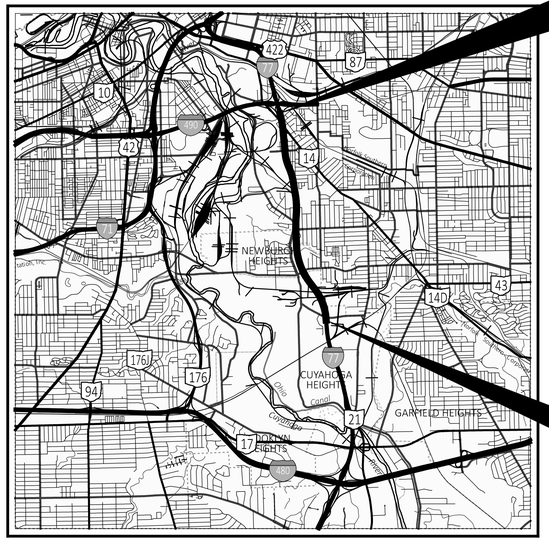

LOCATION MAP

LATITUDE: 41°27'20" LONGITUDE: 81°39'17"

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

CUY-77-11.41 PART 1

CITY OF CLEVELAND
VILLAGE OF CUYAHOGA HEIGHTS
VILLAGE OF NEWBURGH HEIGHTS
CUYAHOGA COUNTY

FOR PART 2, SEE CUY-77-11.41 PART 2

PORTION TO BE IMPROVED
INTERSTATE HIGHWAY
FEDERAL ROUTES
STATE ROUTES
COUNTY & TOWNSHIP ROADS
OTHER ROADS

DESIGN DESIGNATION

CURRENT ADT (2025)	*118,000*
DESIGN YEAR ADT (2045)	*126,000*
DESIGN HOURLY VOLUME (2045)	*6,550*
DIRECTIONAL DISTRIBUTION	*52%*
TRUCKS (24 HOUR B&C)	*6%*
DESIGN SPEED	*65 (BEGIN PROJECT TO SLM-13.56)* *60 (SLM-13.56 TO END PROJECT)*
LEGAL SPEED	*60 (BEGIN PROJECT TO SLM-13.56)* *50 (SLM-13.56 TO END PROJECT)*
DESIGN FUNCTIONAL CLASSIFICATION:	*01 INTERSTATE (URBAN)*
NHS PROJECT	*YES*

DESIGN EXCEPTIONS

DESIGN FEATURE	*APPROVAL*	*SHEET NUMBER*
SHOULDER WIDTHS	*6/2/2022*	*P.22-P.23*

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:

TRC
781 Science Boulevard, Suite 200
Gahanna, OH 43230

ENGINEER'S SEAL:

SIGNED:
DATE:

ENGINEER'S SEAL:

SIGNED:
DATE:

INDEX OF SHEETS:

TITLE SHEET	*P.1-P.2*	*RETAINING WALLS*	
SCHEMATIC PLAN	*P.3-P.13*	*RETAINING WALL 1A*	*P.827-P.842*
HORIZONTAL CONTROL POINTS	*P.14-P.15*	*RETAINING WALL 1B*	*P.843-P.852*
TYPICAL SECTIONS	*P.16-P.24*	*RETAINING WALL 1C*	*P.853-P.866*
GENERAL NOTES	*P.25-P.25A, P.26-P.27*	*RETAINING WALL 1D*	*P.867-P.892*
MAINTENANCE OF TRAFFIC	*P.28-P.273*	*RETAINING WALL 2A*	*P.893-P.898*
GENERAL SUMMARY	*P.274-P.281A*	*RETAINING WALL 2*	*P.899-P.912*
ROADWAY SUBSUMMARY	*P.282-P.284*	*RETAINING WALL 3*	*P.913-P.926*
EARTHWORK SUBSUMMARY	*P.285-P.286*	*RETAINING WALL 4*	*P.927-P.936*
PAVEMENT SUBSUMMARY	*P.287-P.292*	*RETAINING WALL 5A*	*P.937-P.959*
PLAN AND PROFILE		*RETAINING WALL 5B*	*P.960-P.972*
I.R. 77	*P.293-P.309*	*RETAINING WALL 5C*	*P.973-P.976*
RAMPS	*P.310-P.337*	*RETAINING WALL 6*	*P.977-P.991*
MUP	*P.338-P.349*	*RETAINING WALL 7*	*P.992-P.999*
CROSS-SECTIONS		*MOMENT SLABS*	*P.1000-P.1008*
I.R. 77	*P.350-P.496*	*SANITARY SEWER*	*P.1009-P.1010*
RAMPS	*P.497-P.573*	*WATER WORK*	*P.1011-P.1026*
MUP	*P.574-P.640*	*TRAFFIC CONTROL*	*P.1027-P.1091*
SUPERELEVATION TABLE	*P.641-P.653*	*ITS PLAN*	*P.1092-P.1110*
INTERCHANGE DETAILS	*P.654-P.675*	*LIGHTING*	*P.1111-P.1134*
INTERSECTION DETAILS	*P.676-P.678*	*STRUCTURES (20 FOOT SPAN AND UNDER)*	
PAVEMENT DETAILS	*P.679-P.687*	*CUY-77-1322*	*P.1135-P.1144*
CURB RAMP DETAILS	*P.688-P.697*	*STRUCTURES (OVER 20 FOOT SPAN)*	
REMOVAL DETAILS	*P.698*	*CUY-77-1322*	*P.1145-P.1159*
PLAN INSERT SHEET	*P.698A*	*CUY-77-1297*	*P.1160*
DRAINAGE DETAILS	*P.699-P.787*	*CUY-77-1331*	*P.1161-P.1172*
STORM SEWER PROFILES	*P.788-P.826*	*FENCING PLAN*	*P.1173-P.1184*
		GEOTECHNICAL PROFILE - ROADWAY	*P.1185-P.1269*

REFER TO SHEET P.2 FOR STANDARD CONSTRUCTION DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

FEDERAL PROJECT NUMBER

E191575

RAILROAD INVOLVEMENT

N/A

PROJECT DESCRIPTION

THE CUY-77 MAJOR REHABILITATION PROJECT WILL REPLACE THE PAVEMENT OF IR-77 FROM SOUTH OF GRANT AVENUE TO BROADWAY AVENUE (SR-14) IN THE VILLAGES OF NEWBURGH AND CUYAHOGA HEIGHTS AND THE CITY OF CLEVELAND. WORK INCLUDES REPLACING THE IR-77 BRIDGE OVER MORGANA RUN, DRAINAGE SYSTEM REPLACEMENT, AND LIGHTING REPLACEMENT.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	*72.97 ACRES*
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	*1.33 ACRES*
NOTICE OF INTENT EARTH DISTURBED AREA:	*74.30 ACRES*

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

MOT ENDORSEMENT

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT FOR SERVICE INTERCHANGE RAMPS ALONG THE CORRIDOR AS DESCRIBED ON THE MAINTENANCE OF TRAFFIC SHEETS AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH IN THE PLANS AND ESTIMATES.

John Picuri, P.E., P.S.
12

Pamela Boratyn
Director, Department of Transportation

Preliminary Plans - For Reference Only

TITLE SHEET

DESIGN AGENCY: TRC
DESIGNER: EAP
REVIEWER: KKP 03/14/22
PROJECT ID: 105743
SHEET P.1 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Title Sheet - 1 PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 2:28:04 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GT001.dgn

STANDARD CONSTRUCTION DRAWINGS										SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS
BP-1.1	7/28/00	RM-1.1	1/16/26	HL-30.22	1/17/25	TC-73.20	1/16/26	ITS-10.10	1/17/25	800	1/16/26	
BP-2.1	1/21/22	RM-3.1	7/20/18	HL-30.31	7/18/25	TC-74.10	1/16/26	ITS-10.11	7/18/25	804	1/16/26	
BP-2.2	1/16/26	RM-4.1	1/17/20	HL-30.41	1/17/25	TC-83.20	1/16/26	ITS-11.10	1/17/25	807	1/17/25	
BP-3.1	1/19/24	RM-4.2	1/16/26	HL-40.20	7/18/25	TC-85.10	1/16/26	ITS-12.10	1/16/26	808	7/19/24	
BP-3.2	1/18/19	RM-4.3	7/18/25	HL-50.11	1/16/15			ITS-14.10	1/17/25	809	1/16/26	
BP-4.1	7/19/13	RM-4.4	1/17/25	HL-50.21	1/16/26	MT-95.30	7/18/25	ITS-14.11	1/16/26	813	7/21/23	
BP-5.1	1/16/26	RM-4.5	1/16/26	HL-60.11	7/21/17	MT-95.31	7/18/25	ITS-14.50	7/18/25	821	4/20/12	
BP-6.1	7/19/13	RM-4.6	7/18/25	HL-60.31	1/16/26	MT-95.40	7/18/25	ITS-14.60	1/16/26	825	7/19/24	
BP-7.1	1/16/26					MT-95.41	7/18/25	ITS-15.10	1/16/26	829	1/20/17	
BP-8.2	1/18/19	I-2A	7/19/24	TC-12.31	1/16/26	MT-95.45	7/21/23	ITS-15.11	1/16/26	832	7/18/25	
BP-9.1	1/18/19	I-3B,3B1	1/17/25	TC-15.116	1/16/26	MT-95.70	7/21/23	ITS-30.11	1/16/26	836	1/19/24	
		I-3C,3C1	1/17/25	TC-21.11	1/16/26	MT-95.72	7/19/24	ITS-30.12	1/16/26	839	7/16/21	
CB-2-2B	7/19/24	I-3D	7/19/24	TC-21.21	7/18/25	MT-97.10	7/18/25	ITS-30.13	1/16/26	867	4/15/22	
CB-2-3,2-4	7/19/24			TC-21.50	1/16/26	MT-98.10	1/17/20	ITS-50.10	1/16/26	874	4/17/20	
CB-2-5,2-6	7/19/24	MH-3	7/19/24	TC-22.10	1/17/25	MT-98.11	1/17/20	ITS-50.11	7/18/25	875	1/17/25	
CB-3	1/16/26	MH-5	7/19/24	TC-22.20	7/18/25	MT-98.20	4/19/19	ITS-50.12	7/19/24	878	1/16/26	
CB-3A	1/16/26			TC-41.10	1/16/26	MT-98.21	7/21/23			895	4/18/14	
CB-5	7/19/24	DM-1.1	1/17/25	TC-41.20	10/18/13	MT-98.22	1/17/20	AS-2-15	7/21/23	896	7/21/17	
CB-6	7/19/24	DM-1.2	1/17/25	TC-41.30	4/21/23	MT-98.28	1/17/20	EXJ-6-17	1/19/24	904	7/15/22	
CB-8	7/19/24	DM-1.3	7/18/14	TC-41.40	1/16/26	MT-98.29	1/17/20	HW-2.1	7/15/22	908	1/17/25	
		DM-2.1	1/18/13	TC-41.50	10/18/13	MT-98.30	7/18/25	HW-2.2	7/20/18	909	1/16/26	
F-1.1	7/18/25	DM-4.1	7/17/20	TC-42.10	10/18/13	MT-99.20	4/19/19	PCB-91	7/17/20	913	4/16/21	
F-3.1	7/19/13	DM-4.2	7/20/12	TC-42.20	10/18/13	MT-99.30	1/17/20	SBR-1-20	7/19/24	921	7/19/24	
F-3.3	7/19/13	DM-4.3	1/15/16	TC-51.11	7/18/25	MT-99.50	7/18/25	VPF-1-24	1/17/25	929	7/21/23	
F-3.4	7/19/13	DM-4.4	1/15/16	TC-52.10	10/18/13	MT-99.60	7/19/24			939	1/17/20	
				TC-52.20	1/15/21	MT-100.00	1/19/24			996	7/21/23	
MGS-2.1	1/16/26	HL-10.11	1/16/26	TC-61.10	4/21/23	MT-101.60	1/17/25					
MGS-3.1	1/16/26	HL-10.12	1/16/26	TC-61.30	7/19/24	MT-101.70	7/19/24					
MGS-3.2	7/18/25	HL-10.13	1/20/23	TC-64.10	1/16/26	MT-101.75	7/21/23					
MGS-4.2	7/18/25	HL-20.11	1/16/26	TC-65.10	1/17/14	MT-101.80	1/17/20					
MGS-5.2	7/15/16	HL-20.13	7/18/25	TC-65.11	1/17/25	MT-101.90	7/17/20					
MGS-5.3	7/15/16	HL-30.11	1/16/26	TC-71.10	1/16/26	MT-102.10	7/21/23					
MGS-6.1	1/19/18	HL-30.21	4/17/20	TC-72.20	1/16/26	MT-102.20	4/19/19					
						MT-102.30	10/16/15					
						MT-103.10	7/18/25					
						MT-104.10	1/19/24					
						MT-105.10	1/17/20					
						MT-110.10	7/19/13					

Preliminary Plans - For Reference Only

TITLE SHEET

DESIGN AGENCY
TRC

DESIGNER
NRE

REVIEWER
KKP 03/14/22

PROJECT ID
105743

SHEET P.2 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Title Sheet 2 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:32:13 AM USER: kperkins
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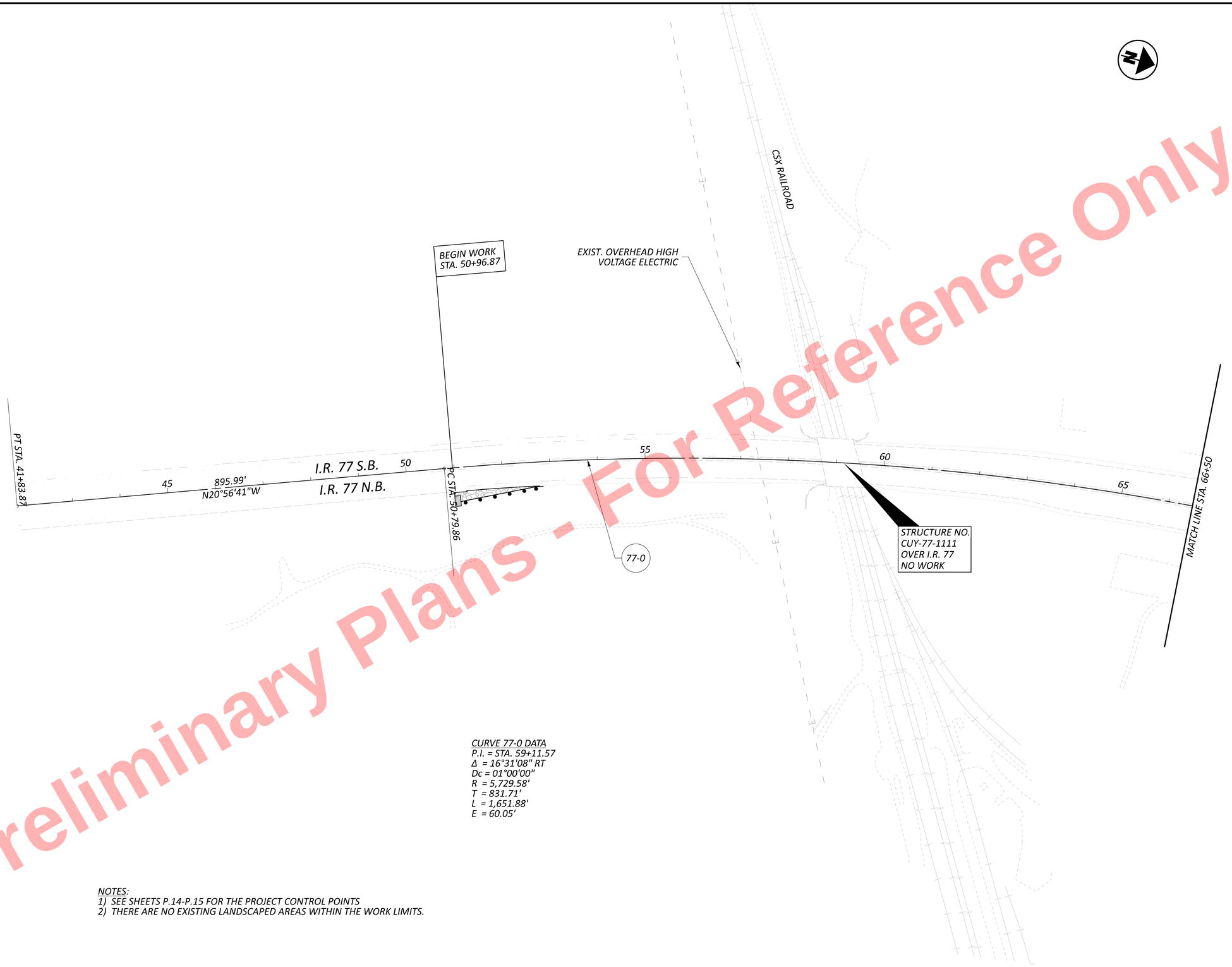

CURVE 77-0 DATA
P.I. = STA. 59+11.57
Δ = 16°31'08" RT
Dc = 01°00'00"
R = 5,729.58'
T = 831.71'
L = 1,651.88'
E = 60.05'

NOTES:
1) SEE SHEETS P.14-P.15 FOR THE PROJECT CONTROL POINTS
2) THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 50 100 200

SCHEMATIC PLAN
BEGIN TO STA. 66+50.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
KKP 07/18/25

PROJECT ID
105743

SHEET P.3 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077_South - Plan 1a-2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:15:33 PM USER: kperkins
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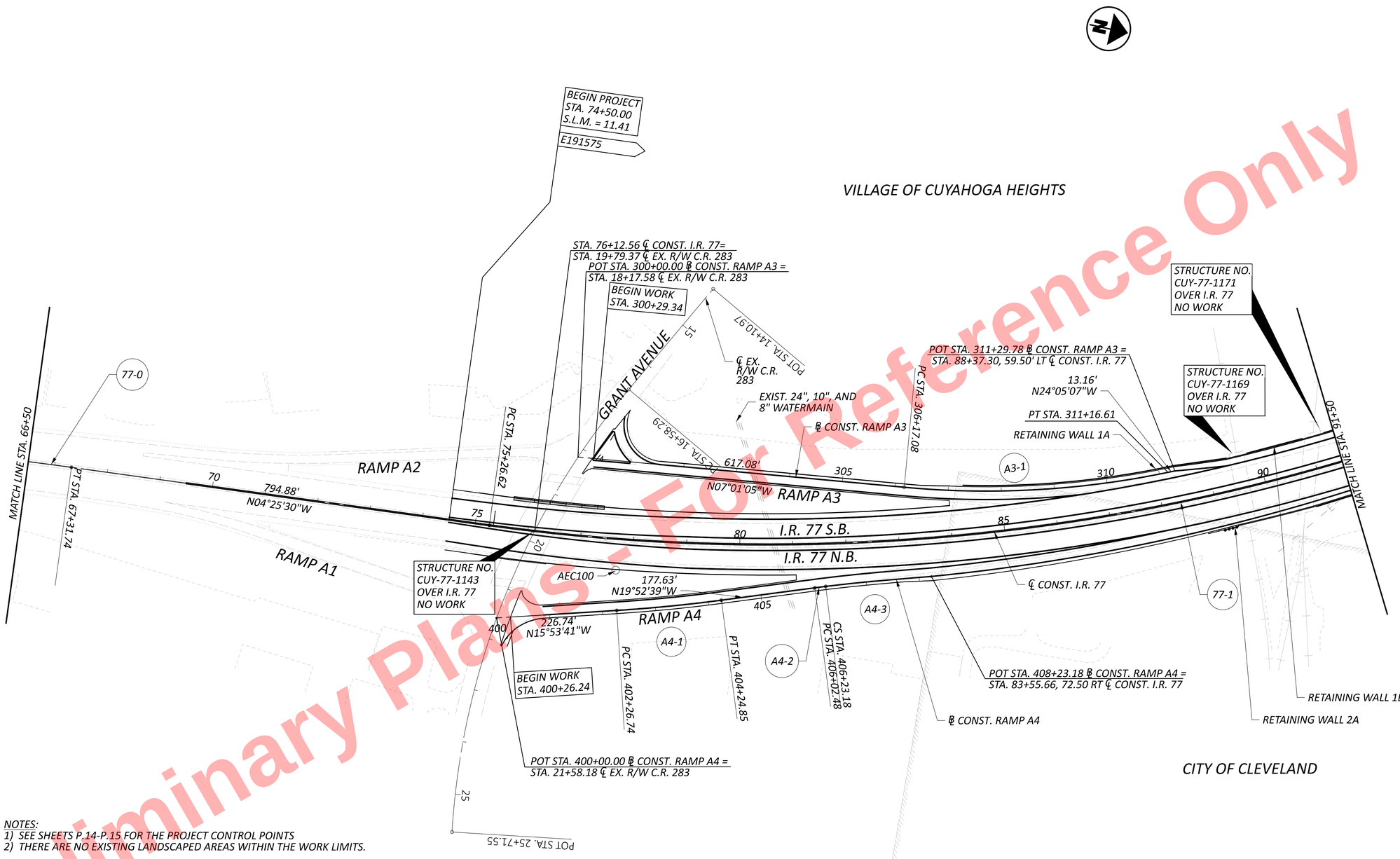

Preliminary Plans - For Reference Only

NOTES:
1) SEE SHEETS P.14-P.15 FOR THE PROJECT CONTROL POINTS
2) THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.

CURVE 77-0 DATA
P.I. = STA. 59+11.57
Δ = 16°31'08" RT
Dc = 01°00'00"
R = 5,729.58'
T = 831.71'
L = 1,651.88'
E = 60.05'

CURVE A3-1 DATA
P.I. = STA. 308+68.71
Δ = 17°04'02" LT
Dc = 03°25'00"
R = 1,676.95'
T = 251.63'
L = 499.53'
E = 18.77'

CURVE A4-1 DATA
P.I. = STA. 403+25.84
Δ = 03°58'58" LT
Dc = 02°00'37"
R = 2,850.00'
T = 99.10'
L = 198.11'
E = 1.72'

CURVE A4-2 DATA
P.I. = STA. 406+12.83
Δ = 00°31'02" RT
Dc = 02°29'59"
R = 2,292.00'
T = 10.35'
L = 20.69'
E = .02'

SPIRAL A4-3 DATA
P.I. = STA. 406+89.85
Ls = 200.00'
ϑs = 02°29'59"
LT = 133.35'
ST = 66.68'
x = 199.90'
y = 5.82'
k = 99.99'
p = 0.73'
C = 199.98'
Start = Sta. 406+23.18
End = Sta. 400+00.00
C.B. = N17°41'37"W

CURVE 77-1 DATA
P.I. = STA. 86+50.82
Δ = 32°47'59" LT
Dc = 01°30'00"
R = 3,819.72'
T = 1,124.19'
L = 2,186.64'
E = 162.00'

HORIZONTAL
SCALE IN FEET
0 50 100 200

SCHEMATIC PLAN
STA. 66+50.00 TO STA. 91+50.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
KKP 07/18/25

PROJECT ID
105743

SHEET P.4 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 1a-3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:15:38 PM USER: kperkins
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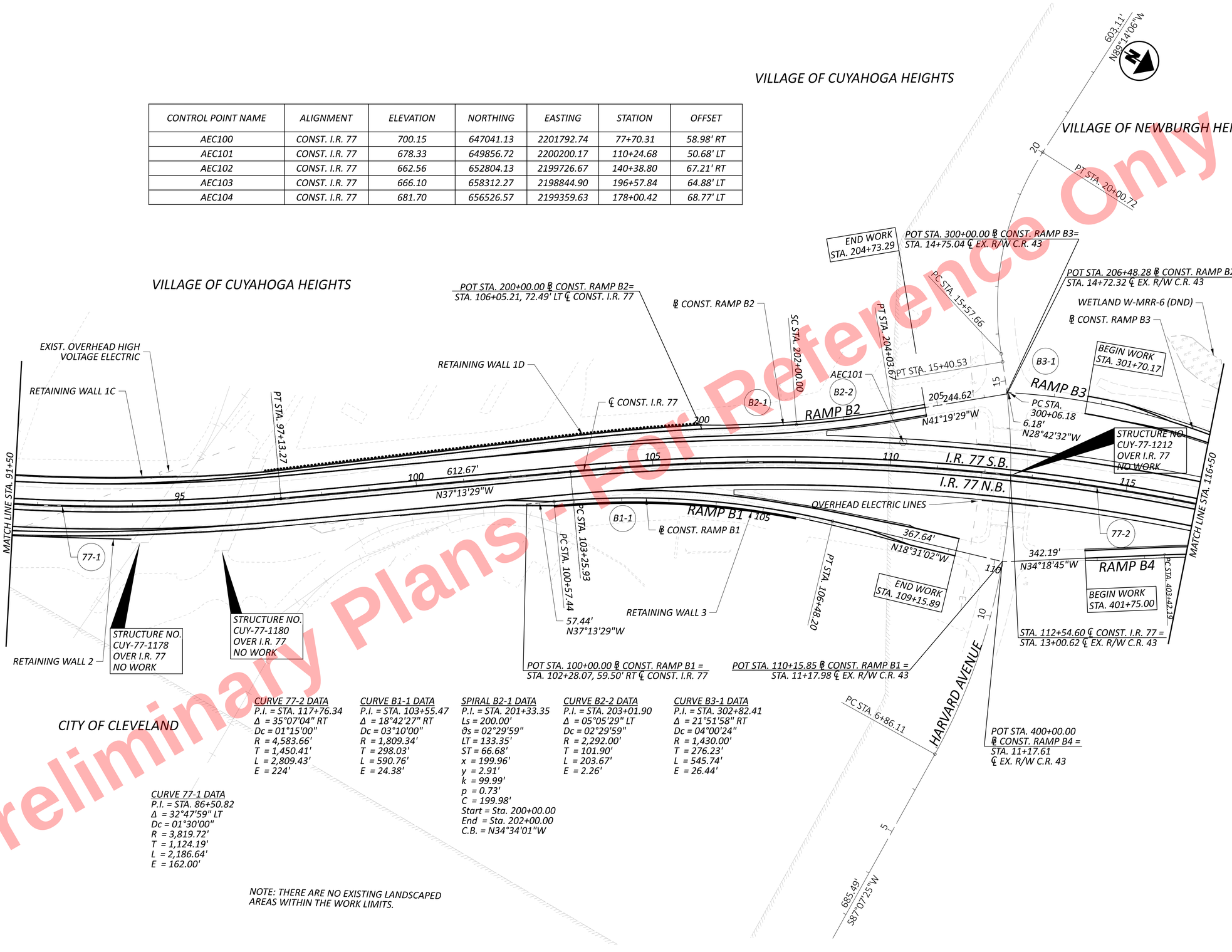
CONTROL POINT NAME	ALIGNMENT	ELEVATION	NORTHING	EASTING	STATION	OFFSET
AEC100	CONST. I.R. 77	700.15	647041.13	2201792.74	77+70.31	58.98' RT
AEC101	CONST. I.R. 77	678.33	649856.72	2200200.17	110+24.68	50.68' LT
AEC102	CONST. I.R. 77	662.56	652804.13	2199726.67	140+38.80	67.21' RT
AEC103	CONST. I.R. 77	666.10	658312.27	2198844.90	196+57.84	64.88' LT
AEC104	CONST. I.R. 77	681.70	656526.57	2199359.63	178+00.42	68.77' LT



CURVE 77-1 DATA
P.I. = STA. 86+50.82
Δ = 32°47'59" LT
Dc = 01°30'00"
R = 3,819.72'
T = 1,124.19'
L = 2,186.64'
E = 162.00'

CURVE 77-2 DATA
P.I. = STA. 117+76.34
Δ = 35°07'04" RT
Dc = 01°15'00"
R = 4,583.66'
T = 1,450.41'
L = 2,809.43'
E = 224'

CURVE B1-1 DATA
P.I. = STA. 103+55.47
Δ = 18°42'27" RT
Dc = 03°10'00"
R = 1,809.34'
T = 298.03'
L = 590.76'
E = 24.38'

SPIRAL B2-1 DATA
P.I. = STA. 201+33.35
Ls = 200.00'
ϑs = 02°29'59"
LT = 133.35'
ST = 66.68'
x = 199.96'
y = 2.91'
k = 99.99'
p = 0.73'
C = 199.98'
Start = Sta. 200+00.00
End = Sta. 202+00.00
C.B. = N34°34'01"W

CURVE B2-2 DATA
P.I. = STA. 203+01.90
Δ = 05°05'29" LT
Dc = 02°29'59"
R = 2,292.00'
T = 101.90'
L = 203.67'
E = 2.26'

CURVE B3-1 DATA
P.I. = STA. 302+82.41
Δ = 21°51'58" RT
Dc = 04°00'24"
R = 1,430.00'
T = 276.23'
L = 545.74'
E = 26.44'

NOTE: THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 50 100 200

SCHEMATIC PLAN
STA. 91+50.00 TO STA. 116+50.00

DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER KKP 07/18/25
PROJECT ID 105743
SHEET P.5 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 1a-4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:15:39 PM USER: kperkins
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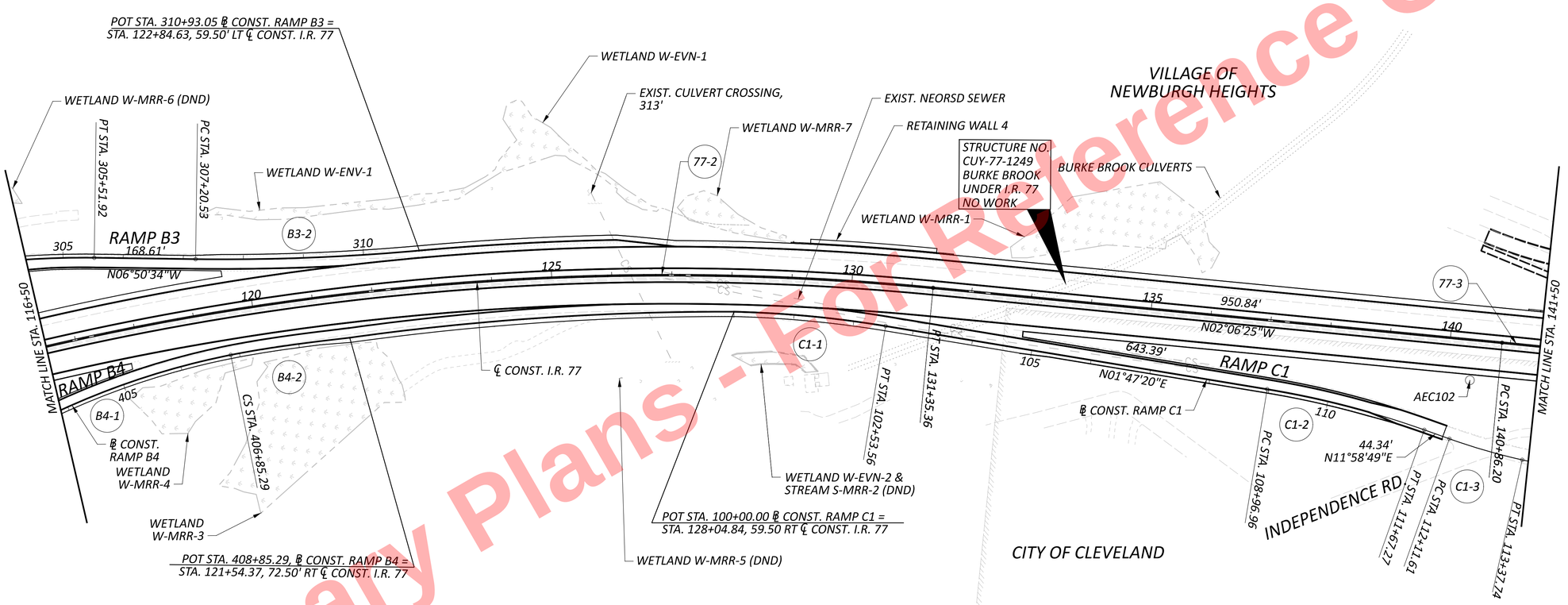


NOTES:
1) SEE SHEETS P.14-P.15 FOR THE PROJECT CONTROL POINTS
2) THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.

CURVE B3-2 DATA
P.I. = STA. 309+06.95
Δ = 05°53'53" LT
Dc = 01°35'00"
R = 3,618.68'
T = 186.42'
L = 372.52'
E = 4.80'

CURVE B4-1 DATA
P.I. = STA. 405+14.78
Δ = 15°26'33" RT
Dc = 04°30'03"
R = 1,273.00'
T = 172.6'
L = 343.1'
E = 11.65'

SPIRAL B4-2 DATA
P.I. = STA. 407+51.99
Ls = 200.00'
ϑs = 04°30'03"
LT = 133.38'
ST = 66.71'
x = 199.67'
y = 10.47'
k = 99.98'
p = 1.31'
C = 199.95'
Start = Sta. 406+85.29
End = Sta. 408+85.29
C.B. = N15°52'10"W

CURVE 77-2 DATA
P.I. = STA. 117+76.34
Δ = 35°07'04" RT
Dc = 01°15'00"
R = 4,583.66'
T = 1,450.41'
L = 2,809.43'
E = 224'

CURVE 77-3 DATA
P.I. = STA. 144+13.27
Δ = 04°54'11" RT
Dc = 00°45'00"
R = 7,639.44'
T = 327.07'
L = 653.74'
E = 7'

CURVE C1-1 DATA
P.I. = STA. 101+27.03
Δ = 08°01'37" RT
Dc = 03°10'00"
R = 1,809.34'
T = 126.95'
L = 253.48'
E = 4.45'

CURVE C1-2 DATA
P.I. = STA. 110+32.47
Δ = 10°11'29" RT
Dc = 03°46'13"
R = 1,519.70'
T = 135.52'
L = 270.32'
E = 6.03'

CURVE C1-3 DATA
P.I. = STA. 112+74.75
Δ = 06°55'22" LT
Dc = 05°29'18"
R = 1,043.93'
T = 63.14'
L = 126.13'
E = 1.91'

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 50 100 200

SCHEMATIC PLAN
STA. 116+50.00 TO STA. 141+50.00

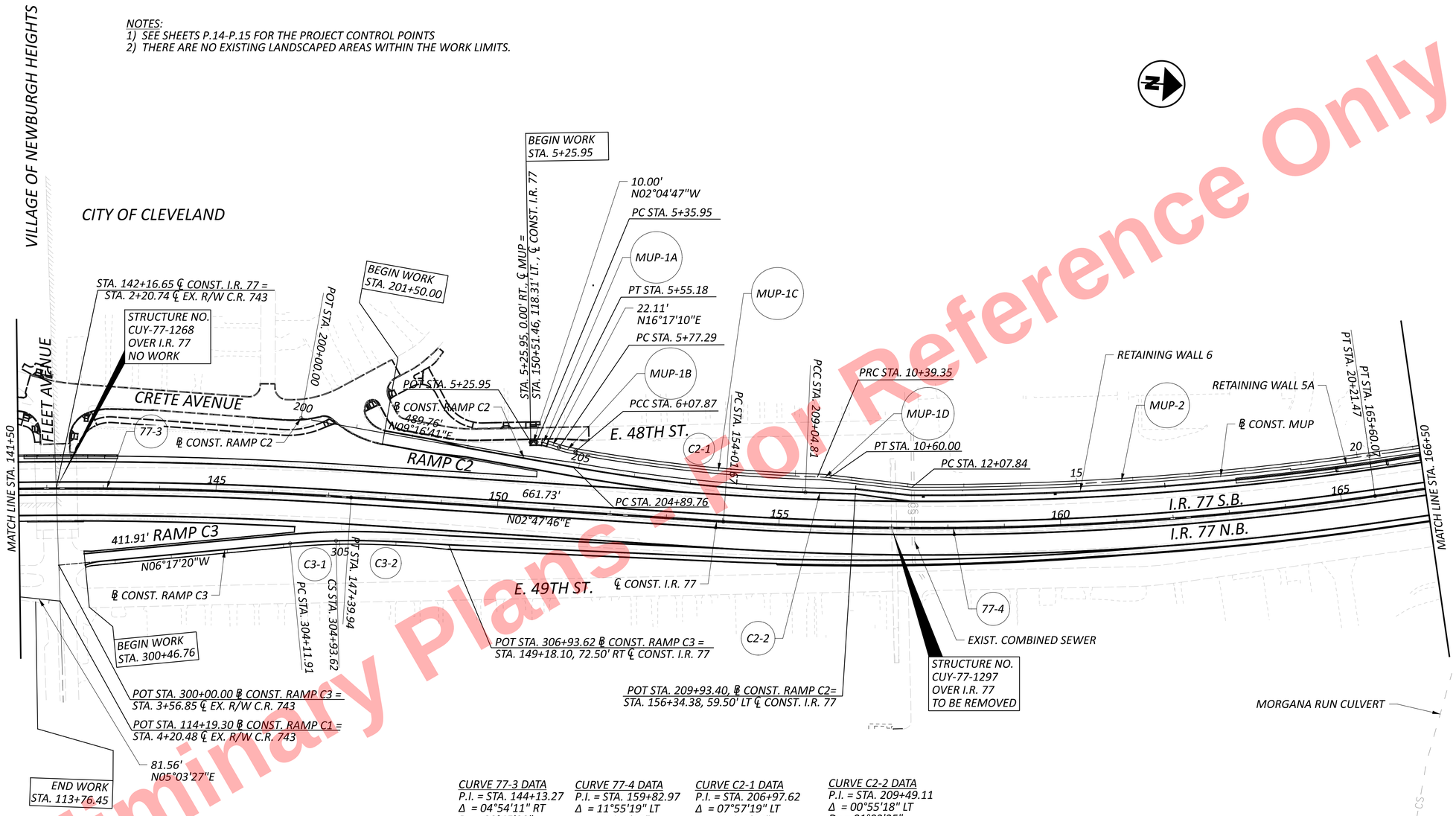
DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER KKP 07/18/25
PROJECT ID 105743
SHEET P.6 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 1a-5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:15:40 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GB001.dgn

NOTES:
1) SEE SHEETS P.14-P.15 FOR THE PROJECT CONTROL POINTS
2) THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.



CURVE 77-3 DATA
P.I. = STA. 144+13.27
Δ = 04°54'11" RT
Dc = 00°45'00"
R = 7,639.44'
T = 327.07'
L = 653.74'
E = 7'

CURVE 77-4 DATA
P.I. = STA. 159+82.97
Δ = 11°55'19" LT
Dc = 01°01'45"
R = 5,567.12'
T = 581.30'
L = 1,158.40'
E = 30.27'

CURVE C2-1 DATA
P.I. = STA. 206+97.62
Δ = 07°57'19" LT
Dc = 01°55'00"
R = 2,989.35'
T = 207.86'
L = 415.06'
E = 7.22'

CURVE C2-2 DATA
P.I. = STA. 209+49.11
Δ = 00°55'18" LT
Dc = 01°02'25"
R = 5,507.62'
T = 44.29'
L = 88.59'
E = 0.18'

CURVE C3-1 DATA
P.I. = STA. 304+52.78
Δ = 04°05'07" RT
Dc = 04°59'59"
R = 1,146.00'
T = 40.87'
L = 81.71'
E = .73'

SPIRAL C3-2 DATA
P.I. = STA. 305+60.34
Ls = 200.00'
ϑs = 04°59'59"
LT = 133.39'
ST = 66.72'
x = 199.59'
y = 11.62'
k = 99.97'
p = 1.45'
C = 199.93'
Start = Sta. 304+93.62
End = Sta. 306+93.62
C.B. = N01°07'47"E

CURVE MUP-2 DATA
P.I. = STA. 16+15.40
Δ = 08°29'03" LT
Dc = 01°02'34"
R = 5,494.67'
T = 407.56'
L = 813.63'
E = 15.09'

Preliminary Plans - Not for Construction
Reference Only

HORIZONTAL SCALE IN FEET
0 50 100 200

SCHEMATIC PLAN
STA. 141+50.00 TO STA. 166+50.00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 1a-6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:15:42 PM USER: kperkins
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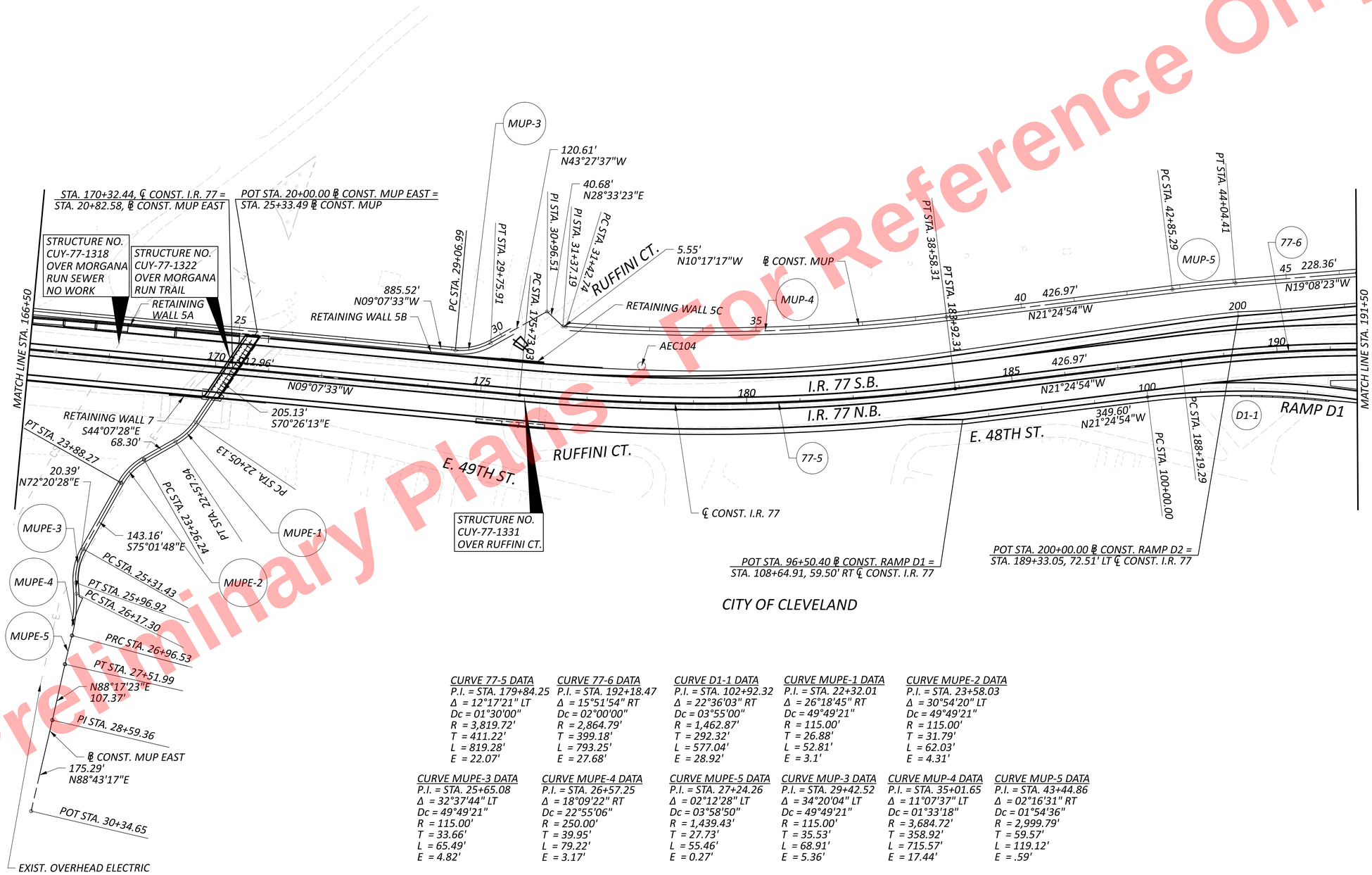
DESIGN AGENCY: HNTB
DESIGNER: KMM
REVIEWER: KKP 07/18/25
PROJECT ID: 105743
SHEET: P.7 TOTAL: P.1269

NOTES:
1) SEE SHEETS P.14-P.15 FOR THE PROJECT CONTROL POINTS
2) THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.



Preliminary Plans - For Reference Only

CURVE 77-5 DATA
P.I. = STA. 179+84.25
Δ = 12°17'21" LT
Dc = 01°30'00"
R = 3,819.72'
T = 411.22'
L = 819.28'
E = 22.07'

CURVE 77-6 DATA
P.I. = STA. 192+18.47
Δ = 15°51'54" RT
Dc = 02°00'00"
R = 2,864.79'
T = 399.18'
L = 793.25'
E = 27.68'

CURVE D1-1 DATA
P.I. = STA. 102+92.32
Δ = 22°36'03" RT
Dc = 03°55'00"
R = 1,462.87'
T = 292.32'
L = 577.04'
E = 28.92'

CURVE MUPE-1 DATA
P.I. = STA. 22+32.01
Δ = 26°18'45" RT
Dc = 49°49'21"
R = 115.00'
T = 26.88'
L = 52.81'
E = 3.1'

CURVE MUPE-2 DATA
P.I. = STA. 23+58.03
Δ = 30°54'20" LT
Dc = 49°49'21"
R = 115.00'
T = 31.79'
L = 62.03'
E = 4.31'

CURVE MUPE-3 DATA
P.I. = STA. 25+65.08
Δ = 32°37'44" LT
Dc = 49°49'21"
R = 115.00'
T = 33.66'
L = 65.49'
E = 4.82'

CURVE MUPE-4 DATA
P.I. = STA. 26+57.25
Δ = 18°09'22" RT
Dc = 22°55'06"
R = 250.00'
T = 39.95'
L = 79.22'
E = 3.17'

CURVE MUPE-5 DATA
P.I. = STA. 27+24.26
Δ = 02°12'28" LT
Dc = 03°58'50"
R = 1,439.43'
T = 27.73'
L = 55.46'
E = 0.27'

CURVE MUP-3 DATA
P.I. = STA. 29+42.52
Δ = 34°20'04" LT
Dc = 49°49'21"
R = 115.00'
T = 35.53'
L = 68.91'
E = 5.36'

CURVE MUP-4 DATA
P.I. = STA. 35+01.65
Δ = 11°07'37" LT
Dc = 01°33'18"
R = 3,684.72'
T = 358.92'
L = 715.57'
E = 17.44'

CURVE MUP-5 DATA
P.I. = STA. 43+44.86
Δ = 02°16'31" RT
Dc = 01°54'36"
R = 2,999.79'
T = 59.57'
L = 119.12'
E = .59'

HORIZONTAL SCALE IN FEET
0 50 100 200

SCHEMATIC PLAN
STA. 166+50.00 TO STA. 191+50.00

DESIGN AGENCY: HNTB
DESIGNER: KMM
REVIEWER: KKP 07/18/25
PROJECT ID: 105743
SHEET: P.8 TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 1a-7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:15:43 PM USER: kperkins
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CURVE D1-1 DATA
P.I. = STA. 102+92.32
Δ = 22°36'03" RT
Dc = 03°55'00"
R = 1,462.87'
T = 292.32'
L = 577.04'
E = 28.92'

CURVE D1-2 DATA
P.I. = STA. 108+09.31
Δ = 07°02'06" LT
Dc = 02°40'00"
R = 2,148.59'
T = 132.07'
L = 263.81'
E = 4.06'

CURVE D2-1 DATA
P.I. = STA. 207+09.06
Δ = 13°43'32" RT
Dc = 05°47'31"
R = 989.23'
T = 119.06'
L = 236.98'
E = 7.14'

CURVE MUP-6 DATA
P.I. = STA. 49+37.51
Δ = 12°31'39" RT
Dc = 02°03'49"
R = 2,776.44'
T = 304.74'
L = 607.05'
E = 16.67'

CURVE 77-6 DATA
P.I. = STA. 192+18.47
Δ = 15°51'54" RT
Dc = 02°00'00"
R = 2,864.79'
T = 399.18'
L = 793.25'
E = 27.68'

CURVE 77-7 DATA
P.I. = STA. 218+10.24
Δ = 09°36'34" LT
Dc = 01°00'00"
R = 5,729.58'
T = 481.61'
L = 960.96'
E = 20.21'

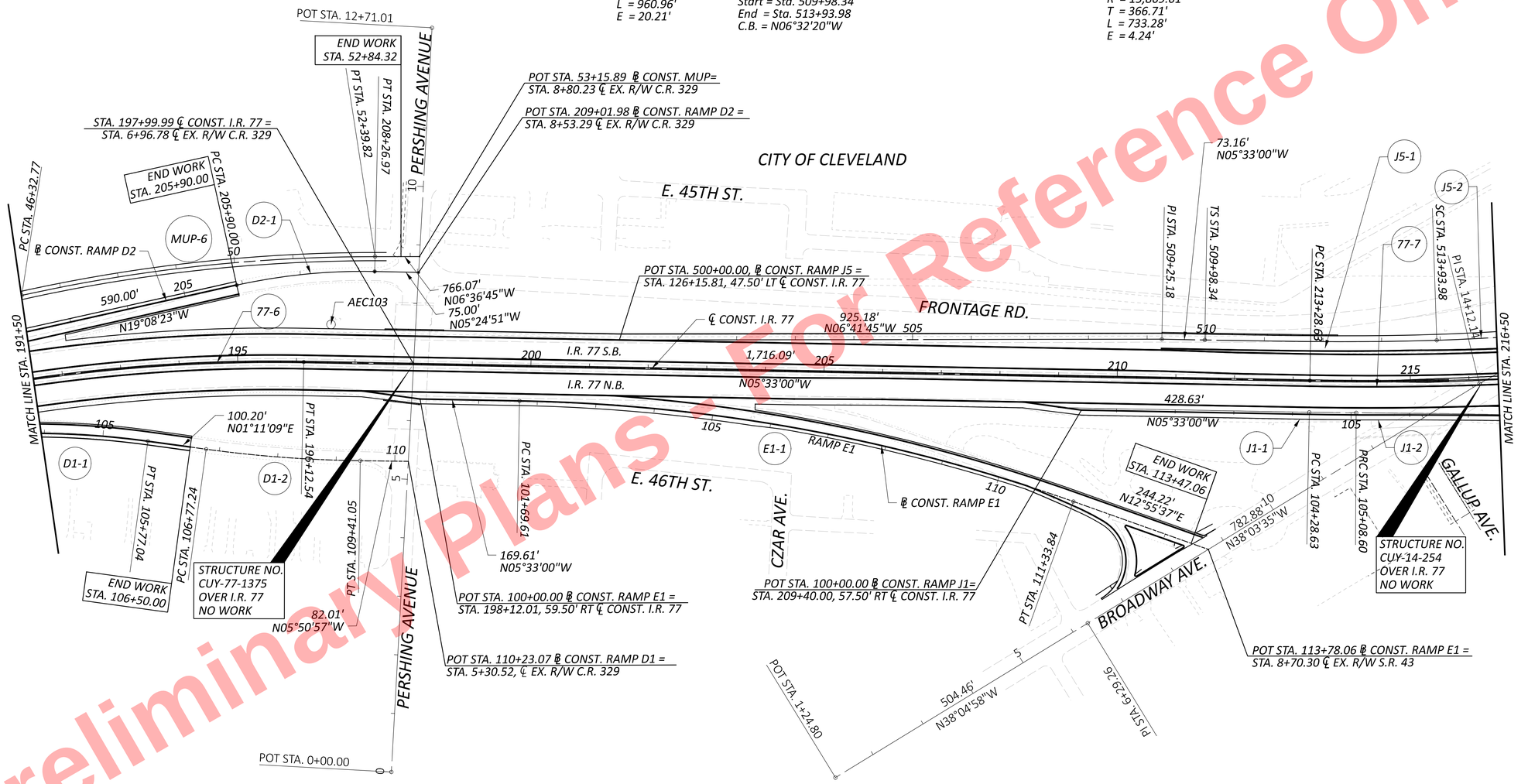
SPIRAL J5-1 DATA
P.I. = STA. 512+62.14
Ls = 395.63'
ϑs = 02°58'02"
LT = 263.79'
ST = 131.91'
x = 395.53'
y = 6.83'
k = 197.80'
p = 1.71'
C = 395.58'
Start = Sta. 509+98.34
End = Sta. 513+93.98
C.B. = N06°32'20"W

CURVE J5-2 DATA
P.I. = STA. 514+98.77
Δ = 03°08'35" LT
Dc = 01°30'00"
R = 3,819.72'
T = 104.80'
L = 209.54'
E = 1.44'

CURVE E1-1 DATA
P.I. = STA. 106+55.95
Δ = 18°28'37" RT
Dc = 01°54'58"
R = 2,990.00'
T = 486.34'
L = 964.23'
E = 39.29'

CURVE J1-1 DATA
P.I. = STA. 104+68.62
Δ = 00°47'32" LT
Dc = 00°59'26"
R = 5,783.58'
T = 39.99'
L = 79.97'
E = 0.14'

CURVE J1-2 DATA
P.I. = STA. 108+75.31
Δ = 02°38'51" RT
Dc = 00°21'40"
R = 15,869.61'
T = 366.71'
L = 733.28'
E = 4.24'



NOTES:
1) SEE SHEETS P.14-P.15 FOR THE PROJECT CONTROL POINTS
2) THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.

Preliminary Plans - Not For Reference Only

HORIZONTAL SCALE IN FEET
0 50 100 200

SCHEMATIC PLAN
STA. 191+50.00 TO STA. 216+50.00

DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER KKP 07/18/25
PROJECT ID 105743
SHEET P.9 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 1a-8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:15:44 PM USER: kperkins
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NOTES:
1) SEE SHEETS P.14-P.15 FOR THE PROJECT CONTROL POINTS
2) THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.

END PROJECT
IR-77 SB
STA. 220+83.50
S.L.M. = 14.18

E191575

DILLE AVE

PI STA. 20+00.08

POT STA. 22+00.00

BROADWAY AVE

199.92'
N42°29'01"W

POT STA. 520+93.01

PT STA. 222+89.59

ROSEVILLE CT.

J5-2

PCC STA. 516+03.51

J5-3

587.94'
N35°36'44"W

520

515

RAMP J5

MATCH LINE STA. 216+50

220

I.R. 77 S.B.

225

I.R. 77 N.B.

77-7

110

J1-3

RAMP J1

J1-4

115

SC STA. 112+41.88

CS STA. 117+41.88

POT STA. 116+14.58

LESTER AVE

STRUCTURE NO.
CUY-77-14350-L
OVER I.R. 490
NO WORK

STRUCTURE NO.
CUY-77-14350-R
OVER I.R. 490
NO WORK

I.R. 490 E.B.

I.R. 490 W.B.

230

1,782.86'
N15°09'34"W

235

240

E. 37TH ST

TRUMBULL AVE

PI STA. 240+72.45

MATCH LINE STA. 241+50

CLEVELAND & CUYAHOGA RAILWAY

CURVE 77-7 DATA
P.I. = STA. 218+10.24
Δ = 09°36'34" LT
Dc = 01°00'00"
R = 5,729.58'
T = 481.61'
L = 960.96'
E = 20.21'

CURVE J5-3 DATA
P.I. = STA. 518+50.67
Δ = 19°34'48" LT
Dc = 04°00'00"
R = 1,432.39'
T = 247.16'
L = 489.50'
E = 21.17'

CURVE J1-4 DATA
P.I. = STA. 115+24.57
Δ = 17°33'51" RT
Dc = 09°40'46"
R = 591.94'
T = 91.45'
L = 181.46'
E = 7.02'

SPIRAL J1-3 DATA
P.I. = STA. 113+67.28
Ls = 191.23'
ϑs = 09°36'01"
LT = 125.39'
ST = 66.21'
x = 190.68'
y = 11.04'
k = 91.96'
p = 2.48'
C = 191.00'
Start = Sta. 112+41.88
End = Sta. 114+33.12
C.B. = N00°22'49"W

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 50 100 200

SCHEMATIC PLAN
STA. 216+50.00 TO STA. 241+50.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
KKP 07/18/25

PROJECT ID
105743

SHEET P.10 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 1a-9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:15:45 PM USER: kperkins
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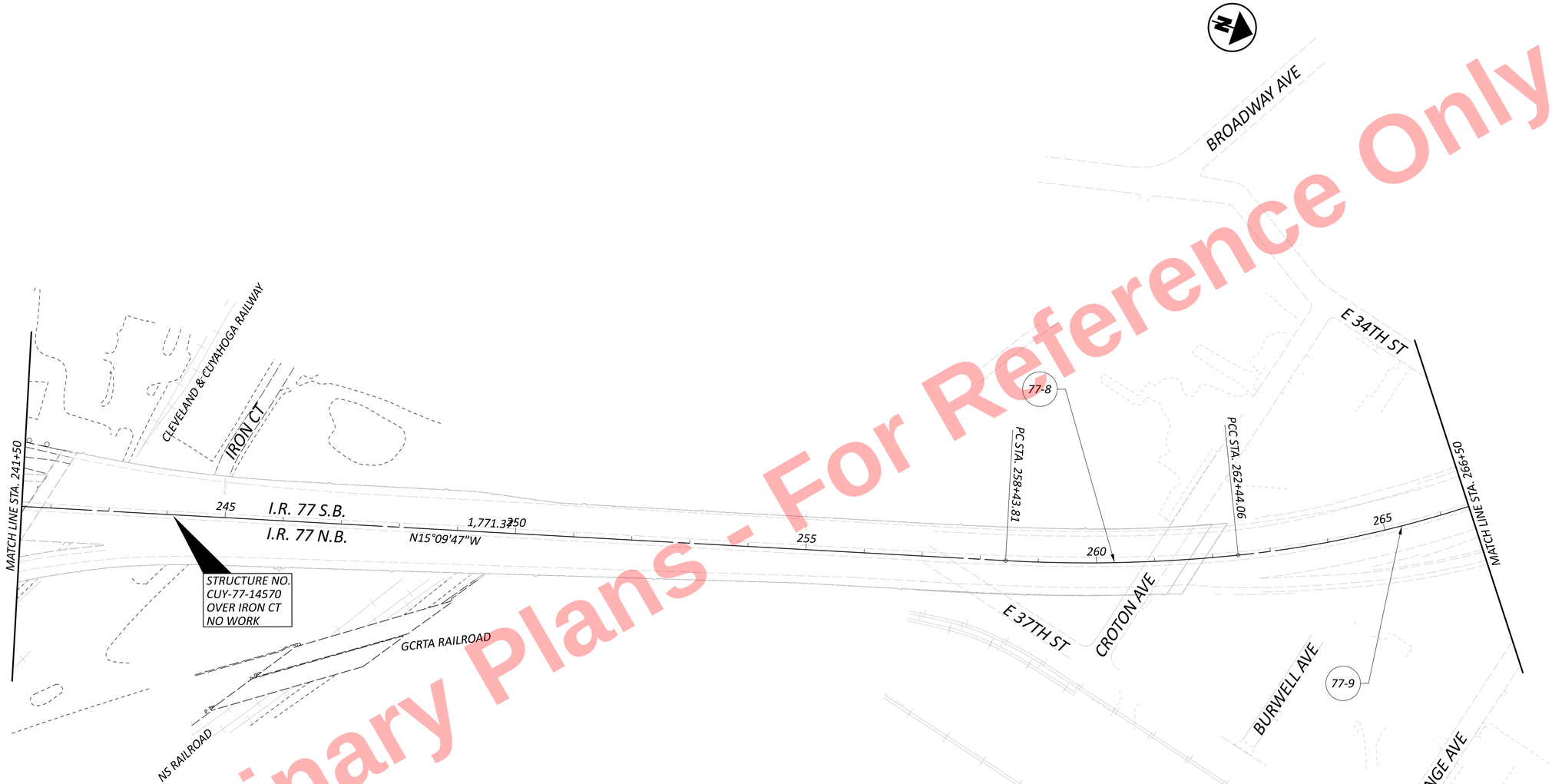
Preliminary Plans - For Reference Only



NOTES:
1) *SEE SHEETS P.14-P.15 FOR THE PROJECT CONTROL POINTS*
2) *THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.*

CURVE 77-8 DATA
P.I. = STA. 260+44.35
Δ = 09°00'20" LT
Dc = 02°15'00"
R = 2,546.48'
T = 200.54'
L = 400.25'
E = 7.88'

CURVE 77-9 DATA
P.I. = STA. 269+77.58
Δ = 41°59'20" LT
Dc = 02°59'51"
R = 1,911.44'
T = 733.52'
L = 1,400.78'
E = 135.91'

HORIZONTAL SCALE IN FEET
0 50 100 200

SCHEMATIC PLAN
STA. 241+50.00 TO STA. 266+50.00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 1a-10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:15:46 PM USER: kperkins
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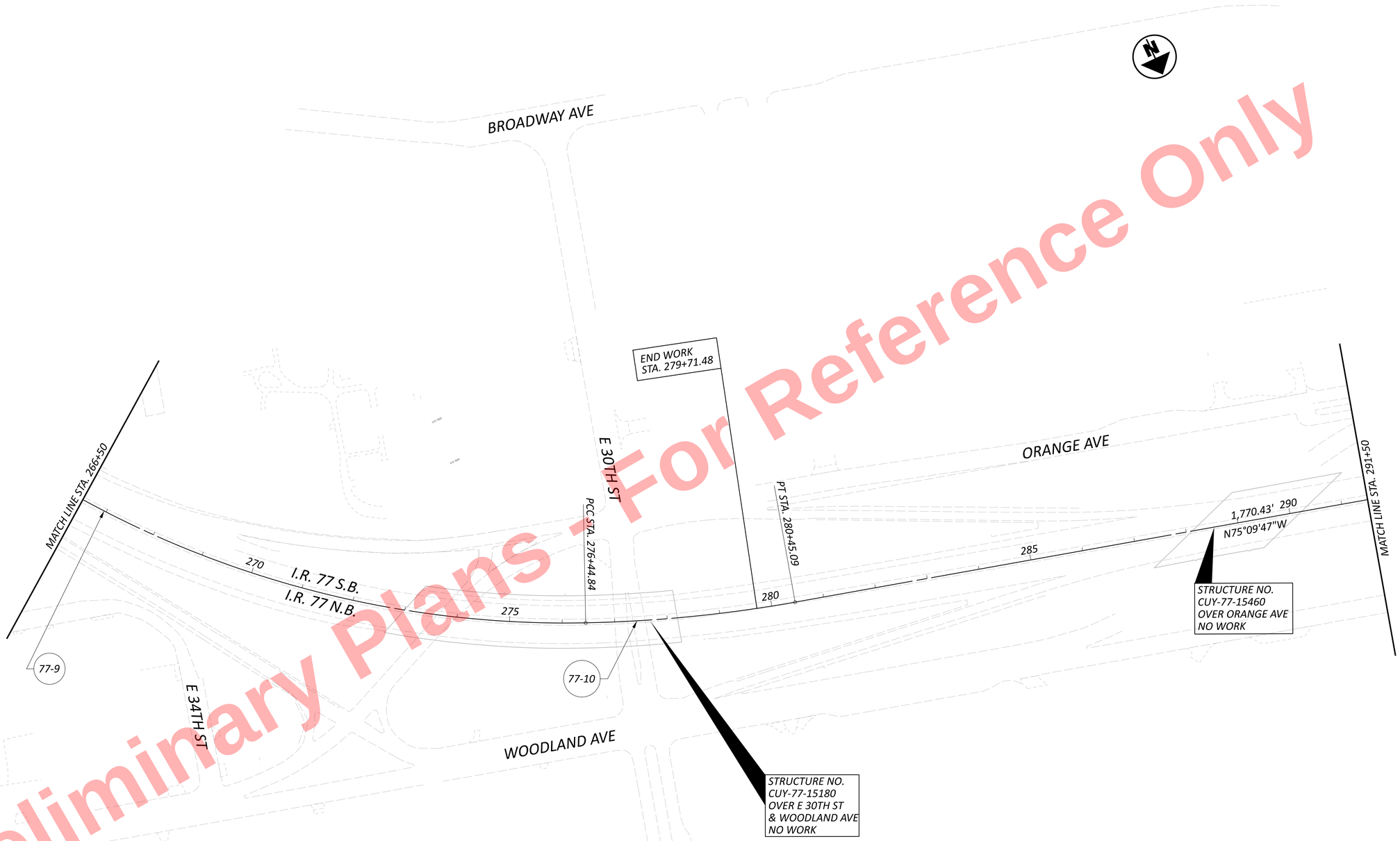
DESIGN AGENCY
HNTB

DESIGNER	KMM
REVIEWER	KKP 07/18/25
PROJECT ID	105743
SHEET	P.11
TOTAL	P.1269

Preliminary Plans - For Reference Only



NOTES:
1) SEE SHEETS P.14-P.15 FOR THE PROJECT CONTROL POINTS
2) THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.

CURVE 77-9 DATA	CURVE 77-10 DATA
P.I. = STA. 269+77.58	P.I. = STA. 278+45.38
Δ = 41°59'20" LT	Δ = 09°00'20" LT
Dc = 02°59'51"	Dc = 02°15'00"
R = 1,911.44'	R = 2,546.48'
T = 733.52'	T = 200.54'
L = 1,400.78'	L = 400.25'
E = 135.91'	E = 7.88'

HORIZONTAL SCALE IN FEET
0 50 100 200

SCHEMATIC PLAN
STA. 266+50.00 TO STA. 291+50.00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 1a-11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:15:47 PM USER: kperkins
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DESIGN AGENCY
HNTB

DESIGNER	KMM
REVIEWER	KKP 07/18/25
PROJECT ID	105743
SHEET	P.12
TOTAL	P.1269

Preliminary Plans - For Reference Only

S BROADWAY AVE

ONTARIO ST

ORANGE AVE

E 14TH ST

E 22ND ST

WOODLAND AVE

I.R. 77 S.B.

I.R. 77 N.B.

MATCH LINE STA. 291+50.00

295

1,770.43'

N75°09'47"W

300

305

PC STA. 298+15.53

77-11

POT STA. 305+81.36

STRUCTURE NO.
CUY-77-15620
OVER E 22ND ST
NO WORK

STRUCTURE NO.
CUY-77-15750
OVER E 14TH ST
NO WORK

I - 90 E.B.

I - 90 W.B.

CURVE 77-11 DATA
P.I. = STA. 302+03.53
Δ = 22°41'36" RT
Dc = 02°57'48"
R = 1,933.55'
T = 388.00'
L = 765.83'
E = 38.55'

NOTES:
1) SEE SHEETS P.14-P.15 FOR THE PROJECT CONTROL POINTS
2) THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.

HORIZONTAL SCALE IN FEET
0 50 100 200

SCHEMATIC PLAN
STA. 291+50.00 TO END

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 1a-12 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:15:47 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_GB001.dgn

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
KKP 07/18/25

PROJECT ID
105743

SHEET P.13 TOTAL P.1269

CURVE	ALIGNMENT	CONTROL POINT	NORTHING	EASTING	STATION	BEARING
77-0	I.R. 77	P.C.	644392.14	2202183.68	50+79.86	N20°56'37"W
77-0	I.R. 77	P.I.	645168.9	2201886.38	59+11.57	
77-0	I.R. 77	P.T.	645998.13	2201822.21	67+31.74	N04°25'30"W
77-1	I.R. 77	P.C.	646790.65	2201760.88	75+26.62	N04°25'30"W
77-1	I.R. 77	P.I.	647911.49	2201674.15	86+50.82	
77-1	I.R. 77	P.T.	648806.65	2200994.08	97+13.27	N37°13'29"W
77-2	I.R. 77	P.C.	649294.49	2200623.45	103+25.93	N37°13'29"W
77-2	I.R. 77	P.I.	650449.41	2199746.04	117+76.34	
77-2	I.R. 77	P.T.	651898.84	2199692.72	131+35.36	N02°06'25"W
77-3	I.R. 77	P.C.	652849.04	2199657.76	140+86.20	N02°06'25"W
77-3	I.R. 77	P.I.	653175.88	2199645.74	144+13.27	
77-3	I.R. 77	P.T.	653502.56	2199661.69	147+39.94	N02°47'46"E
77-4	I.R. 77	P.C.	654163.5	2199693.98	154+01.67	N02°47'46"E
77-4	I.R. 77	P.I.	654744.11	2199722.33	159+82.97	
77-4	I.R. 77	P.T.	655318.05	2199630.14	165+60.07	N09°07'33"W
77-5	I.R. 77	P.C.	656318.19	2199469.48	175+73.03	N09°07'33"W
77-5	I.R. 77	P.I.	656724.21	2199404.26	179+84.25	
77-5	I.R. 77	P.T.	657107.03	2199254.12	183+92.31	N21°24'54"W
77-6	I.R. 77	P.C.	657504.53	2199098.22	188+19.29	N21°24'54"W
77-6	I.R. 77	P.I.	657876.15	2198952.47	192+18.47	
77-6	I.R. 77	P.T.	658273.46	2198913.86	196+12.54	N05°33'00"W
77-7	I.R. 77	P.C.	659981.51	2198747.89	213+28.63	N05°33'00"W
77-7	I.R. 77	P.I.	660460.85	2198701.32	218+10.24	
77-7	I.R. 77	P.T.	660925.7	2198575.37	222+89.59	N15°09'34"W
77-8	I.R. 77	P.C.	664356.22	2197645.81	258+43.82	N15°09'47"W
77-8	I.R. 77	P.I.	664549.78	2197593.36	260+44.35	
77-8	I.R. 77	P.C.C	664732.73	2197511.25	262+44.06	N24°10'07"W
77-9	I.R. 77	P.C.	664732.73	2197511.25	262+44.06	N24°10'07"W
77-9	I.R. 77	P.I.	665401.96	2197210.94	269+77.58	
77-9	I.R. 77	P.C.C.	665698.46	2196540.02	276+44.84	N66°09'27"W
77-10	I.R. 77	P.C.C.	665698.462	2196540.02	276+44.84	N66°09'27"W
77-10	I.R. 77	P.I.	665779.52	2196356.59	278+45.38	
77-10	I.R. 77	P.T.	665830.88	2196162.74	280+45.09	N75°09'47"W
77-11	I.R. 77	P.C.	666284.23	2194451.337	298+15.53	N75°09'47"W
77-11	I.R. 77	P.I.	666383.59	2194076.27	302+03.53	
77-11	I.R. 77	P.O.T.	666619.95	2193768.58	305+81.36	N52°28'10"W
	RAMP A3	P.O.T.	646926.52	2201599.60	300+00.00	N07°01'05"W
A3-1	RAMP A3	P.C.	647538.98	2201524.21	306+17.08	N07°01'05"W
A3-1	RAMP A3	P.I.	647788.73	2201493.46	308+68.71	
A3-1	RAMP A3	P.T.	648018.45	2201390.78	311+16.61	N24°05'07"W
	RAMP A3	P.O.T.	648030.47	2201385.4	311+29.78	N24°05'07"W
	RAMP A4	P.O.T.	646841.22	2201928.51	400+00.00	N15°53'41"W
A4-1	RAMP A4	P.C.	647059.29	2201866.42	402+26.74	N15°53'41"W
A4-1	RAMP A4	P.I.	647154.6	2201839.28	403+25.84	
A4-1	RAMP A4	P.T.	647247.79	2201805.58	404+24.85	N19°52'39"W
A4-2	RAMP A4	P.C.	647414.83	2201745.19	406+02.48	N19°52'39"W
A4-2	RAMP A4	P.I.	647424.56	2201741.67	406+12.83	
A4-2	RAMP A4	C.S.	647434.32	2201738.24	406+23.18	N19°21'37"W
A4-3	RAMP A4	C.S.	647434.32	2201738.24	406+23.18	N19°21'37"W
A4-3	RAMP A4	P.I.	647497.23	2201716.13	406+89.85	
A4-3	RAMP A4	S.T.	647624.85	2201677.46	408+23.18	N16°51'38"W
	RAMP B1	P.O.T.	649252.56	2200730.03	100+00.00	N37°13'29"W
B1-1	RAMP B1	P.C.	649298.30	2200695.28	100+57.44	N37°13'29"W
B1-1	RAMP B1	P.I.	649535.61	2200514.99	103+55.47	
B1-1	RAMP B1	P.T.	649818.22	2200420.34	106+48.20	N18°31'02"W
	RAMP B1	P.T.	649818.22	2200420.34	106+48.20	N18°31'02"W

CURVE	ALIGNMENT	CONTROL POINT	NORTHING	EASTING	STATION	BEARING
B2-1	RAMP B2	T.S.	649481.62	2200401.09	200+00.00	N33°44'01"W
B2-1	RAMP B2	P.I.	649592.52	2200327.04	201+33.35	
B2-1	RAMP B2	S.C.	649646.30	2200287.62	202+00.00	N36°14'01"W
B2-2	RAMP B2	S.C.	649646.30	2200287.62	202+00.00	N36°14'01"W
B2-2	RAMP B2	P.I.	649728.49	2200227.39	203+01.90	
B2-2	RAMP B2	P.T.	649805.02	2200160.1	204+03.67	N41°19'29"W
	RAMP B2	P.O.T.	649988.72	2199998.58	206+48.28	N41°19'29"W
	RAMP B3	P.O.T.	649987.03	2199996.43	300+00.00	N28°42'32"W
B3-1	RAMP B3	P.C.	649992.45	2199993.47	300+06.18	N28°42'32"W
B3-1	RAMP B3	P.I.	650234.72	2199860.77	302+82.41	
B3-1	RAMP B3	P.T.	650508.99	2199827.86	305+51.92	N06°50'34"W
B3-2	RAMP B3	P.C.	650676.40	2199807.77	307+20.53	N06°50'34"W
B3-2	RAMP B3	P.I.	650861.49	2199785.56	309+06.95	
B3-2	RAMP B3	P.T.	651043.32	2199744.45	310+93.05	N12°44'27"W
	RAMP B4	P.O.T.	650166.97	2200303.92	400+00.00	N34°18'45"W
B4-1	RAMP B4	P.C.	650449.61	2200111.03	403+42.19	N34°18'45"W
B4-1	RAMP B4	P.I.	650592.17	2200013.74	405+14.78	
B4-1	RAMP B4	C.S.	650755.49	2199957.92	406+85.29	N18°52'12"W
B4-2	RAMP B4	C.S.	650755.49	2199957.92	406+85.29	N18°52'12"W
B4-2	RAMP B4	P.I.	650818.61	2199936.34	407+51.99	
B4-2	RAMP B4	S.T.	650947.81	2199903.24	408+85.29	N14°22'09"W
	RAMP C1	P.O.T.	651575.73	2199775.91	100+00.00	N06°14'18"W
C1-1	RAMP C1	P.C.	651575.81	2199775.9	100+00.08	N06°14'18"W
C1-1	RAMP C1	P.I.	651702.01	2199762.11	101+27.03	
C1-1	RAMP C1	P.T.	651828.9	2199766.07	102+53.56	N01°47'20"E
C1-2	RAMP C1	P.C.	652471.98	2199786.15	108+96.96	N01°47'20"E
C1-2	RAMP C1	P.I.	652607.43	2199790.38	110+32.47	
C1-2	RAMP C1	P.T.	652739.99	2199818.51	111+67.27	N11°58'49"E
C1-3	RAMP C1	P.C.	652783.36	2199827.71	112+11.61	N11°58'49"E
C1-3	RAMP C1	P.I.	652845.13	2199840.82	112+74.75	
C1-3	RAMP C1	P.T.	652908.03	2199846.39	113+37.74	N05°03'27"E
	RAMP C1	P.O.T.	652989.27	2199853.58	114+19.30	N05°03'27"E
	RAMP C2	P.O.T.	653411.64	2199522.36	200+00.00	N09°16'41"E
C2-1	RAMP C2	P.C.	653895	2199601.33	204+89.76	N09°16'41"E
C2-1	RAMP C2	P.I.	654100.14	2199634.84	206+97.62	
C2-1	RAMP C2	P.C.C.	654307.94	2199639.64	209+04.81	N01°19'22"E
C2-2	RAMP C2	P.C.C.	654307.94	2199639.64	209+04.81	N01°19'22"E
C2-2	RAMP C2	P.I.	654352.23	2199640.66	209+49.11	
C2-2	RAMP C2	P.T.	654396.52	2199640.97	209+93.40	N00°24'05"E
	RAMP C3	P.O.T.	652986.17	2199790.03	300+00.00	N06°17'20"W
C3-1	RAMP C3	P.C.	653395.6	2199744.91	304+11.91	N06°17'20"W
C3-1	RAMP C3	P.I.	653436.23	2199740.43	304+52.78	
C3-1	RAMP C3	C.S	653477.08	2199738.86	304+93.62	N02°12'12"W
C3-2	RAMP C3	C.S.	653477.08	2199738.86	304+93.62	N02°12'12"W
C3-2	RAMP C3	P.I.	653543.74	2199736.29	305+60.34	
C3-2	RAMP C3	S.T.	653676.97	2199742.8	306+93.62	N02°47'47"E
	RAMP D1	P.O.T.	657135.08	2199307.03	96+50.40	N21°24'54"W
D1-1	RAMP D1	P.C.	657460.54	2199179.38	100+00.00	N21°24'54"W
D1-1	RAMP D1	P.I.	657732.68	2199072.65	102+92.32	
D1-1	RAMP D1	P.T.	658024.94	2199078.70	105+77.05	N01°11'09"E
D1-2	RAMP D1	P.C.	658125.12	2199080.77	106+77.24	N01°11'09"E
D1-2	RAMP D1	P.I.	658257.16	2199083.51	108+09.31	
D1-2	RAMP D1	P.T.	658388.55	2199070.05	109+41.05	N05°50'57"W
	RAMP D1	P.O.T	658470.13	2199061.69	110+23.07	N05°50'57"W

CURVE	ALIGNMENT	CONTROL POINT	NORTHING	EASTING	STATION	BEARING
	RAMP D2	P.O.T.	657587.47	2198990.30	200+00.00	N19°08'23"W
D2-1	RAMP D2	P.C.	658144.85	2198796.86	205+90.00	N19°08'23"W
D2-1	RAMP D2	P.I.	658257.33	2198757.82	207+09.06	
D2-1	RAMP D2	P.T.	658375.85	2198746.59	208+26.97	N05°24'51"W
	RAMP D2	P.O.T.	658450.52	2198739.51	209+01.98	N05°24'51"W
	RAMP E1	P.O.T.	658477.75	2198953.79	100+00.00	N05°33'00"W
E1-1	RAMP E1	P.C.	658646.57	2198937.39	101+69.61	N05°33'00"W
E1-1	RAMP E1	P.I.	659130.62	2198890.35	106+55.95	
E1-1	RAMP E1	P.T.	659604.63	2198999.15	111+33.84	N12°55'37"E
	RAMP E1	P.O.T.	659842.66	2199053.79	113+78.06	N12°55'37"E
	RAMP J1	P.O.T.	659600.26	2198842.71	100+00.00	N05°33'00"W
J1-1	RAMP J1	P.C.	659987.07	2198805.12	103+88.63	N05°33'00"W
J1-1	RAMP J1	P.I.	660047.04	2198799.3	104+48.88	
J1-1	RAMP J1	P.R.C.	660106.87	2198792.22	105+09.13	N06°44'35"W
J1-2	RAMP J1	P.R.C.	660106.87	2198792.22	105+09.13	N06°44'35"W
J1-2	RAMP J1	P.I.	660451.60	2198751.46	108+56.26	
J1-2	RAMP J1	C.S.	660798.01	2198729.13	112+03.22	N03°41'20"W
J1-3	RAMP J1	C.S.	660798.01	2198729.13	112+03.22	N03°41'20"W
J1-3	RAMP J1	P.I.	660921.58	2198721.16	113+27.05	
J1-3	RAMP J1	S.C.	660987.34	2198727.96	113+92.80	N05°54'11"E
J1-3	RAMP J1	S.C.	660987.67	2198727.95	113+92.80	N05°54'11"E
J1-3	RAMP J1	P.I.	661078.63	2198737.36	114+84.24	
J1-3	RAMP J1	P.T.	661162.51	2198773.78	115+74.26	N23°28'11"E
	RAMP J1	P.O.T.	661162.51	2198773.78	115+74.26	N23°28'11"E
	RAMP J5	P.O.T.	658714.53	2198830.21	200+00.00	N06°41'54"W
J5-1	RAMP J5	T.S.	659956.24	2198684.38	212+50.25	N06°41'54"W
J5-1	RAMP J5	P.I.	660105.78	2198666.82	214+00.81	
J5-1	RAMP J5	S.C.	660180.25	2198655.83	214+76.08	N08°23'31"W
J5-2	RAMP J5	S.C.	660180.25	2198655.83	214+76.08	N08°23'31"W
J5-2	RAMP J5	P.I.	660288.06	2198639.93	215+85.05	
J5-2	RAMP J5	P.C.C.	660394.78	2198617.91	216+93.97	N11°39'37"W
J5-3	RAMP J5	P.C.C.	660394.78	2198617.91	216+93.97	N11°39'37"W
J5-3	RAMP J5	P.I.	660636.84	2198567.95	219+41.13	
J5-3	RAMP J5	P.T.	660848.16	2198439.77	221+83.46	N31°14'25"W
J5-3	RAMP J5	P.C.	661161.89	2198249.47	225+50.39	N31°14'25"W
J5-3	RAMP J5	P.I.	661537.93	2198021.37	229+90.22	
J5-3	RAMP J5	P.T.	661609.01	2197587.32	233+74.72	N80°42'00"W
	RAMP J5	P.T.	661609.01	2197587.32	233+74.72	N80°42'00"W

NOTE: SEE PAGE 5 FOR THE PROJECT CONTROL POINTS

Preliminary Plans - For Reference Only

HORIZONTAL CONTROL POINTS

DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER KKP 07/18/25
PROJECT ID 105743
SHEET P.14 TOTAL P.1269

CUY-77-11.41 - PART 1

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CURVE	ALIGNMENT	CONTROL POINT	NORTHING	EASTING	STATION	BEARING
	MUP	P.O.T.	653819.48	2199558.72	5+25.95	N02°04'47"W
MUP-1A	MUP	P.C.	653829.47	2199558.36	5+35.95	N02°04'47"W
MUP-1A	MUP	P.I.	653839.17	2199558.01	5+45.65	
MUP-1A	MUP	P.T.	653848.48	2199560.73	5+55.18	N16°17'10"E
MUP-1B	MUP	P.C.	653869.70	2199566.93	5+77.29	N16°17'10"E
MUP-1B	MUP	P.I.	653884.40	2199571.22	5+92.60	
MUP-1B	MUP	P.C.C	653899.50	2199573.69	6+07.87	N09°16'41"E
MUP-1C	MUP	P.C.C	653899.50	2199573.69	6+07.87	N09°16'41"E
MUP-1C	MUP	P.I.	654112.80	2199608.54	8+24.00	
MUP-1C	MUP	P.R.C.	654328.89	2199612.04	10+39.35	N00°55'48"E
MUP-1D	MUP	P.R.C.	654328.89	2199612.04	10+39.35	N00°55'48"E
MUP-1D	MUP	P.I.	654339.22	2199612.21	10+49.68	
MUP-1D	MUP	P.T.	654349.50	2199613.23	10+60.00	N05°39'41"E
MUP-2	MUP	P.C.	654496.62	2199627.81	12+07.84	N00°38'30"W
MUP-2	MUP	P.I.	654904.16	2199623.25	16+15.40	
MUP-2	MUP	P.T.	655306.56	2199558.61	20+21.48	N09°07'33"W
MUP-3	MUP	P.C.	656180.87	2199418.17	29+06.99	N09°07'33"W
MUP-3	MUP	P.I.	656215.95	2199412.53	29+42.52	
MUP-3	MUP	P.T.	656241.73	2199388.09	29+75.91	N43°27'37"W
	MUP	P.I.	656329.28	2199305.13	30+96.51	N43°27'37"W
	MUP	P.I.	656365.00	2199324.58	31+37.19	N28°33'23"E
MUP-4	MUP	P.C.	656370.46	2199323.59	31+42.74	N10°17'17"W
MUP-4	MUP	P.I.	656723.61	2199259.48	35+01.65	
MUP-4	MUP	P.T.	657057.74	2199128.44	38+58.31	N21°24'54"W
MUP-5	MUP	P.C.	657455.24	2198972.54	42+85.29	N21°24'54"W
MUP-5	MUP	P.I.	657510.70	2198950.79	43+44.86	
MUP-5	MUP	P.T.	657566.97	2198931.26	44+04.41	N19°08'23"W
MUP-6	MUP	P.C.	657782.71	2198856.39	46+32.77	N19°08'23"W
MUP-6	MUP	P.I.	658070.60	2198756.47	49+37.51	
MUP-6	MUP	P.T.	658373.32	2198721.38	52+39.82	N06°36'45"W
	MUP	P.O.T.	658448.89	2198712.62	53+15.89	N06°36'45"W
	MUP EAST	P.O.T.	655812.1	2199477.4	20+00.00	S70°26'13"E
MUPE-1	MUP EAST	P.C.	655743.41	2199670.69	22+05.13	S70°26'13"E
MUPE-1	MUP EAST	P.I.	655734.41	2199696.02	22+32.01	
MUPE-1	MUP EAST	P.T.	655715.11	2199714.73	22+57.94	S44°07'28"E
MUPE-2	MUP EAST	P.C.	655666.09	2199762.28	23+26.24	S44°07'28"E
MUPE-2	MUP EAST	P.I.	655643.27	2199784.42	23+58.03	
MUPE-2	MUP EAST	P.T.	655635.05	2199815.13	23+88.27	S75°01'48"E
MUPE-3	MUP EAST	P.C.	655598.08	2199953.42	25+31.43	S75°01'48"E
MUPE-3	MUP EAST	P.I.	655589.38	2199985.94	25+65.08	
MUPE-3	MUP EAST	P.T.	655599.59	2200018.02	25+96.92	N72°20'28"E
MUPE-4	MUP EAST	P.C.	655605.78	2200037.44	26+17.30	N72°20'28"E
MUPE-4	MUP EAST	P.I.	655617.89	2200075.51	26+57.25	
MUPE-4	MUP EAST	P.R.C.	655617.55	2200115.45	26+96.53	S89°30'10"E
MUPE-5	MUP EAST	P.R.C.	655617.55	2200115.45	26+96.53	S89°30'10"E
MUPE-5	MUP EAST	P.I.	655617.31	2200143.18	27+24.26	
MUPE-5	MUP EAST	P.T.	655618.13	2200170.91	27+51.99	N88°17'23"E
	MUP EAST	P.O.T.	655625.25	2200453.48	30+34.65	N88°43'17"E

NOTE: SEE PAGE 5 FOR THE PROJECT CONTROL POINTS

Preliminary Plans - For Reference Only

HORIZONTAL CONTROL POINTS

CUY-77-11.41 - PART 1

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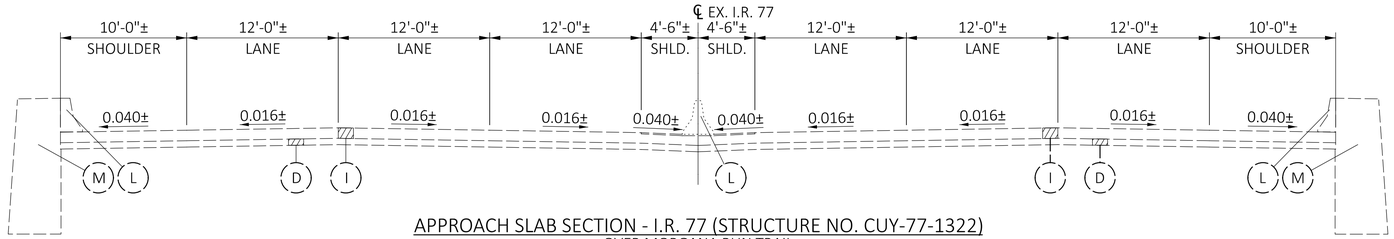
DESIGN AGENCY
HNTB

DESIGNER
KMM

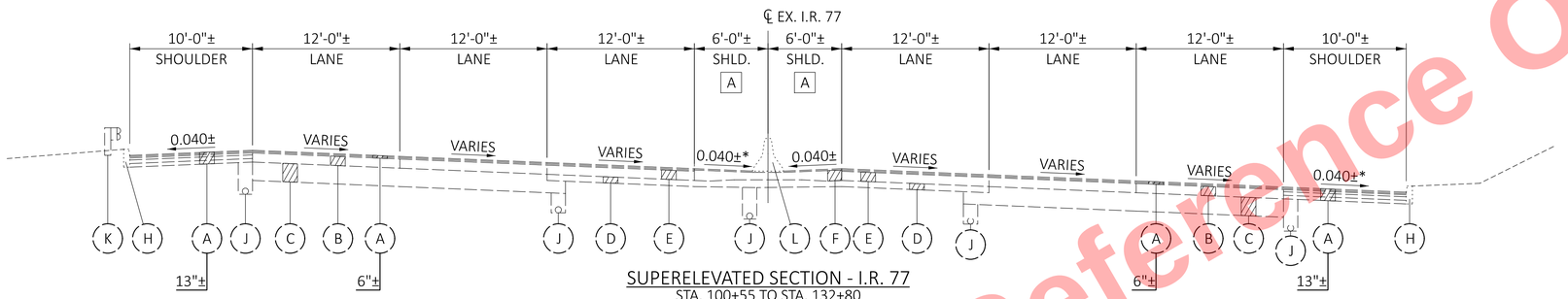
REVIEWER
KKP 07/18/25

PROJECT ID
105743

SHEET P.15 | TOTAL P.1269



APPROACH SLAB SECTION - I.R. 77 (STRUCTURE NO. CUY-77-1322)
OVER MORGANA RUN TRAIL
STA. 169+81.89 TO STA. 170+86.36



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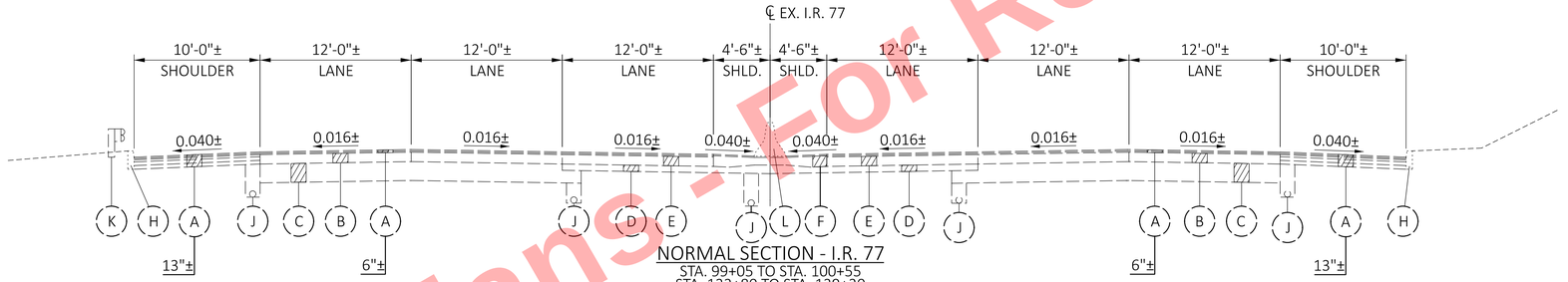
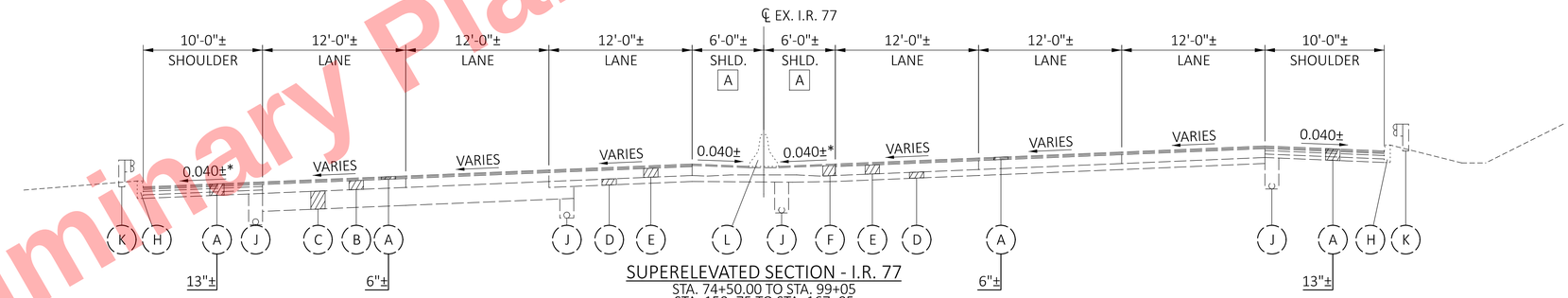
STA. 100+55 TO STA. 132+80
STA. 139+30 TO STA. 150+75
STA. 184+00 TO STA. 200+00



NORMAL SECTION - I.R. 77
STA. 99+05 TO STA. 100+55
STA. 132+80 TO STA. 139+30
STA. 167+05 TO STA. 171+50



SUPERELEVATED SECTION - I.R. 77
STA. 74+50.00 TO STA. 99+05
STA. 150+75 TO STA. 167+05
STA. 171+50 TO STA. 184+00

EXISTING LEGEND

- (A) EXISTING ASPHALT CONCRETE (THICKNESS AS SHOWN)
- (B) REINFORCED CONCRETE PAVEMENT (T=9" +/-)
- (C) SLAG SUBBASE (T=15" +/-)
- (D) SUBBASE (T=6"+/-)
- (E) CONCRETE BASE (T=9"+/-)
- (F) NON-REINFORCED CONCRETE PAVEMENT (T=12" +/-)
- (H) NON-INTEGRAL CONCRETE CURB
- (I) REINFORCED CONCRETE APPROACH SLAB (T=10" +/-)
- (J) 6" PIPE UNDERDRAIN
- (K) EXISTING GUARDRAIL
- (L) CONCRETE BARRIER
- (M) EXISTING RETAINING WALL

[A] 4'-6" PRIOR TO STA. 174+50
VARIES FROM 4'-6" AT STA. 174+50 TO 6'-0" AT STA. 182+90
6'-0" AFTER STA. 182+90

* 0.040 OR SLOPE OF SUPERELEVATION WHICHEVER IS GREATER

Preliminary Plans - For Reference Only

EXISTING TYPICAL SECTIONS
I.R. 77

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER KKP 04/11/22
PROJECT ID 105743
SHEET P.16 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: EXIST. TYPICAL-1 PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:33:26 AM USER: kperkins
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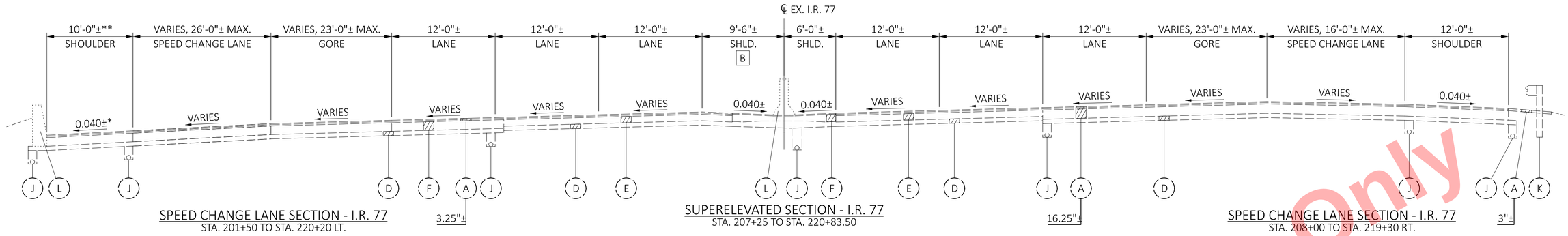
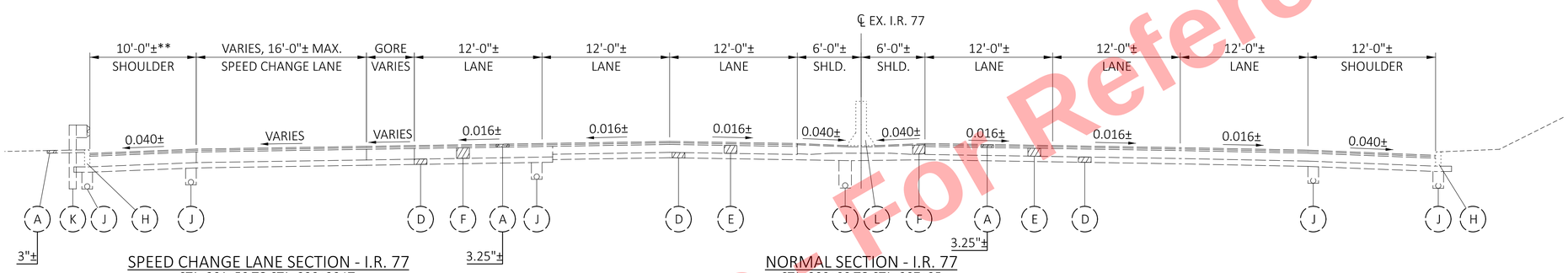


SPEED CHANGE LANE SECTION - I.R. 77
STA. 201+50 TO STA. 220+20 LT.

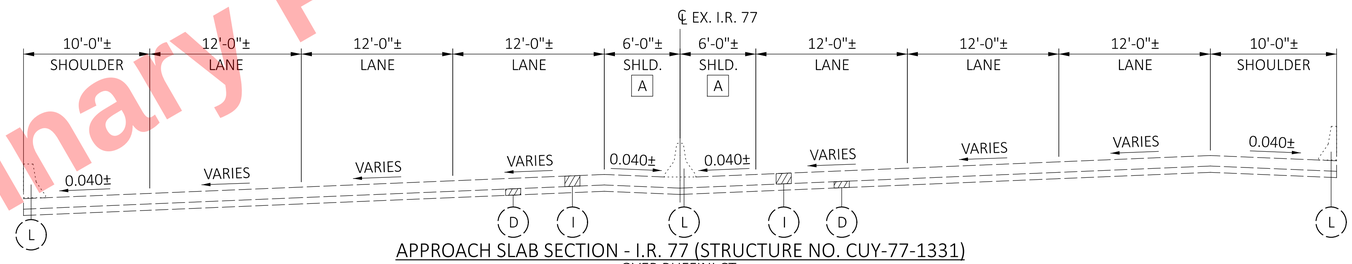
SUPERELEVATED SECTION - I.R. 77
STA. 207+25 TO STA. 220+83.50

SPEED CHANGE LANE SECTION - I.R. 77
STA. 208+00 TO STA. 219+30 RT.



SPEED CHANGE LANE SECTION - I.R. 77
STA. 201+50 TO STA. 220+20 LT.

NORMAL SECTION - I.R. 77
STA. 200+00 TO STA. 207+25



APPROACH SLAB SECTION - I.R. 77 (STRUCTURE NO. CUY-77-1331)
OVER RUFFINI CT.
STA. 171+91.90 TO STA. 176+29.50

EXISTING LEGEND

- (A) EXISTING ASPHALT CONCRETE (THICKNESS AS SHOWN)
- (B) REINFORCED CONCRETE PAVEMENT (T=9" +/-)
- (C) SLAG SUBBASE (T=15" +/-)
- (D) SUBBASE (T=6"+/-)
- (E) CONCRETE BASE (T=9"+/-)
- (F) NON-REINFORCED CONCRETE PAVEMENT (T=12" +/-)
- (H) NON-INTEGRAL CONCRETE CURB
- (I) REINFORCED CONCRETE APPROACH SLAB (T=10" +/-)
- (J) 6" PIPE UNDERDRAIN
- (K) EXISTING GUARDRAIL
- (L) CONCRETE BARRIER
- (M) EXISTING RETAINING WALL

- [A] 4'-6" PRIOR TO STA. 174+50
  VARIES FROM 4'-6" AT STA. 174+50 TO 6'-0" AT STA. 182+90
  6'-0" AFTER STA. 182+90
- [B] VARIES FROM 6'-0" AT STA. 210+75 TO 9'-6" AT STA. 213+15
- * 0.040 OR SLOPE OF SUPERELEVATION WHICHEVER IS GREATER
- ** SHOULDER IS 12'-0' IN 3 LANE SECTION

Preliminary Plans - For Reference Only

EXISTING TYPICAL SECTIONS
I.R. 77

CUY-77-11.41 - PART 1

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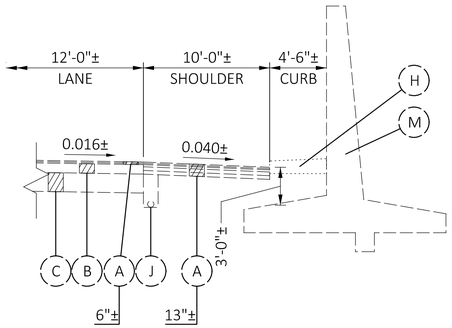
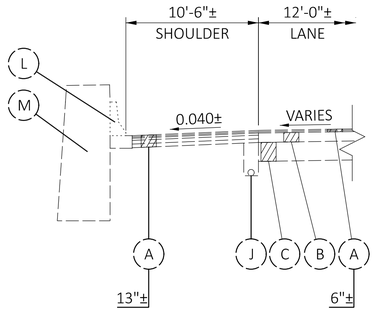
DESIGN AGENCY
HNTB

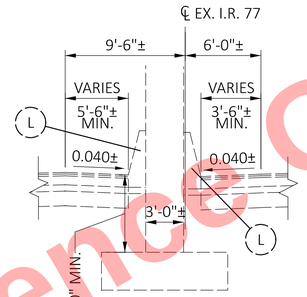
DESIGNER KKP
REVIEWER MTR 03/14/22
PROJECT ID 105743
SHEET P.17 TOTAL P.1269



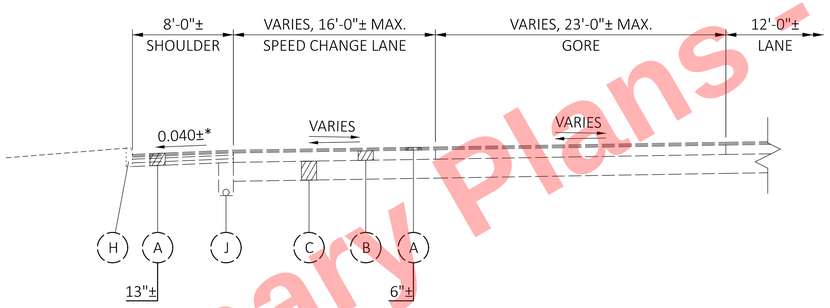
I.R. 77 SHOULDER AT RETAINING WALL
STA. 100+25 TO STA. 101+80 RT.



I.R. 77 SHOULDER AT RETAINING WALL
STA. 157+40 TO STA. 170+20 LT.

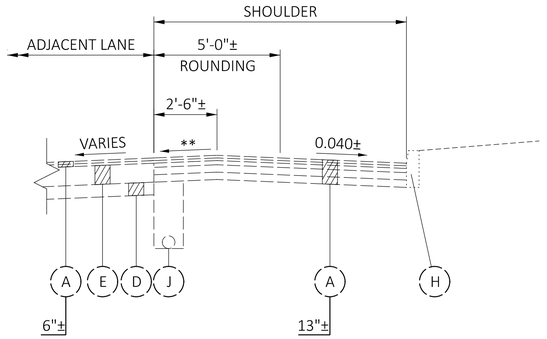


MEDIAN PIER/BARRIER DETAIL
STA. 214+76 TO STA. 217+91



SPEED CHANGE LANE SECTIONS - I.R. 77

STA. 84+30 TO STA. 88+30 LT.
STA. 97+50 TO STA. 108+20 LT.
STA. 120+60 TO STA. 129+00 LT.
STA. 150+75 TO STA. 157+00 LT.
STA. 178+70 TO STA. 192+40 LT.
STA. 81+40 TO STA. 88+00 RT.
STA. 101+70 TO STA. 107+30 RT.
STA. 118+00 TO STA. 133+30 RT.
STA. 147+25 TO STA. 159+00 RT.
STA. 183+00 TO STA. 191+00 RT.
STA. 196+70 TO STA. 205+20 RT.



HIGH SIDE SHOULDER DETAIL
ROUNDING FOR SHOULDER BREAK EXCEEDING 7%

EXISTING LEGEND

- (A) EXISTING ASPHALT CONCRETE (THICKNESS AS SHOWN)
- (B) REINFORCED CONCRETE PAVEMENT (T=9" +/-)
- (C) SLAG SUBBASE (T=15" +/-)
- (D) SUBBASE (T=6"+/-)
- (E) CONCRETE BASE (T=9"+/-)
- (F) NON-REINFORCED CONCRETE PAVEMENT (T=12" +/-)
- (H) NON-INTEGRAL CONCRETE CURB
- (I) REINFORCED CONCRETE APPROACH SLAB (T=10" +/-)
- (J) 6" PIPE UNDERDRAIN
- (K) EXISTING GUARDRAIL
- (L) CONCRETE BARRIER
- (M) EXISTING RETAINING WALL

* 0.040 OR SLOPE OF SUPERELEVATION WHICHEVER IS GREATER
** SLOPE OF ADJACENT LANE SUPERELEVATION

Preliminary Plans - For Reference Only

EXISTING TYPICAL SECTIONS
DETAILS

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER KKP 04/11/22
PROJECT ID 105743
SHEET P.18 TOTAL P.1269

CUY-77-11.41 - PART 1

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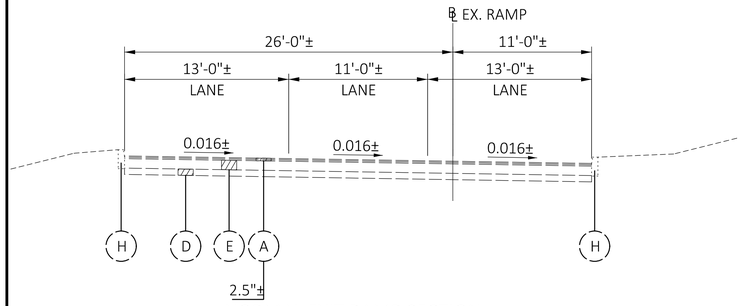
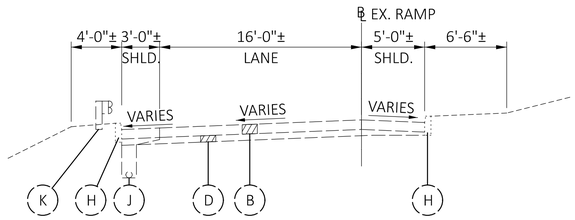
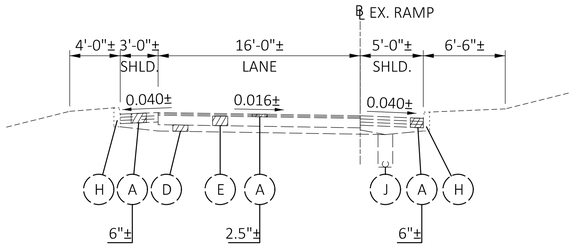


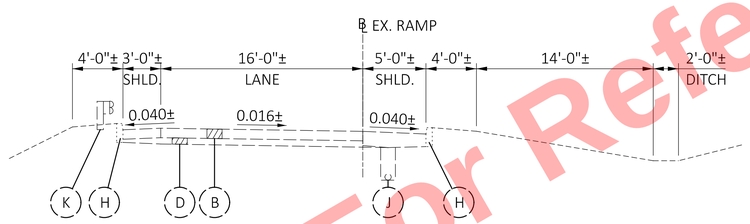
NORMAL EXIT RAMP SECTION
STA. 106+00.00 TO STA. 109+15.89 RAMP B1
STA. 301+70.17 TO STA. 305+50.00 RAMP B3



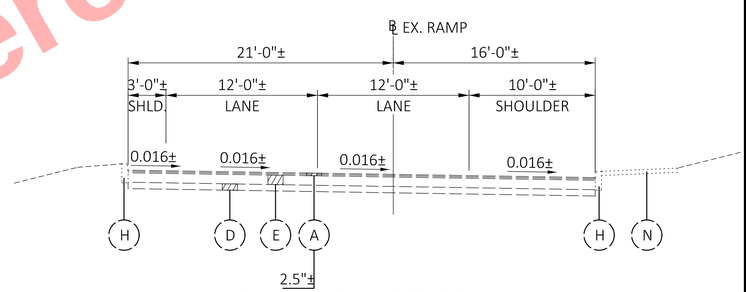
SUPERELEVATED CONCRETE RAMP SECTION
STA. 103+25.00 TO STA. 106+49.57 RAMP D1
STA. 204+50.00 TO STA. 205+90.00 RAMP D2



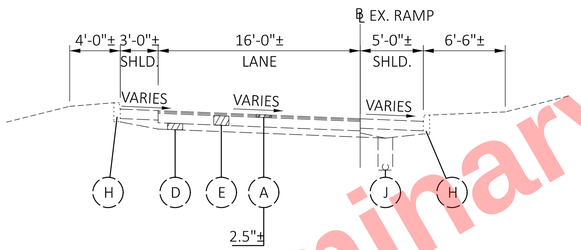
NORMAL COMPOSITE RAMP SECTION
STA. 300+29.34 TO STA. 306+50.00 RAMP A3
STA. 400+30.58 TO STA. 404+25.00 RAMP A4
STA. 105+50.00 TO STA. 106+00.00 RAMP B1
STA. 105+00.00 TO STA. 108+00.00 RAMP C1
STA. 109+00.00 TO STA. 110+50.00 RAMP E1



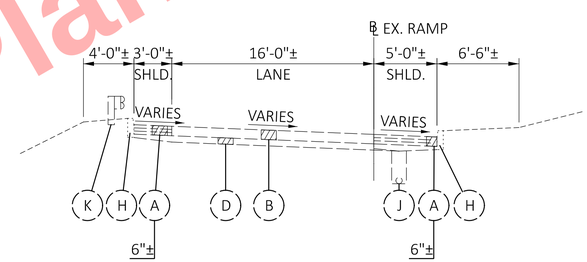
NORMAL CONCRETE RAMP SECTION
STA. 203+50.00 TO STA. 204+73.29 RAMP B2
STA. 401+75.00 TO STA. 403+50.00 RAMP B4
STA. 300+46.76 TO STA. 303+25.00 RAMP C3



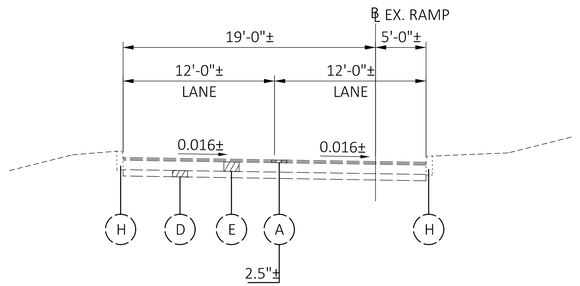
NORMAL EXIT RAMP SECTION
STA. 110+50.00 TO STA. 113+47.06 RAMP E1



SUPERELEVATED COMPOSITE RAMP SECTION
STA. 306+50.00 TO STA. 307+75.00 RAMP A3
STA. 404+25.00 TO STA. 406+10.00 RAMP A4
STA. 105+00.00 TO STA. 105+50.00 RAMP B1
STA. 108+00.00 TO STA. 111+00.00 RAMP C1
STA. 204+00.00 TO STA. 205+00.00 RAMP C2
STA. 107+00.00 TO STA. 109+00.00 RAMP E1



SUPERELEVATED CONCRETE RAMP SECTION
STA. 202+10.00 TO STA. 203+50.00 RAMP B2
STA. 305+50.00 TO STA. 308+50.00 RAMP B3
STA. 403+50.00 TO STA. 405+30.00 RAMP B4
STA. 303+25.00 TO STA. 305+00.00 RAMP C3
STA. 203+10.00 TO STA. 204+50.00 RAMP D2



NORMAL EXIT RAMP SECTION
STA. 111+00.00 TO STA. 112+00.02 RAMP C1
STA. 201+50.00 TO STA. 204+00.00 RAMP C2

EXISTING LEGEND

- (A) EXISTING ASPHALT CONCRETE (THICKNESS AS SHOWN)
- (B) REINFORCED CONCRETE PAVEMENT (T=9" +/-)
- (C) SLAG SUBBASE (T=15" +/-)
- (D) SUBBASE (T=6"+/-)
- (E) CONCRETE BASE (T=9"+/-)
- (F) NON-REINFORCED CONCRETE PAVEMENT (T=12" +/-)
- (H) NON-INTEGRAL CONCRETE CURB
- (I) REINFORCED CONCRETE APPROACH SLAB (T=10" +/-)
- (J) 6" PIPE UNDERDRAIN
- (K) EXISTING GUARDRAIL
- (L) CONCRETE BARRIER
- (M) EXISTING RETAINING WALL
- (N) CONCRETE WALK

NOTE:

SECTIONS ARE SHOWN LOOKING IN THE DIRECTION OF TRAVEL.
STATION RANGES GIVEN FROM PROPOSED BASELINE ALIGNMENTS.

Preliminary Plans For Reference Only

EXISTING TYPICAL SECTIONS
INTERCHANGE RAMPS

CUY-77-11.41 - PART 1

MODEL: EXIST. TYPICAL-4 PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:33:28 AM USER: kperkins
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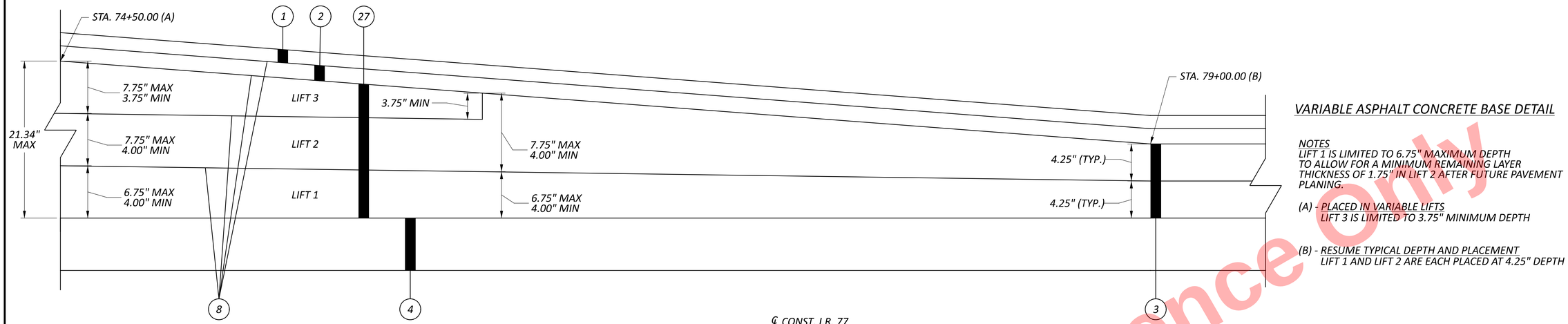
DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER KKP 04/11/22
PROJECT ID 105743
SHEET P.19 TOTAL P.1269

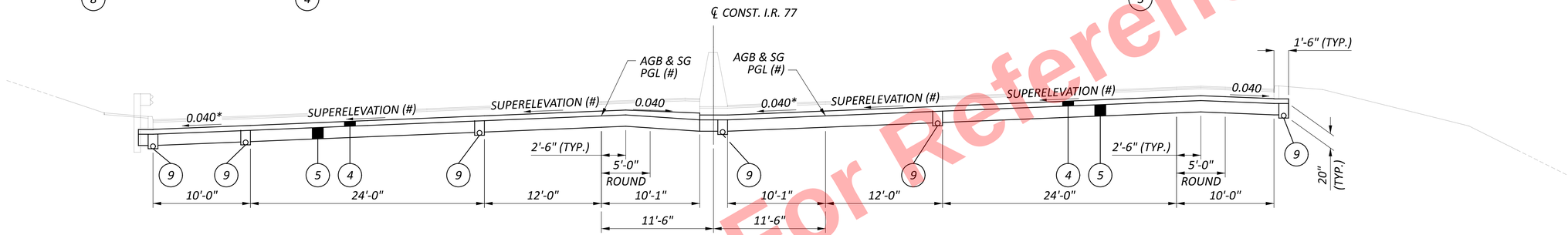


VARIABLE ASPHALT CONCRETE BASE DETAIL

NOTES
LIFT 1 IS LIMITED TO 6.75" MAXIMUM DEPTH TO ALLOW FOR A MINIMUM REMAINING LAYER THICKNESS OF 1.75" IN LIFT 2 AFTER FUTURE PAVEMENT PLANING.

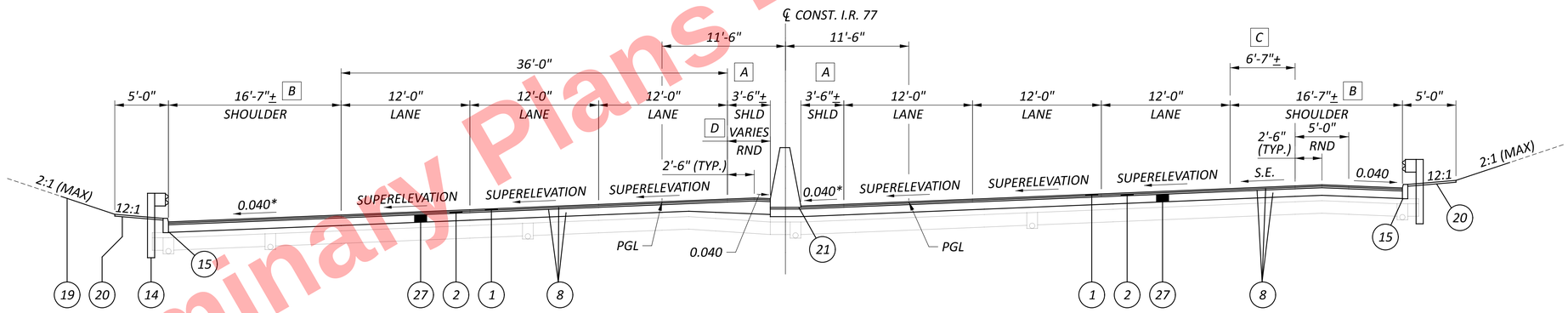
(A) - PLACED IN VARIABLE LIFTS
LIFT 3 IS LIMITED TO 3.75" MINIMUM DEPTH

(B) - RESUME TYPICAL DEPTH AND PLACEMENT
LIFT 1 AND LIFT 2 ARE EACH PLACED AT 4.25" DEPTH



SUBGRADE AND SUBGRADE TREATEMENT DETAILS - SUPERELEVATION SECTION I.R. 77

STA. 74+50.00 TO STA. 79+00.00 = 450 FT.



TYPICAL GRADING IN CUT WITH CURB AND GUARDRAIL

SUPERELEVATION SECTION - I.R. 77

STA. 74+50.00 TO STA. 79+00.00 = 450 FT. (0.041 SUPERELEVATION)

NOTES:
SEE SHEET 374-382 FOR SUPERELEVATION AND TRANSITION DETAILS.
4'-0" ROUNDING AT ALL GRADE BREAKS UNLESS OTHERWISE NOTED.

* 0.040 OR SLOPE OF SUPERELEVATION WHICHEVER IS GREATER
\# SLOPE AND DIMENSION DETAILS REPRESENT AGGREGATE BASE AND SUBGRADE INFORMATION ONLY.
PGL - PROFILE GRADE LINE
S.E. - SUPERELEVATION
SG - SUBGRADE
AGB - AGGREGATE BASE

A VARIES FROM 3'-6"± AT STA. 74+50.00 TO 10'-1" AT STA. 79+00.00 SHOULDER NARROWS AT WIDENED TYPE C1
B VARIES FROM 16'-7"± AT STA. 74+50.00 TO 10'0" AT STA. 79+00.00
C VARIES FROM 6'-7"± AT STA. 74+50.00 TO 0'-0" AT STA. 79+00.00
D 5'-0" MAX ROUNDING

PROPOSED LEGEND

1. ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447), AS PER PLAN
2. ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)
3. ITEM 302 - 8.5" ASPHALT CONCRETE BASE, AS PER PLAN (A), 25.0 MM GYRATORY MIX (PLACE IN 2 LIFTS)
4. ITEM 304 - 6" AGGREGATE BASE
5. ITEM 204 - PROOF ROLLING
   ITEM 206 - 14" CEMENT STABILIZED SUBGRADE
   ITEM 206 - CURING COAT
   ITEM 206 - CEMENT
6. ITEM 609 - CURB, TYPE 2-A
7. ITEM 452 - 12" NON-REINFORCED CONCRETE PAVEMENT
8. ITEM 407 - NON-TRACKING TACK COAT
9. ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS
10. ITEM 204 - SUBGRADE COMPACTION
11. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE B1
12. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN, 6.8" MAX), AS PER PLAN
13. ITEM 202 - WEARING COURSE REMOVED
14. ITEM 606 - GUARDRAIL, TYPE MGS
15. ITEM 609 - CURB, TYPE 4-C
16. FULL DEPTH PAVEMENT SAWING (NO DIRECT PAYMENT)
17. ITEM 407 - TACK COAT, 702.13
18. ITEM 442 - VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (449) (0" MIN, 4.5" MAX), AS PER PLAN
19. ITEM 659 - SEEDING AND MULCHING
20. ITEM 441 - 2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (449), (UNDER GUARDRAIL), AS PER PLAN
21. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C1
22. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D
23. ITEM 659 - LONGITUDINAL CONSTRUCTION JOINT
24. ITEM 441 - 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
25. ITEM 441 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448)
26. ITEM 304 - 8" AGGREGATE BASE
27. ITEM 302 - 8.75" - 21.34" MAX ASPHALT CONCRETE BASE, AS PER PLAN (B), 25.0 MM GYRATORY MIX (PLACE IN MULTIPLE LIFTS)
28. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C

Preliminary Plans - For Reference Only

PROPOSED TYPICAL SECTIONS
I.R. 77

DESIGN AGENCY
HNTB
DESIGNER AS
REVIEWER KKP 04/11/22
PROJECT ID 105743
SHEET P.20 TOTAL P.1269

CUY-77-11.41 - PART 1

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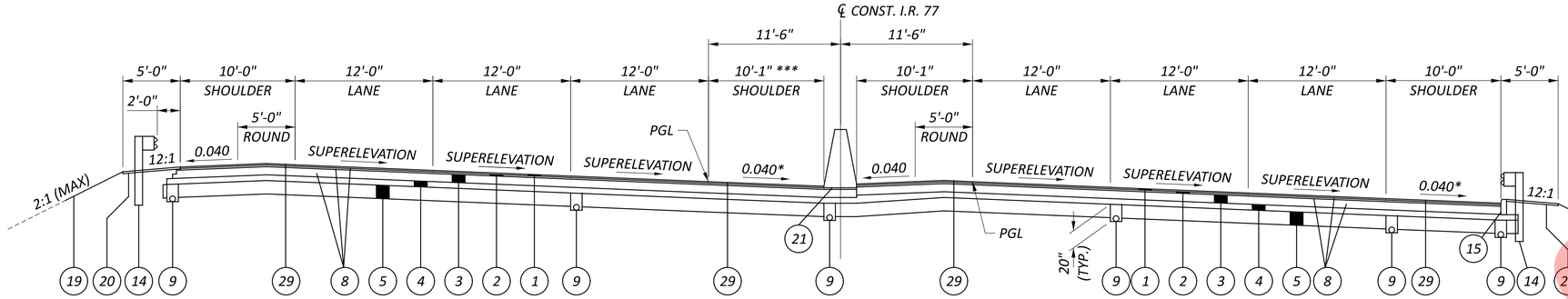
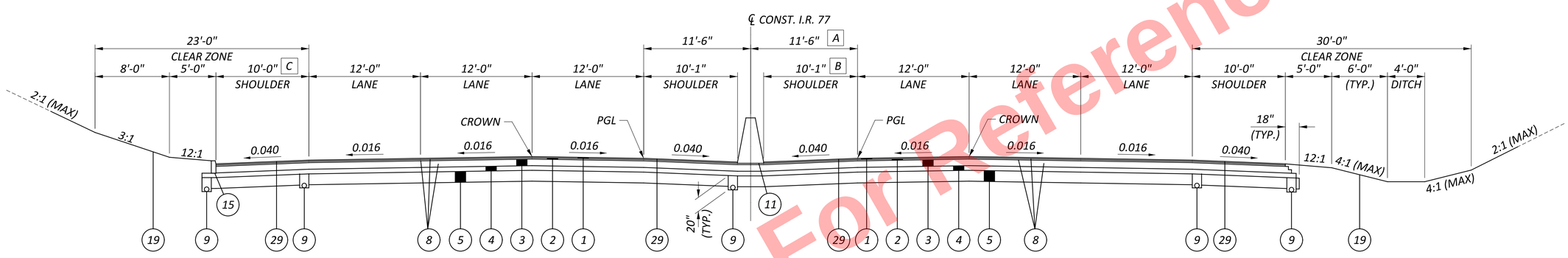


TYPICAL GRADING IN FILL WITH GUARDRAIL

SUPERELEVATION SECTION - I.R. 77

STA. 100+75.00 TO STA. 133+85.00 = 3310.00 FT. (0.036 SUPERELEVATION)
STA. 139+05.00 TO STA. 149+20.00 = 1015.00 FT. (0.024 SUPERELEVATION) **
STA. 188+19.29 TO STA. 199+38.00 = 1118.71 FT. (0.050 SUPERELEVATION)

TYPICAL GRADING IN FILL WITH CURB AND GUARDRAIL

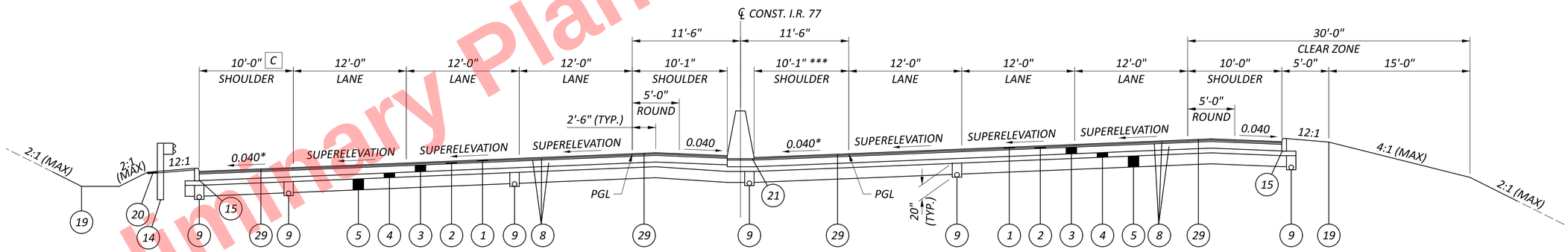


TYPICAL CLEAR ZONE GRADING IN CUT WITH CURB

NORMAL SECTION - I.R. 77

STA. 99+90.00 TO STA. 100+75.00 = 85.00 FT.
STA. 133+85.00 TO STA. 139+05.00 = 520.00 FT.
STA. 149+20.00 TO STA. 151+80.00 = 260.00 FT.
STA. 167+80.00 TO STA. 172+95.00 = 515.00 FT.
STA. 199+38.00 TO STA. 204+03.00 LT/208+08.00 RT= 870.00 FT.

TYPICAL CLEAR ZONE GRADING IN CUT



TYPICAL GRADING IN CUT WITH CURB, GUARDRAIL, AND DITCH

SUPERELEVATION SECTION - I.R. 77

STA. 79+00.00 TO STA. 99+90.00 = 2540 FT. (0.041 SUPERVELEVATION)
STA. 151+80.00 TO STA. 167+80.00 = 1600.00 FT. (0.031 SUPERELEVATION) **
STA. 172+95.00 TO STA. 188+19.29 = 1524.29 FT. (0.041 SUPERELEVATION)

TYPICAL CLEAR ZONE GRADING IN FILL WITH CURB

PROPOSED LEGEND

1. ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447), AS PER PLAN
2. ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)
3. ITEM 302 - 8.5" ASPHALT CONCRETE BASE, AS PER PLAN (A), 25.0 MM GYRATORY MIX (PLACE IN 2 LIFTS)
4. ITEM 304 - 6" AGGREGATE BASE
5. ITEM 204 - PROOF ROLLING
ITEM 206 - 14" CEMENT STABILIZED SUBGRADE
ITEM 206 - CURING COAT
ITEM 206 - CEMENT
6. ITEM 609 - CURB, TYPE 2-A
7. ITEM 452 - 12" NON-REINFORCED CONCRETE PAVEMENT
8. ITEM 407 - NON-TRACKING TACK COAT
9. ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS
10. ITEM 204 - SUBGRADE COMPACTION
11. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE B1
12. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN, 6.8" MAX)
13. ITEM 202 - WEARING COURSE REMOVED
14. ITEM 606 - GUARDRAIL, TYPE MGS
15. ITEM 609 - CURB, TYPE 4-C
16. FULL DEPTH PAVEMENT SAWING (NO DIRECT PAYMENT)
17. ITEM 407 - TACK COAT, 702.13
18. ITEM 442 - VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (449) (0" MIN, 4.5" MAX)
19. ITEM 659 - SEEDING AND MULCHING
20. ITEM 441 - 2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (449), (UNDER GUARDRAIL), AS PER PLAN
21. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C1
22. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D
23. ITEM 659 - LONGITUDINAL CONSTRUCTION JOINT
24. ITEM 441 - 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
25. ITEM 441 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448)
26. ITEM 304 - 8" AGGREGATE BASE
27. ITEM 302 - 8.75" MIN TO 21.34" MAX ASPHALT CONCRETE BASE, AS PER PLAN (B), 25.0 MM GYRATORY MIX (PLACE IN MULTIPLE LIFTS)
28. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C
29. ITEM 618- RUMBLE STRIPS, SHOULDER, (ASPHALT CONCRETE), AS PER PLAN

NOTES:
SEE SHEET P.641-P.650 FOR SUPERELEVATION AND TRANSITION DETAILS.
4'-0" ROUNDING AT ALL GRADE BREAKS UNLESS OTHERWISE NOTED.
* 0.040 OR SLOPE OF SUPERELEVATION WHICHEVER IS GREATER
** HIGH SIDE SHOULDER ROUNDING NOT REQUIRED. FULL SHOULDER WIDTH IS 0.040.
*** SHOULDER NARROWS AT WIDENED TYPE C1 BARRIER LOCATIONS
PGL - PROFILE GRADE LINE

A VARIES FROM 11'-6" AT STA. 204+50.00 TO 9'-6" AT STA. 206+00.00

B VARIES FROM 10'-1" AT STA. 204+50.00 TO 8'-1" AT STA. 206+00.00

C VARIES FROM 10'-0" AT STA. 165+60.07 TO 14'-2" AT STA. 168+30.90
14'2" FROM STA. 168+30.90 TO STA. 170+98.01
13'9" FROM STA. 170+98.01 TO STA. 175+73.03

Preliminary Plans
For Reference Only

PROPOSED TYPICAL SECTIONS
I.R. 77

DESIGN AGENCY: HNTB
DESIGNER: AS
REVIEWER: KKP 04/11/22
PROJECT ID: 105743
SHEET: P.21 TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: PROP. TYPICAL-1 PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:33:29 AM USER: kperkins
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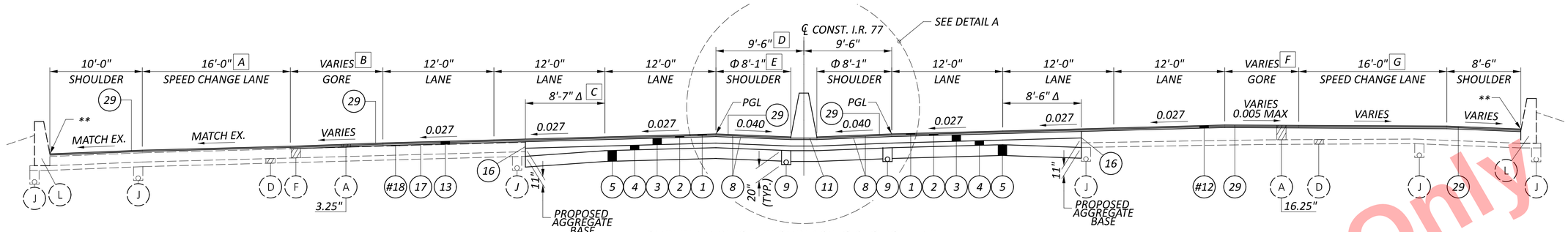
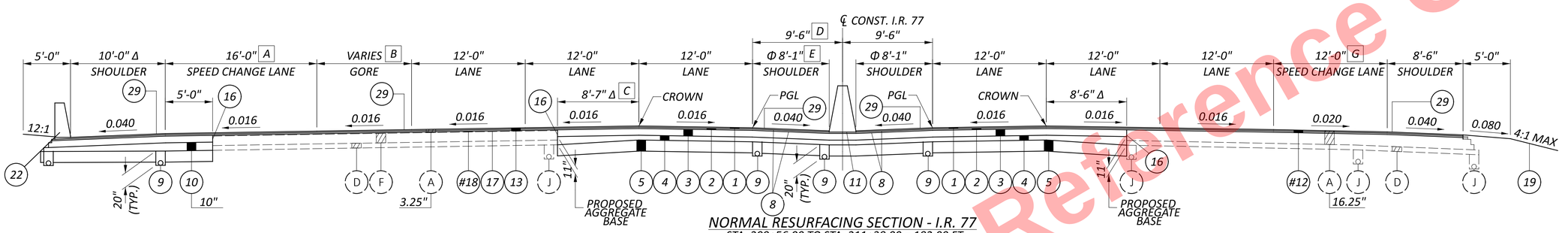


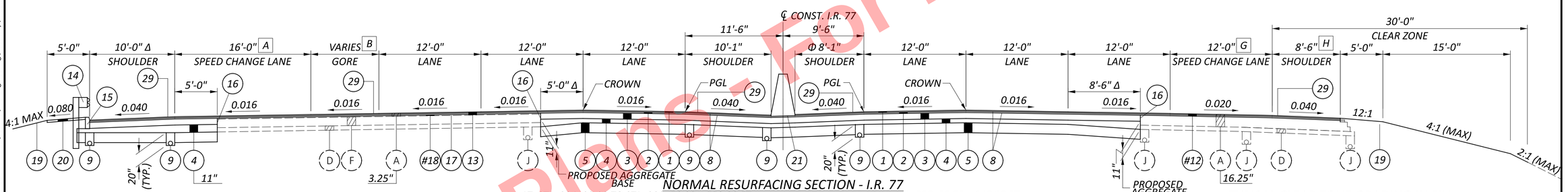
SUPERELEVATION RESURFACING SECTION - I.R. 77

STA. 211+38.00 TO STA. 220+83.50 = 945.50 FT.



NORMAL RESURFACING SECTION - I.R. 77

STA. 209+56.00 TO STA. 211+38.00 = 182.00 FT.



NORMAL RESURFACING SECTION - I.R. 77

LT: STA. 204+03.00 TO STA. 209+56.00 = 553.00 FT. RT: STA. 208+08.00 TO STA. 209+56.00 = 148.00 FT.

- **A** — VARIES FROM 5'-1" AT STA. 204+03.00 TO 16'-0" AT STA. 209+50.00
  16'-0" FROM STA. 209+50.00 TO STA. 215+03.81
  VARIES FROM 16-0" AT STA. 215+03.81 TO 25'-11" AT STA. 219+93.40
  0'-0" FROM 219+93.40 TO END PROJECT
- **B** — 0'-0" FROM STA. 208+08.00 TO STA. 209+50.00
  VARIES FROM 0-0" AT STA. 209+50.00 TO 23'-2" AT STA. 219+93.40
  0'-0" FROM 219+93.40 TO END PROJECT
- **C** — 5'-0" FROM STA. 209+56.00 STA. 210+75.00
  VARIES FROM 5'-0" AT STA. 210+75.00 TO 8'-7" AT STA. 212+05.00
  8'-7" FROM STA. 212+05.00 TO END PROJECT
- **D** — 11'-6" FROM STA. 209+56.00 STA. 210+75.00
  VARIES FROM 11'-6" AT STA. 210+75.00 TO 9'-6" AT STA. 212+05.00
  9'-6" FROM STA. 212+05.00 TO END PROJECT
- **E** — 10'-1" FROM STA. 209+56.00 STA. 210+75.00
  VARIES FROM 10'-1" AT STA. 210+75.00 TO 8'-1" AT STA. 212+05.00
  8'-1" FROM STA. 212+05.00 TO END PROJECT
- **F** — 0'-0" FROM STA. 211+38.00 TO STA. 215+90.56
  VARIES FROM 0-0" AT STA. 216+25.47 TO 19'-11" AT STA. 219+08.18
  0'-0" FROM 219+08.18 TO END PROJECT
- **G** — 0'-0" FROM STATION 208+08.00 TO STA. 208+40.00
  VARIES FROM 0'-0" AT STA. 208+40.00 TO 12'-0" AT STA. 209+40.00
  12'-0" FROM STA. 209+40.00 TO 214+47.93
  VARIES FROM 12'-0" AT STA. 214+47.93 TO 16'-0" AT STA. 216+25.47
  0'-0" FROM 219+08.18 TO END PROJECT
- **H** — VARIES FROM 10'-0" AT STATION 208+08.00 TO 8'-0" AT STA. 208+40.00
  8'-0" FROM STA. 208+40.00 TO 209+56.00

NOTES:
4'-0" ROUNDING AT ALL GRADE BREAKS UNLESS OTHERWISE NOTED.
Φ NORMAL DESIGN CRITERIA 10'-0"
Δ LIMITS OF VARIABLE DEPTH AGGREGATE BASE
SEE SHEET P.651-P.653 FOR PLANING AND VARIABLE INTERMEDIATE DEPTH DETAILS
** MATCH EXISTING PAVEMENT ELEVATIONS ALONG BARRIER TO REMAIN
PGL - PROFILE GRADE LINE

EXISTING LEGEND

- (A) EXISTING ASPHALT CONCRETE (THICKNESS AS SHOWN)
- (D) SUBBASE (T=6"+/-)
- (F) NON-REINFORCED CONCRETE PAVEMENT (T=12" +/-)
- (H) NON-INTEGRAL CONCRETE CURB
- (I) REINFORCED CONCRETE APPROACH SLAB (T=13" +/-)
- (J) 6" PIPE UNDERDRAIN
- (K) GUARDRAIL
- (L) CONCRETE BARRIER
- (M) EXISTING RETAINING WALL

PROPOSED LEGEND

1. ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447), AS PER PLAN
2. ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)
3. ITEM 302 - 8.5" ASPHALT CONCRETE BASE, AS PER PLAN (A), 25.0 MM GYRATORY MIX (PLACE IN 2 LIFTS)
4. ITEM 304 - 6" AGGREGATE BASE
5. ITEM 204 - PROOF ROLLING
   ITEM 206 - 14" CEMENT STABILIZED SUBGRADE
   ITEM 206 - CURING COAT
   ITEM 206 - CEMENT
6. ITEM 609 - CURB, TYPE 2-A
7. ITEM 452 - 12" NON-REINFORCED CONCRETE PAVEMENT
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11. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE B1
12. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN, 6.8" MAX)
13. ITEM 202 - WEARING COURSE REMOVED
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22. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D
23. ITEM 659 - LONGITUDINAL CONSTRUCTION JOINT
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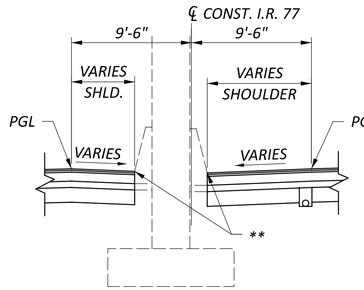
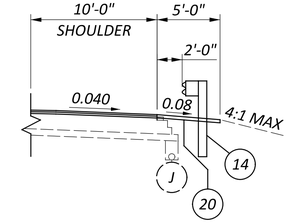
26. ITEM 304 - 8" AGGREGATE BASE
27. ITEM 302 - 8.75" MIN TO 21.34" MAX ASPHALT CONCRETE BASE, AS PER PLAN (B), 25.0 MM GYRATORY MIX (PLACE IN MULTIPLE LIFTS)
28. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C
29. ITEM 618- RUMBLE STRIPS, SHOULDER, (ASPHALT CONCRETE), AS PER PLAN



DETAIL A

STA. 215+65.00 TO STA. 217+91.00

TYPICAL CLEAR ZONE GRADING IN FILL



STA. 211+24.64 RT. TO STA. 214+28.00 RT.

Preliminary Plans - For Reference Only

PROPOSED TYPICAL SECTIONS
I.R. 77

DESIGN AGENCY	HNTB
DESIGNER	AS
REVIEWER	KKP 04/11/22
PROJECT ID	105743
SHEET	P.22
TOTAL	P.1269

CUY-77-11.41 - PART 1

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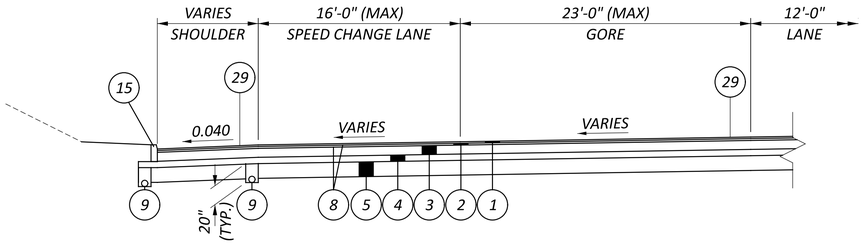
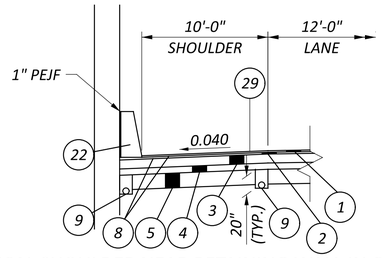
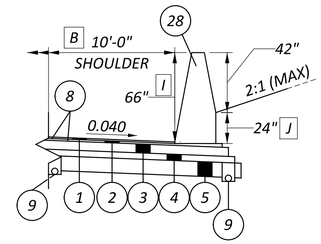


SPEED CHANGE LANE DETAILS

LEFT	RIGHT
(RAMP A3) STA. 84+01.07 TO STA. 89+37.30 = 536.23 FT.	STA. 81+05.60 TO STA. 96+05.66 = 1500.06 FT. (RAMP A4)
(RAMP B2) STA. 93+55.21 TO STA. 108+64.93 = 1509.72 FT.	STA. 101+85.51 TO STA. 106+69.66 = 484.15 FT. (RAMP B1)
(RAMP B3) STA. 119+57.69 TO STA. 127+07.99 = 749.02 FT.	STA. 117+83.77 TO STA. 132+90.96 = 1507.19 FT. (RAMP B4 AND C1)
(RAMP C2) STA. 150+65.93 TO STA. 157+34.38 = 668.45 FT.	STA. 146+42.86 TO STA. 161+68.10 = 1525.24 (RAMP C3)
(RAMP D2) STA. 176+83.05 TO STA. 192+12.96 = 1529.91 FT.	STA. 182+99.10 TO STA. 190+98.90 = 798.95 (RAMP D1)
	STA. 197+12.01 TO STA. 203+83.61 = 671.60 (RAMP E1)



TYPICAL SHOULDER NEAR RETAINING WALL IN CUT



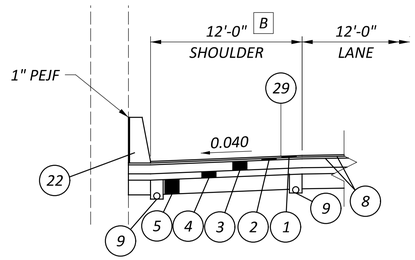
I RT: HEIGHT VARIES FROM 66" AT STA. 89+02.53 TO 42" AT STA. 89+32.15 (TRANSITION TO BARRIER, TYPE D, HEIGHT)
RT: HEIGHT IS 60" FROM STA. 189+25.00 TO STA. 190+95.11

J RT: HEIGHT IS 18" FROM STA. 189+25.00 TO STA. 190+95.11

K RT: HEIGHT IS 66"
LT: HEIGHT VARIES RELATIVE TO L

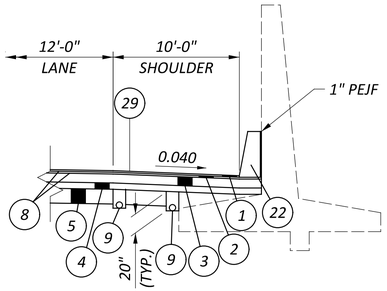
BARRIER TYPE C GRADING DETAIL

LT: STA. 76+00.00 TO STA. 77+40.00 = 160.00 FT.
RT: STA. 88+75.00 TO STA. 89+02.53 = 27.53 FT.
LT: STA. 141+25.00 TO STA. 141+76.34 = 51.34 FT.
LT: STA. 142+54.87 TO STA. 143+25.00 = 70.13 FT.
RT: STA. 189+25.00 TO STA. 190+95.11 = 170.11 FT.

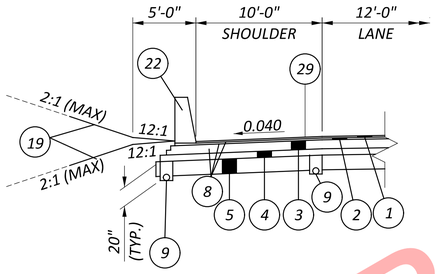


SHOULDER DETAIL AGAINST EXISTING WALL/ABUTMENT

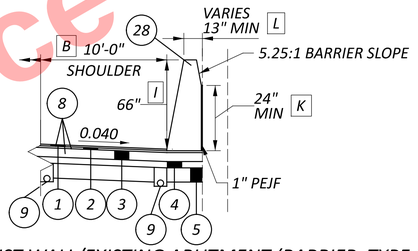
LT: STA. 89+37.30 TO STA. 106+05.21 = 2482.37 FT.
RT: STA. 89+32.15 TO STA. 90+74.60 = 799.97 FT.



SHOULDER DETAIL AGAINST EXISTING WALL

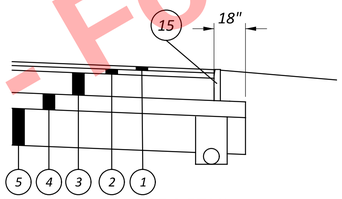


TYPICAL GRADING WITH CONCRETE BARRIER

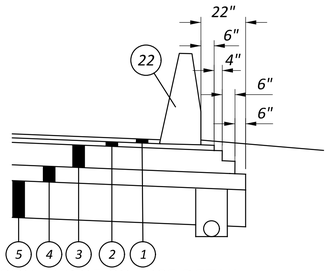


SHOULDER DETAIL AGAINST WALL/EXISTING ABUTMENT (BARRIER, TYPE C)

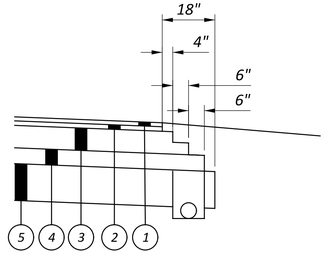
RT: STA. 89+02.53 TO STA. 89+32.15 = 29.62 FT. (RETAINING WALL 2)
LT: STA. 141+76.34 TO STA. 142+54.87 = 78.53 FT.



TYPICAL EDGE COURSE DETAIL WITH CURB



TYPICAL EDGE COURSE DETAIL WITH BARRIER

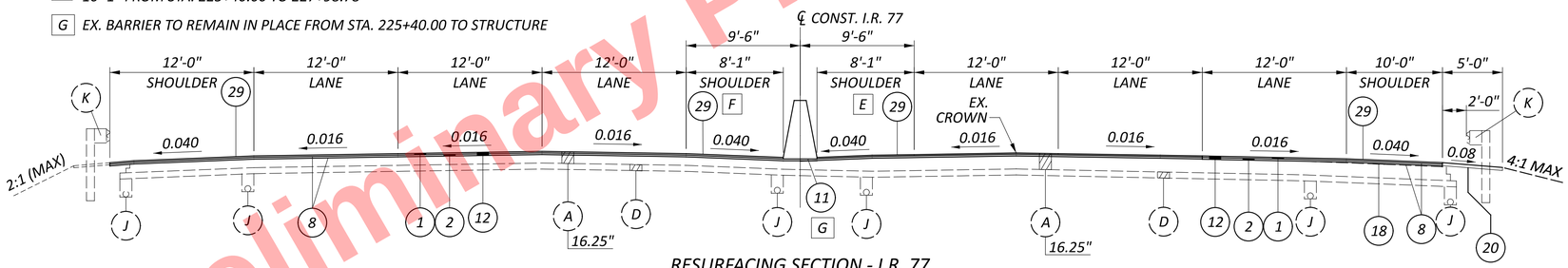


TYPICAL EDGE COURSE DETAIL

E VARIES FROM 8'-1" AT STA. 222+89.59 TO 6'-1" AT STA. 225+40.00
8'-1" FROM STA. 225+40.00 TO STA. 227+98.78

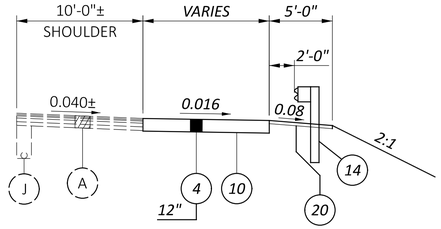
F VARIES FROM 8'-1" AT STA. 222+89.59 TO 10'-1" AT STA. 225+40.00
10'-1" FROM STA. 225+40.00 TO 227+98.78

G EX. BARRIER TO REMAIN IN PLACE FROM STA. 225+40.00 TO STRUCTURE



RESURFACING SECTION - I.R. 77

LT: STA. 220+83.50 TO STA. 228+99.12 = 815.62 FT.
RT: STA. 220+83.50 TO STA. 227+98.78 = 715.28 FT.
CROSS SLOPE CORRECTION IN OUTSIDE LANE



ITS DRIVE DETAIL

PROPOSED LEGEND

1. ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447), AS PER PLAN
2. ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)
3. ITEM 302 - 8.5" ASPHALT CONCRETE BASE, AS PER PLAN (A), 25.0 MM GYRATORY MIX (PLACE IN 2 LIFTS)
4. ITEM 304 - 6" AGGREGATE BASE
5. ITEM 204 - PROOF ROLLING
   ITEM 206 - 14" CEMENT STABILIZED SUBGRADE
   ITEM 206 - CURING COAT
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6. ITEM 609 - CURB, TYPE 2-A
7. ITEM 452 - 12" NON-REINFORCED CONCRETE PAVEMENT
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12. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN, 6.8" MAX)
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14. ITEM 606 - GUARDRAIL, TYPE MGS
15. ITEM 609 - CURB, TYPE 4-C
16. FULL DEPTH PAVEMENT SAWING (NO DIRECT PAYMENT)
17. ITEM 407 - TACK COAT, 702.13
18. ITEM 442 - VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (449) (0" MIN, 4.5" MAX)
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25. ITEM 441 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448)
26. ITEM 304 - 8" AGGREGATE BASE
27. ITEM 302 - 8.75" MIN TO 21.34" MAX ASPHALT CONCRETE BASE, AS PER PLAN (B), 25.0 MM GYRATORY MIX (PLACE IN MULTIPLE LIFTS)
28. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C
29. ITEM 618- RUMBLE STRIPS, SHOULDER, (ASPHALT CONCRETE), AS PER PLAN

NOTES:
4'-0" ROUNDING AT ALL GRADE BREAKS UNLESS OTHERWISE NOTED.
Θ NORMAL DESIGN CRITERIA 8'-0"
PEJF - PREFORMED EXPANSION JOINT FILLER

B LT MEASURED FROM I.R. 77 OUTSIDE THRU LANE:
WIDTH IS 12'-0" FROM STA. 89+37.30 TO STA. 94+94.39
VARIES FROM 12'-0" AT STA. 94+94.39 TO 11'-0" AT STA. 95+45.30
WIDTH IS 11'-0" FROM STA. 95+45.30 TO STA. 96+81.19

Θ LT MEASURED FROM ADJACENT EDGE OF RAMP ENTRANCE LANE:
VARIES FROM 12'-0" AT STA. 93+55.21 TO 4'-5" AT STA. 96+81.19
VARIES FROM 4'-5" AT STA. 96+81.19 TO 8'-0" AT STA. 106+05.21

Θ RT MEASURED FROM ADJACENT LANE:
VARIES FROM 8'-0" AT STA. 83+55.66 TO 4'-7" AT STA. 89+32.15
VARIES FROM 4'-7" AT STA. 89+32.15 TO 8'-0" AT STA. 90+75.00

Θ SEE SHEETS P.656-P.661 FOR DETAILS ON THE VARIABLE WIDTHS AND CROSS SLOPES.

Preliminary Plans - For Reference Only

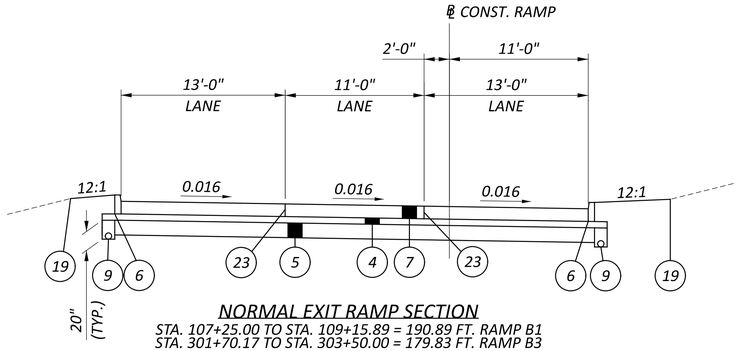
CUY-77-11.41 - PART 1

MODEL: PROP. TYPICAL-3 PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:33:31 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GY002.dgn

PROPOSED TYPICAL SECTIONS
DETAILS

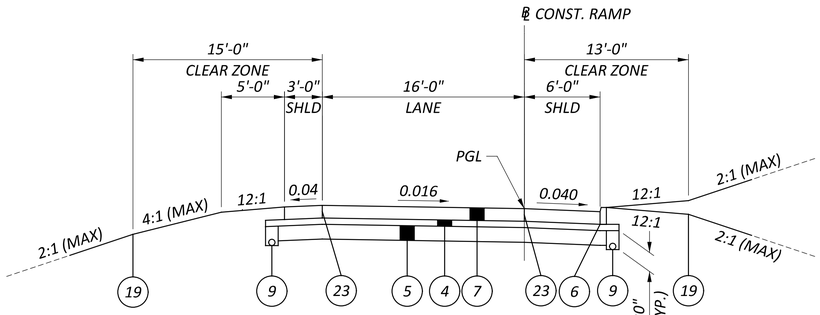
DESIGN AGENCY
HNTB

DESIGNER	AS
REVIEWER	KKP 04/11/22
PROJECT ID	105743
SHEET	P.23
TOTAL	P.1269



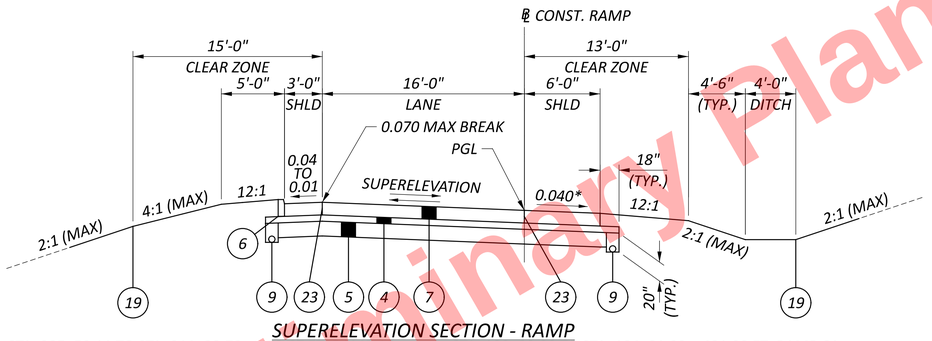
NORMAL EXIT RAMP SECTION

STA. 107+25.00 TO STA. 109+15.89 = 190.89 FT. RAMP B1
STA. 301+70.17 TO STA. 303+50.00 = 179.83 FT. RAMP B3



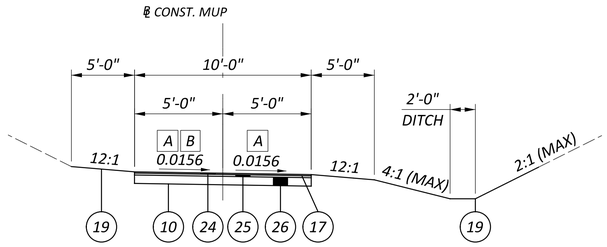
NORMAL SECTION - RAMP

STA. 300+29.34 TO STA. 305+50.11 = 520.77 FT. RAMP A3
STA. 400+30.58 TO STA. 405+69.71 = 531.13 FT. RAMP A4
STA. 303+50.00 TO STA. 304+96.92 = 146.92 FT. RAMP B3
STA. 401+75.00 TO STA. 402+63.29 = 88.29 FT. RAMP B4
STA. 104+81.00 TO STA. 110+70.00 = 589.00 FT. RAMP C1
STA. 203+00.00 TO STA. 204+28.48 = 128.48 FT. RAMP C2
STA. 300+46.76 TO STA. 303+29.35 = 282.59 FT. RAMP C3
STA. 106+46.05 TO STA. 107+00.02 = 53.97 FT. RAMP D1



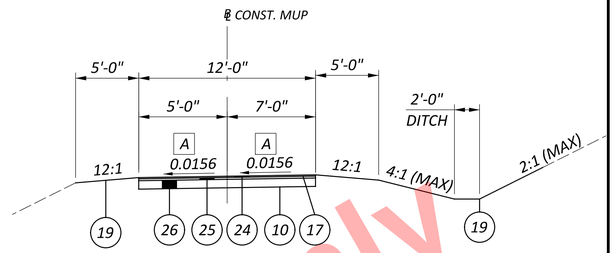
SUPERELEVATION SECTION - RAMP

STA. 305+50.11 TO STA. 311+29.78 = 579.67 FT. RAMP A3
STA. 405+69.71 TO STA. 408+23.18 = 253.47 FT. RAMP A4
STA. 100+00.00 TO STA. 107+25.00 = 725.00 FT. RAMP B1
STA. 200+00.00 TO STA. 204+73.30 = 473.30 FT. RAMP B2
STA. 304+96.92 TO STA. 310+93.05 = 596.13 FT. RAMP B3
STA. 402+63.29 TO STA. 408+85.29 = 622.00 FT. RAMP B4
STA. 100+00.00 TO STA. 104+81.00 = 481.00 FT. RAMP C1
STA. 204+28.48 TO STA. 209+93.40 = 564.92 FT. RAMP C2
STA. 303+29.35 TO STA. 306+93.62 = 364.27 FT. RAMP C3
STA. 96+45.46 TO STA. 106+46.05 = 997.59 FT. RAMP D1
STA. 200+00.00 TO STA. 205+90.00 = 590.00 FT. RAMP D2
STA. 100+00.00 TO STA. 110+50.00 = 1,050.00 FT. RAMP E1



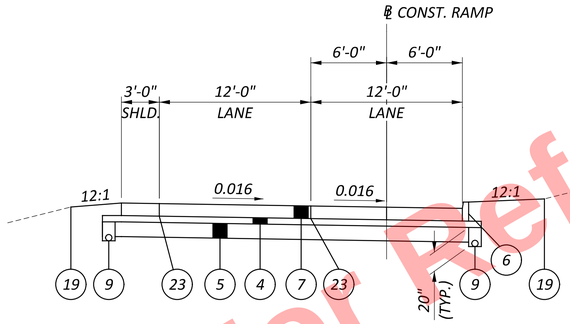
MULTI -USE PATH

STA. 5+25.95 TO 18+00.00 = 1274.05 FT.
EAST MUP: STA. 20+00.00 TO STA. 26+58.61 = 765.22'



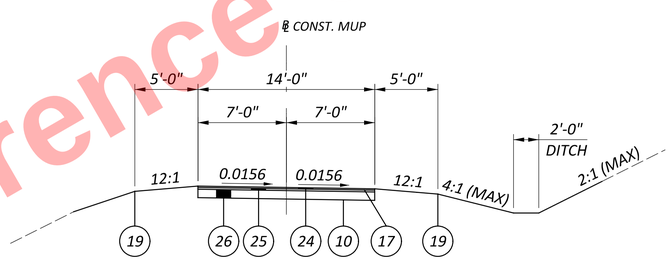
MULTI -USE PATH

STA. 18+00.00 TO STA. 30+35.00 = 1,235.00'



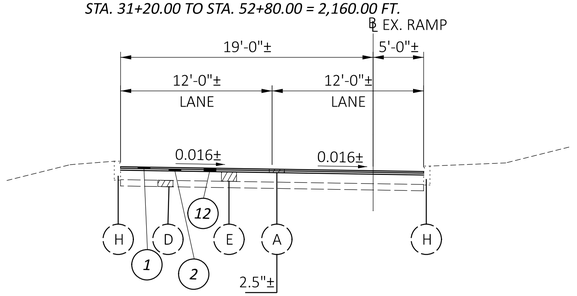
NORMAL EXIT RAMP SECTION

STA. 110+50.00 TO STA. 113+47.06 = 297.06 FT. RAMP E1



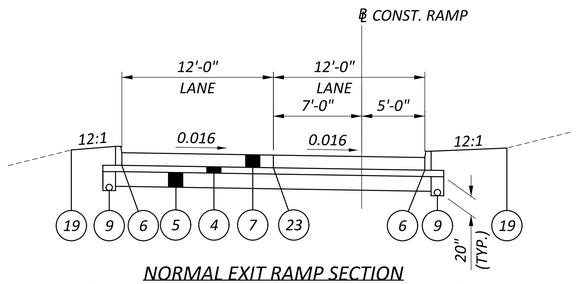
MULTI -USE PATH

STA. 31+20.00 TO STA. 52+80.00 = 2,160.00 FT.



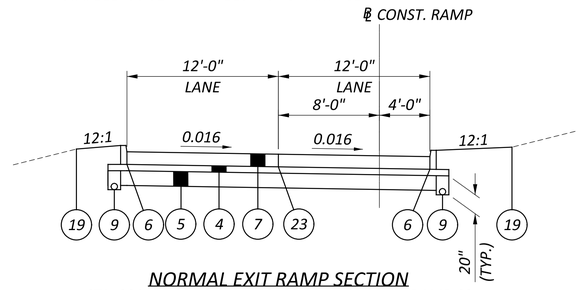
RESURFACING EXIT RAMP SECTION

STA. 112+00.02 TO STA. 113+76.45 RAMP C1



NORMAL EXIT RAMP SECTION

STA. 110+70.00 TO STA. 112+00.02 = 130.02 FT. RAMP C1



NORMAL EXIT RAMP SECTION

STA. 201+50.00 TO STA. 203+00.00 = 150.00 FT. RAMP C2

PROPOSED LEGEND

1. ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447), AS PER PLAN
2. ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)
3. ITEM 302 - 8.5" ASPHALT CONCRETE BASE, AS PER PLAN (A), 25.0 MM GYRATORY MIX (PLACE IN 2 LIFTS)
4. ITEM 304 - 6" AGGREGATE BASE
5. ITEM 204 - PROOF ROLLING
   ITEM 206 - 14" CEMENT STABILIZED SUBGRADE
   ITEM 206 - CURING COAT
   ITEM 206 - CEMENT
6. ITEM 609 - CURB, TYPE 2-A
7. ITEM 452 - 12" NON-REINFORCED CONCRETE PAVEMENT
8. ITEM 407 - NON-TRACKING TACK COAT
9. ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS
10. ITEM 204 - SUBGRADE COMPACTION
11. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE B1
12. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN, 6.8" MAX)
13. ITEM 202 - WEARING COURSE REMOVED
14. ITEM 606 - GUARDRAIL, TYPE MGS
15. ITEM 609 - CURB, TYPE 4-C
16. FULL DEPTH PAVEMENT SAWING (NO DIRECT PAYMENT)
17. ITEM 407 - TACK COAT, 702.13
18. ITEM 442 - VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (449) (0" MIN, 4.5" MAX)
19. ITEM 659 - SEEDING AND MULCHING
20. ITEM 441 - 2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (449), (UNDER GUARDRAIL), AS PER PLAN
21. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C1
22. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D
23. ITEM 659 - LONGITUDINAL CONSTRUCTION JOINT
24. ITEM 441 - 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
25. ITEM 441 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448)
26. ITEM 304 - 8" AGGREGATE BASE
27. ITEM 302 - 8.75" MIN TO 21.34" MAX ASPHALT CONCRETE BASE, AS PER PLAN (B), 25.0 MM GYRATORY MIX (PLACE IN MULTIPLE LIFTS)
28. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C

A 0.0156 (RT) FROM STA. 10+12.00 TO STA. 15+36.63
SLOPE VARIES FROM 0.0156 (RT) @ STA. 15+36.63
TO 0.0156 (LT) @ STA 17+00.00

B EAST MUP SLOPE VARIES FROM 0.0156 @ STA. 26+20.00
TO 0.0294 @ STA 26+41.22

NOTES:
4'-0" ROUNDING AT ALL GRADE BREAKS UNLESS OTHERWISE NOTED.
SEE SHEETS P.641-P.650 FOR SUPERELEVATION AND TRANSITION DETAILS.
SECTIONS ARE SHOWN LOOKING IN THE DIRECTION OF TRAVEL.

* 0.040 OR SLOPE OF SUPERELEVATION WHICHEVER IS GREATER.
IF ON THE HIGH SIDE OF SUPERELEVATION 5' ROUNDING APPLIES
PGL - PROFILE GRADE LINE

Preliminary Plans - Not For Reference Only

PROPOSED TYPICAL SECTIONS
INTERCHANGE RAMPS AND MUP

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER KKP 04/11/22
PROJECT ID 105743
SHEET P.24 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: PROP_TYPICAL4 PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:33:32 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GY002.dgn

GENERAL

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS SECTIONS, EVEN THOUGH OTHERWISE SHOWN.

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

AT&T
13630 LORAIN AVE. 2ND FLOOR
CLEVELAND, OHIO 44111
ATTN: JAMES JANIS
PHONE: 216-534-7285
EMAIL: PJ8191@ATT.COM

CLEVELAND PUBLIC POWER
1300 LAKESIDE AVE., ROOM 152
CLEVELAND, OHIO 44114
ATTN: CHRIS HIRZEL
PHONE: 216-563-7212
EMAIL: CHIRZEL@CPP.ORG

VILLAGE OF CUYAHOGA HEIGHTS
4863 EAST 71ST STREET
CUYAHOGA HEIGHTS, OHIO 44125
ATTN: TODD SCIANO,
VILLAGE ENGINEER
PHONE: (216) 642-1130, EXT. 123,
EMAIL: TSCIANO@DBOHNING.COM

CITY OF CLEVELAND -
DIVISION OF WATER
1201 LAKESIDE AVE.
CLEVELAND, OH 44114
ATTN: FRED ROBERTS
INSPECTION AND
ENFORCEMENT: 216-664-2342
EMERGENCY HOTLINE: 216-664-3060
EMAIL: FRED_ROBERTS
@CLEVELANDWATER.COM

UNITI (FORMERLY WINDSTREAM)
2165 STATE ROUTE 133
SOUTH BLANCHESTER,
OH 45107
ATTN: LEON TAYLOR
PHONE: 937-725-5358
EMAIL: LEON.TAYLOR
@UNITI.COM

NORTHEAST OHIO REGIONAL
SEWER DISTRICT
3900 EUCLID AVE.
CLEVELAND, OH 44115
ATTN: ROBERT STOERKEL
PHONE: 216-881-6600 x6802
EMAIL: STOERKELR@NEORSD.ORG

CEI FIRST ENERGY
6896 MILLER RD., SUITE 101
BRECKSVILLE, OH 44141
ATTN: JOHN ZASSICK
PHONE: 440-546-8706
EMAIL: JMZASSICK
@FIRSTENERGYCORP.COM

CHARTER COMMUNICATIONS
7820 DIVISION DR.,
MENTOR, OH 44060
ATTN: EMIL SYMISTER
PHONE: 216-575-8016 x12165551158
EMAIL: EMIL.SYMISTER@CHARTER.COM

CEI FIRST ENERGY - TRANSMISSION
76 SOUTH MAIN STREET
AKRON, OH 44308,
A-GO-3
ATTN: ALAN D. SCHEMPP
RELOCATION FIRST CONTACT
PHONE: 330-384-5489
EMAIL: ASCHEMPP
@FIRSTENERGYCORP.COM

CITY OF CLEVELAND -
DIVISION OF WATER
POLLUTION CONTROL
12302 KIRBY AVE.
CLEVELAND, OHIO 44108
ATTN: ALAN SCHIELY
PHONE: 216-664-3638
EMAIL: ASCHIELY
@CLEVELANDWPC.COM

SUNOCO PIPELINE L.P.
525 FRITZTOWN RD.
SINKING SPRING, PA 19608
ATTN: DEB SCHNECK
PHONE: 610-670-3258
EMAIL: DEBRA.SCHNECK
@ENERGYTRANSFER.COM

BLUEBIRD (FORMERLY EVERSTREAM)
1228 EUCLID AVE., SUITE 250
CLEVELAND OHIO 44115
ATTN: GIO REILLO,
PHONE: 216-905-0780
GIO.REILLO@BLUEBIRDFIBER.COM

ODOT - D12 TRAFFIC
5500 TRANSPORTATION BLVD.
GARFIELD HEIGHTS, OH 44125

ENBRIDGE
320 SPRINGSIDE DR., SUITE 320
AKRON, OHIO 44333
ATTN: AARON CONNANT
PHONE: 330-801-1096
EMAIL: RELOCATION
@ENBRIDGE.COM

VILLAGE OF NEWBURGH HEIGHTS
ATTN: JAMES SICKELS, CITY ENGINEER
PHONE: 330-338-5349
EMAIL: JAMES.SICKELS
@OHM-ADVISORS.COM

CITY OF CLEVELAND -
DIVISION OF TRAFFIC ENGINEERING
601 LAKESIDE AVE., RM 25
CLEVELAND, OHIO 44114
ATTN: ROBERT MAVEC
PHONE: 216-857-7488
EMAIL: RMAVEC
@CITY.CLEVELAND.OH.US

DUCK CREEK ENERGY, INC.
7033 MILL RD.
BRECKSVILLE, OH 44141
ATTN: DAVID MANSBERY
PHONE: 440-668-9813
EMAIL: DMANSBERY@
DUCKCREEKENERGY.COM

ODOT OFFICE OF TSMO - ITS SECTION
1606 W BROAD ST
COLUMBUS, OH 43223
614-387-4113
CEN.ITS.LAB@DOT.OHIO.GOV

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

EXISTING PLANS

EXISTING PLANS FOR THE PROJECT CORRIDOR MAY BE INSPECTED IN THE ODOT DISTRICT 12 OFFICE IN GARFIELD HEIGHTS, OHIO.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, WORK HOURS WILL BE RESTRICTED TO 7:00 AM TO 7:00 PM.

THE CONTRACTOR SHALL APPLY FOR A CITY OF CLEVELAND NOISE VARIANCE TO PERFORM NIGHT TIME WORK IN THE CITY OF CLEVELAND. IN THE EVENT A NOISE VARIANCE IS NOT GRANTED BY THE DIRECTOR OF SAFETY, WORK SHALL COMMENCE DURING DAYTIME HOURS AT NO ADDITIONAL COST. ANY ADDITIONAL MAINTENANCE OF TRAFFIC COST SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC, AS PER PLAN. NO SEPARATE PAYMENT WILL BE MADE.

DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT. THE NOISE LEVEL RESULTING FROM CONSTRUCTION SHALL BE WITHIN THE LIMITS SPECIFIED IN OSHA REGULATIONS AND IN ALL LOCAL ORDINANCES.

CUYAHOGA HEIGHTS ORDINANCE SECTION 632.05 SPECIFIES THAT "NO PERSON SHALL USE ANY PILE DRIVER, SHOVEL, HAMMER DERRICK, HOIST TRACTOR, ROLLER OR OTHER MECHANICAL APPARATUS OPERATED BY FUEL OR ELECTRIC POWER IN BUILDING OR CONSTRUCTION OPERATIONS BETWEEN THE HOURS OF 7:00 P.M. AND 7:00 A.M. OF THE FOLLOWING DAY OR ON SUNDAYS AND HOLIDAYS, EXCEPT FOR EMERGENCY SITUATIONS OR WHEN A SPECIAL PERMIT IS ISSUED BY THE DIRECTOR OF PUBLIC SAFETY UPON SPECIFIC AUTHORIZATION OF COUNCIL." PILE DRIVING ON THE SITE SHALL BE LIMITED THE HOURS OF 8:00 A.M. TO 4:00 P.M., MONDAY THROUGH FRIDAY.

CUYAHOGA HEIGHTS ORDINANCE SECTION 632.07 SPECIFIES THAT "NO PERSON SHALL USE, OPERATE, SELL, OR LEASE, OR OFFER FOR SALE OR LEASE, ANY POWERED EQUIPMENT OF POWERED HAND TOOL THAT PRODUCES A MAXIMUM NOISE LEVEL EXCEEDING THE FOLLOWING NOISE LEVELS AT A DISTANCE OF FIFTY FEET UNDER THE TEST PROCEDURE ESTABLISHED BY SECTION 632.12. ALL TYPES OF EQUIPMENT - 86dB(A). ANY NOISE LEVEL AND FOR ESTABLISHING A TEMPORARY WAIVER FOR THE HIGHER NOISE LEVEL AND FOR ESTABLISHING A TEMPORARY MAXIMUM NOISE LEVEL AND ITS DURATION OF TIME FOR THIS WAIVER.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET P.5 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL:	REFER TO SCHEMATIC PLAN P.3
POSITIONING METHOD:	ODOT VRS
MONUMENT TYPE:	TYPE B

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM:	NAVD 88
GEOID:	2012B

HORIZONTAL POSITIONING

REFERENCE FRAME:	NAD 83 (CORS2011)
ELLIPSOID:	GRS80
MAP PROJECTION:	LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM:	OHIO NORTH ZONE (3401)
COMBINED SCALE FACTOR:	0.999933365
ORIGIN OF COORDINATE SYSTEM:	0,0,0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

PROTECTION OF RIGHT-OF-WAY LANDSCAPING

PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY WILL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT-OF WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS). A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE.

CONSTRICT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE CONSTRUCTION LIMITS ARE IDENTIFIED AS 30 FEET FROM THE EDGE OF PAVEMENT.

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. USE OF THESE AREAS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS, AS DEFINED ABOVE, WILL BE REPLACED IN KIND OR AS APPROVED BY THE PROJECT ENGINEER.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

CITY OF CLEVELAND PERMITS

IN THE CITY OF CLEVELAND, ALL STREET PERMITS MUST BE OBTAINED FROM THE DIVISION OF ASSESSMENTS AND LICENSES PRIOR TO BEGINNING ANY WORK. STREET PERMITS INCLUDE BUT ARE NOT LIMITED TO STREET OPENING PERMITS, OVERLOAD PERMITS, OBSTRUCTION PERMITS, AND OR SIDEWALK PERMITS, AND MAY BE OBTAINED THROUGH THE FOLLOWING CONTACT:

CITY OF CLEVELAND
DEPARTMENT OF FINANCE
DIVISION OF ASSESSMENTS AND LICENSES
601 LAKESIDE AVENUE, ROOM 122
CLEVELAND, OHIO 44114
PHONE: (216) 664-2260 / (216) 664-2174
FAX: (216) 664-4592
E-MAIL: DALPERMITS@CLEVELANDOHO.GOV

NO PERMIT FEES WILL BE ASSESSED TO ODOT PROJECTS. ANY REFERENCE TO "CONTRACTOR" IN THE PERMIT APPLICATION SHALL INCLUDE "ON BEHALF OF ODOT"

DAL HAS ASSIGNED STP NUMBER STPXXXXXX TO THIS PROJECT. THE CONTRACTOR SHALL CONTACT DAL AS DESCRIBED ABOVE USING THE GIVEN STP NUMBER FOR REFERENCE.

THE CONTRACTOR SHALL COMPLY WITH ALL OTHER CITY OF CLEVELAND ORDINANCES INCLUDING BUT NOT LIMITED TO REGISTRATION REQUIREMENTS. ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR PERTINENT WORK ITEMS.

ENBRIDGE - PIPELINE PROTECTION

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE LATERAL AND SUBJACENT SUPPORT OF ENBRIDGE'S PIPELINE(S), IN COMPLIANCE TO 29 CFR, PART 1926, SUBPART P, (SAFE EXCAVATION & SHORING). ONE-FOOT MINIMUM VERTICAL AND HORIZONTAL CLEARANCE MUST BE MAINTAINED BETWEEN ENBRIDGE'S EXISTING PIPELINE(S) AND ALL OTHER IMPROVEMENTS. EXTREME CARE SHOULD BE TAKEN NOT TO HARM ANY DEO FACILITY (PIPELINES, ETC.) OR APPURTENANCE (PIPE COATING, TRACER WIRE, CATHODIC PROTECTION TEST STATION WIRES & DEVICES, VALVE BOXES, ETC.). DEO FACILITIES MUST BE PROTECTED WITH A TARP DURING BRIDGE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE AND LIABLE FOR ENSURING THAT ALL DEO EXISTING FACILITIES, ABOVE AND BELOW GROUND, REMAIN UNDAMAGED, ACCESSIBLE AND IN WORKING ORDER. THE CROSSING OF DEO'S PIPELINE WITH ANOTHER STEEL FACILITY MAY CREATE A POTENTIAL CORROSION ISSUE FOR THE PROPOSED FACILITY AND EXISTING DEO FACILITY. PLEASE CONTACT ENBRIDGE'S CORROSION DEPARTMENT: DAVE CUTLIP (330-266-2121), RICK MCDONALD (330-266-2122), OR AL HUMRICHOUSER (330-478-3757).

DEO = THE EAST OHIO GAS COMPANY
DBA ENBRIDGE, 1-800-362-7557

MONUMENT ASSEMBLIES

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET NO. RW.9.

ITEM 206- MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOIL

THE FOLLOWING QUANTITY IS PROVIDED TO ADDRESS LOCATIONS REQUIRING CHEMICALLY STABILIZED SOIL.

ITEM 206 - MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOIL LUMP SUM

FIRST ENERGY TRANSMISSION FACILITIES

MULTIPLE 138,000 VOLTS NOMINAL (144,900 VOLTS MAXIMUM) FIRST ENERGY TRANSMISSION FACILITIES ARE LOCATED WITHIN THE PROJECT AREA. THERE IS AN OVERHEAD CROSSING (JUNIPER-JENNINGS 138 KV Q-16) BETWEEN GRANT AVE. AND HARVARD AVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THERE IS NO OVERNIGHT PARKING OR STOCKPILING OF MATERIALS AND DEBRIS WITHIN THE FE/CEI RIGHT OF WAY.

IF ANY REVISIONS TO THE SUBMITTED PLANS OR CHANGES DURING CONSTRUCTION OCCUR WITHIN THE TRANSMISSION RIGHT-OF-WAY, WORK SHALL CEASE, AND REVISIONS MUST BE RESUBMITTED FOR REVIEW AND APPROVAL. IT IS RECOMMENDED THAT HIGH VOLTAGE SIGNS BE USED TO WARN WORKERS OF THE PRESENCE OF OVERHEAD CONDUCTORS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KNOW AND MAINTAIN ALL OSHA REQUIRED CLEARANCES WHEN WORKING NEAR OVERHEAD WIRES. THE SAG IN WIRES MAY BE GREATER AT CERTAIN TIMES OF YEAR DEPENDING ON TEMPERATURE. THE OVERHEAD WIRES SHOULD BE CONSIDERED ENERGIZED AT ALL TIMES.

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 46 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. NOTIFY THE ODOT OFFICE OF AVIATION WHEN SUBMITTING FAA FORM 7460-1.

NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND THE ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

FEDERAL AVIATION
ADMINISTRATION
SOUTHWEST REGIONAL
OBSTRUCTION EVALUATION GROUP
10101 HILLWOOD PARKWAY
FORT WORTH, TX 76177
FAX: (817) 222-5920
HTTP://CEAAA.FAA.GOV

OHIO DEPARTMENT OF
TRANSPORTATION
OFFICE OF AVIATION
2829 WEST DUBLIN-GRANVILLE RD.
COLUMBUS, OHIO 43235
OHIO.AIRPORT.PROTECTION
@DOT.OHIO.GOV

FENCE LENGTHS

THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES WILL BE IN ACCORDANCE WITH ITEM 607.

FENCE REMOVAL AND REPLACEMENT

THE PROJECT IS PERFORMING GLOBAL REPLACEMENT OF THE LIMITED ACCESS RIGHT OF WAY (L/A) FENCING. UNLESS OTHERWISE INDICATED ON THE PLANS THE CONTRACTOR SHALL REMOVE AND REPLACE THE EXISTING L/A FENCING. THE CONSTRUCTION LIMITS SHOWN ON THE PROJECT PLANS ARE BASED ON GRADING AND OTHER PHYSICAL CONSTRUCTION ACTIVITIES INDEPENDENT OF FENCE REPLACEMENT ACTIVITIES. FOR FENCE REPLACEMENT ACTIVITIES OUTSIDE OF THE CONSTRUCTION LIMITS THE CONTRACTOR SHALL LIMIT TREE CUTTING AND EARTH DISTURBING ACTIVITIES TO A MAXIMUM WIDTH OF 10', OR AS NECESSARY TO ACCESS THE FENCE, AS APPROVED BY THE ENGINEER . AT THESE LOCATIONS THE PLAN INTENT IS TO REPLACE THE L/A FENCE AT THE EXISTING FENCE LOCATIONS. ALL FENCE REPLACEMENT AND CLEARING ACTIVITIES SHALL OCCUR WITHIN THE EXISTING L/A RIGHT OF WAY OR ADJACENT MUNICIPAL RIGHT OF WAYS.

Suggest clarifying that all clearing and grubbing associated with the fence removal and replacement shall be incidental to the clearing and grubbing item.

SUBGRADE IMPROVEMENTS NEAR EXISTING UTILITIES

IN AREAS OF PROPOSED SUBGRADE IMPROVEMENTS THE CONTRACTOR SHALL VERIFY THE DEPTH OF ALL EXISTING UNDERGROUND UTILITIES AND SEWERS PRESENT TO ENSURE NO IMPACTS OR DAMAMGE DURING CONSTRUCTION. IF UTILITIES ARE PRESENT IN THE STABILIZATION AREAS THEY SHALL BE MARKED AND CARE TAKEN TO WORK AROUND THEM AND COMPLETE THE WORK TO THE SATISFACTION OF THE ENGINEER.

BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN SECTION 203.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS). NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF SECTION 203.05.

ITEM 202 - STRUCTURE REMOVED, AS PER PLAN

UNLESS OTHERWISE INDICATED IN THE PLANS, EXISTING RETAINING WALL REMOVALS SHALL BE PERFORMED TO THE EXTENT NECESSARY TO COMPLETE PROJECT WORK AND IN ACCORDANCE WITH CMS 202.03 EXCEPT WHERE THE EXISTING RETAINING WALLS WILL BE LOCATED UNDER PROPOSED PAVEMENTS, WHERE THE EXISTING WALLS SHALL BE REMOVED TO A MINIMUM DEPTH OF 3' BELOW SUBGRADE ELEVATION, OR DEEPER, AS REQUIRED TO COMPELTE PROJECT WORK. FULL REMOVAL OF RETAINING WALL STRUCTURES IS NOT ANTICIPATED AT EACH LOCATION.

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THIS WORK:

RAMP C1: ITEM 202 - STRUCTURE REMOVED, AS PER PLAN A LUMP SUM
RAMP C2: ITEM 202 - STRUCTURE REMOVED, AS PER PLAN B LUMP SUM
RAMP C3: ITEM 202 - STRUCTURE REMOVED, AS PER PLAN C LUMP SUM
CHARD AVE.: ITEM 202 - STRUCTURE REMOVED, AS PER PLAN D LUMP SUM

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

Preliminary plans - For Reference Only

GENERAL NOTES

DESIGN AGENCY
HNTB

DESIGNER	EAP
REVIEWER	KKP 02/15/22
PROJECT ID	105743
SHEET	P.25
TOTAL	P.1269

CUY-77-11.41 - PART 1

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GENERAL (CONT.)

ITEM 202 - PORTION OF STRUCTURE REMOVED AS PER PLAN (A, B, C, D, E)

EXISTING BRIDGE ABUTMENT AND PIER ELEMENTS FROM PREVIOUSLY REMOVED STRUCTURES ARE ANTICIPATED TO BE ENCOUNTERED WHEN PERFORMING PROJECT WORK INCLUDING BUT NOT LIMITED TO DRAINAGE AND OTHER CONDUIT INSTALLATIONS, SUBGRADE STABILIZATION, RETAINING WALL CONSTRUCTION, ETC.

WHERE EXISTING PARTIALLY REMOVED BRIDGE COMPONENTS ARE ENCOUNTERED THEY SHALL BE REMOVED IN ACCORDANCE WITH CMS 202.03, EXCEPT WHERE THE EXISTING BRIDGE COMPONENTS WILL BE LOCATED UNDER PROPOSED PAVEMENTS, WHERE THE EXISTING COMPONENTS SHALL BE REMOVED TO A MINIMUM DEPTH OF 3' BELOW SUBGRADE ELEVATION, OR DEEPER, AS REQUIRED TO COMPLETE PROJECT WORK. A SINGLE PAYMENT SHALL BE MADE FOR THE REMOVAL OF BRIDGE ELEMENTS AT EACH SITE, WHICH SHALL INCLUDE THE REMOVAL OF PORTIONS OF THE BRIDGE ABUTMENT FOUNDATIONS, PARTIALLY REMOVED MEDIAN PIER STEMS, AND PIER FOUNDATIONS. THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THIS WORK:

GRANT AVENUE: ITEM 202 - PORTION OF STRUCTURE REMOVED, AS PER PLAN A LUMP SUM
HARVARD AVENUE: ITEM 202 - PORTION OF STRUCTURE REMOVED, AS PER PLAN B LUMP SUM
FLEET AVENUE: ITEM 202 - PORTION OF STRUCTURE REMOVED, AS PER PLAN C LUMP SUM
PERSHING AVENUE: ITEM 202 - PORTION OF STRUCTURE REMOVED, AS PER PLAN D LUMP SUM
RAILROAD BRIDGES: ITEM 202 - PORTION OF STRUCTURE REMOVED, AS PER PLAN E (1 LUMP SUM FOR ALL FOUR EXISTING LOCATIONS) LUMP SUM

COORDINATION WITH CLEVELAND WATER POLLUTION CONTROL
(FOR SEWERS WITHIN THE CLEVELAND WATER POLLUTION CONTROL)

1. THE CONTRACTOR SHALL NOTIFY THE DIVISION OF WATER POLLUTION CONTROL (WPC) PRIOR TO THE START OF CONSTRUCTION AT 216-664-2756.
2. THE CONTRACTOR IS REQUIRED TO SUBMIT SEWER SHOP DRAWINGS TO WPC PRIOR TO THE SEWER INSTALLATION. THE DRAWINGS SHOULD INCLUDE THE SEWER PIPES, MANHOLES, CATCH BASINS AND OTHER SEWER APPURTENANCES.
3. WPC WILL INSPECT THE CITY SEWER INSTALLATION.
4. THE PROPOSED CITY SEWERS SHOULD BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY WPC. ANY DEVIATIONS FROM THE APPROVED PLANS OR SPECIFICATIONS REQUIRE A NEW SUBMITTAL REFLECTING THE CHANGES. UPON REVIEW OF THE REVISED ITEMS, WPC WILL REISSUE A NEW APPROVAL. IT IS STRICTLY PROHIBITED TO CONSTRUCT ANY CITY SEWERS UNLESS THEY ARE APPROVED BY WPC.
5. UPON COMPLETION OF THE CITY SEWER INSTALLATION, THE CONTRACTOR IS REQUIRED TO SUBMIT AS-BUILT PLANS AND A VIDEO TAPED COPY OF THE NEW CITY SEWERS. WPC RESERVES THE RIGHT NOT TO APPROVE ANY CITY SEWER THAT DOES NOT MEET THE CITY REQUIREMENTS.
6. ALL EXISTING CITY CATCH BASIN CONNECTIONS SHOULD BE TELEVISED BY THE CONTRACTOR, AND INSPECTED AND APPROVED BY WPC INSPECTOR PRIOR TO THEIR REUSE.
7. THE DIVISION OF WATER POLLUTION CONTROL (WPC) WILL COLLECT ALL CITY SEWER CASTINGS INCLUDING CATCH BASIN FRAMES AND GRATES, AND MANHOLE FRAMES AND COVERS, FOR ALL EXISTING CATCH BASINS THAT NEED TO BE ABANDONED OR REMOVED AND EXISTING MANHOLE COVERS THAT NEEDS TO BE REPLACED. THE CONTRACTOR SHALL DESIGNATE A LOCATION WHERE ALL SEWER CASTINGS ARE TO BE STORED AND SHALL COORDINATE WITH WPC FOR THE COLLECTIONS OF ALL SEWER CASTINGS STORED IN THE DESIGNATED LOCATION.
8. CONSTRUCTION STANDARDS FOR WPC SEWERS:
   A. ALL PIPES 18" IN DIAMETER AND SMALLER SHALL BE VCP, C-700 EXTRA STRENGTH WITH PREMIUM JOINTS AS PER ODOT 706.08.
   B. ALL PIPES 21" IN DIAMETER AND LARGER SHALL BE RCP. CLASS 3 WITH PREMIUM JOINTS AS PER ODOT 706.02.
   C. ALL PIPES WITH LESS THAN 3' OF COVER SHALL BE DUCTILE IRON PIPE ANSI CLASS 52, WITH PUSH ON JOINTS AND FITTING.
   D. THE REPAIR OF ALL DISTURBED CITY BRICK SEWERS SHOULD BE COORDINATED WITH WPC ENGINEER.
   E. FOR THE SEWER CONNECTION REPAIR, THE FOLLOWING GUIDELINES SHALL BE USED:
      i. REPAIR ALL DAMAGED SEWER CONNECTIONS IN KIND.
      ii. USE VCP FOR ALL REPAIRED/RELOCATED SEWER CONNECTIONS.
      iii. ALL SEWER REPAIRED/RELOCATED CONNECTIONS SHOULD BE LAID AT NO LESS THAN 1% GRADE.
      iv. THE MINIMUM SIZE FOR A SEWER CONNECTION SHOULD BE 6".
      v. A MINIMUM COVER OF 3 FEET IS REQUIRED FOR ALL PROPOSED SEWER CONNECTIONS.
      vi. A 6" VCP TEST TEE MAY BE REQUIRED FOR A RELOCATED SEWER CONNECTION.
      vii. NO HORIZONTAL BENDS ARE ALLOWED FOR SEWER CONNECTIONS.

PAYMENT FOR WORK DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT BID ITEMS.

COOPERATION BETWEEN CONTRACTORS

IN ACCORDANCE WITH C&MS 105.08, THE CONTRACTOR SHALL COOPERATE AND COORDINATE WITH THE CONTRACTORS ON OTHER PROJECTS THAT MAY BE ONGOING DURING THE LIFE OF THE CONTRACT AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL MAKE EVERY ATTEMPT OT MINIMIZE DELAY AND/OR CONFLICTS TO OTHER PROJECTS.

ITEM 619 FIELD OFFICE, TYPE C, AS PER PLAN

ALL REQUIREMENTS OF C&MS 619 SHALL APPLY EXCEPT AS MODIFIED HEREIN:

THE FIELD OFFICE SHALL BE A SUITE TYPE OFFICE (NO TRAILER OR MODULAR OFFICE) WITH A MINIMUM OF 4,000 SQUARE FEET AND AT GROUND LEVEL WITH A MINIMUM CEILING HEIGHT OF EIGHT (8) FEET. PROVIDE TWO (2) OUTSIDE DOORS, LOCKABLE VANDAL PROOF CYLINDER TYPE DEAD BOLTS AND LOCKABLE WINDOWS. THE FLOOR SPACE WILL BE DIVIDED INTO TWO RESTROOMS, ONE GENERAL OFFICE AREA (MINIMUM 400 SQUARE FEET), NOT LESS THAN SEVEN INDIVIDUAL OFFICES (MINIMUM 300 SQUARE FEET EACH) AS SEPARATE ENCLOSED ROOMS (NO CUBICLE DIVIDERS WILL BE ACCEPTED), ONE KITCHEN SPACE INCLUDING SINK, REFRIGERATOR, AND MICROWAVE, AND ONE CONFERENCE ROOM (MINIMUM 1000 SQUARE FEET).

FURNISH NEAT, SANITARY, ENCLOSED TOILET ACCOMMODATIONS CONNECTED TO AN EXISTING SANITARY SEWER LINE FOR THE USE OF THE OCCUPANTS OF THE FIELD OFFICE, MEETING APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. FURNISH ASSOCIATED LAVATORY AND SANITARY SUPPLIES. POTABLE HOT AND COLD RUNNING WATER WILL BE PROVIDED IN THE RESTROOM FOR SANITARY PURPOSES.

FURNISH TRASH COLLECTION SERVICE / DUMPSTER.

FURNISH PROFESSIONAL, BONDED, AND INSURED JANITORIAL SERVICE WITH A WEEKLY CLEANING OF THE ENTIRE OFFICE TO INCLUDE THE RESTROOM FACILITIES FOR THE DURATION OF THE PROJECT.

FURNISH BOTTLED DRINKING WATER SERVICE WITH A HOT AND COLD DISPENSER AND ASSOCIATED SUPPLIES.

FURNISH A BOX FOR STORING A NUCLEAR DENSITY GAUGE WITH REQUIREMENTS AS SET FORTH IN C&MS 619.02.

FURNISH AND MAINTAIN A BROADBAND INTERNET CONNECTION CAPABLE OF MINIMUM DOWNLOAD SPEEDS OF 1.0 Gb/S. PROVIDE A WIRELESS ROUTER THAT SUPPORTS WI-FI STANDARD 802.11Ax (WIFI 6) AND A MINIMUM WIRELESS DATA TRANSFER RATE OF 4000 Mb/S. PROVIDE PRE-WIRED ETHERNET ACCESS FOR ALL INDIVIDUAL OFFICES AND THE CONFERENCE ROOM.

FURNISH TEN (10) DESK AND CHAIR SETS, THIRTY (30) STACKABLE CHAIRS, TWENTY (20) WORK TABLES (30" X 72"), AND TWELVE (12) 24-QUART WASTE BASKETS WITH APPROPRIATE SIZED TRASH BAGS.

FURNISH AND INSTALL TWO (2) WALL-MOUNTED 8' X 4' GLASS, MAGNETIC DRY ERASE BOARDS

FURNISH ONE NEW TELEVISION WITH THE FOLLOWING SPECIFICATIONS:
   a)DIAGONAL SCREEN SIZE – 70" MINIMUM
   b)NATIVE RESOLUTION – 4K
   c)HDMI PORTS: 3
   d)VIDEO INTERFACES: HDMI, USB
   e)ALL ACCESSORIES NECESSARY TO OPERATE
   f)ALL HARDWARE AND INSTALLATION NECESSARY TO HANG THE TELEVISION ON THE WALL IN THE CONFERENCE ROOM

THE FIELD OFFICE WILL BE APPROVED IN ADVANCE BY THE ENGINEER AND FULLY OPERATIONAL WITHIN 30 DAYS AFTER THE SIGNING AND EXECUTION OF THE CONTRACT OR PRIOR TO THE START OF ANY CONSTRUCTION WORK, WHICHEVER COMES FIRST.

THE DEPARTMENT WILL MEASURE FIELD OFFICE, TYPE C, AS PER PLAN BY THE NUMBER OF MONTHS THE OFFICE IS MAINTAINED. A PARTIAL MONTH AT THE END OF THE PROJECT WILL BE PAID AS A FULL MONTH.

THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICE AS FOLLOWS:

ITEM 619 - FIELD OFFICE, TYPE C, AS PER PLAN 60 MNTH

STAGING AREAS

THERE ARE NO SPECIFIC AREAS GIVEN IN THE PLANS FOR THE CONTRACTOR TO USE AS A STAGING AREA(S). IF THE CONTRACTOR WANTS TO USE AN AREA(S) FOR STAGING, REGARDLESS IF IT FALLS WITHIN THE PROJECT LIMITS OR NOT, THE CONTRACTOR IS TO USE THE RIGHT OF WAY E-PERMITTING SYSTEM AT HTTPS://ODHCP.BEMCORP.NET/ACCOUNTS/ACCOUNT/ACCOUNT IN ORDER TO APPLY FOR A PERMIT PER SECTION 107.02 OF THE CMS. FOR SPECIFIC PERMITTING QUESTIONS, THE CONTRACTOR CAN CONTACT THE DISTRICT PERMITTING OFFICE, (MELVIN SAFFORD) AT 216-584-2137 , (ANDREW TAMKO) AT 216-584-2195 OR DISTRICT12PERMITS@DOT.OHIO.GOV.

IF A PERMIT IS GRANTED, ALL CONDITONS OF THE PERMIT SHALL BE MET IN ADDITION TO THE REQUIREMENTS OF 104.04 OF THE CMS, AT NO ADDITIONAL COST TO THE STATE. IF THE PROJECT ENGINEER DEEMS THAT ALL THE CONDITONS OF THE PERMIT WERE NOT MET, THEN 10% OF THE CONTRACT BID AMOUNT FOR MOBILIZATION SHALL BE WITHHELD UNTIL ALL THE CONDITIONS OF THE PERMIT ARE SATISFIED.

EQUIPMENT AND MATERIAL STORAGE

IN ORDER TO PROVIDE FOR THE SAFETY OF THE TRAVELING PUBLIC, THE CONTRACTOR'S ATTENTION IS DIRECTED TO 614.03. IN ADDITION, THE FOLLOWING PROVISIONS SHALL APPLY:

1. ANY REMOVED ITEMS SHALL NOT BE STORED ON THE RIGHT OF WAY FOR MORE THAN THIRTY (30) DAYS.
2. THE STORAGE OF EQUIPMENT, MATERIALS, AND VEHICLES WITHIN THE HIGHWAY RIGHT OF WAY WILL BE PERMITTED. THE NUMBER OF AREAS AND EXACT LOCATION SHALL BE APPROVED BY THE ENGINEER.
3. ALL DISTURBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE STATE.

ITEM 202 - REMOVAL MISC.: RAILROAD RAILS AND TIES

THIS ITEM INCLUDES REMOVAL OF RAILROAD RAILS AND TIES IN CONFLICT WITH THE PROPOSED WORK WITHIN THE CONSTRUCTION LIMITS.

PAYMENT FOR THE WORK SHALL BE MADE AT THE UNIT BID PRICE FOR ITEM 202 - REMOVAL MISC.: RAILROAD RAILS AND TIES AND SHALL INCLUDES ALL LABOR, TOOLS, EQUIPEMNT AND MATERIALS NECESSARY TO PERFORM THE WORK.

For Reference Only
Preliminary Plans - Not For Construction

GENERAL NOTES

DESIGN AGENCY
HNTB

DESIGNER
ASEP

REVIEWER
KKP 04/11/22

PROJECT ID
105743

SHEET P. 25A | TOTAL P.1269

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ROADWAY

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

ITEM 209 - RESHAPING UNDER GUARDRAIL, AS PER PLAN

THIS ITEM OF WORK SHALL BE USED TO PREPARE PROPOSED AND EXISTING GUARDRAIL RUNS FOR PAVING UNDER GUARDRAIL, INCLUDING THE REMOVAL AND DISPOSAL OF EXISTING ASPHALT UNDER GUARDRAIL.

A SAWCUT WILL BE PERFORMED, WHEN APPLICABLE, TO ASSIST THE REMOVAL OF EXISTING ASPHALT UNDER GUARDRAIL AND MINIMIZE DAMAGE TO EXISTING SHOULDER ASPHALT. PAYMENT FOR SAWCUTTING WILL BE INCLUDED IN THE BID PRICE FOR ITEM 209 – RESHAPING UNDER GUARDRAIL, AS PER PLAN.

FILL ALL HOLES REMAINING AFTER REMOVAL OF GUARDRAIL POSTS AND ANCHOR ASSEMBLIES WITH GRANULAR MATERIAL. DO NOT USE FILL MATERIAL CONTAINING SOD. ALL FILL MATERIAL SHALL BE APPROVED BY THE ENGINEER AND SHALL BE COMPACTED AS DIRECTED BY THE ENGINEER. PAYMENT FOR THE ABOVE IS INCLUDED IN THE APPLICABLE GUARDRAIL ITEM.

RESHAPE AND COMPACT SUBGRADE TO ENSURE POSITIVE DRAINAGE. ESTABLISH A CROSS-SLOPE OF 0.042 (HALF INCH PER FOOT). GRADE TO A MAXIMUM WIDTH OF 6' TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE TRAVEL LANES.

ALL COLLECTED DEBRIS AND TOPSOIL SHALL BE REMOVED AND DISPOSED OF AS SPECIFIED IN SECTION 105.17 OF THE CMS.

IN AREAS WHERE ASPHALT UNDER GUARDRAIL WILL NOT BE REPLACED, THE REMOVED MATERIAL SHALL BE REPLACED WITH COMPACTABLE GRANULAR MATERIAL CONFORMING TO 703.16 AND PLACED TO GRADE AS APPROVED BY THE ENGINEER. SEED AND MULCH THESE AREAS ACCORDING TO SECTION 659.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT BID PRICE FOR ITEM 209 – RESHAPING UNDER GUARDRAIL, AS PER PLAN AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO PERFORM THE WORK.

ITEM 209 - RESHAPING UNDER GUARDRAIL, AS PER PLAN 2.1 MILES

ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN

THIS OPERATION SHALL INCLUDE PREPARATION OF THE GRADED SHOULDER USING ITEM 209 - RESHAPING UNDER GUARDRAIL, AS PER PLAN AND PAVING UNDER THE GUARDRAIL USING ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN.

HERBICIDE SHALL BE EPA APPROVED FOR PAVING UNDER GUARDRAIL. IT SHALL BE APPLIED TO THE PREPARED AREA AFTER FINAL LEVELING AND GRADING HAS BEEN COMPLETED. THE APPLICATION SHALL BE JUST PRIOR TO PAVING AND SHALL STRICTLY ADHERE TO THE MANUFACTURER'S INSTRUCTIONS.

EACH SUCCESSFUL BIDDER MUST BE LICENSED BY THE OHIO DEPARTMENT OF AGRICULTURE AS A COMMERCIAL APPLICATOR AND ALL PERSONS INVOLVED IN THE ACTUAL SPRAYING SHALL BE LICENSED AS COMMERCIAL OPERATORS IN THE APPROPRIATE SPRAY CATEGORY.

HERBICIDE LABEL, MATERIAL SAFETY DATA SHEET AND COPY OF APPLICATORS LICENSES SHALL BE SUBMITTED TO THE ENGINEER FOR VERIFICATION PRIOR TO COMMENCING WORK.

PAVING UNDER GUARDRAIL SHALL CONSIST OF PLACING ITEM 441 TO A DEPTH OF 3" AND A MAXIMUM WIDTH OF 4' USING ONE OF THE FOLLOWING METHODS:

METHOD A:

1. *SET GUARDRAIL POSTS*
2. *PLACE ITEM 441*

METHOD B:

1. *PLACE ITEM 441*
2. *BORE ASPHALT AT POST LOCATIONS (MAY BE OMITTED IF STEEL POSTS ARE USED)*
3. *SET GUARDRAIL POSTS*
4. *PATCH AROUND POSTS. THE MATERIALS USED FOR PATCHING SHALL BE AN ASPHALT CONCRETE APPROVED BY THE ENGINEER. PATCHED AREAS SHALL BE COMPACTED USING EITHER HAND OR MECHANICAL METHODS. FINISHED SURFACES SHALL BE SMOOTH AND SLOPED TO DRAIN AWAY FROM THE POSTS.*

ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO PERFORM THE WORK OUTLINED ABOVE, WITH THE EXCEPTION OF SETTING GUARDRAIL POSTS, SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 441 – ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN.

MGS RAIL SPANNING DRAINAGE STRUCTURES

WHEN MGS RAIL IS REQUIRED TO SPAN OVER A DRAINAGE STRUCTURE, THE BELOW PROCEDURE IS TO BE FOLLOWED:

1. *IF INLET REQUIRED 1 POST TO BE MISSING, MGS RAIL SHALL BE NESTED AND A POST LOCATED ON EITHER SIDE OF THE INLET.*

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE MASH 2016 TYPE E TANGENTIAL END TREATMENTS FOR TYPE MGS GUARDRAIL AS LISTED UNDER "PRODUCTS ACCEPTED FOR NEW INSTALLATIONS" ON THE ROADWAY APPROVED PRODUCTS LIST POSTED ON ROADWAY ENGINEERING'S WEB PAGE. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. REFER TO THE POSTED SHOP DRAWINGS FOR THE MOST CURRENT APPROVED PRODUCT MODELS.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH SOLID FLUORESCENT YELLOW REBOUNDABLE RETROREFLECTIVE SHEETING, PER CMS 730.191.

WHEN THE FACE OF THE ADJACENT (ATTACHED) GUARDRAIL IS LESS THAN 4' OFFSET FROM THE PROPOSED EDGE LINE, AND PERMITTING SITE CONDITIONS EXIST: THE PROPOSED TYPE E ANCHOR ASSEMBLY SHALL BE INSTALLED AT A CONSISTENT FLARE RATE THROUGH THE FULL LENGTH OF THE SYSTEM. THE FLARE RATE SHALL BE A MAXIMUM OF 25:1 (RESULTING IN A 2' OFFSET). THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE SHOP DRAWINGS, PRODUCT INSTALLATION MANUAL/GUIDANCE, AND AS DIRECTED BY THE ENGINEER.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 607 – FENCE, TYPE CLT, AS PER PLAN A

THIS ITEM SHALL CONSIST OF CONSTRUCTING CHAIN LINK FENCE IN ACCORDANCE WITH CMS ITEM 607 AND STANDARD CONSTRUCTION DRAWING F-1.1 WITH THE FOLLOWING MODIFICATIONS:

1. *FENCE HEIGHT SHALL BE INCREASED FROM 60" TO 96"*
2. *TENSION WIRE SHALL BE OMITTED*
3. *LINE POSTS SHALL BE CONSTRUCTED AT 8' MAXIMUM SPACING AND SHALL BE: GRADE 2, 2.875" O.D. 0.203" WALL THICKNESS, 50,000 PSI YIELD STRENGTH. LINE POSTS SHALL BE EMBEDDED 36" BELOW GROUND.*
4. *END AND CORNER POSTS SHALL BE: GRADE 2, 4.0" O.D. 0.226" WALL THICKNESS, 50,000 PSI YIELD STRENGTH. END AND CORNER POSTS SHALL BE EMBEDDED 42" BELOW GROUND.*
5. *1.66" O.D. GALVANIZED STEEP PIPE, ASTM F1083 RAILS SHALL BE CONSTRUCTED AT THE TOP AND BOTTOM OF EACH FENCE PANEL*
6. *ALL FENCE POSTS SHALL BE ENCASED IN CONCRETE. LINE POST ENCASEMENT SHALL BE 12" DIAMETER, 36" DEEP. END AND CORNER POST ENCASEMENT SHALL BE 18" DIAMETER, 42" DEEP.*

ITEMS 607 – FENCE, TYPE CLT, AS PER PLAN B

THIS ITEM SHALL CONSIST OF CONSTRUCTING CHAIN LINK FENCE IN ACCORDANCE WITH CMS ITEM 607, STANDARD CONSTRUCTION DRAWING F-1.1 AND WITH THE FOLLOWING MODIFICATIONS:

1. *FENCE HEIGHT SHALL BE INCREASED FROM 60" TO 72"*
2. *FENCE SHALL BE TOPPED WITH THREE STRANDS OF BARBED WIRE ATTACHED TO 12" TALL ANGLED ARM EXTENSIONS*
3. *FENCE POSTS, HARDWARE AND VINYL-COATED CHAIN LINK FABRIC SHALL BE MEDIUM GREEN COLOR.*
4. *LINE POSTS SHALL BE: GRADE 2, 2.375" O.D., 0.154" WALL THICKNESS, 50,000 PSI YIELD STRENGTH. LINE POSTS SHALL BE EMBEDDED 36" BELOW GROUND.*
5. *END AND CORNER POSTS SHALL BE: GRADE 2, 2.875" O.D., 0.203" WALL THICKNESS, 50,000 PSI YIELD STRENGTH. END AND CORNER POSTS SHALL BE EMBEDDED 48" BELOW GROUND.*
6. *ALL FENCE POSTS SHALL BE ENCASED IN CONCRETE. LINE POST ENCASEMENT SHALL BE 12" DIAMETER, 42" DEEP. END AND CORNER POST ENCASEMENT SHALL BE 15" DIAMETER, 54" DEEP.*
7. *SEE "ROW FENCE DETAIL", SHEET P.1182 FOR ADDITIONAL DETAILS.*

ITEM 623 - MONUMENT MISC: MONUMENT REFERENCING

THE CONTRACTOR SHALL LOCATE AND REFERENCE ALL EXISTING ROADWAY AND/OR CENTERLINE MONUMENTS WITHIN THE LIMITS OF THE PROPOSED WORK FOR THE PURPOSES OF RESETTING/REESTABLISHING THEIR EXACT LOCATION IN THE EVENT THEY ARE DISPLACED OR DAMAGED DURING CONSTRUCTION. ALL WORK SHALL BE PERFORMED UNDER THE SUPERVISION OF A LICENSED SURVEYOR PROVIDED BY THE CONTRACTOR AND SHALL BE COMPLETED PRIOR TO THE START OF ANY PROXIMATE GRADING, PAVING OR OPERATIONS THAT COULD DISTURB THE MONUMENTS. CARE AND PROTECTIVE MEASURES SHALL BE EMPLOYED BY THE CONTRACTOR TO PRESERVE EXISTING MONUMENTS.

UPON LOCATING THE EXISTING MONUMENTS, THE MONUMENT IRON PINS OR DRILL HOLES IN STONE (IF MONUMENT BOX IS EMPTY, NOTIFY CITY OF CLEVELAND IMMEDIATELY) SHALL BE CAREFULLY EXPOSED AND REFERENCED TO NO LESS THAN THREE (3) PERMANENT OBJECTS. ANY EXISTING MONUMENTS THAT MIGHT REQUIRE REPLACEMENT SHALL BE NOTED. PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR SHALL DELIVER A COPY OF ALL SURVEY AND REFERENCE NOTES TO THE ENGINEER AND TO THE CHIEF SURVEYOR AT THE CITY OF CLEVELAND, DIVISION OF ENGINEERING AND CONSTRUCTION, 601 LAKESIDE AVENUE ROOM 518, CLEVELAND, OH 44114, ATTN GREG ESBER AT (216) 664-2460, GESBER@CITY.CLEVELAND.OH.US.

ITEM 623 - MONUMENT MISC: MONUMENT REFERENCING (CONT.)

ADJUSTMENTS OR REPLACEMENTS OF MONUMENT BOXES OR ASSEMBLIES MAY NOT COMMENCE UNTIL THE REFERENCES HAVE BEEN CHECKED/VERIFIED AND APPROVED BY THE ENGINEER. THE REFERENCES SHALL MEET THE FOLLOWING REQUIREMENTS:

- *CONSIST OF DURABLE POINTS OUTSIDE OF THE CONSTRUCTION LIMITS SUCH AS PK OR MAG NAILS IN POLES OR PAVEMENT, DRILL HOLES, IRON PINS, SPECIFICALLY DEFINED BUILDING CORNERS, ETC.*
- *SPECIFICALLY DEFINED AND LOCATABLE TO WITHIN 0.01 FEET.*
- *TIED TO EXISTING MONUMENT TO WITHIN 0.01 FEET. ERROR IS NOT TO EXCEED THIS AMOUNT.*
- *A MINIMUM OF THREE POINTS PER MONUMENT REFERENCED.*
- *LOCATED 100 FEET OR LESS FROM MONUMENT, SUCH THAT A STEEL TAPE COULD BE USED TO RE-ESTABLISH POSITION.*

THE PER EACH UNIT PRICE PAYMENT FOR THIS WORK SHALL INCLUDE LOCATING THE MONUMENTS, CAREFULLY CLEANING OUT THE MONUMENT BOXES AND/OR EXPOSING THE MONUMENT PINS/POINTS, REFERENCING THE MONUMENTS AND ALL RELATED NOTATION. THE FOLLOWING ESTIMATED QUANTITY IS PROVIDED IN THE GENERAL SUMMARY FOR ALL MONUMENTS KNOWN TO EXIST OR INITIALLY FOUND/ENCOUNTERED WITHIN THE WORK LIMITS:

623, MONUMENT MISC: MONUMENT REFERENCING 8 EACH

ITEM 623 - CONSTRUCTION LAYOUT STAKES, AS PER PLAN

AFTER COMPLETION OF ALL WORK, BUT PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, AN OHIO PROFESSIONAL SURVEYOR SHALL DETERMINE THE MINIMUM VERTICAL CLEARANCES OF ALL EXISTING AND NEW BRIDGES WITHIN THE PROJECT LIMITS. AT A MINIMUM, MEASUREMENTS SHALL BE TAKEN ALONG EACH FASCIA BEAM AT THE EDGE OF SHOULDERS, EDGE LINES, LANE LINES, AND CROWN OF THE ROADWAY BELOW. THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM SHALL BE USED, WHERE APPLICABLE, TO DOCUMENT THE MEASUREMENTS. WHERE THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM IS NOT APPLICABLE, THE MEASUREMENTS SHALL BE DOCUMENTED ON A CONTRACTOR-DEVELOPED FORM THAT CLOSELY RESEMBLES THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM AND ACCURATELY DEPICTS THE BRIDGE AND THE LANE AND SHOULDER CONFIGURATION OF THE ROADWAY THAT PASSES BELOW THE BRIDGE. THE COMPLETED FORM SHALL BEAR THE STAMP OR SEAL OF THE OHIO PROFESSIONAL SURVEYOR WHO HAS TAKEN THE MEASUREMENTS AND SHALL BE SUBMITTED TO THE PROJECT ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.

THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM CAN BE DOWNLOADED FROM THE FOLLOWING FTP SITE: FTP://FTP.DOT.STATE.OH.US/PUB/CONTRACTS/ATTACH/CUY-105743

ITEM 623 - MONUMENT ASSEMBLY, AS PER PLAN

WHERE DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL REMOVE THE EXISTING MONUMENT ASSEMBLY AND REPLACE IT WITH A CITY OF CLEVELAND MONUMENT ASSEMBLY AS DETAILED ON THE CITY OF CLEVELAND STANDARD CONSTRUCTION DRAWING MB-1C. THE WORK SHALL INCLUDE FURNISHING AND INSTALLING ONE (1) ONE INCH (1") DIAMETER EPOXY STEEL DEFORMED REINFORCING BAR THIRTY-SIX INCHES (36") LONG, FLAT ON TOP WITH A ROUND POINTED END.

THE CONTRACTOR SHALL HIRE COMPETENT PERSONNEL AND USE SUITABLE EQUIPMENT FOR THE WORK TO BE PERFORMED UNDER DIRECT SUPERVISION OF A PROFESSIONAL SURVEYOR, LICENSED AND REGISTERED TO PRACTICE IN THE STATE OF OHIO.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE ABOVE NOTED WORK:

623, MONUMENT ASSEMBLY, AS PER PLAN 8 EACH

ITEM 623 - MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN

WHERE MONUMENT BOXES ARE BOTH SUITABLE FOR RE-USE AND CONFORM TO THE CITY OF CLEVELAND STANDARD CONSTRUCTION DRAWING MB-1C, THEY SHALL BE ADJUSTED TO GRADE AS REQUIRED AND SPECIFIED. WHERE THE PLANS CALL FOR THE EXISTING MONUMENT BOXES TO BE REPLACED, THE CONTRACTOR SHALL REMOVE THE EXISTING MONUMENT BOX AND REPLACE IT AS DETAILED ON THE CITY OF CLEVELAND STANDARD CONSTRUCTION DRAWING MB-1C, SET TO PROPER GRADE.

CARE SHALL BE TAKEN NOT TO DISTURB EXISTING MONUMENTS DURING PAVEMENT REMOVAL OPERATIONS. CONTRACTOR SHALL UTILIZE FULL-DEPTH SAW CUTS AROUND EXISTING MONUMENTS IN BASE REPAIR AREAS WHENEVER NECESSARY TO AVOID MONUMENT DAMAGE. NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS WORK.

IN ADDITION TO ADJUSTING THE CASTING VERTICALLY, THIS PAY ITEM SHALL INCLUDE CENTERING THE CASTING OVER THE EXISTING IRON PIN OR STONE MONUMENT. THE ENTIRE MONUMENT BOX CASTING SHALL BE ADJUSTED TO GRADE; NO INSERTS OR ADJUSTING RINGS WILL BE PERMITTED. IF THE EXISTING IRON PIN OR STONE IS EITHER MISSING OR DAMAGED, A NEW MONUMENT ASSEMBLY SHALL BE INSTALLED AND PAID FOR AS ITEM 623-MONUMENT ASSEMBLY, AS PER PLAN.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE UNDER ITEM 623 - MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN.

MEDIAN BARRIER REMOVAL

REMOVAL OF PLASTIC MEDIAN HEADLIGHT DECLECTOR SHIELDS SHALL BE CONSIDERED INCIDENTAL TO ITEM 202 - CONCRETE BARRIER REMOVED. NO SEPARATE PAYMENT SHALL BE MADE.

ITEM 607 – FENCE, TYPE CLT, AS PER PLAN C

THIS ITEM CONSISTS OF INSTALLING TYPE CLT RIGHT-OF-WAY FENCE ON RETAINING WALLS AT THE LOCATIONS SPECIFIED IN THE PLANS. ALL WORK SHALL BE AS PER THE DETAILS IN THE PLANS, THE APPLICABLE PORTIONS OF STANDARD DRAWINGS F-1.1 AND TVPF-1-18, AND THE MANUFACTURER'S RECOMMENDATIONS.

INSTALL TYPE CLT FENCE IN ACCORDANCE WITH STANDARD DRAWING F-1.1 WITH ALL END POSTS AND LINE POSTS SIZED FOR INSTALLATION IN TOP-MOUNTED BASE PLATES WITH POST SLEEVES. FABRICATE AND INSTALL TOP-MOUNTED BASE PLATES WITH POST SLEEVES IN ACCORDANCE WITH STANDARD DRAWING TVPF-1-18 WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

- *THE 1/2" DIAMETER HIGH STRENGTH THREADED ANCHORS AND NUTS SHALL MEET THE MATERIAL REQUIREMENTS SPECIFIED IN THE STANDARD DRAWING FOR ADHESIVE CONCRETE ANCHORS BUT SHALL BE CAST IN PLACE WITH A 7" MINIMUM EMBEDMENT LENGTH. HEADED HIGH-STRENGTH BOLTS WITH A 2" MINIMUM THREADED LENGTH AND A 7" MINIMUM EMBEDMENT LENGTH MAY BE USED INSTEAD OF 9" LONG HIGH-STRENGTH THREADED ROD.*
- *THE HOLES IN THE 1" THICK BASE PLATES FOR 1/2" DIAMETER HIGH STRENGTH THREADED ANCHORS SHALL BE UPSIZED FROM 11/16" DIAMETER TO 5/8" DIAMETER.*
- *TEMPLATES SHALL BE USED TO ACCURATELY SET THE ANCHORS IN THE PROPOSED RETAINING WALL CAP AND MAINTAIN THEIR POSITION DURING CONCRETE PLACEMENT.*

PAYMENT FOR THE ABOVE SHALL BE AT THE UNIT PRICE BID PER FOOT FOR ITEM 607 – FENCE, TYPE CLT, AS PER PLAN C WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 606 - IMPACT ATTENUATOR, TYPE 2 UNIDIRECTIONAL

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE MASH 2016 TYPE 2 IMPACT ATTENUATORS AS LISTED UNDER "PRODUCTS ACCEPTED FOR NEW, PERMANENT INSTALLATIONS" ON THE ROADWAY APPROVED PRODUCTS LIST POSTED ON THE OFFICE OF ROADWAY ENGINEERING'S WEB PAGE (REFER TO THE POSTED SHOP DRAWINGS FOR THE MOST CURRENT APPROVED PRODUCT MODELS).

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, IMPACT ATTENUATOR, TYPE 2 [(SPEED (IN MPH), HAZARD WIDTH (IN INCHES)), (UNIDIRECTIONAL)], EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS/BACKSTOPS, TRANSITIONS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

EROSION CONTROL

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

ITEM 659, SOIL ANALYSIS TEST	*2*	*EACH*
ITEM 659, TOPSOIL	*11807*	*CY*
ITEM 659, SEEDING AND MULCHING	*106371*	*SY*
ITEM 659, REPAIR SEEDING AND MULCHING	*5319*	*SY*
ITEM 659, INTER-SEEDING	*5319*	*SY*
ITEM 659, COMMERCIAL FERTILIZER	*493*	*TON*
ITEM 659, LIME	*22*	*ACRES*
ITEM 659, WATER	*589*	*M. GAL.*
ITEM 659, MOWING	*239*	*M. SF*

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

Preliminary Plans - Not for Construction

GENERAL NOTES

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 02/15/22
PROJECT ID 105743
SHEET P.26 TOTAL P.1269

PAVEMENT

CONTRACTION JOINTS IN CONCRETE PAVEMENT OR BASE WIDENING

WHERE NEW CONCRETE IS PLACED ADJACENT TO AND TIED TO EXISTING CONCRETE, THE CONTRACTION JOINT SPACING REQUIRED IN STANDARD CONSTRUCTION DRAWING BP-2.2 WILL BE WAIVED. CONSTRUCT CONTRACTION JOINTS IN THE NEW CONCRETE PAVEMENT TO FORM A CONTINUOUS LINE WITH ALL CONTRACTION JOINTS IN THE EXISTING CONCRETE PAVEMENT. INSTALL EXPANSION JOINTS IN THE NEW CONCRETE PAVEMENT TO FORM A CONTINUOUS LINE WITH ALL EXPANSION JOINTS IN THE EXISTING CONCRETE PAVEMENT.

ITEM 302 - ASPHALT CONCRETE BASE, AS PER PLAN, 25.0 MM GYRATORY MIX

MIX DESIGN - FOLLOW THE REQUIREMENTS OF 302.02 EXCEPT AS MODIFIED BELOW:

THE TSR TEST PER SUPPLEMENT 1051 IS REQUIRED AND THE MINIMUM TSR IS 0.80 FOLLOWING THE 150 MM GYRATORY COMPACTED SPECIMEN PROCEDURE. USE ANTISTRIP ADDITIVE AS SPECIFIED IN 440.06.

USE 150 MM DIAMETER SUPERPAVE GYRATORY COMPACTOR MOLDS. FILL MOLDS DURING COMPACTION IN ONE LIFT AND NOT TWO AS YOU WOULD DO WITH 302 MIXES. DO NOT SPADE. VOLUMETRIC PILL HEIGHTS OF 110 TO 120 MM. USE A PILL HEIGHT OF 95 MM FOR STABILITY AND FLOW AND CONVERT, IF NEEDED, USING TABLE 302-02-2.

REPLACE TABLE 302-02-1 WITH THE FOLLOWING:

302 ASPHALT CONCRETE BASE, AS PER PLAN, 25.0 MM GYRATORY MIX (CONT.)

TABLE 302.02-1 MIX COMPOSITION

PROPERTY	LIMITS
1 1/2 INCH (37.5 MM)[1]	100
1 INCH (25.0 MM)[1]	90 TO 100
3/4 INCH (19.0 MM) [1][2]	90 MAX
1/2 INCH (12.5 MM)[1][2]	
3/8 INCH (9.5 MM)[1] [2]	
NO. 8 (2.36 MM)[1]	19 TO 45
NO. 200 (75 µM) [1]	1 TO 7
ASPHALT BINDER [3]	4.1 5.5 [4]
DESIGN GYRATIONS [5]	50
STABILITY, LB [6] (N)	3000 (13,345) [MIN]
FLOW, 0.25 MM [6]	28 [MAX]
DESIGN AIR VOIDS [7]	3.5
F/A, MAX. [8]	1.2
VMA, MIN. [9]	12.0
CTINDEX, MIN. [10]	60

[1] SIEVE, PERCENT PASSING
[2] PROVIDE AGGREGATE TO RETAIN A MINIMUM OF 7 PERCENT OF THE MATERIAL ON EACH OF THESE SIEVES. THIS REQUIREMENT APPLIES TO THE GRADATION OF THE JMF ONLY.
[3] PERCENT OF TOTAL MIX. MINIMUM VIRGIN ASPHALT BINDER CONTENT IS 2.2% FOR METHOD 1 AND 2.0% FOR METHOD 2.
[4] PERCENT OF TOTAL MIX
[5] NINI AND NMAX DO NOT APPLY.
[6] ASTM D5581
[7] PERCENT, SUPPLEMENT 1036
[8] CALCULATE THE F/A RATIO USING THE EFFECTIVE ASPHALT BINDER CONTENT.
[9] PERCENT, SUPPLEMENT 1037
[10] PERFORM THE IDEAL-CT AND REPORT RESULTS ACCORDING TO SUPPLEMENT 1033

QUALITY CONTROL AND ACCEPTANCE - FOLLOW THE REQUIREMENTS AS SPECIFIED IN 403 USING 446 ACCEPTANCE EXCEPT AS MODIFIED BELOW:

RUN MSG AND AIR VOIDS AND FOLLOW 403.06.G INSTEAD OF 403.06.F.

TABLE 403.06-1

MIX CHARACTERISTIC	OUT OF SPECIFICATION LIMITS
ASPHALT BINDER CONTENT[1]	-0.30% TO 0.30%
1/2 INCH (12.5 MM) SIEVE[2]	-6% TO 6%
NO. 4 (4.75 MM) SIEVE[2]	-5% TO 5%
NO. 8 (2.36 MM) SIEVE[2]	-4% TO 4%
NO. 200 (75 M) SIEVE[2]	-2.0% TO 2.0%
AIR VOIDS	2.5% TO 4.5%
MSG[3]	-0.012 TO 0.012
F/A[4]	1.2 MAX
VMA	11.5 MIN

[1] DEVIATION FROM THE JMF.
[2] FOR DESIGN AIR VOIDS OF 3.5%. USE A GYRATORY COMPACTOR.
[3] DEVIATION FROM THE MTD.
[4] CALCULATE THE F/A RATIO USING THE EFFECTIVE ASPHALT BINDER CONTENT.
[5] DO NOT FOLLOW THE MINIMUM 7% RETAINED DURING PRODUCTION PER 403.06.F.5.

FOLLOW REQUIREMENTS OF 446 AND REPLACE MSG COMPARISON IN TABLE 403.10-1 WITH 0.012.

FOR INFORMATION ONLY AND WHEN REQUESTED BY THE DEPARTMENT UP TO FIVE DIFFERENT PRODUCTION DAYS, HOT-COMPACT 10 GYRATORY SPECIMENS PER SUPPLEMENT 1033. DO NOT TEST THESE PILLS.

NOTIFY ERIC BIEHL - OMM 614-275-1380 TWO WEEKS PRIOR TO PLANNED BEGINNING PRODUCTION AND PLACEMENT. YOU MAY EMAIL THEM AS WELL.

PLACEMENT - ENSURE THE COMPACTION DEPTH OF ANY ONE LAYER IS A MINIMUM OF 4.0 INCHES AND A MAXIMUM OF 6.0 INCHES. IF THE PLAN THICKNESS IS 6.0 TO 7.75 INCHES, THE 302 MAY BE PLACED IN TWO LIFTS IF REQUESTED BY THE CONTRACTOR.

DENSITY ACCEPTANCE - FOLLOW THE REQUIREMENTS OF 446 ASPHALT CONCRETE CORE DENSITY ACCEPTANCE, INCLUDING JOINT CORES, EXCEPT AS MODIFIED BELOW:

OBTAIN 6-INCH DIAMETER CORES ON EACH LIFT PLACED.

OBTAIN JOINT CORES AT COLD LONGITUDINAL JOINTS SUCH THAT THE CORE'S CLOSEST EDGE IS 6 INCHES (152 MM) FROM THE EDGE OF THEMAT.

PAY FACTORS FOR EACH LIFT OF 302 APP WILL BE AS SPECIFIED IN THE FOLLOWING TABLE.

302 ASPHALT CONCRETE BASE, AS PER PLAN, 25.0 MM GYRATORY MIX (CONT.)

MEAN OF LOT CORE DENSITY[1]	PAY FACTOR 302, APP
>98.0%	[2]
>97.0% TO 98.0%	[3]
93.0% TO 97.0%	1.00
92.0% TO 92.9%	0.90
91.0% TO 91.9%	0.80
90.0% TO 90.9%	0.70
<90.0%	[4]

[1] MEAN OF CORES AS PERCENT OF AVERAGE MSG FOR THE PRODUCTION DAY.
[2] THE DISTRICT WILL DETERMINE WHETHER THE MATERIAL MAY REMAIN IN PLACE. THE PAY FACTOR FOR MATERIAL ALLOWED TO REMAIN IN PLACE IS 0.50.
[3] THE DISTRICT WILL DETERMINE WHETHER THE MATERIAL MAY REMAIN IN PLACE. THE PAY FACTOR FOR MATERIAL ALLOWED TO REMAIN IN PLACE IS 0.70.
[4] THE DISTRICT WILL DETERMINE WHETHER THE MATERIAL MAY REMAIN IN PLACE. THE PAY FACTOR FOR MATERIAL ALLOWED TO REMAIN IN PLACE IS 0.50.

IF MATERIAL IS REMOVED AND REPLACED THE CONTRACTOR WILL REMOVE AND REPLACE THIS COURSE AND ALL COURSES PAVED ON THIS COURSE.

PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A, (447), AS PER PLAN, PG76-22M

THE COARSE VIRGIN AGGREGATE FOR THIS ITEM SHALL BE LIMITED TO A BLEND OF AIR COOLED BLAST FURNACE SLAG (ACBFS) OR TRAP ROCK FROM ONTARIO AND LIMESTONE. THE CONTRACTOR SHALL USE A MINMUM 60% OF ACBFS OR TRAP ROCK FROM ONTARIO WITH LIMESTONE COMPRISING THE REMAINING PERCENTAGE. AT LEAST 50% OF FINE VIRGIN AGGREGATE FOR THIS ITEM SHALL BE LIMITED TO ACBFS OR TRAP ROCK FROM ONTARIO. TABLE 442.02-2 APPLIES EXCEPT NO. 4 SIEVE REQUIREMENTS ARE 52 TO 60 TOTAL PERCENT PASSING. FOR THE NO. 4 SIEVE DO NOT EXCEED 63 IN PRODUCTION.

WHEN ACBFS IS USED FOR A FRACTION OF THE COARSE AGGREGATE, PROVIDE A TOTAL ASPHALT BINDER CONTENT GREATER THAN OR EQUAL TO 6.2 PERCENT. IF ACBFS MAKES UP 100% OF THE COARSE AGGREGATE, APPLY THE BINDER CONTENT REQUIREMENTS OF C&MS 442.

STORM PIPES

THE FOLLOWING STORM PIPES WITHIN THE PAVEMENT LIMITS WILL NOT BE ABLE TO REACH THE RECOMMENDED 12" COVER AND WILL REQUIRE CHEMICAL STABILIZATION TO BE OMMITED AND THE POOR SUBGRADE SOILS TO BE UNDERCUT AND REPLACED WITH STONE AND GEOGRID.

P-56, P-57
P-154, P-155, P161, AND P-209
P-400, P-401, AND P-407

LONGITUDINAL JOINTS (FLEXIBLE PAVEMENT)

LONGITUDINAL JOINTS BETWEEN A PAVEMENT LANE AND ADJOINING SHOULDER OR SPEED CHANGE LANE, AND BETWEEN A SPEED CHANGE LANE AND THE ADJOINING SHOULDER SHALL BE MADE THE SAME DAY. ALL LODITUDINAL JOINTS SHALL BE HOT WITH THE EXCEPTION OF ONE COLD JOINT PER ROADWAY. LOCATE THE COLD JOINT ALONG THE CENTERLINE OR LANE LINE. LONGITUDINAL JOINT LOCATIONS SHALL BE AS APPROVED BY THE ENGINEER. EACH RAMP SHALL HAVE A MAXIMUM OF ONE LONGITUDINAL COLD JOINT LOCATED APPROXIMATED HALFWAY ACROSS THE RAMP.

ITEM 618- RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE), AS PER PLAN

FOR ALL FREEWAYS, THE LATERAL POSITION OF EDGE LINE RUMBLE STRIPS SHOWN IN SCD BP-9.1 IS REVISED AS FOLLOWS:

1. MEDIAN AND OUTSIDE SHOULDER OFFSET FOR SHOULDER LESS THAN 6': DIMENSION A AND B ARE EQUAL TO 6"

2. MEDIAN AND OUTSIDE SHOULDER OFFSET FOR SHOULDERS 6' TO 12': DIMENSION A AND B ARE EQUAL TO HALF THE SHOULDER WIDTH MINUS 12".

3. MEDIAN AND OUTSIDE SHOULDER OFFSET FOR SHOULDERS GREATER THAN 12': DIMENSION A AND B ARE EQUAL TO 5'

CONTRACTION AND/OR EXPANSION JOINTS

ALTHOUGH SPECIFIC LOCATIONS OF CERTAIN CONTRACTION AND EXPANSION JOINTS HAVE BEEN DETAILED ON THIS PLAN, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. IN ALL CASES, THE PROVISION OF EXPANSION JOINTS AT ALL MAJOR STRUCTURES INCLUDING THE MAXIMUM SPACING BETWEEN CONTRACTION JOINTS IS IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING BP-2.2 AND THE SPECIFICATIONS.

ENVIRONMENTAL

EXISTING MONITORING WELLS

EXISTING MONITORING WELLS MAY BE PRESENT WITHIN THE LIMITED ACCESS OR HARVARD AVENUE RIGHT OF WAY AT THE BP GAS STATION AT 4910 HARVARD AVENUE, NEWBURGH HEIGHTS. THE CONTRACTOR SHALL AVOID IMPACTS TO THE MONITORING WELLS. IF DEEP EXCAVATION IS REQUIRED ADJACENT TO THIS SITE A PRE-CERCLA SCREENING WILL BE REQUIRED.

ASBESTOS

A CERTIFIED ASBESTOS HAZARD EVALUATION SPECIALIST SURVEYED THE FOLLOWING STRUCTURES.

1. CHARD PEDESTRIAN BRIDGE OVER I-77 (SFN 1806548)
2. MORGANA RUN BRIDGE CARRYING I-77 OVER MORGANA RUN (SFN 1806572)
3. RUFFINI COURT BRIDGE CARRYING I-77 OVER RUFFINI COURT (SFN 1806610)
4. RETAINING WALLS BETWEEN STA 99+00 THROUGH STA 174+00 (SEE ASBESTOS REPORT FOR EXACT LOCATIONS)

THE SURVEY DETERMINED THAT NO ASBESTOS IS PRESENT ON THE BRIDGE STRUCTURES AND RETAINING WALLS. ODOT SHALL PROVIDE A COPY OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NOTIFICATION OF DEMOLITION AND RENOVATION FORM, PARTIALLY COMPLETED AND SIGNED BY THE BRIDGE OWNER, TO THE SUCCESSFUL BIDDER. THE CONTRACTOR SHALL COMPLETE THE FORM AND SUBMIT IT TO ONE OF THE ADDRESSES BELOW AT LEAST TEN (10) WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION AND/OR RENOVATION.

ASBESTOS PROGRAM OHIO EPA, DAPC
P.O. BOX 1049
COLUMBUS, OH 43216-1049

ASBESTOS PROGRAM OHIO EPA, DAPC
50 W. TOWN ST., SUITE 700
COLUMBUS, OH 43215

THE CONTRACTOR SHALL PROVIDE A COPY OF THE COMPLETED FORM TO THE ENGINEER AT LEAST TEN (10) WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION AND/OR RENOVATION. THE FORM SHALL INCLUDE: 1) THE CONTRACTORS NAME AND ADDRESS, 2) THE SCHEDULED DATES FOR THE START AND COMPLETION OF THE BRIDGE REMOVAL AND 3) A DESCRIPTION OF THE PLANNED DEMOLITION WORK AND THE METHOD(S) TO BE USED. COPIES OF THE OEPA FORM AND BRIDGE INSPECTION REPORT ARE AVAILABLE FOR REVIEW AT [THE ODOT DISTRICT 12 OFFICE, 5500 TRANSPORTATION BLVD., GARFIELD HEIGHTS, OHIO 44125. BASIS FOR PAYMENT THE CONTRACTOR SHALL FURNISH ALL FEES, LABOR, AND MATERIAL NECESSARY TO COMPLETE AND SUBMIT THE OEPA NOTIFICATION FORM. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN ITEM 202 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN

ECOLOGICAL

1) ENSURE IMPACTS TO THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT AND THE STATE LISTED AND PROTECTED LITTLE BROWN BAT AND TRICOLORED BAT ARE AVOIDED AND MINIMIZED. DO NOT REMOVE TREES FROM APRIL 1 THROUGH SEPTEMBER 30. PERFORM ALL NECESSARY TREE REMOVAL FROM OCTOBER 1 THROUGH MARCH 31. DEMARCATE CLEARING LIMITS IN THE FIELD TO AVOID ANY UNAUTHORIZED TREE CLEARING. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

2) IT IS THE INTENT OF THE PROJECT TO MINIMIZE TREE CLEARING ACTIVITIES AND EARTH DISTURBED AREAS TO THE EXTENT POSSIBLE. THE CONTRACTOR SHALL LIMIT TREE CUTTING AND CLEARING ACTIVITIES TO THAT REQUIRED TO CONSTRUCT THE PROJECT. FOR FENCE REPLACEMENT AREAS BEYOND THE CONSTRUCTION LIMITS, THE CONTRACTOR SHALL LIMIT TREE CUTTING AND CLEARING ACTIVITIES TO A 10' SWATH WIDTH, SEE NOTE "FENCE REMOVAL AND REPLACEMENT". THE CONTRACTOR SHALL MARK ALL TREES TO BE REMOVED FOR APPROVAL BY THE ENGINEER PRIOR TO PERFORMING TREE CUTTING ACTIVITIES.

PERMITS - WATERWAY PERMITS

1) ODOT WILL OBTAIN ALL APPROPRIATE WATERWAY PERMITS PRIOR TO ANY WORK WITHIN THE JURISDICTIONAL BOUNDARY OF ANY WATERWAY, INCLUDING WETLANDS, AND ALL WATERWAY PERMIT SPECIAL PROVISIONS WILL BE NOTED UNDER SPECIAL PROVISIONS IN THE PLANS AND ADHERED TO DURING CONSTRUCTION.

2) DO NOT PERFORM ANY WORK WITHIN THE JURISDICTIONAL BOUNDARIES OF ANY WATERWAY, INCLUDING WETLANDS, UNTIL ODOT OBTAINS THE NECESSARY WATERWAY PERMIT(S). WORK INCLUDES THE PLACEMENT OF ANY TEMPORARY OR PERMANENT FILLS.

3) THE CONTRACTOR SHALL ADHERE TO ALL APPROPRIATE WATERWAY PERMIT SPECIAL PROVISIONS THROUGHOUT CONSTRUCTION.

SECTION 4(F)

1) THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE EXISTING MORGANA RUN TRAIL TO E49TH STREET AT ALL TIMES DURING CONSTRUCTION. DURING CONSTRUCTION OF THE EAST MULTI-USE PATH THE CONTRACTOR SHALL UTILIZE FLAGGERS AND/OR PARTIAL WIDTH CLOSURES, AS APPROVED BY THE ENGINEER TO MAINTAIN ACCESS ALONG THE EXISTING MORGANA RUN TRAIL.

2) TEMPORARY CONSTRUCTION FENCING SHALL BE INSTALLED ALONG THE CONSTRUCTION LIMITS ADJACENT TO THE EXISTING MORGANA RUN TRAIL PRIOR TO THE START OF CONSTRUCTION ACTIVITIES TO PROTECT THE EXISTING 4(F) PROPERTY AND THE PUBLIC. SEE MT-110.10 FOR DETAILS OF THE FENCING.

3) APPROPRIATE SIGNAGE SHALL BE INSTALLED TO ALERT USERS OF THE MORGANA RUN TRAIL OF CONSTRUCTION ACTIVITIES, AND ACCESS RESTRICTIONS.

4) THE CONTRACTOR SHALL BE REQUIRED TO CLOSELY COORDINATE THE CONSTRUCTION SCHEDULE WITH ODOT AND THE OFFICIAL WITH JURISDICTION (OWJ) PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. THE OWJ CONTACT INFORMATION IS:

FRANK D. WILLIAMS, MPA
CITY OF CLEVELAND
DIRECTOR, PUBLIC WORKS
FWILLIAMS3@CLEVELANDOHIO.GOV
PHONE 216-664-2485
MOBILE 216-857-1815

EXCAVATION AT PARCEL 131-13-002

SOILS AT CLEVELAND CLIFFS STEELWORKS RAILWAY INC (F.K.A. CLEVELAND ISG WORKS WHEELING), AUDITOR PARCEL NUMBER 131-13-002, ARE ABOVE THE VAP RESIDENTIAL STANDARDS. ANY EXCAVATED MATERIALS FROM THIS PROPERTY MAY BE REUSED IN THE PROJECT. IF THESE MATERIALS CAN'T BE REUSED ON THE PROJECT, THEY ARE TO BE DISPOSED OF AS A SOLID WASTE. ALL EXTRA COSTS FOR OFF SITE DISPOSAL, IF REQUIRED, SHALL BE THE RESPONSILITY OF THE CONTRACTOR.

Preliminary Plans - For Reference Only

GENERAL NOTES

CUY-77-11.41 - PART 1
MODEL: GN3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:33:45 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GN001.dgn

DESIGN AGENCY
HNTB
DESIGNER EAP
REVIEWER KKP 02/15/22
PROJECT ID 105743
SHEET P.27 TOTAL P.1269

MAINTENANCE OF TRAFFIC

ITEM 614, MAINTAINING TRAFFIC

I.R. 77 NORTHBOUND AND SOUTHBOUND (PREPHASE, 2027)
A MINIMUM OF 3 LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, ITEM 615 ROADS FOR MAINTAINING TRAFFIC AND TEMPORARY SURFACES USING ITEM 614. REDUCTIONS TO THE NUMBER OF LANES WILL BE PERMITTED PER THE PLCS. SEE THE PLCS NOTE FOR MORE DETAILS. SEE NOTE "I.R. 77 FULL CLOSURES" FOR DETAILS OF PERMITTED FULL CLOSURES OF I.R. 77 NORTHBOUND AND/OR SOUTHBOUND DURING THE LIFE OF THE PROJECT. THE CONTRACTOR SHALL BE ASSESSED ROAD USER COSTS PER THE LANE VALUE CONTRACT TABLE FOR LANE CLOSURES THAT EXTEND BEYOND THE TIME PERIODS SPECIFIED IN THE PLANS AND PLCS. ROAD USER COST ASSESSMENT SHALL BE FOR EVERY MINUTE THE LANE REMAINS CLOSED BEYOND THE SPECIFIED LIMIT.

I.R. 77 NORTHBOUND AND SOUTHBOUND (PHASES 1-3)
A MINIMUM OF 2 LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT, ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, ITEM 615 ROADS FOR MAINTAINING TRAFFIC AND TEMPORARY SURFACES USING ITEM 614. REDUCTIONS TO THE NUMBER OF LANES WILL BE PERMITTED PER THE PLCS. SEE THE PLCS NOTE FOR MORE DETAILS. SEE NOTE "I.R. 77 FULL CLOSURES" FOR DETAILS OF PERMITTED FULL CLOSURES OF I.R. 77 NORTHBOUND AND/OR SOUTHBOUND DURING THE LIFE OF THE PROJECT. THE CONTRACTOR SHALL BE ASSESSED ROAD USER COSTS PER THE LANE VALUE CONTRACT TABLE FOR LANE CLOSURES THAT EXTEND BEYOND THE TIME PERIODS SPECIFIED IN THE PLANS AND PLCS. ROAD USER COST ASSESSMENT SHALL BE FOR EVERY MINUTE THE LANE REMAINS CLOSED BEYOND THE SPECIFIED LIMIT.

GRANT AVENUE (PRE-PHASE, 2027)
A MINIMUM OF 2 LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 60 CALENDAR DAYS WHEN THE SOUTH CURB LANE MAY BE CLOSED PER MT-95.40 TO COMPLETE BRIDGE REPAIRS AND CURB RAMP WORK ALONG THE SOUTH EDGE OF GRANT AVENUE. DURING THE CURB LANE CLOSURE THE SOUTH SIDEWALK SHALL BE CLOSED AND PEDESTRIAN TRAFFIC DETOURED TO THE CURB LANE. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE LANE REMAIN CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

GRANT AVENUE (PHASE 1B)
A MINIMUM OF 2 LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE NORTH CURB LANE OF GRANT AVENUE MAY BE CLOSED PER MT-95.40 TO COMPLETE BRIDGE REPAIRS AND CONSTRUCTION OF RAMP A3. DURING THE CURB LANE CLOSURE THE NORTH SIDEWALK SHALL BE CLOSED AND PEDESTRIAN TRAFFIC DETOURED TO THE CURB LANE. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE LANE REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

GRANT AVENUE (PHASE 3B)
A MINIMUM OF 2 LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE NORTH CURB LANE OF GRANT AVENUE MAY BE CLOSED PER MT-95.40 TO COMPLETE BRIDGE REPAIRS AND CONSTRUCTION OF RAMP A4. DURING THE CURB LANE CLOSURE THE NORTH SIDEWALK SHALL BE CLOSED AND PEDESTRIAN TRAFFIC DETOURED TO THE CURB LANE . A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY LANES REMAIN CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

GRANT AVENUE SOUTHBOUND EXIT (RAMP A3, PRE-PHASE, 2027)
EXISTING TRAFFIC LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 10 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.62. RAMP A3 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP B3 (HARVARD AVENUE SB EXIT). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

GRANT AVENUE SOUTHBOUND EXIT (RAMP A3)
EXISTING TRAFFIC LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.62. RAMP A3 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP B3 (HARVARD AVENUE SB EXIT). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

GRANT AVENUE NORTHBOUND ENTRANCE (RAMP A4)
A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.61. RAMP A4 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP B4 (HARVARD AVENUE NB ENTRANCE) OR RAMP C3 (FLEET AVENUE NB ENTRANCE). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

HARVARD AVENUE
ALL EXISTING LANES SHALL REMAIN OPEN TO TRAFFIC.

HARVARD AVENUE SOUTHBOUND EXIT (RAMP B3, PRE-PHASE, 2027)
EXISTING TRAFFIC LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 7 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.64. RAMP B3 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP A3 (GRANT AVENUE SB EXIT) OR RAMP C2 (FLEET AVENUE SB EXIT). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

HARVARD AVENUE SOUTHBOUND EXIT (RAMP B3)
EXISTING TRAFFIC LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.64. RAMP B3 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP A3 (GRANT AVENUE SB EXIT) OR RAMP C2 (FLEET AVENUE SB EXIT). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

HARVARD AVENUE SOUTHBOUND ENTRANCE (RAMP B2, PRE-PHASE, 2027)
A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 20 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.61. RAMP B2 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP A2 (GRANT AVENUE SB ENTRANCE). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

HARVARD AVENUE SOUTHBOUND ENTRANCE (RAMP B2)
A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.61. RAMP B2 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP A2 (GRANT AVENUE SB ENTRANCE). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

HARVARD AVENUE NORTHBOUND EXIT (RAMP B1)
EXISTING TRAFFIC LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.62. RAMP B1 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP A1 (GRANT AVENUE NB EXIT). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

HARVARD AVENUE NORTHBOUND ENTRANCE (RAMP B4)
A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.64. RAMP B4 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP A4 (GRANT AVENUE NB ENTRANCE) OR RAMP C3 (FLEET AVENUE NB ENTRANCE). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

FLEET AVENUE
ALL EXISTING LANES SHALL BE OPEN AT ALL TIMES WITH THE EXCEPTION OF THE WESTBOUND CURB LANE MAYBE CLOSED WITH DRUMS PER MT-95.31 DURING OFF PEAK HOURS TO COMPLETE INSTALLATION OF NEW PEDESTRIAN SIGNALS AT RAMP C3. PEDESTRIAN SIGNALS SHALL BE INSTALLED CONCURRENTLY WITH THE PERMITTED RAMP C3 CLOSURE.

FLEET AVENUE SOUTHBOUND EXIT (RAMP C2)
EXISTING TRAFFIC LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.66. RAMP C2 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP B3 (HARVARD AVENUE SB EXIT), RAMP B4 (HARVARD AVENUE NB ENTRANCE) AND RAMP C1 (FLEET AVENUE NB EXIT). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

FLEET AVENUE NORTHBOUND EXIT (RAMP C1)
EXISTING TRAFFIC LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.65. RAMP C1 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP D1 (PERSHING AVENUE NB EXIT), RAMP D2 (PERSHING AVENUE SB ENTRANCE) AND RAMP C2 (FLEET AVENUE SB EXIT). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

FLEET AVENUE NORTHBOUND ENTRANCE (RAMP C3)
A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.67. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

EAST 49TH STREET
ALL EXISTING LANES SHALL REMAIN OPEN TO TRAFFIC EXCEPT FOR A PERIOD NOT TO EXCEED 3 CALENDAR DAYS WHEN THE ROAD MAY BE CLOSED PER MT-101.60 TO COMPLETE DEMOLITION AND REMOVAL OF THE CHARD AVENUE PEDESTRIAN BRIDGE. LOCAL ACCESS SHALL BE MAINTAINED AT ALL TIMES. PCMS SHALL BE PLACED TO DIRECT MOTORISTS TO AN ALTERNATE ROUTE DURING CLOSURE. TO COMPLETE RETAINING WALL/RIGHT-OF-WAY FENCE REHABILITATION TWO-WAY TRAFFIC SHALL BE MAINTAINED WITH FLAGGERS PER MT-97.10.

EAST 48TH STREET
TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. DURING OFF PEAK HOURS TWO-WAY TRAFFIC SHALL BE MAINTAINED WITH FLAGGERS PER MT-97.10.

CHARD AVENUE PEDESTRIAN BRIDGE/PEDESTRIAN TRAFFIC
THE CHARD AVENUE PEDESTRIAN BRIDGE SHALL REMAIN OPEN AND OPERATIONAL UNTIL THE ENGINEER PROVIDES PERMISSION TO CLOSE THE BRIDGE AND DETOUR PEDESTRIAN TRAFFIC PER SHEET P.80. IT IS THE INTENT OF THE PROJECT TO COMPLETE THE NEW CONNECTION FROM MORGANA RUN TRAIL/EAST 49TH STREET TO EAST 48TH STREET TO SIGNIFICANT COMPLETION PRIOR TO CLOSING/DEMOLISHING CHARD ROAD PEDESTRIAN BRIDGE TO MINIMIZE PEDESTRIAN DETOUR DURATIONS. DUE TO VERTICAL CLEARANCES THE CHARD ROAD PEDESTRIAN BRIDGE SUPERSTRUCTURE SHALL BE REMOVED PRIOR TO SHIFTING TRAFFIC LANES WESTWARD AND IS SHOWN REMOVED IN PHASE 1B WHEN RAMP C2 IS CLOSED. DURING PHASE 3 THE TRAIL UNDER I.R. 77 MAY BE CLOSED AND TRAFFIC DETOURED PER SHEET XX TO COMPLETE THE EAST END OF THE NEW MORGANA STRUCTURE. THE EXISTING TRAILHEAD FROM EAST 49TH STREET TO MORGANA RUN TRAIL SHALL REMAIN OPEN AT ALL TIMES.

RUFFINI COURT
ALL EXISTING LANES SHALL REMAIN OPEN TO TRAFFIC WITH THE EXCEPTION THAT DURING OFF PEAK PERIODS (AS APPROVED BY THE ENGINEER) LANE CLOSURES WITH FLAGGERS PER MT-97.10 ARE PERMITTED AND FOR A PERIOD NOT TO EXCEED 7 DAYS THE ROAD MAY BE CLOSED PER MT-101.60. A SIGNED DETOUR ROUTE WILL NOT BE PLACED HOWEVER A PCMS WILL BE PLACED AT EAST 49TH STREET DIRECTING TRAFFIC TO HEIDTMAN PARKWAY WITH A PHONE NUMBER PER THE EXISTING TRUCK ACCESS SIGNAGE THAT IS PRESENT.

PERSHING AVENUE
ALL EXISTING LANES SHALL REMAIN OPEN TO TRAFFIC.

PERSHING AVENUE SOUTHBOUND ENTRANCE (RAMP D2, PRE-PHASE, 2027)
A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 5 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET XX. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

PERSHING AVENUE SOUTHBOUND ENTRANCE (RAMP D2)
A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.69. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

PERSHING AVENUE NORTHBOUND EXIT (RAMP D1)
A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.68. RAMP D1 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP E1 (BROADWAY AVENUE NB EXIT) OR RAMP C1 (FLEET AVENUE NB EXIT. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

BROADWAY AVENUE
ALL EXISTING LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS EACH WHEN THE CURB LANE OF BROADWAY AVENUE EASTBOUND MAY BE CLOSED PER MT-95.40. CURB LANE CLOSURE SHALL BE IN PLACE CONCURRENTLY WITH THE PERMITTED RAMP CLOSURE OF RAMP E1. DURING THE CURB LANE CLOSURE THE SIDEWALK ADJACENT THE LANE CLOSURE SHALL BE CLOSED AND PEDESTRIAN TRAFFIC DETOURED PER MT-110.10 VIA THE EXISTING SIGNALIZED CROSSINGS OF BROADWAY AVENUE AT DILLE AVENUE AND FINN AVENUE. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY LANES REMAIN CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

BROADWAY AVENUE NORTHBOUND EXIT (RAMP E1)
EXISTING TRAFFIC LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.70. RAMP E1 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP D1 (PERSHING AVENUE NB EXIT). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

I.R. 77 ALTERNATE ROUTE (PRE-PHASE 1) (I.R. 77, I.R. 480, I.R. 490, S.R. 176)
TO COMPLETE MODIFICATIONS TO OVERHEAD SIGNAGE AS SHOWN IN FULL CLOSURE DETOUR PLAN USE LANE CLOSURES PER THE PLCS. THE CONTRACTOR SHALL BE ASSESSED ROAD USER COSTS PER THE LANE VALUE CONTRACT TABLE FOR LANE CLOSURES THAT EXTEND BEYOND THE TIME PERIODS SPECIFIED IN THE PLCS. ROAD USER COST ASSESSMENT SHALL BE FOR EVERY MINUTE THE LANE REMAINS CLOSED BEYOND THE SPECIFIED LIMIT.

RAMP NO.	PHASE	CLOSURE DURATION (CALENDAR DAYS)	DISINCENTIVE ($ PER DAY)
RAMP A2	PRE-PHASE 1	30	$2000
RAMP A3	PRE-PHASE 1	10	$2000
RAMP A3	PHASE 1	45	$2000
RAMP A4	PRE-PHASE 1	10	$2000
RAMP A4	PHASE 3	45	$2000
RAMP B1	PHASE 3	45	$2000
RAMP B2	PRE-PHASE 1	20	$2000
RAMP B2	PHASE 1	45	$2000
RAMP B3	PRE-PHASE 1	7	$2000
RAMP B3	PHASE 1	45	$2000
RAMP B4	PHASE 3	45	$2000
RAMP C1	PHASE 3	45	$2000
RAMP C2	PHASE 1	45	$2000
RAMP C3	PHASE 3	45	$2000
RAMP D1	PHASE 3	45	$2000
RAMP D2	PRE-PHASE 1	5	$2000
RAMP D2	PHASE 1	45	$2000
RAMP E1	PHASE 3	45	$2000

GENERAL:
ALL EXISTING LANES, INCLUDING RAMPS SHALL BE OPEN AND AVAILABLE TO TRAFFIC IN THE ORIGINAL, PHASE 2 MOT SCHEME OR PROPOSED FINAL ALIGNMENT BETWEEN OCTOBER 15 AND APRIL 1 UNLESS OTHERWISE APPROVED BY THE ENGINEER. SHOULD THE CONTRACTOR FAIL TO MEET THESE REQUIREMENTS, A DISINCENTIVE SHALL BE ASSESSED PER THE LANE VALUE CONTRACT TABLE.

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE DESIGNATED HOLIDAYS OR SPECIAL EVENTS:

NEW YEARS (OBSERVED)
MEMORIAL DAY
LABOR DAY
CHRISTMAS (OBSERVED)
GENERAL/REGULAR ELECTION DAY (NOV)
FOURTH OF JULY(OBSERVED)
THANKSGIVING

SEE ODOT PLCS FOR SPECIAL EVENTS EXCEEDING 10,000 IN ATTENDANCE.

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR SPECIAL EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR SPECIAL EVENT:	TIME ALL LANES MUST BE OPEN TO TRAFFIC:
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
GEN./REG. ELECTION	5:00 AM TUESDAY THROUGH 12:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THANKSGIVING ONLY	6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

DURING THE SAME PERIODS, MAINTAIN PEDESTRIAN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION.

NEWLY CONSTRUCTED LANE ADDITIONS, ONCE COMPLETED AND INITIALLY OPENED TO TRAFFIC, SHALL BE OPEN TO TRAFFIC DURING ALL SUBSEQUENT DESIGNATED HOLIDAYS AND SPECIAL EVENTS, AND RELATED PERIODS OF TIME, SPECIFIED ABOVE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127).

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.

Preliminary Plans - For Reference Only

DESIGN AGENCY
HNTB
DESIGNER
MTD
REVIEWER
MTR 05/01/26
PROJECT ID
105743
SHEET P.28 TOTAL P.1269

CUY-77-11.41 - PART 1
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ITEM 614, MAINTAINING TRAFFIC (CONT.)

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE

ITEM:	DURATION OF CLOSURE:	SIGN DISPLAYED TO PUBLIC:
RAMP & ROAD CLOSURES	≥ 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	≤ 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

ITEM 614,	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	250 CU. YD.
ITEM 614,	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS (UNIDIRECTIONAL)	10 EACH
ITEM 615,	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	400 SY
ITEM 622,	PORTABLE BARRIER, UNANCHORED	8000 FT

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN TRAFFIC SCD MT-101.60 DURING PERIODS IN WHICH THE ROADS ARE CLOSED TO TRAFFIC.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS SHOWN ON THE MOT PLAN SHEETS AND MT SERIES STANDARD CONSTRUCTION DRAWINGS REFERENCED:

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

APPROVED MAINTENANCE OF TRAFFIC (MOT) POLICY EXCEPTIONS

PORTIONS OF THE MOT PLANS AS DESCRIBED BELOW HAVE APPROVED MOT EXCEPTION(S) PER TRAFFIC MANAGEMENT IN WORK ZONES POLICY (21-008(P)) AND STANDARD PROCEDURE (123-001(SP)).

APPROVED MOT EXCEPTION(S) INCLUDE:
-REDUCTION OF I.R. 77 THRU LANES FROM 3 TO 2 IN EACH DIRECTION. REDUCTION SHALL APPLY TO PHASE 1, 2 AND 3 OF MAINTENANCE OF TRAFFIC AS NOTED IN THE PLAN SET.

-FULL CLOSURES OF I.R. 77 TO COMPLETE REMOVAL OF CHARD AVENUE PEDESTRIAN BRIDGE, REMOVAL AND REPLACEMENT OF OVERHEAD SIGNSAND SUPPORTS, AND OPEN TRENCHING OF NEORSD SANITARY SEWER NEAR GRANT. I.R. 77 TRAFFIC SHALL BE DETOURED AS SHOWN IN THE PLAN SET.

A MAINTENANCE OF TRAFFIC MEETING SHALL BE HELD A MINIMUM OF 30 CALENDAR DAYS PRIOR TO IMPLEMENTATION OF EACH APPROVED MOT EXCEPTION. THIS MEETING SHALL INCLUDE THE DISTRICT WORK ZONE TRAFFIC MANAGER AND [__INSERT_ APPLICABLE_LOCAL_AGENCY(IES)__] AS WELL AS THE CONTRACTOR, WORKSITE TRAFFIC SUPERVISOR (WTS) AND ANY SUBCONTRACTORS INVOLVED WITH TEMPORARY TRAFFIC CONTROL.

IN ADDITION TO ANY NOTIFICATIONS REQUIRED IN OTHER NOTES, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AT LEAST 3 BUSINESS DAYS IN ADVANCE OF IMPLEMENTATION OF THE APPROVED MOT EXCEPTION(S) REFERENCED ABOVE SO THAT THE PROJECT ENGINEER CAN SEND EMAIL NOTIFICATION TO THE OFFICE OF ROADWAY ENGINEERING, STATEWIDE TMC, DWZTM AND SPECIAL HAULING PERMITS AT LEAST 2 BUSINESS DAYS IN ADVANCE OF THE IMPLEMENTATION OF THE APPROVED MOT EXCEPTION(S) REFERENCED ABOVE. REFERENCE "EXCEPTION REQUEST APPROVAL DATED [__/__/____] FOR PID 105743" IN THE NOTIFICATION AND OTHER CORRESPONDENCE.

APPROVED MAINTENANCE OF TRAFFIC (MOT) POLICY EXCEPTIONS (CONT.)

ANY CHANGES TO THE MOT THAT IMPACT THE PREVIOUSLY APPROVED MOT EXCEPTION(S) LISTED ABOVE SHALL BE APPROVED IN WRITING BY THE MOT EXCEPTION COMMITTEE (MOTEC). IN THE EVENT THAT SUCH CHANGES ARE PROPOSED, THE REQUEST SHALL BE COORDINATED THROUGH THE DISTRICT WORK ZONE TRAFFIC MANAGER (DWZTM) A MINIMUM OF 30 CALENDAR DAYS PRIOR TO THE DESIRED IMPLEMENTATION DATE. IF THE DISTRICT AGREES WITH THE PROPOSEDCHANGES THE DWZTM SHALL SEEK APPROVAL FROM THE MOTEC. IN THE EVENT THE PROPOSED CHANGES ARE APPROVED IN WRITING, THE CLOSURES ARE STILL SUBJECT TO NOTIFICATION REQUIREMENTS WITHIN THIS NOTE PRIOR TO IMPLEMENTATION.

LANE VALUE CONTRACT TABLE

LANE/RAMP	DIRECTION	LANES	RESTRICTED TIME PERIOD	TIME UNIT	DISINCENTIVE (PER TIME UNIT PER LANE)
I.R. 77	NB	3	AS PER THE PERMITTED LANE CLOSURE SCHEDULE AND MOT POLICY EXCEPTIONS	EACH MINUTE	$325
	SB				

I.R. 77 FULL CLOSURES

FOR SELECT OPERATIONS THE FULL CLOSURE OF I.R. 77 NORTHBOUND AND/OR I.R. 77 SOUTHBOUND WILL BE REQUIRED. THE FOLLOWING OPERATIONS SHALL BE CONSIDERED.

-DEMOLITION/REMOVAL OF CHARD ROAD PEDESTRIAN BRIDGE
-REMOVAL OF EXISTING OVERHEAD SIGN SUPPORTS
-ERECTION OF PROPOSED OVERHEAD SIGN SUPPORTS AND SIGNS
-SELECT PAVEMENT, DRAINAGE, AND TRAFFIC CONTROL OPERATIONS AS APPROVED BY THE ENGINEER.

I.R. 77 SHALL BE CLOSED PER MT-99.50 AND DETOURED AS SHOWN ON SHEETS XX-XX. ENTRANCE RAMPS SHALL BE CLOSED AT THE SIDE ROAD PER MT-101.60 AND MT-98.30 IF DEDICATED TURN LANES ARE PRESENT. EXIT RAMPS SHALL ALSO BE CLOSED AT THE SIDE ROAD PER MT-101.60. FULL CLOSURES SHALL NOT OCCUR DURING HOLIDAYS OR SPECIAL EVENTS AS OUTLINED IN THE PLAN NOTES. CLOSURES SHALL BE LIMITED TO 8PM FRIDAY NIGHT TO 5AM MONDAY MORNING. CLOSURES EXTENDING BEYOND THE SPECIFIED LIMIT SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127). LEOS WITH MARKED PATROL CARS SHALL BE PRESENT TO COMPLETE THE CLOSURES.

THE CONTRACTOR SHALL SUBMIT IN WRITING TO THE ENGINEER A REQUEST TO COMPLETE A FULL CLOSURE THIRTY (30) DAYS PRIOR TO THE DESIRED CLOSURE. THE REQUEST SHALL PROVIDE THE DETAILS OF WHAT FACILITIES WILL BE CLOSED, WORK TO BE COMPLETED, ANTICIPATED WORK DURATION AND WHEN FACILITIES WILL BE REOPENED. SEE "APPROVED MAINTENANCE OF TRAFFIC (MOT) POLICY EXCEPTIONS" NOTE FOR MORE DETAILS.

RAMP CLOSURES FOR RESURFACING

THE CONTRACTOR MAY CLOSE INTERCHANGE RAMPS TO COMPLETE RESURFACING OPERATIONS (MILLING, PAVING, STRIPING). THE CLOSURES SHALL BE LIMITED TO THE HOURS OF 9PM TO 5AM AND WILL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. DETOUR ROUTES SHALL BE AS SHOWN IN THE PROJECT PLANS.

THE MOTORING PUBLIC SHALL BE GIVEN ADVANCE WARNING OF CLOSURES AT LEAST 72 HOURS IN ADVANCE THROUGH THE USE OF A PORTABLE CHANGEABLE MESSAGE SIGN. AN LEO WITH PATROL CAR (PAID FOR SEPARATELY) SHALL BE USED FOR EACH RAMP CLOSURE AND BE PRESENT FOR THE ENTIRE CLOSURE TIME.

FREEWAY ENTRANCE RAMPS SHALL BE CLOSED PER MT-101.60 WITH A PCMS DISPLAYING THE RECOMMENEDED DETOUR ROUTE.

FREEWAY EXIT RAMPS SHALL BE CLOSED WITH A PCMS ROUTING TRAFFIC TO THE NEXT EXIT AND A SECOND PCMS INDICATING A U-TURN AT THE EXIT, UNLESS DIRECTED DIFFERENTLY BY THE PROJECT ENGINEER.

FOR RAMP CLOSURES, ONE OR TWO ADDITIONAL PCMS UNITS WILL BE NEEDED AS DESCRIBED ABOVE. THESE WILL BE IN ADDITION TO THE PCMS UNITS SPECIFIED IN THE PLANS AND SHALL BE INCLUDED FOR PAYMENT IN ITEM 614 - MAINTAINING TRAFFIC.

SEQUENCE OF CONSTRUCTION

PRE-PHASE (2027) (SEE SHEETS P.84 -P.100)

WORK THIS PHASE:

I.R. 77 NORTHBOUND
-REMOVE EXISTING CURB, BARRIERS, GUARDRAILS AND INCIDENTALS NECESSARY TO COMPLETE CONSTRUCTION OF TEMPORARY SWALES AND TEMPORARY PAVEMENTS ON THE OUTSIDE OF THE NORTHBOUND SHOULDER.
-BUILD TEMPORARY SWALES, TEMPORARY PAVEMENT, TEMPORARY DRAINAGE SYSTEMS AND INCIDENTALS INCLUDING RUMBLE STRIP REMOVAL NECESSARY FOR PHASE 1 NORTHBOUND TRAFFIC PATTERN CHANGES.
-REMOVE EXISTING MEDIAN BARRIER AND INSTALL TEMPORARY CROSSOVERS.
-INSTALL NEW DMS SIGN SOUTH OF CSX OVERPASS.

I.R. 77 SOUTHBOUND
-BEGIN CONSTRUCTION OF PROPOSED RETAINING WALLS
-BEGIN CONSTRUCTION OF PROPOSED STORM SEWER MAIN AND SYSTEM.
-REMOVE EXISTING MEDIAN BARRIER AND INSTALL CROSSOVERS.
-RESTORE EXISTING DRAINAGE FEATURES, PAVEMENT AND OTHER INCIDENTAL ITEMS DISTURBED BY THE ABOVE WORK SO TRAFFIC CAN BE MAINTAINED IN FUTURE PHASES.

GRANT AVENUE
-COMPLETE REPAIRS TO THE EXISTING BRIDGE PARAPETS AND CURB RAMPS ALONG THE SOUTH SIDE OF GRANT AVENUE.

MAINTENANCE OF TRAFFIC:

I.R. 77 NORTHBOUND
-CLOSE THE OUTSIDE SHOULDER WITH PORTABLE BARRIER PER MT-95.45 AND USE OFF PEAK LANE CLOSURES PER THE PLCS AND MT-95.30.
-MAINTAIN INTERCHANGE RAMPS PER MT-98.10, MT-98.20, MT-98.21, MT-98.22 AND MT-98.28.
-UTILIZE FULL CLOSURES PER SHEETS XX-XX AND THE "I.R. 77 FULL CLOSURE" NOTE ON THIS SHEET TO COMPLETE REMOVAL OF OVERHEAD TRUSS SUPPORTS AS NOTED IN THE PLANS.

I.R. 77 SOUTHBOUND
-CLOSE THE OUTSIDE SHOULDER WITH PORTABLE BARRIER PER MT-95.45 AND USE OFF PEAK LANE CLOSURES PER THE PLCS AND MT-95.30.
-MAINTAIN INTERCHANGE RAMPS PER MT-98.10, MT-98.20, MT-98.21, MT-98.22 AND MT-98.28.
-CLOSE RAMPS AS PERMITTED PER MT-98.29, MT-98.30 AND MT-101.60.
-UTILIZE FULL CLOSURES PER SHEETS XX-XX AND THE "I.R. 77 FULL CLOSURE" NOTE ON THIS SHEET TO COMPLETE REMOVAL OF OVERHEAD TRUSS SUPPORTS AS NOTED IN THE PLANS.

GRANT AVENUE
-CLOSE THE EASTBOUND CURB LANE WITH PORTABLE BARRIER PER MT-95.41 AND AS MODIFIED IN THE PLAN SET.
-CLOSE THE WESTBOUND CURB LANE WITH DRUMS PER MT-95.31 AND AS MODIFIED IN THE PLAN SET.
-CLOSE THE SOUTH SIDEWALK AND DETOUR PEDESTRIANS TO THE NORTH SIDEWALK AS SHOWN IN THE PLANS. DETOUR WILL REQUIRE TEMPORARY CURB RAMPS, PEDESTRIAN SIGNALS AND CROSSWALKS PER MT-110.10.
-MAINTAIN RAMP A1 AND A2 PER MT-98.28 AND MT-98.10.

PHASE 1 (2028) (SEE SHEETS P.101 -P.145)

WORK THIS PHASE:

I.R. 77 SOUTHBOUND
-REMOVE THE WESTERN PORTION OF THE EXISTING MAINLINE PAVEMENT AND SOUTHBOUND INTERCHANGE RAMPS.
-REMOVE/ABANDON PORTIONS OF THE EXISTING DRAINAGE SYSTEM THAT ARE NO LONGER NEEDED.
-REMOVE EXISTING LIGHTING, TRAFFIC CONTROL AND OTHER INCIDENTALS WITHIN THE PHASE WORK LIMITS OR OTHERWISE IDENTIFIED IN THE PLANS.
-RELOCATE EXISTING 12" WATER LINE AND NEORSD SANITARY SEWER SOUTH OF GRANT AVENUE.
-BEGIN CONSTRUCTION OF NEW SOUTHBOUND MAINLINE PAVEMENT AND INTERCHANGE RAMPS. SEE BELOW FOR RAMP SEQUENCING IN PHASE 1.
-PLACE SACRIFICIAL ASPHALT SURFACE COURSE PER PLAN DETAILS ON NEW FULL DEPTH FLEXIBLE PAVEMENTS.
-COMPLETE PORTIONS OF THE PROPOSED DRAINAGE SYSTEM.
-COMPLETE RETAINING WALLS ALONG SB I.R. 77.
-REMOVE WESTERN PORTIONS OF THE EXISTING MORGANA RUN BRIDGE AND COMPLETE THE NEW PEDESTRIAN UNDERPASS.
-COMPLETE CONSTRUCTION OF THE NEW SLAVIC VILLAGE DOWNTOWN CONNECTOR TRAIL (SVDC) FROM EAST 48TH STREET TO THE MORGANA RUN TRAIL/EAST 49TH STREET TRAILHEAD.
-REMOVE THE CHARD ROAD PEDESTRIAN BRIDGE.
-REMOVE PORTIONS OF THE I.R. 77 OVERPASS AT RUFFINI COURT.
-COMPLETE PORTIONS OF NEW ITS CONDUITS FOR CCTV CAMERAS.

SEQUENCE OF CONSTRUCTION (CONT.)

PHASE 1 (2028) (SEE SHEETS P.101 -P.145) (CONT.)

MAINTENANCE OF TRAFFIC:

I.R. 77 SOUTHBOUND
-MAINTAIN TWO LANES OF TRAFFIC USING CONTRAFLOW OPERATION ON THE EXISTING PAVEMENT AND TEMPORARY CROSSOVERS COMPLETED IN PRE-PHASE. ADDITIONAL OFF PEAK LANE CLOSURES PER THE PLCS MAY BE UTILIZED WITH APPROVAL OF THE ENGINEER.
-UTILIZE FULL CLOSURES PER SHEETS XX-XX AND THE "I.R. 77 FULL CLOSURE" NOTE ON THIS SHEET TO COMPLETE REMOVAL OF CHARD ROAD PEDESTRIAN BRIDGE, NEORSD SEWER RELOCATION, AND OVERHEAD SIGN TRUSS SUPPORTS AS NOTED IN THE PLANS.

I.R. 77 NORTHBOUND
-MAINTAIN TWO LANES OF TRAFFIC USING EXISTING PAVEMENT AND ITEM 615-PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A. ADDITIONAL OFF PEAK LANE CLOSURES PER THE PLCS MAY BE UTILIZED WITH APPROVAL OF THE ENGINEER.
-UTILIZE FULL CLOSURES PER SHEETS XX-XX AND THE "I.R. 77 FULL CLOSURE" NOTE ON THIS SHEET TO COMPLETE REMOVAL OF CHARD ROAD PEDESTRIAN BRIDGE, NEORSD SEWER RELOCATION AND OVERHEAD SIGN TRUSS SUPPORTS AS NOTED IN THE PLANS.

INTERCHANGE RAMP SEQUENCE OF CONSTRUCTION
MAINTENANCE OF TRAFFIC PLANS FOR THE PROJECT DEPICT THREE SUBPHASES DURING PHASE 1. NORTHBOUND I.R. 77 REMAINS THE SAME IN ALL THREE SUBPHASES. SOUTHBOUND I.R. 77 HAS THREE CONDITIONS SHOWN IN THE SUBPHASES. PHASE 1A SHOWS THE SOUTHBOUND CONTRAFLOW MOT SCENARIO WITH ALL EXISTING INTERCHANGE RAMPS OPEN AND USING EXISTING PAVEMENT TO MAINTAIN RAMP TRAFFIC. PHASE 1B SHOWS THE SAME MAINLINE CONTRAFLOW SCENARIO (EXCEPT NEAR THE NORTH PROJECT LIMIT) BUT ALL THE RAMPS ARE SHOWN CLOSED. CLOSURE OF ALL RAMPS CONCURRENTLY WILL NOT BE PERMITTED. SUBPHASE 1B DEPICTS THE MOT COUNTERMEASURES REQUIRED AT A RAMP DURING ALLOWABLE CLOSURES. PHASE 1C SHOWS THE MAINLINE CONTRAFLOW SCENARIO AND THE MOT FOR INTERCHANGE RAMPS WHEN THEY ARE REOPENED AND TRAFFIC IS DRIVING ON PROPOSED COMPLETED PAVEMENTS PRIOR TO SHIFTING TO PHASE 2. BASED ON SEQUENCING OF RAMPS ELEMENTS FROM PHASE 1A, 1B AND 1C MAY BE IN PLACE CONCURRENTLY.

INTERCHANGE RAMPS SEQUENCING HAS BEEN ESTABLISHED TO AVOID OVERLAP OF DETOUR ROUTES FROM CONCURRENT CLOSURES, MAXIMIZE CLOSURE DURATION TO ALLOW FOR COMPLETION OF ALL SOUTHBOUND RAMPS IN PHASE 1 AND ACCOUNTS FOR ELEVATION DIFFERENTIAL BETWEEN PROPOSED AND EXISTING PAVEMENTS AT THE PHASE JOINT. THE FOLLOWING SEQUENCE IS ASSUMED IN THE PLANS. IF A DIFFERENT SEQUENCE IS DESIRED THE CONTRACTOR SHALL SUBMIT A PLAN TO THE ENGINEER FOR APPROVAL AND DEMONSTRATE HOW DETOUR ROUTES AND ELEVATION DIFFERENTIAL AT THE PHASE CONSTRUCTION JOINT WILL BE ADDRESSED. EACH GROUP WILL HAVE A 45 DAY CLOSURE/DETOUR PERIOD AFTER WHICH THE RAMPS ARE REOPENED UNLESS NOTED OTHERWISE.

GROUP 1 CLOSURES
RAMP A3 (GRANT AVENUE. SB EXIT)
RAMP B2 (HARVARD AVENUE. SB ENTRANCE)

GROUP 2 CLOSURES
RAMP C2 (FLEET AVENUE. SB EXIT)

GROUP 3 CLOSURES
RAMP B3 (HARVARD AVENUE. SB EXIT)
RAMP D2 (PERSHING AVENUE. SB ENTRANCE)

*DUE TO THE ELEVATION DIFFERENTIAL AT THE PHASE JOINT GROUP 3 RAMPS WILL NOT REOPEN IN A PHASE 1C CONDITION. WHEN THE RAMPS ARE COMPLETE SOUTHBOUND I.R. 77 AND ALL SOUTHBOUND INTERCHANGE RAMPS SHALL BE SET IN THE PHASE 2 CONDITION TO PROCEED OVER WINTER.

CHARD AVENUE PEDESTRIAN BRIDGE
-CLOSE THE BRIDGE AND DETOUR PEDESTRIAN TRAFFIC TO FLEET AVENUE PER SHEET P.80 AND MT-110.10
-TEMP CURB RAMPS PER MT-110.10
-USE FULL CLOSURE OF I.R. 77 AND EAST 49TH STREET TO COMPLETE REMOVAL OF THE BRIDGE SUPERSTRUCTURE.

Preliminary Plans - For Reference Only

MAINTENANCE OF TRAFFIC GENERAL NOTES

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.29 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:33:55 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MN001.dgn

SEQUENCE OF CONSTRUCTION (CONT.)

PHASE 2 - (2029) (SEE SHEETS P.146 -P.159)

OVERWINTER PERIODS 2028-2029 AND 2029-2030 SHALL FOLLOW PHASE 2 TRAFFIC CONFIGURATIONS SHOWN IN THE PLANS UNLESS OTHERWISE APPROVED BY THE ENGINEER.

WORK THIS PHASE:

I.R. 77 SOUTHBOUND
-REMOVE PORTIONS OF THE EXISTING PAVEMENT AND MEDIAN BARRIER.
-COMPLETE CONSTRUCTION OF NEW SOUTHBOUND PAVEMENT.
-CONSTRUCT NEW MEDIAN BARRIER. OMIT PORTIONS PER THE PLANS TO ACCOMMODATE TEMPORARY CROSSOVERS.
-CONSTRUCT MEDIAN HIGHWAY LIGHTING.
-COMPLETE ITS CONDUITS FOR CCTV CAMERAS.
-PLACE SACRIFICIAL ASPHALT SURFACE COURSE.
-COMPLETE PORTIONS OF THE PROPOSED DRAINAGE SYSTEM.
-REMOVE PORTIONS OF THE EXISTING MORGANA RUN BRIDGE.
-COMPLETE PORTIONS OF THE NEW MORGANA RUN PEDESTRIAN UNDERPASS.
-REMOVE PORTIONS OF THE I.R. 77 OVERPASS AT RUFFINI COURT.
-CONSTRUCT PROPOSED OVERHEAD SIGN TRUSS SUPPORTS THAT SPAN SOUTHBOUND I.R. 77.

I.R. 77 NORTHBOUND
-REMOVE PORTIONS OF THE EXISTING PAVEMENT AND MEDIAN BARRIER.
-BEGIN CONSTRUCTION/COMPLETE PORTIONS OF THE NEW NORTHBOUND PAVEMENT AND DRAINAGE SYSTEM.
-CONSTRUCT MEDIAN HIGHWAY LIGHTING.
-PLACE SACRIFICIAL ASPHALT SURFACE COURSE.
-COMPLETE PORTIONS OF THE PROPOSED DRAINAGE SYSTEM.
-REMOVE PORTIONS OF THE EXISTING MORGANA RUN BRIDGE.
-COMPLETE PORTIONS OF THE NEW MORGANA RUN PEDESTRIAN UNDERPASS.
-REMOVE PORTIONS OF THE I.R. 77 OVERPASS AT RUFFINI COURT.

MAINTENANCE OF TRAFFIC:

I.R.77 SOUTHBOUND
-MAINTAIN TWO LANES OF TRAFFIC ON THE NEW SOUTHBOUND PAVEMENT. ADDITIONAL OFF PEAK LANE CLOSURES PER THE PLCS MAY BE UTILIZED WITH APPROVAL OF THE ENGINEER.
-UTILIZE FULL CLOSURES PER SHEETS XX-XX AND THE "I.R. 77 FULL CLOSURE" NOTE ON THIS SHEET TO COMPLETE PLACEMENT OF OVERHEAD SIGN TRUSS SUPPORTS AS NOTED IN THE PLANS.

I.R. 77 NORTHBOUND
-SAME AS PHASE 1.

SEQUENCE OF CONSTRUCTION (CONT.)

PHASE 3 (2030) (SEE SHEETS P.160 -P.199)

WORK THIS PHASE:

I.R. 77
-REMOVE THE REMAINING PORTION OF THE EXISTING MAINLINE PAVEMENT AND NORTHBOUND INTERCHANGE RAMPS.
-REMOVE/ABANDON PORTIONS OF THE EXISTING DRAINAGE SYSTEM THAT ARE NO LONGER NEEDED.
-REMOVE EXISTING LIGHTING, TRAFFIC CONTROL AND OTHER INCIDENTALS WITHIN THE PHASE WORK LIMITS OR OTHERWISE IDENTIFIED IN THE PLANS.
-COMPLETE CONSTRUCTION OF NEW NORTHBOUND MAINLINE PAVEMENT AND INTERCHANGE RAMPS.
-COMPLETE REMAINING PORTIONS OF THE PROPOSED DRAINAGE SYSTEM.
-COMPLETE RETAINING WALLS ALONG NB I.R. 77.
-REMOVE REMAINING PORTIONS OF THE EXISTING MORGANA RUN BRIDGE AND COMPLETE THE NEW PEDESTRIAN UNDERPASS.
-COMPLETE CONSTRUCTION OF THE NEW SLAVIC VILLAGE DOWNTOWN CONNECTOR TRAIL (SVDC) FROM EAST 48TH STREET TO THE MORGANA RUN TRAIL/EAST 49TH STREET TRAILHEAD.
-REMOVE REMAINING PORTIONS OF THE I.R. 77 OVERPASS AT RUFFINI COURT.
-COMPLETE REHABILITATION OF EX. RETAINING WALL AND RIGHT-OF-WAY FENCE ALONG EAST 49TH STREET.

MAINTENANCE OF TRAFFIC:

I.R. 77 SOUTHBOUND
-SAME AS PHASE 2.

I.R. 77 NORTHBOUND
-MAINTAIN TWO LANES OF TRAFFIC USING CONTRAFLOW OPERATION ON THE PREVIOUSLY CONSTRUCTED PERMANENT PAVEMENT AND TEMPORARY CROSSOVERS. ADDITIONAL OFF PEAK LANE CLOSURES PER THE PLCS MAY BE UTILIZED WITH APPROVAL OF THE ENGINEER.
-UTILIZE FULL CLOSURES PER SHEETS P.71-P.79 AND THE "I.R. 77 FULL CLOSURE" NOTE ON THE PREVIOUS SHEET TO COMPLETE OVERHEAD SIGN TRUSS SUPPORTS AS NOTED IN THE PLANS.

INTERCHANGE RAMP SEQUENCE OF CONSTRUCTION
MAINTENANCE OF TRAFFIC PLANS FOR THE PROJECT DEPICT THREE SUBPHASES DURING PHASE 3. SOUTHBOUND I.R. 77 REMAINS THE SAME IN ALL THREE SUBPHASES. NORTHBOUND I.R. 77 HAS THREE CONDITIONS SHOWN IN THE SUBPHASES. PHASE 3A SHOWS THE NORTHBOUND CONTRAFLOW MOT SCENARIO WITH ALL EXISTING INTERCHANGE RAMPS OPEN AND USING EXISTING PAVEMENT TO MAINTAIN RAMP TRAFFIC (EXCEPT RAMPS B4 AND C1 SEE BELOW FOR MORE DETAIL) PHASE 3B SHOWS THE SAME MAINLINE CONTRAFLOW SCENARIO BUT ALL THE RAMPS ARE SHOWN CLOSED. CLOSURE OF ALL RAMPS CONCURRENTLY WILL NOT BE PERMITTED. SUBPHASE 3B DEPICTS THE MOT COUNTERMEASURES REQUIRED AT A RAMP DURING ALLOWABLE CLOSURES. PHASE 3C SHOWS THE MAINLINE CONTRAFLOW SCENARIO AND THE MOT FOR INTERCHANGE RAMPS WHEN THEY ARE REOPENED AND TRAFFIC IS DRIVING ON PROPOSED COMPLETED PAVEMENTS PRIOR TO PROJECT COMPLETION. BASED ON SEQUENCING OF RAMPS ELEMENTS FROM PHASE 3A, 3B AND 3C MAY BE IN PLACE CONCURRENTLY.

INTERCHANGE RAMPS SEQUENCING HAS BEEN ESTABLISHED TO AVOID OVERLAP OF DETOUR ROUTES FROM CONCURRENT CLOSURES, MAXIMIZE CLOSURE DURATION TO ALLOW FOR COMPLETION OF ALL NORTHBOUND RAMPS IN PHASE 3 AND ACCOUNTS FOR DIFFERENTIAL BETWEEN PROPOSED AND EXISTING PAVEMENT ELEVATION AT THE PHASE JOINT. THE FOLLOWING SEQUENCE IS ASSUMED IN THE PLANS. SEE MOT PLANS FOR REQUIRED WORK TO ALLOW TRAFFIC TO CROSS THE PHASE JOINT BETWEEN EXISTING AND PERMANENT PAVEMENT. IF A DIFFERENT SEQUENCE IS DESIRED THE CONTRACTOR SHALL SUBMIT A PLAN TO THE ENGINEER FOR APPROVAL AND DEMONSTRATE HOW DETOUR ROUTES AND ELEVATION DIFFERENTIAL AT THE PHASE CONSTRUCTION JOINT WILL BE ADDRESSED. EACH GROUP WILL HAVE A 45 DAY CLOSURE/DETOUR PERIOD AFTER WHICH THE RAMPS ARE REOPENED UNLESS NOTED OTHERWISE.

GROUP 1 CLOSURES
RAMP B4 (HARVARD AVENUE. NB ENTRANCE)
RAMP C1 (FLEET AVENUE. NB EXIT)
*DUE TO THE ELEVATION DIFFERENTIAL AT THE PHASE JOINT GROUP 1 RAMPS WILL NOT REOPEN IN A PHASE 3A CONDITION. ONCE THE OVERWINTER PERIOD IS COMPLETE AND PHASE 3 CONTRAFLOW IS TO BE IMPLEMENTED THESE RAMPS SHALL CLOSE AND BE CONSTRUCTED.

GROUP 2 CLOSURES
RAMP A4 (GRANT AVENUE. NB ENTRANCE)
RAMP B1 (HARVARD AVENUE. NB EXIT)

GROUP 3 CLOSURES
RAMP C3 (FLEET AVENUE. NB ENTRANCE)
RAMP D1 (PERSHING AVENUE. NB EXIT)

GROUP 4 CLOSURES
RAMP E1 (BROADWAY AVENUE. NB EXIT)

SEQUENCE OF CONSTRUCTION (CONT.)

POST-PHASE 3 (2030) (NO SHEETS PROVIDED)

WORK THIS PHASE:

I.R. 77
-REMOVE AND RESTORE EXISTING CROSSOVER AREAS.
-REMOVE SACRIFICIAL SURFACE COURSE ALONG THE CORRIDOR AND COMPLETE RESURFACING OPERATIONS NEAR THE NORTH PROJECT LIMIT.
-PLACE FINAL ASPHALT SURFACE COURSE.
-PLACE PERMANENT PAVEMENT MARKINGS.
-PLACE PERMANENT SIGNAGE THAT HAS NOT YET BEEN PLACED AND RESTORE SIGNAGE TO REMAIN THAT WAS PREVIOUSLY MODIFIED.

MAINTENANCE OF TRAFFIC:

I.R. 77
-PLACE TRAFFIC IN PERMANENT LANE POSITIONS. MAINTAIN THREE LANES OF TRAFFIC IN EACH DIRECTION. USE SHOULDER AND LANE CLOSURES PER THE PLCS AND MT-95.45, MT-95.30, MT-99.20 AND MT-101.90.
-INTERCHANGE RAMP CLOSURES DURING OFF PEAK HOURS WILL BE PERMITTED TO COMPLETE RESURFACING OPERATIONS. SEE NOTE "RAMP CLOSURES FOR RESURFACING" FOR MORE DETAILS.

WORK ZONE PAVEMENT MARKINGS, SPRAY THERMOPLASTIC (648.02)

THE CONTRACTOR SHALL PLACE THE WORK ZONE PAVEMENT MARKINGS, SPRAY THERMOPLASTIC, AS PER PLAN PER ODOT SPECIFICATION 614.11 AND ODOT SPECIFICATION 648 WITH THE FOLLOWING EXCEPTIONS:

1.) ODOT SPECIFICATION 648.05 SHALL BE MODIFIED TO ALLOW PLACEMENT OF THE MATERIAL AT A TEMPERATURE OF NOT LESS THAN 35 DEGREES FAHRENHEIT.

2.) ODOT SPECIFICATION 614.11A SHALL BE MODIFIED TO REPAIR AND REPLACE MARKINGS AT NO ADDITIONAL COST TO THE DEPARTMENT FOR A PERIOD OF 30 MONTHS STARTING FROM THE DATE OF ORIGINAL ACCEPTANCE OF THE MARKING. MARKING MATERIALS AND APPLICATION RATES FOR MAINTENANCE AND REPAIRS SHALL EITHER BE PER CMS 648 OR CLASS I PER CMS 614.

THE LOCATIONS TO RECEIVE SPRAY THERMOPLASTIC MARKINGS HAVE BEEN IDENTIFIED IN THE PLANS AND ESTIMATED QUANTITIES ARE INCLUDED IN THE MOT SUBSUMMARY AND GENERAL SUMMARY. LINE THICKNESS SHALL MATCH THAT SPECIFIED FOR STANDARD CLASS I MARKINGS ON THE PROJECT.

THE DEPARTMENT WILL MAKE PAYMENT FOR ACCEPTED SPRAY THERMOPLASTIC MARKINGS PER THE CONTRACT PRICES AS FOLLOWS:

ITEM 614 WORK ZONE LANE LINE, CLASS I, 6", AS PER PLAN	MILE
ITEM 614 WORK ZONE EDGE LINE, CLASS I, 6", AS PER PLAN	MILE
ITEM 614 WORK ZONE CHANNELIZING LINE, CLASS I, 12", AS PER PLAN	FT
ITEM 614 WORK ZONE DOTTED LINE, CLASS I, AS PER PLAN	FT
ITEM 614 WORK ZONE LANE ARROW, CLASS I, AS PER PLAN	EACH
ITEM 614 WORK ZONE STOP LINE, CLASS I, AS PER PLAN	FT
ITEM 614 WORK ZONE CROSSWALK LINE, CLASS I, 12", AS PER PLAN	FT

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 870 M. GAL.

ITEM 614, REPLACEMENT SIGN

FLATSHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE IN USED, BUT GOOD, CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT SIGN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ETC.

AN ESTIMATED QUANTITY OF 40 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION OF TRAFFIC RESTRICTIONS TIME TABLE

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	≥ 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	≤ 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	≥ 2 WEEKS	14 BUSINESS DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

ITEM 614, WORK ZONE CROSSOVER LIGHTING SYSTEM

THIS WORK SHALL CONSIST OF FURNISHING, ERECTING, OPERATING, MAINTAINING AND REMOVING A WORK ZONE LIGHTING SYSTEM FOR A SINGLE CROSSOVER, OR OVERLAPPING A PAIR OF CROSSOVERS. THE SYSTEM SHALL BE AS SHOWN ON TRAFFIC SCD MT-100.00. THE CONTRACTOR SHALL ARRANGE FOR AND PAY FOR POWER. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH APPLICABLE PORTIONS OF 625 AND 725 EXCEPT: THE PERFORMANCE TEST OF 625.19F, AND CERTIFIED DRAWING REQUIREMENT OF 625.06, ARE WAIVED AND USED MATERIALS IN GOOD CONDITION ARE ACCEPTABLE.

POLES WHICH ARE NOT PROTECTED BY GUARDRAIL OR PORTABLE BARRIER SHALL BE LOCATED OUTSIDE THE CLEAR ZONE, AND SHOULD BE LOCATED AT LEAST 30 FEET (PREFERABLY 40 FEET) FROM THE EDGE OF PAVEMENT WHEN POSSIBLE. ADDITIONAL POLE LINES, CABLES AND APPURTENANCES NECESSARY TO FURNISH POWER TO THE LIGHTING SYSTEM SHALL BE INCLUDED IN THIS ITEM. SERVICE POLES SHALL BE POSITIONED WITH THE SAME CONSTRAINTS AS THE LIGHTING POLES AS A MINIMUM.

PAYMENT WILL BE MADE AT THE UNIT PRICE PER EACH FOR ITEM 614, WORK ZONE CROSSOVER LIGHTING SYSTEM THROUGHOUT ALL PHASES OF WORK WHEN THE CROSSOVER ROADWAYS ARE USED.

Preliminary - Not For Construction
For Reference Only

MAINTENANCE OF TRAFFIC GENERAL NOTES

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.30 TOTAL P.1269

CUY-77-11.41 - PART 1

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MAINTENANCE OF TRAFFIC

DRUM REQUIREMENTS

IN ADDITION TO THE REQUIREMENTS OF THE PLANS, SPECIFICATION AND PROPOSAL, DRUMS FURNISHED BY THE CONTRACTOR SHALL BE NEW AND UNUSED AT THE TIME OF ARRIVAL ON THE PROJECT. ANY DRUMS BROUGHT ON THE PROJECT, WHICH HAVE PREVIOUSLY BEEN USED ELSEWHERE, WILL NOT BE ACCEPTED.

PAYMENT FOR DRUMS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED.

PERMITTED LANE CLOSURE SCHEDULE (PLCS)

LANE CLOSURE(S) SHALL CONFORM TO THE PLCS. PUBLISHED PLCS INFORMATION CAN BE FOUND ON THE ODOT WEBSITE.

THE MONTHLY PUBLISHED SCHEDULES REQUIRED TO BE USED, FOR EACH PLCS SEGMENT WITHIN THE PROJECT AREA, ARE THOSE THAT COMPRISE THE CONSECUTIVE 12-MONTH PERIOD BEGINNING 15 MONTHS PRIOR TO THE MONTH AND YEAR OF SALE AND ENDING 4 MONTHS PRIOR TO THE MONTH AND YEAR OF SALE. THESE SAME 12 MONTHS APPLY FOR THE LIFE OF THE PROJECT AND SHALL BE APPLIED TO EACH RESPECTIVE MONTH OF CONSTRUCTION (MONTH OF LANE CLOSURE(S) SHALL MATCH MONTH OF PLCS USED). LANE CLOSURE(S) IN PLACE FOR MULTIPLE MONTHS SHALL ALWAYS COMPLY WITH THE CURRENT RESPECTIVE MONTH.

(FOR EXAMPLE: IF THE SALE DATE FOR THE PROJECT WAS MARCH OF 2021, THE MONTHLY PUBLISHED SCHEDULES FOR EACH APPLICABLE PLCS SEGMENT WOULD BE DECEMBER 2019 TO NOVEMBER 2020. IF THIS WAS A THREE-YEAR PROJECT, YEAR THREE WOULD STILL BE USING THE DECEMBER 2019 TO NOVEMBER 2020 MONTHLY SCHEDULES. IF THE PROJECT DESIRED TO CLOSE TWO LANES IN JUNE 2021, REFERENCE WOULD BE MADE TO THE JUNE 2020 SCHEDULE(S) FOR THE RESPECTIVE PLCS SEGMENT(S). IF THE SAME TWO LANES WERE DESIRED TO BE CLOSED AGAIN IN JULY 2021, REFERENCE WOULD BE MADE TO THE JULY 2020 SCHEDULE(S) FOR THE RESPECTIVE PLCS SEGMENT(S).)

MORE RESTRICTIVE CHANGES TO THE ALLOWABLE LANE CLOSURE HOURS ARE AT THE DISCRETION OF THE ENGINEER IN ORDER TO COMPLY WITH THE TRAFFIC MANAGEMENT IN WORK ZONES POLICY (21-008(P)) AND STANDARD PROCEDURE (123-001(SP)).

LESS RESTRICTIVE CHANGES TO THE ALLOWABLE LANE CLOSURE HOURS ARE SUBJECT TO THE TRAFFIC MANAGEMENT IN WORK ZONES POLICY (21-008(P)) AND STANDARD PROCEDURE (123-001(SP)) AND SHALL NOT BE IMPLEMENTED UNTIL, AND UNLESS, APPROVED BY THE PROPER ODOT AUTHORITY. EXISTING MOT EXCEPTIONS THAT HAVE ALREADY BEEN APPROVED IN ACCORDANCE TO THE TRAFFIC MANAGEMENT IN WORK ZONES POLICY AND STANDARD PROCEDURE ARE DETAILED IN THE APPROVED MAINTENANCE OF TRAFFIC (MOT) POLICY EXCEPTION(S) PLAN NOTE.

ALLOWABLE LANE CLOSURE HOURS FOR FACILITIES NOT COVERED BY THE PLCS, IF ANY, SHALL BE AS SPECIFIED ELSEWHERE IN THE PLANS.

ITEM 622, PORTABLE BARRIER, 50", AS PER PLAN

THIS WORK SHALL CONSIST OF FURNISHING, MAINTAINING, AND SUBSEQUENTLY REMOVING A 50-INCH PORTABLE BARRIER AT THE LOCATIONS SHOWN ON THE PLANS. FOR DETAILS, SEE SCD RM-4.1.

PORTABLE STEEL BARRIER IS AN APPROVED ALTERNATIVE TO PORTABLE CONCRETE BARRIER. FOR INFORMATION ON APPROVED VENDORS, SEE THE APPROVED PRODUCTS LIST MAINTAINED BY THE OFFICE OF ROADWAY ENGINEERING.

PORTABLE BARRIER, 32 INCHES HIGH WITH AN 18-INCH MINIMUM HEIGHT GLARE SCREEN MAY BE USED AT THE OPTION OF THE CONTRACTOR. THE GLARE SCREEN SHALL BE CONSTRUCTED USING ONE OF THE SCREENS PROVIDED ON THE APPROVED LIST, AVAILABLE ON THE OFFICE OF ROADWAY ENGINEERING WEBSITE.

PADDLE OR INTERMITTENT TYPE GLARE SCREENS SHALL BE DESIGNED USING A 20 DEGREE CUT-OFF ANGLE BASED ON TANGENT ALIGNMENT. THAT SPACING SHALL BE USED THROUGHOUT THE BARRIER LENGTH WITHOUT REGARD TO BARRIER CURVATURE.

THE GLARE SCREEN SYSTEM SHALL BE SECURELY FASTENED TO THE 32-INCH PORTABLE BARRIER USING THE HARDWARE AND PROCEDURES SPECIFIED BY THE MANUFACTURER.

FOR DIRECTIONS ON HOW TO INSTALL THE GLARE SCREEN AND THE BARRIER, SEE THE MANUFACTURER'S INSTRUCTIONS.

PAYMENT SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND SHALL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR ITEM 622, PORTABLE BARRIER, 50", AS PER PLAN.

ITEM 622, PORTABLE BARRIER, 50", AS PER PLAN B

THIS ITEM SHALL MEET ALL THE REQUIREMENTS OF ITEM 622, PORTABLE BARRIER, 50", AS PER PLAN WITH THE EXCEPTION THAT THE BARRIER SHALL BE ANCHORED PER RM-4.2.

PAYMENT SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND SHALL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR ITEM 622, PORTABLE BARRIER, 50", AS PER PLAN B.

WORK ZONE INCREASED PENALTIES SIGN (R11-H5A)

R11-H5A-48 SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED IN GOOD CONDITION AND/OR REPLACED AS NECESSARY AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. SIGNS SHALL BE MOUNTED AT THE APPROPRIATE OFFSETS AND ELEVATIONS AS PRESCRIBED BY THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THEY SHALL BE MAINTAINED ON SUPPORTS MEETING CURRENT SAFETY CRITERIA.

THE SIGNS MAY BE ERECTED OR UNCOVERED NO MORE THAN FOUR HOURS BEFORE THE ACTUAL START OF WORK. THE SIGNS SHALL BE REMOVED OR COVERED NO LATER THAN FOUR HOURS FOLLOWING RESTORATION OF ALL LANES TO TRAFFIC WITH NO RESTRICTIONS, OR SOONER AS DIRECTED BY THE ENGINEER. TEMPORARY SIGN COVERING AND UNCOVERING DUE TO TEMPORARY LANE RESTORATIONS SHALL BE GUIDED BY THE FOUR-HOUR LIMITATIONS STATED ABOVE. SUCH LANE RESTORATIONS SHOULD BE EXPECTED TO REMAIN IN EFFECT FOR 30 OR MORE CONSECUTIVE CALENDAR DAYS, SUCH AS DURING WINTER SHUTDOWNS.

THE SIGNS ON THE MAINLINE SHALL BE DUAL MOUNTED UNLESS NOT PHYSICALLY POSSIBLE. THE FIRST SIGN SHALL BE PLACED BETWEEN THE ROAD WORK AHEAD (W20-1) SIGN AND THE NEXT SIGN IN THE SEQUENCE. SIGNS SHALL BE ERECTED ON EACH ENTRANCE RAMP AND EVERY 2 MILES THROUGH THE CONSTRUCTION WORK LIMITS. SIGNS ON THE MAINLINE SHALL BE R11-H5A-48. SIGNS USED ON THE RAMPS SHALL BE R11-H5A-24. R11-H5A-24 SIGNS MAY BE USED IN THE MEDIAN IN LIEU OF R11-H5A-48 SIGNS IF IT IS NOT PHYSICALLY POSSIBLE TO PROVIDE R11-H5A-48 SIGNS IN THE MEDIAN.

THE R11-H5A-48 SIGNS SHALL BE MOUNTED ON 2 NO. 3 POSTS WHEN LOCATED WITHIN CLEAR ZONES.

THE CONTRACTOR MAY USE SIGNS AND SUPPORTS IN USED, BUT GOOD, CONDITION PROVIDED THE SIGNS MEET CURRENT ODOT SPECIFICATIONS.

WORK ZONE INCREASED PENALTIES SIGNS AND SUPPORTS WILL BE MEASURED AS THE NUMBER OF SIGN INSTALLATIONS, INCLUDING THE SIGN AND NECESSARY SUPPORTS. IF A SIGN AND SUPPORT COMBINATION IS REMOVED AND REERECTED AT ANOTHER LOCATION AS DIRECTED BY THE ENGINEER, IT SHALL BE CONSIDERED ANOTHER UNIT.

PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE, IN PLACE WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR FURNISHING, ERECTING, MAINTAINING, COVERING DURING SUSPENSION OF WORK, AND REMOVAL OF THE SIGN AND SUPPORT.

ITEM 614, WORK ZONE INCREASED PENALTIES SIGN 42 EACH

SEE MOT PLAN SHEETS AND REFERENCED STANDARD CONSTRUCTION DRAWINGS FOR PLACEMENT LOCATIONS.

WORK ZONE SPEED ZONES (WZSZS)

THE FOLLOWING WORK ZONE SPEED ZONE (WZSZ) SPEED LIMIT REVISION(S) HAVE BEEN APPROVED FOR USE ON THIS PROJECT WHEN WORK ZONE CONDITIONS AND FACTORS ARE MET AS DESCRIBED BELOW:

WZSZ REVISION NUMBER(S) COUNTY-ROUTE-SECTION(S) DIRECTION(S)
WZ-65288-00 CUY-77-11.21 NB/SB

POTENTIAL WZSZ LOCATIONS SHALL HAVE AN ORGINAL (PRE-CONSTRUCTION) POSTED SPEED LIMIT OF 55 MPH OR GREATER, A QUALIFYING WORK ZONE CONDITION OF AT LEAST 0.5 MILE IN LENGTH, AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS, AND A WORK ZONE CONDITION IN PLACE THAT REDUCES THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS (I.E., LANE CLOSURE, LANE SHIFT, CROSSOVER, CONTRAFLOW AND/OR SHOULDER CLOSURE). THE LENGTH OF THE WORK ZONE CONDITION IS MEASURED FROM THE BEGINNING OF THE TAPER FOR THE SUBJECT WORK ZONE CONDITION IMPACTING THE TRAVEL LANES AND/OR SHOULDER TO THE END OF THE DOWNSTREAM TAPER, WHERE DRIVERS ARE RETURNED TO TYPICAL ALIGNMENT. AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS IS REQUIRED TO BALANCE THE ADDITIONAL EXPOSURE CREATED BY INSTALLING AND REMOVING WZSZ SIGNING WITH THE TIME NEEDED TO COMPLETE THE WORK.

IF THE WORK ZONE MEETS THESE MINIMUM CRITERIA, IT SHALL BE ANALYZED FURTHER USING TABLE 1 BELOW TO DETERMINE IF AND WHEN IT QUALIFIES FOR A SPEED LIMIT REDUCTION. DEPENDING ON THE ORGINAL POSTED SPEED LIMIT, THE TYPE OF TEMPORARY TRAFFIC CONTROL USED, AND WHETHER OR NOT WORKERS ARE PRESENT, A WARRANTED WZSZ WILL VARY IN THE APPROVED SPEED LIMIT TO BE POSTED OVER TIME.

C&MS ITEM 614, PARAGRAPH 614.02(B), INDICATES THAT TWO DIRECTIONS OF A DIVIDED HIGHWAY ARE CONSIDERED SEPARATE HIGHWAY SECTIONS. THEREFORE, IF THE WORK ON A MULTI-LANE DIVIDED HIGHWAY IS LIMITED TO ONLY ONE DIRECTION, A SPEED LIMIT REDUCTION IN THE DIRECTION OF THE WORK DOES NOT AUTOMATICALLY CONSTITUTE A SPEED LIMIT REDUCTION IN THE OPPOSITE DIRECTION. EACH DIRECTION SHALL BE ANALYZED INDEPENDENTLY FROM EACH OTHER.

ALL WZSZS FLUCTUATE BETWEEN TWO APPROVED REDUCED SPEED LIMITS OR BETWEEN AN APPROVED REDUCED SPEED LIMIT AND THE ORGINAL POSTED SPEED LIMIT. ONLY ONE OF TWO SIGNING STRATEGIES SHALL BE USED TO IMPLEMENT A WZSZ.

WZSZS USING DSL SIGN ASSEMBLIES SHALL BE IN ACCORDANCE WITH THIS NOTE, APPROVED LIST, SUPPLEMENTAL SPECIFICATIONS (SS) 808 AND 908, AND TRAFFIC SCD MT-104.10.

ONLY ONE WARRANTED SPEED LIMIT APPLIES AT ANY ONE TIME; SPEED LIMIT REDUCTIONS ARE NOT CUMULATIVE. WZSZS SHALL NOT BE USED FOR MOVING/MOBILE ACTIVITIES, AS DEFINED IN OMUTCD PART 6.

WHEN LOOKING UP THE WARRANTED WORK ZONE SPEED LIMITS, ALWAYS USE THE ORGINAL, PRECONSTRUCTION, POSTED SPEED LIMIT. DO NOT USE A PRIOR OR CURRENT WORK ZONE SPEED LIMIT AS A LOOK UP VALUE IN THE TABLE. POSITIVE PROTECTION IS GENERALLY REGARDED AS PORTABLE BARRIER OR OTHER RIGID BARRIER IN USE ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WITHOUT POSITIVE PROTECTION IS GENERALLY REGARDED AS USING DRUMS, CONES, SHADOW VEHICLE, ETC., ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WORKERS ARE CONSIDERED AS BEING PRESENT WHEN ON-SITE, WORKING WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WHEN THE WORK ZONE CONDITION REDUCING THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS IS REMOVED, THE SPEED LIMIT DISPLAYED SHALL RETURN TO THE ORGINAL POSTED SPEED LIMIT.

TABLE 1: WARRANTED WORK ZONE SPEED LIMITS (MPH)
FOR WORK ZONES ON HIGH-SPEED (55 MPH OR GREATER) MULTI-LANE HIGHWAYS

ORIGINAL POSTED SPEED LIMIT	WITH POSITIVE PROTECTION		WITHOUT POSITIVE PROTECTION	
	WORKERS PRESENT	WORKERS NOT PRESENT	WORKERS PRESENT	WORKERS NOT PRESENT
70	60	65	55	65
65	55	60	50	60
60	55	60	50	60
55	50	55	45	55

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 808, DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY 480 SIGN MONTH
ASSUMING 10 DSL ASSEMBLIES FOR 48 MONTHS

EARTHWORK FOR MAINTAINING TRAFFIC

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PLAN FOR INFORMATION ONLY.

EXCAVATION FOR MAINTAINING TRAFFIC 30154 CU. YD.

EMBANKMENT FOR MAINTAINING TRAFFIC 2406 CU. YD.

WHEN UNDERCUTS ARE NECESSARY FOR MAINLINE PAVEMENT OR EMBANKMENT CONSTRUCTION, EVALUATE THE NEED FOR TEMPORARY ROAD UNDERCUTS IF WITHIN A CLOSE PROXIMITY TO THE MAINLINE UNDERCUTS. A GEOTECHNICAL EVALUATION SHOULD BE CONSIDERED TO DETERMINE IF THE EXISTING SOIL CONDITIONS ARE ADEQUATE TO SUPPORT THE TEMPORARY ROAD. ADDITIONAL SOIL BORINGS ALONG THE TEMPORARY ROAD ARE NOT NORMALLY REQUIRED.

FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 614, WORK ZONE IMPACT ATTENUATOR, MISC.: 48" WIDE HAZARD (UNIDIRECTIONAL)

THIS ITEM CONSISTS OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR FOR PLACEMENT WHEN TWO RUNS OF PORTABLE BARRIER COME TOGETHER AS DESCRIBED IN MT-98.21. IMPACT ATTENUATOR SHALL BE AT A MINIMUM 48" WIDE, RATED FOR THE DESIGN SPEED OF THE ROADWAY, AND MUST BE CRASHWORTHY IN ACCORDANCE WITH MASH-16. INSTALLATION SHALL BE PER THE MANUFACTURE'S INSTRUCTIONS. THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

PAYMENT FOR THE ABOVE SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS , EQUIPMENT AND MATERIALS TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE, AND GRADING AS REQUIRED BY THE MANUFACTURER.

Preliminary Plans - For Reference Only

DESIGN AGENCY
HNTB
DESIGNER MTD
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.31 TOTAL P.1269

MODEL: Unnamed Plan-1 - Sheet 4 (Sheet) PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:33:57 AM USER: kperkins
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MAINTENANCE OF TRAFFIC

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET, RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. THE PCMS SHALL BE DELINEATED IN ACCORDANCE WITH C&MS 614.03.

PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER, OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT. THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF C&MS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER
PLAN 480 SIGN MONTH ASSUMING 10 PCMS
SIGN(S) FOR 48 MONTH(S)

MAINTENANCE OF TRAFFIC SIGNAL/INTERSECTION CONTROL BEACON INSTALLATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC SIGNALS AND INTERSECTION CONTROL BEACON INSTALLATIONS WITHIN THE PROJECT UNDER THE FOLLOWING CONDITIONS:

1. EXISTING SIGNAL/INTERSECTION CONTROL BEACON INSTALLATIONS WHICH THE PLANS REQUIRE THE CONTRACTOR TO ADJUST, MODIFY, ADD ONTO OR REMOVE, OR WHICH THE CONTRACTOR ACTUALLY ADJUSTS, MODIFIES OR OTHERWISE DISTURBS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE INSTALLATION (AT AN INTERSECTION) FROM THE TIME HIS OPERATIONS FIRST DISTURB THE INSTALLATION UNTIL THE INSTALLATION HAS BEEN SUBSEQUENTLY REMOVED OR MODIFIED AND THE WORK IS ACCEPTED.

2. NEW OR REUSED SIGNAL/INTERSECTION CONTROL BEACON INSTALLATIONS OR DEVICES, INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THESE FROM THE TIME OF INSTALLATION UNTIL THE WORK IS ACCEPTED.

THE CONTRACTOR SHALL CORRECT AS QUICKLY AS POSSIBLE ALL OUTAGES OR MALFUNCTIONS. HE SHALL PROVIDE THE MAINTAINING AGENCY AND THE ENGINEER SUCH ADDRESSES AND PHONE NUMBERS WHERE HIS MAINTENANCE FORCES CAN BE CONTACTED. THE CONTRACTOR SHALL PROVIDE ONE OR MORE PERSONS TO RECEIVE ALL CALLS AND DISPATCH THE NECESSARY MAINTENANCE FORCES TO CORRECT OUTAGES. SUCH A PERSON OR PERSONS MAY BE USED TO PERFORM OTHER DUTIES AS LONG AS PROMPT ATTENTION IS GIVEN TO THESE CALLS AND A PERSON IS READILY AVAILABLE CONTINUOUSLY 24 HOURS A DAY, 7 DAYS A WEEK. ALL LAMP OUTAGES, CABLE OUTAGES, ELECTRICAL FAILURES, EQUIPMENT MALFUNCTIONS AND MISALIGNED SIGNAL HEADS SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK TO SERVICE WITHIN TWO HOURS AFTER THE CONTRACTOR HAS BEEN NOTIFIED OF THE OUTAGE.

IN THE EVENT NEW SIGNALS ARE DAMAGED PRIOR TO ACCEPTANCE, ALL DAMAGED EQUIPMENT EXCEPT POLES AND CONTROL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK IN SERVICE WITHIN 8 HOURS AFTER THE CONTRACTOR'S NOTIFICATION OF THE OUTAGE. THE CONTRACTOR SHALL ARRANGE FOR FULL TRAFFIC CONTROL UNTIL THE SIGNAL IS BACK IN OPERATION. IF POLES AND/OR CONTROL EQUIPMENT ARE DAMAGED AND MUST BE REPLACED, THE CONTRACTOR SHALL MAKE TEMPORARY REPAIRS AS NECESSARY TO BRING THE SIGNAL BACK INTO FULL OPERATION WITHIN THE ALLOWED 8-HOUR PERIOD, AND SHALL MAKE PERMANENT REPAIRS OR REPLACEMENT AS SOON THEREAFTER AS POSSIBLE.

NONE OF THE ABOVE SHALL BE CONSTRUED AS COLLECTIVE OR CONSECUTIVE OUTAGE TIME PERIODS AT ANY ONE LOCATION. THAT IS, WHERE MORE THAN ONE OUTAGE OCCURS AT ANY ONE LOCATION THEN THE ALLOTTED TIME LIMIT SHALL BE FOR THE WORST SINGLE OUTAGE.

WHERE OUTAGES ARE THE DIRECT RESULT OF A VEHICLE ACCIDENT THE RESPONSE OF THE CONTRACTOR SHALL BE AS OUTLINED ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTION OF ANY COMPENSATION FOR THIS WORK FROM THOSE PARTIES RESPONSIBLE FOR THE DAMAGE.

WHERE THE CONTRACTOR HAS FAILED TO, OR CANNOT RESPOND TO, AN OUTAGE OR SIGNAL EQUIPMENT MALFUNCTION, AT THESE LOCATIONS WITHIN HIS RESPONSIBILITY, WITHIN PERIODS AS SPECIFIED ABOVE, THE ENGINEER MAY INVOKE THE PROVISIONS OF SECTION 105.15 AND ANY SUBSEQUENT BILLINGS TO THE STATE OR THE IMPACTED MUNICIPALITY FOR POLICE SERVICES AND MAINTENANCE SERVICES BY LOCAL FORCES SHALL BE DEDUCTED FROM MONIES DUE OR TO BECOME DUE THE CONTRACTOR IN ACCORDANCE WITH PROVISIONS OF SECTION 105.15.

THE CONTRACTOR SHALL PROVIDE THE MAINTENANCE SERVICE ENTIRELY WITH HIS FORCES OR HE MAY CHOOSE TO ENTER INTO A COOPERATIVE UNDERSTANDING WITH THE LOCAL MAINTAINING AGENCY TO PROVIDE THE MAINTENANCE. THE CONTRACTOR SHALL INFORM THE ENGINEER, IN WRITING, OF THE MAINTENANCE METHOD SELECTED.

MAINTENANCE OF TRAFFIC SIGNAL/INTERSECTION CONTROL BEACON INSTALLATION (CONT.)

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY TRAFFIC SIGNAL COMPONENTS REQUIRED TO BE HANDLED DURING THE RELOCATION OF POLES AND REVISIONS TO THE SIGNAL SYSTEM. WHEN A TRAFFIC SIGNAL MUST BE TAKEN OUT OF SERVICE BY THE CONTRACTOR, DUE TO CONSTRUCTION PROCEDURES, THIS OUTAGE SHALL NOT EXCEED 8 HOURS AND SHALL NOT INCLUDE THE HOURS OF 7 AM TO 6 PM. ANY SIGNALIZED INTERSECTION, WHERE THE SIGNAL IS OUT OF SERVICE DUE TO CONSTRUCTION PROCEDURES, OR DUE TO AN OUTAGE OR MALFUNCTION OF EQUIPMENT AS DESCRIBED ABOVE, SHALL BE PROTECTED BY OFF-DUTY LOCAL POLICE, HIRED BY THE CONTRACTOR. THESE SIGNALIZED INTERSECTIONS INCLUDE:

1. GRANT AVENUE INTERSECTIONS WITH I.R. 77 INTERCHANGE RAMPS.

2. HARVARD AVENUE INTERSECTIONS WITH I.R. 77 INTERCHANGE RAMPS.

3. FLEET AVENUE INTERSECTION WITH I.R. 77 INTERCHANGE RAMPS/EAST 49TH STREET/INDEPENDENCE ROAD.

4. RAMP C2 AND INDEPENDENCE ROAD.

5. FLEET AVENUE AND CRETE ROAD/WASHINGTON PARK BOULEVARD INTERSECTION.

6. RAMP E1 AND BROADWAY AVENUE.

7. EAST 30TH STREET/ORANGE AVENUE/WOODLAND AVENUE INTERSECTION.

8. EAST 49TH STREET AND HARVARD AVENUE INTERSECTION.

9. EAST 49TH STREET AND GRANT AVENUE INTERSECTION.

ANY VEHICULAR TRAFFIC SIGNAL HEAD, EITHER NEW OR EXISTING WHICH WILL BE OUT OF OPERATION SHALL BE COVERED IN THE MANNER DESCRIBED IN 632.25.

THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS OF MALFUNCTIONS INCLUDING:

1. TIME OF NOTIFICATION OF MALFUNCTION;

2. TIME OF WORK CREWS ARRIVAL TO CORRECT THE MALFUNCTION;

3. ACTIONS TAKEN TO CORRECT THE MALFUNCTION, INCLUDING A LIST OF PARTS REPAIRED OR REPLACED;

4. A DIAGNOSIS OF REASON FOR THE MALFUNCTION AND PROBABILITY OF REOCCURRENCE;

5. TIME OF COMPLETION OF THE REPAIR AND SYSTEM RESTORED TO FULL SERVICE.

A COPY OF THESE RECORDS SHALL BE PROVIDED TO THE ENGINEER WITHIN THREE (3) WORKING DAYS FOLLOWING COMPLETION OF EACH REPAIR.

ALL COSTS RESULTING FROM THE ABOVE REQUIREMENTS SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

TRAFFIC INCIDENT MANAGEMENT (TIM) DURING MOT

OHIO TIM IS OHIO'S TRAFFIC INCIDENT MANAGEMENT PROGRAM WHICH IS COMMITTED TO MAINTAINING THE SAFE AND EFFECTIVE FLOW OF TRAFFIC DURING EMERGENCIES AS TO PREVENT FURTHER DAMAGE, INJURY OR UNDUE DELAY OF THE MOTORING PUBLIC. IN ADDITION TO COMPLYING WITH THE PROVISION OF OMUTCD CHAPTER 6I, CONTROL OF TRAFFIC THROUGH TRAFFIC INCIDENT MANAGEMENT AREAS, THE CONTRACTOR SHALL ACTIVELY PARTICIPATE IN TIM PLANNING AND IMPLEMENTATION AS OUTLINED BELOW.

1. SUPERINTENDENT SHALL IDENTIFY THE INDIVIDUAL PERSONS ON THE PROJECT WHO WILL, OR MAY NEED TO, PERFORM THE DUTIES HEREIN. AT A MINIMUM, INCLUDE THE SUPERINTENDENT, FOREMEN AND SUPERVISORS (OR EQUIVALENT) AS WELL AS THE WORKSITE TRAFFIC SUPERVISOR (WTS; IF APPLICABLE TO THE PROJECT). THESE INDIVIDUALLY IDENTIFIED PERSONS SHALL COLLECTIVELY BE KNOWN AS CONTRACTOR TRAFFIC INCIDENT MANAGEMENT (TIM) CONTACTS. NOTIFY THE PROJECT ENGINEER OF THE CONTRACTOR TIM CONTACTS (ALONG WITH CONTACT INFORMATION FOR EACH) AT OR BEFORE THE PRECONSTRUCTION MEETING.

2. SUPERINTENDENT SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY CONTRACTOR TIM CONTACT IS ADDED, REMOVED OR THE CONTACT INFORMATION CHANGES OVER THE COURSE OF THE PROJECT.

TRAFFIC INCIDENT MANAGEMENT (TIM) DURING MOT (CONT.)

3. PRIOR TO THE FIRST DAY OF WORK IN THE FIELD, EACH CONTRACTOR TIM CONTACT ON THE PROJECT SHALL HAVE ATTENDED AND SUCCESSFULLY COMPLETED OHIO TIM TRAINING PROVIDED BY THE DEPARTMENT OR DESIGNEE. TRAINING INFORMATION CAN BE FOUND AT WWW.OHIOTIM.COM.

4. SUPERINTENDENT, AT A MINIMUM, SHALL ATTEND AND ACTIVELY PARTICIPATE IN A DEPARTMENT SCHEDULED TIM MEETING BEFORE CONSTRUCTION WORK BEGINS AND BEFORE EACH PHASE CHANGE. THESE MEETINGS WILL RESULT IN A DEPARTMENT ISSUED PROJECT SPECIFIC TRAFFIC INCIDENT MANAGEMENT PLAN (TIMP). AT THE TIM MEETINGS THE ATTENDING CONTRACTOR TIM CONTACTS SHALL:

   A. COLLABORATE WITH ODOT AND SAFETY FORCES;

   B. SHARE PROJECT SPECIFIC DETAILS THAT IMPACT TIM RESPONDERS; AND

   C. RECOMMEND WAYS TO INCORPORATE NECESSARY EMERGENCY ACCESS AND OTHER TIM ELEMENTS FOR TIM RESPONDERS GIVEN PROJECT SPECIFIC WORK BEING COMPLETED AND PROJECT SPECIFIC PHASING.

5. CONTRACTOR TIM CONTACTS SHALL IMPLEMENT COMPONENTS OF THE RESULTING TIMP (SUCH AS APPROVED EMERGENCY INGRESS/EGRESS POINTS, ETC.), AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH 109.05.

6. CONTRACTOR TIM CONTACTS SHALL PERFORM, AT A MINIMUM, THE FOLLOWING FUNCTIONS WHEN AN INCIDENT/CRASH OCCURS:

   A. IF OBSERVED OR PRESENT WHEN OCCURS, CALL 911 AND THEN NOTIFY THE TRAFFIC MANAGEMENT CENTER (TMC) TO PROVIDE THE FOLLOWING:

      I. LOCATION, INCLUDING MILEPOST NUMBER AND DIRECTION OF TRAVEL.

      II. NUMBER AND TYPE OF VEHICLES INVOLVED, IF KNOWN.

      III. ESTIMATED EXTENT OF DAMAGE OR INJURY, IF KNOWN.

      IV. ESTIMATED NUMBER OF PATIENTS INVOLVED, IF KNOWN.

      V. ANY POTENTIAL HAZARDOUS CONDITIONS, IF KNOWN.

      VI. THE PLACARD NUMBER ON ANY HAZARDOUS MATERIALS PLACARD FROM A SAFE DISTANCE, IF APPLICABLE AND VISIBLE.

   B. FOLLOWING AN INCIDENT/CRASH:

      I. INITIATE TRAFFIC MANAGEMENT/PROVIDE TEMPORARY TRAFFIC CONTROL AS INDICATED IN THE TIMP, AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH 109.05.

      II. RECOMMEND ROADWAY REPAIR NEEDS.

      III. PROVIDE REPAIR RESOURCES AND INITIATE REPAIRS, AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH 109.05.

      IV. ATTEND AND PARTICIPATE IN AN AFTER ACTION REVIEW (AAR).

ALL COSTS, UNLESS OTHERWISE SPECIFIED, RESULTING FROM THE ABOVE REQUIREMENTS SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM PRICE FOR ITEM 614, MAINTAINING TRAFFIC. FAILURE TO PERFORM THE REQUIREMENTS OF THIS PLAN NOTE WILL RESULT IN A DAILY FINE OF 2% OF ITEM 614, MAINTAINING TRAFFIC AND MAY RESULT IN ONE OR MORE CONTRACTOR TIM CONTACTS BEING REMOVED FROM THE LIST OF OHIO TIM TRAINED INDIVIDUALS (AT THE SOLE DISCRETION OF THE OHIO TIM EXECUTIVE COMMITTEE). IN THE EVENT AN INDIVIDUAL IS REMOVED FROM THE OHIO TIM TRAINED LIST, THE INDIVIDUAL WILL BE REMOVED FROM CONTRACTOR TIM CONTACT RESPONSIBILITIES ON ALL PROJECTS.

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1
MODEL: Unnamed Plan-2 - Sheet 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:33:59 AM USER: kperkins
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DESIGN AGENCY
HNTB
DESIGNER MTD
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.32 TOTAL P.1269

MAINTENANCE OF TRAFFIC

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW SHALL NOT BE PERMITTED AT PROJECT COST NOR TIME COMPENSATION. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

- DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.
- DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).
- DURING PERIODS WHERE TRAFFIC NEEDS TO BE DIRECTED CONTRARY TO A TRAFFIC CONTROL DEVICE (FLAGGER, SIGN [E.G. STOP SIGN, STREET OR HIGHWAY SIGNS, ETC.], SIGNAL OR OTHER DEVICE USED TO REGULATE, WARN OR GUIDE TRAFFIC). TRAFFIC IN THIS INSTANCE INCLUDE VEHICULAR, PEDESTRIAN AND/OR SHARED USE PATH USERS.

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

- FOR LANE CLOSURES THAT MEET ALL OF THE CRITERIA LISTED BELOW: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

  CRITERIA
  - ON A MULTI-LANE DIVIDED INTERSTATE, OTHER FREEWAY OR EXPRESSWAY; AND,
  - AN AUTHORIZED SPEED LIMIT OF 45 MPH OR GREATER THAT IS IN EFFECT AT THE TIME OF THE OPERATION; AND,
  - AADT OF 50,000 (OR AADT OF 30,000 WITH 25% OR HIGHER PERCENT TRUCKS).

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION (OR AT THE POINT OF ROAD CLOSURE), AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS AND/OR IN CONTRARY TO OTHER TRAFFIC CONTROL DEVICES IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS.THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE THAT SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS (CONT.)

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 1490 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED. ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

WORKSITE TRAFFIC SUPERVISOR

SUBJECT TO APPROVAL OF THE ENGINEER, THE CONTRACTOR SHALL EMPLOY AND IDENTIFY (SOMEONE OTHER THAN THE SUPERINTENDENT) A PREQUALIFIED WORKSITE TRAFFIC SUPERVISOR (WTS) BEFORE STARTING WORK IN THE FIELD. THE WTS SHALL BE TRAINED IN ACCORDANCE WITH CMS 614.03, SHALL HAVE SUCCESSFULLY COMPLETED ODOT ADMINISTERED WTS TESTING (AND RE-TESTING WHEN APPLICABLE) AND BE LISTED ON THE ODOT PREQUALIFIED WTS ROSTER. PREQUALIFICATION EXPIRES EVERY 5 YEARS. RE-TESTING SHALL BE SUCCESSFULLY REPEATED EVERY 5 YEARS TO REMAIN PREQUALIFIED.

THE NAME OF THE PREQUALIFIED WTS AND RELATED 24-HOUR CONTACT INFORMATION SHALL BE PROVIDED TO THE ENGINEER AT THE PRECONSTRUCTION CONFERENCE. IF THE DESIGNATED WTS WILL NOT BE AVAILABLE FULL TIME (24/7), THE CONTRACTOR MAY DESIGNATE AN ALTERNATE (SECONDARY) WTS TO BE AVAILABLE WHEN THE PRIMARY IS OFF DUTY; HOWEVER, THE PRIMARY WTS SHALL REMAIN THE POINT OF CONTACT AT ALL TIMES. ANY ALTERNATE (SECONDARY) WTS IS SUBJECT TO THE SAME TRAINING, PREQUALIFICATION AND OTHER REQUIREMENTS OUTLINED WITHIN THIS PLAN NOTE. AT ALL TIMES THE ENGINEER, OR ENGINEER'S REPRESENTATIVES, MUST BE INFORMED OF WHO THE PRIMARY WTS (AND SECONDARY WTS, IF APPLICABLE) IS AT THE CURRENT TIME.

THE WTS POSITION HAS THE PRIMARY RESPONSIBILITY OF IMPLEMENTING THE TRAFFIC MANAGEMENT PLAN (TMP), MONITORING THE SAFETY AND MOBILITY OF THE ENTIRE WORK ZONE, AND CORRECTING TEMPORARY TRAFFIC CONTROL (TTC) DEFICIENCIES FOR THE ENTIRE WORK ZONE. THE WTS, AND ALTERNATE WTS WHEN ON DUTY, SHALL HAVE SUFFICIENT AUTHORITY TO EFFECTIVELY CARRY OUT THE IDENTIFIED WTS RESPONSIBILITIES AND DUTIES. THE DUTIES OF THE WTS ARE AS FOLLOWS:

1. BE AVAILABLE ON A 24-HOUR PER DAY BASIS.
2. BE ON SITE FOR ALL EMERGENCY TTC NEEDS WITHIN ONE HOUR OF NOTIFICATION BY POLICE OR PROJECT STAFF, AND EFFECT CORRECTIVE MEASURES IMMEDIATELY ON EXISTING WORK ZONE TTC DEVICES.
3. ATTEND PRECONSTRUCTION MEETING AND ALL PROJECT MEETINGS WHERE TTC MANAGEMENT IS DISCUSSED.
4. BE AVAILABLE ON SITE FOR OTHER MEETINGS OR DISCUSSIONS WITH THE ENGINEER UPON REQUEST.
5. BE AWARE OF ALL EXISTING AND PROPOSED TTC OPERATIONS OF THE CONTRACTOR, SUBCONTRACTORS AND SUPPLIERS, AND ENSURE COORDINATION OCCURS BETWEEN THEM TO ELIMINATE CONFLICTING TEMPORARY AND/OR PERMANENT TRAFFIC CONTROL.
6. COORDINATE PROJECT ACTIVITIES WITH ALL LAW ENFORCEMENT OFFICERS (LEOS). THE WTS SHALL ALSO BE THE MAIN CONTACT PERSON WITH THE LEOS WHILE LEOS ARE ON THE PROJECT.
7. COORDINATE AND FACILITATE MEETINGS WITH ODOT PERSONNEL, LEOS AND OTHER APPLICABLE ENTITIES BEFORE EACH PLAN PHASE SWITCH TO DISCUSS THE WORK ZONE TTC FOR IMPLEMENTING THE PHASE SWITCH. SUBMIT A WRITTEN DETAIL OF MOT OPERATIONS AND SCHEDULE OF EVENTS TO IMPLEMENT THE SWITCH BETWEEN PHASE PLANS TO THE ENGINEER 5 CALENDAR DAYS PRIOR TO THIS MEETING.
8. BE PRESENT, ON SITE FOR, AND INVOLVED WITH, EACH TTC SET UP/TAKE DOWN AND EACH PHASE CHANGE IN ACCORDANCE WITH CMS 614.03.
9. ON A CONTINUAL BASIS ENSURE THAT THE TTC ZONE AND ALL RELATED DEVICES ARE INSTALLED, MAINTAINED AND REMOVED IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.

WORKSITE TRAFFIC SUPERVISOR (CONT.)

10. ON A CONTINUAL BASIS FACILITATE CORRECTIVE ACTION(S) NECESSARY TO BRING DEFICIENT TTC ZONES AND ALL RELATED DEVICES INTO COMPLIANCE WITH CONTRACT DOCUMENTS IN THE TIMEFRAME DETERMINED BY THE ENGINEER.
11. INSPECT, EVALUATE, PROPOSE NECESSARY MODIFICATIONS TO, AND DOCUMENT THE EFFECTIVENESS OF, THE TTC DEVICES AND TRAFFIC OPERATIONS ON A DAILY BASIS (7 DAYS A WEEK). IN ADDITION, PERFORM ONE WEEKLY NIGHT INSPECTION OF THE WORK ZONE SETUP FOR DAYTIME WORK OPERATIONS; AND ONE DAYTIME INSPECTION PER WEEK FOR NIGHTTIME PROJECTS. THIS SHALL INCLUDE (BUT NOT BE LIMITED TO) DOCUMENTATION ON THE FOLLOWING PROJECT EVENTS:

    A. INITIAL TTC SETUP (DAY AND NIGHT REVIEW).
    B. DAILY TTC SETUP AND REMOVAL.
    C. WHEN CONSTRUCTION STAGING CAUSES A CHANGE IN THE TTC SETUP.
    D. CRASH OCCURRENCES WITHIN THE CONSTRUCTION AREA AND WITHIN THE INFLUENCE AREA(S) APPROACHING THE WORK ZONE.
    E. REMOVAL OF TTC DEVICES AT THE END OF A PHASE OR PROJECT.
    F. ALL OTHER EMERGENCY TTC NEEDS.

12. COMPLETE THE DEPARTMENT APPROVED (CA-D-8) WITHIN GOFORMZ AFTER EACH INSPECTION AS REQUIRED IN # 11 AND SUBMIT IT TO THE ENGINEER BY THE END OF THE WORKDAY IN WHICH THE INSPECTION OCCURRED. THE CA-D-8 INCLUDES A CHECKLIST OF ALL TTC MAINTENANCE ITEMS TO BE REVIEWED. CONTACT GOFORMZ.HELP@DOT.OHIO.GOV TO OBTAIN A USER ACCOUNT. ANY DEFICIENCIES OBSERVED SHALL BE NOTED ON THE CA-D-8, ALONG WITH RECOMMENDED OR COMPLETED CORRECTIVE ACTIONS AND THE DATES BY WHICH SUCH CORRECTIONS WERE, OR WILL BE, COMPLETED. A COPY OF THE CURRENT CA-D-8 DOCUMENT CAN BE FOUND ON THE OFFICE OF CONSTRUCTION ADMINISTRATION'S INSPECTION FORMS WEBSITE.
13. HAVE COPIES OF THE ODOT TEMPORARY TRAFFIC CONTROL MANUAL AND CONTRACT DOCUMENTS AVAILABLE AT ALL TIMES ON THE PROJECT.

THE DEPARTMENT WILL DEDUCT:

A. THE PRORATED DAILY AMOUNT OF ITEM 614 MAINTAINING TRAFFIC FOR ANY DAY IN WHICH THE WTS FAILS TO PERFORM THE DUTIES SET FORTH ABOVE. THE PRORATED DAILY AMOUNT WILL BE EQUAL TO THE ORGINAL BID AMOUNT FOR ITEM 614 MAINTAINING TRAFFIC DIVIDED BY THE DIFFERENCE BETWEEN THE ORGINAL COMPLETION DATE AND THE FIRST DAY OF WORK, IN CALENDAR DAYS.

B. 1% OF THE ORGINAL BID AMOUNT FOR ITEM 614 MAINTAINING TRAFFIC FOR ANY DAY THAT A FAILURE TO PERFORM WTS DUTIES REOCCURS OR A TTC ISSUE IS IDENTIFIED IN THE FIELD AND IS NOT CORRECTED IN THE GIVEN TIMEFRAME PER THE ENGINEER. DEDUCTION B SHALL NOT APPLY TO SITUATIONS COVERED BY DEDUCTION C.

C. 1% OF THE ORGINAL BID AMOUNT FOR ITEM 614 MAINTAINING TRAFFIC FOR ANY DAY THAT A LANE OR RAMP IS BLOCKED (FULLY OR PARTIALLY) WITHOUT TTC, AS DETERMINED BY THE ENGINEER. THIS DEDUCTION SHALL BE IN ADDITION TO ANY OTHER DISINCENTIVES ESTABLISHED FOR UNAUTHORIZED LANE USE.

FOR DAYS IN WHICH MORE THAN ONE DEDUCTION LISTED ABOVE OCCUR, THE HIGHEST DEDUCTION AMOUNT WILL APPLY.

IF THREE OR MORE TOTAL DAYS RESULT IN ISSUES DESCRIBED IN DEDUCTION B OR C ABOVE, THE PRIMARY WTS (AND ANY ALTERNATE WTS, IF APPLICABLE) SHALL BE IMMEDIATELY REMOVED FROM THE WORK IN ACCORDANCE WITH C&MS 108.05. UPON REMOVAL THE ENGINEER SHALL NOTIFY ODOT CENTRAL OFFICE (WTSPREQUALIFICATION@DOT.OHIO.GOV) TO REGISTER A REMOVAL AT THE PROJECT LEVEL AGAINST THE STATEWIDE PREQUALIFICATION FOR THE PRIMARY WTS (AND ALTERNATE WTS, IF APPLICABLE). ACCUMULATION OF THREE PROJECT LEVEL REMOVALS (FROM ANY PROJECTS STATEWIDE) SHALL CAUSE STATEWIDE DISQUALIFICATION FOR ANY FORMERLY PREQUALIFIED WTS. A WTS (AND ALTERNATE WTS, IF APPLICABLE) MAY BE IMMEDIATELY AND CONCURRENTLY REMOVED FROM THE WORK AT THE PROJECT LEVEL IN ACCORDANCE WITH C&MS 108.05 AND DISQUALIFIED STATEWIDE FROM THE ODOT PREQUALIFIED WTS ROSTER (REGARDLESS OF THE NUMBER OF PROJECT LEVEL REMOVALS), AS WELL AS BEING SUBJECT TO OTHER POTENTIAL CONSEQUENCES, IN CASES OF FALSIFIED, DISHONEST OR OTHERWISE UNETHICAL ACTIVITY OR DOCUMENTATION.

PAYMENT FOR THE ABOVE REQUIREMENTS, RESPONSIBILITIES AND DUTIES SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

CONTRACTOR ACCESS

THOUGH SPECIFIC LOCATIONS OF CONTRACTOR ACCESS TO COMPLETE HIGHWAY WORK HAVE NOT BEEN DESIGNATED ON THE MOT PLANS THE CONTRACTOR SHALL MAINTAIN ALL INGRESS/EGRESS POINTS TO WORK AREAS.

PRIOR TO STARTING EACH PHASE OF CONSTRUCTION THE CONTRACTOR SHALL PROVIDE A FORMAL ACCESS PLAN TO THE ENGINEER FOR APPROVAL. THE PLAN SHALL INDICATE LOCATIONS OF INGRESS AND EGRESS, REQUIRED TRAFFIC CONTROL AND DURATION OF TIME THAT SAID ACCESS POINTS WILL BE IN PLACE AND OPERATIONAL. SAID ACCESS POINTS MUST BE AS SHOWN IN MT-103.10. NO WORK ON A PHASE SHALL COMMENCE UNTIL APPROVAL OF THE ACCESS PLAN IS RECEIVED FROM THE ENGINEER. ANY SIGNIFICANT CHANGES TO THE THE MOT AS DETERMINED BY THE ENGINEER RESULTING FROM THE ACCESS PLANS SHALL BE STAMPED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF OHIO. SEE NOTE "WORK ZONE EGRESS WARNING SYSTEM" FOR MORE INFORMATION ON REQUIRED TRAFFIC CONTROL AT ACCESS POINTS.

PAYMENT FOR FURNISHING ACCESS PLANS AND RESULTANT MODIFICATIONS TO THE PLAN MOT SHALL BE INCLUDED WITH THE LUMP SUM PAYMENT FOR ITEM 614 - MAINTENANCE OF TRAFFIC.

WORK ZONE EGRESS WARNING SYSTEM

THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN AN APPROVED WORK ZONE EGRESS WARNING SYSTEM (WZEWS) AS PER SUPPLEMENTAL SPECIFICATION 829.

THE PROBABLE INITIAL LOCATIONS OF THE WZEWS DEVICES SHALL BE SHOWN ON ACCESS PLANS DEVELOPED BY THE CONTRACTOR (SEE CONTRACTOR ACCESS NOTE) AND APPROVED BY THE ENGINEER. IT IS EXPECTED THAT THESE LOCATIONS WILL VARY BASED ON PLANNED OR UNPLANNED PHASE AND TRAFFIC PATTERN CHANGES. PLACEMENT, OPERATION, AND MAINTENANCE AND ALL ACTIVATION OF THE DEVICES BY THE CONTRACTOR SHALL BE DIRECTED BY THE ENGINEER.

WZEWS SHALL BE USED IN ACCORDANCE WITH MT-103.10.THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 829, WORK ZONE EGRESS WARNING SYSTEM 144 SIGN MONTH
ASSUMING 3 WORK ZONE EGRESS WARNING SYSTEMS FOR 48 MONTHS

WORK ZONE QUEUE DETECTION WARNING SYSTEM

THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN AN APPROVED WORK ZONE QUEUE DETECTION WARNING SYSTEM (WZQDWS) AS PER SUPPLEMENTAL SPECIFICATION 896.

THE PROBABLE INITIAL LOCATIONS OF THE WZQDWS DEVICES FOR SHALL BE AT THE APPROVAL OF THE ENGINEER. FOR I.R. 77 NORTHBOUND A WZQDWS SHALL BE SET AT THE LANE CLOSURE POINT, 0.5 MILES IN ADVANCE OF THE CLOSURE AND 1 MILE IN ADVANCE OF THE CLOSURE. FOR SOUTHBOUND I.R. 77 WZQDWS QUANTITY HAS BEEN INCLUDED FOR 3 SYSTEMS FOR 3 YEARS OF CONSTRUCTION. THE USAGE AND PLACEMENT OF THESE SHALL BE AS DIRECTED BY THE ENGINEER. IT IS EXPECTED THAT THESE LOCATIONS WILL VARY BASED ON PLANNED OR UNPLANNED PHASE AND TRAFFIC PATTERN CHANGES. PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE DEVICES BY THE CONTRACTOR SHALL BE DIRECTED BY THE ENGINEER.

THE FOLLOWING TRAFFIC SENSOR THRESHOLDS AND PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) MESSAGES SHALL BE USED:

GREATER THAN OR EQUAL TO 50 MPH – USE FOUR CORNER FLASHING CAUTION MODE
BETWEEN 50 MPH AND 25 MPH – TRAFFIC AHEAD XX MPH / SLOW DOWN
BELOW OR EQUAL TO 25 MPH – TRAFFIC AHEAD XX MPH / PREPARE TO STOP

FOUR CORNER FLASHING CAUTION MODE SHALL CONSIST OF THE USE OF ONE ASTERISK IN EACH CORNER OF THE PCMS DISPLAY (4 TOTAL ASTERISKS).

XX SHALL BE ROUNDED UP TO THE NEAREST MULTIPLE OF 5 MPH MINUS 1. OCCUPANCY MAY BE DIRECTED TO BE USED BASED ON CERTAIN TRAFFIC CONDITIONS AND SCENARIOS. ODOT WILL DIRECT THE CONTRACTOR OF THE THRESHOLDS TO BE USED FOR THOSE AREAS WHERE OCCUPANCY IS DIRECTED TO BE USED.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 896, PORTABLE NON-INTRUSIVE TRAFFIC SENSOR, CLASS I 216 SIGN MONTH
ASSUMING 6 SENSOR(S) FOR 36 MONTH(S)

ITEM 896, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 216 SIGN MONTH
ASSUMING 6 PCMS SIGN(S) FOR 36 MONTH(S)

For Reference Only
Preliminary Plans - Not For Construction

MODEL: Unnamed Plan-3 - Sheet 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:00 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743400-Engineering\MOT\Sheets\105743_MN001.dgn

DESIGN AGENCY: HNTB
DESIGNER: MTD
REVIEWER: MTR 05/01/26
PROJECT ID: 105743
SHEET: P.33 TOTAL: P.1269

MODEL: Unnamed Plan - Sheet 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:02 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MN001.dgn

MAINTENANCE OF POSITIVE DRAINAGE AND TEMPORARY DRAINAGE

THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES. THE BELOW HIGHLIGHTS ASSUMED PHASING TO IMPLEMENT THE PROPOSED DRAINAGE SYSTEM AND MAINTAIN THE EXISTING DRAINAGE SYSTEM. BASED ON THE CONTRACTOR'S MEANS AND METHODS THE BELOW PHASING MAY BE MODIFIED AT THE DISCRETION OF THE CONTRACTOR WITH APPROVAL OF THE ENGINEER.

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND SUBSEQUENTLY REMOVE OR ABANDON (WITH APPROVAL OF THE ENGINEER) ALL TEMPORARY DRAINAGE INFRASTRUCTURE NEEDED TO MAINTAIN POSITIVE DRAINAGE. THOUGH SPECIFIC ITEMS ARE LISTED BELOW ADDITIONAL ITEMS AND INCIDENTALS MAY BE NECESSARY. PAYMENT FOR FURNISHING, INSTALLING, AND REMOVAL OF ADDITIONAL ITEMS AND INCIDENTALS AND REMOVAL OF ITEMIZED TEMPORARY DRAINAGE ITEMS SHALL BE INCLUDED WITH THE LUMP SUM PAYMENT FOR ITEM 615 - ROADS FOR MAINTAINING TRAFFIC. TEMPORARY DRAINAGE ITEMS WILL NOT BE SUBJECT TO 611.12 PERFORMANCE INSPECTIONS.

PRE-PHASE 1
NORTHBOUND AND SOUTHBOUND I.R. 77
IN AREAS OF TEMPORARY PAVEMENT AND/OR CURB REMOVAL ADD TEMPORARY CATCH BASINS AND CONDUITS IN TEMPORARY SWALES. ABANDON EXISTING PAVEMENT INLETS/CATCH BASINS IN TEMPORARY PAVEMENT AREAS/CURB REMOVAL AREAS THAT ARE NO LONGER COLLECTING DRAINAGE. SEE MOT PLANS AND THE TABLE ON THIS SHEET FOR MORE DETAILS. CLEAN AND/OR ADJUST/RECONSTRUCT EXISTING MEDIAN INLETS TO GRADE AS DIRECTED BY THE ENGINEER. BEGIN CONSTRUCTION OF THE PROPOSED TRUNK DRAINAGE SYSTEM ALONG THE OUTSIDE OF SOUTHBOUND I.R. 77.

THE FOLLOWING DRAINAGE STRUCTURES AND CORRESPONDING CONDUIT SEGMENTS BETWEEN STRUCTURES ARE ASSUMED COMPLETE IN THE PRE-PHASE. SEE THE MOT PLANS FOR MORE DETAILS:

D3A, D3B, D3D, D3, D7, D12, D22, D27, D28, D31, D32, D37, D39, D41, D50, D43, D43A, D55, D59, D59X, D61, D64A, D64, D71, D71A, D71B, D71C, D71D, D72, D83, D84, D86, D88, D96, D162, D168, D169, D170A, D170B, DZ-2, D220, D177, D177A, D177C, D180, D181, D182, D185, D186, D192, D193X, D193, D195, D201, D212, D214, D215, D206, D207, D208.

THE FOLLOWING TEMPORARY DRAINAGE CONNECTIONS WILL NEED MADE TO KEEP POSITIVE DRAINAGE IN EXISTING DRAINAGE SYSTEMS. ALSO THE FOLLOWING EXISTING DRAIN RUNS NEED TO REMAIN ACTIVE:

TEMPORARY CONNECTION OF SWALE TO DA12A
TEMPORARY CONNECTION OF SWALE TO D22
TEMPORARY CONNECTION OF SWALE TO D28
TEMPORARY CONNECTION OF SWALE TO D37
TEMPORARY CONNECTION OF SWALE TO D41
TEMPORARY CONNECTION OF SWALE TO DXX (JUST NORTH OF HARVARD)
TEMPORARY CONNECTION OF SWALE TO DA100
TEMPORARY CONNECTION OF SWALE TO DA149
TEMPORARY CONNECTION OF SWALE TO D201
TEMPORARY CONNECTION D206 TO DA283

PHASE 1
COMPLETE THE REMAINING PORTIONS OF THE NEW TRUNK STORM SEWER SYSTEM AND DRAINAGE STRUCTURES ALONG THE SOUTHBOUND OUTSIDE SHOULDER. COMPLETE STORM SEWER LATERALS ACROSS THE PHASE JOINT LINE.

THE FOLLOWING DRAINAGE STRUCTURES AND CORRESPONDING CONDUIT SEGMENTS BETWEEN STRUCTURES AND LATERALS ARE ASSUMED COMPLETE IN THE PHASE 1:

D1, D2, D2A, D6, D7, D10, D10A, D11, D15, D15C, D17, D17A, D18, D18A, D19, D21, D21A, D24, D26, D31C, D36, D37A, D40, D42, D49, D50, D51, D54, D60, D01B, D68, D69, D70, D85, D86A, D95A, D97, D98, D101, D102, D103, D104, D163A, D163, D162, D168A, D164, D165, D166, D166A, D167, D212, D212D, D214, D215C, D405, D399,

THE FOLLOWING CONDUIT RUNS REQUIRING BORING OR JACKING TO CROSS I.R. 77 MAY NEED COMPLETED OR PARTIALLY COMPLETED DURING THIS PHASE:

D95 TO D95A

MAINTENANCE OF POSITIVE DRAINAGE AND TEMPORARY DRAINAGE (CONT.)

PHASE 2

COMPLETE PROPOSED STORM SEWER LATERAL CROSSINGS OF SB I.R. 77 AND COMPLETE MEDIAN DRAINAGE STRUCTURES.

THE FOLLOWING DRAINAGE STRUCTURES AND CORRESPONDING CONDUIT SEGMENTS BETWEEN STRUCTURES AND LATERALS ARE ASSUMED COMPLETE IN THE PHASE 2:

D5, D9, D14, D16, D23, D32A, D38, D38A, D48, D58, D63, D65, D66, D67, D82, D95, D156, D157, D158, D159, D160, D161, D183, D187, D194, D198, D197, D202, D203, D204, D205, D400, D401, D404, D402, D407, D403

THE FOLLOWING CONDUIT RUNS REQUIRING BORING AND JACKING TO CROSS I.R. 77 WILL NEED COMPLETED OR PARTIALLY COMPLETED THIS PHASE:

D38 TO D38A
D95 TO D95A
D202 TO D205

THE FOLLOWING TEMPORARY DRAINAGE CONNECTIONS WILL NEED MADE TO KEEP POSITIVE DRAINAGE IN EXISTING DRAINAGE SYSTEMS. ALSO THE FOLLOWING EXISTING DRAIN RUNS NEED TO REMAIN ACTIVE:

DA2 TO DA3 (REMAIN ACTIVE)
TEMPORARY CONNECTION DA3 TO D5
TEMPORARY CONNECTION DA28 TO D14
TEMPORARY CONNECTION DA50 TO D28
DA149 TO DA130 (REMAIN ACTIVE)
DA133 TO DA130 (REMAIN ACTIVE)
ABANDON DA181 BYPASS TO DA175
DA175 TO DA167 (REMAIN ACTIVE)
TEMPORARY CONNECTION DA167 TO D95
DA192 TO DA196 (REMAIN ACTIVE)
TEMPORARY CONNECTION DA196 TO D157
ABANDON DA198 BYPASS TO DA201
DA201 TO DA206 (REMAIN ACTIVE)
DA205 TO DA206 (REMAIN ACTIVE)
DA212 TO DA211/SZ27 (REMAIN ACTIVE)
DA227 TO DA220 (REMAIN ACTIVE)
DA248 TEMPORARY OUTFALL TO SWALE TO D206

PHASE 3

COMPLETE PROPOSED STORM SEWER LATERAL CROSSINGS OF NB I.R. 77 AND COMPLETE THE REMAINDER OF THE PROPOSED DRAINAGE SYSTEM. ABANDON ALL EXISTING FACILITIES THAT ARE NO LONGER INTENDED TO REMAIN IN SERVICE AFTER THE PROJECT IS COMPLETE.

THE FOLLOWING DRAINAGE STRUCTURES AND CORRESPONDING CONDUIT SEGMENTS BETWEEN STRUCTURES AND LATERALS ARE ASSUMED COMPLETE IN THE PHASE 3:

D4, D8, D13, D13A, D30, D31A, D31B, D33, D34, D34A, D44, D105, D45, D106, D46, D107, D47, D108, D47A, D53, D56, D57, D01A, D73, D74, D76A, D76, D77, D78, D81, D80, D79, D81A, D84A, D87, D89, D90, D91, D92, D93, D94A, D94, D150, D150X, D150X, D151A, D152, D154, D155, D184, D188, D189A, D189, D190, D191, D209, D408

REF NO.	PHASE	SIDE	STATION	OFFSET	CASTING/ GRATE ELEV.	INLET INV.	OUTLET INV. (*)	INLET ABANDONED 202 EACH	CATCH BASIN, NO. 2-2B 611 EACH	15" CONDUIT, TYPE B 611 FT	INLET ADJUSTED TO GRADE 611 EACH	INLET RECONSTRUCTED TO GRADE 611 EACH	15" SLOTTED DRAIN, TYPE 2 611 FT	MANHOLE, NO. 3 611 EACH	TEMPORARY DRAINAGE THROUGH 18" WIDE 1.25" DEEP (FOR INFORMATION ONLY) FT
			INTERSTATE 77												
DA-12A	PRE-PHASE 1	SB	79+00	57' LT.	693.2	691.0	690.7		1	15					
DA-21	PRE-PHASE 1	NB	80+00	55' RT.	695.7	691.7	689.9		1	140					
D-22	PRE-PHASE 1	SB	86+00	70' LT.	692.3	688.3	685.6		1	15					
DA-81	PRE-PHASE 1	SB	106+50	80' LT.	680.5	678.0	677.5		1	100					
DA-100	PRE-PHASE 1	NB	117+00	70' RT.	666.3	662.3	659.0		1	90	1				
DA-149	PRE-PHASE 1	NB	136+50	65' RT.	652.5	650.0	649.7		1	20	1				
D-195	PRE-PHASE 1	SB	196+50	70' LT.	662.5	658.5	657.3		1	45	1				
DA-284	PRE-PHASE 1	SB	199+50	60' LT.	658.7	655.0	654.8		1	30	1				
DA-283	PRE-PHASE 1	NB	199+50	83' RT.	657.5	653.5	651.6		1	35	1				
D-206	PRE-PHASE 1	NB	200+35	83' RT.	657.4	653.5	651.6		1	65	1				
DA-163	PRE-PHASE 1	MEDIAN	144+60								1				
DA-167	PRE-PHASE 1	MEDIAN	147+00								1				
DA-172	PRE-PHASE 1	MEDIAN	148+50								1				
DA-237	PRE-PHASE 1	MEDIAN	190+00								1				
DA-244	PRE-PHASE 1	MEDIAN	193+00								1				
DA-253	PRE-PHASE 1	MEDIAN	195+00								1				
DA-270	PRE-PHASE 1	MEDIAN	197+00								1				
	PRE-PHASE 1	MEDIAN	69+50 TO 74+40	SEE CROSSOVER DETAILS SHEET FOR INFO.									490		
	PRE-PHASE 1	MEDIAN	220+83 TO 225+40	SEE CROSSOVER DETAILS SHEET FOR INFO.						20		1	457		
	PRE-PHASE 1	MEDIAN	71+00	SEE CROSSOVER DETAILS SHEET FOR INFO.				1	1						
	PRE-PHASE 1	MEDIAN	73+00	SEE CROSSOVER DETAILS SHEET FOR INFO.				1	1					1	
	PRE-PHASE 1	MEDIAN	74+40	SEE CROSSOVER DETAILS SHEET FOR INFO.								1			
	PRE-PHASE 1	MEDIAN	223+60					1	1						
	PHASE 3	NB MEDIAN	74+50 TO 220+83												14,633
	TOTAL CARRIED TO THE GENERAL SUMMARY							3	9	575	6	3	947	1	

**-CONTRACTOR TO FIELD VERIFY INVERTS PRIOR TO ORDERING MATERIALS*

Preliminary Plans - For Reference Only

MAINTENANCE OF TRAFFIC GENERAL NOTES

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.34 TOTAL P.1269

DELINEATION OF PORTABLE AND PERMANENT BARRIER

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL AND ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

INCREASED BARRIER DELINEATION, AS SPECIFIED HEREIN, SHALL BE INSTALLED ON ALL PB AND PERMANENT CONCRETE BARRIER LOCATED WITHIN 5 FEET OF THE EDGE OF THE TRAVELED LANE UNDER EITHER OF THE FOLLOWING CONDITIONS: ALONG TAPERS AND TRANSITION AREAS; OR ALONG CURVES (OUTSIDE ONLY) WITH DEGREE OF CURVATURE GREATER THAN OR EQUAL TO 3 DEGREES.

THE INCREASED BARRIER DELINEATION SHALL CONSIST OF EITHER DELINEATION PANELS OR THE TRIPLE STACKING OF WORK ZONE BARRIER REFLECTORS.

DELINEATION PANELS SHALL CONSIST OF PANELS OF DELINEATION, APPROXIMATELY 34 INCHES LONG AND 6 INCHES WIDE AND SHALL BE "CRIMPED." PANELS SHALL BE INSTALLED AND SPACED PER TRAFFIC SCD MT-101.70.

TRIPLE-STACKED BARRIER REFLECTORS SHALL CONSIST OF ALIGNING THREE BARRIER REFLECTORS VERTICALLY, AT LOCATIONS WHERE A SINGLE BARRIER REFLECTOR WOULD BE OTHERWISE ATTACHED. THERE SHALL BE NO OPEN SPACE BETWEEN THE ADJACENT BARRIER REFLECTORS. THE TRIPLE-STACKED BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THEY SHALL BE SPACED AND ALIGNED PER TRAFFIC SCD MT-101.70.

THE FOLLOWING PAY ITEMS HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:

ITEM 614,	BARRIER REFLECTOR, TYPE 1 (ONE-WAY OR BI-DIRECTIONAL)	EACH
ITEM 614,	OBJECT MARKER, ONE-WAY	EACH
ITEM 614,	OBJECT MARKER, TWO-WAY	EACH
ITEM 614,	INCREASED BARRIER DELINEATION	FEET

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.

ALONG RUNS OF INCREASED BARRIER DELINEATION WHERE THIS ITEM IS PROVIDED, THE QUANTITY SHALL BE MEASURED AS THE ENTIRE LENGTH OF THE RUN OF INCREASED BARRIER DELINEATION, INCLUDING THE SPACES BETWEEN THE INDIVIDUAL DELINEATION PANELS OR STACKS OF BARRIER REFLECTORS.

DELINEATION OF TEMPORARY AND PERMANENT GUARDRAIL

BARRIER REFLECTORS SHALL BE INSTALLED ON ALL TEMPORARY GUARDRAIL USED FOR TRAFFIC CONTROL; AND, ON ALL PERMANENT GUARDRAIL LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE. BARRIER REFLECTORS SHALL CONFORM TO C&MS 626 AND THE SPACING SHALL BE APPROXIMATELY 50 FEET.

OBJECT MARKERS SHALL BE INSTALLED ON ALL TEMPORARY AND PERMANENT GUARDRAIL LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE. GUARDRAIL-MOUNTING OF OBJECT MARKERS SHALL BE MADE BY INSTALLING THE OBJECT MARKERS ON THE EXTENSION BLOCKS RATHER THAN DIRECTLY ONTO THE GUARDRAIL ITSELF. OBJECT MARKERS SHALL CONFORM TO C&MS 614.03 AND THE SPACING SHALL BE APPROXIMATELY 50 FEET WITH A 25 FOOT OFFSET FROM THE BARRIER REFLECTORS.

THE FOLLOWING PAY ITEMS HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:

ITEM 614,	BARRIER REFLECTOR, TYPE 2 (ONE-WAY OR BI-DIRECTIONAL)	EACH
ITEM 614,	OBJECT MARKER, ONE-WAY	EACH

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE ABOVE ITEM(S).

ITEM 614, WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN

WORK ZONE RAISED PAVEMENT MARKERS, AS PER PLAN, AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614 OR C&MS 621 AS SPECIFIED HEREIN.

-RAISED PAVEMENT MARKERS IN USE DURING THE SNOW-PLOWING SEASON SHALL CONFORM TO 621.
-RAISED PAVEMENT MARKERS IN USE DURING THE NON-SNOW-PLOW SEASON SHALL CONFORM TO EITHER 614 OR TO 621.

THE SNOW-PLOWING SEASON SHALL RUN FROM OCTOBER 15TH THROUGH APRIL 1ST.

IF PROJECT DELAYS, NOT THE FAULT OF ODOT, CAUSE THE WORK TO EXTEND INTO THE SNOW-PLOWING SEASON, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WORK ZONE RAISED PAVEMENT MARKERS (WZRPMS) CONFORMING TO C&MS 614, WITH RAISED PAVEMENT MARKERS CONFORMING TO 621, AS DETERMINED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

THIS ITEM SHALL INCLUDE PURCHASE, INSTALLATION AND REMOVAL OF ITEM 614 WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN, INCLUDING FILLING OF ANY DEPRESSIONS CREATED IN THE PAVEMENT AS PER C&MS 621.08.

RESURFACING OF THE TRANSITION AREAS SHALL BE PERFORMED AT THE TIME THAT THE SURFACE COURSE IS BEING APPLIED TO THE ENTIRE PROJECT. PRIOR TO APPLICATION OF THE SURFACE COURSE ON THE PROJECT, THE EXISTING PAVEMENT WITHIN THE TRANSITION AREA SHALL BE REMOVED TO A DEPTH NECESSARY TO REACH THE LEVEL OF THE INTERMEDIATE COURSE OF THE PAVEMENT, AS DETERMINED BY THE ENGINEER.

THE FOLLOWING BID ITEMS SHOULD BE INCLUDED IN THE PLANS:

ITEM 254	PAVEMENT PLANING, ASPHALT CONCRETE	SQUARE YARDS
ITEM 614	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	EACH

PAYMENT FOR RESURFACING WITHIN THE TRANSITION AREA SHALL BE PAID FOR UNDER THE APPROPRIATE BID ITEMS FOR THE WORK REQUIRED, AS PROVIDED FOR IN THE PLANS.

ITEM 614, WORK ZONE RAISED PAVEMENT MARKERS ON PERMANENT CONCRETE SURFACES

RAISED PAVEMENT MARKERS IN WORK ZONES, INSTALLED ON PERMANENT CONCRETE SURFACES, SHALL BE ITEM 614 WORK ZONE RAISED PAVEMENT MARKERS. WZRPMs ARE INTENDED FOR USE ONLY DURING THE NON-SNOW-PLOWING SEASON. WZRPMs SHALL NOT BE PROVIDED DURING THE SNOW-PLOWING SEASON.

THE SNOW-PLOWING SEASON SHALL RUN FROM OCTOBER 15TH THROUGH APRIL 1ST.

WHERE A TEMPORARY ALIGNMENT WILL REMAIN IN USE THROUGH THE WINTER, THE WZRPMS SHALL BE REMOVED PRIOR TO THE BEGINNING OF THE SNOW-PLOWING SEASON AND REPLACED APPROXIMATELY APRIL 1, OR AS OTHERWISE DETERMINED BY THE ENGINEER.

THIS ITEM SHALL INCLUDE PURCHASE, INSTALLATION AND REMOVAL OF ITEM 614 WORK ZONE RAISED PAVEMENT MARKERS.

AN ESTIMATED QUANTITY OF ITEM 614 WORK ZONE RAISED PAVEMENT MARKER HAS BEEN PROVIDED AND CARRIED TO THE GENERAL SUMMARY.

690E98000 - ITEM SPECIAL - REIMBURSEMENT FOR ITEMS PERMANENTLY DAMAGED BY TRAFFIC

THIS ITEM OF WORK PROVIDES A FIXED UNIT COST OF $1 PER EACH FOR THE REPAIR OR REPLACEMENT OF ITEMS PERMANENTLY DAMAGED BY TRAFFIC ELIGIBLE UNDER C&MS 107.15.

IF THE ENGINEER DETERMINES THAT THE REQUIREMENTS OF C&MS 107.15 HAVE BEEN MET, THE DEPARTMENT WILL REIMBURSE THE CONTRACTOR UPON RECEIPT AND ACCEPTANCE OF THE COSTS IN ACCORDANCE WITH C&MS 109.05. THE PAYMENT DUE WILL BE DEDUCTED FROM ITEM SPECIAL - REIMBURSEMENT FOR ITEMS PERMANENTLY DAMAGED BY TRAFFIC. C&MS TABLE 104.02-2 DOES NOT APPLY TO REDUCTIONS IN THIS CONTRACT ITEM.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM SPECIAL - REIMBURSEMENT FOR ITEMS PERMANENTLY DAMAGED BY TRAFFIC 250,000 EACH

RUMBLE STRIP REMOVAL

ALL EXISTING RUMBLE STRIPS THAT ARE IN CONFLICT WITH THE PROPOSED MOVEMENT OF TRAFFIC DURING THE MOT OPERATIONS SHALL BE REMOVED BY PAVEMENT PLANING. THE REMOVED RUMBLE STRIP AREAS SHALL BE FILLED WITH ASPHALT CONCRETE SURFACE COURSE. THE RUMBLE STRIP REMOVAL AND REPLACEMENT AREA SHALL BE 2.5 FEET WIDE AND 1.5 INCHES DEEP, CENTERED ON THE RUMBLE STRIP. THE PAVEMENT PLANING AND PLACEMENT OF ASPHALT CONCRETE SURFACE COURSE SHOULD BE COMPLETED IN THE SAME OPERATION. THE ESTIMATED REMOVAL AND REPLACEMENT LENGTH IS XXXX FT.

SEE SHEET P.42 FOR RUMBLE STRIP REMOVAL QUANTITIES. THE BELOW PAY ITEMS ARE USED TO COMPLETE THE REMOVAL AS DESCRIBED ABOVE:

ITEM 254,	PAVEMENT PLANING, ASPHALT CONCRETE (1.5" DEPTH)	SY
ITEM 407,	NON-TRACKING TACK COAT	GAL
ITEM 441,	ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), AS PER PLAN, PG64-22, 1-1/2"	CY

ITEM 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), AS PER PLAN, PG64-22

THE COARSE VIRGIN AGGREGATE FOR THIS ITEM SHALL CONSIST OF A BLEND OF 60% MIN. AIR COOLED BLAST FURNACE SLAG (ACBFS) OR TRAP ROCK FROM ONTARIO WITH LIMESTONE COMPRISING THE REMAINING PERCENTAGE.

IN ADDITION TO THE JOINT SEALING REQUIREMENTS SPECIFIED IN 401.17, THE CONTRACTOR SHALL SEAL THE PERIMETER OF ALL RUMBLE STRIP PAVEMENT REPLACEMENT AREAS. THE MATERIAL USED SHALL BE A CERTIFIED 702.01 PG BINDER. THE WIDTH OF THE SEALER SHALL BE 2–3 INCHES.

PAYMENT FOR ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO PERFORM THE ABOVE WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 442 – ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (449), AS PER PLAN, PG64-22.

ALTERNATE ROUTE ADVANCE WARNING SIGNAGE

PRIOR TO THE START OF LANE RESTRICTIONS IN PHASE 1 THE CONTRACTOR SHALL PLACE SIGNAGE ALONG THE ADJACENT FREEWAY NETWORKS ALERTING TRAFFIC TO THE ALTERNATE ROUTE FOR THE PROJECT. SIGN CADD DETAILS OF THE SIGNS TO BE PLACED CAN BE FOUND ON SHEET P.81. APPROXIMATE PLACEMENT LOCATIONS ARE SHOWN ON THE DETOUR PLANS FOR FULL CLOSURE OF I.R. 77 ON SHEET P.71-P.79. THE SIGNS SHALL MEET ALL REQUIREMENTS OF OMUTCD, ODOT TEM, AND ODOT SIGN DESIGN MANUAL. THE SIGNS SHALL BE UNOBSTRUCTED BY OTHER SIGNS AND HIGHWAY FEATURES AND SHALL BE PLACED BEHIND EXISTING BARRIERS WHEN POSSIBLE. PRIOR TO PLACEMENT THE CONTRACTOR SHALL CONTACT OUPS AND HAVE UTILITIES LOCATED AT THE SIGN PLACEMENT SITES AND SURVEY THE AREA OF SIGN PLACEMENT. THE SURVEY DATA AND UTILITY DATA ALONG WITH PROPOSED SIGN LOCATION SHALL BE USED BY THE CONTRACTOR TO CREATE A SIGNING PLAN AND ELEVATION VIEW. THE PLAN AND ELEVATION SHALL BE SUBMITTED TO THE FIELD ENGINEER FOR APPROVAL. UPON APPROVAL THE CONTRACTOR SHALL DESIGN AND FURNISH APPROPRIATE TEMPORARY WOOD SUPPORTS OR BREAKAWAY BEAM SUPPORTS PER MT-105.10 AND THE ODOT TEM FOR THE SIGNS. UPON COMPLETION OF THE PROJECT THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE SIGN AND SUPPORTS AND RESTORE THE AREA TO THE SATISFACTION OF THE ENGINEER. PAYMENT FOR ALL THE ABOVE SHALL BE INCLUDED WITH THE LUMP SUM PAYMENT FOR ITEM 614 – MAINTAINING TRAFFIC.

GENERAL SIGN PLACEMENT LOCATIONS FOR THE I.R. 77 NORTHBOUND ALTERNATE ROUTE SHALL INCLUDE I.R. 77 NORTHBOUND NEAR CHESTNUT ROAD OVERPASS, I.R. 480 WESTBOUND NEAR TURNEY ROAD OVERPASS, AND I.R. 480 EASTBOUND NEAR THE DMS SIGN BETWEEN STATE AND BROADVIEW ROAD. GENERAL SIGN PLACEMENT LOCATIONS FOR THE I.R. 77 SOUTHBOUND ALTERNATE ROUTE SHALL INCLUDE I.R. 490/OPPORTUNITY CORRIDOR WESTBOUND NEAR THE EAST 55TH STREET OVERPASS AND I.R. 90 EASTBOUND NEAR THE WEST 44TH STREET OVERPASS.

Preliminary Plans - For Reference Only

MODEL: Unnamed Plan-1 - Sheet 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:03 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743400-Engineering\MOT\Sheets\105743_MN001.dgn

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.35 TOTAL P.1269

PHASE	ROAD	REF NO.	DIR.	BEGIN STA.	END STA.	614 WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN (EACH)	614 WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT (MILE)	614 WORK ZONE LANE LINE, CLASS I, 6", AS PER PLAN (MILE)	614 WORK ZONE EDGE LINE, CLASS I, 6", WHITE, 807 PAINT (MILE)	614 WORK ZONE EDGE LINE, CLASS I, 6", YELLOW, 807 PAINT (MILE)	614 WORK ZONE EDGE LINE, CLASS I, 6", AS PER PLAN, WHITE (MILE)	614 WORK ZONE EDGE LINE, CLASS I, 6", AS PER PLAN, YELLOW (MILE)	614 WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT (FT)	614 WORK ZONE CHANNELIZING LINE, CLASS I, 12", AS PER PLAN (FT)	614 WORK ZONE DOTTED LINE, CLASS I, 807 PAINT (FT)	614 WORK ZONE DOTTED LINE, CLASS I, AS PER PLAN (FT)	614 WORK ZONE STOP LINE, CLASS I, 642 PAINT (FT)	614 WORK ZONE STOP LINE, CLASS I, AS PER PLAN (FT)	614 WORK ZONE ARROW, CLASS I, 642 PAINT (EACH)	614 WORK ZONE CROSSWALK LINE, CLASS I, 12", 642 PAINT (FT)	614 WORK ZONE ARROW, CLASS I, AS PER PLAN (EACH)	614 WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT (EACH)	642 REMOVAL OF PAVEMENT MARKING (FT)	642 REMOVAL OF PAVEMENT MARKING (MILE)	642 REMOVAL OF PAVEMENT MARKING (EACH)	MARKING TYPE REMOVED		
MARKINGS REMOVED																												
PRE-PHASE 1	IR-77		NB	46+00	57+00																		0.21		ELW			
PRE-PHASE 1	IR-77		NB	46+00	57+00																		0.21		LL			
PRE-PHASE 1	RAMP A1		NB	72+98																				1	LA			
PRE-PHASE 1	RAMP A1		NB	73+97																				1	LA			
PRE-PHASE 1	RAMP A1		NB	74+83																				1	LA			
PRE-PHASE 1	IR-77		SB	72+00	74+00																		0.04		ELW			
PRE-PHASE 1	IR-77		SB	84+50	85+93																	143			CHW			
PRE-PHASE 1	IR-77		SB	96+00	97+50																		0.03		ELW			
PRE-PHASE 1	IR-77		SB	104+17	108+00																	383			CHW			
PRE-PHASE 1	IR-77		SB	120+00	122+50																	250			CHW			
PRE-PHASE 1	IR-77		SB	72+00	174+00																		1.93		LL			
PRE-PHASE 1	IR-77		SB	150+00	151+50																		0.03		ELW			
PRE-PHASE 1	IR-77		SB	173+00	174+00																		0.02		ELW			
WORK ZONE PAVEMENT MARKINGS / RPMS																												
PRE-PHASE 1	IR-77	ELW1	NB	46+00	57+00		0.21		0.21																			
PRE-PHASE 1	RAMP A1	LL1	NB	71+06	72+82				0.03																			
PRE-PHASE 1	RAMP A1	LA1	NB	72+98														1										
PRE-PHASE 1	RAMP A1	LA2	NB	73+97																	1							
PRE-PHASE 1	IR-77	LA3	NB	74+83														1										
PRE-PHASE 1	IR-77	ELW2	SB	72+00	84+50				0.24																			
PRE-PHASE 1	IR-77	CHW1	SB	84+50	85+93								143															
PRE-PHASE 1	IR-77	ELW3	SB	88+78	97+50				0.17																			
PRE-PHASE 1	IR-77	CHW2	SB	104+17	108+00								383															
PRE-PHASE 1	IR-77	ELW4	SB	108+00	121+00				0.25																			
PRE-PHASE 1	IR-77	CHW3	SB	121+00	122+50								150															
PRE-PHASE 1	IR-77	ELW5	SB	128+50	151+50				0.44																			
PRE-PHASE 1	IR-77	ELW6	SB	157+00	174+00				0.32																			
PRE-PHASE 1	IR-77	LL2	SB	72+00	174+00			1.93																				
RESTRIPING OF PRE-PHASE 1 MARKINGS							0.21	1.93	1.65				676					2			1	776					
SUBTOTALS FOR PRE-PHASE 1 CARRIED TO SHEET 41							0.42	3.86	3.29				1352					4			2	1552	2.46	3			
MARKINGS REMOVED																												
1A	IR-77		NB	42+50	69+50																		0.51		ELY			
1A	IR-77		NB	42+50	50+00																		0.14		LL			
1A	IR-77		NB	46+00	57+00																		0.21		LL			
1A	IR-77		NB	46+00	57+00																		0.21		ELW			
1A	IR-77		NB	74+50	227+97																		2.91		ELY			
1A	IR-77		NB	66+50	229+00																		3.08		LL			
1A	IR-77		NB	66+50	229+00																		3.08		LL			
1A	IR-77		NB	69+50	229+00																		3.02		ELW/CHW/DL			
1A	RAMP A4		NB	81+00	83+75																	275			CHW			
1A	RAMP A4		NB	84+04	89+00																		0.09		ELW			
1A	RAMP B1		NB	101+50	107+30																		0.11		ELW			
1A	RAMP B1		NB	105+70	107+30																	160			CHW			
1A	RAMP B4		NB	118+00	122+00																		0.08		ELW			
1A	RAMP B4/C1		NB	118+00	130+50																	1250			CHW			
1A	RAMP C1		NB	129+50	130+50																	100			CHW			
1A	RAMP C3		NB	151+50	152+50																		0.02		ELW			
1A	RAMP C3		NB	152+50	158+50																		0.11		ELW			
1A	RAMP D1		NB	183+00	190+29																	729			CHW			
1A	RAMP D1		NB	188+50	190+29																		0.03		ELW			
1A	RAMP E1		NB	196+50	207+05																		0.20		CHW/ELY			
1A	RAMP E1		NB	203+00	207+05																		0.08		ELW			
1A	RAMP J4		NB	208+00	219+24																	1124			CHW			
1A	RAMP J4		NB	214+25	219+24																	499			CHW			
1A	IR-77		SB	69+00	226+00																		2.97		LL			
1A	IR-77		SB	59+50	68+65																	915			DL			
1A	IR-77		SB	59+50	74+50																		0.28		LL			
1A	IR-77		SB	66+50	75+10																		0.16		LL			
1A	IR-77		SB	74+50	229+00																		2.93		ELW			
1A	IR-77		SB	86+00	107+00																		0.40		LL			
1A	IR-77		SB	86+00	89+50																	350			DL			
1A	IR-77		SB	84+50	86+00																	150			CHW			
1A	IR-77		SB	84+50	86+00																	150			CHW			
SUBTOTAL PHASE 1A CARRIED TO SHEET 41																						5702	20.62					

For Reference Only
Preliminary Plans - Fo

MODEL: Unnamed Plan - Plan 1 (Sheet) PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:10 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - ExternalOhio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\MOTSheets105743_MS001.dgn

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 04/30/26
PROJECT ID 105743
SHEET P.36 TOTAL P.1269

PHASE	ROAD	REF NO.	DIR.	BEGIN STA.	END STA.	614 WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN (EACH)	614 WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT (MILE)	614 WORK ZONE LANE LINE, CLASS I, 6", AS PER PLAN (MILE)	614 WORK ZONE EDGE LINE, CLASS I, 6", WHITE, 807 PAINT (MILE)	614 WORK ZONE EDGE LINE, CLASS I, 6", YELLOW, 807 PAINT (MILE)	614 WORK ZONE EDGE LINE, CLASS I, 6", AS PER PLAN, WHITE (MILE)	614 WORK ZONE EDGE LINE, CLASS I, 6", AS PER PLAN, YELLOW (MILE)	614 WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT (FT)	614 WORK ZONE CHANNELIZING LINE, CLASS I, 12", AS PER PLAN (FT)	614 WORK ZONE DOTTED LINE, CLASS I, 807 PAINT (FT)	614 WORK ZONE DOTTED LINE, CLASS I, AS PER PLAN (FT)	614 WORK ZONE STOP LINE, CLASS I, 642 PAINT (FT)	614 WORK ZONE STOP LINE, CLASS I, AS PER PLAN (FT)	614 WORK ZONE ARROW, CLASS I, 642 PAINT (EACH)	614 WORK ZONE CROSSWALK LINE, CLASS I, 12", 642 PAINT (FT)	614 WORK ZONE ARROW, CLASS I, AS PER PLAN (EACH)	614 WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT (EACH)	642 REMOVAL OF PAVEMENT MARKING (FT)	642 REMOVAL OF PAVEMENT MARKING (MILE)	642 REMOVAL OF PAVEMENT MARKING (EACH)	MARKING TYPE REMOVED
MARKINGS REMOVED																										
1A	IR-77		SB	84+50	90+00																			0.10		LL
1A	IR-77		SB	104+00	110+00																			0.11		LL
1A	IR-77		SB	105+50	107+00																		150			CHW
1A	IR-77		SB	106+50	109+10																			0.05		CHW/ELY
1A	IR-77		SB	122+00	129+50																			0.14		LL
1A	IR-77		SB	121+50	122+50																		100			CHW
1A	IR-77		SB	122+50	125+00																		250			DL
1A	IR-77		SB	119+00	122+50																			0.07		CHW/ELY
1A	IR-77		SB	154+50	159+00																			0.09		LL
1A	IR-77		SB	153+00	159+00																			0.11		LL
1A	IR-77		SB	152+83	153+60																		77			CHW
1A	IR-77		SB	152+83	153+60																		77			CHW
1A	IR-77		SB	153+60	157+00																		340			DL
1A	IR-77		SB	176+00	182+00																			0.11		LL
1A	IR-77		SB	181+50	189+00																			0.14		LL
1A	IR-77		SB	185+00	189+00																		400			DL
1A	IR-77		SB	204+00	209+00																			0.09		LL
1A	IR-77		SB	208+50	214+00																			0.10		LL
1A	IR-77		SB	211+00	214+50																		350			DL/CHW
1A	IR-77		SB	213+50	214+50																		100			CHW
1A	IR-77		SB	217+00	223+50																			0.12		LL
1A	IR-77		SB	217+50	220+00																			0.05		ELY
1A	IR-77		SB	220+00	226+00																			0.11		ELY
1A	IR-77		SB	220+00	226+00																			0.11		LL
1A	IR-77		SB	244+00	248+26																		426			CHW/DL
1A	IR-77		SB	244+00	247+00																		300			CHW
1A	IR-77		SB	244+32	266+51																			0.42		LL
1A	ORANGE		EB	278+11																					1	LA
1A	ORANGE		EB	278+66																					1	LA
1A	ORANGE		EB	279+20																					1	LA
1A	ORANGE		EB	279+75																					1	LA
WORK ZONE PAVEMENT MARKINGS / RPMS																										
1A	IR-77	ELY1	NB	42+50	229+00							3.53														
1A	IR-77	DL1	NB	42+50	49+50											700										
1A	IR-77	LL1	NB	46+00	57+00			0.21			0.21															
1A	IR-77	ELW1	NB	66+50	77+50						0.21	0.21		1100												
1A	IR-77	CHW1	NB	77+50	202+00			2.36																		
1A	IR-77	LL2	NB	202+00	229+00						0.51	0.51		2700												
1A	IR-77	CHW2	NB	66+50	69+50									300												
1A	IR-77	CHW3	NB	69+50	81+00					0.22	0.22															
1A	IR-77	ELW2	NB	81+00	84+00								300													
1A	IR-77	CHW4	NB	81+00	84+00								300													
1A	IR-77	DL2	NB	84+00	91+50											750										
1A	IR-77	ELW3	NB	84+00	107+22						0.44															
1A	IR-77	DL3	NB	101+50	105+38											388										
1A	IR-77	CHW5	NB	105+38	107+30									192												
1A	IR-77	CHW6	NB	105+38	107+30									192												
1A	IR-77	ELW4	NB	107+30	118+00						0.20															
1A	IR-77	CHW7	NB	118+00	122+00									400												
1A	IR-77	DL4	NB	122+00	130+44											844										
1A	IR-77	CHW8	NB	118+00	122+00									400												
1A	IR-77	ELW5	NB	119+82	130+50						0.20															
1A	IR-77	CHW9	NB	130+44	133+00									256												
1A	IR-77	ELW6	NB	133+00	147+00						0.27															
1A	IR-77	CHW10	NB	147+00	152+50									550												
1A	IR-77	DL5	NB	152+50	158+50											600										
1A	IR-77	CHW11	NB	147+00	152+50									550												
1A	IR-77	ELW7	NB	152+50	190+29						0.72															
1A	IR-77	DL6	NB	183+00	187+85											485										
1A	IR-77	CHW12	NB	187+85	191+00									315												
1A	IR-77	CHW13	NB	187+85	190+29									244												
1A	IR-77	ELW8	NB	191+00	207+05						0.30															
1A	IR-77	DL7	NB	197+50	202+18											468										
1A	IR-77	CHW14	NB	202+18	205+00									282												
SUBTOTAL PHASE 1A CARRIED TO SHEET 41								2.57		0.22	3.28	4.25	600	7481		4235							2570	1.95	4	

Preliminary Plans - Not For Reference Only

MODEL: Unnamed Plan-1 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:10 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MS001.dgn

MAINTENANCE OF TRAFFIC SUBSUMMARY

DESIGN AGENCY
HNTB

DESIGNER JEM

REVIEWER MTR 04/30/26

PROJECT ID 105743

SHEET P.37 TOTAL P.1269

PHASE	ROAD	REF NO.	DIR.	BEGIN STA.	END STA.	614 WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN (EACH)	614 WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT (MILE)	614 WORK ZONE LANE LINE, CLASS I, 6", AS PER PLAN (MILE)	614 WORK ZONE EDGE LINE, CLASS I, 6", WHITE, 807 PAINT (MILE)	614 WORK ZONE EDGE LINE, CLASS I, 6", YELLOW, 807 PAINT (MILE)	614 WORK ZONE EDGE LINE, CLASS I, 6", AS PER PLAN, WHITE (MILE)	614 WORK ZONE EDGE LINE, CLASS I, 6", AS PER PLAN, YELLOW (MILE)	614 WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT (FT)	614 WORK ZONE CHANNELIZING LINE, CLASS I, 12", AS PER PLAN (FT)	614 WORK ZONE DOTTED LINE, CLASS I, 807 PAINT (FT)	614 WORK ZONE DOTTED LINE, CLASS I, AS PER PLAN (FT)	614 WORK ZONE STOP LINE, CLASS I, 642 PAINT (FT)	614 WORK ZONE STOP LINE, CLASS I, AS PER PLAN (FT)	614 WORK ZONE ARROW, CLASS I, 642 PAINT (EACH)	614 WORK ZONE CROSSWALK LINE, CLASS I, 12", 642 PAINT (FT)	614 WORK ZONE ARROW, CLASS I, AS PER PLAN (EACH)	614 WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT (EACH)	642 REMOVAL OF PAVEMENT MARKING (FT)	642 REMOVAL OF PAVEMENT MARKING (MILE)	642 REMOVAL OF PAVEMENT MARKING (EACH)	MARKING TYPE REMOVED			
WORK ZONE PAVEMENT MARKINGS / RPMS																														
1A	IR-77	CHW15	NB	202+18	205+17									299																
1A	IR-77	ELY2	NB	205+17	207+05							0.04																		
1A	IR-77	ELW9	NB	205+00	219+24						0.27																			
1A	IR-77	DL8	NB	209+00	213+28											428														
1A	IR-77	CHW16	NB	213+28	219+24									596																
1A	IR-77	CHW17	NB	213+28	220+00									672																
1A	IR-77	ELW10	NB	220+00	229+00						0.17																			
1A	IR-77	CHW18	SB	59+50	68+62								912																	
1A	IR-77	CHW19	SB	59+50	69+88								1038																	
1A	IR-77	ELW11	SB	69+90	85+00				0.29																					
1A	IR-77	CHW20	SB	66+50	74+50								800																	
1A	IR-77	ELY3	SB	74+50	217+50					2.71																				
1A	IR-77	CHW21	SB	69+50	74+50								500																	
1A	IR-77	ELW12	SB	74+50	222+85				2.81																					
1A	IR-77	ELY4	SB	66+50	229+00					3.08																				
1A	IR-77	ELY5	SB	69+00	226+00							2.97																		
1A	IR-77	CHW22	SB	85+00	86+00								100																	
1A	IR-77	CHW23	SB	84+60	86+00								140																	
1A	IR-77	DL9	SB	86+00	104+00										1800															
1A	IR-77	ELW13	SB	84+60	109+10				0.46																					
1A	IR-77	CHW24	SB	104+00	105+46								146																	
1A	IR-77	ELY6	SB	105+46	109+10					0.07																				
1A	IR-77	CHW25	SB	104+00	105+46								146																	
1A	IR-77	ELW14	SB	105+46	122+50				0.32																					
1A	IR-77	CHW26	SB	122+50	124+00								150																	
1A	IR-77	ELY7	SB	118+90	122+50					0.07																				
1A	IR-77	CHW27	SB	122+50	124+00								150																	
1A	IR-77	DL10	SB	124+00	130+00										600															
1A	IR-77	ELW15	SB	118+90	153+00				0.65																					
1A	IR-77	CHW28	SB	153+00	154+50								150																	
1A	IR-77	CHW29	SB	152+83	154+50																									
1A	IR-77	DL11	SB	154+50	159+00										450															
1A	IR-77	ELW16	SB	152+83	188+77				0.68																					
1A	IR-77	DL12	SB	176+00	182+00										600															
1A	IR-77	CHW30	SB	182+00	185+00								300																	
1A	IR-77	ELY7	SB	185+00	188+77					0.07																				
1A	IR-77	CHW31	SB	182+00	185+00								300																	
1A	IR-77	ELW17	SB	185+00	214+53					0.56																				
1A	IR-77	DL13	SB	204+00	209+00										500															
1A	IR-77	CHW32	SB	209+00	211+50								250																	
1A	IR-77	CHW33	SB	209+00	211+50								250																	
1A	IR-77	ELY8	SB	211+50	214+53					0.06																				
1A	IR-77	ELW18A	SB	211+50	228+00				0.31																					
1A	IR-77	ELW18B	SB	228+00	241+50						0.26																			
1A	IR-77	CHW34A	SB	217+50	228+00								1050																	
1A	IR-77	CHW34B	SB	228+00	232+00									400																
1A	IR-77	CHW36	SB	241+50	246+85									535																
1A	IR-77	CHW37	SB	244+13	246+85									272																
1A	IR-77	DL14	SB	246+85	266+51										1966															
1A	IR-77	ELW19	SB	245+63	276+63				0.59																					
1A	IR-77	CHW38	SB	200+00	226+00								2600																	
1A	IR-77	ELW20	SB	200+00	226+00				0.49																					
1A	IR-77		NB	66+50	77+50	56																								
1A	IR-77		NB	66+50	77+50	56																								
1A	IR-77		NB	66+50	77+50	56																								
1A	IR-77		NB	77+50	202+00	105																								
1A	IR-77		NB	202+00	229+00	136																								
1A	IR-77		NB	202+00	229+00	136																								
1A	IR-77		NB	202+00	229+00	136																								
1A	IR-77		SB	66+50	77+50	56																								
1A	IR-77		SB	66+50	77+50	56																								
1A	IR-77		SB	70+11	77+50	38																								
1A	IR-77		SB	66+50	77+50	56																								
1A	IR-77		SB	217+50	232+00	74																								
SUBTOTAL PHASE 1A CARRIED TO SHEET 41						961			6.60	6.61	0.70	3.01	8982	2774	5916	428														

Preliminary Plans - Not For Reference Only

MAINTENANCE OF TRAFFIC SUBSUMMARY

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 04/30/26
PROJECT ID 105743
SHEET P.38 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Unnamed Plan-2 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:11 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MS001.dgn

PHASE	ROAD	REF NO.	DIR.	BEGIN STA.	END STA.	614 WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN (EACH)	614 WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT (MILE)	614 WORK ZONE LANE LINE, CLASS I, 6", AS PER PLAN (MILE)	614 WORK ZONE EDGE LINE, CLASS I, 6", WHITE, 807 PAINT (MILE)	614 WORK ZONE EDGE LINE, CLASS I, 6", YELLOW, 807 PAINT (MILE)	614 WORK ZONE EDGE LINE, CLASS I, 6", AS PER PLAN, WHITE (MILE)	614 WORK ZONE EDGE LINE, CLASS I, 6", AS PER PLAN, YELLOW (MILE)	614 WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT (FT)	614 WORK ZONE CHANNELIZING LINE, CLASS I, 12", AS PER PLAN (FT)	614 WORK ZONE DOTTED LINE, CLASS I, 807 PAINT (FT)	614 WORK ZONE DOTTED LINE, CLASS I, AS PER PLAN (FT)	614 WORK ZONE STOP LINE, CLASS I, 642 PAINT (FT)	614 WORK ZONE STOP LINE, CLASS I, AS PER PLAN (FT)	614 WORK ZONE ARROW, CLASS I, 642 PAINT (EACH)	614 WORK ZONE CROSSWALK LINE, CLASS I, 12", 642 PAINT (FT)	614 WORK ZONE ARROW, CLASS I, AS PER PLAN (EACH)	614 WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT (EACH)	642 REMOVAL OF PAVEMENT MARKING (FT)	642 REMOVAL OF PAVEMENT MARKING (MILE)	642 REMOVAL OF PAVEMENT MARKING (EACH)	MARKING TYPE REMOVED		
WORK ZONE PAVEMENT MARKINGS / RPMS																													
1A	IR-77		SB	217+50	232+00	74																							
1A	IR-77		SB	220+00	226+00	31																							
1A	IR-77		SB	220+00	229+00	46																							
1A	ORANGE		EB	278+11																	1								
1A	ORANGE		EB	278+66																	1								
1A	ORANGE		EB	279+20																	1								
1A	ORANGE		EB	279+75																	1								
RESTRIPING OF PHASE 1A CLASS I MARKINGS									6.60	6.61	0.26	2.97	8982	1207	5916														
SUBTOTALS FOR PHASE 1A CARRIED TO SHEET 41						151			6.60	6.61	0.26	2.97	8982	1207	5916						4								
WORK ZONE PAVEMENT MARKINGS / RPMS																													
1B	IR-77	ELW1	SB	85+00	106+50				0.41																				
1B	IR-77	ELW2	SB	122+00	130+00				0.16																				
1B	IR-77	ELW3	SB	153+00	159+00				0.12																				
1B	IR-77	ELW4	SB	176+00	185+00				0.18																				
1B	IR-77	ELY1	SB	194+50	201+50					0.14																			
1B	IR-77	ELW5	SB	194+50	201+50				0.14																				
1B	IR-77	ELW6	SB	201+50	214+53						0.25																		
1B	IR-77	ELY2	SB	201+50	220+83					0.37																			
1B	IR-77	DL1	SB	201+50	210+75													925											
1B	IR-77	CHW1	SB	210+75	214+53									378															
1B	IR-77	CHW2	SB	210+75	220+83									1008															
1B	IR-77	ELW7	SB	220+83	228+00							0.14																	
1B	IR-77	CHW3	SB	220+83	228+00									717															
1B	IR-77		SB	217+83	228+00	52																							
1B	IR-77		SB	217+83	228+00	52																							
SUBTOTALS FOR PHASE 1B CARRIED TO SHEET 41						104			1.01	0.51	0.25	0.14		2103		925													
WORK ZONE PAVEMENT MARKINGS / RPMS																													
1C	IR-77	ELW1	SB	66+50	84+00						0.34																		
1C	IR-77	CHW1	SB	66+50	79+00									1250															
1C	IR-77	CHW2	SB	66+50	74+50									800															
1C	IR-77	ELY1	SB	74+50	101+00							0.51																	
1C	IR-77	LL1	SB	79+00	98+00			0.36																					
1C	IR-77	CHW3	SB	84+00	86+50									250															
1C	IR-77	DL1	SB	86+50	89+37													287											
1C	IR-77	ELW2	SB	89+37	93+55						0.08																		
1C	IR-77	DL2	SB	93+55	101+00													745											
1C	IR-77	CHW4	SB	101+00	111+00								1000																
1C	IR-77	CHW5	SB	98+00	107+00								900																
1C	IR-77	ELY2	SB	101+00	107+00					0.12																			
1C	IR-77	ELW3	SB	157+34	169+50				0.24																				
1C	IR-77	ELY3	SB	157+34	161+95					0.09																			
1C	IR-77	CHW6	SB	161+95	165+18								323																
1C	IR-77	DL3	SB	165+18	169+50										432														
1C	IR-77		SB	69+50	79+00	49																							
1C	IR-77		SB	69+50	79+00	49																							
1C	IR-77		SB	69+50	79+00	49																							
1C	IR-77		SB	79+00	98+00	17																							
1C	IR-77		SB	98+00	109+00	56																							
1C	IR-77		SB	98+00	109+00	56																							
WORK ZONE MARKINGS IN PERMANENT POSITIONS ALONG RAMPS																													
1C	RAMP A3		SB	BEGIN	END						0.23	0.14		290				32		110	4								
1C	RAMP B2		SB	BEGIN	END						0.20	0.06		446															
1C	RAMP C2		SB	BEGIN	END						0.21	0.07		420				40			6								
SUBTOTALS FOR PHASE 1C CARRIED TO SHEET 41						276		0.36	0.24	0.21	1.06	0.78	2223	3456	432	1032		72		110	10								
WORK ZONE PAVEMENT MARKINGS / RPMS																													
2	IR-77	LL1	SB	98+00	141+50			0.83																					
2	IR-77	DL1	SB	101+00	104+25													325											
2	IR-77	ELY1	SB	101+00	228+00							2.41																	
2	IR-77	CHW1	SB	104+25	108+65									440															
2	IR-77	ELW1	SB	108+65	119+58						0.21																		
2	IR-77	CHW2	SB	119+58	121+58									200															
SUBTOTALS FOR PHASE 2 CARRIED TO SHEET 41								0.83			0.21	2.41		640		325													

Preliminary Plans - For Reference Only

MODEL: Unnamed Plan-3 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:12 AM PLTDRV: OHDOT_PDF.pltdg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MS001.dgn

CUY-77-11.41 - PART 1

MAINTENANCE OF TRAFFIC SUBSUMMARY

DESIGN AGENCY
HNTB

DESIGNER
JEM

REVIEWER
MTR 04/30/26

PROJECT ID
105743

SHEET P.39 TOTAL P.1269

PHASE	ROAD	REF NO.	DIR.	BEGIN STA.	END STA.	614 WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN (EACH)	614 WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT (MILE)	614 WORK ZONE LANE LINE, CLASS I, 6", AS PER PLAN (MILE)	614 WORK ZONE EDGE LINE, CLASS I, 6", WHITE, 807 PAINT (MILE)	614 WORK ZONE EDGE LINE, CLASS I, 6", YELLOW, 807 PAINT (MILE)	614 WORK ZONE EDGE LINE, CLASS I, 6", AS PER PLAN, WHITE (MILE)	614 WORK ZONE EDGE LINE, CLASS I, 6", AS PER PLAN, YELLOW (MILE)	614 WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT (FT)	614 WORK ZONE CHANNELIZING LINE, CLASS I, 12", AS PER PLAN (FT)	614 WORK ZONE DOTTED LINE, CLASS I, 807 PAINT (FT)	614 WORK ZONE DOTTED LINE, CLASS I, AS PER PLAN (FT)	614 WORK ZONE STOP LINE, CLASS I, 642 PAINT (FT)	614 WORK ZONE STOP LINE, CLASS I, AS PER PLAN (FT)	614 WORK ZONE ARROW, CLASS I, 642 PAINT (EACH)	614 WORK ZONE CROSSWALK LINE, CLASS I, 12", 642 PAINT (FT)	614 WORK ZONE ARROW, CLASS I, AS PER PLAN (EACH)	614 WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT (EACH)	642 REMOVAL OF PAVEMENT MARKING (FT)	642 REMOVAL OF PAVEMENT MARKING (MILE)	642 REMOVAL OF PAVEMENT MARKING (EACH)	MARKING TYPE REMOVED		
WORK ZONE PAVEMENT MARKINGS / RPMS																												
2	IR-77	DL2	SB	121+58	127+08											550												
2	IR-77	ELW2	SB	127+08	152+00						0.48																	
2	IR-77	CHW3	SB	141+50	155+00									1350														
2	IR-77	CHW4	SB	152+00	153+29									129														
2	IR-77	DL3	SB	153+29	157+34											405												
2	IR-77	ELW3	SB	157+34	176+82						0.37																	
2	IR-77	LL2	SB	155+00	217+83			1.19																				
2	IR-77	DL4	SB	176+83	187+75											1092												
2	IR-77	CHW5	SB	176+83	187+75									1092														
2	IR-77	ELW4	SB	192+13	201+50						0.18																	
2	IR-77	CHW6	SB	217+83	228+00									1017														
2	IR-77		SB	98+00	141+50	38																						
2	IR-77		SB	141+50	155+00	69																						
2	IR-77		SB	141+50	155+00	69																						
2	IR-77		SB	141+50	155+00	69																						
2	IR-77		SB	155+00	217+83	54																						
2	IR-77		SB	217+83	228+00	52																						
2	IR-77		SB	217+83	228+00	52																						
WORK ZONE MARKINGS IN PERMANENT POSITIONS ALONG RAMPS																												
2	RAMP B3		SB								0.40	0.13		579							9							
2	RAMP D2		SB								0.21	0.11		554														
SUBTOTALS FOR PHASE 2 CARRIED TO SHEET 41						403		1.19			1.64	0.24		4721		2047					9							
WORK ZONE PAVEMENT MARKINGS / RPMS																												
3A	IR-77	CHW1	NB	65+00	66+50								150															
3A	IR-77	ELY1	NB	68+00	229+00					3.05																		
3A	IR-77	CHW2	NB	68+00	74+50								650															
3A	IR-77	CHW3	NB	68+00	70+00								200															
3A	IR-77	ELW1	NB	70+00	84+00				0.27																			
3A	IR-77	CHW4	NB	69+11	74+50								539															
3A	IR-77	ELY2	NB	74+50	217+00				2.70																			
3A	IR-77	ELW2	NB	74+50	217+00					2.70																		
3A	IR-77	CHW5	NB	84+00	86+00								200															
3A	IR-77	DL1	NB	86+00	92+00											600												
3A	RAMP A4	ELW3	NB	79+00	92+00				0.25																			
3A	RAMP A4	CHW6	NB	81+32	86+00								468															
3A	IR-77	ELW4	NB	92+00	107+19				0.29																			
3A	IR-77	DL2	NB	100+50	105+00											450												
3A	IR-77	CHW7	NB	105+00	106+25								125															
3A	IR-77	ELW5	NB	106+25	159+00				1.00																			
3A	RAMP B1	CHW8	NB	105+00	107+30								230															
3A	RAMP C3	ELY3	NB	152+50	159+00					0.13																		
3A	RAMP C3	ELW6	NB	152+50	169+00				0.32																			
3A	IR-77	CHW9	NB	159+00	161+00								200															
3A	IR-77	CHW10	NB	159+00	163+00								400															
3A	IR-77	DL3	NB	163+00	169+00											600												
3A	IR-77	ELW7	NB	169+00	190+33				0.41																			
3A	IR-77	DL4	NB	184+50	188+71											421												
3A	IR-77	CHW11	NB	188+71	191+45								274															
3A	IR-77	ELW8	NB	191+00	203+32				0.24																			
3A	IR-77	DL5	NB	197+00	201+50											450												
3A	IR-77	CHW12	NB	201+50	205+55								405															
3A	IR-77	CHW13	NB	201+50	203+00								150															
3A	IR-77	ELW9	NB	203+00	219+22				0.31																			
3A	IR-77	DL6	NB	208+50	212+00											350												
3A	IR-77	CHW14	NB	212+00	213+50								150															
3A	IR-77	CHW15	NB	212+00	213+50								150															
3A	IR-77	ELW10	NB	213+50	226+00				0.24																			
3A	IR-77	ELY4	NB	213+50	219+22					0.11																		
3A	IR-77	CHW16	NB	217+00	224+94								794															
3A	IR-77	CHW17	NB	217+00	229+00								1200															
3A	IR-77		NB	65+00	66+50	9																						
3A	IR-77		NB	68+00	77+50	49																						
3A	IR-77		NB	68+00	77+50	49																						
SUBTOTALS FOR PHASE 3A CARRIED TO SHEET 41						107			6.03	5.99			6285		2871													

Preliminary Plans - For Reference Only

MAINTENANCE OF TRAFFIC SUBSUMMARY

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 04/30/26
PROJECT ID 105743
SHEET P.40 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Unnamed Plan-4 - Plan 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:12 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\3015525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MS001.dgn

PHASE	ROAD	REF NO.	DIR.	BEGIN STA.	END STA.	614 WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN (EACH)	614 WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT (MILE)	614 WORK ZONE LANE LINE, CLASS I, 6", AS PER PLAN (MILE)	614 WORK ZONE EDGE LINE, CLASS I, 6", WHITE, 807 PAINT (MILE)	614 WORK ZONE EDGE LINE, CLASS I, 6", YELLOW, 807 PAINT (MILE)	614 WORK ZONE EDGE LINE, CLASS I, 6", AS PER PLAN, WHITE (MILE)	614 WORK ZONE EDGE LINE, CLASS I, 6", AS PER PLAN, YELLOW (MILE)	614 WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT (FT)	614 WORK ZONE CHANNELIZING LINE, CLASS I, 12", AS PER PLAN (FT)	614 WORK ZONE DOTTED LINE, CLASS I, 807 PAINT (FT)	614 WORK ZONE DOTTED LINE, CLASS I, AS PER PLAN (FT)	614 WORK ZONE STOP LINE, CLASS I, 642 PAINT (FT)	614 WORK ZONE STOP LINE, CLASS I, AS PER PLAN (FT)	614 WORK ZONE ARROW, CLASS I, 642 PAINT (EACH)	614 WORK ZONE CROSSWALK LINE, CLASS I, 12", 642 PAINT (FT)	614 WORK ZONE ARROW, CLASS I, AS PER PLAN (EACH)	614 WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT (EACH)	642 REMOVAL OF PAVEMENT MARKING (FT)	642 REMOVAL OF PAVEMENT MARKING (MILE)	642 REMOVAL OF PAVEMENT MARKING (EACH)	MARKING TYPE REMOVED		
WORK ZONE PAVEMENT MARKINGS / RPMS																												
3A	IR-77		NB	68+00	77+50	49																						
3A	IR-78		NB	68+00	77+50	49																						
3A	IR-77		NB	217+00	229+00	61																						
3A	IR-77		NB	217+00	229+00	61																						
3A	IR-77		NB	217+00	224+94	41																						
3A	IR-77		NB	217+00	226+00	46																						
RESTRIPING OF PHASE 3A CLASS I MARKINGS									6.03				6285		2871													
SUBTOTALS FOR PHASE 3A						307			6.03				6285		2871													
WORK ZONE PAVEMENT MARKINGS / RPMS																												
3B	IR-77	ELW1	NB	86+00	92+00				0.12																			
3B	IR-77	ELW2	NB	100+53	105+00				0.09																			
3B	IR-77	ELW3	NB	163+00	169+00				0.12																			
3B	IR-77	ELW4	NB	184+50	188+71				0.08																			
3B	IR-77	ELW5	NB	197+00	201+50				0.09																			
SUBTOTALS FOR PHASE 3B									0.50																			
WORK ZONE PAVEMENT MARKINGS / RPMS																												
3C	IR-77	CHW1	NB	84+00	91+50								750															
3C	IR-77	CHW2	NB	85+00	91+50								650															
3C	IR-77	ELW1	NB	85+00	97+50				0.24																			
3C	IR-77	DL1	NB	91+50	97+50										600													
3C	IR-77	ELW2	NB	99+00	104+55				0.11																			
3C	IR-77	DL2	NB	99+00	103+46										446													
3C	IR-77	CHW3	NB	103+46	106+70								324															
3C	IR-77	CHW4	NB	103+46	105+00								154															
3C	IR-77	DL3	NB	114+50	119+00										450													
3C	IR-77	CHW5	NB	114+50	120+12								562															
3C	IR-77	CHW6	NB	119+00	121+00								200															
3C	IR-77	CHW7	NB	119+00	121+00								200															
3C	IR-77	ELW3	NB	121+00	129+63				0.17																			
3C	IR-77	ELY1	NB	121+00	129+63					0.17																		
3C	IR-77	DL4	NB	123+00	129+63										663													
3C	IR-77	CHW8	NB	129+63	135+00								537															
3C	IR-77	CHW9	NB	129+63	135+00								537															
3C	IR-77	CHW10	NB	129+63	132+91								328															
3C	IR-77	CHW11	NB	129+63	133+90								427															
3C	IR-77	ELW4	NB	133+90	142+00				0.16																			
3C	IR-77	DL5	NB	135+00	142+00										700													
3C	IR-77	CHW12	NB	150+81	156+00								519															
3C	IR-77	ELW5	NB	150+81	164+00				0.25																			
3C	IR-77	CHW13	NB	154+00	156+00								200															
3C	IR-77	DL6	NB	156+00	164+00										800													
3C	IR-77	DL7	NB	183+50	188+14										464													
3C	IR-77	ELW6	NB	183+50	194+16				0.21																			
3C	IR-77	CHW14	NB	188+14	189+00								86															
3C	IR-77	CHW15	NB	188+14	191+50								336															
SUBTOTALS FROM TRAFFIC CONTROL																												
3C	RAMP A4								0.35	0.10			401															
3C	RAMP B1								0.19	0.10			513						9									
3C	RAMP B4								0.37	0.09			280															
3C	RAMP C3								0.31	0.08			432															
SUBTOTALS FOR PHASE 3C									2.36	0.54			7436		4123				9									
PRE-PHASE 1A SUBTOTALS FROM SHEET 36							0.42	3.86	3.29				1352						4			2	1552	2.46	3			
PHASE 1A SUBTOTALS FROM SHEET 36																							5702	20.62				
PHASE 1A SUBTOTALS FROM SHEET 37								2.57		0.22	3.28	4.25	600	7481		4235							2570	1.95	4			
PHASE 1A SUBTOTALS FROM SHEET 38						961			6.60	6.61	0.70	3.01	8982	2774	5916	428												
PHASE 1A SUBTOTALS FROM SHEET 39						151			6.60	6.61	0.26	2.97	8982	1207	5916						4							
PHASE 1B SUBTOTALS FROM SHEET 39						104			1.01	0.51	0.25	0.14		2103		925												
PHASE 1C SUBTOTALS FROM SHEET 39						276		0.36	0.24	0.21	1.06	0.78	2223	3456	432	1032		72		110	10							
PHASE 2 SUBTOTALS FROM SHEET 39								0.83			0.21	2.41		640		325												
PHASE 2 SUBTOTALS FROM SHEET 40						403		1.19			1.64	0.24		4721		2047					9							
PHASE 3A SUBTOTALS FROM SHEET 40						107			6.03	5.99			6285		2871													
STRIPING PERMANENT CONDITION PRIOR TO FINAL SURFACE							11.76		7.39	9.38			11004		8902		270											
STRIPING PERMANENT CONDITION ON FINAL SURFACE							11.76		7.39	9.38			11004		8902		270		32	480								
RESTRIPING PERMANENT CONDITION ON FINAL SURFACE							11.76		7.39	9.38			11004		8902		270		32	480								
TOTALS CARRIED TO GENERAL SUMMARY						2309	35.70	8.81	103.17		21.19		75157	22382	48835	8992	810	72	77	1070	23	2	9824	25.03	7			

Preliminary Plans - Not For Reference Only

MAINTENANCE OF TRAFFIC SUBSUMMARY

DESIGN AGENCY
HNTB

DESIGNER
JEM

REVIEWER
MTR 04/30/26

PROJECT ID
105743

SHEET P.41 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Unnamed Plan-5 - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:13 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MS001.dgn

PHASE	ROAD	DIR.	BEGIN STA.	END STA.	202 WEARING COURSE REMOVED (SY)	254 PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5") (SY)	407 NON-TRACKING TACK COAT (0.085 GAL/SY) (GAL)	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN (T=1.25")	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN (T=1.5")	614 INCREASED BARRIER DELINEATION (FT)	614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS (UNIDIRECTIONAL) (EACH)	614 WORK ZONE IMPACT ATTENUATOR, MISC.:48" WIDE HAZARD (UNIDIRECTIONAL) (EACH)	614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC (CY)	614 BARRIER REFLECTOR, TYPE 1, 1 WAY (EACH)	614 BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL (EACH)	614 BARRIER REFLECTOR, TYPE 2, 1 WAY (EACH)	614 OBJECT MARKER, ONE WAY (EACH)	614 OBJECT MARKER, TWO WAY (EACH)	614 WORK ZONE GORE MARKING, CLASS II, 740.06, TYPE I (FT)	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A (SY)	622 PORTABLE BARRIER, 50", AS PER PLAN (FT)	622 PORTABLE BARRIER, 50", AS PER PLAN B (FT)	622 PORTABLE BARRIER, UNANCHORED (FT)	622 PORTABLE BARRIER, ANCHORED (FT)	630 SIGN, TEMPORARY OVERLAY (SF)
WORK ZONE PORTABLE BARRIER / BARRIER DELINEATION / IMPACT ATTENUATORS																										
PRE-PHASE 1	IR-77	NB	48+00	55+00							1			15			15						700			
PRE-PHASE 1	IR-77	SB	50+00	65+00							1			31			31						1500			
PRE-PHASE 1	IR-77	SB	74+00	85+00								1		23			23						1100			
PRE-PHASE 1	RAMP A3	SB	80+50	85+00										10			10						450			
PRE-PHASE 1	IR-77	SB	85+50	110+66										52			52						2520			
PRE-PHASE 1	RAMP A3	SB	85+00	88+78										9			9						380			
PRE-PHASE 1	RAMP B2	SB	108+00	110+66							2			7			7						270			
PRE-PHASE 1	IR-77	SB	97+50	108+00										22			22						1050			
PRE-PHASE 1	IR-77	SB	108+00	121+00										27			27						1300			
PRE-PHASE 1	RAMP B3	SB	117+90	121+00										8			8						310			
PRE-PHASE 1	RAMP B3	SB	118+00	121+00								1		7			7						300			
PRE-PHASE 1	IR-77	SB	119+50	150+00							1			62			62						3050			
PRE-PHASE 1	IR-77	SB	117+90	121+00										8			8						310			
PRE-PHASE 1	IR-77	SB	156+00	196+00							1			81			81						4000			
PRE-PHASE 1	RAMP D2	SB	178+50	192+00										28			28						1350			
PRE-PHASE 1	IR-77	SB	192+00	204+50							1			26			26						1250			
PRE-PHASE 1	IR-77	NB	85+00	100+00							1			31			31						1500			
PRE-PHASE 1	IR-77	NB	76+00	89+00										27			27						1300			
PRE-PHASE 1	IR-77	NB	106+50	119+00							1			26			26						1250			
PRE-PHASE 1	RAMP B4	NB	114+30	119+00							1			11			11						470			
PRE-PHASE 1	IR-77	NB	132+00	147+50							1			32			32						1550			
PRE-PHASE 1	RAMP C3	NB	146+00	147+50							1			4			4						150			
PRE-PHASE 1	IR-77	NB	163+25	170+50										16			16							730		
PRE-PHASE 1	IR-77	NB	190+00	208+40								1		38			38						1840			
PRE-PHASE 1	RAMP D2	NB	190+00	192+80										7			7						280			
PRE-PHASE 1	IR-77	NB	217+80	221+00								1		8			8						320			
PRE-PHASE 1	RAMP J4	NB	217+80	220+50										7			7						270			
PRE-PHASE 1	GRANT	EB	18+00	21+25										8			8						330			
RUMBLE STRIP REMOVAL																										
PRE-PHASE 1	IR-77	NB	69+50	83+80		398	34	17																		
PRE-PHASE 1	IR-77	NB	83+80	107+80		667	57	28																		
PRE-PHASE 1	IR-77	NB	106+20	121+90		437	38	19																		
PRE-PHASE 1	IR-77	NB	121+90	130+50		239	21	10																		
PRE-PHASE 1	IR-77	NB	131+45	152+55		587	50	25																		
PRE-PHASE 1	IR-77	NB	152+55	169+22		464	40	20																		
PRE-PHASE 1	IR-77	NB	170+50	174+94		124	11	6																		
PRE-PHASE 1	IR-77	NB	176+25	183+00		188	16	8																		
PRE-PHASE 1	IR-77	NB	190+25	204+00		382	33	16																		
PRE-PHASE 1	IR-77	NB	204+23	215+45		312	27	13																		
PRE-PHASE 1	IR-77	NB	218+50	226+00		209	18	9																		
SIGN OVERLAYS																										
PRE-PHASE 1	GRANT	EB	18+75																						9	
PRE-PHASE 1	GRANT	WB	18+75																						9	
PRE-PHASE 1	IR-77	SB	121+60																						12	
PRE-PHASE 1	IR-77	SB	114+00																						12	
PRE-PHASE 1	IR-77	SB	86+75																						12	
PRE-PHASE 1	HARVARD	EB	14+25																						9	
PRE-PHASE 1	HARVARD	WB	14+25																						9	
PRE-PHASE 1	IR-77	SB	171+90																						12	
PRE-PHASE 1	IR-77	SB	152+50																						12	
PRE-PHASE 1	IR-77	SB	132+90																						12	
PRE-PHASE 1	IR-77	SB	121+60																						12	
PRE-PHASE 1	GRANT	EB	21+00																						9	
PRE-PHASE 1	GRANT	WB	21+00																						9	
PRE-PHASE 1	IR-77	NB	69+25																						12	
SUBTOTALS FOR PRE-PHASE 1 CARRIED TO SHEET 46						4007	345	171			12	4		631			631						29100	730	150	
WORK ZONE PORTABLE BARRIER / BARRIER DELINEATION / IMPACT ATTENUATORS																										
1A	IR-77	NB	69+50	74+50						1000											500					
1A	IR-77	NB	74+50	77+00											12		6					250				
1A	IR-77	NB	76+00								1															
1A	IR-77	NB	77+00	89+00											50		25				1200					
1A	IR-77	NB	89+00	96+00											30		15					700				
1A	IR-77	NB	96+00	106+00											42		21				1000					
SUBTOTALS FOR PHASE 1A CARRIED TO SHEET 46										1000	1				134		67				2700	950				

Preliminary Plans - Not For Reference Only

MODEL: Unnamed Plan-6 - Plan 7 (Sheet) USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MS001.dgn PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:14 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 04/30/26
PROJECT ID 105743
SHEET P.42 TOTAL P.1269

PHASE	ROAD	DIR.	BEGIN STA.	END STA.	202 WEARING COURSE REMOVED SY	254 PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5") SY	407 NON-TRACKING TACK COAT (0.085 GAL/SY) GAL	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN (T=1.25")	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN (T=1.5")	614 INCREASED BARRIER DELINEATION FT	614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS (UNIDIRECTIONAL) EACH	614 WORK ZONE IMPACT ATTENUATOR, MISC.:48" WIDE HAZARD (UNIDIRECTIONAL) EACH	614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC CY	614 BARRIER REFLECTOR, TYPE 1, 1 WAY EACH	614 BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL EACH	614 BARRIER REFLECTOR, TYPE 2, 1 WAY EACH	614 OBJECT MARKER, ONE WAY EACH	614 OBJECT MARKER, TWO WAY EACH	614 WORK ZONE GORE MARKING, CLASS II, 740.06, TYPE I FT	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A SY	622 PORTABLE BARRIER, 50", AS PER PLAN FT	622 PORTABLE BARRIER, 50", AS PER PLAN B FT	622 PORTABLE BARRIER, UNANCHORED FT	622 PORTABLE BARRIER, ANCHORED FT	630 SIGN, TEMPORARY OVERLAY SF
WORK ZONE PORTABLE BARRIER / BARRIER DELINEATION / IMPACT ATTENUATORS																										
1A	IR-77	NB	89+00	96+00										30			15				700				
1A	IR-77	NB	96+00	106+00										42			21			1000					
1A	IR-77	NB	106+00	130+00										98			49				2400				
1A	IR-77	NB	130+00	140+00										42			21			1000					
1A	IR-77	NB	140+00	143+00										14			7				300				
1A	IR-77	NB	143+00	169+00										106			53			2600					
1A	IR-77	NB	169+00	171+00										10			5				200				
1A	IR-77	NB	171+00	173+00										10			5			200					
1A	IR-77	NB	173+00	180+50										32			16				750				
1A	IR-77	NB	180+50	202+00										88			44			2150					
1A	IR-77	SB	202+00	226+00						4800		1								2400					
1A	IR-77	SB	72+50	85+60										28		28						1310			
1A	IR-77	SB	80+39	85+60								1		12		12						530			
1A	IR-77	SB	84+60	109+10						1960	1			11		11						2450			
1A	IR-77	NB	86+50	100+50						650	1			16		16						1400			
1A	IR-77	NB	106+64	122+50							1			33		33						1590			
1A	IR-77	NB	109+00	117+50							1			18		18						850			
1A	IR-77	SB	118+90	122+50								1		9		9						360			
1A	IR-77	SB	118+90	125+00							1			14		14						610			
1A	IR-77	SB	125+00	129+50							1			10		10						450			
1A	IR-77	SB	129+00	153+50								1		50		50						2450			
1A	IR-77	NB	138+00	145+00							1			15		15						700			
1A	IR-77	SB	151+00	153+50							1			6		6						250			
1A	IR-77	SB	152+83	176+00										48		48						2320			
1A	IR-77	SB	176+00	188+77						1277	1											1280			
1A	IR-77	SB	192+00	197+00							1			11		11						500			
1A	IR-77	NB	192+00	214+53							1			47		47						2260			
1A	IR-77	SB	204+00	214+53						1053	1											1060			
1A	IR-77	NB	194+00	205+00							1			23		23						1100			
1A	IR-77	NB	219+00	221+50							1			6		6						250			
1A	IR-77	SB	220+00	223+00						300		1										300			
1A	IR-77	SB	220+00	223+00						300												300			
1A	IR-77	SB	226+00								1														
1A	CROSSOVER	SB	69+00	76+00																		700			
1A	CROSSOVER	SB	219+00	226+00																		700			
RUMBLE STRIP REMOVAL																									
1A	CROSSOVER	NB/SB	220+00	220+83		24	3	1																	
1A	CROSSOVER	NB/SB	225+25	226+00		21	2	1																	
1A	CROSSOVER	NB/SB	225+25	226+00		21	2	1																	
EXISTING BARRIER/GUARDRAIL DELINEATORS																									
1A	IR-77	NB	72+80	76+50												9	9								
1A	IR-77	NB	157+00	163+50												14	14								
1A	IR-77	NB	170+50	179+00												18	18								
1A	IR-77	NB	186+75	189+00												6	6								
1A	IR-77	NB	211+25	216+00												11	11								
1A	IR-77	NB	74+50	220+83										588			294								
WORK ZONE GORE MARKINGS																									
1A	CROSSOVER	NB/SB	223+00	226+00															100						
SUBTOTALS FOR PHASE 1A CARRIED TO SHEET 46						66	7	3		10340	15	5		588	829	58	709	236	100		9350	4350	23720			
WORK ZONE PORTABLE BARRIER / BARRIER DELINEATION / IMPACT ATTENUATORS																									
1B	IR-77	SB	85+00	106+50										44			44						2150		
1B	IR-77	SB	122+00	130+00										17			17						800		
1B	IR-77	SB	151+00	159+00										17			17						800		
1B	IR-77	SB	176+00	192+00										33			33						1600		
1B	IR-77	SB	194+50	201+50						700	1												700		
1B	IR-77	SB	201+50	224+00								1		46			46						2250		
1B	IR-77	SB	220+00	224+00						400													400		
1B	GRANT AVE.	WB	16+60	21+00										10			10						460		
PHASE JOINT CROSSING DETAILS																									
1B	IR-77	SB	194+50	200+00			32						45												
WORK ZONE GORE MARKINGS																			100						
1B	CROSSOVER	NB/SB	224+00	228+00																					
SUBTOTALS FOR PHASE 1B CARRIED TO SHEET 46							32			1100	1	1	45	167			167		100				9160		

Preliminary Plans - For Reference Only

MODEL: Unnamed Plan-7 - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:14 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MS001.dgn

MAINTENANCE OF TRAFFIC SUBSUMMARY

DESIGN AGENCY
HNTB

DESIGNER JEM

REVIEWER MTR 04/30/26

PROJECT ID 105743

SHEET P.43 | TOTAL P.1269

PHASE	ROAD	DIR.	BEGIN STA.	END STA.	202 WEARING COURSE REMOVED (SY)	254 PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5") (SY)	407 NON-TRACKING TACK COAT (0.085 GAL/SY) (GAL)	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN (T=1.25")	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN (T=1.5")	614 INCREASED BARRIER DELINEATION (FT)	614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS (UNIDIRECTIONAL) (EACH)	614 WORK ZONE IMPACT ATTENUATOR, MISC.:48" WIDE HAZARD (UNIDIRECTIONAL) (EACH)	614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC (CY)	614 BARRIER REFLECTOR, TYPE 1, 1 WAY (EACH)	614 BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL (EACH)	614 BARRIER REFLECTOR, TYPE 2, 1 WAY (EACH)	614 OBJECT MARKER, ONE WAY (EACH)	614 OBJECT MARKER, TWO WAY (EACH)	614 WORK ZONE GORE MARKING, CLASS II, 740.06, TYPE I (FT)	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A (SY)	622 PORTABLE BARRIER, 50", AS PER PLAN (FT)	622 PORTABLE BARRIER, 50", AS PER PLAN B (FT)	622 PORTABLE BARRIER, UNANCHORED (FT)	622 PORTABLE BARRIER, ANCHORED (FT)	630 SIGN, TEMPORARY OVERLAY (SF)
WORK ZONE PORTABLE BARRIER / BARRIER DELINEATION / IMPACT ATTENUATORS																									
1C	IR-77	SB	74+50	103+00																		2850			
1C	IR-77	SB	74+50	79+00						450															
1C	IR-77	SB	79+00	98+00											39			39							
1C	IR-77	SB	98+00	103+00						500	1														
1C	IR-77	SB	149+50	162+45							1			27				27					1300		
1C	IR-77	SB	161+95	162+45										2				2					50		
1C	IR-77	SB	164+00	169+50										12				12					550		
PHASE JOINT CROSSING DETAILS																									
1C	IR-77	SB	101+00	107+00			34						45												
1C	IR-77	SB	162+00	169+50			43						56												
SUBTOTALS FOR PHASE 1C CARRIED TO SHEET 46							77			950	2		101	41	39		41	39			2850		1900		
SIGN OVERLAYS																									
PHASE 1	IR-77	SB	69+25																						12
PHASE 1	IR-77	SB	121+60																						12
PHASE 1	IR-77	SB	114+50																						12
PHASE 1	HARVARD	EB	14+25																						9
PHASE 1	HARVARD	WB	14+25																						9
PHASE 1	IR-77	SB	171+90																						12
PHASE 1	IR-77	SB	152+50																						12
PHASE 1	IR-77	SB	121+60																						12
PHASE 1	IR-77	SB	199+00																						12
PHASE 1	IR-77	SB	171+90																						12
PHASE 1	IR-77	SB	152+50																						12
PHASE 1	BROADWAY	EB	16+10																						9
PHASE 1	BROADWAY	WB	16+10																						9
PHASE 1	IR-77	SB	255+00																						45
PHASE 1	IR-77	SB	263+50																						45
PHASE 1	IR-77	SB	263+50																						30
PHASE 1	IR-77	SB	276+00																						16
PHASE 1	IR-77	SB	279+75																						16
PHASE 1	IR-77	SB	286+00																						16
PHASE 1	IR-77	SB	278+00																						5
PHASE 1	IR-77	SB	280+12																						5
PHASE 1	IR-77	NB	141+00																						16
PHASE 1	IR-77	NB	177+10																						16
PHASE 1	IR-77	NB	196+75																						16
PHASE 1	IR-77	NB	212+60																						10
PHASE 1	IR-77	NB	212+60																						10
PHASE 1	IR-77	NB	212+60																						10
PHASE 1	IR-77	NB	212+60																						16
SUBTOTALS FOR PHASE 1 OVERLAYS CARRIED TO SHEET 46																									416
WORK ZONE PORTABLE BARRIER / BARRIER DELINEATION / IMPACT ATTENUATORS																									
2	IR-77	SB	69+50	74+50						1000												500			
2	IR-77	NB	68+00	74+50						1300	1											650			
2	IR-77	SB	101+00	131+50											124			62				3050			
2	IR-77	SB	131+50	138+50											30			15					700		
2	IR-77	SB	138+50	141+50											14			7							
2	IR-77	SB	141+50	147+50						1200															
2	IR-77	SB	138+50	147+50																		900			
2	IR-77	SB	147+50	155+00						1500															
2	IR-77	SB	155+00	160+00											22			11							
2	IR-77	SB	147+50	160+00																			1250		
2	IR-77	SB	160+00	169+50											40			20				950			
2	IR-77	SB	169+50	171+00											8			4					150		
2	IR-77	SB	171+00	174+50											16			8				350			
2	IR-77	SB	174+50	176+50											10			5					200		
2	IR-77	SB	176+50	226+00																		4950			
2	IR-77	SB	176+50	217+83											168			84							
2	IR-77	SB	217+83	226+00						1634															
2	IR-77	NB	125+50	128+50							1			7			7							300	
2	IR-77	NB	179+00	182+00							1			7			7							300	
3A	IR-77	NB	70+00	74+50						450	1														
SUBTOTALS FOR PHASE 2 CARRIED TO SHEET 46										7084	4			14	432		14	216				11350	2300	600	

Preliminary Plans - For Reference Only

MODEL: Unnamed Plan-8 - Plan 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:15 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MS001.dgn

MAINTENANCE OF TRAFFIC SUBSUMMARY

DESIGN AGENCY
HNTB

DESIGNER
JEM

REVIEWER
MTR 04/30/26

PROJECT ID
105743

SHEET P.44 TOTAL P.1269

PHASE	ROAD	DIR.	BEGIN STA.	END STA.	202 WEARING COURSE REMOVED (SY)	254 PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5") (SY)	407 NON-TRACKING TACK COAT (0.085 GAL/SY) (GAL)	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN (T=1.25")	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN (T=1.5")	614 INCREASED BARRIER DELINEATION (FT)	614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS (UNIDIRECTIONAL) (EACH)	614 WORK ZONE IMPACT ATTENUATOR, MISC.:48" WIDE HAZARD (UNIDIRECTIONAL) (EACH)	614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC (CY)	614 BARRIER REFLECTOR, TYPE 1, 1 WAY (EACH)	614 BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL (EACH)	614 BARRIER REFLECTOR, TYPE 2, 1 WAY (EACH)	614 OBJECT MARKER, ONE WAY (EACH)	614 OBJECT MARKER, TWO WAY (EACH)	614 WORK ZONE GORE MARKING, CLASS II, 740.06, TYPE I (FT)	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A (SY)	622 PORTABLE BARRIER, 50", AS PER PLAN (FT)	622 PORTABLE BARRIER, 50", AS PER PLAN B (FT)	622 PORTABLE BARRIER, UNANCHORED (FT)	622 PORTABLE BARRIER, ANCHORED (FT)	630 SIGN, TEMPORARY OVERLAY (SF)			
WORK ZONE PORTABLE BARRIER / BARRIER DELINEATION / IMPACT ATTENUATORS																														
3A	IR-77	NB	74+50	84+00										20			20													
3A	IR-77	NB	79+00	84+00																				500						
3A	IR-77	NB	91+75	98+00						625	1																			
3A	IR-77	NB	98+00	104+25										14			14													
3A	IR-77	NB	91+75	104+25																				1250						
3A	IR-77	NB	105+50	159+50								1		109			109							5400						
3A	RAMP B1	NB	105+50	107+30						180														180						
3A	IR-77	NB	164+00	169+00						500	1																			
3A	IR-77	NB	169+00	186+00										35			35													
3A	IR-77	NB	164+00	186+00																				2200						
3A	IR-77	NB	189+15	200+00								1		23			23							1090						
3A	RAMP D1	NB	189+15	191+00						185														190						
3A	IR-77	NB	202+25	210+32								1		18			18							810						
3A	RAMP E1	NB	202+25	205+50						325														330						
3A	IR-77	NB	220+00	226+00						1200																600				
3A	IR-77	NB	74+50	220+83										294			588													
PHASE JOINT CROSSING DETAILS																														
3A	IR-77	NB	84+00	95+00	1834		63						123																	
3A	IR-77	NB	100+50	103+75			19						25																	
3A	IR-77	NB	184+00	189+50			32						41																	
3A	IR-77	NB	103+75	106+50			16						21																	
3A	IR-77	NB	159+00	169+00			57						204																	
3A	IR-77	NB	197+00	202+50			32						143																	
WORK ZONE GORE MARKINGS																														
3A	CROSSOVER	NB/SB	69+11	74+50																300										
SUBTOTALS FOR PHASE 3A CARRIED TO SHEET 46					1834		219			3015	2	3	557	513			807			300		600		11950					
WORK ZONE PORTABLE BARRIER / BARRIER DELINEATION / IMPACT ATTENUATORS																														
3B	IR-77	NB	84+00	98+00										29			29							1400						
3B	IR-77	NB	100+50	106+25										13			13							580						
3B	IR-77	NB	159+50	169+00										20			20							950						
3B	IR-77	NB	184+50	189+15										11			11							470						
3B	IR-77	NB	197+00	202+75										13			13							580						
3B	GRANT AVE.	WB	18+57	22+52							1			9			9							400						
SUBTOTALS FOR PHASE 3B CARRIED TO SHEET 46											1			95			95							4380						
WORK ZONE PORTABLE BARRIER / BARRIER DELINEATION / IMPACT ATTENUATORS																														
3C	IR-77	NB	85+00	97+50						1250	1													1250						
3C	IR-77	NB	99+00	101+00										5			5							200						
3C	IR-77	NB	104+36	106+25								1		5			5							190						
3C	IR-77	NB	104+36	106+70						234														240						
3C	IR-77	NB	131+00	132+91						191		1												200						
3C	IR-77	NB	131+00	142+00						1100														1100						
3C	IR-77	NB	158+00	164+00						600	1													600						
3C	IR-77	NB	189+00	191+50						250		1												250						
3C	IR-77	NB	189+00	191+50										6			6							250						
SUBTOTALS FOR PHASE 3C CARRIED TO SHEET 46										3625	2	3		16			16							4280						
SIGN OVERLAYS																														
PHASE 3	GRANT	EB	21+00																										9	
PHASE 3	GRANT	WB	21+00																										9	
PHASE 3	HARVARD	EB	11+75																										9	
PHASE 3	HARVARD	WB	11+75																										9	
PHASE 3	IR-77	NB	110+00																										12	
PHASE 3	IR-77	NB	117+00																										12	
PHASE 3	IR-77	NB	128+00																										12	
PHASE 3	FLEET	EB	03+10																										9	
PHASE 3	FLEET	WB	03+10																										9	
PHASE 3	IR-77	NB	128+00																										12	
PHASE 3	IR-77	NB	161+50																										12	
PHASE 3	IR-77	NB	188+50																										12	
PHASE 3	IR-77	NB	161+50																										12	
PHASE 3	IR-77	NB	182+00																										12	
PHASE 3	IR-77	NB	196+00																										12	
SUBTOTALS FOR PHASE 3 OVERLAYS CARRIED TO SHEET 46																													162	

Preliminary Plans - For Reference Only

MODEL: Unnamed Plan-9 - Plan 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:16 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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OHDOT_Pen.tbl

DESIGN AGENCY
HNTB

DESIGNER
JEM

REVIEWER
MTR 04/30/26

PROJECT ID
105743

SHEET P.45 TOTAL P.1269

PHASE	ROAD	DIR.	BEGIN STA.	END STA.	202 WEARING COURSE REMOVED (SY)	254 PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5") (SY)	407 NON-TRACKING TACK COAT (0.085 GAL/SY) (GAL)	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN (T=1.25")	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN (T=1.5")	614 INCREASED BARRIER DELINEATION (FT)	614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS (UNIDIRECTIONAL) (EACH)	614 WORK ZONE IMPACT ATTENUATOR, MISC..48" WIDE HAZARD (UNIDIRECTIONAL) (EACH)	614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC (CY)	614 BARRIER REFLECTOR, TYPE 1, 1 WAY (EACH)	614 BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL (EACH)	614 BARRIER REFLECTOR, TYPE 2, 1 WAY (EACH)	614 OBJECT MARKER, ONE WAY (EACH)	614 OBJECT MARKER, TWO WAY (EACH)	614 WORK ZONE GORE MARKING, CLASS II, 740.06, TYPE I (FT)	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A (SY)	622 PORTABLE BARRIER, 50", AS PER PLAN (FT)	622 PORTABLE BARRIER, 50", AS PER PLAN B (FT)	622 PORTABLE BARRIER, UNANCHORED (FT)	622 PORTABLE BARRIER, ANCHORED (FT)	630 SIGN, TEMPORARY OVERLAY (SF)
PAVEMENT FOR MOT																										
	IR-77	NB	86+50	93+00																418					
	IR-77	NB	219+27	220+44																53					
	IR-77	NB/SB	74+90																	67					
	IR-77	NB/SB	110+00																	112					
	IR-77	SB	75+50	78+50																134					
	IR-77	SB	84+50	87+00																223					
	IR-77	SB	87+00	99+00																534					
	IR-77	SB	99+00	106+50																834					
	IR-77	SB	109+00	110+00																112					
	IR-77	SB	110+75	115+50																264					
	IR-77	SB	120+00	120+25																28					
	IR-77	SB	120+25	126+00																256					
	IR-77	SB	126+00	129+00																334					
	IR-77	SB	129+00	134+00																278					
	RUFFINI																			27					
	IR-77	SB	194+00																	23					
	IR-77	SB	196+00	199+50																195					
SUBTOTALS FOR PAVEMENT FOR MOT																				3892					
CROSSOVER INSTALLATION																									
SOUTH CROSSOVER			69+50	74+50		556	48						50												
NORTH CROSSOVER			220+83	225+40		889	76						80												
SUBTOTALS FOR CROSSOVER INSTALLATION						1445	124						130												
SACRIFICIAL SURFACE COURSE																									
PRE-PHASE	IR-77	SB	74+50	204+03		80597	6851	2799																	
PRE-PHASE	IR-77	SB	204+03	220+83		5040	429	175																	
PRE-PHASE	IR-77	SB	84+00	108+65		3053	260	106																	
PRE-PHASE	IR-77	SB	119+58	127+07		1118	96	39																	
PRE-PHASE	IR-77	SB	150+65	157+34		867	74	31																	
PRE-PHASE	IR-77	SB	165+60	192+13		2798	238	98																	
PRE-PHASE	IR-77	SB	201+50	213+75		1606	137	56																	
PRE-PHASE	IR-77	NB	74+50	220+83		28860	2454		1203																
SUBTOTALS FOR SACRIFICIAL SURFACE COURSE INSTALLATION						123939	10539	3304	1203																
PRE-PHASE 1 SUBTOTALS FROM SHEET 42						4007	345	171			12	4		631			631					29100	730	150	
PHASE 1A SUBTOTALS FROM SHEET 42										1000	1				134			67			2700	950			
PHASE 1A SUBTOTALS FROM SHEET 43						66	7	3		10340	15	5		588	829	58	709	236	100		9350	4350	23720		
PHASE 1B SUBTOTALS FROM SHEET 43							32			1100	1	1	45	167			167		100				9160		
PHASE 1C SUBTOTALS FROM SHEET 44							77			950	2		101	41	39		41	39			2850		1900		
PHASE 1 OVERLAYS SUBTOTALS FROM SHEET 44																									416
PHASE 2 SUBTOTALS FROM SHEET 44										7084	4			14	432		14	216			11350	2300	600		
PHASE 3A SUBTOTALS FROM SHEET 45					1834		219			3015	2	3	557	513			807		300		600		11950		
PHASE 3B SUBTOTALS FROM SHEET 45											1			95			95						4380		
PHASE 3C SUBTOTALS FROM SHEET 45										3625	2	3		16			16						4280		
PHASE 3 OVERLAYS SUBTOTALS FROM SHEET 45																									162
TOTALS CARRIED TO GENERAL SUMMARY					1834	129457	11343	3478	1203	27114	40	16	833	2065	1434	58	2480	558	500	3892	26850	7600	85090	730	728

Preliminary Plans - For Reference Only

MAINTENANCE OF TRAFFIC SUBSUMMARY

CUY-77-11.41 - PART 1

MODEL: Unnamed Plan-10 - Plan 11 (Sheet) PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:16 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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DESIGN AGENCY: HNTB

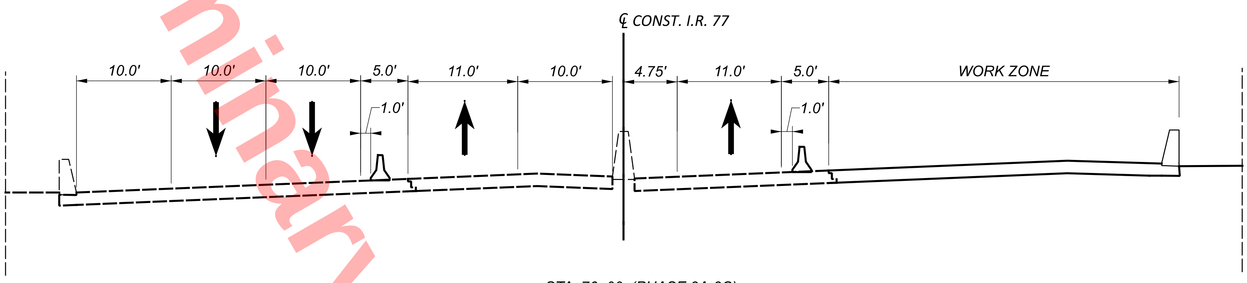
DESIGNER: JEM

REVIEWER: MTR 04/30/26

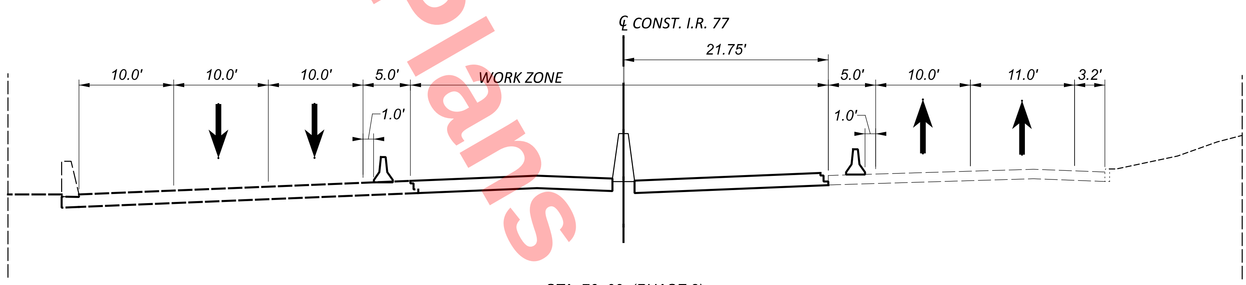
PROJECT ID: 105743

MODEL: Sheet1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:25 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MY001.dgn

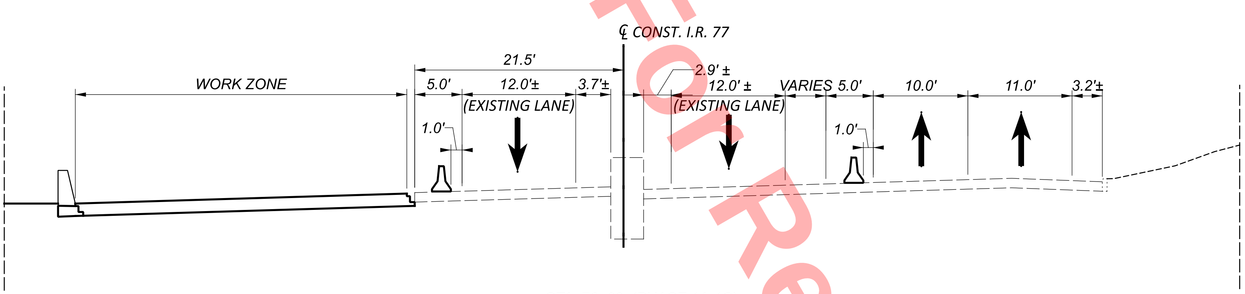
Preliminary Plans - For Reference Only



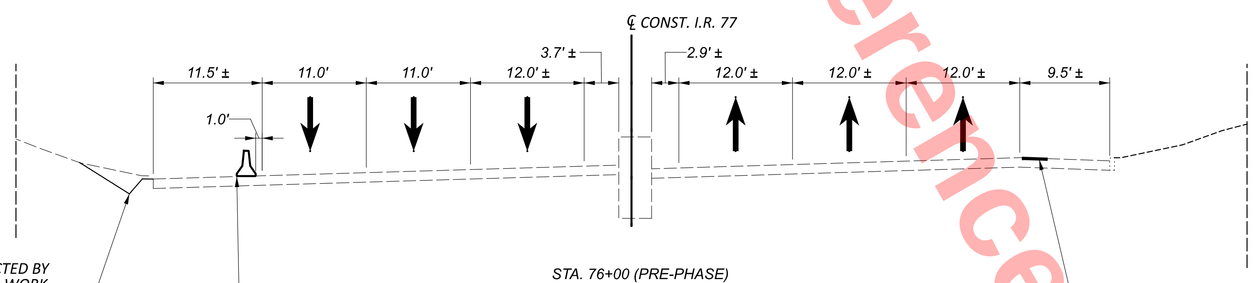
STA. 76+00 (PHASE 3A-3C)



STA. 76+00 (PHASE 2)



STA. 76+00 (PHASE 1A-1C)

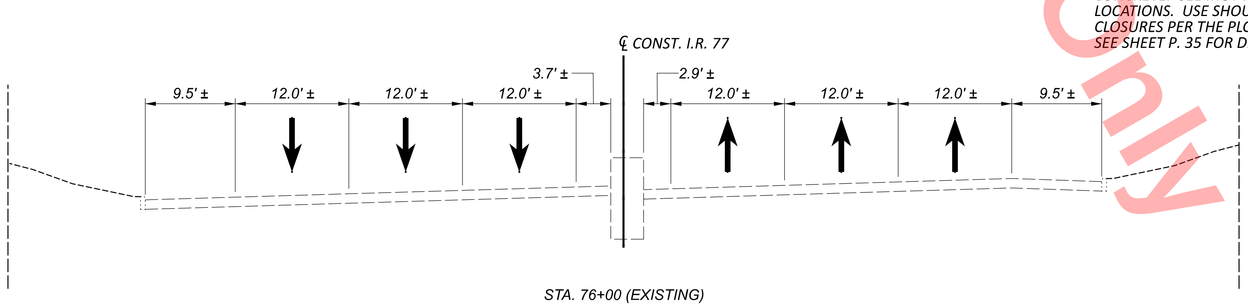


STA. 76+00 (PRE-PHASE)

EX. CURB IMPACTED BY STORM SEWER WORK. PLACE TEMP SWALE PER MOT CROSS SECTIONS. SEE MOT PLANS FOR LOCATIONS.

NARROW THE OUTSIDE AND MIDDLE LANES AND CLOSE THE SHOULDER PER MT-95.45. SEE MOT PLANS FOR LOCATIONS AND DETAILS.

REMOVE EX. RUMBLE STRIP. MILL 2.5' WIDE BY 1.5" DEEP CENTERED ON THE RUMBLE STRIP. FILL THE CAVITY WITH ASPHALT CONCRETE. SEE MOT PLANS FOR LOCATIONS. USE SHOULDER AND LANE CLOSURES PER THE PLCS TO COMPLETE. SEE SHEET P. 35 FOR DETAILS.



STA. 76+00 (EXISTING)

SHEET	TOTAL
P. 47	P. 1269

PROJECT ID: 105743

REVIEWER: MTR 05/01/26

DESIGNER: MTD

DESIGN AGENCY: HNTB

MOT TYPICAL SECTIONS
STA. 76+00.00

MODEL: Sheet2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:26 AM USER: kperkins
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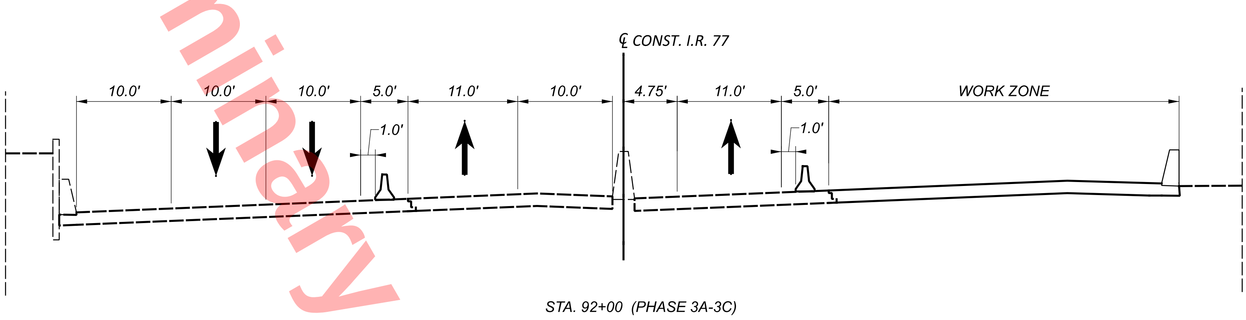
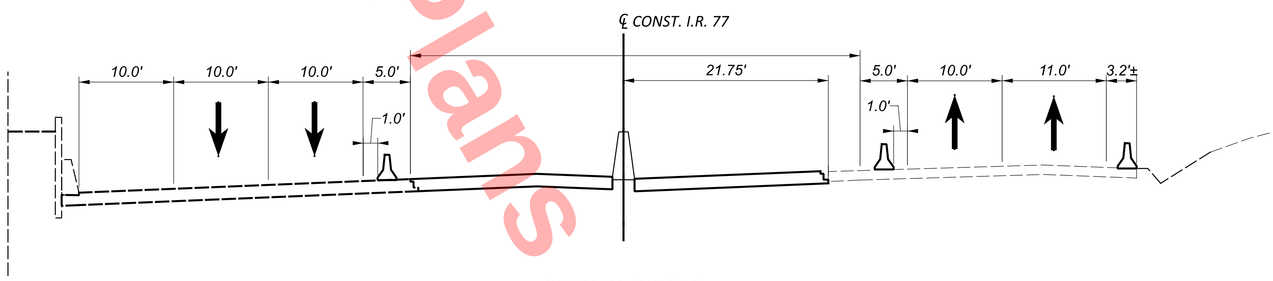
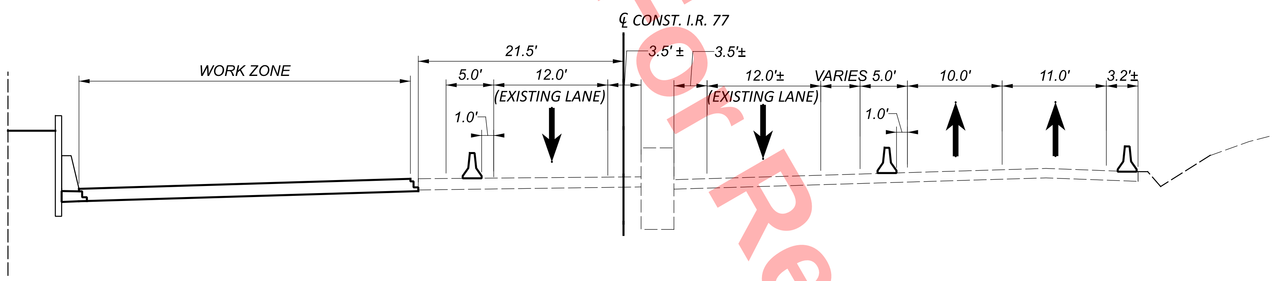
Preliminary Plans - For Reference Only



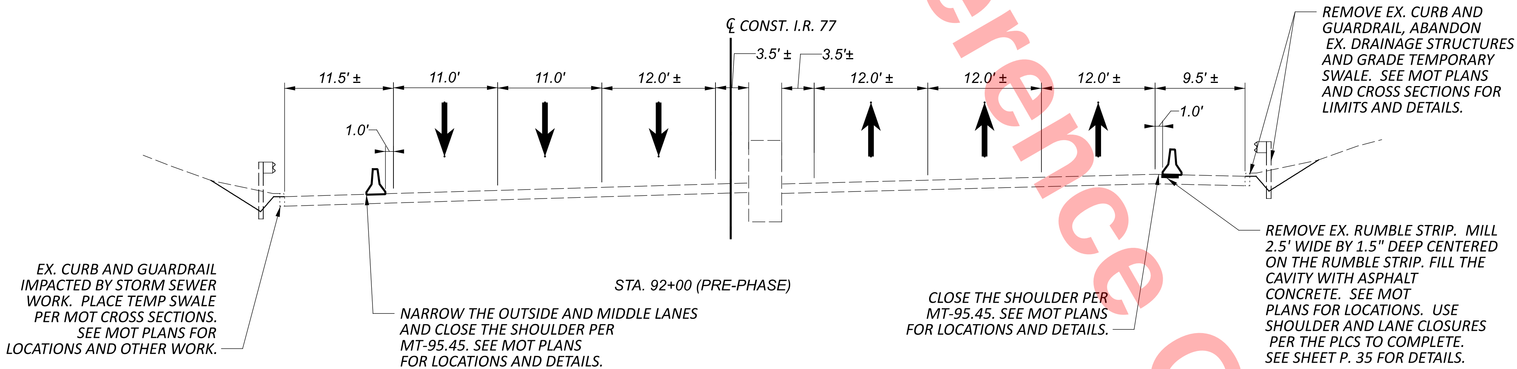
STA. 92+00 (PHASE 3A-3C)



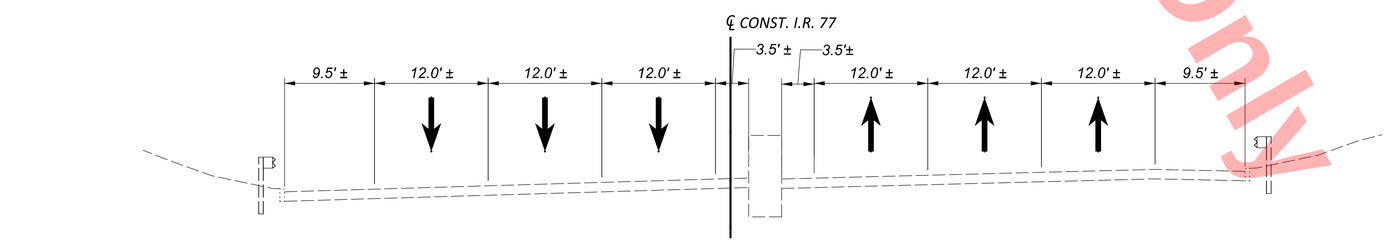
STA. 92+00 (PHASE 2)



STA. 92+00 (PHASE 1A-1C)



STA. 92+00 (PRE-PHASE)



STA. 92+00 (EXISTING)

SHEET	TOTAL
P.48	P.1269

PROJECT ID: 105743

REVIEWER: MTR 05/01/26

DESIGNER: MTD

DESIGN AGENCY: HNTB

MOT TYPICAL SECTIONS
STA. 92+00.00

MODEL: Sheet3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:26 AM USER: kperkins
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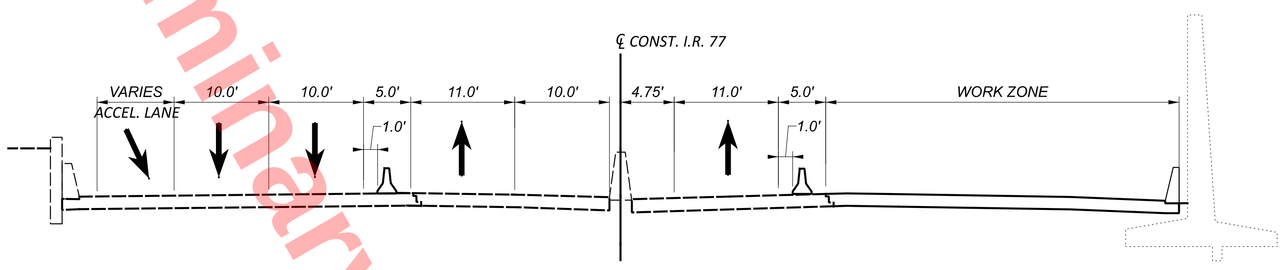
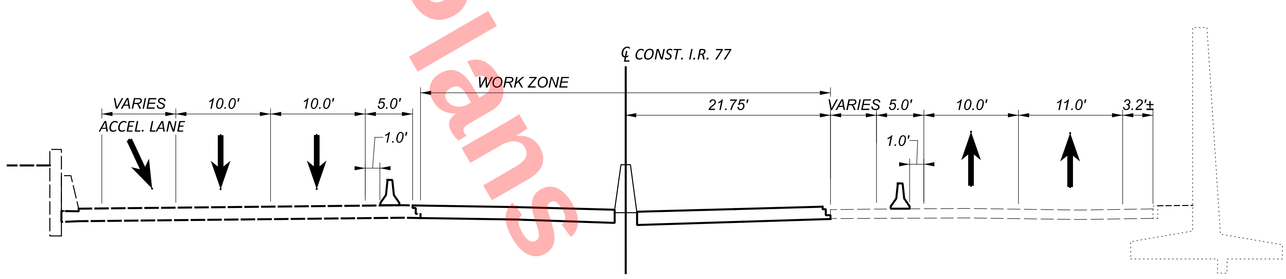
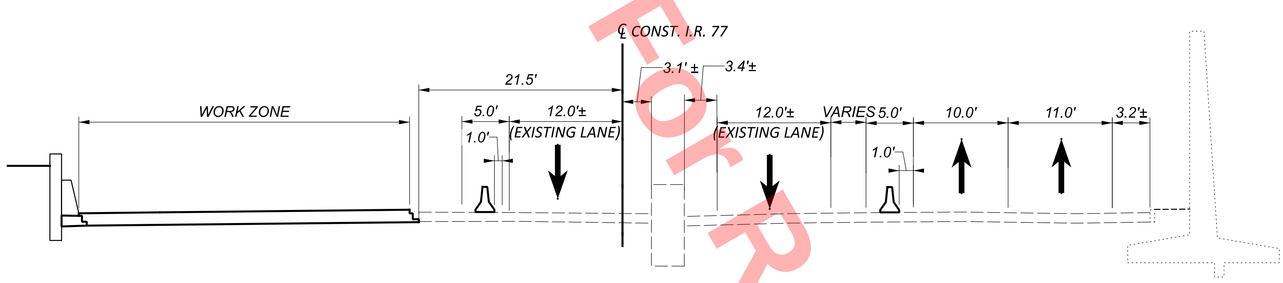
Preliminary Plans - For Reference Only



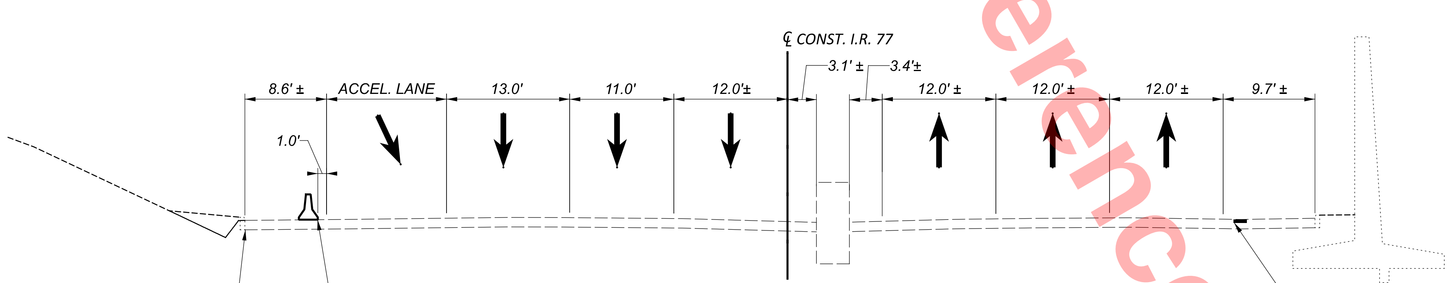
STA. 101+00 (PHASE 3A-3C)



STA. 101+00 (PHASE 2)



STA. 101+00 (PHASE 1A-1C)

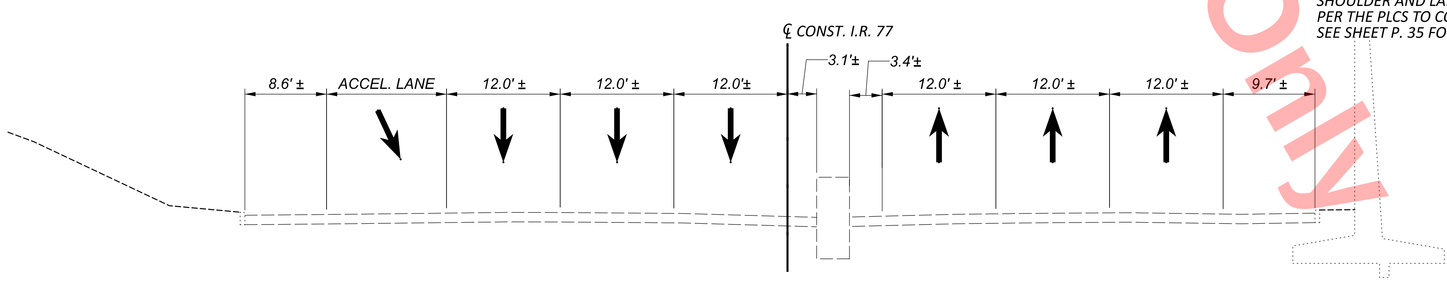


EX. CURB IMPACTED BY STORM SEWER WORK. PLACE TEMP SWALE PER MOT CROSS SECTIONS. SEE MOT PLANS FOR LOCATIONS.

NARROW THE MIDDLE LANE AND CLOSE THE SHOULDER PER MT-95.45. SEE MOT PLANS FOR LOCATIONS AND DETAILS.

STA. 101+00 (PRE-PHASE)

REMOVE EX. RUMBLE STRIP. MILL 2.5' WIDE BY 1.5" DEEP CENTERED ON THE RUMBLE STRIP. FILL THE CAVITY WITH ASPHALT CONCRETE. SEE MOT PLANS FOR LOCATIONS. USE SHOULDER AND LANE CLOSURES PER THE PLCS TO COMPLETE. SEE SHEET P. 35 FOR DETAILS.



STA. 101+00 (EXISTING)

SHEET	TOTAL
P. 49	P. 1269

PROJECT ID: 105743

REVIEWER: MTR 05/01/26

DESIGNER: MTD

DESIGN AGENCY: HNTB

MOT TYPICAL SECTIONS
STA. 101+00.00

MODEL: Sheet4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:27 AM USER: kperkins
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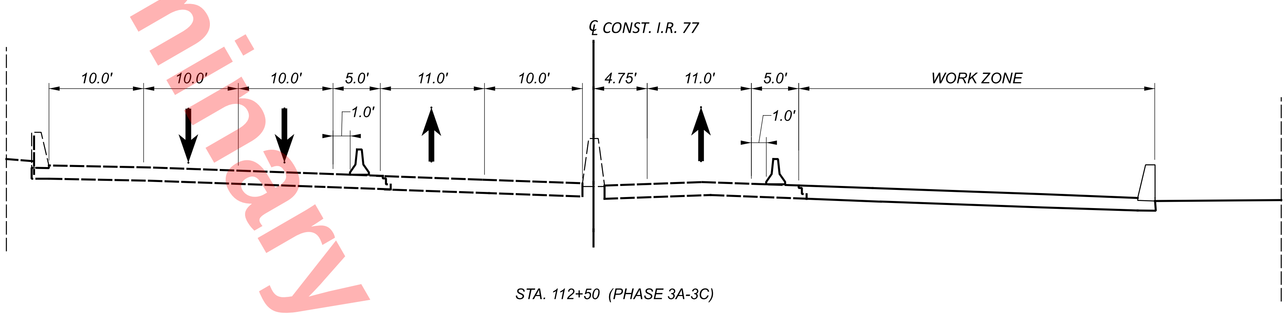
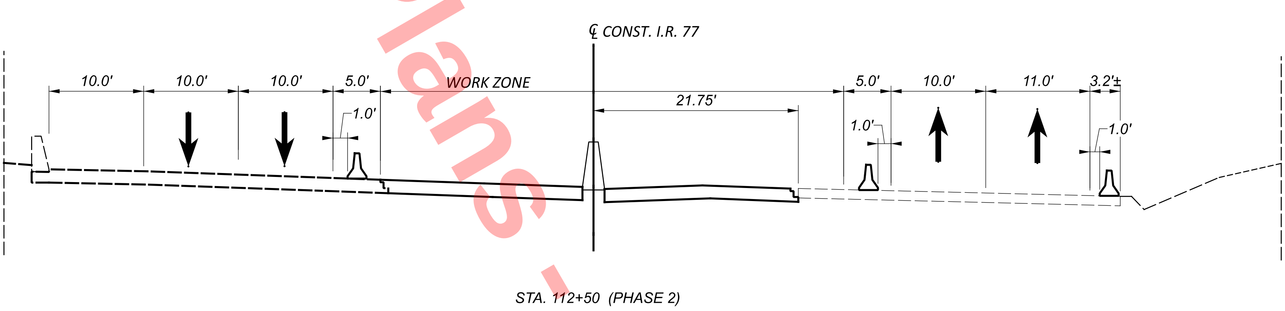
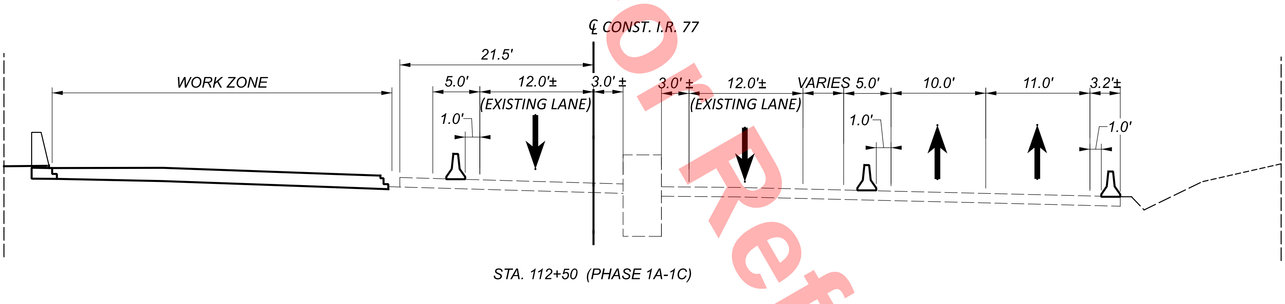
Preliminary Plans - For Reference Only



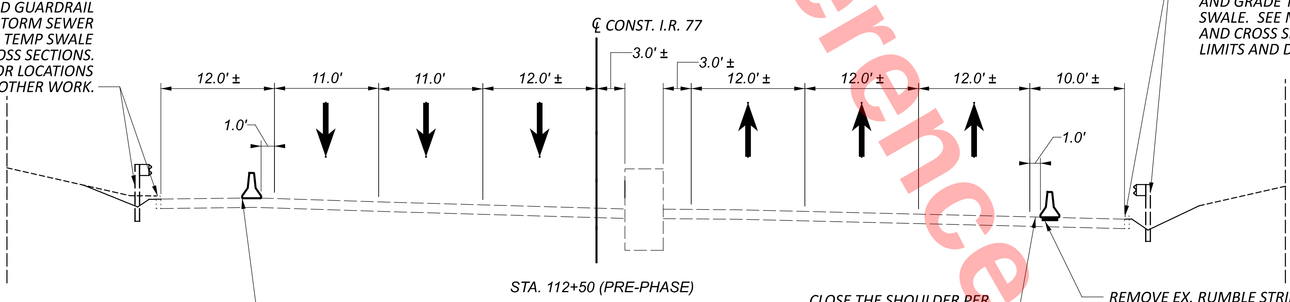
STA. 112+50 (PHASE 3A-3C)



STA. 112+50 (PHASE 2)



STA. 112+50 (PHASE 1A-1C)

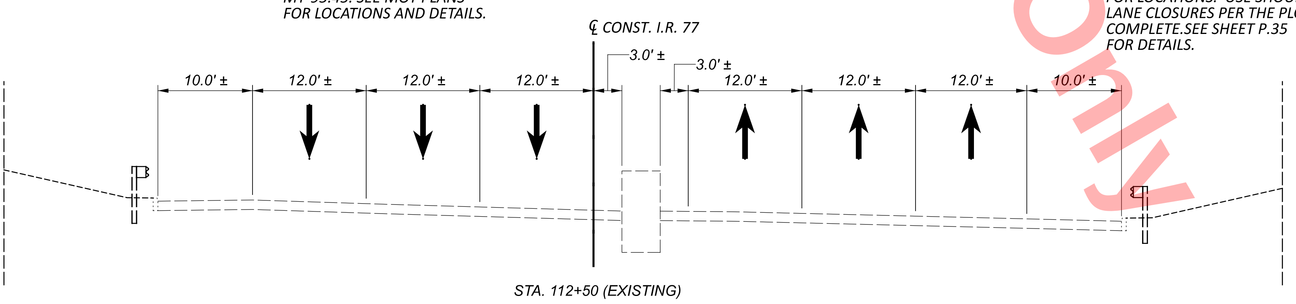


STA. 112+50 (PRE-PHASE)

NARROW THE OUTSIDE AND MIDDLE LANES AND CLOSE THE SHOULDER PER MT-95.45. SEE MOT PLANS FOR LOCATIONS AND DETAILS.

CLOSE THE SHOULDER PER MT-95.45. SEE MOT PLANS FOR LOCATIONS AND DETAILS.

REMOVE EX. RUMBLE STRIP. MILL 2.5' WIDE BY 1.5" DEEP CENTERED ON THE RUMBLE STRIP. FILL THE CAVITY WITH ASPHALT CONCRETE. SEE MOT PLANS FOR LOCATIONS. USE SHOULDER AND LANE CLOSURES PER THE PLCS TO COMPLETE.SEE SHEET P.35 FOR DETAILS.



STA. 112+50 (EXISTING)

SHEET	TOTAL
P.50	P.1269

PROJECT ID: 105743

REVIEWER: MTR 05/01/26

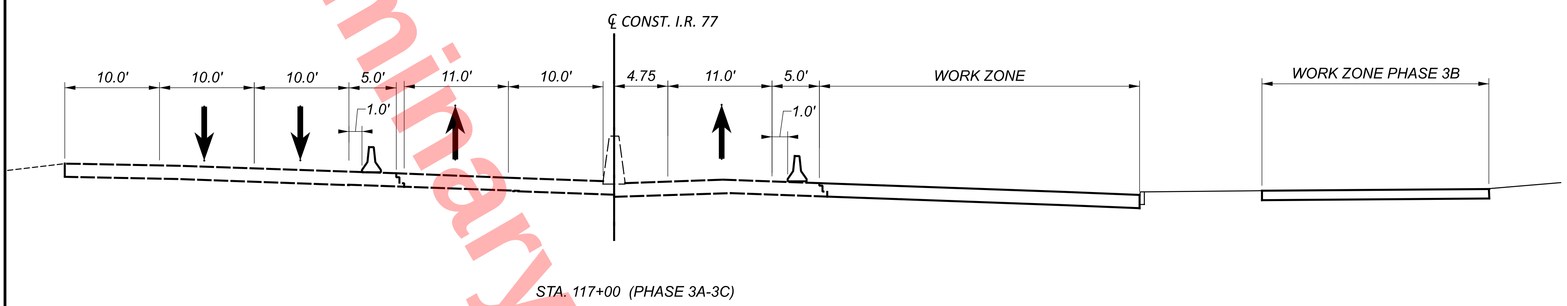
DESIGNER: MTD

DESIGN AGENCY: HNTB

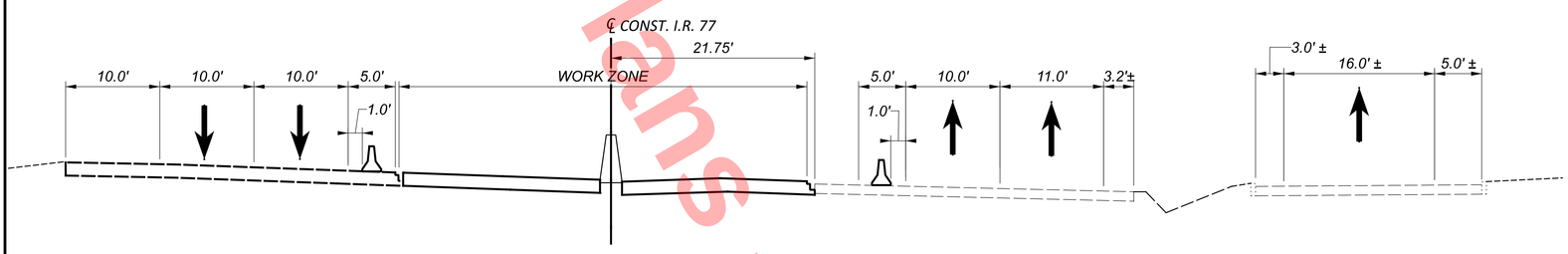
MOT TYPICAL SECTIONS
STA. 112+50.00

MODEL: Sheet5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:27 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MY001.dgn

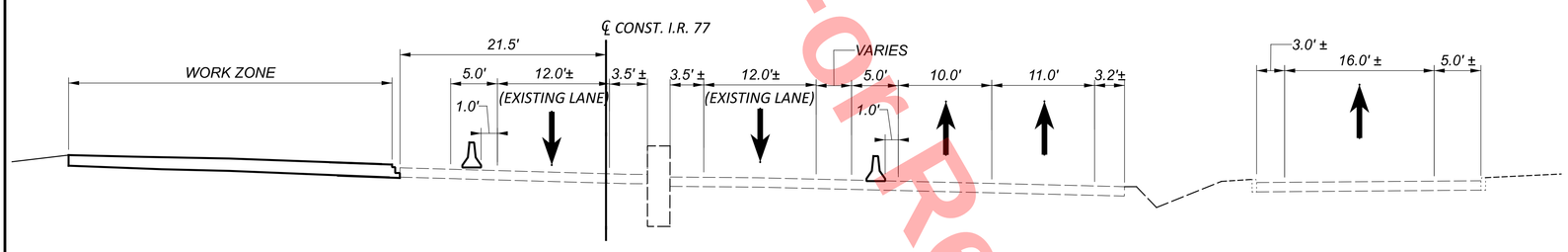
Preliminary Plans - For Reference Only



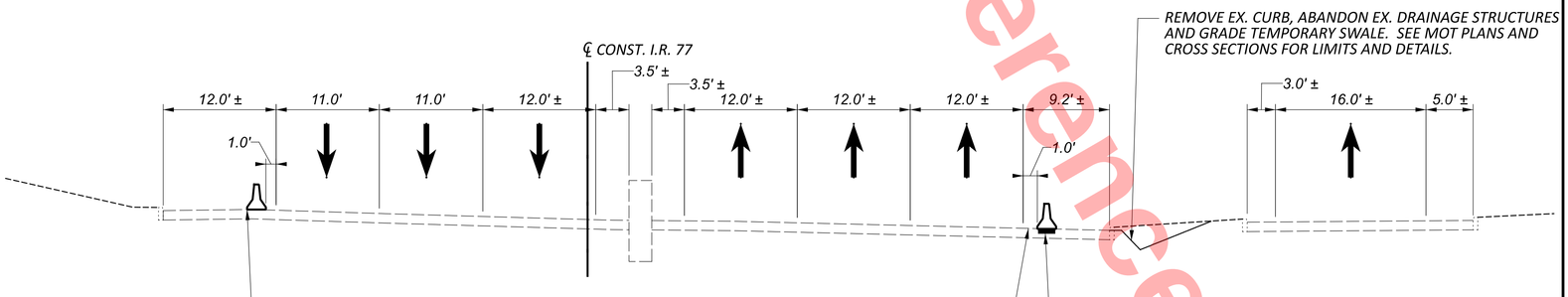
STA. 117+00 (PHASE 3A-3C)



STA. 117+00 (PHASE 2)



STA. 117+00 (PHASE 1A-1C)

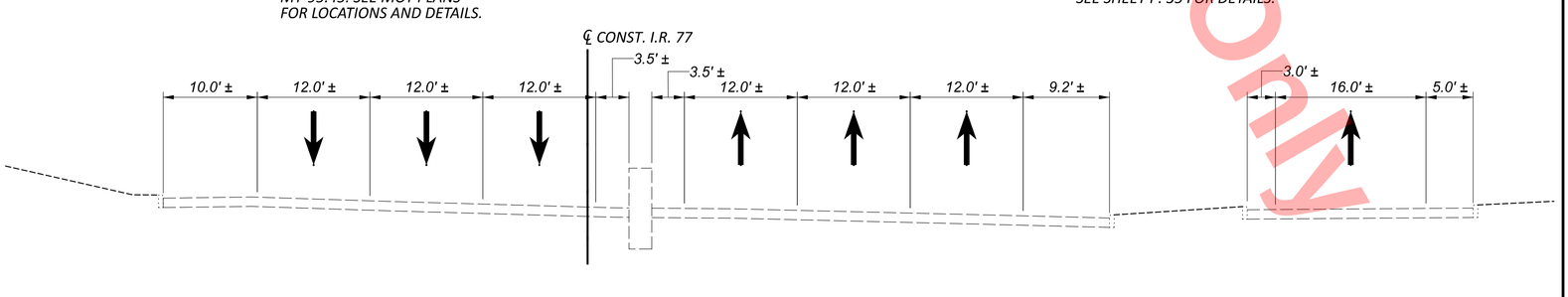


STA. 117+00 (PRE-PHASE)

NARROW THE OUTSIDE AND MIDDLE LANES AND CLOSE THE SHOULDER PER MT-95.45. SEE MOT PLANS FOR LOCATIONS AND DETAILS.

CLOSE THE SHOULDER PER MT-95.45. SEE MOT PLANS FOR LOCATIONS AND DETAILS.

REMOVE EX. RUMBLE STRIP. MILL 2.5' WIDE BY 1.5" DEEP CENTERED ON THE RUMBLE STRIP. FILL THE CAVITY WITH ASPHALT CONCRETE. SEE MOT PLANS FOR LOCATIONS. USE SHOULDER AND LANE CLOSURES PER THE PLCS TO COMPLETE. SEE SHEET P. 35 FOR DETAILS.



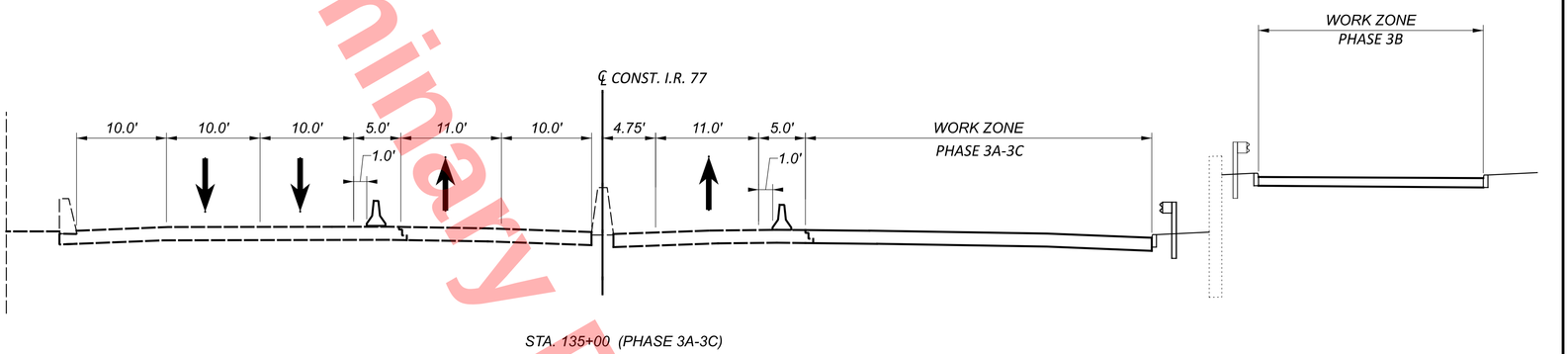
STA. 117+00 (EXISTING)

SHEET P.51	TOTAL P.1269	PROJECT ID 105743	REVIEWER MTR 05/01/26	DESIGNER MTD	DESIGN AGENCY HNTB

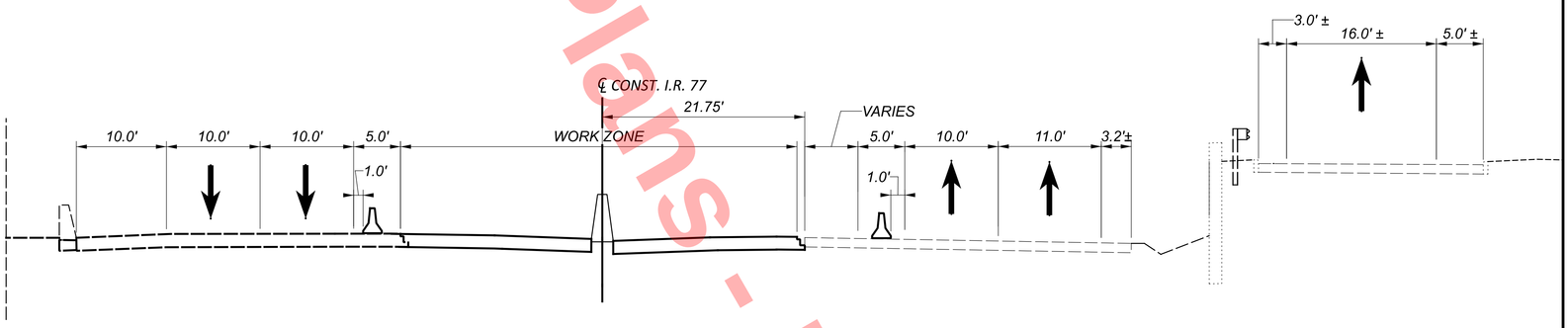
MOT TYPICAL SECTIONS
STA. 117+00.00

MODEL: Sheet6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:28 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MY001.dgn

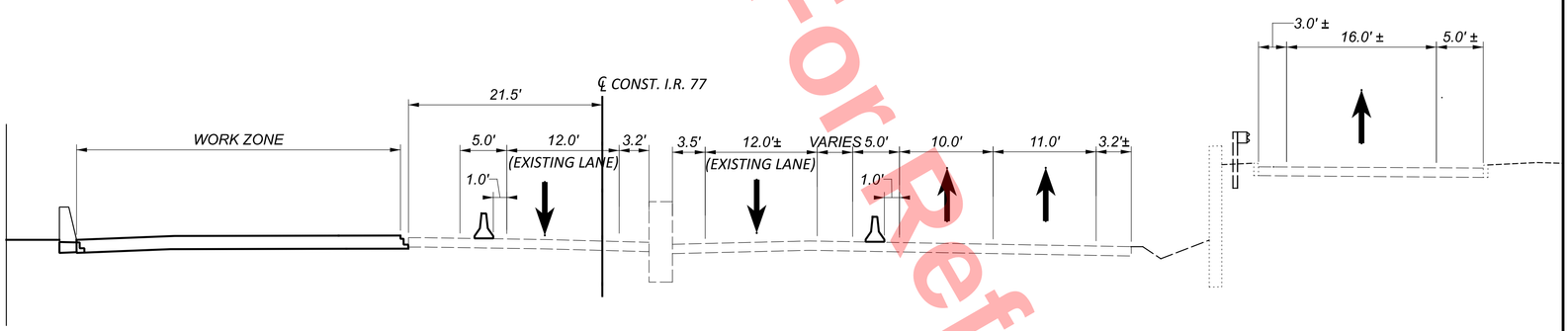
Preliminary Plans - For Reference Only



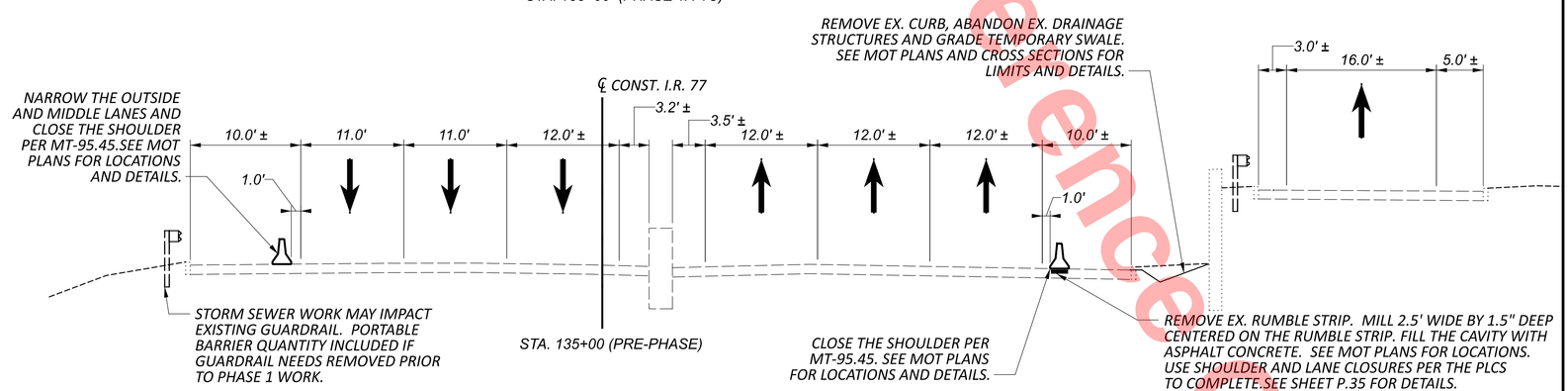
STA. 135+00 (PHASE 3A-3C)



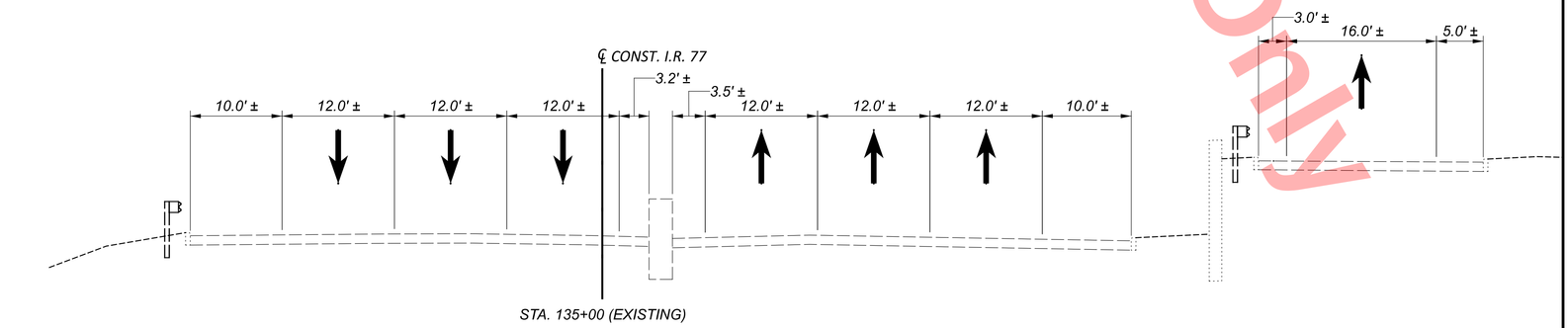
STA. 135+00 (PHASE 2)



STA. 135+00 (PHASE 1A-1C)



STA. 135+00 (PRE-PHASE)



STA. 135+00 (EXISTING)

SHEET	TOTAL
P.52	P.1269

PROJECT ID: 105743

REVIEWER: MTR 05/01/26

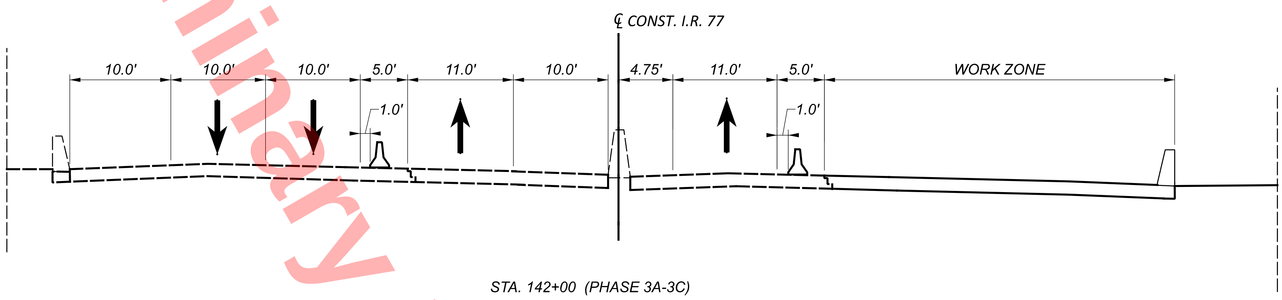
DESIGNER: MTD

DESIGN AGENCY: HNTB

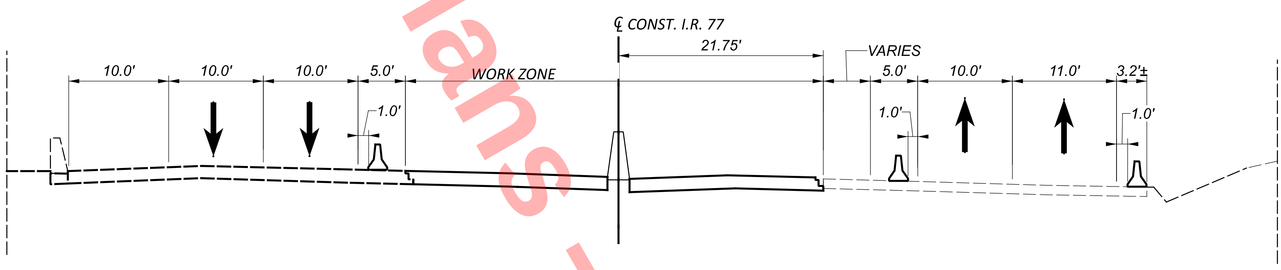
MOT TYPICAL SECTIONS
STA. 135+00.00

MODEL: Sheet7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:28 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MY001.dgn

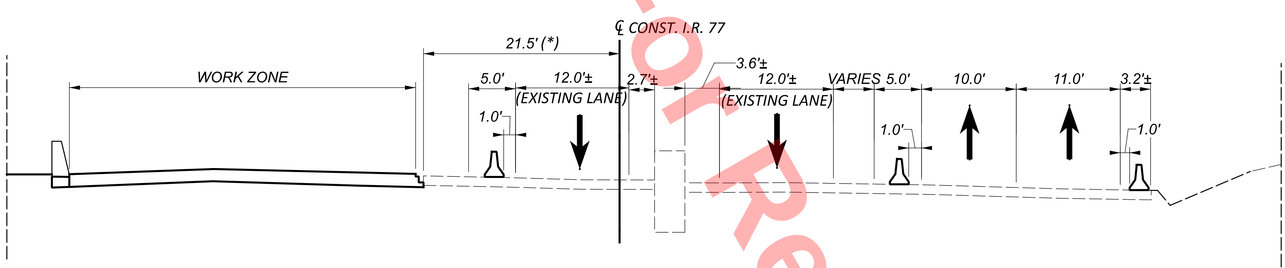
Preliminary Plans - For Reference Only



STA. 142+00 (PHASE 3A-3C)

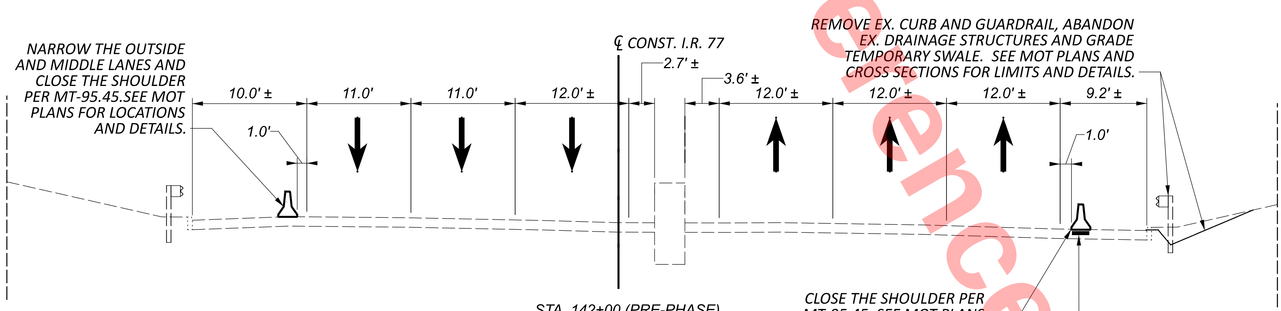


STA. 142+00 (PHASE 2)



STA. 142+00 (PHASE 1A-1C)

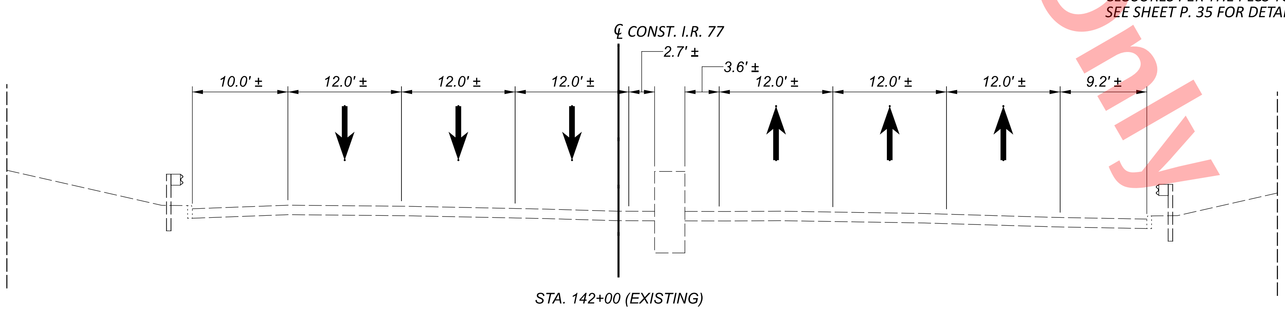
(*) - SAWCUT LOCATION VARIES 21.5' AT STA 145+00 TO 25.5' AT STA. 147+00
25.5' STA. 147+00 TO STA. 148+00
VARIES 25.5' AT STA. 148+00 TO 21.5' AT STA. 152+00



STA. 142+00 (PRE-PHASE)

CLOSE THE SHOULDER PER MT-95.45. SEE MOT PLANS FOR LOCATIONS AND DETAILS.

REMOVE EX. RUMBLE STRIP. MILL 2.5' WIDE BY 1.5" DEEP CENTERED ON THE RUMBLE STRIP. FILL THE CAVITY WITH ASPHALT CONCRETE. SEE MOT PLANS FOR LOCATIONS. USE SHOULDER AND LANE CLOSURES PER THE PLCS TO COMPLETE. SEE SHEET P. 35 FOR DETAILS.



STA. 142+00 (EXISTING)

SHEET	TOTAL
P. 53	P. 1269

PROJECT ID: 105743

REVIEWER: MTR 05/01/26

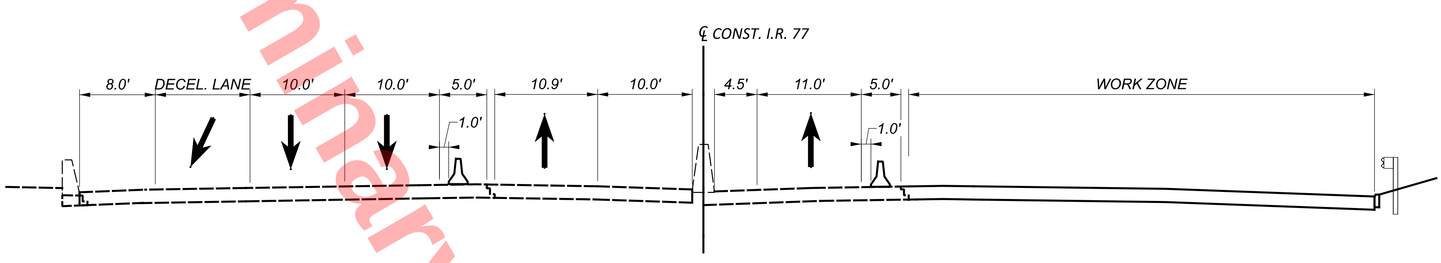
DESIGNER: MTD

DESIGN AGENCY: HNTB

MOT TYPICAL SECTIONS
STA. 142+00.00

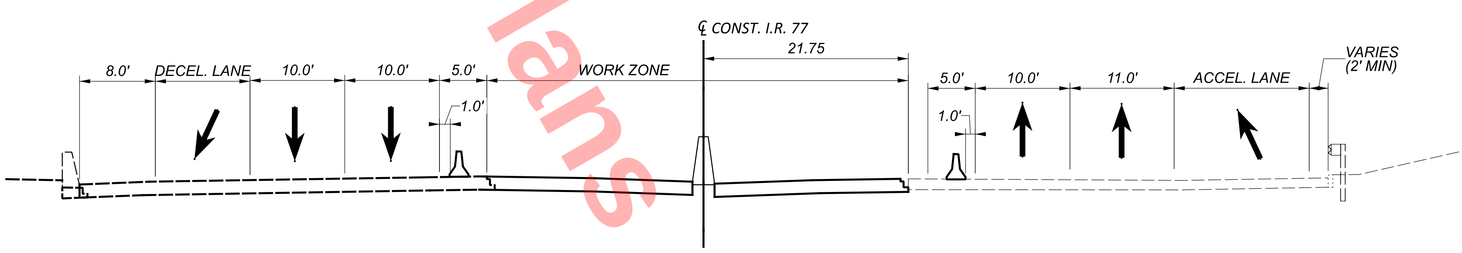
MODEL: Sheet8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:29 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MY001.dgn

Preliminary Plans - For Reference Only

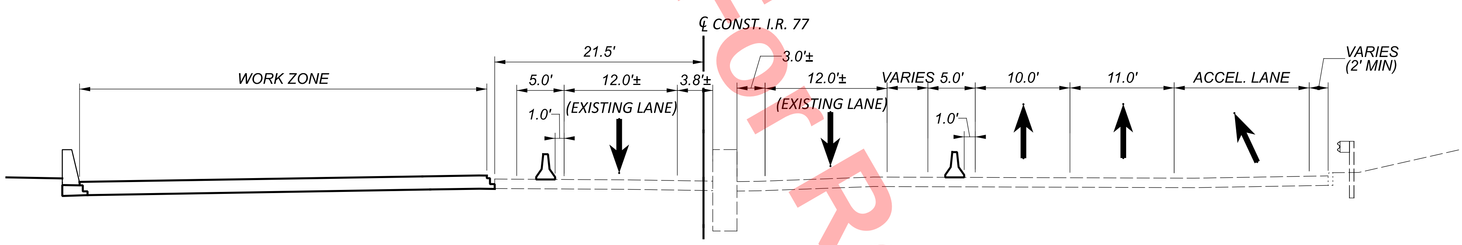


STA. 154+00 (PHASE 3A-3C**)

**- NB I-77 SHOWN IN PHASE 3B CONDITION SEE MOT PLANS FOR DETAILS OF PHASES 3A AND 3C

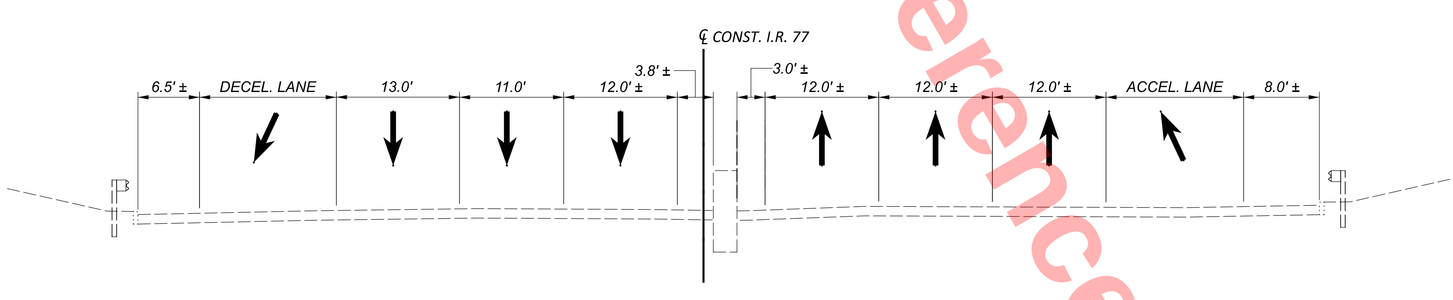


STA. 154+00 (PHASE 2)

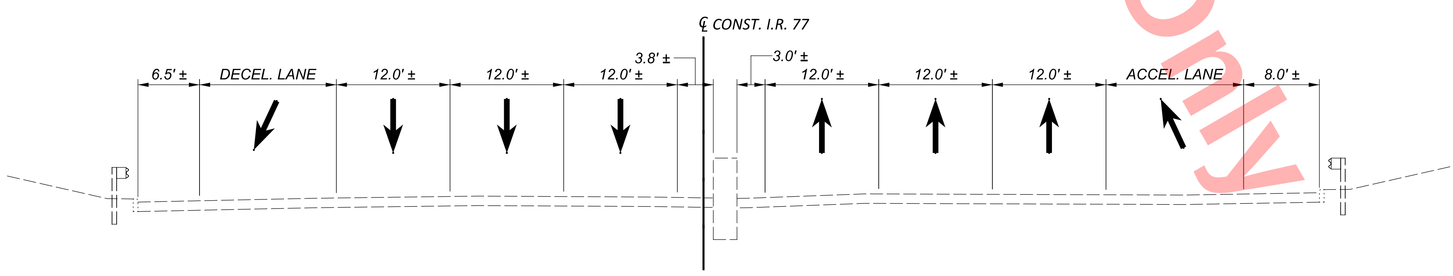


STA. 154+00 (PHASE 1A-1C*)

*- SB I-77 SHOWN IN PHASE 1B CONDITION SEE MOT PLANS FOR DETAILS OF PHASES 1A AND 1C



STA. 154+00 (PRE-PHASE)



STA. 154+00 (EXISTING)

SHEET	TOTAL
P.54	P.1269

PROJECT ID: 105743

REVIEWER: MTR 05/01/26

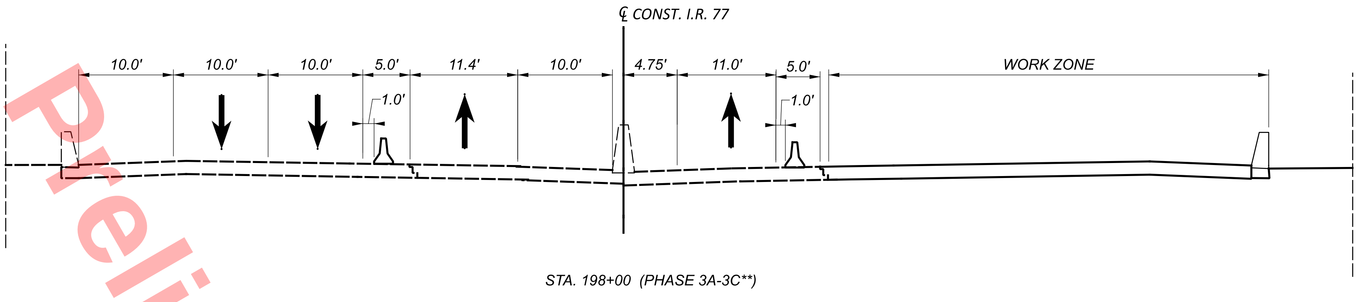
DESIGNER: MTD

DESIGN AGENCY: HNTB

MOT TYPICAL SECTIONS
STA. 154+00.00

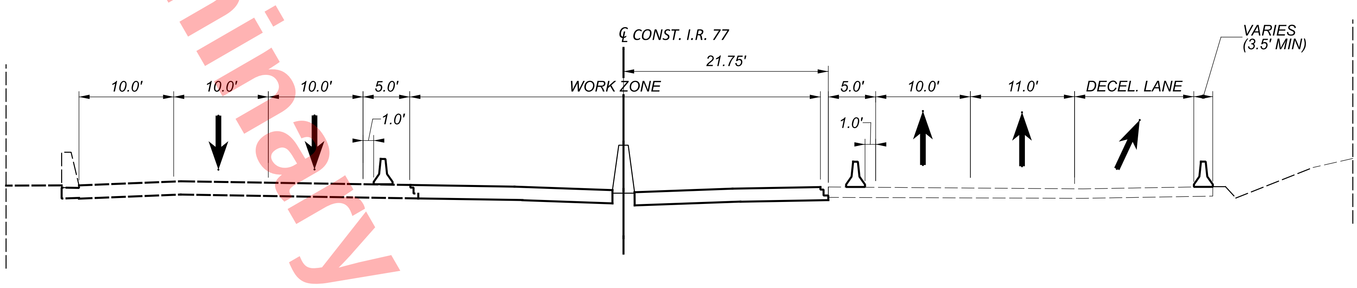
MODEL: Sheet9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:29 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MY001.dgn

Preliminary Plans - For Reference Only

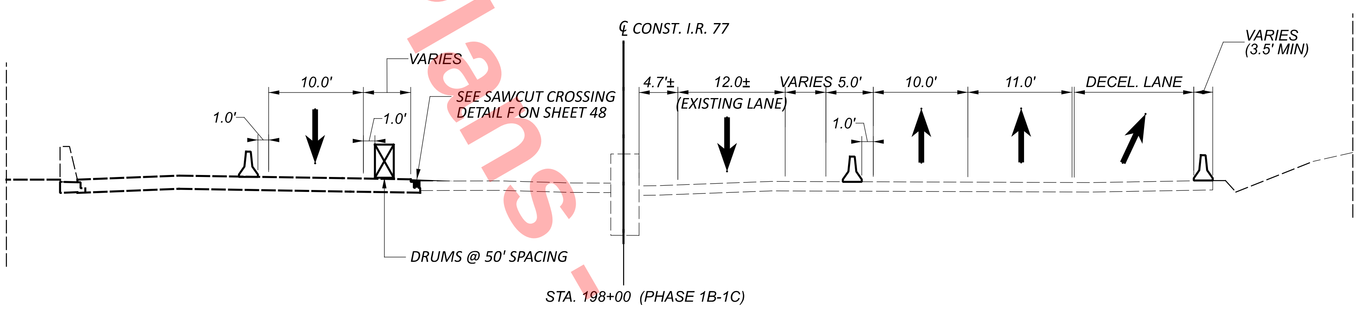


STA. 198+00 (PHASE 3A-3C**)

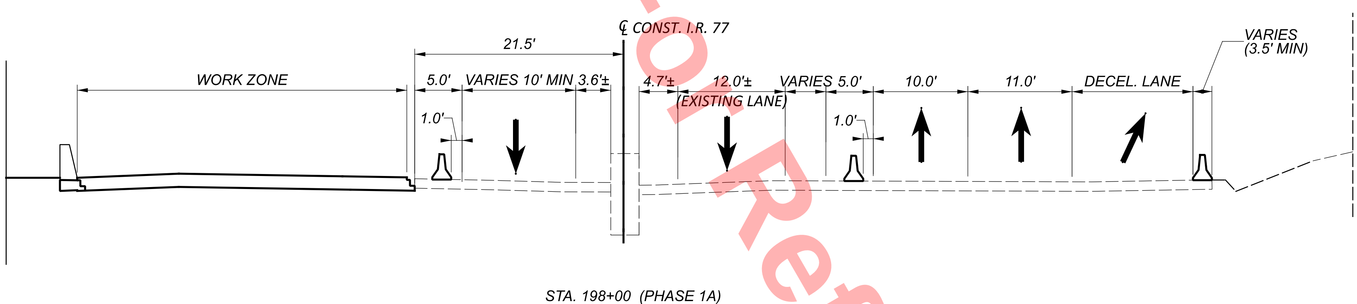
**- NB I-77 SHOWN IN PHASE 3B CONDITION SEE MOT PLANS FOR DETAILS OF PHASES 3A AND 3C



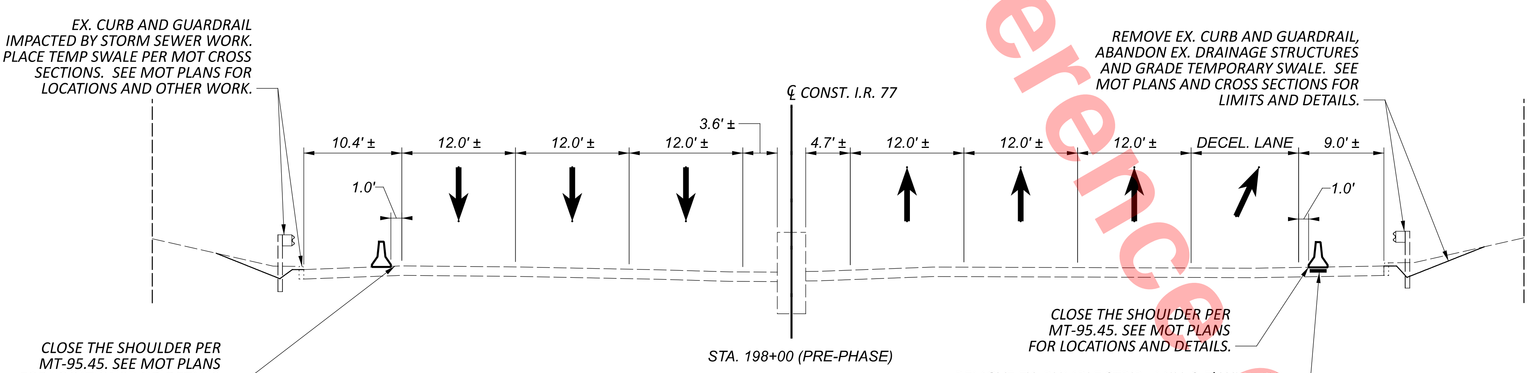
STA. 198+00 (PHASE 2)



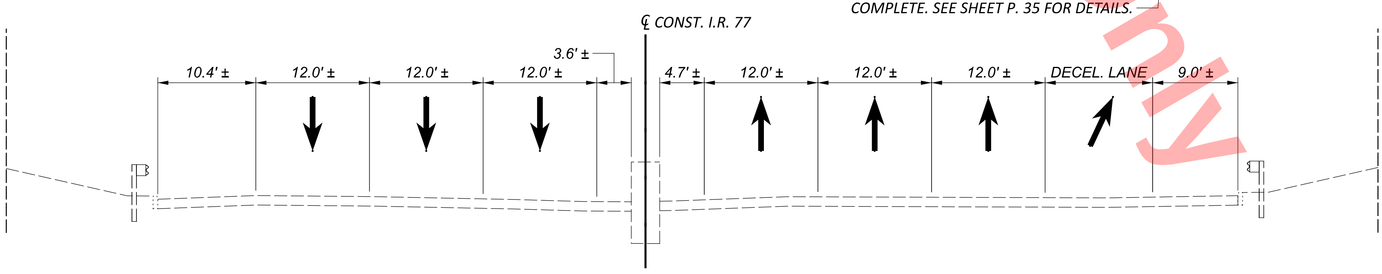
STA. 198+00 (PHASE 1B-1C)



STA. 198+00 (PHASE 1A)



STA. 198+00 (PRE-PHASE)



STA. 198+00 (EXISTING)

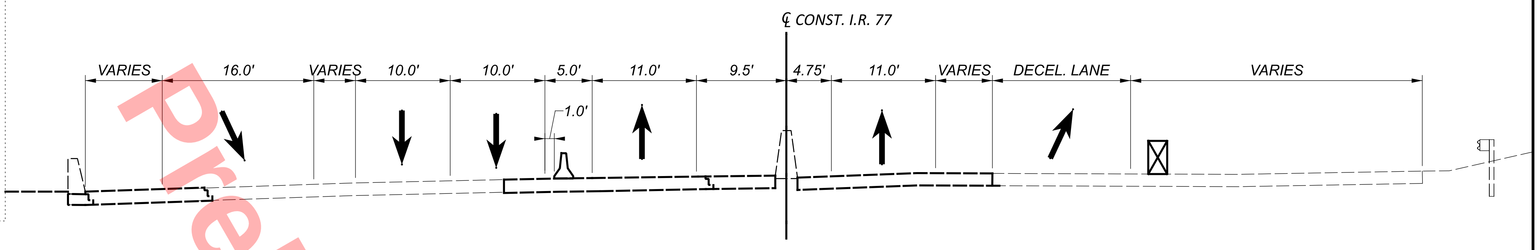
SHEET	TOTAL
P.55	P.1269

PROJECT ID: 105743
REVIEWER: MTR 05/01/26
DESIGNER: MTD
DESIGN AGENCY: HNTB

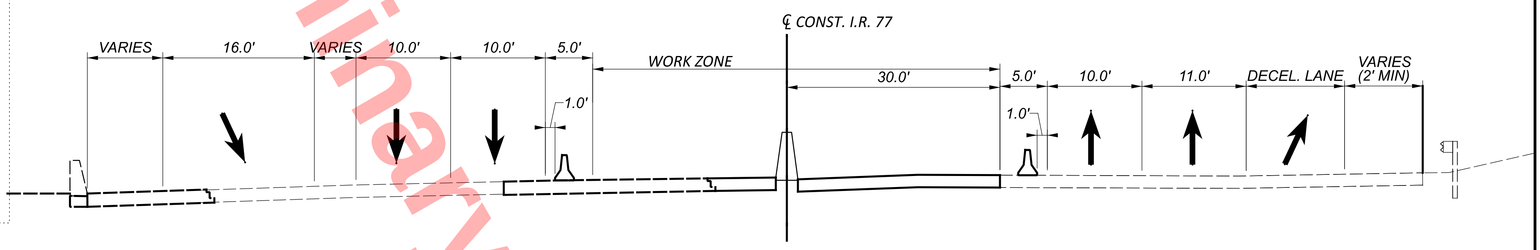
MOT TYPICAL SECTIONS
STA. 198+00.00

MODEL: Sheet10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:30 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MY001.dgn

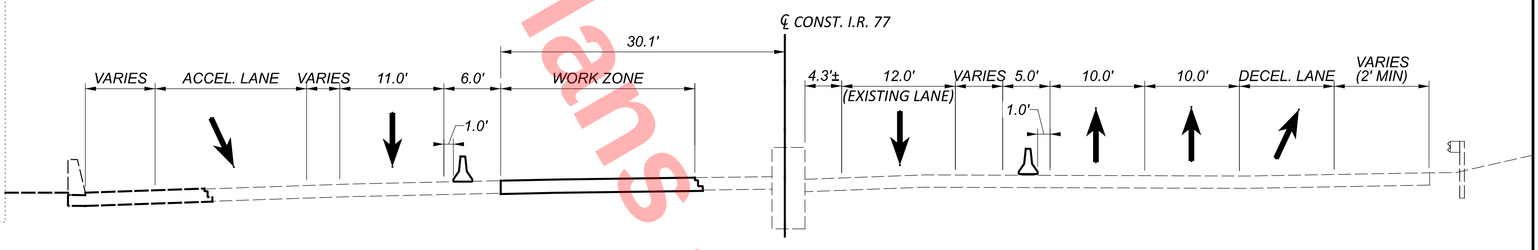
Preliminary Plans - For Reference Only



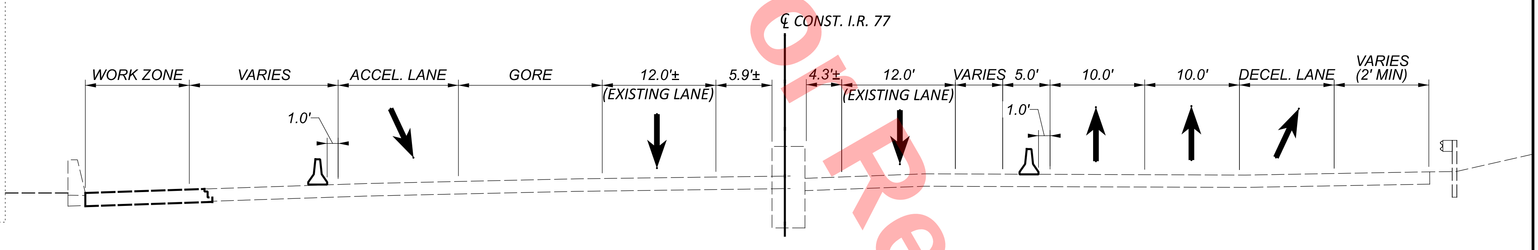
STA. 212+00 (PHASE 3A-3C)



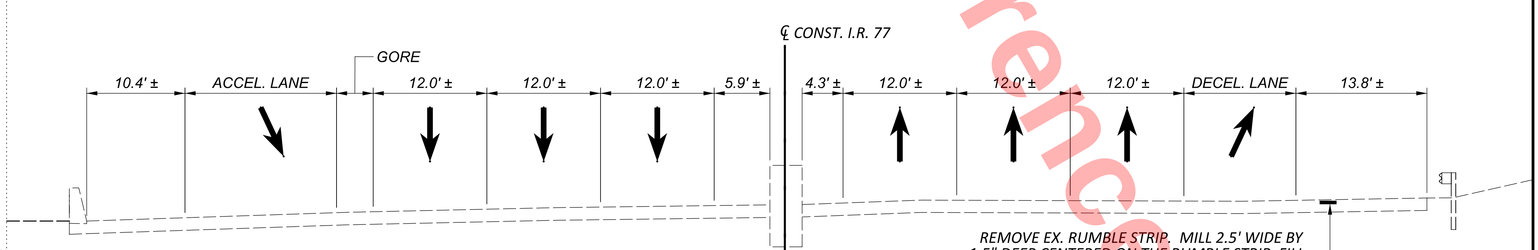
STA. 212+00 (PHASE 2)



STA. 212+00 (PHASE 1B-1C)

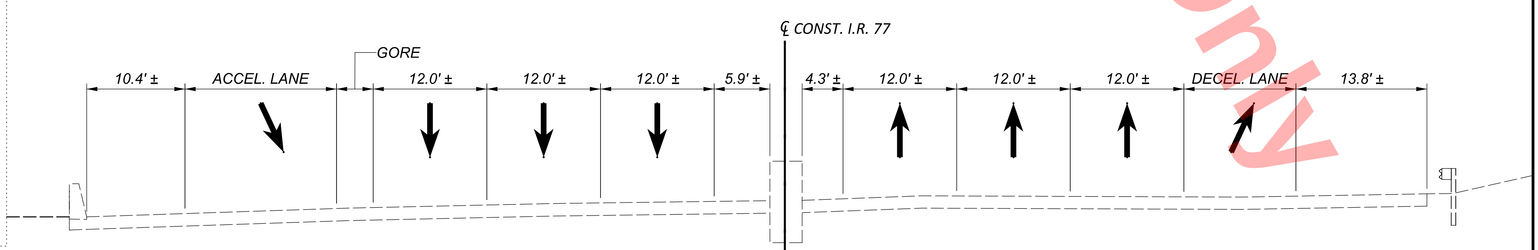


STA. 212+00 (PHASE 1A)



REMOVE EX. RUMBLE STRIP. MILL 2.5' WIDE BY 1.5"' DEEP CENTERED ON THE RUMBLE STRIP. FILL THE CAVITY WITH ITEM 614 - ASPHALT CONCRETE FOR MOT. SEE MOT PLANS FOR LOCATIONS. USE SHOULDER AND LANE CLOSURES PER THE PLCS TO COMPLETE. SEE SHEET P. 35 FOR DETAILS

STA. 212+00 (PRE-PHASE)



STA. 212+00 (EXISTING)

SHEET	TOTAL
P.56	P.1269

PROJECT ID: 105743

REVIEWER: MTR 05/01/26

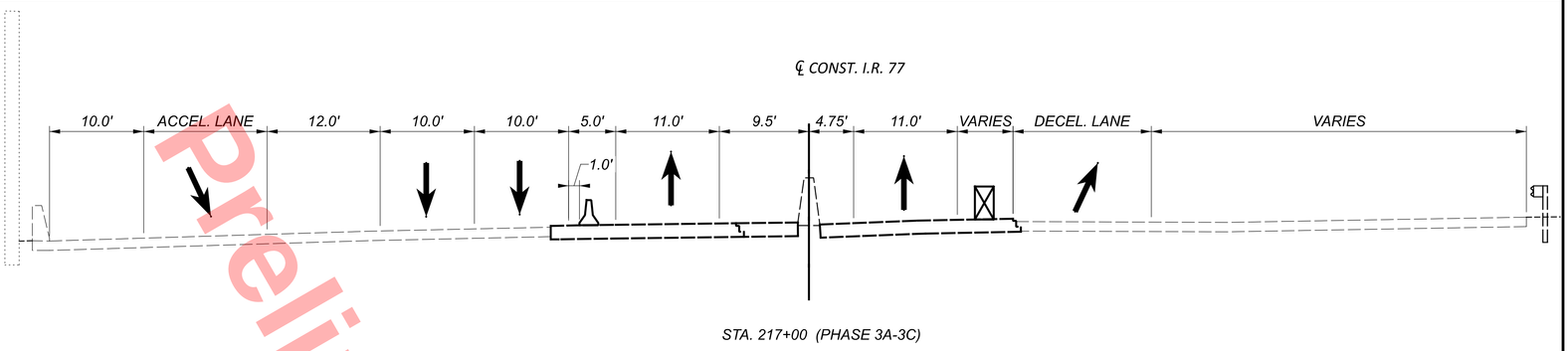
DESIGNER: MTD

DESIGN AGENCY: HNTB

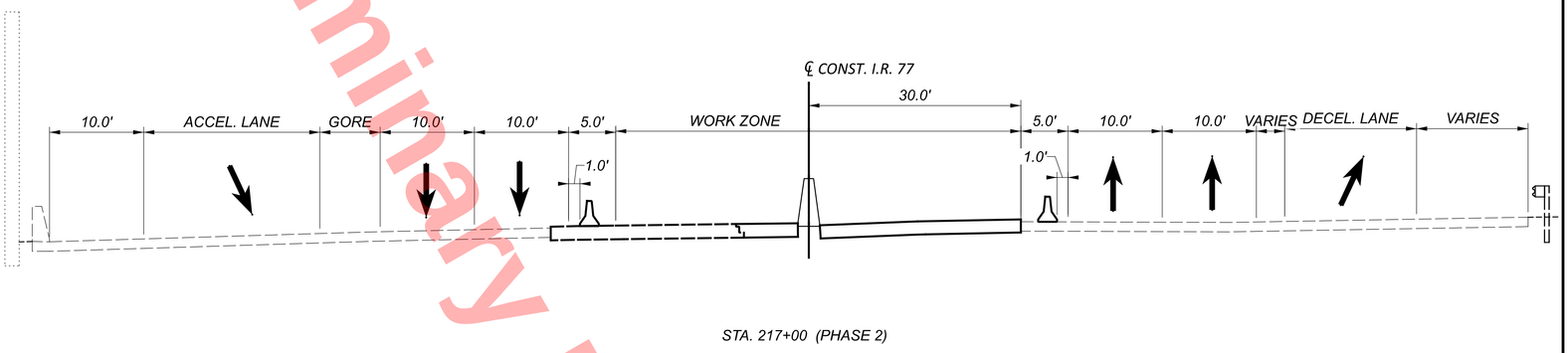
MOT TYPICAL SECTIONS
STA. 212+00.00

MODEL: Sheet11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:30 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MY001.dgn

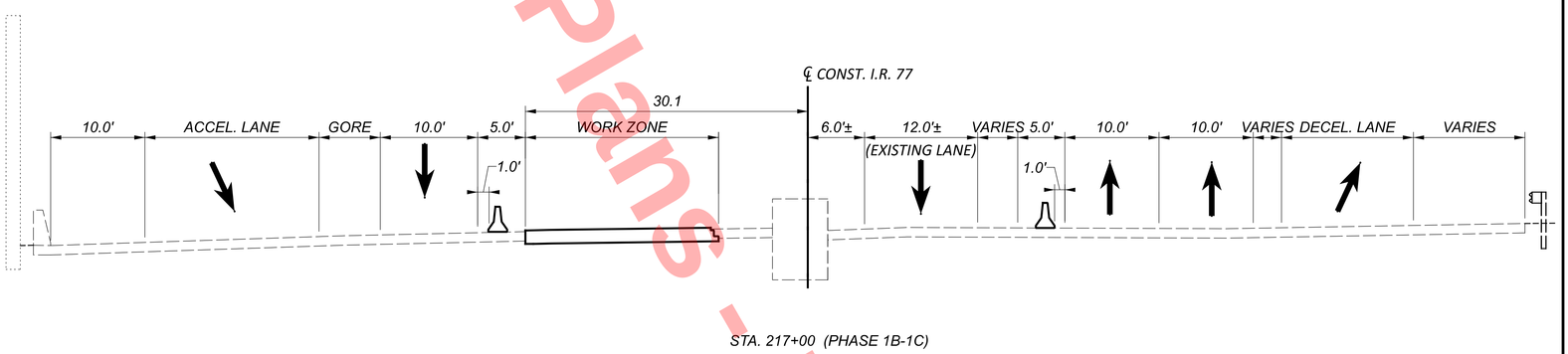
Preliminary Plans - For Reference Only



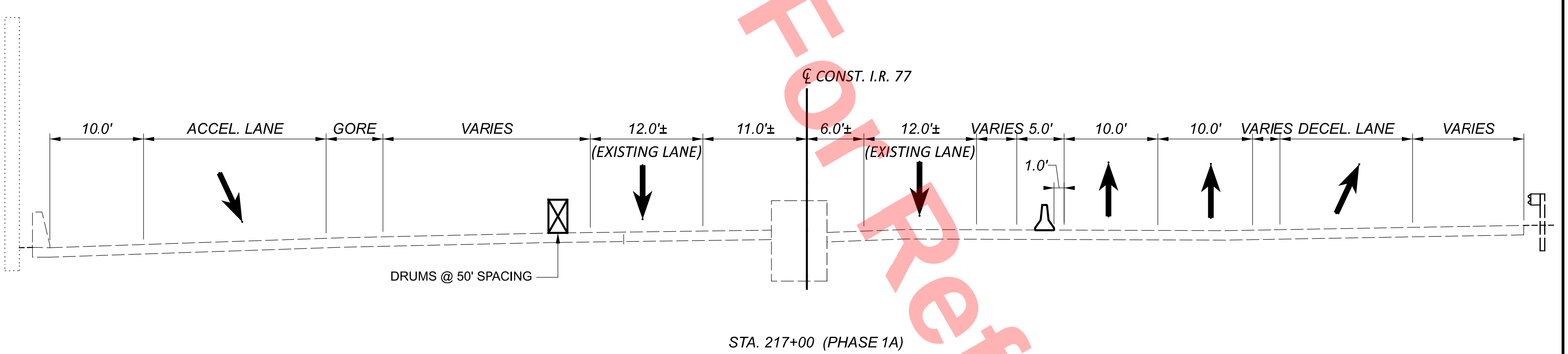
STA. 217+00 (PHASE 3A-3C)



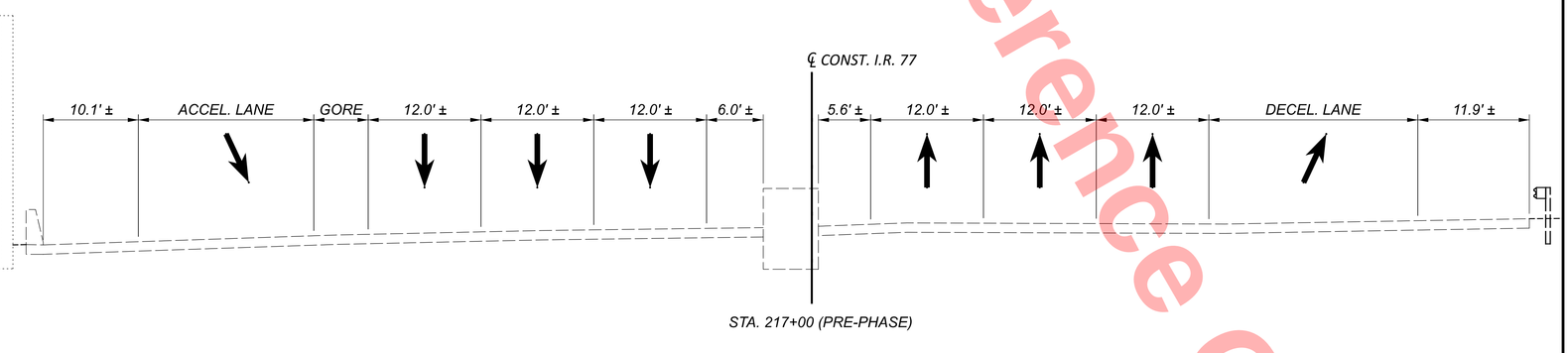
STA. 217+00 (PHASE 2)



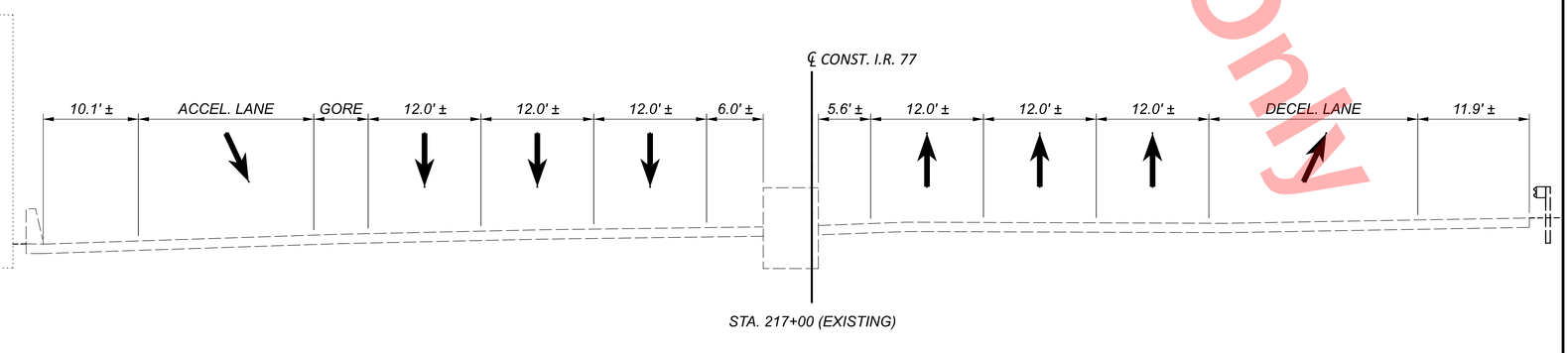
STA. 217+00 (PHASE 1B-1C)



STA. 217+00 (PHASE 1A)



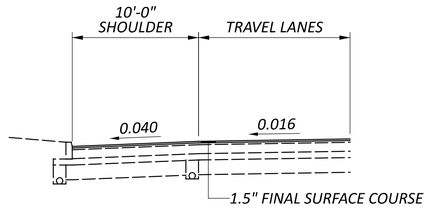
STA. 217+00 (PRE-PHASE)



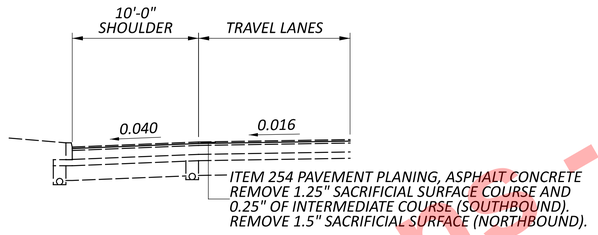
STA. 217+00 (EXISTING)

SHEET	TOTAL	PROJECT ID	REVIEWER	DESIGNER		DESIGN AGENCY
P.57	P.1269	105743	MTR 05/01/26	MTD	HNTB	

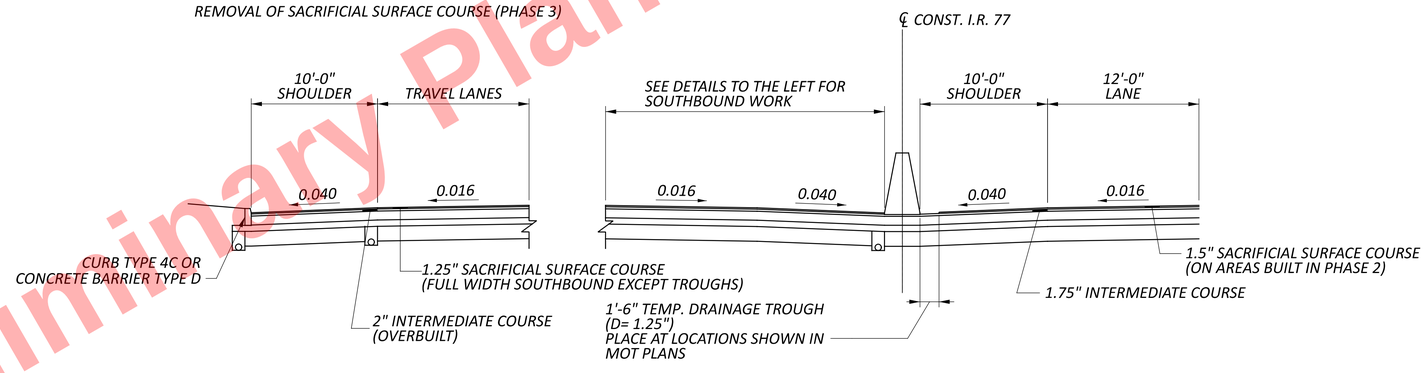
MOT TYPICAL SECTIONS
STA. 217+00.00



PLACING FINAL ASPHALT SURFACE COURSE (PHASE 3)



REMOVAL OF SACRIFICIAL SURFACE COURSE (PHASE 3)



NORMAL SECTION - I.R. 77

NORTHBOUND INSIDE SHOULDER AT CONCLUSION OF PHASE 2 MOT
SOUTHBOUND OUTSIDE SHOULDER SACRIFICIAL COURSE (PHASE 1)

Preliminary Plans - For Reference Only

MAINTENANCE OF TRAFFIC
MISCELLANEOUS DRAINAGE DETAIL

DESIGN AGENCY
HNTB

DESIGNER
MTD

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.58 TOTAL P.1269

CUY-77-11.41 - PART 1

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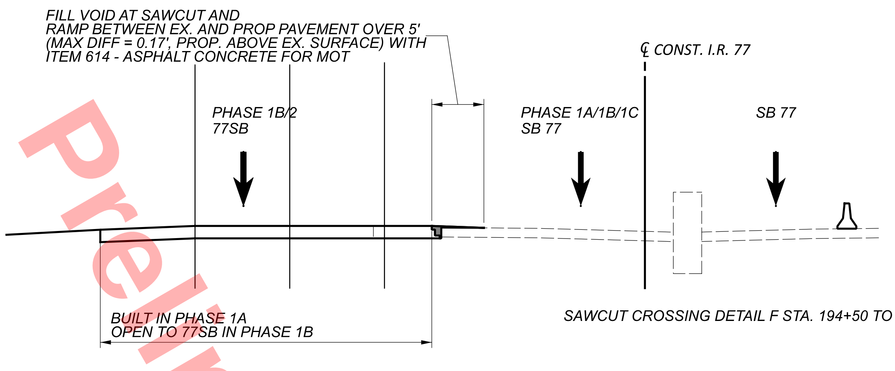
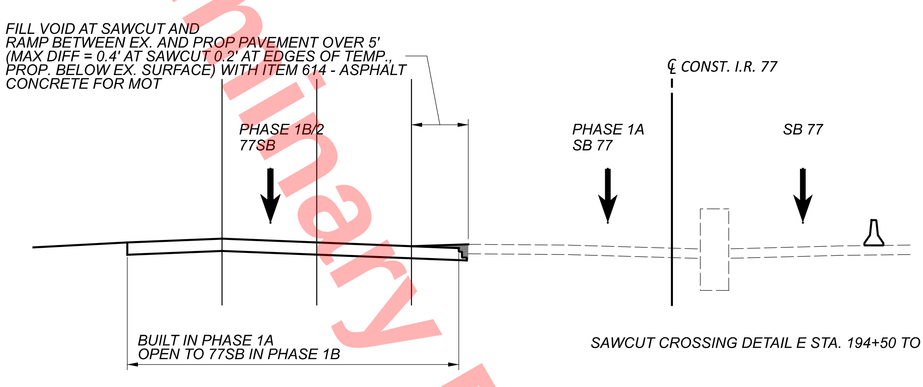
Preliminary Plans - For Reference Only

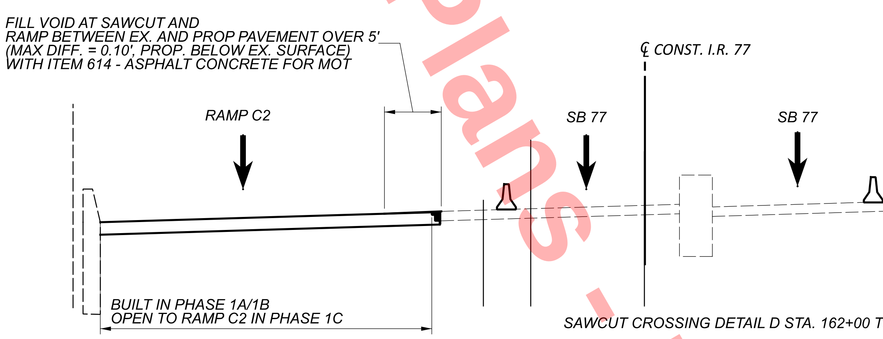
NOTE: THIS SHEET PROVIDES DETAIL ON TREATMENTS FOR AREAS THAT TRAFFIC WILL NEED TO CROSS THE SAWCUT LINE BETWEEN PROPOSED AND EXISTING PAVEMENT SURFACES. THE ARROWS INDICATE THE LANE LOCATIONS BEFORE AND AFTER THE CROSSINGS. SEE THE MOT PLANS FOR MORE DETAILS OF THE CROSSING LOCATIONS.



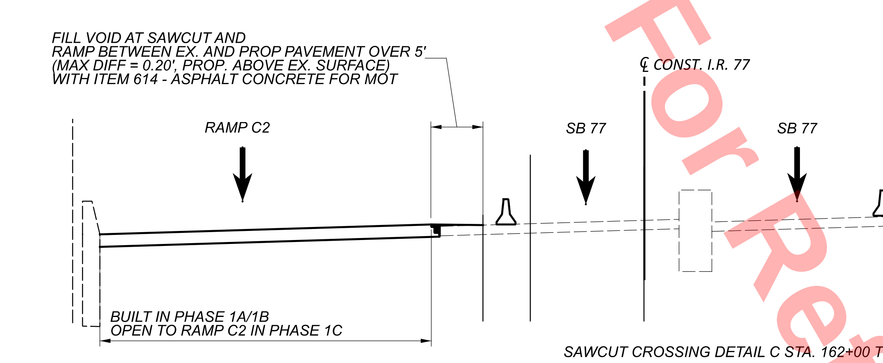
SAWCUT CROSSING DETAIL F STA. 194+50 TO 200+00 (PHASE 1B)



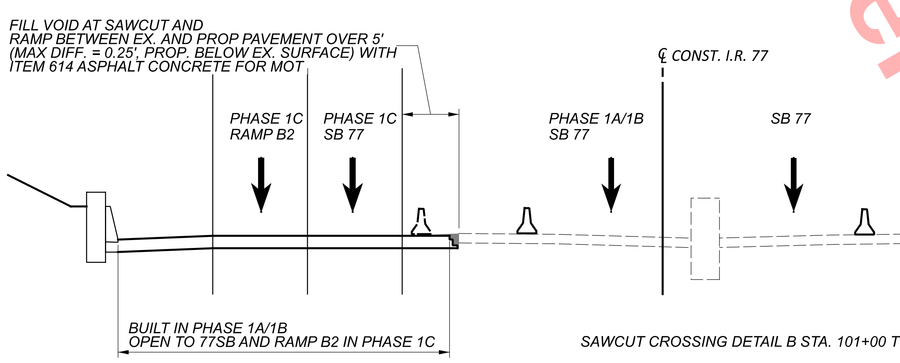
SAWCUT CROSSING DETAIL E STA. 194+50 TO 200+00 (PHASE 1B)



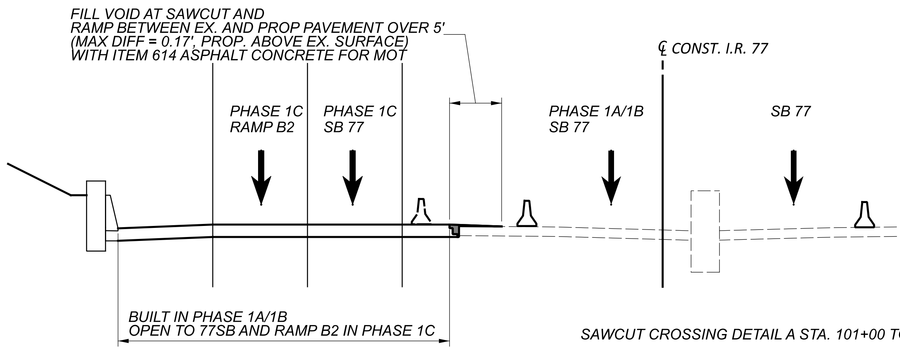
SAWCUT CROSSING DETAIL D STA. 162+00 TO 169+50 (PHASE 1C)



SAWCUT CROSSING DETAIL C STA. 162+00 TO 169+50 (PHASE 1C)



SAWCUT CROSSING DETAIL B STA. 101+00 TO 107+00 (PHASE 1C)



SAWCUT CROSSING DETAIL A STA. 101+00 TO 107+00 (PHASE 1C)

SHEET	TOTAL
P.59	P.1241

PROJECT ID: 105743

REVIEWER: KKP 11/20/25

DESIGNER: AS

DESIGN AGENCY: HNTB

MAINTENANCE OF TRAFFIC
PHASE JOINT CROSSING DETAILS

MODEL: Unnamed Plan-2 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:47 AM USER: kperkins
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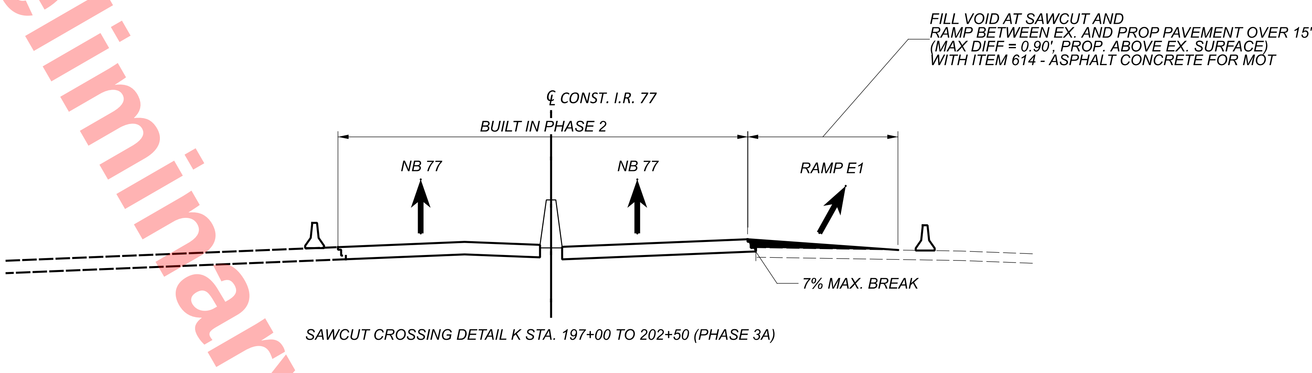
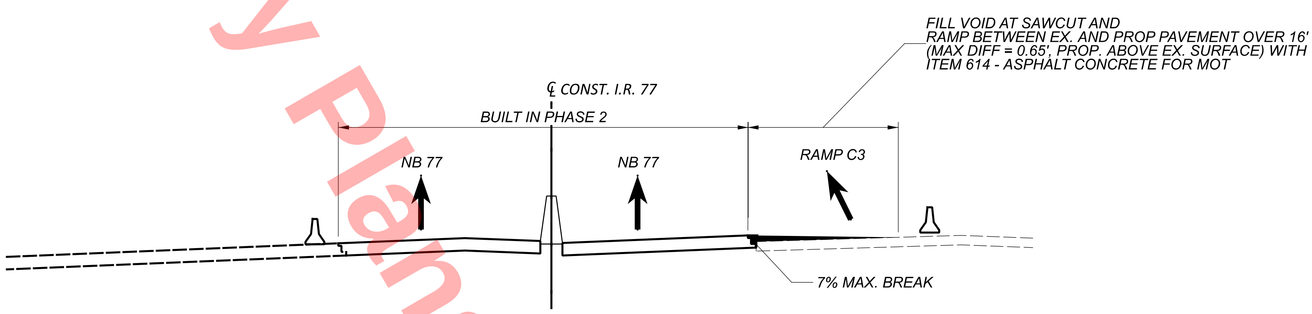
NOTE: THIS SHEET PROVIDES DETAIL ON TREATMENTS FOR AREAS THAT TRAFFIC WILL NEED TO CROSS THE SAWCUT LINE BETWEEN PROPOSED AND EXISTING PAVEMENT SURFACES. THE ARROWS INDICATE THE LANE LOCATIONS BEFORE AND AFTER THE CROSSINGS. SEE THE MOT PLANS FOR MORE DETAILS OF THE CROSSING LOCATIONS.

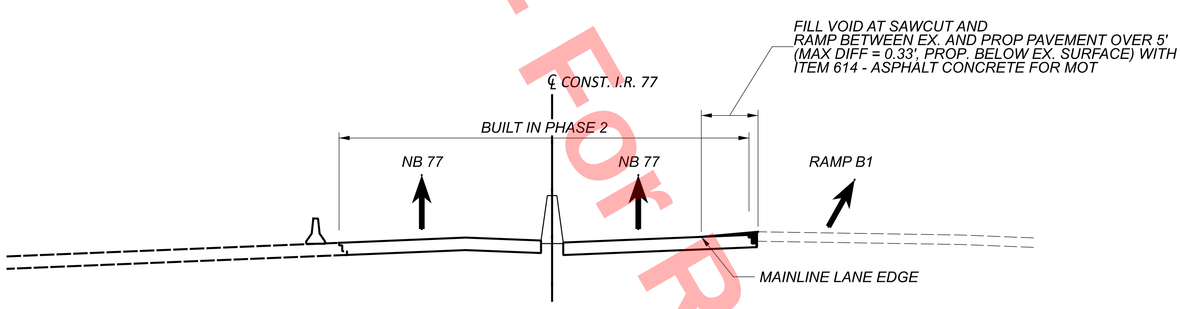
Preliminary Plans - For Reference Only



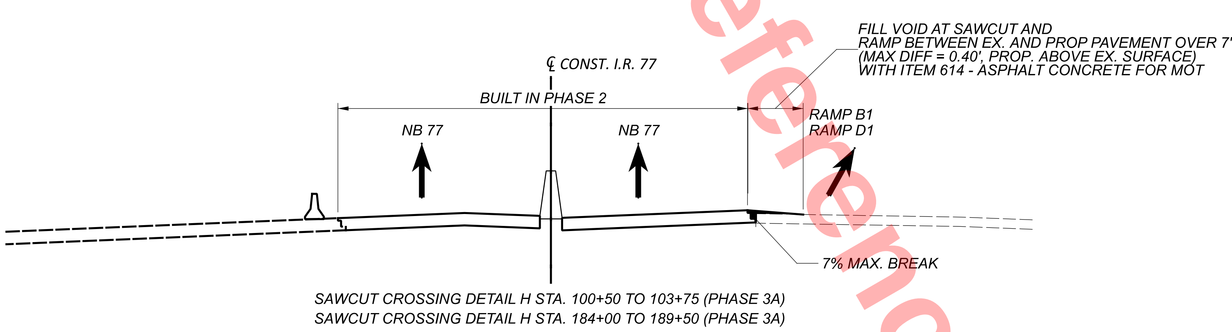
SAWCUT CROSSING DETAIL K STA. 197+00 TO 202+50 (PHASE 3A)



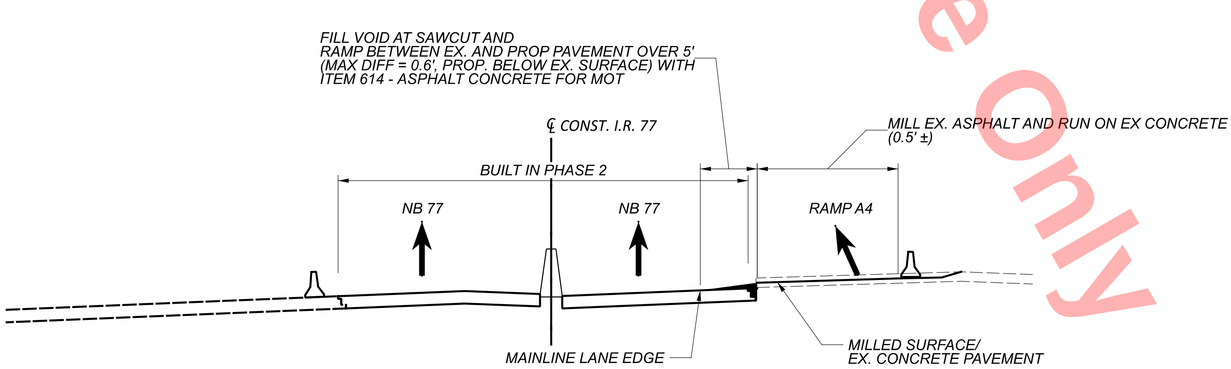
SAWCUT CROSSING DETAIL J STA. 159+00 TO 169+00 (PHASE 3A)



SAWCUT CROSSING DETAIL I STA. 103+75 TO 106+50 (PHASE 3A)



SAWCUT CROSSING DETAIL H STA. 100+50 TO 103+75 (PHASE 3A)
SAWCUT CROSSING DETAIL H STA. 184+00 TO 189+50 (PHASE 3A)



SAWCUT CROSSING DETAIL G STA. 84+00 TO 95+00 (PHASE 3A)

SHEET	TOTAL	PROJECT ID	REVIEWER	DESIGNER		DESIGN AGENCY
P.60	P.1241	105743	KKP 11/20/25	AS	HNTB	

MAINTENANCE OF TRAFFIC
PHASE JOINT CROSSING DETAILS

1 — NORTH — M3-1-24 — INTERSTATE 77 — M1-1-24-2 — RAMP CLOSED AHEAD — W20-3-48

2 — NORTH — M3-1-24 — INTERSTATE 77 — M1-1-24-2 — DETOUR AHEAD — W20-2-48

3 — DETOUR — M4-8-24 — NORTH — M3-1-24 — INTERSTATE 77 — M1-1-24-2 — M6-3-21

4a — DETOUR — M4-8-24 — NORTH — M3-1-24 — INTERSTATE 77 — M1-1-24-2 — M5-1-21

4b — DETOUR — M4-8-24 — NORTH — M3-1-24 — INTERSTATE 77 — M1-1-24-2 — M5-2-21

5 — DETOUR — M4-8-24 — NORTH — M3-1-24 — INTERSTATE 77 — M1-1-24-2 — M6-1-21

6 — DETOUR — M4-8-24 — NORTH — M3-1-24 — INTERSTATE 77 — M1-1-24-2 — M6-1-21

7 — ROAD CLOSED — R11-2-48
MOUNTED ON TYPE III BARRICADE WITH TYPE B FLASHING YELLOW LIGHTS

8 — END DETOUR — M4-8A-24

9 — SOUTH — M3-3-24 — INTERSTATE 77 — M1-1-24-2 — RAMP CLOSED AHEAD — W20-3-48

10 — SOUTH — M3-3-24 — INTERSTATE 77 — M1-1-24-2 — DETOUR AHEAD — W20-2-48

11 — DETOUR — M4-8-24 — SOUTH — M3-3-24 — INTERSTATE 77 — M1-1-24-2 — M6-3-21

12a — DETOUR — M4-8-24 — SOUTH — M3-3-24 — INTERSTATE 77 — M1-1-24-2 — M5-1-21

12b — DETOUR — M4-8-24 — SOUTH — M3-3-24 — INTERSTATE 77 — M1-1-24-2 — M5-2-21

13 — DETOUR — M4-8-24 — SOUTH — M3-3-24 — INTERSTATE 77 — M1-1-24-2 — M6-1-21

14 — DETOUR — M4-8-24 — SOUTH — M3-3-24 — INTERSTATE 77 — M1-1-24-2 — M6-1-21

- RAMP WORK AREA
- DETOUR ROUTE

NOTE: ALL M3, M4, M5, AND M6 SIGNS SHALL BE BLACK ON ORANGE

* - PLACEMENT AND SPACING OF SIGNS IN THE DETOUR LEGEND ARE INTENDED FOLLOW GUIDANCE PER MT-98.30

E 55TH ST

HARVARD AVE

NEWBURGH SOUTH SHORE RAILROAD LINE

RAMP CLOSED PER MT-98.30

PLACE BLACK ON ORANGE " CLOSED" TEMPORARY OVERLAY ON BOTH SIDES OF EX. CANTILEVER OVERHEAD GUIDE SIGNS

TRAFFIC SIGNAL

RAMP A1

RAMP A4 (CLOSED)

RAMP A2

RAMP A3

GRANT AVE

TRAFFIC SIGNAL

CLOSE WB LEFT TURN LANE TO RAMP B2 PER MT-98.30

PLACE BLACK ON ORANGE "CLOSED" TEMPORARY OVERLAY ON BOTH SIDES OF EX. CANTILEVER OVERHEAD GUIDE SIGNS

77

RAMP B1

RAMP B2 (CLOSED)

RAMP CLOSED PER MT-98.30
CLOSE WB LEFT TURN LANE AND EB RIGHT TURN LANE TO RAMP B2 PER MT-98.30

RAMP B4

TRAFFIC SIGNAL

RAMP C1

RAMP B3

WASHINGTON PARK BLVD

TRAFFIC SIGNAL

E 49TH ST

TRAFFIC SIGNAL

NOTE:
1.) FOR ALL DRIVEWAYS ALONG GRANT AVENUE BETWEEN E.49TH STREET AND I-77 SB PLACE SIGN 5 OR 6 FACING THE DRIVEWAY TO DIRECT NB 77 TRAFFIC TO USE THE HARVARD RAMP. ALONG E.49TH STREET BETWEEN GRANT AND HARVARD PLACE SIGN 5 OR 6 AND SIGN 13 OR 14 TO DIRECT TRAFFIC ACCORDINGLY

2.) THOUGH RAMPS A4 AND B2 ARE SHOWN CLOSED CONCURRENTLY ON THIS DETOUR MAP THE MOT NOTES AND THE ENGINEER SHALL GOVERN WHEN THE RAMPS MAY BE CLOSED. THE CONTRACTOR SHALL COORDINATE THEIR INTENDED CLOSURE SEQUENCE WITH THE ENGINEER FOR APPROVAL PRIOR TO CLOSURES OF ANY RAMP

Preliminary Plans. For Reference Only

HORIZONTAL SCALE IN FEET
0 125 250 500

DETOUR PLAN
GRANT AVENUE NB ENTRANCE (RAMP B2) / GRANT AVENUE SB ENTRANCE (RAMP A1) / HARVARD AVENUE SB ENTRANCE (RAMP B2)

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.61 TOTAL P.1269

CUY-77-11.41 - PART 1

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1 — Harvard Ave — D3-1-48 — TYPE A WARNING LIGHT — RAMP CLOSED AHEAD — W20-3-48

2 — Harvard Ave — D3-1-48 — TYPE A WARNING LIGHT — DETOUR AHEAD — W20-2-48

3 — Harvard Ave — D3-1-48 — DETOUR — M4-9-MOD (30" X 30")

4 — Harvard Ave — D3-1-48 — DETOUR — M4-9R-MOD (30" X 30")

5a — Harvard Ave — D3-1-48 — DETOUR — M4-H9R-30

5b — Harvard Ave — D3-1-48 — DETOUR — M4-H9L-30

6 — Harvard Ave — D3-1-48 — DETOUR — M4-9L-30

7 — Harvard Ave — D3-1-48 — DETOUR — M4-9R-30

8 — ROAD CLOSED — R11-2-48 — MOUNTED ON TYPE III BARRICADE WITH TYPE B FLASHING YELLOW LIGHTS

9 — END DETOUR — M4-8A-24

10 — Grant Ave — D3-1-48 — TYPE A WARNING LIGHT — RAMP CLOSED AHEAD — W20-3-48

11 — Grant Ave — D3-1-48 — TYPE A WARNING LIGHT — DETOUR AHEAD — W20-2-48

12 — Grant Ave — D3-1-48 — DETOUR — M4-9-MOD (30" X 30")

13 — Grant Ave — D3-1-48 — DETOUR — M4-9R-MOD (30" X 30")

14a — Grant Ave — D3-1-48 — DETOUR — M4-H9R-30

14b — Grant Ave — D3-1-48 — DETOUR — M4-H9L-30

15 — Grant Ave — D3-1-48 — DETOUR — M4-9L-30

16 — Grant Ave — D3-1-48 — DETOUR — M4-9R-30

HORIZONTAL SCALE IN FEET: 0, 125, 250, 500

- RAMP WORK AREA
- DETOUR ROUTE

NOTE: ALL M3, M4, M5, AND M6 SIGNS SHALL BE BLACK ON ORANGE

* - PLACEMENT AND SPACING OF SIGNS IN THE DETOUR LEGEND ARE INTENDED TO BE SPACED IN ADVANCE OF RAMP B3 RAMP A1 PER MT-98.29

E 55TH ST

HARVARD AVE

NEWBURGH SOUTH SHORE RAILROAD LINE

PLACE BLACK ON ORANGE "EXIT CLOSED" TEMPORARY OVERLAY ON EX. HARVARD AVE. TRUSS MOUNTED OVERHEAD GUIDE SIGN

PLACE BLACK ON ORANGE "EXIT CLOSED" TEMPORARY OVERLAY ON EX. GRANT AVE. TRUSS MOUNTED OVERHEAD GUIDE SIGN

TRAFFIC SIGNAL

RAMP A1

RAMP A4

RAMP A2

RAMP A3 (CLOSED)

TRAFFIC SIGNAL

PLACE BLACK ON ORANGE "EXIT CLOSED" TEMPORARY OVERLAY ON EX. GRANT AVE. CANTILEVER OVERHEAD GUIDE SIGN

RAMP CLOSED PER MT-98.29

PLACE BLACK ON ORANGE "EXIT CLOSED" TEMPORARY OVERLAY ON EX. HARVARD AVE. TRUSS MOUNTED OVERHEAD GUIDE SIGN

GRANT AVE

77

RAMP CLOSED PER MT-98.29

RAMP B1 (CLOSED)

PLACE BLACK ON ORANGE "EXIT CLOSED" TEMPORARY OVERLAY ON EX. GRANT AVE. TRUSS MOUNTED OVERHEAD GUIDE SIGN

PLACE BLACK ON ORANGE "EXIT CLOSED" TEMPORARY OVERLAY ON EX. HARVARD AVE. TRUSS MOUNTED OVERHEAD GUIDE SIGN

RAMP B2

TRAFFIC SIGNAL

RAMP B4

RAMP C1

RAMP B3

WASHINGTON PARK BLVD

TRAFFIC SIGNAL

E 49TH ST

TRAFFIC SIGNAL

NOTE: THOUGH RAMPS A3 AND B1 ARE SHOWN CLOSED CONCURRENTLY ON THIS DETOUR MAP THE MOT NOTES AND THE ENGINEER SHALL GOVERN WHEN THE RAMPS MAY BE CLOSED. THE CONTRACTOR SHALL COORDINATE THEIR INTENDED CLOSURE SEQUENCE WITH THE ENGINEER FOR APPROVAL PRIOR TO CLOSURES OF ANY RAMP

Preliminary Plans - For Reference Only

DETOUR PLAN
GRANT AVENUE SB EXIT (RAMP A3)/ HARVARD AVENUE NB EXIT (RAMP B1)

CUY-77-11.41 - PART 1

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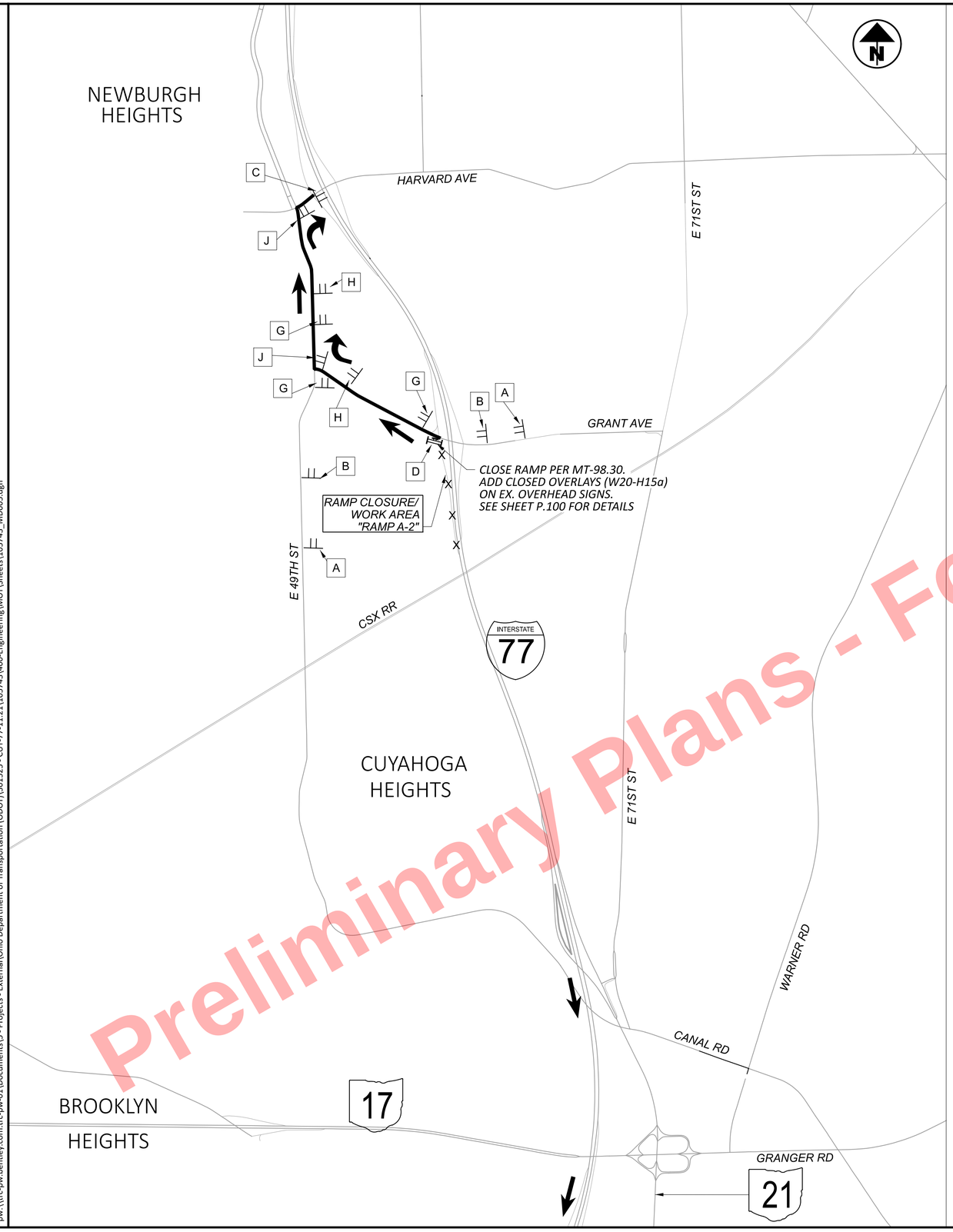
DESIGN AGENCY: HNTB

DESIGNER: AS

REVIEWER: KKP 05/01/26

PROJECT ID: 105743

SHEET: P.62 TOTAL: P.1269



LEGEND:

- *DETOUR ROUTE - RAMP "A-2"*
- *PRIMARY DETOUR ROUTE*
- A — *WORK ZONE SIGN & SUPPORT*
- X — *RAMP CLOSURE*

A — SOUTH / INTERSTATE 77 — *M3-3-24* / *M1-1-24-2* — RAMP CLOSED AHEAD — *W20-3-48*

B — SOUTH / INTERSTATE 77 — *M3-3-24* / *M1-1-24-2* — DETOUR AHEAD — *W20-2-48*

C — END DETOUR — *M4-8a-24*

D — ROAD CLOSED / DETOUR — *R11-2-48* / *M4-10R-48* (WITH TYPE III BARRICADE)

E — ROAD CLOSED — *R11-2-48*

G — DETOUR / SOUTH / INTERSTATE 77 — *M4-8-24* *M3-3-24* *M1-1-24-2* *M6-3-21*

H — DETOUR / SOUTH / INTERSTATE 77 — *M4-8-24* *M3-3-24* *M1-1-24-2* *M5-1R-21*

J — DETOUR / SOUTH / INTERSTATE 77 — *M4-8-24* *M3-3-24* *M1-1-24-2* *M6-1-21*

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 125 250 500

DETOUR PLAN
GRANT AVENUE SB ENTRANCE (RAMP A2)

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.63 TOTAL P.1269

CUY-77-11.41 - PART 1

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1 — Harvard Ave / D3-1-48 / TYPE A WARNING LIGHT / RAMP CLOSED AHEAD / W20-3-48

2 — Harvard Ave / D3-1-48 / TYPE A WARNING LIGHT / DETOUR AHEAD / W20-2-48

3 — Harvard Ave / D3-1-48 / DETOUR / M4-9-MOD (30" X 30")

4 — Harvard Ave / D3-1-48 / DETOUR / M4-9R-MOD (30" X 30")

5a — Harvard Ave / D3-1-48 / DETOUR / M4-H9R-30

5b — Harvard Ave / D3-1-48 / DETOUR / M4-H9L-30

6 — Harvard Ave / D3-1-48 / DETOUR / M4-9R-30

7 — ROAD CLOSED / R11-2-48 / MOUNTED ON TYPE III BARRICADE WITH TYPE B FLASHING YELLOW LIGHTS

8 — END DETOUR / M4-8A-24

9 — NORTH / M3-3-24 / INTERSTATE 77 / M1-1-24-2 / TYPE A WARNING LIGHT / RAMP CLOSED AHEAD / W20-3-48

10 — NORTH / M3-3-24 / INTERSTATE 77 / M1-1-24-2 / TYPE A WARNING LIGHT / DETOUR AHEAD / W20-2-48

11 — DETOUR / M4-8-24 / NORTH / M3-3-24 / INTERSTATE 77 / M1-1-24-2 / M6-3-21

12a — DETOUR / M4-8-24 / NORTH / M3-3-24 / INTERSTATE 77 / M1-1-24-2 / M5-1-21

12b — DETOUR / M4-8-24 / NORTH / M3-3-24 / INTERSTATE 77 / M1-1-24-2 / M5-1-21

13 — DETOUR / M4-8-24 / NORTH / M3-3-24 / INTERSTATE 77 / M1-1-24-2 / M6-1-21

14 — DETOUR / M4-8-24 / NORTH / M3-3-24 / INTERSTATE 77 / M1-1-24-2 / M6-1-21

- RAMP WORK AREA
- DETOUR ROUTE

NOTE: ALL M3, M4, M5, AND M6 SIGNS SHALL BE BLACK ON ORANGE

* - PLACEMENT AND SPACING OF SIGNS IN THE DETOUR LEGEND ARE INTENDED FOLLOW GUIDANCE PER MT-98.30

E 55TH ST

HARVARD AVE

NEWBURGH SOUTH SHORE RAILROAD LINE

CLOSE WB RIGHT TURN LANE TO RAMP B4 PER MT-98.30

TRAFFIC SIGNAL

PLACE BLACK ON ORANGE "CLOSED" TEMPORARY OVERLAY ON EX. I.R. 77 SOUTH CANTILEVER OVERHEAD GUIDE SIGNS

CLOSE EB LEFT TURN LANE TO RAMP B4 PER MT-98.30

ADD BLACK ON ORANGE "EXIT CLOSED" TEMPORARY OVERLAYS ON EX. HARVARD AVE. 1/2 MILE AND 1 MILE OVERHEAD TRUSS SIGNS JUST NORTH OF FLEET AVE.

RAMP B1

RAMP B2

RAMP B4 (CLOSED)

RAMP B3 (CLOSED)

RAMP C1

RAMP CLOSED PER MT-98.30

RAMP CLOSED PER MT-98.29

TRAFFIC SIGNAL

ADD BLACK ON ORANGE "EXIT CLOSED" TEMPORARY OVERLAY ON PROP. HARVARD AVE. CANTILEVER OVERHEAD SIGN.

RAMP A1

RAMP A2

RAMP A3

RAMP A4

TRAFFIC SIGNAL

GRANT AVE

E 49TH ST

TRAFFIC SIGNAL

NOTE:

1. FOR ALL DRIVEWAYS ALONG HARVARD AVENUE BETWEEN E. 49TH STREET AND RAMP B3 PLACE SIGN 5 OR 6 FACING THE DRIVEWAY TO DIRECT NB 77 TRAFFIC TO USE THE GRANT RAMP. ALONG E. 49TH STREET BETWEEN GRANT AND HARVARD PLACE SIGN 5 OR 6 AND SIGN 13 OR 14 TO DIRECT TRAFFIC ACCORDINGLY

2. THOUGH RAMPS B3 AND B4 ARE SHOWN CLOSED CONCURRENTLY ON THIS DETOUR MAP THE MOT NOTES AND THE ENGINEER SHALL GOVERN WHEN THE RAMPS MAY BE CLOSED. THE CONTRACTOR SHALL COORDINATE THEIR INTENDED CLOSURE SEQUENCE WITH THE ENGINEER FOR APPROVAL PRIOR TO CLOSURES OF ANY RAMP

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 125 250 500

DETOUR PLAN
HARVARD AVENUE SB EXIT (RAMP B3)/ HARVARD AVENUE NB ENTRANCE (RAMP B4)

DESIGN AGENCY: HNTB

DESIGNER: AS

REVIEWER: KKP 05/01/26

PROJECT ID: 105743

SHEET: P.64 TOTAL: P.1269

CUY-77-11.41 - PART 1

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1 — Fleet Ave — D3-1-48 — TYPE A WARNING LIGHT — RAMP CLOSED AHEAD — W20-3-48

2 — Fleet Ave — D3-1-48 — TYPE A WARNING LIGHT — DETOUR AHEAD — W20-2-48

3 — Fleet Ave — D3-1-48 — DETOUR — M4-9-MOD (30" X 30")

4a — Fleet Ave — D3-1-48 — DETOUR — M4-H9R-30

4b — Fleet Ave — D3-1-48 — DETOUR — M4-H9L-30

5 — Fleet Ave — D3-1-48 — DETOUR — M4-9R-MOD (30" X 30")

6 — Fleet Ave — D3-1-48 — DETOUR — M4-9L-30

7 — Fleet Ave — D3-1-48 — DETOUR — M4-9R-30

8 — ROAD CLOSED — R11-2-48 — MOUNTED ON TYPE III BARRICADE WITH TYPE B FLASHING YELLOW LIGHTS

9 — END DETOUR — M4-8A-24

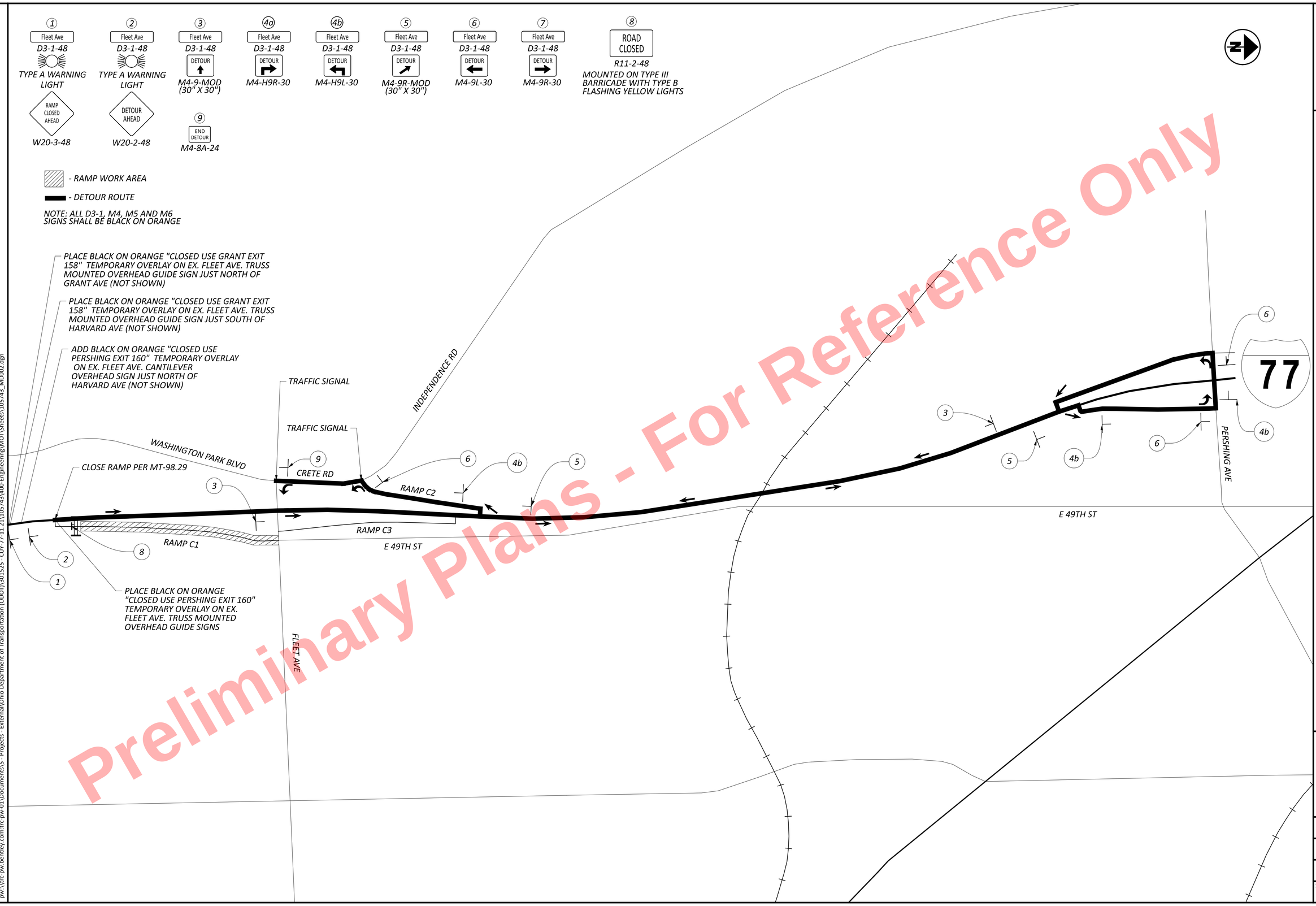
- RAMP WORK AREA
- DETOUR ROUTE

NOTE: ALL D3-1, M4, M5 AND M6 SIGNS SHALL BE BLACK ON ORANGE

PLACE BLACK ON ORANGE "CLOSED USE GRANT EXIT 158" TEMPORARY OVERLAY ON EX. FLEET AVE. TRUSS MOUNTED OVERHEAD GUIDE SIGN JUST NORTH OF GRANT AVE (NOT SHOWN)

PLACE BLACK ON ORANGE "CLOSED USE GRANT EXIT 158" TEMPORARY OVERLAY ON EX. FLEET AVE. TRUSS MOUNTED OVERHEAD GUIDE SIGN JUST SOUTH OF HARVARD AVE (NOT SHOWN)

ADD BLACK ON ORANGE "CLOSED USE PERSHING EXIT 160" TEMPORARY OVERLAY ON EX. FLEET AVE. CANTILEVER OVERHEAD SIGN JUST NORTH OF HARVARD AVE (NOT SHOWN)



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 125 250 500

DETOUR PLAN
FLEET AVE NB EXIT (RAMP C1)

CUY-77-11.41 - PART 1

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DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 05/01/26
PROJECT ID 105743
SHEET P.65 TOTAL P.1269

Preliminary Plans - For Reference Only

1 — Fleet Ave — D3-1-48 — TYPE A WARNING LIGHT — RAMP CLOSED AHEAD — W20-3-48

2 — Fleet Ave — D3-1-48 — TYPE A WARNING LIGHT — DETOUR AHEAD — W20-2-48

3 — Fleet Ave — D3-1-48 — DETOUR — M4-9-MOD (30" X 30")

4a — Fleet Ave — D3-1-48 — DETOUR — M4-H9R-30

4b — Fleet Ave — D3-1-48 — DETOUR — M4-H9L-30

5 — Fleet Ave — D3-1-48 — DETOUR — M4-9R-MOD (30" X 30")

6 — Fleet Ave — D3-1-48 — DETOUR — M4-9L-30

7 — Fleet Ave — D3-1-48 — DETOUR — M4-9R-30

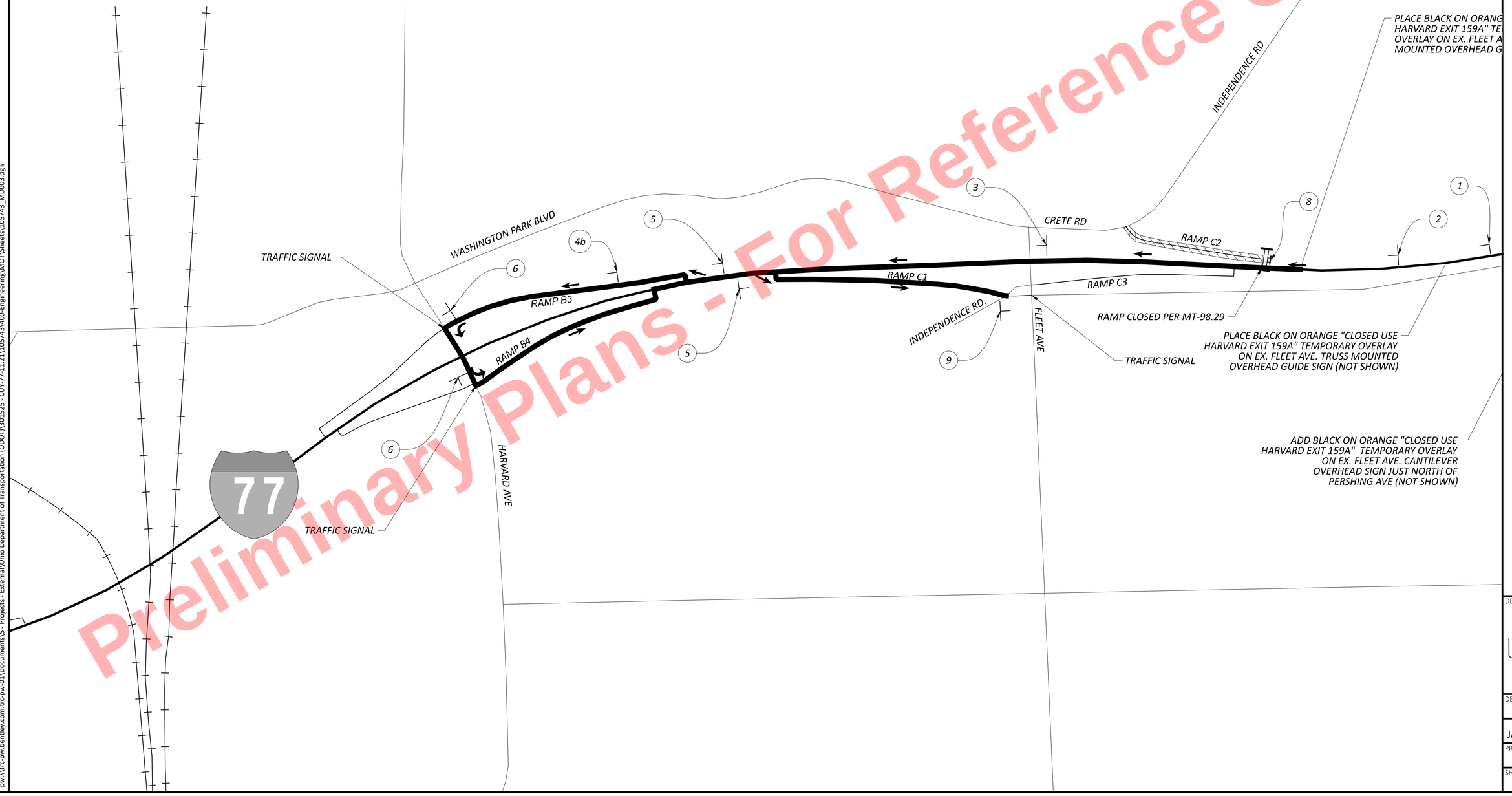
8 — ROAD CLOSED — R11-2-48 — MOUNTED ON TYPE III BARRICADE WITH TYPE B FLASHING YELLOW LIGHTS

9 — END DETOUR — M4-8A-24

- RAMP WORK AREA
- DETOUR ROUTE

NOTE: ALL D3-1, M4, M5 AND M6 SIGNS SHALL BE BLACK ON ORANGE

HORIZONTAL SCALE IN FEET
0 125 250 500



DETOUR PLAN
FLEET AVE SB EXIT (RAMP C2)

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 05/01/26
PROJECT ID 105743
SHEET P.66 TOTAL P.1269

CUY-77-11.41 - PART 1

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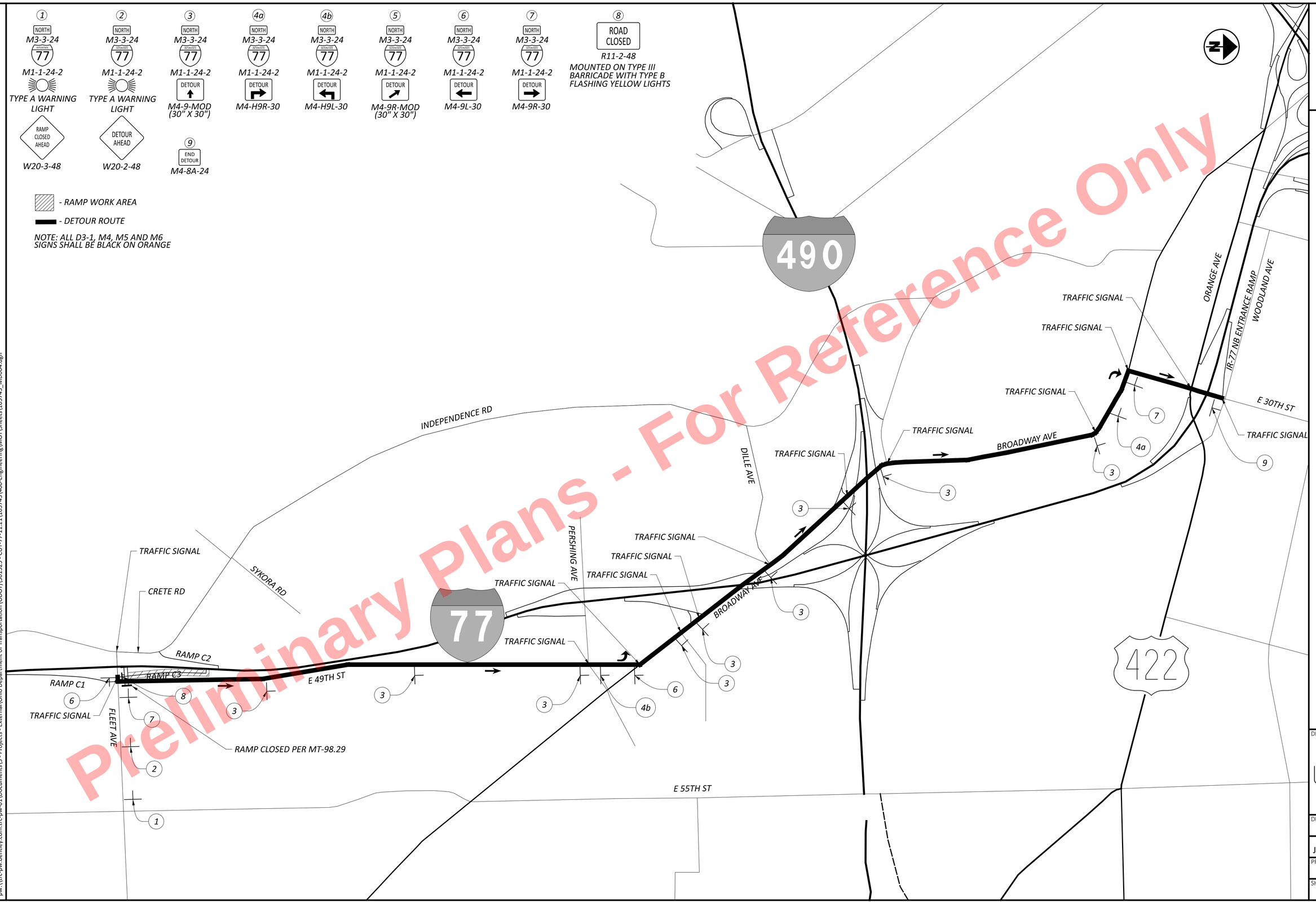

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET 0 125 250 500

DETOUR PLAN
FLEET AVE NB ENTRANCE (RAMP C3)

DESIGN AGENCY: Lanham Engineering LLC

DESIGNER: ANC

REVIEWER: JAR 05/01/26

PROJECT ID: 105743

SHEET: P.67 TOTAL: P.1269

CUY-77-11.41 - PART 1

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1 — Pershing Ave — D3-1-48 — DETOUR — M4-9-MOD (30" x 30")

2 — Pershing Ave — D3-1-48 — DETOUR — M4-H9R-30

3 — Pershing Ave — D3-1-48 — DETOUR — M4-9-30

4 — Pershing Ave — D3-1-48 — DETOUR — M4-9R-MOD (30" x 30")

5 — END DETOUR — M4-8A-24

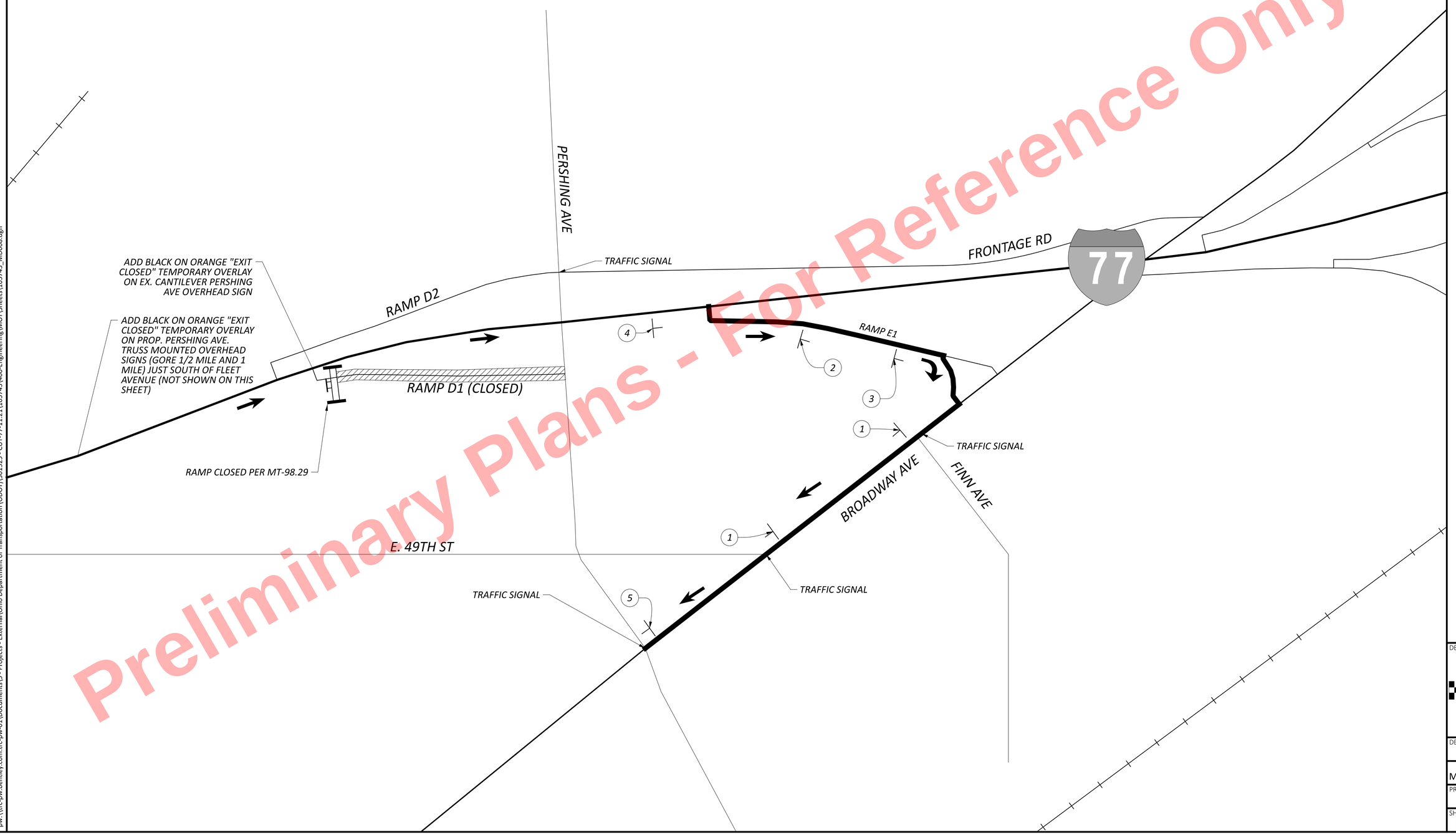
- RAMP WORK AREA

* - ALL D3-1, M4, M5, AND M6 SIGNS SHALL BE BLACK ON ORANGE

- DETOUR ROUTE

N

HORIZONTAL SCALE IN FEET
0 125 250 500



Preliminary Plans - For Reference Only

DETOUR PLAN
PERSHING AVE NB EXIT (RAMP D1)

CUY-77-11.41 - PART 1

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DESIGN AGENCY: HNTB

DESIGNER: EAP

REVIEWER: MTR 05/01/26

PROJECT ID: 105743

SHEET: P.68 TOTAL: P.1269

Preliminary Plans - Not For Reference Only

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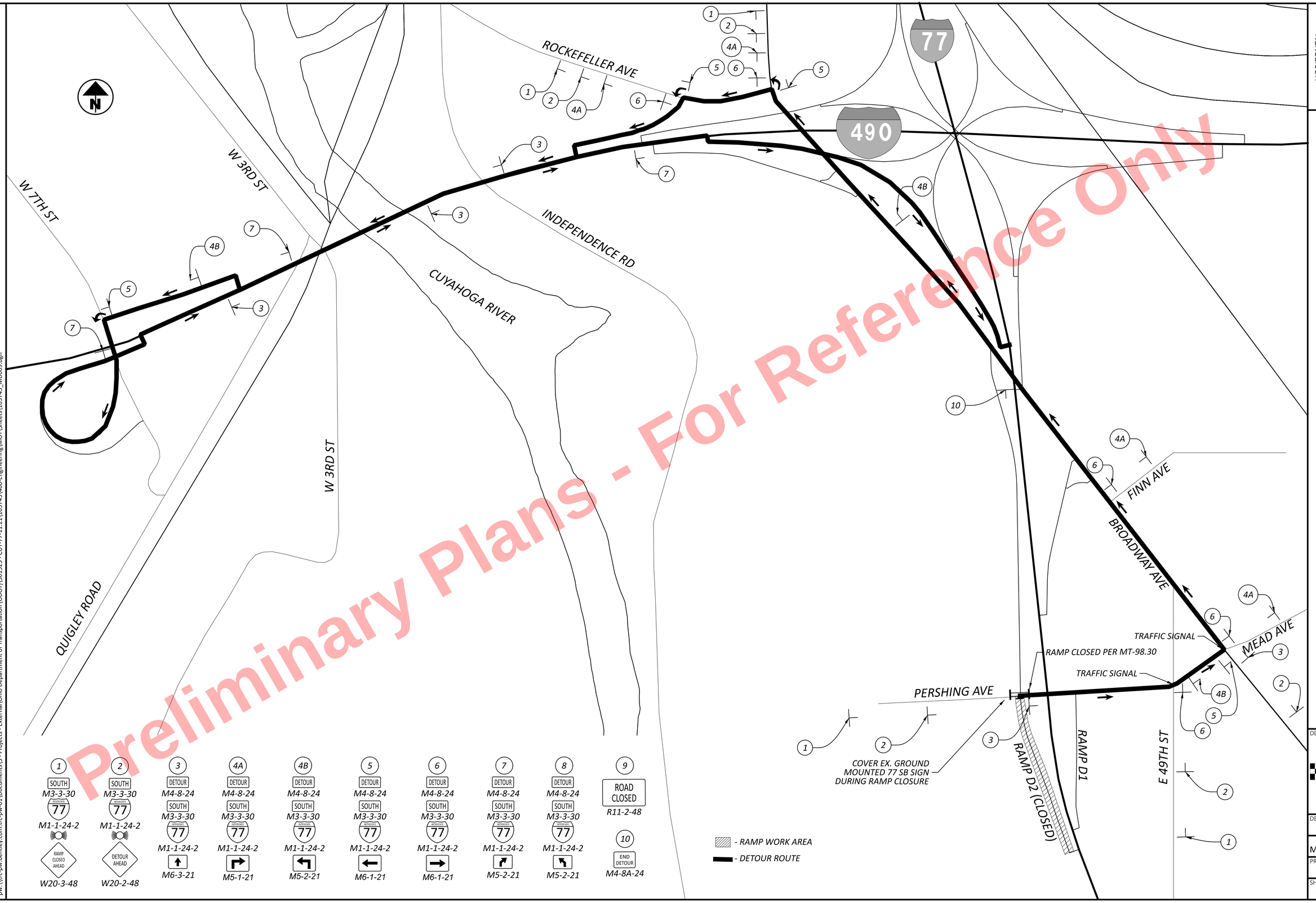

1	2	3	4A	4B	5	6	7	8	9	10
SOUTH M3-3-30 77 M1-1-24-2 RAMP CLOSED AHEAD W20-3-48	SOUTH M3-3-30 77 M1-1-24-2 DETOUR AHEAD W20-2-48	DETOUR M4-8-24 SOUTH M3-3-30 77 M1-1-24-2 M6-3-21	DETOUR M4-8-24 SOUTH M3-3-30 77 M1-1-24-2 M5-1-21	DETOUR M4-8-24 SOUTH M3-3-30 77 M1-1-24-2 M5-2-21	DETOUR M4-8-24 SOUTH M3-3-30 77 M1-1-24-2 M6-1-21	DETOUR M4-8-24 SOUTH M3-3-30 77 M1-1-24-2 M6-1-21	DETOUR M4-8-24 SOUTH M3-3-30 77 M1-1-24-2 M5-2-21	DETOUR M4-8-24 SOUTH M3-3-30 77 M1-1-24-2 M5-2-21	ROAD CLOSED R11-2-48	END DETOUR M4-8A-24

HORIZONTAL SCALE IN FEET
0 125 250 500

DETOUR PLAN
PERSHING AVE ENTRANCE (RAMP D2)

DESIGN AGENCY
HNTB

DESIGNER	EAP
REVIEWER	MTR 05/01/26
PROJECT ID	105743
SHEET	P.69
TOTAL	P.1269

1 — Broadway Ave — D3-1-48 — TYPE A WARNING LIGHT — ROAD CLOSED AHEAD — W20-3-48

2 — Broadway Ave — D3-1-48 — TYPE A WARNING LIGHT — DETOUR AHEAD — W20-2-48

3 — Broadway Ave — D3-1-48 — DETOUR — M4-9-MOD (30" X 30")

4 — Broadway Ave — D3-1-48 — DETOUR — M4-9R-MOD (30" X 30")

5 — Broadway Ave — D3-1-48 — DETOUR — M4-H9R-30

6 — Broadway Ave — D3-1-48 — DETOUR — M4-9R-30

7 — ROAD CLOSED — R11-2-48 MOUNTED ON TYPE III BARRICADE WITH TYPE B FLASHING YELLOW LIGHTS

8 — END DETOUR — M4-8A-12

- RAMP WORK AREA
- DETOUR ROUTE
* - ALL D3-1, M4, M5 AND M6 SIGNS SHALL BE BLACK ON ORANGE

HORIZONTAL SCALE IN FEET
0 50 100 200

ADD BLACK ON ORANGE "CLOSED" TEMPORARY OVERLAY ON EX. TRUSS MOUNTED BROADWAY AVE OVERHEAD SIGN

RAMP D2

PERSHING AVE

77

RAMP CLOSED PER MT-98.29

FRONTAGE RD

RAMP E1 (CLOSED)

ADD BLACK ON ORANGE "CLOSED" TEMPORARY OVERLAY ON EX. TRUSS MOUNTED BROADWAY AVE OVERHEAD SIGN

RAMP D1

ADD BLACK ON ORANGE "EXIT CLOSED" TEMPORARY OVERLAY ON EX. TRUSS MOUNTED BROADWAY AVE OVERHEAD SIGN SOUTH OF FLEET AVE (NOT SHOWN)

E. 49TH ST

BROADWAY AVE

FINN AVE

TRAFFIC SIGNAL

Preliminary Plans - For Reference Only

DETOUR PLAN
BROADWAY AVE (RAMP E1)

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 05/01/26
PROJECT ID 105743
SHEET P.70 TOTAL P.1269

CUY-77-11.41 - PART 1

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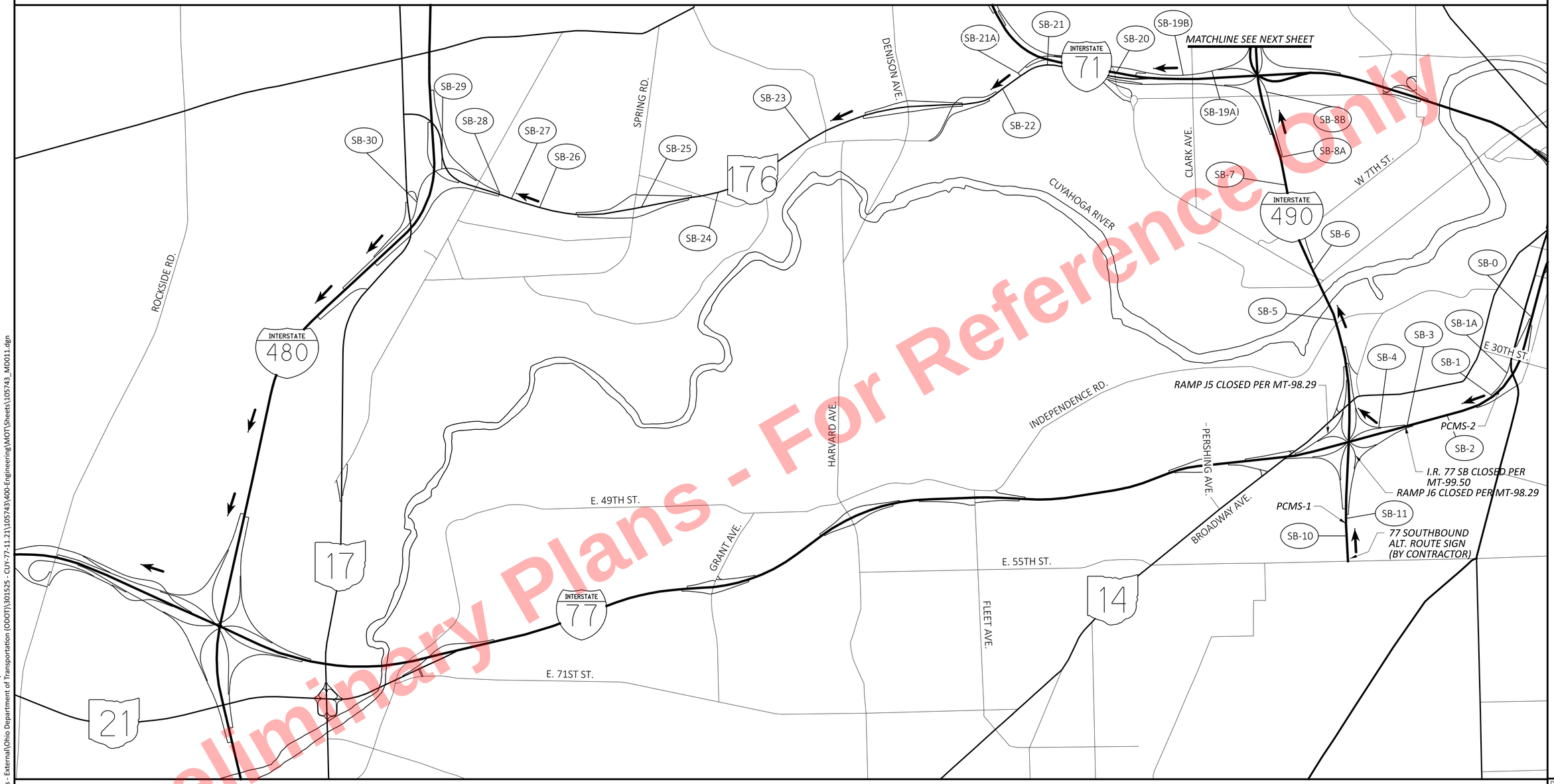

Preliminary Plans - For Reference Only

LEGEND:

→ DIRECTION OF TRAVEL

NOTES:

1. CLOSE I.R. 77 PER STANDARD CONSTRUCTION DRAWING MT-99.50.
2. CLOSE SYSTEM RAMPS PER STANDARD CONSTRUCTION DRAWING MT-98.29.
3. CLOSE SERVICE RAMPS TO 77 SB PER MT-98.30. MAINTAIN LOCAL ACCESS ON PORTIONS OF 77SB THAT WILL NOT HAVE WORK TAKING PLACE PER THE ENGINEER
4. SEE SHEETS P. 62-63 FOR SIGNS.

PORTABLE CHANGEABLE MESSAGE SIGNS RECOMMENDED MESSAGES		
	ALTERNATE ROUTE	
	FLASH 1	FLASH 2
PCMS-1	I.R. 77 SB CLOSED	USE I.R. 490 WEST
PCMS-2	I.R. 77 SB CLOSED	USE I.R. 490 WEST

DETOUR PLAN
I.R. 77 SOUTHBOUND FULL CLOSURE

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 05/01/26
PROJECT ID 105743
SHEET P.71 TOTAL P.1269

CUY-77-11.41 - PART 1

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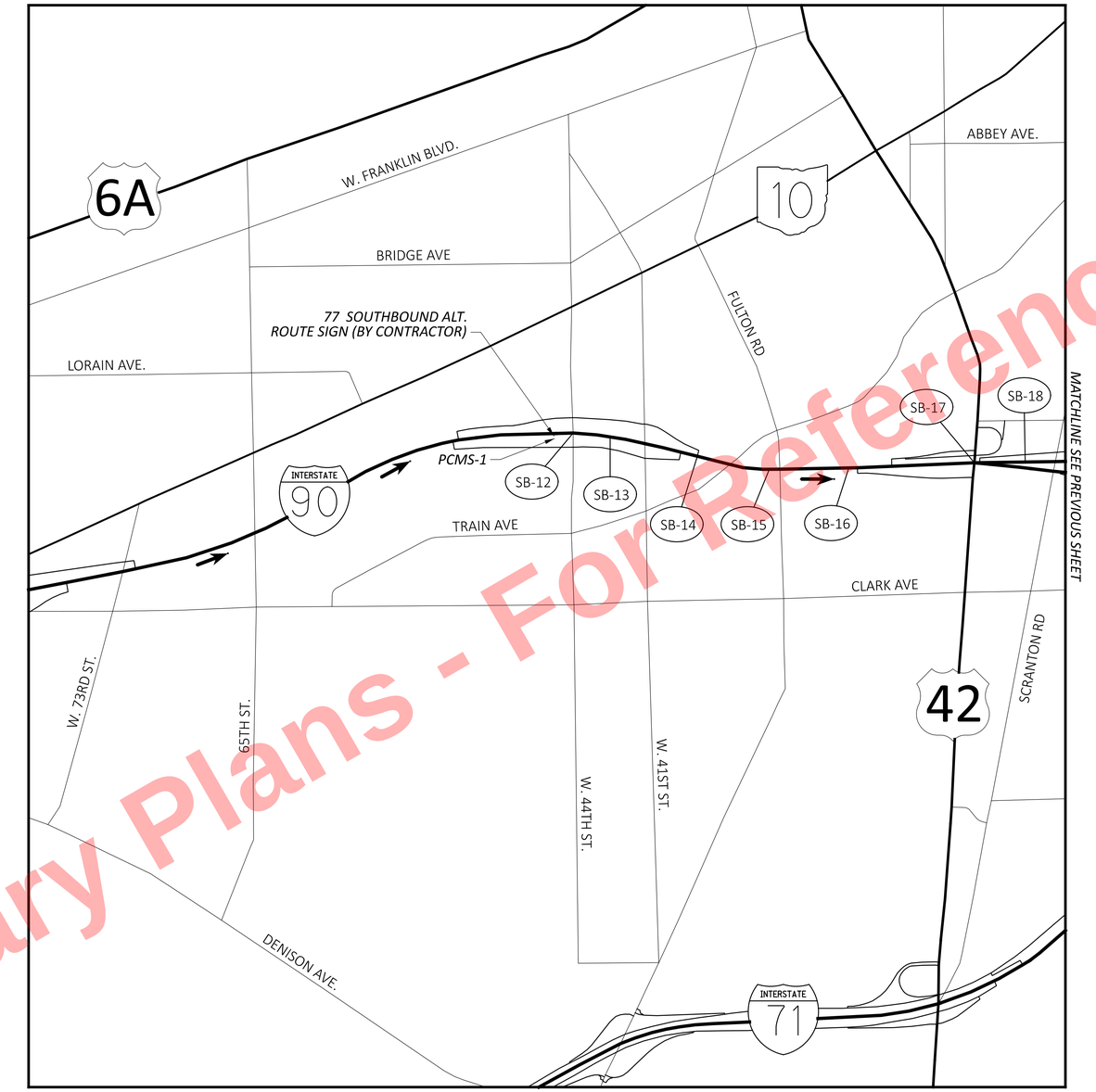

Preliminary Plans - For Reference Only

LEGEND:

→ DIRECTION OF TRAVEL

NOTES:

1. CLOSE I.R. 77 PER STANDARD CONSTRUCTION DRAWING MT-99.50.
2. CLOSE RAMPS PER STANDARD CONSTRUCTION DRAWING MT-98.29.
3. SEE SHEETS P. 62-63 FOR SIGNS.

PORTABLE CHANGEABLE MESSAGE SIGNS RECOMMENDED MESSAGES		
	ALTERNATE ROUTE	
	FLASH 1	FLASH 2
PCMS-1	I.R. 77 SB CLOSED	USE I.R. 71/SR176 SOUTH

DETOUR PLAN
I.R. 77 SOUTHBOUND FULL CLOSURE

DESIGN AGENCY: HNTB

DESIGNER: SJT

REVIEWER: KKP 05/01/26

PROJECT ID: 105743

SHEET: P.72 TOTAL: P.1269

CUY-77-11.41 - PART 1

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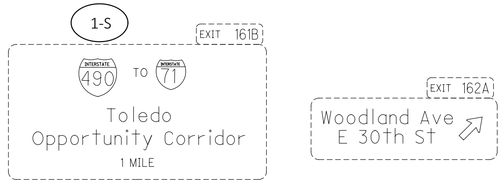
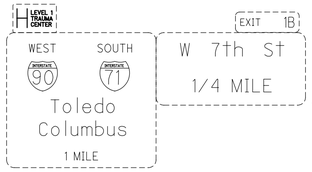


SB-0



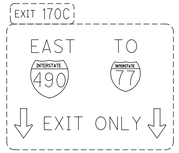
SB-5

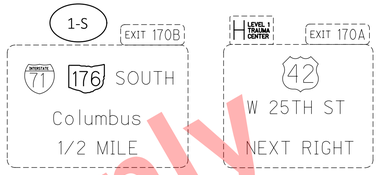


ATTACH 1-S TO VERTICAL UPRIGHT OF EX. TRUSS



SB-10





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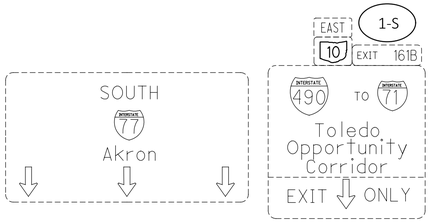

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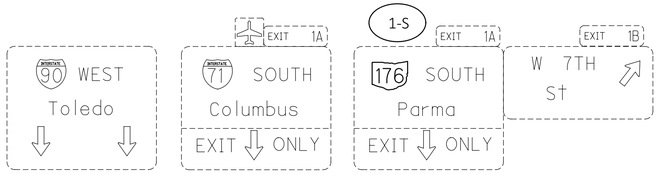

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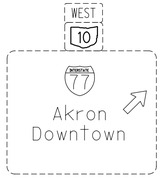

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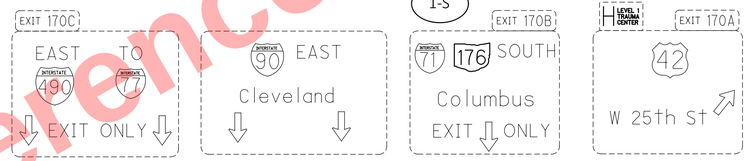

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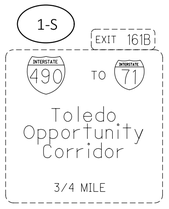

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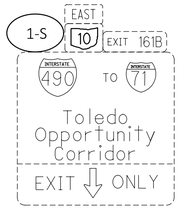

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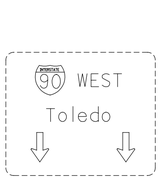

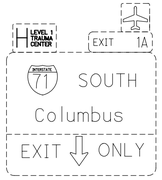

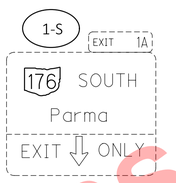

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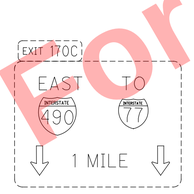
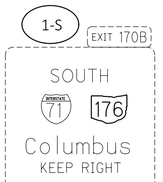
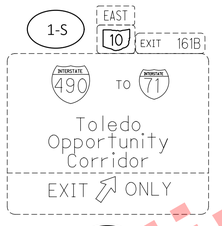






SB-12



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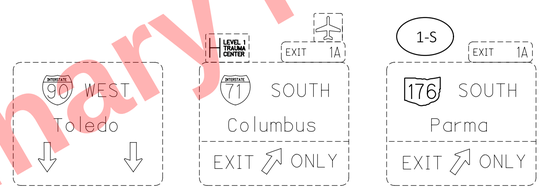
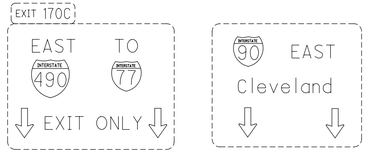


SB-8A

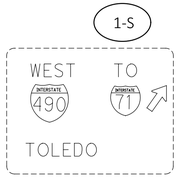


SB-13



SB-17





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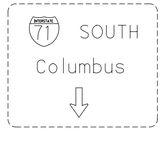

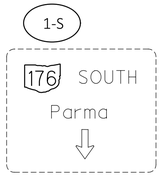

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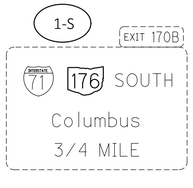

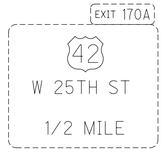

SB-14

LEGEND

1-S = ALT M4-1A-36; SOUTH M3-3-36; INTERSTATE 77 M1-1-36-2

Preliminary Plans - For Reference Only

DETOUR SIGNAGE
I.R. 77 SOUTHBOUND FULL CLOSURE

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 05/01/26
PROJECT ID 105743
SHEET P.73 TOTAL P.1269

CUY-77-11.41 - PART 1

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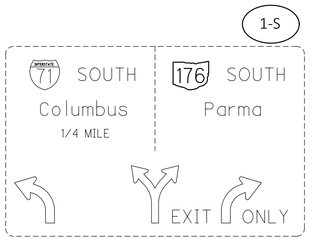
SB-18



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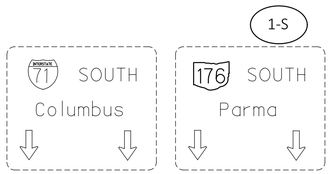

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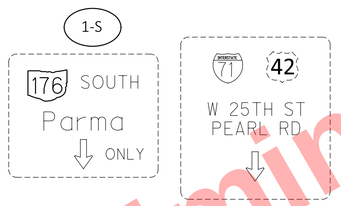

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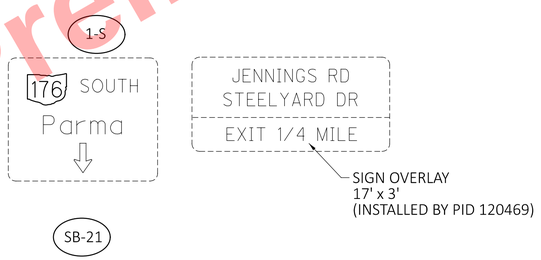

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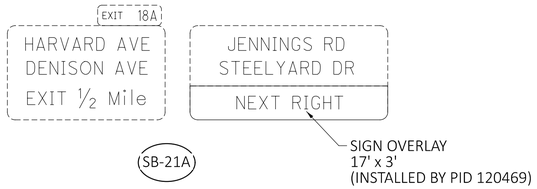

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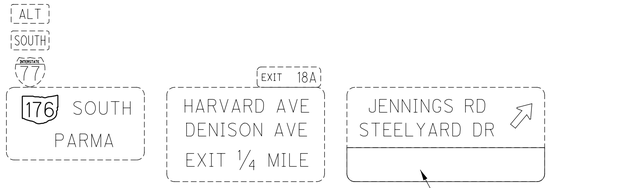

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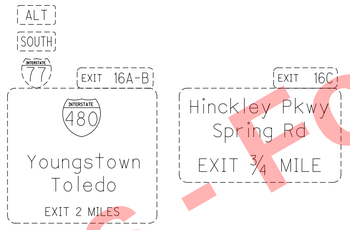

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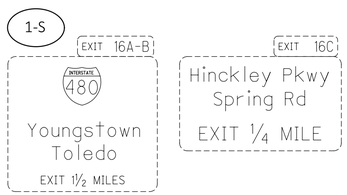

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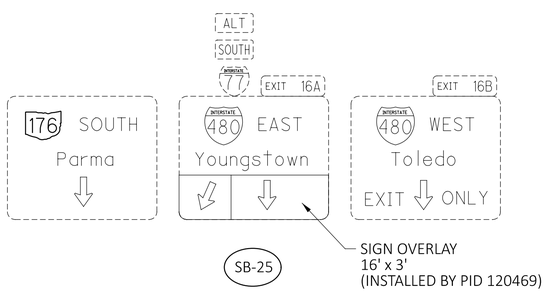

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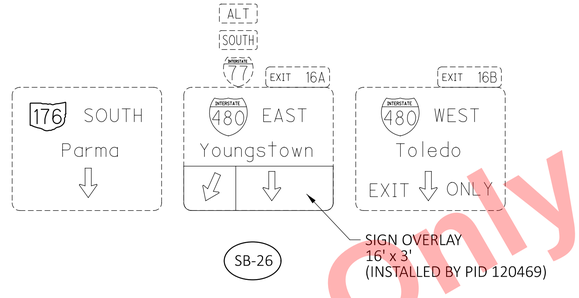

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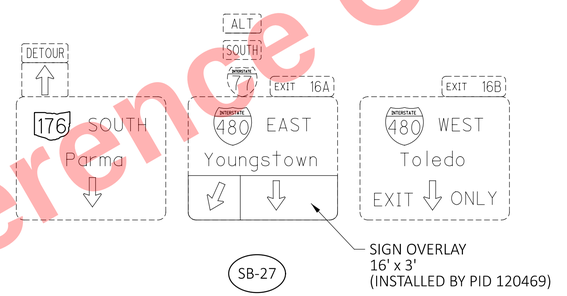

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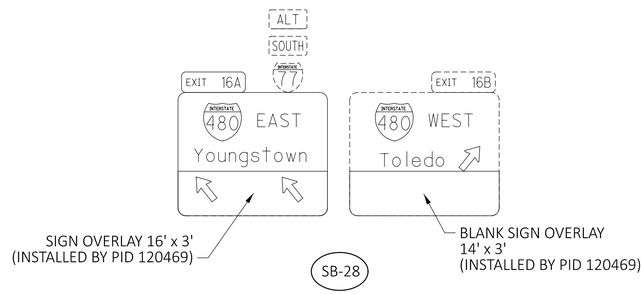

SB-28



SB-29



SB-30

LEGEND

1-S =	ALT	M4-1A-36
	SOUTH	M3-3-36
	INTERSTATE 77	M1-1-36-2

Preliminary Plans - For Reference Only

DETOUR SIGNAGE
I.R. 77 SOUTHBOUND FULL CLOSURE

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 05/01/26
PROJECT ID 105743
SHEET P.74 TOTAL P.1269

CUY-77-11.41 - PART 1

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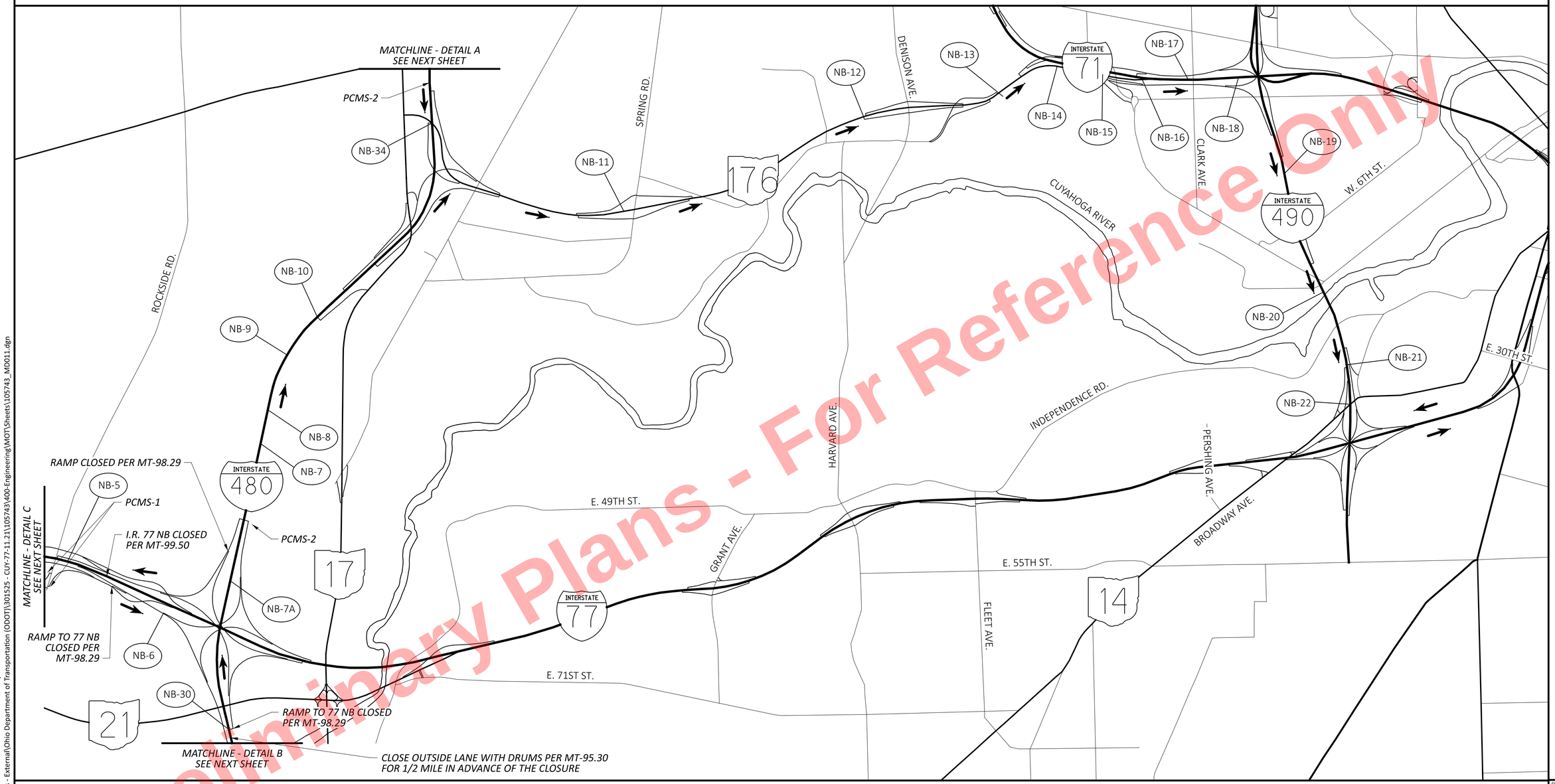

Preliminary Plans - For Reference Only

LEGEND:

DIRECTION OF TRAVEL

NOTES:

1. CLOSE I.R. 77 PER STANDARD CONSTRUCTION DRAWING MT-99.50.
2. CLOSE RAMPS PER STANDARD CONSTRUCTION DRAWING MT-98.29.
3. CLOSE SERVICE RAMPS TO 77 SB PER MT-98.30 MAINTAIN LOCAL ACCESS ON PORTIONS OF 77SB THAT WILL NOT HAVE WORK TAKING PLACE PER THE ENGINEER
4. SEE SHEETS P. 66-68 FOR SIGNS.

PORTABLE CHANGEABLE MESSAGE SIGNS RECOMMENDED MESSAGES		
	ALTERNATE ROUTE	
	FLASH 1	FLASH 2
PCMS-1	I.R. 77 NB CLOSED	USE I.R. 480 WEST
PCMS-2	I.R. 77 NB CLOSED	USE S.R. 176 NORTH

DETOUR PLAN
I.R. 77 NORTHBOUND FULL CLOSURE

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 05/01/26
PROJECT ID 105743
SHEET P.75 TOTAL P.1269

CUY-77-11.41 - PART 1

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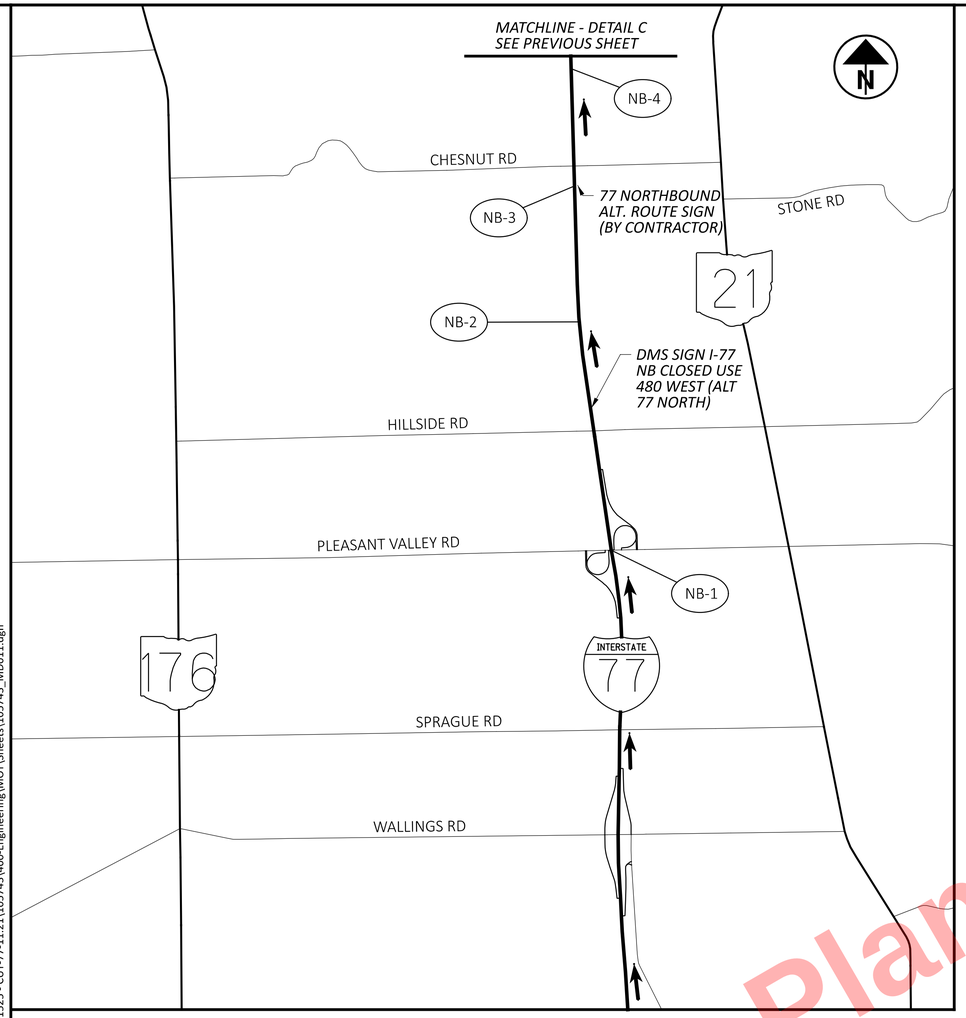

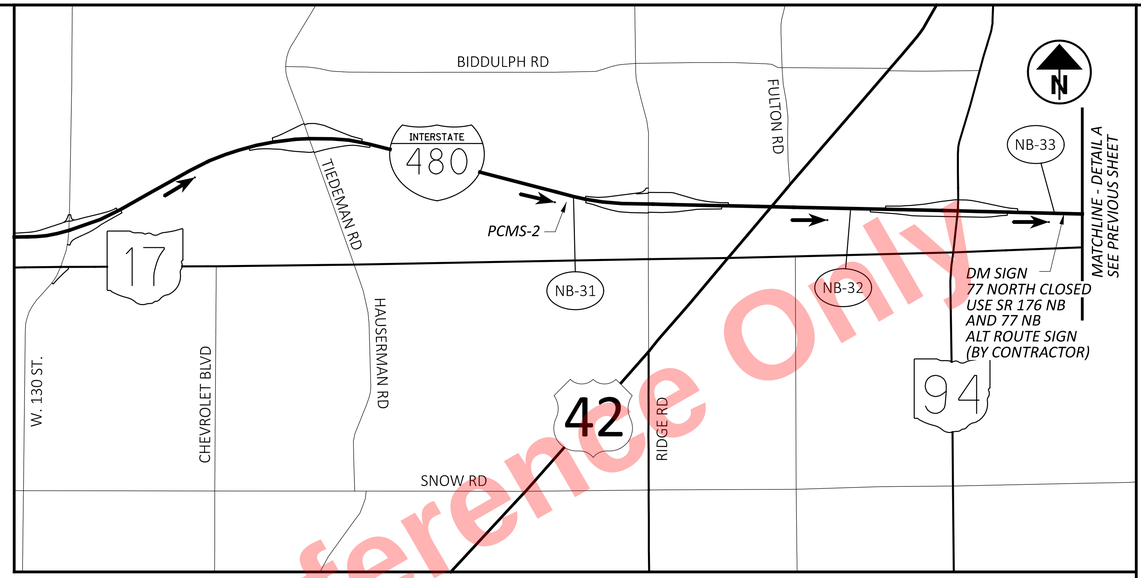

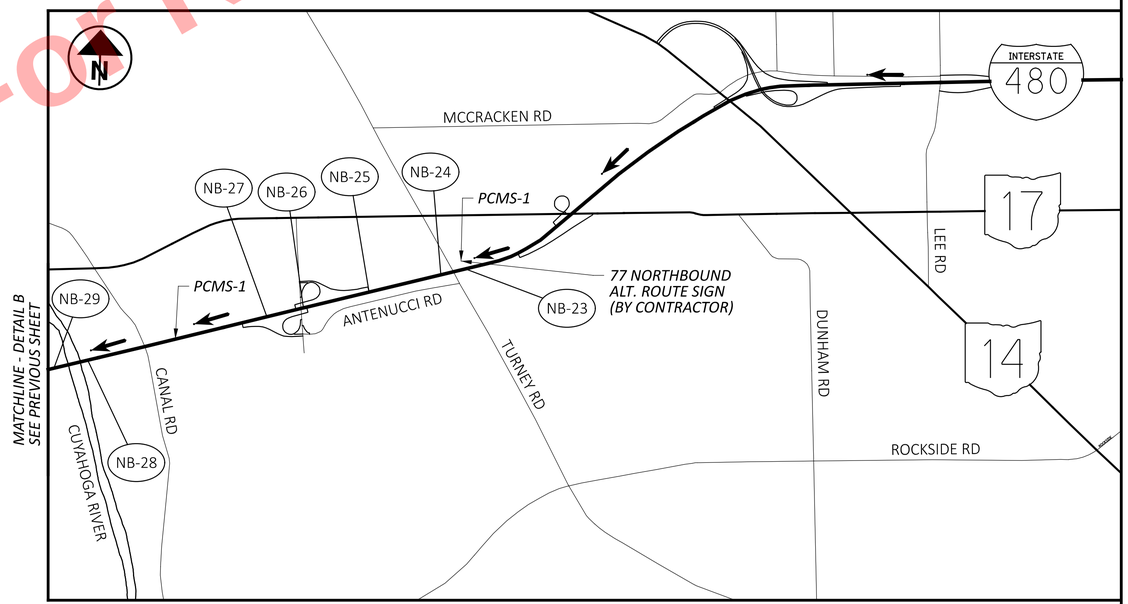

LEGEND:

→ DIRECTION OF TRAVEL

NOTES:

1. CLOSE I.R. 77 PER STANDARD CONSTRUCTION DRAWING MT-99.50.
2. CLOSE RAMPS PER STANDARD CONSTRUCTION DRAWING MT-98.29.
3. SEE SHEETS P. 66-68 FOR SIGNS.

PORTABLE CHANGEABLE MESSAGE SIGNS RECOMMENDED MESSAGES		
	ALTERNATE ROUTE	
	FLASH 1	FLASH 2
PCMS-1	I.R. 77 NB CLOSED	USE I.R. 480 WEST
PCMS-2	I.R. 77 NB CLOSED	USE S.R. 176 NORTH

Preliminary Plans - For Reference Only

DETOUR PLAN
I.R. 77 NORTHBOUND FULL CLOSURE

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 05/01/26
PROJECT ID 105743
SHEET P.76 TOTAL P.1269

CUY-77-11.41 - PART 1

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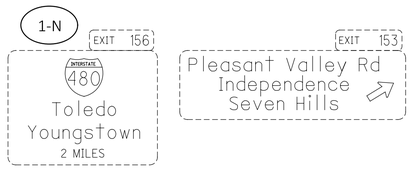
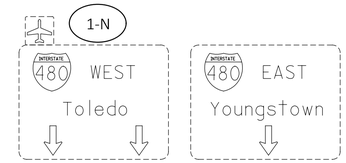
Preliminary Plans - For Reference Only



NB-1



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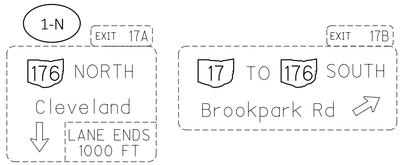

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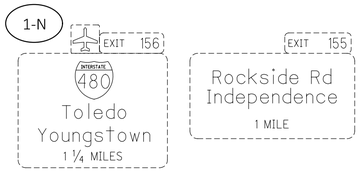

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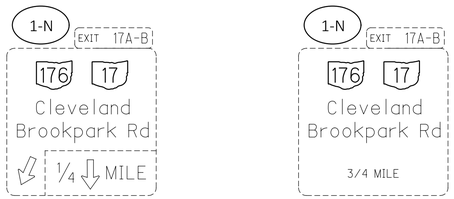
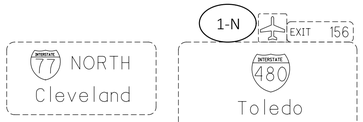


NB-7

NB-7A



NB-11



NB-3



NB-8

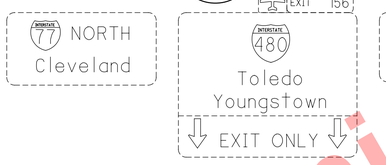




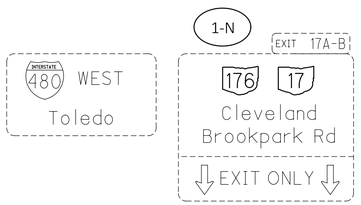




NB-12



NB-4



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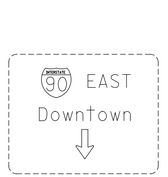


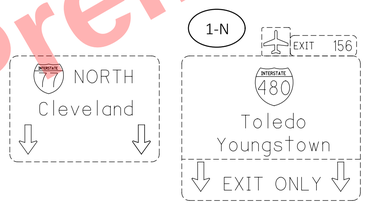






SIGN OVERLAY
17' x 3'
(INSTALLED BY PID 120469)

NB-13



NB-5

LEGEND

ALT — M4-1A-36

1-N = NORTH — M3-3-36

INTERSTATE 77 — M1-1-36-2

DETOUR SIGNAGE
NORTHBOUND FULL CLOSURE
I.R. 77 NORTH

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 05/01/26
PROJECT ID 105743
SHEET P.77 TOTAL P.1269

CUY-77-11.41 - PART 1

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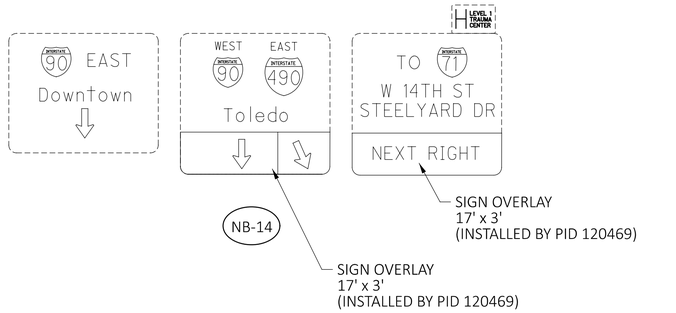

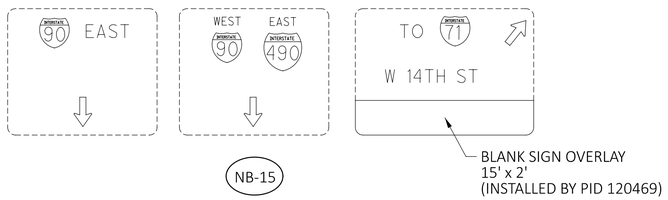

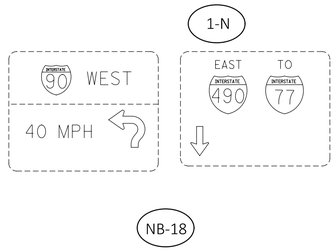

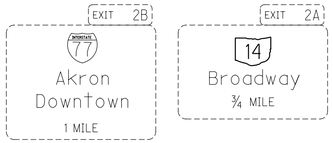

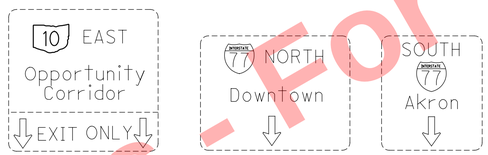

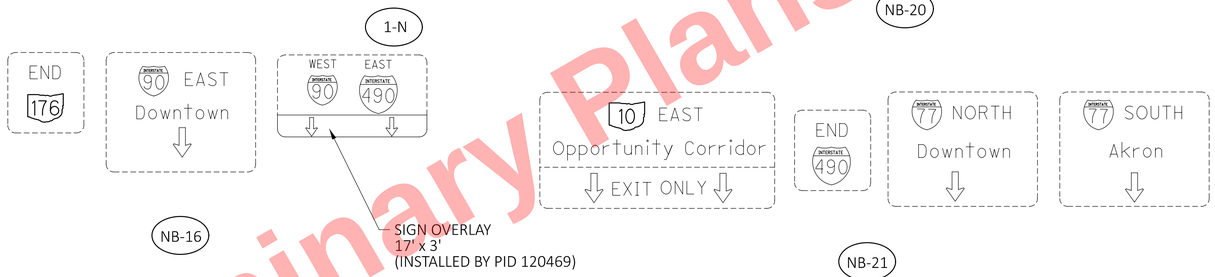

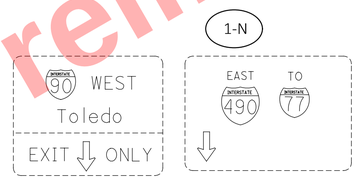





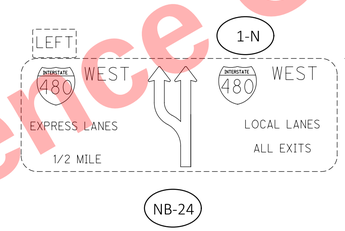

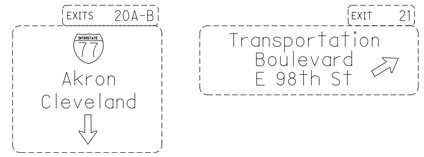

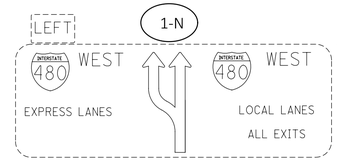



LEGEND

	ALT	M4-1A-36
1-N =	NORTH	M3-1-36
	INTERSTATE 77	M1-1-36-2

Preliminary Plans - For Reference Only

DETOUR SIGNAGE
I.R. 77 NORTHBOUND FULL CLOSURE
I.R.

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 05/01/26
PROJECT ID 105743
SHEET P.78 TOTAL P.1269

CUY-77-11.41 - PART 1

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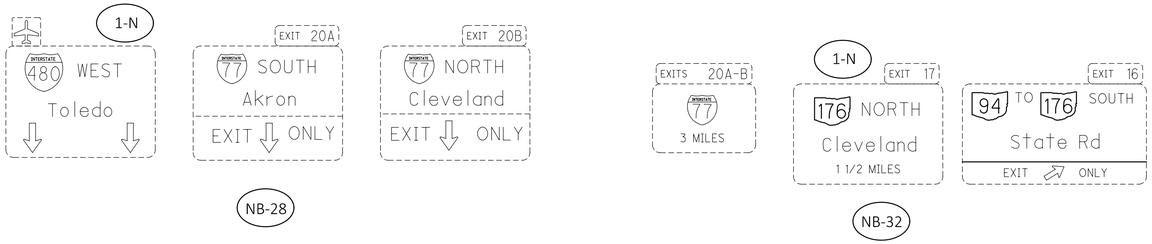
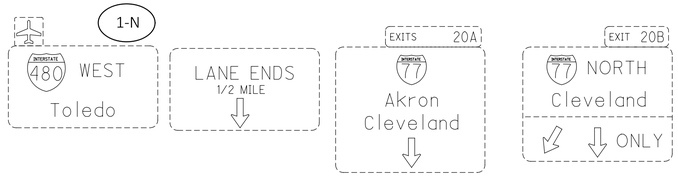
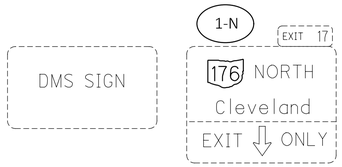


NB-28

NB-32



NB-29

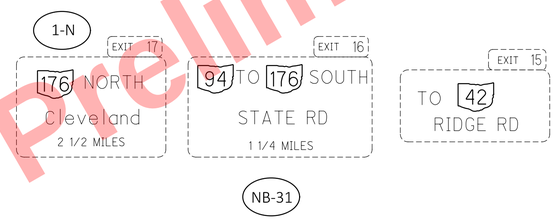


NB-33



NB-30

NB-34



NB-31

Preliminary Plans - For Reference Only

LEGEND

	ALT	M4-1A-36
1-N =	NORTH	M3-1-36
	INTERSTATE 77	M1-1-36-2

DETOUR SIGNAGE
I.R. 77 NORTHBOUND FULL CLOSURE

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 05/01/26
PROJECT ID 105743
SHEET P.79 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:36:14 AM USER: kperkins
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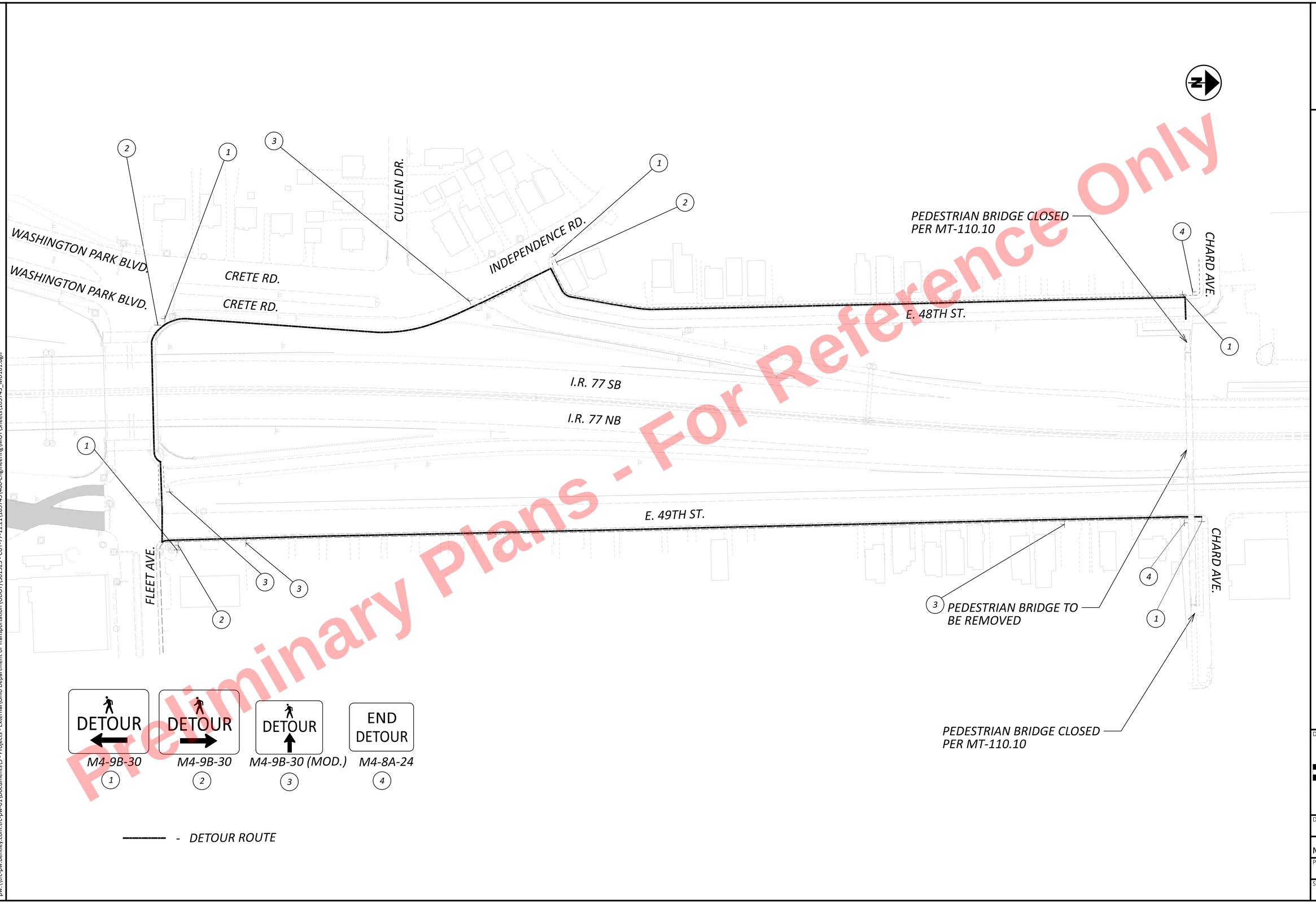

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 30 60 120

DETOUR PLAN
CHARD AVE. - PEDESTRIAN ROUTE

DESIGN AGENCY
HNTB

DESIGNER
AFG

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.80 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Untitled-1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:36:21 AM USER: kperkins
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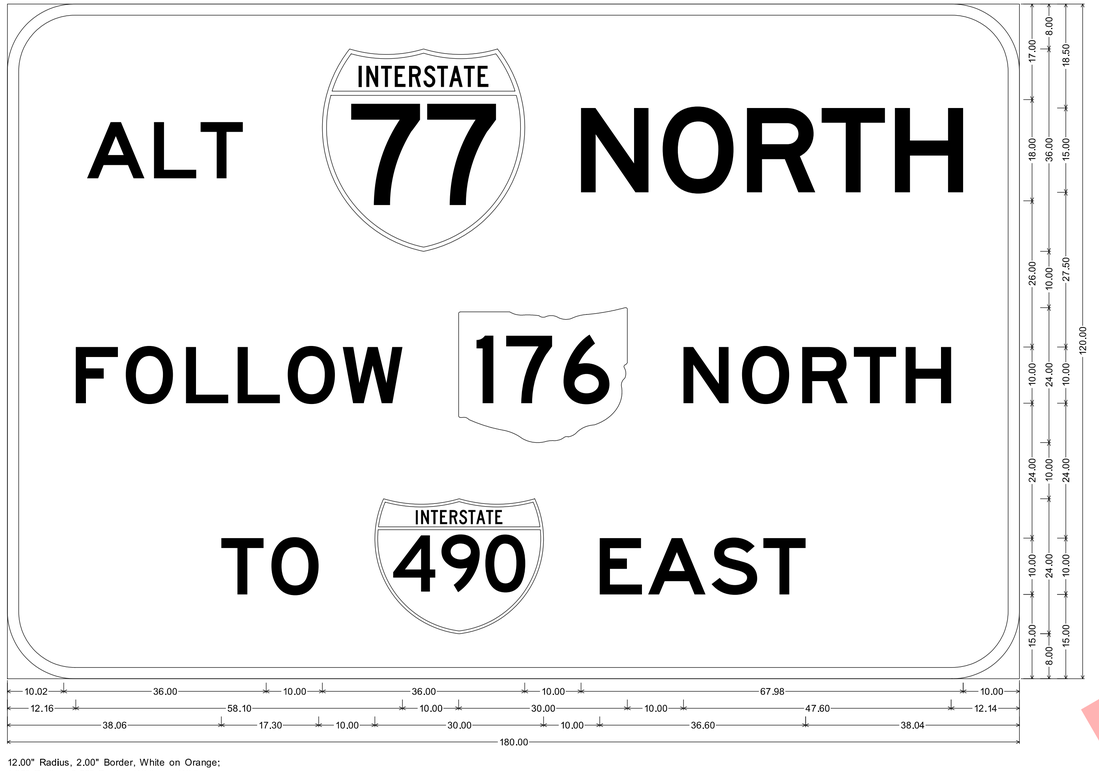
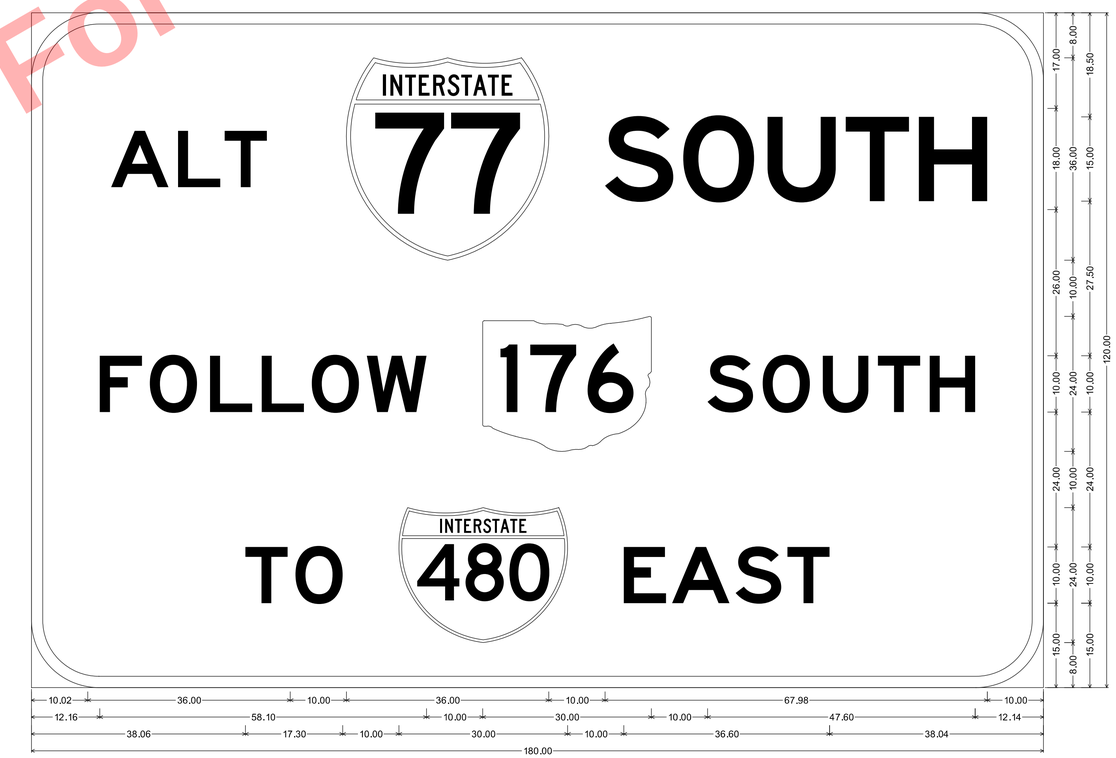
Preliminary Plans - For Reference Only



12.00" Radius, 2.00" Border, White on Orange;
1.25" Radius, 0.50" Border, White on White;
"ALT" Black, E 2K;
Interstate 77 M1-1; "NORTH" Black, E 2K 69% spacing; "FOLLOW" Black, E 2K; State Highway 176 M1-H5-24-3; "NORTH" Black, E 2K; "TO" Black, E 2K; Interstate 490 M1-1; "EAST" Black, E 2K;



12.00" Radius, 2.00" Border, White on Orange;
1.25" Radius, 0.50" Border, White on White;
"ALT" Black, E 2K;
Interstate 77 M1-1; "SOUTH" Black, E 2K 69% spacing; "FOLLOW" Black, E 2K; State Highway 176 M1-H5-24-3; "SOUTH" Black, E 2K; "TO" Black, E 2K; Interstate 480 M1-1; "EAST" Black, E 2K;

MAINTENANCE OF TRAFFIC SIGN DETAILS
ALTERNATE ROUTE ADVANCED SIGNAGE

DESIGN AGENCY

DESIGNER
ODOT

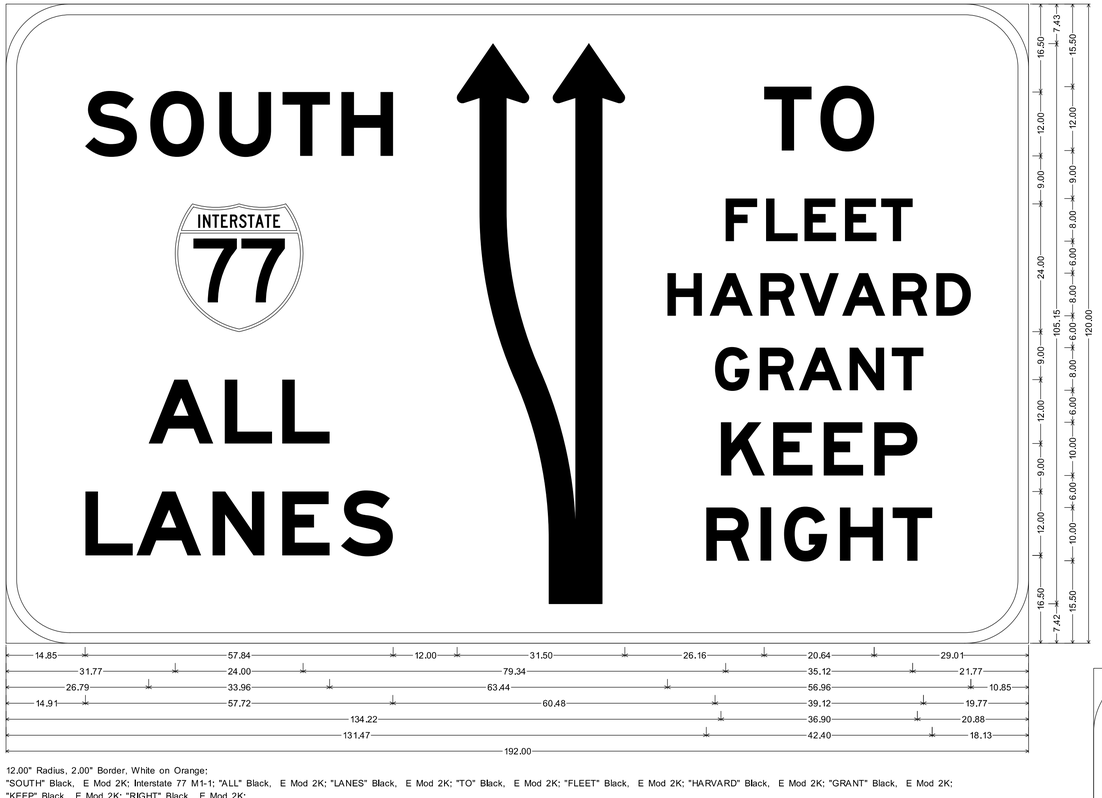
REVIEWER
ODOT

PROJECT ID
105743

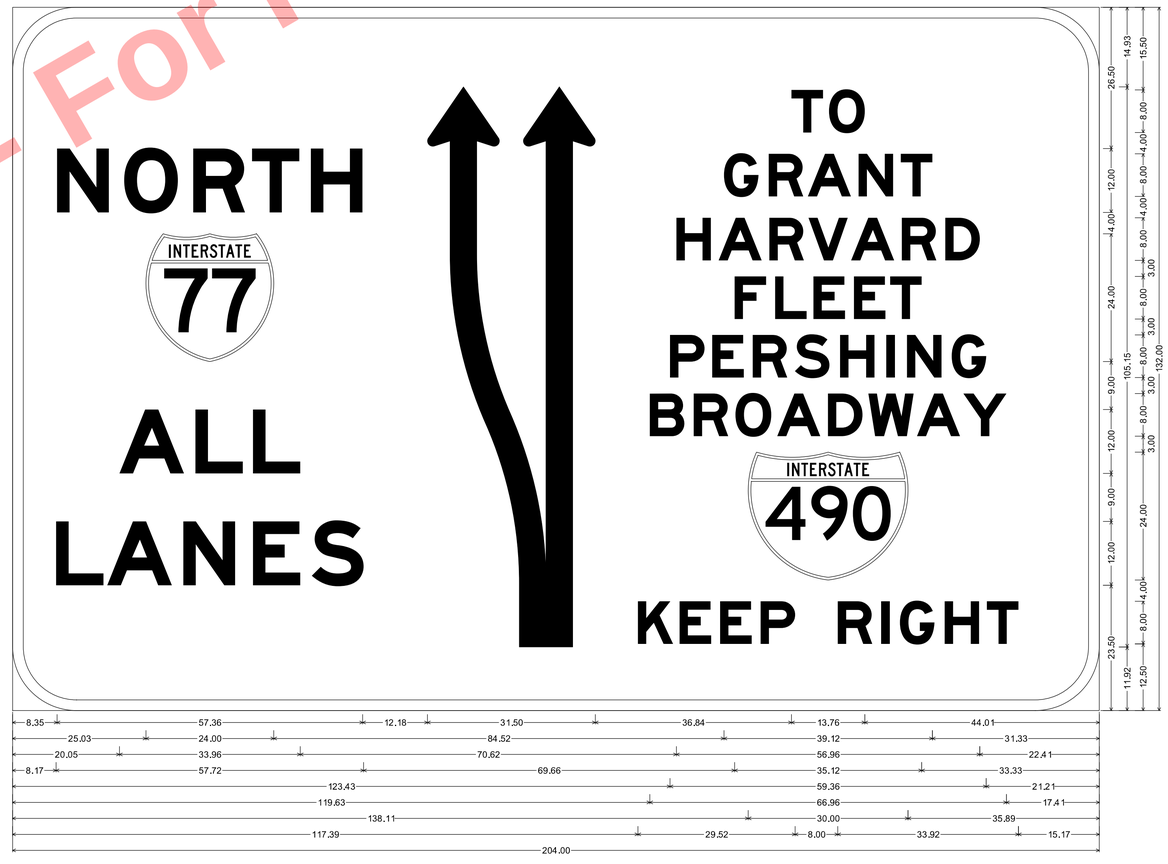
SHEET P.81 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Unnamed Plan - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:36:30 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MN002.dgn



12.00" Radius, 2.00" Border, White on Orange;
"SOUTH" Black, E Mod 2K; Interstate 77 M1-1; "ALL" Black, E Mod 2K; "LANES" Black, E Mod 2K; "TO" Black, E Mod 2K; "FLEET" Black, E Mod 2K; "HARVARD" Black, E Mod 2K; "GRANT" Black, E Mod 2K;
"KEEP" Black, E Mod 2K; "RIGHT" Black, E Mod 2K;



12.00" Radius, 2.00" Border, White on Orange;
"NORTH" Black, E Mod 2K; Interstate 77 M1-1; "ALL" Black, E Mod 2K; "LANES" Black, E Mod 2K; "TO" Black, E Mod 2K; "GRANT" Black, E Mod 2K; "HARVARD" Black, E Mod 2K; "FLEET" Black, E Mod 2K;
"PERSHING" Black, E Mod 2K; "BROADWAY" Black, E Mod 2K; Interstate 490 M1-1; "KEEP RIGHT" Black, E Mod 2K;

Preliminary Plans - For Reference Only

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MAINTENANCE OF TRAFFIC SIGN DETAILS
CONTRAFLOW DIAGRAMMATIC SIGNAGE

DESIGN AGENCY
HNTB

DESIGNER MTR
REVIEWER MJW 05/01/26
PROJECT ID 105743
SHEET P.82 TOTAL P.1269

MODEL: Unnamed Plan - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:36:40 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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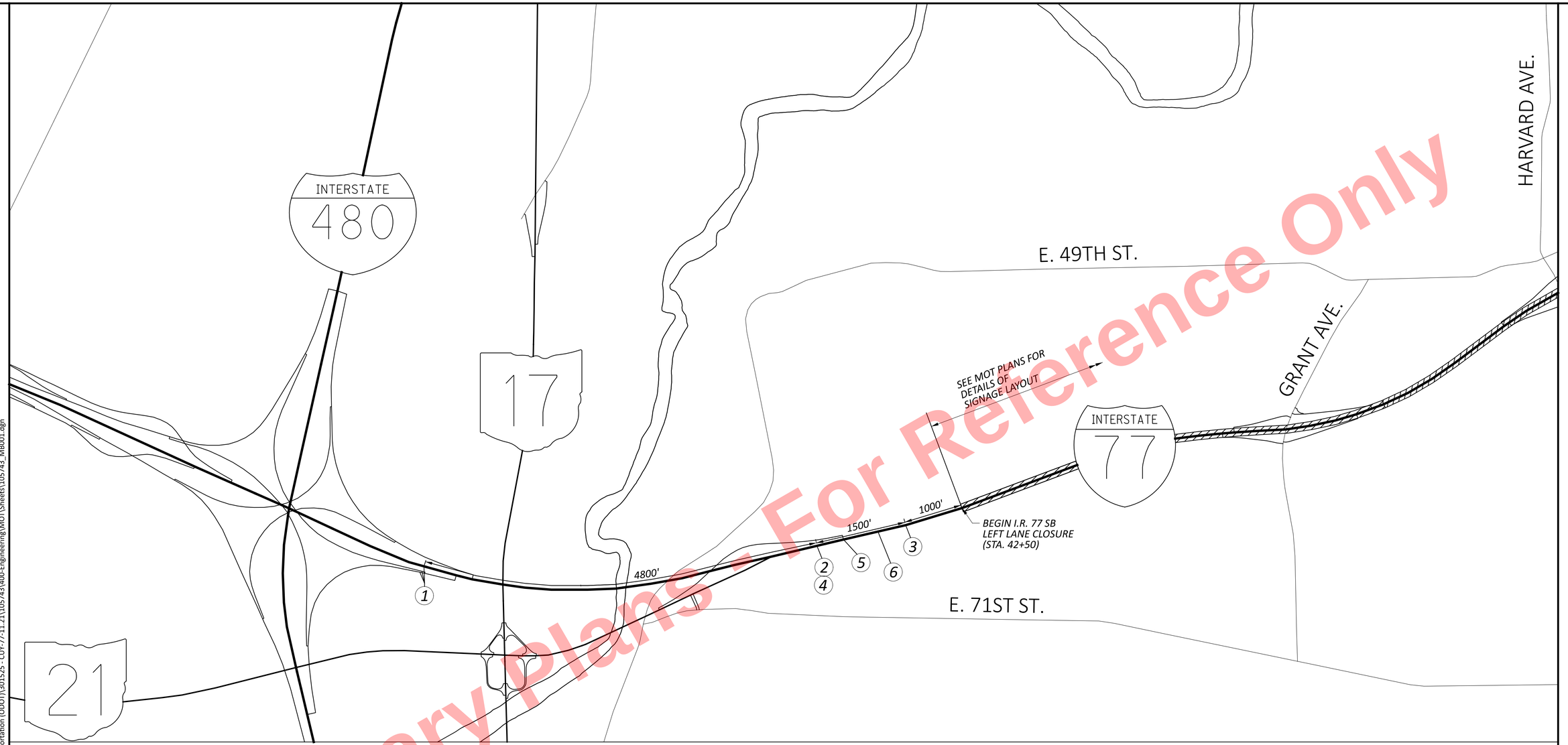

Preliminary Plans - For Reference Only

1
TYPE A WARNING LIGHT
ROAD WORK AHEAD
W20-1-48
1 MILE
W16-3aP-30
(PRE-PHASE 1 THRU PHASE 3)
*-6 TOTAL SIGNS NEEDED TO MOUNT ON BOTH SIDES OF I-77 NB, AND THE 480 EB AND WB RAMPS)

2
TYPE A WARNING LIGHT
LEFT LANE CLOSED AHEAD
W20-5-48
(PHASE 1 THRU 3)

3
TYPE A WARNING LIGHT
W4-2L-48
(PHASE 1 THRU 3)
RIGHT SHOULDER CLOSED
W21-5a-48
(PRE-PHASE 1)

4
INTERSTATE 77
NORTH
ALL LANES
(PHASE 3)
LEVEL 1 SIGN (10'x6')
WOOD BEAMS PER MT-105.10

5
WORK ZONE
SPEEDING
FINES DOUBLED
CAUSE DEATH OR INJURY
FINE/JAIL
R11-H5a-48
(PRE-PHASE 1 THRU PHASE 3)

6
TRUCKS USE RIGHT LANE
R4-5-48
(PRE-PHASE 1 THRU PHASE 3)

NOTE: SEE STANDARD DRAWINGS MT-95.40 AND MT-95.72 FOR MORE DETAILS. ALL LEAD IN SIGNAGE SHALL BE MOUNTED ON THE MEDIAN AND ON THE OUTSIDE OF THE HIGHWAY PER THE STANDARD CONSTRUCTION DRAWINGS. IF LIGHT POLES ARE PRESENT THE SIGN MAY BE POLE MOUNTED.

MAINTENANCE OF TRAFFIC - PRE-PHASE 1 THRU PHASE 3
77 NORTHBOUND LEAD IN SIGN SCHEMATIC

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.83 TOTAL P.1269

MODEL: CLP_I077_South - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:36:53 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEx02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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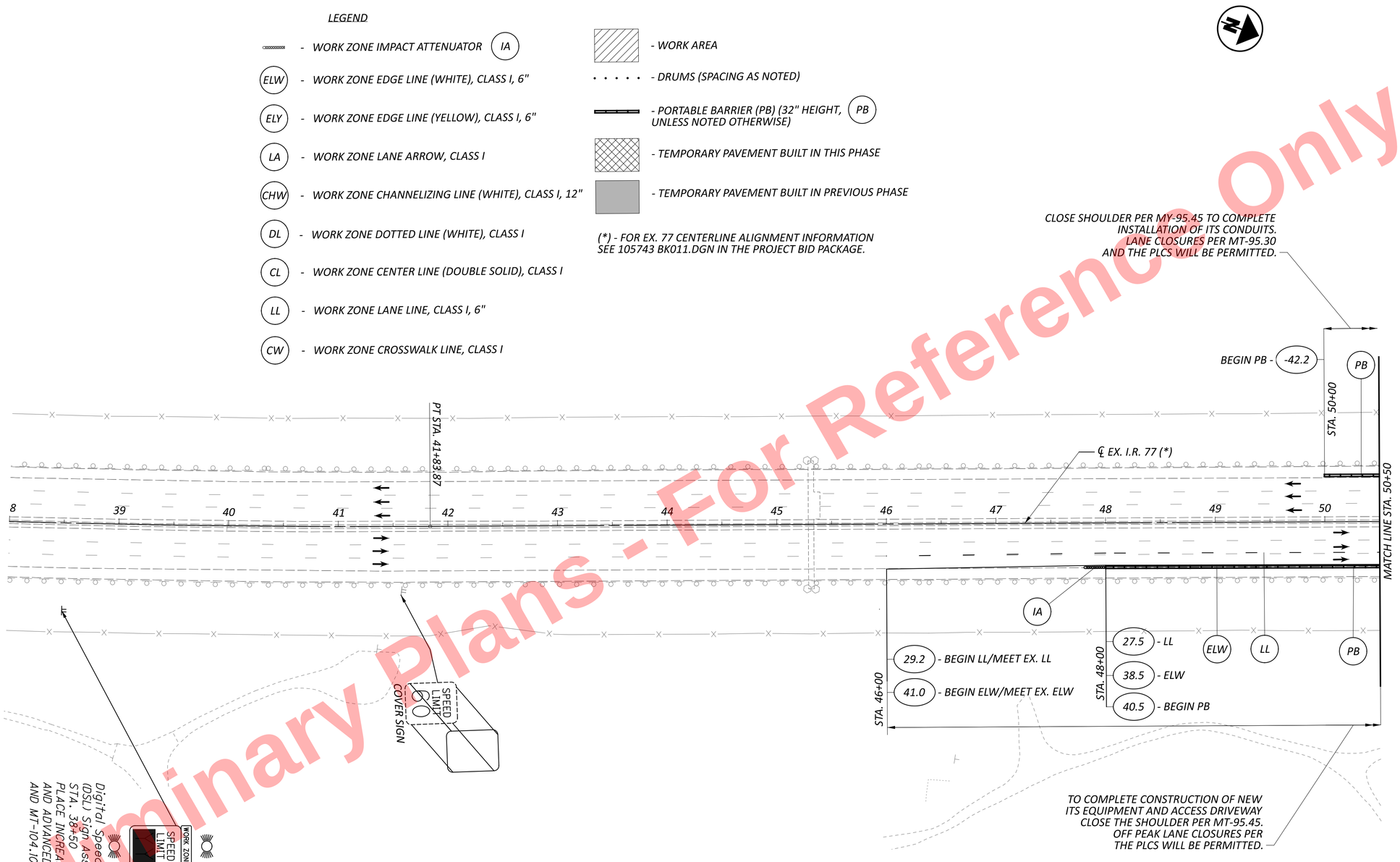
LEGEND

- WORK ZONE IMPACT ATTENUATOR (IA)
- (ELW) - WORK ZONE EDGE LINE (WHITE), CLASS I, 6"
- (ELY) - WORK ZONE EDGE LINE (YELLOW), CLASS I, 6"
- (LA) - WORK ZONE LANE ARROW, CLASS I
- (CHW) - WORK ZONE CHANNELIZING LINE (WHITE), CLASS I, 12"
- (DL) - WORK ZONE DOTTED LINE (WHITE), CLASS I
- (CL) - WORK ZONE CENTER LINE (DOUBLE SOLID), CLASS I
- (LL) - WORK ZONE LANE LINE, CLASS I, 6"
- (CW) - WORK ZONE CROSSWALK LINE, CLASS I

- WORK AREA
- DRUMS (SPACING AS NOTED)
- PORTABLE BARRIER (PB) (32" HEIGHT, UNLESS NOTED OTHERWISE) (PB)
- TEMPORARY PAVEMENT BUILT IN THIS PHASE
- TEMPORARY PAVEMENT BUILT IN PREVIOUS PHASE

(*) - FOR EX. 77 CENTERLINE ALIGNMENT INFORMATION SEE 105743 BK011.DGN IN THE PROJECT BID PACKAGE.



NOTE: SEE SHEET 83 FOR SIGN SCHEMATIC

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PRE-PHASE 1
STA. 38+00 TO STA. 50+50

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.84 TOTAL P.1269

MODEL: CLP_I077_South - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:36:54 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\MOT\Sheets\105743_MP000.dgn

CLOSE SHOULDER PER MY-95.45 TO COMPLETE INSTALLATION OF ITS CONDUITS. LANE CLOSURES PER MT-95.30 AND THE PLCS WILL BE PERMITTED.

SPEED LIMIT 60

PB

℄ EX. I.R. 77

MATCH LINE STA. 50+50

MATCH LINE STA. 63+00

51 52 53 54 55 56 57 58 59 60 61 62

STA. 50+76.86

LL - 27.5

ELW - 38.5

PB - 40.5

STA. 54+10

END PB - 41.2

STA. 55+00

STA. 57+00

28.9 - END LL/MEET EX. LL

40.9 - END ELW/MEET EX. ELW

Grant Ave
Cuyahoga Hts
1/2 MILE

EXIT 5B

CSX

TO COMPLETE CONSTRUCTION OF NEW DMS SIGN AND ACCESS DRIVEWAY CLOSE THE SHOULDER PER MT-95.45. OFF PEAK LANE CLOSURES PER THE PLCS WILL BE PERMITTED.

NOTE: SEE SHEET P.47 FOR MOT TYPICAL SECTION
SEE SHEET P.84 FOR MOT LEGEND

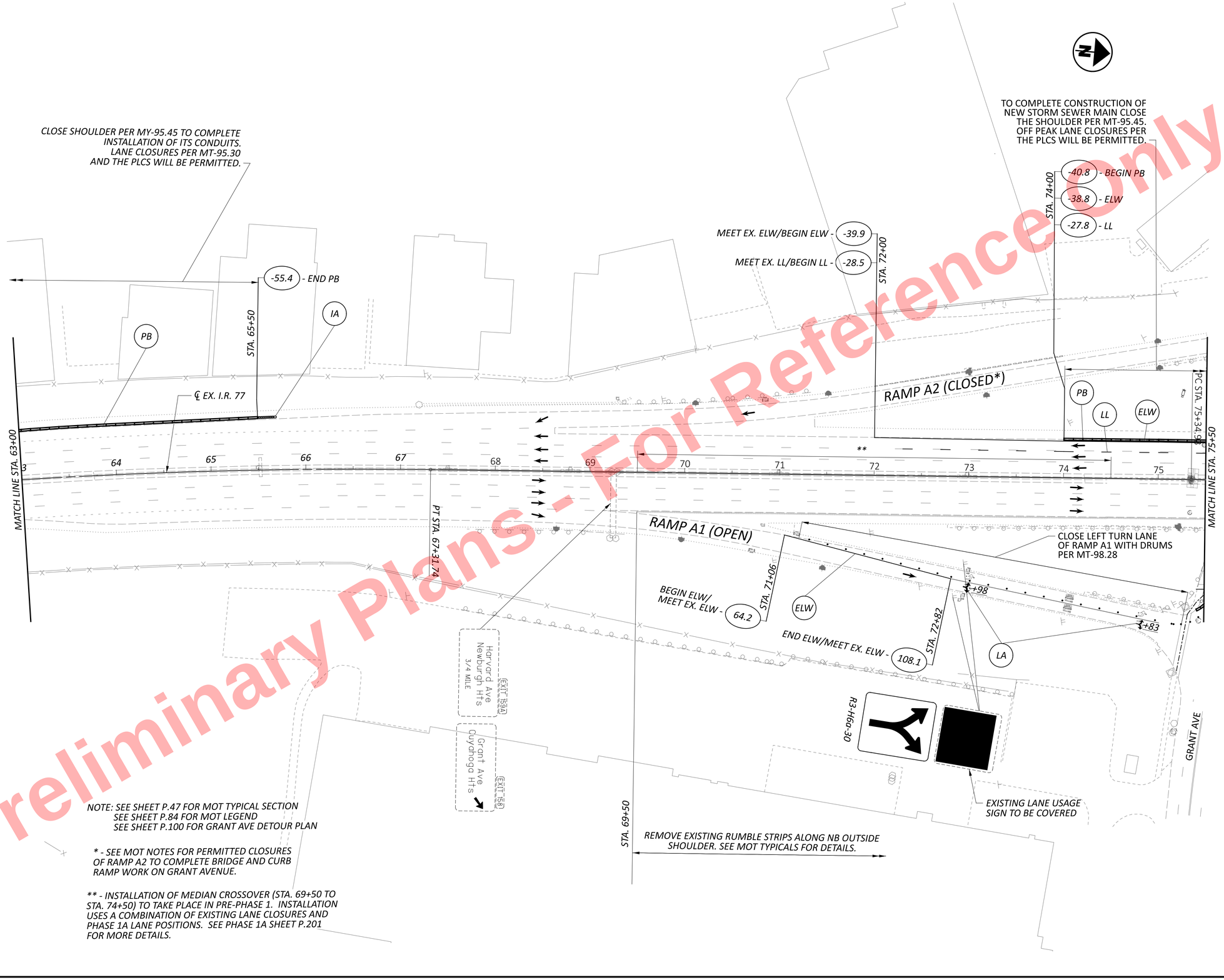
Preliminary plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PRE-PHASE 1
STA. 50+50 TO STA. 63+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.85 TOTAL P.1269



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PRE-PHASE 1
STA. 63+00 TO STA. 75+50

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.86 TOTAL P.1269

MODEL: CLP_I077_South - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:36:55 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEx02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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MODEL: CLP_I077 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:36:57 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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* - CLOSE AND DETOUR RAMP A3 AS SHOWN IN PHASE 1B TO COMPLETE STORM SEWER WORK BETWEEN D12 AND D27. RESTORE THE TRENCH WITH ITEM 615.

CLOSE RAMP A4 PER MT-101.60 AND DETOUR AS SHOWN IN PHASE 3B TO COMPLETE TEMPORARY PAVEMENT WORK.

TO COMPLETE CONSTRUCTION OF NEW STORM SEWER MAIN AND RETAINING WALL CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED.

TO COMPLETE CONSTRUCTION OF NEW STORM SEWER MAIN CLOSE THE MAINLINE AND RAMP SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED.

EXIT 158

Grant EXIT

STA. 84+00 D3-1 (18"x48") E5-H2R BLACK ON ORANGE ON TEMPORARY SUPPORT

PROP. STORM SEWER (SEE DRAINAGE DETAILS)

EX. CURB AND SHOULDER IMPACTED BY STORM SEWER WORK. AFTER COMPLETING THE SEWER RESTORE THE SHOULDER PAVEMENT WITH ITEM 615. CURB WILL NOT BE RESTORED. GRADE A TEMPORARY SWALE PER THE MOT CROSS SECTIONS.

GUARDRAIL IMPACTED BY SEWER WORK.PB AND IA QUANTITY INCLUDED IN MOT SUBSUMMARY TO BE PLACED ONCE SEWER WORK IS COMPLETE (NOT SHOWN)

-116.0 - BEGIN PB

STA. 80+40

PB

RAMP A3 (OPEN*)

℄ EX. I.R. 77

LL

ELW

PLACE CB2-2B TO COLLECT DRAINAGE FROM TEMP SWALE. OUTFALL BASIN TO DA12A

MATCH LINE STA. 75+50

77 78 79 80 81 82 83 84 85 86 87

MATCH LINE STA. 88+00

RAMP A4 (OPEN*)

PLACE CB2-2B TO COLLECT DRAINAGE FROM TEMP SWALE. OUTFALL BASIN TO DA21

EX. CANTILEVER SIGN IMPACTED BY STS WORK. UTILIZE LANE CLOSURES PER THE PLCS TO COMPLETE THE REMOVAL. CONSTRUCT THE NEW CANTILEVER SIGN THIS PHASE. IN THE INTERIM BETWEEN REMOVAL OF EXISTING AND COMPLETION OF PROPOSED. PLACE A GROUND MOUNTED E7-H1 SIGN (BLACK ON ORANGE) WITH WOODEN TEMPORARY SUPPORTS PER MT-105.10. SIGN SHALL INCLUDE A SR 21 ROUTE SHIELD, I.R. 480 ROUTE SHIELD AND DISTANCE TO EACH INTERCHANGE.

EX. SAFETY PATROL SIGN IMPACTED BY SEWER WORK. REMOVE PER THE TRAFFIC CONTROL PLANS.

REMOVE EXISTING RUMBLE STRIPS ALONG NB OUTSIDE SHOULDER (IR77 AND RAMP A4). SEE MOT TYPICALS FOR DETAILS.

NOTE: SEE SHEET P.47 FOR MOT TYPICAL SECTION
SEE SHEET P.84 FOR MOT LEGEND
SEE SHEET P.100 FOR GRANT AVENUE MOT PLAN

**-ITEM 615-PAVEMENT FOR MOT, CLASS A FROM STA. 86+50 TO STA. 91+50 WIDTH IS 6'. WIDTH VARIES FROM 6' TO 4' FROM STA 91+50 TO STA. 93+00

STA. 85+50

-64.0 - BEGIN PB

DA44 IMPACTED BY SEWER WORK ABANDON AND ALLOW DRAINAGE TO CONTINUE SOUTH.

EX. SIGN TRUSS TO REMAIN UNTIL PHASE 1B (SEE TRAFFIC CONTROL PLAN FOR DETAILS OF SIGNS).

END PB - -46.7

END PB - -44.7

STA. 85+00

REMOVE EXISTING RUMBLE STRIPS STA. 84+50 TO STA. 85+50

EX. CURB AND SHOULDER IMPACTED BY STORM SEWER WORK. AFTER COMPLETING THE SEWER RESTORE THE SHOULDER PAVEMENT WITH ITEM 615. CURB WILL NOT BE RESTORED. GRADE A TEMPORARY SWALE PER THE MOT CROSS SECTIONS.

IA

END ELW/ BEGIN CHW - -39.0

LL - -28.0

STA. 84+50

CHW

STA. 86+00

PB

GUARDRAIL IMPACTED BY SEWER WORK.PB AND IA QUANTITY INCLUDED IN MOT SUBSUMMARY TO BE PLACED ONCE SEWER WORK IS COMPLETE (NOT SHOWN)

+50

**

IA

STA. 85+00

SPEED LIMIT 80

BEGIN PB - 59.1

STA. 85+93

END CHW/MEET EX. DL - -41.0

PLACE CB2-2B TO COLLECT DRAINAGE FROM TEMP SWALE. OUTFALL BASIN TO D22

TO COMPLETE TEMPORARY PAVEMENT CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED. SEE MOT CROSS SECTIONS FOR DETAILS OF TEMP SWALE.

Digital Speed Limit (DSL) Sign Assembly (STA. 88+00)

SPEED LIMIT

WORK ZONE

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PRE-PHASE 1 STA. 75+50 TO STA. 88+00

DESIGN AGENCY
HNTB

DESIGNER	CC
REVIEWER	MTR 05/01/26
PROJECT ID	105743
SHEET	P.87
TOTAL	P.1269

Preliminary Plans - For Reference Only

TO COMPLETE CONSTRUCTION OF NEW STORM SEWER MAIN AND RETAINING WALL CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED.

EX. CURB AND SHOULDER IMPACTED BY STORM SEWER WORK. AFTER COMPLETING THE SEWER RESTORE THE SHOULDER PAVEMENT WITH ITEM 615. CURB WILL NOT BE RESTORED. GRADE A TEMPORARY SWALE PER THE MOT CROSS SECTIONS.

DA48 IMPACTED BY SEWER WORK ABANDON AND ALLOW DRAINAGE TO CONTINUE SOUTH

STA. 89+10

EX. CANTILEVER SIGN IMPACTED BY STS WORK. UTILIZE LANE CLOSURES PER THE PLCS TO COMPLETE THE REMOVAL. CONSTRUCT THE PERMANENT CANTILEVER SIGN THIS PHASE (114+00). PLACE A GROUND MOUNTED D3-H2 SIGN AS SHOWN ON THE PLANS IN THE INTERIM BETWEEN REMOVAL OF EXISTING AND COMPLETION OF PROPOSED.

EXIT 158 Grant Ave Cuyahoga Hts 1/4 MILE

GUARDRAIL IMPACTED BY SEWER WORK.PB AND IA QUANTITY INCLUDED IN MOT SUBSUMMARY TO BE PLACED ONCE SEWER WORK IS COMPLETE (NOT SHOWN)

PROP. STORM SEWER (SEE DRAINAGE DETAILS)

PB - -41.4
BEGIN ELW - -39.4
LL - -28.4
STA. 88+78

ELW
PB
LL

DA53 IMPACTED BY SEWER WORK ABANDON AND ALLOW DRAINAGE TO CONTINUE SOUTH

℄ EX. I.R. 77

PB - -41.5
ELW - -39.5
LL - -28.5
STA. 96+00

PB - -43.4
END ELW/MEET EX. ELW/DL - -41.4
LL - -28.5

PT STA. 97+21.91

STA. 97+50

SPEED LIMIT

WORK ZONE SPEED LIMIT

STA. 99+00
DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY

MATCH LINE STA. 88+00

89 90 91 92 93 94 95 96 97 98 99 100

MATCH LINE STA. 100+50

TEMPORARY SHORING (SEE MOT CROSS SECTIONS)

+00

OUTLET SWALE TO DA65

ABANDON DA67

ABANDON DA63B

ABANDON DA54

END PB - 42.7

STA. 100+00

EXIT 159B Fleet Ave 3/4 MILE

EXIT 159A Harvard Ave Newburgh Hts 1/4 MILE

UTILIZE FULL CLOSURE OF NB-77 TO REMOVE EXISTING TRUSS AND OVERHEAD SIGNAGE.

TO COMPLETE TEMPORARY PAVEMENT AND REMOVAL OF CURB/TEMPORARY SWALES CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED. SEE MOT CROSS SECTIONS FOR DETAILS.

REMOVE EXISTING RUMBLE STRIPS ALONG NB OUTSIDE SHOULDER. SEE MOT TYPICALS FOR DETAILS.

NOTE: SEE SHEET P.48 FOR MOT TYPICAL SECTION
SEE SHEET P.84 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PRE-PHASE 1
STA. 88+00 TO STA. 100+50

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.88 TOTAL P.1269

MODEL: CLP_I077 - Plan 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:36:58 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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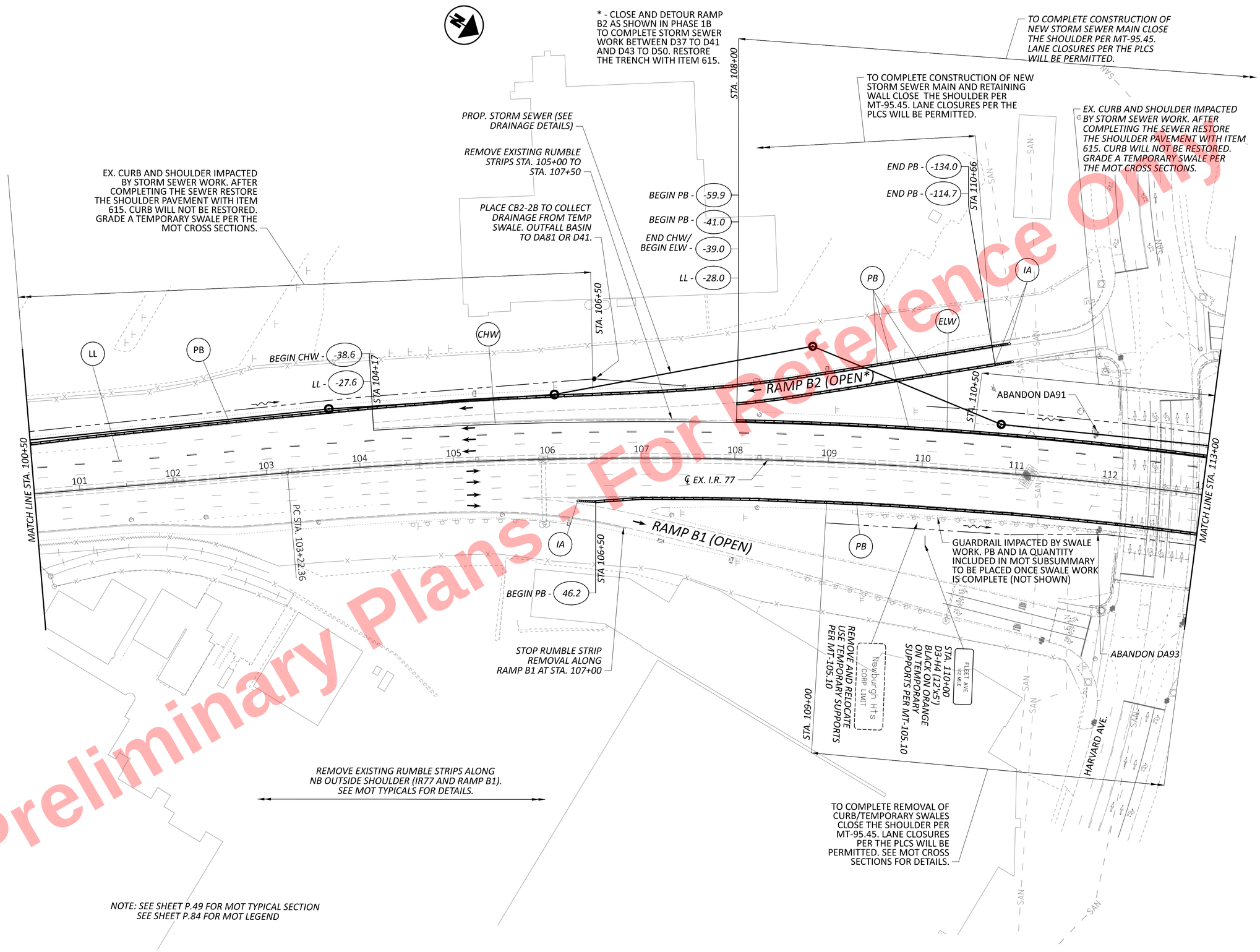

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PRE-PHASE 1
STA. 100+50 TO STA. 113+00

DESIGN AGENCY
HNTB

DESIGNER
CC

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.89 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:36:59 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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TO COMPLETE CONSTRUCTION OF NEW STORM SEWER MAIN CLOSE THE SHOULDER PER MT-95.45.LANE CLOSURES PER THE PLCS WILL BE PERMITTED.

* - CLOSE AND DETOUR RAMP B3 AS SHOWN IN PHASE 1B TO COMPLETE STORM SEWER WORK BETWEEN D59 AND DA113. RESTORE THE TRENCH WITH ITEM 615.

EX. CURB AND SHOULDER IMPACTED BY STORM SEWER WORK. AFTER COMPLETING THE SEWER RESTORE THE SHOULDER PAVEMENT WITH ITEM 615. CURB WILL NOT BE RESTORED. GRADE A TEMPORARY SWALE PER THE MOT CROSS SECTIONS. CLOSE SHOULDER PER MT-95.45

N

HORIZONTAL SCALE IN FEET 0 25 50 100

EX.CURB AND SHOULDER IMPACTED BY STORM SEWER WORK. AFTER COMPLETING THE SEWER RESTORE THE SHOULDER PAVEMENT WITH ITEM 615. CURB WILL NOT BE RESTORED. GRADE A TEMPORARY SWALE PER THE MOT CROSS SECTIONS.

END ROAD WORK

G20-2-48

GRANT AVE 1/2 MILE

STA. 114+50 D3-H4 (12'x5') BLACK ON ORANGE ON TEMPORARY SUPPORTS PER MT-105.10

GUARDRAIL IMPACTED BY SEWER WORK.PB AND IA QUANTITY INCLUDED IN MOT SUBSUMMARY TO BE PLACED ONCE SEWER WORK IS COMPLETE (NOT SHOWN)

EXIT 159A

STA. 119+50

STA. 121+00

REMOVE EXISTING RUMBLE STRIPS STA. 120+00 TO END OF EX. RUMBLE STRIPS AT STA. 121+60 +/-

END PB - -48.1

END PB - -46.1

END ELW/ BEGIN CHW - -40.0

LL - -27.7

IA

UTILIZE FULL CLOSURE OF NB-77 TO REMOVE EXISTING TRUSS AND OVERHEAD SIGNAGE. CONSTRUCT PERMANENT CANTILEVER SIGNS AT 114+00 AND 122+00 THIS PHASE. PLACE TEMPORARY GROUND MOUNTED SIGNS IN THE INTERIM BETWEEN REMOVAL OF EXISTING AND COMPLETION OF THE PROPOSED SIGN

GUARDRAIL IMPACTED BY SEWER WORK.PB AND IA QUANTITY INCLUDED IN MOT SUBSUMMARY TO BE PLACED ONCE SWALE WORK IS COMPLETE (NOT SHOWN)

BEGIN PB - -104.3

BEGIN PB - -94.0

STA. 117+90

END CHW/ MEET EX. DL - -41.1

RAMP B3 (OPEN*)

PB

ABANDON DA113

OUTLET SWALE TO EXISTING CASTCH BASIN

STA. 114+50

ELW

PROP. STORM SEWER (SEE DRAINAGE DETAILS)

LL

MATCH LINE STA. 113+00

114 115 116 117 118 119 120 121 122 123 124 125

MATCH LINE STA. 125+50

GUARDRAIL IMPACTED BY SWALE WORK. PB AND IA QUANTITY INCLUDED IN MOT SUBSUMMARY TO BE PLACED ONCE SWALE WORK IS COMPLETE (NOT SHOWN)

℄ EX. I.R. 77

RAMP B4 (OPEN)

PB

PLACE CB2-2B TO COLLECT DRAINAGE FROM TEMP SWALE. OUTFALL BASIN TO DA100

42.3 - END PB

54.2 - END PB

CHW

Harvard EXIT

STA. 120+50 D3-1 (18"x48") E5-H2R BLACK ON ORANGE ON TEMPORARY SUPPORT

EXIT 159A Harvard Ave Newburgh Hts

EXIT 158 Grant Ave Cuyahoga Hts 3/4 MILE

IA

BEGIN PB - 129.7

STA. 114+33

REMOVE AND RELOCATE. USE TEMPORARY SUPPORTS PER MT-105.10

EX. CANTILEVER TO REMAIN (DO NOT DISTURB THIS PHASE)

REMOVE PER TRAFFIC CONTROL PLANS

STA. 119+00

REMOVE EXISTING RUMBLE STRIPS ALONG NB OUTSIDE SHOULDER (IR77 AND RAMP B4). SEE MOT TYPICALS FOR DETAILS.

TO COMPLETE REMOVAL OF CURB/TEMPORARY SWALES CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED. SEE MOT CROSS SECTIONS FOR DETAILS.

NOTE: SEE SHEET P.50 FOR MOT TYPICAL SECTION
SEE SHEET P.84 FOR MOT LEGEND

Preliminary Plans - For Reference Only

MAINTENANCE OF TRAFFIC - PRE-PHASE 1
STA. 113+00 TO STA. 125+50

CUY-77-11.41 - PART 1

DESIGN AGENCY HNTB

DESIGNER CC

REVIEWER MTR 05/01/26

PROJECT ID 105743

SHEET P.90 TOTAL P.1269

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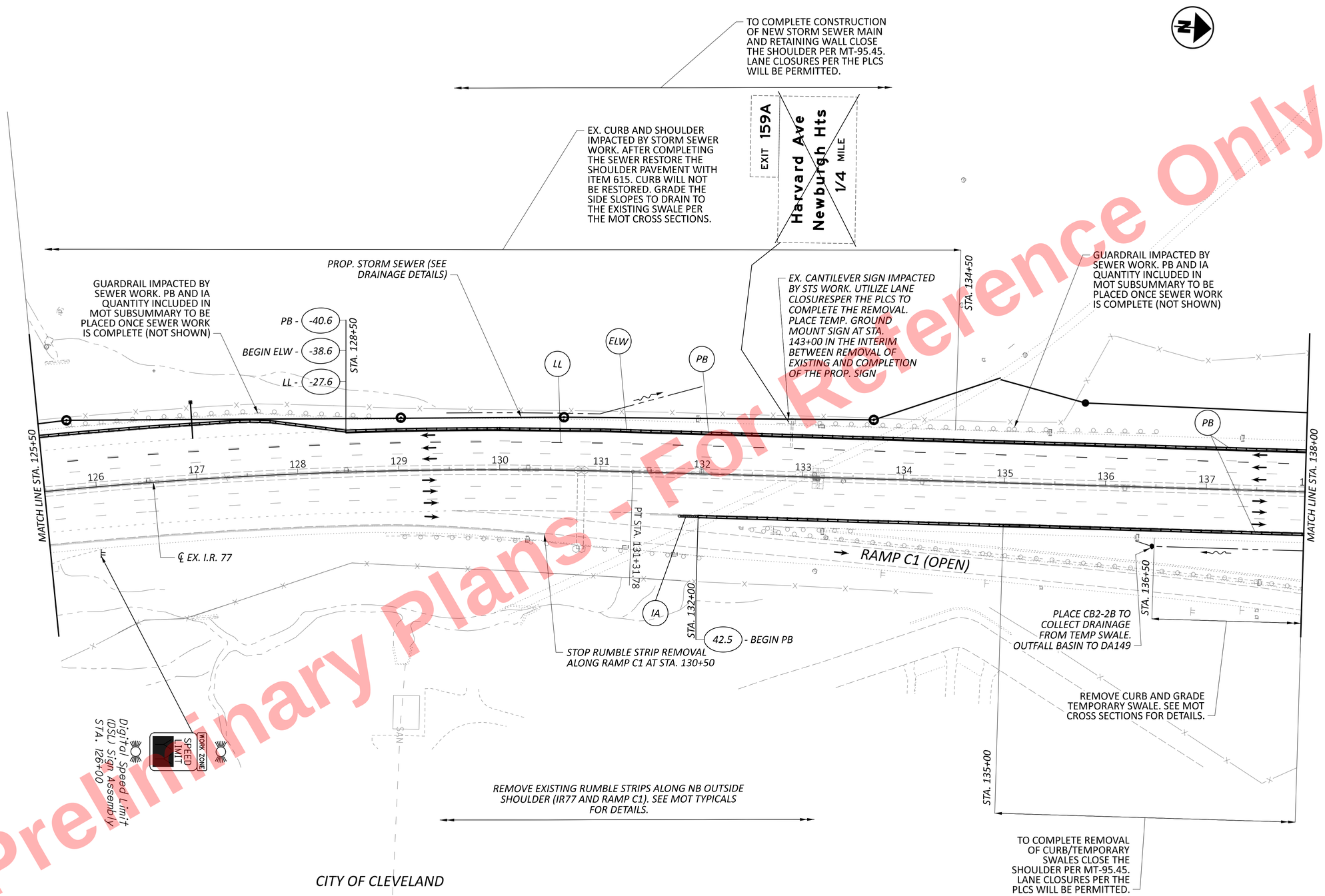
Preliminary Plans - For Reference Only



NOTE: SEE SHEET P.51 FOR MOT TYPICAL SECTION
SEE SHEET P.84 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PRE-PHASE 1
STA. 125+50 TO STA. 138+00

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.91 TOTAL P.1269

MODEL: CLP_I077 - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:01 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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Preliminary Plans - For Reference Only

TO COMPLETE CONSTRUCTION OF NEW STORM SEWER MAIN AND RETAINING WALL CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED.

CITY OF CLEVELAND

TO BE RELOCATED PER ENGINEER

WASHINGTON PARK BLVD

PROP. STORM SEWER (SEE DRAINAGE DETAILS)

DMS TRUSS TO REMAIN UNTIL PHASE 1B (DO NOT DISTURB)

PB

LL

ELW

CRETE RD

INDEPENDENCE RD

RAMP C2

STA. 150+00

END PB - -40.4

ELW - -38.4

LL - -27.4

MATCH LINE STA. 138+00

138 139 140 141 142 143 144 145 146 147 148 149 150

MATCH LINE STA. 150+50

℄ EX. I.R. 77

PC STA. 142+08.13

ABANDON DA161

RAMP C3 (OPEN)

STA. 144+50

STA. 145+91

77.0 - BEGIN PB

PB

PT STA. 149+63.47

E 49TH ST

IA

42.5 - END PB

60.4 - END PB

STA. 147+50

FLEET AVE.

INDEPENDENCE RD

GUARDRAIL IMPACTED BY SEWER WORK. PB AND IA QUANTITY INCLUDED IN MOT SUBSUMMARY TO BE PLACED ONCE SEWER WORK IS COMPLETE (NOT SHOWN)

REMOVE CURB AND GRADE TEMPORARY SWALE. SEE MOT CROSS SECTIONS FOR DETAILS.

REMOVE EXISTING RUMBLE STRIPS ALONG NB OUTSIDE SHOULDER. SEE MOT TYPICALS FOR DETAILS.

TO COMPLETE REMOVAL OF CURB/TEMPORARY SWALES CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED. SEE MOT CROSS SECTIONS FOR DETAILS.

CITY OF CLEVELAND

NOTE: SEE SHEET P.52 FOR MOT TYPICAL SECTION
SEE SHEET P.84 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PRE-PHASE 1
STA. 138+00 TO STA. 150+50

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.92 TOTAL P.1269

CUY-77-11.41 - PART 1

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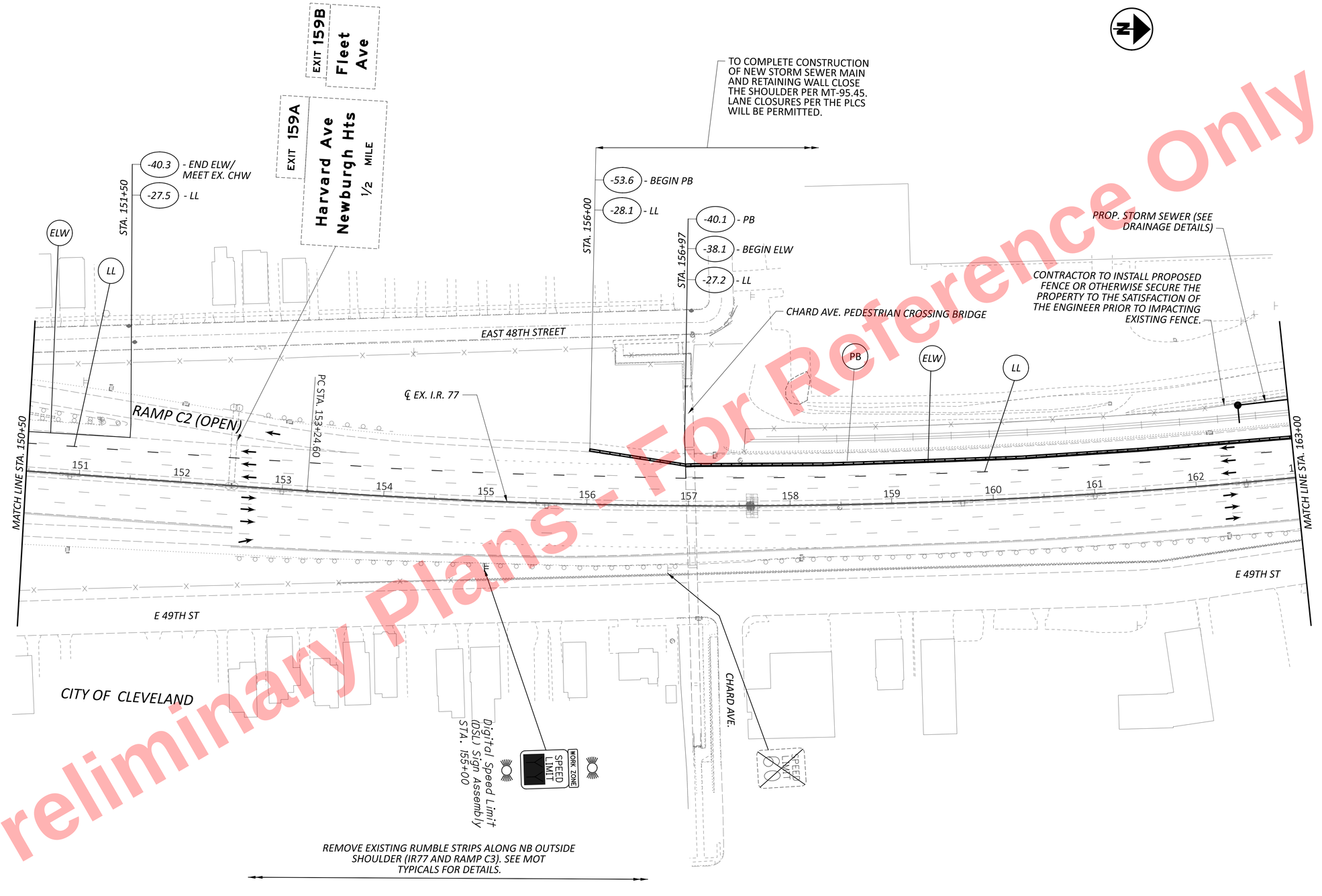
Preliminary Plans - For Reference Only



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PRE-PHASE 1
STA. 150+50 TO STA. 163+00

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.93 TOTAL P.1269

MODEL: CLP_I077 - Plan 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:02 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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Preliminary Plans - For Reference Only

TO COMPLETE CONSTRUCTION OF NEW STORM SEWER MAIN AND RETAINING WALL CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED.

EXIT 159B Fleet Ave 1/2 MILE

EXIT 159A Harvard Ave Newburgh Hts 1/2 MILE

-41.0 - PB
-39.0 - ELW
-28.0 - LL

PB
ELW
LL

PROP. STORM SEWER (SEE DRAINAGE DETAILS)

PT STA. 165+80.47

-43.6 - PB
-41.6 - END ELW/ MEET EX. ELW
-28.6 - END LL/ MEET EX. LL

STA. 174+00

PC STA. 175+06

OVERHEAD TRUSS TO REMAIN UNTIL PHASE 1B

MATCH LINE STA. 163+00

163 164 165 166 167 168 169 170 171 172 173 174 175

MATCH LINE STA. 175+50

E 49TH ST

℄ EX. I.R. 77

E 49TH ST

STA. 163+25

57.0 - BEGIN PB (PLACE END BEHIND EXISTING CONCRETE BARRIER)

END PB - 49.3

STA. 170+50

CITY OF CLEVELAND

RELOCATE AND EXTEND PORTABLE BARRIER PROTECTION OF EXISTING MORGANA RUN BRIDGE PARAPET. USE LANE CLOSURES PER THE PLCS AND MT-95.30. ANCHOR THE PORTIONS OF THE BARRIER ON THE BRIDGE DECK PER PCB-91

MORGANA RUN TRAIL

Digital Speed Limit (DSL) Sign Assembly STA. 174+50

WORK ZONE SPEED LIMIT

REMOVE EXISTING RUMBLE STRIPS ALONG NB OUTSIDE SHOULDER. SEE MOT TYPICALS FOR DETAILS.

NOTE: SEE SHEET P.54 FOR MOT TYPICAL SECTION
SEE SHEET P.84 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PRE-PHASE 1
STA. 163+00 TO STA. 175+50

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.94 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:03 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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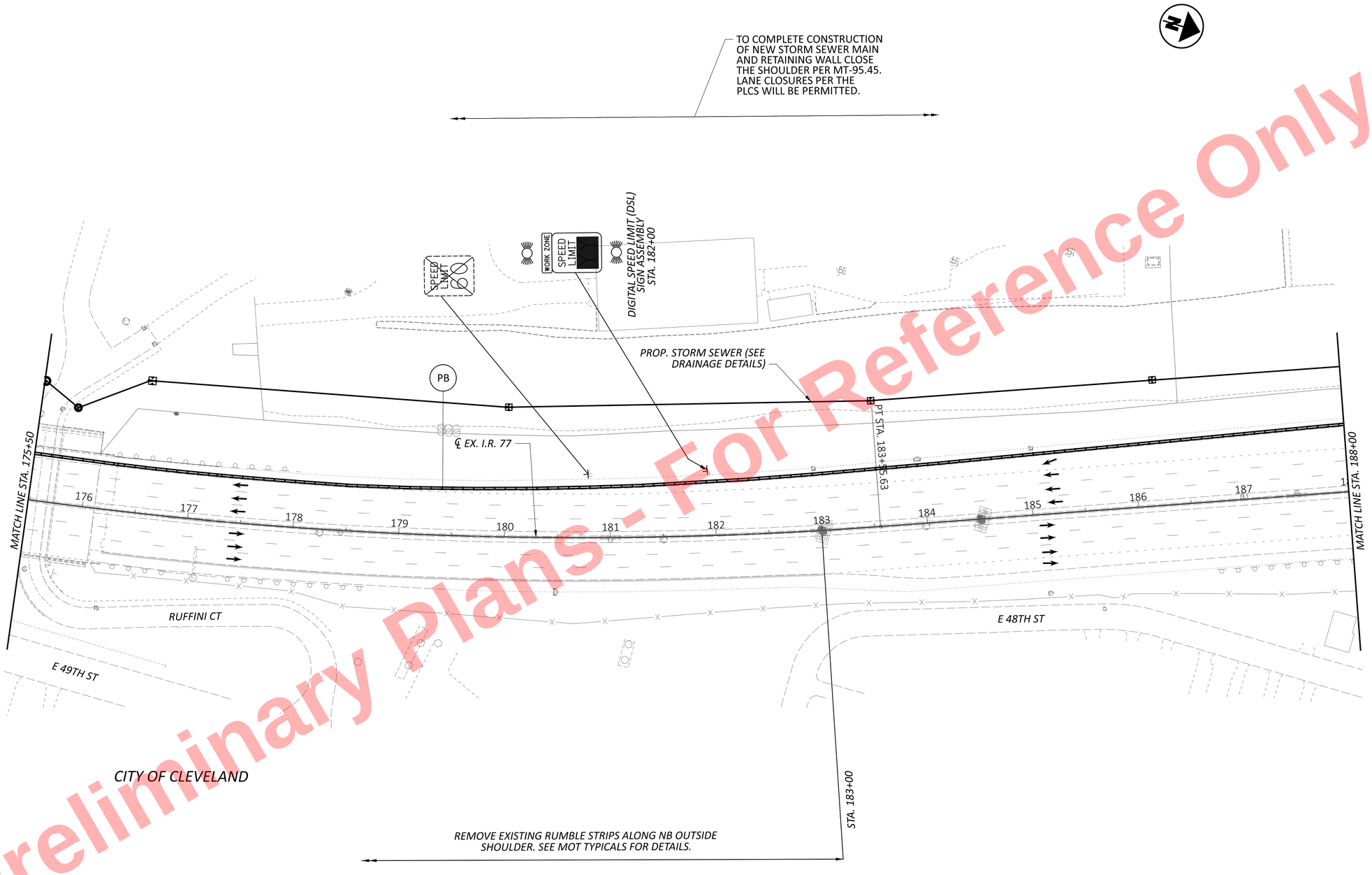
Preliminary Plans - Not For Reference Only



NOTE: SEE SHEET P.54 FOR MOT TYPICAL SECTION
SEE SHEET P.84 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PRE-PHASE 1
STA. 175+50 TO STA. 188+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.95 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 12 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:04 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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Preliminary Plans - For Reference Only

* - CLOSE AND DETOUR RAMP D2 AS SHOWN IN PHASE 1B TO COMPLETE STORM SEWER WORK BETWEEN D183A AND D193. RESTORE THE TRENCH WITH ITEM 615.

TO COMPLETE CONSTRUCTION OF NEW STORM SEWER MAIN AND RETAINING WALL CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED.

EX. CURB AND SHOULDER IMPACTED BY STORM SEWER WORK. AFTER COMPLETING THE SEWER RESTORE THE SHOULDER PAVEMENT WITH ITEM 615.CURB WILL NOT BE RESTORED.GRADE A TEMPORARY SWALE PER THE MOT CROSS SECTIONS.

CONTRACTOR TO INSTALL PROPOSED FENCE OR OTHERWISE SECURE THE PROPERTY TO THE SATISFACTION OF THE ENGINEER PRIOR TO IMPACTING EXISTING FENCE.

EX. CANTILEVER SIGN (FLEET 1 MILE) IMPACTED BY STS WORK. COMPLETE THE REMOVAL AND CONSTRUCT THE PERMANENT CANTILEVER SIGN THIS PHASE WITH LANE CLOSURES PER THE PLCS AND MT-95.30. PLACE TEMP. GROUND MOUNTED SIGN IN THE INTERIM BETWEEN REMOVAL OF EXISTING AND COMPLETION OF PROPOSED.

STA. 199+25 D3-H4 (12"x5') BLACK ON ORANGE ON TEMPORARY SUPPORTS PER MT-105.10

FLEET AVE 1 MILE

ABANDON DA266

RELOCATE CCTV CAMERA

PLACE CB2-2B TO COLLECT DRAINAGE FROM TEMP SWALE. OUTFALL BASIN TO D195.

PROP. STORM SEWER (SEE DRAINAGE DETAILS)

PB

IA

RAMP D2 (OPEN)*

RAMP D1 (OPEN)

BROADWAY AVE C-D ROAD

PLACE CB2-2B TO COLLECT DRAINAGE FROM TEMP SWALE. OUTFALL BASIN TO DA284 OR D201.

PLACE CB2-2B TO COLLECT DRAINAGE FROM TEMP SWALE. OUTFALL BASIN TO DA283

D206

PERSHING AVE.

STA. 194+75

STA. 195+00

STA. 199+50

STA. 196+11.80

STA. 191+00

STA. 190+00

STA. 190+25

STA. 188+00

STA. 200+50

MATCH LINE STA. 188+00

PC STA. 188+18.55

℄ EX. I.R. 77

+00

+80

GUARDRAIL IMPACTED BY SEWER WORK.PB AND IA QUANTITY INCLUDED IN MOT SUBSUMMARY TO BE PLACED ONCE SEWER WORK IS COMPLETE (NOT SHOWN)

BEGIN PB - 46.6

REMOVE CURB AND GRADE TEMPORARY SWALE.SEE MOT CROSS SECTIONS FOR DETAILS.

REMOVE EXISTING RUMBLE STRIPS ALONG NB OUTSIDE SHOULDER. SEE MOT TYPICALS FOR DETAILS.

TO COMPLETE REMOVAL OF CURB/TEMPORARY SWALES CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED. SEE MOT CROSS SECTIONS FOR DETAILS.

Digital Speed Limit (DSL) Sign Assembly (STA. 196+50)

SPEED LIMIT 50

SPEED LIMIT

WORK ZONE

EX. TRUSS TO REMAIN UNTIL PHASE 3. DO NOT DISTURB

ABANDON DA266

ABANDON DA283
TEMPORARY CONNECT
D206 HERE IN PREPHASE.

NOTE: SEE SHEET P.54 FOR MOT TYPICAL SECTION
SEE SHEET P.84 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PRE-PHASE 1
STA. 188+00 TO STA. 200+50

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.96 TOTAL P.1269

MODEL: CLP_I077 - Plan 13 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:04 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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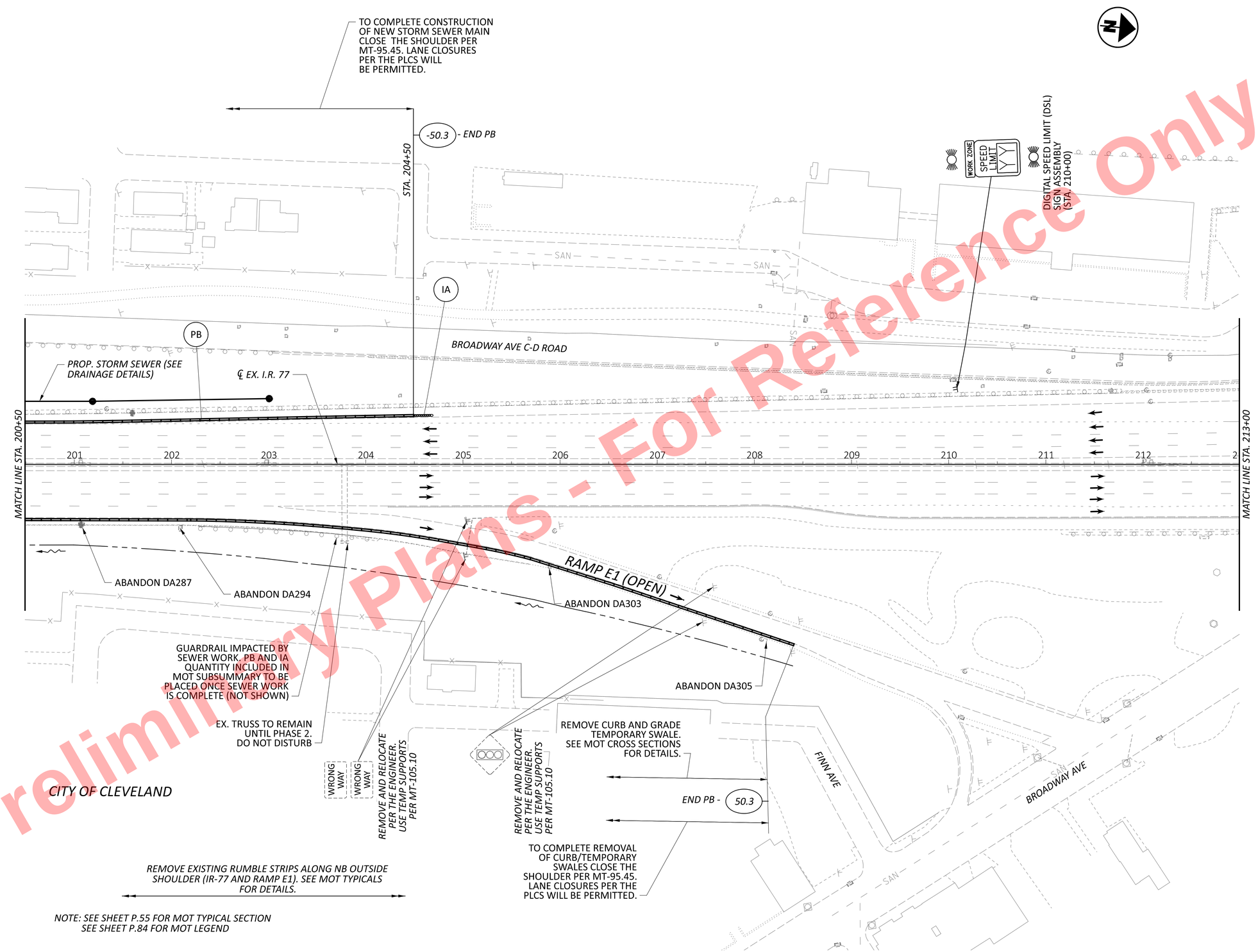

NOTE: SEE SHEET P.55 FOR MOT TYPICAL SECTION
SEE SHEET P.84 FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PRE-PHASE 1
STA. 200+50 TO STA. 213+00

DESIGN AGENCY
HNTB

DESIGNER
CC

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.97 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 14 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:05 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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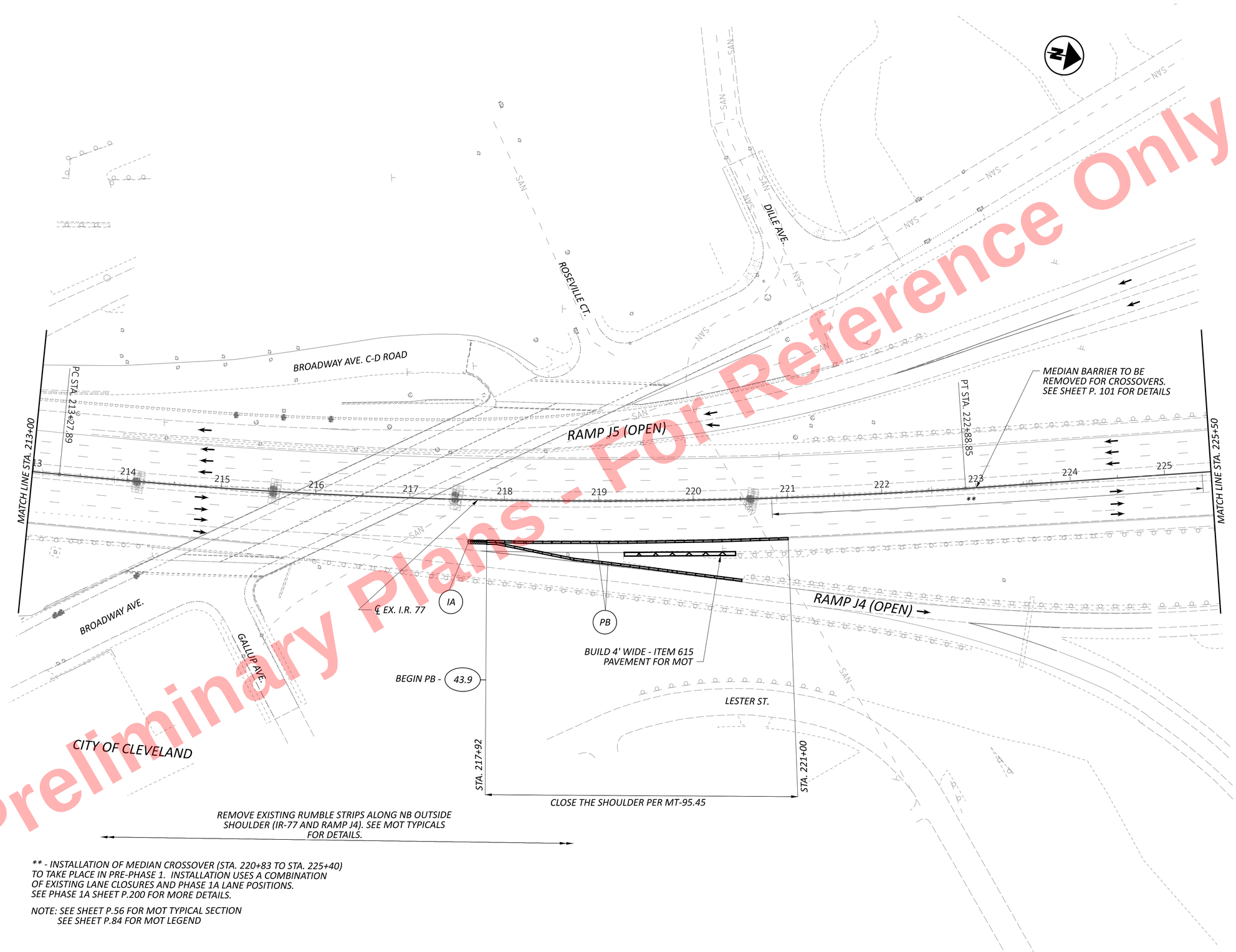
Preliminary Plans - For Reference Only



** - INSTALLATION OF MEDIAN CROSSOVER (STA. 220+83 TO STA. 225+40) TO TAKE PLACE IN PRE-PHASE 1. INSTALLATION USES A COMBINATION OF EXISTING LANE CLOSURES AND PHASE 1A LANE POSITIONS. SEE PHASE 1A SHEET P.200 FOR MORE DETAILS.

NOTE: SEE SHEET P.56 FOR MOT TYPICAL SECTION
SEE SHEET P.84 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PRE-PHASE 1
STA. 213+00 TO STA. 225+50

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.98 TOTAL P.1269

MODEL: CLP_I077 - Plan 15 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:06 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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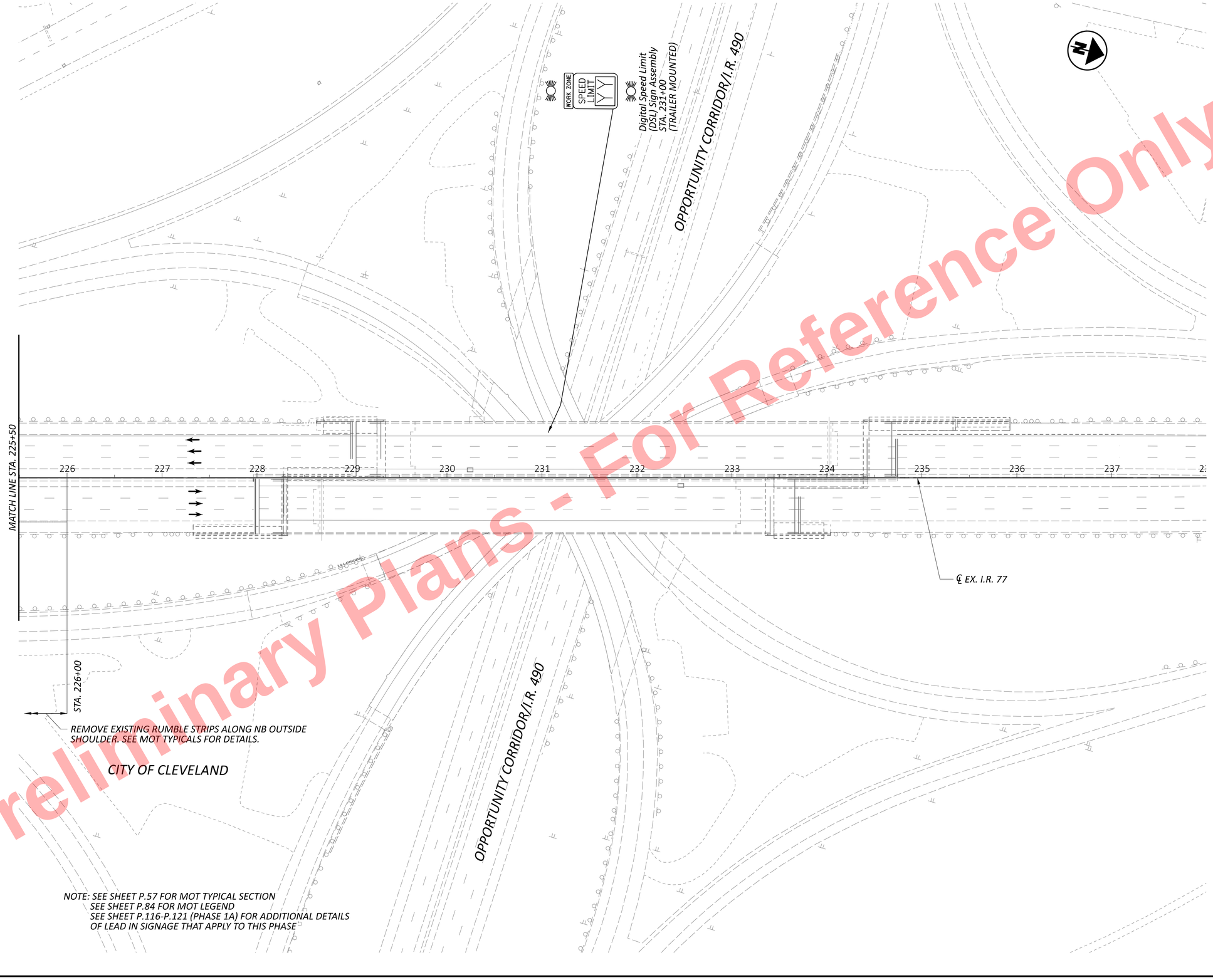
CUY-77-11.41 - PART 1



NOTE: SEE SHEET P.57 FOR MOT TYPICAL SECTION
SEE SHEET P.84 FOR MOT LEGEND
SEE SHEET P.116-P.121 (PHASE 1A) FOR ADDITIONAL DETAILS OF LEAD IN SIGNAGE THAT APPLY TO THIS PHASE

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PRE-PHASE 1
STA. 225+50 TO STA. 238+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.99 TOTAL P.1269

Preliminary Plans - For Reference Only

RAMP A3 (OPEN)

I.R. 77 SB

I.R. 77 NB

RAMP A4 (OPEN)

ADD BLACK ON ORANGE
W20-H15aOVERLAYS (18"x72")
ON BOTH OVERHEAD SIGNS

PC STA. 16+58.29

GRANT AVENUE

17

18

19

20

21

22

℄ EX. R/W GRANT AVE

DRUMS @ 20' SPA.

+23

5' MIN

+31

34' R

CLOSE RAMP A2 PER
MT-101.60

RADIUS = 90'

CLOSE RIGHT LANE
PER MT-95.41
(TOE OF BARRIER 1'
OFFSET FROM EX. LANE LINE)

CHANNELIZING DEVICE PER
MT-110.10

RADIUS = 30'

PEDESTRIAN DETOUR ROUTE
(SIGN PER MT-110.10)

DRUMS @ 10' SPA.

PT STA. 75+26.62

75

RAMP A1 (OPEN)

ONLY ONLY

RAMP A2 (CLOSED)

NOTE: SEE SHEET P.84 FOR MOT LEGEND

HORIZONTAL
SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PRE-PHASE 1
GRANT AVENUE

DESIGN AGENCY
HNTB

DESIGNER
CC

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.100 | TOTAL P.1269

CUY-77-11.41 - PART 1

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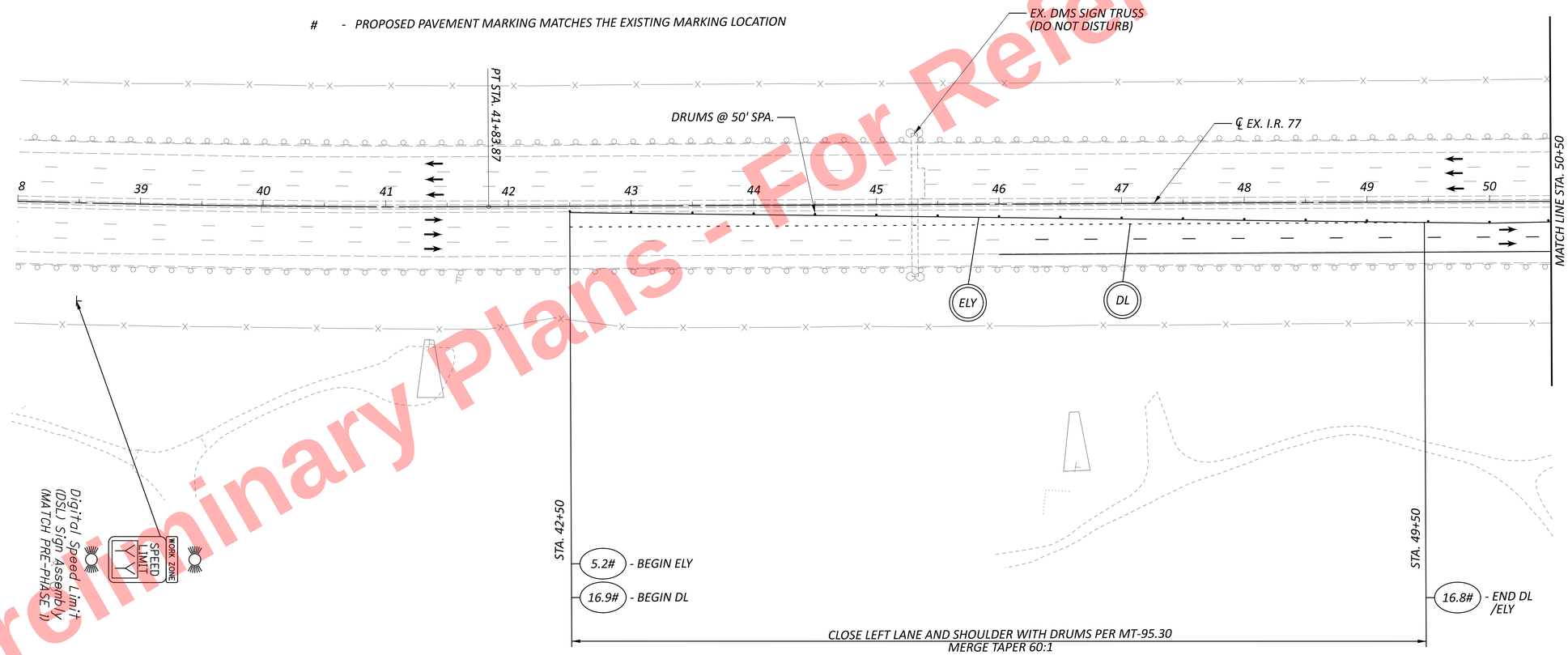
Preliminary Plans - For Reference Only

LEGEND

- WORK ZONE IMPACT ATTENUATOR (IA)
- (ELW) WORK ZONE EDGE LINE (WHITE), CLASS I, 6"
- (ELY) WORK ZONE EDGE LINE (YELLOW), CLASS I, 6"
- (LA) WORK ZONE LANE ARROW, CLASS I
- (CHW) WORK ZONE CHANNELIZING LINE (WHITE), CLASS I, 12"
- (DL) WORK ZONE DOTTED LINE (WHITE), CLASS I
- (CL) WORK ZONE CENTER LINE (DOUBLE SOLID), CLASS I
- (LL) WORK ZONE LANE LINE, CLASS I, 6"
- (CW) WORK ZONE CROSSWALK LINE, CLASS I
- # PROPOSED PAVEMENT MARKING MATCHES THE EXISTING MARKING LOCATION

- WORK AREA
- DRUMS (SPACING AS NOTED)
- PORTABLE BARRIER (PB) (32" HEIGHT, UNLESS NOTED OTHERWISE) (PB)
- TEMPORARY PAVEMENT BUILT IN THIS PHASE
- TEMPORARY PAVEMENT BUILT IN PREVIOUS PHASE
- (XX) WORK ZONE PAVEMENT MARKING, 648.02, AS PER PLAN



NOTE: SEE SHEET P.83 FOR MOT SIGNAGE SCHEMATIC

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 38+00 TO STA. 50+50

CUY-77-11.41 - PART 1

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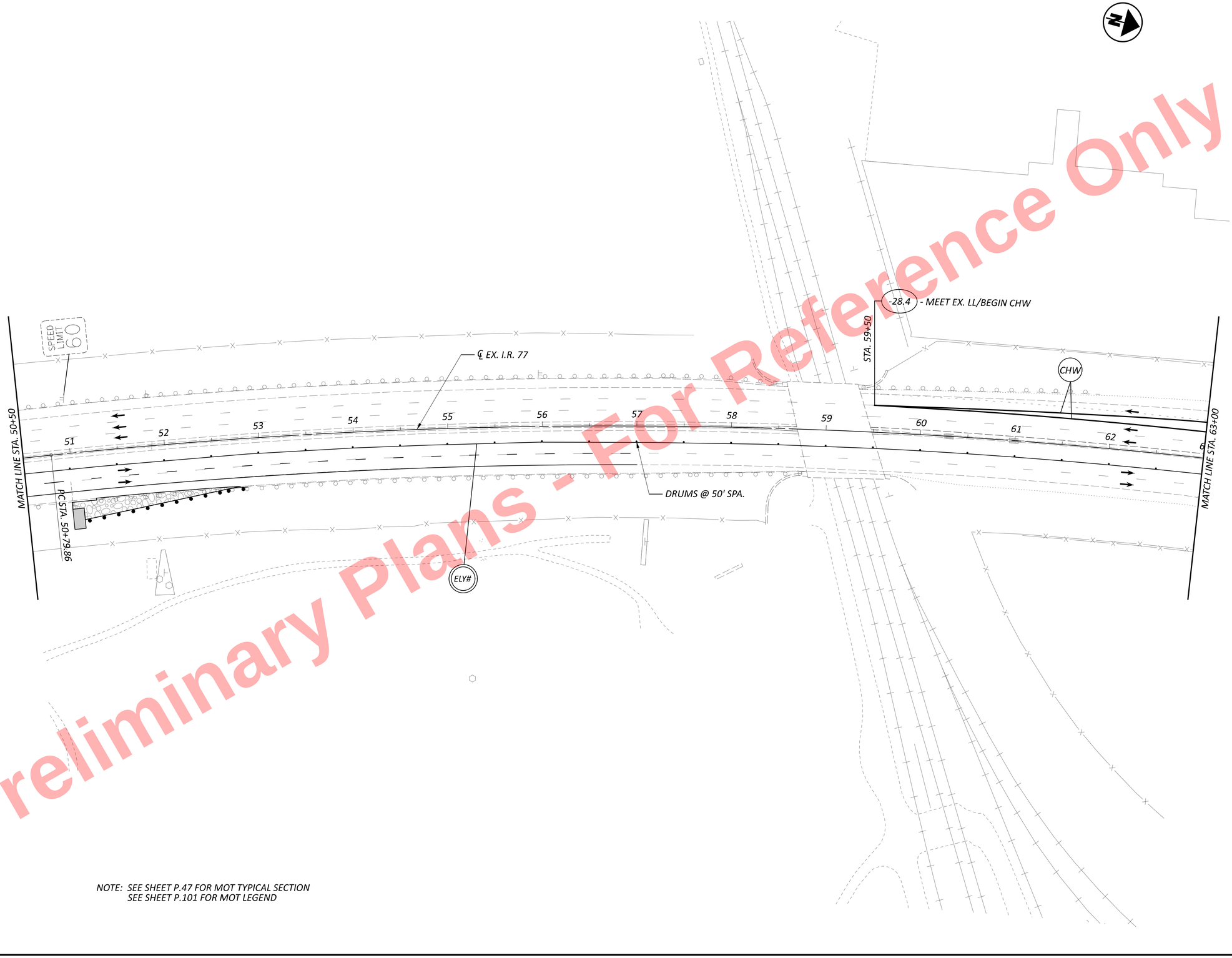
DESIGN AGENCY
HNTB

DESIGNER	CC
REVIEWER	MTR 05/01/26
PROJECT ID	105743
SHEET	P.101
TOTAL	P.1269



Preliminary Plans - For Reference Only

NOTE: SEE SHEET P.47 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 50+50 TO STA. 63+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.102 TOTAL P.1269

CUY-77-11.41 - PART 1

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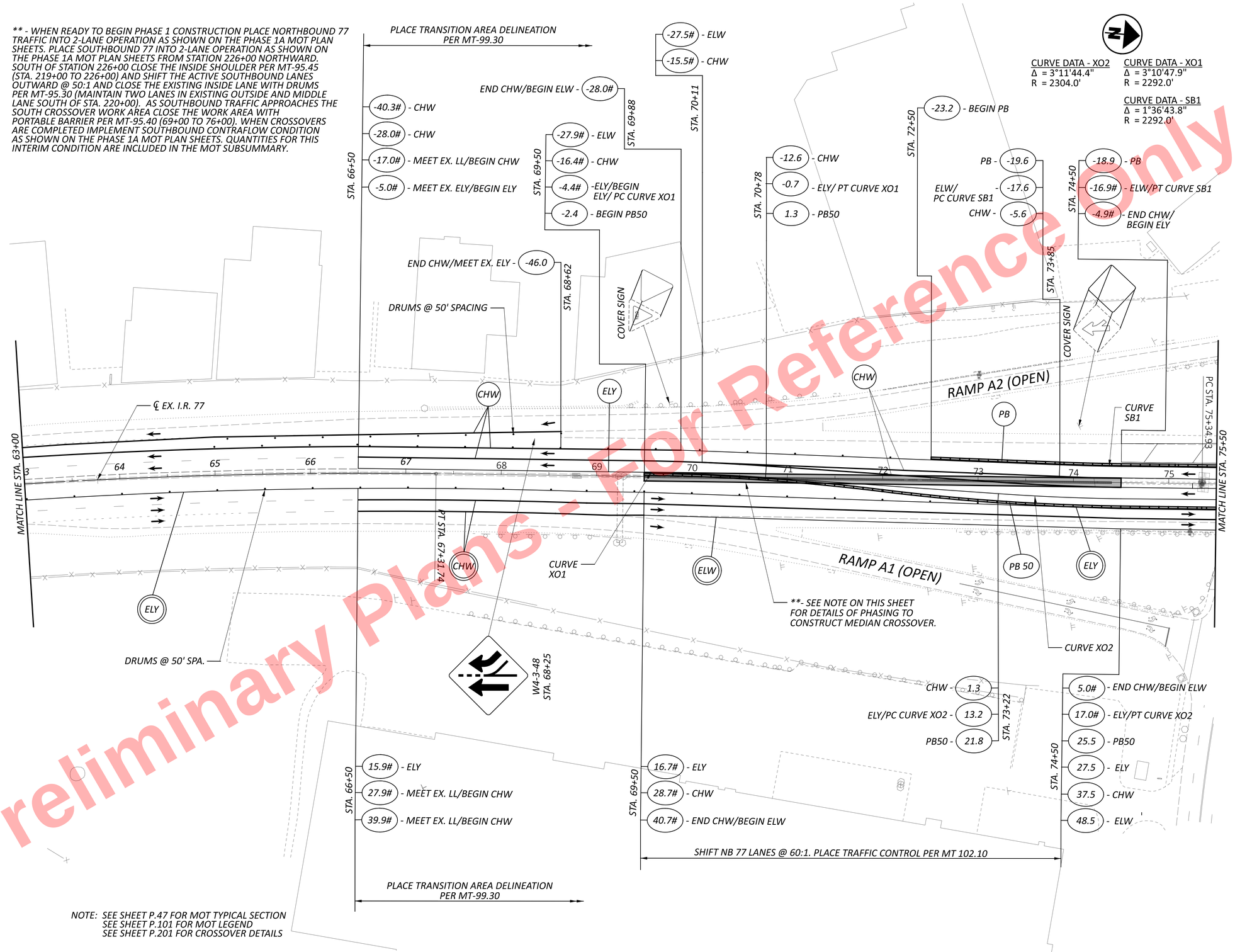

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 63+00 TO STA. 75+50

DESIGN AGENCY
HNTB

DESIGNER
CC

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.103 TOTAL P.1269

CUY-77-11.41 - PART 1

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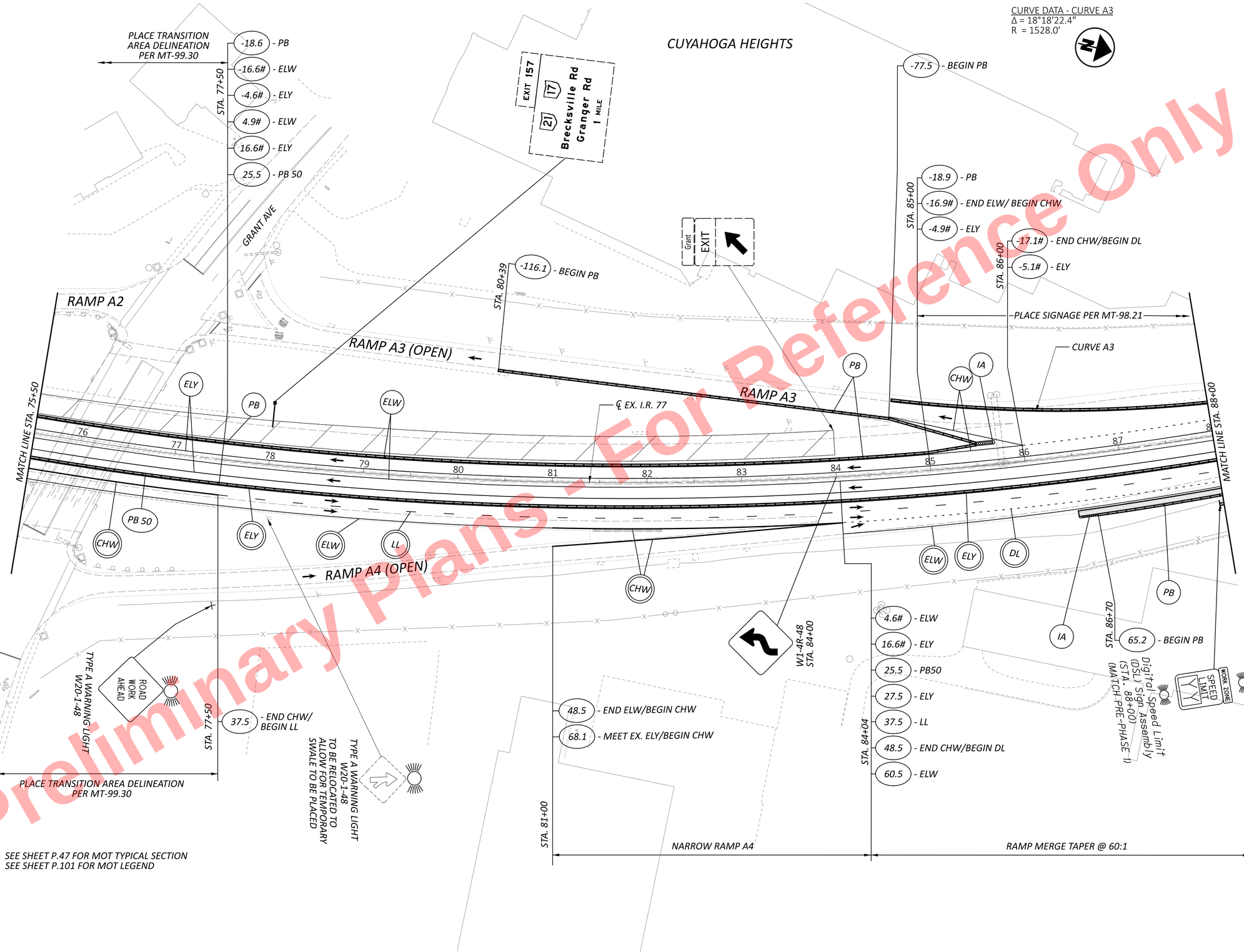

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 75+50 TO STA. 88+00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:27 AM USER: kperkins
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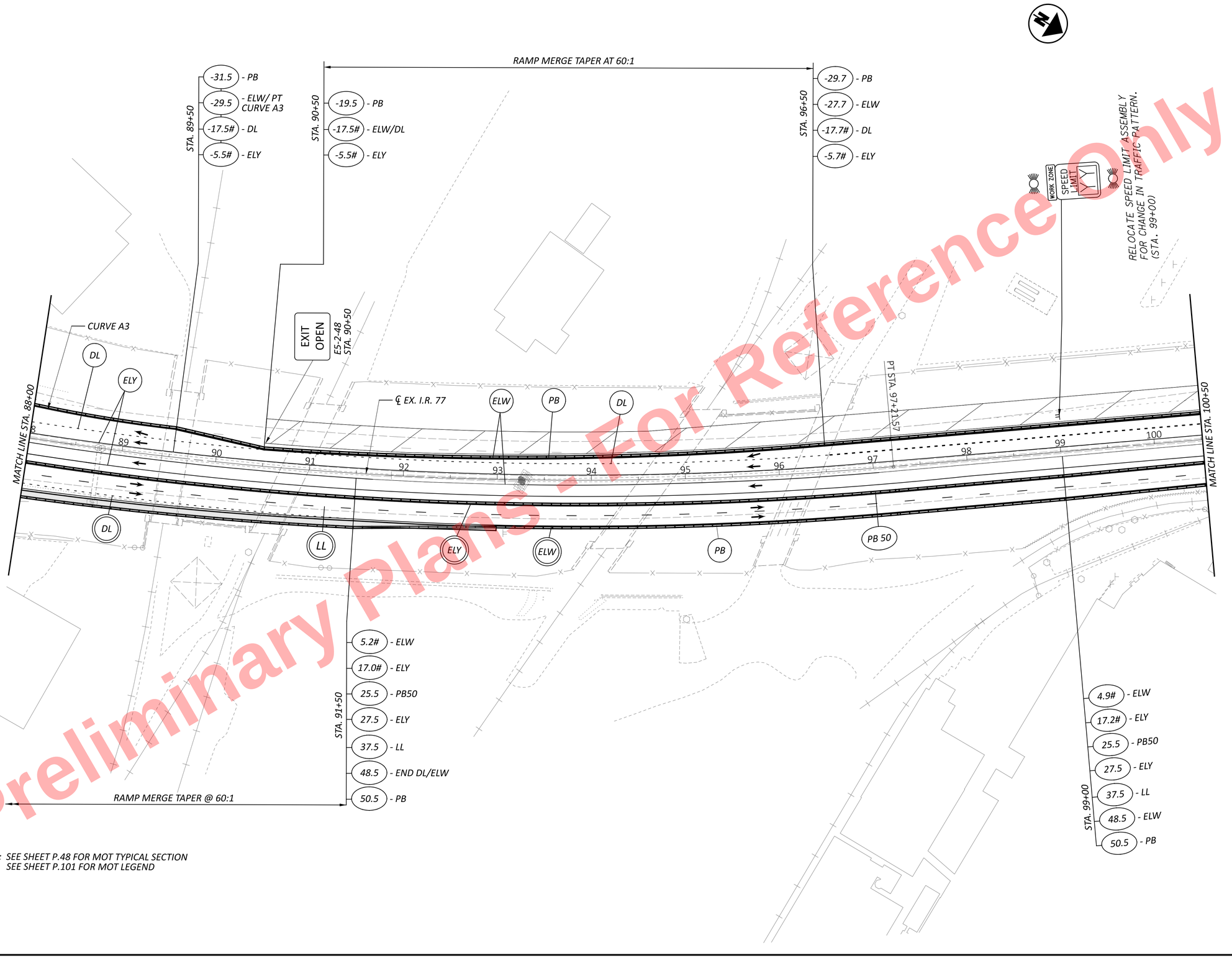
DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.104 | TOTAL P.1269



NOTE: SEE SHEET P.48 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 88+00 TO STA. 100+50

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.105 TOTAL P.1269

CURVE DATA - CURVE B1
Δ = 16°40'33.2"
R = 731.0'

CURVE DATA - CURVE B2
Δ = 5°08'08.9"
R = 1633.89'

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 100+50 TO STA. 113+00

Preliminary Plans - For Reference Only

MATCH LINE STA. 100+50

MATCH LINE STA. 113+00

RAMP B2 (OPEN)

RAMP B1 (OPEN)

CURVE B2

CURVE B1

PC STA. 103+22.36

℄ EX. I.R. 77

DRUMS @ 20' SPA

TYPE A WARNING LIGHT
W4-1R
RELOCATE WITH
PORTABLE SUPPORT

TYPE A WARNING LIGHT
W20-1-48

ROAD WORK AHEAD

EXIT OPEN AHEAD
E5-H20-48
STA. 110+00

YIELD
R1-2-48
STA. 104+00

HARVARD AVE

G20-2-48 ROAD WORK END

STA. 100+50
- 48.5 - END PB

STA. 101+50
- 4.9# - ELW
- 17.7# - ELY
- 23.5 - PB50
- 25.5 - ELY
- 35.5 - LL
- 46.5 - ELW/DL

STA. 103+00
- 46.5 - DL
- 56.5 - ELW

STA. 104+00
- -28.6 - PB
- -26.6 - ELW/PC CURVE B2
- -16.6# - END DL/BEGIN CHW
- -5.6# - ELY

STA. 105+38
- 46.5 - END DL/CHW
- 56.5 - ELW/PC CURVE B1

STA. 105+46
- -37.6 - PB
- -35.6 - ELW/PT CURVE B2
- -25.7 - END CHW/BEGIN ELY

STA. 106+64
- -18.8 - BEGIN PB
- -16.8# - ELW
- -4.8# - ELY

STA. 107+22
- 67.5 - END CHW/MEET EX. ELY
- 82.4 - ELW/PT CURVE B1 /MEET EX. ELW

STA. 107+30
- 41.6 - END CHW/BEGIN ELW

STA. 109+10
- -98.0 - PB
- -96.0 - END ELW/ MEET EX. ELW
- -80.3 - END ELY/ MEET EX. ELY

PLACE SIGNAGE PER MT-98.21

NOTE: SEE SHEET P.49 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND

DESIGN AGENCY
HNTB

DESIGNER	CC
REVIEWER	MTR 05/01/26
PROJECT ID	105743
SHEET	P.106
TOTAL	P.1269

CUY-77-11.41 - PART 1

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CURVE DATA - CURVE B3
Δ = 3°34'13.5"
R = 1,557.92'

NEWBURGH HEIGHTS

EXIT 158
Grant Ave
Cuyahoga Hts
1/2 MILE

END ROAD WORK

RAMP B3 (OPEN)

RAMP B4 (OPEN)

℄ EX. I.R. 77

MATCH LINE STA. 113+00

MATCH LINE STA. 125+50

STA. 118+90
-107.6 - BEGIN PB
-105.6 - ELW/ MEET EX. ELW
-88.8 - ELY/ MEET EX. ELY
-86.8 - BEGIN PB

Harvard EXIT
RELOCATE TO 121+50 ON PORTABLE SUPPORT

STA. 122+50
-50.2 - PB
-48.2 - ELW
-31.5 - END ELY/BEGIN CHW
-16.5# - END ELW/BEGIN CHW
-4.6# - ELY

STA. 124+00
-35.0 - PB
-33.0 - ELW
-16.6# - END CHW/ BEGIN DL
-4.6# - ELY

STA. 124+04
-32.7 - ELW/PC CURVE B3
-30.6 - PB
-28.6 - ELW/ PC CURVE B3
-16.6# - DL
-4.60# - ELY

STA. 125+00

CURVE B3

TYPE A WARNING LIGHT W4-1R-48
RELOCATE TO ALLOW TEMP. SWALE CONSTRUCTION

TYPE A WARNING LIGHT W20-1-48
ROAD WORK AHEAD

STA. 118+00
46.5 - END ELW/ BEGIN CHW
64.5# - MEET EX. ELY/ BEGIN CHW

STA. 119+82
52.5# - CHW
65.9# - MEET EX. ELW/ BEGIN ELW/BEGIN RAMP NARROWING

STA. 122+00
4.2# - ELW
16.2# - ELY
23.5 - PB50
25.5 - ELY
35.5 - LL
46.5 - END CHW/BEGIN DL
-56.5 - ELW/END RAMP NARROWING

NOTE: SEE SHEET P.50 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 113+00 TO STA. 125+50

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.107 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:29 AM USER: kperkins
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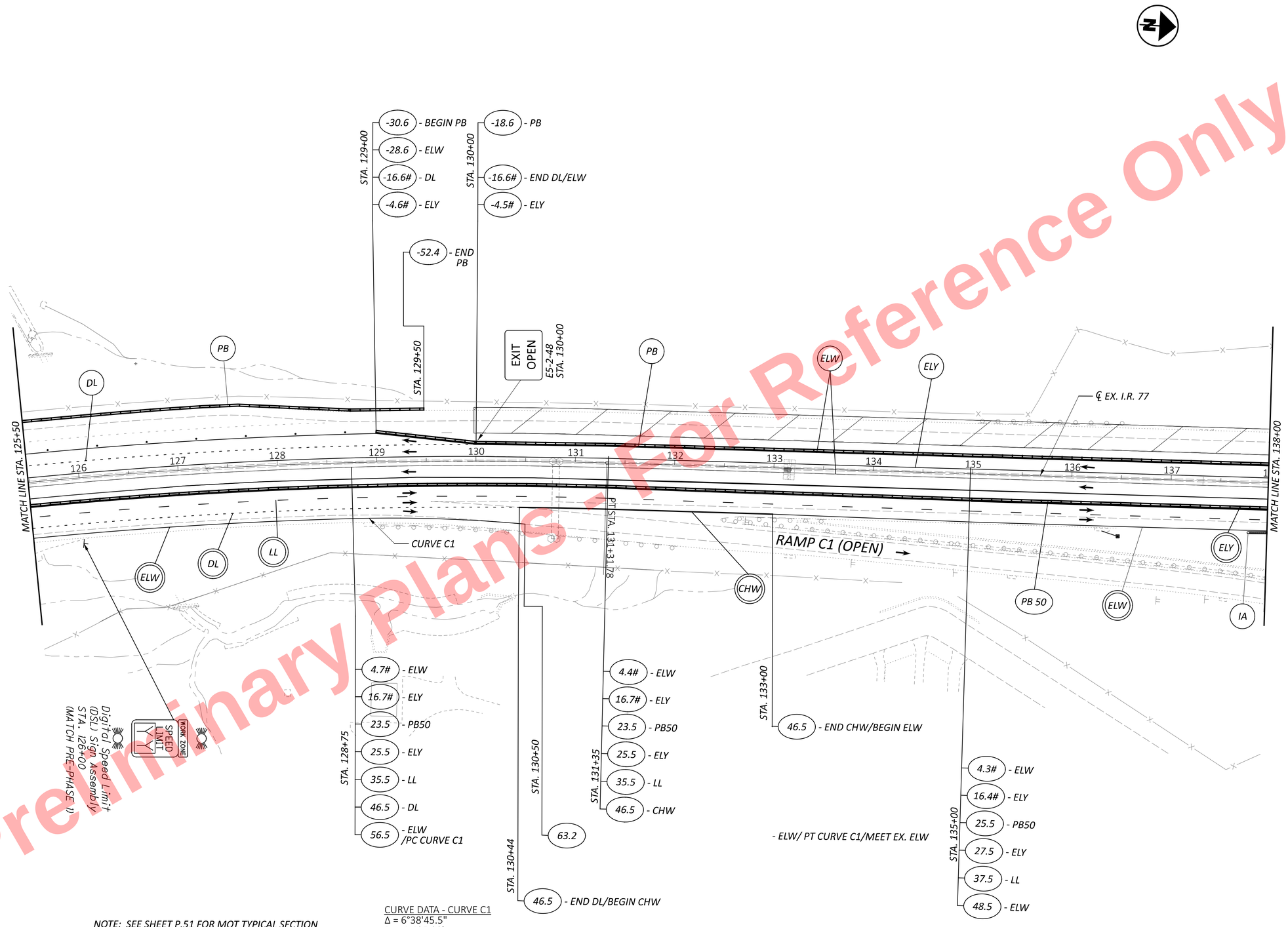

NOTE: SEE SHEET P.51 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND

CURVE DATA - CURVE C1
Δ = 6°38'45.5"
R = 1,495.00'

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 125+50 TO STA. 138+00

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.108 TOTAL P.1269

MODEL: CLP_I077 - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:30 AM USER: kperkins
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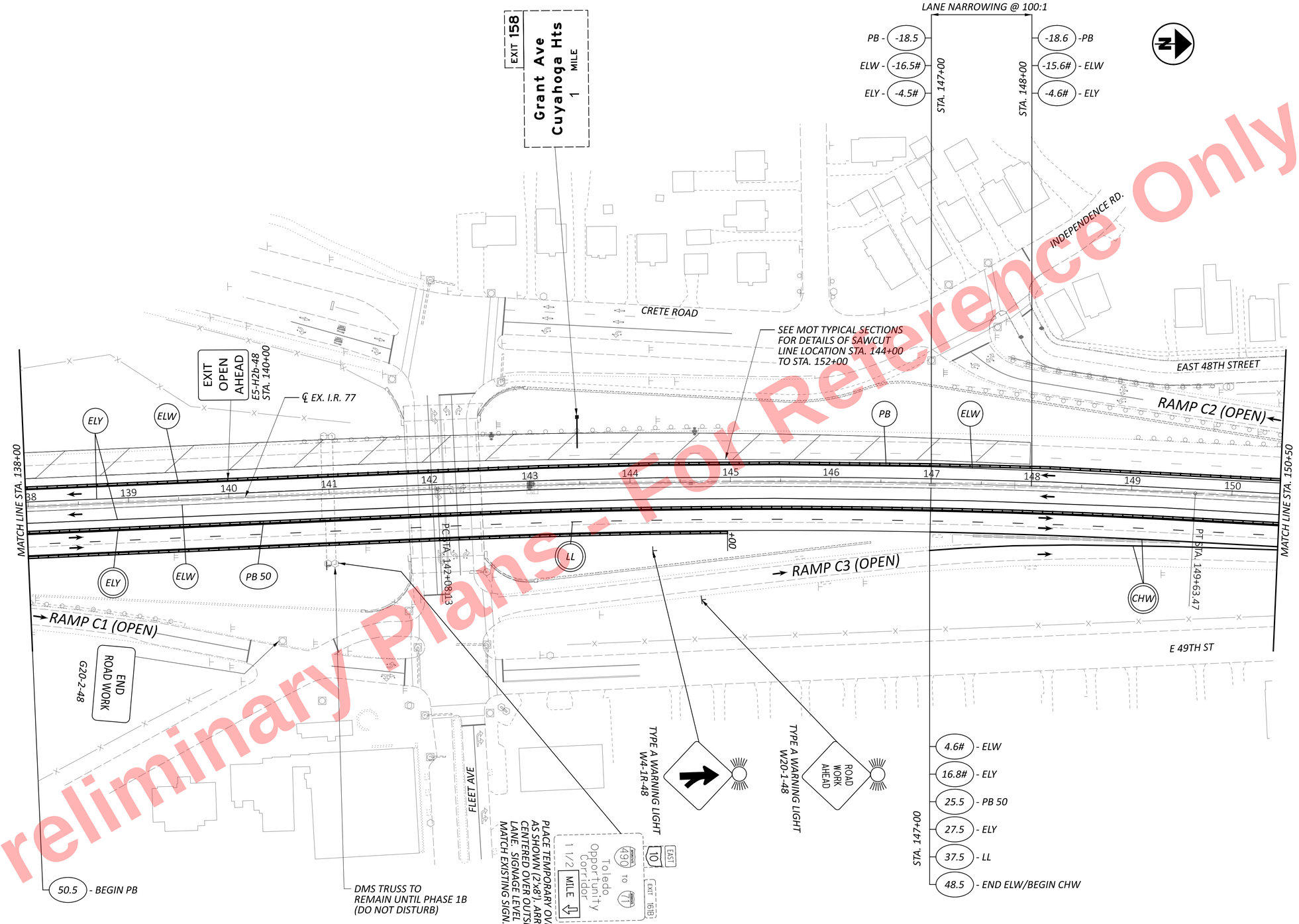
Preliminary Plans - For Reference Only



NOTE: SEE SHEET P.53 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 138+00 TO STA. 150+50

DESIGN AGENCY
HNTB

DESIGNER	CC
REVIEWER	MTR 05/01/26
PROJECT ID	105743
SHEET	P.109
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:30 AM USER: kperkins
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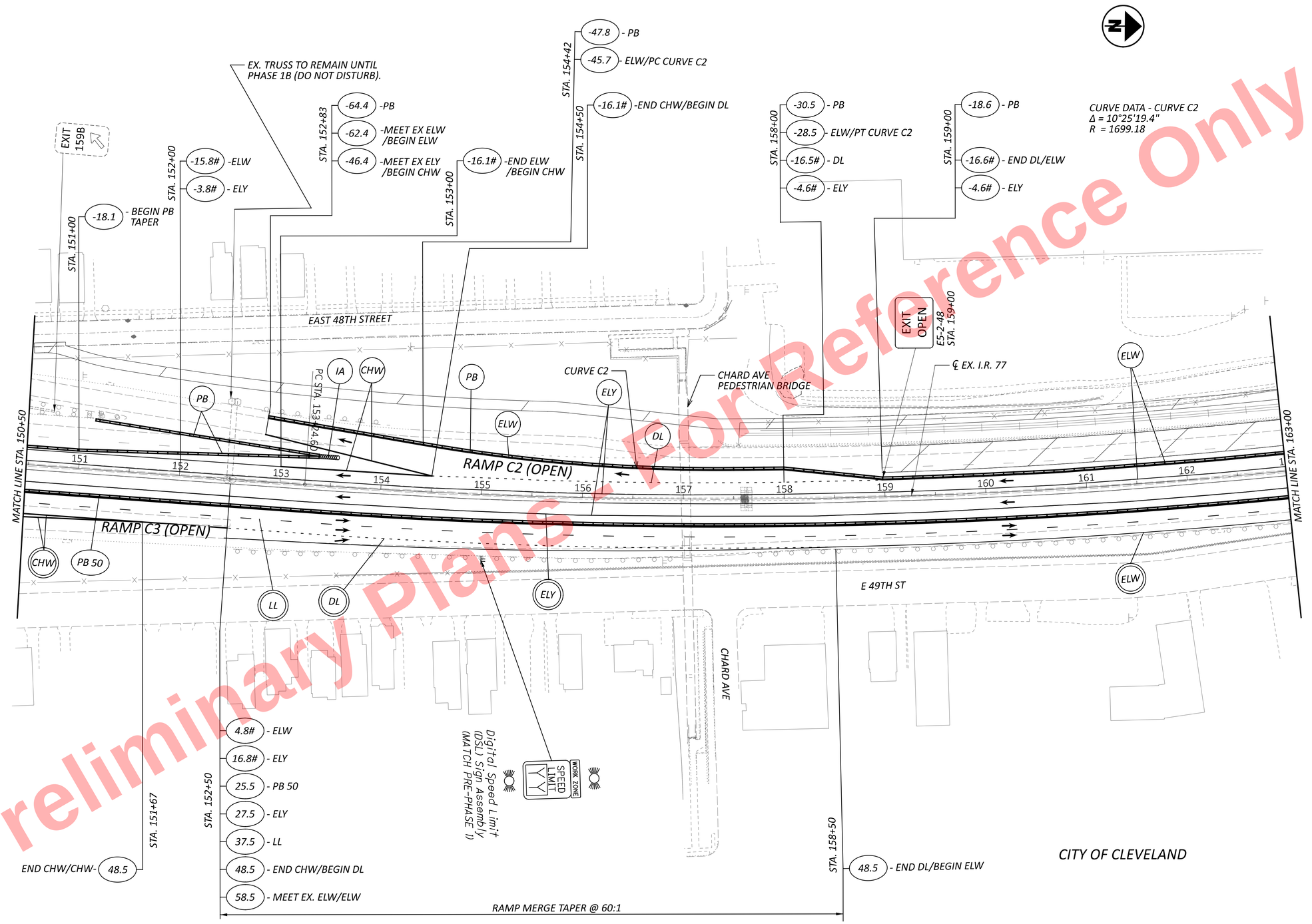

NOTE: SEE SHEET P.53 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 150+50 TO STA. 163+00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:31 AM USER: kperkins
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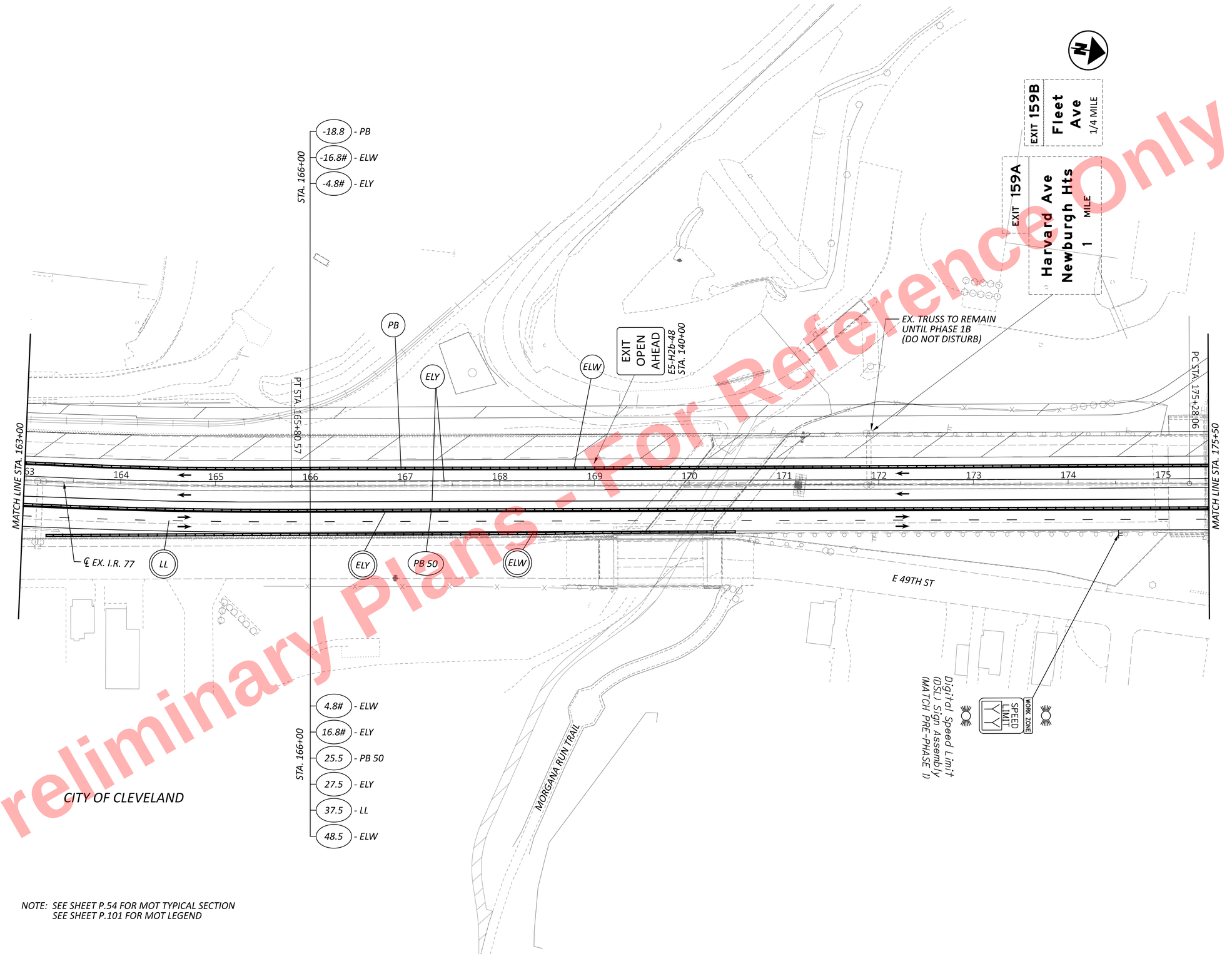
DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.110 TOTAL P.1269



NOTE: SEE SHEET P.54 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 163+00 TO STA. 175+50

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.111 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:32 AM USER: kperkins
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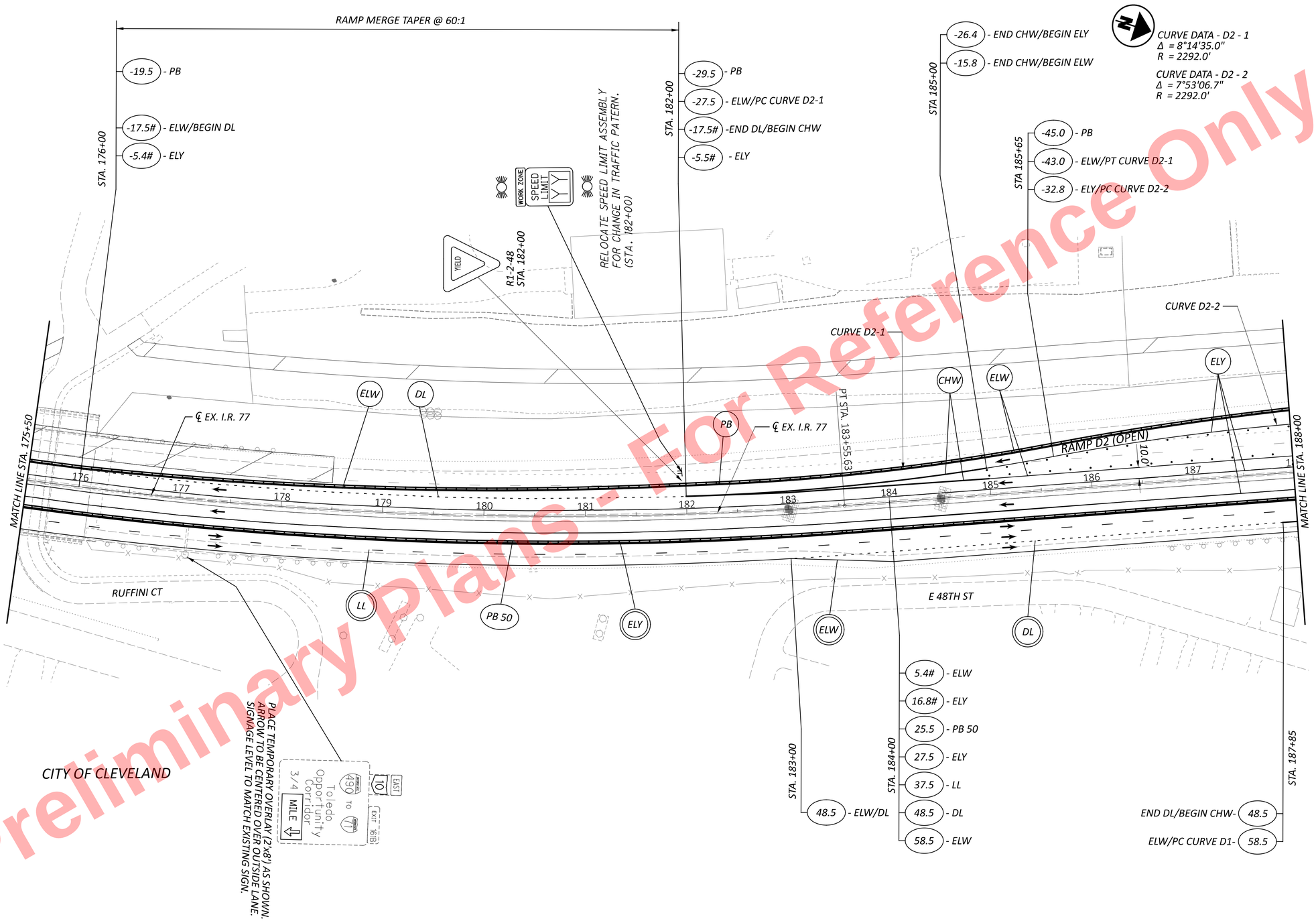

NOTE: SEE SHEET P.54 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 175+50 TO STA. 188+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.112 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 12 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:32 AM USER: kperkins
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MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 188+00 TO STA. 200+50

HORIZONTAL SCALE IN FEET
0 25 50 100

-65.1 - END PB
-63.1 - END ELW/MEET EX. ELW
-47.5 - END ELY/PT CURVE D2-2/MEET EX. ELY
-14.6 - ELW
-4.6# - ELY
STA 188+77

-57.1 - BEGIN PB
-20.4 - BEGIN PB
STA 192+00

EX. W4-1R-48
ADD WARNING LIGHT
RELOCATE TO STA. 191+00
ON PORTABLE SUPPORT

ROAD WORK AHEAD
TYPE A WARNING LIGHT W20-1-48

MAINTAIN PEDESTRIAN TRAFFIC PER MT-110.10

-17.9 - PB
-15.9 - ELW
-5.9# - ELY
STA. 199+00

EXIT 159B
Fleet Ave
1 MILE

IA DRUMS @ 20' SPA.

PB

RAMP D2 (OPEN)

EX. TRUSS TO REMAIN UNTIL PHASE 2. DO NOT DISTURB.

ELY ELW

+00

IA

BROADWAY AVE C-D ROAD

10.0'

189 190 191 192 193 194 195 196 197 198 199 200

MATCH LINE STA. 188+00

MATCH LINE STA. 200+50

℄ EX. I.R. 77

RAMP D1 (OPEN)

LL IA PB 50 ELW ELY PB

STA. 196+11.80

DL

PC STA. 188+18.55

ELW CHW

STA. 191+00

48.6 - END CHW/BEGIN ELW

CURVE D1

STA. 190+29

57.2 - END CHW/MEET EX. CHW

73.2 - END ELW/MEET EX. ELW/PT CURVE D1

CURVE DATA - CURVE D1
Dc = 10°41'01.6"
R = 1278.0'

G20-2-48
PLACE PER MT-98.20

END ROAD WORK

Digital Speed Limit (DSL) Sign Assembly (MATCH PRE-PHASE 1)

SPEED LIMIT XX
WORK ZONE

PLACE TEMPORARY OVERLAY (2'x8') AS SHOWN. ARROW TO BE CENTERED OVER OUTSIDE LANE. SIGNAGE LEVEL TO MATCH EXISTING SIGN.

Cleveland 17 NORTH
½ MILE Toledo 90 TO 71 EXIT 161B
Broadway Ave 14 EXIT 161A

PERSHING AVE

6.0# - ELW
18.8# - ELY
25.5 - PB 50
27.5 - ELY
37.5 - LL
48.5 - ELW/BEGIN DL
50.5 - PB
STA. 197+50

48.5 - DL
58.5 - ELW
60.5 - PB
STA. 198+50

CITY OF CLEVELAND

NOTE: SEE SHEET P.55 FOR MOT TYPICAL SECTION
SEE SHEET P.53 FOR MOT LEGEND

Preliminary Plans - For Reference Only

DESIGN AGENCY
HNTB

DESIGNER	CC
REVIEWER	MTR 05/01/26
PROJECT ID	105743
SHEET	P.113
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 13 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:33 AM USER: kperkins
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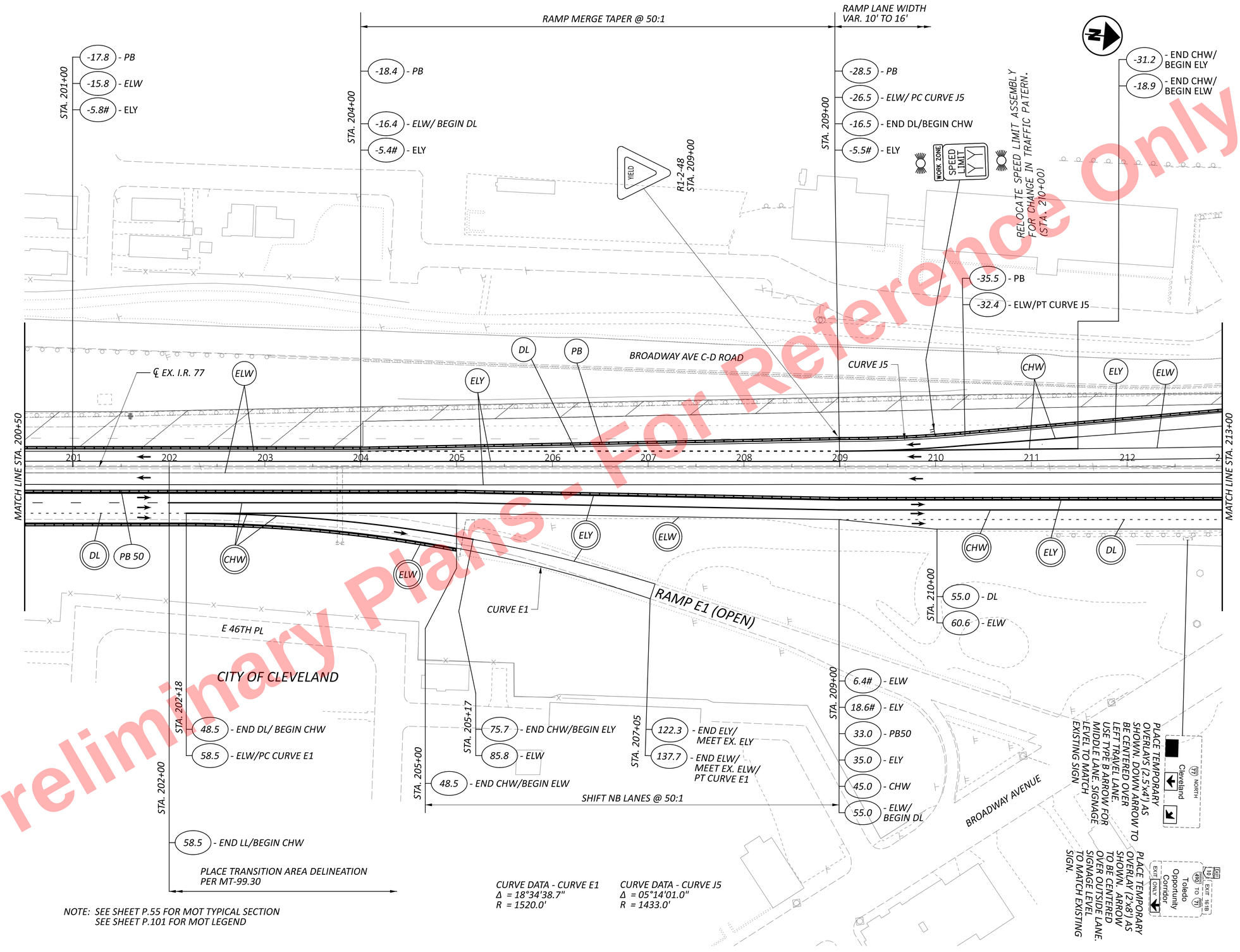
MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 200+50 TO STA. 213+00



NOTE: SEE SHEET P.55 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND

CURVE DATA - CURVE E1
Δ = 18°34'38.7"
R = 1520.0'

CURVE DATA - CURVE J5
Δ = 05°14'01.0"
R = 1433.0'

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

DESIGN AGENCY
HNTB

DESIGNER
CC

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.114 TOTAL P.1269

CUY-77-11.41 - PART 1

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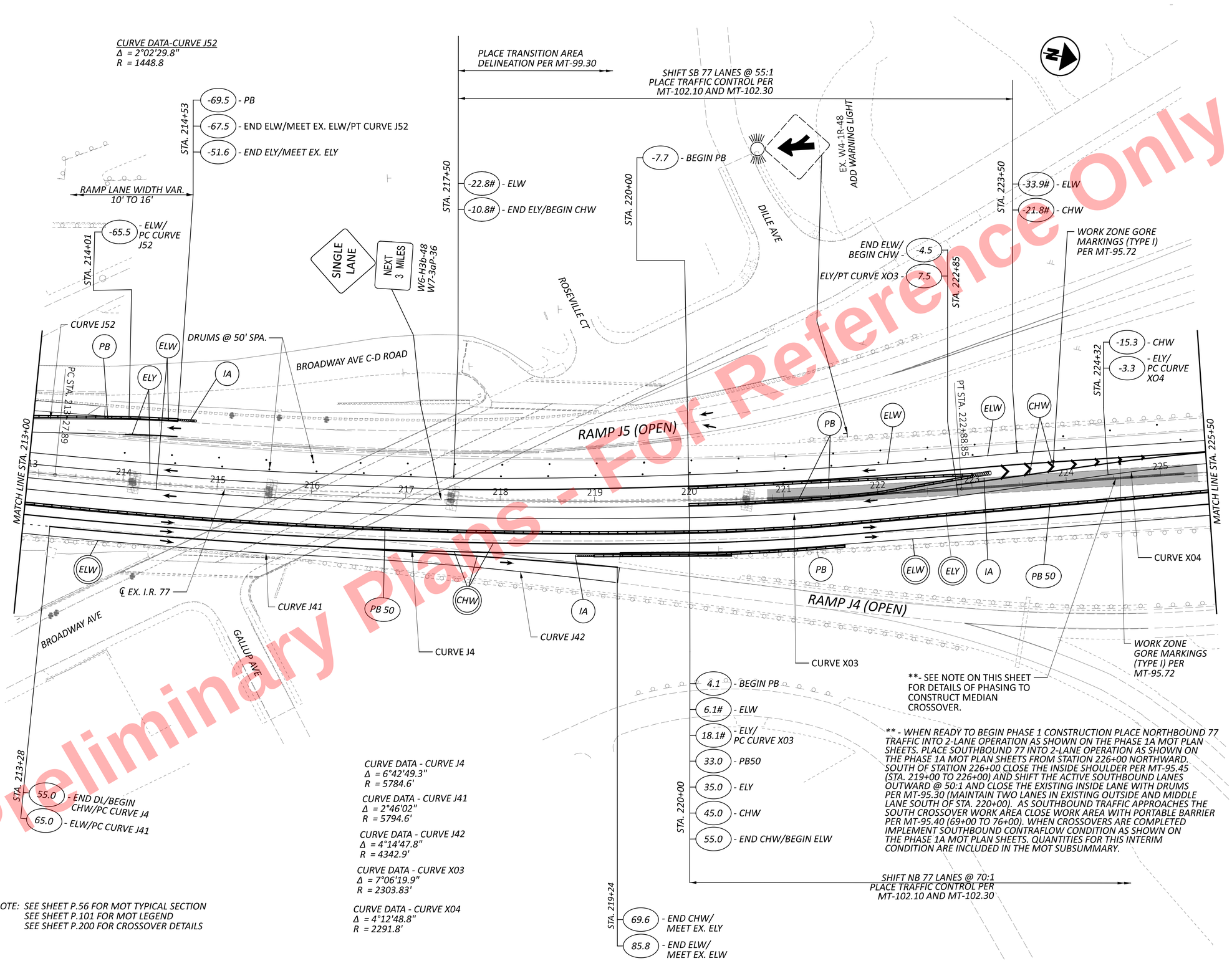

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 213+00 TO STA. 225+50

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.115 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_i077 - Plan 15 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:34 AM USER: kperkins
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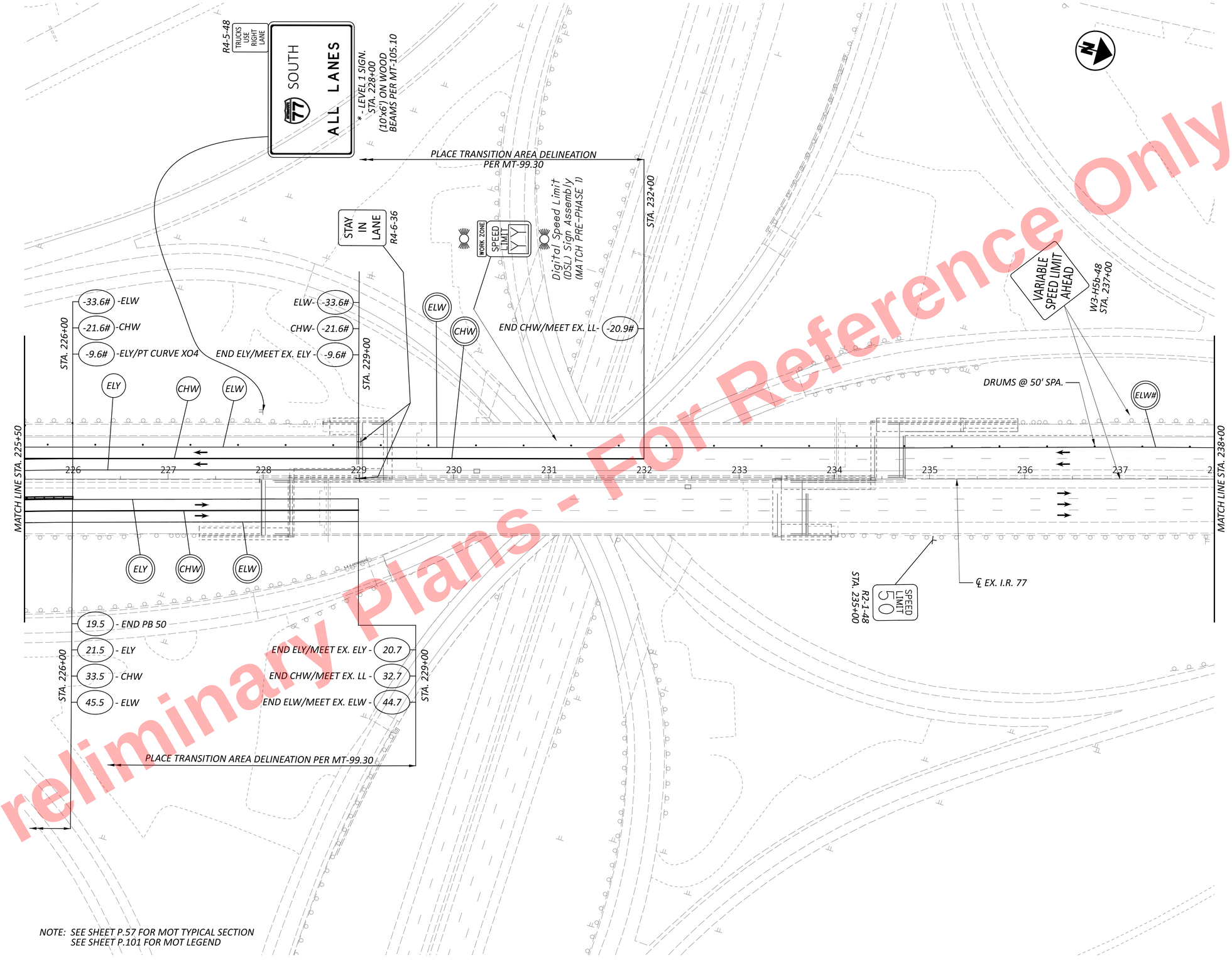

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 225+50 TO STA. 238+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.116 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 16 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:35 AM USER: kperkins
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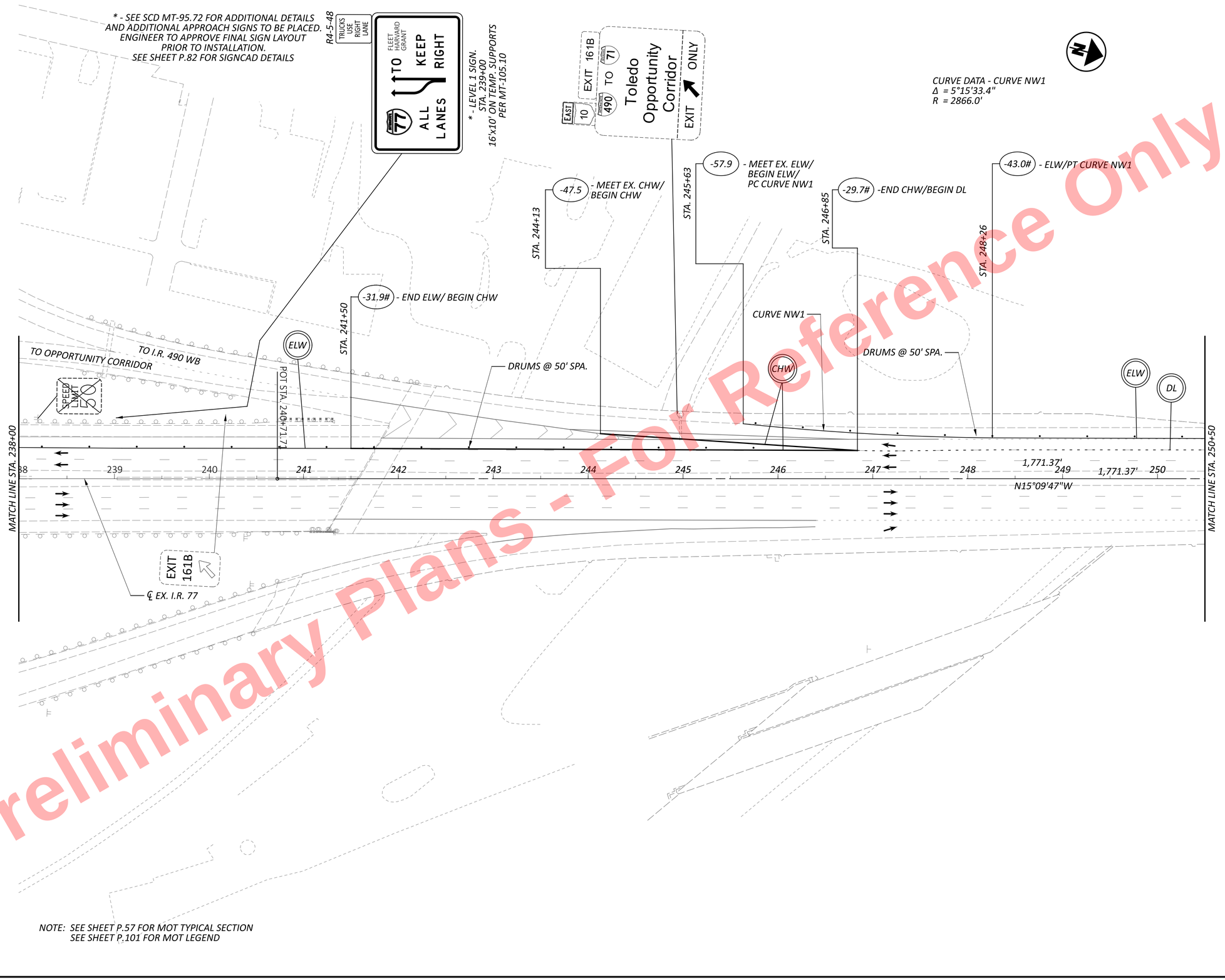

NOTE: SEE SHEET P.57 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 238+00 TO STA. 250+50

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.117 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 17 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:36 AM USER: kperkins
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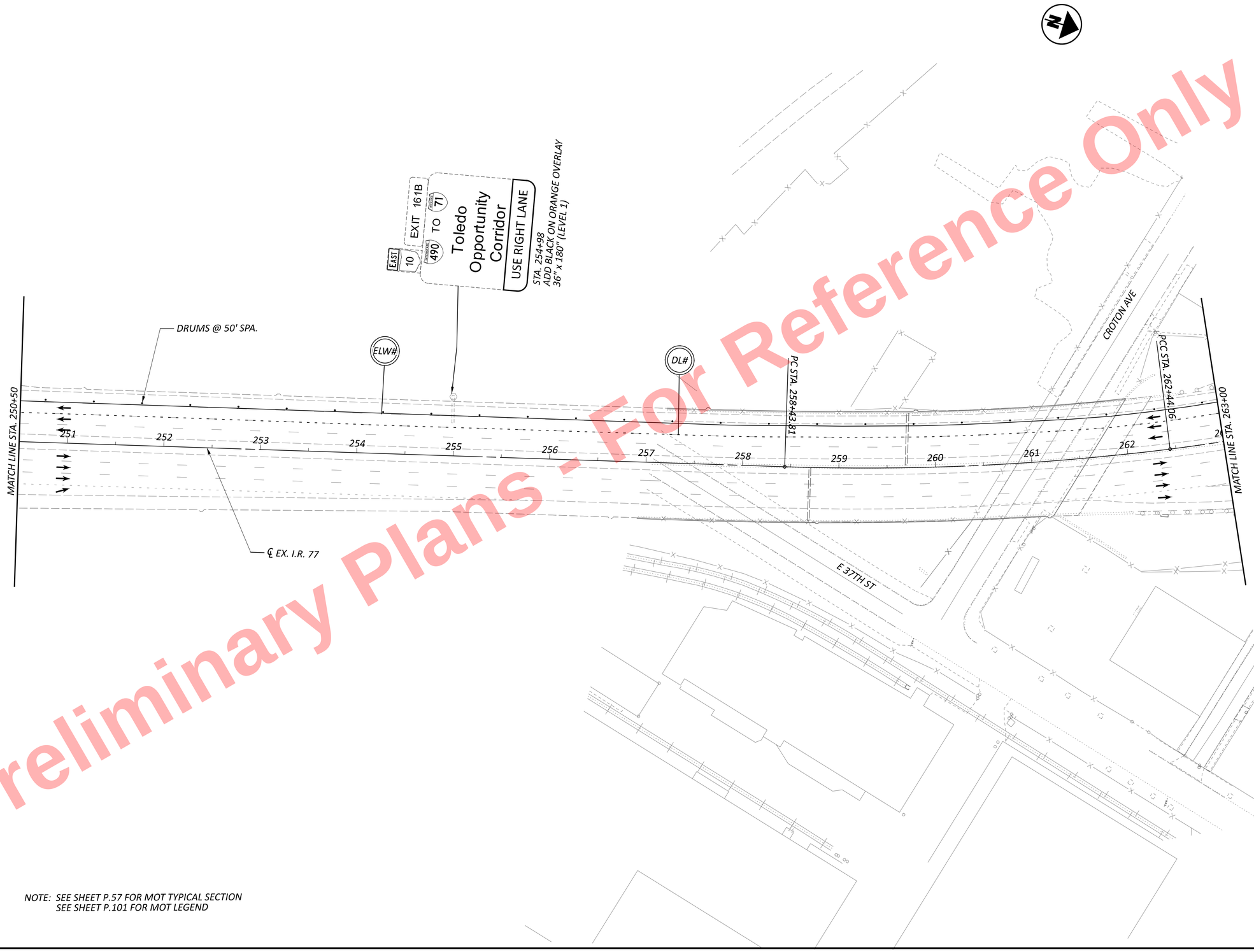
Preliminary Plans - For Reference Only



NOTE: SEE SHEET P.57 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 250+50 TO STA. 263+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.118 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 18 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:36 AM USER: kperkins
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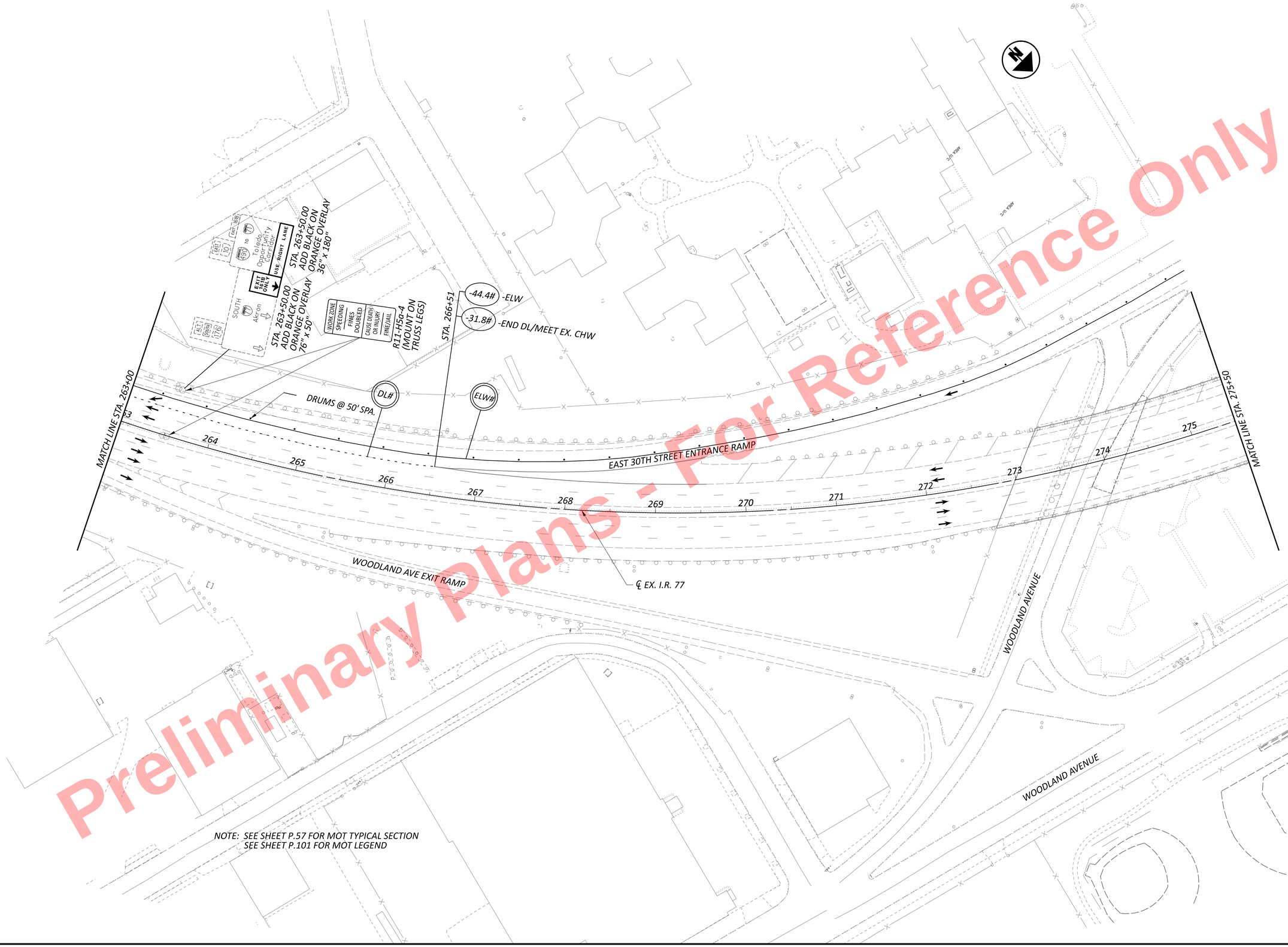
Preliminary Plans - Not For Reference Only



NOTE: SEE SHEET P.57 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND

HORIZONTAL
SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 263+00 TO STA. 275+50

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.119 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 19 |Sheet| PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:37 AM USER: kperkins
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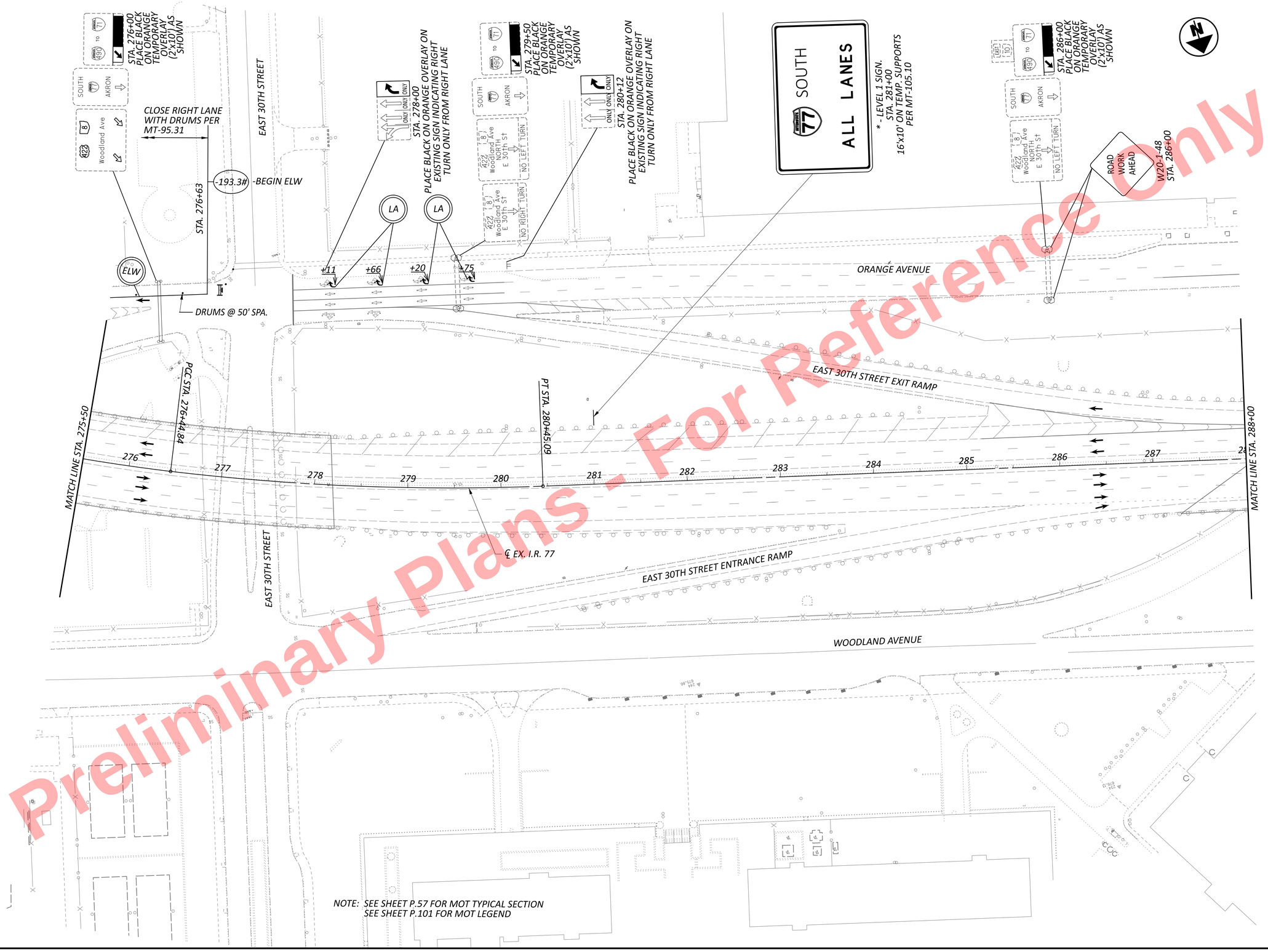
Preliminary Plans - For Reference Only



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 275+50 TO STA. 288+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.120 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 20 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:38 AM USER: kperkins
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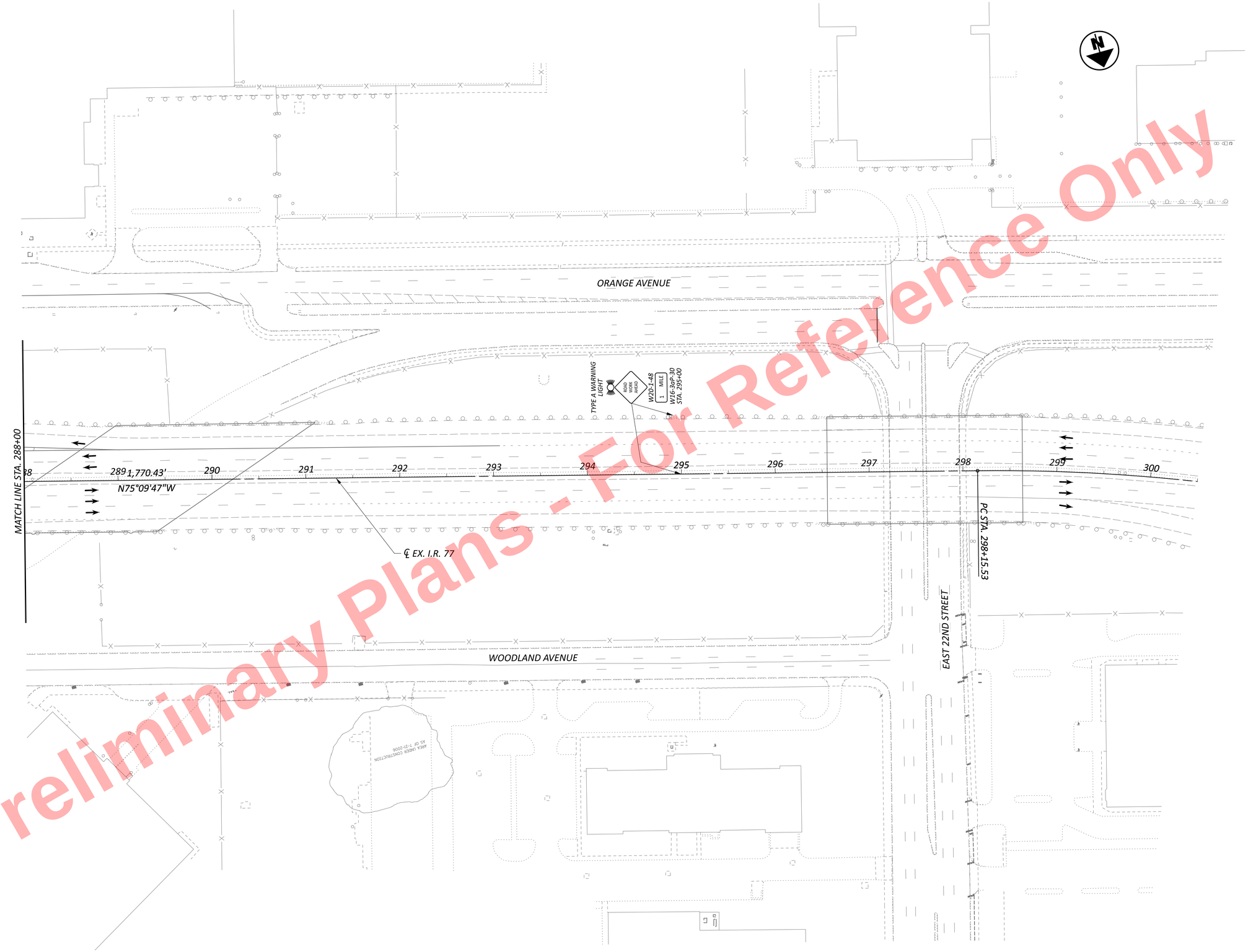
Preliminary Plans - For Reference Only



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 288+00 TO STA. 300+50

DESIGN AGENCY
HNTB

DESIGNER	CC
REVIEWER	MTR 05/01/26
PROJECT ID	105743
SHEET	P.121
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 21 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:38 AM USER: kperkins
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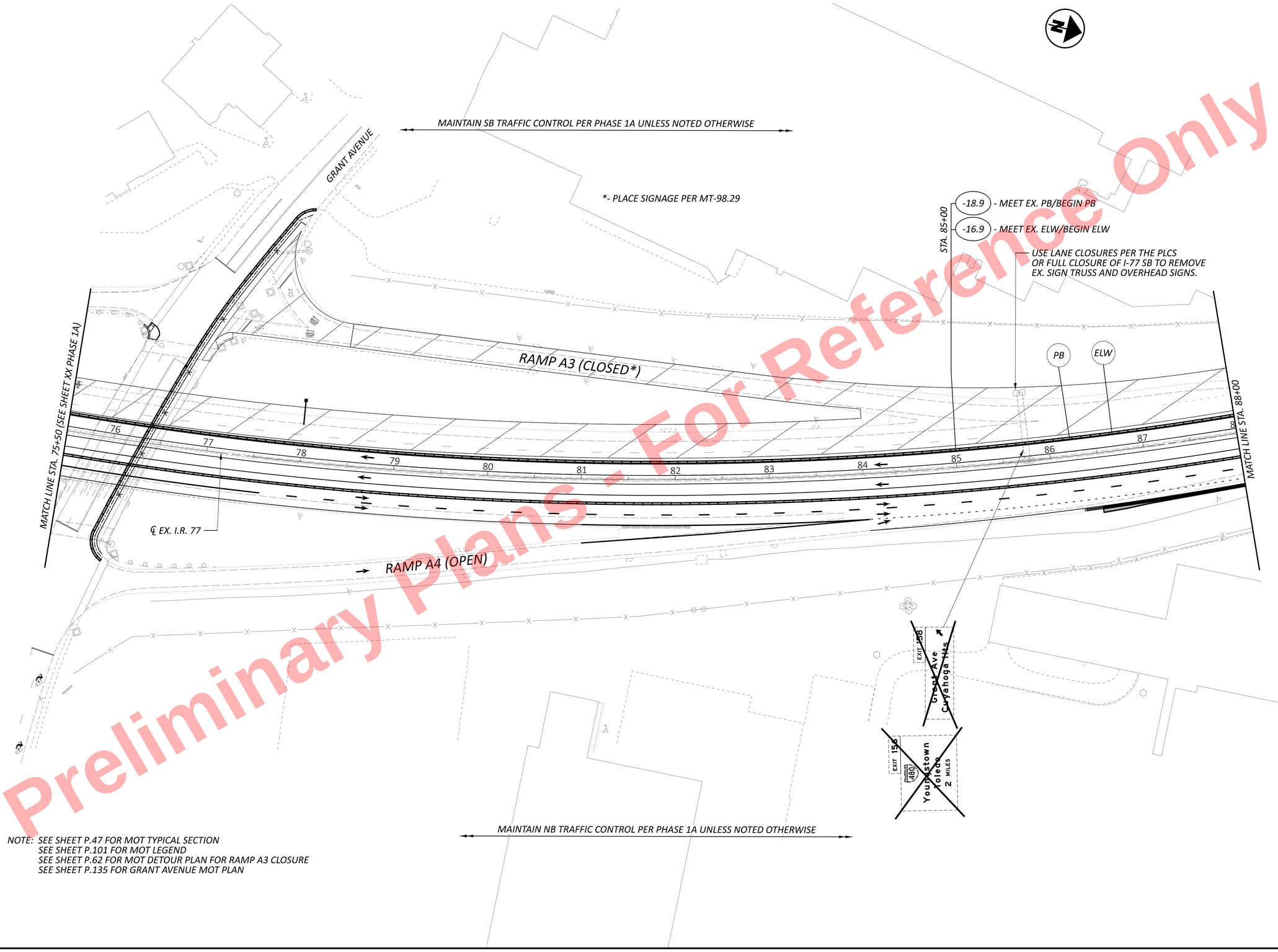

NOTE: SEE SHEET P.47 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND
SEE SHEET P.62 FOR MOT DETOUR PLAN FOR RAMP A3 CLOSURE
SEE SHEET P.135 FOR GRANT AVENUE MOT PLAN

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1B
STA. 75+50 TO STA. 88+00

DESIGN AGENCY
HNTB

DESIGNER	CC
REVIEWER	MTR 05/01/26
PROJECT ID	105743
SHEET	P.122
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:54 AM USER: kperkins
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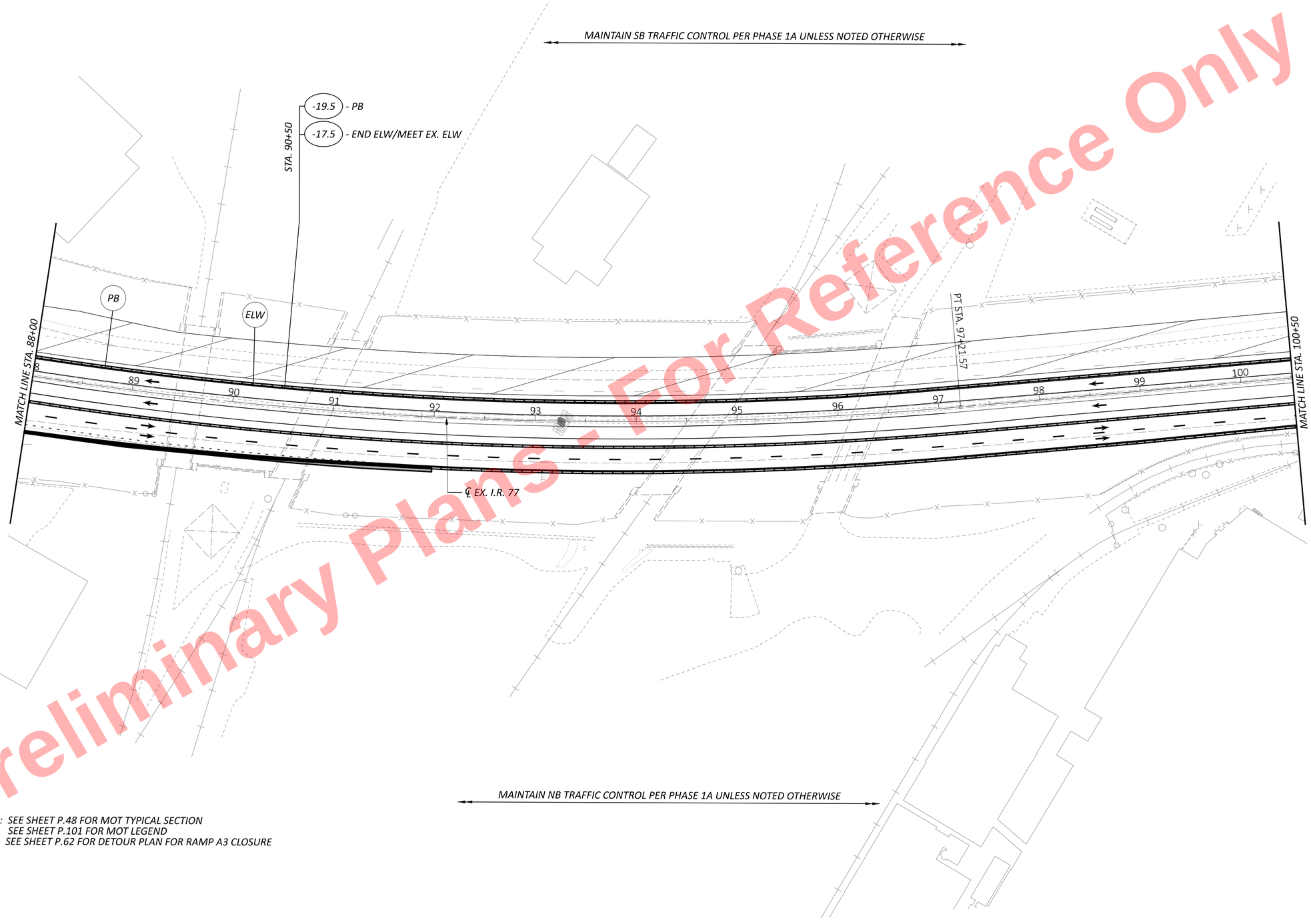
Preliminary Plans - For Reference Only



NOTE: SEE SHEET P.48 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND
SEE SHEET P.62 FOR DETOUR PLAN FOR RAMP A3 CLOSURE

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1B
STA. 88+00 TO STA. 100+50

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.123 TOTAL P.1269

MODEL: CLP_I077 - Plan S [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:55 AM USER: kperkins
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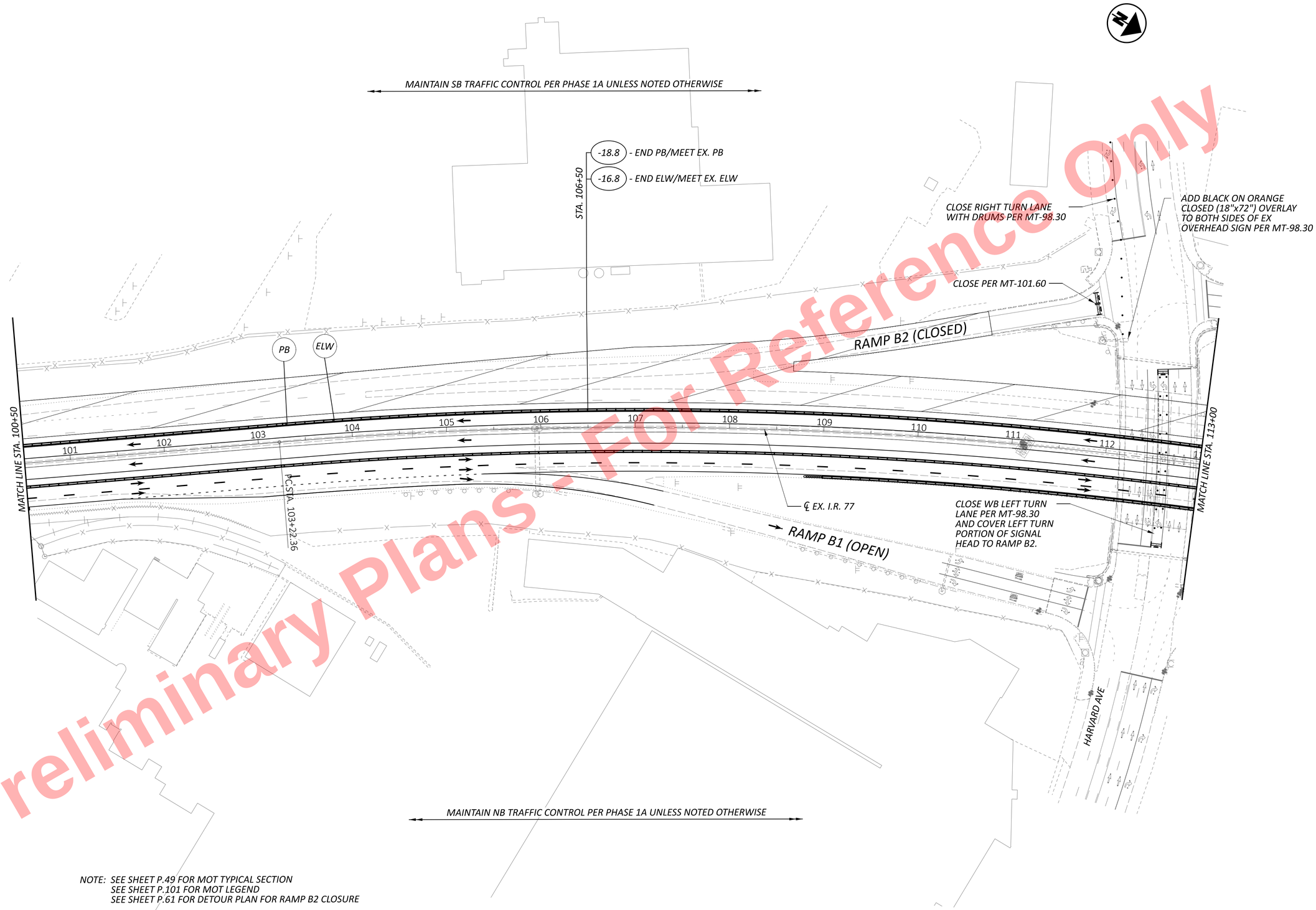

Preliminary Plans - For Reference Only

NOTE: SEE SHEET P.49 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND
SEE SHEET P.61 FOR DETOUR PLAN FOR RAMP B2 CLOSURE

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1B
STA. 100+50 TO STA. 113+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.124 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:56 AM USER: kperkins
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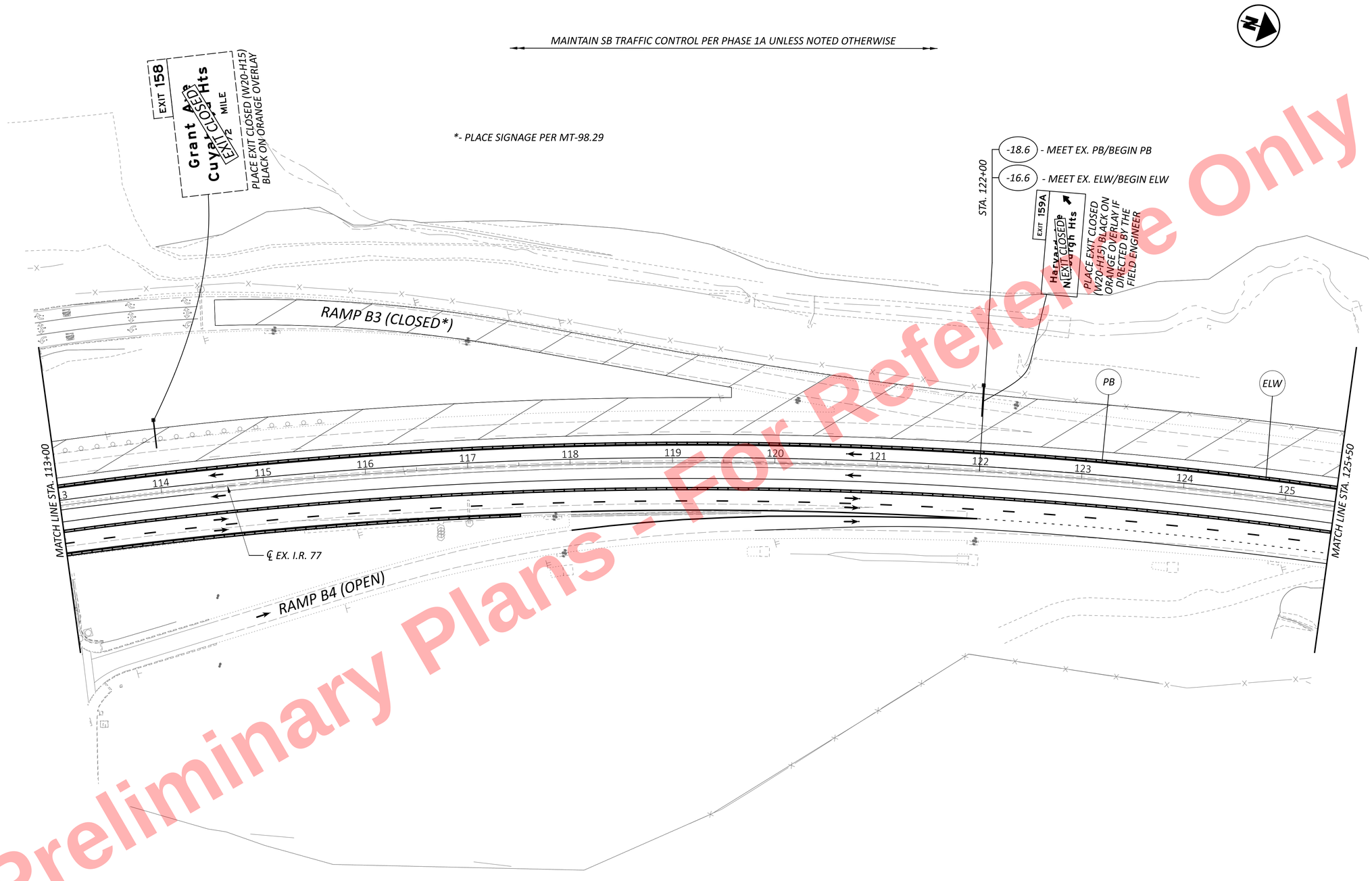

NOTE: SEE SHEET P.51 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND
SEE SHEET P.64 FOR DETOUR PLAN FOR RAMP B3 CLOSURE

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:56 AM USER: kperkins
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HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1B
STA. 113+00 TO STA. 125+50

DESIGN AGENCY
HNTB

DESIGNER
CC

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.125 | TOTAL P.1269

Preliminary Plans - For Reference Only

MAINTAIN SB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

-18.6 - END PB/MEET EX. PB

-16.6 - END ELW/MEET EX. ELW

STA. 130+00

VILLAGE OF NEWBURGH HEIGHTS

PB

ELW

℄ EX. I.R. 77

MATCH LINE STA. 125+50

MATCH LINE STA. 138+00

126 127 128 129 130 131 132 133 134 135 136 137

PT STA. 131+31.78

RAMP C1 (OPEN)

MAINTAIN NB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

CITY OF CLEVELAND

NOTE: SEE SHEET P.52 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1B
STA. 125+50 TO STA. 138+00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:57 AM USER: kperkins
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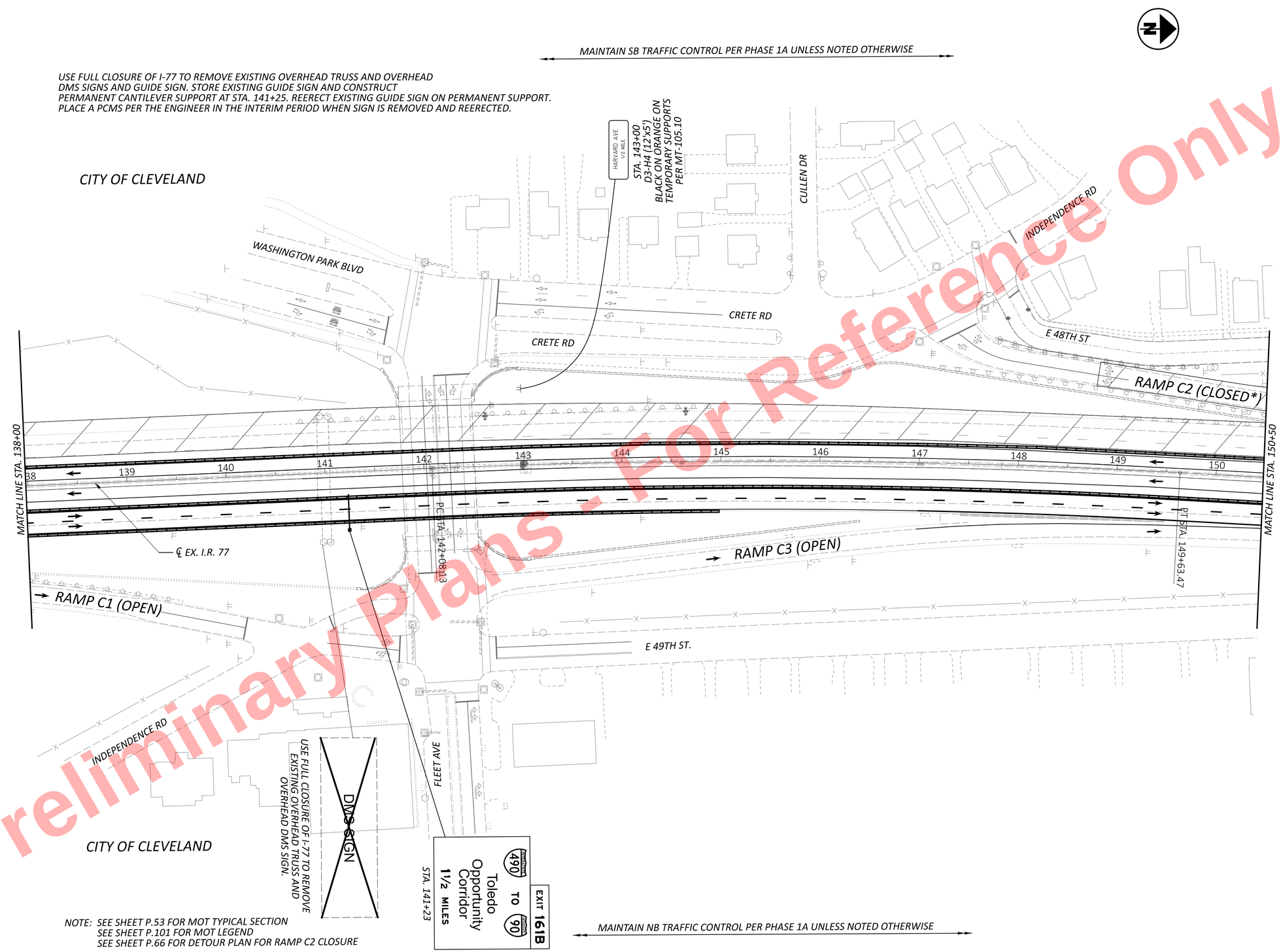
DESIGN AGENCY
HNTB

DESIGNER CC

REVIEWER MTR 05/01/26

PROJECT ID 105743

SHEET P.126 TOTAL P.1269



NOTE: SEE SHEET P.53 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND
SEE SHEET P.66 FOR DETOUR PLAN FOR RAMP C2 CLOSURE

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1B
STA. 138+00 TO STA. 150+50

DESIGN AGENCY
HNTB

DESIGNER
CC

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.127 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:57 AM USER: kperkins
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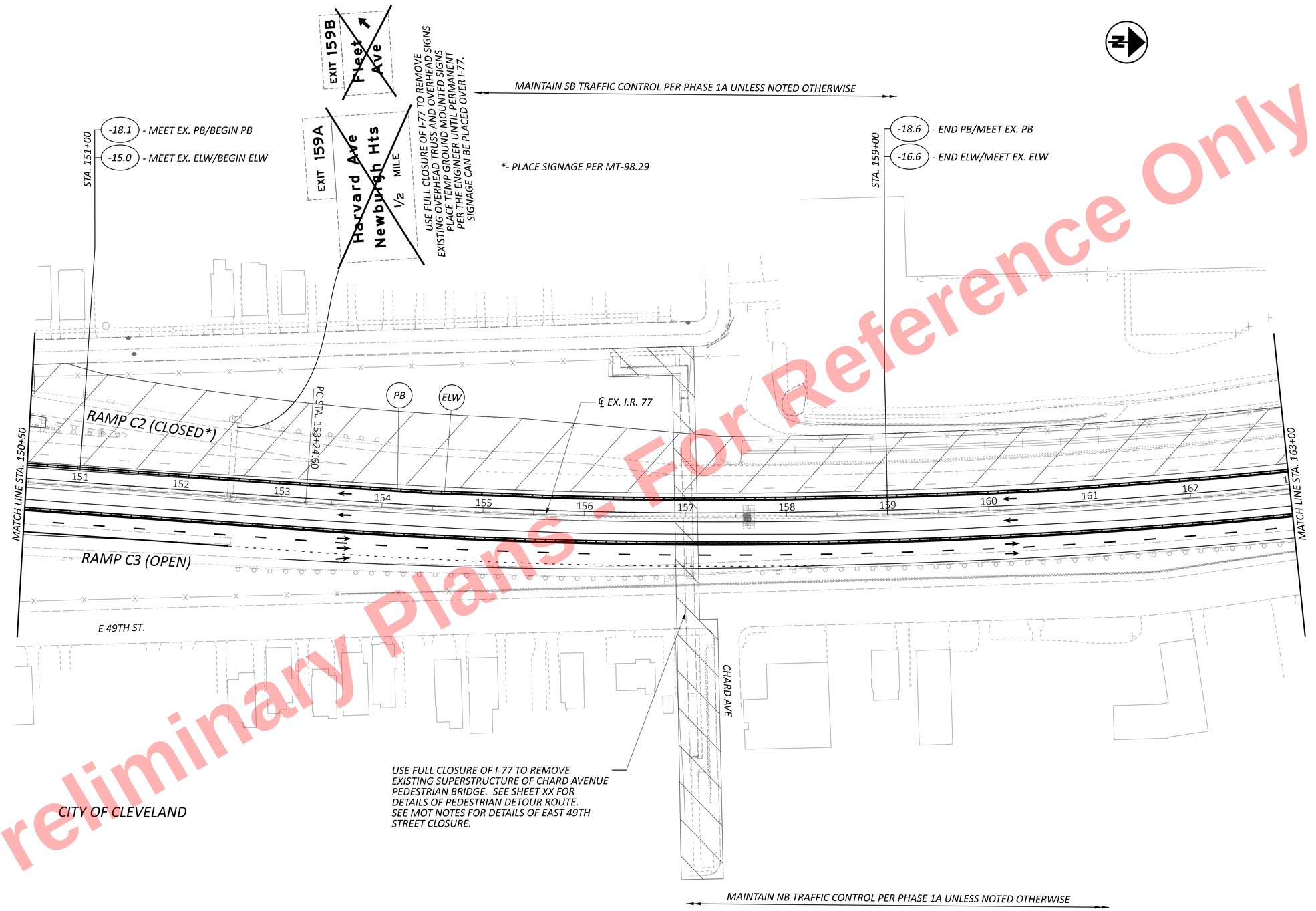

NOTE: SEE SHEET P.54 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND
SEE SHEET P.66 FOR DETOUR PLAN FOR RAMP C2 CLOSURE

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1B
STA. 150+50 TO STA. 163+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.128 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:58 AM USER: kperkins
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Preliminary Plans - For Reference Only

MAINTAIN SB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

EXIT 159B
Fleet Ave
1/4 MILE

EXIT 159A
Harvard Ave
Newburgh Hts
1 MILE

USE FULL CLOSURE OF I-77 TO REMOVE EXISTING OVERHEAD TRUSS AND OVERHEAD SIGNS
PLACE TEMP GROUND MOUNTED SIGNS PER THE ENGINEER UNTIL PERMANENT SIGNAGE CAN BE PLACED OVER I-77.

N

MATCH LINE STA. 163+00

PT STA. 165+80.57

PC STA. 175+28.06

MATCH LINE STA. 175+50

163 164 165 166 167 168 169 170 171 172 173 174 175

E 49TH ST

E 49TH ST

℄ EX. I.R. 77

CITY OF CLEVELAND

MORGANA RUN TRAIL

MAINTAIN NB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET P.54 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1B
STA. 163+00 TO STA. 175+50

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:59 AM USER: kperkins
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DESIGN AGENCY
HNTB

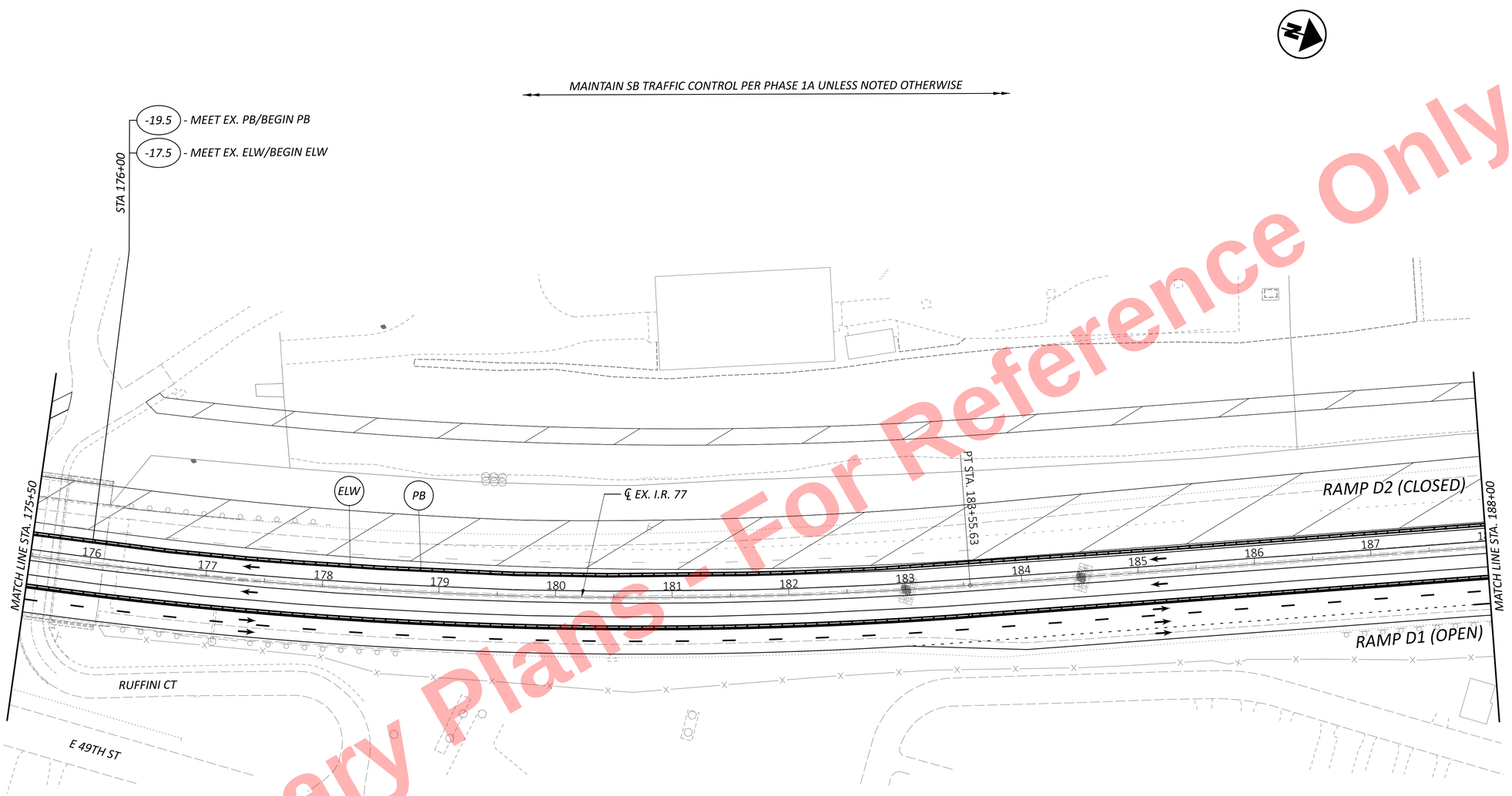
DESIGNER
CC

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.129 | TOTAL P.1269

Preliminary Plans - For Reference Only



NOTE: SEE SHEET P.54 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND
SEE SHEET P.69 FOR DETOUR PLAN FOR RAMP D2 CLOSURE

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1B
STA. 175+50 TO STA. 188+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.130 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 12 |Sheet| PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:59 AM USER: kperkins
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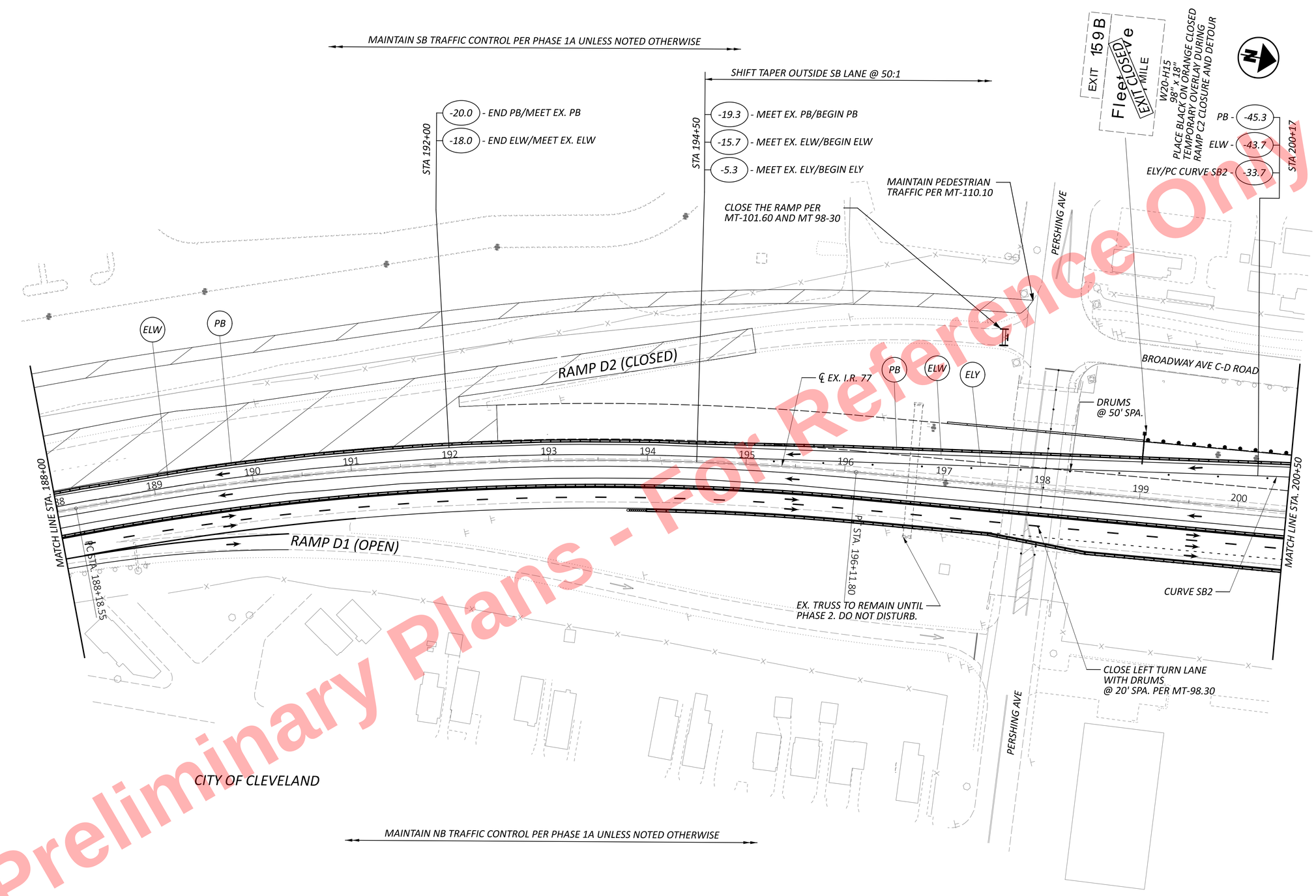

Preliminary Plans - For Reference Only

NOTE: SEE SHEET P.55 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND
SEE SHEET P.66 FOR DETOUR PLAN FOR RAMP D2 CLOSURE

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1B
STA. 188+00 TO STA. 200+50

DESIGN AGENCY
HNTB

DESIGNER
CC

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.131 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 13 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:00 AM USER: kperkins
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CURVE DATA - CURVE SB2
Δ = 3°18'19.7"
R = 2292.0'

MAINTAIN SB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

-51.1 - END PB
-47.5 - ELW/BEGIN DL
-37.5 - ELY/PT CURVE SB2
-35.5 - BEGIN PB
STA. 201+50

W1-4L-48
STA. 201+50

W1-4L-48
STA. 208+00

WORK ZONE SPEED LIMIT YY

RELOCATE SPEED LIMIT ASSEMBLY FOR CHANGE IN TRAFFIC PATTERN.

STA. 210+75
-66.0 - ELW
-50.0 - CHW
-47.5 - END DL/BEGIN CHW
-37.5 - ELY
-35.5 - PB

N

BROADWAY AVE C-D ROAD

ELY
DRUMS @ 50' SPA.
IA
DL
ELW
PB
ELW
CHW

CURVE SB2

201 202 203 204 205 206 207 208 209 210 211 212 213

MATCH LINE STA. 200+50

MATCH LINE STA. 213+00

℄ EX. I.R. 77

RAMP E1 (OPEN)

E 46TH PL

CITY OF CLEVELAND

FINN AVE

BROADWAY AVE

MAINTAIN NB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET P.55 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND

Preliminary Plans - Not For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1B
STA. 200+50 TO STA. 213+00

DESIGN AGENCY
HNTB

DESIGNER
CC

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.132 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 14 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:00 AM USER: kperkins
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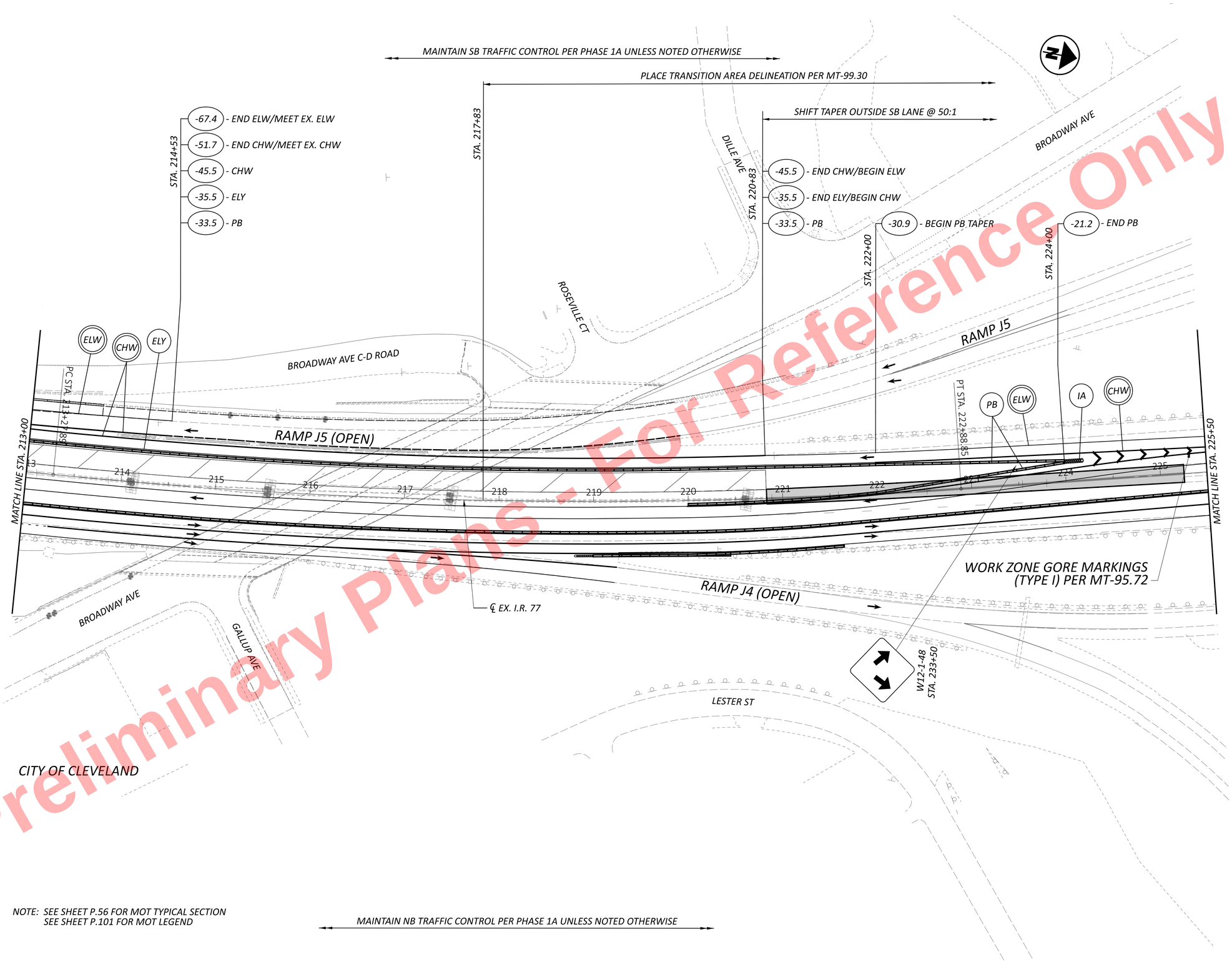

NOTE: SEE SHEET P.56 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1B
STA. 213+00 TO STA. 225+50

DESIGN AGENCY
HNTB

DESIGNER
CC

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.133 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 15 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:01 AM USER: kperkins
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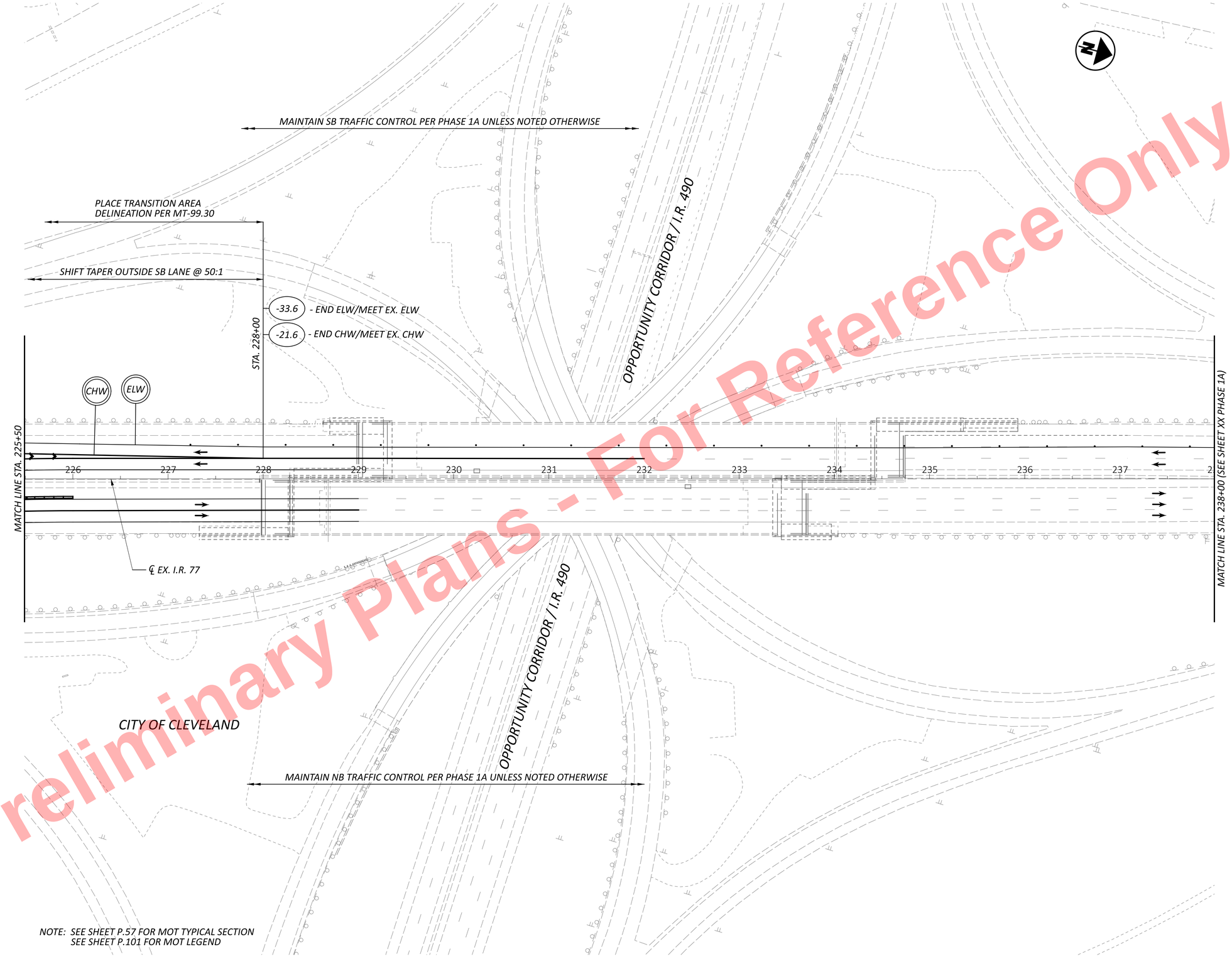

NOTE: SEE SHEET P.57 FOR MOT TYPICAL SECTION
SEE SHEET P.101 FOR MOT LEGEND

Preliminary Plans - Not For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1B
STA. 225+50 TO STA. 238+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.134 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 16 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:01 AM USER: kperkins
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Preliminary Plans - For Reference Only

CLOSE SIDEWALK PER MT-110.10

RAMP A3 (CLOSED)

I.R. 77 SB

I.R. 77 NB

RAMP A4 (OPEN)

PC STA. 16+68.29

26' R

+59

GRANT AVE.

17

18

19

20

21

22

PB

CHANNELIZING DEVICE PER MT-110.10

SIDEWALK CLOSED PER MT-110.10

R = 25'

PEDESTRIAN DETOUR ROUTE (SIGN PER MT-110.10)

+07

5' MIN.

CONVERT CURB LANE TO RIGHT TURN ONLY PLACE SIGNS AND WORK ZONE LANE ARROWS

LA

R3-H8bb-30
STA 22+25
NOTE: SECOND SIGN TO BE PLACED 100' EAST (NOT SHOWN ON SHEET)

ONLY

ONLY

CL EX. R/W GRANT AVENUE

CLOSE RIGHT LANE WITH PB PER MT-95.41 (TOE OF BARRIER 1' OFFSET FROM EX. LANE LINE)

PC STA. 75+26.12

12'

RAMP A2 (OPEN)

RAMP A1 (OPEN)

ONLY ONLY

NOTE: SEE SHEET P.101 FOR MOT LEGEND
SEE SHEET P.62 FOR DETOUR FOR RAMP A3 CLOSURE

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1B
GRANT AVENUE

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.135 TOTAL P.1269

CUY-77-11.41 - PART 1

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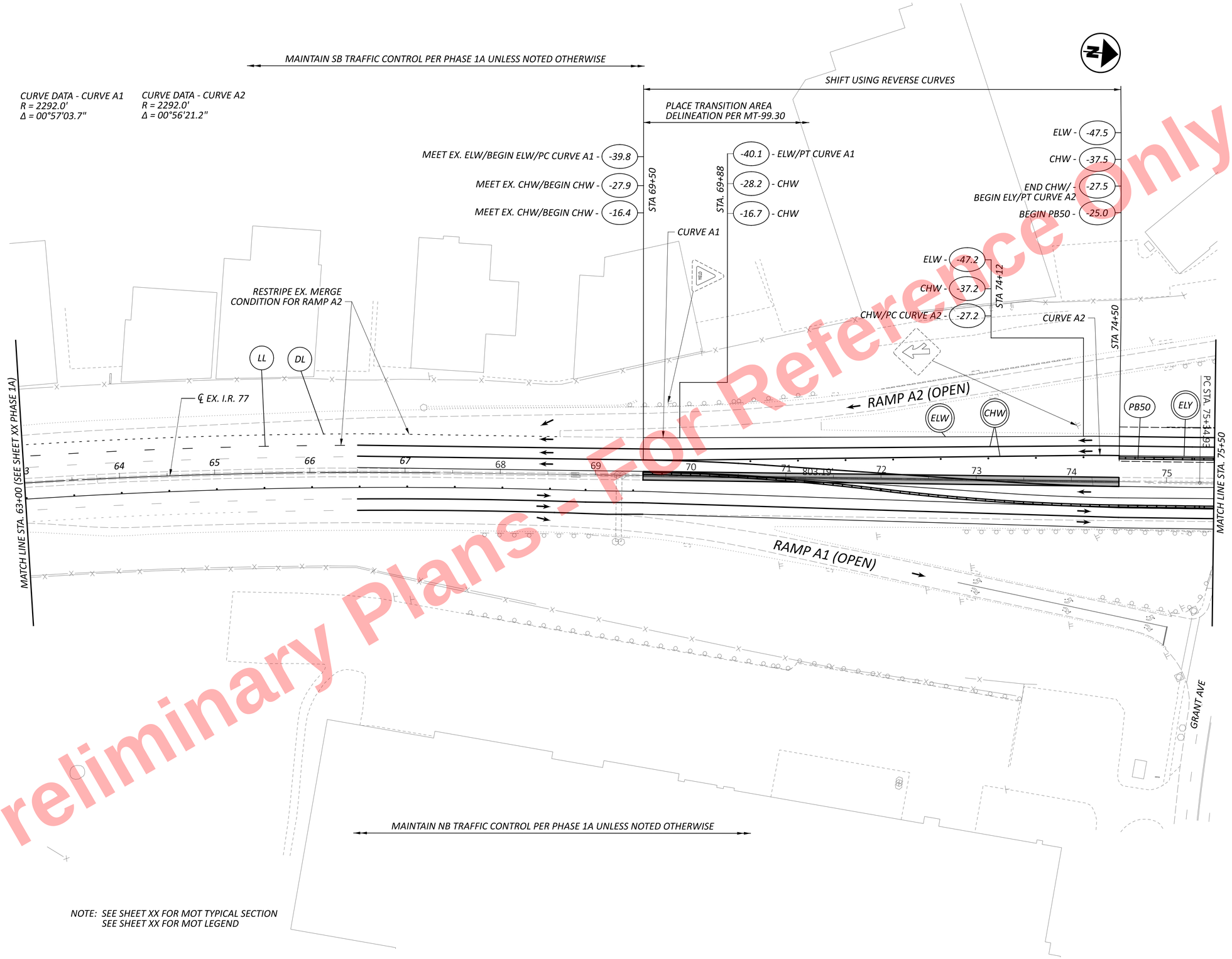

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1C
STA. 63+00 TO STA. 75+50

DESIGN AGENCY
HNTB

DESIGNER
CC

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.136 TOTAL P.1269

CUY-77-11.41 - PART 1

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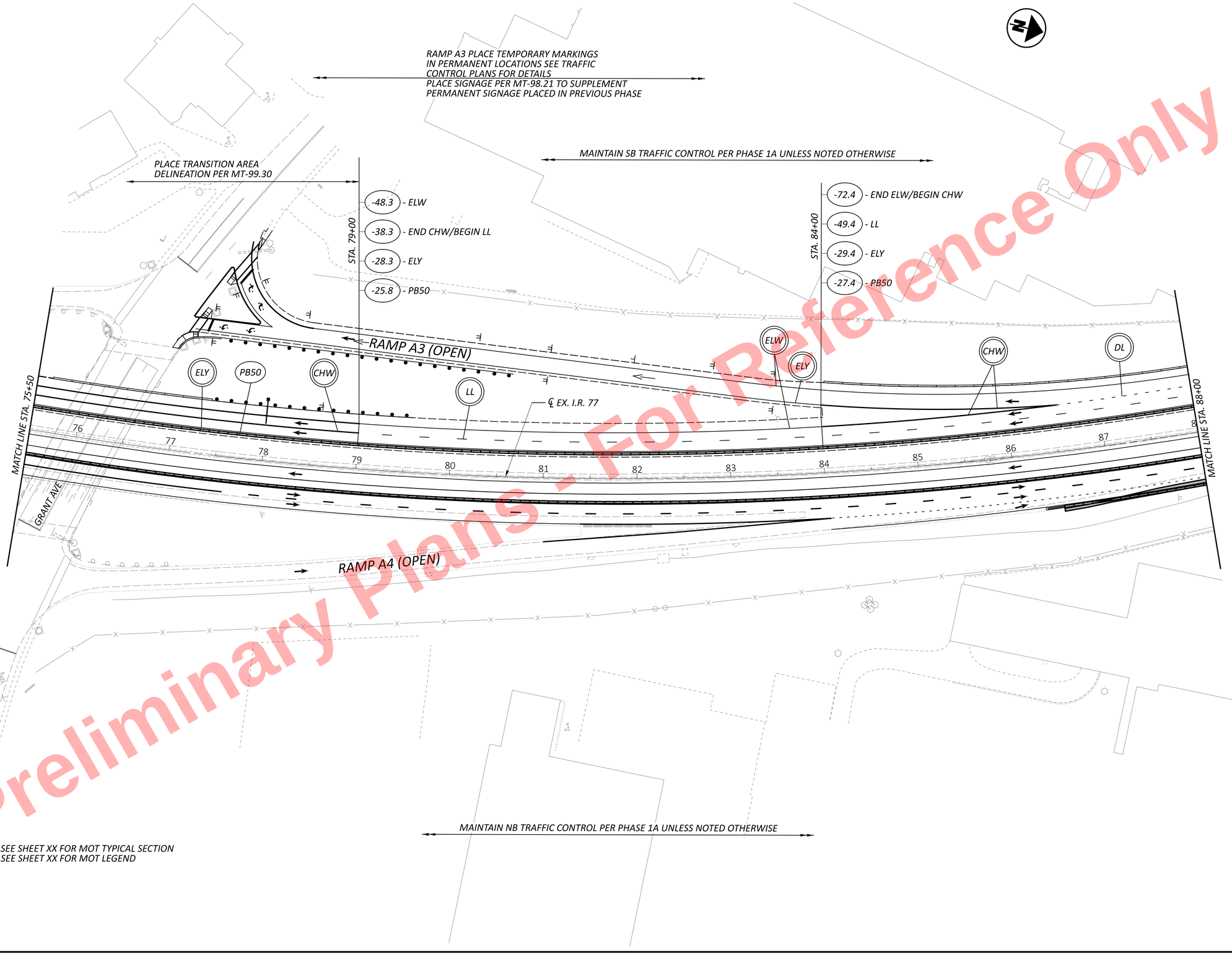

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1C
STA. 75+50 TO STA. 88+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.137 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:16 AM USER: kperkins
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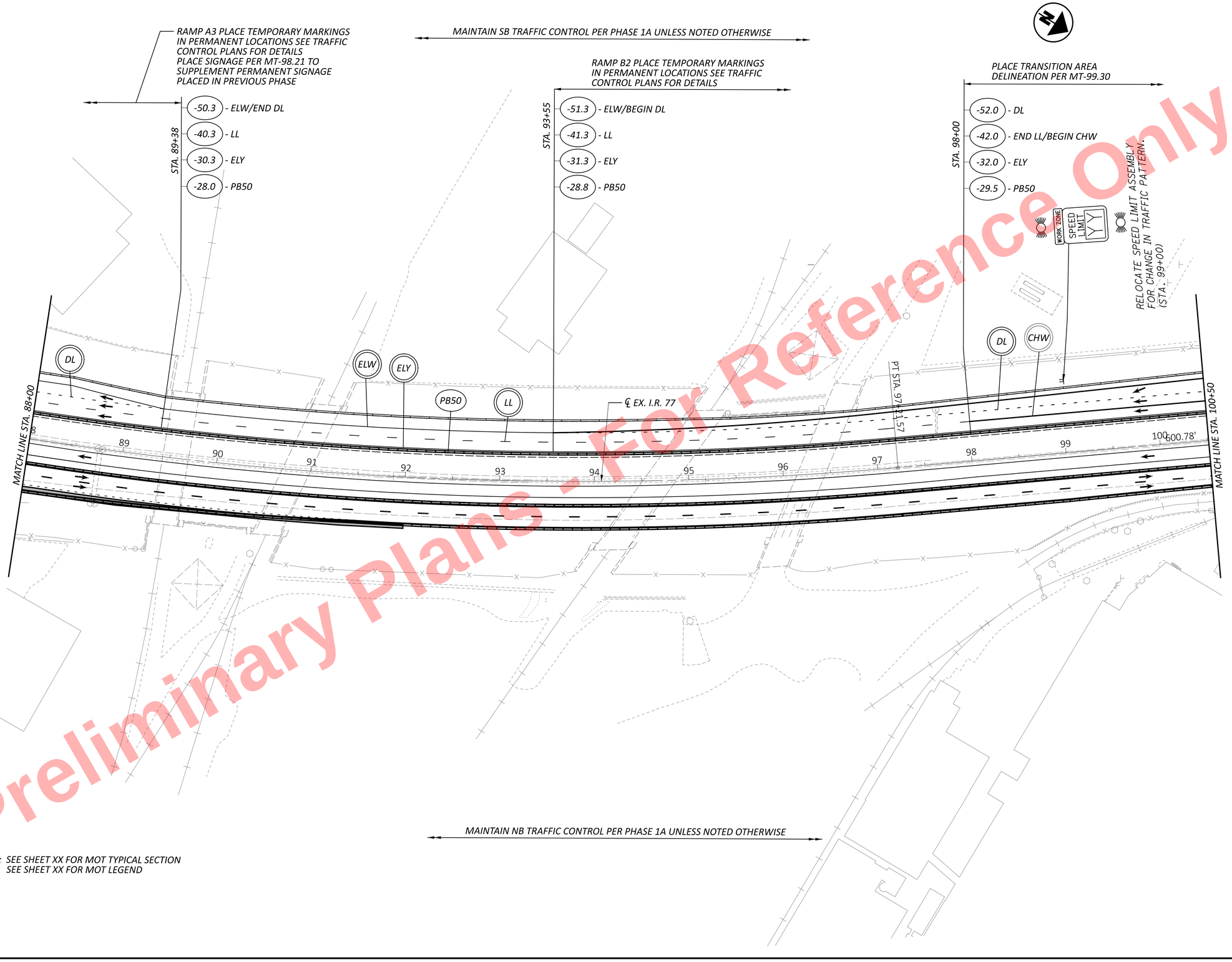

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1C
STA. 88+00 TO STA. 100+50

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.138 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan S [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:17 AM USER: kperkins
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CURVE DATA - CURVE SB1C1
R = 2292.0'
Δ = -04°40'02.9"

-73.5 - ELW
-58.1 - CHW
-52.1 - CHW
STA. 104+28

RAMP B2 PLACE TEMPORARY MARKINGS IN PERMANENT LOCATIONS SEE TRAFFIC CONTROL PLANS FOR DETAILS
PLACE SIGNAGE PER MT-98.10 TO SUPPLEMENT PERMANENT SIGNAGE PLACED IN PREVIOUS PHASE.

PLACE TRANSITION AREA DELINEATION PER MT-99.30

MATCH SB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

-66.9 - ELW
-52.0 - END DL/BEGIN CHW
-42.0 - CHW
-32.0 - ELY/PC CURVE SB1C1
-29.5 - PB50
STA. 101+00

-34.3 - CHW
-23.3 - ELY/PT CURVE SB1C1
-20.8 - END PB50
STA. 103+00

-16.8 - END CHW/MEET EX ELW
-4.8 - END ELY/MEET EX. ELY
STA. 106+95

-18.9 - EX. PB
-16.9 - EX. ELW
-9.7 - EX. ELY
STA. 109+00

-52.1 - END CHW
STA. 111+00

DRUMS @ 50' SPA.

DL
CURVE SB1C1
PB50
IA
CHW
ELY
ELW
ELY
RAMP B2 (OPEN)

MATCH LINE STA. 100+50
101
102
103
104
105
106
107
108
109
110
111
112
MATCH LINE STA. 113+00

PC STA. 103+22.36

CHW

℄ EX. I.R. 77

RAMP B1 (OPEN)

TYPE B WARNING LIGHTS
W1-6R-72
STA. 103+50

W1-4R-48
STA. 110+00

HARVARD AVE.

MAINTAIN NB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1C
STA. 100+50 TO STA. 113+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.139 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_i077 - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:17 AM USER: kperkins
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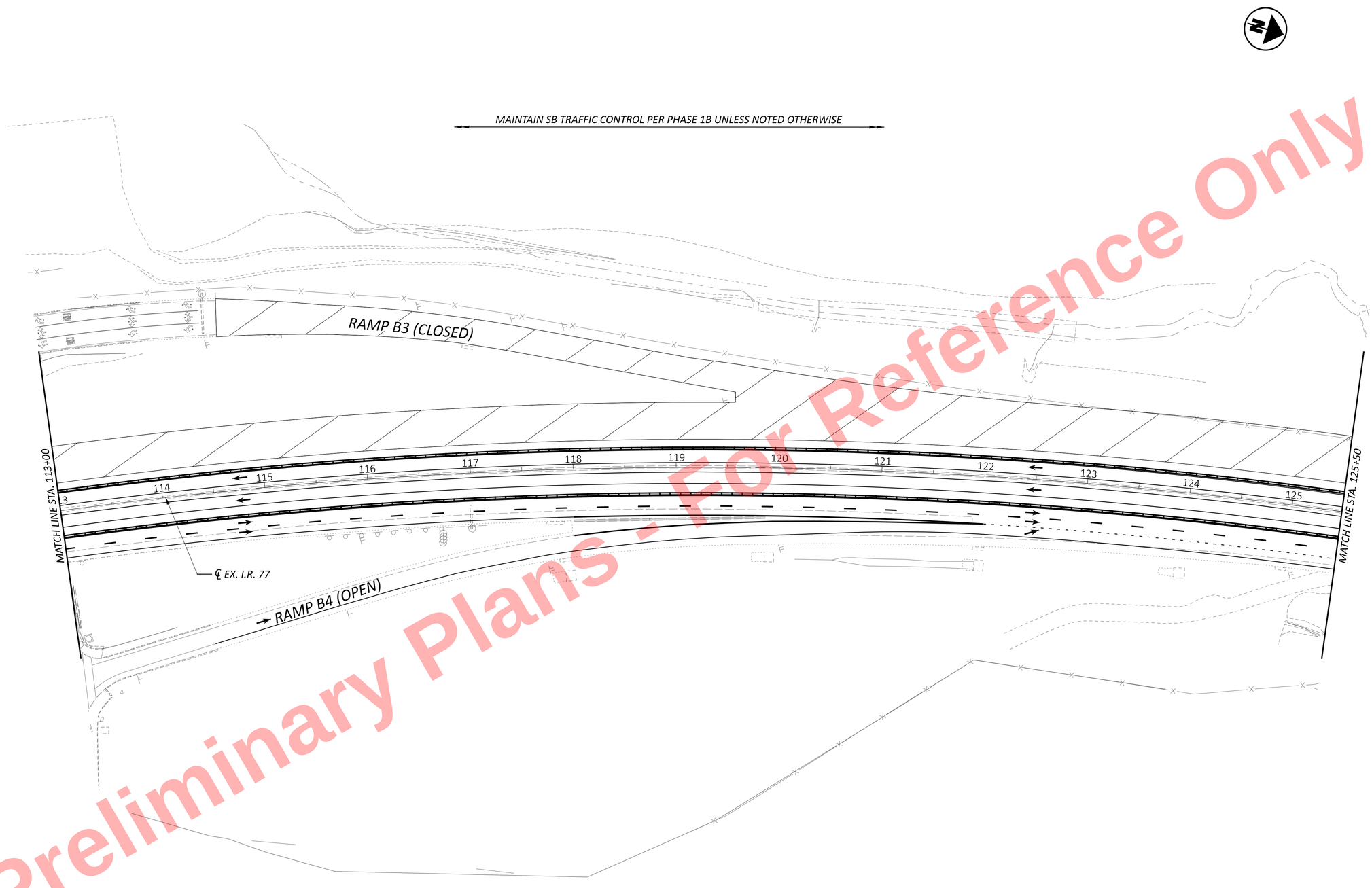
Preliminary Plans - For Reference Only



NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND
SEE SHEET XX FOR DETOUR PLAN

HORIZONTAL SCALE IN FEET
0 50 100
25

MAINTENANCE OF TRAFFIC - PHASE 1C
STA. 113+00 TO STA. 125+50

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.140 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:18 AM USER: kperkins
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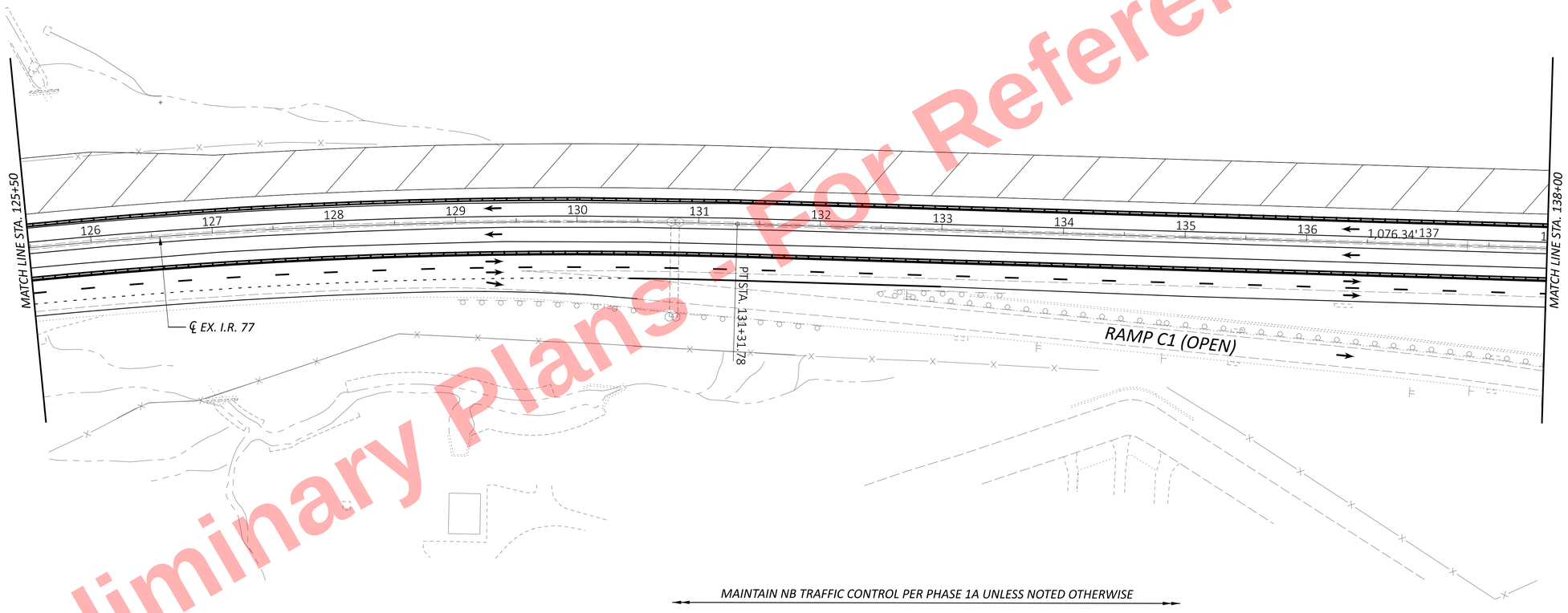
VILLAGE OF NEWBURGH HEIGHTS

MAINTAIN SB TRAFFIC CONTROL PER PHASE 1B UNLESS NOTED OTHERWISE



MAINTAIN NB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

CITY OF CLEVELAND

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1C
STA. 125+50 TO STA. 138+00

DESIGN AGENCY
HNTB

DESIGNER
CC

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.141 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:18 AM USER: kperkins
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CITY OF CLEVELAND

MAINTAIN SB TRAFFIC CONTROL PER PHASE 1B UNLESS NOTED OTHERWISE

RAMP B2 PLACE TEMPORARY MARKINGS IN PERMANENT LOCATIONS SEE TRAFFIC CONTROL PLANS FOR DETAILS
PLACE SIGNAGE PER MT-98.10 TO SUPPLEMENT PERMANENT SIGNAGE PLACED IN PREVIOUS PHASE.

-79.2 - BEGIN PB

STA. 149+50

ELY

ELW

CHW

LA

LA

LA

PB

WASHINGTON PARK BLVD

CRETE RD

INDEPENDENCE RD

RAMP C2 (OPEN)

MATCH LINE STA. 138+00

MATCH LINE STA. 150+50

138 139 140 141 142 143 144 145 146 147 148 149 150

℄ EX. I.R. 77

PC STA. 142+08.13

PT STA. 149+63.47

RAMP C3 (OPEN)

RAMP C1 (OPEN)

INDEPENDENCE RD

FLEET AVE

E 49TH ST

CITY OF CLEVELAND

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

MAINTAIN NB TRAFFIC CONTROL PER PHASE 1B UNLESS NOTED OTHERWISE

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1C
STA. 138+00 TO STA. 150+50

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.142 TOTAL P.1269

CUY-77-11.41 - PART 1

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MAINTAIN SB TRAFFIC CONTROL PER PHASE 1B UNLESS NOTED OTHERWISE
PLACE SIGNAGE PER MT-98.21

RAMP C2 PLACE TEMPORARY MARKINGS IN PERMANENT LOCATIONS SEE TRAFFIC CONTROL PLANS FOR DETAILS UNLESS NOTED OTHERWISE

STA. 153+25
-48.9 - ELY
-46.9 - PB

STA. 157+34
-49.7 - ELW
-39.7 - ELY
-37.7 - PB

STA. 161+95
-51.1 - ELW
-41.1 - END ELY/BEGIN CHW
-39.1 - PB
-18.6 - MEET EX. PB /BEGIN PB TAPER

END PB - -26.8

STA. 162+45

ELY
ELW
EAST 48TH STREET
RAMP C2 (OPEN)
PC STA. 153+21.60
ELY
PB
℄ EX. I.R. 77

Fleet EXIT
STA. 162+00
D3-1 (18"x48")
E5-H2DR
BLACK ON ORANGE SIGN ON PORTABLE SUPPORT

IA
CHW
PB

MATCH LINE STA. 150+50
MATCH LINE STA. 163+00

151 361.13' 152 153 154 155 156 157 158 159 160 161 162

E 49TH ST
E 49TH ST

CITY OF CLEVELAND
CHARD AVE

MAINTAIN NB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1C
STA. 150+50 TO STA. 163+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.143 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:19 AM USER: kperkins
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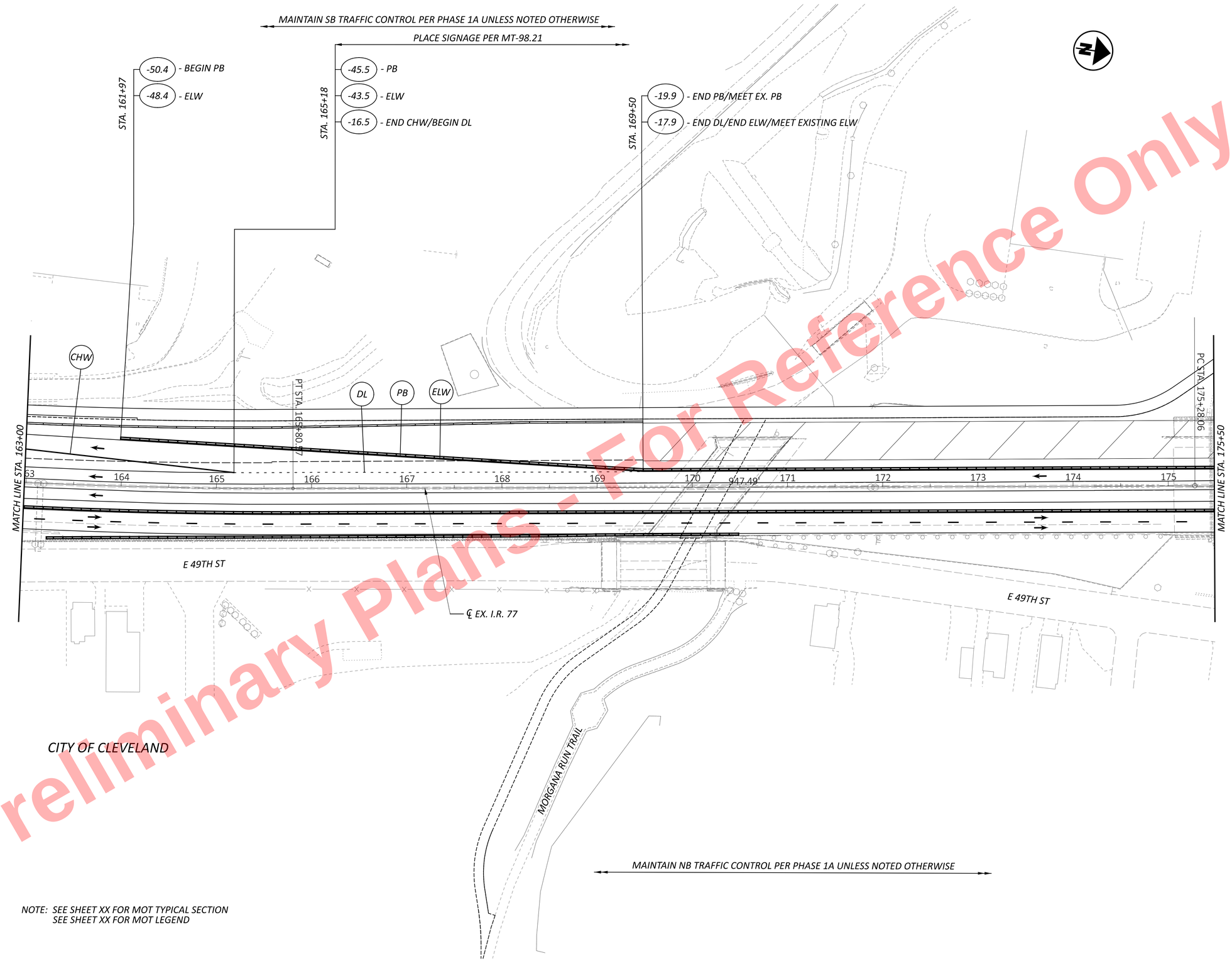

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1C
STA. 163+00 TO STA. 175+50

DESIGN AGENCY
HNTB

DESIGNER
CC

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.144 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:20 AM USER: kperkins
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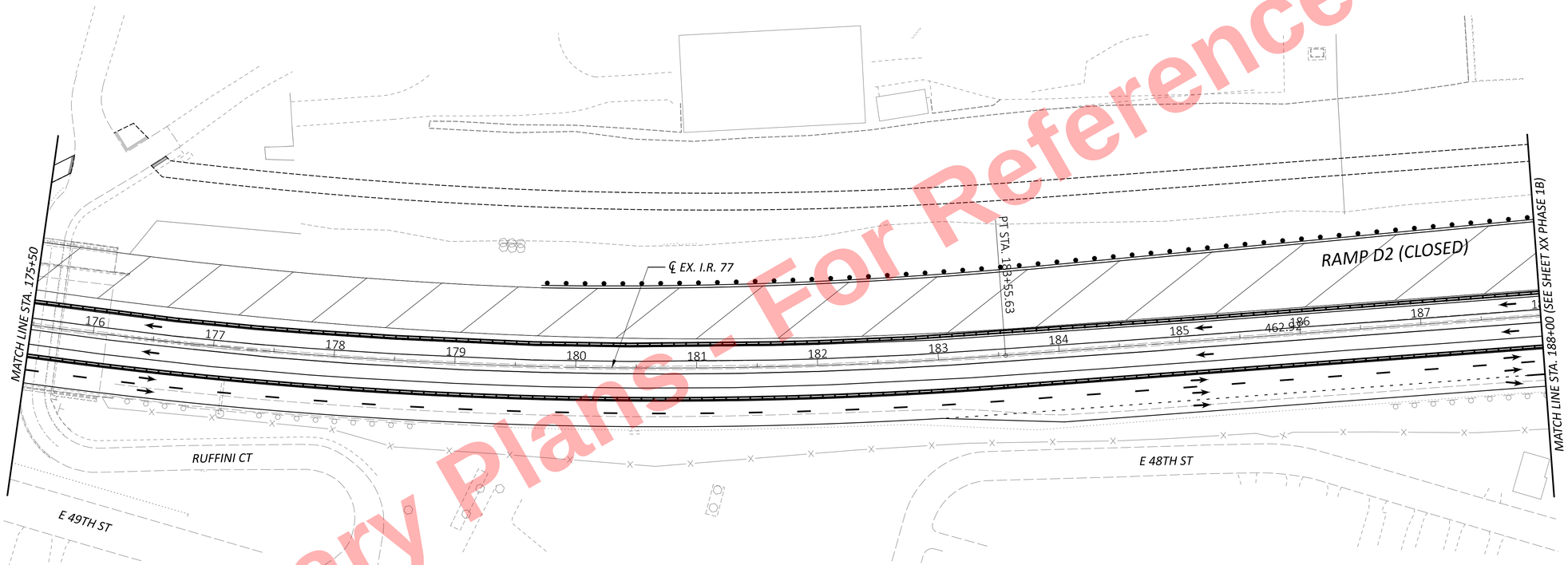
Preliminary Plans - For Reference Only

MAINTAIN SB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE



CITY OF CLEVELAND

MAINTAIN NB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1C
STA. 175+50 TO STA. 188+00

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.145 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 12 |Sheet| PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:20 AM USER: kperkins
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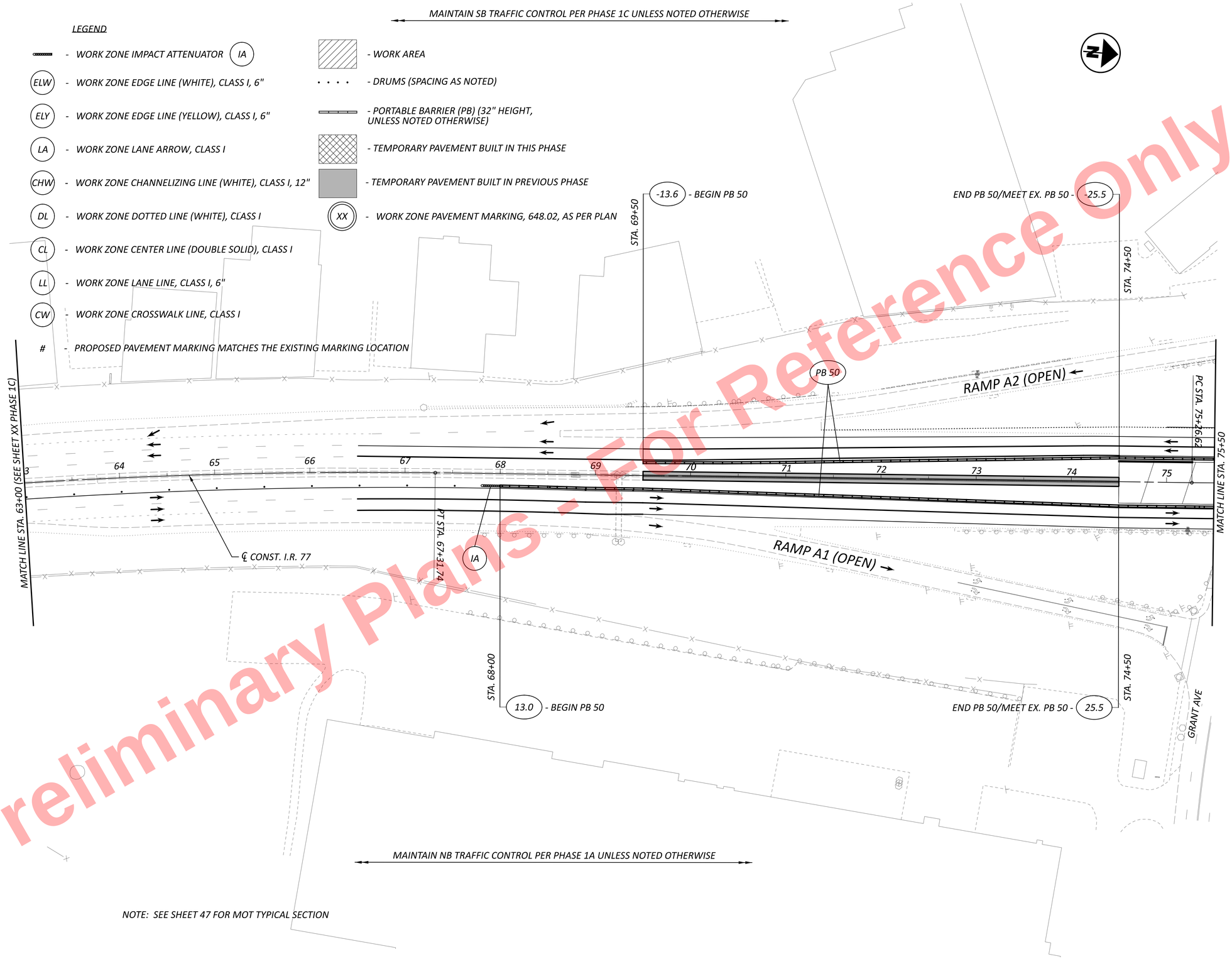
Preliminary Plans - For Reference Only

LEGEND

- WORK ZONE IMPACT ATTENUATOR (IA)
- (ELW) WORK ZONE EDGE LINE (WHITE), CLASS I, 6"
- (ELY) WORK ZONE EDGE LINE (YELLOW), CLASS I, 6"
- (LA) WORK ZONE LANE ARROW, CLASS I
- (CHW) WORK ZONE CHANNELIZING LINE (WHITE), CLASS I, 12"
- (DL) WORK ZONE DOTTED LINE (WHITE), CLASS I
- (CL) WORK ZONE CENTER LINE (DOUBLE SOLID), CLASS I
- (LL) WORK ZONE LANE LINE, CLASS I, 6"
- (CW) WORK ZONE CROSSWALK LINE, CLASS I
- # - PROPOSED PAVEMENT MARKING MATCHES THE EXISTING MARKING LOCATION

- WORK AREA
- DRUMS (SPACING AS NOTED)
- PORTABLE BARRIER (PB) (32" HEIGHT, UNLESS NOTED OTHERWISE)
- TEMPORARY PAVEMENT BUILT IN THIS PHASE
- TEMPORARY PAVEMENT BUILT IN PREVIOUS PHASE
- (XX) WORK ZONE PAVEMENT MARKING, 648.02, AS PER PLAN



NOTE: SEE SHEET 47 FOR MOT TYPICAL SECTION

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
STA. 63+00 TO STA. 75+50

DESIGN AGENCY
HNTB

DESIGNER	JEM
REVIEWER	MTR 05/01/26
PROJECT ID	105743
SHEET	P.146
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077_South - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:28 AM USER: kperkins
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CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 4 (Sheet) PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:29 AM USER: kperkins
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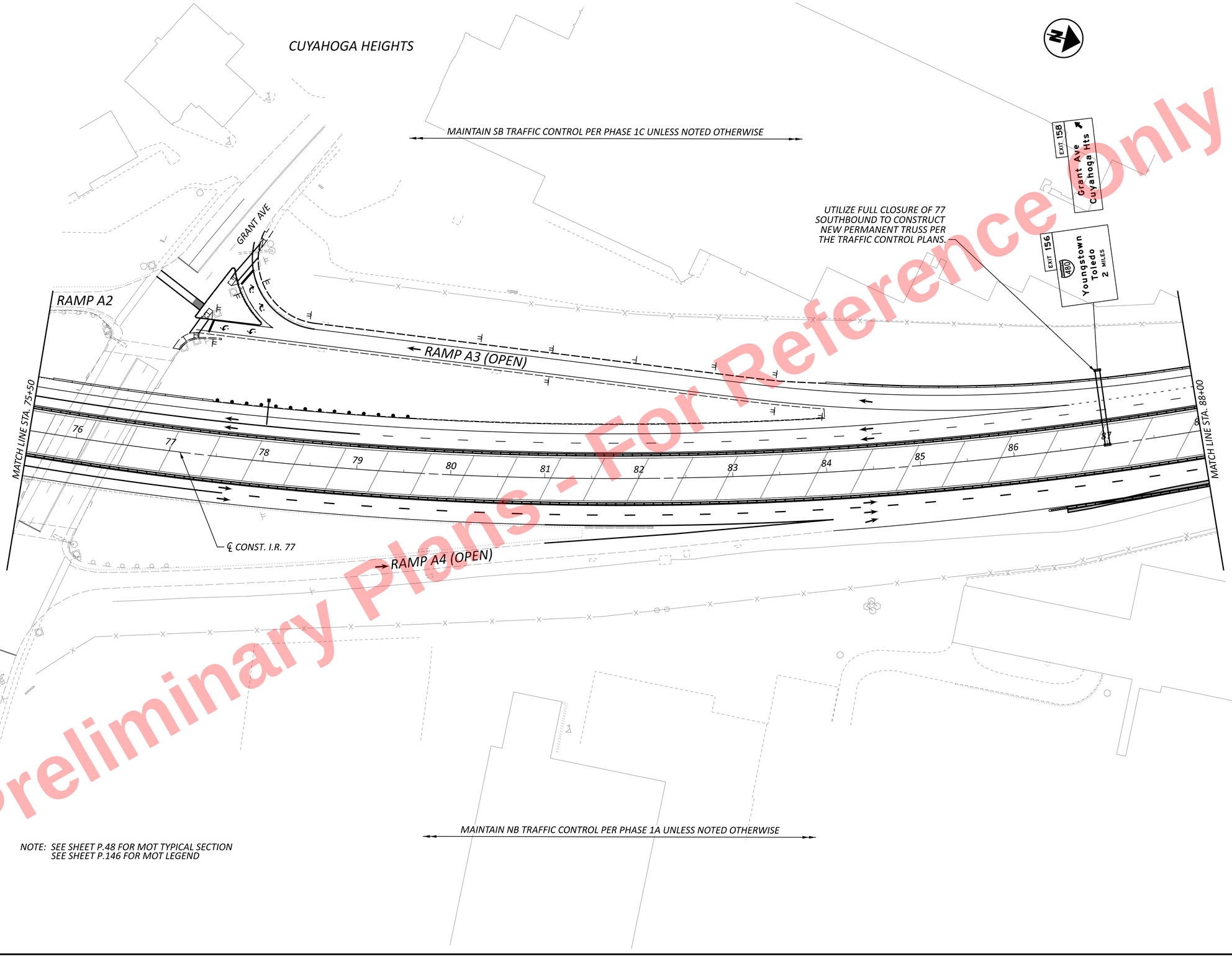


NOTE: SEE SHEET P.48 FOR MOT TYPICAL SECTION
SEE SHEET P.146 FOR MOT LEGEND

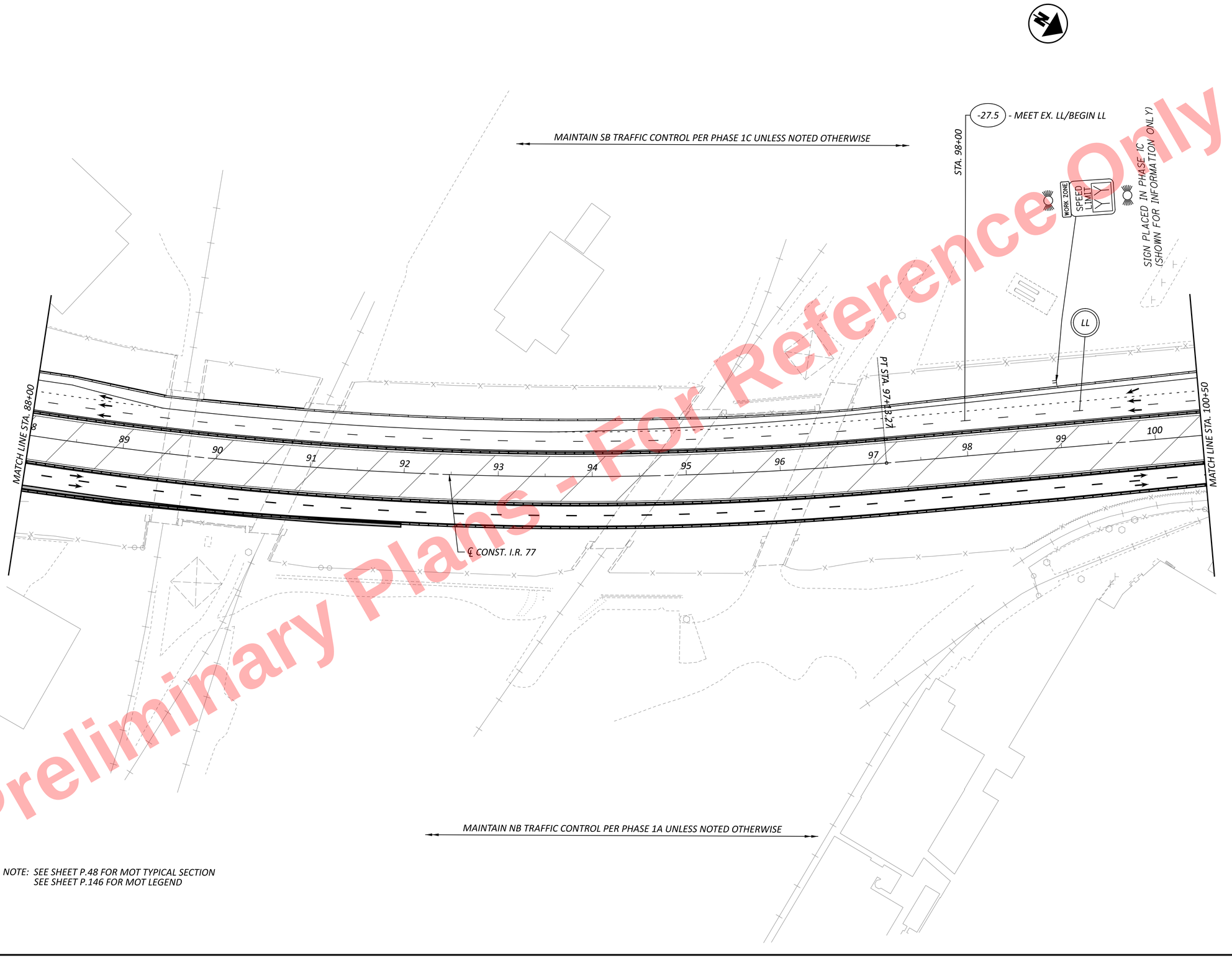
Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
STA. 75+50 TO STA. 88+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.147 TOTAL P.1269



NOTE: SEE SHEET P.48 FOR MOT TYPICAL SECTION
SEE SHEET P.146 FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
STA. 88+00 TO STA. 100+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.148 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan S [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:30 AM USER: kperkins
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MAINTAIN NB TRAFFIC CONTROL PER PHASE 1C UNLESS NOTED OTHERWISE

STA. 101+00
-47.5 - MEET EX. DL/BEGIN DL
-37.5 - LL
-27.5 - MEET EX. ELY/BEGIN ELY
-25.5 - MEET EX. PB/BEGIN PB50

STA. 104+25
-47.5 - END DL/MEET EX CHW

STA. 108+65
-47.5 - END CHW/BEGIN ELW
-37.5 - LL
-27.5 - ELY
-25.5 - PB50

DL
LL
PB 50
ELY
CHW
ELW

RAMP B2 (OPEN)

MATCH LINE STA. 100+50

101 102 103 104 105 106 107 108 109 110 111 112

MATCH LINE STA. 113+00

PT STA. 103+25.93

℄ CONST. I.R. 77

RAMP B1 (OPEN)

UTILIZE FULL CLOSURE OF 77 NORTHBOUND TO REMOVE EXISTING OVERHEAD TRUSS AND SIGNAGE.

Fleet Ave 1/2 MILE
EXIT 159B
EXIT 159A
Harvard Ave Newburgh Hts
TRAVEL CENTER
HARVARD AVE

MAINTAIN NB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET P.49 FOR MOT TYPICAL SECTION
SEE SHEET P.146 FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
STA. 100+50 TO STA. 113+00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:30 AM USER: kperkins
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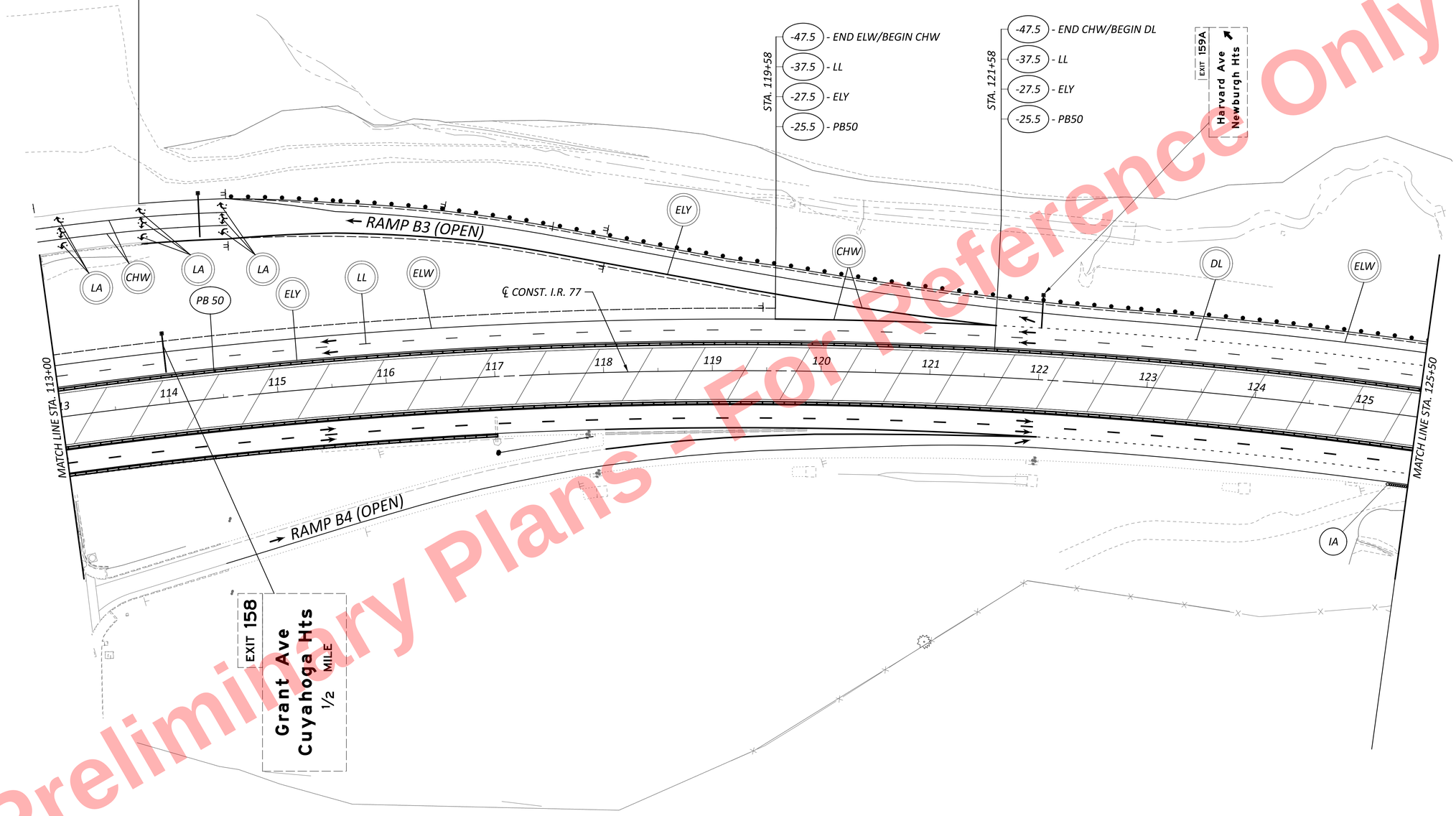
DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.149 TOTAL P.1269

RAMP B3 PLACE TEMPORARY MARKINGS
IN PERMANENT LOCATIONS SEE TRAFFIC
CONTROL PLANS FOR DETAILS
PLACE SIGNAGE PER MT-98.10



Preliminary Plans - For Reference Only

MAINTAIN NB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET P.50 FOR MOT TYPICAL SECTION
SEE SHEET P.146 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
STA. 113+00 TO STA. 125+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.150 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:31 AM USER: kperkins
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RAMP B2 PLACE TEMPORARY MARKINGS
IN PERMANENT LOCATIONS SEE TRAFFIC
CONTROL PLANS FOR DETAILS
PLACE SIGNAGE PER MT-98.10

VILLAGE OF NEWBURGH HEIGHTS

-59.5 - ELW
-47.5 - DL
-37.5 - LL
-27.5 - ELY
-25.5 - PB50

STA. 126+08

-47.5 - END DL/ELW

STA. 127+08

DL

ELW

LL

ELY

PB 50

℄ CONST. I.R. 77

MATCH LINE STA. 125+50

126 127 128 129 130 131 132 133 134 135 136 137

MATCH LINE STA. 138+00

PT STA. 131+35.36

PB

RAMP C1 (OPEN)

STA. 125+50

64.8 - BEGIN PB

Pershing Ave
1 MILE
EXIT 160

STA. 128+50

64.9 - END PB

EXIT ONLY
Fleet Ave
EXIT 159B

UTILIZE FULL CLOSURE OF 77 NORTHBOUND
TO REMOVE EXISTING OVERHEAD TRUSS AND
SIGNAGE. CONSTRUCT NEW PERMANENT TRUSS
AT 128+00 PER THE TRAFFIC CONTROL PLANS. PLACE
A PCMS FOR THE INTERIM BETWEEN REMOVAL
OF THE EXISTING AND COMPLETION OF PROPOSED SIGNAGE.

MAINTAIN NB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

Broadway Ave
1½ MILES
14
EXIT 161A

Pershing Ave
1 MILE
EXIT 160

Fleet Ave
EXIT 159B

NOTE: SEE SHEET P.52 FOR MOT TYPICAL SECTION
SEE SHEET P.146 FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL
SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
STA. 125+50 TO STA. 138+00

DESIGN AGENCY
HNTB

DESIGNER
JEM

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.151 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:31 AM USER: kperkins
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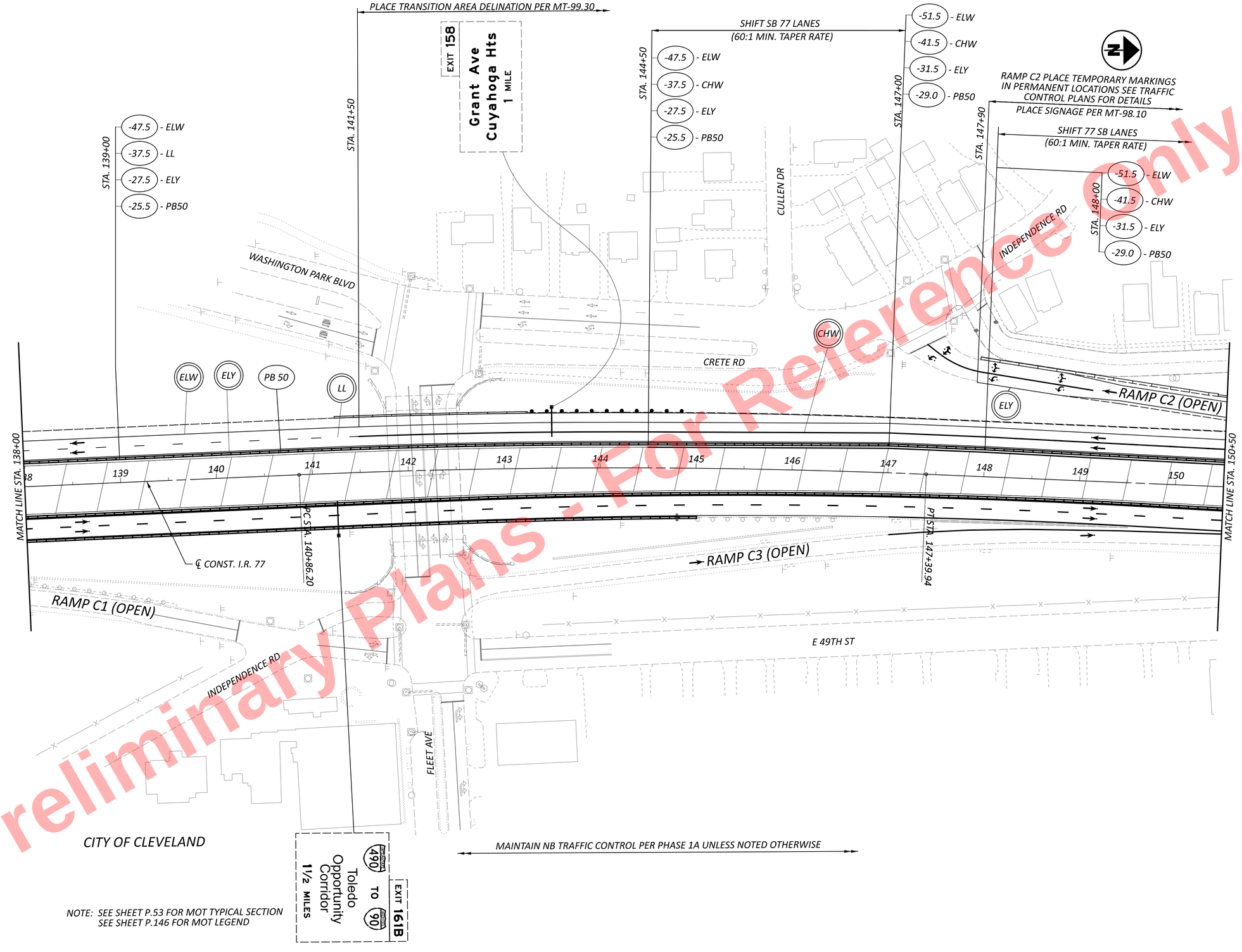

NOTE: SEE SHEET P.53 FOR MOT TYPICAL SECTION
SEE SHEET P.146 FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
STA. 138+00 TO STA. 150+50

DESIGN AGENCY
HNTB

DESIGNER
JEM

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.152 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:32 AM USER: kperkins
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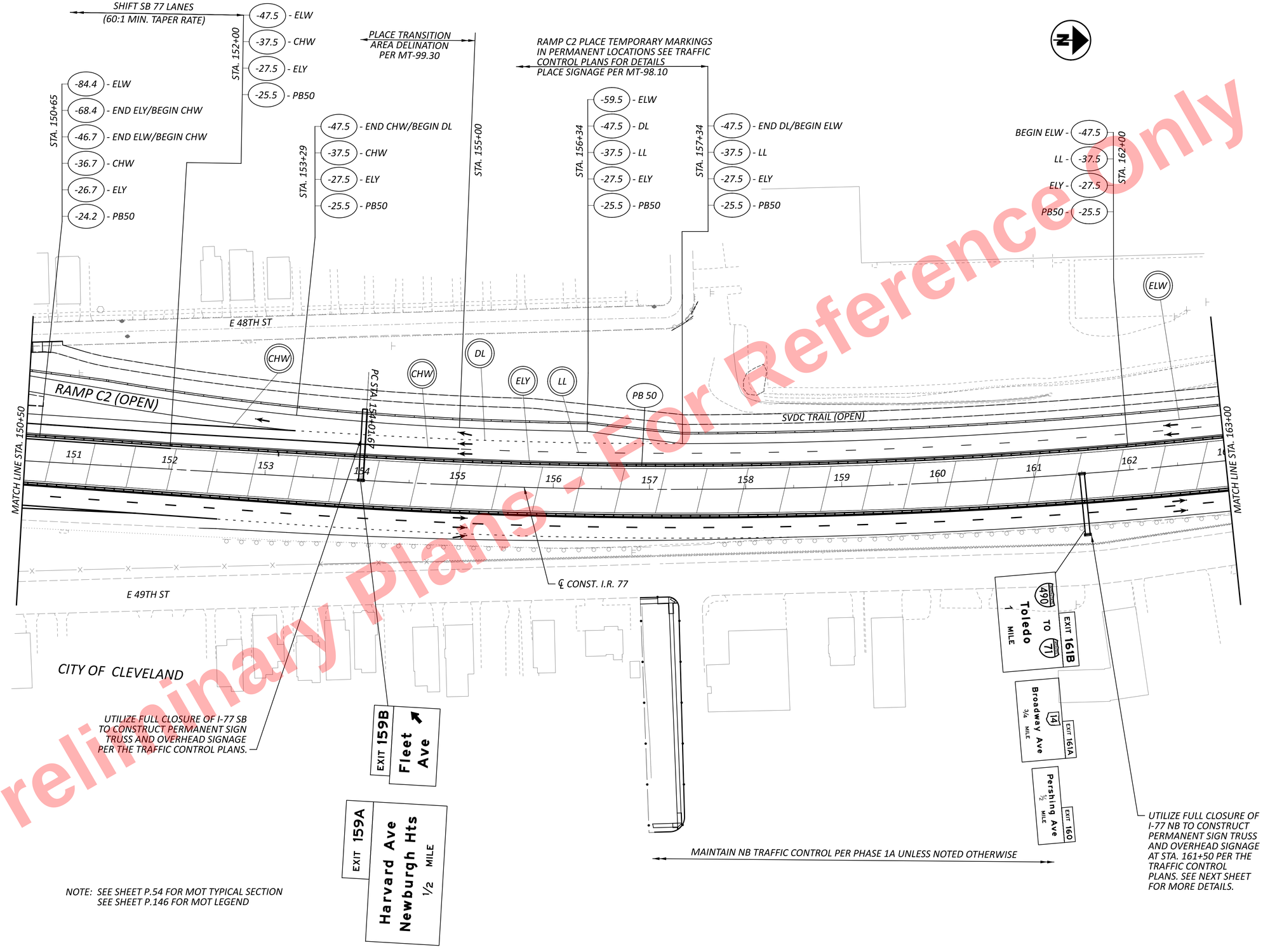

Preliminary Plans - For Reference Only

MAINTENANCE OF TRAFFIC - PHASE 2
STA. 150+50 TO STA. 163+00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:32 AM USER: kperkins
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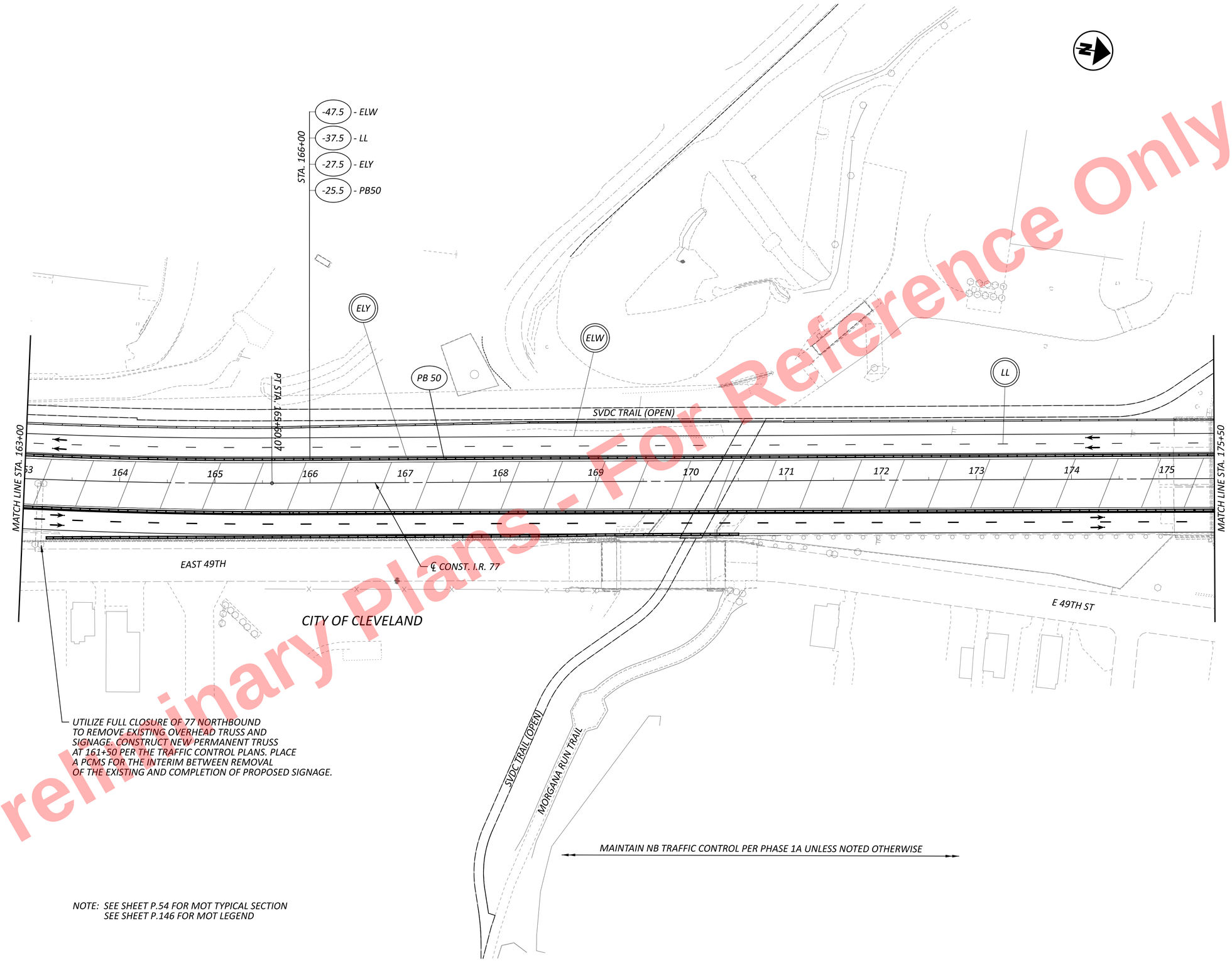
DESIGN AGENCY
HNTB

DESIGNER	JEM
REVIEWER	MTR 05/01/26
PROJECT ID	105743
SHEET	P.153
TOTAL	P.1269

Preliminary Plans - For Reference Only



NOTE: SEE SHEET P.54 FOR MOT TYPICAL SECTION
SEE SHEET P.146 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
STA. 163+00 TO STA. 175+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.154 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:33 AM USER: kperkins
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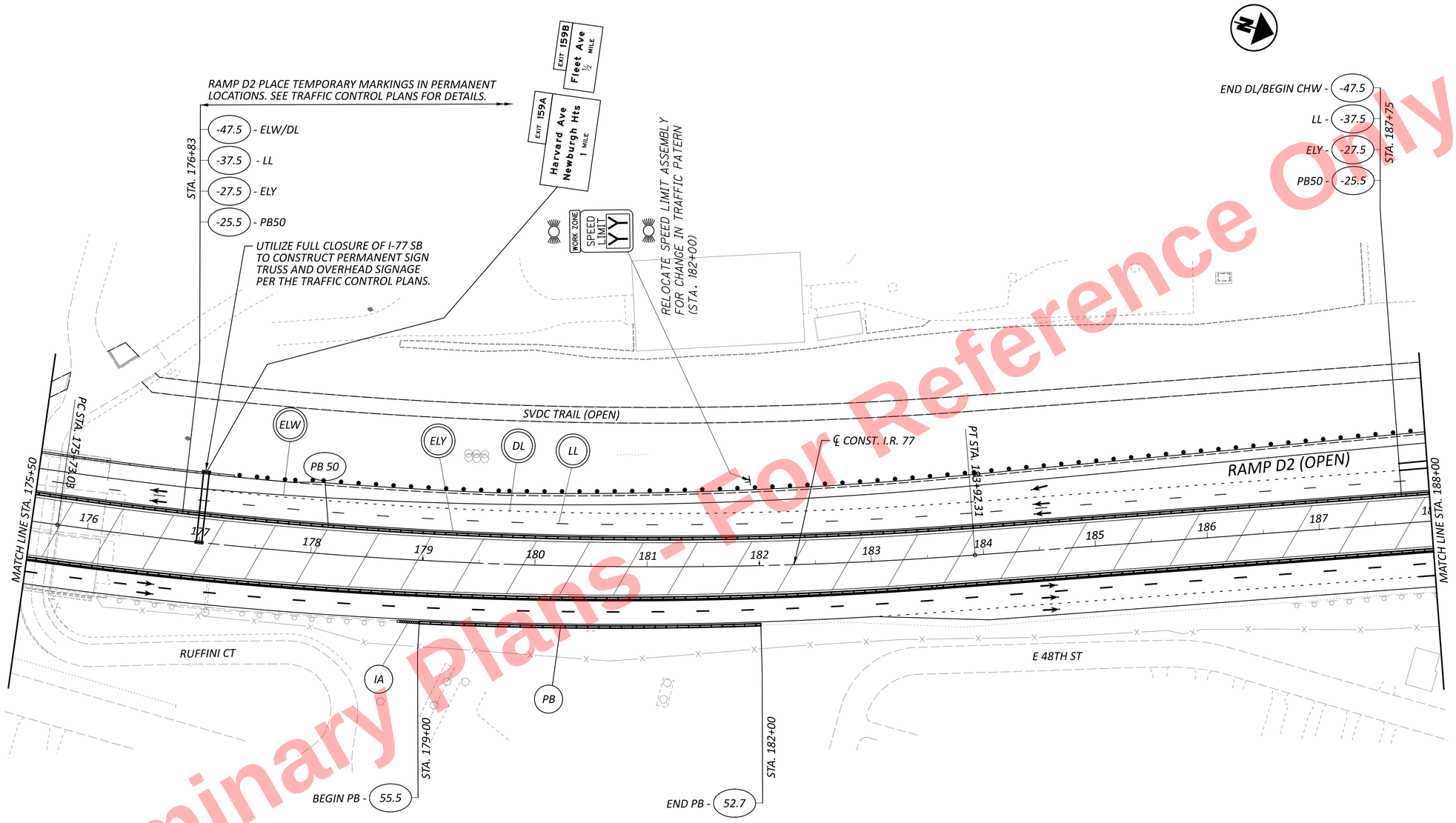

NOTE: SEE SHEET P.54 FOR MOT TYPICAL SECTION
SEE SHEET P.146 FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
STA. 175+50 TO STA. 188+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.155 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 12 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:33 AM USER: kperkins
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MODEL: CLP_I077 - Plan 13 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:34 AM USER: kperkins
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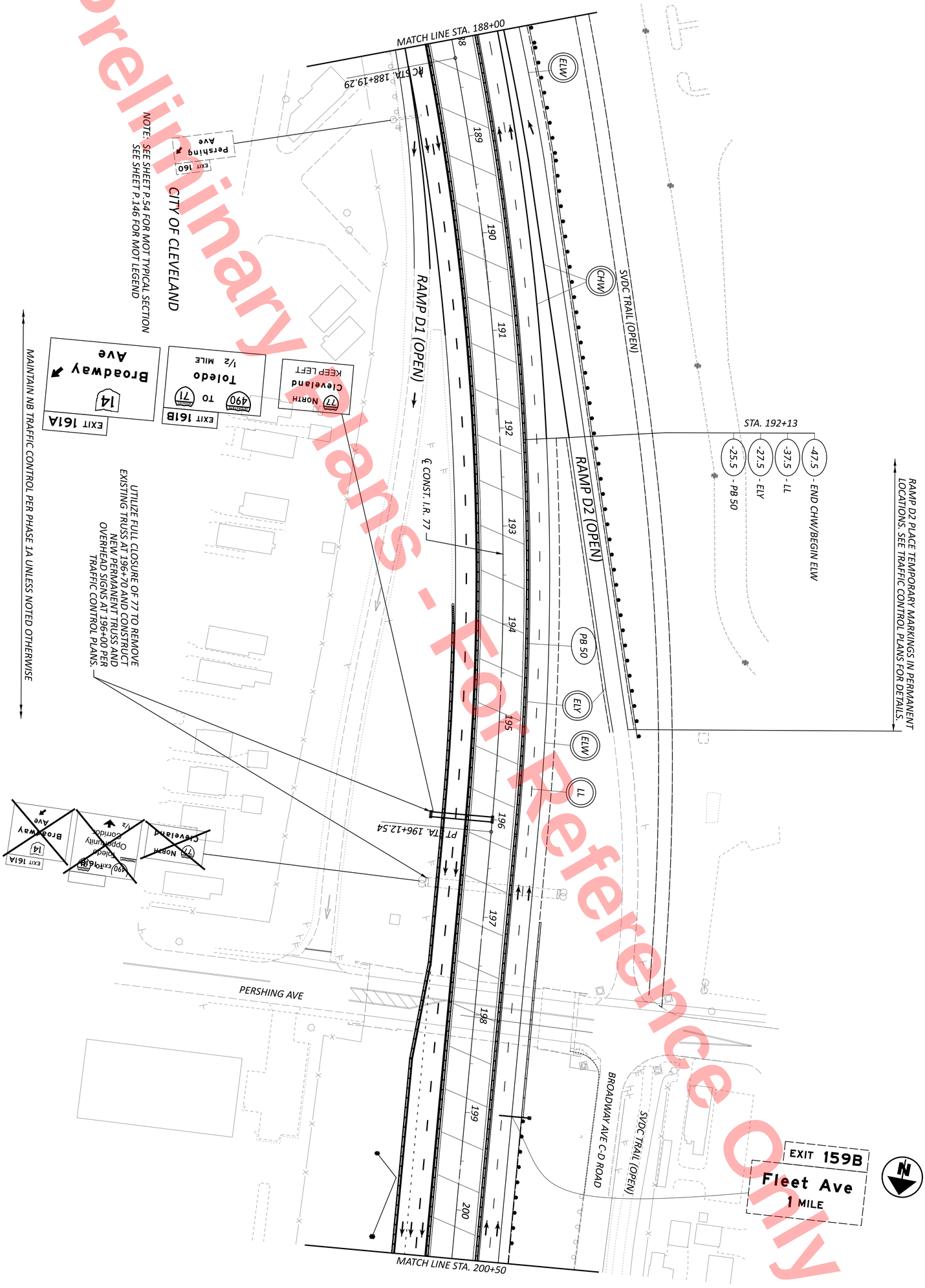

Preliminary Plans - For Reference Only

DESIGN AGENCY: HNTB	DESIGNER: JEM	REVIEWER: MTR 05/01/26	PROJECT ID: 105743
SHEET: P.156	TOTAL: P.1269		

MAINTENANCE OF TRAFFIC - PHASE 2
STA. 188+00 TO STA. 200+50

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTAIN SB TRAFFIC CONTROL PER PHASE 1C UNLESS NOTED OTHERWISE

-47.5 - END ELW/MEET EX. DL/ELW
-37.5 - LL
-27.5 - ELY
-25.5 - PB 50

STA. 201+50

Toledo Opportunity Corridor
490 TO 71
EXIT 161B

DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY STA. 210+00 (PER PREVIOUS PHASE)

WORK ZONE SPEED LIMIT YY

77 NORTH Cleveland

Toledo Opportunity Corridor
490 TO 71
EXIT ONLY
EXIT 161B

BROADWAY AVE C-D ROAD

ELY
PB 50
LL

RAMP J5 (OPEN)

MATCH LINE STA. 200+50

201 202 203 204 205 206 207 208 209 210 211 212

MATCH LINE STA. 213+00

UTILIZE FULL CLOSURE OF 77 NORTHBOUND TO REMOVE EXISTING OVERHEAD TRUSS AND SIGNAGE PER THE TRAFFIC CONTROL PLANS.

RAMP E1 (OPEN)

E 46TH PL

CITY OF CLEVELAND

UTILIZE FULL CLOSURE OF 77 NORTHBOUND TO REMOVE EXISTING OVERHEAD TRUSS AND SIGNAGE. CONSTRUCT NEW PERMANENT TRUSS AT 213+00 PER THE TRAFFIC CONTROL PLANS. PLACE A PCMS FOR THE INTERIM BETWEEN REMOVAL OF THE EXISTING AND COMPLETION OF PROPOSED SIGNAGE.

77 NORTH Cleveland

Toledo Opportunity Corridor
NEXT RIGHT
490 TO 71
EXIT 161B

Broadway Ave
14
EXIT 161A

FINN AVE

BROADWAY AVE

77 NORTH Cleveland

Toledo Opportunity Corridor
EXIT ONLY
490 TO 90
EXIT 161B

PLACE TEMPORARY OVERLAY (2'X8', SIGNAGE LEVEL 1) AS SHOWN. ARROW TO BE CENTERED OVER OUTSIDE LANE

MAINTAIN NB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET P.55 FOR MOT TYPICAL SECTION
SEE SHEET P.146 FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
STA. 200+50 TO STA. 213+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.157 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 14 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:35 AM USER: kperkins
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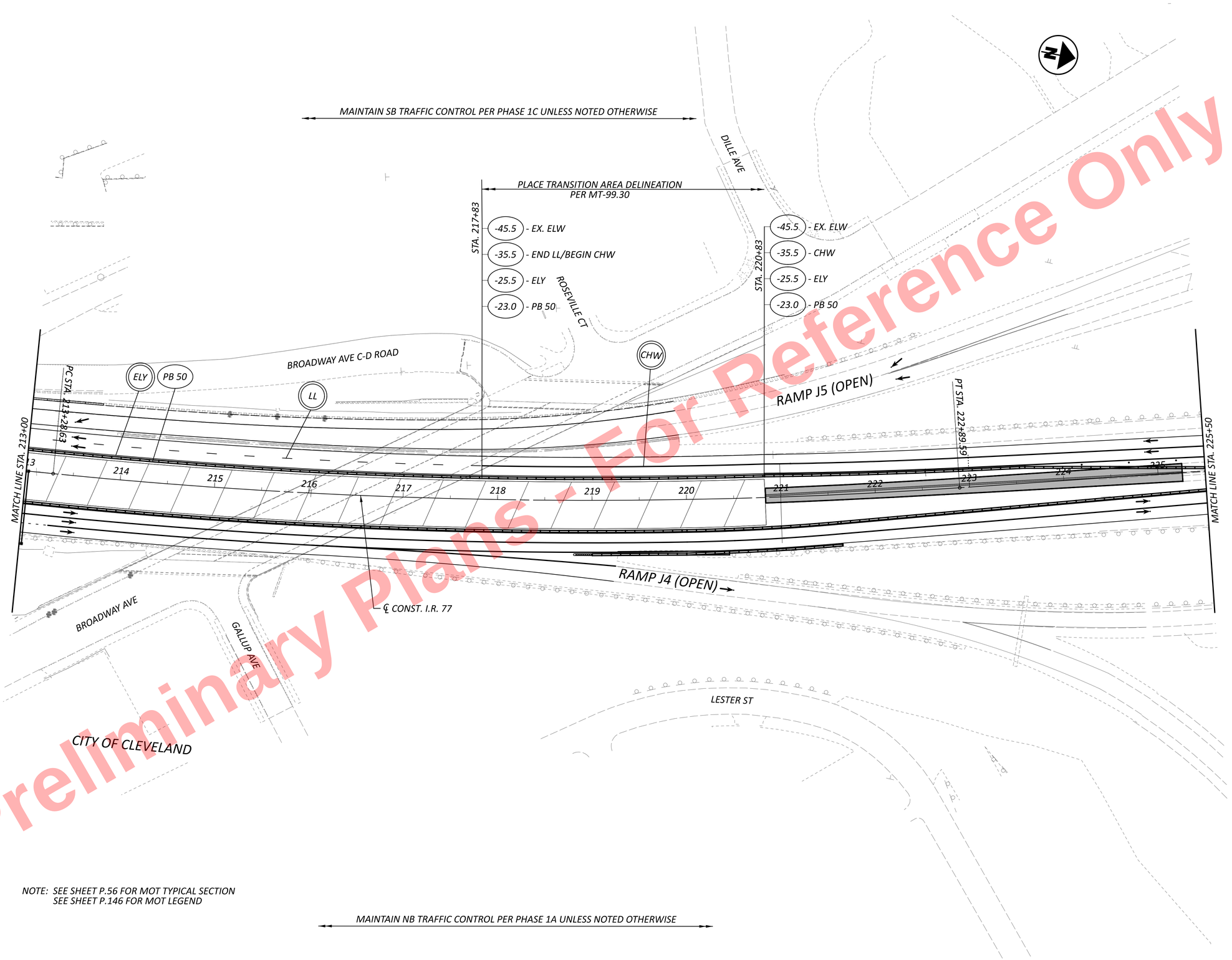

NOTE: SEE SHEET P.56 FOR MOT TYPICAL SECTION
SEE SHEET P.146 FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
STA. 213+00 TO STA. 225+50

DESIGN AGENCY
HNTB

DESIGNER
JEM

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.158 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 15 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:35 AM USER: kperkins
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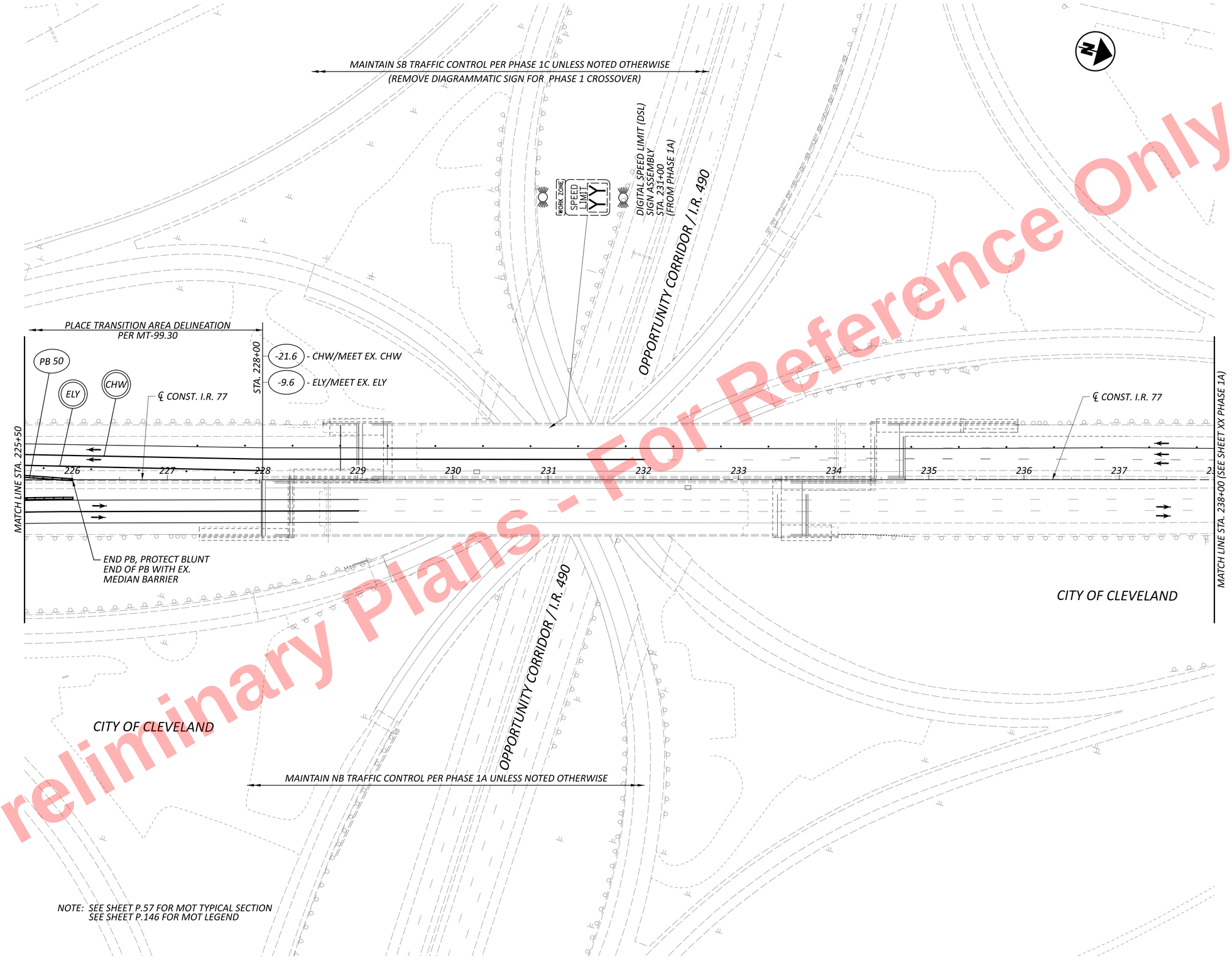

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 2
STA. 225+50 TO STA. 238+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.159 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 16 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:36 AM USER: kperkins
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Preliminary Plans - For Reference Only

LEGEND

- WORK ZONE IMPACT ATTENUATOR (IA)
- (ELW) WORK ZONE EDGE LINE (WHITE), CLASS I, 6"
- (ELY) WORK ZONE EDGE LINE (YELLOW), CLASS I, 6"
- (LA) WORK ZONE LANE ARROW, CLASS I
- (CHW) WORK ZONE CHANNELIZING LINE (WHITE), CLASS I, 12"
- (DL) WORK ZONE DOTTED LINE (WHITE), CLASS I
- (CL) WORK ZONE CENTER LINE (DOUBLE SOLID), CLASS I
- (LL) WORK ZONE LANE LINE, CLASS I, 6"
- WORK AREA
- DRUMS (SPACING AS NOTED)
- PORTABLE BARRIER (PB) (32" HEIGHT, UNLESS NOTED OTHERWISE) (PB)
- TEMPORARY PAVEMENT BUILT IN THIS PHASE
- TEMPORARY PAVEMENT BUILT IN PREVIOUS PHASE

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTAIN SB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

PT STA. 41+83.87

38 39 40 41 42 43 44 45 46 47 48 49 50

MATCH LINE STA. 50+50

℄ CONST. I.R. 77

Digital Speed Limit (DSL) Sign Assembly (MATCH PRE-PHASE 1)

SPEED LIMIT
WORK ZONE

NOTE: SEE SHEET P.83 FOR SIGN SCHEMATIC

MAINTAIN NB TRAFFIC CONTROL PER PHASE 1A UNLESS NOTED OTHERWISE

NORTH (77)
ALL LANES
TO GRANT HARVARD FLEET PERSHING BROADWAY (290)
KEEP RIGHT

* - LEVEL 1 SIGN. STA. 50+00
16'x10' ON TEMP. SUPPORTS PER MT-105.10
SEE SHEET XX FOR SIGN CADD DETAILS

* - SEE SCD MT-95.72 FOR ADDITIONAL DETAILS
ENGINEER TO APPROVE FINAL SIGN LAYOUT PRIOR TO INSTALLATION

MAINTENANCE OF TRAFFIC - PHASE 3A
STA. 38+00 TO STA. 50+50

CUY-77-11.41 - PART 1

MODEL: CLP_I077_South - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:44 AM USER: kperkins
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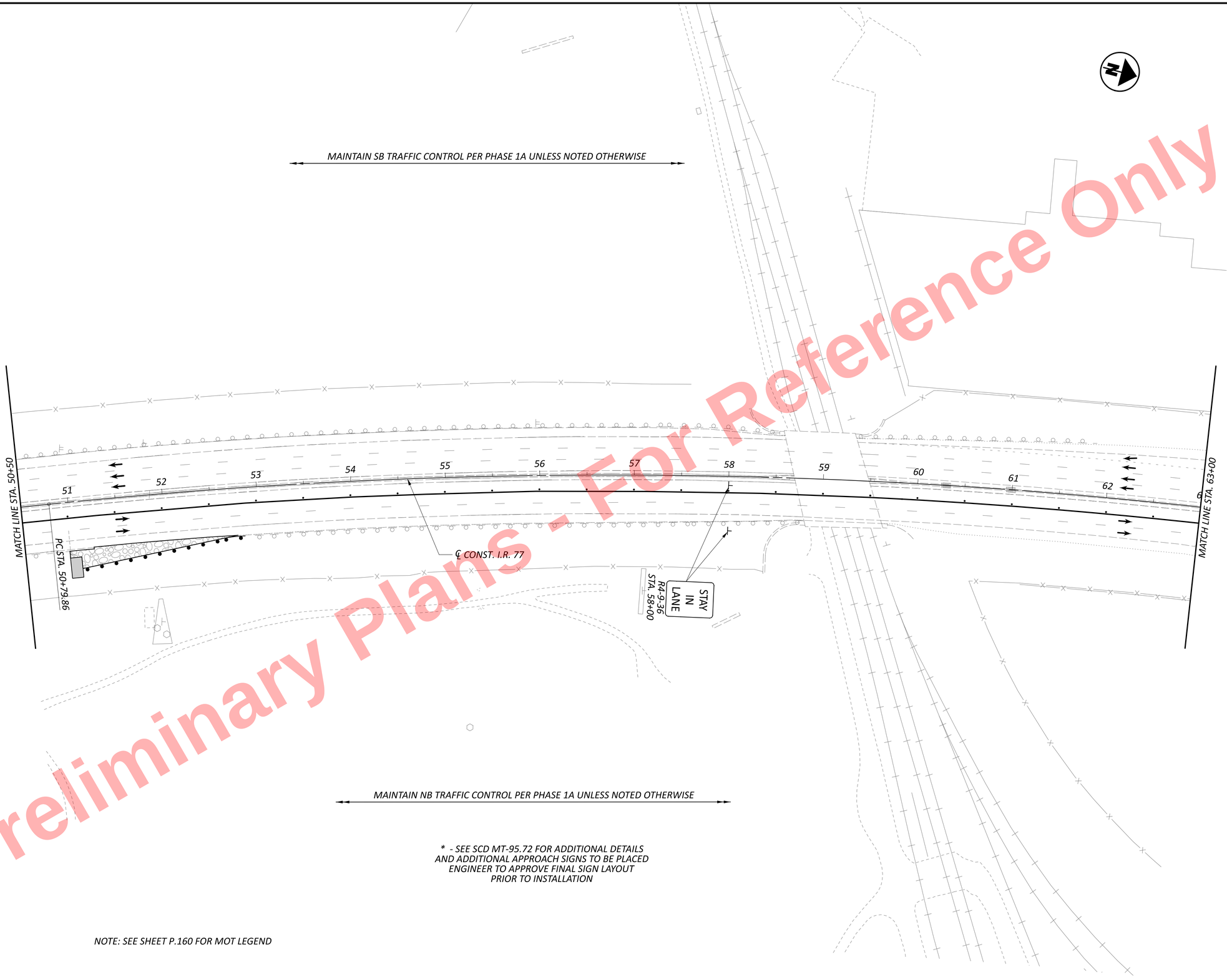
DESIGN AGENCY: HNTB
DESIGNER: JEM
REVIEWER: MTR 05/01/26
PROJECT ID: 105743
SHEET: P.160 TOTAL: P.1269

Preliminary Plans - For Reference Only



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3A
STA. 50+50 TO STA. 63+00

CUY-77-11.41 - PART 1

MODEL: CLP_I077_South - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:45 AM USER: kperkins
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DESIGN AGENCY
HNTB

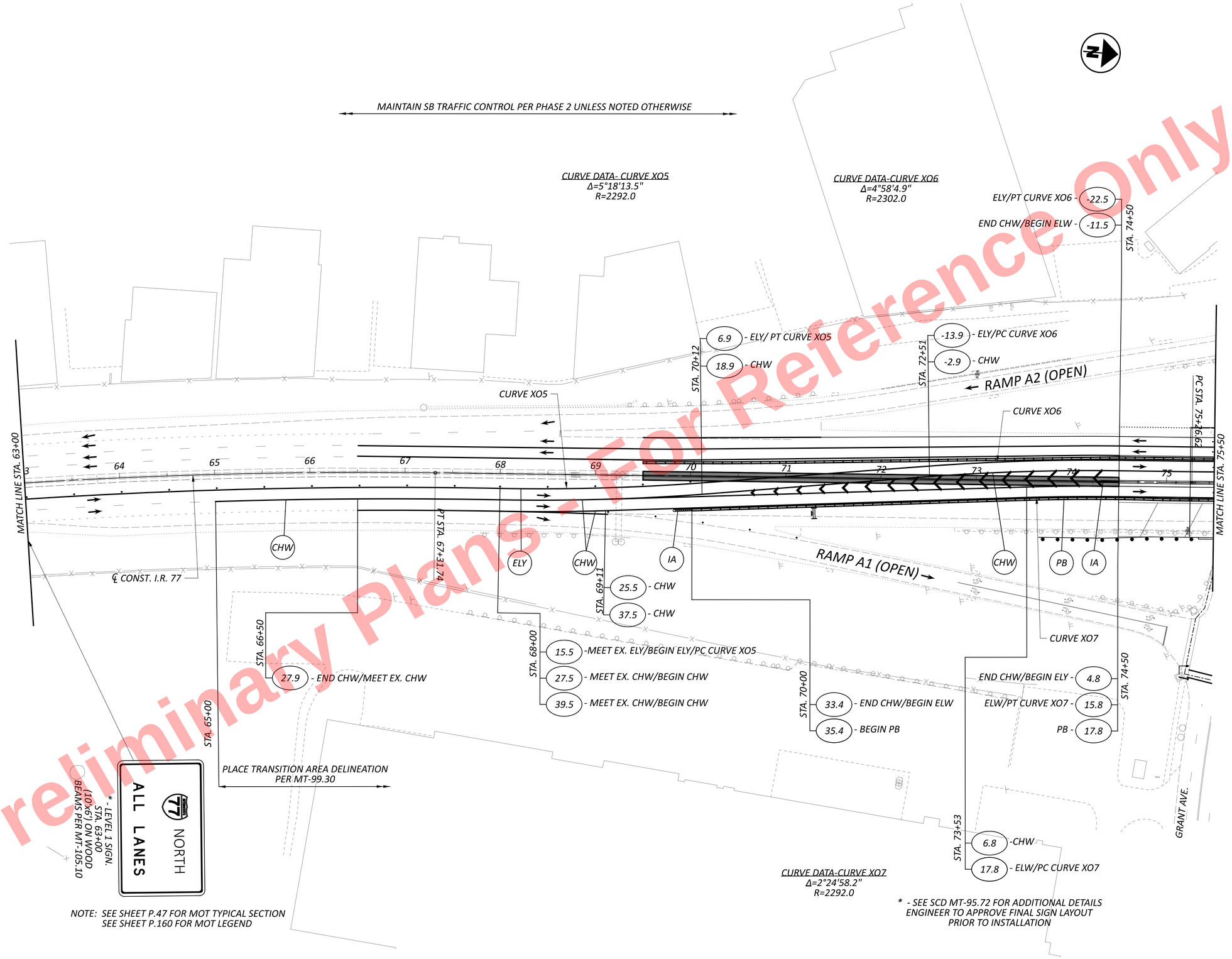
DESIGNER
JEM

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.161 | TOTAL P.1269

Preliminary Plans - For Reference Only



NOTE: SEE SHEET P.47 FOR MOT TYPICAL SECTION
SEE SHEET P.160 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3A
STA. 63+00 TO STA. 75+50

CUY-77-11.41 - PART 1

MODEL: CLP_I077_South - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:45 AM USER: kperkins
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DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.162 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:46 AM USER: kperkins
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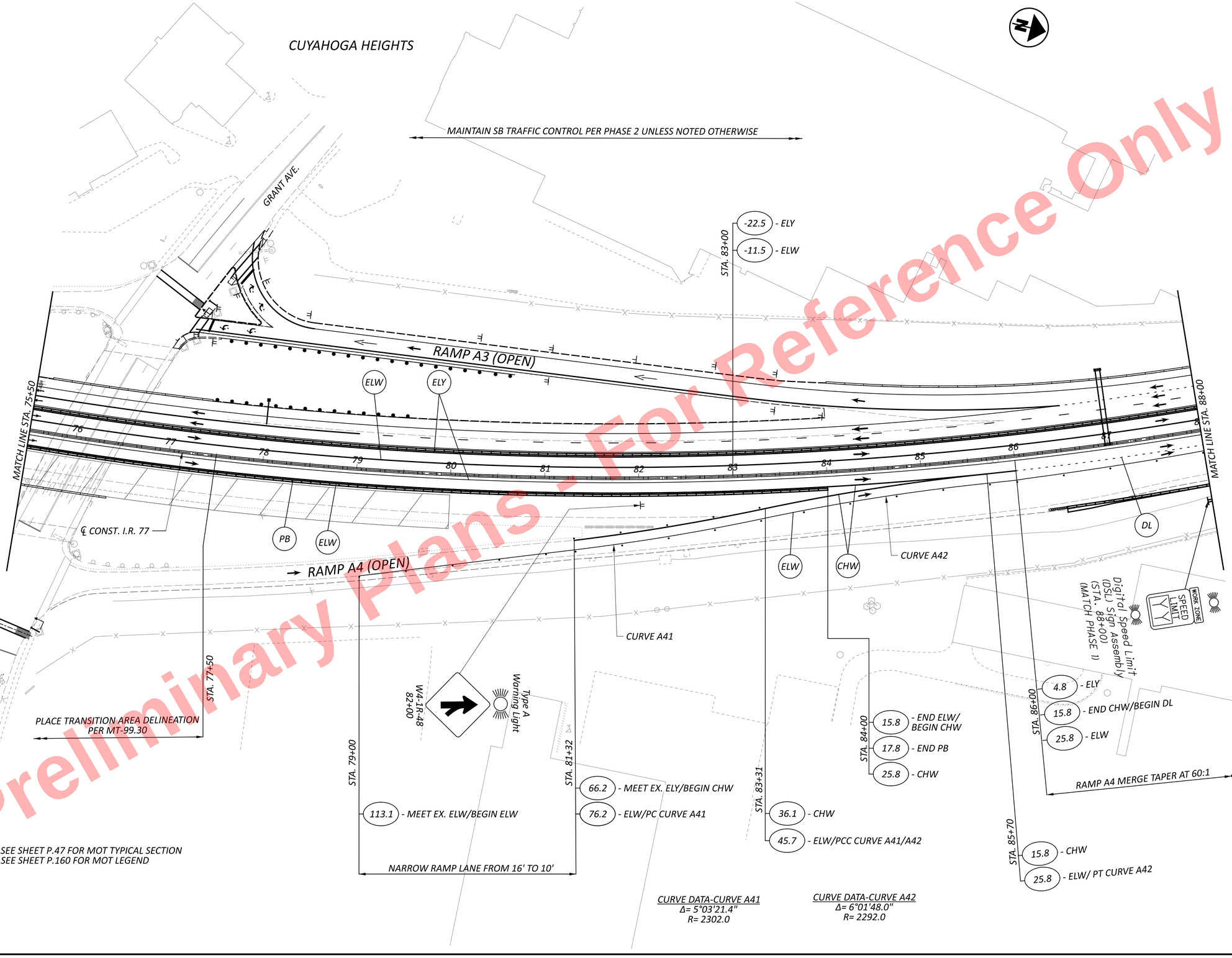


Preliminary Plans - For Reference Only

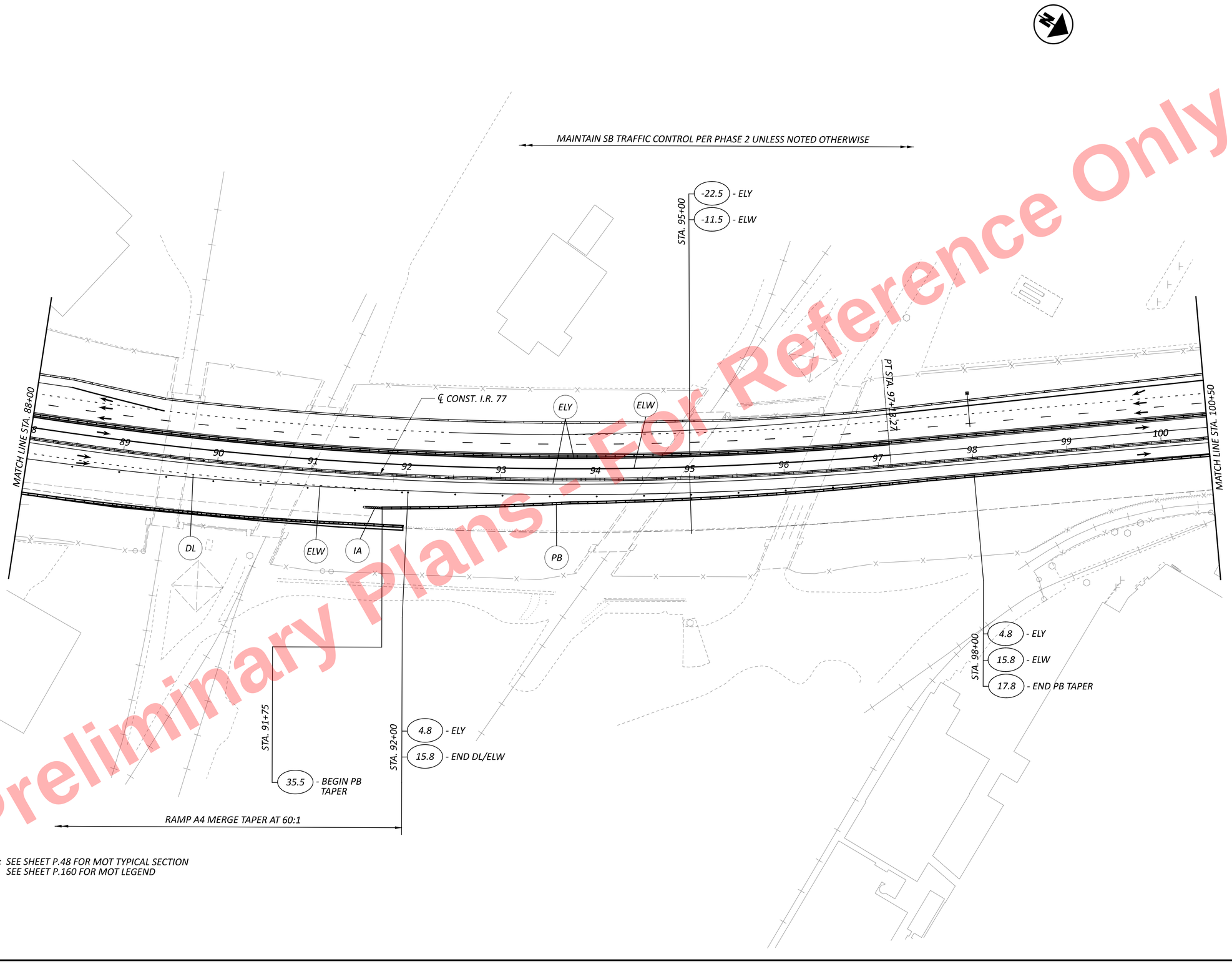
HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3A
STA. 75+50 TO STA. 88+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.163 TOTAL P.1269

Preliminary Plans - For Reference Only



NOTE: SEE SHEET P.48 FOR MOT TYPICAL SECTION
SEE SHEET P.160 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3A
STA. 88+00 TO STA. 100+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.164 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:46 AM USER: kperkins
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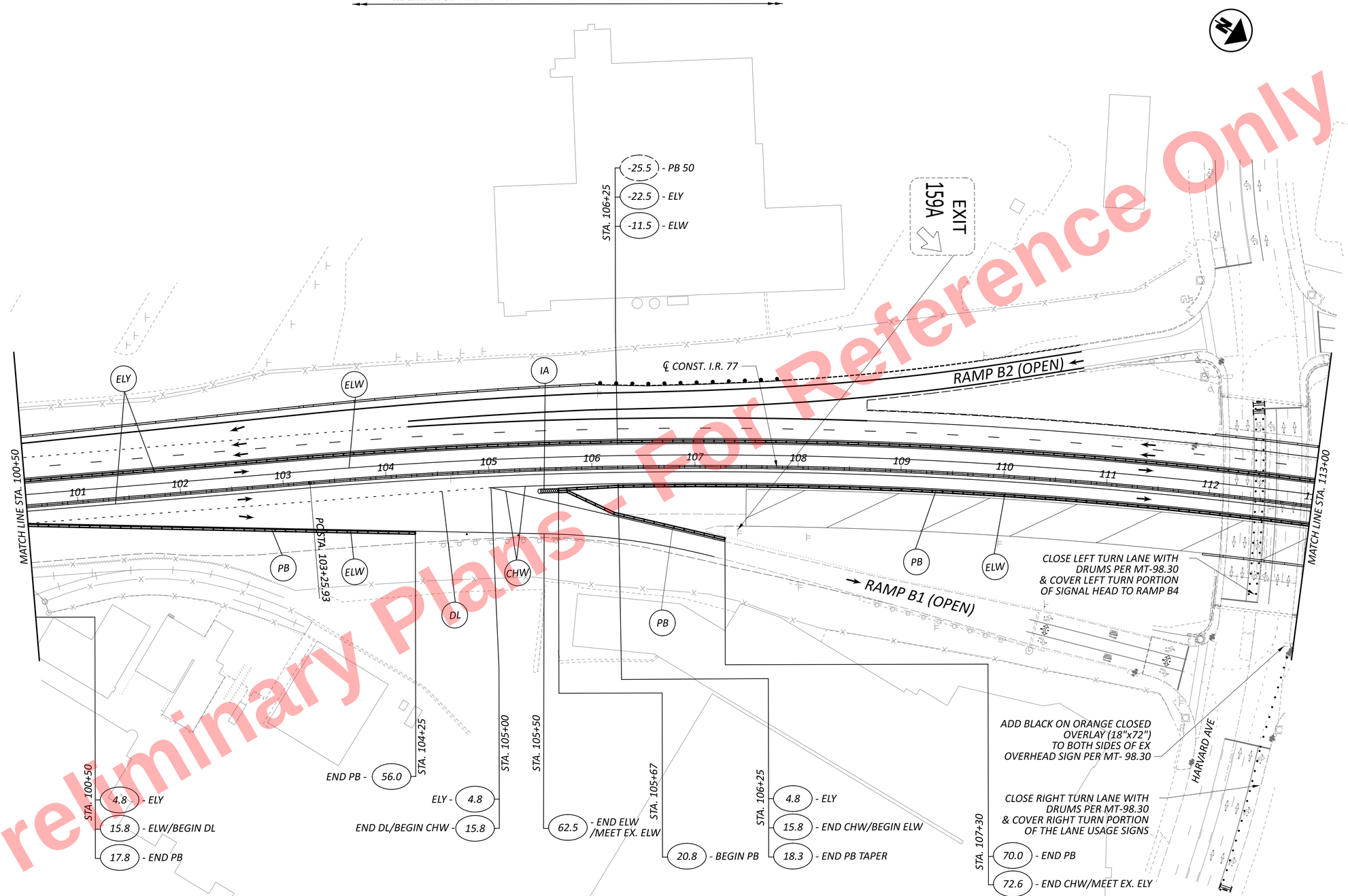
MAINTAIN SB TRAFFIC CONTROL PER PHASE 2 UNLESS NOTED OTHERWISE



NOTE: SEE SHEET P.49 FOR MOT TYPICAL SECTION
SEE SHEET P.160 FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3A
STA. 100+50 TO STA. 113+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.165 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:47 AM USER: kperkins
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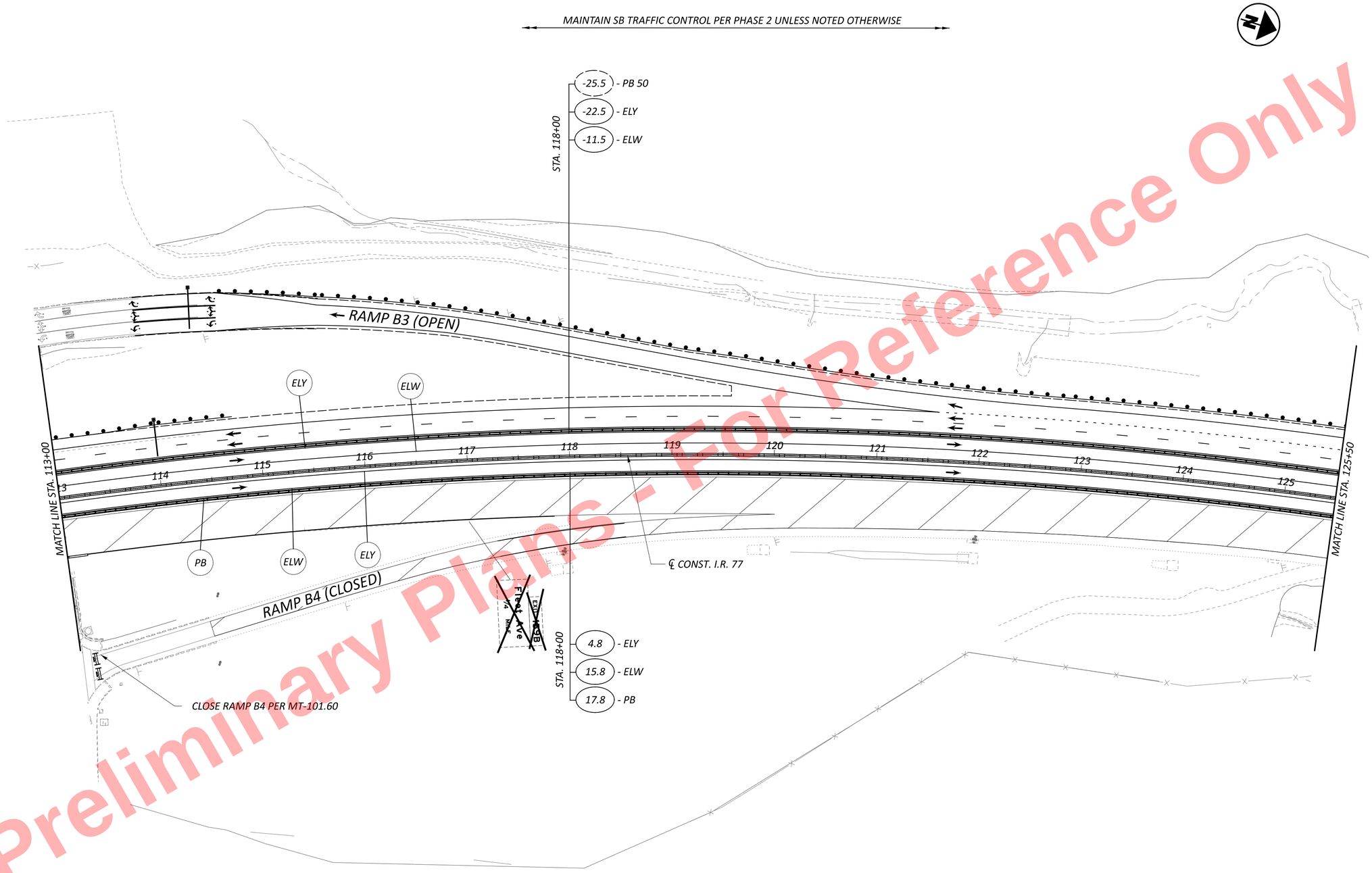
MAINTAIN SB TRAFFIC CONTROL PER PHASE 2 UNLESS NOTED OTHERWISE



NOTE: SEE SHEET P.50 FOR MOT TYPICAL SECTION
SEE SHEET P.160 FOR MOT LEGEND
SEE SHEET P.64 FOR DETOUR PLANS FOR RAMP B4

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3A
STA. 113+00 TO STA. 125+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.166 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:47 AM USER: kperkins
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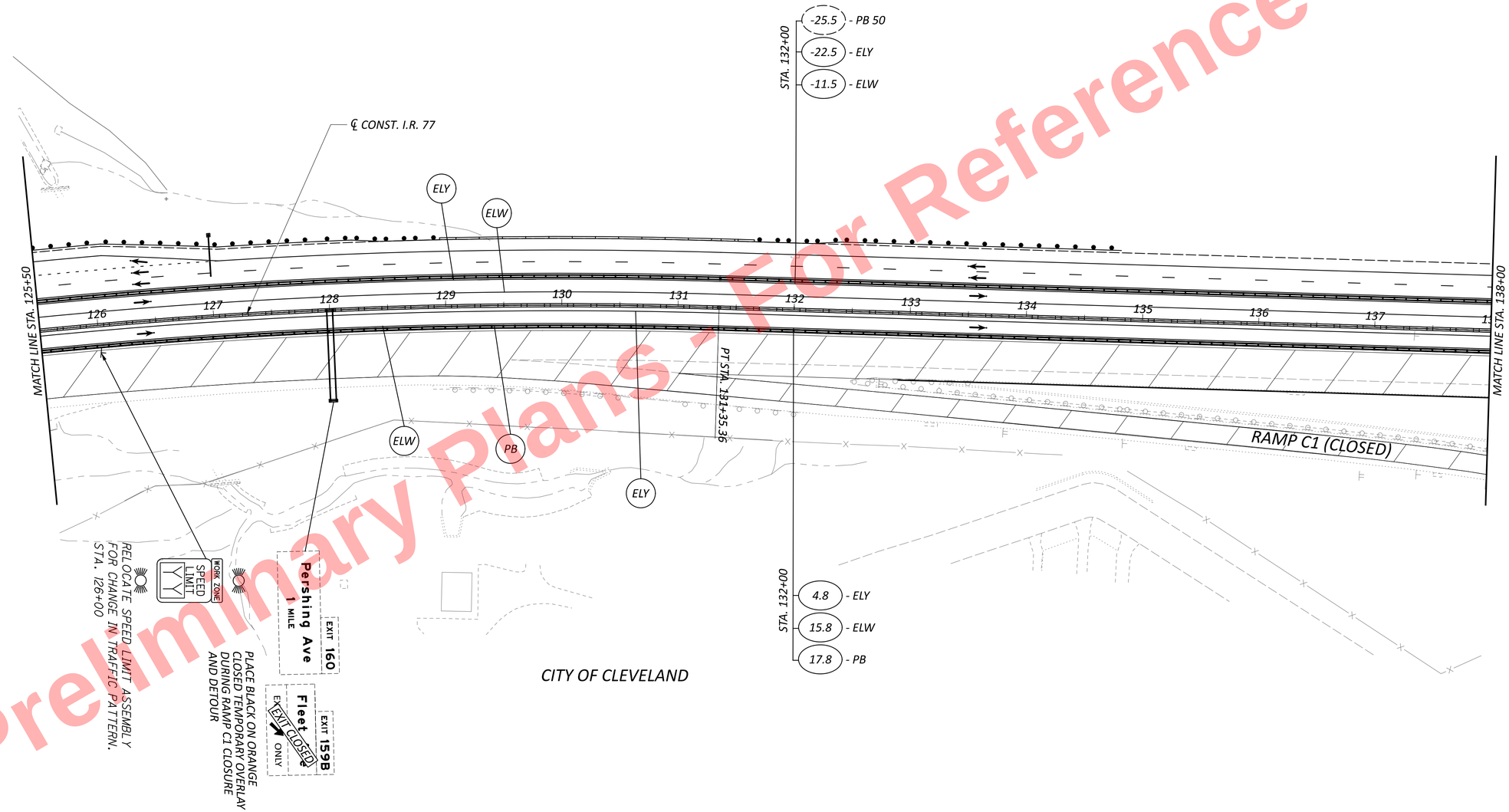
MAINTAIN SB TRAFFIC CONTROL PER PHASE 2 UNLESS NOTED OTHERWISE

VILLAGE OF NEWBURGH HEIGHTS



NOTE: SEE SHEET P.51 FOR MOT TYPICAL SECTION
SEE SHEET P.160 FOR MOT LEGEND
SEE SHEET P.65 FOR DETOUR PLANS FOR RAMP C1

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3A
STA. 125+50 TO STA. 138+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.167 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:48 AM USER: kperkins
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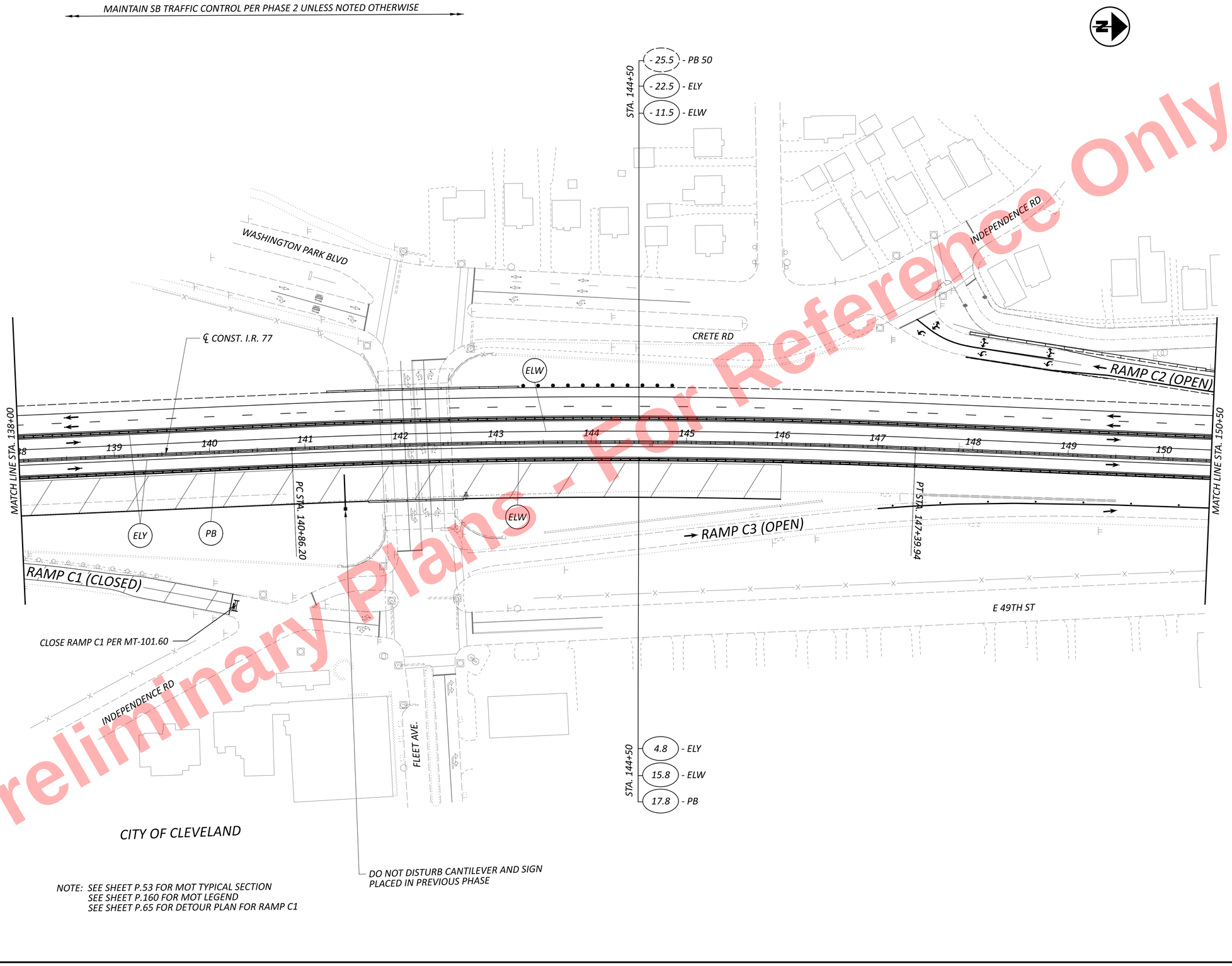

NOTE: SEE SHEET P.53 FOR MOT TYPICAL SECTION
SEE SHEET P.160 FOR MOT LEGEND
SEE SHEET P.65 FOR DETOUR PLAN FOR RAMP C1

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 50 100
25

MAINTENANCE OF TRAFFIC - PHASE 3A
STA. 138+00 TO STA. 150+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.168 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:49 AM USER: kperkins
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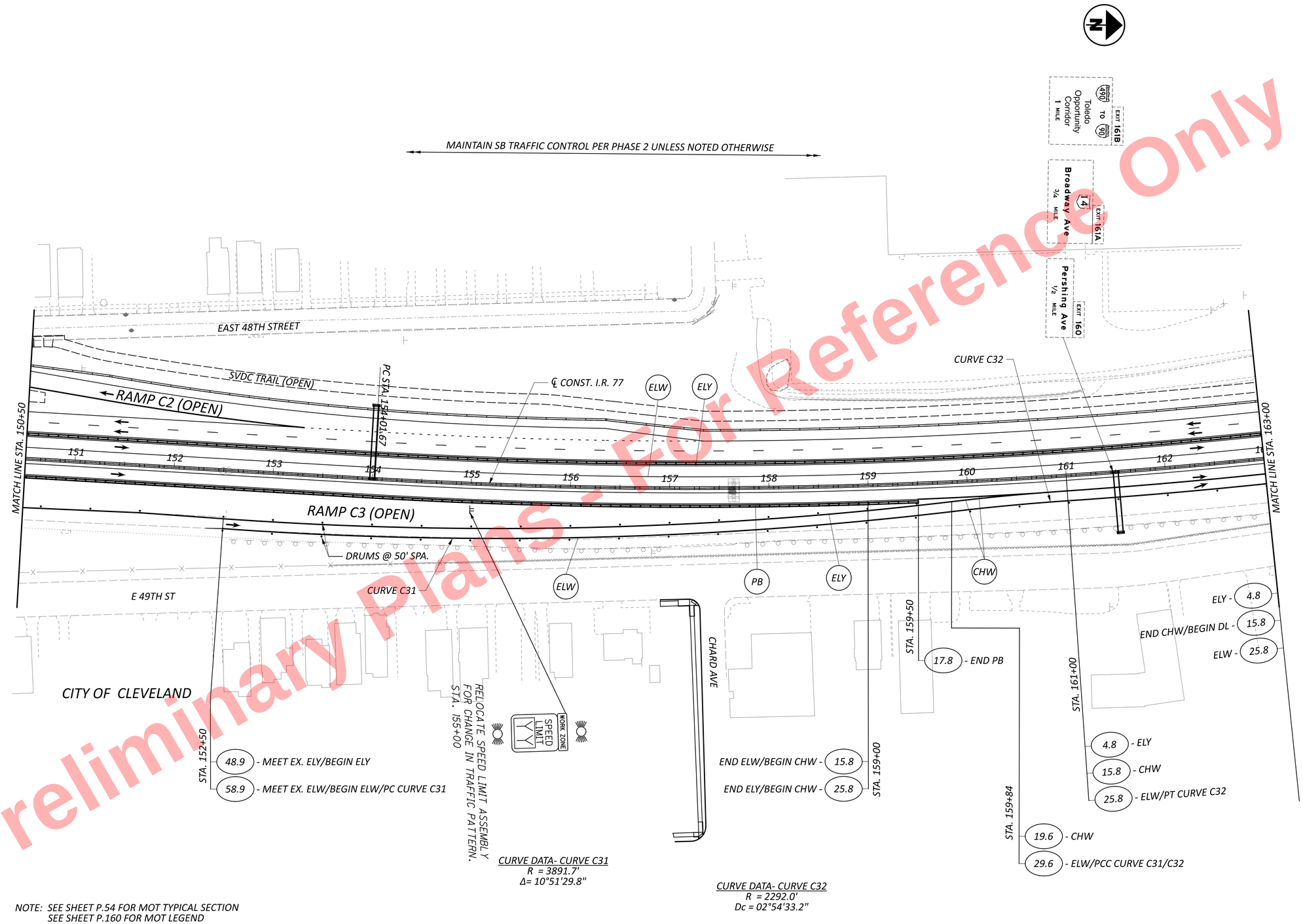
Preliminary Plans - For Reference Only



NOTE: SEE SHEET P.54 FOR MOT TYPICAL SECTION
SEE SHEET P.160 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3A
STA. 150+50 TO STA. 163+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.169 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:49 AM USER: kperkins
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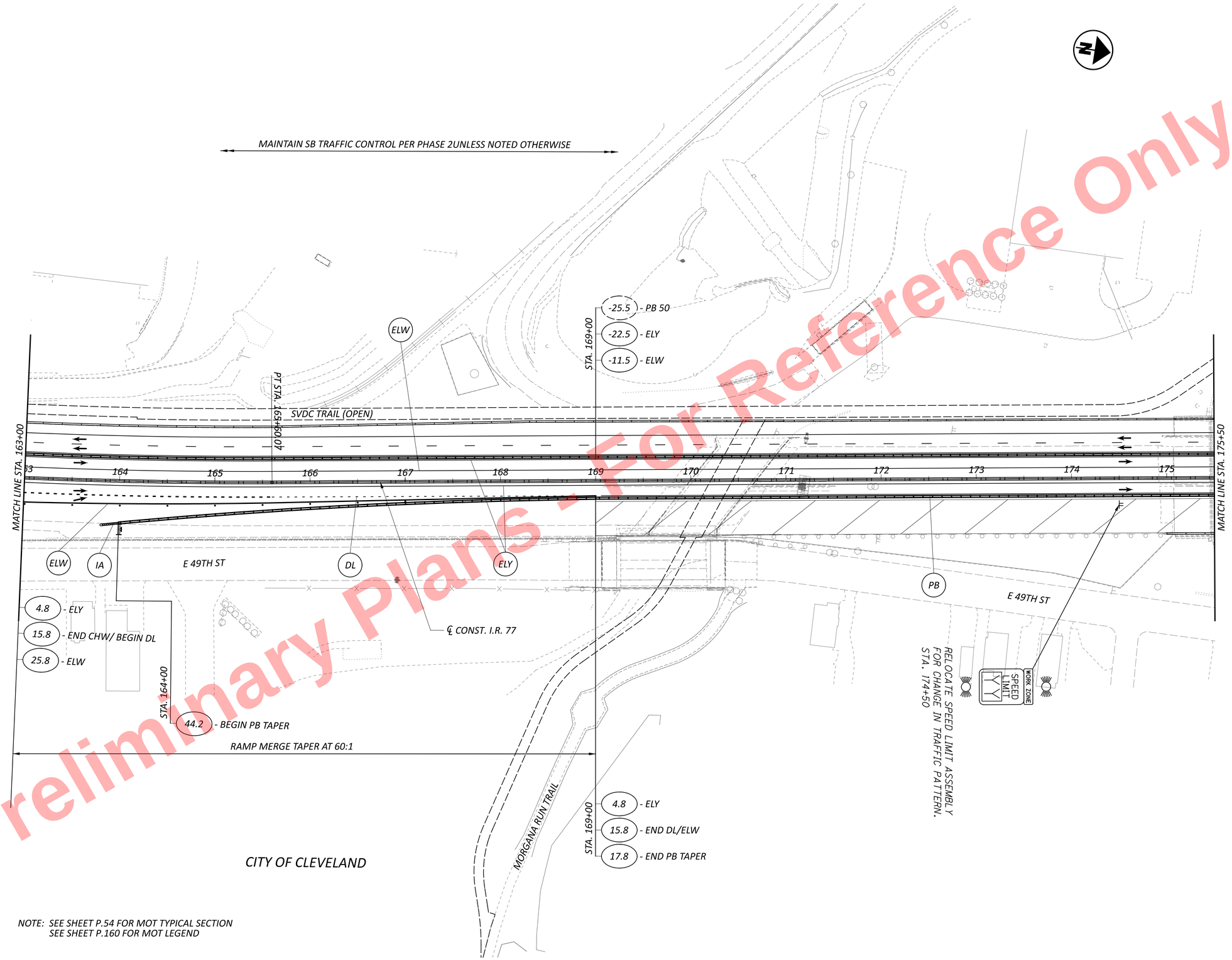
Preliminary Plans - For Reference Only

MAINTAIN SB TRAFFIC CONTROL PER PHASE 2UNLESS NOTED OTHERWISE



NOTE: SEE SHEET P.54 FOR MOT TYPICAL SECTION
SEE SHEET P.160 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3A
STA. 163+00 TO STA. 175+50

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:50 AM USER: kperkins
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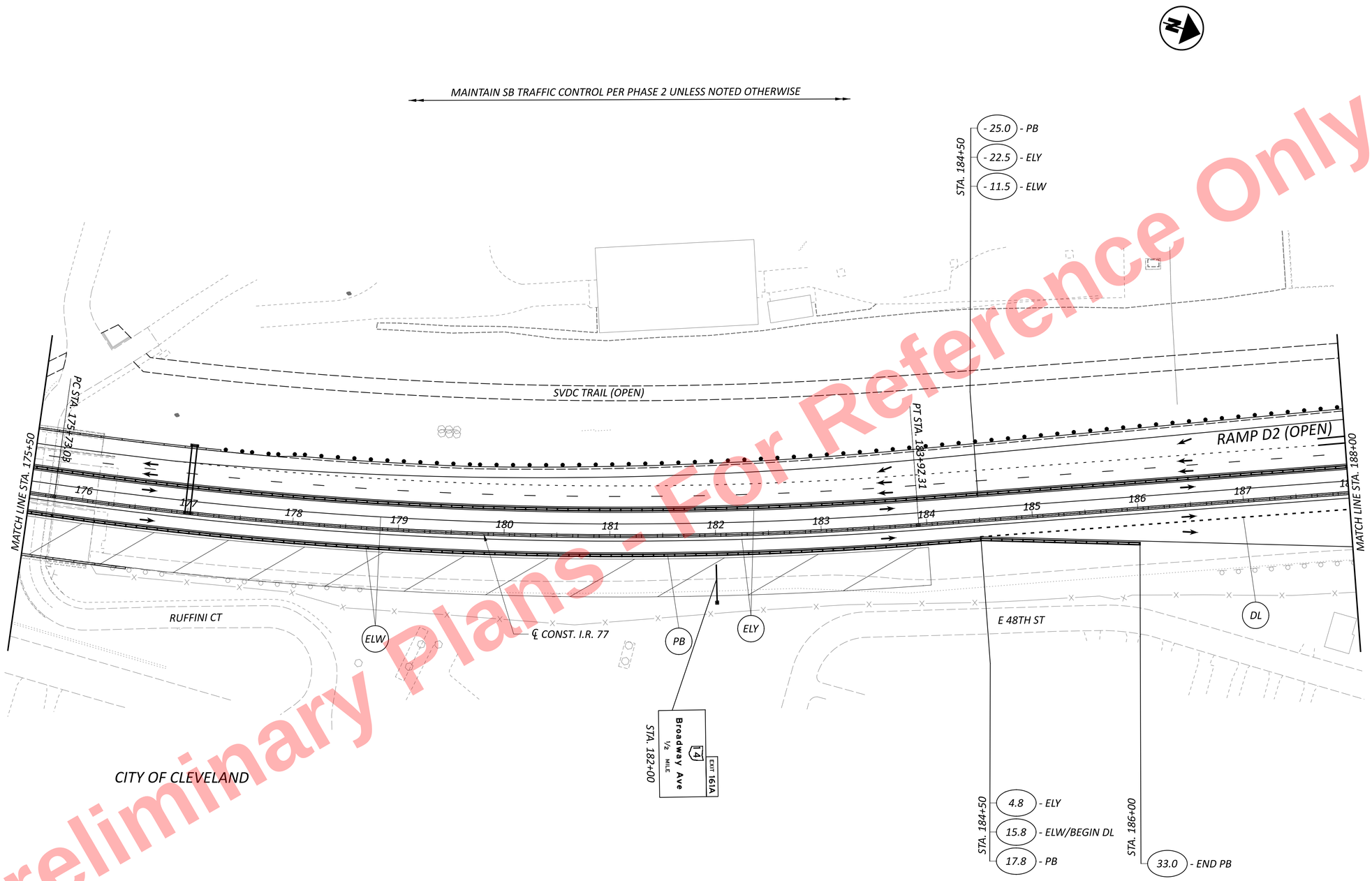
DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.170 TOTAL P.1269



NOTE: SEE SHEET P.54 FOR MOT TYPICAL SECTION
SEE SHEET P.160 FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3A
STA. 175+50 TO STA. 188+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.171 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 12 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:50 AM USER: kperkins
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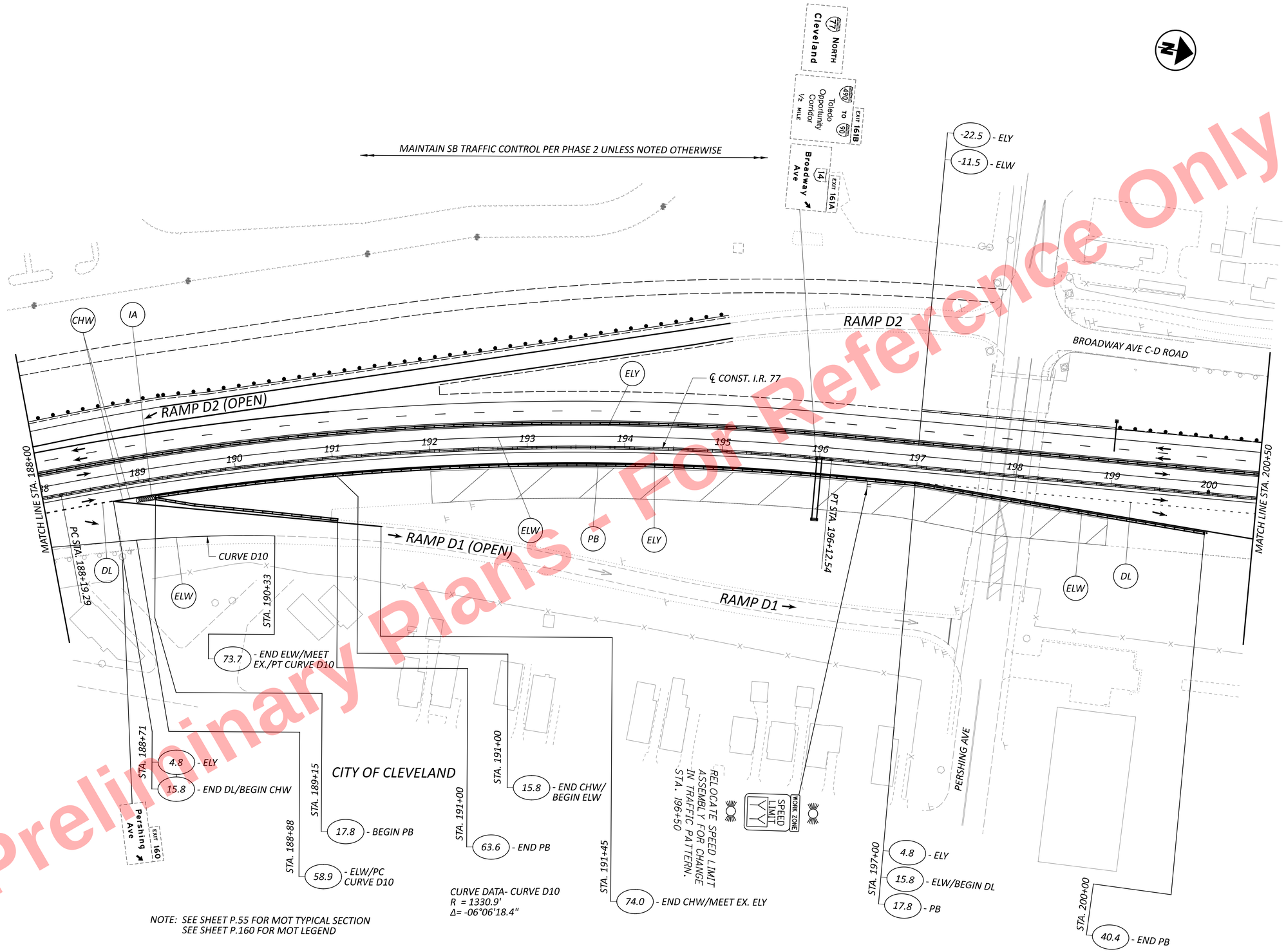
MAINTENANCE OF TRAFFIC - PHASE 3A
STA. 188+00 TO STA. 200+50

HORIZONTAL SCALE IN FEET
0 25 50 100



Preliminary Plans - Not For Reference Only

DESIGN AGENCY
HNTB

DESIGNER	JEM
REVIEWER	MTR 05/01/26
PROJECT ID	105743
SHEET	P.172
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 13 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:51 AM USER: kperkins
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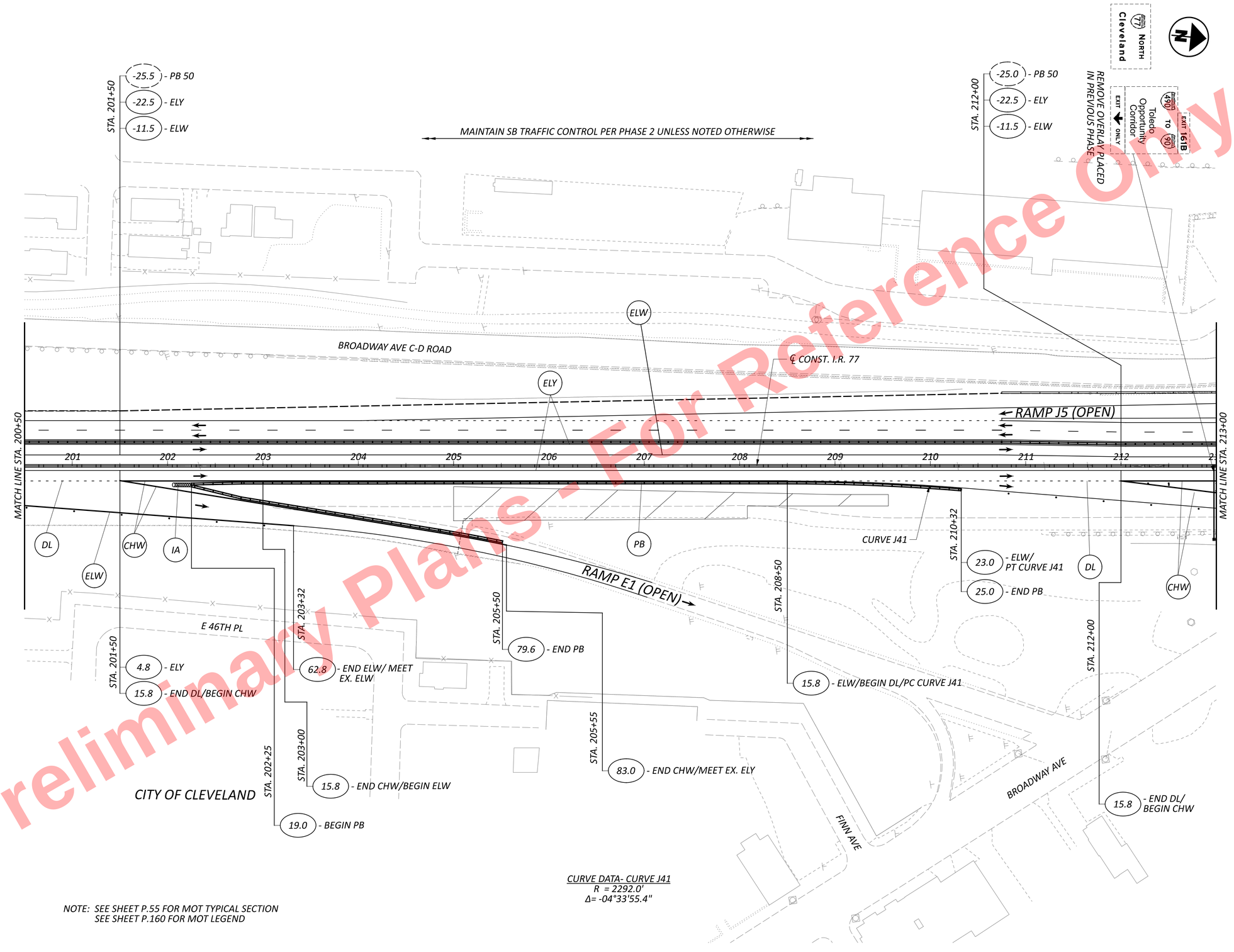
MAINTENANCE OF TRAFFIC - PHASE 3A
STA. 200+50 TO STA. 213+00



CURVE DATA- CURVE J41
R = 2292.0'
Δ= -04°33'55.4"

NOTE: SEE SHEET P.55 FOR MOT TYPICAL SECTION
SEE SHEET P.160 FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.173 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_i077 - Plan 14 |Sheet| PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:51 AM USER: kperkins
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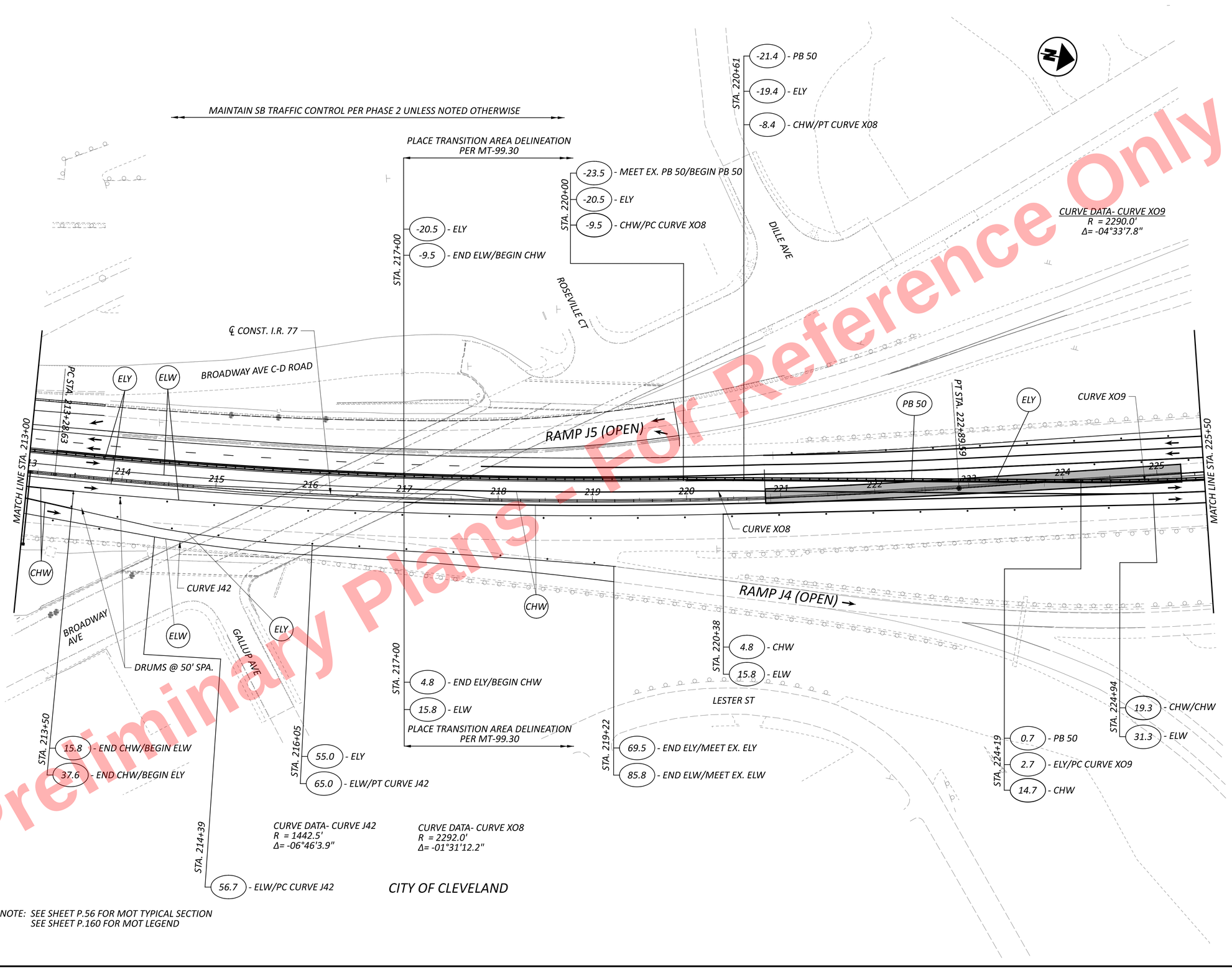

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3A
STA. 213+00 TO STA. 225+50

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 15 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:52 AM USER: kperkins
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DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.174 TOTAL P.1269

MODEL: CLP_I077 - Plan 16 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:53 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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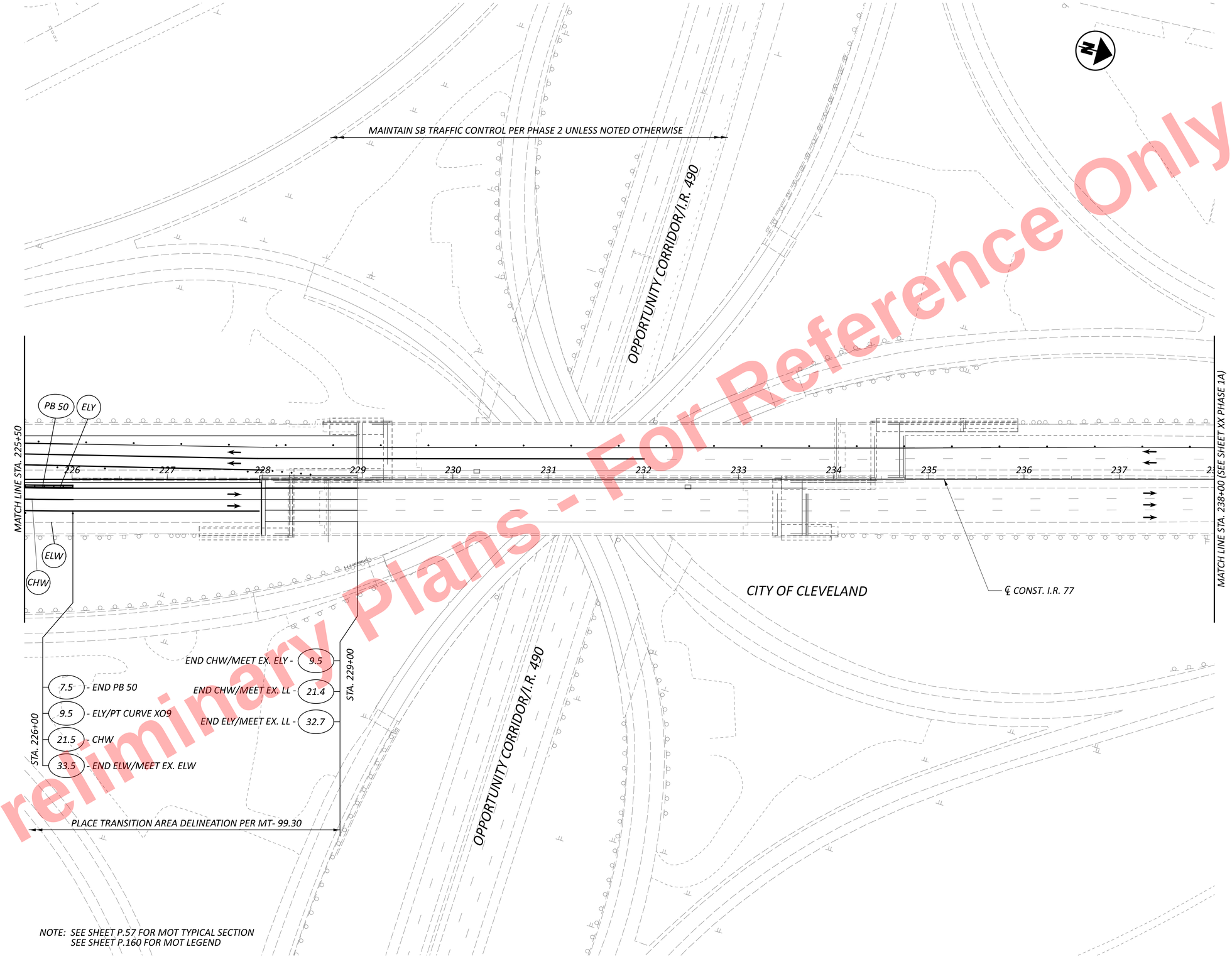
CUY-77-11.41 - PART 1



NOTE: SEE SHEET P.57 FOR MOT TYPICAL SECTION
SEE SHEET P.160 FOR MOT LEGEND

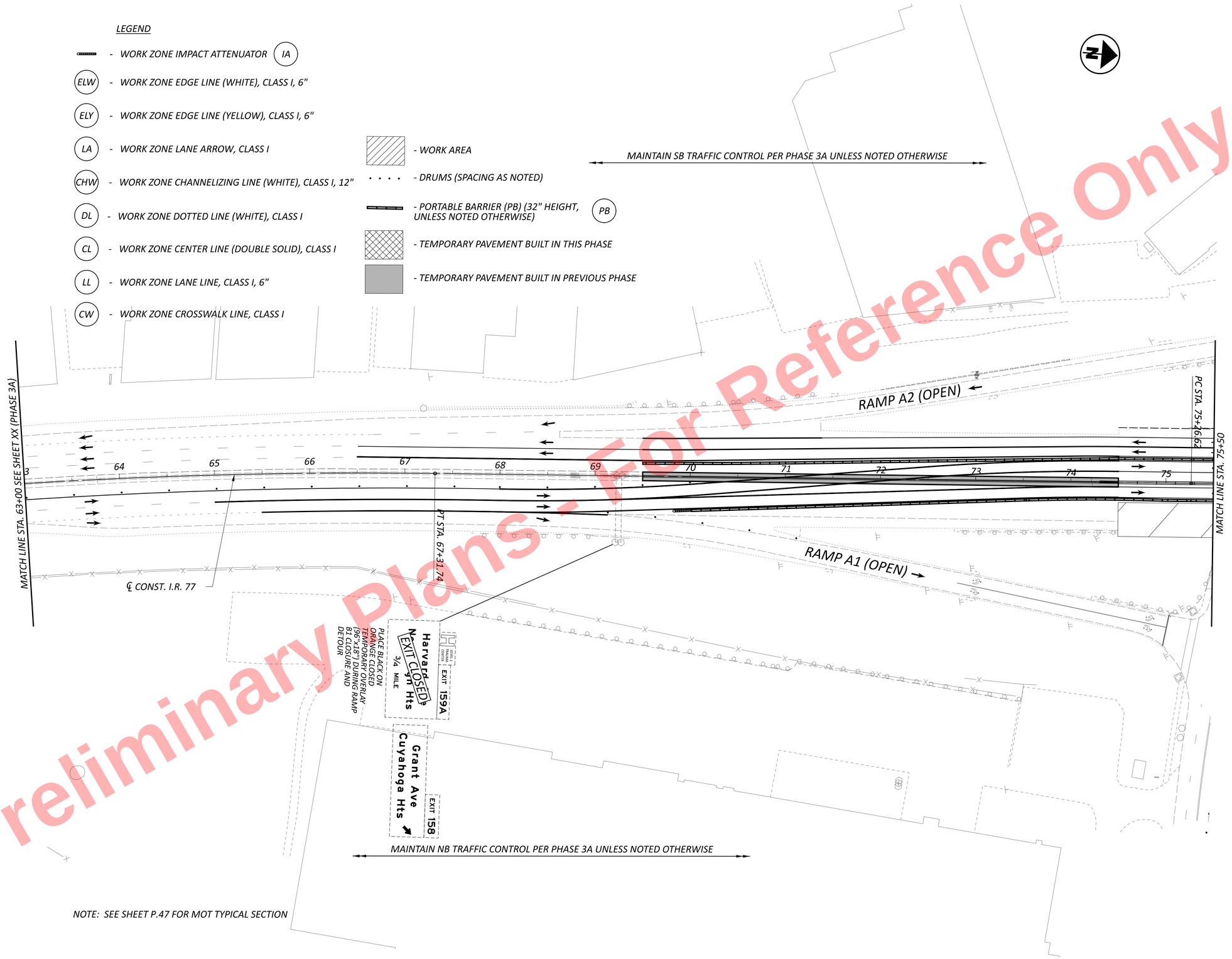
Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 50 100
25

MAINTENANCE OF TRAFFIC - PHASE 3A
STA. 225+50 TO STA. 238+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.175 TOTAL P.1269



NOTE: SEE SHEET P.47 FOR MOT TYPICAL SECTION

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3B
STA. 63+00 TO STA. 75+50

DESIGN AGENCY
HNTB

DESIGNER
JEM

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.176 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077_South - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:02 AM USER: kperkins
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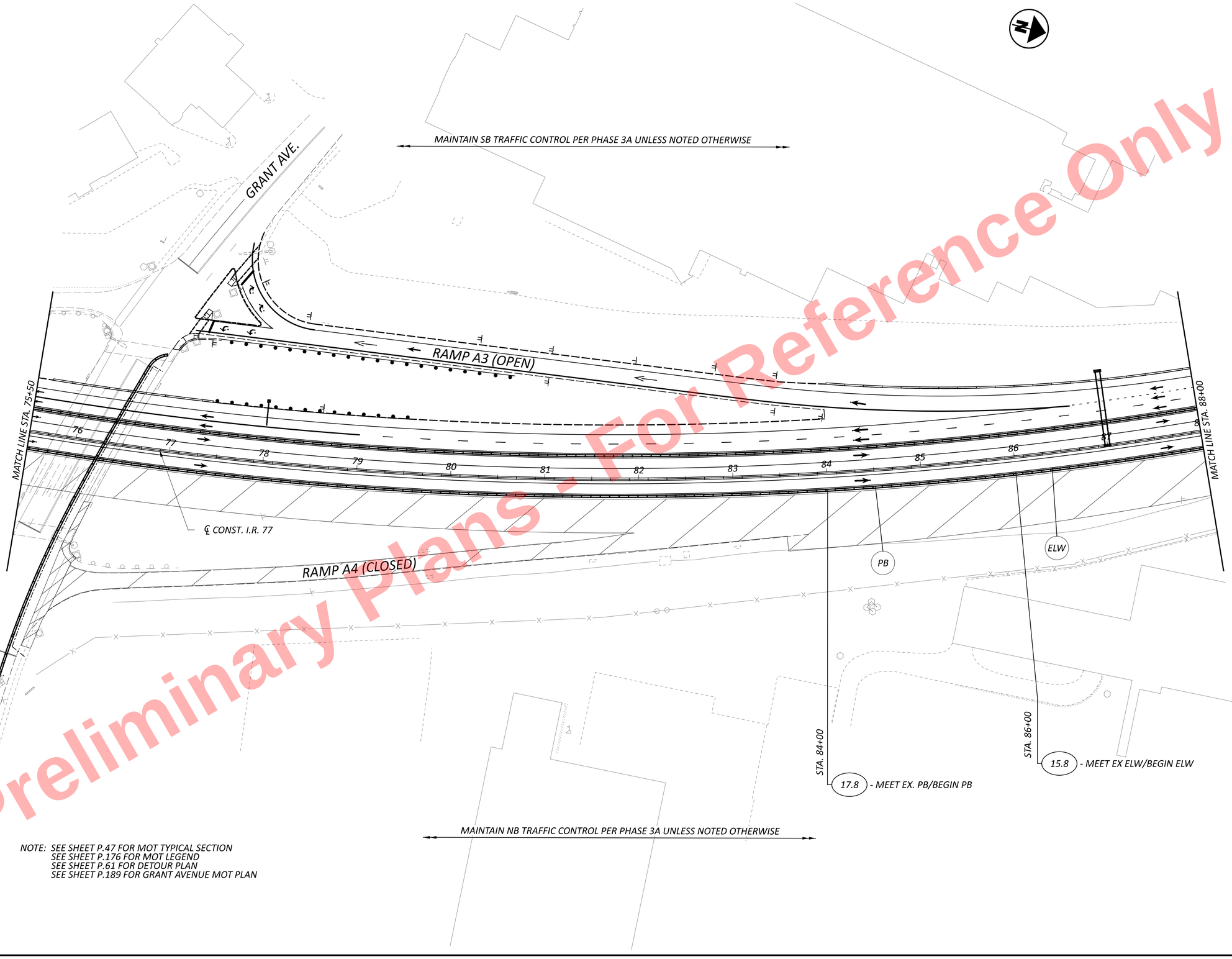

NOTE: SEE SHEET P.47 FOR MOT TYPICAL SECTION
SEE SHEET P.176 FOR MOT LEGEND
SEE SHEET P.61 FOR DETOUR PLAN
SEE SHEET P.189 FOR GRANT AVENUE MOT PLAN

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3B
STA. 75+50 TO STA. 88+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.177 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:03 AM USER: kperkins
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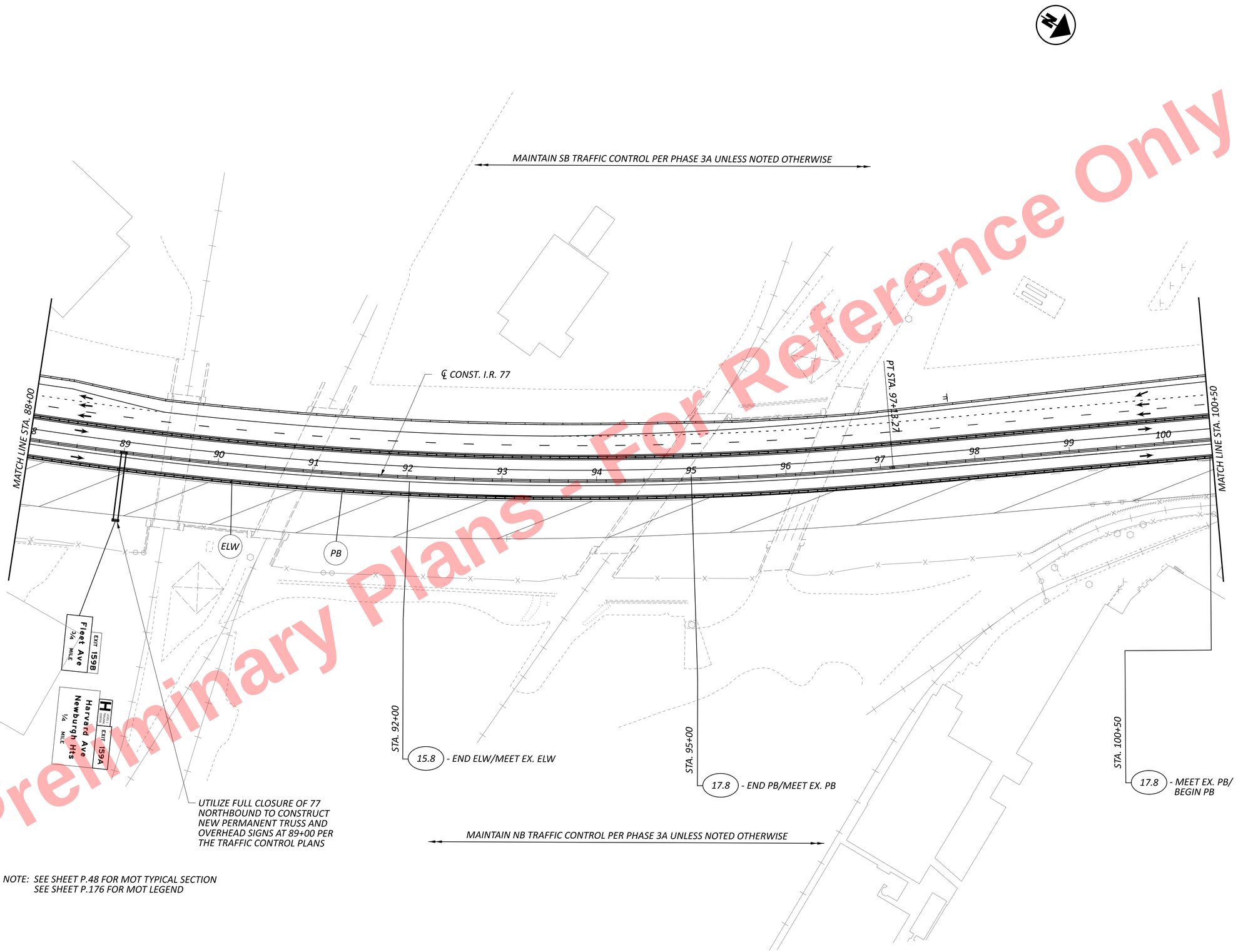
Preliminary Plans - For Reference Only



NOTE: SEE SHEET P.48 FOR MOT TYPICAL SECTION
SEE SHEET P.176 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3B
STA. 88+00 TO STA. 100+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.178 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:03 AM USER: kperkins
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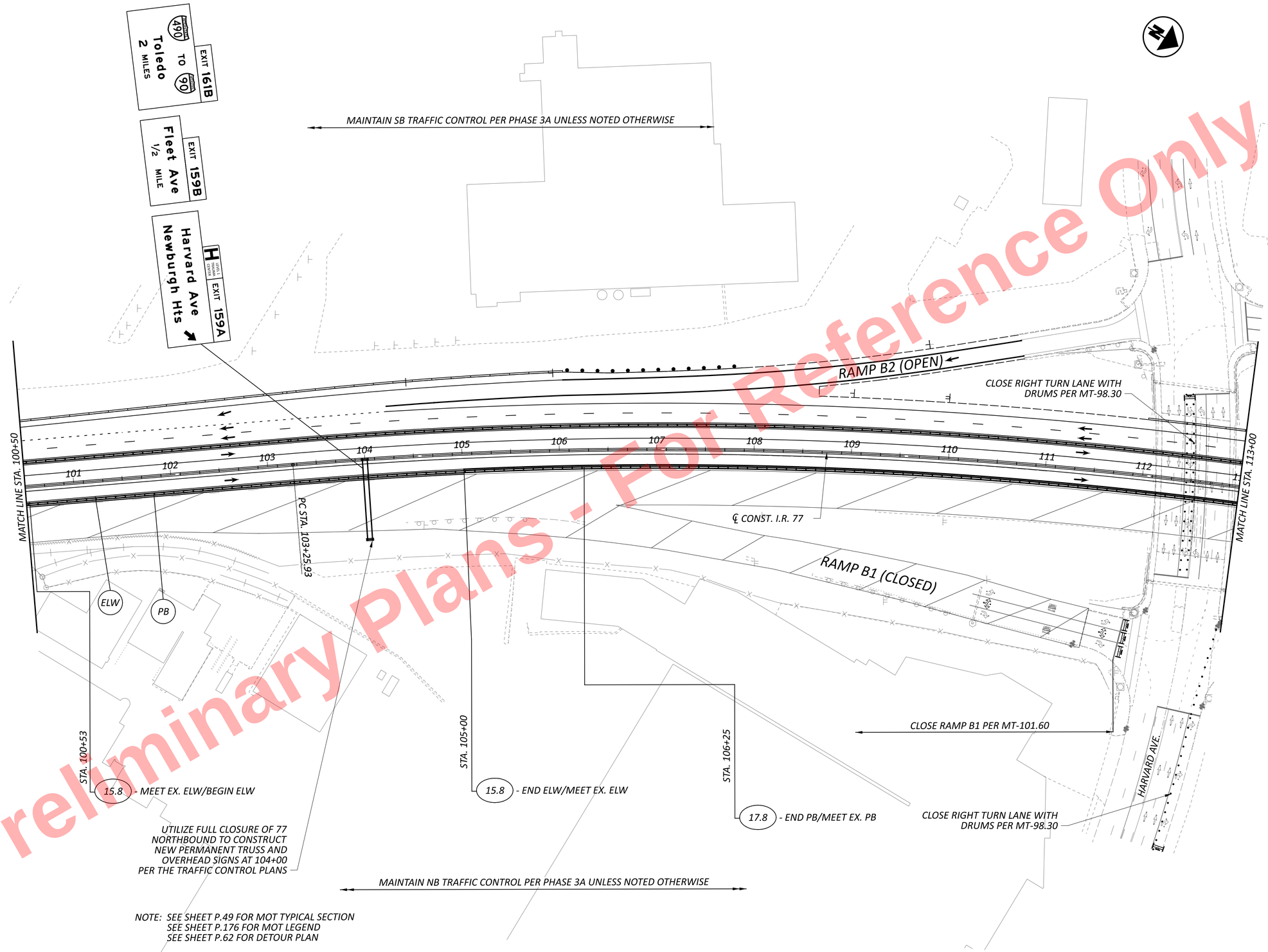

NOTE: SEE SHEET P.49 FOR MOT TYPICAL SECTION
SEE SHEET P.176 FOR MOT LEGEND
SEE SHEET P.62 FOR DETOUR PLAN

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3B
STA. 100+50 TO STA. 113+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.179 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:04 AM USER: kperkins
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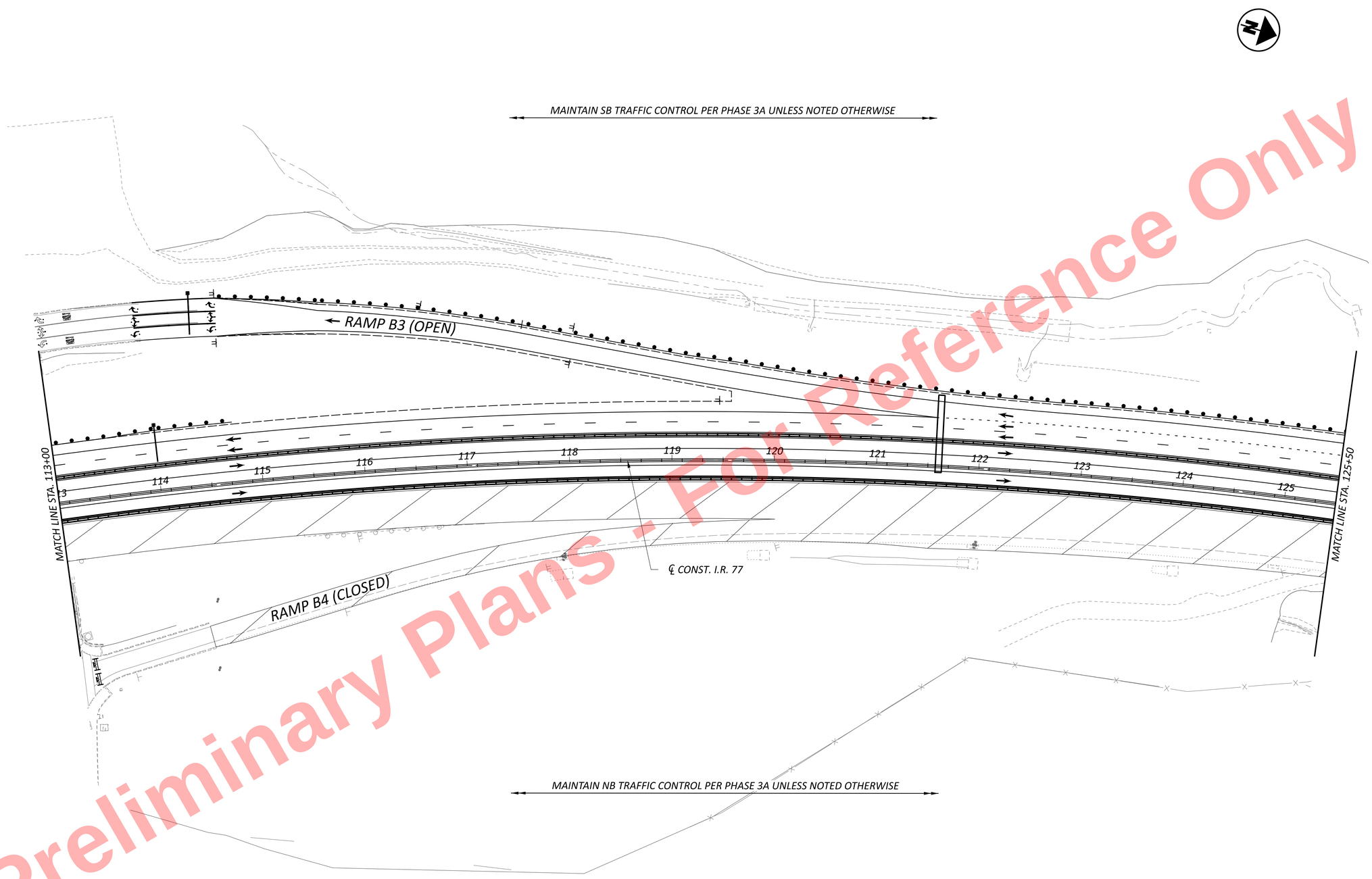
Preliminary Plans - For Reference Only



NOTE: SEE SHEET P.117 FOR MOT TYPICAL SECTION
SEE SHEET P.176 FOR MOT LEGEND
SEE SHEET P.64 FOR DETOUR PLAN FOR RAMP B4

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3B
STA. 113+00 TO STA. 125+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.180 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:04 AM USER: kperkins
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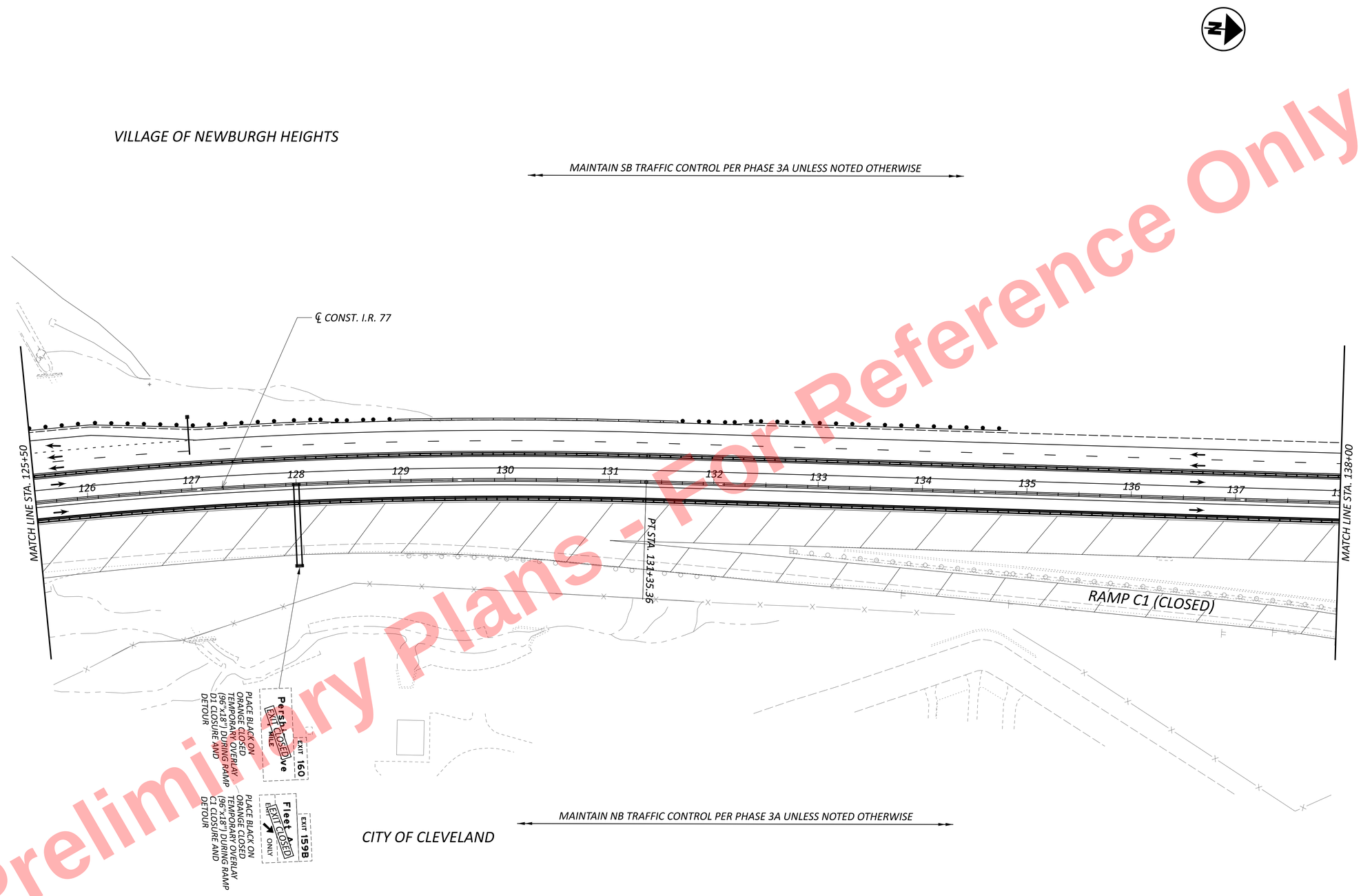

NOTE: SEE SHEET P.51 FOR MOT TYPICAL SECTION
SEE SHEET P.176 FOR MOT LEGEND
SEE SHEET P.65 FOR DETOUR PLAN

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3B
STA. 125+50 TO STA. 138+00

DESIGN AGENCY
HNTB

DESIGNER
JEM

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.181 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:05 AM USER: kperkins
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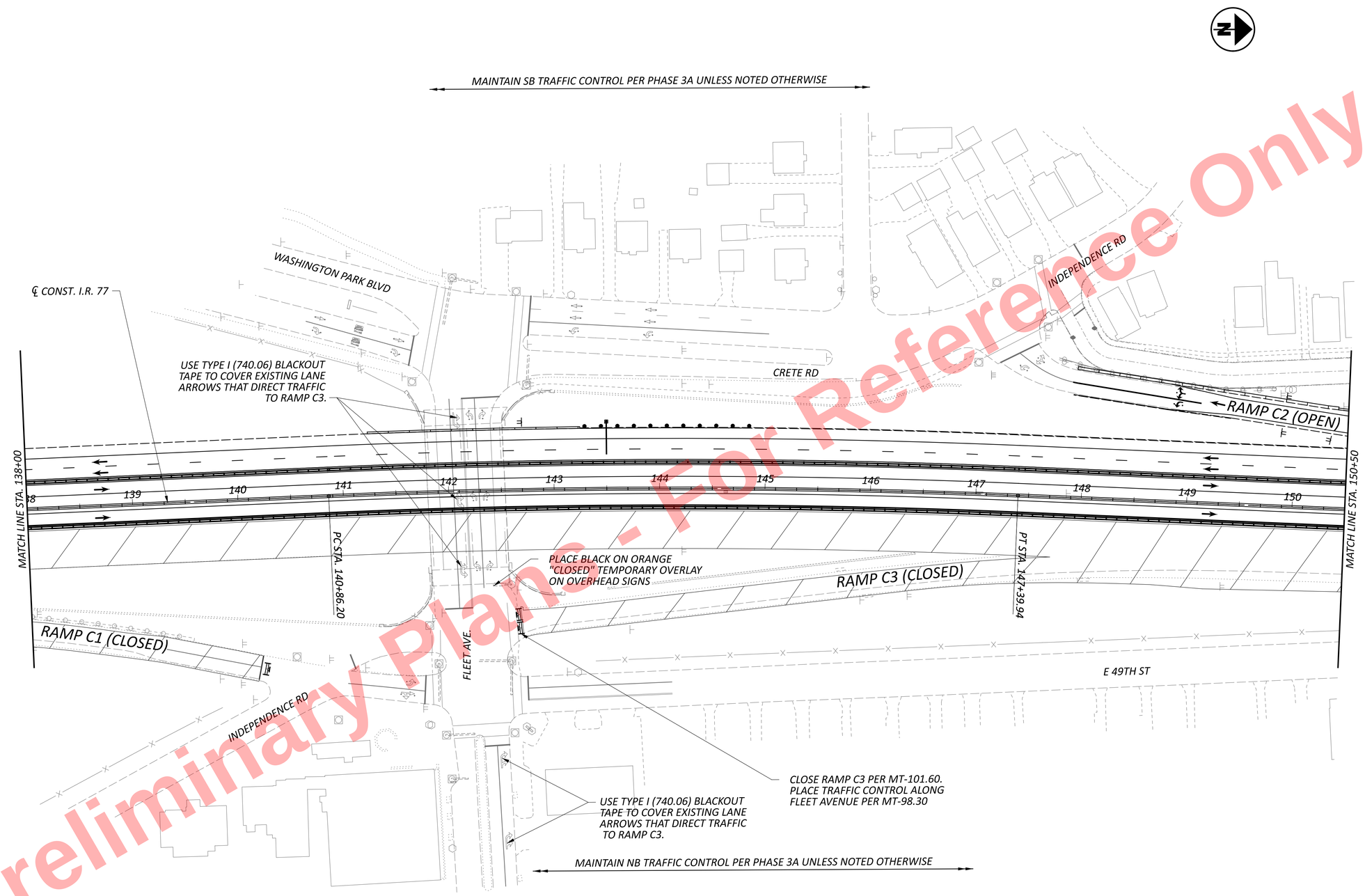

NOTE: SEE SHEET XX FOR MOT TYPICAL SECTION
SEE SHEET XX FOR MOT LEGEND
SEE SHEET XX FOR DETOUR PLAN FOR RAMP C1
SEE SHEET XX FOR DETOUR PLAN FOR RAMP C3

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3B
STA. 138+00 TO STA. 150+50

DESIGN AGENCY
HNTB

DESIGNER
JEM

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.182 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:05 AM USER: kperkins
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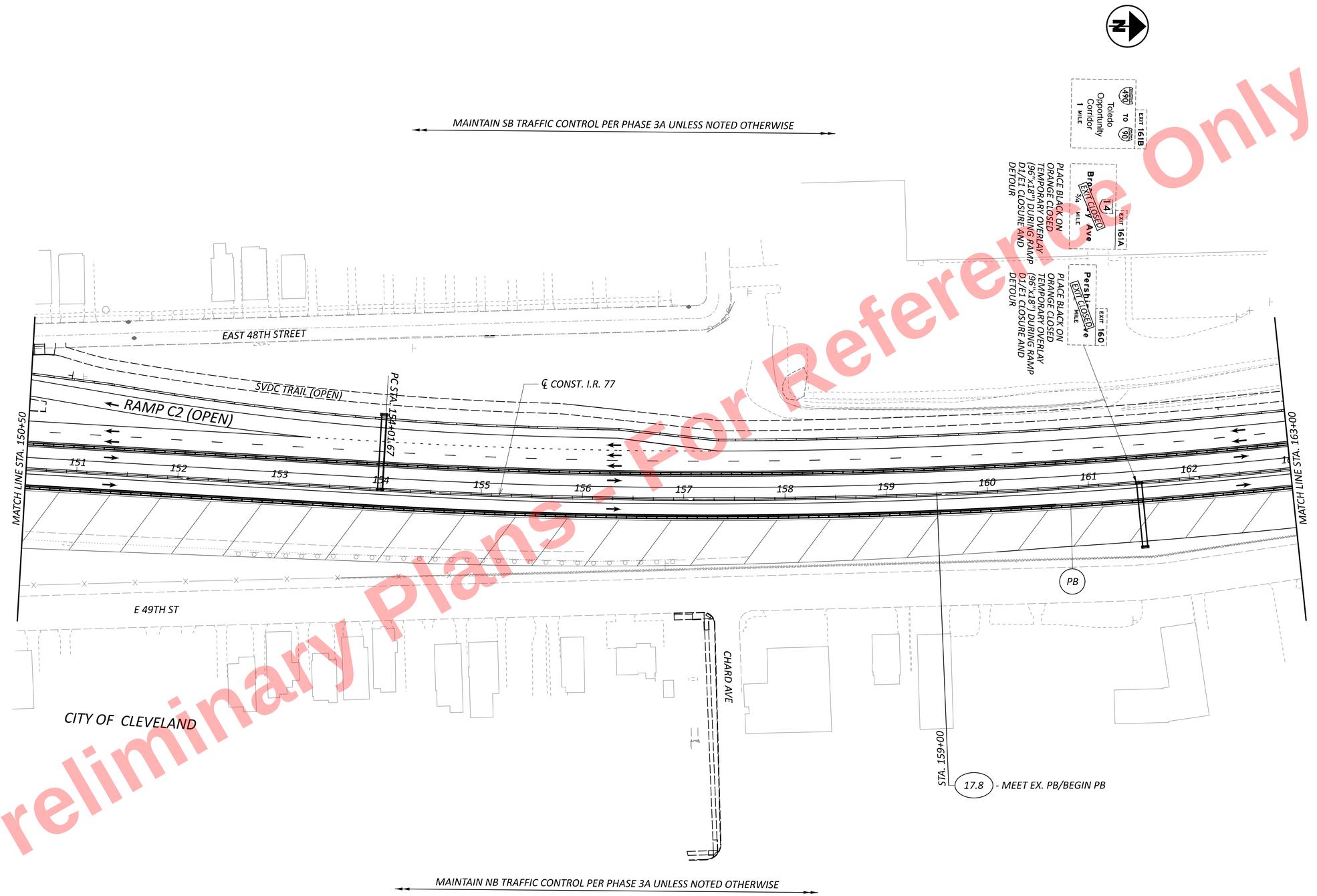

NOTE: SEE SHEET P.54 FOR MOT TYPICAL SECTION
SEE SHEET P.176 FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3B
STA. 150+50 TO STA. 163+00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:06 AM USER: kperkins
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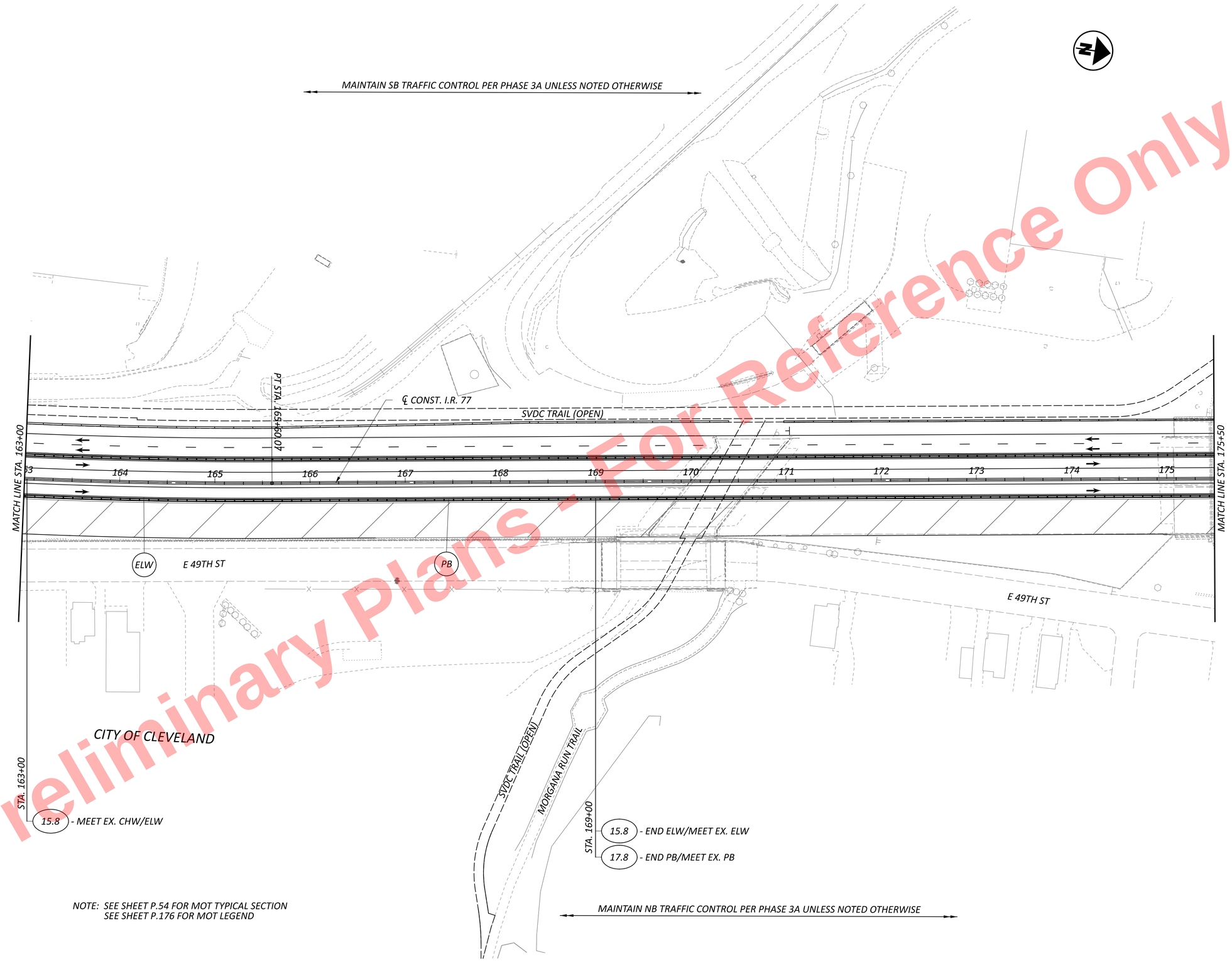
DESIGN AGENCY
HNTB

DESIGNER	JEM
REVIEWER	MTR 05/01/26
PROJECT ID	105743
SHEET	P.183
TOTAL	P.1269

Preliminary Plans - For Reference Only



NOTE: SEE SHEET P.54 FOR MOT TYPICAL SECTION
SEE SHEET P.176 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3B
STA. 163+00 TO STA. 175+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.184 TOTAL P.1269

CUY-77-11.41 - PART 1

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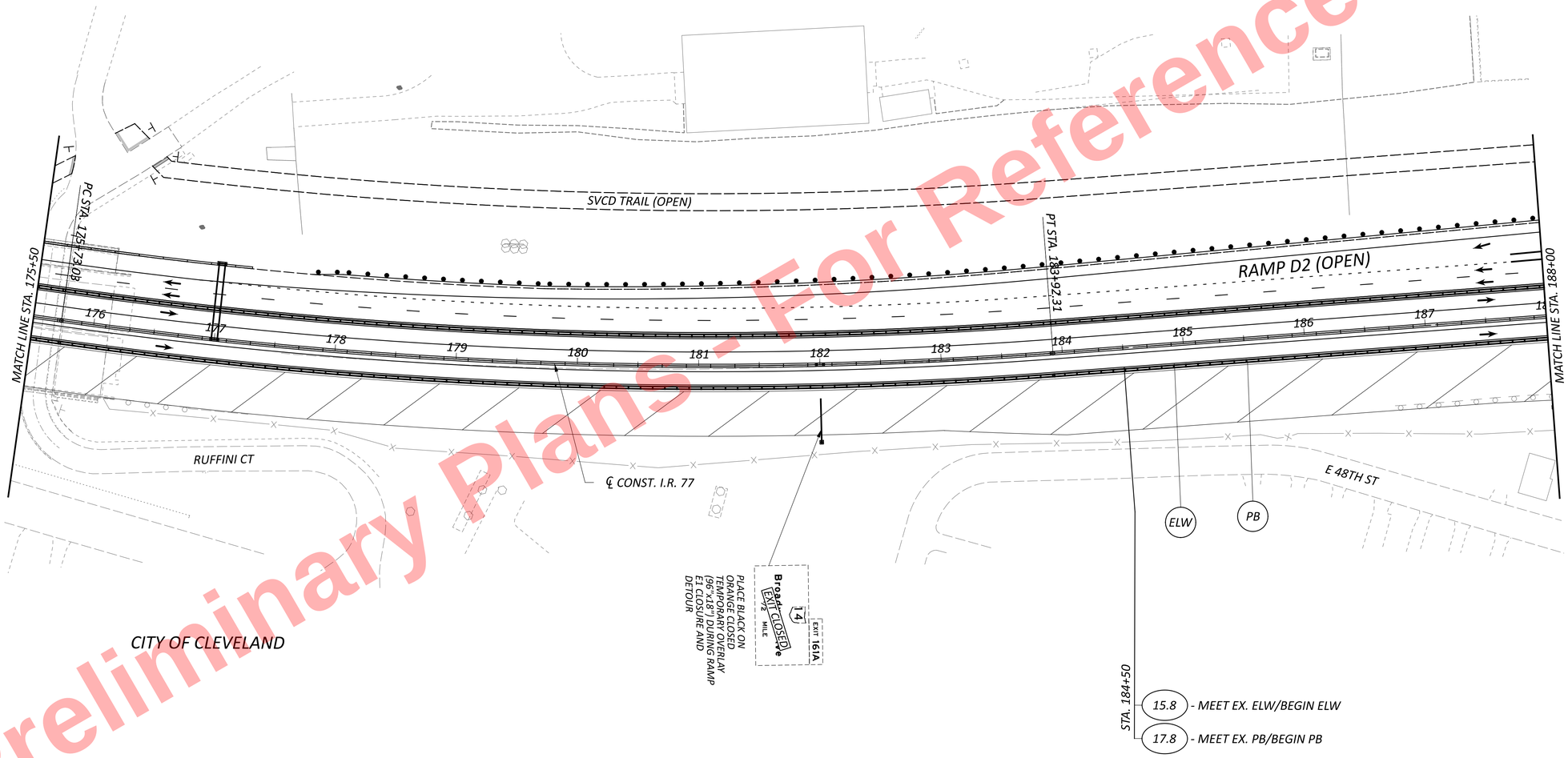
Preliminary Plans - For Reference Only

MAINTAIN SB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE



MAINTAIN NB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET P.54 FOR MOT TYPICAL SECTION
SEE SHEET P.176 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3B
STA. 175+50 TO STA. 188+00

DESIGN AGENCY
HNTB

DESIGNER	JEM
REVIEWER	MTR 05/01/26
PROJECT ID	105743
SHEET	P.185
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 12 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:07 AM USER: kperkins
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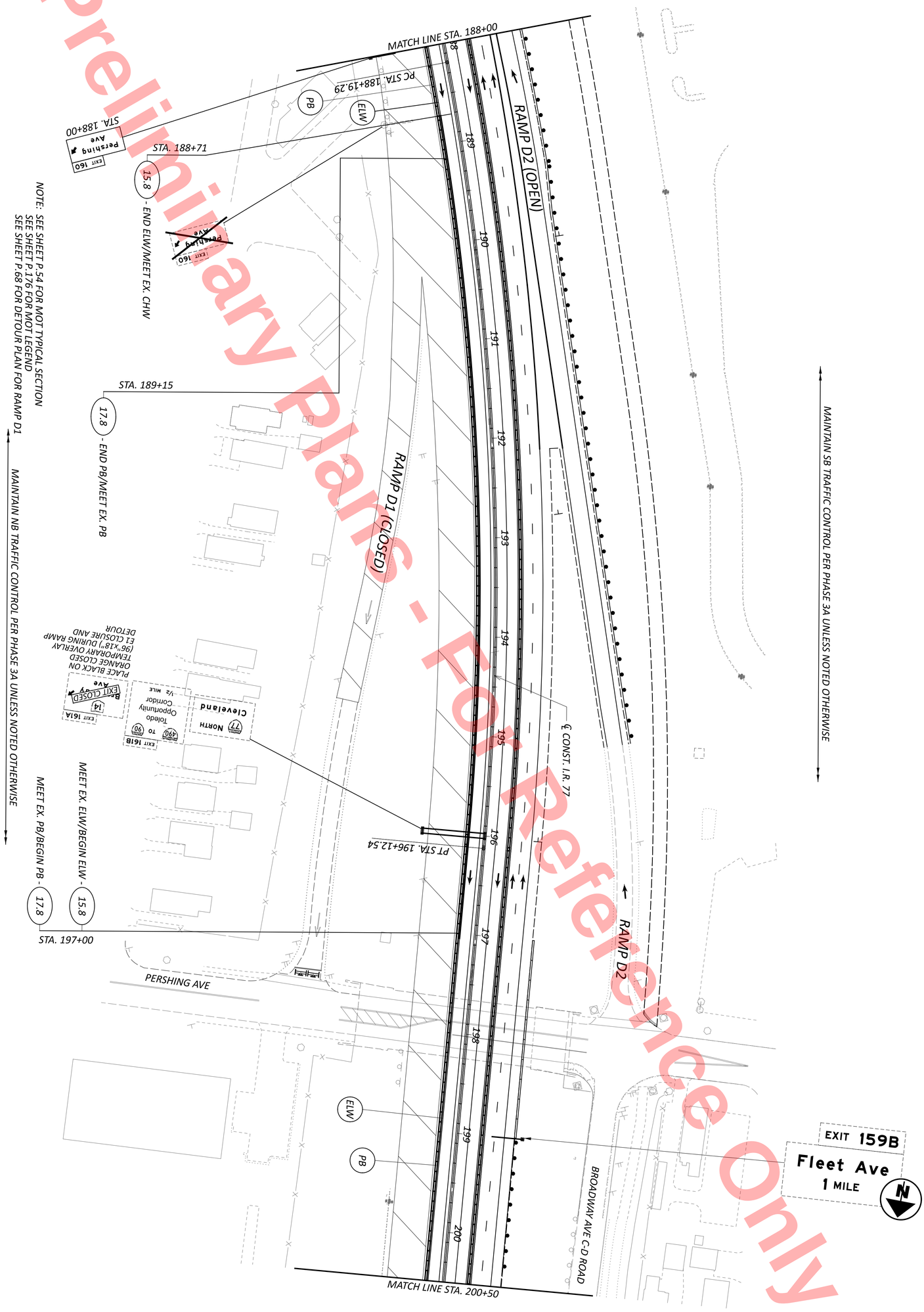


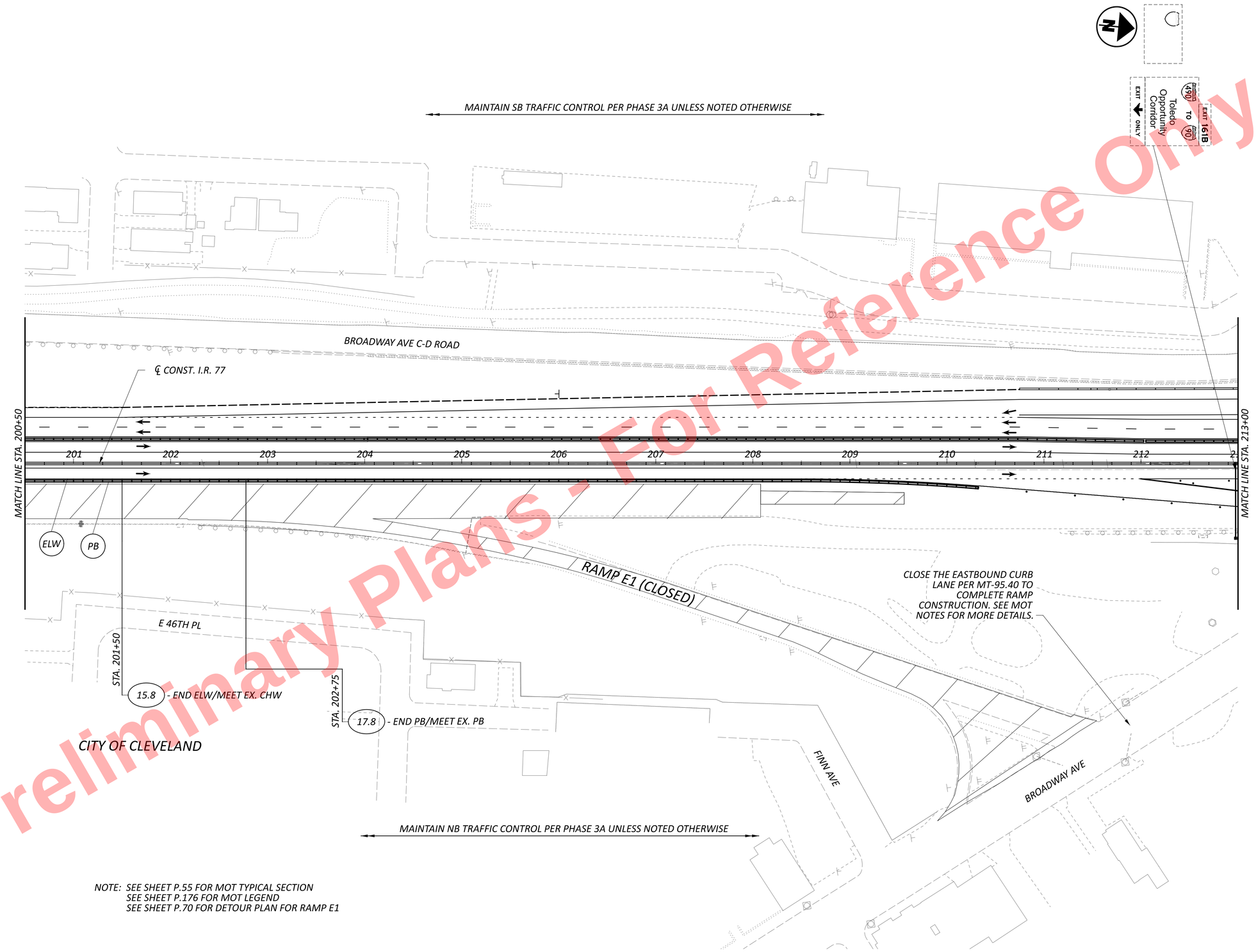
Preliminary Plans - For Reference Only

DESIGN AGENCY: HNTB	DESIGNER: JEM	REVIEWER: MTR 05/01/26	PROJECT ID: 105743
SHEET: P.186	TOTAL: P.1269		

MAINTENANCE OF TRAFFIC - PHASE 3B
STA. 188+00 TO STA. 200+50

HORIZONTAL SCALE IN FEET
0 25 50 100

Preliminary Plans - For Reference Only



NOTE: SEE SHEET P.55 FOR MOT TYPICAL SECTION
SEE SHEET P.176 FOR MOT LEGEND
SEE SHEET P.70 FOR DETOUR PLAN FOR RAMP E1

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3B
STA. 200+50 TO STA. 213+00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 14 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:08 AM USER: kperkins
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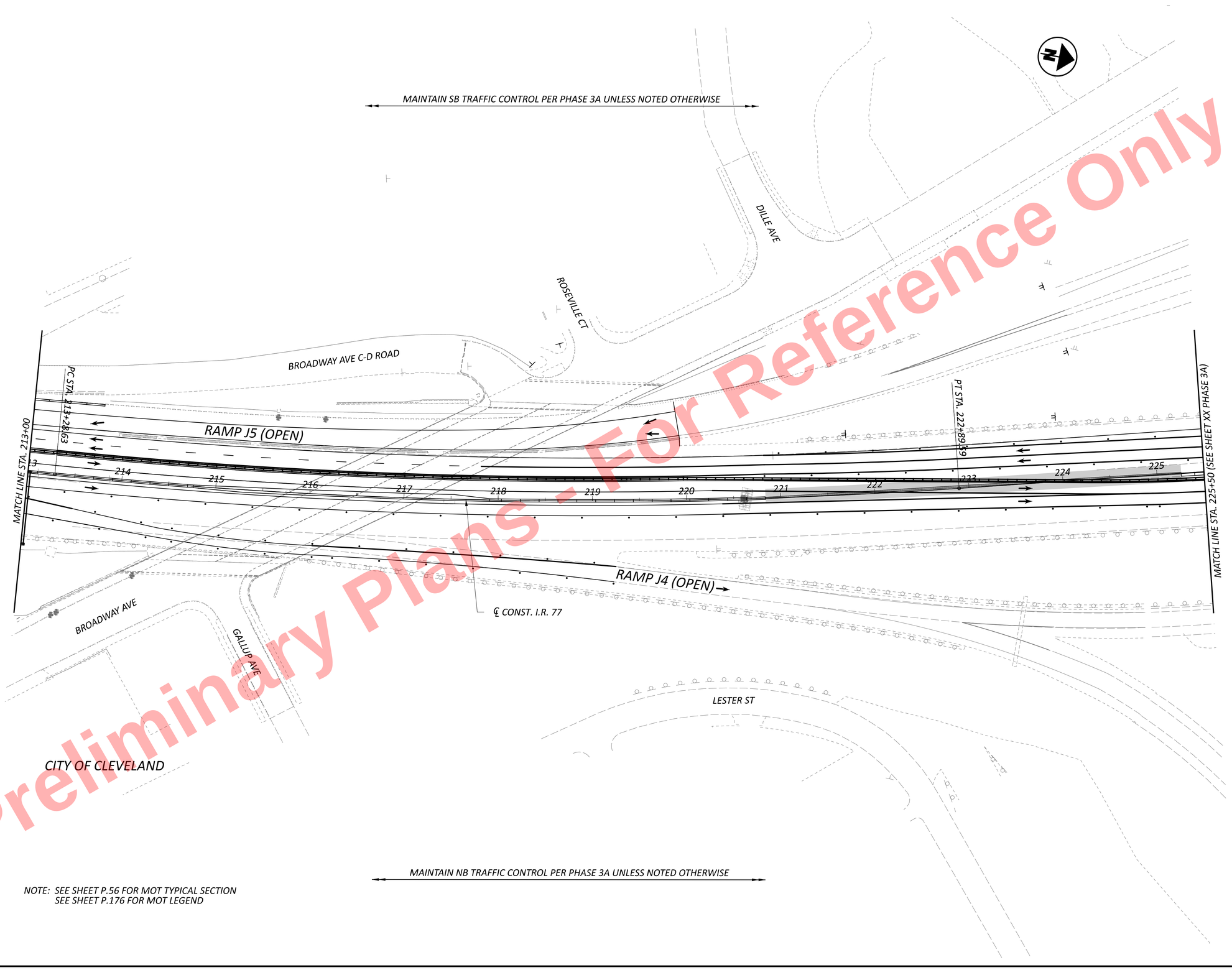
DESIGN AGENCY
HNTB

DESIGNER	JEM
REVIEWER	MTR 05/01/26
PROJECT ID	105743
SHEET	P.187
TOTAL	P.1269

Preliminary Plans - For Reference Only



NOTE: SEE SHEET P.56 FOR MOT TYPICAL SECTION
SEE SHEET P.176 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3B
STA. 213+00 TO STA. 225+50

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 15 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:09 AM USER: kperkins
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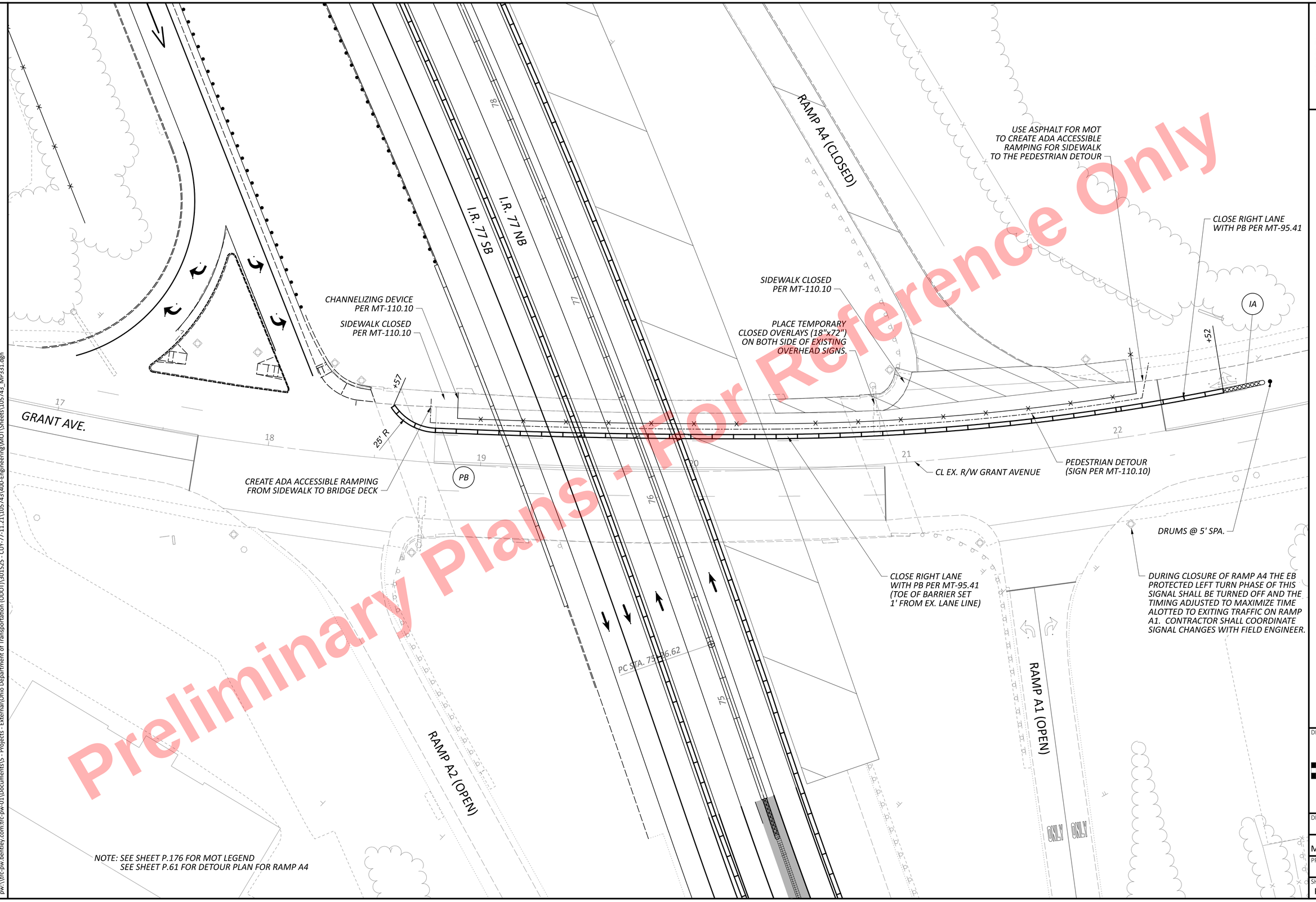
DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.188 TOTAL P.1269



NOTE: SEE SHEET P.176 FOR MOT LEGEND
SEE SHEET P.61 FOR DETOUR PLAN FOR RAMP A4

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3B
GRANT AVENUE

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.189 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Untitled [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:15 AM USER: kperkins
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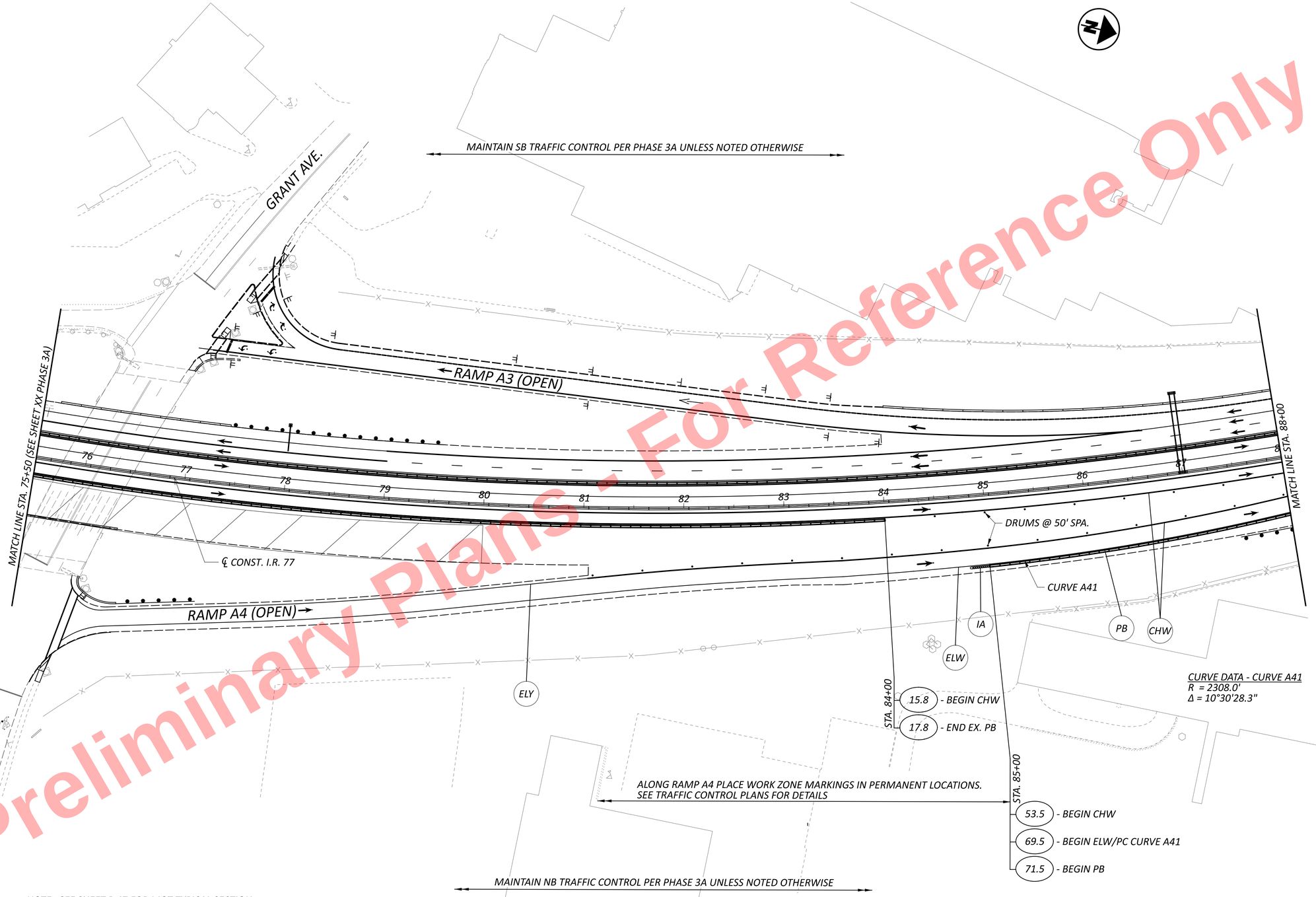
Preliminary Plans - For Reference Only



NOTE: SEE SHEET P.47 FOR MOT TYPICAL SECTION
SEE SHEET P.176 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3C
STA. 75+50 TO STA. 88+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.190 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:22 AM USER: kperkins
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Preliminary Plans - For Reference Only

MAINTAIN SB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE

℄ CONST. I.R. 77

MATCH LINE STA. 88+00

MATCH LINE STA. 100+50

PT STA. 97+83.27

88 89 90 91 92 93 94 95 96 97 98 99 100

CURVE A42

ELW CHW PB DL ELW PB DL

STA. 89+17

29.5 - CHW
45.5 - ELW/PT CURVE A41
47.5 - PB

STA. 90+75

17.7 - CHW
27.7 - ELW/PC CURVE A42
29.7 - PB

STA. 91+50

15.8 - END CHW/BEGIN DL
25.8 - ELW/PT CURVE A42
27.8 - PB

RAMP A4 MERGE TAPER AT 60:1

STA. 97+50

15.8 - END DL/END ELW /MEET EX. ELW
17.8 - END PB /MEET EX. PB

STA. 99+00

15.8 - END EX. ELW /BEGIN ELW/BEGIN DL
17.8 - MEET EX. PB/ BEGIN PB

MAINTAIN NB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE

CURVE DATA - CURVE A42
R = 2292.0'
Δ = 01°53'17.4"

NOTE: SEE SHEET P.48 FOR MOT TYPICAL SECTION
SEE SHEET P.176 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3C
STA. 88+00 TO STA. 100+50

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:24 AM USER: kperkins
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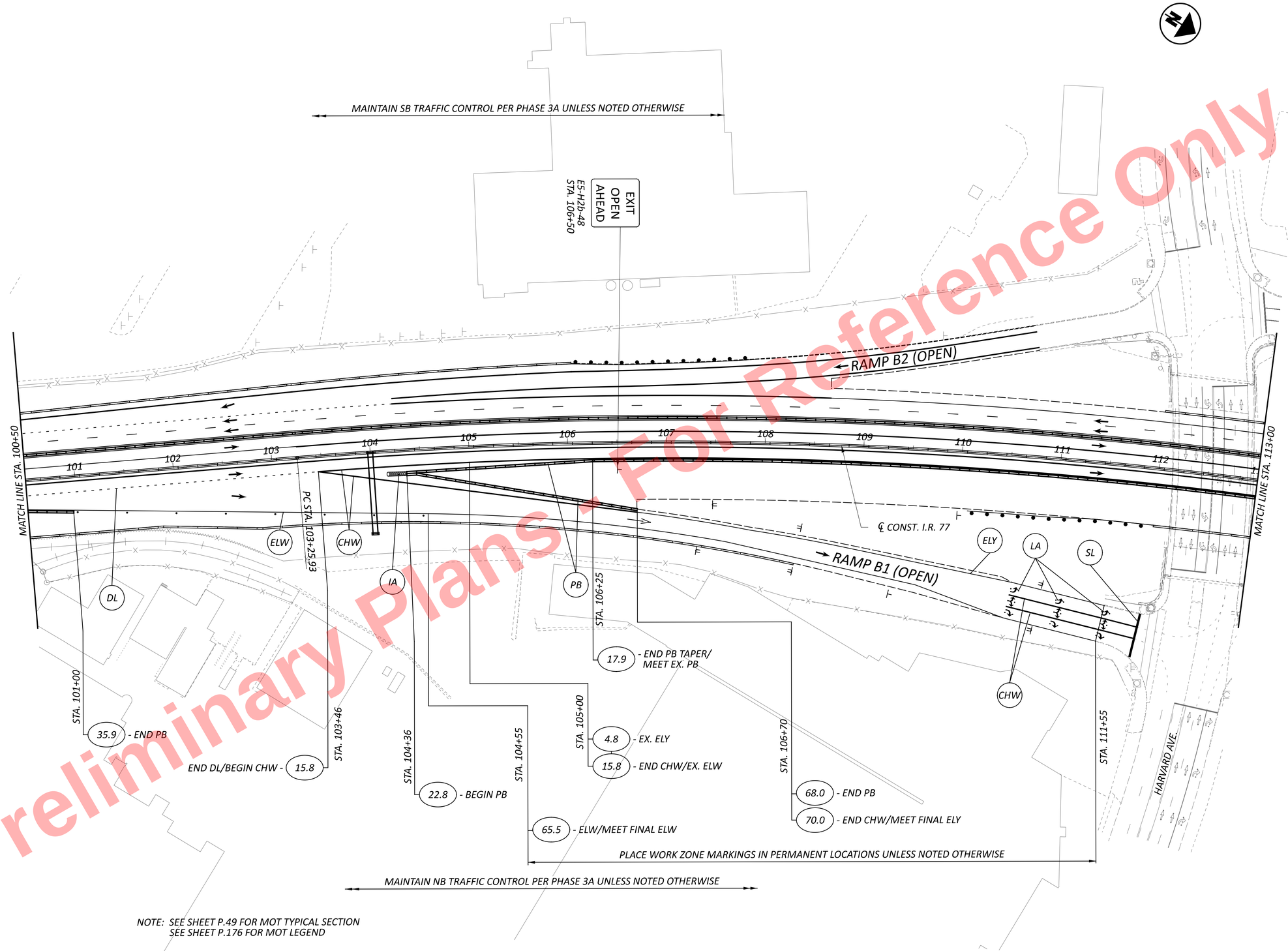
DESIGN AGENCY
HNTB

DESIGNER	JEM
REVIEWER	MTR 05/01/26
PROJECT ID	105743
SHEET	P.191
TOTAL	P.1269



NOTE: SEE SHEET P.49 FOR MOT TYPICAL SECTION
SEE SHEET P.176 FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3C
STA. 100+50 TO STA. 113+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.192 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:24 AM USER: kperkins
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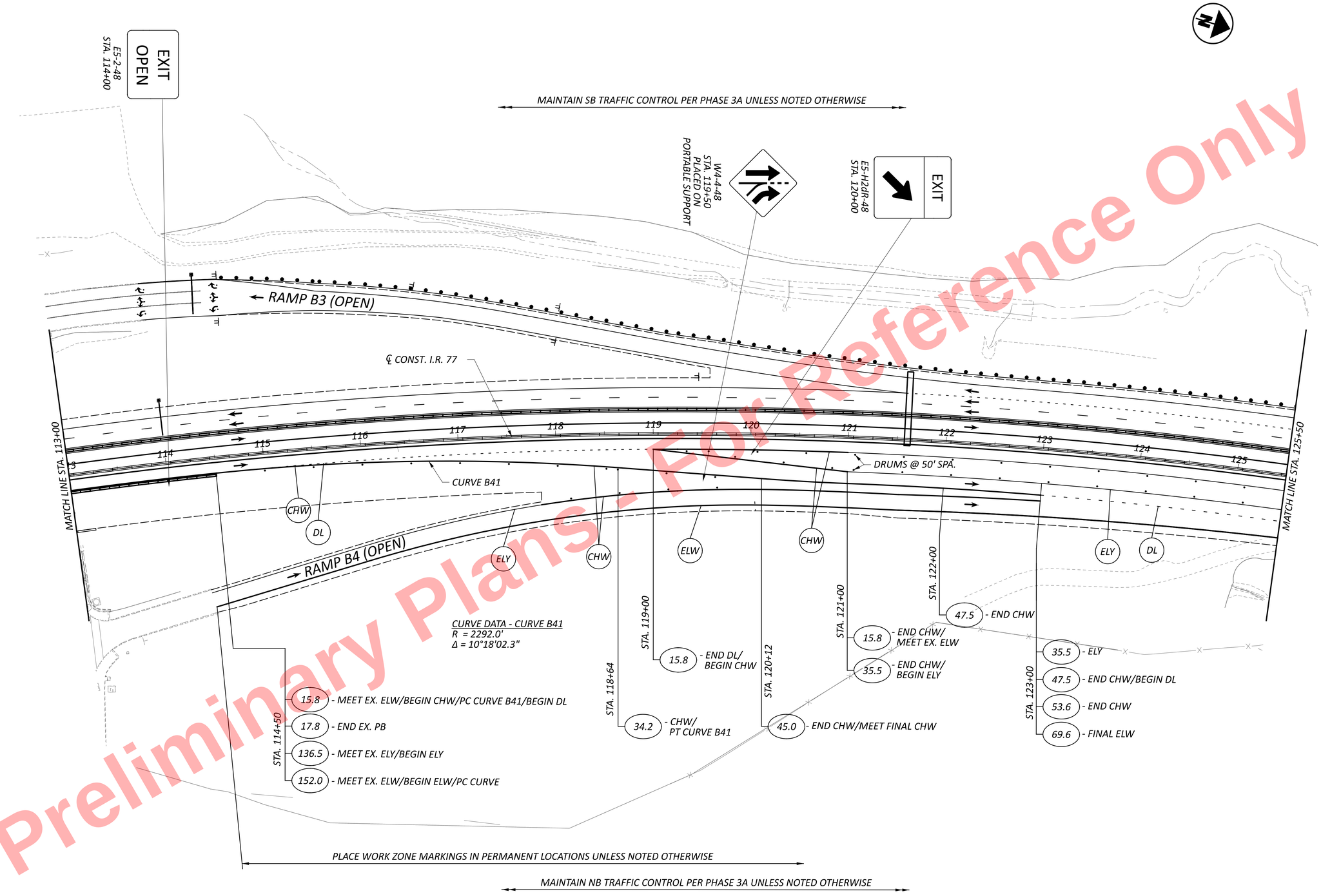

NOTE: SEE SHEET P.50 FOR MOT TYPICAL SECTION
SEE SHEET P.176 FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3C
STA. 113+00 TO STA. 125+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.193 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:25 AM USER: kperkins
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Preliminary Plans - For Reference Only

MAINTAIN SB TRAFFIC CONTROL PER PHASE 2 UNLESS NOTED OTHERWISE

VILLAGE OF NEWBURGH HEIGHTS

W4-1R-48
STA. 129+63

TYPE A WARNING LIGHT

R1-2-48
STA. 135+00

℄ CONST. I.R. 77

MATCH LINE STA. 125+50

126 127 128 129 130 131 132 133 134 135 136 137

MATCH LINE STA. 138+00

DL ELY ELW CHW IA PB ELY

PC STA. 131+35.36

CURVE C12

RAMP C1 (OPEN)

BEGIN PB,
+00, 45.6' RT

CURVE DATA - CURVE C11
R = 2304.0'
Δ = 0°35'37.7"

CURVE DATA - CURVE C12
R = 2292.0'
Δ = 02°45'05.7"

STA. 136+00
- 6.5 - ELY
- 25.8 - DL
- 25.8 - ELW
- 27.8 - PB

RAMP MERGE TAPER AT 60:1

STA. 129+63
- END ELY/BEGIN CHW - 15.8
- END ELY/BEGIN CHW - 35.5
- END DL/BEGIN CHW/MEET FINAL CHW/PC CURVE C11 - 47.5
- FINAL ELW - 63.5

STA. 129+86
- 35.3 - CHW
- 47.3 - CHW/PT CURVE C11

STA. 132+91
- 68.2 - END PB
- 70.2 - END CHW/ MEET FINAL ELY

STA. 133+90
- 18.4 - CHW
- 28.4 - END CHW/ BEGIN ELW/PC CURVE C12

STA. 135+00
- 15.8 - END CHW/BEGIN DL
- 25.8 - ELW/PT CURVE C12
- 27.8 - PB

CITY OF CLEVELAND

MAINTAIN NB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET P.51 FOR MOT TYPICAL SECTION
SEE SHEET P.176 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3C
STA. 125+50 TO STA. 138+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.194 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 8 (Sheet) PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:25 AM USER: kperkins
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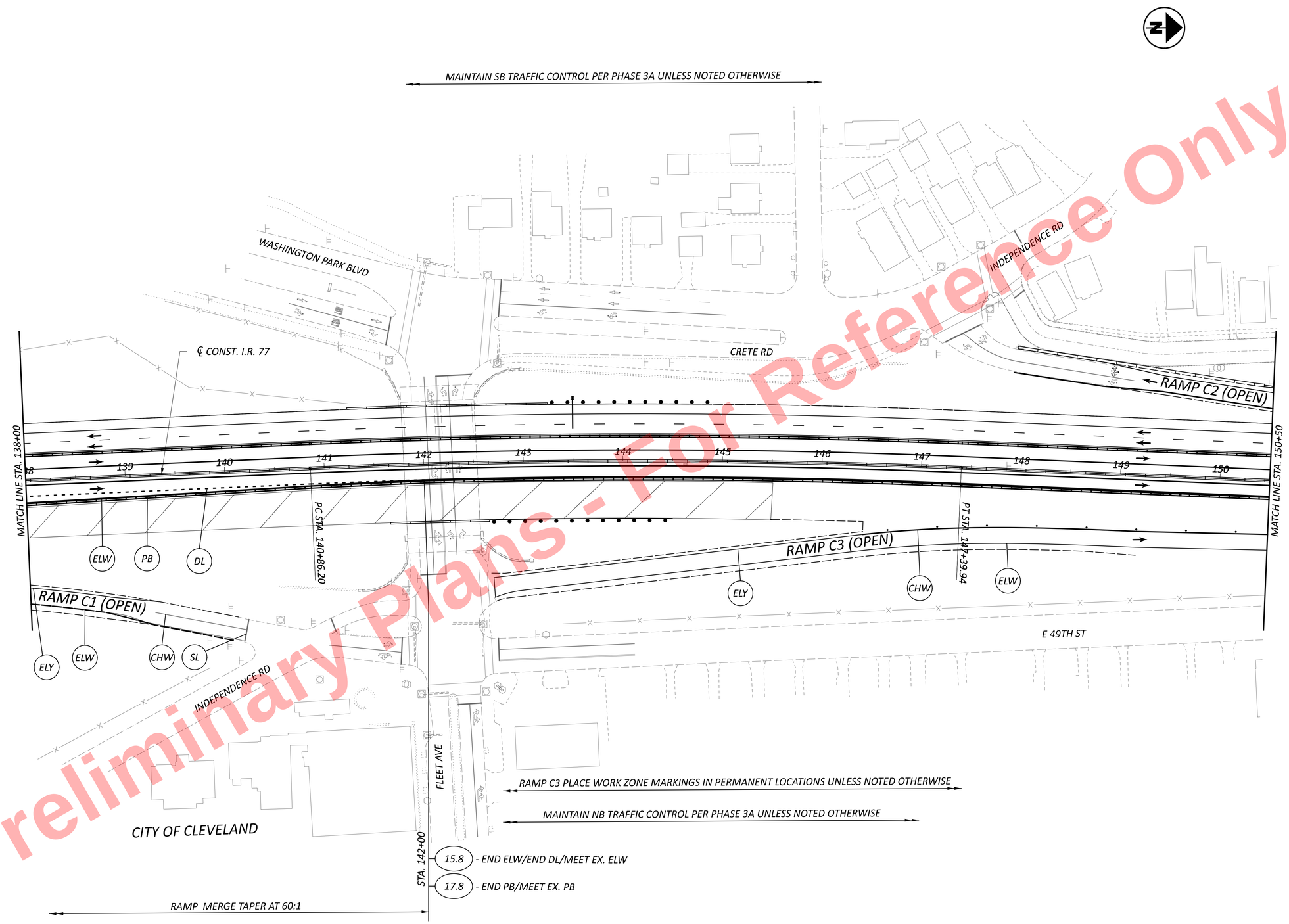

NOTE: SEE SHEET P.52 FOR MOT TYPICAL SECTION
SEE SHEET P.176 FOR MOT LEGEND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3C
STA. 138+00 TO STA. 150+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.195 TOTAL P.1269

CUY-77-11.41 - PART 1

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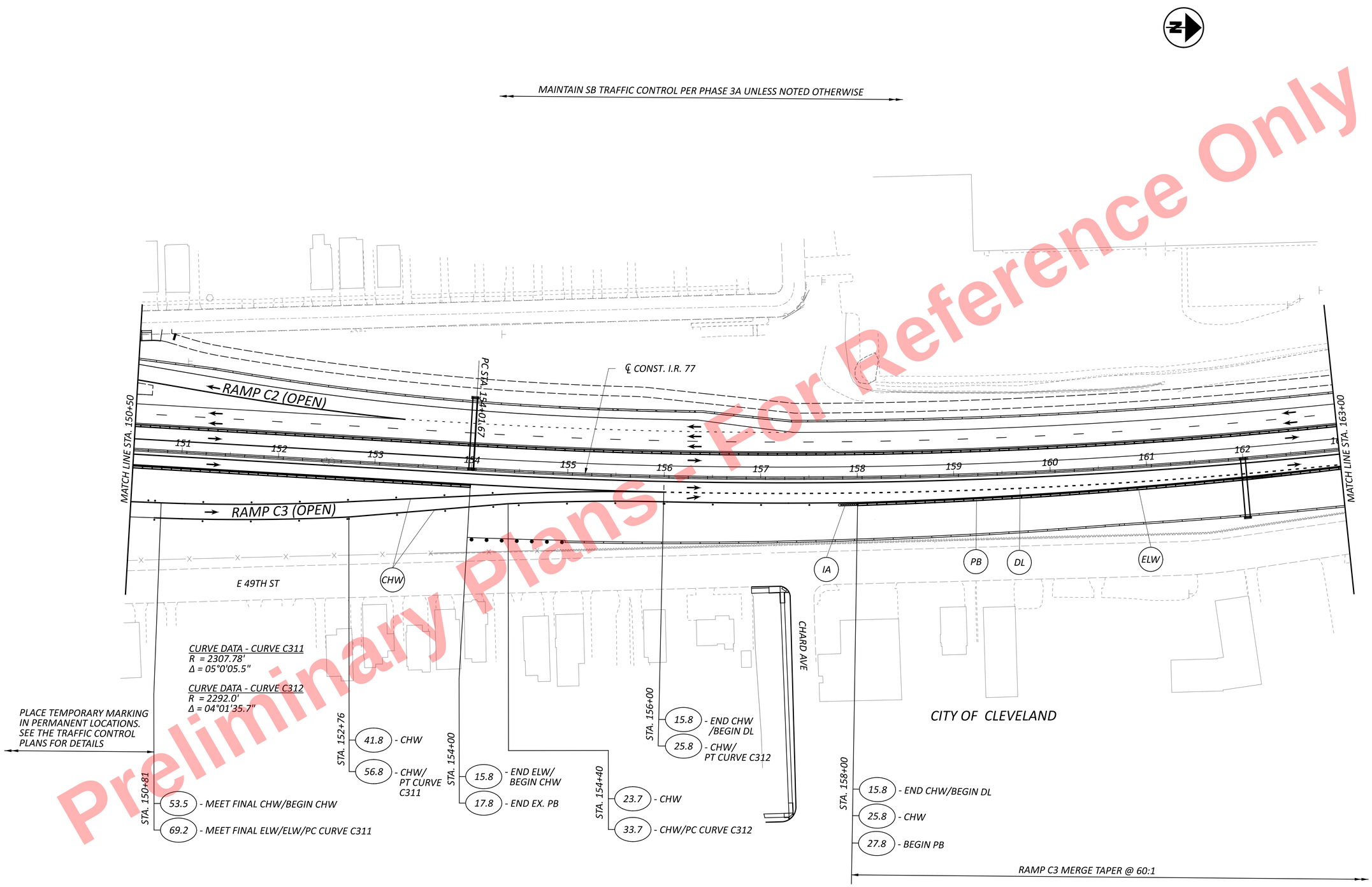
Preliminary Plans - For Reference Only



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3C
STA. 150+50 TO STA. 163+00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:26 AM USER: kperkins
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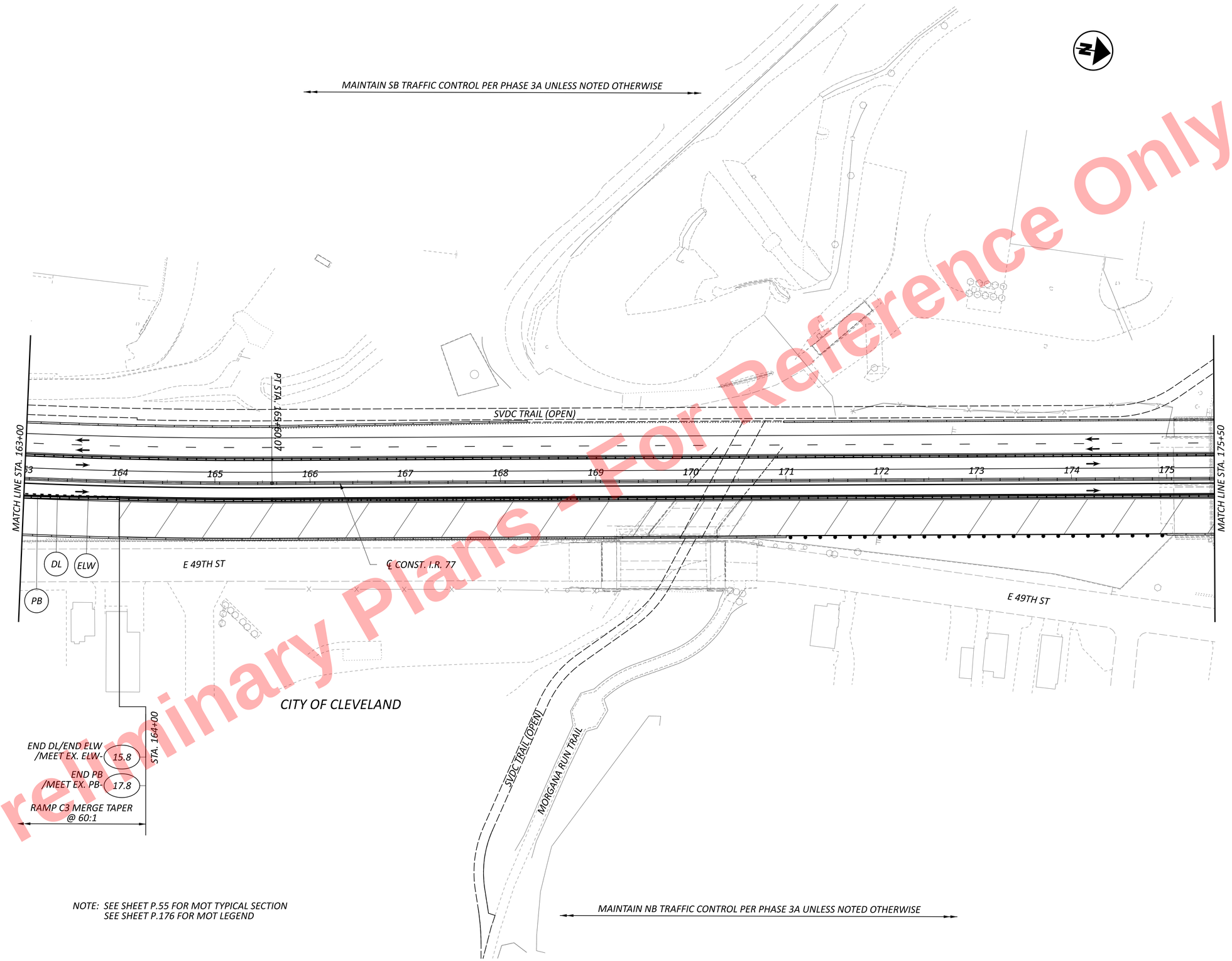
DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.196 TOTAL P.1269

Preliminary Plans - For Reference Only



NOTE: SEE SHEET P.55 FOR MOT TYPICAL SECTION
SEE SHEET P.176 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3C
STA. 163+00 TO STA. 175+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.197 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:27 AM USER: kperkins
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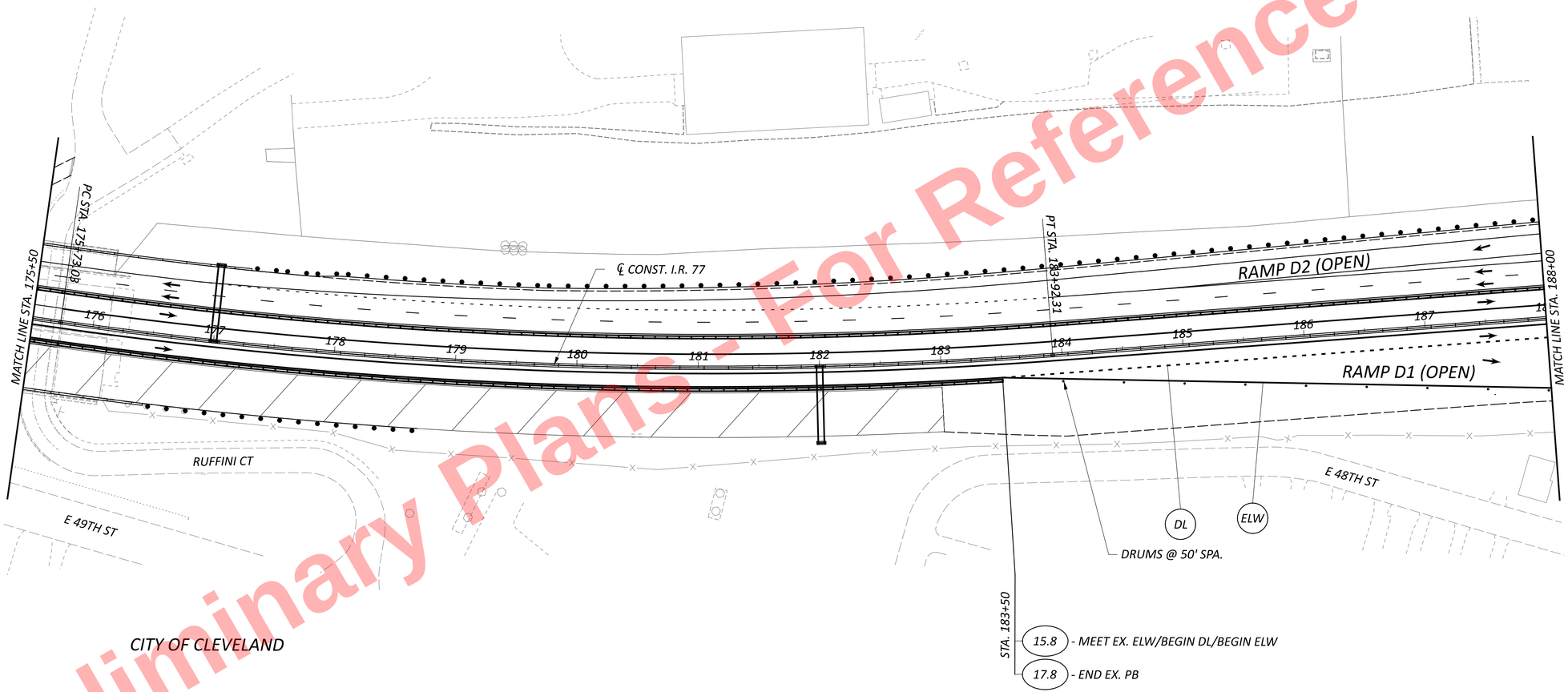
Preliminary Plans - For Reference Only

MAINTAIN SB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE



MAINTAIN NB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET P.54 FOR MOT TYPICAL SECTION
SEE SHEET P.176 FOR MOT LEGEND

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3C
STA. 175+50 TO STA. 188+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.198 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 12 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:27 AM USER: kperkins
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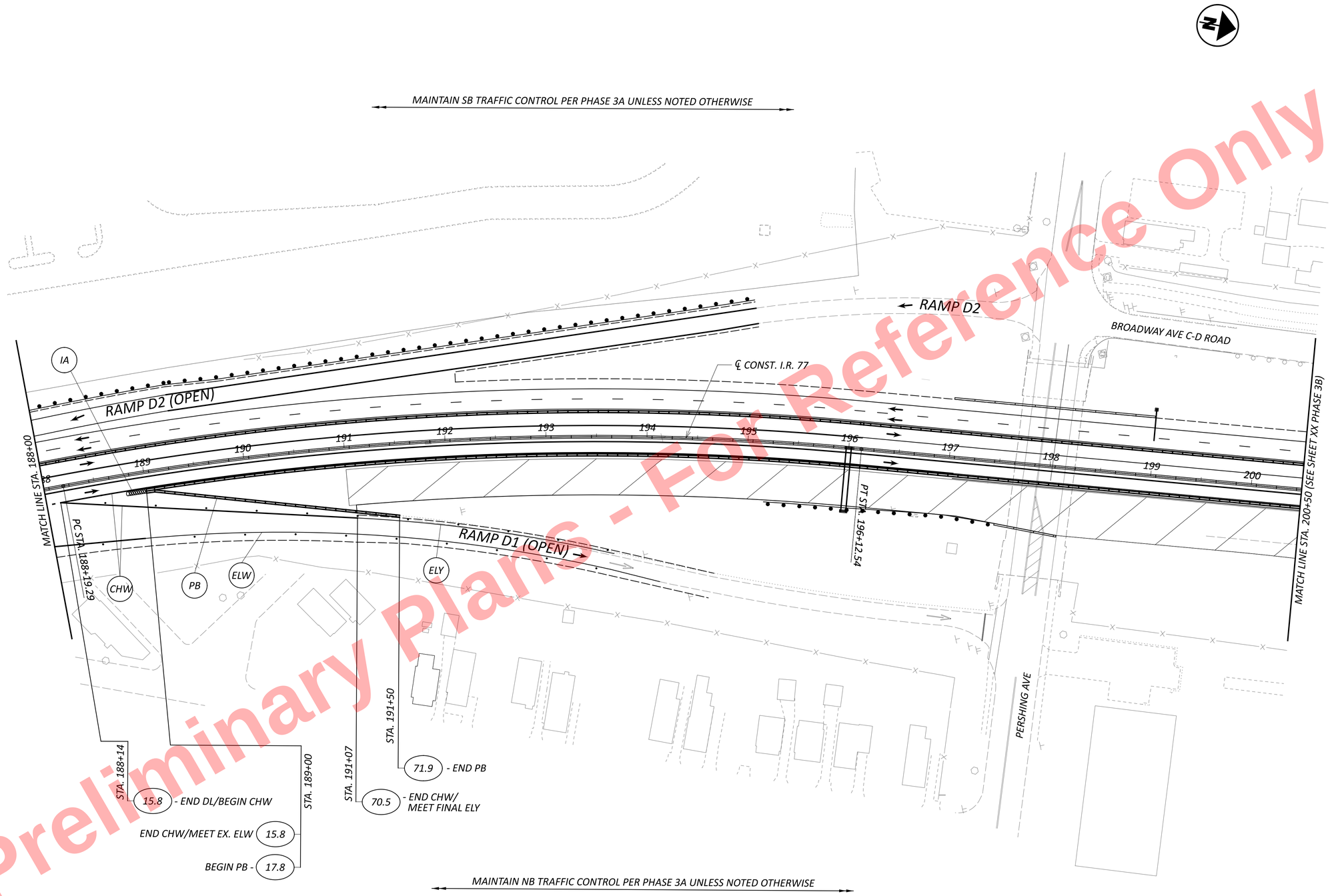
CUY-77-11.41 - PART 1



NOTE: SEE SHEET P.54 FOR MOT TYPICAL SECTION
SEE SHEET P.176 FOR MOT LEGEND

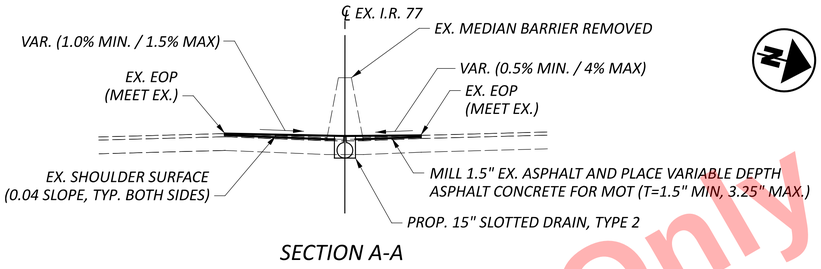
Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

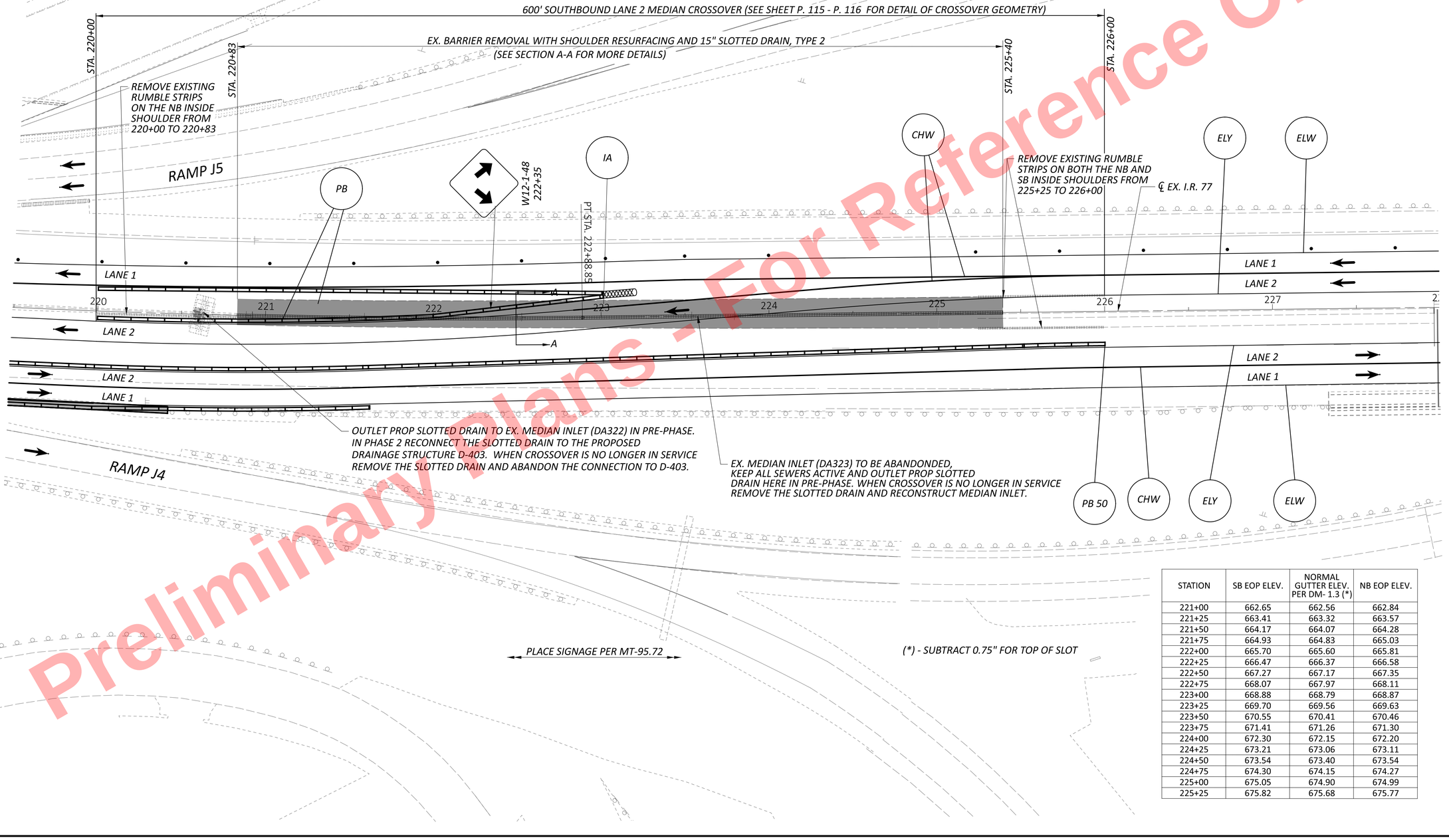
MAINTENANCE OF TRAFFIC - PHASE 3C
STA. 188+00 TO STA. 200+50

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.199 TOTAL P.1269



SECTION A-A



STATION	SB EOP ELEV.	NORMAL GUTTER ELEV. PER DM- 1.3 (*)	NB EOP ELEV.
221+00	662.65	662.56	662.84
221+25	663.41	663.32	663.57
221+50	664.17	664.07	664.28
221+75	664.93	664.83	665.03
222+00	665.70	665.60	665.81
222+25	666.47	666.37	666.58
222+50	667.27	667.17	667.35
222+75	668.07	667.97	668.11
223+00	668.88	668.79	668.87
223+25	669.70	669.56	669.63
223+50	670.55	670.41	670.46
223+75	671.41	671.26	671.30
224+00	672.30	672.15	672.20
224+25	673.21	673.06	673.11
224+50	673.54	673.40	673.54
224+75	674.30	674.15	674.27
225+00	675.05	674.90	674.99
225+25	675.82	675.68	675.77

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 15 30 60

MAINTENANCE OF TRAFFIC CROSSOVER DETAIL NORTH PROJECT LIMIT (PHASE 1A SHOWN)

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.200 TOTAL P.1269

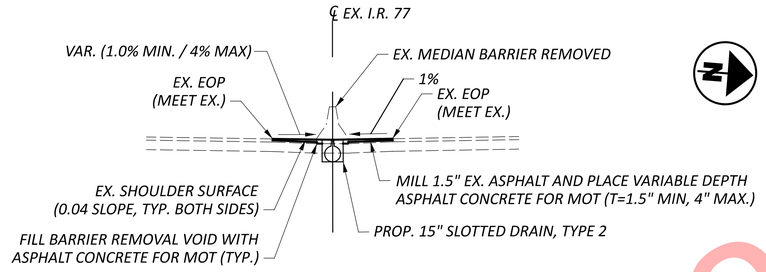
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:36 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MM001.dgn

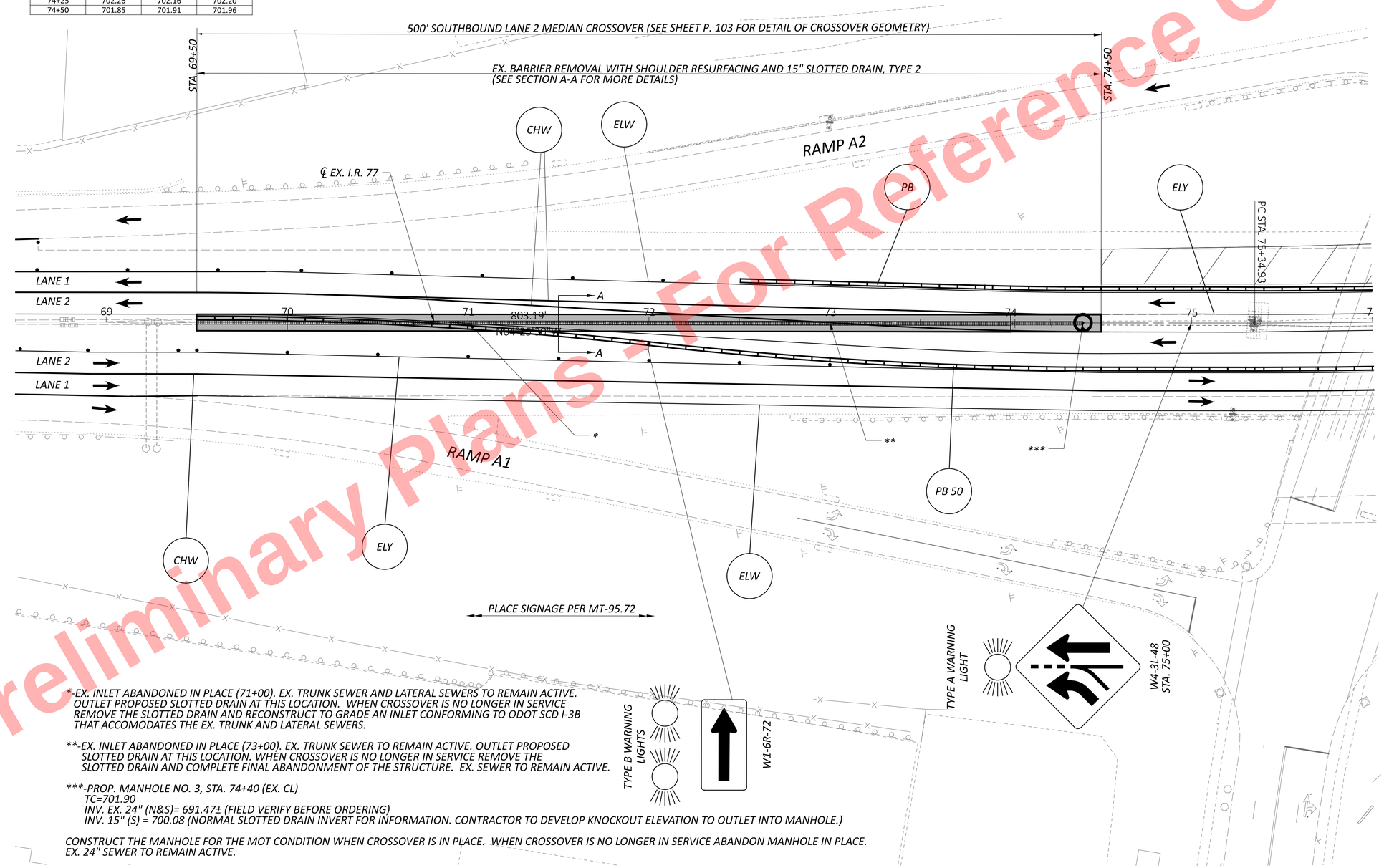
STATION	SB EOP ELEV.	NORMAL GUTTER ELEV. PER DM-1.3 (*)	NB EOP ELEV.
69+50	707.52	707.48	707.53
69+75	707.27	707.22	707.26
70+00	706.94	706.90	706.98
70+25	706.69	706.64	706.69
70+50	706.41	706.37	706.43
70+75	706.15	706.08	706.12
71+00	705.81	705.76	705.81
71+25	705.65	705.50	705.55
71+50	705.38	705.22	705.26
71+75	705.11	704.92	704.97
72+00	704.78	704.66	704.71
72+25	704.54	704.41	704.46
72+50	704.28	704.13	704.18
72+75	704.05	703.86	703.90
73+00	703.70	703.53	703.57
73+25	703.48	703.30	703.35
73+50	703.21	703.04	703.09
73+75	702.93	702.79	702.83
74+00	702.61	702.48	702.53
74+25	702.26	702.16	702.20
74+50	701.85	701.91	701.96

(*) - SUBTRACT 0.75" FOR TOP OF SLOT

SEE SHEET XX FOR PHASE 1A MOT DETAILS
SEE SHEET XX FOR MOT LEGEND



SECTION A-A



*-EX. INLET ABANDONED IN PLACE (71+00). EX. TRUNK SEWER AND LATERAL SEWERS TO REMAIN ACTIVE. OUTLET PROPOSED SLOTTED DRAIN AT THIS LOCATION. WHEN CROSSOVER IS NO LONGER IN SERVICE REMOVE THE SLOTTED DRAIN AND RECONSTRUCT TO GRADE AN INLET CONFORMING TO ODOT SCD I-3B THAT ACCOMODATES THE EX. TRUNK AND LATERAL SEWERS.

**-EX. INLET ABANDONED IN PLACE (73+00). EX. TRUNK SEWER TO REMAIN ACTIVE. OUTLET PROPOSED SLOTTED DRAIN AT THIS LOCATION. WHEN CROSSOVER IS NO LONGER IN SERVICE REMOVE THE SLOTTED DRAIN AND COMPLETE FINAL ABANDONMENT OF THE STRUCTURE. EX. SEWER TO REMAIN ACTIVE.

***-PROP. MANHOLE NO. 3, STA. 74+40 (EX. CL)
TC=701.90
INV. EX. 24" (N&S)= 691.47± (FIELD VERIFY BEFORE ORDERING)
INV. 15" (S) = 700.08 (NORMAL SLOTTED DRAIN INVERT FOR INFORMATION. CONTRACTOR TO DEVELOP KNOCKOUT ELEVATION TO OUTLET INTO MANHOLE.)

CONSTRUCT THE MANHOLE FOR THE MOT CONDITION WHEN CROSSOVER IS IN PLACE. WHEN CROSSOVER IS NO LONGER IN SERVICE ABANDON MANHOLE IN PLACE. EX. 24" SEWER TO REMAIN ACTIVE.

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 15 30 60

MAINTENANCE OF TRAFFIC CROSSOVER DETAIL SOUTH PROJECT LIMIT (PHASE 1A SHOWN)

DESIGN AGENCY
HNTB

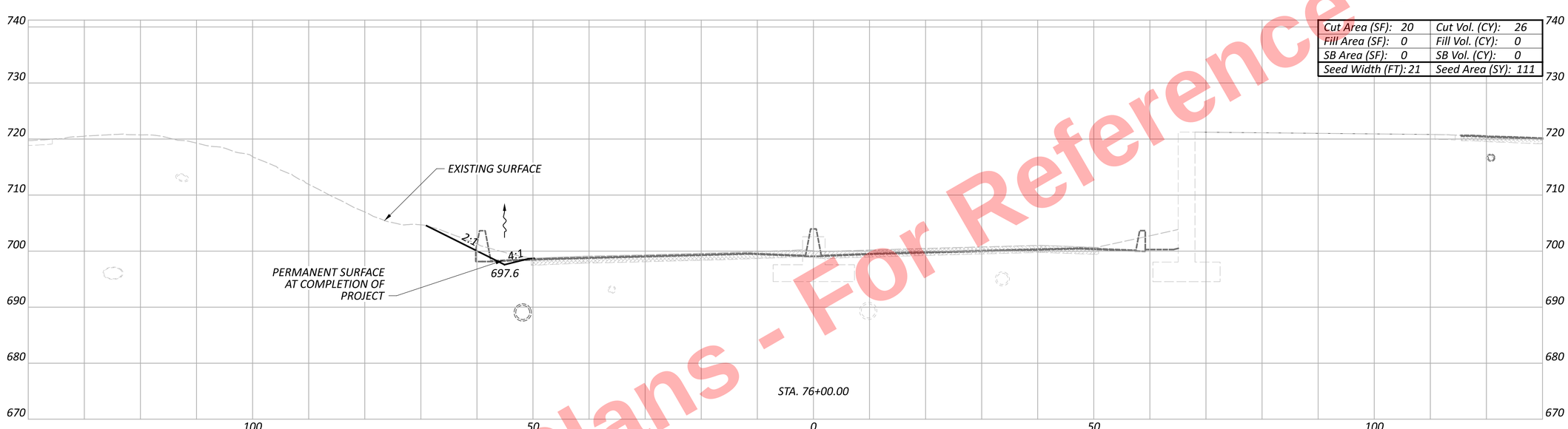
DESIGNER MTD
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.201 TOTAL P.1269

CUY-77-11.41 - PART 1

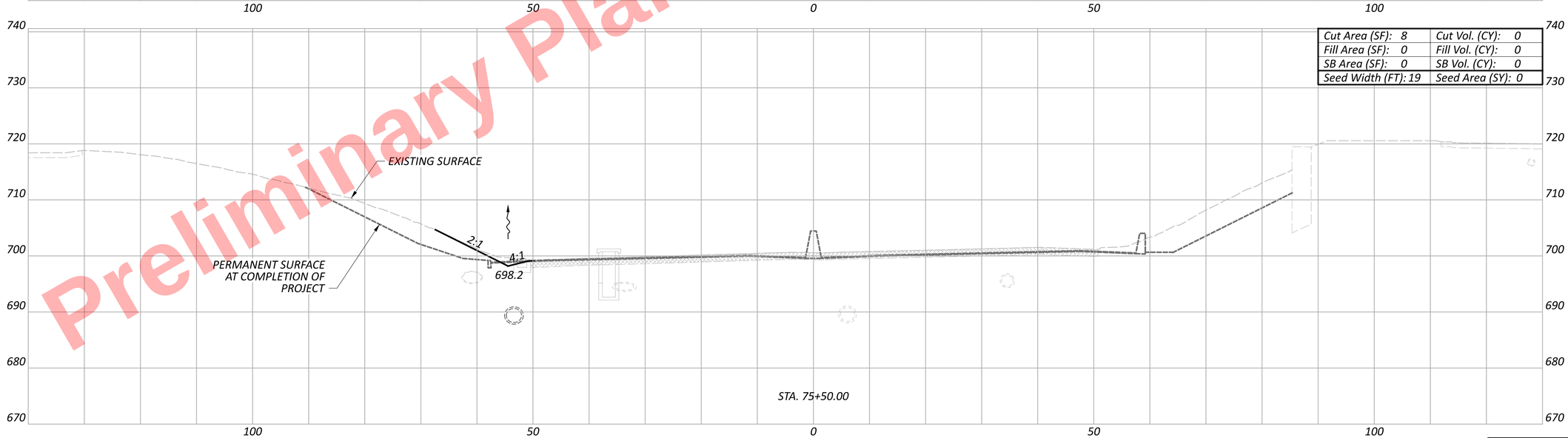
MODEL: CLP_I78 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:38 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\v400-Engineering\MOT\Sheets\105743_MM001.dgn

Preliminary Plans - For Reference Only

Cut Area (SF):	20	Cut Vol. (CY):	26
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	21	Seed Area (SY):	111



Cut Area (SF):	8	Cut Vol. (CY):	0
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	19	Seed Area (SY):	0



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
111	26	0	0

MOT CROSS SECTIONS - I.R. 77
STA. 75+50.0 TO STA. 76+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.202 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 75+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:40:11 AM USER: kperkins
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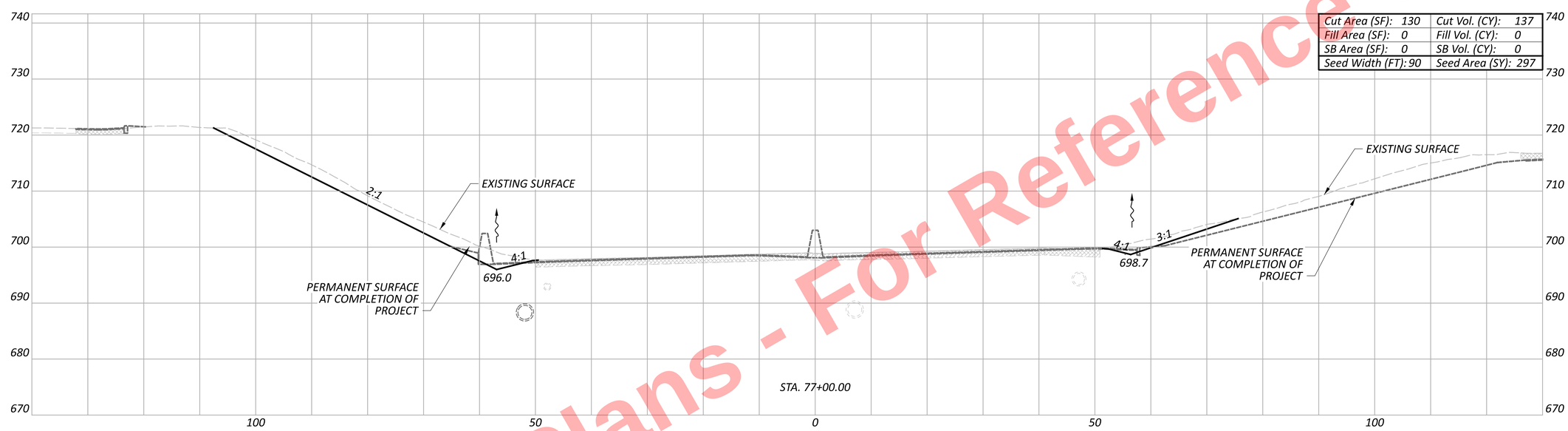
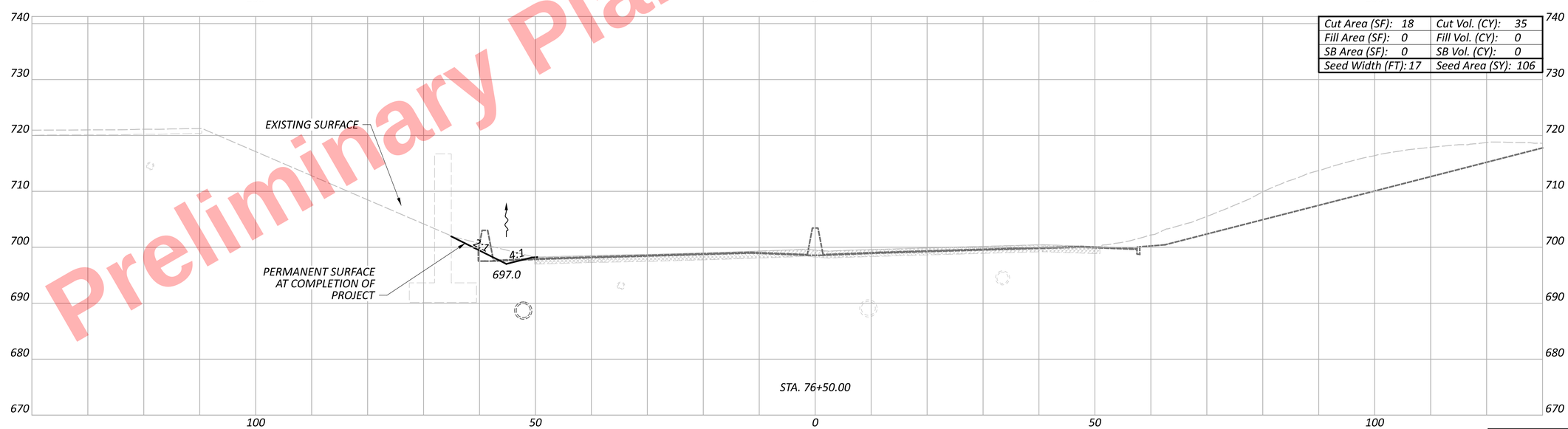


Cut Area (SF): 130	Cut Vol. (CY): 137
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 90	Seed Area (SY): 297



Cut Area (SF): 18	Cut Vol. (CY): 35
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 17	Seed Area (SY): 106

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
403	172	0	0

Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 76+50.00 TO STA. 77+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

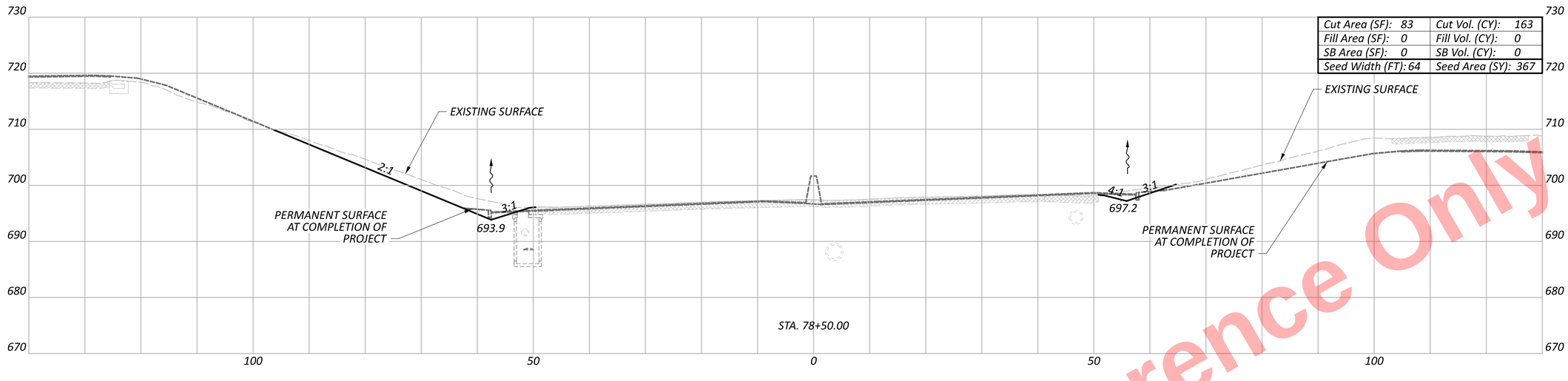
REVIEWER
MTR 10/24/25

PROJECT ID
105743

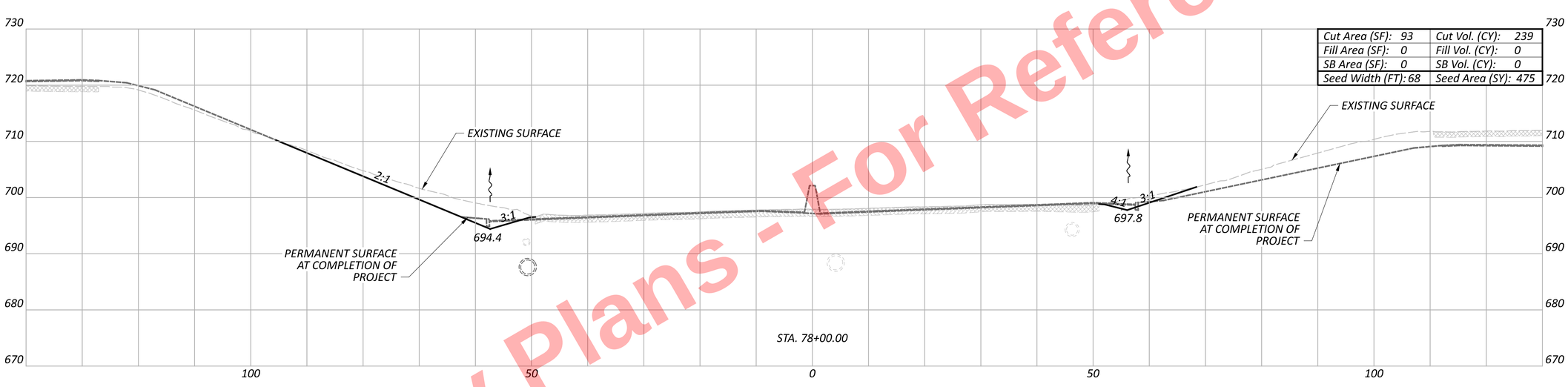
SHEET P.203 TOTAL P.1269

CUY-77-11.41 - PART 1

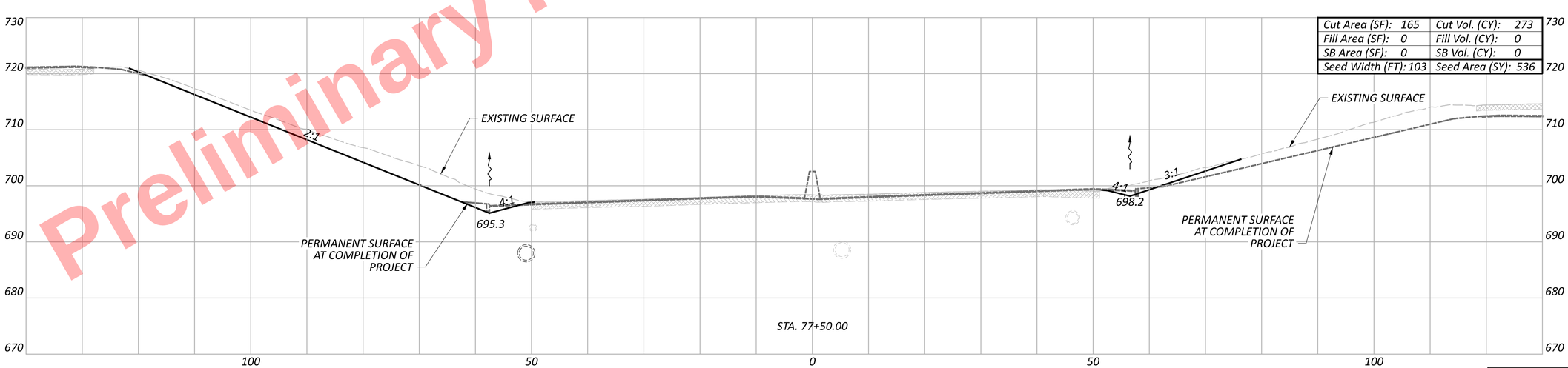
MODEL: TempGrading - 76+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:40:20 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn



Cut Area (SF):	83	Cut Vol. (CY):	163
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	64	Seed Area (SY):	367



Cut Area (SF):	93	Cut Vol. (CY):	239
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	68	Seed Area (SY):	475



Cut Area (SF):	165	Cut Vol. (CY):	273
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	103	Seed Area (SY):	536

Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 77+50.00 TO STA. 78+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1378	675	0	0

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.204 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 77+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:40:25 AM USER: kperkins
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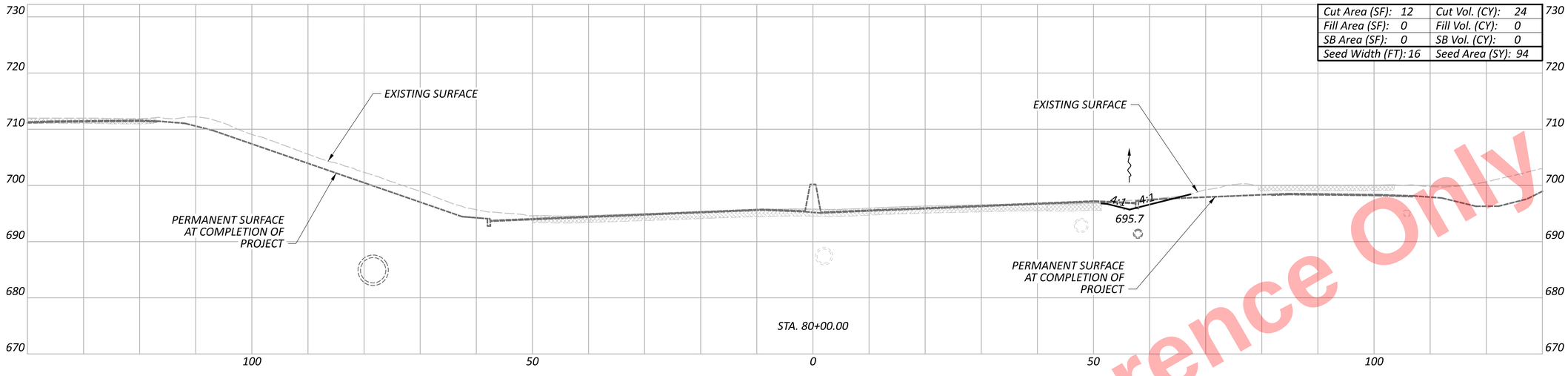
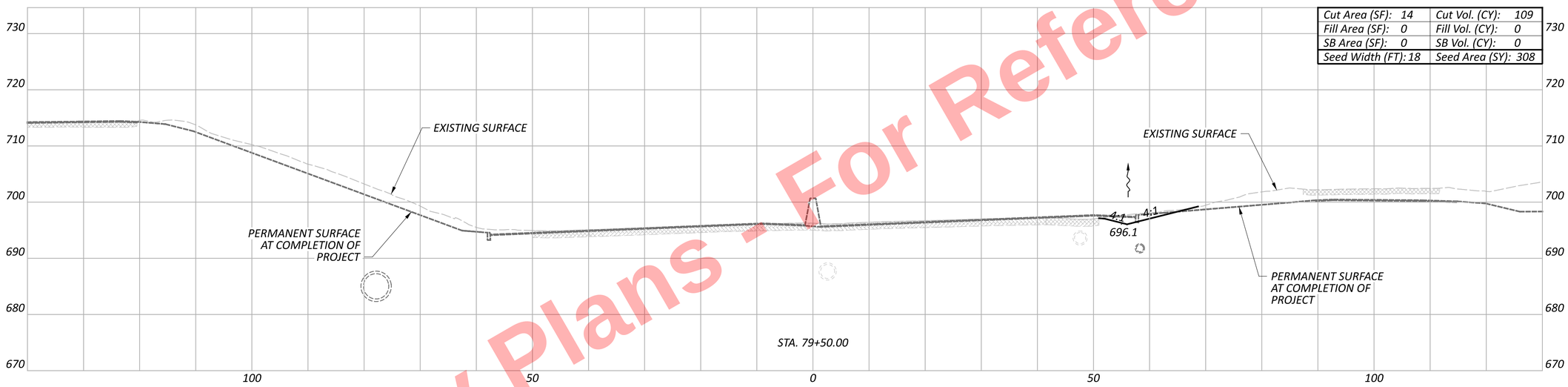
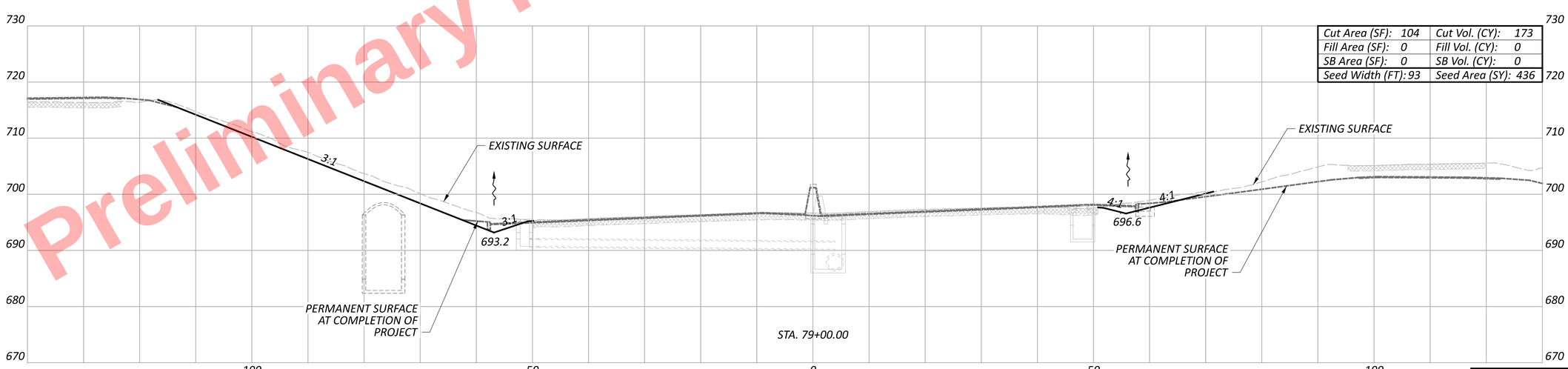


Cut Area (SF): 12	Cut Vol. (CY): 24
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 16	Seed Area (SY): 94



Cut Area (SF): 14	Cut Vol. (CY): 109
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 18	Seed Area (SY): 308



Cut Area (SF): 104	Cut Vol. (CY): 173
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 93	Seed Area (SY): 436

Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 78+50.00 TO STA. 79+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
838	306	0	0

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

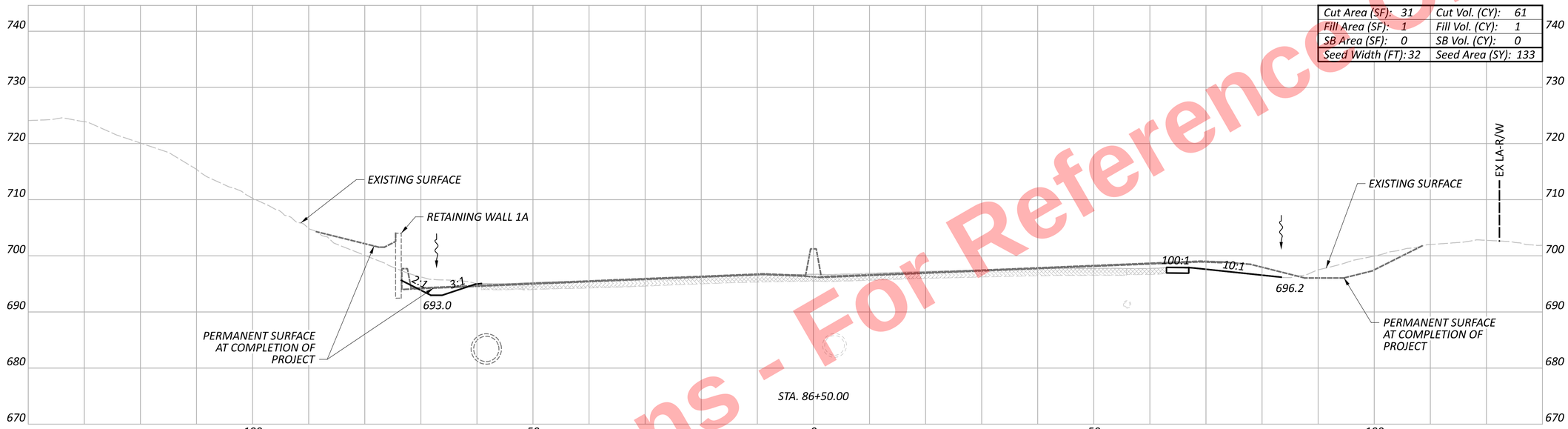
SHEET P.205 | TOTAL P.1269

CUY-77-11.41 - PART 1

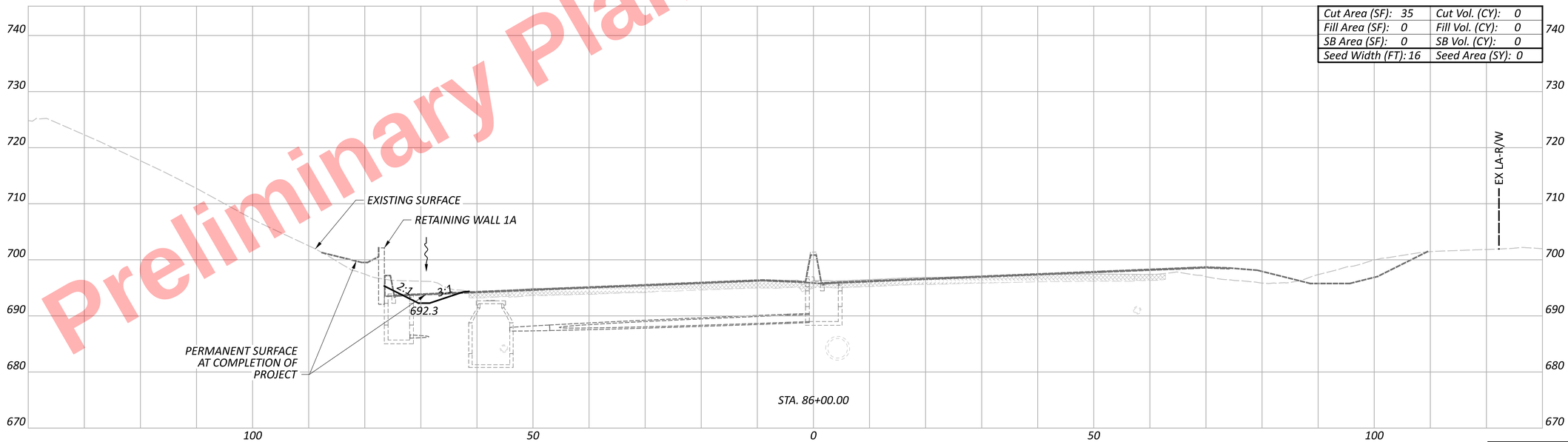
MODEL: TempGrading - 78+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:40:33 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only

Cut Area (SF):	31	Cut Vol. (CY):	61
Fill Area (SF):	1	Fill Vol. (CY):	1
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	32	Seed Area (SY):	133



Cut Area (SF):	35	Cut Vol. (CY):	0
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	16	Seed Area (SY):	0



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
133	61	1	0

MOT CROSS SECTIONS - I.R. 77
STA. 86+00.00 TO STA. 86+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

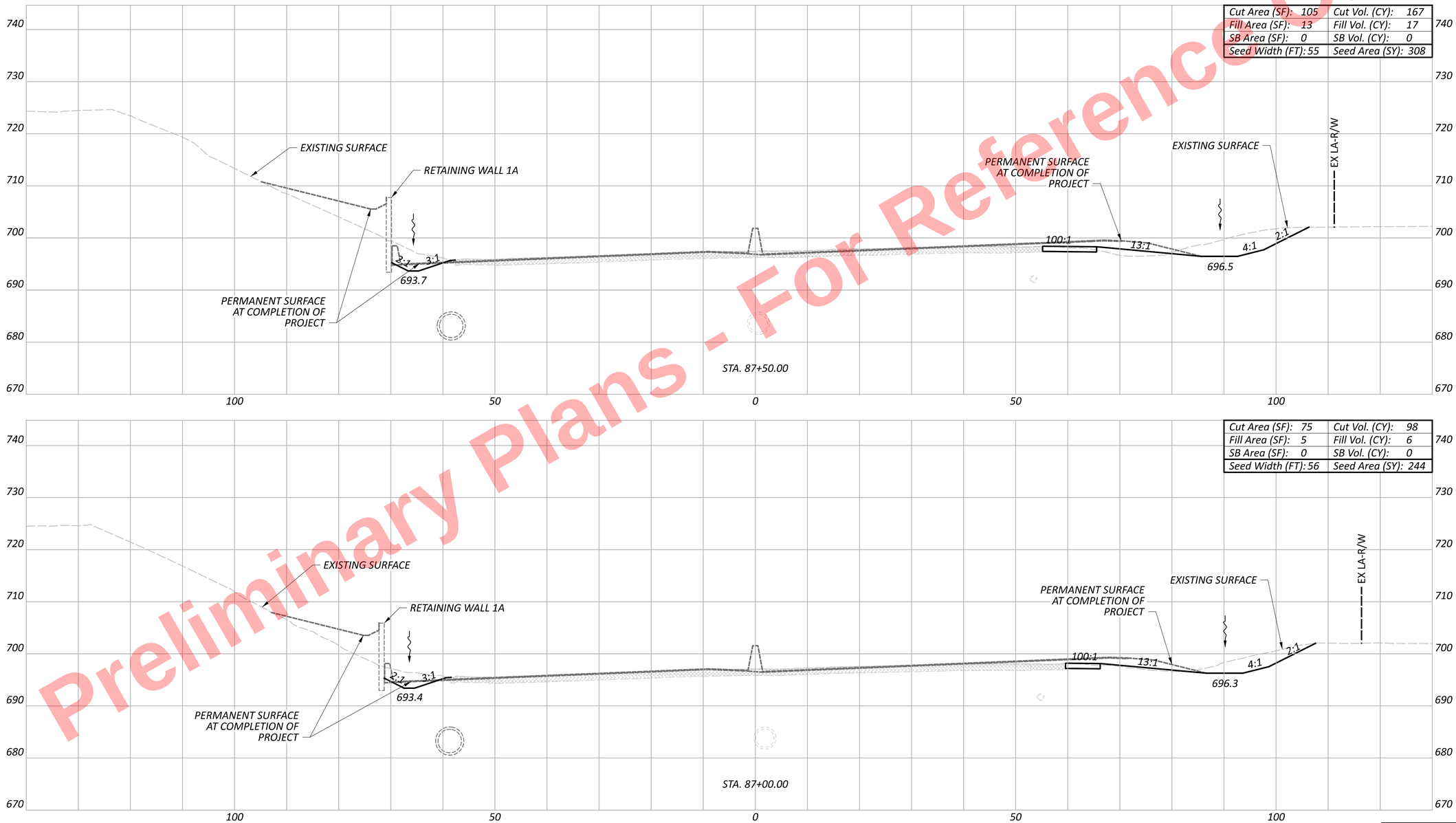
PROJECT ID
105743

SHEET P.206 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 86+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:40:38 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

MOT CROSS SECTIONS - I.R. 77
STA. 87+00.00 TO STA. 87+50.00



Cut Area (SF):	105	Cut Vol. (CY):	167
Fill Area (SF):	13	Fill Vol. (CY):	17
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	55	Seed Area (SY):	308

Cut Area (SF):	75	Cut Vol. (CY):	98
Fill Area (SF):	5	Fill Vol. (CY):	6
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	56	Seed Area (SY):	244

Preliminary Plans - For Reference Only

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
552	265	23	0

DESIGN AGENCY: HNTB

DESIGNER: AS

REVIEWER: MTR 10/24/25

PROJECT ID: 105743

SHEET: P.207 TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 87+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:40:42 AM USER: kperkins
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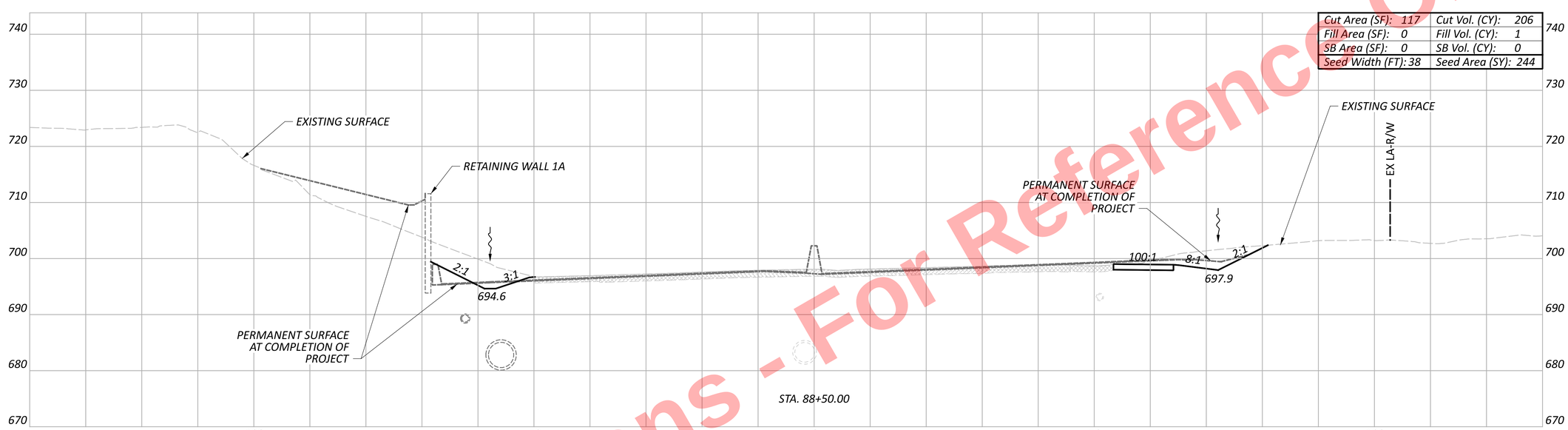
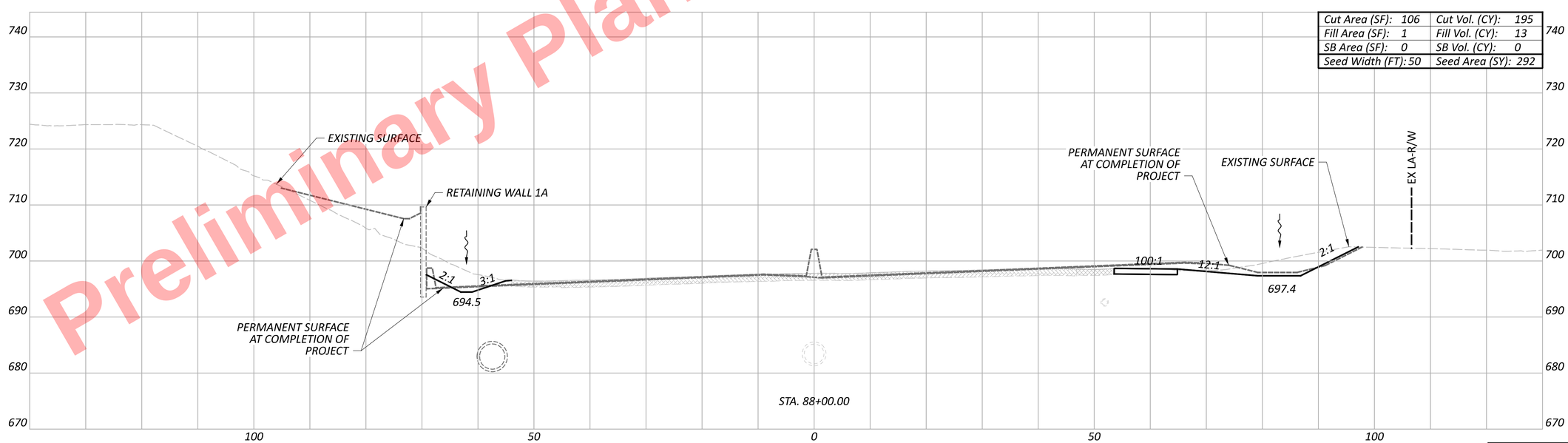
Preliminary Plans - For Reference Only

Cut Area (SF):	117	Cut Vol. (CY):	206
Fill Area (SF):	0	Fill Vol. (CY):	1
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	38	Seed Area (SY):	244



Cut Area (SF):	106	Cut Vol. (CY):	195
Fill Area (SF):	1	Fill Vol. (CY):	13
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	50	Seed Area (SY):	292



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
536	401	14	0

MOT CROSS SECTIONS - I.R. 77
STA. 88+00.00 TO STA. 88+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

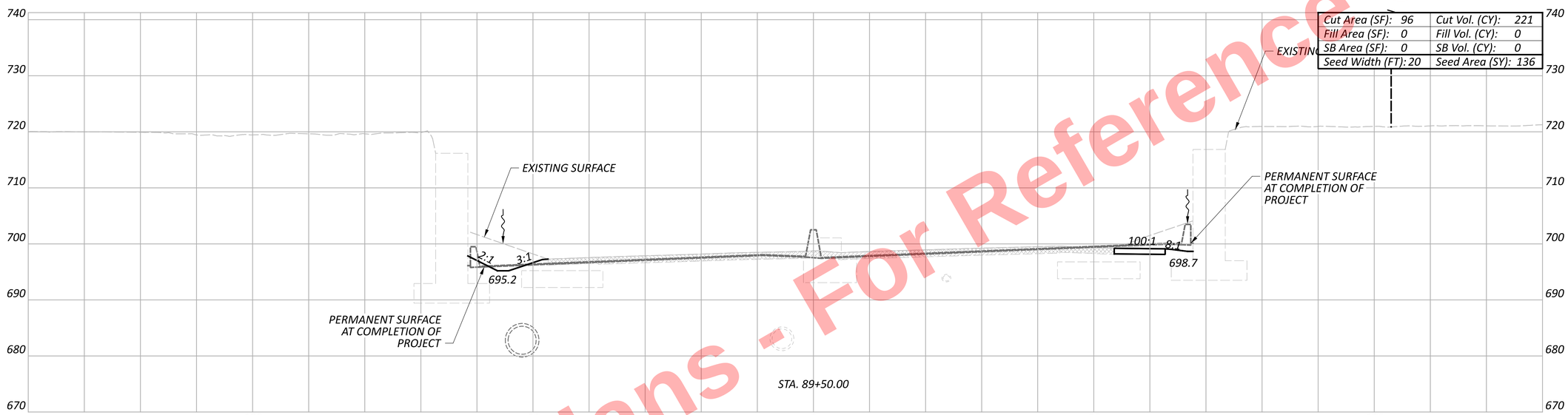
SHEET P.208 TOTAL P.1269

CUY-77-11.41 - PART 1

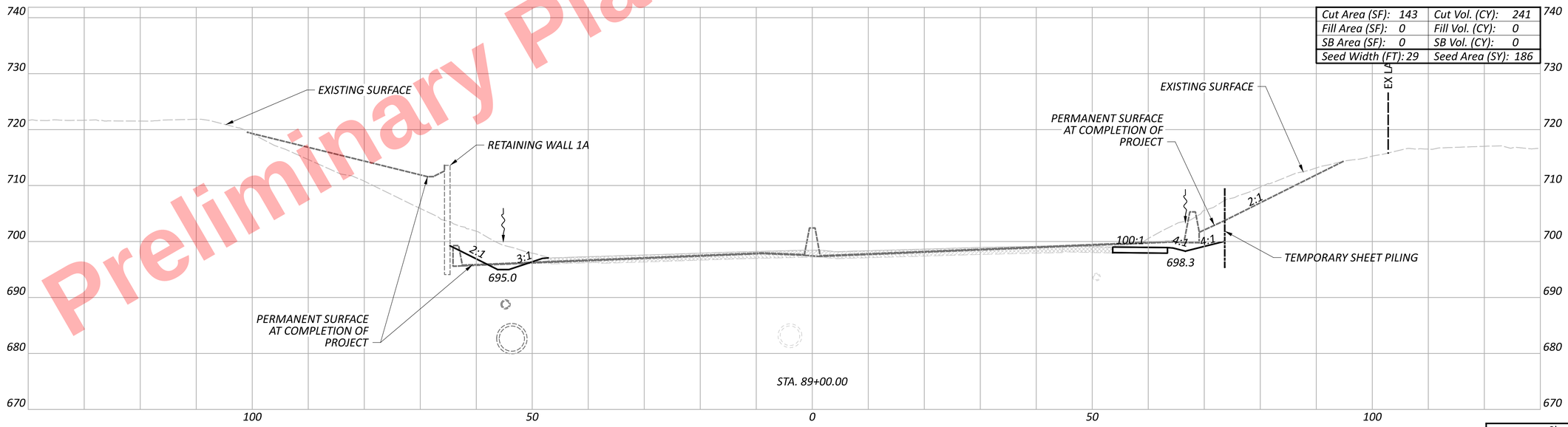
MODEL: TempGrading - 88+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:40:46 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only

Cut Area (SF):	96	Cut Vol. (CY):	221
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	20	Seed Area (SY):	136



Cut Area (SF):	143	Cut Vol. (CY):	241
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	29	Seed Area (SY):	186



MOT CROSS SECTIONS - I.R. 77
STA. 89+00.00 TO STA. 89+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
322	462	0	0

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

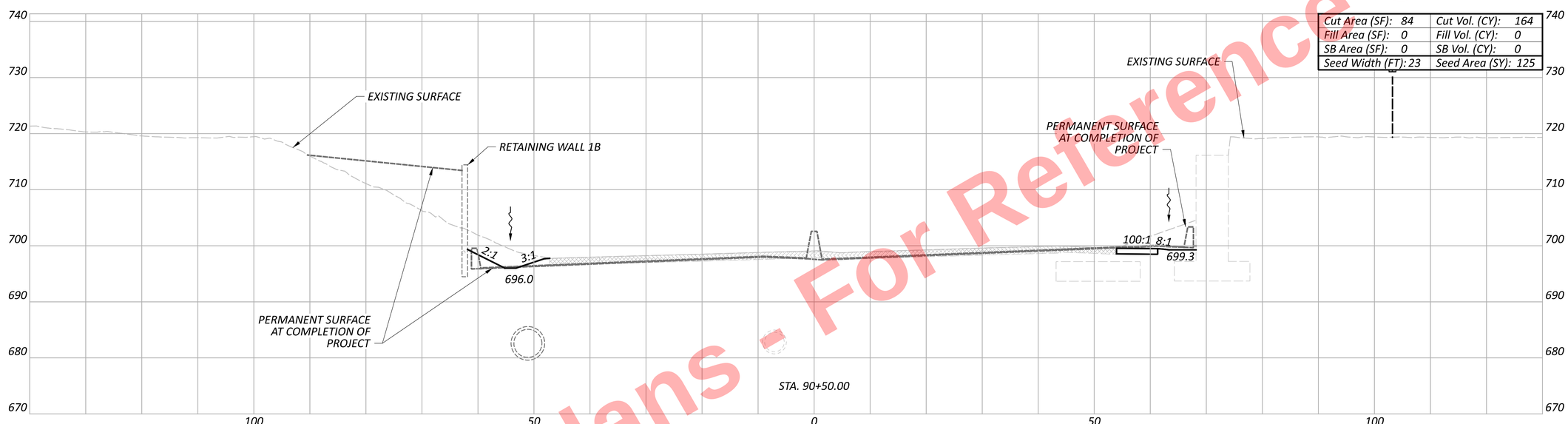
PROJECT ID
105743

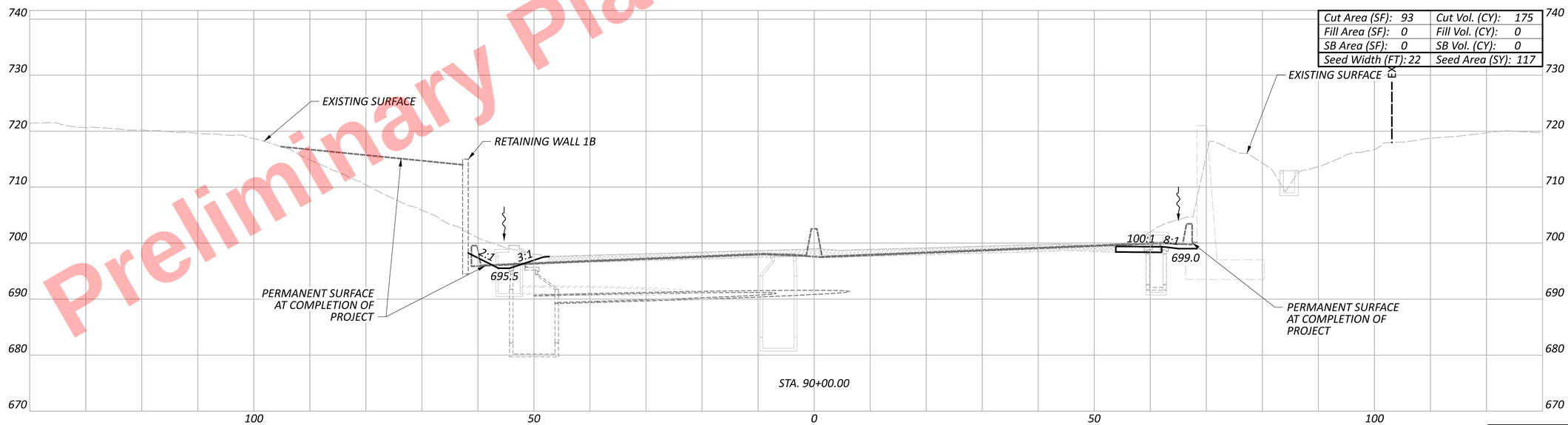
SHEET P.209 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 89+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:40:49 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only





CUY-77-11.41 - PART 1

MODEL: TempGrading - 90+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:40:53 AM USER: kperkins
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MOT CROSS SECTIONS - I.R. 77
STA. 90+00.00 TO STA. 90+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
242	339	0	0

DESIGN AGENCY
HNTB

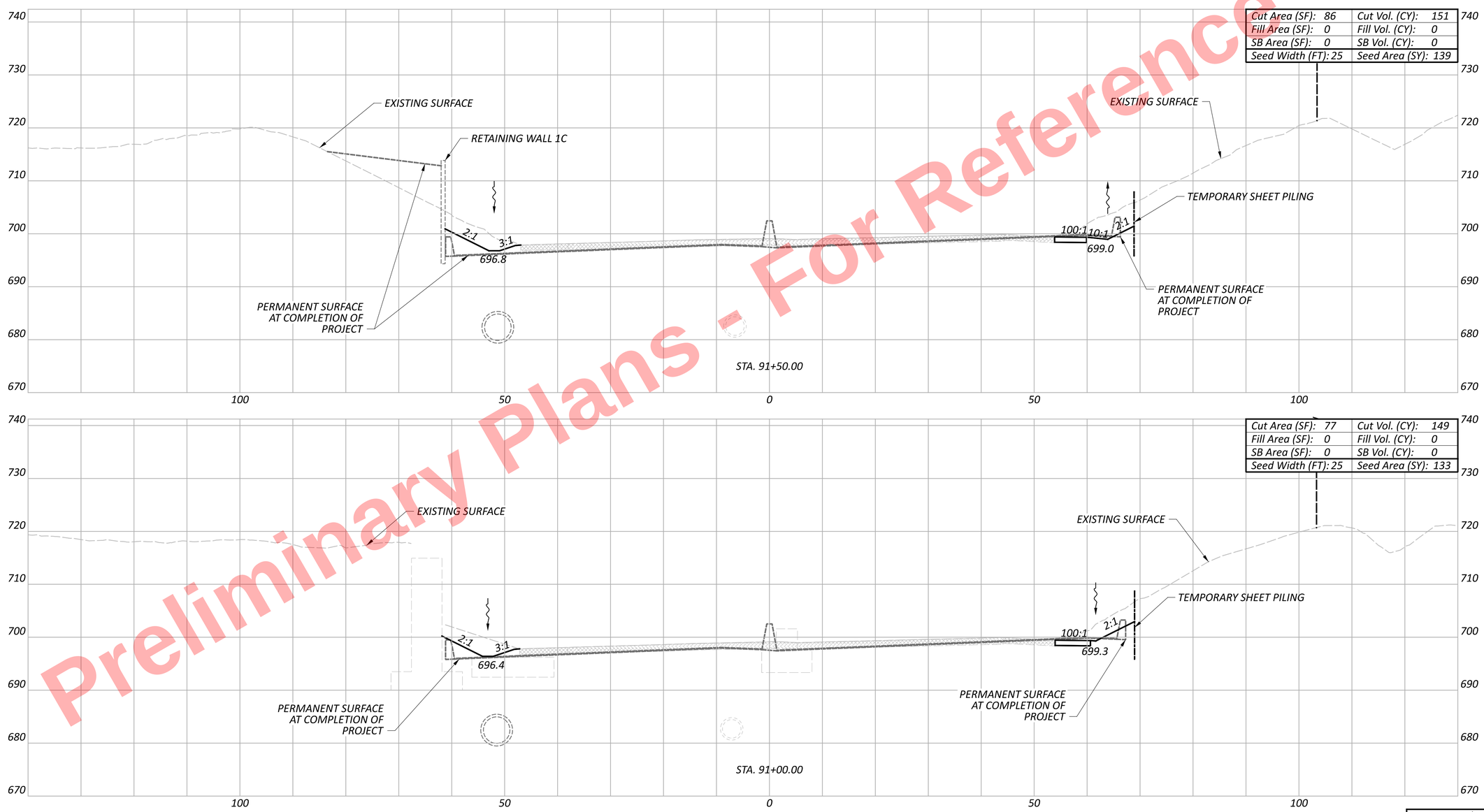
DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.210 TOTAL P.1269

Preliminary Plans - For Reference Only



MOT CROSS SECTIONS - I.R. 77
STA. 91+00.00 TO STA. 91+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
272	300	0	0

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

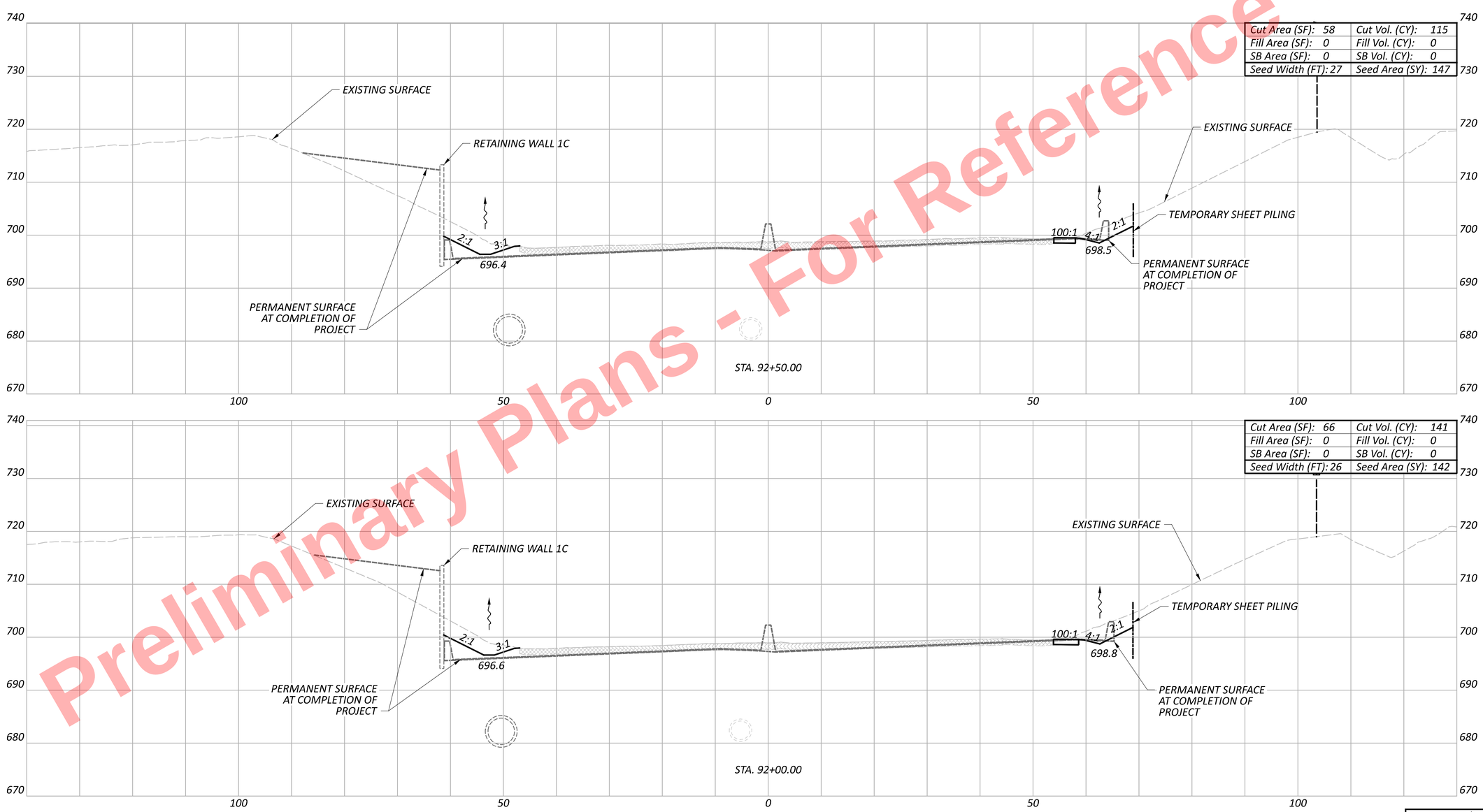
PROJECT ID
105743

SHEET P.211 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 91+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:40:57 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only



MOT CROSS SECTIONS - I.R. 77
STA. 92+00.00 TO STA. 92+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
289	256	0	0

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

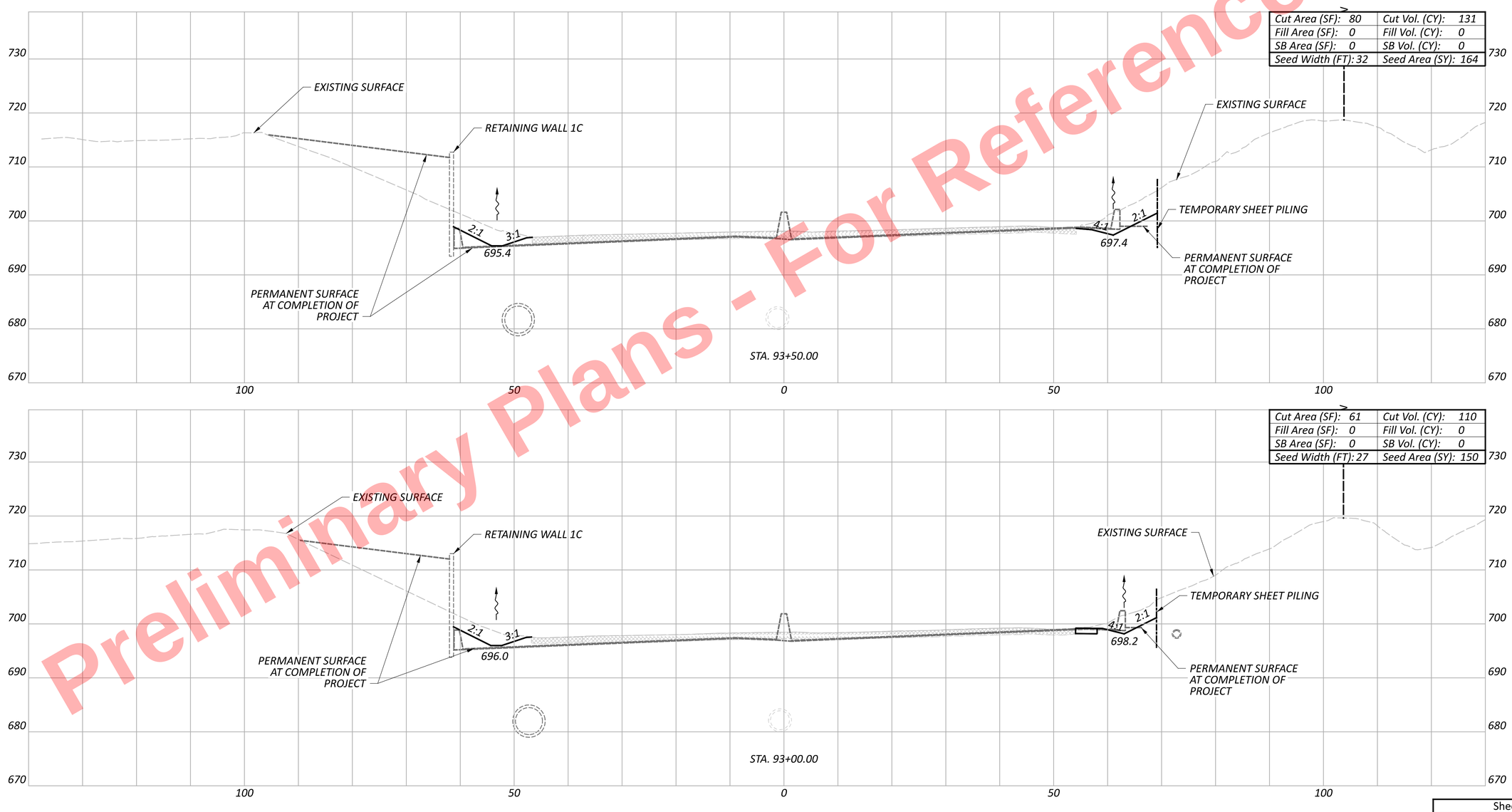
PROJECT ID
105743

SHEET P.212 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 92+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:41:01 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only



MOT CROSS SECTIONS - I.R. 77
STA. 93+00.00 TO STA. 93+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.213 TOTAL P.1269

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
314	241	0	0

CUY-77-11.41 - PART 1

MODEL: TempGrading - 93+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:41:04 AM USER: kperkins
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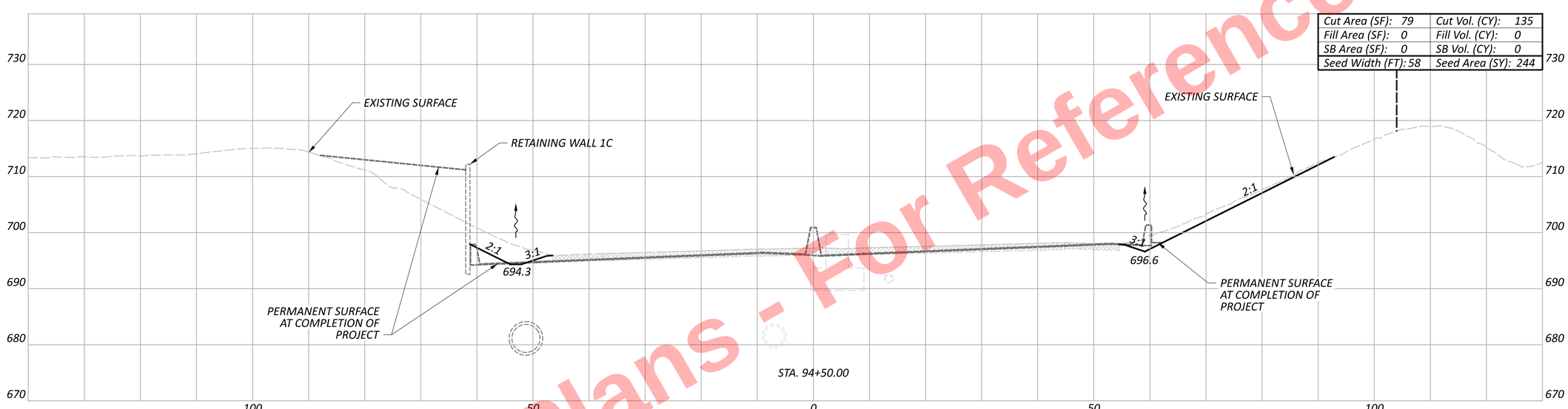
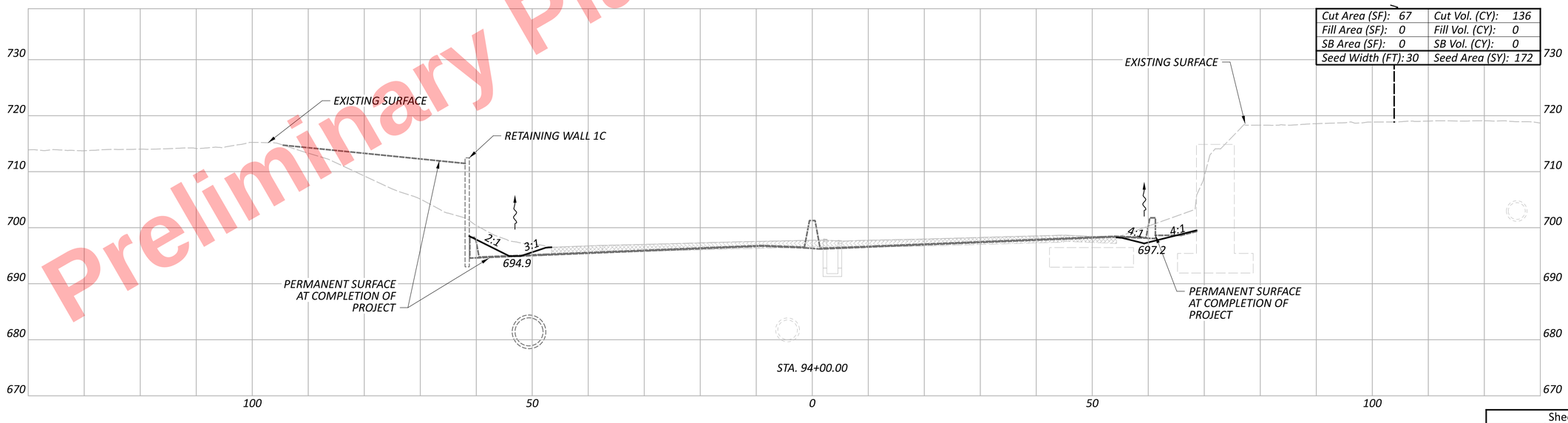
Preliminary Plans - Not For Reference Only

Cut Area (SF):	79	Cut Vol. (CY):	135
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	58	Seed Area (SY):	244



Cut Area (SF):	67	Cut Vol. (CY):	136
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	30	Seed Area (SY):	172



MOT CROSS SECTIONS - I.R. 77
STA. 94+00.00 TO STA. 94+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
416	271	0	0

SHEET	TOTAL
P.214	P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 94+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:41:08 AM USER: kperkins
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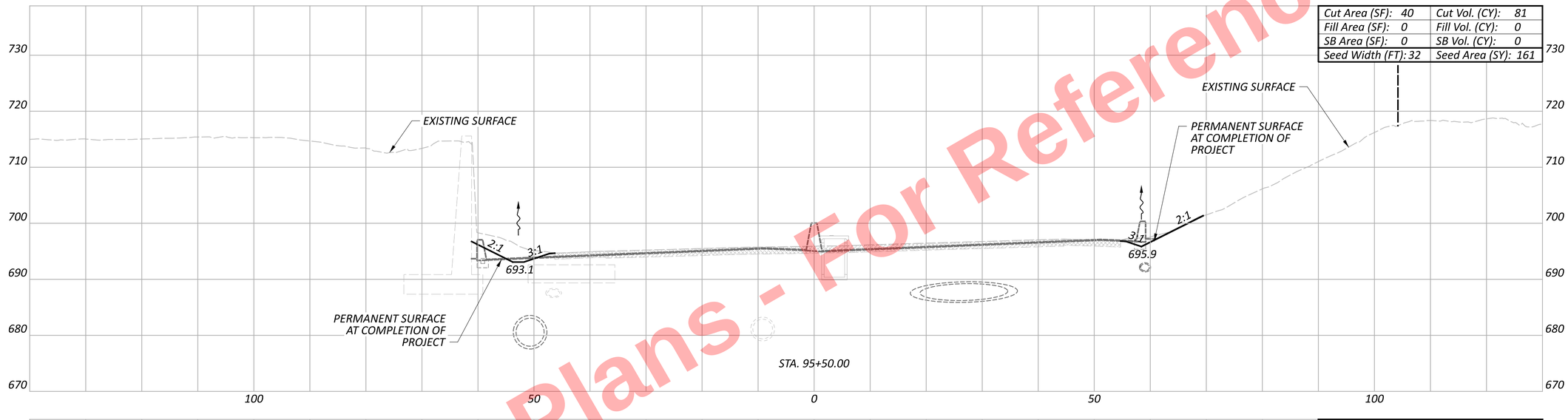
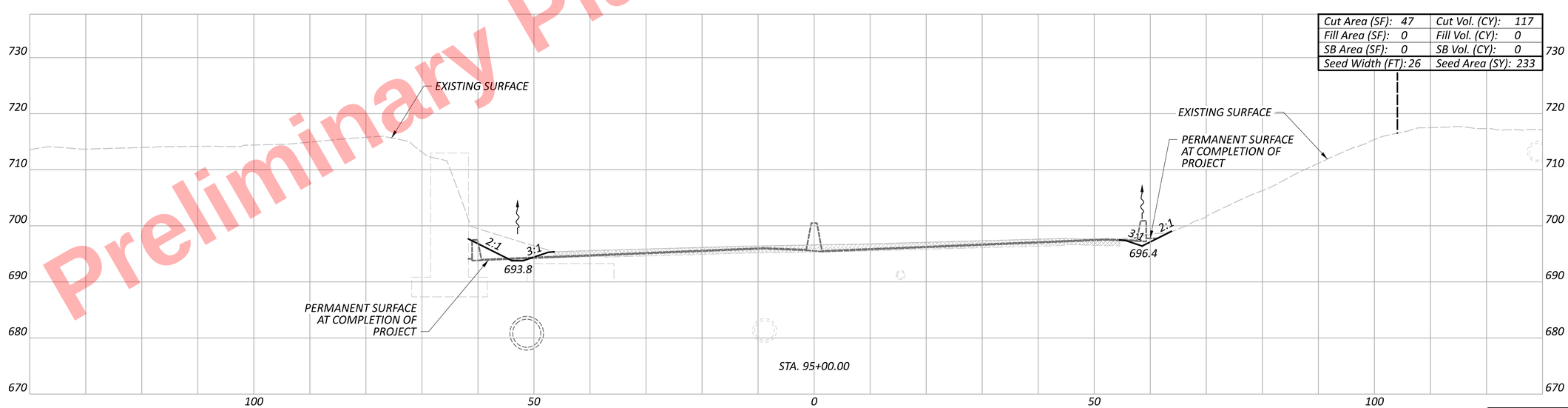
Preliminary Plans - For Reference Only

Cut Area (SF): 40	Cut Vol. (CY): 81
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 32	Seed Area (SY): 161



Cut Area (SF): 47	Cut Vol. (CY): 117
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 26	Seed Area (SY): 233



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
394	198	0	0

MOT CROSS SECTIONS - I.R. 77
STA. 95+00.00 TO STA. 95+50.00

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER MTR 10/24/25
PROJECT ID 105743
SHEET P.215 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 95+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:41:12 AM USER: kperkins
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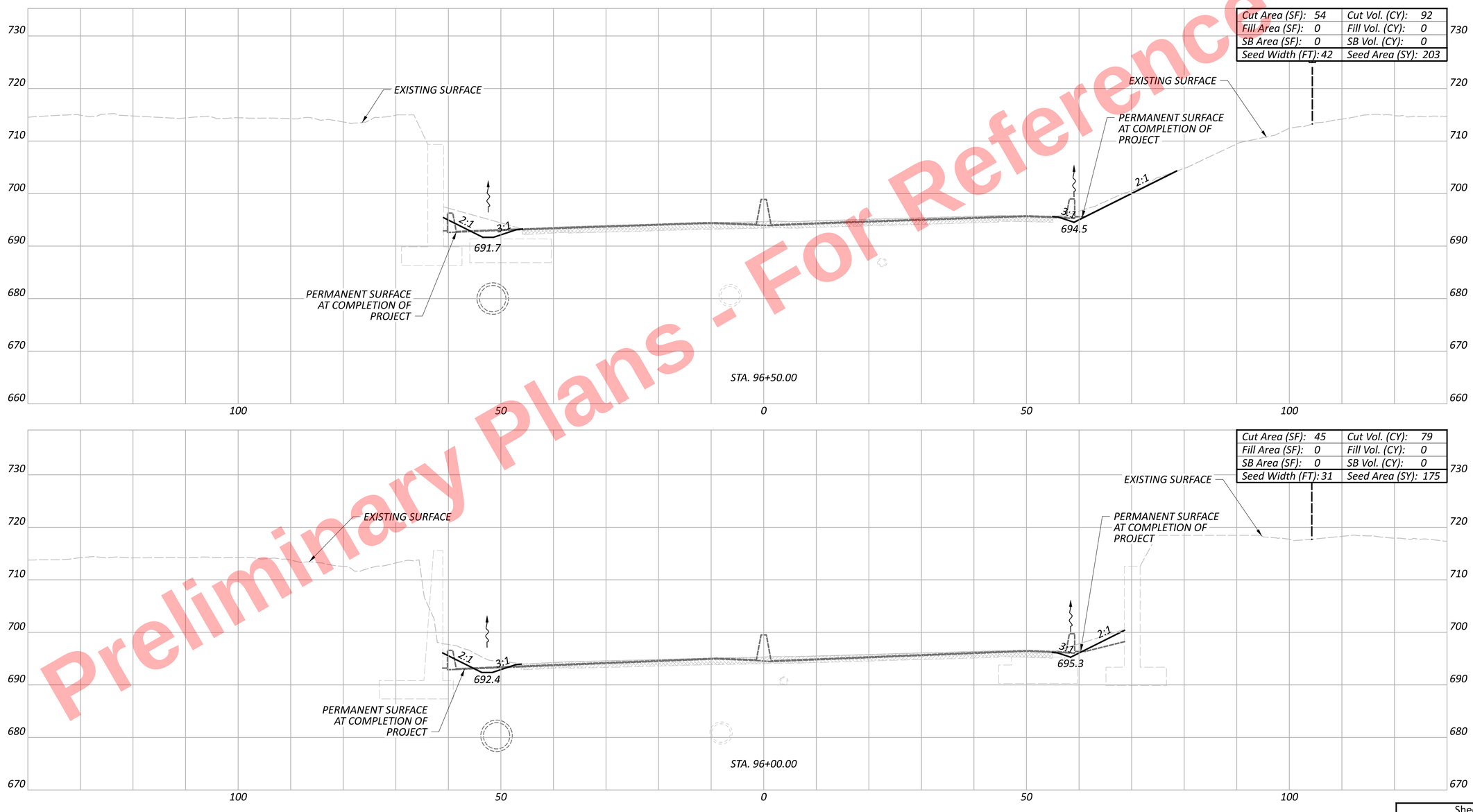

Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 96+00.00 TO STA. 96+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
378	171	0	0

SHEET P.216 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 96+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:41:15 AM USER: kperkins
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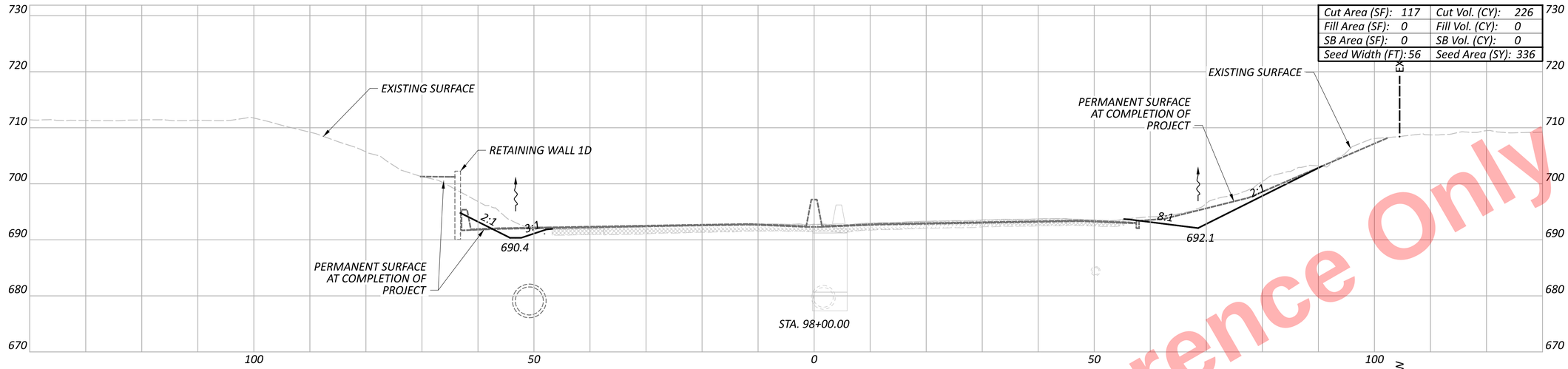
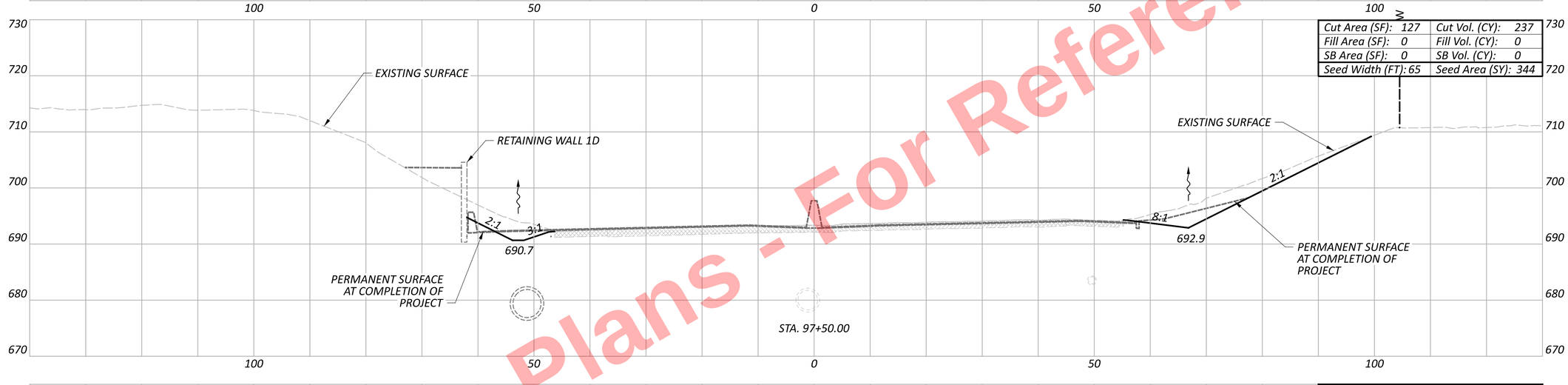
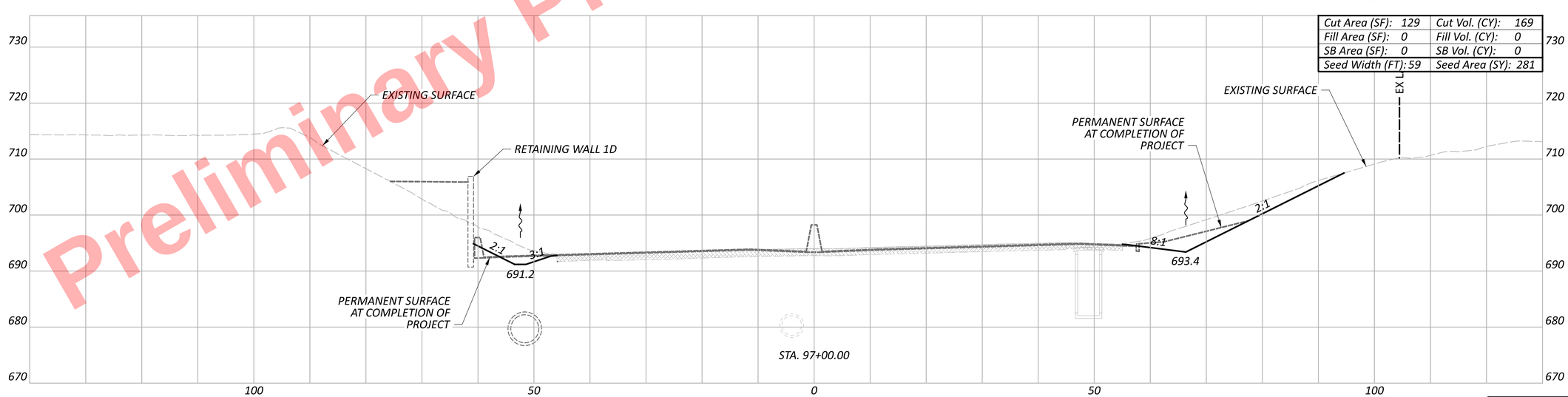


Cut Area (SF):	117	Cut Vol. (CY):	226
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	56	Seed Area (SY):	336



Cut Area (SF):	127	Cut Vol. (CY):	237
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	65	Seed Area (SY):	344



Cut Area (SF):	129	Cut Vol. (CY):	169
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	59	Seed Area (SY):	281

Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 97+00.00 TO STA. 98+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
961	632	0	0

DESIGN AGENCY: HNTB

DESIGNER: AS

REVIEWER: MTR 10/24/25

PROJECT ID: 105743

SHEET: P.217 TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 97+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:41:19 AM USER: kperkins
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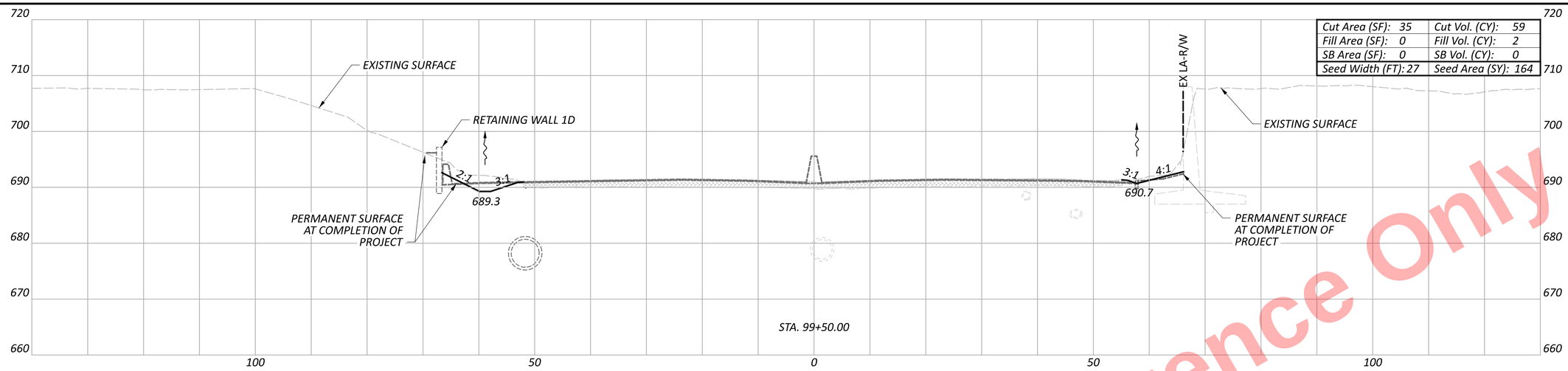
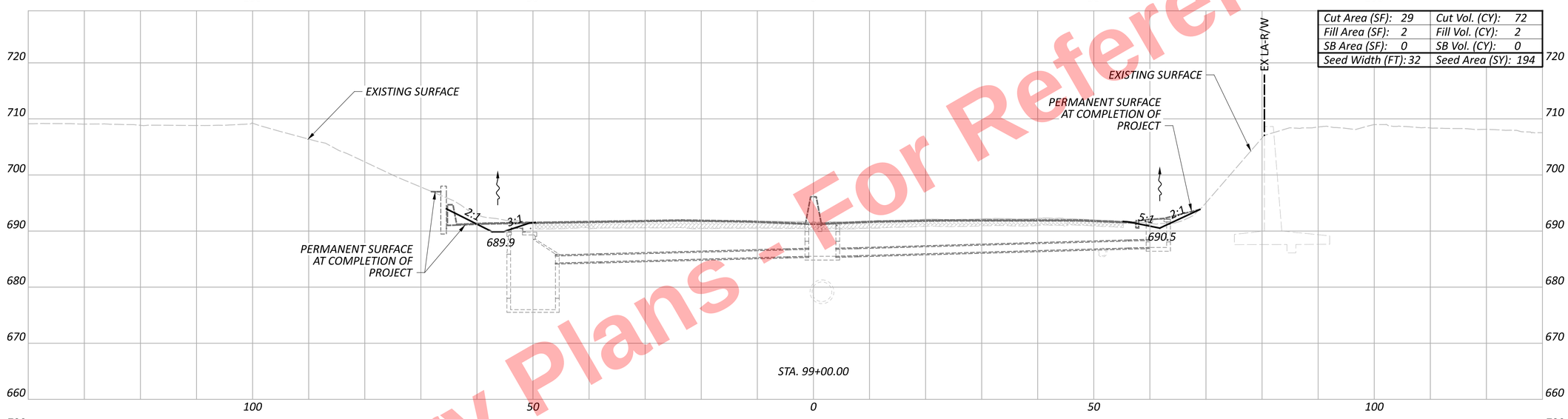
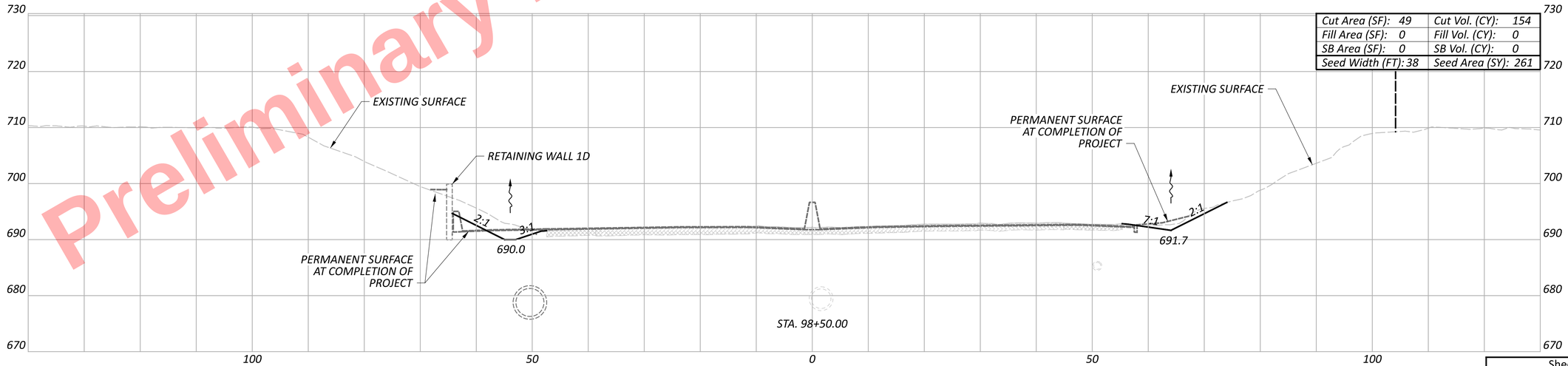


Cut Area (SF):	35	Cut Vol. (CY):	59
Fill Area (SF):	0	Fill Vol. (CY):	2
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	27	Seed Area (SY):	164



Cut Area (SF):	29	Cut Vol. (CY):	72
Fill Area (SF):	2	Fill Vol. (CY):	2
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	32	Seed Area (SY):	194



Cut Area (SF):	49	Cut Vol. (CY):	154
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	38	Seed Area (SY):	261

Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 98+50.00 TO STA. 99+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
619	285	4	0

SHEET P.218 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 98+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:41:24 AM USER: kperkins
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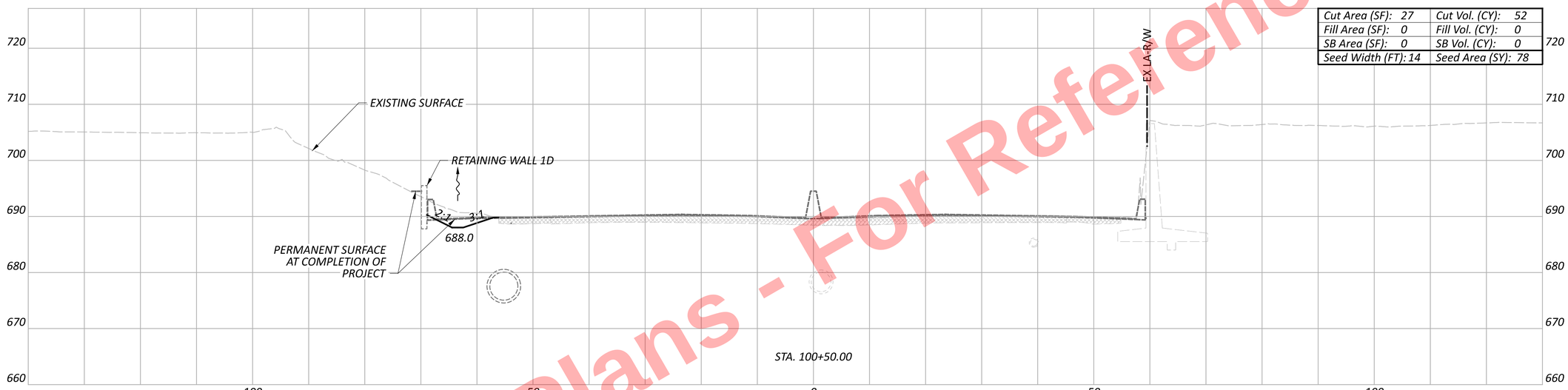
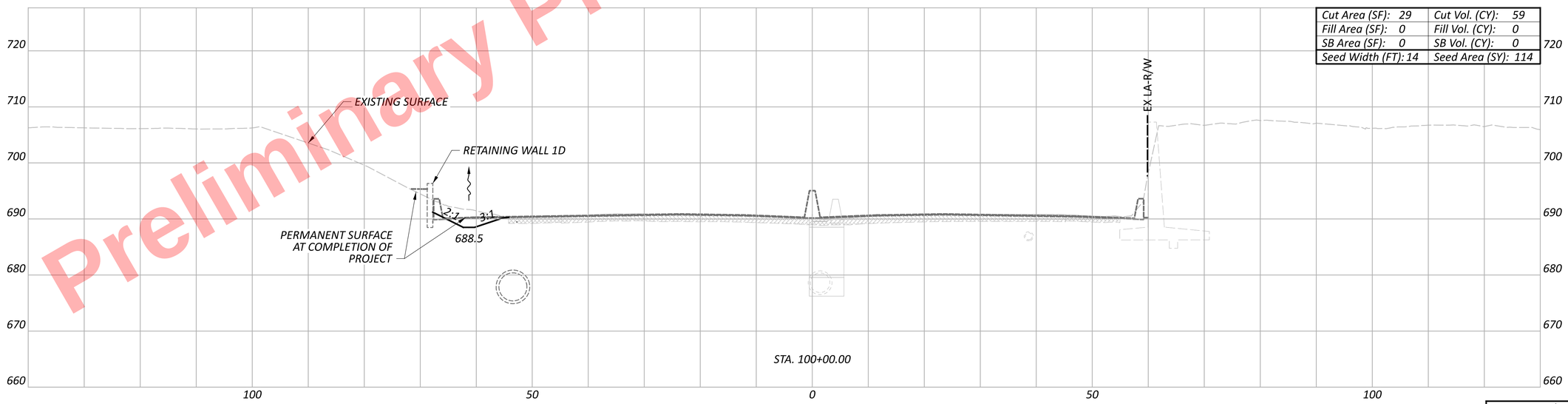
Preliminary Plans - For Reference Only

Cut Area (SF):	27	Cut Vol. (CY):	52
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	14	Seed Area (SY):	78



STA. 100+50.00

Cut Area (SF):	29	Cut Vol. (CY):	59
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	14	Seed Area (SY):	114



STA. 100+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
192	111	0	0

MOT CROSS SECTIONS - I.R. 77
STA. 100+00.00 TO STA. 100+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

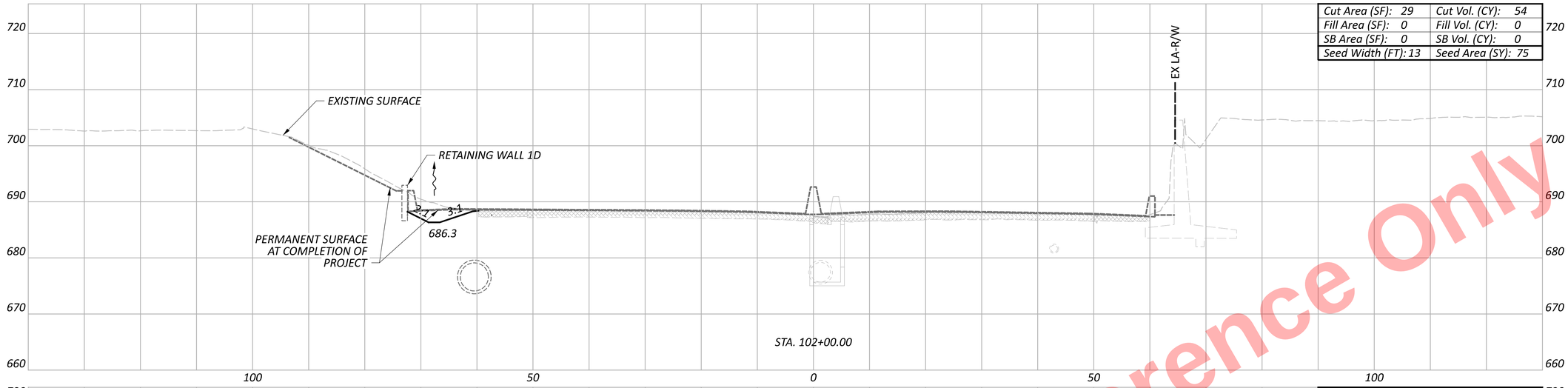
REVIEWER
MTR 10/24/25

PROJECT ID
105743

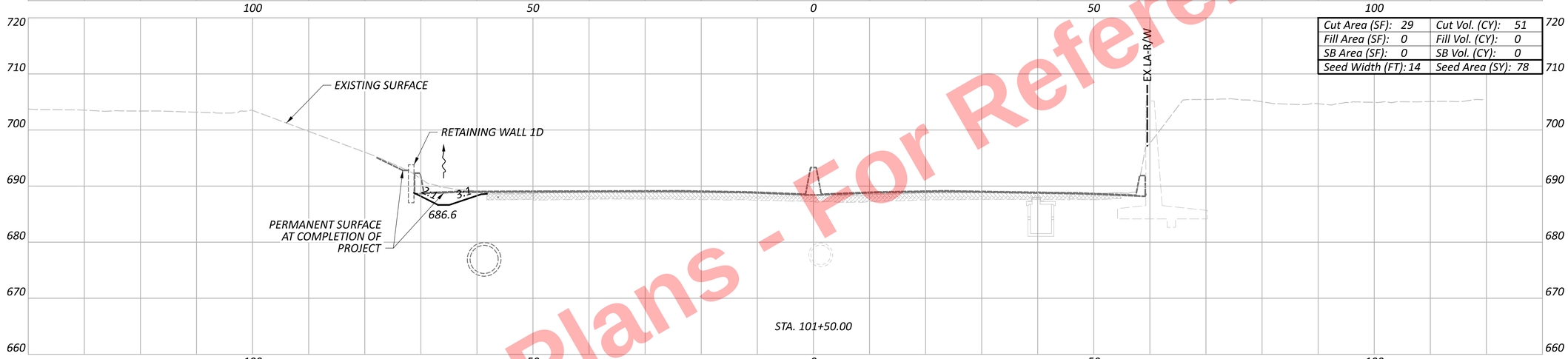
SHEET P.219 | TOTAL P.1269

CUY-77-11.41 - PART 1

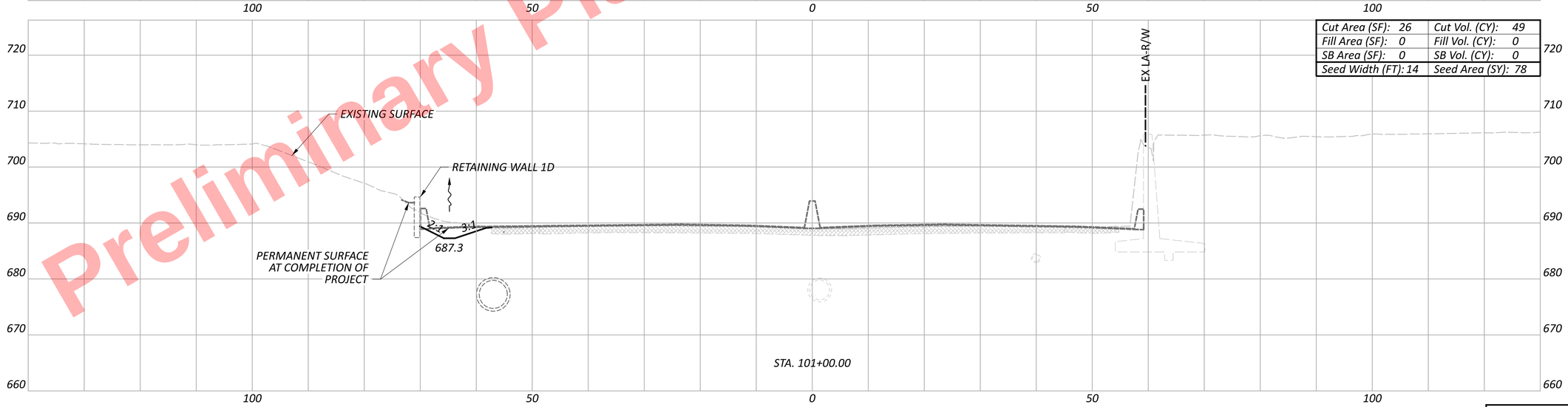
MODEL: TempGrading - 100+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:41:29 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn



Cut Area (SF):	29	Cut Vol. (CY):	54
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	13	Seed Area (SY):	75



Cut Area (SF):	29	Cut Vol. (CY):	51
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	14	Seed Area (SY):	78



Cut Area (SF):	26	Cut Vol. (CY):	49
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	14	Seed Area (SY):	78

Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 101+00.00 TO STA. 102+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
231	154	0	0

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.220 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 101+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/8/2026 TIME: 1:41:33 AM USER: kperkins
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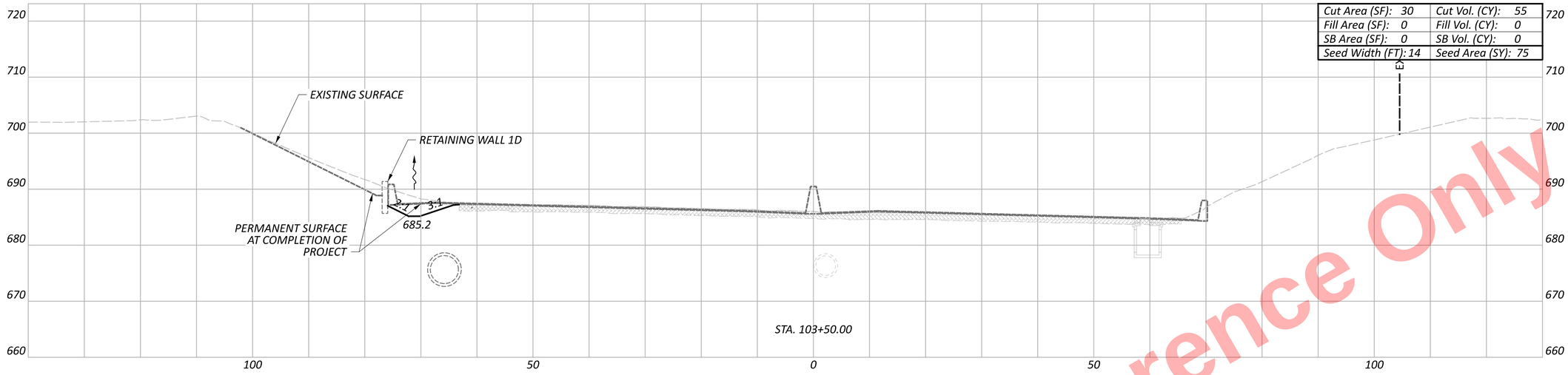
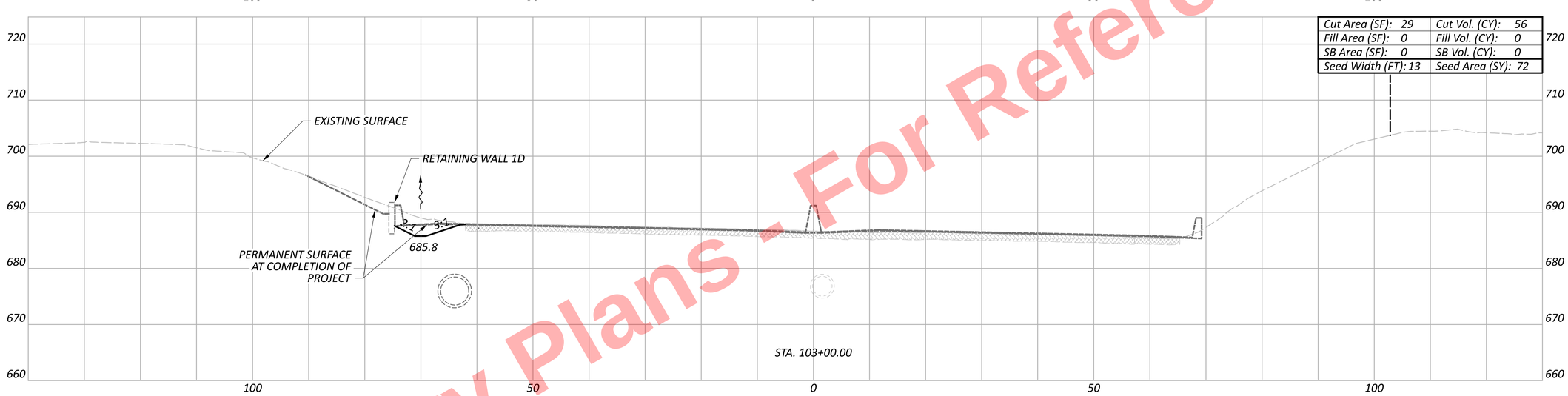
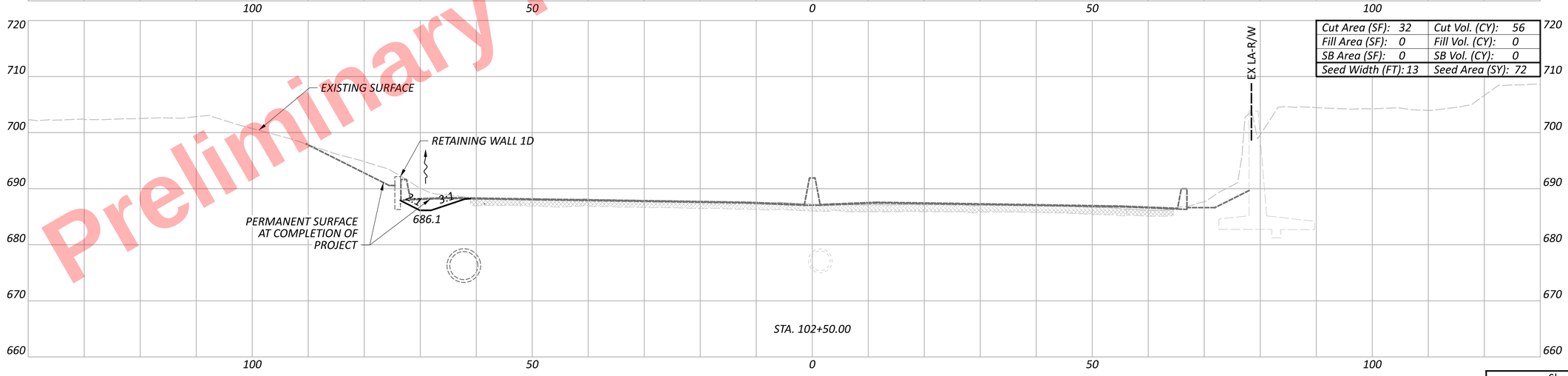


Cut Area (SF):	30	Cut Vol. (CY):	55
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	14	Seed Area (SY):	75



Cut Area (SF):	29	Cut Vol. (CY):	56
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	13	Seed Area (SY):	72



Cut Area (SF):	32	Cut Vol. (CY):	56
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	13	Seed Area (SY):	72

Preliminary Plans - Not For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 102+50.00 TO STA. 103+50.00

CUY-77-11.41 - PART 1

MODEL: TempGrading - 102+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:41:38 AM USER: kperkins
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Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
219	167	0	0

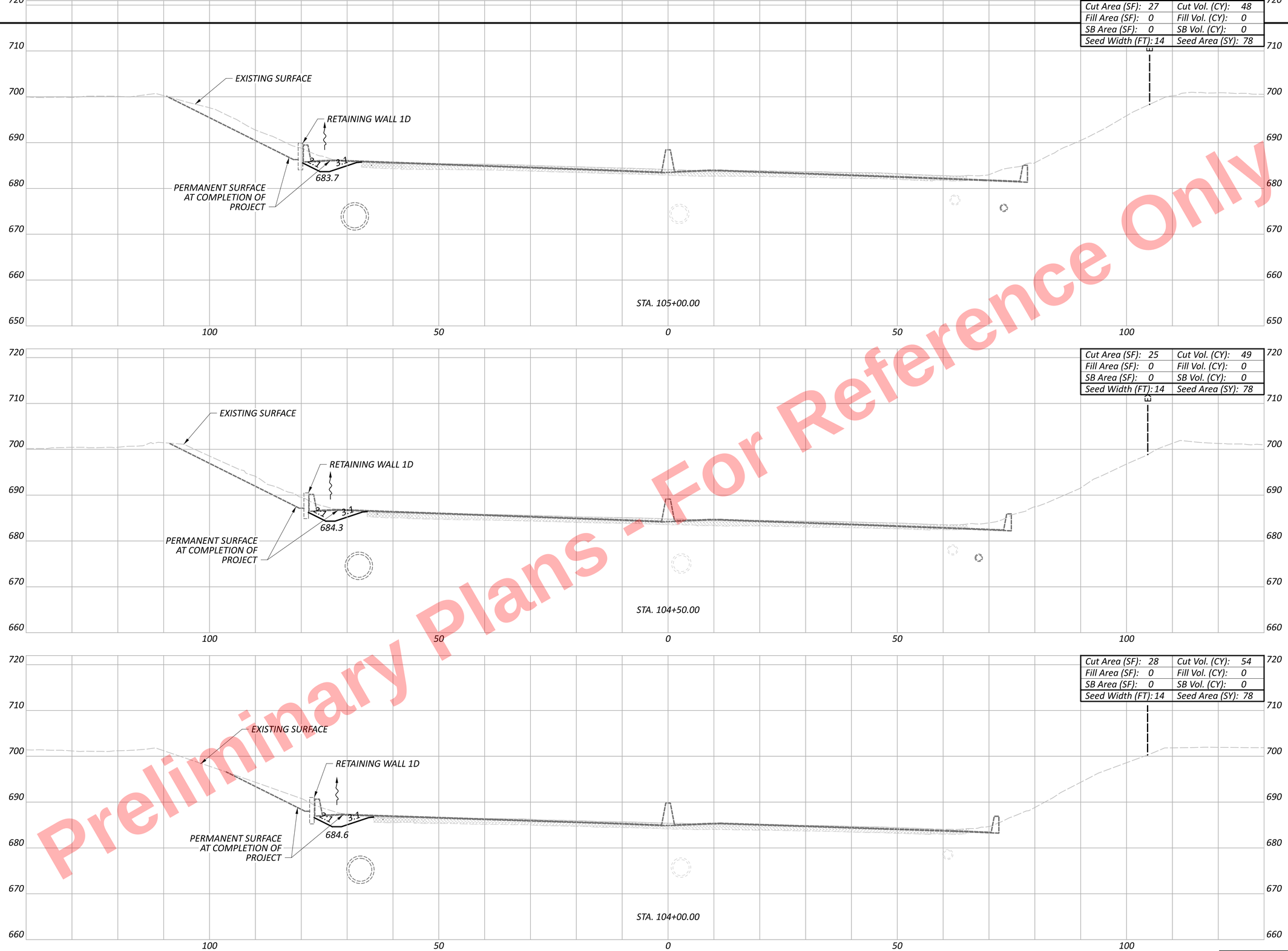
DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.221 TOTAL P.1269



Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: TempGrading - 104+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:41:43 AM USER: kperkins
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MOT CROSS SECTIONS - I.R. 77
STA. 104+00.00 TO STA. 105+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
234	151	0	0

DESIGN AGENCY
HNTB

DESIGNER
AS

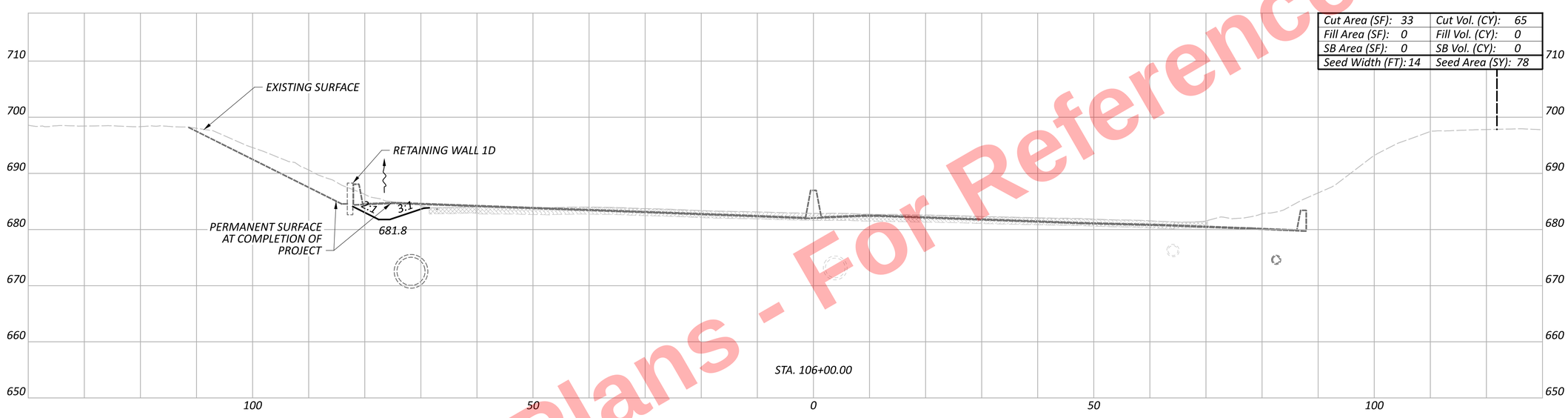
REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.222 TOTAL P.1269

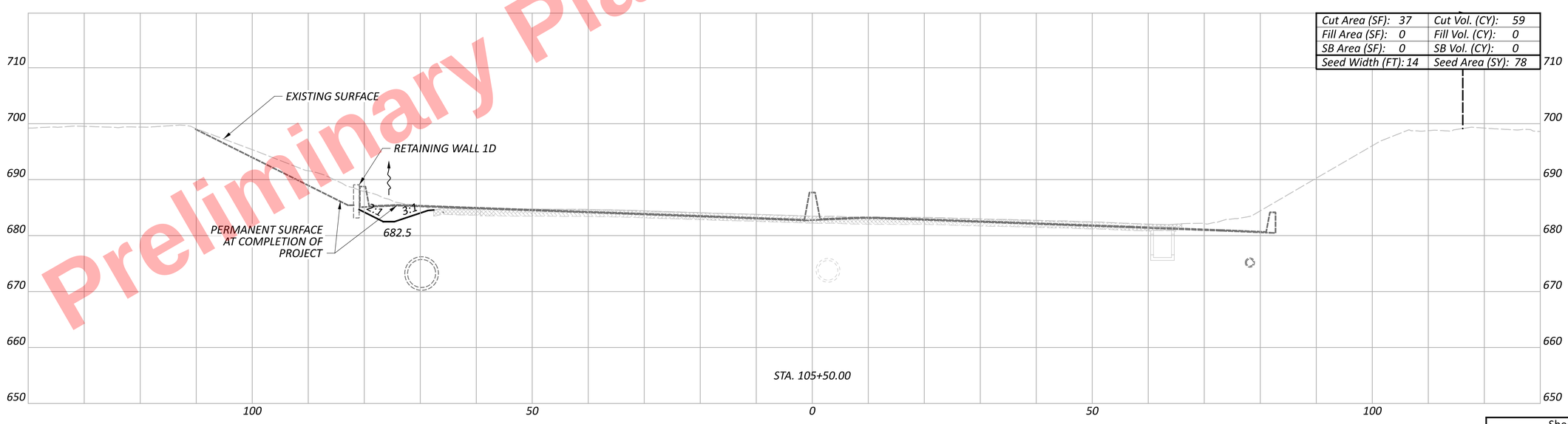
Preliminary Plans - Not For Reference Only

Cut Area (SF): 33	Cut Vol. (CY): 65
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 14	Seed Area (SY): 78



STA. 106+00.00

Cut Area (SF): 37	Cut Vol. (CY): 59
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 14	Seed Area (SY): 78



STA. 105+50.00

MOT CROSS SECTIONS - I.R. 77
STA. 105+50.00 TO STA. 106+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
156	124	0	0

SHEET P.223 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 105+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:41:49 AM USER: kperkins
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Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: TempGrading - 106+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:41:52 AM USER: kperkins
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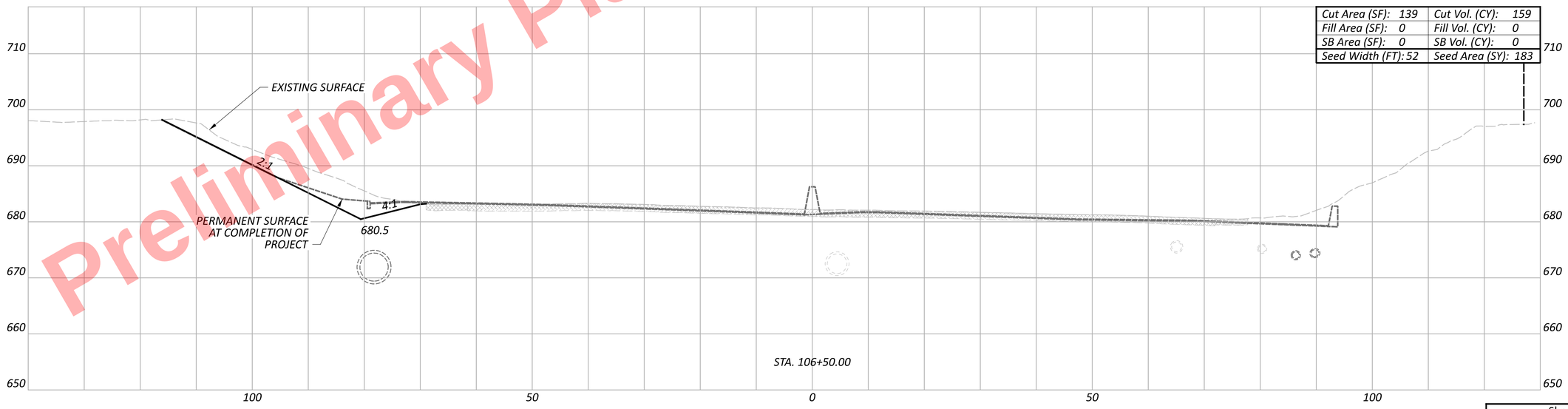
MOT CROSS SECTIONS - I.R. 77
STA. 106+50.00



Cut Area (SF):	139	Cut Vol. (CY):	159
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	52	Seed Area (SY):	183

DESIGN AGENCY
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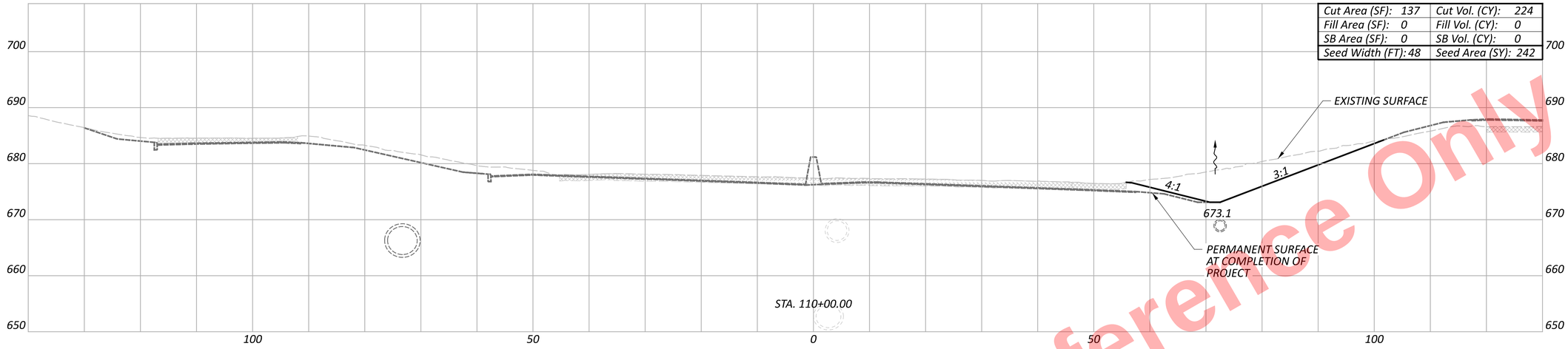
MTR 10/24/25

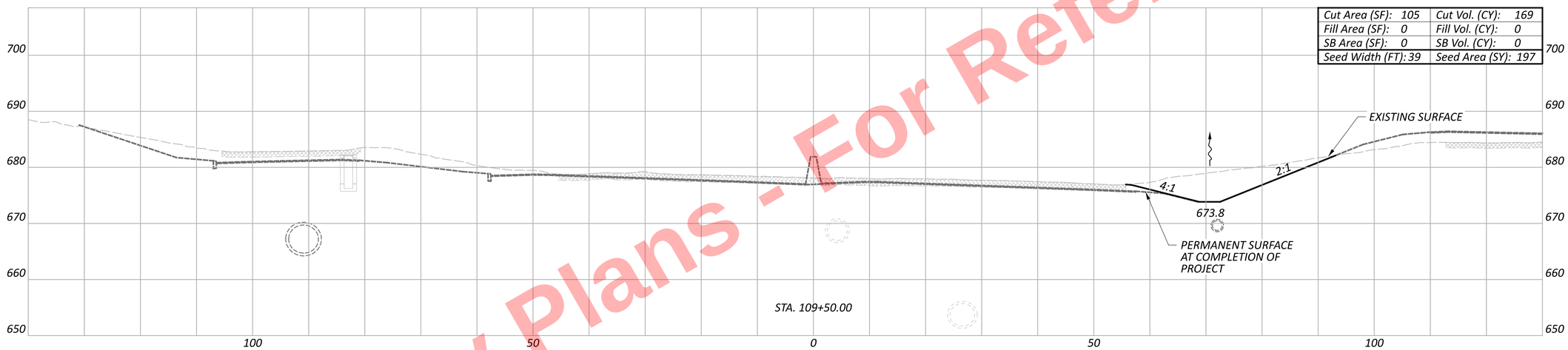
PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
183	159	0	0

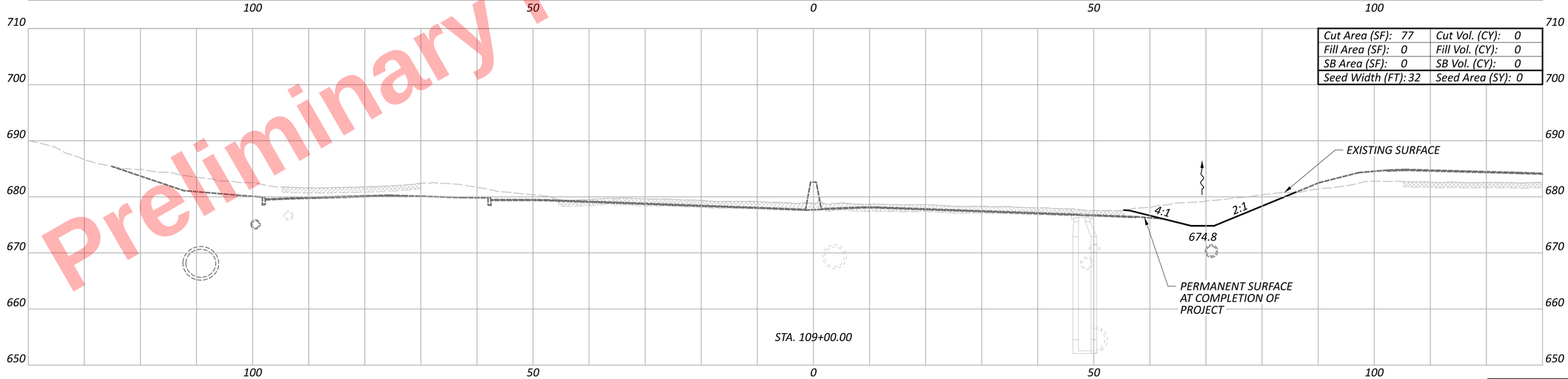
SHEET	TOTAL
P.224	P.1269



Cut Area (SF): 137	Cut Vol. (CY): 224
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 48	Seed Area (SY): 242



Cut Area (SF): 105	Cut Vol. (CY): 169
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 39	Seed Area (SY): 197



Cut Area (SF): 77	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 32	Seed Area (SY): 0

Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 109+00.00 TO STA. 110+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
439	393	0	0

DESIGN AGENCY
HNTB

DESIGNER
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REVIEWER
MTR 10/24/25

PROJECT ID
105743

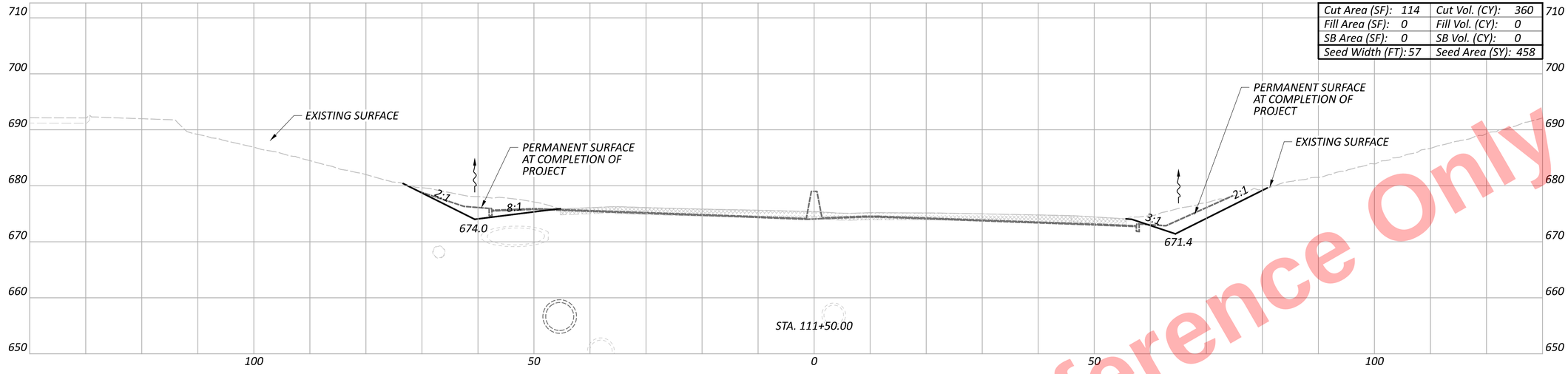
SHEET P.225 TOTAL P.1269

CUY-77-11.41 - PART 1

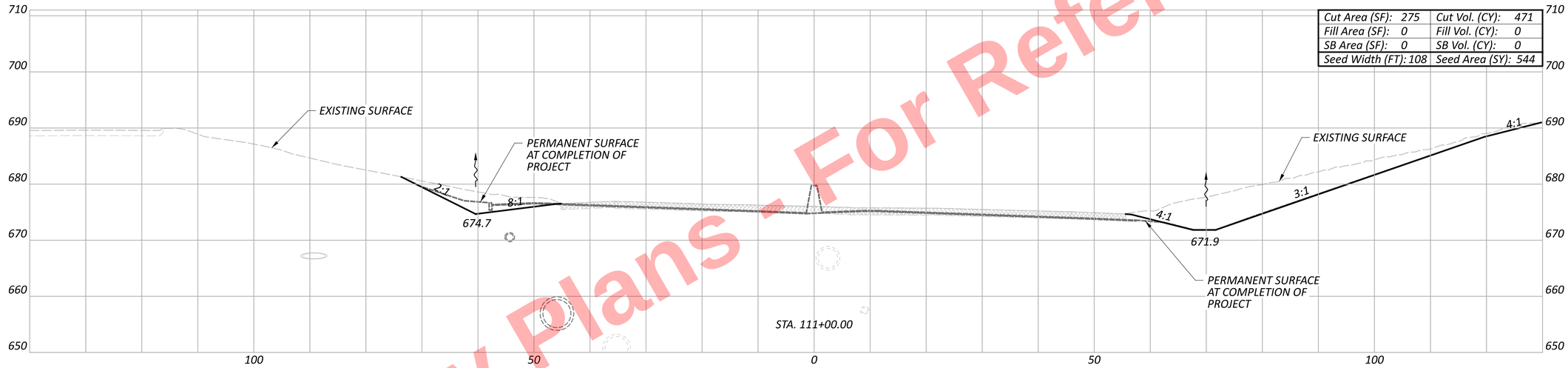
MODEL: TempGrading - 109+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:41:55 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only

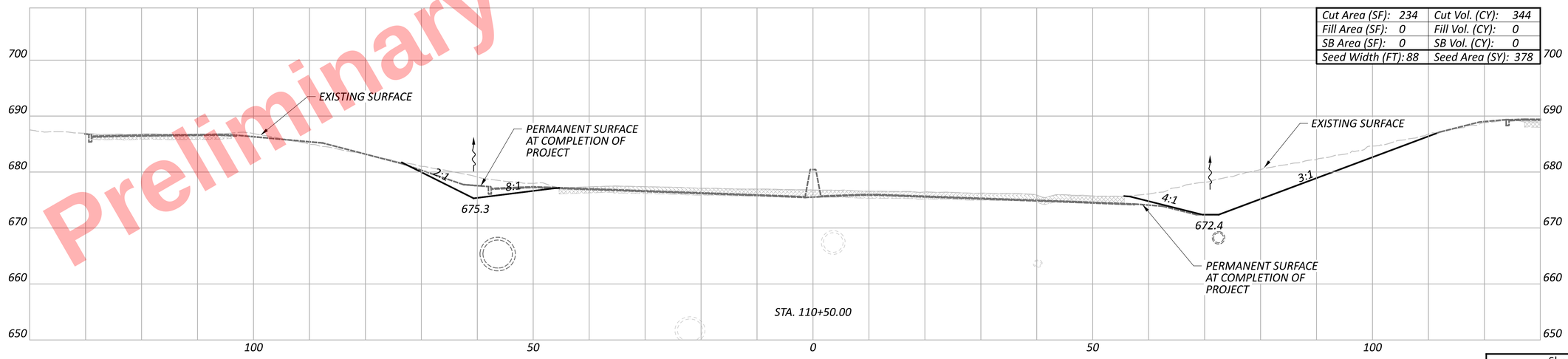
Cut Area (SF):	114	Cut Vol. (CY):	360
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	57	Seed Area (SY):	458



Cut Area (SF):	275	Cut Vol. (CY):	471
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	108	Seed Area (SY):	544



Cut Area (SF):	234	Cut Vol. (CY):	344
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	88	Seed Area (SY):	378



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1380	1175	0	0

MOT CROSS SECTIONS - I.R. 77
STA. 110+50.00 TO STA. 111+50.00

DESIGN AGENCY
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MTR 10/24/25

PROJECT ID
105743

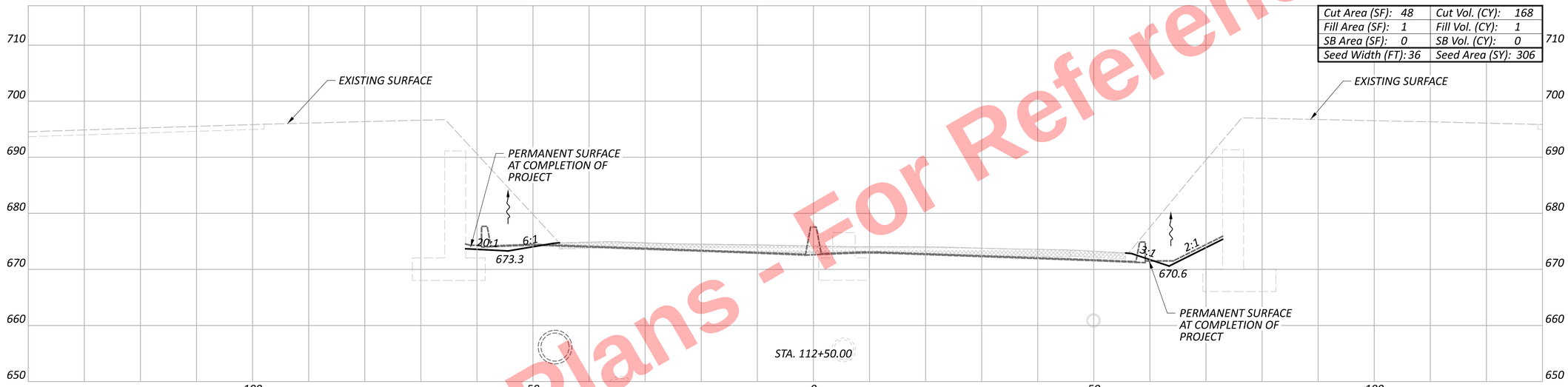
SHEET P.226 | TOTAL P.1269

CUY-77-11.41 - PART 1

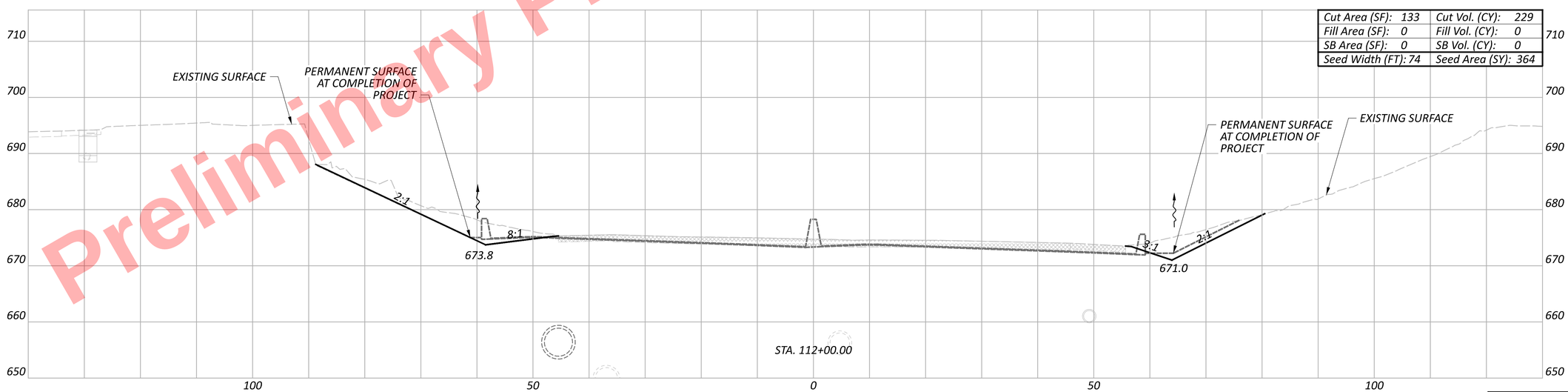
MODEL: TempGrading - 110+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:42:00 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\W00-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only

Cut Area (SF):	48	Cut Vol. (CY):	168
Fill Area (SF):	1	Fill Vol. (CY):	1
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	36	Seed Area (SY):	306



Cut Area (SF):	133	Cut Vol. (CY):	229
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	74	Seed Area (SY):	364



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
670	397	1	0

MOT CROSS SECTIONS - I.R. 77
STA. 112+00.00 TO STA. 112+50.00

DESIGN AGENCY
HNTB

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MTR 10/24/25

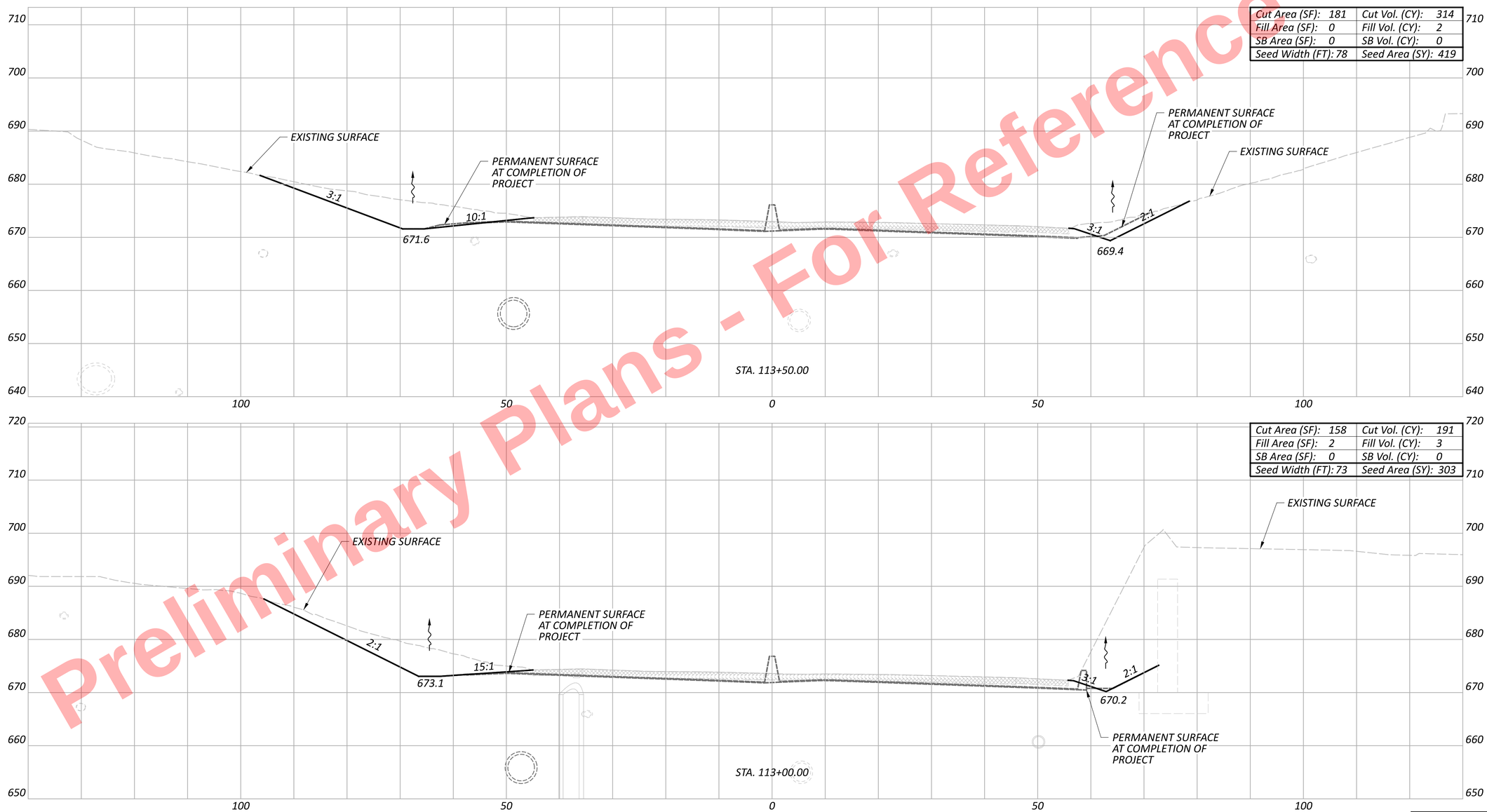
PROJECT ID
105743

SHEET P.227 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 112+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:42:05 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only



MOT CROSS SECTIONS - I.R. 77
STA. 113+00.00 TO STA. 113+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
722	505	5	0

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER MTR 10/24/25
PROJECT ID 105743
SHEET P.228 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 113+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:42:09 AM USER: kperkins
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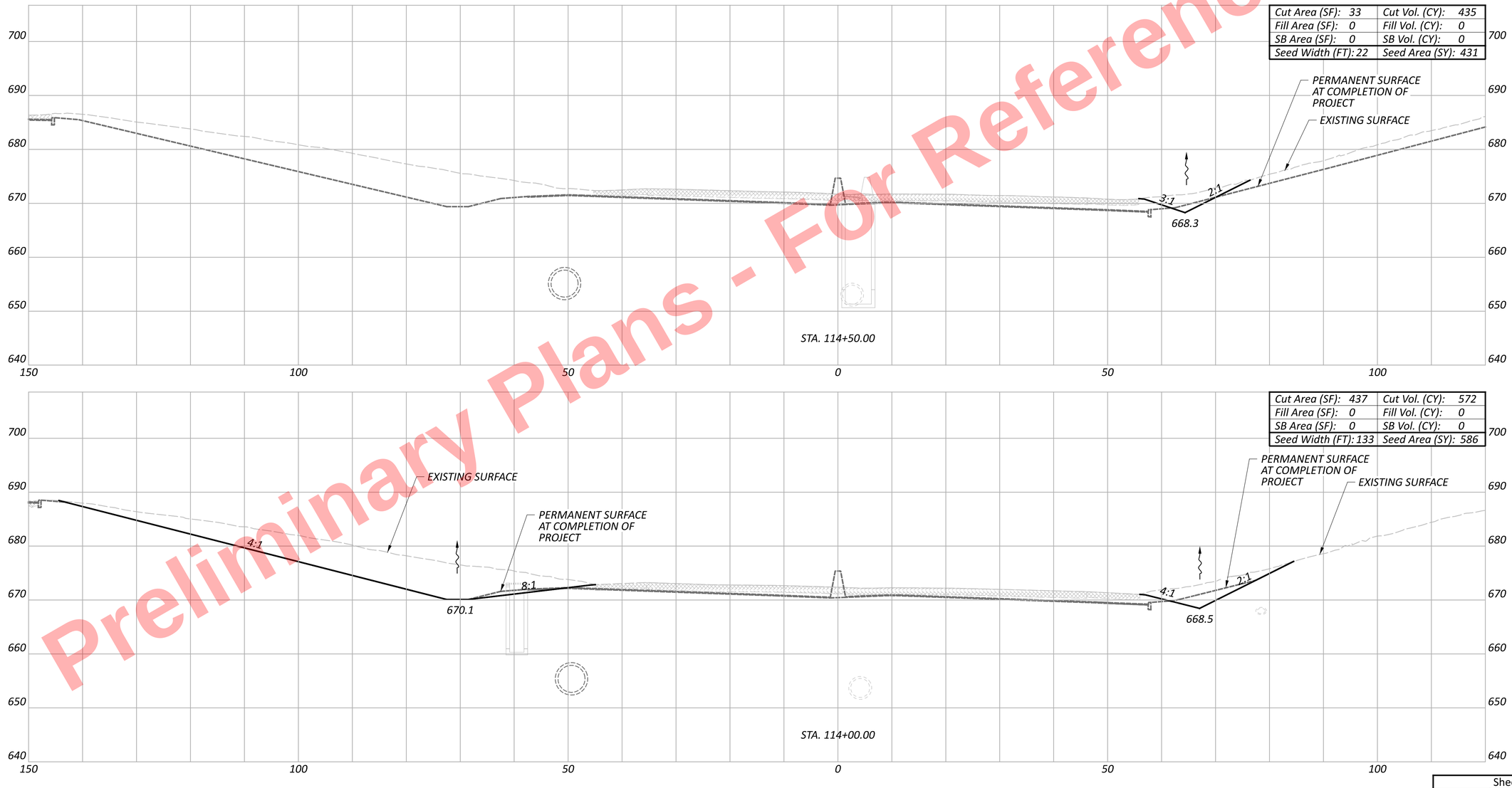
Preliminary Plans - For Reference Only



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1017	1007	0	0

MOT CROSS SECTIONS - I.R. 77
STA. 114+00.00 TO STA. 114+50.00

DESIGN AGENCY
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DESIGNER
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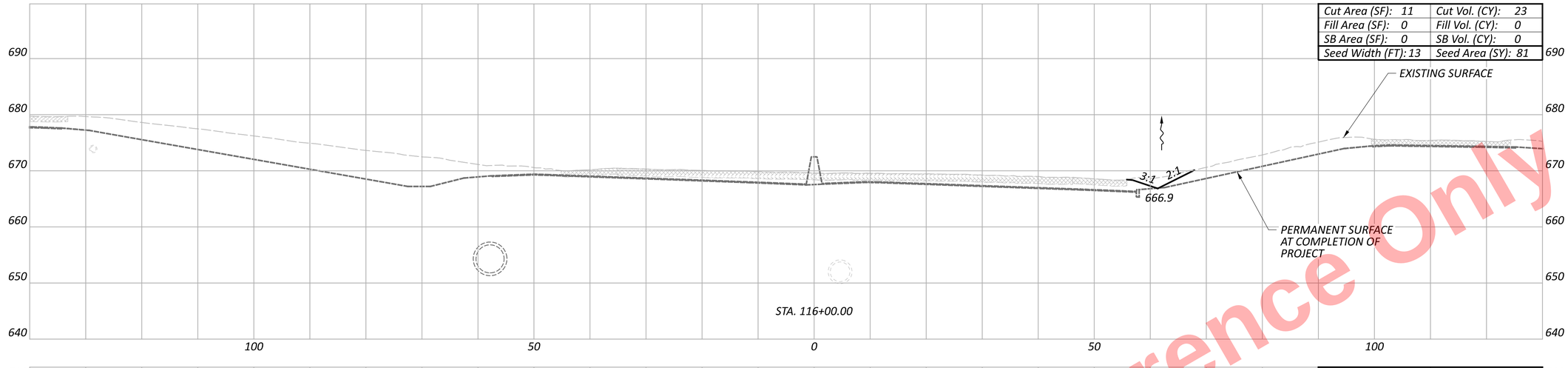
MTR 10/24/25

PROJECT ID
105743

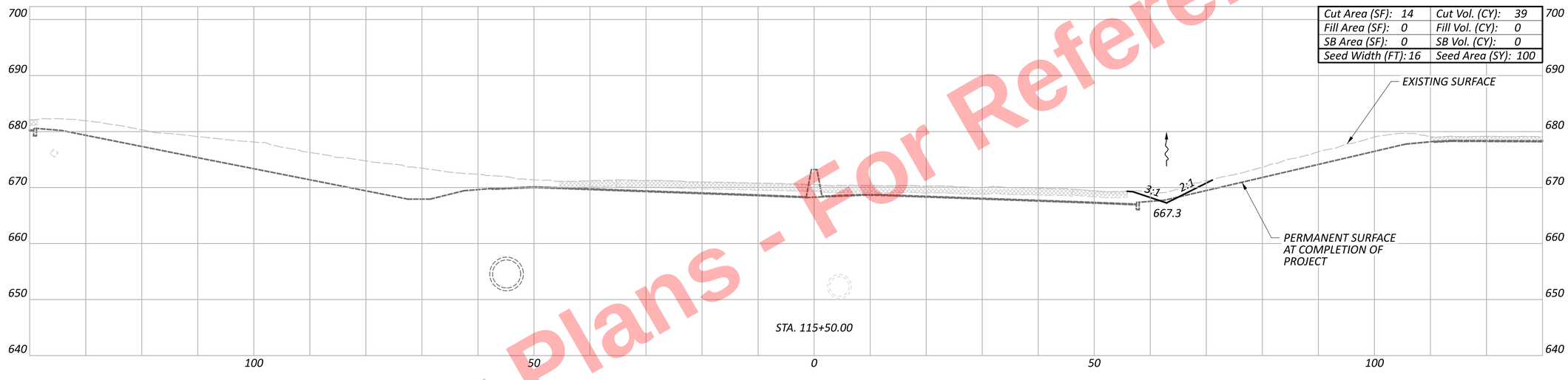
SHEET P.229 | TOTAL P.1269

CUY-77-11.41 - PART 1

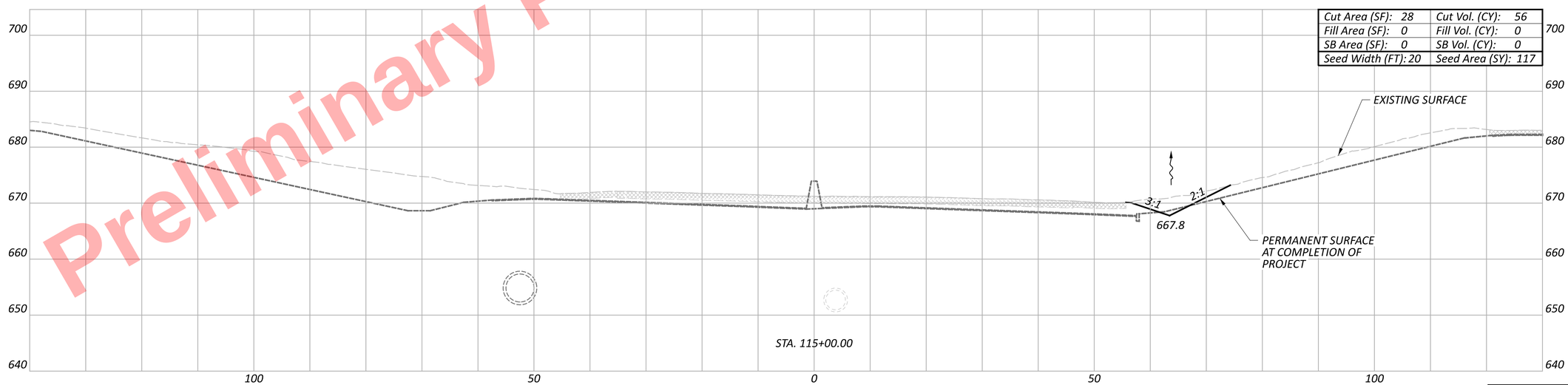
MODEL: TempGrading - 114+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:42:12 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn



Cut Area (SF):	11	Cut Vol. (CY):	23
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	13	Seed Area (SY):	81



Cut Area (SF):	14	Cut Vol. (CY):	39
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	16	Seed Area (SY):	100



Cut Area (SF):	28	Cut Vol. (CY):	56
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	20	Seed Area (SY):	117

Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 115+00.00 TO STA. 116+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
298	118	0	0

DESIGN AGENCY
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MTR 10/24/25

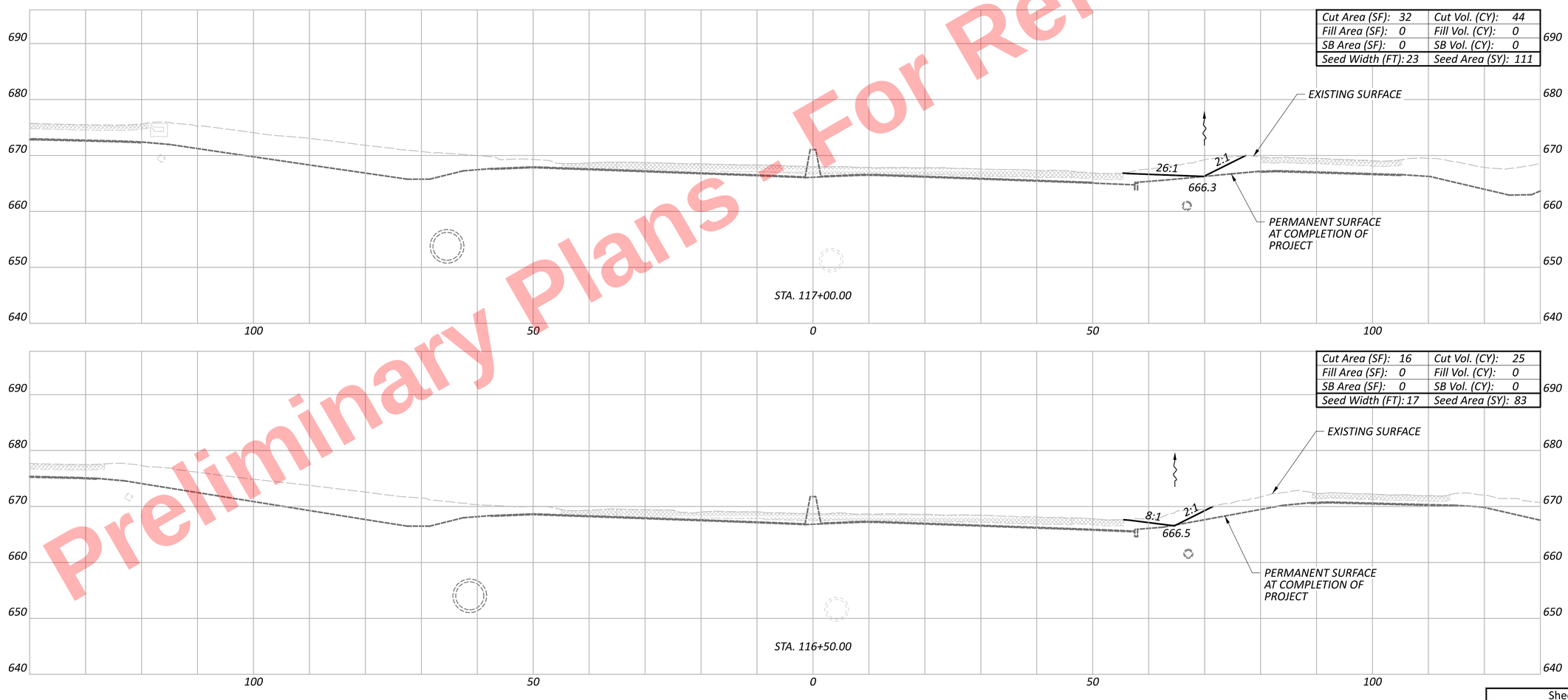
PROJECT ID
105743

SHEET P.230 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 115+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:42:15 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only



MOT CROSS SECTIONS - I.R. 77
STA. 116+50.00 TO STA. 117+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
194	69	0	0

DESIGN AGENCY
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DESIGNER
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MTR 10/24/25

PROJECT ID
105743

SHEET P.231 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 116+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:42:19 AM USER: kperkins
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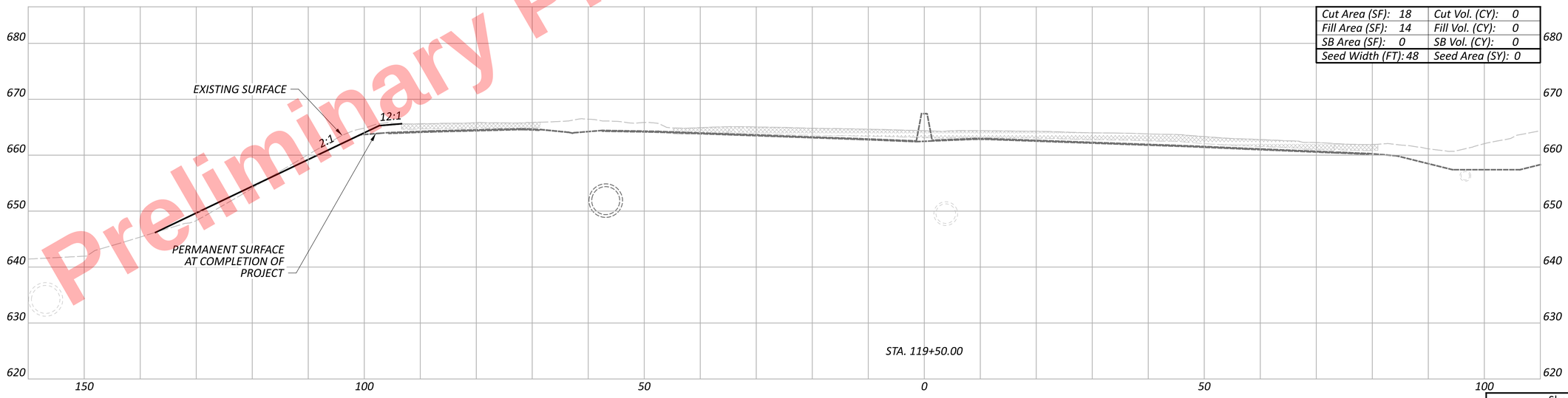
Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: TempGrading - 119+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:42:23 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\S - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\40D-Engineering\MOT\Sheets\105743_XS101.dgn

MOT CROSS SECTIONS - I.R. 77
STA. 119+50.00



Cut Area (SF):	18	Cut Vol. (CY):	0
Fill Area (SF):	14	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	48	Seed Area (SY):	0

DESIGN AGENCY
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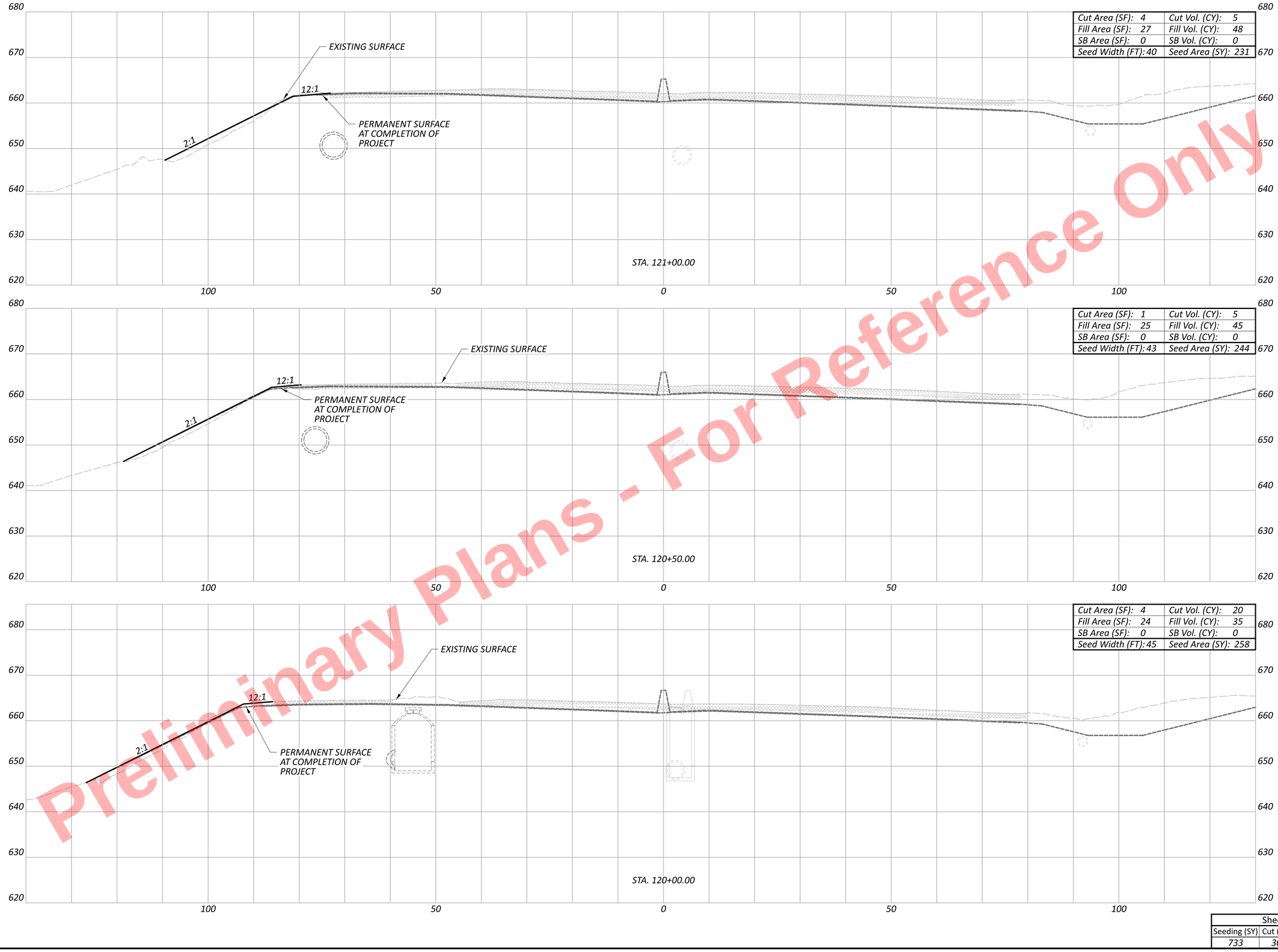
MTR 10/24/25

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
0	0	0	0

SHEET	TOTAL
P.232	P.1269



Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 120+00.00 TO STA. 121+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.233 | TOTAL P.1269

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
733	30	128	0

CUY-77-11.41 - PART 1

MODEL: TempGrading - 120+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:42:25 AM USER: kperkins
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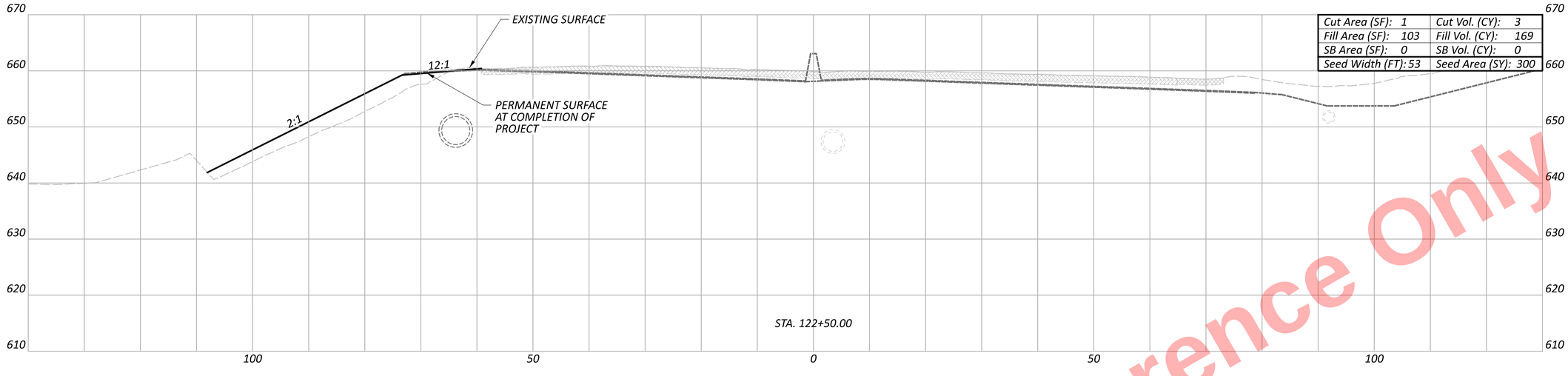
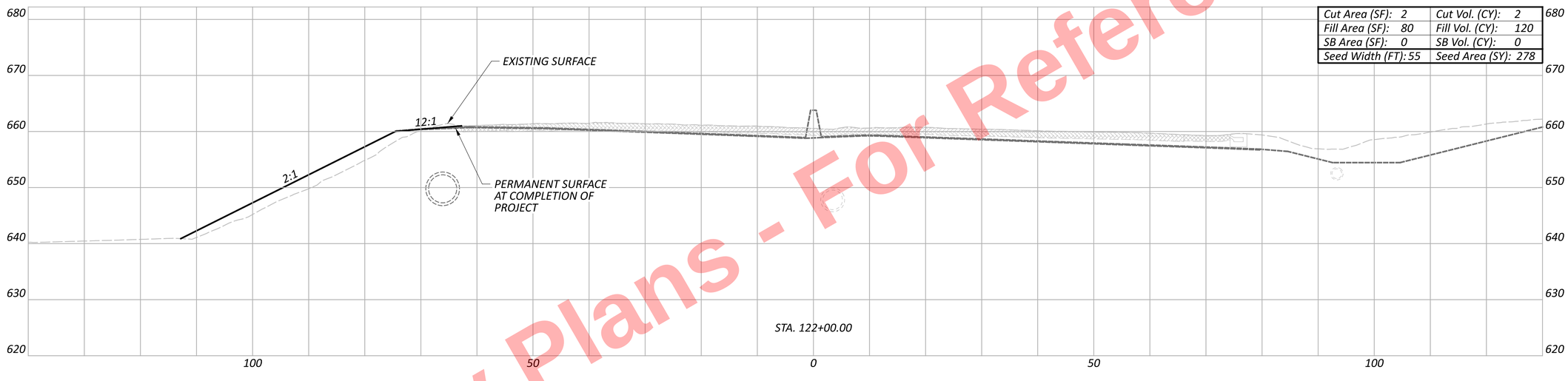
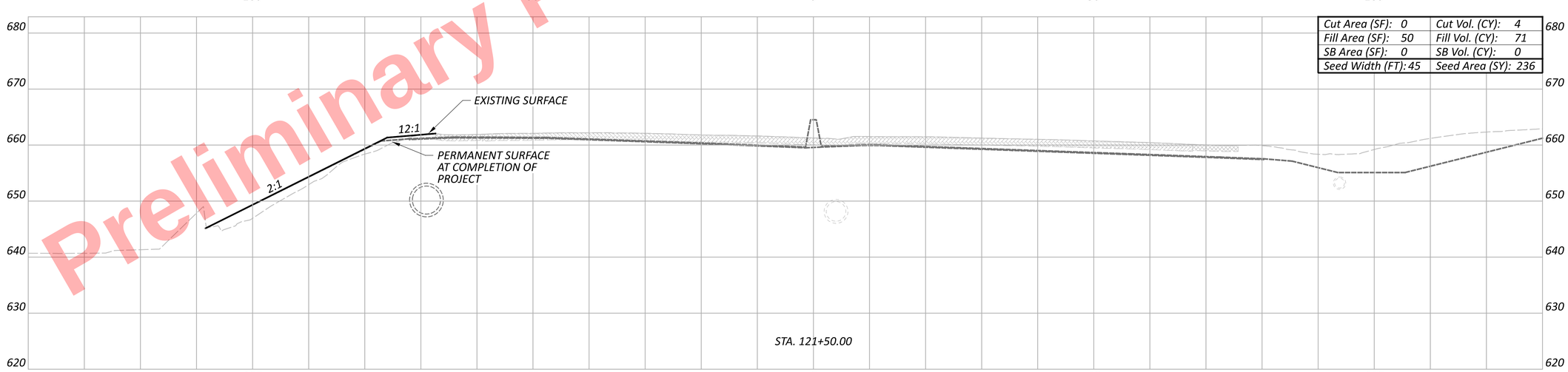


Cut Area (SF):	1	Cut Vol. (CY):	3
Fill Area (SF):	103	Fill Vol. (CY):	169
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	53	Seed Area (SY):	300



Cut Area (SF):	2	Cut Vol. (CY):	2
Fill Area (SF):	80	Fill Vol. (CY):	120
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	55	Seed Area (SY):	278



Cut Area (SF):	0	Cut Vol. (CY):	4
Fill Area (SF):	50	Fill Vol. (CY):	71
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	45	Seed Area (SY):	236

Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 121+50.00 TO STA. 122+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
814	9	360	0

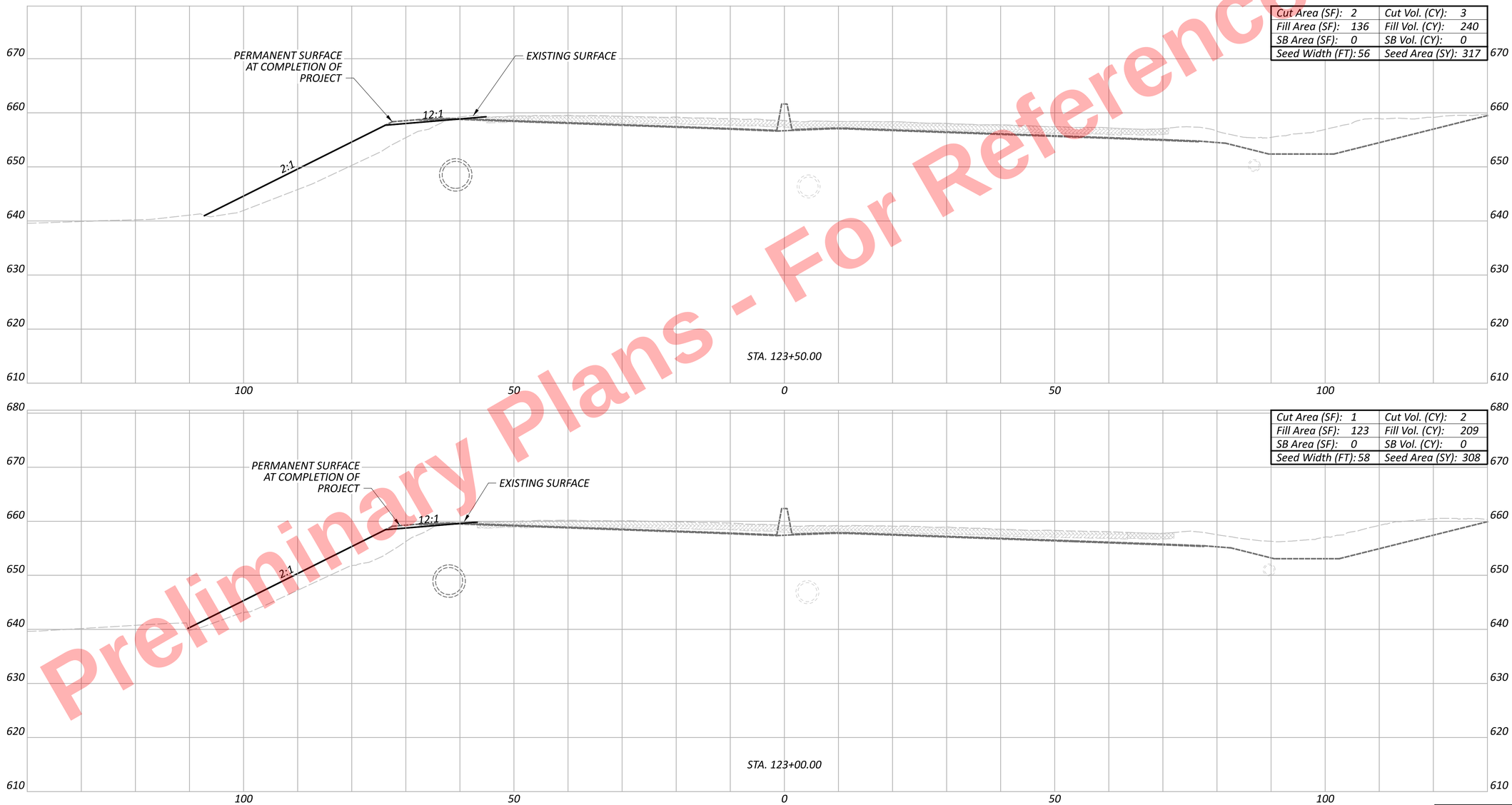
DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER MTR 10/24/25
PROJECT ID 105743
SHEET P.234 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 121+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:42:46 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
625	5	449	0

MOT CROSS SECTIONS - I.R. 77
STA. 123+00.00 TO STA. 123+50.00

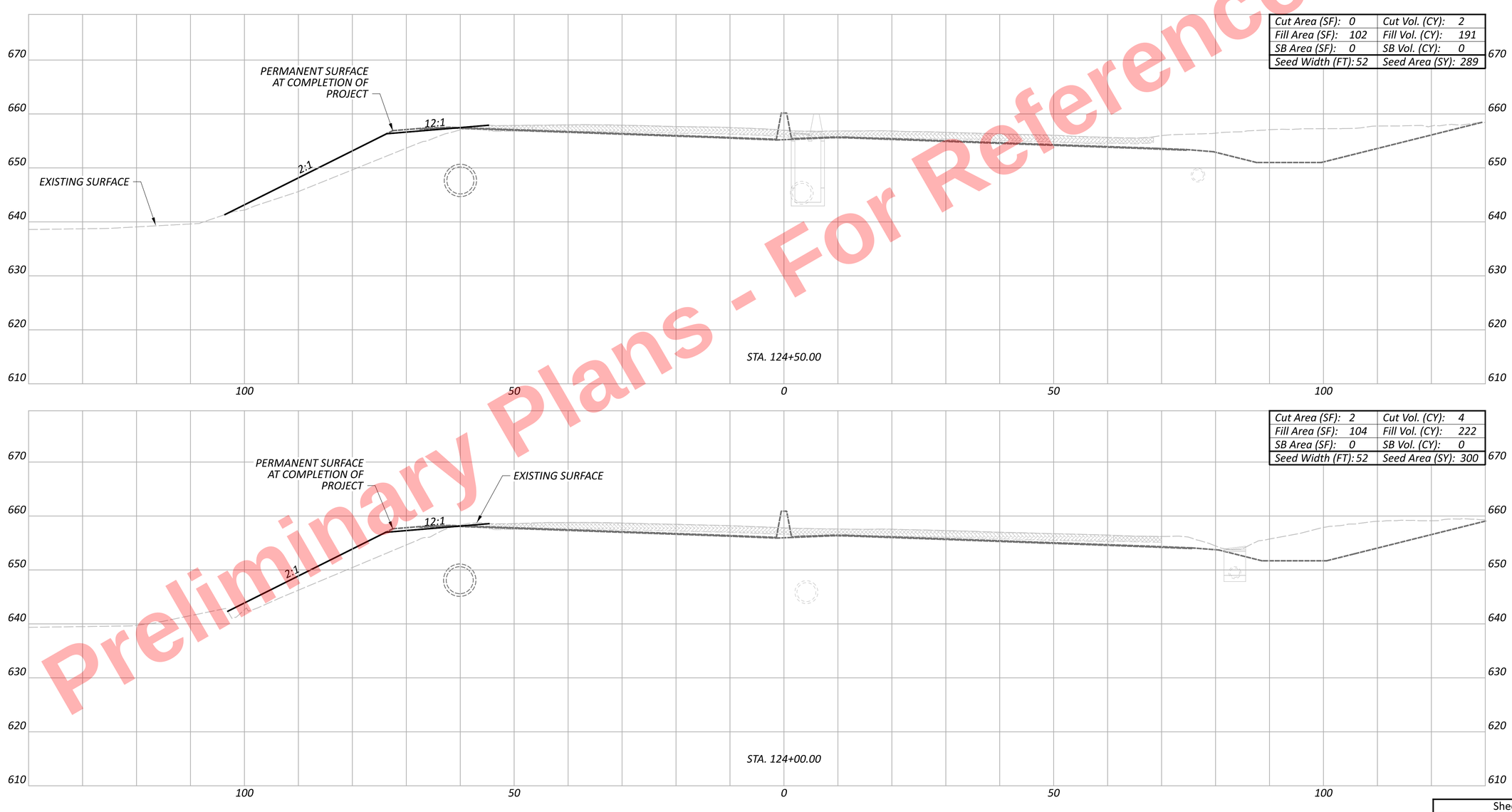
DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER MTR 10/24/25
PROJECT ID 105743
SHEET P.235 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 123+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:42:51 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
589	6	413	0

MOT CROSS SECTIONS - I.R. 77
STA. 124+00.00 TO STA. 124+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

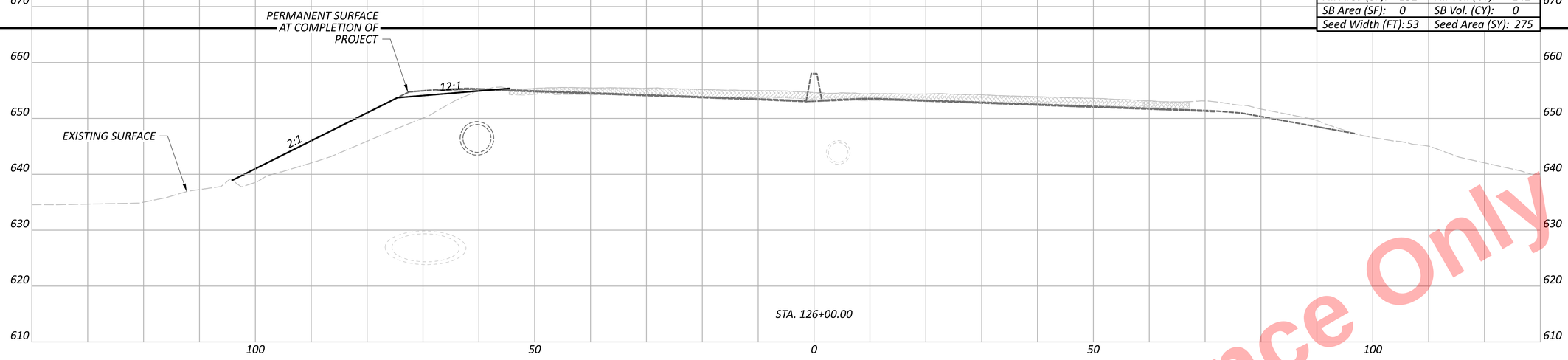
REVIEWER
MTR 10/24/25

PROJECT ID
105743

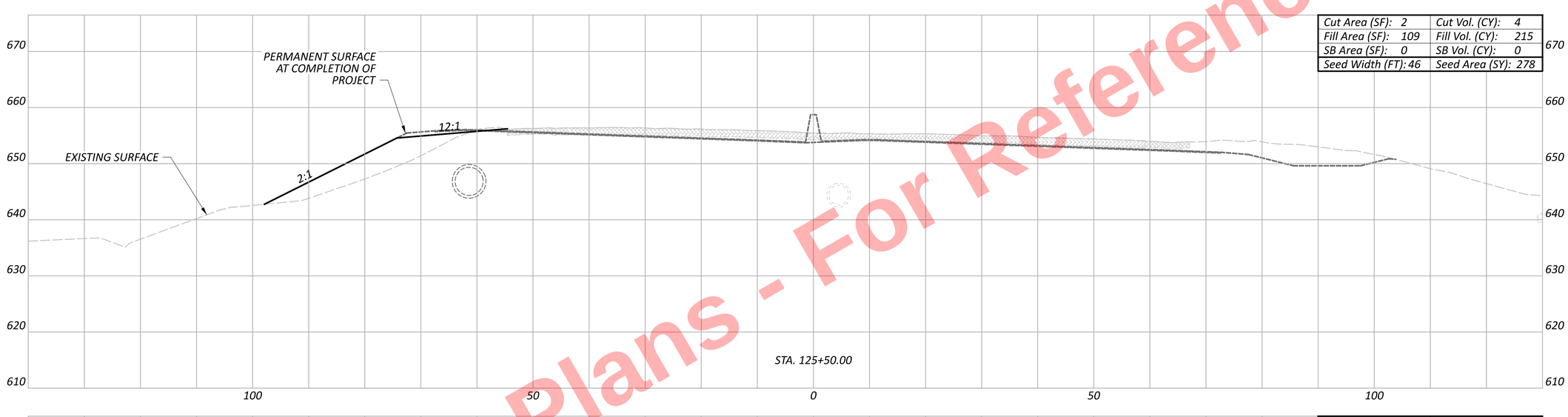
SHEET P.236 | TOTAL P.1269

CUY-77-11.41 - PART 1

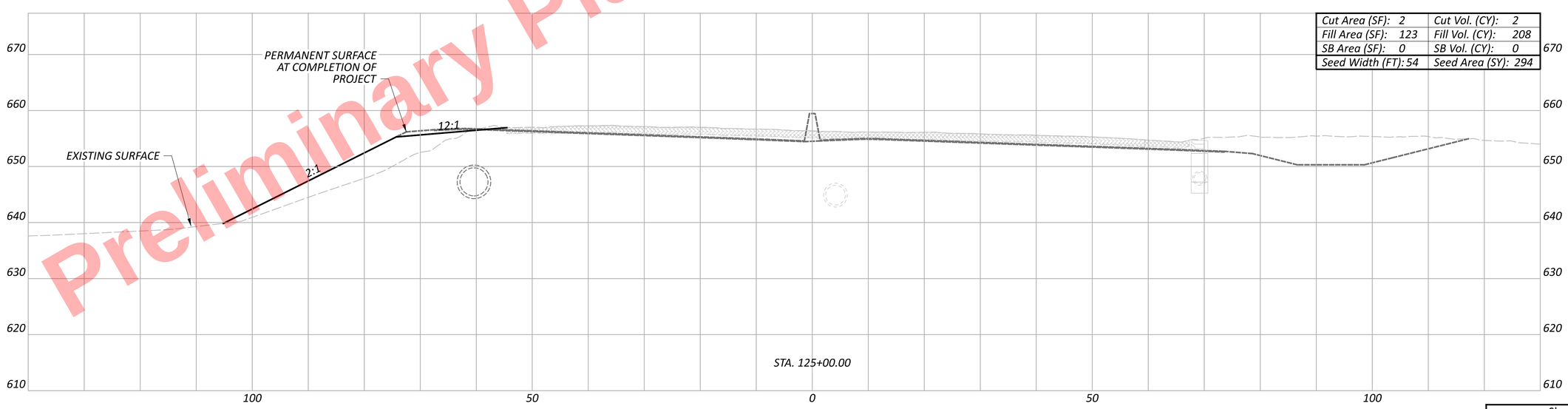
MODEL: TempGrading - 124+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:42:54 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn



Cut Area (SF): 2	Cut Vol. (CY): 4
Fill Area (SF): 109	Fill Vol. (CY): 215
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 46	Seed Area (SY): 278



Cut Area (SF): 2	Cut Vol. (CY): 2
Fill Area (SF): 123	Fill Vol. (CY): 208
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 54	Seed Area (SY): 294



Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 125+00.00 TO STA. 126+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
847	9	665	0

DESIGN AGENCY
HNTB

DESIGNER
AS

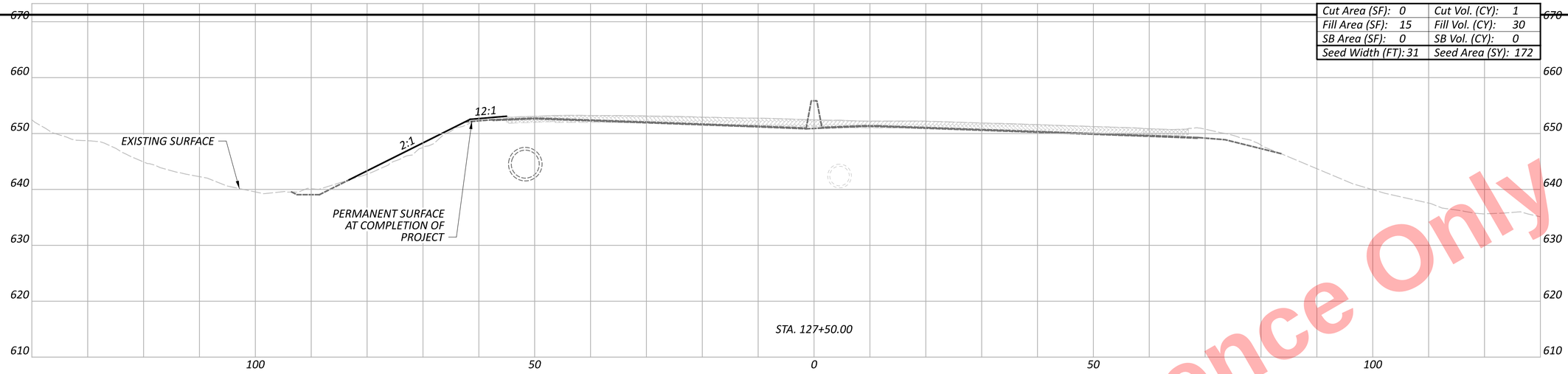
REVIEWER
MTR 10/24/25

PROJECT ID
105743

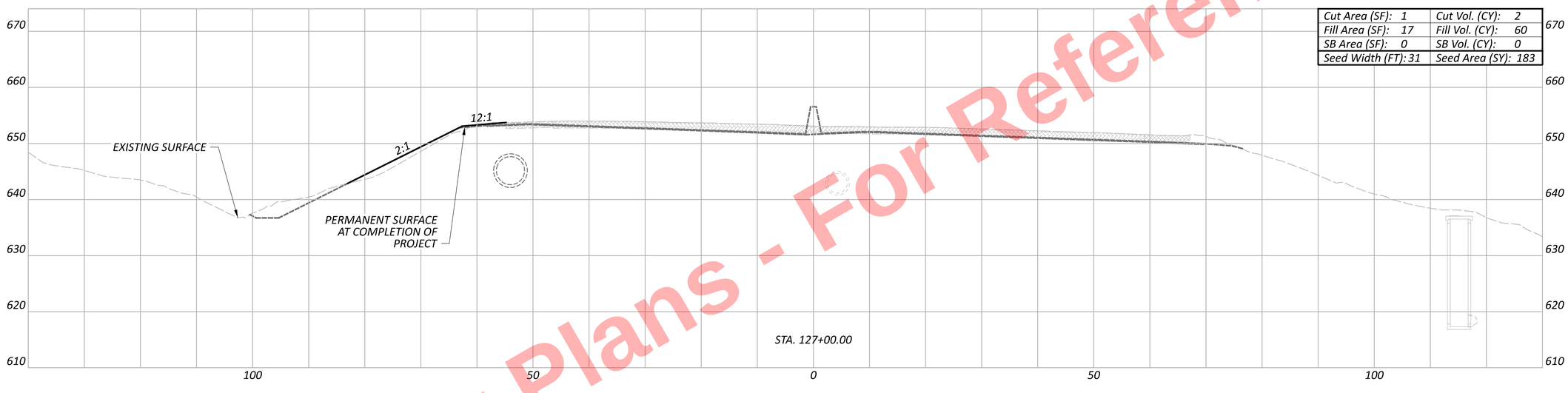
SHEET P.237 TOTAL P.1269

CUY-77-11.41 - PART 1

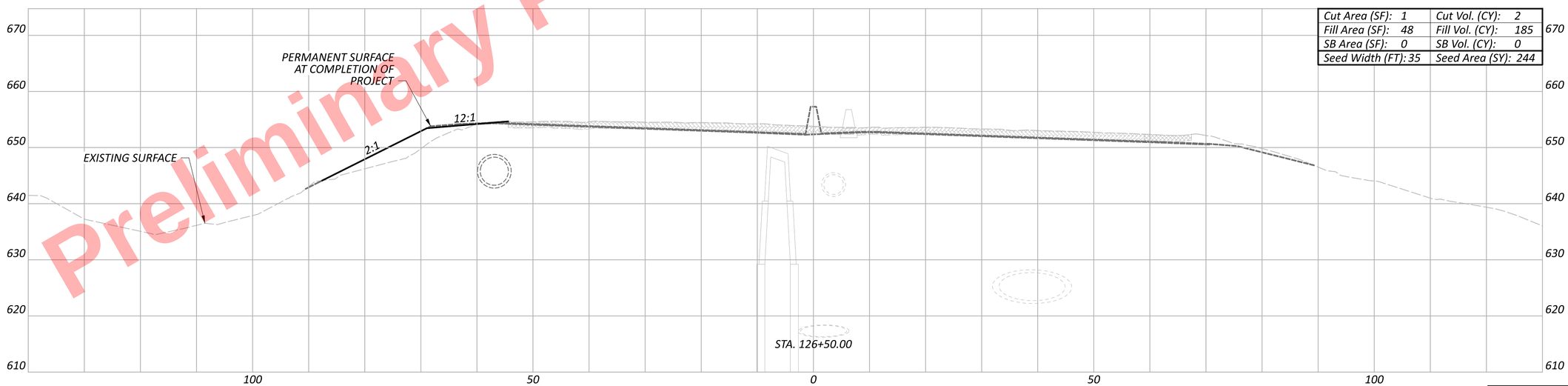
MODEL: TempGrading - 125+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:42:58 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\MOT\Sheets\105743_XS101.dgn



Cut Area (SF):	0	Cut Vol. (CY):	1
Fill Area (SF):	15	Fill Vol. (CY):	30
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	31	Seed Area (SY):	172



Cut Area (SF):	1	Cut Vol. (CY):	2
Fill Area (SF):	17	Fill Vol. (CY):	60
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	31	Seed Area (SY):	183



Cut Area (SF):	1	Cut Vol. (CY):	2
Fill Area (SF):	48	Fill Vol. (CY):	185
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	35	Seed Area (SY):	244

Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 126+50.00 TO STA. 127+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
599	5	275	0

DESIGN AGENCY
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MTR 10/24/25

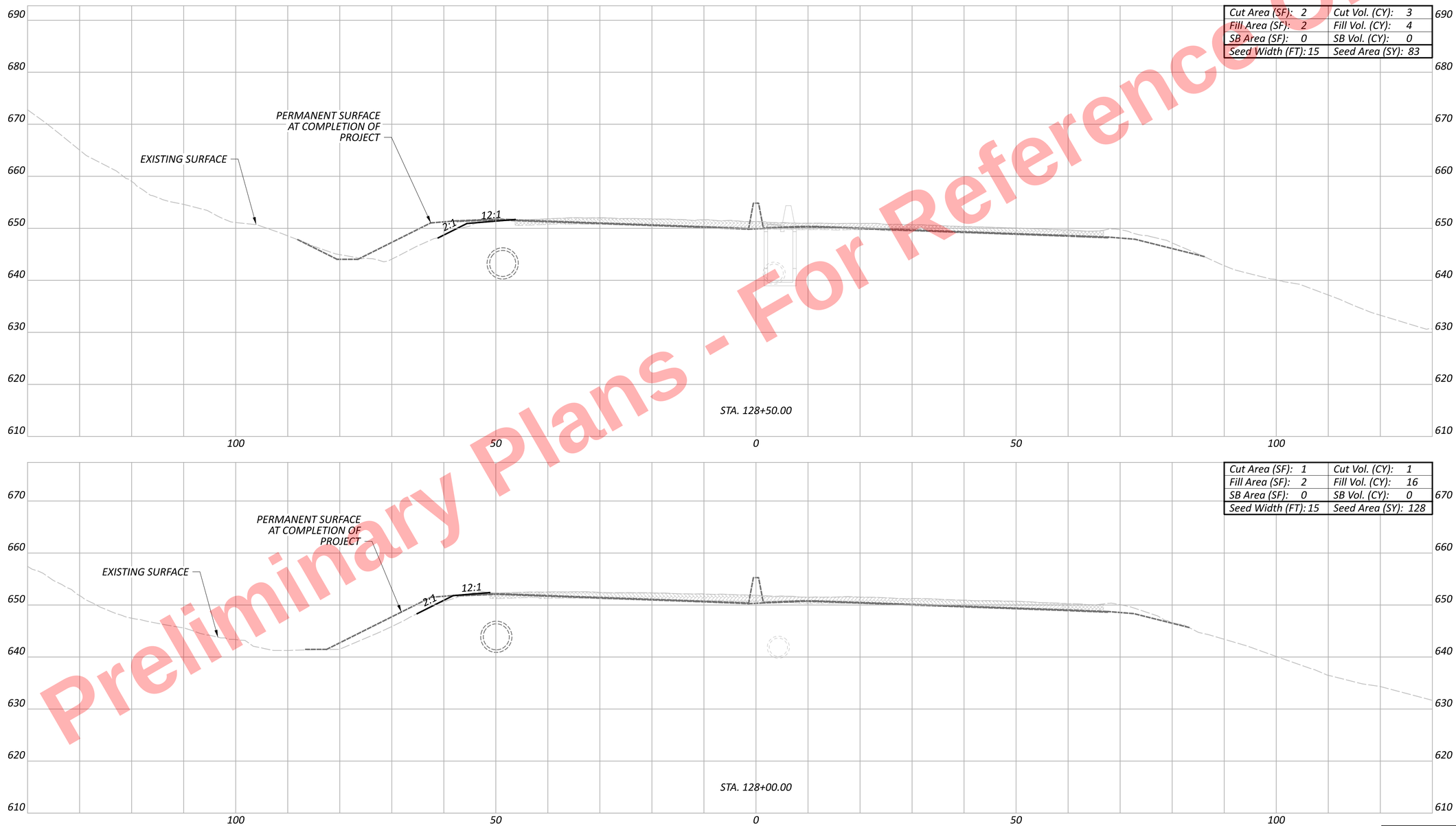
PROJECT ID
105743

SHEET P.238 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 126+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:03 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only



Cut Area (SF):	2	Cut Vol. (CY):	3
Fill Area (SF):	2	Fill Vol. (CY):	4
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	15	Seed Area (SY):	83

Cut Area (SF):	1	Cut Vol. (CY):	1
Fill Area (SF):	2	Fill Vol. (CY):	16
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	15	Seed Area (SY):	128

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
211	4	20	0

MOT CROSS SECTIONS - I.R. 77
STA. 128+00.00 TO STA. 128+50.00

DESIGN AGENCY
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DESIGNER
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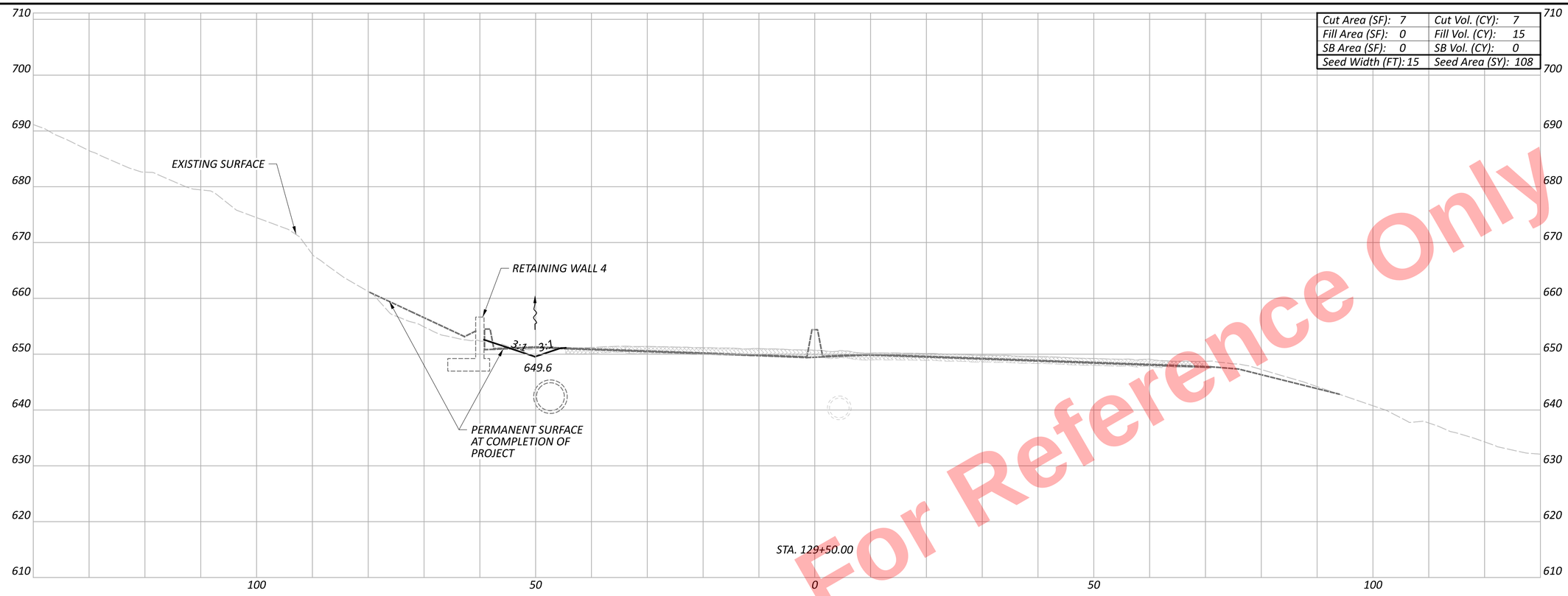
REVIEWER
MTR 10/24/25

PROJECT ID
105743

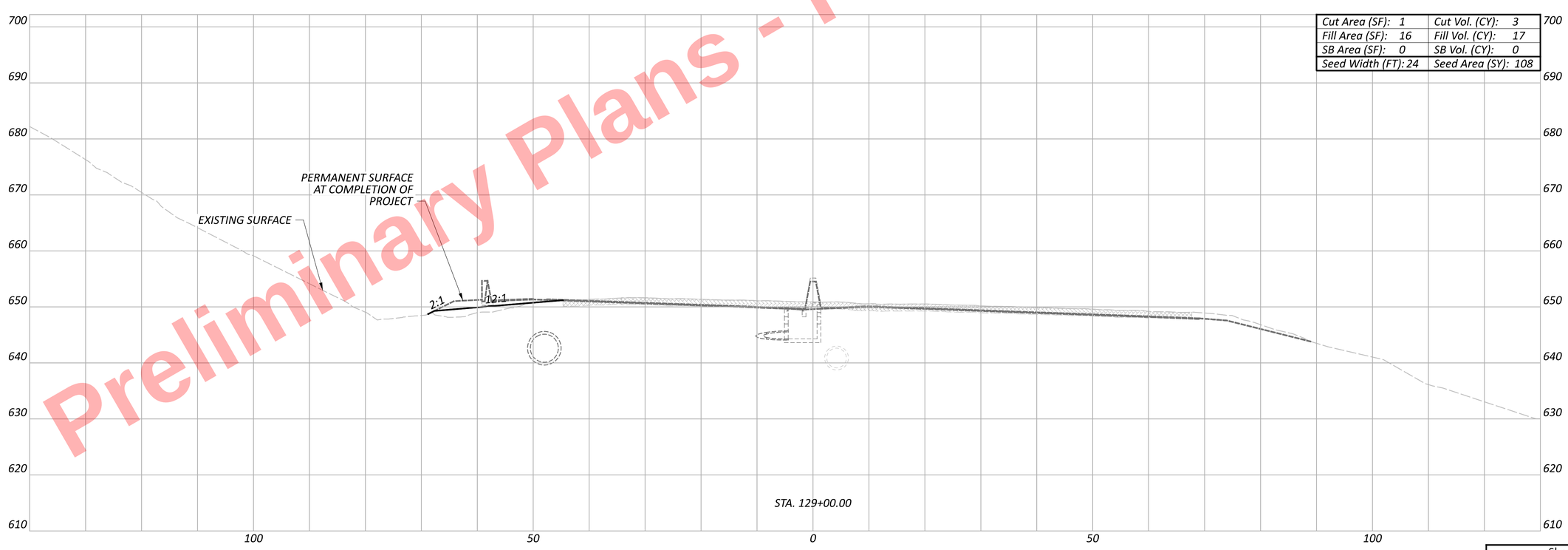
SHEET P.239 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 128+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:08 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn



Cut Area (SF):	7	Cut Vol. (CY):	7
Fill Area (SF):	0	Fill Vol. (CY):	15
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	15	Seed Area (SY):	108



Cut Area (SF):	1	Cut Vol. (CY):	3
Fill Area (SF):	16	Fill Vol. (CY):	17
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	24	Seed Area (SY):	108

Preliminary Plans - Not For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 129+00.00 TO STA. 129+50.00

DESIGN AGENCY
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REVIEWER
MTR 10/24/25

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
216	10	32	0

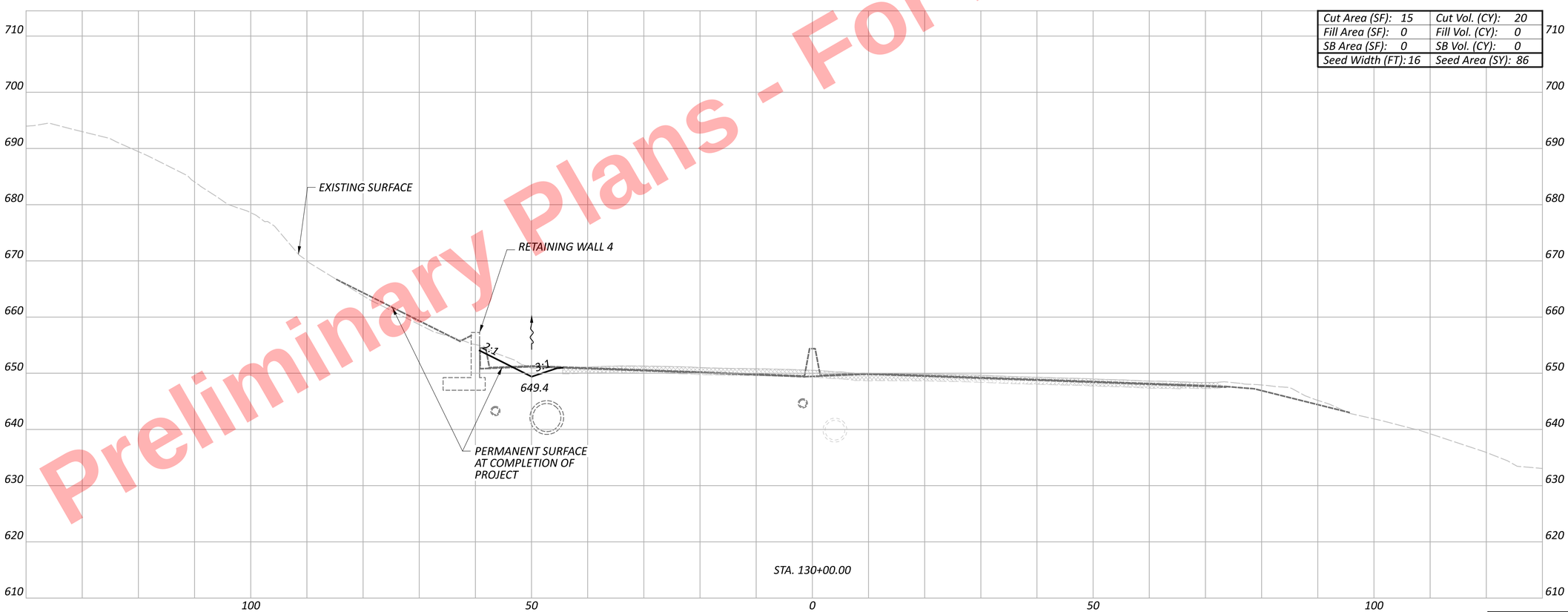
SHEET P.240 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 129+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:11 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\S - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only

Cut Area (SF): 15	Cut Vol. (CY): 20
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 16	Seed Area (SY): 86



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
86	20	0	0

MOT CROSS SECTIONS - I.R. 77
STA. 130+00.00

DESIGN AGENCY
HNTB

DESIGNER
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REVIEWER
MTR 10/24/25

PROJECT ID
105743

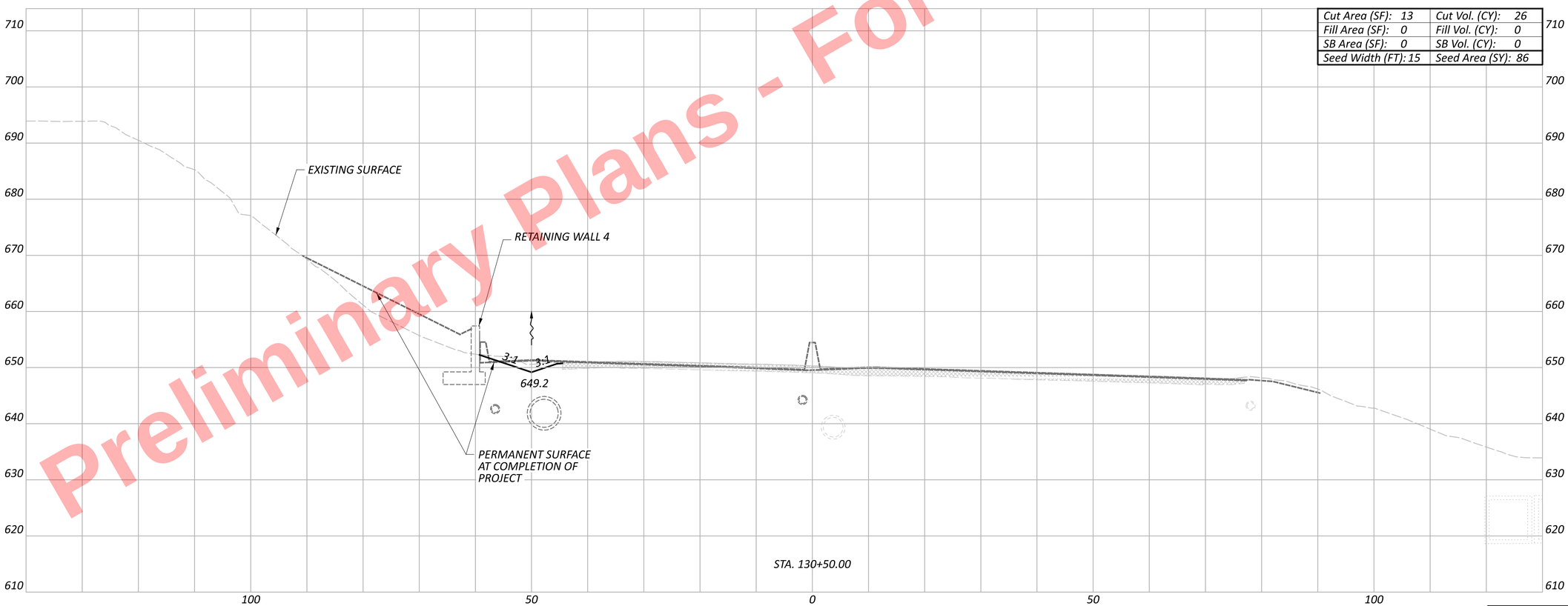
SHEET P.241 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 130+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:14 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only

Cut Area (SF): 13	Cut Vol. (CY): 26
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 15	Seed Area (SY): 86



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
86	26	0	0

MOT CROSS SECTIONS - I.R. 77
STA. 130+50.00

DESIGN AGENCY
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DESIGNER
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MTR 10/24/25

PROJECT ID
105743

SHEET P.242 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 130+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:16 AM USER: kperkins
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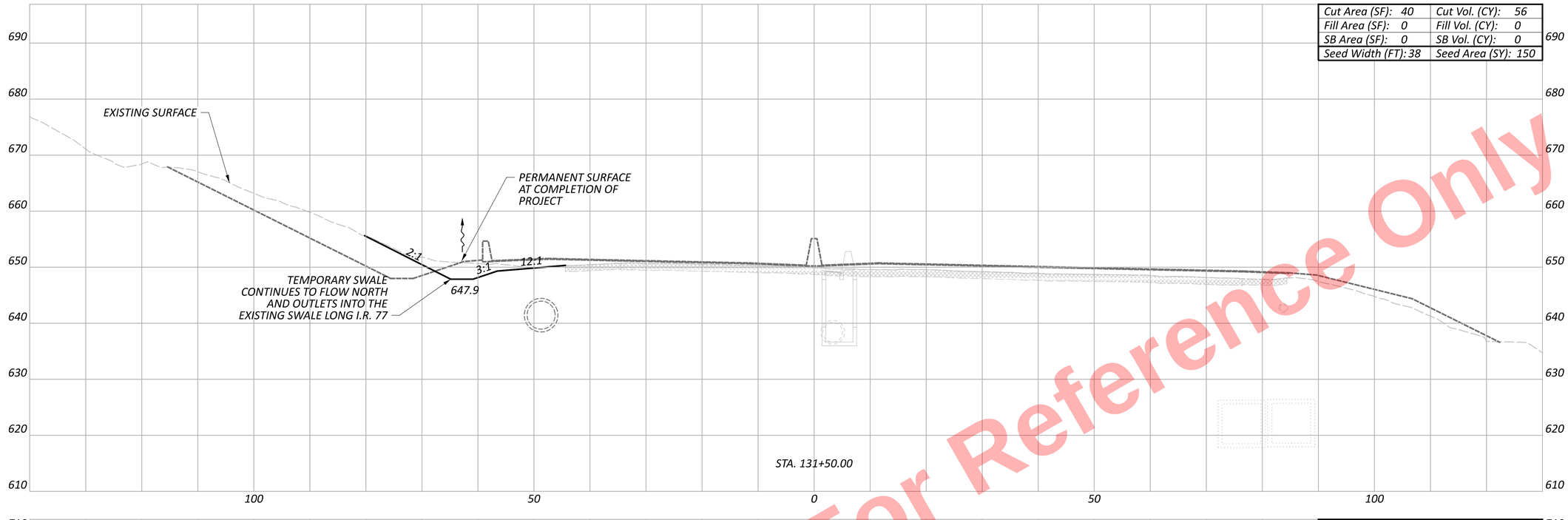


Cut Area (SF): 40	Cut Vol. (CY): 56
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 38	Seed Area (SY): 150

Cut Area (SF): 20	Cut Vol. (CY): 31
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 16	Seed Area (SY): 86

Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 131+00.00 TO STA. 131+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
236	87	0	0

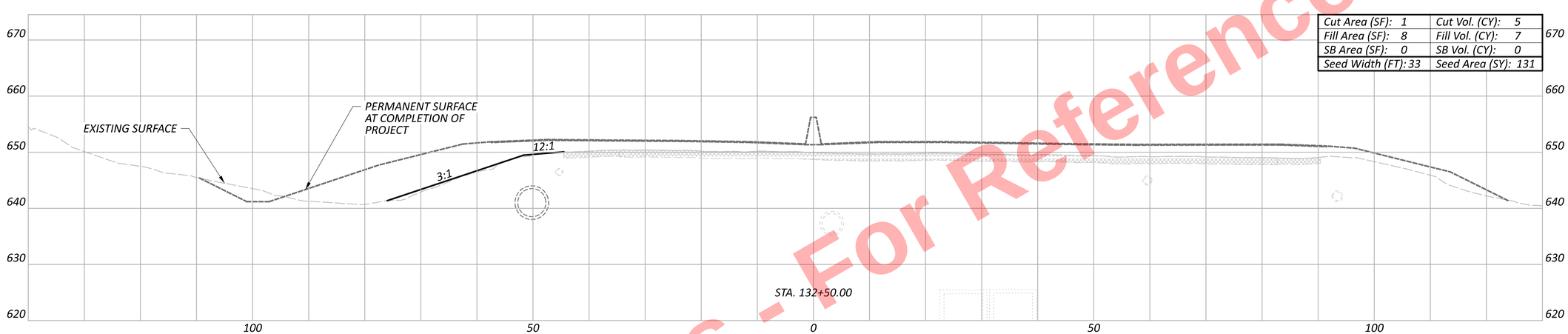
DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER MTR 10/24/25
PROJECT ID 105743
SHEET P.243 TOTAL P.1269

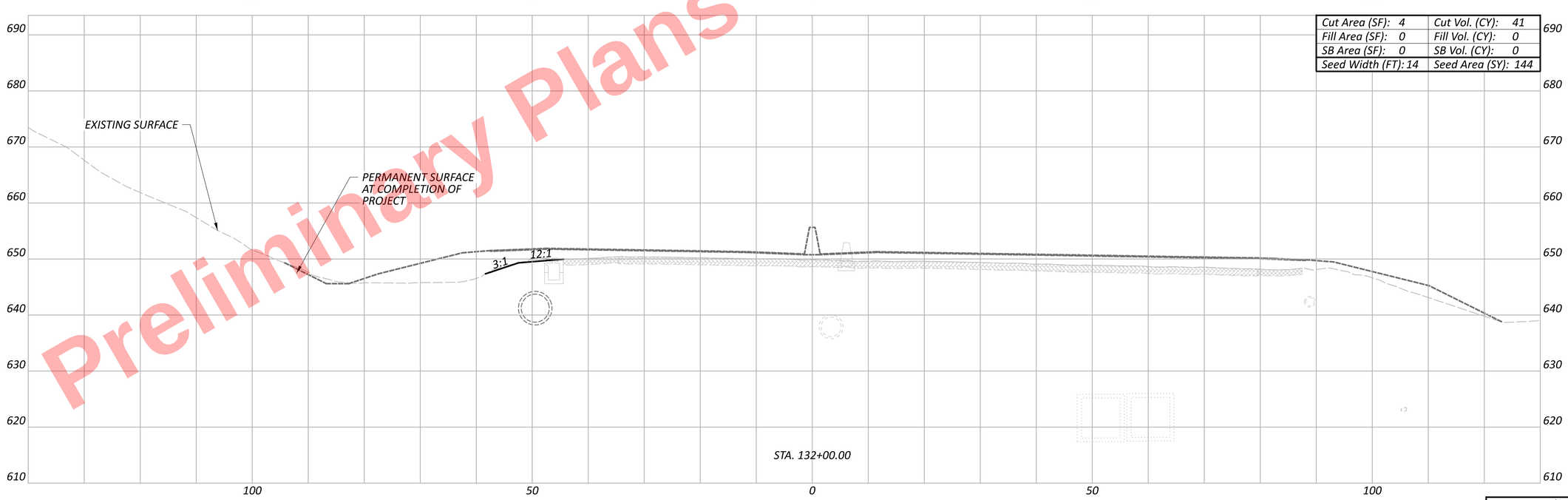
CUY-77-11.41 - PART 1

MODEL: TempGrading - 131+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:18 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only



Cut Area (SF): 1	Cut Vol. (CY): 5
Fill Area (SF): 8	Fill Vol. (CY): 7
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 33	Seed Area (SY): 131



Cut Area (SF): 4	Cut Vol. (CY): 41
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 14	Seed Area (SY): 144

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
275	46	7	0

MOT CROSS SECTIONS - I.R. 77
STA. 132+00.00 TO STA. 132+50.00

DESIGN AGENCY
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MTR 10/24/25

PROJECT ID
105743

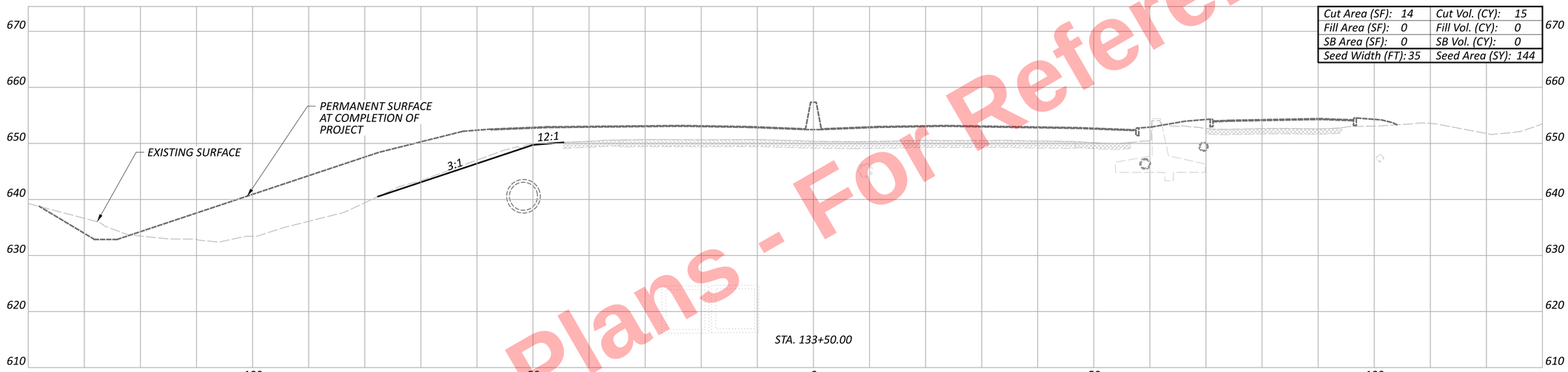
SHEET P.244 | TOTAL P.1269

CUY-77-11.41 - PART 1

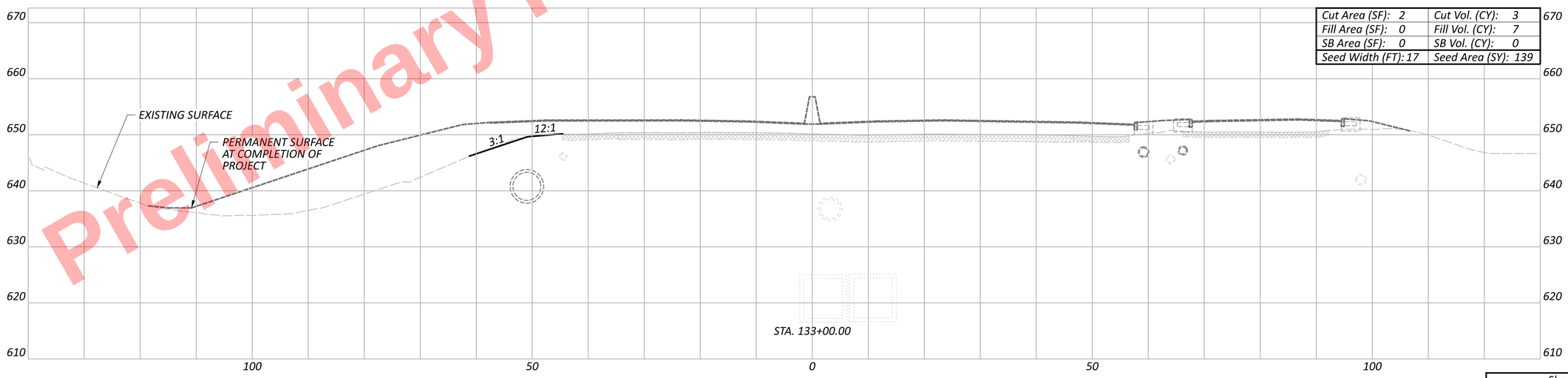
MODEL: TempGrading - 132+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:21 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only

Cut Area (SF): 14	Cut Vol. (CY): 15
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 35	Seed Area (SY): 144



Cut Area (SF): 2	Cut Vol. (CY): 3
Fill Area (SF): 0	Fill Vol. (CY): 7
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 17	Seed Area (SY): 139



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
283	18	7	0

MOT CROSS SECTIONS - I.R. 77
STA. 133+00.00 TO STA. 133+50.00

DESIGN AGENCY
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MTR 10/24/25

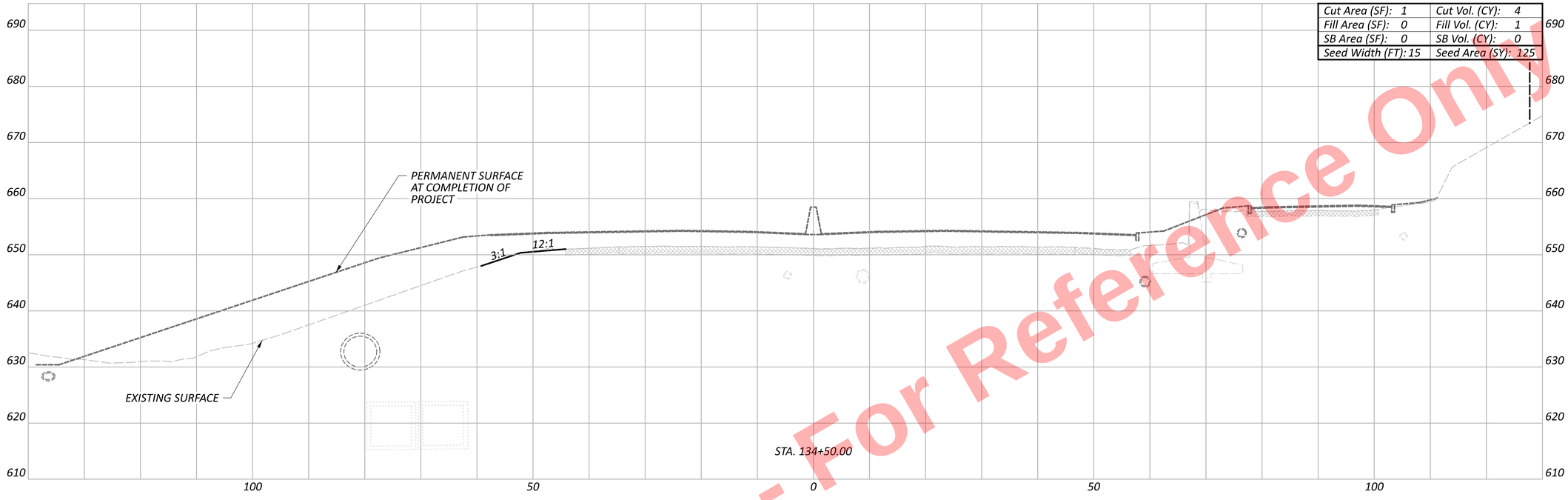
PROJECT ID
105743

SHEET P.245 TOTAL P.1269

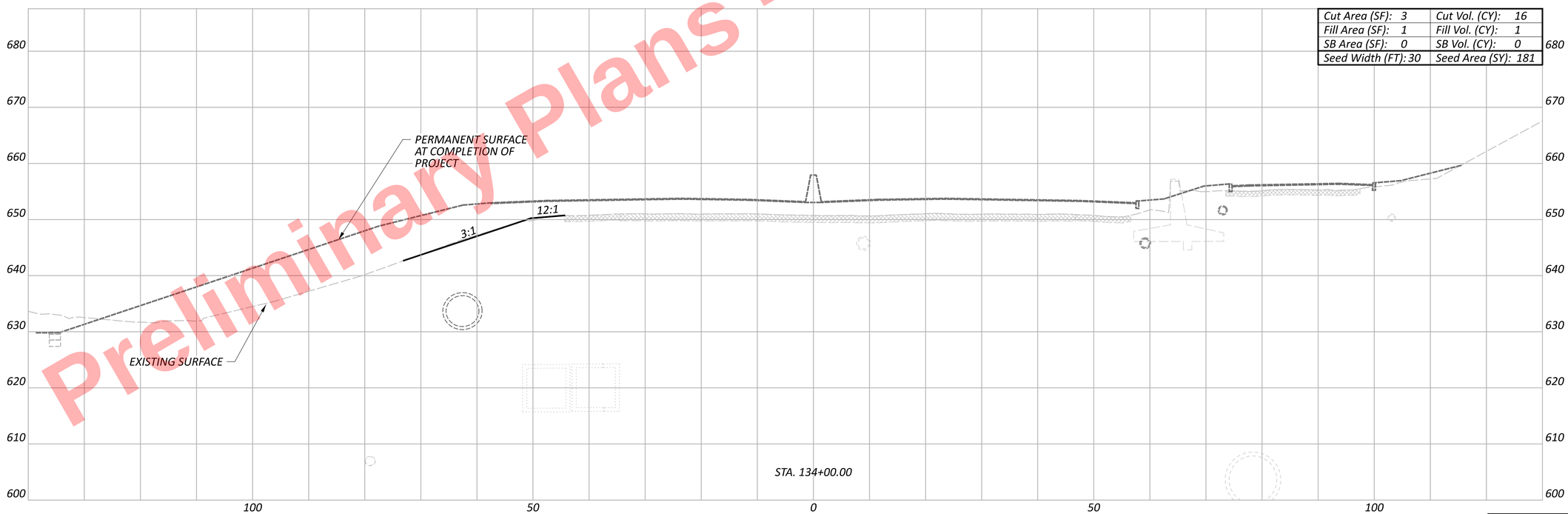
CUY-77-11.41 - PART 1

MODEL: TempGrading - 133+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:24 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

MOT CROSS SECTIONS - I.R. 77
STA. 134+00.00 TO STA. 134+50.00



Cut Area (SF): 1	Cut Vol. (CY): 4
Fill Area (SF): 0	Fill Vol. (CY): 1
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 15	Seed Area (SY): 125



Cut Area (SF): 3	Cut Vol. (CY): 16
Fill Area (SF): 1	Fill Vol. (CY): 1
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 30	Seed Area (SY): 181

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
306	20	2	0

DESIGN AGENCY
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MTR 10/24/25

PROJECT ID
105743

SHEET P.246 | TOTAL P.1269

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: TempGrading - 134+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:28 AM USER: kperkins
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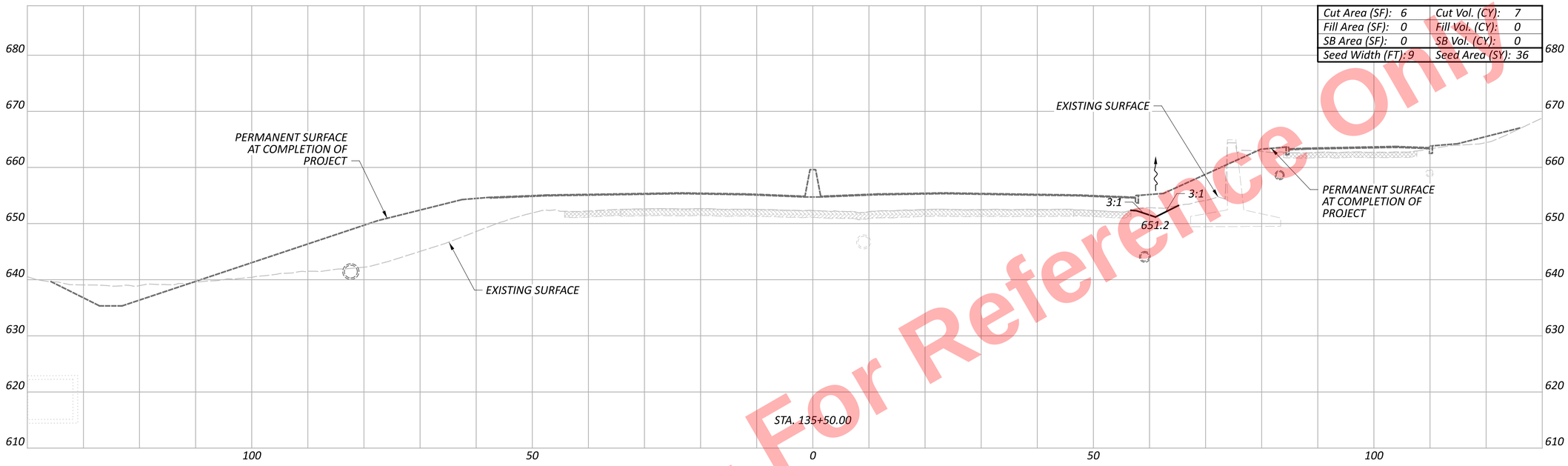

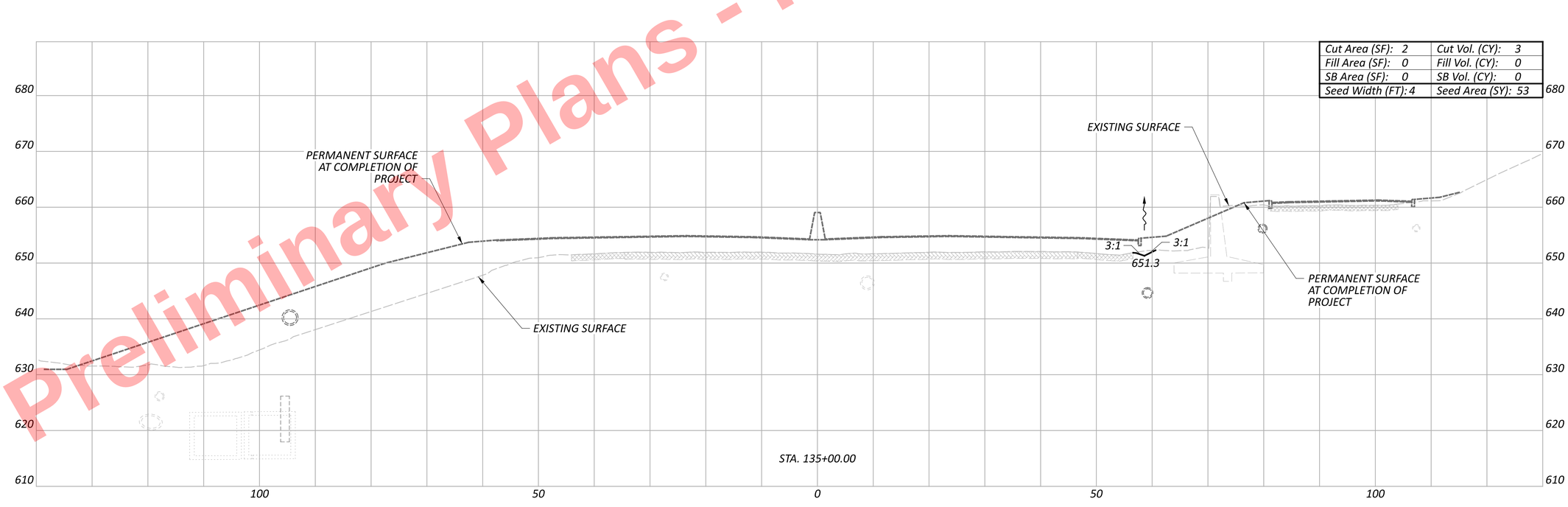

Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 135+00.00 TO STA. 135+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
89	10	0	0

DESIGN AGENCY
HNTB

DESIGNER
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REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.247 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 135+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:32 AM USER: kperkins
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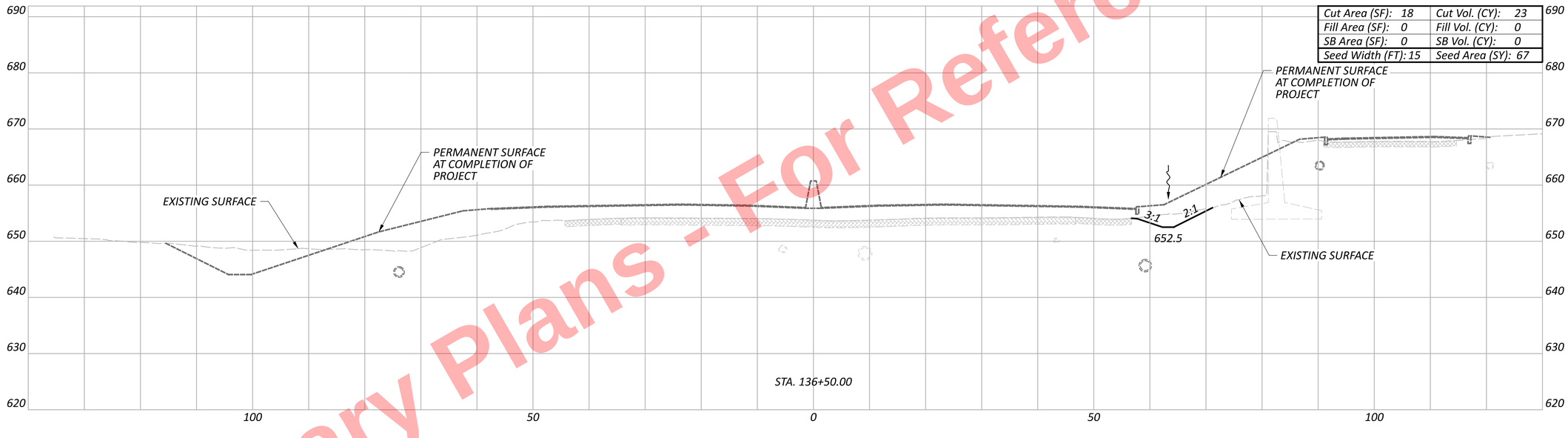
Preliminary Plans - For Reference Only

Cut Area (SF): 18	Cut Vol. (CY): 23
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 15	Seed Area (SY): 67



MOT CROSS SECTIONS - I.R. 77
STA. 136+50.00

CUY-77-11.41 - PART 1

MODEL: TempGrading - 136+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:35 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
117	35	0	0

DESIGN AGENCY
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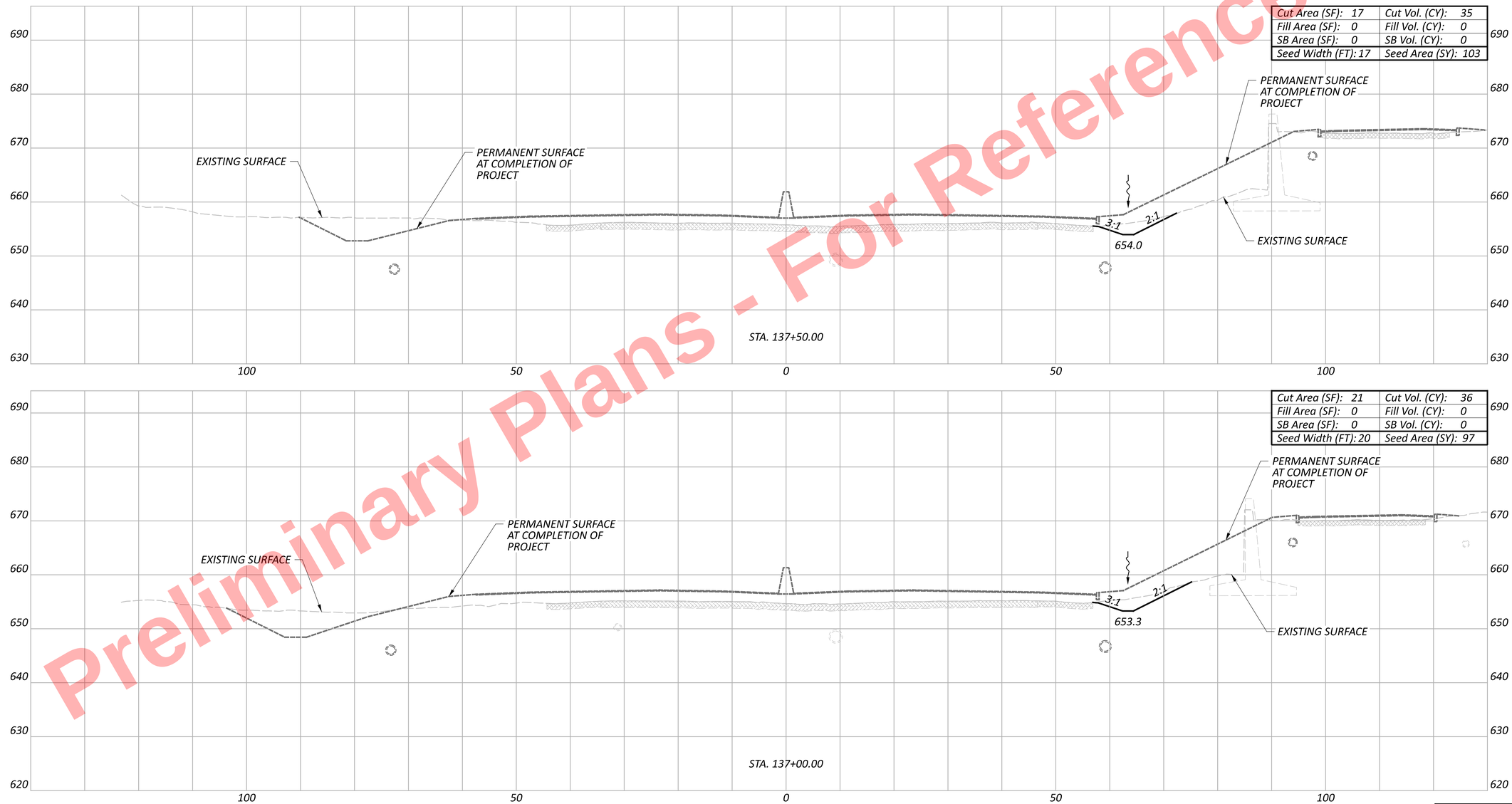
REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.248 TOTAL P.1269

Preliminary Plans - For Reference Only

Cut Area (SF):	17	Cut Vol. (CY):	35
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	17	Seed Area (SY):	103



Cut Area (SF):	21	Cut Vol. (CY):	36
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	20	Seed Area (SY):	97

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
200	71	0	0

MOT CROSS SECTIONS - I.R. 77
STA. 137+00.00 TO STA. 137+50.00

DESIGN AGENCY
HNTB

DESIGNER
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REVIEWER
MTR 10/24/25

PROJECT ID
105743

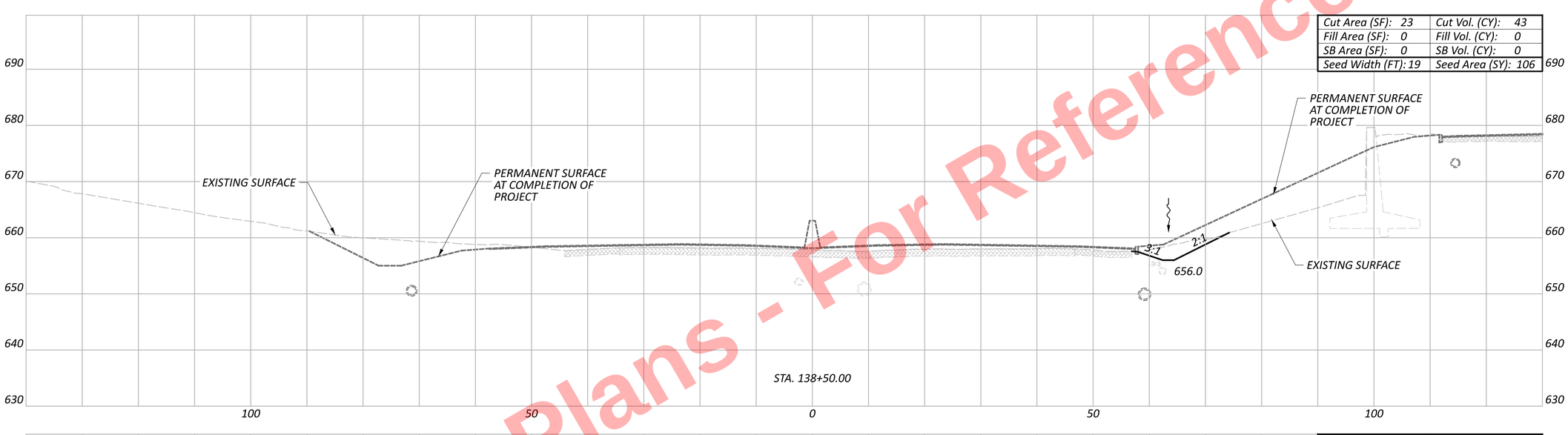
SHEET P.249 | TOTAL P.1269

CUY-77-11.41 - PART 1

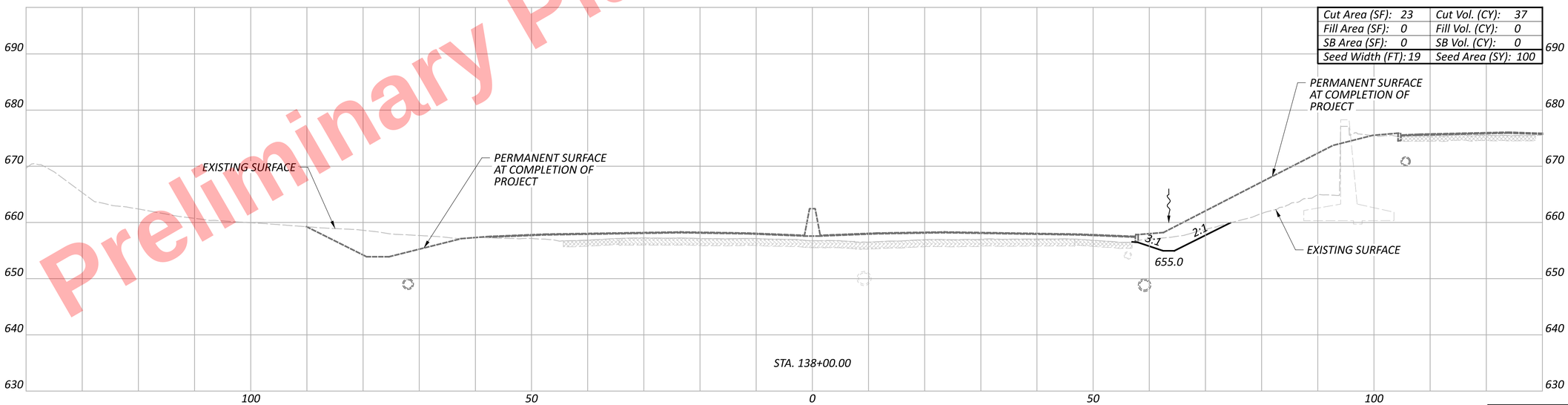
MODEL: TempGrading - 137+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:37 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only

Cut Area (SF): 23	Cut Vol. (CY): 43
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 19	Seed Area (SY): 106



Cut Area (SF): 23	Cut Vol. (CY): 37
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 19	Seed Area (SY): 100



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
206	80	0	0

MOT CROSS SECTIONS - I.R. 77
STA. 138+00.00 TO STA. 138+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

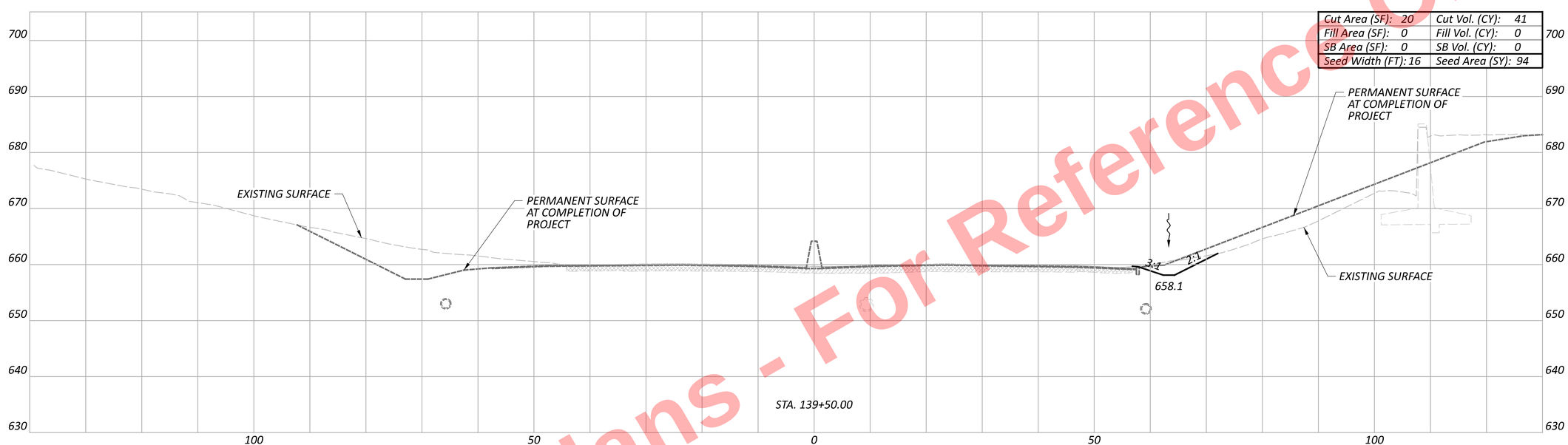
SHEET P.250 TOTAL P.1269

CUY-77-11.41 - PART 1

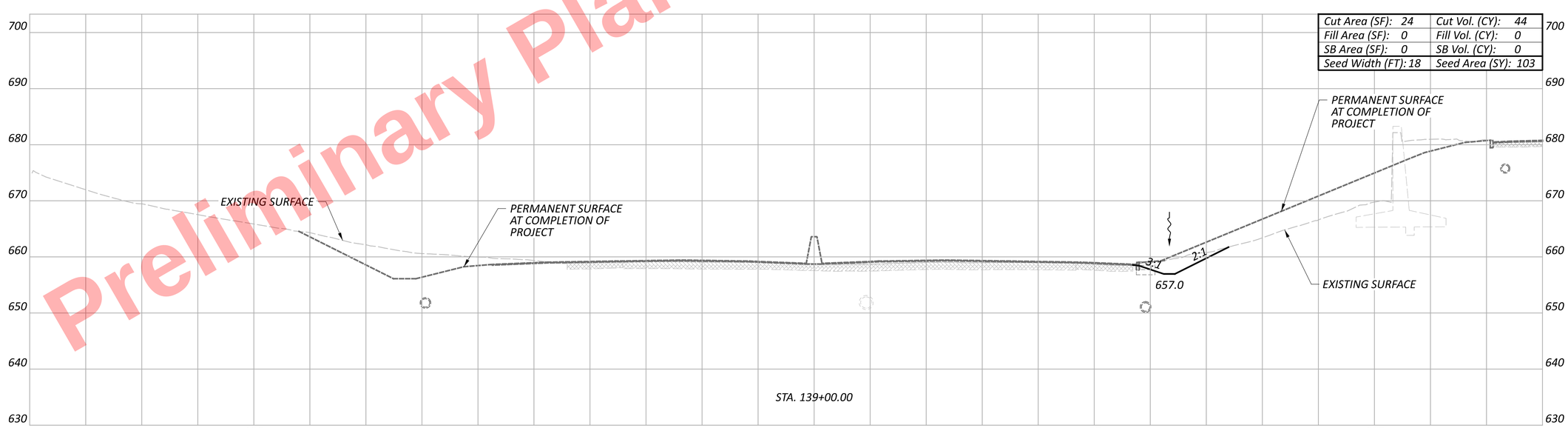
MODEL: TempGrading - 138+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:41 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only

Cut Area (SF): 20	Cut Vol. (CY): 41
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 16	Seed Area (SY): 94



Cut Area (SF): 24	Cut Vol. (CY): 44
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 18	Seed Area (SY): 103



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
197	85	0	0

MOT CROSS SECTIONS - I.R. 77
STA. 139+00.00 TO STA. 139+50.00

DESIGN AGENCY
HNTB

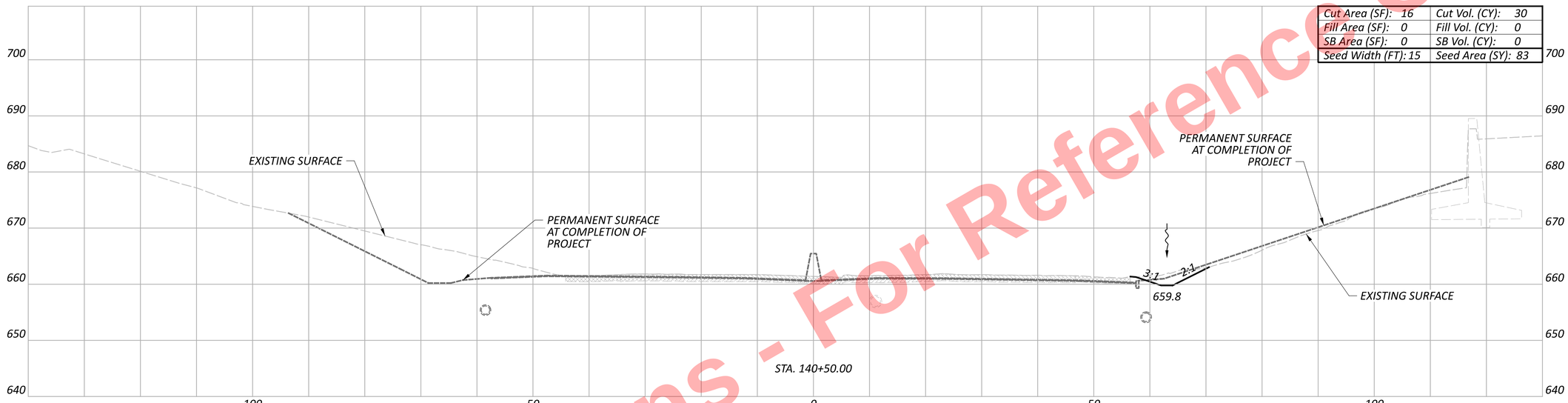
DESIGNER AS
REVIEWER MTR 10/24/25
PROJECT ID 105743
SHEET P.251 TOTAL P.1269

CUY-77-11.41 - PART 1

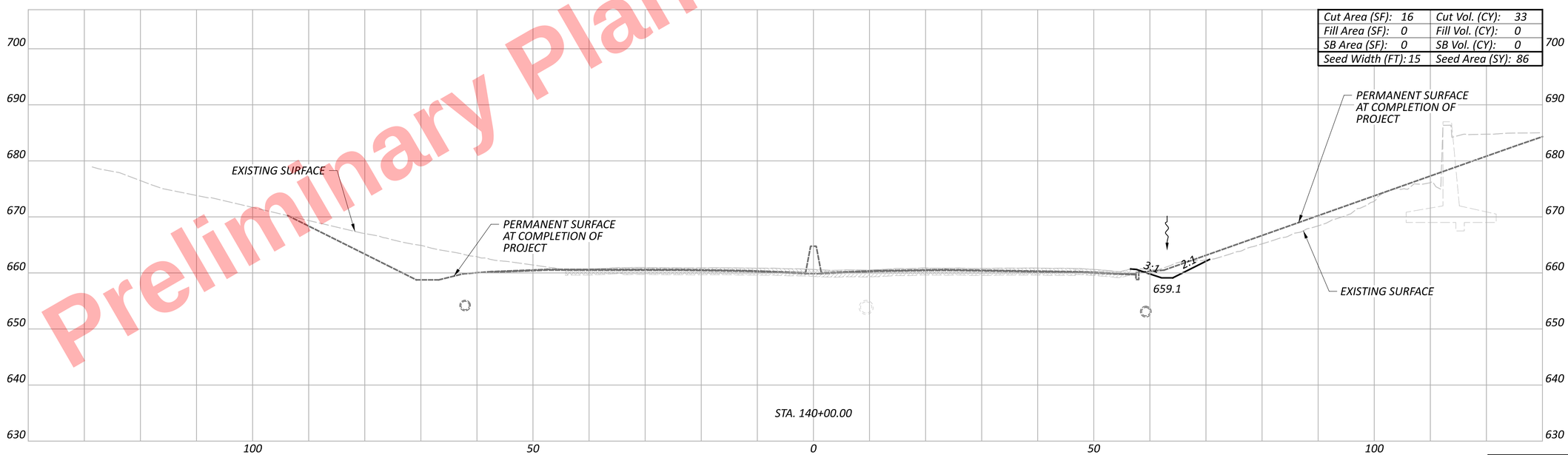
MODEL: TempGrading - 139+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:45 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only

Cut Area (SF):	16	Cut Vol. (CY):	30
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	15	Seed Area (SY):	83



Cut Area (SF):	16	Cut Vol. (CY):	33
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	15	Seed Area (SY):	86



MOT CROSS SECTIONS - I.R. 77
STA. 140+00.00 TO STA. 140+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

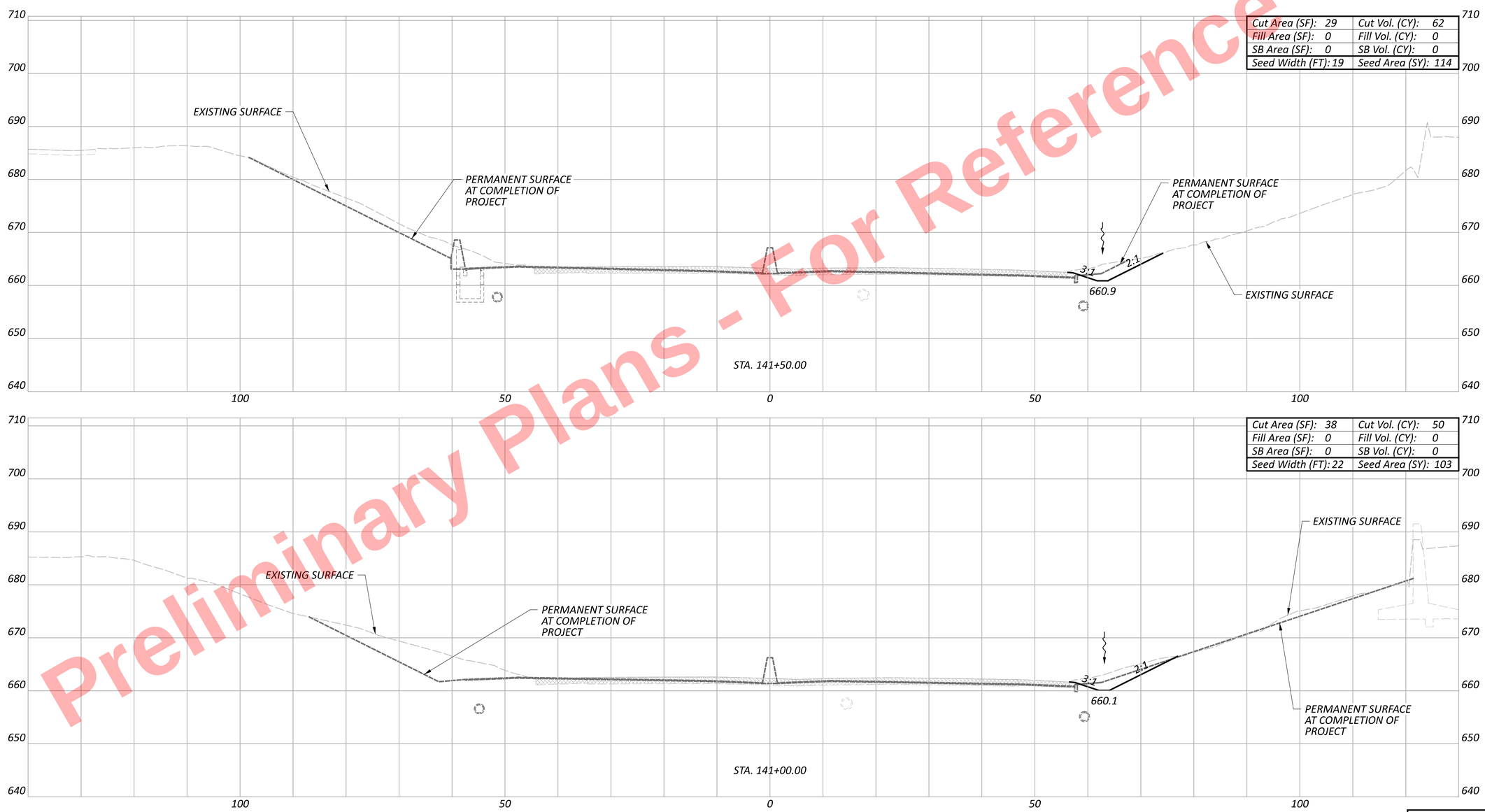
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
169	63	0	0

SHEET P.252 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 140+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:48 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\S - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only



Cut Area (SF):	29	Cut Vol. (CY):	62
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	19	Seed Area (SY):	114

Cut Area (SF):	38	Cut Vol. (CY):	50
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	22	Seed Area (SY):	103

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
217	112	0	0

MOT CROSS SECTIONS - I.R. 77
STA. 141+00.00 TO STA. 141+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

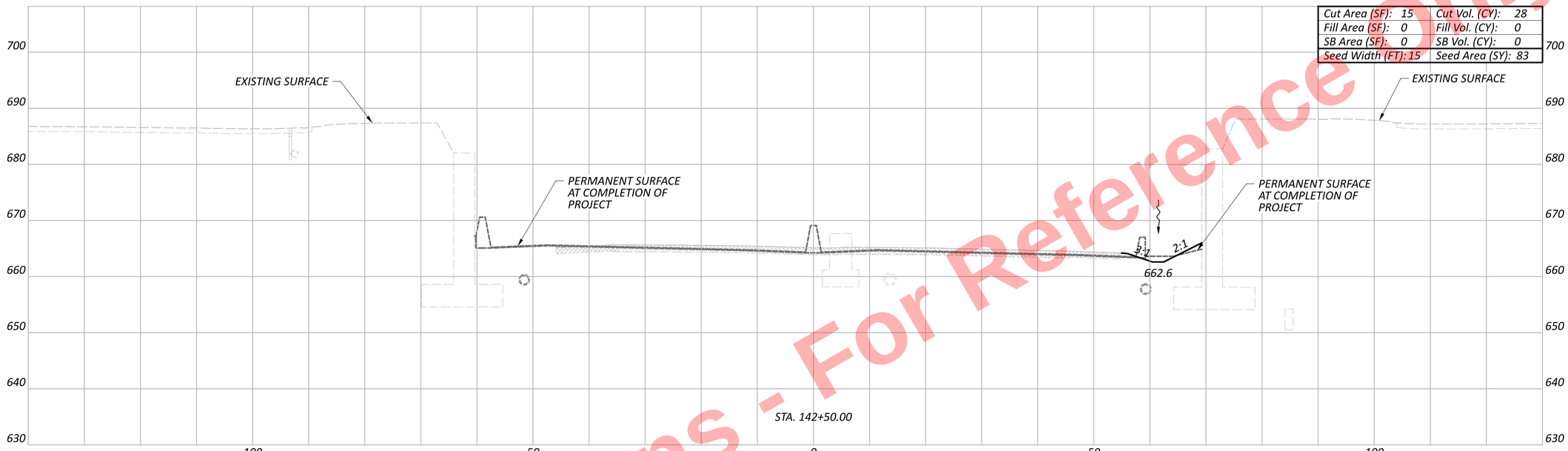
SHEET P.253 | TOTAL P.1269

CUY-77-11.41 - PART 1

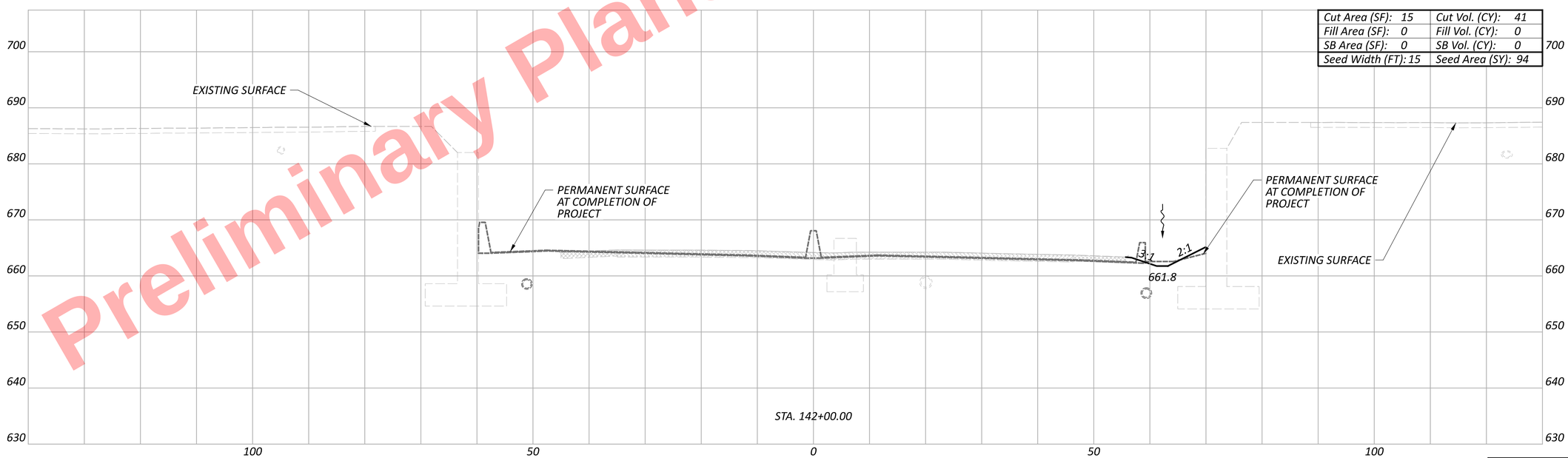
MODEL: TempGrading - 141+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:50 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only

Cut Area (SF):	15	Cut Vol. (CY):	28
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	15	Seed Area (SY):	83



Cut Area (SF):	15	Cut Vol. (CY):	41
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	15	Seed Area (SY):	94



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
177	69	0	0

CUY-77-11.41 - PART 1

MODEL: TempGrading - 142+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:53 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

MOT CROSS SECTIONS - I.R. 77
STA. 142+00.00 TO STA. 142+50.00

DESIGN AGENCY
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DESIGNER
AS

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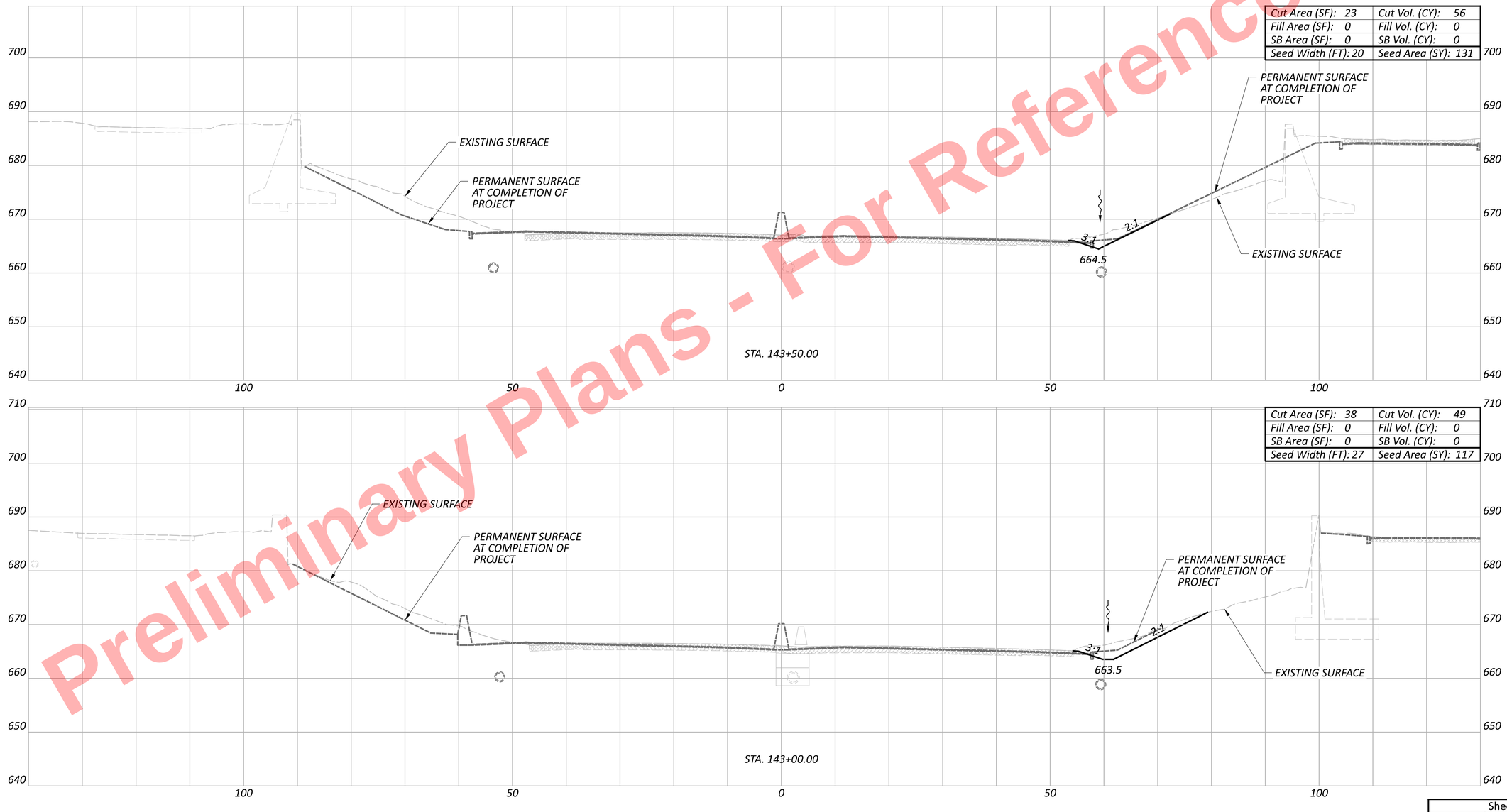
MTR 10/24/25

PROJECT ID
105743

SHEET P.254 | TOTAL P.1269

Preliminary Plans - For Reference Only



Cut Area (SF):	23	Cut Vol. (CY):	56
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	20	Seed Area (SY):	131

Cut Area (SF):	38	Cut Vol. (CY):	49
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	27	Seed Area (SY):	117

MOT CROSS SECTIONS - I.R. 77
STA. 143+00.00 TO STA. 143+50.00

DESIGN AGENCY
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REVIEWER
MTR 10/24/25

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
248	105	0	0

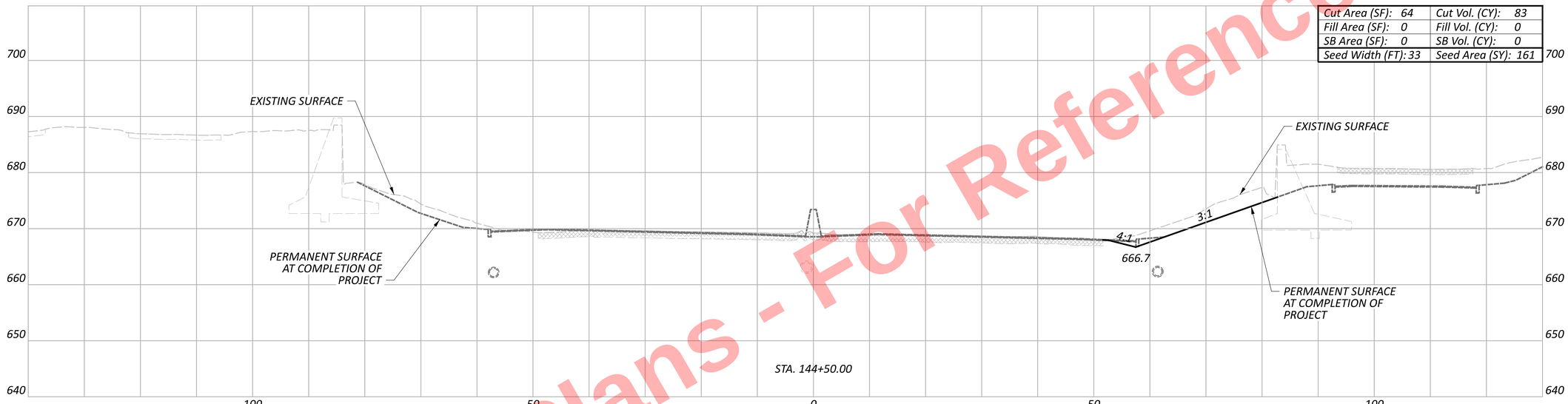
SHEET P.255 | TOTAL P.1269

CUY-77-11.41 - PART 1

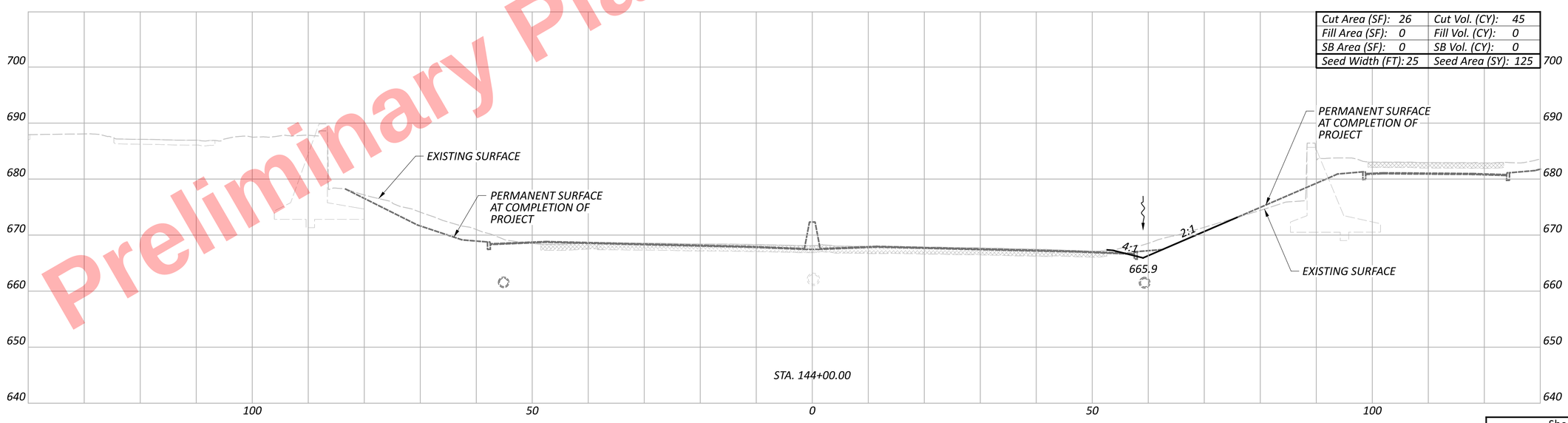
MODEL: TempGrading - 143+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:56 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only

Cut Area (SF): 64	Cut Vol. (CY): 83
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 33	Seed Area (SY): 161



Cut Area (SF): 26	Cut Vol. (CY): 45
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 25	Seed Area (SY): 125



MOT CROSS SECTIONS - I.R. 77
STA. 144+00.00 TO STA. 144+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
286	128	0	0

DESIGN AGENCY
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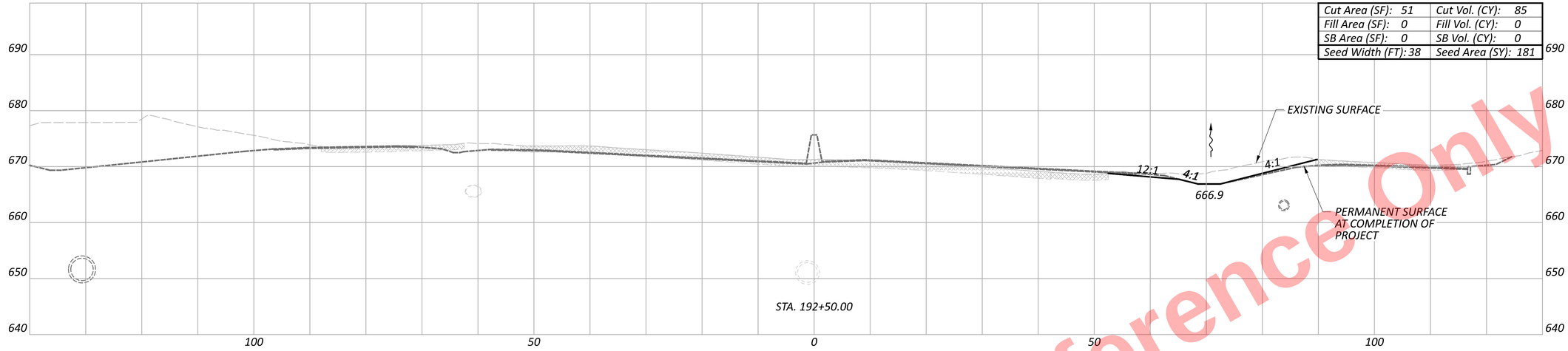
MTR 10/24/25

PROJECT ID
105743

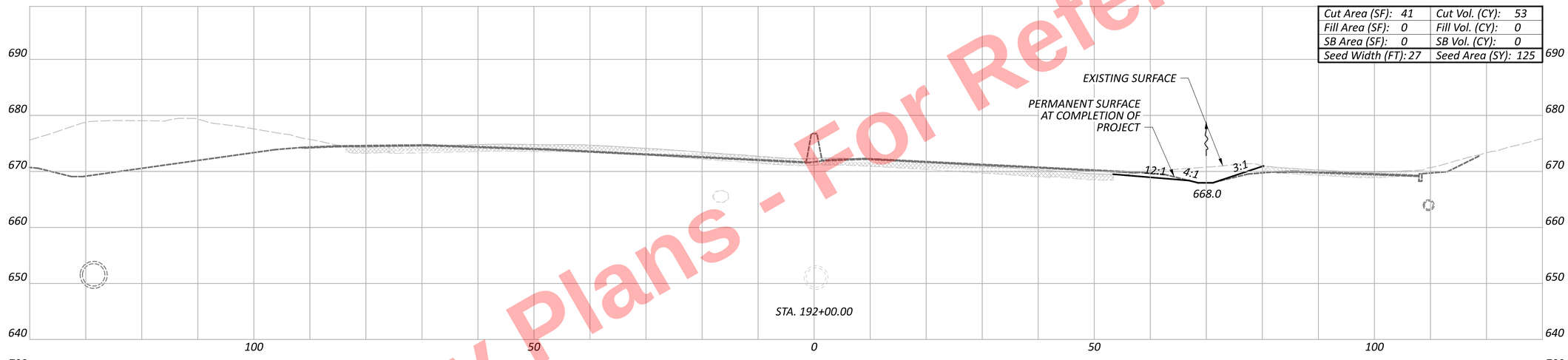
SHEET P.256 TOTAL P.1269

CUY-77-11.41 - PART 1

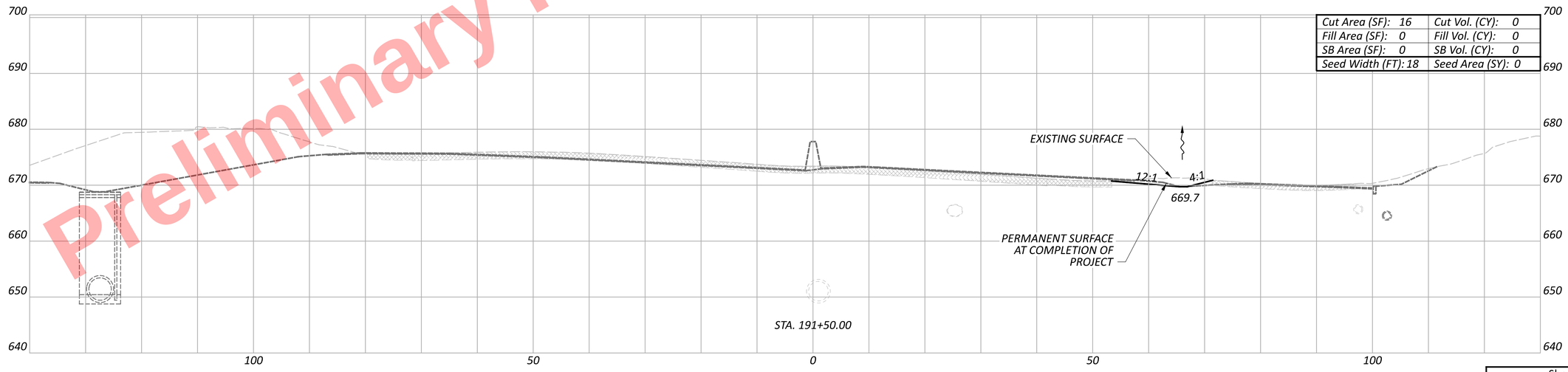
MODEL: TempGrading - 144+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:59 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\MOT\Sheets\105743_XS101.dgn



Cut Area (SF):	51	Cut Vol. (CY):	85
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	38	Seed Area (SY):	181



Cut Area (SF):	41	Cut Vol. (CY):	53
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	27	Seed Area (SY):	125



Cut Area (SF):	16	Cut Vol. (CY):	0
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	18	Seed Area (SY):	0

Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 191+50.00 TO STA. 192+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
306	138	0	0

DESIGN AGENCY
HNTB

DESIGNER
AS

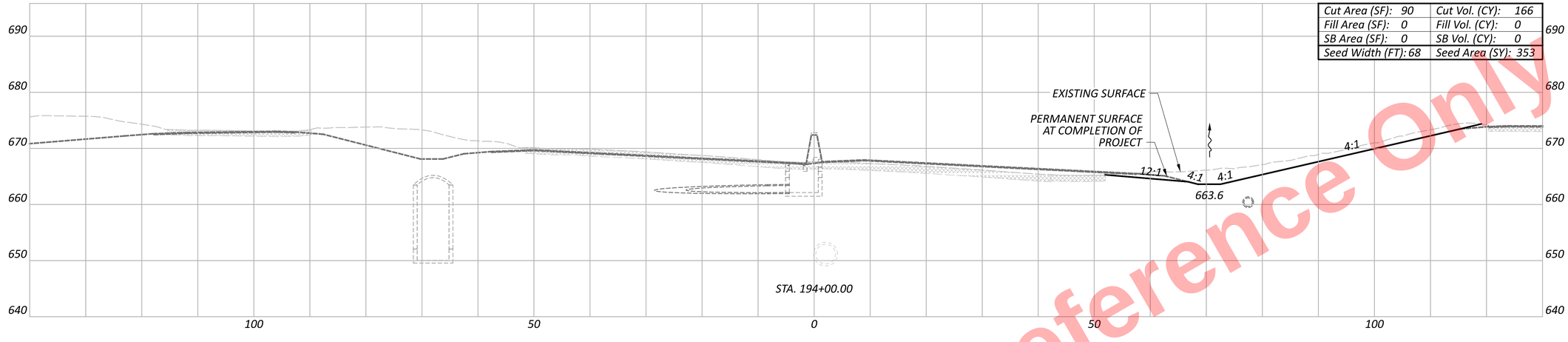
REVIEWER
MTR 10/24/25

PROJECT ID
105743

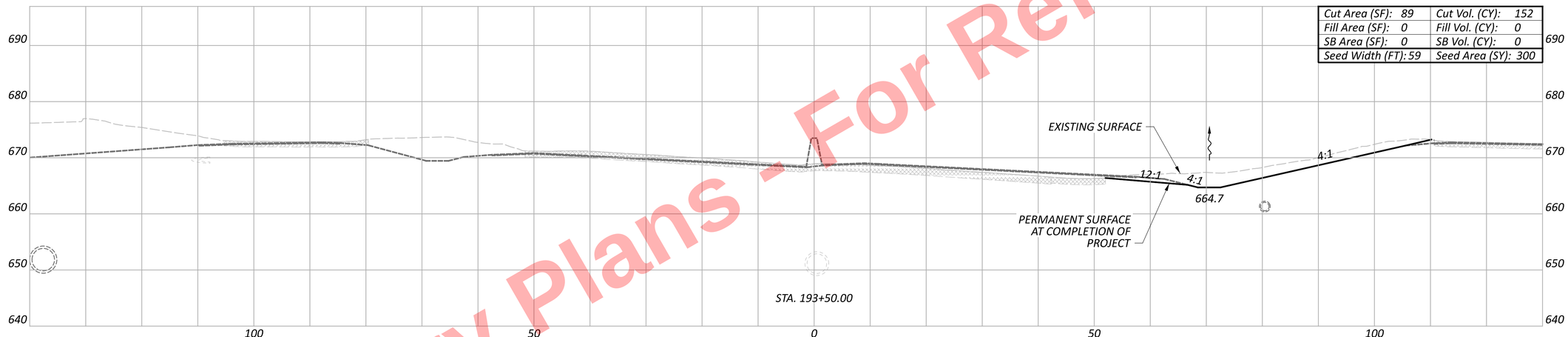
SHEET P.257 TOTAL P.1269

CUY-77-11.41 - PART 1

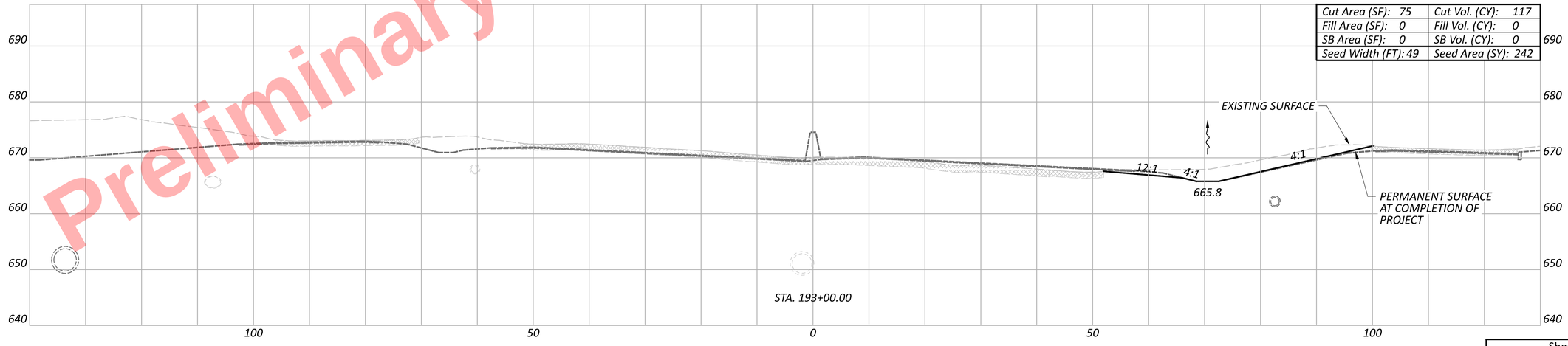
MODEL: TempGrading - 191+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:02 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn



Cut Area (SF):	90	Cut Vol. (CY):	166
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	68	Seed Area (SY):	353



Cut Area (SF):	89	Cut Vol. (CY):	152
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	59	Seed Area (SY):	300



Cut Area (SF):	75	Cut Vol. (CY):	117
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	49	Seed Area (SY):	242

Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 193+00.00 TO STA. 194+00.00

DESIGN AGENCY
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DESIGNER
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REVIEWER
MTR 10/24/25

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
895	435	0	0

SHEET	TOTAL
P.258	P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 193+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:10 AM USER: kperkins
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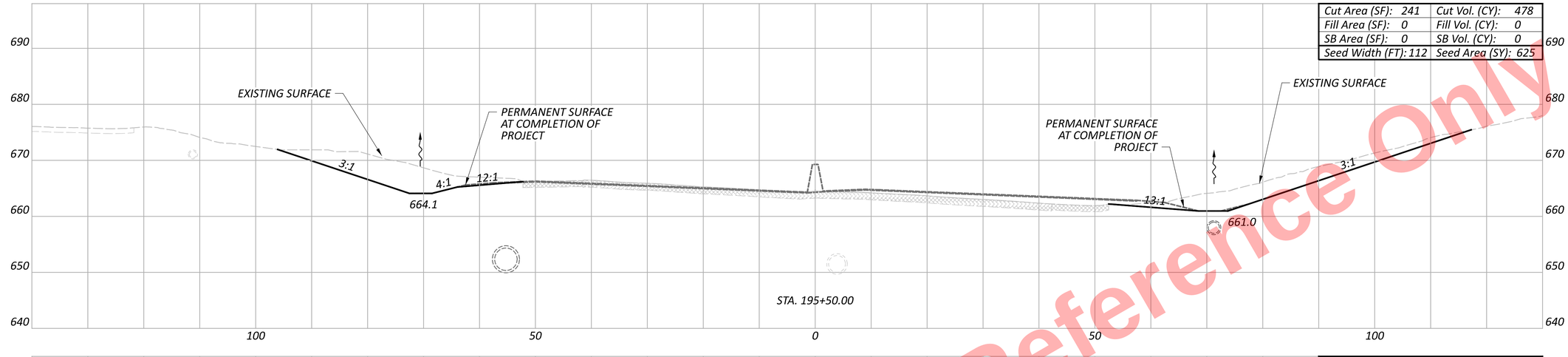
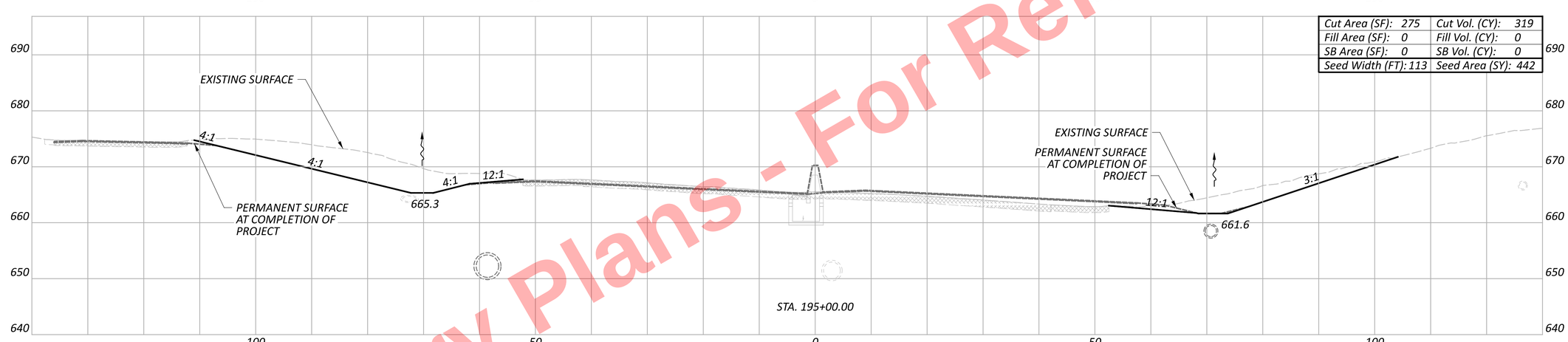
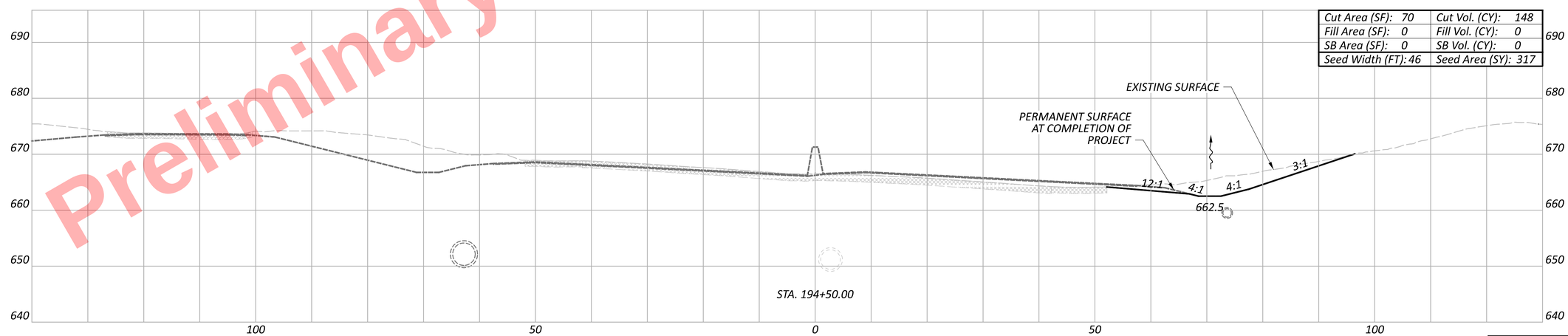


Cut Area (SF): 241	Cut Vol. (CY): 478
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 112	Seed Area (SY): 625



Cut Area (SF): 275	Cut Vol. (CY): 319
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 113	Seed Area (SY): 442



Cut Area (SF): 70	Cut Vol. (CY): 148
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 46	Seed Area (SY): 317

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1384	945	0	0

Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 194+50.00 TO STA. 195+50.00

DESIGN AGENCY
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DESIGNER
AS

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MTR 10/24/25

PROJECT ID
105743

SHEET P.259 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 194+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:13 AM USER: kperkins
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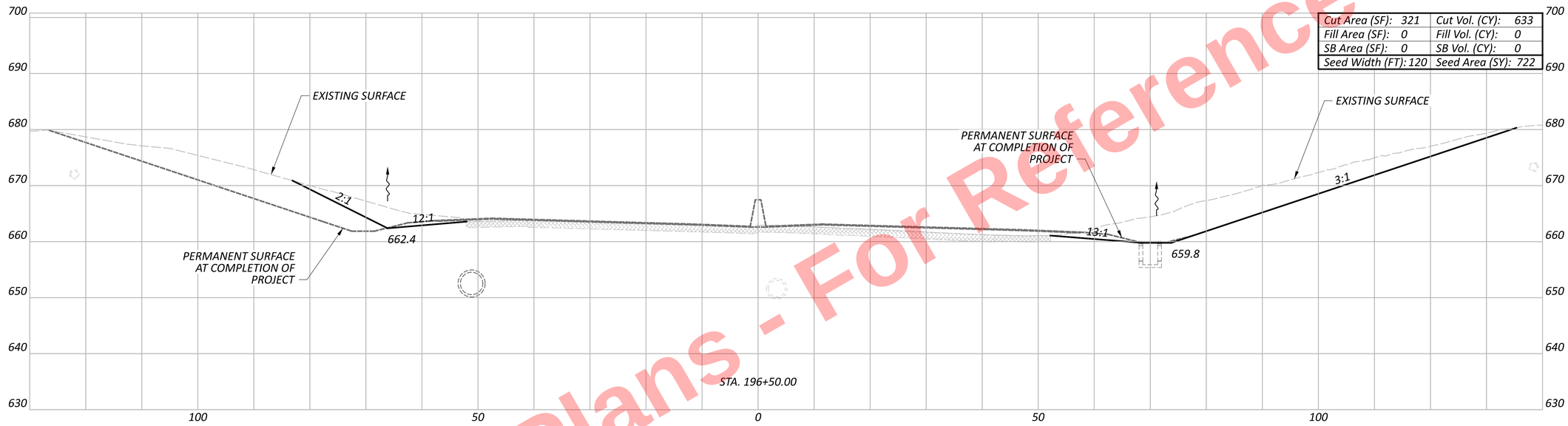
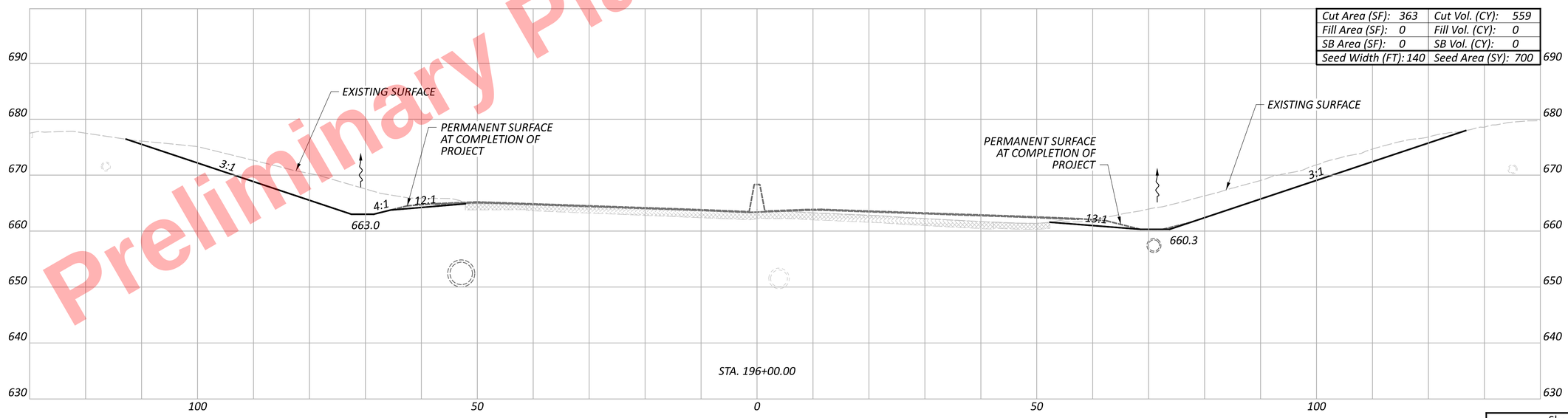
Preliminary Plans - Not For Reference Only



Cut Area (SF):	321	Cut Vol. (CY):	633
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	120	Seed Area (SY):	722



Cut Area (SF):	363	Cut Vol. (CY):	559
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	140	Seed Area (SY):	700

MOT CROSS SECTIONS - I.R. 77
STA. 196+00.00 TO STA. 196+50.00

DESIGN AGENCY
HNTB

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AS

REVIEWER
MTR 10/24/25

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1422	1192	0	0

SHEET P.260 TOTAL P.1269

CUY-77-11.41 - PART 1

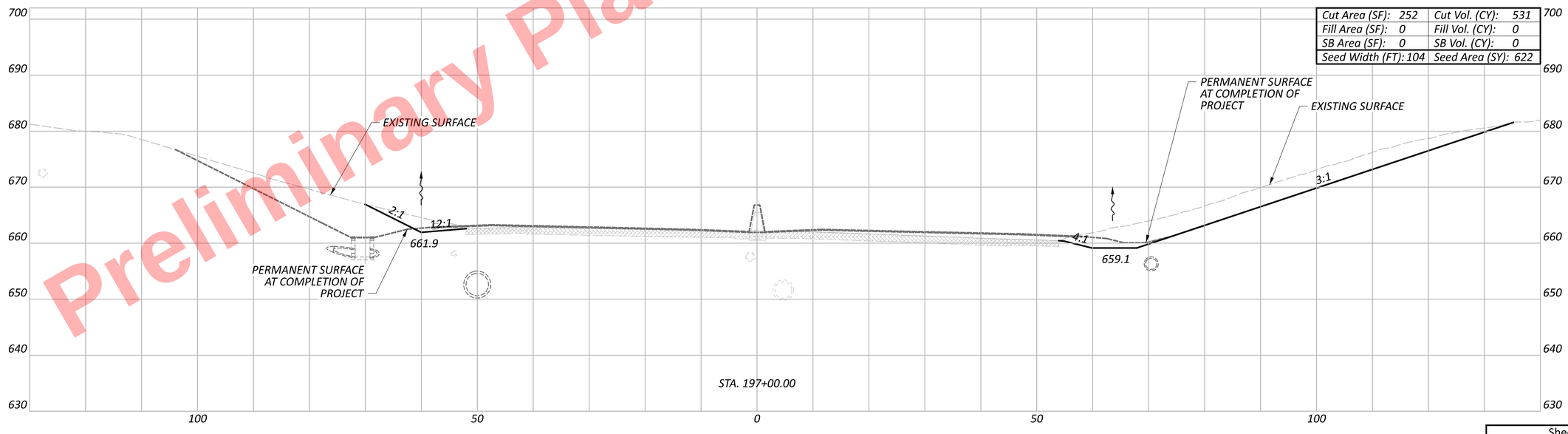
MODEL: TempGrading - 196+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:16 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\S - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\40D-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: TempGrading - 197+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:18 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\40D-Engineering\MOT\Sheets\105743_XS101.dgn

MOT CROSS SECTIONS - I.R. 77
STA. 197+00.00



Cut Area (SF):	252	Cut Vol. (CY):	531
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	104	Seed Area (SY):	622

DESIGN AGENCY
HNTB

DESIGNER
AS

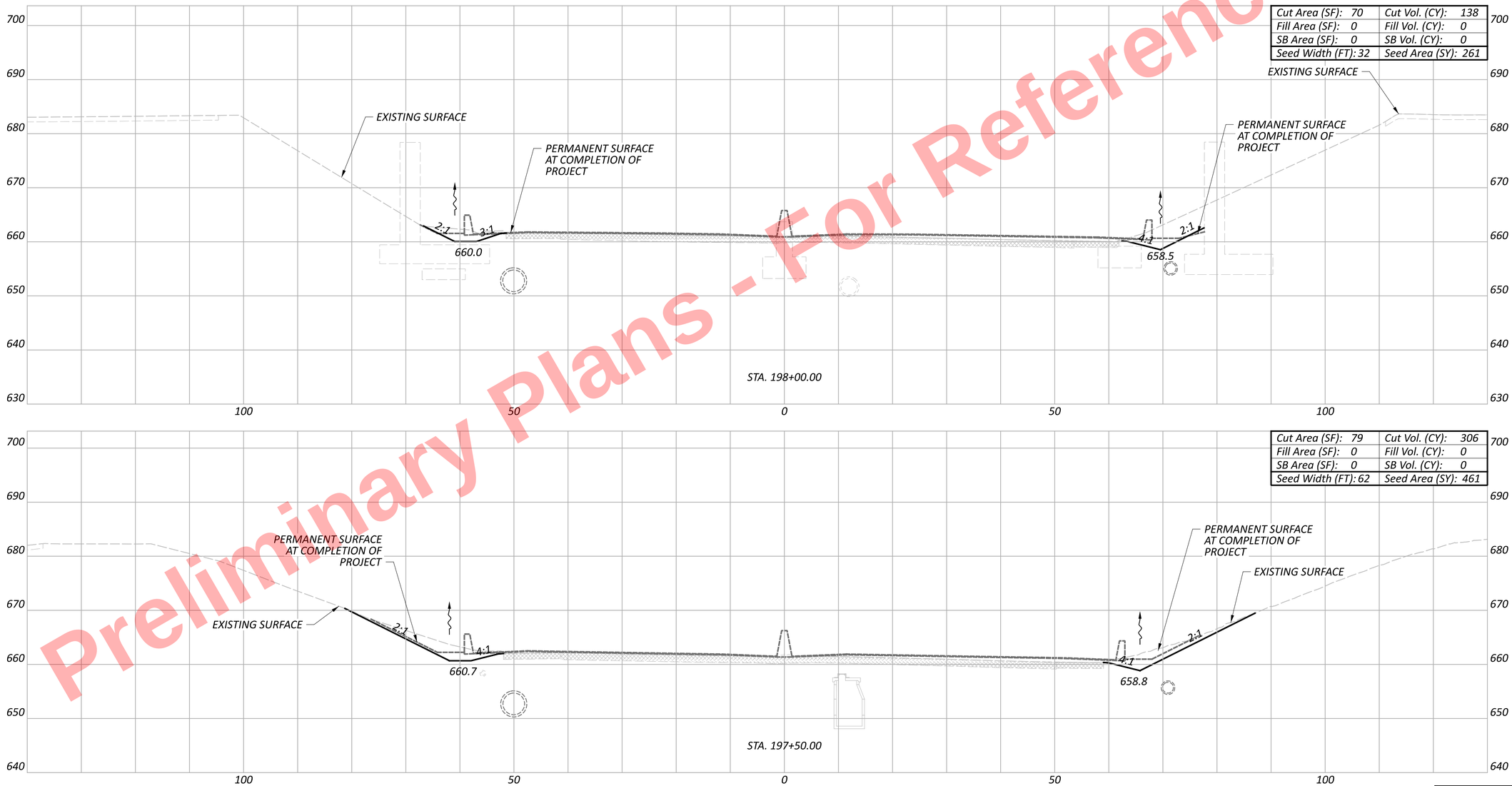
REVIEWER
MTR 10/24/25

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
622	531	0	0

SHEET P.261 TOTAL P.1269

Preliminary Plans - For Reference Only



MOT CROSS SECTIONS - I.R. 77
STA. 197+50.00 TO STA. 198+00.00

CUY-77-11.41 - PART 1

MODEL: TempGrading - 197+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:20 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
722	444	0	0

DESIGN AGENCY
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DESIGNER
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MTR 10/24/25

PROJECT ID
105743

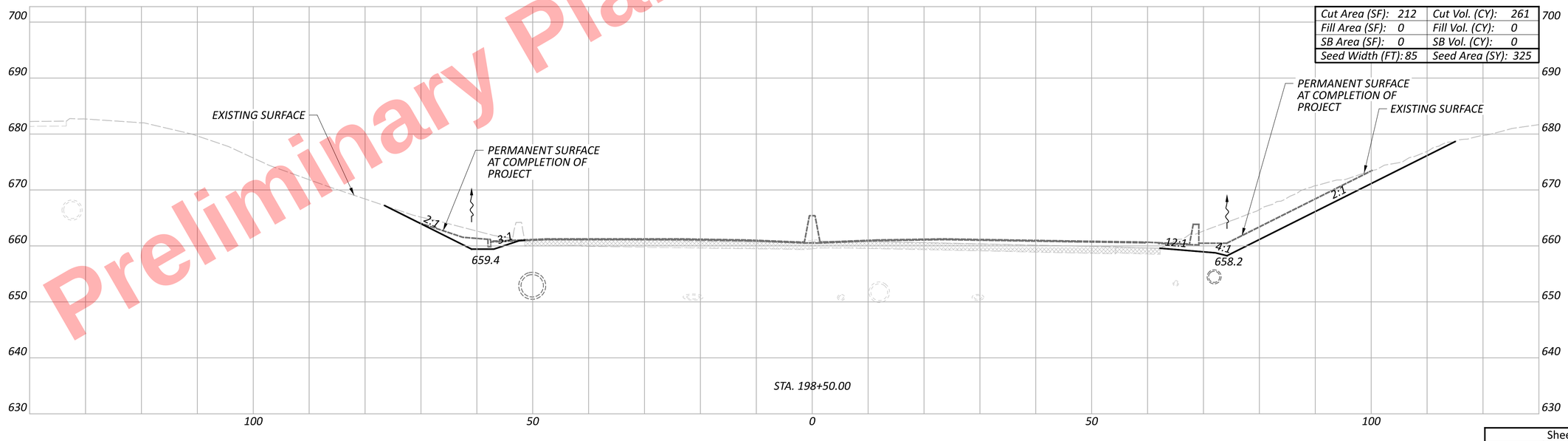
SHEET P.262 | TOTAL P.1269

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: TempGrading - 198+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:22 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\40D-Engineering\MOT\Sheets\105743_XS101.dgn

MOT CROSS SECTIONS - I.R. 77
STA. 198+50.00



Cut Area (SF):	212	Cut Vol. (CY):	261
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	85	Seed Area (SY):	325

DESIGN AGENCY
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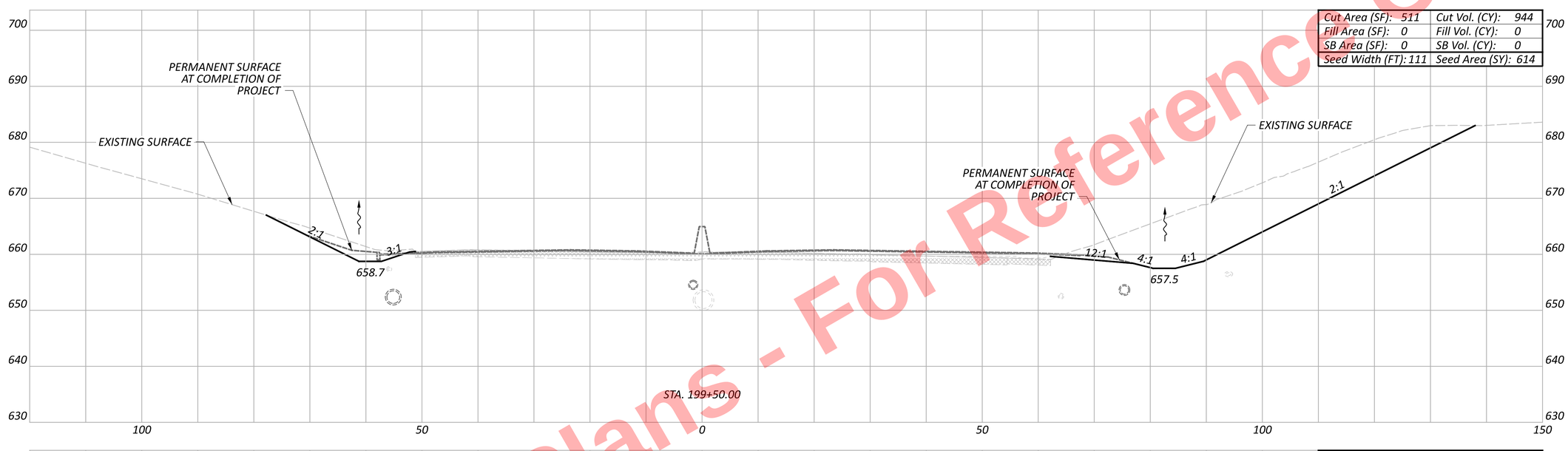
MTR 10/24/25

PROJECT ID
105743

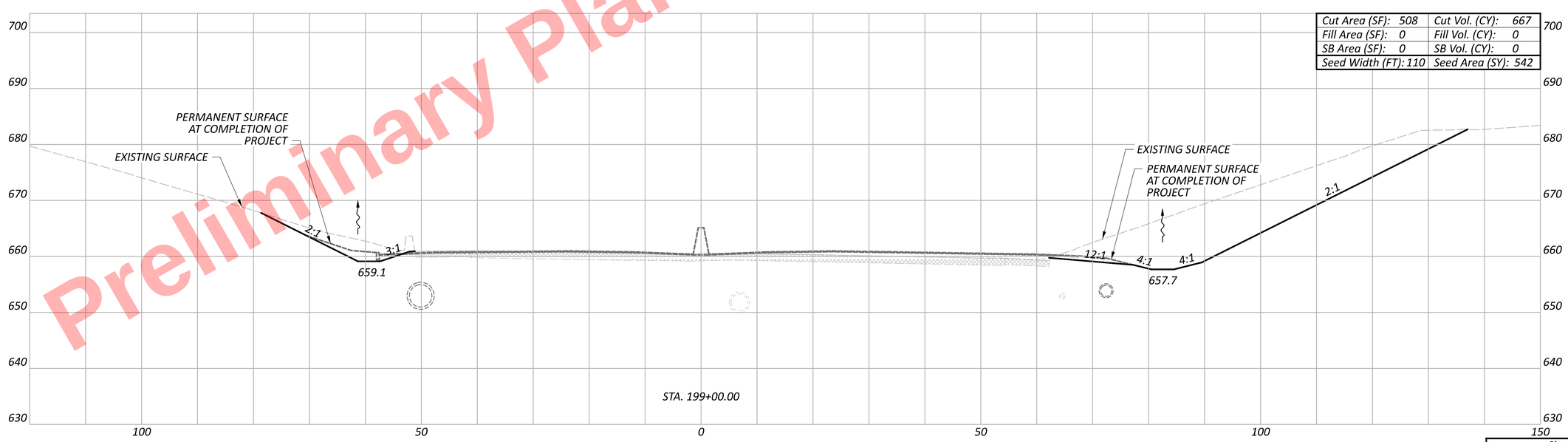
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
325	261	0	0

SHEET	TOTAL
P.263	P.1269

Preliminary Plans - For Reference Only



Cut Area (SF):	511	Cut Vol. (CY):	944
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	111	Seed Area (SY):	614



Cut Area (SF):	508	Cut Vol. (CY):	667
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	110	Seed Area (SY):	542

MOT CROSS SECTIONS - I.R. 77
STA. 199+00.00 TO STA. 199+50.00

DESIGN AGENCY
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PROJECT ID
105743

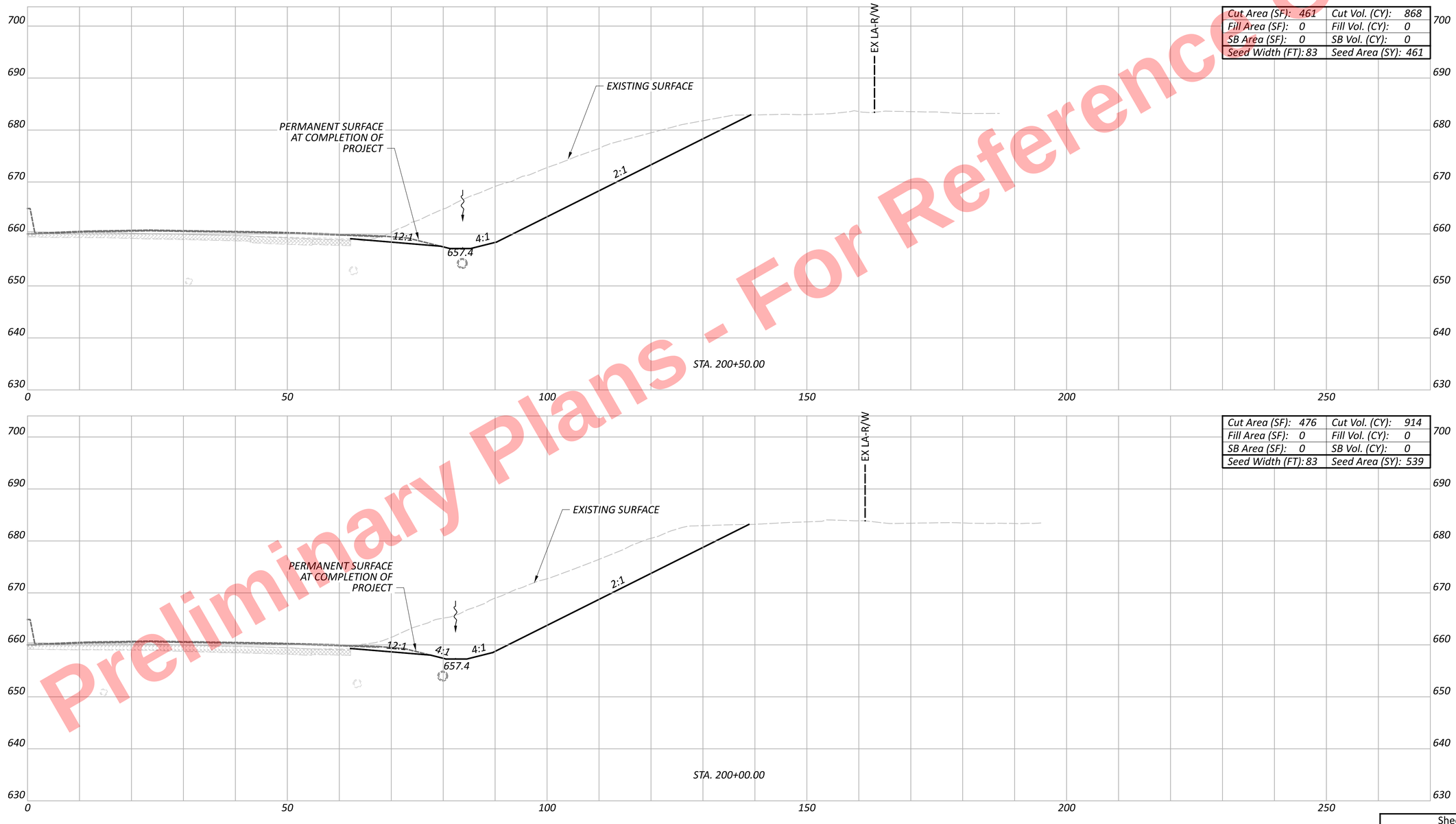
SHEET P.264 TOTAL P.1269

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1156	1611	0	0

CUY-77-11.41 - PART 1

MODEL: TempGrading - 199+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:24 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only



Cut Area (SF):	461	Cut Vol. (CY):	868
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	83	Seed Area (SY):	461

Cut Area (SF):	476	Cut Vol. (CY):	914
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	83	Seed Area (SY):	539

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1000	1782	0	0

MOT CROSS SECTIONS - I.R. 77
STA. 200+00.00 TO STA. 200+50.00

DESIGN AGENCY
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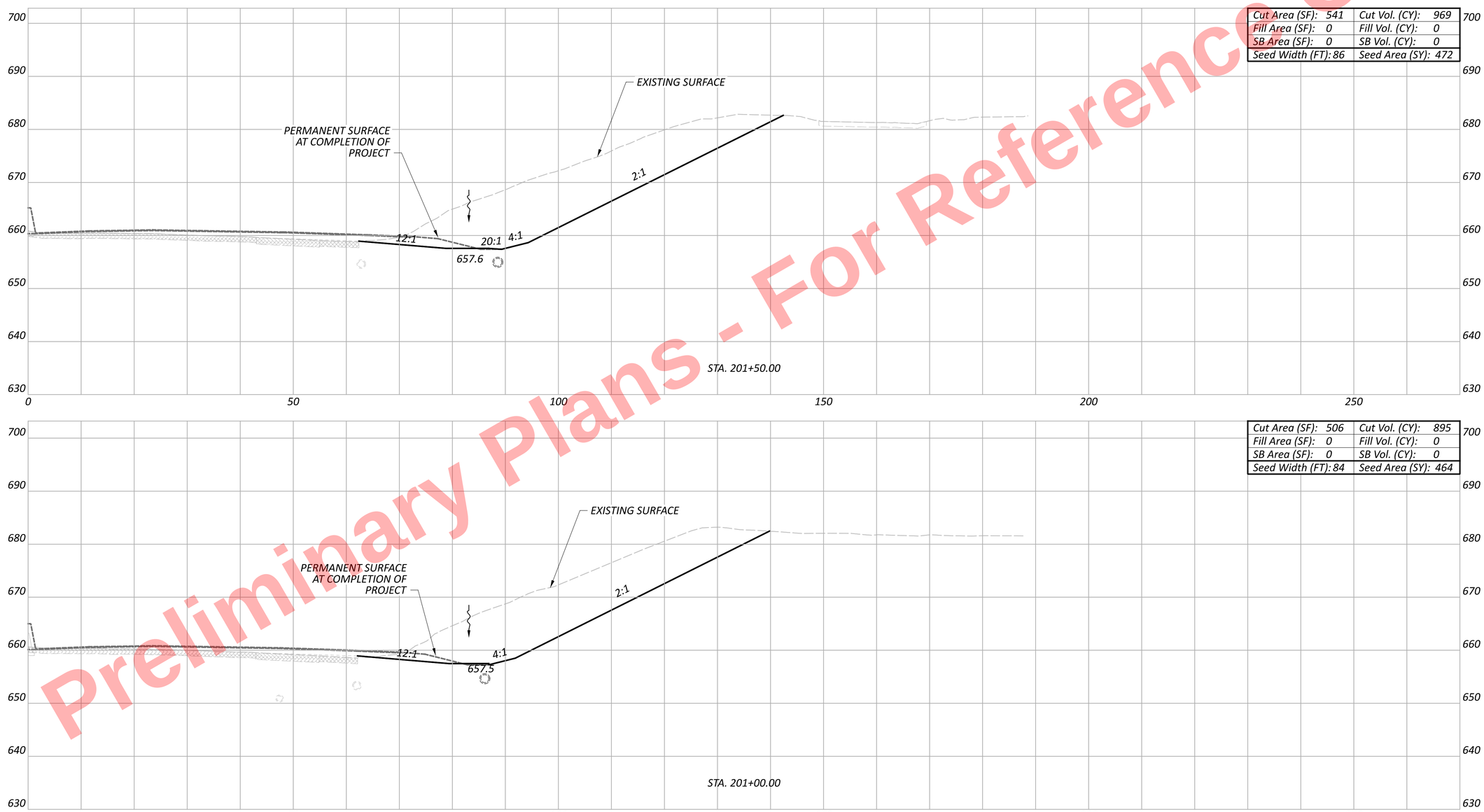
PROJECT ID
105743

SHEET P.265 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 200+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:26 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn



Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 201+00.00 TO STA. 201+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
936	1864	0	0

DESIGN AGENCY
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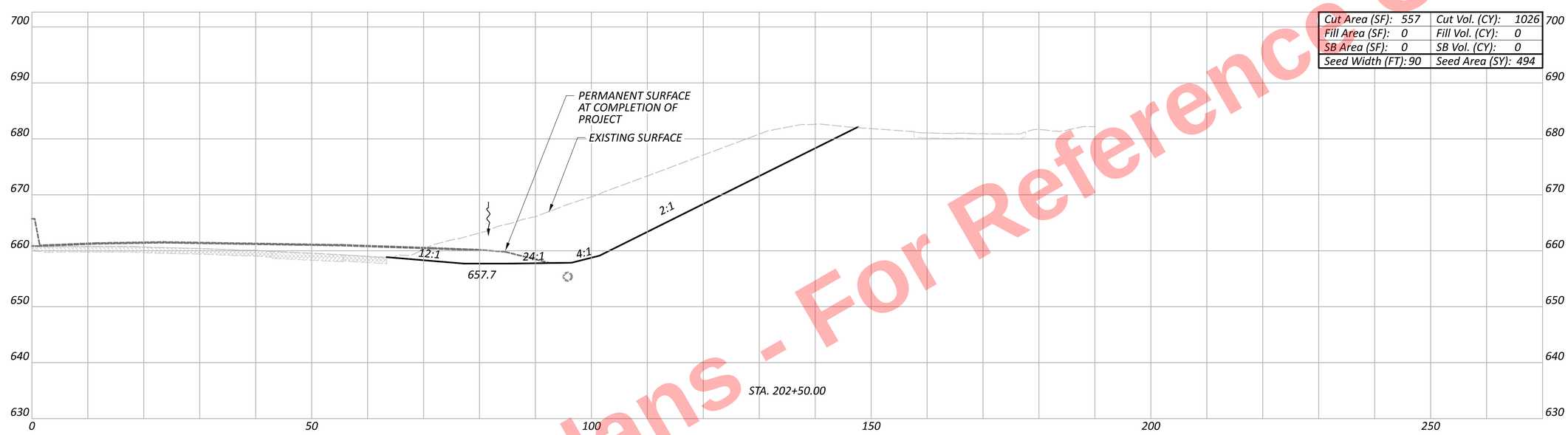
MTR 10/24/25

PROJECT ID
105743

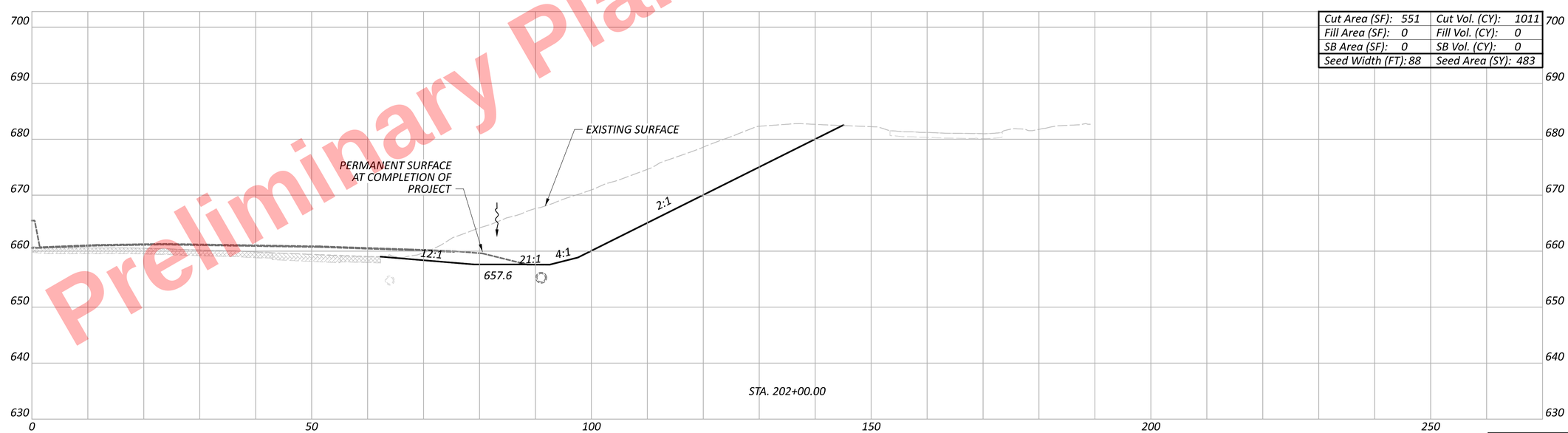
SHEET P.266 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 201+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:29 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn



Cut Area (SF):	557	Cut Vol. (CY):	1026
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	90	Seed Area (SY):	494



Cut Area (SF):	551	Cut Vol. (CY):	1011
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	88	Seed Area (SY):	483

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
977	2037	0	0

Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 202+00.00 TO STA. 202+50.00

DESIGN AGENCY
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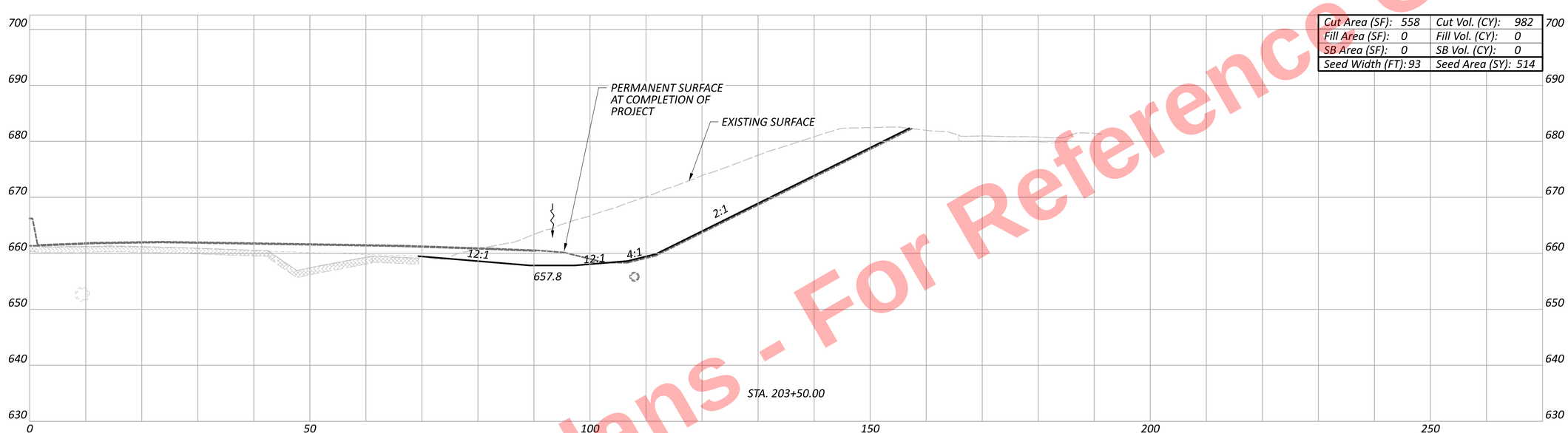
MTR 10/24/25

PROJECT ID
105743

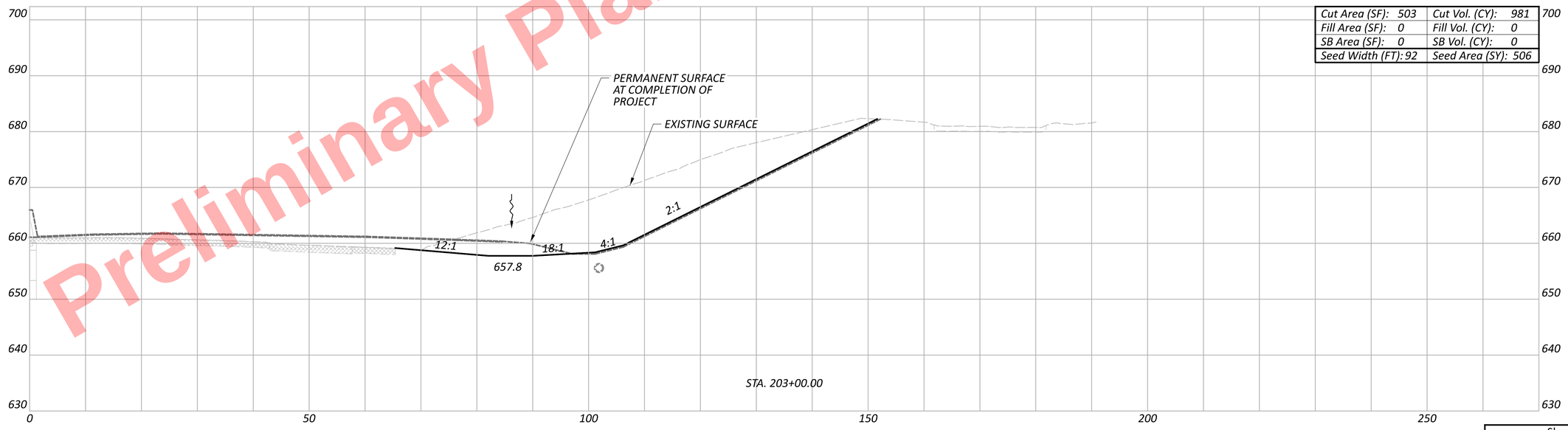
SHEET P.267 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 202+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:31 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn



Cut Area (SF):	558	Cut Vol. (CY):	982
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	93	Seed Area (SY):	514



Cut Area (SF):	503	Cut Vol. (CY):	981
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	92	Seed Area (SY):	506

Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 203+00.00 TO STA. 203+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1020	1963	0	0

DESIGN AGENCY
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MTR 10/24/25

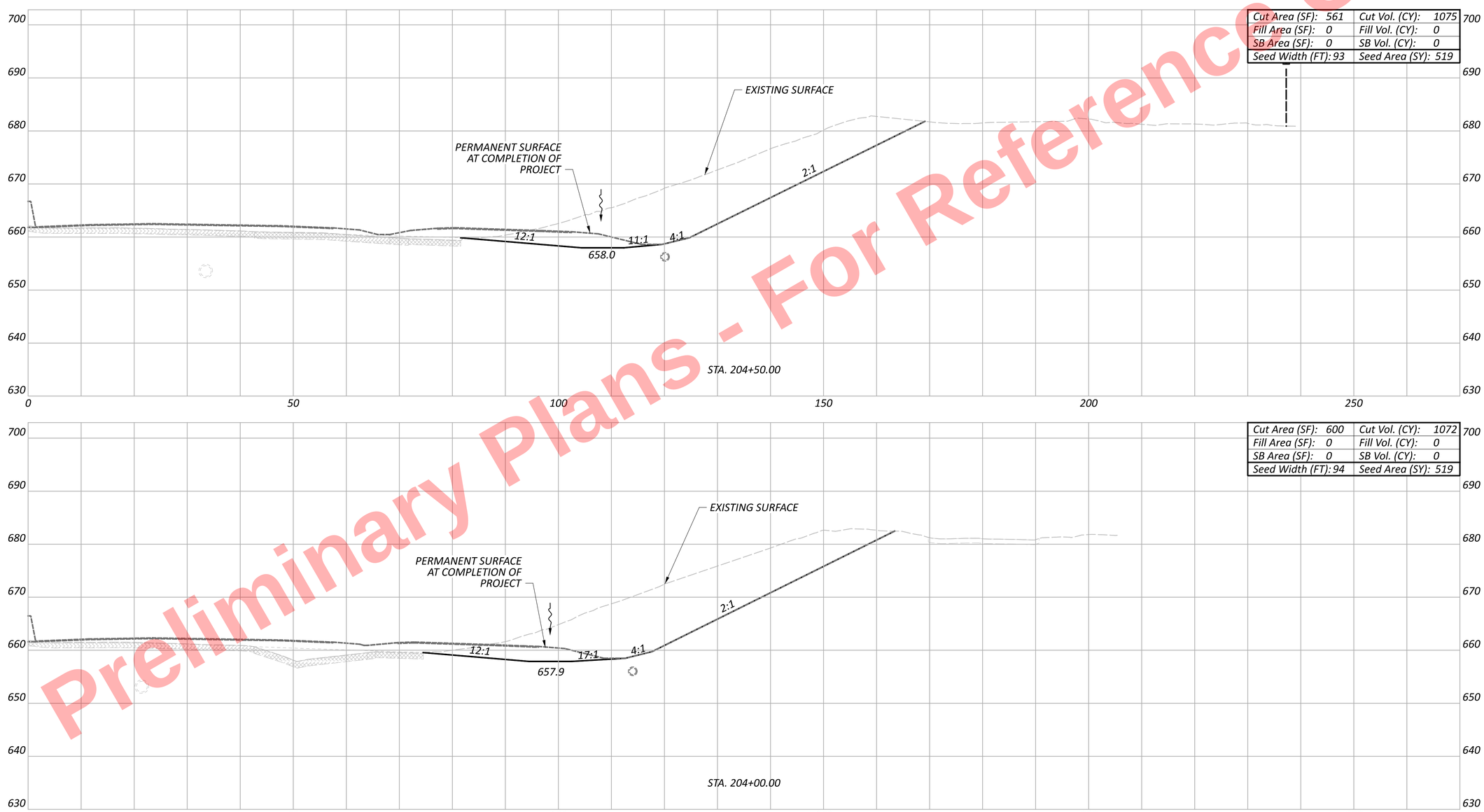
PROJECT ID
105743

SHEET P.268 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: TempGrading - 203+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:34 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only



MOT CROSS SECTIONS - I.R. 77
STA. 204+00.00 TO STA. 204+50.00

CUY-77-11.41 - PART 1

MODEL: TempGrading - 204+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:36 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1038	2147	0	0

DESIGN AGENCY
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DESIGNER
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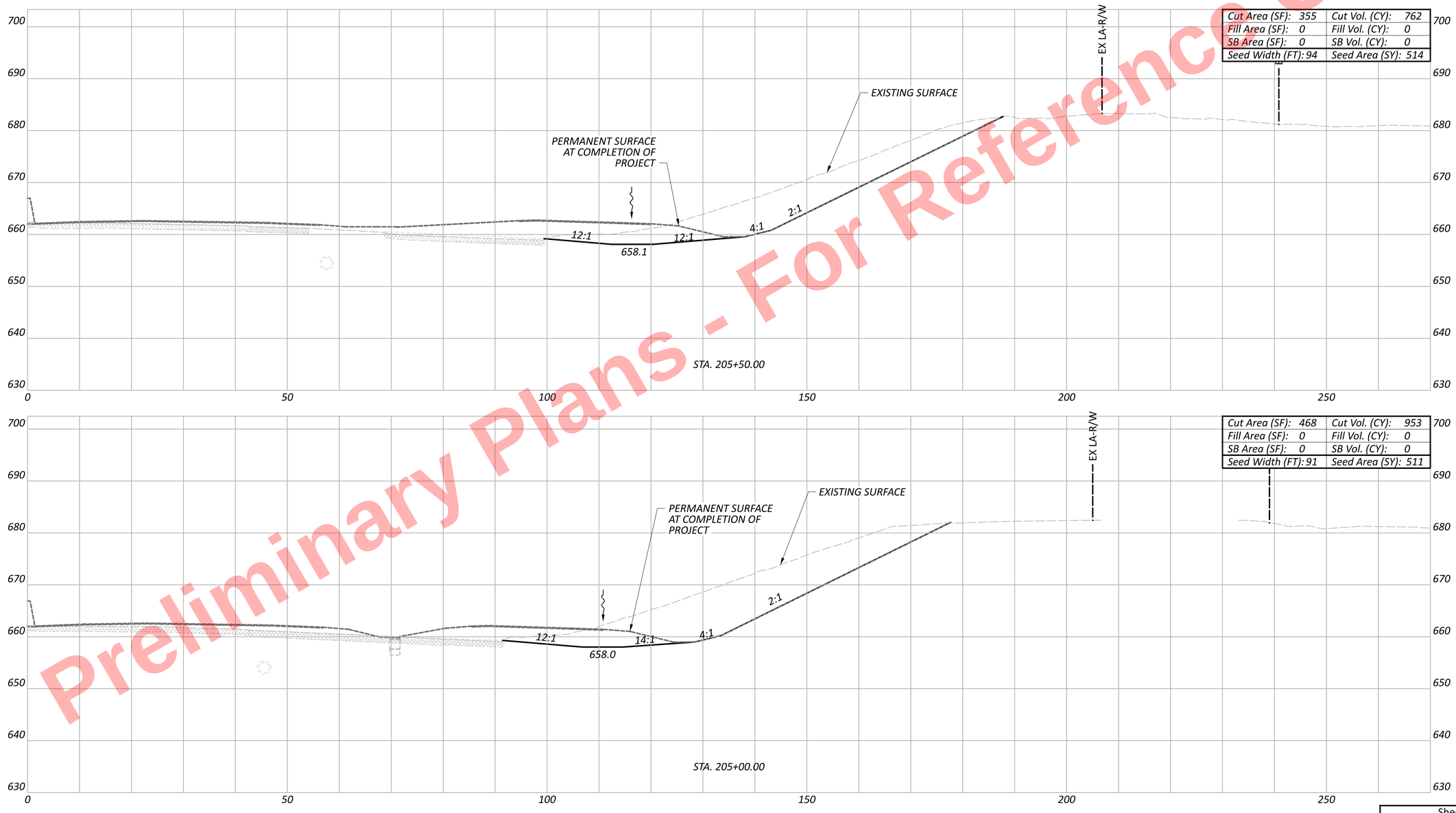
REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.269
TOTAL P.1269

Preliminary Plans - For Reference Only



MOT CROSS SECTIONS - I.R. 77
STA. 205+00.00 TO STA. 205+50.00

CUY-77-11.41 - PART 1

MODEL: TempGrading - 205+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:39 AM USER: kperkins
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Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1025	1715	0	0

DESIGN AGENCY
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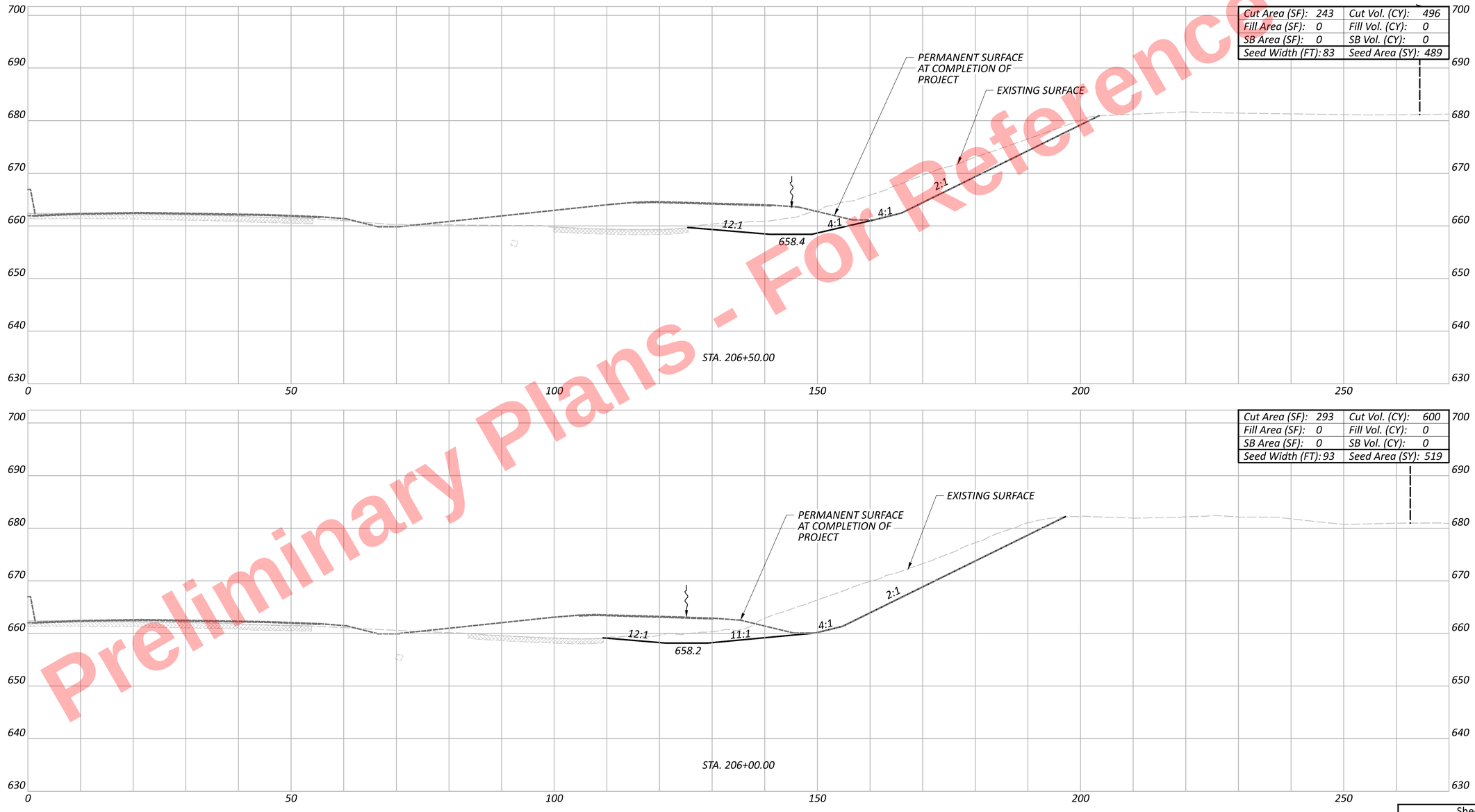
MTR 10/24/25

PROJECT ID
105743

SHEET P.270 TOTAL P.1269

Preliminary Plans - For Reference Only



MOT CROSS SECTIONS - I.R. 77
STA. 206+00.00 TO STA. 206+50.00

CUY-77-11.41 - PART 1

MODEL: TempGrading - 206+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:41 AM USER: kperkins
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Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1008	1096	0	0

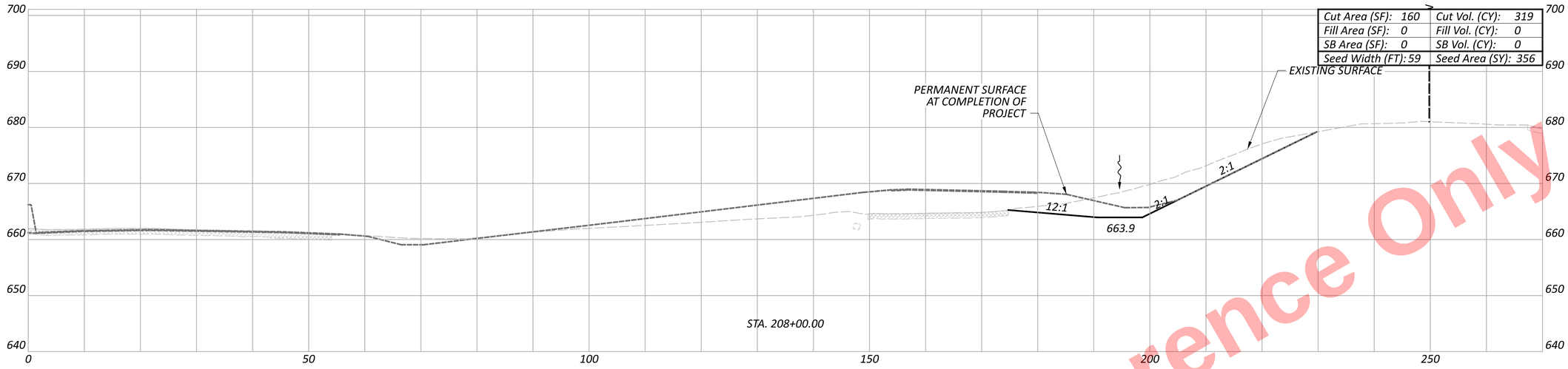
DESIGN AGENCY
HNTB

DESIGNER
AS

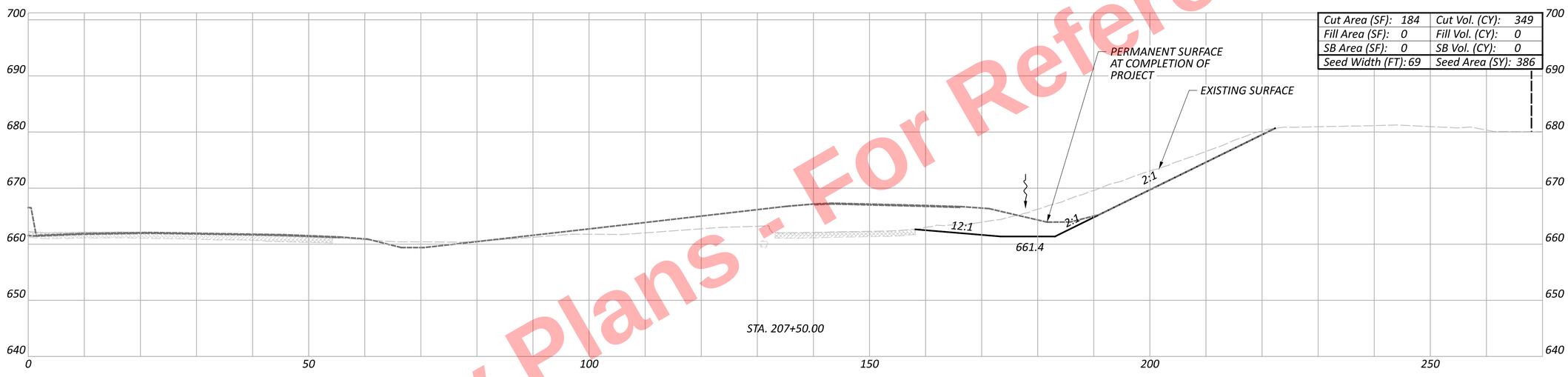
REVIEWER
MTR 10/24/25

PROJECT ID
105743

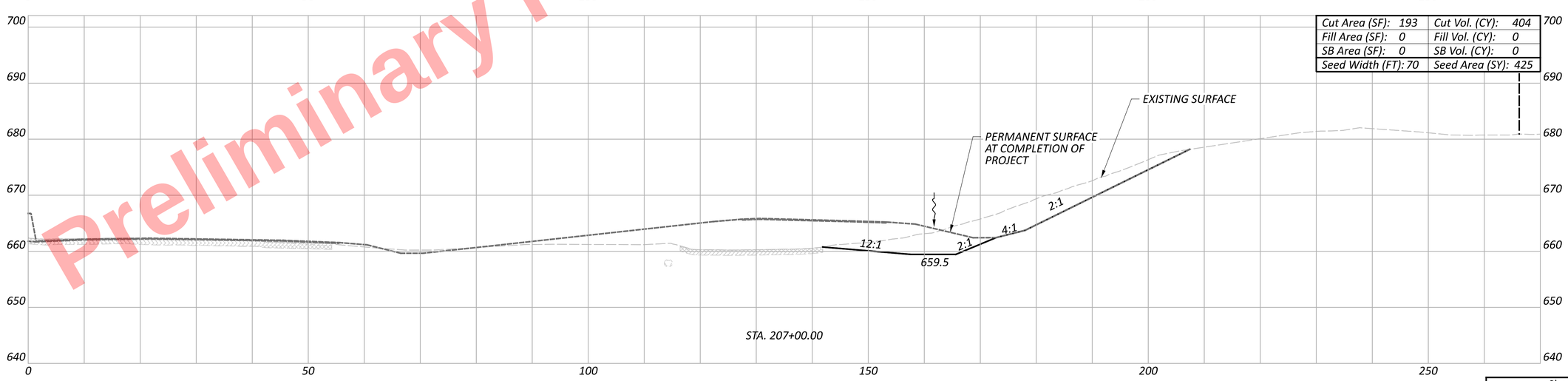
SHEET P.271
TOTAL P.1269



Cut Area (SF):	160	Cut Vol. (CY):	319
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	59	Seed Area (SY):	356



Cut Area (SF):	184	Cut Vol. (CY):	349
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	69	Seed Area (SY):	386



Cut Area (SF):	193	Cut Vol. (CY):	404
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	70	Seed Area (SY):	425

Preliminary Plans - For Reference Only

MOT CROSS SECTIONS - I.R. 77
STA. 207+00.00 TO STA. 208+00.00

DESIGN AGENCY
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REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.272 | TOTAL P.1269

Sheet Totals

Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1167	1072	0	0

CUY-77-11.41 - PART 1

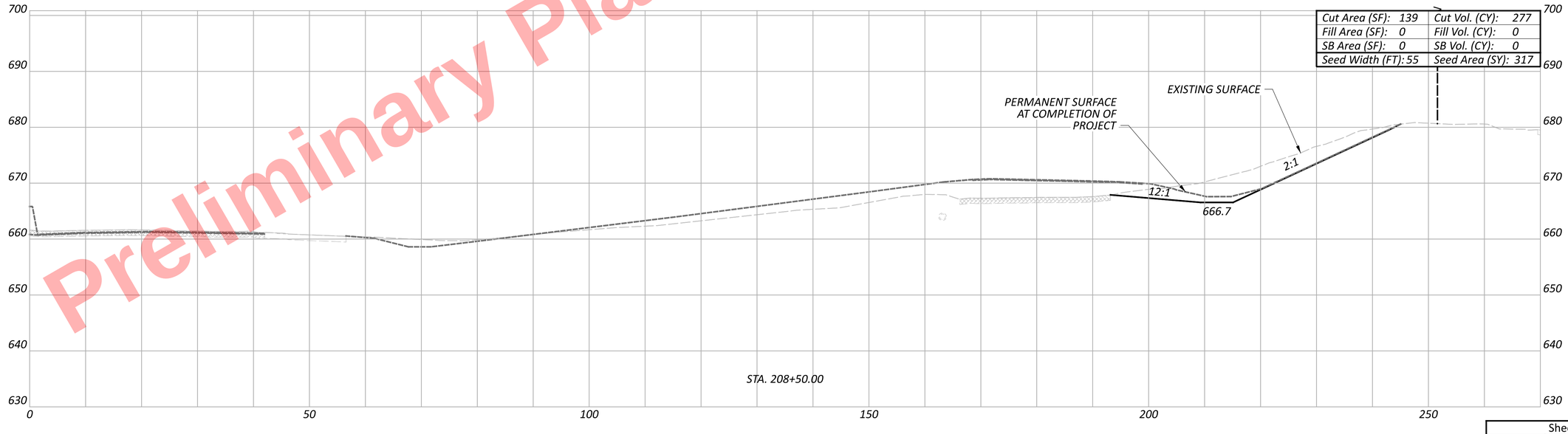
MODEL: TempGrading - 207+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:43 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_XS101.dgn

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: TempGrading - 208+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:46 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\40D-Engineering\MOT\Sheets\105743_XS101.dgn

MOT CROSS SECTIONS - I.R. 77
STA. 208+50.00



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
317	277	0	0

DESIGN AGENCY
HNTB

DESIGNER
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REVIEWER
MTR 10/24/25

PROJECT ID
105743

SHEET P.273 TOTAL P.1269

SHEET NUMBER												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.25	P. 284	P. 286	P. 290	P.292	P.706	P.722	P.1009	P.1024				01/IMS/05	02/IMS/10						
																		ROADWAY	
LS												LS		201	11000	LS		CLEARING AND GRUBBING	P. 25
	191,998											191,998		202	23000	191,998	SY	PAVEMENT REMOVED	
	4,068											4,068		202	30000	4,068	SF	WALK REMOVED	
	11											11		202	30200	11	FT	STEPS REMOVED	
	15,947											15,947		202	30700	15,947	FT	CONCRETE BARRIER REMOVED	
	221											221		202	30800	221	SY	TRAFFIC ISLAND REMOVED	
	36,794											36,794		202	32000	36,794	FT	CURB REMOVED	
			7,109									7,109		202	23500	7,109	SY	WEARING COURSE REMOVED	
					2,000	6,509	383	162				9,054		202	35100	9,054	FT	PIPE REMOVED, 24" DIAMETER AND UNDER	
					500	897						1,397		202	35200	1,397	FT	PIPE REMOVED, OVER 24" DIAMETER	
	14,427											14,427		202	38000	14,427	FT	GUARDRAIL REMOVED	
	2											2		202	47800	2	EACH	IMPACT ATTENUATOR REMOVED	
					10	62	2					74		202	58000	74	EACH	MANHOLE REMOVED	
					10	135						145		202	58100	145	EACH	CATCH BASIN REMOVED	
					10	62						72		202	58200	72	EACH	INLET REMOVED	
						1						1		202	58401	1	EACH	INLET ABANDONED, AS PER PLAN	P.706
						3						3		202	58700	3	EACH	MANHOLE ABANDONED	
								528				528		SPECIAL	20270000	528	FT	FILL AND PLUG EXISTING CONDUIT, 12" WATER MAIN	P.1011
								281				281		SPECIAL	20270000	281	FT	FILL AND PLUG EXISTING CONDUIT, 36" WATER MAIN	P.1011
						13,681						13,681		SPECIAL	20270000	13,681	FT	FILL AND PLUG EXISTING CONDUIT, 24" AND UNDER	P.706
						8,682						8,682		SPECIAL	20270000	8,682	FT	FILL AND PLUG EXISTING CONDUIT, 27" TO 48"	P.706
						1,912						1,912		SPECIAL	20270110	1,912	FT	PIPE CLEANOUT, 24" AND UNDER	P.706
						499						499		SPECIAL	20270120	499	FT	PIPE CLEANOUT, 27" TO 48"	P.706
	23,469											23,469		202	75000	23,469	FT	FENCE REMOVED	
	329											329		202	38500	329	FT	BRIDGE RAILING REMOVED	
	3											3		202	75250	3	EACH	GATE REMOVED	
						1						1		202	98100	1	EACH	REMOVAL MISC.: MANUFACTURED SYSTEM, TYPE 1 REMOVED	P.706
	1,724											1,724		202	98200	1,724	FT	REMOVAL MISC.: RAILROAD RAILS AND TIES	P. 25A
						466						466		202	98200	466	FT	REMOVAL MISC.: TRENCH DRAIN REMOVED	P.706
		149,047										149,047		203	10000	149,047	CY	EXCAVATION	
		48,736										48,736		203	20000	48,736	CY	EMBANKMENT	
				7,218								7,218		204	10000	7,218	SY	SUBGRADE COMPACTION	
			101	23								124		204	45000	124	HOUR	PROOF ROLLING	
			6,141	1,104								7,245		206	10500	7,245	TON	CEMENT	
			200,555	19,616								220,171		206	15020	220,171	SY	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	
LS												LS		206	30000	LS		MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS	
	2.1											2.1		209	15051	2.1	MILE	RESHAPING UNDER GUARDRAIL, AS PER PLAN	P. 26
	10,913											10,913		606	15050	10,913	FT	GUARDRAIL, TYPE MGS	
	16											16		606	26100	16	EACH	ANCHOR ASSEMBLY, TYPE E	
	12											12		606	26500	12	EACH	ANCHOR ASSEMBLY, TYPE T	
	24											24		606	35002	24	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
	2											2		606	60022	2	EACH	IMPACT ATTENUATOR, TYPE 2 (UNIDIRECTIONAL)	
	20,518											20,518		607	23000	20,518	FT	FENCE, TYPE CLT	
	992											992		607	23001	992	FT	FENCE, TYPE CLT, AS PER PLAN, A	P. 26
	2,213											2,213		607	23001	2,213	FT	FENCE, TYPE CLT, AS PER PLAN, B	P. 26
	2,213											2,213		607	23001	2,213	FT	FENCE, TYPE CLT, AS PER PLAN, C	P. 26
	3											3		607	61200	3	EACH	GATE, TYPE CLT	
	1,027											1,027		608	10000	1,027	SF	4" CONCRETE WALK	
	3,457											3,457		608	52000	3,457	SF	CURB RAMP	
	3,683											3,683		622	10100	3,683	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE B1	
	369											369		622	10120	369	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C	
	11,661											11,661		622	10140	11,661	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C1	
	7,883											7,883		622	10160	7,883	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D	
	1											1		622	10200	1	EACH	BARRIER TRANSITION	

Preliminary Plans - For Reference Only

GENERAL SUMMARY

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER ASEP

REVIEWER KKP 05/01/26

PROJECT ID 105743

SHEET P.274 | TOTAL P.1269

MODEL: Unnamed Plan - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 9:05:13 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GG001.dgn
OHDOT_Pen.tbl

SHEET NUMBER													PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.26	P. 284	P. 286	P.705	P.706	P.723	P.739	P.748	P.1111					01/IMS/05	02/IMS/10						
																			ROADWAY (CONT.)	
	26												26		622	25000	26	EACH	CONCRETE BARRIER END SECTION, TYPE D	
	24												24		622	25006	24	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1	
	8												8		622	25008	8	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C	
	81												81		622	25014	81	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1	
	64												64		622	25050	64	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	
	4												4		622	90000	4	FT	BARRIER, MISC.: CONCRETE BARRIER END SECTION, TYPE C	
8													8		623	38501	8	EACH	MONUMENT ASSEMBLY, TYPE C, AS PER PLAN	P. 26
8													8		623	40900	8	EACH	MONUMENT, MISC.: MONUMENT REFERENCING	P. 26
	3												3		625	32000	3	EACH	GROUND ROD	
																			EROSION CONTROL	
					8								8		601	11000	8	SY	RIPRAP, TYPE D	
				4			7.2						11.2		601	21050	11.2	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
					70								70		601	32200	70	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
					300								300		601	37500	300	FT	PAVED GUTTER, TYPE 1-2	
2													2		659	00100	2	EACH	SOIL ANALYSIS TEST	
11,807			1,917										13,724		659	00300	13,724	CY	TOPSOIL	
106,371		104,472											210,843		659	10000	210,843	SY	SEEDING AND MULCHING	
5,319													5,319		659	14000	5,319	SY	REPAIR SEEDING AND MULCHING	
5,319													5,319		659	15000	5,319	SY	INTER-SEEDING	
493													493		659	20000	493	TON	COMMERCIAL FERTILIZER	
22													22		659	31000	22	ACRE	LIME	
589													589		659	35000	589	MGAL	WATER	
239													239		659	40000	239	MSF	MOWING	
			13,406										13,406		670	00500	13,406	SY	SLOPE EROSION PROTECTION	
			21,091										21,091		670	00700	21,091	SY	DITCH EROSION PROTECTION	
					2,541								2,541		670	00720	2,541	SY	DITCH EROSION PROTECTION MAT, TYPE B	
			LS										LS		832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
			LS										LS		832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
			LS										LS		832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
			700,000										700,000		832	30000	700,000	EACH	EROSION CONTROL	
					215								215		836	10000	215	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	
																			DRAINAGE	
						0.81							0.81		602	20000	0.81	CY	CONCRETE MASONRY	
				500			92,042						92,542		605	11110	92,542	FT	6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
				100			1,370						1,470		605	13300	1,470	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
							620						620		611	00400	620	FT	4" CONDUIT, TYPE E	
				250			3,572						3,822		611	00510	3,822	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
						9							9		611	00901	9	FT	6" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	P.706
						36							36		611	00901	36	FT	6" CONDUIT, TYPE B, AS PER PLAN 1, 707.65	P.706
						5							5		611	01101	5	FT	6" CONDUIT, TYPE C, AS PER PLAN 1, 707.65	P.706
						8							8		611	01801	8	FT	8" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	P.706
						22							22		611	02001	22	FT	8" CONDUIT, TYPE C, AS PER PLAN1	P.706
						97							97		611	04401	97	FT	12" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	P.706
						5,099							5,099		611	05901	5,099	FT	15" CONDUIT, TYPE B, AS PER PLAN1	P.706
						56							56		611	05901	56	FT	15" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	P.706
						32							32		611	05901	32	FT	15" CONDUIT, TYPE B, AS PER PLAN 1, 707.65	P.706
						189							189		611	05901	189	FT	15" CONDUIT, TYPE B, AS PER PLAN3	P.707
						3							3		611	05901	3	FT	15" CONDUIT, TYPE B, AS PER PLAN5	P.707
						728							728		611	06101	728	FT	15" CONDUIT, TYPE C, AS PER PLAN1	P.706
						283							283		611	06101	283	FT	15" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	P.706
						16							16		611	06101	16	FT	15" CONDUIT, TYPE C, AS PER PLAN 1, 707.65	P.706
						27							27		611	06101	27	FT	15" CONDUIT, TYPE C, AS PER PLAN3	P.707
						226							226		611	06101	226	FT	15" CONDUIT, TYPE C, AS PER PLAN4	P.707
						1,823							1,823		611	07401	1,823	FT	18" CONDUIT, TYPE B, AS PER PLAN1	P.706
						17							17		611	07401	17	FT	18" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	P.706

Preliminary Plans - For Reference Only

GENERAL SUMMARY

DESIGN AGENCY: HNTB

DESIGNER: ASEP

REVIEWER: KKP 05/02/26

PROJECT ID: 105743

SHEET: P.275 TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: Unnamed Plan - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 9:05:14 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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SHEET NUMBER												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.739	P.740	P.741										01/IMS/05	02/IMS/10						
																		DRAINAGE (CONT.)	
11												11		611	07401	11	FT	18" CONDUIT, TYPE B, AS PER PLAN 1, 707.65	P.706
460												460		611	07401	460	FT	18" CONDUIT, TYPE B, AS PER PLAN2	P.707
716												716		611	07601	716	FT	18" CONDUIT, TYPE C, AS PER PLAN1	P.706
300												300		611	07601	300	FT	18" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	P.706
317												317		611	08901	317	FT	21" CONDUIT, TYPE B, AS PER PLAN1	P.706
372												372		611	09101	372	FT	21" CONDUIT, TYPE C, AS PER PLAN1	P.706
87												87		611	10401	87	FT	24" CONDUIT, TYPE B, AS PER PLAN1	P.706
260												260		611	10601	260	FT	24" CONDUIT, TYPE C, AS PER PLAN1	P.706
493												493		611	10601	493	FT	24" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	P.706
5												5		611	10601	5	FT	24" CONDUIT, TYPE C, AS PER PLAN 1, 707.01	P.706
98												98		611	11901	98	FT	27" CONDUIT, TYPE B, AS PER PLAN1	P.706
190												190		611	12101	190	FT	27" CONDUIT, TYPE C, AS PER PLAN1	P.706
	833											833		611	13401	833	FT	30" CONDUIT, TYPE B, AS PER PLAN1	P.706
	211											211		611	13401	211	FT	30" CONDUIT, TYPE B, AS PER PLAN2	P.707
	89											89		611	13601	89	FT	30" CONDUIT, TYPE C, AS PER PLAN5	P.707
	31											31		611	16601	31	FT	36" CONDUIT, TYPE C, AS PER PLAN1	P.706
	8											8		611	16601	8	FT	36" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	P.706
	18											18		611	19601	18	FT	42" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	P.706
	412											412		611	20901	412	FT	48" CONDUIT, TYPE B, AS PER PLAN1	P.706
	231											231		611	20901	231	FT	48" CONDUIT, TYPE B, AS PER PLAN2	P.707
	1,832											1,832		611	21101	1,832	FT	48" CONDUIT, TYPE C, AS PER PLAN1	P.706
	8											8		611	21101	8	FT	48" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	P.706
	552											552		611	22401	552	FT	54" CONDUIT, TYPE B, AS PER PLAN1	P.706
	445											445		611	22601	445	FT	54" CONDUIT, TYPE C, AS PER PLAN1	P.706
	4,268											4,268		611	23801	4,268	FT	60" CONDUIT, TYPE B, AS PER PLAN1	P.706
	262											262		611	23801	262	FT	60" CONDUIT, TYPE B, AS PER PLAN2	P.707
	133											133		611	25201	133	FT	66" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	P.706
	133											133		611	52203	133	FT	14" X 23" CONDUIT, TYPE B, 706.04, AS PER PLAN1	P.706
	1,299											1,299		611	96601	1,299	FT	CONDUIT, BORED OR JACKED, AS PER PLAN 1, 15", TYPE B	P.706
	45											45		611	96601	45	FT	CONDUIT, BORED OR JACKED, AS PER PLAN 1, 18", TYPE B	P.706
	178											178		611	96601	178	FT	CONDUIT, BORED OR JACKED, AS PER PLAN 1, 21", TYPE B	P.706
	226											226		611	96601	226	FT	CONDUIT, BORED OR JACKED, AS PER PLAN 1, 24", TYPE B	P.706
	135											135		611	96601	135	FT	CONDUIT, BORED OR JACKED, AS PER PLAN 1, 27", TYPE B	P.706
	186											186		611	96601	186	FT	CONDUIT, BORED OR JACKED, AS PER PLAN 1, 30", TYPE B	P.706
	117											117		611	96601	117	FT	CONDUIT, BORED OR JACKED, AS PER PLAN 1, 36", TYPE B	P.706
	55											55		611	96601	55	FT	CONDUIT, BORED OR JACKED, AS PER PLAN 1, 14" X 23", TYPE B, 706.04	P.706
	65											65		611	97400	65	FT	CONDUIT, MISC.: 14" X 23" CONDUIT, TYPE C, 706.04, AS PER PLAN 1	P.706
	51											51		611	97400	51	FT	CONDUIT, MISC.: 24" X 38" CONDUIT, TYPE C, 706.04, AS PER PLAN 1	P.706
	3											3		611	98180	3	EACH	CATCH BASIN, NO. 3A	
	9											9		611	98300	9	EACH	CATCH BASIN, NO. 5	
	1											1		611	98301	1	EACH	CATCH BASIN, NO. 5, AS PER PLAN	P.707
	5											5		611	98371	5	EACH	CATCH BASIN, NO. 6, AS PER PLAN	P.707
	1											1		611	98430	1	EACH	CATCH BASIN, NO. 8 WITHOUT APRON	
	7											7		611	98510	7	EACH	CATCH BASIN, NO. 2-3	
		4										4		611	98520	4	EACH	CATCH BASIN, NO. 2-3 WITH BICYCLE SAFE GRATE	
		4										4		611	98580	4	EACH	CATCH BASIN, NO. 2-5 WITH BICYCLE SAFE GRATE	
		2										2		611	98610	2	EACH	CATCH BASIN, NO. 2-6 WITH BICYCLE SAFE GRATE	
		17										17		611	98630	17	EACH	CATCH BASIN ADJUSTED TO GRADE	
		8										8		611	98840	8	EACH	INLET, NO. 2-A-6	
		15										15		611	98850	15	EACH	INLET, NO. 2-A-8	
		25										25		611	98860	25	EACH	INLET, NO. 2-A-10	
		9										9		611	98870	9	EACH	INLET, NO. 2-A-12	
		1										1		611	98890	1	EACH	INLET, NO. 2-A-16	
		8										8		611	99100	8	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1	
		20										20		611	99110	20	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1	
		2										2		611	99111	2	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN	P.707
		26										26		611	99114	26	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D	
		1										1		611	99115	1	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN1	P.707
		2										2		611	99115	2	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN2	P.707

Preliminary Plans - For Reference Only

GENERAL SUMMARY

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER
ASEP

REVIEWER
KKP 05/03/26

PROJECT ID
105743

SHEET P.276 | TOTAL P.1269

MODEL: Unnamed Plan - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 9:05:15 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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SHEET NUMBER												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.26	P. 284	P. 290	P.292	P.706	P.741	P.748	P.1009	P.1011	P.1024			01/IMS/05	02/IMS/10						
																		DRAINAGE (CONT.)	
					59							59		611	99500	59	EACH	INLET, MISC.: BARRIER INLET SCREEN	P.708
					20							20		611	99574	20	EACH	MANHOLE, NO. 3	
					12							12		611	99574	12	EACH	MANHOLE, NO. 3 WITH 60" BASE I.D.	
					3							3		611	99574	3	EACH	MANHOLE, NO. 3 WITH 72" BASE I.D.	
					8							8		611	99574	8	EACH	MANHOLE, NO. 3 WITH 84" BASE I.D.	
					1							1		611	99574	1	EACH	MANHOLE, NO. 3 WITH 90" BASE I.D.	
					2							2		611	99574	2	EACH	MANHOLE, NO. 3 WITH 96" BASE I.D.	
					1							1		611	99574	1	EACH	MANHOLE, NO. 3 WITH 108" BASE I.D.	
					1							1		611	99621	1	EACH	MANHOLE, NO. 5, AS PER PLAN	P.707
					16							16		611	99654	16	EACH	MANHOLE ADJUSTED TO GRADE	
					8							8		611	99690	8	EACH	MANHOLE, MISC.: MANHOLE NO. 3 WITH BOLTED COVER	P.707
					3							3		611	99690	3	EACH	MANHOLE, MISC.: MANHOLE NO. 3 WITH 60" BASE I.D. WITH BOLTED COVER	P.707
					3							3		611	99690	3	EACH	MANHOLE, MISC.: MANHOLE NO. 3 WITH 72" BASE I.D. WITH BOLTED COVER	P.707
					4							4		611	99690	4	EACH	MANHOLE, MISC.: MANHOLE NO. 3 WITH 90" BASE I.D. WITH BOLTED COVER	P.707
					10							10		611	99690	10	EACH	MANHOLE, MISC.: MANHOLE NO. 3 WITH 96" BASE I.D. WITH BOLTED COVER	P.707
				1		4						5		611	99710	5	EACH	PRECAST REINFORCED CONCRETE OUTLET	
				15,000								15,000		SPECIAL	61199820	15,000	LB	MISCELLANEOUS METAL	P.706
					1							1		611	99900	1	EACH	DRAINAGE STRUCTURE, MISC.: RESHAPE AND REESTABLISH EXISTING CONNECTION	P.707
																		PAVEMENT	
		14,802										14,802		254	01001	14,802	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN, 3.25"	P. 22
		47,124										47,124		302	56001	47,124	CY	ASPHALT CONCRETE BASE, (449), AS PER PLAN, 25.0 MM GYRATORY MIX	P.27
		33,209	4,960									38,169		304	20000	38,169	CY	AGGREGATE BASE	
		602	434									1,036		407	13900	1,036	GAL	TACK COAT, 702.13	
		34,807										34,807		407	20000	34,807	GAL	NON-TRACKING TACK COAT	
			257									257		441	50000	257	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
			356									356		441	50300	356	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	
		281	70									351		441	70801	351	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN	P.26
		9,101										9,101		442	10080	9,101	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	
		8,910										8,910		442	10301	8,910	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	P.27
		1,599										1,599		442	22401	1,599	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (449), AS PER PLAN	P.22
			17,502									17,502		452	15010	17,502	SY	12" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
	4,342											4,342		609	14000	4,342	FT	CURB, TYPE 2-A	
	9,700											9,700		609	24510	9,700	FT	CURB, TYPE 4-C	
	275											275		609	26000	275	FT	CURB, TYPE 6	
	591											591		609	50000	591	SY	4" CONCRETE TRAFFIC ISLAND	
60,360												60,360		618	40101	60,360	FT	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE), AS PER PLAN	P.27
																		WATER WORK	
									2			2		638	02601	2	FT	12" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, BOLTLESS-RESTRAINED JOINTS AND FITTINGS, AS PER PLAN	P.1011
									318			318		638	04504	318	FT	36" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, BOLTLESS RESTRAINED JOINTS AND FITTINGS	
									2			2		638	08101	2	EACH	12" GATE VALVE AND VALVE BOX, AS PER PLAN	P.1011
									2			2		638	09201	2	EACH	12" CUTTING-IN SLEEVE, VALVE AND VALVE BOX, AS PER PLAN	P.1011
									2			2		SPECIAL	63820376	2	FT	36" WATER MAIN DIP CLASS 52 BOLTLESS RESTRAINED JOINTS AND FITTINGS, CWD STANDARDS	P.1011
									121			121		SPECIAL	63820460	121	FT	20" STEEL PIPE ENCASEMENT, BORED OR JACKED, CWD	P.1011
									120			120		SPECIAL	63820484	120	FT	56" STEEL PIPE ENCASEMENT, BORED OR JACKED, CWD	P.1011
									10			10		638	98000	10	EACH	WATER WORK, MISC.: POTHOLING	P.1011
									1			1		638	98000	1	EACH	WATER WORK, MISC.: 4" DRAIN ASSEMBLY	P.1011
									2			2		638	98000	2	EACH	WATER WORK, MISC.: CHLORINATION PIT	P.1011
								LS				LS		638	98100	LS		WATER WORK, MISC.: CITY OF CLEVELAND WATER DEPARTMENT CHARGES	P.1011
								LS				LS		638	98100	LS		WATER WORK, MISC.: AS-BUILT DRAWINGS	P.1011
																		SANITARY SEWER	
							279					279		611	10401	279	FT	24" CONDUIT, TYPE B, AS PER PLAN, 748.01	P.1009
							4					4		611	99574	4	EACH	MANHOLE, NO. 3	
							31					31		611	99654	31	EACH	MANHOLE ADJUSTED TO GRADE	

Preliminary Plans - For Reference Only

GENERAL SUMMARY

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER
ASEP

REVIEWER
KKP 05/04/26

PROJECT ID
105743

SHEET P.277 | TOTAL P.1269

MODEL: Unnamed Plan - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 9:05:16 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\RoadwaySheets\105743_GG001.dgn

SHEET NUMBER												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.1094	P.1112	P.1118	P.1119									01/IMS/05	02/IMS/10						
																		LIGHTING	
		230										230		625	00450	230	EACH	CONNECTION, FUSED PULL APART	
		96										96		625	00480	96	EACH	CONNECTION, UNFUSED PERMANENT	
		46										46		625	10490	46	EACH	LIGHT POLE, CONVENTIONAL, A12B40	
		63										63		625	10494	63	EACH	LIGHT POLE, LOW MAST, ALM 41.25	
		252										252		625	10620	252	EACH	LIGHT POLE ANCHOR BOLTS, MISC.: MEDIAN MOUNTED ALM 41.25	P.1111
		46										46		625	14100	46	EACH	LIGHT POLE FOUNDATION, 24" X 8' DEEP	
		63										63		625	14306	63	EACH	MEDIAN LIGHT POLE FOUNDATION, 10' DEEP	
		46,815										46,815		625	23200	46,815	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
		14,988										14,988		625	23400	14,988	FT	NO. 10 AWG POLE AND BRACKET CABLE	
		13,230										13,230		625	24320	13,230	FT	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	
		740										740		625	25600	740	FT	CONDUIT, 4", 725.04	
		630										630		625	25902	630	FT	CONDUIT, JACKED OR DRILLED, 725.04, 4"	
		46										46		625	26253	46	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (IES-II, LED, 480V, 13,400-15,000 LUMENS)	P.1111
		63										63		625	26273	63	EACH	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN (IES-V, LED, 480V, 43,600-51,000 LUMENS)	P.1111
		5										5		625	27503	5	EACH	LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN (LED, 120V, 4,000-6,900 LUMENS)	P.1111
		13,120										13,120		625	29000	13,120	FT	TRENCH	
		4										4		625	29910	4	EACH	TRANSITION JUNCTION BOX	
		66										66		625	29930	66	EACH	MEDIAN JUNCTION BOX	
		28										28		625	30700	28	EACH	PULL BOX, 725.08, 18"	
		3										3		625	30706	3	EACH	PULL BOX, 725.08, 24"	
			20									20		625	31510	20	EACH	PULL BOX REMOVED	
		109										109		625	32000	109	EACH	GROUND ROD	
		5										5		625	34001	5	EACH	POWER SERVICE, AS PER PLAN	P.1111
		13,120										13,120		625	36010	13,120	FT	UNDERGROUND WARNING MARKING TAPE	
		2										2		625	37101	2	EACH	SERVICE TO UNDERPASS LIGHTING, AS PER PLAN	P.1111
			1									1		625	39520	1	EACH	PULL BOX CLEANED	P.1111
	LS											LS		SPECIAL	62540000	LS		MAINTAIN EXISTING LIGHTING	P.1112
			198									198		625	75400	198	EACH	LIGHT POLE REMOVED	
	198		198									396		625	75500	396	EACH	LIGHT POLE FOUNDATION REMOVED	
			5									5		625	75510	5	EACH	POWER SERVICE REMOVED	
			5									5		625	75800	5	EACH	DISCONNECT CIRCUIT	
		5										5		625	98000	5	EACH	LIGHTING, MISC.: ARC FLASH CALCULATIONS AND LABEL	P.1111
																		TRAFFIC SURVEILLANCE	
4,245												4,245		625	22900	4,245	FT	NO. $\frac{1}{0}$ AWG 2400 VOLT DISTRIBUTION CABLE	
492												492		625	23300	492	FT	NO. 2 AWG 2400 VOLT DISTRIBUTION CABLE	
1,608												1,608		625	25506	1,608	FT	CONDUIT, 3", 725.052, AS PER PLAN	
812												812		625	25909	812	FT	CONDUIT, JACKED OR DRILLED, 725.052, AS PER PLAN, 2"	P.1092
1,026												1,026		625	25909	1,026	FT	CONDUIT, JACKED OR DRILLED, 725.052, AS PER PLAN, 3"	P. 1092
197												197		625	25920	197	FT	CONDUIT, MISC.: CONDUIT REMOVED	P. 1092
355												355		625	25803	355	FT	CONDUIT, CONCRETE ENCASED, AS PER PLAN, 2"	P. 1092
1,656												1,656		625	29000	1,656	FT	TRENCH	
5												5		625	30700	5	EACH	PULL BOX, 725.08, 18"	
5												5		625	31510	5	EACH	PULL BOX REMOVED	
1												1		625	31600	1	EACH	PULL BOX, MISC.: ENCOMPASSING WORK PAD FOR ITS INSTALLATION	P. 1092
2												2		625	31600	2	EACH	PULL BOX, MISC.: PULL BOX ADJUSTED TO GRADE	P. 1092
9												9		625	32000	9	EACH	GROUND ROD	
1												1		625	75510	1	EACH	POWER SERVICE REMOVED	
1												1		630	70044	1	EACH	OVERHEAD SIGN SUPPORT, DMS PEDESTAL	
1												1		630	70060	1	EACH	CATWALK, DMS PEDESTAL	
1												1		630	70082	1	EACH	OVERHEAD SIGN SUPPORT FOUNDATION, DMS PEDESTAL	
3												3		633	67100	3	EACH	CABINET FOUNDATION	
19												19		809	00530	19	EACH	ITS JUNCTION BOX, 17x24x6 INCHES	
8												8		809	01900	8	EACH	ITS PULL BOX WITH PAD AND STANDARD LID ASSEMBLY, 32" WIDE, TYPE 1	
4												4		809	01920	4	EACH	ITS PULL BOX WITH PAD AND HINGED LID ASSEMBLY, 32" WIDE, TYPE 1	
61,144												61,144		809	23100	61,144	FT	MICRO-DUCT INNERDUCT, $\frac{14}{10}$	
60												60		809	23900	60	FT	CONDUIT, 2" DIAMETER, HDPE	

Preliminary Plans - For Reference Only

MODEL: Unnamed Plan - Plan 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 9:05:16 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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DESIGN AGENCY: HNTB

DESIGNER: ASEP

REVIEWER: KKP 05/05/26

PROJECT ID: 105743

SHEET: P.278 TOTAL: P.1269

SHEET NUMBER																			PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.1027	P.1028	P.1029	P.1030	P.1031	P.1032	P.1033	P.1034	P.1035	P.1036	P.1037	P.1038	P.1039	P.1040	P.1041	P.1042	P.1043	P.1044	P.1094	01/IMS/05						
																								TRAFFIC SURVEILLANCE (CONT.)	
																		586	586	809	24000	586	FT	CONDUIT, MULTICELL, JACKED OR DRILLED, 4"	
																		1,257	1,257	809	24500	1,257	FT	CONDUIT, 4", MULTICELL, HDPE WITH 4 - 1" INNERDUCTS	
																		1	1	809	56100	1	EACH	ITS POWER SERVICE, POLE MOUNTED, 240/480V, 100 AMP	
																		2	2	809	60000	2	EACH	CCTV IP-CAMERA SYSTEM, PTZ	
																		1	1	809	61040	1	EACH	CCTV POLE, 70' TALL	
																		2	2	809	61090	2	EACH	CCTV LOWERING UNIT	
																		1	1	809	63000	1	EACH	DYNAMIC MESSAGE SIGN (DMS), FULL-SIZE WALK-IN	
																		300	300	809	64550	300	FT	ETHERNET CABLE, OUTDOOR-RATED	
																		2	2	809	65000	2	EACH	ITS CABINET - GROUND MOUNTED	
																		1	1	809	65040	1	EACH	ITS CABINET - DMS	
																		1	1	809	65110	1	EACH	STEP-DOWN TRANSFORMER, 7.5KVA	
																		2	2	809	65990	2	EACH	ITS DEVICE, MISC.: REMOVAL AND DELIVERY OF CCTV AND LOWERING UNIT	P. 1092
																		1	1	809	65990	1	EACH	ITS DEVICE, MISC.: REMOVAL AND DELIVERY OF DYNAMIC MESSAGE SIGN	P. 1092
																		1	1	809	65990	1	EACH	ITS DEVICE, MISC.: REMOVAL OF CCTV POLE, CAMERA, FOUNDATION, AND CABINET ASSEMBLY	P. 1092
																		1	1	809	65990	1	EACH	ITS DEVICE, MISC.: REMOVAL OF DMS SUPPORT STRUCTURE, FOUNDATIONS, AND CABINET ASSEMBLY	P. 1092
																		1	1	809	65990	1	EACH	ITS DEVICE, MISC.: REMOVAL OF ITS CABINET	P. 1092
																			LS	809	70000	LS		MAINTAINING ITS DURING CONSTRUCTION	
																			LS	809	70050	LS		AS-BUILT CONSTRUCTION PLANS	
																								TRAFFIC CONTROL	
	108	410																	518	621	00100	518	EACH	RPM, WHITE	
130	155	109	39																433	621	00100	433	EACH	RPM, WHITE / RED	
				26	120														146	621	00100	146	EACH	RPM, YELLOW / RED	
130	263	519	39	26	120														1,097	621	54000	1,097	EACH	RAISED PAVEMENT MARKER REMOVED	
							3		14		8		3		6		1		35	625	32000	35	EACH	GROUND ROD	
						29		143		52		150		50					424	630	02100	424	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
						155		145		273		102		288		13			976	630	03100	976	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
						123		79		133		92		103		35			565	630	04100	565	FT	GROUND MOUNTED SUPPORT, NO. 4 POST	
						31		38		91		37		37					234	630	06100	234	FT	GROUND MOUNTED SUPPORT, NO. 6 POST	
						26		52		32									110	630	06400	110	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4X7.7	
								70						38		33			141	630	06500	141	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W6X9	
								40											40	630	07000	40	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W8X18	
										38									38	630	07600	38	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12	
														54					54	630	08000	54	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W12X30	
						120		60		56				120					356	630	08004	356	FT	ONE WAY SUPPORT, NO. 3 POST	
						27		27		45		17		43					159	630	08600	159	EACH	SIGN POST REFLECTOR	
						2		10		4				4		2			22	630	09000	22	EACH	BREAKAWAY STRUCTURAL BEAM CONNECTION	
														1					1	630	72320	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 6	
								1		1		1		1					4	630	72330	4	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 10	
						1				2									3	630	72340	3	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 12	
												2		1		1			4	630	72410	4	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 1	
						2		1		1		1							5	630	72420	5	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 2	
									2										2	630	72540	2	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 12	

Preliminary Plans - For Reference Only

GENERAL SUMMARY

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER
ASEP

REVIEWER
KKP 05/06/26

PROJECT ID
105743

SHEET P.279 TOTAL P.1269

MODEL: Unnamed Plan - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 9:05:17 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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SHEET NUMBER																		PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.1027	P.1028	P.1029	P.1030	P.1031	P.1032	P.1034	P.1035	P.1036	P.1038	P.1040	P.1041	P.1042	P.1044	P.1045	P.1046	P.1047	P.1091	01/IMS/05						
																							TRAFFIC CONTROL (CONT.)	
						9		7	3	4		2	1					26	630	75000	26	EACH	SIGN ATTACHMENT ASSEMBLY	
								6										6	630	79100	6	EACH	SIGN HANGER ASSEMBLY, MAST ARM	
							2				1						2	5	630	79500	5	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	
						1		3		4								8	630	79610	8	EACH	SIGN SUPPORT ASSEMBLY, BARRIER MOUNTED	
						392		328	432	207		454	19					1,832	630	80100	1,832	SF	SIGN, FLAT SHEET	
						27		357	121	28		253	60					846	630	80200	846	SF	SIGN, GROUND MOUNTED EXTRUSHEET	
						1,117		809	943	1,275		752	352					5,248	630	80224	5,248	SF	SIGN, OVERHEAD EXTRUSHEET	
													9					9	630	80300	9	SF	SIGN, OVERLAY	
						4		4	2	4		2						16	630	80600	16	EACH	SIGN, DOUBLE FACED, MILE MARKER	
													2					2	630	81000	2	EACH	MAINLINE REFERENCE MARKER	
						1		2	2	1								6	630	81010	6	EACH	RAMP REFERENCE MARKER	
						3		2	2	4		2	2					15	630	81020	15	EACH	CONCRETE MEDIAN BARRIER SIGN BRACKET	
						6		5	5	8		5	2					31	630	82000	31	EACH	SIGN BACKING ASSEMBLY	
						2		1	1	3		1	1					9	630	84010	9	EACH	CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT	
																							FOUNDATION, TYPE TC-21.50	
						2		8	2			4	2					18	630	84500	18	EACH	GROUND MOUNTED STRUCTURAL BEAM SUPPORT	
																							FOUNDATION	
						3		6	6	3		3	1					22	630	84510	22	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	
														52	81	43		176	630	84900	176	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
														1		1		2	630	85100	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
														8	2	4		14	630	85400	14	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND	
																							DISPOSAL	
														56	79	44		179	630	86002	179	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND	
																							DISPOSAL	
														16	4	8		28	630	86102	28	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM	
																							SUPPORT AND DISPOSAL	
														19	17	10		46	630	87400	46	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	
														7	7			14	630	87500	14	EACH	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	
														8	2	2		12	630	89706	12	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL,	
																							TYPE TC-12.30	
														3	7	3		13	630	89804	13	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL,	
																							TYPE TC-15.115	
																2		2	630	89902	2	EACH	REMOVAL OF MISCELLANEOUS TRAFFIC CONTROL ITEM,	
																							MEDIAN FOUNDATION	
																		270	646	10400	270	FT	STOP LINE	
																		480	646	10510	480	FT	CROSSWALK LINE, 12"	
																		41	646	10520	41	FT	CROSSWALK LINE, 24"	
																		10	646	10600	10	FT	TRANSVERSE/DIAGONAL LINE, WHITE	
																		881	646	10620	881	FT	CHEVRON MARKING	
																		1,940	646	10800	1,940	SF	ISLAND MARKING,WHITE	
																		32	646	20300	32	EACH	LANE ARROW	
																		13	646	20320	13	EACH	WRONG WAY ARROW	
																		229	646	20502	229	FT	DOTTED LINE, 4", WHITE (2' LINE, 4' GAP)	
																		5,210	646	20504	5,210	FT	DOTTED LINE, 6", YELLOW (3' DASH, 9' GAP)	
																		9.39	807	10010	9.39	MILE	WET REFLECTIVE TRAFFIC PAINT, EDGE LINE, 6", WHITE	
																		9.38	807	10010	9.38	MILE	WET REFLECTIVE TRAFFIC PAINT, EDGE LINE, 6", YELLOW	
																		15.76	807	10110	15.76	MILE	WET REFLECTIVE TRAFFIC PAINT, LANE LINE, 6"	
																		13,404	807	10310	13,404	FT	WET REFLECTIVE TRAFFIC PAINT, CHANNELIZING LINE, 12"	
																		12,402	807	10410	12,402	FT	WET REFLECTIVE TRAFFIC PAINT, DOTTED LINE, 6", WHITE	
																							(3' DASH, 9' GAP)	
																		495	807	10430	495	FT	WET REFLECTIVE TRAFFIC PAINT, DOTTED LINE, 12", WHITE	
																							(3' DASH, 9' GAP)	
																		35.19	850	10010	35.19	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING,	
																							(ASPHALT)	
																		8,902	850	10110	8,902	FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING,	
																							(ASPHALT)	
																		13,899	850	10130	13,899	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING,	
																							(ASPHALT)	

For Reference Only
Preliminary Plans - Not

GENERAL SUMMARY

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER
ASEP

REVIEWER
KKP 05/07/26

PROJECT ID
105743

SHEET P.280 | TOTAL P.1269

MODEL: Unnamed Plan - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 9:05:18 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GG001.dgn

SHEET NUMBER												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.25	P. 25A	P.29	P.30	P.31	P.33	P.34	P.41	P.46	P.1091			02/IMS/10	02/IMS/10						
																		TRAFFIC SIGNALS	
									80					625	25408	80	FT	CONDUIT, 2", 725.051	
									80					625	29000	80	FT	TRENCH	
									2					625	30706	2	EACH	PULL BOX, 725.08, 24"	
									1					625	32000	1	EACH	GROUND ROD	
									7.5					630	80100	7.5	SF	SIGN, FLAT SHEET	
									1					632	20730	1	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN	
									1					632	20731	1	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	P. 1091
									600					632	40500	600	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
									1					632	64020	1	EACH	PEDESTAL FOUNDATION	
									1					632	89920	1	EACH	PEDESTAL, 10.7' TALL, TRANSFORMER BASE	
																		RETAINING WALLS	
																		FOR RETAINING WALL 1A	P. 829
																		FOR RETAINING WALL 1B	P. 845
																		FOR RETAINING WALL 1C	P. 855
																		FOR RETAINING WALL 1D	P. 870
																		FOR RETAINING WALL 2A	P. 901
																		FOR RETAINING WALL 2	P. 915
																		FOR RETAINING WALL 3	P. 929
																		FOR RETAINING WALL 4	P. 940
																		FOR RETAINING WALL 5A	P. 940
																		FOR RETAINING WALL 5B	P. 962
																		FOR RETAINING WALL 5C	P. 974
																		FOR RETAINING WALL 6	P. 980
																		FOR RETAINING WALL 7	P. 995
																		FOR MOMENT SLABS	P. 1004
																		STRUCTURE OVER 20 FOOT SPAN	
																		FOR STRUCTURE CUY-77-1322	P. 1138
																		FOR STRUCTURE CUY-77-1331	P. 1163
																		MISCELLANEOUS STRUCTURE	
LS														202	11001	LS		STRUCTURE REMOVED, AS PER PLAN A	P.25
LS														202	11001	LS		STRUCTURE REMOVED, AS PER PLAN B	P. 25
LS														202	11001	LS		STRUCTURE REMOVED, AS PER PLAN C	P. 25
LS														202	11001	LS		STRUCTURE REMOVED, AS PER PLAN D	P. 25
	LS													202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN A	P. 25A
	LS													202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN B	P. 25A
	LS													202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN C	P. 25A
	LS													202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN D	P. 25A
	LS													202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN E	P. 25A
																		MAINTENANCE OF TRAFFIC	
									1,834					202	23500	1,834	SY	WEARING COURSE REMOVED	
						3								202	58400	3	EACH	INLET ABANDONED	
									129,457					254	01000	129,457	SY	PAVEMENT PLANING, ASPHALT CONCRETE, T=1.5"	
									11,343					407	20000	11,343	GAL	NON-TRACKING TACK COAT	
									4,681					441	70101	4,681	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN(T=1.5")	P. 35
						575								611	05900	575	FT	15" CONDUIT, TYPE B	
						947								611	97010	947	FT	SLOTTED DRAIN, TYPE 2	
						9								611	98470	9	EACH	CATCH BASIN, NO. 2-2B	
						6								611	99150	6	EACH	INLET ADJUSTED TO GRADE	
						3								611	99154	3	EACH	INLET RECONSTRUCTED TO GRADE	
						1								611	99574	1	EACH	MANHOLE, NO. 3	
					1,490									614	11110	1,490	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
									27,114					614	11630	27,114	FT	INCREASED BARRIER DELINEATION	
		10							40					614	12380	50	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
									16					614	12400	16	EACH	WORK ZONE IMPACT ATTENUATOR, MISC.: 48" WIDE HAZARD (UNIDIRECTIONAL)	P. 31
														614	12420	LS		DETOUR SIGNING	

Preliminary Plans - For Reference Only

GENERAL SUMMARY

DESIGN AGENCY
HNTB

DESIGNER
ASEP

REVIEWER
KKP 05/08/26

PROJECT ID
105743

SHEET P.281 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Unnamed Plan - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 9:05:19 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GG001.dgn
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GG001_Pen.tbl

SHEET NUMBER												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P. 25A	P.26	P.29	P.31	P.33	P.35	P.41	P.46					01/IMS/05	02/IMS/10						
																		MAINTENANCE OF TRAFFIC (CONT.)	
			42									42		614	12484	42	EACH	WORK ZONE INCREASED PENALTIES SIGN	
												40		614	12500	40	EACH	REPLACEMENT SIGN	
												2		614	12756	2	EACH	WORK ZONE CROSSOVER LIGHTING SYSTEM	
						2,309						2,309		614	12801	2,309	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	P. 35
		250					833					1,083		614	13000	1,083	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
							2,065					2,065		614	13310	2,065	EACH	BARRIER REFLECTOR, TYPE 1, 1 WAY	
							1,434					1,434		614	13310	1,434	EACH	BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL	
							58					58		614	13312	58	EACH	BARRIER REFLECTOR, TYPE 2, 1 WAY	
							2,480					2,480		614	13350	2,480	EACH	OBJECT MARKER, ONE WAY	
							558					558		614	13360	558	EACH	OBJECT MARKER, TWO WAY	
												480		614	18601	480	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	P. 32
						8.81						8.81		614	20011	8.81	MILE	WORK ZONE LANE LINE, CLASS I, 6", AS PER PLAN	P. 30
						35.7						35.7		614	20056	35.7	MILE	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	
						21.19						21.19		614	22011	21.19	MILE	WORK ZONE EDGE LINE, CLASS I, 6", AS PER PLAN	P. 30
						103.17						103.17		614	22056	103.17	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT	
						22,382						22,382		614	23011	22,382	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", AS PER PLAN	P. 30
						75,157						75,157		614	23110	75,157	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	
						8,992						8,992		614	24001	8,992	FT	WORK ZONE DOTTED LINE, CLASS I, AS PER PLAN	P. 30
						48,835						48,835		614	24102	48,835	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	
						72						72		614	26001	72	FT	WORK ZONE STOP LINE, CLASS I, AS PER PLAN	P. 30
						810						810		614	26200	810	FT	WORK ZONE STOP LINE, CLASS I, 642 PAINT	
						1,070						1,070		614	27010	1,070	FT	WORK ZONE CROSSWALK LINE, CLASS I, 12"	
							500					500		614	28400	500	FT	WORK ZONE GORE MARKING, CLASS II, 740.06, TYPE I	
						23						23		614	30001	23	EACH	WORK ZONE ARROW, CLASS I, AS PER PLAN	P. 30
						77						77		614	30200	77	EACH	WORK ZONE ARROW, CLASS I, 642 PAINT	
						2						2		614	31200	2	EACH	WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT	
												LS		615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
		400					3,892					4,292		615	20000	4,292	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	
												870		616	10000	870	MGAL	WATER	
							26,850					26,850		622	41011	26,850	FT	PORTABLE BARRIER, 50", AS PER PLAN	P. 31
							7,600					7,600		622	41011	7,600	FT	PORTABLE BARRIER, 50", AS PER PLAN B	P. 31
		8,000					85,090					93,090		622	41100	93,090	FT	PORTABLE BARRIER, UNANCHORED	
							730					730		622	41110	730	FT	PORTABLE BARRIER, ANCHORED	
							728					728		630	80300	728	SF	SIGN, OVERLAY	
						9,824						9,824		642	30000	9,824	FT	REMOVAL OF PAVEMENT MARKING	
						7						7		642	30020	7	EACH	REMOVAL OF PAVEMENT MARKING	
						25.03						25.03		642	30030	25.03	MILE	REMOVAL OF PAVEMENT MARKING	
					250,000							250,000		SPECIAL	69098000	250,000	EACH	REIMBURSEMENT FOR ITEMS PERMANENTLY DAMAGED BY TRAFFIC	P. 35
			480									480		808	18700	480	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	
				144								144		829	00100	144	SNMT	WORK ZONE EGRESS WARNING SYSTEM	
				216								216		896	00010	216	SNMT	PORTABLE NON-INTRUSIVE TRAFFIC SENSOR, CLASS I	
				216								216		896	00020	216	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN	
																		INCIDENTALS	
		LS										LS		614	11000	LS		MAINTAINING TRAFFIC	
60												60		619	16021	60	MNTH	FIELD OFFICE, TYPE C, AS PER PLAN	P. 25A
	LS											LS		623	10001	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN	P. 26
												LS		624	10000	LS		MOBILIZATION	

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: Unnamed Plan - Plan 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 9:05:19 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GG001.dgn
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DESIGN AGENCY
HNTB

DESIGNER ASEP
REVIEWER KKP 05/08/26
PROJECT ID 105743
SHEET P. 281A TOTAL P.1269

REF NO.	SHEET NO.	LOCATION	STATION TO STATION			SIDE	202 PAVEMENT REMOVED SY	202 WALK REMOVED SF	202 STEPS REMOVED FT	202 CONCRETE BARRIER REMOVED FT	202 TRAFFIC ISLAND REMOVED SY	202 CURB REMOVED FT	202 GUARDRAIL REMOVED FT	202 IMPACT ATTENUATOR REMOVED EACH	202 FENCE REMOVED FT	202 BRIDGE RAILING REMOVED FT	202 GATE REMOVED EACH	202 REMOVAL MISC.: RAILROAD RAILS AND TIES FT	606 GUARDRAIL, TYPE MGS FT	606 ANCHOR ASSEMBLY, TYPE E EACH	606 ANCHOR ASSEMBLY, TYPE T EACH	606 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1 EACH	606 IMPACT ATTENUATOR, TYPE 2 (UNIDIRECTIONAL) EACH	607 FENCE, TYPE CLT FT	607 FENCE, TYPE CLT, AS PER PLAN A FT	607 FENCE, TYPE CLT, AS PER PLAN B FT	607 FENCE, TYPE CLT, AS PER PLAN C FT	607 GATE, TYPE CLT EACH	608 4" CONCRETE WALK SF	608 CURB RAMP SF	609 CURB, TYPE 2-A FT	609 CURB, TYPE 4-C FT	609 CURB, TYPE 6 FT	609 4" CONCRETE TRAFFIC ISLAND SY	LENGTH DEDUCTED FOR SIGN STRUCTURES IN BARRIER FT	LENGTH DEDUCTED FOR LIGHTING STRUCTURES IN BARRIER FT	LENGTH DEDUCTED FOR DRAINAGE STRUCTURES IN BARRIER FT	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE B1 FT	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE C FT	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE C1 FT	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE D FT	622 BARRIER TRANSITION EACH	622 CONCRETE BARRIER END SECTION, TYPE D EACH	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1 EACH	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C EACH	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1 EACH	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D EACH	622 BARRIER, MISC.: CONCRETE BARRIER END SECTION, TYPE C EACH	625 GROUND ROD EACH
GR-1	P.293	I.R. 77	51+09.00	TO	52+85.61	RT													162.5		1																												
R-1	P.293	I.R. 77	51+23.00	TO	52+85.00	RT							160																																			
R-2	P.293	I.R. 77	51+23.00	TO	52+77.00	RT						153																																			
BR-16	P.294	I.R. 77	69+50.00	TO	74+50.00	LT/RT																																								
R-3	P.294	I.R. 77	72+80.00	TO	76+29.00	RT							350																																		
GR-2	P.294	I.R. 77	73+12.89	TO	76+40.00	RT													175.0	1		1																									
BR-1	P.294-P.295	I.R. 77	74+50.00	TO	99+90.00	LT/RT																																								
R-4	P.294	I.R. 77	74+50.00	TO	81+06.00	LT/RT	7354																																							
R-5	P.294	I.R. 77	74+50.00	TO	81+40.00	RT						709																																		
R-6	P.294-P.295	I.R. 77	74+50.00	TO	84+32.00	LT						979																																		
R-7	P.294	I.R. 77	74+75.00	TO	75+45.00	LT/RT				70																																			
C-1	P.294	I.R. 77	75+00.00	TO	75+50.00	RT																																						
C-2	P.294	I.R. 77	75+00.00	TO	76+00.00	LT																																						
R-8	P.294	I.R. 77	75+92.00	TO	79+58.00	LT				50			314																																	
GR-3	P.294	I.R. 77	76+00.00	TO	79+93.82	LT													162.5	1		1																									
C-3	P.294	I.R. 77	76+40.00	TO	81+05.60	RT																																						
R-9	P.294-P.295	I.R. 77	76+82.00	TO	88+91.00	LT/RT				1209																																			
C-4	P.294-P.295	I.R. 77	77+40.00	TO	84+01.07	LT																																						
R-10	P.294-P.297	I.R. 77	81+06.00	TO	108+64.00	LT/RT	35624																																						
R-11	P.294-P.296	I.R. 77	81+40.00	TO	107+29.00	RT						2610																																		
R-12	P.295-P. 297	I.R. 77	84+32.00	TO	108+22.00	LT						2379																																		
GR-4	P.295-P.297	I.R. 77	307+02.63 (RAMP A3)	TO	204+00.00 (RAMP B2)	LT													362.5	1		1																									
R-13	P.295	I.R. 77	85+45.00	TO	87+26.00	LT							178																																	
R-14	P.295-P.296	I.R. 77	86+60.00	TO	99+70.00	RT							1326																																	
GR-5	P.295	I.R. 77	86+91.06	TO	89+32.18	RT													112.5	1		1																									
R-15	P.295-P.296	I.R. 77	89+19.00	TO	99+30.00	LT				56			993																																	
GR-6	P.295-P.296	I.R. 77	89+32.18	TO	99+60.00	RT													525.0			2																									
F-2	P.1174	I.R. 77	89+78.60	TO	91+04.10	LT									122									122																							
F-13	P.1174	I.R. 77	90+64.20	TO	93+80.20	RT									316		1							317				1																		2
R-16	P.295	I.R. 77	91+37.00	TO	93+64.00	LT/RT				227																																				
F-3	P.1174	I.R. 77	91+41.40	TO	95+20.20	LT									372									370																							1
F-14	P.1174	I.R. 77	94+18.20	TO	95+68.00	RT									159									154																							
F-15	P.1174	I.R. 77	95+99.40	TO	98+49.40	RT									259									254																							
C-5	P.296	I.R. 77	96+75.00	TO	99+60.00	RT																																							
F-4	P.1174-P.1176	I.R. 77	96+91.00	TO	205+87.9 (RAMP B2)	LT									1510									1501																							
R-17	P.296	I.R. 77	97+01.00	TO	111+59.00	LT/RT				1458																																				
BR-2	P.296-P.297	I.R. 77	99+60.00	TO	106+00.00 (RAMP B1)	RT																																							
BR-3	P.296	I.R. 77	99+90.00	TO	100+75.00	LT/RT																																							
BR-4	P.296-P.299	I.R. 77	100+75.00	TO	133+85.00	LT/RT																																							
R-18	P.296	I.R. 77	104+39.00	TO	106+17.00	RT				50			127																																	
C-24	P.296-P.297	I.R. 77	106+05.21	TO	108+61.75	LT																																							
GR-8	P.296-P.297	I.R. 77	106+69.97	TO	113+20.00	RT													475.0			1	1																							
R-19	P.296-P.297	I.R. 77	107+30.00	TO	118+00.00	RT						1076																																		
R-20	P.297-P.298	I.R. 77	108+22.00	TO	120+57.00	LT						1261																																		
R-21	P.297	I.R. 77	108+64.00	TO	117+84.00	LT/RT	10290																																						
C-6	P.297	I.R. 77	108+64.93	TO	111+80.00	LT																																						
R-22	P.297	I.R. 77	109+36.00	TO	113+18.00	RT							378																																
GR-9	P.297	I.R. 77	111+80.00	TO	115+35.74	LT													175.0	1		1																									
R-23	P.297	I.R. 77	111+91.00	TO	115+65.00	LT							378																																
C-7	P.297	I.R. 77	113+20.00	TO	117+83.77	RT																																						
R-24	P.297-P.299	I.R. 77	113+29.00	TO	141+46.00	LT/RT				2817																																			
R-25	P.297	I.R. 77	115+46.00	TO	117+14.00	RT				40			126																																
R-26	P.297-P.299	I.R. 77	117+84.00	TO	132+91.00	LT/RT	21419																																						
R-27	P.297-P.299	I.R. 77	118+00.00	TO	132+74.00	RT						1455																																		
R-28	P.298-P.300	I.R. 77	120+57.00	TO	151+19.00	LT						3087																																		
GR-7	P.298	I.R. 77	126+05.57	TO	128+21.40	RT													150.0	1	1																									
F-17	P.1176-P.1178	I.R. 77	400+48.2 (RAMP B4)	TO	111+82.3 (RAMP C1)	RT									2715									2715																							
GR-10	P.297-P.298	I.R. 77	301+88.00 (RAMP B3)	TO	131+64.00	LT													2237.5		1	1																									
R-29	P.298	I.R. 77	129+00.00	TO	132+07.00	RT				50			254																																	
GR-11	P.298-P.299	I.R. 77	131+64.00	TO	134+01.42	LT													162.5	1		1																									
R-30	P.299-P.300	I.R. 77	132+74.00	TO	147+26.00	RT						1465																																		
R-31	P.299	I.R. 77	132+75.00	TO	136+52.00	LT				39			339																																	
R-32	P.299	I.R. 77	132+79.00	TO	133+56.00	RT							77																																	
R-33	P.299-P.300	I.R. 77	132+91.00	TO	146+43.00	LT/RT	15165																																						
C-8	P.299	I.R. 77	132+91.43	TO	141+65.00	RT																																						
GR-12	P.299	I.R. 77	132+91.47	TO	141+65.00	RT													825.0			1	1																									
BR-5	P.299	I.R. 77	133+85.00	TO	139+05.00	LT/RT																																							
R-34	P.299-P.300	I.R. 77	138+55.00	TO	146+48.00	RT							790																																	
BR-6	P.299-P.300	I.R. 77	139+05.00	TO	149+20.00	LT/RT																																							
R-35	P.299-P.300	I.R. 77	140+75.00	TO	145+01.00	LT							429																																	
F-6	P.1178	I.R. 77	141+21.20	TO	141+61.30	LT									47									47																							
F-5	P.1176-P.1178	I.R. 77	300+39.1 (RAMP B4)	TO	141+25.90	LT									2996									3038																							
GR-14	P.299-P.300	I.R. 77	141+25.00	TO	145+63.00	LT													175.0	1		1																									
GR-13	P.299-P.300	I.R. 77	141+65.00	TO	145+04.30	RT													200.0		1	1																									
C-9	P.299-P.300	I.R. 77	142+65.00	TO	146+42.86	RT																																							
R-36	P.299-P.301	I.R. 77	142+79.00	TO	169+76.00	LT/RT				2697																																			
F-7	P.1178	I.R. 77	143+01.70	TO	147+18.70	LT									426									426																							
C-10	P.299-P.300	I.R. 77	143+25.00	TO	150+65.93	LT																																							
F-18	P.1178-P.1179	I.R. 77	300+99.0 (RAMP C3)	TO	154+91.60	RT									1163									1163																							
R-37	P.300-P.301	I.R. 77	146+43.00	TO	169+81.00	LT/RT	29800																																						
R-38	P.300	I.R. 77	147+26.00	TO	156+92.00	RT						968																																		
R-39	P.300	I.R. 77	149+02.00	TO	151+15.00	LT							213																																	
C-11	P.300	I.R. 77	146+46.39	TO	155+00.00	RT																																							
BR-7	P.300	I.R. 77	149+20.00	TO	151+80.00	LT/RT																																							
R-40	P.300	I.R. 77	151+19.00	TO	156+96.00	LT						578																																		
BR-8	P.300-P.301	I.R. 77	151+80.00	TO	167+80.00	LT/RT																																							
R-41	P.300	I.R. 77	152+40.00	TO	154+08.00	LT				41			128																																	
TOTALS CARRIED TO SHEET P.284							119652	0	0	8804	0	16720	6560	0	10085	0	1	0	5900	8	4	13	2	10107	0	0	0	1	0	0	0	6335	0	0	60	320	740	1345	281	8465	4950	1	10	4	6	65	38	2	3

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

ROADWAY SUBSUMMARY

DESIGN AGENCY
HNTB

DESIGNER ASEP

REVIEWER KKP 05/09/26

PROJECT ID 105743

SHEET P.282 TOTAL P.1269

MODEL: roadway subsum - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 5:25:22 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCDv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GS002.dgn

REF NO.	SHEET NO.	LOCATION	STATION TO STATION			SIDE	202 PAVEMENT REMOVED	202 WALK REMOVED	202 STEPS REMOVED	202 CONCRETE BARRIER REMOVED	202 TRAFFIC ISLAND REMOVED	202 CURB REMOVED	202 GUARDRAIL REMOVED	202 IMPACT ATTENUATOR REMOVED	202 FENCE REMOVED	202 BRIDGE RAILING REMOVED	202 GATE REMOVED	202 REMOVAL MISC.: RAILROAD RAILS AND TIES	606 GUARDRAIL, TYPE MGS	606 ANCHOR ASSEMBLY, TYPE E	606 ANCHOR ASSEMBLY, TYPE T	606 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	606 IMPACT ATTENUATOR, TYPE 2 (UNIDIRECTIONAL)	607 FENCE, TYPE CLT	607 FENCE, TYPE CLT, AS PER PLAN A	607 FENCE, TYPE CLT, AS PER PLAN B	607 FENCE, TYPE CLT, AS PER PLAN C	607 GATE, TYPE CLT	608 4" CONCRETE WALK	608 CURB RAMP	609 CURB, TYPE 2-A	609 CURB, TYPE 4-C	609 CURB, TYPE 6	609 4" CONCRETE TRAFFIC ISLAND	LENGTH DEDUCTED FOR SIGN STRUCTURES IN BARRIER	LENGTH DEDUCTED FOR LIGHTING STRUCTURES IN BARRIER	LENGTH DEDUCTED FOR DRAINAGE STRUCTURES IN BARRIER	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE B1	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE C	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE C1	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE D	622 BARRIER TRANSITION	622 CONCRETE BARRIER END SECTION, TYPE D	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	622 BARRIER, MISC.: CONCRETE BARRIER END SECTION, TYPE C	625 GROUND ROD
							SY	SF	FT	FT	SY	FT	FT	EACH	FT	FT	EACH	FT	FT	EACH	EACH	EACH	EACH	FT	FT	FT	FT	EACH	SF	SF	FT	FT	FT	SY	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT	EACH
R-42	P.300-P.301	I.R. 77	152+60.00	TO	163+38.00	RT				123			969									1																												
GR-15	P.300-P.301	I.R. 77	152+63.92	TO	168+90.00	RT													162.5	1		1															80				1173		1			9			
F-19	P.1179-P.1180	I.R. 77	154+91.60	TO	171+00.00	RT									1621											1621																						
R-43	P.300-P.301	I.R. 77	156+97.00	TO	169+88.00	LT				1283																																							
R-44	P.301	I.R. 77	157+60.00	TO	166+42.00	LT												1724																															
R-45	P.301	I.R. 77	157+67.00	TO	162+93.00	RT						532																																					
R-46	P.301	I.R. 77	163+25.00	TO	169+21.00	RT				335																																							
BR-9	P.301-P.302	I.R. 77	167+80.00	TO	172+95.00	LT/RT																																	24		515								
R-47	P.302	I.R. 77	170+32.00	TO	174+96.00	RT						465																																					
R-48	P.302	I.R. 77	170+41.00	TO	174+98.00	RT							457																																				
R-49	P.302-P.304	I.R. 77	170+81.00	TO	197+25.00	LT/RT				2644																																							
R-50	P.302-P.303	I.R. 77	170+86.00	TO	192+13.00	LT/RT	27535																																									
GR-16	P.302	I.R. 77	171+00.00	TO	175+00.00	RT													350.0			2																											
C-12	P.302	I.R. 77	171+00.00	TO	175+00.00	RT																																400											
F-20	P.1180-P.1181	I.R. 77	171+00.00	TO	175+06.70	RT									433									433																									
R-51	P.302	I.R. 77	171+02.00	TO	174+95.00	LT				50			348																																				
R-52	P.302	I.R. 77	171+08.00	TO	174+95.00	LT						388																																					
BR-10	P.302-P.304	I.R. 77	172+95.00	TO	199+38.00	LT/RT																																	20	96	80			2643					16		
F-21	P.1181-P.1182	I.R. 77	176+15.20	TO	3+55.7 (PERSHING AVE.)	RT									2184									2227																									
R-53	P.302	I.R. 77	176+24.00	TO	178+72.00	RT				50			204																																				
R-54	P.302-P.303	I.R. 77	176+24.00	TO	190+94.00	RT						1474																																					
R-55	P.302-P.303	I.R. 77	176+25.00	TO	192+40.00	LT						1614																																					
R-56	P.302	I.R. 77	176+26.00	TO	178+04.00	LT							176																																				
F-23	P.1181-P.1183	I.R. 77	176+30.00	TO	208+30.20	LT									2384									2141																									
GR-18	P.302-P.303	I.R. 77	176+39.11	TO	203+87.84 (RAMP D2)	LT													1512.5	1		1																											
GR-17	P.302-P.303	I.R. 77	176+48.00	TO	103+41.88 (RAMP D1)	RT													1237.5			2															20		88							2		2	
C-13	P.302-P.303	I.R. 77	176+48.00	TO	183+99.10	RT																														1739												
R-57	P.303	I.R. 77	186+70.00	TO	188+84.00	RT							213																																				
R-58	P.303-P.304	I.R. 77	190+94.00	TO	205+18.00	RT						1427																																					
R-59	P.303-P.306	I.R. 77	192+13.00	TO	220+84.00	LT/RT	28059																																									
R-60	P.303-P.306	I.R. 77	192+40.00	TO	211+80.00	LT						1957																																					
GR-19	P.303-P.304	I.R. 77	194+71.85	TO	198+50.00	RT													200.0	1		1																											
R-109	P.303-P.304	I.R. 77	194+92.00	TO	198+60.00	RT							366																																				
R-61	P.304-P.306	I.R. 77	197+17.00	TO	211+80.00	LT				56			1409																																				
GR-20	P.304	I.R. 77	197+50.00	TO	200+62.50	LT													137.5	1		1																											
C-14	P.304-P.306	I.R. 77	198+50.00	TO	210+75.00	LT																														1226												
R-62	P.304-P.306	I.R. 77	198+65.00	TO	215+65.00	LT/RT				1700																																						
BR-11	P.304	I.R. 77	199+38.00	TO	204+03.00	LT/RT																																	16	80	465				8				
R-63	P.304	I.R. 77	202+28.00	TO	204+07.00	RT							179																																				
BR-12	P.304-P.306	I.R. 77	204+03.00	TO	209+56.00	LT/RT																																	16				553						
BR-13	P.306	I.R. 77	209+56.00	TO	215+65.00	LT/RT																																	10	24	40	609			8				
BR-29	P.306	I.R. 77	210+75.00	TO	213+75.00	LT																																					270				2		
R-64	P.306	I.R. 77	211+25.00	TO	214+30.00	LT							307																																				
GR-23	P.306	I.R. 77	211+33.75	TO	213+21.25	RT													137.5	1																											
BR-15	P.306-P.308	I.R. 77	217+91.00	TO	225+40.00	LT/RT																																		40	749				4				
R-65	P.306-P.308	I.R. 77	217+91.00	TO	225+40.00	LT/RT				749																																						
CR-8	P.698	CHARD AVE	157+09.00	TO	157+30.00	RT		286				24																								181												
CR-9	P.698	CHARD AVE	157+24.00	TO	157+33.00	RT		78				6																								91												
SW-1	P.698	CHARD AVE	156+91.00	TO	157+09.00	RT						18																									114		18									
SW-2	P.698	CHARD AVE	157+23.00			RT						233					329																			830		233									
SW-3	P.698	CHARD AVE	157+05.00	TO	157+24.00	RT						24																									83		24									
F-24	P.1179	CHARD AVE	156+25.00	TO	157+08.00	LT		1142	11						833																																	
CR-1	P.294	RAMP A2	16+17.00	TO	16+30.00	RT		138				31																								160												
GR-22	P.294	RAMP A2	15+06.92	TO	16+19.49	RT													87.5		1	1																							4		1				
R-108	P.294	RAMP A2	15+07.00	TO	16+19.00	RT				22			114																																				
CR-2	P.310	RAMP A3	300+85.00	TO	300+99.00	LT		135				46																								148												
CR-3	P.310	RAMP A3	300+58.00	TO	300+69.00	LT																														82												
CR-5	P.310	RAMP A3	300+34.00	TO	300+46.00	LT/RT																														92												
CR-6	P.310	RAMP A3	300+09.00	TO	300+35.00	RT		155				32																								186												
R-66	P.310-P.311	RAMP A3	300+35.00	TO	307+34.00	RT						701																																					
R-67	P.310-P.311	RAMP A3	300+87.00	TO	307+34.00	LT						678																																					
R-68	P.310-P.311	RAMP A3	300+27.00	TO	307+03.00	LT/RT	2070																																									
GR-24	P.310	RAMP A3	300+14.99	TO	301+46.33	RT													12.5	1		1																							33		1				
R-69	P.310	RAMP A3	300+15.00	TO	301+62.00	RT				21			132																																				
C-15	P.310-P.311	RAMP A3	300+86.23	TO	307+02.63	LT																																654												
I-1	P.310	RAMP A3	300+28.00	TO	300+99.00	LT/RT					221																														196										
F-1	P.1173-P.1174	RAMP A3	301+37.10	TO	89+45.2 (I.R. 77)	LT									1068									1080																									
CR-4	P.313	RAMP A4	400+12.00	TO	400+30.00	RT		126				65																								142												
CR-7	P.313	RAMP A4	400+51.00	TO	400+66.00	LT		112				30																								146												
BR-31	P.313	RAMP A4	400+56.68	TO	400+95.00	LT																																					25				2		
R-70	P.313-P.314	RAMP A4	400+30.00	TO	406+05.00	RT						579																																					
R-71	P.313-P.314	RAMP A4	400+59.00	TO	406+05.00	LT						547																																					
F-12	P.1173-P.1174	RAMP A4	400+19.10	TO	89+33.0 (I.R. 77)	RT									1393		2							1387						2																		
R-72	P.313-P.314	RAMP A4	400+26.00	TO	405+70.00	LT/RT	1595																																									
R-73	P.313	RAMP A4	400+57.00	TO	401+74.00	LT				20			112																																				
C-16	P.313	RAMP A4	400+30.11	TO	400+89.01	RT																														63												
R-74	P.316	RAMP B1	106+40.00	TO	108+19.00	RT				40			140																																				
R-75	P.315-P.316	RAMP B1	104+95.00	TO	109+16.00	RT						420																																					
R-76	P.315-P.316	RAMP B1	104+95.00	TO	109+16.00	LT						426																																					
R-77	P.315-P.316	RAMP B1	104+35.00	TO	109+16.00	LT/RT	1487																																									
GR-25	P.315-P.316	RAMP B1	104+58.38	TO	105+65.89	LT													37.5	1	1																											
F-16	P.1175-P.1176	RAMP B1	100+75.00	TO	109+58.10	RT									877									884																									
TOTALS CARRIED TO SHEET P.284							60746	2172	11	7093	221	11717	5126	0	10793	329	2	1724	3875	7	2	10	0	8152	0	0	1621	2	1027	1228	717	3365	275	196	30	176	340	2338	88	3196	1705	0	6	20	2	16	16	2	0

Preliminary Plans - For Reference Only

ROADWAY SUBSUMMARY

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER
ASEP

REVIEWER
KKP 05/01/26

PROJECT ID
105743

SHEET P.283 | TOTAL P.1269

MODEL: roadway subsum - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 5:25:23 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCIVv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GS002.dgn
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GS002_Pen.tbl

REF NO.	SHEET NO.	LOCATION	STATION TO STATION			SIDE	202 PAVEMENT REMOVED SY	202 WALK REMOVED SF	202 STEPS REMOVED FT	202 CONCRETE BARRIER REMOVED FT	202 TRAFFIC ISLAND REMOVED SY	202 CURB REMOVED FT	202 GUARDRAIL REMOVED FT	202 IMPACT ATTENUATOR REMOVED EACH	202 FENCE REMOVED FT	202 BRIDGE RAILING REMOVED FT	202 GATE REMOVED EACH	202 REMOVAL MISC.: RAILROAD RAILS AND TIES FT	606 GUARDRAIL, TYPE MGS FT	606 ANCHOR ASSEMBLY, TYPE E EACH	606 ANCHOR ASSEMBLY, TYPE T EACH	606 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1 EACH	606 IMPACT ATTENUATOR, TYPE 2 (UNIDIRECTIONAL) EACH	607 FENCE, TYPE CLT FT	607 FENCE, TYPE CLT, AS PER PLAN A FT	607 FENCE, TYPE CLT, AS PER PLAN B FT	607 FENCE, TYPE CLT, AS PER PLAN C FT	607 GATE, TYPE CLT EACH	608 4" CONCRETE WALK SF	608 CURB RAMP SF	609 CURB, TYPE 2-A FT	609 CURB, TYPE 4-C FT	609 CURB, TYPE 6 FT	609 4" CONCRETE TRAFFIC ISLAND SY	LENGTH DEDUCTED FOR SIGN STRUCTURES IN BARRIER FT	LENGTH DEDUCTED FOR LIGHTING STRUCTURES IN BARRIER FT	LENGTH DEDUCTED FOR DRAINAGE STRUCTURES IN BARRIER FT	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE B1 FT	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE C FT	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE C1 FT	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE D FT	622 BARRIER TRANSITION EACH	622 CONCRETE BARRIER END SECTION, TYPE D EACH	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1 EACH	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C EACH	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1 EACH	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D EACH	622 BARRIER, MISC.: CONCRETE BARRIER END SECTION, TYPE C EACH	625 GROUND ROD EACH
C-25	P.316	RAMP B1	108+08.00	TO	109+15.89	LT																									109																		
C-17	P.316	RAMP B1	106+00.00	TO	109+15.89	RT																									316																		
R-78	P.317	RAMP B2	202+20.00	TO	204+73.00	LT						253																																				
R-12	P.317	RAMP B2	202+62.00	TO	204+73.00	LT/RT	570																																								
C-18	P.317	RAMP B2	202+62.20	TO	204+73.29	LT																									211																		
R-79	P.318-P.319	RAMP B3	301+70.00	TO	308+63.00	RT						689																																			
R-80	P.318-P.319	RAMP B3	301+70.00	TO	308+63.00	LT						694																																			
R-81	P.318-P.319	RAMP B3	301+70.00	TO	307+63.00	LT/RT	1894																																							
R-82	P.318-P.319	RAMP B3	301+76.00	TO	128+77 (I.R. 77)	LT				50			1468																																	
C-19	P.318	RAMP B3	301+70.17	TO	303+50.00	LT/RT																									358																		
R-83	P.321-P.322	RAMP B4	401+75.00	TO	405+35.00	RT						358																																			
R-84	P.321-P.322	RAMP B4	401+75.00	TO	405+35.00	LT						364																																			
R-85	P.321-P.322	RAMP B4	401+75.00	TO	405+23.00	LT/RT	943																																							
R-86	P.323-P.325	RAMP C1	104+65.00	TO	112+00.00	RT						733																																			
R-87	P.323-P.325	RAMP C1	104+65.00	TO	112+00.00	LT						738																																			
R-88	P.323-P.325	RAMP C1	104+81.00	TO	112+00.00	LT/RT	1914																																							
GR-26	P.324-P.325	RAMP C1	105+04.37	TO	110+03.04	LT													487.5		1																									
GR-29	P.324	RAMP C1	104+57.71	TO	105+56.56	LT													87.5		1																									
R-90	P.324-P.325	RAMP C1	104+65.00	TO	111+30.00	LT							667	1																															
C-20	P.324-P.325	RAMP C1	104+81.00	TO	112+00.00	LT/RT																									1261																		
BR-14	P.326-P.327	RAMP C2	201+50.00	TO	209+93.40	LT																														80							614			10								
F-8	P.1179	RAMP C2	203+00.00	TO	209+93.40	LT																												592																		
R-91	P.326-P.327	RAMP C2	201+50.00	TO	204+80.00	RT						332																																		
R-92	P.326-P.327	RAMP C2	201+50.00	TO	204+80.00	LT						330																																		
R-93	P.326-P.327	RAMP C2	201+50.00	TO	204+28.00	LT/RT	756																																							
BR-17	P.326-P.327	RAMP C2	201+50.00	TO	209+93.40	LT																														80							614							10		
R-94	P.326-P.327	RAMP C2	200+80.00	TO	204+78.00	RT							398	1																															
R-95	P.326	RAMP C2	201+31.00	TO	203+38.00	LT							208																																	
C-21	P.326	RAMP C2	201+50.00	TO	203+00.00	RT																									301																		
R-96	P.328-P.329	RAMP C3	300+47.00	TO	305+02.00	RT						455																																		
R-97	P.328-P.329	RAMP C3	300+47.00	TO	305+02.00	LT						456																																		
R-98	P.328-P.329	RAMP C3	300+47.00	TO	304+21.00	LT/RT	1010																																							
GR-23	P.328	RAMP C3	300+61.50	TO	302+74.00	LT													150	1	1																									
C-22	P.328-P.329	RAMP C3	300+46.76	TO	304+21.41	LT/RT																									761																		
R-99	P.332	RAMP D1	103+37.00	TO	106+50.00	RT						311																																		
R-100	P.332	RAMP D1	103+37.00	TO	106+50.00	LT						317																																		
R-101	P.332	RAMP D1	103+42.00	TO	106+50.00	LT/RT	874																																							
GR-28	P.332	RAMP D1	103+41.88	TO	104+64.61	RT													87.5		1	1																								
C-23	P.332	RAMP D1	103+41.90	TO	106+50.00	RT																									308																		
R-102	P.333-P.334	RAMP D2	203+14.00	TO	205+90.00	RT						274																																		
R-103	P.333-P.334	RAMP D2	203+14.00	TO	205+90.00	LT						277																																		
R-104	P.333-P.334	RAMP D2	202+86.00	TO	205+90.00	LT/RT	864																																							
GR-27	P.335-P.336	RAMP E1	102+90.48	TO	106+50.27	RT													325		2																									
CR-10	P.336-P.337	RAMP E1	113+48.00	TO	113+78.00	LT		220				44																																		
CR-11	P.337	RAMP E1	112+24.00	TO	112+51.00	RT		82				41																																		
CR-12	P.337	RAMP E1	112+72.00	TO	112+85.00	RT																									298																		
CR-13	P.337	RAMP E1	113+18.00	TO	113+34.00	RT																									330																		
R-105	P.336-P.337	RAMP E1	107+50.00	TO	112+48.00	RT						599																			97																		
R-106	P.336-P.337	RAMP E1	107+50.00	TO	113+53.00	LT						656																			97																		
R-107	P.336-P.337	RAMP E1	105+70.00	TO	113+50.00	LT/RT	2775																																							
F-22	P.1182-P.1184	RAMP E1	100+09.80	TO	6+90.2 (BROADWAY AVE.)	RT									1410									1407																					
I-2	P.337	RAMP E1	112+31.00	TO	113+38.00	RT		1273				309																																		
CR-14	P.343	MUP WEST	30+21.00	TO	30+47.00	LT/RT						18																			267																		
CR-15	P.343	MUP WEST	30+84.00	TO	30+09.00	LT/RT						40																			333																		
CR-16	P.343	MUP WEST	31+25.00	TO	31+51.00	LT/RT		157				30																			432																		
CR-17	P.347	MUP WEST	52+59.00	TO	52+88.00	LT/RT		164				39																			375																		
F-9	P.1179-P.1180	MUP WEST	12+30.00	TO	22+05.20	LT									772										992																					
F-10	P.1180-P.1181	MUP WEST	22+05.20	TO	30+52.50	LT									409									852																					
F-11	P.1181-P.1182	MUP WEST	31+59.40	TO	9+83.7(PERSHING AVE.)	LT																				2213																				
TOTALS FROM THIS SHEET							11600	1896	0	50	0	8357	2741	2	2591	0	0	0	1138	1	6	1	0	2259	992	2213	592	0	0	2229	3625	0	0	395	0	0	160	0	0	0	1228	0	10	0	0	0	10	0	0
TOTALS FROM SHEET P.282							119652	0	0	8804	0	16720	6560	0	10085	0	1	0	5900	8	4	13	2	10107	0	0	0	1	0	0	0	6335	0	0	60	320	740	1345	281	8465	4950	1	10	4	6	65	38	2	3
TOTALS FROM SHEET P.283							60746	2172	11	7093	221	11717	5126	0	10793	329	2	1724	3875	7	2	10	0	8152	0	0	1621	2	1027	1228	717	3365	275	196	30	176	340	2338	88	3196	1705	0	6	20	2	16	16	2	0
TOTALS CARRIED TO GENERAL SUMMARY							191998	4068	11	15947	221	36794	14427	2	23469	329	3	1724	10913	16	12	24	2	20518	992	2213	2213	3	1027	3457	4342	9700	275	591	90	496	1240	3683	369	11661	7883	1	26	24	8	81	64	4	3

Preliminary Plans - For Reference Only

ROADWAY SUBSUMMARY

CUY-77-11.41 - PART 1

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DESIGN AGENCY
HNTB

DESIGNER ASEP

REVIEWER KKP 05/01/26

PROJECT ID 105743

SHEET P.284 TOTAL P.1269

SHEET NO.	203 EXCAVATION CY	203 EMBANKMENT CY	659 SEEDING AND MULCHING SY	SPECIAL BENCHING CY
MOT				
P.202				
P.203	172	0	403	
P.204	675	0	1378	
P.205	306	0	838	
P.206	61	1	133	
P.207	265	23	552	
P.208	401	14	536	
P.209	462	0	322	
P.210	339	0	242	
P.211	300	0	272	
P.212	256	0	289	
P.213	241	0	314	
P.214	271	0	416	
P.215	198	0	394	
P.216	171	0	378	
P.217	632	0	961	
P.218	285	4	619	
P.219	111	0	192	
P.220	154	0	231	
P.221	167	0	219	
P.222	151	0	234	
P.223	124	0	156	
P.224	159	0	183	
P.225	393	0	439	
P.226	1175	0	1380	
P.227	397	1	670	
P.228	505	5	722	
P.229	1007	0	1017	
P.230	118	0	298	
P.231	69	0	194	
P.232	0	0	0	
P.233	30	128	733	
P.234	9	360	814	
P.235	5	449	625	
P.236	6	413	589	
P.237	9	665	847	
P.238	5	275	599	
P.239	4	20	211	
P.240	10	32	216	
P.241	20	0	86	
P.242	26	0	86	
P.243	87	0	236	
P.244	46	7	275	
P.245	18	7	283	
P.246	20	2	306	
P.247	10	0	89	
P.248	35	0	117	
P.249	71	0	200	
P.250	80	0	206	
P.251	85	0	197	
P.252	63	0	169	
P.253	112	0	217	
P.254	69	0	177	
P.255	105	0	248	
P.256	128	0	286	
P.257	138	0	306	
P.258	435	0	895	
P.259	945	0	1384	
P.260	1192	0	1422	
P.261	531	0	622	
TOTAL SUMMARY A	13859	2406	26423	0

SHEET NO.	203 EXCAVATION CY	203 EMBANKMENT CY	659 SEEDING AND MULCHING SY	SPECIAL BENCHING CY
P.262	444	0	722	
P.263	261	0	325	
P.264	1611	0	1156	
P.265	1782	0	1000	
P.266	1864	0	936	
P.267	2037	0	977	
P.268	1963	0	1020	
P.269	2147	0	1038	
P.270	1715	0	1025	
P.271	1096	0	1008	
P.272	1072	0	1167	
P.273	277	0	317	
TOTAL SUMMARY B	16269	0	10691	0

SHEET NO.	203 EXCAVATION CY	203 EMBANKMENT CY	659 SEEDING AND MULCHING SY	SPECIAL BENCHING CY
I.R. 77				
P.350	0	0	431	
P.351	958	41	566	
P.352	569	41	258	
P.353	483	1	266	
P.354	369	5	144	
P.355	287	9	144	
P.356	548	6	299	
P.357	938	54	795	
P.358	630	42	484	
P.359	571	61	408	
P.360	475	93	403	
P.361	430	85	414	
P.362	538	75	400	
P.363	769	7	241	
P.364	810	214	89	
P.365	852	157	3	
P.366	923	61	0	
P.367	897	0	8	
P.368	888	49	55	
P.369	786	171	233	
P.370	594	197	111	
P.371	532	189	261	
P.372	598	1	484	
P.373	416	16	212	
P.374	329	7	78	
P.375	273	6	3	
P.376	226	15	8	
P.377	288	14	75	
P.378	273	2	0	
P.379	413	0	0	
P.380	594	1	0	
P.381	856	2	347	
P.382	879	5	483	
P.383	925	0	422	
P.384	777	0	227	
P.385	822	0	278	
P.386	878	0	417	
P.387	983	64	398	
P.388	1381	2	594	
P.389	1317	0	300	
P.390	1812	0	333	
P.391	1921	0	469	
P.392	1992	0	791	
P.393	1893	19	859	700
P.394	2036	83	1164	674
P.395	1748	181	1125	654
P.396	1623	369	1136	504
P.397	794	234	558	159
P.398	1649	396	1075	413
P.399	1463	409	925	483
P.400	907	419	683	479
P.401	767	85	580	580
P.402	700	119	600	282
P.403	306	59	231	20
P.404	281	18	153	
P.405	271	0	128	
P.406	206	0	103	
P.407	112	20	89	
P.408	387	544	820	
P.409	42	1713	889	
TOTAL SUMMARY C	46985	6361	22619	4948

SHEET NO.	203 EXCAVATION CY	203 EMBANKMENT CY	659 SEEDING AND MULCHING SY	SPECIAL BENCHING CY
P.410	106	2416	972	
P.411	69	1344	567	
P.412	25	1409	539	
P.413	177	2185	964	
P.414	284	1232	722	
P.415	297	518	473	
P.416	399	164	433	
P.417	699	6	470	
P.418	978	56	959	
P.419	781	29	600	
P.420	524	75	216	
P.421	595	2	436	323
P.422	369	3	311	77
P.423	217	18	214	
P.424	409	99	214	
P.425	102	289	136	
P.426	34	519	123	
P.427	36	603	94	
P.428	122	995	69	
P.429	45	1097	131	
P.430	28	963	186	
P.431	61	464	80	
P.432	72	374	42	
P.433	91	315	19	
P.434	96	227	14	
P.435	82	171	36	
P.436	61	146	73	
P.437	35	120	123	
P.438	31	134	120	
P.439	45	133	58	
P.440	57	17	8	
P.441	97	2	0	
P.442	129	0	0	
P.443	166	0	0	
P.444	183	0	0	
P.445	148	0	0	
P.446	28	19	0	
P.447	107	37	24	
P.448	260	18	41	
P.449	290	41	320	
P.450	301	90	136	
P.451	200	81	33	
P.452	77	92	36	
P.453	238	92	133	
P.454	299	25	131	
P.455	257	34	125	
P.456	233	45	130	
P.457	211	39	84	
P.458	266	54	108	
P.459	453	97	217	
P.460	459	74	280	
P.461	448	78	209	
P.462	748	156	141	
P.463	816	163	167	
P.464	673	74	169	
P.465	672	29	339	
P.466	763	89	525	
P.467	736	90	783	
P.468	1434	110	1430	
P.469	1269	89	1250	
TOTAL SUMMARY D	18888	17841	16213	400

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

EARTHWORK SUBSUMMARY

DESIGN AGENCY
HNTB

DESIGNER
ASEP

REVIEWER
KKP 05/01/26

PROJECT ID
105743

SHEET P.285 TOTAL P.1269

MODEL: EW - EW 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:45:27 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - ExternalOhio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\RoadwayISheets\105743_GS003.dgn

SHEET NO.	203 EXCAVATION CY	203 EMBANKMENT CY	659 SEEDING AND MULCHING SY	SPECIAL BENCHING CY
P.470	326	219	342	
P.471	1570	102	961	
P.472	1983	82	1083	
P.473	2068	95	925	
P.474	2133	141	875	
P.475	1972	208	836	
P.476	558	210	303	
P.477	70	177	230	
P.478	134	49	234	
P.479	199	46	298	
P.480	260	124	455	
P.481	296	92	481	
P.482	291	79	514	
P.483	289	29	481	
P.484	267	3	347	
P.485	228	0	84	
P.486	143	1	50	
P.487	79	1	0	
P.488	81	0	0	
P.489	70	4	53	
P.490	47	8	78	
P.491	50	2	64	
P.492	88	1	17	
P.493	50	1	25	
P.494	46	1	0	
P.495	52	77	91	
P.496	6	12	41	
RAMP A3				
P.497	40	3	0	
P.498	325	34	488	
P.499	195	105	817	
P.500	352	20	803	
P.501	518	0	711	
P.502	663	0	667	
P.503	759	0	739	
P.504	496	0	389	
P.505	8	0	6	
RAMP A4				
P.506	40	0	4	
P.507	951	0	822	
P.508	1045	0	1000	
P.509	1028	0	908	
P.510	905	0	789	
P.511	583	0	566	
P.512	85	0	94	
RAMP B1				
P.513	25	1	9	
P.514	137	13	125	
P.515	111	114	320	
P.516	211	215	522	
P.517	491	45	644	
P.518	209	0	223	
P.519	16	1	15	
RAMP B2				
P.520	164	0	153	
P.521	478	0	475	
P.522	155	14	362	
P.523	19	8	71	
RAMP B3				
P.524	96	0	89	
TOTAL SUMMARY E	23461	2337	20679	0

SHEET NO.	203 EXCAVATION CY	203 EMBANKMENT CY	659 SEEDING AND MULCHING SY	SPECIAL BENCHING CY
P.525	959	0	707	
P.526	1334	0	889	
P.527	1359	0	916	
P.528	1263	0	745	
P.529	971	0	495	
P.530	495	10	373	
P.531	38	22	91	
RAMP B4				
P.532	65	0	136	
P.533	488	0	744	
P.534	969	0	1123	
P.535	1303	0	823	
RAMP C1				
P.536	0	48	53	
P.537	7	247	220	
P.538	24	323	289	
P.539	24	473	441	
P.540	25	600	425	
P.541	35	759	506	
P.542	94	812	708	
P.543	204	661	1072	
P.544	75	107	269	
RAMP C2				
P.545	0	0	0	
P.546	86	144	314	
P.547	93	224	265	
P.548	278	206	247	
P.549	398	118	251	
P.550	10	2	2	
RAMP C3				
P.551	32	0	88	
P.552	71	140	251	
P.553	334	381	608	
P.554	802	224	550	
P.555	877	154	441	
P.556	126	31	63	
RAMP D1				
P.557	91	3	151	
P.558	235	0	269	
P.559	314	0	450	
P.560	163	0	297	
RAMP D2				
P.561	101	6	85	
P.562	240	4	206	
P.563	650	1	546	
P.564	33	0	27	
RAMP E1				
P.565	612	25	259	
P.566	1830	148	919	
P.567	1094	441	1089	
P.568	659	761	1280	
P.569	430	812	1425	
P.570	455	673	1570	
P.571	663	245	825	
P.572	289	142	425	
P.573	124	37	19	
TOTAL SUMMARY F	18529	8984	22351	0

SHEET NO.	203 EXCAVATION CY	203 EMBANKMENT CY	659 SEEDING AND MULCHING SY	SPECIAL BENCHING CY
MUP WEST				
P.574	69	25	175	
P.575	41	96	350	
P.576	16	92	291	
P.577	32	44	358	
P.578	66	21	375	
P.579	292	0	266	
P.580	55	9	191	
P.581	3	69	208	
P.582	0	154	156	
P.583	0	131	142	
P.584	0	135	236	
P.585	18	68	194	
P.586	59	27	186	
P.587	38	11	100	
P.588	15	2	22	
P.589	14	2	25	
P.590	31	1	100	
P.591	44	0	169	
P.592	24	2	108	
P.593	4	30	53	
P.594	0	76	75	
P.595	269	48	128	
P.596	555	0	189	
P.597	531	0	192	
P.598	500	0	178	
P.599	533	0	183	
P.600	605	0	189	
P.601	677	0	222	
P.602	572	0	353	
P.603	8	1	14	
P.604	112	13	93	
P.605	1842	58	886	
P.606	2233	2	831	
P.607	1627	107	975	194
P.608	1183	260	1083	357
P.609	1315	170	1042	350
P.610	1657	22	781	
P.611	2117	0	764	
P.612	1145	0	375	
P.613	1110	0	358	
P.614	1056	0	342	
P.615	972	0	328	
P.616	894	0	317	
P.617	819	0	300	
P.618	762	0	281	
P.619	744	59	394	100
P.620	713	143	519	193
P.621	1271	343	1033	385
P.622	596	165	511	191
P.623	608	165	511	174
P.624	1277	331	1025	355
P.625	1338	264	1038	458
P.626	1199	44	633	134
P.627	815	156	550	
P.628	231	695	706	
P.629	102	579	525	
P.630	110	9	200	
P.631	2	4	14	
TOTAL SUMMARY G	32921	4633	21843	2891

SHEET NO.	203 EXCAVATION CY	203 EMBANKMENT CY	659 SEEDING AND MULCHING SY	SPECIAL BENCHING CY
MUP EAST				
P.635	0	50	70	
P.636	0	69	125	
P.637	0	78	119	
P.638	4	67	153	
P.639	11	76	292	
P.640	9	1	8	
TOTAL SUMMARY H	24	341	767	0

TOTAL SUMMARY A	13859	2406	26423	
TOTAL SUMMARY B	16269	0	10691	
MOT TOTAL FOR INFORMATION ONLY	30128	2406	37114	
TOTAL SUMMARY C	46985	6361	22619	4948
TOTAL SUMMARY D	18888	17841	16213	400
TOTAL SUMMARY E	23461	2337	20679	0
TOTAL SUMMARY F	18529	8984	22351	0
TOTAL SUMMARY G	32921	4633	21843	2891
TOTAL SUMMARY H	24	341	767	0
SPECIAL BENCHING TO BE INCLUDED IN EXCAVATION AND EMBANKMENT TOTALS				8239
TOTALS CARRIED TO GENERAL SUMMARY	149047	48736	104472	

EARTHWORK SUBSUMMARY

DESIGN AGENCY
HNTB

DESIGNER ASEP
REVIEWER KKP 05/01/26
PROJECT ID 105743
SHEET P.286 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: EW - EW 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:45:28 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\3015525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GS003.dgn
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\3015525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\1

Preliminary Plans - For Reference Only

PAVEMENT SUBSUMMARY

STATION TO STATION			SIDE	L	W1A	W1B	W2A	W2B	W3	W4A	W4B	W5	W6	LxW1A	LxW1B	LxW2A	LxW2B	LxW3	LxW4A	LxW4B	LxW5	LxW6	202	204	206	206	254	302	304	407	407	441	442	442	442
				LENGTH	AVERAGE WIDTH W1A (ITEMS 206)	AVERAGE WIDTH W1B (ITEMS 254)	AVERAGE WIDTH W2A (ITEMS 302, TOP LIFT)	AVERAGE WIDTH W2B (ITEMS 302, BOTTOM LIFT)	AVERAGE WIDTH W3 (ITEMS 304)	AVERAGE WIDTH W4 (ITEM 407, 702.13)	AVERAGE WIDTH W4 (ITEM 407, NON-TRACKING)	AVERAGE WIDTH W5 (ITEMS 442) INTERMEDIATE COURSE	AVERAGE WIDTH W6 (ITEMS 442) SURFACE COURSE	AVERAGE AREA (ITEMS 206)	AVERAGE AREA (ITEMS 254)	AVERAGE AREA (ITEMS 302, TOP LIFT)	AVERAGE AREA (ITEMS 302, BOTTOM LIFT)	AVERAGE AREA (ITEMS 304)	AVERAGE AREA (ITEMS 407, TACK COAT 702.13)	AVERAGE AREA (ITEMS 407, NON-TRACKING)	AVERAGE AREA (ITEMS 442)	AVERAGE AREA (ITEMS 442)	WEARING COURSE REMOVED	PROOF ROLLING	CEMENT	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	ASPHALT CONCRETE BASE, PG64-22, (449), T = 8.5"	AGGREGATE BASE, T = 6"	TACK COAT, 702.13, (0.085 GAL/SQ YD)	NON-TRACKING TACK COAT	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446), T = 1.75"	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, T = 1.5"	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (449), AS PER PLANT= 0" MIN, 4.5" MAX
				FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	SY	SY	SY	SY	SY	SY		SY	SY	SY	HOUR	TON	SY	SY	CY	CY	GAL	GAL	CY	CY	CY	CY
I.R. 77 SB																																			
74+50.00	TO	75+00.00	LT	50	58.50		58.33	58.33	58.50		171.93	57.50	56.09	325.00		324.07	324.07	325.00		955.15	319.44	311.63		0.16	10	325		77	54		53		16	13	
75+00.00	TO	75+66.23	LT	66.23	58.50		57.50	57.50	58.50		171.09	57.50	56.09	430.49		423.14	423.14	430.49		1259.06	423.14	412.79		0.22	13	430		100	72		69		21	17	
75+66.23	TO	77+40.00	LT	173.77	53.17		58.33	58.33	53.17		171.93	57.50	56.09	1026.59		1126.29	1126.29	1026.59		3319.53	1110.20	1083.05		0.51	31	1027		266	143		183		54	45	
77+40.00	TO	79+00.00	LT	160	58.50		57.50	57.50	58.50		171.09	57.50	56.09	1040.00		1022.22	1022.22	1040.00		3041.67	1022.22	997.22		0.52	32	1040		242	173		167	5	50	42	
79+00.00	TO	79+93.82	LT	93.82	58.50		57.50	57.50	58.50		171.09	57.50	56.09	609.83		599.41	599.41	609.83		1783.56	599.41	584.75		0.30	19	610		142	102		98	3	29	24	
79+93.82	TO	84+01.07	LT	407.25	58.50		57.50	57.50	58.50		171.09	57.50	56.09	2647.13		2601.88	2601.88	2647.13		7741.99	2601.88	2538.24		1.32	80	2647		615	441		426		126	106	
84+01.07	TO	84+30.13	LT	29.06	96.35		95.35	95.85	96.35		281.81	95.02	91.44	311.10		307.87	309.49	311.10		909.93	306.80	295.26		0.16	10	311		73	52		50		15	12	
84+30.13	TO	88+37.31	LT	407.18	81.02		81.02	81.02	81.02		243.20	82.63	79.56	3665.37		3665.37	3665.37	3665.37		11003.09	3738.37	3599.35		1.83	111	3665		866	611		605		182	150	
88+37.31	TO	89+37.30	LT	99.99	65.17		65.17	65.17	65.17		192.43	65.17	62.09	724.00		724.00	724.00	724.00		2137.86	724.00	689.86		0.36	22	724		171	121		118		35	29	
89+37.30	TO	89+38.73	LT	1.43	61.17		61.17	61.17	61.17		180.43	61.17	58.09	9.72		9.72	9.72	9.72		28.67	9.72	9.23		0.00	1	10		3	2		2		1	1	
89+38.73	TO	89+79.58	LT	40.85	63.00		62.00	62.50	63.00		181.76	61.67	58.09	285.95		281.41	283.68	285.95		824.99	279.90	263.68		0.14	9	286		67	48		45		14	11	
89+79.58	TO	90+88.27	LT	108.69	61.17		61.17	61.17	61.17		180.43	61.17	58.09	738.69		738.69	738.69	738.69		2178.96	738.69	701.58		0.37	23	739		175	123		120		36	29	
90+88.27	TO	91+31.67	LT	43.4	63.00		62.00	62.50	63.00		181.76	61.67	58.09	303.80		298.98	301.39	303.80		876.49	297.37	280.14		0.15	10	304		71	51		48		14	12	
91+31.67	TO	93+55.21	LT	223.54	61.17		61.17	61.17	61.17		180.43	61.17	58.09	1519.24		1519.24	1519.24	1519.24		4481.41	1519.24	1442.92		0.76	46	1519		359	253		246		74	60	
93+55.21	TO	94+94.40	LT	139.19	61.17		61.17	61.17	61.17		180.43	61.17	58.09	945.98		945.98	945.98	945.98		2790.41	945.98	898.45		0.47	29	946		224	158		153		46	37	
94+94.40	TO	96+81.19	LT	186.79	62.54		61.54	62.04	62.54		180.37	61.20	57.63	1297.88		1277.12	1287.50	1297.88		3743.38	1270.21	1196.05		0.65	40	1298		303	216		206		62	50	
96+81.19	TO	99+90.00	LT	308.81	63.77		63.77	63.77	63.77		188.23	63.77	60.69	2187.98		2187.98	2187.98	2187.98		6458.49	2187.98	2082.54		1.09	67	2188		517	365		355		106	87	
99+90.00	TO	100+75.00	LT	85	68.37		68.37	68.37	68.37		202.03	68.37	65.29	645.69		645.69	645.69	645.69		1908.03	645.69	616.66		0.32	20	646		153	108		105		31	26	
100+75.00	TO	106+00.55	LT	525.55	75.71		75.71	75.71	75.71		224.02	75.71	72.61	4420.82		4420.82	4420.82	4420.82		13081.65	4420.82	4240.01		2.21	134	4421		1044	737		719		215	177	
106+00.55	TO	106+05.21	LT	4.66	83.94		82.94	83.44	83.94		244.56	82.61	79.01	43.46		42.95	43.20	43.46		126.63	42.77	40.91		0.02	2	43		11	7		7		2	2	
106+05.21	TO	107+88.14	LT	182.93	83.55		82.55	82.55	83.55		246.22	82.55	81.12	1698.20		1677.87	1677.87	1698.20		5004.57	1677.87	1648.82		0.85	52	1698		397	283		275	6	82	69	
107+88.14	TO	108+64.93	LT	76.79	89.55		88.55	88.55	89.55		264.22	88.55	87.12	764.06		755.53	755.53	764.06		2254.39	755.53	743.33		0.38	24	764		179	127		124		37	31	
108+64.93	TO	111+80.00	LT	315.07	58.50		57.50	57.50	58.50		171.07	57.50	56.07	2047.96		2012.95	2012.95	2047.96		5988.79	2012.95	1962.90		1.02	62	2048		476	341		329		98	82	
111+80.00	TO	113+00.00	LT	120	61.00		60.00	60.50	61.00		175.74	59.67	56.07	813.33		800.00	806.67	813.33		2343.16	795.56	747.61		0.41	25	813		190	136		129		39	31	
113+00.00	TO	115+36.53	LT	236.53	58.50		57.83	58.33	58.50		171.40	57.50	56.07	1537.45		1519.92	1533.06	1537.45		4504.68	1511.16	1473.59		0.77	47	1537		361	256		248	7	73	61	
115+36.53	TO	119+57.69	LT	421.16	58.50		57.83	58.33	58.50		171.40	57.50	56.07	2737.54		2706.34	2729.74	2737.54		8020.93	2690.74	2623.84		1.37	83	2738		642	456		441		131	109	
119+57.69	TO	122+84.63	LT	326.94	82.00		81.33	81.83	82.00		241.90	81.00	79.57	2978.79		2954.57	2972.73	2978.79		8787.56	2942.46	2890.53		1.49	90	2979		700	496		483	10	143	120	
122+84.63	TO	126+07.99	LT	323.36	68.50		67.83	68.33	68.50		201.40	67.50	66.07	2461.13		2437.18	2455.14	2461.13		7236.21	2425.20	2373.84		1.23	75	2461		578	410		398	10	118	99	
126+07.99	TO	127+07.99	LT	100	63.50		62.83	63.33	63.50		186.40	62.50	61.07	705.56		698.15	703.70	705.56		2071.15	694.44	678.56		0.35	22	706		166	118		114	3	34	28	
127+07.99	TO	128+96.00	LT	188.01	58.50		57.83	58.33	58.50		171.40	57.50	56.07	1222.07		1208.14	1218.58	1222.07		3580.62	1201.18	1171.31		0.61	37	1222		287	204		197	6	58	49	
128+96.00	TO	129+28.04	LT	32.04	61.00		60.00	60.50	61.00		175.74	59.67	56.07	217.16		213.60	215.38	217.16		625.62	212.41	199.61		0.11	7	217		51	36		34		10	8	
129+28.04	TO	131+35.96	LT	207.92	59.17		59.17	59.17	59.17		176.07	59.17	57.74	1366.89		1366.89	1366.89	1366.89		4067.64	1366.89	1333.86		0.68	42	1367		323	228		224		66	56	
131+35.96	TO	131+64.00	LT	28.04	61.00		60.00	60.50	61.00		175.74	59.67	56.07	190.05		186.93	188.49	190.05		547.52	185.89	174.69		0.10	6	190		45	32		30		9	7	
131+64.00	TO	134+01.42	LT	237.42	58.50		57.83	58.33	58.50		171.40	57.50	56.07	1543.23		1525.64	1538.83	1543.23		4521.63	1516.85	1479.14		0.77	47	1543		362	257		249	7	74	62	
134+01.42	TO	134+80.00	LT	78.58	58.50		57.83	58.33	58.50		171.43	57.50	56.09	510.77		504.95	509.31	510.77		1496.75	502.04	489.76		0.26	16	511		120	85		82	2	24	20	
134+80.00	TO	139+05.00	LT	425	58.50		57.83	58.33	58.50		171.43	57.50	56.09	2762.50		2731.02	2754.63	2762.50		8095.17	2715.28	2648.87		1.38	84	2763		648	460		445	13	132	110	
139+05.00	TO	140+40.00	LT	135	58.50		57.83	58.33	58.50		171.40	57.50	56.07	877.50		867.50	875.00	877.50		2571.06	862.50	841.06		0.44	27	878		206	146		141	4	42	35	
140+40.00	TO	141+25.00	LT	85	58.50		57.83	58.33	58.50		171.40	57.50	56.07	552.50		546.20	550.93	552.50		1618.81	543.06	529.55		0.28	17	553		130	92		89		26	22	
141+25.00	TO	141+60.00	LT	35	61.00		60.00	60.50	61.00		175.76	59.67	56.09	237.22		233.33	235.28	237.22		683.51	232.04	218.14		0.12	8	237		56	40		38		11	9	
141+60.00	TO	143+25.00	LT	165	57.50		57.50	57.50	57.50		171.09	57.50	56.09	1054.17		1054.17	1054.17	1054.17		3136.72	1054.17	1028.39		0.53	32	1054		249	150		173		51	43	
143+25.00	TO	145+63.00	LT	238	58.50		57.50	57.50	58.50		171.09	57.50	56.09	1547.00		1520.56	1520.56	1547.00		4524.48	1520.56	1483.37		0.77	47	1547		360	258		249	7	74	62	
145+63.00	TO	149+20.00	LT	357	58.50		57.50	57.50	58.50		171.09	57.50	56.09	2320.50		2280.83	2280.83	2320.50		6786.72	2280.83	2225.05		1.16	71	2321		539	387		373		111	93	
149+20.00	TO	150+65.93	LT	145.93	58.50		57.50	57.50	58.50		171.09	57.50	56.09	948.55		932.33	932.33	948.55		2774.19	932.33	909.53		0.47	29	949		221	158		153		45	38	
150+65.93	TO	151+80.00	LT	114.07	90.56		89.56	90.06	90.56		264.45	89.23	85.66	1147.85		1135.18	1141.52	1147.85		3351.81	1130.96	1085.67		0.57	35	1148		269	191		184		55	45	
151+80.00	TO	156+33.75	LT	453.75	78.30		77.30	77.80	78.30		227.66	76.97	73.39	3947.63		3897.21	3922.42	3947.63		11477.88	3880.40	3700.27		1.97	120	3948		924	658		631		189	154	
156+33.75	TO	157+34.38	LT	100.63	62.50		62.50	62.50	62.50		186.09	62.50	61.09	698.82		698.82	698.82	698.82		2080.73	698.82	683.10		0.35	22	699		165	116		114		34	28	
157+34.38	TO	161+89.07	LT	454.69	57.50		57.50	57.50	57.50		171.09	57.50	56.09	2904.96		2904.96	2904.96	2904.96		8643.85	2904.96	2833.92		1.45	88	2905		686	484		475		141	118	
161+89.07	TO	163+17.32	LT	128.25	57.50		57.50	57.50	57.50		171.09	57.50	56.09	819.38		819.38	819.38	819.38		2438.09	819.37	799.34		0.41	25	819		194	116		134		40	33	
163+17.32	TO	165+00.00	LT	182.68	57.50		57.50	57.50	57.50		171.09	57.50	56.09	1167.12		1167.12	1167.12	1167.12		3472.82	1167.12	1138.58		0.58	36	1167		276	195		191		57	47	
165+00.00	TO	165+60.07	LT	60.07	57.50		57.50	57.50	57.50		171.09	57.50	56.09	383.78		383.78	383.78	383.78		1141.96	383.78	374.39		0.19	12	384		91	64		63		19	16	
165+60.07	TO	167+80.00	LT	219.93	59.20		59.20	59.20	59.20		176.19	59.20	57.79	1446.65		1446.65	1446.65	1446.65		4305.59	1446.65	1412.29		0.72	44	1447		342	241		237		70	59	
167+80.00	TO	168+30.04	LT	50.04	61.30		61.30	61.30	61.30		182.49	61.30	59.89	340.83		340.83	340.83	340.83		1014.67	340.83	333.01		0.17	11	341		81	57		56		17	14	
168+30.04	TO	170+40.04	LT	210	61.67		61.67	61.67	61.67		183.59	61.67	60.26	1438.90		1438.90	1438.90	1438.90		4283.88	1438.90	1406.08		0.72	44	1439		340	240		236		70	59	
170+40.04	TO	170+98.01	LT	57.97	65.20		64.20	64.70	65.20		188.36	63.87	60.29	419.96		413.52	416.74	419.96		1213.25	411.37	388.36		0.21	13	420		99	70		67		20	16	
170+98.01	TO	172+95.00	LT	196.99	57.13		61.45	61.45	57.13		182.96	61.45	60.05	1250.42		1345.06	1344.77	1250.42		4004.51	1345.06	1314.39		0.63	38	1250		318	176		220		65	55	
172+95.00	TO	175+33.50	LT	238.5	56.92		58.65	58.65	56.92		179.74	61.24	59.84	1508.38		1554.30	1554.02	1508.38		4763.10	1622.97	1585.83		0.75	46	1508		367	213		262		79	66	
175+33.50	TO	175+73.03	LT	39.53	56.92		58.65	58.65	56.92		179.74	61.24	59.84	250.01		257.62	257.33	250.01		789.46	269.00	262.84		0.13	8	250		61	36		43		13	11	
175+73.03	TO	176+39.00	LT	65.97	56.92		58.65	58.65	56.92		179.74	61.24	59.84	417.22		429.93	429.64	417.22		1317.49	448.92	438.65		0.21	13	417		102	59		72		22	18	
176+39.00	TO	176+83.05	LT	44.05	64.75		63.75	64.25	64.75		187.01	63.42	59.84	316.92		312.02	314.47	316.92		915.31	310.39	292.90		0.16	10	317		74	53		50		15	12	
176+83.05	TO	177+25.53	LT	42.48	64.75		63.75	64.25	64.75		187.01	63.42	59.84	305.62		300.90	303.26	305.62		882.69	299.33	282.46		0.15	10	306		72	51		49		15	12	
177+25.53	TO	177+83.05	LT	57.52	62.25		61.58	62.08	62.25		182.68	61.25	59.84	397.85		393.59	396.78	397.85		1167.51	391.46	382.47		0.20	13	398		94	66		64	2	19	16	
TOTALS CARRIED TO SHEET P.290																							0	37	2247	73438	0	17320	12079	0	11941	86	3557	2953	0

Preliminary Plans For Reference Only

DESIGN AGENCY
HNTB

DESIGNER ASEP
REVIEWER KKP 05/01/26
PROJECT ID 105743
SHEET P.287 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Unnamed Plan - SB Sheet 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:45:40 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - ExternalOhio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\RoadwayEngineering\RoadwaySheets\105743_GS001.dgn
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - ExternalOhio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\RoadwayEngineering\RoadwaySheets\105743_PAVSUB.dgn

STATION TO STATION			SIDE	L	W1A	W1B	W2A	W2B	W3	W4A	W4B	W5	W6	LxW1A	LxW1B	LxW2A	LxW2B	LxW3	LxW4	LxW4B	LxW5	LxW6	202	204	206	206	254	302	304	407	407	441	442	442	442
				LENGTH	AVERAGE WIDTH W1 (ITEMS 206)	AVERAGE WIDTH W1B (ITEMS 254)	AVERAGE WIDTH W2A (ITEMS 302, TOP LIFT)	AVERAGE WIDTH W2B (ITEMS 302, BOTTOM LIFT)	AVERAGE WIDTH W3 (ITEMS 304)	AVERAGE WIDTH W4 (ITEM 407, 702.13)	AVERAGE WIDTH W4 (ITEM 407, NON-TRACKING)	AVERAGE WIDTH W5 (ITEMS 442) INTERMEDIATE COURSE	AVERAGE WIDTH W6 (ITEMS 442) SURFACE COURSE	AVERAGE AREA (ITEMS 206)	AVERAGE AREA (ITEMS 254)	AVERAGE AREA (ITEMS 302, TOP LIFT)	AVERAGE AREA (ITEMS 302, BOTTOM LIFT)	AVERAGE AREA (ITEMS 304)	AVERAGE AREA (ITEMS 407, TACK COAT 702.13)	AVERAGE AREA (ITEMS 407, NON-TRACKING)	AVERAGE AREA (ITEMS 442)	AVERAGE AREA (ITEMS 442)	WEARING COURSE REMOVED	PROOF ROLLING	CEMENT	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	ASPHALT CONCRETE BASE, PG64-22, (449), T = 8.5"	AGGREGATE BASE, T = 6"	TACK COAT, 702.13, (0.085 GAL/SQ YD)	NON-TRACKING TACK COAT	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446), T = 1.75"	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, T = 1.5"	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (449), AS PER PLAN
				FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	SY	SY	SY	SY	SY	SY		SY	SY	SY	HOUR	TON	SY	SY	CY	CY	GAL	GAL	CY	CY	CY	CY
IR-77 SB (CONT.)																																			
177+83.05	TO	179+70.47	LT	187.42	62.25		61.58	62.08	62.25		182.68	61.25	59.84	1296.32		1282.44	1292.85	1296.32		3804.15	1275.50	1246.21		0.65	40	1296		305	216		209	6	62	52	
179+70.47	TO	183+25.00	LT	354.53	65.78		65.11	65.61	65.78		193.25	64.78	63.37	2591.02		2564.76	2584.46	2591.02		7612.63	2551.63	2496.24		1.30	79	2591		608	432		419	11	124	104	
183+25.00	TO	188+19.29	LT	494.29	74.25		73.58	74.08	74.25		218.68	73.25	71.84	4077.89		4041.28	4068.74	4077.89		12009.99	4022.97	3945.74		2.04	124	4078		958	680		661	15	196	164	
188+19.29	TO	189+33.05	LT	113.76	80.35		79.68	80.18	80.35		236.95	79.35	77.92	1015.62		1007.20	1013.52	1015.62		2995.10	1002.98	984.91		0.51	31	1016		239	169		165	4	49	41	
189+33.05	TO	189+81.71	LT	48.66	80.71		80.05	80.55	80.71		238.04	79.71	78.28	436.39		432.78	435.48	436.39		1287.01	430.98	423.25		0.22	14	436		103	73		71	2	21	18	
189+81.71	TO	192+12.96	LT	231.25	86.71		86.04	86.54	86.71		256.02	85.71	84.28	2227.85		2210.72	2223.57	2227.85		6578.30	2202.16	2165.42		1.11	68	2228		524	371		362	7	107	90	
192+12.96	TO	196+50.00	LT	437.04	58.50		57.83	58.33	58.50		171.40	57.50	56.07	2840.76		2808.39	2832.67	2840.76		8323.37	2792.20	2722.78		1.42	86	2841		666	473		458		136	113	
196+50.00	TO	197+50.00	LT	100	58.50		57.83	58.33	58.50		171.43	57.50	56.09	650.00		642.59	648.15	650.00		1904.75	638.89	623.26		0.33	20	650		153	108		105		31	26	
197+50.00	TO	198+50.00	LT	100	61.00		60.00	60.50	61.00		175.76	59.67	56.09	677.78		666.67	672.22	677.78		1952.89	662.96	623.26		0.34	21	678		159	113		107		32	26	
198+50.00	TO	199+38.00	LT	88	61.00		60.00	60.50	61.00		175.76	59.67	56.09	596.44		586.67	591.56	596.44		1718.55	583.41	548.47		0.30	19	596		140	99		95		28	23	
199+38.00	TO	200+62.61	LT	124.61	58.50		57.50	57.50	58.50		171.09	57.50	56.09	809.97		796.12	796.12	809.97		2368.89	796.12	776.65		0.40	25	810		188	135		130	4	39	32	
200+62.61	TO	201+50.00	LT	87.39	58.50		57.50	57.50	58.50		171.09	57.50	56.09	568.03		558.32	558.32	568.03		1661.32	558.32	544.67		0.28	18	568		132	95		91		27	23	
201+50.00	TO	204+03.00	LT	253	61.03		60.03	60.03	61.03		178.68	60.03	58.62	1715.62		1687.51	1687.51	1715.62		5023.00	1687.51	1647.98		0.86	52	1716		399	286		276		82	69	
204+03.00	TO	209+56.00	LT	553	44.60		43.60	43.60	44.60	24.5	178.39	68.10	66.69	2740.42		2678.98	2678.98	2740.42	1505.39	10961.30	4184.37	4097.96	1506	1.37	83	2740		633	457	128	603			171	203
209+56.00	TO	210+75.00	LT	119	44.60		43.60	43.60	44.60	31.2	191.79	74.80	73.39	589.71		576.49	576.49	589.71	412.53	2535.94	989.02	970.43	413	0.29	18	590		137	98	35	139			40	48
210+75.00	TO	211+38.00	LT	63	46.85		45.85	46.35	46.85	32.65	198.61	78.17	74.59	327.95		320.95	324.45	327.95	228.55	1390.27	547.17	522.16	229	0.16	10	328		77	55	19	76			22	27
211+38.00	TO	213+75.00	LT	237	45.10		44.10	44.60	45.10	34.95	197.96	78.72	75.14	1187.63		1161.30	1174.47	1187.63	920.35	5212.96	2072.87	1978.79	921	0.59	36	1188		276	198	78	287			82	101
213+75.00	TO	214+76.00	LT	101	30.10		30.10	30.10	30.10	47.45	183.79	77.55	76.14	337.79		337.79	337.79	337.79	532.49	2062.57	870.28	854.50	533	0.17	11	338		80	56	45	113			36	42
214+76.00	TO	215+25.00	LT	49	28.05		28.05	28.05	28.05	48.15	180.45	76.20	76.20	152.72		152.72	152.72	152.72	262.15	982.45	414.87	414.87	263	0.08	5	153		37	25	22	54			17	20
215+25.00	TO	217+53.50	LT	228.5	26.25		26.25	26.25	26.25	50.85	180.45	77.10	77.10	666.46		666.46	666.46	666.46	1291.03	4581.43	1957.48	1957.48	1292	0.33	21	666		158	111	110	252			82	95
217+53.50	TO	217+91.00	LT	37.5	26.90		26.90	26.90	26.90	54	188.70	80.90	80.90	112.08		112.08	112.08	112.08	225.00	786.25	337.08	337.08	225	0.06	4	112		27	19	19	43			14	16
217+91.00	TO	219+93.40	LT	202.4	30.10		30.10	30.10	30.10	64.55	187.89	79.60	78.19	676.92		676.92	676.92	676.92	1451.66	4225.52	1790.12	1758.49	1452	0.34	21	677		160	113	123	232			73	87
219+93.40	TO	220+83.50	LT	90.1	30.10		30.10	30.10	30.10	27.4	143.69	57.50	56.09	301.33		301.33	301.33	301.33	274.30	1438.53	575.64	561.56	275	0.15	10	301		72	50	23	79			23	28
220+83.50	TO	225+40.00	LT	456.5		57.50					113.59	57.5	56.09		2916.53					5761.73	2916.53	2845.20						2917			317			119	142
225+40.00	TO	228+99.12	LT	359.12		57.50					113.59	57.5	56.09		2294.38					4532.64	2294.38	2238.27						2295			249			93	112
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TOTALS CARRIED TO SHEET P.290																							7109	14	816	26597	5212	6231	4432	602	5593	48	934	1553	921

Preliminary Plans - For Reference Only

PAVEMENT SUBSUMMARY

DESIGN AGENCY
HNTB

DESIGNER ASEP
REVIEWER KKP 05/01/26
PROJECT ID 105743
SHEET P.288 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Unnamed Plan - SB Sheet 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:45:42 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\406-Engineering\Roadway\Sheets\105743_GS001.dgn
_Pen.tbl

STATION TO STATION			SIDE	L	W1A	W1B	W2A	W2B	W3	W4A	W4B	W5	W6	LxW1A	LxW1B	LxW2A	LxW2B	LxW3	LxW4	LxW4B	LxW5	LxW6	202	204	206	206	254	302	304	407	407	441	442	442	442
				LENGTH	AVERAGE WIDTH W1 (ITEMS 206)	AVERAGE WIDTH W1B (ITEMS 254)	AVERAGE WIDTH W2A (ITEMS 302, TOP LIFT)	AVERAGE WIDTH W2B (ITEMS 302, BOTTOM LIFT)	AVERAGE WIDTH W3 (ITEMS 304)	AVERAGE WIDTH W4 (ITEM 407, 702.13)	AVERAGE WIDTH W4 (ITEM 407, NON-TRACKING)	AVERAGE WIDTH W5 (ITEMS 442) INTERMEDIATE COURSE	AVERAGE WIDTH W6 (ITEMS 442) SURFACE COURSE	AVERAGE AREA (ITEMS 206)	AVERAGE AREA (ITEMS 254)	AVERAGE AREA (ITEMS 302, TOP LIFT)	AVERAGE AREA (ITEMS 302, BOTTOM LIFT)	AVERAGE AREA (ITEMS 304)	AVERAGE AREA (ITEMS 407, TACK COAT 702.13)	AVERAGE AREA (ITEMS 407, NON-TRACKING)	AVERAGE AREA (ITEMS 442)	AVERAGE AREA (ITEMS 442)	WEARING COURSE REMOVED	PROOF ROLLING	CEMENT	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	ASPHALT CONCRETE BASE, PG64-22, (449), T = 8.5"	AGGREGATE BASE, T = 6"	TACK COAT, 702.13, (0.085 GAL/SQ YD)	NON-TRACKING TACK COAT	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446), T = 1.75"	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, T = 1.5"	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (449), AS PER PLAN
				FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	SY	SY	SY	SY	SY	SY		SY	SY	SY	HOUR	TON	SY	SY	CY	CY	GAL	GAL	CY	CY	CY	CY
IR-77 NB																																			
74+50.00	TO	75+00.00	RT	50	58.50		57.83	58.33	58.50		171.37	57.50	56.04	325.00		321.28	324.07	325.00		952.04	319.44	311.32		0.16	10	325		77	54		52	2	16	13	
75+00.00	TO	75+50.00	RT	50	58.50		57.50	57.50	58.50		171.04	57.50	56.04	325.00		319.44	319.44	325.00		950.20	319.44	311.32		0.16	10	325		76	54		52	2	16	13	
75+50.00	TO	76+40.00	RT	90	61.00		60.00	60.50	61.00		175.70	59.67	56.04	610.00		600.00	605.00	610.00		1757.03	596.67	560.37		0.31	19	610		143	102		97		29	23	
76+40.00	TO	79+00.00	RT	260	58.50		57.50	57.50	58.50		171.04	57.50	56.04	1690.00		1661.11	1661.11	1690.00		4941.06	1661.11	1618.84		0.85	52	1690		393	282		272		81	67	
79+00.00	TO	81+05.60	RT	205.6	58.50		57.50	57.50	58.50		171.04	57.50	56.04	1336.40		1313.56	1313.56	1336.40		3907.24	1313.56	1280.13		0.67	41	1336		311	223		215		64	53	
81+05.60	TO	83+06.68	RT	201.08	86.70		86.03	86.53	86.70		255.97	85.70	84.24	1937.07		1922.10	1933.35	1937.07		5718.87	1914.73	1882.04		0.97	59	1937		456	323		315		93	78	
83+06.68	TO	83+55.66	RT	48.98	80.70		80.03	80.53	80.70		237.97	79.70	78.24	439.19		435.54	438.28	439.19		1295.07	433.75	425.78		0.22	14	439		104	73		71		21	18	
83+55.66	TO	86+91.23	RT	335.57	78.15		77.48	77.98	78.15		230.32	77.15	75.69	2913.87		2888.88	2907.65	2913.87		8587.49	2876.58	2822.02		1.46	88	2914		685	486		472		140	118	
86+91.23	TO	88+75.00	RT	183.77	71.35		70.68	71.18	71.35		209.92	70.35	68.89	1456.89		1443.21	1453.48	1456.89		4286.27	1436.47	1406.59		0.73	44	1457		342	243		236	6	70	59	
88+75.00	TO	89+02.52	RT	27.52	70.10		69.10	69.60	70.10		203.00	68.77	65.14	214.35		211.29	212.82	214.35		620.74	210.27	199.17		0.11	7	214		51	36		34		10	8	
89+02.52	TO	89+31.99	RT	29.47	67.72		67.72	67.72	67.72		200.02	67.72	64.59	221.73		221.73	221.73	221.73		654.95	221.73	211.49		0.11	7	222		53	37		36		11	9	
89+31.99	TO	90+75.00	RT	143.01	69.45		68.45	68.95	69.45		201.05	68.12	64.49	1103.56		1087.67	1095.62	1103.56		3194.74	1082.37	1024.69		0.55	34	1104		258	184		176		53	43	
90+75.00	TO	90+80.84	RT	5.84	69.55		68.55	69.05	69.55		201.35	68.22	64.59	45.13		44.48	44.81	45.13		130.66	44.27	41.91		0.02	2	45		11	8		7		2	2	
90+80.84	TO	93+96.38	RT	315.54	64.52		64.52	64.52	64.52		190.42	64.52	61.39	2261.95		2261.95	2261.95	2261.95		6676.13	2261.95	2152.22		1.13	69	2262		535	377		367		110	90	
93+96.38	TO	96+05.66	RT	209.28	62.10		61.10	61.60	62.10		179.00	60.77	57.14	1444.03		1420.78	1432.41	1444.03		4162.43	1413.03	1328.62		0.72	44	1444		337	241		229		69	55	
96+05.66	TO	96+74.63	RT	68.97	61.00		60.00	60.50	61.00		175.70	59.67	56.04	467.46		459.80	463.63	467.46		1346.47	457.25	429.43		0.23	15	467		110	78		74		22	18	
96+74.63	TO	99+60.00	RT	285.37	58.50		57.83	58.33	58.50		171.37	57.50	56.04	1854.91		1833.66	1849.62	1854.91		5433.66	1823.20	1776.80		0.93	56	1855		435	309		299	9	89	74	
99+60.00	TO	99+90.00	RT	30	61.00		60.00	60.50	61.00		175.70	59.67	56.04	203.33		200.00	201.67	203.33		585.68	198.89	186.79		0.10	7	203		48	34		32		10	8	
99+90.00	TO	100+57.43	RT	67.43	61.00		60.00	60.50	61.00		175.76	59.67	56.09	457.03		449.53	453.28	457.03		1316.84	447.04	420.27		0.23	14	457		107	76		72		22	18	
100+57.43	TO	100+75.00	RT	17.57	59.17		59.17	59.17	59.17		174.43	59.17	56.09	115.51		115.51	115.51	115.51		340.52	115.51	109.51		0.06	4	116		28	19		19		6	5	
100+75.00	TO	101+85.51	RT	110.51	59.17		59.17	59.17	59.17		174.43	59.17	56.09	726.50		726.50	726.50	726.50		2141.77	726.50	688.77		0.36	22	727		172	121		118		35	29	
101+85.51	TO	102+85.51	RT	100	59.17		59.17	59.17	59.17		174.43	59.17	56.09	657.41		657.41	657.41	657.41		1938.08	657.41	623.26		0.33	20	657		156	110		107		32	26	
102+85.51	TO	104+21.25	RT	135.74	71.12		71.12	71.12	71.12		210.28	71.12	68.04	1072.60		1072.60	1072.60	1072.60		3171.45	1072.60	1026.25		0.54	33	1073		254	179		174		52	43	
104+21.25	TO	106+69.66	RT	248.41	86.12		86.12	86.12	86.12		255.28	86.12	83.04	2376.92		2376.92	2376.92	2376.92		7045.93	2376.92	2292.10		1.19	72	2377		562	396		388		116	96	
106+69.66	TO	109+59.45	RT	289.79	58.50		57.83	58.33	58.50		171.42	57.50	56.09	1883.64		1862.06	1878.27	1883.64		5519.65	1851.44	1806.16		0.94	57	1884		442	314		304	9	90	75	
109+59.45	TO	112+00.00	RT	240.55	58.50		57.83	58.33	58.50		171.42	57.50	56.09	1563.58		1545.67	1559.12	1563.58		4581.78	1536.85	1499.26		0.78	48	1564		367	261		252	7	75	62	
112+00.00	TO	113+20.00	RT	120	61.00		60.00	60.50	61.00		175.76	59.67	56.09	813.33		800.00	806.67	813.33		2343.47	795.56	747.92		0.41	25	813		190	136		129		39	31	
113+20.00	TO	117+83.77	RT	463.77	58.50		57.50	57.50	58.50		171.09	57.50	56.09	3014.51		2962.98	2962.98	3014.51		8816.46	2962.98	2890.51		1.51	92	3015		700	502		485		144	120	
117+83.77	TO	121+03.53	RT	319.76	86.40		86.23	86.23	86.40		255.63	85.40	83.99	3069.70		3063.77	3063.77	3069.70		9082.15	3034.17	2984.20		1.53	93	3070		724	512		500		147	124	
121+03.53	TO	121+54.37	RT	50.84	80.40		80.23	80.23	80.40		237.63	79.40	77.99	454.17		453.23	453.23	454.17		1342.33	448.52	440.58		0.23	14	454		108	76		74		22	18	
121+54.37	TO	126+05.57	RT	451.2	77.00		76.83	76.83	77.00		227.43	76.00	74.59	3860.27		3851.91	3851.91	3860.27		11401.68	3810.13	3739.63		1.93	117	3860		910	643		627		185	156	
126+05.57	TO	128+21.41	RT	215.84	70.50		70.33	70.33	70.50		207.93	69.50	68.09	1690.75		1686.75	1686.75	1690.75		4986.55	1666.76	1633.04		0.85	52	1691		399	282		274	7	81	68	
128+21.41	TO	129+62.74	RT	141.33	70.50		70.33	70.33	70.50		207.93	69.50	68.09	1107.09		1104.47	1104.47	1107.09		3265.15	1091.38	1069.30		0.55	34	1107		261	185		180		53	45	
129+62.74	TO	132+90.96	RT	328.22	83.85		83.68	83.68	83.85		247.98	82.85	81.44	3057.92		3051.84	3051.84	3057.92		9043.45	3021.45	2970.16		1.53	93	3058		721	510		497		147	124	
132+90.96	TO	133+85.00	RT	94.04	58.50		57.50	57.50	58.50		171.09	57.50	56.09	611.26		600.81	600.81	611.26		1787.74	600.81	586.12		0.31	19	611		142	102		98	3	29	24	
133+85.00	TO	134+00.00	RT	15	58.50		57.50	57.50	58.50		171.09	57.50	56.09	97.50		95.83	95.83	97.50		285.16	95.83	93.49		0.05	3	98		23	16		16	1	5	4	
134+00.00	TO	139+05.00	RT	505	58.50		57.50	57.50	58.50		171.09	57.50	56.09	3282.50		3226.39	3226.39	3282.50		9600.26	3226.39	3147.48		1.64	100	3283		762	547		528	16	157	131	
139+05.00	TO	141+65.00	RT	260	58.50		57.50	57.50	58.50		171.09	57.50	56.09	1690.00		1661.11	1661.11	1690.00		4942.71	1661.11	1620.49		0.85	52	1690		393	282		272	8	81	68	
141+65.00	TO	142+65.00	RT	100	61.00		60.00	60.50	61.00		175.76	59.67	56.09	677.78		666.67	672.22	677.78		1952.89	662.96	623.26		0.34	21	678		159	113		107		32	26	
142+65.00	TO	145+04.30	RT	239.3	58.50		57.50	57.50	58.50		171.09	57.50	56.09	1555.45		1528.86	1528.86	1555.45		4549.19	1528.86	1491.47		0.78	47	1555		361	259		250	7	74	62	
145+04.30	TO	146+42.86	RT	138.56	58.50		57.50	57.50	58.50		171.09	57.50	56.09	900.64		885.24	885.24	900.64		2634.08	885.24	863.59		0.45	28	901		210	150		145		43	36	
146+42.86	TO	148+68.13	RT	225.27	86.55		85.55	85.55	86.55		255.24	85.55	84.14	2166.35		2141.32	2141.32	2166.35		6388.75	2141.32	2106.12		1.08	66	2166		506	361		351		104	88	
148+68.13	TO	149+18.20	RT	50.07	80.55		79.55	79.55	80.55		237.24	79.55	78.14	448.13		442.56	442.56	448.13		1319.87	442.56	434.74		0.22	14	448		105	75		73		22	18	
149+18.20	TO	149+20.00	RT	1.8	81.50		80.50	80.50	81.50		240.09	80.50	79.09	16.30		16.10	16.10	16.30		48.02	16.10	15.82		0.01	1	16		4	3		3		1	1	
149+20.00	TO	151+80.00	RT	260	78.85		77.85	77.85	78.85		232.14	77.85	76.44	2277.89		2249.00	2249.00	2277.89		6706.38	2249.00	2208.38		1.14	69	2278		532	380		369		109	92	
151+80.00	TO	152+93.92	RT	113.92	75.40		74.40	74.40	75.40		221.77	74.40	72.97	954.40		941.74	941.74	954.40		2807.12	941.74	923.64		0.48	29	954		223	159		154		46	38	
152+93.92	TO	155+00.00	RT	206.08	72.28		71.28	71.28	72.28		212.41	71.28	69.85	1655.05		1632.15	1632.15	1655.05		4863.73	1632.15	1599.42		0.83	50	1655		386	276		268	6	79	67	
155+00.00	TO	161+68.10	RT	668.1	66.70		65.70	66.20	66.70		192.84	65.37	61.77	4951.36		4877.13	4914.25	4951.36		14314.94	4852.39	4585.43		2.48	150	4951		1156	825		787		236	191	
165+25.00	TO	167+80.00	RT	255	61.00		60.00	60.50	61.00		175.74	59.67	56.07	1728.33		1700.00	1714.17	1728.33		4979.22	1690.56	1588.66		0.86	53	1728		404	288		274		82	66	
167+80.00	TO	168+90.00	RT	110	61.00		60.00	60.50	61.00		175.76	59.67	56.09	745.56		733.33	739.44	745.56		2148.18	729.26	685.59		0.37	23	746		174	124		118		35	29	
168+90.00	TO	169+18.80	RT	28.8	57.50		57.50	57.50	57.50		171.09	57.50	56.09	184.00		184.00	184.00	184.00		547.50	184.00	179.50		0.09	6	184		44	26		30		9	7	
169+18.80	TO	169+80.14	RT	61.34	57.50		59.17	59.17	57.50		172.76	57.50	56.09	391.89		403.25	403.25	391.89		1177.46	391.89	382.31		0.20	12	392		96	55		65		19	16	
169+80.14	TO	171+00.00	RT	119.86	59.17		59.17	59.17	59.17		174.43	59.17	56.09	787.97		787.97	787.97	787.97		2322.98	787.97	747.04		0.39	24	788		187	112		128		38	31	
171+00.00	TO	172+95.00	RT	195	58.50		57.50	57.50	58.50		171.09	57.50	56.09	1267.50		1245.83	1245.83	1267.50		3707.03	1245.83	1215.36		0.63	39	1268		295	211		204	6	61	51	
172+95.00	TO	175+00.00	RT	205	58.50		57.50	57.50	58.50		171.09	57.50	56.09	1332.50		1309.72	1309.72	1332.50		3897.14	1309.72	1277.69		0.67	41	1333		310	222		214	6	64	53	
175+00.00	TO	176+48.00	RT	148	57.50		57.50	57.50	57.50		171.09	57.50	56.09	945.56		945.56	945.56	945.56		2813.54	945.56	922.43		0.47	29	946		224	134		155		46	38	
176+48.00	TO	178+71.64	RT	223.64	58.50		57.50	57.50	58.50		171.07	57.50	56.07	1453.66		1428.81	1428.81	1453.66		4250.91	1428.81	1393.29		0.73	44	1454		338	242		234	7	69	58	
178+71.64	TO	181+23.93	RT	252.29	58.50		57.50	57.50	58.50		171.07	57.50	56.07	1639.89		1611.85	1611.85	1639.89		4795.49	1611.85	1571.78		0.82	50	1640		381	273		264		78	65	
181+23.93	TO	182+99.10	RT	175.17	58.50		57.50	57.50	58.50		171.07	57.50	56.07	1138.60		1119.14	1119.14	1138.60		3329.60	1119.14	1091.32		0.57	35	1139		265	190		183	5	54	45	
182+99.10	TO	183+99.10	RT	100	58.50		57.50	57.50	58.50		171.07	57.50	56.07	650.00		638.89	638.89	650.00		1900.78	638.89	623.01		0.33	20	650		151	108		105	3	31	26	
183+99.10	TO	187+53.64	RT	354.54	63.50		62.50	62.50	63.50		186.09	62.50	61.09	2501.48		2462.08	2462.08	2501.48		7330.85	2462.08	2406.69		1.25	76	2501		582	417		403	11	120	100	
187+53.64	TO	188+19.29	RT	65.65	69.25		68.25	68.25	69.25		203.34	68.25	66.84	505.14		497.85	497.85	505.14		1483.28	497.85	487.59		0.25	16	505		118	84		82	2	24	20	
188+19.29	TO	188+68.64	RT	49.35	71.60		70.60	70.60	71.60		210.39	70.60	69.19	392.61		387.12	387.12	392.61		1153.66	387.12	379.41		0.20	12	393		92	65		63	2	19	16	
TOTALS CARRIED TO SHEET P.290																								41	2497	81723		19149	13565		13179	125	3919	3256	

Preliminary Plans Not For Reference Only

PAVEMENT SUBSUMMARY

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER ASEP
REVIEWER KKP 05/01/26
PROJECT ID 105743
SHEET P.289 TOTAL P.1269

MODEL: Unnamed Plan - NB Sheet 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:45:43 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GS001.dgn

STATION TO STATION			SIDE	L	W1A	W1B	W2A	W2B	W3	W4A	W4B	W5	W6	LxW1A	LxW1B	LxW2A	LxW2B	LxW3	LxW4	LxW4B	LxW5	LxW6	202	204	206	206	254	302	304	407	407	441	442	442	442	442
				LENGTH	AVERAGE WIDTH W1 (ITEMS 206)	AVERAGE WIDTH W1B (ITEMS 254)	AVERAGE WIDTH W2A (ITEMS 302, TOP LIFT)	AVERAGE WIDTH W2B (ITEMS 302, BOTTOM LIFT)	AVERAGE WIDTH W3 (ITEMS 304)	AVERAGE WIDTH W4 (ITEM 407, 702.13)	AVERAGE WIDTH W4 (ITEM 407, NON-TRACKING)	AVERAGE WIDTH W5 (ITEMS 442) INTERMEDIATE COURSE	AVERAGE WIDTH W6 (ITEMS 442) SURFACE COURSE	AVERAGE AREA (ITEMS 206)	AVERAGE AREA (ITEMS 254)	AVERAGE AREA (ITEMS 302, TOP LIFT)	AVERAGE AREA (ITEMS 302, BOTTOM LIFT)	AVERAGE AREA (ITEMS 304)	AVERAGE AREA (ITEMS 407, TACK COAT 702.13)	AVERAGE AREA (ITEMS 407, NON-TRACKING)	AVERAGE AREA (ITEMS 442)	AVERAGE AREA (ITEMS 442)	WEARING COURSE REMOVED	PROOF ROLLING	CEMENT	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	ASPHALT CONCRETE BASE, PG64-22, (449), T = 8.5"	AGGREGATE BASE, T = 6"	TACK COAT, 702.13, (0.085 GAL/SQ YD)	NON-TRACKING TACK COAT	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446), T = 1.75"	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, T = 1.5"	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (449), AS PER PLAN
				FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	SY	SY	SY	SY	SY	SY		SY	SY	SY	HOUR	TON	SY	SY	CY	CY	GAL	GAL	CY	CY	CY	CY
IR-77 NB (CONT.)																																			
188+68.64	TO	191+07.29	RT	238.65	84.25		83.25	83.25	84.25		248.34	83.25	81.84	2234.03		2207.51	2207.51	2234.03		6585.25	2207.51	2170.22		1.12	68	2234		522	372		362	7	107	90	
191+07.29	TO	194+71.85	RT	364.56	58.50		58.33	57.83	58.50		171.93	57.50	56.09	2369.64		2362.89	2342.50	2369.64		6964.19	2329.13	2272.17		1.18	72	2370		556	395		383		113	95	
194+71.85	TO	197+12.01	RT	240.16	58.50		58.33	57.83	58.50		171.93	57.50	56.09	1561.04		1556.59	1543.16	1561.04		4587.78	1534.36	1496.83		0.78	48	1561		366	260		252	7	75	62	
197+12.01	TO	197+50.00	RT	37.99	60.40		60.23	59.73	60.40		177.63	59.40	57.99	254.96		254.25	252.13	254.96		749.78	250.73	244.80		0.13	8	255		60	42		41	1	12	10	
197+50.00	TO	198+12.01	RT	62.01	67.90		67.40	66.90	67.90		194.79	64.40	62.99	467.83		464.39	460.94	467.83		1342.13	443.72	434.03		0.23	15	468		110	78		74		22	18	
198+12.01	TO	198+50.00	RT	37.99	71.00		70.50	70.00	71.00		206.26	69.67	66.09	299.70		297.59	295.48	299.70		870.65	294.07	278.99		0.15	10	300		71	50		48		14	12	
198+50.00	TO	199+38.00	RT	88	68.50		68.33	67.83	68.50		201.93	67.50	66.09	669.78		668.15	663.23	669.78		1974.40	660.00	646.25		0.33	21	670		158	112		109		32	27	
199+38.00	TO	201+36.65	RT	198.65	70.50		70.33	69.83	70.50		207.93	69.50	68.09	1556.09		1552.41	1541.30	1556.09		4589.41	1534.02	1502.98		0.78	47	1556		366	259		252		75	63	
201+36.65	TO	203+83.61	RT	246.96	84.00		83.83	83.33	84.00		248.43	83.00	81.59	2304.96		2300.39	2286.58	2304.96		6816.84	2277.52	2238.93		1.15	70	2305		542	384		375		111	93	
203+83.61	TO	208+08.00	RT	424.39	57.50		57.33	56.83	57.50		168.93	56.50	55.09	2711.38		2703.52	2679.79	2711.38		7965.66	2664.23	2597.92		1.36	82	2711		636	452		438		130	108	
208+08.00	TO	208+40.00	RT	32	42.00	13.50	42.00	42.00	42.00		151.59	55.50	54.09	149.33	48.00	149.33	149.33	149.33		539.00	197.33	192.33		0.07	5	149	48	36	25		30			8	10
208+40.00	TO	209+40.00	RT	100	42.00	18.75	42.00	42.00	42.00		162.09	60.75	59.34	466.67	208.33	466.67	466.67	466.67		1801.04	675.00	659.38		0.23	15	467	209	111	78		99			27	33
209+40.00	TO	209+56.00	RT	16	42.00	24.00	42.00	42.00	42.00		172.59	66.00	64.59	74.67	42.67	74.67	74.67	74.67		306.83	117.33	114.83		0.04	3	75	43	18	12		17			5	6
209+56.00	TO	211+33.75	RT	177.75	30	36	30	30	30		160.59	66	64.59	592.50	711.00	592.50	592.50	592.50		3171.73	1303.50	1275.73		0.30	18	593	711	140	99		174			53	63
211+33.75	TO	211+38.00	RT	4.25	30	36	30	30	30		160.59	66	64.59	14.17	17.00	14.17	14.17	14.17		75.84	31.17	30.50		0.01	1	14	17	4	2		4	1		1	2
211+38.00	TO	213+21.25	RT	183.25	30	36	30	30	30		160.59	66	64.59	610.83	733.00	610.83	610.83	610.83		3269.87	1343.83	1315.20		0.31	19	611	733	145	102		180	6		55	65
213+21.25	TO	214+76.00	RT	154.75	29.3	36.05	29.3	29.3	29.3		158.59	65.35	63.94	503.80	619.86	503.80	503.80	503.80		2726.93	1123.66	1099.48		0.25	16	504	620	119	84		150			46	55
214+76.00	TO	215+28.92	RT	52.92	27.95	36.45	27.95	27.95	27.95		156.75	64.4	64.4	164.35	214.33	164.35	164.35	164.35		921.69	378.67	378.67		0.08	5	164	215	39	27		51			16	18
215+28.92	TO	216+25.47	RT	96.55	27.9	38.4	27.9	27.9	27.9		160.50	66.3	66.3	299.31	411.95	299.31	299.31	299.31		1721.81	711.25	711.25		0.15	10	299	412	71	50		95			30	35
216+25.47	TO	217+91.00	RT	165.53	28.55	45.55	28.55	28.55	28.55		176.75	74.1	74.1	525.10	837.77	525.10	525.10	525.10		3250.83	1362.86	1362.86		0.26	16	525	838	124	88		179			57	66
217+91.00	TO	219+08.18	RT	117.18	29.3	57.05	29.3	29.3	29.3		200.59	86.35	84.94	381.49	742.79	381.49	381.49	381.49		2611.73	1124.28	1105.97		0.19	12	381	743	91	64		144			46	55
219+08.18	TO	219+81.74	RT	73.56	30	25.5	30	30	30		139.59	55.5	54.09	245.20	208.42	245.20	245.20	245.20		1140.95	453.62	442.13		0.12	8	245	209	58	41		63			18	22
219+81.74	TO	220+31.74	RT	50	30	26.5	30	30	30		141.59	56.5	55.09	166.67	147.22	166.67	166.67	166.67		786.63	313.89	306.08		0.08	6	167	148	40	28		43			13	15
220+31.74	TO	220+83.50	RT	51.76	30	27.5	30	30	30		143.59	57.5	56.09	172.53	158.16	172.53	172.53	172.53		825.82	330.69	322.60		0.09	6	173	159	41	29		45			13	16
220+83.50	TO	225+40.00	RT	456.5		57.5					113.59	57.5	56.09		2916.53					5761.73	2916.53	2845.20					2917				317			119	142
225+40.00	TO	227+98.78	RT	258.78		54.5					106.59	54	52.59		1567.06					3064.93	1552.68	1512.25					1568				169			63	75
	TO																																	

STATION TO STATION			SIDE	L	W1	W2	W3	W4	W5	LxW1	LxW2	LxW3	LxW4	LxW5						204	204	206	206	304	304	304	407	441	441	441	452
				LENGTH	AVERAGE WIDTH W1 (ITEMS 206)	AVERAGE WIDTH W2 (ITEMS 304)	AVERAGE WIDTH W3 (ITEMS 441) SURFACE COURSE	AVERAGE WIDTH W4 (ITEMS 441) INTERMEDIATE COURSE	AVERAGE WIDTH W5 (ITEMS 452)	AVERAGE AREA (ITEMS 206)	AVERAGE AREA (ITEMS 304)	AVERAGE AREA (ITEMS 441)	AVERAGE AREA (ITEMS 441)	AVERAGE AREA (ITEMS 452)	CADD GENERATED AREA (ITEM 206)	CADD GENERATED AREA (ITEM 304, T=4")	CADD GENERATED AREA (ITEM 304, T=6")	CADD GENERATED AREA (ITEM 441)	CADD GENERATED AREA (ITEM 452)	SUBGRADE COMPACTION	PROOF ROLLING	CEMENT	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	AGGREGATE BASE, T = 4"	AGGREGATE BASE, T = 6"	AGGREGATE BASET=8"	TACK COAT, 702.13(0.085 GAL/SQ YD)	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22, T=1.25"	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), T=1.75"	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN	12" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P
				FT	FT	FT	FT	FT	FT	SY	SY	SY	SY	SY	SF	SF	SF	SF	SF	SY	HOUR	TON	SY	CY	CY	CY	GAL	CY	CY	CY	SY
RAMP A3																															
302+00.00	TO	303+72.75	LT	172.75	28	28			25	537.44	537.44			479.86							0.27	16	537		90					480
303+72.75	TO	306+52.63	LT	279.88	28	28			25	870.74	870.74			777.44							0.44	26	871		145					778
306+52.63	TO	307+02.63	LT	50	29	29			26	161.11	161.11			144.44							0.08	5	161		27					145
300+58.83	TO	301+46.33	LT	87.5	29	29			26	281.94	281.94			252.78							0.14	9	282		47				3	
300+00.00	TO	302+00.00	LT	200											6842.19	1831.08	6842.19		6087.93		3.42	207	760	23	127					677
RAMPA4																															
401+00.00	TO	405+69.77	RT	469.77	28	28			25	1461.51	1461.51			1304.92							0.73		1462		244					1305
400+00.00	TO	401+00.00	RT	100											3272.18		3272.18		3012.09		1.64	99	364		61					335
400+95.00	TO	401+95.00	RT	100																									3		
RAMP B1																															
104+35.01	TO	105+50.00	RT	114.99	30.167	30.167			30.167	385.43	385.43			385.43							0.19	12	385		64				4	386
105+50.00	TO	105+70.22	RT	20.22	30.567	30.567			30.567	68.67	68.67			68.67							0.03	2	69		11				1	69
105+70.22	TO	106+00.00	RT	29.78	31.35	31.35			28.35	103.73	103.73			93.81							0.05	3	104		17					94
106+00.00	TO	107+25.00	RT	125	34.33	34.33			31.33	476.74	476.74			435.07							0.24	14	477		79					436
107+25.00	TO	108+08.00	RT	83	39.66	39.66			36.66	365.75	365.75			338.09							0.18	11	366		61					339
108+08.00	TO	108+20.00	RT	12	41.29	41.29			38.29	55.05	55.05			51.05							0.03	2	55		9					52
108+20.00	TO	109+15.89	RT	95.89	40	40			37	426.18	426.18			394.21							0.21	13	426		71					395
RAMPB2																															
202+62.20	TO	204+25.76	LT	163.56	28.05	28.05			25.13	509.76	509.76			456.60							0.25	15	510		85				5	457
204+25.76	TO	204+73.30	LT	47.54	28.20	28.20			25.28	148.96	148.96			133.51							0.07	4	149		25					134
RAMP B3																															
301+70.17	TO	301+95.52	LT	25.35	40.00	40.00			37.00	112.67	112.67			104.22							0.06	3	113		19					105
301+95.52	TO	302+50.00	LT	54.48	40.00	40.00			37.00	242.13	242.13			223.97							0.12	7	242		40				2	224
302+50.00	TO	303+50.00	LT	100	35.90	35.90			32.90	398.89	398.89			365.56							0.20	12	399		66				3	366
303+50.00	TO	304+80.00	LT	130	29.90	29.90			26.90	431.89	431.89			388.56							0.22	13	432		72				4	389
304+80.00	TO	307+12.85	LT	232.85	28.00	28.00			25.00	724.42	724.42			646.81							0.36	22	724		121				7	647
307+12.85	TO	307+62.85	LT	50	29.00	29.00			26.00	161.11	161.11			144.44							0.08	5	161		27				2	145
RAMP B4																															
401+75.00	TO	402+00.00	RT	25	27.45	27.45			24.45	76.25	76.25			67.92							0.04	2	76		13					68
402+00.00	TO	405+22.55	RT	322.55	28.00	28.00			25.00	1003.49	1003.49			895.97							0.50	30	1003		167					896
RAMP C1																															
104+81.00	TO	105+04.33	RT	23.33	29.00	29.00			26.00	75.17	75.17			67.40							0.04	2	75		13					68
105+04.33	TO	105+31.00	RT	26.67	29.00	29.00			26.00	85.94	85.94			77.05							0.04	3	86		14				1	78
105+31.00	TO	110+04.33	RT	473.33	28.00	28.00			25.00	1472.58	1472.58			1314.81							0.74	44	1473		245				15	1315
110+04.33	TO	110+70.00		65.67	28.00	28.00			25.00	204.31	204.31			182.42							0.10	6	204		34					183
110+70.00	TO	111+20.00	RT	50	27.50	27.50			24.50	152.78	152.78			136.11							0.08	5	153		25					137
111+20.00	TO	112+00.00	RT	80	27.00	27.00			24.00	240.00	240.00			213.33							0.12	7	240		40					214
RAMP C2																															
201+50.00	TO	202+40.00	LT	90	27	27			24	270.00	270.00			240.00							0.14	8	270		45					240
202+40.00	TO	203+00.00	LT	60	26.5	26.5			23.5	176.67	176.67			156.67							0.09	5	177		29					157
203+00.00	TO	203+89.76	LT	89.76	26	26			23	259.31	259.31			229.39							0.13	8	259		43					230
203+89.76	TO	204+28.48	LT	38.72	26.75	26.75			23.75	115.08	115.08			102.18							0.06	3	115		19					103
RAMP C3																															
300+46.76	TO	300+75.00	RT	28.24											807.542		807.542		724.223		0.40	24	90		15					81
300+75.00	TO	300+81.95	RT	6.95	28	28			25	21.62	21.62			19.31							0.01	1	22		4					20
300+81.95	TO	302+82.32	RT	200.37	28	28			25	623.37	623.37			556.58							0.31	19	623		104				6	557
302+82.32	TO	304+21.41	RT	139.09	28	28			25	432.72	432.72			386.36							0.22	13	433		72					387
RAMP D1																															
103+45.15	TO	103+95.15	RT	50	29	29			26	161.11	161.11			144.44							0.08	5	161		27				2	145
102+95.15	TO	104+50.00	RT	154.85	28	28			25	481.76	481.76			430.14							0.24	15	482		80				5	431
104+50.00	TO	106+46.05	RT	196.05	28	28			25	609.93	609.93			544.58							0.30	18	610		102					545
106+45.05	TO	107+00.02	RT	54.97	28	28			25	171.02	171.02			152.69							0.09	5	171		29					153
TOTALS CARRIED TO P.292																					13	725	15772	23	2628				60	13966

Preliminary Plans - For Reference Only

PAVEMENT SUBSUMMARY

CUY-77-11.41 - PART 1

DESIGN AGENCY: HNTB

DESIGNER: ASEP

REVIEWER: KKP 05/01/26

PROJECT ID: 105743

SHEET: P.291 TOTAL: P.1269

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pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GS001.dgn

STATION TO STATION			SIDE	L	W1	W2	W3	W4	W5	LxW1	LxW2	LxW3	LxW4	LxW5						204	204	206	206	304	304	304	407	441	441	441	452
				LENGTH	AVERAGE WIDTH W1 (ITEMS 206)	AVERAGE WIDTH W2 (ITEMS 304)	AVERAGE WIDTH W3 (ITEMS 441) SURFACE COURSE	AVERAGE WIDTH W4 (ITEMS 441) INTERMEDIATE COURSE	AVERAGE WIDTH W5 (ITEMS 452)	AVERAGE AREA (ITEMS 206)	AVERAGE AREA (ITEMS 304)	AVERAGE AREA (ITEMS 441)	AVERAGE AREA (ITEMS 441)	AVERAGE AREA (ITEMS 452)	CADD GENERATED AREA (ITEM 206)	CADD GENERATED AREA (ITEM 304, T=4")	CADD GENERATED AREA (ITEM 304)	CADD GENERATED AREA (ITEM 441)	CADD GENERATED AREA (ITEM 452)	SUBGRADE COMPACTION	PROOF ROLLING	CEMENT	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	AGGREGATE BASE, T = 4"	AGGREGATE BASE, T = 6"	AGGREGATE BASET=8"	TACK COAT, 702.13	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22, T=1.25"	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), T=1.75"	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN	12" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P
				FT	FT	FT	FT	FT	FT	SY	SY	SY	SY	SY	SF	SF	SF	SF	SF	SY	HOUR	TON	SY	CY	CY	CY	GAL	CY	CY	CY	SY
RAMP D1																															
202+86.05	TO	205+90.00	LT	303.95	28	28			25	945.62	945.62			844.31							0.47	29	946			158				10	845
RAMP E1																															
105+70.26	TO	106+20.26	RT	50	29	29			26	161.11	161.11			144.44							0.08	5	161		27						145
106+20.26	TO	110+50.00	RT	429.74	28	28			25	1336.97	1336.97			1193.72							0.67	40	1337		223						1194
110+50.00	TO	111+50.00	RT	100	28	32			29	311.11	355.56			322.22							0.16	9	311		59						323
111+50.00	TO	113+78.06	RT	228.06											9797.939	3597.3	9797.939		9252.155		4.90	296	1089	45	182						1029
WEST MUP																															
5+25.95	TO	5+55.78		29.83														358.763								9	2	2	2		
5+55.78	TO	18+80.23		1324.45	10	10	10	10		1471.61	1471.61	1471.61	1471.61							1472	0.74					328	88	52	72		
18+80.23	TO	30+33.94		1153.71	12	12	12	12		1538.28	1538.28	1538.28	1538.28							1539	0.77					342	92	54	75		
INTERSECTION (THROUGH 31+37.19)																															
31+37.19	TO	52+69.01		2131.82	14	14	14	14		3316.16	3316.16	3316.16	3316.16							3317	1.66					737	199	116	162		
EAST MUP																															
20+07.98	TO	21+50.79		142.81	20	20	20	20		317.36	317.36	317.36	317.36							318	0.16					71	19	12	16		
21+50.79	TO	26+22.90		472.11	10	10	10	10		524.57	524.57	524.57	524.57							525	0.26					117	31	19	26		
26+22.90	TO	26+58.61		35.71														418.754		47						11	3	2	3		
	TO																											

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pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_GP105.dgn

CUY-77-11.41 - PART 1

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN. I.R. 77
STA. 49+50.00 TO STA. 54+00.00

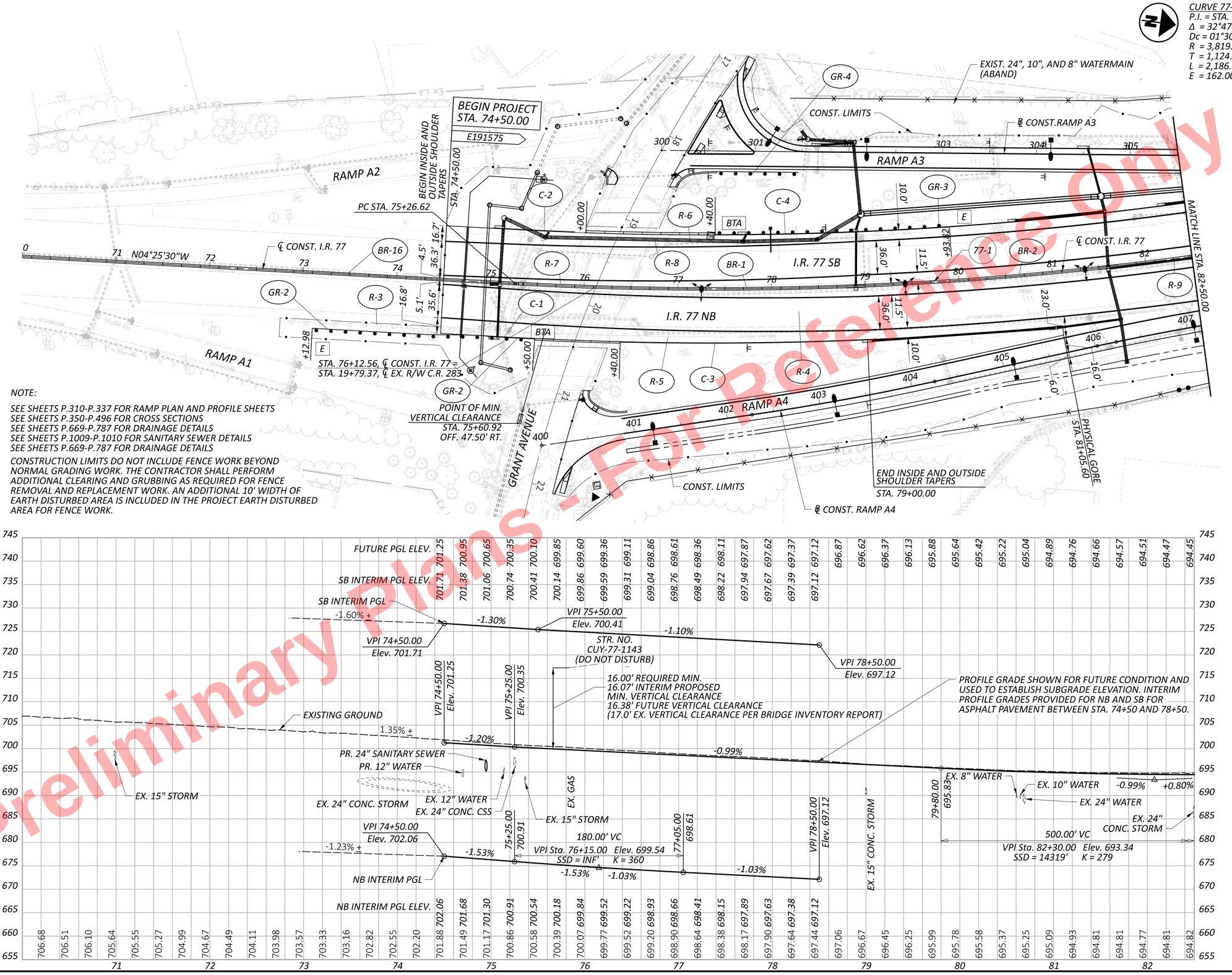
BEGIN WORK
STA. 50+96.87

CURVE 77-0 DATA
P.I. = STA. 59+11.57
Δ = 16°31'08" RT
Dc = 01°00'00"
R = 5,729.58
T = 831.71'
L = 1,651.88'
E = 60.05'

Ex LA-R/W
TR
E
Ex SL
77-0
9
50
51
52
53
5
PC STA. 50+79.86
EXISTING CONCRETE BARRIER. DO NOT DISTURB.
EXISTING OVERHEAD SIGN SUPPORT, DO NOT DISTURB
CONST. LIMITS
GR-1
R-1
R-2
AGGREGATE ACCESS DRIVEWAY, SEE SHEET P.23
BEGIN ACCESS DRIVE
STA. 51+09.00
OFF. 71.50' RT.
EX. BILLBOARD
END ACCESS DRIVE
STA. 52+77.00
OFF. 50.19' RT.
STA. 52+84.61
OFF. 51.46' RT.

DESIGN AGENCY
HNTB

DESIGNER	CLC
REVIEWER	KKP 11/20/25
PROJECT ID	105743
SHEET	P.293
TOTAL	P.1269



NOTE:

SEE SHEETS P.310-P.337 FOR RAMP PLAN AND PROFILE SHEETS
SEE SHEETS P.350-P.496 FOR CROSS SECTIONS
SEE SHEETS P.669-P.787 FOR DRAINAGE DETAILS
SEE SHEETS P.1009-P.1010 FOR SANITARY SEWER DETAILS
SEE SHEETS P.669-P.787 FOR DRAINAGE DETAILS

CONSTRUCTION LIMITS DO NOT INCLUDE FENCE WORK BEYOND NORMAL GRADING WORK. THE CONTRACTOR SHALL PERFORM ADDITIONAL CLEARING AND GRUBBING AS REQUIRED FOR FENCE REMOVAL AND REPLACEMENT WORK. AN ADDITIONAL 10' WIDTH OF EARTH DISTURBED AREA IS INCLUDED IN THE PROJECT EARTH DISTURBED AREA FOR FENCE WORK.

Preliminary Plans - For Reference Only

PLAN AND PROFILE - I.R. 77
STA. 70+00.00 STA. 82+50.00

CUY-77-11.41 - PART 1

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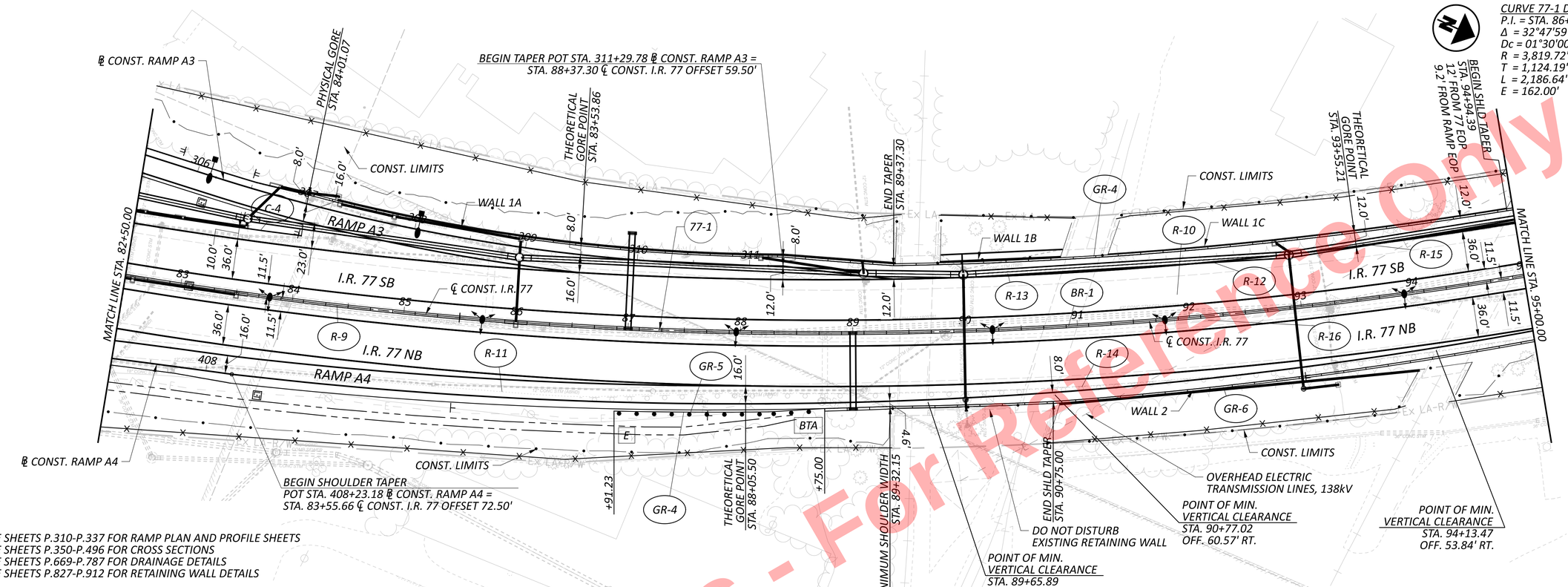
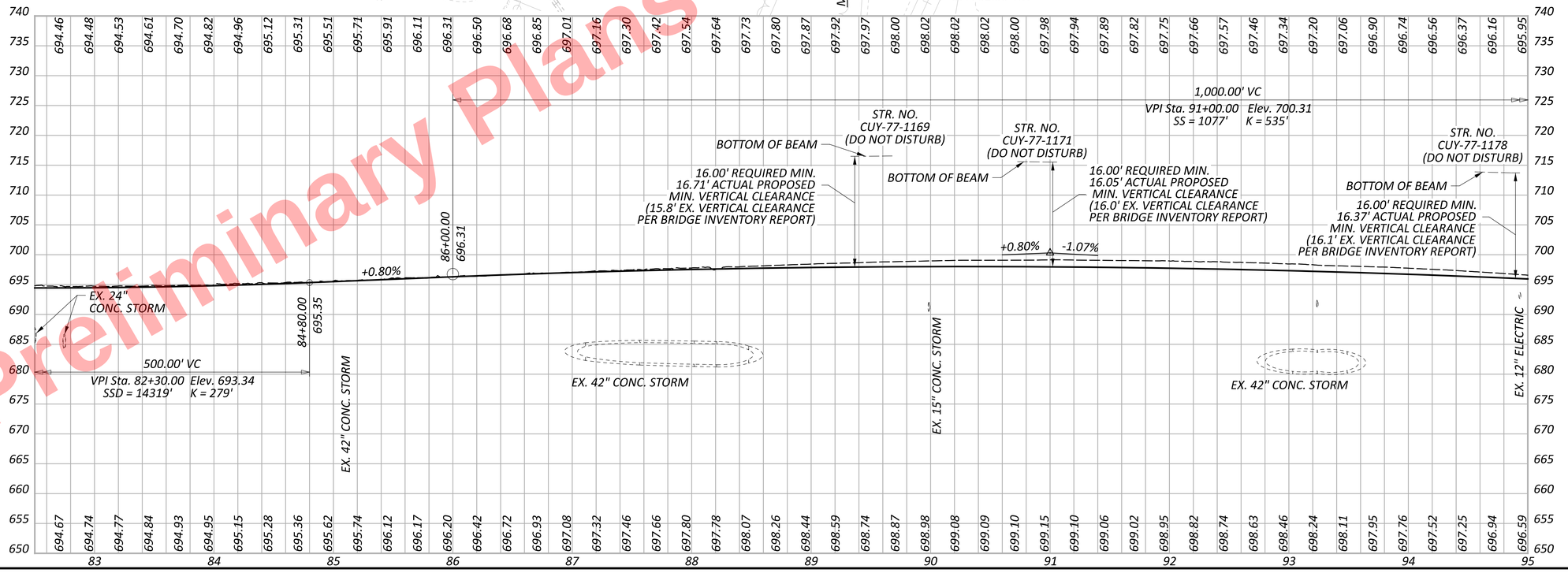
DESIGN AGENCY
HNTB

DESIGNER	EAP
REVIEWER	KKP 04/01/22
PROJECT ID	105743
SHEET	P.294
TOTAL	P.1269

Preliminary Plans - For Reference Only





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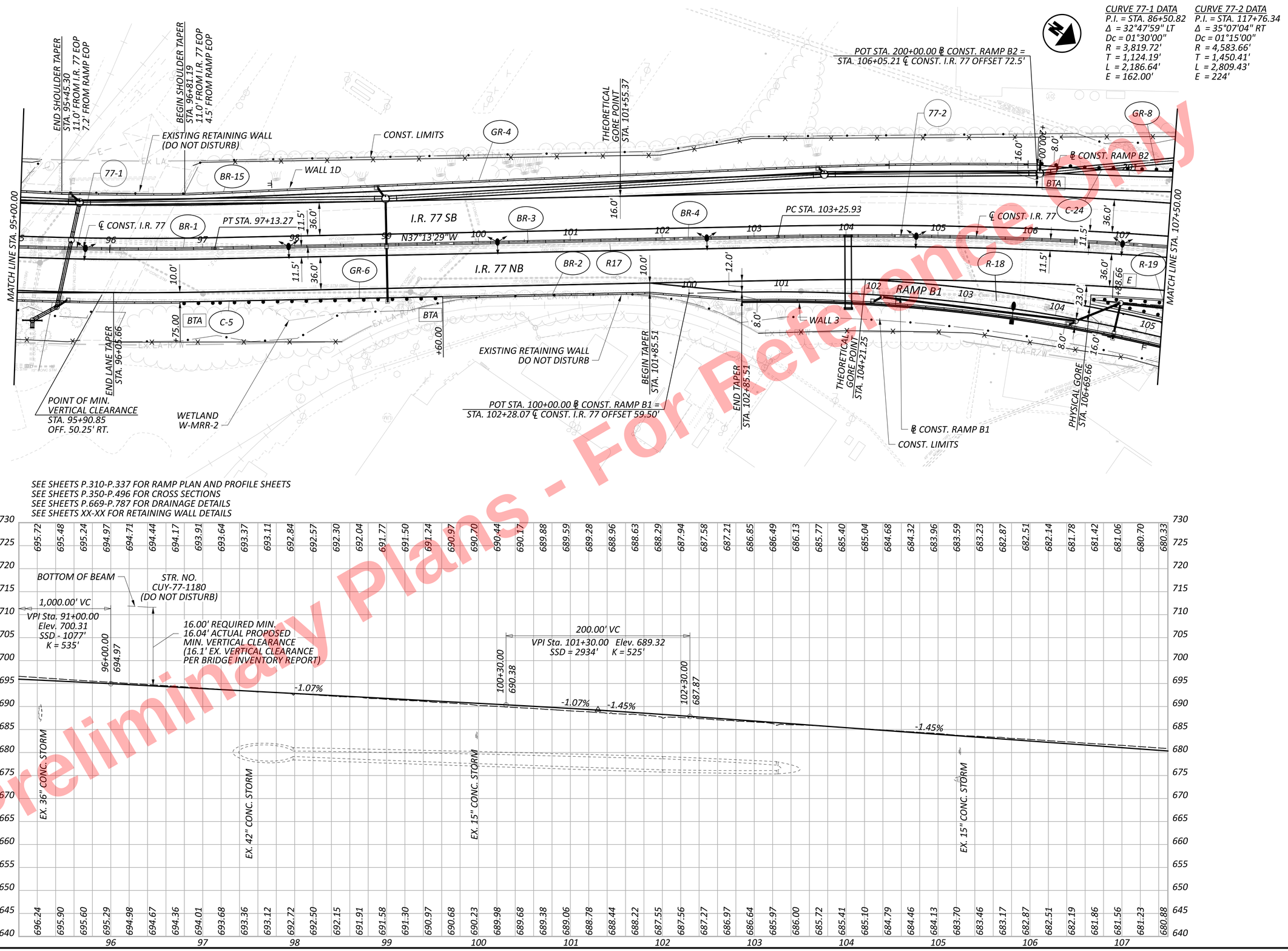
CUY-77-11.41 - PART 1

HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - I.R. 77
STA. 82+50.00 TO STA. 95+00.00

DESIGN AGENCY
HNTB

DESIGNER	EAP
REVIEWER	KKP 04/01/22
PROJECT ID	105743
SHEET	P.295
TOTAL	P.1269



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET 0 25 50 100

PLAN AND PROFILE - I.R. 77
STA. 95+00.00 TO STA. 107+50.00

DESIGN AGENCY: HNTB

DESIGNER: EAP

REVIEWER: KKP 04/01/22

PROJECT ID: 105743

SHEET: P.296 TOTAL: P.1269

CUY-77-11.41 - PART 1

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Preliminary Plans - For Reference Only

VILLAGE OF CUYAHOGA HEIGHTS

VILLAGE OF NEWBURGH HEIGHTS

WETLAND W-MRR-6 (DND)

CONST. LIMITS

℄ CONST. RAMP B3

CONST. LIMITS

WETLAND W-EVN-1

CURVE 77-2 DATA
P.I. = STA. 117+76.34
Δ = 35°07'04" RT
Dc = 01°15'00"
R = 4,583.66'
T = 1,450.41'
L = 2,809.43'
E = 224'

HORIZONTAL SCALE IN FEET
0 25 50 100

PHYSICAL GORE STA. 108+64.93

℄ CONST. RAMP B2

GR-4 C-24

CONST. LIMITS

HARVARD AVENUE

RAMP B3

CONST. LIMITS

PHYSICAL GORE STA. 119+57.69

RAMP B2

POINT OF MIN. VERTICAL CLEARANCE STA. 112+08.42 OFF. 49.99' LT.

C-6 BTA GR-9 E R-20 77-2 GR-10 R-26

BR-4 I.R. 77 SB R-23 R-21

MATCH LINE STA. 107+50.00

R-19 R-22

℄ CONST. I.R. 77

EX. 18" RCP

I.R. 77 NB

℄ CONST. I.R. 77

MATCH LINE STA. 120+00.00

EX. ELEC.

BTA C-7 R-25 R-24

℄ CONST. RAMP B1

RAMP B1

RAMP B4

℄ CONST. RAMP B4

CONST. LIMITS

GR-8

BR-2

CONST. LIMITS

R-27

PHYSICAL GORE STA. 117+83.77

STA. 112+54.60 ℄ CONST. I.R. 77 =
STA. 13+00.62 ℄ EX. R/W C.R. 43

WETLAND W-MRR-4

WETLAND W-MRR-3

OVERHEAD ELECTRIC AND TELECOM LINES (TO BE RELOCATED BY OTHERS)

SEE SHEETS P.310-P.337 FOR RAMP PLAN AND PROFILE SHEETS.
SEE SHEETS P.350-P.496 FOR CROSS SECTIONS.
SEE SHEETS P.699-P.787 FOR DRAINAGE DETAILS.

STR. NO. CUY-77-1212 (DO NOT DISTURB)

BOTTOM OF BEAM

16.00' REQUIRED MIN.
16.11' ACTUAL PROPOSED
MIN. VERTICAL CLEARANCE
(16.0' EX. VERTICAL CLEARANCE
PER BRIDGE INVENTORY REPORT)

-1.45%

EXISTING GROUND

PROPOSED GRADE

EX. 12" CONC. STORM
EX. 12" PVC SAN.
EX. 36" WATER
PR. 36" WATER
EX. 12" ELECTRIC

EX. 15" CONC. STORM

EX. 18" CONC. CSS

EX. 48" CONC. CSS

EX. 24" PVC SAN.

EX. 12" CONC. STORM

EX. 6" GAS
EX. 16" SAN
EX. 12" CONC. STORM

715 710 705 700 695 690 685 680 675 670 665 660 655 650 645 640 635 630 625

679.97 679.61 679.25 678.89 678.52 678.16 677.80 677.44 677.07 676.71 676.35 675.99 675.63 675.26 674.90 674.54 674.18 673.82 673.45 673.09 672.73 672.37 672.01 671.64 671.28 670.92 670.56 670.19 669.83 669.47 669.11 668.75 668.38 668.02 667.66 667.30 666.94 666.57 666.21 665.85 665.49 665.12 664.76 664.40 664.04 663.68 663.31 662.95 662.59 662.23

680.57 680.31 679.90 679.52 679.19 678.84 678.40 678.10 677.79 677.40 677.12 676.79 676.42 676.02 675.69 675.39 675.07 674.74 674.44 674.17 673.89 673.59 673.27 672.96 672.67 672.38 672.11 671.72 671.53 671.23 670.88 670.56 670.06 669.60 669.17 668.77 668.38 667.98 667.51 667.41 667.04 666.70 666.29 665.89 665.47 665.10 664.77 664.38 664.09 663.69

108 109 110 111 112 113 114 115 116 117 118 119 120

PLAN AND PROFILE - I.R. 77
STA. 107+50.00 TO STA. 120+00.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.297 TOTAL P.1269

CUY-77-11.41 - PART 1

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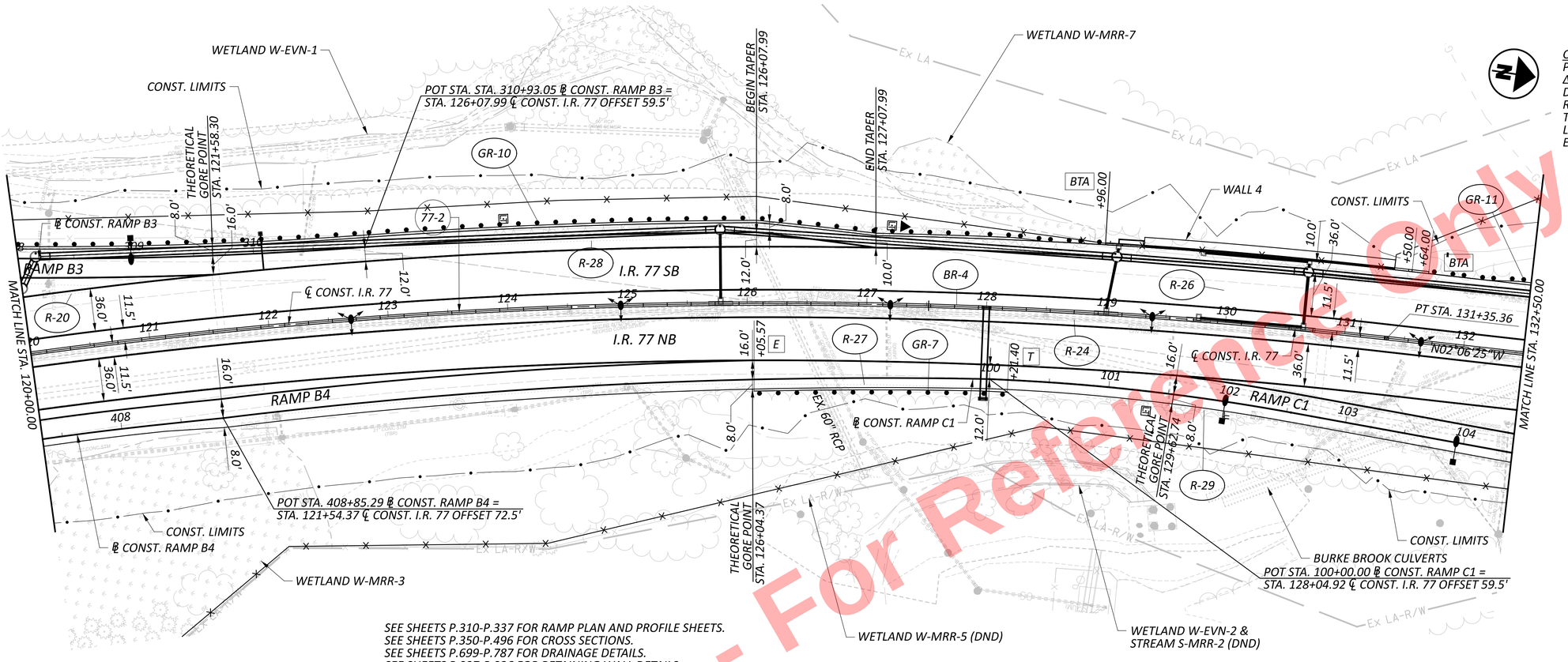
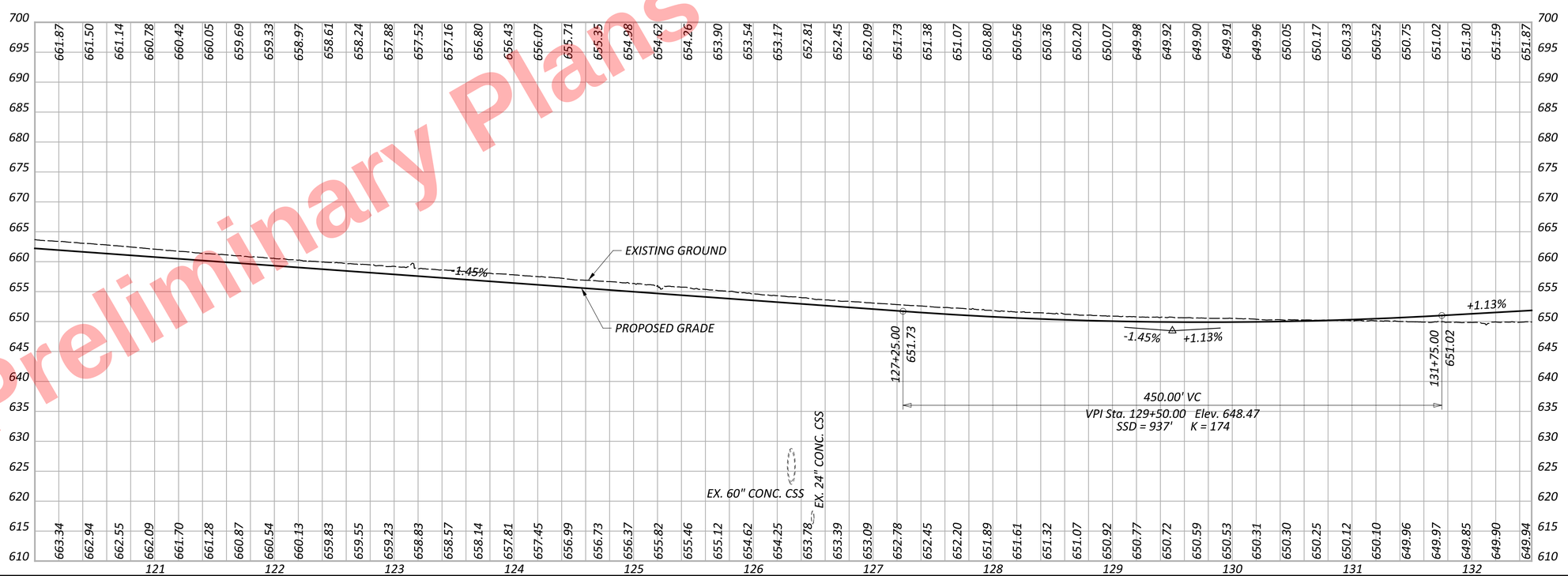


SEE SHEETS P.310-P.337 FOR RAMP PLAN AND PROFILE SHEETS.
SEE SHEETS P.350-P.496 FOR CROSS SECTIONS.
SEE SHEETS P.699-P.787 FOR DRAINAGE DETAILS.
SEE SHEETS P.927-P.936 FOR RETAINING WALL DETAILS.



Preliminary Plans - For Reference Only

PLAN AND PROFILE - I.R. 77
STA. 120+00.00 TO STA. 132+50.00

DESIGN AGENCY
HNTB

DESIGNER	EAP
REVIEWER	KKP 04/01/22
PROJECT ID	105743
SHEET	P.298
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:12:52 PM USER: apendleton
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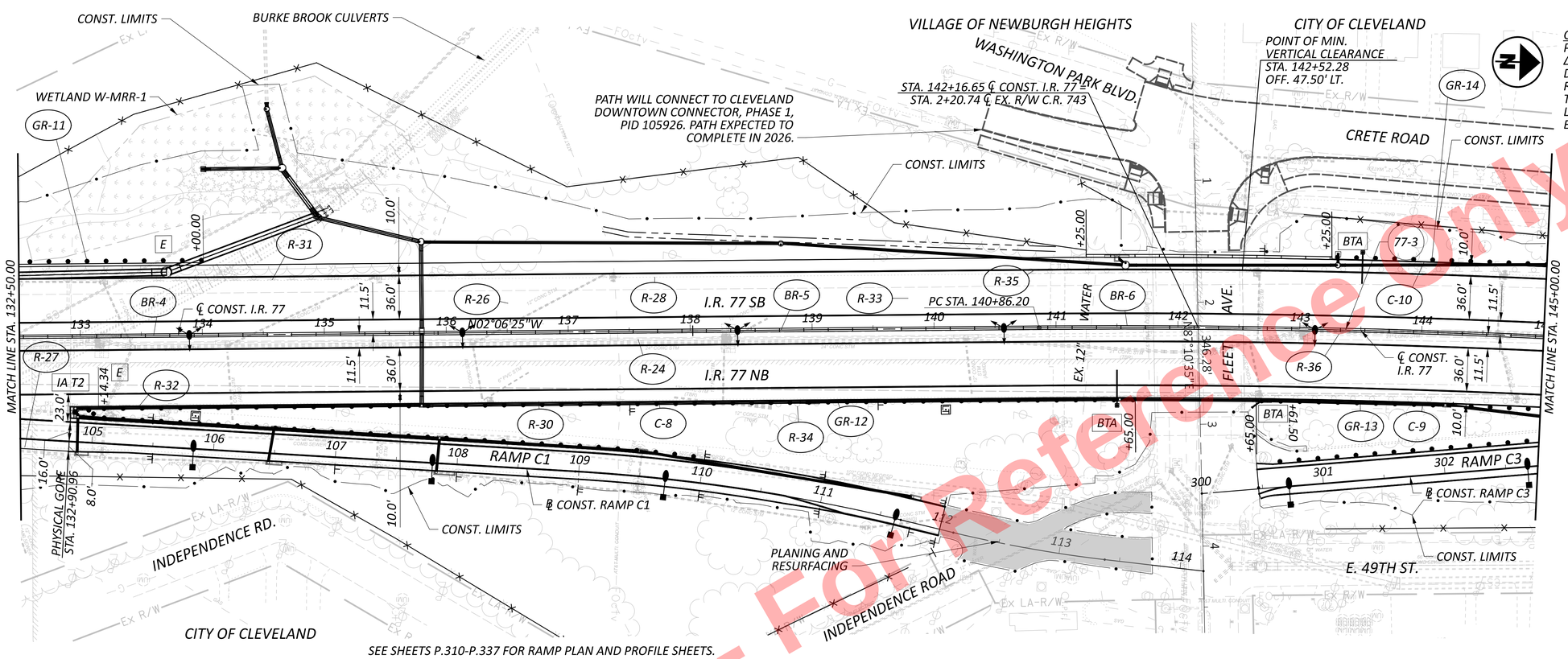

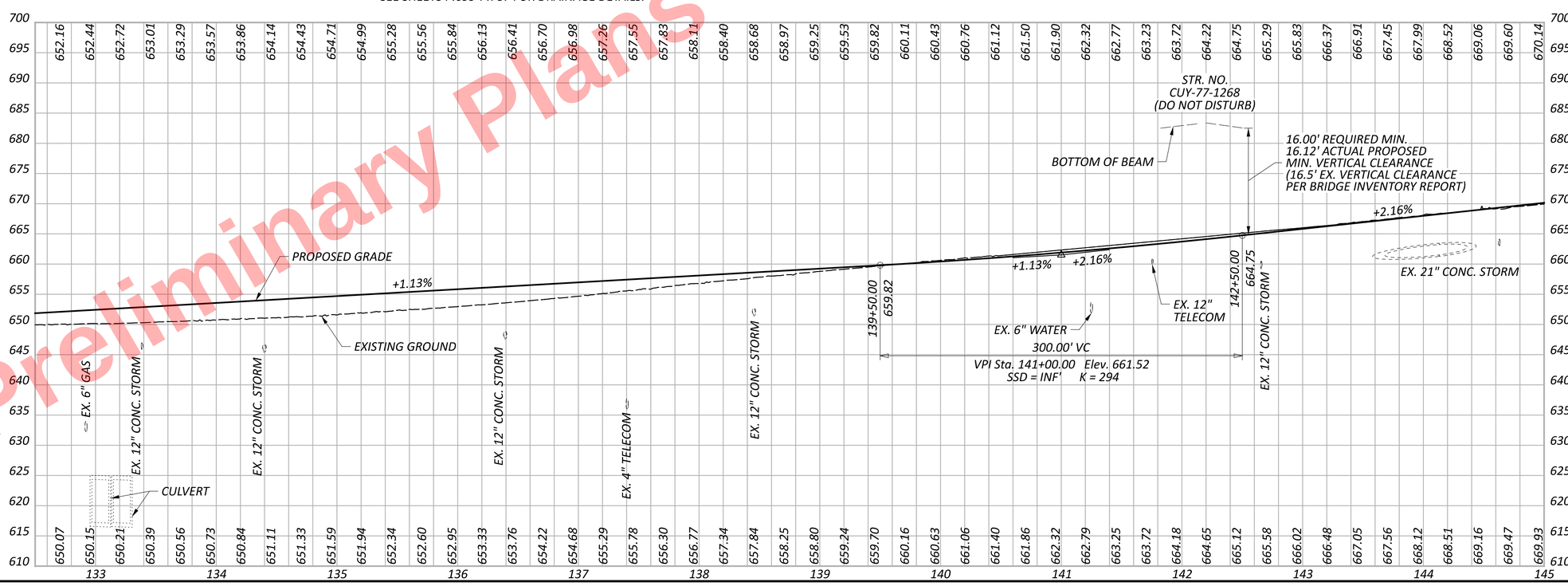

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - I.R. 77
STA. 132+50.00 TO STA. 145+00.00

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER	EAP
REVIEWER	KKP 04/01/22
PROJECT ID	105743
SHEET	P.299
TOTAL	P.1269

MODEL: CLP_I077 - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:12:55 PM USER: apendleton
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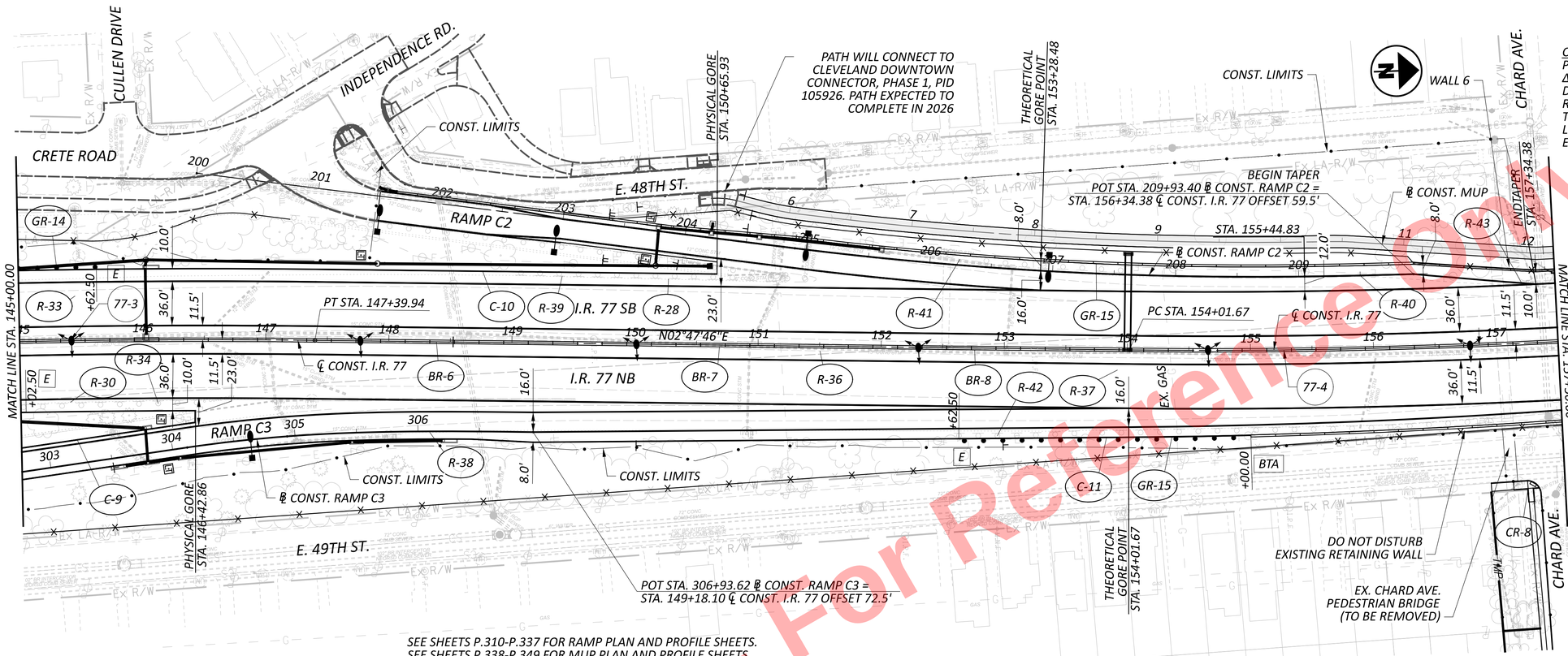
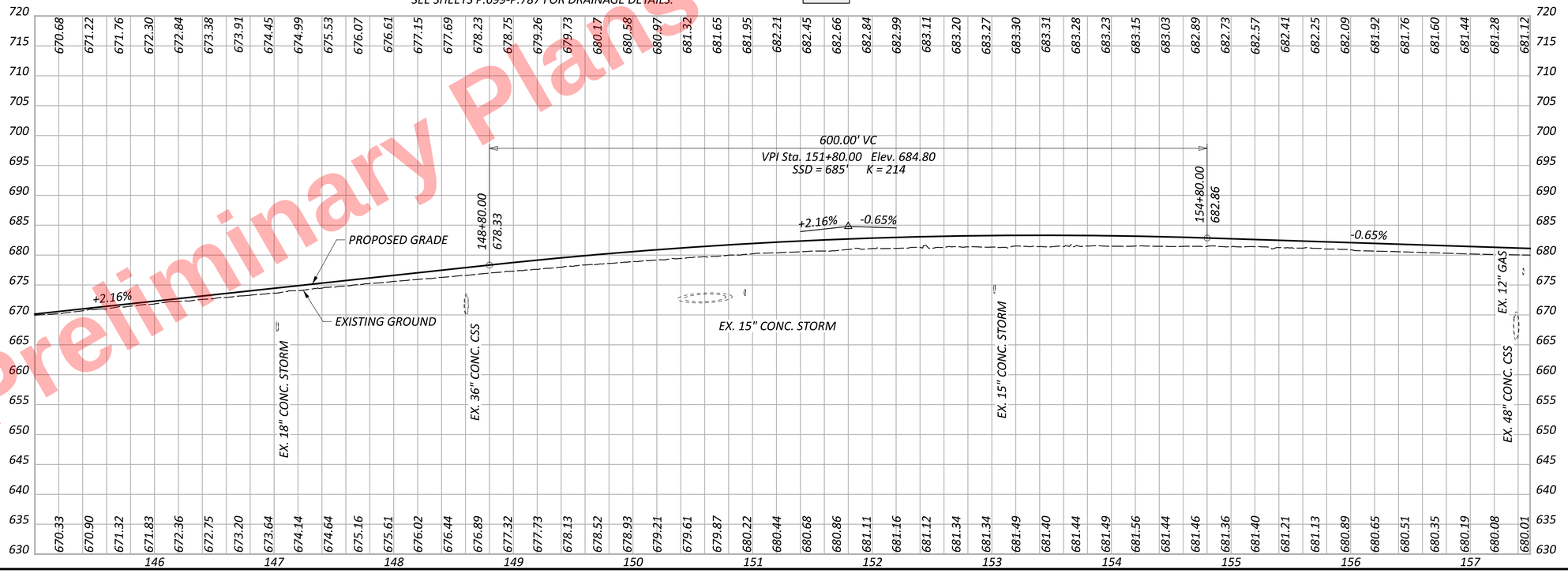
Preliminary Plans - For Reference Only



SEE SHEETS P.310-P.337 FOR RAMP PLAN AND PROFILE SHEETS.
SEE SHEETS P.338-P.349 FOR MUP PLAN AND PROFILE SHEETS.
SEE SHEETS P.350-P.496 FOR CROSS SECTIONS.
SEE SHEET P.698 FOR BRIDGE AND CURB RAMP REMOVAL DETAILS.
SEE SHEETS P.699-P.787 FOR DRAINAGE DETAILS.

MULTI-USE PATH



HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - I.R. 77
STA. 145+00.00 TO STA. 157+50.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.300 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:13:17 PM USER: apendleton
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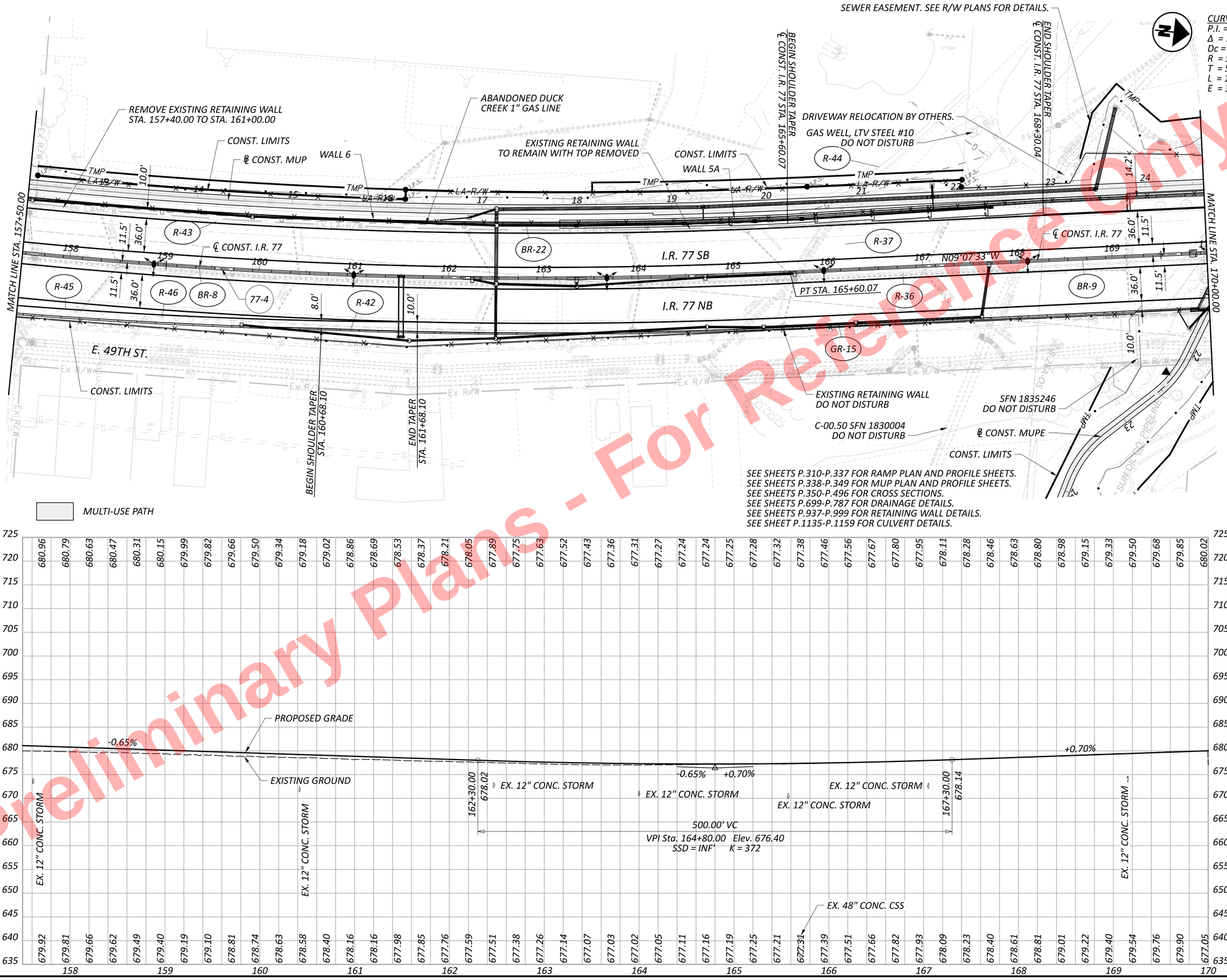

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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PLAN AND PROFILE - I.R. 77
STA. 157+50.00 TO STA. 170+00.00

DESIGN AGENCY
HNTB

DESIGNER	EAP
REVIEWER	KKP 04/01/22
PROJECT ID	105743
SHEET	P.301
TOTAL	P.1269

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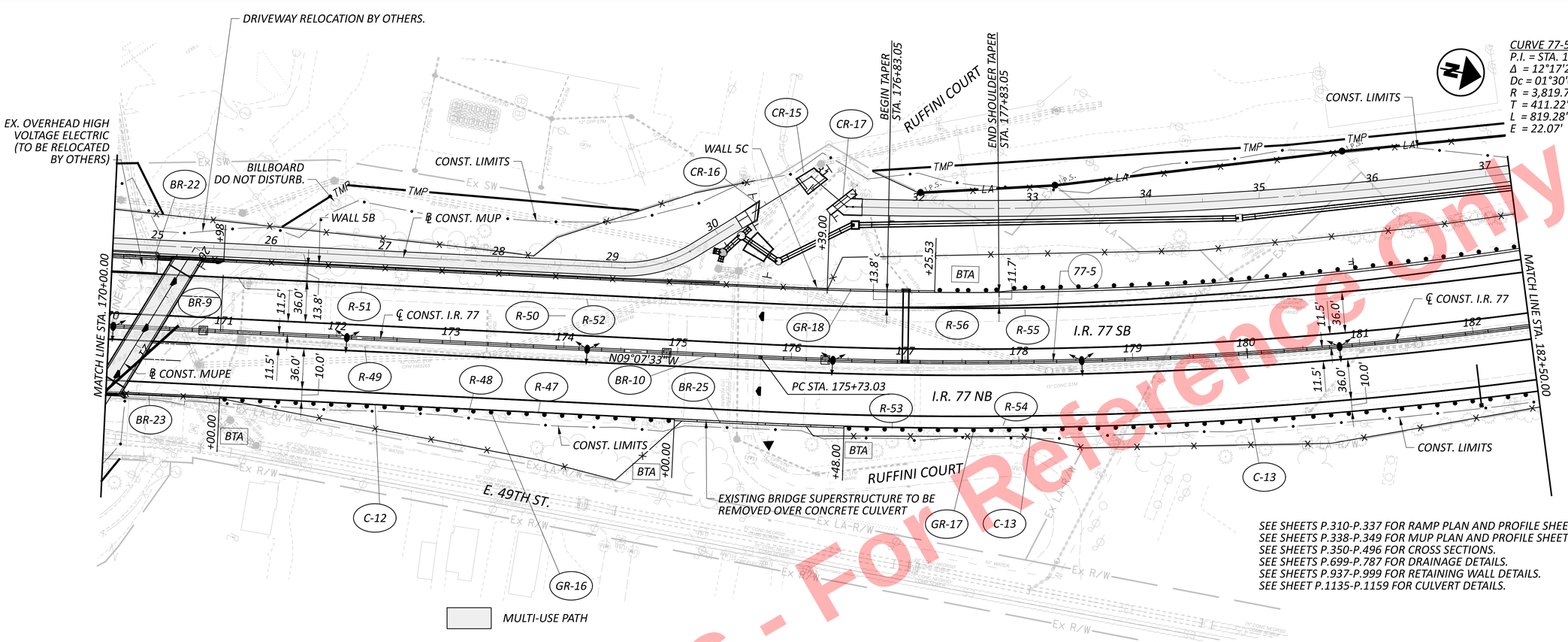
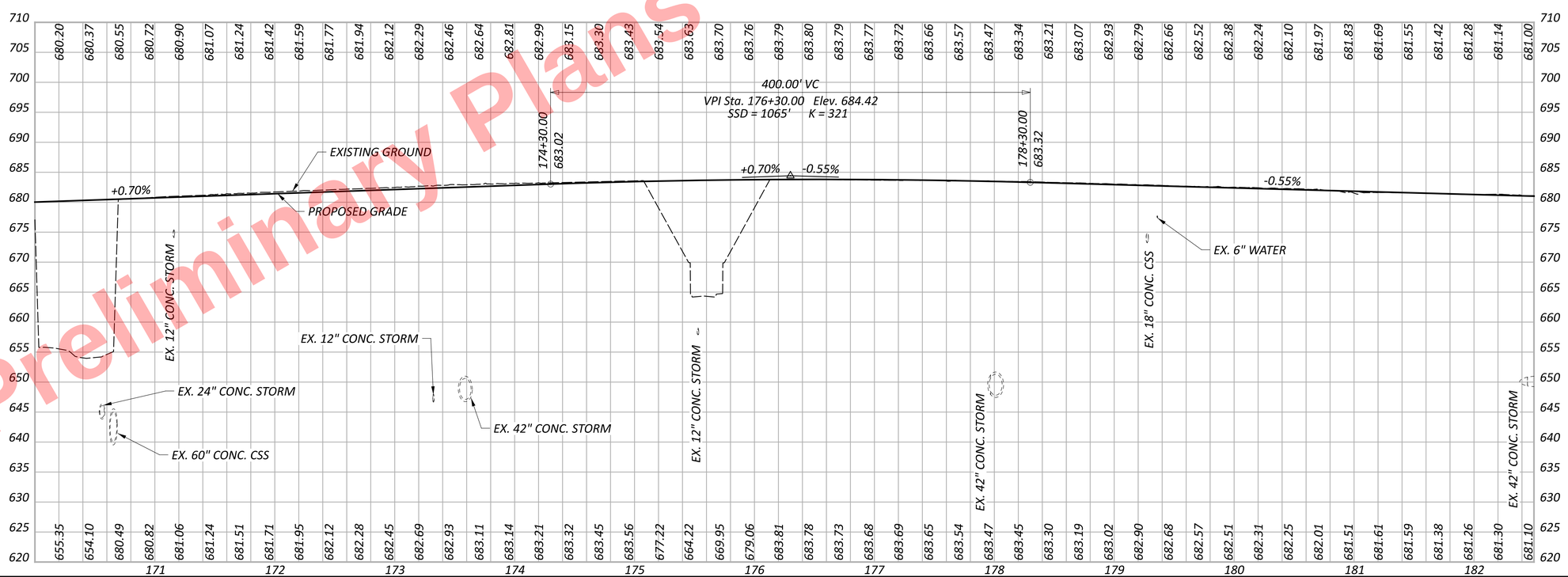


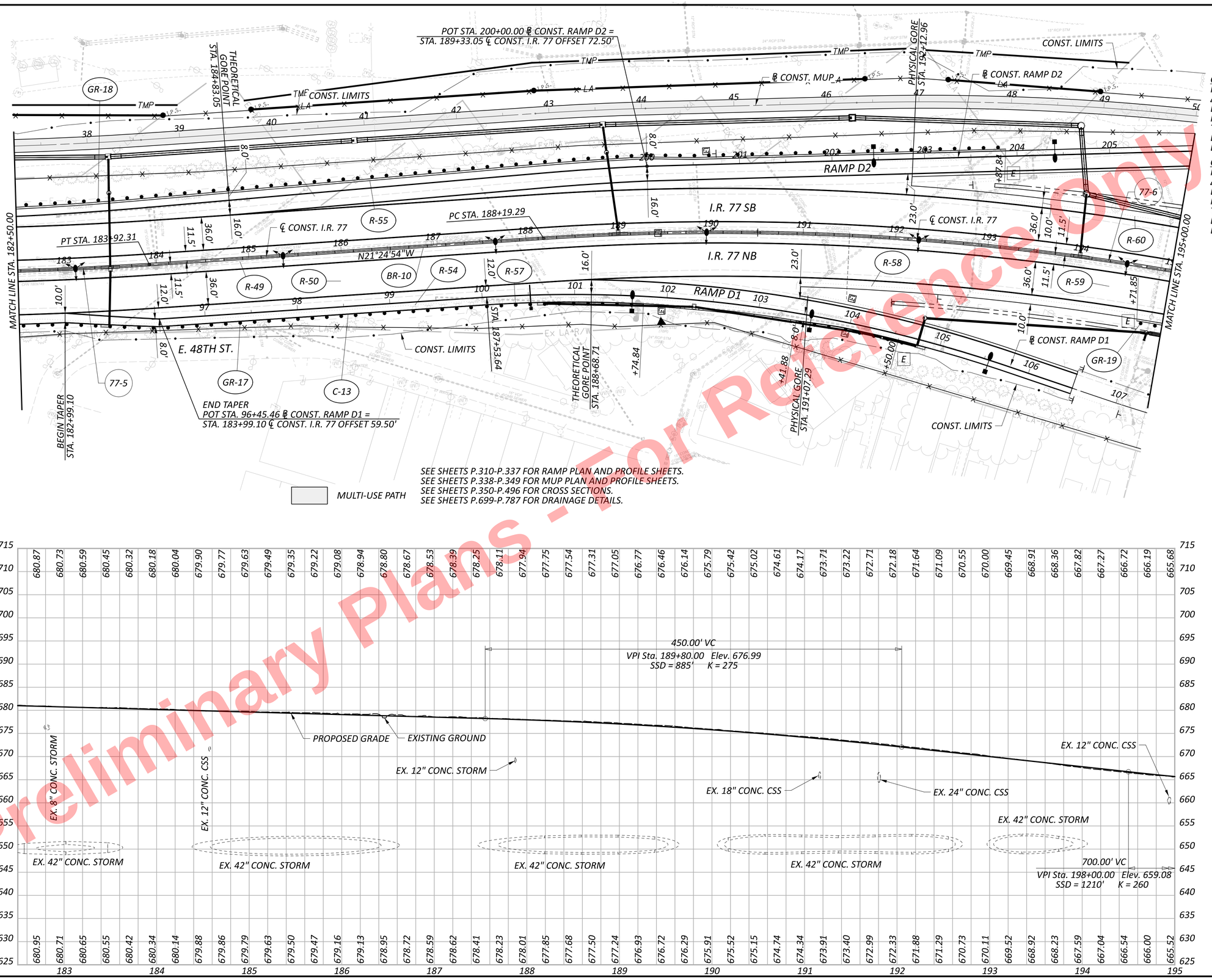


Preliminary Plans - For Reference Only

PLAN AND PROFILE - I.R. 77
STA. 170+00.00 TO STA. 182+50.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.302 TOTAL P.1269



CURVE 77-5 DATA
P.I. = STA. 179+84.25
Δ = 12°17'21" LT
Dc = 01°30'00"
R = 3,819.72'
T = 411.22'
L = 819.28'
E = 22.07'

CURVE 77-6 DATA
P.I. = STA. 192+18.47
Δ = 15°51'54" RT
Dc = 02°00'00"
R = 2,864.79'
T = 399.18'
L = 793.25'
E = 27.68'

HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - I.R. 77
STA. 182+50.00 TO STA. 195+00.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.303 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:14:10 PM USER: apendleton
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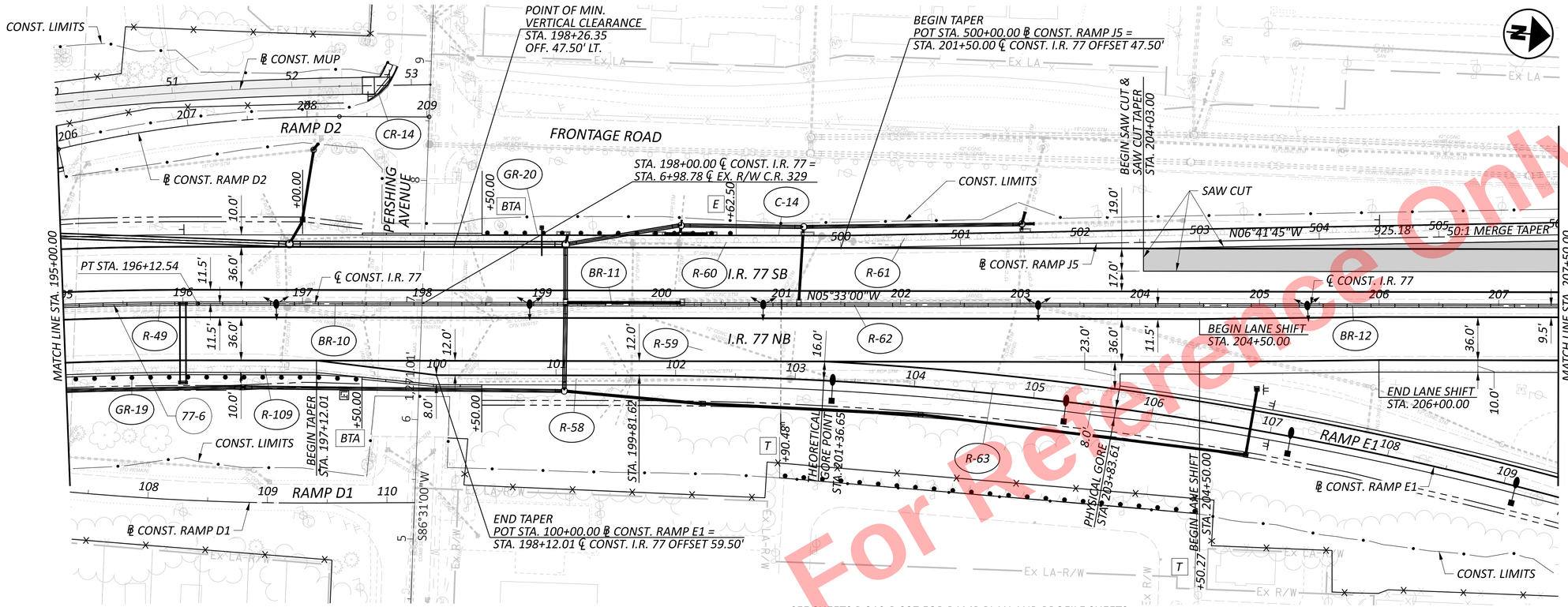
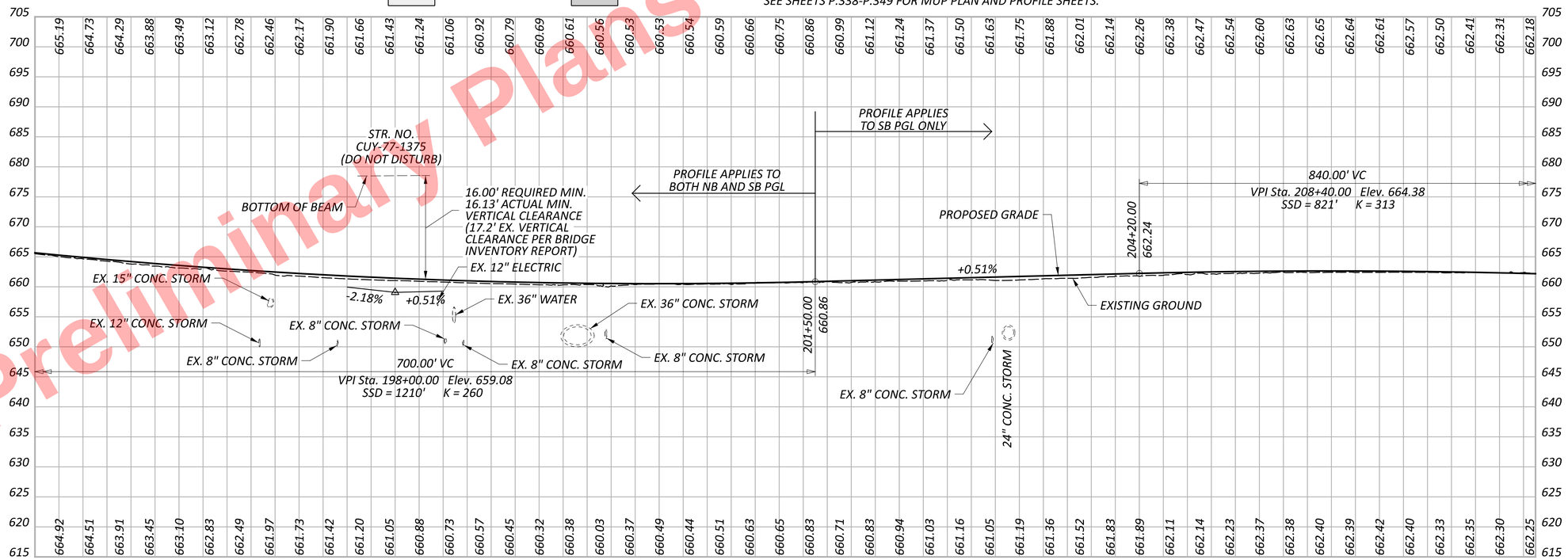
Preliminary Plans - For Reference Only



SEE SHEETS P.310-P.337 FOR RAMP PLAN AND PROFILE SHEETS.
SEE SHEETS P.350-P.496 FOR CROSS SECTIONS.
SEE SHEETS P.699-P.787 FOR DRAINAGE DETAILS.
SEE SHEETS P.338-P.349 FOR MUP PLAN AND PROFILE SHEETS.

MULTI-USE PATH I.R. 77 RESURFACING



Preliminary Plans - For Reference Only

PLAN AND PROFILE - I.R. 77
STA. 195+00.00 TO STA. 207+50.00

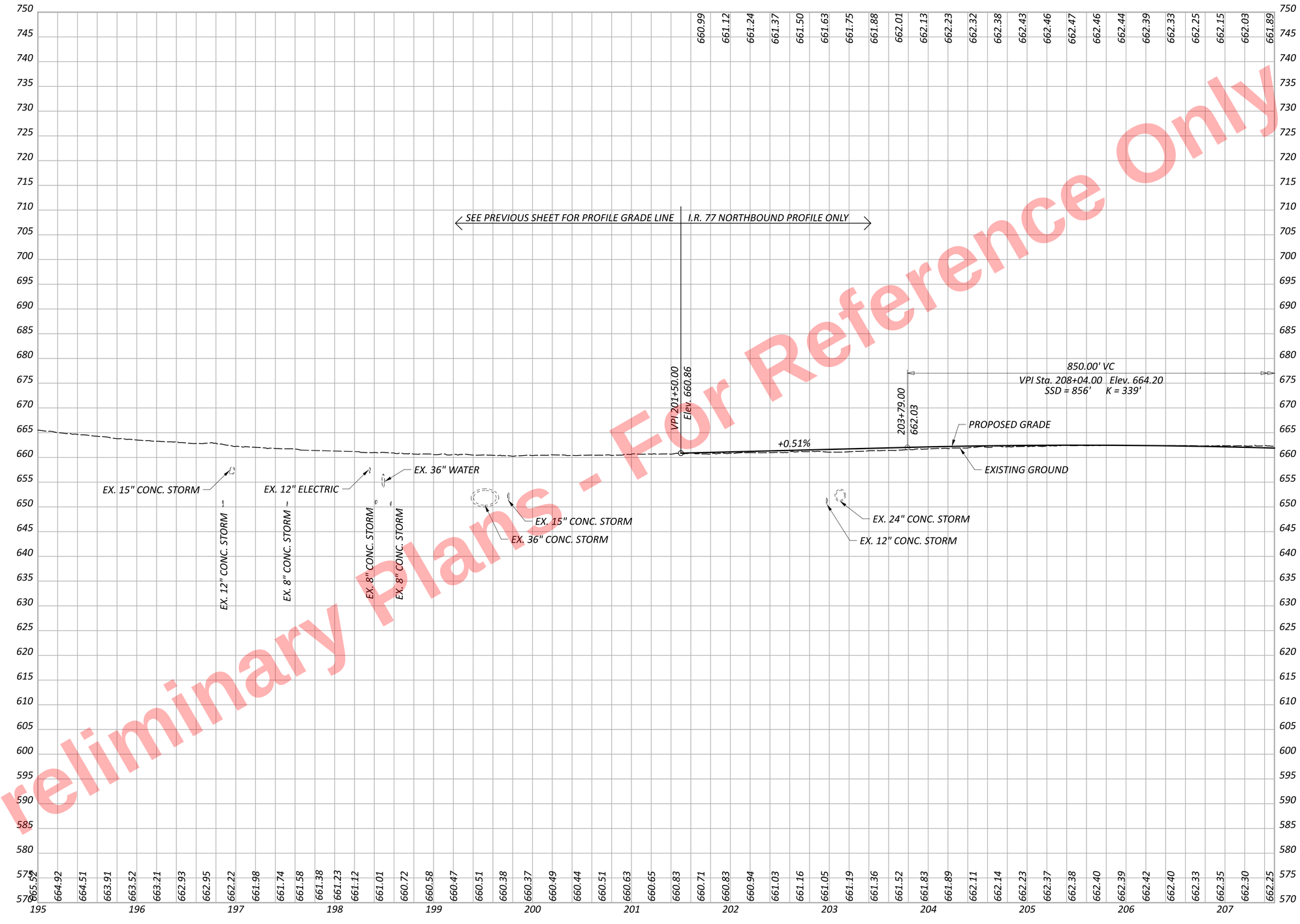
DESIGN AGENCY
HNTB

DESIGNER	EAP
REVIEWER	KKP 04/01/22
PROJECT ID	105743
SHEET	P.304
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:14:22 PM USER: apendleton
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\Engineering\Roadway\Sheets\105743_GP104.dgn

Preliminary Plans - Not For Reference Only



PROFILE - I.R. 77 NB
STA. 195+00.00 TO STA. 207+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
KKP 04/01/22

PROJECT ID
105743

SHEET P.305 TOTAL P.1269

CUY-77-11.41 - PART 1

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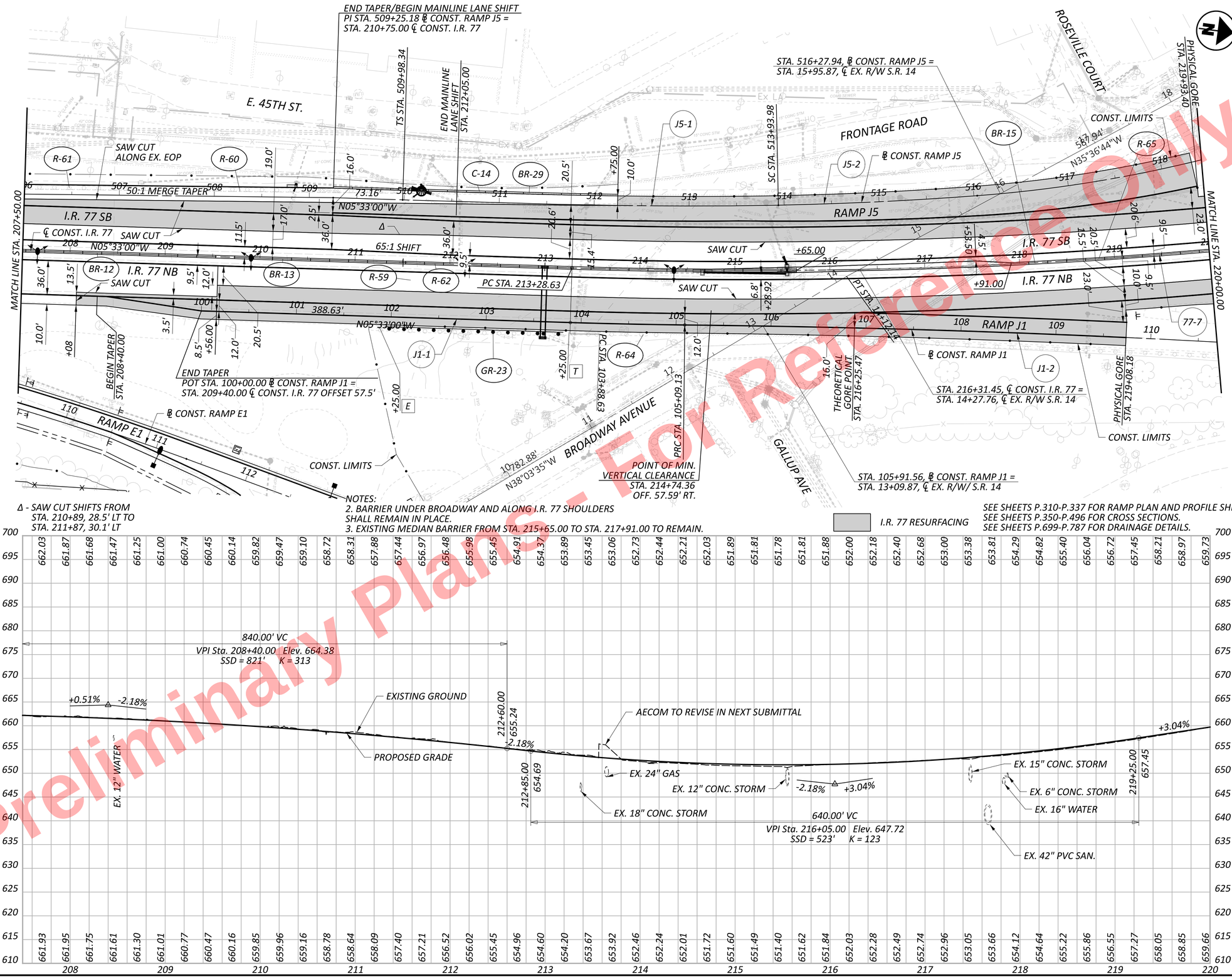

Δ - SAW CUT SHIFTS FROM STA. 210+89, 28.5' LT TO STA. 211+87, 30.1' LT

NOTES:
2. BARRIER UNDER BROADWAY AND ALONG I.R. 77 SHOULDERS SHALL REMAIN IN PLACE.
3. EXISTING MEDIAN BARRIER FROM STA. 215+65.00 TO STA. 217+91.00 TO REMAIN.

I.R. 77 RESURFACING

SEE SHEETS P.310-P.337 FOR RAMP PLAN AND PROFILE SHEETS.
SEE SHEETS P.350-P.496 FOR CROSS SECTIONS.
SEE SHEETS P.699-P.787 FOR DRAINAGE DETAILS.

SB PGL

CURVE 77-7 DATA
P.I. = STA. 218+10.24
Δ = 09°36'34" LT
Dc = 01°00'00"
R = 5,729.58'
T = 481.61'
L = 960.96'
E = 20.21'

SPIRAL J5-1 DATA
P.I. = STA. 512+62.14
Ls = 395.63'
ϑs = 02°58'02"
LT = 263.79'
ST = 131.91'
x = 395.53'
y = 6.83'
k = 197.80'
p = 1.71'
C = 395.58'
Start = Sta. 509+98.34
End = Sta. 513+93.98
C.B. = N06°32'20"W

CURVE J5-2 DATA
P.I. = STA. 514+98.77
Δ = 03°08'35" LT
Dc = 01°30'00"
R = 3,819.72'
T = 104.80'
L = 209.54'
E = 1.44'

CURVE J1-1 DATA
P.I. = STA. 104+48.88
Δ = 01°11'35" LT
Dc = 00°59'24"
R = 5,787.08'
T = 60.25'
L = 120.50'
E = 0.31'

CURVE J1-2 DATA
P.I. = STA. 108+56.26
Δ = 03°03'15" RT
Dc = 00°26'24"
R = 13,021.37'
T = 347.13'
L = 694.09'
E = 4.63'

HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - I.R. 77
STA. 207+50.00 TO STA. 220+00.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.306 TOTAL P.1269

CUY-77-11.41 - PART 1

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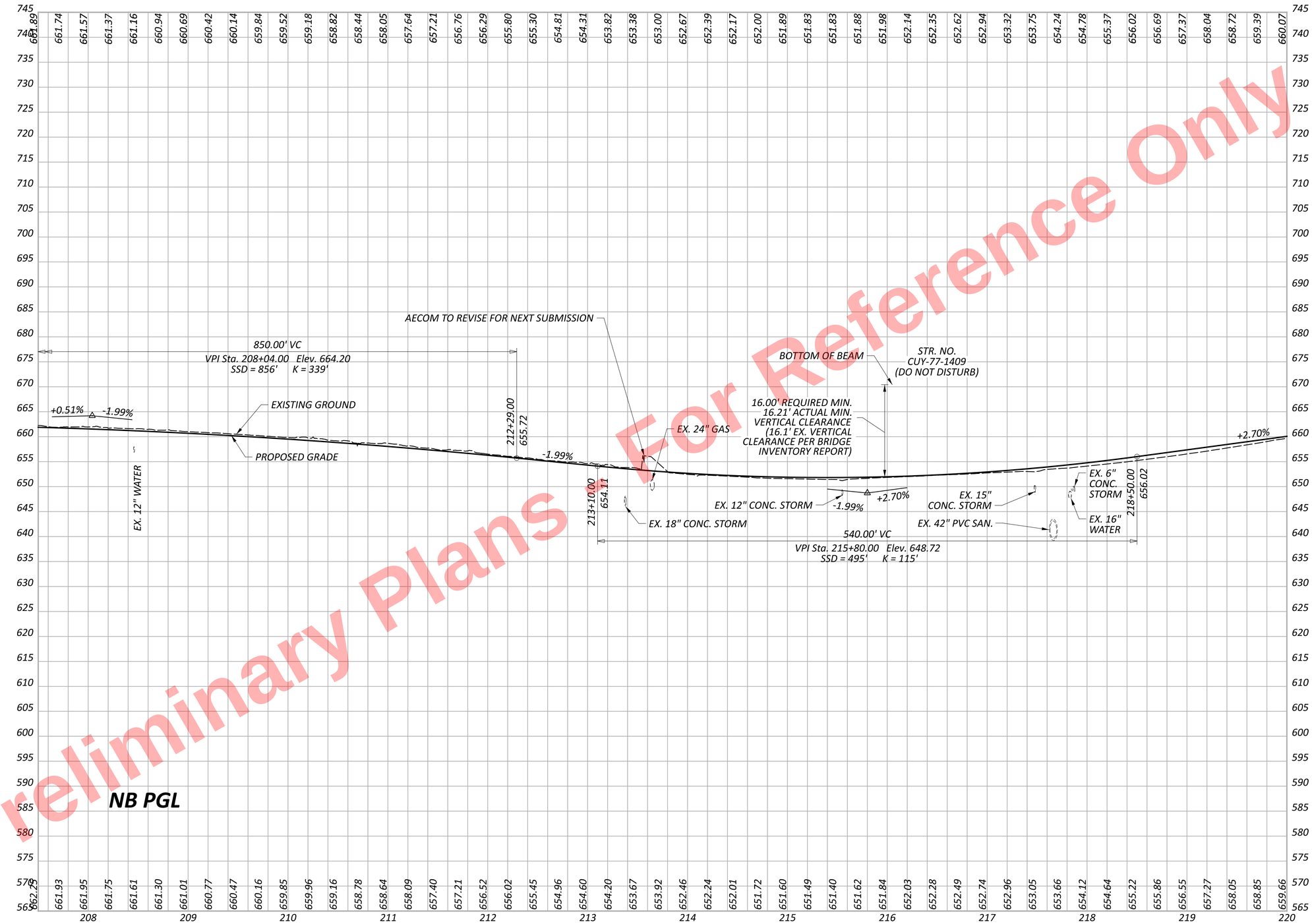
Preliminary Plans - For Reference Only



Preliminary Plans - For Reference Only

PROFILE - I.R. 77 NB
STA. 207+50.00 TO STA. 220+00.00

CUY-77-11.41 - PART 1

MODEL: PGL_CLP_I077NB - Profile 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:16:00 PM USER: apendleton
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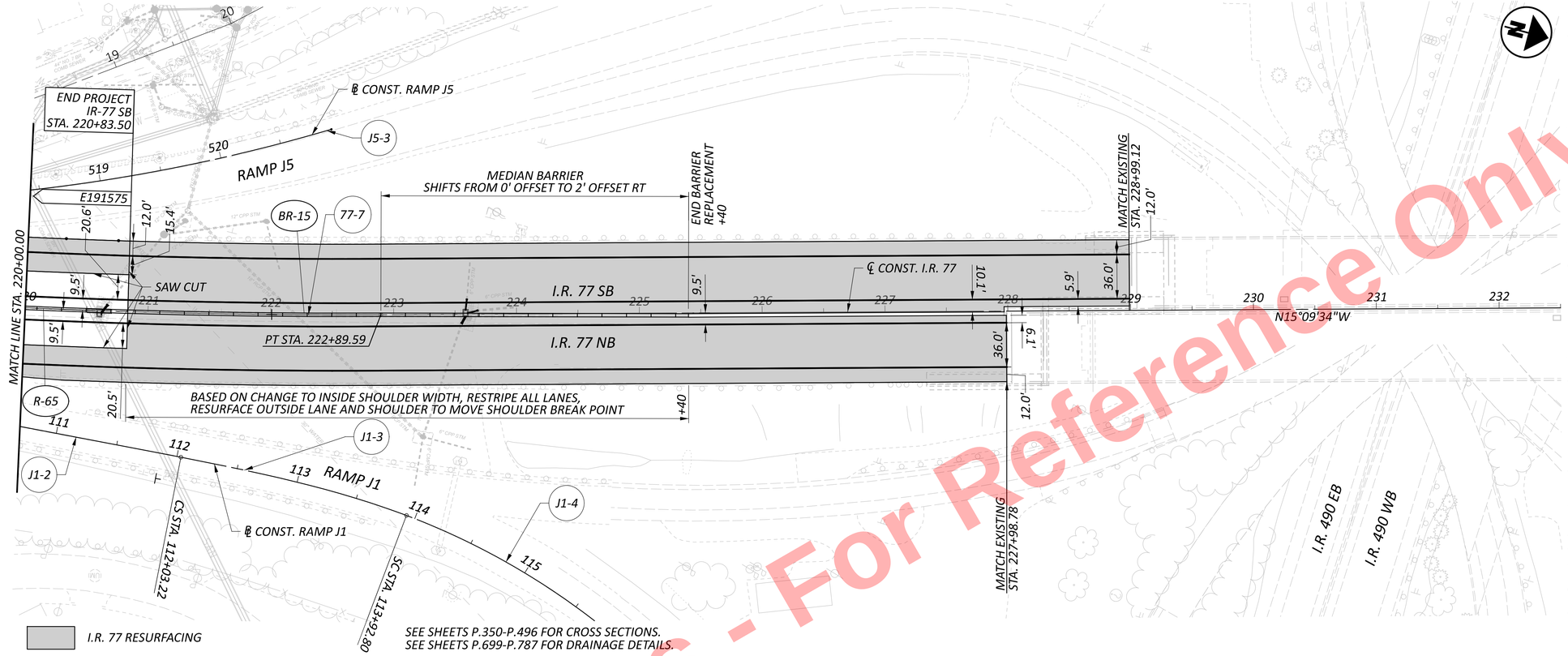
DESIGN AGENCY
HNTB

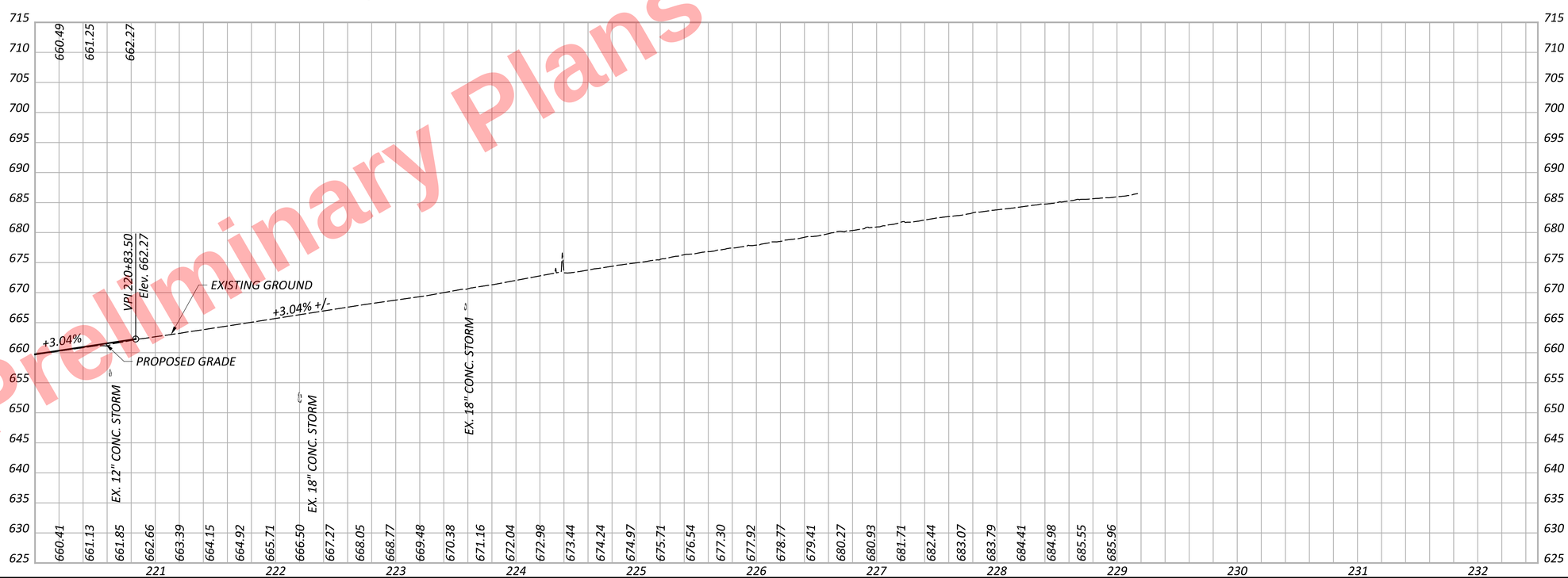
DESIGNER
EAP

REVIEWER
KKP 04/01/22

PROJECT ID
105743

SHEET P.307 TOTAL P.1269





SB PGL

CURVE 77-7 DATA
P.I. = STA. 218+10.24
Δ = 09°36'34" LT
Dc = 01°00'00"
R = 5,729.58'
T = 481.61'
L = 960.96'
E = 20.21'

CURVE J5-3 DATA
P.I. = STA. 518+50.67
Δ = 19°34'48" LT
Dc = 04°00'00"
R = 1,432.39'
T = 247.16'
L = 489.50'
E = 21.17'

CURVE J1-2 DATA
P.I. = STA. 108+56.26
Δ = 03°03'15" RT
Dc = 00°26'24"
R = 13,021.37'
T = 347.13'
L = 694.09'
E = 4.63'

CURVE J1-3 DATA
P.I. = STA. 114+84.24
Δ = 17°33'51" RT
Dc = 09°40'46"
R = 591.94'
T = 91.45'
L = 181.46'
E = 7.02'

SPIRAL J1-4 DATA
P.I. = STA. 113+67.28
Ls = 191.23'
ϑs = 09°36'01"
LT = 125.39'
ST = 66.21'
x = 190.68'
y = 11.04'
k = 91.96'
p = 2.48'
C = 191.00'
Start = Sta. 112+41.88
End = Sta. 114+33.12
C.B. = N00°22'49"W

HORIZONTAL
SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - I.R. 77
STA. 220+00.00 TO END

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
KKP 04/01/22

PROJECT ID
105743

SHEET P.308 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_i077 - Plan 13 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:16:56 PM USER: apendleton
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Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: PGL_CLP_I077NB - Profile 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:17:14 PM USER: apendleton
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660.07 660.74 661.42 662.09 662.33

VPI 220+83.50
Elev. 662.33

PROPOSED GRADE

+2.70%

+2.97%±

EXISTING GROUND

EX. 12" CONC. STORM

EX. 18" CONC. STORM

EX. 12" CONC. STORM

EX. 60" PVC SAN

NB PGL

659.66 660.41 661.13 661.85 662.66 663.39 664.15 664.92 665.71 666.50 667.27 668.05 668.77 669.48 670.38 671.16 672.04 672.98 673.44 674.24 674.97 675.71 676.54 677.30 677.92 678.77 679.41 680.27 680.93 681.71 682.44 683.07 683.79 684.41 684.98 685.55 685.96

760 755 750 745 740 735 730 725 720 715 710 705 700 695 690 685 680 675 670 665 660 655 650 645 640 635 630 625 620 615 610 605 600 595 590 585 580

220 221 222 223 224 225 226 227 228 229 230 231 232

Preliminary Plans - For Reference Only

PROFILE - I.R. 77 NB
STA. 220+00.00 TO END

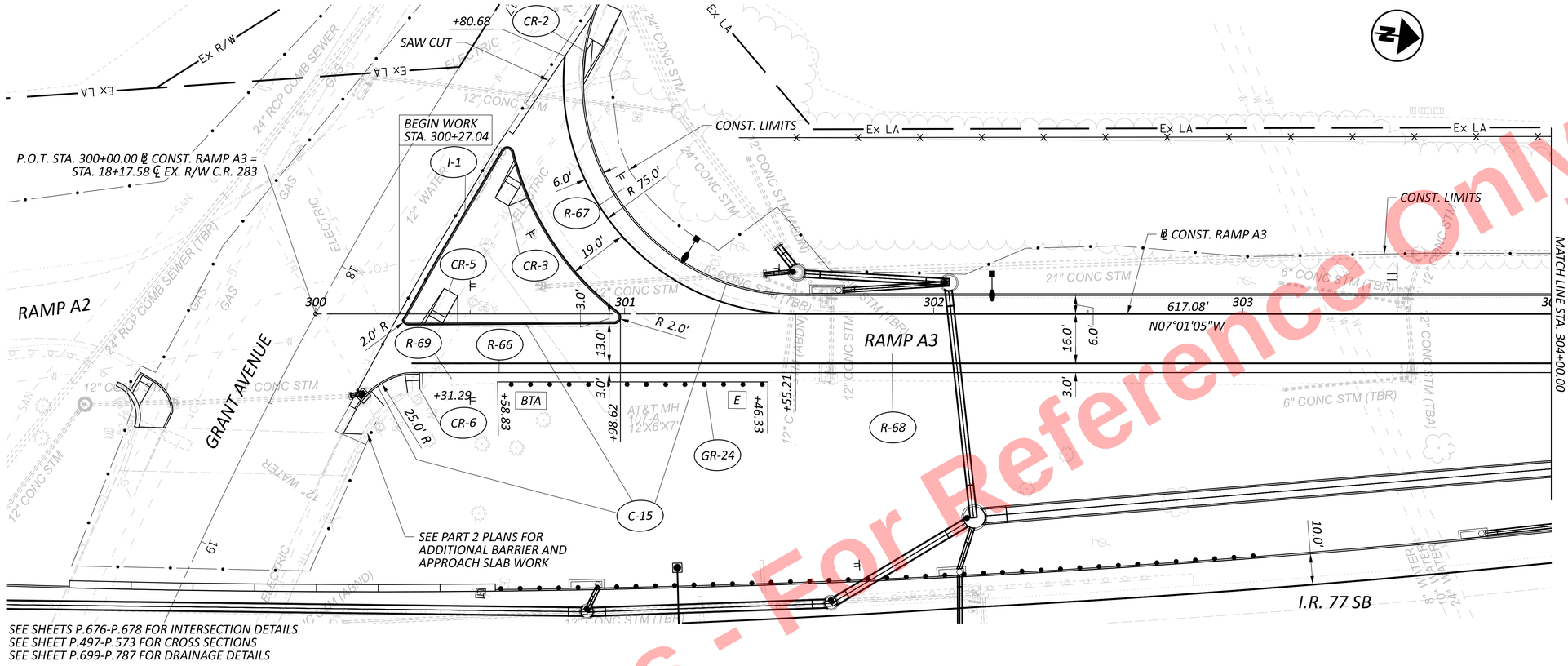
DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
KKP 04/01/22

PROJECT ID
105743

SHEET P.309 | TOTAL P.1269



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP A3
BEGIN TO STA. 304+00.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.310 TOTAL P.1269

CUY-77-11.41 - PART 1

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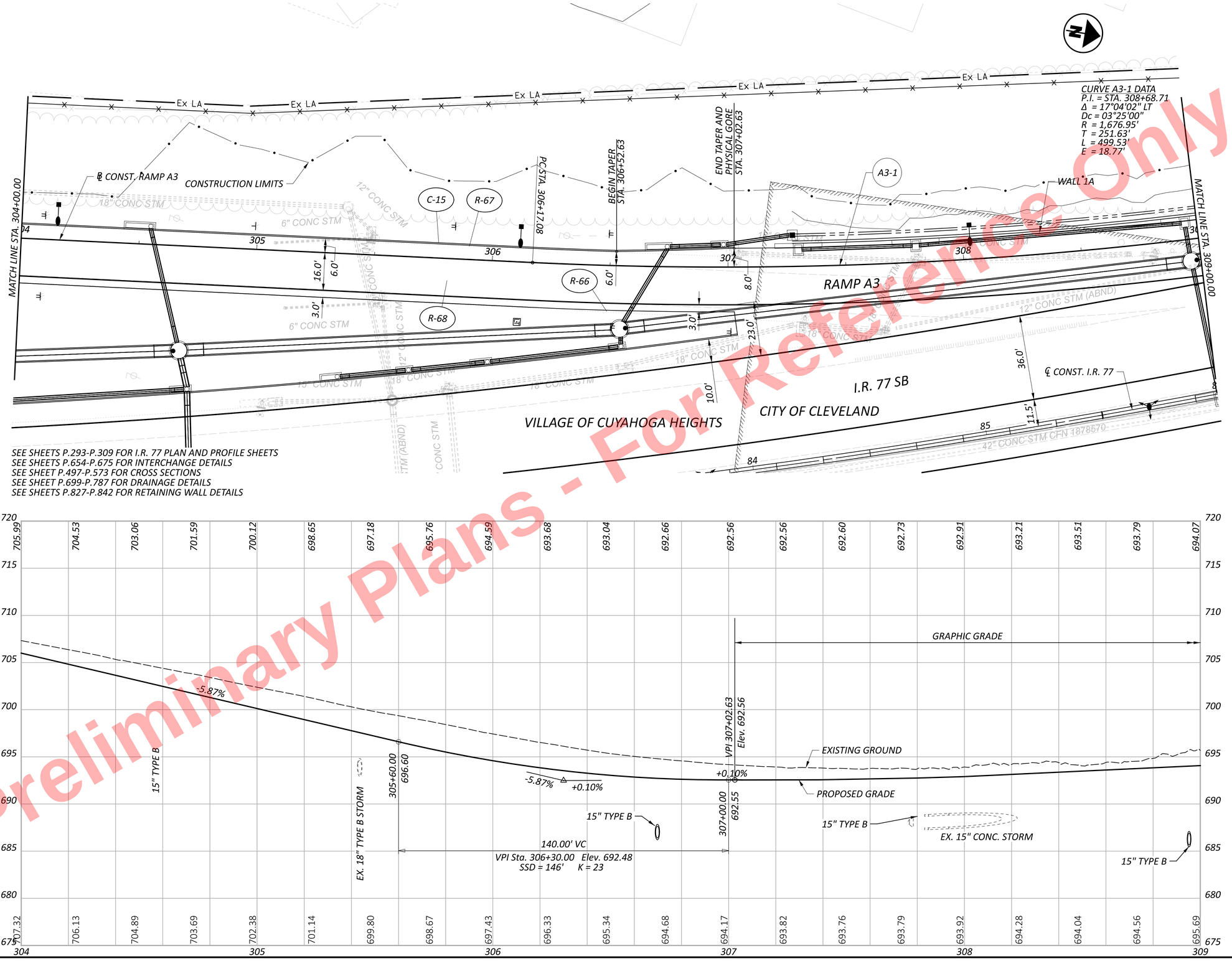

SEE SHEETS P.293-P.309 FOR I.R. 77 PLAN AND PROFILE SHEETS
SEE SHEETS P.654-P.675 FOR INTERCHANGE DETAILS
SEE SHEET P.497-P.573 FOR CROSS SECTIONS
SEE SHEET P.699-P.787 FOR DRAINAGE DETAILS
SEE SHEETS P.827-P.842 FOR RETAINING WALL DETAILS

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP A3
STA. 304+00.00 TO STA. 309+00.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.311 TOTAL P.1269

CUY-77-11.41 - PART 1

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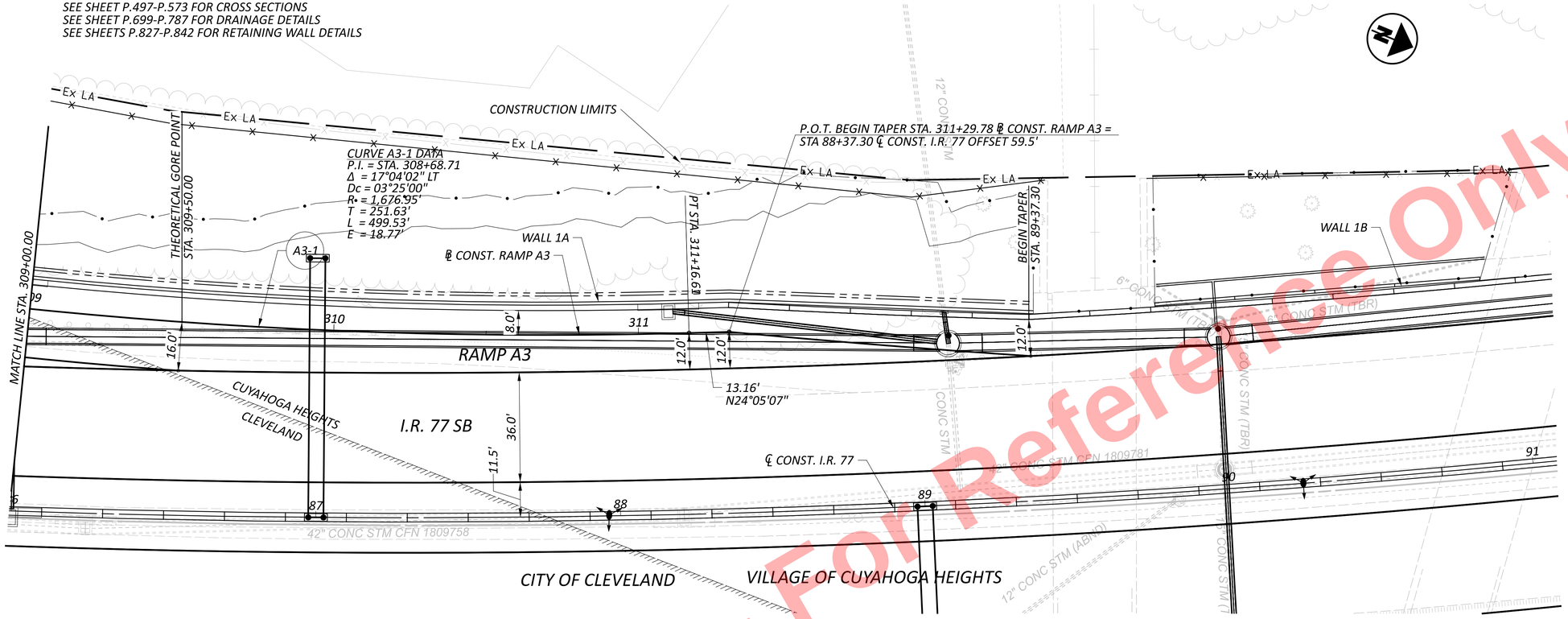
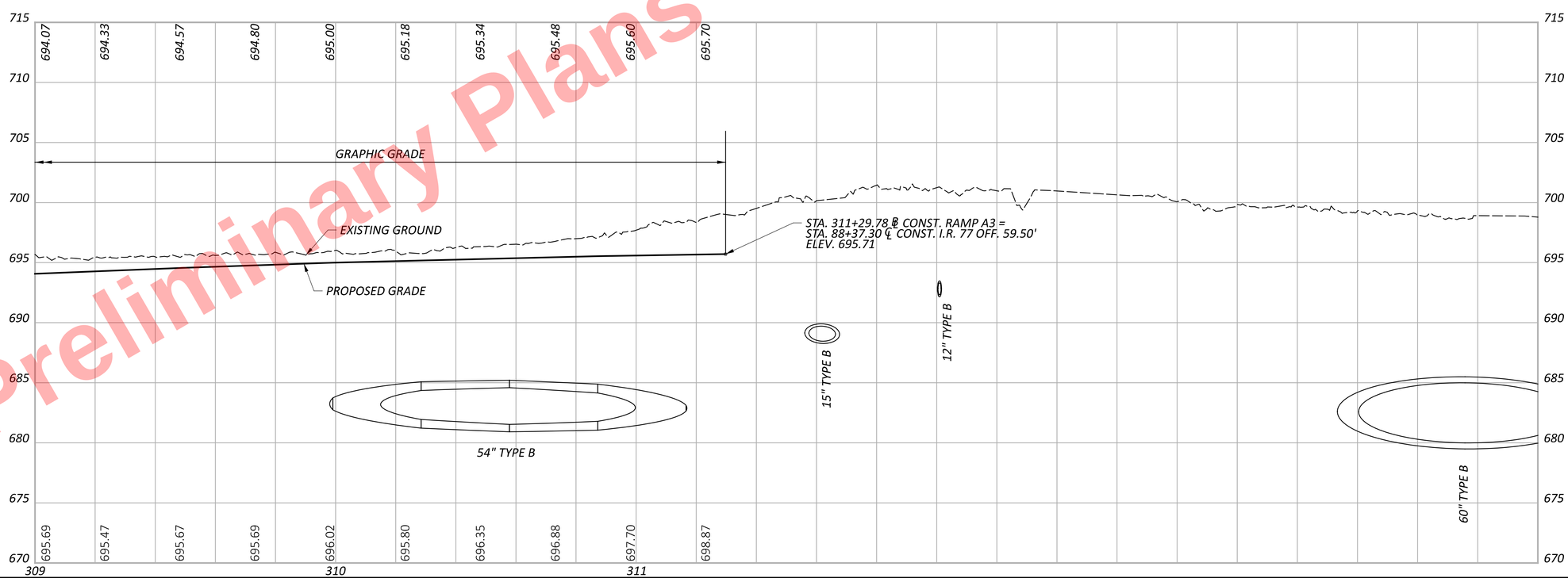
SEE SHEETS P.293-P.309 FOR I.R. 77 PLAN AND PROFILE SHEETS
SEE SHEETS P.654-P.675 FOR INTERCHANGE DETAILS
SEE SHEET P.497-P.573 FOR CROSS SECTIONS
SEE SHEET P.699-P.787 FOR DRAINAGE DETAILS
SEE SHEETS P.827-P.842 FOR RETAINING WALL DETAILS





Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP A3
STA. 309+00.00 TO END

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.312 TOTAL P.1269

CUY-77-11.41 - PART 1

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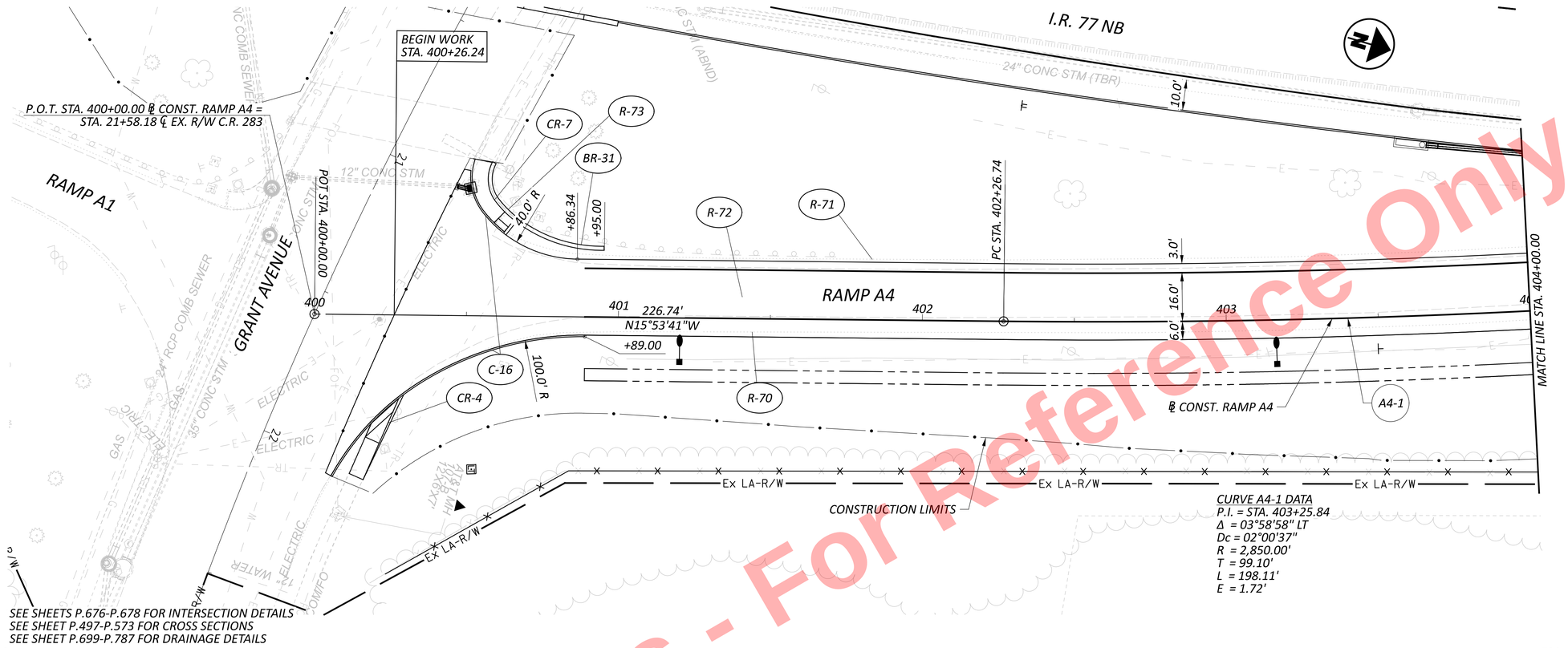

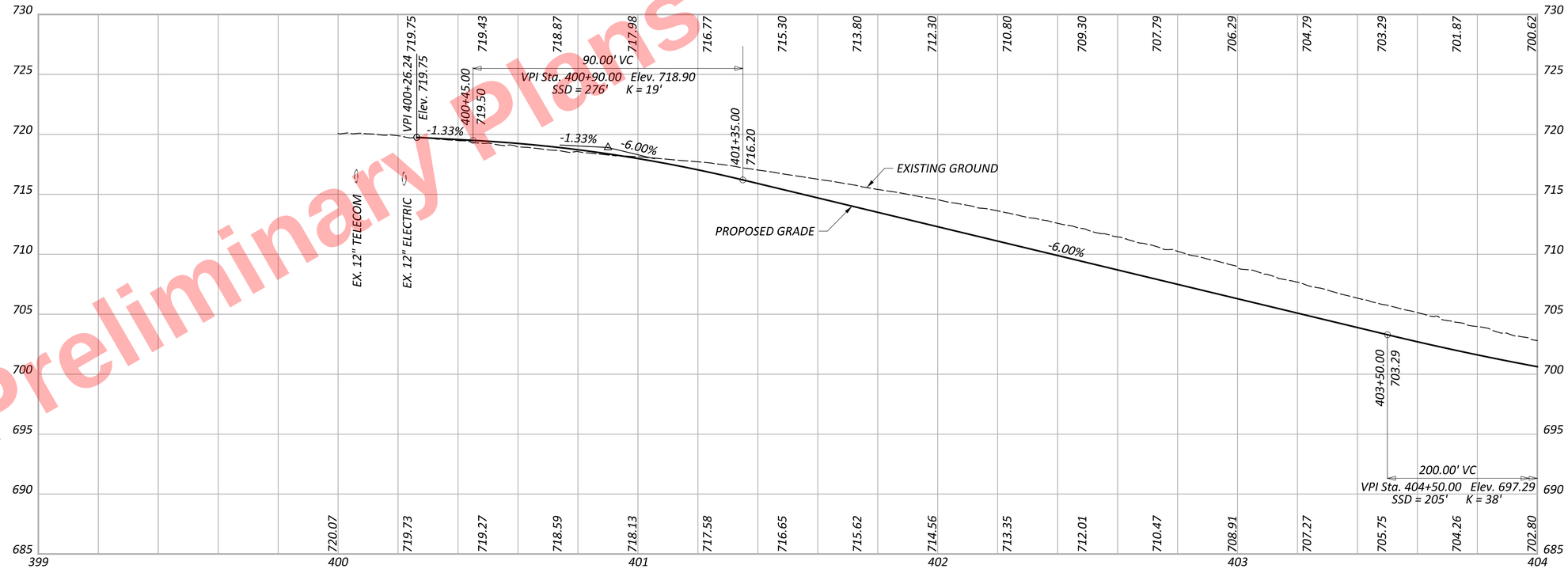

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP A4
BEGIN TO STA. 404+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
KKP 04/01/22

PROJECT ID
105743

SHEET P.313 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R283A4 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:18:19 PM USER: apendleton
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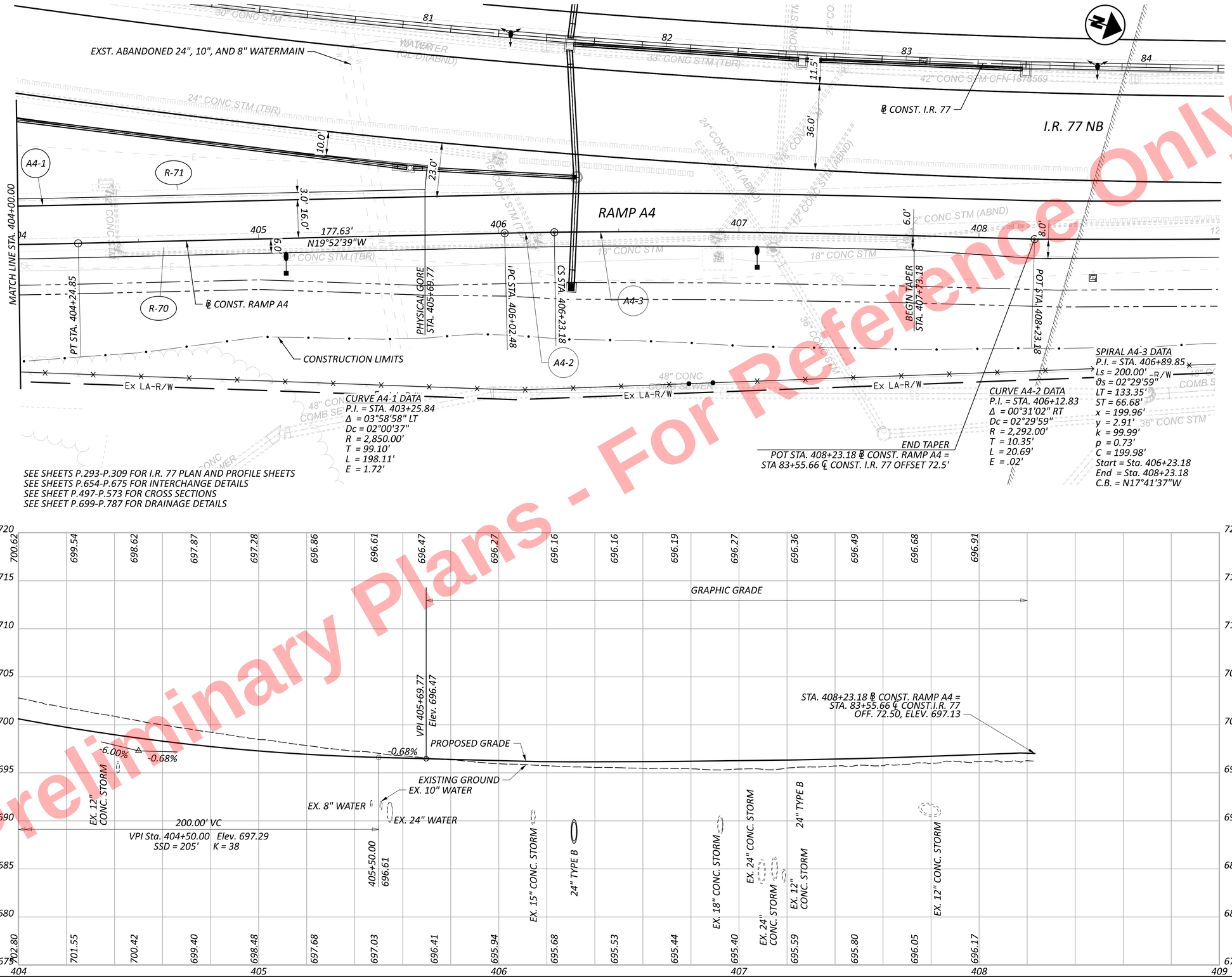

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP A4
STA. 404+00.00 TO END

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.314 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R283A4 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:18:22 PM USER: apendleton
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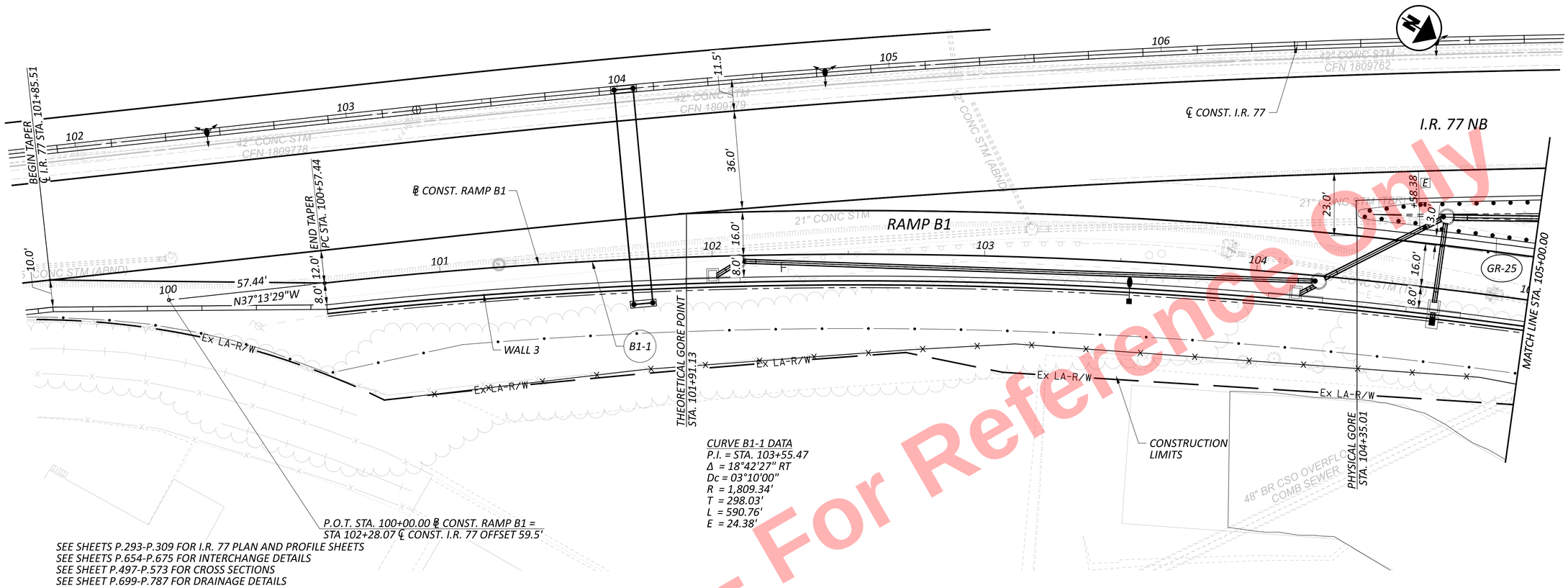
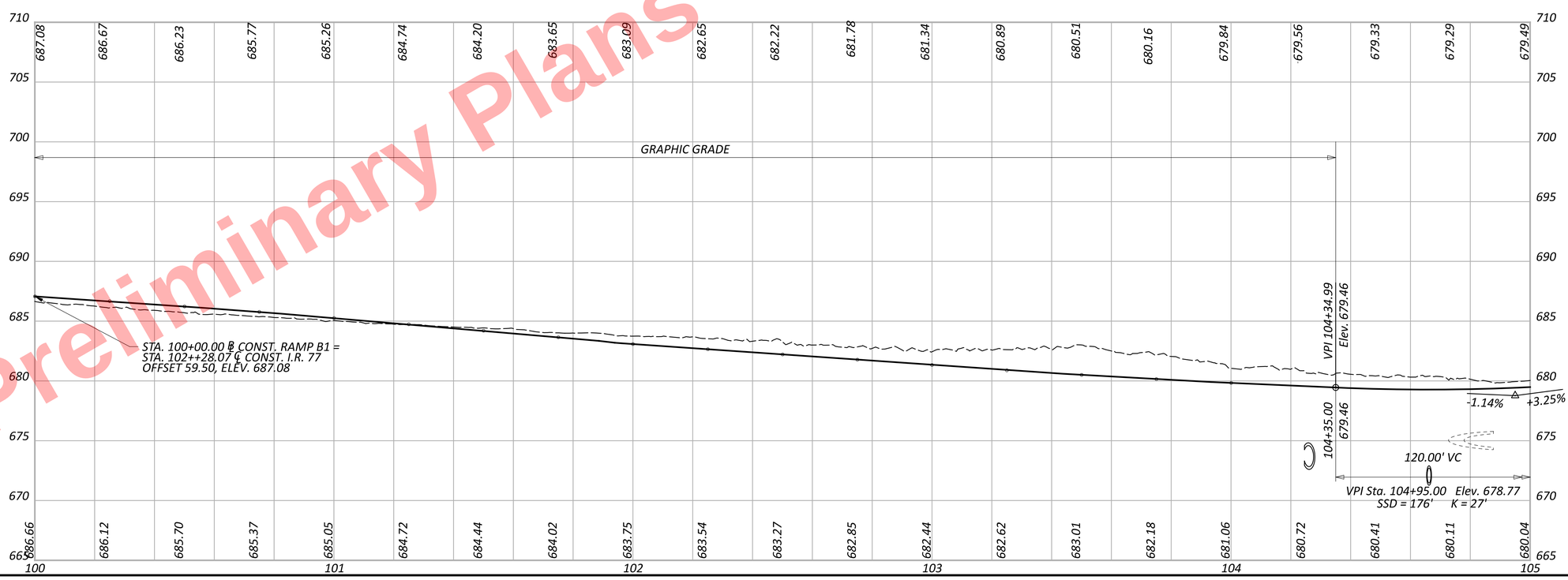
Preliminary Plans - For Reference Only



P.O.T. STA. 100+00.00 ℄ CONST. RAMP B1 =
STA 102+28.07 ℄ CONST. I.R. 77 OFFSET 59.5'

CURVE B1-1 DATA
P.I. = STA. 103+55.47
Δ = 18°42'27" RT
Dc = 03°10'00"
R = 1,809.34'
T = 298.03'
L = 590.76'
E = 24.38'

SEE SHEETS P.293-P.309 FOR I.R. 77 PLAN AND PROFILE SHEETS
SEE SHEETS P.654-P.675 FOR INTERCHANGE DETAILS
SEE SHEET P.497-P.573 FOR CROSS SECTIONS
SEE SHEET P.699-P.787 FOR DRAINAGE DETAILS
SEE SHEETS P.913-P.926 FOR RETAINING WALL DETAILS



HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP B1
BEGIN TO STA. 105+00.00

DESIGN AGENCY	HNTB
DESIGNER	EAP
REVIEWER	KKP 04/01/22
PROJECT ID	105743
SHEET	P.315
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R043B1 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:18:38 PM USER: apendleton
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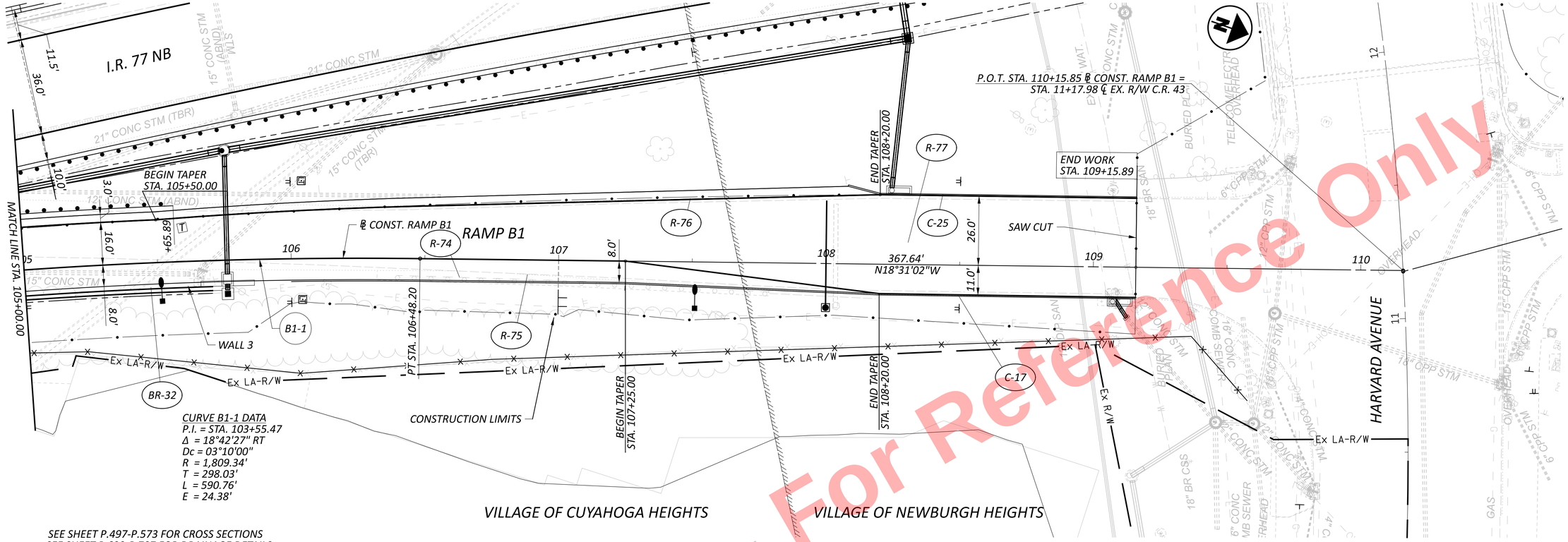
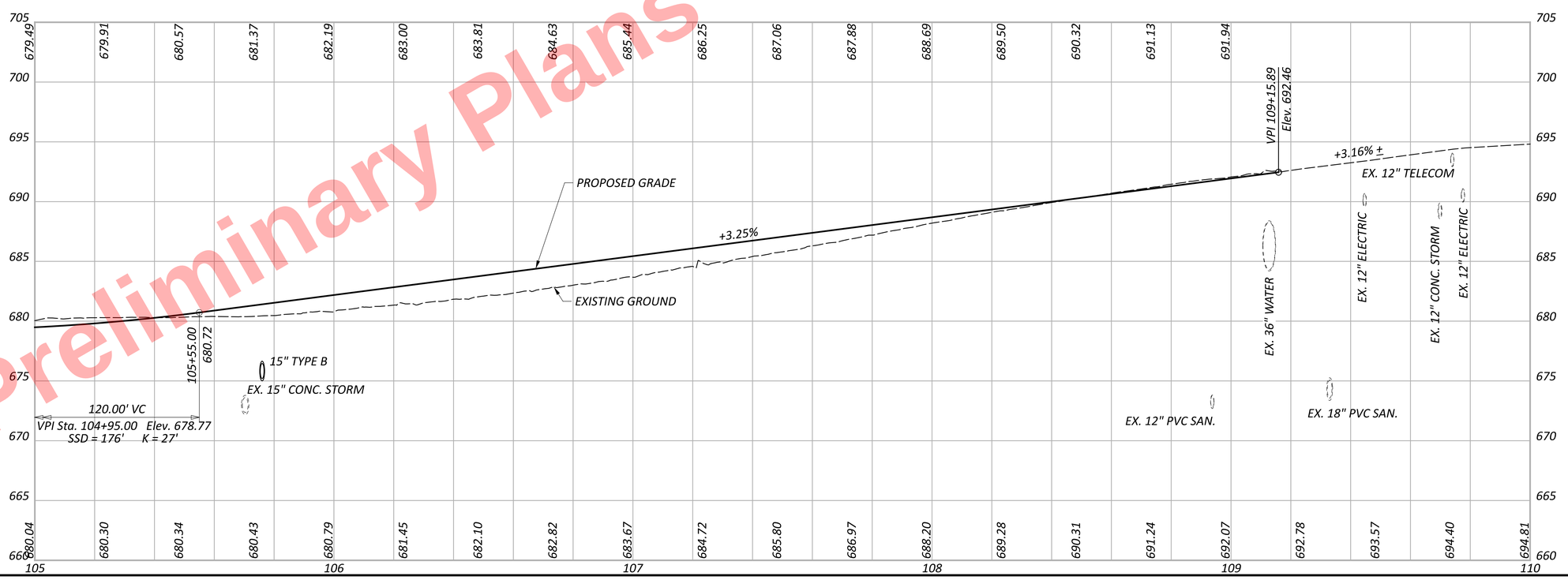




Preliminary Plans - For Reference Only

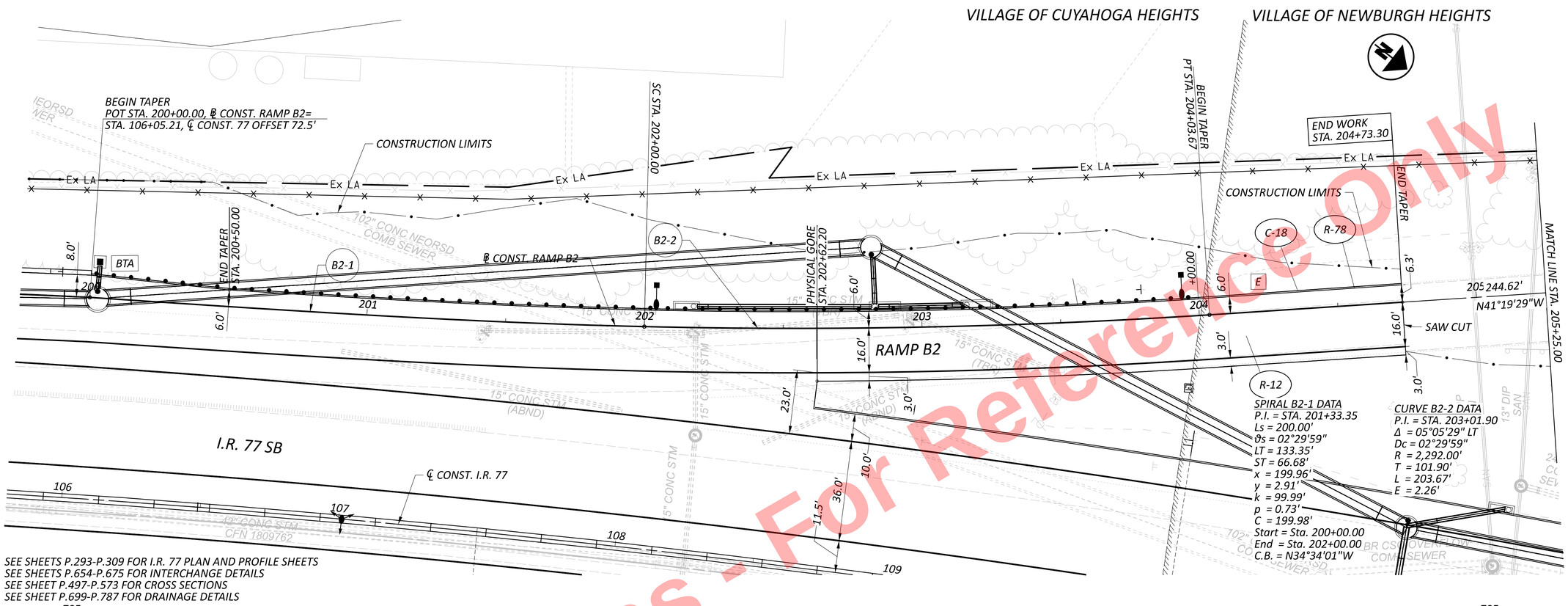
PLAN AND PROFILE - RAMP B1
STA. 105+00.00 TO END

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.316 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R043B1 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:18:42 PM USER: apendleton
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GP301.dgn



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP B2
BEGIN TO END

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
KKP 04/01/22

PROJECT ID
105743

SHEET P.317 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R043B2 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:19:03 PM USER: apendleton
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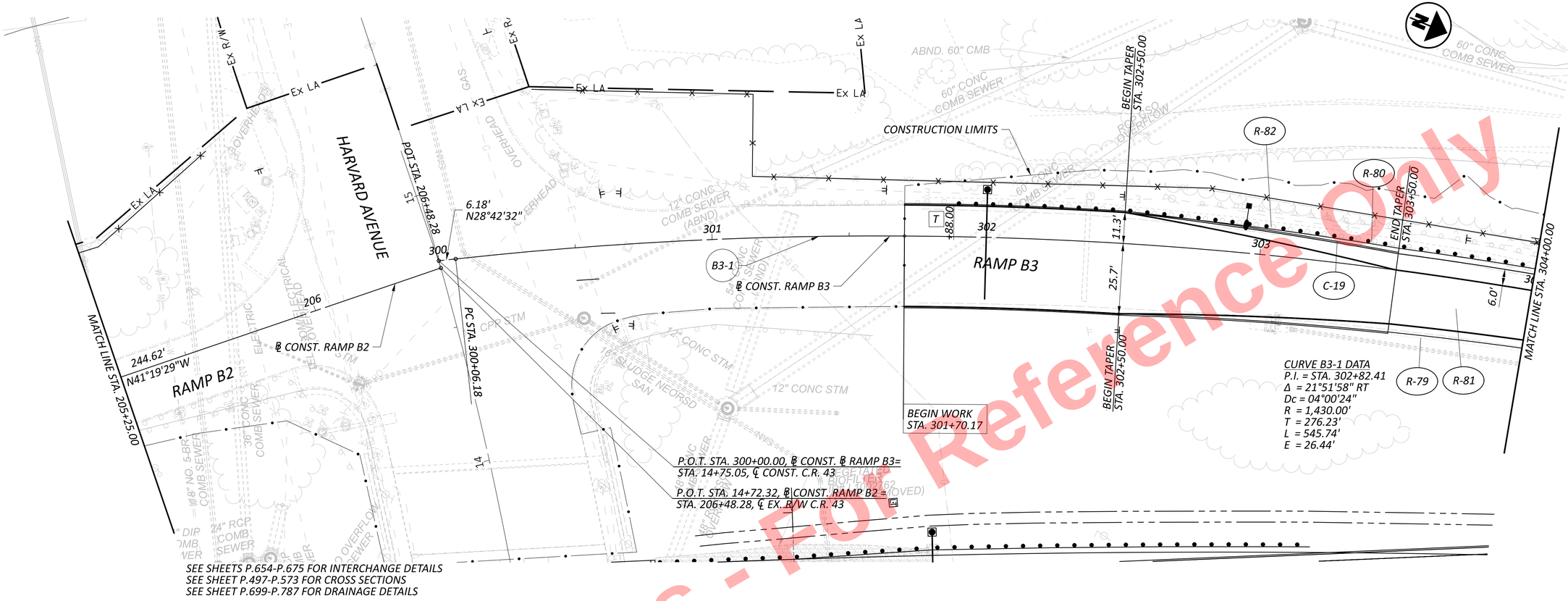

Preliminary Plans - Not For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP B3
BEGIN TO STA. 304+00.00

CUY-77-11.41 - PART 1

MODEL: BLP_R043B3 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:19:56 PM USER: apendleton
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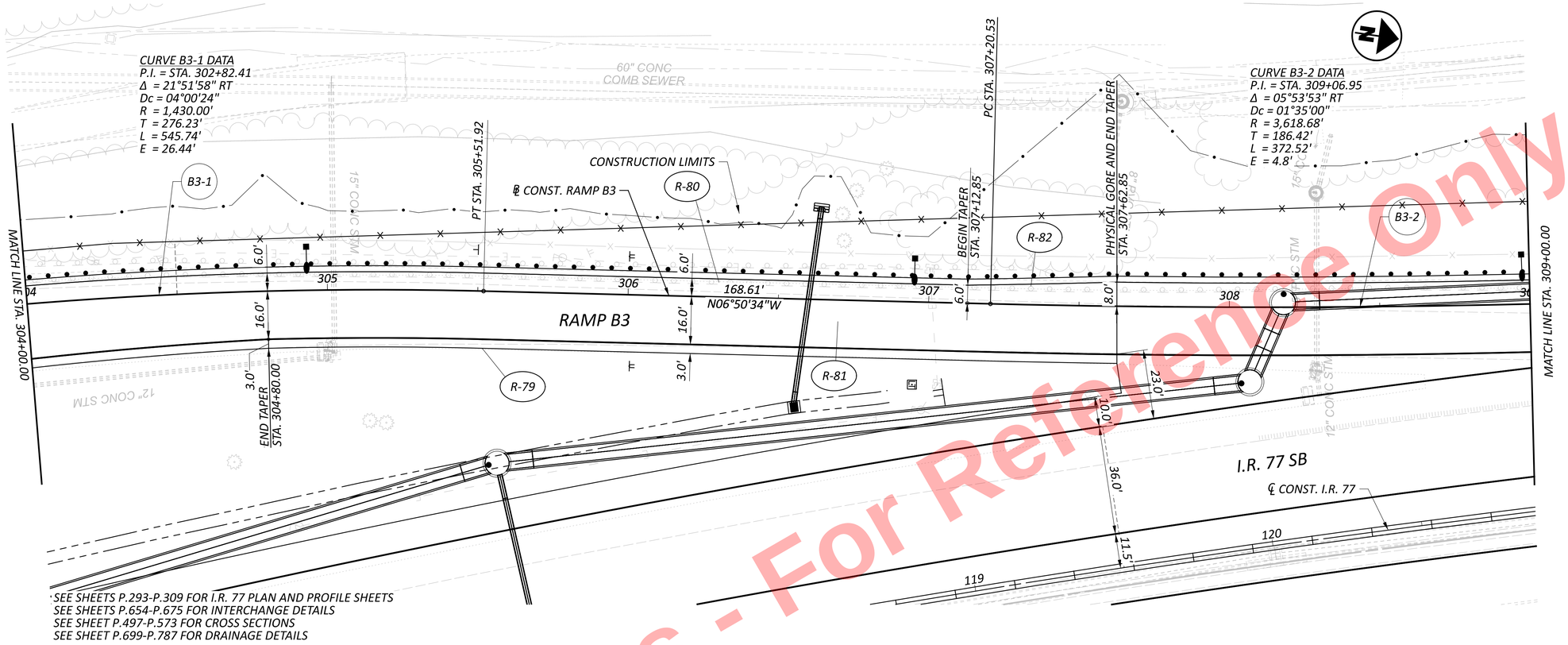
DESIGN AGENCY
HNTB

DESIGNER	EAP
REVIEWER	KKP 04/01/22
PROJECT ID	105743
SHEET	P.318
TOTAL	P.1269



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP B3
STA. 304+00.00 TO STA. 309+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
KKP 04/01/22

PROJECT ID
105743

SHEET P.319 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R043B3 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:20:13 PM USER: apendleton
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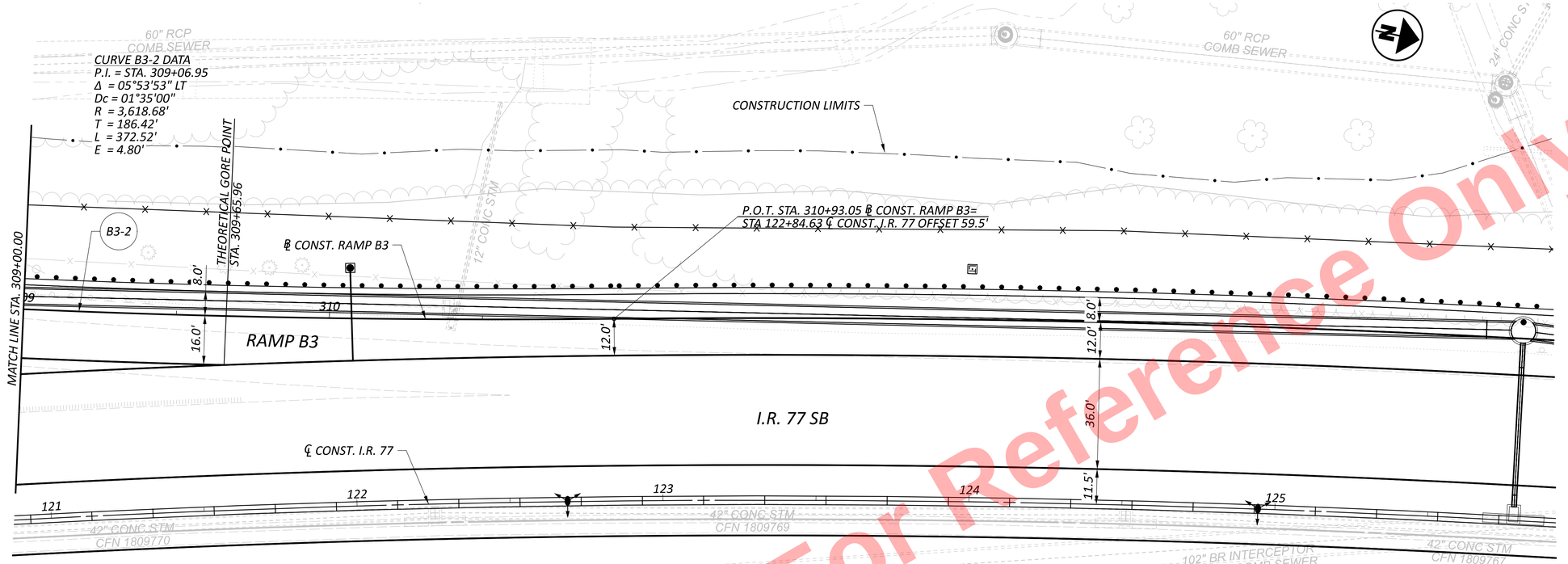
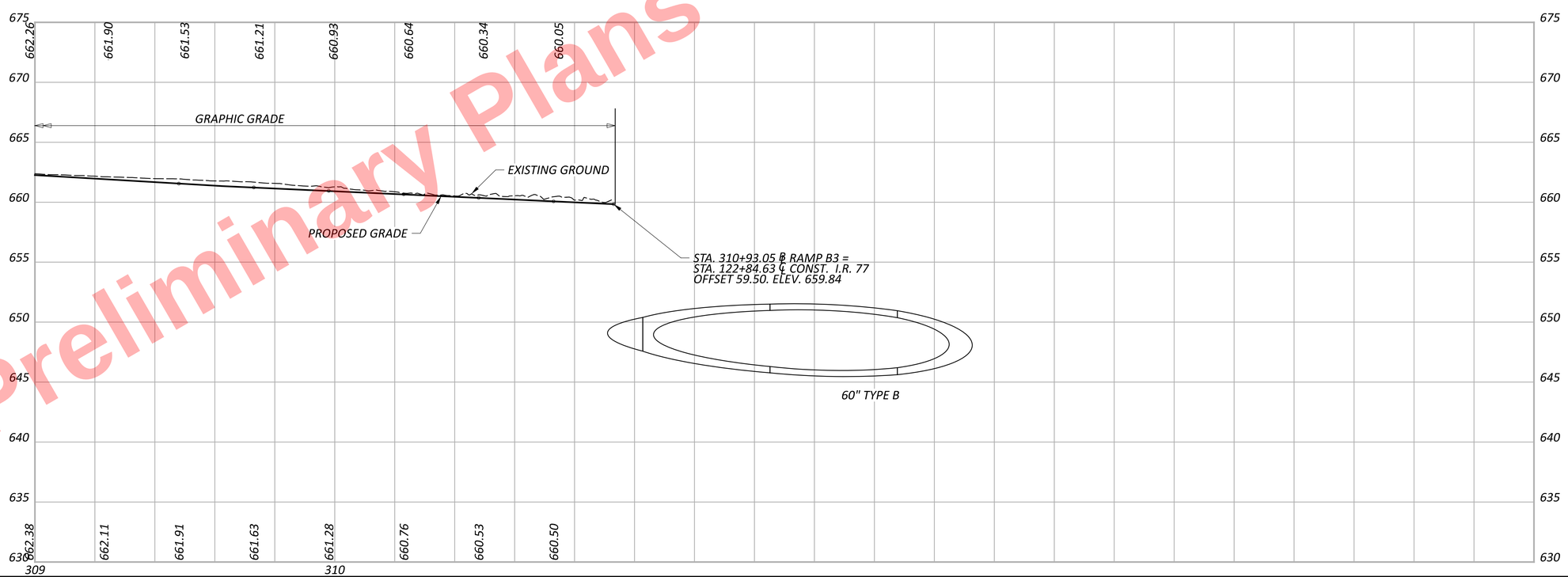


SEE SHEETS P.293-P.309 FOR I.R. 77 PLAN AND PROFILE SHEETS
SEE SHEETS P.654-P.675 FOR INTERCHANGE DETAILS
SEE SHEET P.497-P.573 FOR CROSS SECTIONS
SEE SHEET P.699-P.787 FOR DRAINAGE DETAILS



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

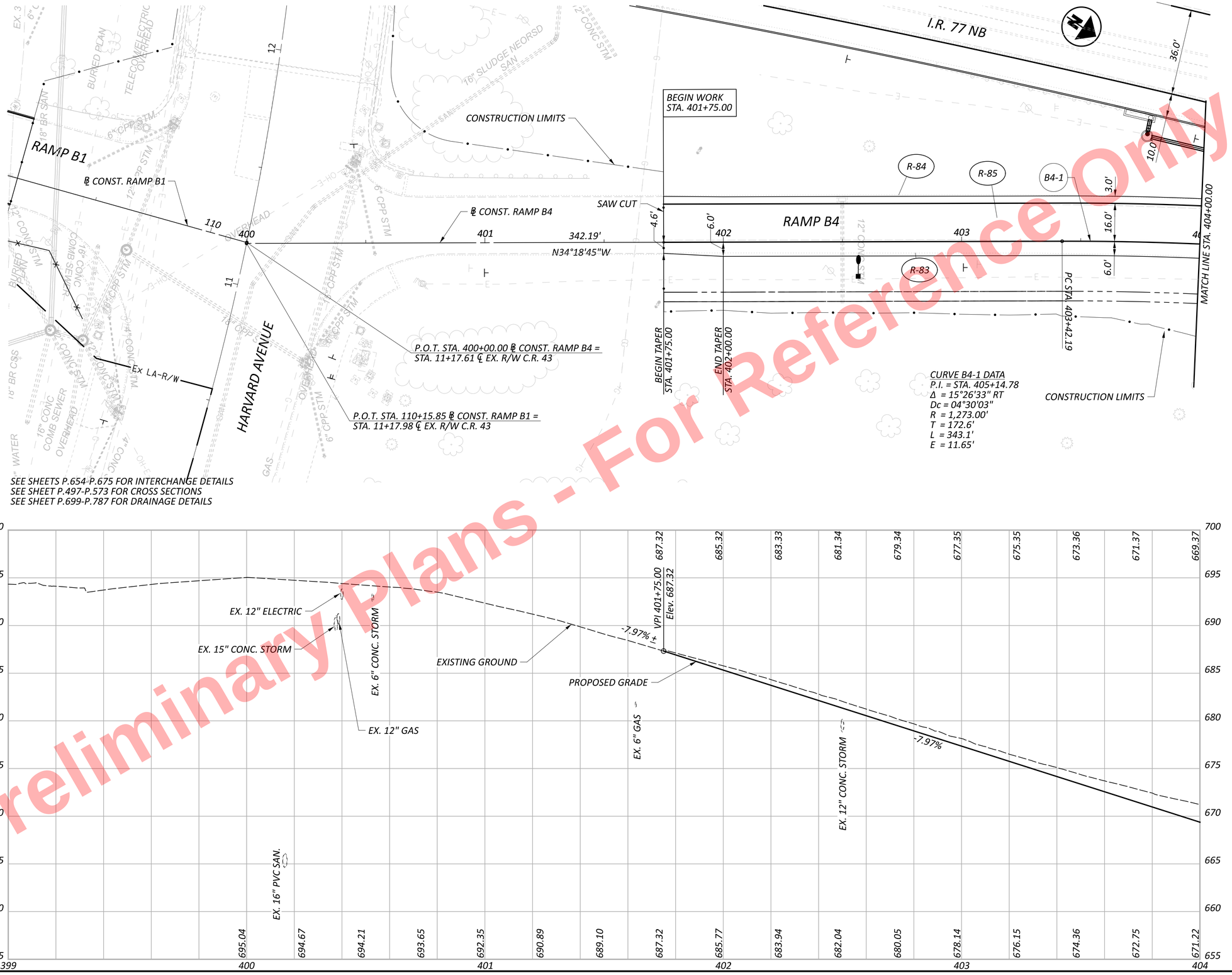
PLAN AND PROFILE - RAMP B3
STA. 309+00.00 TO END

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.320 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R043B3 - Plan 3 |Sheet| PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:20:16 PM USER: apendleton
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GP303.dgn



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP B4
BEGIN TO STA. 404+00.00

CUY-77-11.41 - PART 1

MODEL: BLP_R043B4 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:20:48 PM USER: apendleton
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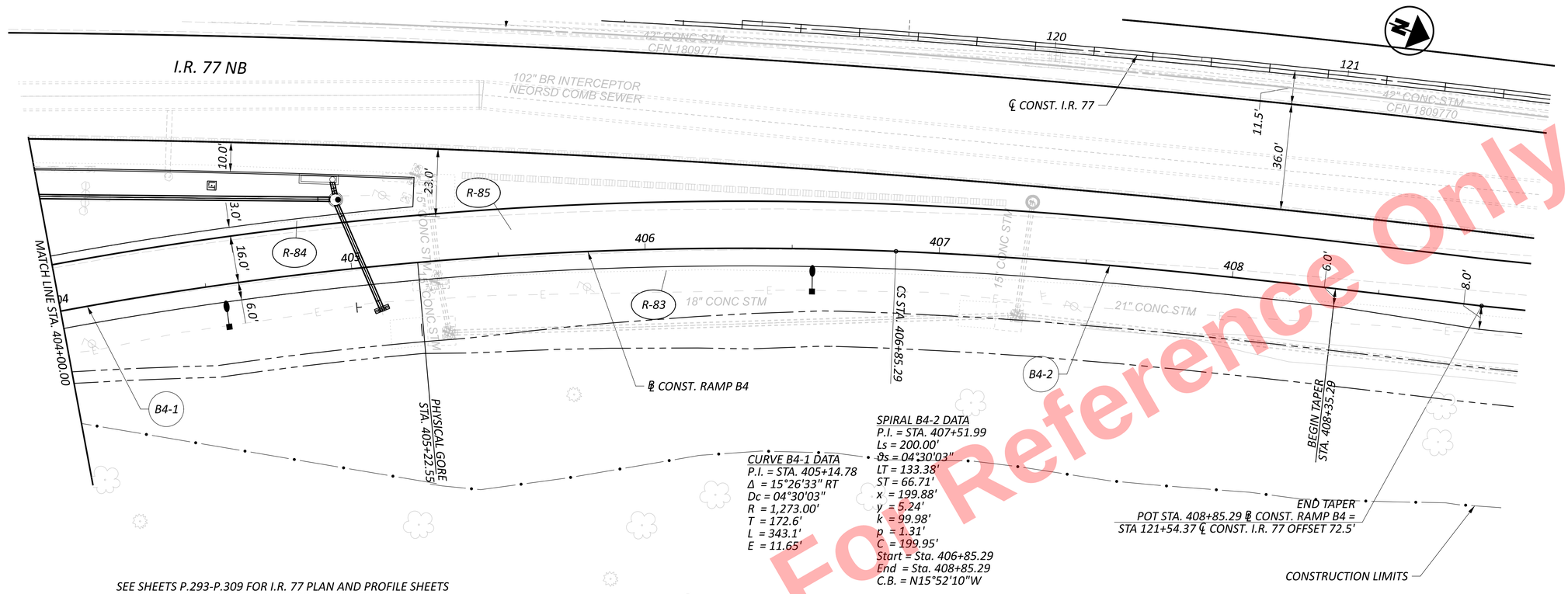
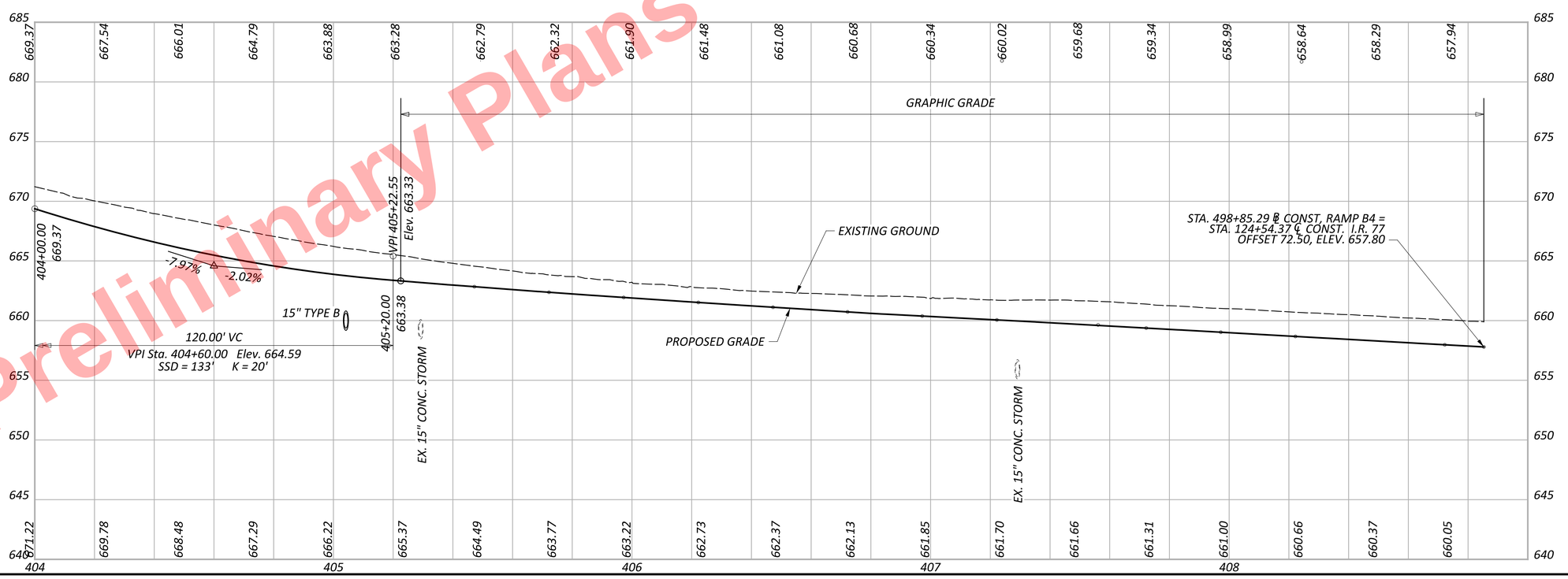
DESIGN AGENCY
HNTB

DESIGNER	EAP
REVIEWER	KKP 04/01/22
PROJECT ID	105743
SHEET	P.321
TOTAL	P.1269



SEE SHEETS P.293-P.309 FOR I.R. 77 PLAN AND PROFILE SHEETS
SEE SHEETS P.654-P.675 FOR INTERCHANGE DETAILS
SEE SHEET P.497-P.573 FOR CROSS SECTIONS
SEE SHEET P.699-P.787 FOR DRAINAGE DETAILS



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP B4
STA. 404+00.00 TO END

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.322 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R043B4 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:21:07 PM USER: apendleton
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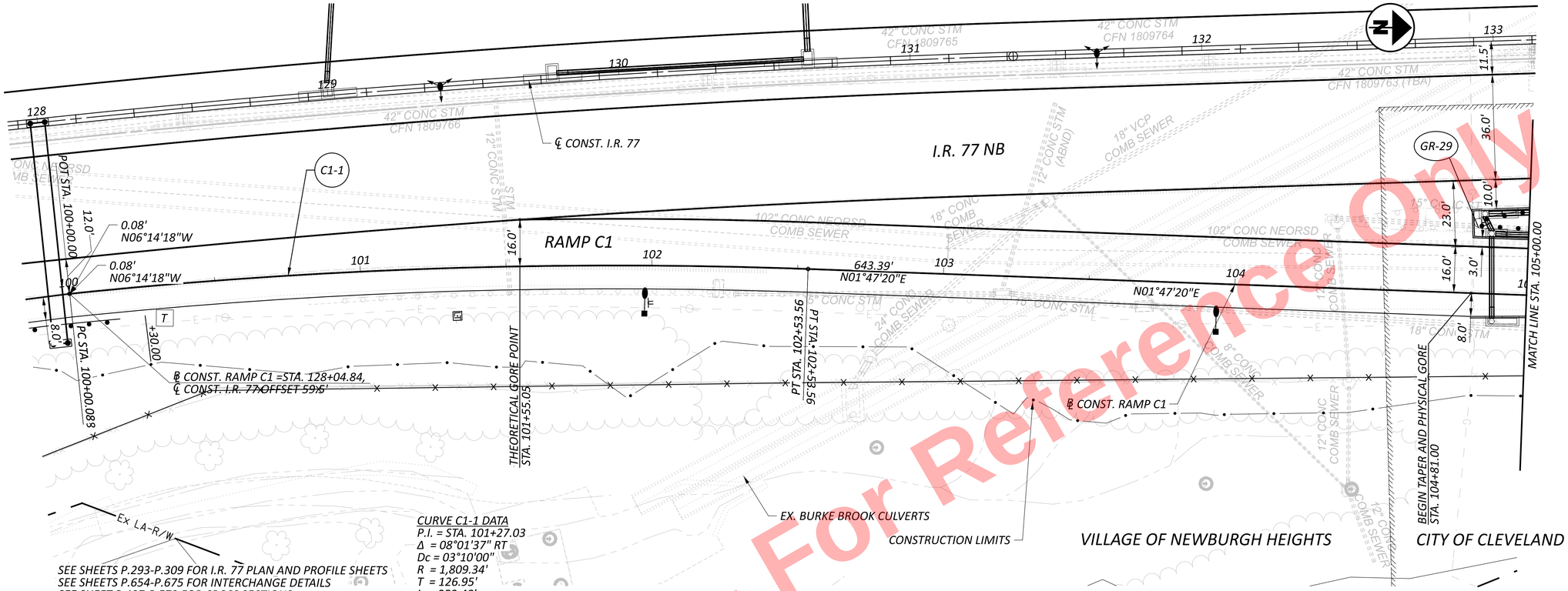
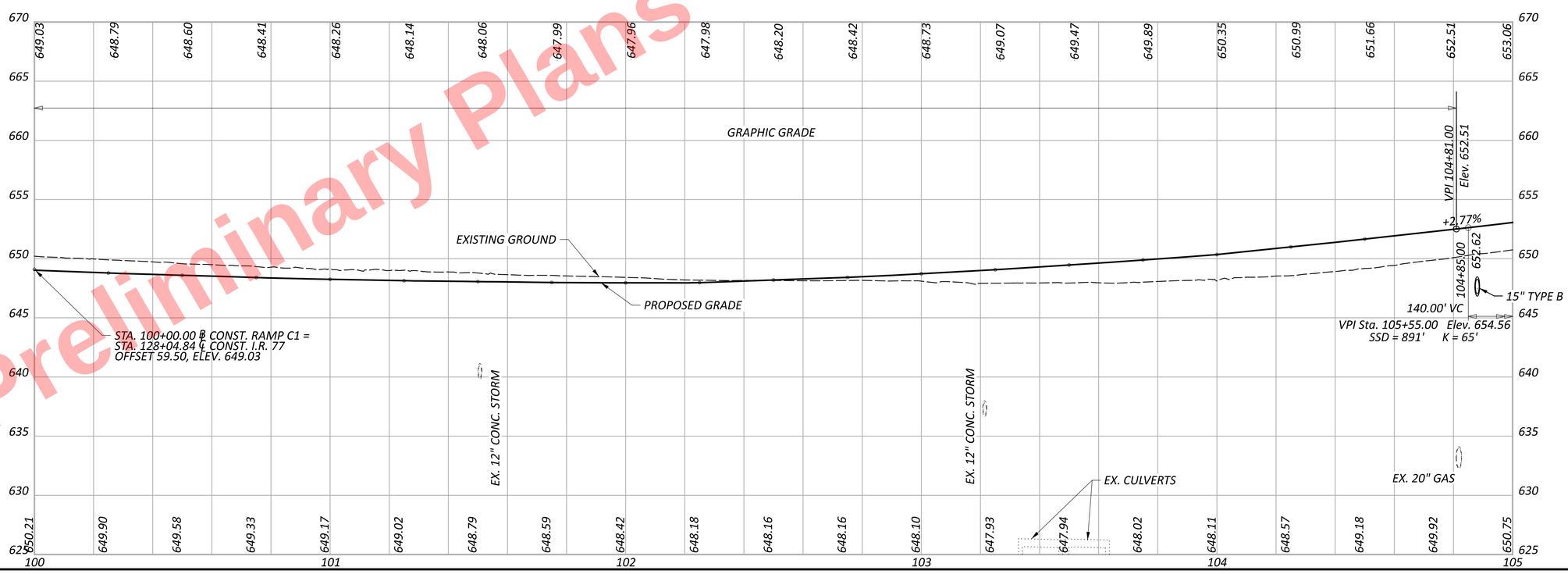
Preliminary Plans - For Reference Only



SEE SHEETS P.293-P.309 FOR I.R. 77 PLAN AND PROFILE SHEETS
SEE SHEETS P.654-P.675 FOR INTERCHANGE DETAILS
SEE SHEET P.497-P.573 FOR CROSS SECTIONS
SEE SHEET P.699-P.787 FOR DRAINAGE DETAILS

CURVE C1-1 DATA
P.I. = STA. 101+27.03
Δ = 08°01'37" RT
Dc = 03°10'00"
R = 1,809.34'
T = 126.95'
L = 253.48'
E = 4.45'



HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP C1
BEGIN TO STA. 105+00.00

DESIGN AGENCY
HNTB

DESIGNER	EAP
REVIEWER	KKP 04/01/22
PROJECT ID	105743
SHEET	P.323
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R743C1 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:21:33 PM USER: apendleton
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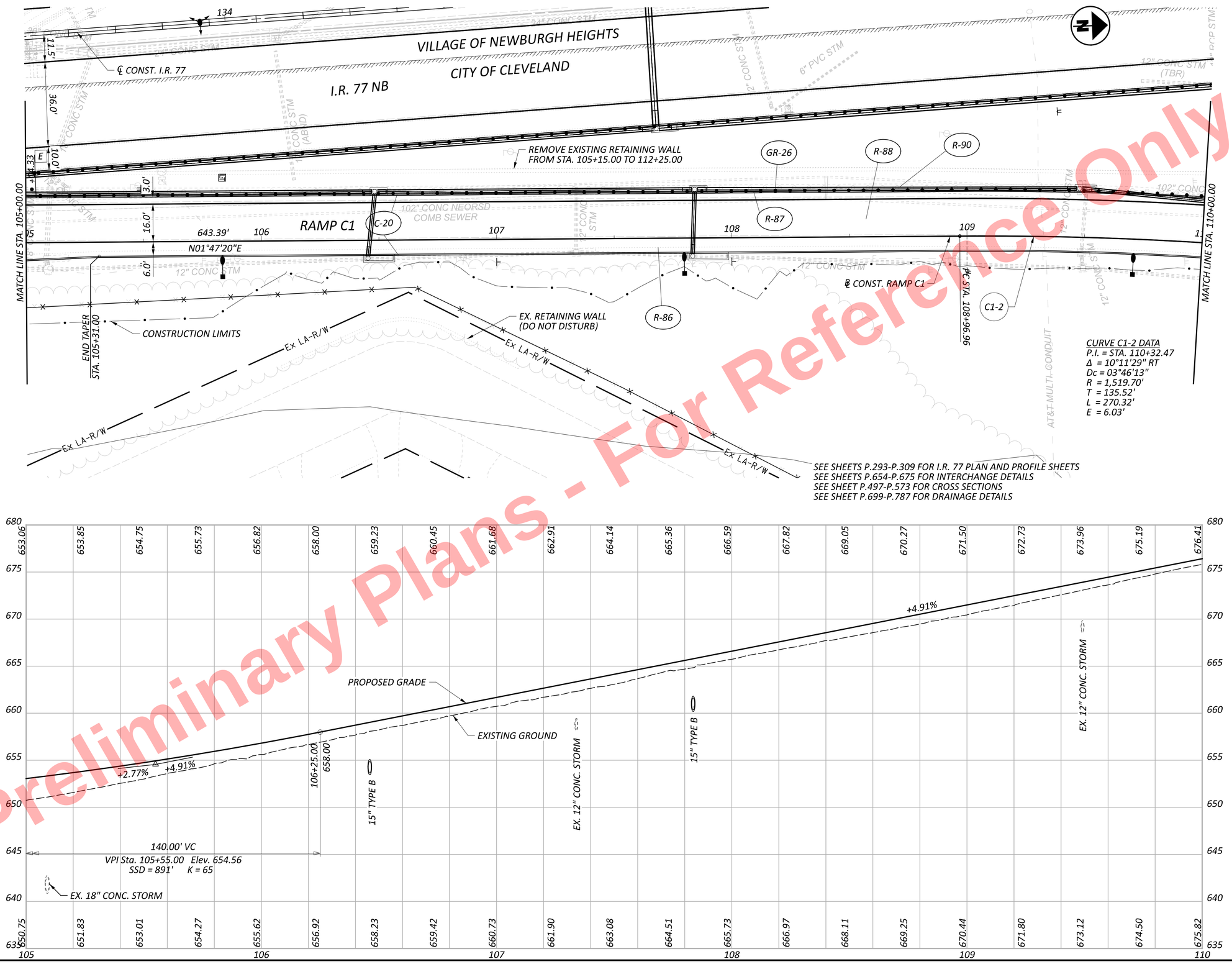

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP C1
STA. 105+00.00 TO STA. 110+00.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.324 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R743C1 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:21:49 PM USER: apendleton
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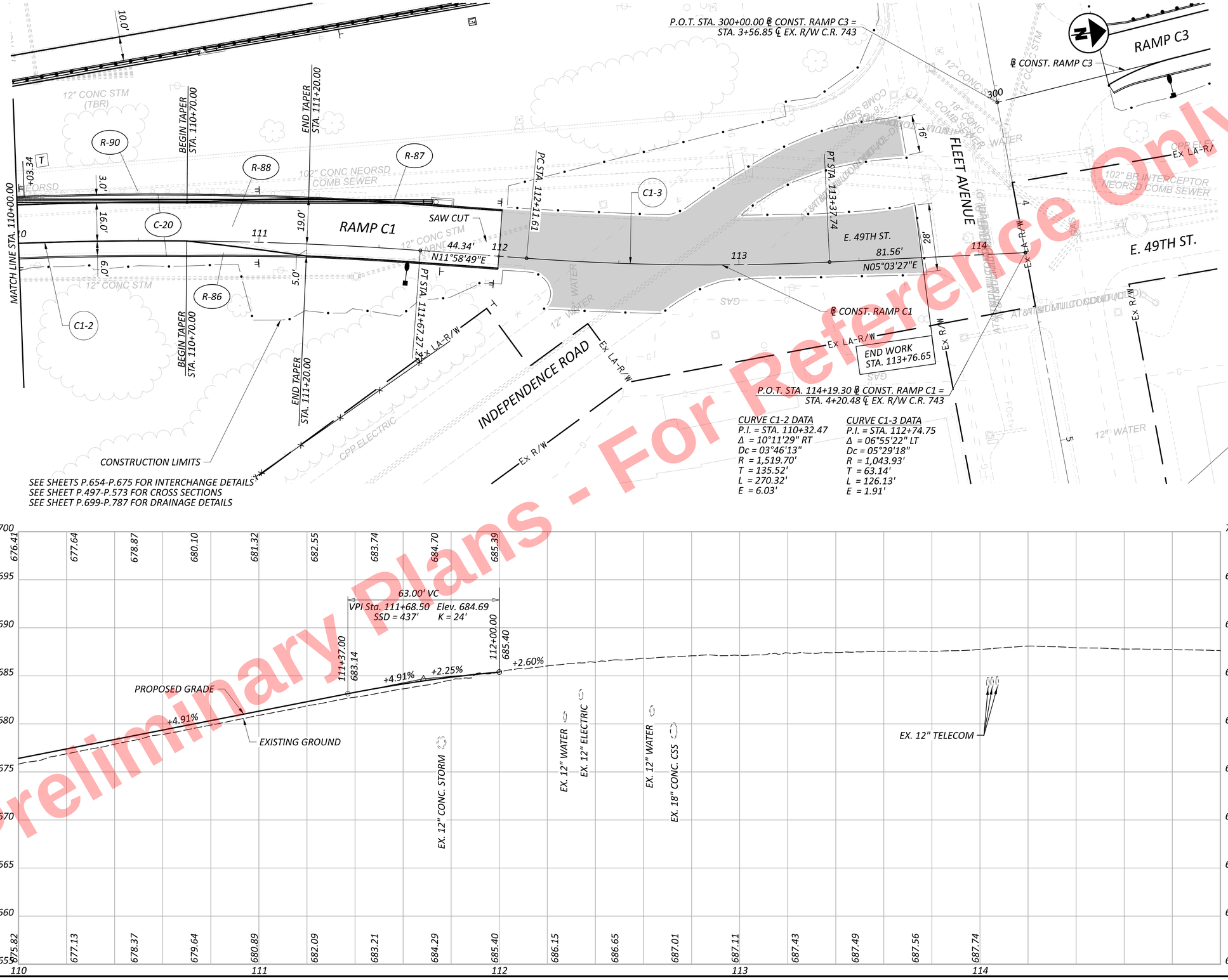

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP C1
STA. 110+00.00 TO END

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.325 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R743C1 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:21:52 PM USER: apendleton
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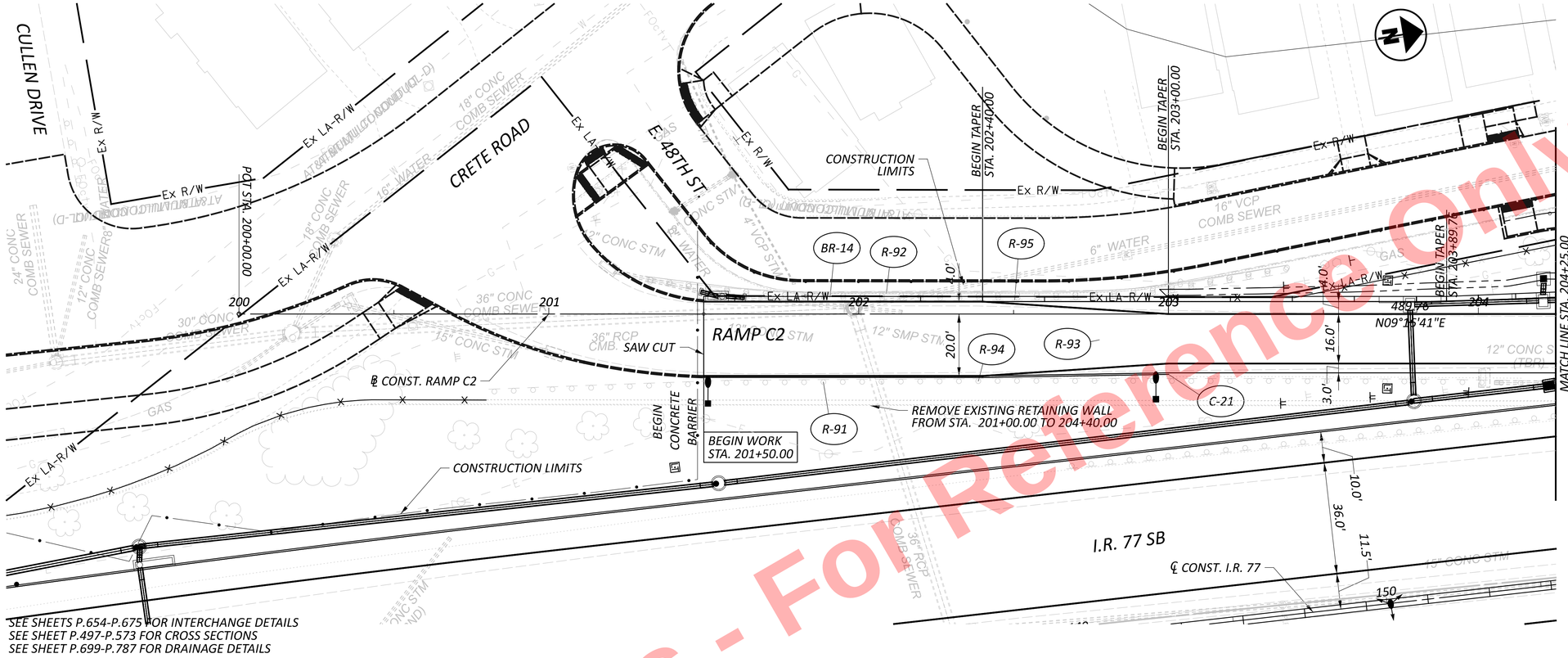
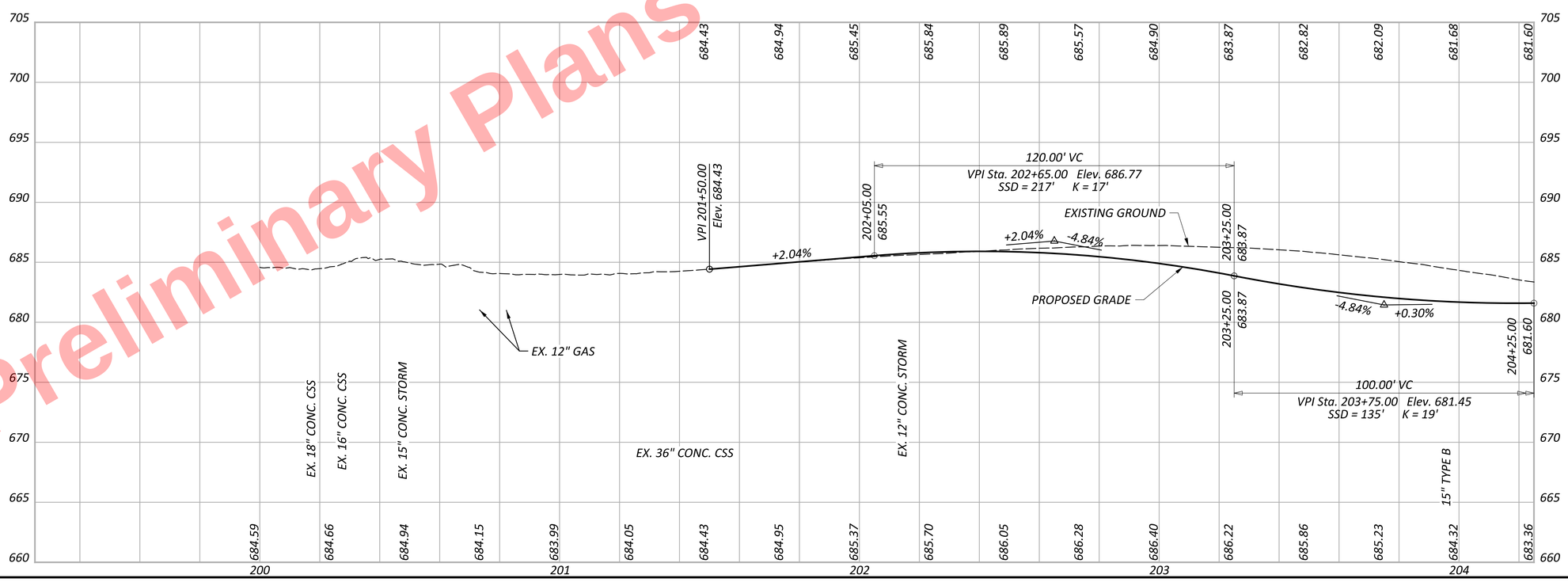


SEE SHEETS P.654-P.675 FOR INTERCHANGE DETAILS
SEE SHEET P.497-P.573 FOR CROSS SECTIONS
SEE SHEET P.699-P.787 FOR DRAINAGE DETAILS



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP C2
BEGIN TO STA. 204+00.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.326 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R743C2 - Plan A1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:22:18 PM USER: apendleton
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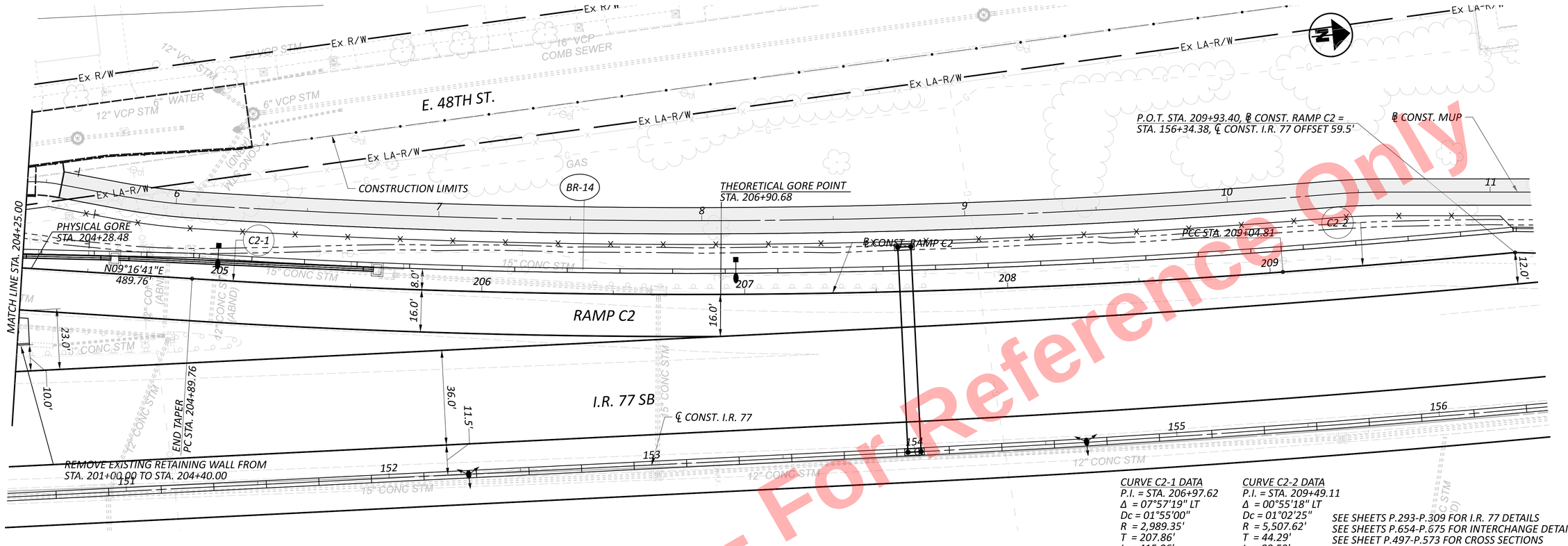
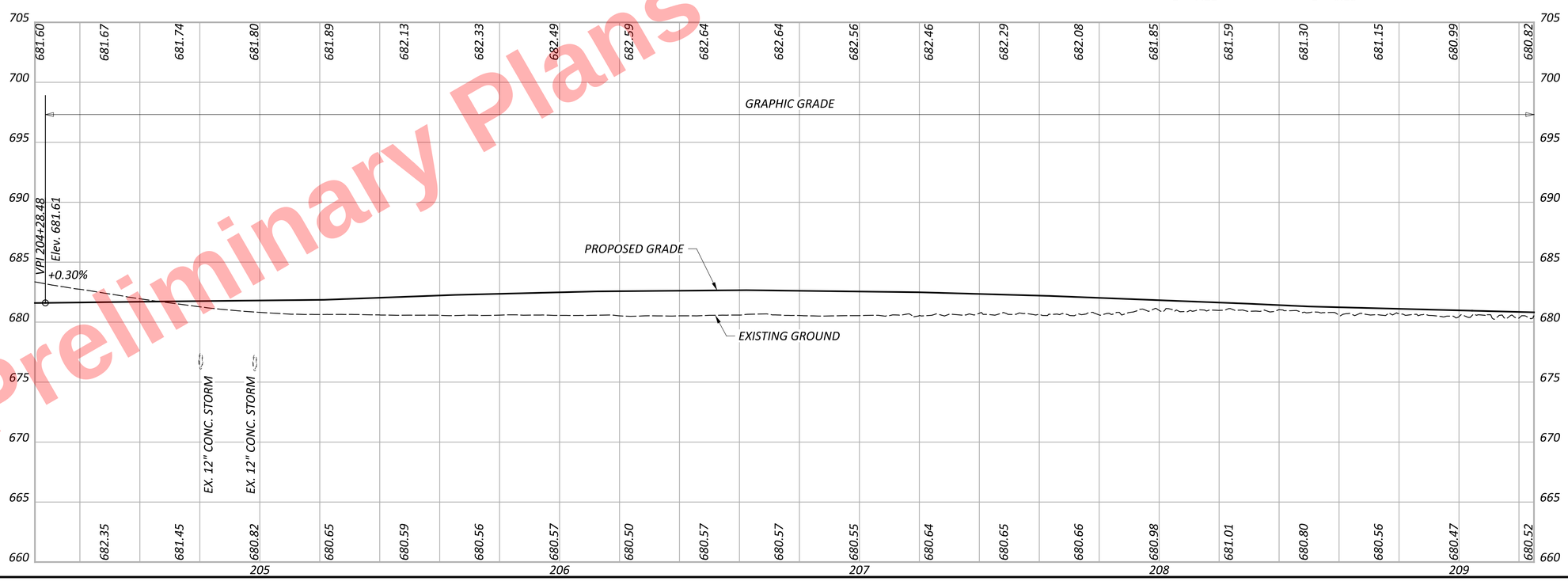


CURVE C2-1 DATA
P.I. = STA. 206+97.62
Δ = 07°57'19" LT
Dc = 01°55'00"
R = 2,989.35'
T = 207.86'
L = 415.06'
E = 7.22'

CURVE C2-2 DATA
P.I. = STA. 209+49.11
Δ = 00°55'18" LT
Dc = 01°02'25"
R = 5,507.62'
T = 44.29'
L = 88.59'
E = 0.18'

SEE SHEETS P.293-P.309 FOR I.R. 77 DETAILS
SEE SHEETS P.654-P.675 FOR INTERCHANGE DETAILS
SEE SHEET P.497-P.573 FOR CROSS SECTIONS
SEE SHEET P.699-P.787 FOR DRAINAGE DETAILS



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP C2
STA. 204+00.00 TO END

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.327 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R743C2 - Plan A2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:22:34 PM USER: apendleton
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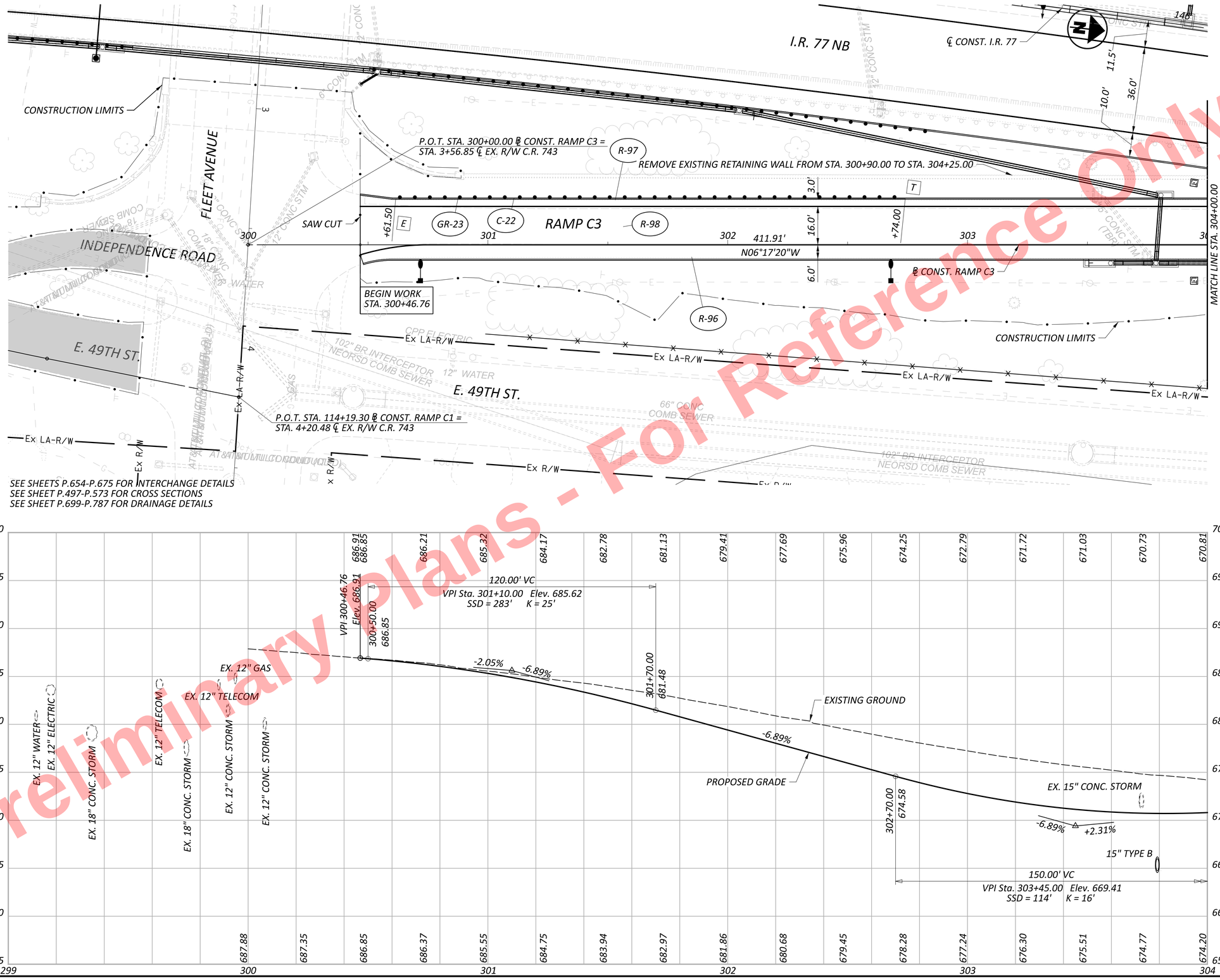
Preliminary Plans - For Reference Only



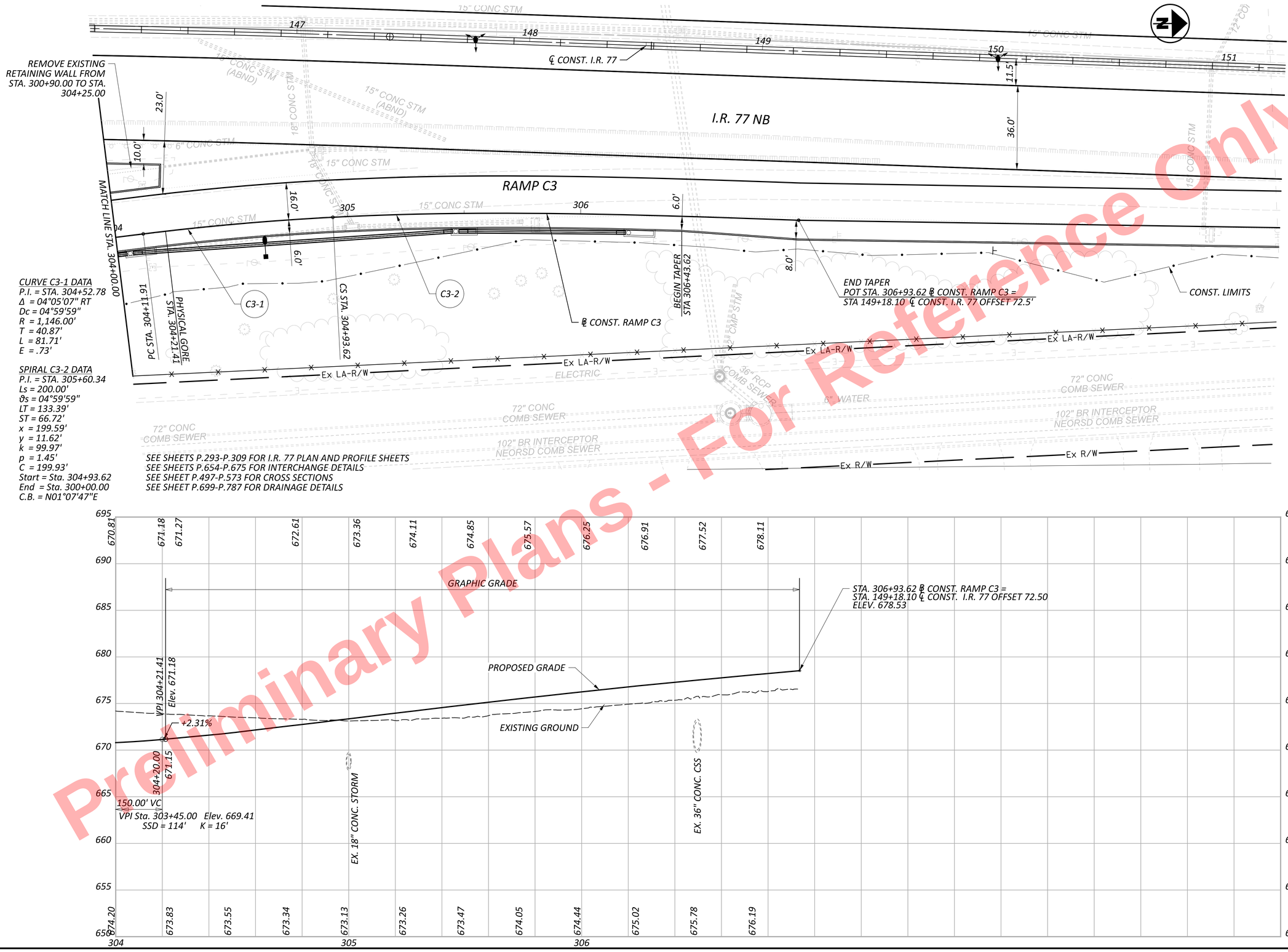
HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP C3
BEGIN TO STA. 304+00.00

DESIGN AGENCY	HNTB
DESIGNER	EAP
REVIEWER	KKP 04/01/22
PROJECT ID	105743
SHEET	P.328
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R743C3 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:22:55 PM USER: apendleton
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_GP403.dgn



CURVE C3-1 DATA
P.I. = STA. 304+52.78
Δ = 04°05'07" RT
Dc = 04°59'59"
R = 1,146.00'
T = 40.87'
L = 81.71'
E = .73'

SPIRAL C3-2 DATA
P.I. = STA. 305+60.34
Ls = 200.00'
ϑs = 04°59'59"
LT = 133.39'
ST = 66.72'
x = 199.59'
y = 11.62'
k = 99.97'
p = 1.45'
C = 199.93'
Start = Sta. 304+93.62
End = Sta. 300+00.00
C.B. = N01°07'47"E

SEE SHEETS P.293-P.309 FOR I.R. 77 PLAN AND PROFILE SHEETS
SEE SHEETS P.654-P.675 FOR INTERCHANGE DETAILS
SEE SHEET P.497-P.573 FOR CROSS SECTIONS
SEE SHEET P.699-P.787 FOR DRAINAGE DETAILS

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP C3
STA. 304+00.00 TO END

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.329 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R743C3 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:22:57 PM USER: apendleton
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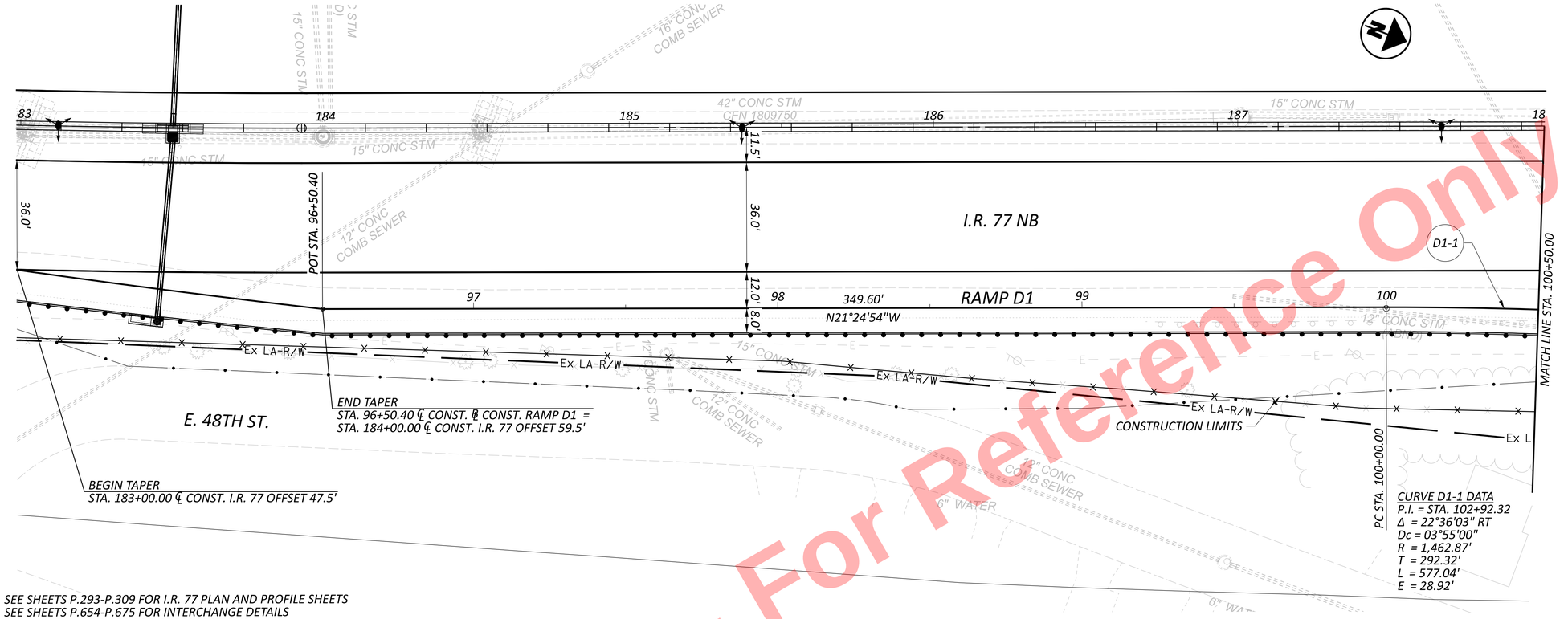
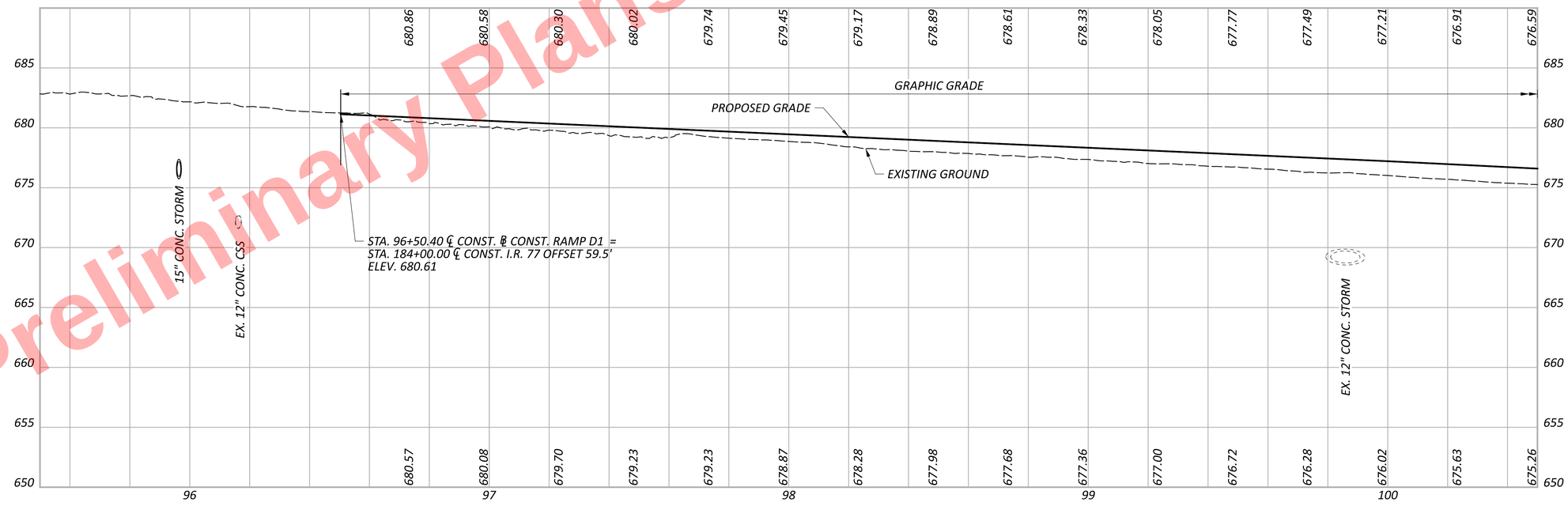


SEE SHEETS P.293-P.309 FOR I.R. 77 PLAN AND PROFILE SHEETS
SEE SHEETS P.654-P.675 FOR INTERCHANGE DETAILS
SEE SHEET P.497-P.573 FOR CROSS SECTIONS
SEE SHEET P.699-P.787 FOR DRAINAGE DETAILS



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

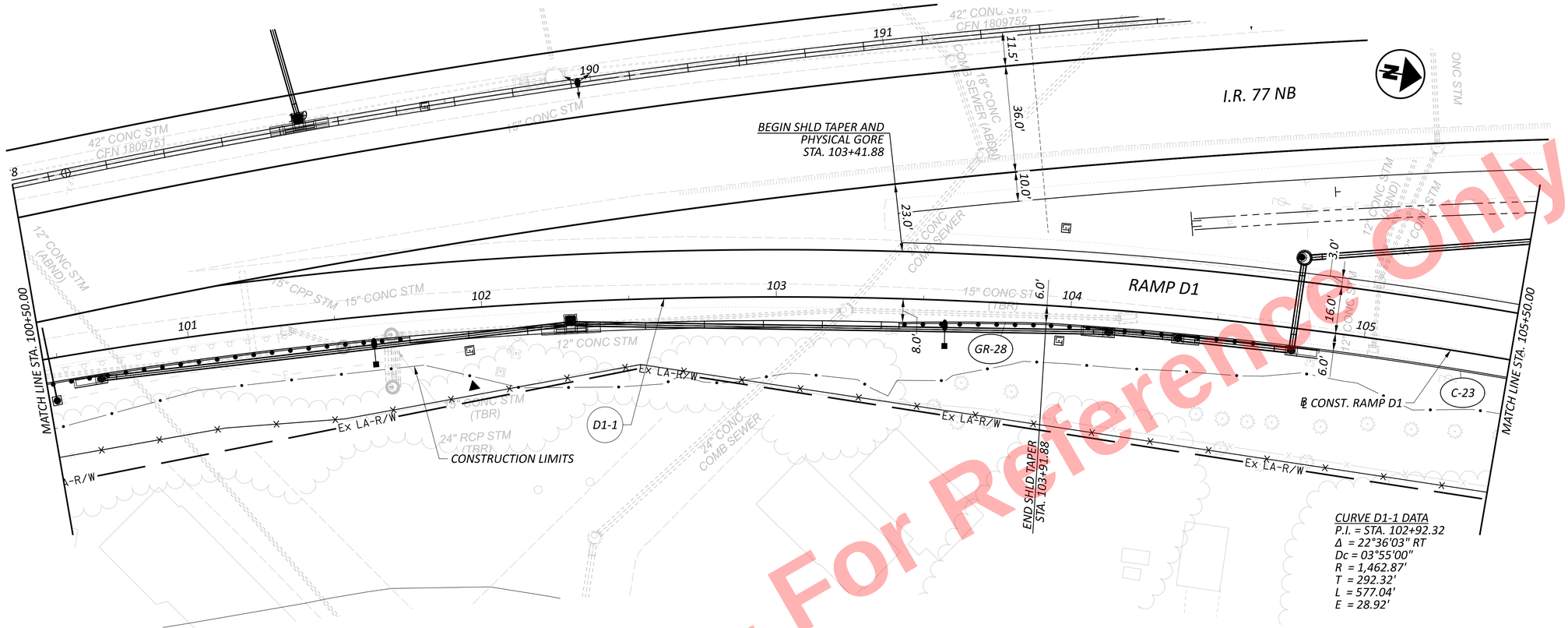
PLAN AND PROFILE - RAMP D1
BEGIN RAMP TO STA. 96+45

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

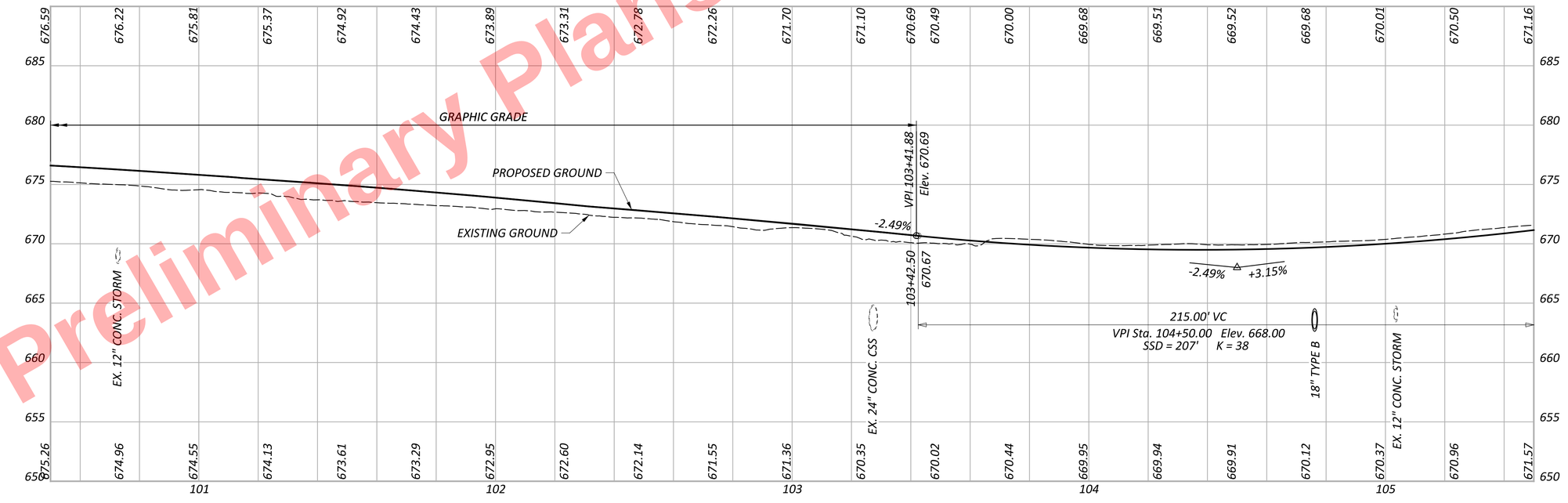
DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.330 TOTAL P.1269

MODEL: BLP_R329D1 - Plan A1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:23:22 PM USER: apendleton
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GP501.dgn



CURVE D1-1 DATA
P.I. = STA. 102+92.32
Δ = 22°36'03" RT
Dc = 03°55'00"
R = 1,462.87'
T = 292.32'
L = 577.04'
E = 28.92'

SEE SHEETS P.293-P.309 FOR I.R. 77 PLAN AND PROFILE SHEETS
SEE SHEETS P.654-P.675 FOR INTERCHANGE DETAILS
SEE SHEET P.497-P.573 FOR CROSS SECTIONS
SEE SHEET P.699-P.787 FOR DRAINAGE DETAILS



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

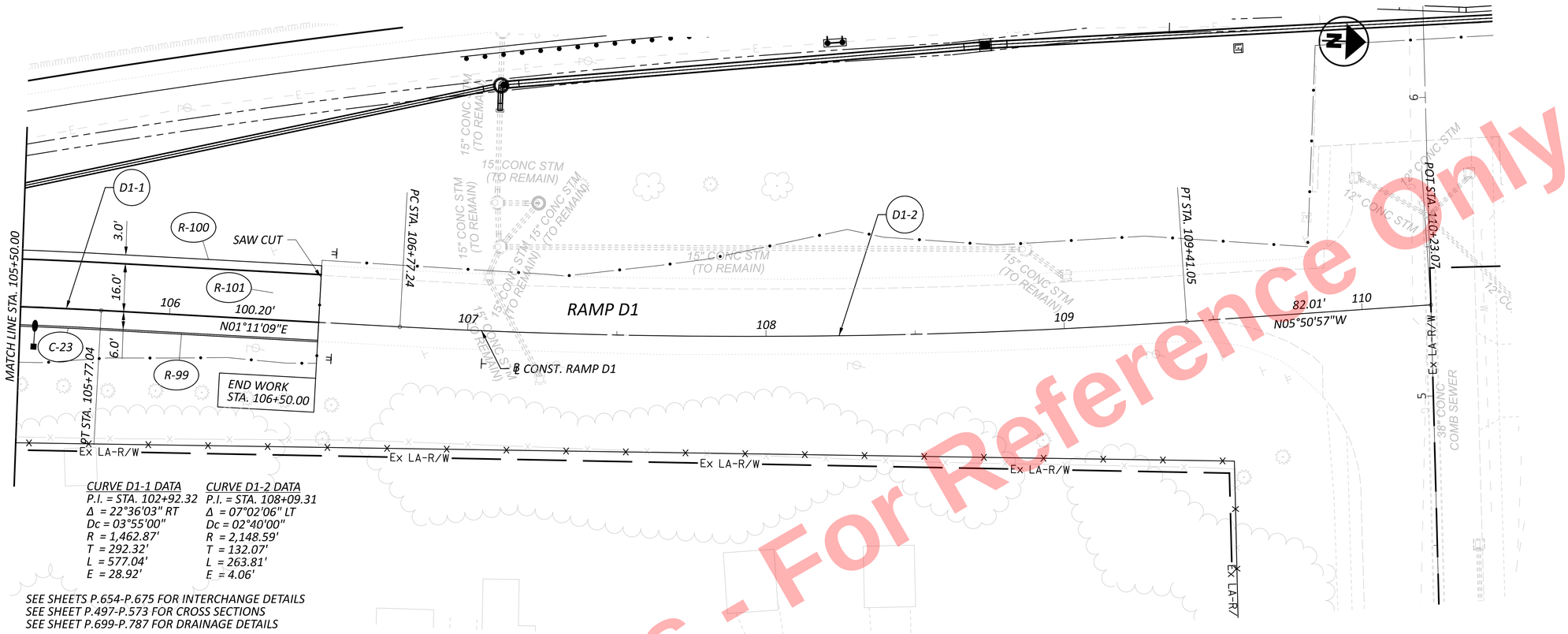
PLAN AND PROFILE - RAMP D1
STA. 96+45 TO STA. 101+50

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.331 TOTAL P.1269

CUY-77-11.41 - PART 1

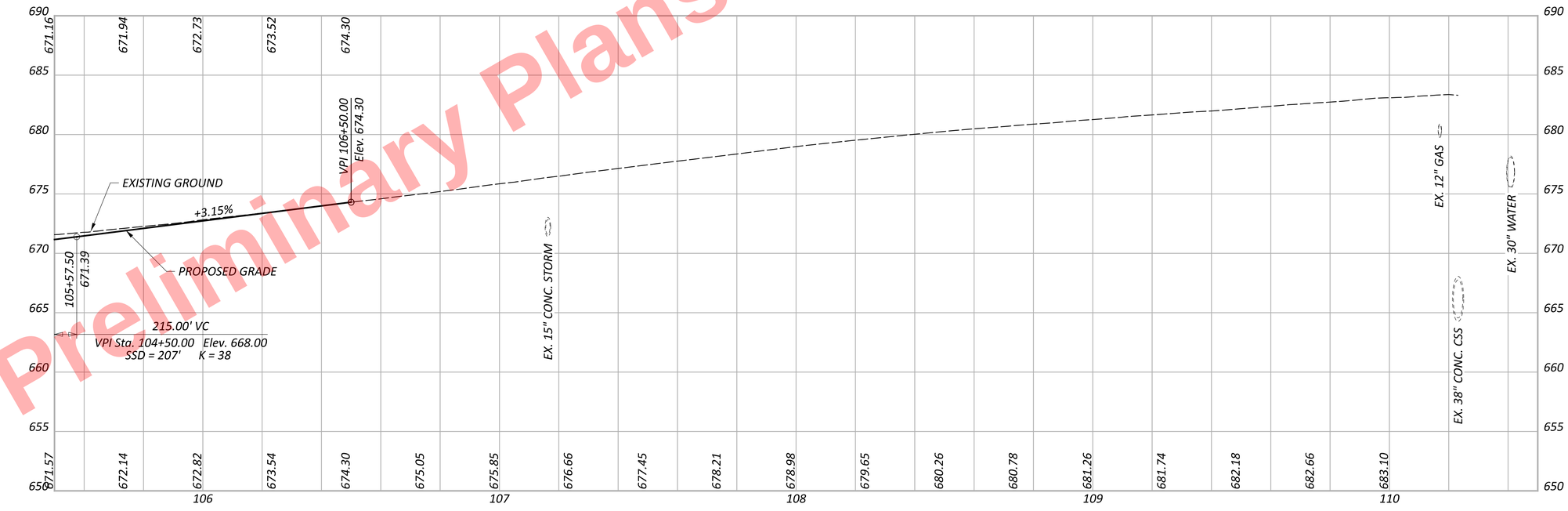
MODEL: BLP_R329D1 - Plan A2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:23:25 PM USER: apendleton
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GP501.dgn



CURVE D1-1 DATA
P.I. = STA. 102+92.32
Δ = 22°36'03" RT
Dc = 03°55'00"
R = 1,462.87'
T = 292.32'
L = 577.04'
E = 28.92'

CURVE D1-2 DATA
P.I. = STA. 108+09.31
Δ = 07°02'06" LT
Dc = 02°40'00"
R = 2,148.59'
T = 132.07'
L = 263.81'
E = 4.06'

SEE SHEETS P.654-P.675 FOR INTERCHANGE DETAILS
SEE SHEET P.497-P.573 FOR CROSS SECTIONS
SEE SHEET P.699-P.787 FOR DRAINAGE DETAILS



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP D1
STA. 101+50 TO END

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.332 TOTAL P.1269

CUY-77-11.41 - PART 1

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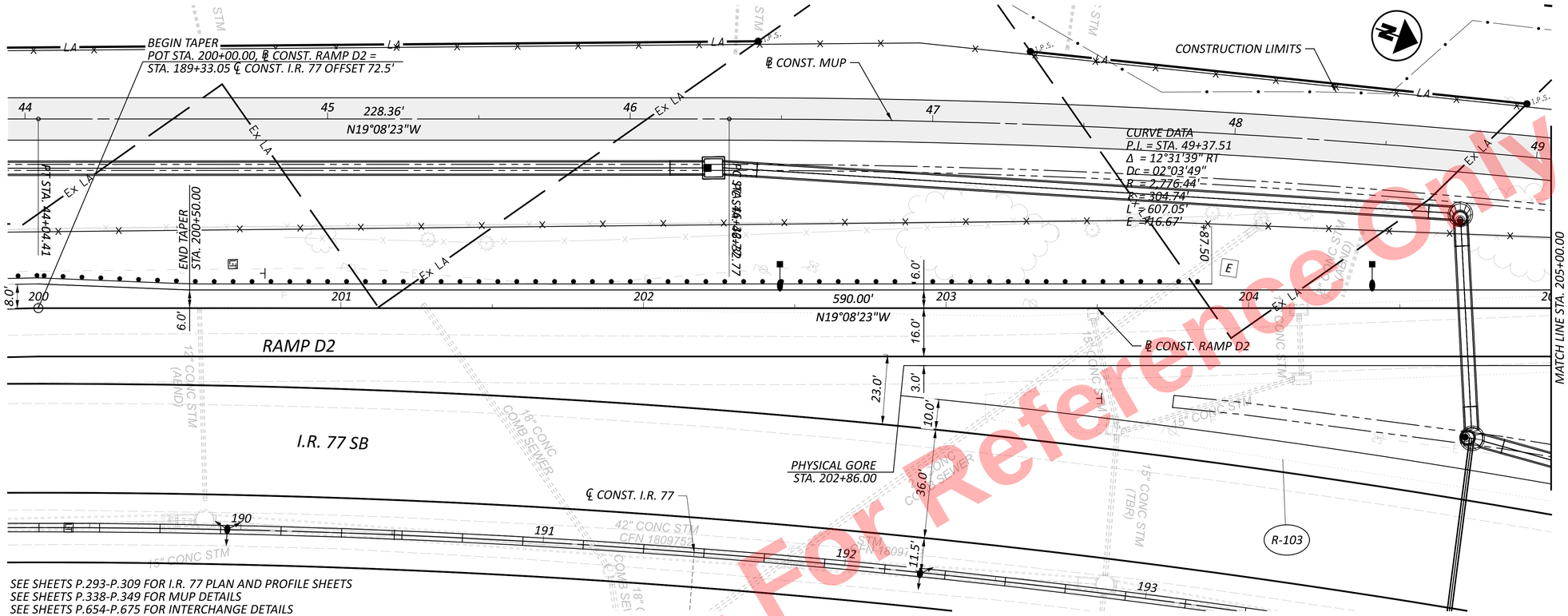

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP D2
BEGIN TO STA. 205+00.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.333 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R329D2 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:23:48 PM USER: apendleton
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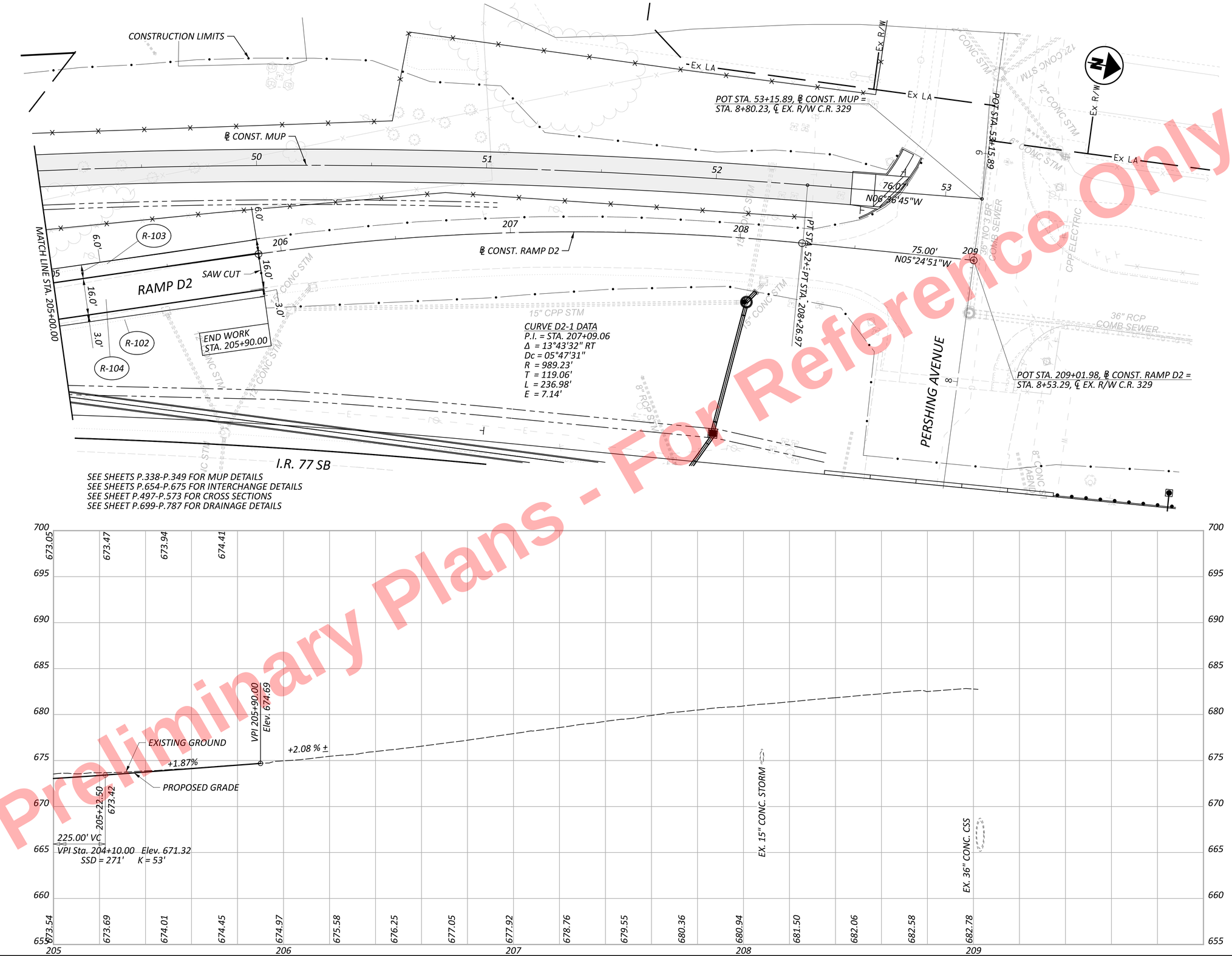

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP D2
STA. 205+00.00 TO END

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
KKP 04/01/22

PROJECT ID
105743

SHEET P.334 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R329D2 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:23:54 PM USER: apendleton
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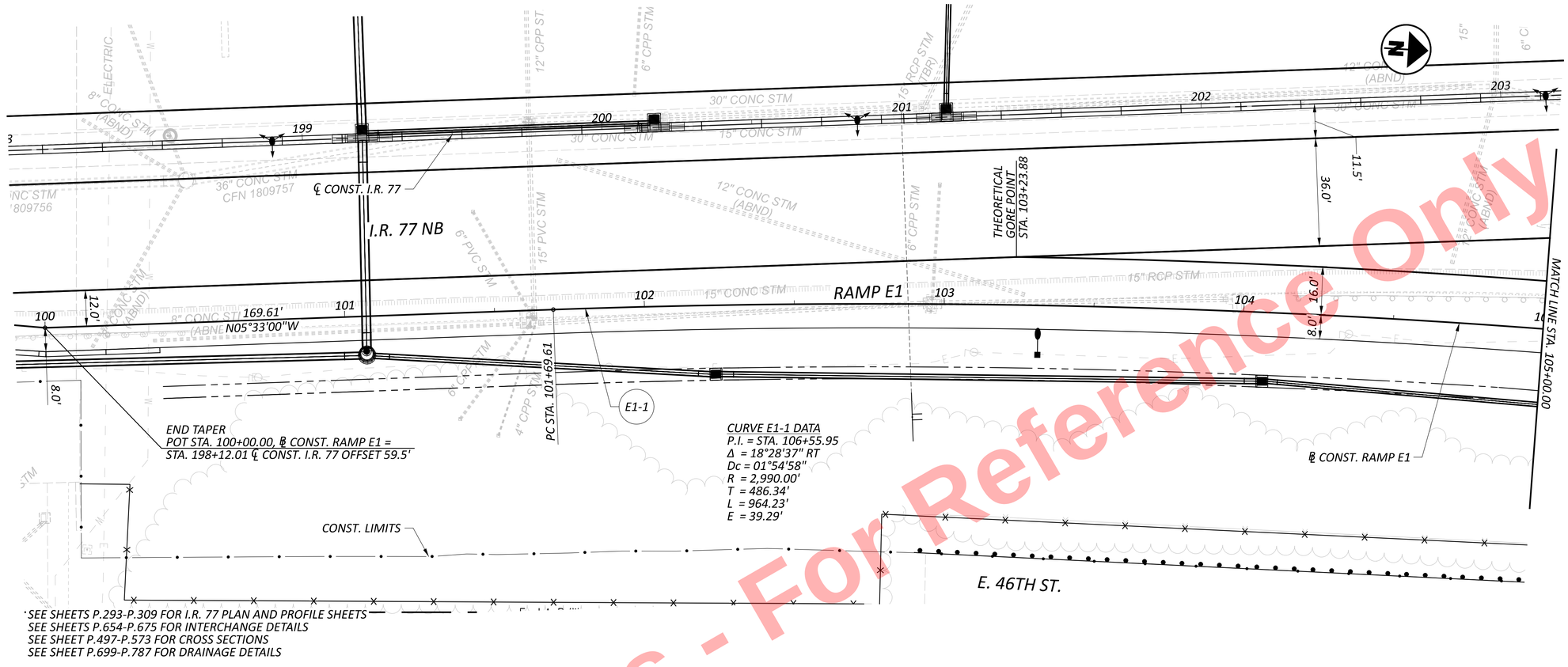
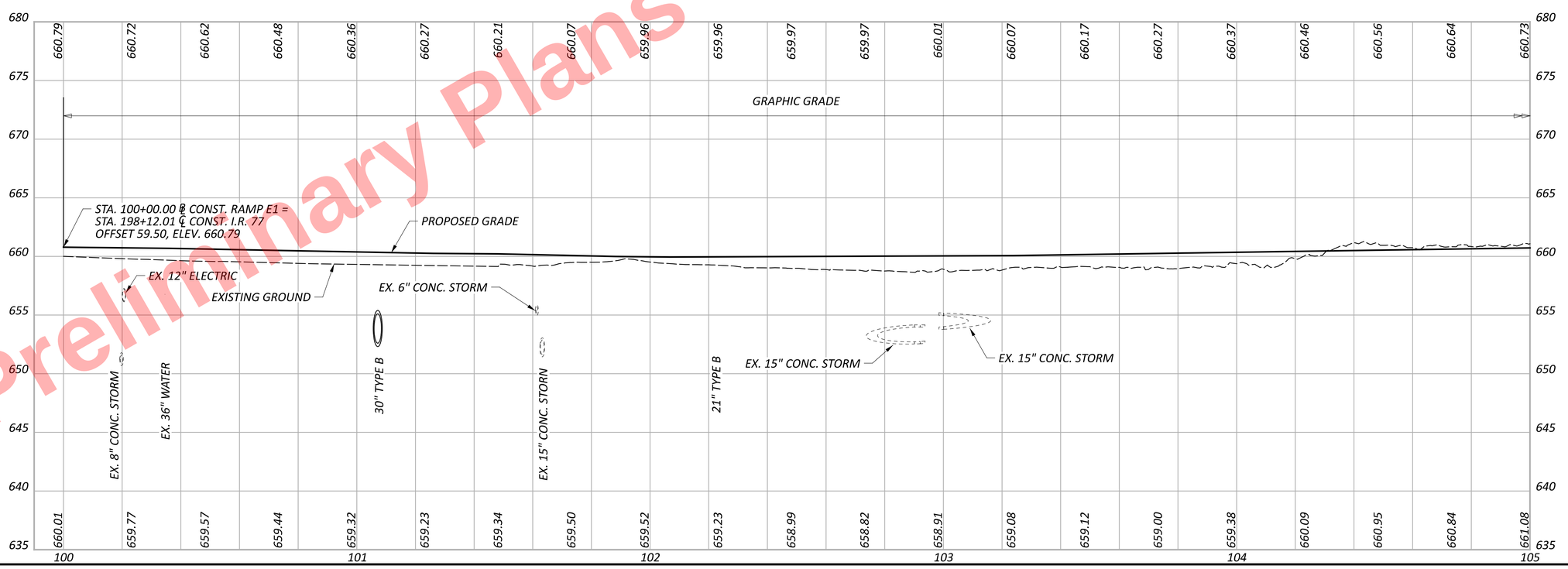


SEE SHEETS P.293-P.309 FOR I.R. 77 PLAN AND PROFILE SHEETS
SEE SHEETS P.654-P.675 FOR INTERCHANGE DETAILS
SEE SHEET P.497-P.573 FOR CROSS SECTIONS
SEE SHEET P.699-P.787 FOR DRAINAGE DETAILS



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP E1
BEGIN TO STA. 105+00.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.335 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R043E1 - Plan A1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:24:23 PM USER: apendleton
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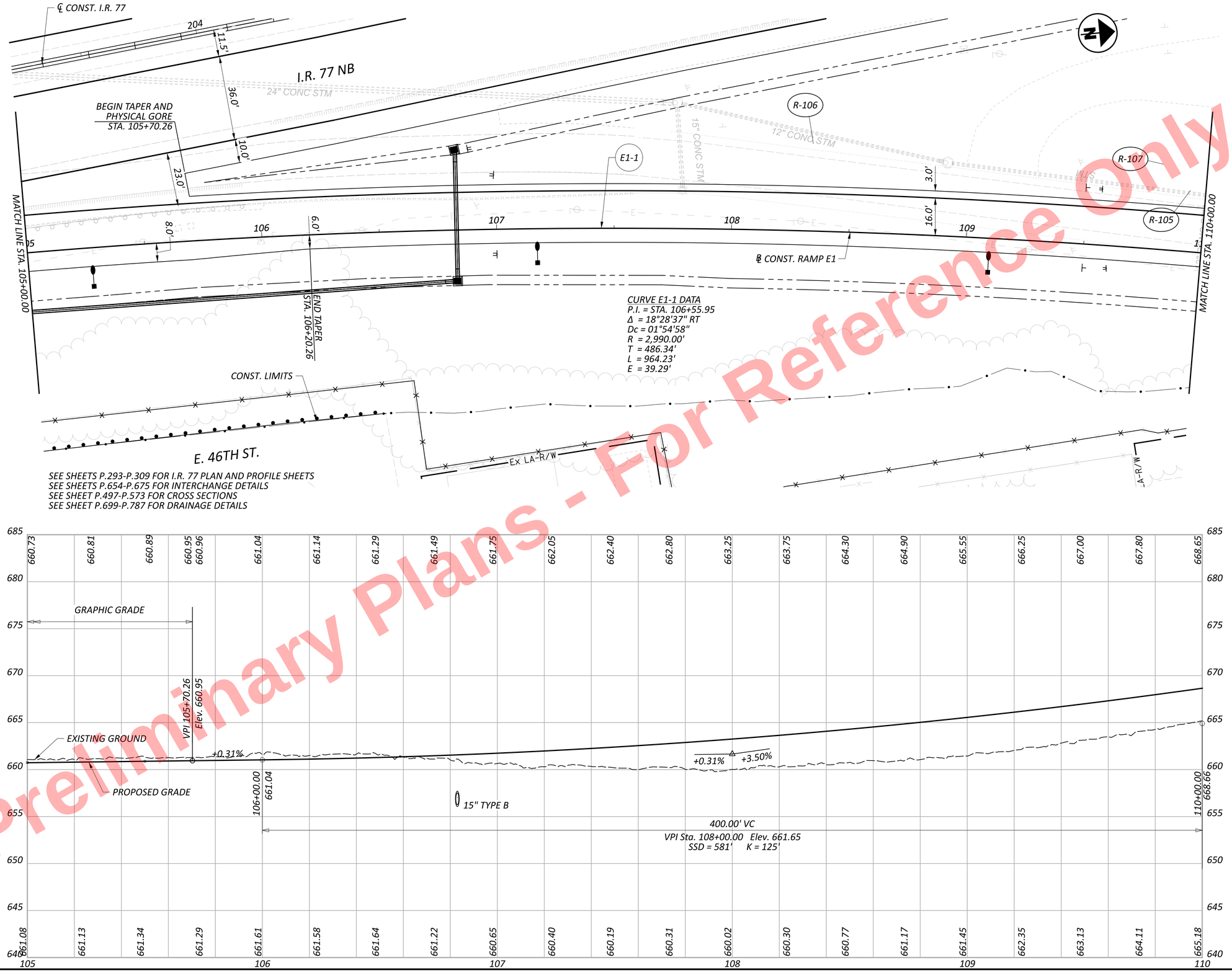

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP E1
STA. 105+00.00 TO STA. 110+00.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.336 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R043E1 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:24:27 PM USER: apendleton
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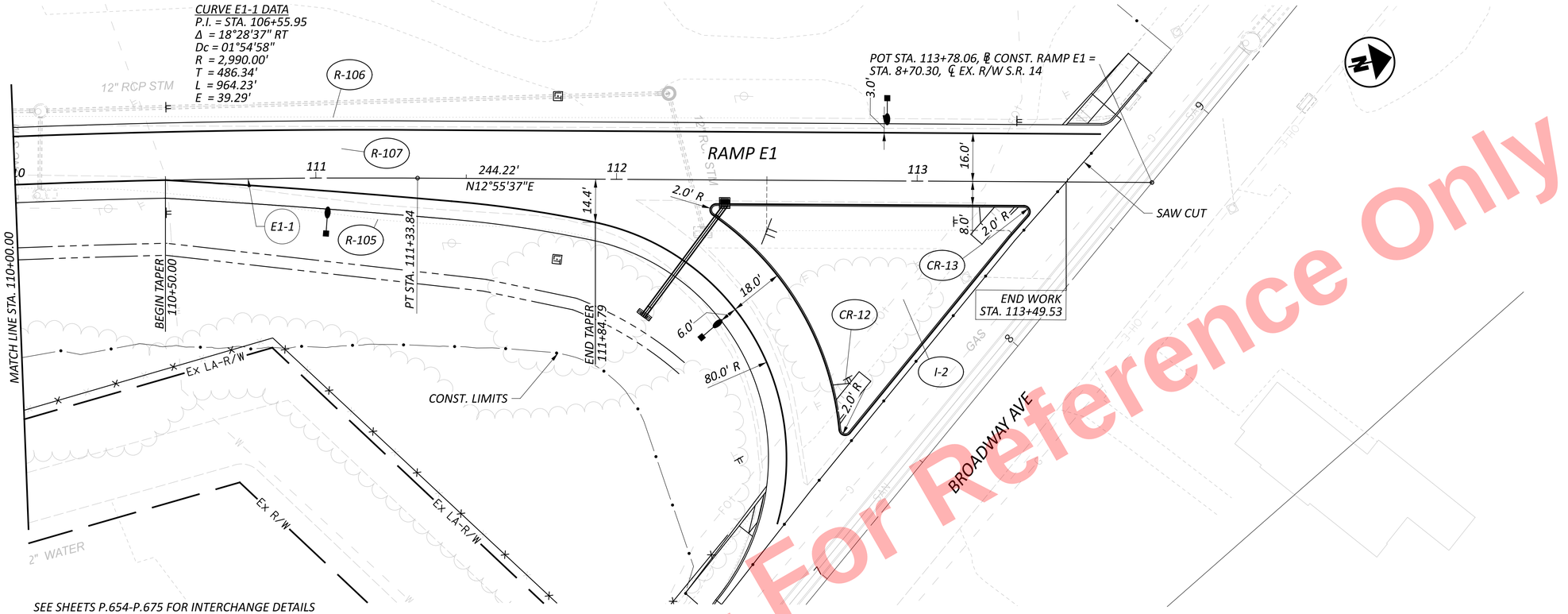

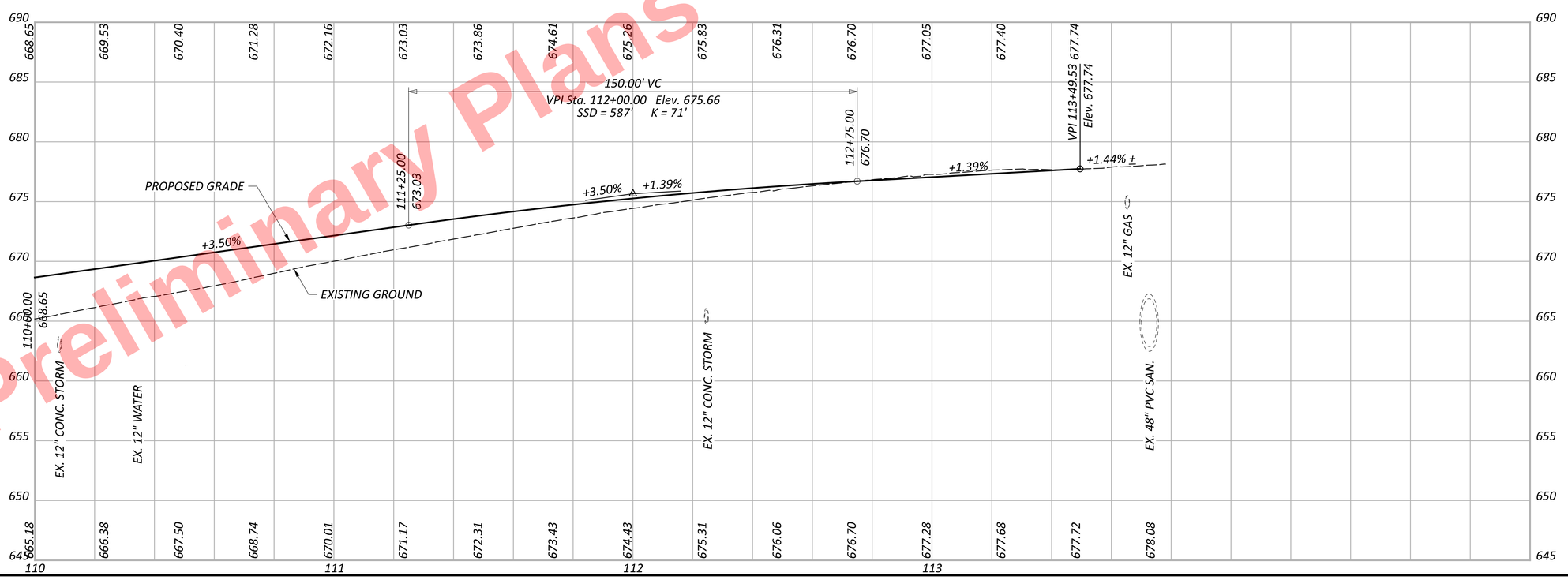

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP E1
STA. 110+00.00 TO END

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 11/05/25
PROJECT ID 105743
SHEET P.337 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R043E1 - Plan A3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:24:30 PM USER: apendleton
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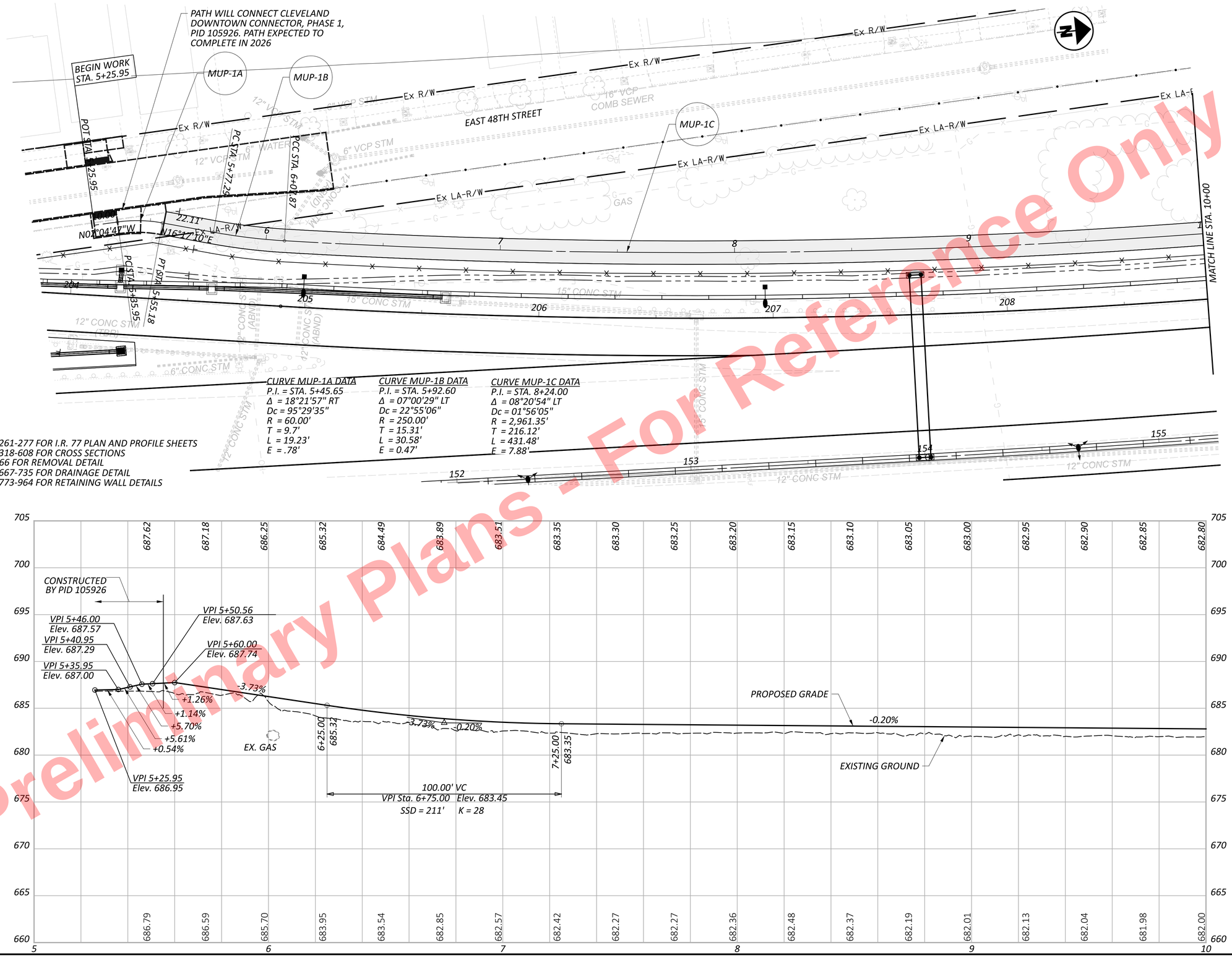

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - MUP WEST
BEGIN TO STA. 10+00.00

DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.338 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: MUP - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:24:55 PM USER: apendleton
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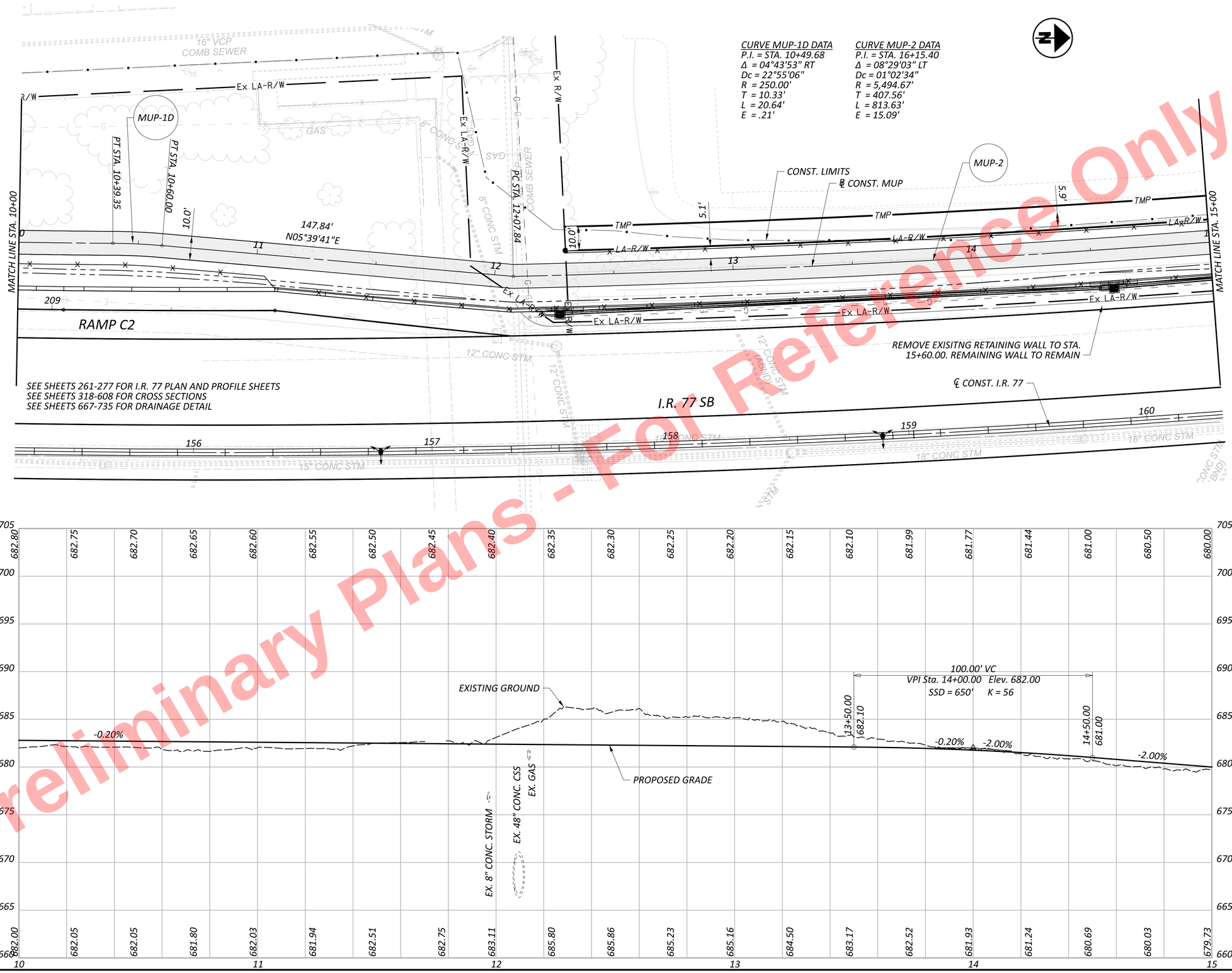

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - MUP WEST
STA. 10+00.00 TO STA. 15+00.00

DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.339 TOTAL P.1269

CUY-77-11.41 - PART 1

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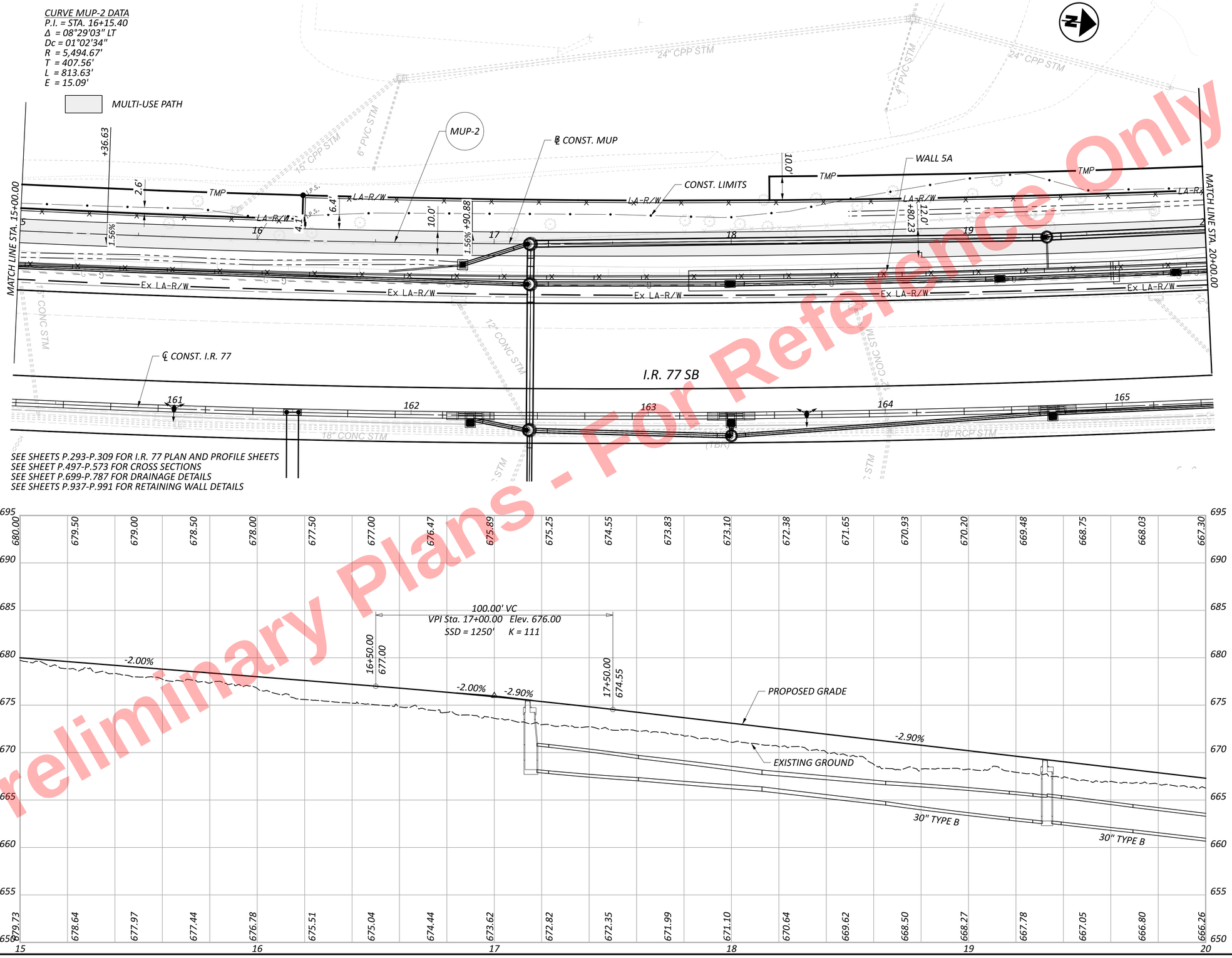

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET 0 10 20 40

PLAN AND PROFILE - MUP WEST
STA. 15+00.00 TO STA. 20+00.00

DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.340 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: MUP - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:25:01 PM USER: apendleton
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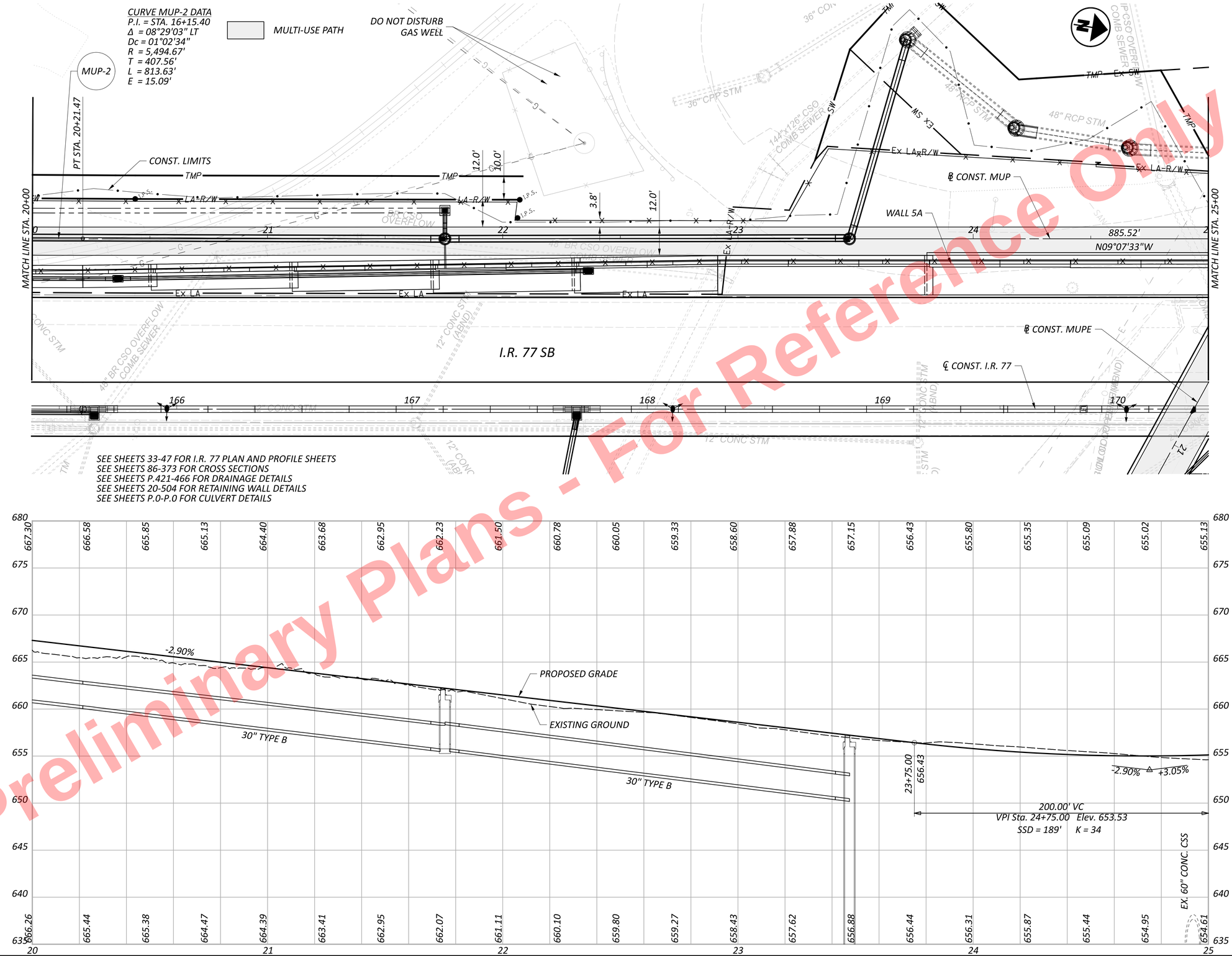

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET 0 10 20 40

PLAN AND PROFILE - MUP WEST
STA. 20+00.00 TO STA. 25+00.00

DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.341 TOTAL P.1269

CUY-77-11.41 - PART 1

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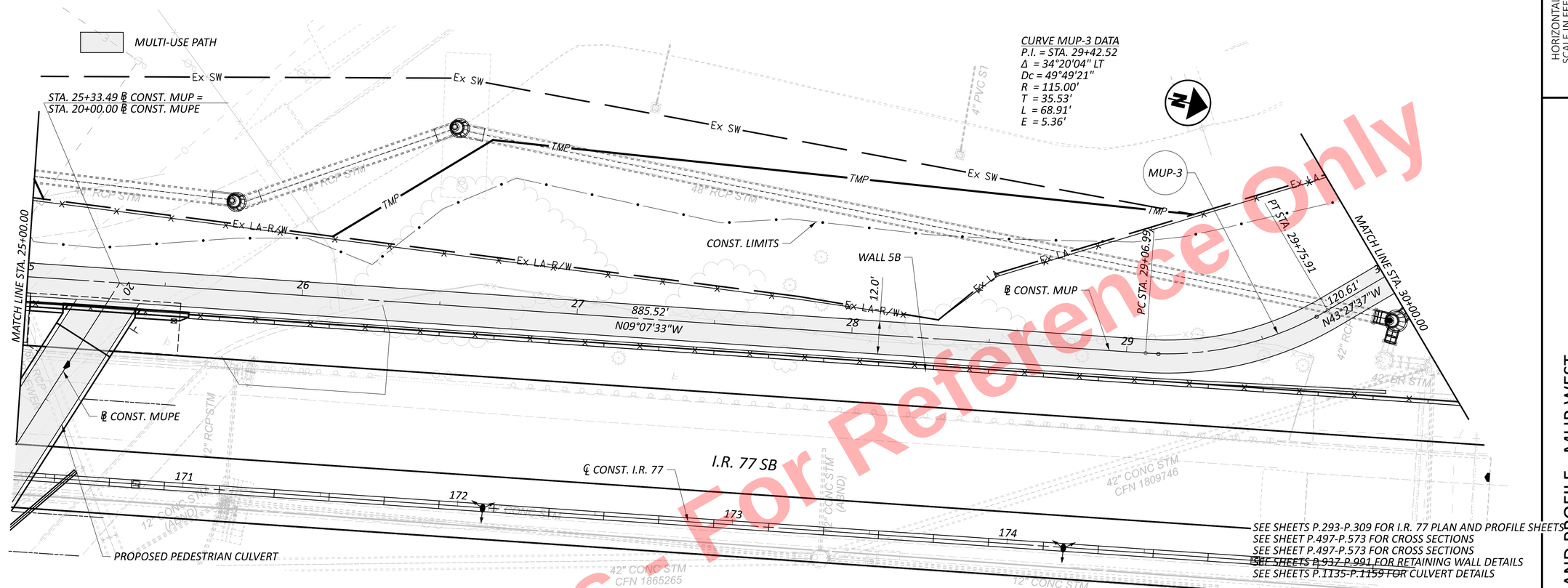
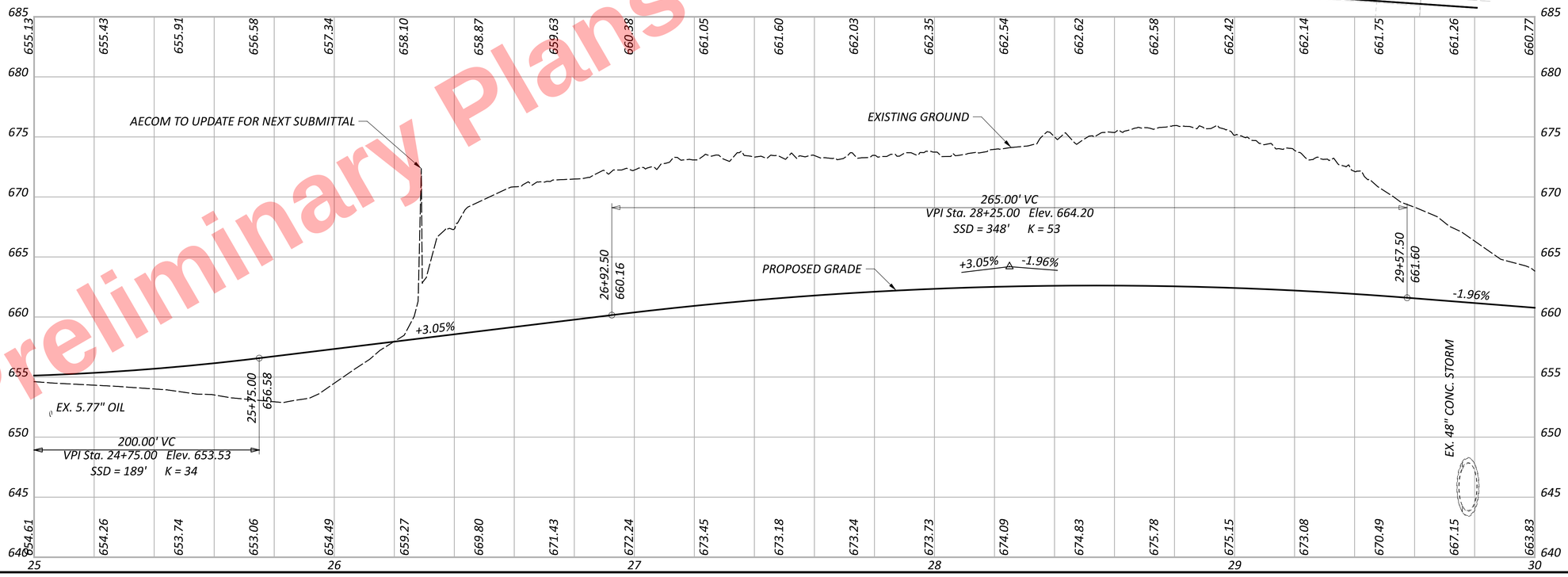
Preliminary Plans - For Reference Only



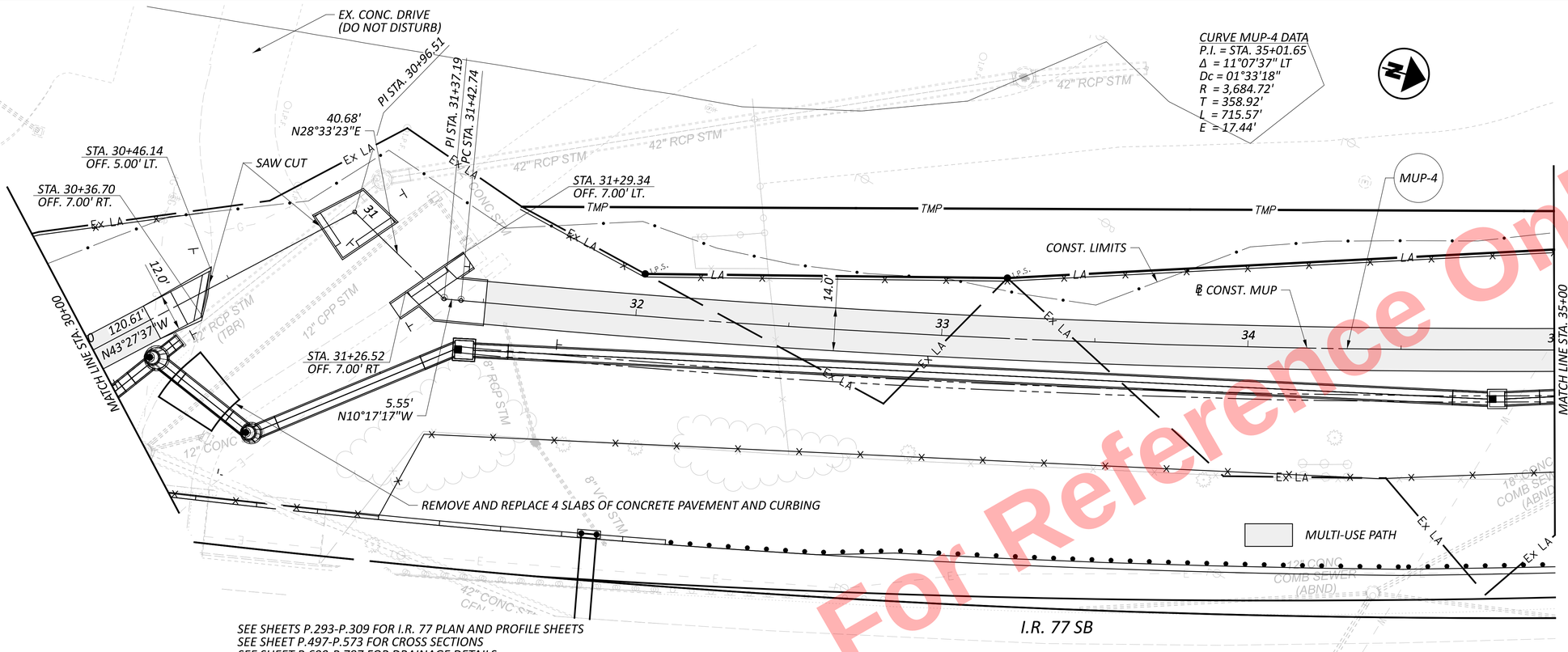


HORIZONTAL SCALE IN FEET
0 10 20 40

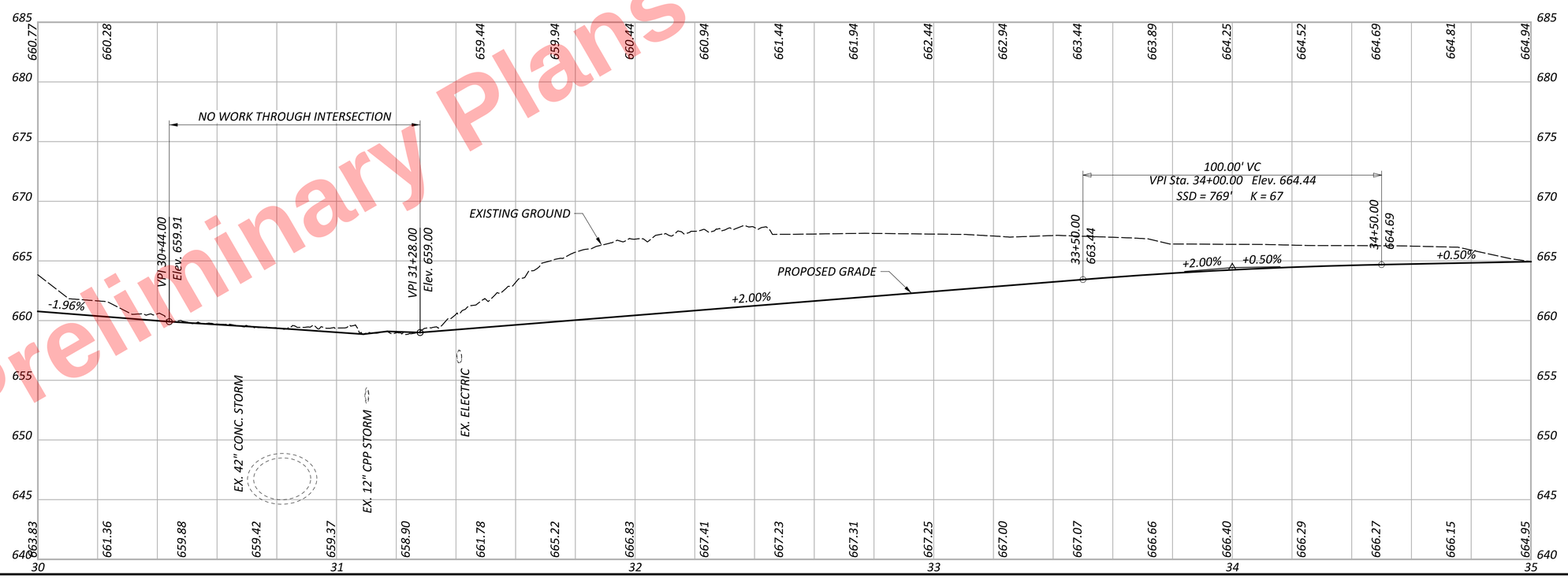
PLAN AND PROFILE - MUP WEST
STA. 25+00.00 TO STA. 30+00.00

DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.342 TOTAL P.1269



SEE SHEETS P.293-P.309 FOR I.R. 77 PLAN AND PROFILE SHEETS
SEE SHEET P.497-P.573 FOR CROSS SECTIONS
SEE SHEET P.699-P.787 FOR DRAINAGE DETAILS



Preliminary Plans - Not For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - MUP WEST
STA. 30+00.00 TO STA. 35+00.00

CUY-77-11.41 - PART 1

MODEL: MUP - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:25:09 PM USER: apendleton
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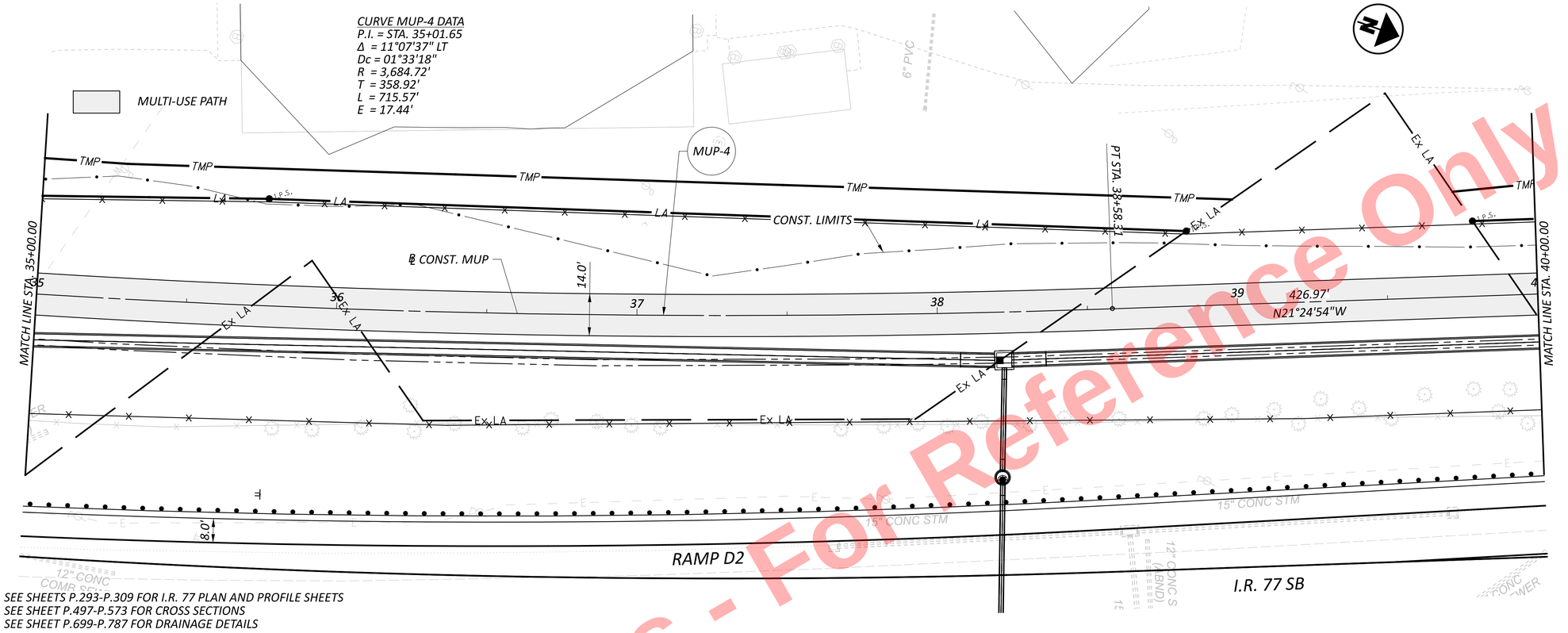
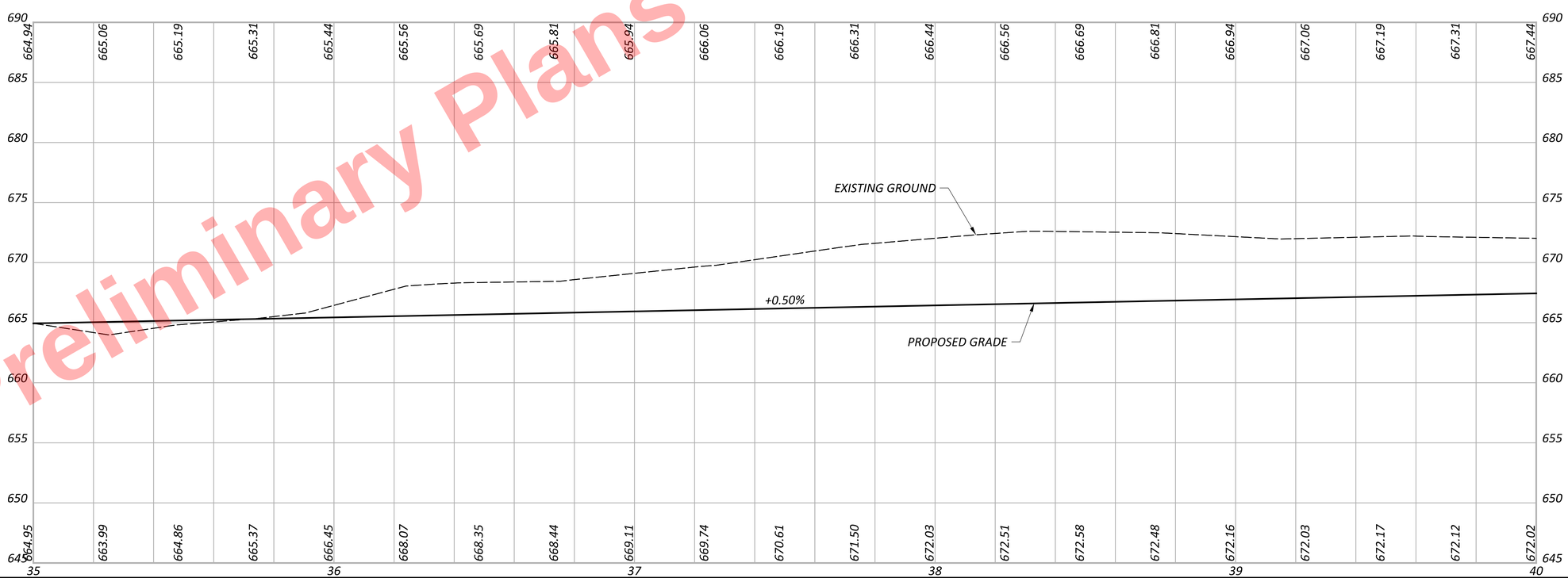
DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.343 TOTAL P.1269



SEE SHEETS P.293-P.309 FOR I.R. 77 PLAN AND PROFILE SHEETS
SEE SHEET P.497-P.573 FOR CROSS SECTIONS
SEE SHEET P.699-P.787 FOR DRAINAGE DETAILS



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - MUP WEST
STA. 35+00.00 TO STA. 40+00.00

DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.344 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: MUP - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:25:11 PM USER: apendleton
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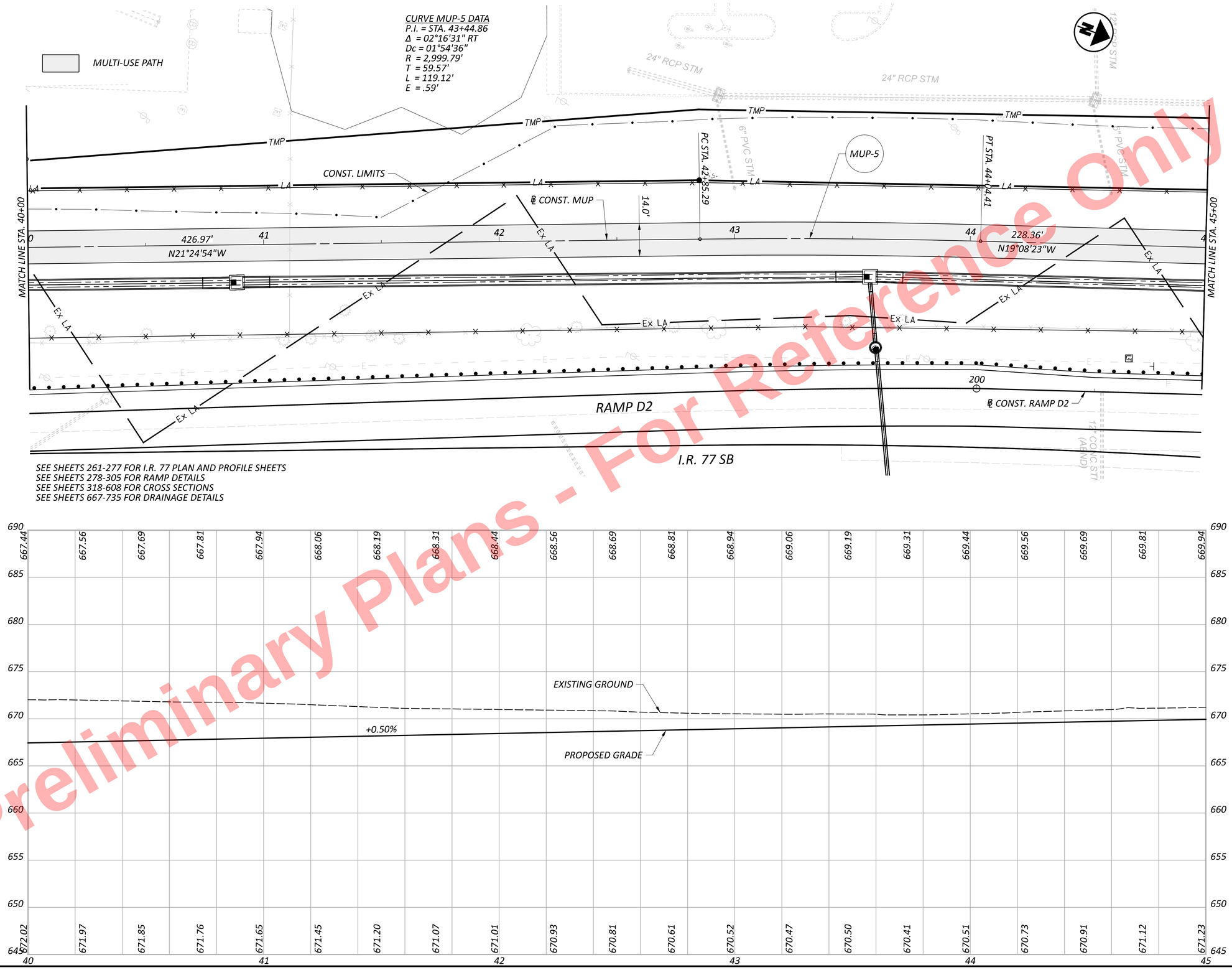

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - MUP WEST
STA. 40+00.00 TO STA. 45+00.00

DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.345 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: MUP - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:25:13 PM USER: apendleton
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MODEL: MUP - Plan 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:25:15 PM USER: apendleton
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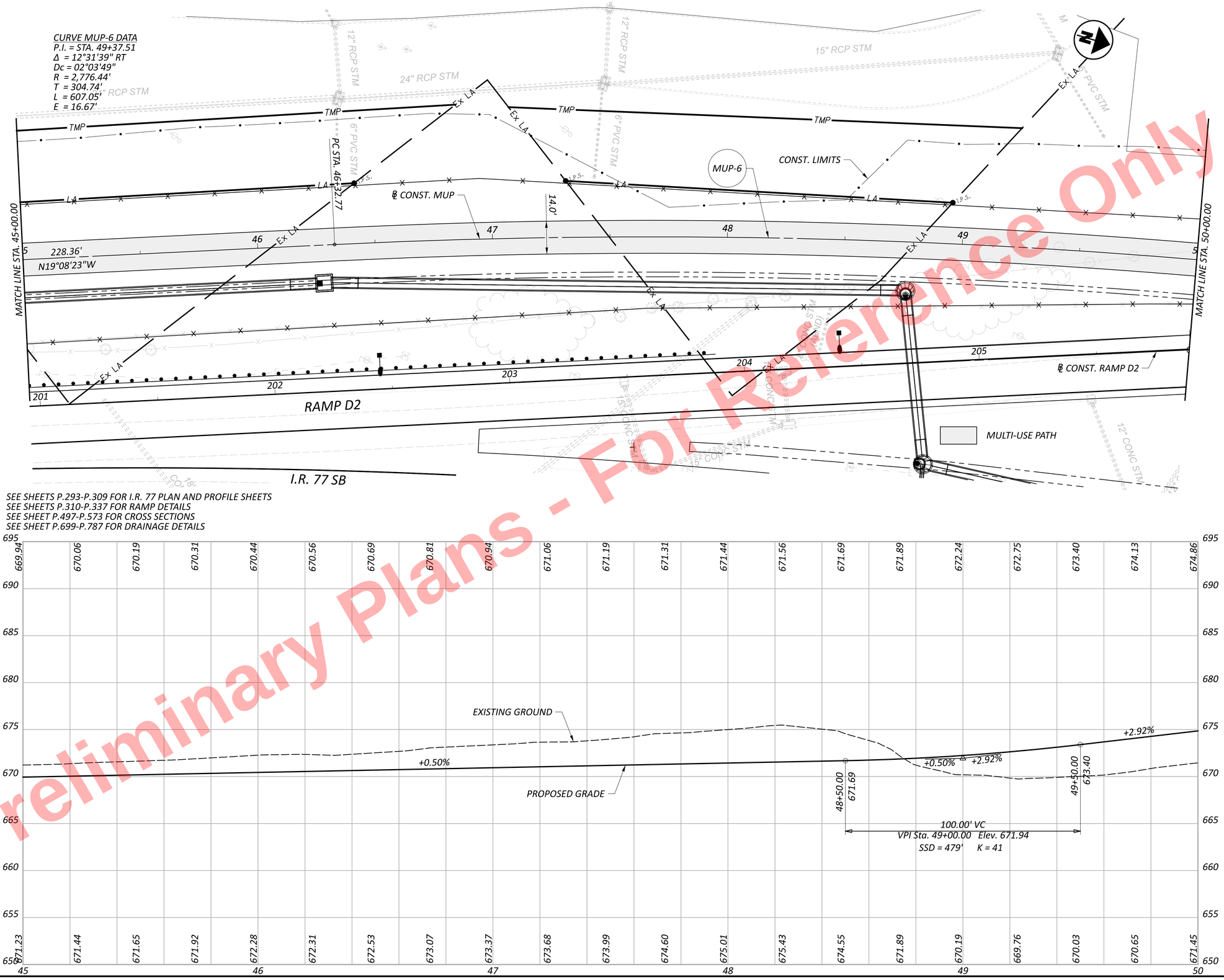


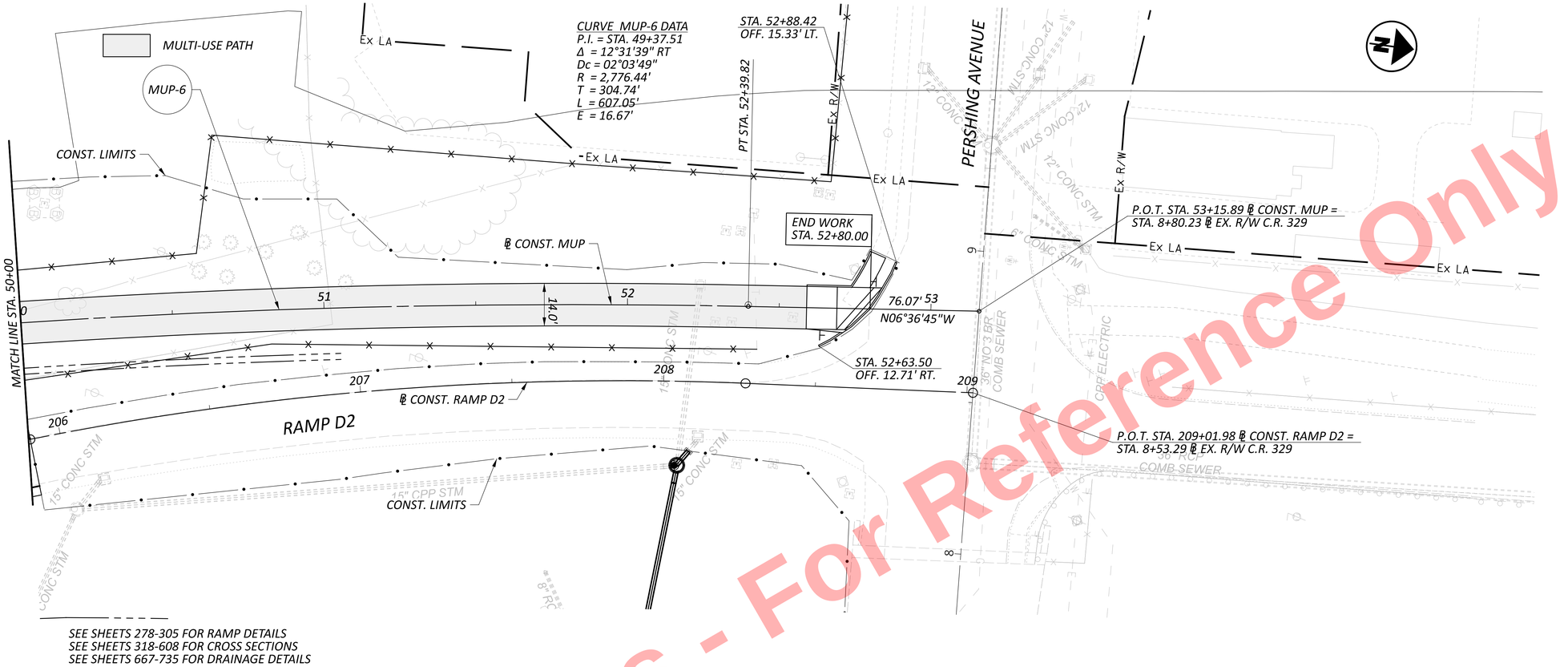
Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - MUP WEST
STA. 45+00.00 TO STA. 50+00.00

DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.346 TOTAL P.1269



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - MUP WEST
STA. 50+00.00 TO END

DESIGN AGENCY	HNTB
DESIGNER	KMM
REVIEWER	AS 11/05/25
PROJECT ID	105743
SHEET	P.347
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: MUP - Plan 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:25:17 PM USER: apendleton
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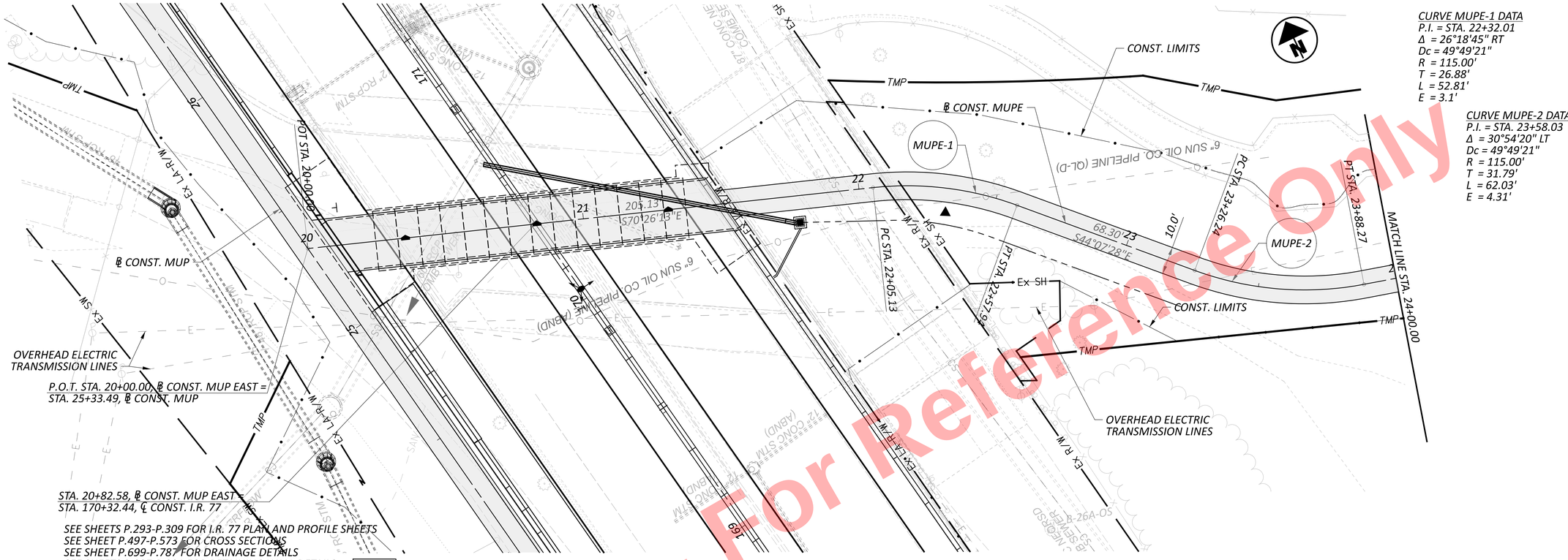


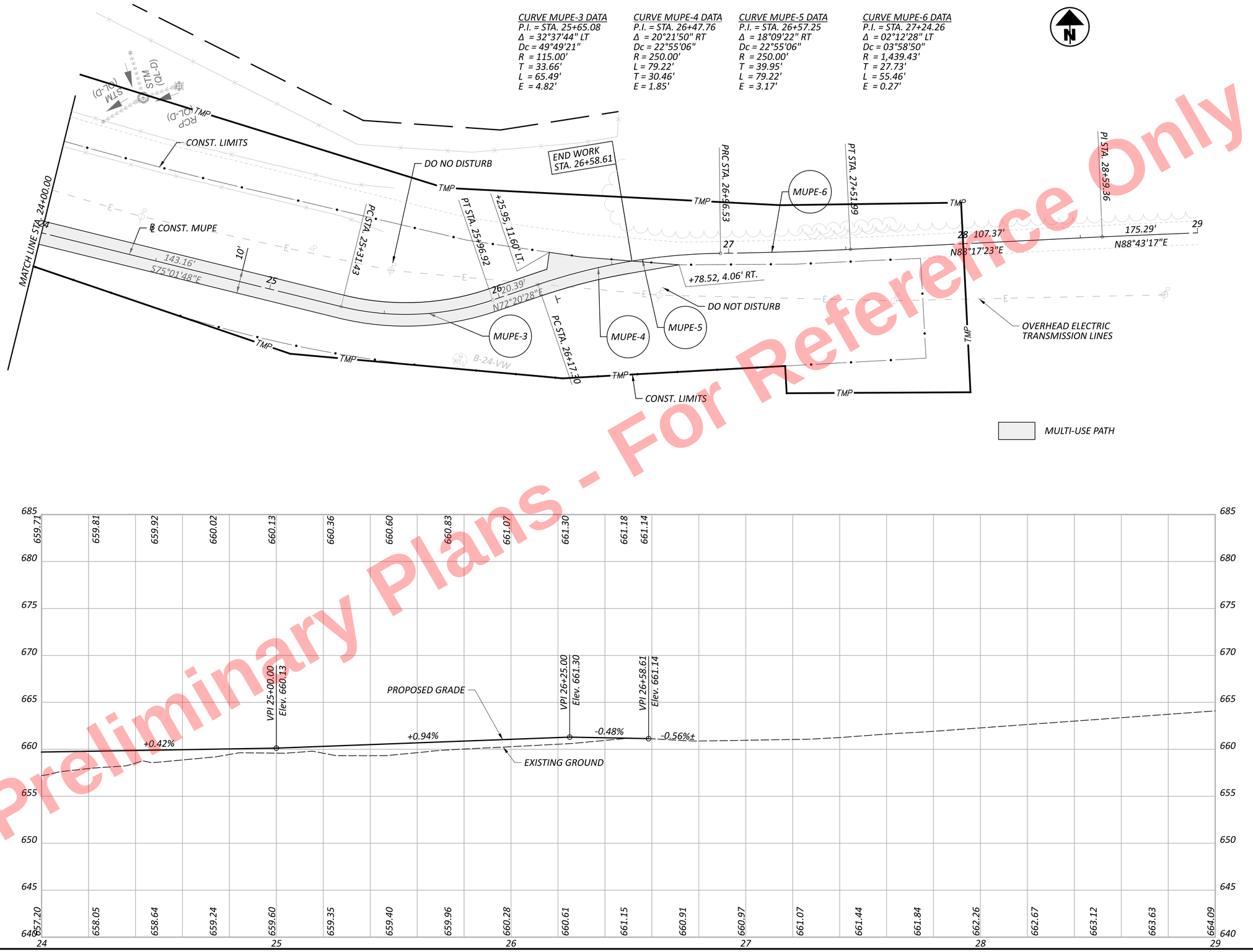
Preliminary Plans - For Reference Only

PLAN AND PROFILE - MUP EAST BEGIN TO STA. 24+00.00

CUY-77-11.41 - PART 1

MODEL: CLP_6 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:25:37 PM USER: apendleton
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GP702.dgn

DESIGN AGENCY: HNTB
DESIGNER: MTD
REVIEWER: KKP 04/04/22
PROJECT ID: 105743
SHEET: P.348 TOTAL: P.1269



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - MUP EAST
STA. 24+00.00 TO END

DESIGN AGENCY
HNTB

DESIGNER
MTD

REVIEWER
KKP 04/04/22

PROJECT ID
105743

SHEET P.349 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_6 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:25:42 PM USER: apendleton
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NOTE:

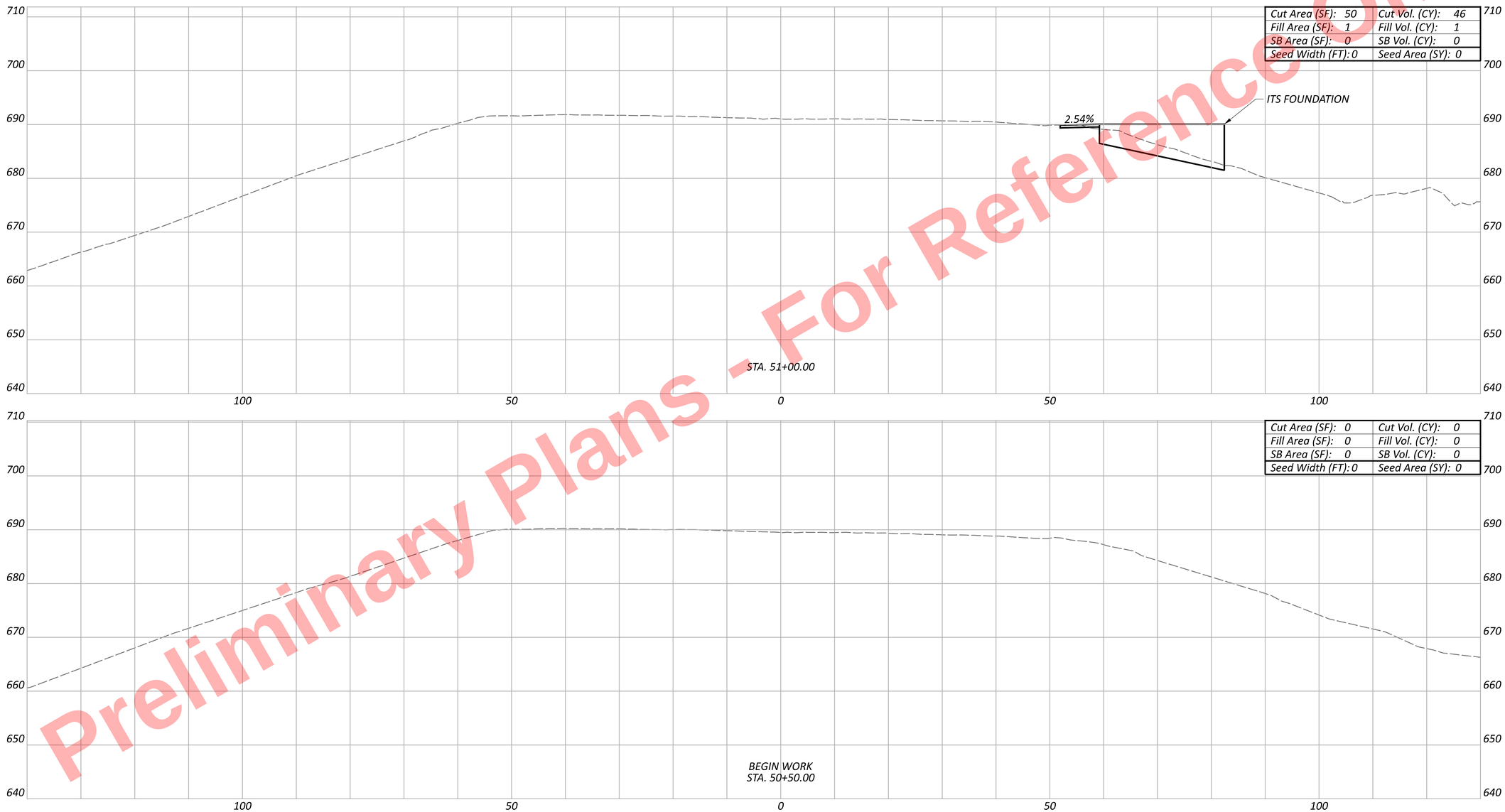
1. PAVEMENT SECTION REPRESENTS TOP OF PAVEMENT, TOP OF SUBGRADE, AND BOTTOM OF CEMENT STABILIZATION
2. SEE TYPICAL SECTION WHERE PGL APPLIES
3. XGL ELEVATION IS BASED ON THE GROUNDLINE AT THE CENTERLINE
4. UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED
5. DRAINAGE REMOVALS ARE NOTED ON THE DRAINAGE PLAN AND PROFILE SHEETS
6. LIGHTING CIRCUITS NOT SHOWN

LEGEND

INTERIM CONDITION SURFACE

ITEM 202 - PAVEMENT REMOVED

ITEM 206 - CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP



Cut Area (SF):	50	Cut Vol. (CY):	46
Fill Area (SF):	1	Fill Vol. (CY):	1
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0

Cut Area (SF):	0	Cut Vol. (CY):	0
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 50+50.00

DESIGN AGENCY
HNTB

DESIGNER

REVIEWER

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
0	46	1	0

SHEET	TOTAL
P.350	P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077_South - 50+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:28:51 AM USER: kperkins
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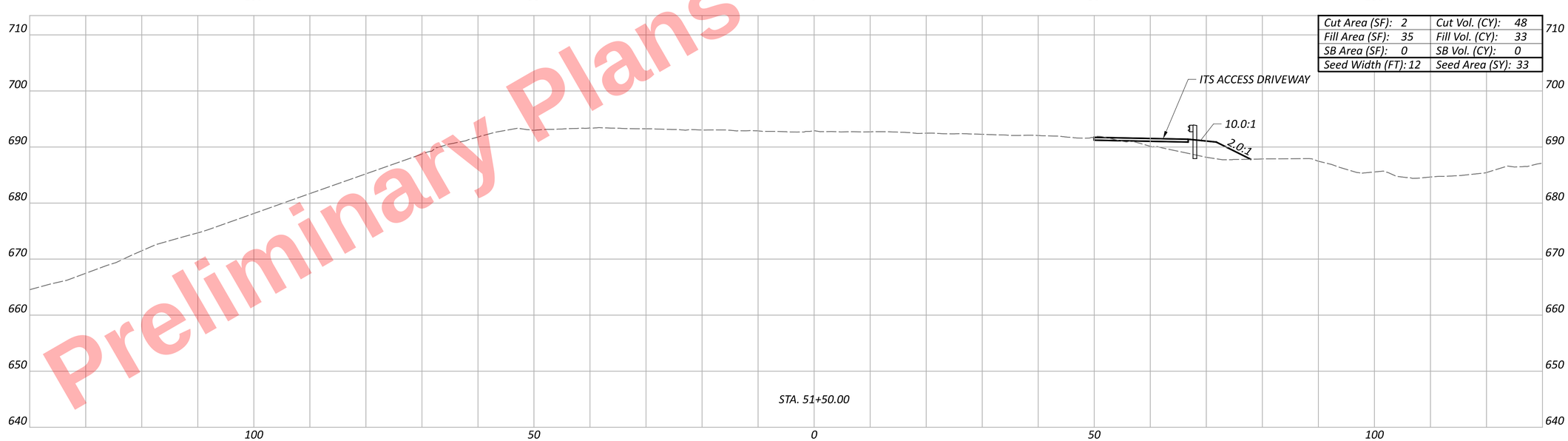
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077_South - 51+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:28:53 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 51+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
91	52	77	0

DESIGN AGENCY
HNTB

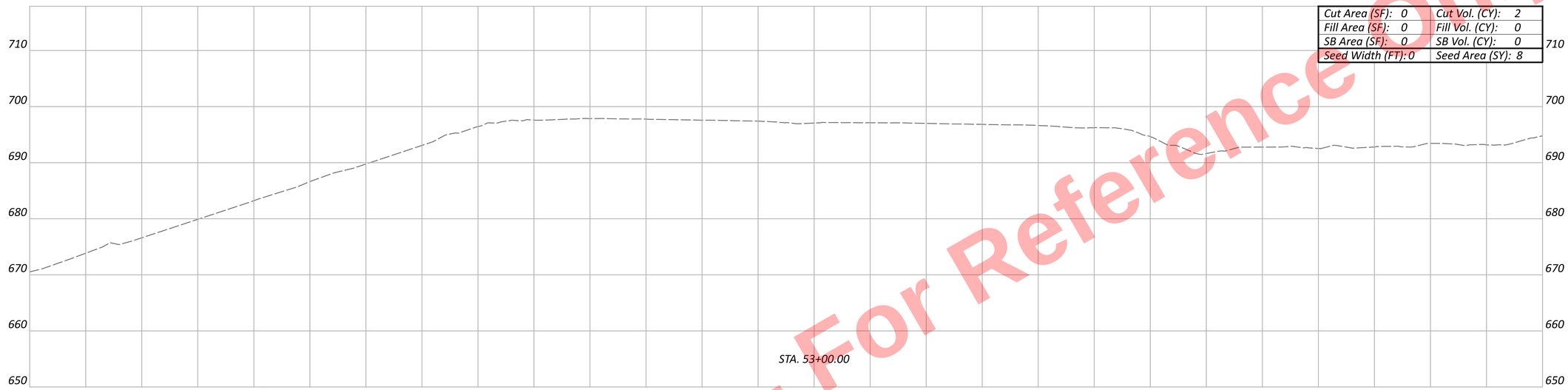
DESIGNER

REVIEWER

PROJECT ID
105743

SHEET P.351 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 52+50.00

DESIGN AGENCY
HNTB

DESIGNER

REVIEWER

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
41	6	12	0

SHEET	TOTAL
P.352	P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077_South - 52+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:28:53 AM USER: kperkins
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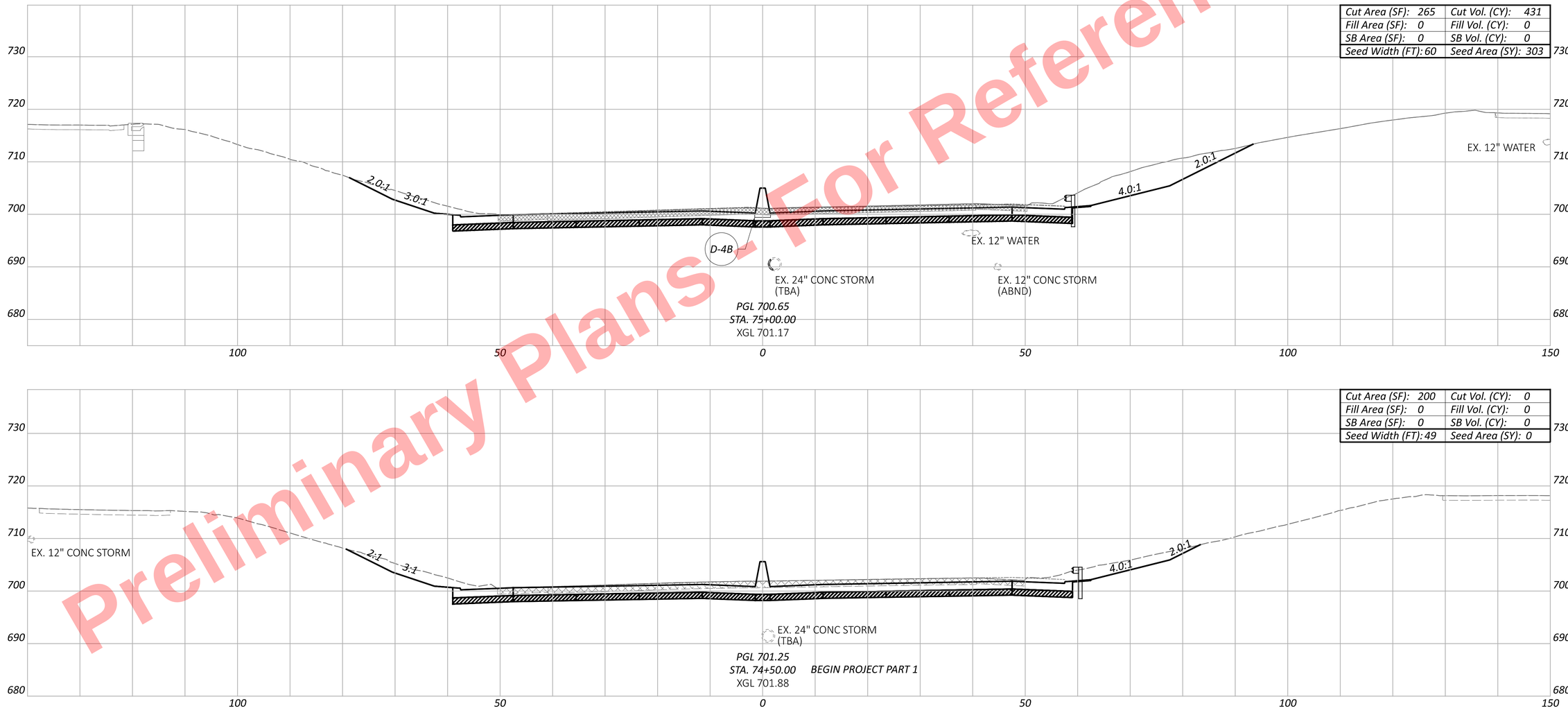
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	265	Cut Vol. (CY):	431
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	60	Seed Area (SY):	303

Cut Area (SF):	200	Cut Vol. (CY):	0
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	49	Seed Area (SY):	0

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Begin PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:29:04 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 75+00.00 TO BEGIN WORK

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
303	431	0	0

DESIGN AGENCY
HNTB

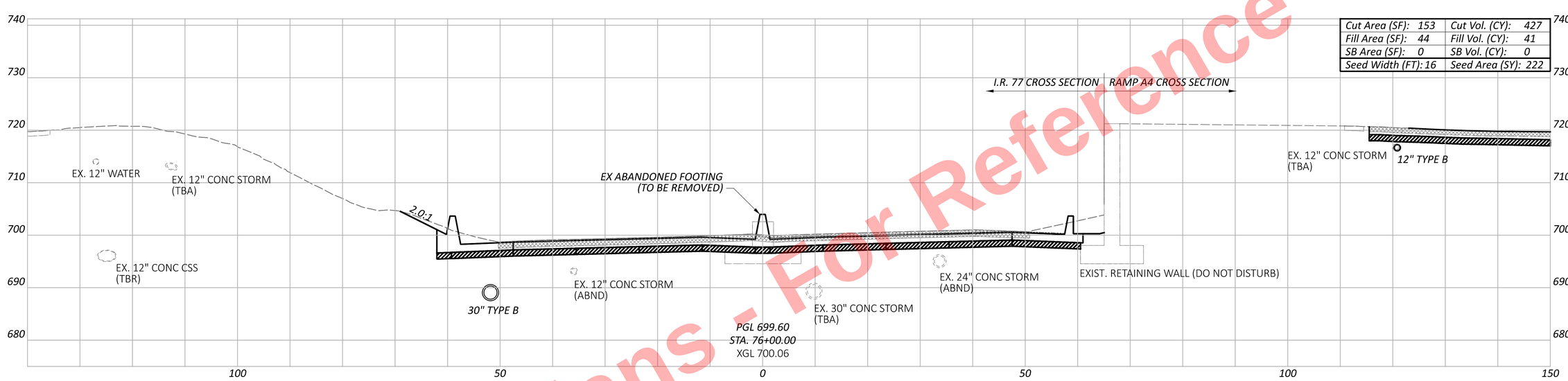
DESIGNER
AS

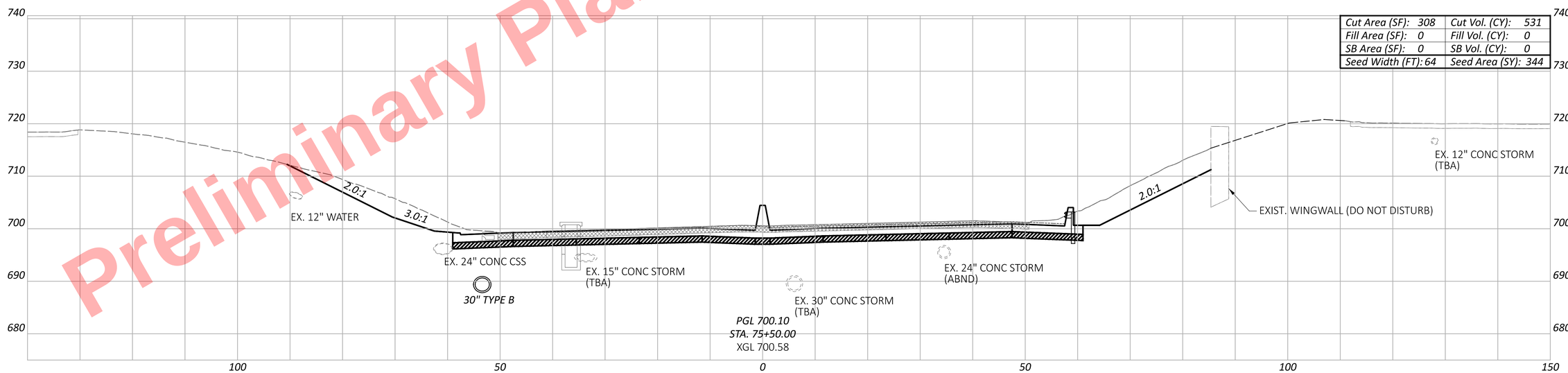
REVIEWER
KKP 04/04/22

PROJECT ID
105743

SHEET P.353 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 75+50.00 TO STA. 76+00.00

DESIGN AGENCY
HNTB

DESIGNER	REVIEWER	PROJECT ID
EAP	MTR 04/01/22	105743

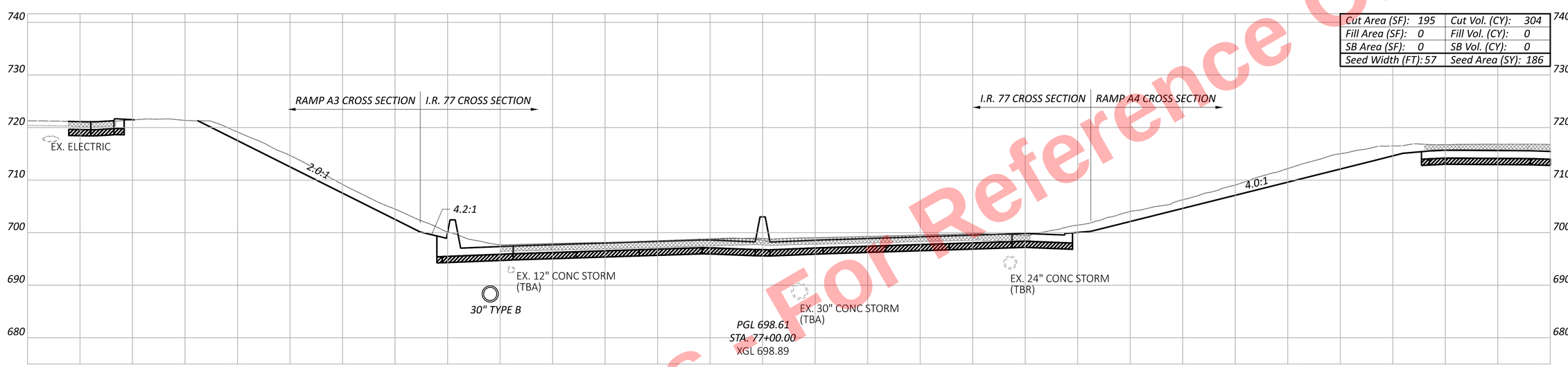
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
566	958	41	0

SHEET P.354 | TOTAL P.1269

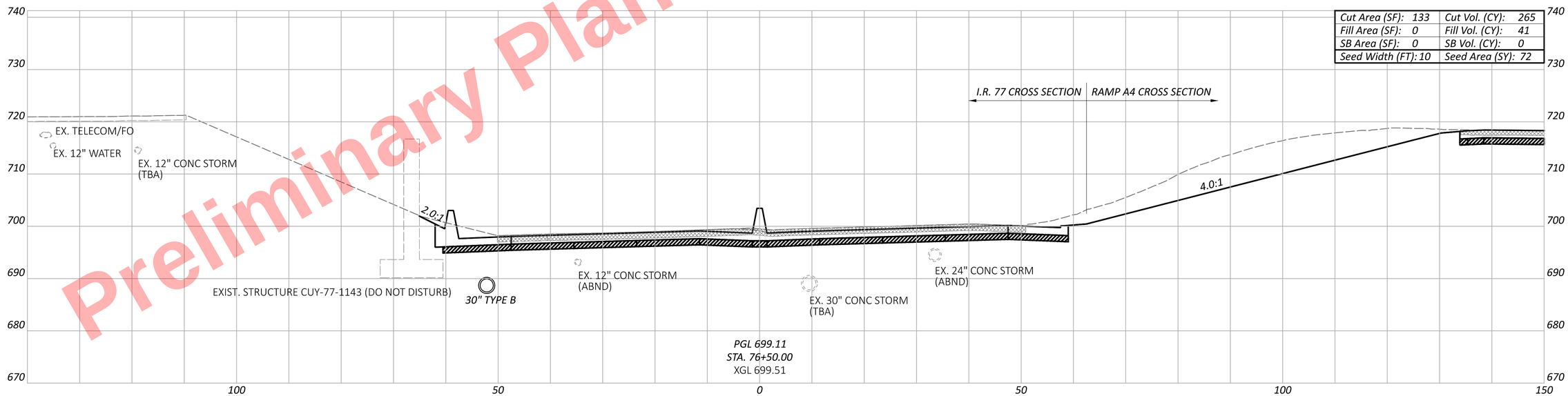
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 75+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:29:09 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\v400-Engineering\Roadway\Sheets\105743_XS101.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	195	Cut Vol. (CY):	304
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	57	Seed Area (SY):	186



Cut Area (SF):	133	Cut Vol. (CY):	265
Fill Area (SF):	0	Fill Vol. (CY):	41
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	10	Seed Area (SY):	72

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 76+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:29:17 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 76+50.00 TO STA. 77+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
258	569	41	0

DESIGN AGENCY
HNTB

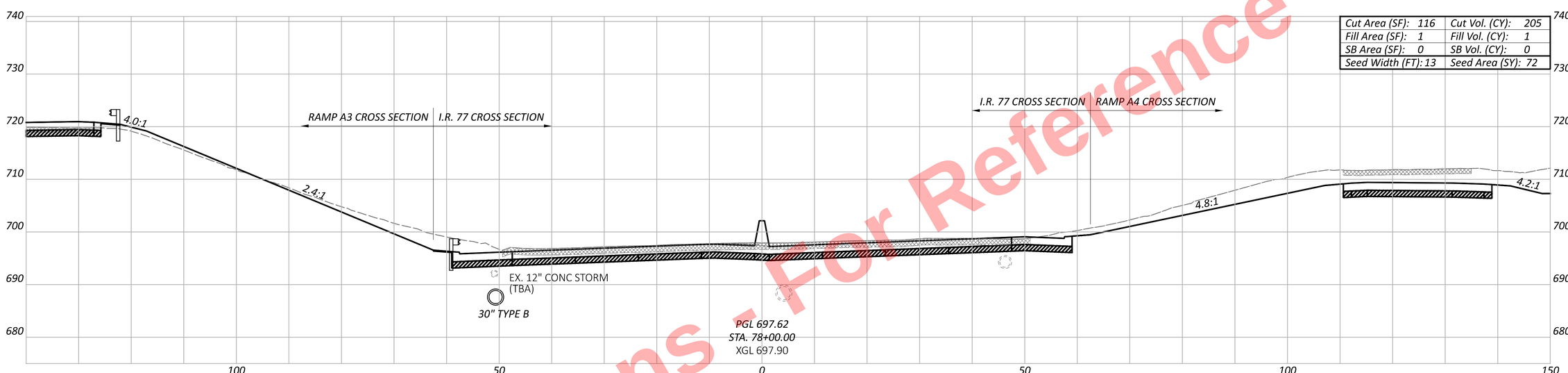
DESIGNER
EAP

REVIEWER
MTR 04/01/22

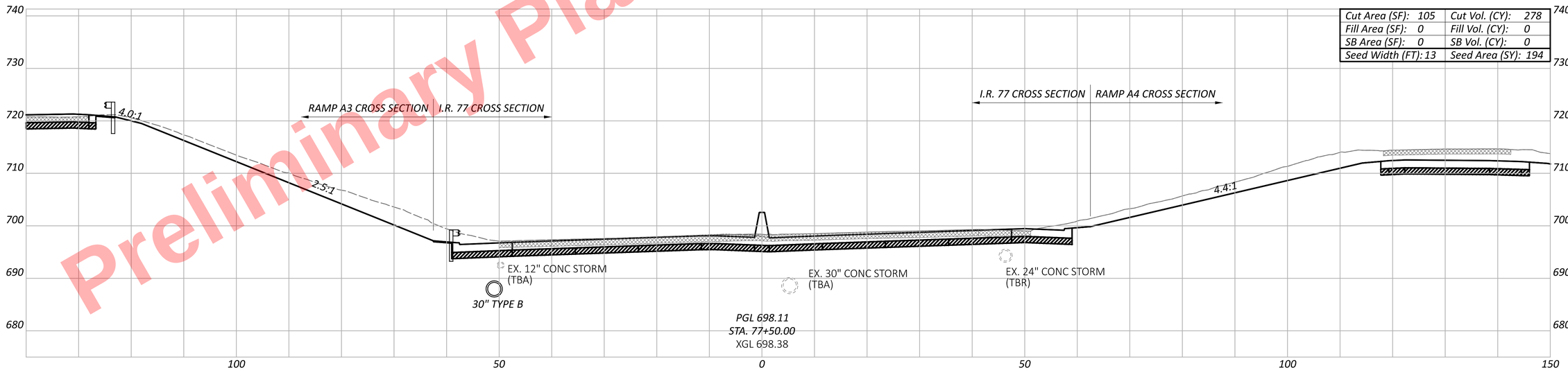
PROJECT ID
105743

SHEET P.355 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	116	Cut Vol. (CY):	205
Fill Area (SF):	1	Fill Vol. (CY):	1
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	13	Seed Area (SY):	72



Cut Area (SF):	105	Cut Vol. (CY):	278
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	13	Seed Area (SY):	194

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 77+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:29:23 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 77+50.00 TO STA. 78+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
266	483	1	0

DESIGN AGENCY
HNTB

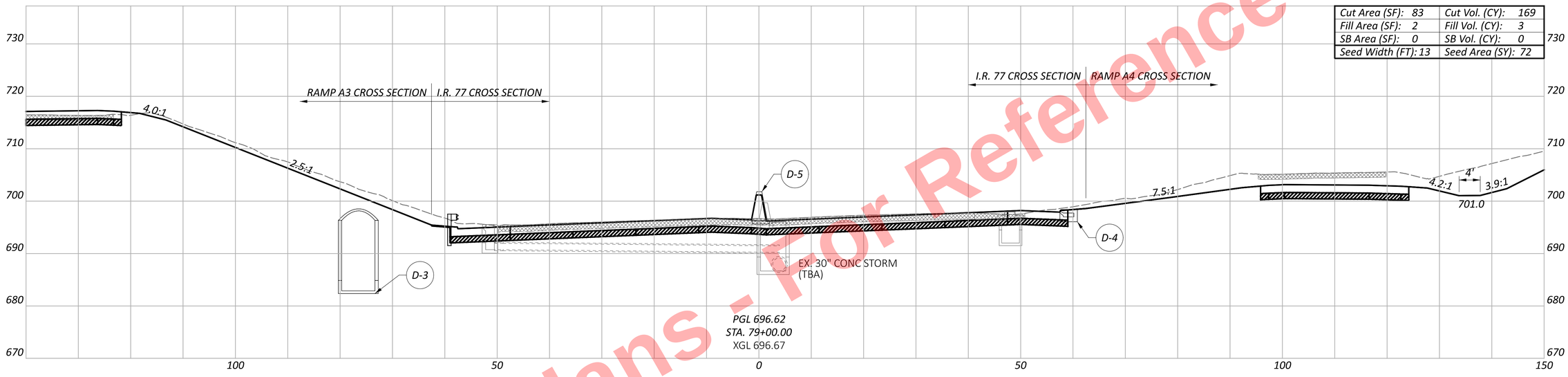
DESIGNER
EAP

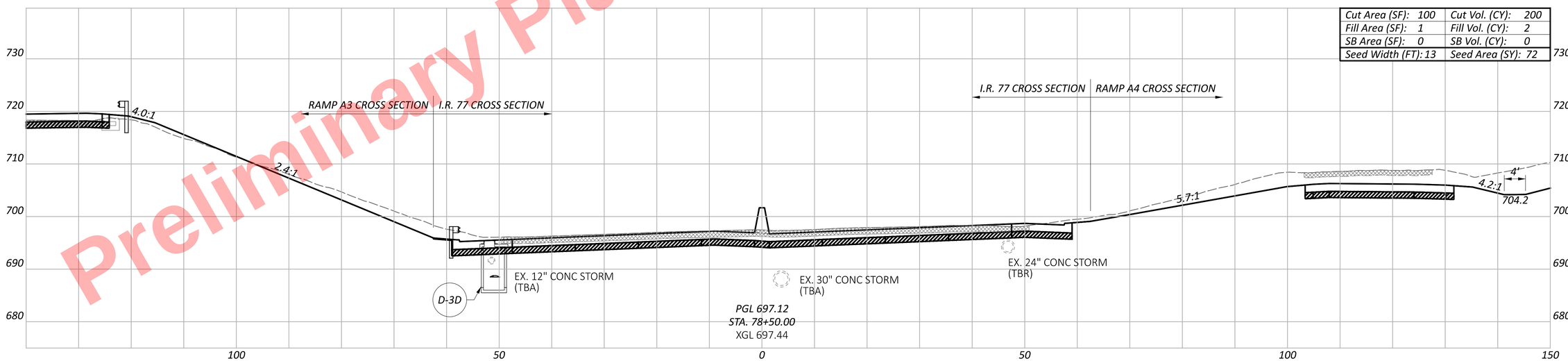
REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.356 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 78+50.00 TO STA. 79+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
144	369	5	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.357 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 78+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:29:30 AM USER: kperkins
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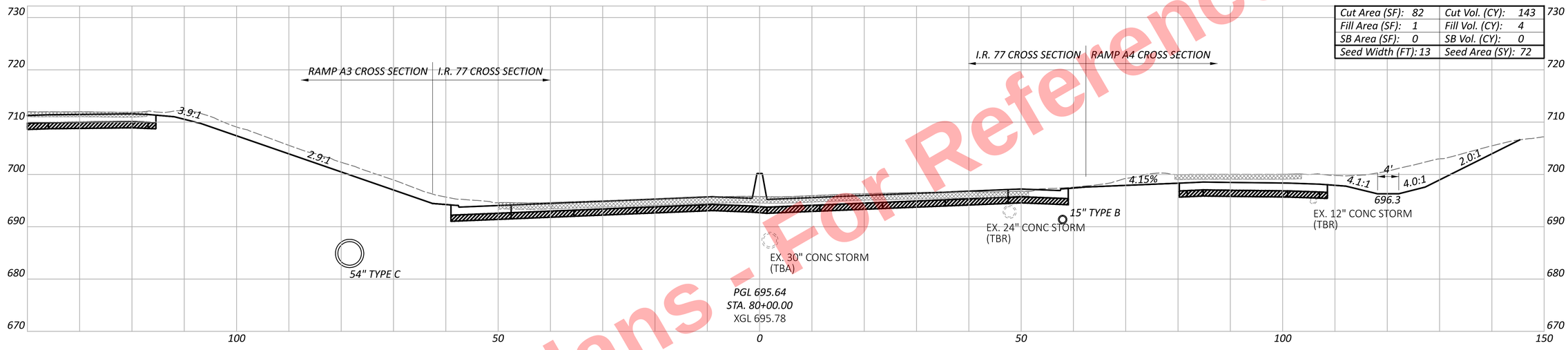
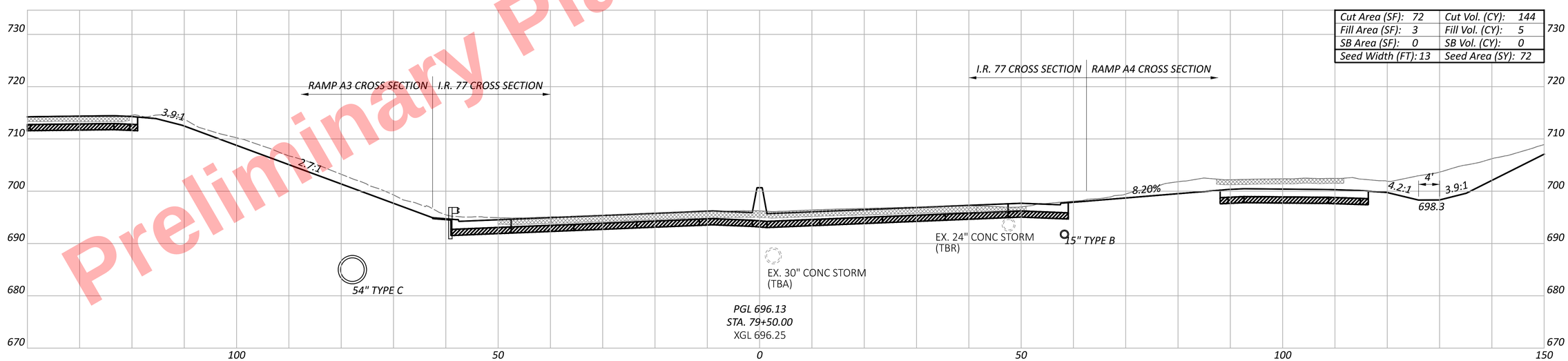
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	82	Cut Vol. (CY):	143
Fill Area (SF):	1	Fill Vol. (CY):	4
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	13	Seed Area (SY):	72



Cut Area (SF):	72	Cut Vol. (CY):	144
Fill Area (SF):	3	Fill Vol. (CY):	5
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	13	Seed Area (SY):	72

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 79+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:29:37 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 79+50.00 TO STA. 80+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
144	287	9	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

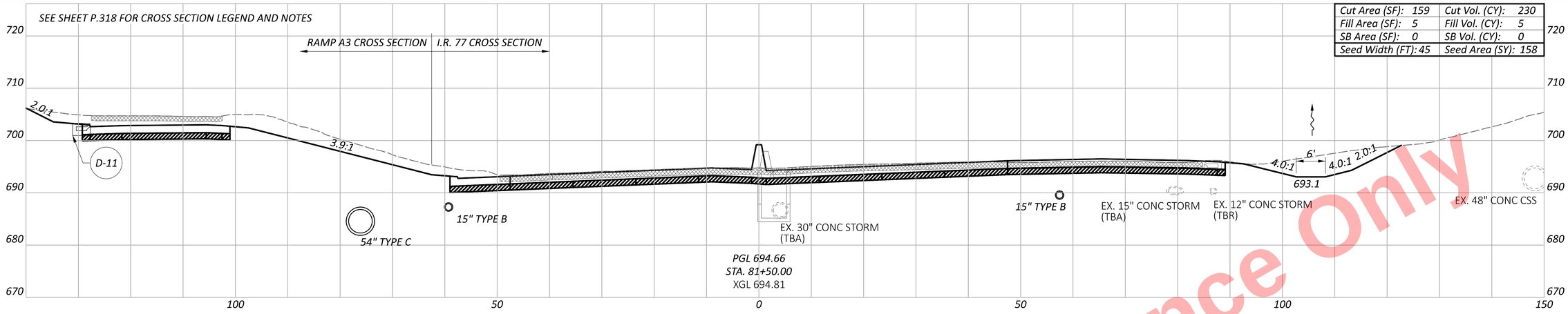
REVIEWER
MTR 04/01/22

PROJECT ID
105743

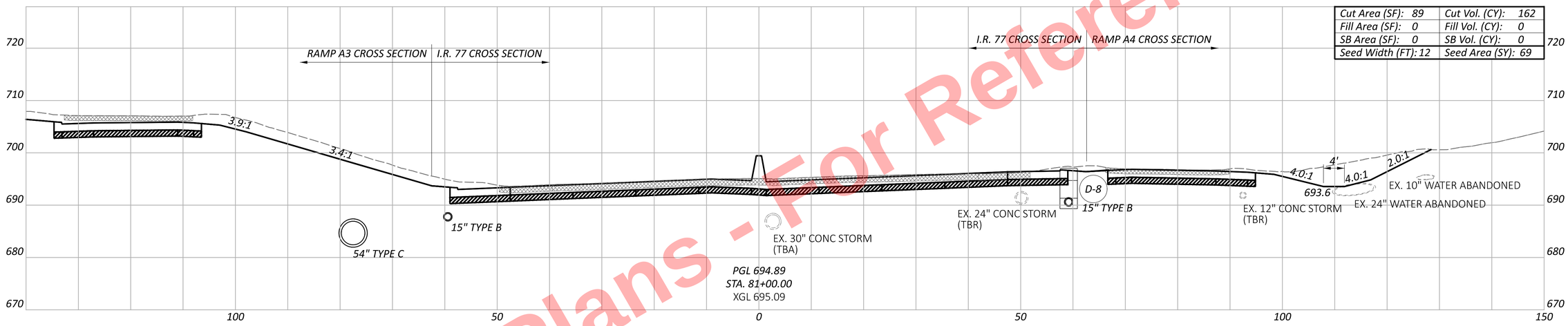
SHEET P.358 TOTAL P.1269

Preliminary Plans - For Reference Only

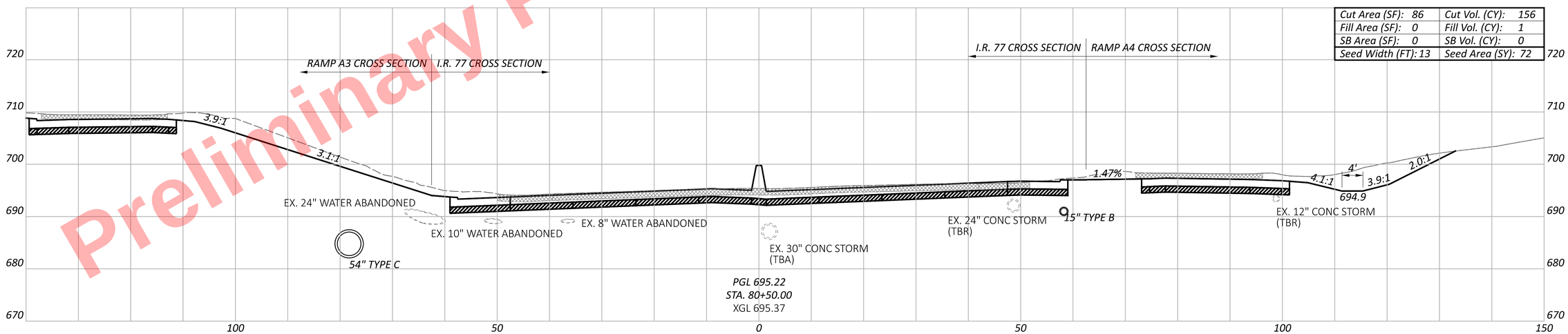
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	159	Cut Vol. (CY):	230
Fill Area (SF):	5	Fill Vol. (CY):	5
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	45	Seed Area (SY):	158



Cut Area (SF):	89	Cut Vol. (CY):	162
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	12	Seed Area (SY):	69



Cut Area (SF):	86	Cut Vol. (CY):	156
Fill Area (SF):	0	Fill Vol. (CY):	1
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	13	Seed Area (SY):	72

CROSS SECTIONS - I.R. 77
STA. 80+50.0 TO STA. 81+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
299	548	6	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.359 | TOTAL P.1269

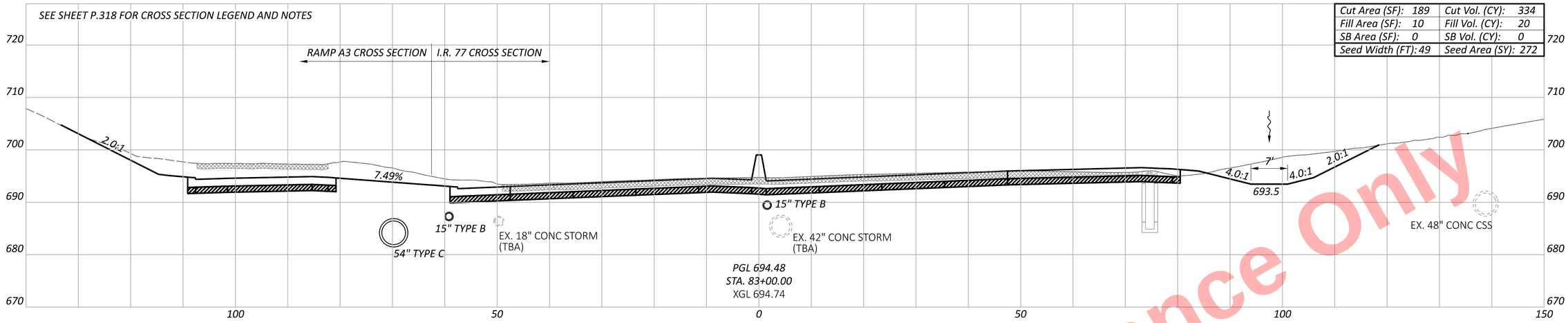
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 80+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:29:43 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

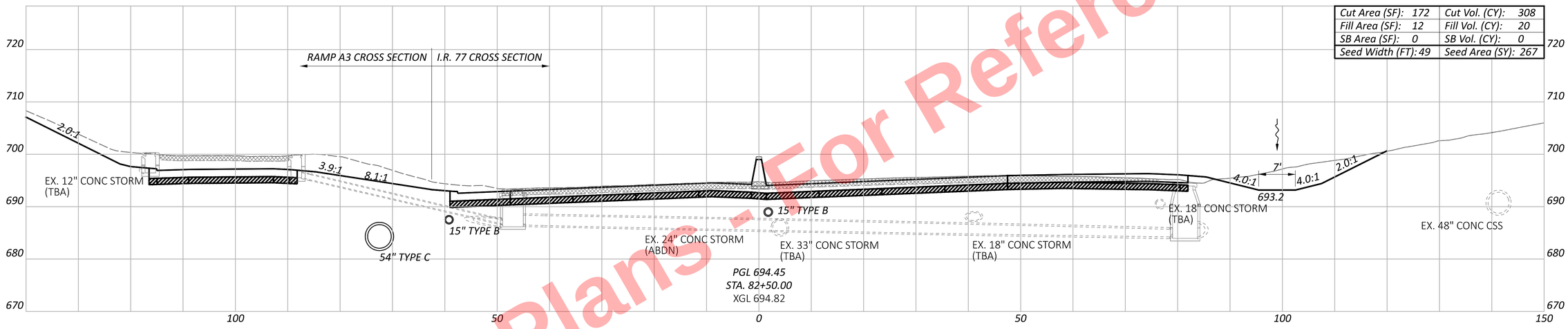
Preliminary Plans - For Reference Only

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

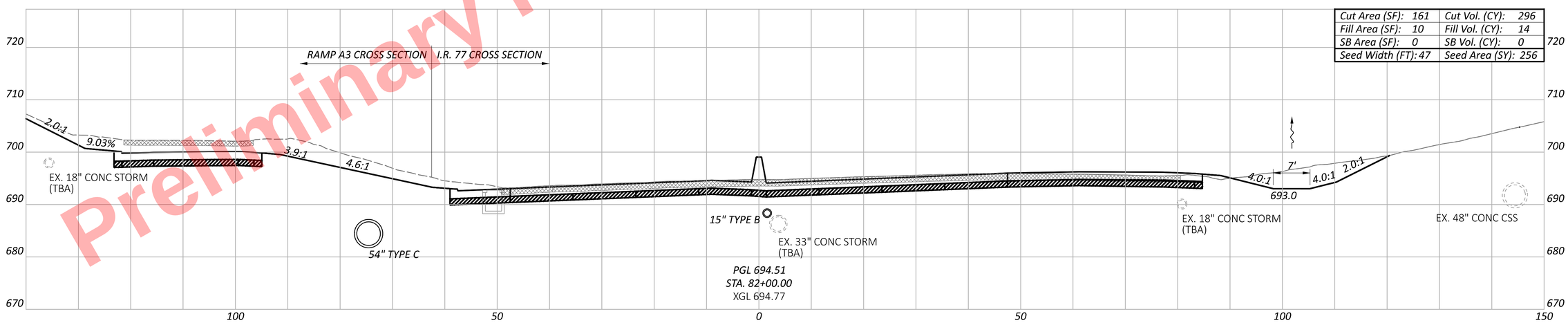
Cut Area (SF):	189	Cut Vol. (CY):	334
Fill Area (SF):	10	Fill Vol. (CY):	20
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	49	Seed Area (SY):	272



Cut Area (SF):	172	Cut Vol. (CY):	308
Fill Area (SF):	12	Fill Vol. (CY):	20
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	49	Seed Area (SY):	267



Cut Area (SF):	161	Cut Vol. (CY):	296
Fill Area (SF):	10	Fill Vol. (CY):	14
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	47	Seed Area (SY):	256



CROSS SECTIONS - I.R. 77
STA. 82+00.00 TO STA. 83+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
795	938	54	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

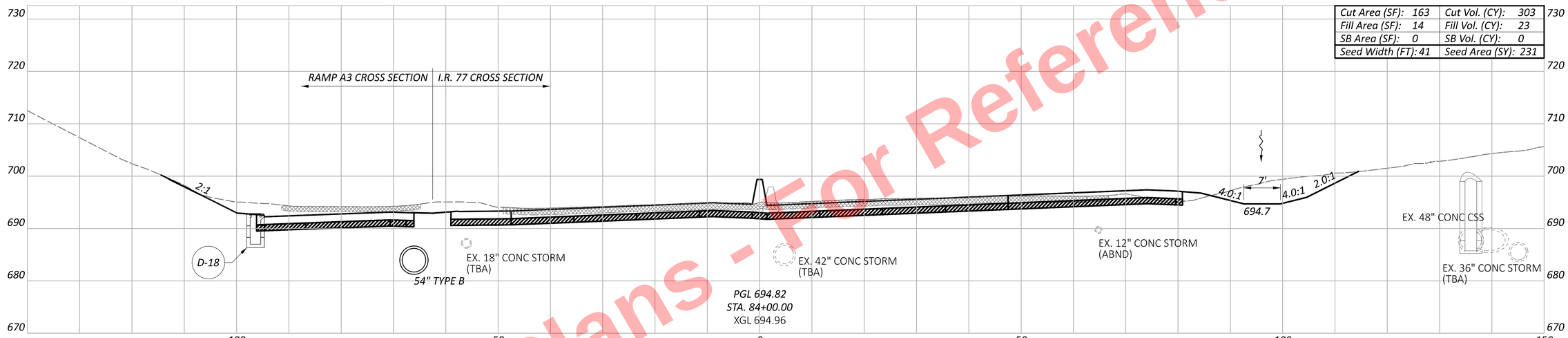
PROJECT ID
105743

SHEET P.360 TOTAL P.1269

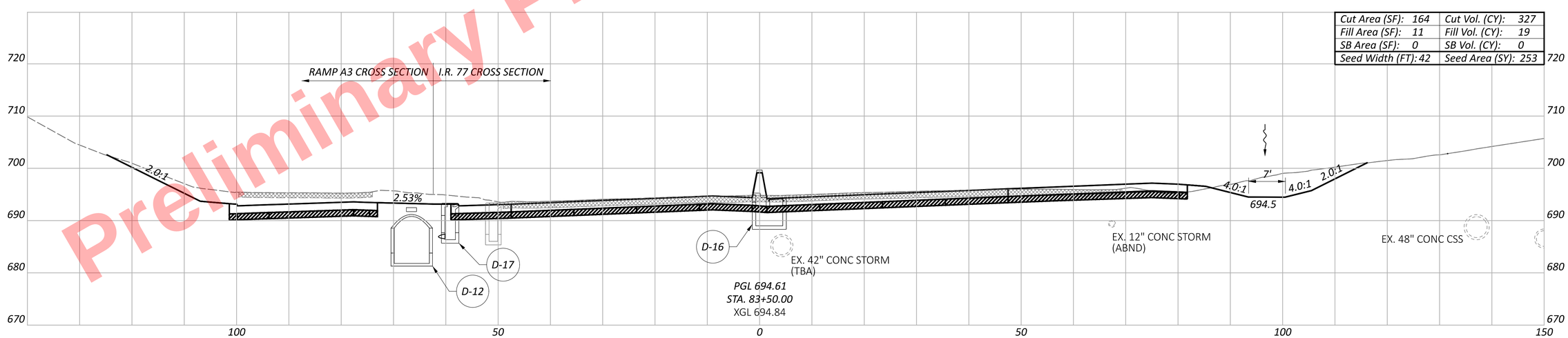
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 82+00.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:29:52 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	163	Cut Vol. (CY):	303
Fill Area (SF):	14	Fill Vol. (CY):	23
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	41	Seed Area (SY):	231



Cut Area (SF):	164	Cut Vol. (CY):	327
Fill Area (SF):	11	Fill Vol. (CY):	19
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	42	Seed Area (SY):	253

Preliminary Plans - Not For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 83+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:30:01 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

CROSS SECTIONS - I.R. 77
STA. 83+50.00 TO STA. 84+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
484	630	42	0

DESIGN AGENCY
HNTB

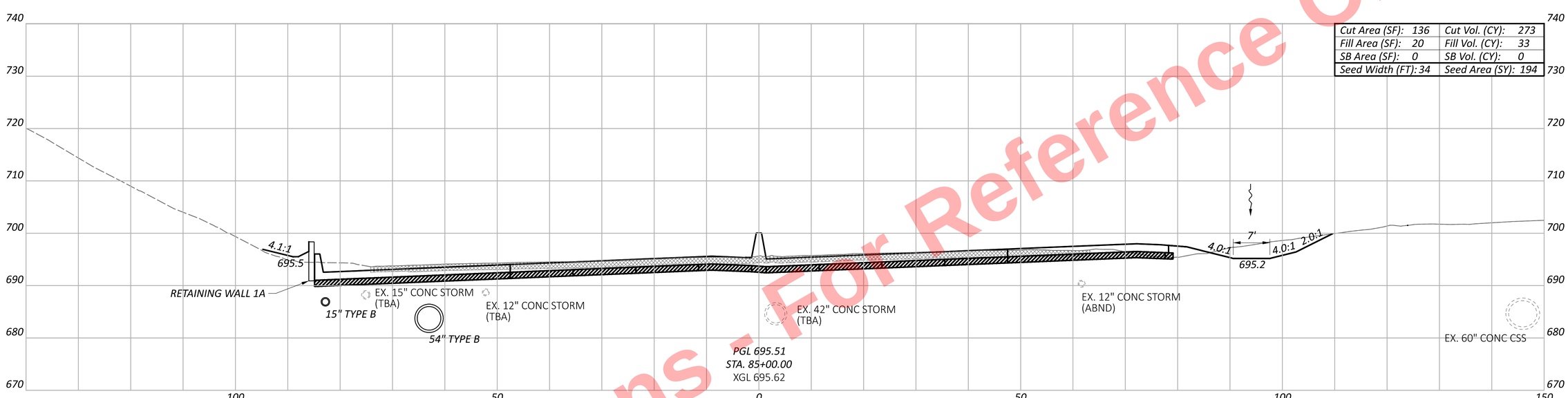
DESIGNER
EAP

REVIEWER
MTR 04/01/22

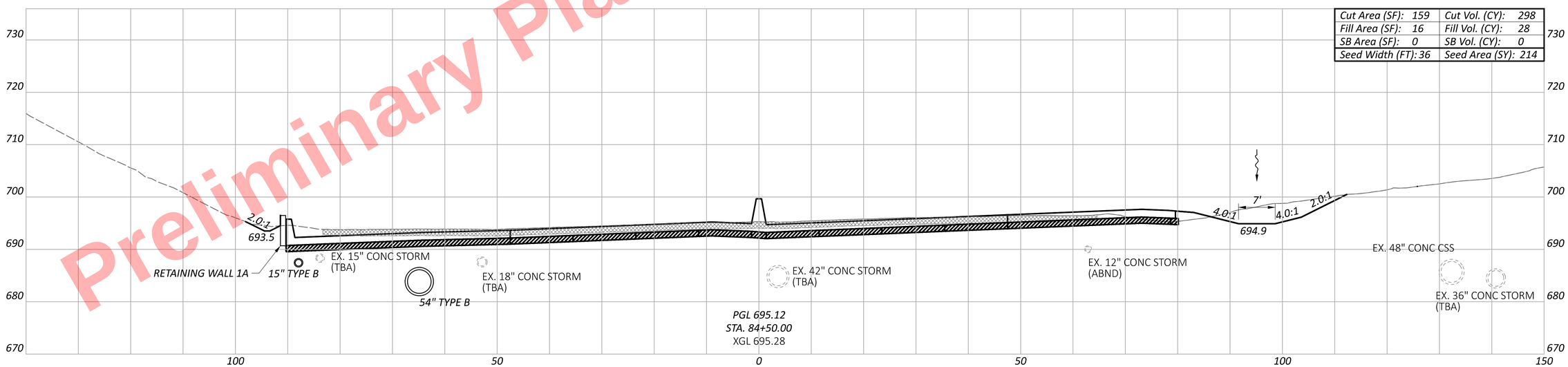
PROJECT ID
105743

SHEET P.361 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 136	Cut Vol. (CY): 273
Fill Area (SF): 20	Fill Vol. (CY): 33
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 34	Seed Area (SY): 194



Cut Area (SF): 159	Cut Vol. (CY): 298
Fill Area (SF): 16	Fill Vol. (CY): 28
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 36	Seed Area (SY): 214

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

CROSS SECTIONS - I.R. 77
STA. 84+50.00 TO STA. 85+00.00

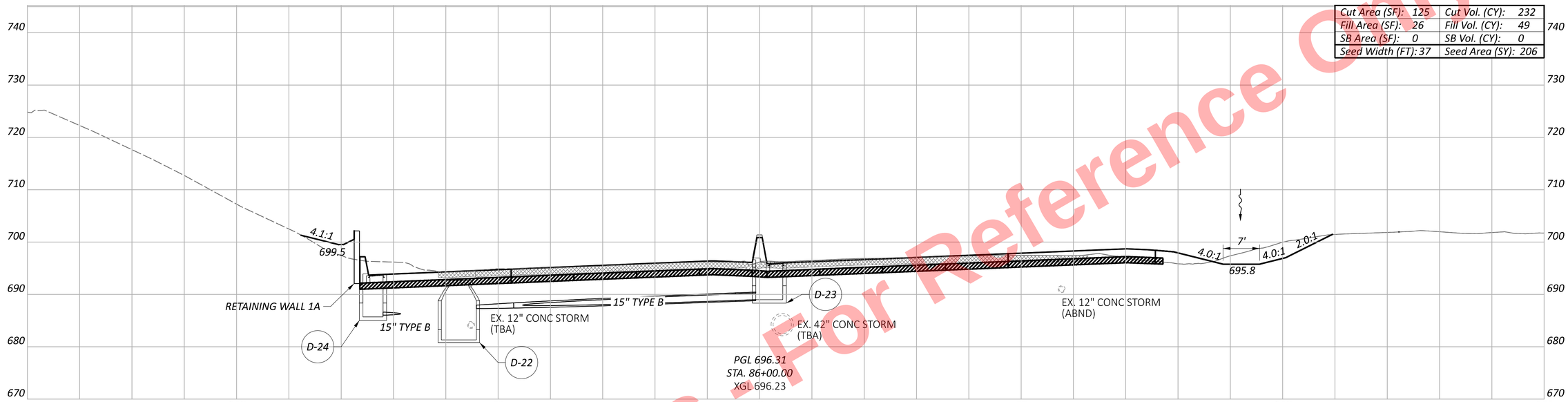
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
408	571	61	0

DESIGN AGENCY
HNTB

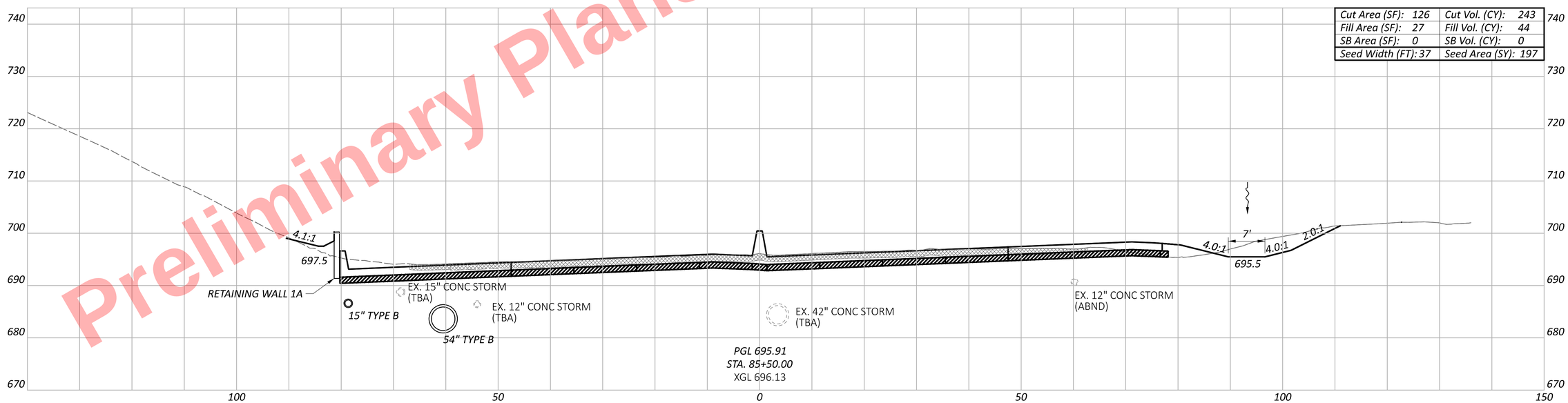
DESIGNER EAP
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.362 TOTAL P.1269

MODEL: CLP_I077 - 84+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:30:08 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	125	Cut Vol. (CY):	232
Fill Area (SF):	26	Fill Vol. (CY):	49
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	37	Seed Area (SY):	206



Cut Area (SF):	126	Cut Vol. (CY):	243
Fill Area (SF):	27	Fill Vol. (CY):	44
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	37	Seed Area (SY):	197

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 85+50.00 TO STA. 86+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
403	475	93	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

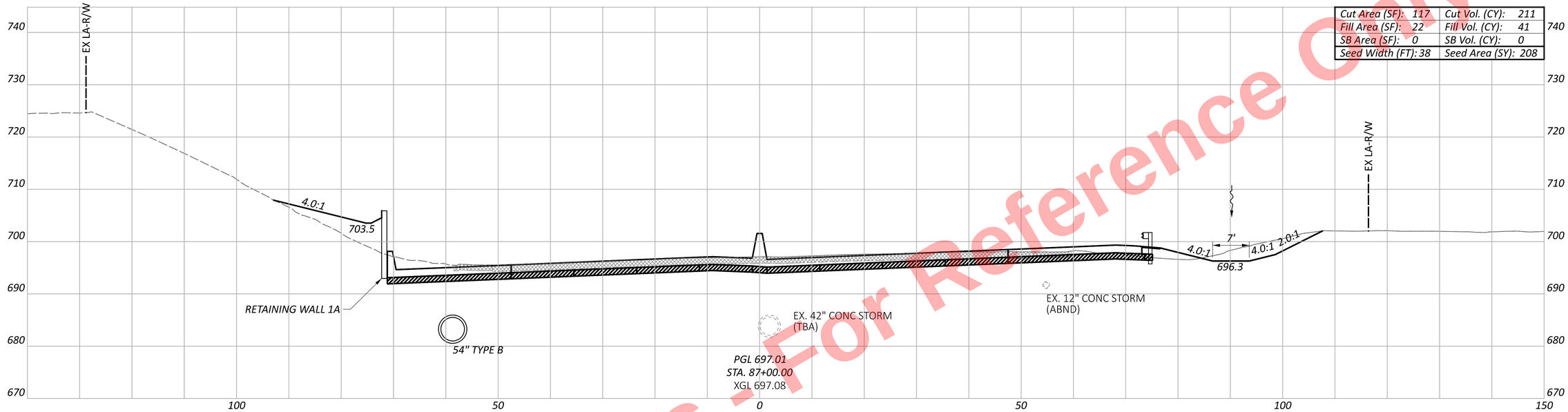
PROJECT ID
105743

SHEET P.363 TOTAL P.1269

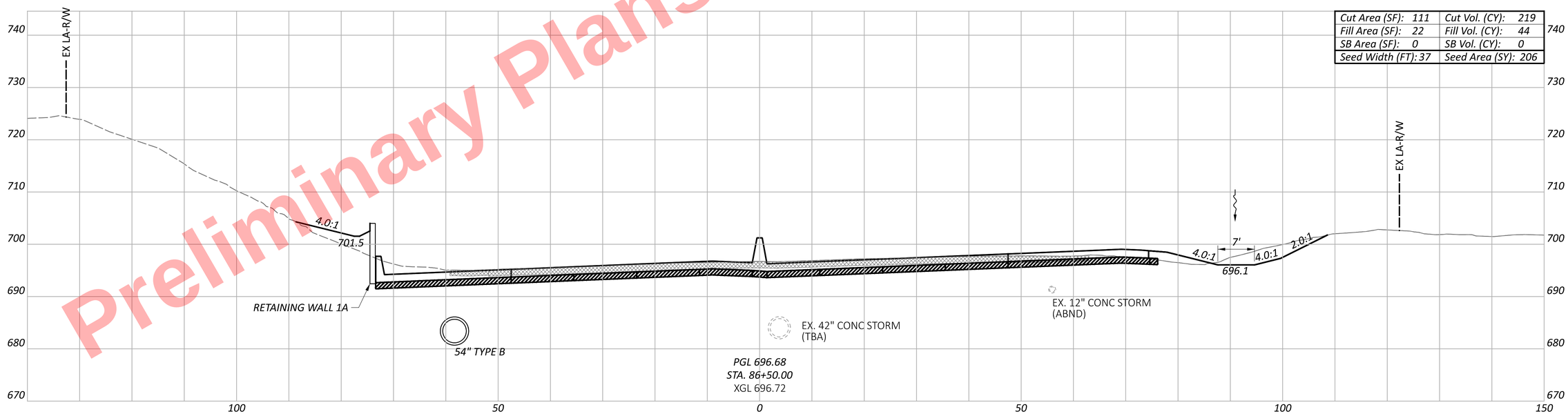
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 85+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:30:14 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	117	Cut Vol. (CY):	211
Fill Area (SF):	22	Fill Vol. (CY):	41
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	38	Seed Area (SY):	208



Cut Area (SF):	111	Cut Vol. (CY):	219
Fill Area (SF):	22	Fill Vol. (CY):	44
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	37	Seed Area (SY):	206

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 86+50.00 TO STA. 87+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
414	430	85	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

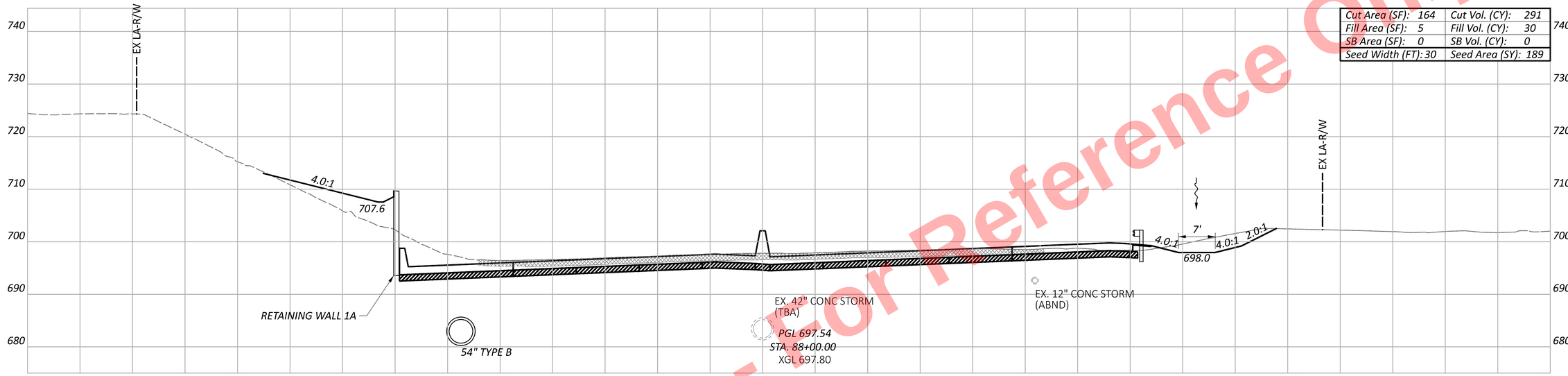
PROJECT ID
105743

SHEET P.364 TOTAL P.1269

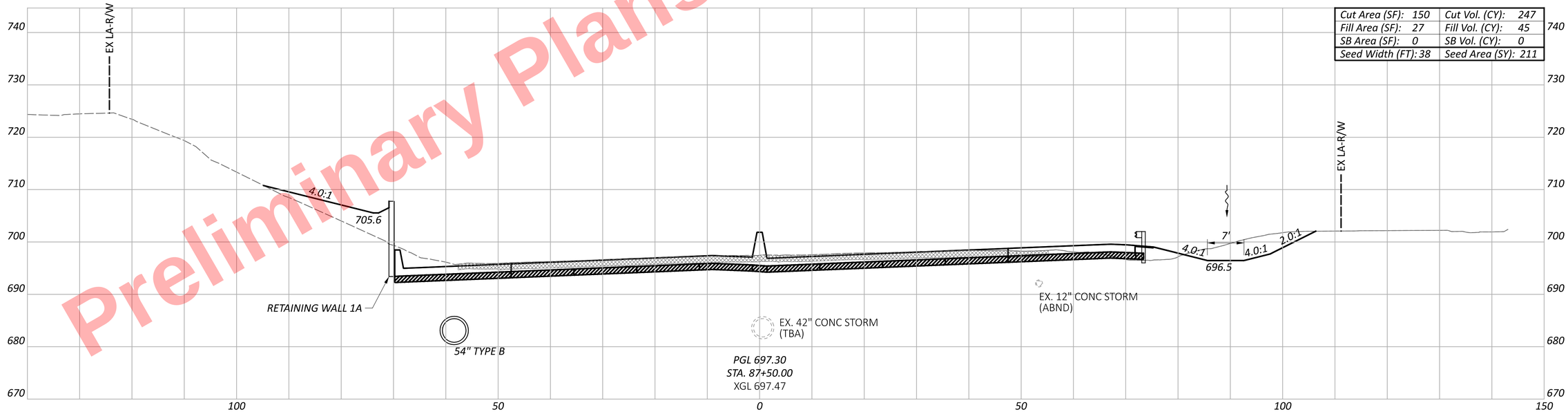
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 86+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:30:20 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_XS101.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	164	Cut Vol. (CY):	291
Fill Area (SF):	5	Fill Vol. (CY):	30
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	30	Seed Area (SY):	189



Cut Area (SF):	150	Cut Vol. (CY):	247
Fill Area (SF):	27	Fill Vol. (CY):	45
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	38	Seed Area (SY):	211

Preliminary Plans - Not For Reference Only

CROSS SECTIONS - I.R. 77
STA. 87+50.00 TO STA. 88+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
400	538	75	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

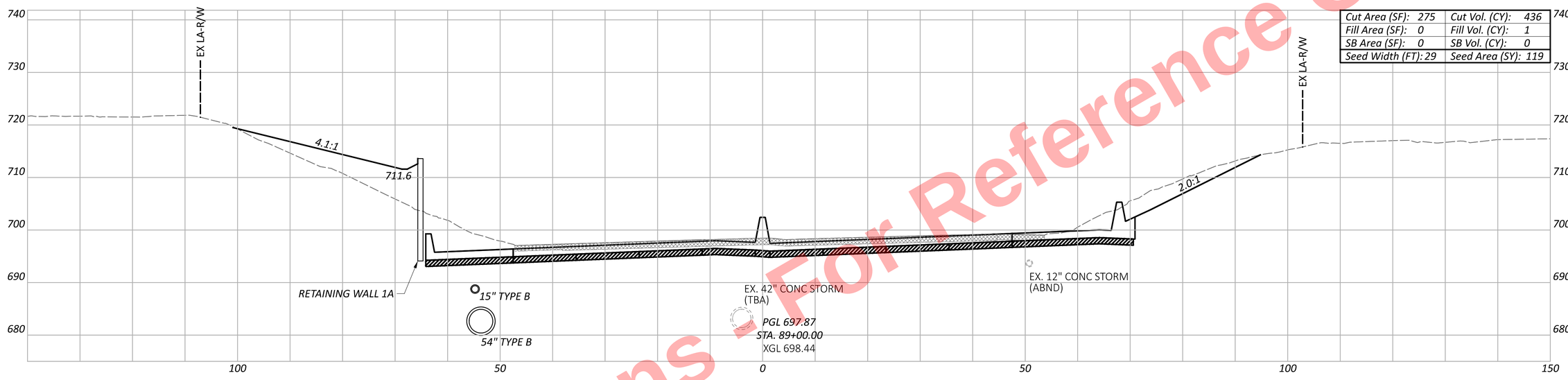
PROJECT ID
105743

SHEET P.365 TOTAL P.1269

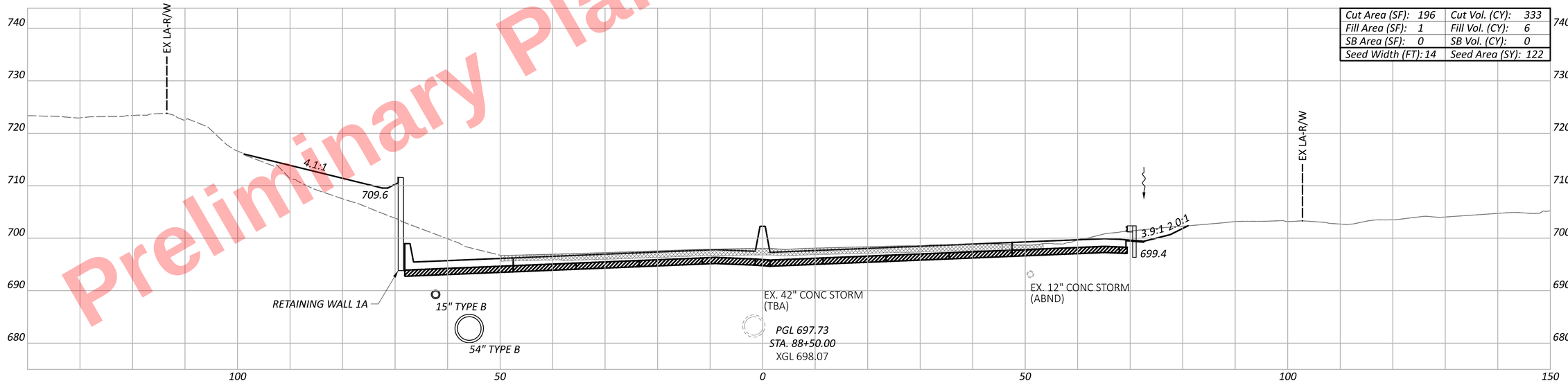
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 87+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:30:26 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 275	Cut Vol. (CY): 436
Fill Area (SF): 0	Fill Vol. (CY): 1
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 29	Seed Area (SY): 119



Cut Area (SF): 196	Cut Vol. (CY): 333
Fill Area (SF): 1	Fill Vol. (CY): 6
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 14	Seed Area (SY): 122

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 88+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:30:32 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 88+50.00 TO STA. 89+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

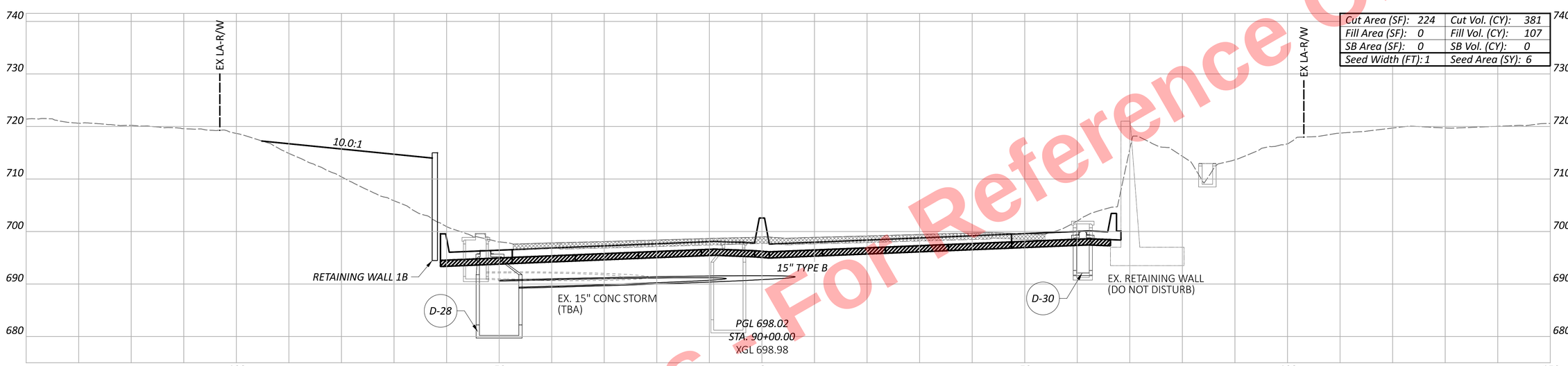
REVIEWER
MTR 04/01/22

PROJECT ID
105743

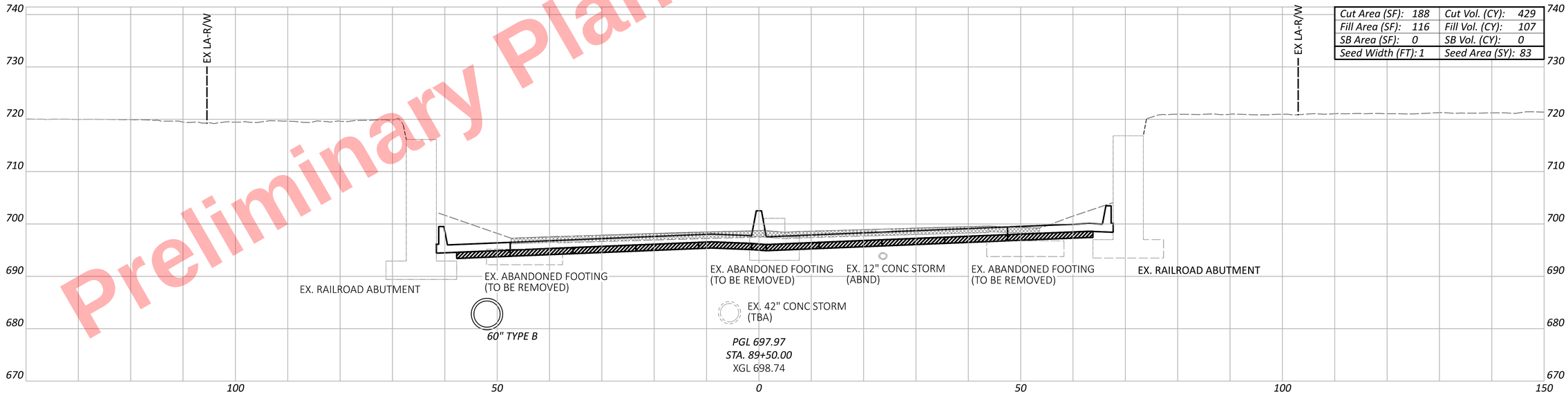
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
241	769	7	0

SHEET	TOTAL
P.366	P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	224	Cut Vol. (CY):	381
Fill Area (SF):	0	Fill Vol. (CY):	107
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	1	Seed Area (SY):	6



Cut Area (SF):	188	Cut Vol. (CY):	429
Fill Area (SF):	116	Fill Vol. (CY):	107
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	1	Seed Area (SY):	83

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 89+50.00 TO STA. 90+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
89	810	214	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

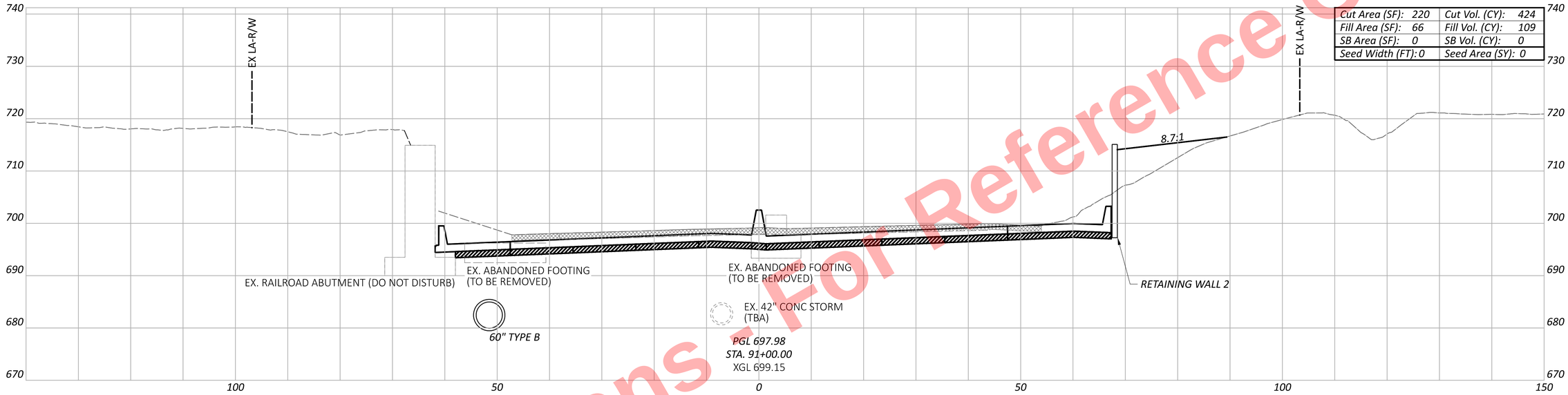
PROJECT ID
105743

SHEET P.367 TOTAL P.1269

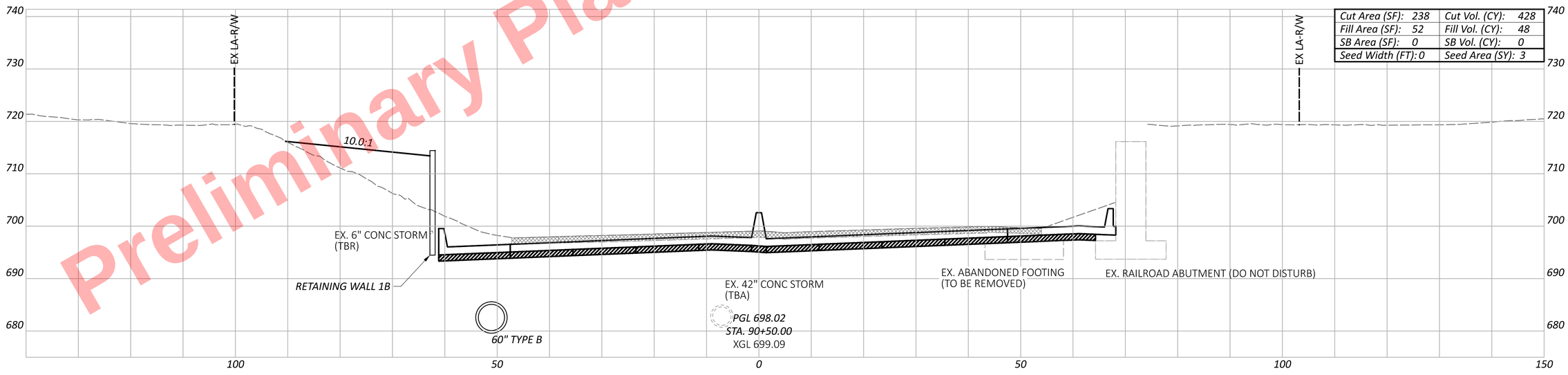
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 89+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:30:38 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\S - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	220	Cut Vol. (CY):	424
Fill Area (SF):	66	Fill Vol. (CY):	109
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0



Cut Area (SF):	238	Cut Vol. (CY):	428
Fill Area (SF):	52	Fill Vol. (CY):	48
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	3

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 90+50.00 TO STA. 91+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
3	852	157	0

SHEET	TOTAL
P.368	P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 90+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:30:45 AM USER: kperkins
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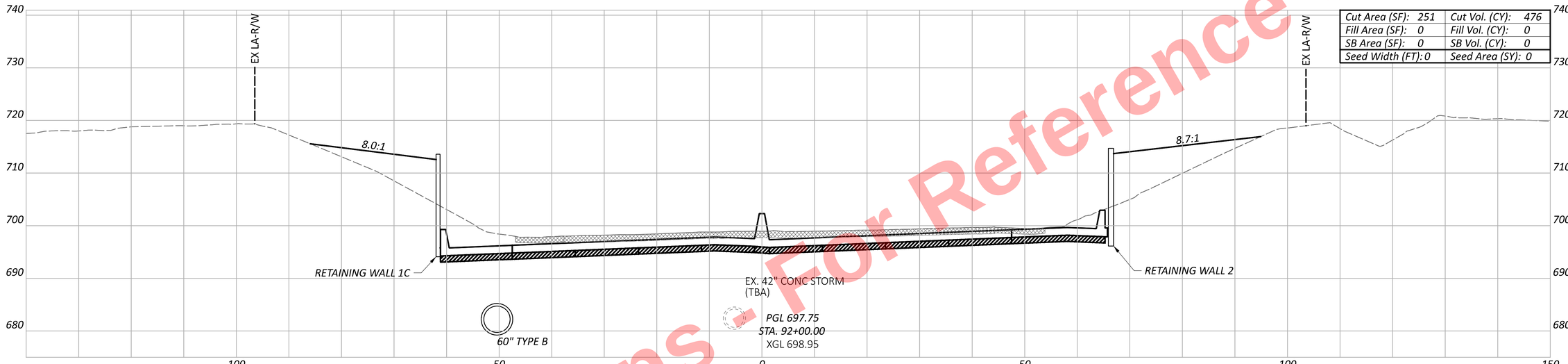
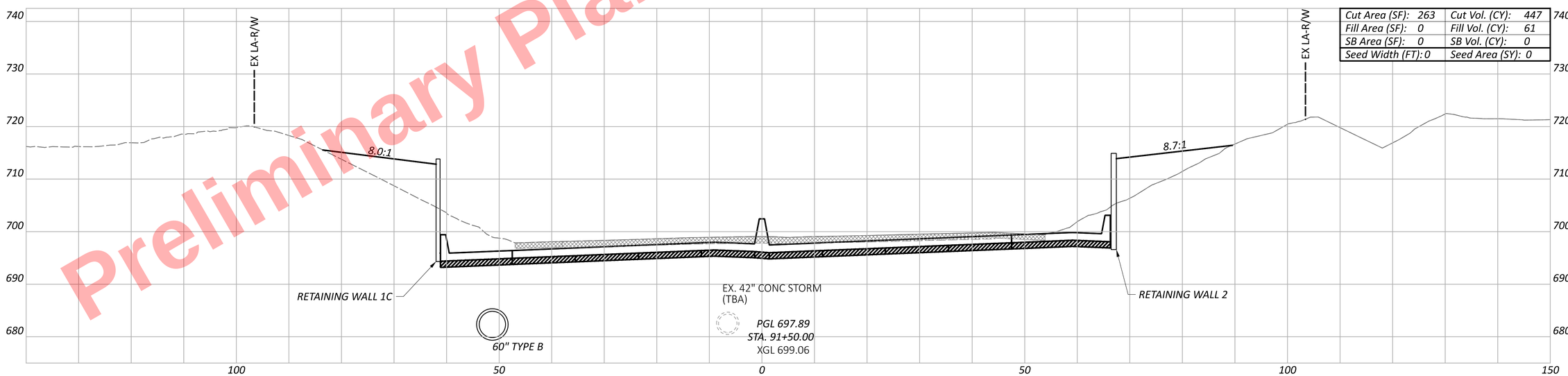
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	251	Cut Vol. (CY):	476
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0



Cut Area (SF):	263	Cut Vol. (CY):	447
Fill Area (SF):	0	Fill Vol. (CY):	61
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 91+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:31:05 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 91+50.00 TO STA. 92+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
0	923	61	0

DESIGN AGENCY
HNTB

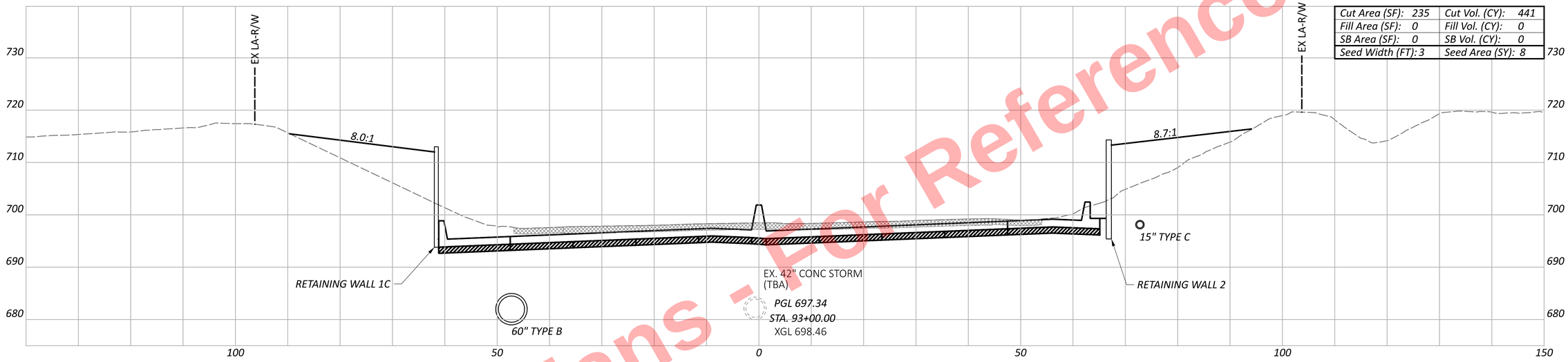
DESIGNER
EAP

REVIEWER
MTR 04/01/22

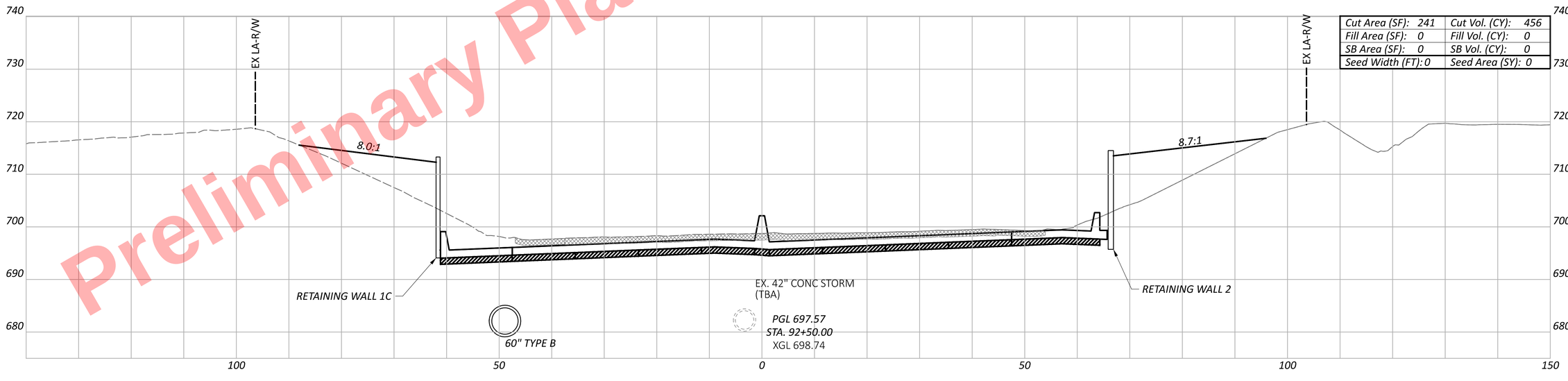
PROJECT ID
105743

SHEET P.369 | TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 235	Cut Vol. (CY): 441
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 3	Seed Area (SY): 8



Cut Area (SF): 241	Cut Vol. (CY): 456
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 0	Seed Area (SY): 0

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 92+50.00 TO STA. 93+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
8	897	0	0

SHEET P.370 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 92+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:31:12 AM USER: kperkins
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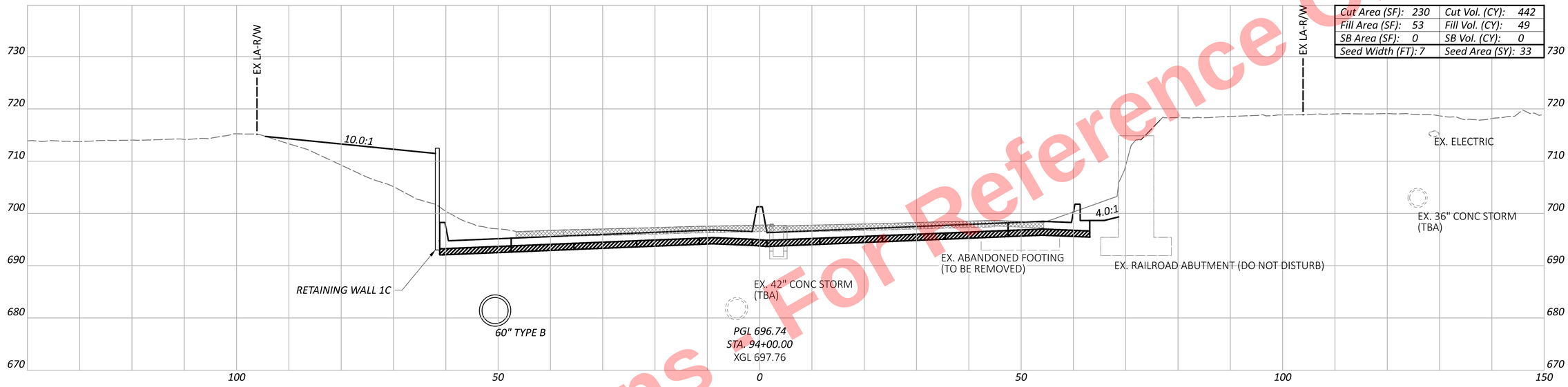
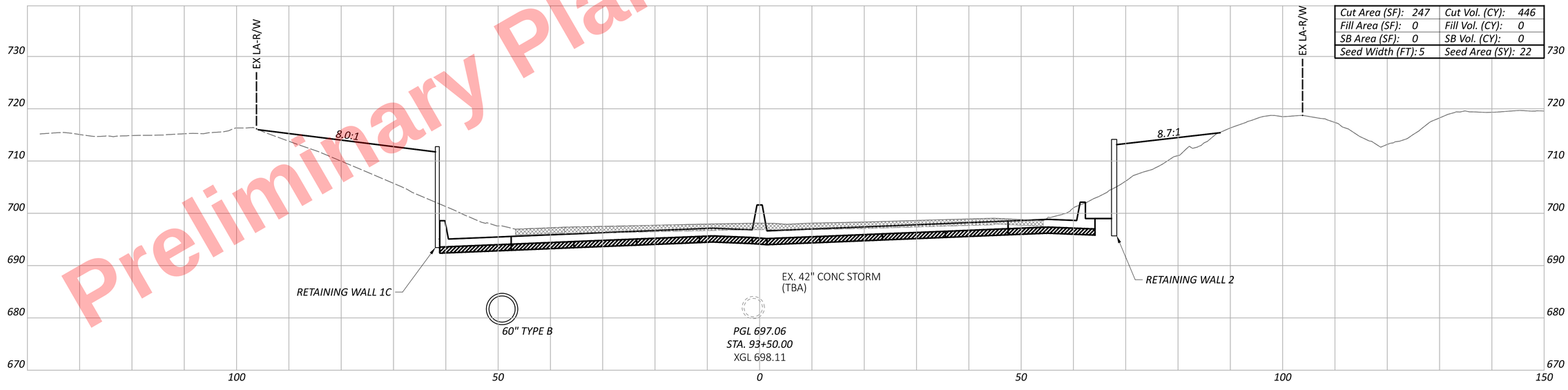
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	230	Cut Vol. (CY):	442
Fill Area (SF):	53	Fill Vol. (CY):	49
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	7	Seed Area (SY):	33



Cut Area (SF):	247	Cut Vol. (CY):	446
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	5	Seed Area (SY):	22

Preliminary Plans
For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 93+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:31:18 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 93+50.00 TO STA. 94+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

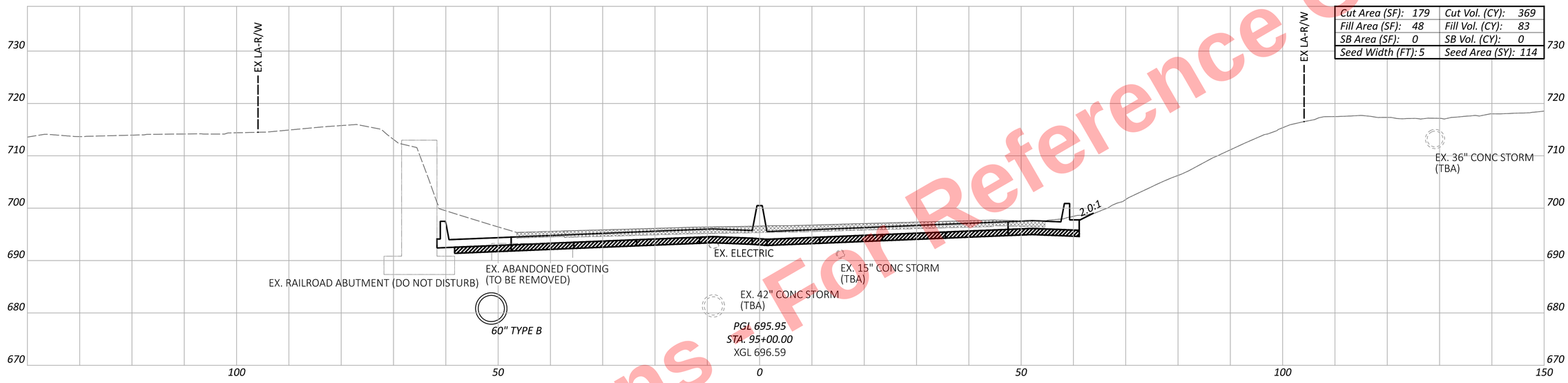
REVIEWER
MTR 04/01/22

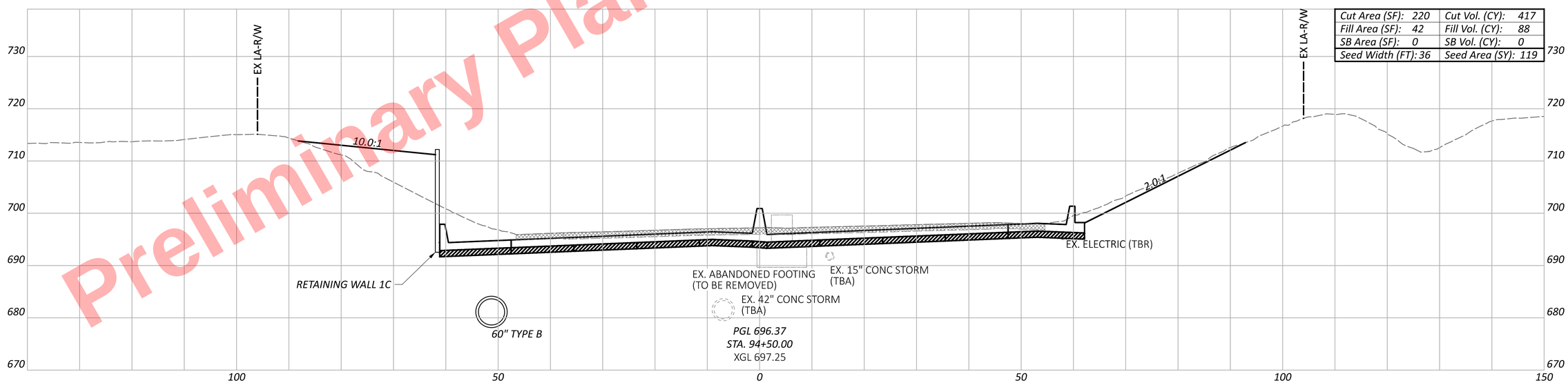
PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
55	888	49	0

SHEET	TOTAL
P.371	P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





Preliminary Plans - Not For Reference Only

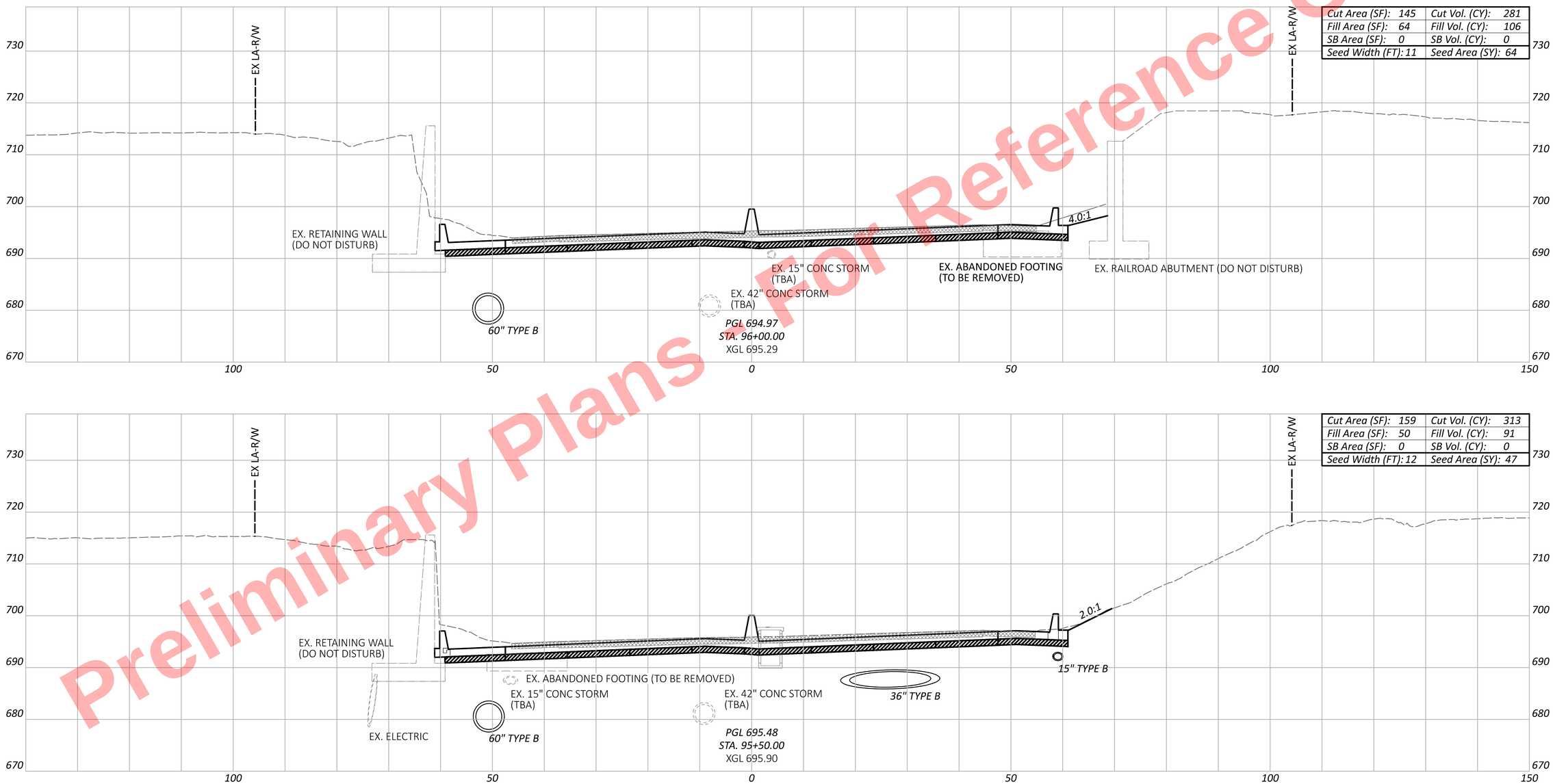
CROSS SECTIONS - I.R. 77
STA. 94+50.00 TO STA. 95+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
233	786	171	0

DESIGN AGENCY: HNTB
DESIGNER: EAP
REVIEWER: MTR 04/01/22
PROJECT ID: 105743
SHEET: P.372 TOTAL: P.1269

CUY-77-11.41 - PART 1
MODEL: CLP_I077 - 94+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 11:31:24 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	145	Cut Vol. (CY):	281
Fill Area (SF):	64	Fill Vol. (CY):	106
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	11	Seed Area (SY):	64

Cut Area (SF):	159	Cut Vol. (CY):	313
Fill Area (SF):	50	Fill Vol. (CY):	91
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	12	Seed Area (SY):	47

Preliminary Plans Not For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 95+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:31:30 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

CROSS SECTIONS - I.R. 77
STA. 95+50.00 TO STA. 96+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
111	594	197	0

DESIGN AGENCY
HNTB

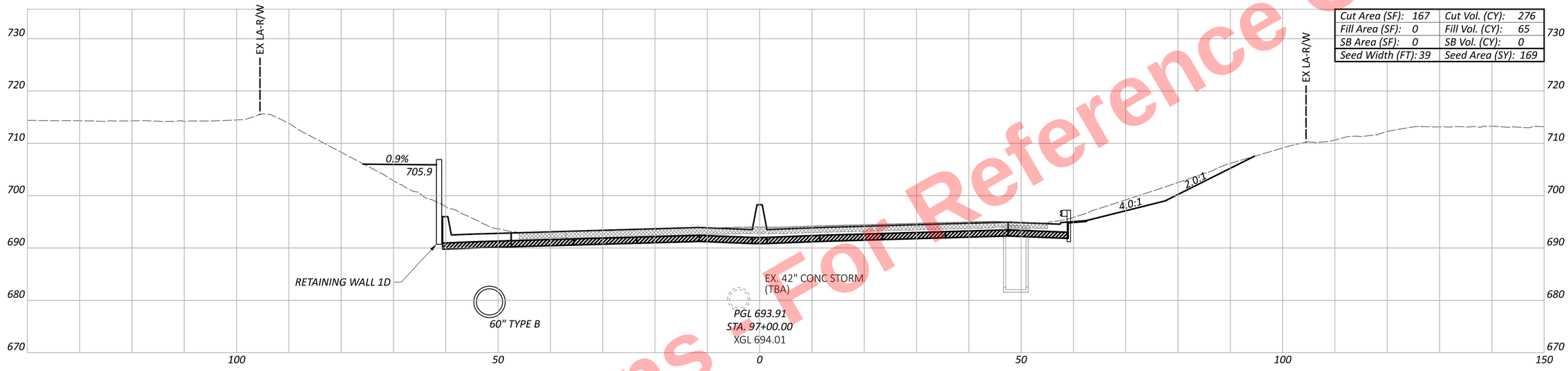
DESIGNER
EAP

REVIEWER
MTR 04/01/22

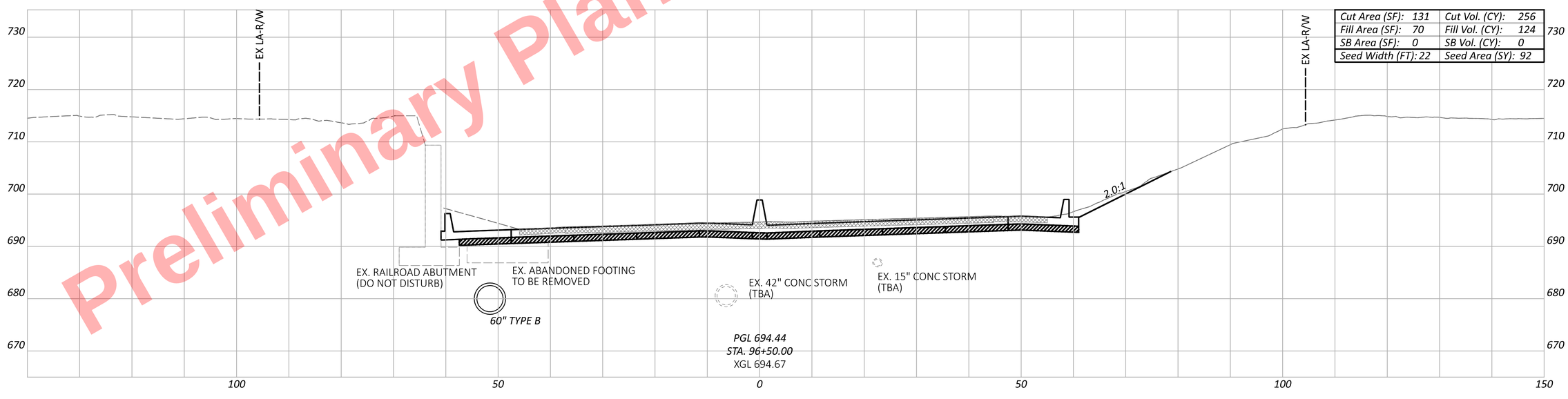
PROJECT ID
105743

SHEET P.373 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	167	Cut Vol. (CY):	276
Fill Area (SF):	0	Fill Vol. (CY):	65
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	39	Seed Area (SY):	169



Cut Area (SF):	131	Cut Vol. (CY):	256
Fill Area (SF):	70	Fill Vol. (CY):	124
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	22	Seed Area (SY):	92

Preliminary Plans For Reference Only

CROSS SECTIONS - I.R. 77
STA. 96+50.00 TO STA. 97+00.00

DESIGN AGENCY
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EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

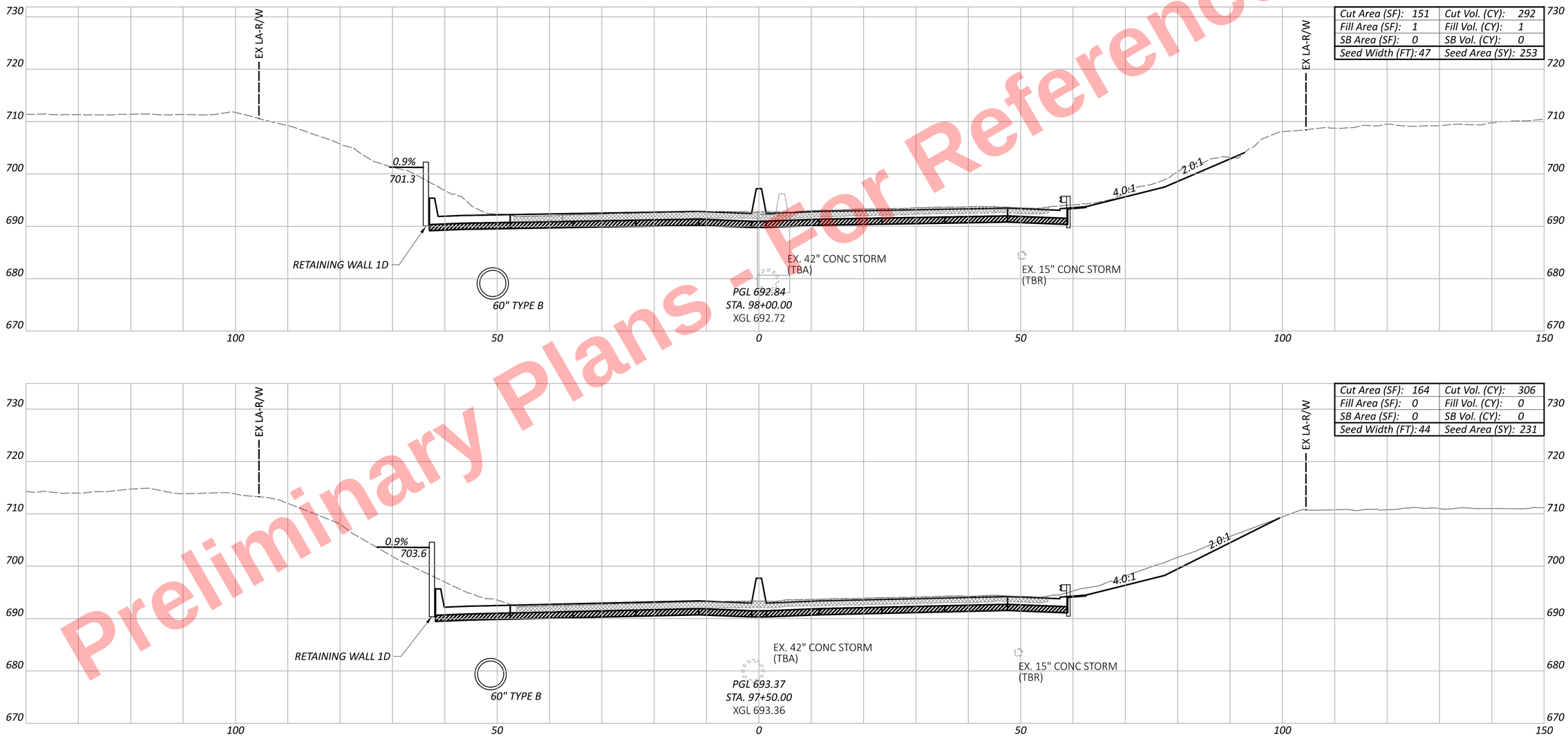
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
261	532	189	0

SHEET P.374 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 96+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:31:36 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 97+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:31:49 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 97+50.00 TO STA. 98+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
484	598	1	0

DESIGN AGENCY
HNTB

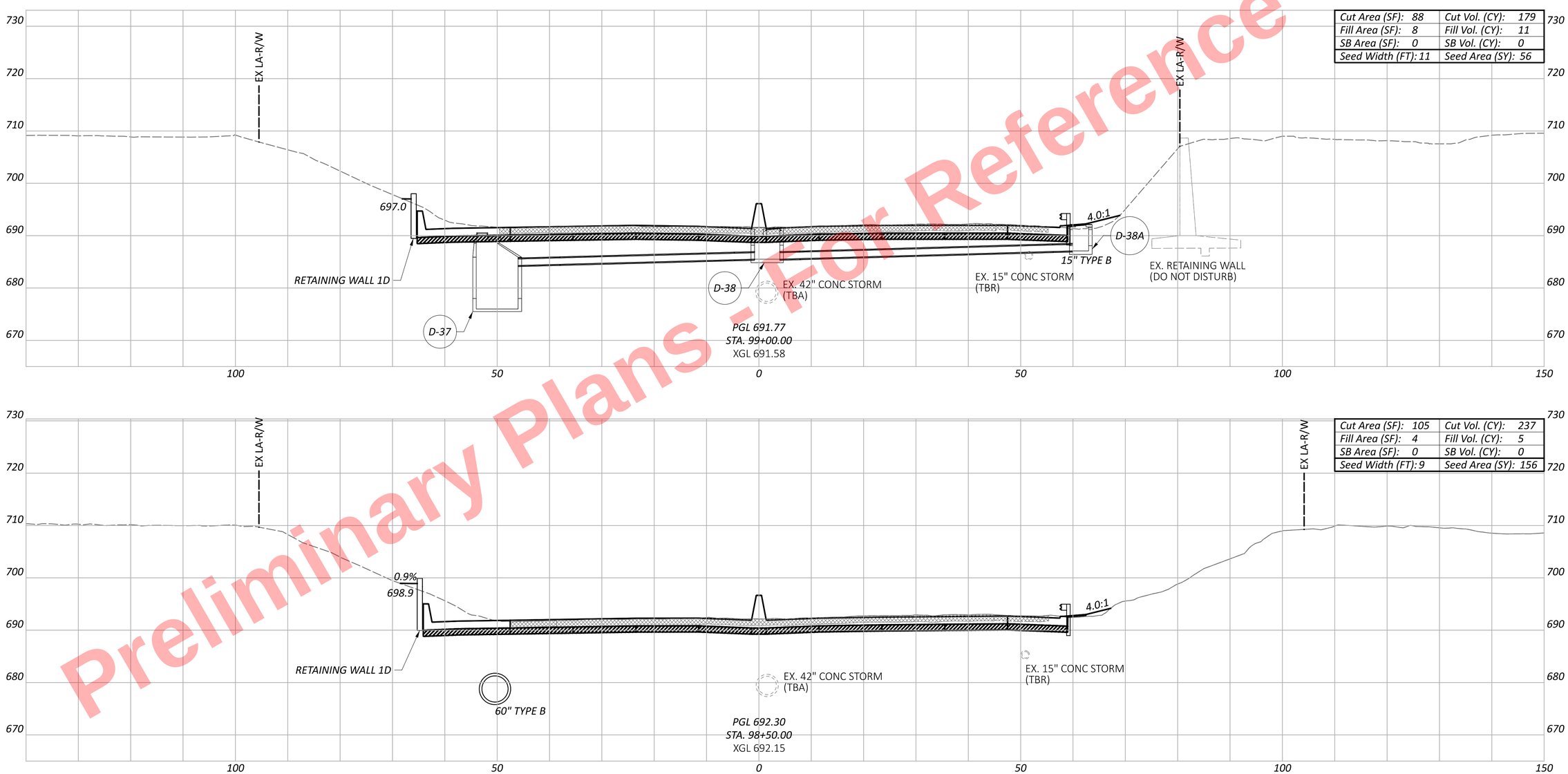
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.375 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

CROSS SECTIONS - I.R. 77
STA. 98+50.00 TO STA. 99+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
212	416	16	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

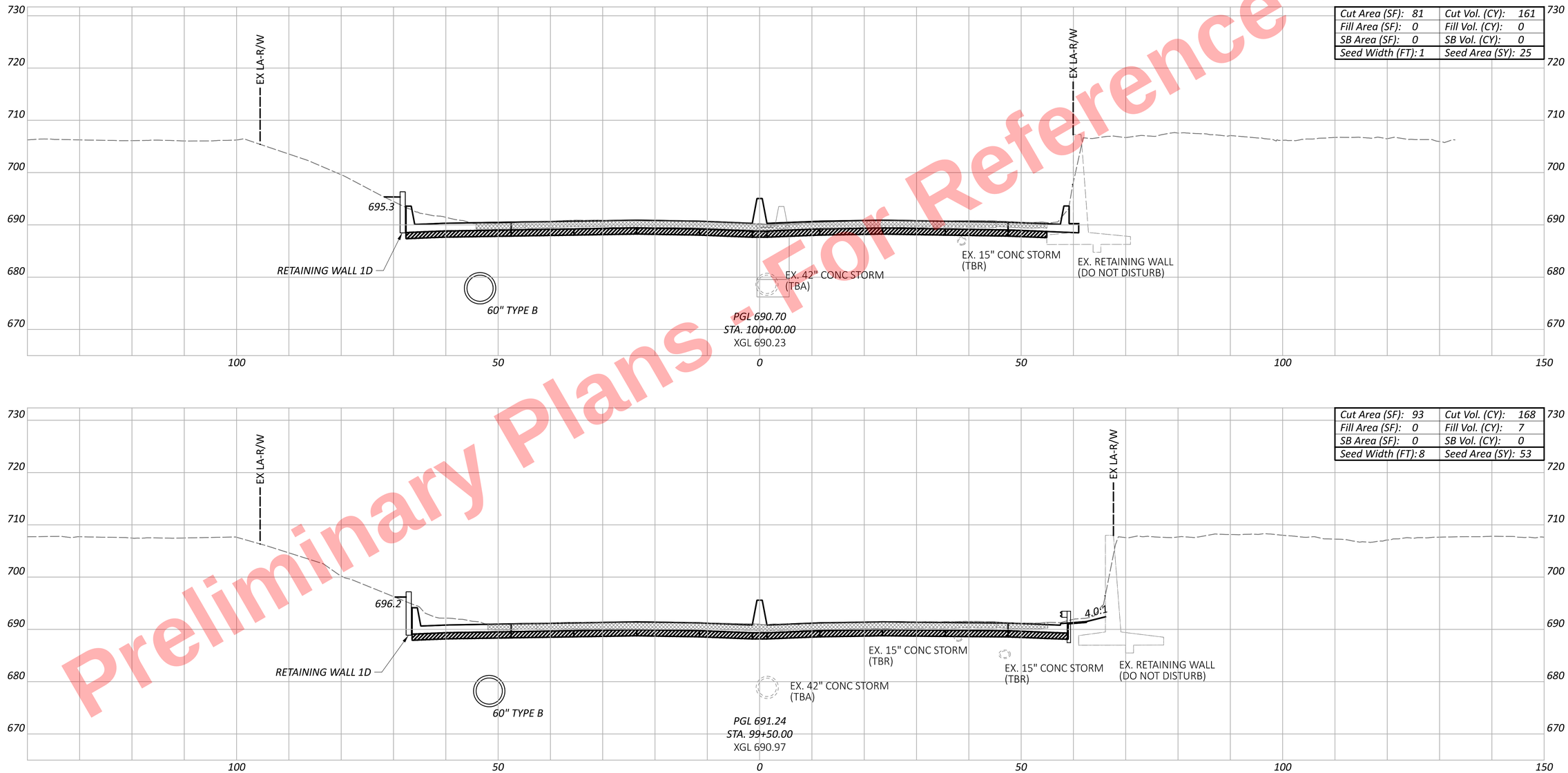
REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.376 TOTAL P.1269

MODEL: CLP_I077 - 98+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:32:04 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_XS101.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 99+50.00 TO STA. 100+00.00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 99+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:32:18 AM USER: kperkins
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Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
78	329	7	0

DESIGN AGENCY
HNTB

DESIGNER
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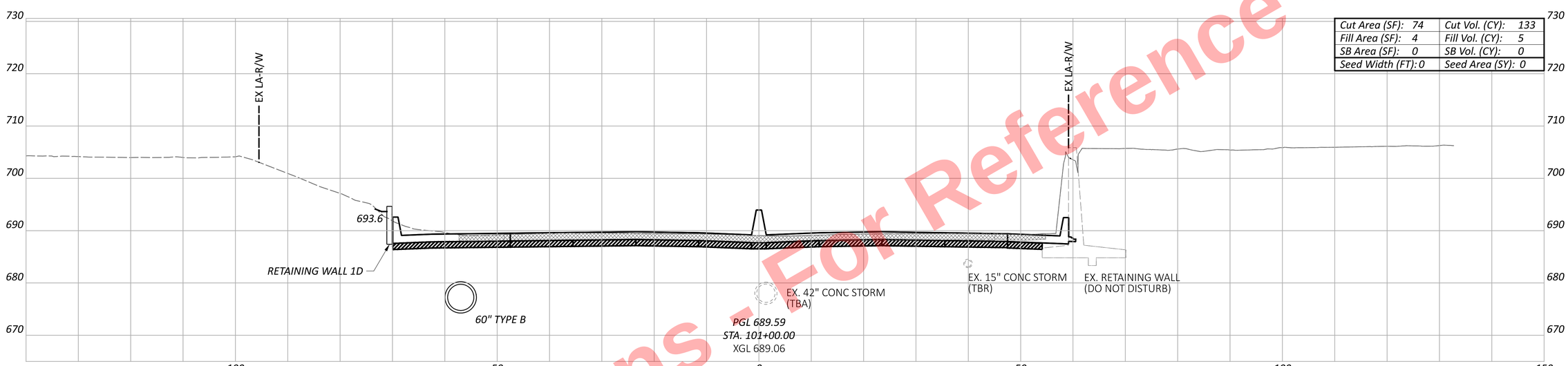
REVIEWER
MTR 04/01/22

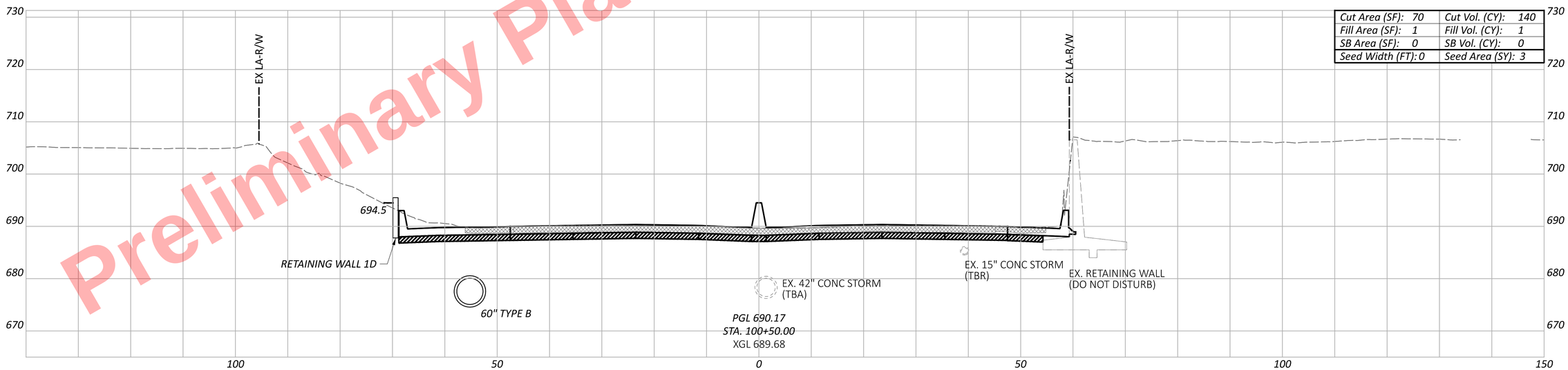
PROJECT ID
105743

SHEET P.377 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	74	Cut Vol. (CY):	133
Fill Area (SF):	4	Fill Vol. (CY):	5
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0



Cut Area (SF):	70	Cut Vol. (CY):	140
Fill Area (SF):	1	Fill Vol. (CY):	1
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	3

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 100+50.00 TO STA. 101+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

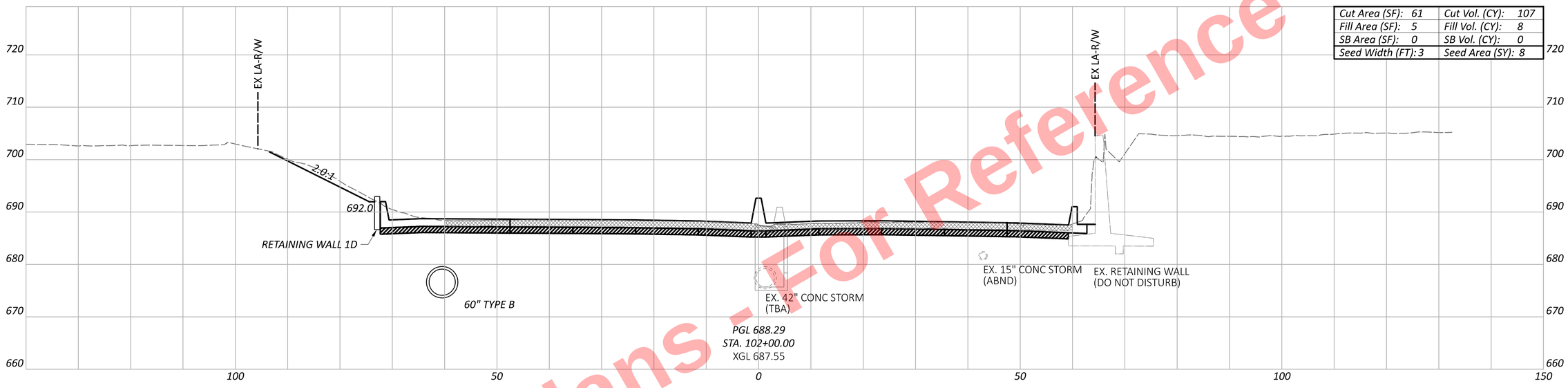
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
3	273	6	0

SHEET P.378 TOTAL P.1269

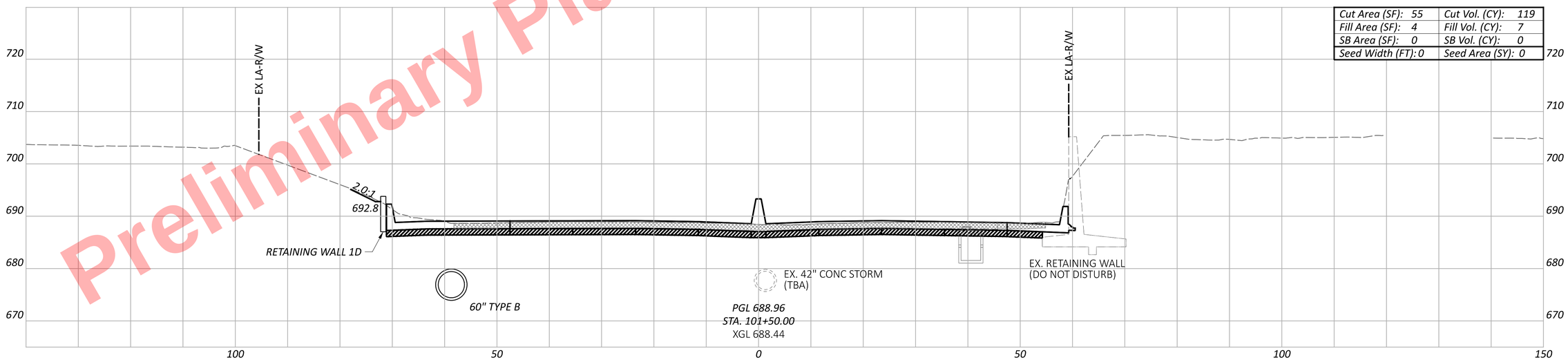
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 100+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:32:32 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	61	Cut Vol. (CY):	107
Fill Area (SF):	5	Fill Vol. (CY):	8
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	3	Seed Area (SY):	8



Cut Area (SF):	55	Cut Vol. (CY):	119
Fill Area (SF):	4	Fill Vol. (CY):	7
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 101+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:32:46 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 101+50.00 TO STA. 102+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
8	226	15	0

DESIGN AGENCY
HNTB

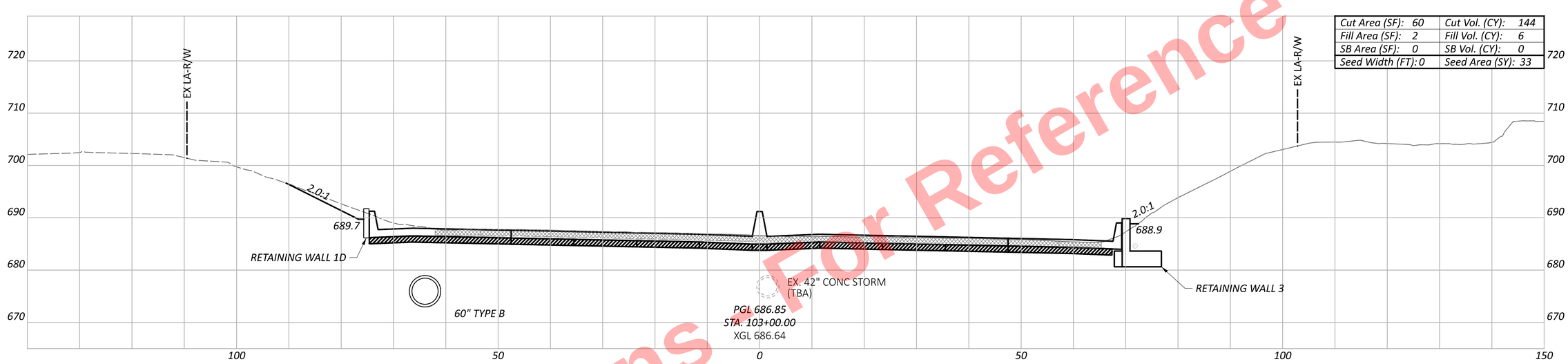
DESIGNER
EAP

REVIEWER
MTR 04/01/22

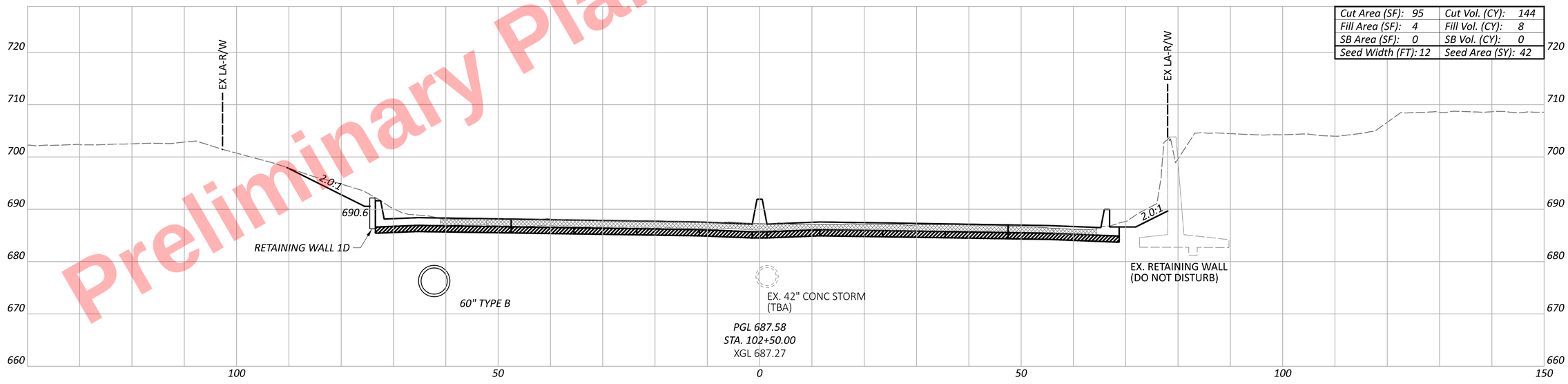
PROJECT ID
105743

SHEET P.379 | TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	60	Cut Vol. (CY):	144
Fill Area (SF):	2	Fill Vol. (CY):	6
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	33



Cut Area (SF):	95	Cut Vol. (CY):	144
Fill Area (SF):	4	Fill Vol. (CY):	8
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	12	Seed Area (SY):	42

Preliminary Plans For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 102+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:32:59 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 102+50.00 TO STA. 103+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
75	288	14	0

DESIGN AGENCY
HNTB

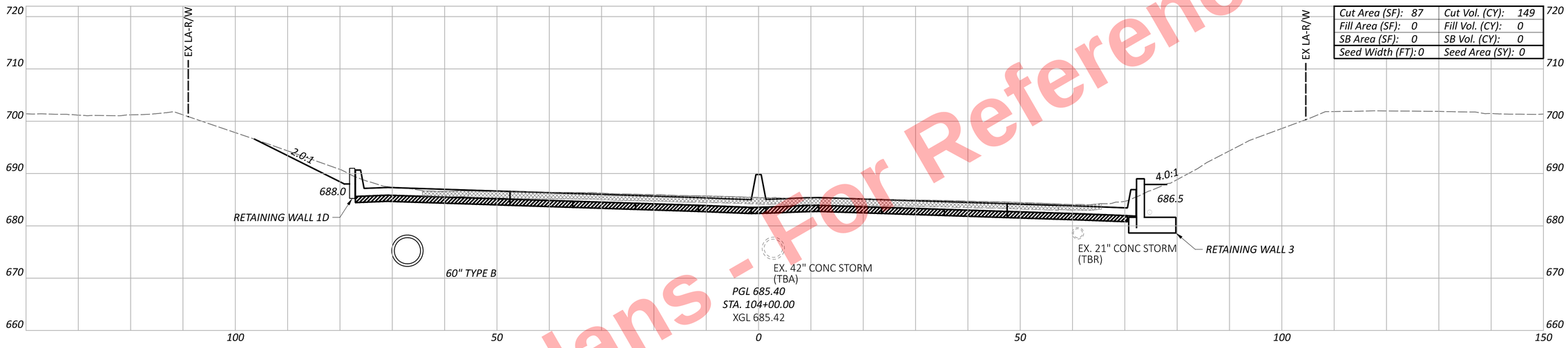
DESIGNER
EAP

REVIEWER
MTR 04/01/22

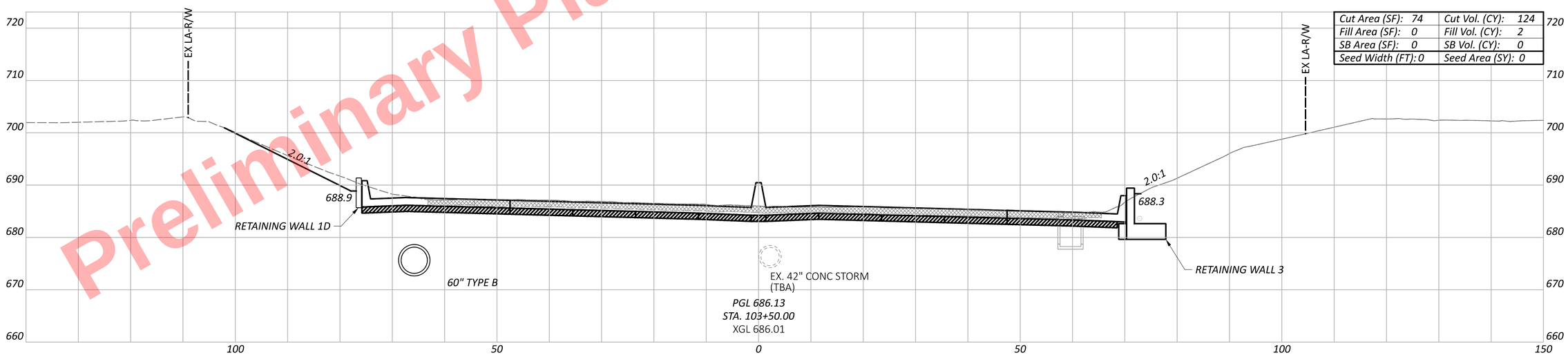
PROJECT ID
105743

SHEET P.380 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	87	Cut Vol. (CY):	149
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0



Cut Area (SF):	74	Cut Vol. (CY):	124
Fill Area (SF):	0	Fill Vol. (CY):	2
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 103+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:33:12 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 103+50.00 TO STA. 104+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
0	273	2	0

DESIGN AGENCY
HNTB

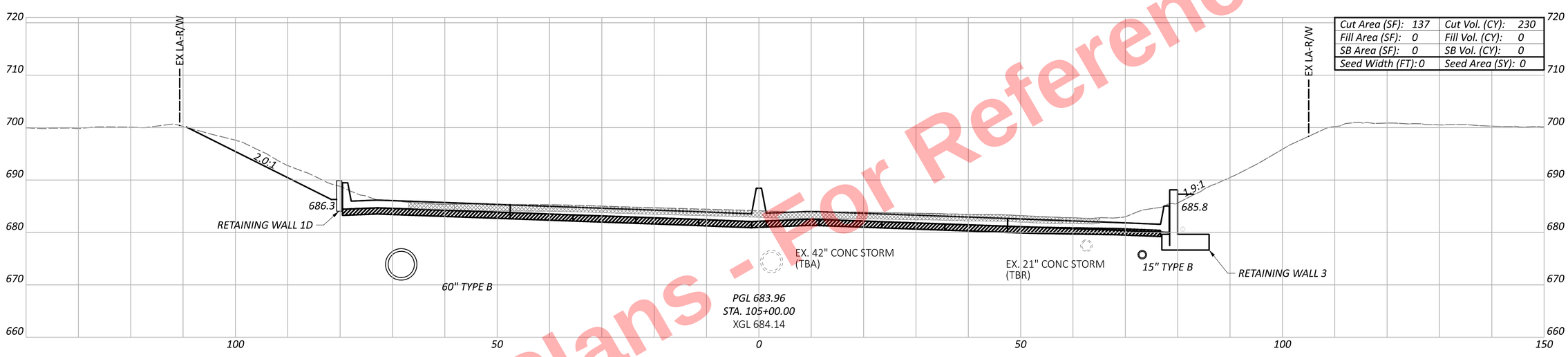
DESIGNER
EAP

REVIEWER
MTR 04/01/22

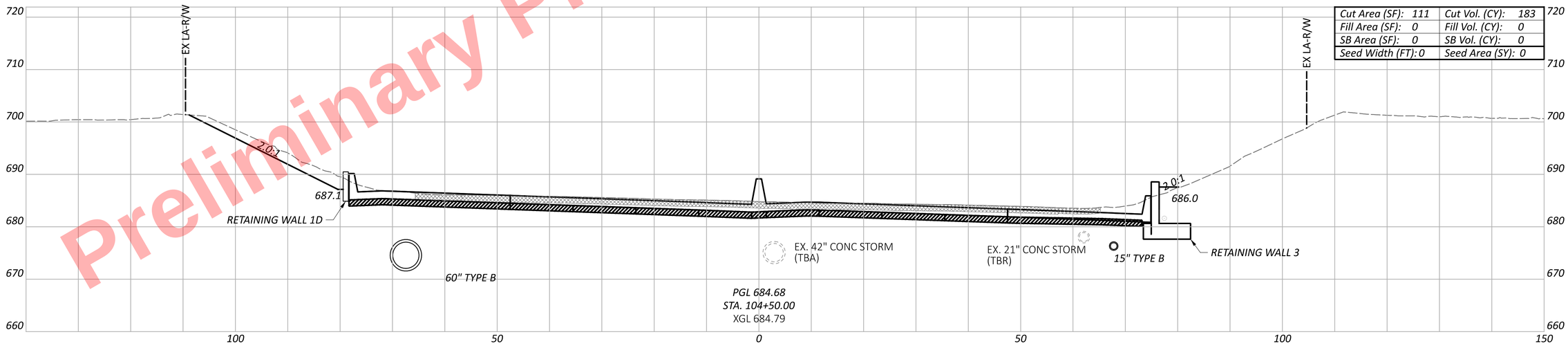
PROJECT ID
105743

SHEET P.381 | TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	137	Cut Vol. (CY):	230
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0



Cut Area (SF):	111	Cut Vol. (CY):	183
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 104+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:33:23 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 104+50.00 TO STA. 105+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

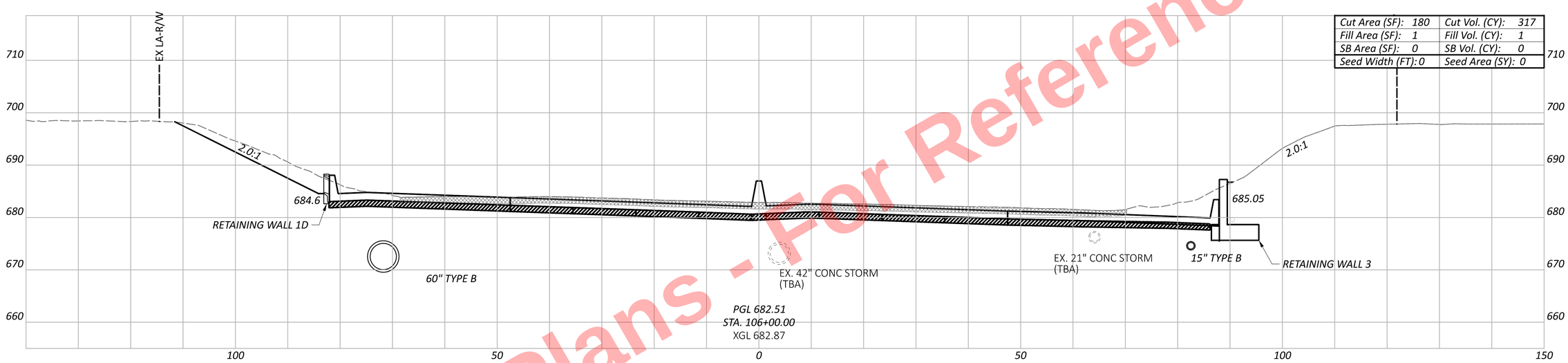
REVIEWER
MTR 04/01/22

PROJECT ID
105743

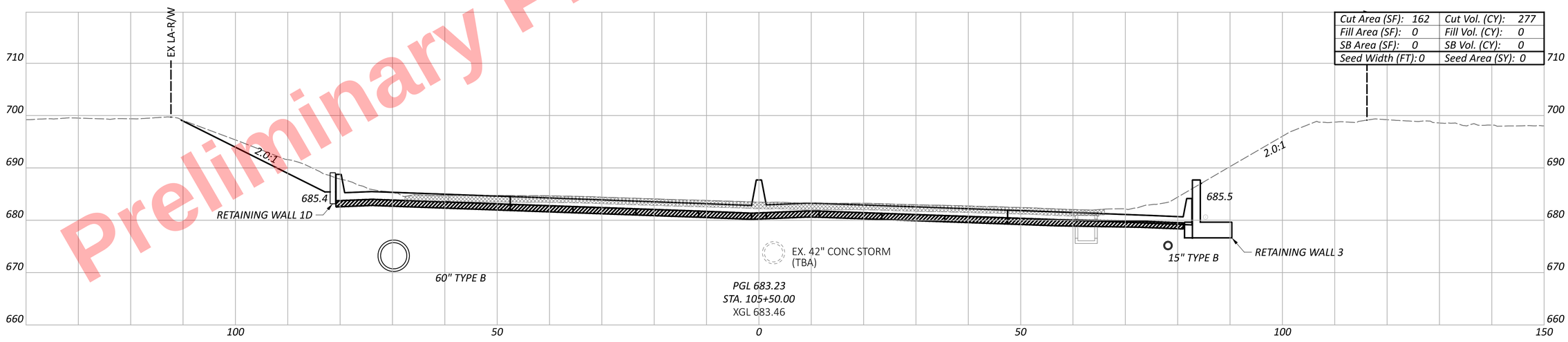
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
0	413	0	0

SHEET	TOTAL
P.382	P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	180	Cut Vol. (CY):	317
Fill Area (SF):	1	Fill Vol. (CY):	1
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0



Cut Area (SF):	162	Cut Vol. (CY):	277
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 105+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:33:29 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 105+50.00 TO STA. 106+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
0	594	1	0

DESIGN AGENCY
HNTB

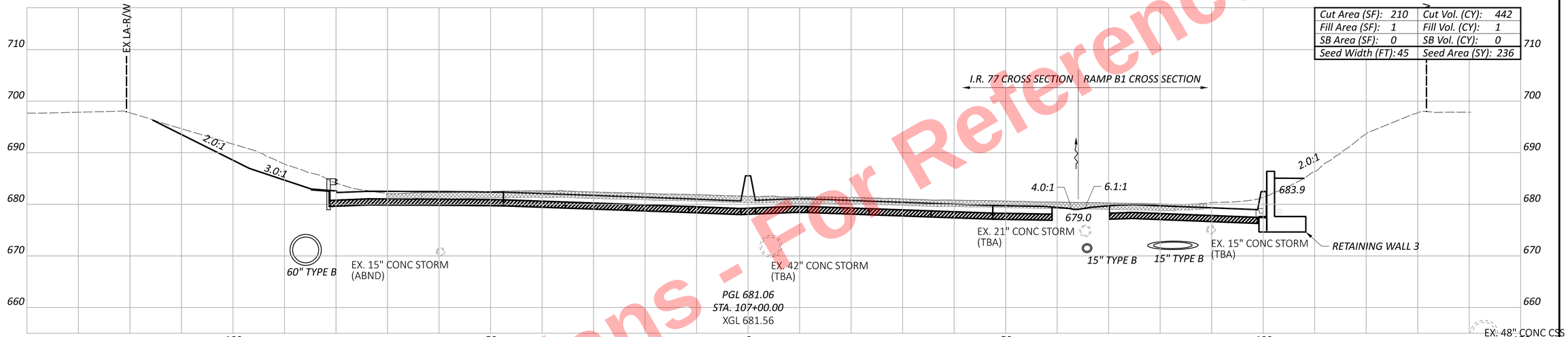
DESIGNER
EAP

REVIEWER
MTR 04/01/22

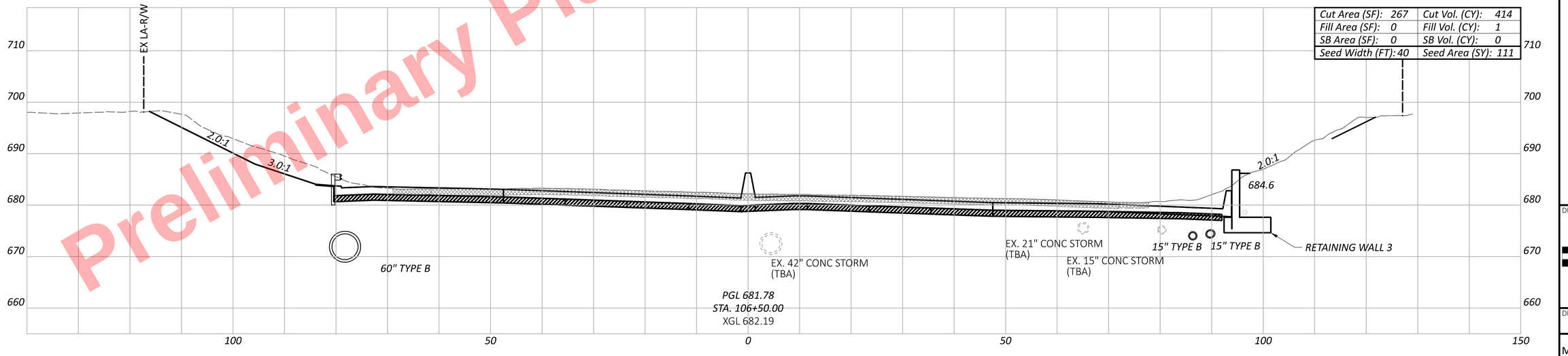
PROJECT ID
105743

SHEET P.383 | TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	210	Cut Vol. (CY):	442
Fill Area (SF):	1	Fill Vol. (CY):	1
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	45	Seed Area (SY):	236



Cut Area (SF):	267	Cut Vol. (CY):	414
Fill Area (SF):	0	Fill Vol. (CY):	1
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	40	Seed Area (SY):	111

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 106+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:33:35 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 106+50.00 TO STA. 107+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

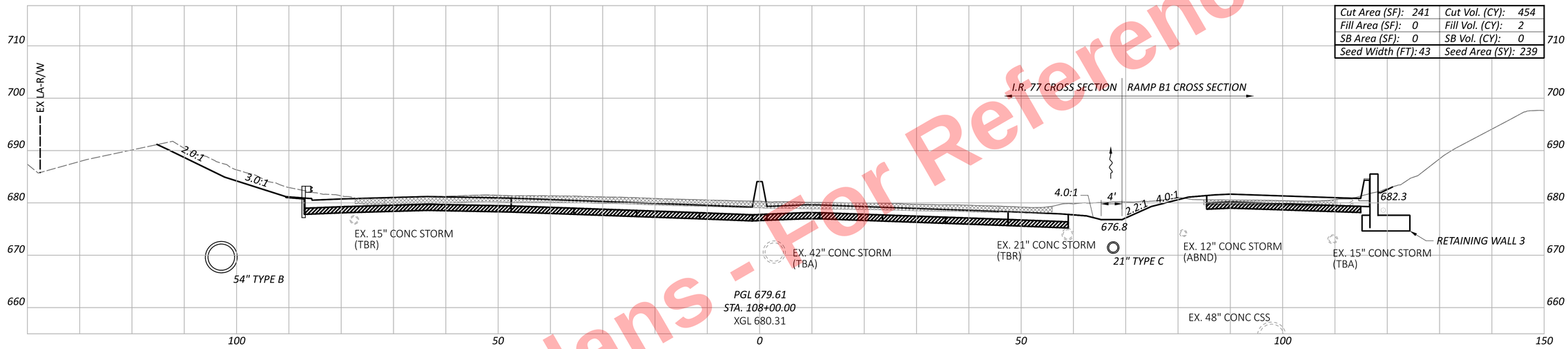
REVIEWER
MTR 04/01/22

PROJECT ID
105743

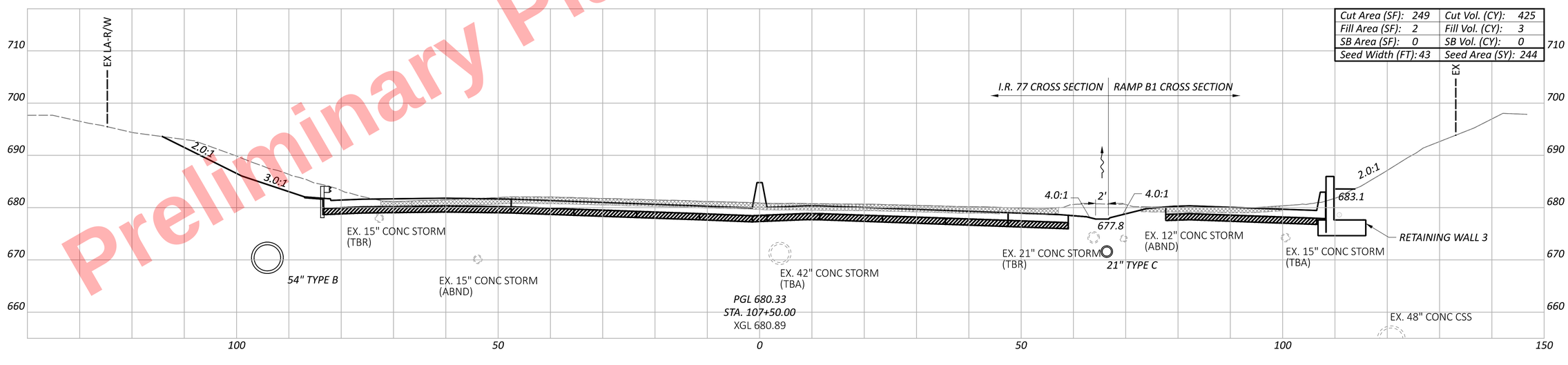
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
347	856	2	0

SHEET	TOTAL
P.384	P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	241	Cut Vol. (CY):	454
Fill Area (SF):	0	Fill Vol. (CY):	2
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	43	Seed Area (SY):	239



Cut Area (SF):	249	Cut Vol. (CY):	425
Fill Area (SF):	2	Fill Vol. (CY):	3
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	43	Seed Area (SY):	244

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 107+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:33:41 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

CROSS SECTIONS - I.R. 77
STA. 107+50.00 TO STA. 108+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

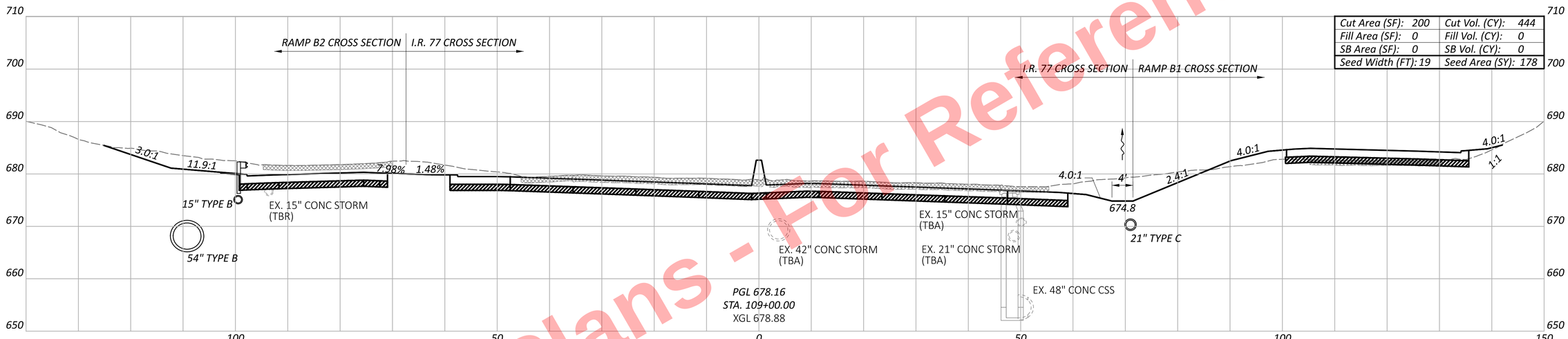
REVIEWER
MTR 04/01/22

PROJECT ID
105743

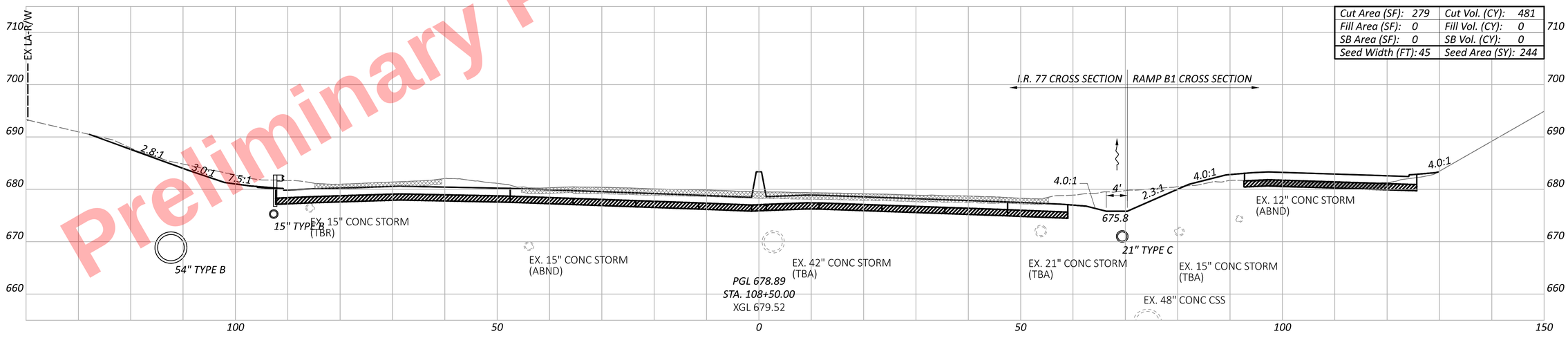
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
483	879	5	0

SHEET	TOTAL
P.385	P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	200	Cut Vol. (CY):	444
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	19	Seed Area (SY):	178



Cut Area (SF):	279	Cut Vol. (CY):	481
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	45	Seed Area (SY):	244

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 108+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:33:48 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 108+50.00 TO STA. 109+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
422	925	0	0

DESIGN AGENCY
HNTB

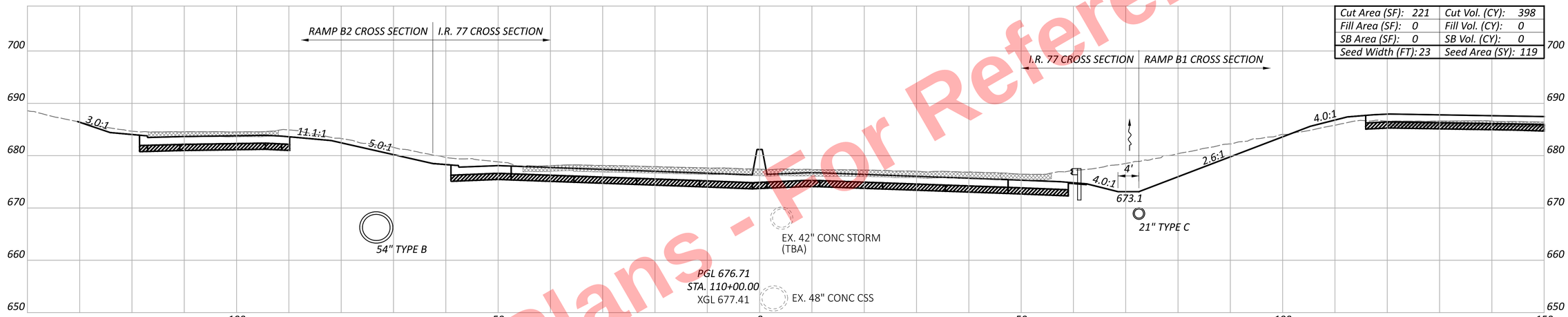
DESIGNER
EAP

REVIEWER
MTR 04/01/22

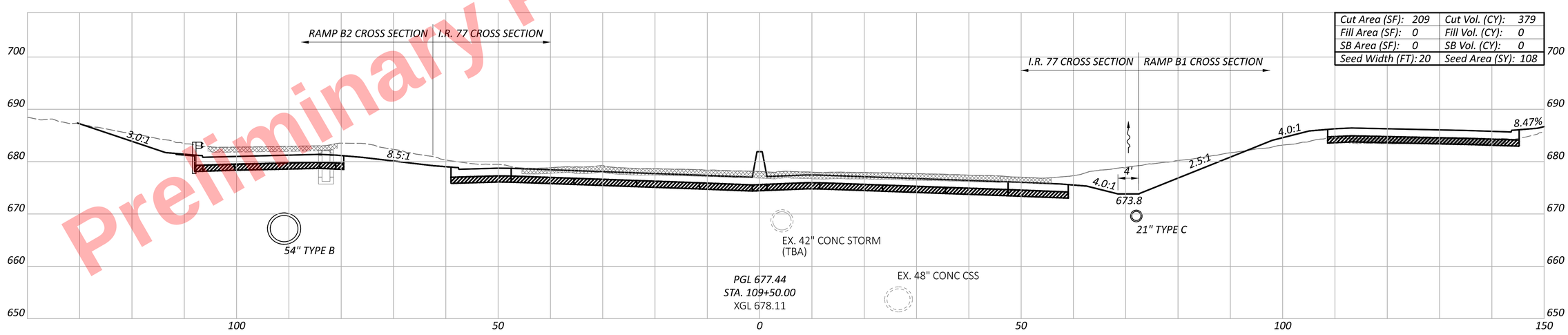
PROJECT ID
105743

SHEET P.386 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 221	Cut Vol. (CY): 398
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 23	Seed Area (SY): 119



Cut Area (SF): 209	Cut Vol. (CY): 379
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 20	Seed Area (SY): 108

Preliminary Plans - Not For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 109+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:33:54 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

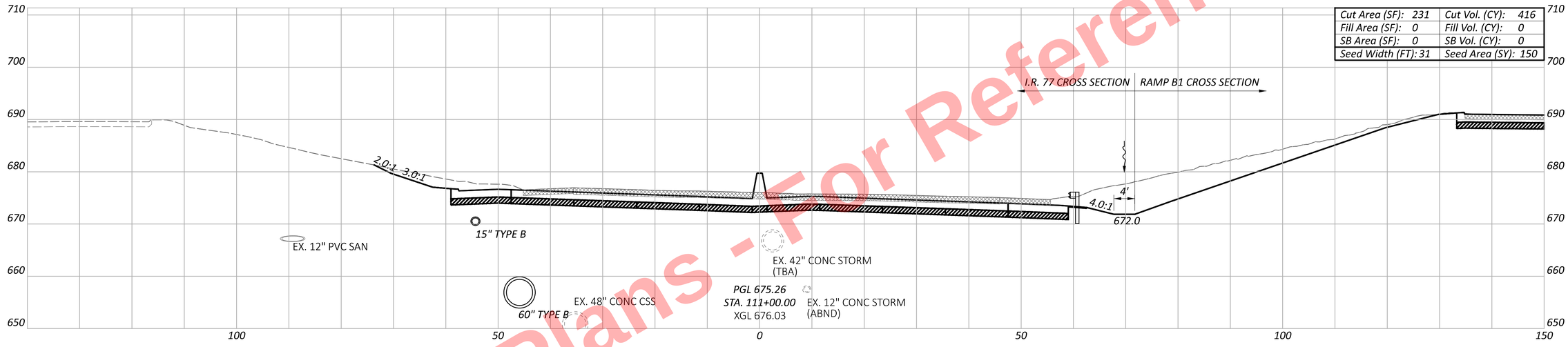
CROSS SECTIONS - I.R. 77
STA. 109+50.00 TO STA. 110+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
227	777	0	0

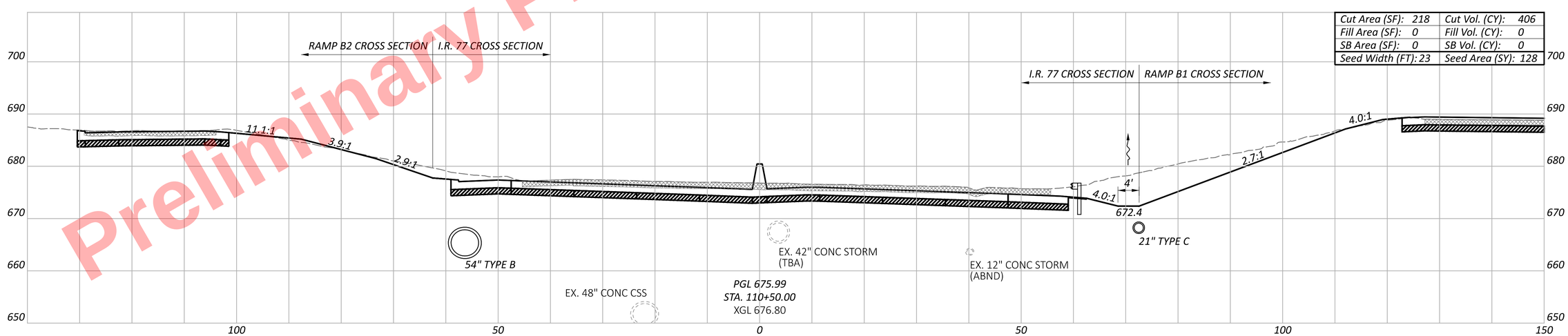
DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.387 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 231	Cut Vol. (CY): 416
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 31	Seed Area (SY): 150



Cut Area (SF): 218	Cut Vol. (CY): 406
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 23	Seed Area (SY): 128

Preliminary Plans - Not For Reference Only

CROSS SECTIONS - I.R. 77
STA. 110+50.00 TO STA. 111+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
278	822	0	0

SHEET P.388 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 110+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:00 AM USER: kperkins
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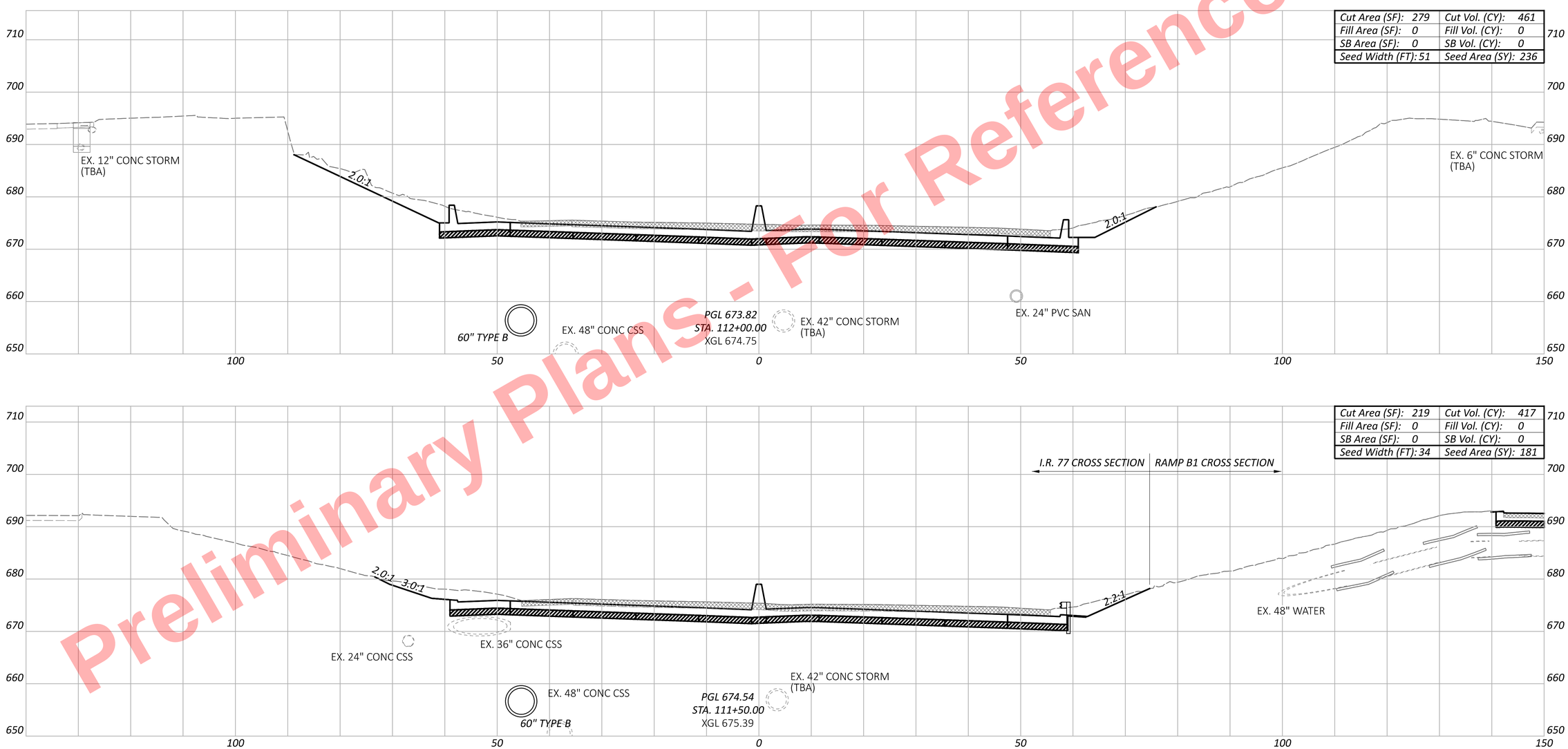
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 111+50.00 TO STA. 112+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
417	878	0	0

SHEET P.389 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 111+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:07 AM USER: kperkins
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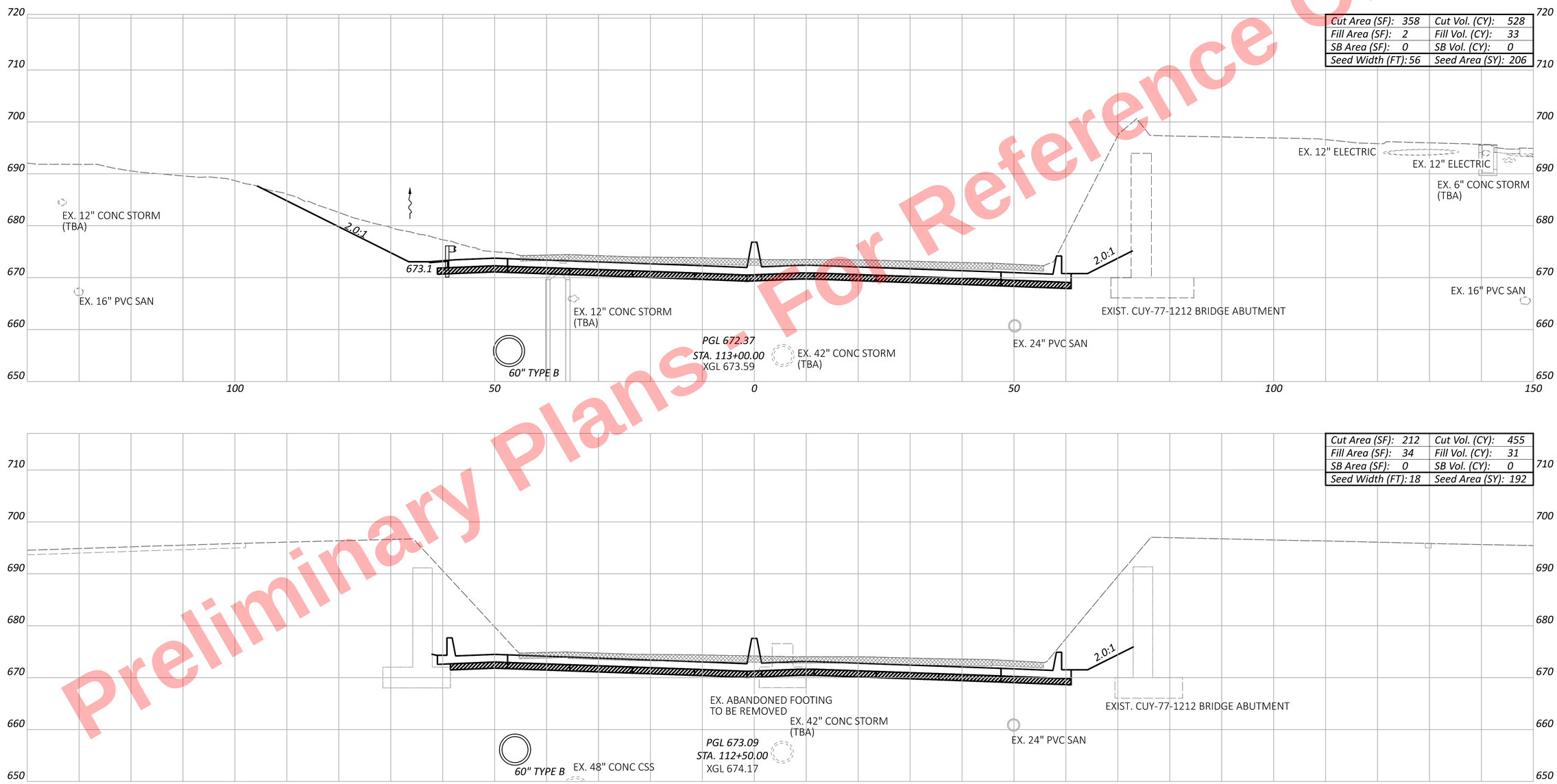
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 112+50.00 TO STA. 113+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
398	983	64	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.390 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 112+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:13 AM USER: kperkins
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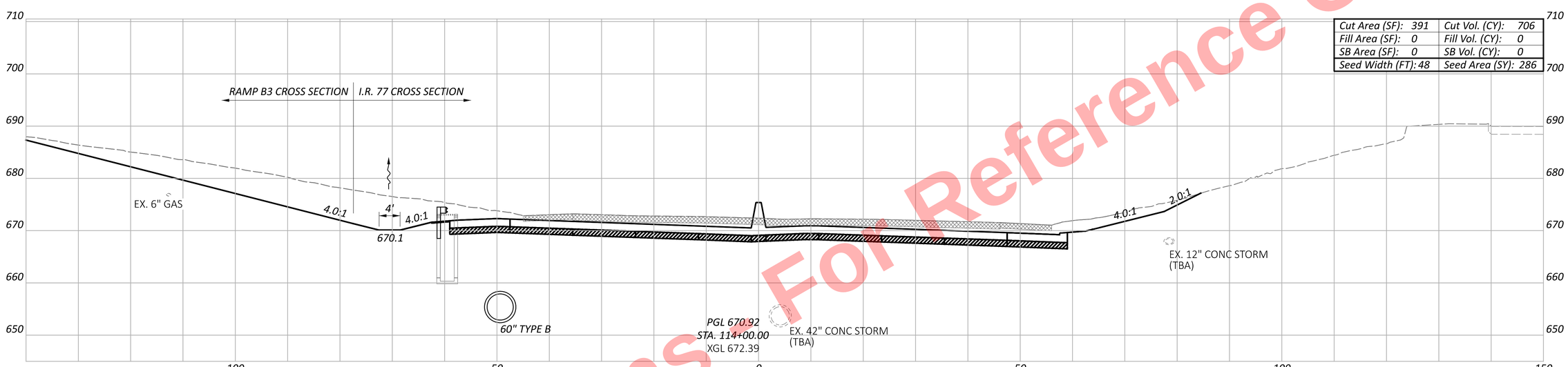
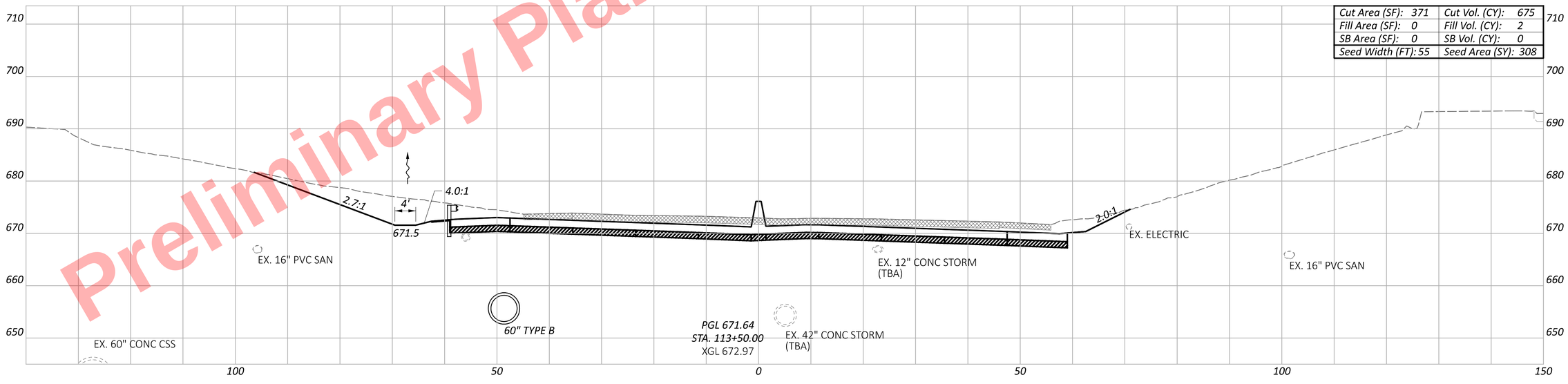
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	391	Cut Vol. (CY):	706
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	48	Seed Area (SY):	286



Cut Area (SF):	371	Cut Vol. (CY):	675
Fill Area (SF):	0	Fill Vol. (CY):	2
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	55	Seed Area (SY):	308

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 113+50.00 TO STA. 114+00.00

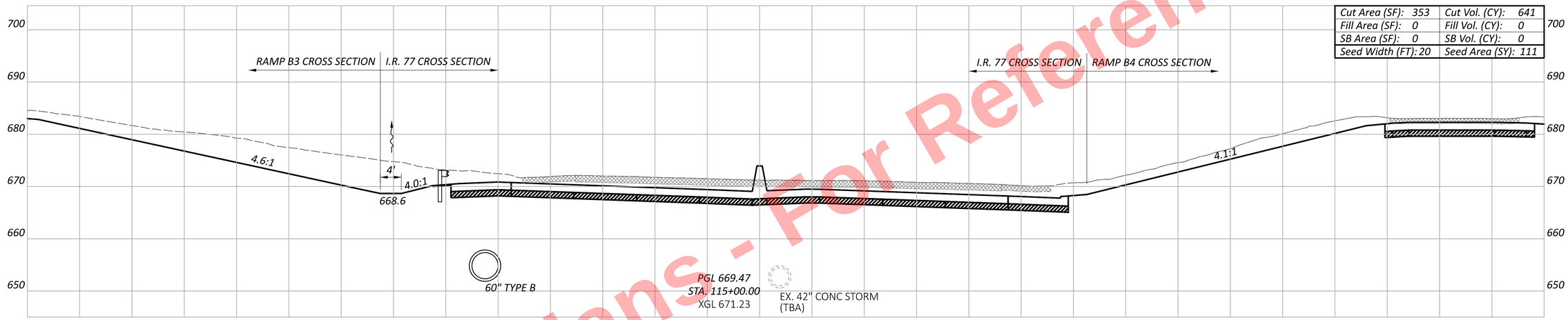
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
594	1381	2	0

DESIGN AGENCY: HNTB
DESIGNER: EAP
REVIEWER: MTR 04/01/22
PROJECT ID: 105743
SHEET: P.391 TOTAL: P.1269

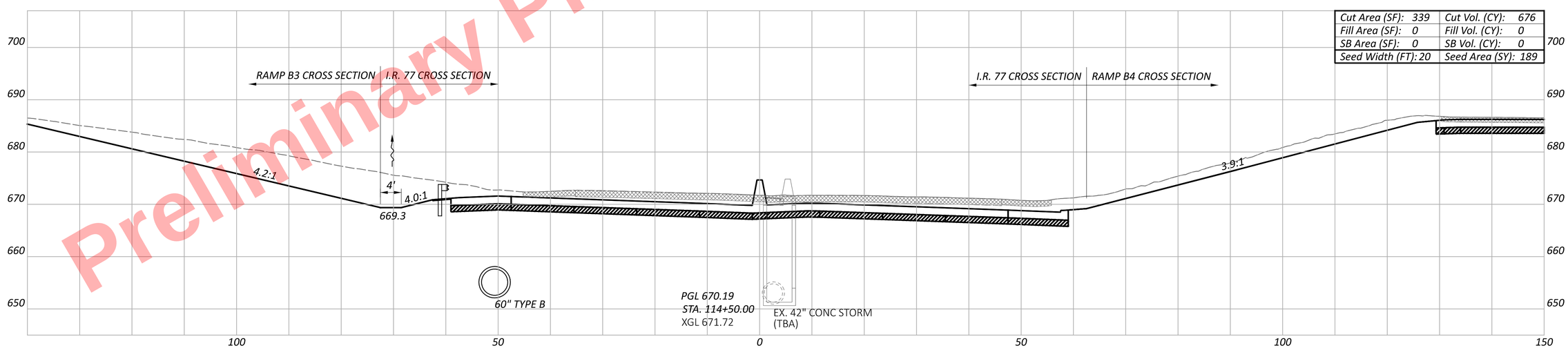
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 113+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:19 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_XS101.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	353	Cut Vol. (CY):	641
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	20	Seed Area (SY):	111



Cut Area (SF):	339	Cut Vol. (CY):	676
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	20	Seed Area (SY):	189

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 114+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:25 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 114+50.00 TO STA. 115+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
300	1317	0	0

DESIGN AGENCY
HNTB

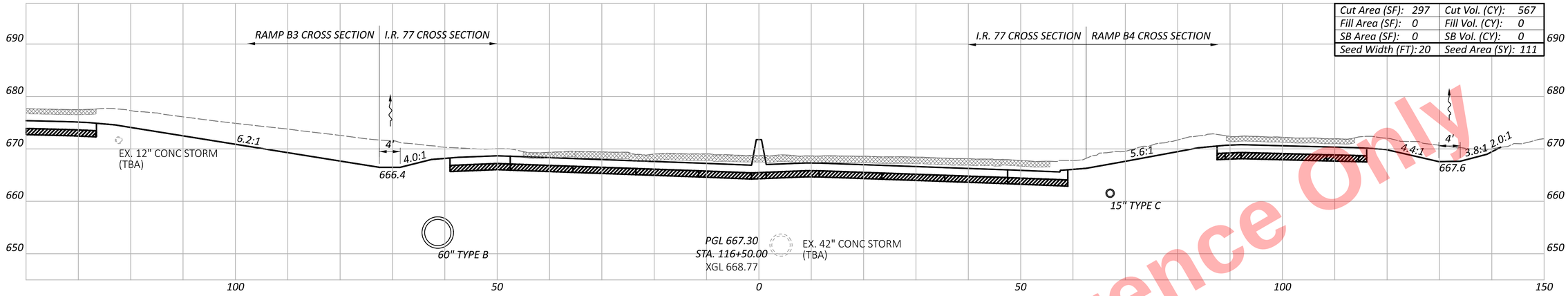
DESIGNER
EAP

REVIEWER
MTR 04/01/22

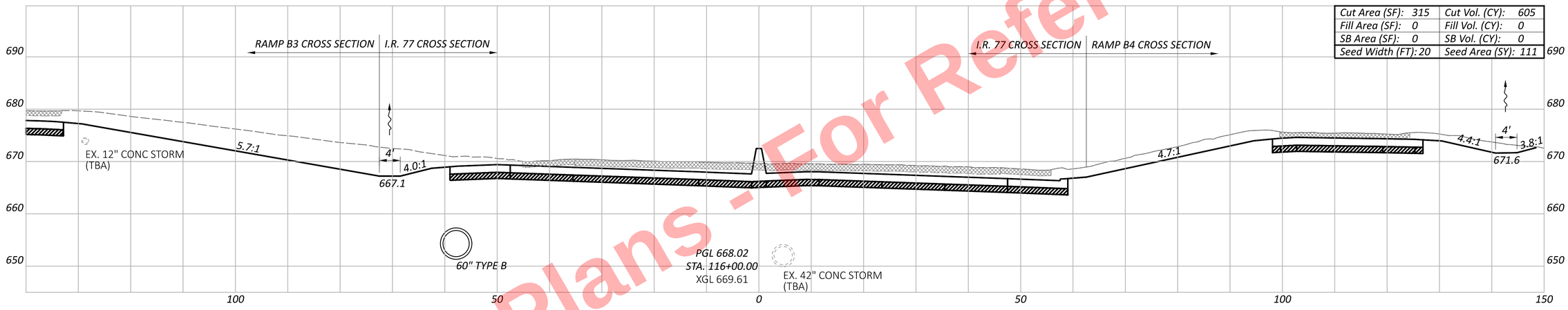
PROJECT ID
105743

SHEET P.392 | TOTAL P.1269

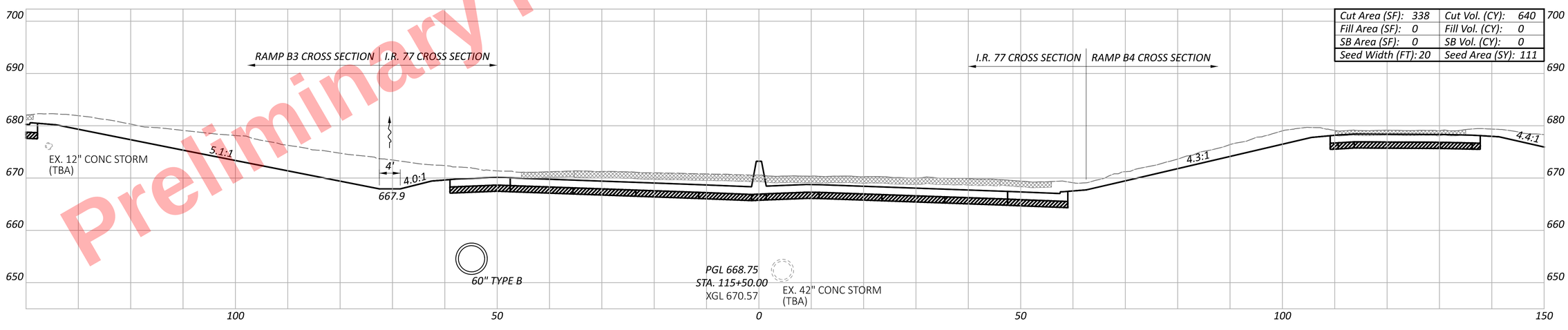
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	297	Cut Vol. (CY):	567
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	20	Seed Area (SY):	111



Cut Area (SF):	315	Cut Vol. (CY):	605
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	20	Seed Area (SY):	111



Cut Area (SF):	338	Cut Vol. (CY):	640
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	20	Seed Area (SY):	111

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 115+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:31 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 115+50.00 TO STA. 116+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

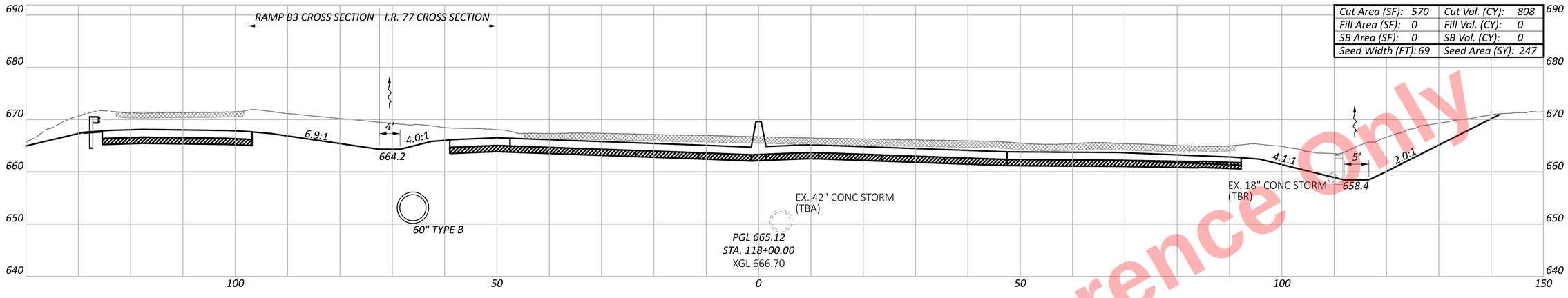
REVIEWER
MTR 04/01/22

PROJECT ID
105743

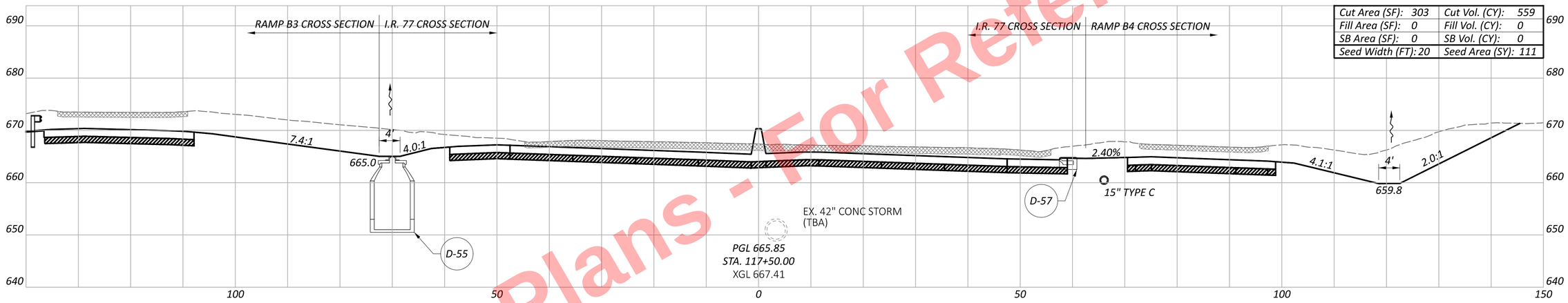
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
333	1812	0	0

SHEET	TOTAL
P.393	P.1269

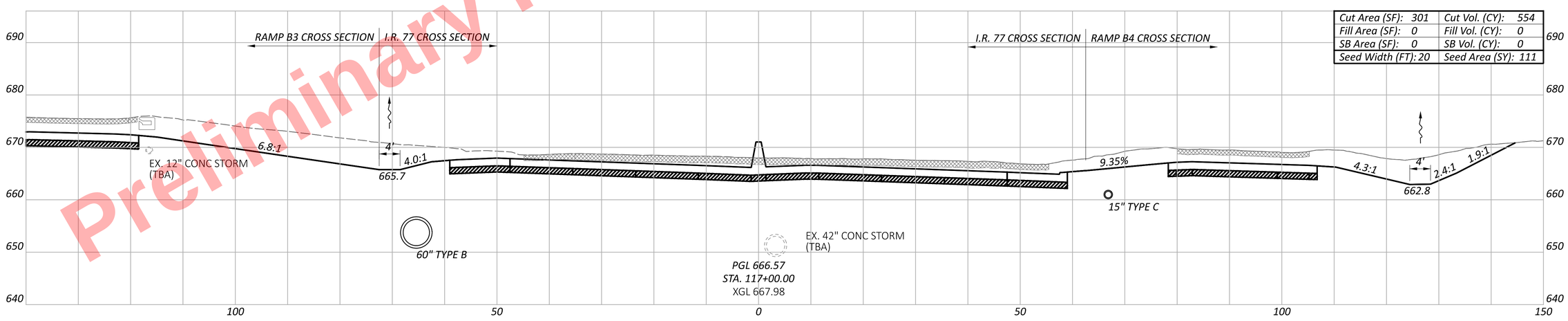
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	570	Cut Vol. (CY):	808
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	69	Seed Area (SY):	247



Cut Area (SF):	303	Cut Vol. (CY):	559
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	20	Seed Area (SY):	111



Cut Area (SF):	301	Cut Vol. (CY):	554
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	20	Seed Area (SY):	111

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 117+00.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:39 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 117+00.00 TO STA. 118+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
469	1921	0	0

DESIGN AGENCY
HNTB

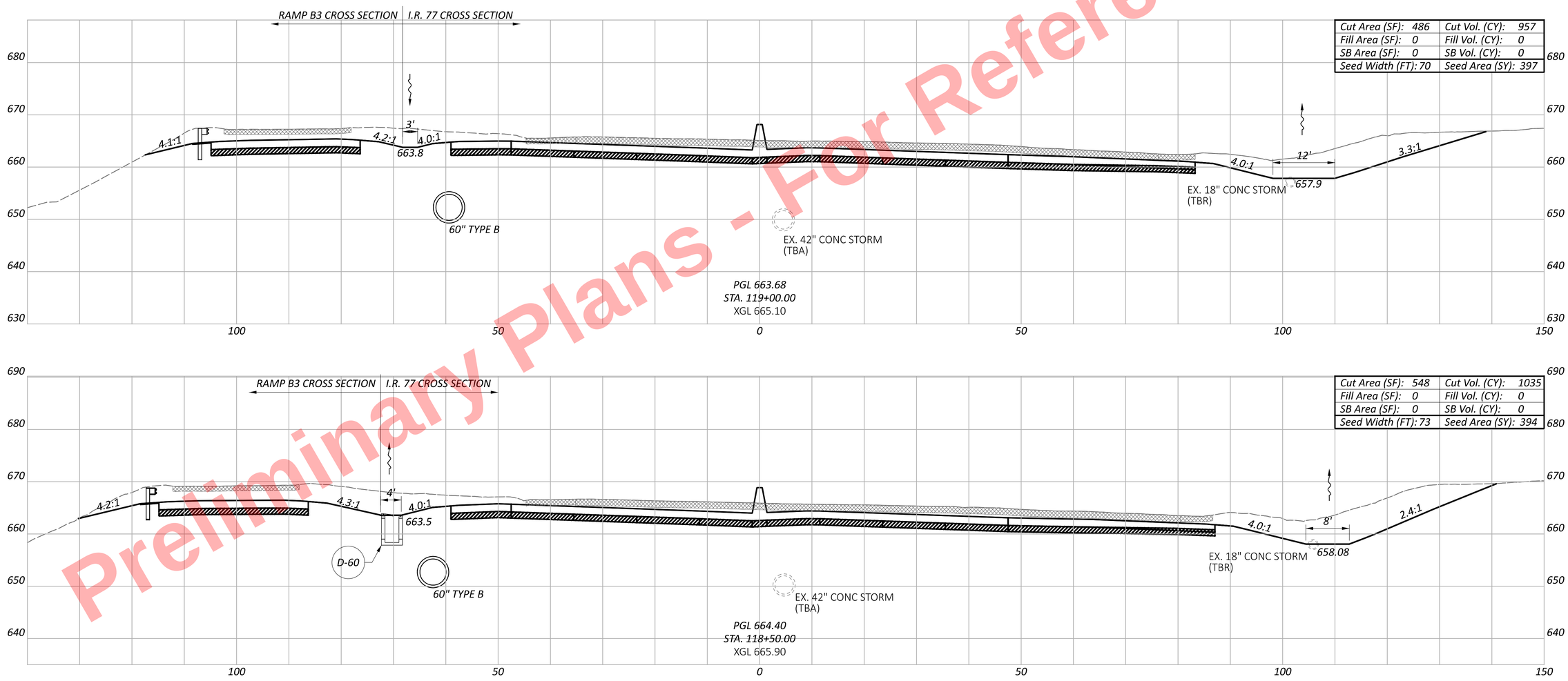
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.394 | TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 118+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:48 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 118+50.00 TO STA. 119+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
791	1992	0	0

DESIGN AGENCY
HNTB

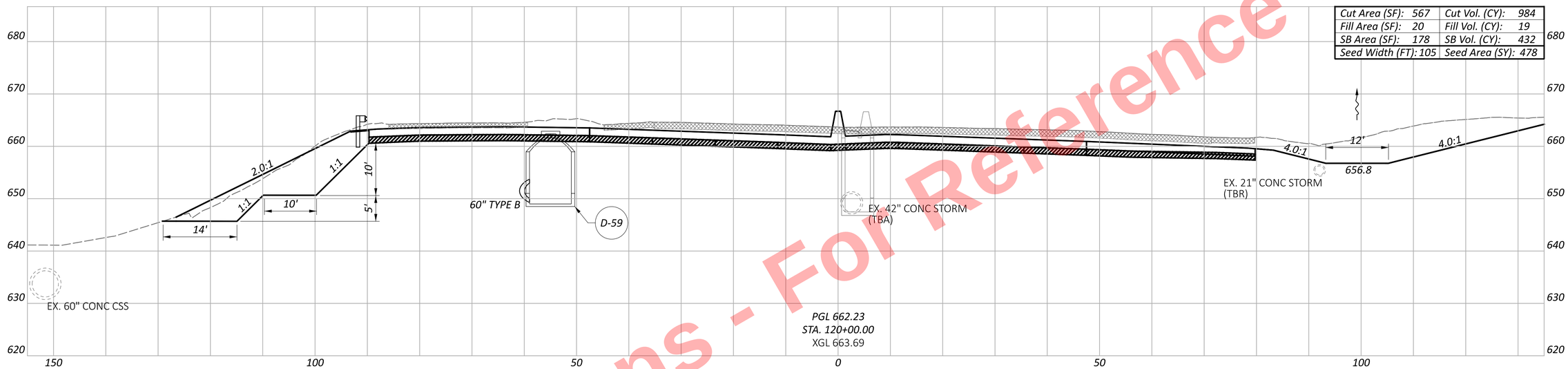
DESIGNER
EAP

REVIEWER
MTR 04/01/22

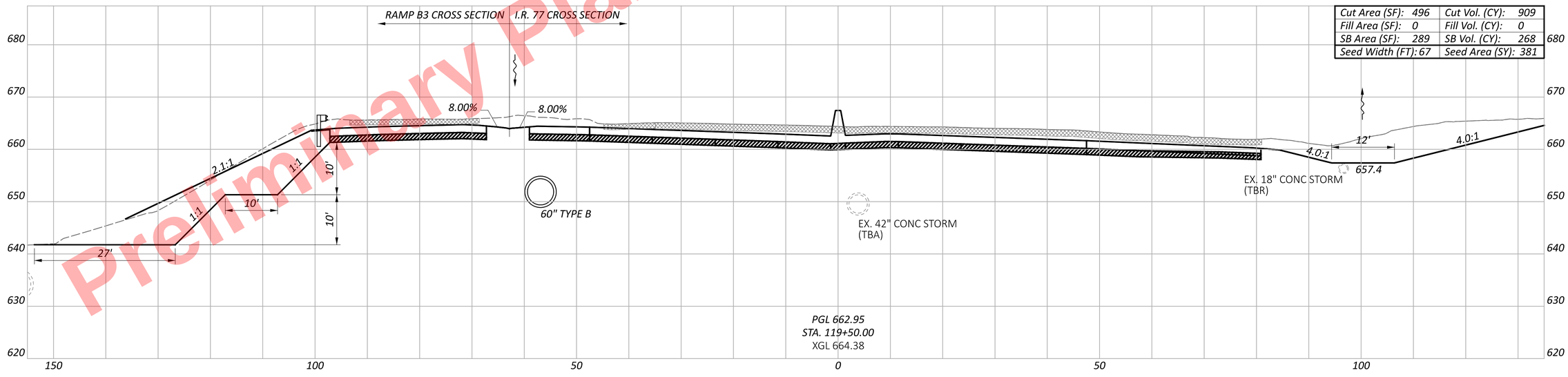
PROJECT ID
105743

SHEET P.395 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	567	Cut Vol. (CY):	984
Fill Area (SF):	20	Fill Vol. (CY):	19
SB Area (SF):	178	SB Vol. (CY):	432
Seed Width (FT):	105	Seed Area (SY):	478



Cut Area (SF):	496	Cut Vol. (CY):	909
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	289	SB Vol. (CY):	268
Seed Width (FT):	67	Seed Area (SY):	381

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 119+50.00 TO STA. 120+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
859	1893	19	700

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

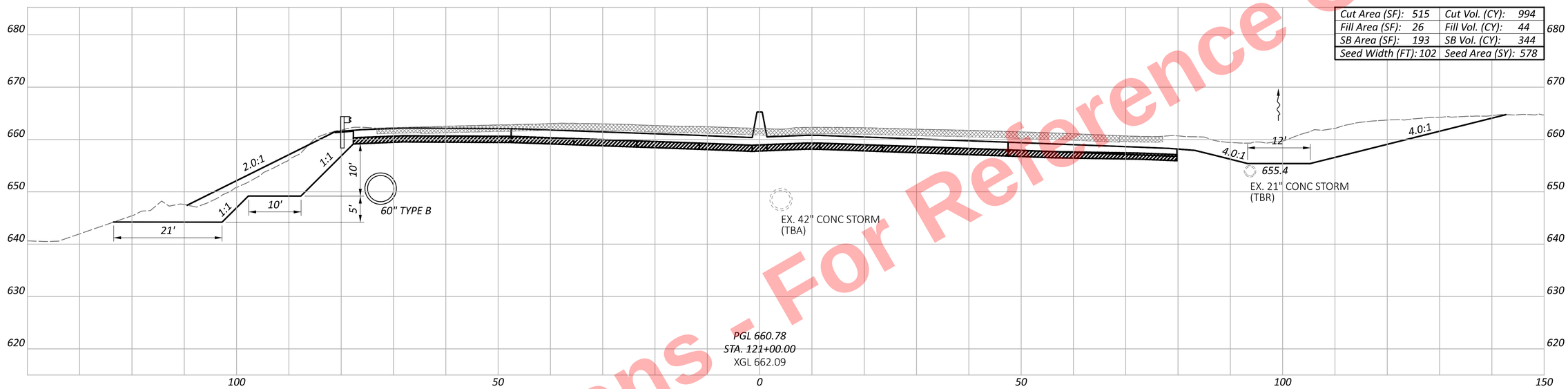
PROJECT ID
105743

SHEET P.396 TOTAL P.1269

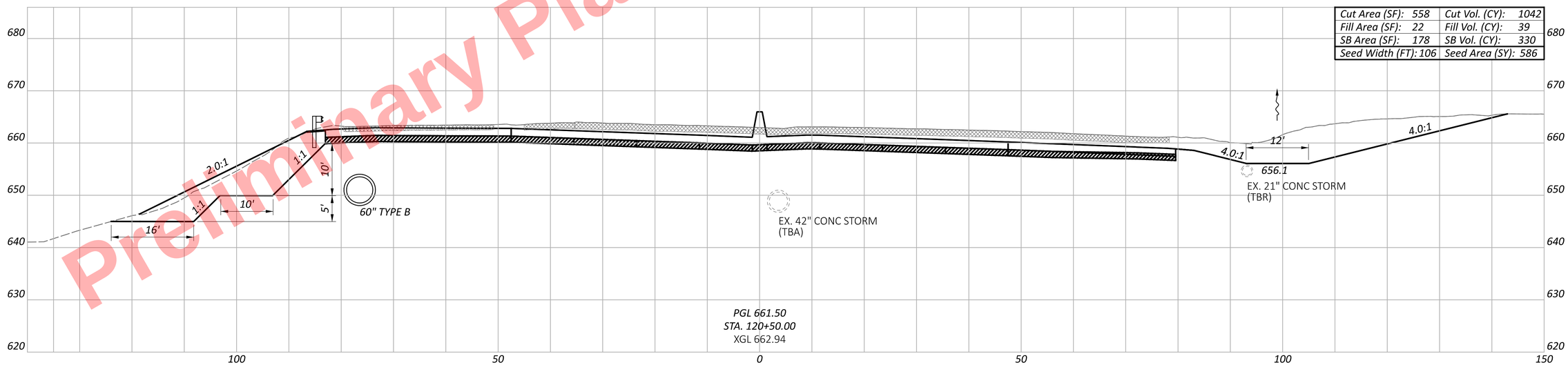
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 119+50.00-1-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:34:54 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	515	Cut Vol. (CY):	994
Fill Area (SF):	26	Fill Vol. (CY):	44
SB Area (SF):	193	SB Vol. (CY):	344
Seed Width (FT):	102	Seed Area (SY):	578



Cut Area (SF):	558	Cut Vol. (CY):	1042
Fill Area (SF):	22	Fill Vol. (CY):	39
SB Area (SF):	178	SB Vol. (CY):	330
Seed Width (FT):	106	Seed Area (SY):	586

Preliminary Plans - Not For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 120+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:35:00 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\S - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

CROSS SECTIONS - I.R. 77
STA. 120+50.00 TO STA. 121+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

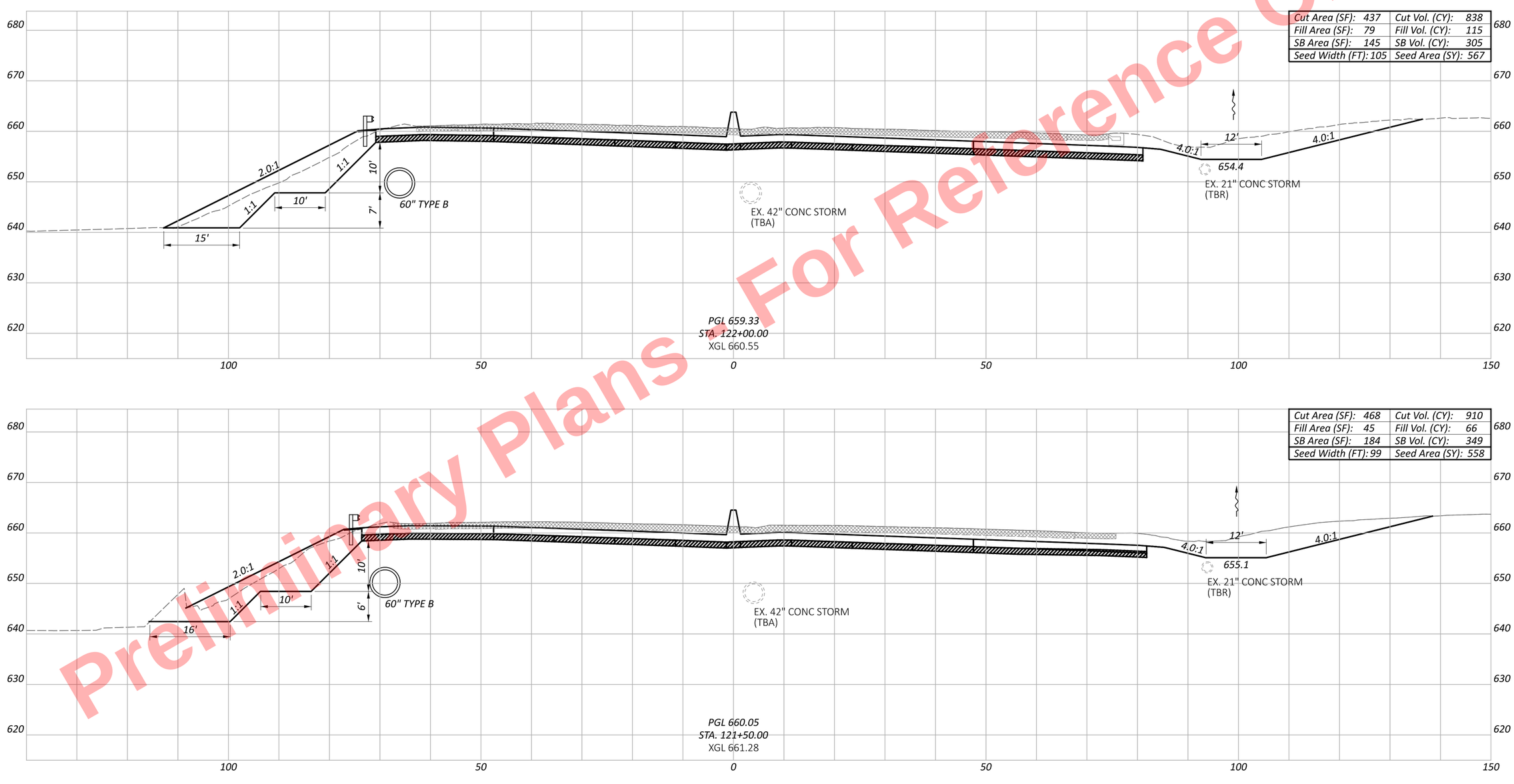
REVIEWER
MTR 04/01/22

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1164	2036	83	674

SHEET	TOTAL
P.397	P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	437	Cut Vol. (CY):	838
Fill Area (SF):	79	Fill Vol. (CY):	115
SB Area (SF):	145	SB Vol. (CY):	305
Seed Width (FT):	105	Seed Area (SY):	567

Cut Area (SF):	468	Cut Vol. (CY):	910
Fill Area (SF):	45	Fill Vol. (CY):	66
SB Area (SF):	184	SB Vol. (CY):	349
Seed Width (FT):	99	Seed Area (SY):	558

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 121+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:35:06 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\S - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS101.dgn

CROSS SECTIONS - I.R. 77
STA. 121+50.00 TO STA. 122+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

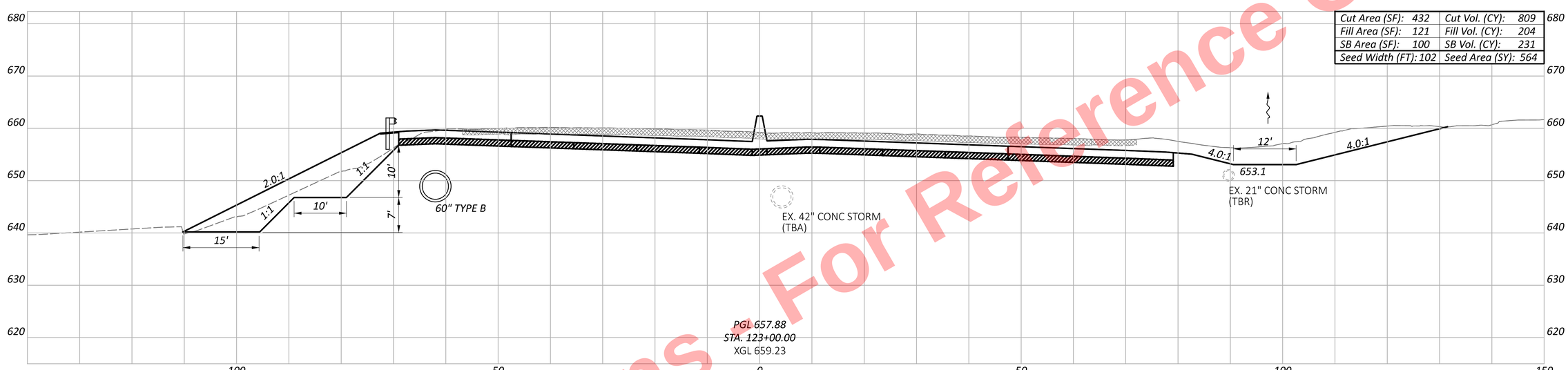
REVIEWER
MTR 04/01/22

PROJECT ID
105743

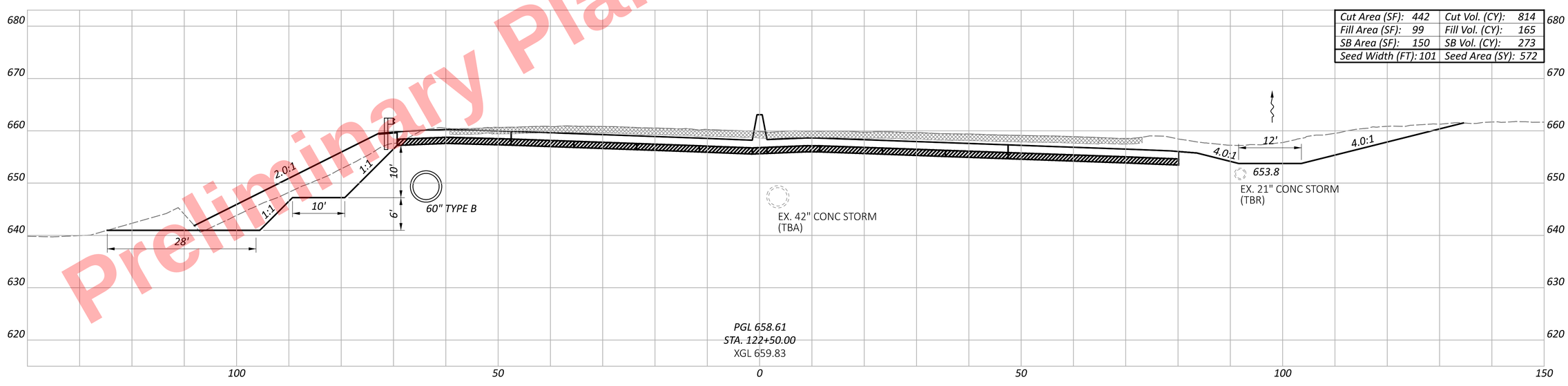
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1125	1748	181	654

SHEET P.398 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	432	Cut Vol. (CY):	809
Fill Area (SF):	121	Fill Vol. (CY):	204
SB Area (SF):	100	SB Vol. (CY):	231
Seed Width (FT):	102	Seed Area (SY):	564



Cut Area (SF):	442	Cut Vol. (CY):	814
Fill Area (SF):	99	Fill Vol. (CY):	165
SB Area (SF):	150	SB Vol. (CY):	273
Seed Width (FT):	101	Seed Area (SY):	572

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 122+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:35:12 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 122+50.00 TO STA. 123+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

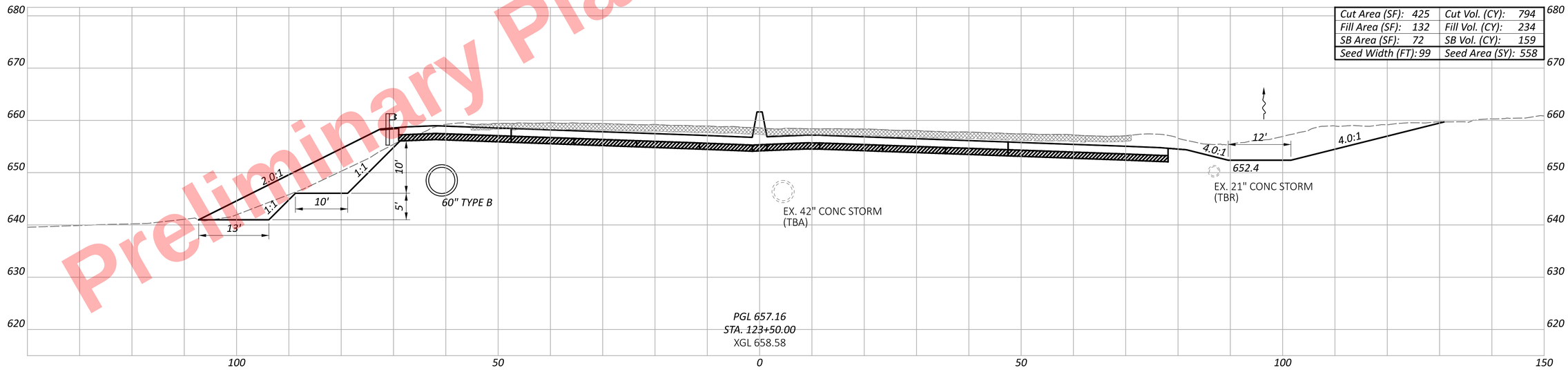
PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1136	1623	369	504

SHEET	TOTAL
P.399	P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF):	425	Cut Vol. (CY):	794
Fill Area (SF):	132	Fill Vol. (CY):	234
SB Area (SF):	72	SB Vol. (CY):	159
Seed Width (FT):	99	Seed Area (SY):	558

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
558	794	234	159

CUY-77-11.41 - PART 1

CROSS SECTIONS - I.R. 77
STA. 123+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.400 | TOTAL P.1269

MODEL: CLP_I077 - 123+50.00-A PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:35:18 AM USER: kperkins
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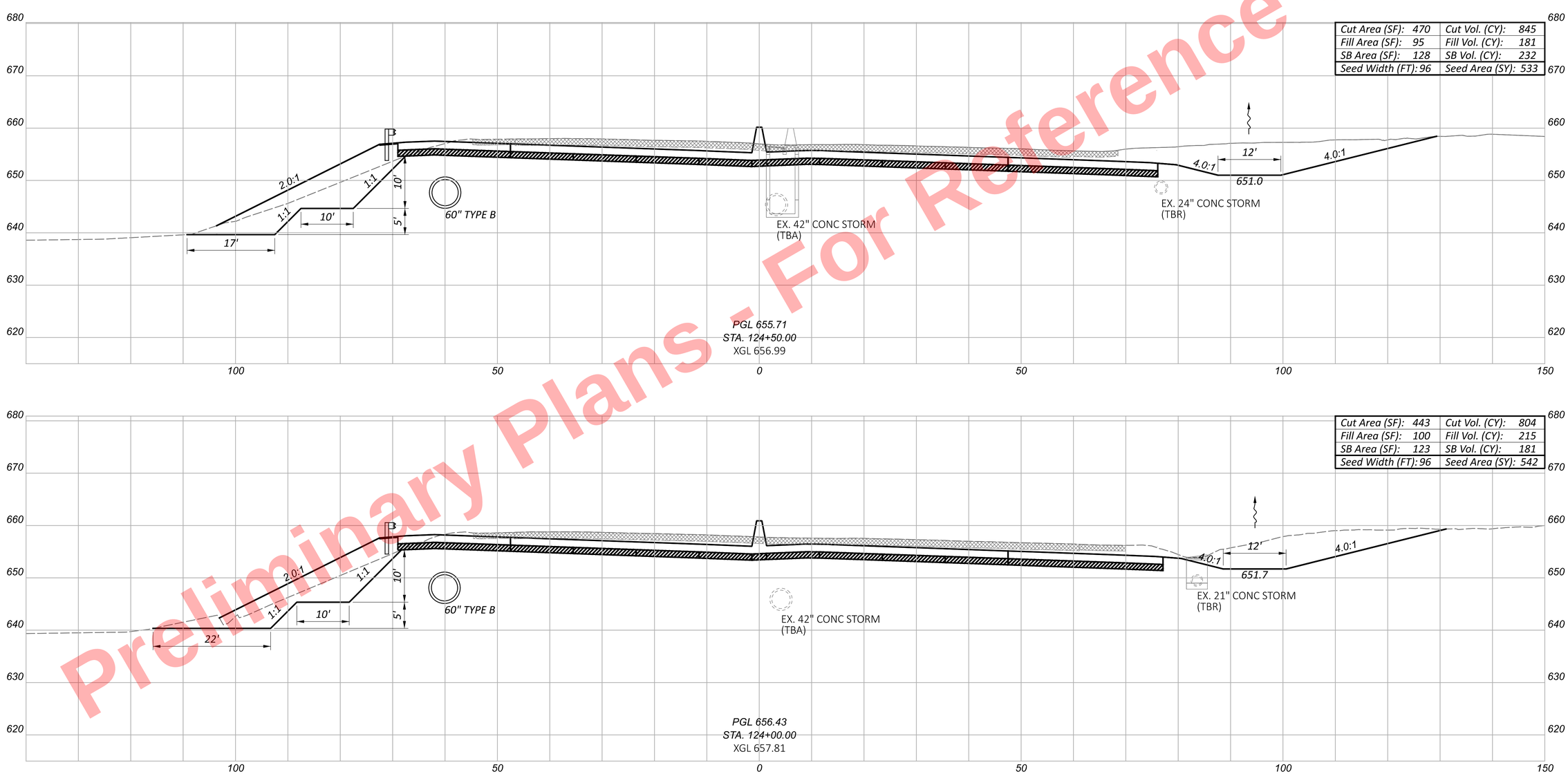
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 124+00.00 TO STA. 124+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1075	1649	396	413

DESIGN AGENCY
HNTB

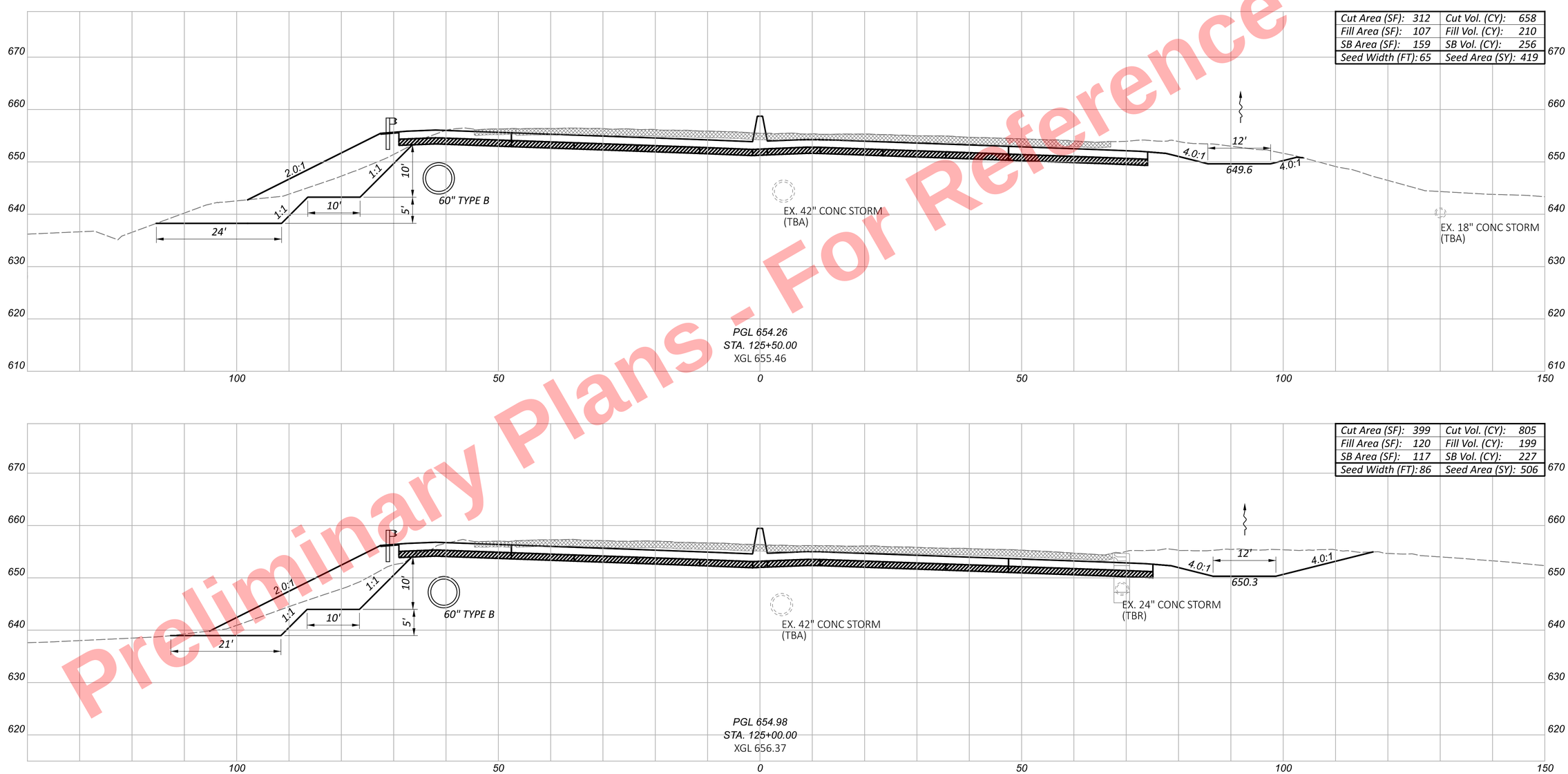
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.401 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 125+00.00 TO STA. 125+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
925	1463	409	483

DESIGN AGENCY
HNTB

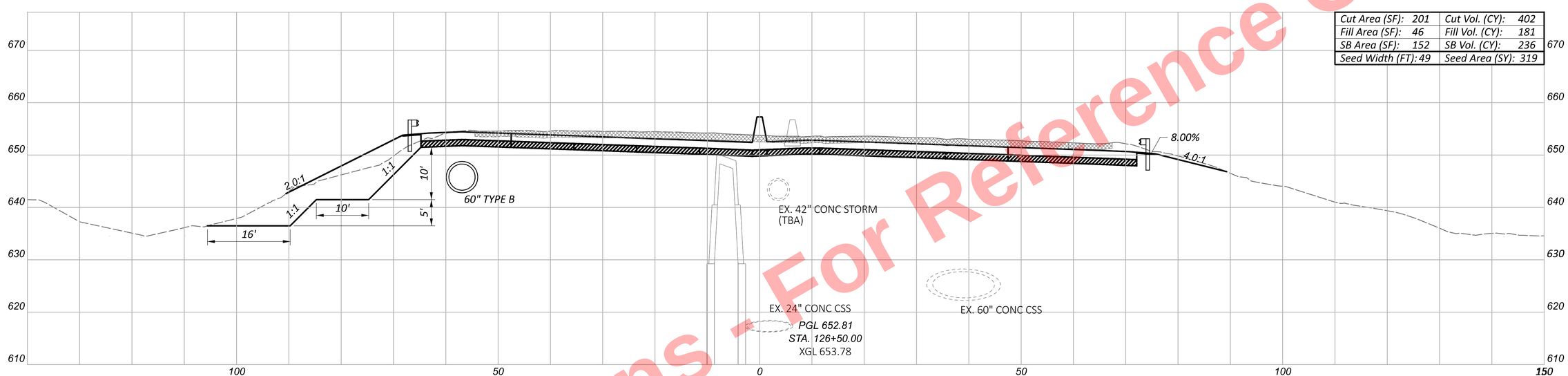
DESIGNER
EAP

REVIEWER
MTR 04/01/22

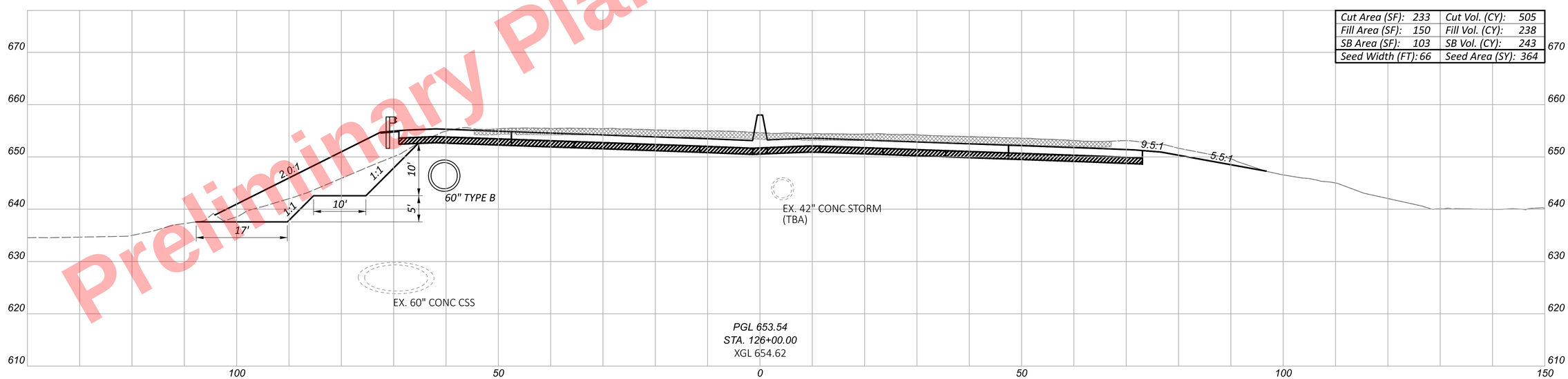
PROJECT ID
105743

SHEET P.402 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 201	Cut Vol. (CY): 402
Fill Area (SF): 46	Fill Vol. (CY): 181
SB Area (SF): 152	SB Vol. (CY): 236
Seed Width (FT): 49	Seed Area (SY): 319



Cut Area (SF): 233	Cut Vol. (CY): 505
Fill Area (SF): 150	Fill Vol. (CY): 238
SB Area (SF): 103	SB Vol. (CY): 243
Seed Width (FT): 66	Seed Area (SY): 364

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 126+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:36:11 AM USER: kperkins
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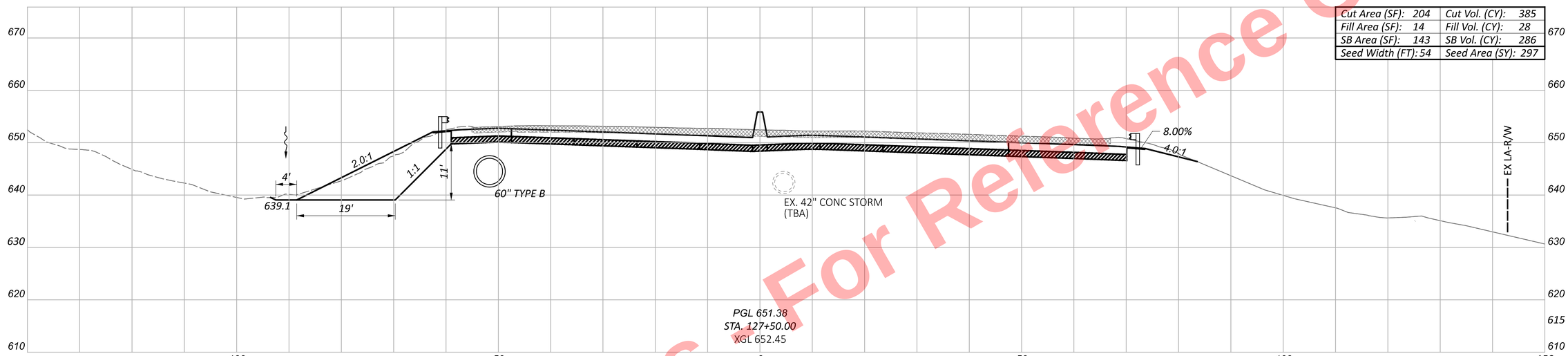
CROSS SECTIONS - I.R. 77
STA. 126+00.00 TO STA. 126+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
683	907	419	479

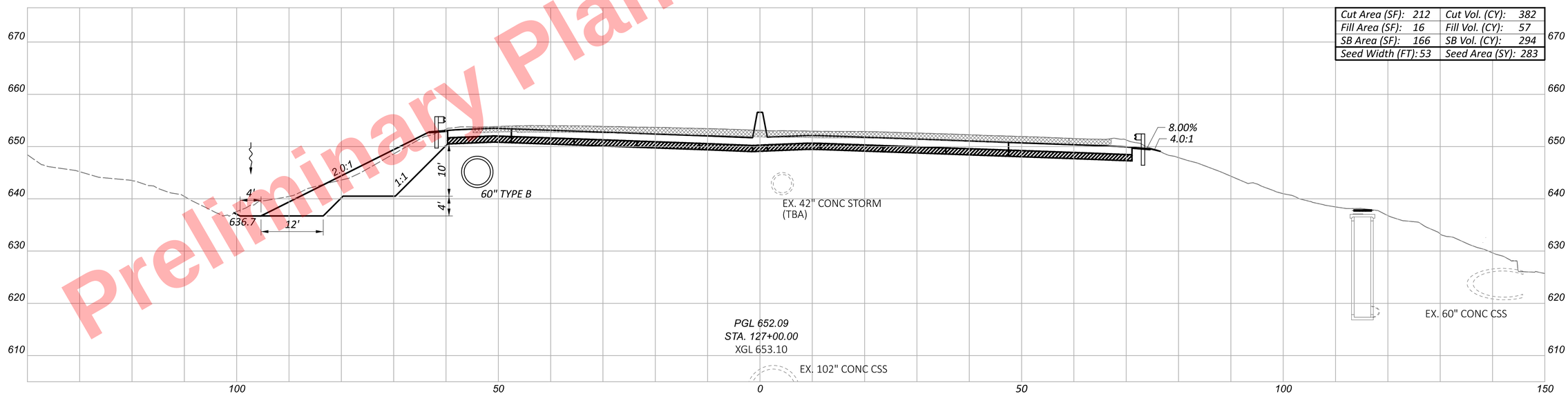
DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.403 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	204	Cut Vol. (CY):	385
Fill Area (SF):	14	Fill Vol. (CY):	28
SB Area (SF):	143	SB Vol. (CY):	286
Seed Width (FT):	54	Seed Area (SY):	297



Cut Area (SF):	212	Cut Vol. (CY):	382
Fill Area (SF):	16	Fill Vol. (CY):	57
SB Area (SF):	166	SB Vol. (CY):	294
Seed Width (FT):	53	Seed Area (SY):	283

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 127+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:36:16 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 127+00.00 TO STA. 127+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
580	767	85	580

DESIGN AGENCY
HNTB

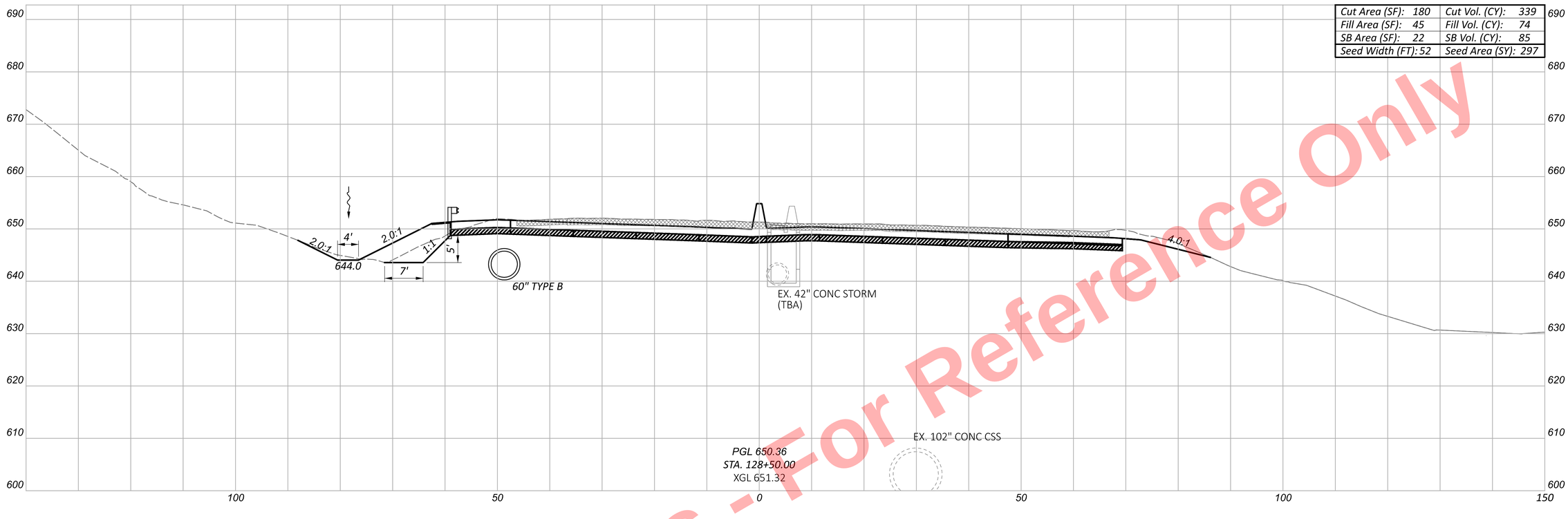
DESIGNER
EAP

REVIEWER
MTR 04/01/22

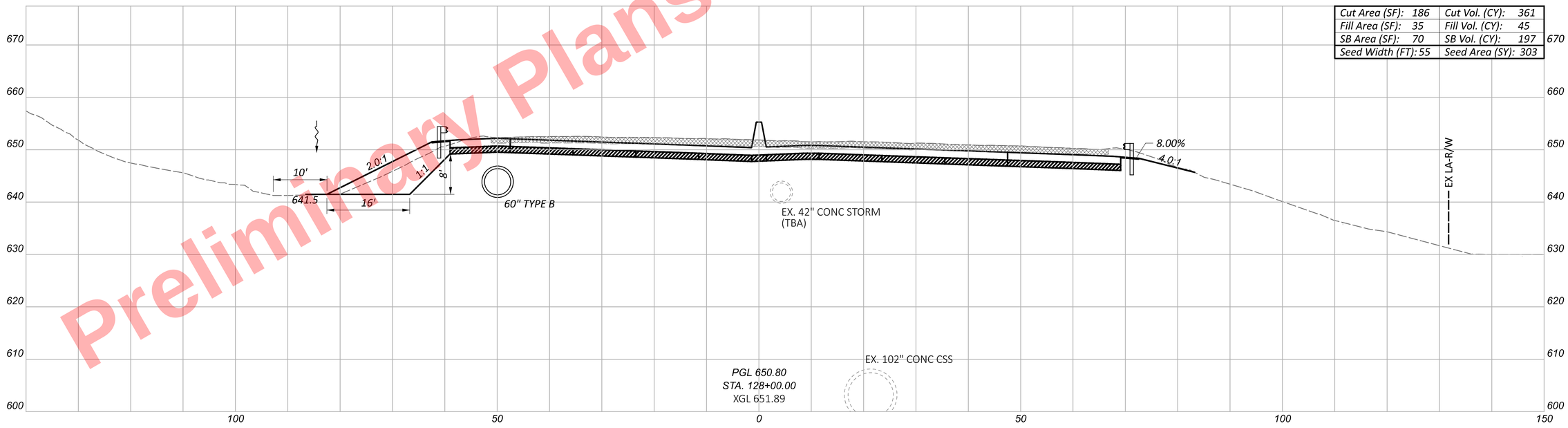
PROJECT ID
105743

SHEET P.404 | TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	180	Cut Vol. (CY):	339
Fill Area (SF):	45	Fill Vol. (CY):	74
SB Area (SF):	22	SB Vol. (CY):	85
Seed Width (FT):	52	Seed Area (SY):	297



Cut Area (SF):	186	Cut Vol. (CY):	361
Fill Area (SF):	35	Fill Vol. (CY):	45
SB Area (SF):	70	SB Vol. (CY):	197
Seed Width (FT):	55	Seed Area (SY):	303

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
600	700	119	282

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 128+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:36:22 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 128+00.00 TO STA. 128+50.00

DESIGN AGENCY
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DESIGNER
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REVIEWER
MTR 04/01/22

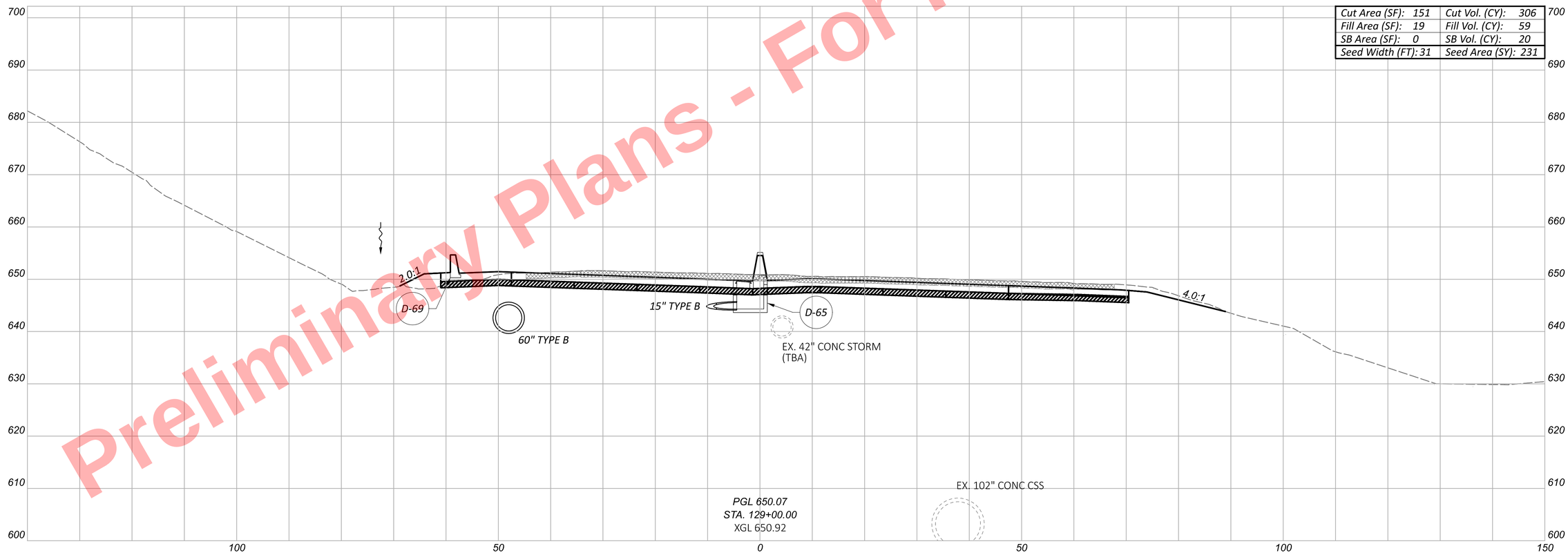
PROJECT ID
105743

SHEET	TOTAL
P.405	P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only

Cut Area (SF):	151	Cut Vol. (CY):	306
Fill Area (SF):	19	Fill Vol. (CY):	59
SB Area (SF):	0	SB Vol. (CY):	20
Seed Width (FT):	31	Seed Area (SY):	231



CUY-77-11.41 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 129+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

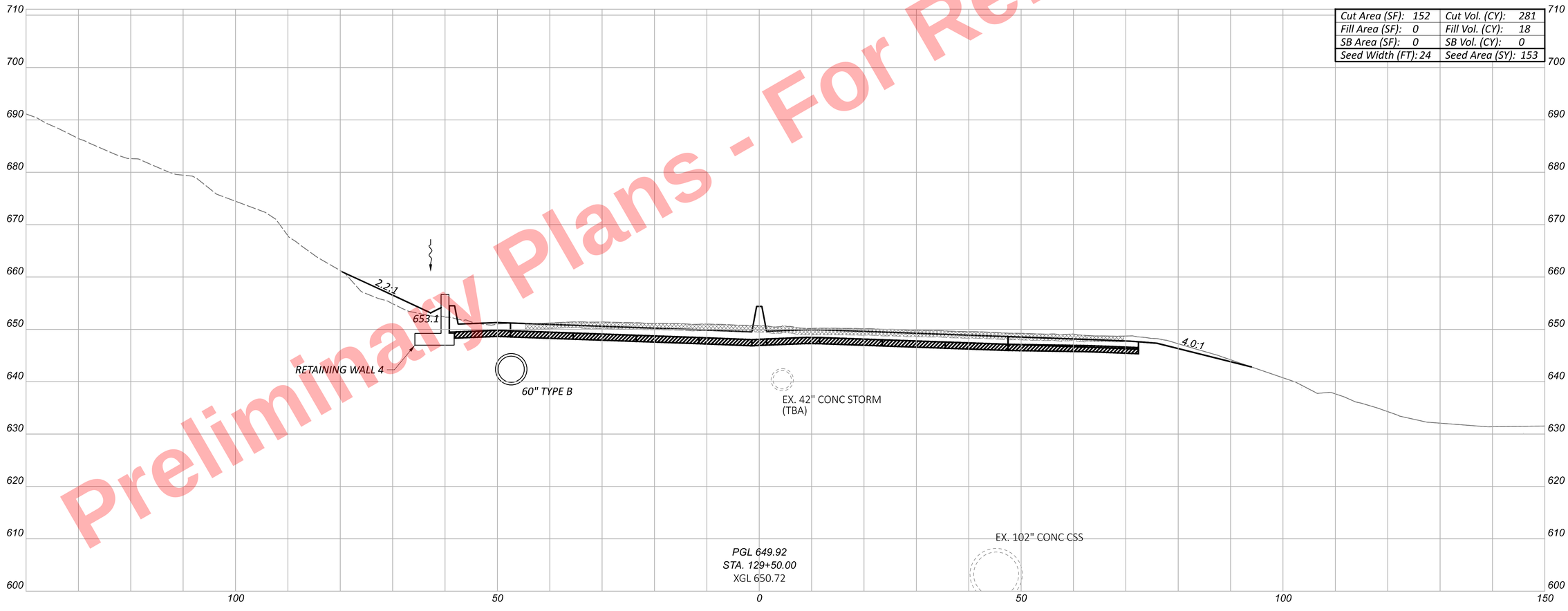
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
231	306	59	20

SHEET	TOTAL
P.406	P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only

Cut Area (SF): 152	Cut Vol. (CY): 281
Fill Area (SF): 0	Fill Vol. (CY): 18
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 24	Seed Area (SY): 153



CUY-77-11.41 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 129+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

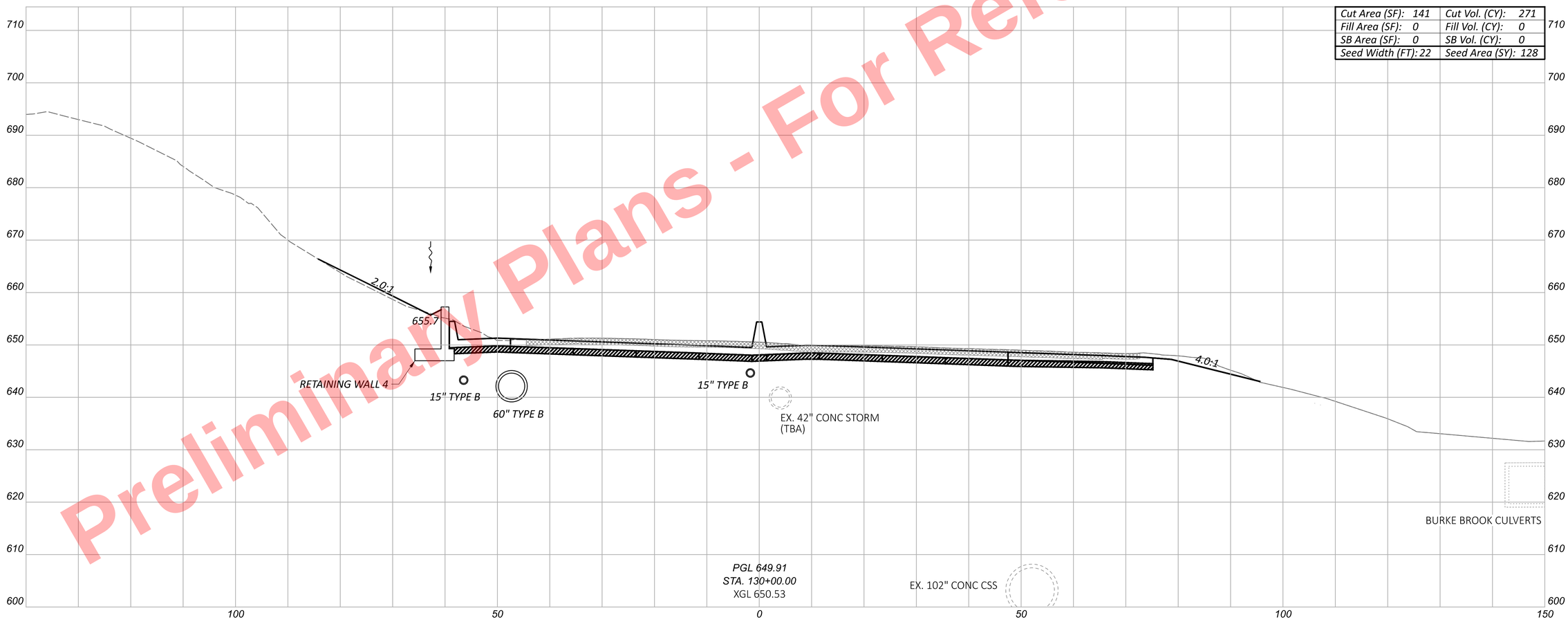
PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
153	281	18	0

SHEET P.407 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Cut Area (SF): 141	Cut Vol. (CY): 271
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 22	Seed Area (SY): 128



Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 130+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
128	271	0	0

SHEET P.408 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 130+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:36:33 AM USER: kperkins
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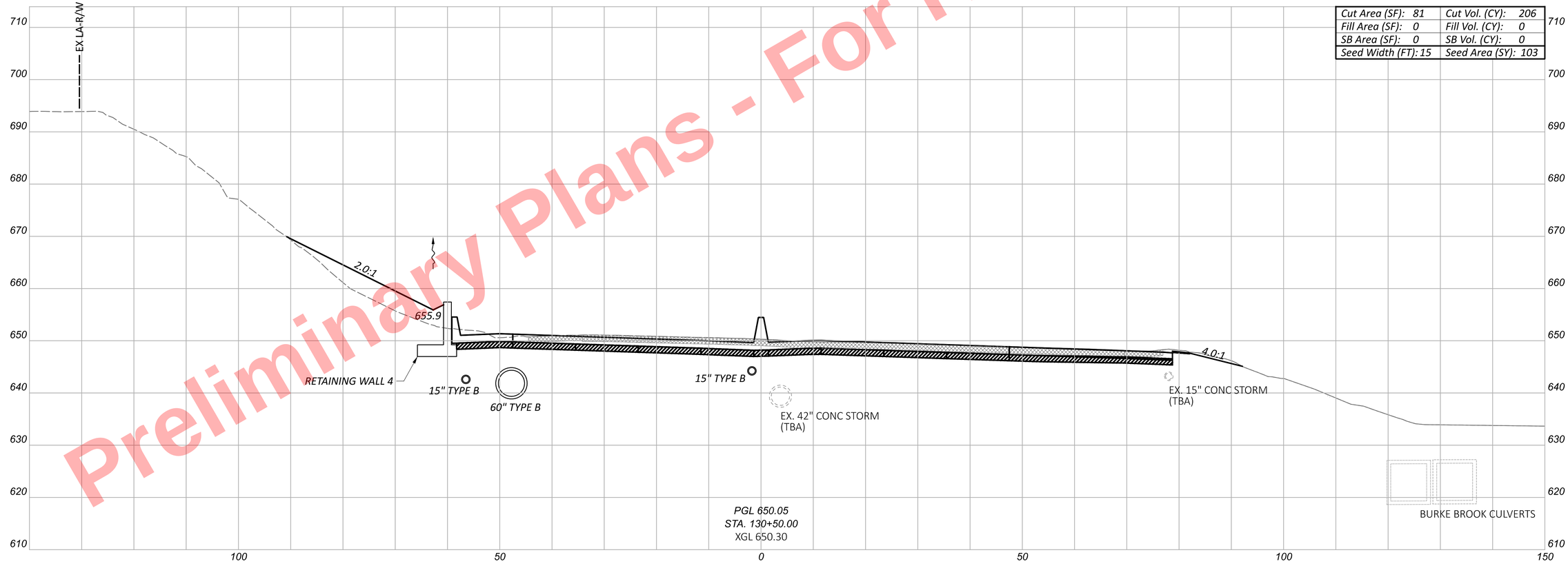
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF):	81	Cut Vol. (CY):	206
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	15	Seed Area (SY):	103

CROSS SECTIONS - I.R. 77
STA. 130+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
103	206	0	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.409 TOTAL P.1269

CUY-77-11.41 - PART 1

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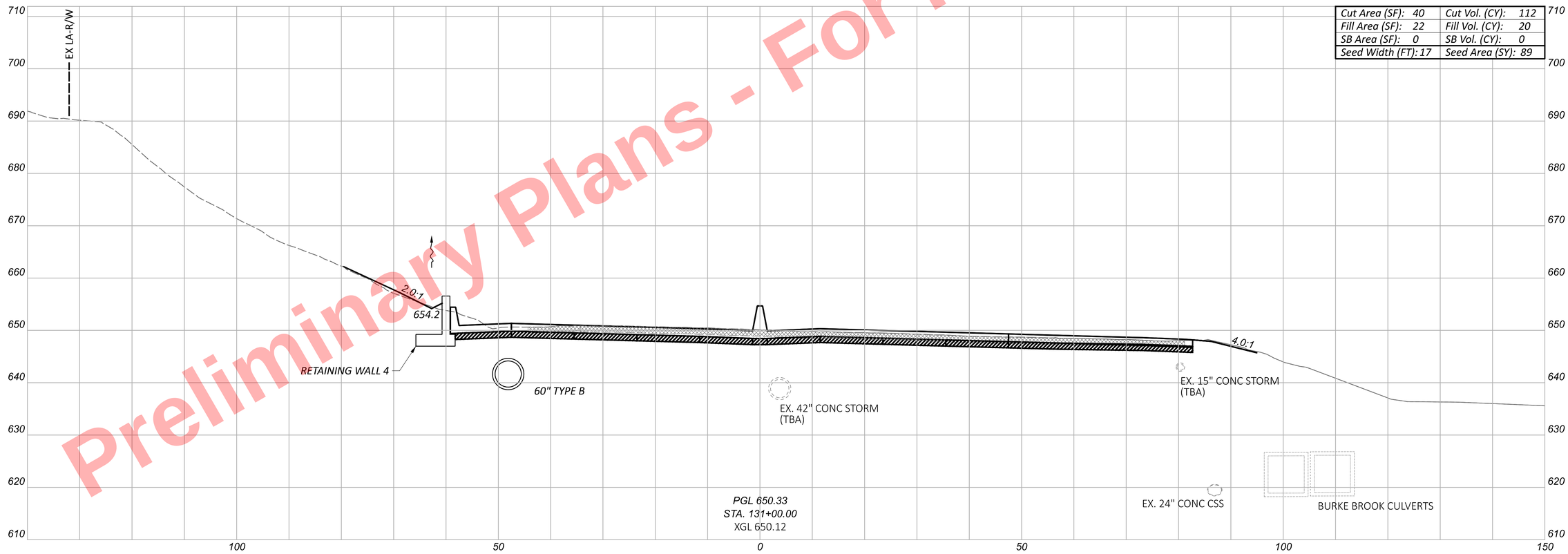
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF):	40	Cut Vol. (CY):	112
Fill Area (SF):	22	Fill Vol. (CY):	20
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	17	Seed Area (SY):	89

CROSS SECTIONS - I.R. 77
STA. 131+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
89	112	20	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.410 TOTAL P.1269

CUY-77-11.41 - PART 1

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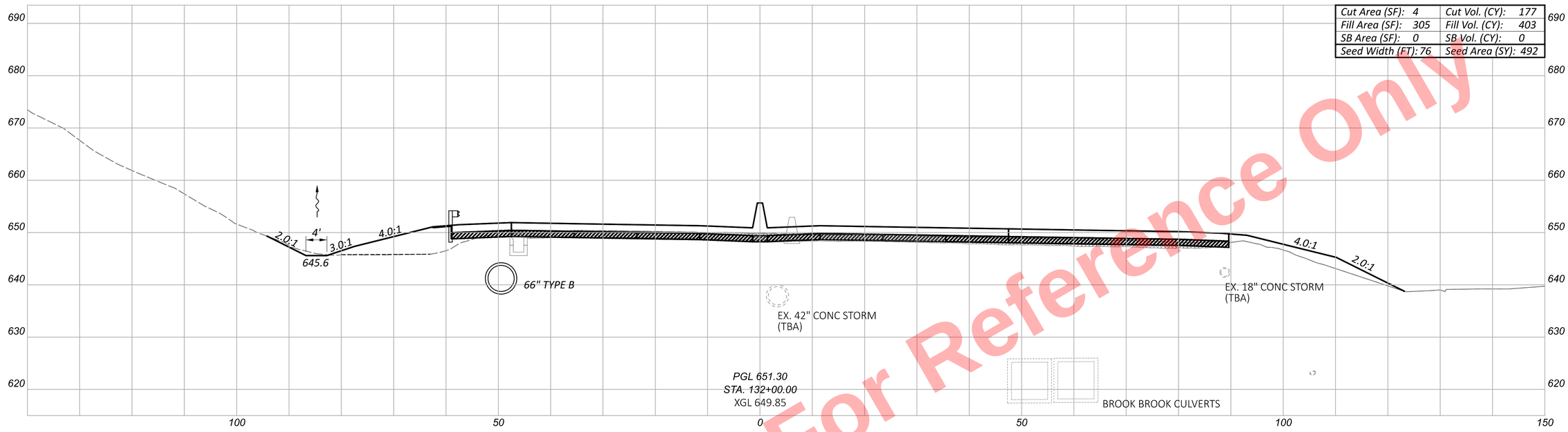
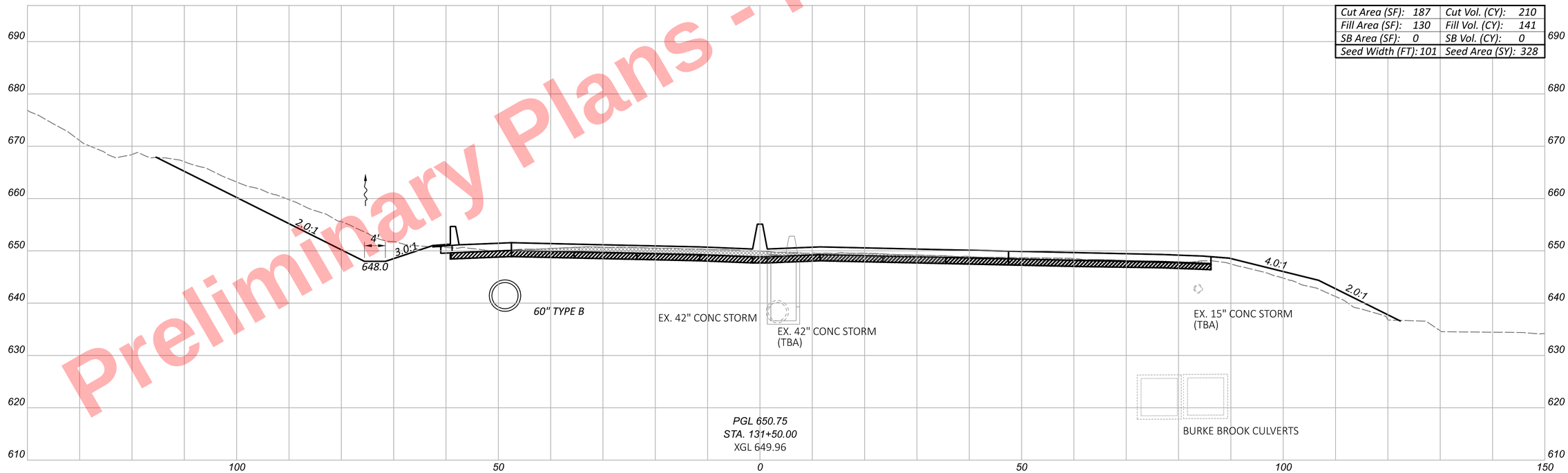
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	4	Cut Vol. (CY):	177
Fill Area (SF):	305	Fill Vol. (CY):	403
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	76	Seed Area (SY):	492



Cut Area (SF):	187	Cut Vol. (CY):	210
Fill Area (SF):	130	Fill Vol. (CY):	141
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	101	Seed Area (SY):	328

Preliminary Plans - Not For Reference Only

CROSS SECTIONS - I.R. 77
STA. 131+50 TO STA. 132+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
820	387	544	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.411 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 131+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:36:42 AM USER: kperkins
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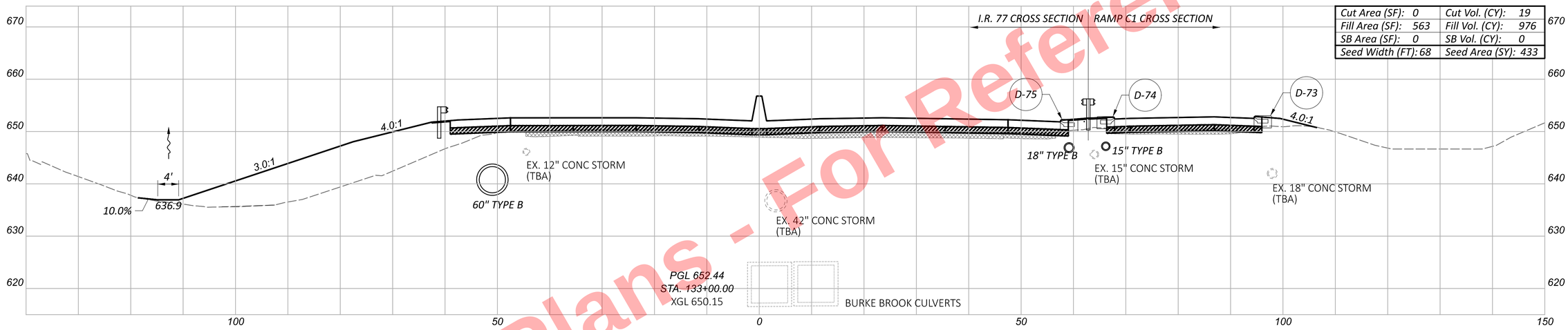
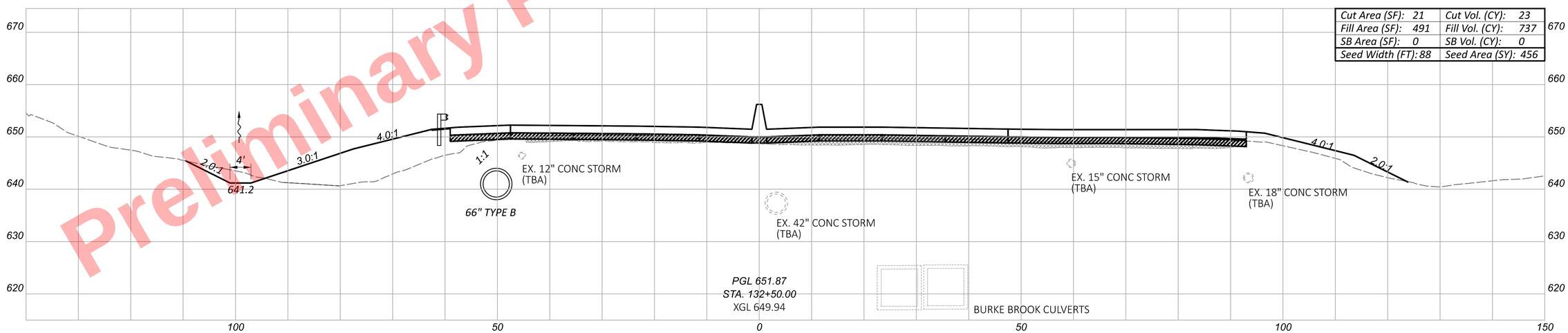
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 132+50.00 TO STA. 133+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
889	42	1713	0

DESIGN AGENCY: HNTB
DESIGNER: EAP
REVIEWER: MTR 04/01/22
PROJECT ID: 105743
SHEET: P.412 TOTAL: P.1269

CUY-77-11.41 - PART 1

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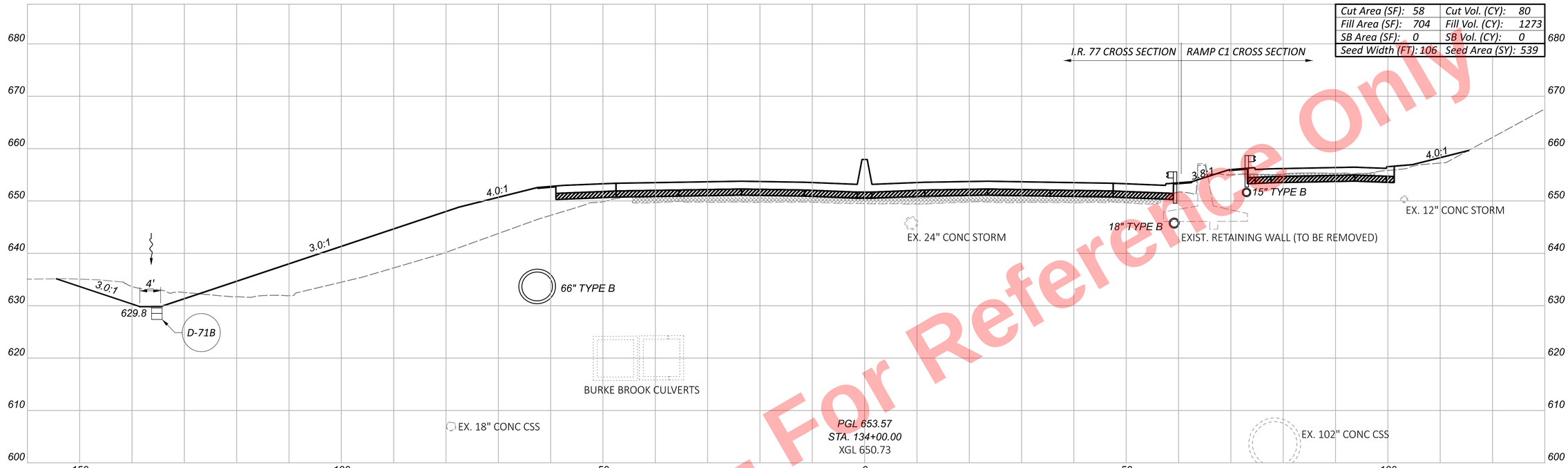
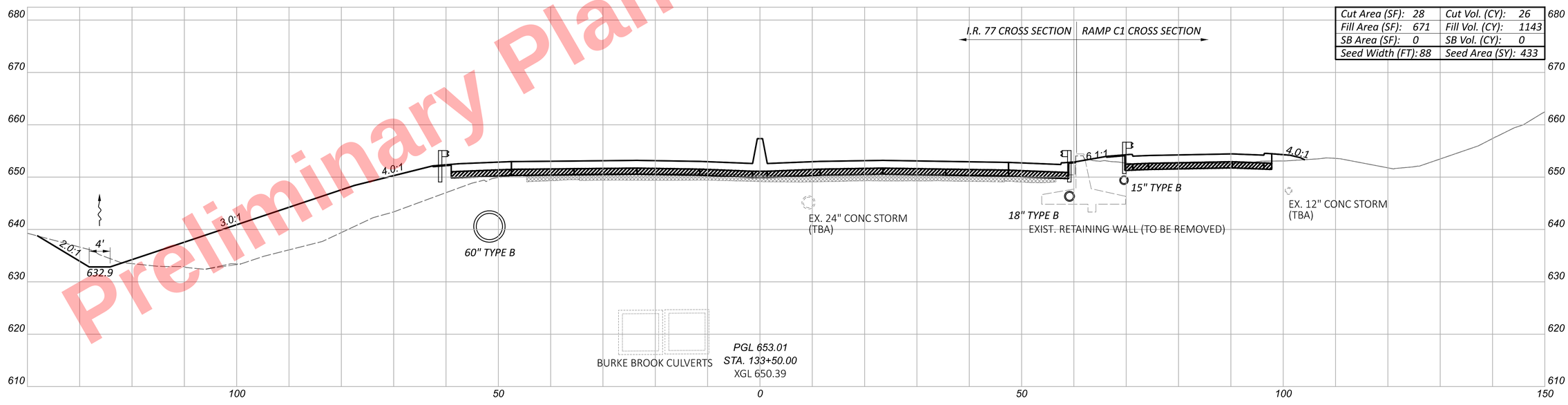
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 133+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:36:53 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 133+50.00 TO STA. 134+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
972	106	2416	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

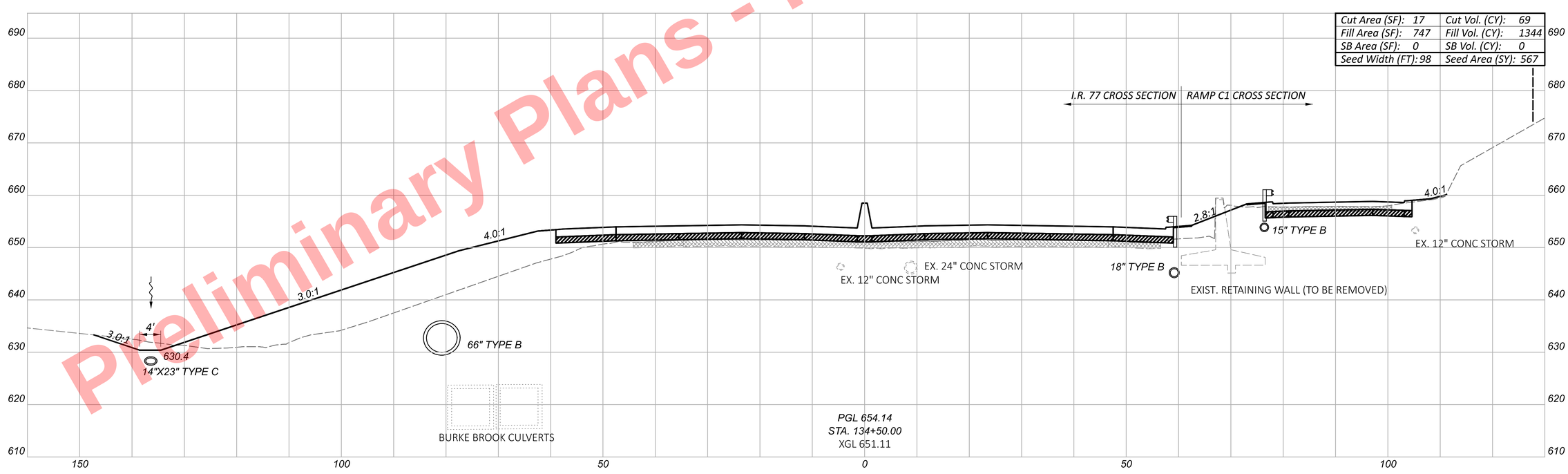
REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.413 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - Not For Reference Only



Cut Area (SF):	17	Cut Vol. (CY):	69
Fill Area (SF):	747	Fill Vol. (CY):	1344
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	98	Seed Area (SY):	567

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
567	69	1344	0

CUY-77-11.41 - PART 1

CROSS SECTIONS - I.R. 77
STA. 134+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.414 TOTAL P.1269

MODEL: CLP_I077 - 134+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:36:57 AM USER: kperkins
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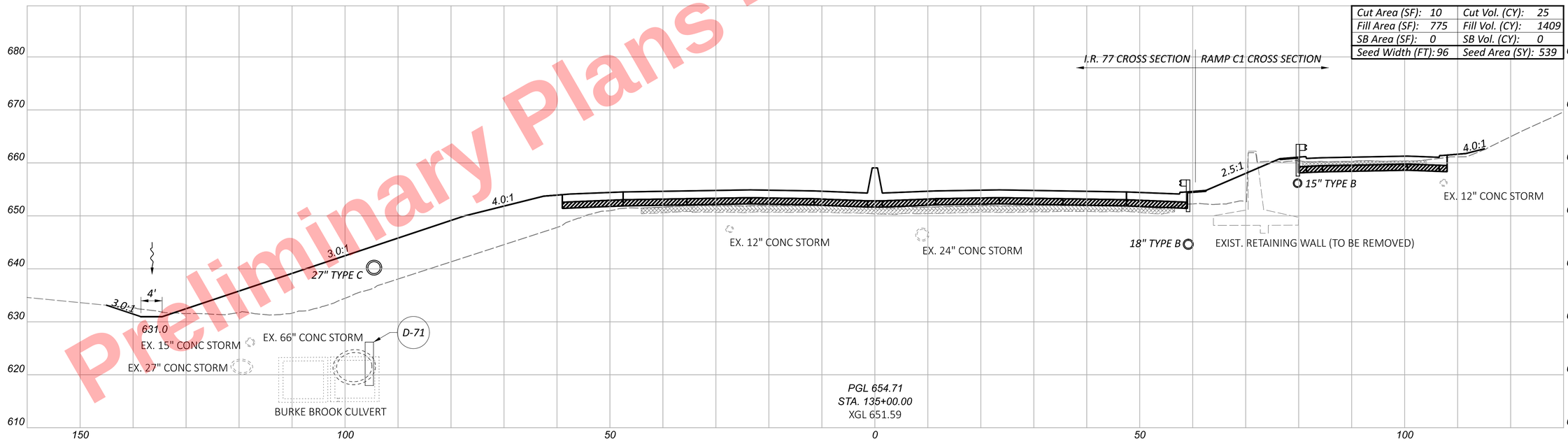
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



CUY-77-11.41 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 135+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
539	25	1409	0

DESIGN AGENCY
HNTB

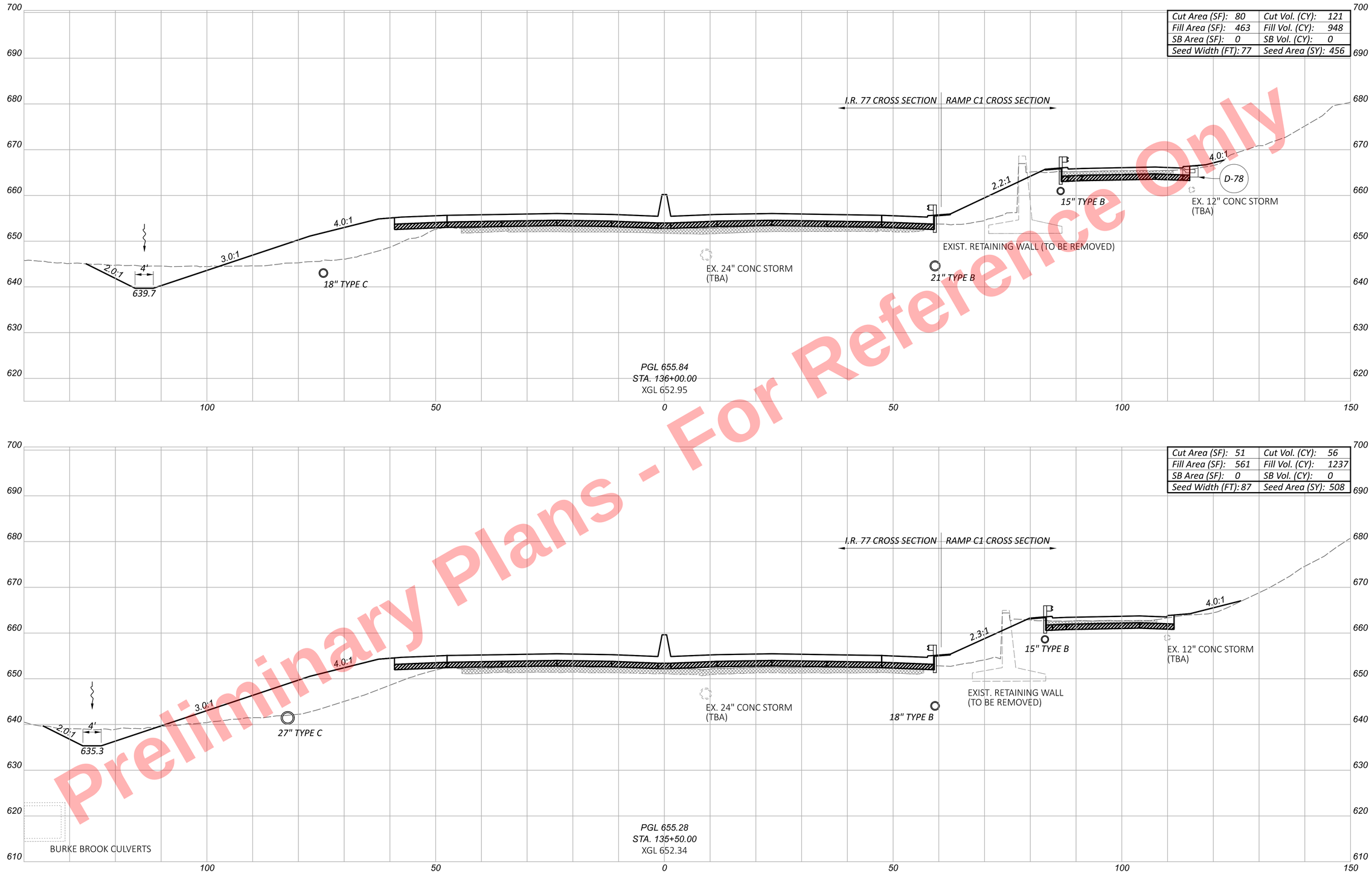
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.415 | TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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CROSS SECTIONS - I.R. 77
STA. 135+50.00 TO STA. 136+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
964	177	2185	0

DESIGN AGENCY
HNTB

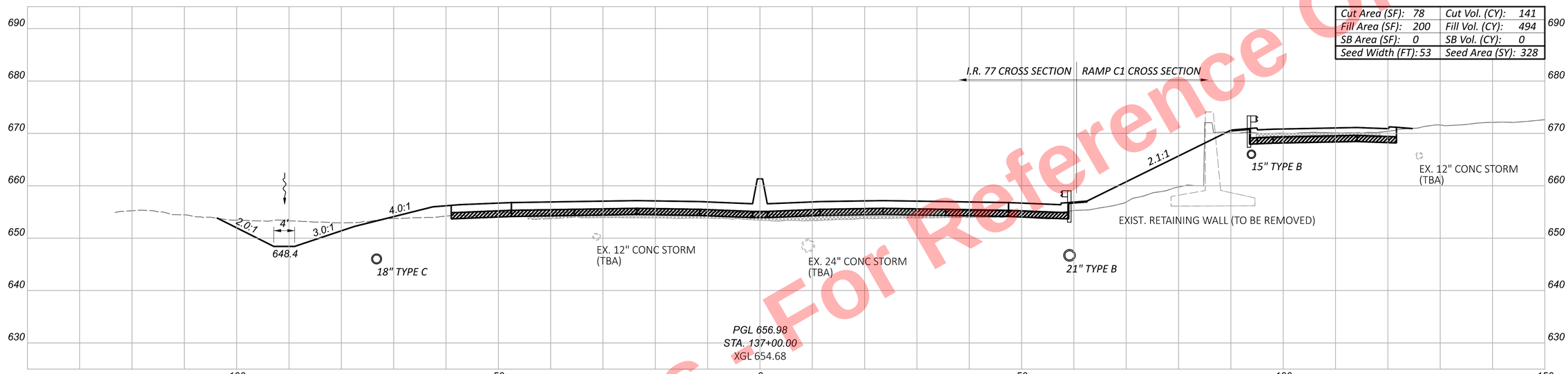
DESIGNER
EAP

REVIEWER
MTR 04/01/22

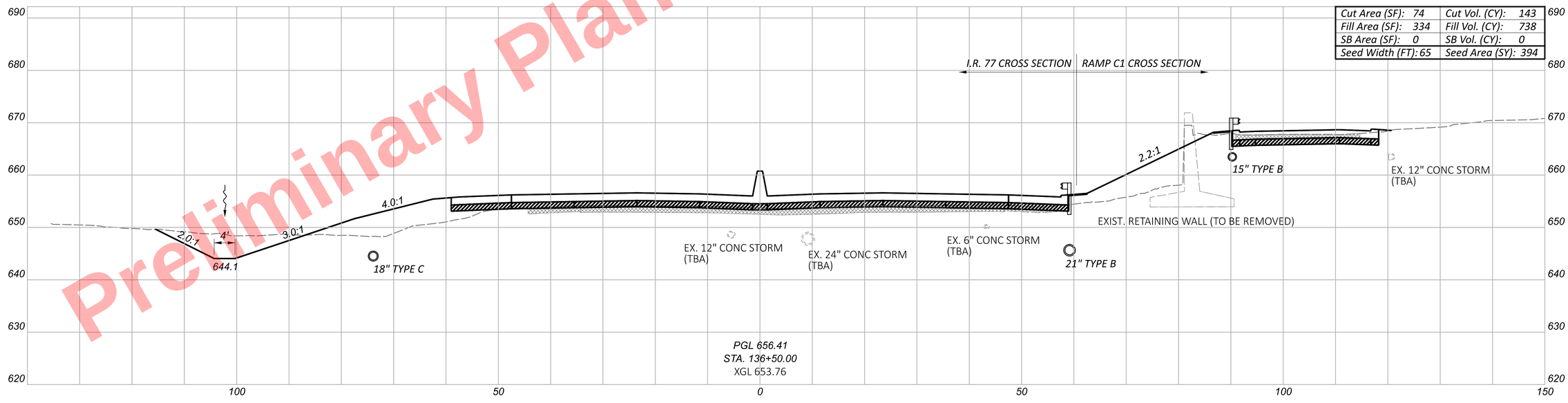
PROJECT ID
105743

SHEET P.416 | TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	78	Cut Vol. (CY):	141
Fill Area (SF):	200	Fill Vol. (CY):	494
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	53	Seed Area (SY):	328



Cut Area (SF):	74	Cut Vol. (CY):	143
Fill Area (SF):	334	Fill Vol. (CY):	738
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	65	Seed Area (SY):	394

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 136+50.00 TO STA. 137+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
722	284	1232	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.417 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 136+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:05 AM USER: kperkins
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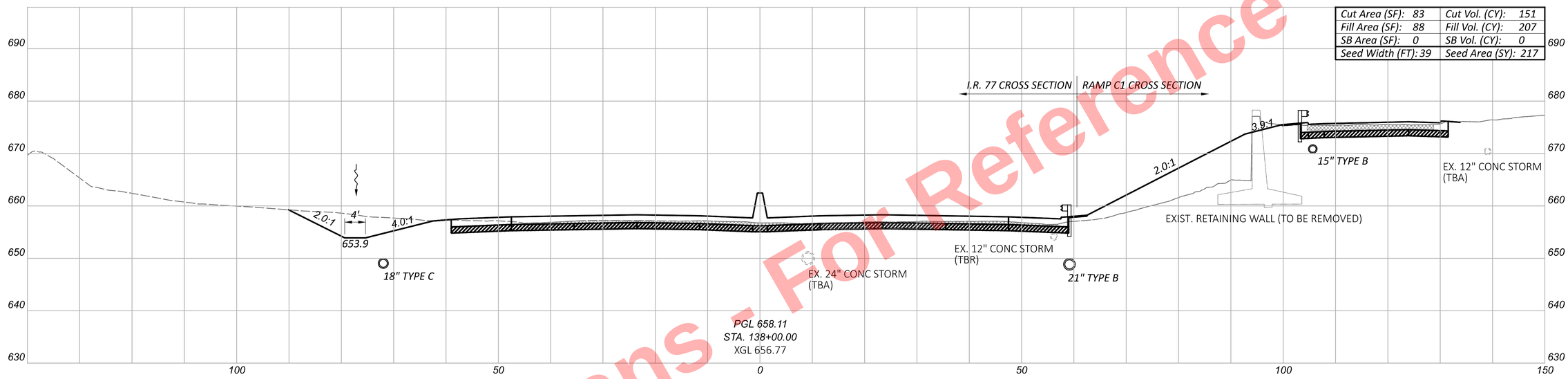
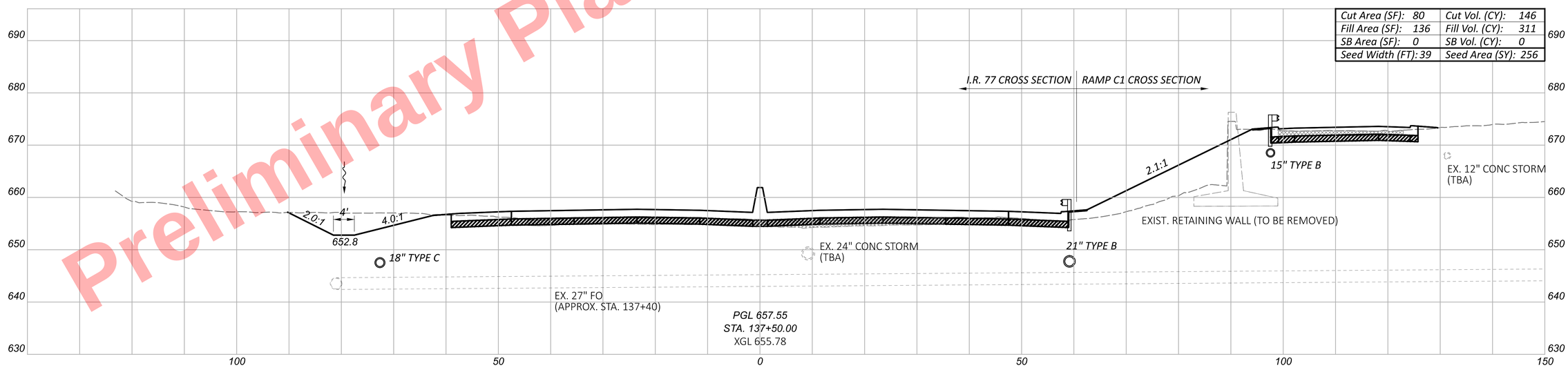
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	83	Cut Vol. (CY):	151
Fill Area (SF):	88	Fill Vol. (CY):	207
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	39	Seed Area (SY):	217



Cut Area (SF):	80	Cut Vol. (CY):	146
Fill Area (SF):	136	Fill Vol. (CY):	311
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	39	Seed Area (SY):	256

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 137+50.00 TO STA. 138+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
473	297	518	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.418 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 137+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:11 AM USER: kperkins
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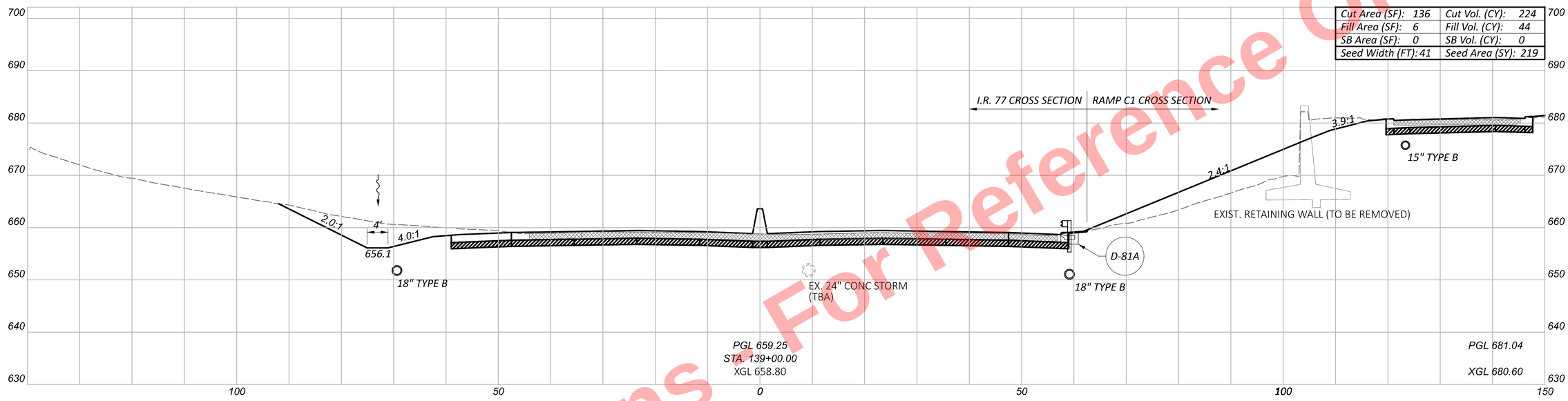
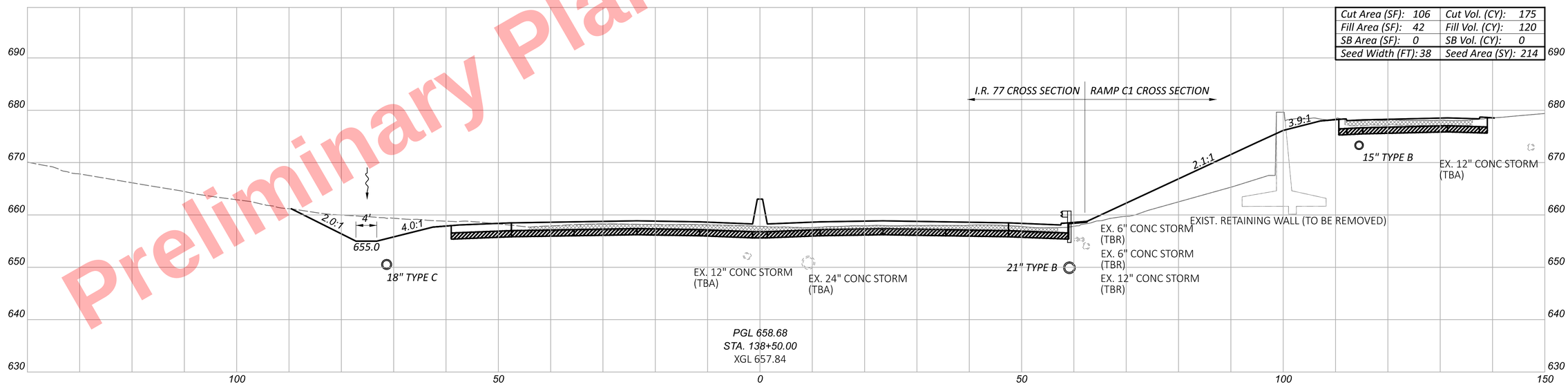
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 136	Cut Vol. (CY): 224
Fill Area (SF): 6	Fill Vol. (CY): 44
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 41	Seed Area (SY): 219



Cut Area (SF): 106	Cut Vol. (CY): 175
Fill Area (SF): 42	Fill Vol. (CY): 120
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 38	Seed Area (SY): 214

For Reference Only
Preliminary Plans - Not for Construction

CROSS SECTIONS - I.R. 77
STA. 138+50.00 TO STA. 139+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
433	399	164	0

SHEET P.419 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 138+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:17 AM USER: kperkins
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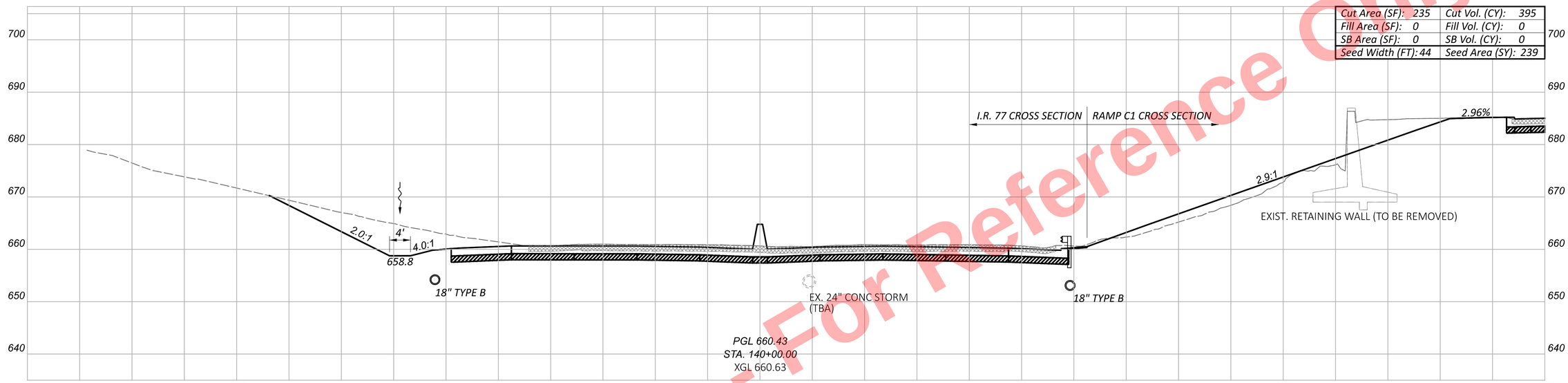
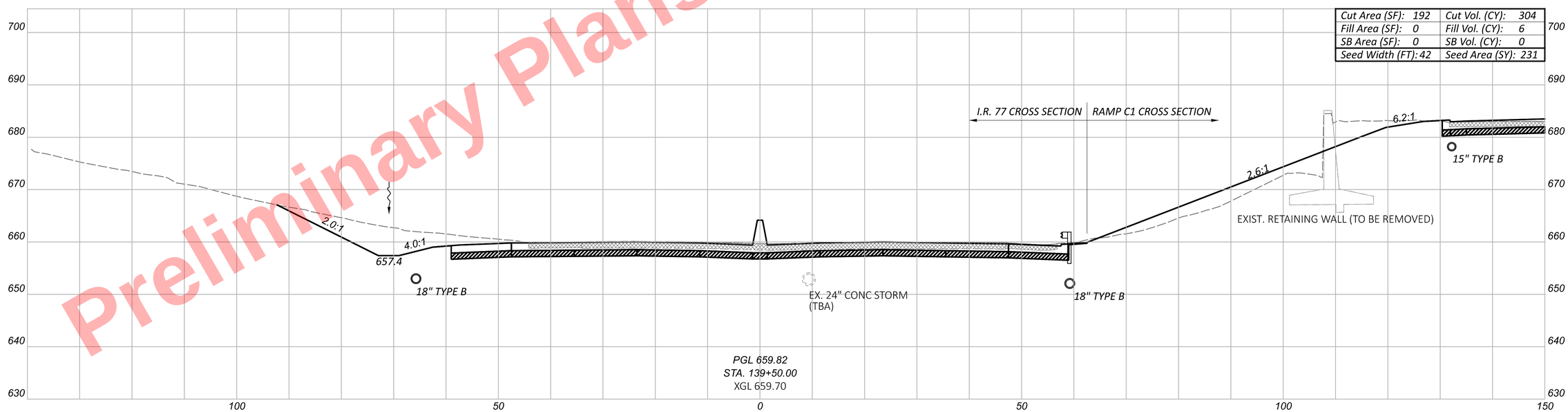
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	235	Cut Vol. (CY):	395
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	44	Seed Area (SY):	239



Cut Area (SF):	192	Cut Vol. (CY):	304
Fill Area (SF):	0	Fill Vol. (CY):	6
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	42	Seed Area (SY):	231

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

CROSS SECTIONS - I.R. 77
STA. 139+50.00 TO STA. 140+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
470	699	6	0

DESIGN AGENCY: HNTB
DESIGNER: EAP
REVIEWER: MTR 04/01/22
PROJECT ID: 105743
SHEET: P.420 | TOTAL: P.1269

MODEL: CLP_I077 - 139+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:22 AM USER: kperkins
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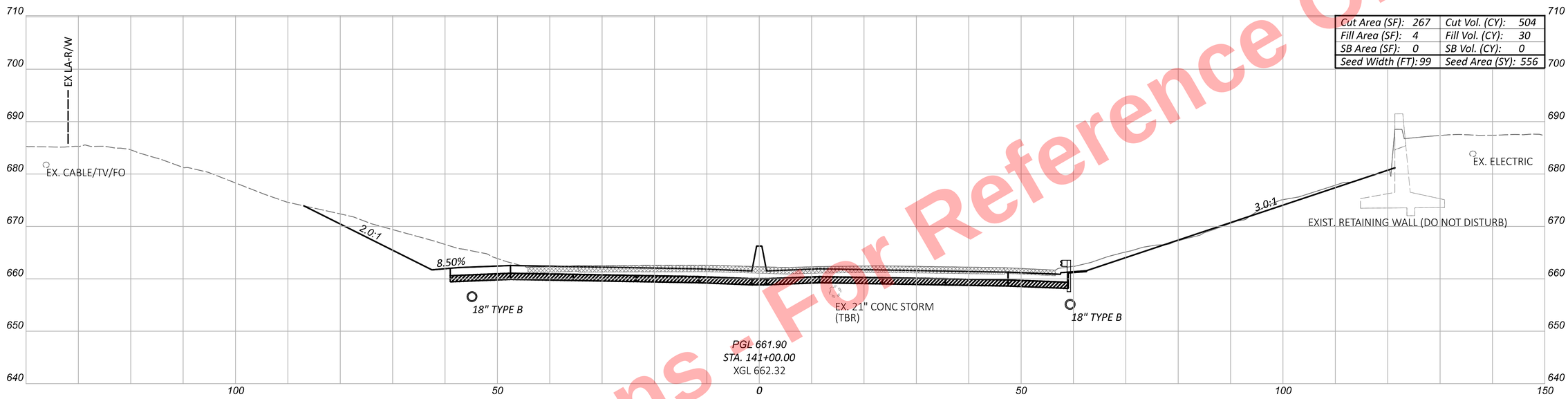
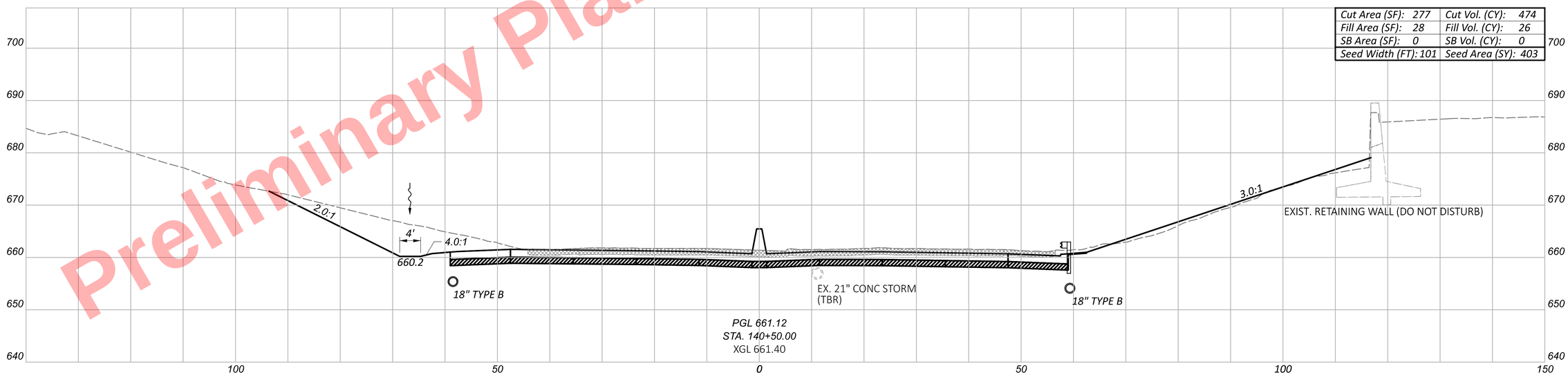
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	267	Cut Vol. (CY):	504
Fill Area (SF):	4	Fill Vol. (CY):	30
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	99	Seed Area (SY):	556



Cut Area (SF):	277	Cut Vol. (CY):	474
Fill Area (SF):	28	Fill Vol. (CY):	26
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	101	Seed Area (SY):	403

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 140+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:27 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 140+50.00 TO STA. 141+00.00

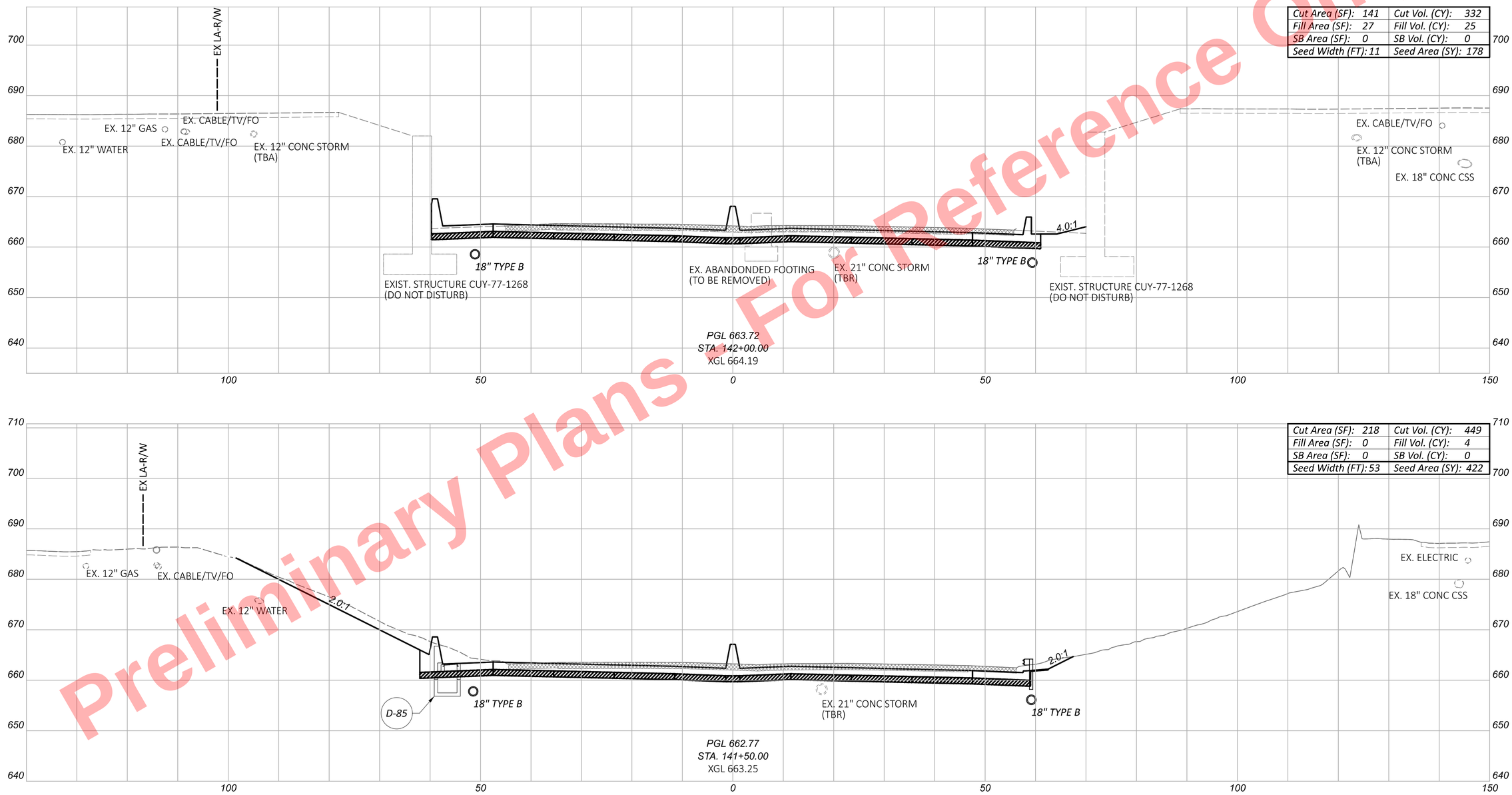
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
959	978	56	0

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER MTR 04/01/22
PROJECT ID 105743

SHEET P.421 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	141	Cut Vol. (CY):	332
Fill Area (SF):	27	Fill Vol. (CY):	25
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	11	Seed Area (SY):	178

Cut Area (SF):	218	Cut Vol. (CY):	449
Fill Area (SF):	0	Fill Vol. (CY):	4
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	53	Seed Area (SY):	422

Preliminary Plans For Reference Only

CROSS SECTIONS - I.R. 77
STA. 141+50.00 TO STA. 142+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
600	781	29	0

DESIGN AGENCY: HNTB
DESIGNER: EAP
REVIEWER: MTR 04/01/22
PROJECT ID: 105743
SHEET: P.422 TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 141+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:33 AM USER: kperkins
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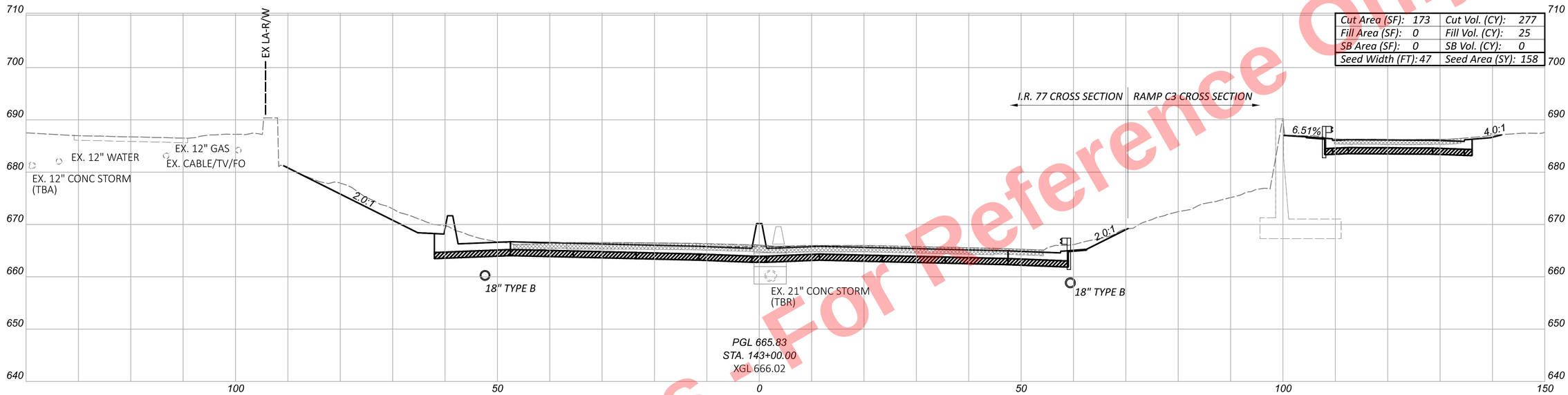
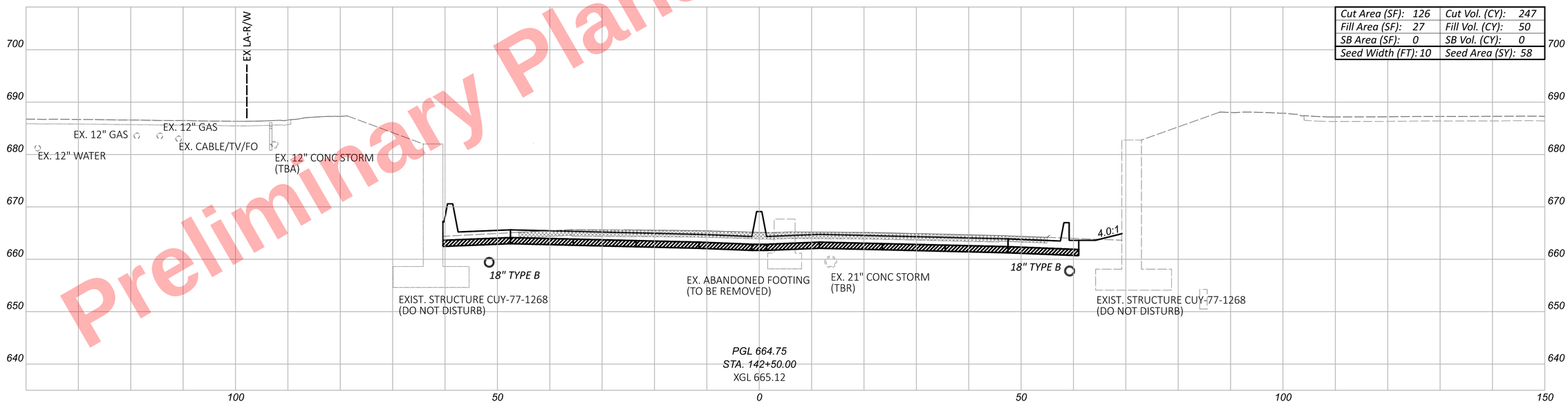
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	173	Cut Vol. (CY):	277
Fill Area (SF):	0	Fill Vol. (CY):	25
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	47	Seed Area (SY):	158



Cut Area (SF):	126	Cut Vol. (CY):	247
Fill Area (SF):	27	Fill Vol. (CY):	50
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	10	Seed Area (SY):	58

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 142+50.00 TO STA. 143+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
216	524	75	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

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MTR 04/01/22

PROJECT ID
105743

SHEET P.423 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 142+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:38 AM USER: kperkins
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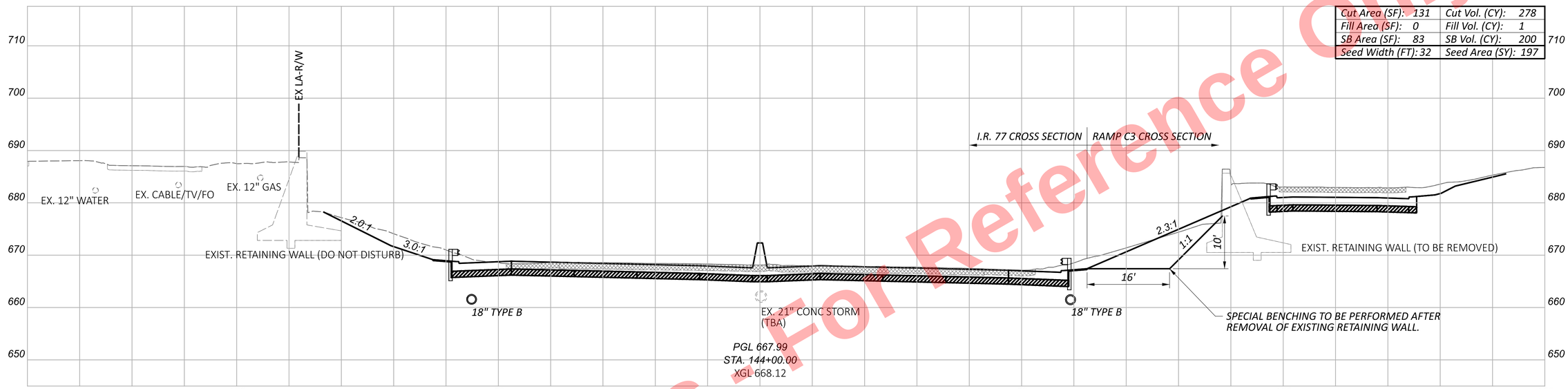
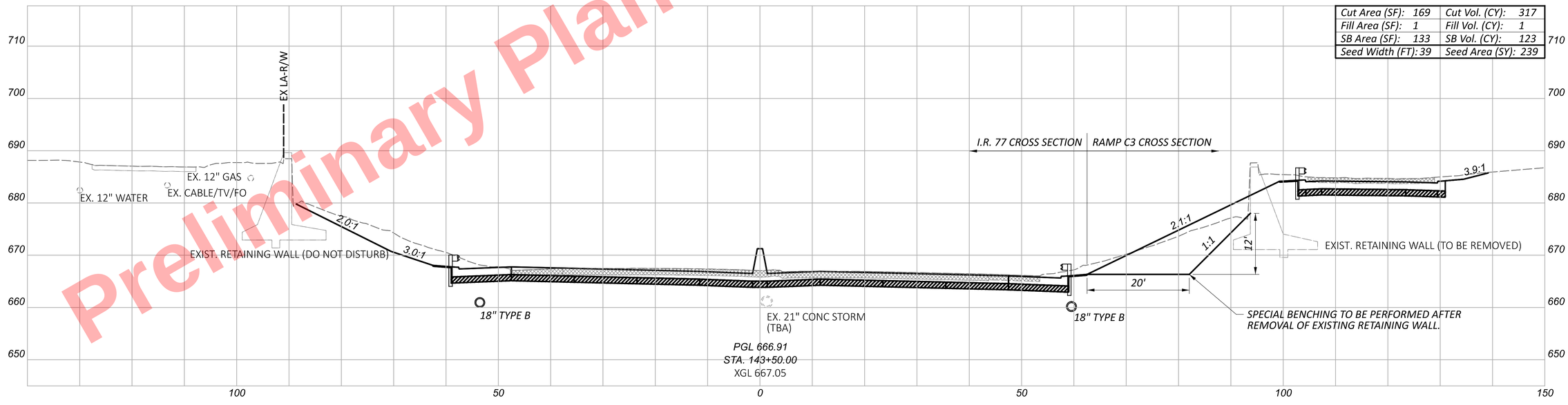
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	131	Cut Vol. (CY):	278
Fill Area (SF):	0	Fill Vol. (CY):	1
SB Area (SF):	83	SB Vol. (CY):	200
Seed Width (FT):	32	Seed Area (SY):	197



Cut Area (SF):	169	Cut Vol. (CY):	317
Fill Area (SF):	1	Fill Vol. (CY):	1
SB Area (SF):	133	SB Vol. (CY):	123
Seed Width (FT):	39	Seed Area (SY):	239

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 143+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:44 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 143+50.00 TO STA. 144+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
436	595	2	323

DESIGN AGENCY
HNTB

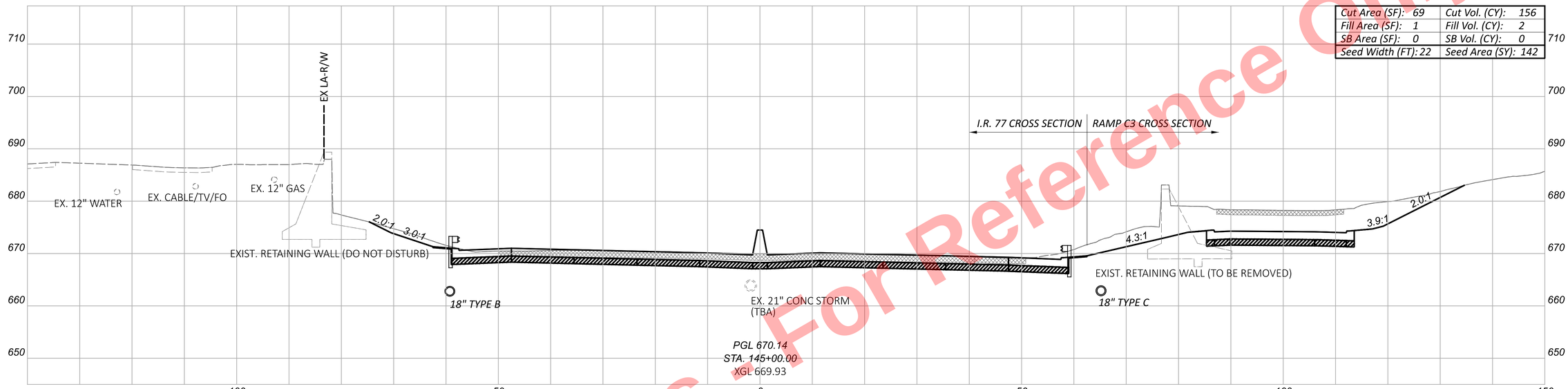
DESIGNER
EAP

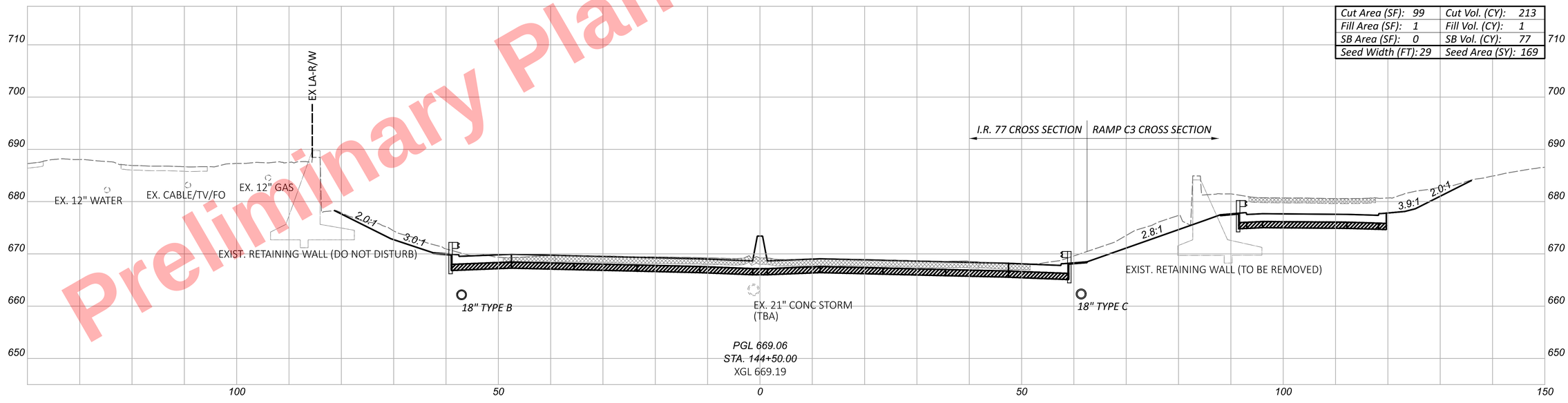
REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.424 | TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 144+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:49 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 144+50.00 TO STA. 145+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
311	369	3	77

DESIGN AGENCY
HNTB

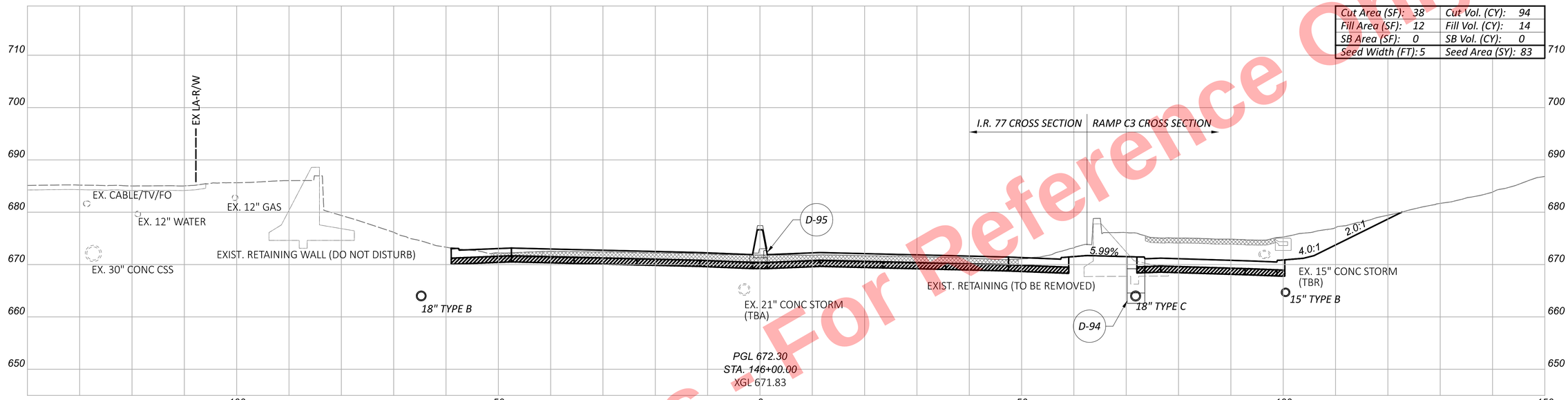
DESIGNER
EAP

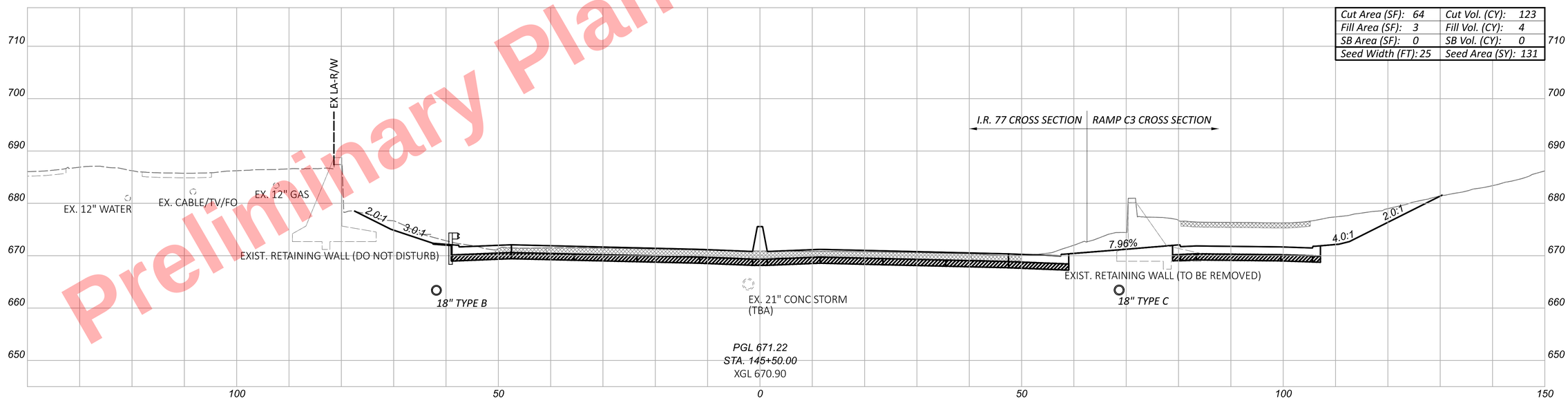
REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.425 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 145+50.00 TO STA. 146+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
214	217	18	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

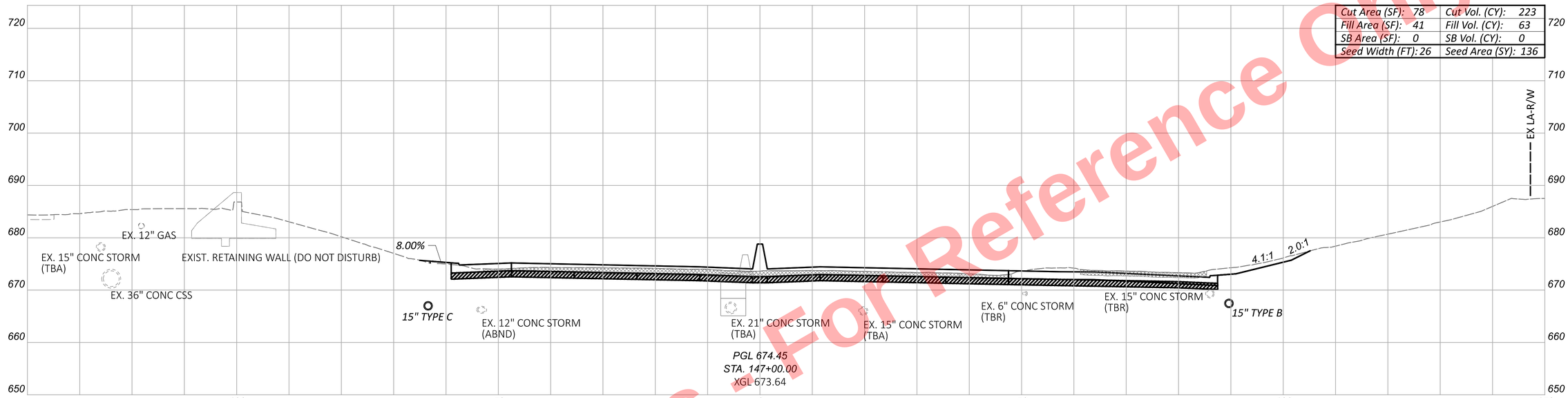
PROJECT ID
105743

SHEET P.426 | TOTAL P.1269

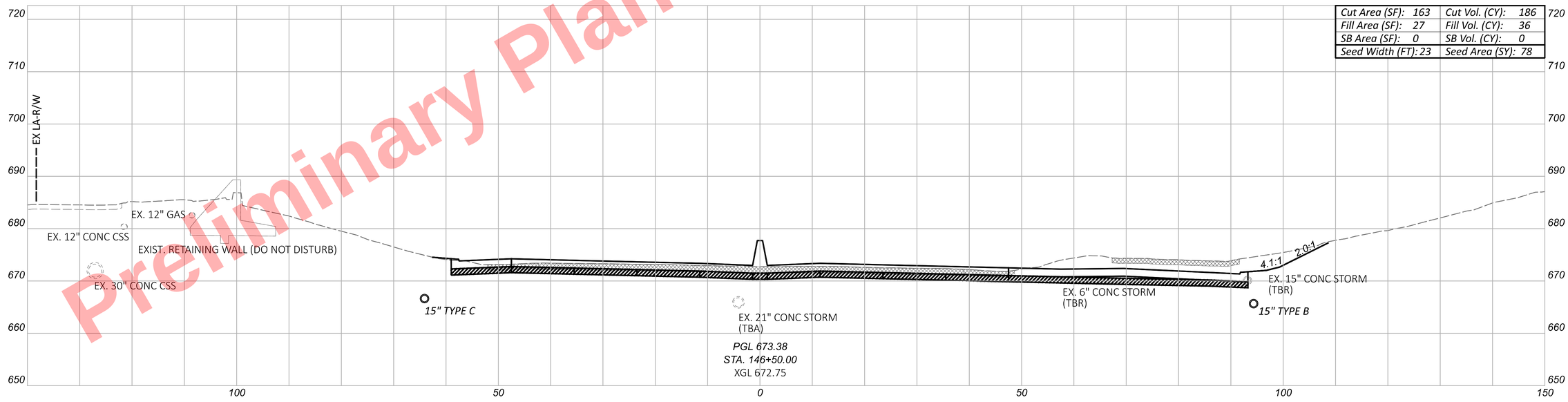
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 145+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:37:55 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS102.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	78	Cut Vol. (CY):	223
Fill Area (SF):	41	Fill Vol. (CY):	63
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	26	Seed Area (SY):	136



Cut Area (SF):	163	Cut Vol. (CY):	186
Fill Area (SF):	27	Fill Vol. (CY):	36
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	23	Seed Area (SY):	78

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 146+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:00 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS102.dgn

CROSS SECTIONS - I.R. 77
STA. 146+50.00 TO STA. 147+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
214	409	99	0

DESIGN AGENCY
HNTB

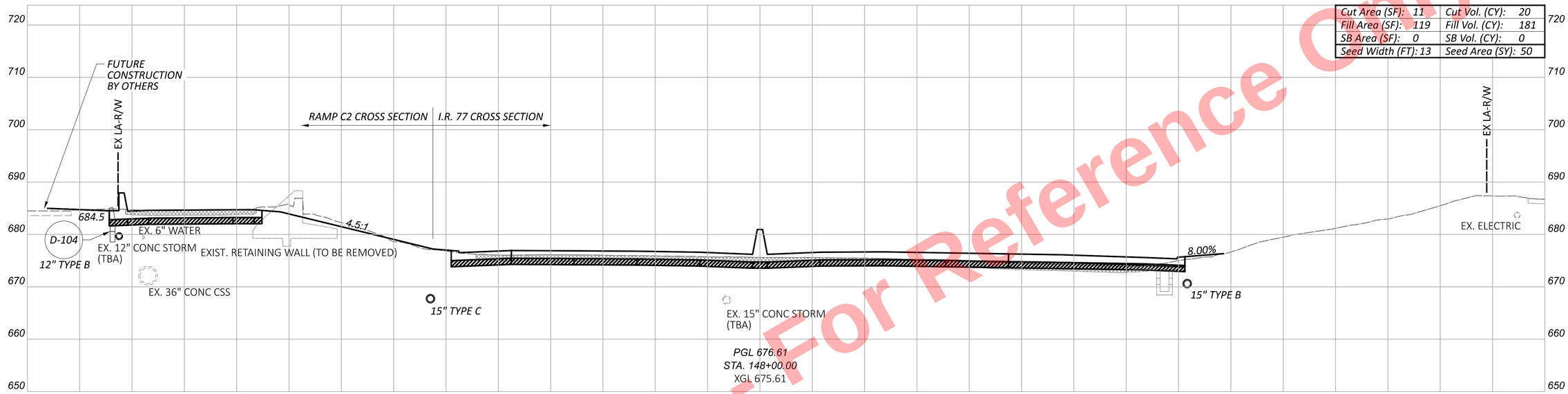
DESIGNER
EAP

REVIEWER
MTR 04/01/22

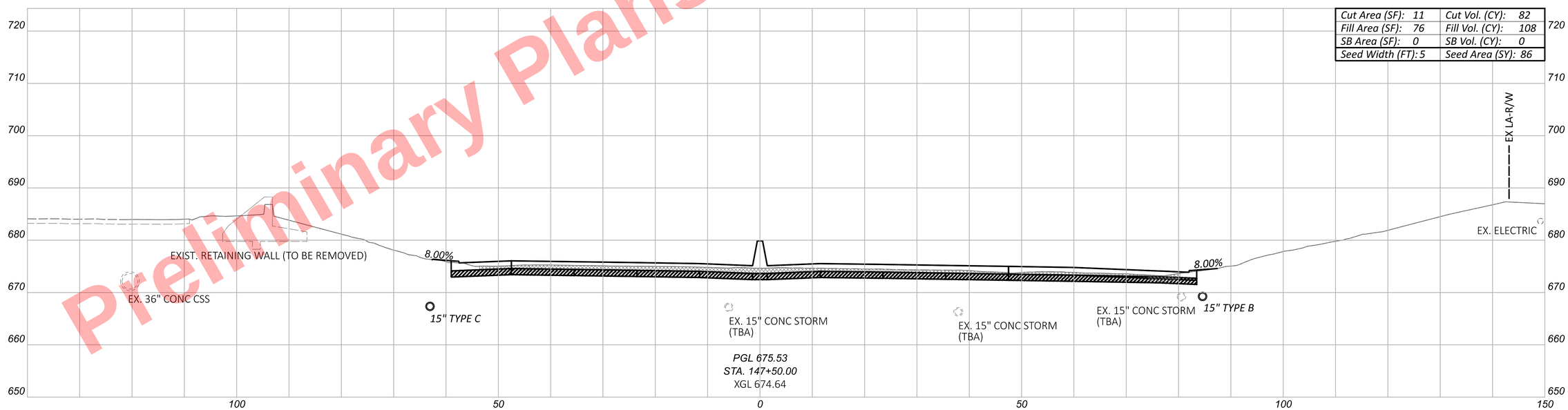
PROJECT ID
105743

SHEET P.427 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	11	Cut Vol. (CY):	20
Fill Area (SF):	119	Fill Vol. (CY):	181
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	13	Seed Area (SY):	50



Cut Area (SF):	11	Cut Vol. (CY):	82
Fill Area (SF):	76	Fill Vol. (CY):	108
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	5	Seed Area (SY):	86

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 147+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:07 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\v00-Engineering\Roadway\Sheets\105743_XS102.dgn

CROSS SECTIONS - I.R. 77
STA. 147+50.00 TO STA. 148+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
136	102	289	0

DESIGN AGENCY
HNTB

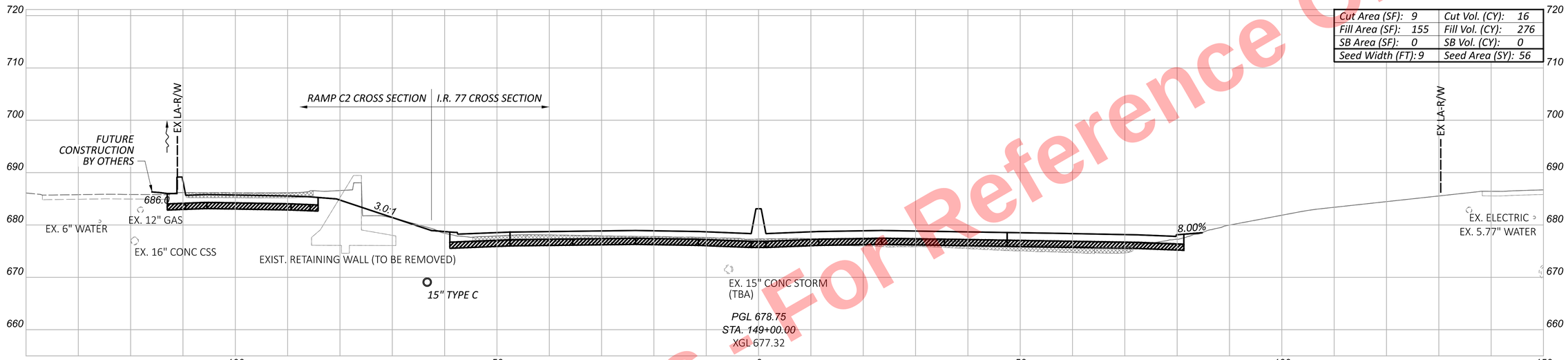
DESIGNER
EAP

REVIEWER
MTR 04/01/22

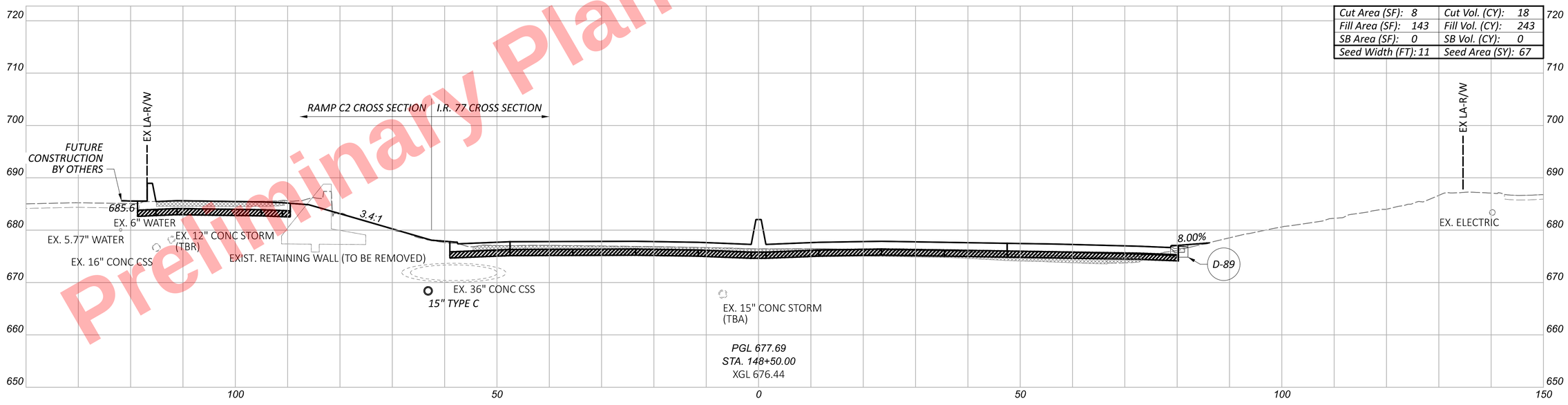
PROJECT ID
105743

SHEET P.428 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	9	Cut Vol. (CY):	16
Fill Area (SF):	155	Fill Vol. (CY):	276
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	9	Seed Area (SY):	56



Cut Area (SF):	8	Cut Vol. (CY):	18
Fill Area (SF):	143	Fill Vol. (CY):	243
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	11	Seed Area (SY):	67

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 148+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:13 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_XS102.dgn

CROSS SECTIONS - I.R. 77
STA. 148+50.00 TO STA. 149+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
123	34	519	0

DESIGN AGENCY
HNTB

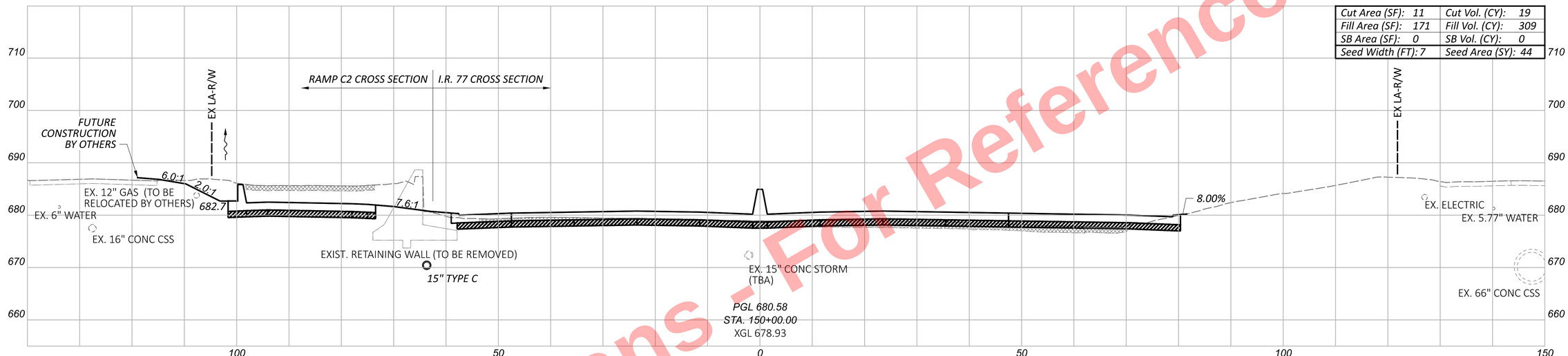
DESIGNER
EAP

REVIEWER
MTR 04/01/22

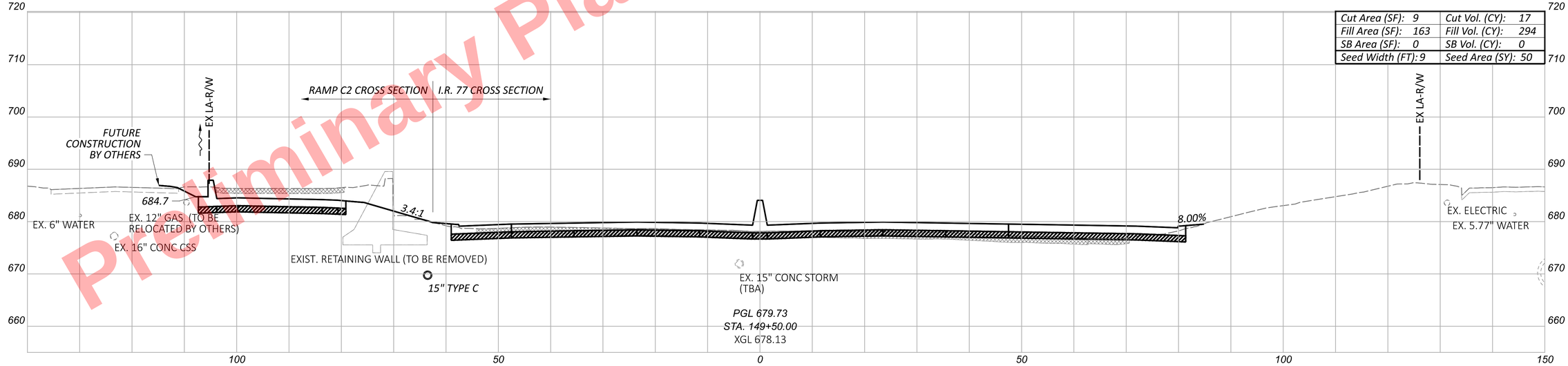
PROJECT ID
105743

SHEET P.429 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	11	Cut Vol. (CY):	19
Fill Area (SF):	171	Fill Vol. (CY):	309
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	7	Seed Area (SY):	44



Cut Area (SF):	9	Cut Vol. (CY):	17
Fill Area (SF):	163	Fill Vol. (CY):	294
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	9	Seed Area (SY):	50

Preliminary Plans - Not For Reference Only

CROSS SECTIONS - I.R. 77
STA. 149+50.00 TO STA. 150+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

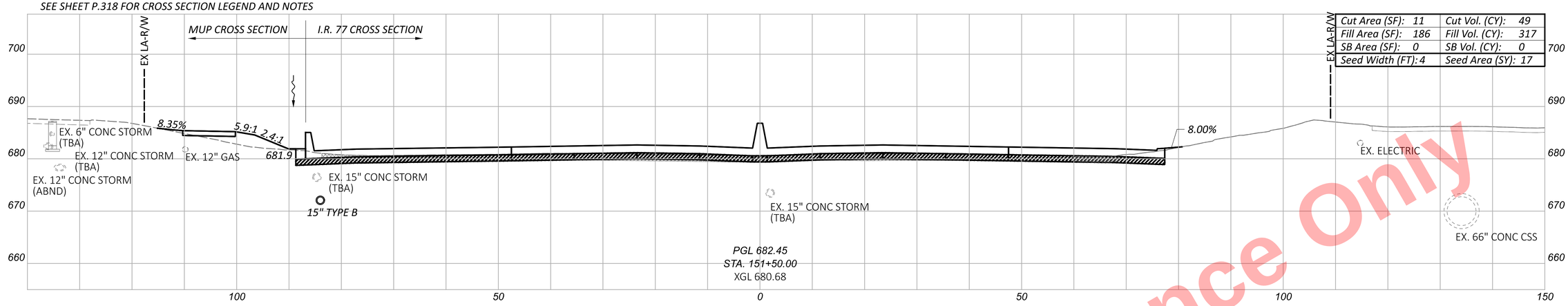
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
94	36	603	0

SHEET P.430 TOTAL P.1269

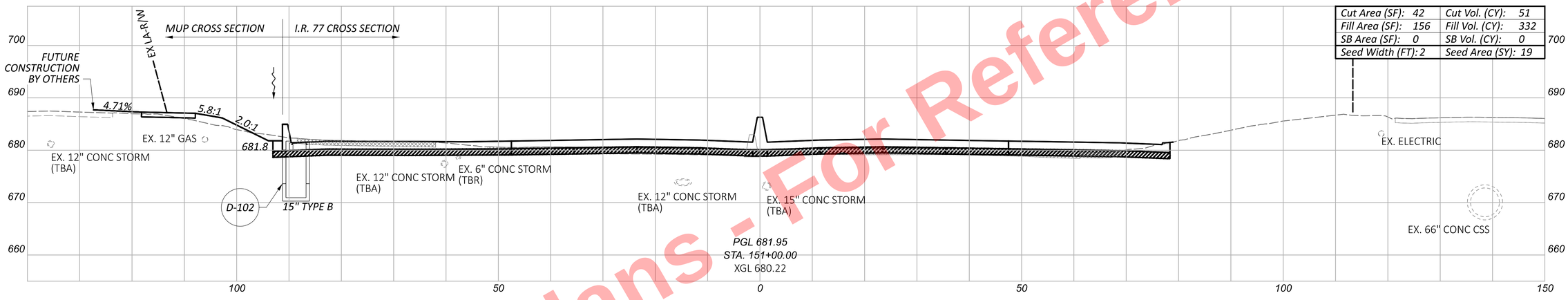
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 149+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:19 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS102.dgn

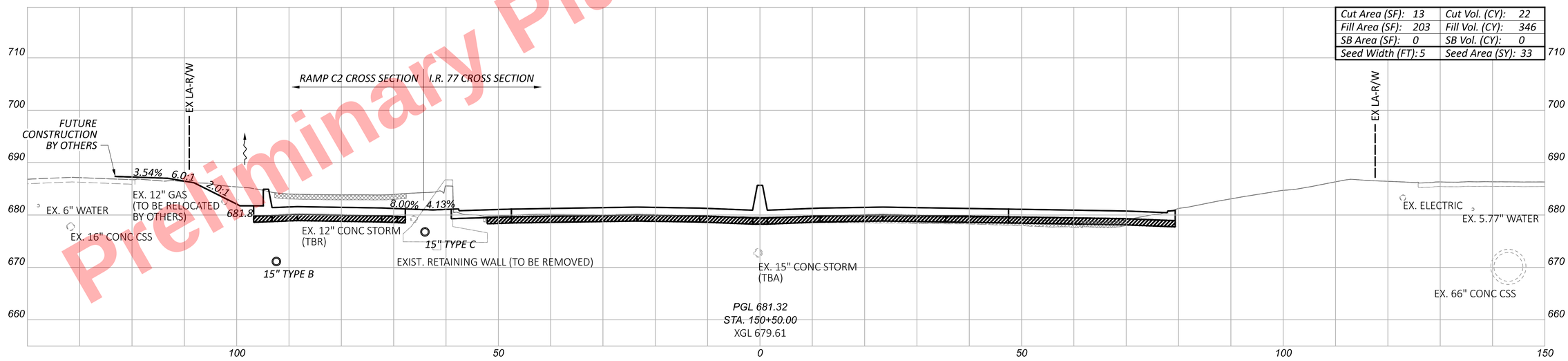
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 11	Cut Vol. (CY): 49
Fill Area (SF): 186	Fill Vol. (CY): 317
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 4	Seed Area (SY): 17



Cut Area (SF): 42	Cut Vol. (CY): 51
Fill Area (SF): 156	Fill Vol. (CY): 332
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 2	Seed Area (SY): 19



Cut Area (SF): 13	Cut Vol. (CY): 22
Fill Area (SF): 203	Fill Vol. (CY): 346
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 5	Seed Area (SY): 33

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

CROSS SECTIONS - I.R. 77
STA. 150+50.00 TO STA. 151+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

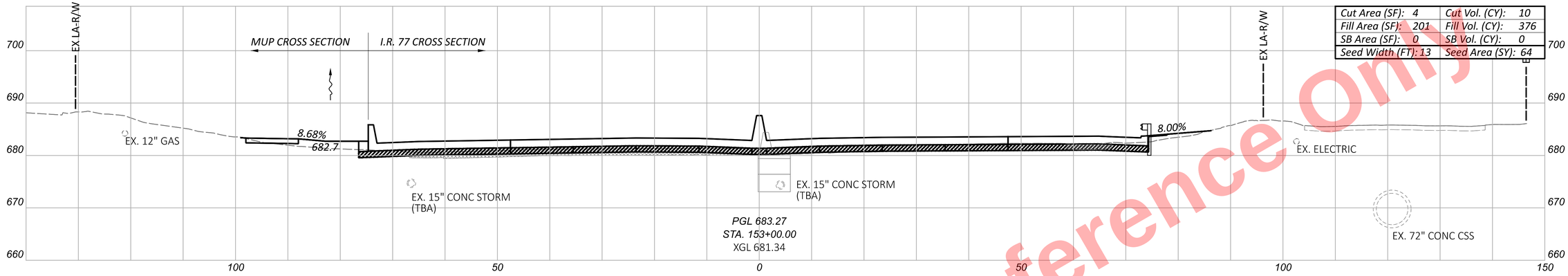
PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
69	122	995	0

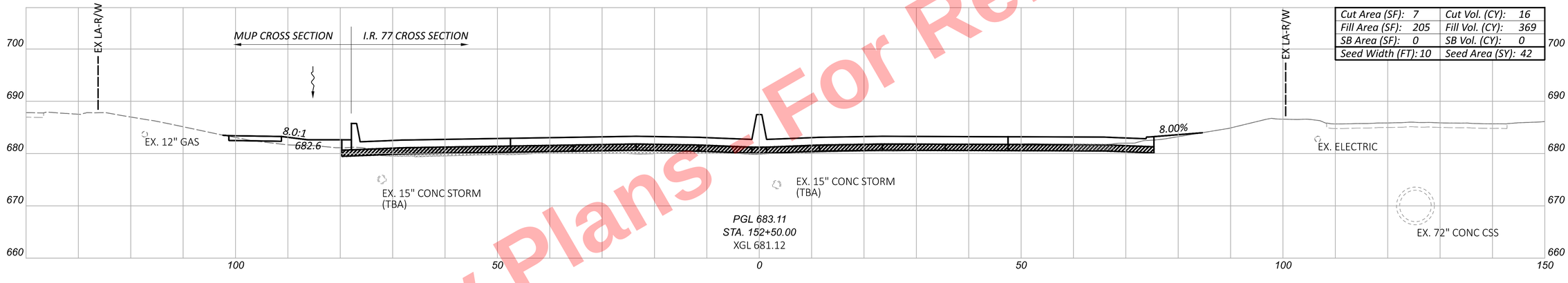
SHEET P.431 TOTAL P.1269

MODEL: CLP_I077 - 150+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:25 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS102.dgn

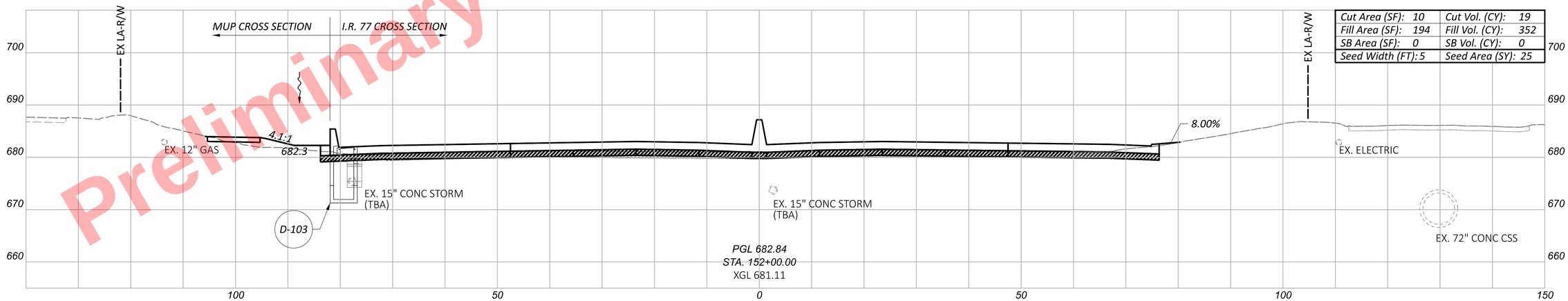
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	4	Cut Vol. (CY):	10
Fill Area (SF):	201	Fill Vol. (CY):	376
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	13	Seed Area (SY):	64



Cut Area (SF):	7	Cut Vol. (CY):	16
Fill Area (SF):	205	Fill Vol. (CY):	369
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	10	Seed Area (SY):	42



Cut Area (SF):	10	Cut Vol. (CY):	19
Fill Area (SF):	194	Fill Vol. (CY):	352
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	5	Seed Area (SY):	25

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 152+00.00 TO STA. 153+00.00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 152+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:34 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS102.dgn

DESIGN AGENCY
HNTB

DESIGNER
EAP

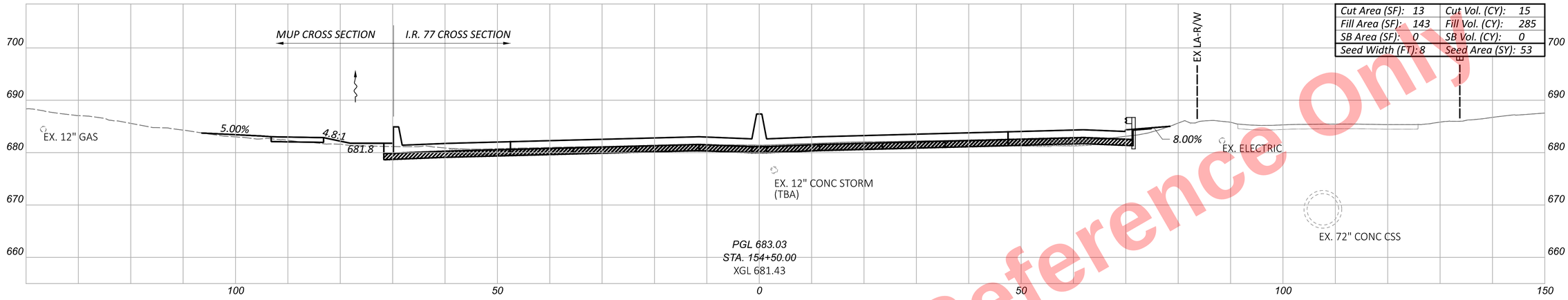
REVIEWER
MTR 04/01/22

PROJECT ID
105743

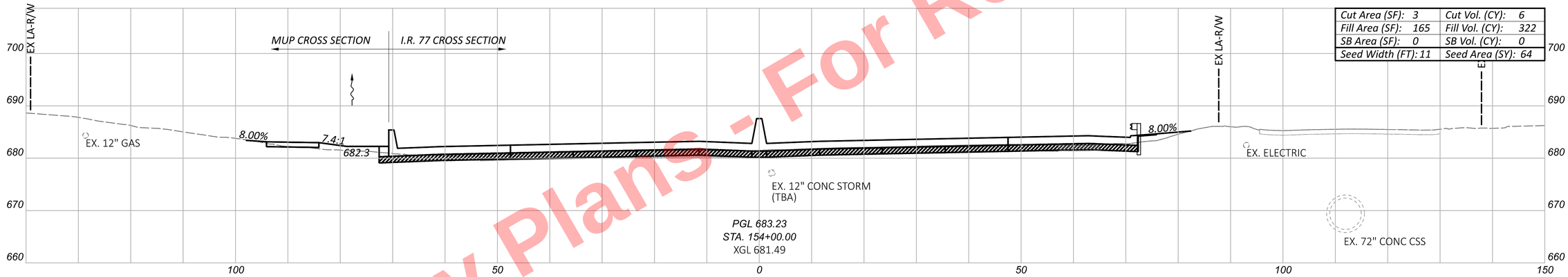
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
131	45	1097	0

SHEET	TOTAL
P.432	P.1269

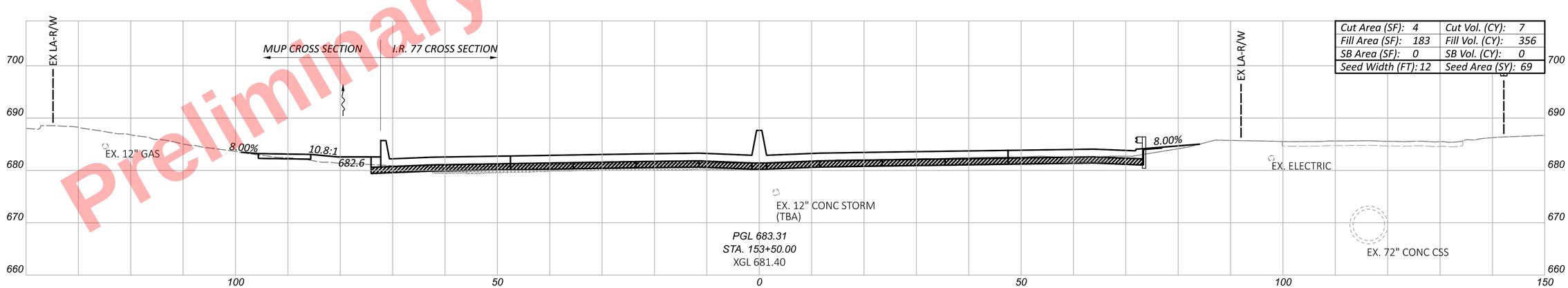
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	13	Cut Vol. (CY):	15
Fill Area (SF):	143	Fill Vol. (CY):	285
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	8	Seed Area (SY):	53



Cut Area (SF):	3	Cut Vol. (CY):	6
Fill Area (SF):	165	Fill Vol. (CY):	322
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	11	Seed Area (SY):	64



Cut Area (SF):	4	Cut Vol. (CY):	7
Fill Area (SF):	183	Fill Vol. (CY):	356
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	12	Seed Area (SY):	69

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 153+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:43 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS102.dgn

CROSS SECTIONS - I.R. 77
STA. 153+50.00 TO STA. 154+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
186	28	963	0

DESIGN AGENCY
HNTB

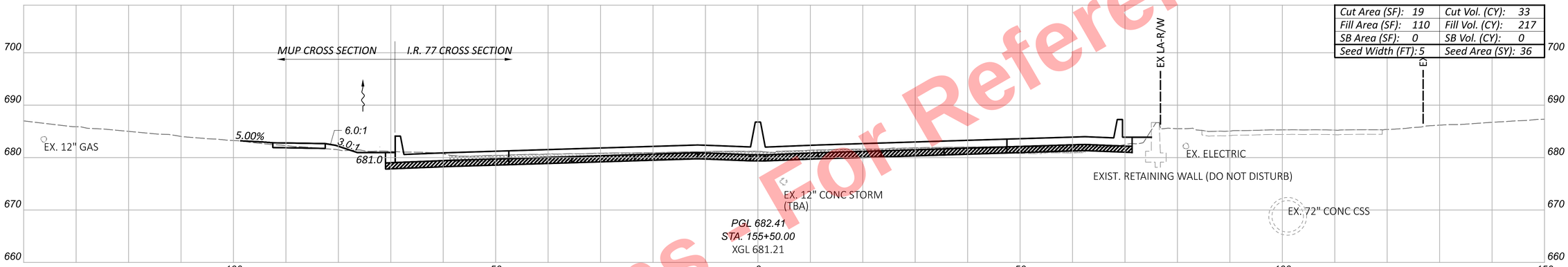
DESIGNER
EAP

REVIEWER
MTR 04/01/22

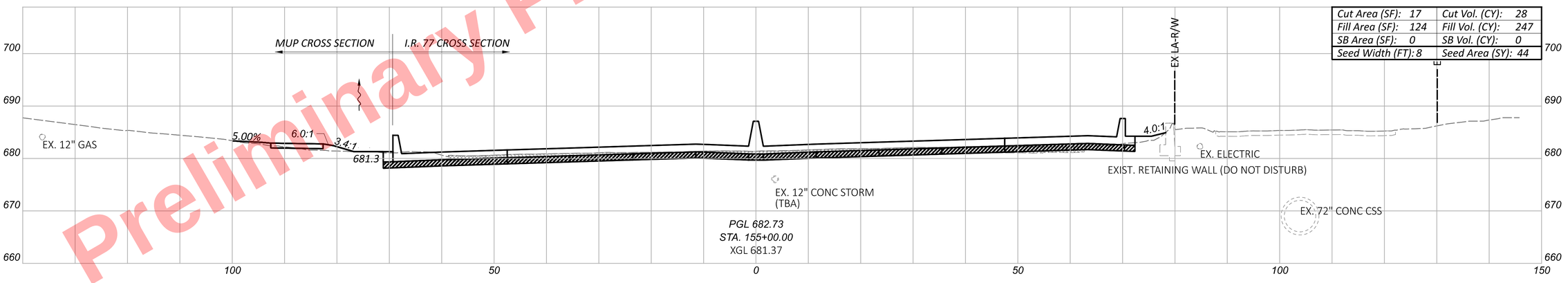
PROJECT ID
105743

SHEET	TOTAL
P.433	P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	19	Cut Vol. (CY):	33
Fill Area (SF):	110	Fill Vol. (CY):	217
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	5	Seed Area (SY):	36



Cut Area (SF):	17	Cut Vol. (CY):	28
Fill Area (SF):	124	Fill Vol. (CY):	247
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	8	Seed Area (SY):	44

Preliminary Plans For Reference Only

CROSS SECTIONS - I.R. 77
STA. 155+00.00 TO STA. 155+50.00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 155+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:51 AM USER: kperkins
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DESIGN AGENCY
HNTB

DESIGNER
EAP

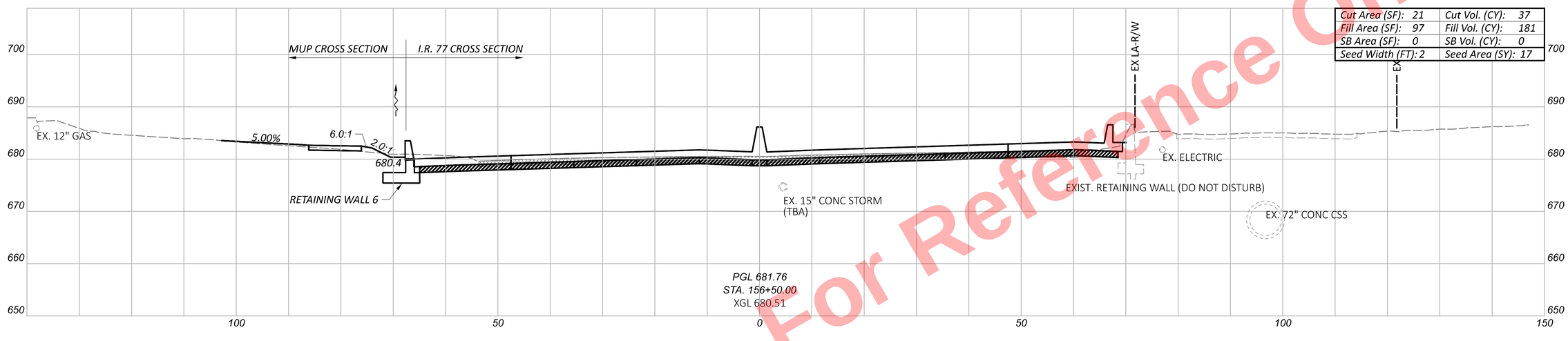
REVIEWER
MTR 04/01/22

PROJECT ID
105743

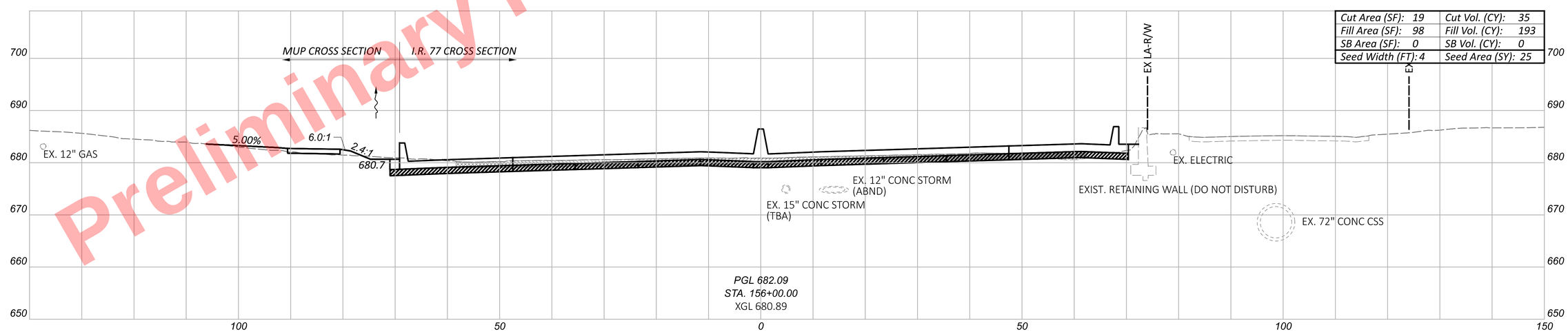
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
80	61	464	0

SHEET	TOTAL
P.434	P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	21	Cut Vol. (CY):	37
Fill Area (SF):	97	Fill Vol. (CY):	181
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	2	Seed Area (SY):	17



Cut Area (SF):	19	Cut Vol. (CY):	35
Fill Area (SF):	98	Fill Vol. (CY):	193
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	4	Seed Area (SY):	25

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 156+00.00 TO STA. 156+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

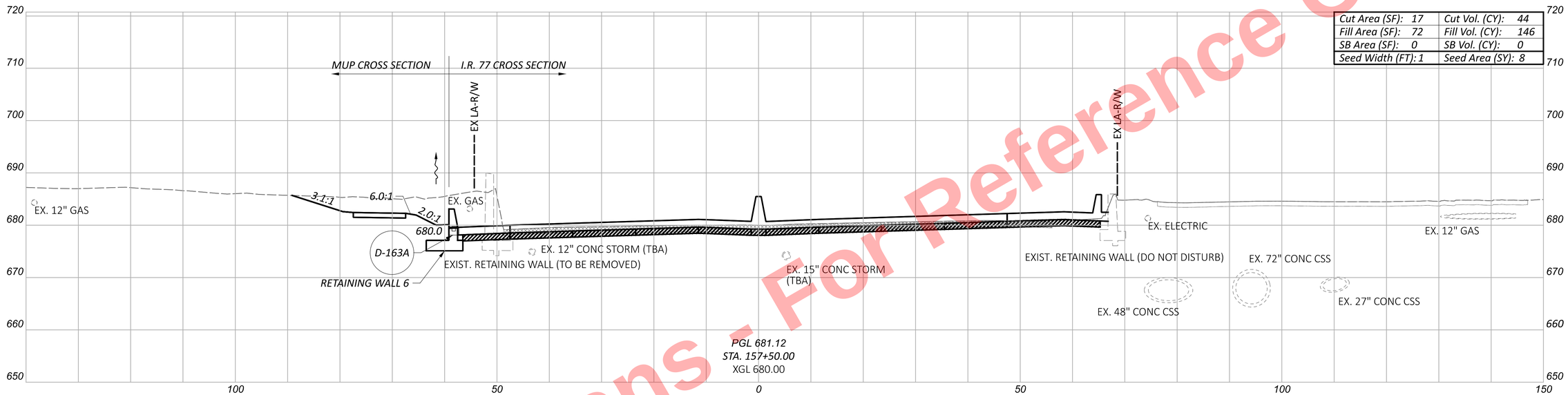
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
42	72	374	0

SHEET P.435 | TOTAL P.1269

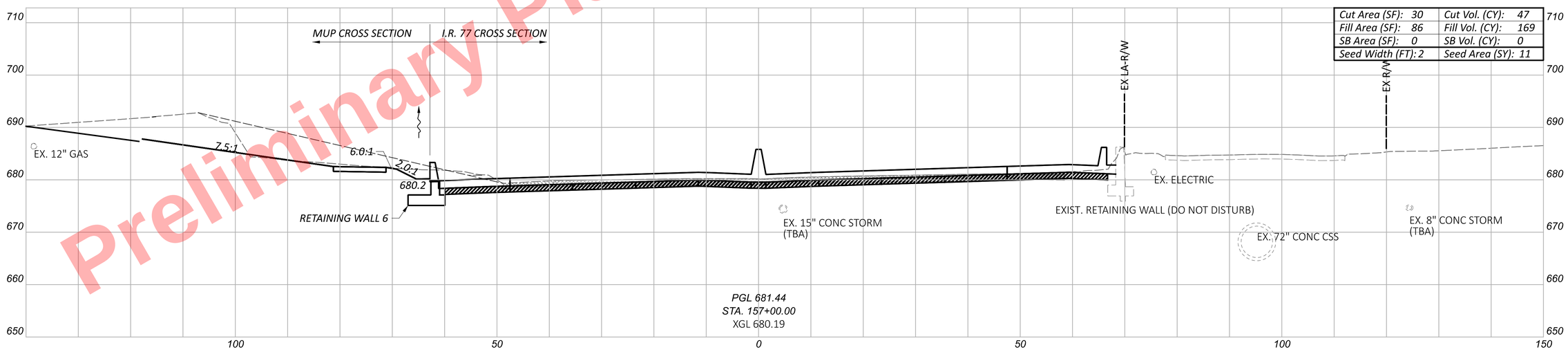
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 156+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:54 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS102.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	17	Cut Vol. (CY):	44
Fill Area (SF):	72	Fill Vol. (CY):	146
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	1	Seed Area (SY):	8



Cut Area (SF):	30	Cut Vol. (CY):	47
Fill Area (SF):	86	Fill Vol. (CY):	169
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	2	Seed Area (SY):	11

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 157+00.00 TO STA. 157+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
19	91	315	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

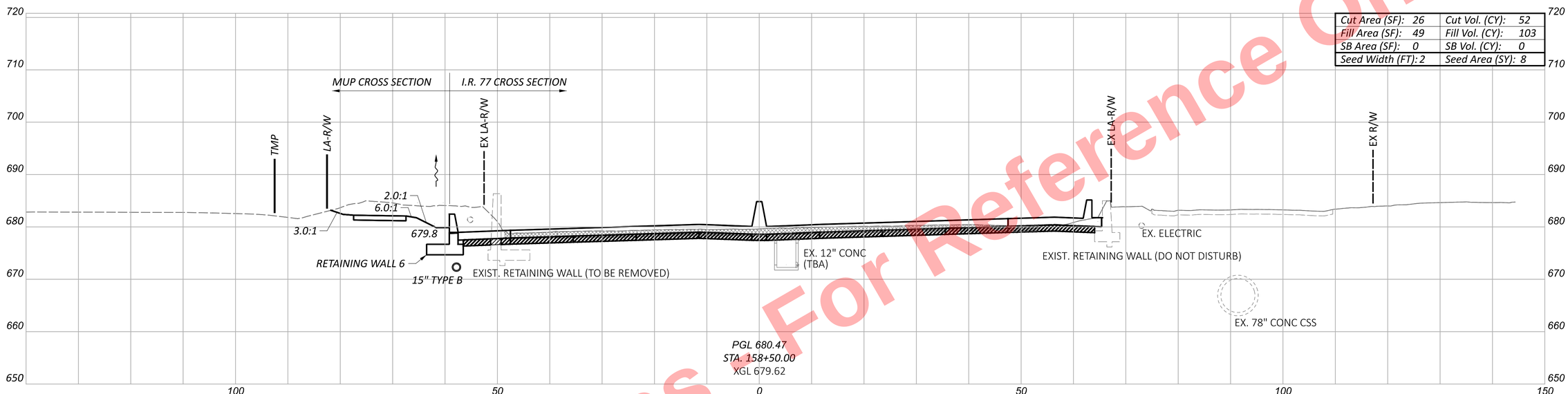
PROJECT ID
105743

SHEET P.436 | TOTAL P.1269

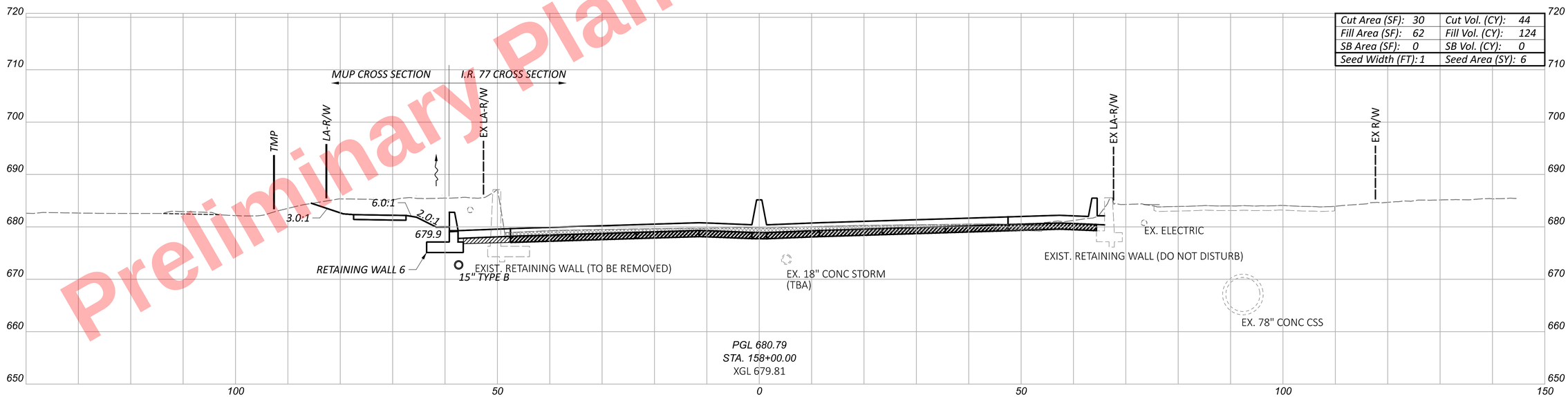
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 157+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:38:57 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS102.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	26	Cut Vol. (CY):	52
Fill Area (SF):	49	Fill Vol. (CY):	103
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	2	Seed Area (SY):	8



Cut Area (SF):	30	Cut Vol. (CY):	44
Fill Area (SF):	62	Fill Vol. (CY):	124
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	1	Seed Area (SY):	6

For Reference Only
Preliminary Plans - Not for Construction

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 158+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:01 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\S - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS102.dgn

CROSS SECTIONS - I.R. 77
STA. 158+00.00 TO STA. 158+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

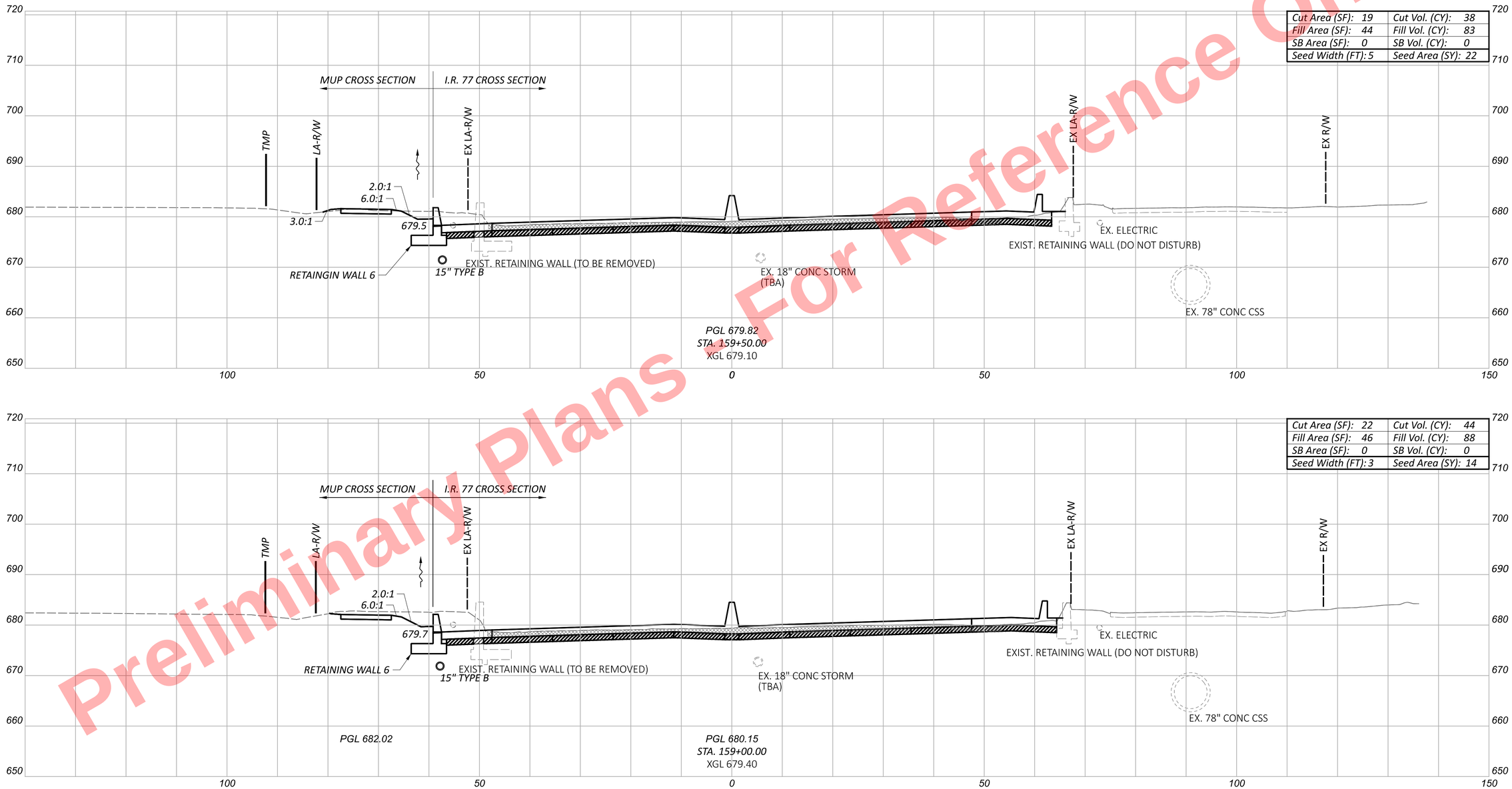
REVIEWER
MTR 04/01/22

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
14	96	227	0

SHEET	TOTAL
P.437	P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Preliminary Plans For Reference Only

CROSS SECTIONS - I.R. 77
STA. 159+00.00 TO STA. 159+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
36	82	171	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.438 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 159+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:07 AM USER: kperkins
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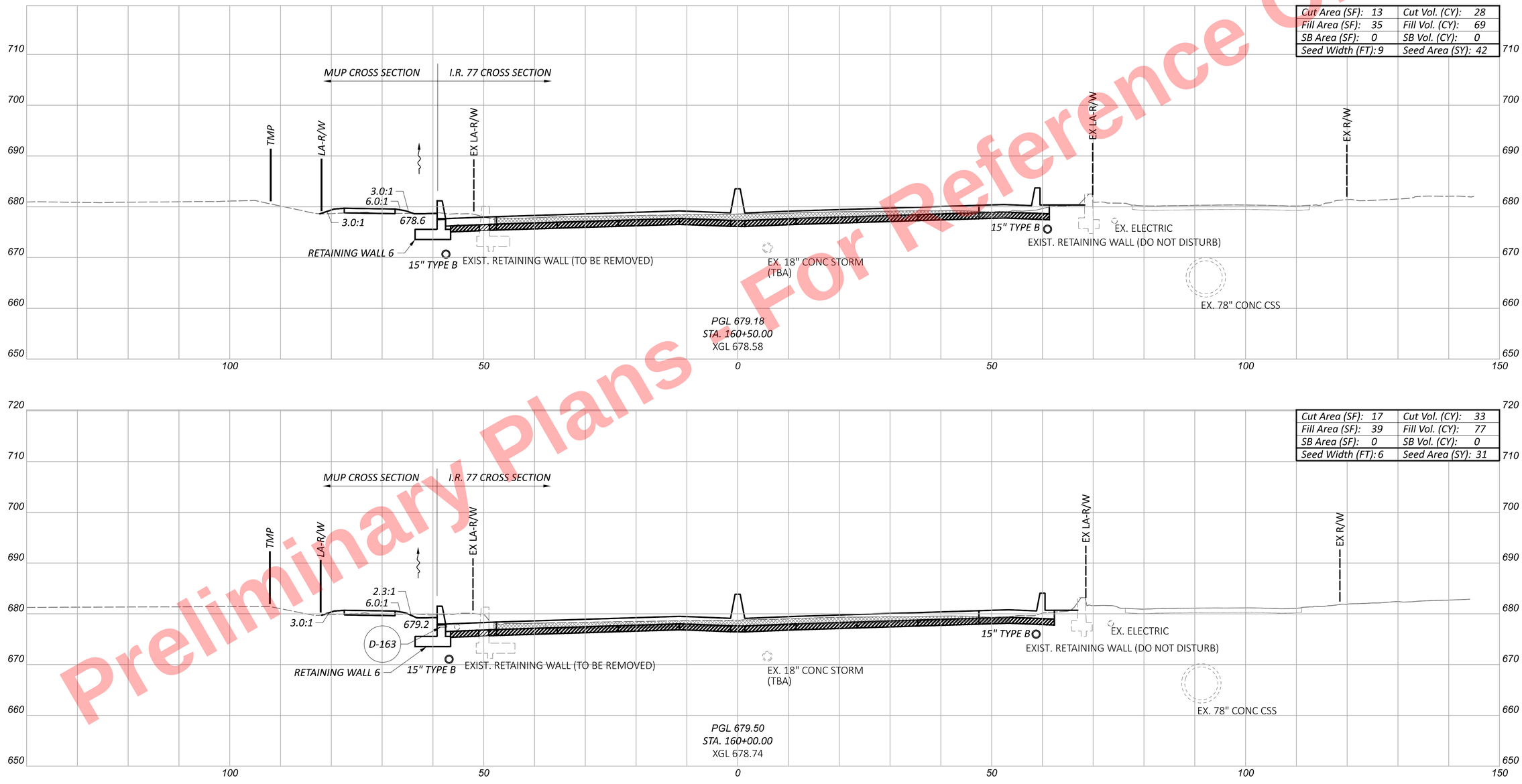
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 160+00.00 TO STA. 160+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
73	61	146	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.439 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 160+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:14 AM USER: kperkins
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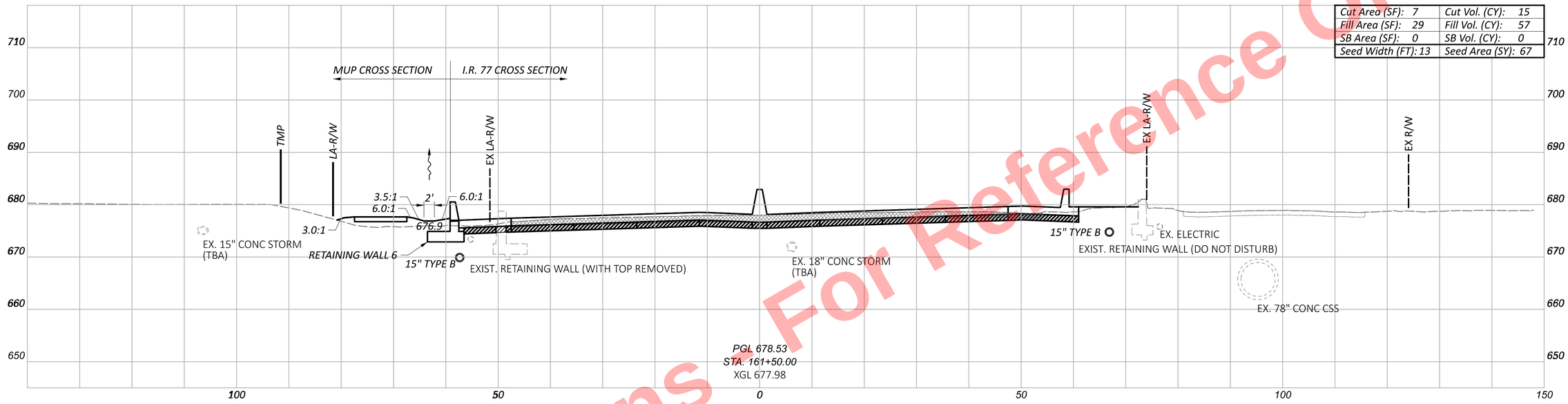
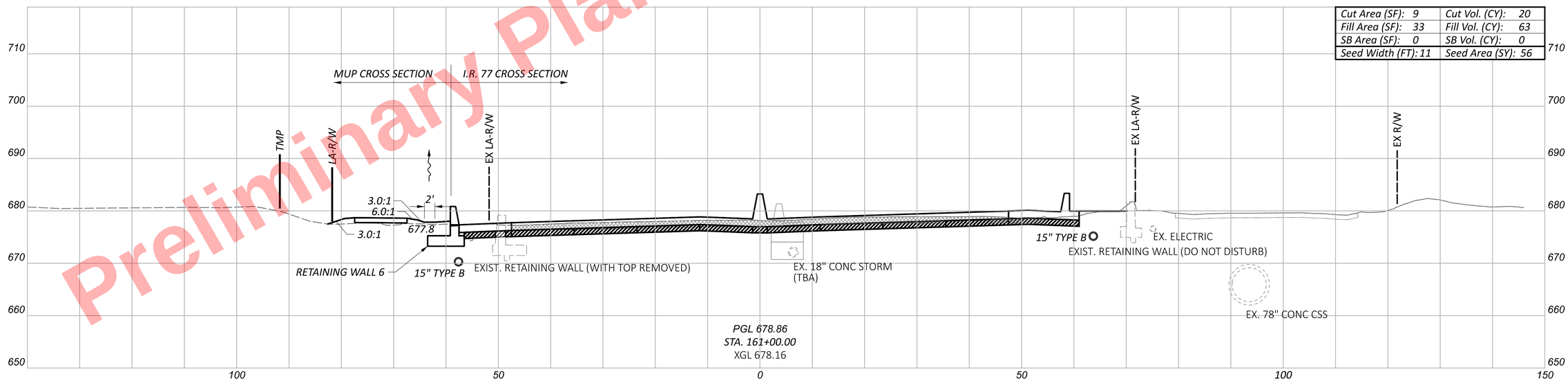
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	7	Cut Vol. (CY):	15
Fill Area (SF):	29	Fill Vol. (CY):	57
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	13	Seed Area (SY):	67



Cut Area (SF):	9	Cut Vol. (CY):	20
Fill Area (SF):	33	Fill Vol. (CY):	63
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	11	Seed Area (SY):	56

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 161+00.00 TO STA. 161+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
123	35	120	0

SHEET P.440 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 161+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:22 AM USER: kperkins
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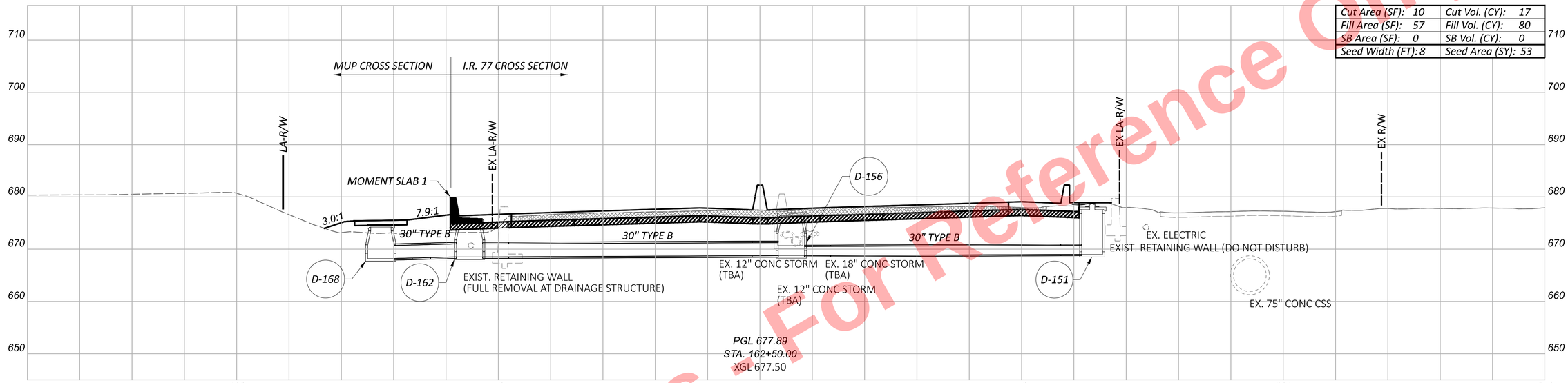
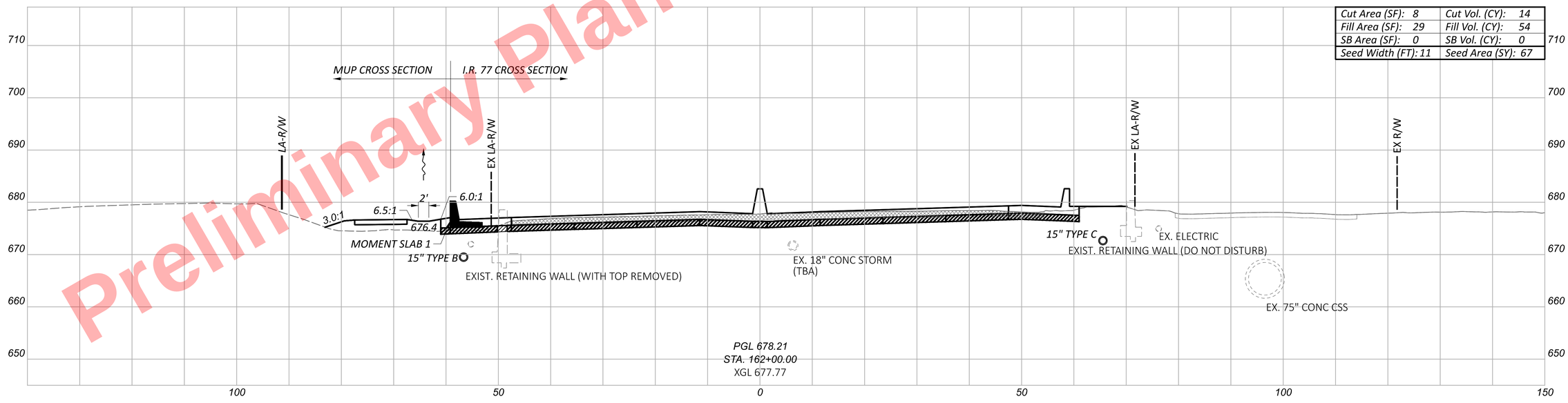
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	10	Cut Vol. (CY):	17
Fill Area (SF):	57	Fill Vol. (CY):	80
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	8	Seed Area (SY):	53



Cut Area (SF):	8	Cut Vol. (CY):	14
Fill Area (SF):	29	Fill Vol. (CY):	54
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	11	Seed Area (SY):	67

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 162+00.00 TO STA. 162+50.00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 162+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:28 AM USER: kperkins
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Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
120	31	134	0

DESIGN AGENCY
HNTB

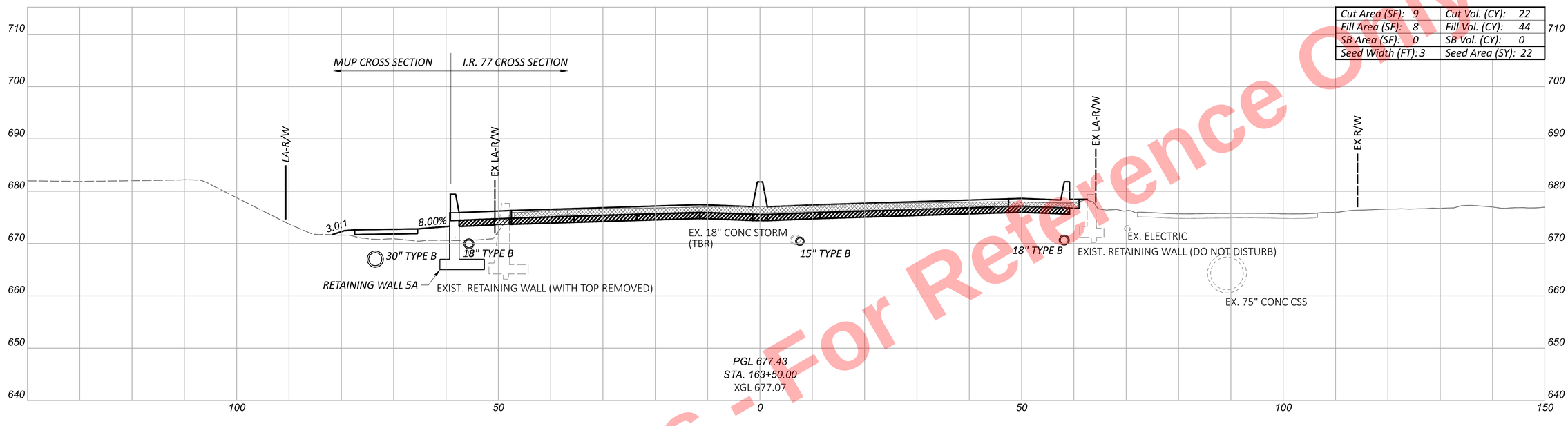
DESIGNER
EAP

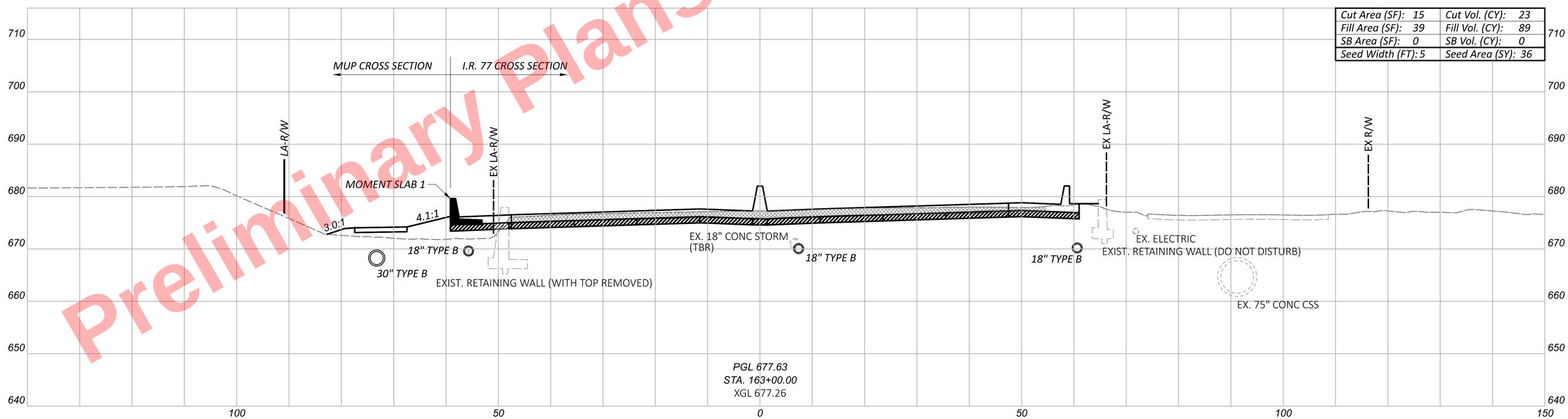
REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.441 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





NOTE: DRAINANGE CONDUIT SHOWN ADJACENT TO WALLS ARE OFFSET A MINIMUM OF 6" HORIZONTALLY FROM THE WALL.

Preliminary Plans - For Reference Only

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
58	45	133	0

CUY-77-11.41 - PART 1

CROSS SECTIONS - I.R. 77
STA. 163+00.00 TO STA. 163+50.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.442 TOTAL P.1269

MODEL: CLP_I077 - 163+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:36 AM USER: kperkins
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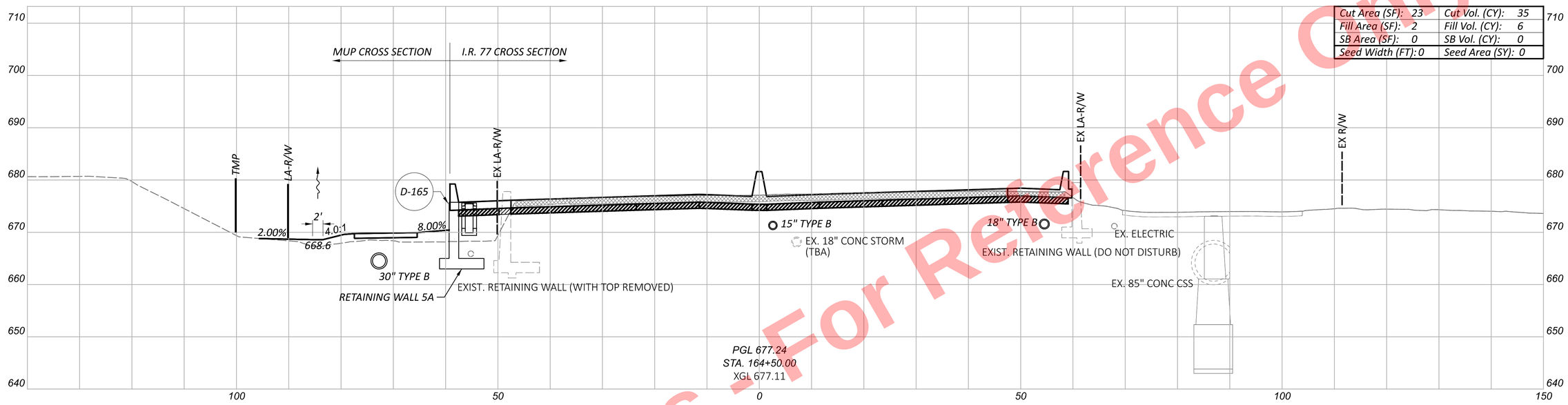
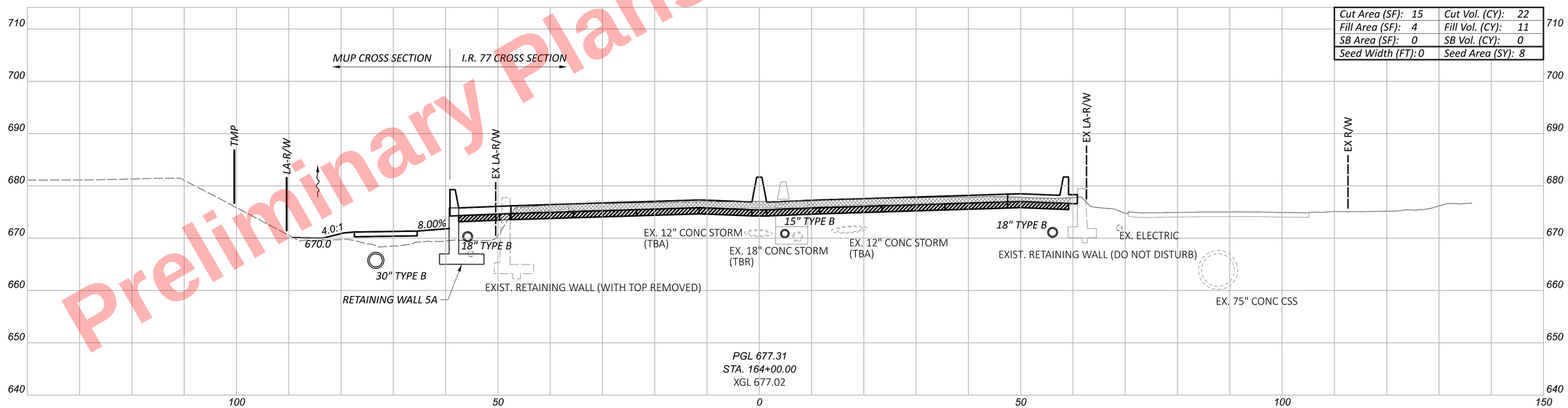
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	23	Cut Vol. (CY):	35
Fill Area (SF):	2	Fill Vol. (CY):	6
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0



Cut Area (SF):	15	Cut Vol. (CY):	22
Fill Area (SF):	4	Fill Vol. (CY):	11
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	8

NOTE: DRAINANGE CONDUIT SHOWN ADJACENT TO WALLS ARE OFFSET A MINIMUM OF 6" HORIZONTALLY FROM THE WALL.

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 164+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:42 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 164+00.00 TO STA. 164+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
8	57	17	0

DESIGN AGENCY
HNTB

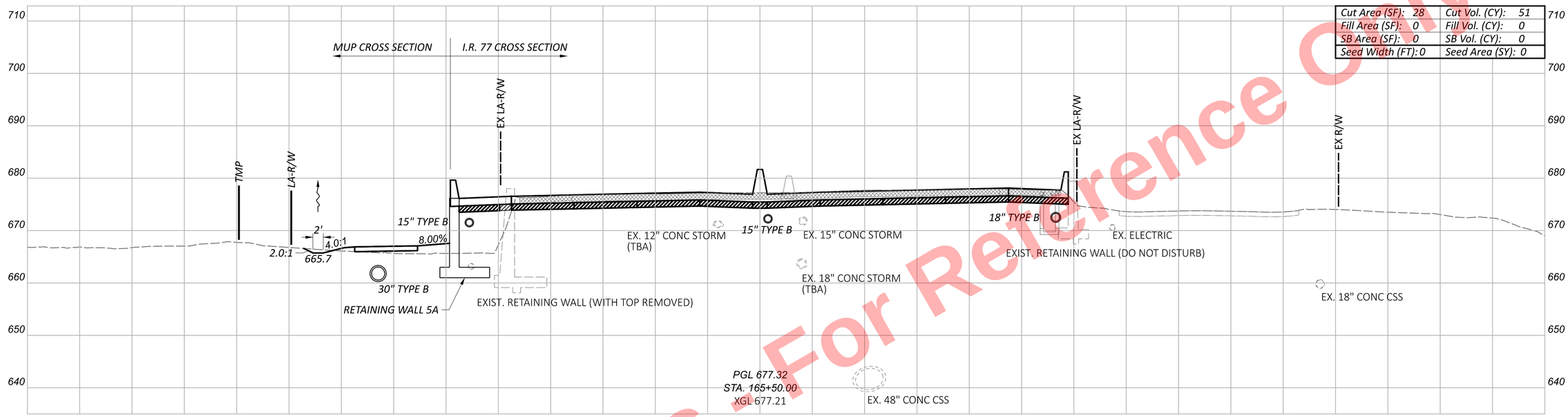
DESIGNER
EAP

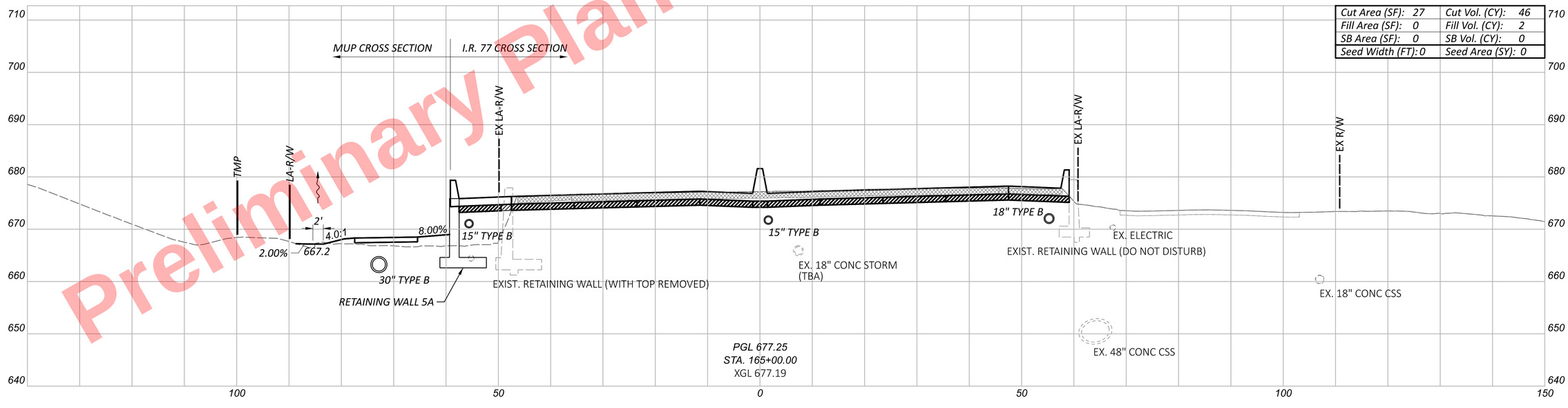
REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.443 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





NOTE: DRAINANGE CONDUIT SHOWN ADJACENT TO WALLS ARE OFFSET A MINIMUM OF 6" HORIZONTALLY FROM THE WALL.

Preliminary Plans - For Reference Only

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
0	97	2	0

CROSS SECTIONS - I.R. 77
STA. 165+00.00 TO STA. 165+50.00

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.444 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 165+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:48 AM USER: kperkins
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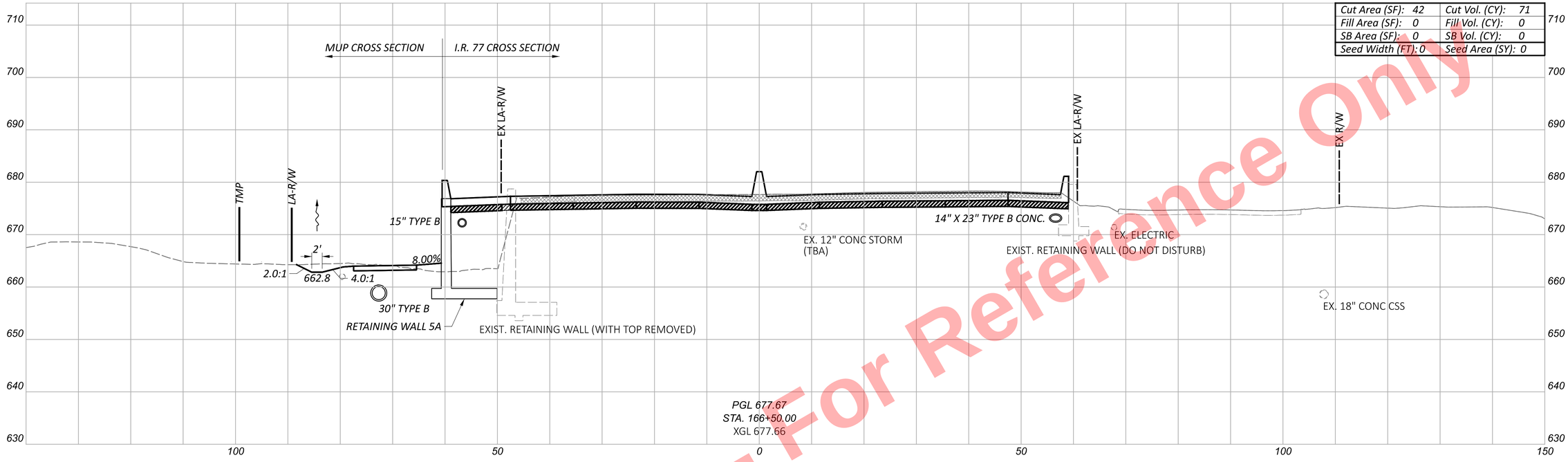
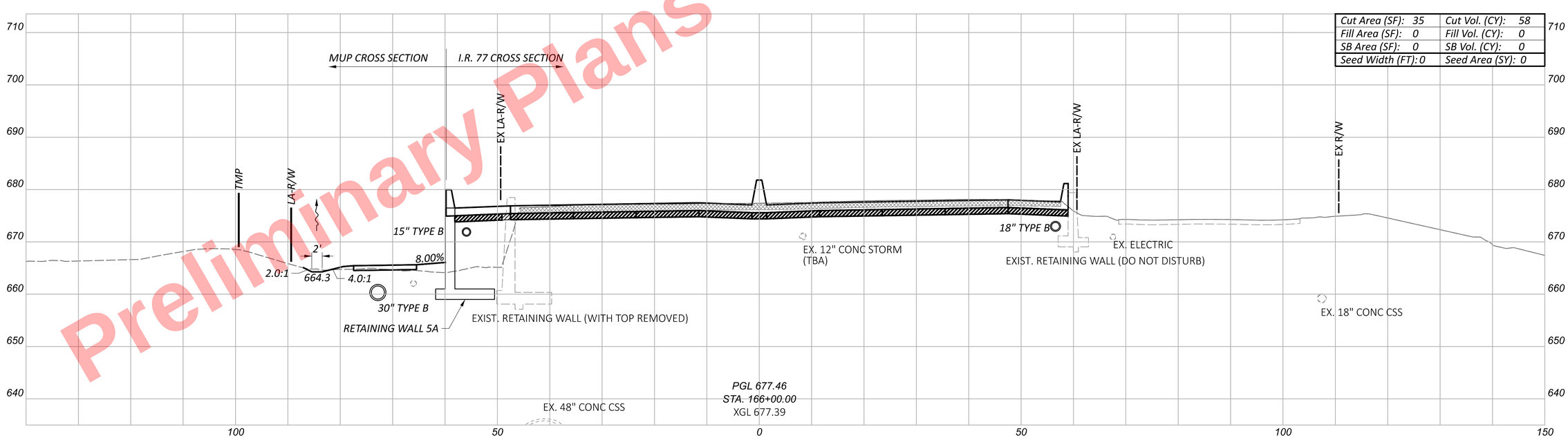
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





NOTE: DRAINANGE CONDUIT SHOWN ADJACENT TO WALLS ARE OFFSET A MINIMUM OF 6" HORIZONTALLY FROM THE WALL.

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 166+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:39:54 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 166+00.00 TO STA. 166+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
0	129	0	0

DESIGN AGENCY
HNTB

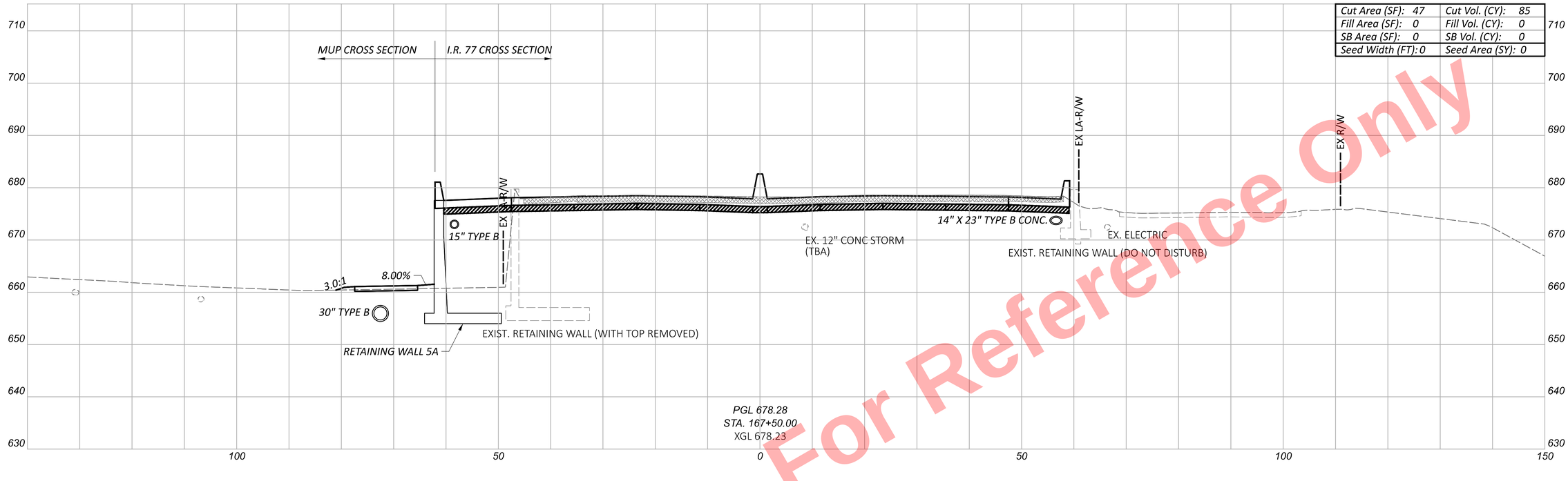
DESIGNER
EAP

REVIEWER
MTR 04/01/22

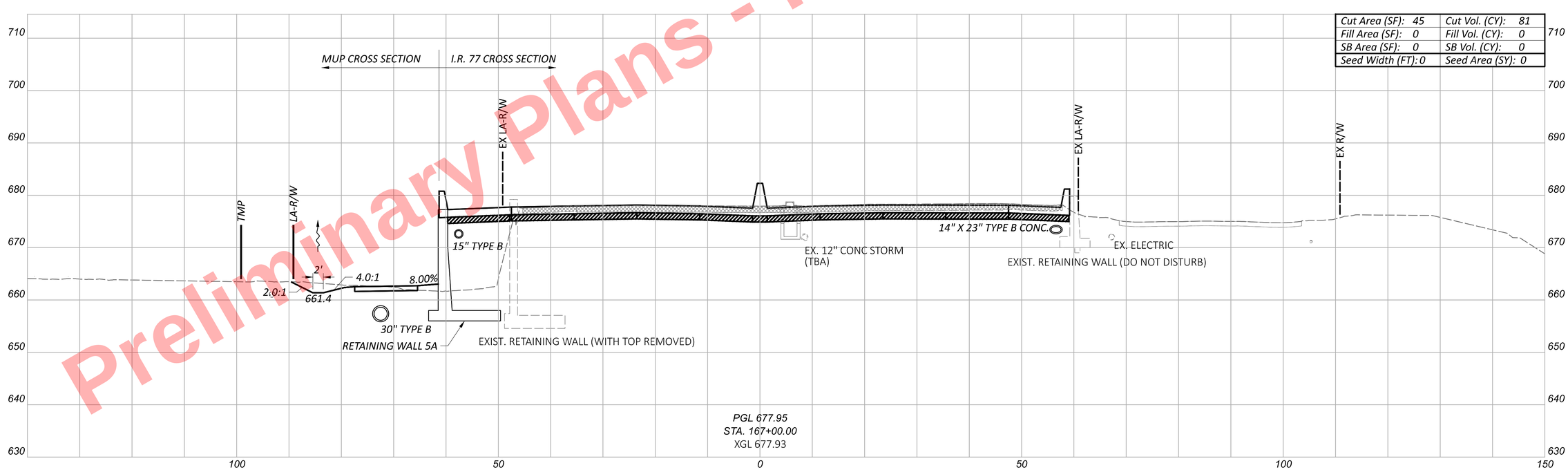
PROJECT ID
105743

SHEET P.445 | TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	47	Cut Vol. (CY):	85
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0



Cut Area (SF):	45	Cut Vol. (CY):	81
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0

NOTE: DRAINANGE CONDUIT SHOWN ADJACENT TO WALLS ARE OFFSET A MINIMUM OF 6" HORIZONTALLY FROM THE WALL.

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 167+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:40:00 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 167+00.00 TO STA. 167+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

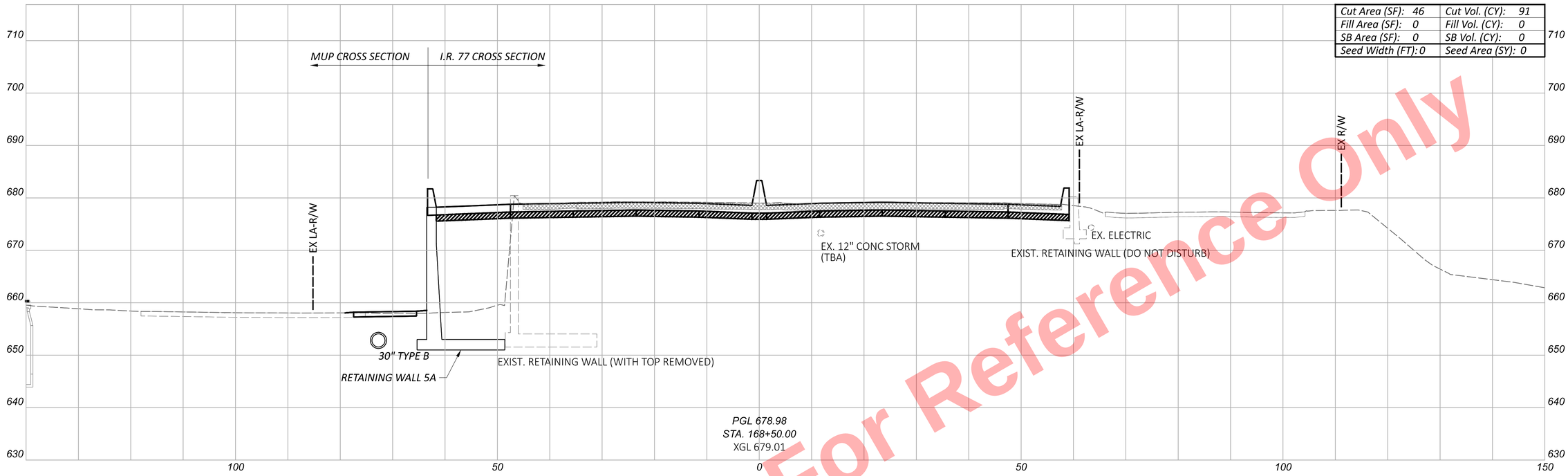
REVIEWER
MTR 04/01/22

PROJECT ID
105743

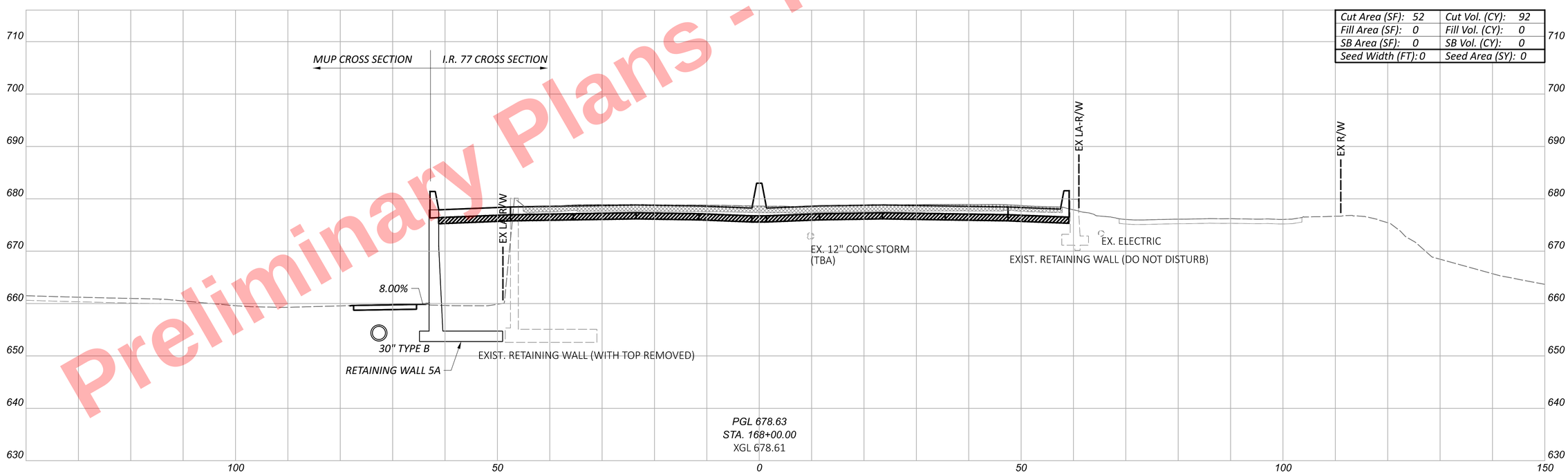
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
0	166	0	0

SHEET	TOTAL
P.446	P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	46	Cut Vol. (CY):	91
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0



Cut Area (SF):	52	Cut Vol. (CY):	92
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 168+00.00 TO STA. 168+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
0	183	0	0

SHEET	TOTAL
P.447	P.1269

CUY-77-11.41 - PART 1

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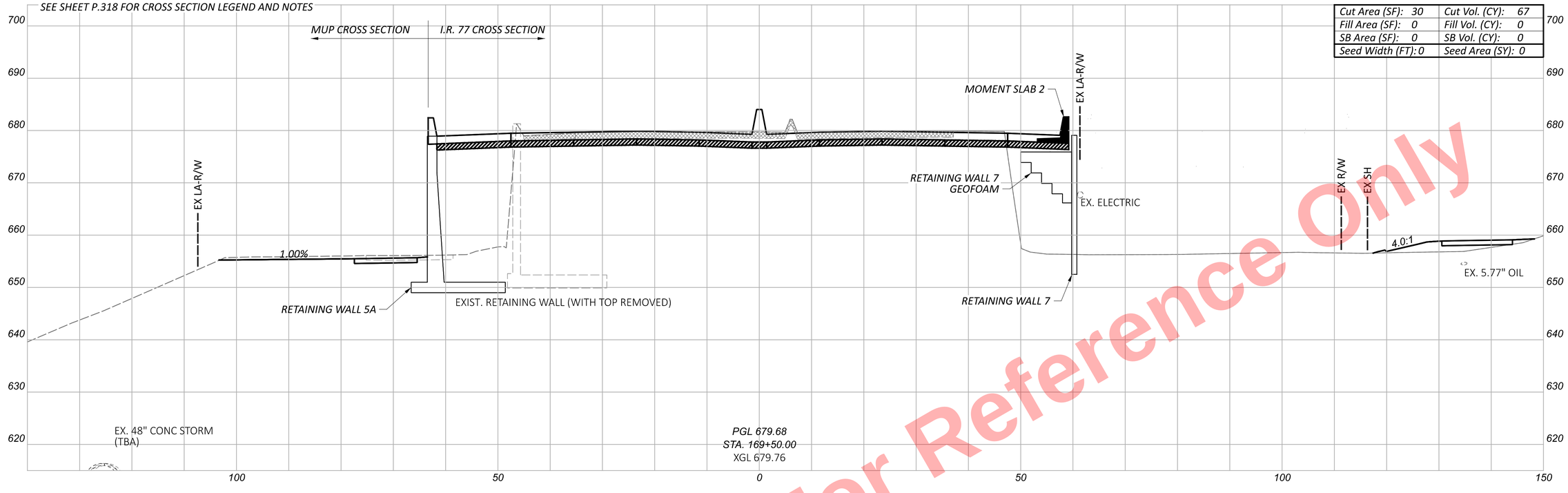
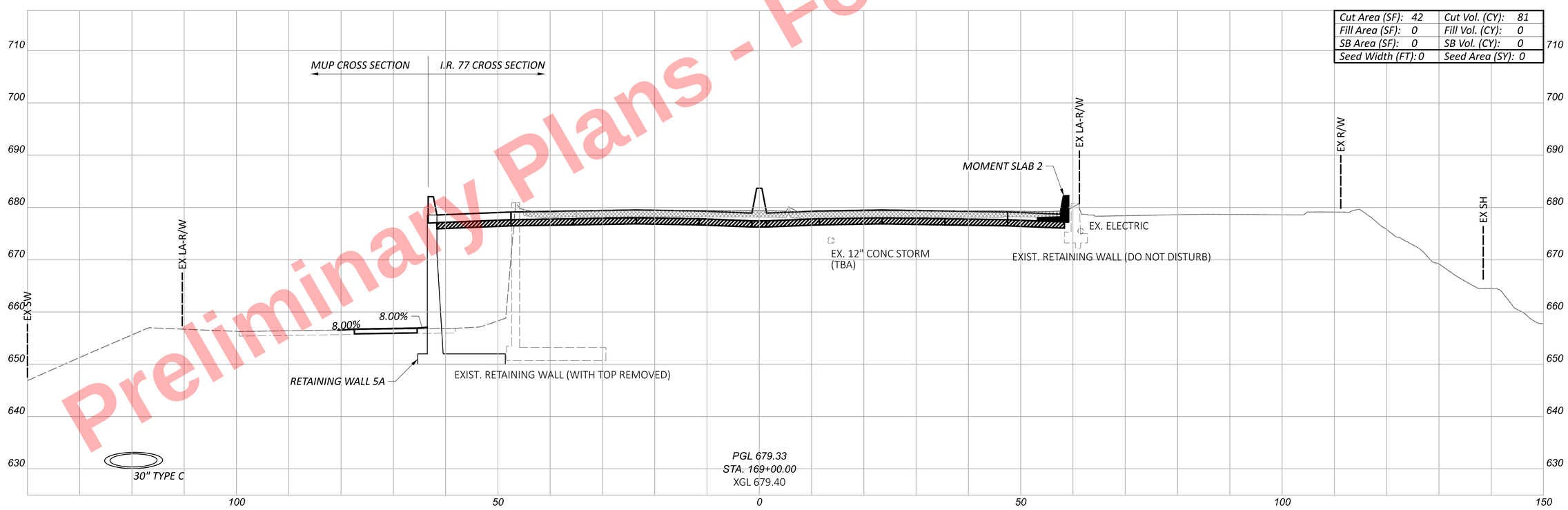
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 169+00.00 TO STA. 169+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
0	148	0	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.448 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 169+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:40:13 AM USER: kperkins
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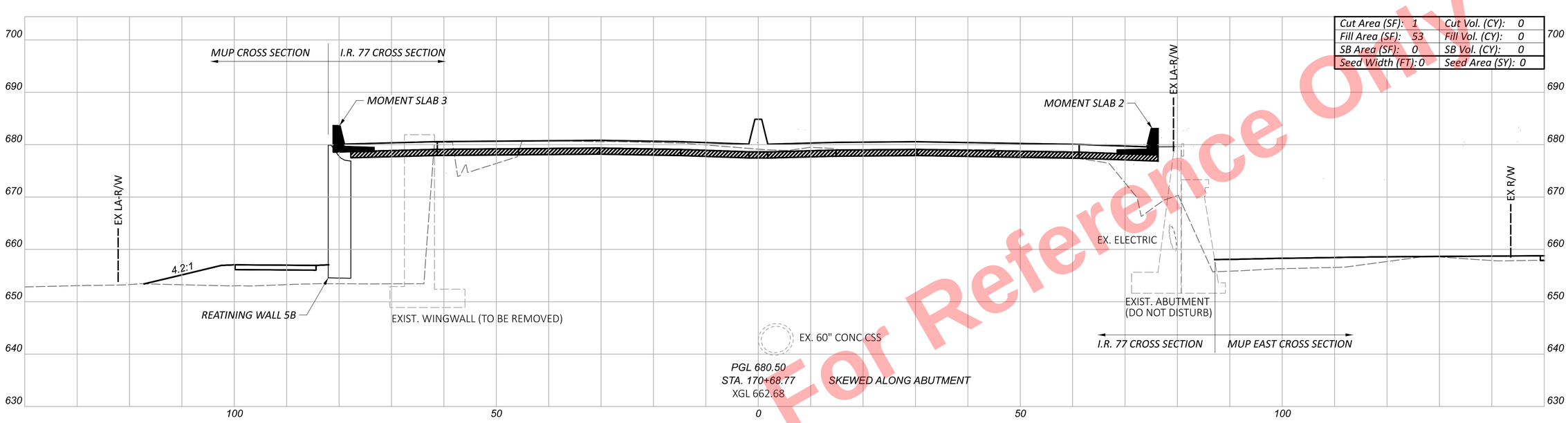
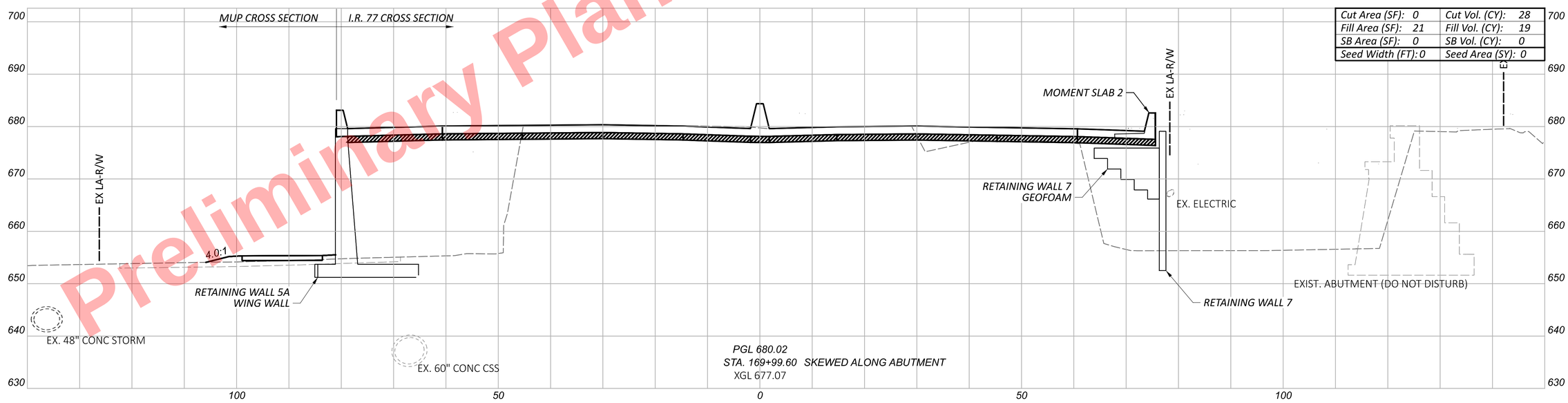
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	1	Cut Vol. (CY):	0
Fill Area (SF):	53	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0



Cut Area (SF):	0	Cut Vol. (CY):	28
Fill Area (SF):	21	Fill Vol. (CY):	19
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 170+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:40:19 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 170+00.00 TO STA. 170+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
0	28	19	0

DESIGN AGENCY
HNTB

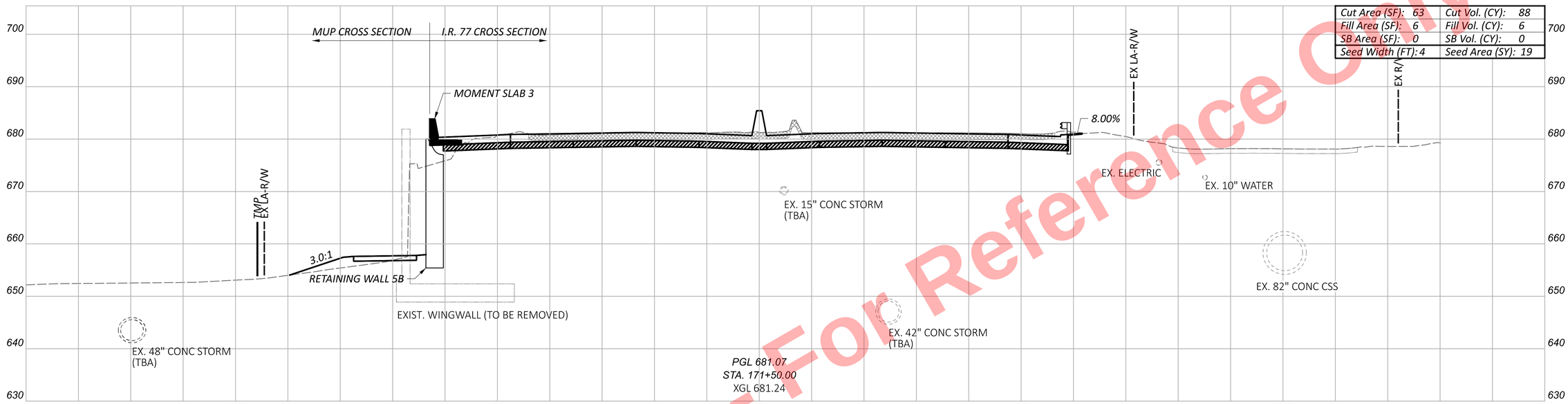
DESIGNER
EAP

REVIEWER
MTR 04/01/22

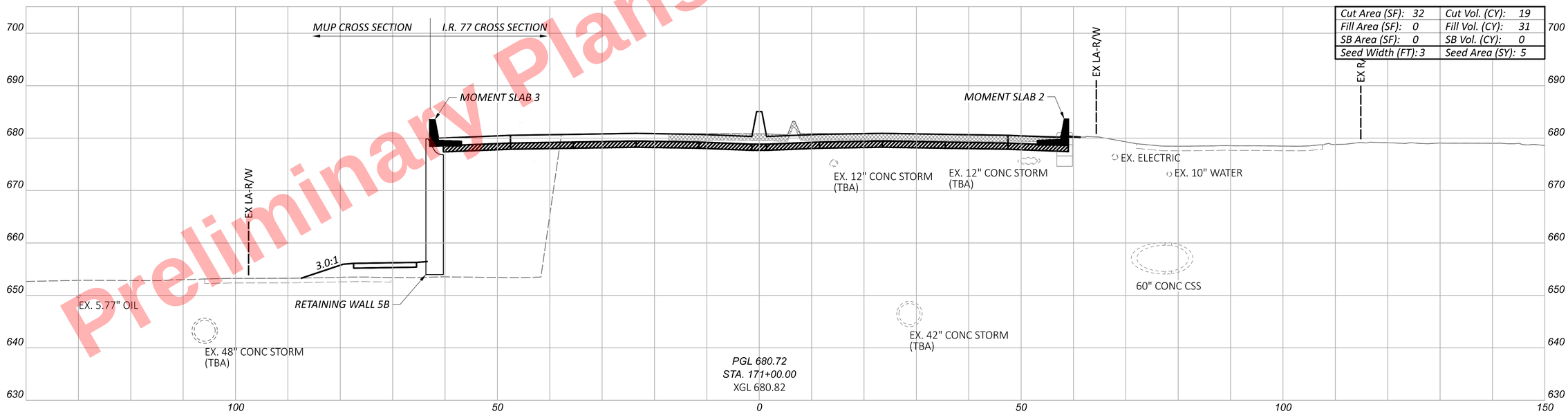
PROJECT ID
105743

SHEET P.449 | TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	63	Cut Vol. (CY):	88
Fill Area (SF):	6	Fill Vol. (CY):	6
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	4	Seed Area (SY):	19



Cut Area (SF):	32	Cut Vol. (CY):	19
Fill Area (SF):	0	Fill Vol. (CY):	31
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	3	Seed Area (SY):	5

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 171+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:40:21 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS102.dgn

CROSS SECTIONS - I.R. 77
STA. 171+00.00 TO STA. 171+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
24	107	37	0

DESIGN AGENCY
HNTB

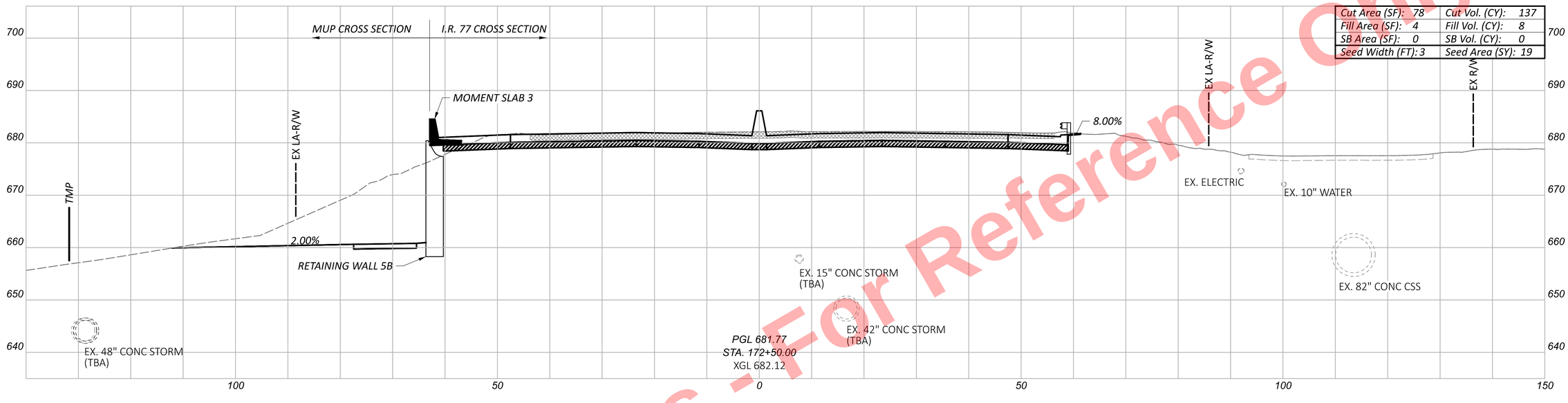
DESIGNER
EAP

REVIEWER
MTR 04/01/22

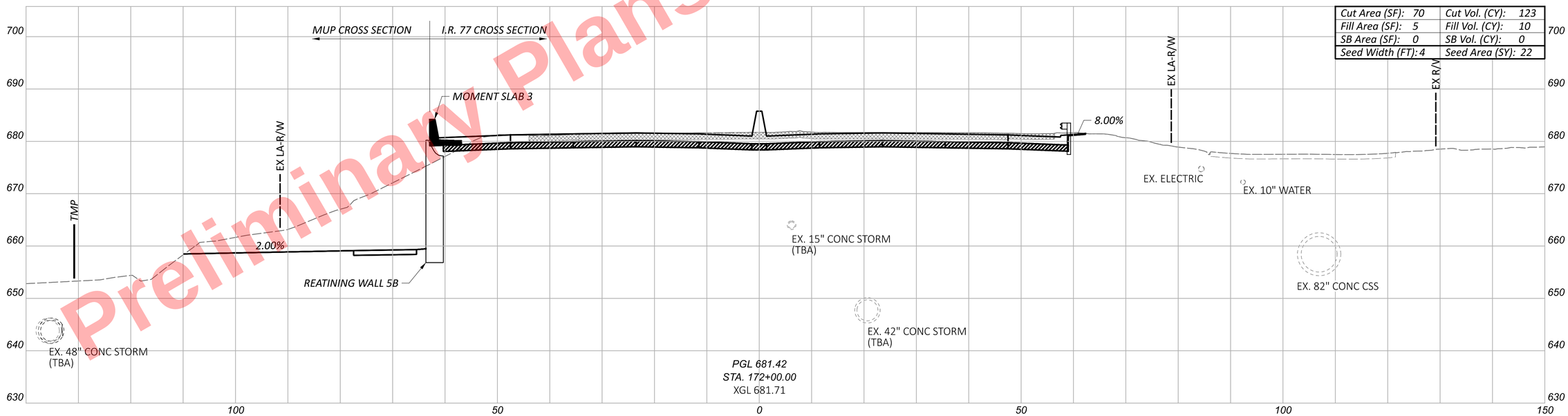
PROJECT ID
105743

SHEET P.450 | TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	78	Cut Vol. (CY):	137
Fill Area (SF):	4	Fill Vol. (CY):	8
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	3	Seed Area (SY):	19



Cut Area (SF):	70	Cut Vol. (CY):	123
Fill Area (SF):	5	Fill Vol. (CY):	10
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	4	Seed Area (SY):	22

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 172+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:40:28 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS102.dgn

CROSS SECTIONS - I.R. 77
STA. 172+00.00 TO STA. 172+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
41	260	18	0

DESIGN AGENCY
HNTB

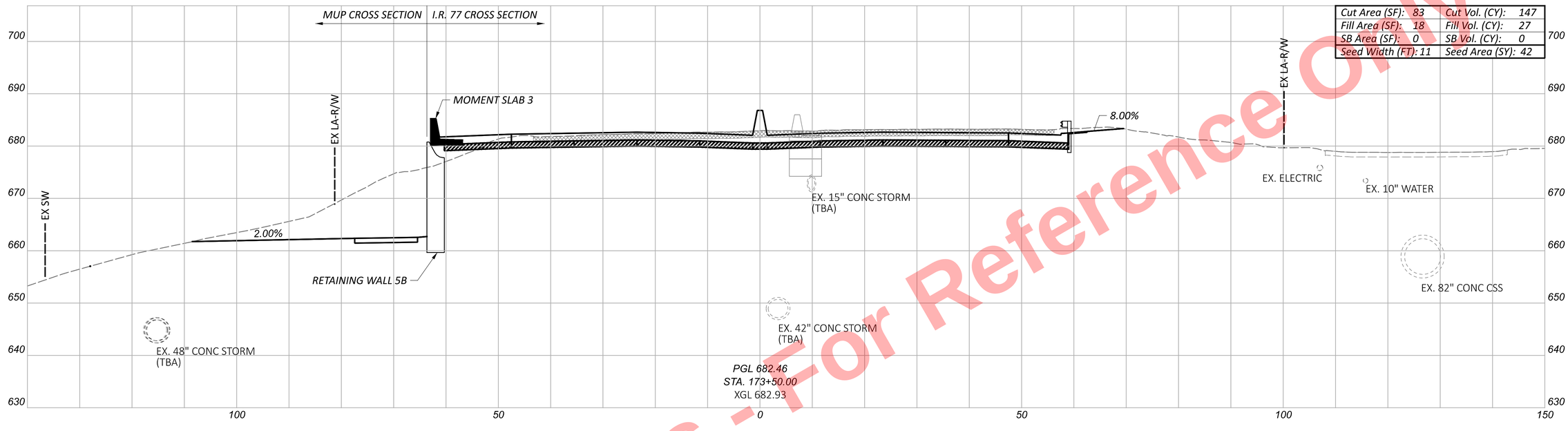
DESIGNER
EAP

REVIEWER
MTR 04/01/22

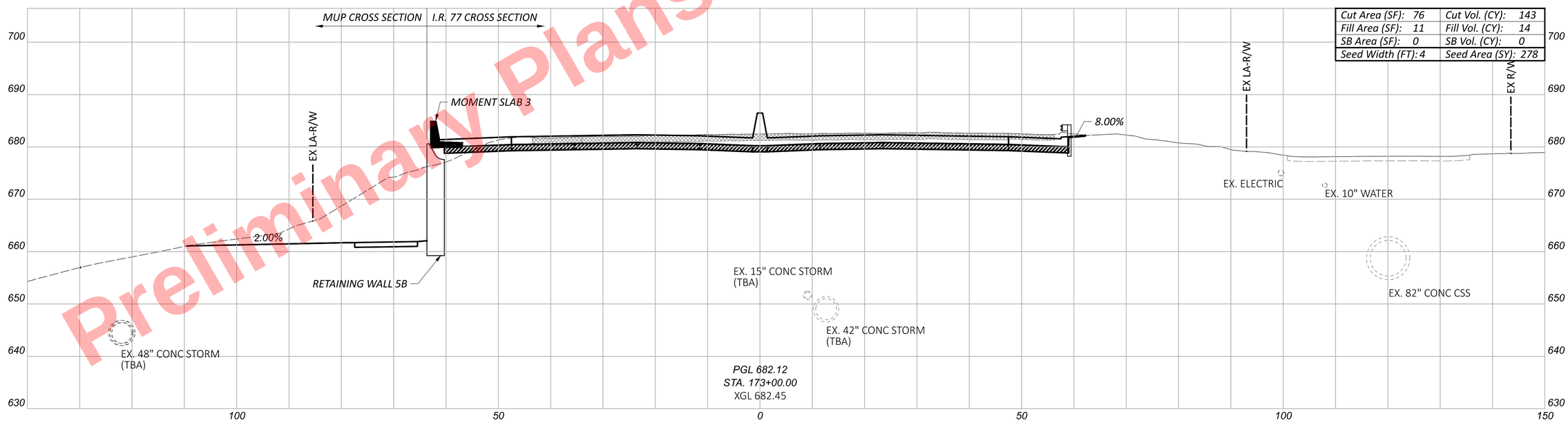
PROJECT ID
105743

SHEET P.451 | TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	83	Cut Vol. (CY):	147
Fill Area (SF):	18	Fill Vol. (CY):	27
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	11	Seed Area (SY):	42



Cut Area (SF):	76	Cut Vol. (CY):	143
Fill Area (SF):	11	Fill Vol. (CY):	14
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	4	Seed Area (SY):	278

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 173+00.00 TO STA. 173+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
320	290	41	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

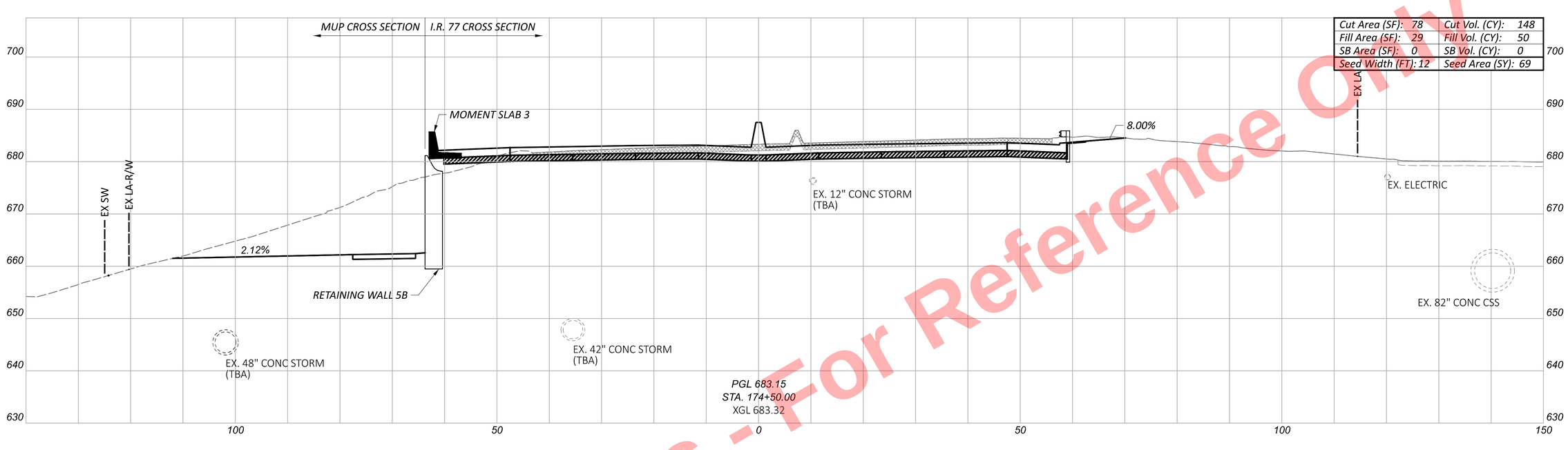
PROJECT ID
105743

SHEET P.452 | TOTAL P.1269

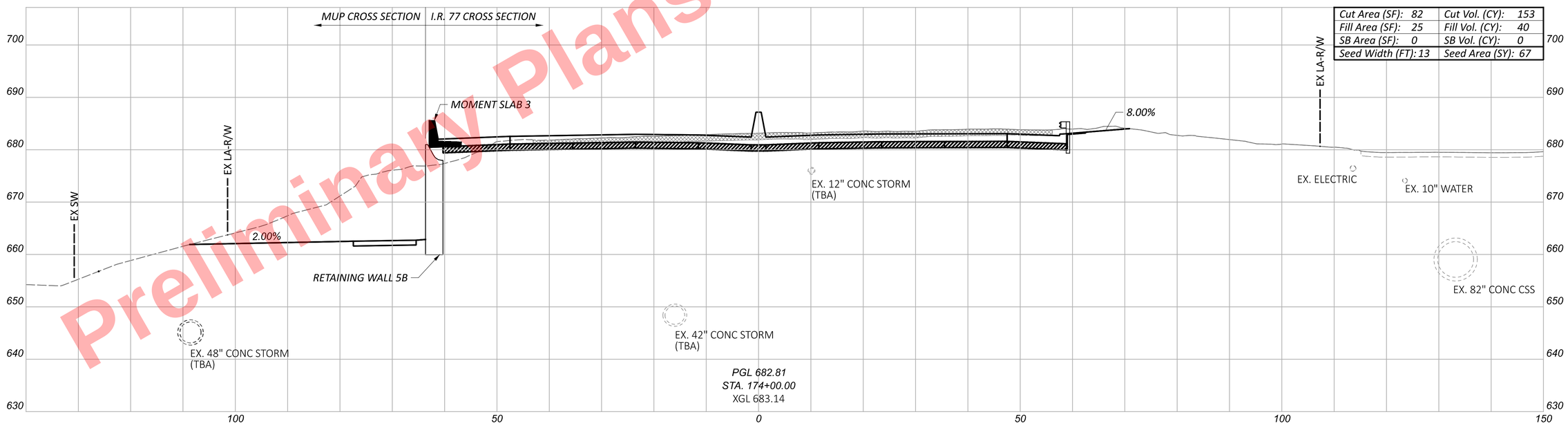
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 173+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:40:48 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	78	Cut Vol. (CY):	148
Fill Area (SF):	29	Fill Vol. (CY):	50
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	12	Seed Area (SY):	69



Cut Area (SF):	82	Cut Vol. (CY):	153
Fill Area (SF):	25	Fill Vol. (CY):	40
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	13	Seed Area (SY):	67

Preliminary Plans - For Reference Only

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
136	301	90	0

CUY-77-11.41 - PART 1

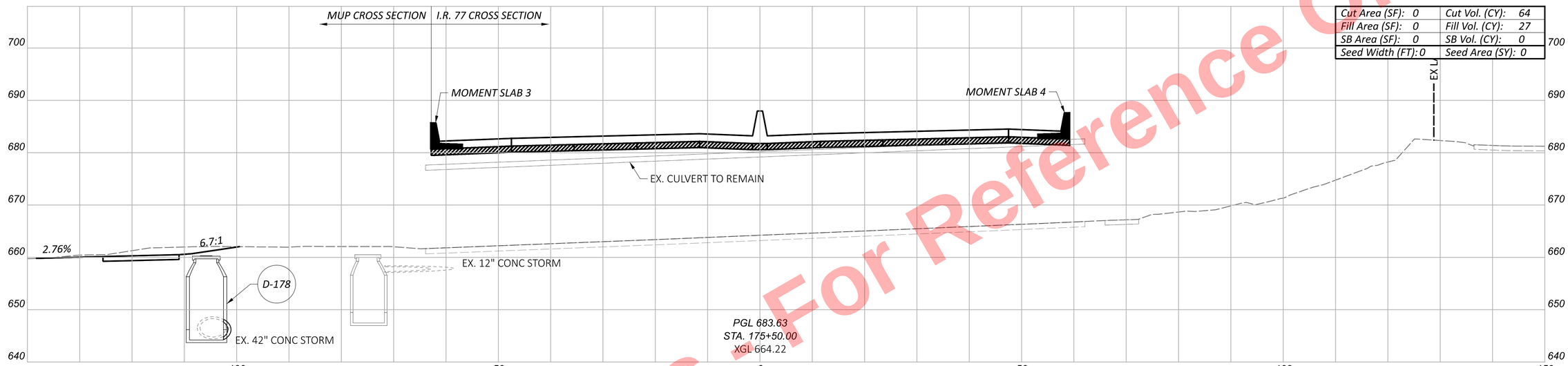
CROSS SECTIONS - I.R. 77
STA. 174+00.00 TO STA. 174+50.00

DESIGN AGENCY
HNTB

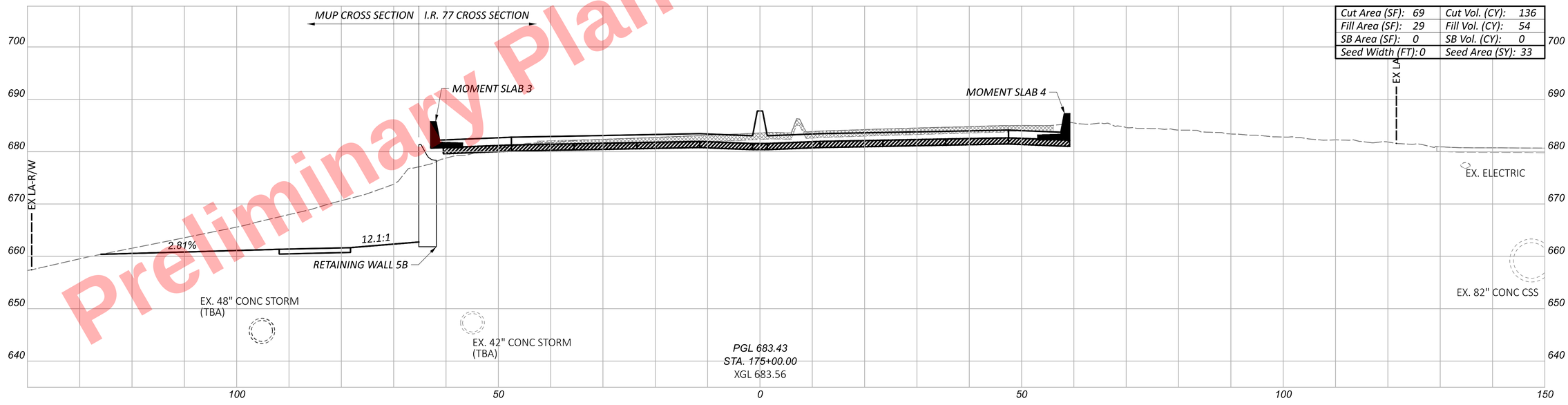
DESIGNER EAP
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.453 TOTAL P.1269

MODEL: CLP_I077 - 174+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:40:54 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 0	Cut Vol. (CY): 64
Fill Area (SF): 0	Fill Vol. (CY): 27
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 0	Seed Area (SY): 0



Cut Area (SF): 69	Cut Vol. (CY): 136
Fill Area (SF): 29	Fill Vol. (CY): 54
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 0	Seed Area (SY): 33

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 175+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:40:59 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 175+00.00 TO STA. 175+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
33	200	81	0

DESIGN AGENCY
HNTB

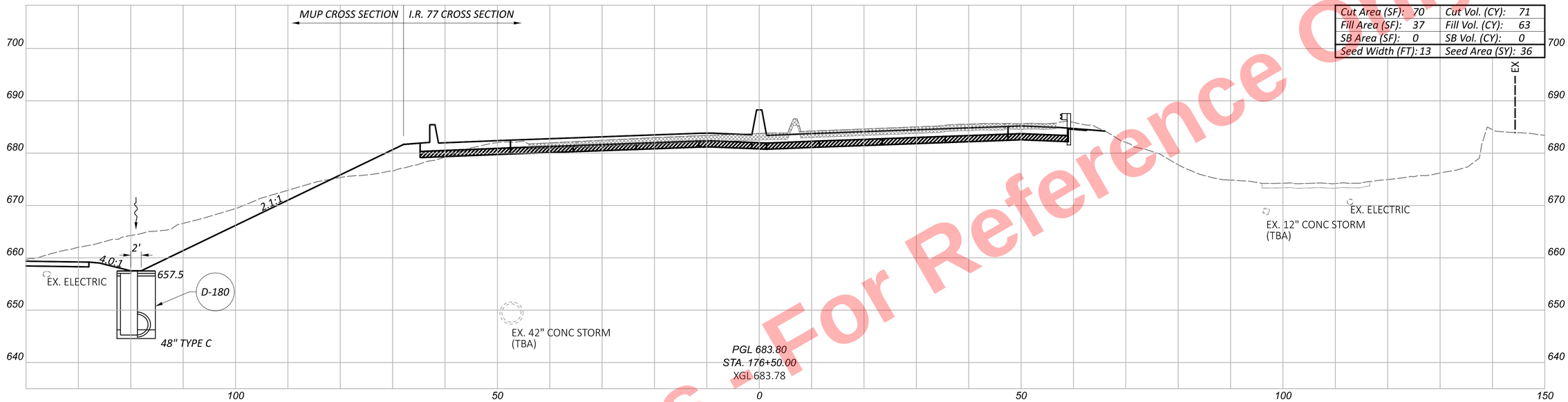
DESIGNER
EAP

REVIEWER
MTR 04/01/22

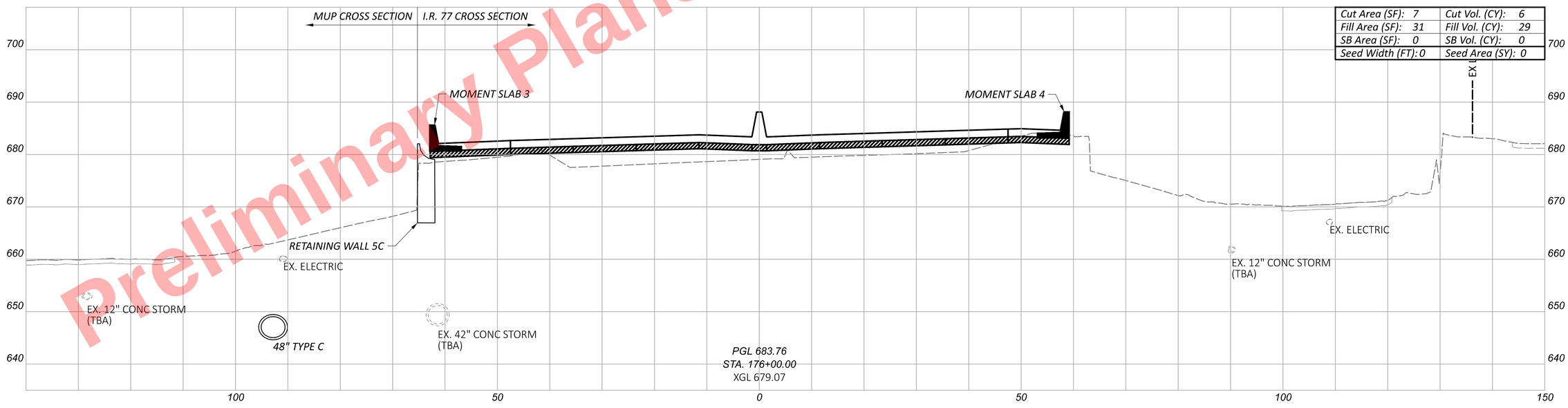
PROJECT ID
105743

SHEET P.454 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	70	Cut Vol. (CY):	71
Fill Area (SF):	37	Fill Vol. (CY):	63
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	13	Seed Area (SY):	36



Cut Area (SF):	7	Cut Vol. (CY):	6
Fill Area (SF):	31	Fill Vol. (CY):	29
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 176+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:41:06 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 176+00.00 TO STA. 176+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
36	77	92	0

DESIGN AGENCY
HNTB

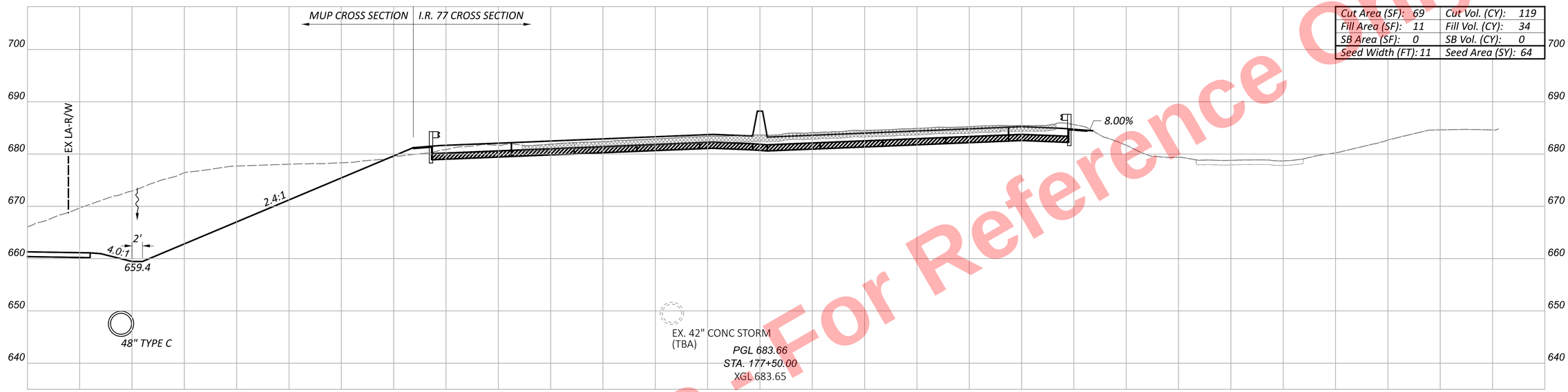
DESIGNER
EAP

REVIEWER
MTR 04/01/22

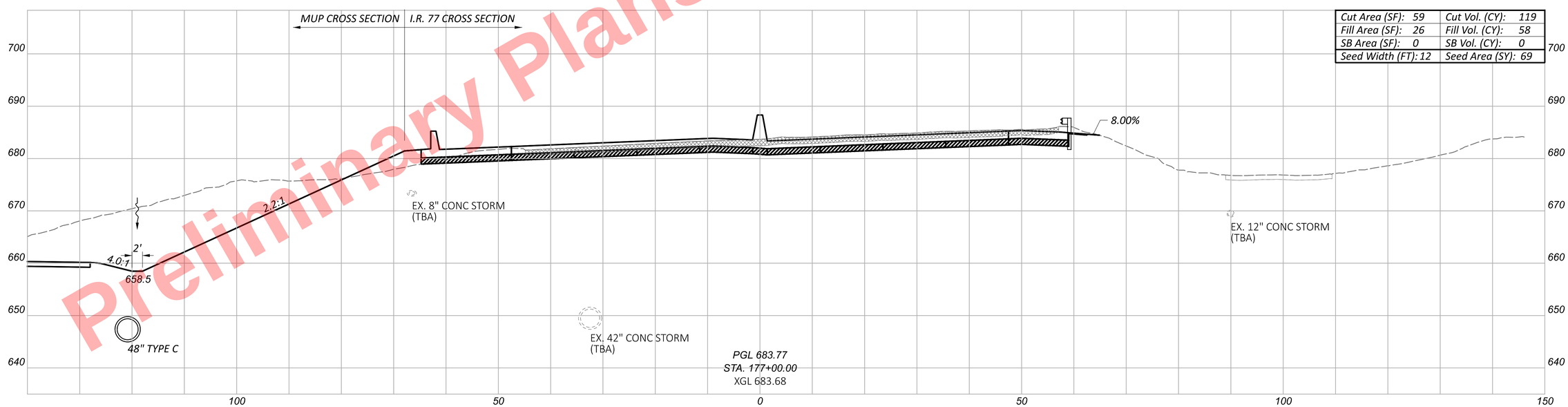
PROJECT ID
105743

SHEET P.455 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	69	Cut Vol. (CY):	119
Fill Area (SF):	11	Fill Vol. (CY):	34
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	11	Seed Area (SY):	64



Cut Area (SF):	59	Cut Vol. (CY):	119
Fill Area (SF):	26	Fill Vol. (CY):	58
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	12	Seed Area (SY):	69

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 177+00.00 TO STA. 177+50.00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 177+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:41:13 AM USER: kperkins
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Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
133	238	92	0

DESIGN AGENCY
HNTB

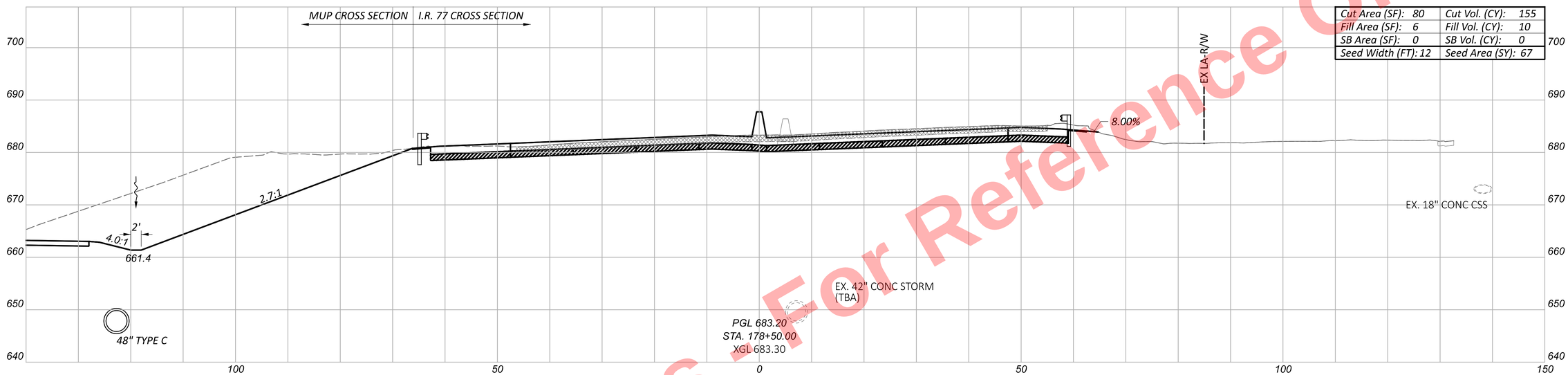
DESIGNER
EAP

REVIEWER
MTR 04/01/22

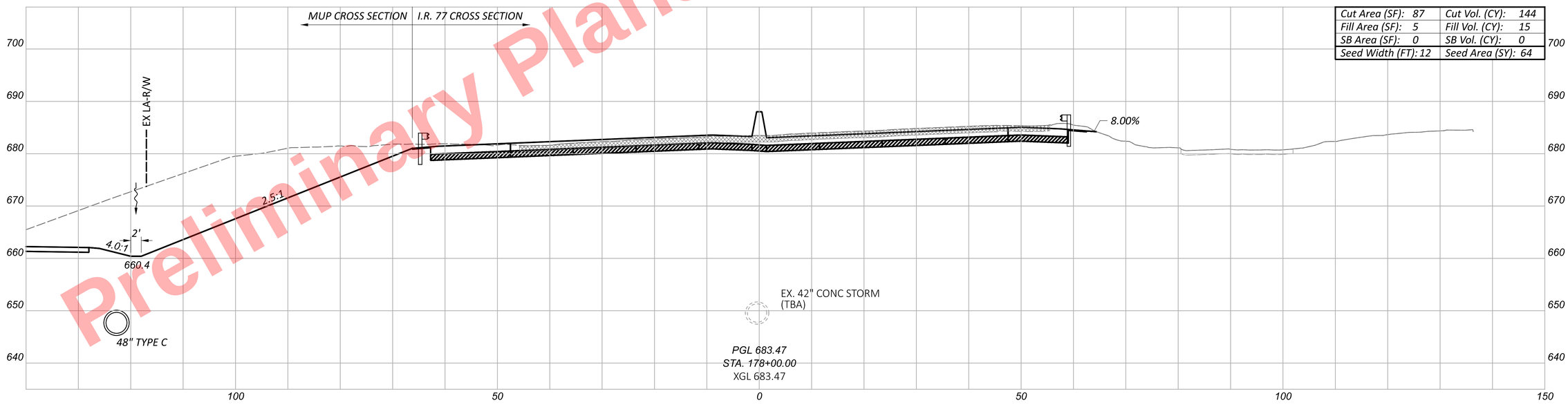
PROJECT ID
105743

SHEET P.456 | TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	80	Cut Vol. (CY):	155
Fill Area (SF):	6	Fill Vol. (CY):	10
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	12	Seed Area (SY):	67



Cut Area (SF):	87	Cut Vol. (CY):	144
Fill Area (SF):	5	Fill Vol. (CY):	15
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	12	Seed Area (SY):	64

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 178+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:41:18 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 178+00.00 TO STA. 178+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
131	299	25	0

DESIGN AGENCY
HNTB

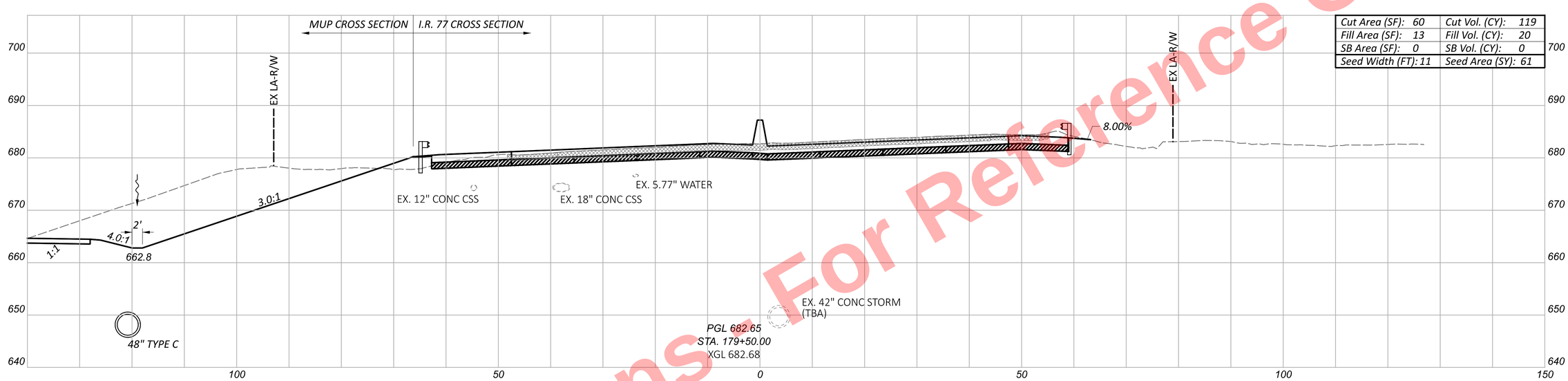
DESIGNER
EAP

REVIEWER
MTR 04/01/22

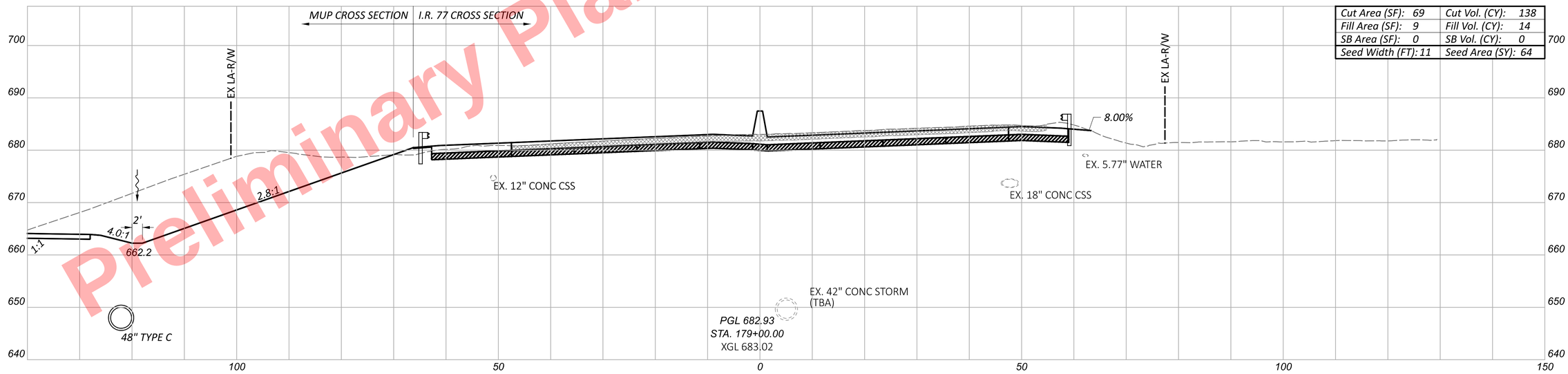
PROJECT ID
105743

SHEET P.457 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	60	Cut Vol. (CY):	119
Fill Area (SF):	13	Fill Vol. (CY):	20
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	11	Seed Area (SY):	61



Cut Area (SF):	69	Cut Vol. (CY):	138
Fill Area (SF):	9	Fill Vol. (CY):	14
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	11	Seed Area (SY):	64

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 179+00.00 TO STA. 179+50.00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 179+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:41:24 AM USER: kperkins
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DESIGN AGENCY
HNTB

DESIGNER
EAP

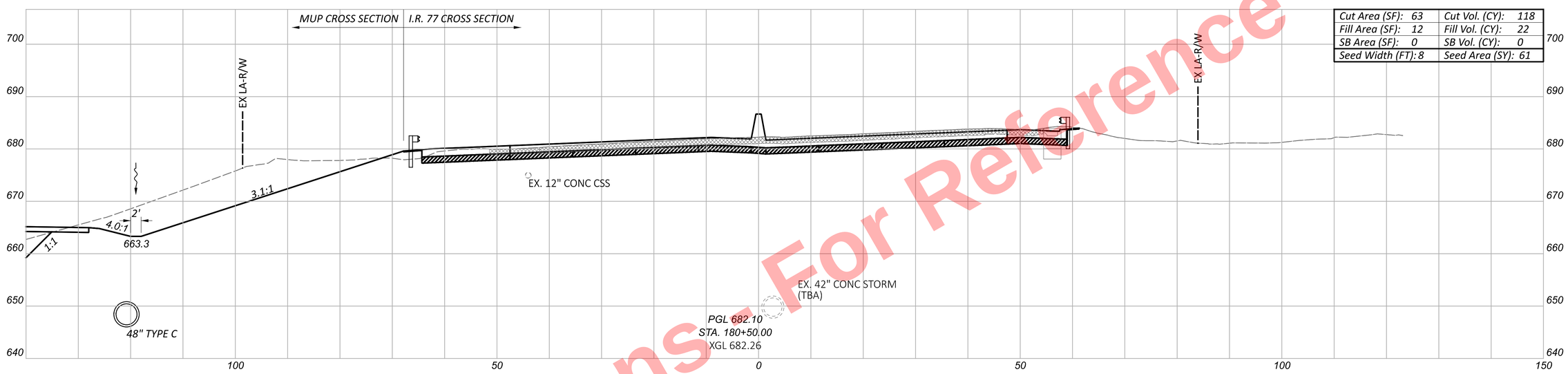
REVIEWER
MTR 04/01/22

PROJECT ID
105743

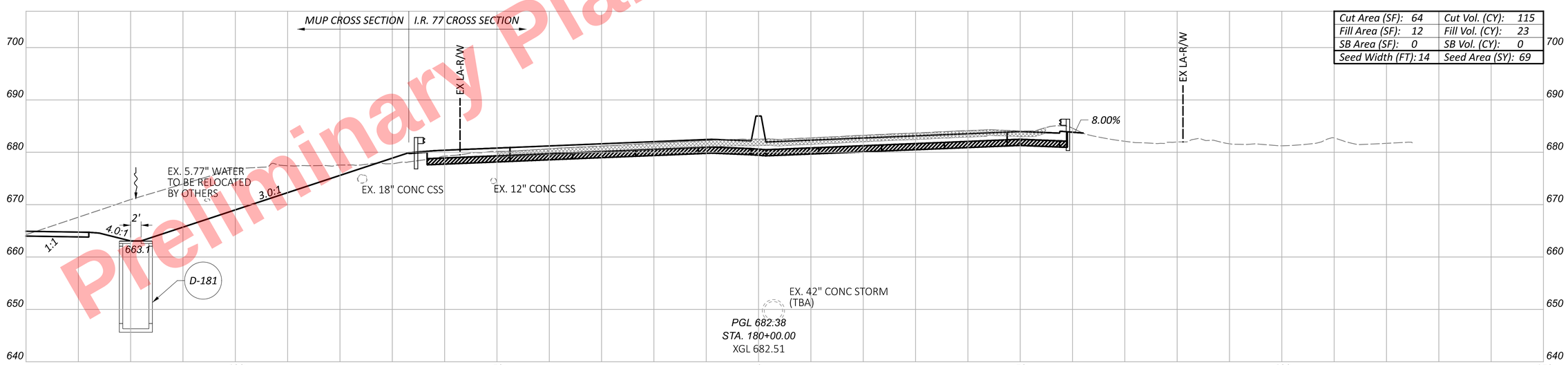
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
125	257	34	0

SHEET	TOTAL
P.458	P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 63	Cut Vol. (CY): 118
Fill Area (SF): 12	Fill Vol. (CY): 22
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 8	Seed Area (SY): 61



Cut Area (SF): 64	Cut Vol. (CY): 115
Fill Area (SF): 12	Fill Vol. (CY): 23
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 14	Seed Area (SY): 69

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 180+00.00 TO STA. 180+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
130	233	45	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

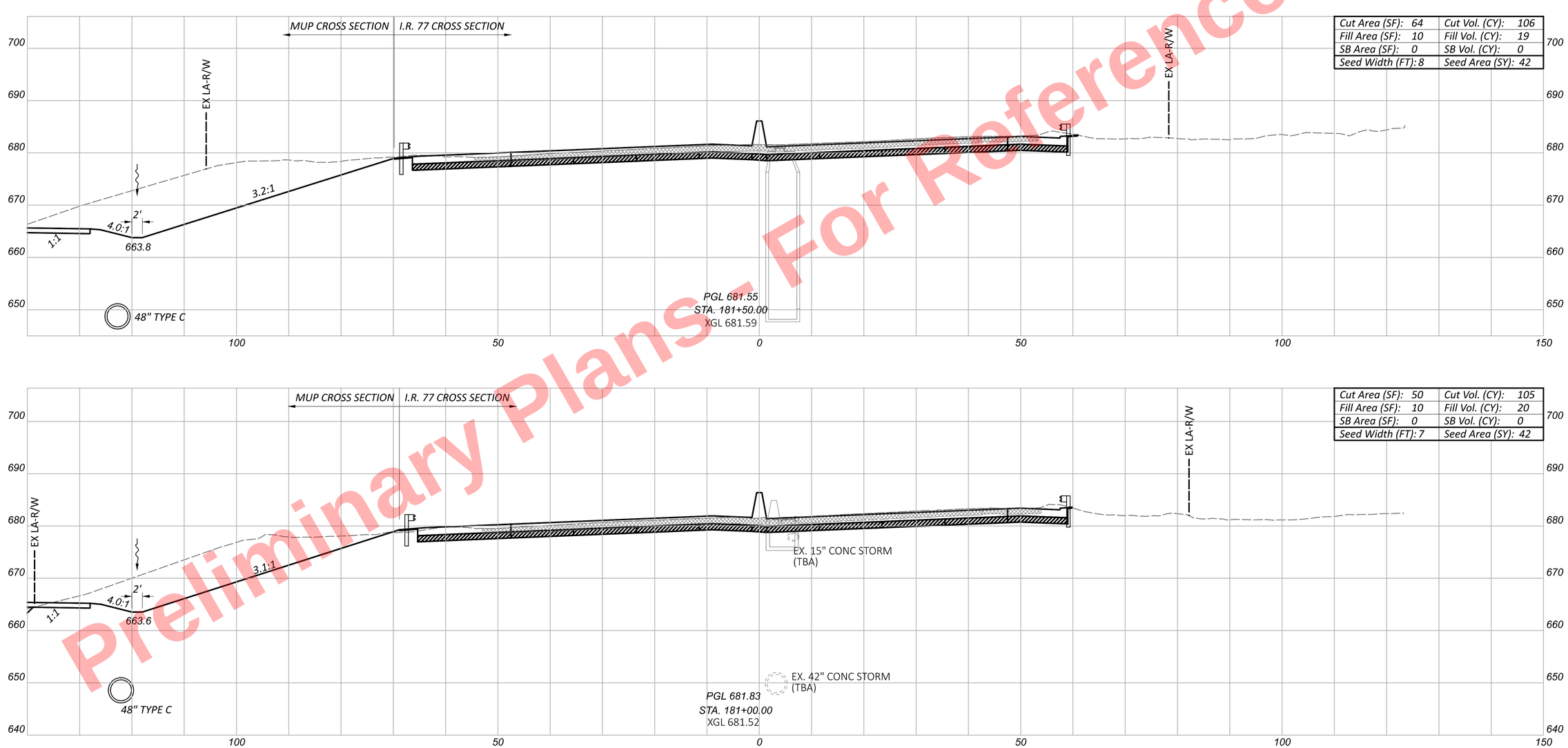
PROJECT ID
105743

SHEET P.459 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 180+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:41:29 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	64	Cut Vol. (CY):	106
Fill Area (SF):	10	Fill Vol. (CY):	19
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	8	Seed Area (SY):	42

Cut Area (SF):	50	Cut Vol. (CY):	105
Fill Area (SF):	10	Fill Vol. (CY):	20
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	7	Seed Area (SY):	42

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 181+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:41:34 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

CROSS SECTIONS - I.R. 77
STA. 181+00.00 TO STA. 181+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

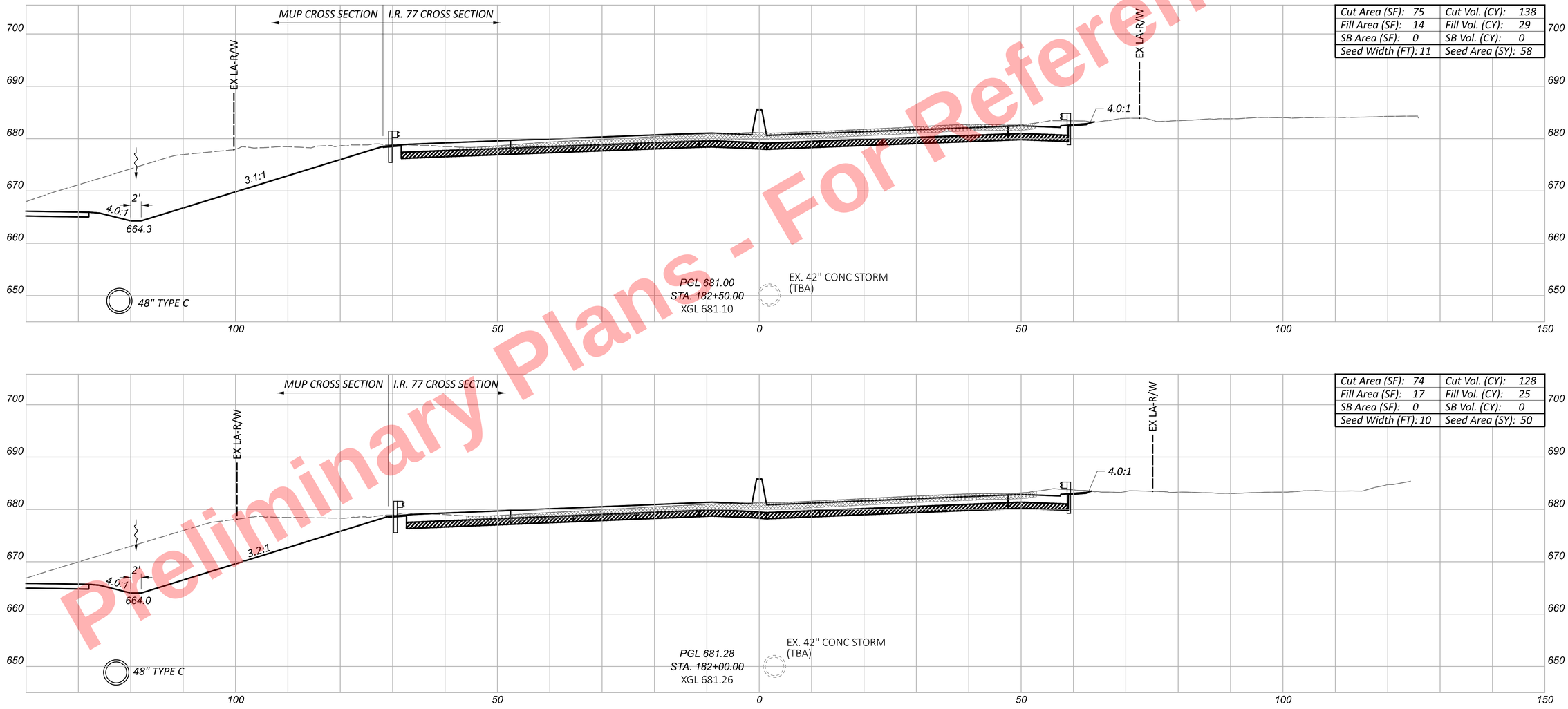
REVIEWER
MTR 04/01/22

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
84	211	39	0

SHEET P.460 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 75	Cut Vol. (CY): 138
Fill Area (SF): 14	Fill Vol. (CY): 29
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 11	Seed Area (SY): 58

Cut Area (SF): 74	Cut Vol. (CY): 128
Fill Area (SF): 17	Fill Vol. (CY): 25
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 10	Seed Area (SY): 50

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 182+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:41:39 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

CROSS SECTIONS - I.R. 77
STA. 182+00.00 TO STA. 182+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

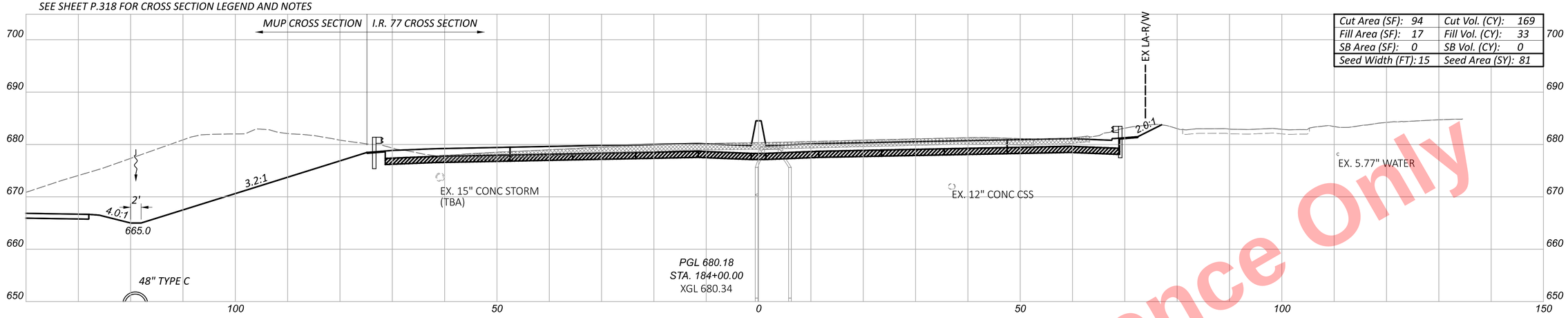
REVIEWER
MTR 04/01/22

PROJECT ID
105743

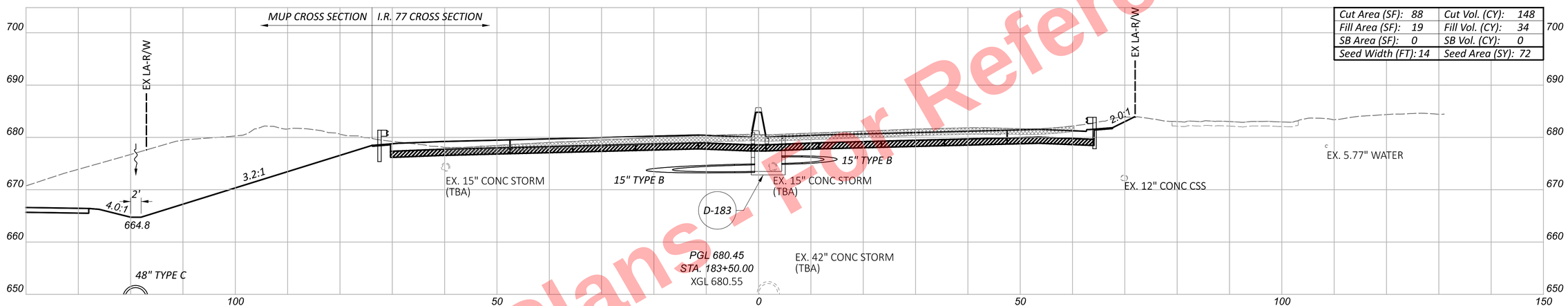
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
108	266	54	0

SHEET	TOTAL
P.461	P.1269

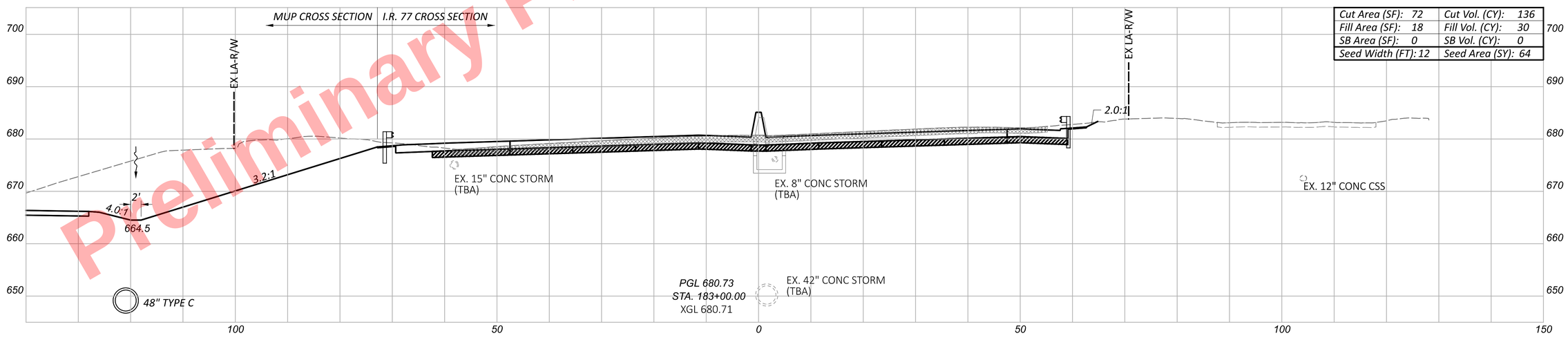
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	94	Cut Vol. (CY):	169
Fill Area (SF):	17	Fill Vol. (CY):	33
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	15	Seed Area (SY):	81



Cut Area (SF):	88	Cut Vol. (CY):	148
Fill Area (SF):	19	Fill Vol. (CY):	34
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	14	Seed Area (SY):	72



Cut Area (SF):	72	Cut Vol. (CY):	136
Fill Area (SF):	18	Fill Vol. (CY):	30
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	12	Seed Area (SY):	64

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

CROSS SECTIONS - I.R. 77
STA. 183+00.00 TO STA. 184+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
217	453	97	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

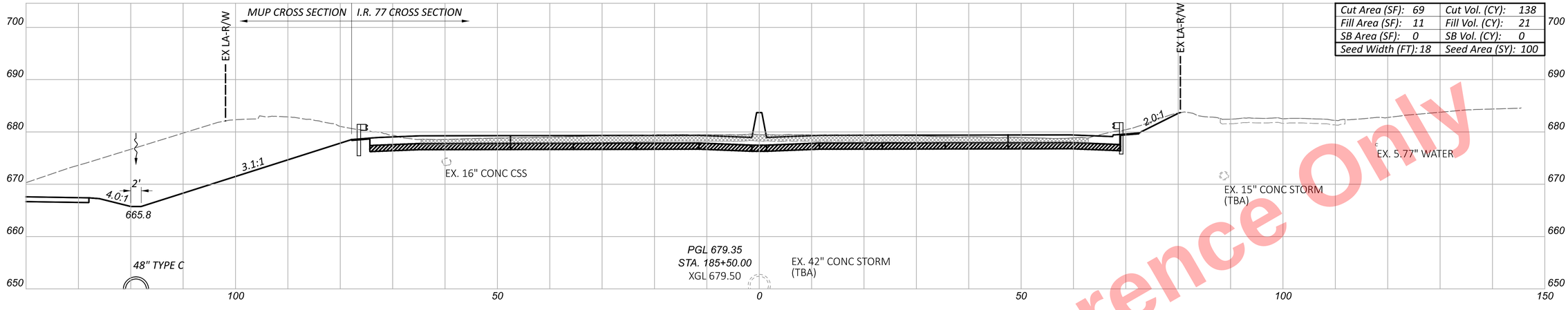
REVIEWER
MTR 04/01/22

PROJECT ID
105743

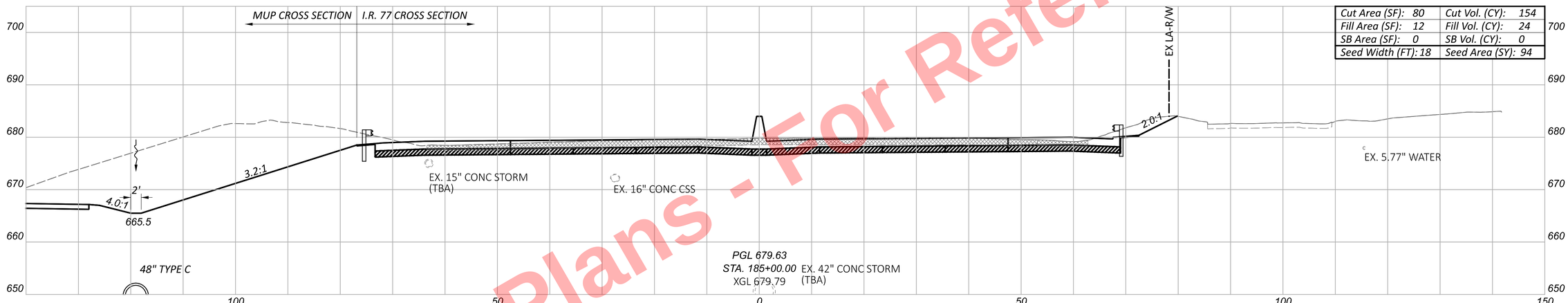
SHEET P.462 | TOTAL P.1269

MODEL: CLP_I077 - 183+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:41:44 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

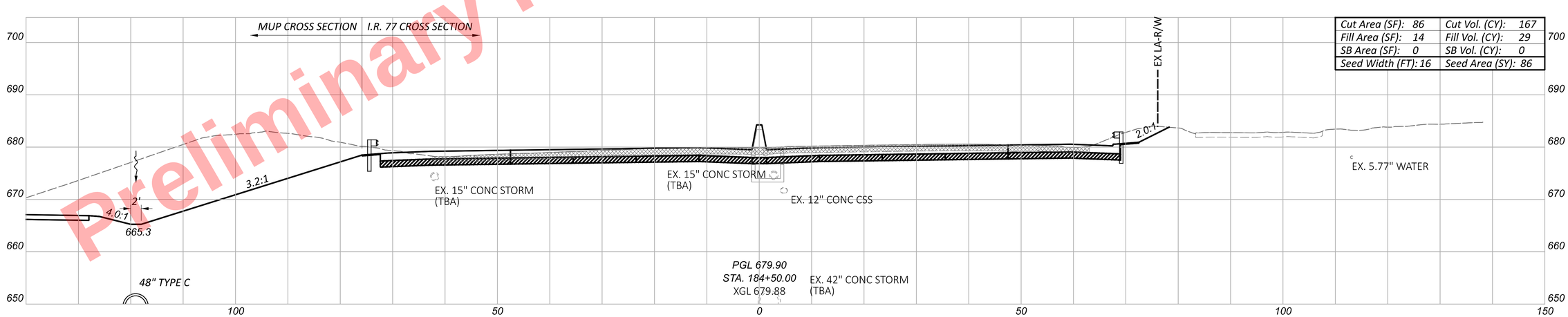
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 69	Cut Vol. (CY): 138
Fill Area (SF): 11	Fill Vol. (CY): 21
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 18	Seed Area (SY): 100



Cut Area (SF): 80	Cut Vol. (CY): 154
Fill Area (SF): 12	Fill Vol. (CY): 24
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 18	Seed Area (SY): 94



Cut Area (SF): 86	Cut Vol. (CY): 167
Fill Area (SF): 14	Fill Vol. (CY): 29
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 16	Seed Area (SY): 86

Preliminary Plans - Not For Reference Only

CROSS SECTIONS - I.R. 77
STA. 184+50.00 TO STA. 185+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

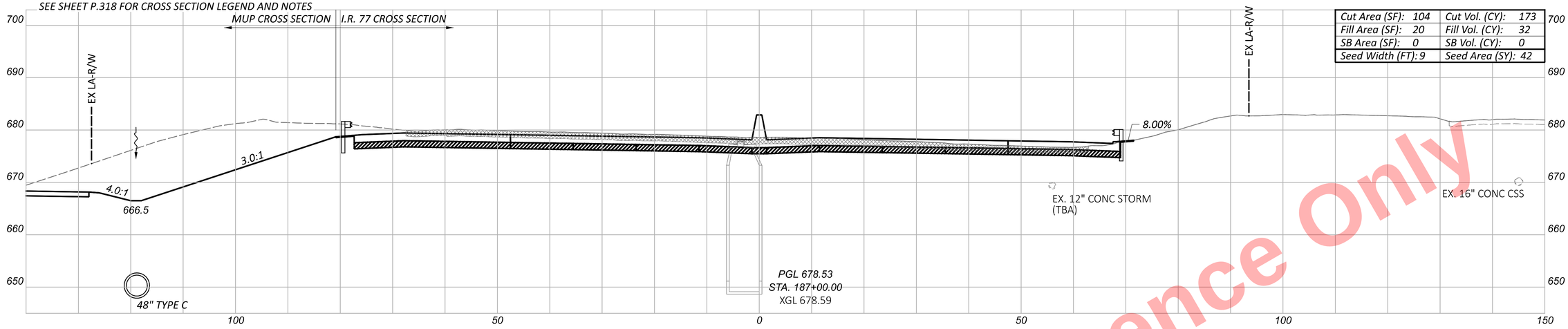
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
280	459	74	0

SHEET P.463 TOTAL P.1269

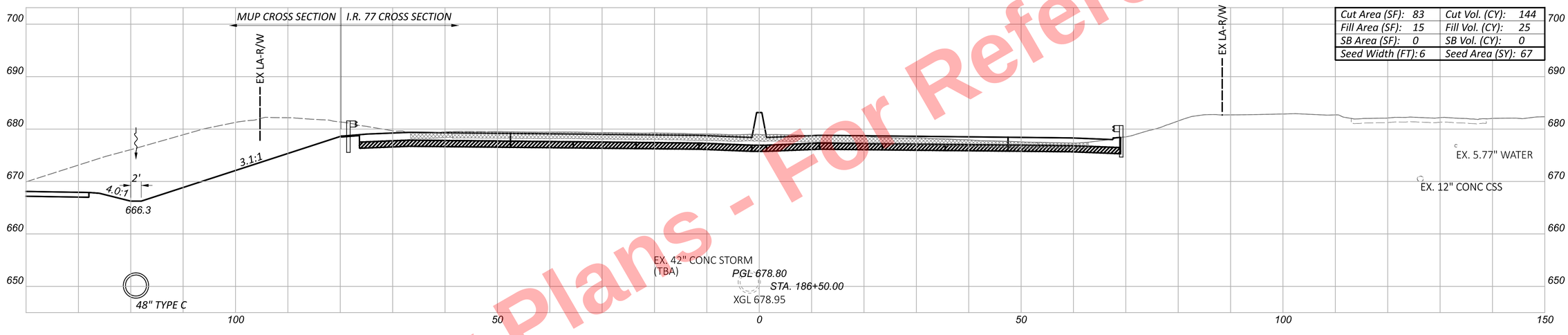
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 184+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:41:51 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

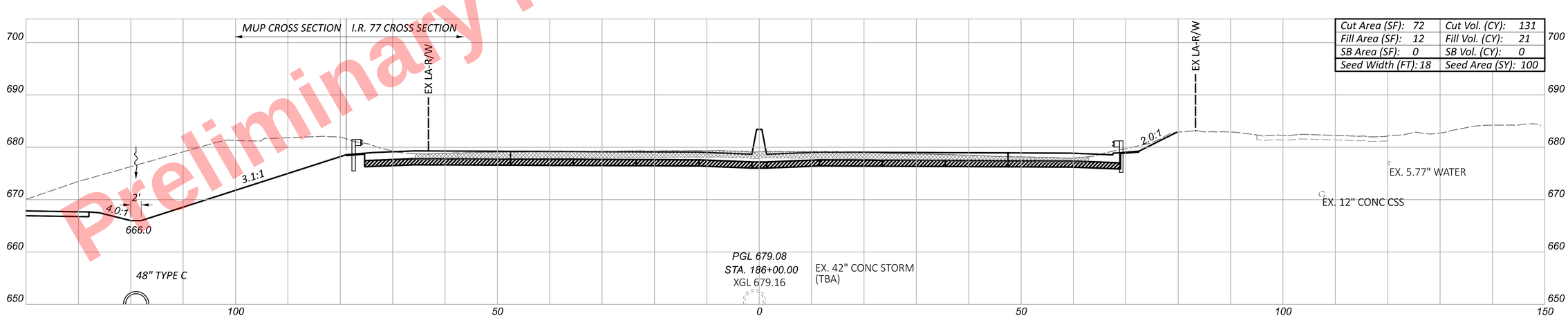
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	104	Cut Vol. (CY):	173
Fill Area (SF):	20	Fill Vol. (CY):	32
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	9	Seed Area (SY):	42



Cut Area (SF):	83	Cut Vol. (CY):	144
Fill Area (SF):	15	Fill Vol. (CY):	25
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	6	Seed Area (SY):	67



Cut Area (SF):	72	Cut Vol. (CY):	131
Fill Area (SF):	12	Fill Vol. (CY):	21
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	18	Seed Area (SY):	100

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 186+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:41:59 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

CROSS SECTIONS - I.R. 77
STA. 186+00.00 TO STA. 187+00.00

DESIGN AGENCY
HNTB

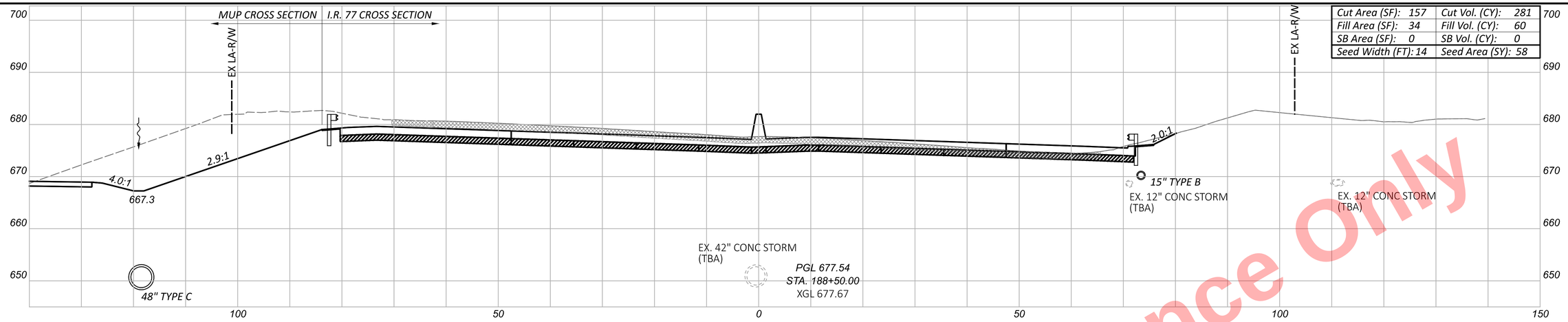
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

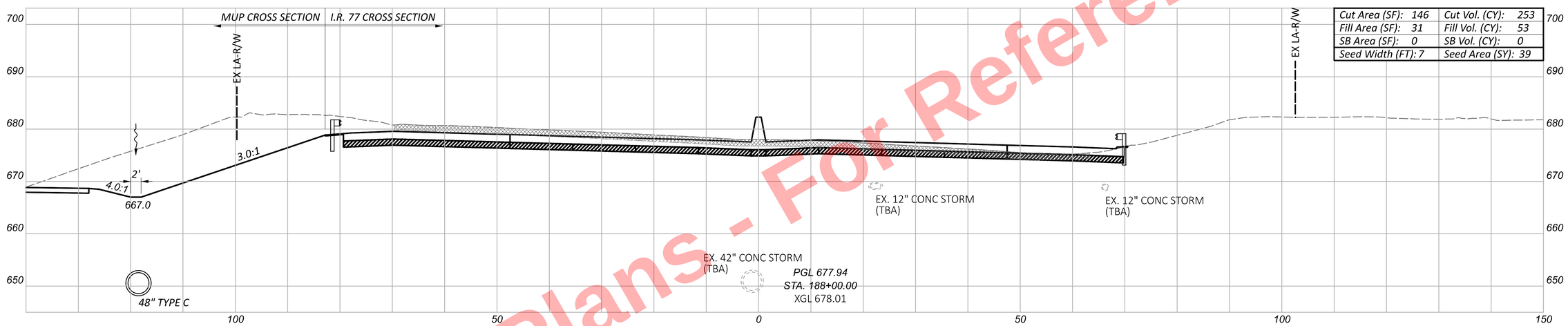
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
209	448	78	0

SHEET P.464 TOTAL P.1269

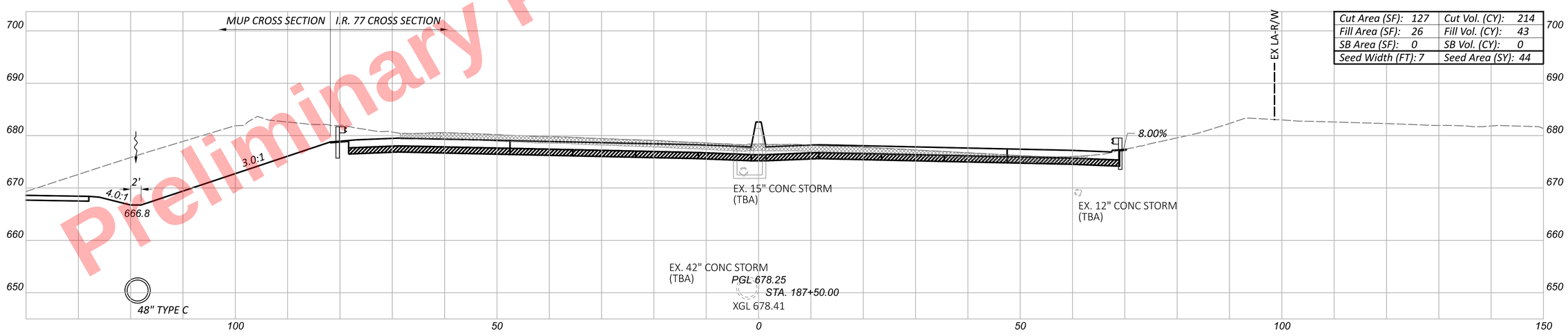


Cut Area (SF):	157	Cut Vol. (CY):	281
Fill Area (SF):	34	Fill Vol. (CY):	60
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	14	Seed Area (SY):	58

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	146	Cut Vol. (CY):	253
Fill Area (SF):	31	Fill Vol. (CY):	53
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	7	Seed Area (SY):	39



Cut Area (SF):	127	Cut Vol. (CY):	214
Fill Area (SF):	26	Fill Vol. (CY):	43
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	7	Seed Area (SY):	44

Preliminary Plans - For Reference Only

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
141	748	156	0

CROSS SECTIONS - I.R. 77
STA. 187+50.00 TO STA. 188+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

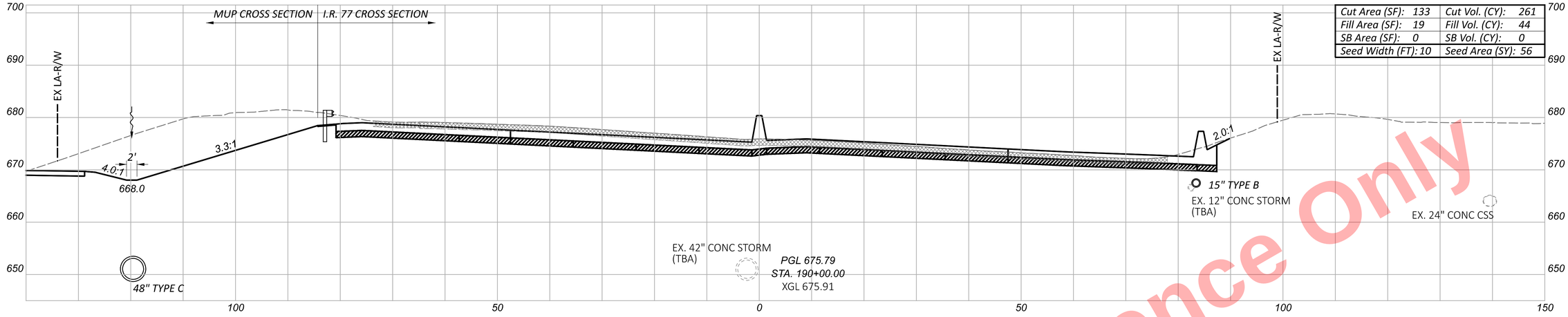
REVIEWER
MTR 04/01/22

PROJECT ID
105743

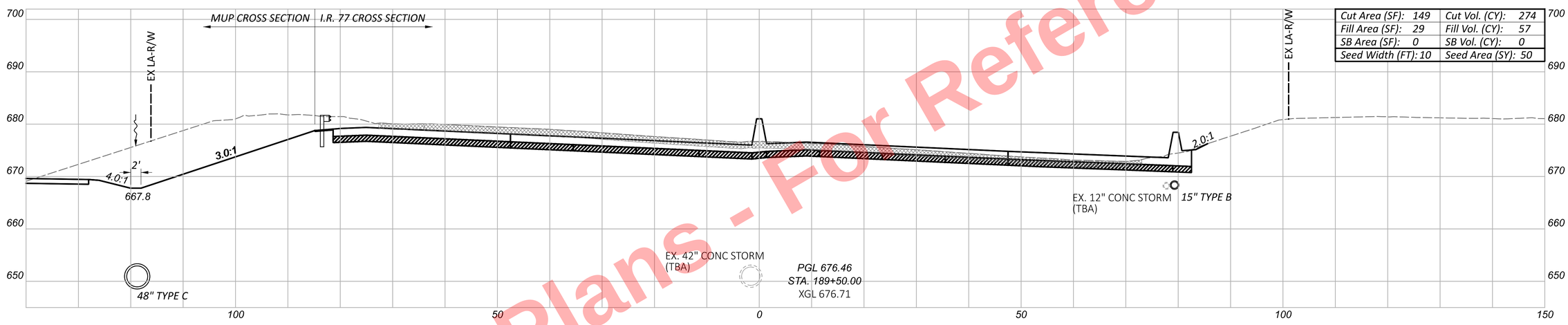
SHEET P.465 | TOTAL P.1269

CUY-77-11.41 - PART 1

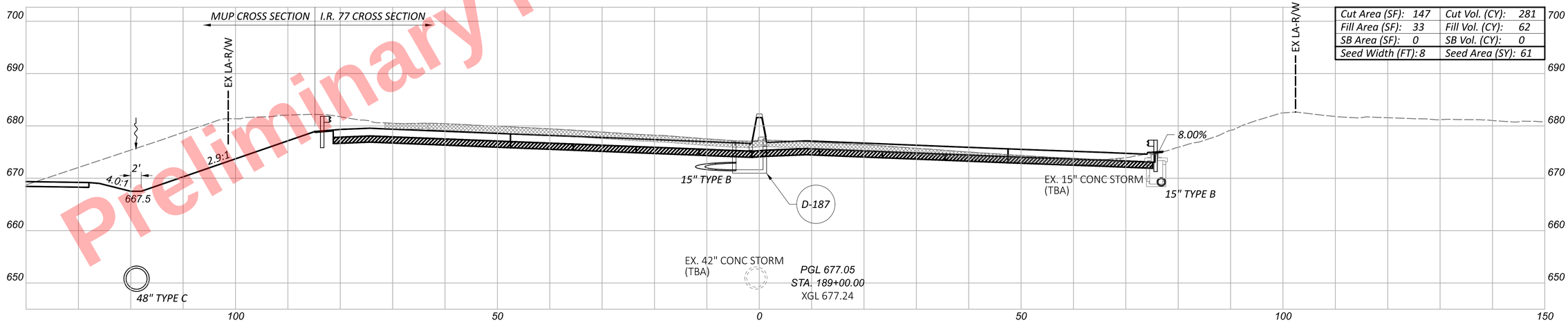
MODEL: CLP_I077 - 187+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:42:06 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn



Cut Area (SF):	133	Cut Vol. (CY):	261
Fill Area (SF):	19	Fill Vol. (CY):	44
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	10	Seed Area (SY):	56



Cut Area (SF):	149	Cut Vol. (CY):	274
Fill Area (SF):	29	Fill Vol. (CY):	57
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	10	Seed Area (SY):	50



Cut Area (SF):	147	Cut Vol. (CY):	281
Fill Area (SF):	33	Fill Vol. (CY):	62
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	8	Seed Area (SY):	61

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 189+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:42:13 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 189+00.00 TO STA. 190+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

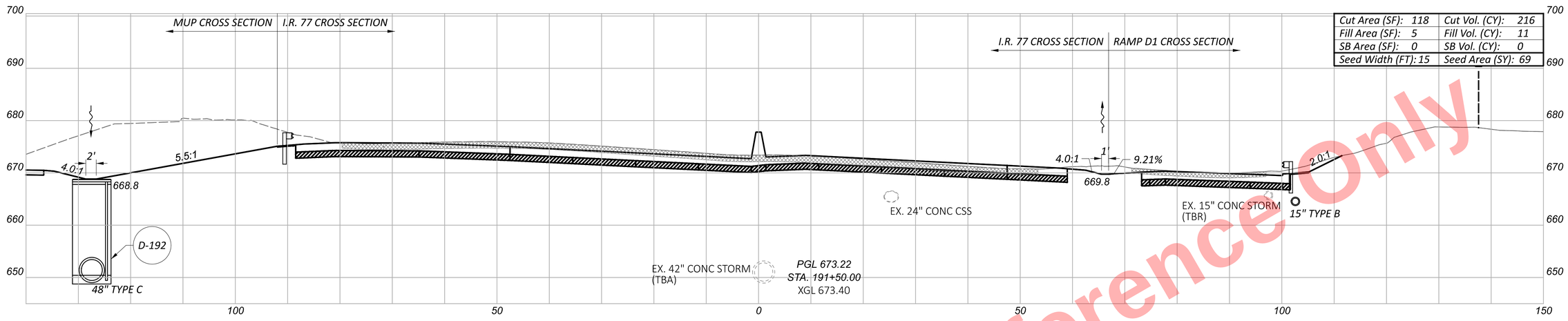
REVIEWER
MTR 04/01/22

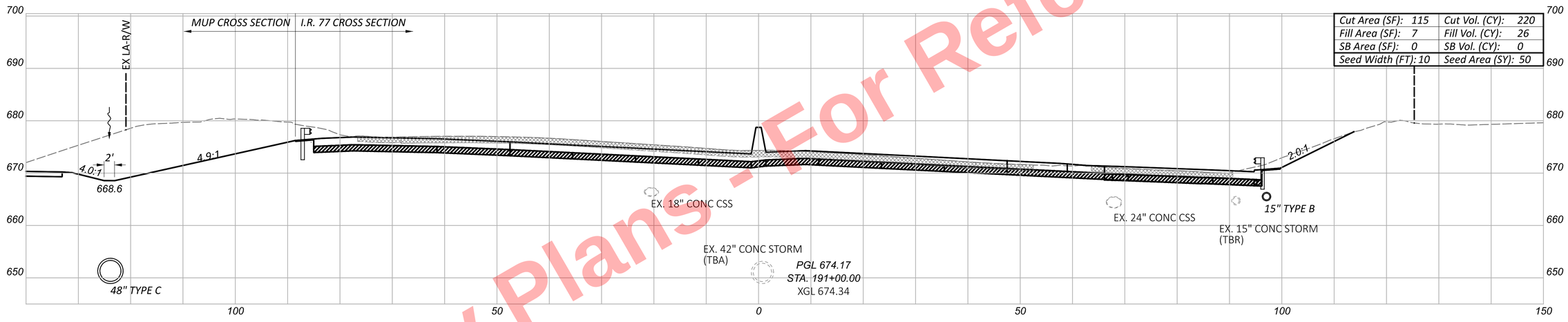
PROJECT ID
105743

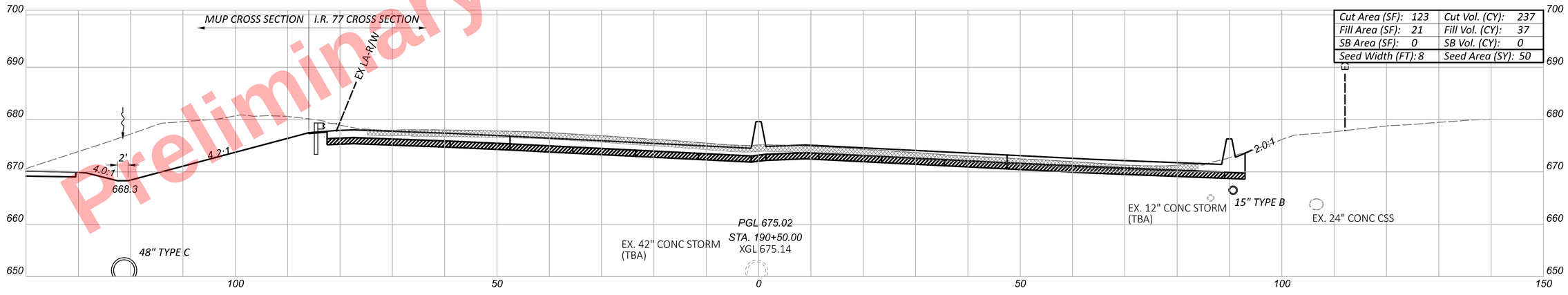
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
167	816	163	0

SHEET P.466 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES







Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 190+50.00 TO STA. 191+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
169	673	74	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

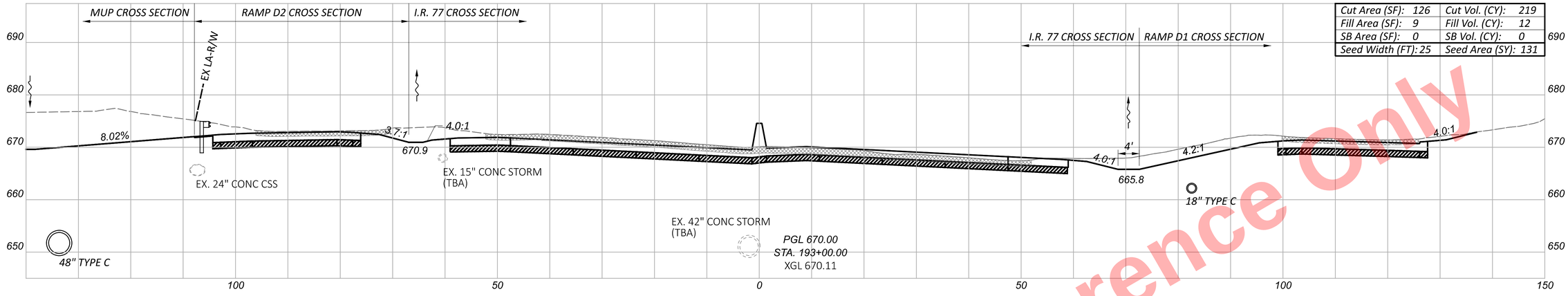
PROJECT ID
105743

SHEET P.467 | TOTAL P.1269

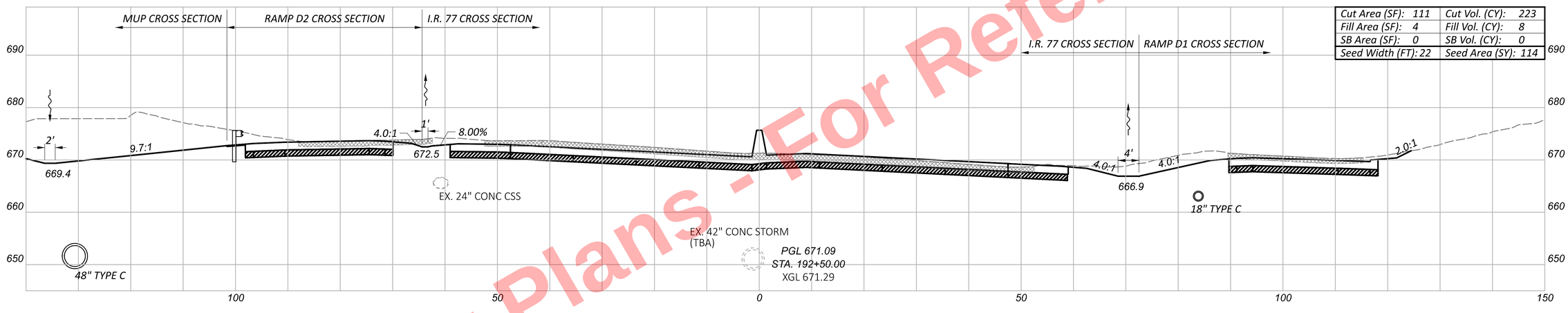
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 190+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:42:20 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

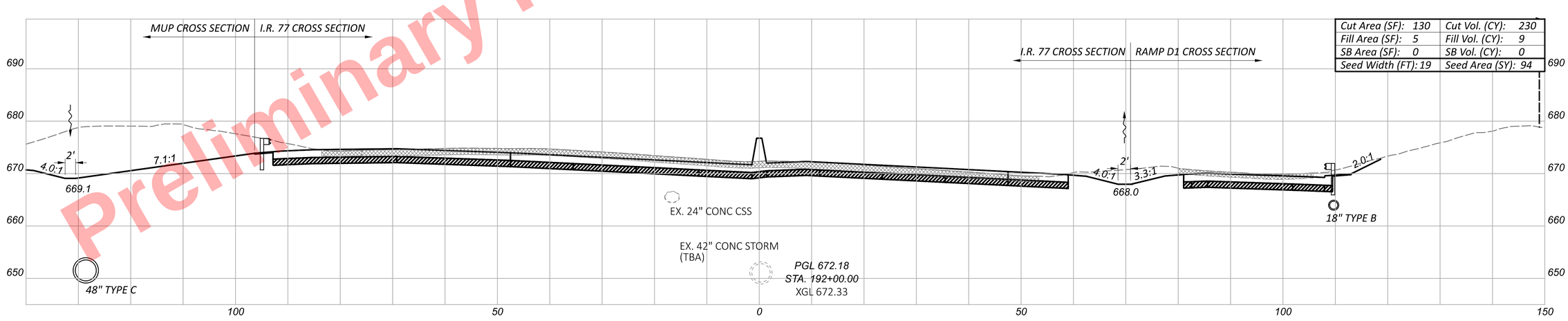
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	126	Cut Vol. (CY):	219
Fill Area (SF):	9	Fill Vol. (CY):	12
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	25	Seed Area (SY):	131



Cut Area (SF):	111	Cut Vol. (CY):	223
Fill Area (SF):	4	Fill Vol. (CY):	8
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	22	Seed Area (SY):	114



Cut Area (SF):	130	Cut Vol. (CY):	230
Fill Area (SF):	5	Fill Vol. (CY):	9
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	19	Seed Area (SY):	94

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 192+00.00 TO STA. 193+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
339	672	29	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

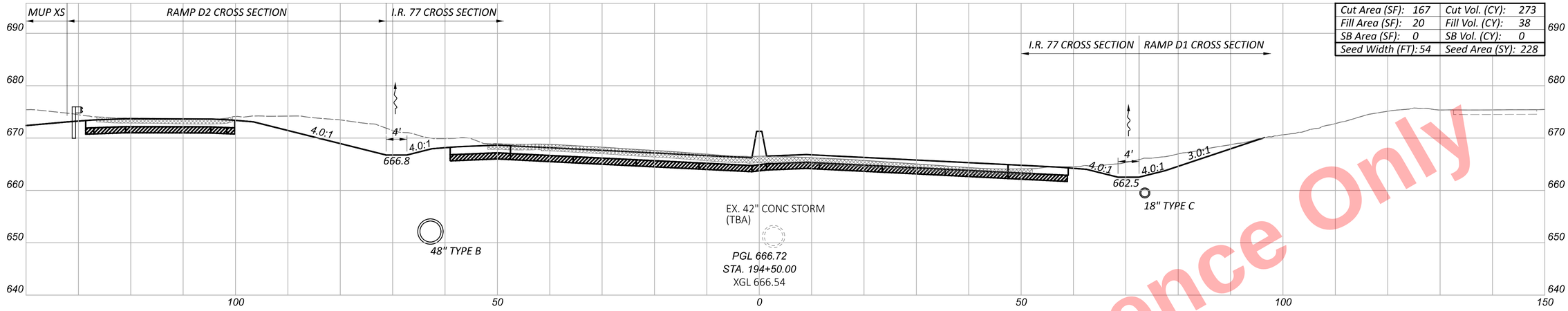
PROJECT ID
105743

SHEET P.468 TOTAL P.1269

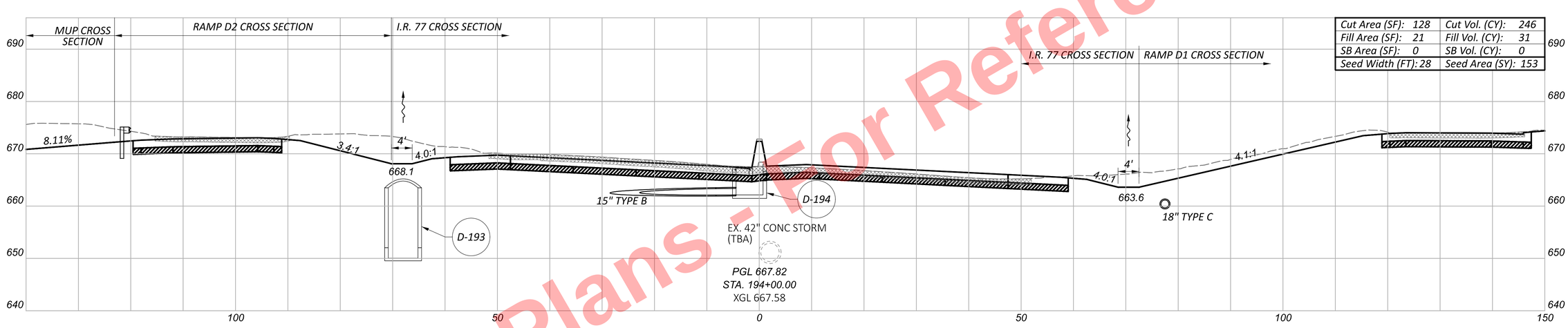
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 192+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:42:27 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

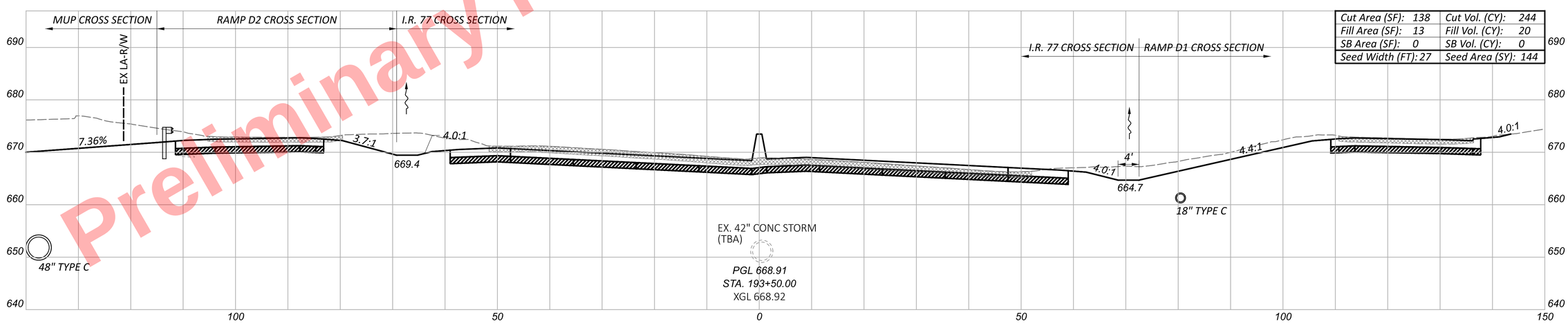
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	167	Cut Vol. (CY):	273
Fill Area (SF):	20	Fill Vol. (CY):	38
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	54	Seed Area (SY):	228



Cut Area (SF):	128	Cut Vol. (CY):	246
Fill Area (SF):	21	Fill Vol. (CY):	31
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	28	Seed Area (SY):	153



Cut Area (SF):	138	Cut Vol. (CY):	244
Fill Area (SF):	13	Fill Vol. (CY):	20
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	27	Seed Area (SY):	144

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 193+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:42:35 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

CROSS SECTIONS - I.R. 77
STA. 193+50.00 TO STA. 194+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

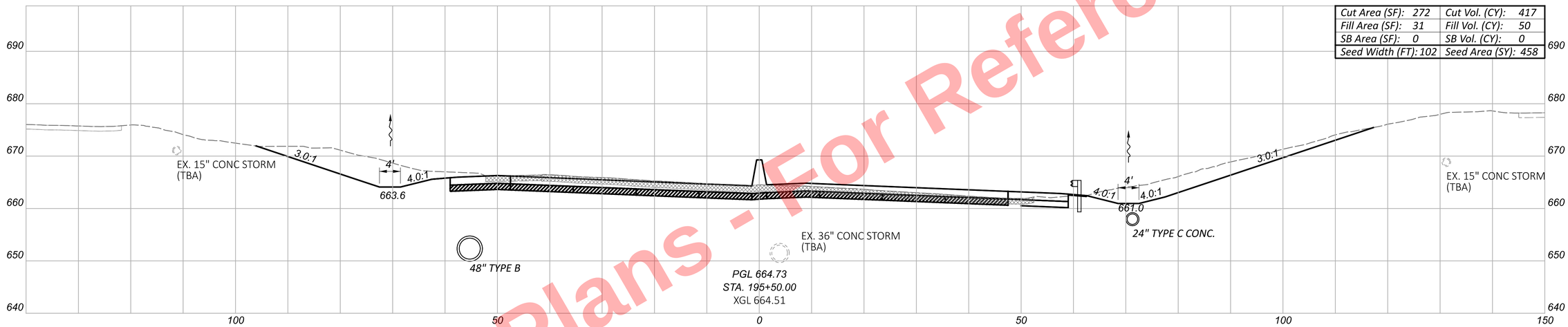
REVIEWER
MTR 04/01/22

PROJECT ID
105743

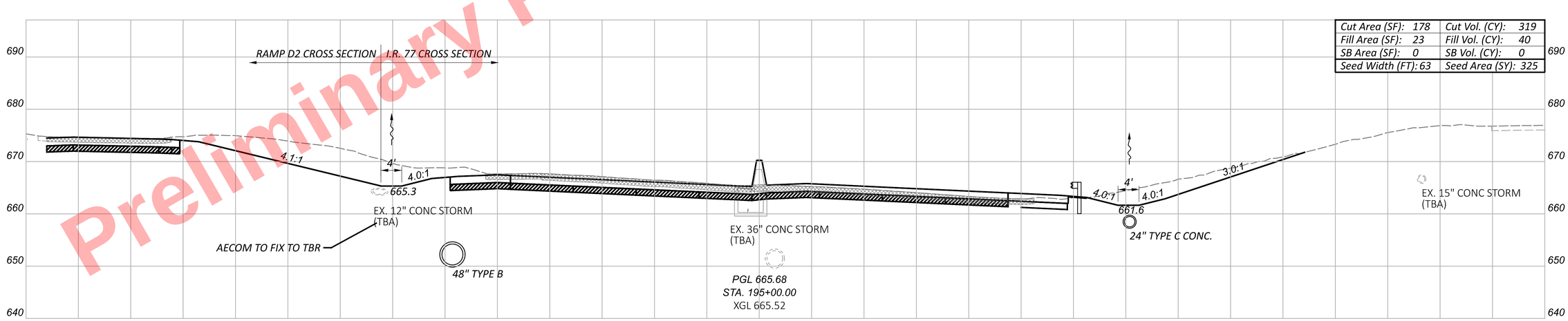
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
525	763	89	0

SHEET	TOTAL
P.469	P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 272	Cut Vol. (CY): 417
Fill Area (SF): 31	Fill Vol. (CY): 50
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 102	Seed Area (SY): 458



Cut Area (SF): 178	Cut Vol. (CY): 319
Fill Area (SF): 23	Fill Vol. (CY): 40
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 63	Seed Area (SY): 325

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 195+00.00 TO STA. 195+50.00

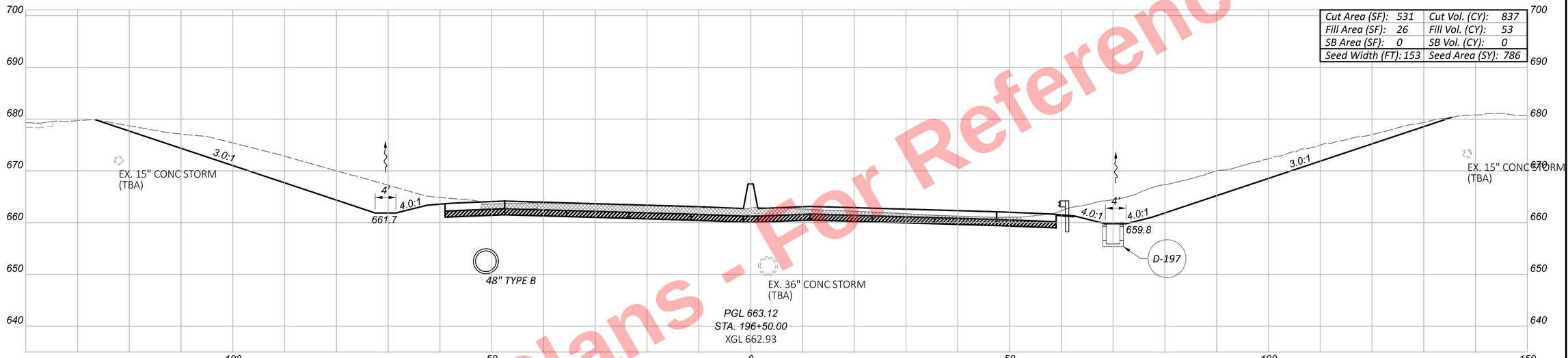
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
783	736	90	0

DESIGN AGENCY: HNTB
DESIGNER: EAP
REVIEWER: MTR 04/01/22
PROJECT ID: 105743
SHEET: P.470 TOTAL: P.1269

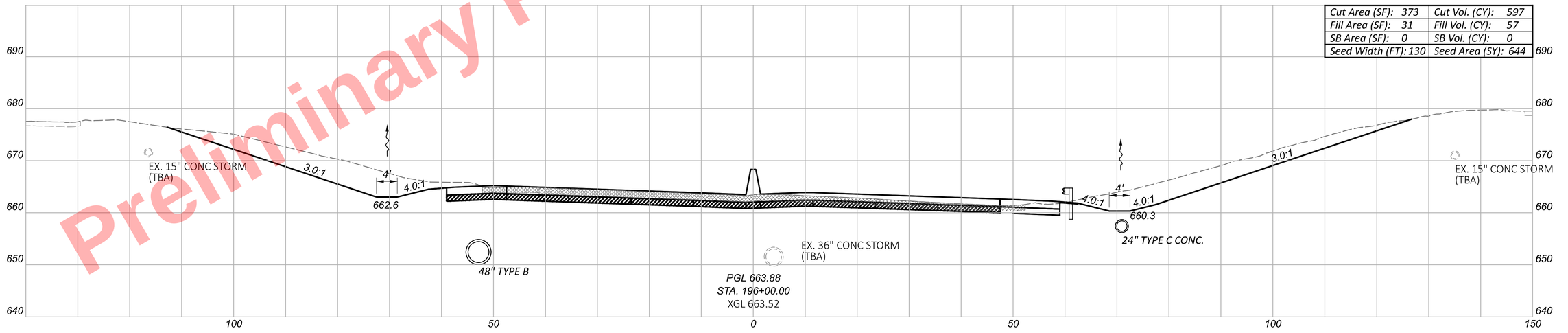
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 195+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:42:42 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	531	Cut Vol. (CY):	837
Fill Area (SF):	26	Fill Vol. (CY):	53
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	153	Seed Area (SY):	786



Cut Area (SF):	373	Cut Vol. (CY):	597
Fill Area (SF):	31	Fill Vol. (CY):	57
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	130	Seed Area (SY):	644

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 196+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:42:47 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 196+00.00 TO STA. 196+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1430	1434	110	0

DESIGN AGENCY
HNTB

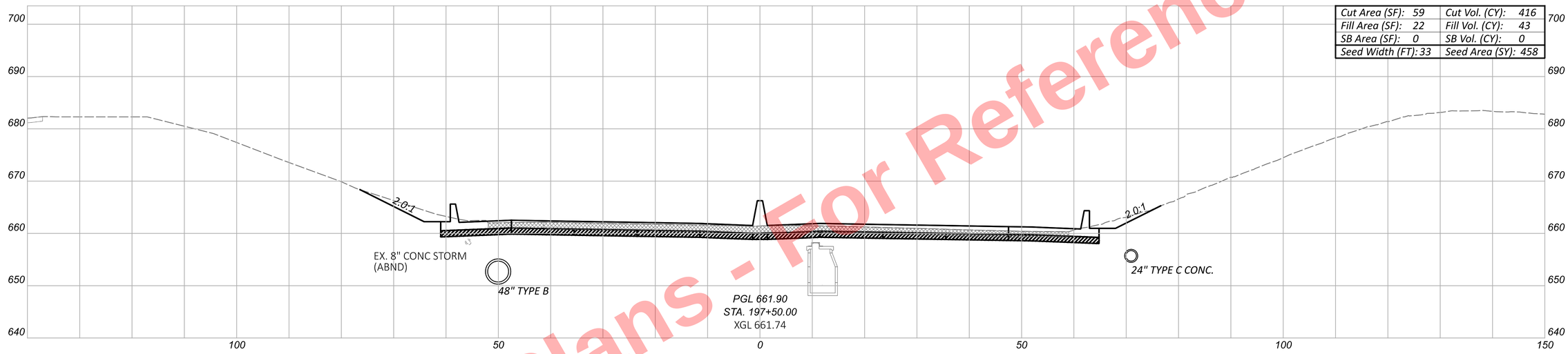
DESIGNER
EAP

REVIEWER
MTR 04/01/22

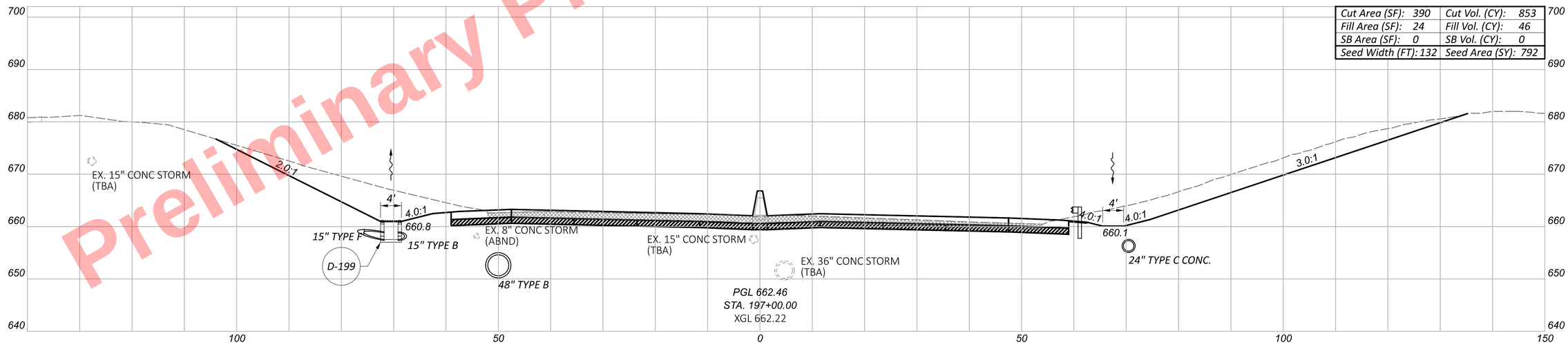
PROJECT ID
105743

SHEET P.471 | TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	59	Cut Vol. (CY):	416
Fill Area (SF):	22	Fill Vol. (CY):	43
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	33	Seed Area (SY):	458



Cut Area (SF):	390	Cut Vol. (CY):	853
Fill Area (SF):	24	Fill Vol. (CY):	46
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	132	Seed Area (SY):	792

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 197+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:42:53 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 197+00.00 TO STA. 197+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

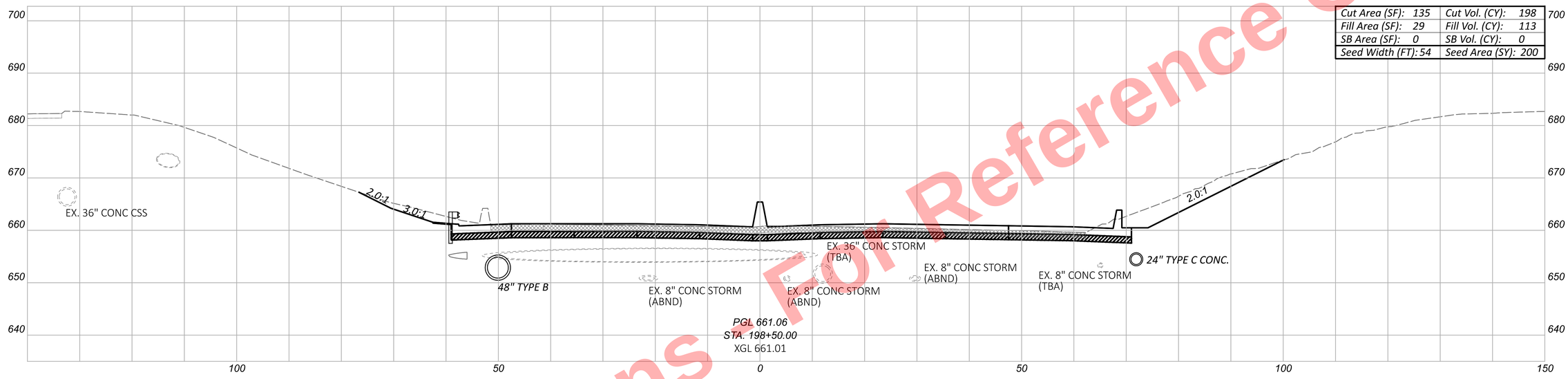
REVIEWER
MTR 04/01/22

PROJECT ID
105743

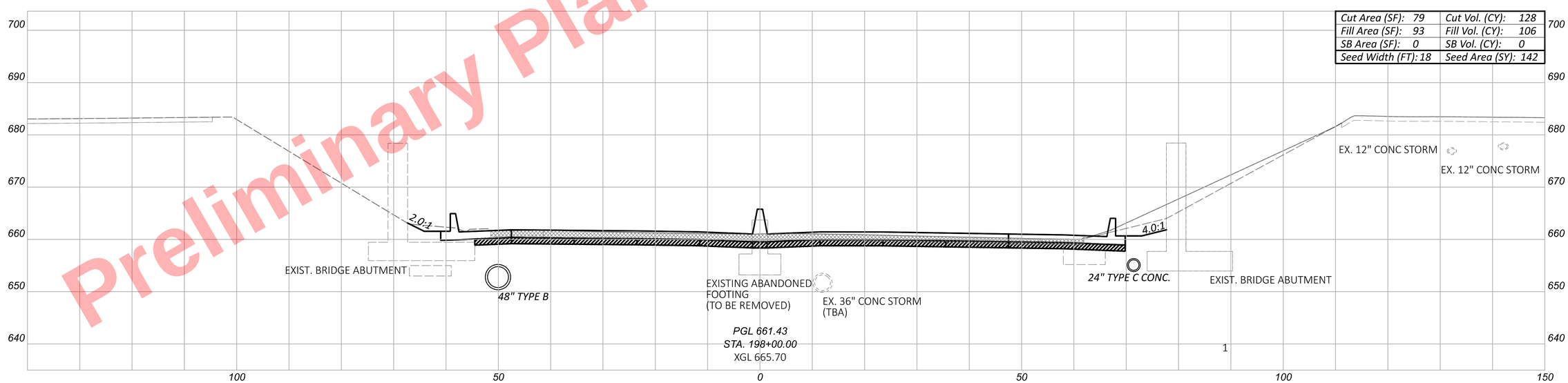
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1250	1269	89	0

SHEET P.472 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	135	Cut Vol. (CY):	198
Fill Area (SF):	29	Fill Vol. (CY):	113
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	54	Seed Area (SY):	200



Cut Area (SF):	79	Cut Vol. (CY):	128
Fill Area (SF):	93	Fill Vol. (CY):	106
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	18	Seed Area (SY):	142

Preliminary Plans For Reference Only

CROSS SECTIONS - I.R. 77
STA. 198+00.00 TO STA. 198+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
342	326	219	0

DESIGN AGENCY: HNTB
DESIGNER: EAP
REVIEWER: MTR 04/01/22
PROJECT ID: 105743
SHEET: P.473 TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 198+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:42:58 AM USER: kperkins
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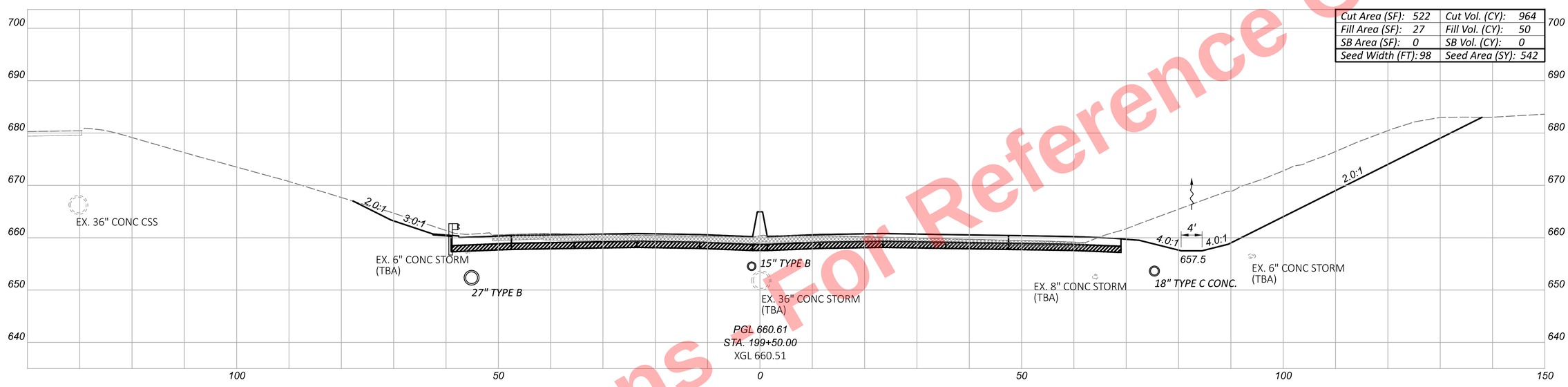
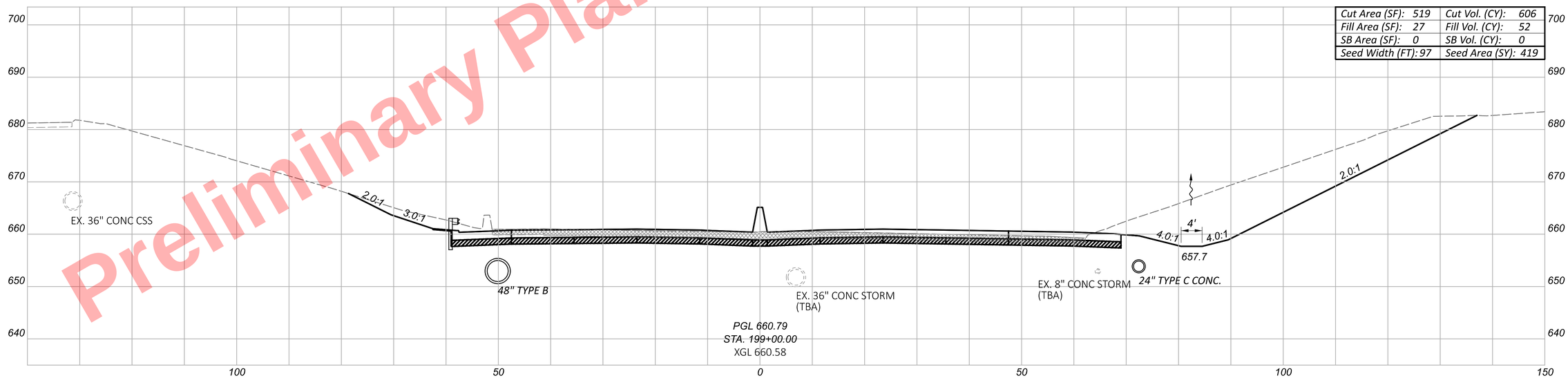
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	522	Cut Vol. (CY):	964
Fill Area (SF):	27	Fill Vol. (CY):	50
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	98	Seed Area (SY):	542



Cut Area (SF):	519	Cut Vol. (CY):	606
Fill Area (SF):	27	Fill Vol. (CY):	52
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	97	Seed Area (SY):	419

Preliminary Plans For Reference Only

CROSS SECTIONS - I.R. 77
STA. 199+00.00 TO STA. 199+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
961	1570	102	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

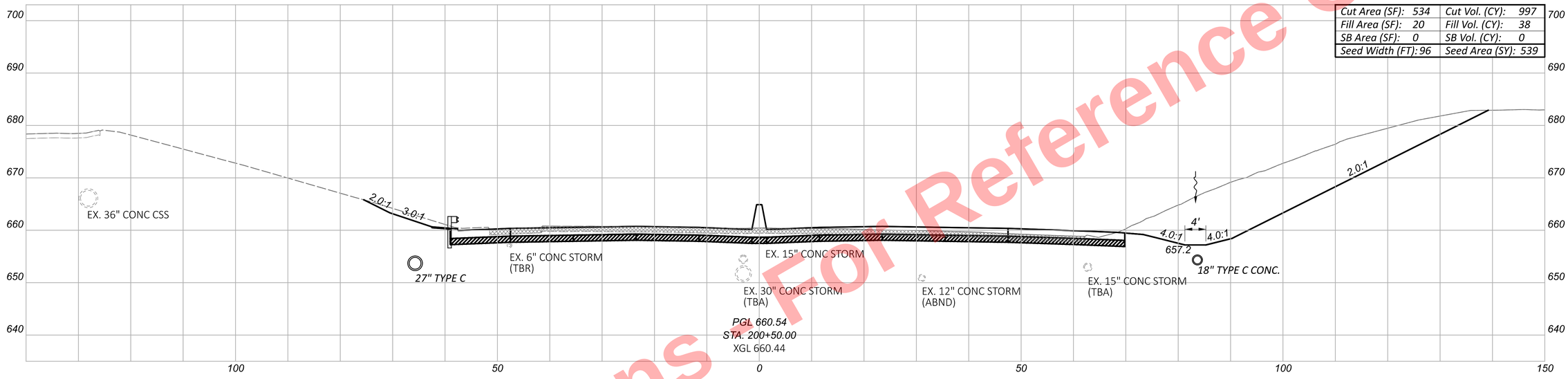
PROJECT ID
105743

SHEET P.474 TOTAL P.1269

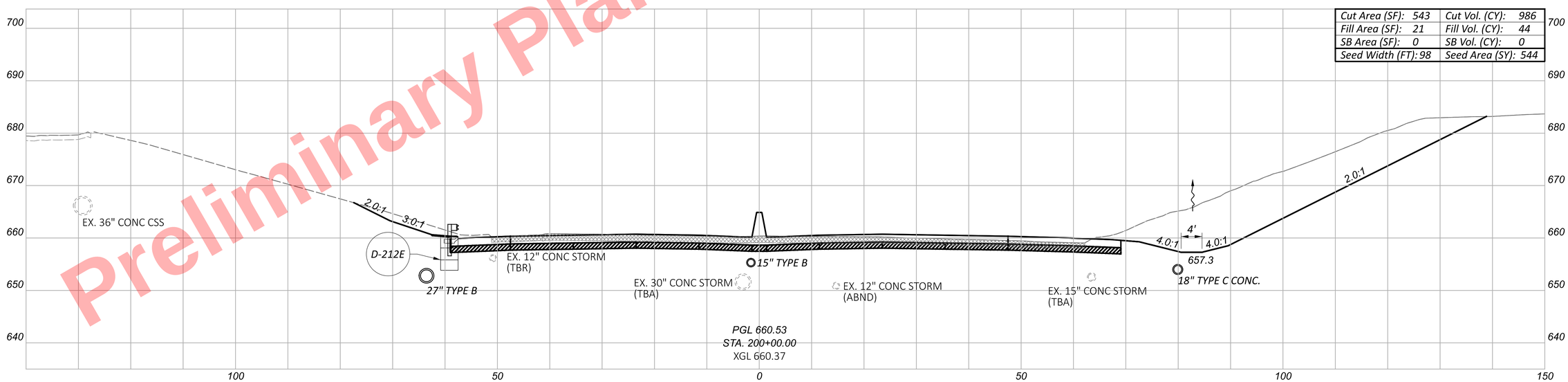
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 199+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:03 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	534	Cut Vol. (CY):	997
Fill Area (SF):	20	Fill Vol. (CY):	38
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	96	Seed Area (SY):	539



Cut Area (SF):	543	Cut Vol. (CY):	986
Fill Area (SF):	21	Fill Vol. (CY):	44
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	98	Seed Area (SY):	544

Preliminary Plans For Reference Only

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1083	1983	82	0

CUY-77-11.41 - PART 1

CROSS SECTIONS - I.R. 77
STA. 200+00.00 TO STA. 200+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.475 TOTAL P.1269

MODEL: CLP_I077 - 200+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:08 AM USER: kperkins
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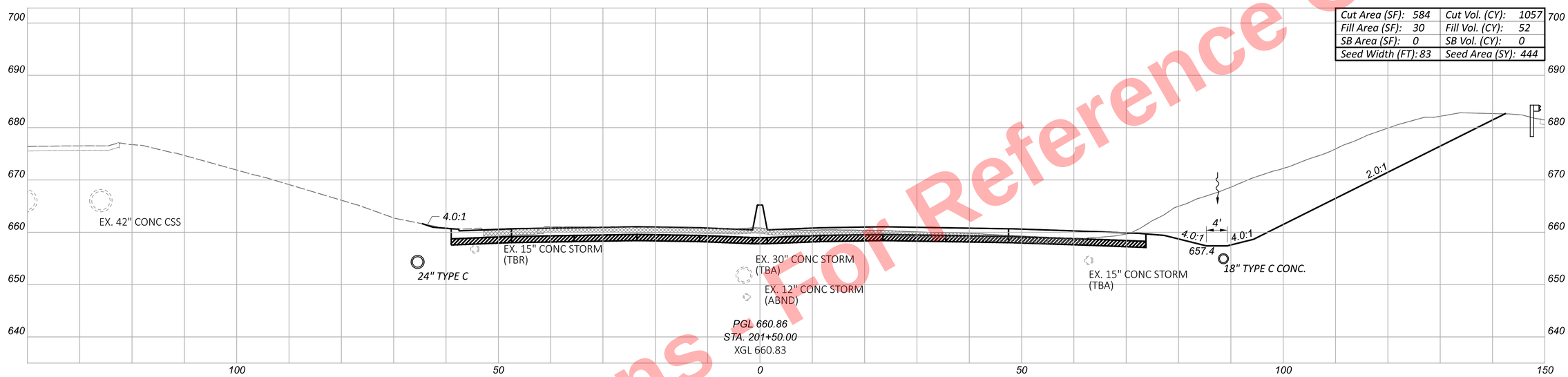
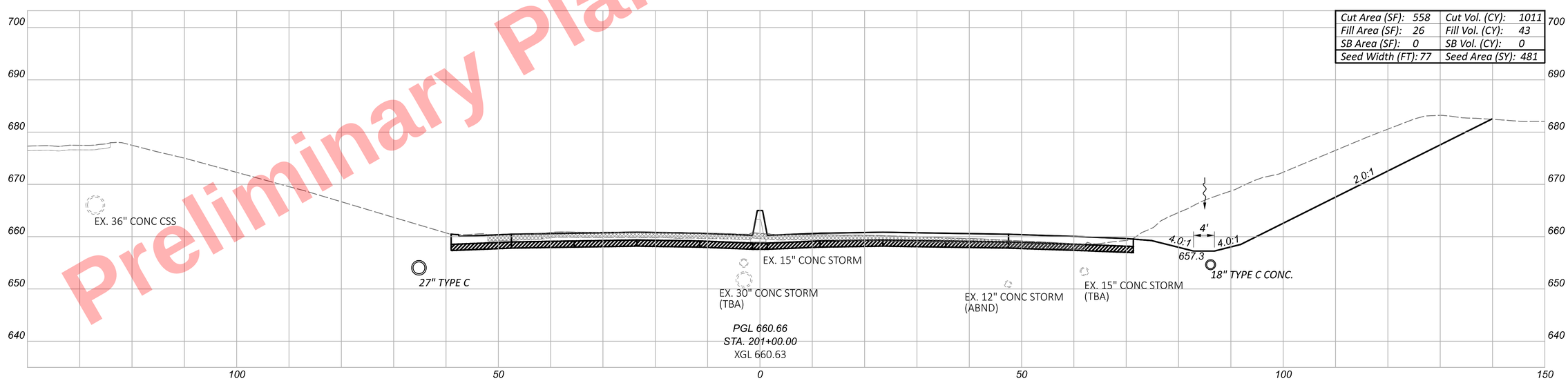
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	584	Cut Vol. (CY):	1057
Fill Area (SF):	30	Fill Vol. (CY):	52
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	83	Seed Area (SY):	444



Cut Area (SF):	558	Cut Vol. (CY):	1011
Fill Area (SF):	26	Fill Vol. (CY):	43
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	77	Seed Area (SY):	481

For Reference Only
Preliminary Plans

CROSS SECTIONS - I.R. 77
STA. 201+00.00 TO STA. 201+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

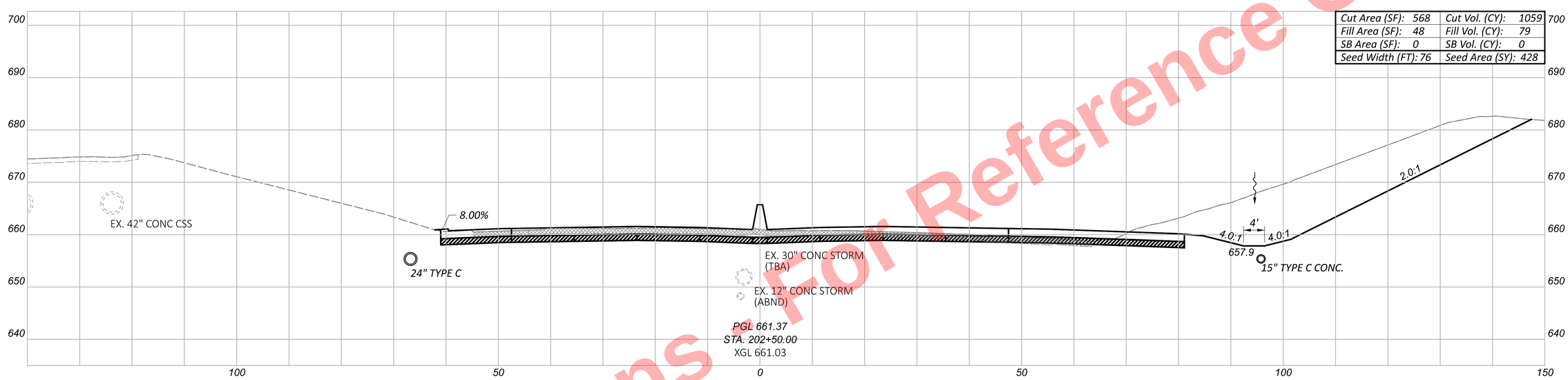
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
925	2068	95	0

SHEET P.476 TOTAL P.1269

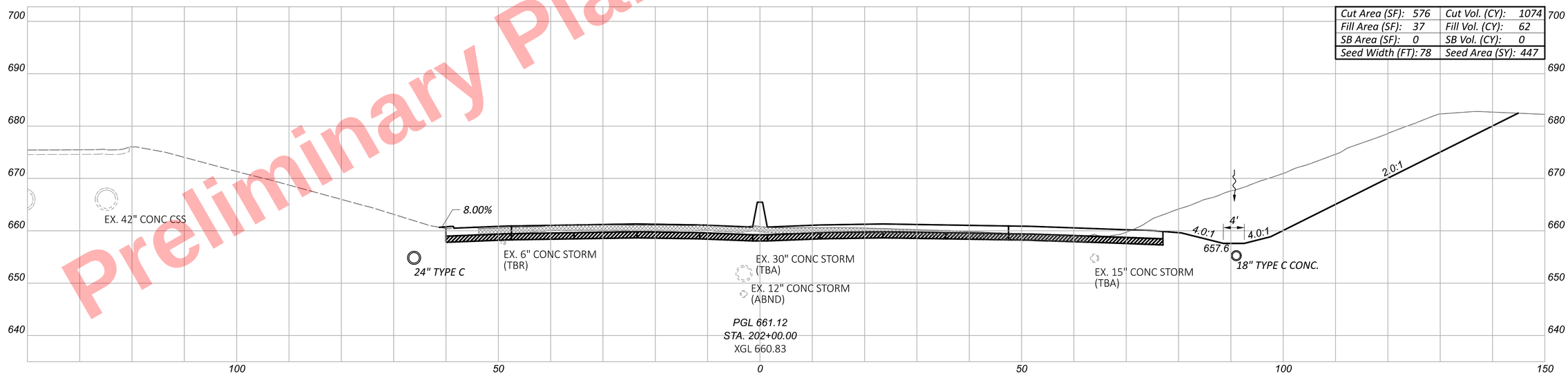
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 201+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:13 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	568	Cut Vol. (CY):	1059
Fill Area (SF):	48	Fill Vol. (CY):	79
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	76	Seed Area (SY):	428



Cut Area (SF):	576	Cut Vol. (CY):	1074
Fill Area (SF):	37	Fill Vol. (CY):	62
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	78	Seed Area (SY):	447

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 202+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:19 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 202+00.00 TO STA. 202+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
875	2133	141	0

DESIGN AGENCY
HNTB

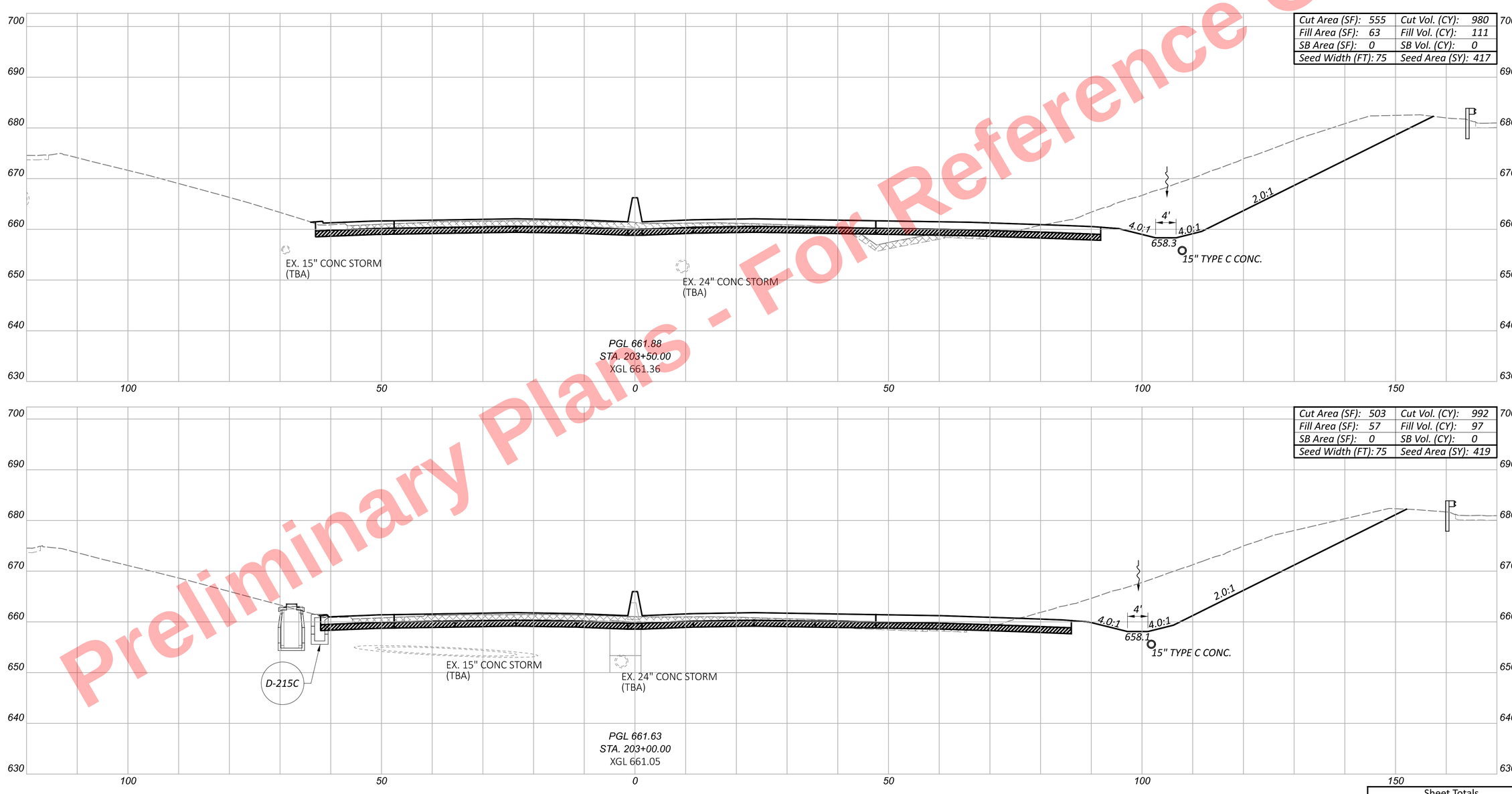
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.477 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	555	Cut Vol. (CY):	980
Fill Area (SF):	63	Fill Vol. (CY):	111
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	75	Seed Area (SY):	417

Cut Area (SF):	503	Cut Vol. (CY):	992
Fill Area (SF):	57	Fill Vol. (CY):	97
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	75	Seed Area (SY):	419

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
836	1972	208	0

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

CROSS SECTIONS - I.R. 77
STA. 203+00.00 TO STA. 203+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.478 TOTAL P.1269

MODEL: CLP_I077 - 203+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:24 AM USER: kperkins
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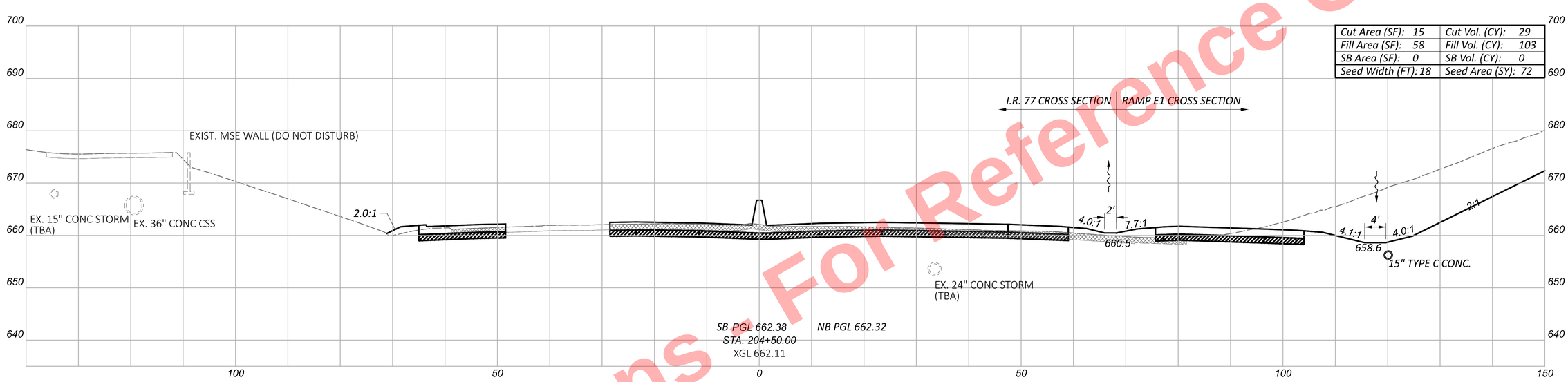
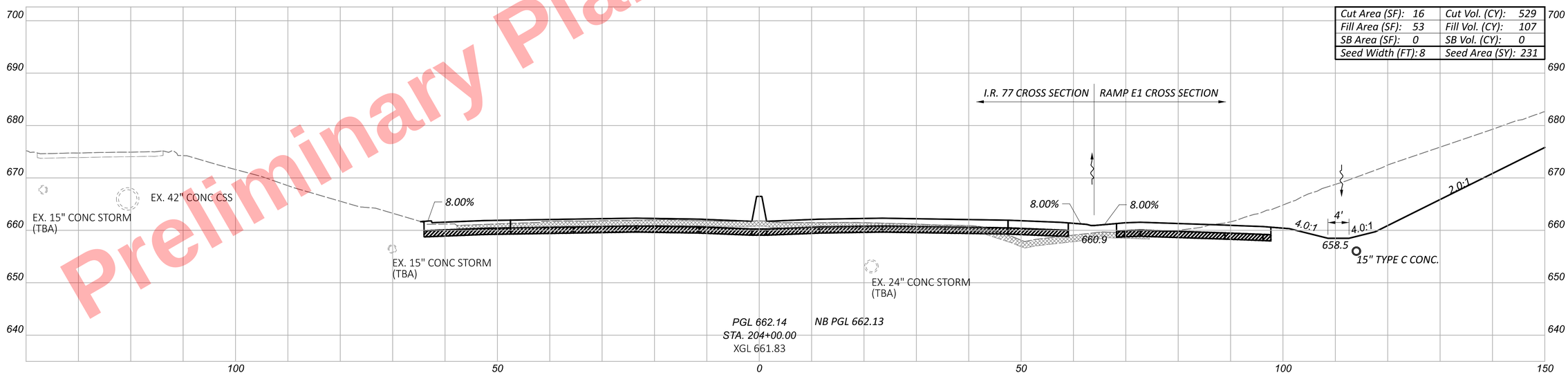
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	15	Cut Vol. (CY):	29
Fill Area (SF):	58	Fill Vol. (CY):	103
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	18	Seed Area (SY):	72



Cut Area (SF):	16	Cut Vol. (CY):	529
Fill Area (SF):	53	Fill Vol. (CY):	107
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	8	Seed Area (SY):	231

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 204+00.00 TO STA. 204+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
303	558	210	0

SHEET P.479 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 204+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:26 AM USER: kperkins
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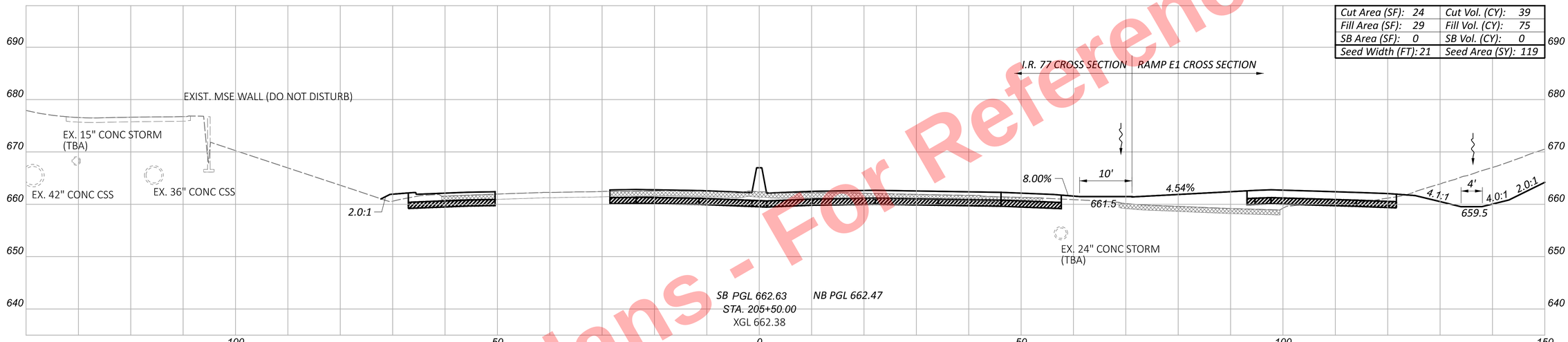
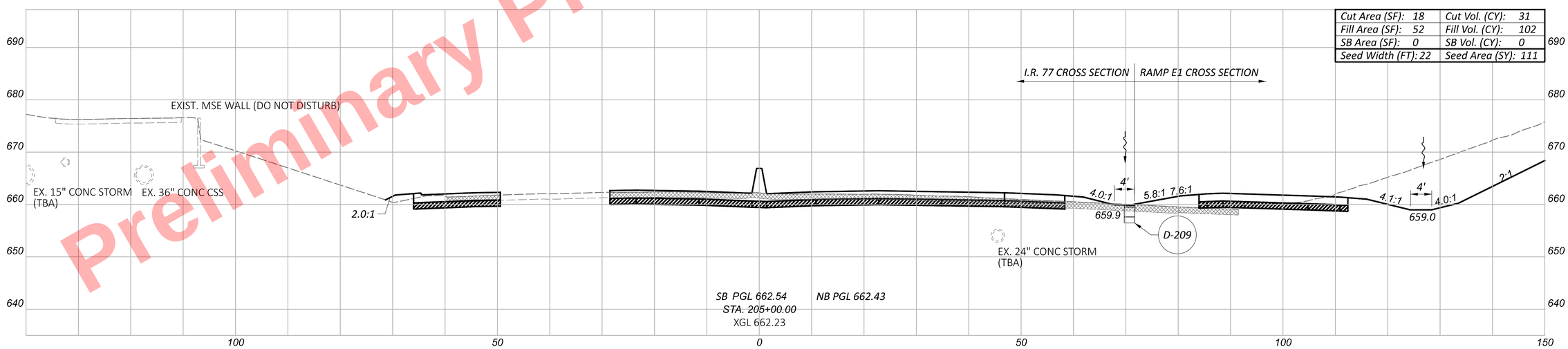
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 24	Cut Vol. (CY): 39
Fill Area (SF): 29	Fill Vol. (CY): 75
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 21	Seed Area (SY): 119



Cut Area (SF): 18	Cut Vol. (CY): 31
Fill Area (SF): 52	Fill Vol. (CY): 102
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 22	Seed Area (SY): 111

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 205+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:31 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 205+00.00 TO STA. 205+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
230	70	177	0

DESIGN AGENCY
HNTB

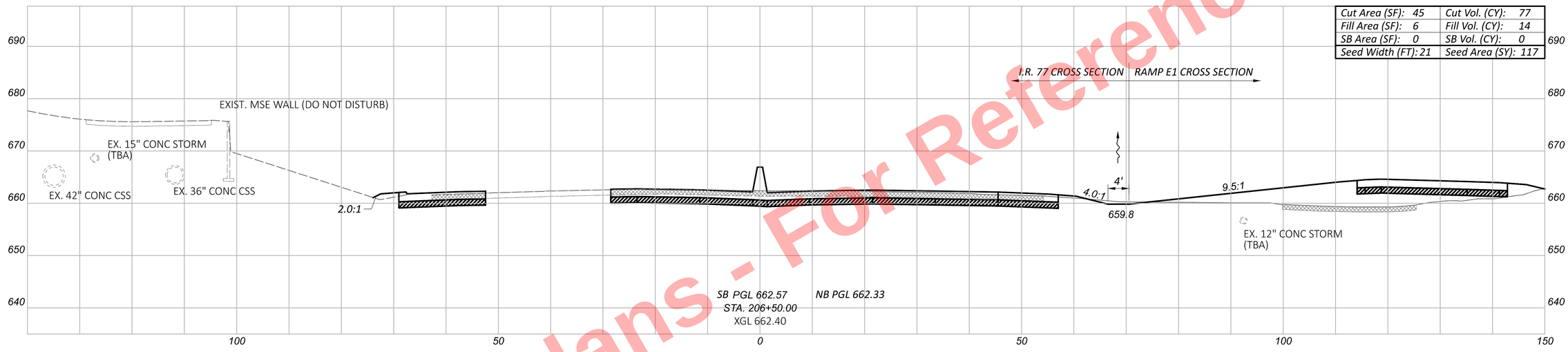
DESIGNER
EAP

REVIEWER
MTR 04/01/22

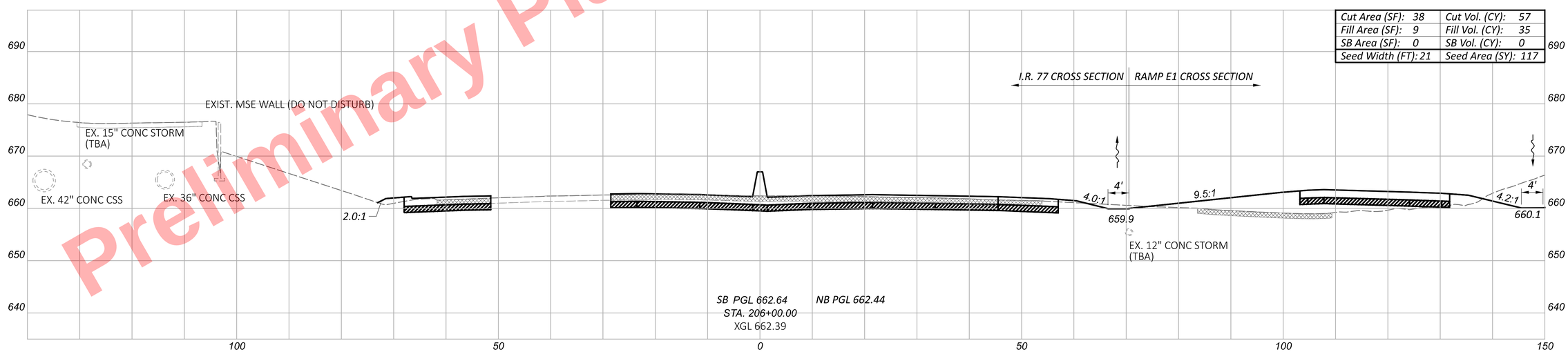
PROJECT ID
105743

SHEET P.480 | TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	45	Cut Vol. (CY):	77
Fill Area (SF):	6	Fill Vol. (CY):	14
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	21	Seed Area (SY):	117



Cut Area (SF):	38	Cut Vol. (CY):	57
Fill Area (SF):	9	Fill Vol. (CY):	35
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	21	Seed Area (SY):	117

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 206+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:37 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 206+00.00 TO STA. 206+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
234	134	49	0

DESIGN AGENCY
HNTB

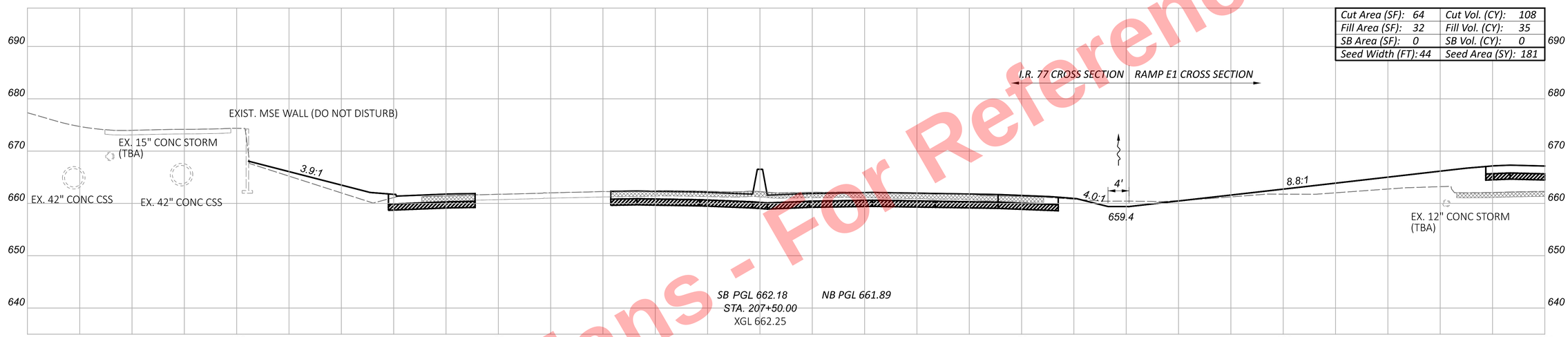
DESIGNER
EAP

REVIEWER
MTR 04/01/22

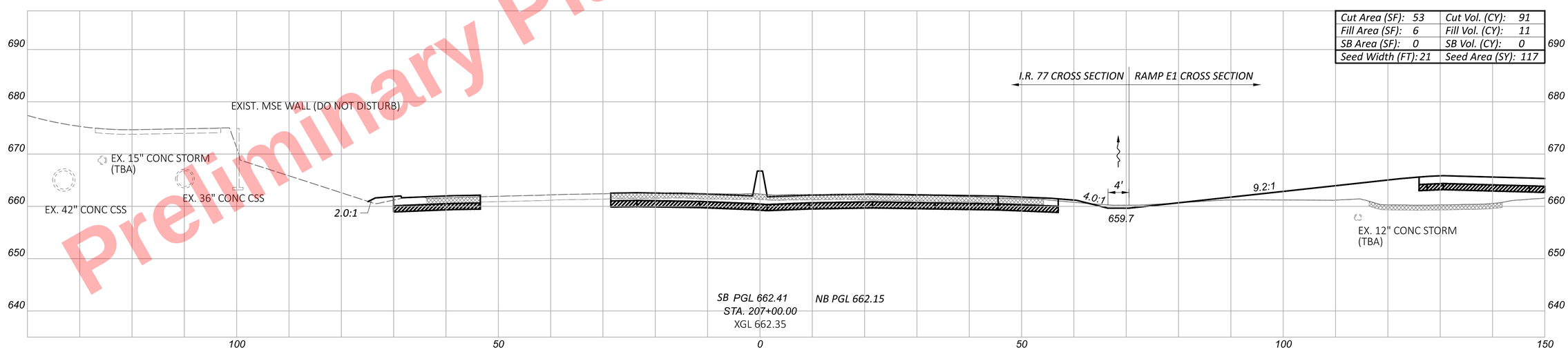
PROJECT ID
105743

SHEET P.481 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	64	Cut Vol. (CY):	108
Fill Area (SF):	32	Fill Vol. (CY):	35
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	44	Seed Area (SY):	181



Cut Area (SF):	53	Cut Vol. (CY):	91
Fill Area (SF):	6	Fill Vol. (CY):	11
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	21	Seed Area (SY):	117

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 207+00.00 TO STA. 207+50.00

DESIGN AGENCY
HNTB

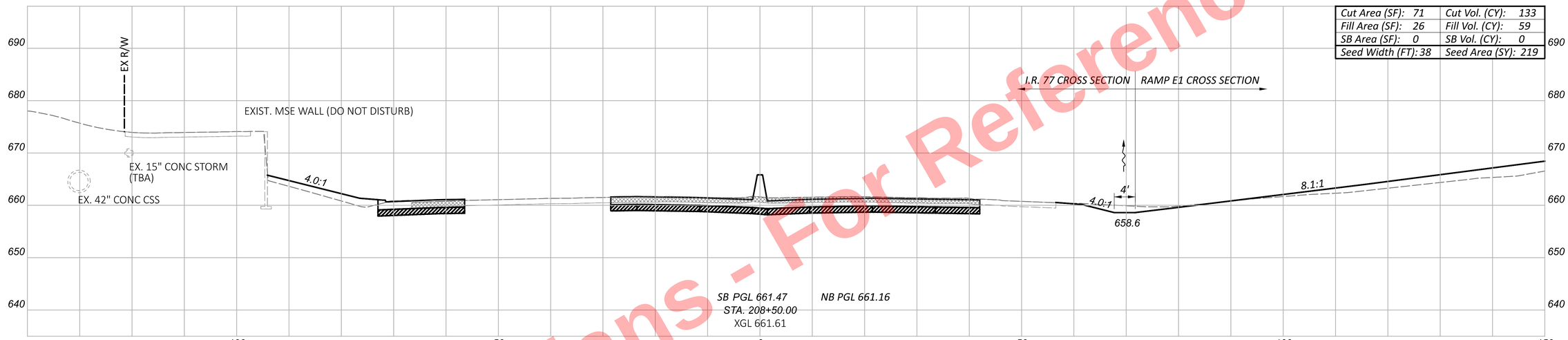
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
298	199	46	0

DESIGNER EAP
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.482 TOTAL P.1269

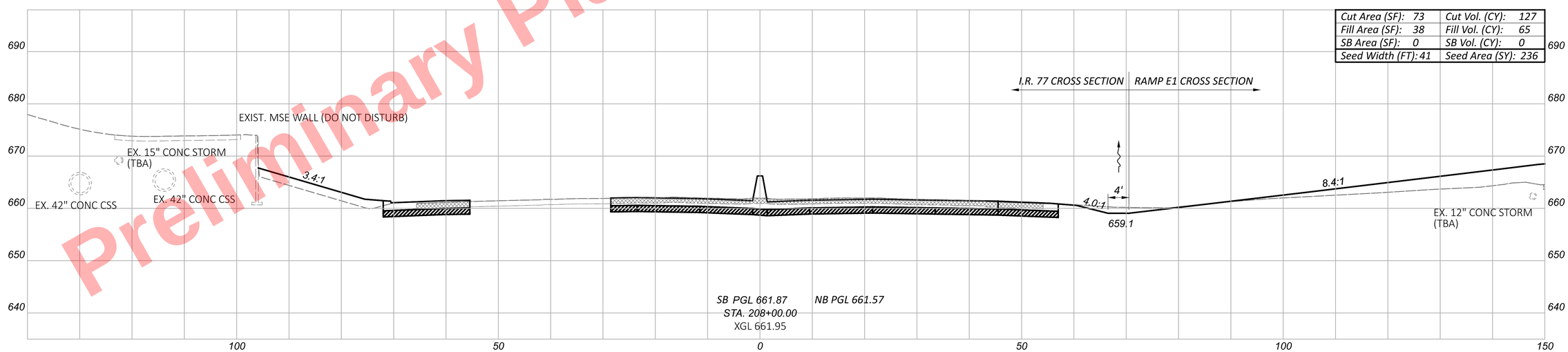
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 207+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:42 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	71	Cut Vol. (CY):	133
Fill Area (SF):	26	Fill Vol. (CY):	59
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	38	Seed Area (SY):	219



Cut Area (SF):	73	Cut Vol. (CY):	127
Fill Area (SF):	38	Fill Vol. (CY):	65
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	41	Seed Area (SY):	236

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 208+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:47 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

CROSS SECTIONS - I.R. 77
STA. 208+00.00 TO STA. 208+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
455	260	124	0

DESIGN AGENCY
HNTB

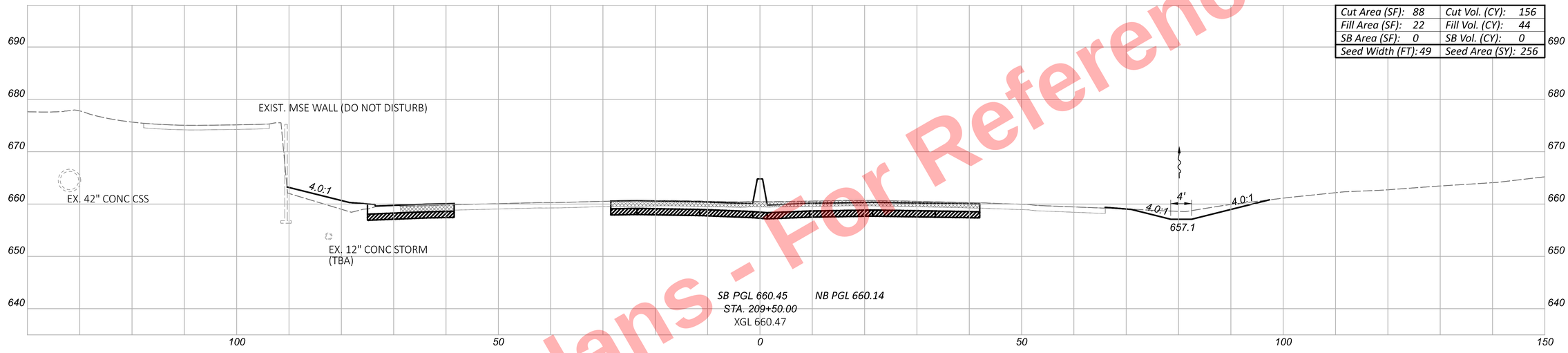
DESIGNER
EAP

REVIEWER
MTR 04/01/22

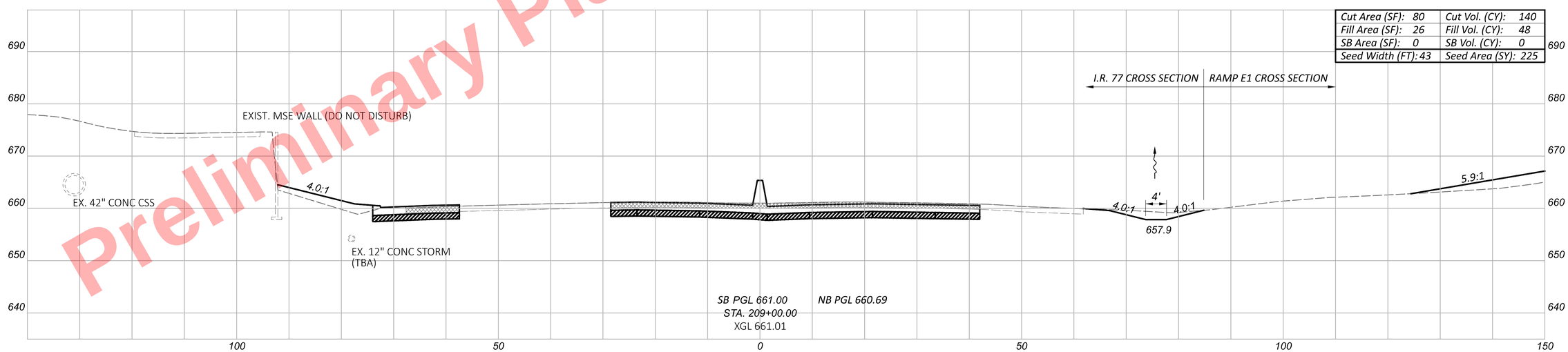
PROJECT ID
105743

SHEET P.483 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 88	Cut Vol. (CY): 156
Fill Area (SF): 22	Fill Vol. (CY): 44
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 49	Seed Area (SY): 256



Cut Area (SF): 80	Cut Vol. (CY): 140
Fill Area (SF): 26	Fill Vol. (CY): 48
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 43	Seed Area (SY): 225

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 209+00.00 TO STA. 209+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
481	296	92	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

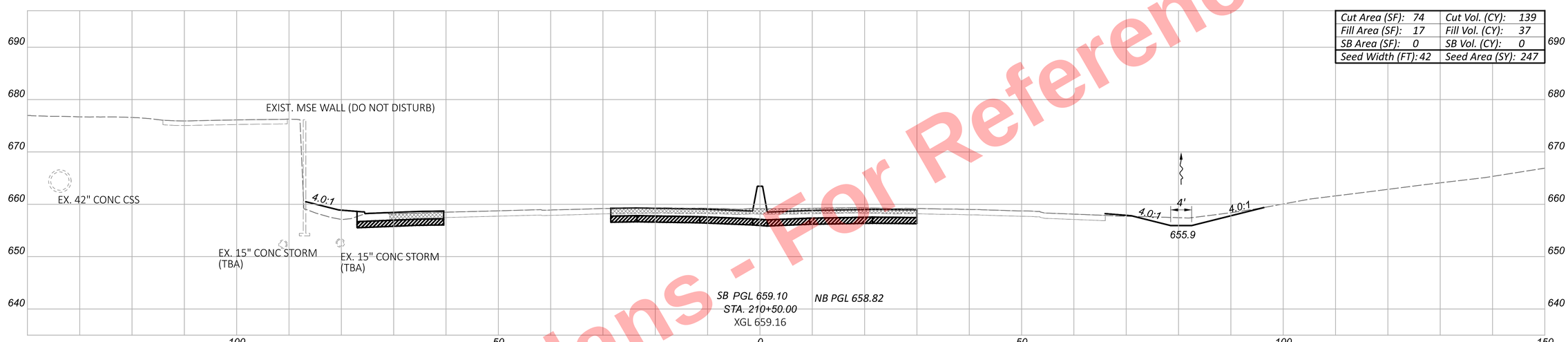
PROJECT ID
105743

SHEET P.484 TOTAL P.1269

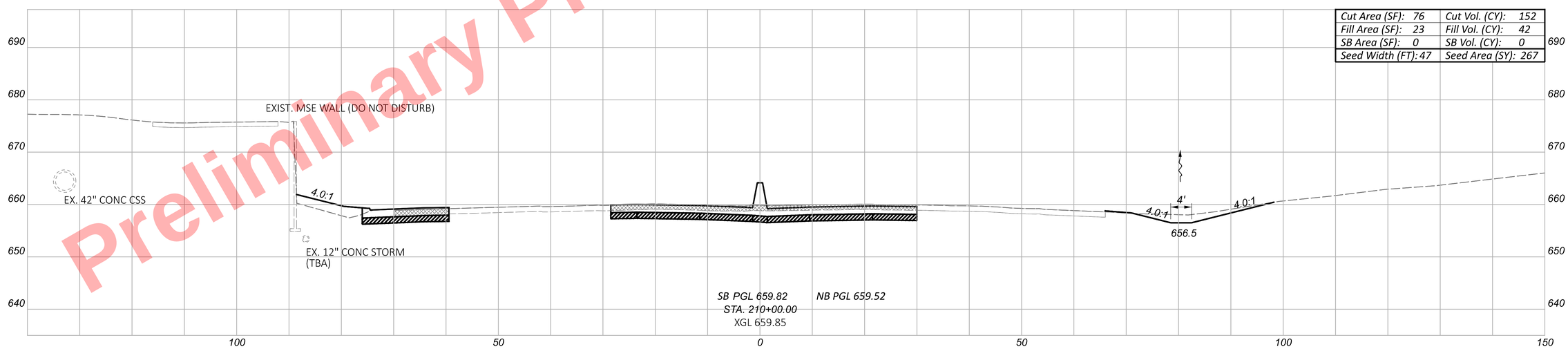
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 209+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:52 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 74	Cut Vol. (CY): 139
Fill Area (SF): 17	Fill Vol. (CY): 37
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 42	Seed Area (SY): 247



Cut Area (SF): 76	Cut Vol. (CY): 152
Fill Area (SF): 23	Fill Vol. (CY): 42
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 47	Seed Area (SY): 267

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 210+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:43:57 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 210+00.00 TO STA. 210+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
514	291	79	0

DESIGN AGENCY
HNTB

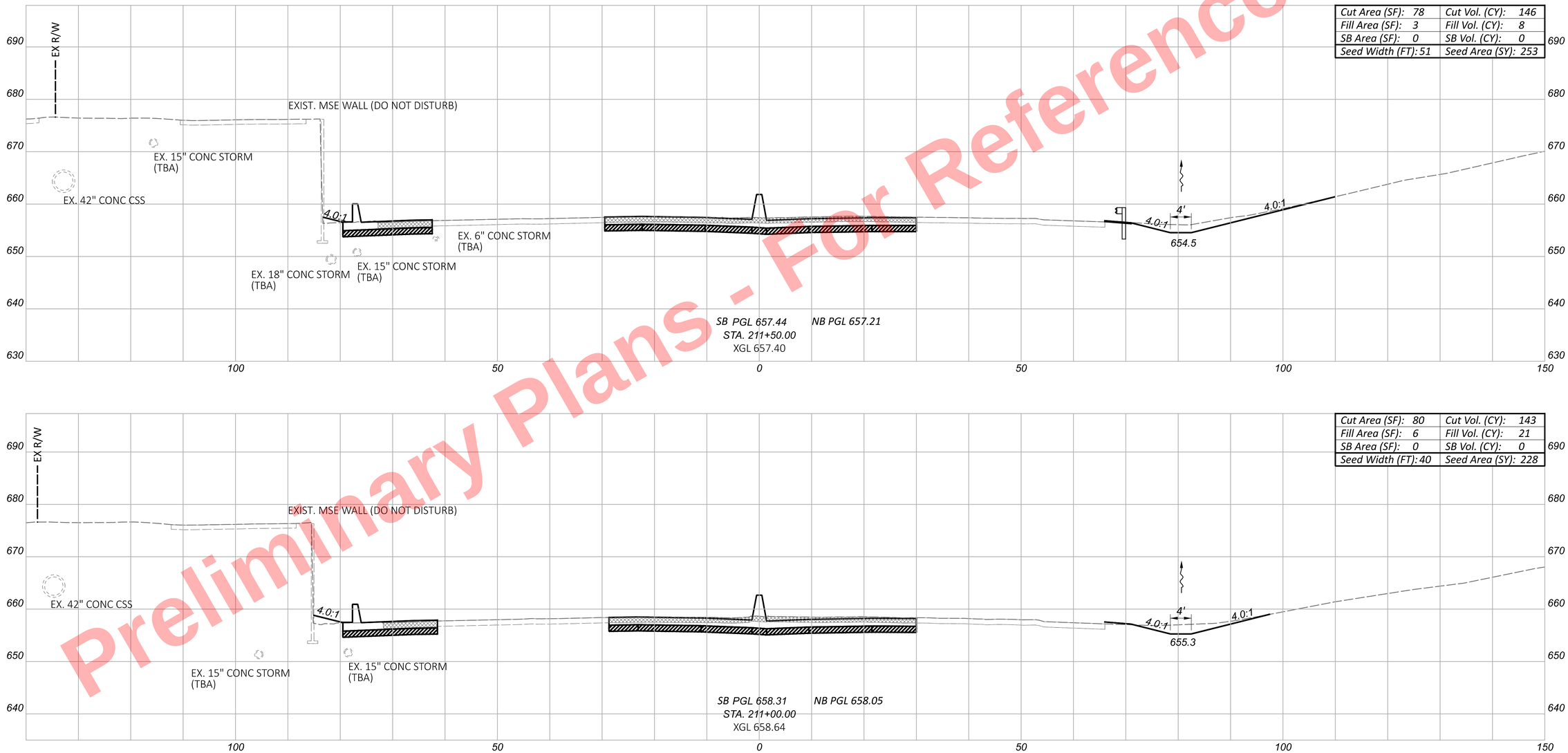
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.485 | TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 78	Cut Vol. (CY): 146
Fill Area (SF): 3	Fill Vol. (CY): 8
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 51	Seed Area (SY): 253

Cut Area (SF): 80	Cut Vol. (CY): 143
Fill Area (SF): 6	Fill Vol. (CY): 21
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 40	Seed Area (SY): 228

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 211+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:03 AM USER: kperkins
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CROSS SECTIONS - I.R. 77
STA. 211+00.00 TO STA. 211+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
481	289	29	0

DESIGN AGENCY
HNTB

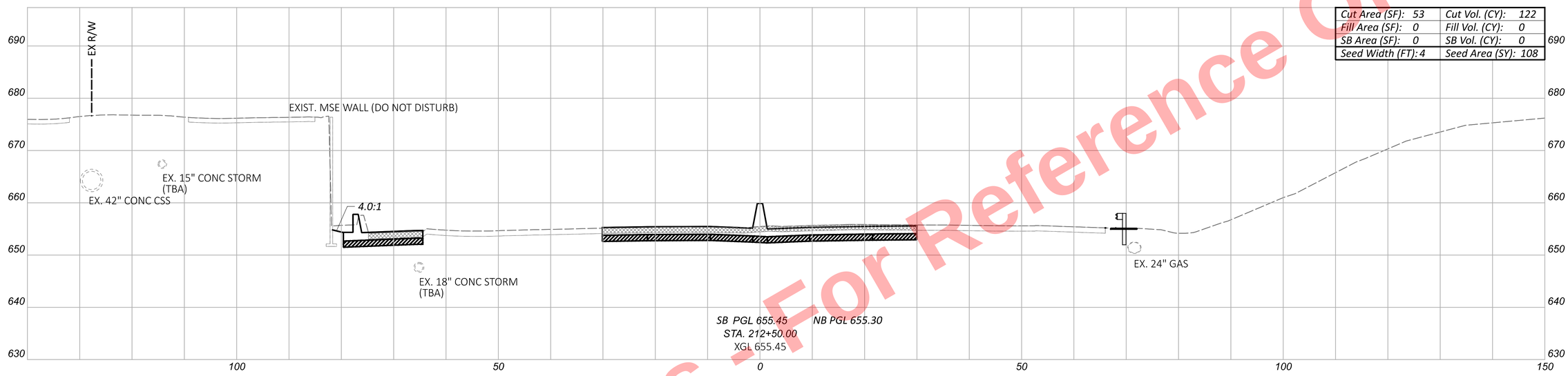
DESIGNER
EAP

REVIEWER
MTR 04/01/22

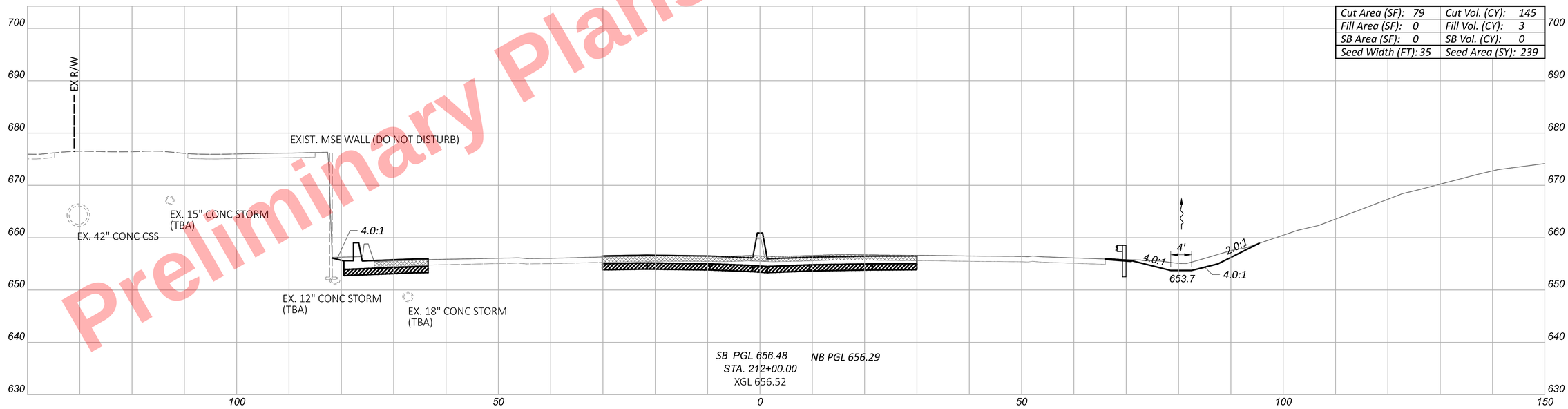
PROJECT ID
105743

SHEET P.486 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	53	Cut Vol. (CY):	122
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	4	Seed Area (SY):	108



Cut Area (SF):	79	Cut Vol. (CY):	145
Fill Area (SF):	0	Fill Vol. (CY):	3
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	35	Seed Area (SY):	239

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 212+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:08 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

CROSS SECTIONS - I.R. 77
STA. 212+00.00 TO STA. 212+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
347	267	3	0

DESIGN AGENCY
HNTB

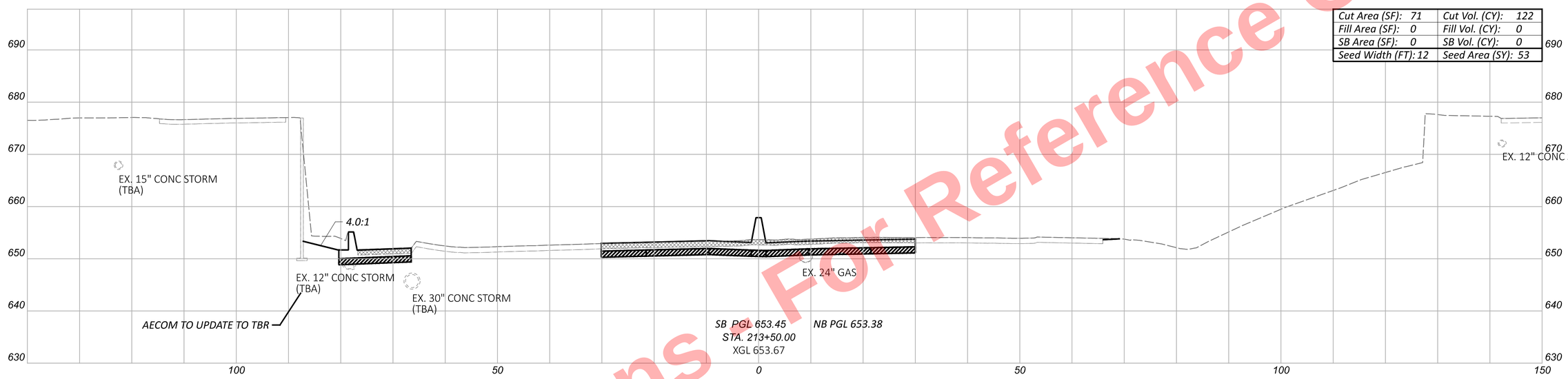
DESIGNER
EAP

REVIEWER
MTR 04/01/22

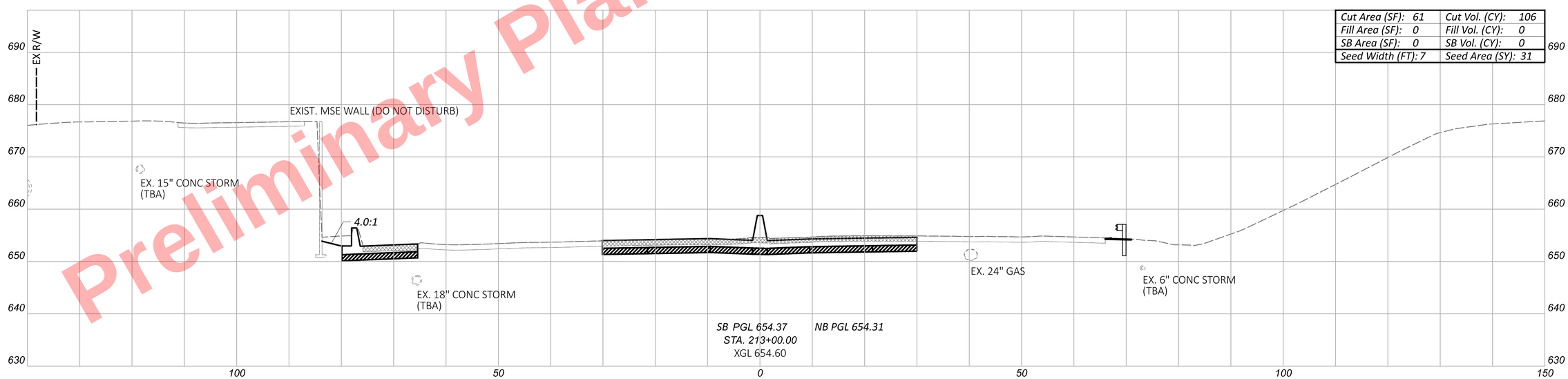
PROJECT ID
105743

SHEET P.487 | TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	71	Cut Vol. (CY):	122
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	12	Seed Area (SY):	53



Cut Area (SF):	61	Cut Vol. (CY):	106
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	7	Seed Area (SY):	31

Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 213+00.00 TO STA. 213+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

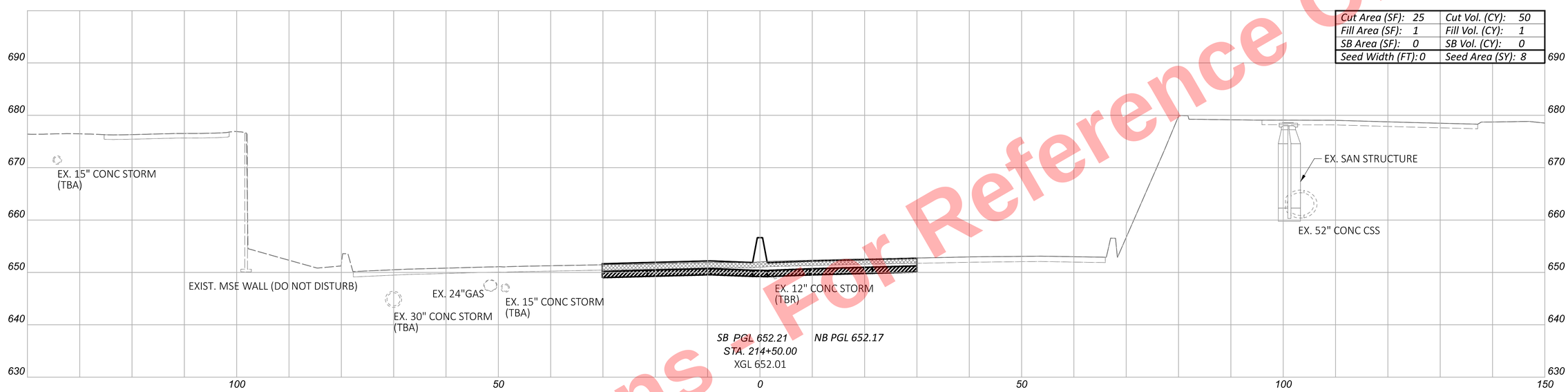
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
84	228	0	0

SHEET P.488 | TOTAL P.1269

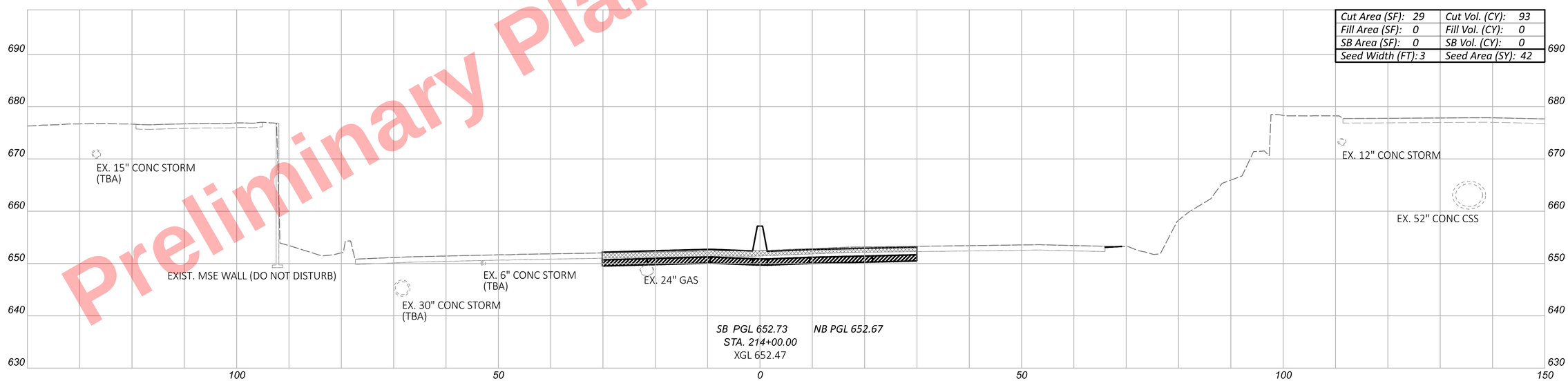
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 213+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:13 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	25	Cut Vol. (CY):	50
Fill Area (SF):	1	Fill Vol. (CY):	1
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	8



Cut Area (SF):	29	Cut Vol. (CY):	93
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	3	Seed Area (SY):	42

Preliminary Plans For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 214+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:18 AM USER: kperkins
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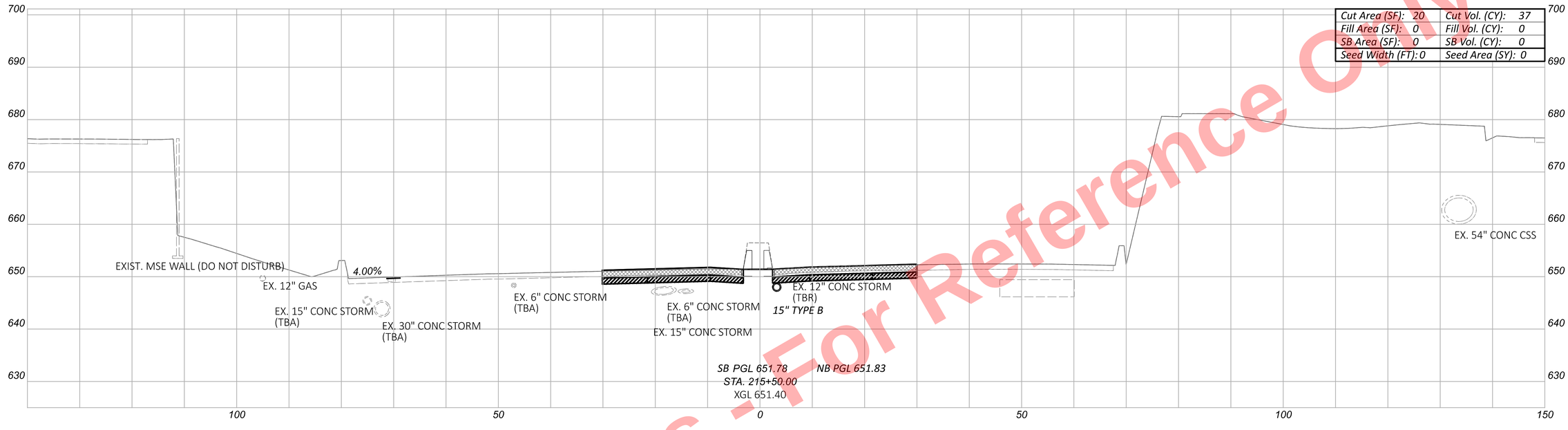
CROSS SECTIONS - I.R. 77
STA. 214+00.00 TO STA. 214+50.00

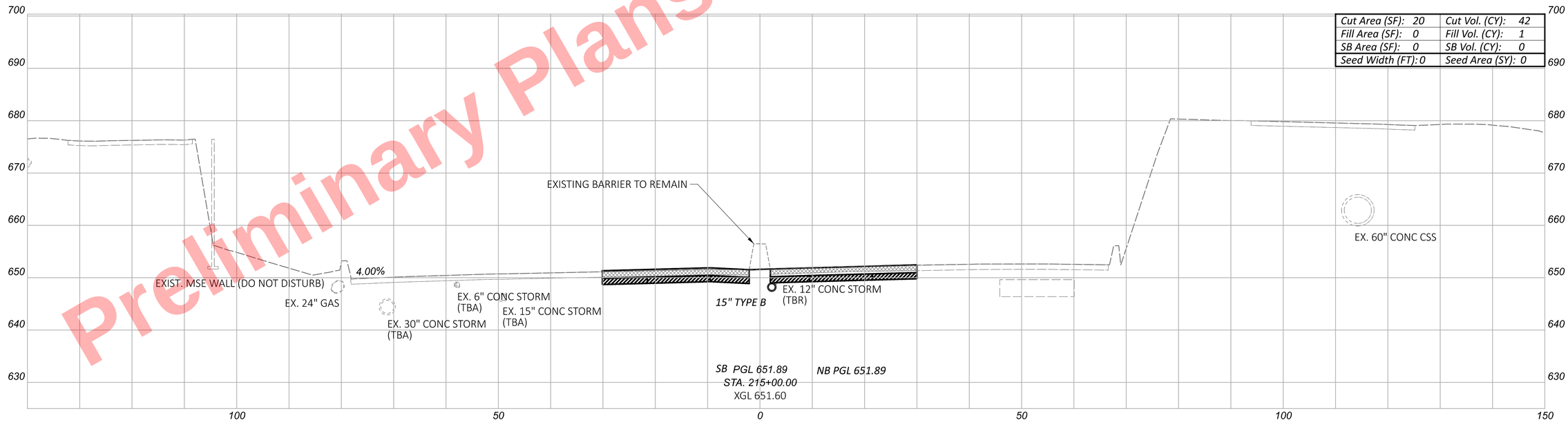
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
50	143	1	0

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.489 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





Preliminary Plans - For Reference Only

CROSS SECTIONS - I.R. 77
STA. 215+00.00 TO STA. 215+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
0	79	1	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.490 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 215+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:23 AM USER: kperkins
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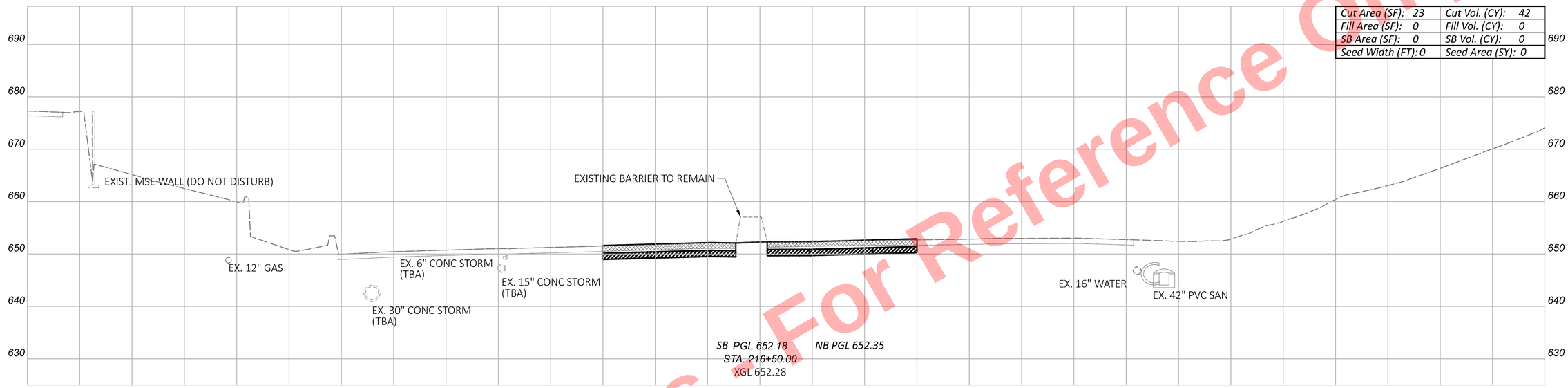
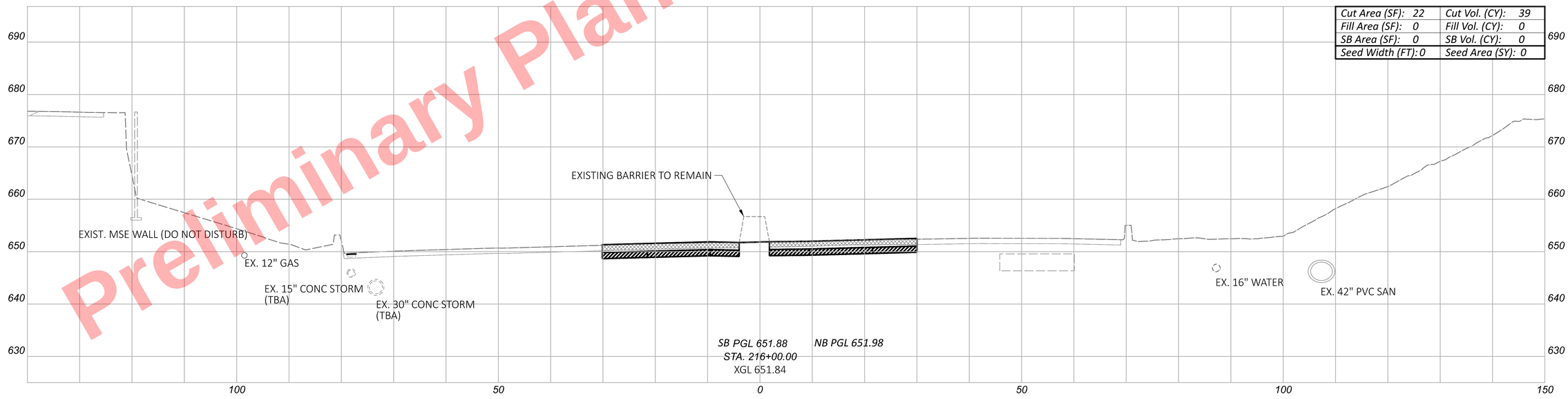
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	23	Cut Vol. (CY):	42
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0



Cut Area (SF):	22	Cut Vol. (CY):	39
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 216+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:28 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

CROSS SECTIONS - I.R. 77
STA. 216+00.00 TO STA. 216+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

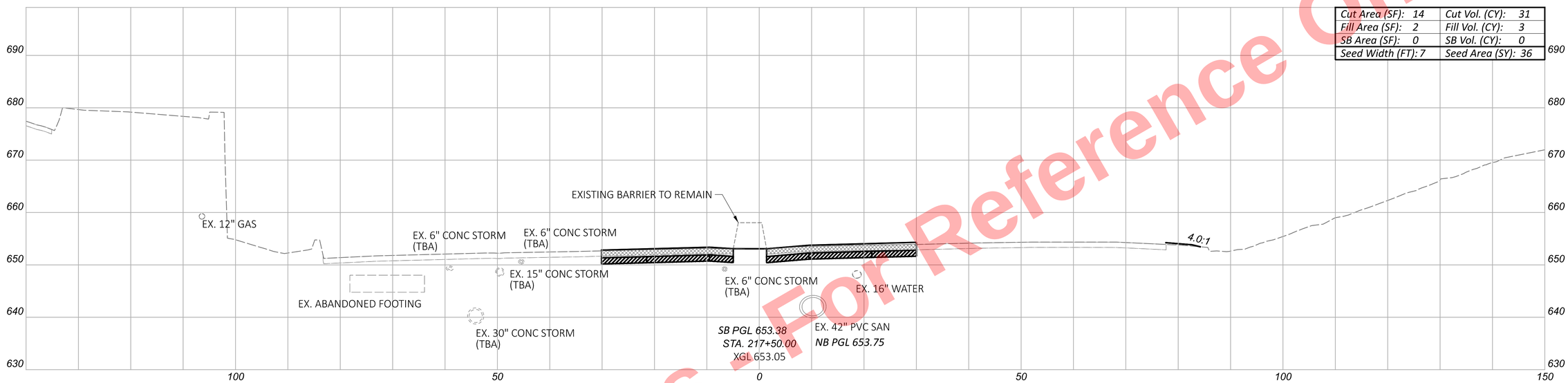
REVIEWER
MTR 04/01/22

PROJECT ID
105743

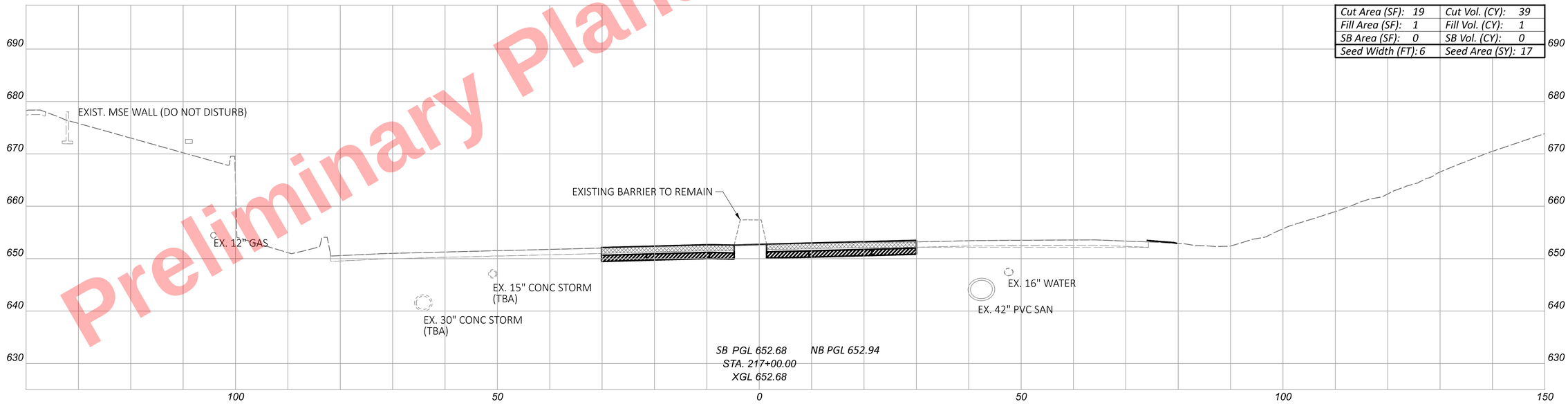
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
0	81	0	0

SHEET P.491 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 14	Cut Vol. (CY): 31
Fill Area (SF): 2	Fill Vol. (CY): 3
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 7	Seed Area (SY): 36



Cut Area (SF): 19	Cut Vol. (CY): 39
Fill Area (SF): 1	Fill Vol. (CY): 1
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 6	Seed Area (SY): 17

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 217+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:33 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\S - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

CROSS SECTIONS - I.R. 77
STA. 217+00.00 TO STA. 217+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
53	70	4	0

DESIGN AGENCY
HNTB

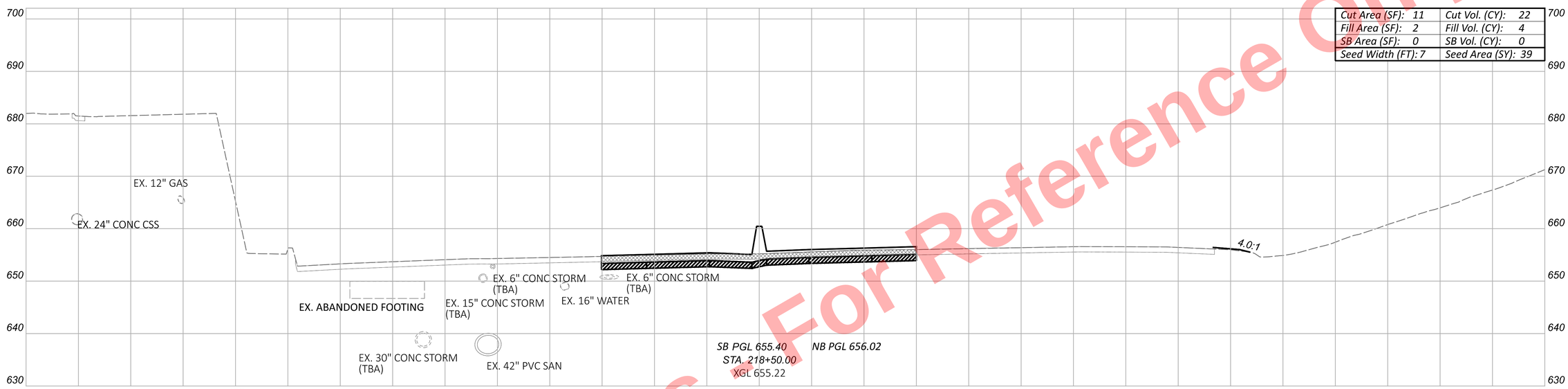
DESIGNER
EAP

REVIEWER
MTR 04/01/22

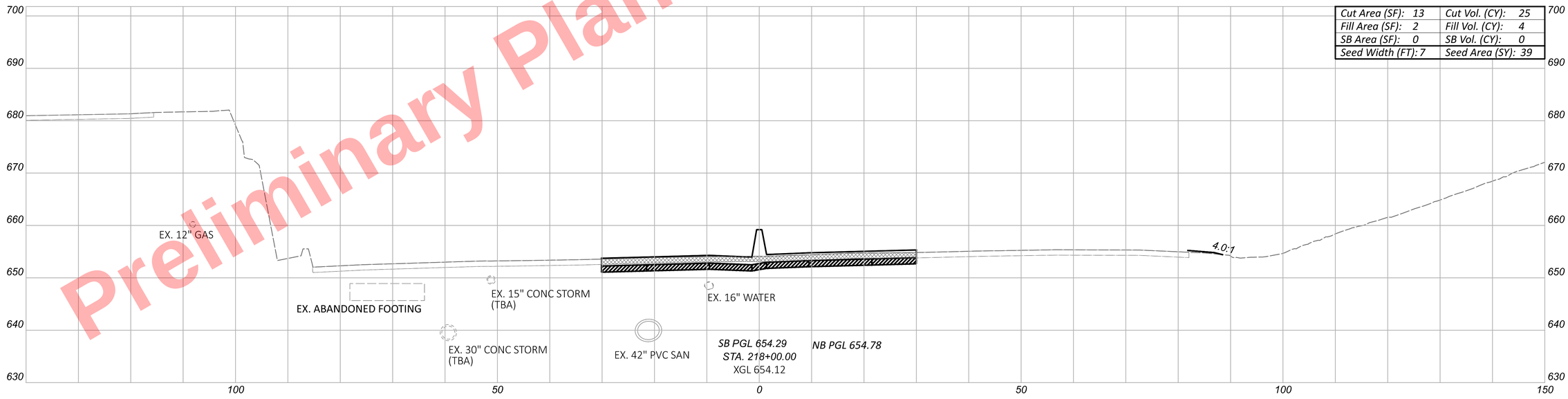
PROJECT ID
105743

SHEET P.492 | TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	11	Cut Vol. (CY):	22
Fill Area (SF):	2	Fill Vol. (CY):	4
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	7	Seed Area (SY):	39



Cut Area (SF):	13	Cut Vol. (CY):	25
Fill Area (SF):	2	Fill Vol. (CY):	4
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	7	Seed Area (SY):	39

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 218+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:39 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\S - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

CROSS SECTIONS - I.R. 77
STA. 218+00.00 TO STA. 218+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
78	47	8	0

DESIGN AGENCY
HNTB

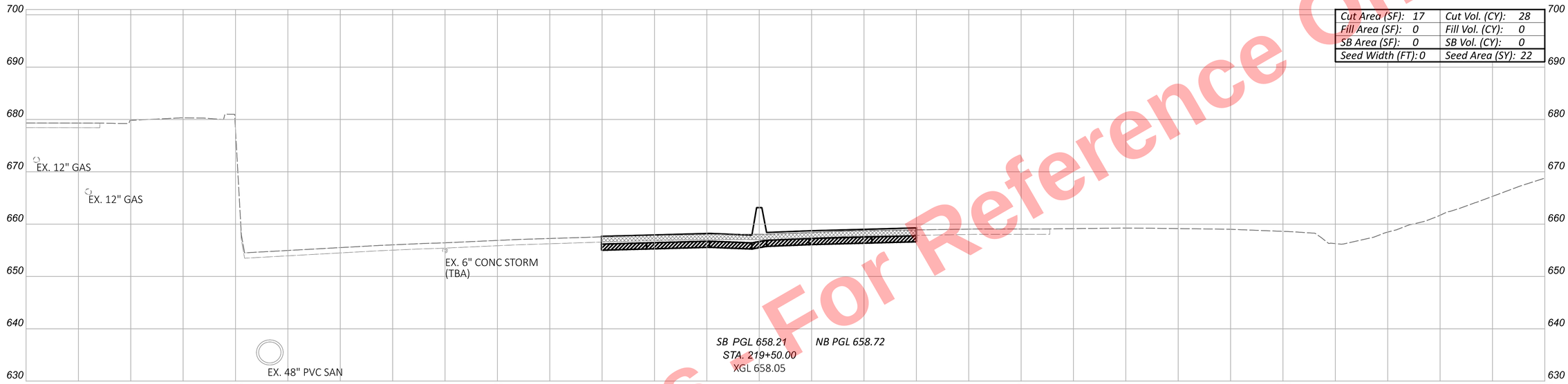
DESIGNER
EAP

REVIEWER
MTR 04/01/22

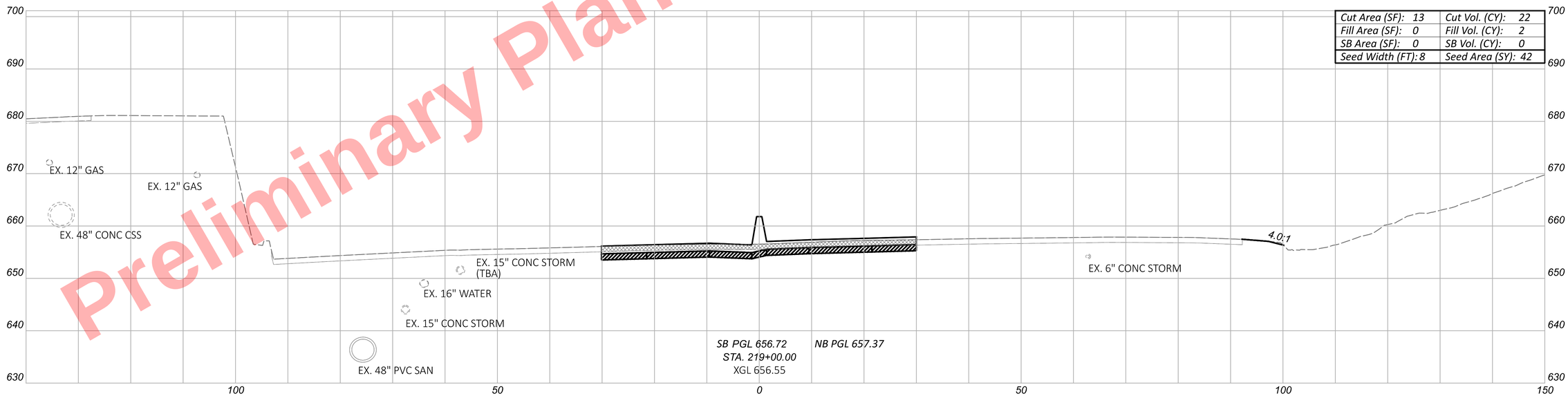
PROJECT ID
105743

SHEET P.493 | TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	17	Cut Vol. (CY):	28
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	22



Cut Area (SF):	13	Cut Vol. (CY):	22
Fill Area (SF):	0	Fill Vol. (CY):	2
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	8	Seed Area (SY):	42

Preliminary Plans For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 219+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:44 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

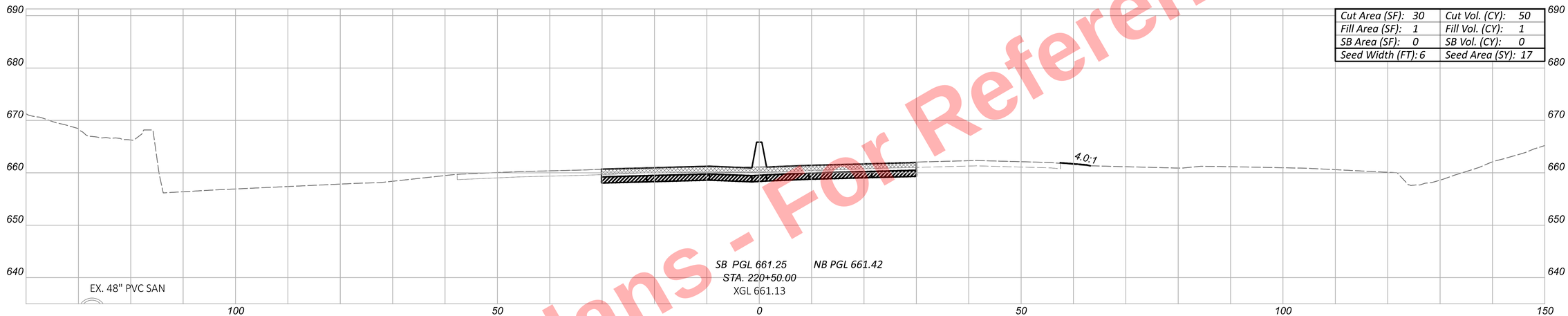
CROSS SECTIONS - I.R. 77
STA. 219+00.00 TO STA. 219+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
64	50	2	0

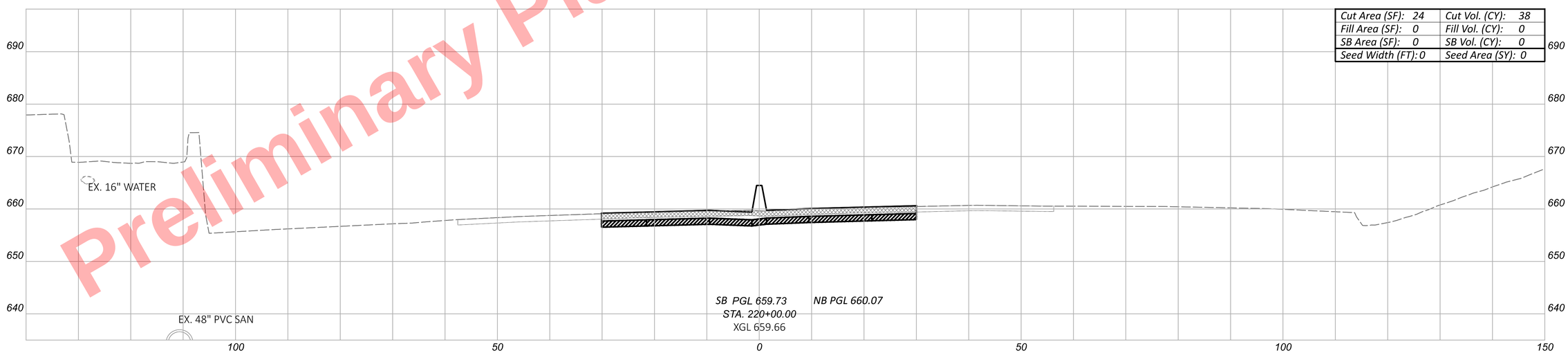
DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.494 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 30	Cut Vol. (CY): 50
Fill Area (SF): 1	Fill Vol. (CY): 1
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 6	Seed Area (SY): 17



Cut Area (SF): 24	Cut Vol. (CY): 38
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 0	Seed Area (SY): 0

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 220+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:49 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

CROSS SECTIONS - I.R. 77
STA. 220+00.00 TO STA. 220+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
17	88	1	0

DESIGN AGENCY
HNTB

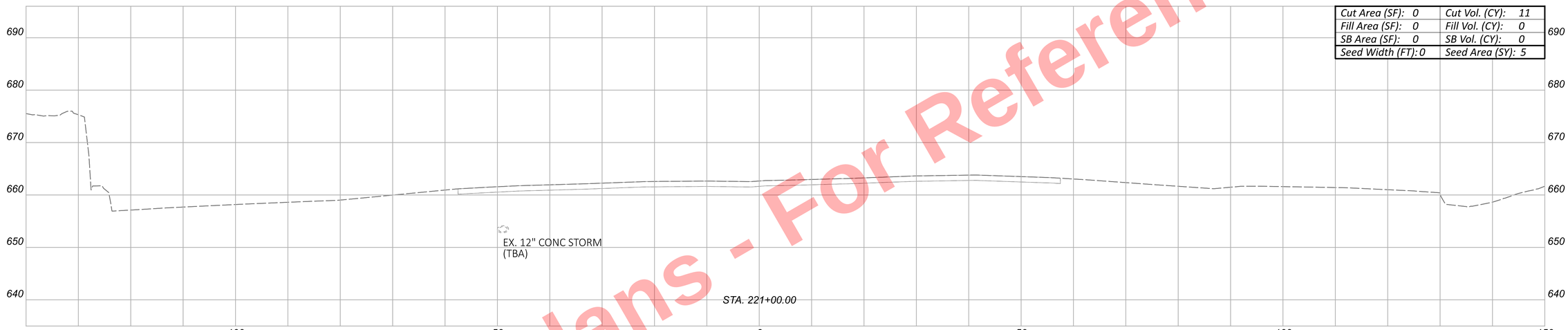
DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

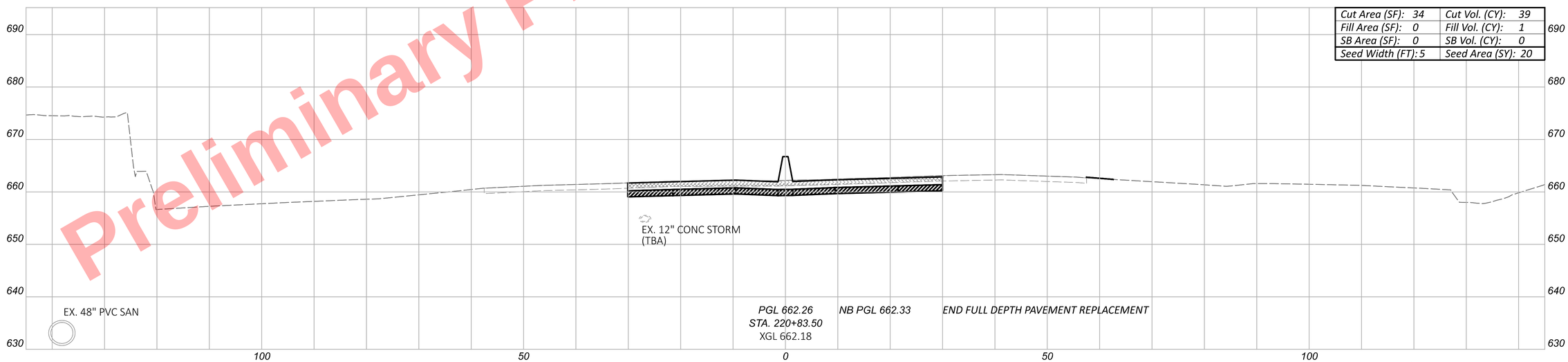
SHEET P.495 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 0	Cut Vol. (CY): 11
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 0	Seed Area (SY): 5

NOTE: RESURFACING EXTENDS TO STA. 228+99.12 (LT) AND STA. 227+98.78 (RT)



Cut Area (SF): 34	Cut Vol. (CY): 39
Fill Area (SF): 0	Fill Vol. (CY): 1
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 5	Seed Area (SY): 20

Preliminary Plans - For Reference Only

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
25	50	1	0

CROSS SECTIONS - I.R. 77
END TO STA. 221+00.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

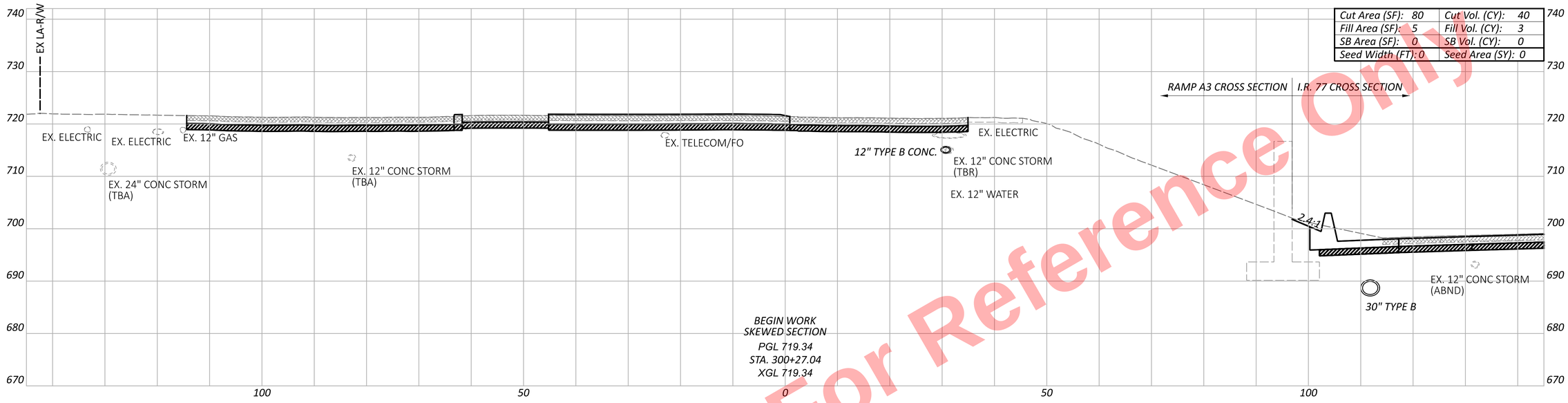
PROJECT ID
105743

SHEET P.496 | TOTAL P.1269

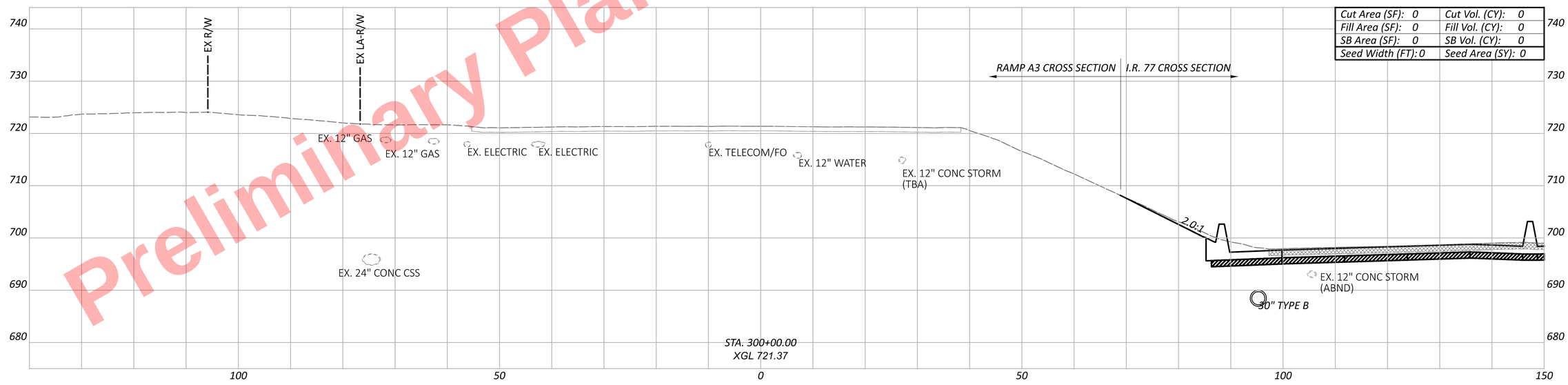
CUY-77-11.41 - PART 1

MODEL: CLP_i077 - 220+83.50 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:44:54 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	80	Cut Vol. (CY):	40
Fill Area (SF):	5	Fill Vol. (CY):	3
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0



Cut Area (SF):	0	Cut Vol. (CY):	0
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0

Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP A3
STA. 300+00.00 TO BEGIN WORK

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
0	40	3	0

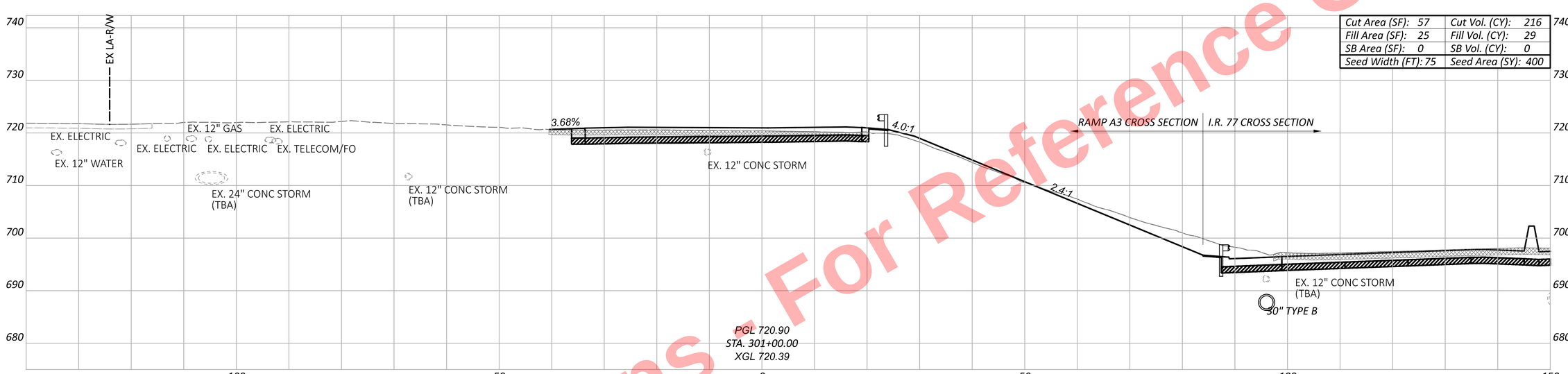
DESIGN AGENCY
HNTB

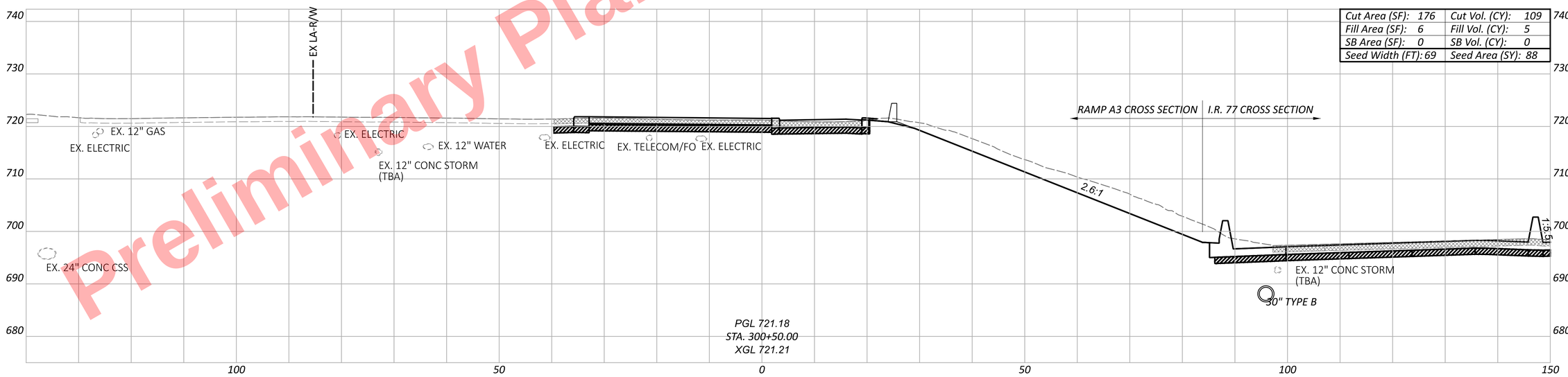
DESIGNER AS
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.497 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R283_A3 - 300+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:45:10 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_XS201.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP A3
STA. 300+50.00 TO STA. 301+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
488	325	34	0

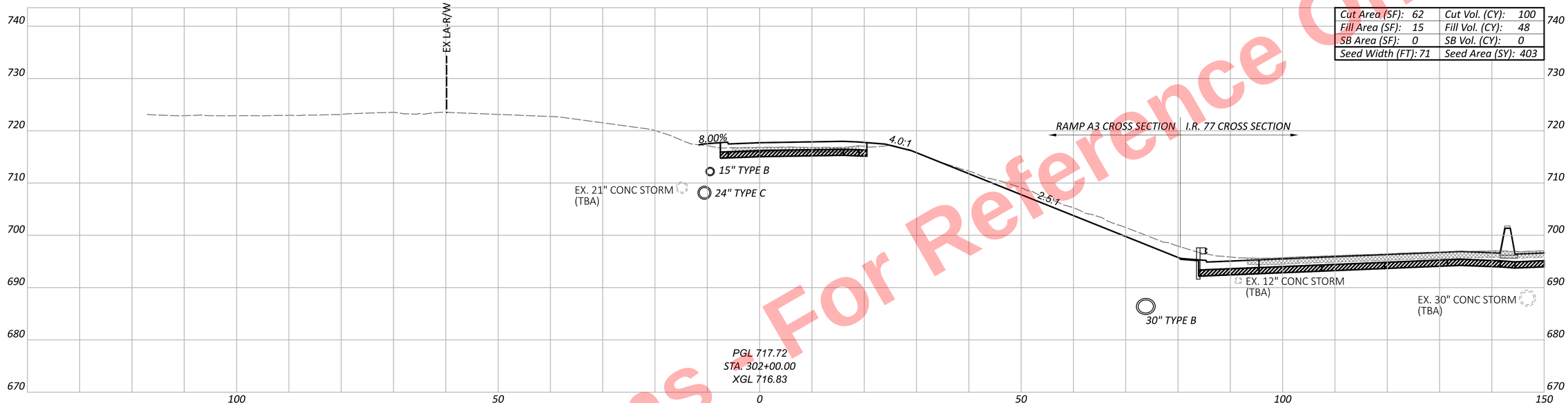
DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.498 TOTAL P.1269

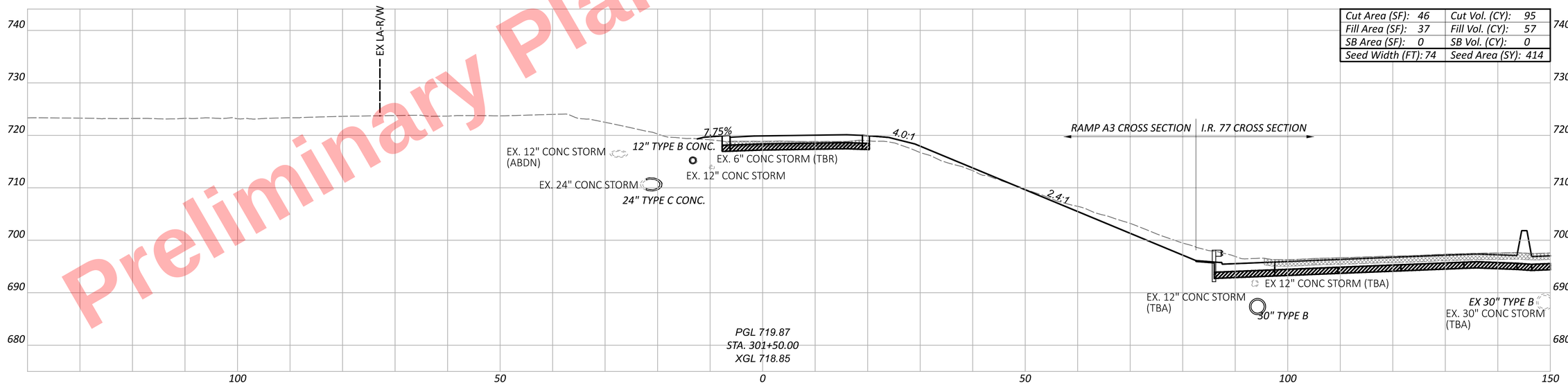
CUY-77-11.41 - PART 1

MODEL: BLP_R283_A3 - 300+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:45:15 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS201.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 62	Cut Vol. (CY): 100
Fill Area (SF): 15	Fill Vol. (CY): 48
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 71	Seed Area (SY): 403



Cut Area (SF): 46	Cut Vol. (CY): 95
Fill Area (SF): 37	Fill Vol. (CY): 57
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 74	Seed Area (SY): 414

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

CROSS SECTIONS - RAMP A3
STA. 301+50.00 TO STA. 302+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
817	195	105	0

DESIGN AGENCY
HNTB

DESIGNER
AS

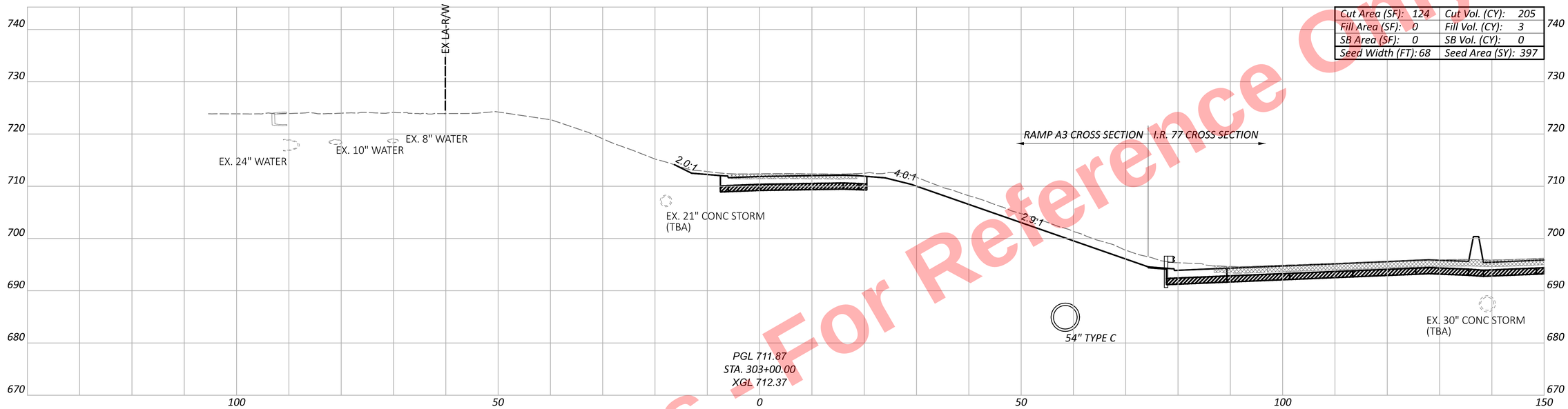
REVIEWER
MTR 04/01/22

PROJECT ID
105743

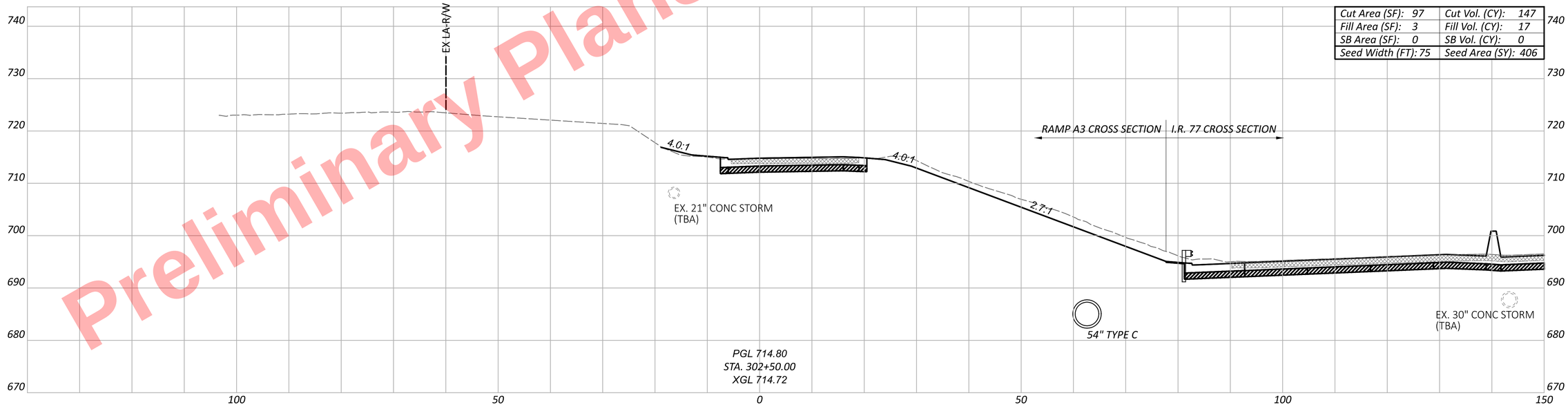
SHEET P.499 | TOTAL P.1269

MODEL: BLP_R283_A3 - 301+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:45:23 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS201.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 124	Cut Vol. (CY): 205
Fill Area (SF): 0	Fill Vol. (CY): 3
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 68	Seed Area (SY): 397



Cut Area (SF): 97	Cut Vol. (CY): 147
Fill Area (SF): 3	Fill Vol. (CY): 17
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 75	Seed Area (SY): 406

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

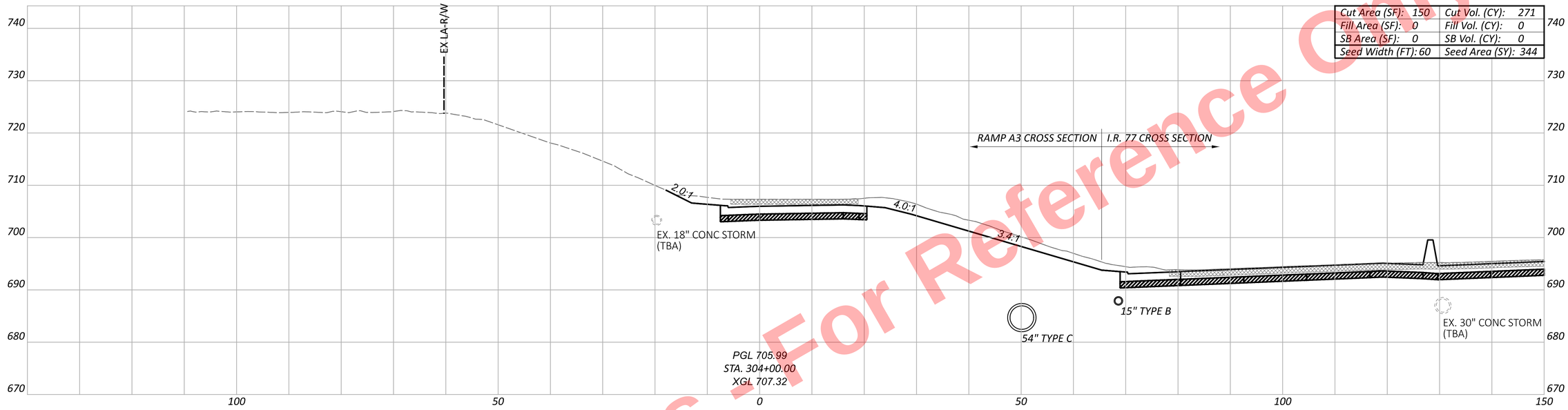
CROSS SECTIONS - RAMP A3
STA. 302+50.00 TO STA. 303+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
803	352	20	0

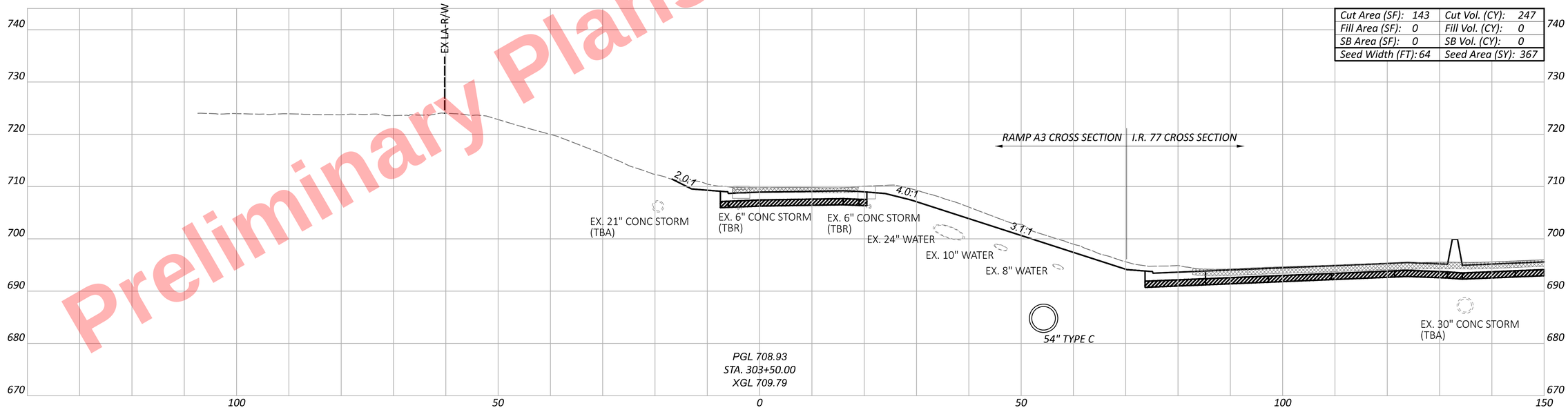
DESIGN AGENCY: HNTB
DESIGNER: AS
REVIEWER: MTR 04/01/22
PROJECT ID: 105743
SHEET: P.500 | TOTAL: P.1269

MODEL: BLP_R283_A3 - 302+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:45:29 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS201.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	150	Cut Vol. (CY):	271
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	60	Seed Area (SY):	344



Cut Area (SF):	143	Cut Vol. (CY):	247
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	64	Seed Area (SY):	367

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: BLP_R283_A3 - 303+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:45:36 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS201.dgn

CROSS SECTIONS - RAMP A3
STA. 303+50.00 TO STA. 304+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
711	518	0	0

DESIGN AGENCY
HNTB

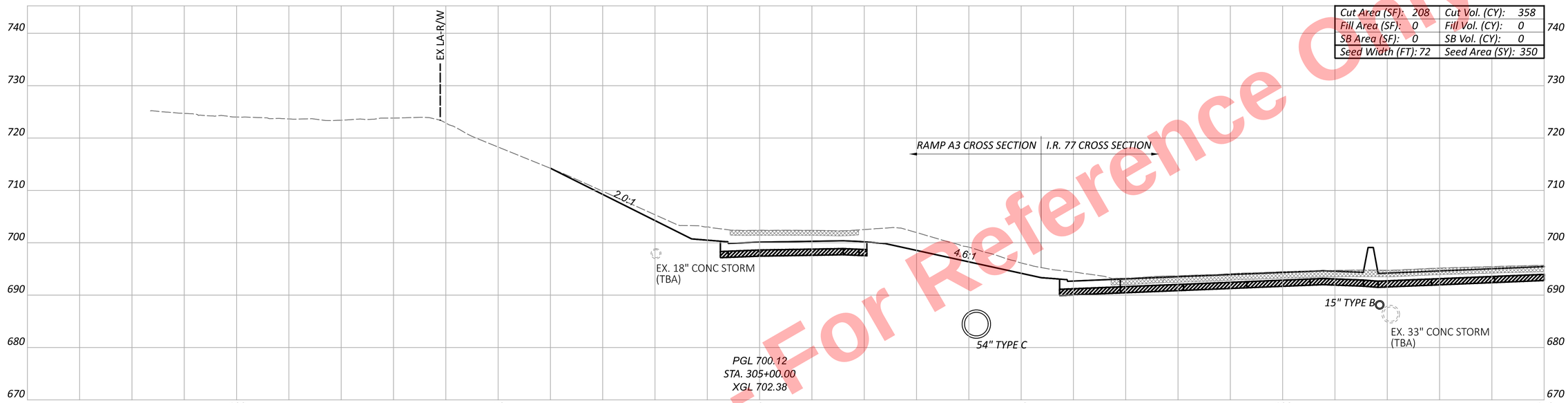
DESIGNER
AS

REVIEWER
MTR 04/01/22

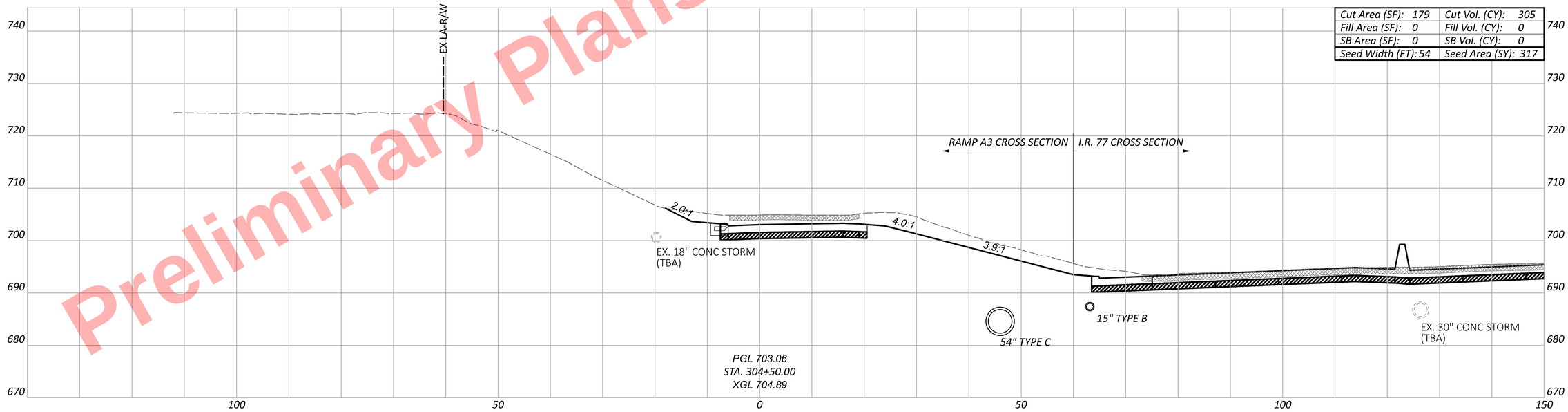
PROJECT ID
105743

SHEET P.501 | TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	208	Cut Vol. (CY):	358
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	72	Seed Area (SY):	350



Cut Area (SF):	179	Cut Vol. (CY):	305
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	54	Seed Area (SY):	317

Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP A3
STA. 304+50.00 TO STA. 305+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
667	663	0	0

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

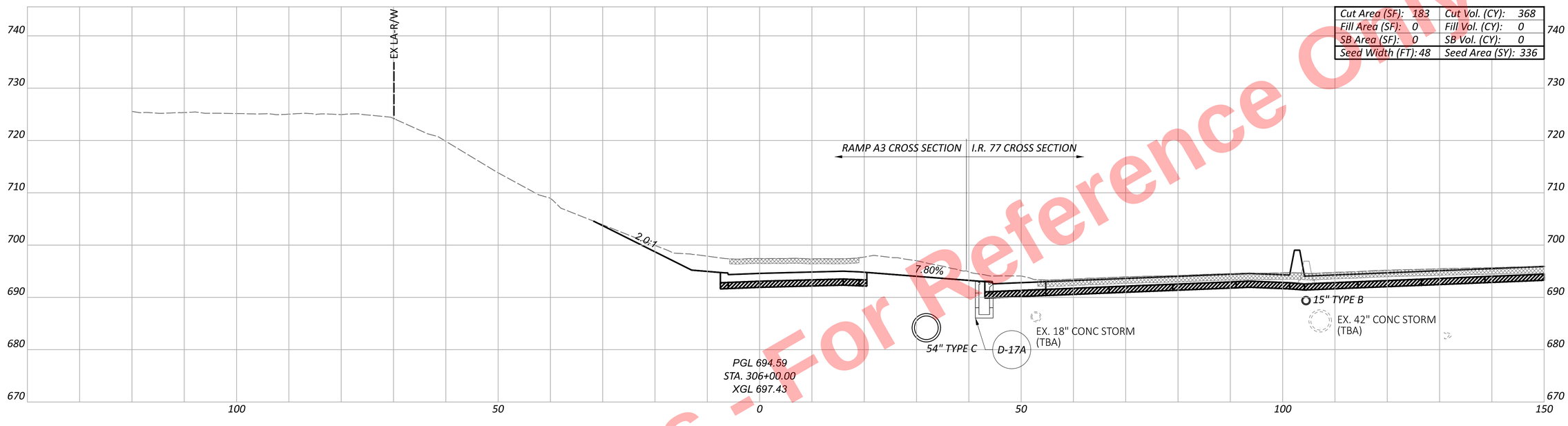
PROJECT ID
105743

SHEET P.502 TOTAL P.1269

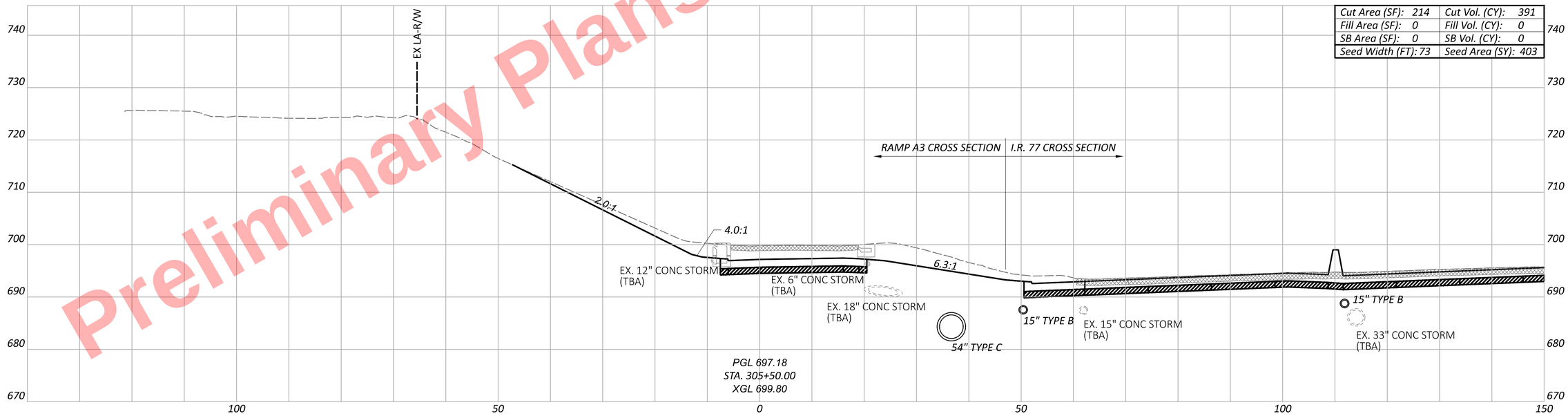
CUY-77-11.41 - PART 1

MODEL: BLP_R283_A3 - 304+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:45:42 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_XS201.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	183	Cut Vol. (CY):	368
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	48	Seed Area (SY):	336



Cut Area (SF):	214	Cut Vol. (CY):	391
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	73	Seed Area (SY):	403

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

CROSS SECTIONS - RAMP A3
STA. 305+50.00 TO STA. 306+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
739	759	0	0

DESIGN AGENCY
HNTB

DESIGNER
AS

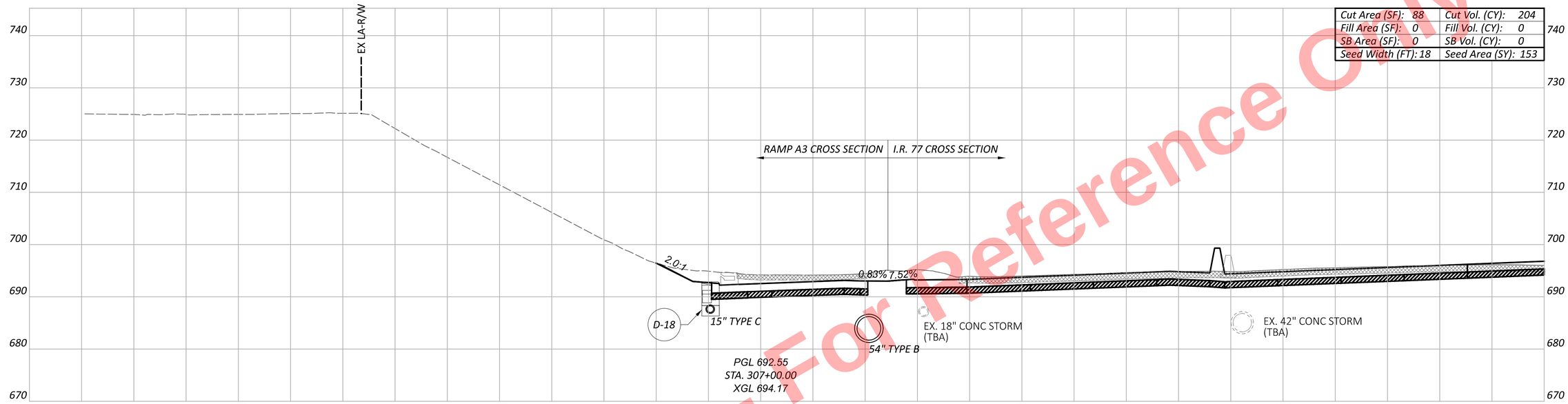
REVIEWER
MTR 04/01/22

PROJECT ID
105743

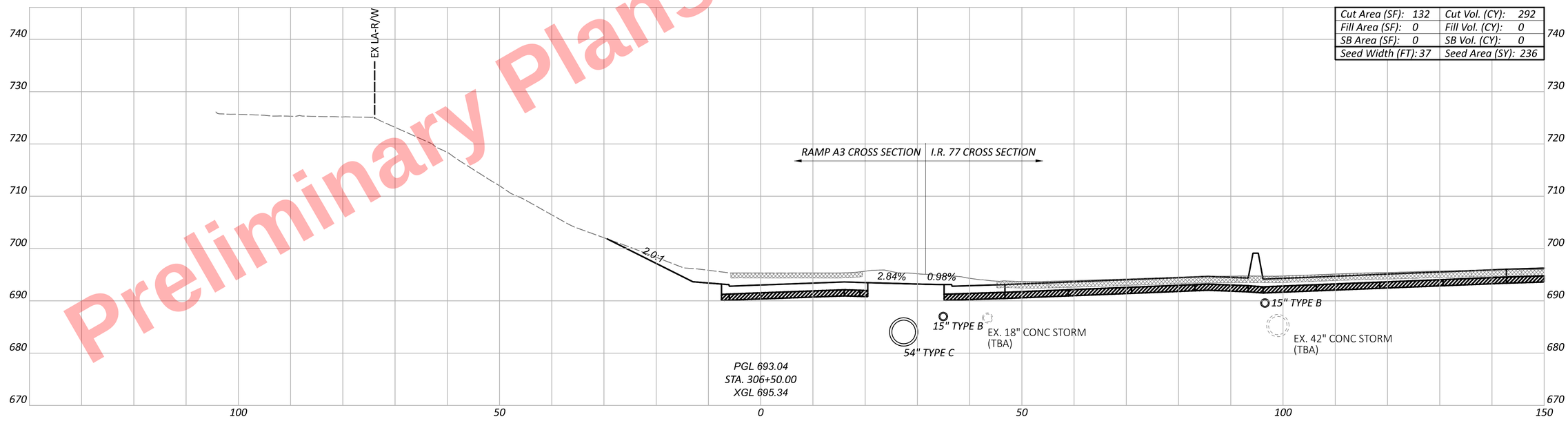
SHEET P.503 | TOTAL P.1269

MODEL: BLP_R283_A3 - 305+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:45:49 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS201.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	88	Cut Vol. (CY):	204
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	18	Seed Area (SY):	153



Cut Area (SF):	132	Cut Vol. (CY):	292
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	37	Seed Area (SY):	236

Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP A3
STA. 306+50.00 TO STA. 307+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
389	496	0	0

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

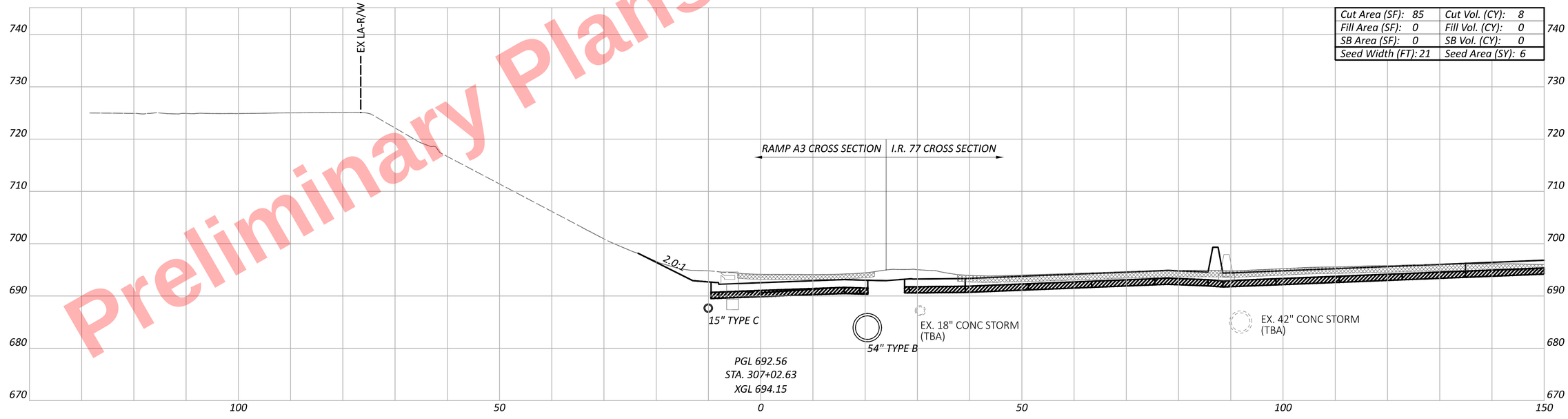
SHEET P.504 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R283_A3 - 306+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:45:55 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_XS201.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF):	85	Cut Vol. (CY):	8
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	21	Seed Area (SY):	6

CROSS SECTIONS - RAMP A3
PHYSICAL GORE

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

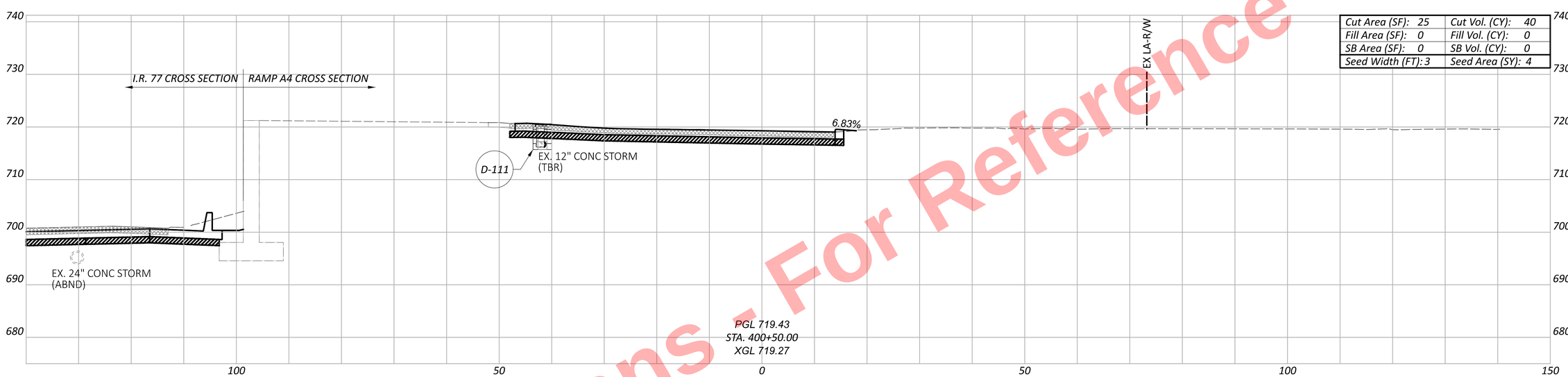
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
6	8	0	0

SHEET P.505 TOTAL P.1269

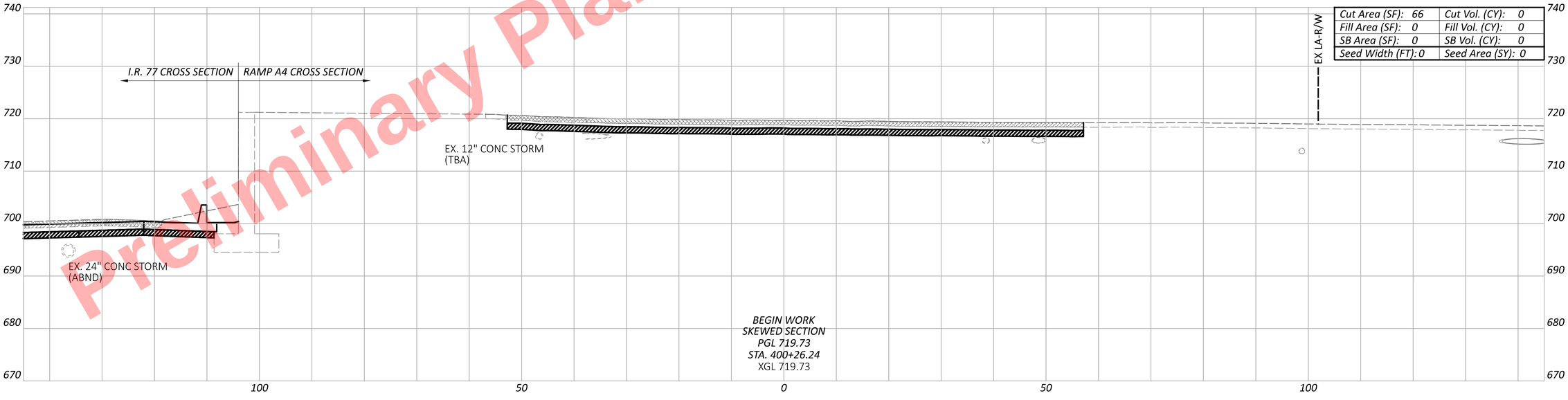
CUY-77-11.41 - PART 1

MODEL: BLP_R283_A3 - 307+02.63 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:46:02 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.22\105743\d00-Engineering\Roadway\Sheets\105743_XS201.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	25	Cut Vol. (CY):	40
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	3	Seed Area (SY):	4



Cut Area (SF):	66	Cut Vol. (CY):	0
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: BLP_R283_A4 - 400+26.24 |Sheet| PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:46:06 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS201.dgn

CROSS SECTIONS - RAMP A4
BEGIN WORK TO STA. 400+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

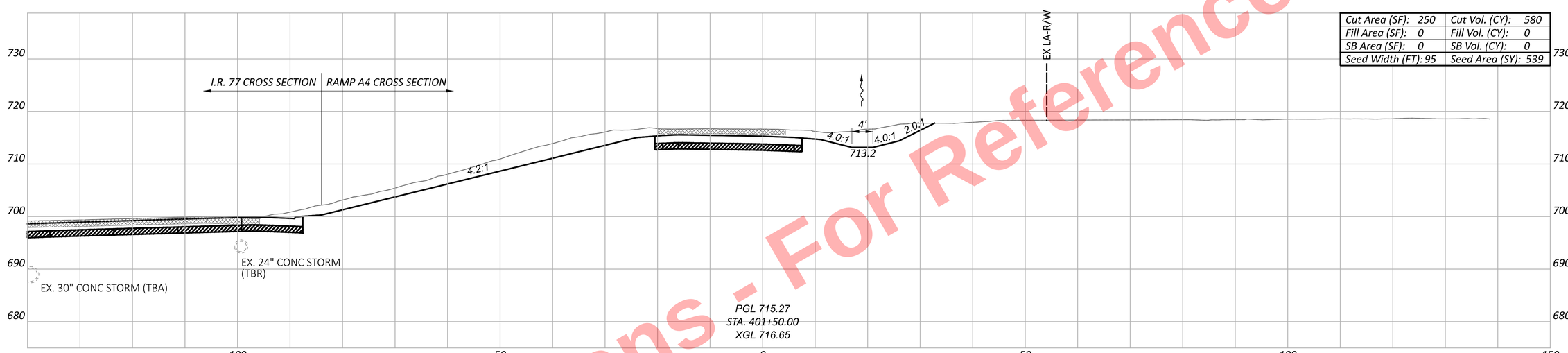
REVIEWER
MTR 04/01/22

PROJECT ID
105743

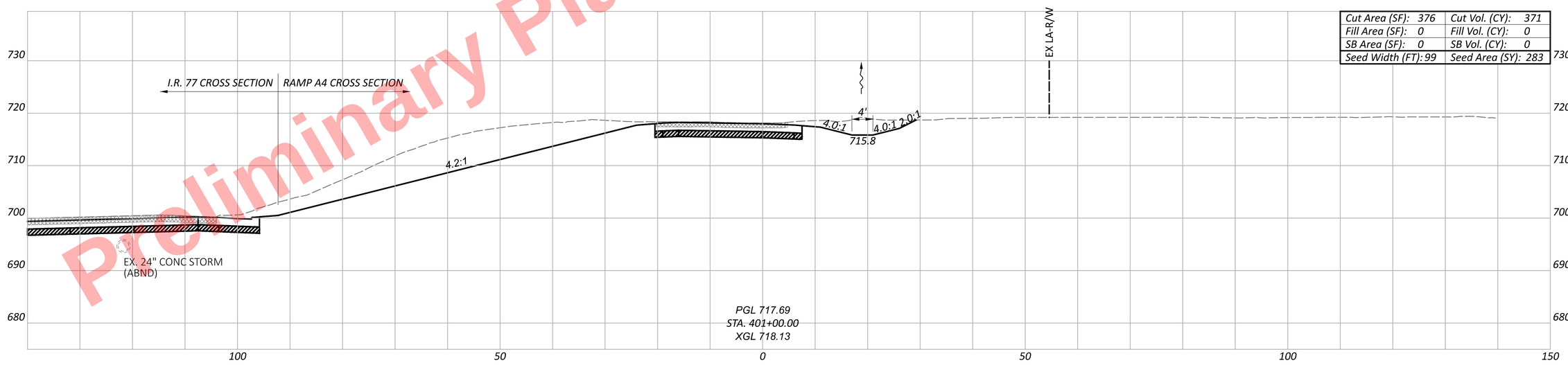
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
4	40	0	0

SHEET	TOTAL
P.506	P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 250	Cut Vol. (CY): 580
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 95	Seed Area (SY): 539



Cut Area (SF): 376	Cut Vol. (CY): 371
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 99	Seed Area (SY): 283

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: BLP_R283_A4 - 401+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:46:10 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS201.dgn

CROSS SECTIONS - RAMP A4
STA. 401+00.00 TO STA. 401+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

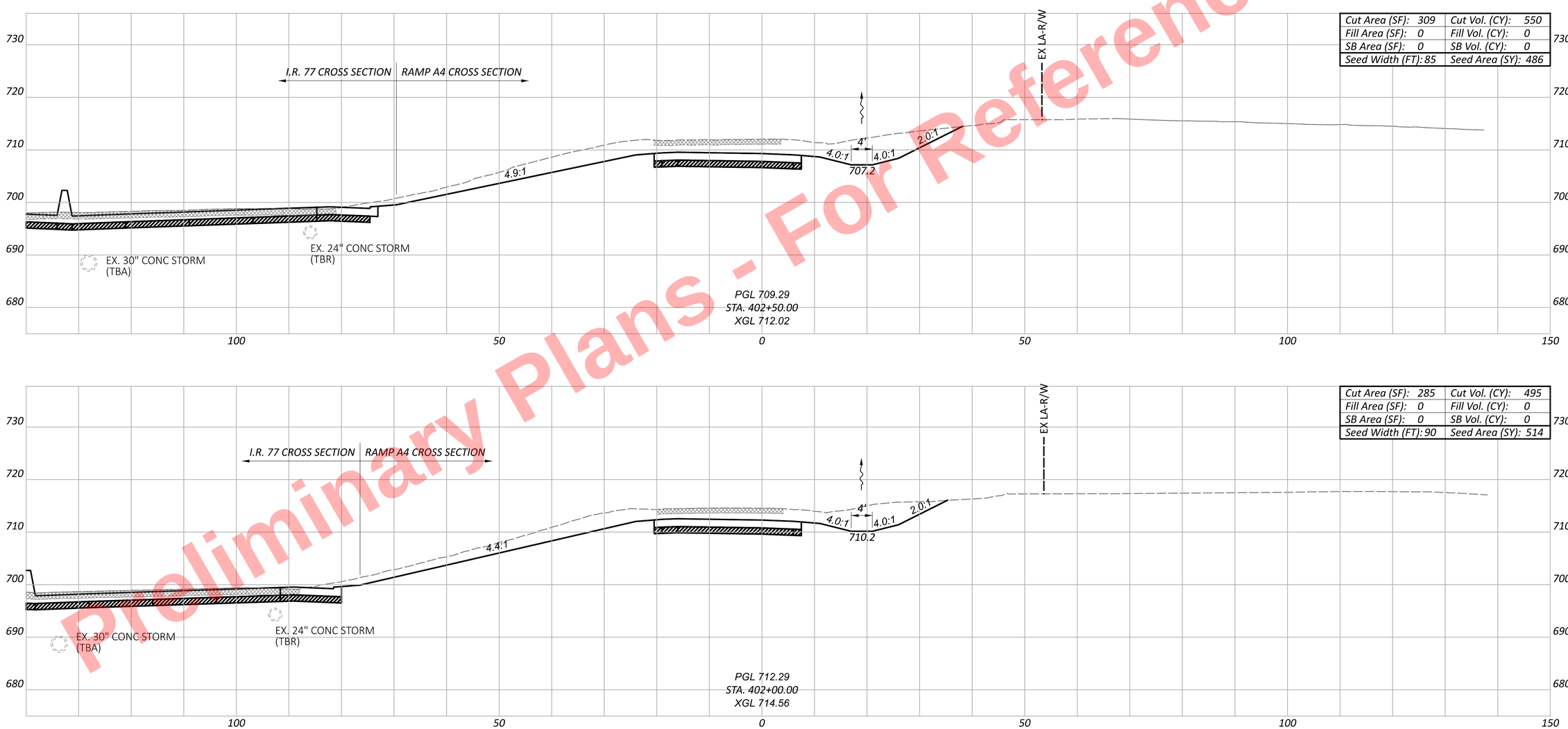
REVIEWER
MTR 04/01/22

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
822	951	0	0

SHEET	TOTAL
P.507	P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP A4
STA. 402+00.00 TO STA. 402+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1000	1045	0	0

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

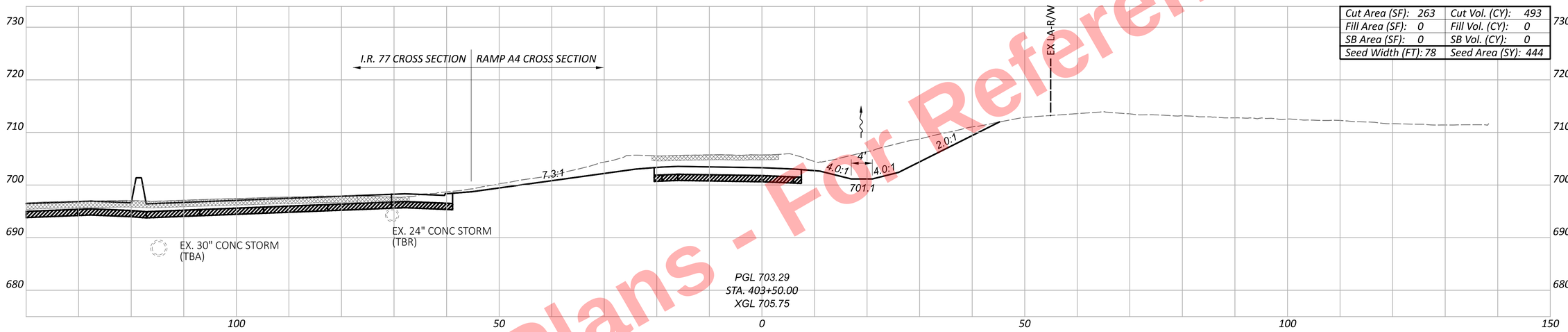
PROJECT ID
105743

SHEET P.508 | TOTAL P.1269

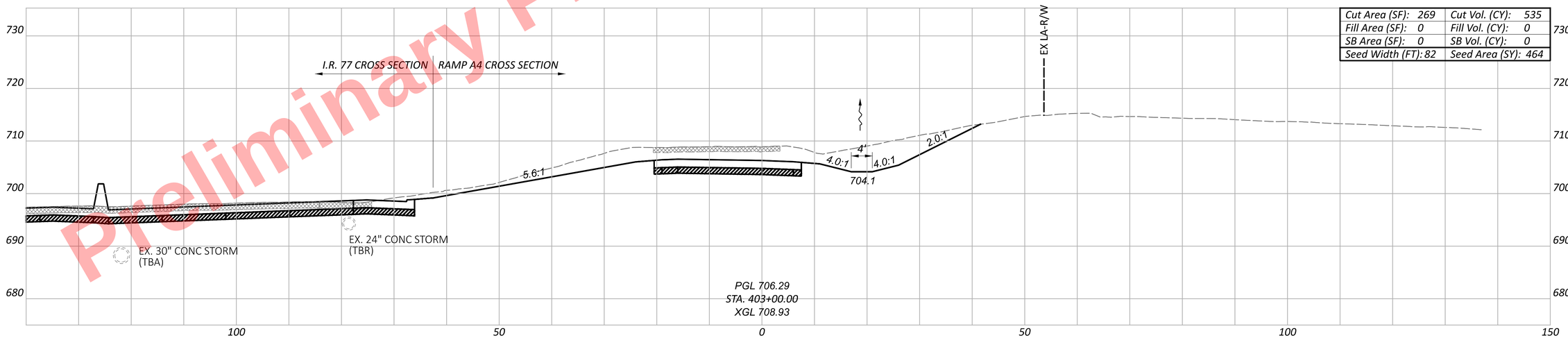
CUY-77-11.41 - PART 1

MODEL: BLP_R283_A4 - 402+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:46:16 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS201.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	263	Cut Vol. (CY):	493
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	78	Seed Area (SY):	444



Cut Area (SF):	269	Cut Vol. (CY):	535
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	82	Seed Area (SY):	464

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: BLP_R283_A4 - 403+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:46:22 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS201.dgn

CROSS SECTIONS - RAMP A4
STA. 403+00.00 TO STA. 403+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

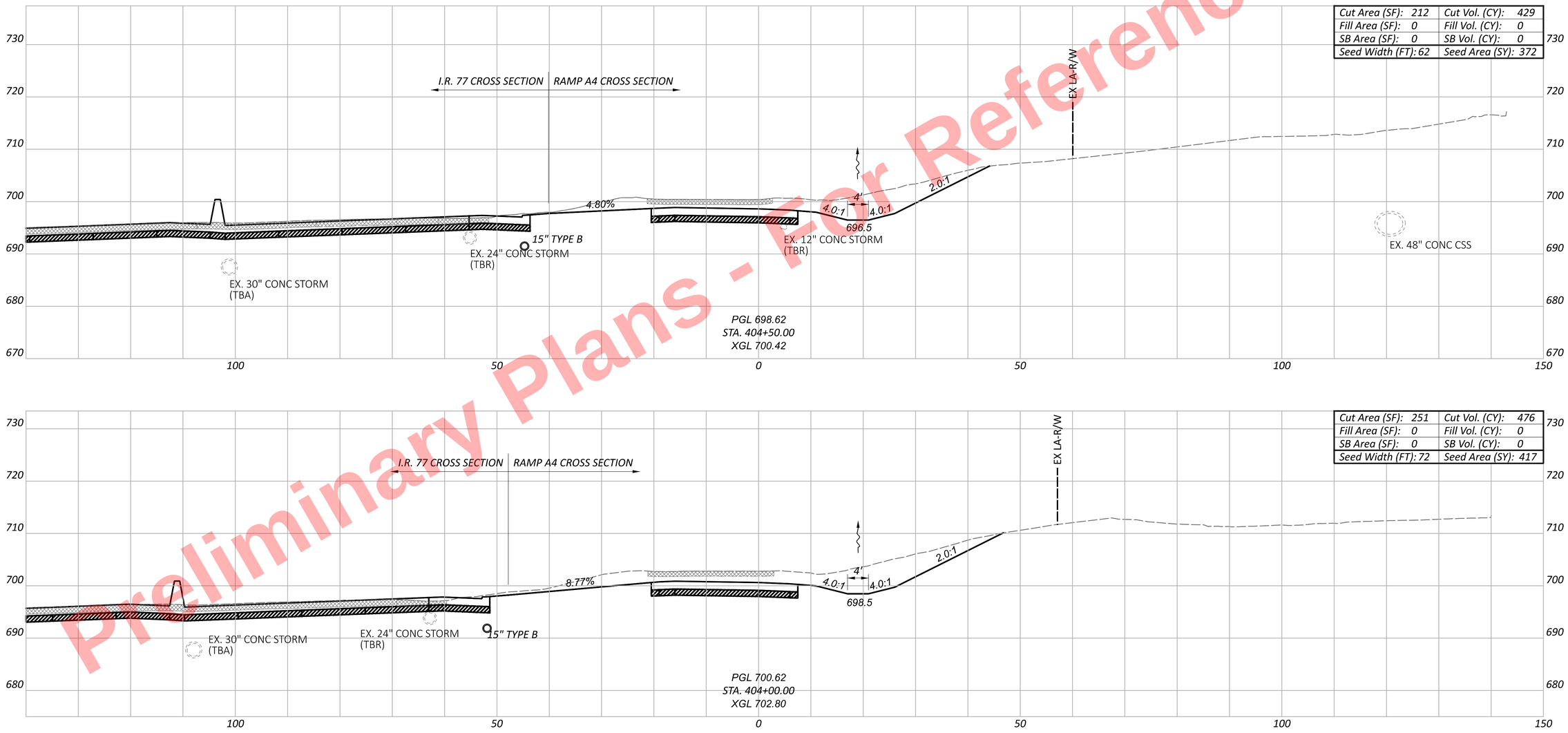
REVIEWER
MTR 04/01/22

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
908	1028	0	0

SHEET	TOTAL
P.509	P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	212	Cut Vol. (CY):	429
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	62	Seed Area (SY):	372

Cut Area (SF):	251	Cut Vol. (CY):	476
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	72	Seed Area (SY):	417

Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP A4
STA. 404+00.00 TO STA. 404+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
789	905	0	0

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

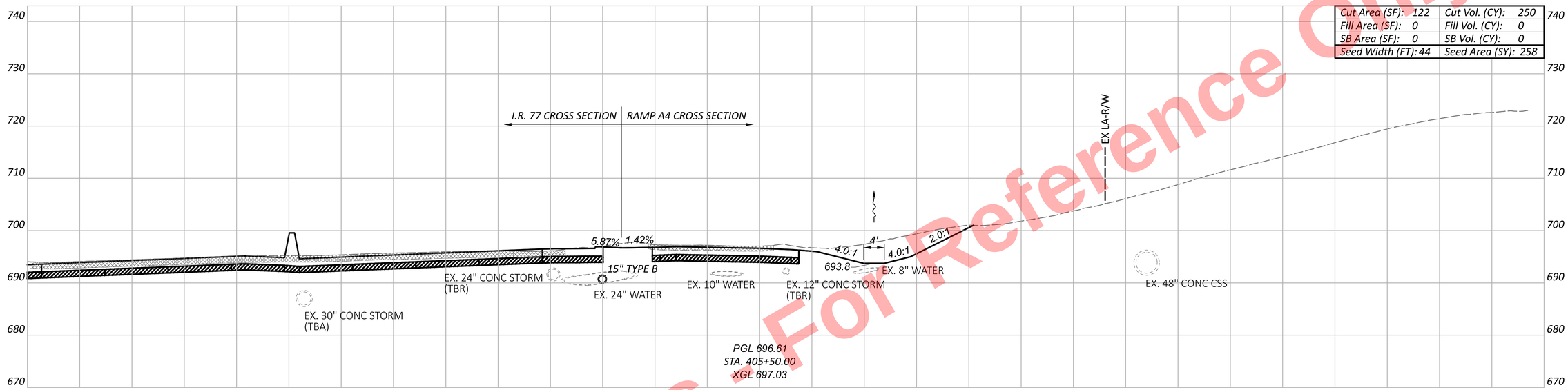
PROJECT ID
105743

SHEET P.510 TOTAL P.1269

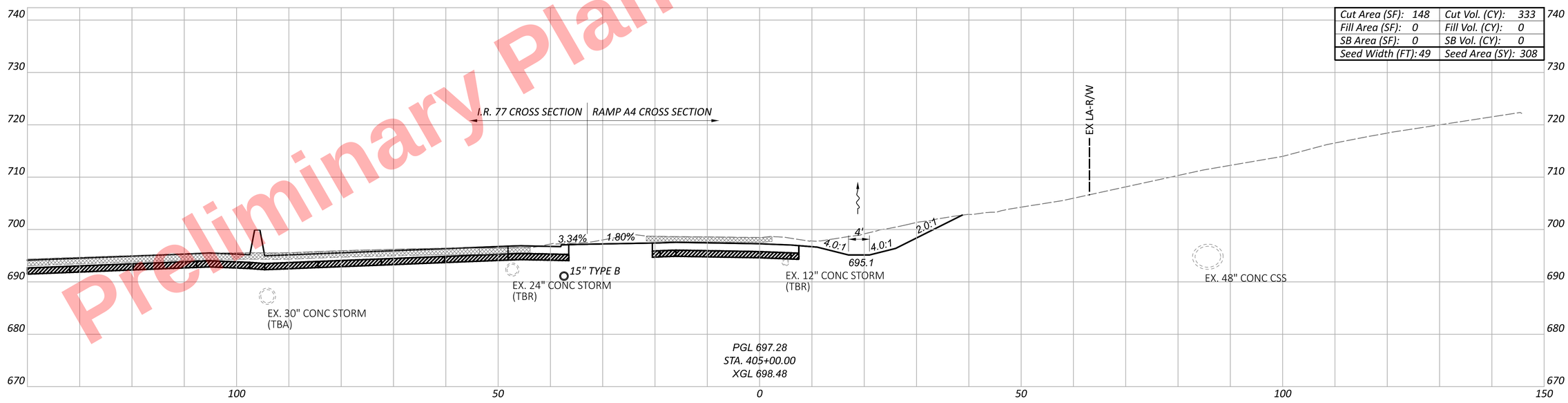
CUY-77-11.41 - PART 1

MODEL: BLP_R283_A4 - 404+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:46:28 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS201.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	122	Cut Vol. (CY):	250
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	44	Seed Area (SY):	258



Cut Area (SF):	148	Cut Vol. (CY):	333
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	49	Seed Area (SY):	308

Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP A4
STA. 405+00.00 TO STA. 405+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
566	583	0	0

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.511 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R283_A4 - 405+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:46:35 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl
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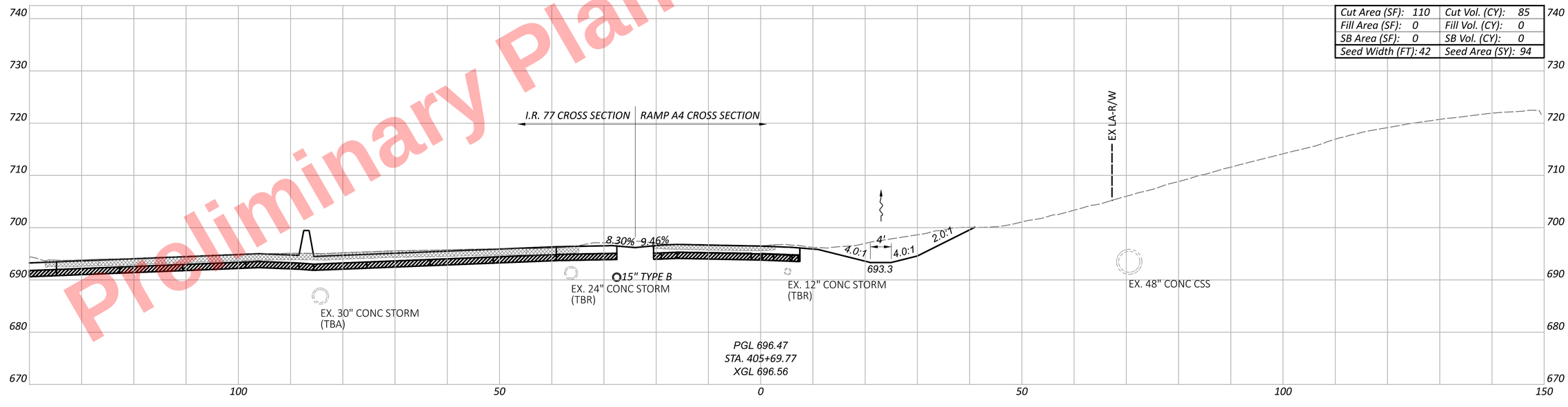
USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF):	110	Cut Vol. (CY):	85
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	42	Seed Area (SY):	94

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
94	85	0	0

CUY-77-11.41 - PART 1

CROSS SECTIONS - RAMP A4
PHYSICAL GORE

DESIGN AGENCY
HNTB

DESIGNER
AS

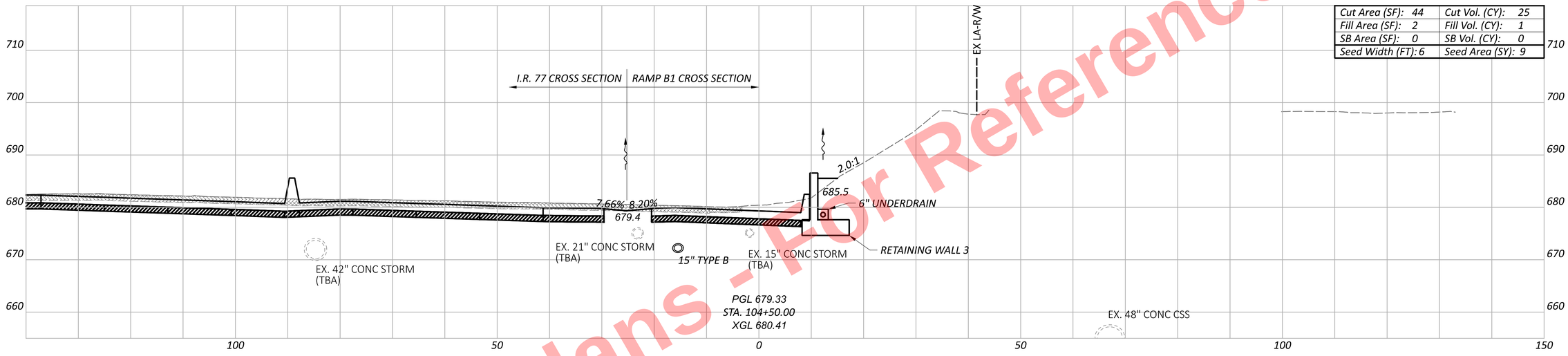
REVIEWER
MTR 04/01/22

PROJECT ID
105743

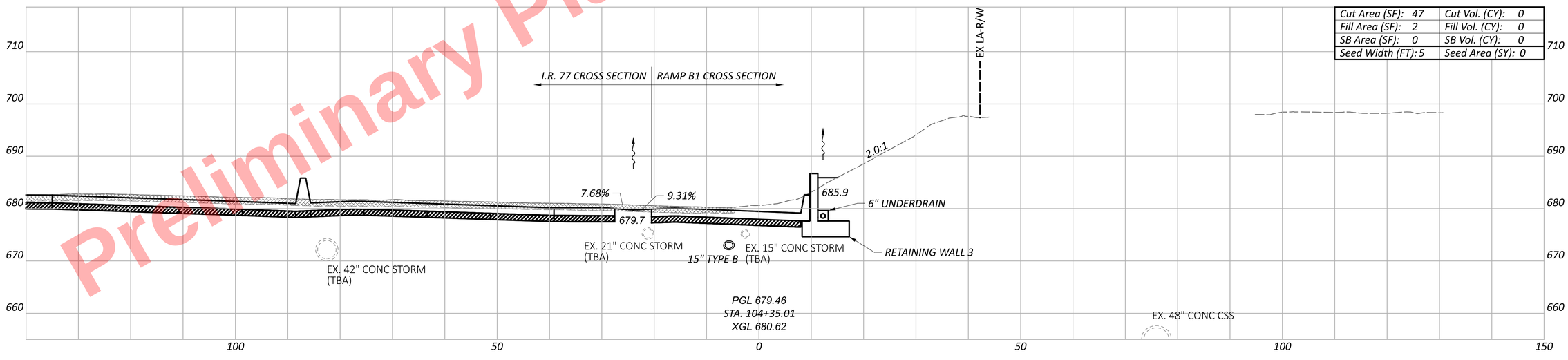
SHEET P.512 TOTAL P.1269

MODEL: BLP_R283_A4 - 405+69.77 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:46:41 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_XS201.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	44	Cut Vol. (CY):	25
Fill Area (SF):	2	Fill Vol. (CY):	1
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	6	Seed Area (SY):	9



Cut Area (SF):	47	Cut Vol. (CY):	0
Fill Area (SF):	2	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	5	Seed Area (SY):	0

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: BLP_R043_B1 - 104+35.01 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:46:59 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_XS301.dgn

CROSS SECTIONS - RAMP B1
PHYSICAL GORE TO STA. 104+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

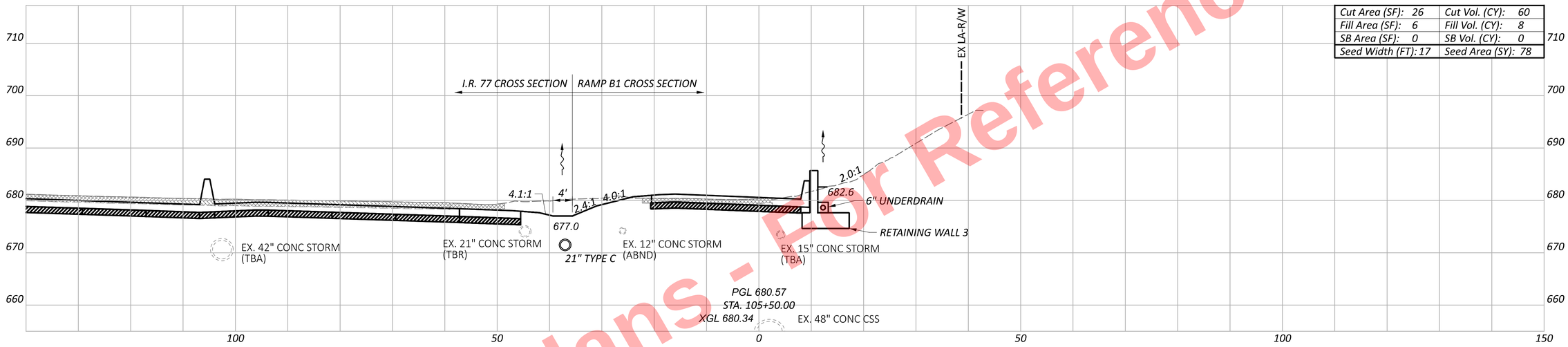
REVIEWER
MTR 04/01/22

PROJECT ID
105743

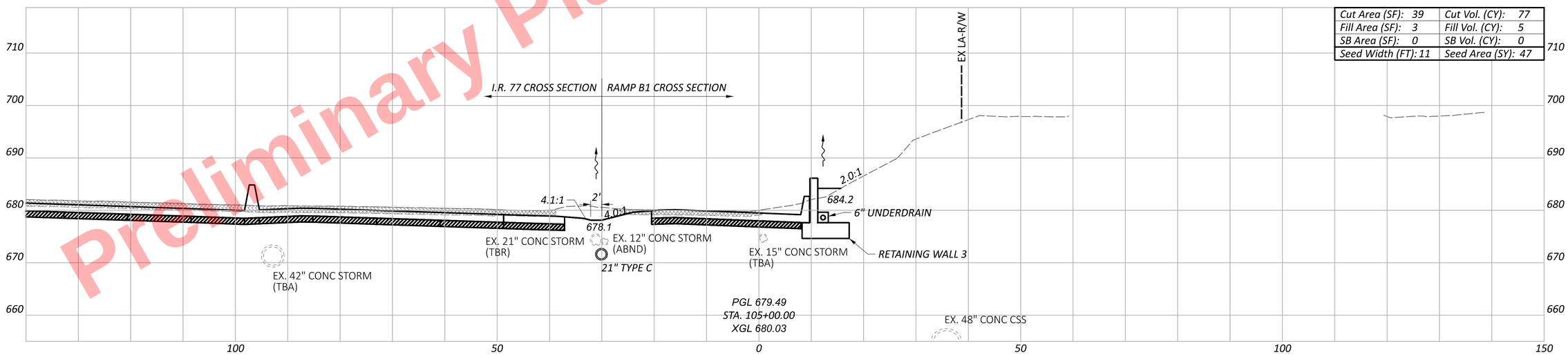
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
9	25	1	0

SHEET P.513 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 26	Cut Vol. (CY): 60
Fill Area (SF): 6	Fill Vol. (CY): 8
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 17	Seed Area (SY): 78



Cut Area (SF): 39	Cut Vol. (CY): 77
Fill Area (SF): 3	Fill Vol. (CY): 5
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 11	Seed Area (SY): 47

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: BLP_R043_B1 - 105+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:47:04 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_XS301.dgn

CROSS SECTIONS - RAMP B1
STA. 105+00.00 TO STA. 105+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
125	137	13	0

DESIGN AGENCY
HNTB

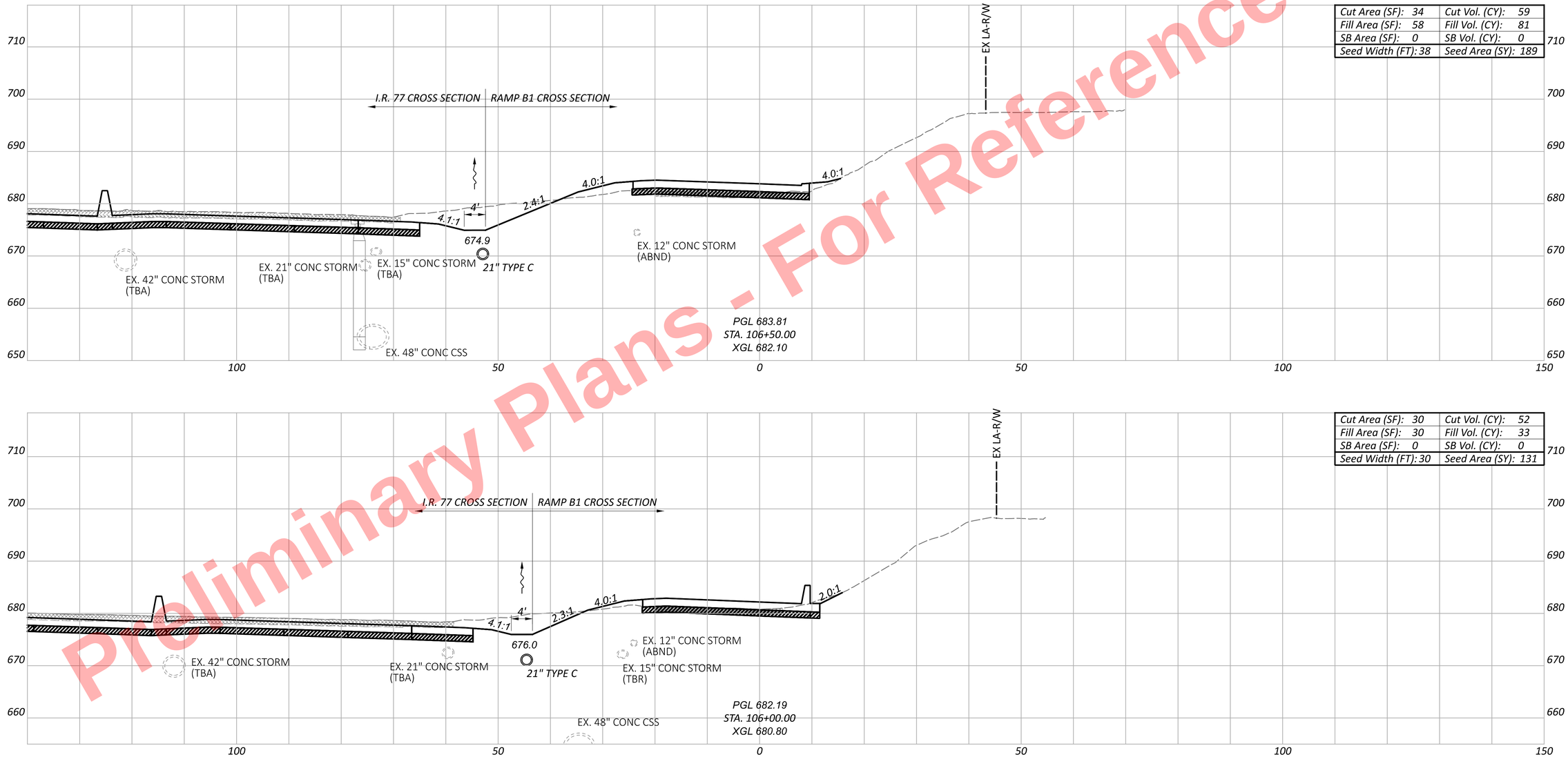
DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.514 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP B1
STA. 106+00.00 TO STA. 106+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
320	111	114	0

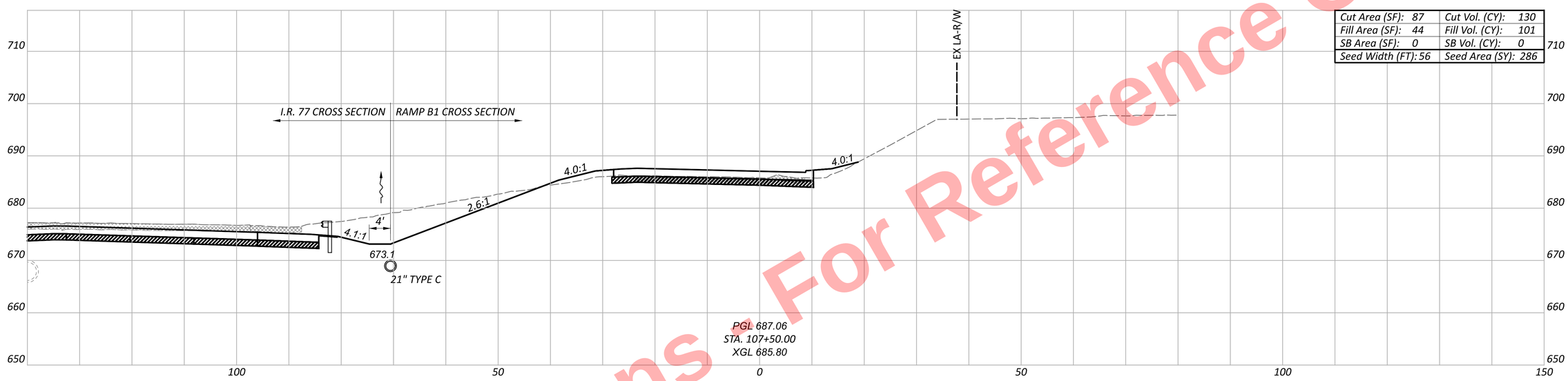
DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.515 TOTAL P.1269

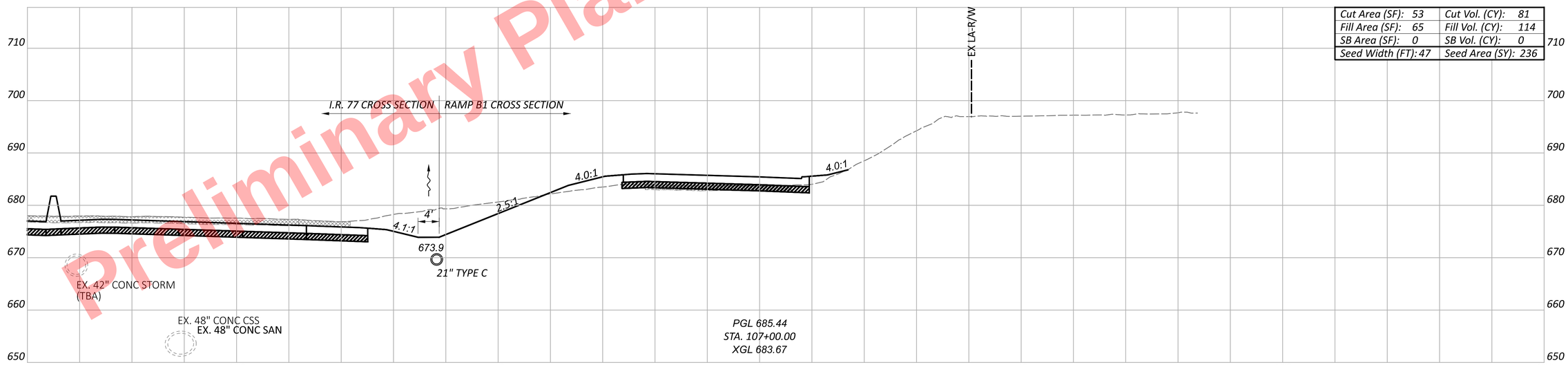
CUY-77-11.41 - PART 1

MODEL: BLP_R043_B1 - 106+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:47:07 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS301.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 87	Cut Vol. (CY): 130
Fill Area (SF): 44	Fill Vol. (CY): 101
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 56	Seed Area (SY): 286



Cut Area (SF): 53	Cut Vol. (CY): 81
Fill Area (SF): 65	Fill Vol. (CY): 114
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 47	Seed Area (SY): 236

Preliminary Plans - Not For Reference Only

CUY-77-11.41 - PART 1

MODEL: BLP_R043_B1 - 107+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:47:09 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS301.dgn

CROSS SECTIONS - RAMP B1
STA. 107+00.00 TO STA. 107+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

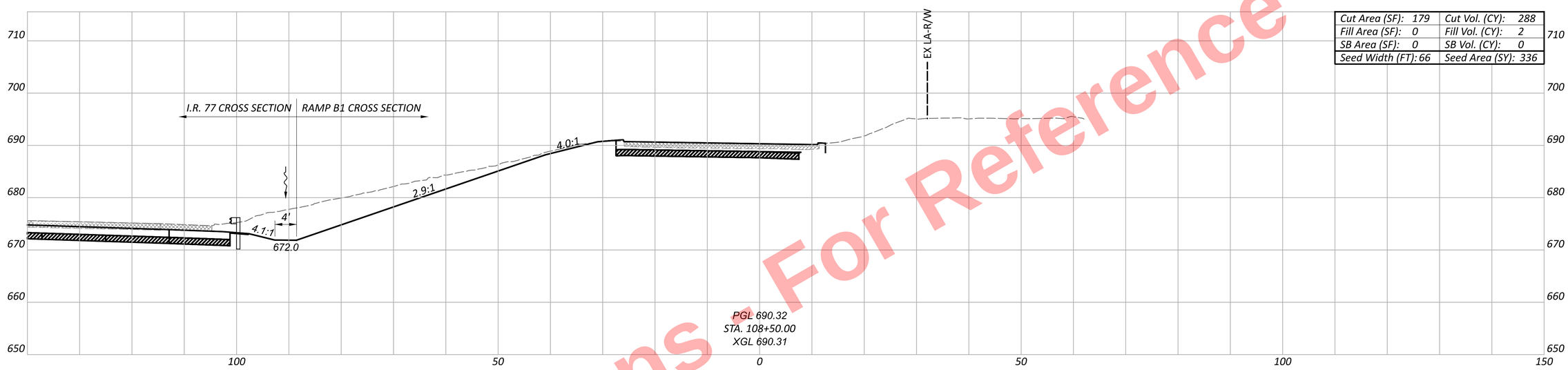
REVIEWER
MTR 04/01/22

PROJECT ID
105743

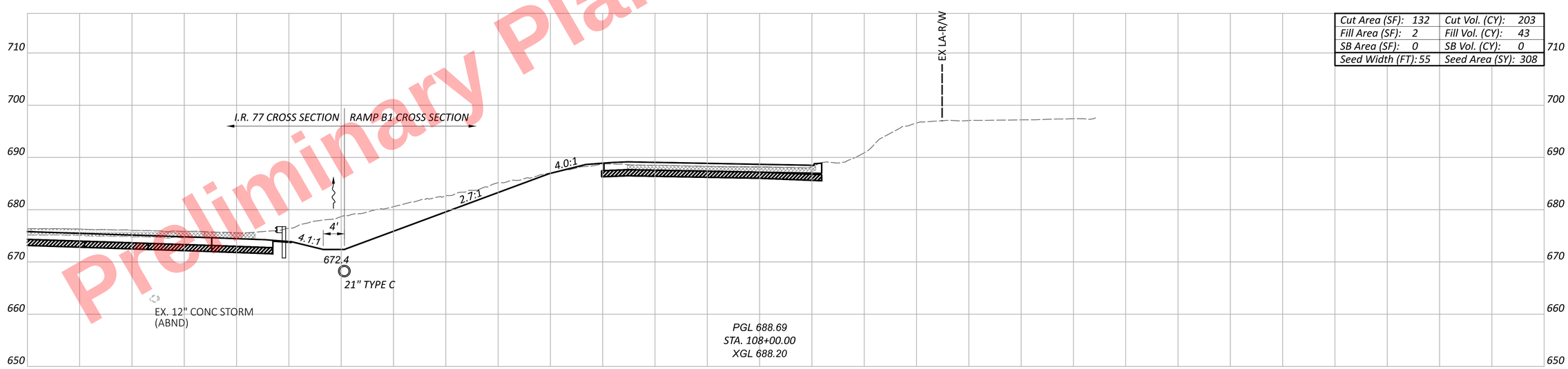
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
522	211	215	0

SHEET P.516 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 179	Cut Vol. (CY): 288
Fill Area (SF): 0	Fill Vol. (CY): 2
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 66	Seed Area (SY): 336



Cut Area (SF): 132	Cut Vol. (CY): 203
Fill Area (SF): 2	Fill Vol. (CY): 43
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 55	Seed Area (SY): 308

Preliminary Plans - Not For Reference Only

CROSS SECTIONS - RAMP B1
STA. 108+00.00 TO STA. 108+50.00

DESIGN AGENCY
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PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
644	491	45	0

SHEET P.517 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R043_B1 - 108+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:47:11 AM USER: kperkins
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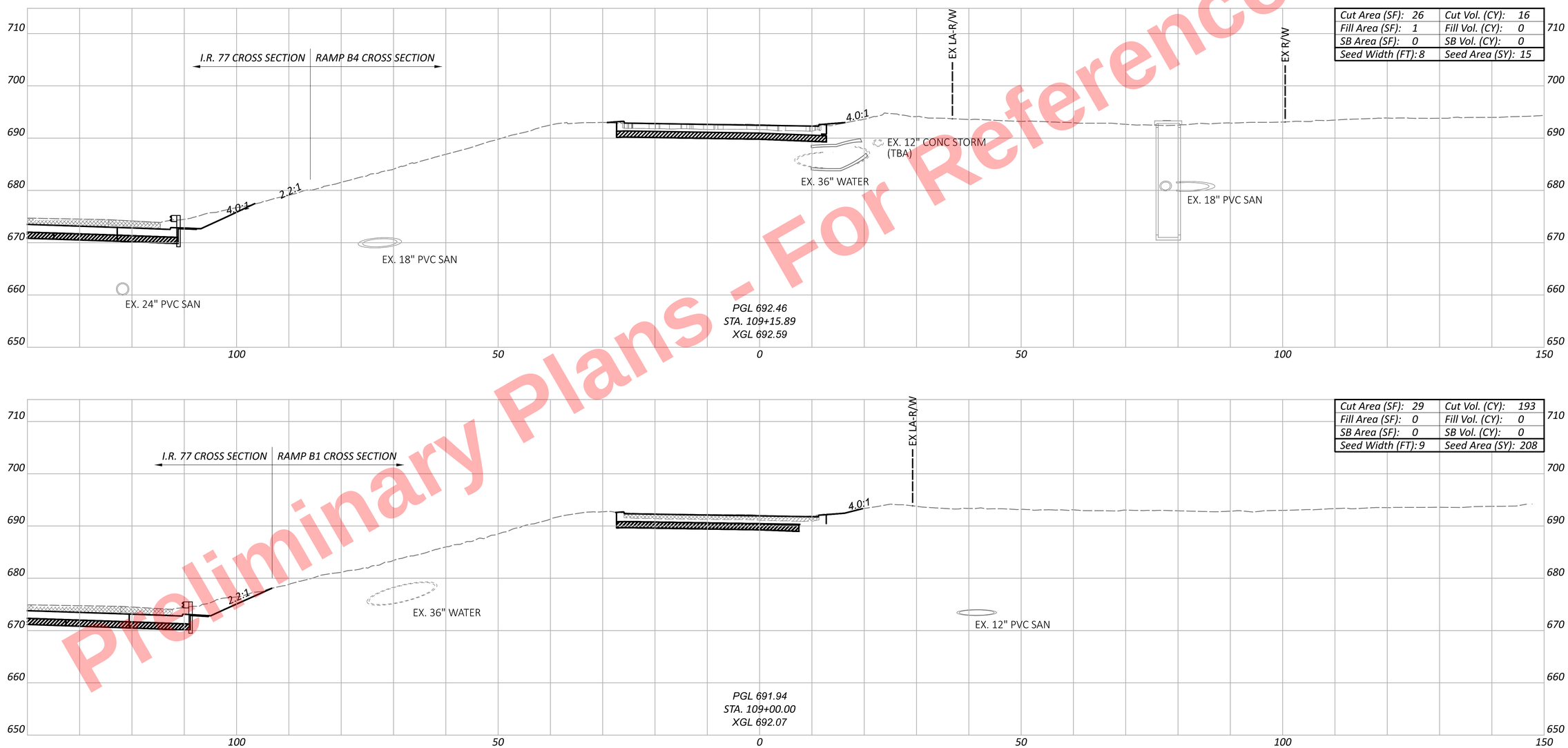
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 26	Cut Vol. (CY): 16
Fill Area (SF): 1	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 8	Seed Area (SY): 15

Cut Area (SF): 29	Cut Vol. (CY): 193
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 9	Seed Area (SY): 208

Preliminary Plans - For Reference Only

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
223	209	0	0

CROSS SECTIONS - RAMP B1
109+00.00 TO END WORK

DESIGN AGENCY
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PROJECT ID
105743

SHEET P.518 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R043_B1 - 109+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:47:14 AM USER: kperkins
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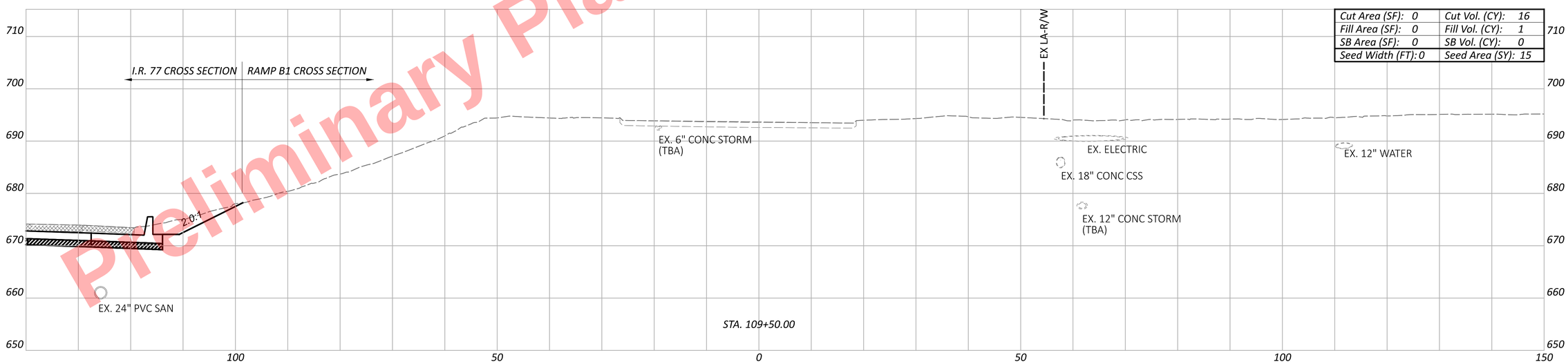
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF): 0	*Cut Vol. (CY): 16*
Fill Area (SF): 0	*Fill Vol. (CY): 1*
SB Area (SF): 0	*SB Vol. (CY): 0*
Seed Width (FT): 0	*Seed Area (SY): 15*

CROSS SECTIONS - RAMP B1
STA. 109+50.00

DESIGN AGENCY
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PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
15	16	1	0

SHEET P.519 | TOTAL P.1269

CUY-77-11.41 - PART 1

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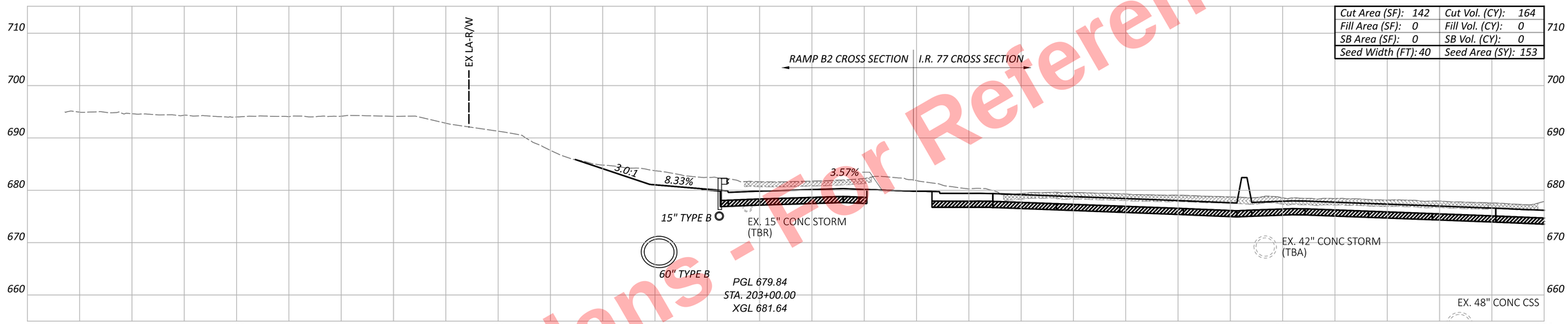
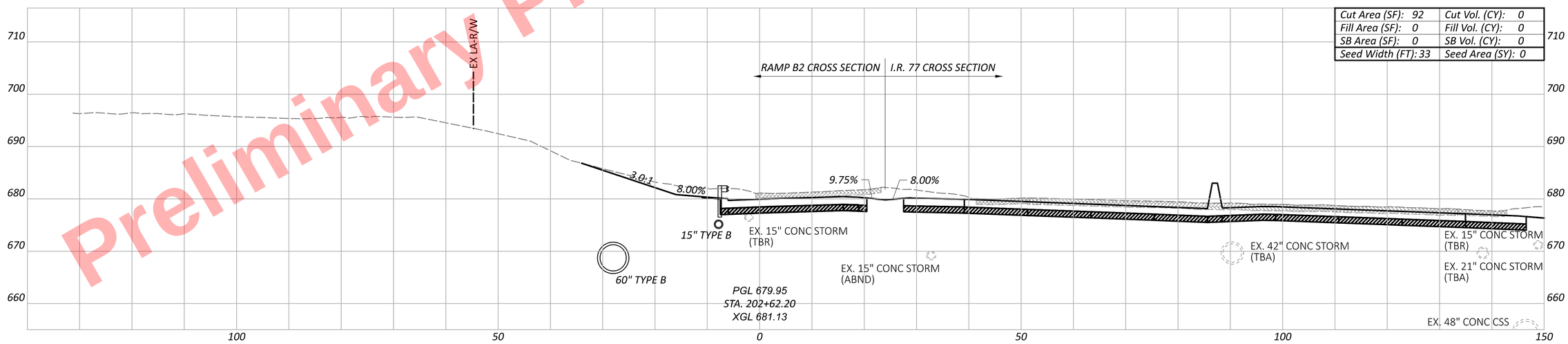
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	142	Cut Vol. (CY):	164
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	40	Seed Area (SY):	153



Cut Area (SF):	92	Cut Vol. (CY):	0
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	33	Seed Area (SY):	0

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: BLP_R043_B2 - 202+62.20 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:47:18 AM USER: kperkins
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CROSS SECTIONS - RAMP B2
PHYSICAL GORE TO STA. 203+00.00

DESIGN AGENCY
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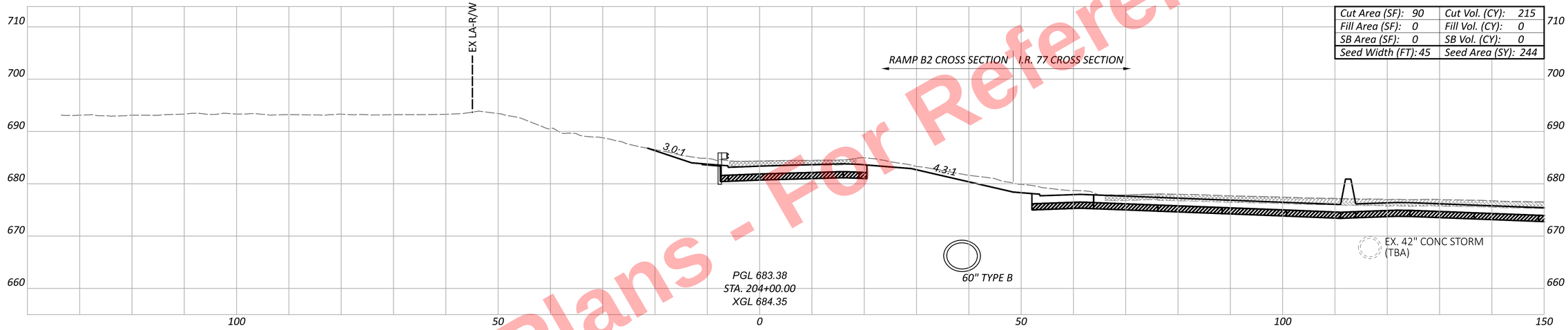
MTR 04/01/22

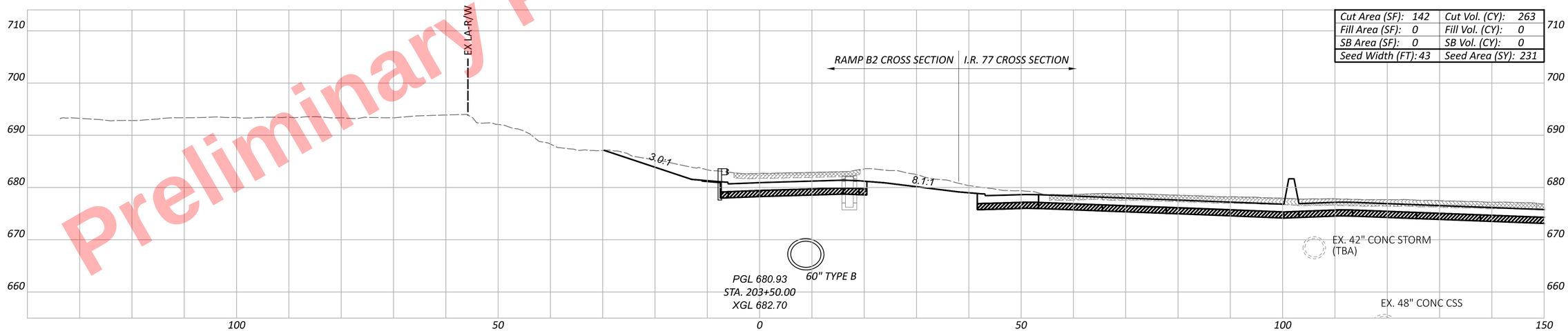
PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
153	164	0	0

SHEET	TOTAL
P.520	P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP B2
STA. 203+50.00 TO STA. 204+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
475	478	0	0

DESIGN AGENCY
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PROJECT ID
105743

SHEET P.521 TOTAL P.1269

CUY-77-11.41 - PART 1

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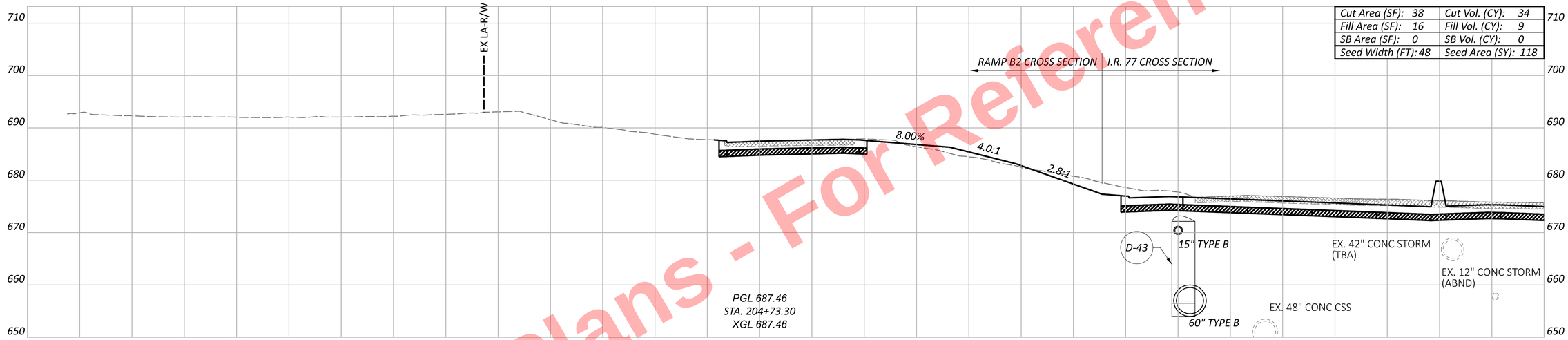
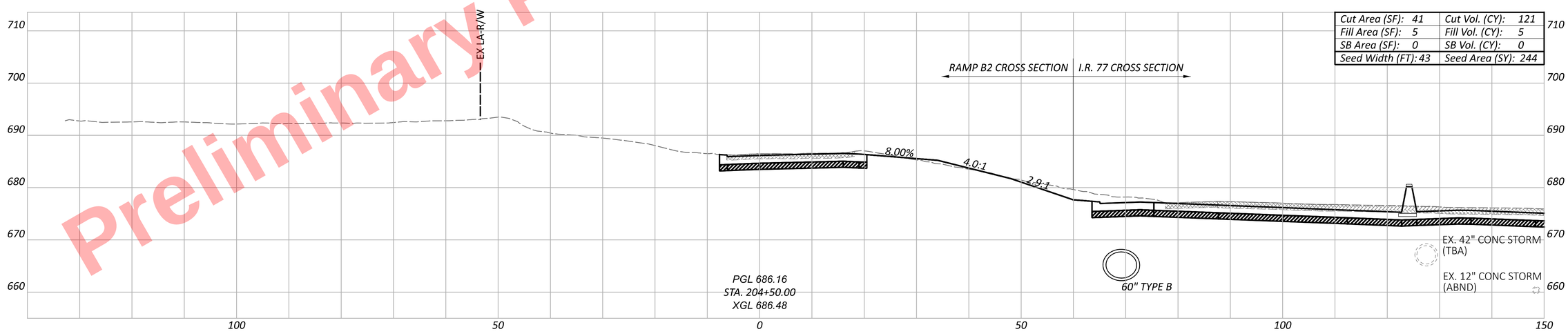
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	38	Cut Vol. (CY):	34
Fill Area (SF):	16	Fill Vol. (CY):	9
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	48	Seed Area (SY):	118



Cut Area (SF):	41	Cut Vol. (CY):	121
Fill Area (SF):	5	Fill Vol. (CY):	5
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	43	Seed Area (SY):	244

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: BLP_R043_B2 - 204+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:47:23 AM USER: kperkins
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CROSS SECTIONS - RAMP B2
STA. 204+50.00 TO END WORK

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
362	155	14	0

DESIGN AGENCY
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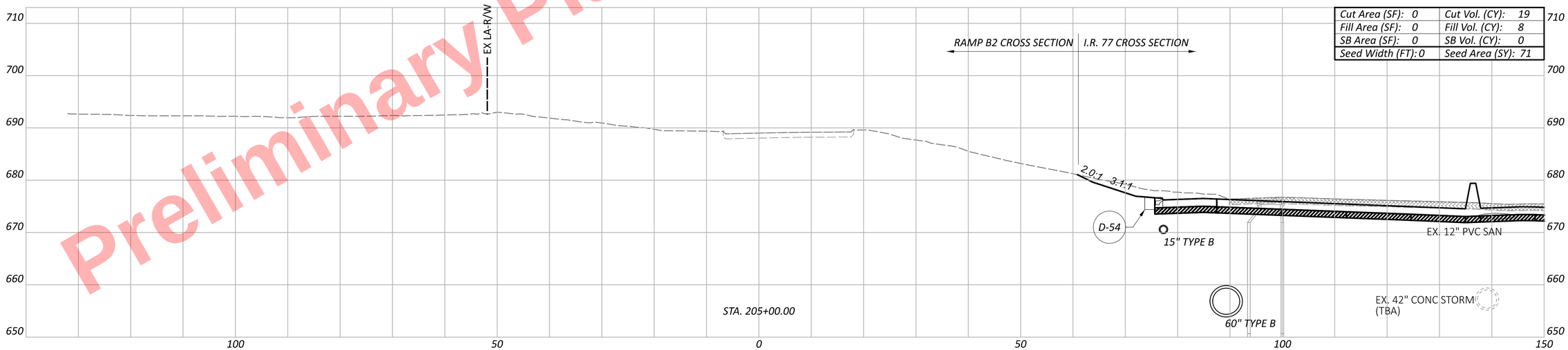
PROJECT ID
105743

SHEET P.522 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF): 0	Cut Vol. (CY): 19		
Fill Area (SF): 0	Fill Vol. (CY): 8		
SB Area (SF): 0	SB Vol. (CY): 0		
Seed Width (FT): 0	Seed Area (SY): 71		

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
71	19	8	0

CROSS SECTIONS - RAMP B2
STA. 205+00.00

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PROJECT ID
105743

SHEET P.523 | TOTAL P.1269

CUY-77-11.41 - PART 1

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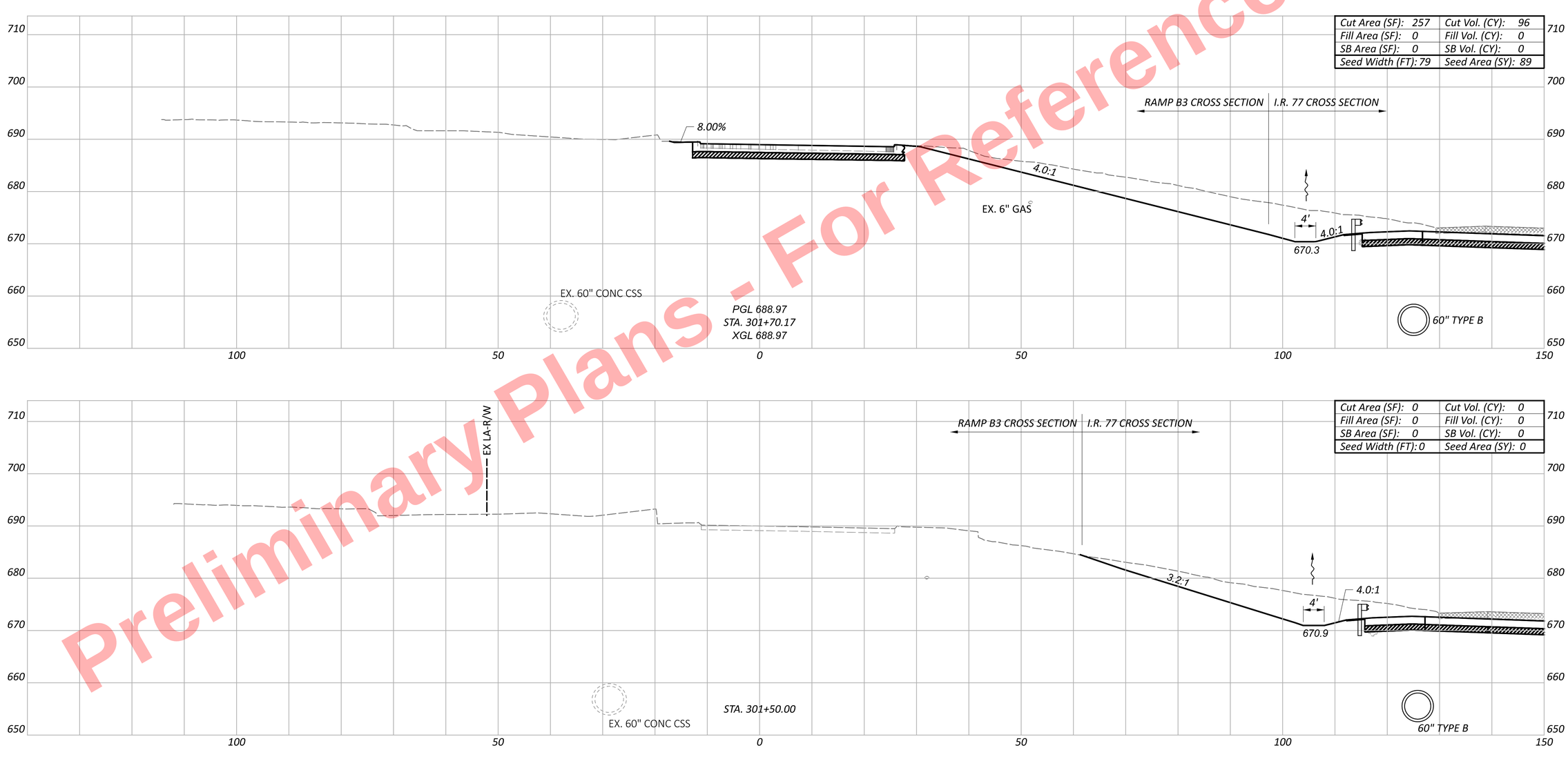
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP B3
STA. 301+50.00 TO BEGIN WORK

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
89	96	0	0

DESIGN AGENCY
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MTR 04/01/22

PROJECT ID
105743

SHEET P.524 TOTAL P.1269

CUY-77-11.41 - PART 1

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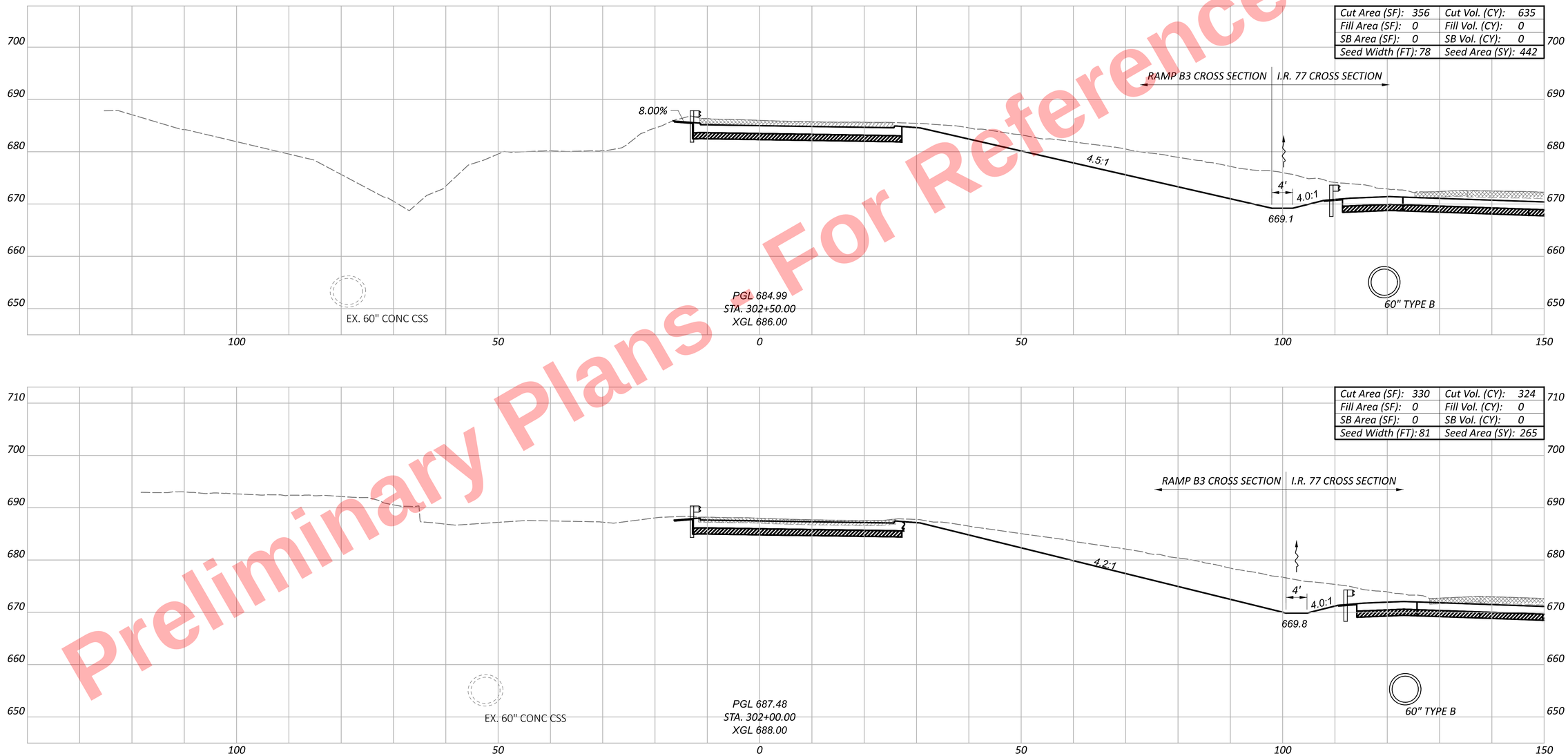
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP B3
STA. 302+00.00 TO STA. 302+50.00

DESIGN AGENCY
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MTR 04/01/22

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
707	959	0	0

SHEET P.525 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R043_B3 - 302+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:47:29 AM USER: kperkins
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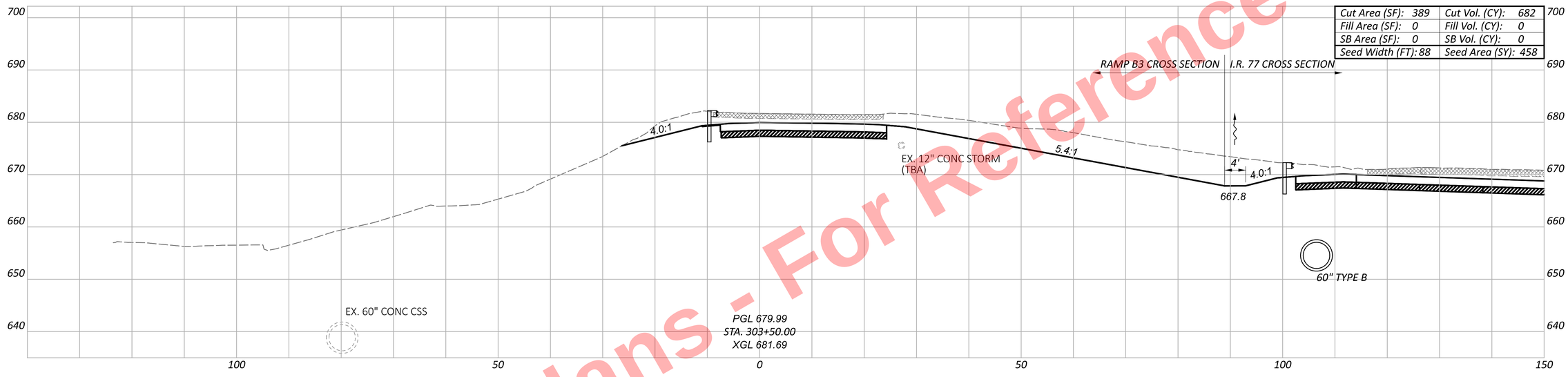
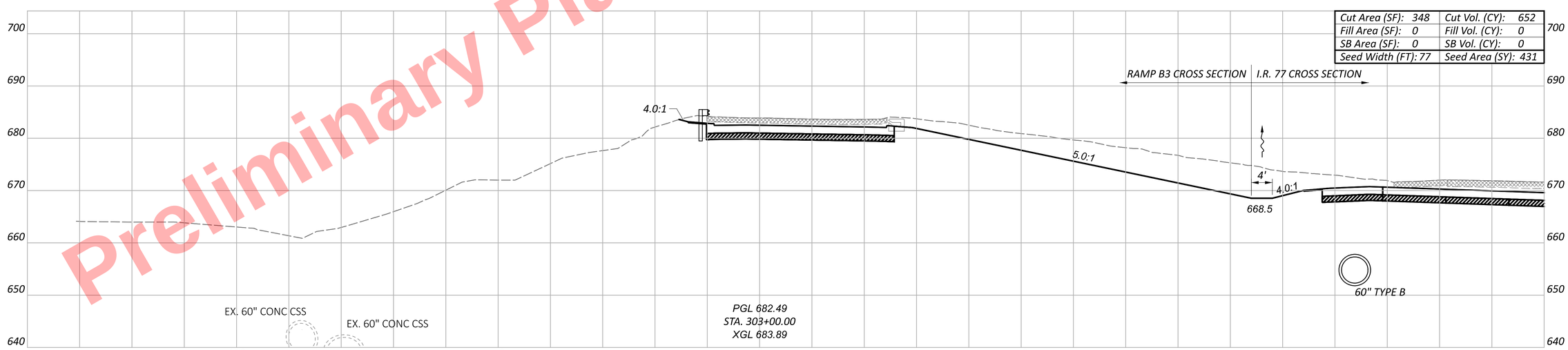
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	389	Cut Vol. (CY):	682
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	88	Seed Area (SY):	458



Cut Area (SF):	348	Cut Vol. (CY):	652
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	77	Seed Area (SY):	431

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: BLP_R043_B3 - 303+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:47:31 AM USER: kperkins
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CROSS SECTIONS - RAMP B3
STA. 303+00.00 TO STA. 303+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
889	1334	0	0

DESIGN AGENCY
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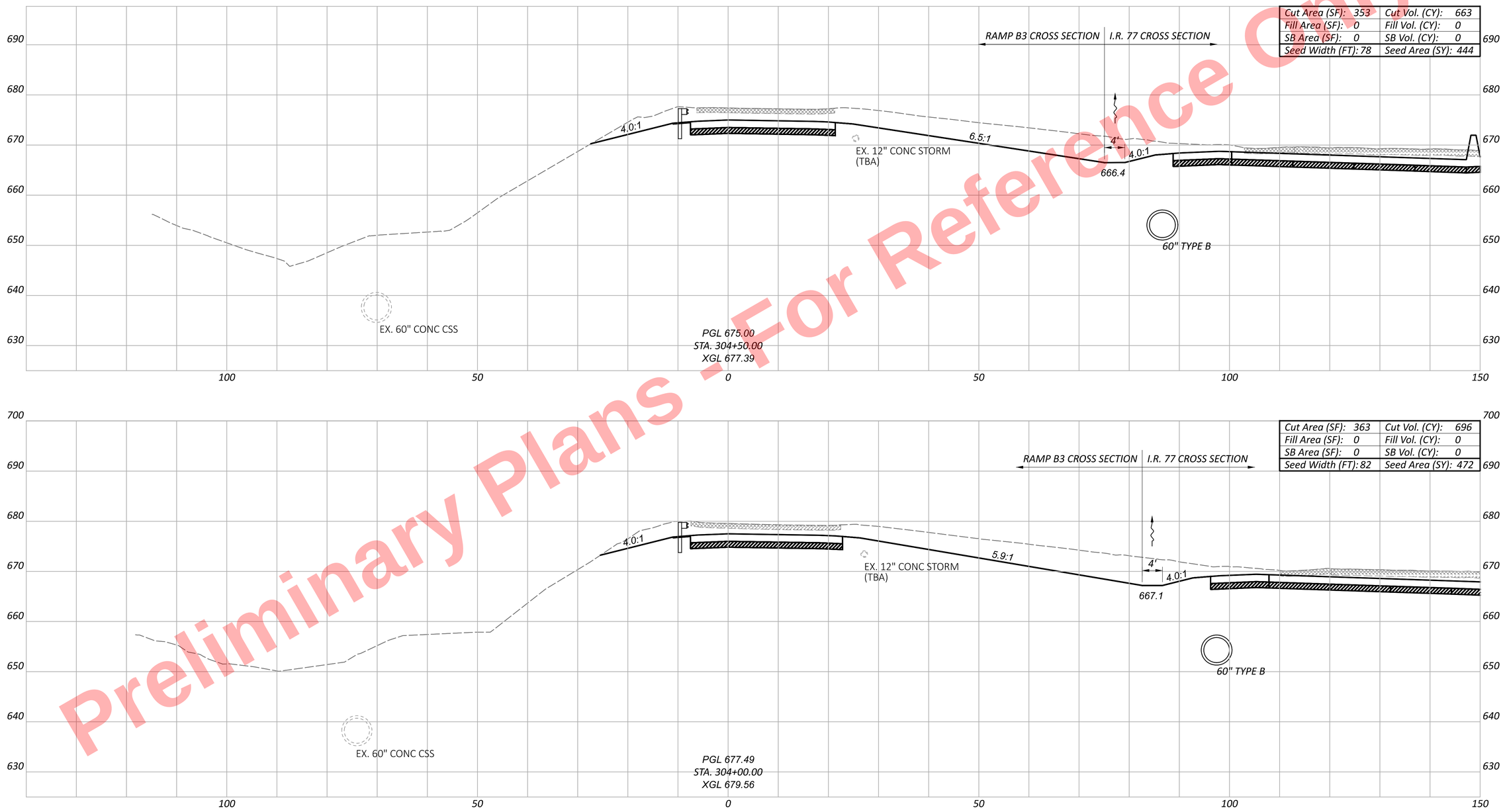
MTR 04/01/22

PROJECT ID
105743

SHEET P.526 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP B3
STA. 304+00.00 TO STA. 304+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
916	1359	0	0

DESIGN AGENCY
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PROJECT ID
105743

SHEET P.527 TOTAL P.1269

CUY-77-11.41 - PART 1

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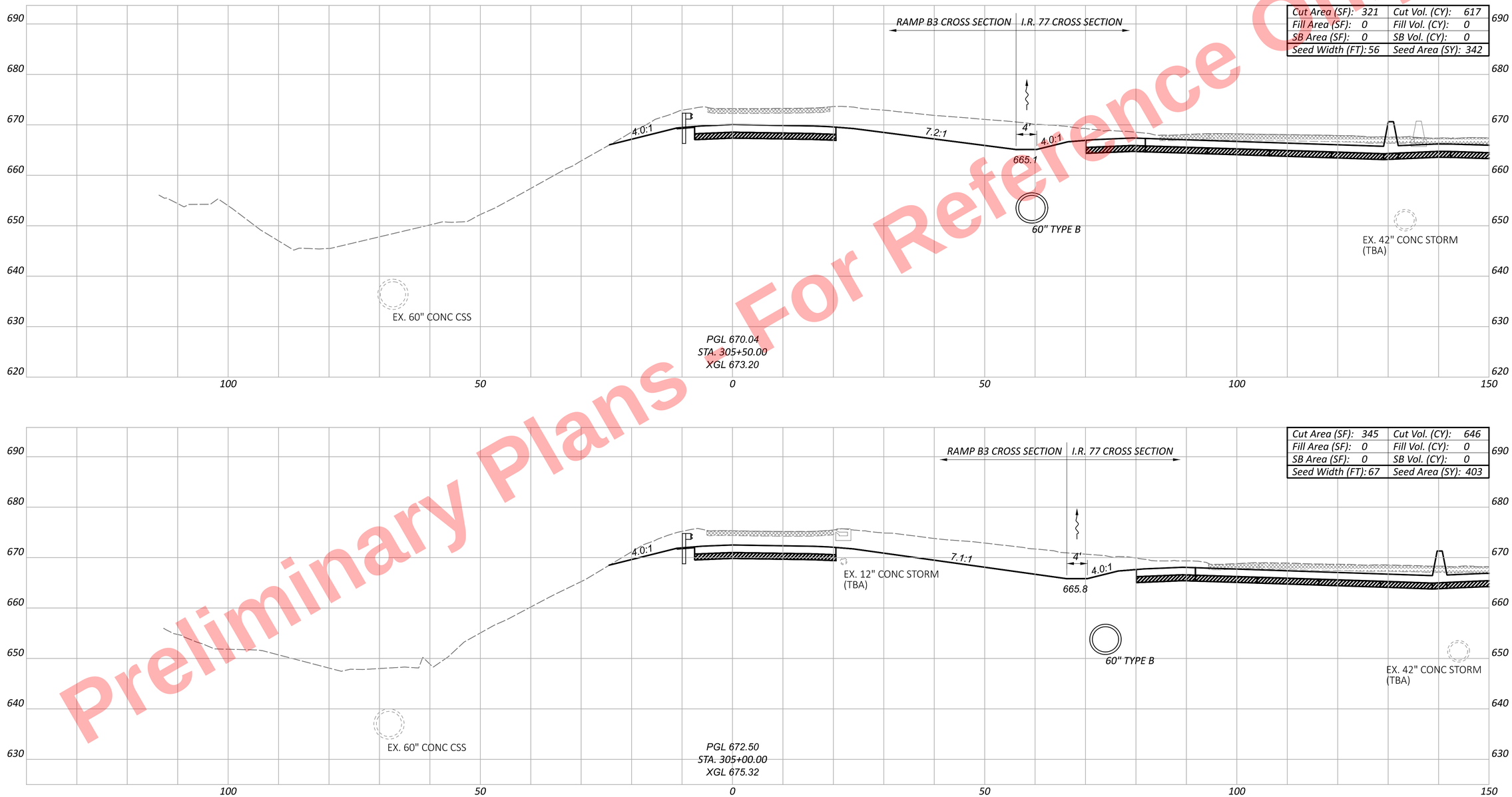
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	321	Cut Vol. (CY):	617
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	56	Seed Area (SY):	342

Cut Area (SF):	345	Cut Vol. (CY):	646
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	67	Seed Area (SY):	403

Preliminary Plans For Reference Only

CROSS SECTIONS - RAMP B3
STA. 305+00.00 TO STA. 305+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
745	1263	0	0

DESIGN AGENCY
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DESIGNER AS
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.528 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R043_B3 - 305+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:47:36 AM USER: kperkins
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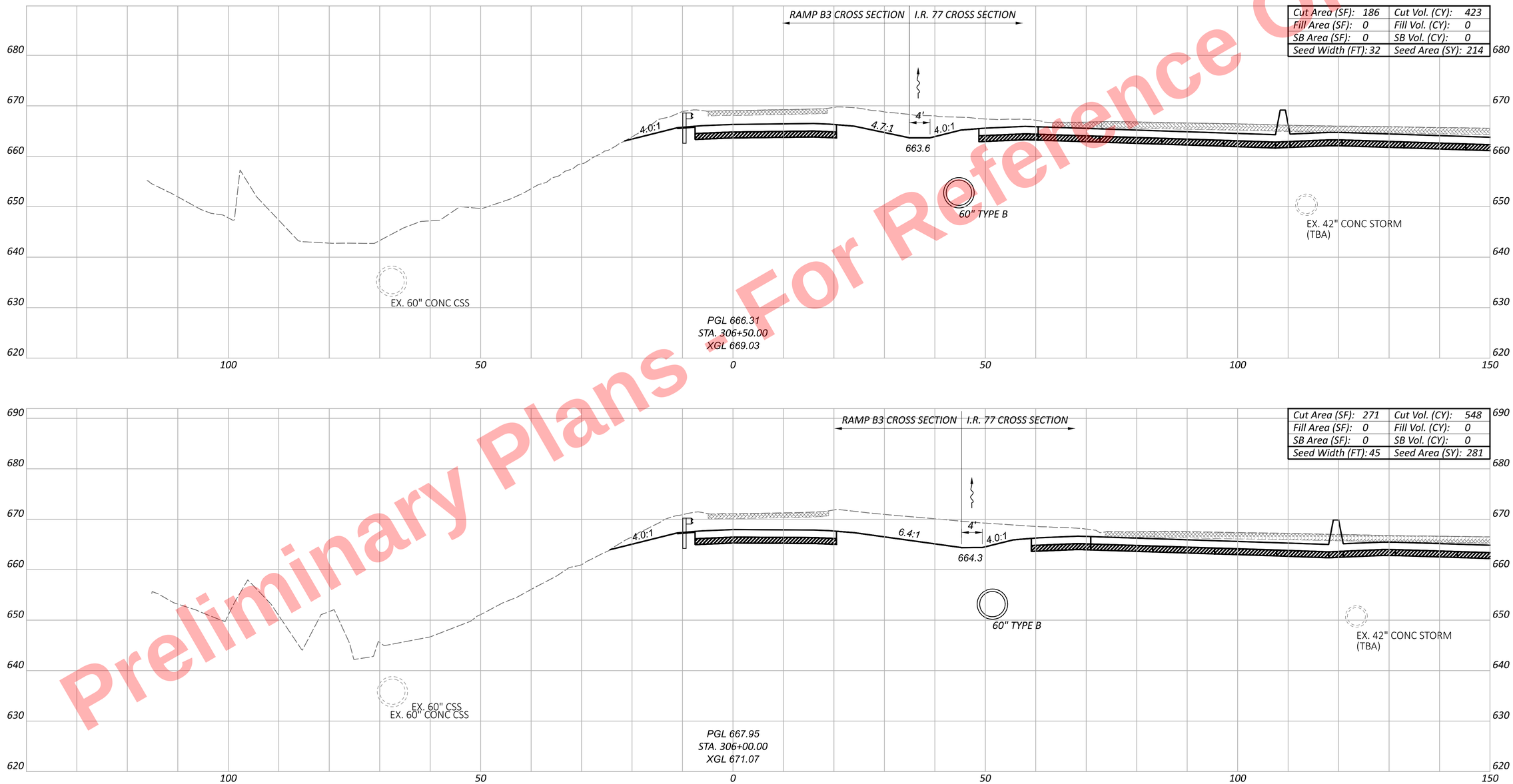
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP B3
STA. 306+00.00 TO STA. 306+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
495	971	0	0

DESIGN AGENCY
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DESIGNER AS
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.529 TOTAL P.1269

CUY-77-11.41 - PART 1

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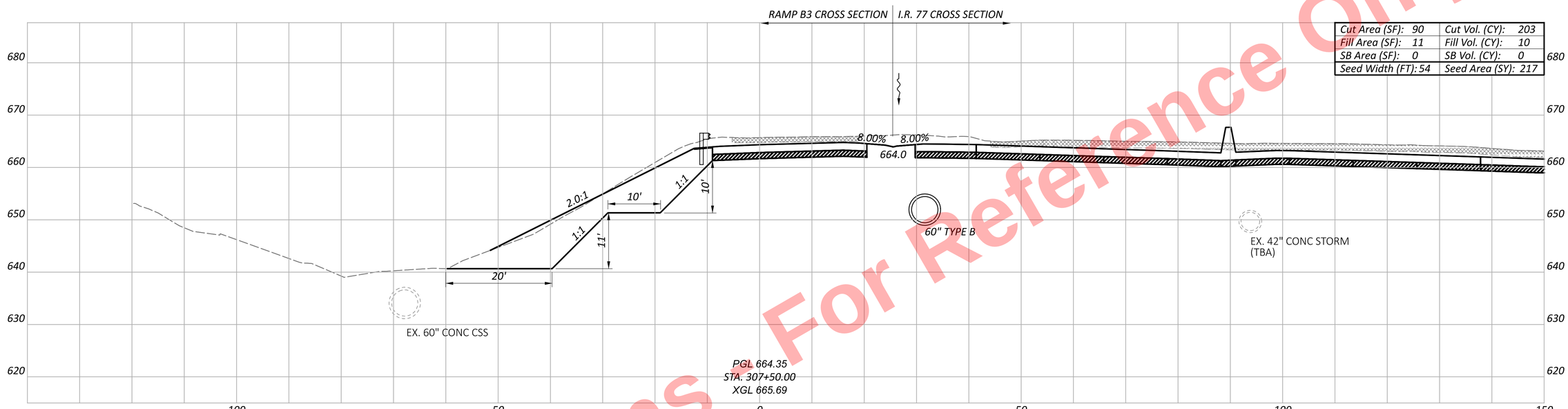
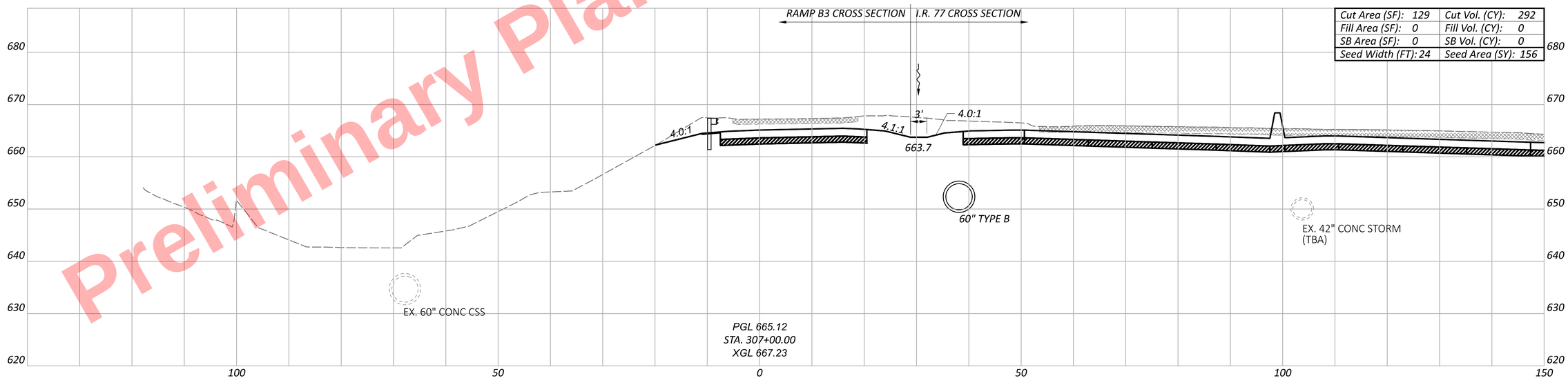
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP B3
STA. 307+00.00 TO STA. 307+50.00

CUY-77-11.41 - PART 1

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DESIGN AGENCY
HNTB

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REVIEWER
MTR 04/01/22

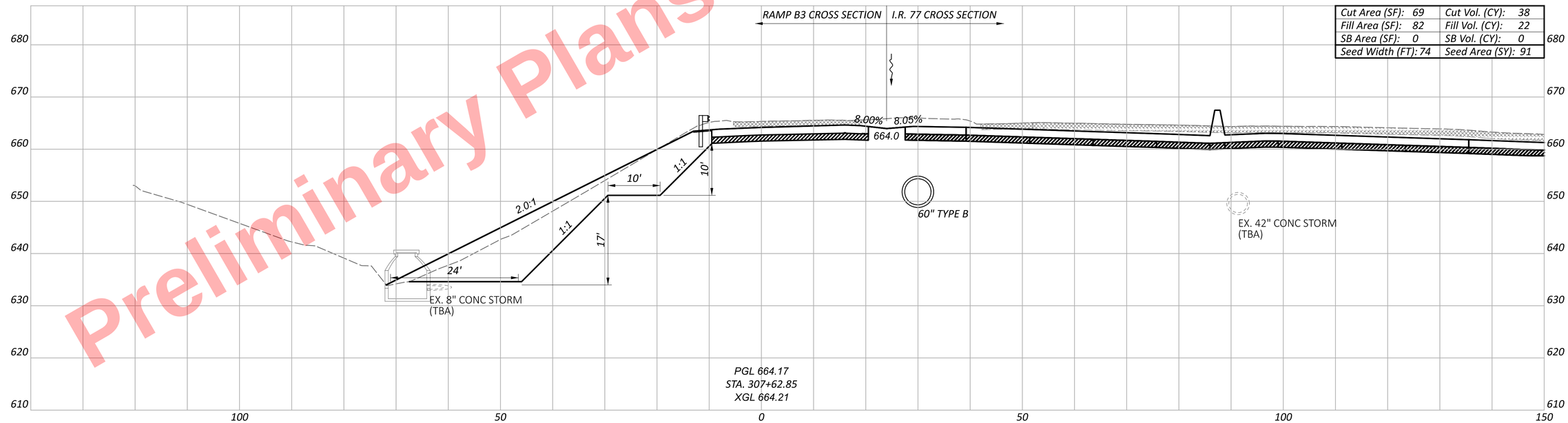
PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
373	495	10	0

SHEET P.530 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
91	38	22	0

CROSS SECTIONS - RAMP B3
PHYSICAL GORE

DESIGN AGENCY
HNTB

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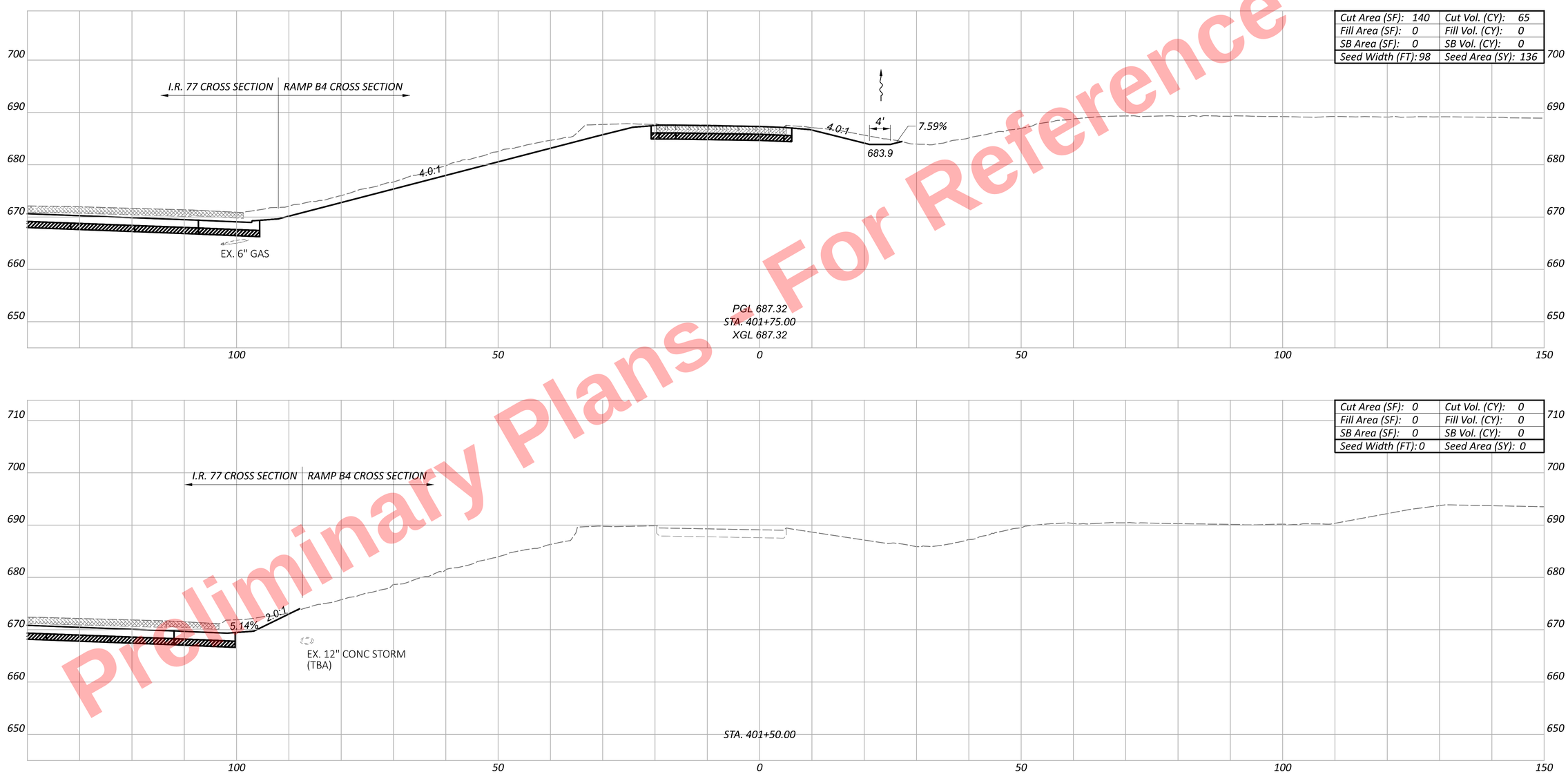
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.531 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R043_B3 - 307+62.85 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:48:08 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\v400-Engineering\Engineering\Roadway\Sheets\105743_XS301.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 140	Cut Vol. (CY): 65
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 98	Seed Area (SY): 136

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 0	Seed Area (SY): 0

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: BLP_R043_B4 - 401+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:48:10 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS301.dgn

CROSS SECTIONS - RAMP B4
STA. 401+50.00 TO BEGIN WORK

DESIGN AGENCY
HNTB

DESIGNER
AS

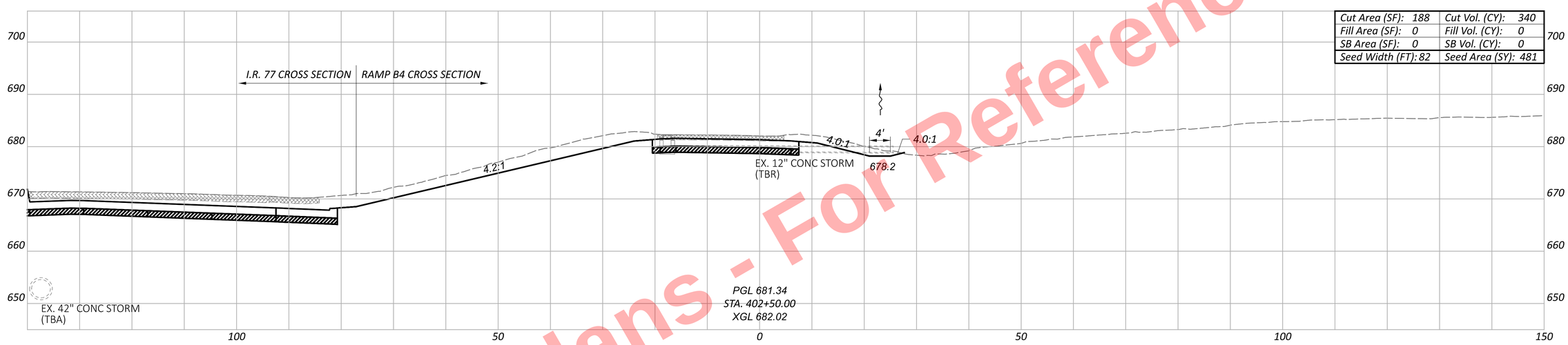
REVIEWER
MTR 04/01/22

PROJECT ID
105743

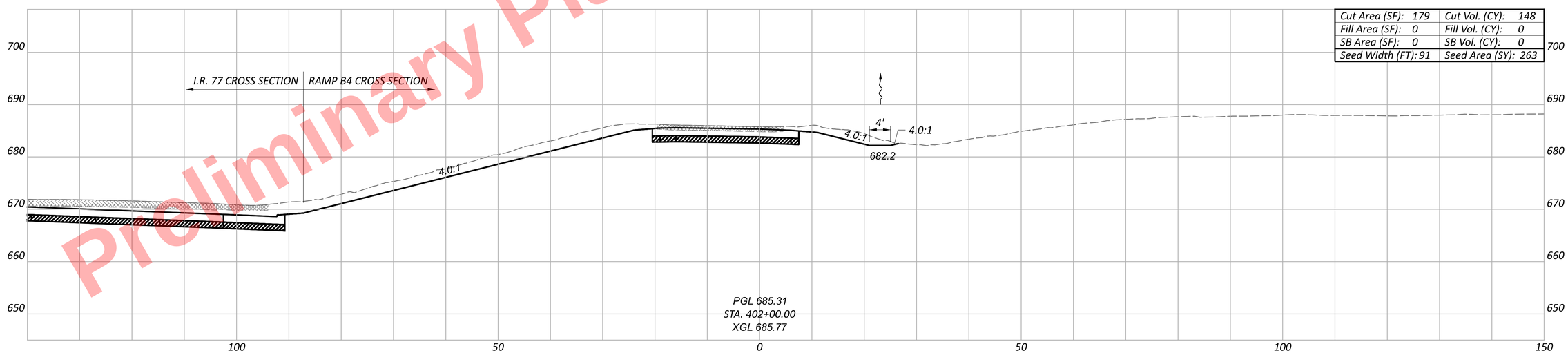
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
136	65	0	0

SHEET	TOTAL
P.532	P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 188	Cut Vol. (CY): 340
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 82	Seed Area (SY): 481



Cut Area (SF): 179	Cut Vol. (CY): 148
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 91	Seed Area (SY): 263

Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP B4
STA. 402+00.00 TO STA. 402+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
744	488	0	0

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.533 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R043_B4 - 402+00.00 |Sheet| PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:48:12 AM USER: kperkins
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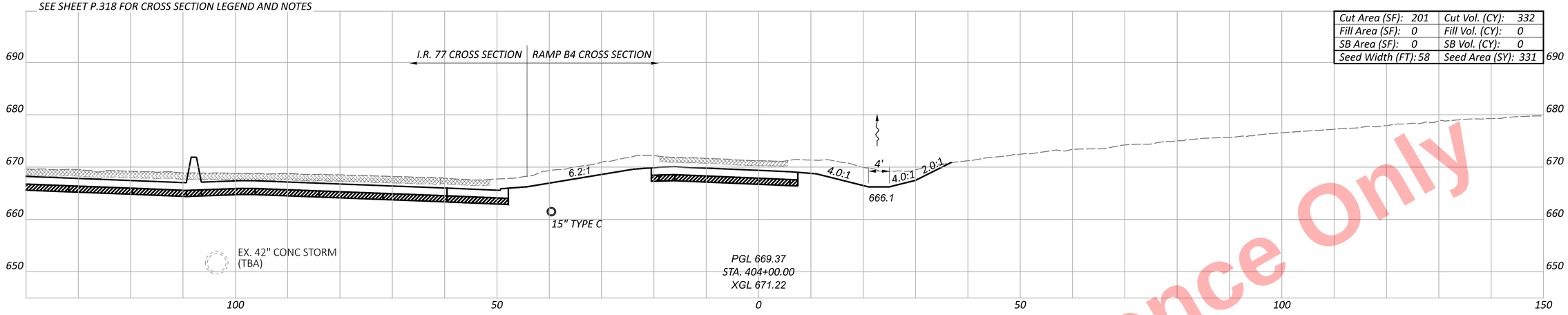
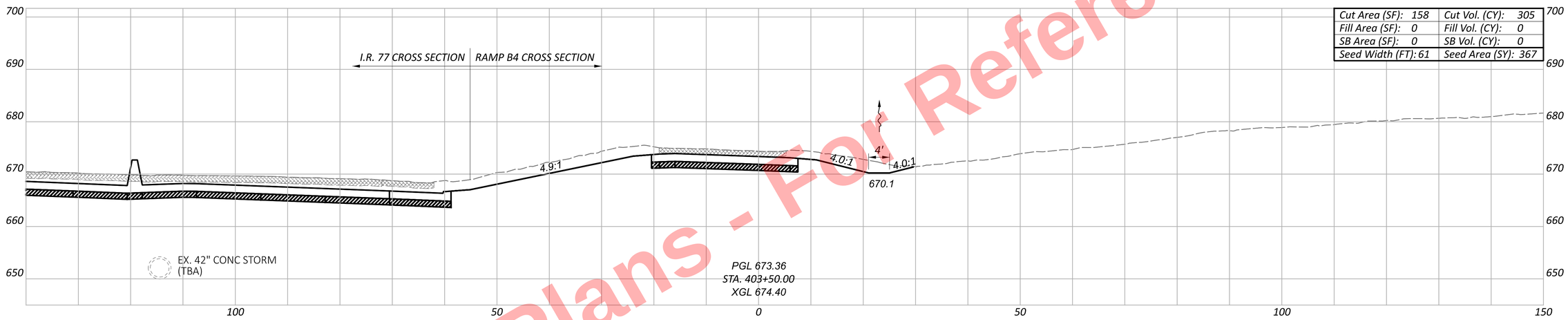
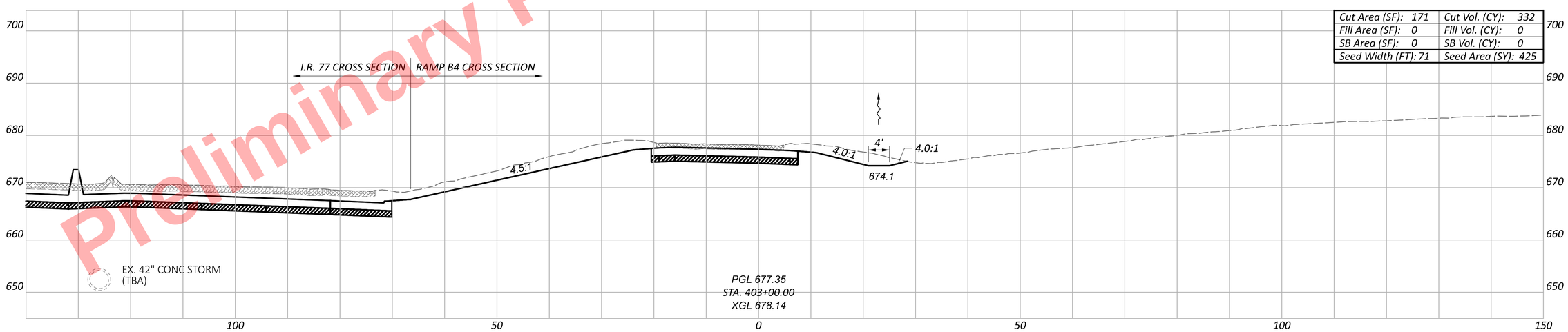
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	201	Cut Vol. (CY):	332
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	58	Seed Area (SY):	331



Cut Area (SF):	158	Cut Vol. (CY):	305
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	61	Seed Area (SY):	367



Cut Area (SF):	171	Cut Vol. (CY):	332
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	71	Seed Area (SY):	425

Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP B4
STA. 403+00.00 TO STA. 404+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1123	969	0	0

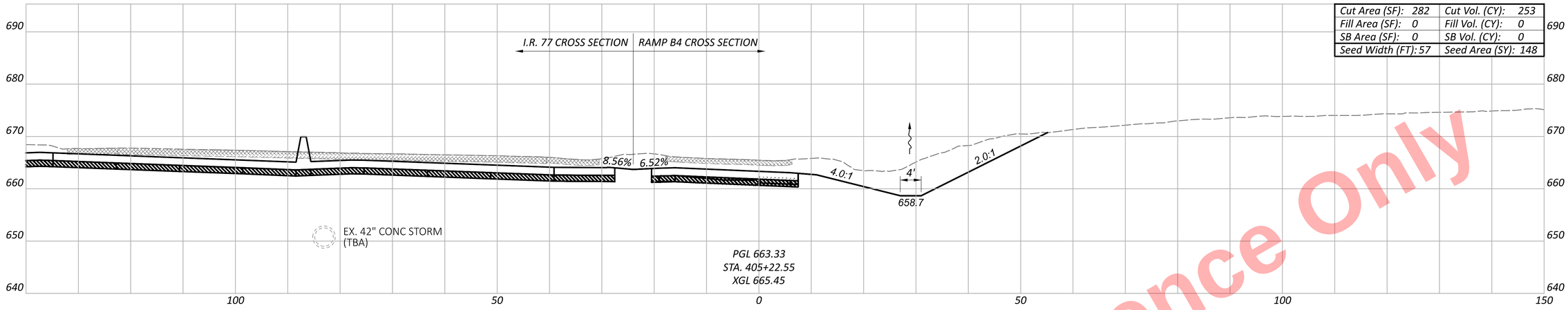
DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.534 TOTAL P.1269

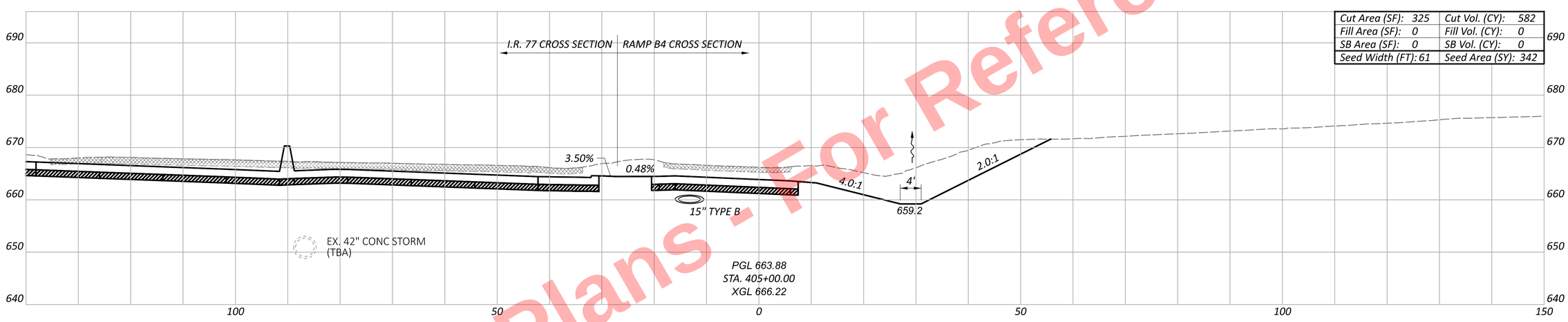
CUY-77-11.41 - PART 1

MODEL: BLP_R043_B4 - 403+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:48:14 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS301.dgn

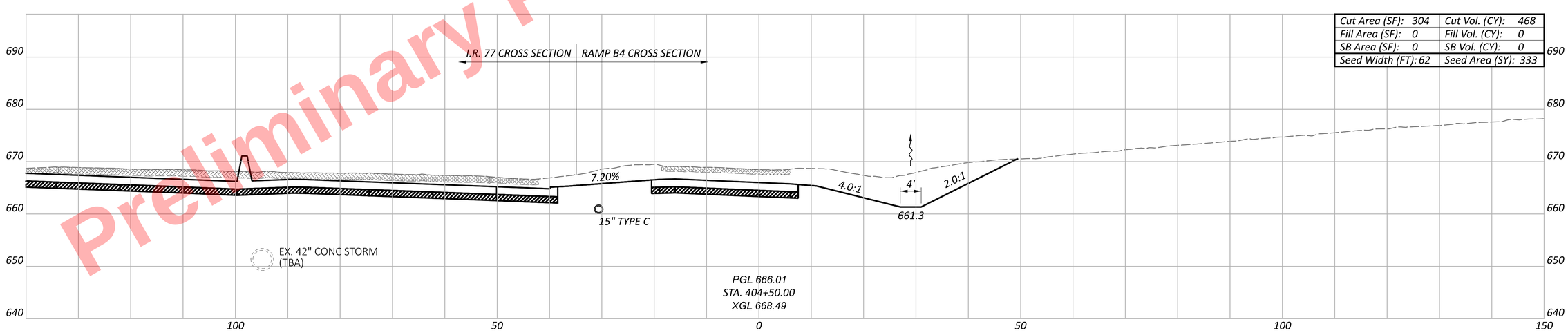
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	282	Cut Vol. (CY):	253
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	57	Seed Area (SY):	148



Cut Area (SF):	325	Cut Vol. (CY):	582
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	61	Seed Area (SY):	342



Cut Area (SF):	304	Cut Vol. (CY):	468
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	62	Seed Area (SY):	333

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: BLP_R043_B4 - 404+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:48:18 AM USER: kperkins
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CROSS SECTIONS - RAMP B4
STA. 404+50.00 TO PHYSICAL GORE

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
823	1303	0	0

DESIGN AGENCY
HNTB

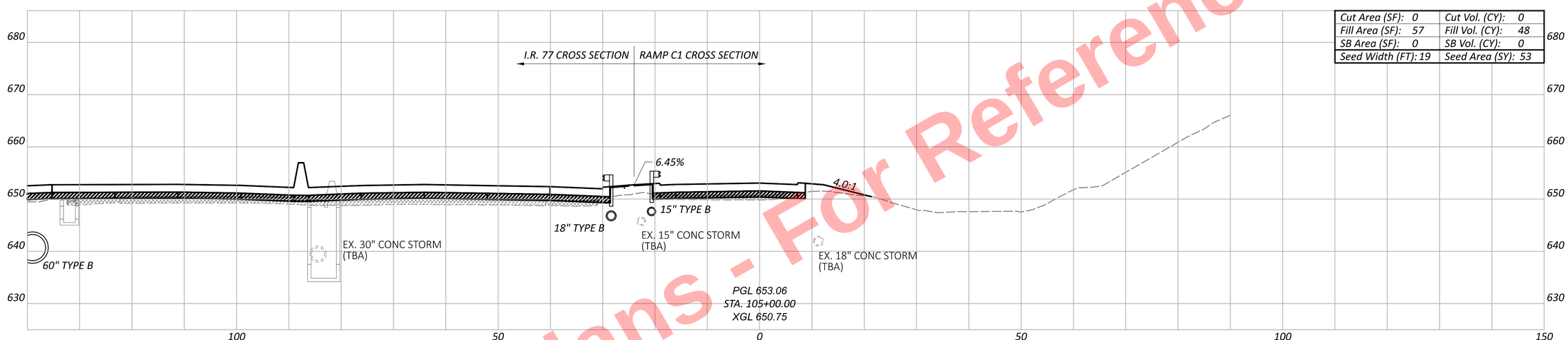
DESIGNER
AS

REVIEWER
MTR 04/01/22

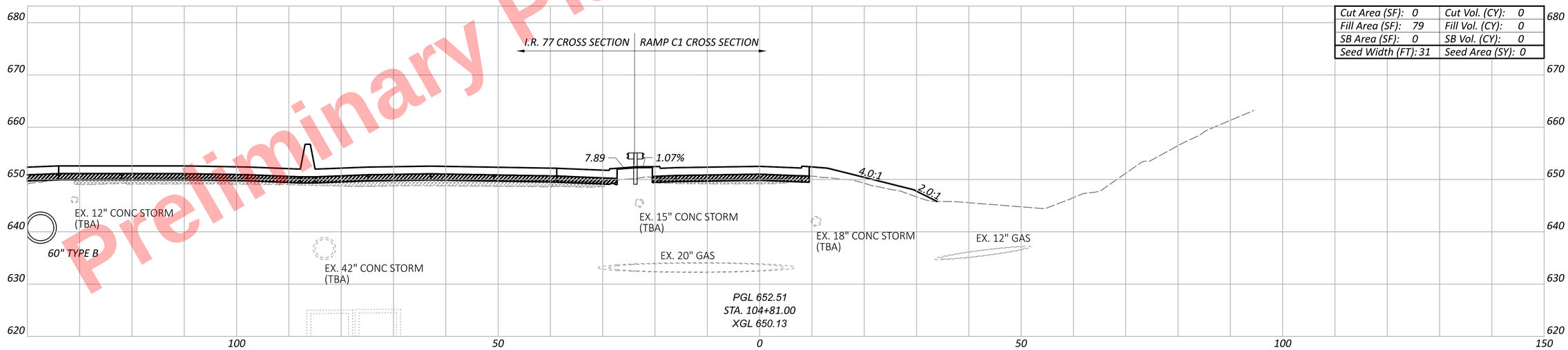
PROJECT ID
105743

SHEET P.535 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 57	Fill Vol. (CY): 48
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 19	Seed Area (SY): 53



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 79	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 31	Seed Area (SY): 0

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: BLP_R743_C1 - 104+81.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:48:35 AM USER: kperkins
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CROSS SECTIONS - RAMP C1
PHYSICAL GORE TO STA. 105+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

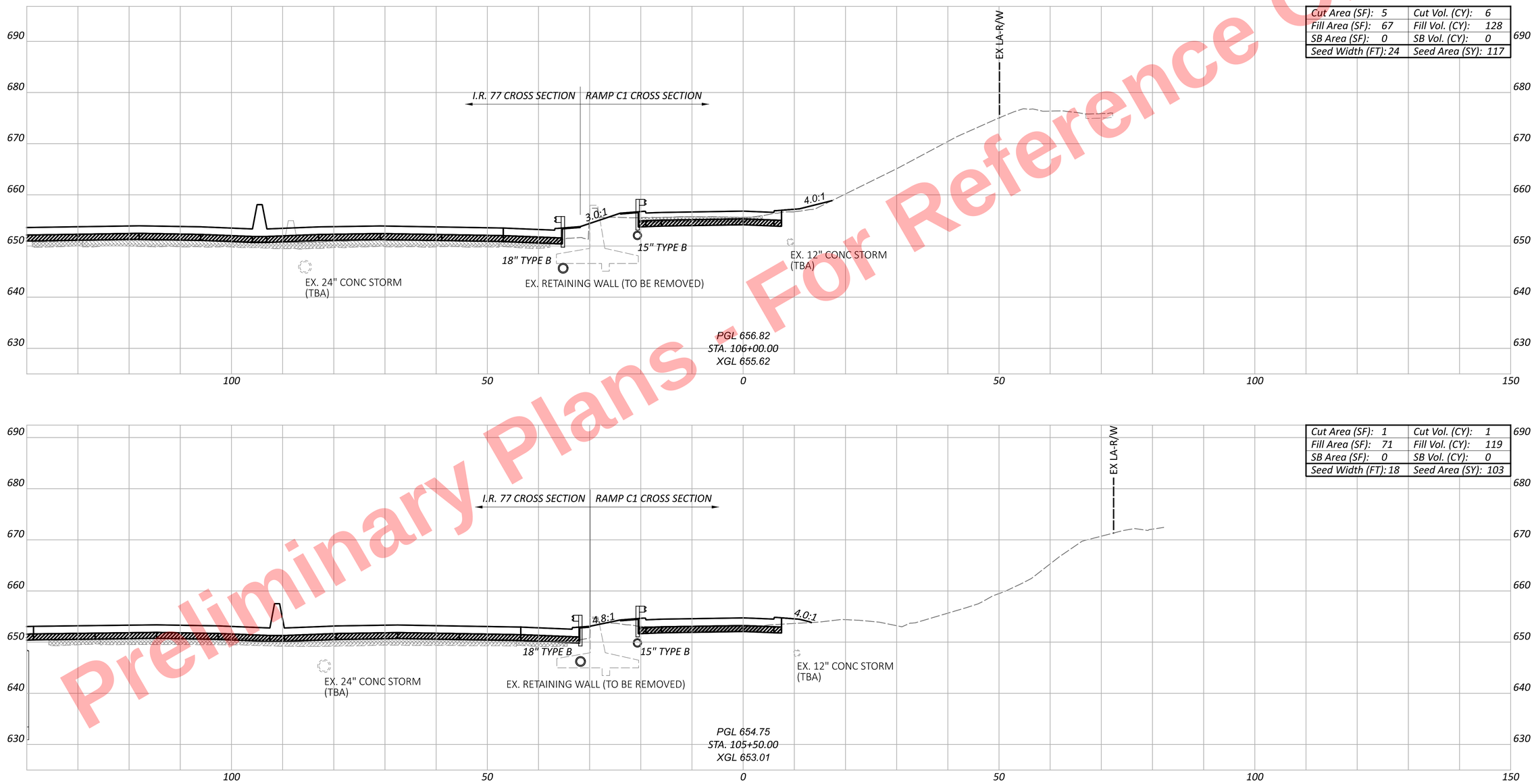
REVIEWER
MTR 04/01/22

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
53	0	48	0

SHEET P.536 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 5	Cut Vol. (CY): 6	Cut Area (SF): 1	Cut Vol. (CY): 1
Fill Area (SF): 67	Fill Vol. (CY): 128	Fill Area (SF): 71	Fill Vol. (CY): 119
SB Area (SF): 0	SB Vol. (CY): 0	SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 24	Seed Area (SY): 117	Seed Width (FT): 18	Seed Area (SY): 103

Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP C1
STA. 105+50.00 TO STA. 106+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
220	7	247	0

DESIGN AGENCY: HNTB
DESIGNER: AS
REVIEWER: MTR 04/01/22
PROJECT ID: 105743
SHEET: P.537 TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R743_C1 - 105+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:48:38 AM USER: kperkins
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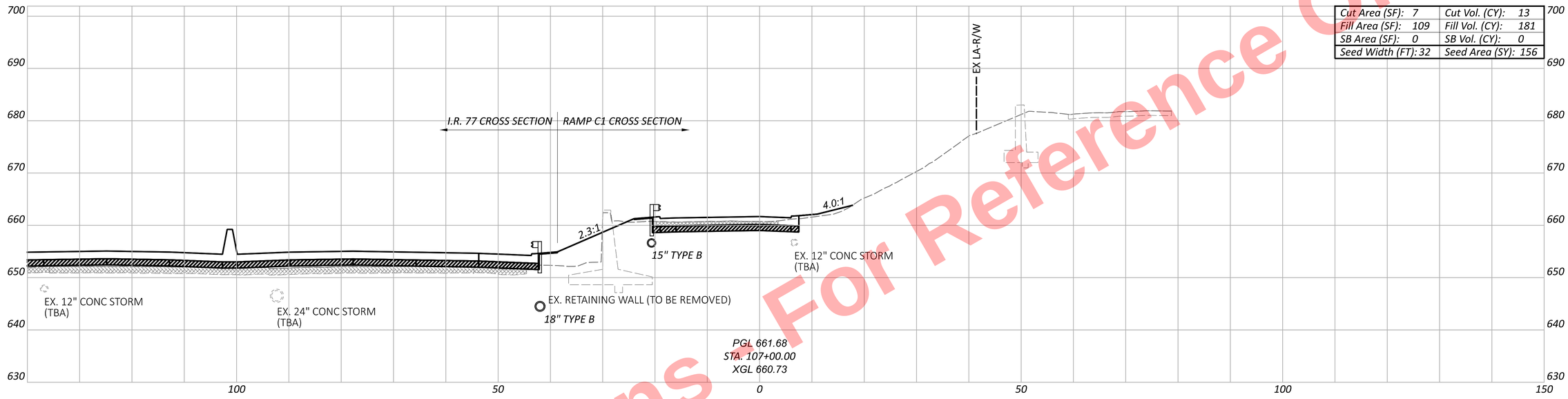
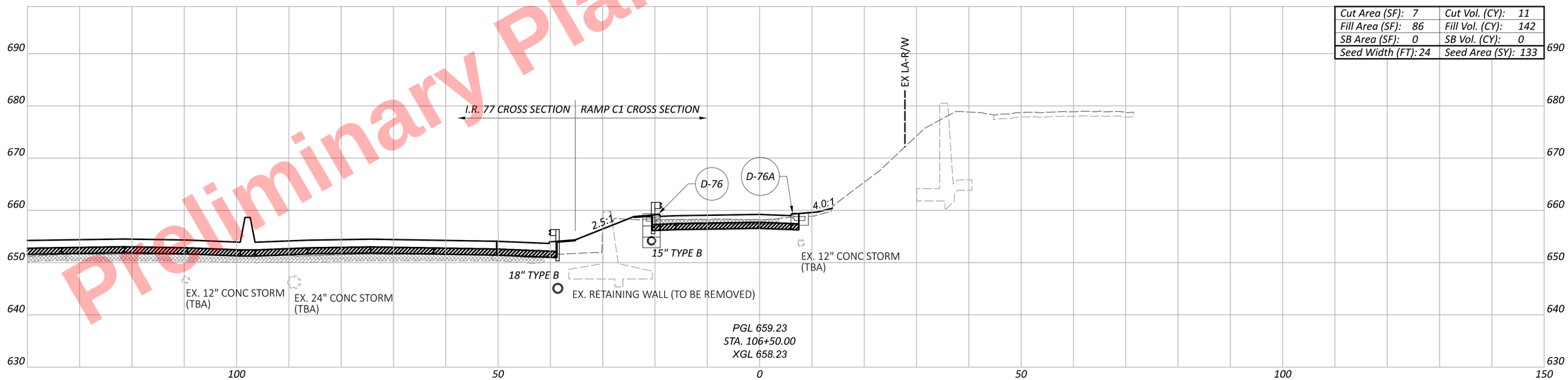
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	7	Cut Vol. (CY):	13
Fill Area (SF):	109	Fill Vol. (CY):	181
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	32	Seed Area (SY):	156



Cut Area (SF):	7	Cut Vol. (CY):	11
Fill Area (SF):	86	Fill Vol. (CY):	142
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	24	Seed Area (SY):	133

Preliminary Plans For Reference Only

CROSS SECTIONS - RAMP C1
STA. 106+50.00 TOSTA. 107+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
289	24	323	0

DESIGN AGENCY: HNTB
DESIGNER: AS
REVIEWER: MTR 04/01/22
PROJECT ID: 105743
SHEET: P.538 TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R743_C1 - 106+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:48:40 AM USER: kperkins
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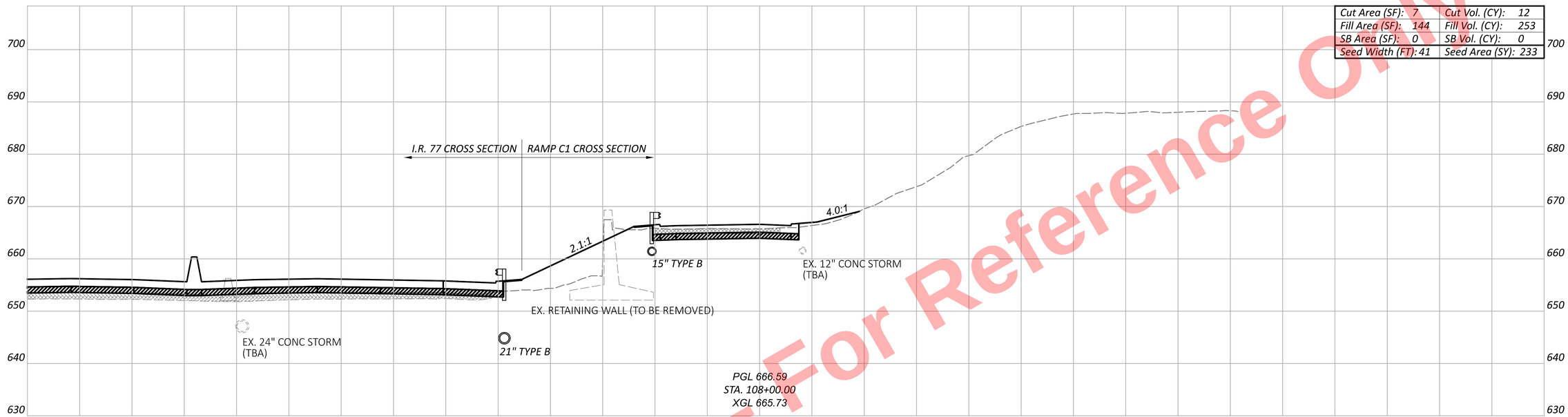
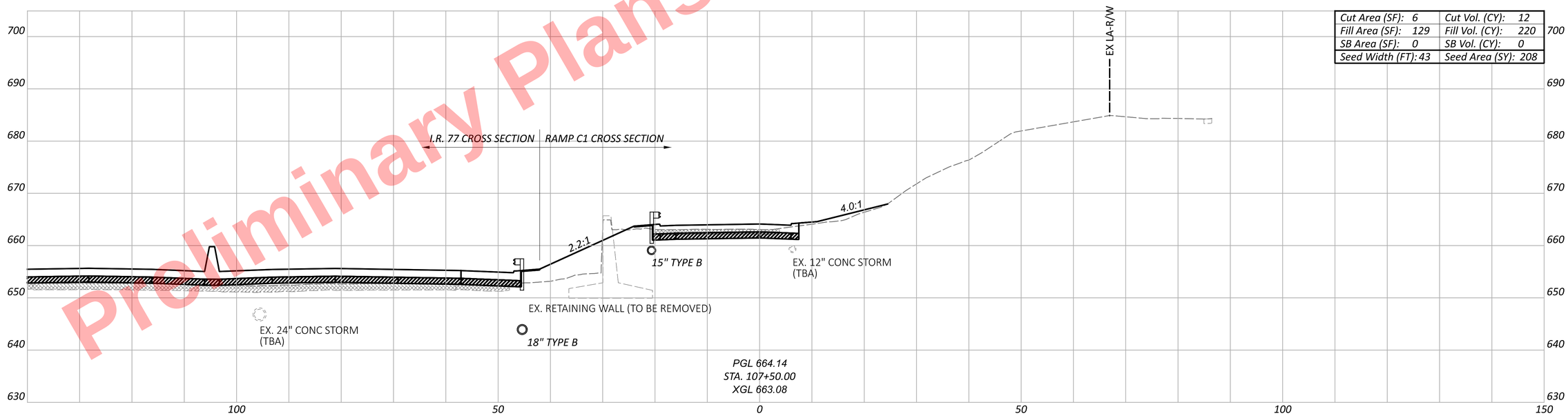
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP C1
STA. 107+50.00 TOSTA. 108+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
441	24	473	0

DESIGN AGENCY: HNTB
DESIGNER: AS
REVIEWER: MTR 04/01/22
PROJECT ID: 105743
SHEET: P.539 TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R743_C1 - 107+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:48:43 AM USER: kperkins
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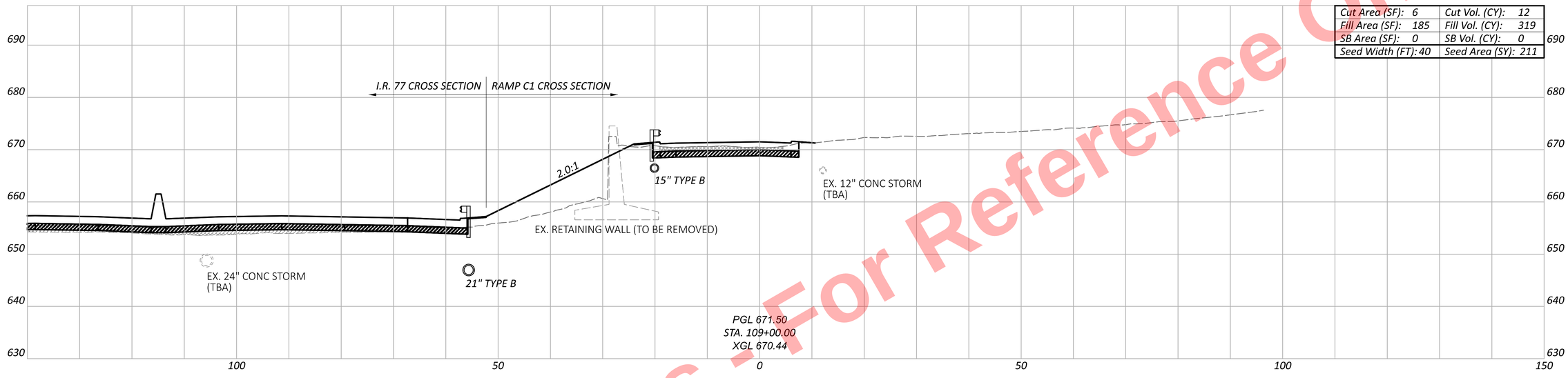
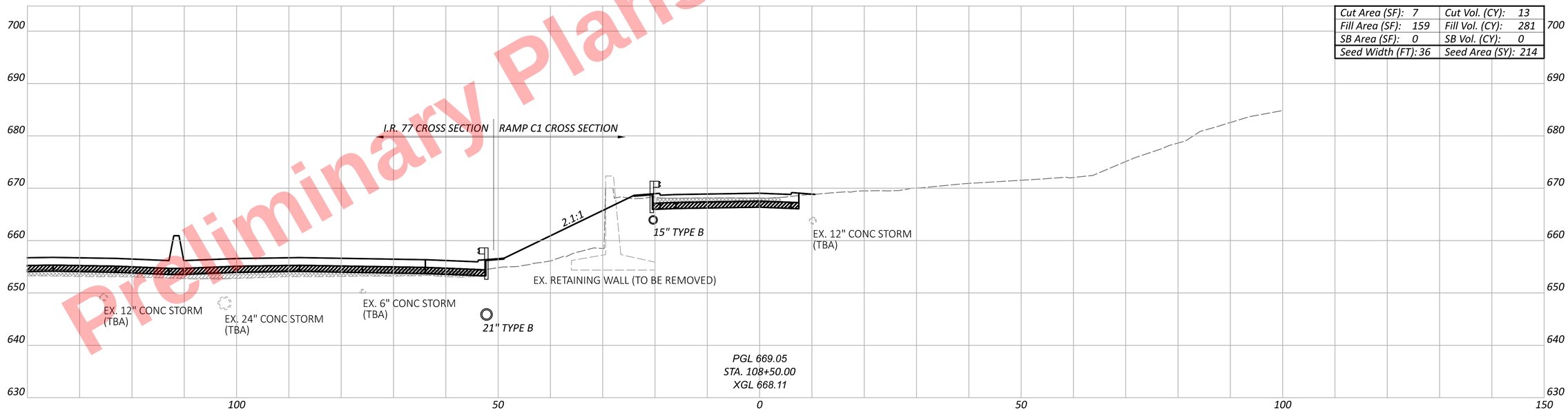
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	6	Cut Vol. (CY):	12
Fill Area (SF):	185	Fill Vol. (CY):	319
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	40	Seed Area (SY):	211



Cut Area (SF):	7	Cut Vol. (CY):	13
Fill Area (SF):	159	Fill Vol. (CY):	281
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	36	Seed Area (SY):	214

Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP C1
STA. 108+50.00 TO STA. 109+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
425	25	600	0

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.540 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R743_C1 - 108+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:48:45 AM USER: kperkins
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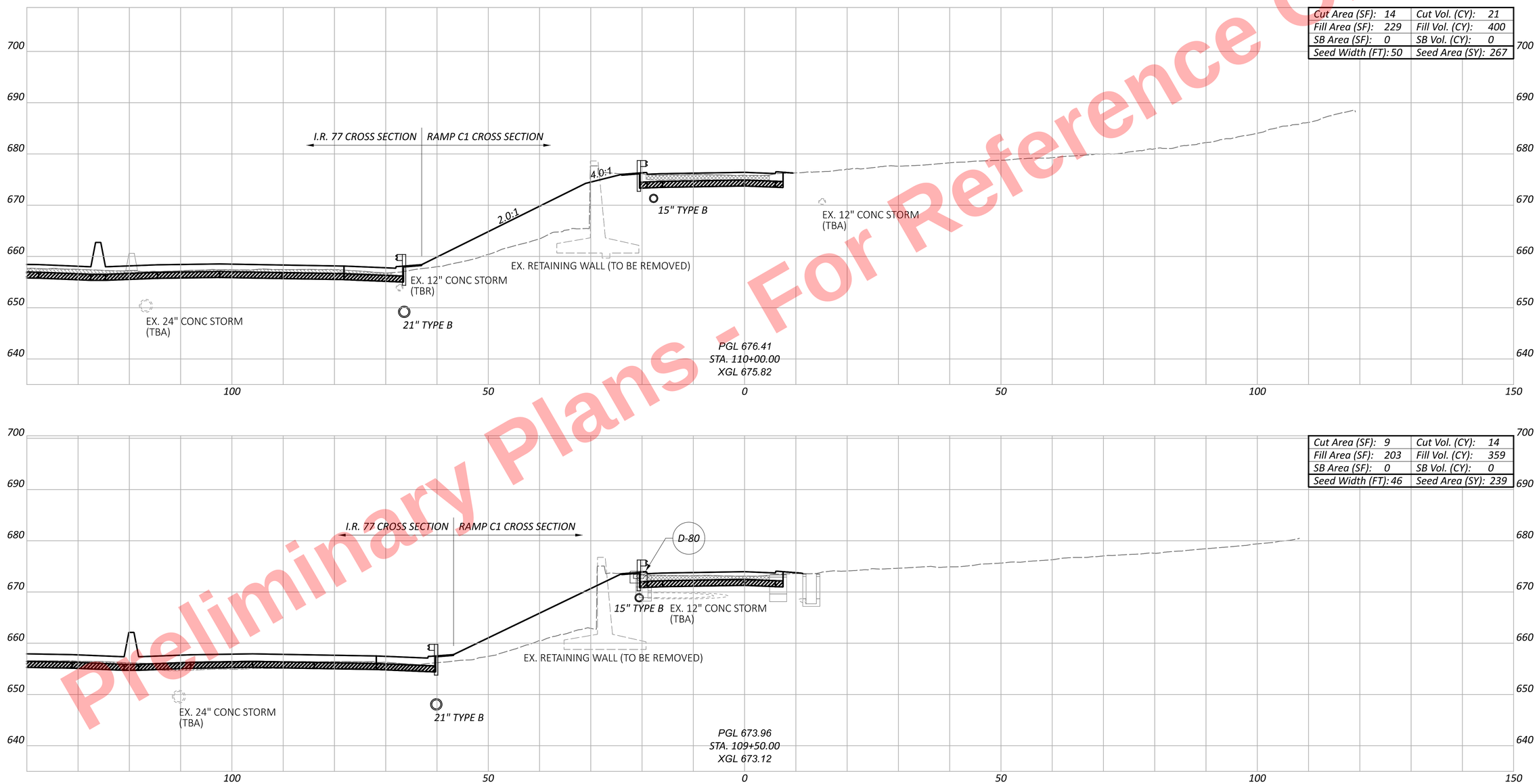
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: BLP_R743_C1 - 109+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:48:48 AM USER: kperkins
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CROSS SECTIONS - RAMP C1
STA. 109+50.00 TOSTA. 110+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
506	35	759	0

DESIGN AGENCY
HNTB

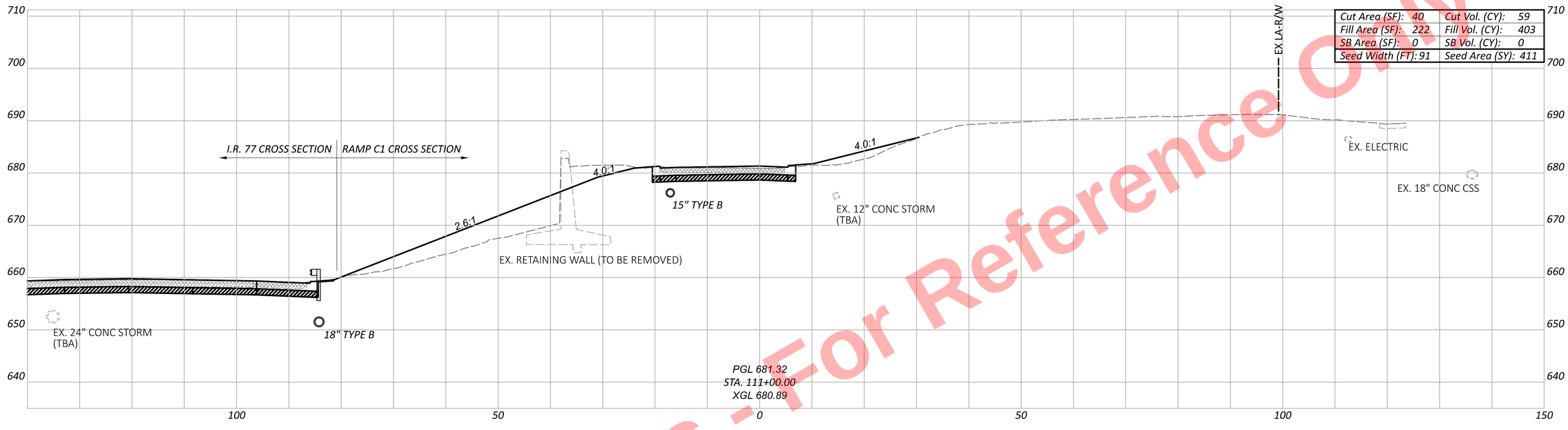
DESIGNER
AS

REVIEWER
MTR 04/01/22

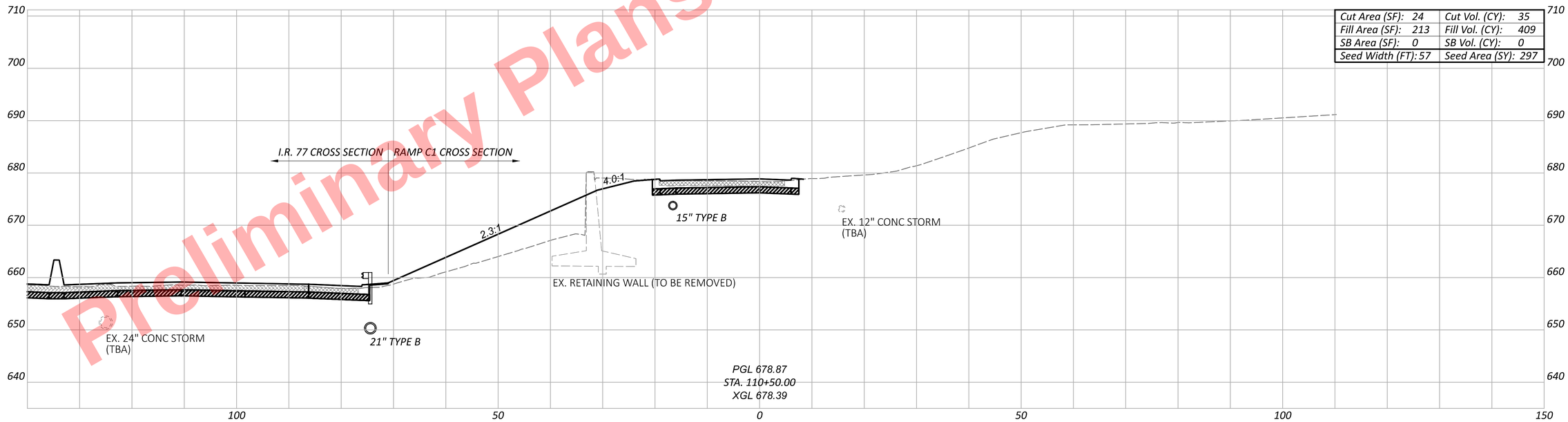
PROJECT ID
105743

SHEET P.541 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	40	Cut Vol. (CY):	59
Fill Area (SF):	222	Fill Vol. (CY):	403
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	91	Seed Area (SY):	411



Cut Area (SF):	24	Cut Vol. (CY):	35
Fill Area (SF):	213	Fill Vol. (CY):	409
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	57	Seed Area (SY):	297

Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP C1
STA. 110+50.00 TOSTA. 111+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
708	94	812	0

DESIGN AGENCY: HNTB
DESIGNER: AS
REVIEWER: MTR 04/01/22
PROJECT ID: 105743
SHEET: P.542 TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R743_C1 - 110+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:48:50 AM USER: kperkins
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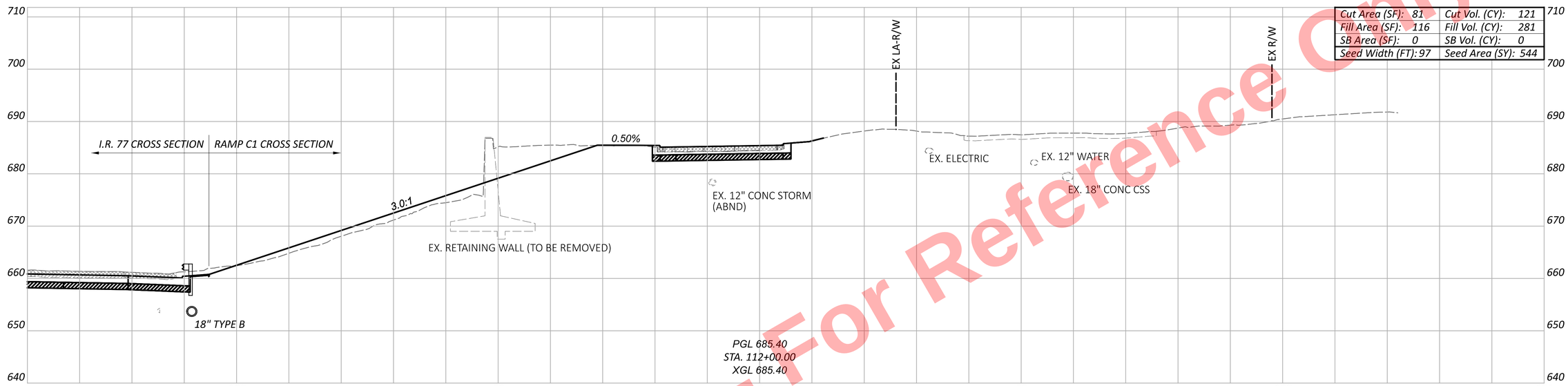
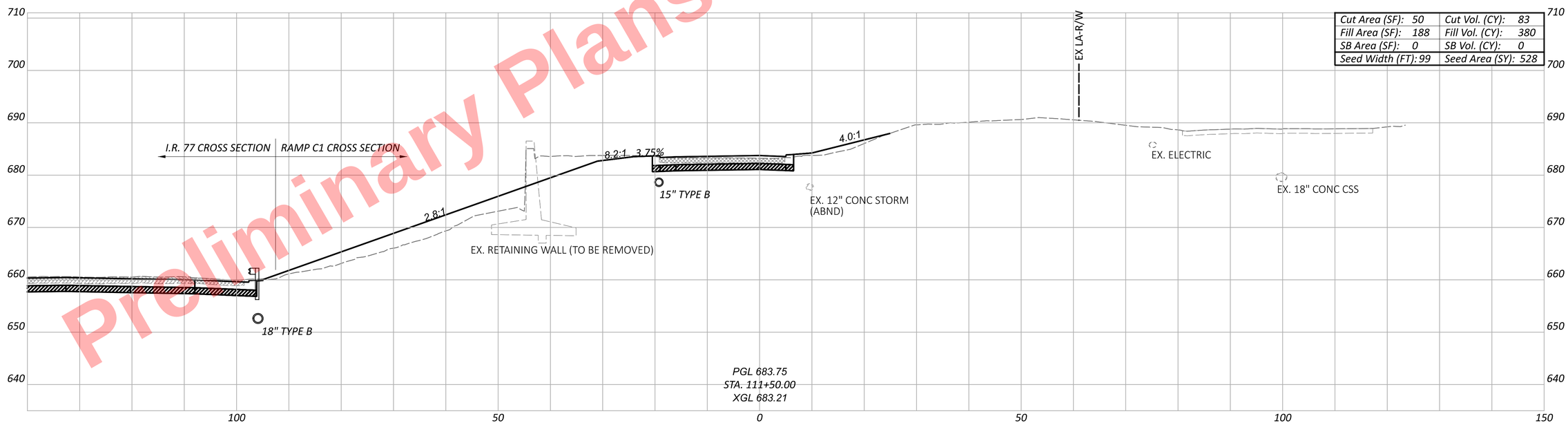
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	81	Cut Vol. (CY):	121
Fill Area (SF):	116	Fill Vol. (CY):	281
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	97	Seed Area (SY):	544



Cut Area (SF):	50	Cut Vol. (CY):	83
Fill Area (SF):	188	Fill Vol. (CY):	380
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	99	Seed Area (SY):	528

Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP C1
STA. 111+50.00 TO END WORK

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1072	204	661	0

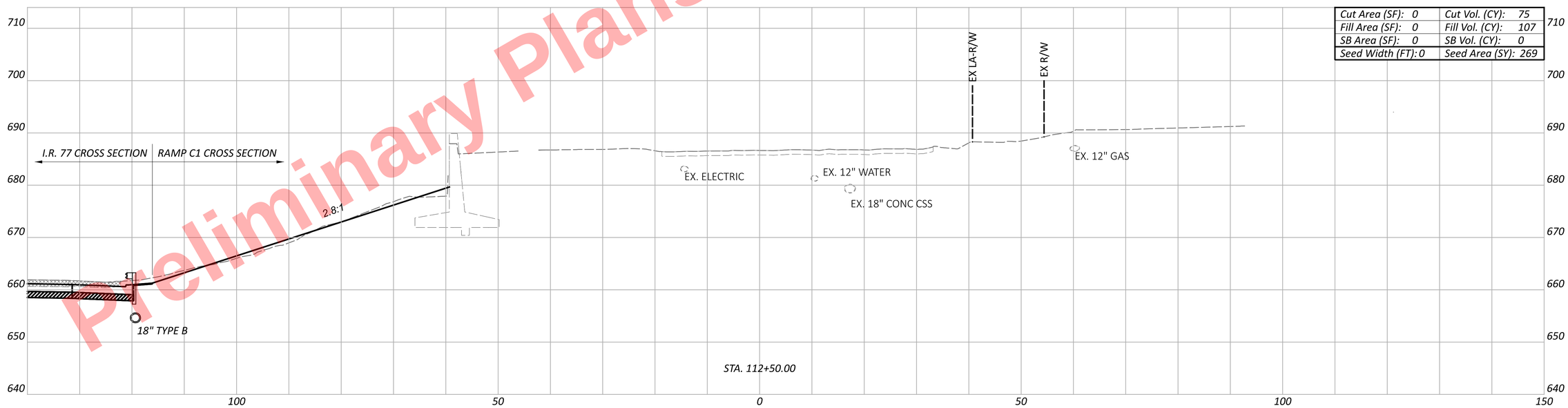
SHEET P.543 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R743_C1 - 111+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:48:53 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\v400-Engineering\Roadway\Sheets\105743_XS401.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF): 0	Cut Vol. (CY): 75
Fill Area (SF): 0	Fill Vol. (CY): 107
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 0	Seed Area (SY): 269

CROSS SECTIONS - RAMP C1
STA. 112+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
269	75	107	0

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.544 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R743_C1 - 112+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:48:55 AM USER: kperkins
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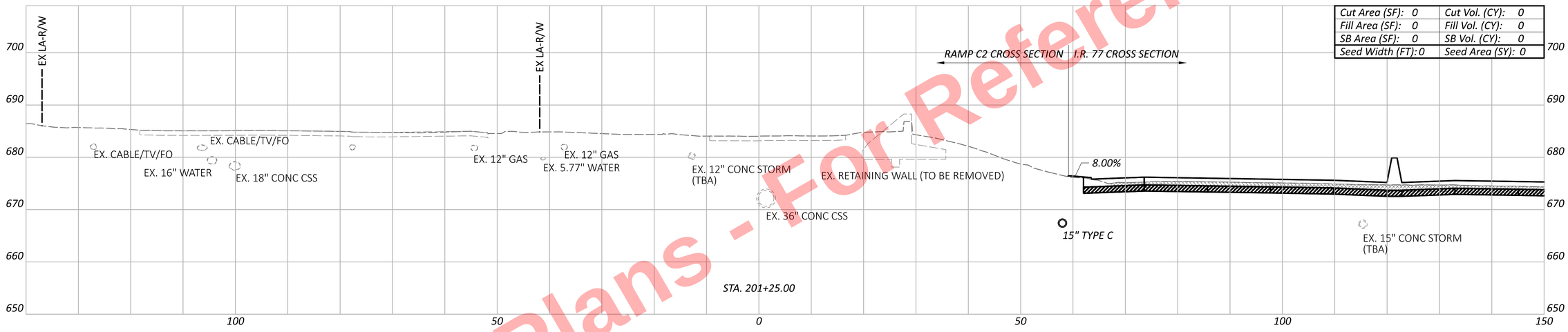
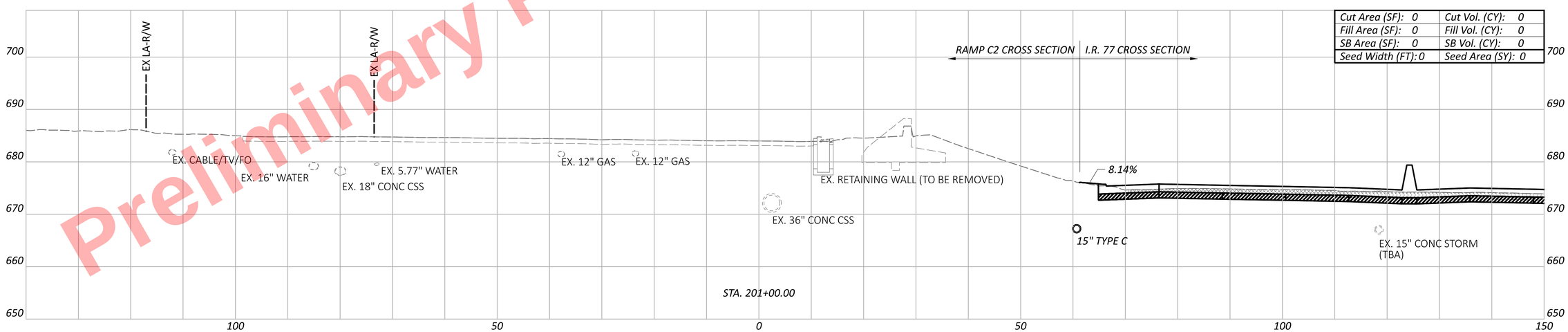
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 0	Seed Area (SY): 0



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 0	Seed Area (SY): 0

Preliminary Plans - Not For Reference Only

CUY-77-11.41 - PART 1

MODEL: BLP_R743_C2 - 201+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:48:57 AM USER: kperkins
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CROSS SECTIONS - RAMP C2
STA. 201+00.00 TO STA. 201+25.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
0	0	0	0

DESIGN AGENCY
HNTB

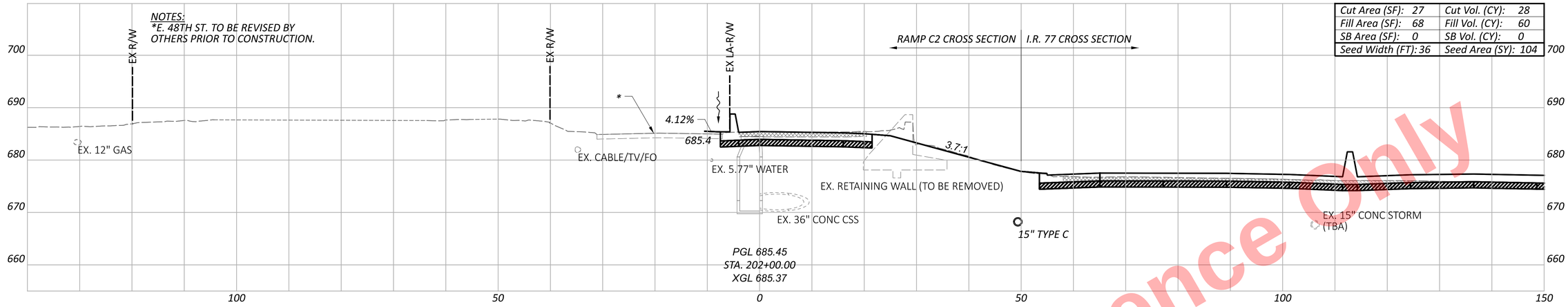
DESIGNER
AS

REVIEWER
MTR 04/01/22

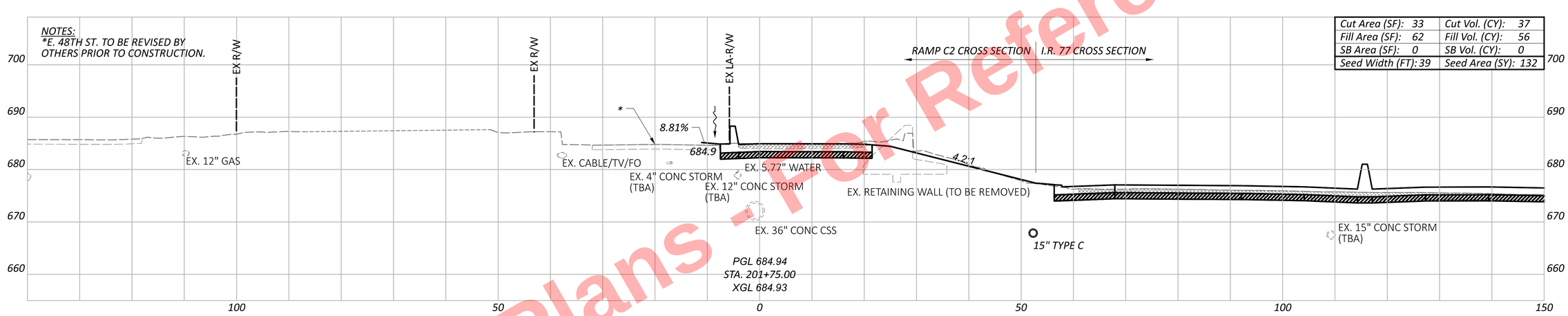
PROJECT ID
105743

SHEET P.545 TOTAL P.1269

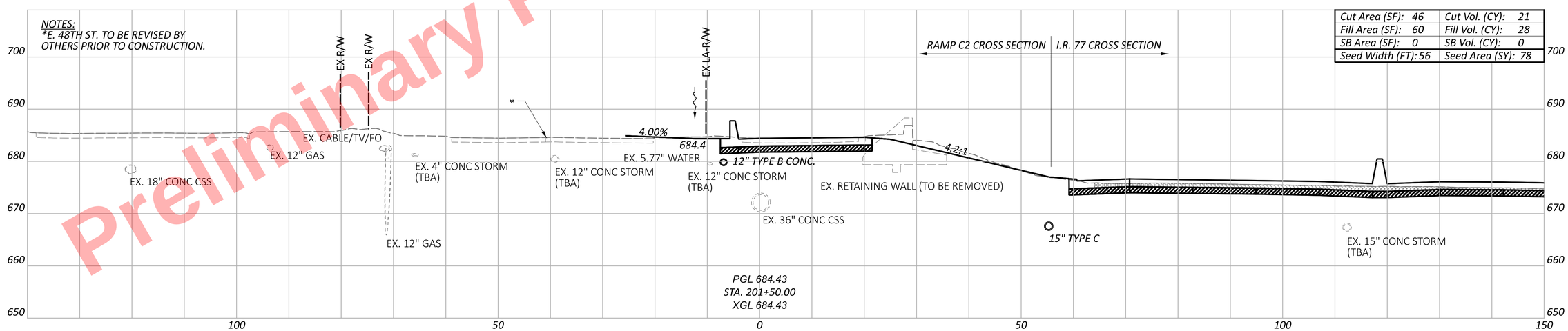
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 27	Cut Vol. (CY): 28
Fill Area (SF): 68	Fill Vol. (CY): 60
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 36	Seed Area (SY): 104



Cut Area (SF): 33	Cut Vol. (CY): 37
Fill Area (SF): 62	Fill Vol. (CY): 56
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 39	Seed Area (SY): 132



Cut Area (SF): 46	Cut Vol. (CY): 21
Fill Area (SF): 60	Fill Vol. (CY): 28
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 56	Seed Area (SY): 78

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

CROSS SECTIONS - RAMP C2
BEGIN WORK TO STA. 202+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
314	86	144	0

DESIGN AGENCY
HNTB

DESIGNER
AS

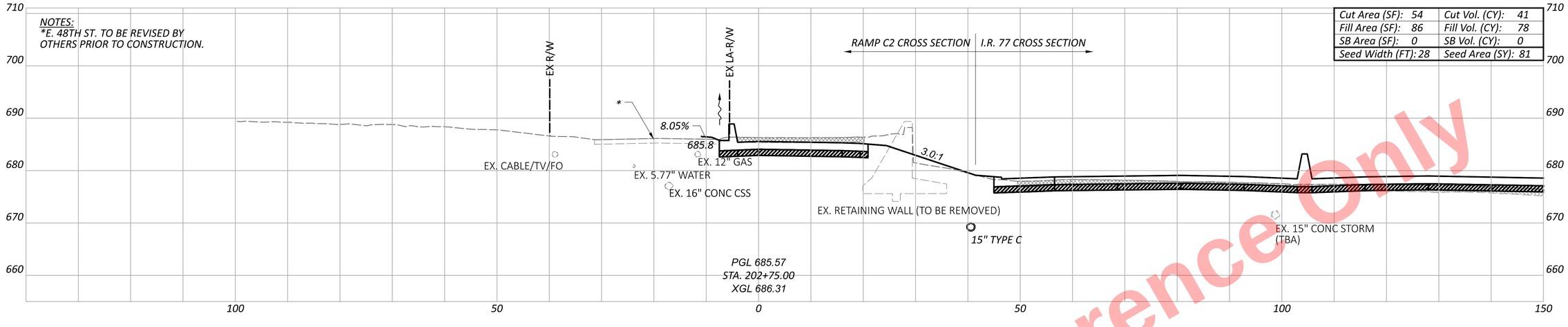
REVIEWER
MTR 04/01/22

PROJECT ID
105743

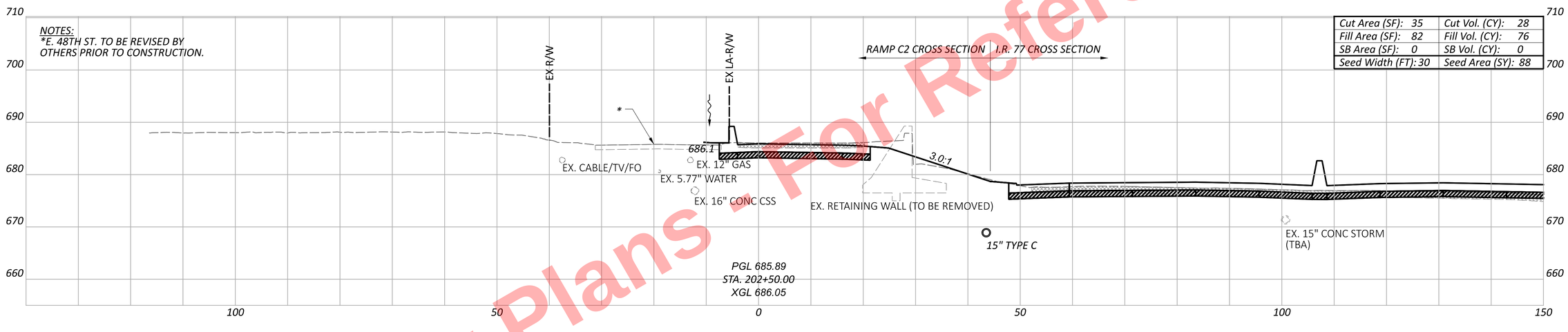
SHEET P.546 | TOTAL P.1269

MODEL: BLP_R743_C2 - 201+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:49:00 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS401.dgn

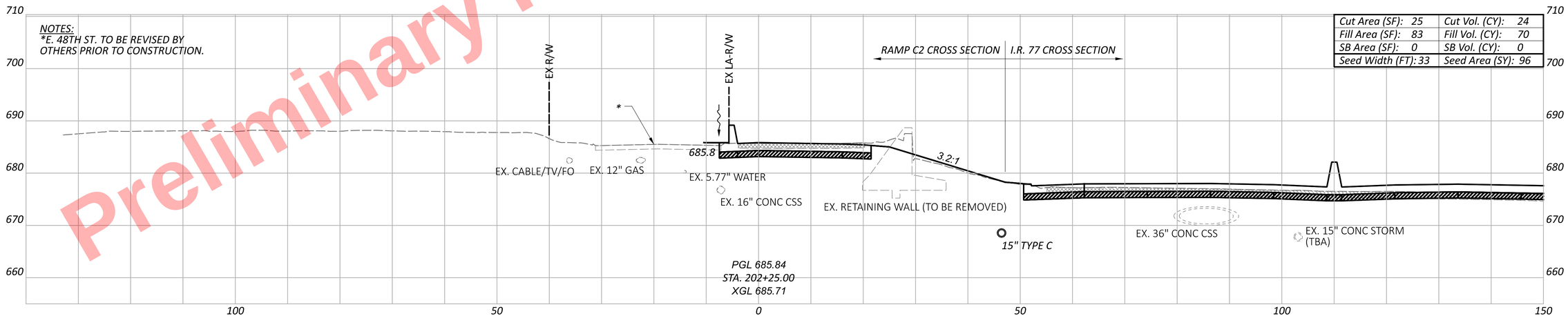
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	54	Cut Vol. (CY):	41
Fill Area (SF):	86	Fill Vol. (CY):	78
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	28	Seed Area (SY):	81



Cut Area (SF):	35	Cut Vol. (CY):	28
Fill Area (SF):	82	Fill Vol. (CY):	76
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	30	Seed Area (SY):	88



Cut Area (SF):	25	Cut Vol. (CY):	24
Fill Area (SF):	83	Fill Vol. (CY):	70
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	33	Seed Area (SY):	96

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: BLP_R743_C2 - 202+25.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:49:04 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS401.dgn

CROSS SECTIONS - RAMP C2
STA. 202+25.00 TO STA. 202+75.00

DESIGN AGENCY
HNTB

DESIGNER
AS

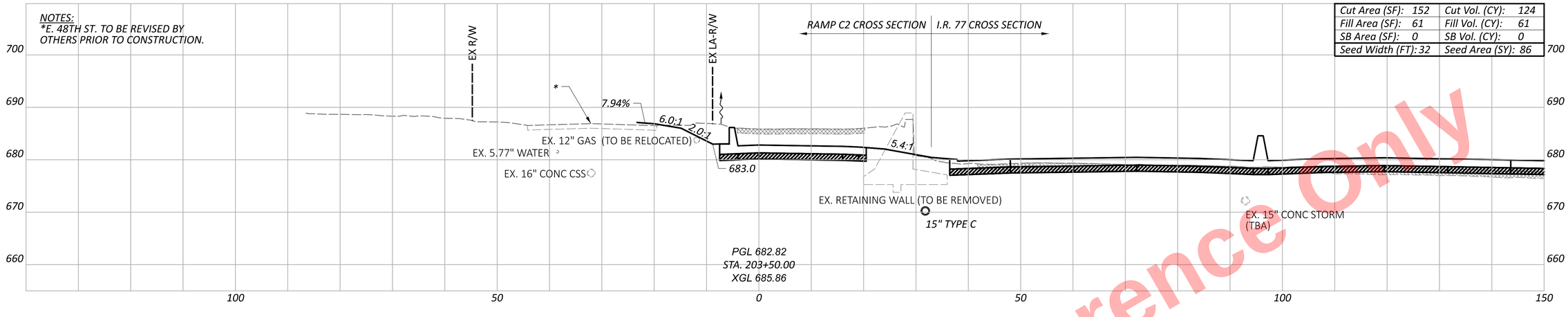
REVIEWER
MTR 04/01/22

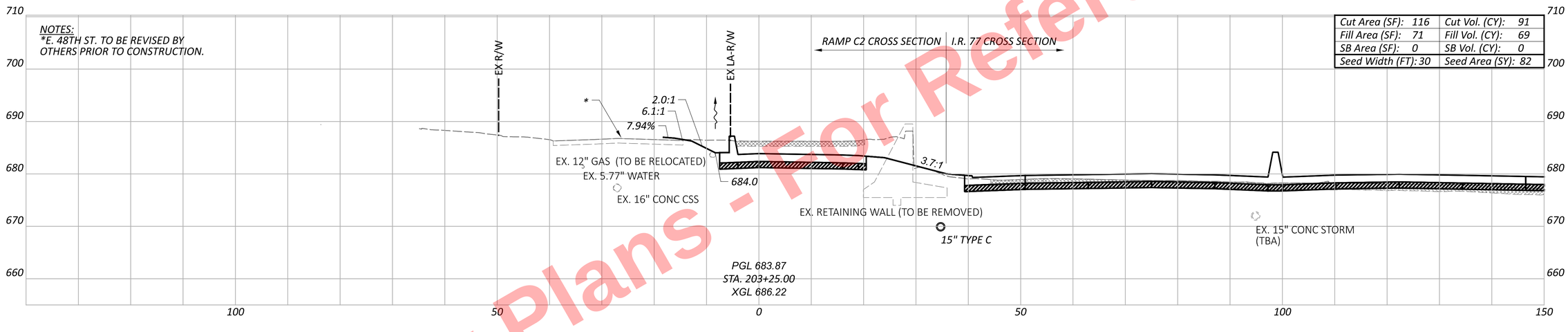
PROJECT ID
105743

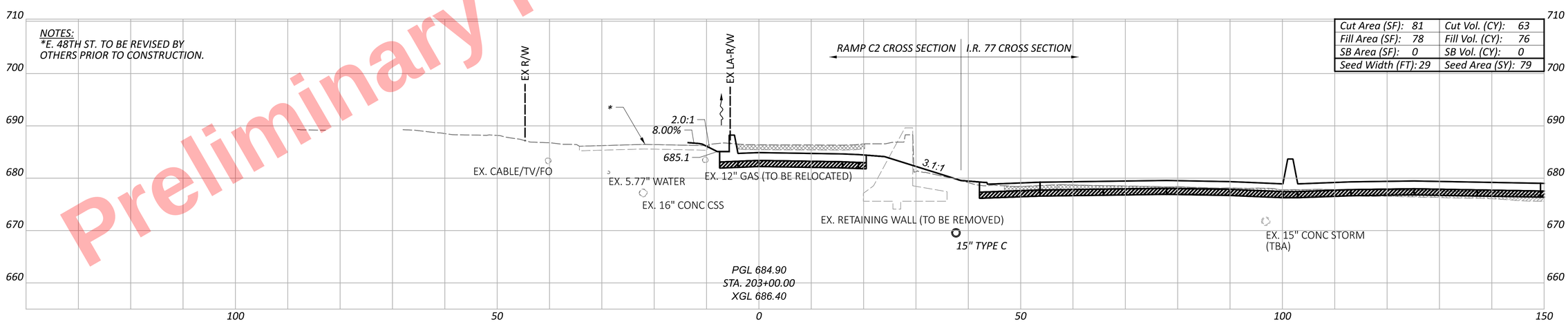
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
265	93	224	0

SHEET	TOTAL
P.547	P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES







Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP C2
STA. 203+00.00 TO STA. 203+50.00

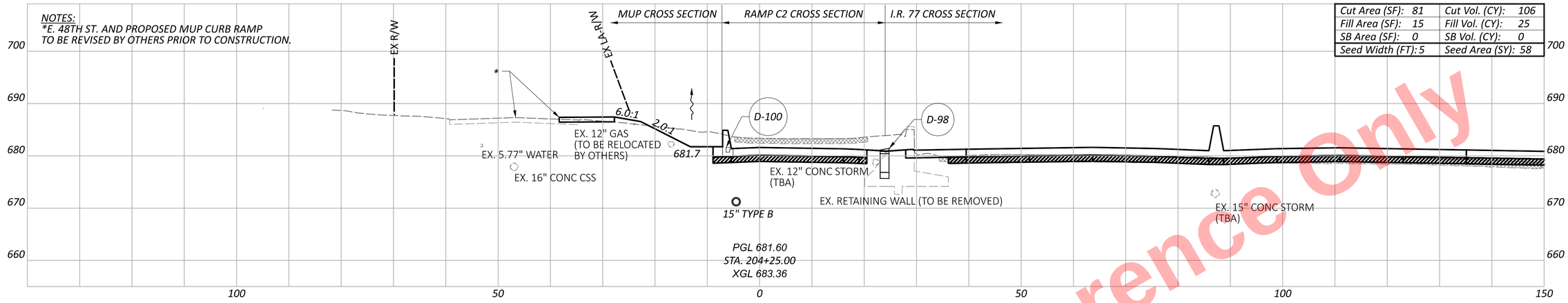
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
247	278	206	0

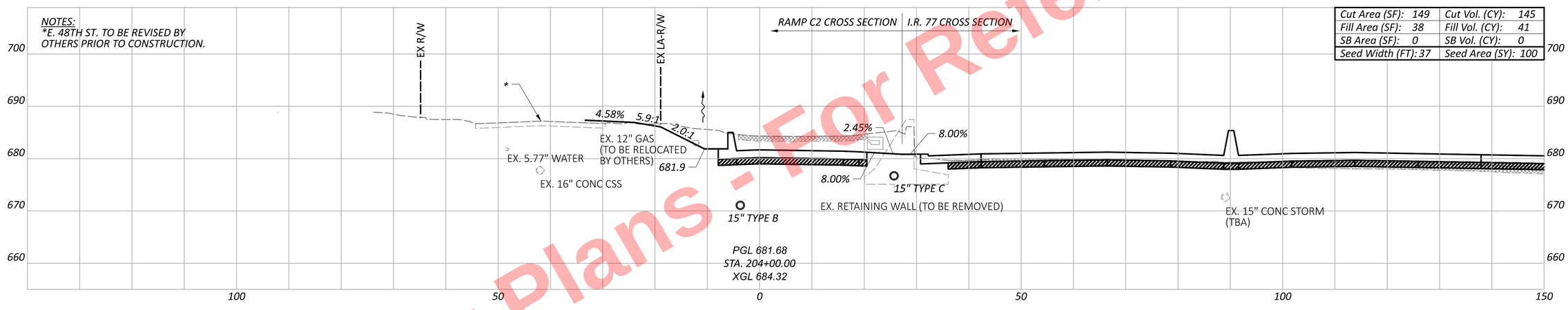
DESIGN AGENCY: HNTB
DESIGNER: AS
REVIEWER: MTR 04/01/22
PROJECT ID: 105743
SHEET: P.548 TOTAL: P.1269

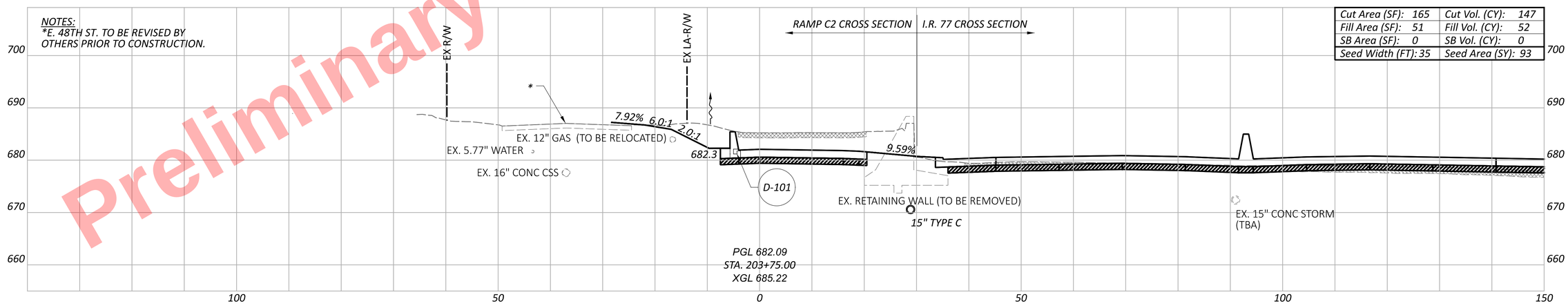
CUY-77-11.41 - PART 1

MODEL: BLP_R743_C2 - 203+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:49:07 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_XS401.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES







Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP C2
STA. 203+75.00 TO STA. 204+25.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
251	398	118	0

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

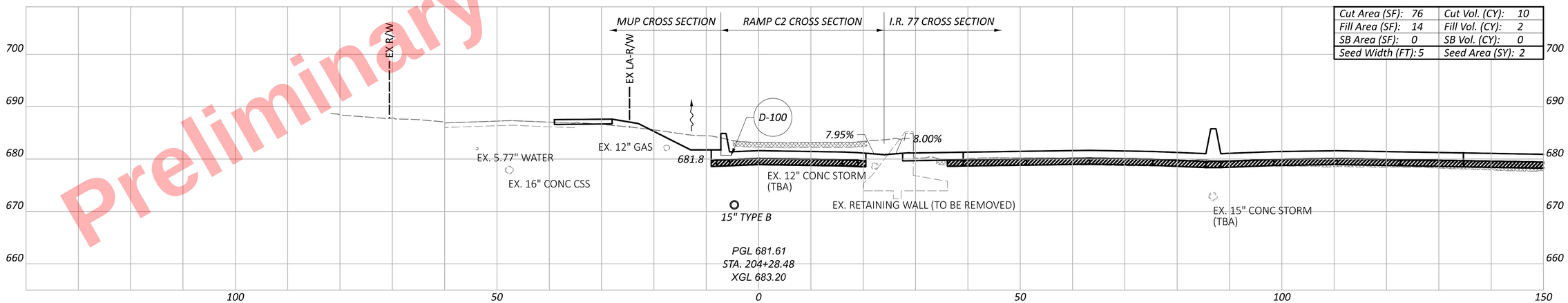
SHEET P.549 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R743_C2 - 203+75.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:49:24 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS401.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF): 76	Cut Vol. (CY): 10
Fill Area (SF): 14	Fill Vol. (CY): 2
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 5	Seed Area (SY): 2

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
2	10	2	0

CUY-77-11.41 - PART 1

MODEL: BLP_R743_C2 - 204+28.48 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:49:27 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\v400-Engineering\Roadway\Sheets\105743_XS401.dgn

CROSS SECTIONS - RAMP C2
PHYSICAL GORE

DESIGN AGENCY
HNTB

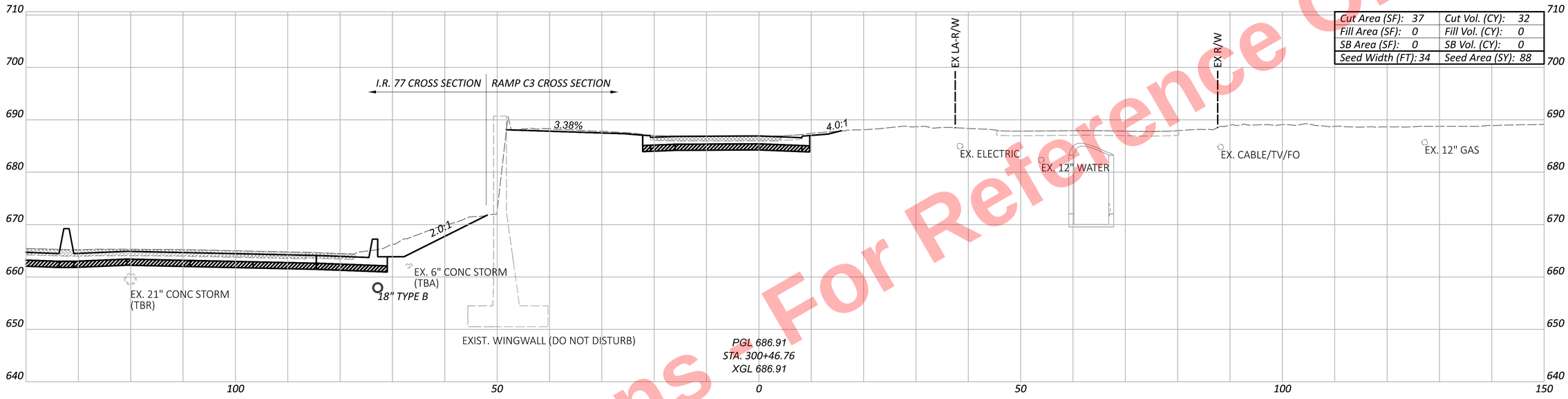
DESIGNER
AS

REVIEWER
MTR 04/01/22

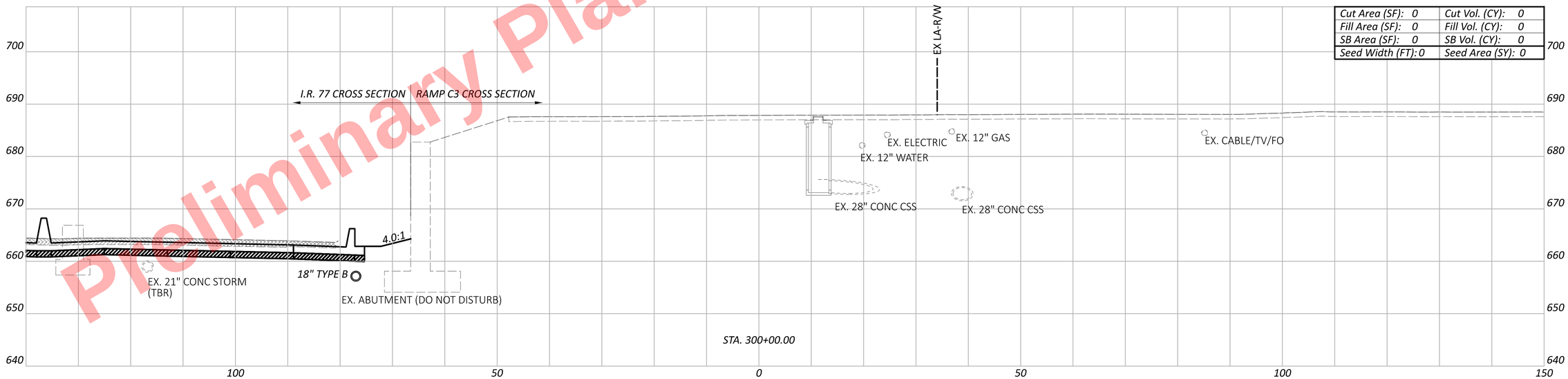
PROJECT ID
105743

SHEET P.550 | TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	37	Cut Vol. (CY):	32
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	34	Seed Area (SY):	88



Cut Area (SF):	0	Cut Vol. (CY):	0
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0

Preliminary Plans For Reference Only

CUY-77-11.41 - PART 1

MODEL: BLP_R743_C3 - 300+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:49:29 AM USER: kperkins
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CROSS SECTIONS - RAMP C3
STA. 300+00.00 TO BEGIN WORK

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
88	32	0	0

DESIGN AGENCY
HNTB

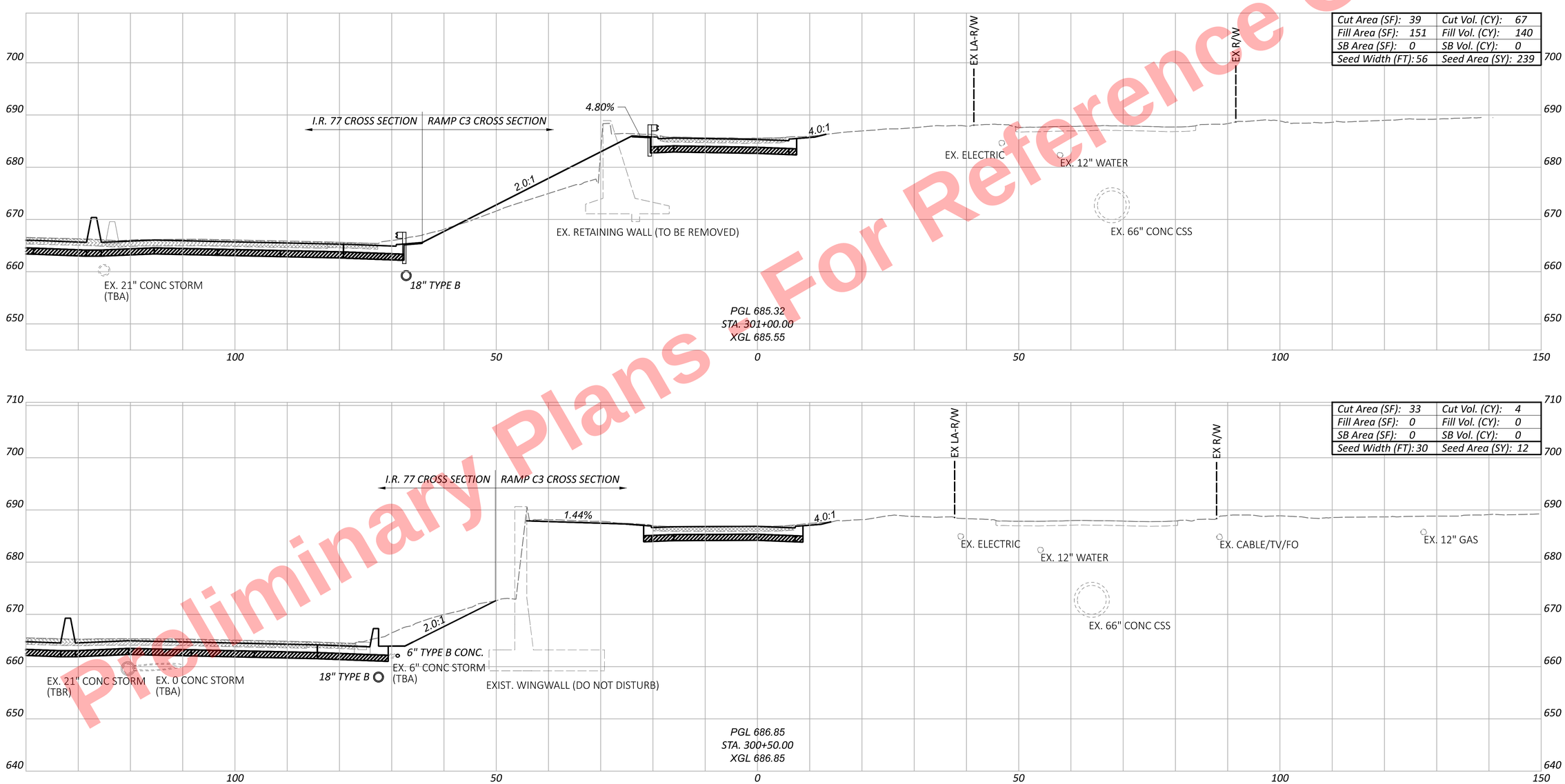
DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.551 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 39	Cut Vol. (CY): 67
Fill Area (SF): 151	Fill Vol. (CY): 140
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 56	Seed Area (SY): 239

Cut Area (SF): 33	Cut Vol. (CY): 4
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 30	Seed Area (SY): 12

Preliminary Plans For Reference Only

CROSS SECTIONS - RAMP C3
STA. 300+50.00 TO STA. 301+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
251	71	140	0

DESIGN AGENCY: HNTB
DESIGNER: AS
REVIEWER: MTR 04/01/22
PROJECT ID: 105743
SHEET: P.552 TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R743_C3 - 300+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:49:32 AM USER: kperkins
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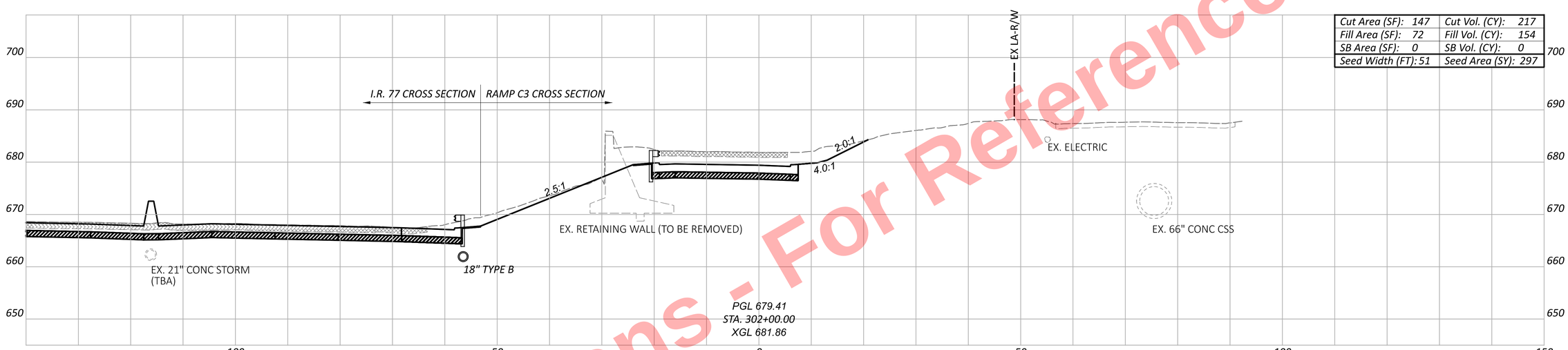
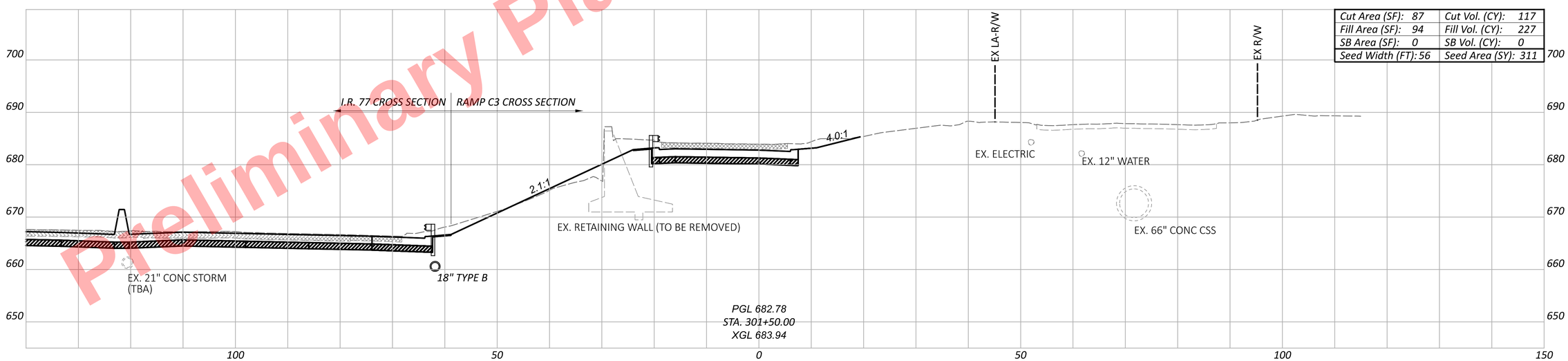
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	147	Cut Vol. (CY):	217
Fill Area (SF):	72	Fill Vol. (CY):	154
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	51	Seed Area (SY):	297



Cut Area (SF):	87	Cut Vol. (CY):	117
Fill Area (SF):	94	Fill Vol. (CY):	227
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	56	Seed Area (SY):	311

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: BLP_R743_C3 - 301+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:49:34 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS401.dgn

CROSS SECTIONS - RAMP C3
STA. 301+50.00 TO STA. 302+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
608	334	381	0

DESIGN AGENCY
HNTB

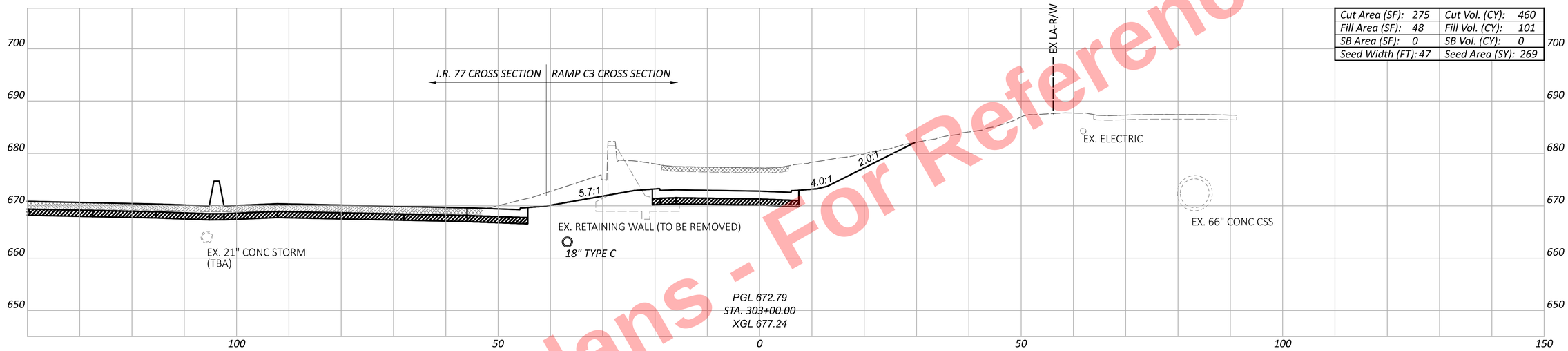
DESIGNER
AS

REVIEWER
MTR 04/01/22

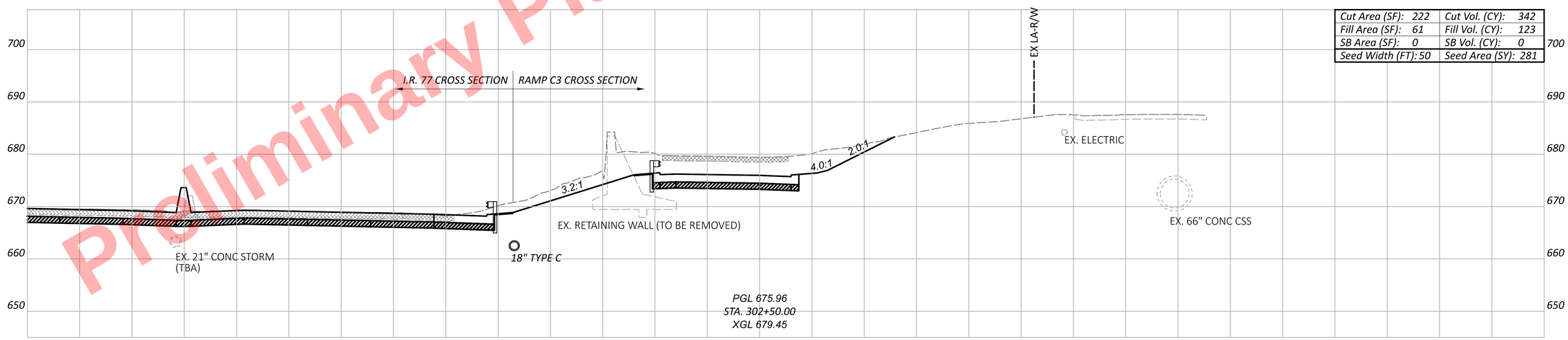
PROJECT ID
105743

SHEET P.553 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	275	Cut Vol. (CY):	460
Fill Area (SF):	48	Fill Vol. (CY):	101
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	47	Seed Area (SY):	269



Cut Area (SF):	222	Cut Vol. (CY):	342
Fill Area (SF):	61	Fill Vol. (CY):	123
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	50	Seed Area (SY):	281

Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP C3
STA. 302+50.00 TO STA. 303+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

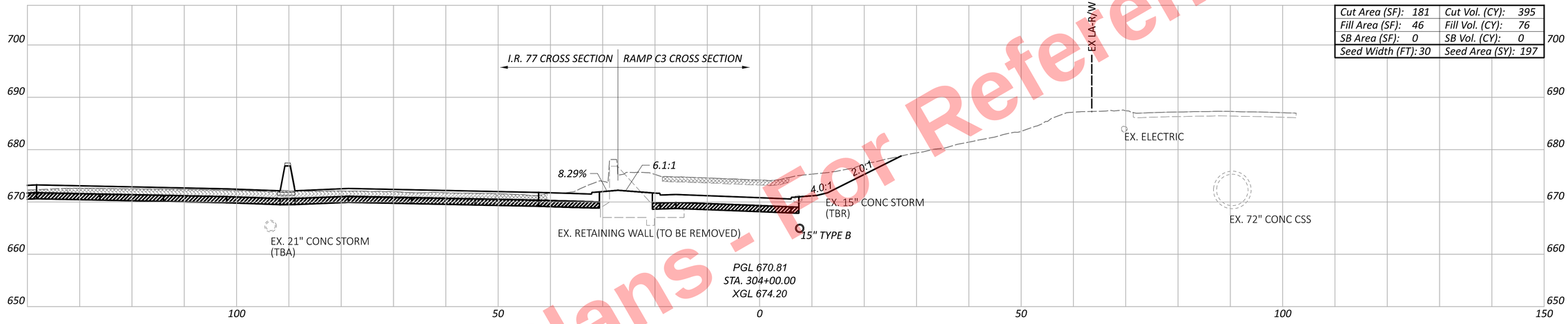
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
550	802	224	0

SHEET P.554 TOTAL P.1269

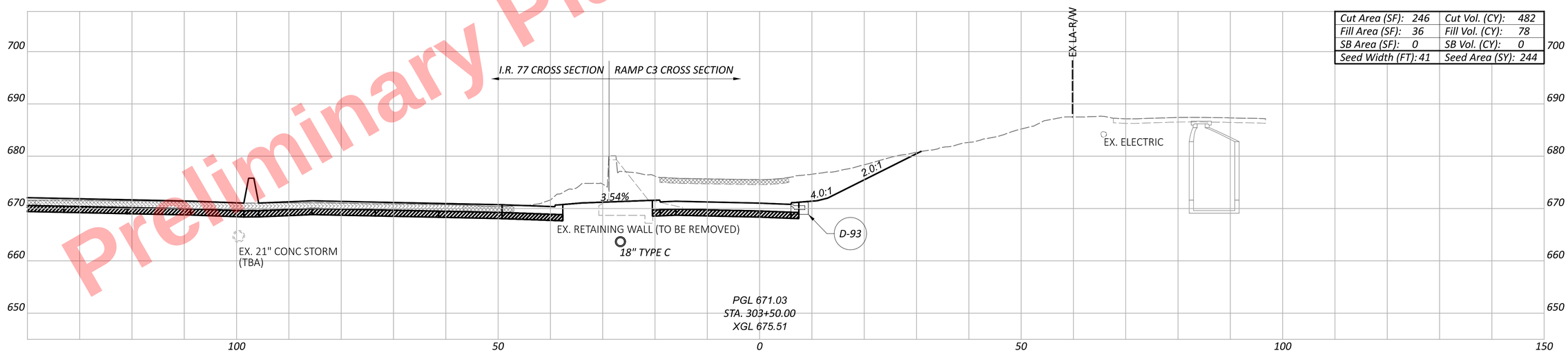
CUY-77-11.41 - PART 1

MODEL: BLP_R743_C3 - 302+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:49:36 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS401.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	181	Cut Vol. (CY):	395
Fill Area (SF):	46	Fill Vol. (CY):	76
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	30	Seed Area (SY):	197



Cut Area (SF):	246	Cut Vol. (CY):	482
Fill Area (SF):	36	Fill Vol. (CY):	78
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	41	Seed Area (SY):	244

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: BLP_R743_C3 - 303+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:49:39 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS401.dgn

CROSS SECTIONS - RAMP C3
STA. 303+50.00 TO STA. 304+00.00

DESIGN AGENCY
HNTB

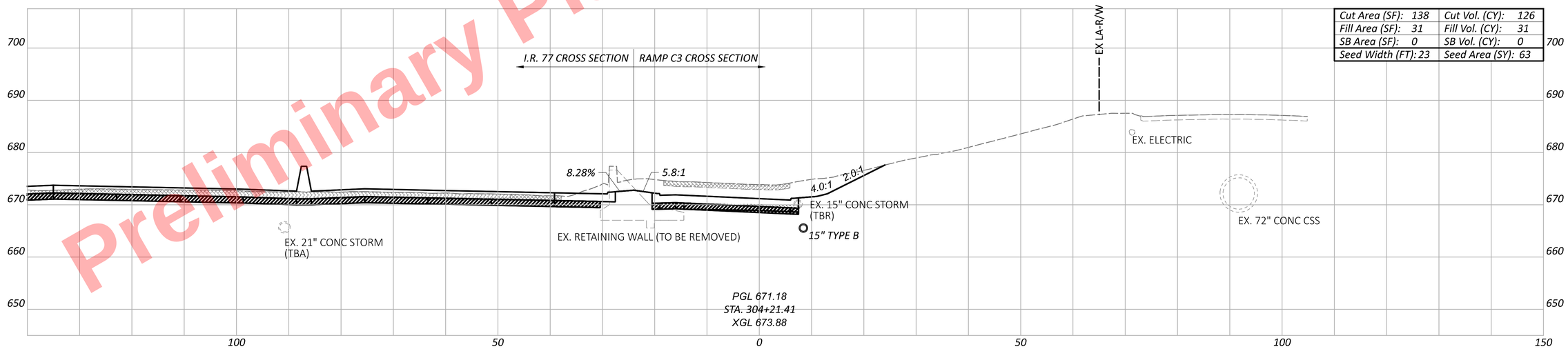
DESIGNER	AS
REVIEWER	MTR 04/01/22
PROJECT ID	105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
441	877	154	0

SHEET	TOTAL
P.555	P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF):	138	Cut Vol. (CY):	126
Fill Area (SF):	31	Fill Vol. (CY):	31
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	23	Seed Area (SY):	63

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
63	126	31	0

CUY-77-11.41 - PART 1

CROSS SECTIONS - RAMP C3
END WORK

DESIGN AGENCY
HNTB

DESIGNER
AS

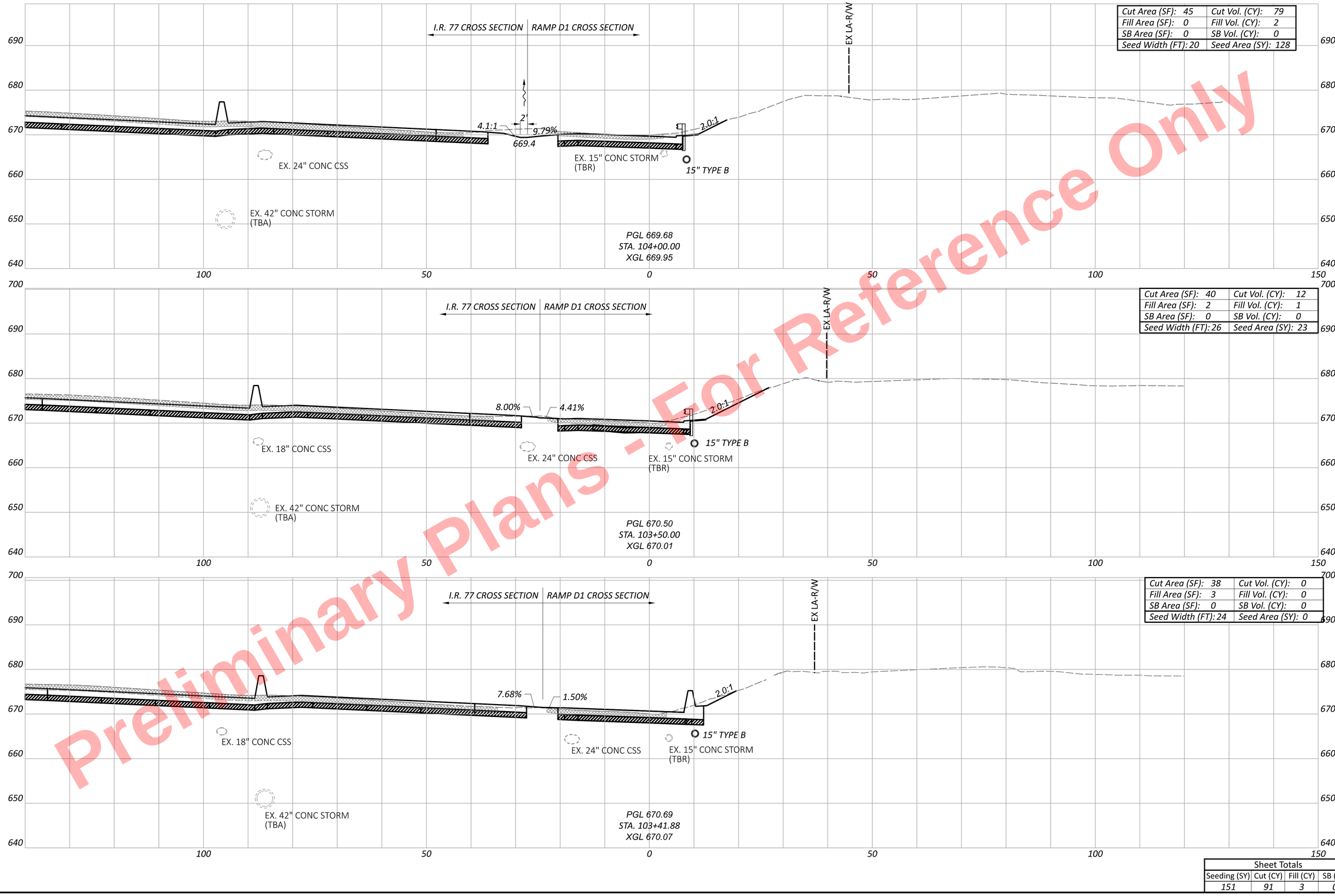
REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.556 TOTAL P.1269

MODEL: BLP_R743_C3 - 304+21.41 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:49:42 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS401.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	45	Cut Vol. (CY):	79
Fill Area (SF):	0	Fill Vol. (CY):	2
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	20	Seed Area (SY):	128

Cut Area (SF):	40	Cut Vol. (CY):	12
Fill Area (SF):	2	Fill Vol. (CY):	1
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	26	Seed Area (SY):	23

Cut Area (SF):	38	Cut Vol. (CY):	0
Fill Area (SF):	3	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	24	Seed Area (SY):	0

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: BLP_R329_D1 - 103+41.88 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:49:56 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS501.dgn

CROSS SECTIONS - RAMP D1
PHYSICAL GORE TO STA. 104+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

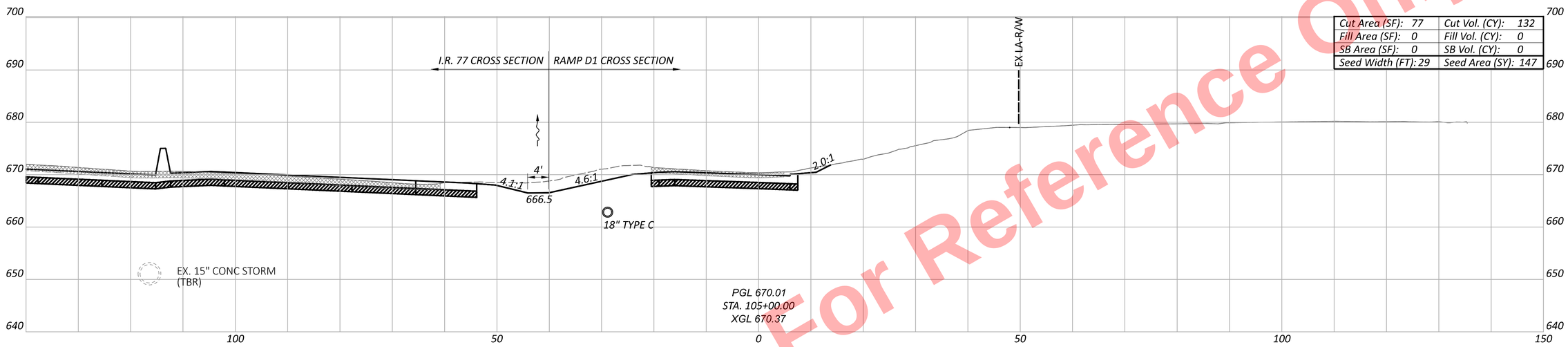
REVIEWER
MTR 04/01/22

PROJECT ID
105743

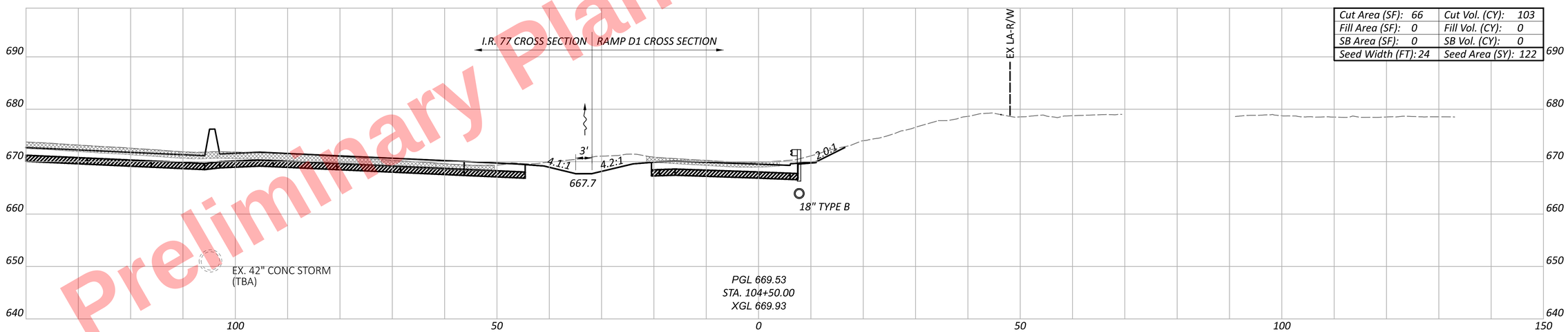
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
151	91	3	0

SHEET	TOTAL
P.557	P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	77	Cut Vol. (CY):	132
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	29	Seed Area (SY):	147



Cut Area (SF):	66	Cut Vol. (CY):	103
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	24	Seed Area (SY):	122

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

CROSS SECTIONS - RAMP D1
STA. 104+50.00 TO STA. 105+50.00

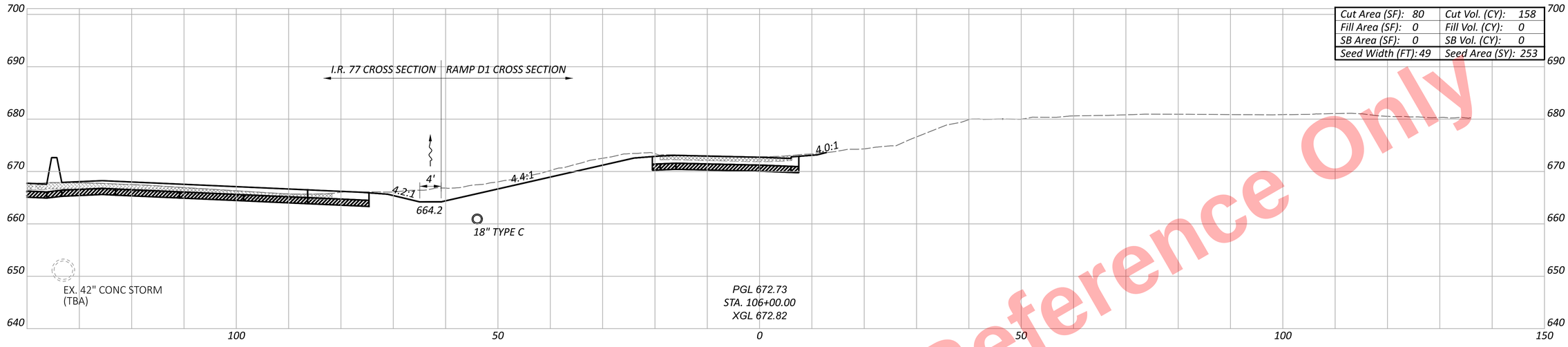
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
269	235	0	0

DESIGN AGENCY
HNTB

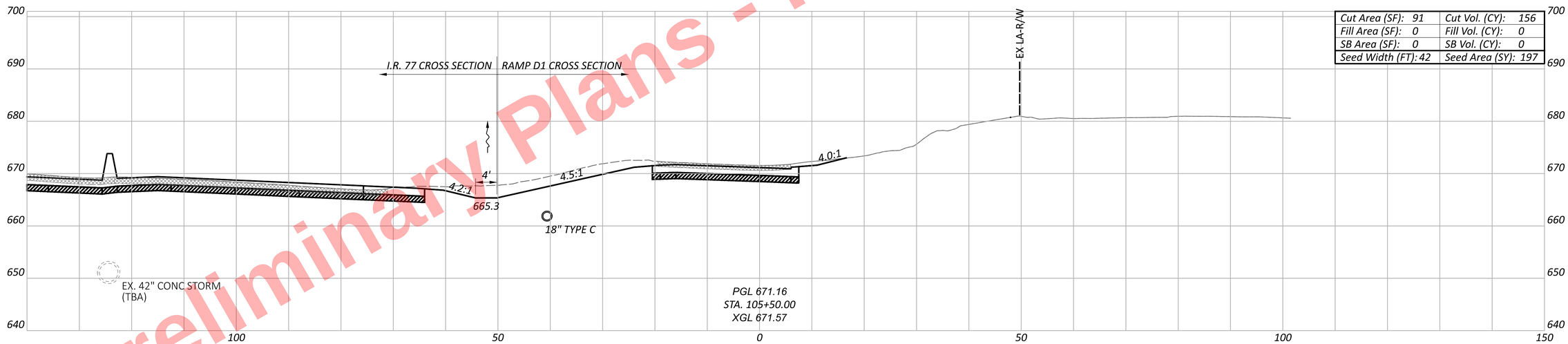
DESIGNER AS
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.558 TOTAL P.1269

MODEL: BLP_R329_D1 - 104+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:50:04 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\400-Engineering\Roadway\Sheets\105743_XS501.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	80	Cut Vol. (CY):	158
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	49	Seed Area (SY):	253



Cut Area (SF):	91	Cut Vol. (CY):	156
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	42	Seed Area (SY):	197

Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP D1
STA. 106+00.00 TO END WORK

CUY-77-11.41 - PART 1

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
450	314	0	0

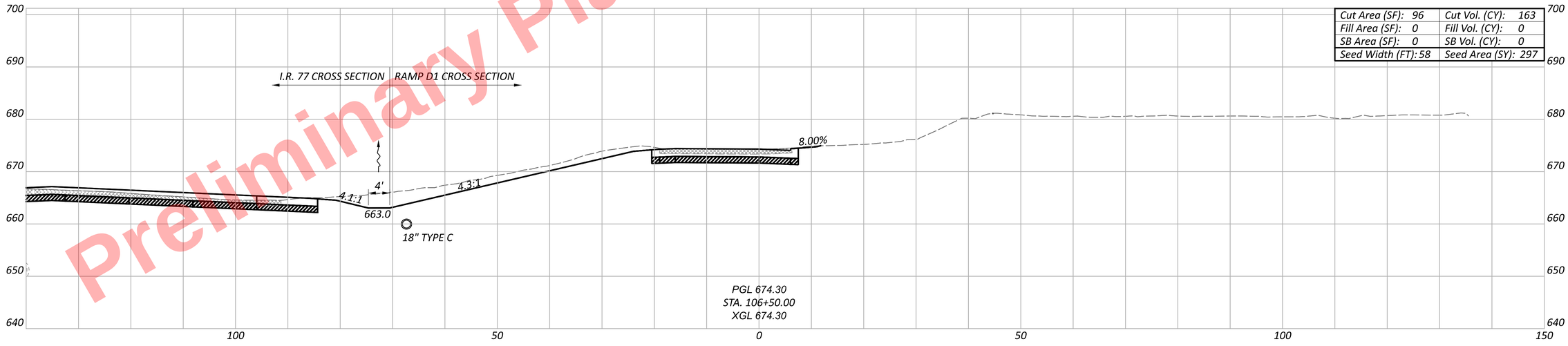
DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.559 TOTAL P.1269

MODEL: BLP_R329_D1 - 106+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:50:09 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_XS501.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF):	96	Cut Vol. (CY):	163
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	58	Seed Area (SY):	297

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
297	163	0	0

CUY-77-11.41 - PART 1

CROSS SECTIONS - RAMP D1
STA. 107+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

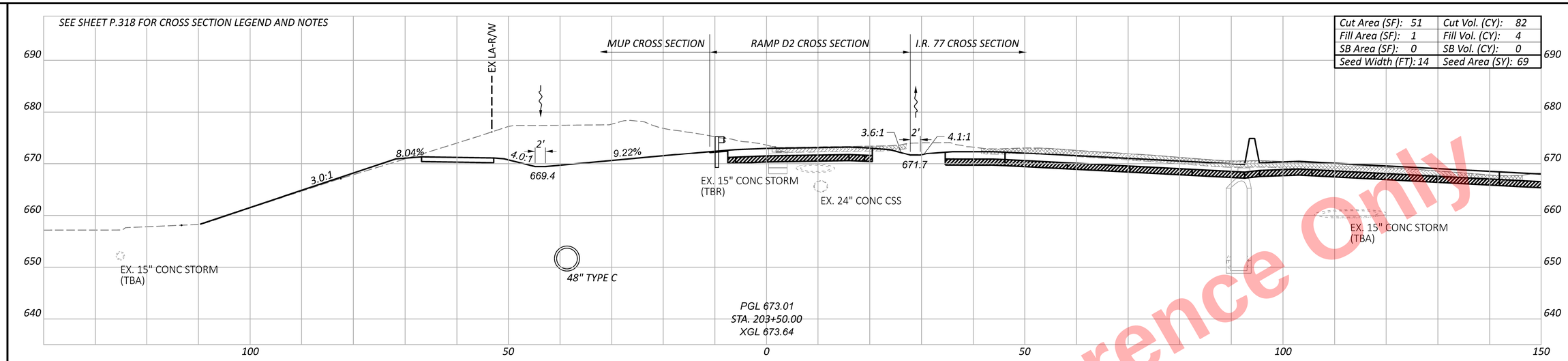
REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.560 TOTAL P.1269

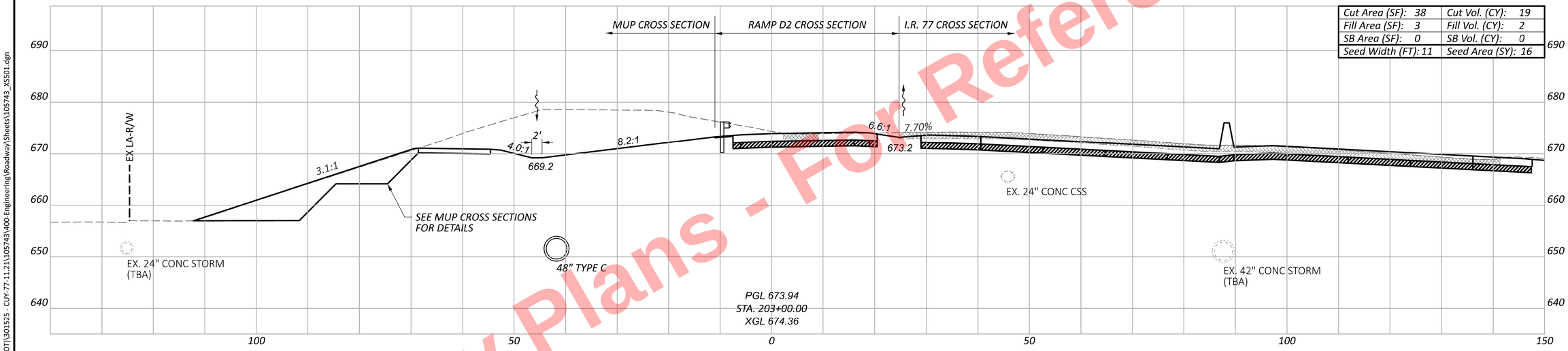
MODEL: BLP_R329_D1 - 107+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:50:12 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_XS501.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



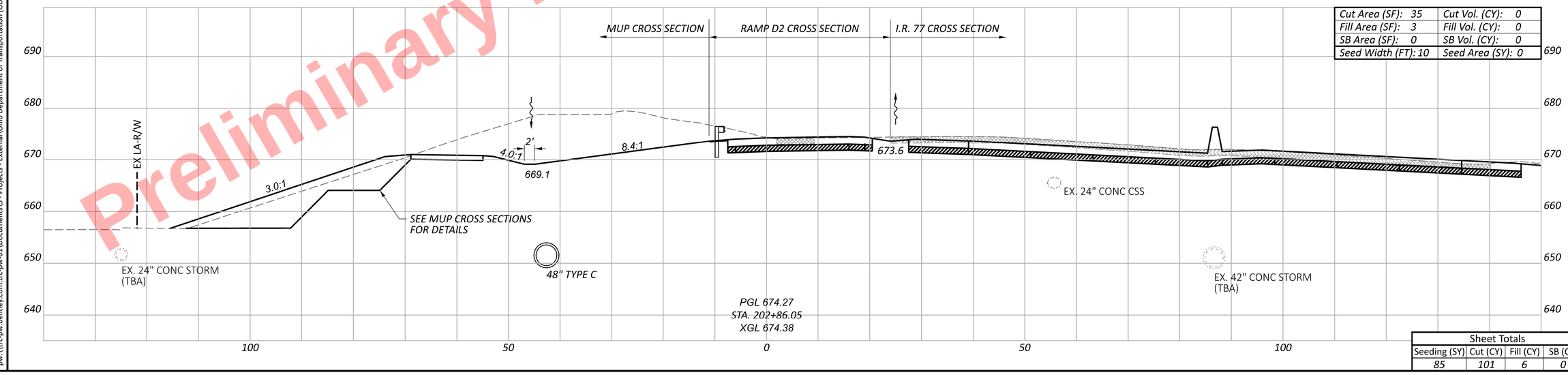
Cut Area (SF): 51	Cut Vol. (CY): 82
Fill Area (SF): 1	Fill Vol. (CY): 4
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 14	Seed Area (SY): 69

PGL 673.01
STA. 203+50.00
XGL 673.64



Cut Area (SF): 38	Cut Vol. (CY): 19
Fill Area (SF): 3	Fill Vol. (CY): 2
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 11	Seed Area (SY): 16

PGL 673.94
STA. 203+00.00
XGL 674.36



Cut Area (SF): 35	Cut Vol. (CY): 0
Fill Area (SF): 3	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 10	Seed Area (SY): 0

PGL 674.27
STA. 202+86.05
XGL 674.38

Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP D2
STA. 203+00.00 TO STA. 203+50.00

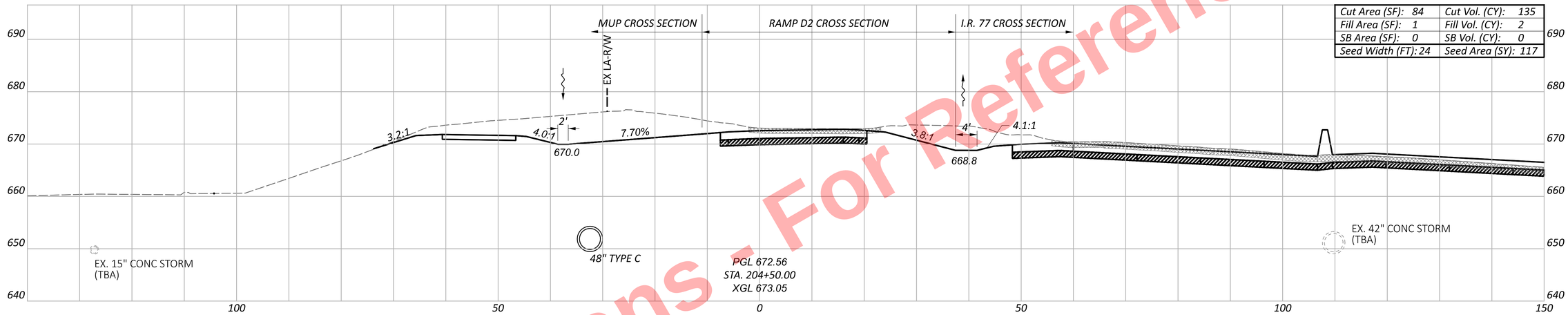
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
85	101	6	0

DESIGN AGENCY: HNTB
DESIGNER: AS
REVIEWER: MTR 04/01/22
PROJECT ID: 105743
SHEET: P.561 TOTAL: P.1269

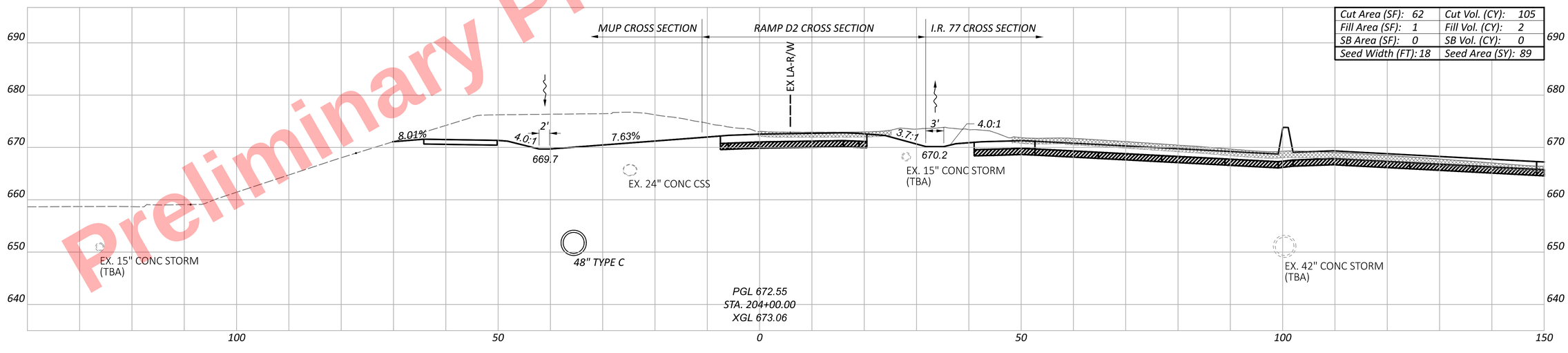
CUY-77-11.41 - PART 1

MODEL: BLP_R329_D2 - 203+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:50:26 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS501.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 84	Cut Vol. (CY): 135
Fill Area (SF): 1	Fill Vol. (CY): 2
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 24	Seed Area (SY): 117



Cut Area (SF): 62	Cut Vol. (CY): 105
Fill Area (SF): 1	Fill Vol. (CY): 2
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 18	Seed Area (SY): 89

Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP D2
STA. 204+00.00 TO STA. 204+50.00

CUY-77-11.41 - PART 1

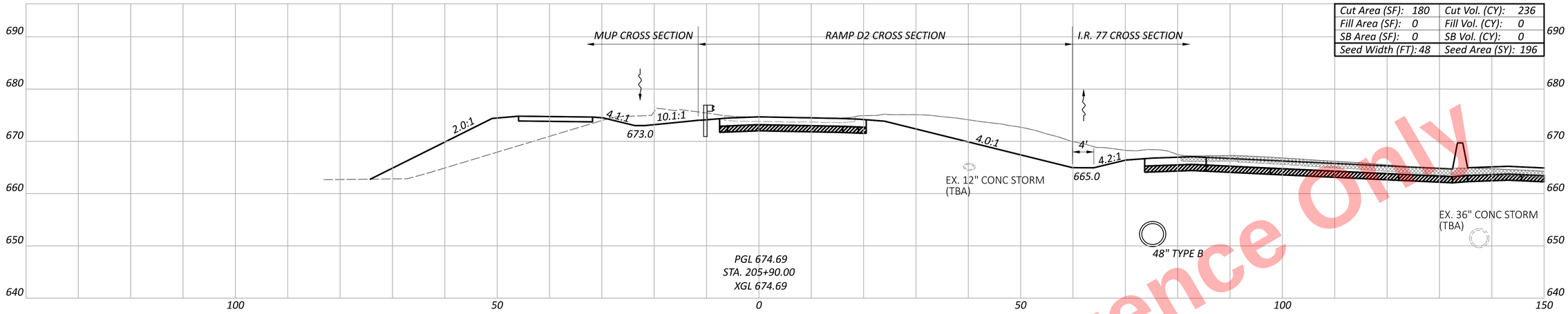
MODEL: BLP_R329_D2 - 204+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:50:50 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS501.dgn

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
206	240	4	0

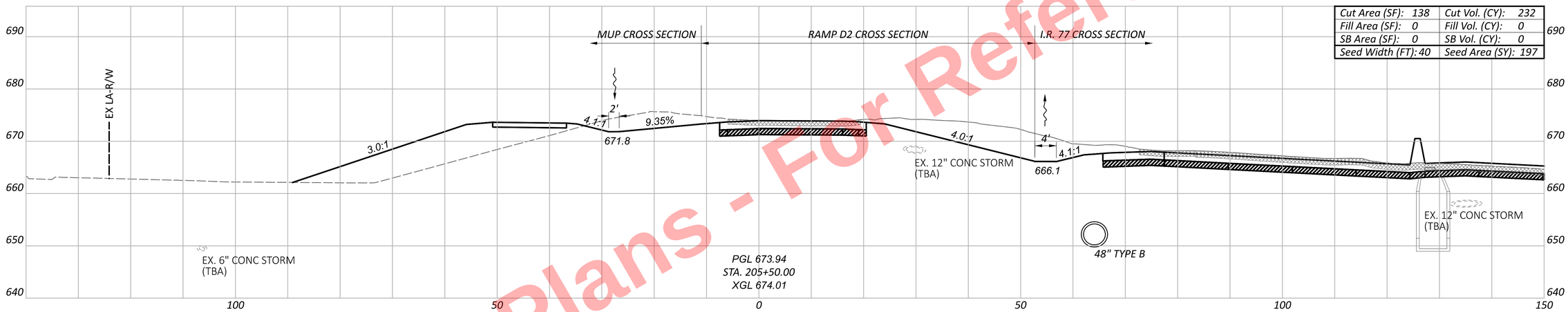
DESIGN AGENCY
HNTB

DESIGNER	AS
REVIEWER	MTR 04/01/22
PROJECT ID	105743
SHEET	P.562
TOTAL	P.1269

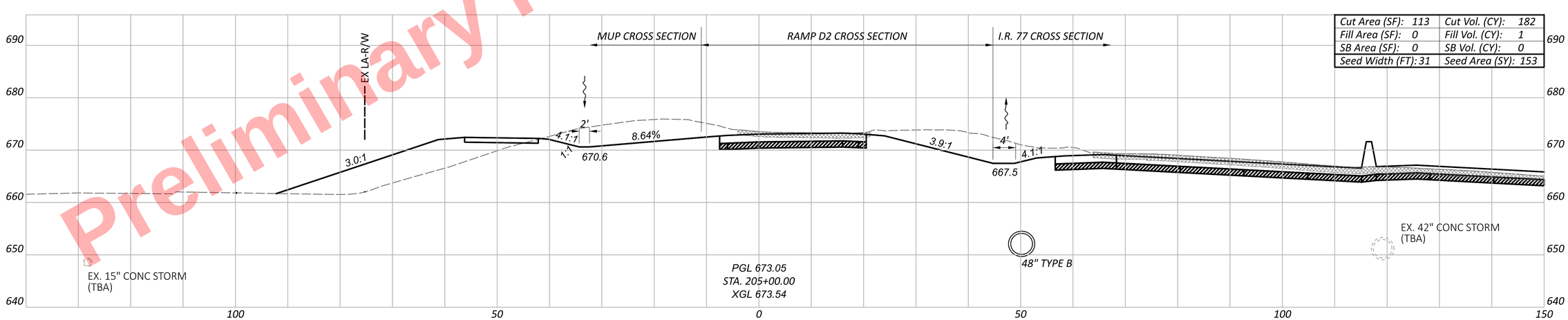
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	180	Cut Vol. (CY):	236
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	48	Seed Area (SY):	196



Cut Area (SF):	138	Cut Vol. (CY):	232
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	40	Seed Area (SY):	197



Cut Area (SF):	113	Cut Vol. (CY):	182
Fill Area (SF):	0	Fill Vol. (CY):	1
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	31	Seed Area (SY):	153

Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP D2
STA. 205+00.00 TO END WORK

CUY-77-11.41 - PART 1

MODEL: BLP_R329_D2 - 205+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:50:55 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS501.dgn

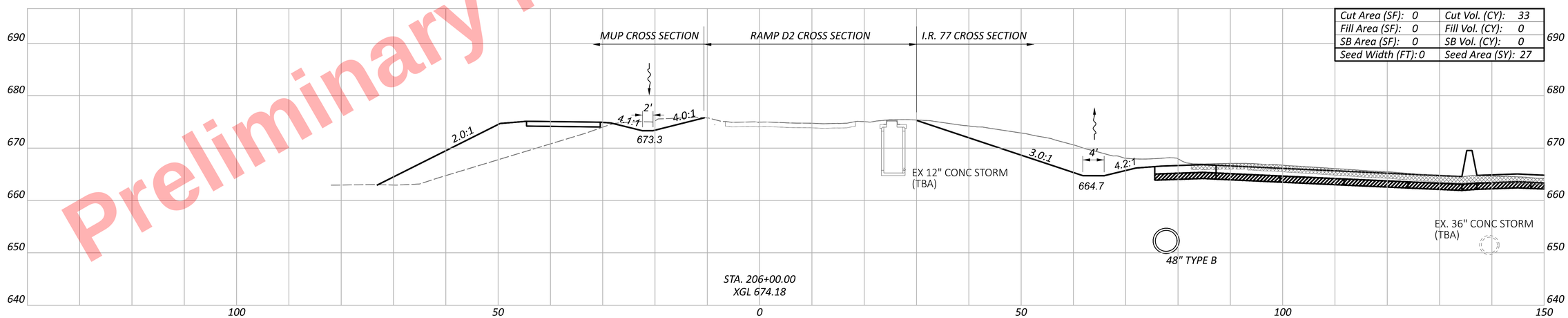
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
546	650	1	0

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER MTR 04/01/22
PROJECT ID 105743
SHEET P.563 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF): 0	Cut Vol. (CY): 33
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 0	Seed Area (SY): 27

CROSS SECTIONS - RAMP D2
STA. 206+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

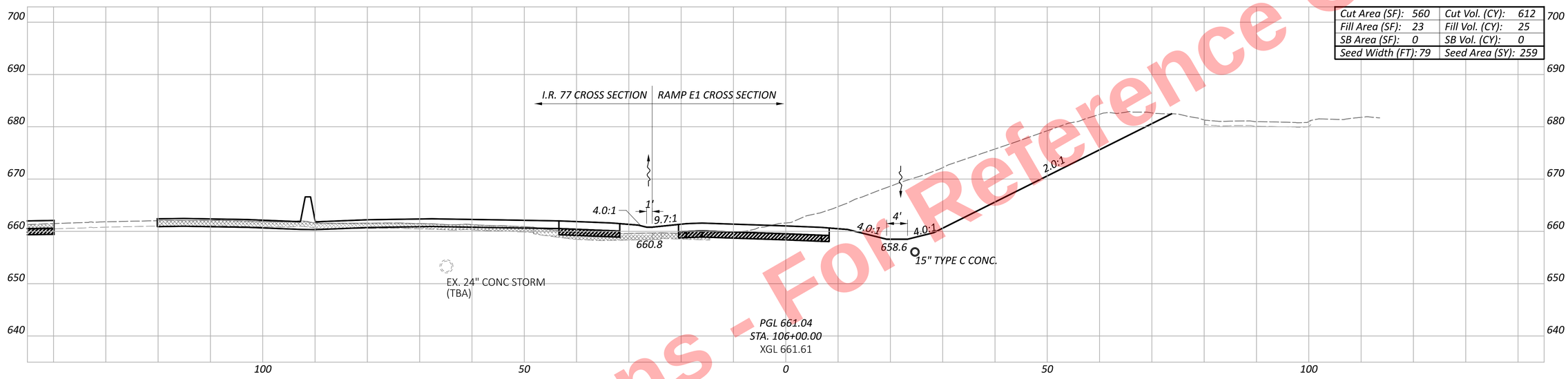
SHEET P.564 TOTAL P.1269

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
27	33	0	0

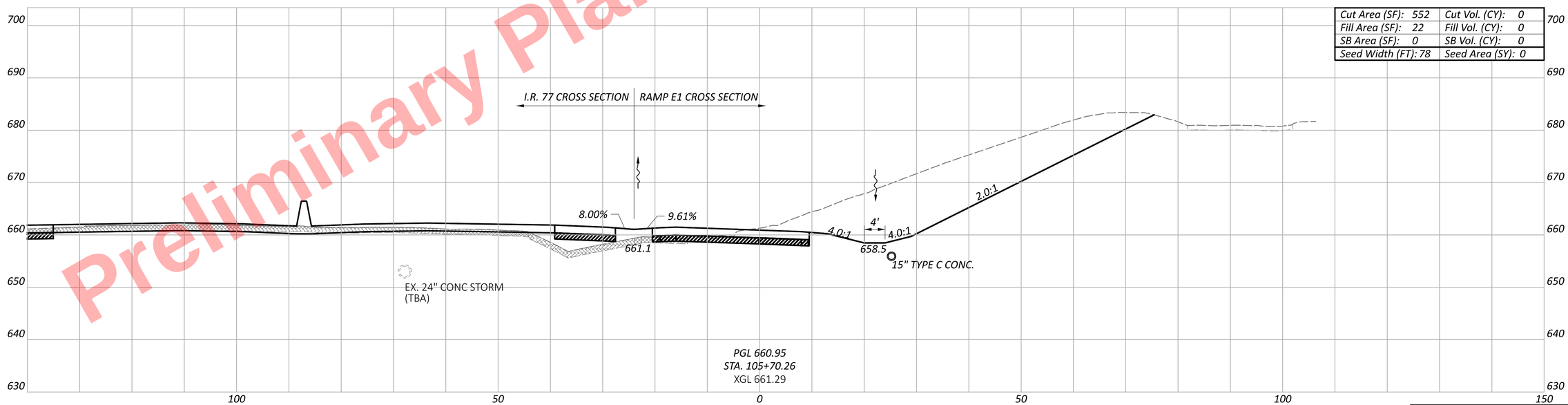
CUY-77-11.41 - PART 1

MODEL: BLP_R329_D2 - 206+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:51:02 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\v400-Engineering\Engineering\Roadway\Sheets\105743_XS501.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	560	Cut Vol. (CY):	612
Fill Area (SF):	23	Fill Vol. (CY):	25
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	79	Seed Area (SY):	259



Cut Area (SF):	552	Cut Vol. (CY):	0
Fill Area (SF):	22	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	78	Seed Area (SY):	0

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: BLP_R043_E1 - 105+70.26 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:51:17 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS601.dgn

CROSS SECTIONS - RAMP E1
PHYSICAL GORE TO STA. 106+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

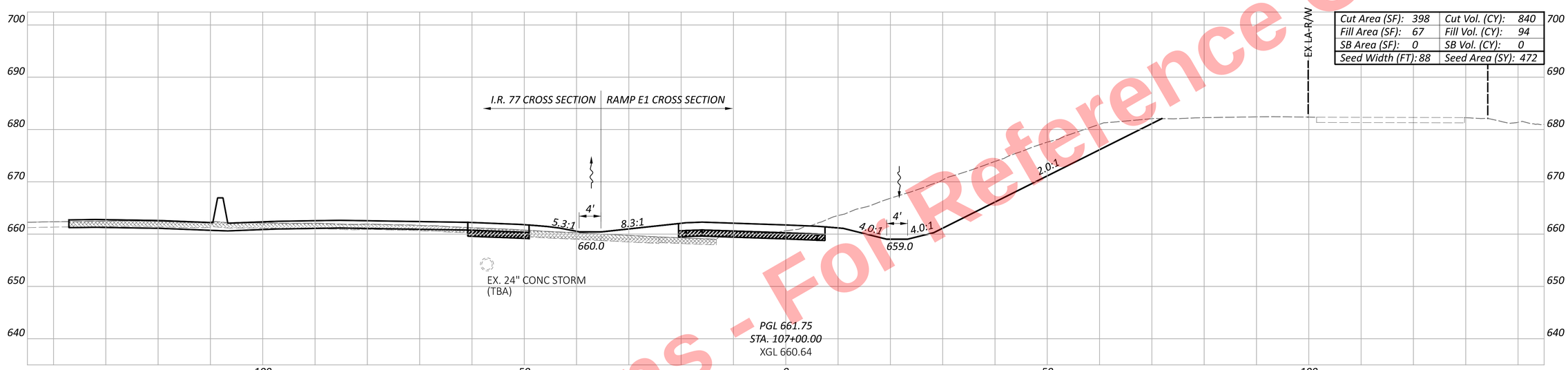
REVIEWER
MTR 04/01/22

PROJECT ID
105743

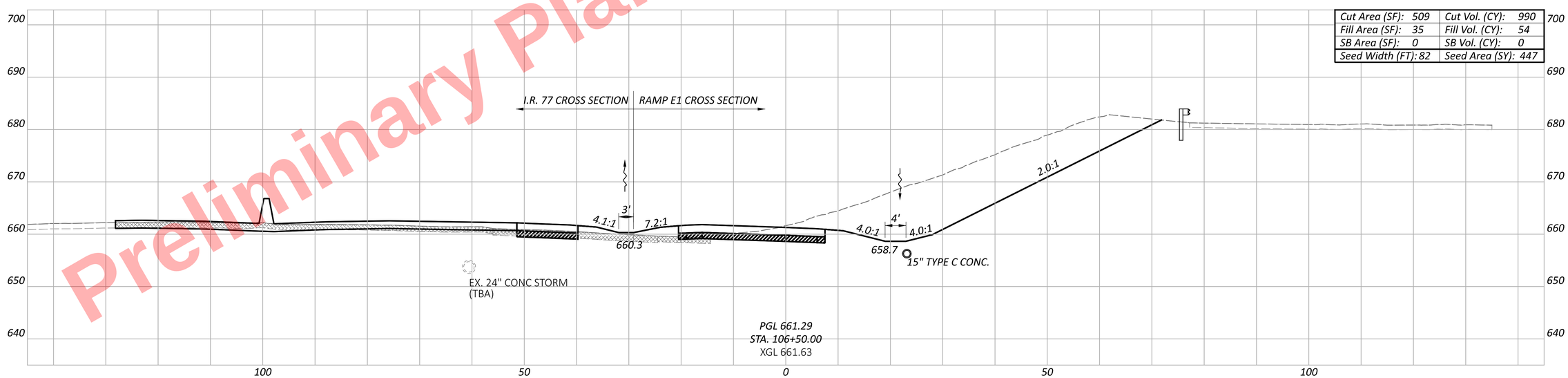
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
259	612	25	0

SHEET P.565 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	398	Cut Vol. (CY):	840
Fill Area (SF):	67	Fill Vol. (CY):	94
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	88	Seed Area (SY):	472



Cut Area (SF):	509	Cut Vol. (CY):	990
Fill Area (SF):	35	Fill Vol. (CY):	54
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	82	Seed Area (SY):	447

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: BLP_R043_E1 - 106+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:51:19 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\X00-Engineering\Roadway\Sheets\105743_XS601.dgn

CROSS SECTIONS - RAMP E1
STA. 106+50.00 TO STA. 107+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

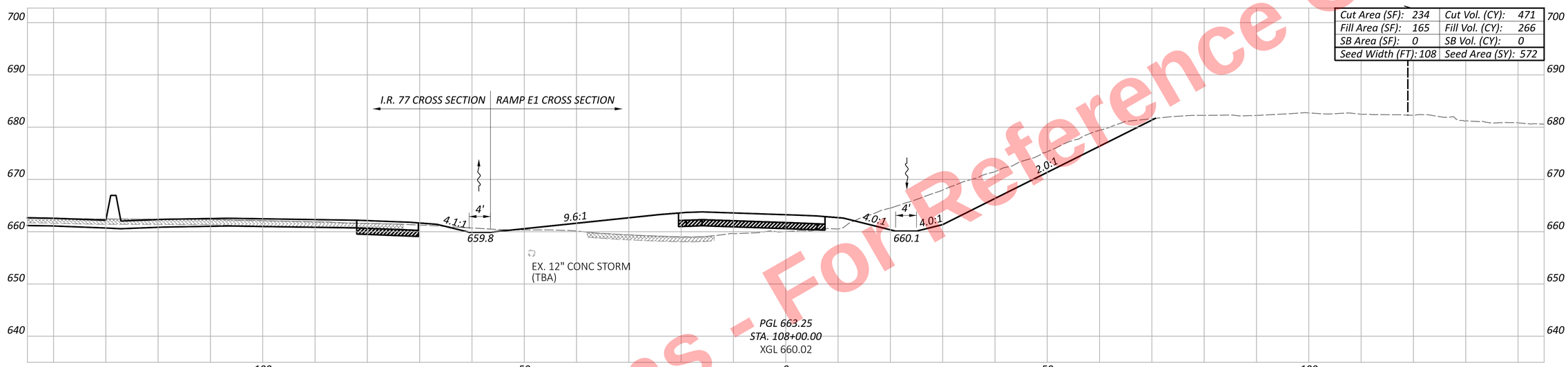
REVIEWER
MTR 04/01/22

PROJECT ID
105743

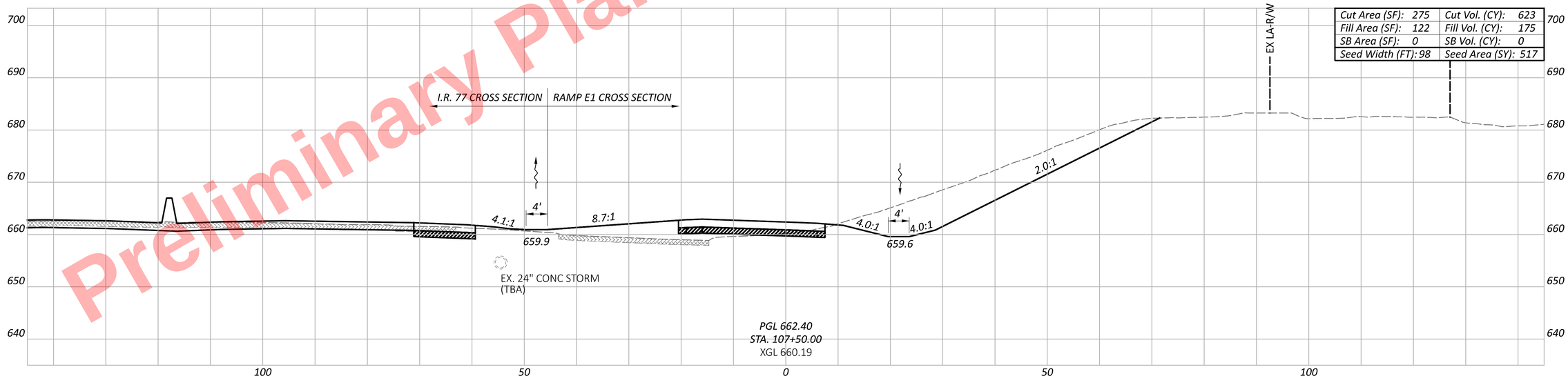
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
919	1830	148	0

SHEET P.566 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	234	Cut Vol. (CY):	471
Fill Area (SF):	165	Fill Vol. (CY):	266
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	108	Seed Area (SY):	572



Cut Area (SF):	275	Cut Vol. (CY):	623
Fill Area (SF):	122	Fill Vol. (CY):	175
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	98	Seed Area (SY):	517

Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP E1
STA. 107+50.00 TO STA. 108+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1089	1094	441	0

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

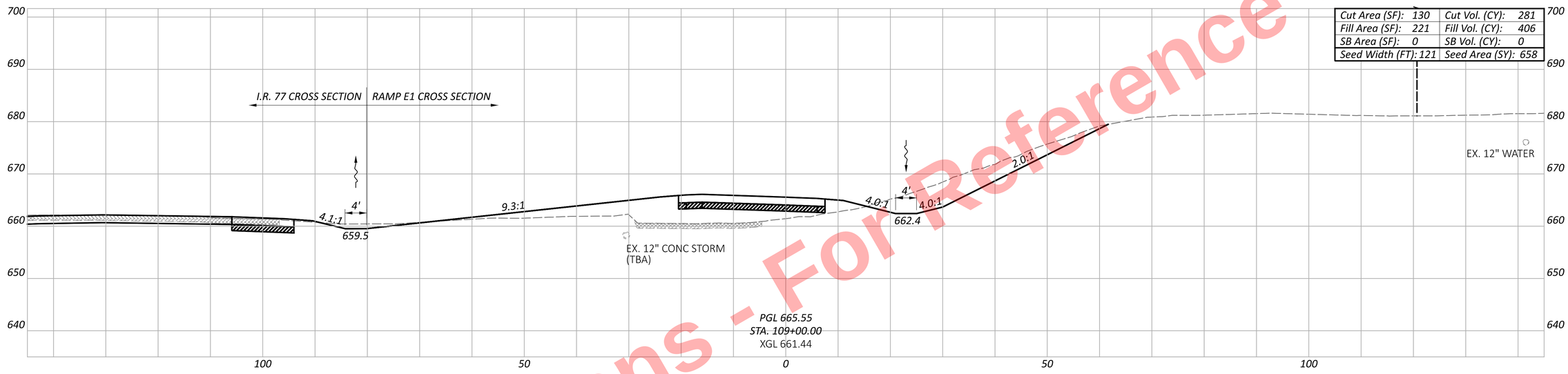
PROJECT ID
105743

SHEET P.567 TOTAL P.1269

CUY-77-11.41 - PART 1

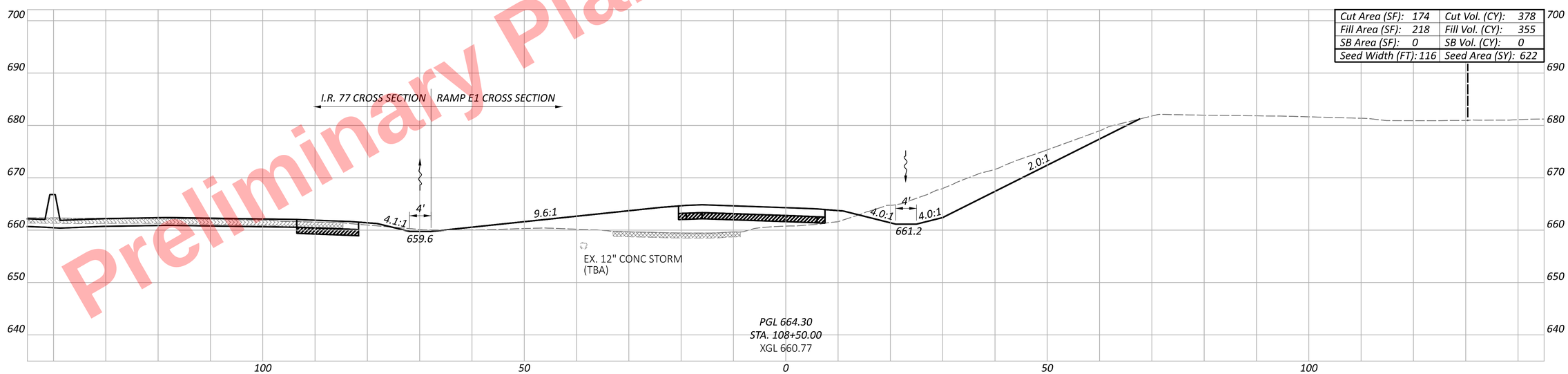
MODEL: BLP_R043_E1 - 107+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:51:20 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\v00-Engineering\Roadway\Sheets\105743_XS601.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	130	Cut Vol. (CY):	281
Fill Area (SF):	221	Fill Vol. (CY):	406
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	121	Seed Area (SY):	658

PGL 665.55
STA. 109+00.00
XGL 661.44



Cut Area (SF):	174	Cut Vol. (CY):	378
Fill Area (SF):	218	Fill Vol. (CY):	355
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	116	Seed Area (SY):	622

PGL 664.30
STA. 108+50.00
XGL 660.77

Preliminary Plans - For Reference Only

CROSS SECTIONS - RAMP E1
STA. 108+50.00 TO STA. 109+00.00

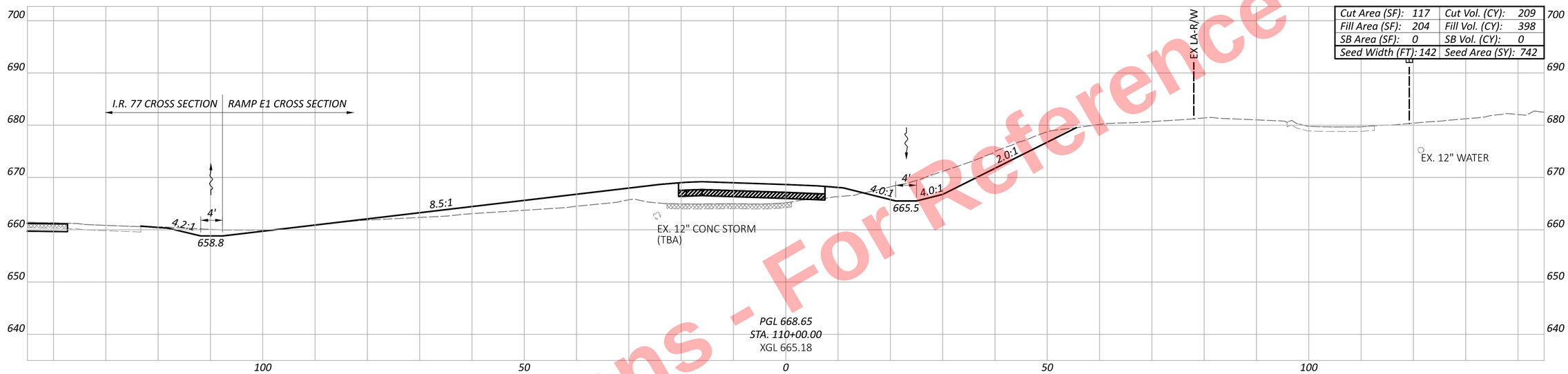
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1280	659	761	0

DESIGN AGENCY: HNTB
DESIGNER: AS
REVIEWER: MTR 04/01/22
PROJECT ID: 105743
SHEET: P.568 TOTAL: P.1269

CUY-77-11.41 - PART 1

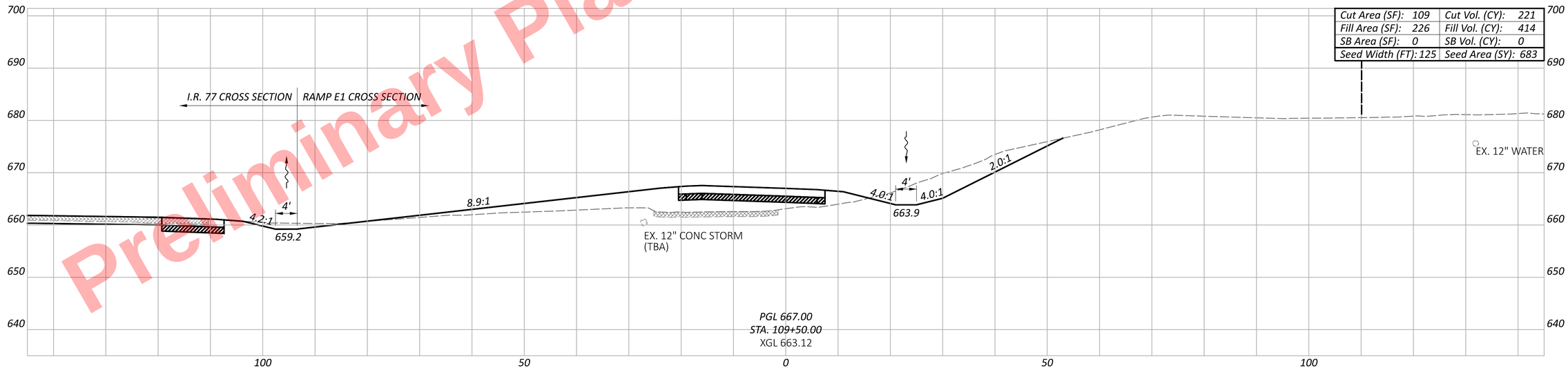
MODEL: BLP_R043_E1 - 108+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:51:22 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS601.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	117	Cut Vol. (CY):	209
Fill Area (SF):	204	Fill Vol. (CY):	398
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	142	Seed Area (SY):	742

PGL 668.65
STA. 110+00.00
XGL 665.18



Cut Area (SF):	109	Cut Vol. (CY):	221
Fill Area (SF):	226	Fill Vol. (CY):	414
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	125	Seed Area (SY):	683

PGL 667.00
STA. 109+50.00
XGL 663.12

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1425	430	812	0

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

CROSS SECTIONS - RAMP E1
STA. 109+50.00 TO STA. 110+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

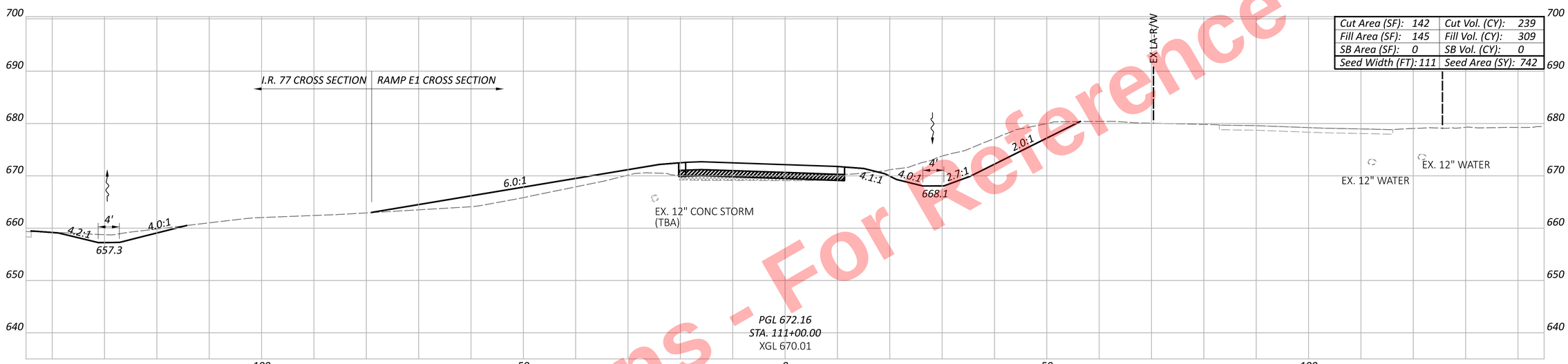
REVIEWER
MTR 04/01/22

PROJECT ID
105743

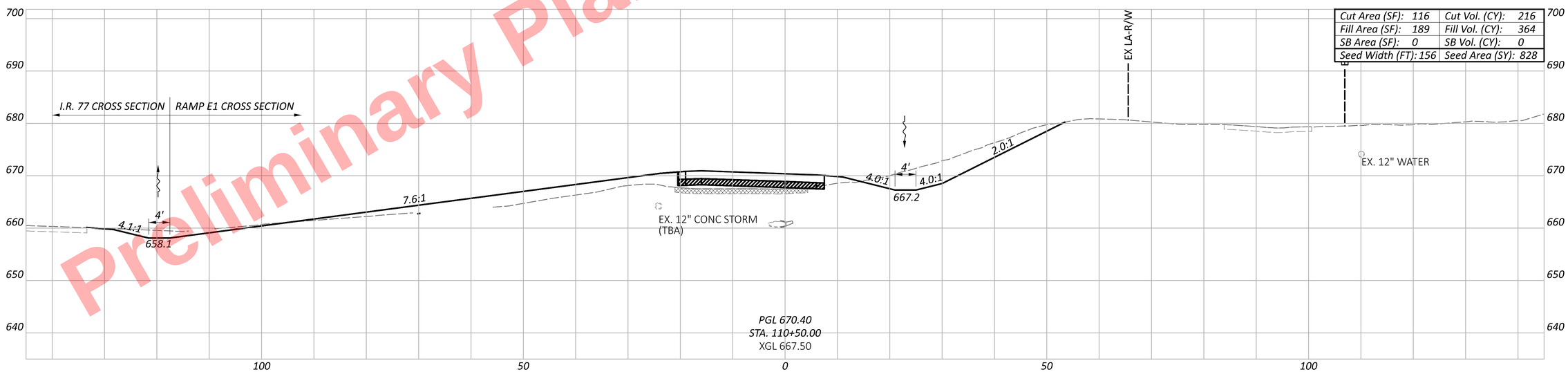
SHEET P.569 TOTAL P.1269

MODEL: BLP_R043_E1 - 109+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:51:23 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS601.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	142	Cut Vol. (CY):	239
Fill Area (SF):	145	Fill Vol. (CY):	309
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	111	Seed Area (SY):	742



Cut Area (SF):	116	Cut Vol. (CY):	216
Fill Area (SF):	189	Fill Vol. (CY):	364
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	156	Seed Area (SY):	828

Preliminary Plans - For Reference Only

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1570	455	673	0

CUY-77-11.41 - PART 1

CROSS SECTIONS - RAMP E1
STA. 110+50.00 TO STA. 111+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

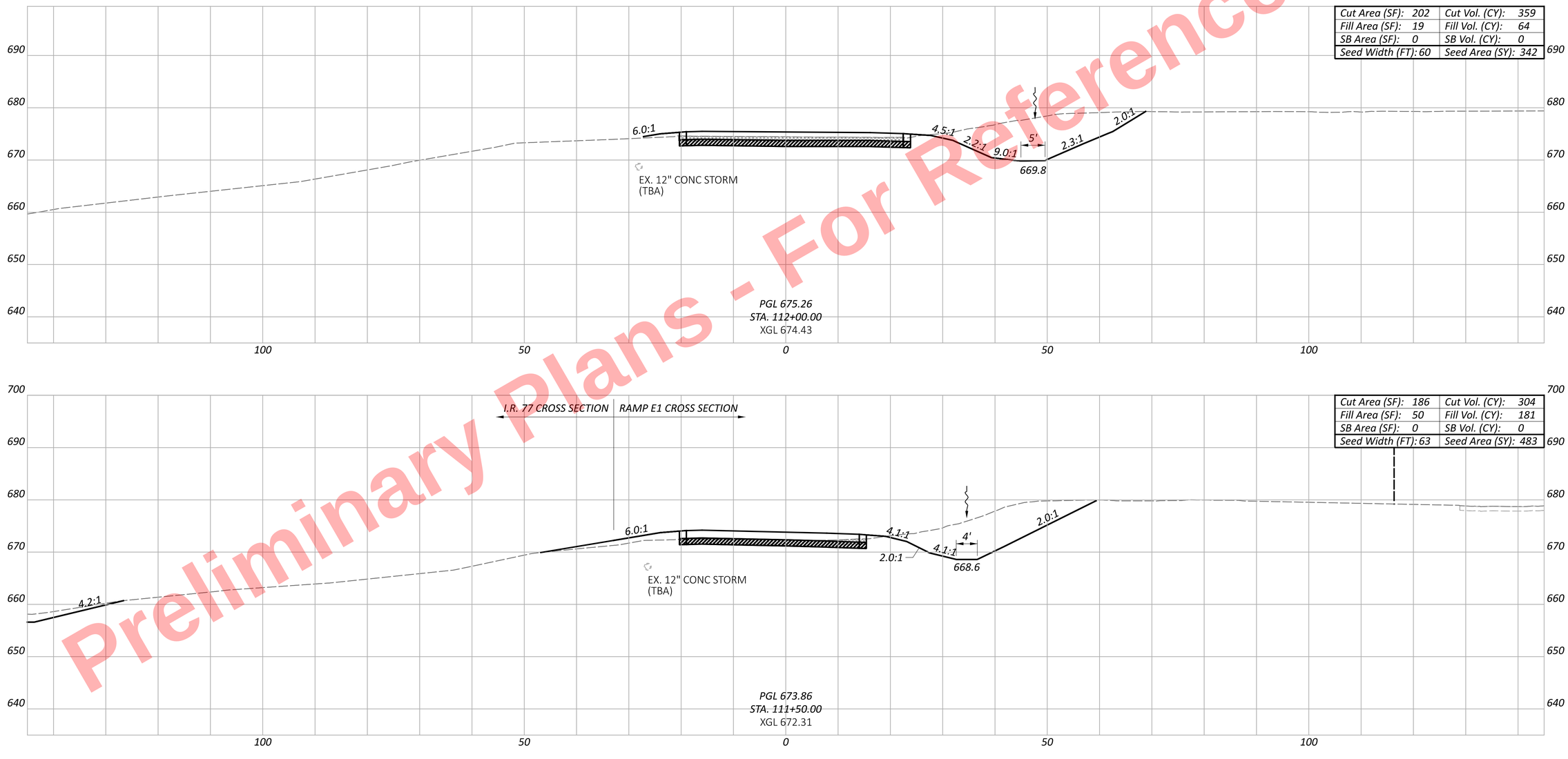
REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.570 TOTAL P.1269

MODEL: BLP_R043_E1 - 110+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:51:25 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS601.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: BLP_R043_E1 - 111+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 9:48:57 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS601.dgn

CROSS SECTIONS - RAMP E1
STA. 111+50.00 TO STA. 112+00.00

DESIGN AGENCY
HNTB

DESIGNER
AS

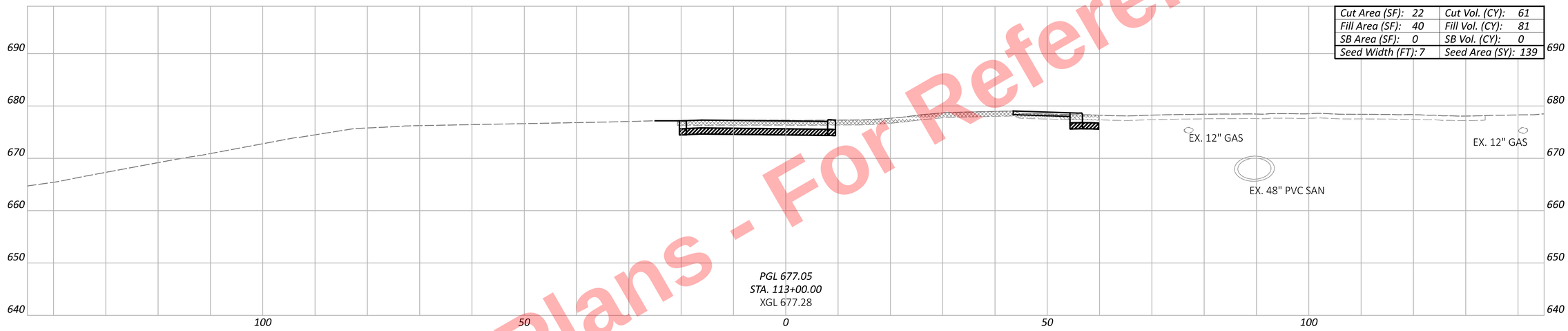
REVIEWER
MTR 04/01/22

PROJECT ID
105743

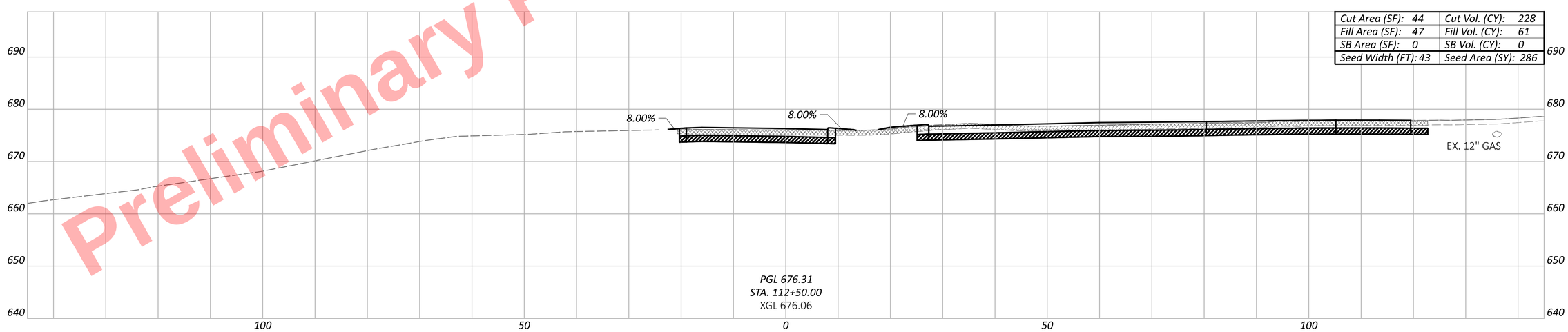
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
825	663	245	0

SHEET P.571 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 22	Cut Vol. (CY): 61
Fill Area (SF): 40	Fill Vol. (CY): 81
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 7	Seed Area (SY): 139



Cut Area (SF): 44	Cut Vol. (CY): 228
Fill Area (SF): 47	Fill Vol. (CY): 61
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 43	Seed Area (SY): 286

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: BLP_R043_E1 - 112+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:51:28 AM USER: kperkins
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CROSS SECTIONS - RAMP E1
STA. 112+50.00 TO END WORK

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
425	289	142	0

DESIGN AGENCY
HNTB

DESIGNER AS

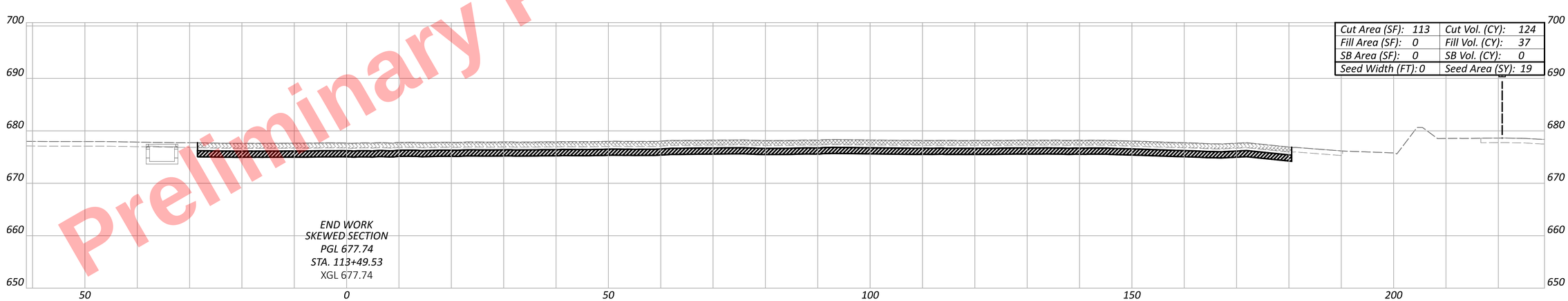
REVIEWER MTR 04/01/22

PROJECT ID 105743

SHEET P.572 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF): 113	Cut Vol. (CY): 124
Fill Area (SF): 0	Fill Vol. (CY): 37
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 0	Seed Area (SY): 19

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
19	124	37	0

CROSS SECTIONS - RAMP E1
STA. 113+50.00

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.573 TOTAL P.1269

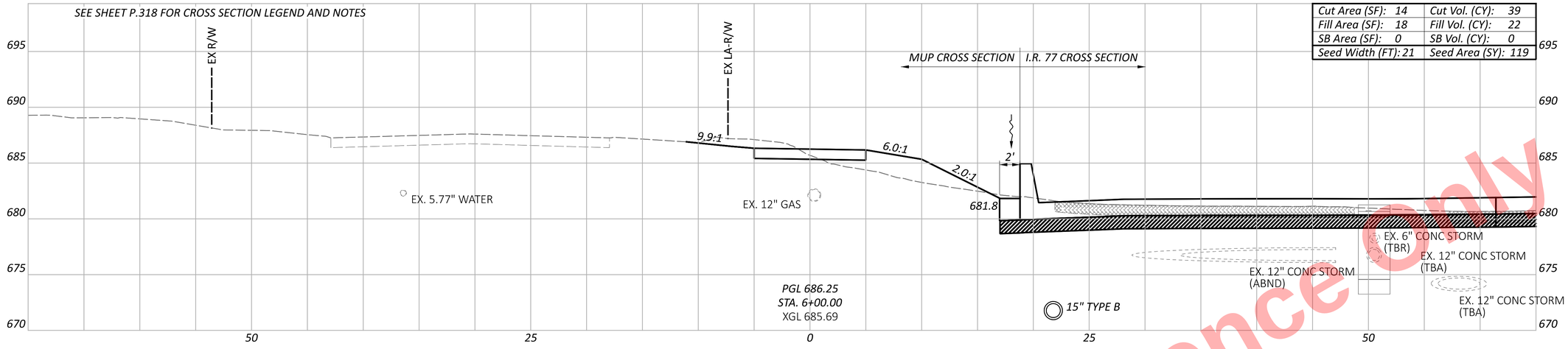
CUY-77-11.41 - PART 1

MODEL: BLP_R043_E1 - 113+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:51:30 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\v400-Engineering\Engineering\Roadway\Sheets\105743_XS601.dgn

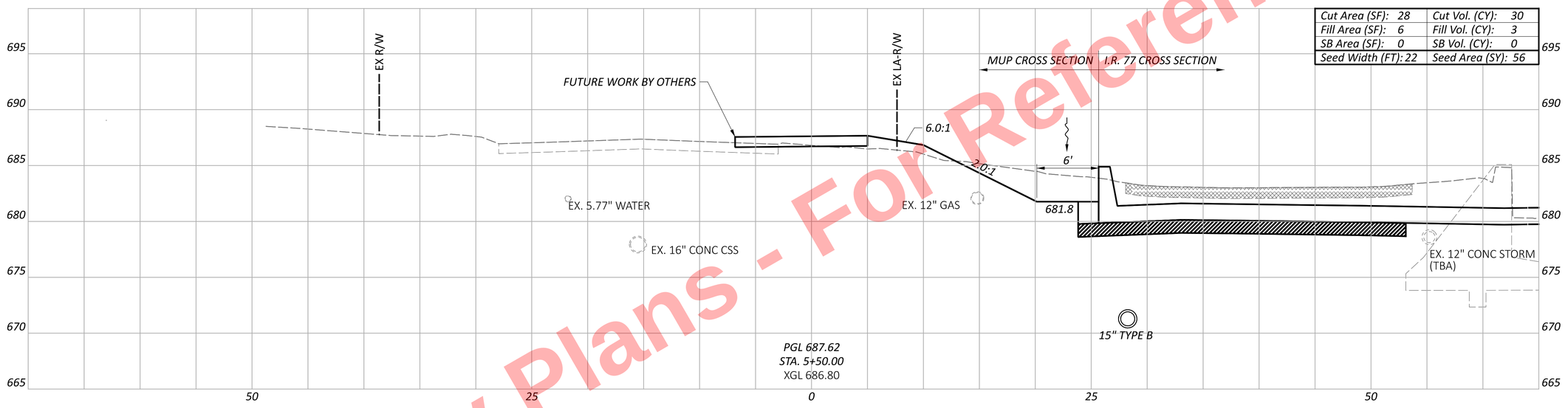
Preliminary Plans - For Reference Only

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

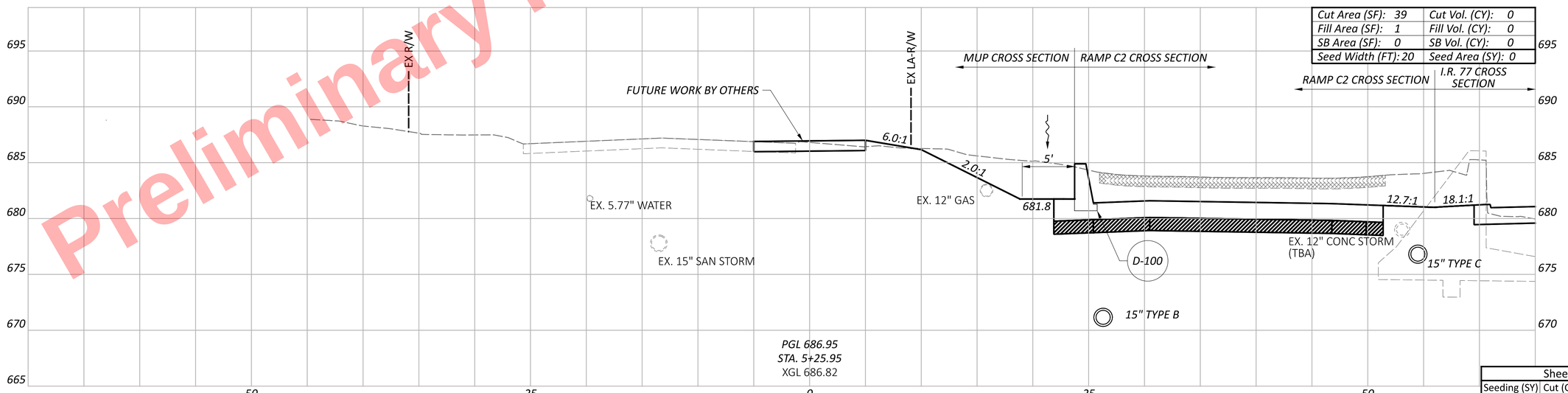
Cut Area (SF):	14	Cut Vol. (CY):	39
Fill Area (SF):	18	Fill Vol. (CY):	22
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	21	Seed Area (SY):	119



Cut Area (SF):	28	Cut Vol. (CY):	30
Fill Area (SF):	6	Fill Vol. (CY):	3
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	22	Seed Area (SY):	56



Cut Area (SF):	39	Cut Vol. (CY):	0
Fill Area (SF):	1	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	20	Seed Area (SY):	0



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
175	69	25	0

CUY-77-11.41 - PART 1

CROSS SECTIONS - MUP WEST
BEGIN TO STA. 6+00.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

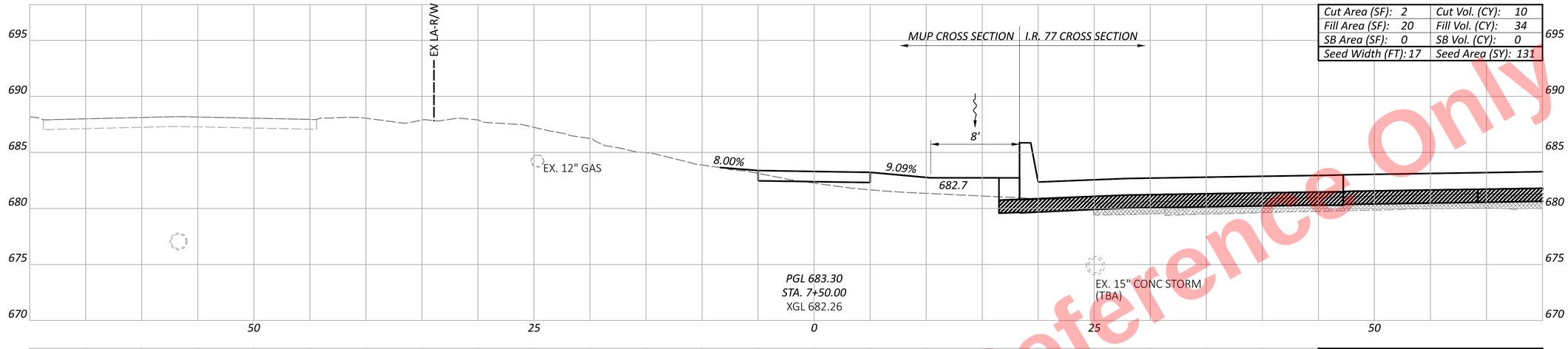
REVIEWER
AS 11/05/25

PROJECT ID
105743

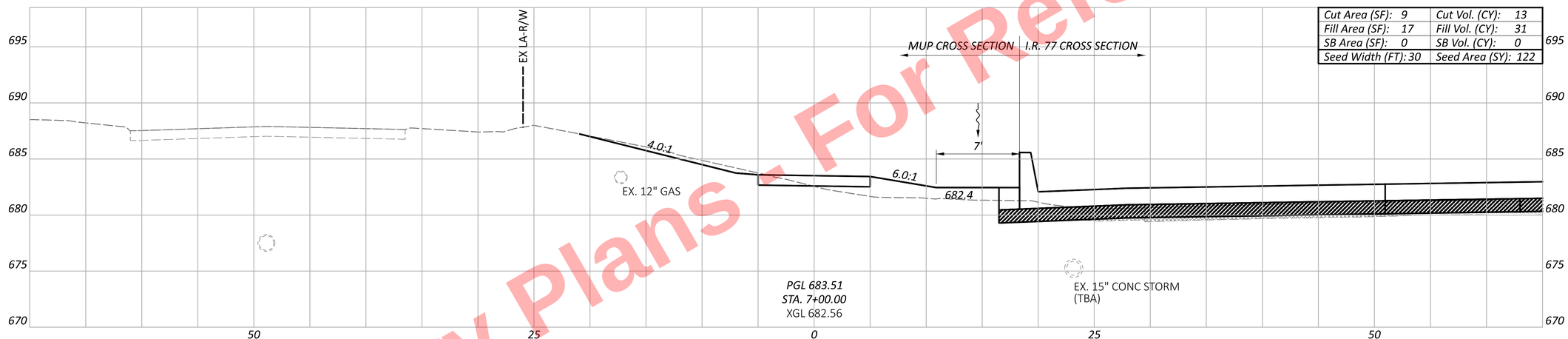
SHEET P.574 TOTAL P.1269

MODEL: CLP_MUP - 5+25.95 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:02:45 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

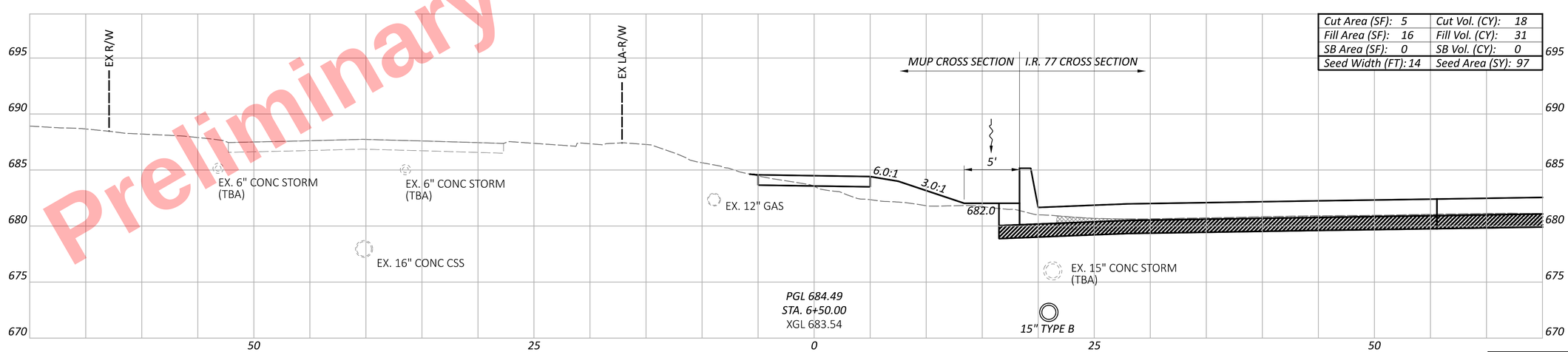
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 2	Cut Vol. (CY): 10
Fill Area (SF): 20	Fill Vol. (CY): 34
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 17	Seed Area (SY): 131



Cut Area (SF): 9	Cut Vol. (CY): 13
Fill Area (SF): 17	Fill Vol. (CY): 31
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 30	Seed Area (SY): 122



Cut Area (SF): 5	Cut Vol. (CY): 18
Fill Area (SF): 16	Fill Vol. (CY): 31
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 14	Seed Area (SY): 97

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 6+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:02:54 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

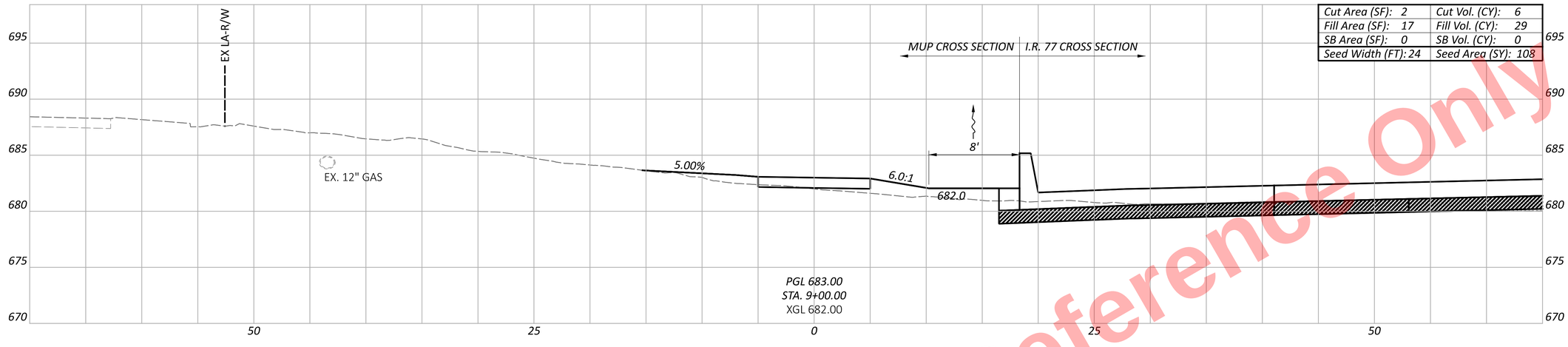
CROSS SECTIONS - MUP WEST
STA. 6+50.00 TO STA. 7+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
350	41	96	0

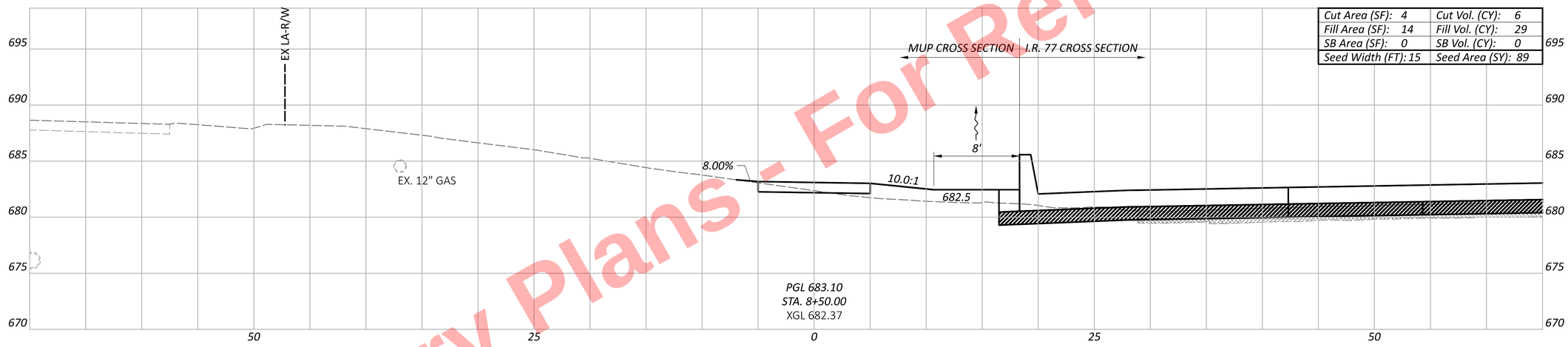
DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.575 TOTAL P.1269

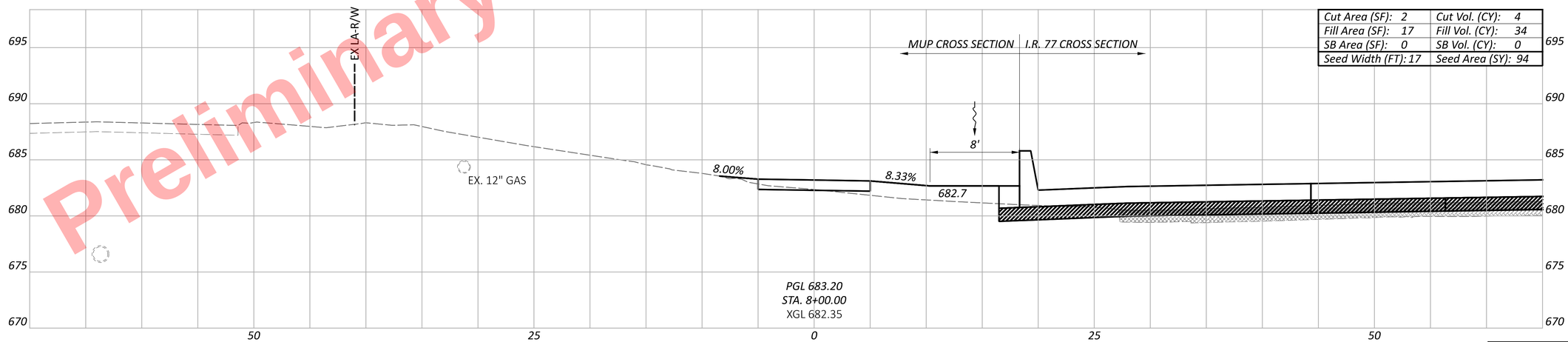
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 2	Cut Vol. (CY): 6
Fill Area (SF): 17	Fill Vol. (CY): 29
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 24	Seed Area (SY): 108



Cut Area (SF): 4	Cut Vol. (CY): 6
Fill Area (SF): 14	Fill Vol. (CY): 29
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 15	Seed Area (SY): 89



Cut Area (SF): 2	Cut Vol. (CY): 4
Fill Area (SF): 17	Fill Vol. (CY): 34
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 17	Seed Area (SY): 94

Preliminary Plans - For Reference Only

CROSS SECTIONS - MUP WEST
STA. 8+00.00 TO STA. 9+00.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

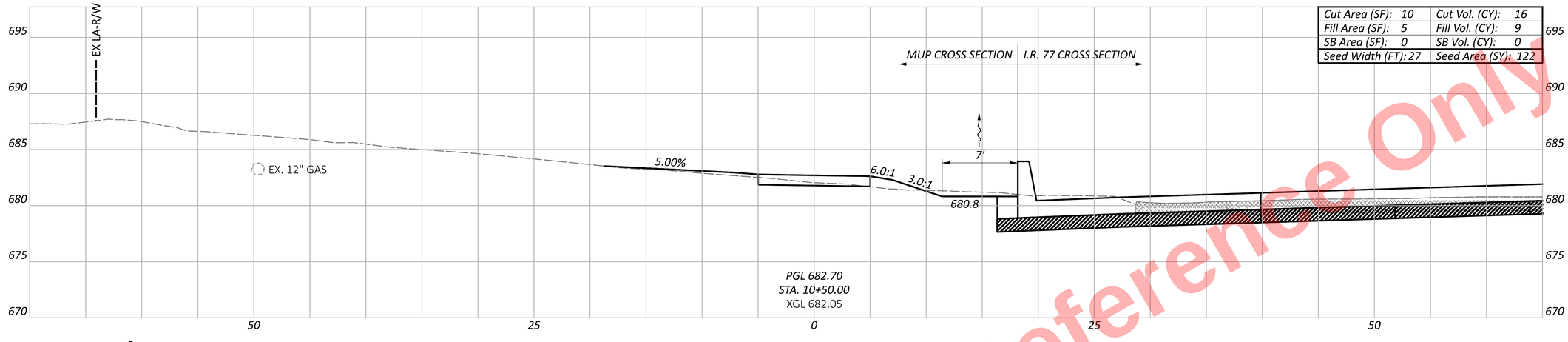
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
291	16	92	0

SHEET P.576 TOTAL P.1269

CUY-77-11.41 - PART 1

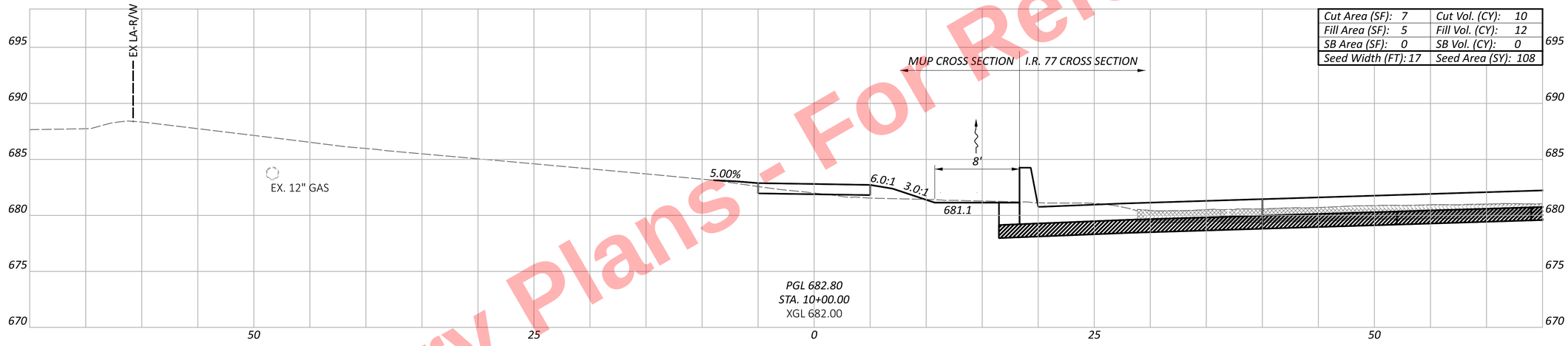
MODEL: CLP_MUP - 8+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:02:58 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



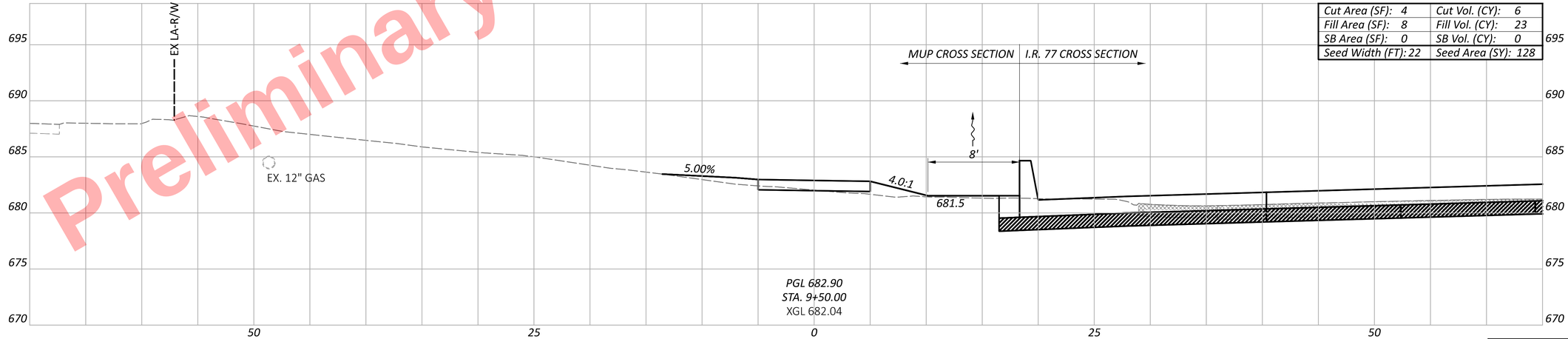
Cut Area (SF):	10	Cut Vol. (CY):	16
Fill Area (SF):	5	Fill Vol. (CY):	9
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	27	Seed Area (SY):	122

PGL 682.70
STA. 10+50.00
XGL 682.05



Cut Area (SF):	7	Cut Vol. (CY):	10
Fill Area (SF):	5	Fill Vol. (CY):	12
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	17	Seed Area (SY):	108

PGL 682.80
STA. 10+00.00
XGL 682.00



Cut Area (SF):	4	Cut Vol. (CY):	6
Fill Area (SF):	8	Fill Vol. (CY):	23
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	22	Seed Area (SY):	128

PGL 682.90
STA. 9+50.00
XGL 682.04

Preliminary Plans - For Reference Only

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
358	32	44	0

CROSS SECTIONS - MUP WEST
STA. 9+50.00 TO STA. 10+50.00

CUY-77-11.41 - PART 1

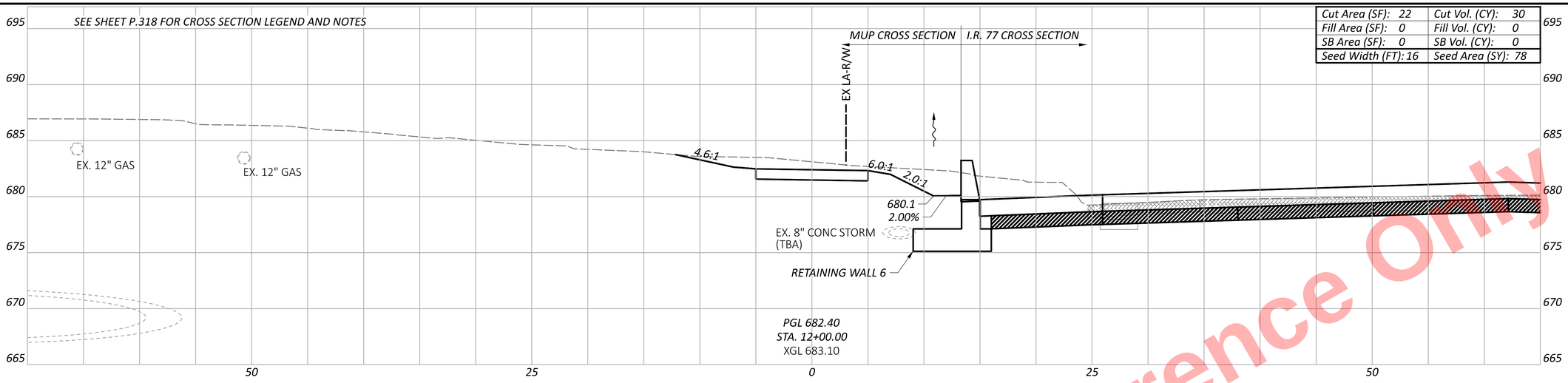
DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.577 TOTAL P.1269

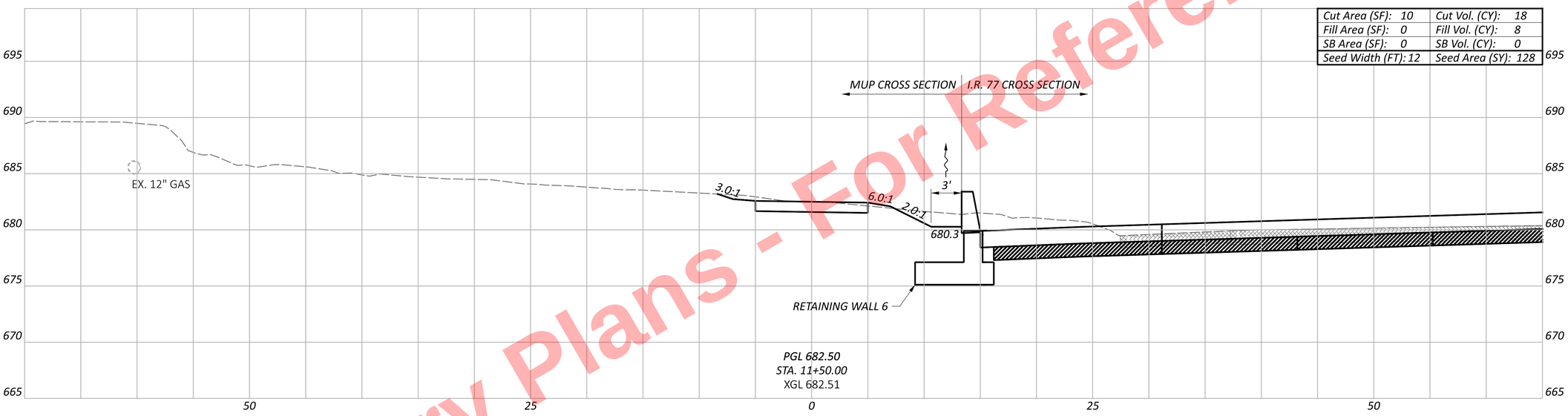
MODEL: CLP_MUP - 9+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:03:03 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_XS701.dgn

Preliminary Plans - For Reference Only

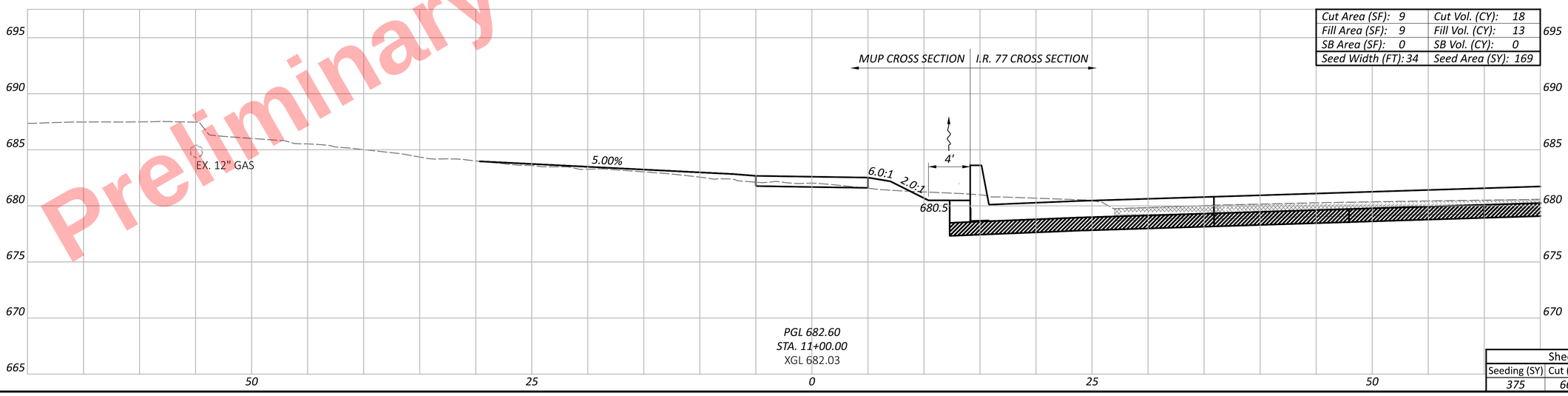
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	22	Cut Vol. (CY):	30
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	16	Seed Area (SY):	78



Cut Area (SF):	10	Cut Vol. (CY):	18
Fill Area (SF):	0	Fill Vol. (CY):	8
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	12	Seed Area (SY):	128



Cut Area (SF):	9	Cut Vol. (CY):	18
Fill Area (SF):	9	Fill Vol. (CY):	13
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	34	Seed Area (SY):	169

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
375	66	21	0

CUY-77-11.41 - PART 1

CROSS SECTIONS - MUP WEST
STA. 11+00.00 TO STA. 12+00.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
AS 11/05/25

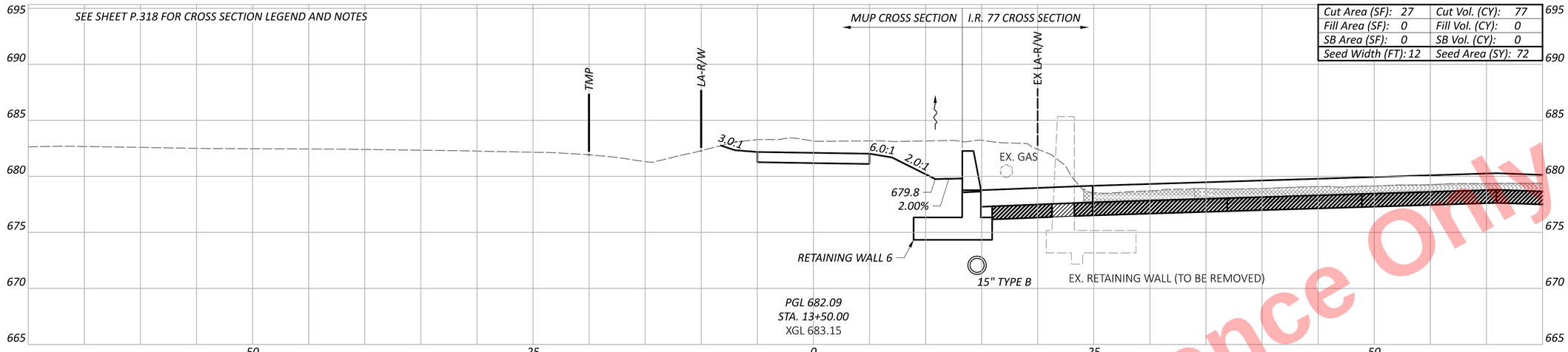
PROJECT ID
105743

SHEET	TOTAL
P.578	P.1269

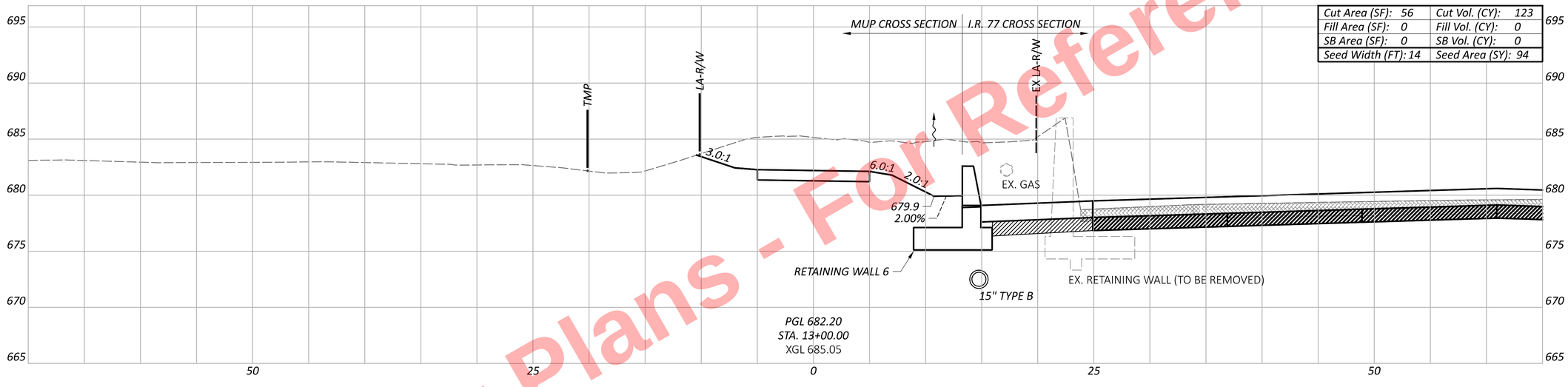
MODEL: CLP_MUP - 11+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:03:08 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_XS701.dgn

Preliminary Plans - For Reference Only

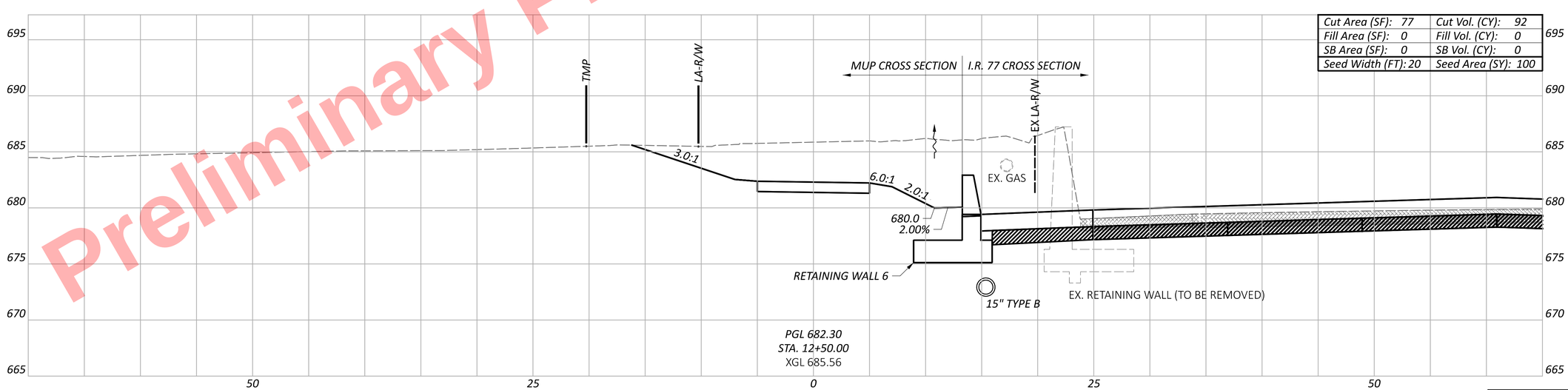
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	27	Cut Vol. (CY):	77
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	12	Seed Area (SY):	72



Cut Area (SF):	56	Cut Vol. (CY):	123
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	14	Seed Area (SY):	94



Cut Area (SF):	77	Cut Vol. (CY):	92
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	20	Seed Area (SY):	100

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
266	292	0	0

CUY-77-11.41 - PART 1

CROSS SECTIONS - MUP WEST
STA. 12+50.00 TO STA. 13+50.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

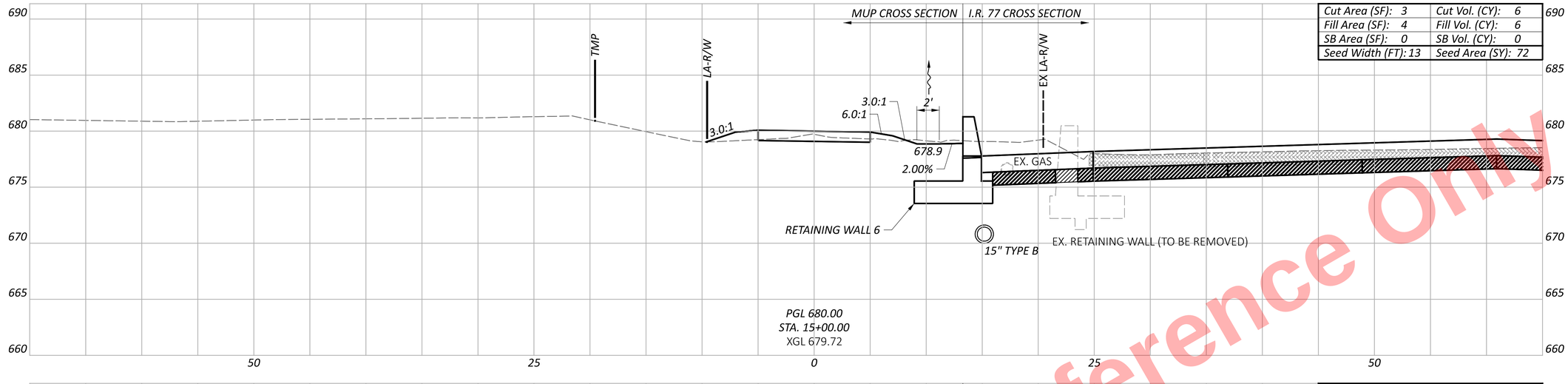
REVIEWER
AS 11/05/25

PROJECT ID
105743

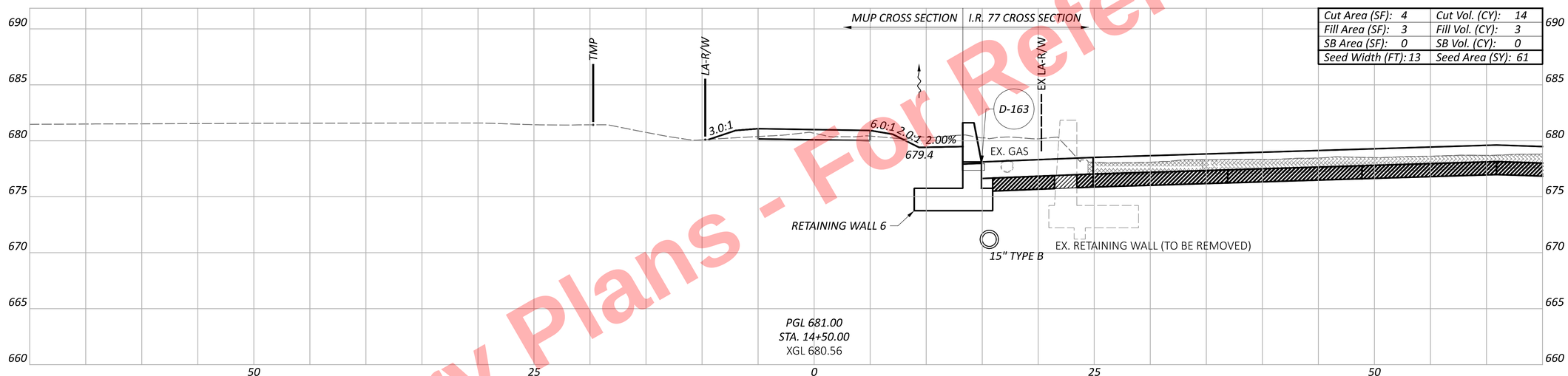
SHEET P.579 | TOTAL P.1269

MODEL: CLP_MUP - 12+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:03:13 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

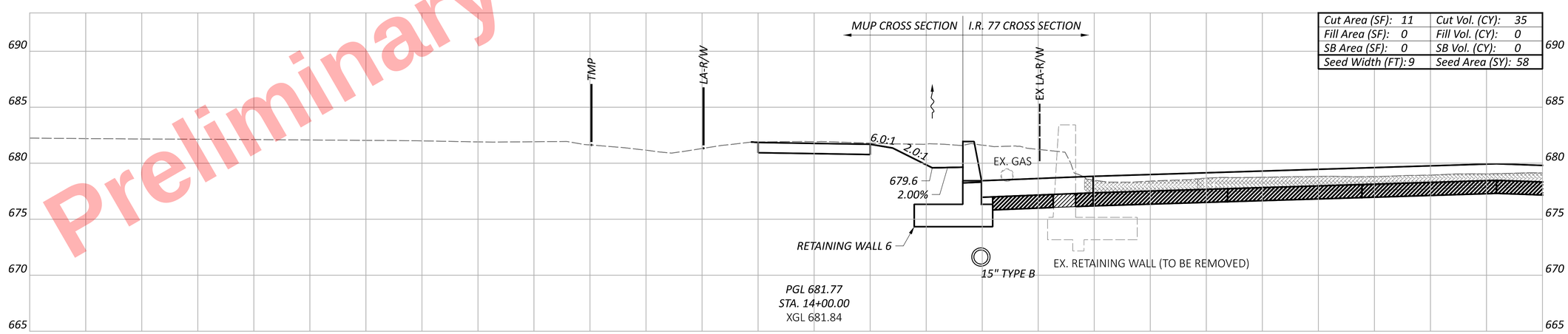
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	3	Cut Vol. (CY):	6
Fill Area (SF):	4	Fill Vol. (CY):	6
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	13	Seed Area (SY):	72



Cut Area (SF):	4	Cut Vol. (CY):	14
Fill Area (SF):	3	Fill Vol. (CY):	3
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	13	Seed Area (SY):	61



Cut Area (SF):	11	Cut Vol. (CY):	35
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	9	Seed Area (SY):	58

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
191	55	9	0

Preliminary Plans - For Reference Only

CROSS SECTIONS - MUP WEST
STA. 14+00.00 TO STA. 15+00.00

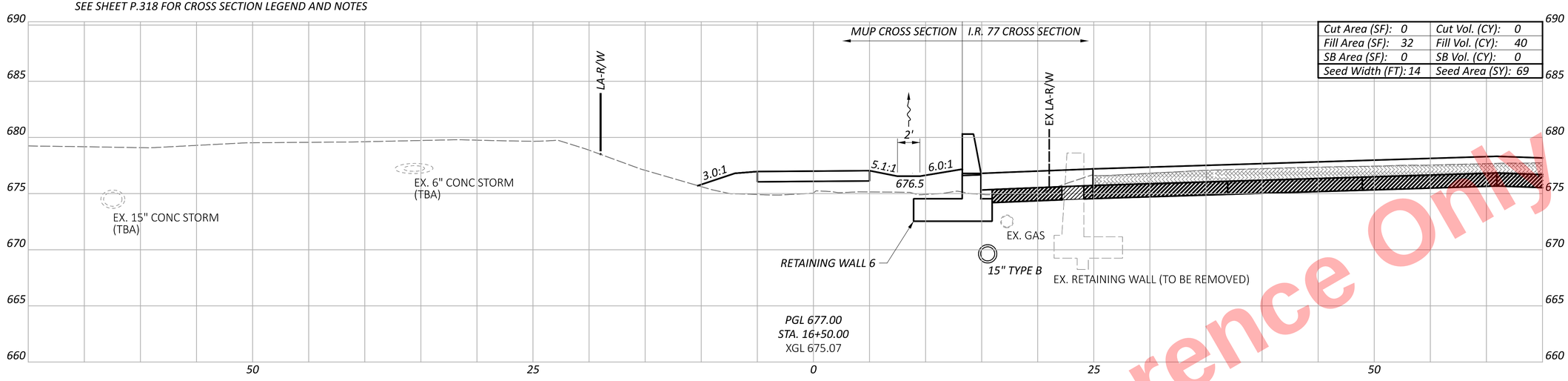
DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.580 TOTAL P.1269

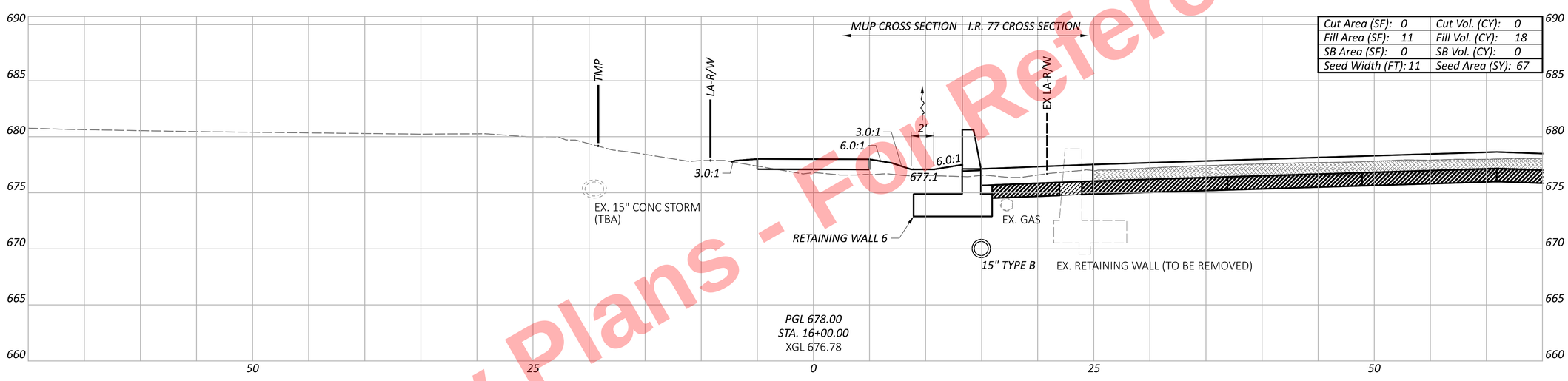
CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 14+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:03:18 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

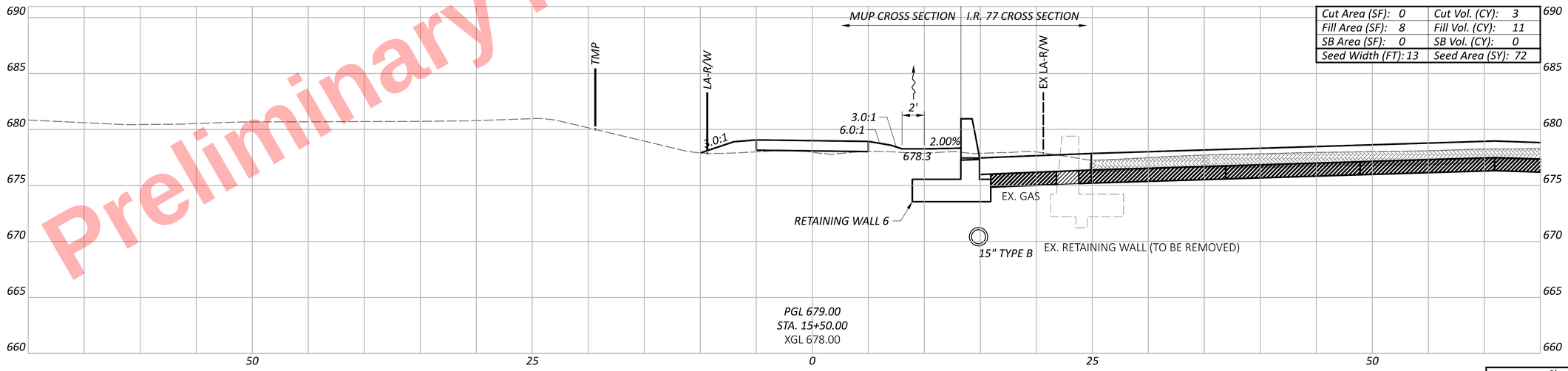
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	0	Cut Vol. (CY):	0
Fill Area (SF):	32	Fill Vol. (CY):	40
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	14	Seed Area (SY):	69



Cut Area (SF):	0	Cut Vol. (CY):	0
Fill Area (SF):	11	Fill Vol. (CY):	18
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	11	Seed Area (SY):	67



Cut Area (SF):	0	Cut Vol. (CY):	3
Fill Area (SF):	8	Fill Vol. (CY):	11
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	13	Seed Area (SY):	72

Preliminary Plans - For Reference Only

CROSS SECTIONS - MUP WEST
STA. 15+50.00 TO STA. 16+50.00

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 15+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:03:23 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

DESIGN AGENCY
HNTB

DESIGNER
KMM

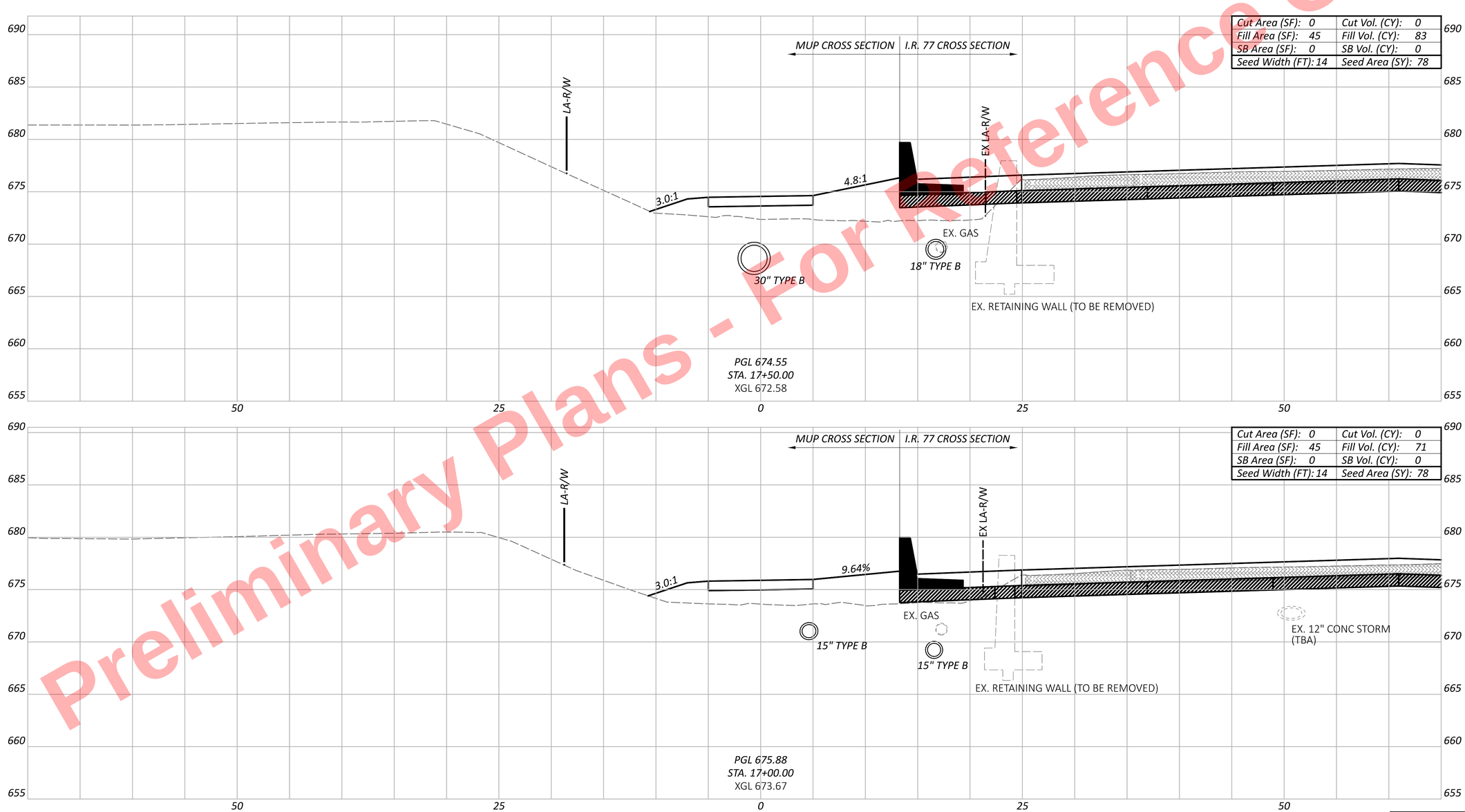
REVIEWER
AS 11/05/25

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
208	3	69	0

SHEET P.581 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 0	Cut Vol. (CY): 0		
Fill Area (SF): 45	Fill Vol. (CY): 83		
SB Area (SF): 0	SB Vol. (CY): 0		
Seed Width (FT): 14	Seed Area (SY): 78		

PGL 674.55
STA. 17+50.00
XGL 672.58

Cut Area (SF): 0	Cut Vol. (CY): 0		
Fill Area (SF): 45	Fill Vol. (CY): 71		
SB Area (SF): 0	SB Vol. (CY): 0		
Seed Width (FT): 14	Seed Area (SY): 78		

PGL 675.88
STA. 17+00.00
XGL 673.67

Preliminary Plans - For Reference Only

CROSS SECTIONS - MUP WEST
STA. 17+00.00 TO STA. 17+50.00

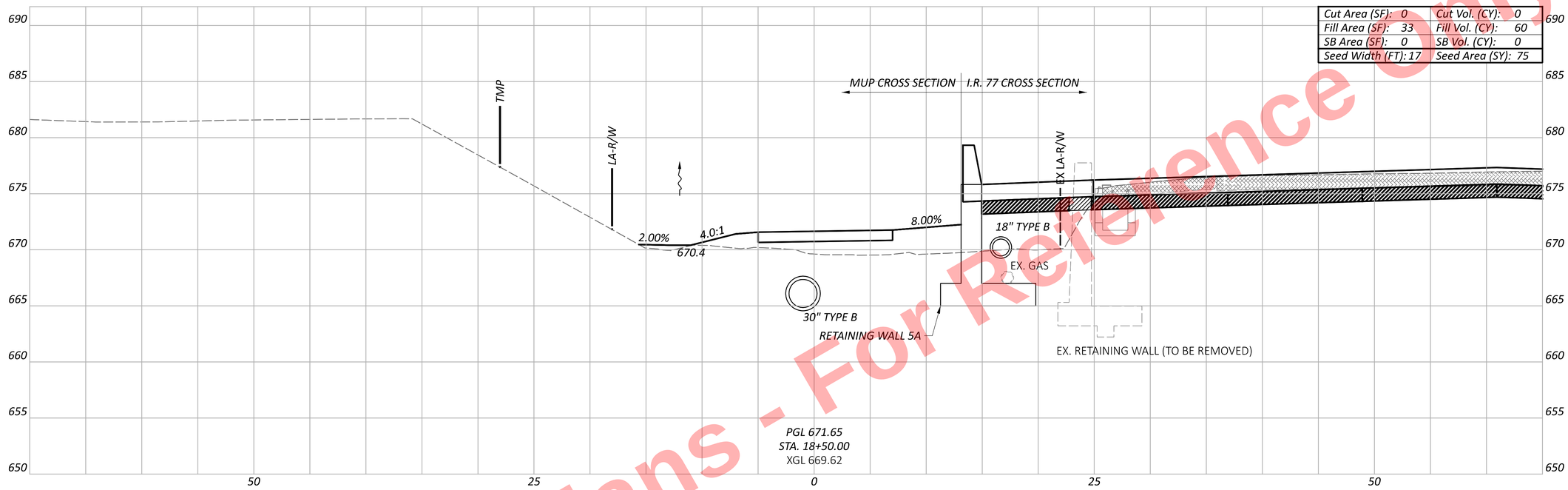
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
156	0	154	0

DESIGN AGENCY: HNTB
DESIGNER: KMM
REVIEWER: AS 11/05/25
PROJECT ID: 105743
SHEET: P.582 TOTAL: P.1269

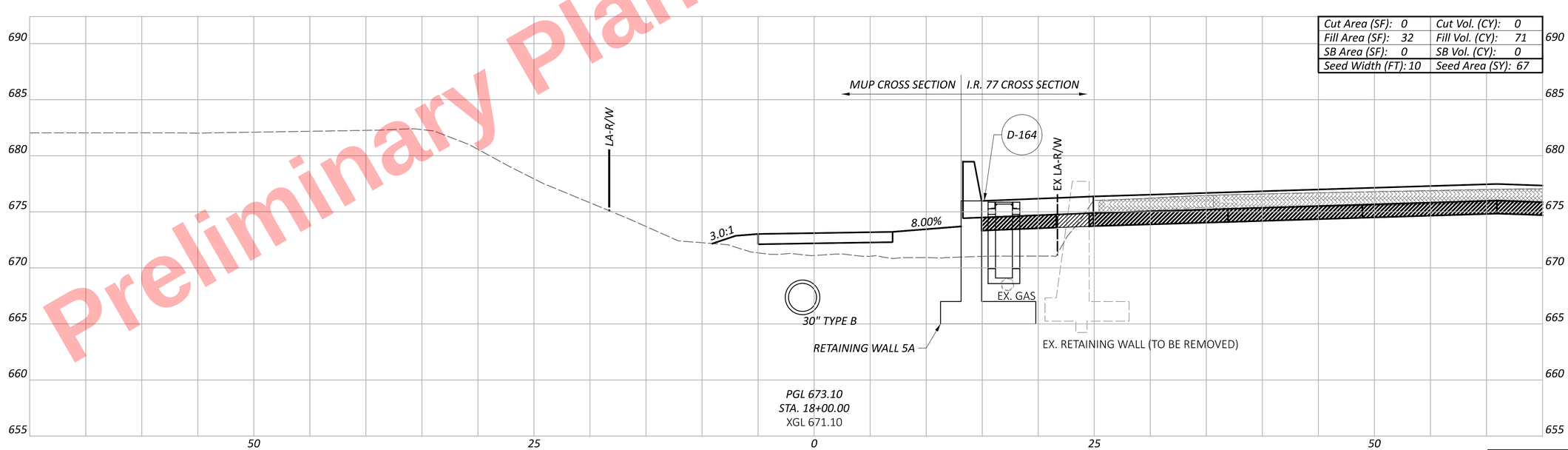
CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 17+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:03:28 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 33	Fill Vol. (CY): 60
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 17	Seed Area (SY): 75



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 32	Fill Vol. (CY): 71
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 10	Seed Area (SY): 67

Preliminary Plans - For Reference Only

CROSS SECTIONS - MUP WEST
STA. 18+00.00 TO STA. 18+50.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

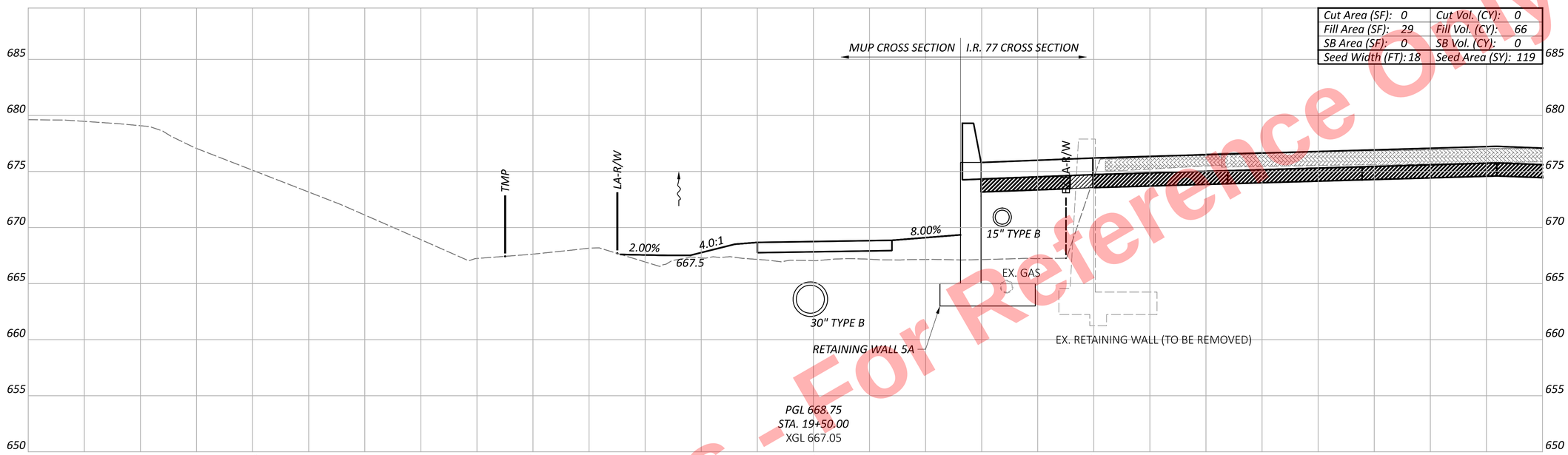
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
142	0	131	0

SHEET P.583 TOTAL P.1269

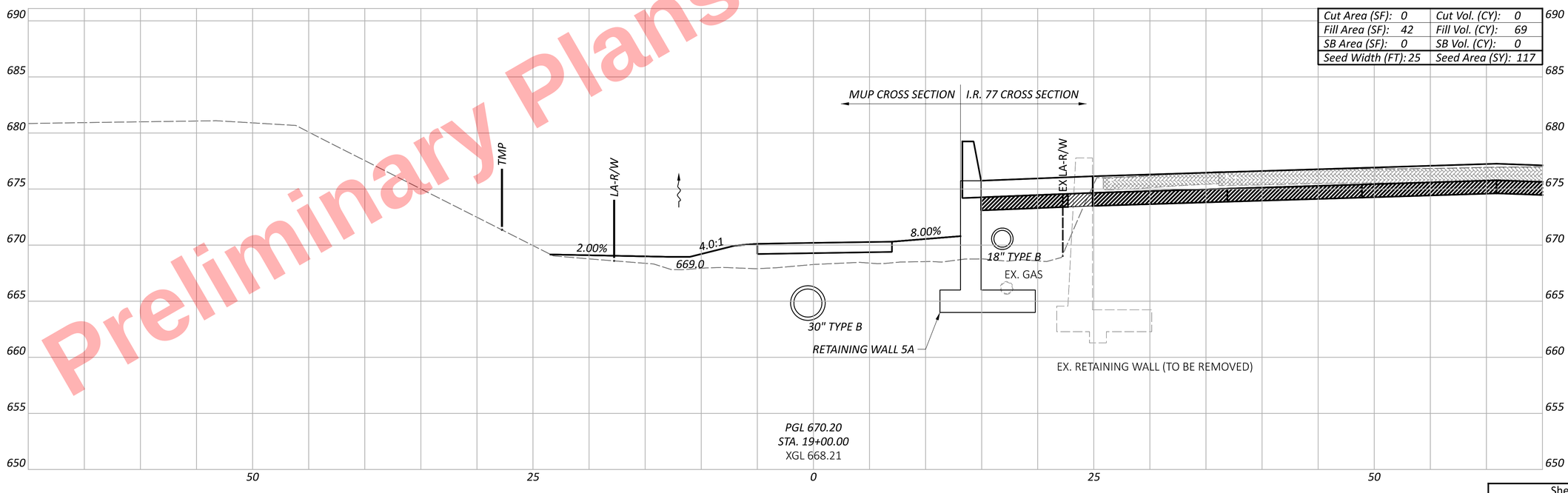
CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 18+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:03:32 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\W00-Engineering\Roadway\Sheets\105743_XS701.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 29	Fill Vol. (CY): 66
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 18	Seed Area (SY): 119



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 42	Fill Vol. (CY): 69
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 25	Seed Area (SY): 117

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 19+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:03:35 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

CROSS SECTIONS - MUP WEST
STA. 19+00.00 TO STA. 19+50.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

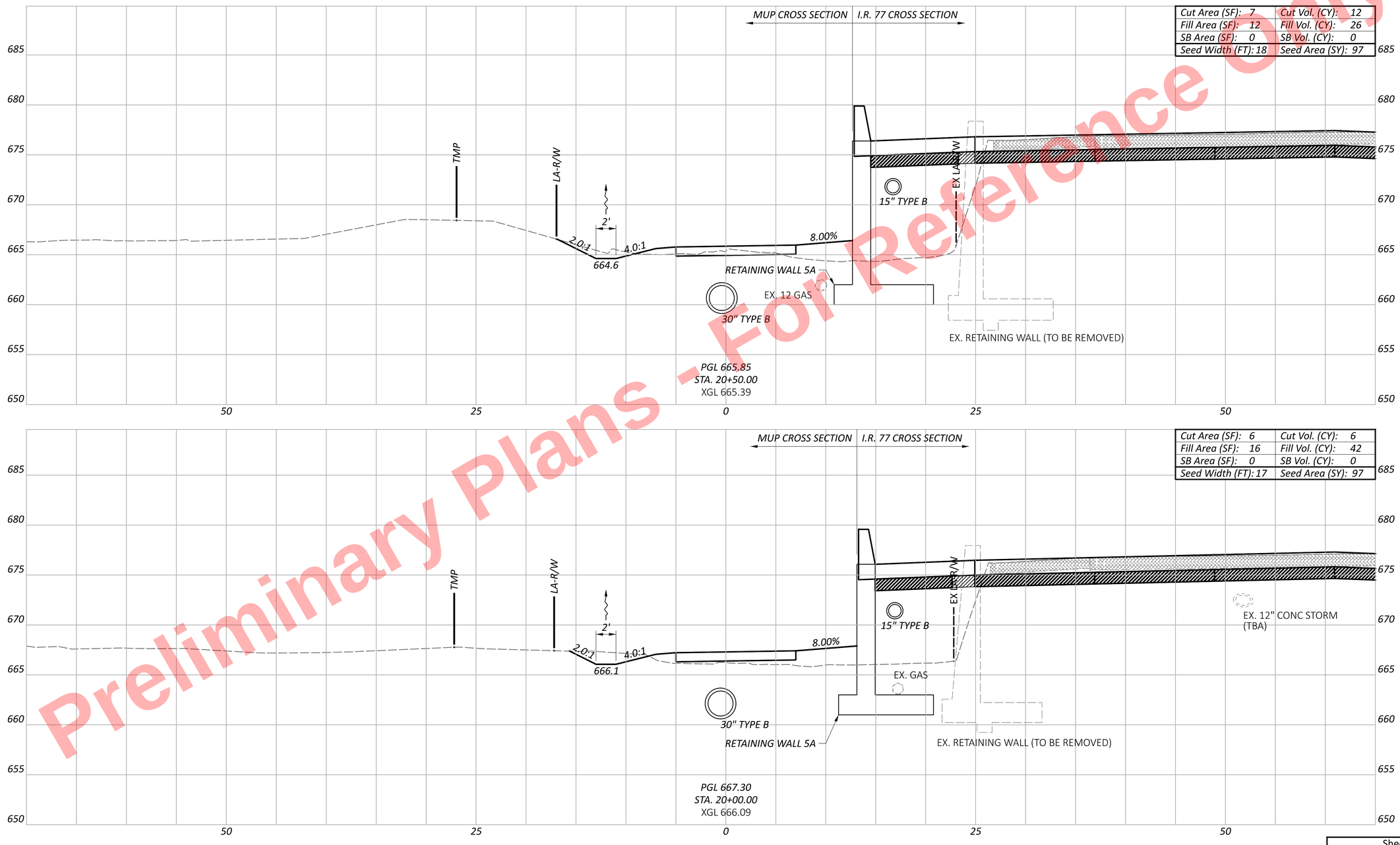
REVIEWER
AS 11/05/25

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
236	0	135	0

SHEET P.584 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 20+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:03:39 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

CROSS SECTIONS - MUP WEST
STA. 20+00.00 TO STA. 20+50.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

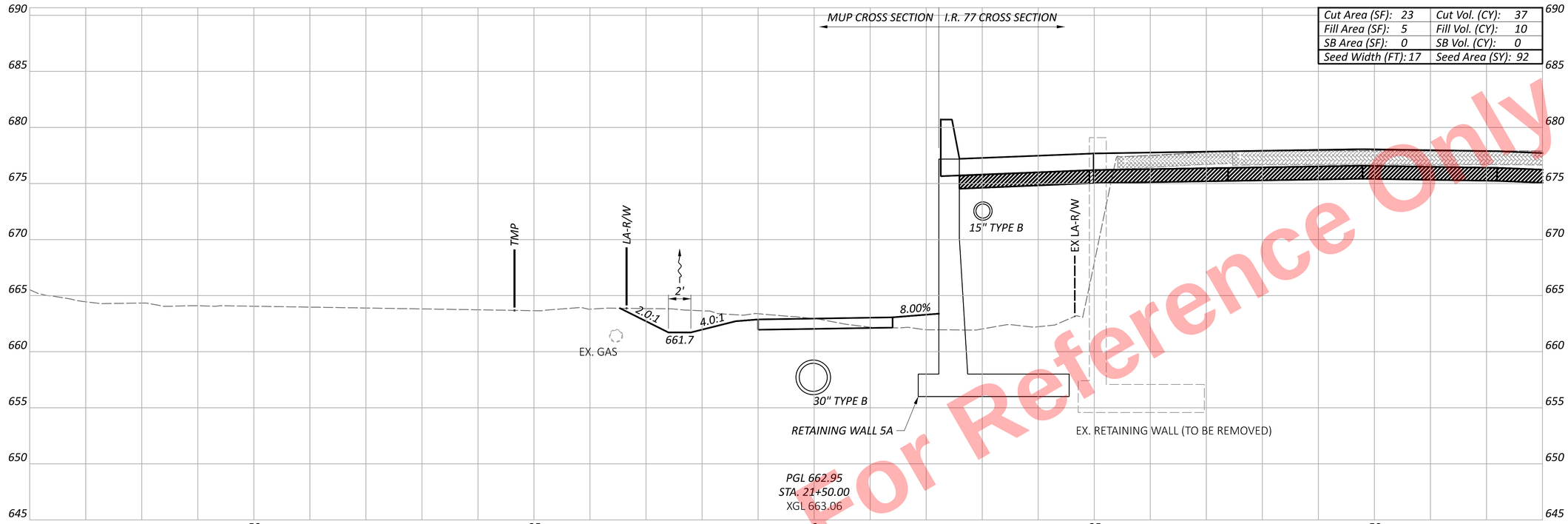
REVIEWER
AS 11/05/25

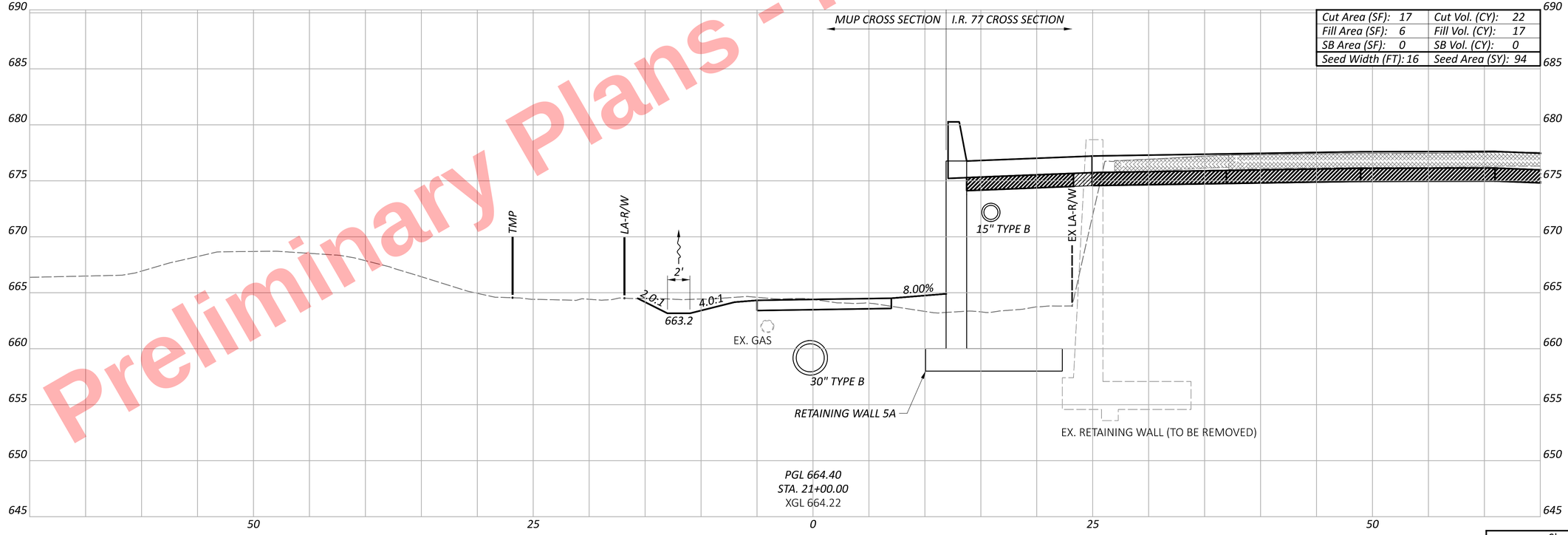
PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
194	18	68	0

SHEET P.585 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 21+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:03:43 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

CROSS SECTIONS - MUP WEST
STA. 21+00.00 TO STA. 21+50.00

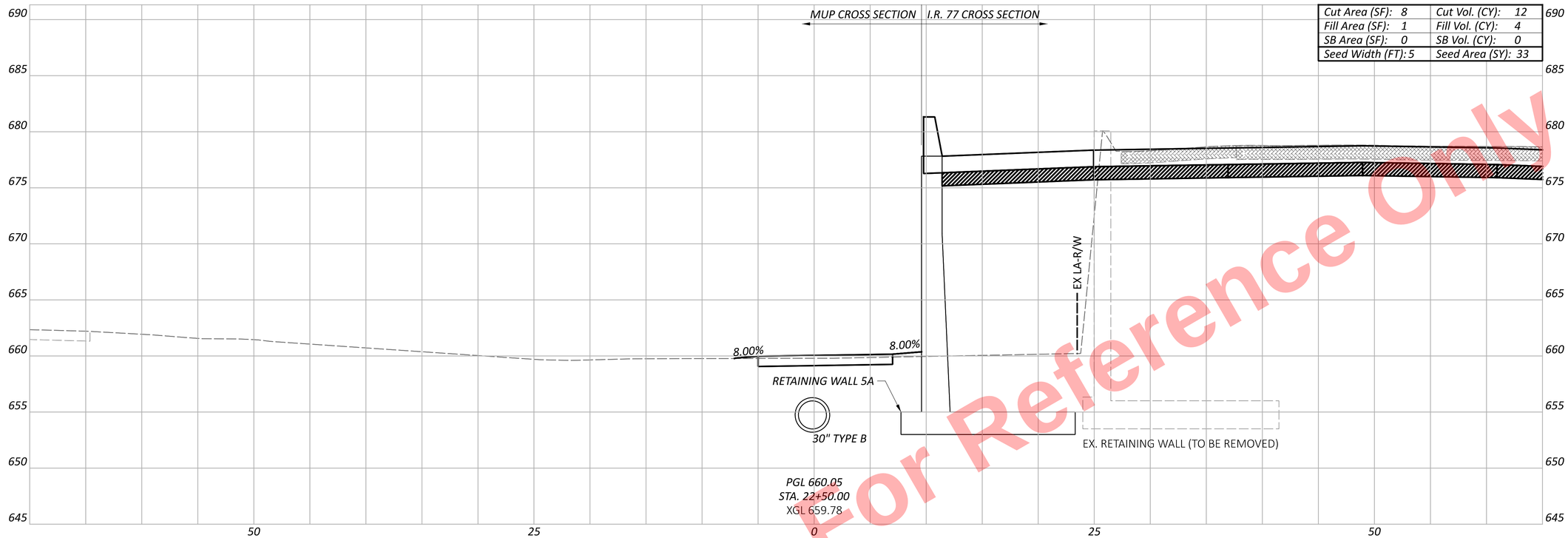
DESIGN AGENCY
HNTB

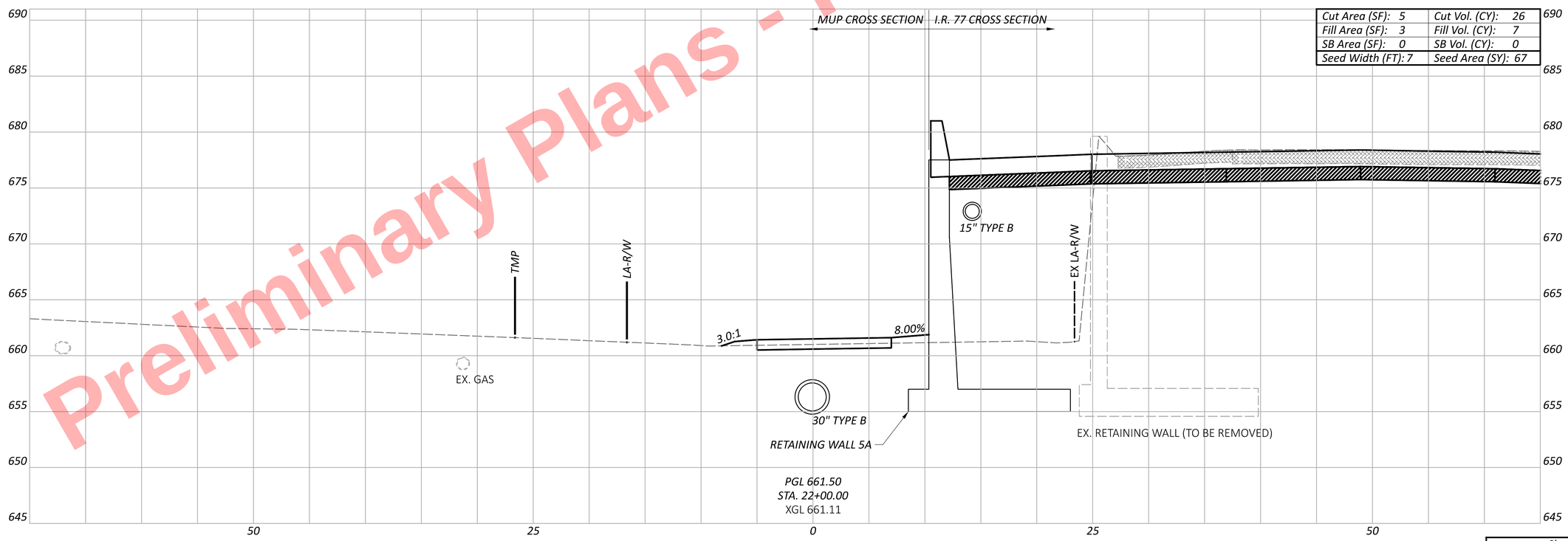
DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
186	59	27	0

SHEET P.586 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





Preliminary Plans - For Reference Only

CROSS SECTIONS - MUP WEST
STA. 22+00.00 TO STA. 22+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
100	38	11	0

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.587 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 22+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:03:46 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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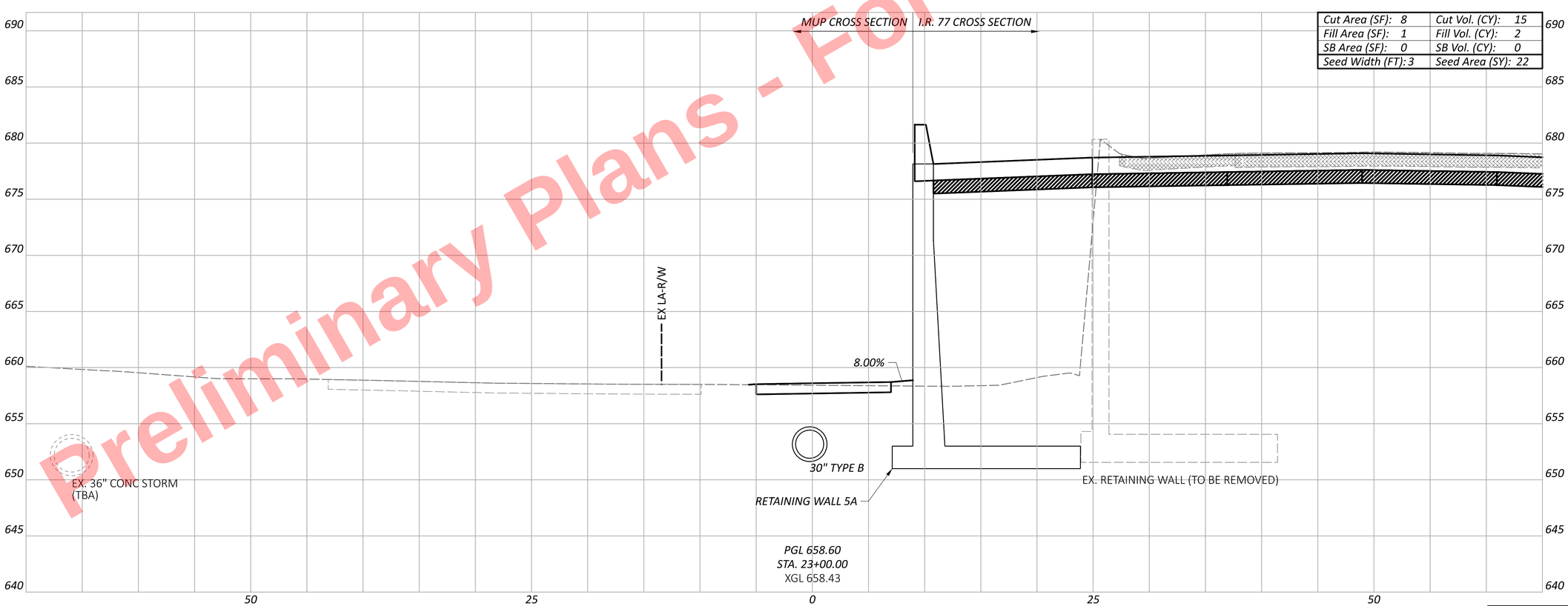
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF): 8	Cut Vol. (CY): 15
Fill Area (SF): 1	Fill Vol. (CY): 2
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 3	Seed Area (SY): 22

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
22	15	2	0

CUY-77-11.41 - PART 1

CROSS SECTIONS - MUP WEST
STA. 23+00.00

DESIGN AGENCY
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DESIGNER
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REVIEWER
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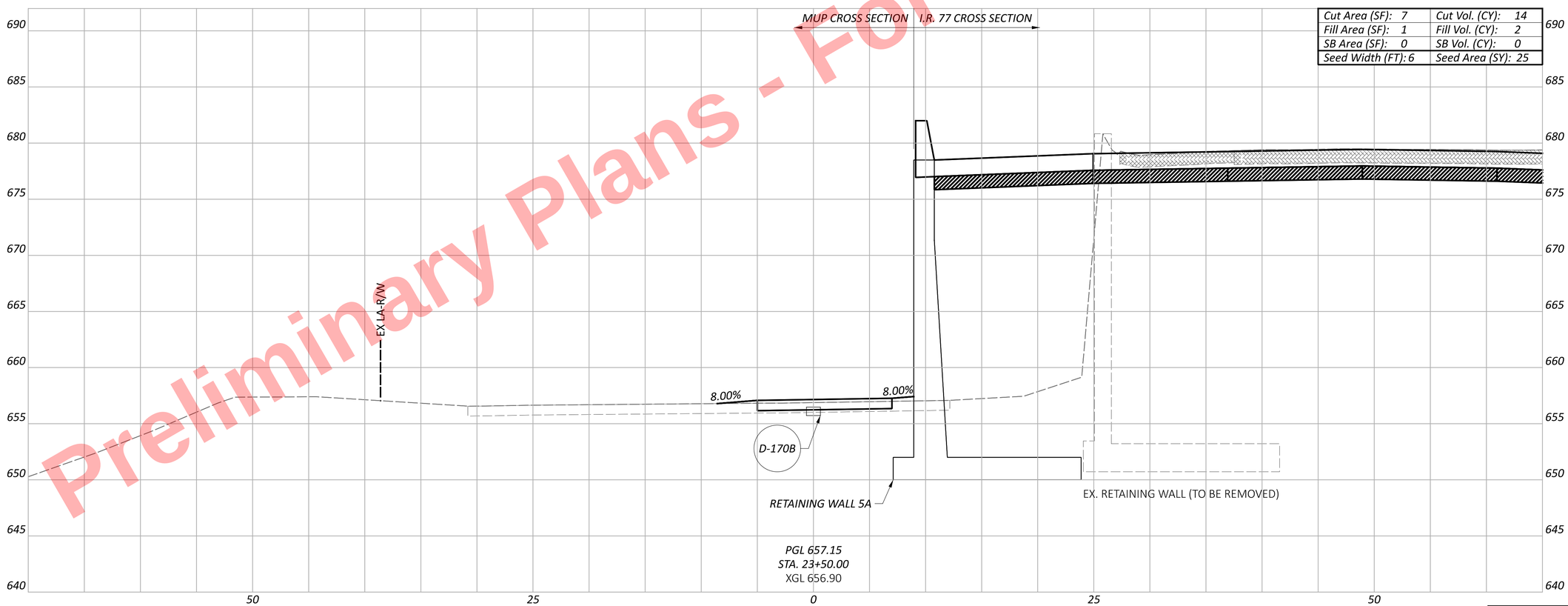
PROJECT ID
105743

SHEET P.588 | TOTAL P.1269

MODEL: CLP_MUP - 23+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:03:50 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF): 7	Cut Vol. (CY): 14
Fill Area (SF): 1	Fill Vol. (CY): 2
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 6	Seed Area (SY): 25

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
25	14	2	0

CUY-77-11.41 - PART 1

CROSS SECTIONS - MUP WEST
STA. 23+50.00

DESIGN AGENCY
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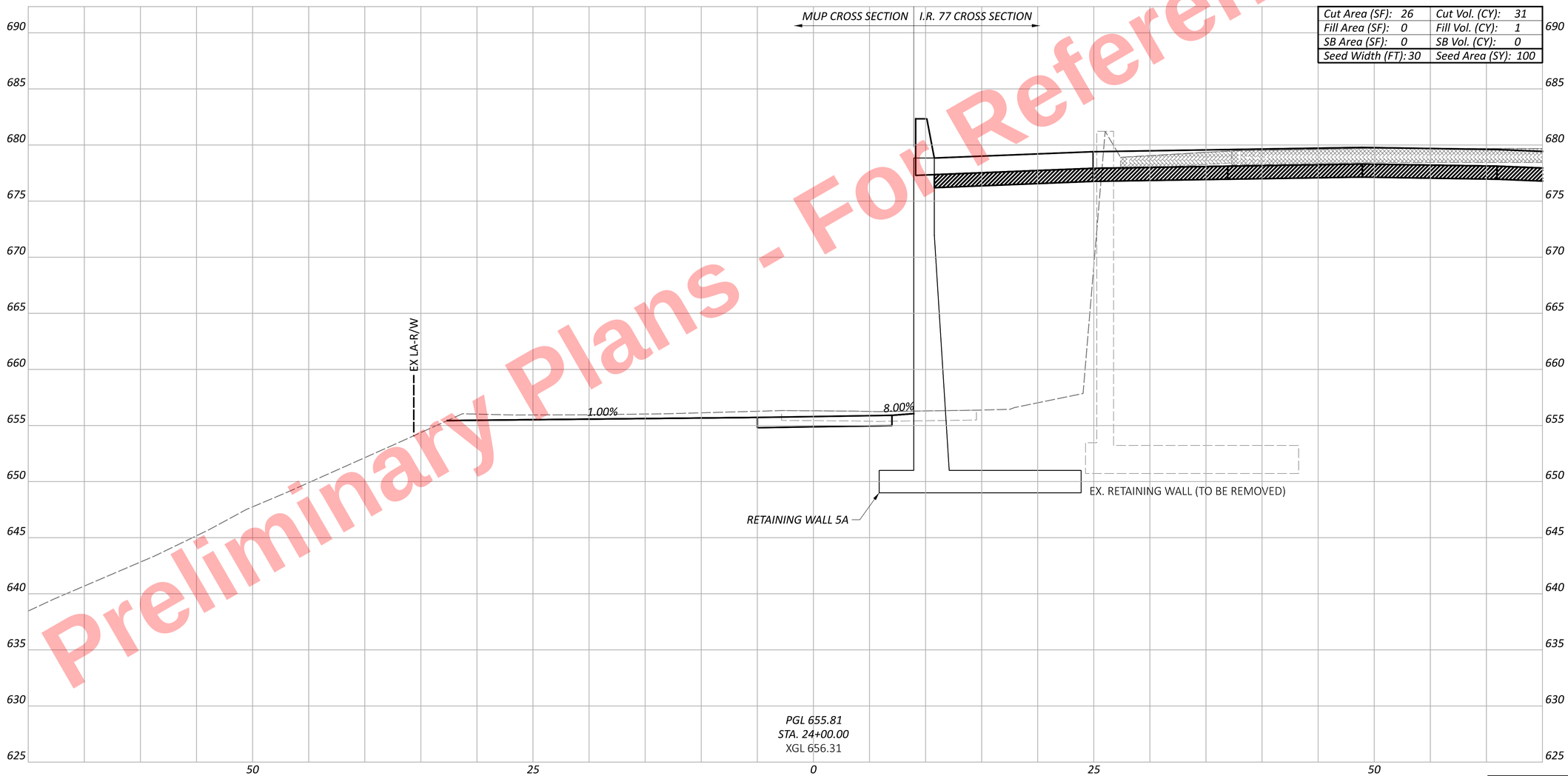
PROJECT ID
105743

SHEET P.589 | TOTAL P.1269

MODEL: CLP_MUP - 23+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:03:52 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	26	Cut Vol. (CY):	31
Fill Area (SF):	0	Fill Vol. (CY):	1
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	30	Seed Area (SY):	100

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 24+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:03:54 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

CROSS SECTIONS - MUP WEST
STA. 24+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
100	31	1	0

DESIGN AGENCY
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PROJECT ID
105743

SHEET P.590 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
169	44	0	0

CROSS SECTIONS - MUP WEST
STA. 24+50.00

DESIGN AGENCY
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PROJECT ID
105743

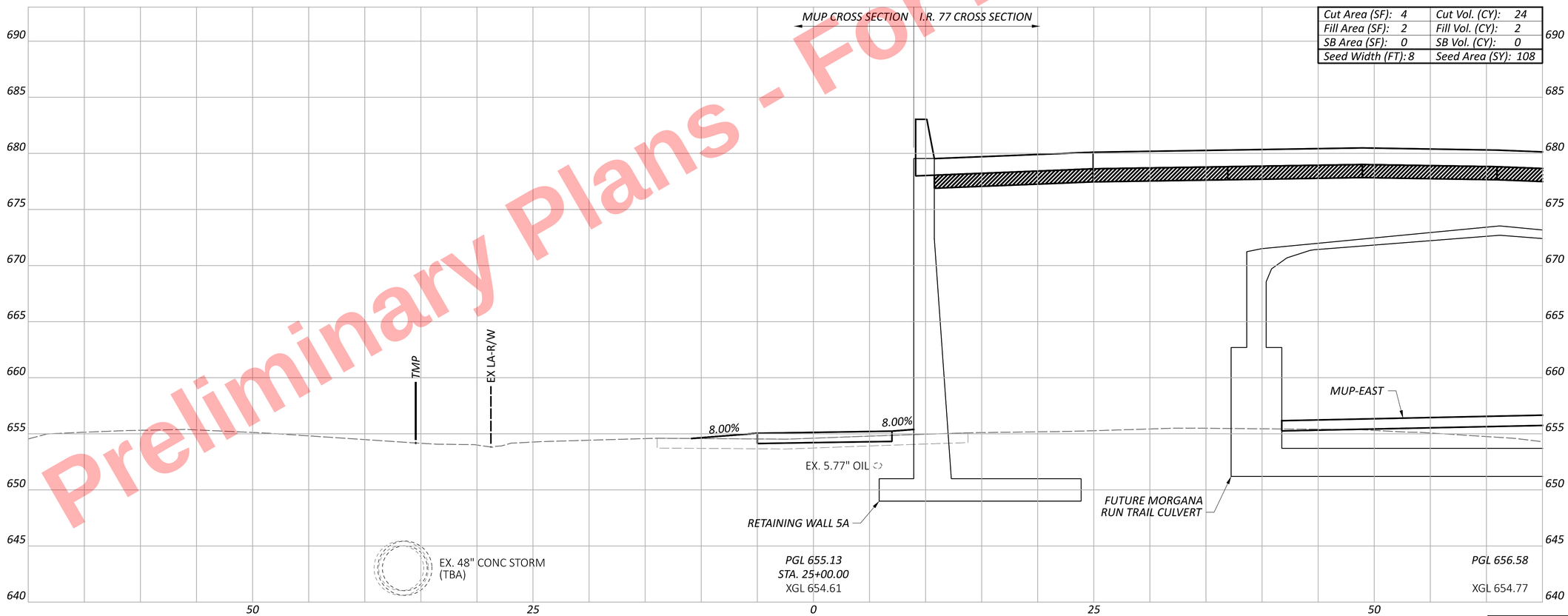
SHEET P.591 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 24+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:03:57 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF):	4	Cut Vol. (CY):	24
Fill Area (SF):	2	Fill Vol. (CY):	2
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	8	Seed Area (SY):	108

CROSS SECTIONS - MUP WEST
STA. 25+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
108	24	2	0

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SHEET P.592 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 25+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:03:59 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

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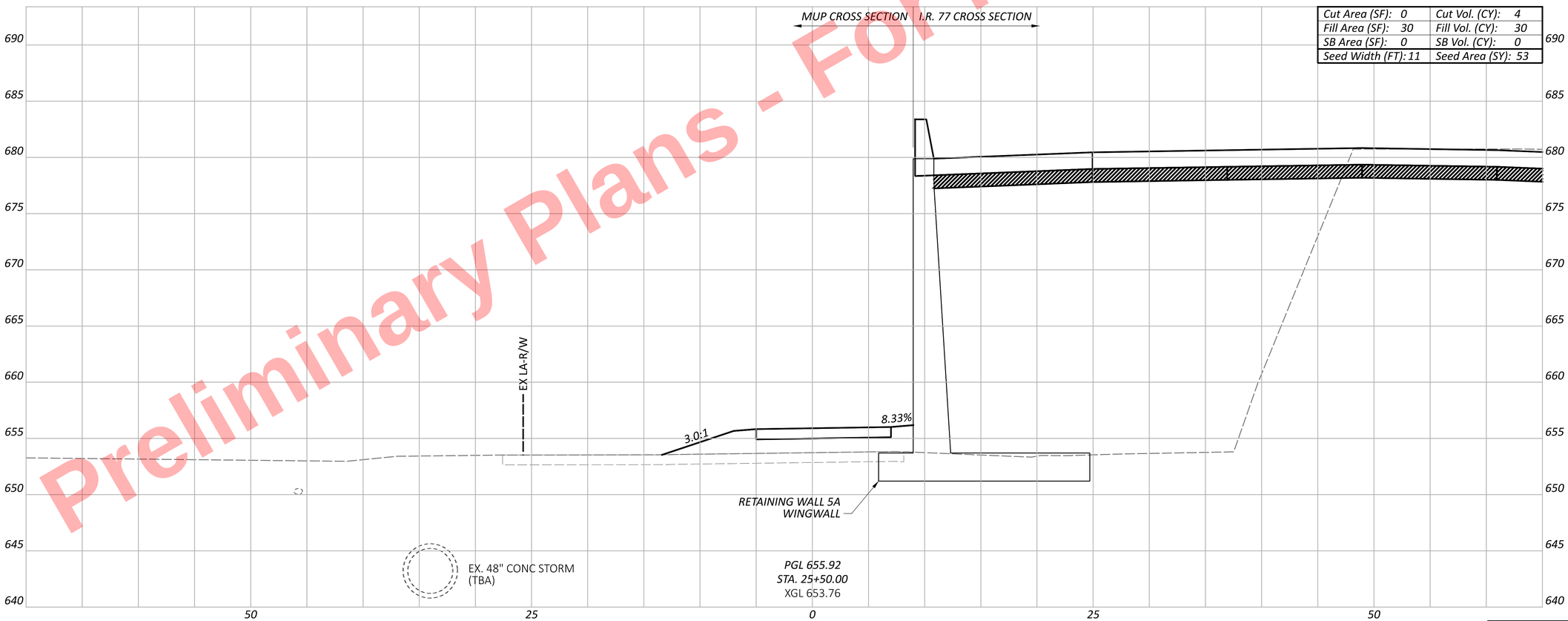
MUP CROSS SECTION | I.R. 77 CROSS SECTION

Cut Area (SF): 0	Cut Vol. (CY): 4
Fill Area (SF): 30	Fill Vol. (CY): 30
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 11	Seed Area (SY): 53



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
53	4	30	0

CROSS SECTIONS - MUP WEST
STA. 25+50.00

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SHEET P.593 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 25+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:00 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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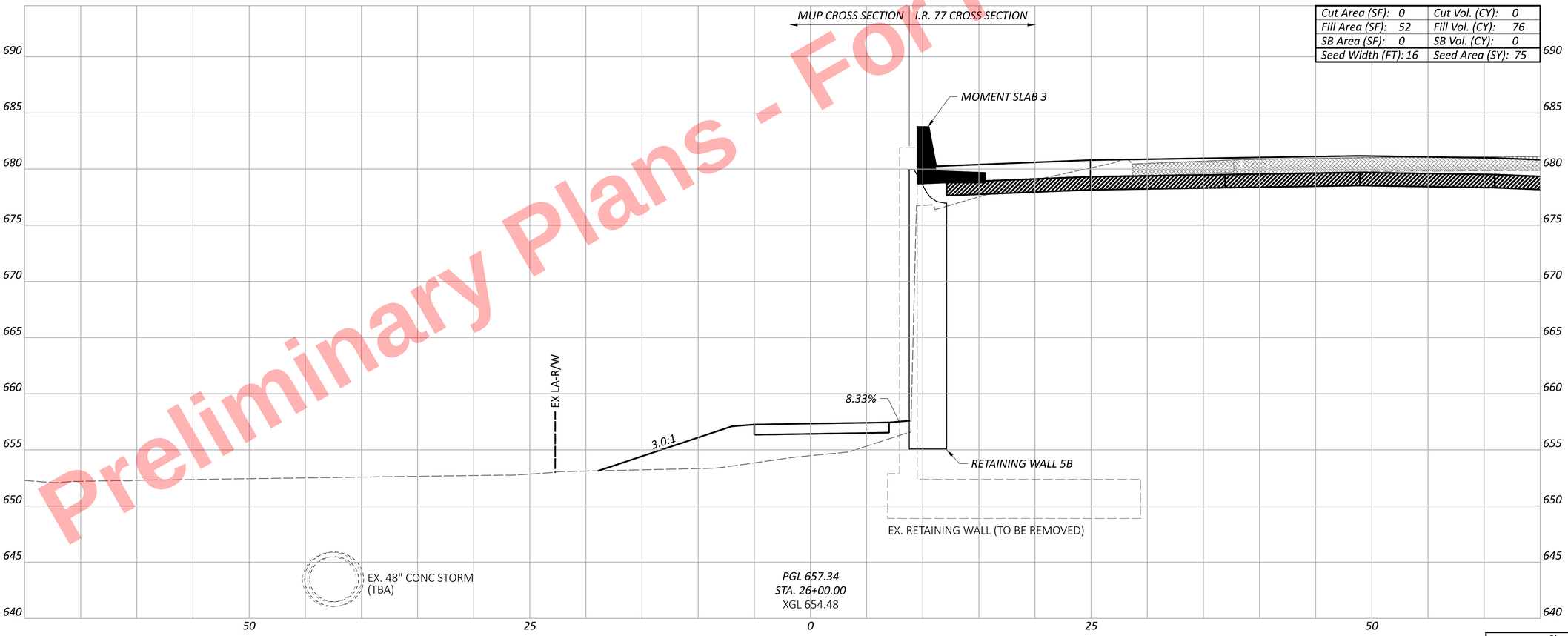
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 52	Fill Vol. (CY): 76
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 16	Seed Area (SY): 75

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
75	0	76	0

CROSS SECTIONS - MUP WEST
STA. 26+00.00

DESIGN AGENCY
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PROJECT ID
105743

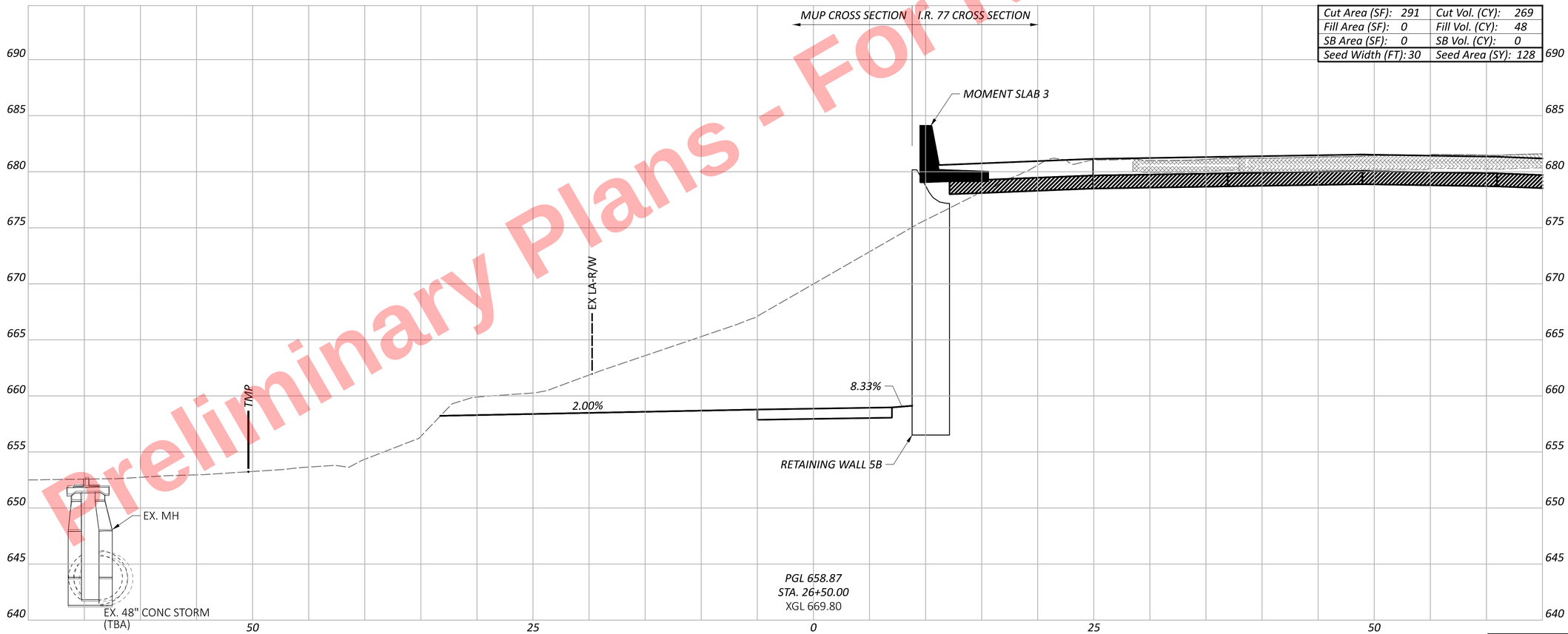
SHEET P.594 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 26+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:02 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF):	291	Cut Vol. (CY):	269
Fill Area (SF):	0	Fill Vol. (CY):	48
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	30	Seed Area (SY):	128

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
128	269	48	0

CROSS SECTIONS - MUP WEST
STA. 26+50.00

DESIGN AGENCY
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AS 11/05/25

PROJECT ID
105743

SHEET P.595 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 26+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:04 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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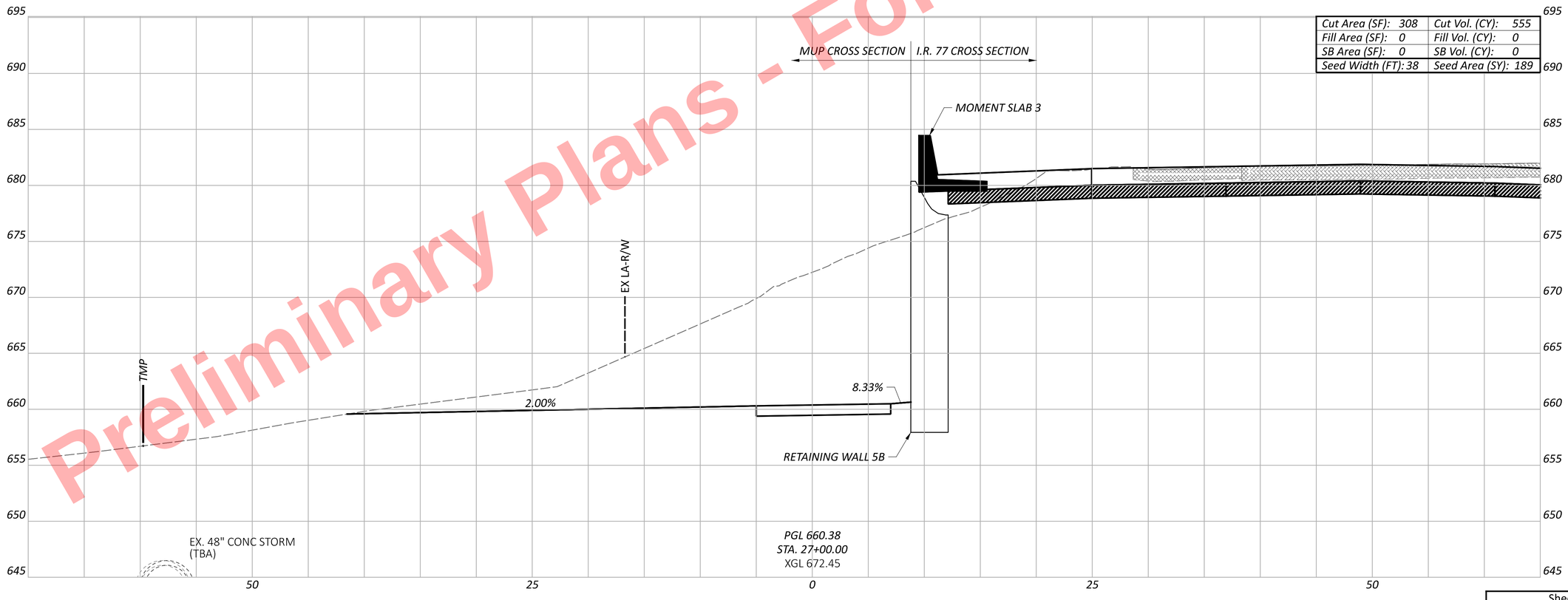
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF):	308	Cut Vol. (CY):	555
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	38	Seed Area (SY):	189

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
189	555	0	0

CROSS SECTIONS - MUP WEST
STA. 27+00.00

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.596 TOTAL P.1269

MODEL: CLP_MUP - 27+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:06 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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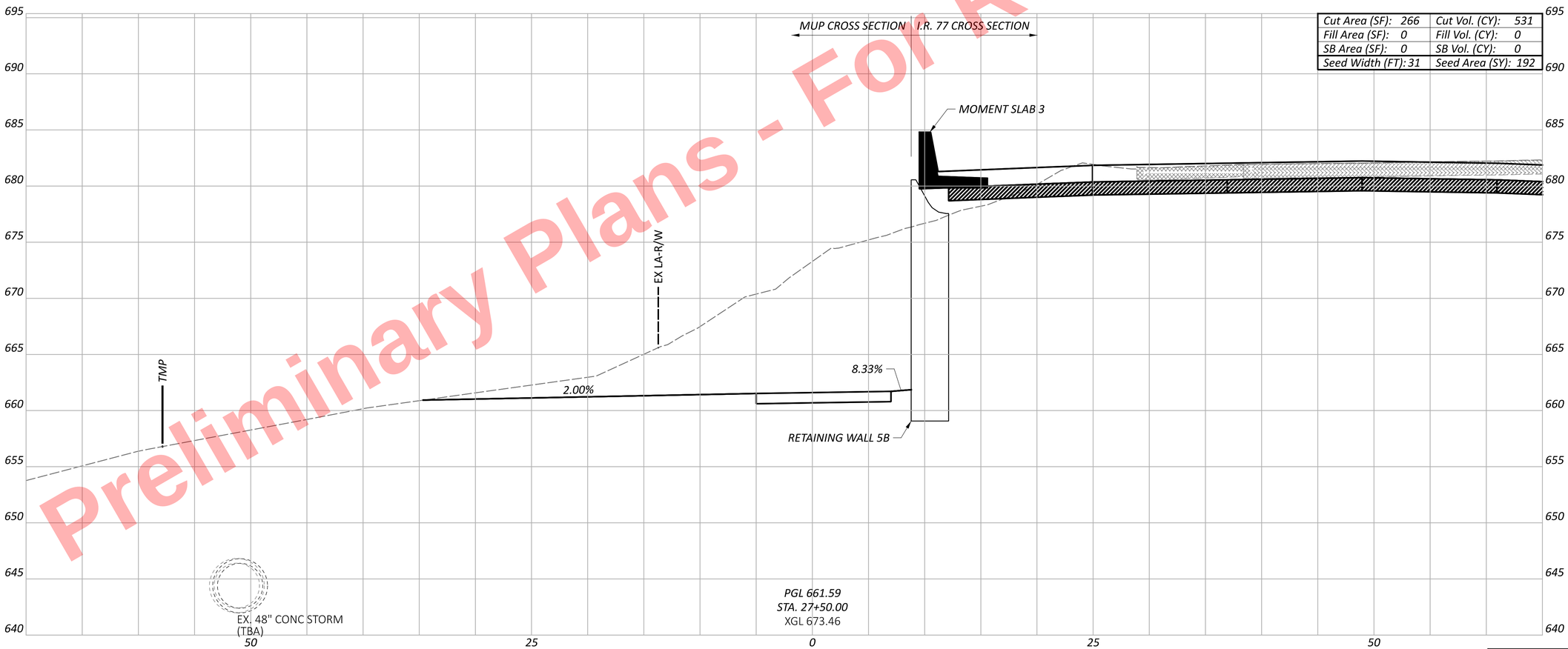
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF):	266	Cut Vol. (CY):	531
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	31	Seed Area (SY):	192

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
192	531	0	0

CROSS SECTIONS - MUP WEST
STA. 27+50.00

DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.597 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 27+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:07 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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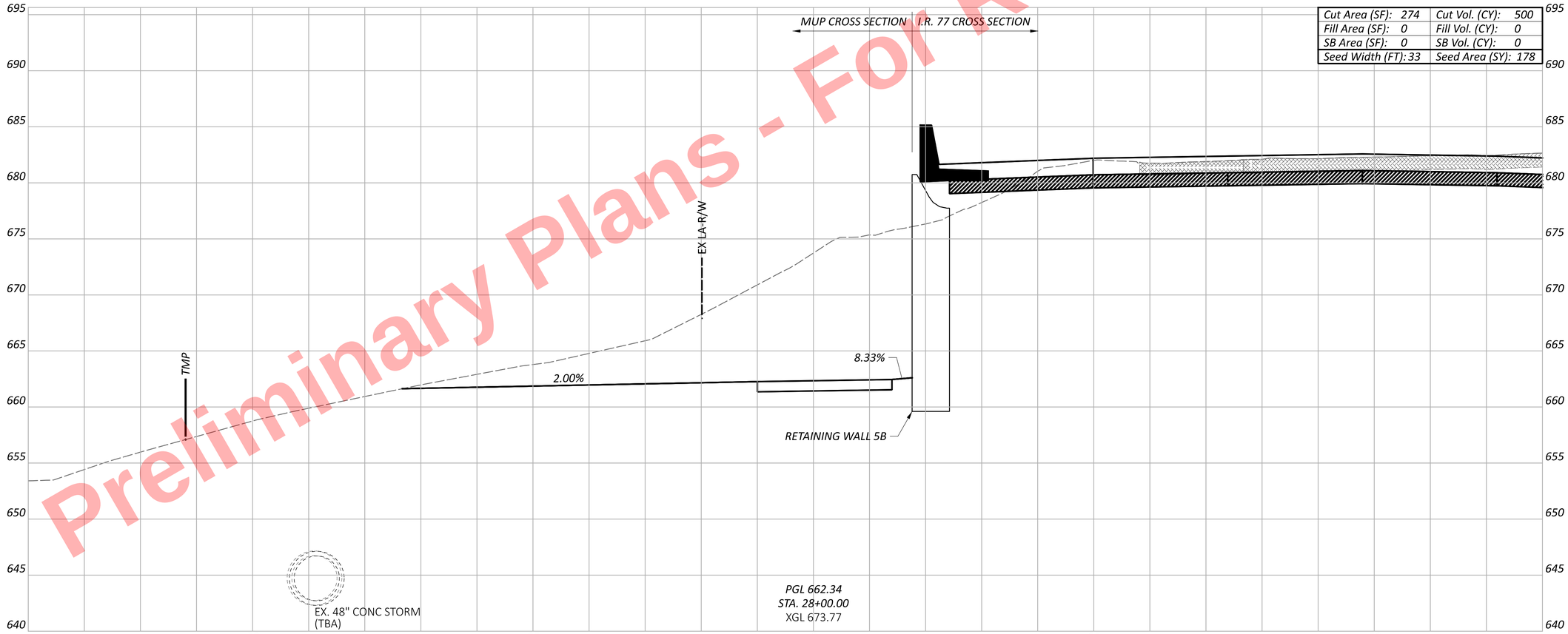
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF): 274	Cut Vol. (CY): 500
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 33	Seed Area (SY): 178

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
178	500	0	0

CROSS SECTIONS - MUP WEST
STA. 28+00.00

DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.598 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 28+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:09 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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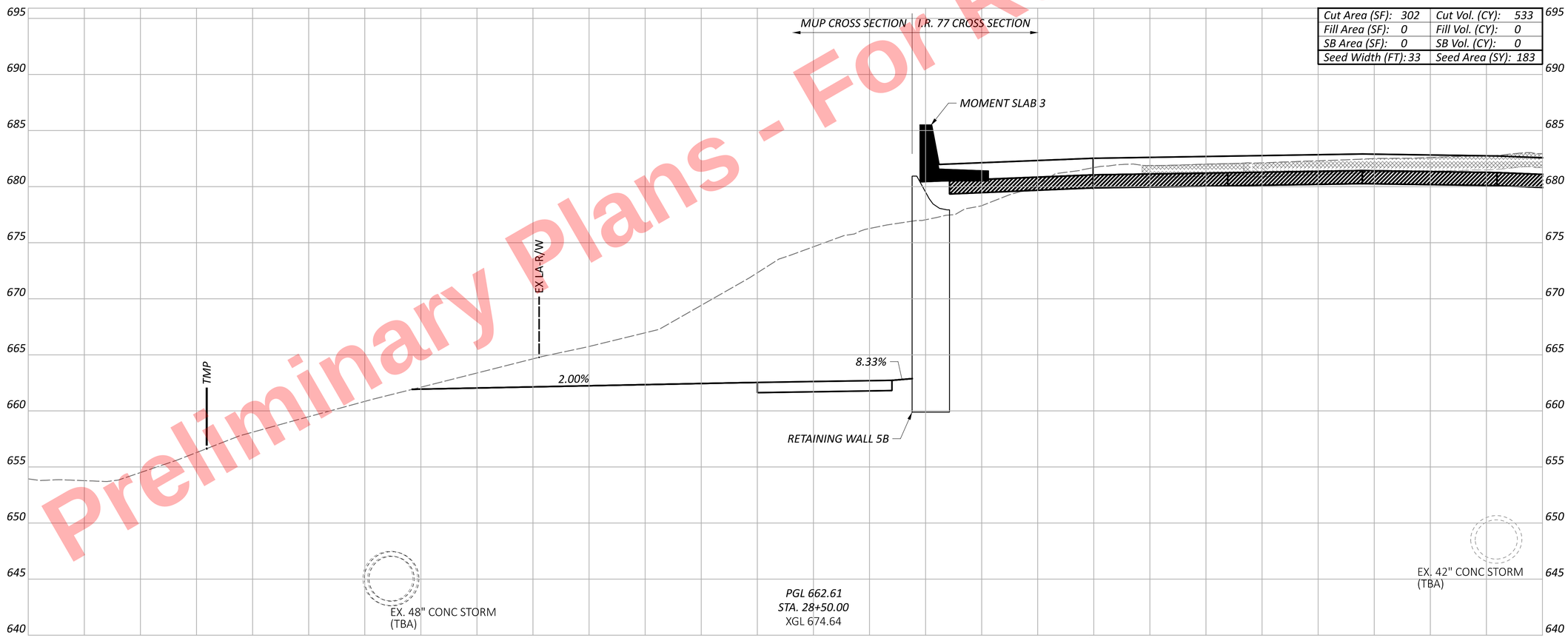
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF): 302	Cut Vol. (CY): 533
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 33	Seed Area (SY): 183

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
183	533	0	0

CROSS SECTIONS - MUP WEST
STA. 28+50.00

DESIGN AGENCY
HNTB

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AS 11/05/25

PROJECT ID
105743

SHEET P.599 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 28+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:11 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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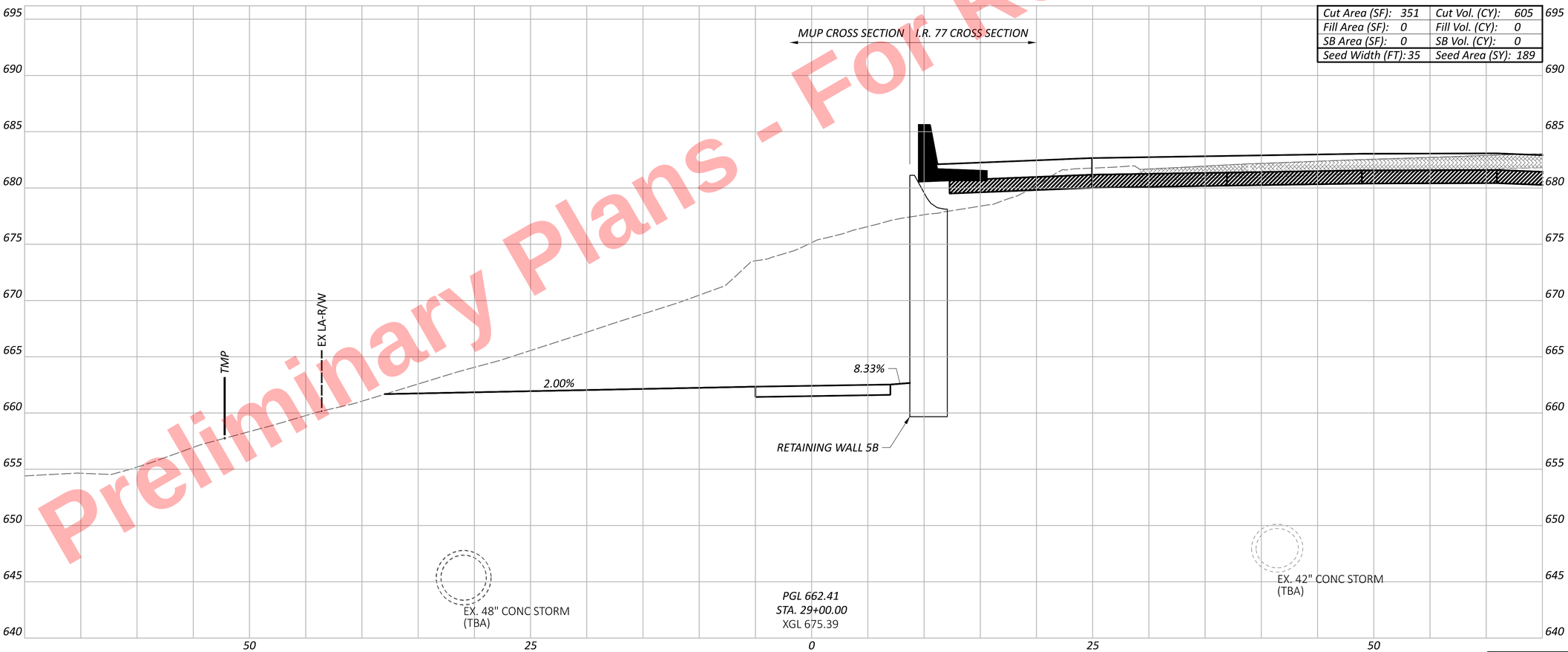
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF): 351	Cut Vol. (CY): 605
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 35	Seed Area (SY): 189

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
189	605	0	0

CROSS SECTIONS - MUP WEST
STA. 29+00.00

DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.600 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 29+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:12 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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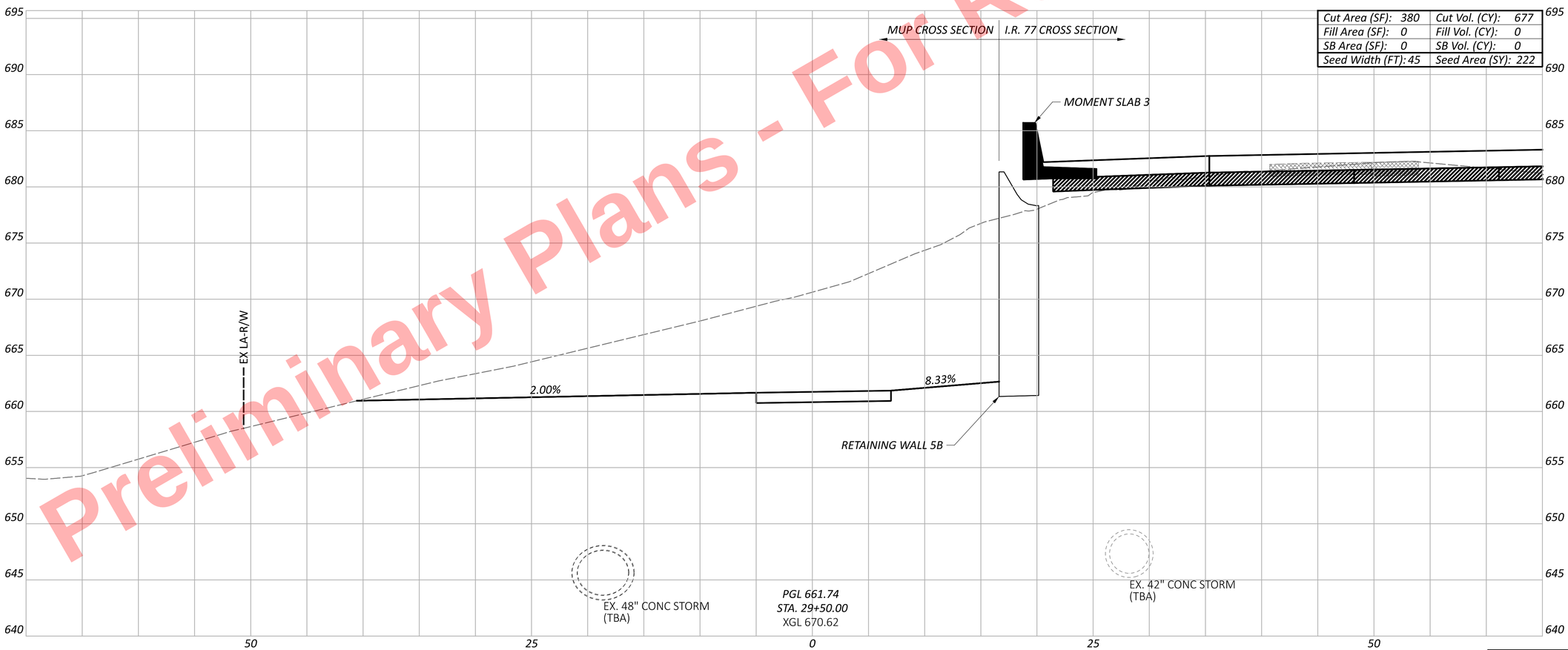
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF): 380	Cut Vol. (CY): 677
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 45	Seed Area (SY): 222

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
222	677	0	0

CROSS SECTIONS - MUP WEST
STA. 29+50.00

DESIGN AGENCY
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DESIGNER
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AS 11/05/25

PROJECT ID
105743

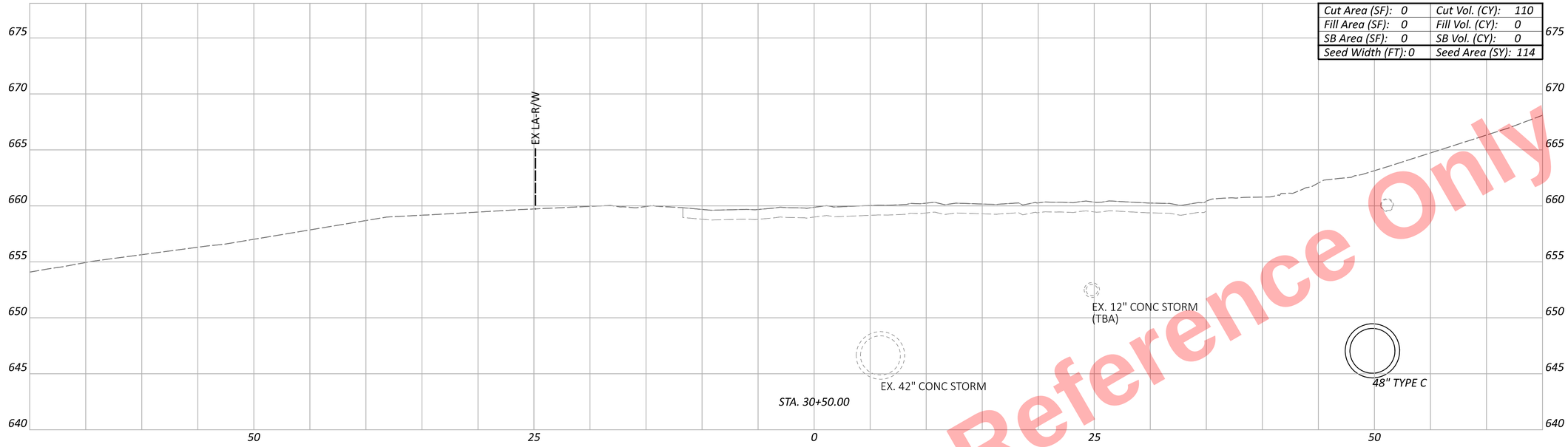
SHEET P.601 TOTAL P.1269

CUY-77-11.41 - PART 1

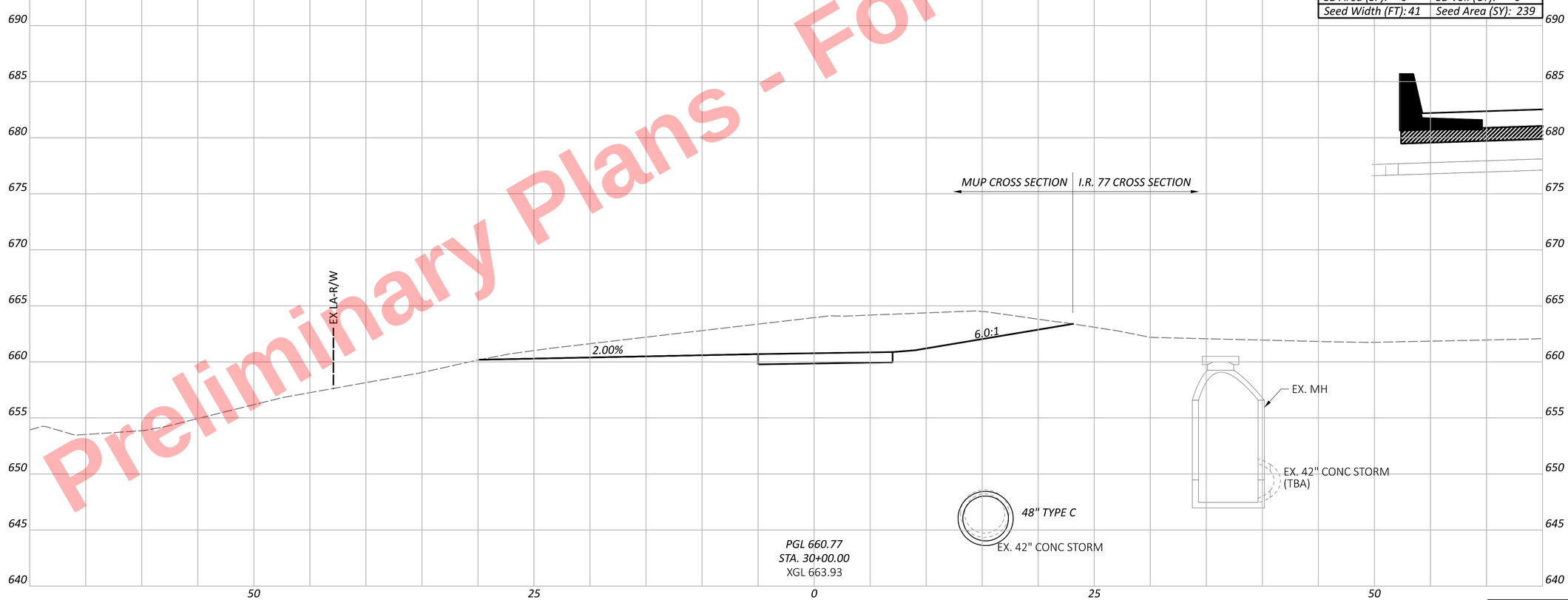
MODEL: CLP_MUP - 29+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:14 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Cut Area (SF): 0	Cut Vol. (CY): 110
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 0	Seed Area (SY): 114



Cut Area (SF): 119	Cut Vol. (CY): 462
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 41	Seed Area (SY): 239



Preliminary Plans - For Reference Only

CROSS SECTIONS - MUP WEST
STA. 30+00.00 TO STA. 30+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
353	572	0	0

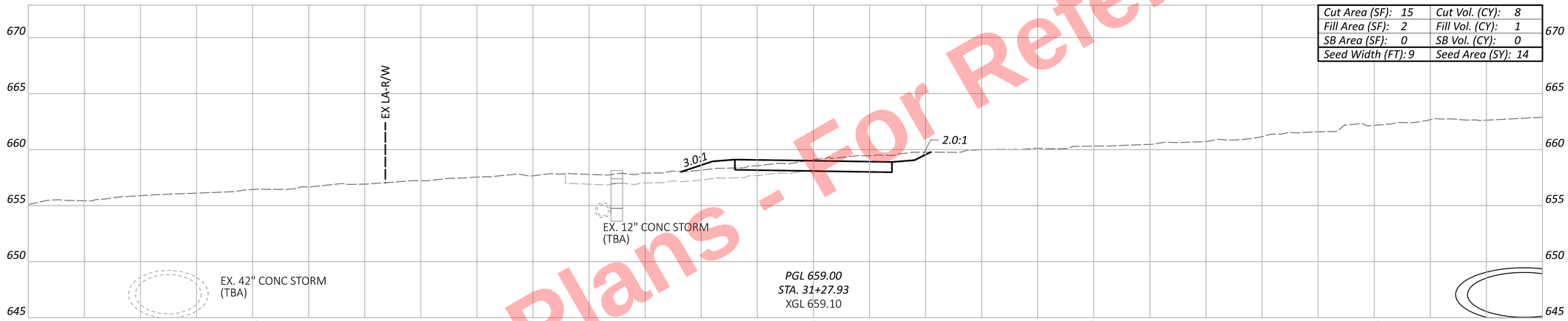
DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.602 TOTAL P.1269

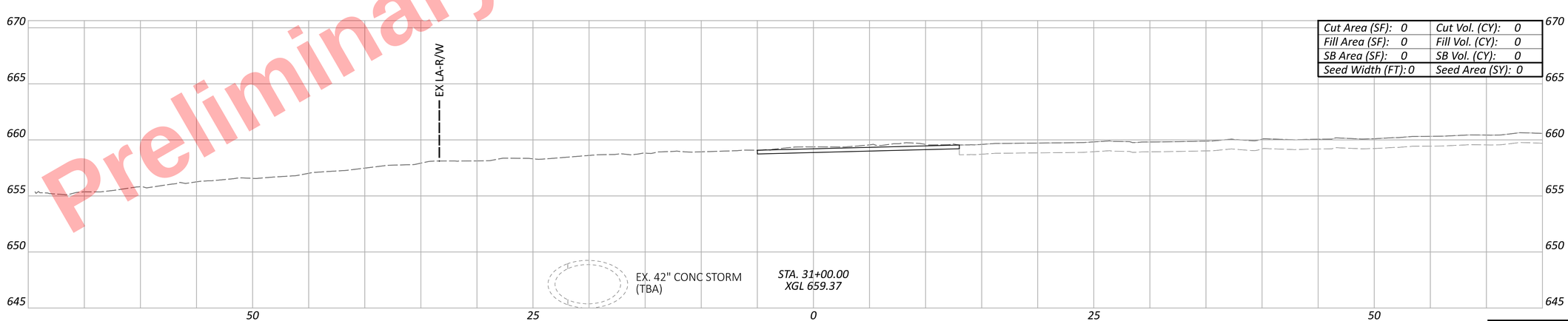
CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 30+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:16 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	15	Cut Vol. (CY):	8
Fill Area (SF):	2	Fill Vol. (CY):	1
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	9	Seed Area (SY):	14



Cut Area (SF):	0	Cut Vol. (CY):	0
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	0	Seed Area (SY):	0

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 31+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:19 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

CROSS SECTIONS - MUP WEST
STA. 31+00.00 TO STA. 31+50.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

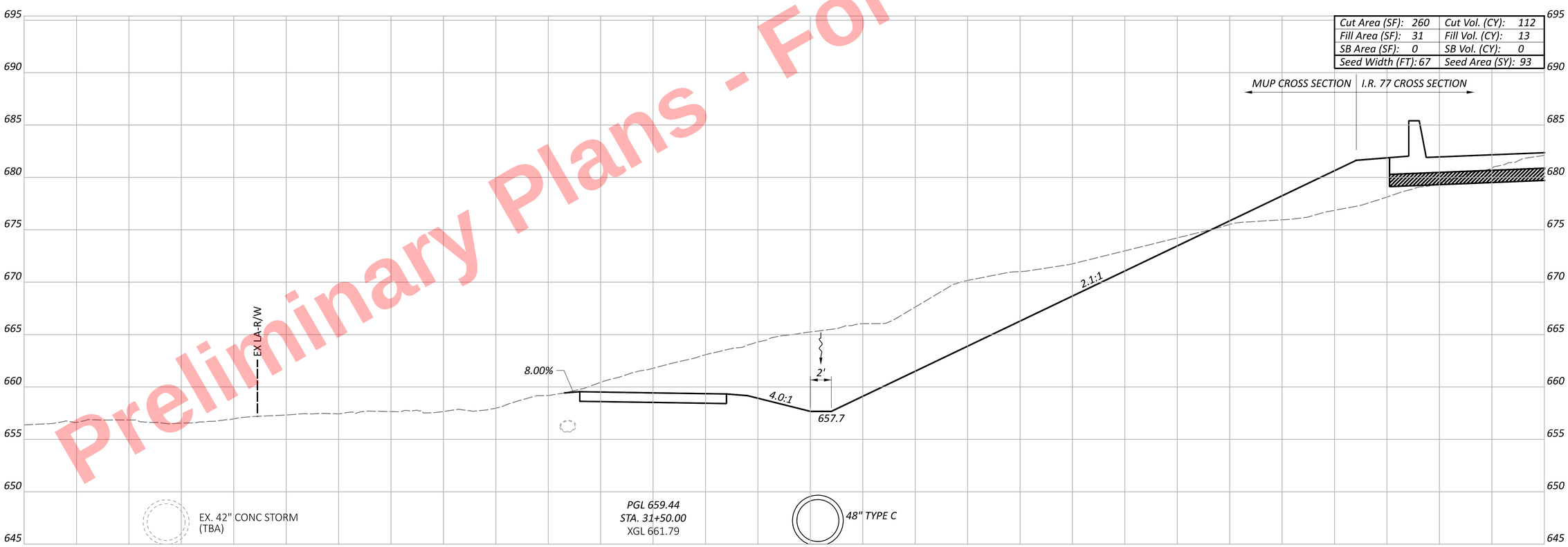
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
14	8	1	0

SHEET P.603 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only

Cut Area (SF): 260	Cut Vol. (CY): 112
Fill Area (SF): 31	Fill Vol. (CY): 13
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 67	Seed Area (SY): 93



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
93	112	13	0

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 32+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:21 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

CROSS SECTIONS - MUP WEST
STA. 32+00.00 TO STA. 32+50.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
AS 11/05/25

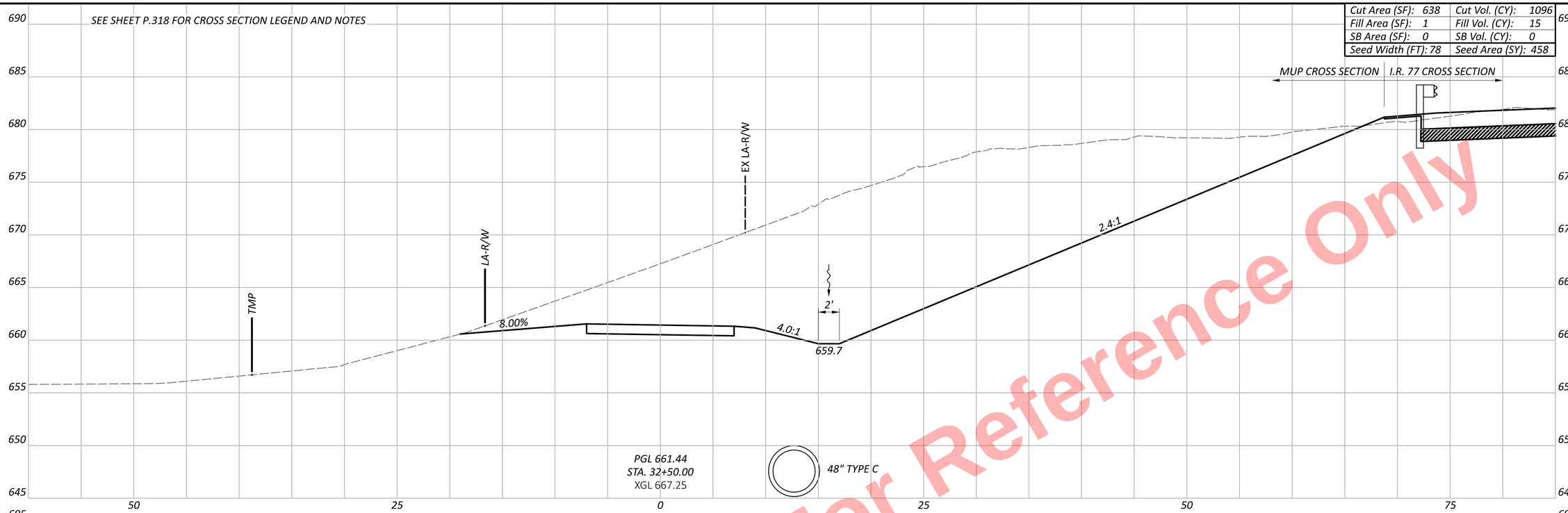
PROJECT ID
105743

SHEET	TOTAL
P.604	P.1269

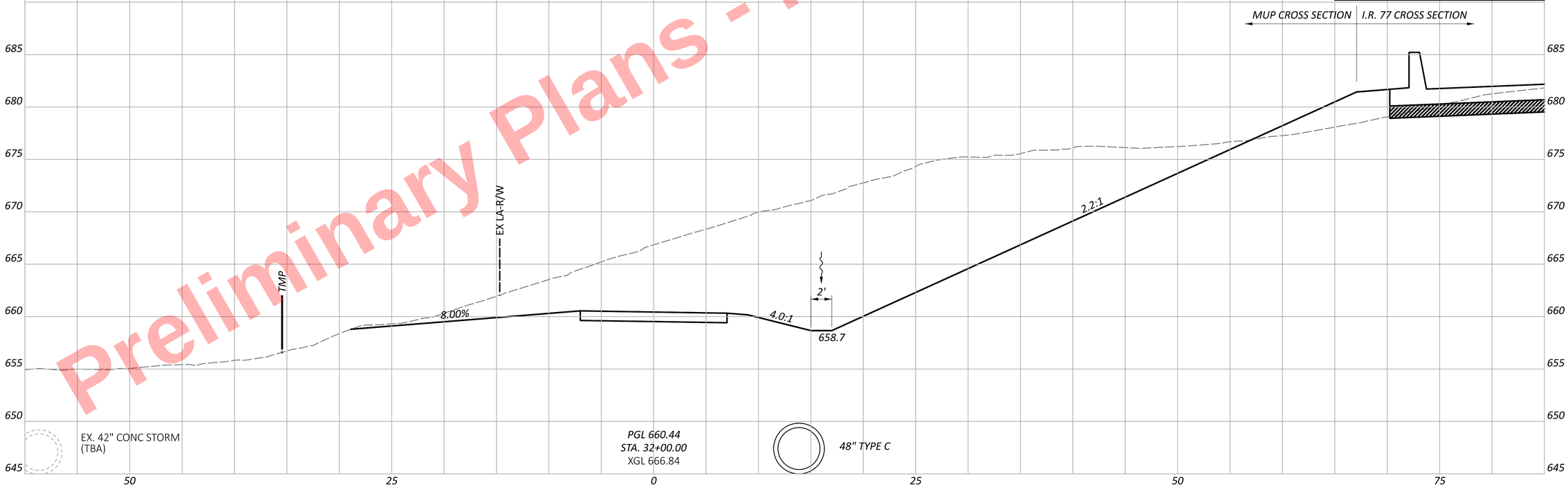
Preliminary Plans - For Reference Only

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Cut Area (SF):	638	Cut Vol. (CY):	1096
Fill Area (SF):	1	Fill Vol. (CY):	15
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	78	Seed Area (SY):	458



Cut Area (SF):	546	Cut Vol. (CY):	746
Fill Area (SF):	15	Fill Vol. (CY):	43
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	87	Seed Area (SY):	428



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
886	1842	58	0

CROSS SECTIONS - MUP WEST
STA. 33+00.00 TO STA. 33+50.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
AS 11/05/25

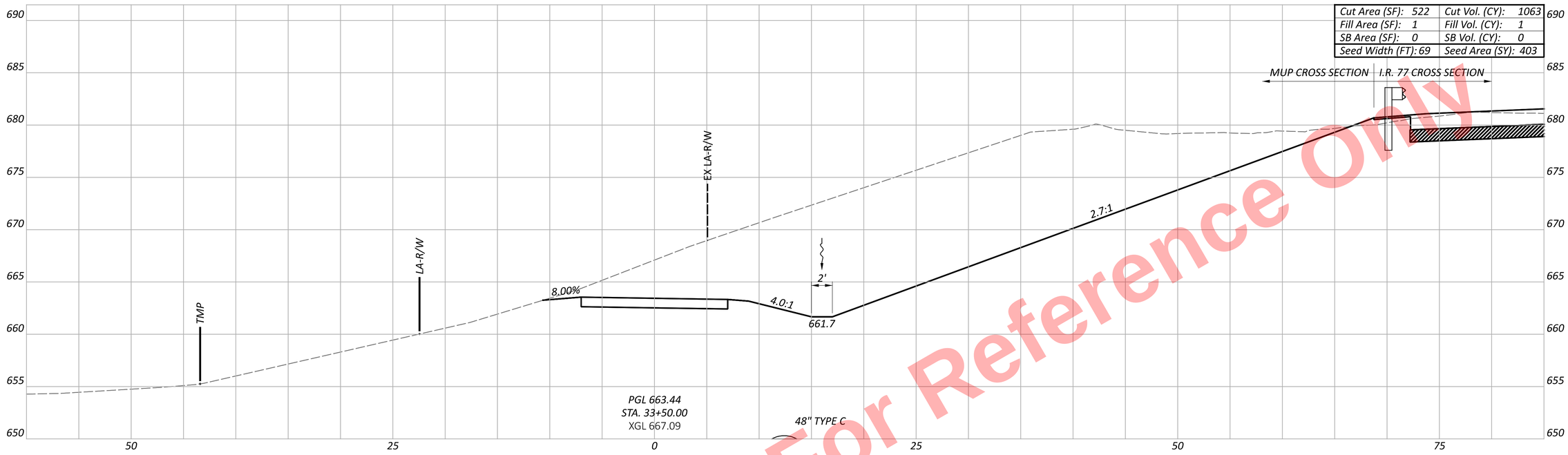
PROJECT ID
105743

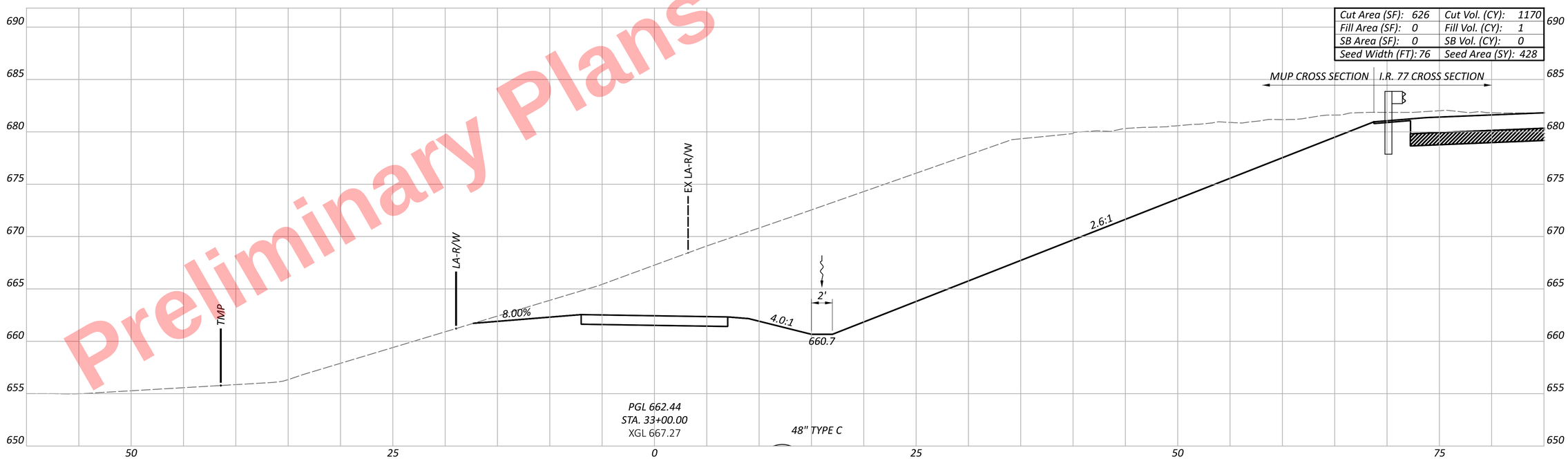
SHEET P.605 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 33+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:23 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 34+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:25 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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CROSS SECTIONS - MUP WEST
STA. 34+00.00 TO STA. 34+50.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

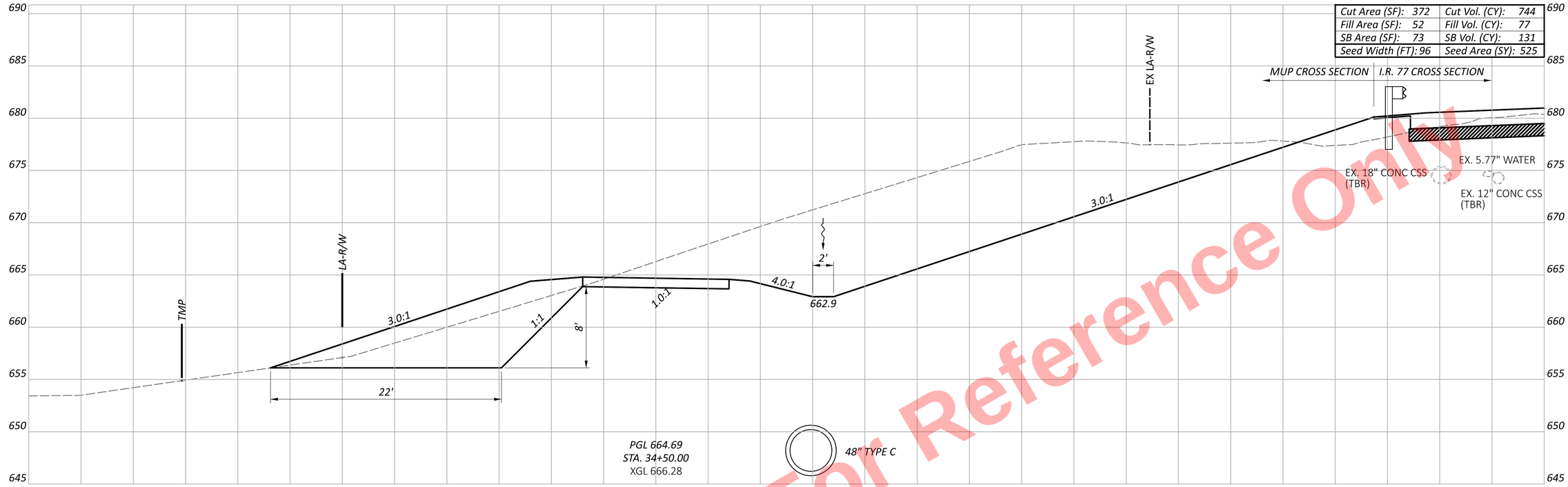
REVIEWER
AS 11/05/25

PROJECT ID
105743

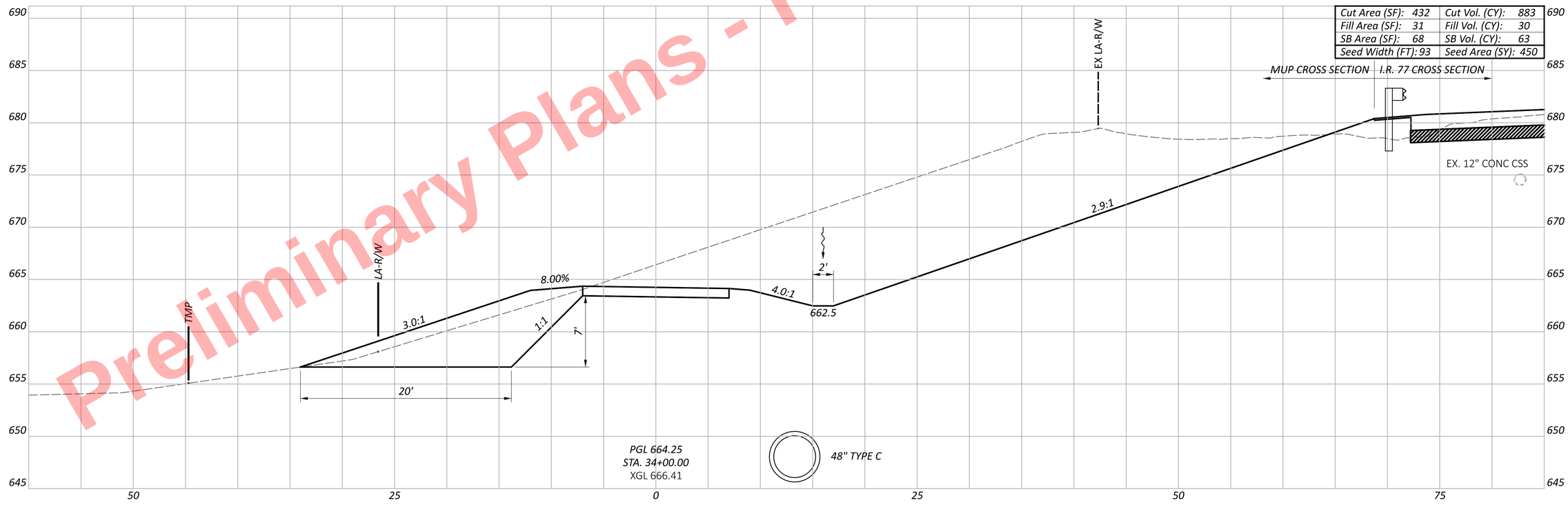
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
831	2233	2	0

SHEET P.606 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	372	Cut Vol. (CY):	744
Fill Area (SF):	52	Fill Vol. (CY):	77
SB Area (SF):	73	SB Vol. (CY):	131
Seed Width (FT):	96	Seed Area (SY):	525



Cut Area (SF):	432	Cut Vol. (CY):	883
Fill Area (SF):	31	Fill Vol. (CY):	30
SB Area (SF):	68	SB Vol. (CY):	63
Seed Width (FT):	93	Seed Area (SY):	450

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

CROSS SECTIONS - MUP WEST
STA. 35+00.00 TO STA. 35+50.00

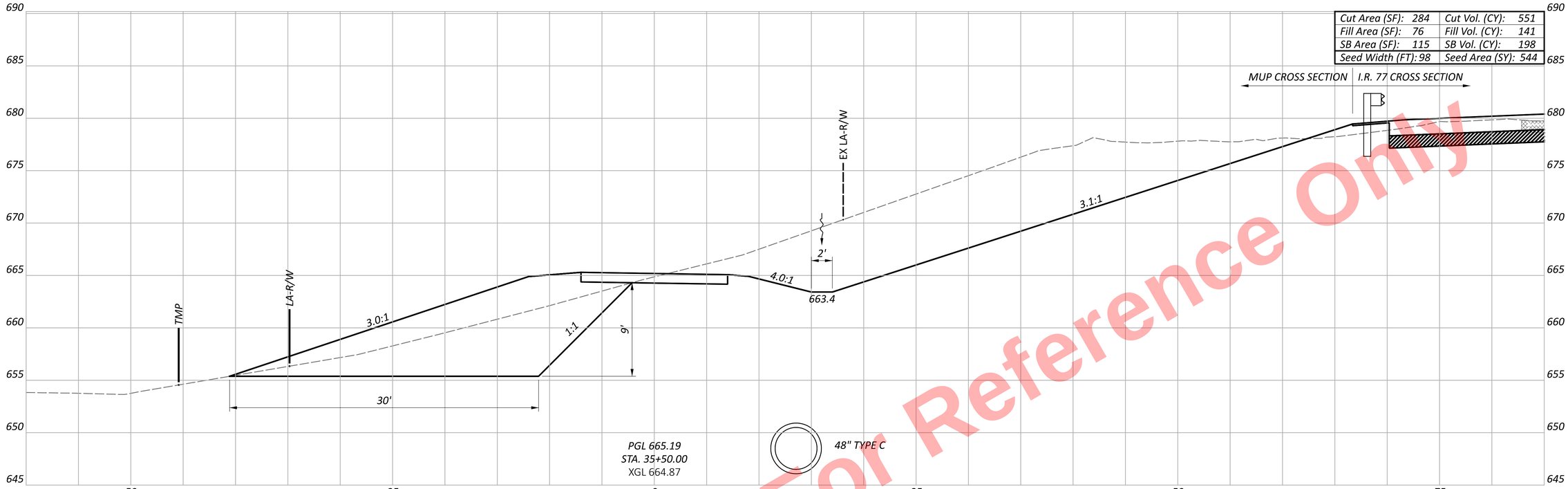
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
975	1627	107	194

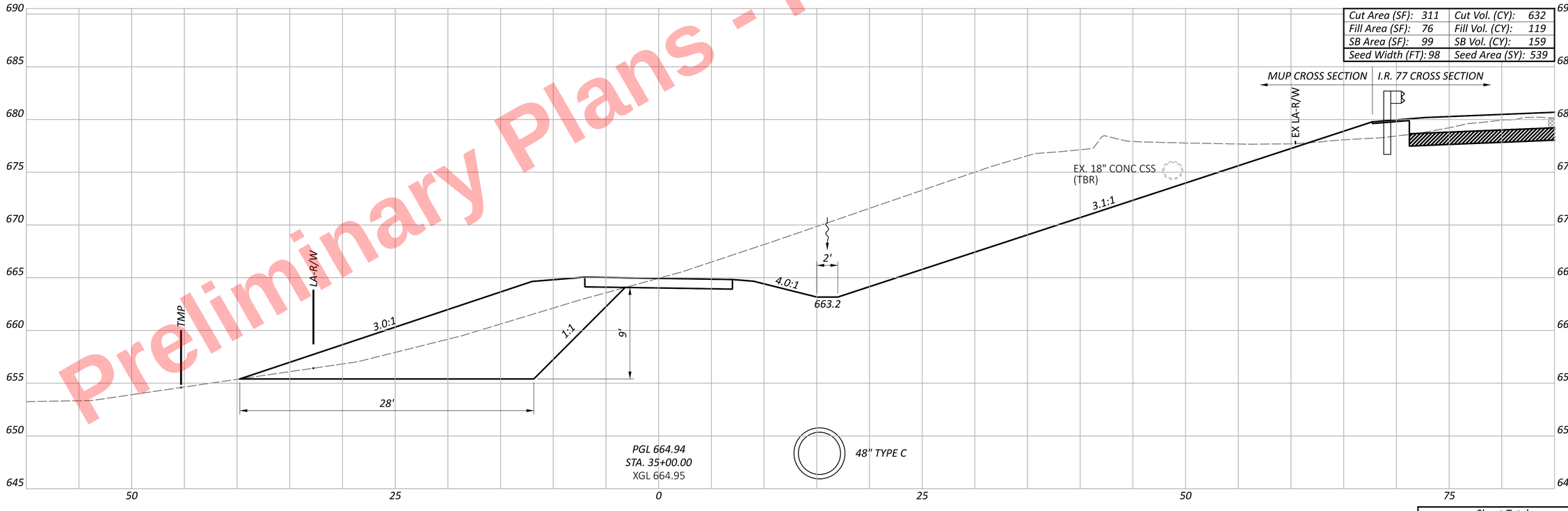
DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.607 TOTAL P.1269

MODEL: CLP_MUP - 35+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:28 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 36+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:31 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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CROSS SECTIONS - MUP WEST
STA. 36+00.00 TO STA. 36+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1083	1183	260	357

DESIGN AGENCY
HNTB

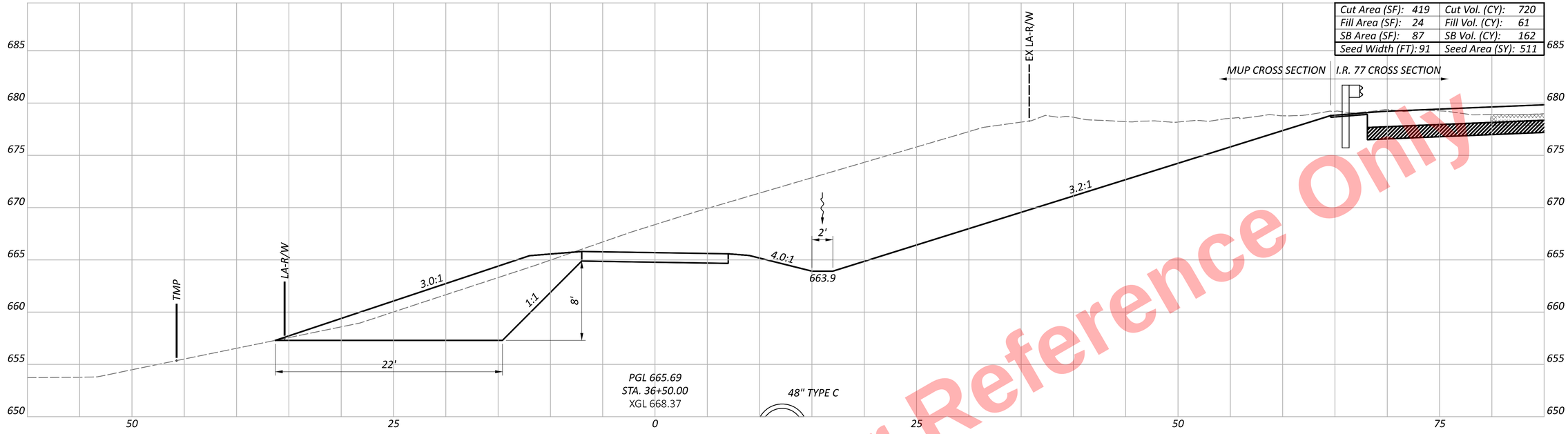
DESIGNER KMM

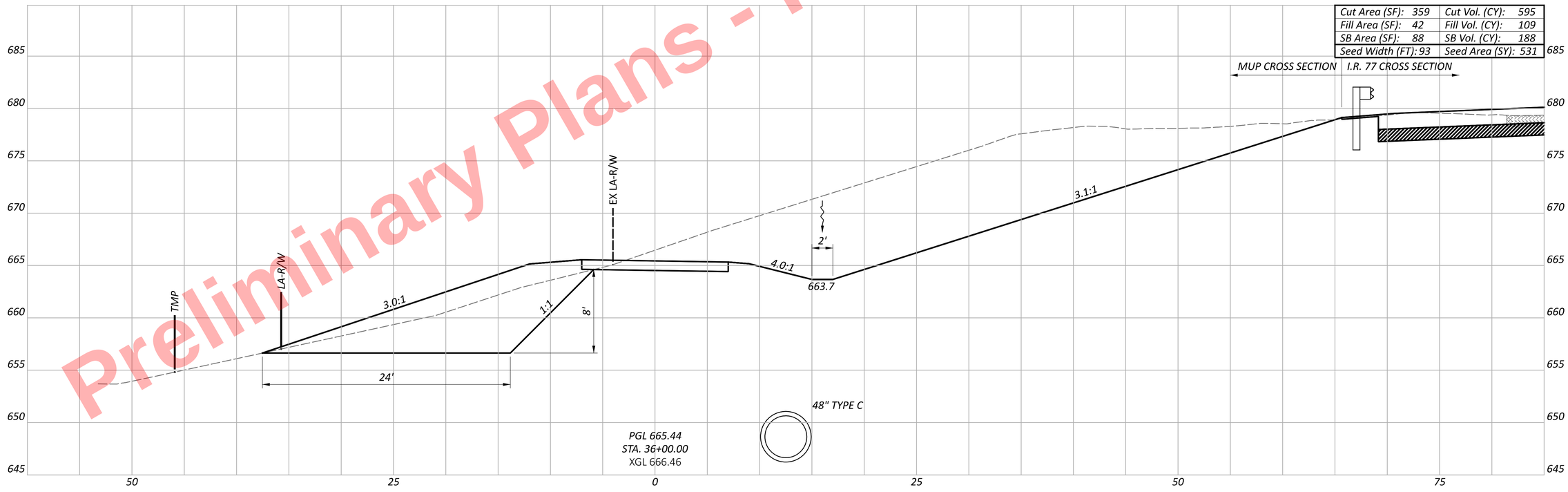
REVIEWER AS 11/05/25

PROJECT ID 105743

SHEET P.608 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

CROSS SECTIONS - MUP WEST
STA. 37+00.00 TO STA. 37+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1042	1315	170	350

DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.609
TOTAL P.1269

MODEL: CLP_MUP - 37+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:33 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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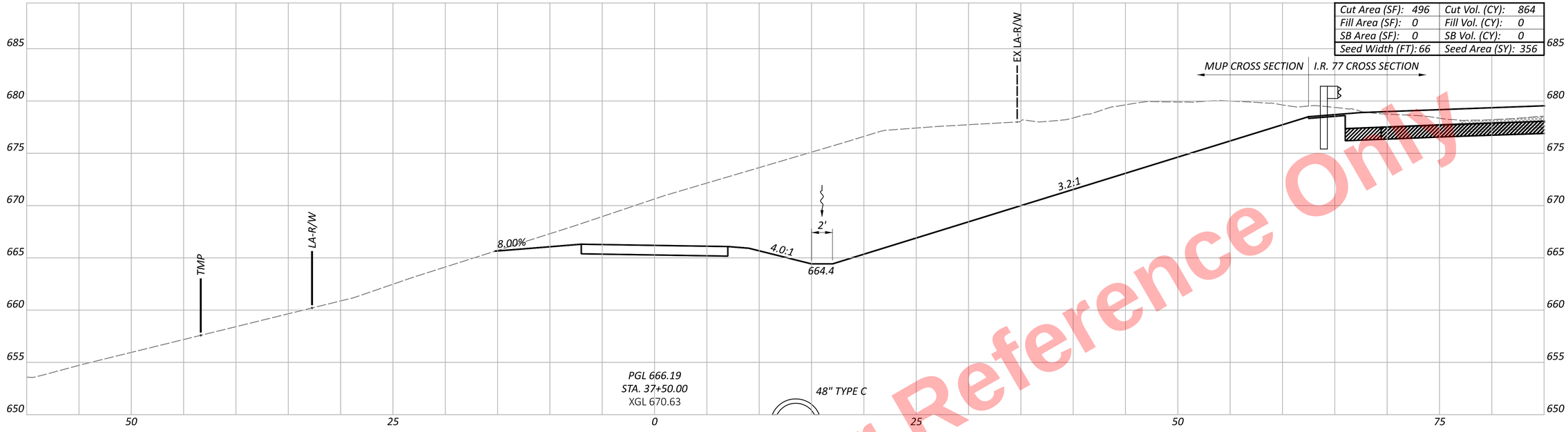
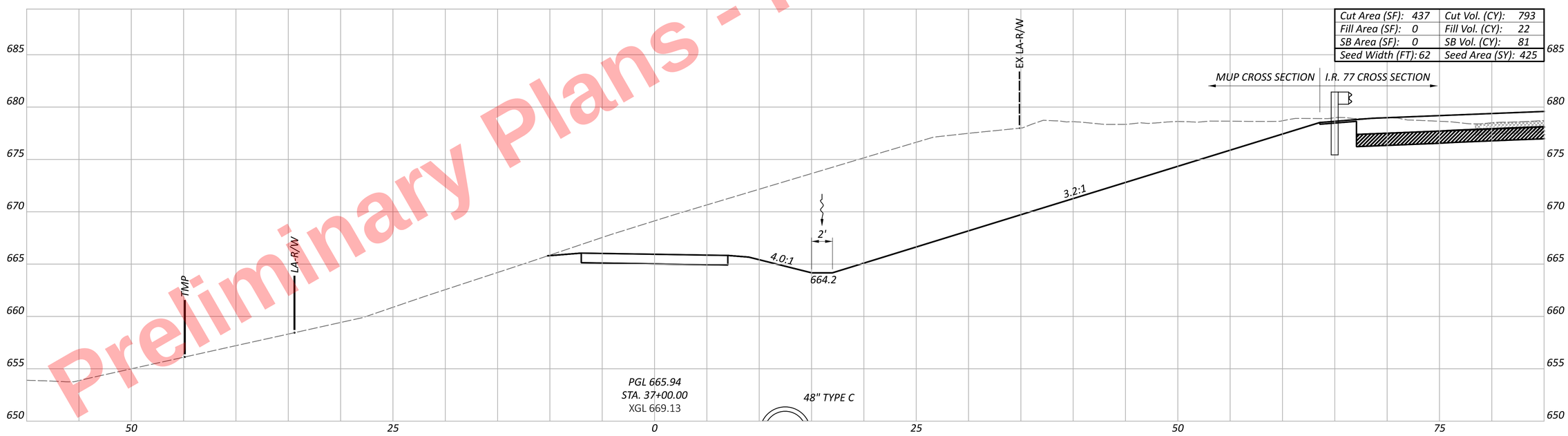
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





Preliminary Plans - Not For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 38+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:35 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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CROSS SECTIONS - MUP WEST
STA. 38+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
781	1657	22	81

DESIGN AGENCY
HNTB

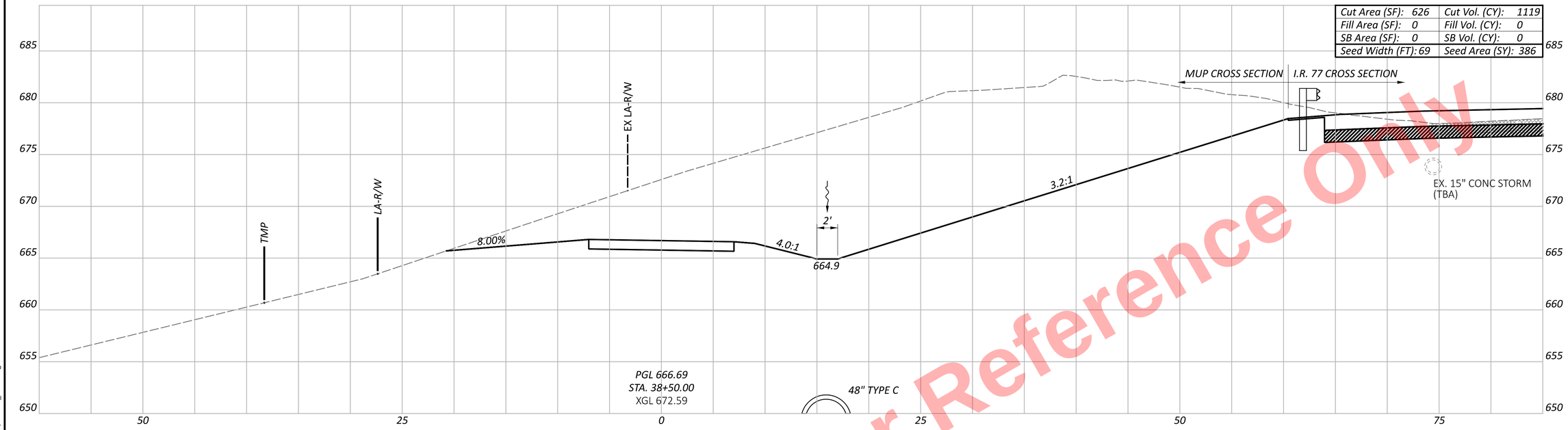
DESIGNER
KMM

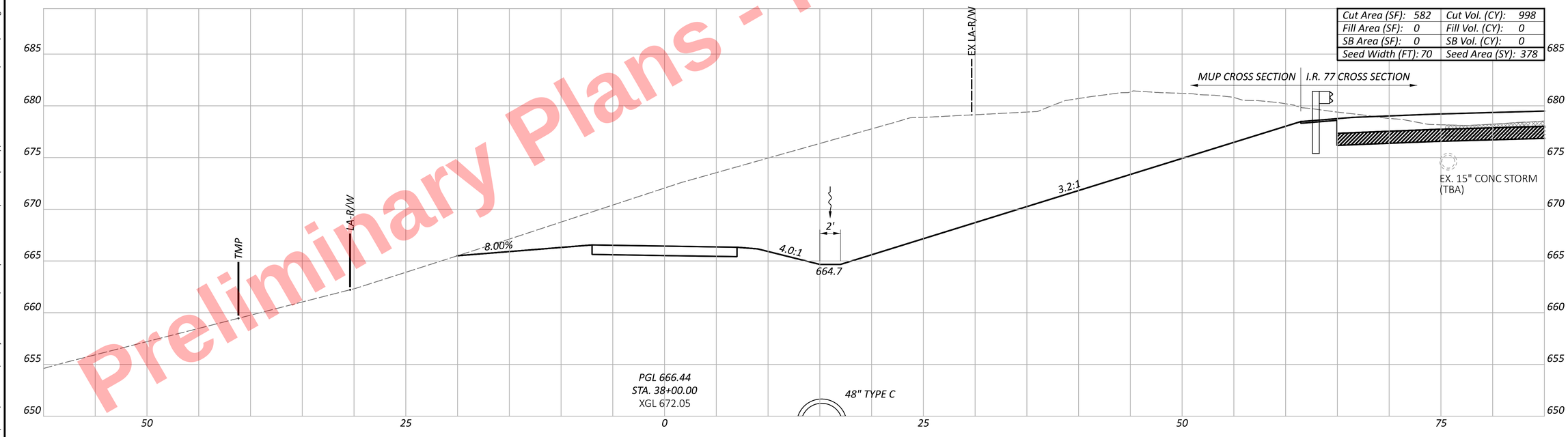
REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.610 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





Preliminary Plans - Not For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 38+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:38 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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CROSS SECTIONS - MUP WEST
STA. 38+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
764	2117	0	0

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.611 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
375	1145	0	0

CROSS SECTIONS - MUP WEST
STA. 39+00.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.612 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 39+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:40 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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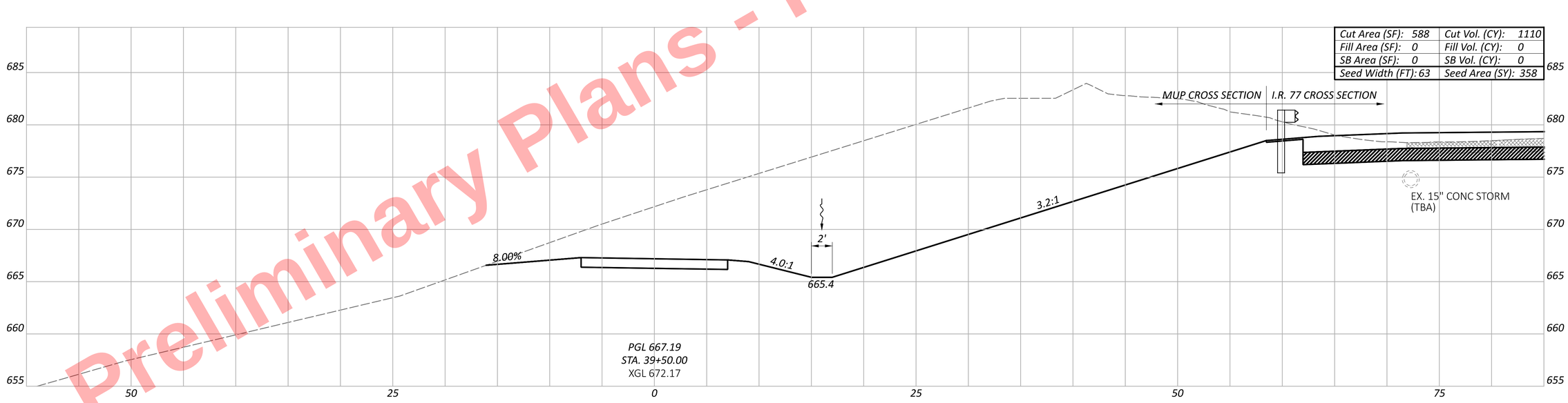
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
358	1110	0	0

CROSS SECTIONS - MUP WEST
STA. 39+50.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.613 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 39+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:42 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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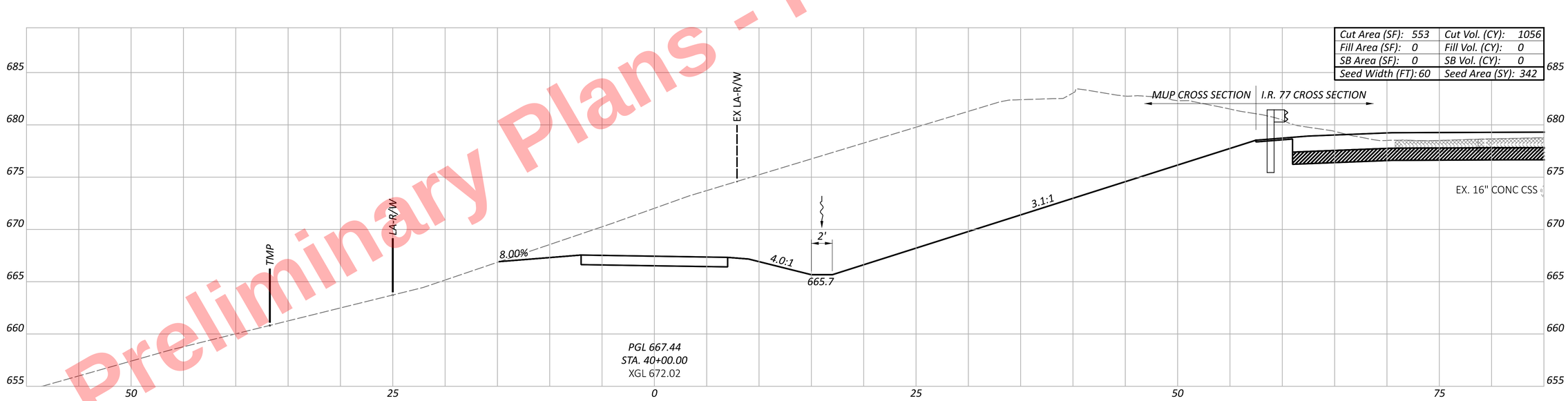
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



CROSS SECTIONS - MUP WEST
STA. 40+00.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
342	1056	0	0

SHEET P.614 TOTAL P.1269

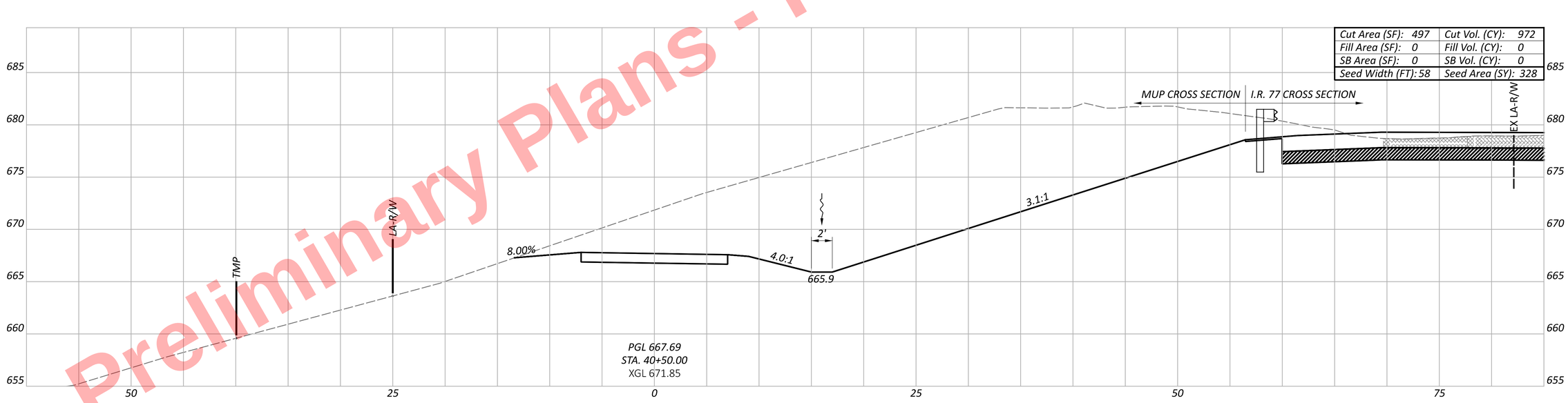
CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 40+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:43 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_XS701.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only

Cut Area (SF): 497	Cut Vol. (CY): 972
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 58	Seed Area (SY): 328



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
328	972	0	0

CROSS SECTIONS - MUP WEST
STA.40+50.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.615 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 40+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:45 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only

Cut Area (SF):	468	Cut Vol. (CY):	894
Fill Area (SF):	0	Fill Vol. (CY):	0
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	56	Seed Area (SY):	317

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
317	894	0	0

CROSS SECTIONS - MUP WEST
STA. 41+00.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

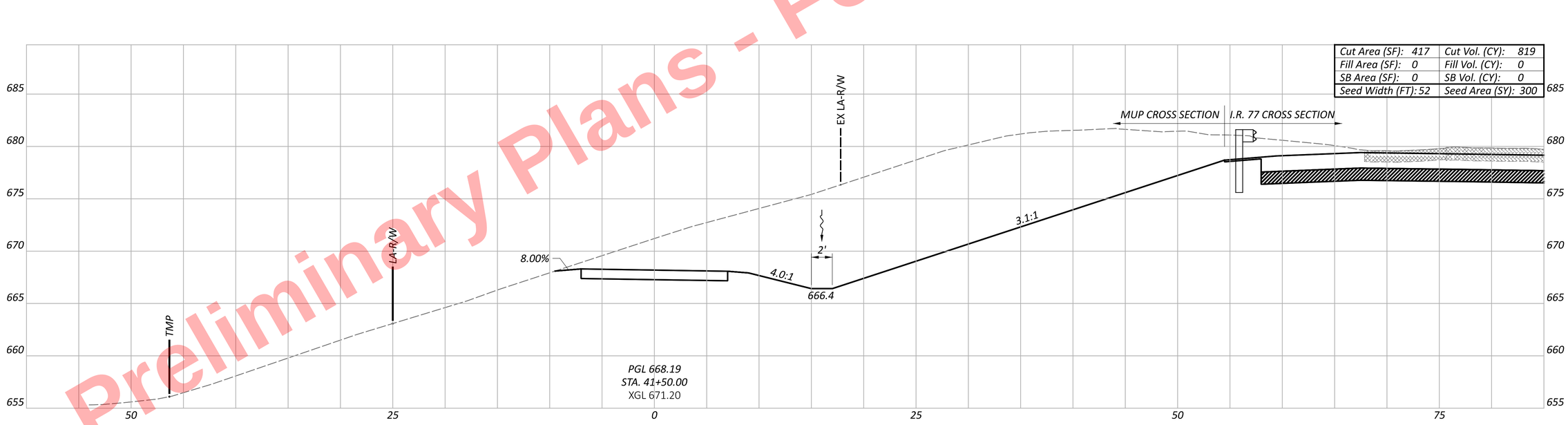
SHEET P.616 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 41+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:47 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\400-Engineering\Roadway\Sheets\105743_XS701.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 41+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:48 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

CROSS SECTIONS - MUP WEST
STA. 41+50.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
AS 11/05/25

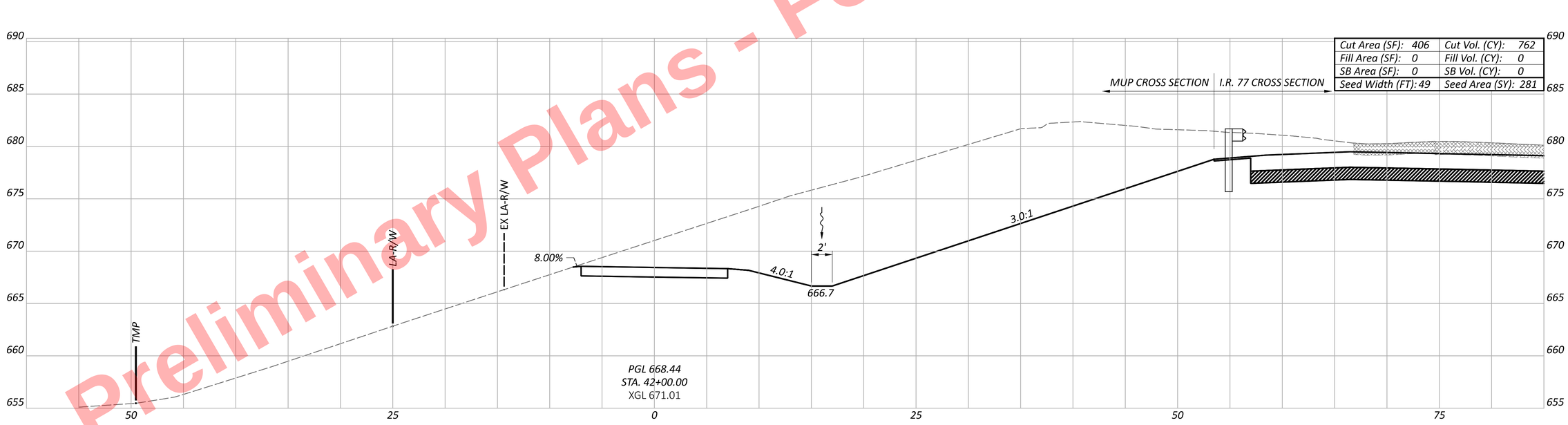
PROJECT ID
105743

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
300	819	0	0

SHEET P.617 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
281	762	0	0

CUY-77-11.41 - PART 1

CROSS SECTIONS - MUP WEST
STA. 42+00.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
AS 11/05/25

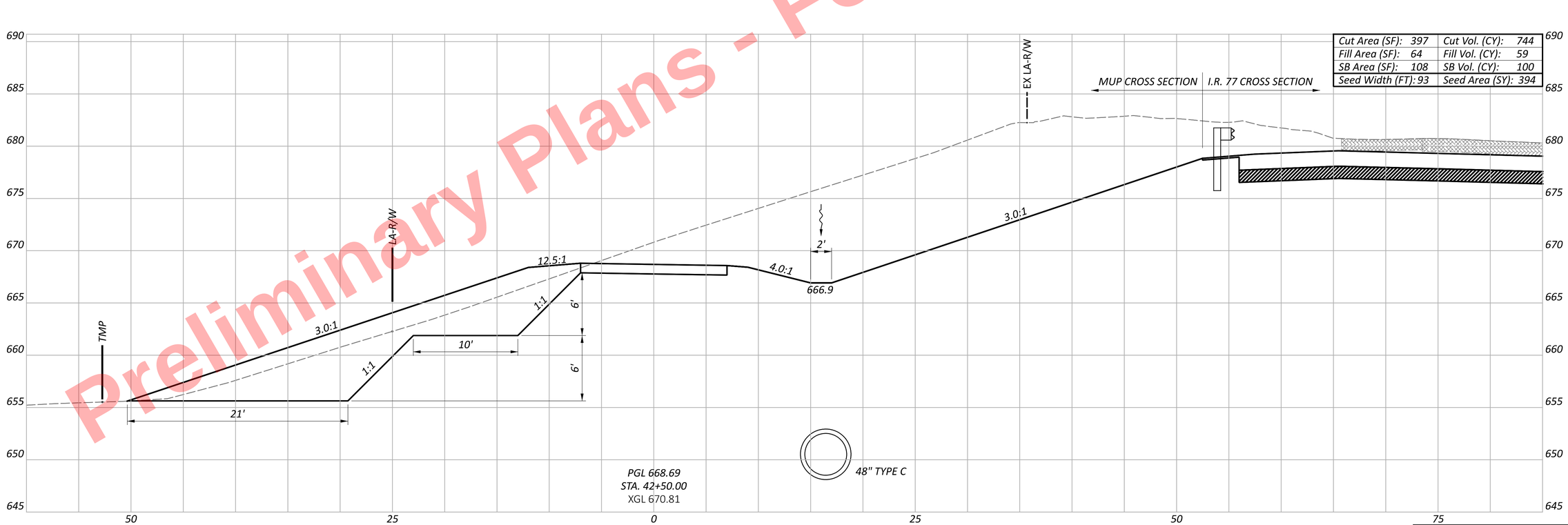
PROJECT ID
105743

SHEET P.618 TOTAL P.1269

MODEL: CLP_MUP - 42+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:04:50 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF):	397	Cut Vol. (CY):	744
Fill Area (SF):	64	Fill Vol. (CY):	59
SB Area (SF):	108	SB Vol. (CY):	100
Seed Width (FT):	93	Seed Area (SY):	394

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
394	744	59	100

CUY-77-11.41 - PART 1

CROSS SECTIONS - MUP WEST
STA. 42+50.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
AS 11/05/25

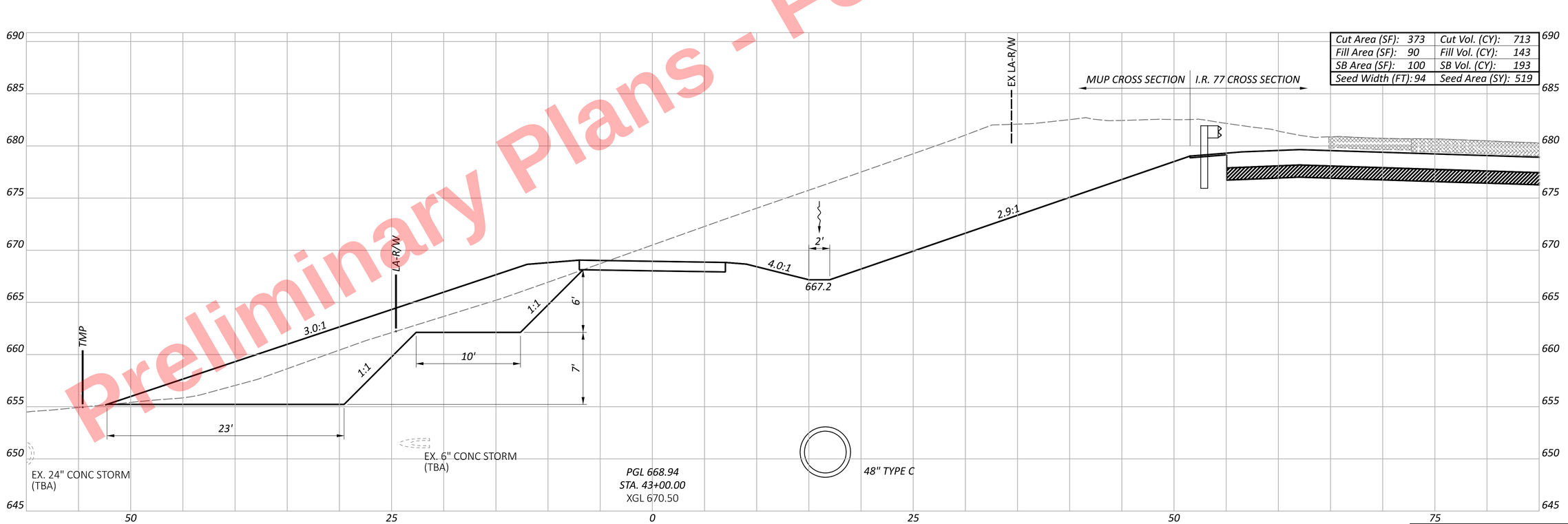
PROJECT ID
105743

SHEET P.619 TOTAL P.1269

MODEL: CLP_MUP - 42+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:05:08 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Cut Area (SF):	373	Cut Vol. (CY):	713
Fill Area (SF):	90	Fill Vol. (CY):	143
SB Area (SF):	100	SB Vol. (CY):	193
Seed Width (FT):	94	Seed Area (SY):	519

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
519	713	143	193

CUY-77-11.41 - PART 1

CROSS SECTIONS - MUP WEST
STA. 43+00.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

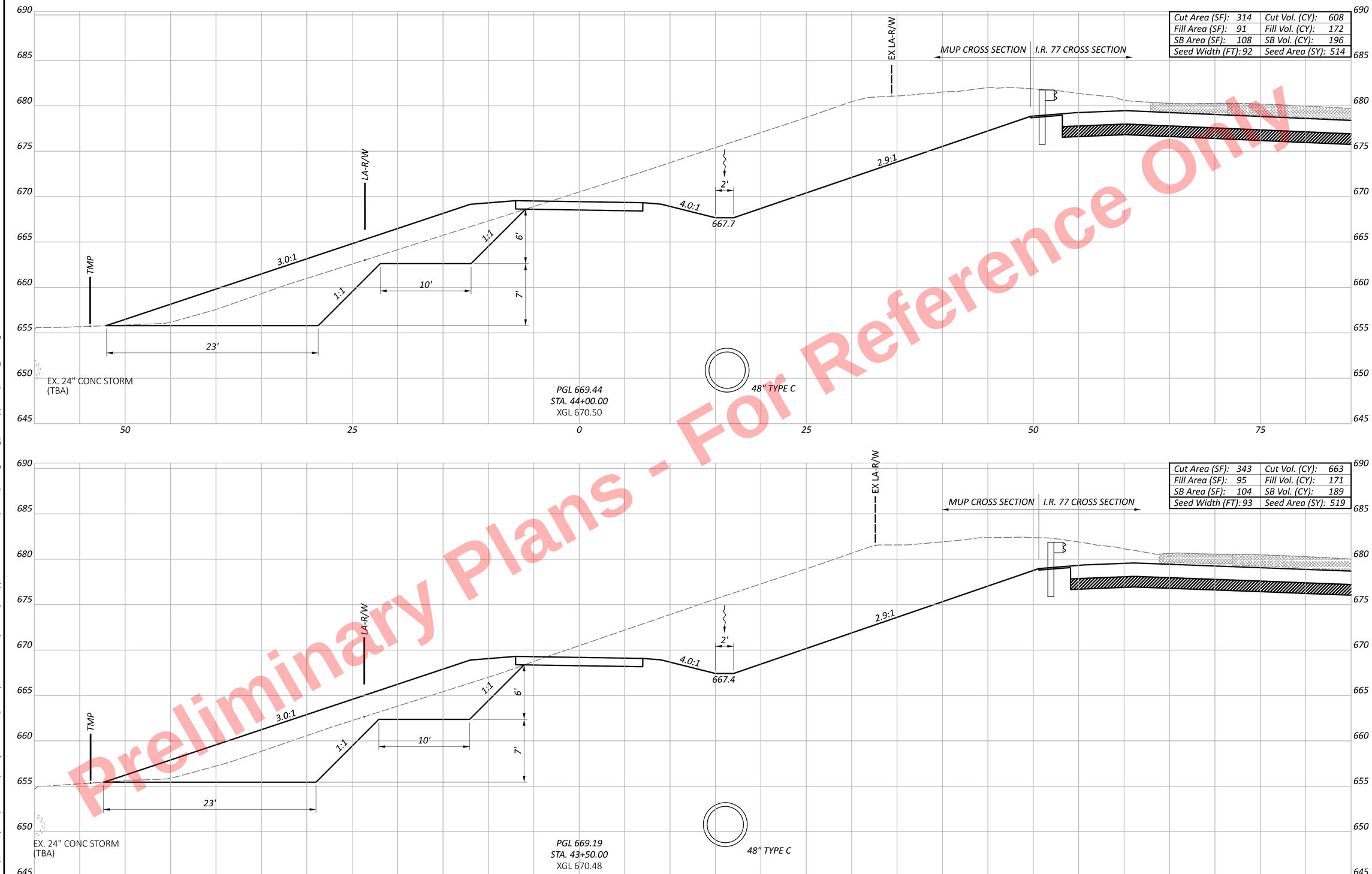
REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.620 TOTAL P.1269

MODEL: CLP_MUP - 43+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:05:10 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

CROSS SECTIONS - MUP WEST
STA. 43+50.00 TO STA. 44+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1033	1271	343	385

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

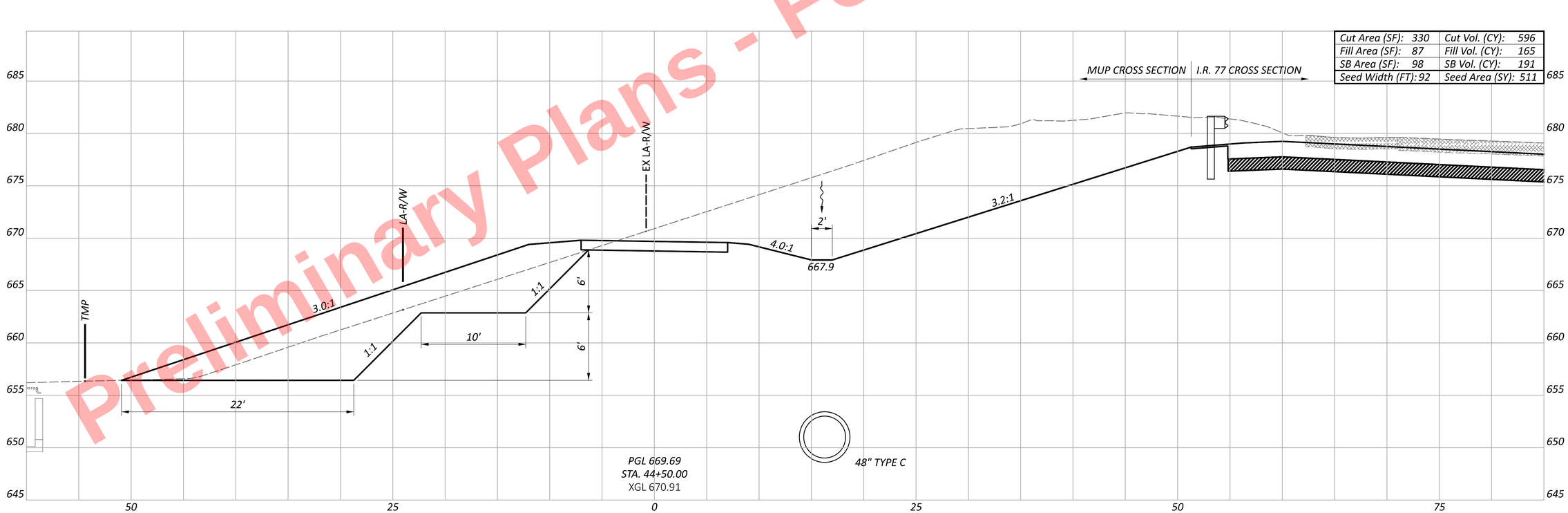
SHEET P.621 | TOTAL P.1269

MODEL: CLP_MUP - 43+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:05:12 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\00-Engineering\Roadway\Sheets\105743_XS701.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only

Cut Area (SF): 330	Cut Vol. (CY): 596
Fill Area (SF): 87	Fill Vol. (CY): 165
SB Area (SF): 98	SB Vol. (CY): 191
Seed Width (FT): 92	Seed Area (SY): 511



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
511	596	165	191

CUY-77-11.41 - PART 1

CROSS SECTIONS - MUP WEST
STA. 44+50.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.622 TOTAL P.1269

MODEL: CLP_MUP - 44+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:05:14 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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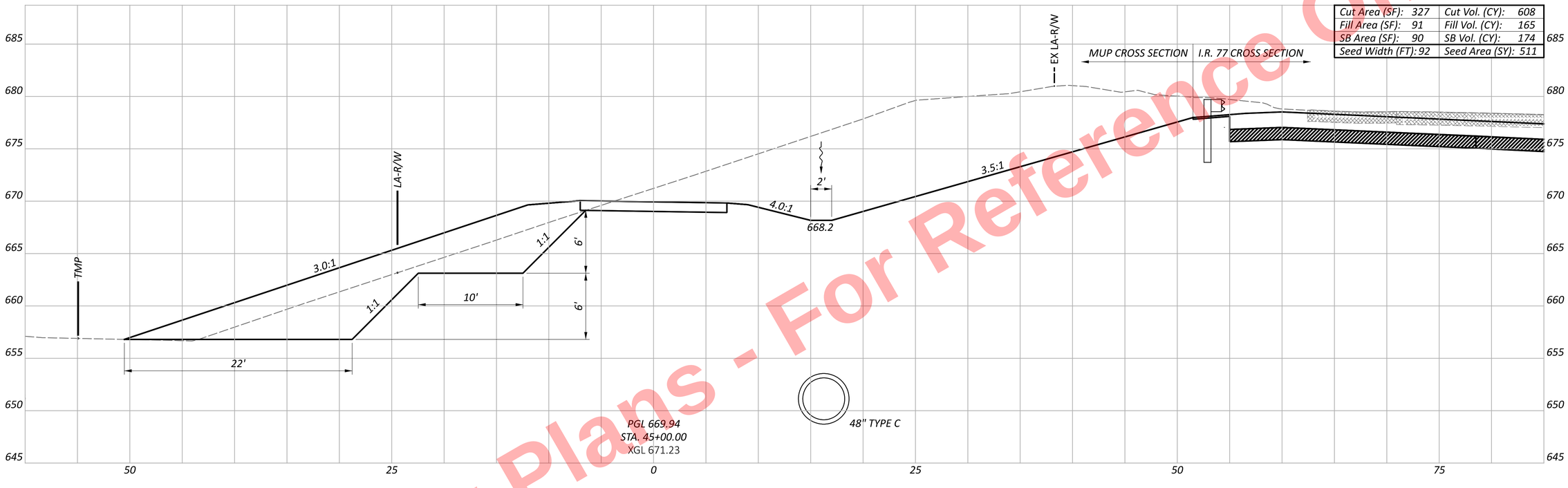
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	327	Cut Vol. (CY):	608
Fill Area (SF):	91	Fill Vol. (CY):	165
SB Area (SF):	90	SB Vol. (CY):	174
Seed Width (FT):	92	Seed Area (SY):	511

Preliminary Plans - For Reference Only

CROSS SECTIONS - MUP WEST
STA. 45+00.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

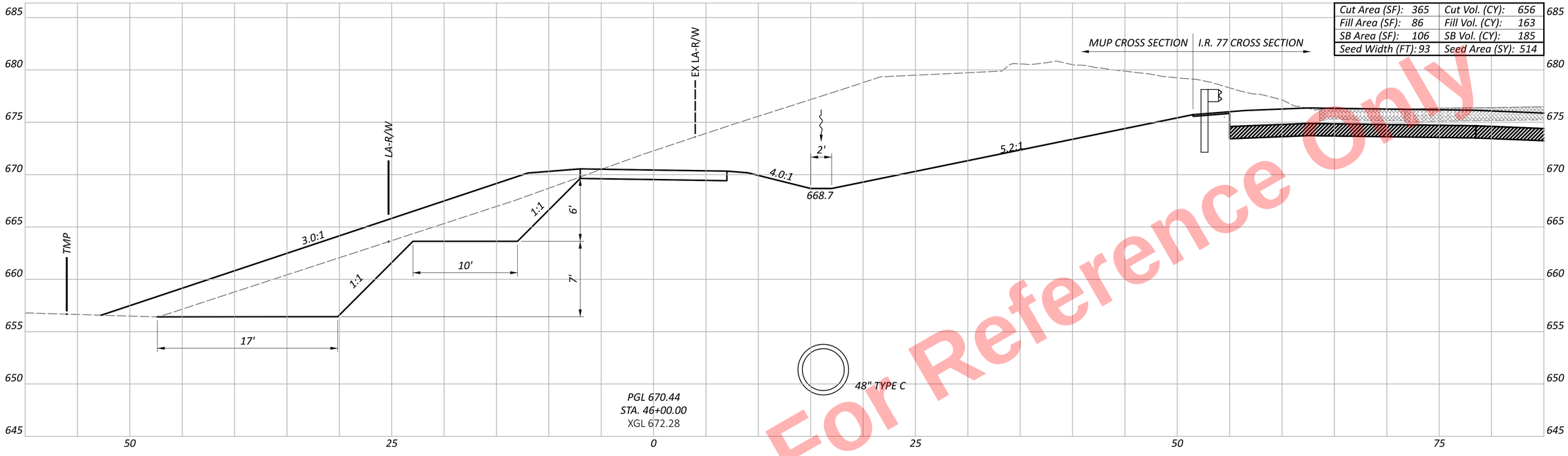
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
511	608	165	174

SHEET P.623 | TOTAL P.1269

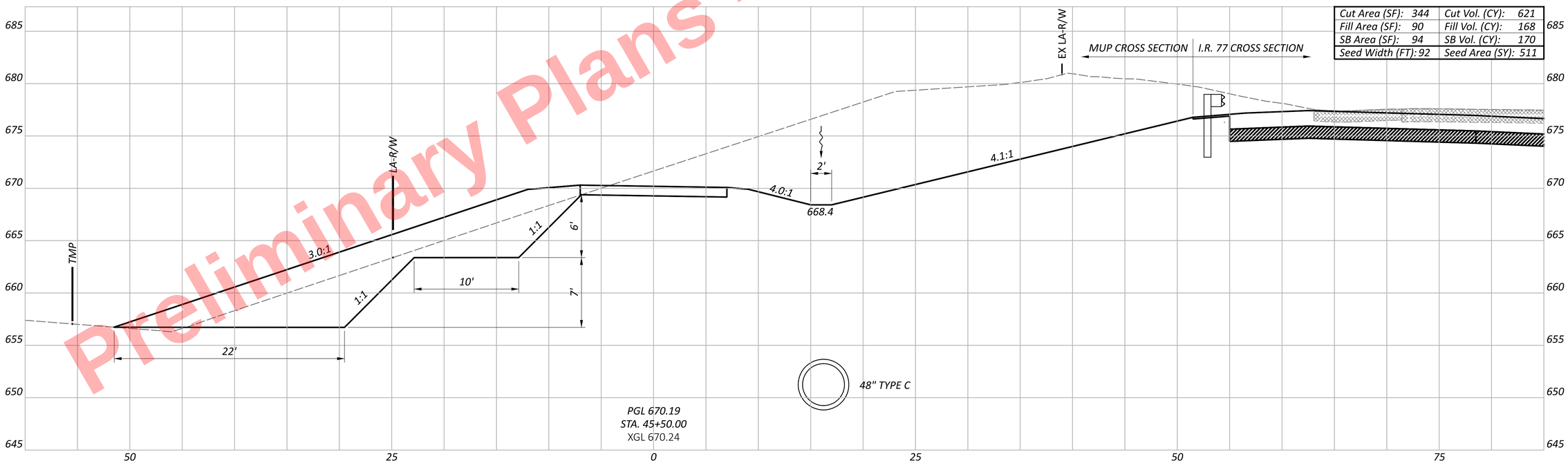
CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 45+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:05:16 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	365	Cut Vol. (CY):	656
Fill Area (SF):	86	Fill Vol. (CY):	163
SB Area (SF):	106	SB Vol. (CY):	185
Seed Width (FT):	93	Seed Area (SY):	514



Cut Area (SF):	344	Cut Vol. (CY):	621
Fill Area (SF):	90	Fill Vol. (CY):	168
SB Area (SF):	94	SB Vol. (CY):	170
Seed Width (FT):	92	Seed Area (SY):	511

Preliminary Plans - For Reference Only

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1025	1277	331	355

CUY-77-11.41 - PART 1

CROSS SECTIONS - MUP WEST
STA.45+50.00 TO STA. 46+00.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.624 | TOTAL P.1269

MODEL: CLP_MUP - 45+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:05:18 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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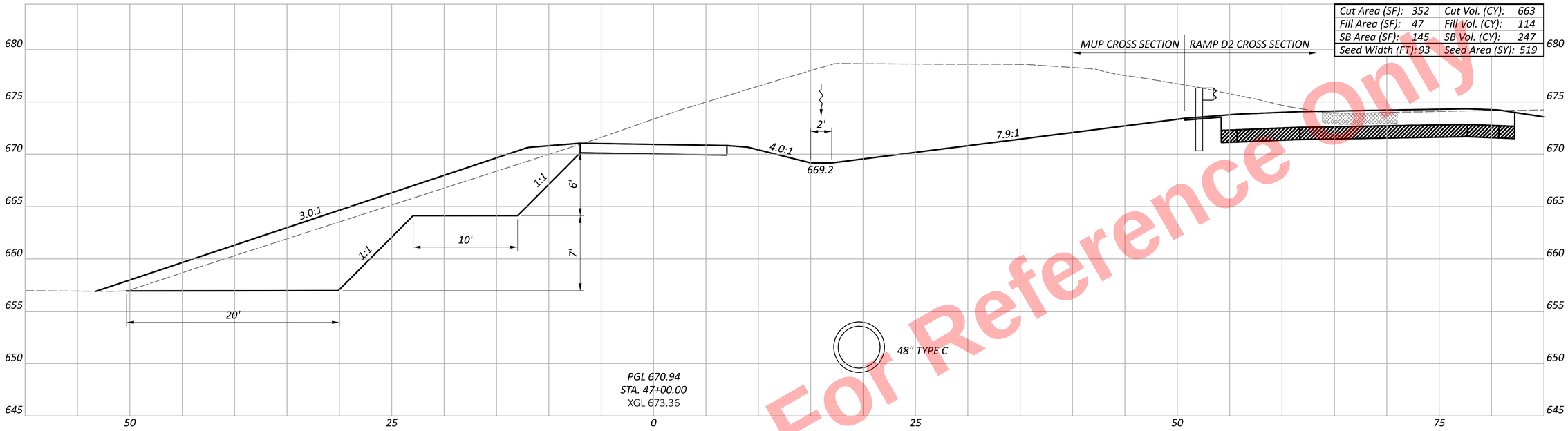
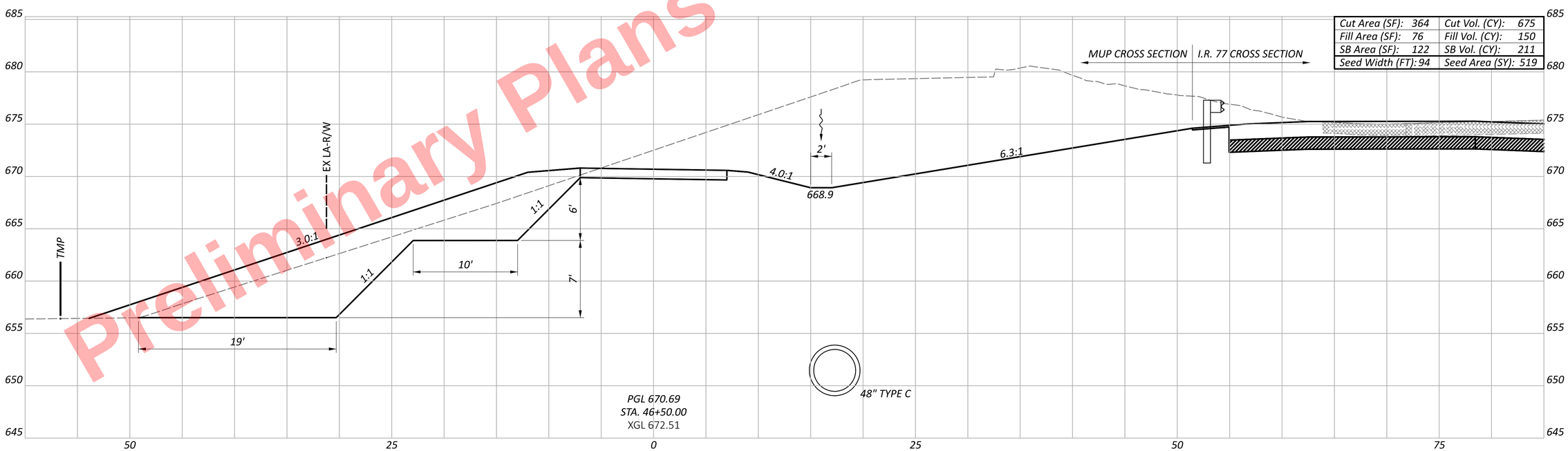
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	352	Cut Vol. (CY):	663
Fill Area (SF):	47	Fill Vol. (CY):	114
SB Area (SF):	145	SB Vol. (CY):	247
Seed Width (FT):	93	Seed Area (SY):	519



Cut Area (SF):	364	Cut Vol. (CY):	675
Fill Area (SF):	76	Fill Vol. (CY):	150
SB Area (SF):	122	SB Vol. (CY):	211
Seed Width (FT):	94	Seed Area (SY):	519

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1038	1338	264	458

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 46+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:05:20 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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CROSS SECTIONS - MUP WEST
STA. 46+50.00 TO STA. 47+00.00

DESIGN AGENCY
HNTB

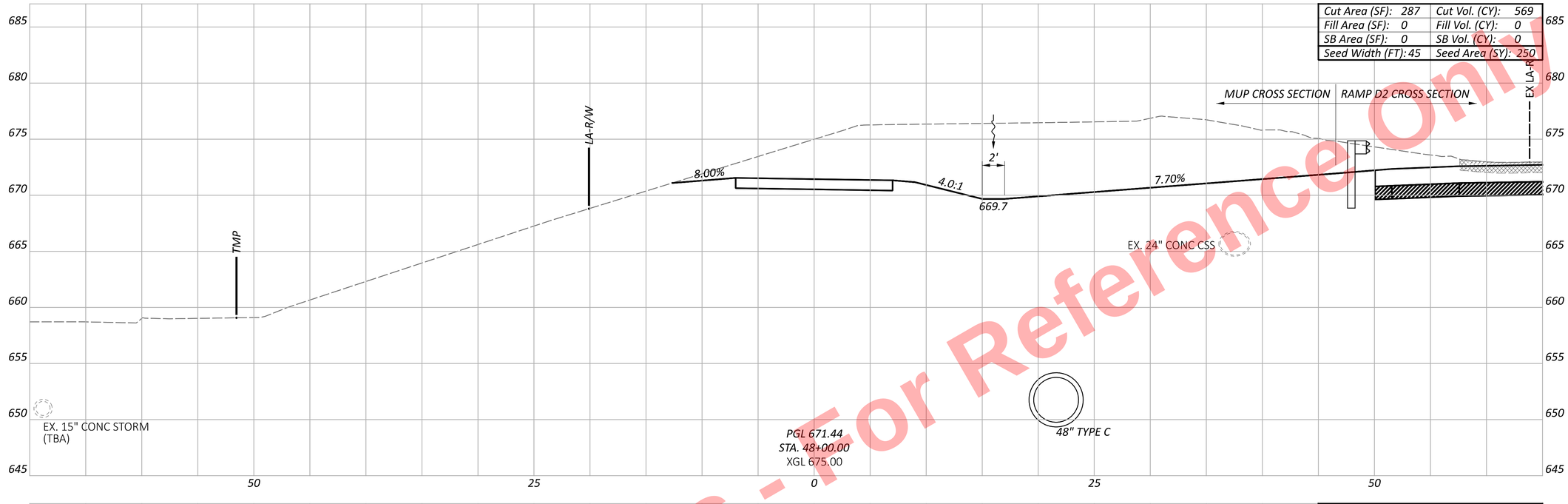
DESIGNER
KMM

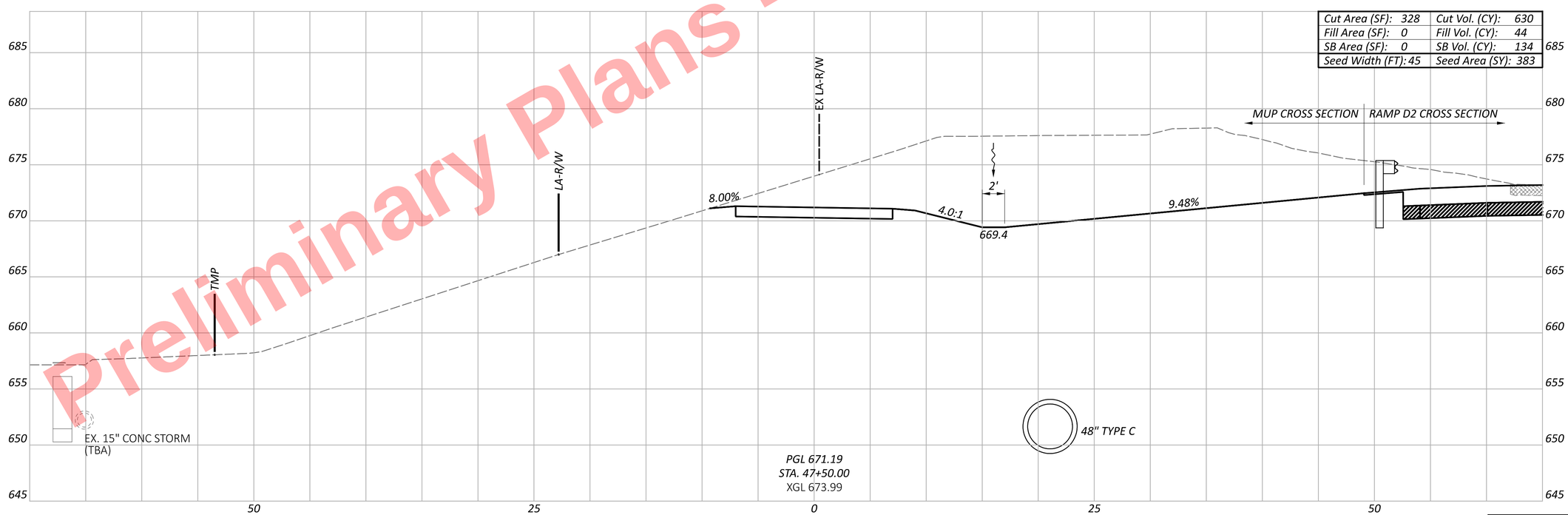
REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.625 | TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 47+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:05:23 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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CROSS SECTIONS - MUP WEST
STA. 47+50.00 TO STA. 48+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
633	1199	44	134

DESIGN AGENCY
HNTB

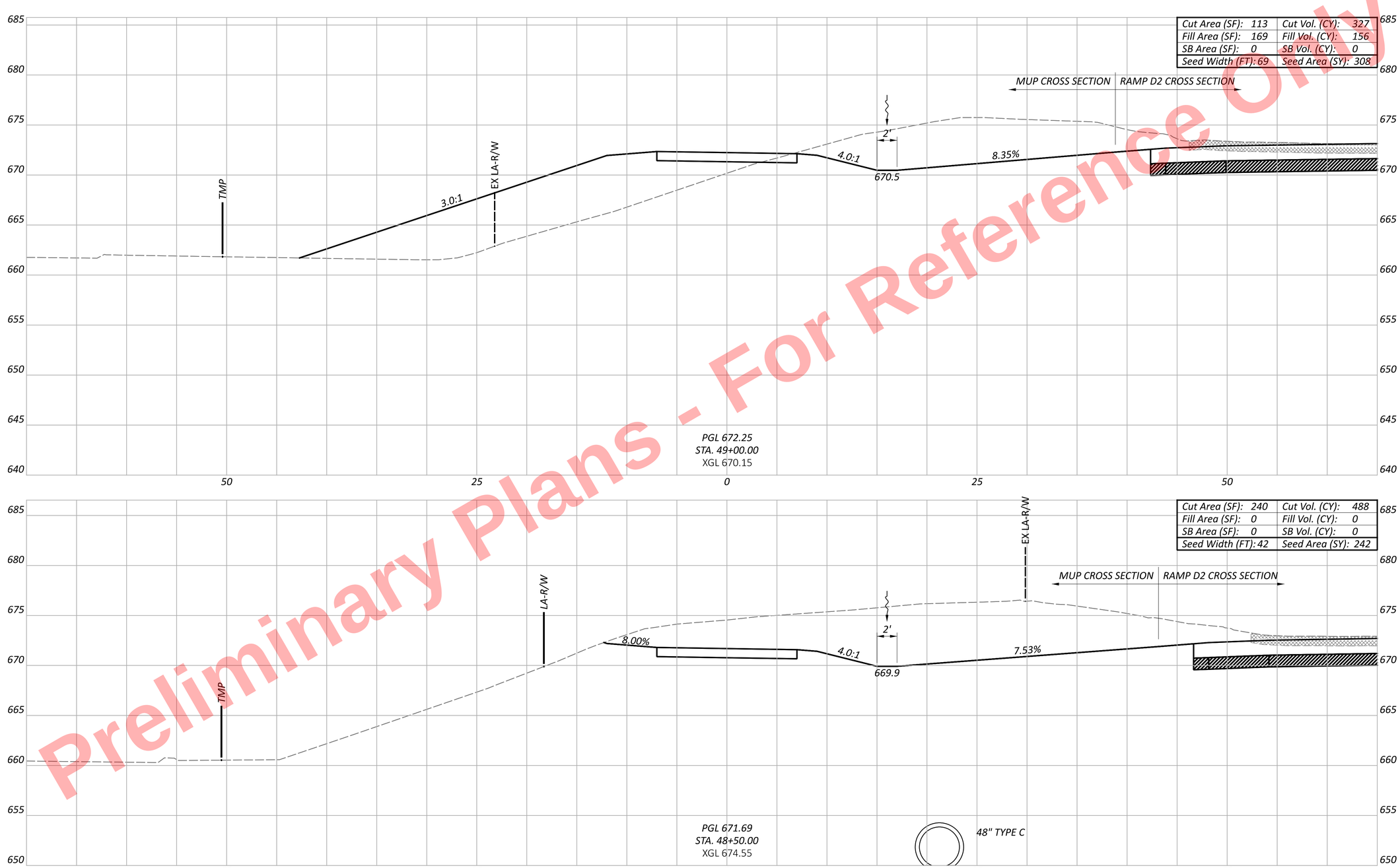
DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

SHEET P.626 | TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Preliminary Plans - For Reference Only

CROSS SECTIONS - MUP WEST
STA.4 8+50.00 TO STA. 49+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
550	815	156	0

DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.627 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 48+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:05:25 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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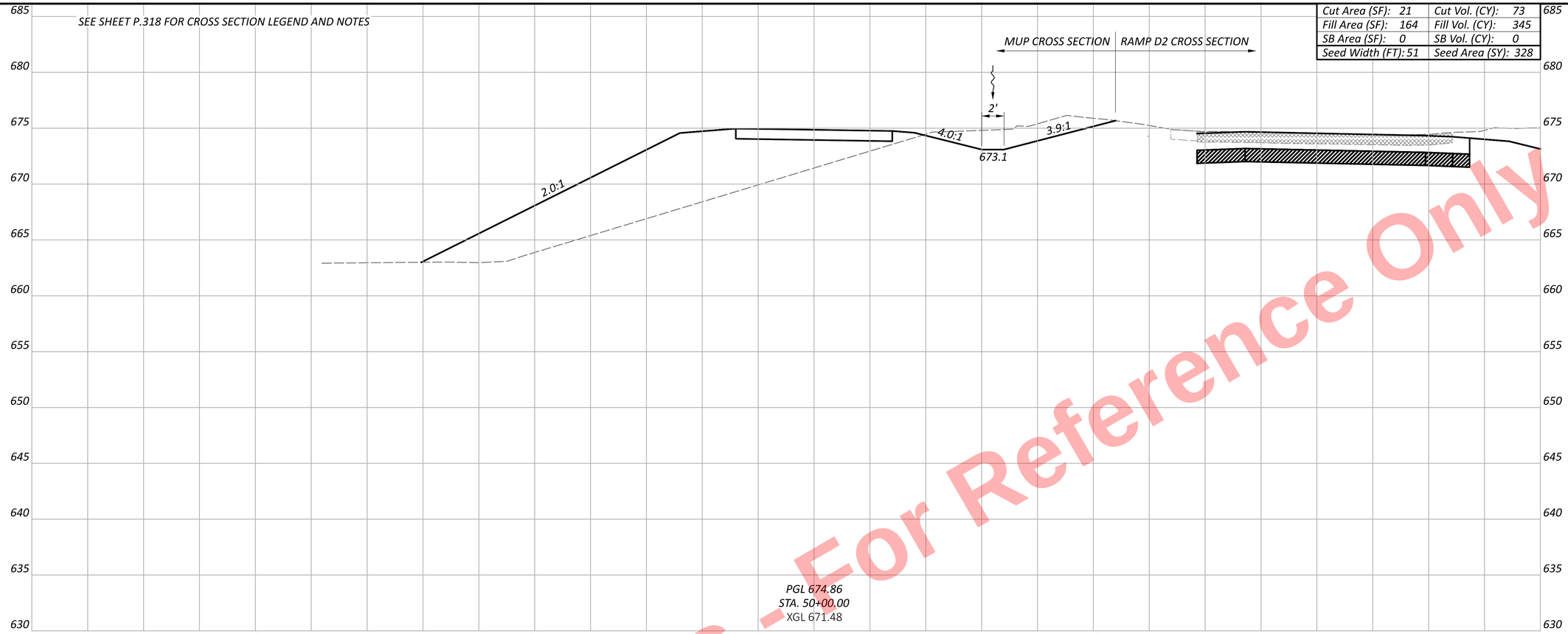
Preliminary Plans - For Reference Only

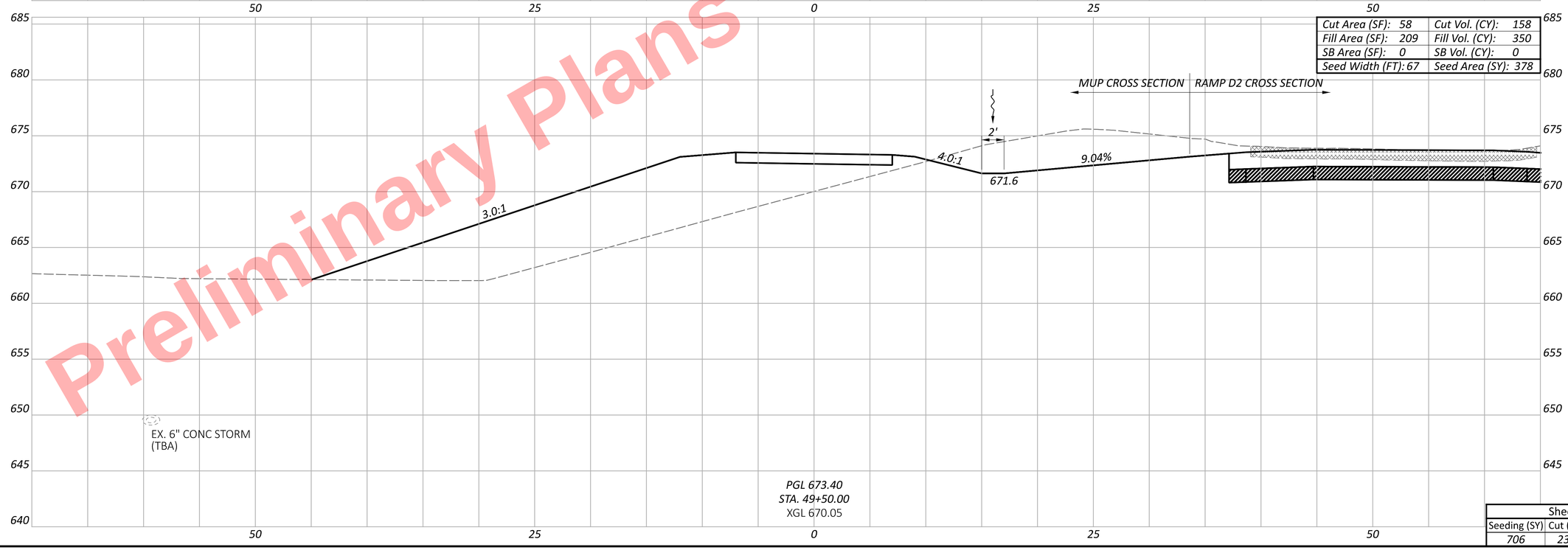
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Cut Area (SF):	21	Cut Vol. (CY):	73
Fill Area (SF):	164	Fill Vol. (CY):	345
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	51	Seed Area (SY):	328



PGL 674.86
STA. 50+00.00
XGL 671.48

Cut Area (SF):	58	Cut Vol. (CY):	158
Fill Area (SF):	209	Fill Vol. (CY):	350
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	67	Seed Area (SY):	378



EX. 6" CONC STORM
(TBA)

PGL 673.40
STA. 49+50.00
XGL 670.05

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
706	231	695	0

CROSS SECTIONS - MUP WEST
STA. 49+50.00 TO STA. 50+00.00

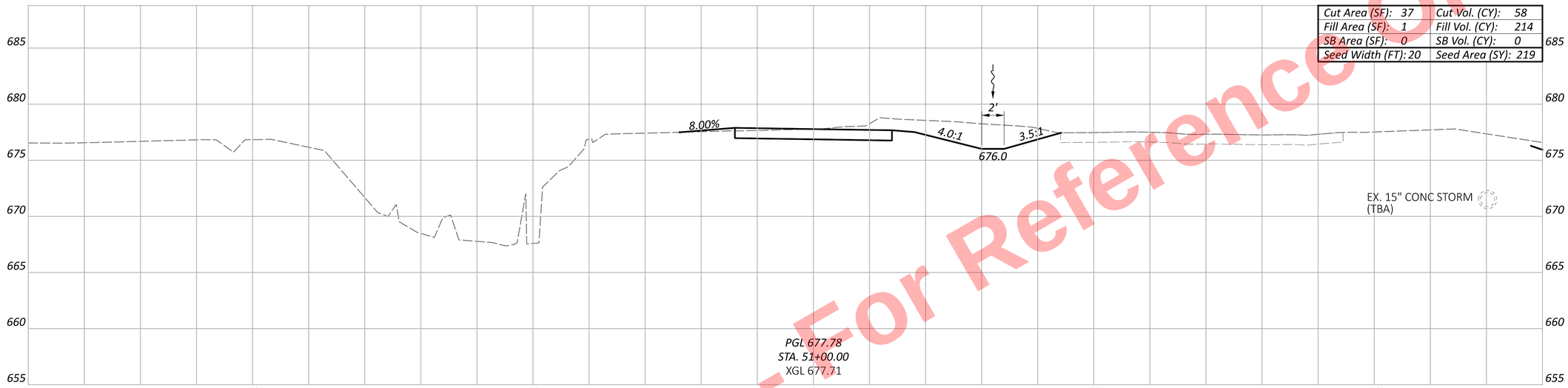
DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.628 TOTAL P.1269

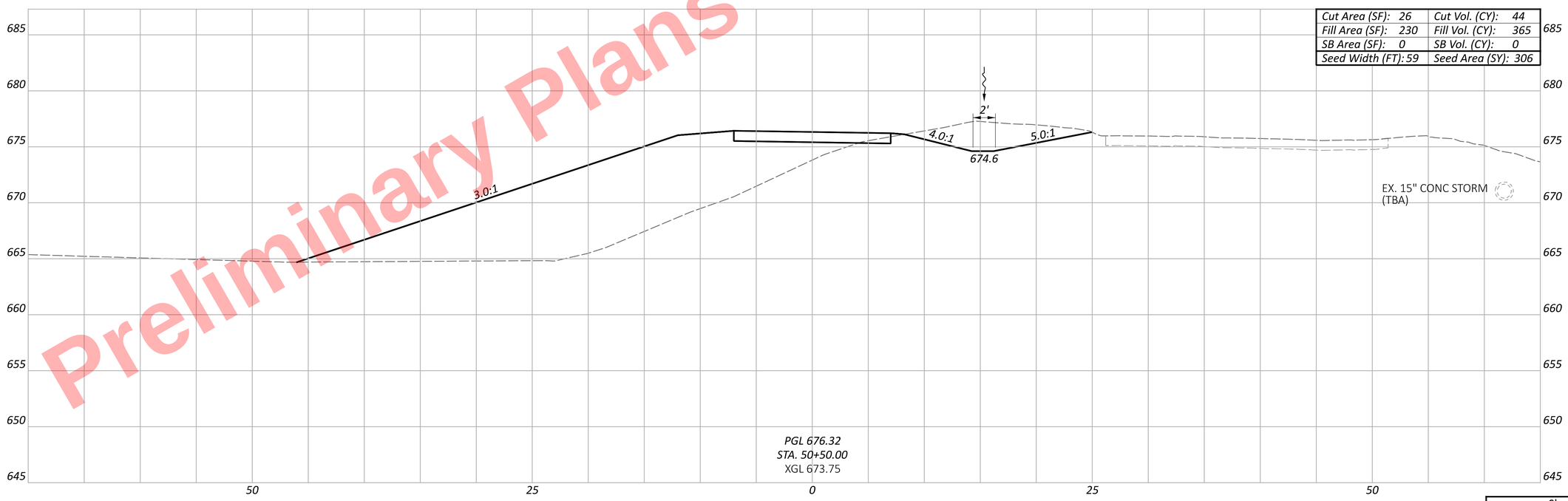
CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 49+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:05:27 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS701.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	37	Cut Vol. (CY):	58
Fill Area (SF):	1	Fill Vol. (CY):	214
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	20	Seed Area (SY):	219



Cut Area (SF):	26	Cut Vol. (CY):	44
Fill Area (SF):	230	Fill Vol. (CY):	365
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	59	Seed Area (SY):	306

Preliminary Plans - For Reference Only

CROSS SECTIONS - MUP WEST
STA. 50+50.00 TO STA. 51+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
525	102	579	0

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
AS 11/05/25

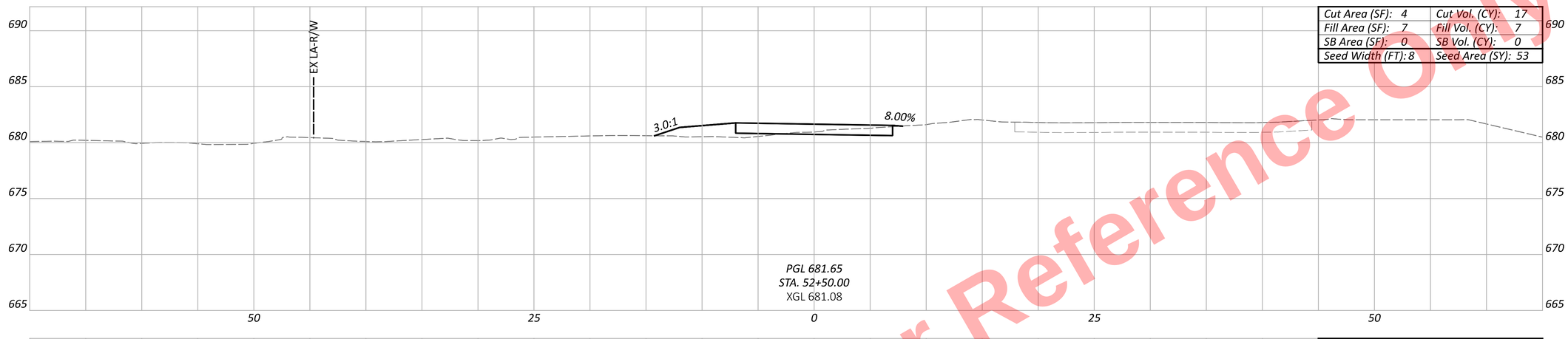
PROJECT ID
105743

SHEET P.629 TOTAL P.1269

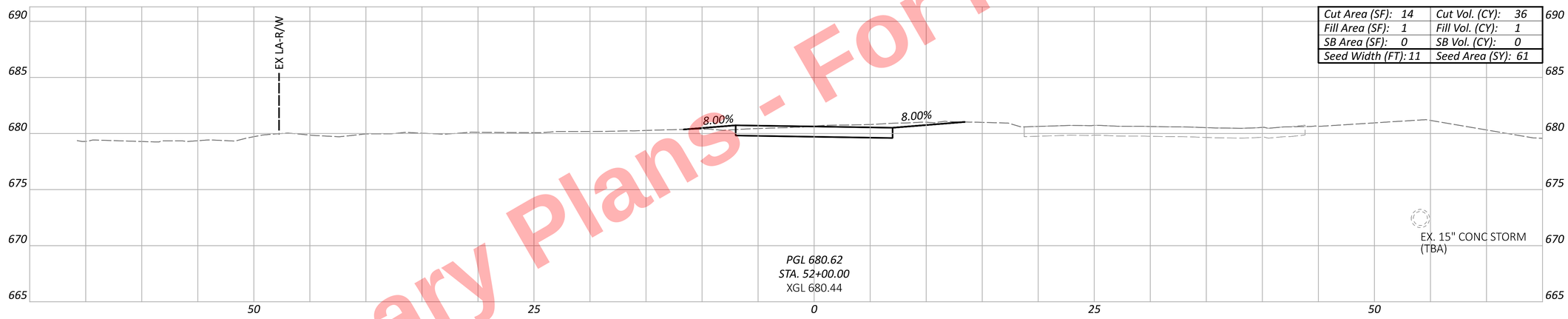
CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 50+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:05:30 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_XS701.dgn

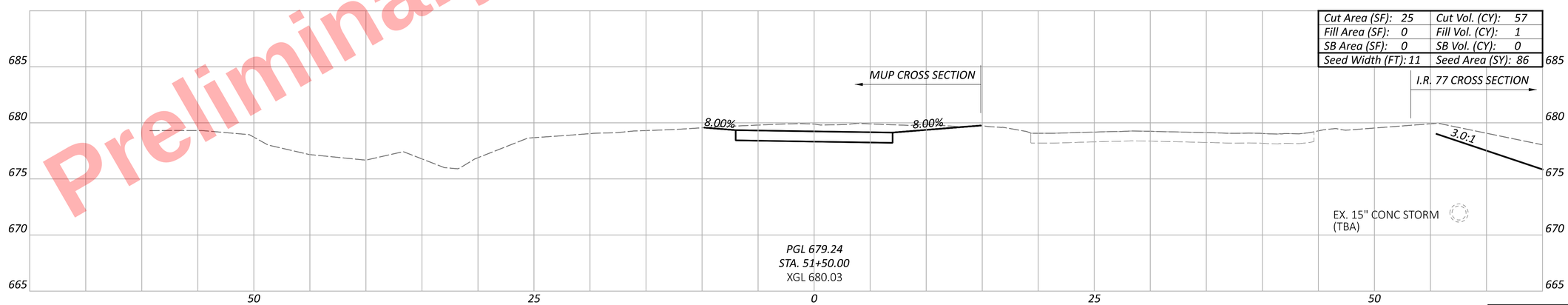
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 4	Cut Vol. (CY): 17
Fill Area (SF): 7	Fill Vol. (CY): 7
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 8	Seed Area (SY): 53



Cut Area (SF): 14	Cut Vol. (CY): 36
Fill Area (SF): 1	Fill Vol. (CY): 1
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 11	Seed Area (SY): 61



Cut Area (SF): 25	Cut Vol. (CY): 57
Fill Area (SF): 0	Fill Vol. (CY): 1
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 11	Seed Area (SY): 86

Preliminary Plans - For Reference Only

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
200	110	9	0

CROSS SECTIONS - MUP WEST
STA. 51+50.00 TO STA. 52+50.00

DESIGN AGENCY
HNTB

DESIGNER
KMM

REVIEWER
AS 11/05/25

PROJECT ID
105743

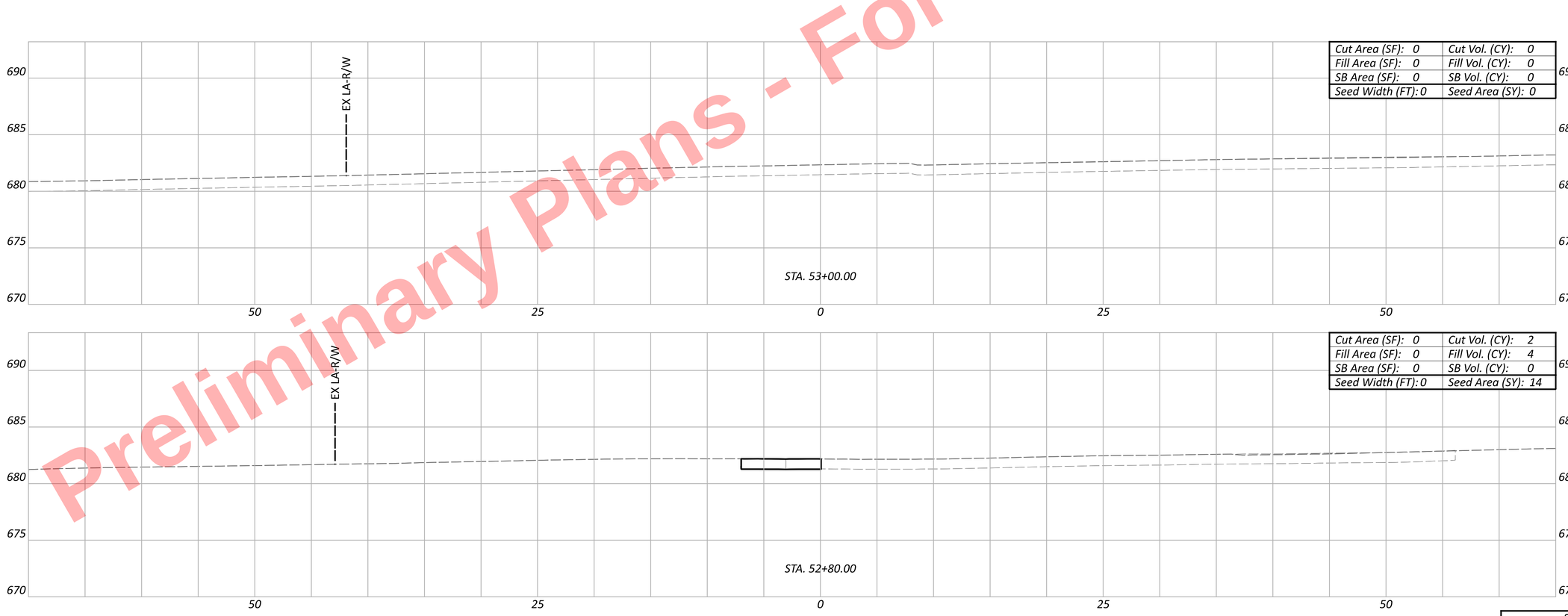
SHEET P.630 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 51+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:05:32 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\v00-Engineering\400-Engineering\Roadway\Sheets\105743_XS701.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



CUY-77-11.41 - PART 1

MODEL: CLP_MUP - 52+82.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 10:05:35 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\W00-Engineering\Roadway\Sheets\105743_XS701.dgn

CROSS SECTIONS - MUP WEST
STA. 52+82.00 TO END

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
14	2	4	0

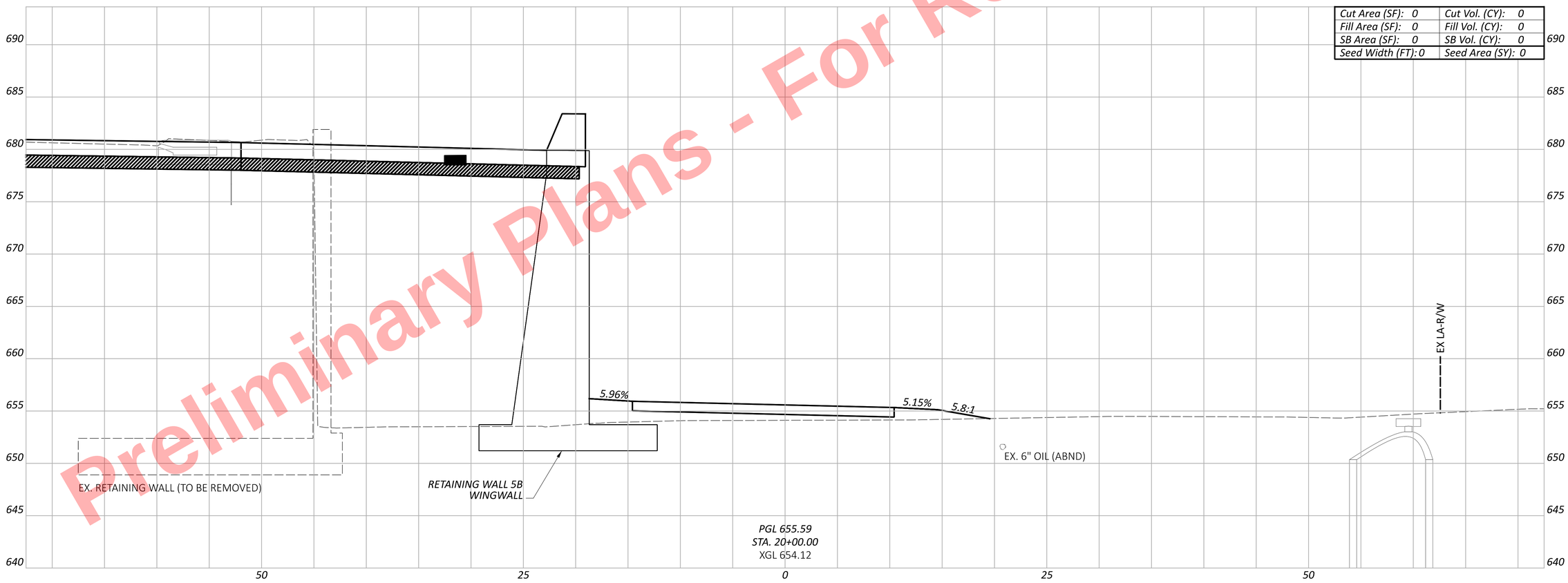
DESIGN AGENCY
HNTB

DESIGNER KMM
REVIEWER AS 11/05/25
PROJECT ID 105743
SHEET P.631 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 0	Seed Area (SY): 0



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
0	0	0	0

CUY-77-11.41 - PART 1

MODEL: CLP_6 - 20+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:54:21 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS702.dgn

CROSS SECTIONS - MUP EAST
STA. 20+00.00

DESIGN AGENCY
HNTB

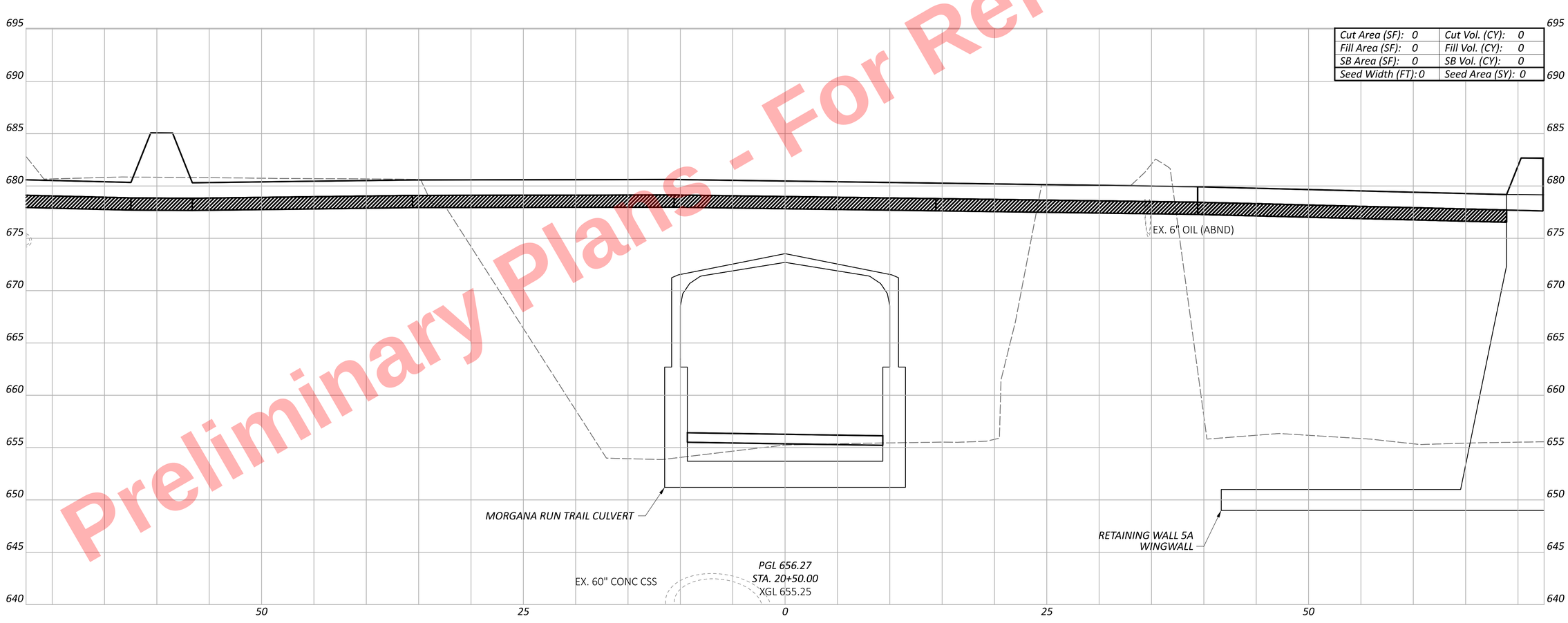
DESIGNER
EAP

REVIEWER
KKP 05/02/22

PROJECT ID
105743

SHEET	TOTAL
P.632	P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_6 - 20+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:54:22 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_XS702.dgn

CROSS SECTIONS - MUP EAST
STA. 20+50.00

DESIGN AGENCY
HNTB

DESIGNER
MTD

REVIEWER
KKP 05/02/22

PROJECT ID
105743

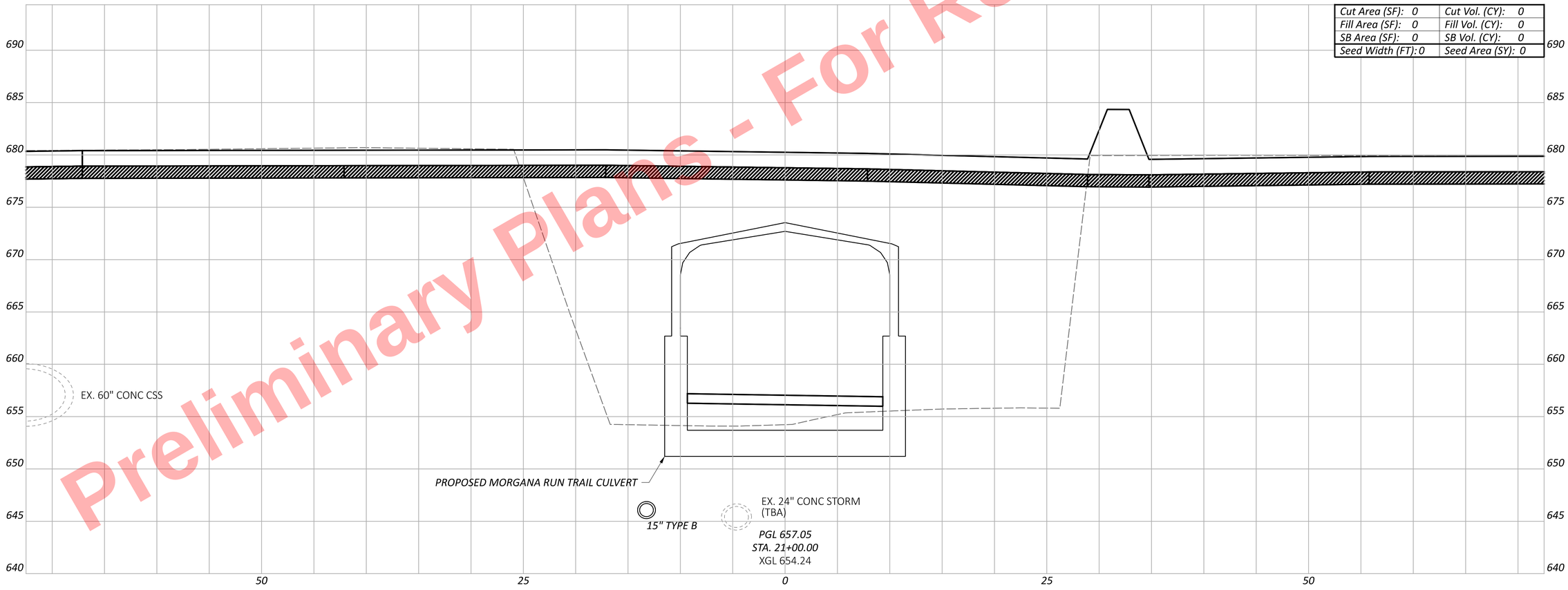
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
0	0	0	0

SHEET P.633 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 0	Seed Area (SY): 0



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
0	0	0	0

CUY-77-11.41 - PART 1

MODEL: CLP_6 - 21+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:54:23 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS702.dgn

CROSS SECTIONS - MUP EAST
STA. 21+00.00

DESIGN AGENCY
HNTB

DESIGNER
MTD

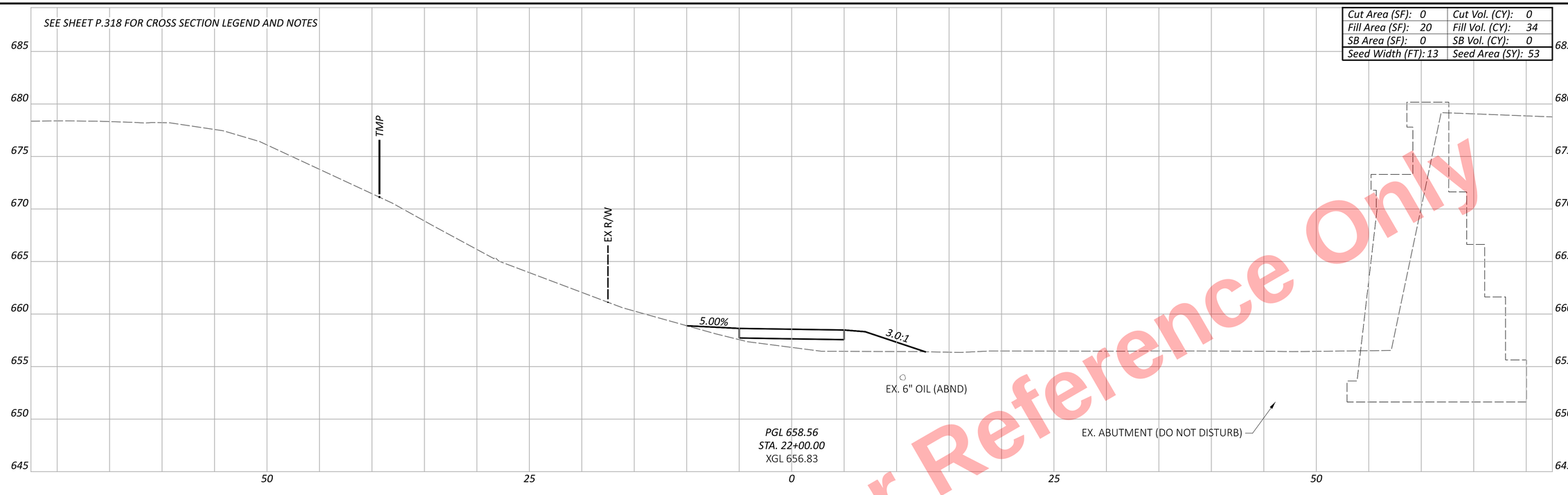
REVIEWER
KKP 05/02/22

PROJECT ID
105743

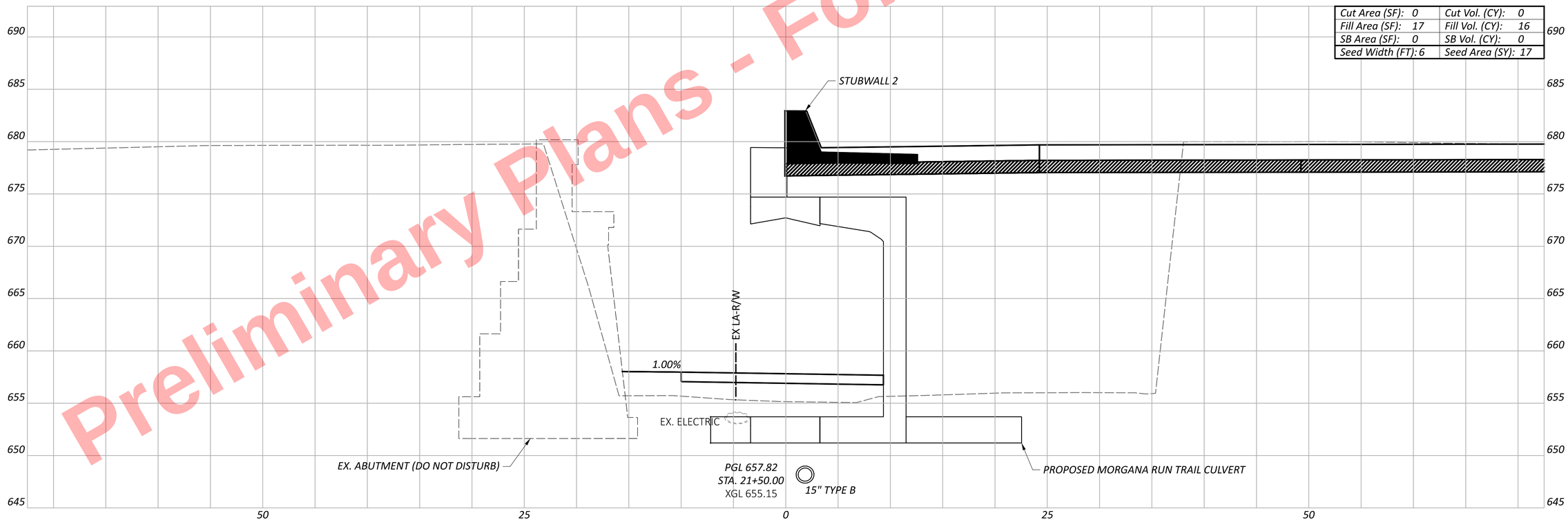
SHEET P.634 TOTAL P.1269

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 20	Fill Vol. (CY): 34
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 13	Seed Area (SY): 53



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 17	Fill Vol. (CY): 16
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 6	Seed Area (SY): 17



Preliminary Plans - For Reference Only

CROSS SECTIONS - MUP EAST
STA. 21+50.00 TO STA. 22+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
70	0	50	0

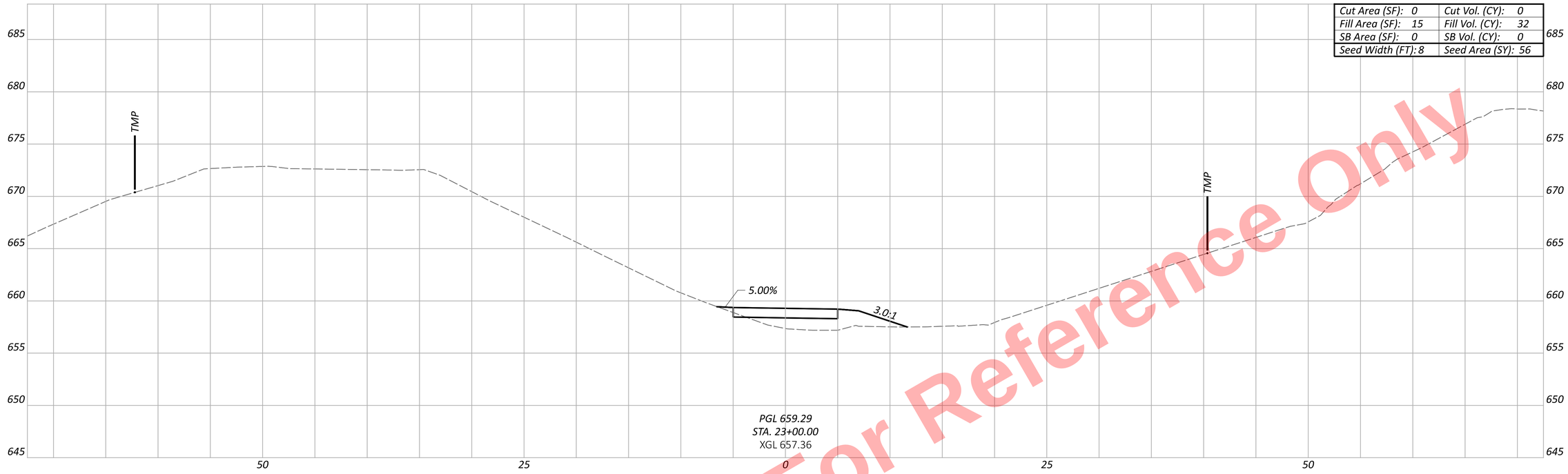
DESIGN AGENCY
HNTB

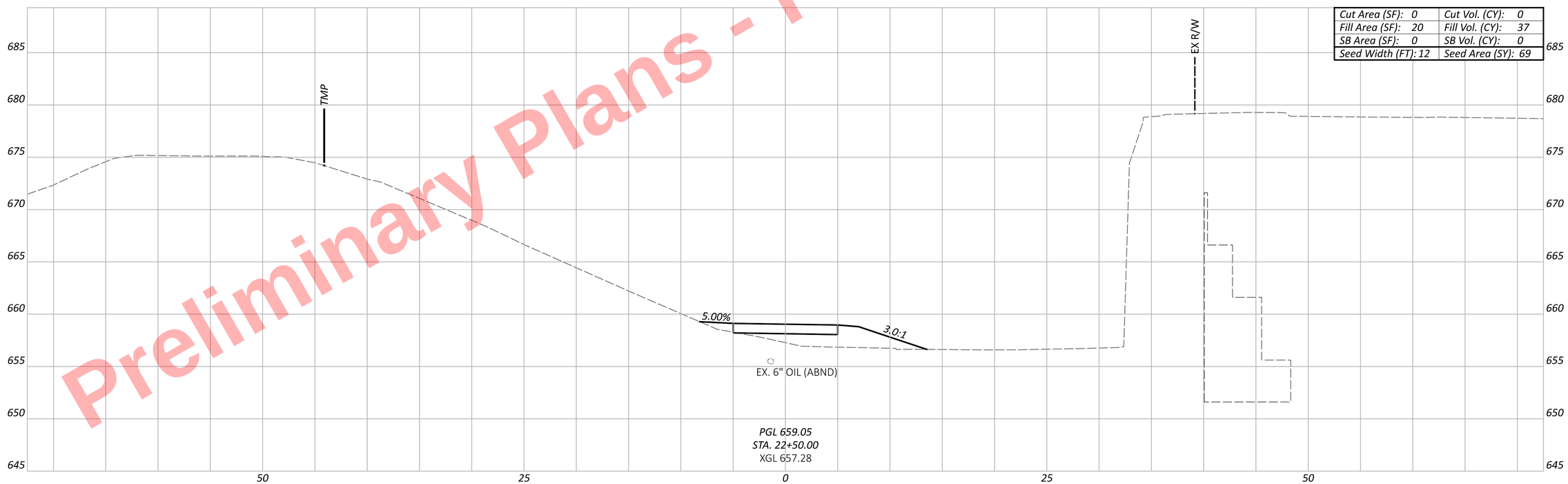
DESIGNER	MTD
REVIEWER	KKP 05/02/22
PROJECT ID	105743
SHEET	P.635
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_6 - 21+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:54:25 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS702.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES





Preliminary Plans - For Reference Only

CROSS SECTIONS - MUP EAST
STA. 22+50.00 TO STA. 23+00.00

DESIGN AGENCY
HNTB

DESIGNER
MTD

REVIEWER
KKP 05/02/22

PROJECT ID
105743

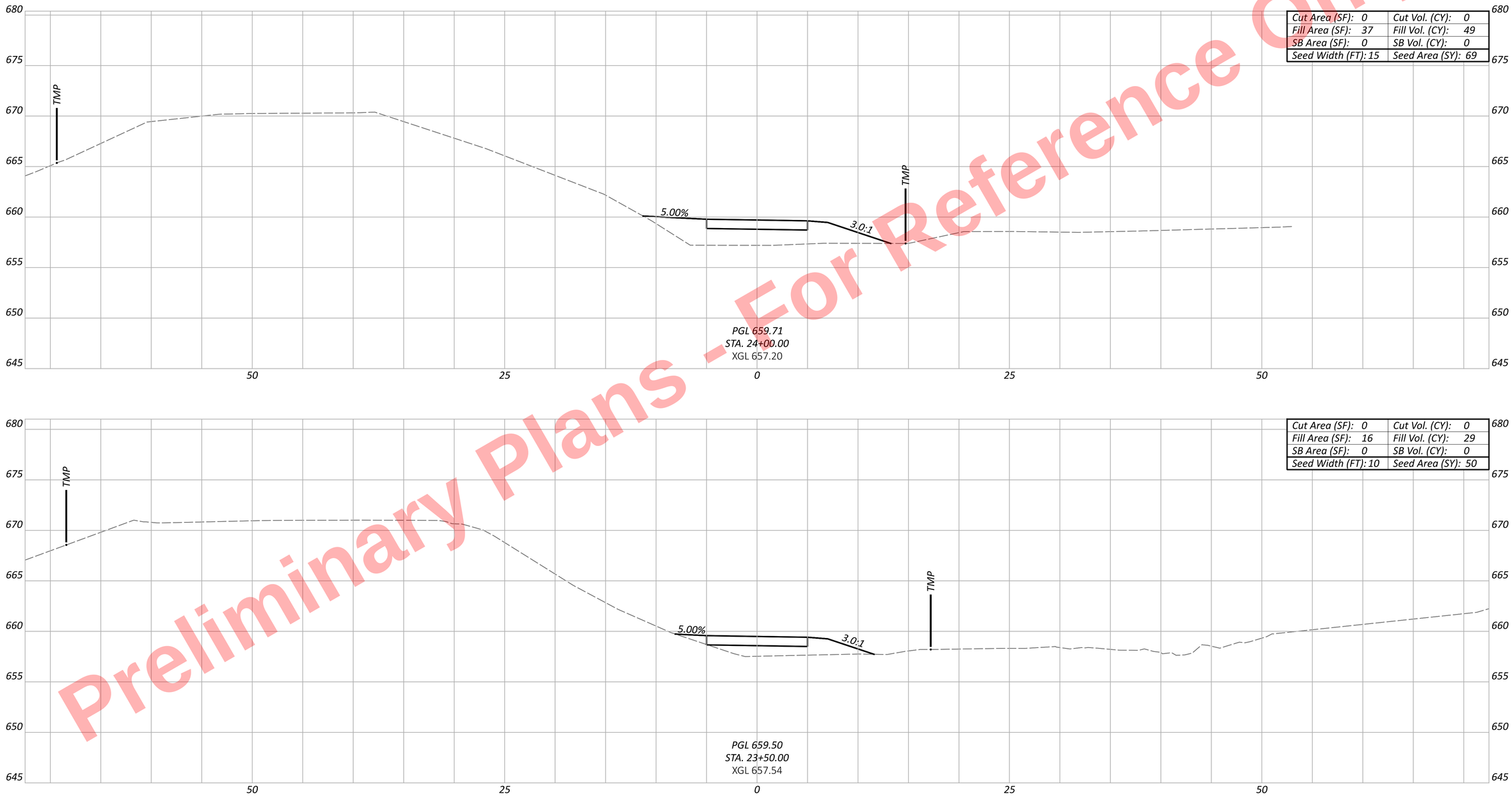
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
125	0	69	0

SHEET P.636 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_6 - 22+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:54:26 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\S - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS702.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Preliminary Plans - For Reference Only

CROSS SECTIONS - MUP EAST
STA. 23+50.00 TO STA. 24+00.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
119	0	78	0

DESIGN AGENCY
HNTB

DESIGNER
MTD

REVIEWER
KKP 05/02/22

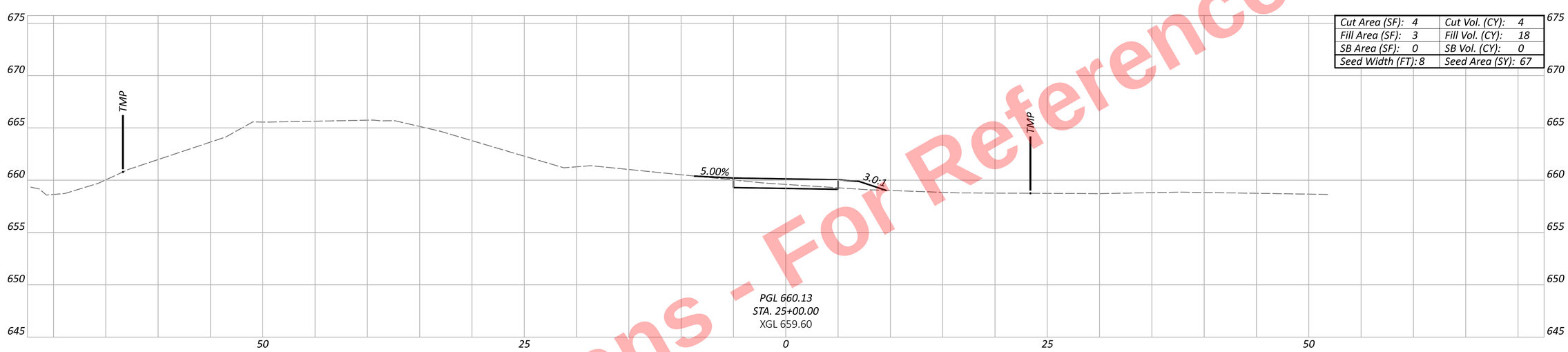
PROJECT ID
105743

SHEET P.637 TOTAL P.1269

CUY-77-11.41 - PART 1

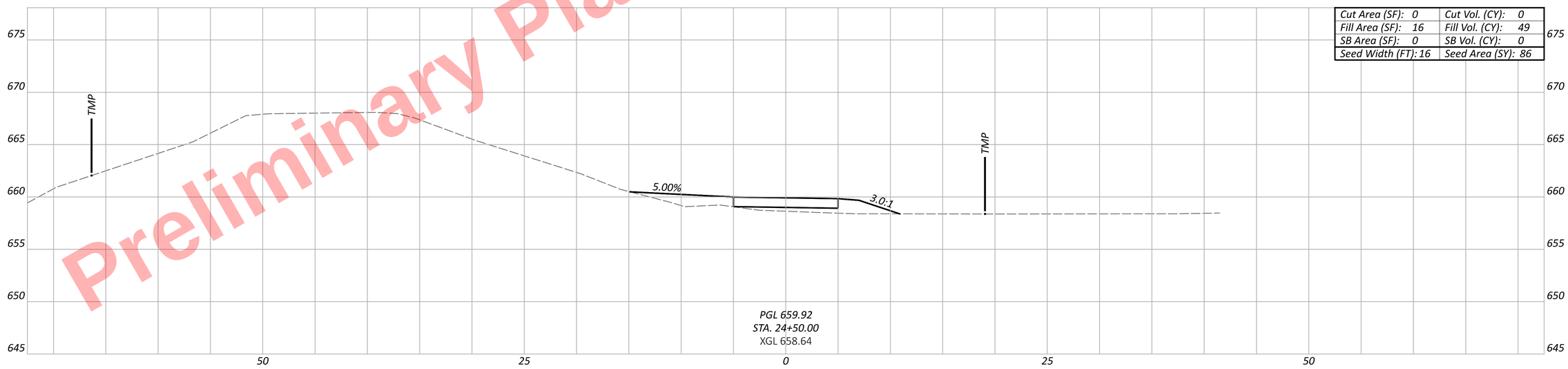
MODEL: CLP_6 - 23+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:54:28 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS702.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF): 4	Cut Vol. (CY): 4
Fill Area (SF): 3	Fill Vol. (CY): 18
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 8	Seed Area (SY): 67

PGL 660.13
STA. 25+00.00
XGL 659.60



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 16	Fill Vol. (CY): 49
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 16	Seed Area (SY): 86

PGL 659.92
STA. 24+50.00
XGL 658.64

Preliminary Plans - For Reference Only

CROSS SECTIONS - MUP EAST
STA. 24+50.00 TO STA. 25+00.00

DESIGN AGENCY
HNTB

DESIGNER
MTD

REVIEWER
KKP 05/02/22

PROJECT ID
105743

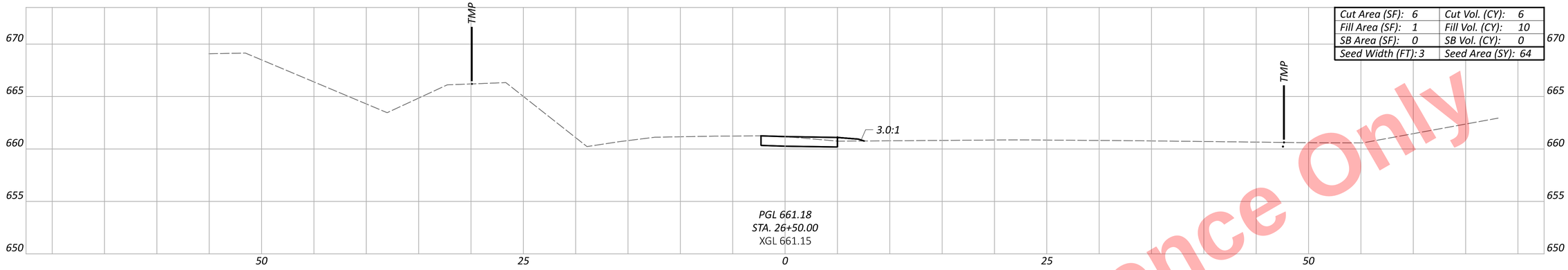
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
153	4	67	0

SHEET P.638 TOTAL P.1269

CUY-77-11.41 - PART 1

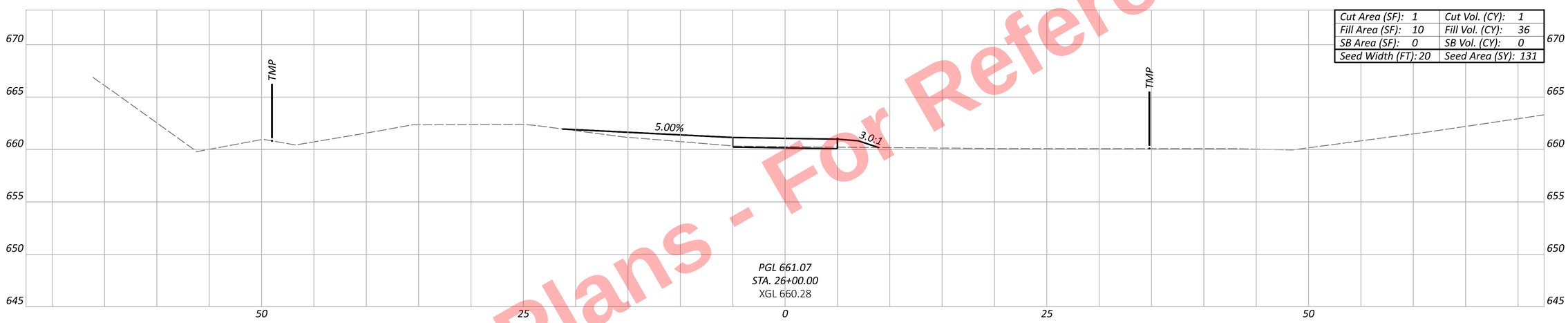
MODEL: CLP_6 - 24+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:54:29 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_XS702.dgn

SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES



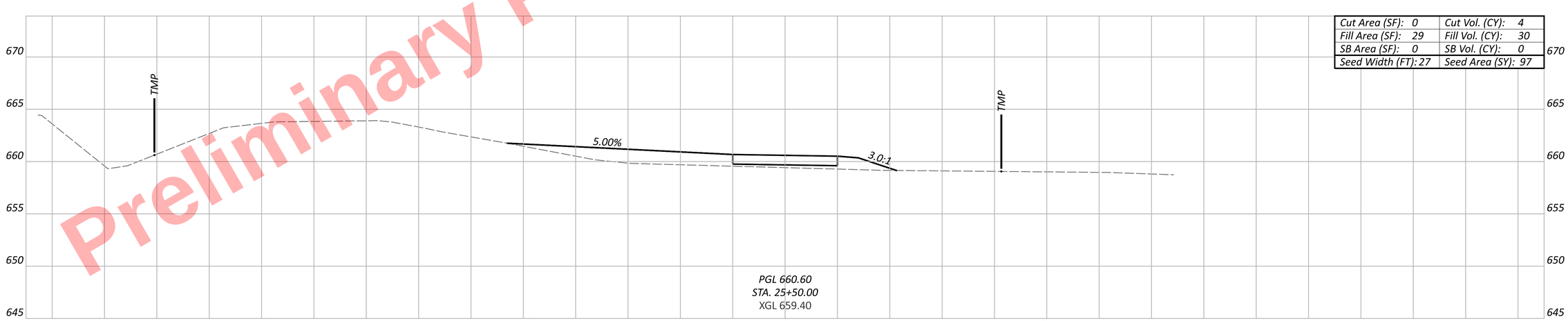
Cut Area (SF):	6	Cut Vol. (CY):	6
Fill Area (SF):	1	Fill Vol. (CY):	10
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	3	Seed Area (SY):	64

PGL 661.18
STA. 26+50.00
XGL 661.15



Cut Area (SF):	1	Cut Vol. (CY):	1
Fill Area (SF):	10	Fill Vol. (CY):	36
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	20	Seed Area (SY):	131

PGL 661.07
STA. 26+00.00
XGL 660.28



Cut Area (SF):	0	Cut Vol. (CY):	4
Fill Area (SF):	29	Fill Vol. (CY):	30
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	27	Seed Area (SY):	97

PGL 660.60
STA. 25+50.00
XGL 659.40

Preliminary Plans - Not For Reference Only

CROSS SECTIONS - MUP EAST
STA. 25+50.00 TO STA. 26+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
292	11	76	0

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.639 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_6 - 25+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:54:31 AM USER: kperkins
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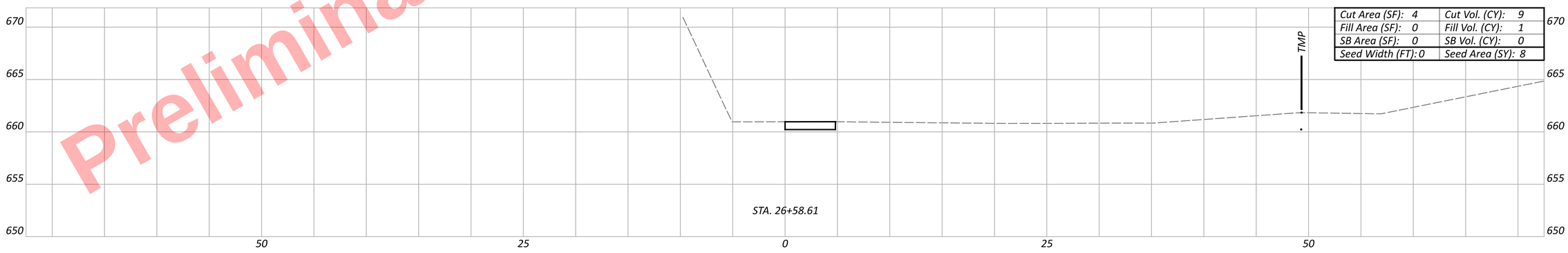
SEE SHEET P.318 FOR CROSS SECTION LEGEND AND NOTES

Preliminary Plans - For Reference Only



Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
8	9	1	0

CROSS SECTIONS - MUP EAST
STA. 27+00.00 TO END

DESIGN AGENCY
HNTB

DESIGNER
MTD

REVIEWER
KKP 05/02/22

PROJECT ID
105743

SHEET P.640 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_6 - 27+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:54:32 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_XS702.dgn

*SUPER ELEVATION TABLE (FUTURE CONDITION) - CURVE 1

REMARKS	TRANSITION RATE	EOS ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EOP ELVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	PGL ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EOS ELEVATION	CENTERLINE CONTROL STATION	EOS ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	PGL ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	EOP ELVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	EOS ELEVATION	TRANSITION RATE	REMARKS
		P.I. STATION 86+50.82													CENTERLINE CONTROL	1°30'00" LT														
		LEFT SIDE (SOUTHBOUND)														RIGHT SIDE (NORTHBOUND)														
		700.20	-0.40	-0.040	10	700.60	-0.65	-0.018	36	701.25	-0.40	-0.040	10	700.85	74+50.00	700.85	10	-0.040	-0.40	701.25	36	0.018	0.65	701.90	10	-0.040	-0.40	701.50		
		699.87	-0.40	-0.040	10	700.27	-0.68	-0.019	36	700.95	-0.40	-0.040	10	700.55	74+75.00	700.55	10	-0.040	-0.40	700.95	36	0.019	0.68	701.63	10	-0.040	-0.40	701.23		
		699.49	-0.40	-0.040	10	699.89	-0.76	-0.021	36	700.65	-0.40	-0.040	10	700.25	75+00.00	700.25	10	-0.040	-0.40	700.65	36	0.021	0.76	701.41	10	-0.040	-0.40	701.01		
		699.16	-0.40	-0.040	10	699.56	-0.79	-0.022	36	700.35	-0.40	-0.040	10	699.95	75+25.00	699.95	10	-0.040	-0.40	700.35	36	0.022	0.79	701.14	10	-0.040	-0.40	700.74		
P.C.		699.14	-0.40	-0.040	10	699.54	-0.79	-0.022	36	700.33	-0.40	-0.040	10	699.93	75+26.62	699.93	10	-0.040	-0.40	700.33	36	0.022	0.79	701.12	10	-0.040	-0.40	700.72		P.C.
		698.84	-0.40	-0.040	10	699.24	-0.86	-0.024	36	700.10	-0.40	-0.040	10	699.70	75+50.00	699.70	10	-0.040	-0.40	700.10	36	0.024	0.86	700.96	10	-0.040	-0.40	700.56		
		698.55	-0.40	-0.040	10	698.95	-0.90	-0.025	36	699.85	-0.40	-0.040	10	699.45	75+75.00	699.45	10	-0.040	-0.40	699.85	36	0.025	0.90	700.75	10	-0.040	-0.40	700.35		
		698.23	-0.40	-0.040	10	698.63	-0.97	-0.027	36	699.60	-0.40	-0.040	10	699.20	76+00.00	699.20	10	-0.040	-0.40	699.60	36	0.027	0.97	700.57	10	-0.040	-0.40	700.17		
		697.95	-0.40	-0.040	10	698.35	-1.01	-0.028	36	699.36	-0.40	-0.040	10	698.96	76+25.00	698.96	10	-0.040	-0.40	699.36	36	0.028	1.01	700.37	10	-0.040	-0.40	699.97		
		697.63	-0.40	-0.040	10	698.03	-1.08	-0.030	36	699.11	-0.40	-0.040	10	698.71	76+50.00	698.71	10	-0.040	-0.40	699.11	36	0.030	1.08	700.19	10	-0.040	-0.40	699.79		
		697.34	-0.40	-0.040	10	697.74	-1.12	-0.031	36	698.86	-0.22		10	698.64	76+75.00	698.46	10	-0.040	-0.40	698.86	36	0.031	1.12	699.98	10		-0.22	699.76		
		697.06	-0.40	-0.040	10	697.46	-1.15	-0.032	36	698.61	-0.22		10	698.39	77+00.00	698.21	10	-0.040	-0.40	698.61	36	0.032	1.15	699.76	10		-0.22	699.54		
		696.74	-0.40	-0.040	10	697.14	-1.22	-0.034	36	698.36	-0.21		10	698.15	77+25.00	697.96	10	-0.040	-0.40	698.36	36	0.034	1.22	699.58	10		-0.21	699.37		
		696.45	-0.40	-0.040	10	696.85	-1.26	-0.035	36	698.11	-0.21		10	697.90	77+50.00	697.71	10	-0.040	-0.40	698.11	36	0.035	1.26	699.37	10		-0.21	699.16		
		696.14	-0.40	-0.040	10	696.54	-1.33	-0.037	36	697.87	-0.21		10	697.66	77+75.00	697.47	10	-0.040	-0.40	697.87	36	0.037	1.33	699.20	10		-0.21	698.99		
		695.85	-0.40	-0.040	10	696.25	-1.37	-0.038	36	697.62	-0.20		10	697.42	78+00.00	697.22	10	-0.040	-0.40	697.62	36	0.038	1.37	698.99	10		-0.20	698.79		
		695.53	-0.40	-0.040	10	695.93	-1.44	-0.040	36	697.37	-0.20		10	697.17	78+25.00	696.97	10	-0.040	-0.40	697.37	36	0.040	1.44	698.81	10		-0.20	698.61		
F.S.		695.23	-0.41	-0.041	10	695.64	-1.48	-0.041	36	697.12	-0.20		10	696.92	78+50.00	696.71	10	-0.041	-0.41	697.12	36	0.041	1.48	698.60	10		-0.20	698.40		F.S.
		694.98	-0.41	-0.041	10	695.39	-1.48	-0.041	36	696.87	-0.20		10	696.67	78+75.00	696.46	10	-0.041	-0.41	696.87	36	0.041	1.48	698.35	10		-0.20	698.15		
		694.73	-0.41	-0.041	10	695.14	-1.48	-0.041	36	696.62	-0.20		10	696.42	79+00.00	696.21	10	-0.041	-0.41	696.62	36	0.041	1.48	698.10	10		-0.20	697.90		

HIGH SIDE SHOULDER WITH ROUNDING.

HIGH SIDE SHOULDER WITH ROUNDING.

BOTTOM OF SUBGRADE SUPER ELEVATION TABLE - CURVE 1

REMARKS	TRANSITION RATE	EOS ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EOP ELVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	PGL ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EOS ELEVATION	CENTERLINE CONTROL STATION	EOS ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	PGL ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	EOP ELVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	EOS ELEVATION	TRANSITION RATE	REMARKS
		P.I. STATION 86+50.82													CENTERLINE CONTROL	1°30'00" LT														
		LEFT SIDE (SOUTHBOUND)														RIGHT SIDE (NORTHBOUND)														
		698.72	-0.40	-0.040	10	699.12	-0.65	-0.018	36	699.77	-0.40	-0.040	10	699.37	74+50.00	699.37	10	-0.040	-0.40	699.77	36	0.018	0.65	700.42	10	-0.040	-0.40	700.02		
		698.39	-0.40	-0.040	10	698.79	-0.68	-0.019	36	699.47	-0.40	-0.040	10	699.07	74+75.00	699.07	10	-0.040	-0.40	699.47	36	0.019	0.68	700.15	10	-0.040	-0.40	699.75		
		698.01	-0.40	-0.040	10	698.41	-0.76	-0.021	36	699.17	-0.40	-0.040	10	698.77	75+00.00	698.77	10	-0.040	-0.40	699.17	36	0.021	0.76	699.93	10	-0.040	-0.40	699.53		
		697.68	-0.40	-0.040	10	698.08	-0.79	-0.022	36	698.87	-0.40	-0.040	10	698.47	75+25.00	698.47	10	-0.040	-0.40	698.87	36	0.022	0.79	699.66	10	-0.040	-0.40	699.26		
P.C.		697.66	-0.40	-0.040	10	698.06	-0.79	-0.022	36	698.85	-0.40	-0.040	10	698.45	75+26.62	698.45	10	-0.040	-0.40	698.85	36	0.022	0.79	699.64	10	-0.040	-0.40	699.24		P.C.
		697.36	-0.40	-0.040	10	697.76	-0.86	-0.024	36	698.62	-0.40	-0.040	10	698.22	75+50.00	698.22	10	-0.040	-0.40	698.62	36	0.024	0.86	699.48	10	-0.040	-0.40	699.08		
		697.07	-0.40	-0.040	10	697.47	-0.90	-0.025	36	698.37	-0.40	-0.040	10	697.97	75+75.00	697.97	10	-0.040	-0.40	698.37	36	0.025	0.90	699.27	10	-0.040	-0.40	698.87		
		696.75	-0.40	-0.040	10	697.15	-0.97	-0.027	36	698.12	-0.40	-0.040	10	697.72	76+00.00	697.72	10	-0.040	-0.40	698.12	36	0.027	0.97	699.09	10	-0.040	-0.40	698.69		
		696.47	-0.40	-0.040	10	696.87	-1.01	-0.028	36	697.88	-0.40	-0.040	10	697.48	76+25.00	697.48	10	-0.040	-0.40	697.88	36	0.028	1.01	698.89	10	-0.040	-0.40	698.49		
		696.15	-0.40	-0.040	10	696.55	-1.08	-0.030	36	697.63	-0.40	-0.040	10	697.23	76+50.00	697.23	10	-0.040	-0.40	697.63	36	0.030	1.08	698.71	10	-0.040	-0.40	698.31		
		695.86	-0.40	-0.040	10	696.26	-1.12	-0.031	36	697.38	-0.22		10	697.16	76+75.00	696.98	10	-0.040	-0.40	697.38	36	0.031	1.12	698.50	10		-0.22	698.28		
		695.58	-0.40	-0.040	10	695.98	-1.15	-0.032	36	697.13	-0.22		10	696.91	77+00.00	696.73	10	-0.040	-0.40	697.13	36	0.032	1.15	698.28	10		-0.22	698.06		
		695.26	-0.40	-0.040	10	695.66	-1.22	-0.034	36	696.88	-0.21		10	696.67	77+25.00	696.48	10	-0.040	-0.40	696.88	36	0.034	1.22	698.10	10		-0.21	697.89		
		694.97	-0.40	-0.040	10	695.37	-1.26	-0.035	36	696.63	-0.21		10	696.42	77+50.00	696.23	10	-0.040	-0.40	696.63	36	0.035	1.26	697.89	10		-0.21	697.68		
		694.66	-0.40	-0.040	10	695.06	-1.33	-0.037	36	696.39	-0.21		10	696.18	77+75.00	695.99	10	-0.040	-0.40	696.39	36	0.037	1.33	697.72	10		-0.21	697.51		
		694.37	-0.40	-0.040	10	694.77	-1.37	-0.038	36	696.14	-0.20		10	695.94	78+00.00	695.74	10	-0.040	-0.40	696.14	36	0.038	1.37	697.51	10		-0.20	697.31		
		694.05	-0.40	-0.040	10	694.45	-1.44	-0.040	36	695.89	-0.20		10	695.69	78+25.00	695.49	10	-0.040	-0.40	695.89	36	0.040	1.44	697.33	10		-0.20	697.13		
F.S.		693.75	-0.41	-0.041	10	694.16	-1.48	-0.041	36	695.64	-0.20		10	695.44	78+50.00	695.23	10	-0.041	-0.41	695.64	36	0.041	1.48	697.12	10		-0.20	696.92		F.S.
		693.50	-0.41	-0.041	10	693.91	-1.48	-0.041	36	695.39	-0.20		10	695.19	78+75.00	694.98	10	-0.041	-0.41	695.39	36	0.041	1.48	696.87	10		-0.20	696.67		
		693.25	-0.41	-0.041	10	693.66	-1.48	-0.041	36	695.14	-0.20		10	694.94	79+00.00	694.73	10	-0.041	-0.41	695.14	36	0.041	1.48	696.62	10		-0.20	696.42		

HIGH SIDE SHOULDER WITH ROUNDING. SEE TYPICALS FOR DETAILS ON CROSS-SLOPE

HIGH SIDE SHOULDER WITH ROUNDING. SEE TYPICALS FOR DETAILS ON CROSS-SLOPE

*SUPER ELEVATION TABLE (FUTURE CONDITION) PROVIDED FOR INFORMATION ONLY. BOTTOM OF SUBGRADE ELEVATIONS ARE CALCULATED AT APPROXIMATELY 1.48' BELOW FUTURE CONDITION ELEVATIONS.

N.C. = NORMAL CROWN R.C. = REVERSE CROWN P.C. = POINT OF CURVATURE F.S. = FULL SUPER H.S. = HIGH SIDE

Preliminary Plans - For Reference Only

BOTTOM SUBGRADE SUPERELEVATION TABLE I.R. 77 CURVE 1

DESIGN AGENCY HNTB

DESIGNER MTD

REVIEWER KKP 05/02/22

PROJECT ID 105743

SHEET P.641 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet-1a PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:56:44 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GE001.dgn

SUPERELEVATION TABLE - CURVE 1

REMARKS	P.I. STATION 86+50.82 — LEFT SIDE (SOUTHBOUND)																			CENTERLINE CONTROL	1°30'00" LT — RIGHT SIDE (NORTHBOUND)																								REMARKS
	TRANSITION RATE	EOS ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EOP ELVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	CROWN ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	PGL ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	INTERIM EOP ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EOS ELEVATION	STATION	EOS ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	INTERIM EOP ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	PGL ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	CROWN ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	EOP ELVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	EOS ELEVATION	TRANSITION RATE	
EX.		700.27	-0.40	-0.040	10	700.67	-1.04	-0.029	36	-	-	-	-	701.71	0.14	0.020	6.97	701.85	0.01		3.50	701.86	74+50.00	701.90	3.61	-0.018	-0.06	701.96	6.43	-0.015	-0.10	702.06	-	-	-	-	36	0.015	0.54	702.60	10	-0.040	-0.40	702.20		EX.
		699.90	-0.40	-0.040	10	700.30	-1.08	-0.030	36	-	-	-	-	701.38	0.20	0.030	6.58	701.58	0.04		3.50	701.62	74+75.00	701.42	4.01	-0.040	-0.16	701.58	6.07	-0.017	-0.10	701.68	-	-	-	-	36	0.017	0.61	702.29	10	-0.040	-0.40	701.89		
		699.54	-0.40	-0.040	10	699.94	-1.12	-0.031	36	-	-	-	-	701.06	0.19	0.031	6.20	701.25	0.02		3.89	701.27	75+00.00	701.03	4.37	-0.040	-0.17	701.20	5.72	-0.018	-0.10	701.30	-	-	-	-	36	0.018	0.65	701.95	10	-0.040	-0.40	701.55		
		699.22	-0.40	-0.040	10	699.62	-1.12	-0.031	36	-	-	-	-	700.74	0.18	0.031	5.81	700.92	0.01		4.27	700.93	75+25.00	700.61	4.72	-0.040	-0.19	700.80	5.36	-0.020	-0.11	700.91	-	-	-	-	36	0.020	0.72	701.63	10	-0.040	-0.40	701.23		
P.C.		699.19	-0.40	-0.040	10	699.59	-1.12	-0.031	36	-	-	-	-	700.71	0.18	0.031	5.78	700.89	0.01		4.30	700.90	75+26.62	700.59	4.75	-0.040	-0.19	700.78	5.34	-0.020	-0.11	700.89	-	-	-	-	36	0.020	0.72	701.61	10	-0.040	-0.40	701.21		P.C.
		698.86	-0.40	-0.040	10	699.26	-1.15	-0.032	36	-	-	-	-	700.41	0.17	0.032	5.42	700.58	-0.01		4.66	700.57	75+50.00	700.23	5.08	-0.040	-0.20	700.43	5.00	-0.022	-0.11	700.54	-	-	-	-	36	0.022	0.79	701.33	10	-0.040	-0.40	700.93		
		698.55	-0.40	-0.040	10	698.95	-1.19	-0.033	36	-	-	-	-	700.14	0.17	0.033	5.03	700.31	-0.02		5.05	700.29	75+75.00	699.85	5.44	-0.040	-0.22	700.07	4.64	-0.023	-0.11	700.18	-	-	-	-	36	0.023	0.83	701.01	10	-0.040	-0.40	700.61		
		698.24	-0.40	-0.040	10	698.64	-1.22	-0.034	36	-	-	-	-	699.86	0.16	0.034	4.65	700.02	-0.03		5.44	699.99	76+00.00	699.50	5.80	-0.040	-0.23	699.73	4.29	-0.025	-0.11	699.84	-	-	-	-	36	0.025	0.90	700.74	10	-0.040	-0.40	700.34		
		697.97	-0.40	-0.040	10	698.37	-1.22	-0.034	36	-	-	-	-	699.59	0.14	0.034	4.26	699.73	-0.05		5.82	699.68	76+25.00	699.17	6.15	-0.040	-0.25	699.42	3.93	-0.026	-0.10	699.52	-	-	-	-	36	0.026	0.94	700.46	10	-0.040	-0.40	700.06		
		697.65	-0.40	-0.040	10	698.05	-1.26	-0.035	36	-	-	-	-	699.31	0.14	0.035	3.87	699.45	-0.06		6.21	699.39	76+50.00	698.86	6.51	-0.040	-0.26	699.12	3.57	-0.028	-0.10	699.22	-	-	-	-	36	0.028	1.01	700.23	10	-0.040	-0.40	699.83		
		697.34	-0.40	-0.040	10	697.74	-1.30	-0.036	36	-	-	-	-	699.04	0.13	0.036	3.49	699.17	-0.07		6.60	699.10	76+75.00	698.56	6.87	-0.040	-0.27	698.83	3.22	-0.030	-0.10	698.93	-	-	-	-	36	0.030	1.08	700.01	10		-0.22	699.79		
		697.03	-0.40	-0.040	10	697.43	-1.33	-0.037	36	-	-	-	-	698.76	0.11	0.037	3.10	698.87	-0.09		6.98	698.78	77+00.00	698.28	7.22	-0.040	-0.29	698.57	2.86	-0.031	-0.09	698.66	-	-	-	-	36	0.031	1.12	699.78	10		-0.22	699.56		
		696.76	-0.40	-0.040	10	697.16	-1.33	-0.037	36	-	-	-	-	698.49	0.10	0.037	2.71	698.59	-0.10		7.37	698.49	77+25.00	698.03	7.58	-0.040	-0.30	698.33	2.50	-0.033	-0.08	698.41	-	-	-	-	36	0.033	1.19	699.60	10		-0.22	699.38		
		696.45	-0.40	-0.040	10	696.85	-1.37	-0.038	36	-	-	-	-	698.22	0.09	0.038	2.32	698.31	-0.12		7.76	698.19	77+50.00	697.76	7.94	-0.040	-0.32	698.08	2.14	-0.035	-0.07	698.15	-	-	-	-	36	0.035	1.26	699.41	10		-0.21	699.20		
		696.14	-0.40	-0.040	10	696.54	-1.40	-0.039	36	-	-	-	-	697.94	0.08	0.039	1.94	698.02	-0.13		8.14	697.89	77+75.00	697.50	8.29	-0.040	-0.33	697.83	1.79	-0.036	-0.06	697.89	-	-	-	-	36	0.036	1.30	699.19	10		-0.21	698.98		
		695.83	-0.40	-0.040	10	696.23	-1.44	-0.040	36	-	-	-	-	697.67	0.06	0.040	1.55	697.73	-0.14		8.53	697.59	78+00.00	697.23	8.65	-0.040	-0.35	697.58	1.43	-0.038	-0.05	697.63	-	-	-	-	36	0.038	1.37	699.00	10		-0.20	698.80		
		695.55	-0.40	-0.040	10	695.95	-1.44	-0.040	36	-	-	-	-	697.39	0.05	0.040	1.16	697.44	-0.16		8.92	697.28	78+25.00	696.98	9.01	-0.040	-0.36	697.34	1.07	-0.039	-0.04	697.38	-	-	-	-	36	0.039	1.40	698.78	10		-0.20	698.58		
F.S.		695.24	-0.40	-0.040	10	695.64	-1.48	-0.041	36	-	-	-	-	697.12	0.03	0.041	0.77	697.15	-0.17		9.31	696.98	78+50.00	696.72	9.37	-0.040	-0.37	697.09	0.71	-0.041	-0.03	697.12	-	-	-	-	36	0.041	1.48	698.60	10		-0.20	698.40		F.S.
		694.99	-0.40	-0.040	10	695.39	-1.48	-0.041	36	-	-	-	-	696.87	0.02	0.041	0.39	696.89	-0.19		9.69	696.70	78+75.00	696.47	9.72	-0.040	-0.39	696.86	0.36	-0.041	-0.01	696.87	-	-	-	-	36	0.041	1.48	698.35	10		-0.20	698.15		
END INT. EOP		694.74	-0.40	-0.040	10	695.14	-1.48	-0.041	36	-	-	-	-	696.62	0.00	0.041	0	696.62	-0.20		10.08	696.42	79+00.00	696.22	10.08	-0.040	-0.40	696.62	0	-0.041	0.00	696.62	-	-	-	-	36	0.041	1.48	698.10	10		-0.20	697.90		END INT. EOP
		694.49	-0.40	-0.040	10	694.89	-1.48	-0.041	36	-	-	-	-	696.37	-	-	-	-	-0.20		10.08	696.17	79+25.00	695.97	10.08	-0.040	-0.40	-	-	-	-	696.37	-	-	-	-	36	0.041	1.48	697.85	10		-0.20	697.65		
		694.25	-0.40	-0.040	10	694.65	-1.48	-0.041	36	-	-	-	-	696.13	-	-	-	-	-0.20		10.08	695.93	79+50.00	695.73	10.08	-0.040	-0.40	-	-	-	-	696.13	-	-	-	-	36	0.041	1.48	697.61	10		-0.20	697.41		
		694.00	-0.40	-0.040	10	694.40	-1.48	-0.041	36	-	-	-	-	695.88	-	-	-	-	-0.20		10.08	695.68	79+75.00	695.48	10.08	-0.040	-0.40	-	-	-	-	695.88	-	-	-	-	36	0.041	1.48	697.36	10		-0.20	697.16		
		693.76	-0.40	-0.040	10	694.16	-1.48	-0.041	36	-	-	-	-	695.64	-	-	-	-	-0.20		10.08	695.44	80+00.00	695.24	10.08	-0.040	-0.40	-	-	-	-	695.64	-	-	-	-	36	0.041	1.48	697.12	10		-0.20	696.92		
		693.54	-0.40	-0.040	10	693.94	-1.48	-0.041	36	-	-	-	-	695.42	-	-	-	-	-0.20		10.08	695.22	80+25.00	695.02	10.08	-0.040	-0.40	-	-	-	-	695.42	-	-	-	-	36	0.041	1.48	696.90	10		-0.20	696.70		
		693.34	-0.40	-0.040	10	693.74	-1.48	-0.041	36	-	-	-	-	695.22	-	-	-	-	-0.20		10.08	695.02	80+50.00	694.82	10.08	-0.040	-0.40	-	-	-	-	695.22	-	-	-	-	36	0.041	1.48	696.70						
		693.16	-0.40	-0.040	10	693.56	-1.48	-0.041	36	-	-	-	-	695.04	-	-	-	-	-0.20		10.08	694.84	80+75.00	694.64	10.08	-0.040	-0.40	-	-	-	-	695.04	-	-	-	-	36	0.041	1.48	696.52						
		693.01	-0.40	-0.040	10	693.41	-1.48	-0.041	36	-	-	-	-	694.89	-	-	-	-	-0.20		10.08	694.69	81+00.00	694.49	10.08	-0.040	-0.40	-	-	-	-	694.89	-	-	-	-	36	0.041	1.48	696.37						
		692.88	-0.40	-0.040	10	693.28	-1.48	-0.041	36	-	-	-	-	694.76	-	-	-	-	-0.20		10.08	694.56	81+25.00	694.36	10.08	-0.040	-0.40	-	-	-	-	694.76	-	-	-	-	36	0.041	1.48	696.24						
		692.78	-0.40	-0.040	10	693.18	-1.48	-0.041	36	-	-	-	-	694.66	-	-	-	-	-0.20		10.08	694.46	81+50.00	694.26	10.08	-0.040	-0.40	-	-	-	-	694.66	-	-	-	-	36	0.041	1.48	696.14						
		692.69	-0.40	-0.040	10	693.09	-1.48	-0.041	36	-	-	-	-	694.57	-	-	-	-	-0.20		10.08	694.37	81+75.00	694.17	10.08	-0.040	-0.40	-	-	-	-	694.57	-	-	-	-	36	0.041	1.48	696.05						
		692.63	-0.40	-0.040	10	693.03	-1.48	-0.041	36	-	-	-	-	694.51	-	-	-	-	-0.20		10.08	694.31	82+00.00	694.11	10.08	-0.040	-0.40	-	-	-	-	694.51	-	-	-	-	36	0.041	1.48	695.99						
		692.59	-0.40	-0.040	10	692.99	-1.48	-0.041	36	-	-	-	-	694.47	-	-	-	-	-0.20		10.08	694.27	82+25.00	694.07	10.08	-0.040	-0.40	-	-	-	-	694.47	-	-	-	-	36	0.041	1.48	695.95						
		692.57	-0.40	-0.040	10	692.97	-1.48	-0.041	36	-	-	-	-	694.45	-	-	-	-	-0.20		10.08	694.25	82+50.00	694.05	10.08	-0.040	-0.40	-	-	-	-	694.45	-	-	-	-	36	0.041	1.48	695.93						
		692.58	-0.40	-0.040	10	692.98	-1.48	-0.041	36	-	-	-	-	694.46	-	-	-	-	-0.20		10.08	694.26	82+75.00	694.06	10.08	-0.040	-0.40	-	-	-	-	694.46	-	-	-	-	36	0.041	1.48	695.94						
		692.60	-0.40	-0.040	10	693.00	-1.48	-0.041	36	-	-	-	-	694.48	-	-	-	-	-0.20		10.08	694.28	83+00.00	694.08	10.08	-0.040	-0.40	-	-	-	-	694.48	-	-	-	-	36	0.041	1.48	695.96						
		692.65	-0.40	-0.040	10	693.05	-1.48	-0.041	36	-	-	-	-	694.53	-	-	-	-	-0.20		10.08	694.33	83+25.00	694.13	10.08	-0.040	-0.40	-	-	-	-	694.53	-	-	-	-	36	0.041	1.48	696.01						
		692.73	-0.40	-0.040	10	693.13	-1.48	-0.041	36	-	-	-	-	694.61	-	-	-	-	-0.20		10.08	694.41	83+50.00	694.21	10.08	-0.040	-0.40	-	-	-	-	694.61	-	-	-	-	36	0.041	1.48	696.09						
		692.82	-0.40	-0.040	10	693.22	-1.48	-0.041	36	-	-	-	-	694.70	-	-	-	-	-0.20		10.08	694.50	83+75.00	694.30	10.08	-0.040	-0.40	-	-	-	-	694.70	-	-	-	-	36	0.041	1.48	696.18						
						693.34	-1.48	-0.041	36	-	-	-	-	694.82	-	-	-	-	-0.20		10.08	694.62	84+00.00	694.42	10.08	-0.040	-0.40	-	-	-	-	694.82	-	-	-	-	36	0.041	1.48	696.30						
						693.48	-1.48	-0.041	36	-	-	-	-	694.96	-	-	-	-	-0.20		10.08	694.76	84+25.00	694.56	10.08	-0.040	-0.40	-	-	-	-	694.96	-	-	-	-	36	0.041	1.48	696.44						
						693.64	-1.48	-0.041	36	-	-	-	-	695.12	-	-	-	-	-0.20		10.08	694.92	84+50.00	694.72	10.08	-0.040	-0.40	-	-	-	-	695.12	-	-	-	-	36	0.041	1.48	696.60	AREA OF RAMP TERMINAL SEE GORE DETAILS FOR GORE, RAMP, EOP, AND SHOULDER ELEVATION					
						693.83	-1.48	-0.041	36	-	-	-	-	695.31	-	-	-	-	-0.20		10.08	695.11	84+75.00	694.91	10.08	-0.040	-0.40	-	-	-	-	695.31	-	-	-	-	36	0.041	1.48	696.79						
						694.03	-1.48	-0.041	36	-	-	-	-	695.51	-	-	-	-	-0.20		10.08	695.31	85+00.00	695.11	10.08	-0.040	-0.40	-	-	-	-	695.51	-	-	-	-	36	0.041	1.48	696.99						
						694.23	-1.48	-0.041	36	-	-	-	-	695.71	-	-	-	-	-0.20		10.08	695.51	85+25.00	695.31	10.08	-0.040	-0.40	-	-	-	-	695.71	-	-	-	-	36	0.041	1.48	697.19						
						694.43	-1.48	-0.041	36	-	-	-	-	695.91	-	-	-	-	-0.20		10.08	695.71	85+50.00	695.51	10.08	-0.040	-0.40	-	-	-	-	695.91	-	-	-	-	36	0.041	1.48	697.39						
						694.63	-1.48	-0.041	36	-	-	-	-	696.11	-	-	-	-	-0.20		10.08	695.91	85+75.00	695.71	10.08	-0.040	-0.40	-	-	-	-	696.11	-	-	-	-	36	0.041	1.48	697.59						
						694.83	-1.48	-0.041	36	-	-	-	-	696.31	-	-	-	-	-0.20		10.08	696.11	86+00.00	695.91	10.08	-0.040	-0.40	-	-	-	-	696.31	-	-	-	-	36	0.041	1.48	697.79						
						695.02	-1.48	-0.041	36	-	-	-	-	696.50	-	-	-	-	-0.20		10.08	696.30	86+25.00	696.10	10.08	-0.040	-0.40	-	-	-	-	696.50	-	-	-	-	36	0.041	1.48	697.98						
						695.20	-1.48	-0.041	36	-	-	-	-	696.68	-	-	-	-	-0.20		10.08	696.48	86+50.00	696.28	10.08	-0.040	-0.40	-	-	-	-	696.68	-	-	-	-	36	0.041	1.48	698.16						
						695.37	-1.48	-0.041	36	-	-	-	-	696.85	-	-	-	-	-0.20		10.08	696.65	86+75.00	696.45	10.08	-0.040	-0.40	-	-	-	-	696.85	-	-	-	-	36	0.041	1.48	698.33						
						695.53	-1.48	-0.041	36	-	-	-	-	697.01	-	-	-	-	-0.20		10.08	696.81	87+00.00	696.61	10.08	-0.040	-0.40	-	-	-	-	697.01	-	-	-	-	36	0.041	1.48	698.49						
						695.68	-1.48	-0.041	36	-	-	-	-	697.16	-	-	-	-	-0.20		10.08	696.96	87+25.00	696.76	10.08	-0.040	-0.40	-	-	-	-	697.16	-	-	-	-	36	0.041	1.48	698.64						
						695.82	-1.48	-0.041	36	-	-	-	-	697.30	-	-	-	-	-0.20		10.08	697.10	87+50.00	696.90	10.08	-0.040	-0.40	-	-	-	-	697.30	-	-	-	-	36	0.041	1.48	698.78						
						695.94	-1.48	-0.041	36	-	-	-	-	697.42	-	-	-	-	-0.20		10.08	697.22	87+75.00	697.02	10.08	-0.040	-0.40	-	-	-	-	697.42	-	-	-	-	36	0.041	1.48	698.90						
						696.06	-1.48	-0.041	36	-	-	-	-	697.54	-	-	-	-	-0.20		10.08	697.34	88+00.00	697.14	10.08	-0.040	-0.40	-	-	-	-	697.54	-	-	-	-	36	0.041	1.48	699.02						
						696.16	-1.48	-0.041	36	-	-	-	-	697.64	-	-	-	-	-0.20		10.08	697.44	88+25.00	697.24	10.08	-0.040	-0.40	-	-	-	-	697.64	-	-	-	-	36	0.041	1.48	699.12						
						696.25	-1.48	-0.041	36	-	-	-	-	697.73	-	-	-	-	-0.20		10.08	697.53	88+50.00	697.33	10.08	-0.040	-0.40	-	-	-	-	697.73	-	-	-	-	36	0.041	1.48	699.21						
						696.32	-1.48	-0.041	36	-	-	-	-	697.80	-	-	-	-	-0.20		10.08	697.60	88+75.00	697.40	10.08	-0.040	-0.40	-	-	-	-	697.80	-	-	-	-	36	0.041	1.48	699.28						
						696.39	-1.48	-0.041	36	-	-	-	-	697.87	-	-	-	-	-0.20		10.08	697.67	89+00.00	697.47	10.08	-0.040	-0.40	-	-	-	-	697.87	-	-	-	-	36	0.041	1.48	699.35						
						696.44	-1.48	-0.041	36	-	-	-	-	697.92	-	-	-	-	-0.20		10.08	697.72	89+25.00	697.52	10.08	-0.040	-0.40	-	-	-	-	697.92	-	-	-	-	36	0.041	1.48	699.40						

HIGH SIDE SHOULDER WITH ROUNDING. SEE TYPICALS FOR DETAILS ON CROSS-SLOPE

N.C. = NORMAL CROWN R.C. = REVERSE CROWN P.C. = POINT OF CURVATURE F.S. = FULL SUPER H.S. = HIGH SIDE

Preliminary Plans - Not for Construction
Reference Only

SUPERELEVATION TABLE
I.R. 77 CURVE 1

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
KKP 03/31/22

PROJECT ID
105743

SHEET P.642 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet-1 PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:56:46 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_GE001.dgn

SUPERELEVATION TABLE - CURVE 1

REMARKS	P.I. STATION 86+50.82 — LEFT SIDE (SOUTHBOUND)																					CENTERLINE CONTROL	1°30'00" LT — RIGHT SIDE (NORTHBOUND)																									REMARKS
	TRANSITION RATE	EOS ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EOP ELVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	CROWN ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	PGL ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	INTERIM EOP ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EOS ELEVATION	STATION	EOS ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	INTERIM EOP ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	PGL ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	CROWN ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	EOP ELVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	EOS ELEVATION	TRANSITION RATE	
		696.01	-0.48	-0.040	12	696.49	-1.48	-0.041	36	-	-	-	-	697.97	-	-	-	-	-0.20	HIGH SIDE SHOULDER WITH ROUNDING. SEE TYPICALS FOR DETAILS ON CROSS-SLOPE	10.08	697.77	89+50.00	697.57	10.08	-0.040	-0.40	-	-	-	-	697.97	-	-	-	-	36	0.041	1.48	699.45							
		696.04	-0.48	-0.040	12	696.52	-1.48	-0.041	36	-	-	-	-	698.00	-	-	-	-	-0.20		10.08	697.80	89+75.00	697.60	10.08	-0.040	-0.40	-	-	-	-	698.00	-	-	-	-	36	0.041	1.48	699.48							
		696.06	-0.48	-0.040	12	696.54	-1.48	-0.041	36	-	-	-	-	698.02	-	-	-	-	-0.20		10.08	697.82	90+00.00	697.62	10.08	-0.040	-0.40	-	-	-	-	698.02	-	-	-	-	36	0.041	1.48	699.50							
		696.06	-0.48	-0.040	12	696.54	-1.48	-0.041	36	-	-	-	-	698.02	-	-	-	-	-0.20		10.08	697.82	90+25.00	697.62	10.08	-0.040	-0.40	-	-	-	-	698.02	-	-	-	-	36	0.041	1.48	699.50							
		696.06	-0.48	-0.040	12	696.54	-1.48	-0.041	36	-	-	-	-	698.02	-	-	-	-	-0.20		10.08	697.82	90+50.00	697.62	10.08	-0.040	-0.40	-	-	-	-	698.02	-	-	-	-	36	0.041	1.48	699.50							
		696.04	-0.48	-0.040	12	696.52	-1.48	-0.041	36	-	-	-	-	698.00	-	-	-	-	-0.20		10.08	697.80	90+75.00	697.60	10.08	-0.040	-0.40	-	-	-	-	698.00	-	-	-	-	36	0.041	1.48	699.48							
		696.02	-0.48	-0.040	12	696.50	-1.48	-0.041	36	-	-	-	-	697.98	-	-	-	-	-0.20		10.08	697.78	91+00.00	697.58	10.08	-0.040	-0.40	-	-	-	-	697.98	-	-	-	-	36	0.041	1.48	699.46							
		695.98	-0.48	-0.040	12	696.46	-1.48	-0.041	36	-	-	-	-	697.94	-	-	-	-	-0.20		10.08	697.74	91+25.00	697.54	10.08	-0.040	-0.40	-	-	-	-	697.94	-	-	-	-	36	0.041	1.48	699.42							
		695.93	-0.48	-0.040	12	696.41	-1.48	-0.041	36	-	-	-	-	697.89	-	-	-	-	-0.20		10.08	697.69	91+50.00	697.49	10.08	-0.040	-0.40	-	-	-	-	697.89	-	-	-	-	36	0.041	1.48	699.37							
		695.86	-0.48	-0.040	12	696.34	-1.48	-0.041	36	-	-	-	-	697.82	-	-	-	-	-0.20		10.08	697.62	91+75.00	697.42	10.08	-0.040	-0.40	-	-	-	-	697.82	-	-	-	-	36	0.041	1.48	699.30							
		695.79	-0.48	-0.040	12	696.27	-1.48	-0.041	36	-	-	-	-	697.75	-	-	-	-	-0.20		10.08	697.55	92+00.00	697.35	10.08	-0.040	-0.40	-	-	-	-	697.75	-	-	-	-	36	0.041	1.48	699.23							
		695.70	-0.48	-0.040	12	696.18	-1.48	-0.041	36	-	-	-	-	697.66	-	-	-	-	-0.20		10.08	697.46	92+25.00	697.26	10.08	-0.040	-0.40	-	-	-	-	697.66	-	-	-	-	36	0.041	1.48	699.14							
		695.61	-0.48	-0.040	12	696.09	-1.48	-0.041	36	-	-	-	-	697.57	-	-	-	-	-0.20		10.08	697.37	92+50.00	697.17	10.08	-0.040	-0.40	-	-	-	-	697.57	-	-	-	-	36	0.041	1.48	699.05							
		695.50	-0.48	-0.040	12	695.98	-1.48	-0.041	36	-	-	-	-	697.46	-	-	-	-	-0.20		10.08	697.26	92+75.00	697.06	10.08	-0.040	-0.40	-	-	-	-	697.46	-	-	-	-	36	0.041	1.48	698.94							
		695.38	-0.48	-0.040	12	695.86	-1.48	-0.041	36	-	-	-	-	697.34	-	-	-	-	-0.20		10.08	697.14	93+00.00	696.94	10.08	-0.040	-0.40	-	-	-	-	697.34	-	-	-	-	36	0.041	1.48	698.82							
		695.24	-0.48	-0.040	12	695.72	-1.48	-0.041	36	-	-	-	-	697.20	-	-	-	-	-0.20		10.08	697.00	93+25.00	696.80	10.08	-0.040	-0.40	-	-	-	-	697.20	-	-	-	-	36	0.041	1.48	698.68							
		695.10	-0.48	-0.040	12	695.58	-1.48	-0.041	36	-	-	-	-	697.06	-	-	-	-	-0.20		10.08	696.86	93+50.00	696.66	10.08	-0.040	-0.40	-	-	-	-	697.06	-	-	-	-	36	0.041	1.48	698.54							
						695.42	-1.48	-0.041	36	-	-	-	-	696.90	-	-	-	-	-0.20		10.08	696.70	93+75.00	696.50	10.08	-0.040	-0.40	-	-	-	-	696.90	-	-	-	-	36	0.041	1.48	698.38							
						695.26	-1.48	-0.041	36	-	-	-	-	696.74	-	-	-	-	-0.20		10.08	696.54	94+00.00	696.34	10.08	-0.040	-0.40	-	-	-	-	696.74	-	-	-	-	36	0.041	1.48	698.22							
						695.08	-1.48	-0.041	36	-	-	-	-	696.56	-	-	-	-	-0.20		10.08	696.36	94+25.00	696.16	10.08	-0.040	-0.40	-	-	-	-	696.56	-	-	-	-	36	0.041	1.48	698.04							
						694.89	-1.48	-0.041	36	-	-	-	-	696.37	-	-	-	-	-0.20		10.08	696.17	94+50.00	695.97	10.08	-0.040	-0.40	-	-	-	-	696.37	-	-	-	-	36	0.041	1.48	697.85							
						694.68	-1.48	-0.041	36	-	-	-	-	696.16	-	-	-	-	-0.20		10.08	695.96	94+75.00	695.76	10.08	-0.040	-0.40	-	-	-	-	696.16	-	-	-	-	36	0.041	1.48	697.64							
						694.47	-1.48	-0.041	36	-	-	-	-	695.95	-	-	-	-	-0.20		10.08	695.75	95+00.00	695.55	10.08	-0.040	-0.40	-	-	-	-	695.95	-	-	-	-	36	0.041	1.48	697.43							
						694.24	-1.48	-0.041	36	-	-	-	-	695.72	-	-	-	-	-0.20		10.08	695.52	95+25.00	695.32	10.08	-0.040	-0.40	-	-	-	-	695.72	-	-	-	-	36	0.041	1.48	697.20							
						694.00	-1.48	-0.041	36	-	-	-	-	695.48	-	-	-	-	-0.20		10.08	695.28	95+50.00	695.08	10.08	-0.040	-0.40	-	-	-	-	695.48	-	-	-	-	36	0.041	1.48	696.96							
						693.76	-1.48	-0.041	36	-	-	-	-	695.24	-	-	-	-	-0.20		10.08	695.04	95+75.00	694.84	10.08	-0.040	-0.40	-	-	-	-	695.24	-	-	-	-	36	0.041	1.48	696.72							
F.S.						693.56	-0.98	-0.041	24	694.54	-0.49	-0.041	12	695.03	-	-	-	-	-0.20		10.08	694.83	95+95.00	694.63	10.08	-0.040	-0.40	-	-	-	-	695.03	12	0.041	0.49	695.52	24	0.041	0.98	696.50							F.S.
						693.53	-0.96	-0.040	24	694.49	-0.48	-0.040	12	694.97	-	-	-	-	-0.20		10.08	694.77	96+00.00	694.57	10.08	-0.040	-0.40	-	-	-	-	694.97	12	0.040	0.48	695.45	24	0.040	0.96	696.41	10	H.S. SHLD W/ RNDNG	-0.20	696.21		
						693.38	-0.89	-0.037	24	694.27	-0.44	-0.037	12	694.71	-	-	-	-	-0.21		10.08	694.50	96+25.00	694.31	10.08	-0.040	-0.40	-	-	-	-	694.71	12	0.037	0.44	695.15	24	0.037	0.89	696.04	10		-0.21	695.83		
						693.21	-0.82	-0.034	24	694.03	-0.41	-0.034	12	694.44	-	-	-	-	-0.21		10.08	694.23	96+50.00	694.04	10.08	-0.040	-0.40	-	-	-	-	694.44	12	0.034	0.41	694.85	24	0.034	0.82	695.67	10		-0.21	695.46		
					AREA OF RAMP TERMINAL SEE GORE DETAILS FOR GORE, RAMP, EOP, AND SHOULDER ELEVATION	693.02	-0.77	-0.032	24	693.79	-0.38	-0.032	12	694.17	-	-	-	-	-0.22		10.08	693.95	96+75.00	693.77	10.08	-0.040	-0.40	-	-	-	-	694.17	12	0.032	0.38	694.55	24	0.032	0.77	695.32	10		-0.22	695.10		
						692.86	-0.70	-0.029	24	693.56	-0.35	-0.029	12	693.91	-	-	-	-	-0.40	-0.040	10.08	693.51	97+00.00	693.51	10.08	-0.040	-0.40	-	-	-	-	693.91	12	0.029	0.35	694.26	24	0.029	0.70	694.96	10		-0.040	-0.40	694.56	
P.T.						692.80	-0.65	-0.027	24	693.45	-0.32	-0.027	12	693.77	-	-	-	-	-0.40	-0.040	10.08	693.37	97+13.27	693.37	10.08	-0.040	-0.40	-	-	-	-	693.77	12	0.027	0.32	694.09	24	0.027	0.65	694.74	10		-0.040	-0.40	694.34	P.T.
			238 : 1			692.71	-0.62	-0.026	24	693.33	-0.31	-0.026	12	693.64	-	-	-	-	-0.40	-0.040	10.08	693.24	97+25.00	693.24	10.08	-0.040	-0.40	-	-	-	-	693.64	12	0.026	0.31	693.95	24	0.026	0.62	694.57	10		-0.040	-0.40	694.17	
						692.54	-0.55	-0.023	24	693.09	-0.28	-0.023	12	693.37	-	-	-	-	-0.40	-0.040	10.08	692.97	97+50.00	692.97	10.08	-0.040	-0.40	-	-	-	-	693.37	12	0.023	0.28	693.65	24	0.023	0.55	694.20	10		-0.040	-0.40	693.80	
						692.39	-0.48	-0.020	24	692.87	-0.24	-0.020	12	693.11	-	-	-	-	-0.40	-0.040	10.08	692.71	97+75.00	692.71	10.08	-0.040	-0.40	-	-	-	-	693.11	12	0.020	0.24	693.35	24	0.020	0.48	693.83	10		-0.040	-0.40	693.43	
						692.23	-0.41	-0.017	24	692.64	-0.20	-0.017	12	692.84	-	-	-	-	-0.40	-0.040	10.08	692.44	98+00.00	692.44	10.08	-0.040	-0.40	-	-	-	-	692.84	12	0.017	0.20	693.04	24	0.017	0.41	693.45	10		-0.040	-0.40	693.05	
R.C.						692.16	-0.38	-0.016	24	692.54	-0.19	-0.016	12	692.73	-	-	-	-	-0.40	-0.040	10.08	692.33	98+10.00	692.33	10.08	-0.040	-0.40	-	-	-	-	692.73	12	0.016	0.19	692.92	24	0.016	0.38	693.30	10		-0.040	-0.40	692.90	R.C.
						692.06	-0.38	-0.016	24	692.44	-0.13	-0.011	12	692.57	-	-	-	-	-0.40	-0.040	10.08	692.17	98+25.00	692.17	10.08	-0.040	-0.40	-	-	-	-	692.57	12	0.016	0.19	692.76	24	0.013	0.31	693.07	10		-0.040	-0.40	692.67	
						691.90	-0.38	-0.016	24	692.28	-0.02	-0.002	12	692.30	-	-	-	-	-0.40	-0.040	10.08	691.90	98+50.00	691.90	10.08	-0.040	-0.40	-	-	-	-	692.30	12	0.016	0.19	692.49	24	0.009	0.22	692.71	10		-0.040	-0.40	692.31	
½ FLAT						691.87	-0.38	-0.016	24	692.25	0.00	0.000	12	692.25	-	-	-	-	-0.40	-0.040	10.08	691.85	98+55.00	691.85	10.08	-0.040	-0.40	-	-	-	-	692.25	12	0.016	0.19	692.44	24	0.008	0.19	692.63	10		-0.040	-0.40	692.23	
						691.74	-0.38	-0.016	24	692.12	0.08	0.007	12	692.04	-	-	-	-	-0.40	-0.040	10.08	691.64	98+75.00	691.64	10.08	-0.040	-0.40	-	-	-	-	692.04	12	0.016	0.19	692.23	24	0.004	0.10	692.33	10		-0.040	-0.40	691.93	
N.C.						691.58	-0.38	-0.016	24	691.96	0.19	0.016	12	691.77	-	-	-	-	-0.40	-0.040	10.08	691.37	99+00.00	691.37	10.08	-0.040	-0.40	-	-	-	-	691.77	12	0.016	0.19	691.96	24	0.000	0.00	691.96	10		-0.040	-0.40	691.56	½ FLAT
						691.31	-0.38	-0.016	24	691.69	0.19	0.016	12	691.50	-	-	-	-	-0.40	-0.040	10.08	691.10	99+25.00	691.10	10.08	-0.040	-0.40	-	-	-	-	691.50	12	0.016	0.19	691.69	24	-0.004	-0.10	691.59	10		-0.040	-0.40	691.19	
						691.05	-0.38	-0.016	24	691.43	0.19	0.016	12	691.24	-	-	-	-	-0.40	-0.040	10.08	690.84	99+50.00	690.84	10.08	-0.040	-0.40	-	-	-	-	691.24	12	0.016	0.19	691.43	24	-0.009	-0.22	691.21	10		-0.040	-0.40	690.81	
						690.78	-0.38	-0.016	24	691.16	0.19	0.016	12	690.97	-	-	-	-	-0.40	-0.040	10.08	690.57	99+75.00	690.57	10.08	-0.040	-0.40	-	-	-	-	690.97	12	0.016	0.19	691.16	24	-0.013	-0.31	690.85	10		-0.040	-0.40	690.45	
						690.62	-0.38	-0.016	24	691.00	0.19	0.016	12	690.81	-	-	-	-	-0.40	-0.040	10.08	690.41	99+90.00	690.41	10.08	-0.040	-0.40	-	-	-	-	690.81	12	0.016	0.19	691.00	24	-0.016	-0.38	690.62	10		-0.040	-0.40	690.22	N.C.

AREA OF RAMP TERMINAL SEE GORE DETAILS FOR GORE, RAMP, EOP, AND SHOULDER ELEVATION

238 : 1

N.C. = NORMAL CROWN R.C. = REVERSE CROWN P.C. = POINT OF CURVATURE F.S. = FULL SUPER H.S. = HIGH SIDE

Preliminary Plans Not For Construction
Reference Only

SUPERELEVATION TABLE
I.R. 77 CURVE 1

CUY-77-11.41 - PART 1

MODEL: Sheet-2 PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:56:47 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GE001.dgn

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER KKP 03/31/22
PROJECT ID 105743
SHEET P.643 TOTAL P.1269

SUPERELEVATION TABLE - CURVE 2

REMARKS	P.I. STATION 117+76.34 — LEFT SIDE (SOUTHBOUND)																	CENTERLINE CONTROL	1°15'00" RT — RIGHT SIDE (NORTHBOUND)																		REMARKS
	TRANSITION RATE	EOS ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EOP ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	CROWN ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	PGL ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EOS ELEVATION	STATION	EOS ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	PGL ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	CROWN ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	EOP ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	EOS ELEVATION	TRANSITION RATE	
N.C.	238 : 1	AREA OF RAMP TERMINAL SEE GORE DETAILS FOR GORE, RAMP, EOP, AND SHOULDER ELEVATION				689.69	-0.38	-0.016	24	690.07	0.19	0.016	12	689.88	-0.40	-0.040	10.08	689.48	100+75.00	689.48	10.08	-0.040	-0.40	689.88	12	0.016	0.19	690.07	24	-0.016	-0.38	689.69	10	-0.040	-0.40	689.29		
						689.50	-0.28	-0.012	24	689.78	0.19	0.016	12	689.59	-0.40	-0.040	10.08	689.19	101+00.00	689.19	10.08	-0.040	-0.40	689.59	12	0.016	0.19	689.78	24	-0.016	-0.38	689.40	10	-0.040	-0.40	689.00		
						689.30	-0.17	-0.007	24	689.47	0.19	0.016	12	689.28	-0.40	-0.040	10.08	688.88	101+25.00	688.88	10.08	-0.040	-0.40	689.28	12	0.016	0.19	689.47	24	-0.016	-0.38	689.09	10	-0.040	-0.40	688.69		
						689.09	-0.06	-0.003	24	689.15	0.19	0.016	12	688.96	-0.40	-0.040	10.08	688.56	101+50.00	688.56	10.08	-0.040	-0.40	688.96	12	0.016	0.19	689.15	24	-0.016	-0.38	688.77	10	-0.040	-0.40	688.37		
½ FLAT						688.96	0.00	0.000	24	688.96	0.19	0.016	12	688.77	-0.40	-0.040	10.08	688.37	101+65.00	688.37	10.08	-0.040	-0.40	688.77	12	0.016	0.19	688.96	24	-0.016	-0.38	688.58	10	-0.040	-0.40	688.18		N.C.
						688.86	0.04	0.002	24	688.82	0.19	0.016	12	688.63	-0.40	-0.040	10.08	688.23	101+75.00	688.23	10.08	-0.040	-0.40	688.63	12	0.012	0.15	688.78	24	-0.016	-0.38	688.40	10	-0.040	-0.40	688.00		
						688.63	0.15	0.006	24	688.48	0.19	0.016	12	688.29	-0.40	-0.040	10.08	687.89	102+00.00	687.89	10.08	-0.040	-0.40	688.29	12	0.004	0.04	688.33	24	-0.016	-0.38	687.95						
						688.53	0.19	0.008	24	688.34	0.19	0.016	12	688.15	-0.40	-0.040	10.08	687.75	102+10.00	687.75	10.08	-0.040	-0.40	688.15	12	0.000	0.00	688.15	24	-0.016	-0.38	687.77					½ FLAT
						688.39	0.26	0.011	24	688.13	0.19	0.016	12	687.94	-0.40	-0.040	10.08	687.54	102+25.00	687.54	10.08	-0.040	-0.40	687.94	12	-0.005	-0.06	687.88	24	-0.016	-0.38	687.49					
						688.13	0.36	0.015	24	687.77	0.19	0.016	12	687.58	-0.40	-0.040	10.08	687.18	102+50.00	687.18	10.08	-0.040	-0.40	687.58	12	-0.014	-0.17	687.41	24	-0.016	-0.38	687.03					
R.C.						688.08	0.38	0.016	24	687.69	0.19	0.016	12	687.50	-0.40	-0.040	10.08	687.10	102+55.00	687.10	10.08	-0.040	-0.40	687.50	12	-0.016	-0.19	687.31	24	-0.016	-0.38	686.92					R.C.
						687.87	0.44	0.018	24	687.43	0.22	0.018	12	687.21	-0.40	-0.040	10.08	686.81	102+75.00	686.81	10.08	-0.040	-0.40	687.21	12	-0.018	-0.22	686.99	24	-0.018	-0.44	686.55					
						687.61	0.51	0.021	24	687.10	0.25	0.021	12	686.85	-0.40	-0.040	10.08	686.45	103+00.00	686.45	10.08	-0.040	-0.40	686.85	12	-0.021	-0.25	686.60	24	-0.021	-0.51	686.09					
						687.35	0.57	0.024	24	686.78	0.29	0.024	12	686.49	-0.40	-0.040	10.08	686.09	103+25.00	686.09	10.08	-0.040	-0.40	686.49	12	-0.024	-0.29	686.20	24	-0.024	-0.57	685.63					
P.C.						687.34	0.58	0.024	24	686.77	0.29	0.024	12	686.48	-0.40	-0.040	10.08	686.08	103+25.93	686.08	10.08	-0.040	-0.40	686.48	12	-0.024	-0.29	686.19	24	-0.024	-0.58	685.62					P.C.
						687.09	0.64	0.027	24	686.45	0.32	0.027	12	686.13	-0.40	-0.040	10.08	685.73	103+50.00	685.73	10.08	-0.040	-0.40	686.13	12	-0.027	-0.32	685.81	24	-0.027	-0.64	685.17					
						686.84	0.71	0.030	24	686.13	0.36	0.030	12	685.77	-0.40	-0.040	10.08	685.37	103+75.00	685.37	10.08	-0.040	-0.40	685.77	12	-0.030	-0.36	685.41	24	-0.030	-0.71	684.70					
						686.57	0.78	0.033	24	685.79	0.39	0.033	12	685.40	-0.40	-0.040	10.08	685.00	104+00.00	685.18	10.08		-0.22	685.40	12	-0.033	-0.39	685.01	24	-0.033	-0.78	684.23					
						686.32	0.85	0.035	24	685.47	0.43	0.035	12	685.04	-0.40	-0.040	10.08	684.64	104+25.00	684.83	10.08		-0.21	685.04	12	-0.035	-0.43	684.61	24	-0.035	-0.85	683.76					
F.S.						686.27	0.86	0.036	24	685.40	0.43	0.036	12	684.97	-0.40	-0.040	10.08	684.57	104+30.00	684.76	10.08		-0.21	684.97	12	-0.036	-0.43	684.54	24	-0.036	-0.86	683.67					F.S.
						685.98	1.30	0.036	36	-	-	-	-	684.68	-0.40	-0.040	10.08	684.28	104+50.00	684.47	10.08		-0.21	684.68	-	-	-	-	36	-0.036	-1.30	683.38					
						685.62	1.30	0.036	36	-	-	-	-	684.32	-0.40	-0.040	10.08	683.92	104+75.00	684.11	10.08		-0.21	684.32	-	-	-	-	36	-0.036	-1.30	683.02					
						685.26	1.30	0.036	36	-	-	-	-	683.96	-0.40	-0.040	10.08	683.56	105+00.00	683.75	10.08		-0.21	683.96	-	-	-	-	36	-0.036	-1.30	682.66					
						684.89	1.30	0.036	36	-	-	-	-	683.59	-0.40	-0.040	10.08	683.19	105+25.00	683.38	10.08		-0.21	683.59	-	-	-	-	36	-0.036	-1.30	682.29					
						684.53	1.30	0.036	36	-	-	-	-	683.23	-0.40	-0.040	10.08	682.83	105+50.00	683.02	10.08		-0.21	683.23	-	-	-	-	36	-0.036	-1.30	681.93					
						684.17	1.30	0.036	36	-	-	-	-	682.87	-0.40	-0.040	10.08	682.47	105+75.00	682.66	10.08		-0.21	682.87	-	-	-	-	36	-0.036	-1.30	681.57					
						683.81	1.30	0.036	36	-	-	-	-	682.51	-0.40	-0.040	10.08	682.11	106+00.00	682.30	10.08		-0.21	682.51	-	-	-	-	36	-0.036	-1.30	681.21					
						683.44	1.30	0.036	36	-	-	-	-	682.14	-0.40	-0.040	10.08	681.74	106+25.00	681.93	10.08		-0.21	682.14	-	-	-	-	36	-0.036	-1.30	680.84					
						683.08	1.30	0.036	36	-	-	-	-	681.78	-0.40	-0.040	10.08	681.38	106+50.00	681.57	10.08		-0.21	681.78	-	-	-	-	36	-0.036	-1.30	680.48					
						682.72	1.30	0.036	36	-	-	-	-	681.42	-0.40	-0.040	10.08	681.02	106+75.00	681.21	10.08		-0.21	681.42	-	-	-	-	36	-0.036	-1.30	680.12	10	-0.040	-0.40	679.72		
						682.36	1.30	0.036	36	-	-	-	-	681.06	-0.40	-0.040	10.08	680.66	107+00.00	680.85	10.08		-0.21	681.06	-	-	-	-	36	-0.036	-1.30	679.76	10	-0.040	-0.40	679.36		
						682.00	1.30	0.036	36	-	-	-	-	680.70	-0.40	-0.040	10.08	680.30	107+25.00	680.49	10.08		-0.21	680.70	-	-	-	-	36	-0.036	-1.30	679.40	10	-0.040	-0.40	679.00		
						681.63	1.30	0.036	36	-	-	-	-	680.33	-0.40	-0.040	10.08	679.93	107+50.00	680.12	10.08		-0.21	680.33	-	-	-	-	36	-0.036	-1.30	679.03	10	-0.040	-0.40	678.63		
						681.27	1.30	0.036	36	-	-	-	-	679.97	-0.40	-0.040	10.08	679.57	107+75.00	679.76	10.08		-0.21	679.97	-	-	-	-	36	-0.036	-1.30	678.67	10	-0.040	-0.40	678.27		
						680.91	1.30	0.036	36	-	-	-	-	679.61	-0.40	-0.040	10.08	679.21	108+00.00	679.40	10.08		-0.21	679.61	-	-	-	-	36	-0.036	-1.30	678.31	10	-0.040	-0.40	677.91		
						680.55	1.30	0.036	36	-	-	-	-	679.25	-0.40	-0.040	10.08	678.85	108+25.00	679.04	10.08		-0.21	679.25	-	-	-	-	36	-0.036	-1.30	677.95	10	-0.040	-0.40	677.55		
						680.19	1.30	0.036	36	-	-	-	-	678.89	-0.40	-0.040	10.08	678.49	108+50.00	678.68	10.08		-0.21	678.89	-	-	-	-	36	-0.036	-1.30	677.59	10	-0.040	-0.40	677.19		
		679.61	-0.21	HIGH SIDE SHOULDER WITH ROUNDING. SEE TYPICALS FOR DETAILS ON CROSS-SLOPE	10	679.82	1.30	0.036	36	-	-	-	-	678.52	-0.40	-0.040	10.08	678.12	108+75.00	678.31	10.08	HIGH SIDE SHOULDER WITH ROUNDING. SEE TYPICALS FOR DETAILS ON CROSS-SLOPE	-0.21	678.52	-	-	-	-	36	-0.036	-1.30	677.22	10	-0.040	-0.40	676.82		
		679.25	-0.21		10	679.46	1.30	0.036	36	-	-	-	-	678.16	-0.40	-0.040	10.08	677.76	109+00.00	677.95	10.08		-0.21	678.16	-	-	-	-	36	-0.036	-1.30	676.86	10	-0.040	-0.40	676.46		
		678.89	-0.21		10	679.10	1.30	0.036	36	-	-	-	-	677.80	-0.40	-0.040	10.08	677.40	109+25.00	677.59	10.08		-0.21	677.80	-	-	-	-	36	-0.036	-1.30	676.50	10	-0.040	-0.40	676.10		
		678.53	-0.21		10	678.74	1.30	0.036	36	-	-	-	-	677.44	-0.40	-0.040	10.08	677.04	109+50.00	677.23	10.08		-0.21	677.44	-	-	-	-	36	-0.036	-1.30	676.14	10	-0.040	-0.40	675.74		
		678.16	-0.21		10	678.37	1.30	0.036	36	-	-	-	-	677.07	-0.40	-0.040	10.08	676.67	109+75.00	676.86	10.08		-0.21	677.07	-	-	-	-	36	-0.036	-1.30	675.77	10	-0.040	-0.40	675.37		
		677.80	-0.21		10	678.01	1.30	0.036	36	-	-	-	-	676.71	-0.40	-0.040	10.08	676.31	110+00.00	676.50	10.08		-0.21	676.71	-	-	-	-	36	-0.036	-1.30	675.41	10	-0.040	-0.40	675.01		
		677.44	-0.21		10	677.65	1.30	0.036	36	-	-	-	-	676.35	-0.40	-0.040	10.08	675.95	110+25.00	676.14	10.08		-0.21	676.35	-	-	-	-	36	-0.036	-1.30	675.05	10	-0.040	-0.40	674.65		
		677.08	-0.21		10	677.29	1.30	0.036	36	-	-	-	-	675.99	-0.40	-0.040	10.08	675.59	110+50.00	675.78	10.08		-0.21	675.99	-	-	-	-	36	-0.036	-1.30	674.69	10	-0.040	-0.40	674.29		
		676.72	-0.21		10	676.93	1.30	0.036	36	-	-	-	-	675.63	-0.40	-0.040	10.08	675.23	110+75.00	675.42	10.08		-0.21	675.63	-	-	-	-	36	-0.036	-1.30	674.33	10	-0.040	-0.40	673.93		
		676.35	-0.21		10	676.56	1.30	0.036	36	-	-	-	-	675.26	-0.40	-0.040	10.08	674.86	111+00.00	675.05	10.08		-0.21	675.26	-	-	-	-	36	-0.036	-1.30	673.96	10	-0.040	-0.40	673.56		
		675.99	-0.21		10	676.20	1.30	0.036	36	-	-	-	-	674.90	-0.40	-0.040	10.08	674.50	111+25.00	674.69	10.08		-0.21	674.90	-	-	-	-	36	-0.036	-1.30	673.60	10	-0.040	-0.40	673.20		
		675.63	-0.21		10	675.84	1.30	0.036	36	-	-	-	-	674.54	-0.40	-0.040	10.08	674.14	111+50.00	674.33	10.08		-0.21	674.54	-	-	-	-	36	-0.036	-1.30	673.24	10	-0.040	-0.40	672.84		
		675.27	-0.21		10	675.48	1.30	0.036	36	-	-	-	-	674.18	-0.40	-0.040	10.08	673.78	111+75.00	673.97	10.08		-0.21	674.18	-	-	-	-	36	-0.036	-1.30	672.88	10	-0.040	-0.40	672.48		
		674.91	-0.21		10	675.12	1.30	0.036	36	-	-	-	-	673.82	-0.40	-0.040	10.08	673.42	112+00.00	673.61	10.08		-0.21	673.82	-	-	-	-	36	-0.036	-1.30	672.52	10	-0.040	-0.40	672.12		
		674.54	-0.21		10	674.75	1.30	0.036	36	-	-	-	-	673.45	-0.40	-0.040	10.08	673.05	112+25.00	673.24	10.08		-0.21	673.45	-	-	-	-	36	-0.036	-1.30	672.15	10	-0.040	-0.40	671.75		
		674.18	-0.21		10	674.39	1.30	0.036	36	-	-	-	-	673.09	-0.40	-0.040	10.08	672.69	112+50.00	672.88	10.08		-0.21	673.09	-	-	-	-	36	-0.036	-1.30	671.79	10	-0.040	-0.40	671.39		
		673.82	-0.21		10	674.03	1.30	0.036	36	-	-	-	-	672.73	-0.40	-0.040	10.08	672.33	112+75.00	672.52	10.08		-0.21	672.73	-	-	-	-	36	-0.036	-1.30	671.43	10	-0.040	-0.40	671.03		
		673.46	-0.21		10	673.67	1.30	0.036	36	-	-	-	-	672.37	-0.40	-0.040	10.08	671.97	113+00.00	672.16	10.08		-0.21	672.37	-	-	-	-	36	-0.036	-1.30	671.07	10	-0.040	-0.40	670.67		
		673.10	-0.21		10	673.31	1.30	0.036	36	-	-	-	-	672.01	-0.40	-0.040	10.08	671.61	113+25.00	671.80	10.08		-0.21	672.01	-	-	-	-	36	-0.036	-1.30	670.71	10	-0.040	-0.40	670.31		
		672.73	-0.21		10	672.94	1.30	0.036	36	-	-	-	-	671.64	-0.40	-0.040	10.08	671.24	113+50.00	671.43	10.08		-0.21	671.64	-	-	-	-	36	-0.036	-1.30	670.34	10	-0.040	-0.40	669.94		
		672.37	-0.21		10	672.58	1.30	0.036	36	-	-	-	-	671.28	-0.40	-0.040	10.08	670.88	113+75.00	671.07	10.08		-0.21	671.28	-	-	-	-	36	-0.036	-1.30	669.98	10	-0.040	-0.40	669.58		
		672.01	-0.21		10	672.22	1.30	0.036	36	-	-	-	-	670.92	-0.40	-0.040	10.08	670.52	114+00.00	670.71	10.08		-0.21	670.92	-	-	-	-	36	-0.036	-1.30	669.62	10	-0.040	-0.40	669.22		
		671.65	-0.21		10	671.86	1.30	0.036	36	-	-	-	-	670.56	-0.40	-0.040	10.08	670.16	114+25.00	670.35	10.08		-0.21	670.56	-	-	-	-	36	-0.036	-1.30	669.26	10	-0.040	-0.40	668.86		
		671.28	-0.21		10	671.49	1.30	0.036	36	-	-	-	-	670.19	-0.40	-0.040	10.08	669.79	114+50.00	669.98	10.08		-0.21	670.19	-	-	-	-	36	-0.036	-1.30	668.89	10	-0.040	-0.40	668.49		
		670.92	-0.21		10	671.13	1.30	0.036	36	-	-	-	-	669.83	-0.40	-0.040	10.08	669.43	114+75.00	669.62	10.08		-0.21	669.83	-	-	-	-	36	-0.036	-1.30	668.53	10	-0.040	-0.40	668.13		
		670.56	-0.21		10	670.77	1.30	0.036	36	-	-	-	-	669.47	-0.40	-0.040	10.08	669.07	115+00.00	669.26	10.08		-0.21	669.47	-	-	-	-	36	-0.036	-1.30	668.17	10	-0.040	-0.40	667.77		
		670.20	-0.21		10	670.41	1.30	0.036	36	-	-	-	-	669.11	-0.40	-0.040	10.08	668.71	115+25.00	668.90	10.08		-0.21	669.11	-	-	-	-	36	-0.036	-1.30	667.81	10	-0.040	-0.40	667.41		
		669.84	-0.21		10	670.05	1.30	0.036	36	-	-	-	-	668.75	-0.40	-0.040	10.08	668.35	115+50.00	668.54	10.08		-0.21	668.75	-	-	-	-	36	-0.036	-1.30	667.45	10	-0.040	-0.40	667.05		
		669.47	-0.21		10	669.68	1.30	0.036	36	-	-	-	-	668.38	-0.40	-0.040	10.08	667.98	115+75.00	668.17	10.08		-0.21	668.38	-	-	-	-	36	-0.036	-1.30	667.08	10	-0.040	-0.40	666.68		
		669.11	-0.21		10	669.32	1.30	0.036	36	-	-	-	-	668.02	-0.40	-0.040	10.08	667.62	116+00.00	667.81	10.08		-0.21	668.02	-	-	-	-	36	-0.036	-1.30	666.72	10	-0.040	-0.40	666.32		
		668.75	-0.21		10	668.96	1.30	0.036	36	-	-	-	-	667.66	-0.40	-0.040	10.08	667.26	116+25.00	667.45	10.08		-0.21	667.66	-	-	-	-	36	-0.036	-1.30	666.36	10	-0.040	-0.40	665.96		
		668.39	-0.21		10	668.60	1.30	0.036	36	-	-	-	-	667.30	-0.40	-0.040	10.08	666.90	116+50.00	667.09	10.08		-0.21	667.30	-	-	-	-	36	-0.036	-1.30	666.00	10	-0.040	-0.40	665.60		
		668.03	-0.21		10	668.24	1.30	0.036	36	-	-	-	-	666.94	-0.40	-0.040	10.08	666.54	116+75.00	666.73	10.08		-0.21	666.94	-	-	-	-	36	-0.036	-1.30	665.64	10	-0.040	-0.40	665.24		
		667.66	-0.21		10	667.87	1.30	0.036	36	-	-	-	-	666.57	-0.40	-0.040	10.08	666.17	117+00.00	666.36	10.08		-0.21	666.57	-	-	-	-	36	-0.036	-1.30	665.27	10	-0.040	-0.40	664.87		
		667.30	-0.21		10	667.51	1.30	0.036	36	-	-	-	-	666.21	-0.40	-0.040	10.08	665.81	117+25.00	666.00	10.08		-0.21	666.21	-	-	-	-	36	-0.036	-1.30	664.91	10	-0.040	-0.40	664.51		
		666.94	-0.21		10	667.15	1.30	0.036	36	-	-	-	-	665.85	-0.40	-0.040	10.08	665.45	117+50.00	665.64	10.08		-0.21	665.85	-	-	-	-	36	-0.036	-1.30	664.55	10	-0.040	-0.40	664.15		

N.C. = NORMAL CROWN R.C. = REVERSE CROWN P.C. = POINT OF CURVATURE F.S. = FULL SUPER H.S. = HIGH SIDE

Preliminary Plans Not For Reference Only

SUPERELEVATION TABLE
I.R. 77 CURVE 2

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER KKP 03/31/22
PROJECT ID 105743
SHEET P.644 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet-3 PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:56:49 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GE001.dgn

SUPERELEVATION TABLE - CURVE 2

REMARKS	P.I. STATION 117+76.34 LEFT SIDE (SOUTHBOUND)																		CENTERLINE CONTROL	1°15'00" RT RIGHT SIDE (NORTHBOUND)																			REMARKS
	TRANSITION RATE	EOS ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EOP ELVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	CROWN ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	PGL ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EOS ELEVATION	STATION	EOS ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	PGL ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	CROWN ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	EOP ELVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	EOS ELEVATION	TRANSITION RATE	
		666.58	-0.21	HIGH SIDE SHLDER W/ ROUNDING. SEE TYPICALS FOR DETAILS ON CROSS-SLOPE	10	666.79	1.30	0.036	36	-	-	-	-	665.49	-0.40	-0.040	10.08	665.09	117+75.00	665.28	10.08	HIGH SIDE SHOULDER WITH ROUNDING. SEE TYPICALS FOR DETAILS ON CROSS-SLOPE	-0.21	665.49	-	-	-	-	36	-0.036	-1.30	664.19	10	-0.040	-0.40	663.79		
		666.21	-0.21		10	666.42	1.30	0.036	36	-	-	-	-	665.12	-0.40	-0.040	10.08	664.72	118+00.00	664.91	10.08		-0.21	665.12	-	-	-	-	36	-0.036	-1.30	663.82						
		665.85	-0.21		10	666.06	1.30	0.036	36	-	-	-	-	664.76	-0.40	-0.040	10.08	664.36	118+25.00	664.55	10.08		-0.21	664.76	-	-	-	-	36	-0.036	-1.30	663.46						
		665.49	-0.21		10	665.70	1.30	0.036	36	-	-	-	-	664.40	-0.40	-0.040	10.08	664.00	118+50.00	664.19	10.08		-0.21	664.40	-	-	-	-	36	-0.036	-1.30	663.10						
		665.13	-0.21		10	665.34	1.30	0.036	36	-	-	-	-	664.04	-0.40	-0.040	10.08	663.64	118+75.00	663.83	10.08		-0.21	664.04	-	-	-	-	36	-0.036	-1.30	662.74						
		664.77	-0.21		10	664.98	1.30	0.036	36	-	-	-	-	663.68	-0.40	-0.040	10.08	663.28	119+00.00	663.47	10.08		-0.21	663.68	-	-	-	-	36	-0.036	-1.30	662.38						
		664.40	-0.21		10	664.61	1.30	0.036	36	-	-	-	-	663.31	-0.40	-0.040	10.08	662.91	119+25.00	663.10	10.08		-0.21	663.31	-	-	-	-	36	-0.036	-1.30	662.01						
		664.04	-0.21		10	664.25	1.30	0.036	36	-	-	-	-	662.95	-0.40	-0.040	10.08	662.55	119+50.00	662.74	10.08		-0.21	662.95	-	-	-	-	36	-0.036	-1.30	661.65						
						663.89	1.30	0.036	36	-	-	-	-	662.59	-0.40	-0.040	10.08	662.19	119+75.00	662.38	10.08		-0.21	662.59	-	-	-	-	36	-0.036	-1.30	661.29						
						663.53	1.30	0.036	36	-	-	-	-	662.23	-0.40	-0.040	10.08	661.83	120+00.00	662.02	10.08		-0.21	662.23	-	-	-	-	36	-0.036	-1.30	660.93						
						663.17	1.30	0.036	36	-	-	-	-	661.87	-0.40	-0.040	10.08	661.47	120+25.00	661.66	10.08		-0.21	661.87	-	-	-	-	36	-0.036	-1.30	660.57						
						662.80	1.30	0.036	36	-	-	-	-	661.50	-0.40	-0.040	10.08	661.10	120+50.00	661.29	10.08		-0.21	661.50	-	-	-	-	36	-0.036	-1.30	660.20						
						662.44	1.30	0.036	36	-	-	-	-	661.14	-0.40	-0.040	10.08	660.74	120+75.00	660.93	10.08		-0.21	661.14	-	-	-	-	36	-0.036	-1.30	659.84						
						662.08	1.30	0.036	36	-	-	-	-	660.78	-0.40	-0.040	10.08	660.38	121+00.00	660.57	10.08		-0.21	660.78	-	-	-	-	36	-0.036	-1.30	659.48						
						661.72	1.30	0.036	36	-	-	-	-	660.42	-0.40	-0.040	10.08	660.02	121+25.00	660.21	10.08		-0.21	660.42	-	-	-	-	36	-0.036	-1.30	659.12						
						661.35	1.30	0.036	36	-	-	-	-	660.05	-0.40	-0.040	10.08	659.65	121+50.00	659.84	10.08		-0.21	660.05	-	-	-	-	36	-0.036	-1.30	658.75						
						660.99	1.30	0.036	36	-	-	-	-	659.69	-0.40	-0.040	10.08	659.29	121+75.00	659.48	10.08		-0.21	659.69	-	-	-	-	36	-0.036	-1.30	658.39						
						660.63	1.30	0.036	36	-	-	-	-	659.33	-0.40	-0.040	10.08	658.93	122+00.00	659.12	10.08		-0.21	659.33	-	-	-	-	36	-0.036	-1.30	658.03						
						660.27	1.30	0.036	36	-	-	-	-	658.97	-0.40	-0.040	10.08	658.57	122+25.00	658.76	10.08		-0.21	658.97	-	-	-	-	36	-0.036	-1.30	657.67						
						659.91	1.30	0.036	36	-	-	-	-	658.61	-0.40	-0.040	10.08	658.21	122+50.00	658.40	10.08		-0.21	658.61	-	-	-	-	36	-0.036	-1.30	657.31						
						659.54	1.30	0.036	36	-	-	-	-	658.24	-0.40	-0.040	10.08	657.84	122+75.00	658.03	10.08		-0.21	658.24	-	-	-	-	36	-0.036	-1.30	656.94						
						659.18	1.30	0.036	36	-	-	-	-	657.88	-0.40	-0.040	10.08	657.48	123+00.00	657.67	10.08		-0.21	657.88	-	-	-	-	36	-0.036	-1.30	656.58						
						658.82	1.30	0.036	36	-	-	-	-	657.52	-0.40	-0.040	10.08	657.12	123+25.00	657.31	10.08		-0.21	657.52	-	-	-	-	36	-0.036	-1.30	656.22						
						658.46	1.30	0.036	36	-	-	-	-	657.16	-0.40	-0.040	10.08	656.76	123+50.00	656.95	10.08		-0.21	657.16	-	-	-	-	36	-0.036	-1.30	655.86						
						658.10	1.30	0.036	36	-	-	-	-	656.80	-0.40	-0.040	10.08	656.40	123+75.00	656.59	10.08		-0.21	656.80	-	-	-	-	36	-0.036	-1.30	655.50						
						657.73	1.30	0.036	36	-	-	-	-	656.43	-0.40	-0.040	10.08	656.03	124+00.00	656.22	10.08		-0.21	656.43	-	-	-	-	36	-0.036	-1.30	655.13						
						657.37	1.30	0.036	36	-	-	-	-	656.07	-0.40	-0.040	10.08	655.67	124+25.00	655.86	10.08		-0.21	656.07	-	-	-	-	36	-0.036	-1.30	654.77						
						657.01	1.30	0.036	36	-	-	-	-	655.71	-0.40	-0.040	10.08	655.31	124+50.00	655.50	10.08		-0.21	655.71	-	-	-	-	36	-0.036	-1.30	654.41						
						656.65	1.30	0.036	36	-	-	-	-	655.35	-0.40	-0.040	10.08	654.95	124+75.00	655.14	10.08		-0.21	655.35	-	-	-	-	36	-0.036	-1.30	654.05						
						656.28	1.30	0.036	36	-	-	-	-	654.98	-0.40	-0.040	10.08	654.58	125+00.00	654.77	10.08		-0.21	654.98	-	-	-	-	36	-0.036	-1.30	653.68						
						655.92	1.30	0.036	36	-	-	-	-	654.62	-0.40	-0.040	10.08	654.22	125+25.00	654.41	10.08		-0.21	654.62	-	-	-	-	36	-0.036	-1.30	653.32						
						655.56	1.30	0.036	36	-	-	-	-	654.26	-0.40	-0.040	10.08	653.86	125+50.00	654.05	10.08		-0.21	654.26	-	-	-	-	36	-0.036	-1.30	652.96						
						655.20	1.30	0.036	36	-	-	-	-	653.90	-0.40	-0.040	10.08	653.50	125+75.00	653.69	10.08		-0.21	653.90	-	-	-	-	36	-0.036	-1.30	652.60						
						654.84	1.30	0.036	36	-	-	-	-	653.54	-0.40	-0.040	10.08	653.14	126+00.00	653.33	10.08		-0.21	653.54	-	-	-	-	36	-0.036	-1.30	652.24						
						654.47	1.30	0.036	36	-	-	-	-	653.17	-0.40	-0.040	10.08	652.77	126+25.00	652.96	10.08		-0.21	653.17	-	-	-	-	36	-0.036	-1.30	651.87						
						654.11	1.30	0.036	36	-	-	-	-	652.81	-0.40	-0.040	10.08	652.41	126+50.00	652.60	10.08		-0.21	652.81	-	-	-	-	36	-0.036	-1.30	651.51						
						653.75	1.30	0.036	36	-	-	-	-	652.45	-0.40	-0.040	10.08	652.05	126+75.00	652.24	10.08		-0.21	652.45	-	-	-	-	36	-0.036	-1.30	651.15						
						653.39	1.30	0.036	36	-	-	-	-	652.09	-0.40	-0.040	10.08	651.69	127+00.00	651.88	10.08		-0.21	652.09	-	-	-	-	36	-0.036	-1.30	650.79						
		652.82	-0.21	HIGH SIDE SHOULDER WITH ROUNDING. SEE TYPICALS FOR DETAILS ON CROSS-SLOPE	10	653.03	1.30	0.036	36	-	-	-	-	651.73	-0.40	-0.040	10.08	651.33	127+25.00	651.52	10.08		-0.21	651.73	-	-	-	-	36	-0.036	-1.30	650.43						
		652.47	-0.21		10	652.68	1.30	0.036	36	-	-	-	-	651.38	-0.40	-0.040	10.08	650.98	127+50.00	651.17	10.08		-0.21	651.38	-	-	-	-	36	-0.036	-1.30	650.08						
		652.16	-0.21		10	652.37	1.30	0.036	36	-	-	-	-	651.07	-0.40	-0.040	10.08	650.67	127+75.00	650.86	10.08		-0.21	651.07	-	-	-	-	36	-0.036	-1.30	649.77						
		651.89	-0.21		10	652.10	1.30	0.036	36	-	-	-	-	650.80	-0.40	-0.040	10.08	650.40	128+00.00	650.59	10.08		-0.21	650.80	-	-	-	-	36	-0.036	-1.30	649.50						
		651.65	-0.21		10	651.86	1.30	0.036	36	-	-	-	-	650.56	-0.40	-0.040	10.08	650.16	128+25.00	650.35	10.08		-0.21	650.56	-	-	-	-	36	-0.036	-1.30	649.26						
		651.45	-0.21		10	651.66	1.30	0.036	36	-	-	-	-	650.36	-0.40	-0.040	10.08	649.96	128+50.00	650.15	10.08		-0.21	650.36	-	-	-	-	36	-0.036	-1.30	649.06						
		651.29	-0.21		10	651.50	1.30	0.036	36	-	-	-	-	650.20	-0.40	-0.040	10.08	649.80	128+75.00	649.99	10.08		-0.21	650.20	-	-	-	-	36	-0.036	-1.30	648.90						
		651.16	-0.21		10	651.37	1.30	0.036	36	-	-	-	-	650.07	-0.40	-0.040	10.08	649.67	129+00.00	649.86	10.08		-0.21	650.07	-	-	-	-	36	-0.036	-1.30	648.77						
		651.07	-0.21		10	651.28	1.30	0.036	36	-	-	-	-	649.98	-0.40	-0.040	10.08	649.58	129+25.00	649.77	10.08		-0.21	649.98	-	-	-	-	36	-0.036	-1.30	648.68						
		651.01	-0.21		10	651.22	1.30	0.036	36	-	-	-	-	649.92	-0.40	-0.040	10.08	649.52	129+50.00	649.71	10.08		-0.21	649.92	-	-	-	-	36	-0.036	-1.30	648.62						
		650.99	-0.21		10	651.20	1.30	0.036	36	-	-	-	-	649.90	-0.40	-0.040	10.08	649.50	129+75.00	649.69	10.08		-0.21	649.90	-	-	-	-	36	-0.036	-1.30	648.60						
		651.00	-0.21		10	651.21	1.30	0.036	36	-	-	-	-	649.91	-0.40	-0.040	10.08	649.51	130+00.00	649.70	10.08		-0.21	649.91	-	-	-	-	36	-0.036	-1.30	648.61						
		651.05	-0.21		10	651.26	1.30	0.036	36	-	-	-	-	649.96	-0.40	-0.040	10.08	649.56	130+25.00	649.75	10.08		-0.21	649.96	-	-	-	-	36	-0.036	-1.30	648.66						
F.S.		651.07	-0.21		10	651.28	0.86	0.036	24	650.41	0.43	0.036	12	649.98	-0.40	-0.040	10.08	649.58	130+30.00	649.77	10.08		-0.21	649.98	12	-0.036	-0.43	649.55	24	-0.036	-0.86	648.68				F.S.	
		651.05	-0.22		10	651.26	0.81	0.034	24	650.45	0.40	0.034	12	650.05	-0.40	-0.040	10.08	649.65	130+50.00	649.83	10.08		-0.22	650.05	12	-0.034	-0.40	649.65	24	-0.034	-0.81	648.84						
		651.06	-0.22		10	651.28	0.74	0.031	24	650.54	0.37	0.031	12	650.17	-0.40	-0.040	10.08	649.77	130+75.00	649.95	10.08		-0.22	650.17	12	-0.031	-0.37	649.80	24	-0.031	-0.74	649.06						
		650.94	-0.40	-0.040	10	651.34	0.67	0.028	24	650.67	0.34	0.028	12	650.33	-0.40	-0.040	10.08	649.93	131+00.00	649.93	10.08	-0.040	-0.40	650.33	12	-0.028	-0.34	649.99	24	-0.028	-0.67	649.32						
		651.03	-0.40	-0.040	10	651.43	0.60	0.025	24	650.82	0.30	0.025	12	650.52	-0.40	-0.040	10.08	650.12	131+25.00	650.12	10.08	-0.040	-0.40	650.52	12	-0.025	-0.30	650.22	24	-0.025	-0.60	649.61						
P.T.		651.08	-0.40	-0.040	10	651.48	0.58	0.024	24	650.91	0.29	0.024	12	650.62	-0.40	-0.040	10.08	650.22	131+35.36	650.22	10.08	-0.040	-0.40	650.62	12	-0.024	-0.29	650.33	24	-0.024	-0.58	649.76				P.T.	
		651.15	-0.40	-0.040	10	651.55	0.54	0.022	24	651.02	0.27	0.022	12	650.75	-0.40	-0.040	10.08	650.35	131+50.00	650.35	10.08	-0.040	-0.40	650.75	12	-0.022	-0.27	650.48	24	-0.022	-0.54	649.95						
		651.32	-0.40	-0.040	10	651.72	0.47	0.019	24	651.25	0.23	0.019	12	651.02	-0.40	-0.040	10.08	650.62	131+75.00	650.62	10.08	-0.040	-0.40	651.02	12	-0.019	-0.23	650.79	24	-0.019	-0.47	650.32						
		651.50	-0.40	-0.040	10	651.90	0.40	0.017	24	651.50	0.20	0.017	12	651.30	-0.40	-0.040	10.08	650.90	132+00.00	650.90	10.08	-0.040	-0.40	651.30	12	-0.017	-0.20	651.10	24	-0.017	-0.40	650.70						
R.C.		651.54	-0.40	-0.040	10	651.94	0.38	0.016	24	651.55	0.19	0.016	12	651.36	-0.40	-0.040	10.08	650.96	132+05.00	650.96	10.08	-0.040	-0.40	651.36	12	-0.016	-0.19	651.17	24	-0.016	-0.38	650.78				R.C.	
		651.68	-0.40	-0.040	10	652.08	0.30	0.012	24	651.78	0.19	0.016	12	651.59	-0.40	-0.040	10.08	651.19	132+25.00	651.19	10.08	-0.040	-0.40	651.59	12	-0.009	-0.11	651.48	24	-0.016	-0.38	651.10						
		651.85	-0.40	-0.040	10	652.25	0.19	0.008	24	652.06	0.19	0.016	12	651.87	-0.40	-0.040	10.08	651.47	132+50.00	651.47	10.08	-0.040	-0.40	651.87	12	0.000	0.00	651.87	24	-0.016	-0.38	651.49				½ FLAT	
		652.04	-0.40	-0.040	10	652.44	0.09	0.004	24	652.35	0.19	0.016	12	652.16	-0.40	-0.040	10.08	651.76	132+75.00	651.76	10.08	-0.040	-0.40	652.16	12	0.009	0.11	652.27	24	-0.016	-0.38	651.88						
½ FLAT		652.17	-0.40	-0.040	10	652.57	0.00	0.000	24	652.57	0.19	0.016	12	652.38	-0.40	-0.040	10.08	651.98	132+95.00	651.98	10.08	-0.040	-0.40	652.38	12	0.016	0.19	652.57	24	-0.016	-0.38	652.19				N.C.	
		652.21	-0.40	-0.040	10	652.61	-0.02	-0.001	24	652.63	0.19	0.016	12	652.44	-0.40	-0.040	10.08	652.04	133+00.00	652.04	10.08	-0.040	-0.40	652.44	12	0.016	0.19	652.63	24	-0.016	-0.38	652.25						
		652.38	-0.40	-0.040	10	652.78	-0.13	-0.005	24	652.91	0.19	0.016	12	652.72	-0.40	-0.040	10.08	652.32	133+25.00	652.32	10.08	-0.040	-0.40	652.72	12	0.016	0.19	652.91	24	-0.016	-0.38	652.53						
		652.57	-0.40	-0.040	10	652.97	-0.23	-0.010	24	653.20	0.19	0.016	12	653.01	-0.40	-0.040	10.08	652.61	133+50.00	652.61	10.08	-0.040	-0.40	653.01	12	0.016	0.19	653.20	24	-0.016	-0.38	652.82						
		652.74	-0.40	-0.040	10	653.14	-0.34	-0.014	24	653.48	0.19	0.016	12	653.29	-0.40	-0.040	10.08	652.89	133+75.00	652.89	10.08	-0.040	-0.40	653.29	12	0.016	0.19	653.48	24	-0.016	-0.38	653.10						
N.C.		652.81	-0.40	-0.040	10	653.21	-0.38	-0.016	24	653.59	0.19	0.016	12	653.40	-0.40	-0.040	10.08	653.00	133+85.00	653.00	10.08	-0.040	-0.40	653.40	12	0.016	0.19	653.59	24	-0.016	-0.38	653.21						

AREA OF RAMP TERMINAL SEE GORE DETAILS FOR GORE, RAMP, EOP, AND SHOULDER ELEVATION

AREA OF RAMP TERMINAL SEE GORE DETAILS FOR GORE, RAMP, EOP, AND SHOULDER ELEVATION

238 : 1

238 : 1

N.C. = NORMAL CROWN R.C. = REVERSE CROWN P.C. = POINT OF CURVATURE F.S. = FULL SUPER H.S. = HIGH SIDE

Preliminary Plans For Reference Only

SUPERELEVATION TABLE
I.R. 77 CURVE 2

CUY-77-11.41 - PART 1

MODEL: Sheet-4 PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:56:50 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GE001.dgn

DESIGN AGENCY HNTB
DESIGNER AS
REVIEWER KKP 03/31/22
PROJECT ID 105743
SHEET P.645 TOTAL P.1269

SUPERELEVATION TABLE - CURVE 3

REMARKS	P.I. STATION 144+13.27 — LEFT SIDE (SOUTHBOUND)																	CENTERLINE CONTROL	00°45'00" RT — RIGHT SIDE (NORTHBOUND)																	REMARKS
	TRANSITION RATE	EOS ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EOP ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	CROWN ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	PGL ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EOS ELEVATION	STATION	EOS ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	PGL ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	CROWN ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	EOP ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	EOS ELEVATION	TRANSITION RATE	
N.C.		658.72	-0.59	-0.040	10	659.12	-0.19	-0.016	24	659.50	0.19	0.016	12	659.31	-0.40	-0.040	10.08	658.91	139+05.00	658.91	10.08	-0.040	-0.40	659.31	12	0.016	0.19	659.50	24	-0.016	-0.38	659.12	10	-0.040	-0.40	658.72		
		659.02	-0.51	-0.040	10	659.42	-0.11	-0.012	24	659.72	0.19	0.016	12	659.53	-0.40	-0.040	10.08	659.13	139+25.00	659.22	10.08	-0.031	-0.31	659.53	12	0.016	0.19	659.72	24	-0.016	-0.38	659.34	10	-0.040	-0.40	658.94		
		659.42	-0.40	-0.040	10	659.82	0.00	-0.008	24	660.01	0.19	0.016	12	659.82	-0.40	-0.040	10.08	659.42	139+50.00	659.62	10.08	-0.020	-0.20	659.82	12	0.016	0.19	660.01	24	-0.016	-0.38	659.63	10	-0.040	-0.40	659.23		
		659.82	-0.29	-0.040	10	660.22	0.11	-0.004	24	660.30	0.19	0.016	12	660.11	-0.40	-0.040	10.08	659.71	139+75.00	660.02	10.08	-0.009	-0.09	660.11	12	0.016	0.19	660.30	24	-0.016	-0.38	659.92	10	-0.040	-0.40	659.52		
½ FLAT		660.15	-0.21	-0.040	10	660.55	0.19	0.000	24	660.55	0.19	0.016	12	660.36	-0.40	-0.040	10.08	659.96	139+95.00	660.36	10.08	0.000	0.00	660.36	12	0.016	0.19	660.55	24	-0.016	-0.38	660.17	10	-0.040	-0.40	659.77		N.C.
		660.24	-0.19	-0.040	10	660.64	0.21	0.001	24	660.62	0.19	0.016	12	660.43	-0.40	-0.040	10.08	660.03	140+00.00	660.39	10.08	-0.004	-0.04	660.43	12	0.014	0.17	660.60	24	-0.016	-0.38	660.22	10	-0.040	-0.40	659.82		
		660.68	-0.08	-0.040	10	661.08	0.32	0.005	24	660.95	0.19	0.016	12	660.76	-0.40	-0.040	10.08	660.36	140+25.00	660.49	10.08	-0.027	-0.27	660.76	12	0.005	0.06	660.82	24	-0.016	-0.38	660.44	10	-0.040	-0.40	660.04		
		660.96	-0.02	-0.040	10	661.36	0.38	0.008	24	661.17	0.19	0.016	12	660.98	-0.40	-0.040	10.08	660.58	140+40.00	660.58	10.08	-0.040	-0.40	660.98	12	0.000	0.00	660.98	24	-0.016	-0.38	660.60	10	-0.040	-0.40	660.20		½ FLAT
		661.15	0.03	-0.040	10	661.55	0.43	0.010	24	661.31	0.19	0.016	12	661.12	-0.40	-0.040	10.08	660.72	140+50.00	660.72	10.08	-0.040	-0.40	661.12	12	-0.003	-0.04	661.08	24	-0.016	-0.38	660.69	10	-0.040	-0.40	660.29		
		661.63	0.13	-0.040	10	662.03	0.53	0.014	24	661.69	0.19	0.016	12	661.50	-0.40	-0.040	10.08	661.10	140+75.00	661.10	10.08	-0.040	-0.40	661.50	12	-0.012	-0.15	661.35	24	-0.016	-0.38	660.97	10	-0.040	-0.40	660.57		
P.C./R.C.		661.86	0.18	-0.040	10	662.26	0.58	0.016	24	661.87	0.19	0.016	12	661.68	-0.40	-0.040	10.08	661.28	140+86.20	661.28	10.08	-0.040	-0.40	661.68	12	-0.016	-0.19	661.49	24	-0.016	-0.38	661.10	10	-0.040	-0.40	660.70		P.C./R.C.
		662.13	0.23	-0.040	10	662.53	0.63	0.018	24	662.11	0.21	0.018	12	661.90	-0.40	-0.040	10.08	661.50	141+00.00	661.50	10.08	-0.040	-0.40	661.90	12	-0.018	-0.21	661.69	24	-0.018	-0.42	661.27	10	-0.040	-0.40	660.87		
		662.66	0.34	-0.040	10	663.06	0.74	0.021	24	662.57	0.25	0.021	12	662.32	-0.40	-0.040	10.08	661.92	141+25.00	661.92	10.08	-0.040	-0.40	662.32	12	-0.021	-0.25	662.07	24	-0.021	-0.49	661.58	10	-0.040	-0.40	661.18		
		663.21	0.44	-0.040	10	663.61	0.84	0.023	24	663.05	0.28	0.023	12	662.77	-0.40	-0.040	10.08	662.37	141+50.00	662.37	10.08	-0.040	-0.40	662.77	12	-0.023	-0.28	662.49	24	-0.023	-0.56	661.93	10	-0.040	-0.40	661.53		
F.S.		663.32	0.46	-0.040	10	663.72	0.86	0.024	24	663.15	0.29	0.024	12	662.86	-0.40	-0.040	10.08	662.46	141+55.00	662.46	10.08	-0.040	-0.40	662.86	12	-0.024	-0.29	662.57	24	-0.024	-0.58	662.00	10	-0.040	-0.40	661.60		F.S.
		663.69	0.46	-0.040	10	664.09	0.86	0.024	36	-	-	-	-	663.23	-0.40	-0.040	10.08	662.83	141+75.00	662.83	10.08	-0.040	-0.40	663.23	-	-	-	-	36	-0.024	-0.86	662.37	10	-0.040	-0.40	661.97		
		664.18	0.46	-0.040	10	664.58	0.86	0.024	36	-	-	-	-	663.72	-0.40	-0.040	10.08	663.32	142+00.00	663.32	10.08	-0.040	-0.40	663.72	-	-	-	-	36	-0.024	-0.86	662.86	10	-0.040	-0.40	662.46		
		664.68	0.46	-0.040	10	665.08	0.86	0.024	36	-	-	-	-	664.22	-0.40	-0.040	10.08	663.82	142+25.00	663.82	10.08	-0.040	-0.40	664.22	-	-	-	-	36	-0.024	-0.86	663.36	10	-0.040	-0.40	662.96		
		665.21	0.46	-0.040	10	665.61	0.86	0.024	36	-	-	-	-	664.75	-0.40	-0.040	10.08	664.35	142+50.00	664.35	10.08	-0.040	-0.40	664.75	-	-	-	-	36	-0.024	-0.86	663.89	10	-0.040	-0.40	663.49		
		665.75	0.46	-0.040	10	666.15	0.86	0.024	36	-	-	-	-	665.29	-0.40	-0.040	10.08	664.89	142+75.00	664.89	10.08	-0.040	-0.40	665.29	-	-	-	-	36	-0.024	-0.86	664.43	10	-0.040	-0.40	664.03		
		666.29	0.46	-0.040	10	666.69	0.86	0.024	36	-	-	-	-	665.83	-0.40	-0.040	10.08	665.43	143+00.00	665.43	10.08	-0.040	-0.40	665.83	-	-	-	-	36	-0.024	-0.86	664.97	10	-0.040	-0.40	664.57		
		666.83	0.46	-0.040	10	667.23	0.86	0.024	36	-	-	-	-	666.37	-0.40	-0.040	10.08	665.97	143+25.00	665.97	10.08	-0.040	-0.40	666.37	-	-	-	-	36	-0.024	-0.86	665.51	10	-0.040	-0.40	665.11		
		667.37	0.46	-0.040	10	667.77	0.86	0.024	36	-	-	-	-	666.91	-0.40	-0.040	10.08	666.51	143+50.00	666.51	10.08	-0.040	-0.40	666.91	-	-	-	-	36	-0.024	-0.86	666.05	10	-0.040	-0.40	665.65		
		667.91	0.46	-0.040	10	668.31	0.86	0.024	36	-	-	-	-	667.45	-0.40	-0.040	10.08	667.05	143+75.00	667.05	10.08	-0.040	-0.40	667.45	-	-	-	-	36	-0.024	-0.86	666.59	10	-0.040	-0.40	666.19		
		668.45	0.46	-0.040	10	668.85	0.86	0.024	36	-	-	-	-	667.99	-0.40	-0.040	10.08	667.59	144+00.00	667.59	10.08	-0.040	-0.40	667.99	-	-	-	-	36	-0.024	-0.86	667.13	10	-0.040	-0.40	666.73		
		668.98	0.46	-0.040	10	669.38	0.86	0.024	36	-	-	-	-	668.52	-0.40	-0.040	10.08	668.12	144+25.00	668.12	10.08	-0.040	-0.40	668.52	-	-	-	-	36	-0.024	-0.86	667.66	10	-0.040	-0.40	667.26		
		669.52	0.46	-0.040	10	669.92	0.86	0.024	36	-	-	-	-	669.06	-0.40	-0.040	10.08	668.66	144+50.00	668.66	10.08	-0.040	-0.40	669.06	-	-	-	-	36	-0.024	-0.86	668.20	10	-0.040	-0.40	667.80		
		670.06	0.46	-0.040	10	670.46	0.86	0.024	36	-	-	-	-	669.60	-0.40	-0.040	10.08	669.20	144+75.00	669.20	10.08	-0.040	-0.40	669.60	-	-	-	-	36	-0.024	-0.86	668.74	10	-0.040	-0.40	668.34		
		670.60	0.46	-0.040	10	671.00	0.86	0.024	36	-	-	-	-	670.14	-0.40	-0.040	10.08	669.74	145+00.00	669.74	10.08	-0.040	-0.40	670.14	-	-	-	-	36	-0.024	-0.86	669.28	10	-0.040	-0.40	668.88		
		671.14	0.46	-0.040	10	671.54	0.86	0.024	36	-	-	-	-	670.68	-0.40	-0.040	10.08	670.28	145+25.00	670.28	10.08	-0.040	-0.40	670.68	-	-	-	-	36	-0.024	-0.86	669.82	10	-0.040	-0.40	669.42		
		671.68	0.46	-0.040	10	672.08	0.86	0.024	36	-	-	-	-	671.22	-0.40	-0.040	10.08	670.82	145+50.00	670.82	10.08	-0.040	-0.40	671.22	-	-	-	-	36	-0.024	-0.86	670.36	10	-0.040	-0.40	669.96		
		672.22	0.46	-0.040	10	672.62	0.86	0.024	36	-	-	-	-	671.76	-0.40	-0.040	10.08	671.36	145+75.00	671.36	10.08	-0.040	-0.40	671.76	-	-	-	-	36	-0.024	-0.86	670.90	10	-0.040	-0.40	670.50		
		672.76	0.46	-0.040	10	673.16	0.86	0.024	36	-	-	-	-	672.30	-0.40	-0.040	10.08	671.90	146+00.00	671.90	10.08	-0.040	-0.40	672.30	-	-	-	-	36	-0.024	-0.86	671.44	10	-0.040	-0.40	671.04		
		673.30	0.46	-0.040	10	673.70	0.86	0.024	36	-	-	-	-	672.84	-0.40	-0.040	10.08	672.44	146+25.00	672.44	10.08	-0.040	-0.40	672.84	-	-	-	-	36	-0.024	-0.86	671.98	10	-0.040	-0.40	671.58		
		673.84	0.46	-0.040	10	674.24	0.86	0.024	36	-	-	-	-	673.38	-0.40	-0.040	10.08	672.98	146+50.00	672.98	10.08	-0.040	-0.40	673.38	-	-	-	-	36	-0.024	-0.86	672.52	10	-0.040	-0.40	672.12		
F.S.		674.27	0.46	-0.040	10	674.67	0.86	0.024	24	674.10	0.29	0.024	12	673.81	-0.40	-0.040	10.08	673.41	146+70.00	673.41	10.08	-0.040	-0.40	673.81	12	-0.024	-0.29	673.52	24	-0.024	-0.58	672.95	10	-0.040	-0.40	672.55		F.S.
		674.35	0.44	-0.040	10	674.75	0.84	0.023	24	674.19	0.28	0.023	12	673.91	-0.40	-0.040	10.08	673.51	146+75.00	673.51	10.08	-0.040	-0.40	673.91	12	-0.023	-0.28	673.63	24	-0.023	-0.56	673.07	10	-0.040	-0.40	672.67		
		674.79	0.34	-0.040	10	675.19	0.74	0.021	24	674.70	0.25	0.021	12	674.45	-0.40	-0.040	10.08	674.05	147+00.00	674.05	10.08	-0.040	-0.40	674.45	12	-0.021	-0.25	674.20	24	-0.021	-0.49	673.71	10	-0.040	-0.40	673.31		
		675.23	0.24	-0.040	10	675.63	0.64	0.018	24	675.20	0.21	0.018	12	674.99	-0.40	-0.040	10.08	674.59	147+25.00	674.59	10.08	-0.040	-0.40	674.99	12	-0.018	-0.21	674.78	24	-0.018	-0.43	674.35	10	-0.040	-0.40	673.95		
P.T./R.C.		675.49	0.18	-0.040	10	675.89	0.58	0.016	24	675.50	0.19	0.016	12	675.31	-0.40	-0.040	10.08	674.91	147+39.94	674.91	10.08	-0.040	-0.40	675.31	12	-0.016	-0.19	675.12	24	-0.016	-0.38	674.73	10	-0.040	-0.40	674.33		P.T./R.C.
		675.66	0.13	-0.040	10	676.06	0.53	0.014	24	675.72	0.19	0.016	12	675.53	-0.40	-0.040	10.08	675.13	147+50.00	675.13	10.08	-0.040	-0.40	675.53	12	-0.012	-0.15	675.38	24	-0.016	-0.38	675.00	10	-0.040	-0.40	674.60		
		676.10	0.03	-0.040	10	676.50	0.43	0.010	24	676.26	0.19	0.016	12	676.07	-0.40	-0.040	10.08	675.67	147+75.00	675.67	10.08	-0.040	-0.40	676.07	12	-0.004	-0.04	676.03	24	-0.016	-0.38	675.64	10	-0.040	-0.40	675.24		
		676.27	-0.02	-0.040	10	676.67	0.38	0.008	24	676.48	0.19	0.016	12	676.29	-0.40	-0.040	10.08	675.89	147+85.00	675.89	10.08	-0.040	-0.40	676.29	12	0.000	0.00	676.29	24	-0.016	-0.38	675.91	10	-0.040	-0.40	675.51		½ FLAT
		676.53	-0.08	-0.040	10	676.93	0.32	0.005	24	676.80	0.19	0.016	12	676.61	-0.40	-0.040	10.08	676.21	148+00.00	676.21	10.08	-0.040	-0.40	676.61	12	0.005	0.06	676.67	24	-0.016	-0.38	676.29	10	-0.040	-0.40	675.89		
		676.96	-0.19	-0.040	10	677.36	0.21	0.001	24	677.34	0.19	0.016	12	677.15	-0.40	-0.040	10.08	676.75	148+25.00	676.75	10.08	-0.040	-0.40	677.15	12	0.014	0.17	677.32	24	-0.016	-0.38	676.94	10	-0.040	-0.40	676.54		
½ FLAT		677.05	-0.21	-0.040	10	677.45	0.19	0.000	24	677.45	0.19	0.016	12	677.26	-0.40	-0.040	10.08	676.86	148+30.00	676.86	10.08	-0.040	-0.40	677.26	12	0.016	0.19	677.45	24	-0.016	-0.38	677.07	10	-0.040	-0.40	676.67		N.C.
		677.40	-0.29	-0.040	10	677.80	0.11	-0.004	24	677.88	0.19	0.016	12	677.69	-0.40	-0.040	10.08	677.29	148+50.00	677.29	10.08	-0.040	-0.40	677.69	12	0.016	0.19	677.88	24	-0.016	-0.38	677.50	10	-0.040	-0.40	677.10		
		677.83	-0.40	-0.040	10	678.23	0.00	-0.008	24	678.42	0.19	0.016	12	678.23	-0.40	-0.040	10.08	677.83	148+75.00	677.83	10.08	-0.040	-0.40	678.23	12	0.016	0.19	678.42	24	-0.016	-0.38	678.04	10	-0.040	-0.40	677.64		
		678.24	-0.51	-0.040	10	678.64	-0.11	-0.012	24	678.94	0.19	0.016	12	678.75	-0.40	-0.040	10.08	678.35	149+00.00	678.35	10.08	-0.040	-0.40	678.75	12	0.016	0.19	678.94	24	-0.016	-0.38	678.56	10	-0.040	-0.40	678.16		
N.C.		678.57	-0.59	-0.040	10	678.97	-0.19	-0.016	24	679.35	0.19	0.016	12	679.16	-0.40	-0.040	10.08	678.76	149+20.00	678.76	10.08	-0.040	-0.40	679.16	12	0.016	0.19	679.35	24	-0.016	-0.38	678.97	10	-0.040	-0.40	678.57		

237 : 1 (TRANSITION RATE)

237 : 1 (TRANSITION RATE)

238 : 1 (TRANSITION RATE)

238 : 1 (TRANSITION RATE)

N.C. = NORMAL CROWN R.C. = REVERSE CROWN P.C. = POINT OF CURVATURE F.S. = FULL SUPER H.S. = HIGH SIDE

Preliminary Plans Not for Reference Only

SUPERELEVATION TABLE
I.R. 77 CURVE 3

DESIGN AGENCY
HNTB

DESIGNER ANC
REVIEWER KKP 03/31/22
PROJECT ID 105743
SHEET P.646 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Curve 3 Boundary-2 PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:57:06 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GE004.dgn

SUPERELEVATION TABLE - CURVE 4

REMARKS	P.I. STATION 159+82.97 — LEFT SIDE (SOUTHBOUND)																	CENTERLINE CONTROL	1°01'45" LT — RIGHT SIDE (NORTHBOUND)																		REMARKS
	TRANSITION RATE	EOS ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EOP ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	CROWN ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	PGL ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EOS ELEVATION	STATION	EOS ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	PGL ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	CROWN ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	EOP ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	EOS ELEVATION	TRANSITION RATE	
						682.51	-0.38	-0.016	24	682.89	0.19	0.016	12	682.70	-0.40	-0.040	10.08	682.30	151+80.00	682.30	10.08	-0.040	-0.40	682.70	12	0.016	0.19	682.89	24	-0.016	-0.38	682.51							N.C.
						682.65	-0.38	-0.016	24	683.03	0.19	0.016	12	682.84	-0.40	-0.040	10.08	682.44	152+00.00	682.44	10.08	-0.040	-0.40	682.84	12	0.016	0.19	683.03	24	-0.012	-0.29	682.74							
						682.80	-0.38	-0.016	24	683.18	0.19	0.016	12	682.99	-0.40	-0.040	10.08	682.59	152+25.00	682.59	10.08	-0.040	-0.40	682.99	12	0.016	0.19	683.18	24	-0.008	-0.19	682.99							
						682.92	-0.38	-0.016	24	683.30	0.19	0.016	12	683.11	-0.40	-0.040	10.08	682.71	152+50.00	682.71	10.08	-0.040	-0.40	683.11	12	0.016	0.19	683.30	24	-0.004	-0.10	683.20							
N.C.						683.00	-0.38	-0.016	24	683.38	0.19	0.016	12	683.19	-0.40	-0.040	10.08	682.79	152+70.00	682.79	10.08	-0.040	-0.40	683.19	12	0.016	0.19	683.38	24	0.000	0.00	683.38							½ FLAT
						682.99	-0.38	-0.016	24	683.37	0.17	0.014	12	683.20	-0.40	-0.040	10.08	682.80	152+75.00	682.80	10.08	-0.040	-0.40	683.20	12	0.016	0.19	683.39	24	0.001	0.02	683.41							
						682.95	-0.38	-0.016	24	683.33	0.06	0.005	12	683.27	-0.40	-0.040	10.08	682.87	153+00.00	682.87	10.08	-0.040	-0.40	683.27	12	0.016	0.19	683.46	24	0.005	0.12	683.58							
½ FLAT						682.91	-0.38	-0.016	24	683.29	0.00	0.000	12	683.29	-0.40	-0.040	10.08	682.89	153+15.00	682.89	10.08	-0.040	-0.40	683.29	12	0.016	0.19	683.48	24	0.008	0.19	683.67							
						682.87	-0.38	-0.016	24	683.25	-0.05	-0.004	12	683.30	-0.40	-0.040	10.08	682.90	153+25.00	682.90	10.08	-0.040	-0.40	683.30	12	0.016	0.19	683.49	24	0.010	0.24	683.73							
						682.79	-0.38	-0.016	24	683.17	-0.14	-0.012	12	683.31	-0.40	-0.040	10.08	682.91	153+50.00	682.91	10.08	-0.040	-0.40	683.31	12	0.016	0.19	683.50	24	0.014	0.34	683.84							
R.C.						682.73	-0.38	-0.016	24	683.11	-0.19	-0.016	12	683.30	-0.40	-0.040	10.08	682.90	153+60.00	682.90	10.08	-0.040	-0.40	683.30	12	0.016	0.19	683.49	24	0.016	0.38	683.87							R.C.
						682.63	-0.43	-0.018	24	683.06	-0.22	-0.018	12	683.28	-0.40	-0.040	10.08	682.88	153+75.00	682.88	10.08	-0.040	-0.40	683.28	12	0.018	0.22	683.50	24	0.018	0.43	683.93							
						682.48	-0.50	-0.021	24	682.98	-0.25	-0.021	12	683.23	-0.40	-0.040	10.08	682.83	154+00.00	682.83	10.08	-0.040	-0.40	683.23	12	0.021	0.25	683.48	24	0.021	0.50	683.98							
P.C.						682.47	-0.50	-0.021	24	682.97	-0.25	-0.021	12	683.22	-0.40	-0.040	10.08	682.82	154+01.67	682.82	10.08	-0.040	-0.40	683.22	12	0.021	0.25	683.47	24	0.021	0.50	683.97							P.C.
						682.32	-0.55	-0.023	24	682.87	-0.28	-0.023	12	683.15	-0.40	-0.040	10.08	682.75	154+25.00	682.75	10.08	-0.040	-0.40	683.15	12	0.023	0.28	683.43	24	0.023	0.55	683.98							
						682.10	-0.62	-0.026	24	682.72	-0.31	-0.026	12	683.03	-0.40	-0.040	10.08	682.63	154+50.00	682.63	10.08	-0.040	-0.40	683.03	12	0.026	0.31	683.34	24	0.026	0.62	683.96							
						681.84	-0.70	-0.029	24	682.54	-0.35	-0.029	12	682.89	-0.40	-0.040	10.08	682.49	154+75.00	682.49	10.08	-0.040	-0.40	682.89	12	0.029	0.35	683.24	24	0.029	0.70	683.94							
F.S.						681.69	-0.74	-0.031	24	682.43	-0.37	-0.031	12	682.80	-0.22		10.08	682.58	154+90.00	682.40	10.08	-0.040	-0.40	682.80	12	0.031	0.37	683.17	24	0.031	0.74	683.91							F.S.
						681.61	-1.12	-0.031	36	-	-	-	-	682.73	-0.22		10.08	682.51	155+00.00	682.33	10.08	-0.040	-0.40	682.73	-	-	-	-	36	0.031	1.12	683.85							
						681.45	-1.12	-0.031	36	-	-	-	-	682.57	-0.22		10.08	682.35	155+25.00	682.17	10.08	-0.040	-0.40	682.57	-	-	-	-	36	0.031	1.12	683.69							
						681.29	-1.12	-0.031	36	-	-	-	-	682.41	-0.22		10.08	682.19	155+50.00	682.01	10.08	-0.040	-0.40	682.41	-	-	-	-	36	0.031	1.12	683.53							
						681.13	-1.12	-0.031	36	-	-	-	-	682.25	-0.22		10.08	682.03	155+75.00	681.85	10.08	-0.040	-0.40	682.25	-	-	-	-	36	0.031	1.12	683.37							
						680.97	-1.12	-0.031	36	-	-	-	-	682.09	-0.22		10.08	681.87	156+00.00	681.69	10.08	-0.040	-0.40	682.09	-	-	-	-	36	0.031	1.12	683.21							
						680.80	-1.12	-0.031	36	-	-	-	-	681.92	-0.22		10.08	681.70	156+25.00	681.52	10.08	-0.040	-0.40	681.92	-	-	-	-	36	0.031	1.12	683.04							
						680.64	-1.12	-0.031	36	-	-	-	-	681.76	-0.22		10.08	681.54	156+50.00	681.36	10.08	-0.040	-0.40	681.76	-	-	-	-	36	0.031	1.12	682.88							
						680.48	-1.12	-0.031	36	-	-	-	-	681.60	-0.22		10.08	681.38	156+75.00	681.20	10.08	-0.040	-0.40	681.60	-	-	-	-	36	0.031	1.12	682.72							
						680.32	-1.12	-0.031	36	-	-	-	-	681.44	-0.22		10.08	681.22	157+00.00	681.04	10.08	-0.040	-0.40	681.44	-	-	-	-	36	0.031	1.12	682.56							
						680.16	-1.12	-0.031	36	-	-	-	-	681.28	-0.22		10.08	681.06	157+25.00	680.88	10.08	-0.040	-0.40	681.28	-	-	-	-	36	0.031	1.12	682.40							
		679.60	-0.40	-0.040	10	680.00	-1.12	-0.031	36	-	-	-	-	681.12	-0.22		10.08	680.90	157+50.00	680.72	10.08	-0.040	-0.40	681.12	-	-	-	-	36	0.031	1.12	682.24							
		679.44	-0.40	-0.040	10	679.84	-1.12	-0.031	36	-	-	-	-	680.96	-0.22		10.08	680.74	157+75.00	680.56	10.08	-0.040	-0.40	680.96	-	-	-	-	36	0.031	1.12	682.08							
		679.27	-0.40	-0.040	10	679.67	-1.12	-0.031	36	-	-	-	-	680.79	-0.22		10.08	680.57	158+00.00	680.39	10.08	-0.040	-0.40	680.79	-	-	-	-	36	0.031	1.12	681.91							
		679.11	-0.40	-0.040	10	679.51	-1.12	-0.031	36	-	-	-	-	680.63	-0.22		10.08	680.41	158+25.00	680.23	10.08	-0.040	-0.40	680.63	-	-	-	-	36	0.031	1.12	681.75							
		678.95	-0.40	-0.040	10	679.35	-1.12	-0.031	36	-	-	-	-	680.47	-0.22		10.08	680.25	158+50.00	680.07	10.08	-0.040	-0.40	680.47	-	-	-	-	36	0.031	1.12	681.59							
		678.79	-0.40	-0.040	10	679.19	-1.12	-0.031	36	-	-	-	-	680.31	-0.22		10.08	680.09	158+75.00	679.91	10.08	-0.040	-0.40	680.31	-	-	-	-	36	0.031	1.12	681.43							
		678.63	-0.40	-0.040	10	679.03	-1.12	-0.031	36	-	-	-	-	680.15	-0.22		10.08	679.93	159+00.00	679.75	10.08	-0.040	-0.40	680.15	-	-	-	-	36	0.031	1.12	681.27							
		678.47	-0.40	-0.040	10	678.87	-1.12	-0.031	36	-	-	-	-	679.99	-0.22		10.08	679.77	159+25.00	679.59	10.08	-0.040	-0.40	679.99	-	-	-	-	36	0.031	1.12	681.11							
		678.30	-0.40	-0.040	10	678.70	-1.12	-0.031	36	-	-	-	-	679.82	-0.22		10.08	679.60	159+50.00	679.42	10.08	-0.040	-0.40	679.82	-	-	-	-	36	0.031	1.12	680.94							
		678.14	-0.40	-0.040	10	678.54	-1.12	-0.031	36	-	-	-	-	679.66	-0.22		10.08	679.44	159+75.00	679.26	10.08	-0.040	-0.40	679.66	-	-	-	-	36	0.031	1.12	680.78							
		677.98	-0.40	-0.040	10	678.38	-1.12	-0.031	36	-	-	-	-	679.50	-0.22		10.08	679.28	160+00.00	679.10	10.08	-0.040	-0.40	679.50	-	-	-	-	36	0.031	1.12	680.62							
		677.82	-0.40	-0.040	10	678.22	-1.12	-0.031	36	-	-	-	-	679.34	-0.22		10.08	679.12	160+25.00	678.94	10.08	-0.040	-0.40	679.34	-	-	-	-	36	0.031	1.12	680.46							
		677.66	-0.40	-0.040	10	678.06	-1.12	-0.031	36	-	-	-	-	679.18	-0.22		10.08	678.96	160+50.00	678.78	10.08	-0.040	-0.40	679.18	-	-	-	-	36	0.031	1.12	680.30							
		677.50	-0.40	-0.040	10	677.90	-1.12	-0.031	36	-	-	-	-	679.02	-0.22		10.08	678.80	160+75.00	678.62	10.08	-0.040	-0.40	679.02	-	-	-	-	36	0.031	1.12	680.14							
		677.34	-0.40	-0.040	10	677.74	-1.12	-0.031	36	-	-	-	-	678.86	-0.22		10.08	678.64	161+00.00	678.46	10.08	-0.040	-0.40	678.86	-	-	-	-	36	0.031	1.12	679.98							
		677.17	-0.40	-0.040	10	677.57	-1.12	-0.031	36	-	-	-	-	678.69	-0.22		10.08	678.47	161+25.00	678.29	10.08	-0.040	-0.40	678.69	-	-	-	-	36	0.031	1.12	679.81							
		677.01	-0.40	-0.040	10	677.41	-1.12	-0.031	36	-	-	-	-	678.53	-0.22		10.08	678.31	161+50.00	678.13	10.08	-0.040	-0.40	678.53	-	-	-	-	36	0.031	1.12	679.65							
		676.85	-0.40	-0.040	10	677.25	-1.12	-0.031	36	-	-	-	-	678.37	-0.22		10.08	678.15	161+75.00	677.97	10.08	-0.040	-0.40	678.37	-	-	-	-	36	0.031	1.12	679.49	10		-0.22	679.27				
		676.69	-0.40	-0.040	10	677.09	-1.12	-0.031	36	-	-	-	-	678.21	-0.22		10.08	677.99	162+00.00	677.81	10.08	-0.040	-0.40	678.21	-	-	-	-	36	0.031	1.12	679.33	10		-0.22	679.11				
		676.53	-0.40	-0.040	10	676.93	-1.12	-0.031	36	-	-	-	-	678.05	-0.22		10.08	677.83	162+25.00	677.65	10.08	-0.040	-0.40	678.05	-	-	-	-	36	0.031	1.12	679.17	10		-0.22	678.95				
		676.37	-0.40	-0.040	10	676.77	-1.12	-0.031	36	-	-	-	-	677.89	-0.22		10.08	677.67	162+50.00	677.49	10.08	-0.040	-0.40	677.89	-	-	-	-	36	0.031	1.12	679.01	10		-0.22	678.79				
		676.23	-0.40	-0.040	10	676.63	-1.12	-0.031	36	-	-	-	-	677.75	-0.22		10.08	677.53	162+75.00	677.35	10.08	-0.040	-0.40	677.75	-	-	-	-	36	0.031	1.12	678.87	10		-0.22	678.65				
		676.11	-0.40	-0.040	10	676.51	-1.12	-0.031	36	-	-	-	-	677.63	-0.22		10.08	677.41	163+00.00	677.23	10.08	-0.040	-0.40	677.63	-	-	-	-	36	0.031	1.12	678.75	10		-0.22	678.53				
		676.00	-0.40	-0.040	10	676.40	-1.12	-0.031	36	-	-	-	-	677.52	-0.22		10.08	677.30	163+25.00	677.12	10.08	-0.040	-0.40	677.52	-	-	-	-	36	0.031	1.12	678.64	10		-0.22	678.42				
		675.91	-0.40	-0.040	10	676.31	-1.12	-0.031	36	-	-	-	-	677.43	-0.22		10.08	677.21	163+50.00	677.03	10.08	-0.040	-0.40	677.43	-	-	-	-	36	0.031	1.12	678.55	10		-0.22	678.33				
		675.84	-0.40	-0.040	10	676.24	-1.12	-0.031	36	-	-	-	-	677.36	-0.22		10.08	677.14	163+75.00	676.96	10.08	-0.040	-0.40	677.36	-	-	-	-	36	0.031	1.12	678.48	10		-0.22	678.26				
		675.79	-0.40	-0.040	10	676.19	-1.12	-0.031	36	-	-	-	-	677.31	-0.22		10.08	677.09	164+00.00	676.91	10.08	-0.040	-0.40	677.31	-	-	-	-	36	0.031	1.12	678.43	10		-0.22	678.21				
		675.75	-0.40	-0.040	10	676.15	-1.12	-0.031	36	-	-	-	-	677.27	-0.22		10.08	677.05	164+25.00	676.87	10.08	-0.040	-0.40	677.27	-	-	-	-	36	0.031	1.12	678.39	10		-0.22	678.17				
		675.72	-0.40	-0.040	10	676.12	-1.12	-0.031	36	-	-	-	-	677.24	-0.22		10.08	677.02	164+50.00	676.84	10.08	-0.040	-0.40	677.24	-	-	-	-	36	0.031	1.12	678.36	10		-0.22	678.14				
F.S.		675.72	-0.40	-0.040	10	676.12	-0.75	-0.031	24	676.87	-0.37	-0.031	12	677.24	-0.22		10.08	677.02	164+70.00	676.84	10.08	-0.040	-0.40	677.24	12	0.031	0.37	677.61	24	0.031	0.74	678.35	10		-0.22	678.13			F.S.
		675.75	-0.40	-0.040	10	676.15	-0.72	-0.030	24	676.87	-0.37	-0.030	12	677.24	-0.40	-0.040	10.08	676.84	164+75.00	676.84	10.08	-0.040	-0.40	677.24	12	0.030	0.36	677.60	24	0.030	0.72	678.32	10	-0.040	-0.40	677.92			
		675.85	-0.40	-0.040	10	676.25	-0.67	-0.028	24	676.92	-0.33	-0.028	12	677.25	-0.40	-0.040	10.08	676.85	165+00.00	676.85	10.08	-0.040	-0.40	677.25	12	0.028	0.34	677.59	24	0.028	0.67	678.26	10	-0.040	-0.40	677.86			
		675.98	-0.40	-0.040	10	676.38	-0.60	-0.025	24	676.98	-0.30	-0.025	12	677.28	-0.40	-0.040	10.08	676.88	165+25.00	676.88	10.08	-0.040	-0.40	677.28	12	0.025	0.30	677.58	24	0.025	0.60	678.18	10	-0.040	-0.40	677.78			
	238 : 1	676.13	-0.40	-0.040	10	676.53	-0.53	-0.022	24	677.06	-0.26	-0.022	12	677.32	-0.40	-0.040	10.08	676.92	165+50.00	676.92	10.08	-0.040	-0.40	677.32	12	0.022	0.26	677.58	24	0.022	0.53	678.11	10	-0.040	-0.40	677.71			
P.T.		676.20	-0.40	-0.040	10	676.60	-0.50	-0.021	24	677.10	-0.25	-0.021	12	677.35	-0.40	-0.040	10.08	676.95	165+60.07	676.95	10.08	-0.040	-0.40	677.35	12	0.021	0.25	677.60	24	0.021	0.50	678.10	10	-0.040	-0.40	677.70			P.T.
		676.30	-0.40	-0.040	10	676.70	-0.45	-0.019	24	677.15	-0.23	-0.019	12	677.38	-0.40	-0.040	10.08	676.98	165+75.00	676.98	10.08	-0.040	-0.40	677.38	12	0.019	0.23	677.61	24	0.019	0.46	678.07	10	-0.040	-0.40	677.67			
R.C.		676.48	-0.40	-0.040	10	676.88	-0.39	-0.016	24	677.27	-0.19	-0.016	12	677.46	-0.40	-0.040	10.08	677.06	166+00.00	677.06	10.08	-0.040	-0.40	677.46	12	0.016	0.19	677.65	24	0.016	0.38	678.03	10	-0.040	-0.40	677.63			R.C.
		676.69	-0.40	-0.040	10	677.09	-0.38	-0.016	24	677.47	-0.09	-0.007	12	677.56	-0.40	-0.040	10.08	677.16	166+25.00	677.16	10.08	-0.040	-0.40	677.56	12	0.016	0.19	677.75	24	0.012	0.29	678.04	10	-0.040	-0.40	677.64			
½ FLAT		676.87	-0.40	-0.040	10	677.27	-0.38	-0.016	24	677.65	0.00	0.000	12	677.65	-0.40	-0.040	10.08	677.25	166+45.00	677.25	10.08	-0.040	-0.40	677.65	12	0.016	0.19	677.84	24	0.008	0.19	678.03	10	-0.040	-0.40	677.63			
		676.91	-0.40	-0.040	10	677.31	-0.38	-0.016	24	677.69	0.02	0.002	12	677.67	-0.40	-0.040	10.08	677.27	166+50.00	677.27	10.08	-0.040	-0.40	677.67	12	0.016	0.19	677.86	24	0.007	0.17	678.03	10	-0.040	-0.40	677.63			
		677.14	-0.40	-0.040	10	677.54	-0.39	-0.016	24	677.93	0.13	0.011	12	677.80	-0.40	-0.040	10.08	677.40	166+75.00	677.40	10.08	-0.040	-0.40	677.80	12	0.016	0.19	677.99	24	0.003	0.07	678.06	10	-0.040	-0.40	677.66			
N.C.		677.30	-0.40	-0.040	10	677.70	-0.38	-0.016	24	678.08	0.19	0.016	12	677.89	-0.40	-0.040	10.08	677.49	166+90.00	677.49	10.08	-0.040	-0.40	677.89	12	0.016	0.19	678.08	24	0.000	0.00	678.08	10	-0.040	-0.40	677.68		½ FLAT	
		677.36	-0.40	-0.040	10	677.76	-0.38	-0.016	24	678.14	0.19	0.016	12	677.95	-0.40	-0.040	10.08	677.55	167+00.00	677.55	10.08	-0.040	-0.40	677.95	12	0.016	0.19	678.14	24	-0.002	-0.05	678.09	10	-0.040	-0.40	677.69			
		677.52	-0.40	-0.040	10	677.92	-0.38	-0.016	24	678.30	0.19	0.016	12	678.11	-0.40	-0.040	10.08	677.71	167+25.00	677.71	10.08	-0.040	-0.40	678.11	12	0.016	0.19	678.30	24	-0.006	-0.14	678.16	10	-0.040	-0.40	677.76			
		677.69	-0.40	-0.040	10	678.09	-0.38	-0.016	24	678.47	0.19	0.016	12	678.28	-0.40	-0.040	10.08	677.88	167+50.00	677.88	10.08	-0.040	-0.40	678.28	12	0.016	0.19	678.47	24	-0.011	-0.26	678.21	10	-0.040	-0.40	677.81			
		677.87	-0.40	-0.040	10	678.27	-0.38	-0.016	24	678.65	0.19	0.016	12	678.46	-0.40	-0.040	10.08	678.06	167+75.00	678.06	10.08	-0.040	-0.40	678.46	12	0.016	0.19	678.65	24	-0.015	-0.36	678.29	10	-0.040	-0.40	677.89			
		677.90	-0.40	-0.040	10	678.30	-0.38	-0.016	24	678.68	0.19	0.016	12	678.49	-0.40	-0.040	10.08	678.09	167+80.00	678.09	10.08	-0.040	-0.40	678.49	12	0.016	0.19	678.68	24	-0.016	-0.38	678.30	10	-0.040	-0.40	677.90			N.C.

HIGH SIDE SHOULDER WITH ROUNDING. SEE TYPICALS FOR DETAILS ON CROSS-SLOPE

AREA OF RAMP TERMINAL SEE GORE DETAILS FOR GORE, RAMP EOP, AND SHOULDER ELEVATIONS

HIGH SIDE SHOULDER WITH ROUNDING. SEE TYPICALS FOR DETAILS

ARE OF RAMP TERMINAL SEE GORE DETAILS FOR GORE, RAMP EOP, AND SHOULDER ELEVATIONS

238 : 1

236 : 1

237 : 1

N.C. = NORMAL CROWN R.C. = REVERSE CROWN P.C. = POINT OF CURVATURE F.S. = FULL SUPER H.S. = HIGH SIDE

Preliminary Plans - Not For Reference Only

SUPERELEVATION TABLE
I.R. 77 CURVE 4

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
KKP 03/31/22

PROJECT ID
105743

SHEET P.647 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet-5 PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:57:14 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GE001.dgn

SUPERELEVATION TABLE - CURVE 5

REMARKS	P.I. STATION 179+84.25 LEFT SIDE (SOUTHBOUND)																		CENTERLINE CONTROL	1°30'00" LT RIGHT SIDE (NORTHBOUND)																			REMARKS
	TRANSITION RATE	EOS ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EOP ELVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	CROWN ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	PGL ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EOS ELEVATION	STATION	EOS ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	PGL ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	CROWN ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	EOP ELVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	EOS ELEVATION	TRANSITION RATE	
		681.49	-0.59	-0.040	10	681.89	-0.19	-0.016	24	682.27	0.19	0.016	12	682.08	-0.40	-0.040	10.08	681.68	172+95.00	681.68	10.08	-0.040	-0.40	682.08	12	0.016	0.19	682.27	24	-0.016	-0.38	681.89	10	-0.040	-0.40	681.49		N.C.
		681.54	-0.59	-0.040	10	681.94	-0.19	-0.016	24	682.32	0.19	0.016	12	682.13	-0.40	-0.040	10.08	681.73	173+00.00	681.73	10.08	-0.040	-0.40	682.13	12	0.016	0.19	682.32	24	-0.015	-0.36	681.96	10	-0.040	-0.40	681.56		
		681.70	-0.59	-0.040	10	682.10	-0.19	-0.016	24	682.48	0.19	0.016	12	682.29	-0.40	-0.040	10.08	681.89	173+25.00	681.89	10.08	-0.040	-0.40	682.29	12	0.016	0.19	682.48	24	-0.011	-0.26	682.22	10	-0.040	-0.40	681.82		
		681.87	-0.59	-0.040	10	682.27	-0.19	-0.016	24	682.65	0.19	0.016	12	682.46	-0.40	-0.040	10.08	682.06	173+50.00	682.06	10.08	-0.040	-0.40	682.46	12	0.016	0.19	682.65	24	-0.006	-0.14	682.51	10	-0.040	-0.40	682.11		
		682.05	-0.59	-0.040	10	682.45	-0.19	-0.016	24	682.83	0.19	0.016	12	682.64	-0.40	-0.040	10.08	682.24	173+75.00	682.24	10.08	-0.040	-0.40	682.64	12	0.016	0.19	682.83	24	-0.002	-0.05	682.78	10	-0.040	-0.40	682.38		
N.C.		682.12	-0.59	-0.040	10	682.52	-0.19	-0.016	24	682.90	0.19	0.016	12	682.71	-0.40	-0.040	10.08	682.31	173+85.00	682.31	10.08	-0.040	-0.40	682.71	12	0.016	0.19	682.90	24	0.000	0.00	682.90	10	-0.040	-0.40	682.50		½ FLAT
		682.16	-0.65	-0.040	10	682.56	-0.25	-0.016	24	682.94	0.13	0.011	12	682.81	-0.40	-0.040	10.08	682.41	174+00.00	682.41	10.08	-0.040	-0.40	682.81	12	0.016	0.19	683.00	24	0.003	0.07	683.07	10	-0.040	-0.40	682.67		
		682.23	-0.76	-0.040	10	682.63	-0.36	-0.016	24	683.01	0.02	0.002	12	682.99	-0.40	-0.040	10.08	682.59	174+25.00	682.59	10.08	-0.040	-0.40	682.99	12	0.016	0.19	683.18	24	0.007	0.17	683.35	10	-0.040	-0.40	682.95		
½ FLAT		682.24	-0.78	-0.040	10	682.64	-0.38	-0.016	24	683.02	0.00	0.000	12	683.02	-0.40	-0.040	10.08	682.62	174+30.00	682.62	10.08	-0.040	-0.40	683.02	12	0.016	0.19	683.21	24	0.008	0.19	683.40	10	-0.040	-0.40	683.00		
		682.29	-0.86	-0.040	10	682.69	-0.46	-0.016	24	683.07	-0.08	-0.007	12	683.15	-0.40	-0.040	10.08	682.75	174+50.00	682.75	10.08	-0.040	-0.40	683.15	12	0.016	0.19	683.34	24	0.012	0.29	683.63	10	-0.040	-0.40	683.23		
R.C.		682.33	-0.97	-0.040	10	682.73	-0.57	-0.016	24	683.11	-0.19	-0.016	12	683.30	-0.40	-0.040	10.08	682.90	174+75.00	682.90	10.08	-0.040	-0.40	683.30	12	0.016	0.19	683.49	24	0.016	0.39	683.88	10	-0.040	-0.40	683.48		R.C.
		682.34	-1.09	-0.040	10	682.74	-0.69	-0.019	24	683.20	-0.23	-0.019	12	683.43	-0.40	-0.040	10.08	683.03	175+00.00	683.03	10.08	-0.040	-0.40	683.43	12	0.019	0.23	683.66	24	0.019	0.45	684.11	10	-0.040	-0.40	683.71		
		682.35	-1.19	-0.040	10	682.75	-0.79	-0.022	24	683.28	-0.26	-0.022	12	683.54	-0.40	-0.040	10.08	683.14	175+25.00	683.14	10.08	-0.040	-0.40	683.54	12	0.022	0.26	683.80	24	0.022	0.53	684.33	10	-0.040	-0.40	683.93		
		682.35	-1.28	-0.040	10	682.75	-0.88	-0.024	24	683.33	-0.30	-0.025	12	683.63	-0.40	-0.040	10.08	683.23	175+50.00	683.23	10.08	-0.040	-0.40	683.63	12	0.025	0.30	683.93	24	0.025	0.60	684.53	10	-0.040	-0.40	684.13		
P.C.		682.32	-1.38	-0.040	10	682.72	-0.98	-0.027	24	683.37	-0.33	-0.027	12	683.70	-0.40	-0.040	10.08	683.30	175+73.03	683.30	10.08	-0.040	-0.40	683.70	12	0.027	0.33	684.03	24	0.027	0.65	684.68	10	-0.040	-0.40	684.28		P.C.
		682.31	-1.39	-0.040	10	682.71	-0.99	-0.027	24	683.36	-0.34	-0.028	12	683.70	-0.40	-0.040	10.08	683.30	175+75.00	683.30	10.08	-0.040	-0.40	683.70	12	0.028	0.34	684.04	24	0.028	0.67	684.71	10	-0.040	-0.40	684.31		
		682.28	-1.48	-0.040	10	682.68	-1.08	-0.030	24	683.40	-0.36	-0.030	12	683.76	-0.20	-0.020	10.08	683.56	176+00.00	683.36	10.08	-0.040	-0.40	683.76	12	0.030	0.36	684.12	24	0.030	0.72	684.84	10	-0.020	-0.20	684.64		
		682.20	-1.59	-0.040	10	682.60	-1.19	-0.033	24	683.39	-0.40	-0.033	12	683.79	-0.20	-0.020	10.08	683.59	176+25.00	683.39	10.08	-0.040	-0.40	683.79	12	0.033	0.40	684.19	24	0.033	0.79	684.98	10	-0.020	-0.20	684.78		
		682.11	-1.69	-0.040	10	682.51	-1.29	-0.036	24	683.37	-0.43	-0.036	12	683.80	-0.20	-0.020	10.08	683.60	176+50.00	683.40	10.08	-0.040	-0.40	683.80	12	0.036	0.43	684.23	24	0.036	0.87	685.10	10	-0.020	-0.20	684.90		
		681.98	-1.81	-0.040	10	682.38	-1.41	-0.039	24	683.32	-0.47	-0.039	12	683.79	-0.20	-0.020	10.08	683.59	176+75.00	683.39	10.08	-0.040	-0.40	683.79	12	0.039	0.47	684.26	24	0.039	0.93	685.19	10	-0.020	-0.20	684.99		
F.S.		681.91	-1.87	-0.040	10	682.31	-1.47	-0.041	24	683.29	-0.49	-0.041	12	683.78	-0.20	-0.020	10.08	683.58	176+90.00	683.38	10.08	-0.040	-0.40	683.78	12	0.041	0.49	684.27	24	0.041	0.99	685.26	10	-0.020	-0.20	685.06		F.S.
		681.89	-1.88	-0.040	10	682.29	-1.48	-0.041	36	-	-	-	-	683.77	-0.20	-0.020	10.08	683.57	177+00.00	683.37	10.08	-0.040	-0.40	683.77	-	-	-	-	36	0.041	1.48	685.25	10	-0.020	-0.20	685.05		
		681.84	-1.88	-0.040	10	682.24	-1.48	-0.041	36	-	-	-	-	683.72	-0.20	-0.020	10.08	683.52	177+25.00	683.32	10.08	-0.040	-0.40	683.72	-	-	-	-	36	0.041	1.48	685.20	10	-0.020	-0.20	685.00		
		681.78	-1.88	-0.040	10	682.18	-1.48	-0.041	36	-	-	-	-	683.66	-0.20	-0.020	10.08	683.46	177+50.00	683.26	10.08	-0.040	-0.40	683.66	-	-	-	-	36	0.041	1.48	685.14	10	-0.020	-0.20	684.94		
		681.69	-1.88	-0.040	10	682.09	-1.48	-0.041	36	-	-	-	-	683.57	-0.20	-0.020	10.08	683.37	177+75.00	683.17	10.08	-0.040	-0.40	683.57	-	-	-	-	36	0.041	1.48	685.05	10	-0.020	-0.20	684.85		
		681.59	-1.88	-0.040	10	681.99	-1.48	-0.041	36	-	-	-	-	683.47	-0.20	-0.020	10.08	683.27	178+00.00	683.07	10.08	-0.040	-0.40	683.47	-	-	-	-	36	0.041	1.48	684.95	10	-0.020	-0.20	684.75		
		681.46	-1.88	-0.040	10	681.86	-1.48	-0.041	36	-	-	-	-	683.34	-0.20	-0.020	10.08	683.14	178+25.00	682.94	10.08	-0.040	-0.40	683.34	-	-	-	-	36	0.041	1.48	684.82	10	-0.020	-0.20	684.62		
		681.33	-1.88	-0.040	10	681.73	-1.48	-0.041	36	-	-	-	-	683.21	-0.20	-0.020	10.08	683.01	178+50.00	682.81	10.08	-0.040	-0.40	683.21	-	-	-	-	36	0.041	1.48	684.69	10	-0.020	-0.20	684.49		
		681.19	-1.88	-0.040	10	681.59	-1.48	-0.041	36	-	-	-	-	683.07	-0.20	-0.020	10.08	682.87	178+75.00	682.67	10.08	-0.040	-0.40	683.07	-	-	-	-	36	0.041	1.48	684.55	10	-0.020	-0.20	684.35		
		681.05	-1.88	-0.040	10	681.45	-1.48	-0.041	36	-	-	-	-	682.93	-0.20	-0.020	10.08	682.73	179+00.00	682.53	10.08	-0.040	-0.40	682.93	-	-	-	-	36	0.041	1.48	684.41	10	-0.020	-0.20	684.21		
		680.91	-1.88	-0.040	10	681.31	-1.48	-0.041	36	-	-	-	-	682.79	-0.20	-0.020	10.08	682.59	179+25.00	682.39	10.08	-0.040	-0.40	682.79	-	-	-	-	36	0.041	1.48	684.27	10	-0.020	-0.20	684.07		
		680.78	-1.88	-0.040	10	681.18	-1.48	-0.041	36	-	-	-	-	682.66	-0.20	-0.020	10.08	682.46	179+50.00	682.26	10.08	-0.040	-0.40	682.66	-	-	-	-	36	0.041	1.48	684.14	10	-0.020	-0.20	683.94		
		680.64	-1.88	-0.040	10	681.04	-1.48	-0.041	36	-	-	-	-	682.52	-0.20	-0.020	10.08	682.32	179+75.00	682.12	10.08	-0.040	-0.40	682.52	-	-	-	-	36	0.041	1.48	684.00	10	-0.020	-0.20	683.80		
		680.50	-1.88	-0.040	10	680.90	-1.48	-0.041	36	-	-	-	-	682.38	-0.20	-0.020	10.08	682.18	180+00.00	681.98	10.08	-0.040	-0.40	682.38	-	-	-	-	36	0.041	1.48	683.86	10	-0.020	-0.20	683.66		
		680.36	-1.88	-0.040	10	680.76	-1.48	-0.041	36	-	-	-	-	682.24	-0.20	-0.020	10.08	682.04	180+25.00	681.84	10.08	-0.040	-0.40	682.24	-	-	-	-	36	0.041	1.48	683.72	10	-0.020	-0.20	683.52		
		680.22	-1.88	-0.040	10	680.62	-1.48	-0.041	36	-	-	-	-	682.10	-0.20	-0.020	10.08	681.90	180+50.00	681.70	10.08	-0.040	-0.40	682.10	-	-	-	-	36	0.041	1.48	683.58	10	-0.020	-0.20	683.38		
		680.09	-1.88	-0.040	10	680.49	-1.48	-0.041	36	-	-	-	-	681.97	-0.20	-0.020	10.08	681.77	180+75.00	681.57	10.08	-0.040	-0.40	681.97	-	-	-	-	36	0.041	1.48	683.45	10	-0.020	-0.20	683.25		
		679.95	-1.88	-0.040	10	680.35	-1.48	-0.041	36	-	-	-	-	681.83	-0.20	-0.020	10.08	681.63	181+00.00	681.43	10.08	-0.040	-0.40	681.83	-	-	-	-	36	0.041	1.48	683.31	10	-0.020	-0.20	683.11		
		679.81	-1.88	-0.040	10	680.21	-1.48	-0.041	36	-	-	-	-	681.69	-0.20	-0.020	10.08	681.49	181+25.00	681.29	10.08	-0.040	-0.40	681.69	-	-	-	-	36	0.041	1.48	683.17	10	-0.020	-0.20	682.97		
		679.67	-1.88	-0.040	10	680.07	-1.48	-0.041	36	-	-	-	-	681.55	-0.20	-0.020	10.08	681.35	181+50.00	681.15	10.08	-0.040	-0.40	681.55	-	-	-	-	36	0.041	1.48	683.03	10	-0.020	-0.20	682.83		
		679.54	-1.88	-0.040	10	679.94	-1.48	-0.041	36	-	-	-	-	681.42	-0.20	-0.020	10.08	681.22	181+75.00	681.02	10.08	-0.040	-0.40	681.42	-	-	-	-	36	0.041	1.48	682.90	10	-0.020	-0.20	682.70		
		679.40	-1.88	-0.040	10	679.80	-1.48	-0.041	36	-	-	-	-	681.28	-0.20	-0.020	10.08	681.08	182+00.00	680.88	10.08	-0.040	-0.40	681.28	-	-	-	-	36	0.041	1.48	682.76	10	-0.020	-0.20	682.56		
F.S.		679.29	-1.88	-0.040	10	679.69	-1.48	-0.041	24	680.68	-0.49	-0.041	12	681.17	-0.20	-0.020	10.08	680.97	182+20.00	680.77	10.08	-0.040	-0.40	681.17	12	0.041	0.49	681.66	24	0.041	0.99	682.65	10	-0.020	-0.20	682.45		F.S.
		679.30	-1.84	-0.040	10	679.70	-1.44	-0.040	24	680.66	-0.48	-0.040	12	681.14	-0.20	-0.020	10.08	680.94	182+25.00	680.74	10.08	-0.040	-0.40	681.14	12	0.040	0.48	681.62	24	0.040	0.96	682.58	10	-0.020	-0.20	682.38		
		679.27	-1.73	-0.040	10	679.67	-1.33	-0.037	24	680.56	-0.44	-0.037	12	681.00	-0.20	-0.020	10.08	680.80	182+50.00	680.60	10.08	-0.040	-0.40	681.00	12	0.037	0.44	681.44	24	0.037	0.89	682.33	10	-0.020	-0.20	682.13		
		679.25	-1.62	-0.040	10	679.65	-1.22	-0.034	24	680.46	-0.41	-0.034	12	680.87	-0.20	-0.020	10.08	680.67	182+75.00	680.47	10.08	-0.040	-0.40	680.87	12	0.034	0.41	681.28	24	0.034	0.81	682.09	10	-0.020	-0.20	681.89		
		679.21	-1.52	-0.040	10	679.61	-1.12	-0.031	24	680.36	-0.37	-0.031	12	680.73	-0.20	-0.020	10.08	680.53	183+00.00	680.33	10.08	-0.040	-0.40	680.73	12	0.031	0.37	681.10	24	0.031	0.75	681.85	10	-0.020	-0.20	681.65		
		679.15	-1.44	-0.040	10	679.55	-1.04	-0.029	24	680.24	-0.35	-0.029	12	680.59	-0.40	-0.040	10.08	680.19	183+25.00	680.19	10.08	-0.040	-0.40	680.59	12	0.029	0.35	680.94	24	0.029	0.69	681.63	10	-0.040	-0.40	681.23		
		679.11	-1.34	-0.040	10	679.51	-0.94	-0.026	24	680.14	-0.31	-0.026	12	680.45	-0.40	-0.040	10.08	680.05	183+50.00	680.05	10.08	-0.040	-0.40	680.45	12	0.026	0.31	680.76	24	0.026	0.63	681.39	10	-0.040	-0.40	680.99		
		679.09	-1.23	-0.040	10	679.49	-0.83	-0.023	24	680.04	-0.28	-0.023	12	680.32	-0.40	-0.040	10.08	679.92	183+75.00	679.92	10.08	-0.040	-0.40	680.32	12	0.023	0.28	680.60	24	0.023	0.55	681.15	10	-0.040	-0.40	680.75		
#5 P.T.		679.08	-1.14	-0.040	10	679.48	-0.74	-0.021	24	679.97	-0.25	-0.021	12	680.22	-0.40	-0.040	10.08	679.82	183+92.31	679.82	10.08	-0.040	-0.40	680.22	12	0.021	0.25	680.47	24	0.021	0.49	680.96	10	-0.040	-0.40	680.56		#5 P.T.
		679.06	-1.12	-0.040	10	679.46	-0.72	-0.020	24	679.94	-0.24	-0.020	12	680.18	-0.40	-0.040	10.08	679.78	184+00.00	679.78	10.08	-0.040	-0.40	680.18	12	0.020	0.24	680.42	24	0.020	0.48	680.90	10	-0.040	-0.40	680.50		
		679.03	-1.01	-0.040	10	679.43	-0.61	-0.017	24	679.84	-0.20	-0.017	12	680.04	-0.40	-0.040	10.08	679.64	184+25.00	679.64	10.08	-0.040	-0.40	680.04	12	0.017	0.20	680.24	24	0.017	0.41	680.65	10	-0.040	-0.40	680.25		
		679.00	-0.90	-0.040	10	679.40	-0.50	-0.014	24	679.73	-0.17	-0.014	12	679.90	-0.40	-0.040	10.08	679.50	184+50.00	679.50	10.08	-0.040	-0.40	679.90	12	0.014	0.17	680.07	24	0.014	0.33	680.40	10	-0.040	-0.40	680.00		
		678.97	-0.80	-0.040	10	679.37	-0.40	-0.011	24	679.64	-0.13	-0.011	12	679.77	-0.40	-0.040	10.08	679.37	184+75.00	679.37	10.08	-0.040	-0.40	679.77	12	0.011	0.13	679.90	24	0.011	0.27	680.17	10	-0.040	-0.40	679.77		
		678.94	-0.69	-0.040	10	679.34	-0.29	-0.008	24	679.53	-0.10	-0.008	12	679.63	-0.40	-0.040	10.08	679.23	185+00.00	679.23	10.08	-0.040	-0.40	679.63	12	0.008	0.10	679.73	24	0.008	0.19	679.92	10	-0.040	-0.40	679.52		
		678.91	-0.58	-0.040	10	679.31	-0.18	-0.005	24	679.43	-0.06	-0.005	12	679.49	-0.40	-0.040	10.08	679.09	185+25.00	679.09	10.08	-0.040	-0.40	679.49	12	0.005	0.06	679.55	24	0.005	0.12	679.67	10	-0.040	-0.40	679.27		
		678.88	-0.47	-0.040	10	679.28	-0.07	-0.002	24	679.33	-0.02	-0.002	12	679.35	-0.40	-0.040	10.08	678.95	185+50.00	678.95	10.08	-0.040	-0.40	679.35	12	0.002	0.02	679.37	24	0.002	0.05	679.42	10	-0.040	-0.40	679.02		
		678.86	-0.36	-0.040	10	679.26	0.04	0.001	24	679.23	0.01	0.001	12	679.22	-0.40	-0.040	10.08	678.82	185+75.00	678.82	10.08	-0.040	-0.40	679.22	12	-0.001	-0.01	679.21	24	-0.001	-0.03	679.18	10	-0.040	-0.40	678.78		
		678.82	-0.26	-0.040	10	679.22	0.14	0.004	24	679.13	0.05	0.004	12	679.08	-0.40	-0.040	10.08	678.68	186+00.00	678.68	10.08	-0.040	-0.40	679.08	12	-0.004	-0.05	679.03	24	-0.004	-0.09	678.94	10	-0.040	-0.40	678.54		
		678.79	-0.15	-0.040	10	679.19	0.25	0.007	24	679.02	0.08	0.007	12	678.94	-0.40	-0.040	10.08	678.54	186+25.00	678.54	10.08	-0.040	-0.40	678.94	12	-0.007	-0.08	678.86	24	-0.007	-0.17	678.69	10	-0.040	-0.40	678.29		
		678.76	-0.04	-0.040	10	679.16	0.36	0.010	24	678.92	0.12	0.010	12	678.80	-0.40	-0.040	10.08	678.40	186+50.00	678.40	10.08	-0.040	-0.40	678.80	12	-0.010	-0.12	678.68	24	-0.010	-0.24	678.44	10	-0.040	-0.40	678.04		
		678.74	0.07	-0.040	10	679.14	0.47	0.013	24	678.83	0.16	0.013	12	678.67	-0.40	-0.040	10.08	678.27	186+75.00	678.27	10.08	-0.040	-0.40	678.67	12	-0.013	-0.16	678.51	24	-0.013	-0.31	678.20	10	-0.040	-0.40	677.80		
		678.71	0.18	-0.040	10	679.11	0.58	0.016	24	678.72	0.19	0.016	12	678.53	-0.40	-0.040	10.08	678.13	187+00.00	678.13	10.08	-0.040	-0.40	678.53	12	-0.016	-0.19	678.34	24	-0.016	-0.39	677.95	10	-0.040	-0.40	677.55		
		678.67	0.28	-0.040	10	679.07	0.68	0.019	24	678.62	0.23	0.019	12	678.39	-0.40	-0.040	10.08	677.99	187+25.00	677.99	10.08	-0.040	-0.40	678.39	12	-0.019	-0.23	678.16	24	-0.019	-0.45	677.71	10	-0.040	-0.40	677.31		
		678.64	0.39	-0.040	10	679.04	0.79	0.022	24	678.51	0.26	0.022	12	678.25	-0.40	-0.040	10.08	677.85	187+50.00	677.85	10.08	-0.040	-0.40	678.25	12	-0.022	-0.26	677.99	24	-0.022	-0.53	677.46	10	-0.040	-0.40	677.06		
		678.61	0.50	-0.040	10	679.01	0.90	0.025	24	678.41	0.30	0.025	12	678.11	-0.40	-0.040	10.08	677.71	187+75.00	677.71	10.08	-0.040	-0.40	678.11	12	-0.025	-0.30	677.81	24	-0.025	-0.60	677.21	10	-0.040	-0.40	676.81		
		678.55	0.61	-0.040	10	678.95	1.01	0.028	24	678.28	0.34	0.028	12	677.94	-0.40	-0.040	10.08	677.54	188+00.00	677.54	10.08	-0.040	-0.40	677.94	12	-0.028	-0.34	677.60	24	-0.028	-0.67	676.93	10	-0.040	-0.40	676.53		
#6 P.C.		678.49	0.69	-0.040	10	678.89	1.09	0.030	24	678.16	0.36	0.030	12	677.80	-0.18	-0.018	10.08	677.62	188+19.29	677.40	10.08	-0.040	-0.40	677.80	12	-0.030	-0.36	677.44	24	-0.030	-0.73	676.71	10	-0.018	-0.18	676.53		#6 P.C.

N.C. = NORMAL CROWN R.C. = REVERSE CROWN P.C. = POINT OF CURVATURE F.S. = FULL SUPER H.S. = HIGH SIDE

Preliminary Plans Not For Reference Only

SUPERELEVATION TABLE
I.R. 77 CURVE 5

DESIGN AGENCY
HNTB

DESIGNER
ANC

REVIEWER
KKP 03/31/22

PROJECT ID
105743

SHEET P.648 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Curve 5 Boundary-1 PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:57:34 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\W00-Engineering\Roadway\Sheets\105743_GE004.dgn

SUPERELEVATION TABLE - CURVE 6

REMARKS	P.I. STATION 192+18.47 LEFT SIDE (SOUTHBOUND)																	CENTERLINE CONTROL	2°00'00" RT RIGHT SIDE (NORTHBOUND)																				REMARKS
	TRANSITION RATE	EOS ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EOP ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	CROWN ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	PGL ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EOS ELEVATION	STATION	EOS ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	PGL ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	CROWN ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	EOP ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	EOS ELEVATION	TRANSITION RATE	
P.C.	235 : 1	AREA OF RAMP TERMINAL SEE GORE DETAILS FOR GORE, RAMP EOP, AND SHOULDER ELEVATIONS				678.89	0.73	0.030	24	678.16	0.36	0.030	12	677.80	-0.40	-0.040	10.08	677.40	188+19.29	677.40	10.08	-0.040	-0.40	677.80	12	-0.030	-0.36	677.44	24	-0.030	-0.73	676.71	AREA OF RAMP TERMINAL SEE GORE DETAILS FOR GORE, RAMP EOP, AND SHOULDER ELEVATIONS				235 : 1	P.C.
						678.86	0.74	0.031	24	678.12	0.37	0.031	12	677.75	-0.40	-0.040	10.08	677.35	188+25.00	677.53	10.08		-0.22	677.75	12	-0.031	-0.37	677.38	24	-0.031	-0.74	676.64						
						678.77	0.82	0.034	24	677.95	0.41	0.034	12	677.54	-0.40	-0.040	10.08	677.14	188+50.00	677.33	10.08		-0.21	677.54	12	-0.034	-0.41	677.13	24	-0.034	-0.82	676.31						
						678.64	0.89	0.037	24	677.75	0.44	0.037	12	677.31	-0.40	-0.040	10.08	676.91	188+75.00	677.10	10.08		-0.21	677.31	12	-0.037	-0.44	676.87	24	-0.037	-0.89	675.98						
						678.49	0.96	0.040	24	677.53	0.48	0.040	12	677.05	-0.40	-0.040	10.08	676.65	189+00.00	676.85	10.08		-0.20	677.05	12	-0.040	-0.48	676.57	24	-0.040	-0.96	675.61						
						678.32	1.03	0.043	24	677.29	0.52	0.043	12	676.77	-0.43	-0.043	10.08	676.34	189+25.00	676.58	10.08		-0.19	676.77	12	-0.043	-0.52	676.25	24	-0.043	-1.03	675.22						
						678.11	1.10	0.046	24	677.01	0.55	0.046	12	676.46	-0.46	-0.046	10.08	676.00	189+50.00	676.28	10.08		-0.18	676.46	12	-0.046	-0.55	675.91	24	-0.046	-1.10	674.81						
						677.91	1.18	0.049	24	676.73	0.59	0.049	12	676.14	-0.49	-0.049	10.08	675.65	189+75.00	675.96	10.08		-0.18	676.14	12	-0.049	-0.59	675.55	24	-0.049	-1.18	674.37						
F.S.						677.80	1.20	0.050	24	676.60	0.60	0.050	12	676.00	-0.50	-0.050	10.08	675.50	189+85.00	675.83	10.08		-0.17	676.00	12	-0.050	-0.60	675.40	24	-0.050	-1.20	674.20						F.S.
						677.59	1.80	0.050	36	-	-	-	-	675.79	-0.50	-0.050	10.08	675.29	190+00.00	675.62	10.08		-0.17	675.79	-	-	-	-	36	-0.050	-1.80	673.99						
						677.22	1.80	0.050	36	-	-	-	-	675.42	-0.50	-0.050	10.08	674.92	190+25.00	675.25	10.08		-0.17	675.42	-	-	-	-	36	-0.050	-1.80	673.62						
						676.82	1.80	0.050	36	-	-	-	-	675.02	-0.50	-0.050	10.08	674.52	190+50.00	674.85	10.08		-0.17	675.02	-	-	-	-	36	-0.050	-1.80	673.22						
						676.41	1.80	0.050	36	-	-	-	-	674.61	-0.50	-0.050	10.08	674.11	190+75.00	674.44	10.08		-0.17	674.61	-	-	-	-	36	-0.050	-1.80	672.81						
						675.97	1.80	0.050	36	-	-	-	-	674.17	-0.50	-0.050	10.08	673.67	191+00.00	674.00	10.08		-0.17	674.17	-	-	-	-	36	-0.050	-1.80	672.37						
						675.51	1.80	0.050	36	-	-	-	-	673.71	-0.50	-0.050	10.08	673.21	191+25.00	673.54	10.08		-0.17	673.71	-	-	-	-	36	-0.050	-1.80	671.91	10	-0.050	-0.50	671.41		
						675.02	1.80	0.050	36	-	-	-	-	673.22	-0.50	-0.050	10.08	672.72	191+50.00	673.05	10.08		-0.17	673.22	-	-	-	-	36	-0.050	-1.80	671.42	10	-0.050	-0.50	670.92		
						674.51	1.80	0.050	36	-	-	-	-	672.71	-0.50	-0.050	10.08	672.21	191+75.00	672.54	10.08		-0.17	672.71	-	-	-	-	36	-0.050	-1.80	670.91	10	-0.050	-0.50	670.41		
						673.98	1.80	0.050	36	-	-	-	-	672.18	-0.50	-0.050	10.08	671.68	192+00.00	672.01	10.08		-0.17	672.18	-	-	-	-	36	-0.050	-1.80	670.38	10	-0.050	-0.50	669.88		
		673.27	-0.17	HIGH SIDE SHOULDER WITH ROUNDING. SEE TYPICALS FOR DETAILS ON CROSS-SLOPE	10	673.44	1.80	0.050	36	-	-	-	-	671.64	-0.50	-0.050	10.08	671.14	192+25.00	671.47	10.08	HIGH SIDE SHOULDER WITH ROUNDING. SEE TYPICALS FOR DETAILS ON CROSS-SLOPE	-0.17	671.64	-	-	-	-	36	-0.050	-1.80	669.84	10	-0.050	-0.50	669.34		
		672.72	-0.17		10	672.89	1.80	0.050	36	-	-	-	-	671.09	-0.50	-0.050	10.08	670.59	192+50.00	670.92	10.08		-0.17	671.09	-	-	-	-	36	-0.050	-1.80	669.29	10	-0.050	-0.50	668.79		
		672.18	-0.17		10	672.35	1.80	0.050	36	-	-	-	-	670.55	-0.50	-0.050	10.08	670.05	192+75.00	670.38	10.08		-0.17	670.55	-	-	-	-	36	-0.050	-1.80	668.75	10	-0.050	-0.50	668.25		
		671.63	-0.17		10	671.80	1.80	0.050	36	-	-	-	-	670.00	-0.50	-0.050	10.08	669.50	193+00.00	669.83	10.08		-0.17	670.00	-	-	-	-	36	-0.050	-1.80	668.20	10	-0.050	-0.50	667.70		
		671.08	-0.17		10	671.25	1.80	0.050	36	-	-	-	-	669.45	-0.50	-0.050	10.08	668.95	193+25.00	669.28	10.08		-0.17	669.45	-	-	-	-	36	-0.050	-1.80	667.65	10	-0.050	-0.50	667.15		
		670.54	-0.17		10	670.71	1.80	0.050	36	-	-	-	-	668.91	-0.50	-0.050	10.08	668.41	193+50.00	668.74	10.08		-0.17	668.91	-	-	-	-	36	-0.050	-1.80	667.11	10	-0.050	-0.50	666.61		
		669.99	-0.17		10	670.16	1.80	0.050	36	-	-	-	-	668.36	-0.50	-0.050	10.08	667.86	193+75.00	668.19	10.08		-0.17	668.36	-	-	-	-	36	-0.050	-1.80	666.56	10	-0.050	-0.50	666.06		
		669.45	-0.17		10	669.62	1.80	0.050	36	-	-	-	-	667.82	-0.50	-0.050	10.08	667.32	194+00.00	667.65	10.08		-0.17	667.82	-	-	-	-	36	-0.050	-1.80	666.02	10	-0.050	-0.50	665.52		
		668.90	-0.17		10	669.07	1.80	0.050	36	-	-	-	-	667.27	-0.50	-0.050	10.08	666.77	194+25.00	667.10	10.08		-0.17	667.27	-	-	-	-	36	-0.050	-1.80	665.47	10	-0.050	-0.50	664.97		
		668.35	-0.17		10	668.52	1.80	0.050	36	-	-	-	-	666.72	-0.50	-0.050	10.08	666.22	194+50.00	666.55	10.08		-0.17	666.72	-	-	-	-	36	-0.050	-1.80	664.92	10	-0.050	-0.50	664.42		
F.S.		667.92	-0.17		10	668.09	1.20	0.050	24	666.89	0.60	0.050	12	666.29	-0.50	-0.050	10.08	665.79	194+70.00	666.12	10.08		-0.17	666.29	12	-0.050	-0.60	665.69	24	-0.050	-1.20	664.49	10	-0.050	-0.50	663.99		F.S.
		667.78	-0.18		10	667.96	1.18	0.049	24	666.78	0.59	0.049	12	666.19	-0.49	-0.049	10.08	665.70	194+75.00	666.01	10.08		-0.18	666.19	12	-0.049	-0.59	665.60	24	-0.049	-1.18	664.42	10	-0.049	-0.49	663.93		
		667.15	-0.18		10	667.33	1.10	0.046	24	666.23	0.55	0.046	12	665.68	-0.46	-0.046	10.08	665.22	195+00.00	665.50	10.08		-0.18	665.68	12	-0.046	-0.55	665.13	24	-0.046	-1.10	664.03	10	-0.046	-0.46	663.57		
		666.59	-0.19		10	666.78	1.06	0.044	24	665.72	0.53	0.044	12	665.19	-0.44	-0.044	10.08	664.75	195+25.00	665.00	10.08		-0.19	665.19	12	-0.044	-0.53	664.66	24	-0.044	-1.06	663.60	10	-0.044	-0.44	663.16		
		666.00	-0.20		10	666.20	0.98	0.041	24	665.22	0.49	0.041	12	664.73	-0.41	-0.041	10.08	664.32	195+50.00	664.53	10.08		-0.20	664.73	12	-0.041	-0.49	664.24	24	-0.041	-0.98	663.26	10	-0.041	-0.41	662.85		
		665.46	-0.20		10	665.66	0.91	0.038	24	664.75	0.46	0.038	12	664.29	-0.40	-0.040	10.08	663.89	195+75.00	664.09	10.08		-0.20	664.29	12	-0.038	-0.46	663.83	24	-0.038	-0.91	662.92	10	-0.040	-0.40	662.52		
		664.93	-0.21		10	665.14	0.84	0.035	24	664.30	0.42	0.035	12	663.88	-0.40	-0.040	10.08	663.48	196+00.00	663.67	10.08		-0.21	663.88	12	-0.035	-0.42	663.46	24	-0.035	-0.84	662.62	10	-0.040	-0.40	662.22		
P.T.		664.66	-0.22		10	664.88	0.80	0.033	24	664.08	0.40	0.033	12	663.68	-0.40	-0.040	10.08	663.28	196+12.54	663.46	10.08		-0.22	663.68	12	-0.033	-0.40	663.28	24	-0.033	-0.80	662.48	10	-0.040	-0.40	662.08		P.T.
		664.42	-0.22		10	664.64	0.77	0.032	24	663.87	0.38	0.032	12	663.49	-0.40	-0.040	10.08	663.09	196+25.00	663.27	10.08		-0.22	663.49	12	-0.032	-0.38	663.11	24	-0.032	-0.77	662.34	10	-0.037	-0.37	661.97		
		663.77	-0.40	-0.040	10	664.17	0.70	0.029	24	663.47	0.35	0.029	12	663.12	-0.40	-0.040	10.08	662.72	196+50.00	662.72	10.08	-0.040	-0.40	663.12	12	-0.029	-0.35	662.77	24	-0.029	-0.70	662.07	10	-0.030	-0.30	661.77		
	235 : 1	663.31	-0.40	-0.040	10	663.71	0.62	0.026	24	663.09	0.31	0.026	12	662.78	-0.40	-0.040	10.08	662.38	196+75.00	662.38	10.08	-0.040	-0.40	662.78	12	-0.026	-0.31	662.47	24	-0.026	-0.62	661.85	10	-0.023	-0.23	661.62	235 : 1	
		662.89	-0.40	-0.040	10	663.29	0.55	0.023	24	662.74	0.28	0.023	12	662.46	-0.40	-0.040	10.08	662.06	197+00.00	662.06	10.08	-0.040	-0.40	662.46	12	-0.023	-0.28	662.18	24	-0.023	-0.55	661.63	10	-0.016	-0.16	661.47		
		662.49	-0.40	-0.040	10	662.89	0.48	0.020	24	662.41	0.24	0.020	12	662.17	-0.40	-0.040	10.08	661.77	197+25.00	661.77	10.08	-0.040	-0.40	662.17	12	-0.020	-0.24	661.93	24	-0.020	-0.48	661.45						
		662.11	-0.40	-0.040	10	662.51	0.41	0.017	24	662.10	0.20	0.017	12	661.90	-0.40	-0.040	10.08	661.50	197+50.00	661.50	10.08	-0.040	-0.40	661.90	12	-0.017	-0.20	661.70	24	-0.017	-0.41	661.29						
R.C.		661.99	-0.40	-0.040	10	662.39	0.38	0.016	24	662.01	0.19	0.016	12	661.82	-0.40	-0.040	10.08	661.42	197+58.00	661.42	10.08	-0.040	-0.40	661.82	12	-0.016	-0.19	661.63	24	-0.016	-0.38	661.25						R.C.
		661.76	-0.40	-0.040	10	662.16	0.31	0.013	24	661.85	0.19	0.016	12	661.66	-0.40	-0.040	10.08	661.26	197+75.00	661.26	10.08	-0.040	-0.40	661.66	12	-0.010	-0.12	661.54	24	-0.016	-0.38	661.16						
		661.44	-0.40	-0.040	10	661.84	0.22	0.009	24	661.62	0.19	0.016	12	661.43	-0.40	-0.040	10.08	661.03	198+00.00	661.03	10.08	-0.040	-0.40	661.43	12	-0.001	-0.01	661.42	24	-0.016	-0.38	661.04						
		661.39	-0.40	-0.040	10	661.79	0.19	0.008	24	661.60	0.19	0.016	12	661.41	-0.40	-0.040	10.08	661.01	198+03.00	661.01	10.08	-0.040	-0.40	661.41	12	0.000	0.00	661.41	24	-0.016	-0.38	661.03	AREA OF RAMP TERMINAL SEE GORE DETAILS FOR GORE, RAMP EOP, AND SHOULDER ELEVATIONS					½ FLAT
		661.13	-0.40	-0.040	10	661.53	0.10	0.004	24	661.43	0.19	0.016	12	661.24	-0.40	-0.040	10.08	660.84	198+25.00	660.84	10.08	-0.040	-0.40	661.24	12	0.008	0.10	661.34	24	-0.016	-0.38	660.96						
½ FLAT		660.87	-0.40	-0.040	10	661.27	0.00	0.000	24	661.27	0.19	0.016	12	661.08	-0.40	-0.040	10.08	660.68	198+48.00	660.68	10.08	-0.040	-0.40	661.08	12	0.016	0.19	661.27	24	-0.016	-0.38	660.89						N.C.
		660.85	-0.40	-0.040	10	661.25	0.00	0.000	24	661.25	0.19	0.016	12	661.06	-0.40	-0.040	10.08	660.66	198+50.00	660.66	10.08	-0.040	-0.40	661.06	12	0.016	0.19	661.25	24	-0.016	-0.38	660.87						
		660.59	-0.40	-0.040	10	660.99	-0.12	-0.005	24	661.11	0.19	0.016	12	660.92	-0.40	-0.040	10.08	660.52	198+75.00	660.52	10.08	-0.040	-0.40	660.92	12	0.016	0.19	661.11	24	-0.016	-0.38	660.73						
		660.36	-0.40	-0.040	10	660.76	-0.22	-0.009	24	660.98	0.19	0.016	12	660.79	-0.40	-0.040	10.08	660.39	199+00.00	660.39	10.08	-0.040	-0.40	660.79	12	0.016	0.19	660.98	24	-0.016	-0.38	660.60						
		660.14	-0.40	-0.040	10	660.54	-0.34	-0.014	24	660.88	0.19	0.016	12	660.69	-0.40	-0.040	10.08	660.29	199+25.00	660.29	10.08	-0.040	-0.40	660.69	12	0.016	0.19	660.88	24	-0.016	-0.38	660.50						
N.C.		660.06	-0.40	-0.040	10	660.46	-0.38	-0.016	24	660.84	0.19	0.016	12	660.65	-0.40	-0.040	10.08	660.25	199+38.00	660.25	10.08	-0.040	-0.40	660.65	12	0.016	0.19	660.84	24	-0.016	-0.38	660.46						

N.C. = NORMAL CROWN R.C. = REVERSE CROWN P.C. = POINT OF CURVATURE F.S. = FULL SUPER H.S. = HIGH SIDE

Preliminary Plans Not for Reference Only

MODEL: Sheet-6 PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:57:42 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GE001.dgn

CUY-77-11.41 - PART 1

SUPERELEVATION TABLE
I.R. 77 CURVE 6

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER KKP 03/31/22
PROJECT ID 105743
SHEET P.649 TOTAL P.1269

SUPERELEVATION TABLE - CURVE 7

REMARKS	P.I. STATION 218+10.24 LEFT SIDE (SOUTHBOUND)																	CENTERLINE CONTROL	1°00'00" LT RIGHT SIDE (NORTHBOUND)																	REMARKS
	TRANSITION RATE	EOS ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EOP ELVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	CROWN ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	PGL ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EOS ELEVATION	STATION	EOS ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	PGL ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	CROWN ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	EOP ELVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	EOS ELEVATION	TRANSITION RATE	
N.C.		657.06	-0.40	-0.040	10	657.46	-0.38	-0.016	24	657.84	0.19	0.016	12	657.65	-0.36	-0.040	9.13	657.29	211+38.00	657.10	8.08	-0.040	-0.32	657.42	12	0.016	0.19	657.61	24	-0.016	-0.38	657.23	10	-0.040	-0.40	656.83		
		656.84	-0.40	-0.040	10	657.24	-0.38	-0.016	24	657.62	0.18	0.015	12	657.44	-0.36	-0.040	8.94	657.08	211+50.00	656.89	8.08	-0.040	-0.32	657.21	12	0.016	0.19	657.40	24	-0.014	-0.34	657.06	10	-0.040	-0.40	656.66		
		656.32	-0.40	-0.040	10	656.72	-0.38	-0.016	24	657.10	0.13	0.011	12	656.97	-0.34	-0.040	8.56	656.63	211+75.00	656.44	8.08	-0.040	-0.32	656.76	12	0.016	0.19	656.95	24	-0.009	-0.22	656.73	10	-0.040	-0.40	656.33		
		655.80	-0.40	-0.040	10	656.20	-0.38	-0.016	24	656.58	0.10	0.008	12	656.48	-0.33	-0.040	8.17	656.15	212+00.00	655.97	8.08	-0.040	-0.32	656.29	12	0.016	0.19	656.48	24	-0.004	-0.10	656.38	10	-0.040	-0.40	655.98		
½ FLAT		655.28	-0.40	-0.040	10	655.68	-0.38	-0.016	24	656.06	0.06	0.005	12	656.00	-0.32	-0.040	8.08	655.68	212+24.00	655.50	8.08	-0.040	-0.32	655.82	12	0.016	0.19	656.01	24	0.000	0.00	656.01	10	-0.040	-0.40	655.61		N.C.
		655.26	-0.40	-0.040	10	655.66	-0.38	-0.016	24	656.04	0.06	0.005	12	655.98	-0.32	-0.040	8.08	655.66	212+25.00	655.48	8.08	-0.040	-0.32	655.80	12	0.016	0.19	655.99	24	0.000	0.00	655.99	10	-0.040	-0.40	655.59		
		654.69	-0.40	-0.040	10	655.09	-0.38	-0.016	24	655.47	0.02	0.002	12	655.45	-0.32	-0.040	8.08	655.13	212+50.00	654.98	8.08	-0.040	-0.32	655.30	12	0.016	0.19	655.49	24	0.005	0.12	655.61	10	-0.040	-0.40	655.21		
		654.30	-0.40	-0.040	10	654.70	-0.38	-0.016	24	655.08	0.00	0.000	12	655.08	-0.32	-0.040	8.08	654.76	212+67.00	654.65	8.08	-0.040	-0.32	654.97	12	0.016	0.19	655.16	24	0.008	0.19	655.35	10	-0.040	-0.40	654.95		½ FLAT
		654.09	-0.40	-0.040	10	654.49	-0.38	-0.016	24	654.87	-0.04	-0.003	12	654.91	-0.32	-0.040	8.08	654.59	212+75.00	654.49	8.08	-0.040	-0.32	654.81	12	0.016	0.19	655.00	24	0.009	0.23	655.23	10	-0.040	-0.40	654.83		
		653.45	-0.40	-0.040	10	653.85	-0.38	-0.016	24	654.23	-0.14	-0.012	12	654.37	-0.32	-0.040	8.08	654.05	213+00.00	653.99	8.08	-0.040	-0.32	654.31	12	0.016	0.19	654.50	24	0.014	0.34	654.84	10	-0.040	-0.40	654.44		
R.C.		653.20	-0.40	-0.040	10	653.60	-0.38	-0.016	24	653.98	-0.19	-0.016	12	654.17	-0.32	-0.040	8.08	653.85	213+10.00	653.79	8.08	-0.040	-0.32	654.11	12	0.016	0.19	654.30	24	0.016	0.38	654.68	10	-0.040	-0.40	654.28		R.C.
		652.84	-0.40	-0.040	10	653.24	-0.43	-0.018	24	653.67	-0.22	-0.018	12	653.89	-0.32	-0.040	8.08	653.57	213+25.00	653.50	8.08	-0.040	-0.32	653.82	12	0.018	0.22	654.04	24	0.018	0.43	654.47	10	-0.040	-0.40	654.07		
P.C.		652.77	-0.40	-0.040	10	653.17	-0.43	-0.018	24	653.60	-0.22	-0.018	12	653.82	-0.32	-0.040	8.08	653.50	213+28.63	653.43	8.08	-0.040	-0.32	653.75	12	0.018	0.22	653.97	24	0.018	0.43	654.40	10	-0.040	-0.40	654.00		P.C.
		652.33	-0.40	-0.040	10	652.73	-0.48	-0.020	24	653.21	-0.24	-0.020	12	653.45	-0.32	-0.040	8.08	653.13	213+50.00	653.06	8.08	-0.040	-0.32	653.38	12	0.020	0.24	653.62	24	0.020	0.48	654.10	10	-0.040	-0.40	653.70		
		651.83	-0.40	-0.040	10	652.23	-0.55	-0.023	24	652.78	-0.28	-0.023	12	653.06	-0.32	-0.040	8.08	652.74	213+75.00	652.68	8.08	-0.040	-0.32	653.00	12	0.023	0.28	653.28	24	0.023	0.55	653.83	10	-0.040	-0.40	653.43		
		651.40	-0.40	-0.040	10	651.80	-0.62	-0.026	24	652.42	-0.31	-0.026	12	652.73	-0.32	-0.040	8.08	652.41	214+00.00	652.35	8.08	-0.040	-0.32	652.67	12	0.026	0.31	652.98	24	0.026	0.62	653.60	10	-0.040	-0.40	653.20		
F.S.		651.20	-0.40	-0.040	10	651.60	-0.65	-0.027	24	652.25	-0.32	-0.027	12	652.57	-0.32	-0.040	8.08	652.25	214+13.00	652.20	8.08	-0.040	-0.32	652.52	12	0.027	0.32	652.84	24	0.027	0.65	653.49	10	-0.040	-0.40	653.09		F.S.
		651.07	-0.40	-0.040	10	651.47	-0.97	-0.027	36	-	-	-	-	652.44	-0.32	-0.040	8.08	652.12	214+25.00	652.07	8.08	-0.040	-0.32	652.39	-	-	-	-	36	0.027	0.97	653.36	10	-0.040	-0.40	652.96		
		650.84	-0.40	-0.040	10	651.24	-0.97	-0.027	36	-	-	-	-	652.21	-0.32	-0.040	8.08	651.89	214+50.00	651.85	8.08	-0.040	-0.32	652.17	-	-	-	-	36	0.027	0.97	653.14	10	-0.040	-0.40	652.74		
		650.66	-0.40	-0.040	10	651.06	-0.97	-0.027	36	-	-	-	-	652.03	-0.32	-0.040	8.08	651.71	214+75.00	651.68	8.08	-0.040	-0.32	652.00	-	-	-	-	36	0.027	0.97	652.97	10	-0.040	-0.40	652.57		
		650.52	-0.40	-0.040	10	650.92	-0.97	-0.027	36	-	-	-	-	651.89	-0.30	-0.040	7.44	651.59	215+00.00	651.59	7.52	-0.040	-0.30	651.89	-	-	-	-	36	0.027	0.97	652.86	10	-0.040	-0.40	652.46		
		650.44	-0.40	-0.040	10	650.84	-0.97	-0.027	36	-	-	-	-	651.81	-0.27	-0.040	6.76	651.54	215+25.00	651.55	6.92	-0.040	-0.28	651.83	-	-	-	-	36	0.027	0.97	652.80	10	-0.040	-0.40	652.40		
		650.41	-0.40	-0.040	10	650.81	-0.97	-0.027	36	-	-	-	-	651.78	-0.25	-0.040	6.32	651.53	215+50.00	651.55	7.08	-0.040	-0.28	651.83	-	-	-	-	36	0.027	0.97	652.80	10	-0.040	-0.40	652.40		
		650.44	-0.40	-0.040	10	650.84	-0.97	-0.027	36	-	-	-	-	651.81	-0.24	-0.040	5.92	651.57	215+75.00	651.58	7.39	-0.040	-0.30	651.88	-	-	-	-	36	0.027	0.97	652.85	10	-0.040	-0.40	652.45		
		650.51	-0.40	-0.040	10	650.91	-0.97	-0.027	36	-	-	-	-	651.88	-0.22	-0.040	5.52	651.66	216+00.00	651.67	7.69	-0.040	-0.31	651.98	-	-	-	-	36	0.027	0.97	652.95	10	-0.040	-0.40	652.55		
		650.63	-0.40	-0.040	10	651.03	-0.97	-0.027	36	-	-	-	-	652.00	-0.20	-0.040	5.12	651.80	216+25.00	651.82	7.99	-0.040	-0.32	652.14	-	-	-	-	36	0.027	0.97	653.11	10	-0.040	-0.40	652.71		
		650.81	-0.40	-0.040	10	651.21	-0.97	-0.027	36	-	-	-	-	652.18	-0.20	-0.040	4.89	651.98	216+50.00	652.03	8.08	-0.040	-0.32	652.35	-	-	-	-	36	0.027	0.97	653.32	10	-0.040	-0.40	652.92		
		651.03	-0.40	-0.040	10	651.43	-0.97	-0.027	36	-	-	-	-	652.40	-0.19	-0.040	4.80	652.21	216+75.00	652.30	8.08	-0.040	-0.32	652.62	-	-	-	-	36	0.027	0.97	653.59	10	-0.040	-0.40	653.19		
		651.31	-0.40	-0.040	10	651.71	-0.97	-0.027	36	-	-	-	-	652.68	-0.19	-0.040	4.71	652.49	217+00.00	652.62	8.08	-0.040	-0.32	652.94	-	-	-	-	36	0.027	0.97	653.91	10	-0.040	-0.40	653.51		
		651.63	-0.40	-0.040	10	652.03	-0.97	-0.027	36	-	-	-	-	653.00	-0.19	-0.040	4.63	652.81	217+25.00	653.00	8.08	-0.040	-0.32	653.32	-	-	-	-	36	0.027	0.97	654.29	10	-0.040	-0.40	653.89		
		652.01	-0.40	-0.040	10	652.41	-0.97	-0.027	36	-	-	-	-	653.38	-0.18	-0.040	4.54	653.20	217+50.00	653.43	8.08	-0.040	-0.32	653.75	-	-	-	-	36	0.027	0.97	654.72	10	-0.040	-0.40	654.32		
		652.44	-0.40	-0.040	10	652.84	-0.97	-0.027	36	-	-	-	-	653.81	-0.26	-0.040	6.57	653.55	217+75.00	653.92	8.08	-0.040	-0.32	654.24	-	-	-	-	36	0.027	0.97	655.21	10	-0.040	-0.40	654.81		
		652.92	-0.40	-0.040	10	653.32	-0.97	-0.027	36	-	-	-	-	654.29	-0.32	-0.040	8.08	653.97	218+00.00	654.46	8.08	-0.040	-0.32	654.78	-	-	-	-	36	0.027	0.97	655.75	10	-0.040	-0.40	655.35		
		653.45	-0.40	-0.040	10	653.85	-0.97	-0.027	36	-	-	-	-	654.82	-0.32	-0.040	8.08	654.50	218+25.00	655.05	8.08	-0.040	-0.32	655.37	-	-	-	-	36	0.027	0.97	656.34	10	-0.040	-0.40	655.94		
		654.03	-0.40	-0.040	10	654.43	-0.97	-0.027	36	-	-	-	-	655.40	-0.32	-0.040	8.08	655.08	218+50.00	655.70	8.08	-0.040	-0.32	656.02	-	-	-	-	36	0.027	0.97	656.99	10	-0.040	-0.40	656.59		
		654.67	-0.40	-0.040	10	655.07	-0.97	-0.027	36	-	-	-	-	656.04	-0.32	-0.040	8.08	655.72	218+75.00	656.37	8.08	-0.040	-0.32	656.69	-	-	-	-	36	0.027	0.97	657.66	10	-0.040	-0.40	657.26		
		655.35	-0.40	-0.040	10	655.75	-0.97	-0.027	36	-	-	-	-	656.72	-0.32	-0.040	8.08	656.40	219+00.00	657.05	8.08	-0.040	-0.32	657.37	-	-	-	-	36	0.027	0.97	658.34	10	-0.040	-0.40	657.94		
		656.08	-0.40	-0.040	10	656.48	-0.97	-0.027	36	-	-	-	-	657.45	-0.32	-0.040	8.08	657.13	219+25.00	657.72	8.08	-0.040	-0.32	658.04	-	-	-	-	36	0.027	0.97	659.01	10	-0.040	-0.40	658.61		
		656.84	-0.40	-0.040	10	657.24	-0.97	-0.027	36	-	-	-	-	658.21	-0.32	-0.040	8.08	657.89	219+50.00	658.40	8.08	-0.040	-0.32	658.72	-	-	-	-	36	0.027	0.97	659.69	10	-0.040	-0.40	659.29		
		657.60	-0.40	-0.040	10	658.00	-0.97	-0.027	36	-	-	-	-	658.97	-0.32	-0.040	8.08	658.65	219+75.00	659.07	8.08	-0.040	-0.32	659.39	-	-	-	-	36	0.027	0.97	660.36	10	-0.040	-0.40	659.96		
		658.36	-0.40	-0.040	10	658.76	-0.97	-0.027	36	-	-	-	-	659.73	-0.32	-0.040	8.08	659.41	220+00.00	659.75	8.08	-0.040	-0.32	660.07	-	-	-	-	36	0.027	0.97	661.04	10	-0.040	-0.40	660.64		
		659.12	-0.40	-0.040	10	659.52	-0.97	-0.027	36	-	-	-	-	660.49	-0.32	-0.040	8.08	660.17	220+25.00	660.42	8.08	-0.040	-0.32	660.74	-	-	-	-	36	0.027	0.97	661.71	10	-0.040	-0.40	661.31		
		659.88	-0.40	-0.040	10	660.28	-0.97	-0.027	36	-	-	-	-	661.25	-0.32	-0.040	8.08	660.93	220+50.00	661.10	8.08	-0.040	-0.32	661.42	-	-	-	-	36	0.027	0.97	662.39	10	-0.040	-0.40	661.99		
		660.65	-0.40	-0.040	10	661.05	-0.97	-0.027	36	-	-	-	-	662.02	-0.32	-0.040	8.08	661.70	220+75.00	661.77	8.08	-0.040	-0.32	662.09	-	-	-	-	36	0.027	0.97	663.06	10	-0.040	-0.40	662.66		
		660.90	-0.40	-0.040	10	661.30	-0.97	-0.027	36	-	-	-	-	662.27	-0.32	-0.040	8.08	661.95	220+83.50	662.01	8.08	-0.040	-0.32	662.33	-	-	-	-	36	0.027	0.97	663.30	10	-0.040	-0.40	662.90		

242 : 1

N.C. = NORMAL CROWN R.C. = REVERSE CROWN P.C. = POINT OF CURVATURE F.S. = FULL SUPER H.S. = HIGH SIDE

Preliminary Plans Not For Reference Only

SUPERELEVATION TABLE
I.R. 77 CURVE 7

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
KKP 03/31/22

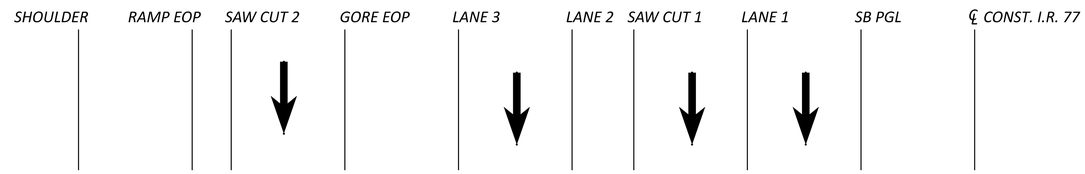
PROJECT ID
105743

SHEET P.650 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet-7 PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:57:43 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GE001.dgn

SHOULDER				RAMP EOP				SAWCUT 2				GORE EOP				LANE 3				LANE 2				SAWCUT 1				PGL SB		CL 77
ELEVATION DIFFERENCE	EXISTING ELEVATION	PROPOSED ELEVATION	OFFSET	ELEVATION DIFFERENCE	EXISTING ELEVATION	PROPOSED ELEVATION	OFFSET	ELEVATION DIFFERENCE	EXISTING ELEVATION	PROPOSED ELEVATION	OFFSET	ELEVATION DIFFERENCE	EXISTING ELEVATION	PROPOSED ELEVATION	OFFSET	ELEVATION DIFFERENCE	EXISTING ELEVATION	PROPOSED ELEVATION	OFFSET	ELEVATION DIFFERENCE	EXISTING ELEVATION	PROPOSED ELEVATION	OFFSET	ELEVATION DIFFERENCE	EXISTING ELEVATION	PROPOSED ELEVATION	OFFSET	PROPOSED ELEVATION	OFFSET	STATION
-	-	-	-	-	-	-	-	0.61	661.35	661.96	-47.50	-	-	-	-	0.61	661.35	661.96	-47.50	0.33	661.82	662.15	-35.50	0.39	661.87	662.26	-28.50	662.15	-11.50	204+03.00
-	-	-	-	-	-	-	-	0.59	661.47	662.06	-47.94	-	-	-	-	0.58	661.49	662.07	-47.50	0.38	661.88	662.26	-35.50	0.37	662.00	662.37	-28.50	662.26	-11.50	204+25.00
-	-	-	-	-	-	-	-	0.57	661.60	662.17	-48.44	-	-	-	-	0.56	661.63	662.19	-47.50	0.41	661.97	662.38	-35.50	0.40	662.09	662.49	-28.50	662.38	-11.50	204+50.00
-	-	-	-	-	-	-	-	0.53	661.72	662.25	-48.94	-	-	-	-	0.51	661.77	662.28	-47.50	0.38	662.09	662.47	-35.50	0.37	662.21	662.58	-28.50	662.47	-11.50	204+75.00
-	-	-	-	-	-	-	-	0.50	661.82	662.32	-49.44	-	-	-	-	0.47	661.88	662.35	-47.50	0.37	662.17	662.54	-35.50	0.33	662.33	662.66	-28.50	662.54	-11.50	205+00.00
-	-	-	-	-	-	-	-	0.46	661.90	662.36	-49.94	-	-	-	-	0.42	661.98	662.40	-47.50	0.33	662.26	662.59	-35.50	0.34	662.36	662.70	-28.50	662.59	-11.50	205+25.00
-	-	-	-	-	-	-	-	0.44	661.95	662.39	-50.44	-	-	-	-	0.39	662.05	662.44	-47.50	0.28	662.35	662.63	-35.50	0.28	662.46	662.74	-28.50	662.63	-11.50	205+50.00
-	-	-	-	-	-	-	-	0.42	661.97	662.39	-50.94	-	-	-	-	0.35	662.09	662.44	-47.50	0.23	662.41	662.64	-35.50	0.21	662.54	662.75	-28.50	662.64	-11.50	205+75.00
-	-	-	-	-	-	-	-	0.40	661.98	662.38	-51.44	-	-	-	-	0.34	662.11	662.45	-47.50	0.20	662.44	662.64	-35.50	0.17	662.58	662.75	-28.50	662.64	-11.50	206+00.00
-	-	-	-	-	-	-	-	0.37	661.97	662.34	-51.94	-	-	-	-	0.29	662.12	662.41	-47.50	0.16	662.44	662.60	-35.50	0.10	662.61	662.71	-28.50	662.60	-11.50	206+25.00
-	-	-	-	-	-	-	-	0.34	661.95	662.29	-52.44	-	-	-	-	0.28	662.09	662.37	-47.50	0.13	662.44	662.57	-35.50	0.09	662.59	662.68	-28.50	662.57	-11.50	206+50.00
-	-	-	-	-	-	-	-	0.30	661.91	662.21	-52.94	-	-	-	-	0.24	662.06	662.30	-47.50	0.12	662.37	662.49	-35.50	0.07	662.53	662.60	-28.50	662.49	-11.50	206+75.00
-	-	-	-	-	-	-	-	0.29	661.84	662.13	-53.44	-	-	-	-	0.23	661.99	662.22	-47.50	0.09	662.32	662.41	-35.50	0.05	662.47	662.52	-28.50	662.41	-11.50	207+00.00
-	-	-	-	-	-	-	-	0.23	661.77	662.00	-53.94	-	-	-	-	0.19	661.91	662.10	-47.50	0.06	662.24	662.30	-35.50	0.05	662.36	662.41	-28.50	662.30	-11.50	207+25.00
-	-	-	-	-	-	-	-	0.25	661.63	661.88	-54.44	-	-	-	-	0.18	661.81	661.99	-47.50	0.05	662.13	662.18	-35.50	0.03	662.26	662.29	-28.50	662.18	-11.50	207+50.00
-	-	-	-	-	-	-	-	0.23	661.48	661.71	-54.93	-	-	-	-	0.14	661.69	661.83	-47.50	0.00	662.02	662.02	-35.50	0.01	662.13	662.14	-28.50	662.02	-11.50	207+75.00
-	-	-	-	-	-	-	-	0.23	661.32	661.55	-55.43	-	-	-	-	0.16	661.52	661.68	-47.50	0.01	661.86	661.87	-35.50	0.05	661.93	661.98	-28.50	661.87	-11.50	208+00.00
-	-	-	-	-	-	-	-	0.20	661.14	661.34	-55.93	-	-	-	-	0.14	661.34	661.48	-47.50	0.06	661.61	661.67	-35.50	0.05	661.74	661.79	-28.50	661.67	-11.50	208+25.00
-	-	-	-	-	-	-	-	0.21	660.93	661.14	-56.43	-	-	-	-	0.14	661.14	661.28	-47.50	0.09	661.38	661.47	-35.50	0.06	661.53	661.59	-28.50	661.47	-11.50	208+50.00
-	-	-	-	-	-	-	-	0.20	660.69	660.89	-56.93	-	-	-	-	0.11	660.94	661.05	-47.50	0.04	661.20	661.24	-35.50	0.02	661.33	661.35	-28.50	661.24	-11.50	208+75.00
-	-	-	-	-	-	-	-	0.22	660.43	660.65	-57.43	-	-	-	-	0.12	660.69	660.81	-47.50	0.01	660.99	661.00	-35.50	-0.01	661.12	661.11	-28.50	661.00	-11.50	209+00.00
-	-	-	-	-	-	-	-	0.21	660.16	660.37	-57.93	-	-	-	-	0.10	660.43	660.53	-47.50	0.09	660.64	660.73	-35.50	0.00	660.84	660.84	-28.50	660.73	-11.50	209+25.00
-	-	-	-	-	-	-	-	0.22	659.86	660.08	-58.43	-	-	-	-	0.12	660.14	660.26	-47.50	0.08	660.37	660.45	-35.50	0.01	660.55	660.56	-28.50	660.45	-11.50	209+50.00
-	-	-	-	-	-	-	-	0.21	659.55	659.76	-58.93	-	-	-	-	0.11	659.84	659.95	-47.50	0.05	660.09	660.14	-35.50	-0.01	660.26	660.25	-28.50	660.14	-11.50	209+75.00
-	-	-	-	-	-	-	-	0.21	659.22	659.43	-59.43	-	-	-	-	0.07	659.55	659.62	-47.50	0.09	659.73	659.82	-35.50	0.08	659.85	659.93	-28.50	659.82	-11.50	210+00.00
-	-	-	-	-	-	-	-	0.22	658.85	659.07	-59.93	-	-	-	-	0.07	659.20	659.27	-47.50	0.06	659.40	659.46	-35.50	-0.03	659.60	659.57	-28.50	659.46	-11.50	210+25.00
-	-	-	-	-	-	-	-	0.22	658.48	658.70	-60.43	-	-	-	-	0.09	658.82	658.91	-47.50	0.08	659.02	659.10	-35.50	0.01	659.21	659.22	-28.50	659.10	-11.50	210+50.00
-	-	-	-	-	-	-	-	0.19	658.11	658.30	-60.93	0.11	658.36	658.47	-50.00	0.09	658.42	658.51	-47.50	0.05	658.65	658.70	-35.50	0.02	658.80	658.82	-28.50	658.71	-11.50	210+75.00
-	-	-	-	-	-	-	-	0.16	657.73	657.89	-61.43	0.09	657.98	658.07	-50.00	0.08	658.04	658.12	-47.12	0.04	658.27	658.31	-35.12	0.00	658.41	658.41	-28.68	658.31	-11.12	211+00.00
-	-	-	-	-	-	-	-	0.16	657.28	657.44	-61.93	0.08	657.55	657.63	-50.00	0.06	657.62	657.68	-46.74	0.05	657.82	657.87	-34.73	0.01	657.95	657.96	-29.09	657.87	-10.73	211+25.00
-	-	-	-	-	-	-	-	0.17	656.82	656.99	-62.43	0.09	657.10	657.19	-50.00	0.07	657.18	657.25	-46.35	0.08	657.36	657.44	-34.35	0.05	657.47	657.52	-29.50	657.44	-10.35	211+50.00
-	-	-	-	-	-	-	-	0.15	656.35	656.50	-62.93	0.08	656.63	656.71	-50.00	0.06	656.71	656.77	-45.97	0.13	656.83	656.96	-33.96	0.11	656.92	657.03	-29.90	656.96	-9.96	211+75.00
-	-	-	-	-	-	-	-	0.18	655.80	655.98	-63.43	0.12	656.08	656.20	-50.02	0.17	656.10	656.27	-45.58	0.23	656.23	656.46	-33.58	0.21	656.31	656.52	-30.10	656.48	-9.58	212+00.00
-	-	-	-	-	-	-	-	0.18	655.68	655.86	-63.53	0.12	655.95	656.07	-50.02	0.25	655.89	656.15	-45.50	0.22	656.12	656.34	-33.50	0.19	656.20	656.39	-30.10	656.37	-9.58	212+05.00
-	-	-	-	-	-	-	-	0.17	655.18	655.35	-63.93	0.12	655.45	655.57	-50.05	0.16	655.49	655.65	-45.50	0.17	655.67	655.84	-33.50	0.15	655.74	655.89	-30.10	655.97	-9.50	212+25.00
-	-	-	-	-	-	-	-	0.16	654.55	654.71	-64.43	0.28	654.66	654.94	-50.12	0.22	654.79	655.01	-45.50	0.14	655.06	655.20	-33.50	0.13	655.13	655.26	-30.10	655.45	-9.50	212+50.00
-	-	-	-	-	-	-	-	0.12	653.92	654.04	-64.93	0.27	654.01	654.28	-50.23	0.20	654.16	654.36	-45.50	0.08	654.47	654.55	-33.50	0.06	654.54	654.60	-30.10	654.91	-9.50	212+75.00
-	-	-	-	-	-	-	-	0.04	653.30	653.34	-65.43	0.21	653.42	653.63	-50.39	0.10	653.61	653.71	-45.50	0.07	653.86	653.93	-33.50	0.04	653.95	653.99	-30.10	654.37	-9.50	213+00.00
-	-	-	-	-	-	-	-	-0.03	652.70	652.67	-65.93	0.21	652.82	653.03	-50.61	0.08	653.03	653.11	-45.50	0.08	653.29	653.37	-33.50	0.08	653.36	653.44	-30.10	653.89	-9.50	213+25.00
-	-	-	-	-	-	-	-	-0.09	652.13	652.04	-66.50	0.19	652.28	652.47	-50.86	0.11	652.45	652.56	-45.50	0.05	652.80	652.85	-33.50	0.03	652.91	652.94	-30.10	653.45	-9.50	213+50.00
0.00	651.29	651.29	-77.10	0.00	651.67	651.67	-67.09	-	-	-	-	0.00	652.03	652.03	-51.09	-0.07	652.16	652.09	-45.50	0.08	652.34	652.42	-33.50	0.12	652.39	652.51	-30.10	653.06	-9.50	213+75.00
0.00	650.83	650.83	-77.38	0.00	651.26	651.26	-67.30	-	-	-	-	0.00	651.63	651.63	-51.30	-0.02	651.77	651.75	-45.50	0.12	651.96	652.08	-33.50	0.14	652.03	652.17	-30.10	652.73	-9.50	214+00.00
0.00	650.48	650.48	-77.63	0.00	650.93	650.93	-67.51	-	-	-	-	0.00	651.31	651.31	-51.51	0.07	651.41	651.48	-45.50	0.19	651.62	651.81	-33.50	0.21	651.69	651.90	-30.10	652.46	-9.50	214+25.00
0.00	650.15	650.15	-77.78	0.00	650.61	650.61	-67.72	-	-	-	-	0.00	651.03	651.03	-51.72	0.06	651.17	651.23	-45.50	0.16	651.40	651.56	-33.50	0.19	651.46	651.65	-30.10	652.21	-9.50	214+50.00
0.00	649.93	649.93	-77.93	0.00	650.37	650.37	-67.94	-	-	-	-	0.00	650.83	650.83	-51.94	0.15	650.93	651.08	-45.50	0.23	651.17	651.40	-33.50	0.25	651.24	651.49	-30.10	652.05	-9.50	214+75.00
0.00	649.77	649.77	-78.09	0.00	650.19	650.19	-68.19	-	-	-	-	0.00	650.68	650.68	-52.19	0.11	650.81	650.92	-45.50	0.18	651.07	651.25	-33.50	0.21	651.13	651.34	-30.10	651.89	-9.50	215+00.00
0.00	649.68	649.68	-78.29	0.00	650.07	650.07	-68.47	-	-	-	-	0.00	650.60	650.60	-52.11	0.16	650.71	650.87	-45.50	0.22	650.97	651.19	-33.50	0.23	651.05	651.28	-30.10	651.84	-9.50	215+25.00
0.00	649.64	649.64	-78.61	0.00	650.02	650.02	-68.79	-	-	-	-	0.00	650.55	650.55	-51.87	0.11	650.70	650.81	-45.50	0.17	650.97	651.14	-33.50	0.17	651.06	651.23	-30.10	651.78	-9.50	215+50.00
0.00	649.65	649.65	-79.02	0.00	650.04	650.04	-69.17	-	-	-	-	0.00	650.56	650.56	-51.70	0.14	650.71	650.85	-45.50	0.19	650.99	651.18	-33.50	0.18	651.09	651.27	-30.10	651.83	-9.50	215+75.00
0.00	649.69	649.69	-79.44	0.00	650.12	650.12	-69.59	-	-	-	-	0.00	650.66	650.66	-51.60	0.12	650.79	650.91	-45.50	0.14	651.09	651.23	-33.50	0.13	651.19	651.32	-30.10	651.88	-9.50	216+00.00
0.00	649.79	649.79	-79.92	0.00	650.24	650.24	-70.07	-	-	-	-	0.00	650.81	650.81	-51.56	0.13	650.91	651.04	-45.50	0.16	651.21	651.37	-33.50	0.14	651.32	651.46	-30.10	652.01	-9.50	216+25.00
0.00	649.95	649.95	-80.51	0.00	650.41	650.41	-70.60	-	-	-	-	0.00	650.99	650.99	-51.59	0.10	651.10	651.20	-45.50	0.13	651.40	651.53	-33.50	0.11	651.51	651.62	-30.10	652.17	-9.50	216+50.00
0.00	650.20	650.20	-81.17	0.00	650.66	650.66	-71.18	-	-	-	-	0.00	651.21	651.21	-51.68	0.09	651.34	651.43	-45.50	0.12	651.64	651.76	-33.50	0.11	651.74	651.85	-30.10	652.41	-9.50	216+75.00
0.00	650.50	650.50	-81.78	0.00	650.97	650.97	-71.82	-	-	-	-	0.00	651.49	651.49	-51.84	0.07	651.63	651.70	-45.50	0.12	651.91	652.03	-33.50	0.11	652.01	652.12	-30.10	652.68	-9.50	217+00.00
0.00	650.85	650.85	-82.37	0.00	651.33	651.33	-72.50	-	-	-	-	0.00	651.84	651.84	-52.07	0.06	651.97	652.03	-45.50	0.12	652.23	652.35	-33.50	0.13	652.32	652.45	-30.10	653.00	-9.50	217+25.00
0.00	651.24	651.24	-83.14	0.00	651.72	651.72	-73.24	-	-	-	-	0.00	652.26	652.26	-52.28	0.04	652.37	652.41	-45.50	0.14	652.59	652.73	-33.50	0.13	652.69	652.82	-30.10	653.38	-9.50	217+50.00
0.00	651.64	651.64	-84.12	0.00	652.12	652.12	-74.09	-	-	-	-	0.00	652.73	652.73	-52.68	0.03	652.81	652.84	-45.50	0.13	653.04	653.17	-33.50	0.13	653.13	653.26	-30.10	653.82	-9.50	217+75.00
0.00	652.04	652.04	-85.20	0.00	652.53	652.53	-75.24	-	-	-	-	0.00	653.21	653.21	-53.37	0.03	653.29	653.32	-45.50	0.15	653.49	653.64	-33.50	0.15	653.58	653.73	-30.10	654.29	-9.50	218+00.00
0.00	652.44	652.44	-86.46	0.00	652.95	652.95	-76.71	-	-	-	-	0.00	653.71	653.71	-54.36	0.06	653.80	653.86	-45.50	0.17	654.02	654.19	-33.50	0.16	654.12	654.28	-30.10	654.83	-9.50	218+25.00
0.00	652.85	652.85	-88.12	0.00	653.37	653.37	-78.49	-	-	-	-	0.00	654.26	654.26	-55.64	0.05	654.38	654.43	-45.50	0.11	654.64	654.75	-33.50	0.12	654.72	654.84	-30.10	655.40	-9.50	218+50.00
0.00	653.26	653.26	-90.26	0.00	653.79	653.79	-80.60	-	-	-	-	0.00	654.85	654.85	-57.22	0.07	655.01	655.08	-45.50	0.12	655.29	655.41	-33.50	0.11	655.39	655.50	-30.10	656.05	-9.50	218+75.00
0.00	653.67	653.67	-92.71	0.00	654.20	654.20	-83.03	-	-	-	-	0.00	655.41	655.41	-59.10	0.08	655.67	655.75	-45.50	0.07	656.00	656.07	-33.50	0.06	656.10	656.16	-30.10	656.72	-9.50	219+00.00
0.00	654.09	654.09	-95.38	0.00	654.61	654.61	-85.78	-	-	-	-	0.00	655.90	655.90	-61.27	0.10	656.38	656.48	-45.50	0.08	656.73	656.81	-33.50	0.07	656.83	656.90	-30.10	657.45	-9.50	219+25.00
0.00	654.54	654.54	-98.26	0.00	655.03	655.03	-88.85	-	-	-	-	0.00	656.32	656.32	-63.73	0.16	657.08	657.24	-45.50	0.08	657.48	657.56	-33.50	0.08	657.58	657.66	-30.10	658.21	-9.50	219+50.00
0.00	655.08	655.08	-101.43	0.00	655.47	655.47	-92.24	-	-	-	-	0.00	656.77	656.77	-66.49	0.18	657.82	658.00	-45.50	0.11	658.22	658.33	-33.50	0.10	658.32	658.42	-30.10	658.97	-9.50	219+75.00
0.00	655.33	655.33	-103.20	0.00	655.69	655.69	-94.08	-	-	-	-	0.00	656.99	656.99	-68.00	0.18	658.20	658.38	-45.50	0.12	658.59	658.71	-33.50	0.10	658.70	658.80	-30.10	659.36	-9.50	219+87.65
BEGIN LANE 3 SHOULDER				0.00	655.72	655.72	-94.30	-	-	-	-	0.00	657.02	657.02	-68.18	0.19	658.24	658.43	-45.50	0.13	658.63	658.76	-33.50	0.10	658.75	658.85	-30.10	659.40	-9.50	219+89.14
				-	-	-	-	-	-	-	-	0.00	657.08	657.08	-68.66	0.19	658.36	658.55	-45.50	0.12	658.75	658.87	-33.50	0.10	658.86	658.96	-30.10	659.52	-9.50	219+92.98
0.35	657.73	658.08	-57.50	-	-	-	-	-	-	-	-	-	-	-	-	0.19	658.37	658.56	-45.50	0.12	658.76	658.88	-33.50	0.10	658.88	658.98	-30.10	659.53	-9.50	219+93.40
0.31	657.97	658.28	-57.50	-	-	-	-	-	-	-	-	-	-	-	-	0.20	658.56	658.76	-45.50	0.12	658.96	659.08	-33.50	0.10	659.08	659.18	-30.10	659.73	-9.50	220+00.00
0.18	658.86	659.04	-57.50	-	-	-	-	-	-	-	-	-	-	-	-	0.12	659.40	659.52	-45.50	0.11	659.74	659.85	-33.50	0.07	659.87	659.94	-30.10	660.49	-9.50	220+25.00
0.08	659.72	659.80	-57.50	-	-	-	-	-	-	-	-	-	-	-	-	0.03	660.25	660.28	-45.50	0.05	660.55	660.60	-33.50	0.02	660.68	660.70	-30.10	661.25	-9.50	220+50.00
0.08	660.48	660.56	-57.50	-	-	-	-	-	-	-	-	-	-	-	-	0.00	661.04	661.04	-45.50	0.02	661.35	661.37	-33.50	-0.02	661.48	661.46	-30.10	662.01	-9.50	220+75.00
0.00	660.72	660.72	-57.50	-	-	-	-	-	-	-	-	-	-	-	-	0.01	661.29	661.30	-45.50	0.02	661.61	661.63	-33.50	-0.02	661.74	661.72	-30.10	662.27	-9.50	220+83.50



Preliminary Plans
For Reference Only

RESURFACING DETAIL TABLE
I.R. 77 SB STA. 204+03.00 TO END

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER KKP 04/25/22
PROJECT ID 105743
SHEET P.651 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Plan 1 PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:57:50 AM USER: kperkins
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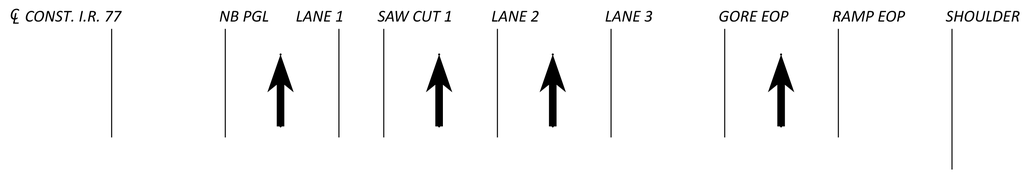
CL 77	PGL NB		SAWCUT 1				LANE 2				LANE 3				GORE EOP				RAMP EOP				SHOULDER			
STATION	OFFSET	PROPOSED ELEVATION	OFFSET	PROPOSED ELEVATION	EXISTING ELEVATION	ELEVATION DIFFERENCE	OFFSET	PROPOSED ELEVATION	EXISTING ELEVATION	ELEVATION DIFFERENCE	OFFSET	PROPOSED ELEVATION	EXISTING ELEVATION	ELEVATION DIFFERENCE	OFFSET	PROPOSED ELEVATION	EXISTING ELEVATION	ELEVATION DIFFERENCE	OFFSET	PROPOSED ELEVATION	EXISTING ELEVATION	ELEVATION DIFFERENCE	OFFSET	PROPOSED ELEVATION	EXISTING ELEVATION	ELEVATION DIFFERENCE
208+08.00	9.50	661.51	42.00	661.37	661.29	0.08	-	-	-	-	45.50	661.31	661.17	0.14	-	-	-	-	-	-	-	-	55.50	660.92	660.81	0.11
208+25.00	9.50	661.37	42.00	661.23	661.28	-0.05	-	-	-	-	45.50	661.18	661.07	0.11	-	-	-	-	-	-	-	-	55.50	660.78	660.70	0.08
208+40.00	9.50	661.25	42.00	661.11	661.27	-0.16	-	-	-	-	45.50	661.05	660.99	0.06	-	-	-	-	45.50	661.05	660.99	0.06	55.50	660.65	660.61	0.04
208+50.00	9.50	661.16	42.00	661.03	661.18	-0.15	-	-	-	-	45.50	660.97	660.94	0.03	-	-	-	-	46.70	660.95	660.89	0.06	56.55	660.55	660.51	0.04
208+75.00	9.50	660.93	42.00	660.79	661.06	-0.27	-	-	-	-	45.50	660.73	660.91	-0.18	-	-	-	-	49.70	660.65	660.64	0.01	59.18	660.27	660.29	-0.02
209+00.00	9.50	660.69	42.00	660.55	660.83	-0.28	-	-	-	-	45.50	660.50	660.68	-0.18	-	-	-	-	52.70	660.35	660.33	0.02	61.80	659.99	660.01	-0.02
209+25.00	9.50	660.41	42.00	660.28	660.57	-0.29	-	-	-	-	45.50	660.22	660.41	-0.19	-	-	-	-	55.70	660.01	659.98	0.03	64.43	659.64	659.68	-0.04
209+40.00	9.50	660.25	42.00	660.11	660.39	-0.28	-	-	-	-	45.50	660.06	660.27	-0.21	-	-	-	-	57.50	659.80	659.75	0.05	66.00	659.43	659.45	-0.02
209+50.00	9.50	660.14	42.00	660.00	660.25	-0.25	-	-	-	-	45.50	659.95	660.11	-0.16	-	-	-	-	57.50	659.71	659.62	0.09	66.00	659.37	659.31	0.06
209+56.00	9.50	660.07	30.00	660.13	660.45	-0.33	33.50		660.38	660.38	45.50	659.88	660.06	-0.19	-	-	-	-	57.50	659.64	659.55	0.09	66.00	659.30	659.24	0.06
209+75.00	9.50	659.84	30.00	659.89	660.21	-0.32	33.50	660.16	659.84	-0.32	45.50	659.66	659.84	-0.18	-	-	-	-	57.50	659.42	659.29	0.13	66.00	659.08	658.95	0.13
210+00.00	9.50	659.52	30.00	659.59	659.91	-0.32	33.50	659.86	659.54	-0.32	45.50	659.37	659.52	-0.15	-	-	-	-	57.50	659.13	658.94	0.19	66.00	658.79	658.59	0.20
210+25.00	9.50	659.17	30.00	659.27	659.56	-0.29	33.50	659.50	659.22	-0.28	45.50	659.08	659.15	-0.07	-	-	-	-	57.50	658.84	658.59	0.25	66.00	658.50	658.22	0.28
210+50.00	9.50	658.82	30.00	658.93	659.21	-0.28	33.50	659.12	658.90	-0.22	45.50	658.78	658.85	-0.07	-	-	-	-	57.50	658.54	658.21	0.33	66.00	658.20	657.87	0.33
210+75.00	9.50	658.44	30.00	658.56	658.77	-0.21	33.50	658.69	658.54	-0.15	45.50	658.45	658.41	0.04	-	-	-	-	57.50	658.21	657.84	0.37	66.00	657.87	657.52	0.35
211+00.00	9.50	658.05	30.00	658.20	658.37	-0.17	33.50	658.29	658.18	-0.11	45.50	658.13	658.09	0.04	-	-	-	-	57.50	657.89	657.50	0.39	66.00	657.55	657.18	0.37
211+25.00	9.50	657.63	30.00	657.79	657.96	-0.17	33.50	657.85	657.79	-0.06	45.50	657.76	657.65	0.11	-	-	-	-	57.50	657.52	657.18	0.34	66.00	657.18	656.90	0.28
211+50.00	9.50	657.21	30.00	657.40	657.49	-0.09	33.50	657.45	657.40	-0.05	45.50	657.39	657.28	0.11	-	-	-	-	57.50	657.15	656.89	0.26	66.00	656.81	656.60	0.21
211+75.00	9.50	656.75	30.00	656.95	657.16	-0.21	33.50	657.05	656.97	-0.08	45.50	656.99	656.89	0.10	-	-	-	-	57.50	656.75	656.57	0.18	66.00	656.41	656.28	0.13
212+00.00	9.50	656.29	30.00	656.52	656.64	-0.12	33.50	656.60	656.54	-0.06	45.50	656.59	656.46	0.13	-	-	-	-	57.50	656.35	655.91	0.44	66.00	656.01	655.88	0.13
212+25.00	9.50	655.80	30.00	656.04	656.21	-0.17	33.50	656.18	656.07	-0.11	45.50	656.16	655.99	0.17	-	-	-	-	57.50	655.92	655.26	0.66	66.00	655.58	655.47	0.11
212+50.00	9.50	655.30	30.00	655.57	655.76	-0.19	33.50	655.75	655.61	-0.14	45.50	655.72	655.61	0.11	-	-	-	-	57.50	655.53	654.60	0.93	66.00	655.19	655.07	0.12
212+75.00	9.50	654.81	30.00	655.09	655.34	-0.25	33.50	655.33	655.14	-0.19	45.50	655.28	655.19	0.09	-	-	-	-	57.50	655.14	654.24	0.90	66.00	654.80	654.76	0.04
213+00.00	9.50	654.31	30.00	654.62	654.89	-0.27	33.50	654.86	654.67	-0.19	45.50	654.83	654.76	0.07	-	-	-	-	57.50	654.75	654.25	0.50	66.00	654.41	654.46	-0.05
213+25.00	9.50	653.82	30.00	654.15	654.47	-0.32	33.50	654.49	654.21	-0.28	45.50	654.41	654.34	0.07	-	-	-	-	57.50	654.35	654.41	-0.06	66.00	654.01	654.20	-0.19
213+50.00	9.50	653.38	30.00	653.76	654.05	-0.29	33.50	654.05	653.83	-0.22	45.50	654.05	653.99	0.06	-	-	-	-	57.50	653.99	654.08	-0.09	66.00	653.65	653.90	-0.25
213+75.00	9.50	653.00	30.00	653.43	653.65	-0.22	33.50	653.69	653.50	-0.19	45.50	653.76	653.76	0.00	-	-	-	-	57.50	653.70	653.78	-0.08	66.00	653.36	653.60	-0.24
214+00.00	9.50	652.66	30.00	653.14	653.30	-0.16	33.50	653.34	653.22	-0.12	45.50	653.50	653.49	0.01	-	-	-	-	57.50	653.44	653.50	-0.06	66.00	653.10	653.32	-0.22
214+25.00	9.50	652.40	30.00	652.94	653.02	-0.08	33.50	653.07	653.02	-0.05	45.50	653.33	653.26	0.07	-	-	-	-	57.50	653.27	653.27	0.00	66.00	653.03	653.13	-0.10
214+50.00	9.50	652.17	30.00	652.72	652.75	-0.03	33.50	652.82	652.81	-0.01	45.50	653.14	653.02	0.12	-	-	-	-	57.50	653.08	653.04	0.04	66.00	652.90	652.90	0.00
214+75.00	9.50	652.03	30.00	652.58	652.53	0.05	33.50	652.60	652.67	0.07	45.50	653.00	652.79	0.21	-	-	-	-	57.59	652.94	652.78	0.16	66.09	652.69	652.67	0.02
215+00.00	9.50	651.89	30.00	652.44	652.36	0.08	33.50	652.43	652.54	0.11	45.50	652.86	652.61	0.25	-	-	-	-	57.85	652.80	652.58	0.22	66.35	652.48	652.47	0.01
215+25.00	9.50	651.86	30.00	652.41	652.26	0.15	33.50	652.31	652.51	0.20	45.50	652.83	652.44	0.39	-	-	-	-	58.26	652.77	652.41	0.36	66.76	652.33	652.30	0.03
215+50.00	9.50	651.82	30.00	652.38	652.24	0.14	33.50	652.30	652.47	0.17	45.50	652.80	652.43	0.37	-	-	-	-	58.83	652.73	652.34	0.39	67.33	652.19	652.17	0.02
215+75.00	9.50	651.90	30.00	652.45	652.28	0.17	33.50	652.33	652.55	0.22	45.50	652.87	652.44	0.43	-	-	-	-	59.56	652.80	652.33	0.47	68.06	652.25	652.23	0.02
216+00.00	9.50	651.98	30.00	652.53	652.37	0.16	33.50	652.43	652.63	0.20	45.50	652.95	652.55	0.40	-	-	-	-	60.45	652.88	652.49	0.39	68.95	652.30	652.28	0.02
216+25.00	9.50	652.15	30.00	652.71	652.51	0.20	33.50	652.56	652.80	0.24	45.50	653.13	652.75	0.38	-	-	-	-	61.49	653.05	652.74	0.31	70.00	652.71	652.49	0.22
216+25.47	9.50	652.16	30.00	652.71	652.51	0.20	33.50	652.57	652.81	0.24	45.50	653.13	652.75	0.38	45.50	653.13	652.75	0.38	61.52	653.05	652.75	0.30	70.03	652.77	652.49	0.28
216+50.00	9.50	652.35	30.00	652.91	652.69	0.22	33.50	652.74	653.00	0.26	45.50	653.33	652.96	0.37	46.68	653.32	652.97	0.35	62.70	653.24	652.97	0.27	71.21	652.90	652.71	0.19
216+75.00	9.50	652.63	30.00	653.18	652.92	0.26	33.50	652.99	653.28	0.29	45.50	653.60	653.19	0.41	48.05	653.59	653.21	0.38	64.07	653.51	653.19	0.32	72.59	653.17	652.93	0.24
217+00.00	9.50	652.94	30.00	653.50	653.20	0.30	33.50	653.28	653.59	0.31	45.50	653.92	653.50	0.42	49.57	653.90	653.54	0.36	65.60	653.80	653.53	0.27	74.12	653.46	653.20	0.26
217+25.00	9.50	653.32	30.00	653.87	653.53	0.34	33.50	653.61	653.97	0.36	45.50	654.29	653.86	0.43	51.25	654.26	653.92	0.34	67.29	654.16	653.89	0.27	75.81	653.82	653.48	0.34
217+50.00	9.50	653.74	30.00	654.30	653.90	0.40	33.50	653.99	654.40	0.41	45.50	654.72	654.25	0.47	53.10	654.68	654.36	0.32	69.14	654.58	654.31	0.27	77.67	654.24	653.90	0.34
217+75.00	9.50	654.24	30.00	654.79	654.33	0.46	33.50	654.41	654.89	0.48	45.50	655.21	654.70	0.51	55.10	655.17	654.84	0.33	71.15	655.05	654.72	0.33	79.68	654.71	654.33	0.38
218+00.00	9.50	654.77	30.00	655.33	654.83	0.50	33.50	654.91	655.42	0.51	45.50	655.75	655.18	0.57	57.27	655.69	655.36	0.33	73.33	655.56	655.28	0.28	81.86	655.22	654.89	0.33
218+25.00	9.50	655.38	30.00	655.94	655.40	0.54	33.50	655.47	656.03	0.56	45.50	656.35	655.72	0.63	59.59	656.28	655.95	0.33	75.66	656.15	655.85	0.30	84.20	655.81	655.47	0.34
218+50.00	9.50	656.02	30.00	656.57	656.02	0.55	33.50	656.09	656.66	0.57	45.50	656.99	656.33	0.66	62.08	656.91	656.58	0.33	78.16	656.76	656.50	0.26	86.71	656.42	656.12	0.30
218+75.00	9.50	656.69	30.00	657.25	656.68	0.57	33.50	656.75	657.34	0.59	45.50	657.66	656.97	0.69	64.73	657.45	657.22	0.23	80.82	657.30	657.15	0.15	89.37	656.96	656.78	0.18
219+00.00	9.50	657.37	30.00	657.92	657.37	0.55	33.50	657.44	658.01	0.57	45.50	658.34	657.64	0.70	67.54	657.97	657.89	0.08	83.65	657.81	657.79	0.02	92.20	657.46	657.46	0.00
219+06.35	9.50	657.54	30.00	658.09	657.56	0.53	33.50	657.62	658.19	0.57	45.50	658.51	657.82	0.69	68.28	658.05	658.06	-0.01	84.39	657.93	657.95	-0.02	BEGIN LANE 3 SHOULDER			
219+08.18	9.50	657.59	30.00	658.14	657.61	0.53	33.50	657.68	658.51	0.83	45.50	658.56	657.87	0.69	68.50	658.12	658.11	0.01	-	-	-	-				
219+25.00	9.50	658.04	30.00	658.60	658.11	0.49	33.50	658.17	658.69	0.52	45.50	659.01	658.32	0.69	-	-	-	-	-	-	-	-	54.00	658.61	658.31	0.30
219+50.00	9.50	658.72	30.00	659.27	658.88	0.39	33.50	658.93	659.36	0.43	45.50	659.69	659.07	0.62	-	-	-	-	-	-	-	-	54.00	659.29	659.08	0.21
219+75.00	9.50	659.39	30.00	659.95	659.66	0.29	33.50	659.72	660.04	0.32	45.50	660.37	659.84	0.53	-	-	-	-	-	-	-	-	54.00	659.97	659.79	0.18
220+00.00	9.50	660.07	30.00	660.62	660.45	0.17	33.50	660.52	660.71	0.19	45.50	661.04	660.66	0.38	-	-	-	-	-	-	-	-	54.00	660.64	660.55	0.09
220+25.00	9.50	660.74	30.00	661.37	661.25	0.12	33.50	661.34	661.46	0.12	45.50	661.79	661.50	0.29	-	-	-	-	-	-	-	-	54.00	661.39	661.27	0.12
220+50.00	9.50	661.42	30.00	662.12	662.06	0.06	33.50	662.15	662.21	0.06	45.50	662.54	662.23	0.31	-	-	-	-	-	-	-	-	54.00	662.14	661.97	0.17
220+75.00	9.50	662.09	30.00	662.87	662.86	0.01	33.50	662.92	662.96	0.04	45.50	663.28	662.94	0.34	-	-	-	-	-	-	-	-	54.00	662.88	662.61	0.27
220+83.50	9.50	662.33	30.00	663.12	663.12	0.00	33.50	663.19	663.21	0.02	45.50	663.54	663.18	0.36	-	-	-	-	-	-	-	-	54.00	663.14	662.84	0.30



Preliminary Plans - For Reference Only

RESURFACING DETAIL TABLE
I.R. 77 NB STA. 208+08.00 TO 220+83.50

DESIGN AGENCY
HNTB

DESIGNER
AS

REVIEWER
KKP 04/25/22

PROJECT ID
105743

SHEET P.652 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Plan 2 PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:57:52 AM USER: kperkins
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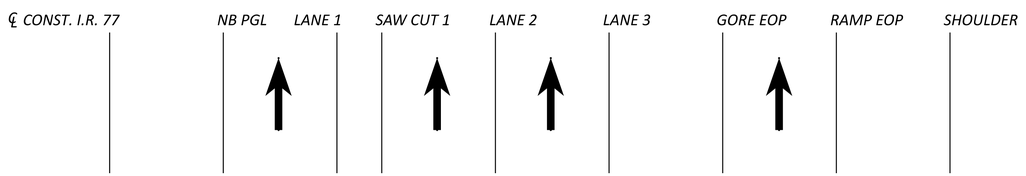
CL 77	PGL NB		SAWCUT 1				LANE 2				LANE 3				GORE EOP				RAMP EOP				SHOULDER			
STATION	OFFSET	PROPOSED ELEVATION	OFFSET	PROPOSED ELEVATION	EXISTING ELEVATION	ELEVATION DIFFERENCE	OFFSET	PROPOSED ELEVATION	EXISTING ELEVATION	ELEVATION DIFFERENCE	OFFSET	PROPOSED ELEVATION	EXISTING ELEVATION	ELEVATION DIFFERENCE	OFFSET	PROPOSED ELEVATION	EXISTING ELEVATION	ELEVATION DIFFERENCE	OFFSET	PROPOSED ELEVATION	EXISTING ELEVATION	ELEVATION DIFFERENCE	OFFSET	PROPOSED ELEVATION	EXISTING ELEVATION	ELEVATION DIFFERENCE
221+00.00	9.50	MATCH EXISTING	-	-	-	-	33.50	663.69	663.69	0.00	45.50	664.01	663.66	0.35	-	-	-	-	-	-	-	-	54.00	663.67	663.37	0.30
221+25.00	9.50		-	-	-	-	33.50	664.45	664.45	0.00	45.50	664.77	664.42	0.35	-	-	-	-	-	-	-	-	54.00	664.43	664.15	0.28
221+50.00	9.50		-	-	-	-	33.50	665.23	665.23	0.00	45.50	665.55	665.20	0.35	-	-	-	-	-	-	-	-	54.00	665.21	664.96	0.25
221+75.00	9.50		-	-	-	-	33.50	666.01	666.01	0.00	45.50	666.33	665.98	0.35	-	-	-	-	-	-	-	-	54.00	665.99	665.75	0.24
222+00.00	9.50		-	-	-	-	33.50	666.75	666.75	0.00	45.50	667.07	666.74	0.33	-	-	-	-	-	-	-	-	54.00	666.73	666.52	0.21
222+15.00	9.50		-	-	-	-	33.50	667.17	667.17	0.00	45.50	667.50	667.19	0.31	-	-	-	-	-	-	-	-	54.00	667.16	666.97	0.19
222+25.00	9.50		-	-	-	-	33.50	667.45	667.45	0.00	45.50	667.76	667.47	0.29	-	-	-	-	-	-	-	-	54.00	667.42	667.25	0.17
222+50.00	9.50		-	-	-	-	33.50	668.15	668.15	0.00	45.50	668.43	668.16	0.27	-	-	-	-	-	-	-	-	54.00	668.09	667.92	0.17
222+75.00	9.50		-	-	-	-	33.50	668.85	668.85	0.00	45.50	669.09	668.83	0.26	-	-	-	-	-	-	-	-	54.00	668.75	668.56	0.19
223+00.00	9.50		-	-	-	-	33.50	669.55	669.55	0.00	45.50	669.76	669.52	0.24	-	-	-	-	-	-	-	-	54.00	669.42	669.26	0.16
223+10.00	9.50		-	-	-	-	33.50	669.83	669.83	0.00	45.50	670.02	669.80	0.22	-	-	-	-	-	-	-	-	54.00	669.68	669.55	0.13
223+25.00	9.50		-	-	-	-	33.50	670.25	670.25	0.00	45.50	670.41	670.22	0.19	-	-	-	-	-	-	-	-	54.00	670.07	670.23	-0.17
223+50.00	9.50		-	-	-	-	33.50	671.06	671.06	0.00	45.50	671.16	670.97	0.19	-	-	-	-	-	-	-	-	54.00	670.82	670.98	-0.16
223+75.00	9.50		-	-	-	-	33.50	671.89	671.89	0.00	45.50	671.94	671.72	0.22	-	-	-	-	-	-	-	-	54.00	671.60	671.73	-0.14
223+96.00	9.50		-	-	-	-	33.50	672.59	672.59	0.00	45.50	672.59	672.38	0.21	-	-	-	-	-	-	-	-	54.00	672.25	672.40	-0.15
224+00.00	9.50		-	-	-	-	33.50	672.73	672.73	0.00	45.50	672.72	672.51	0.21	-	-	-	-	-	-	-	-	54.00	672.38	672.52	-0.14
224+25.00	9.50		-	-	-	-	33.50	673.56	673.56	0.00	45.50	673.50	673.31	0.19	-	-	-	-	-	-	-	-	54.00	673.16	673.32	-0.17
224+50.00	9.50		-	-	-	-	33.50	673.42	673.42	0.00	45.50	673.30	673.23	0.07	-	-	-	-	-	-	-	-	54.00	672.96	672.96	0.00
224+75.00	9.50		-	-	-	-	33.50	674.21	674.21	0.00	45.50	674.03	674.02	0.02	-	-	-	-	-	-	-	-	54.00	673.69	673.69	0.00
224+82.00	9.50		-	-	-	-	33.50	674.43	674.43	0.00	45.50	674.24	674.24	0.00	-	-	-	-	-	-	-	-	54.00	673.90	673.90	0.00
225+00.00	9.50		-	-	-	-	33.50	675.00	675.00	0.00	45.50	674.81	674.81	0.00	-	-	-	-	-	-	-	-	54.00	674.47	674.47	0.00
225+25.00	9.50		-	-	-	-	33.50	675.79	675.79	0.00	45.50	675.60	675.60	0.00	-	-	-	-	-	-	-	-	54.00	675.26	675.26	0.00
225+40.00	9.50		-	-	-	-	33.50	676.26	676.26	0.00	45.50	676.07	676.07	0.00	-	-	-	-	-	-	-	-	54.00	675.73	675.73	0.00

Preliminary Plans - For Reference Only



RESURFACING DETAIL TABLE
I.R. 77 NB STA. 220+83.50 TO STA. 225+40.00

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER KKP 04/25/22
PROJECT ID 105743
SHEET P.653 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Plan 3 PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 1:57:54 AM USER: kperkins
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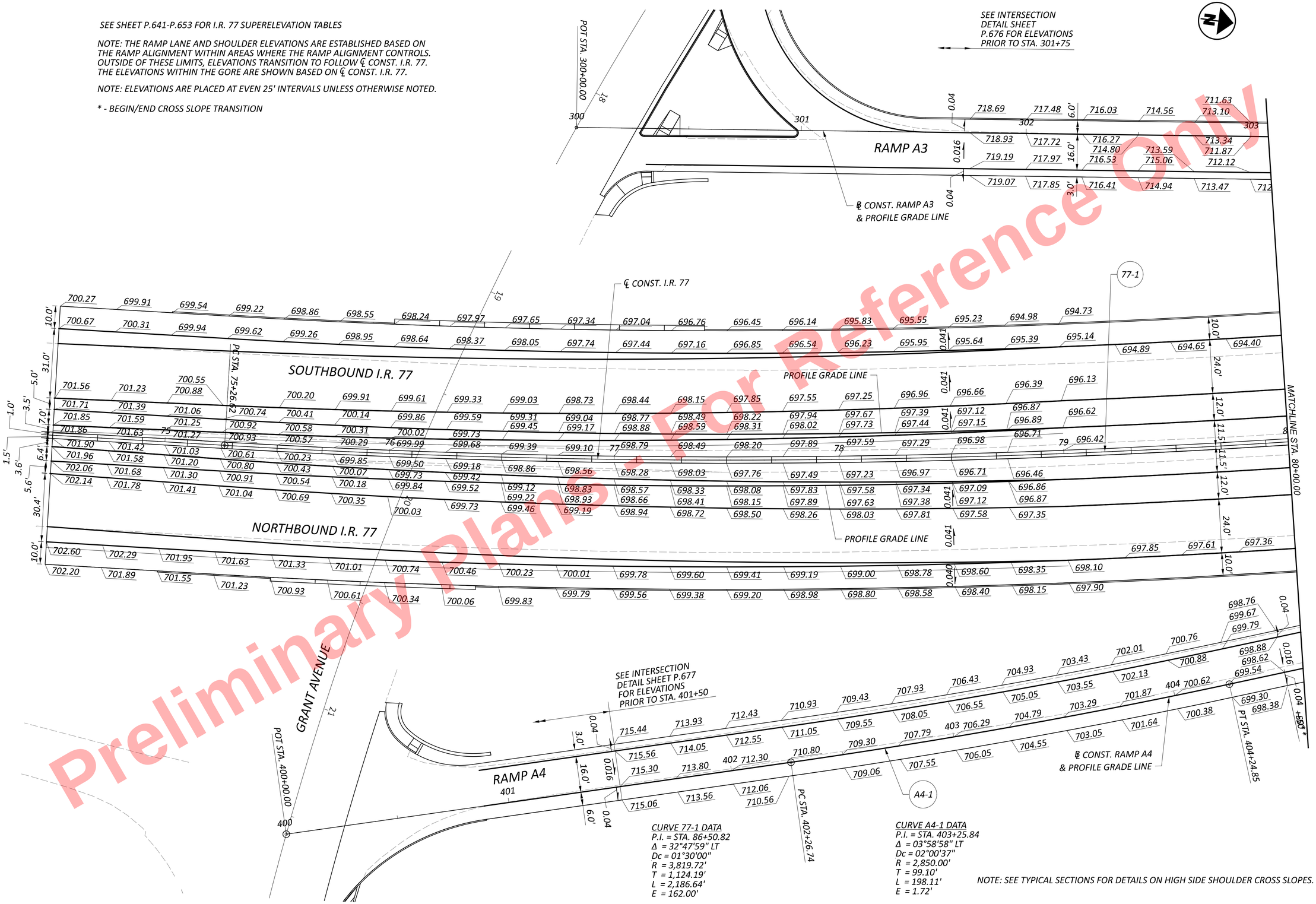
SEE SHEET P.641-P.653 FOR I.R. 77 SUPERELEVATION TABLES

NOTE: THE RAMP LANE AND SHOULDER ELEVATIONS ARE ESTABLISHED BASED ON THE RAMP ALIGNMENT WITHIN AREAS WHERE THE RAMP ALIGNMENT CONTROLS. OUTSIDE OF THESE LIMITS, ELEVATIONS TRANSITION TO FOLLOW ℄ CONST. I.R. 77. THE ELEVATIONS WITHIN THE GORE ARE SHOWN BASED ON ℄ CONST. I.R. 77.

NOTE: ELEVATIONS ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

* - BEGIN/END CROSS SLOPE TRANSITION



CURVE 77-1 DATA
P.I. = STA. 86+50.82
Δ = 32°47'59" LT
Dc = 01°30'00"
R = 3,819.72'
T = 1,124.19'
L = 2,186.64'
E = 162.00'

CURVE A4-1 DATA
P.I. = STA. 403+25.84
Δ = 03°58'58" LT
Dc = 02°00'37"
R = 2,850.00'
T = 99.10'
L = 198.11'
E = 1.72'

NOTE: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERCHANGE DETAILS
RAMPS A3 & A4

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.654 TOTAL P.1269

CUY-77-11.41 - PART 1

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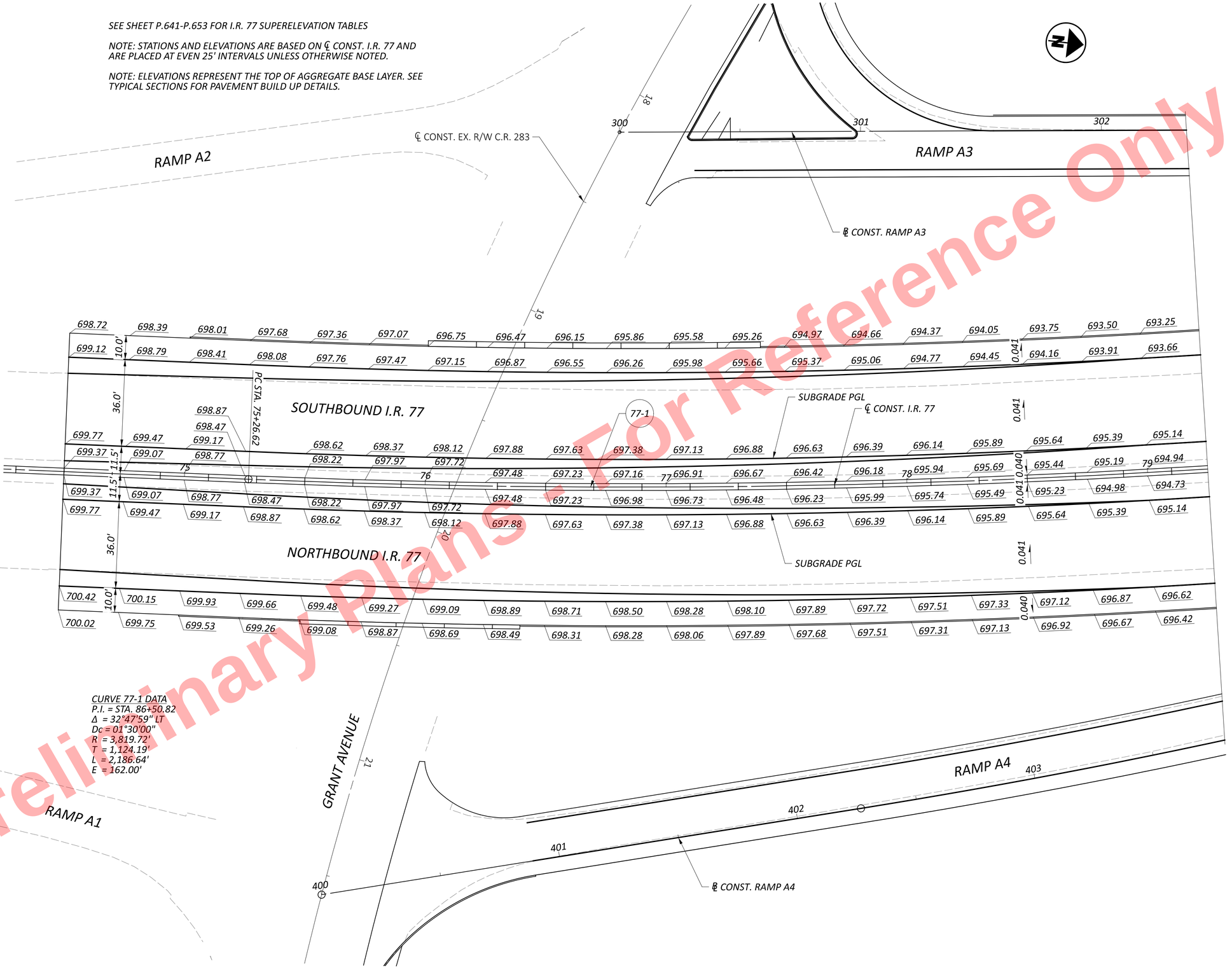
SEE SHEET P.641-P.653 FOR I.R. 77 SUPERELEVATION TABLES

NOTE: STATIONS AND ELEVATIONS ARE BASED ON ℄ CONST. I.R. 77 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

NOTE: ELEVATIONS REPRESENT THE TOP OF AGGREGATE BASE LAYER. SEE TYPICAL SECTIONS FOR PAVEMENT BUILD UP DETAILS.



CURVE 77-1 DATA
P.I. = STA. 86+50.82
Δ = 32°47'59" LT
Dc = 01°30'00"
R = 3,819.72'
T = 1,124.19'
L = 2,186.64'
E = 162.00'

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERCHANGE DETAILS
I.R. 77 SUBGRADE ELEVATIONS

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.655 TOTAL P.1269

CUY-77-11.41 - PART 1

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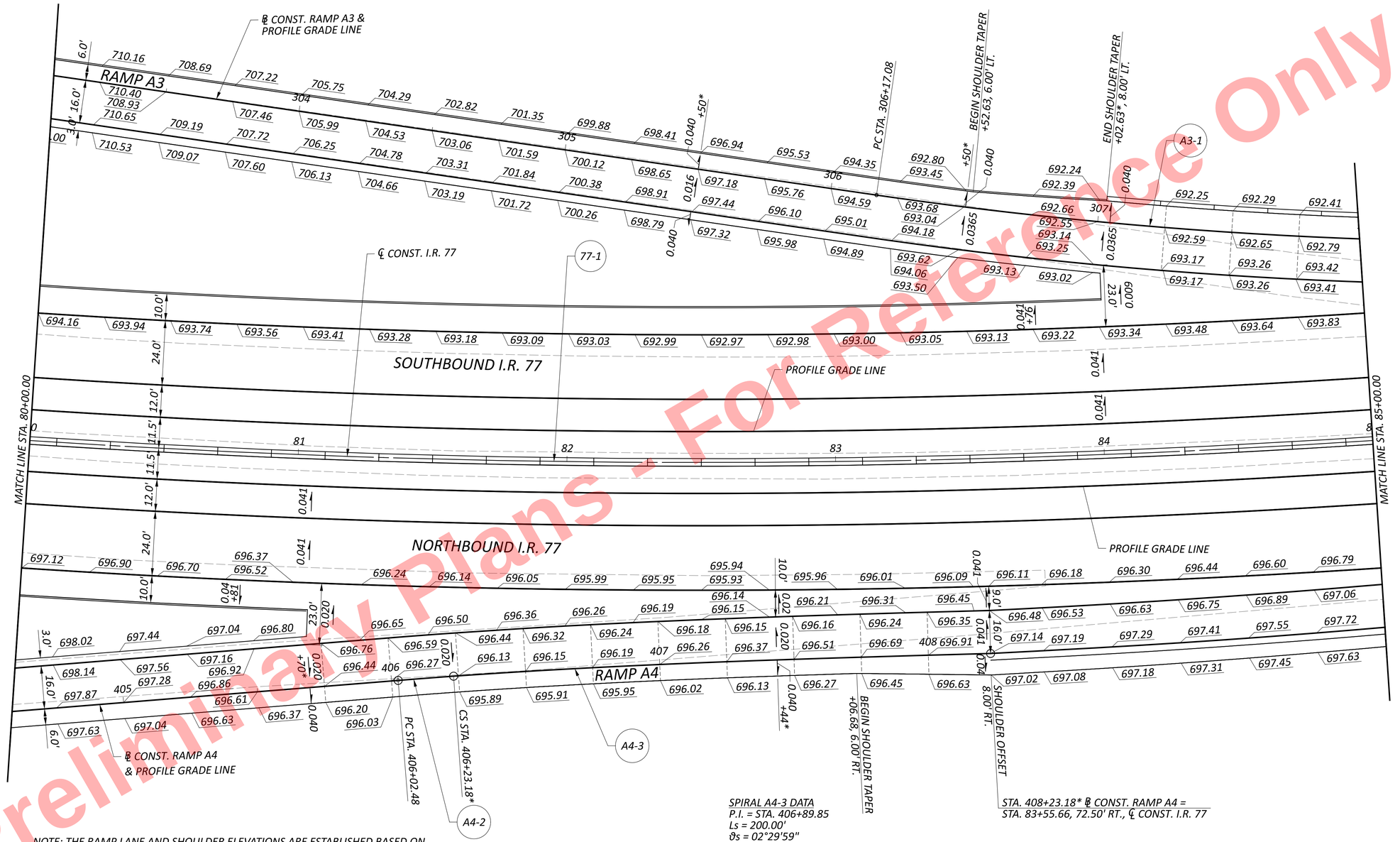

NOTE: THE RAMP LANE AND SHOULDER ELEVATIONS ARE ESTABLISHED BASED ON THE RAMP ALIGNMENT WITHIN AREAS WHERE THE RAMP ALIGNMENT CONTROLS. OUTSIDE OF THESE LIMITS, ELEVATIONS TRANSITION TO FOLLOW ℄ CONST. I.R. 77. THE ELEVATIONS WITHIN THE GORE ARE SHOWN BASED ON ℄ CONST. I.R. 77.

NOTE: ELEVATIONS ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

NOTE: RAMP A4 TAPERS FROM STA. 83+55.66 TO STA. 96+05.66 AT A RATE OF 50:1

* - BEGIN/END CROSS SLOPE TRANSITION

NOTE: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

SPIRAL A4-3 DATA
P.I. = STA. 406+89.85
Ls = 200.00'
ϑs = 02°29'59"
LT = 133.35'
ST = 66.68'
x = 199.96'
y = 2.91'
k = 99.99'
p = 0.73'
C = 199.98'
Start = Sta. 406+23.18
End = Sta. 408+23.18
C.B. = N17°41'37"W

STA. 408+23.18* ℄ CONST. RAMP A4 = STA. 83+55.66, 72.50' RT., ℄ CONST. I.R. 77

CURVE 77-1 DATA
P.I. = STA. 86+50.82
Δ = 32°47'59" LT
Dc = 01°30'00"
R = 3,819.72'
T = 1,124.19'
L = 2,186.64'
E = 162.00'

CURVE A3-1 DATA
P.I. = STA. 308+68.71
Δ = 17°04'02" LT
Dc = 03°25'00"
R = 1,676.95'
T = 251.63'
L = 499.53'
E = 18.77'

CURVE A4-2 DATA
P.I. = STA. 406+12.83
Δ = 00°31'02" Rt
Dc = 02°29'59"
R = 2,292.00'
T = 10.35'
L = 20.69'
E = 0.02'

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERCHANGE DETAILS
RAMPS A3 & A4

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.656 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I77 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:04:18 PM USER: kperkins
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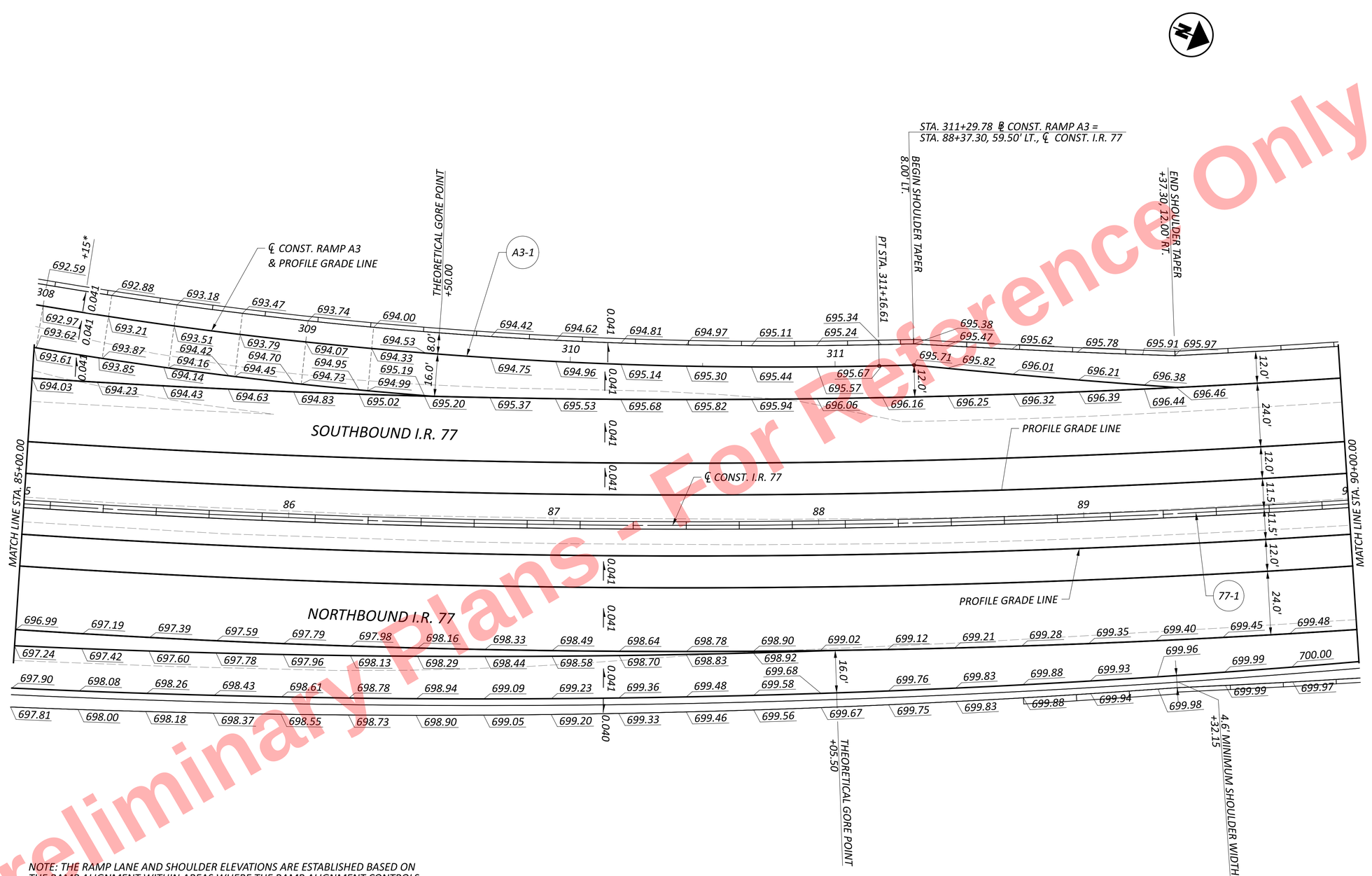

NOTE: THE RAMP LANE AND SHOULDER ELEVATIONS ARE ESTABLISHED BASED ON THE RAMP ALIGNMENT WITHIN AREAS WHERE THE RAMP ALIGNMENT CONTROLS. OUTSIDE OF THESE LIMITS, ELEVATIONS TRANSITION TO FOLLOW ℄ CONST. I.R. 77. THE ELEVATIONS WITHIN THE GORE ARE SHOWN BASED ON ℄ CONST. I.R. 77.

NOTE: ELEVATIONS ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

NOTES: RAMP A4 TAPERS FROM STA. 83+55.66 TO STA. 96+05.66 AT A RATE OF 50:1

** - BEGIN/END CROSS SLOPE TRANSITION*

NOTES: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

CURVE 77-1 DATA
P.I. = STA. 86+50.82
Δ = 32°47'59" LT
Dc = 01°30'00"
R = 3,819.72'
T = 1,124.19'
L = 2,186.64'
E = 162.00'

CURVE A3-1 DATA
P.I. = STA. 308+68.71
Δ = 17°04'02" LT
Dc = 03°25'00"
R = 1,676.95'
T = 251.63'
L = 499.53'
E = 18.77'

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERCHANGE DETAILS
RAMPS A3 & A4

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.657 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I77 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:04:19 PM USER: kperkins
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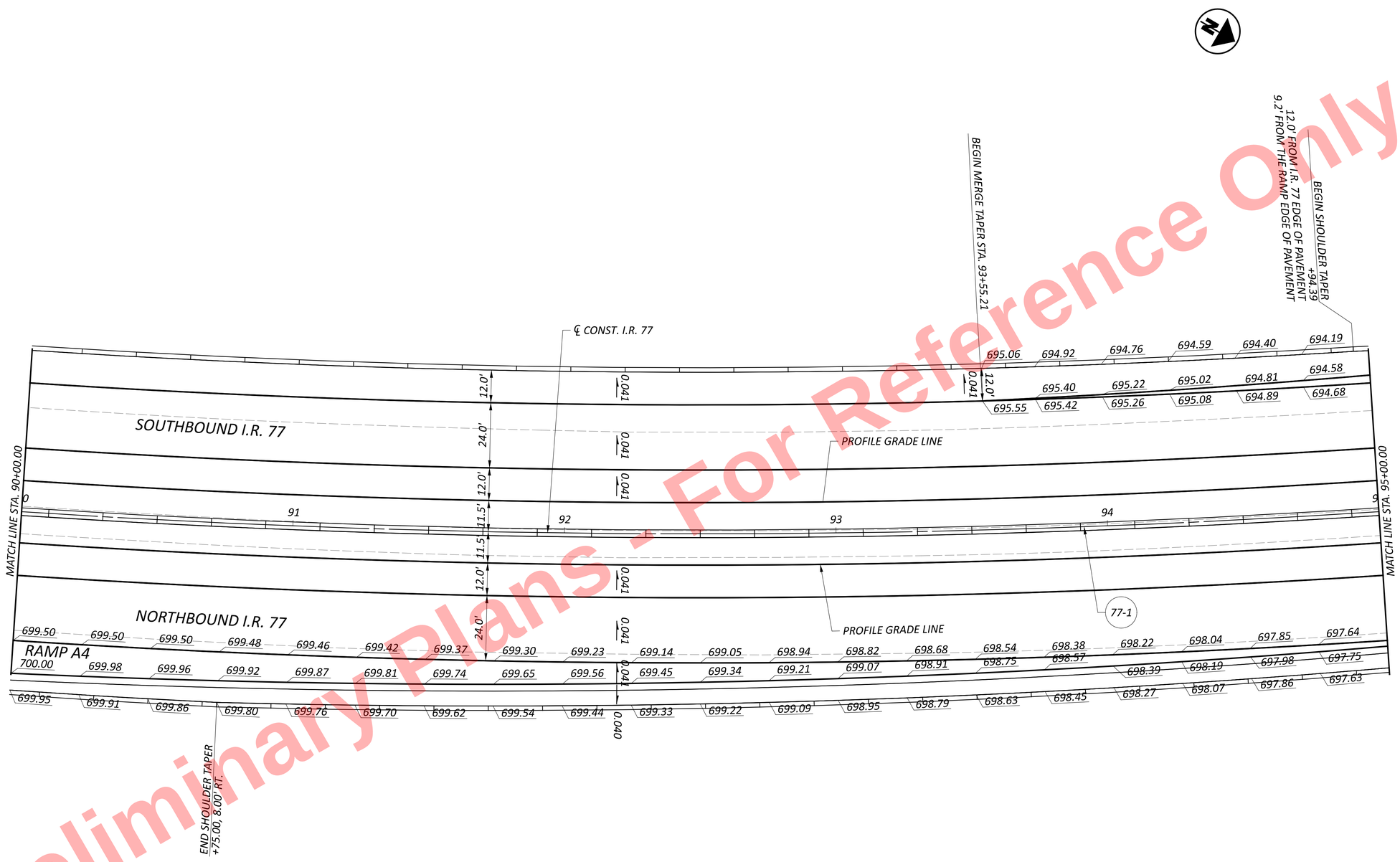

NOTE: THE RAMP LANE AND SHOULDER ELEVATIONS ARE ESTABLISHED BASED ON THE RAMP ALIGNMENT WITHIN AREAS WHERE THE RAMP ALIGNMENT CONTROLS. OUTSIDE OF THESE LIMITS, ELEVATIONS TRANSITION TO FOLLOW ℄ CONST. I.R. 77. THE ELEVATIONS WITHIN THE GORE ARE SHOWN BASED ON ℄ CONST. I.R. 77.

NOTE: ELEVATIONS ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

NOTES: RAMP A4 TAPERS FROM STA. 83+55.66 TO STA. 96+05.66 AT A RATE OF 50:1

NOTE: RAMP B2 TAPERS FROM STA. 93+55.21 TO STA. 101+55.37 AT A RATE OF 50:1

** - BEGIN/END CROSS SLOPE TRANSITION*

NOTES: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

CURVE 77-1 DATA
P.I. = STA. 86+50.82
Δ = 32°47'59" LT
Dc = 01°30'00"
R = 3,819.72'
T = 1,124.19'
L = 2,186.64'
E = 162.00'

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERCHANGE DETAILS
RAMPS A4 & B2

CUY-77-11.41 - PART 1

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DESIGN AGENCY
HNTB

DESIGNER	MTD
REVIEWER	KKP 05/02/22
PROJECT ID	105743
SHEET	P.658
TOTAL	P.1269

NOTE: THE RAMP LANE AND SHOULDER ELEVATIONS ARE ESTABLISHED BASED ON THE RAMP ALIGNMENT WITHIN AREAS WHERE THE RAMP ALIGNMENT CONTROLS. OUTSIDE OF THESE LIMITS, ELEVATIONS TRANSITION TO FOLLOW ℄ CONST. I.R. 77. THE ELEVATIONS WITHIN THE GORE ARE SHOWN BASED ON ℄ CONST. I.R. 77.

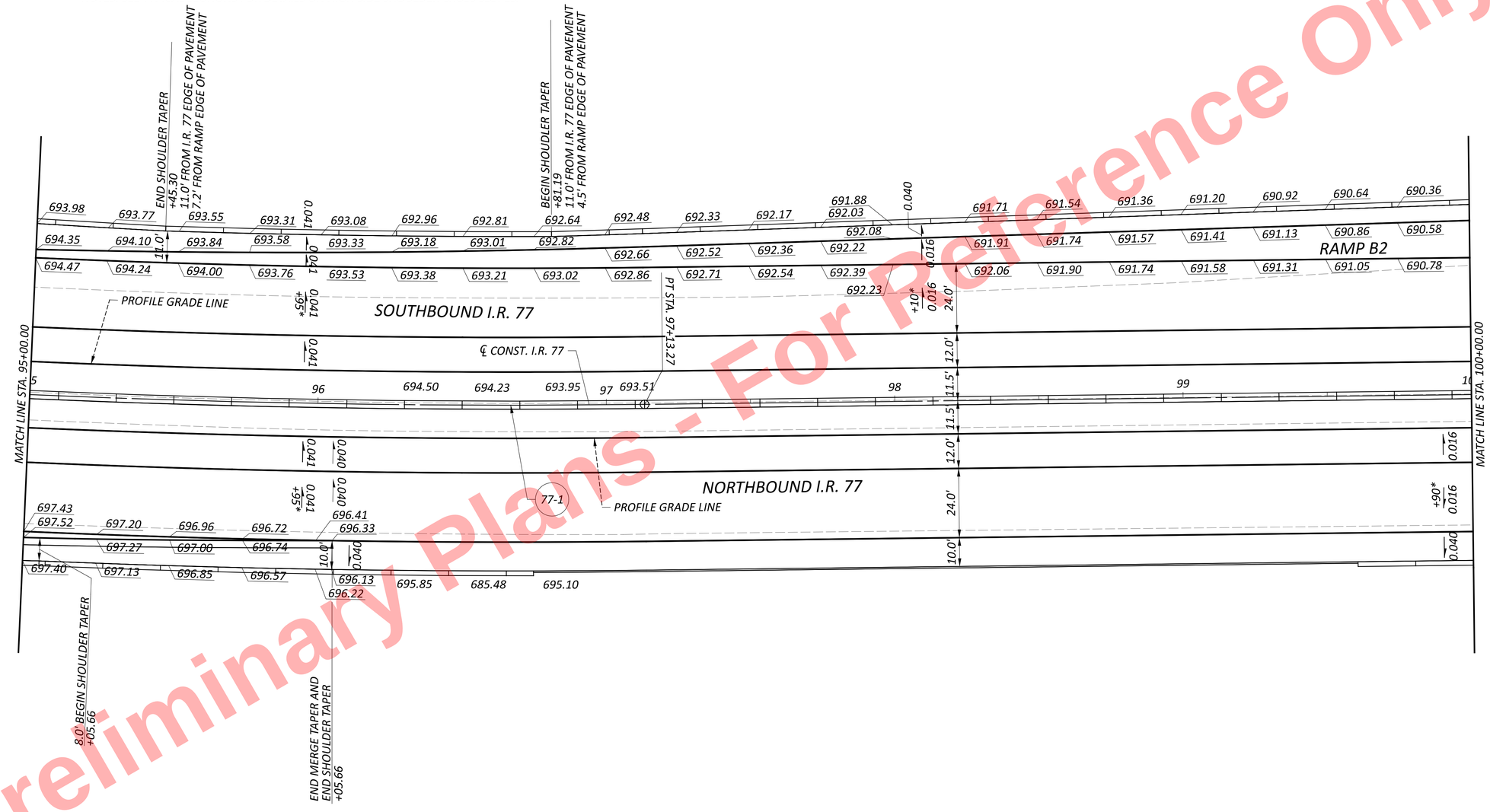
NOTE: ELEVATIONS ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

NOTES: RAMP A4 TAPERS FROM STA. 83+55.66 TO STA. 96+05.66 AT A RATE OF 50:1

NOTE: RAMP B2 TAPERS FROM STA. 93+55.21 TO STA. 101+55.37 AT A RATE OF 50:1

* - BEGIN/END CROSS SLOPE TRANSITION

NOTES: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.



CURVE 77-1 DATA
P.I. = STA. 86+50.82
Δ = 32°47'59" LT
Dc = 01°30'00"
R = 3,819.72'
T = 1,124.19'
L = 2,186.64'
E = 162.00'

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERCHANGE DETAILS
RAMPS A4 & B2

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.659 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_177 - Plan S [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 8:30:00 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\X00-Engineering\Roadway\Sheets\105743_GI201.dgn

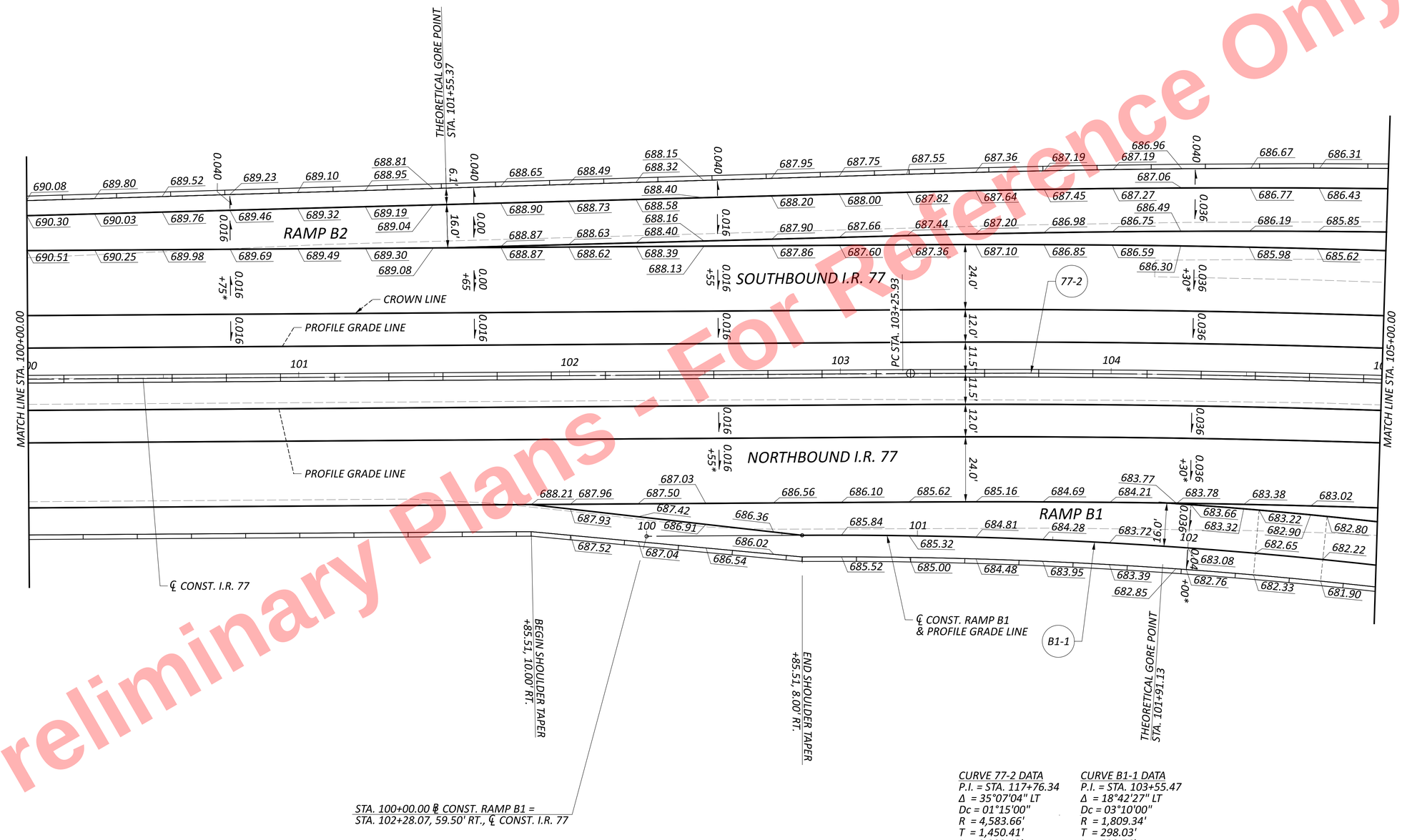
NOTE: THE RAMP LANE AND SHOULDER ELEVATIONS ARE ESTABLISHED BASED ON THE RAMP ALIGNMENT WITHIN AREAS WHERE THE RAMP ALIGNMENT CONTROLS. OUTSIDE OF THESE LIMITS, ELEVATIONS TRANSITION TO FOLLOW ℄ CONST. I.R. 77. THE ELEVATIONS WITHIN THE GORE ARE SHOWN BASED ON ℄ CONST. I.R. 77.

NOTE: ELEVATIONS ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

NOTE: RAMP B2 TAPERS FROM STA. 93+55.21 TO STA. 101+55.37 AT A RATE OF 50:1

* - BEGIN/END CROSS SLOPE TRANSITION

NOTES: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.



CURVE 77-2 DATA
P.I. = STA. 117+76.34
Δ = 35°07'04" LT
Dc = 01°15'00"
R = 4,583.66'
T = 1,450.41'
L = 2,809.43'
E = 224.00'

CURVE B1-1 DATA
P.I. = STA. 103+45.47
Δ = 18°42'27" LT
Dc = 03°10'00"
R = 1,809.34'
T = 298.03'
L = 590.76'
E = 24.38'

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERCHANGE DETAILS
RAMPS B1 & B2

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.660 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I77 - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 8:53:30 AM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GI201.dgn

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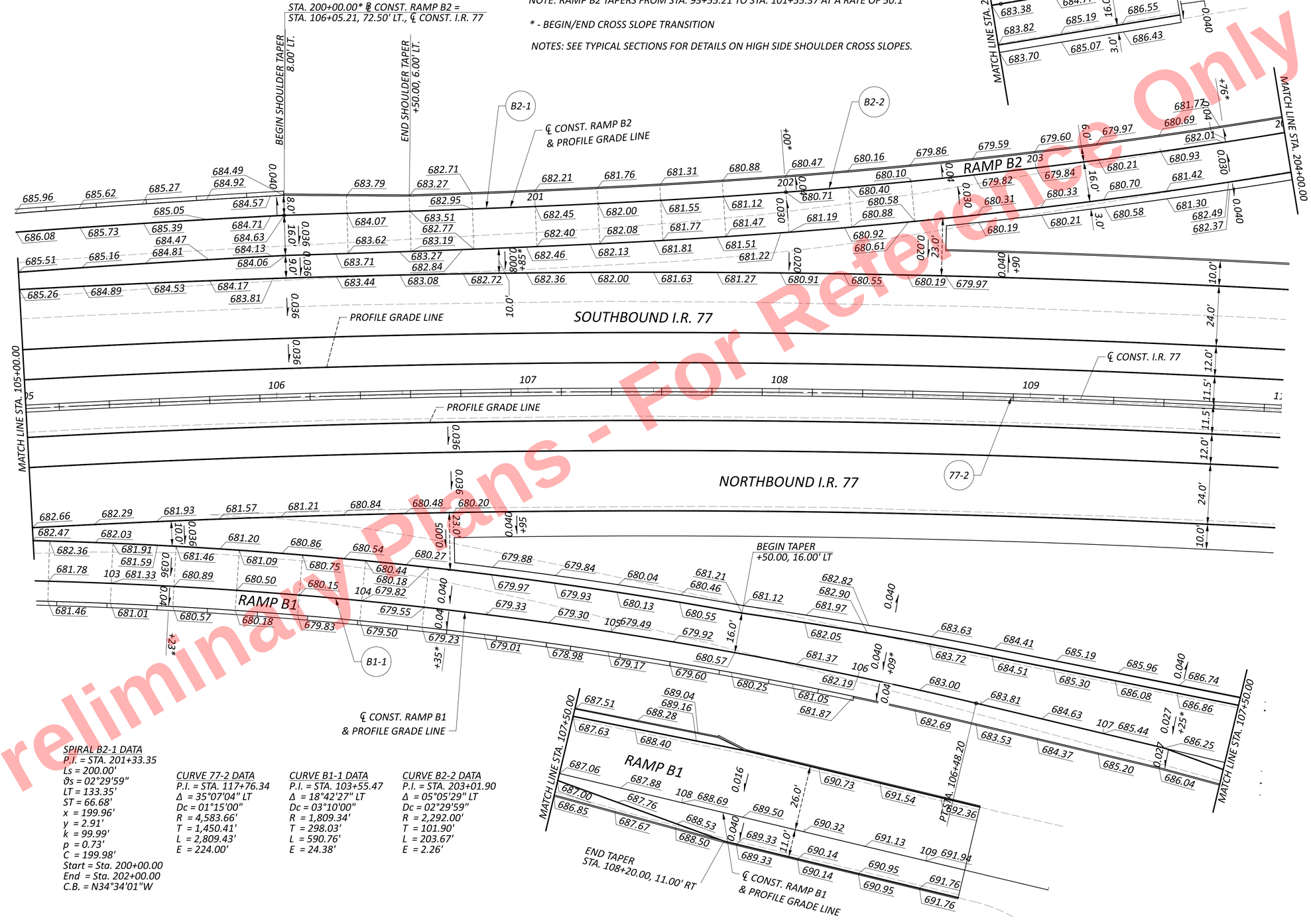
NOTE: ELEVATIONS ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

NOTE: RAMP B2 TAPERS FROM STA. 93+55.21 TO STA. 101+55.37 AT A RATE OF 50:1

* - BEGIN/END CROSS SLOPE TRANSITION

NOTES: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.



SPIRAL B2-1 DATA
P.I. = STA. 201+33.35
Ls = 200.00'
ϑs = 02°29'59"
LT = 133.35'
ST = 66.68'
x = 199.96'
y = 2.91'
k = 99.99'
p = 0.73'
C = 199.98'
Start = Sta. 200+00.00
End = Sta. 202+00.00
C.B. = N34°34'01"W

CURVE 77-2 DATA
P.I. = STA. 117+76.34
Δ = 35°07'04" LT
Dc = 01°15'00"
R = 4,583.66'
T = 1,450.41'
L = 2,809.43'
E = 224.00'

CURVE B1-1 DATA
P.I. = STA. 103+55.47
Δ = 18°42'27" LT
Dc = 03°10'00"
R = 1,809.34'
T = 298.03'
L = 590.76'
E = 24.38'

CURVE B2-2 DATA
P.I. = STA. 203+01.90
Δ = 05°05'29" LT
Dc = 02°29'59"
R = 2,292.00'
T = 101.90'
L = 203.67'
E = 2.26'

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERCHANGE DETAILS
RAMPS B1 & B2

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.661 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I77 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 8:55:20 AM USER: kperkins
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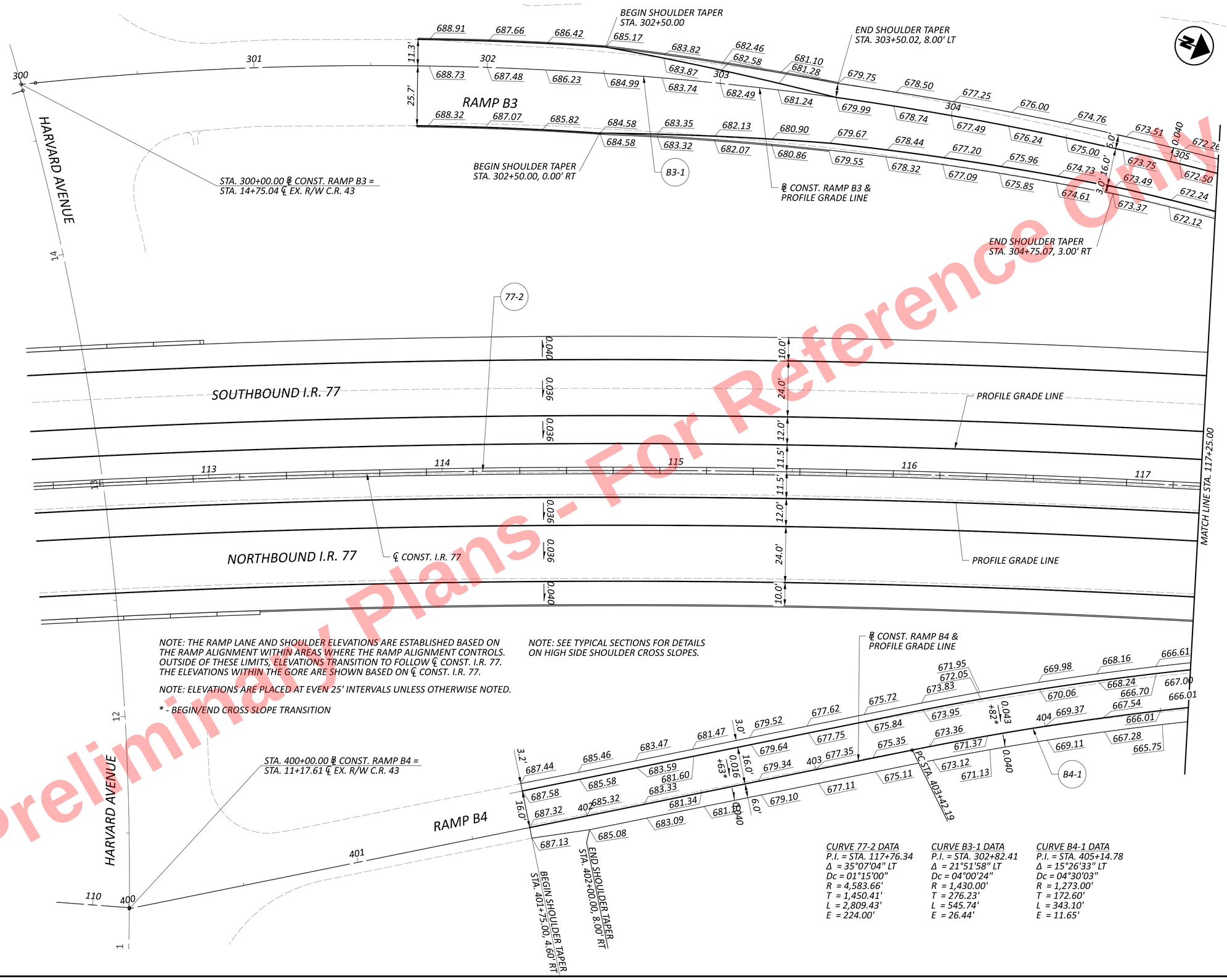

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NOTE: ELEVATIONS ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

* - BEGIN/END CROSS SLOPE TRANSITION

NOTE: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

CURVE 77-2 DATA
P.I. = STA. 117+76.34
Δ = 35°07'04" LT
Dc = 01°15'00"
R = 4,583.66'
T = 1,450.41'
L = 2,809.43'
E = 224.00'

CURVE B3-1 DATA
P.I. = STA. 302+82.41
Δ = 21°51'58" LT
Dc = 04°00'24"
R = 1,430.00'
T = 276.23'
L = 545.74'
E = 26.44'

CURVE B4-1 DATA
P.I. = STA. 405+14.78
Δ = 15°26'33" LT
Dc = 04°30'03"
R = 1,273.00'
T = 172.60'
L = 343.10'
E = 11.65'

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

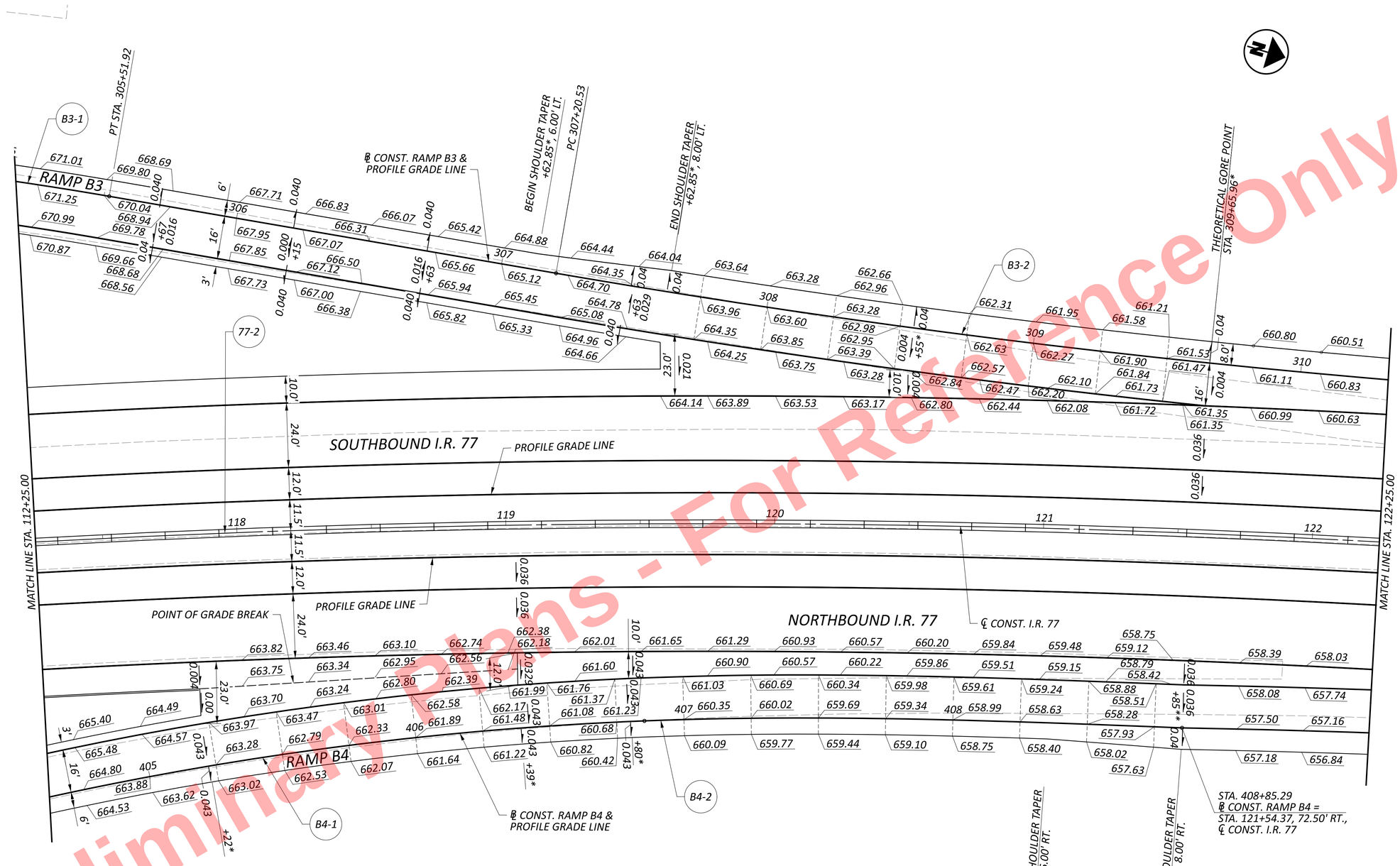
INTERCHANGE DETAILS
RAMPS B3 & B4

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.662 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:04:37 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GI301.dgn



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NOTE: ELEVATIONS ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

* - BEGIN/END CROSS SLOPE TRANSITION

NOTES: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

SPIRAL B4-2 DATA
P.I. = STA. 407+51.99
Ls = 200.00'
ϑs = 04°30'03"
LT = 133.38'
ST = 66.71'
x = 199.88'
y = 5.24'
k = 99.98'
p = 1.31'
C = 199.95'
Start = Sta. 406+85.29
End = Sta. 408+85.29
C.B. = N15°52'10"W

CURVE 77-2 DATA
P.I. = STA. 117+76.34
Δ = 35°07'04" LT
Dc = 01°15'00"
R = 4,583.66'
T = 1,450.41'
L = 2,809.43'
E = 224.00'

CURVE B3-1 DATA
P.I. = STA. 302+82.41
Δ = 21°51'58" RT
Dc = 04°00'24"
R = 1,430.00'
T = 276.23'
L = 545.74'
E = 26.44'

CURVE B3-2 DATA
P.I. = STA. 309+06.95
Δ = 05°53'53" LT
Dc = 01°35'00"
R = 3,618.68'
T = 186.42'
L = 372.52'
E = 4.80'

CURVE B4-1 DATA
P.I. = STA. 405+14.78
Δ = 15°26'33" LT
Dc = 04°30'03"
R = 1,273.00'
T = 172.60'
L = 343.10'
E = 11.65'

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERCHANGE DETAILS RAMPS B3 & B4

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.663 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:04:38 PM USER: kperkins
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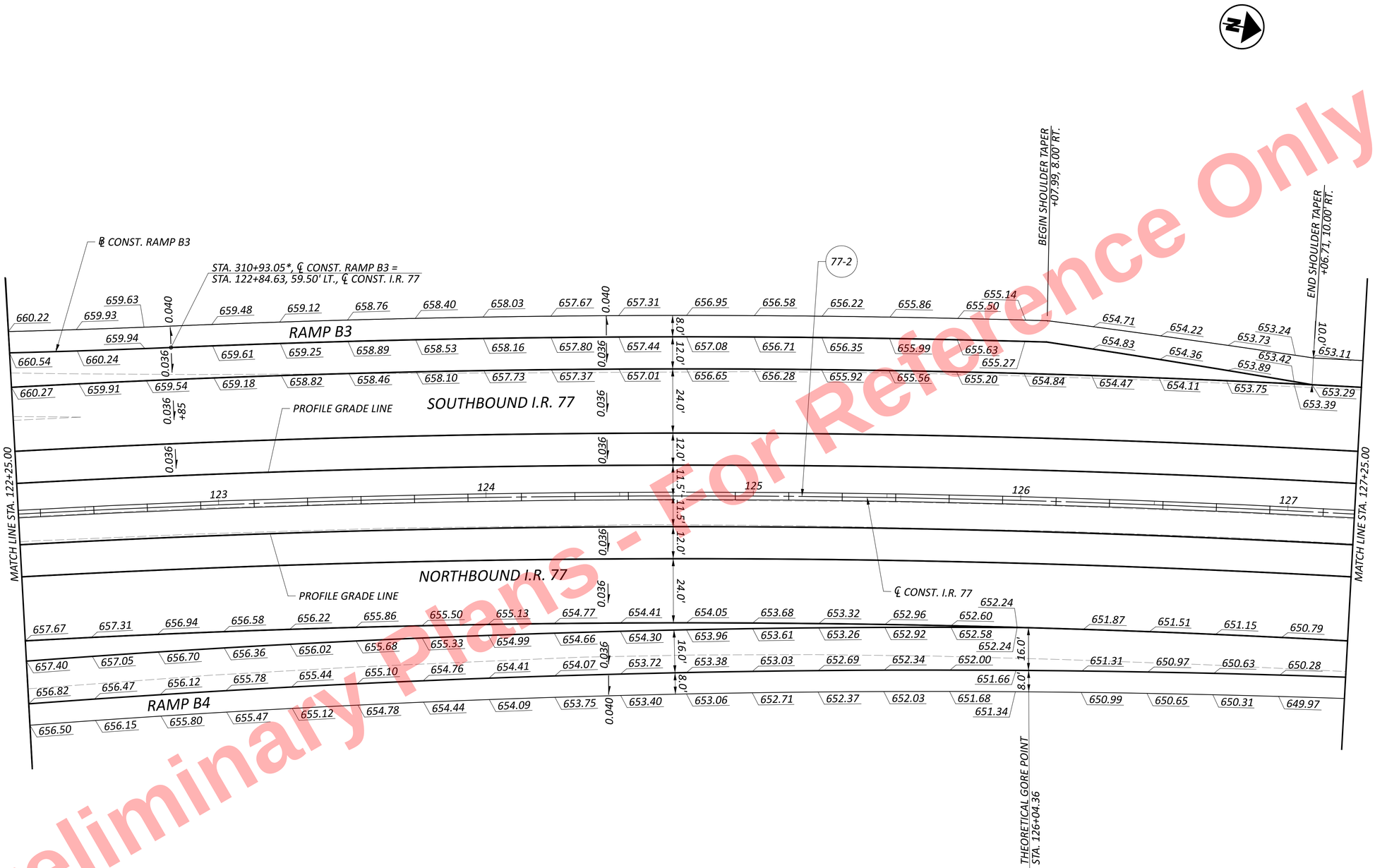

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NOTE: ELEVATIONS ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

* - BEGIN/END CROSS SLOPE TRANSITION

NOTES: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

CURVE 77-2 DATA
P.I. = STA. 117+76.34
Δ = 35°07'04" LT
Dc = 01°15'00"
R = 4,583.66'
T = 1,450.41'
L = 2,809.43'
E = 224.00'

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERCHANGE DETAILS
RAMPS B3 & B4

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.664 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:04:39 PM USER: kperkins
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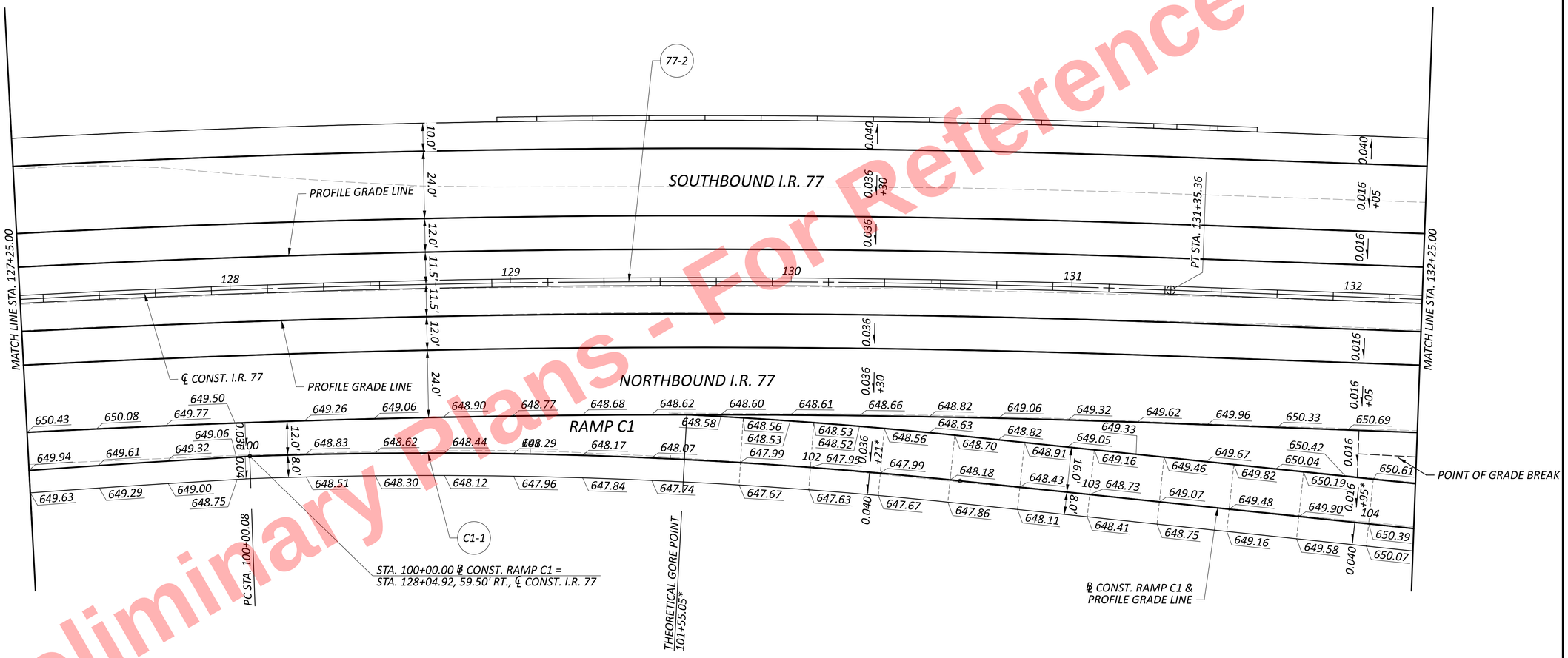

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NOTE: ELEVATIONS ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

* - BEGIN/END CROSS SLOPE TRANSITION

NOTES: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

CURVE 77-2 DATA
P.I. = STA. 117+76.34
Δ = 35°07'04" LT
Dc = 01°15'00"
R = 4,583.66'
T = 1,450.41'
L = 2,809.43'
E = 224.00'

CURVE C1-1 DATA
P.I. = STA. 101+27.03
Δ = 08°01'37" LT
Dc = 03°10'00"
R = 1,809.34'
T = 126.95'
L = 253.48'
E = 4.45'

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERCHANGE DETAILS
RAMP C1

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.665 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:04:40 PM USER: kperkins
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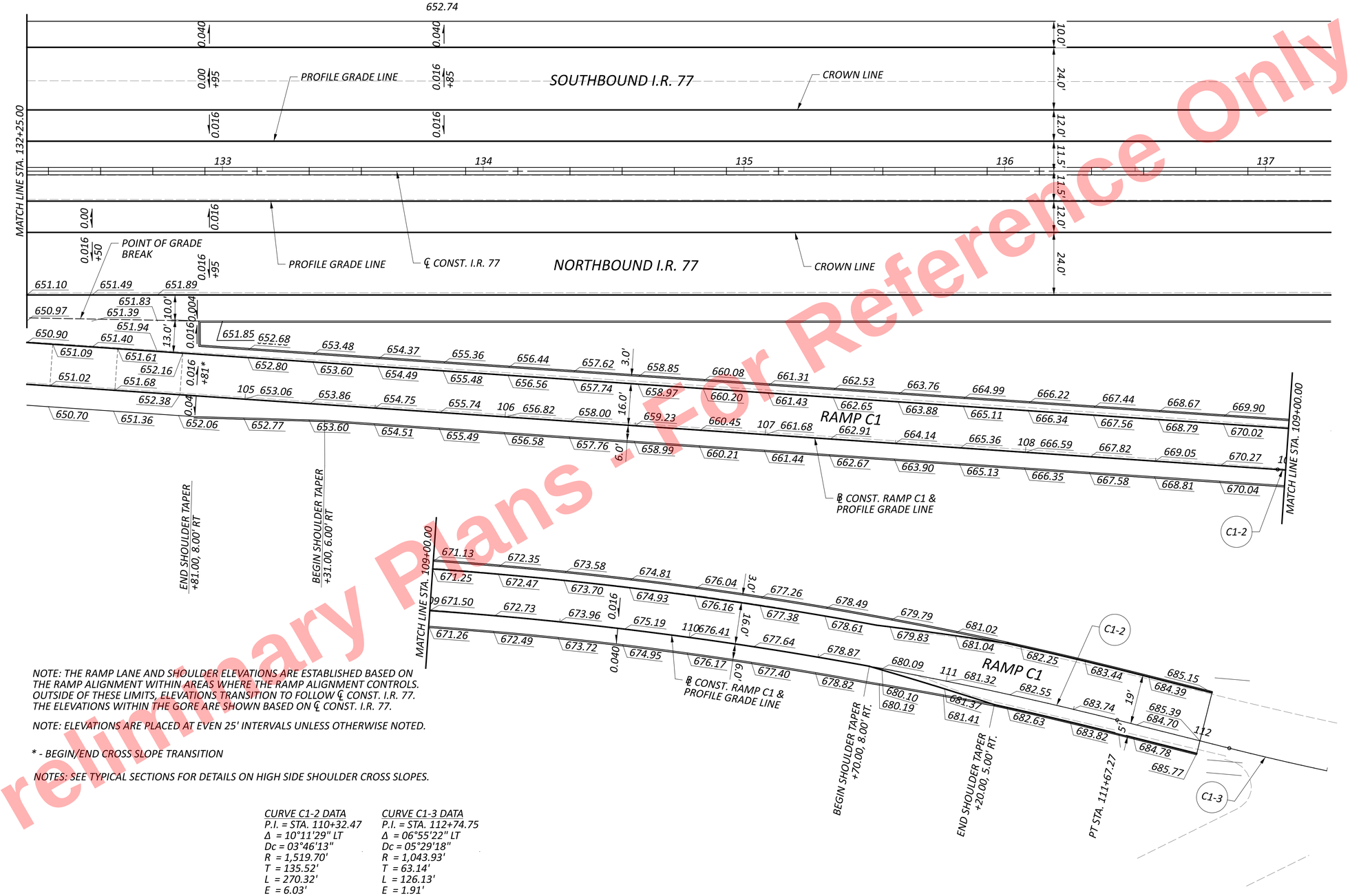

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NOTE: ELEVATIONS ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

** - BEGIN/END CROSS SLOPE TRANSITION*

NOTES: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

CURVE C1-2 DATA	CURVE C1-3 DATA
P.I. = STA. 110+32.47	P.I. = STA. 112+74.75
Δ = 10°11'29" LT	Δ = 06°55'22" LT
Dc = 03°46'13"	Dc = 05°29'18"
R = 1,519.70'	R = 1,043.93'
T = 135.52'	T = 63.14'
L = 270.32'	L = 126.13'
E = 6.03'	E = 1.91'

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERCHANGE DETAILS
RAMP C1

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.666 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:04:41 PM USER: kperkins
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CRETE AVENUE

NOTE: THE RAMP LANE AND SHOULDER ELEVATIONS ARE ESTABLISHED BASED ON THE RAMP ALIGNMENT WITHIN AREAS WHERE THE RAMP ALIGNMENT CONTROLS. OUTSIDE OF THESE LIMITS, ELEVATIONS TRANSITION TO FOLLOW ℄ CONST. I.R. 77. THE ELEVATIONS WITHIN THE GORE ARE SHOWN BASED ON ℄ CONST. I.R. 77.

NOTE: ELEVATIONS ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

* - BEGIN/END CROSS SLOPE TRANSITION

NOTES: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

℄ CONST. RAMP C2 & PROFILE GRADE LINE

BEGIN SHOULDER TAPER +40.00, 4.00' LT

END SHOULDER TAPER +00.00, 0.00' LT

RAMP C2

SOUTHBOUND I.R. 77

NORTHBOUND I.R. 77

℄ CONST. I.R. 77

PROFILE GRADE LINE

PT STA. 147+39.94

POINT OF GRADE BREAK

RAMP C3

FLEET AVENUE

MATCH LINE STA. 303+00.00

MATCH LINE STA. 150+00.00

STA. 300+00.00 ℄ CONST. RAMP C3 = STA. 3+56.85, ℄ EX. R/W C.R. 743

℄ CONST. RAMP C3 & PROFILE GRADE LINE

BEGIN SHOULDER TAPER +43.62, 6.00' RT.

END SHOULDER TAPER +93.62*, 8.00' RT.

C3-1

C3-2

77-3

CURVE 77-3 DATA
P.I. = STA. 144+13.27
Δ = 04°54'11" LT
Dc = 00°45'00"
R = 7,639.44'
T = 327.07'
L = 653.74'
E = 7.00'

CURVE C3-1 DATA
P.I. = STA. 300+00.00
Δ = 00°00'00" LT
Dc = 00°00'00"
R = 0.00'
T = 0.00'
L = 0.00'
E = 0.00'

SPIRAL C3-2 DATA
P.I. = STA. 305+60.34
Ls = 200.00'
θs = 04°59'59"
LT = 133.39'
ST = 66.72'
x = 199.85'
y = 5.81'
k = 99.97'
p = 1.45'
C = 199.93'
Start = Sta. 304+93.62
End = Sta. 306+93.62
C.B. = N01°07'47"E

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERCHANGE DETAILS RAMPS C2 & C3

DESIGN AGENCY HNTB

DESIGNER MTD

REVIEWER KKP 05/02/22

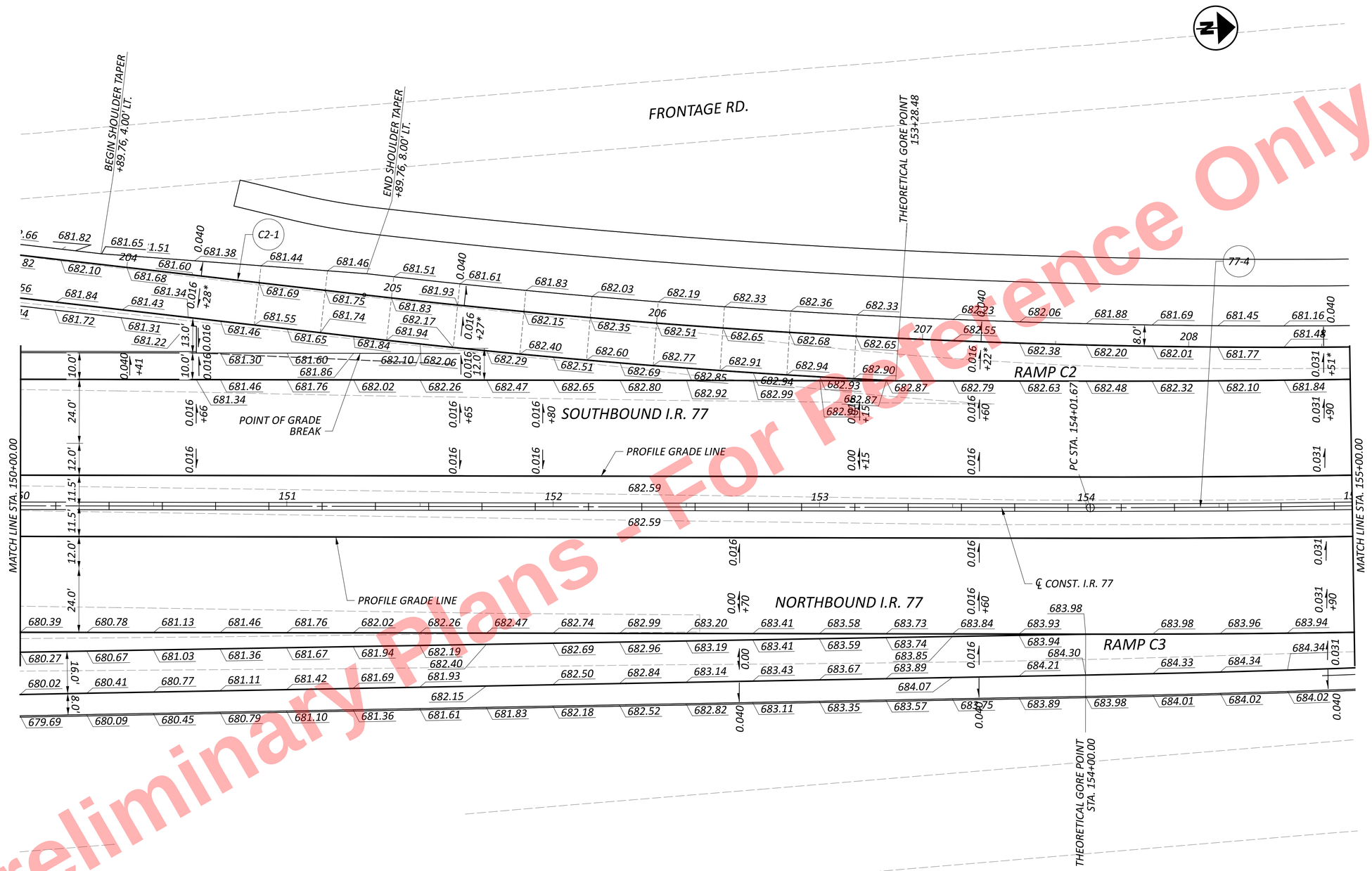
PROJECT ID 105743

SHEET P.667 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:04:59 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GI401.dgn

Preliminary Plans - For Reference Only



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NOTE: ELEVATIONS ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

* - BEGIN/END CROSS SLOPE TRANSITION

NOTES: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

CURVE 77-4 DATA
P.I. = STA. 159+82.97
Δ = 11°55'19" LT
Dc = 01°01'45"
R = 5,567.12'
T = 581.30'
L = 1,158.40'
E = 30.27'

CURVE C3-1 DATA
P.I. = STA. 304+52.78
Δ = 04°05'07" RT
Dc = 04°59'59"
R = 1,146.00'
T = 40.87'
L = 81.71'
E = .73'

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

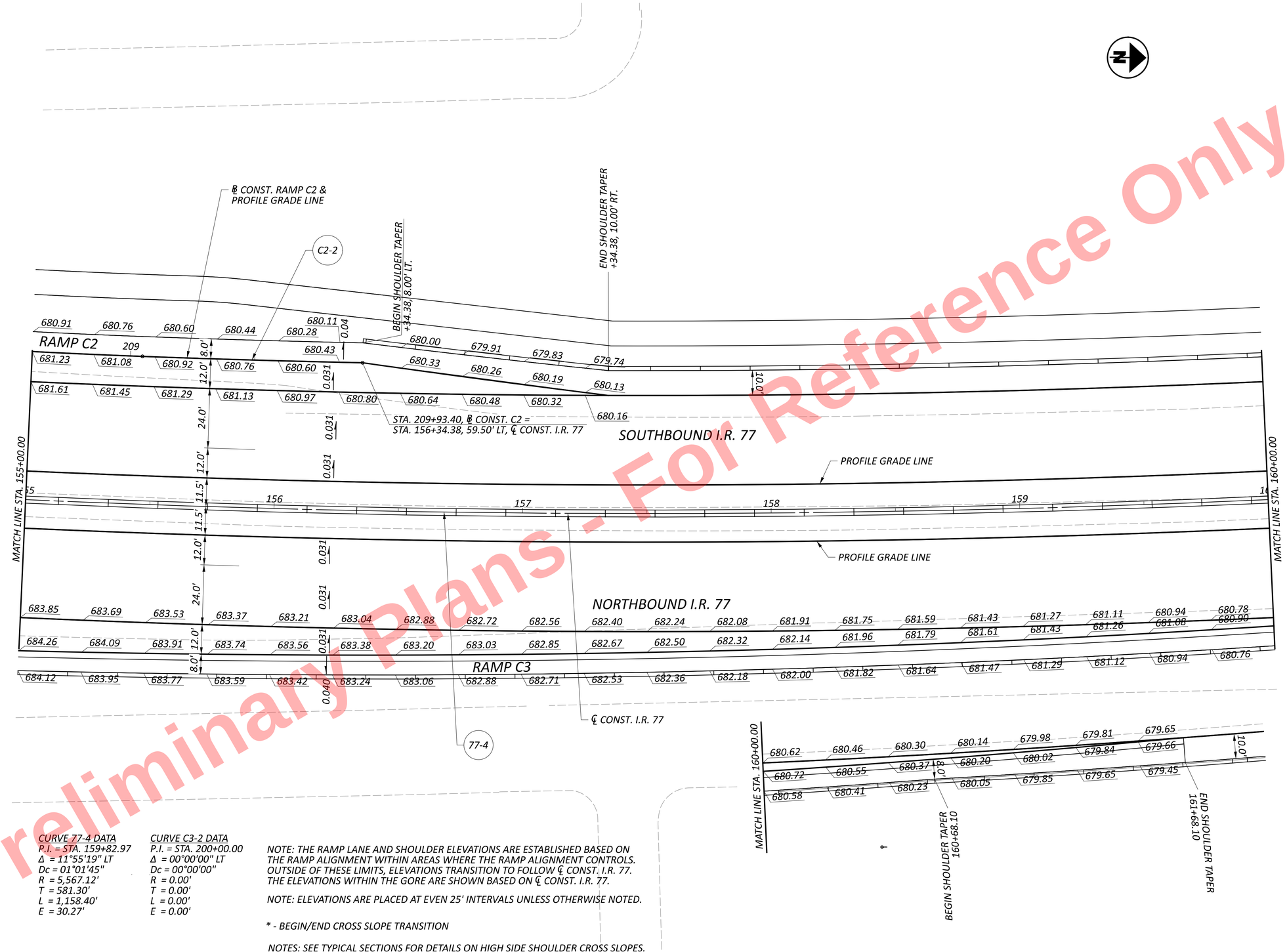
INTERCHANGE DETAILS
RAMPS C2 & C3

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.668 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:05:00 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GI401.dgn



CURVE 77-4 DATA
P.I. = STA. 159+82.97
Δ = 11°55'19" LT
Dc = 01°01'45"
R = 5,567.12'
T = 581.30'
L = 1,158.40'
E = 30.27'

CURVE C3-2 DATA
P.I. = STA. 200+00.00
Δ = 00°00'00" LT
Dc = 00°00'00"
R = 0.00'
T = 0.00'
L = 0.00'
E = 0.00'

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** - BEGIN/END CROSS SLOPE TRANSITION*

NOTES: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERCHANGE DETAILS
RAMP D2

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:05:02 PM USER: kperkins
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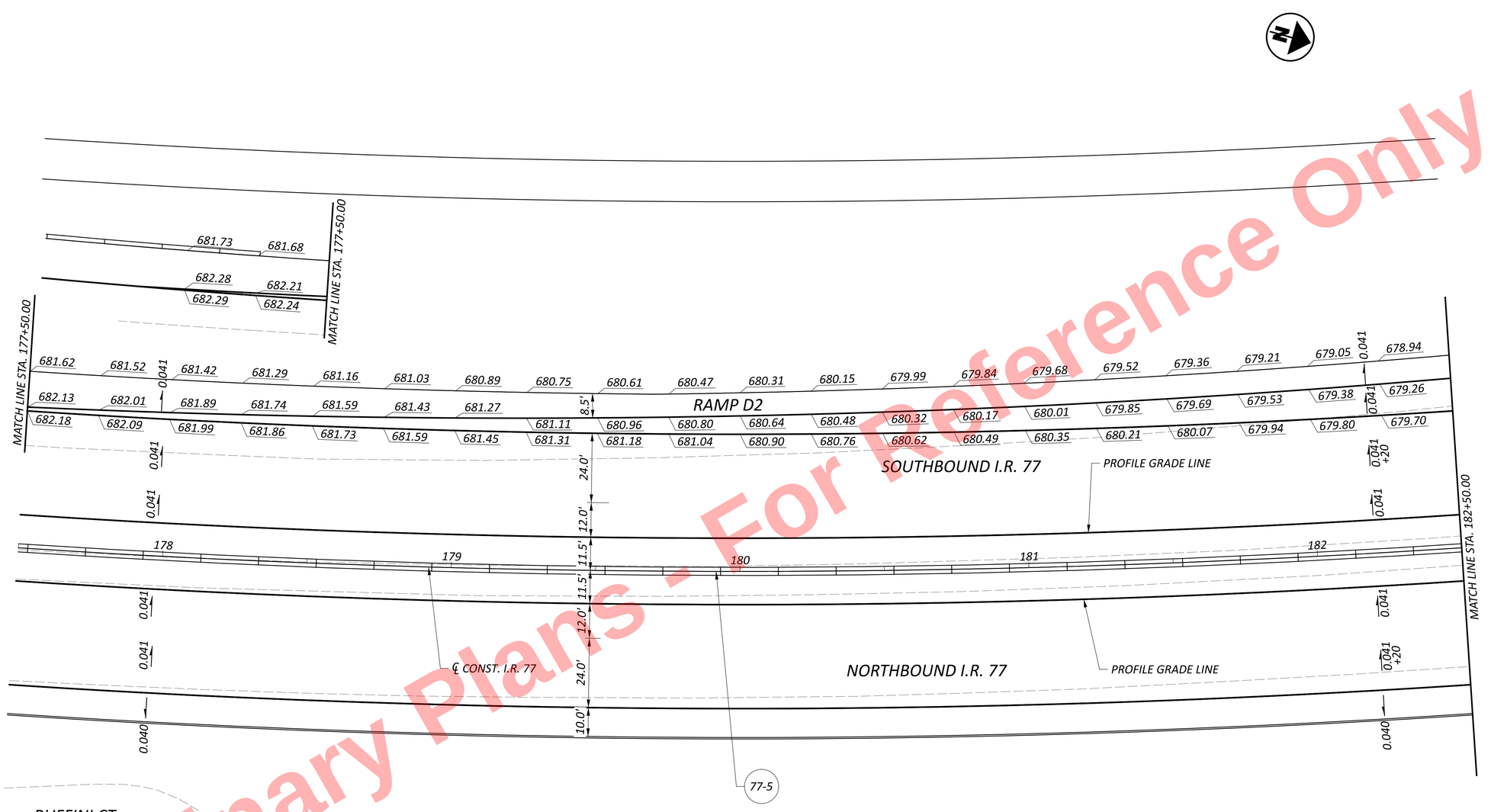
DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.669 TOTAL P.1269



Preliminary Plans - For Reference Only

NOTE: THE RAMP LANE AND SHOULDER ELEVATIONS ARE ESTABLISHED BASED ON THE RAMP ALIGNMENT WITHIN AREAS WHERE THE RAMP ALIGNMENT CONTROLS. OUTSIDE OF THESE LIMITS, ELEVATIONS TRANSITION TO FOLLOW ℄ CONST. I.R. 77. THE ELEVATIONS WITHIN THE GORE ARE SHOWN BASED ON ℄ CONST. I.R. 77.

NOTE: ELEVATIONS ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

* - BEGIN/END CROSS SLOPE TRANSITION

NOTES: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

CURVE 77-5 DATA
P.I. = STA. 179+84.25
Δ = 12°17'21" LT
Dc = 01°30'00"
R = 3,819.72'
T = 411.22'
L = 819.28'
E = 22.07'

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERCHANGE DETAILS I.R. 77

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.670 TOTAL P.1269

CUY-77-11.41 - PART 1

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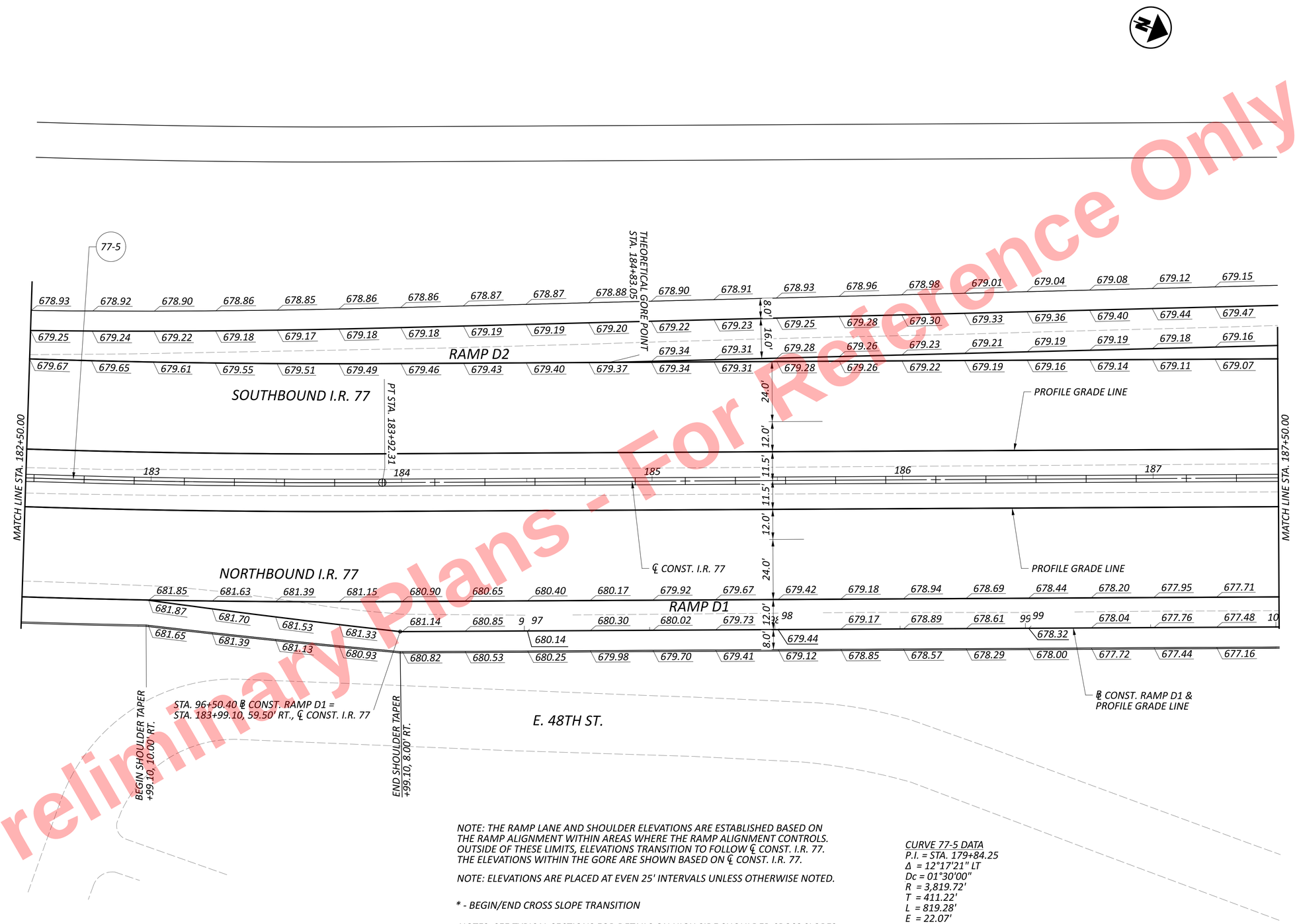

NOTE: THE RAMP LANE AND SHOULDER ELEVATIONS ARE ESTABLISHED BASED ON THE RAMP ALIGNMENT WITHIN AREAS WHERE THE RAMP ALIGNMENT CONTROLS. OUTSIDE OF THESE LIMITS, ELEVATIONS TRANSITION TO FOLLOW ℄ CONST. I.R. 77. THE ELEVATIONS WITHIN THE GORE ARE SHOWN BASED ON ℄ CONST. I.R. 77.

NOTE: ELEVATIONS ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

* - BEGIN/END CROSS SLOPE TRANSITION

NOTES: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

CURVE 77-5 DATA
P.I. = STA. 179+84.25
Δ = 12°17'21" LT
Dc = 01°30'00"
R = 3,819.72'
T = 411.22'
L = 819.28'
E = 22.07'

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERCHANGE DETAILS
RAMPS D1 & D2

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.671 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan S [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:05:04 PM USER: kperkins
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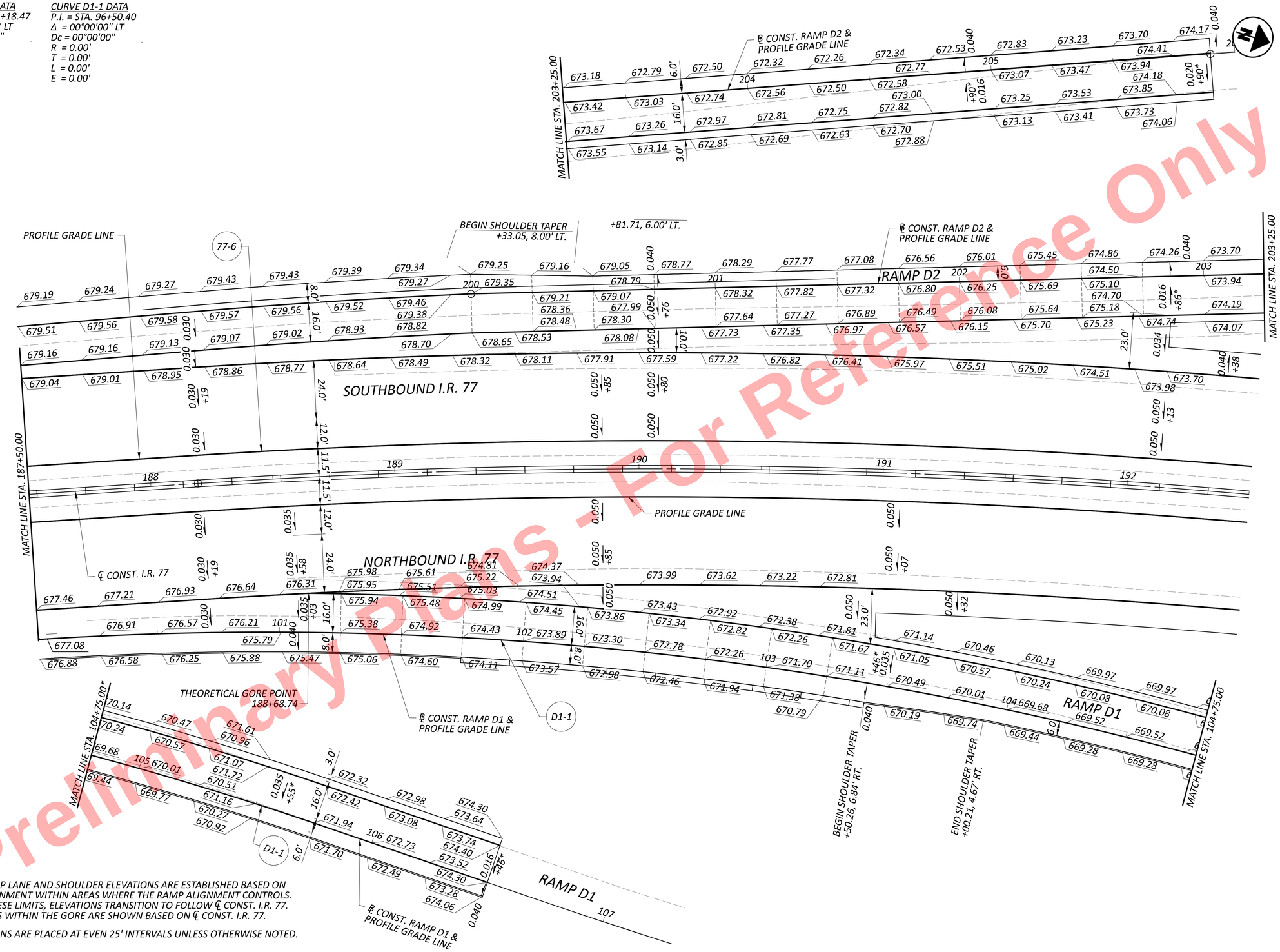
CURVE 77-6 DATA
P.I. = STA. 192+18.47
Δ = 15°51'54" LT
Dc = 02°00'00"
R = 2,864.79'
T = 399.18'
L = 793.25'
E = 27.68'

CURVE D1-1 DATA
P.I. = STA. 96+50.40
Δ = 00°00'00" LT
Dc = 00°00'00"
R = 0.00'
T = 0.00'
L = 0.00'
E = 0.00'



NOTE: THE RAMP LANE AND SHOULDER ELEVATIONS ARE ESTABLISHED BASED ON THE RAMP ALIGNMENT WITHIN AREAS WHERE THE RAMP ALIGNMENT CONTROLS. OUTSIDE OF THESE LIMITS, ELEVATIONS TRANSITION TO FOLLOW ℄ CONST. I.R. 77. THE ELEVATIONS WITHIN THE GORE ARE SHOWN BASED ON ℄ CONST. I.R. 77.

NOTE: ELEVATIONS ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

* - BEGIN/END CROSS SLOPE TRANSITION

NOTES: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERCHANGE DETAILS
RAMPS D1 & D2

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.672 TOTAL P.1269

CUY-77-11.41 - PART 1

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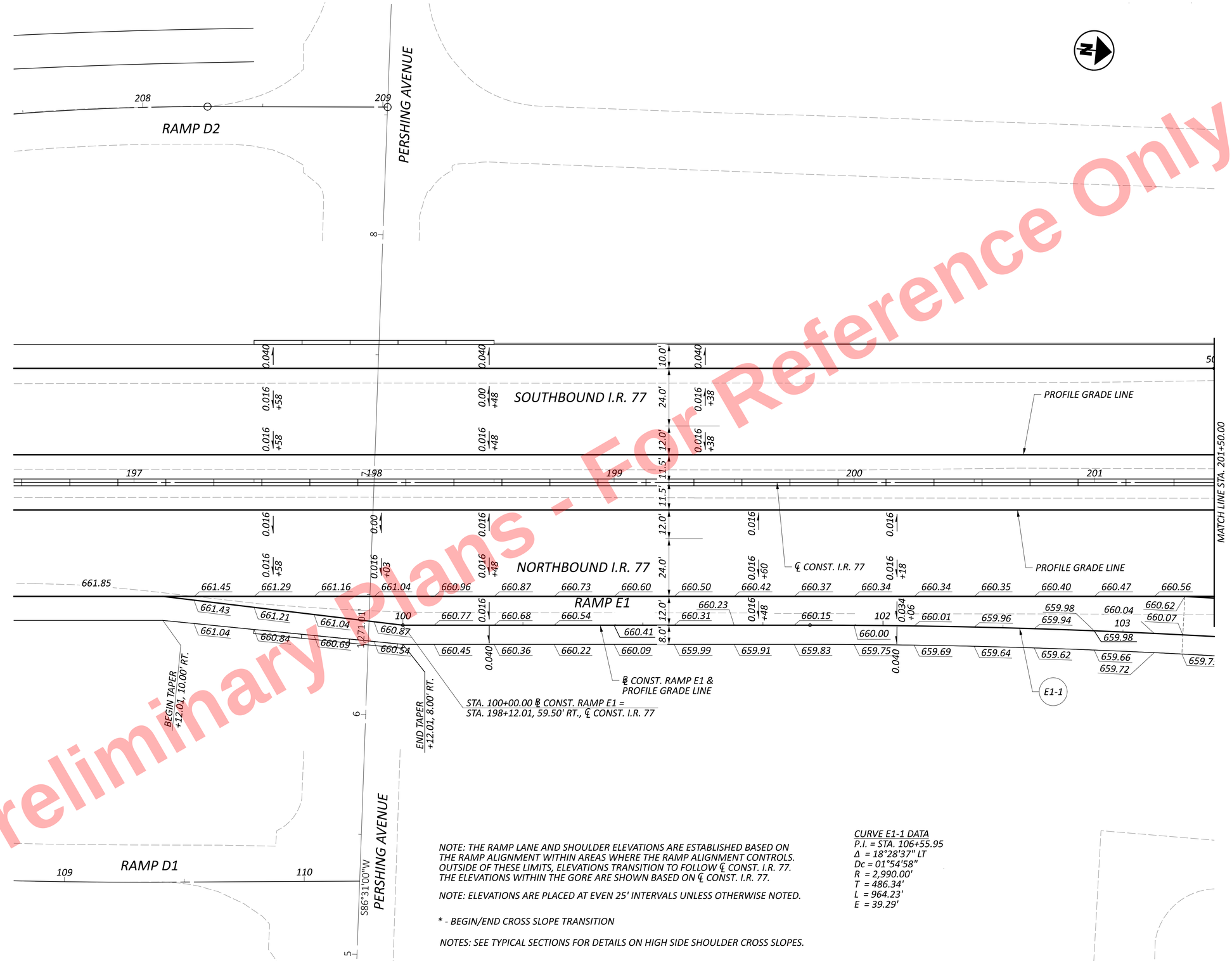

NOTE: THE RAMP LANE AND SHOULDER ELEVATIONS ARE ESTABLISHED BASED ON THE RAMP ALIGNMENT WITHIN AREAS WHERE THE RAMP ALIGNMENT CONTROLS. OUTSIDE OF THESE LIMITS, ELEVATIONS TRANSITION TO FOLLOW ℄ CONST. I.R. 77. THE ELEVATIONS WITHIN THE GORE ARE SHOWN BASED ON ℄ CONST. I.R. 77.

NOTE: ELEVATIONS ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

* - BEGIN/END CROSS SLOPE TRANSITION

NOTES: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

CURVE E1-1 DATA
P.I. = STA. 106+55.95
Δ = 18°28'37" LT
Dc = 01°54'58"
R = 2,990.00'
T = 486.34'
L = 964.23'
E = 39.29'

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERCHANGE DETAILS
RAMP E1

DESIGN AGENCY
HNTB

DESIGNER	MTD
REVIEWER	KKP 05/02/22
PROJECT ID	105743
SHEET	P.673
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:05:12 PM USER: kperkins
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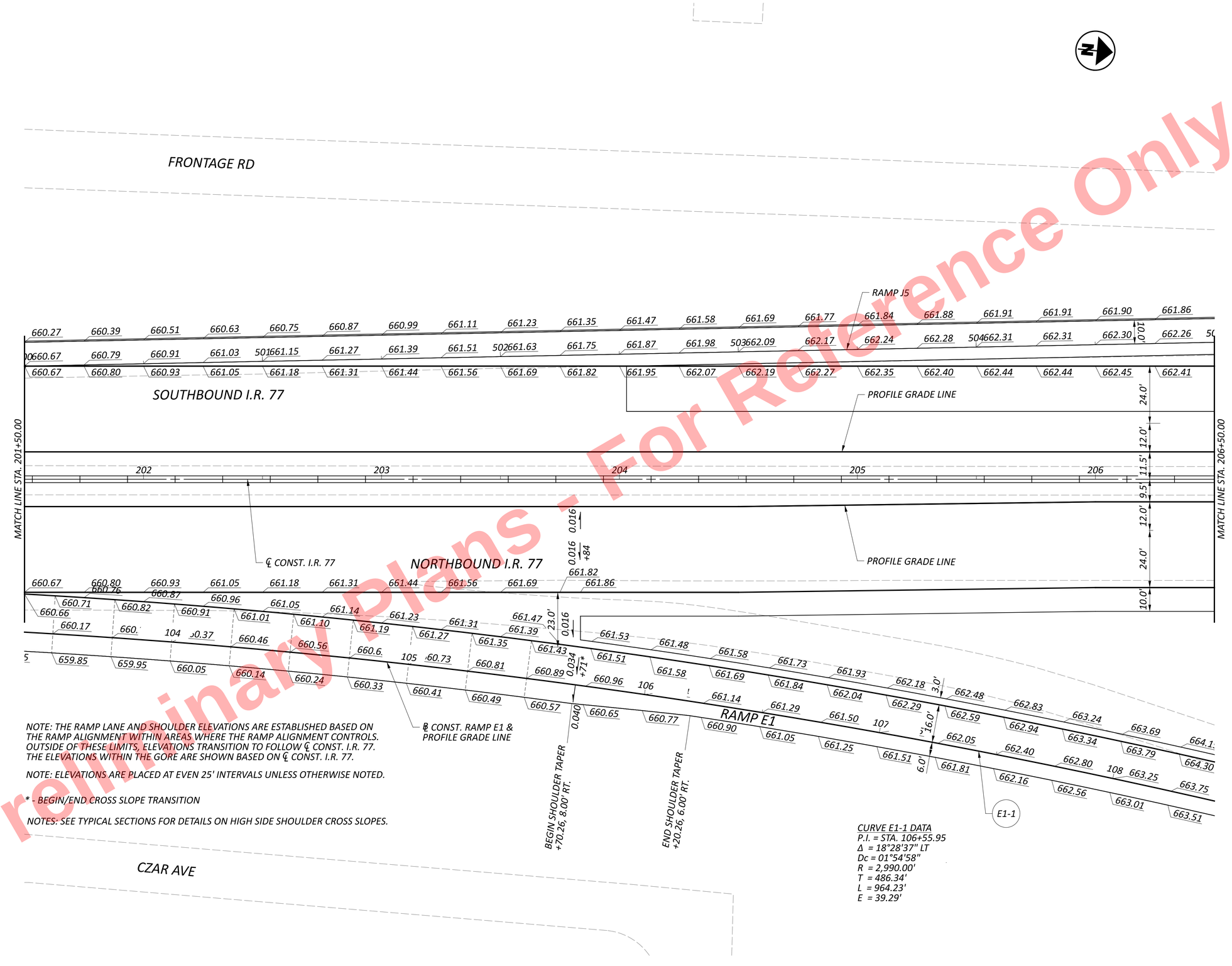
Preliminary Plans - For Reference Only



NOTE: THE RAMP LANE AND SHOULDER ELEVATIONS ARE ESTABLISHED BASED ON THE RAMP ALIGNMENT WITHIN AREAS WHERE THE RAMP ALIGNMENT CONTROLS. OUTSIDE OF THESE LIMITS, ELEVATIONS TRANSITION TO FOLLOW ℄ CONST. I.R. 77. THE ELEVATIONS WITHIN THE GORE ARE SHOWN BASED ON ℄ CONST. I.R. 77.

NOTE: ELEVATIONS ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

* - BEGIN/END CROSS SLOPE TRANSITION

NOTES: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

CURVE E1-1 DATA
P.I. = STA. 106+55.95
Δ = 18°28'37" LT
Dc = 01°54'58"
R = 2,990.00'
T = 486.34'
L = 964.23'
E = 39.29'

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERCHANGE DETAILS
RAMP E1

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:05:13 PM USER: kperkins
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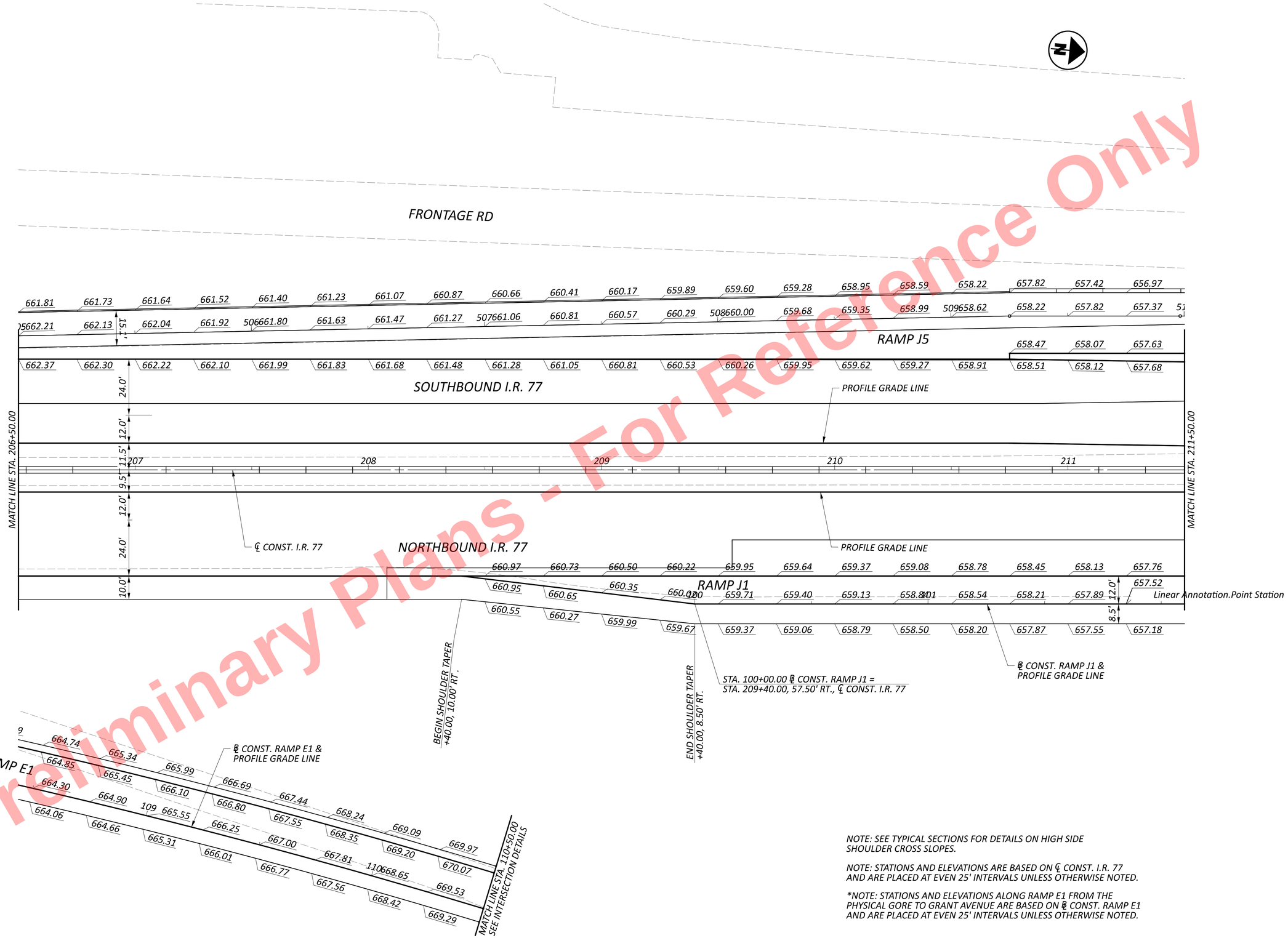
DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.674 TOTAL P.1269



NOTE: SEE TYPICAL SECTIONS FOR DETAILS ON HIGH SIDE SHOULDER CROSS SLOPES.

NOTE: STATIONS AND ELEVATIONS ARE BASED ON ℄ CONST. I.R. 77 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

*NOTE: STATIONS AND ELEVATIONS ALONG RAMP E1 FROM THE PHYSICAL GORE TO GRANT AVENUE ARE BASED ON ℄ CONST. RAMP E1 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERCHANGE DETAILS
RAMP E1

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.675 TOTAL P.1269

CUY-77-11.41 - PART 1

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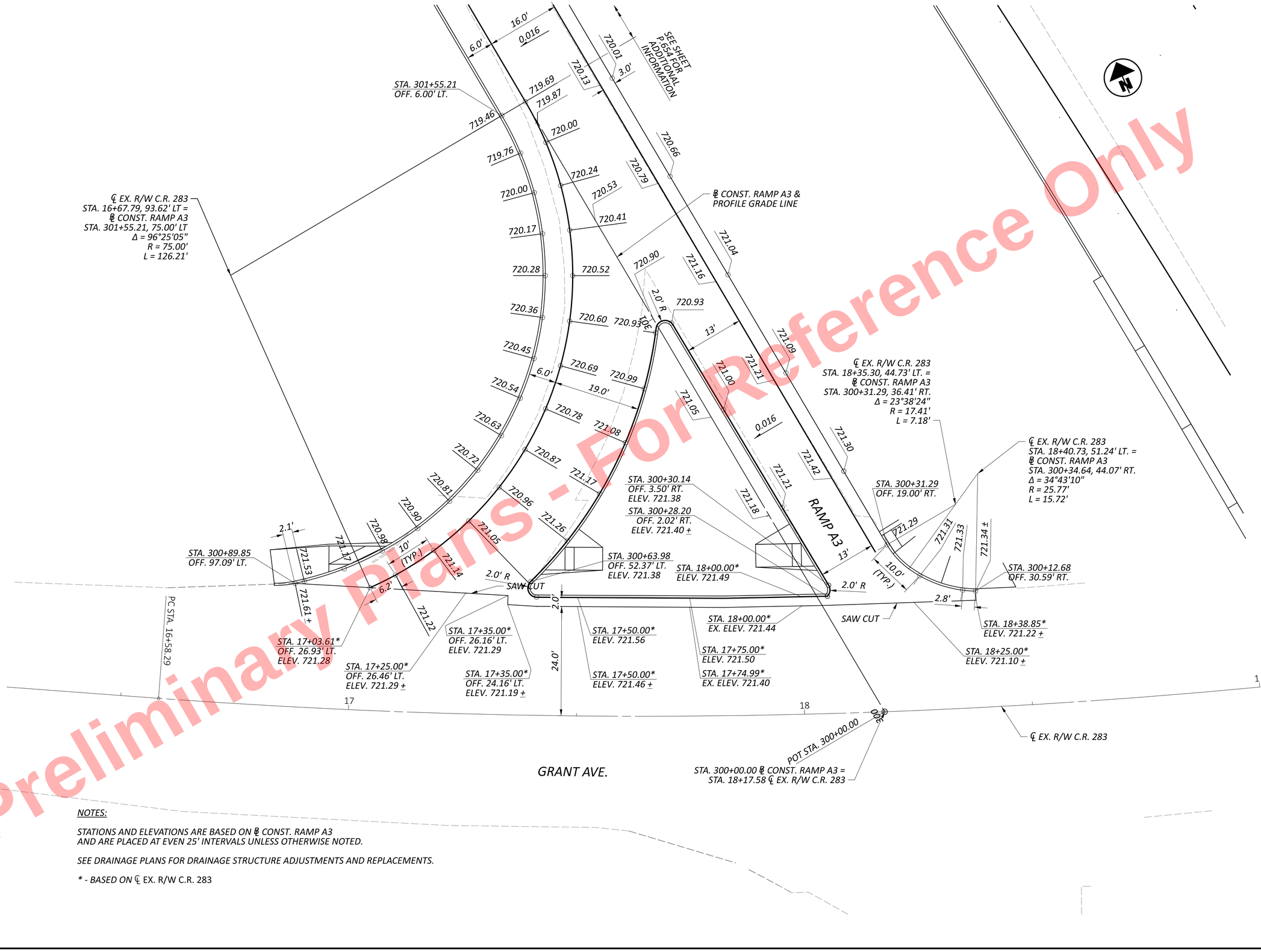

Preliminary Plans - For Reference Only

NOTES:

STATIONS AND ELEVATIONS ARE BASED ON ℗ CONST. RAMP A3
AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

SEE DRAINAGE PLANS FOR DRAINAGE STRUCTURE ADJUSTMENTS AND REPLACEMENTS.

* - BASED ON ℄ EX. R/W C.R. 283

HORIZONTAL SCALE IN FEET
0 5 10 20

INTERSECTION DETAILS RAMP A3

CUY-77-11.41 - PART 1

MODEL: CIX_RW_C283 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:05:27 PM USER: kperkins
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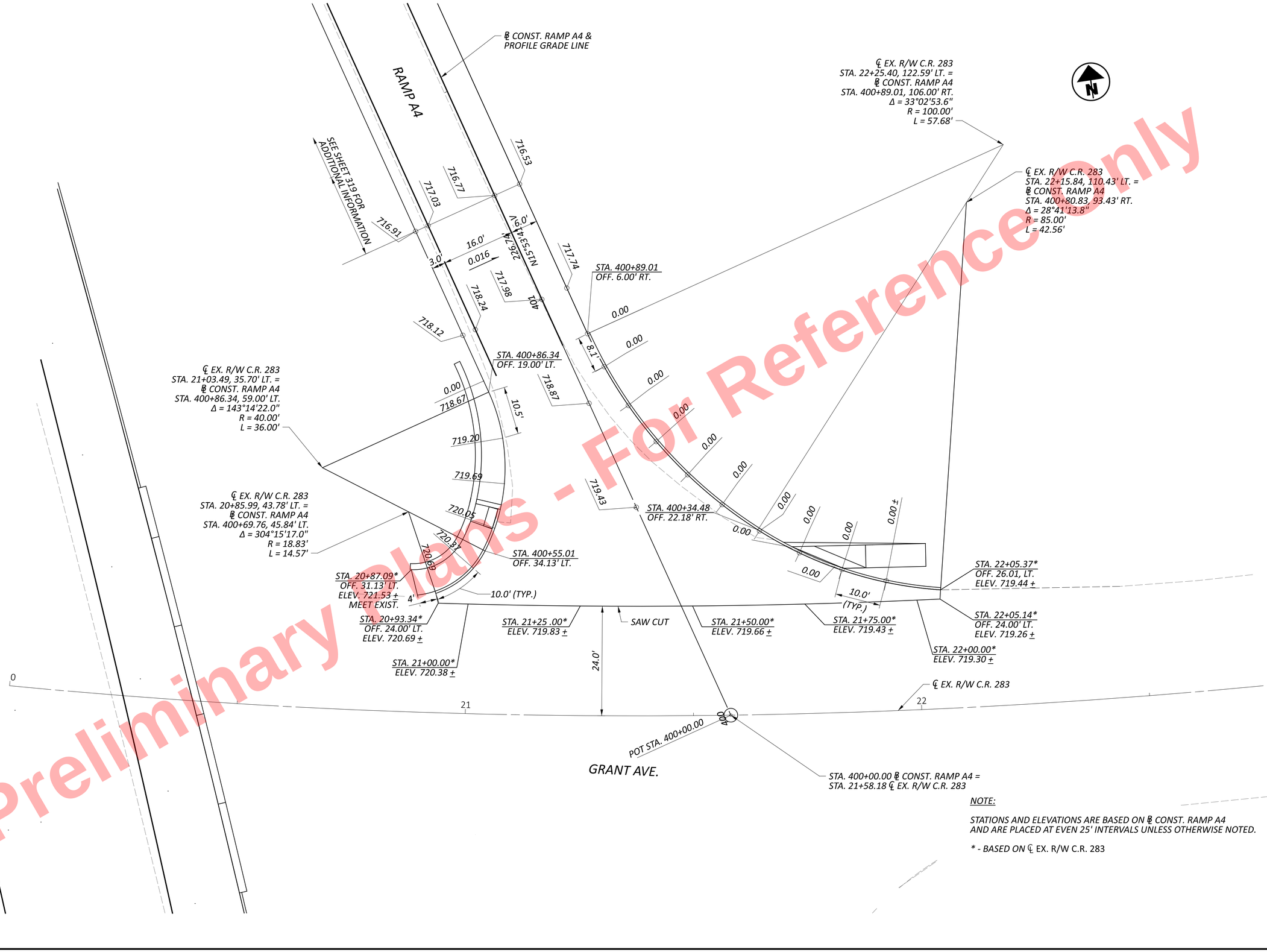
DESIGN AGENCY
HNTB

DESIGNER	MTD
REVIEWER	KKP 05/02/22
PROJECT ID	105743
SHEET	P.676
TOTAL	P.1269



NOTE:

STATIONS AND ELEVATIONS ARE BASED ON ℄ CONST. RAMP A4 AND ARE PLACED AT EVEN 25' INTERVALS UNLESS OTHERWISE NOTED.

* - BASED ON ℄ EX. R/W C.R. 283

Preliminary plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 5 10 20

INTERSECTION DETAILS RAMP A4

DESIGN AGENCY
HNTB

DESIGNER	MTD
REVIEWER	KKP 05/02/22
PROJECT ID	105743
SHEET	P.677
TOTAL	P.1269

CUY-77-11.41 - PART 1

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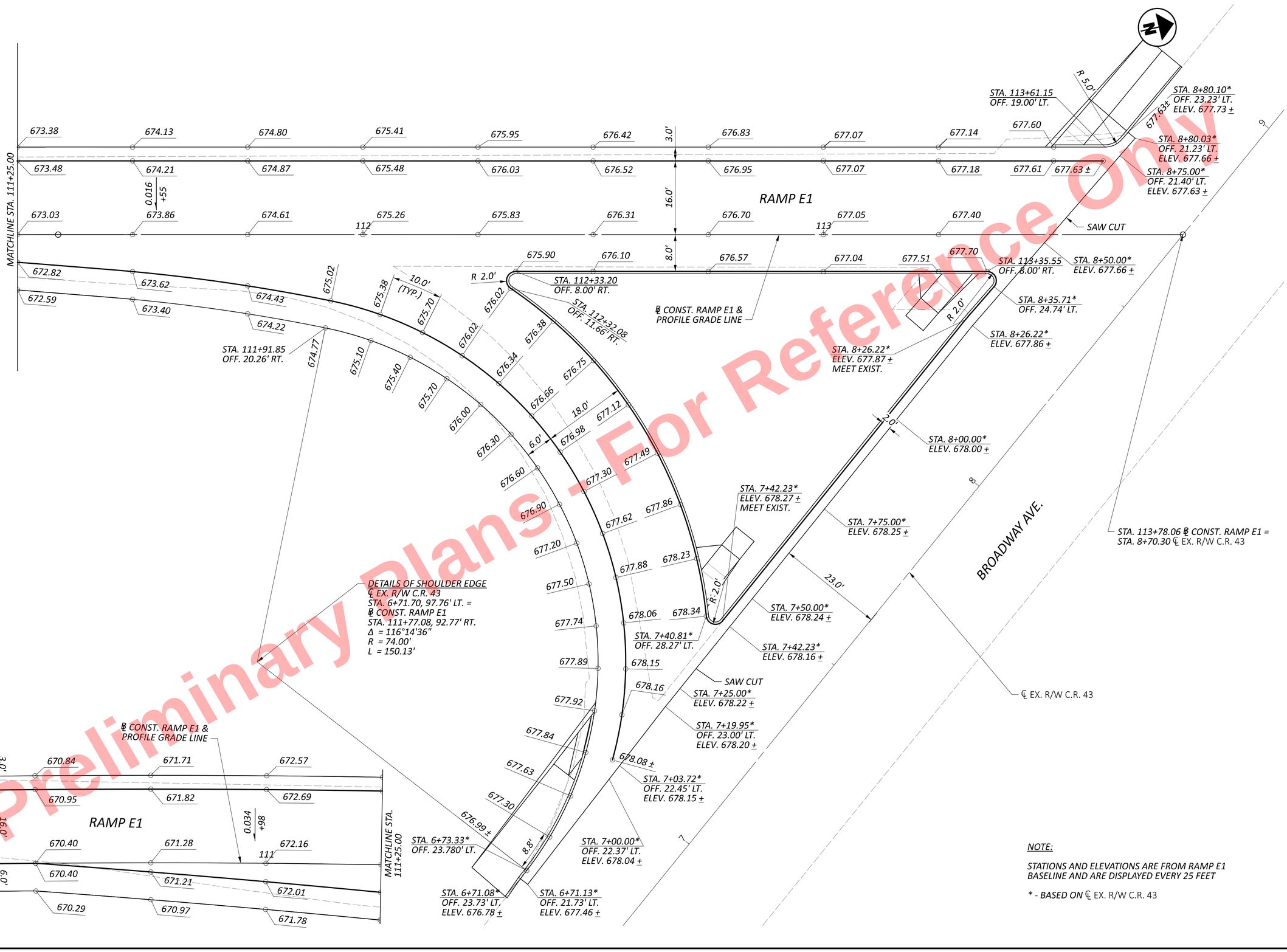

Preliminary Plans - For Reference Only

INTERSECTION DETAILS
RAMP E1

DESIGN AGENCY
HNTB

DESIGNER	MTD
REVIEWER	KKP 05/02/22
PROJECT ID	105743
SHEET	P.678
TOTAL	P.1269

CUY-77-11.41 - PART 1

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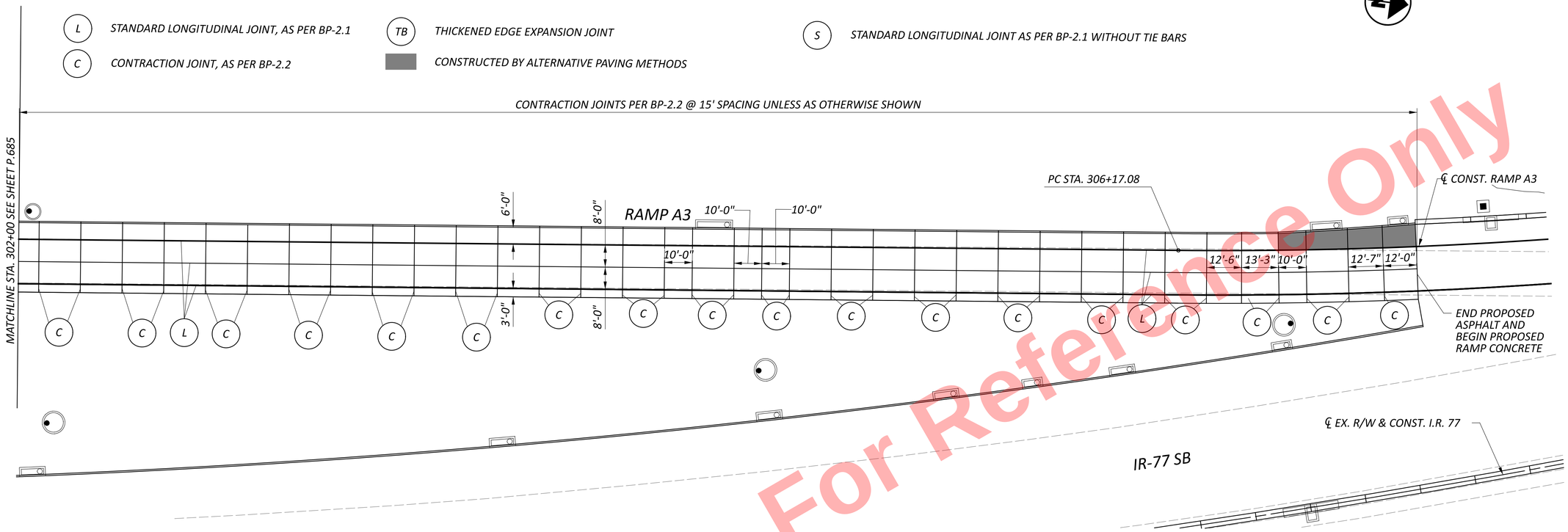
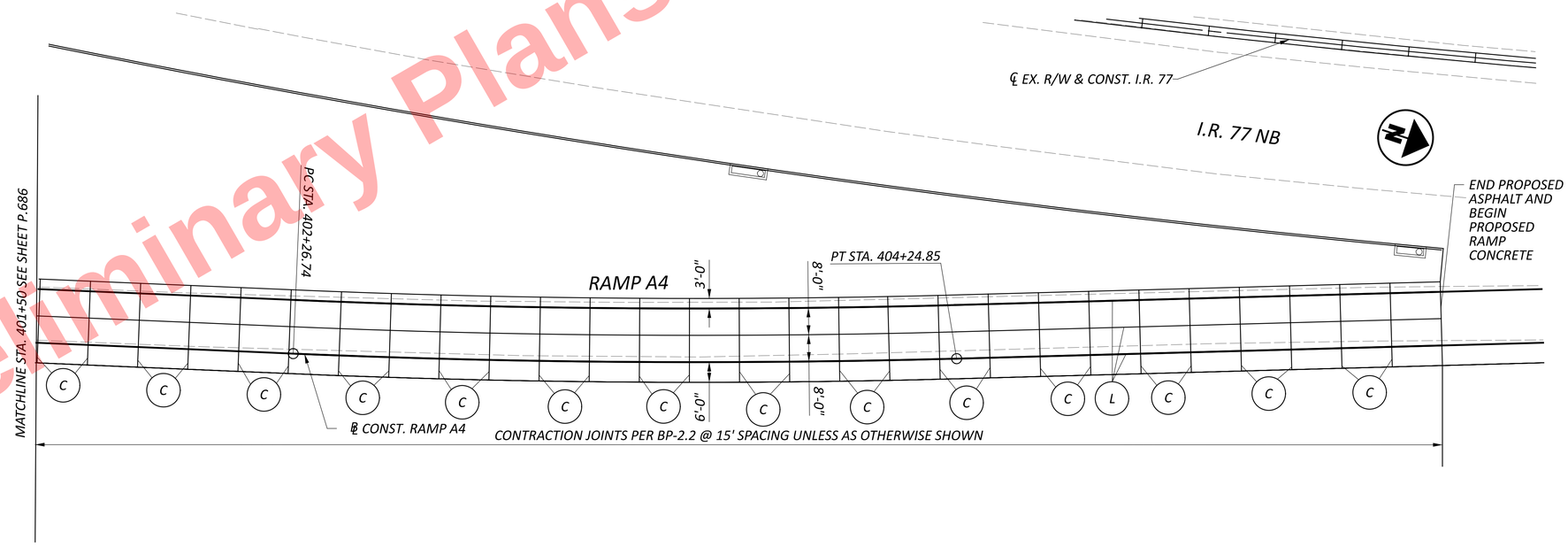
PAVEMENT DETAIL LEGEND

- L — STANDARD LONGITUDINAL JOINT, AS PER BP-2.1
- C — CONTRACTION JOINT, AS PER BP-2.2
- TB — THICKENED EDGE EXPANSION JOINT
- CONSTRUCTED BY ALTERNATIVE PAVING METHODS
- S — STANDARD LONGITUDINAL JOINT AS PER BP-2.1 WITHOUT TIE BARS





Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PAVEMENT JOINT DETAILS RAMPS A3 & A4

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 07/23/24
PROJECT ID 105743
SHEET P.679 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R283A4 - A3-A4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 2:00:26 AM USER: kperkins
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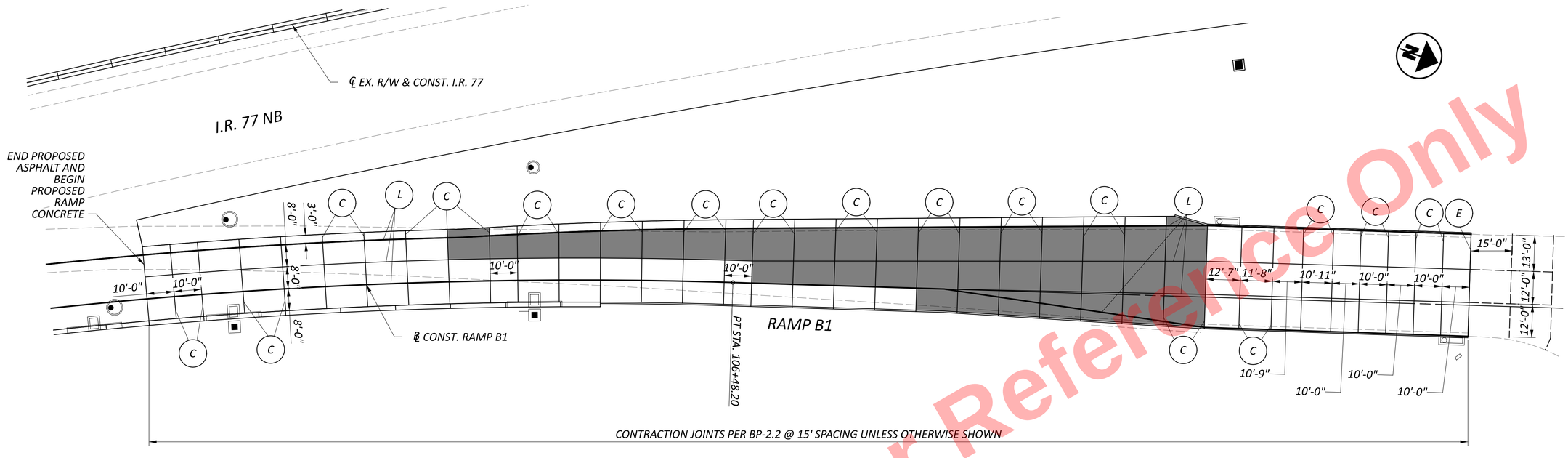
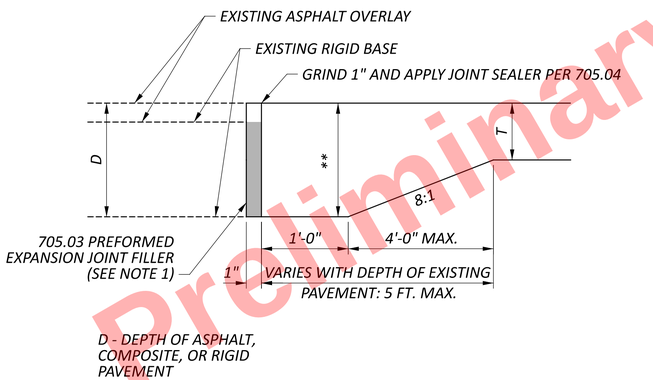
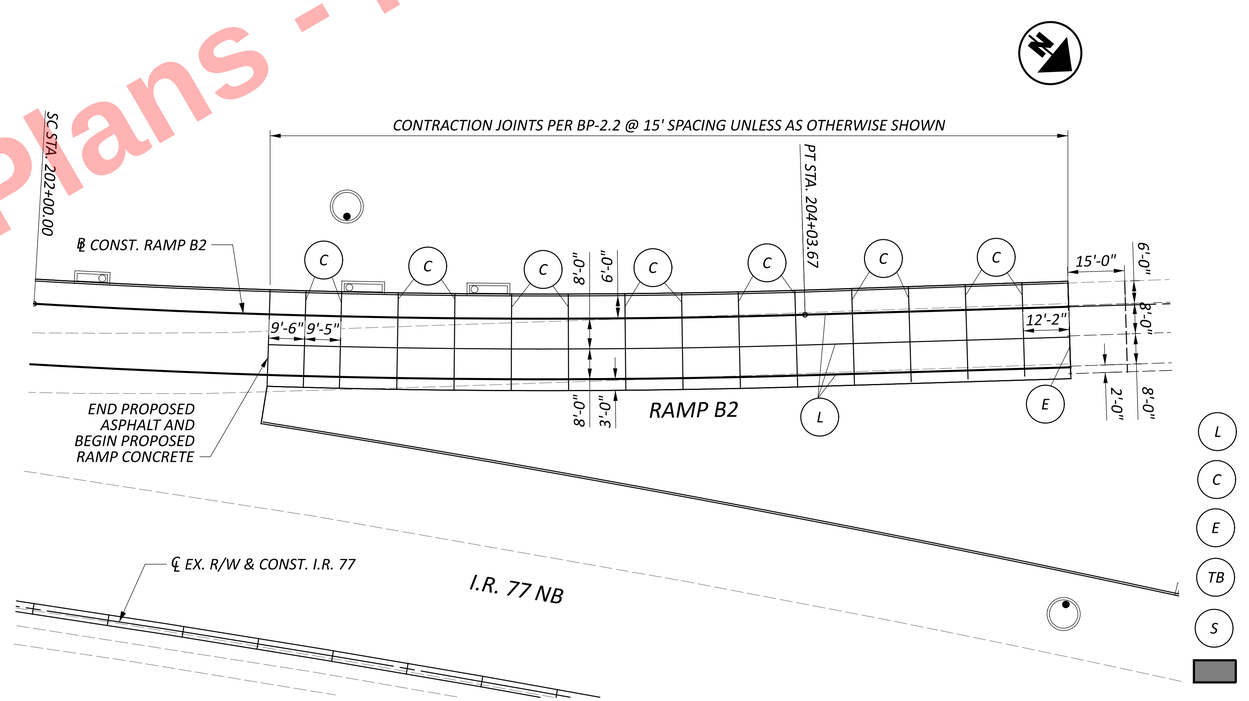




T - THICKENED EDGE EXPANSION JOINT

1. PEJF NOT REQUIRED WHEN ABUTTING FULL DEPTH ASPHALT PAVEMENT



PAVEMENT DETAIL LEGEND

L	STANDARD LONGITUDINAL JOINT, AS PER BP-2.1
C	CONTRACTION JOINT, AS PER BP-2.2
E	EXPANSION JOINT, AS PER BP-2.2
TB	THICKENED EDGE EXPANSION JOINT
S	STANDARD LONGITUDINAL JOINT AS PER BP-2.1 WITHOUT TIE BARS
	CONSTRUCTED BY ALTERNATIVE PAVING METHODS

HORIZONTAL SCALE IN FEET
0 10 20 40

PAVEMENT JOINT DETAILS RAMPS B1 & B2

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 07/23/24
PROJECT ID 105743
SHEET P.680 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: BLP_R283A4 - B1-B2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 2:00:27 AM USER: kperkins
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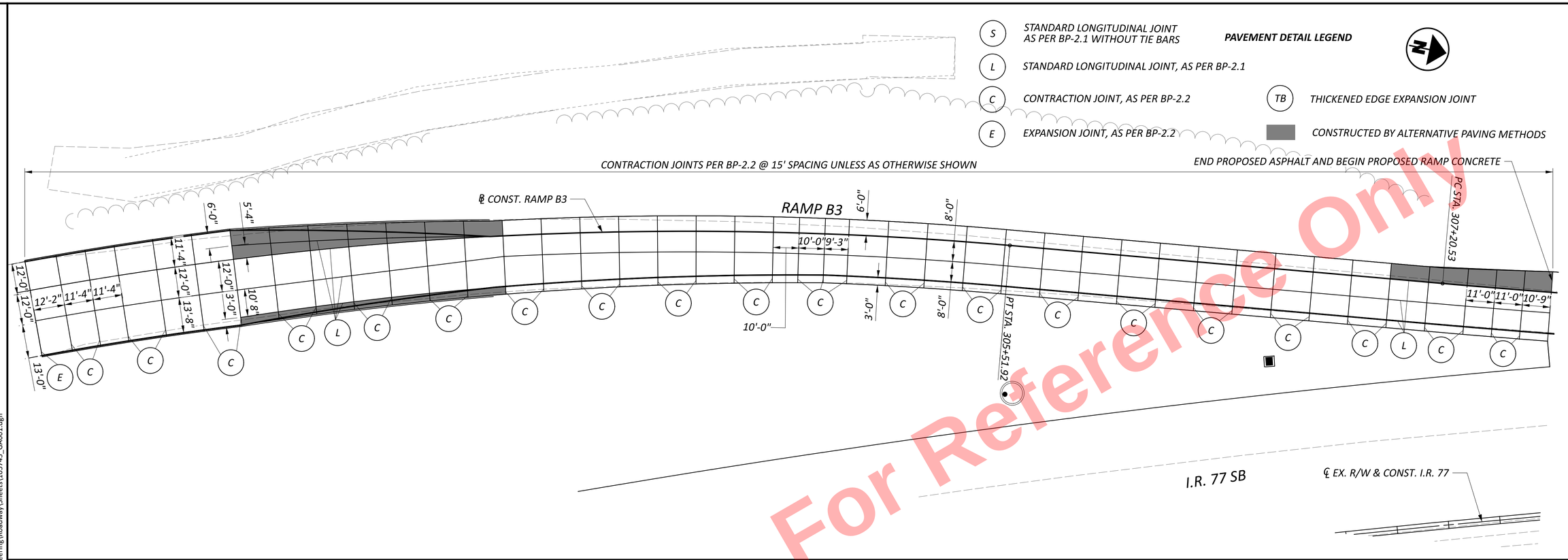
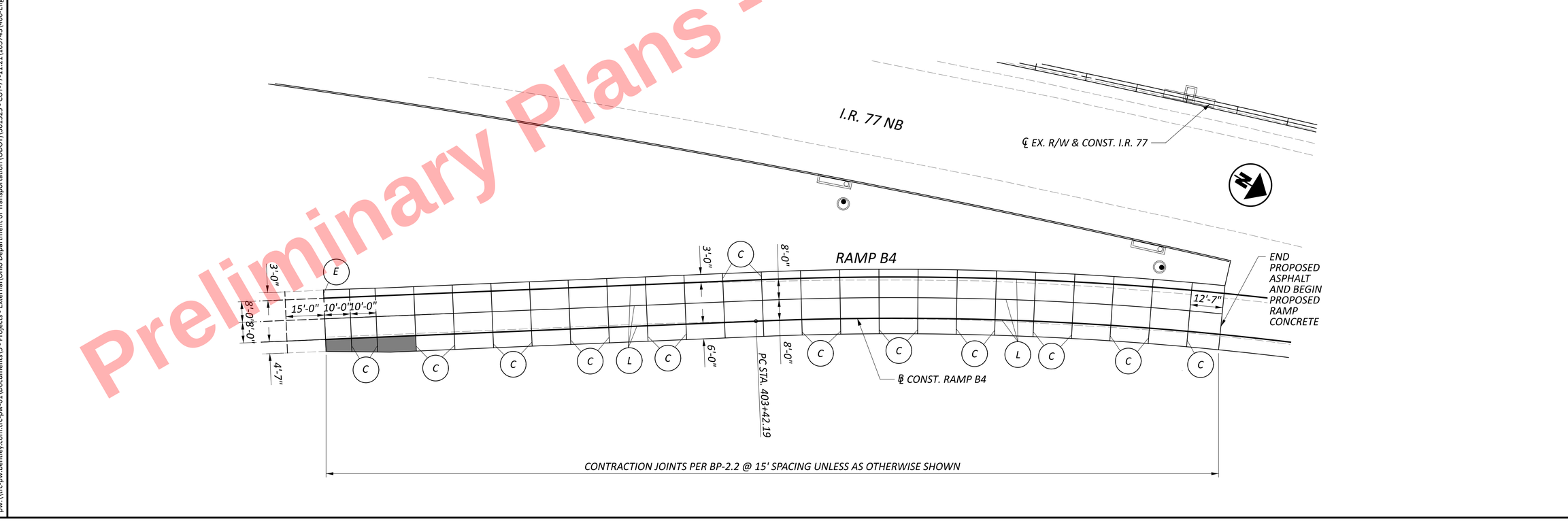
Preliminary Plans - For Reference Only





Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET 0 10 20 40

PAVEMENT JOINT DETAILS RAMPS B3 & B4

DESIGN AGENCY HNTB

DESIGNER SJT

REVIEWER KKP 07/23/24

PROJECT ID 105743

SHEET P.681 TOTAL P.1269

CUY-77-11.41 - PART 1

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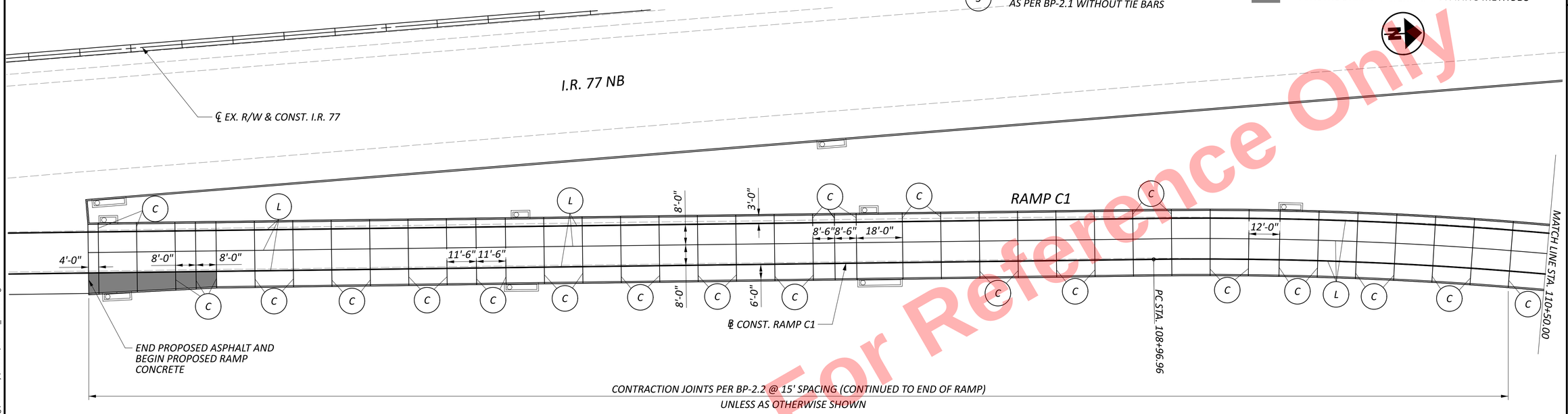
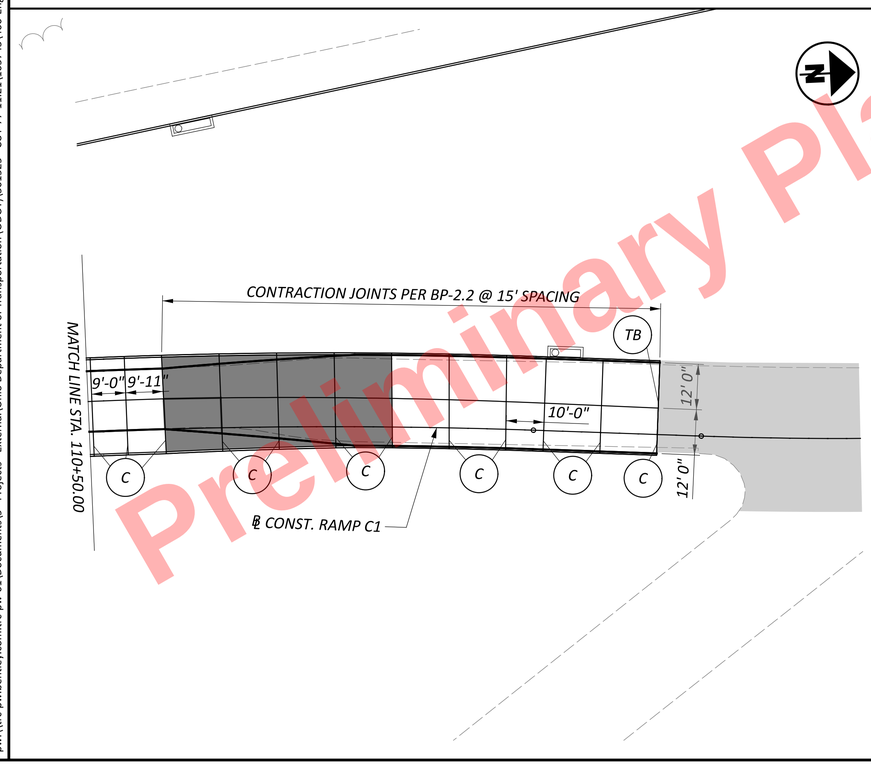
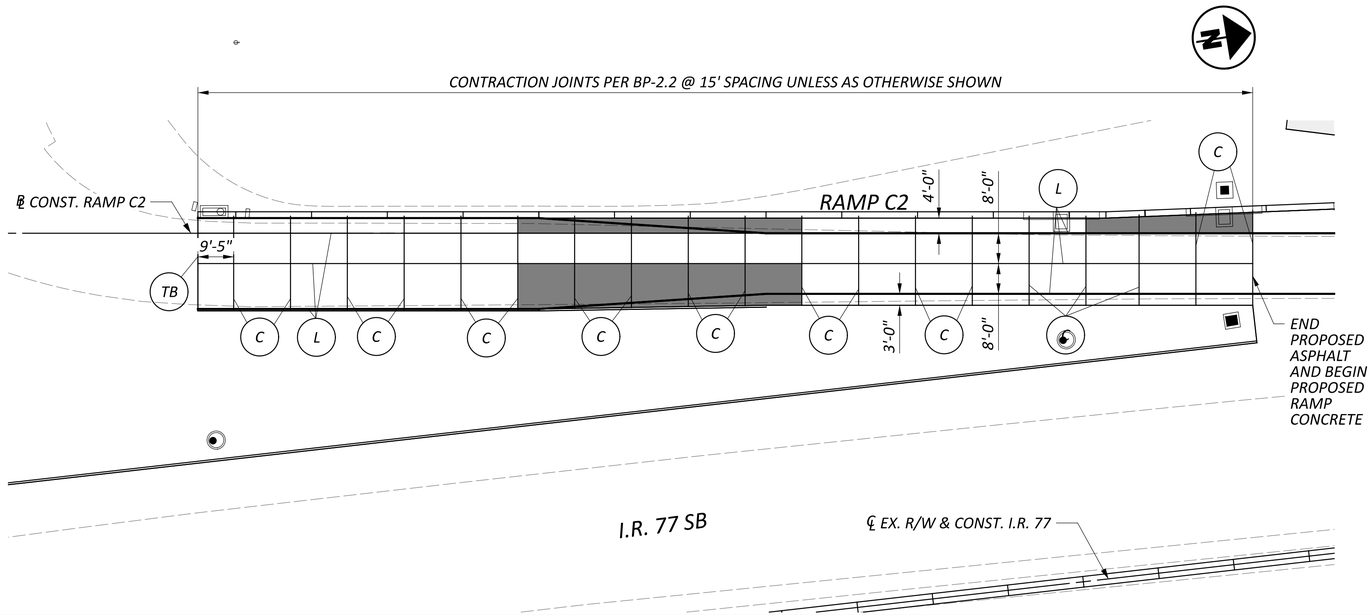
PAVEMENT DETAIL LEGEND

L	STANDARD LONGITUDINAL JOINT, AS PER BP-2.1	E	EXPANSION JOINT, AS PER BP-2.2
C	CONTRACTION JOINT, AS PER BP-2.2	TB	THICKENED EDGE EXPANSION JOINT
S	STANDARD LONGITUDINAL JOINT AS PER BP-2.1 WITHOUT TIE BARS		CONSTRUCTED BY ALTERNATIVE PAVING METHODS

HORIZONTAL SCALE IN FEET
0 10 20 40







PAVEMENT JOINT DETAILS
RAMPS C1 & C2

DESIGN AGENCY
HNTB

DESIGNER	SJT
REVIEWER	KKP 07/23/24
PROJECT ID	105743
SHEET	P.682
TOTAL	P.1269

CUY-77-11.41 - PART 1

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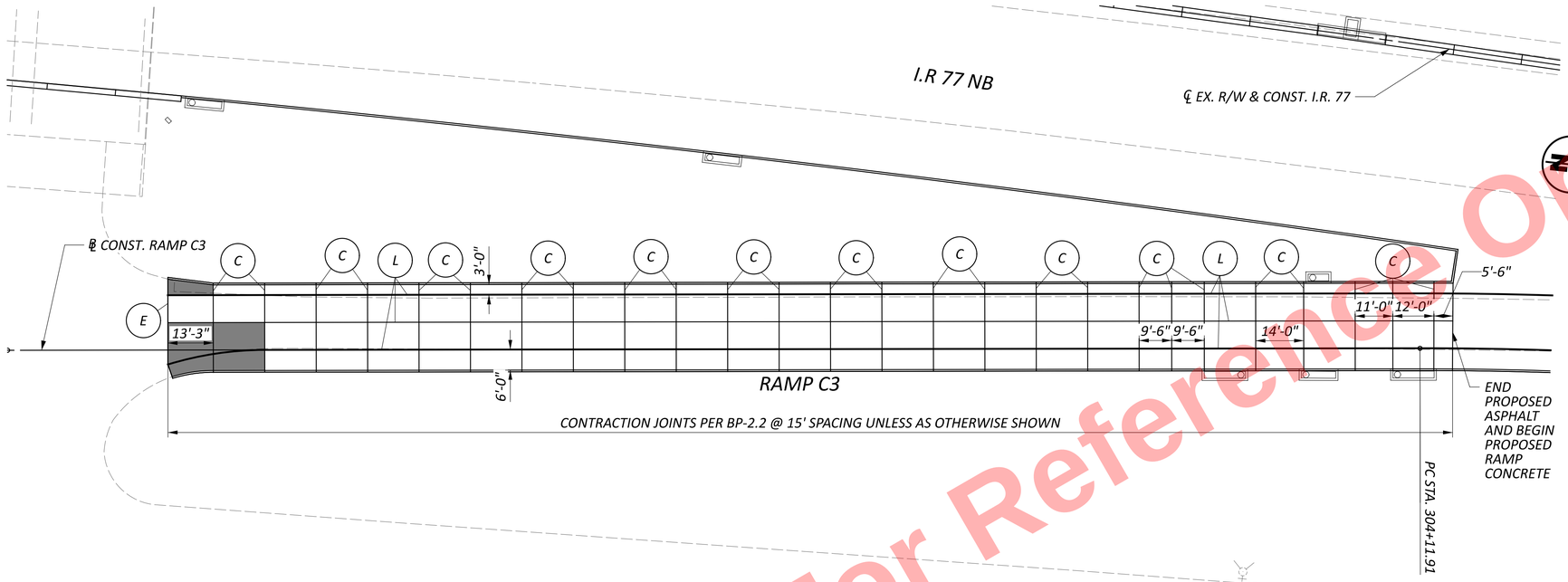
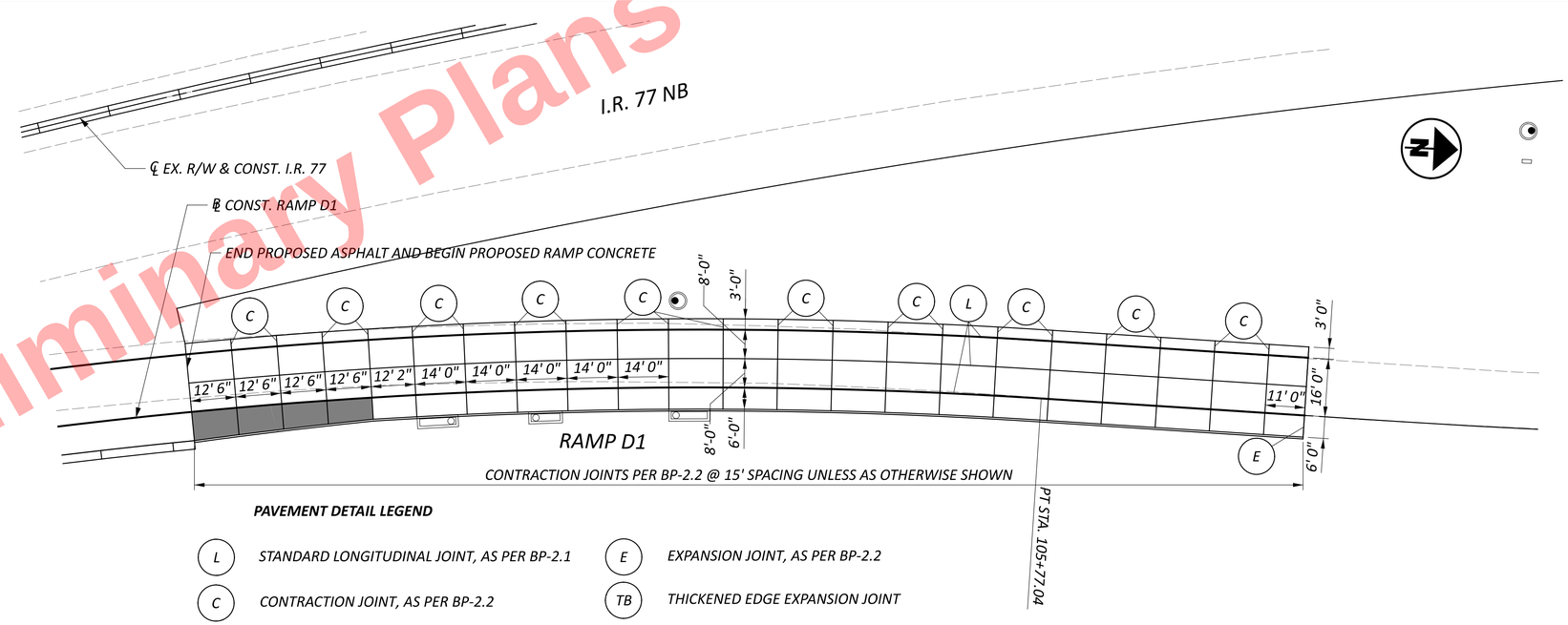
Preliminary Plans - For Reference Only





PAVEMENT DETAIL LEGEND

L	STANDARD LONGITUDINAL JOINT, AS PER BP-2.1	E	EXPANSION JOINT, AS PER BP-2.2
C	CONTRACTION JOINT, AS PER BP-2.2	TB	THICKENED EDGE EXPANSION JOINT
▬	CONSTRUCTED BY ALTERNATIVE PAVING METHODS	S	STANDARD LONGITUDINAL JOINT AS PER BP-2.1 WITHOUT TIE BARS

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PAVEMENT JOINT DETAILS RAMPS C3 & D1

CUY-77-11.41 - PART 1

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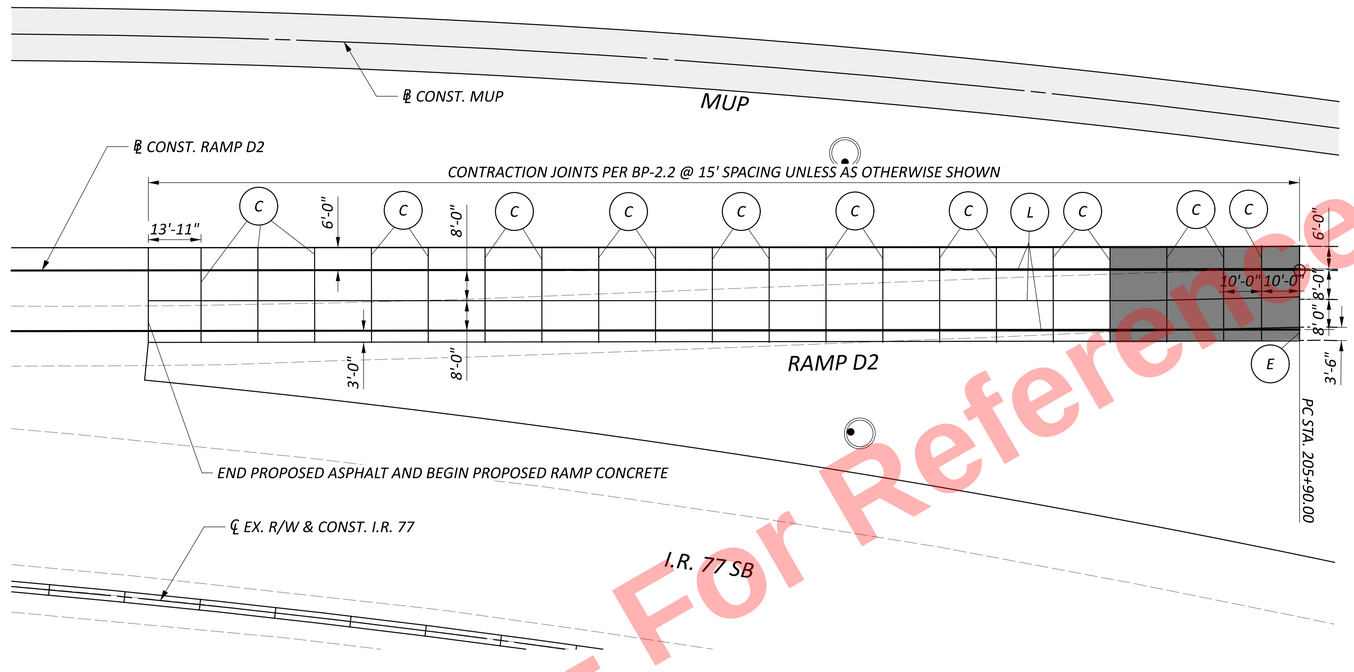
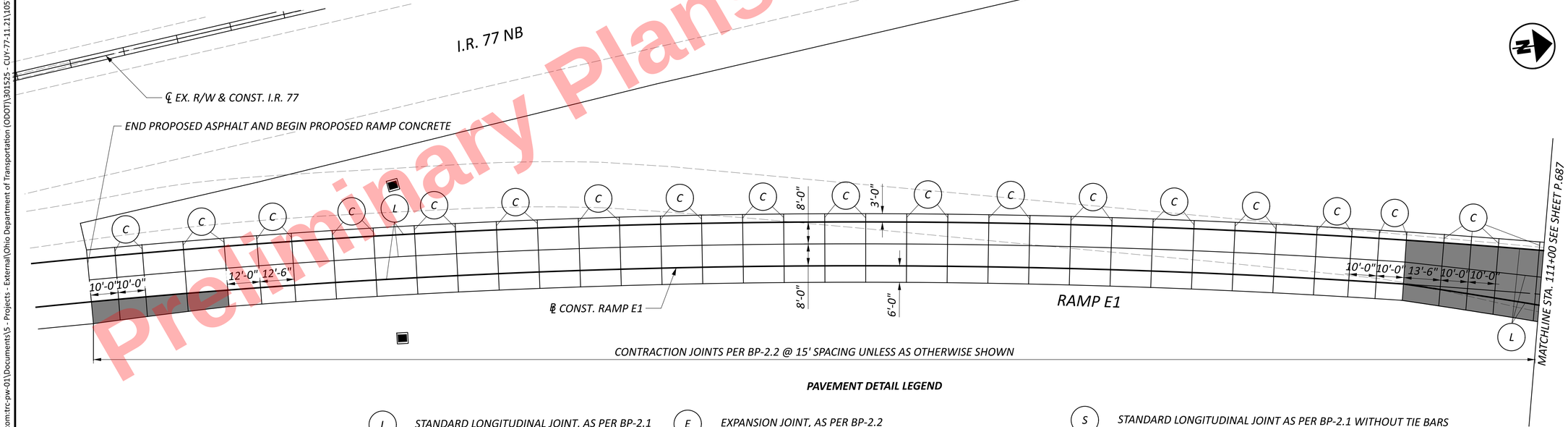
DESIGN AGENCY
HNTB

DESIGNER	SJT
REVIEWER	KKP 07/23/24
PROJECT ID	105743
SHEET	P.683
TOTAL	P.1269





PAVEMENT DETAIL LEGEND

- (L) STANDARD LONGITUDINAL JOINT, AS PER BP-2.1
- (C) CONTRACTION JOINT, AS PER BP-2.2
- (E) EXPANSION JOINT, AS PER BP-2.2
- (TB) THICKENED EDGE EXPANSION JOINT
- (S) STANDARD LONGITUDINAL JOINT AS PER BP-2.1 WITHOUT TIE BARS
- CONSTRUCTED BY ALTERNATIVE PAVING METHODS

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

PAVEMENT JOINT DETAILS RAMPS D2 & E1

DESIGN AGENCY
HNTB

DESIGNER	SJT
REVIEWER	KKP 07/23/24
PROJECT ID	105743
SHEET	P.684
TOTAL	P.1269

CUY-77-11.41 - PART 1

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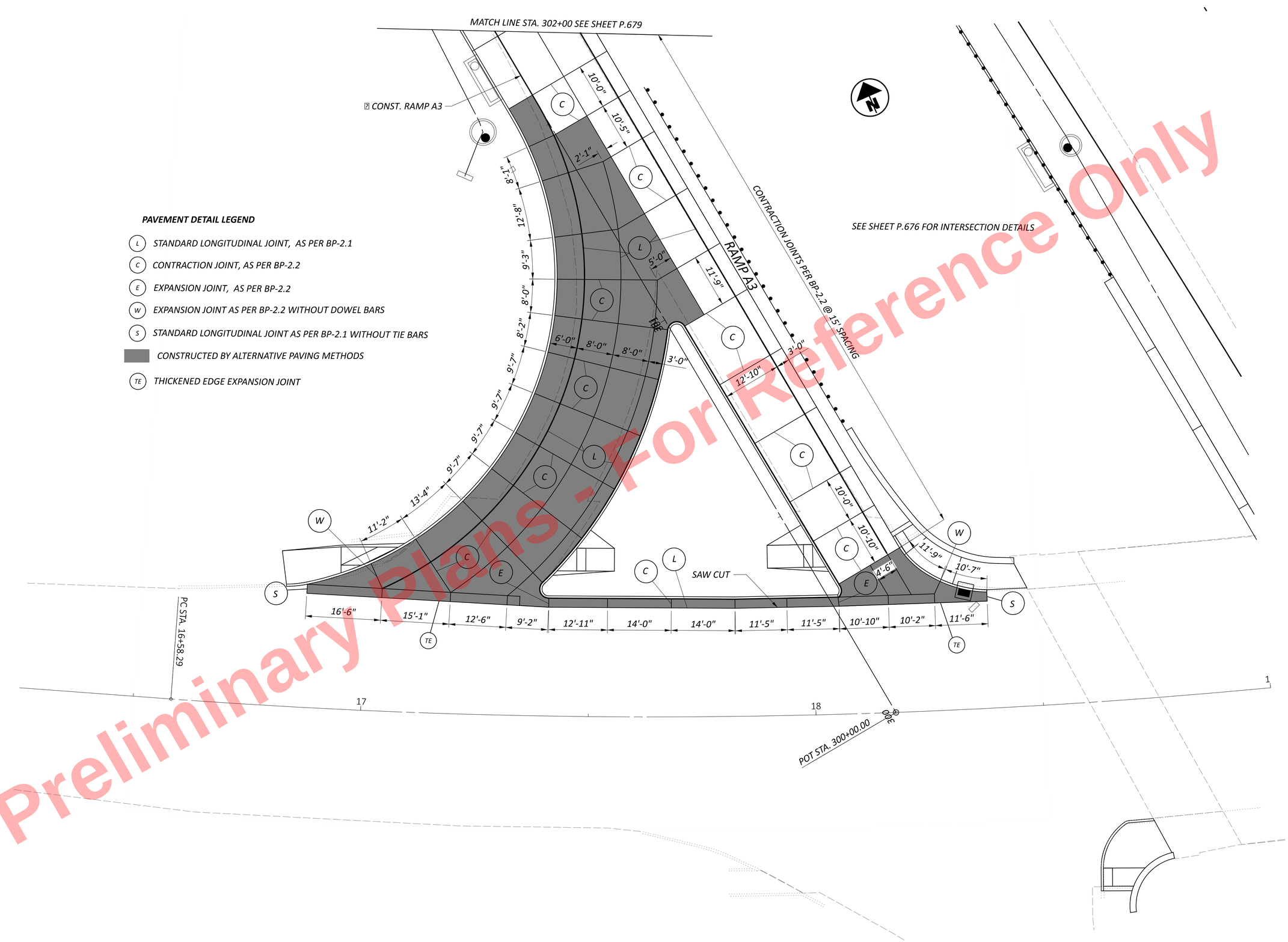

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 2.5 5 10

PAVEMENT JOINT DETAILS RAMP A3

DESIGN AGENCY
HNTB

DESIGNER	SJT
REVIEWER	KKP 07/23/24
PROJECT ID	105743
SHEET	P.685
TOTAL	P.1269

CUY-77-11.41 - PART 1

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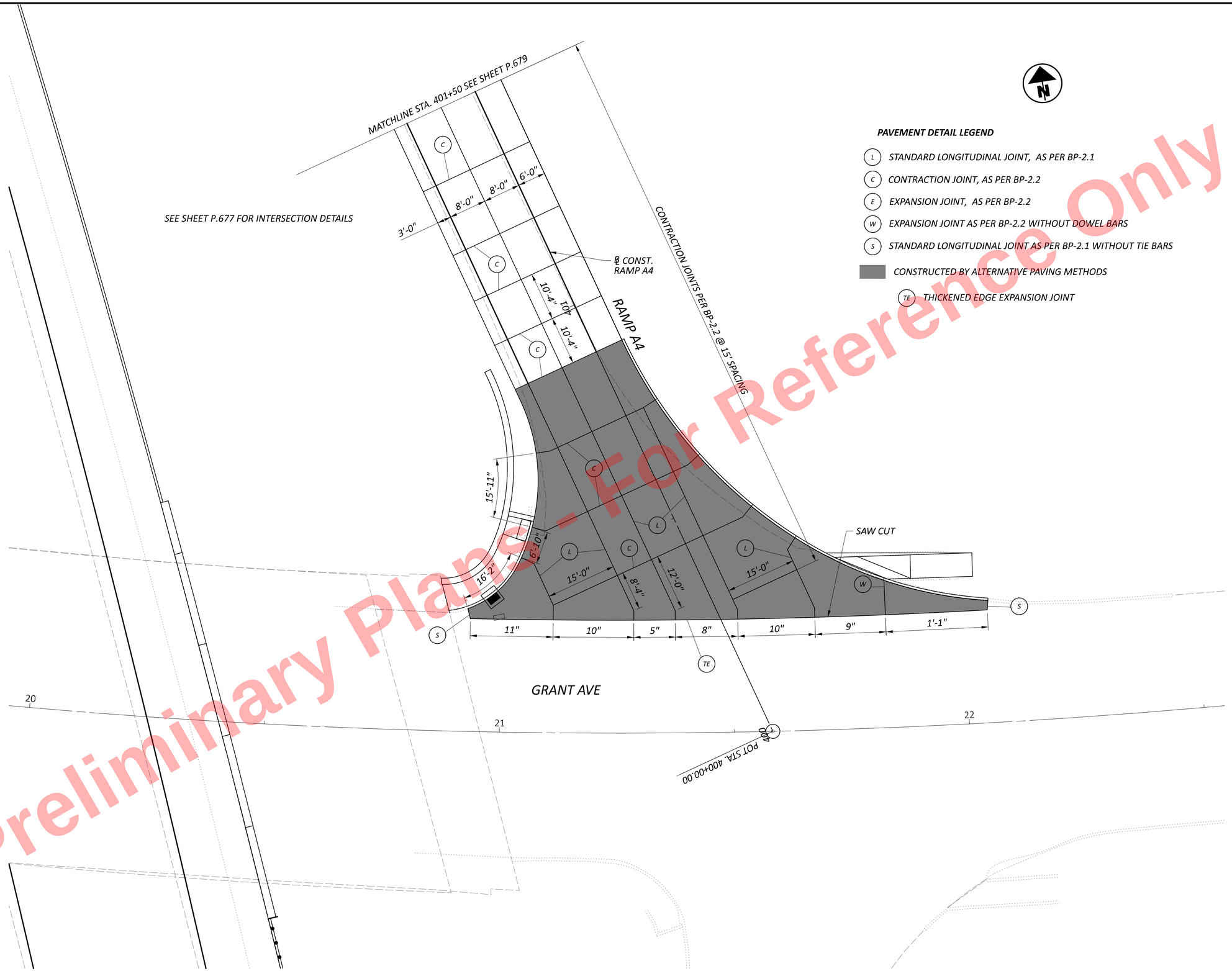

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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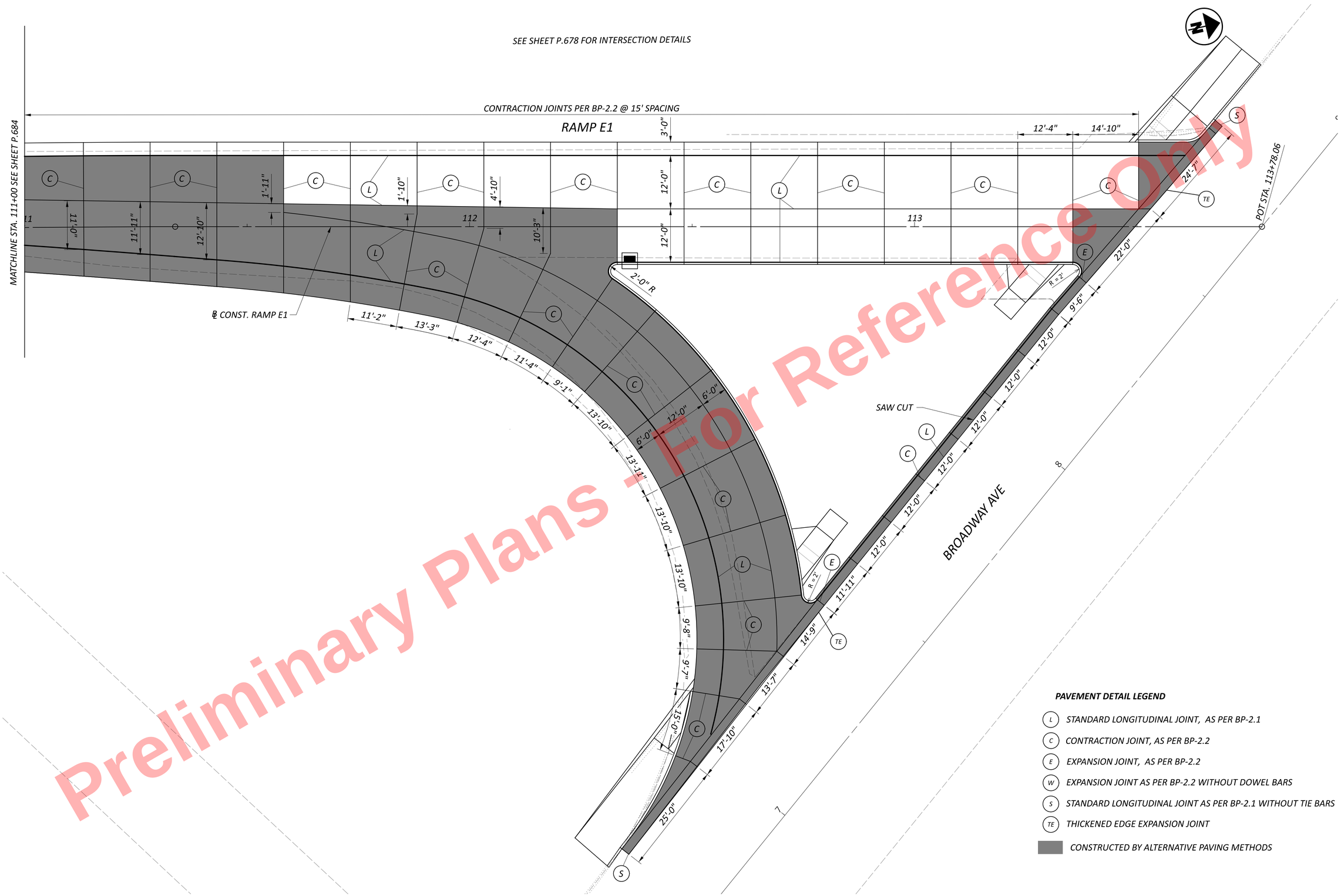
PAVEMENT JOINT DETAILS RAMP A4

DESIGN AGENCY
HNTB

DESIGNER	SJT
REVIEWER	KKP 07/23/24
PROJECT ID	105743
SHEET	P.686
TOTAL	P.1269

Preliminary Plans - For Reference Only



HORIZONTAL SCALE IN FEET
0 5 10
2.5

PAVEMENT DETAIL LEGEND

- (L) *STANDARD LONGITUDINAL JOINT, AS PER BP-2.1*
- (C) *CONTRACTION JOINT, AS PER BP-2.2*
- (E) *EXPANSION JOINT, AS PER BP-2.2*
- (W) *EXPANSION JOINT AS PER BP-2.2 WITHOUT DOWEL BARS*
- (S) *STANDARD LONGITUDINAL JOINT AS PER BP-2.1 WITHOUT TIE BARS*
- (TE) *THICKENED EDGE EXPANSION JOINT*
- *CONSTRUCTED BY ALTERNATIVE PAVING METHODS*

PAVEMENT JOINT DETAILS RAMP E1

DESIGN AGENCY
HNTB

DESIGNER	SJT
REVIEWER	KKP 07/23/24
PROJECT ID	105743
SHEET	P.687
TOTAL	P.1269

CUY-77-11.41 - PART 1

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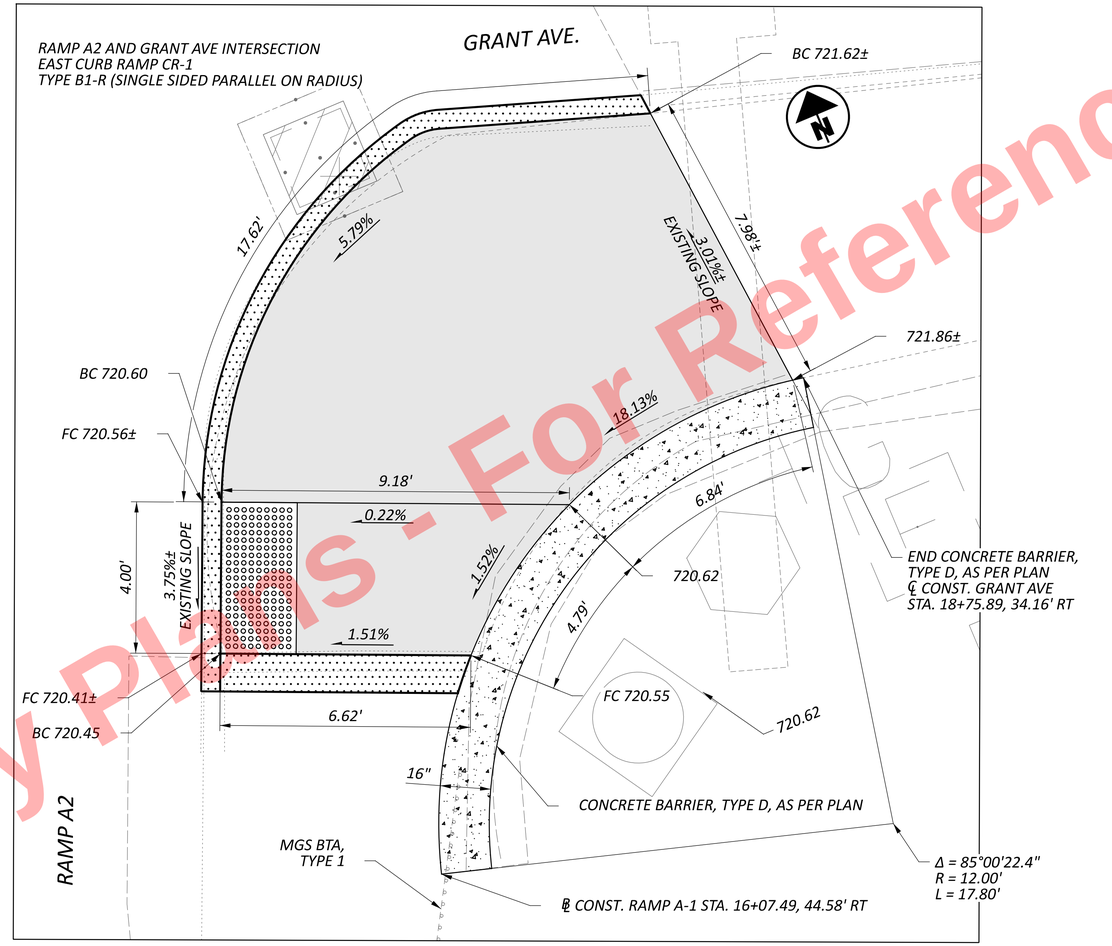
Preliminary Plans - For Reference Only



LEGEND

FC - FRONT OF CURB

BC - BACK OF CURB

CONCRETE BARRIER

CONCRETE CURB

HORIZONTAL SCALE IN FEET
0 1 2 4

CURB RAMP DETAILS
GRANT AVENUE

DESIGN AGENCY
HNTB

DESIGNER	EIO
REVIEWER	KKP 07/24/24
PROJECT ID	105743
SHEET	P.688
TOTAL	P.1269

CUY-77-11.41 - PART 1

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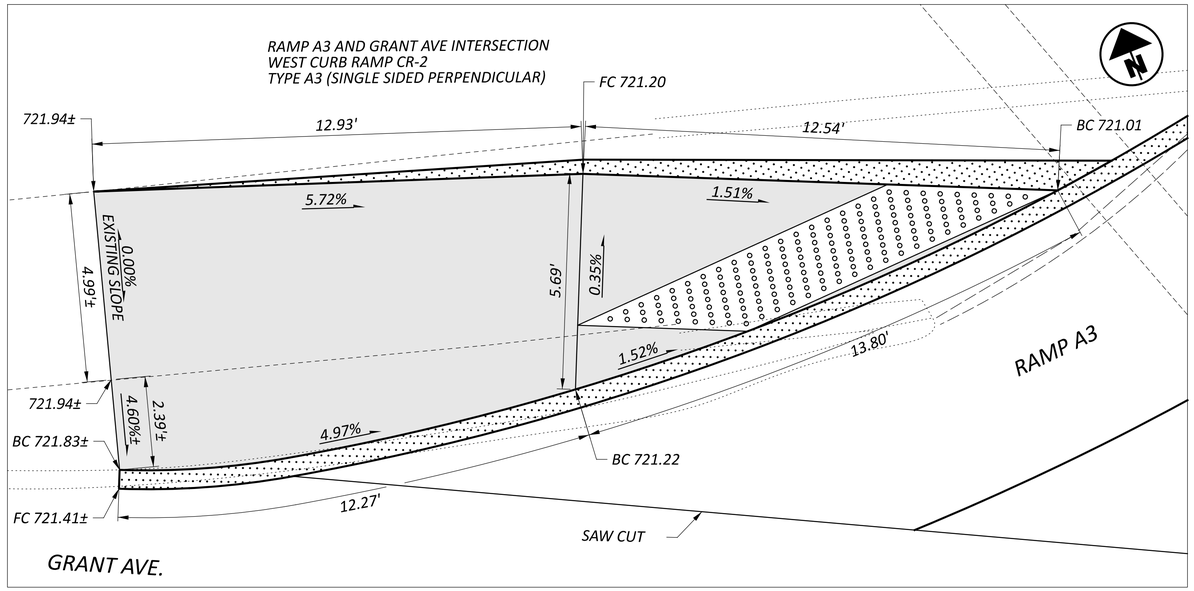
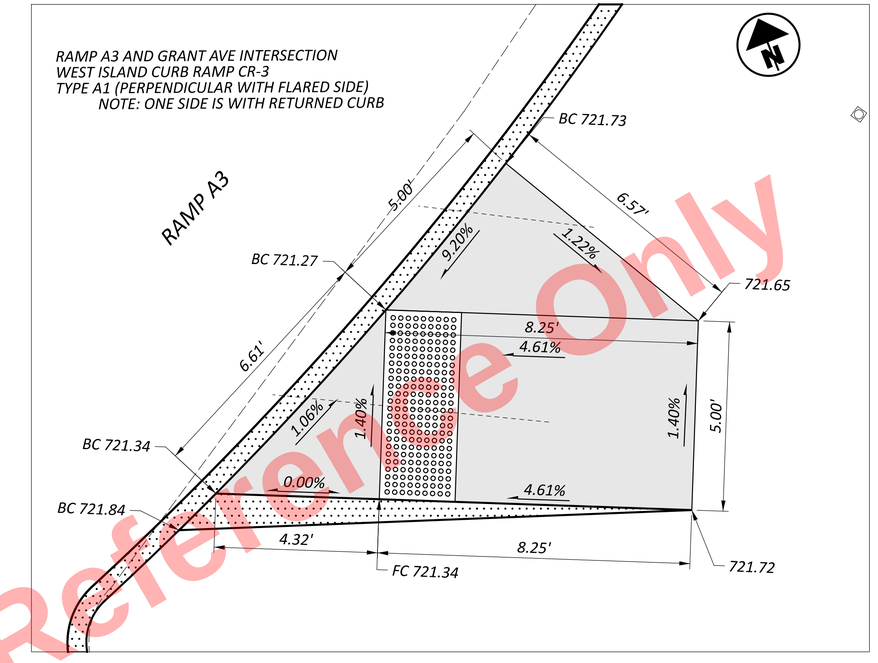
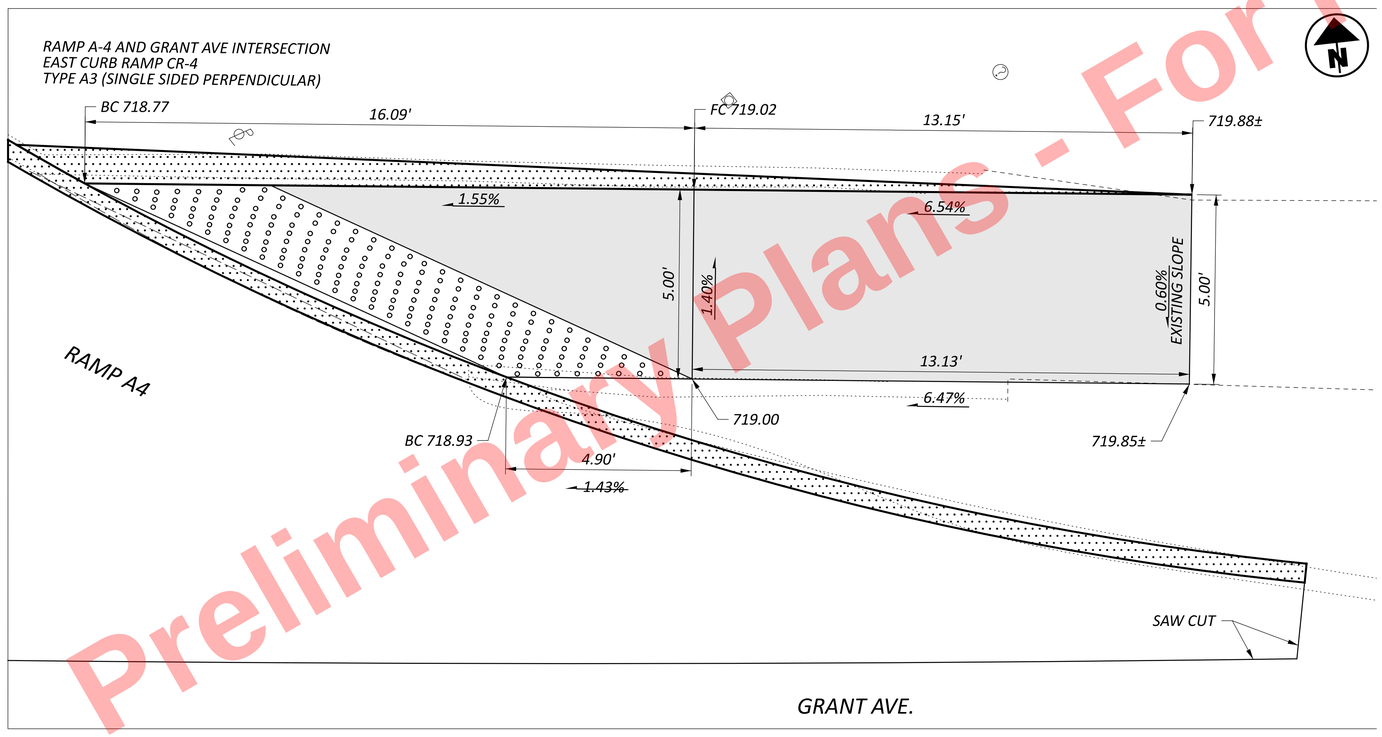
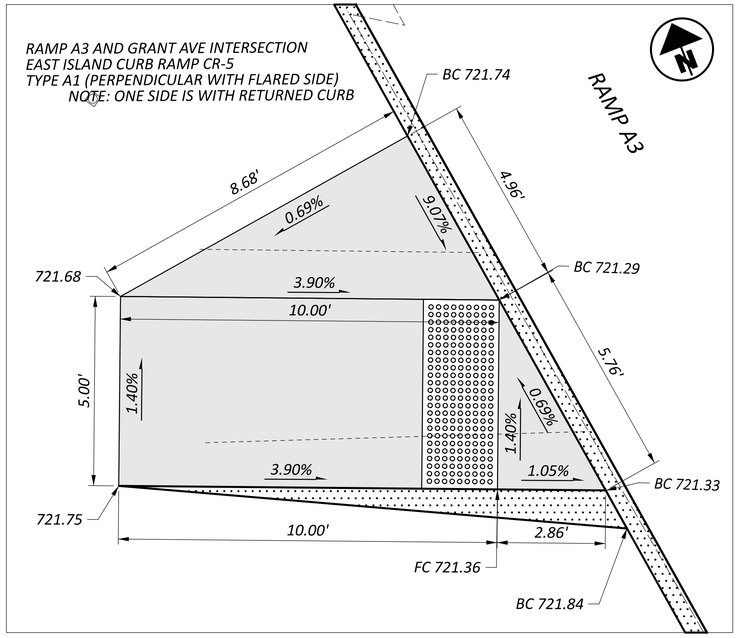
Preliminary Plans - For Reference Only









LEGEND

FC - FRONT OF CURB

BC - BACK OF CURB

CONCRETE BARRIER

CONCRETE CURB

HORIZONTAL SCALE IN FEET
0 1 2 4

CURB RAMP DETAILS GRANT AVENUE

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 07/14/25
PROJECT ID 105743
SHEET P.689 TOTAL P.1269

CUY-77-11.41 - PART 1

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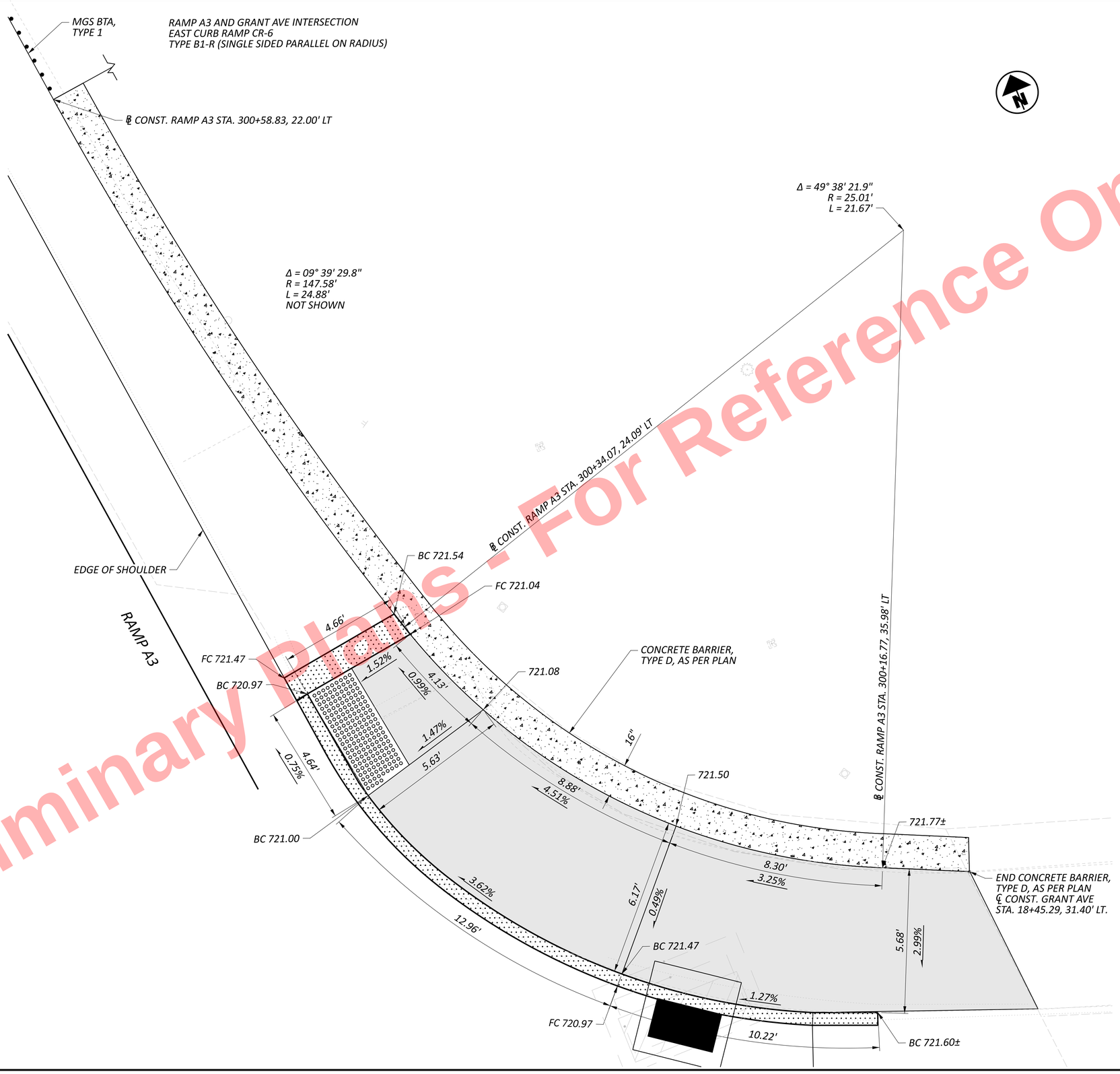

LEGEND

FC - FRONT OF CURB

BC - BACK OF CURB

CONCRETE BARRIER

CONCRETE CURB

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 1 2 4

CURB RAMP DETAILS GRANT AVENUE

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 07/18/24
PROJECT ID 105743
SHEET P.690 TOTAL P.1269

CUY-77-11.41 - PART 1

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Preliminary Plans - For Reference Only

END CONCRETE BARRIER, TYPE D, AS PER PLAN
℄ CONST. GRANT AVE
STA. 20+86.82, 31.13' LT

RAMP A-4 AND GRANT AVE INTERSECTION
EAST CURB RAMP CR-7
TYPE B1-R (SINGLE SIDED PARALLEL ON RADIUS)

Δ = 66° 56' 33.9"
R = 10.81'
L = 12.64'

Δ = 15° 40' 46.6"
R = 33.17'
L = 9.08'
NOT SHOWN

Δ = 39° 29' 43.2"
R = 45.19'
L = 31.15'
NOT SHOWN

BC 721.63 ±
5.80'±
BC 721.60±
FC 721.10±
0.54%±
EXISTING SLOPE
℄ CONST. RAMP A4 STA. 400+58.08, 50.76' LT
℄ CONST. RAMP A4 STA. 400+59.31, 37.55' LT
℄ CONST. RAMP A4 STA. 400+66.90, 32.13' LT
℄ CONST. RAMP A4 STA. 400+95.09, 22.00' LT
GRANT AVE.
18.41'
7.55%
720.24
FC 720.18
CONCRETE BARRIER, TYPE D, AS PER PLAN
BC 720.68
6.12%
23.12'
SAWCUT
4.01'
1.50%
5.00'
1.40%
1.40%
16"
EDGE OF SHOULDER
5.00'
4.60'
1.30%
BC 720.17
BC 720.61
BC 720.11
RAMP A4

LEGEND

FC - FRONT OF CURB

BC - BACK OF CURB

CONCRETE BARRIER

CONCRETE CURB

HORIZONTAL SCALE IN FEET
0 1 2 4

CURB RAMP DETAILS GRANT AVENUE

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 07/18/24
PROJECT ID 105743
SHEET P.691 TOTAL P.1269

CUY-77-11.41 - PART 1

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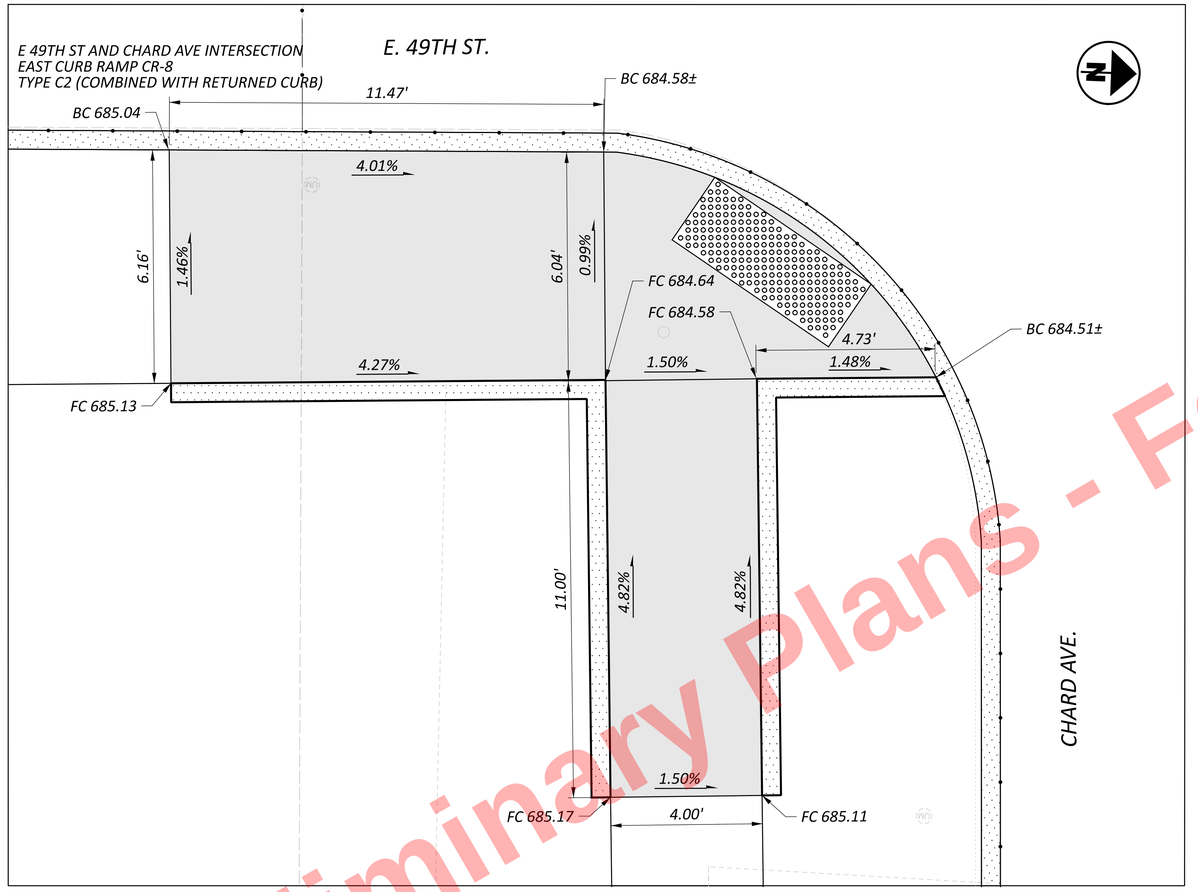
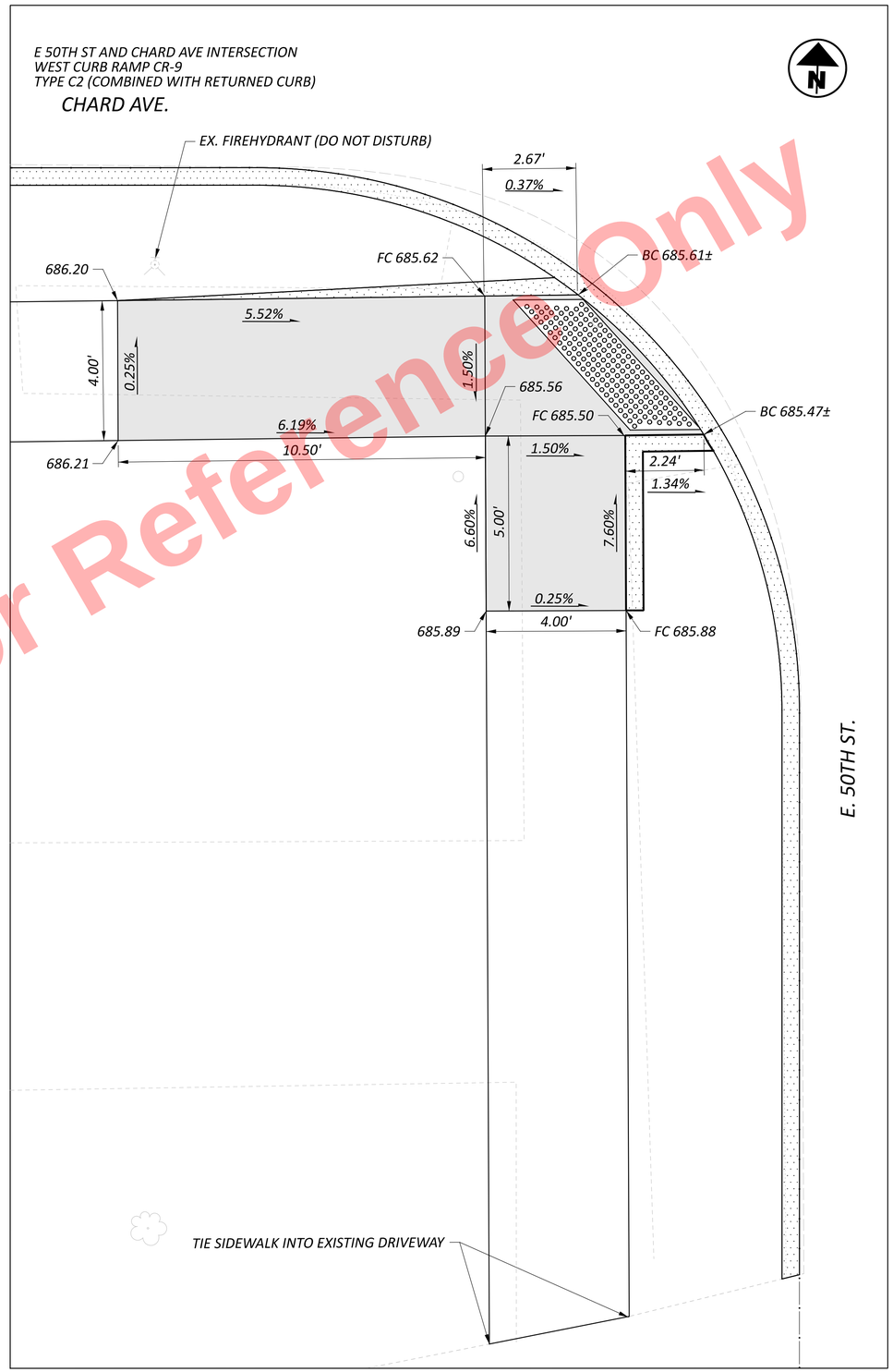
Preliminary Plans - For Reference Only

E 49TH ST AND CHARD AVE INTERSECTION
EAST CURB RAMP CR-8
TYPE C2 (COMBINED WITH RETURNED CURB)



E 50TH ST AND CHARD AVE INTERSECTION
WEST CURB RAMP CR-9
TYPE C2 (COMBINED WITH RETURNED CURB)



LEGEND

FC - FRONT OF CURB

BC - BACK OF CURB

CONCRETE BARRIER

CONCRETE CURB

HORIZONTAL SCALE IN FEET
0 1 2 4

CURB RAMP DETAILS CHARD AVENUE

CUY-77-11.41 - PART 1

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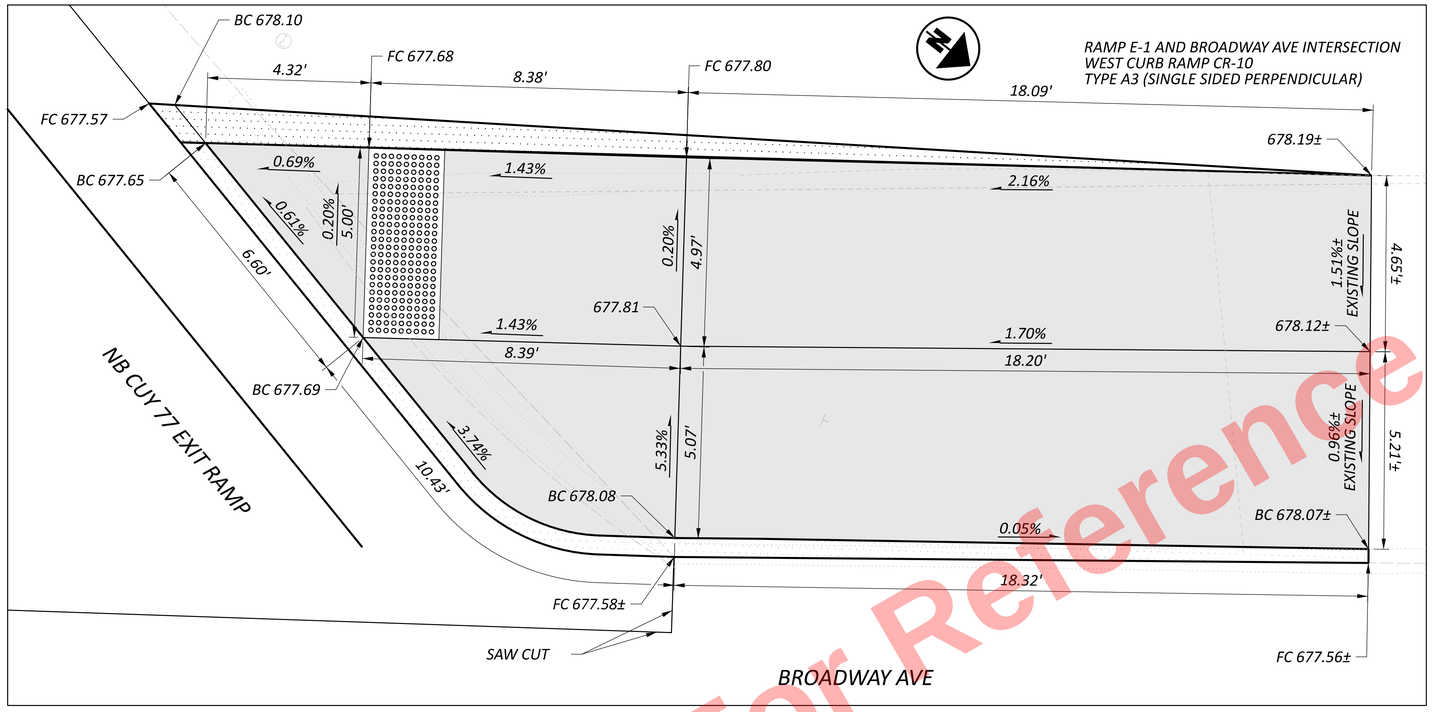
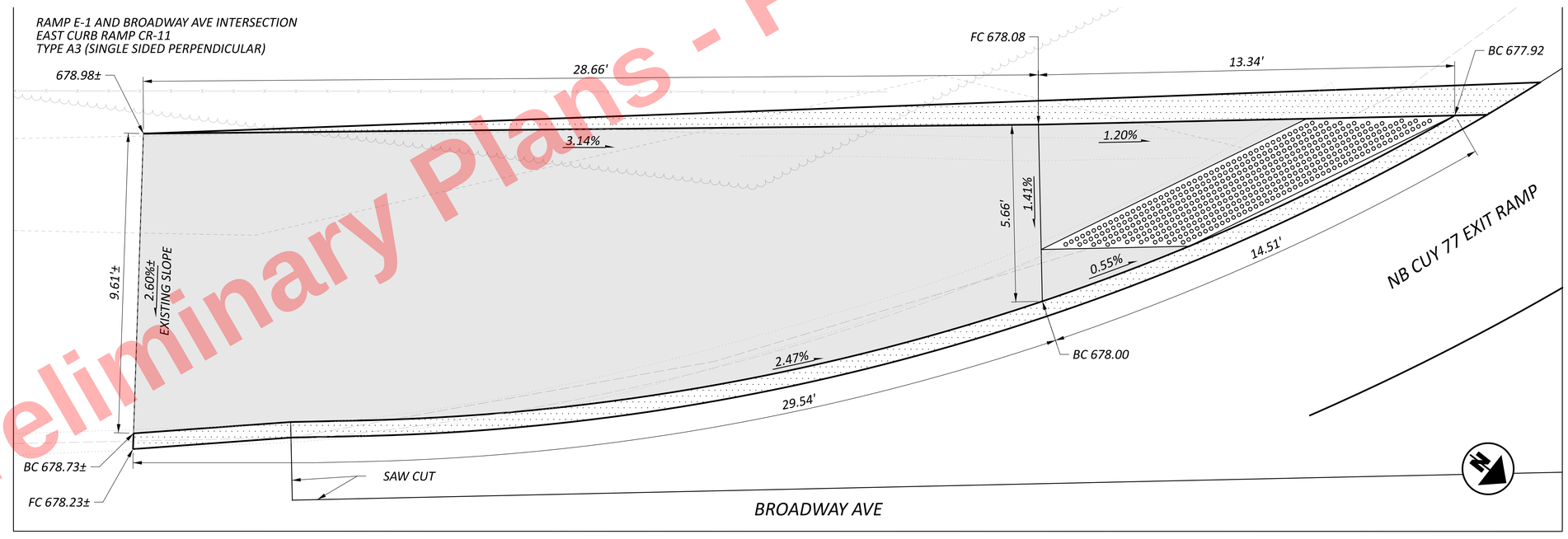
DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 07/18/24
PROJECT ID 105743
SHEET P.692 TOTAL P.1269





LEGEND

FC - FRONT OF CURB

BC - BACK OF CURB

CONCRETE BARRIER

CONCRETE CURB

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 1 2 4

CURB RAMP DETAILS BROADWAY AVENUE

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 07/18/24
PROJECT ID 105743
SHEET P.693 TOTAL P.1269

CUY-77-11.41 - PART 1

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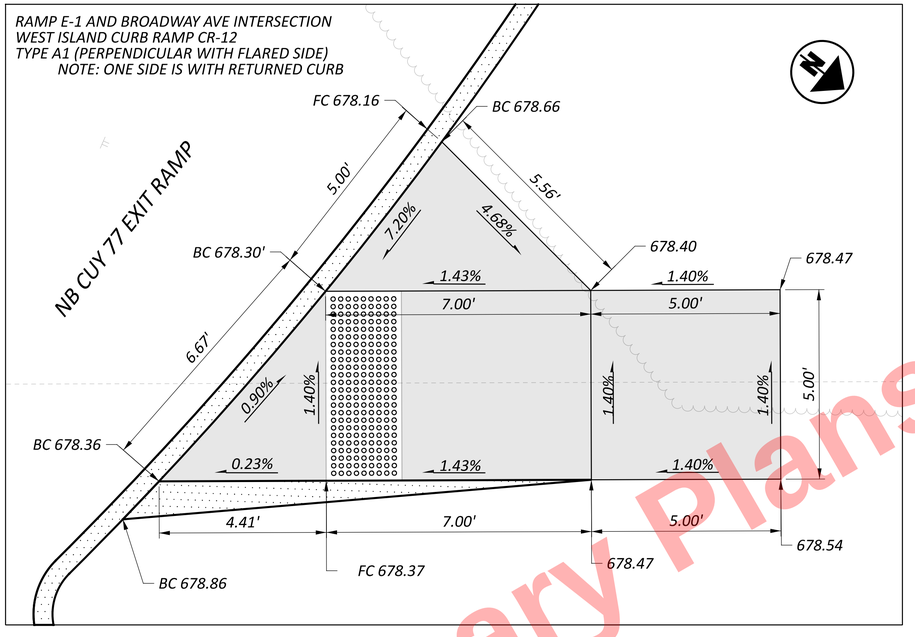
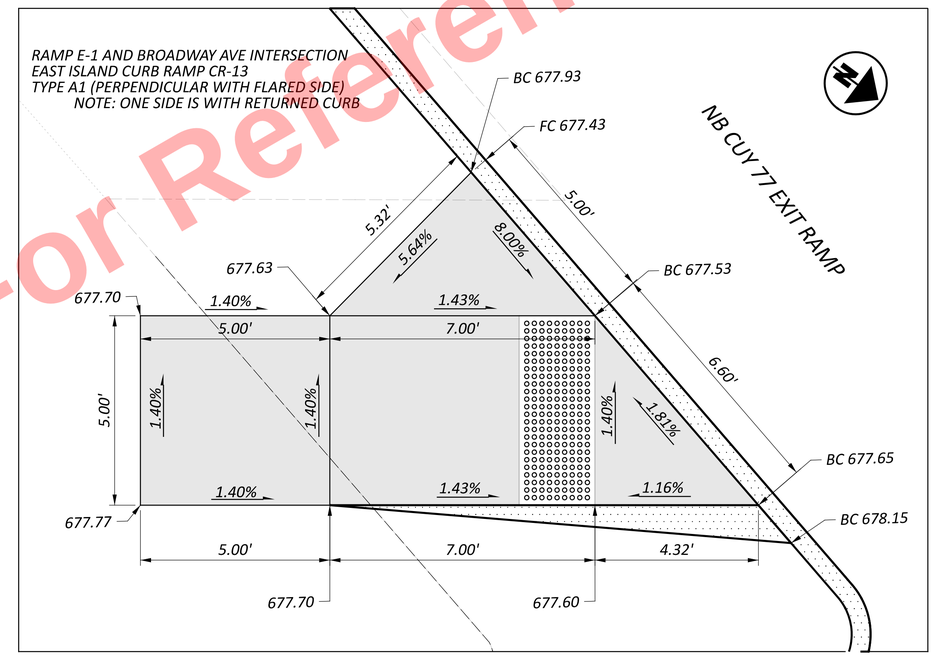
Preliminary Plans - For Reference Only

RAMP E-1 AND BROADWAY AVE INTERSECTION
WEST ISLAND CURB RAMP CR-12
TYPE A1 (PERPENDICULAR WITH FLARED SIDE)
NOTE: ONE SIDE IS WITH RETURNED CURB



RAMP E-1 AND BROADWAY AVE INTERSECTION
EAST ISLAND CURB RAMP CR-13
TYPE A1 (PERPENDICULAR WITH FLARED SIDE)
NOTE: ONE SIDE IS WITH RETURNED CURB



LEGEND

FR - FRONT OF CURB

BC - BACK OF CURB

CONCRETE BARRIER

CONCRETE CURB

HORIZONTAL SCALE IN FEET
0 1 2 4

CURB RAMP DETAILS BROADWAY AVENUE

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 07/18/24
PROJECT ID 105743
SHEET P.694 TOTAL P.1269

CUY-77-11.41 - PART 1

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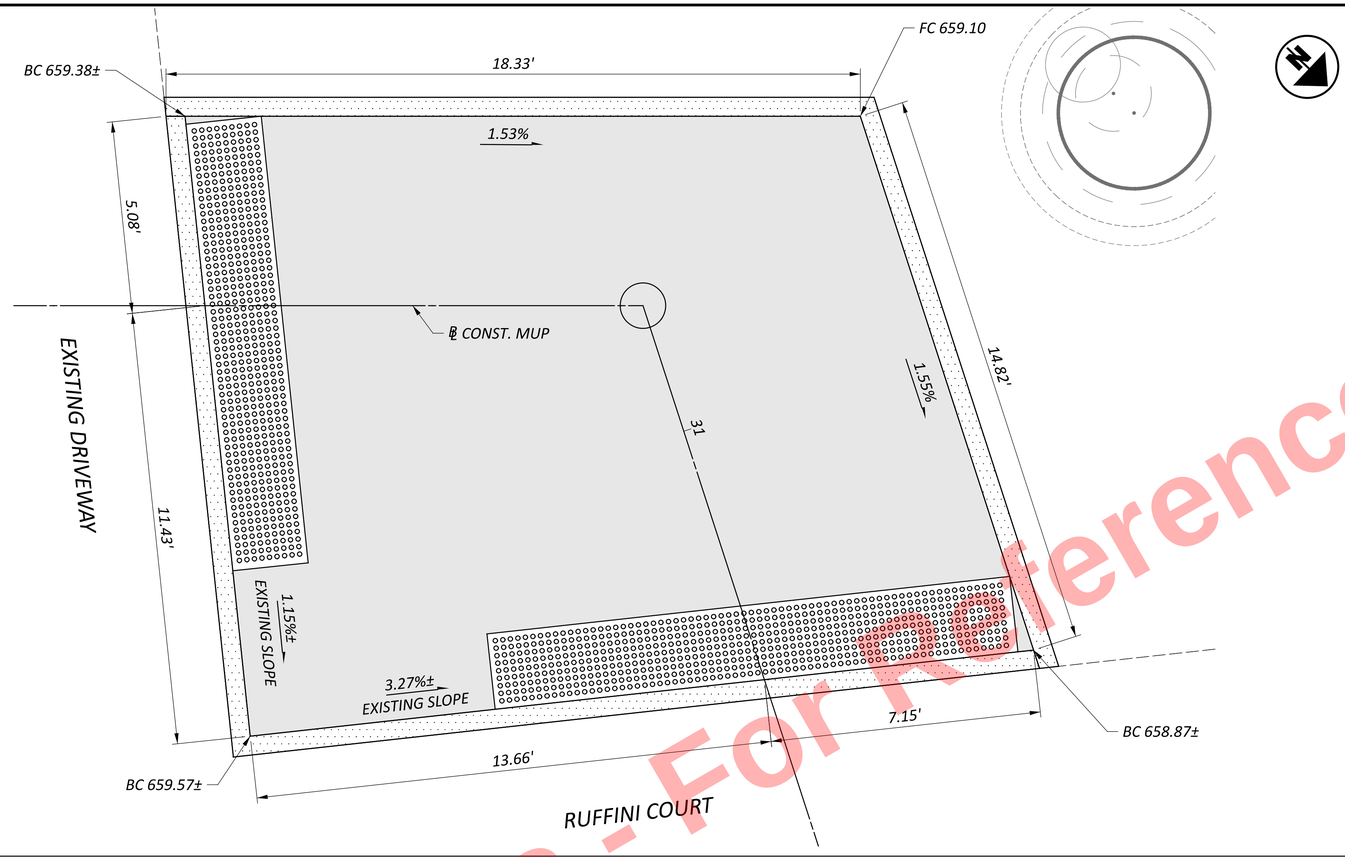

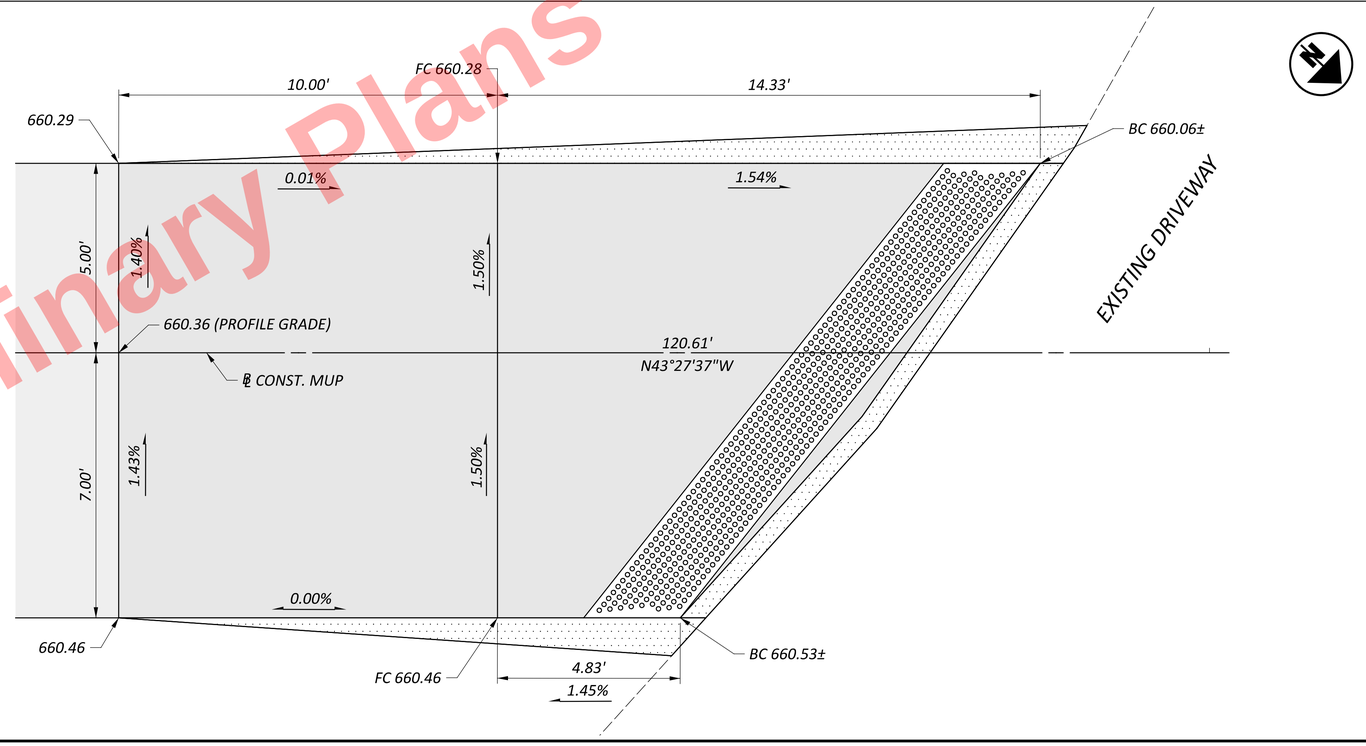

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 1 2 4

MUP CURB RAMPS
SOUTH SIDE OF RUFFINI CT

DESIGN AGENCY
HNTB

DESIGNER
SJT

REVIEWER
KKP 07/23/24

PROJECT ID
105743

SHEET P.695 TOTAL P.1269

CUY-77-11.41 - PART 1

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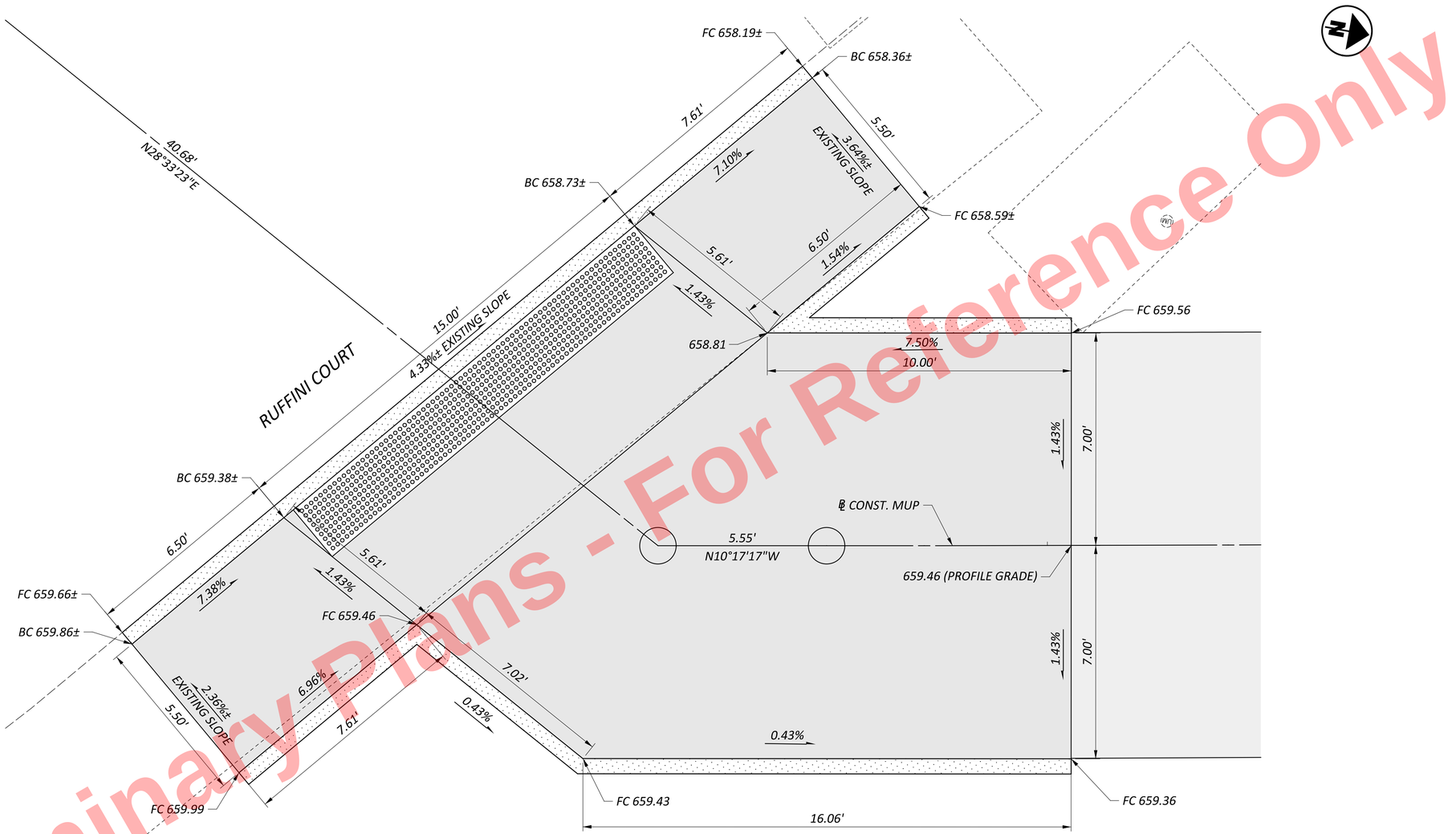

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 1 2 4

MUP CURB RAMPS NORTH SIDE OF RUFFINI CT

CUY-77-11.41 - PART 1

MODEL: Unnamed Plan - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 2:02:02 AM USER: kperkins
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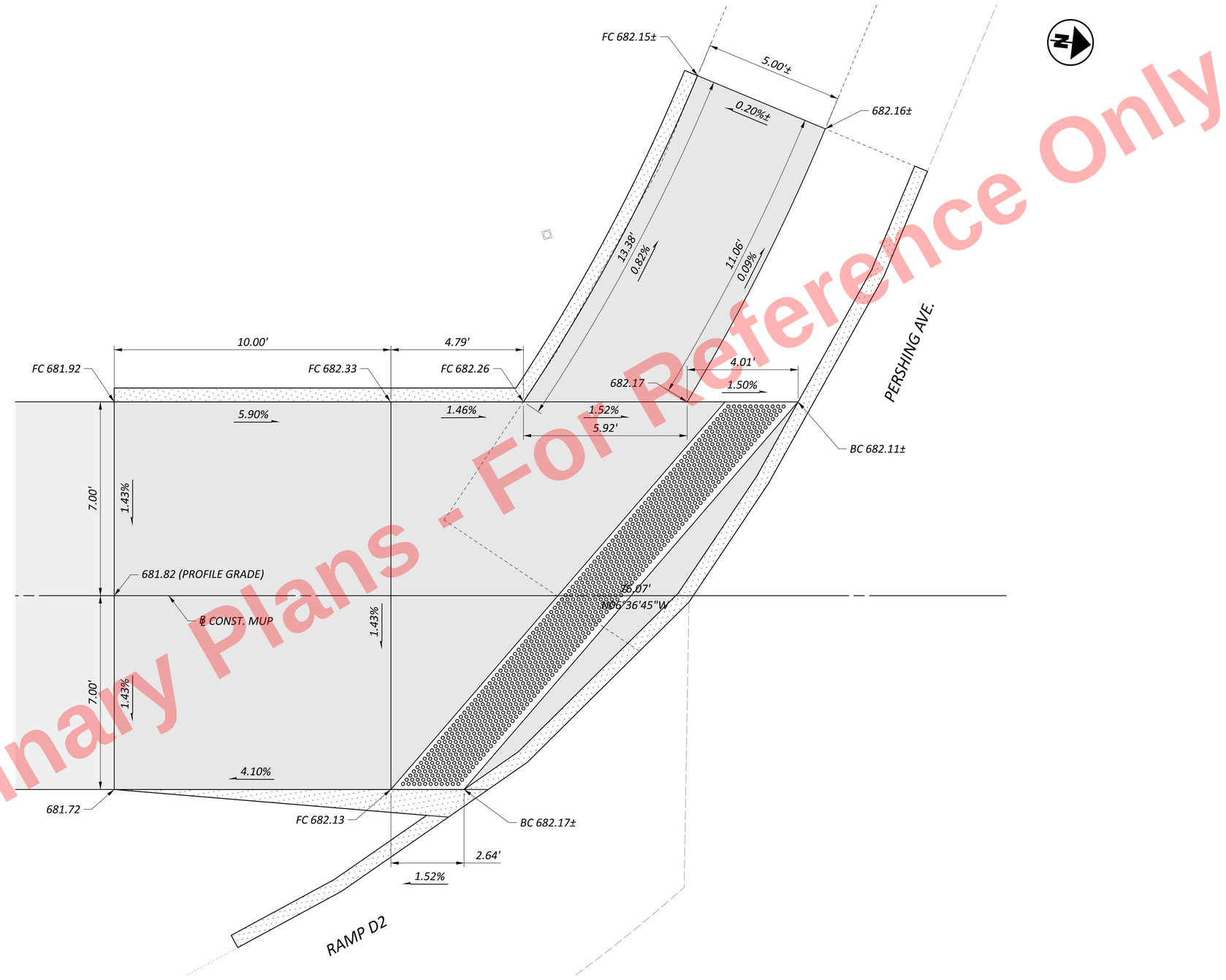
DESIGN AGENCY
HNTB

DESIGNER	SJT
REVIEWER	KKP 07/23/24
PROJECT ID	105743
SHEET	P.696
TOTAL	P.1269



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 1 2 4

MUP CURB RAMPS
SOUTH SIDE OF PERSHING AVE

DESIGN AGENCY
HNTB

DESIGNER
SJT

REVIEWER
KKP 07/23/24

PROJECT ID
105743

SHEET P.697 TOTAL P.1269

CUY-77-11.41 - PART 1

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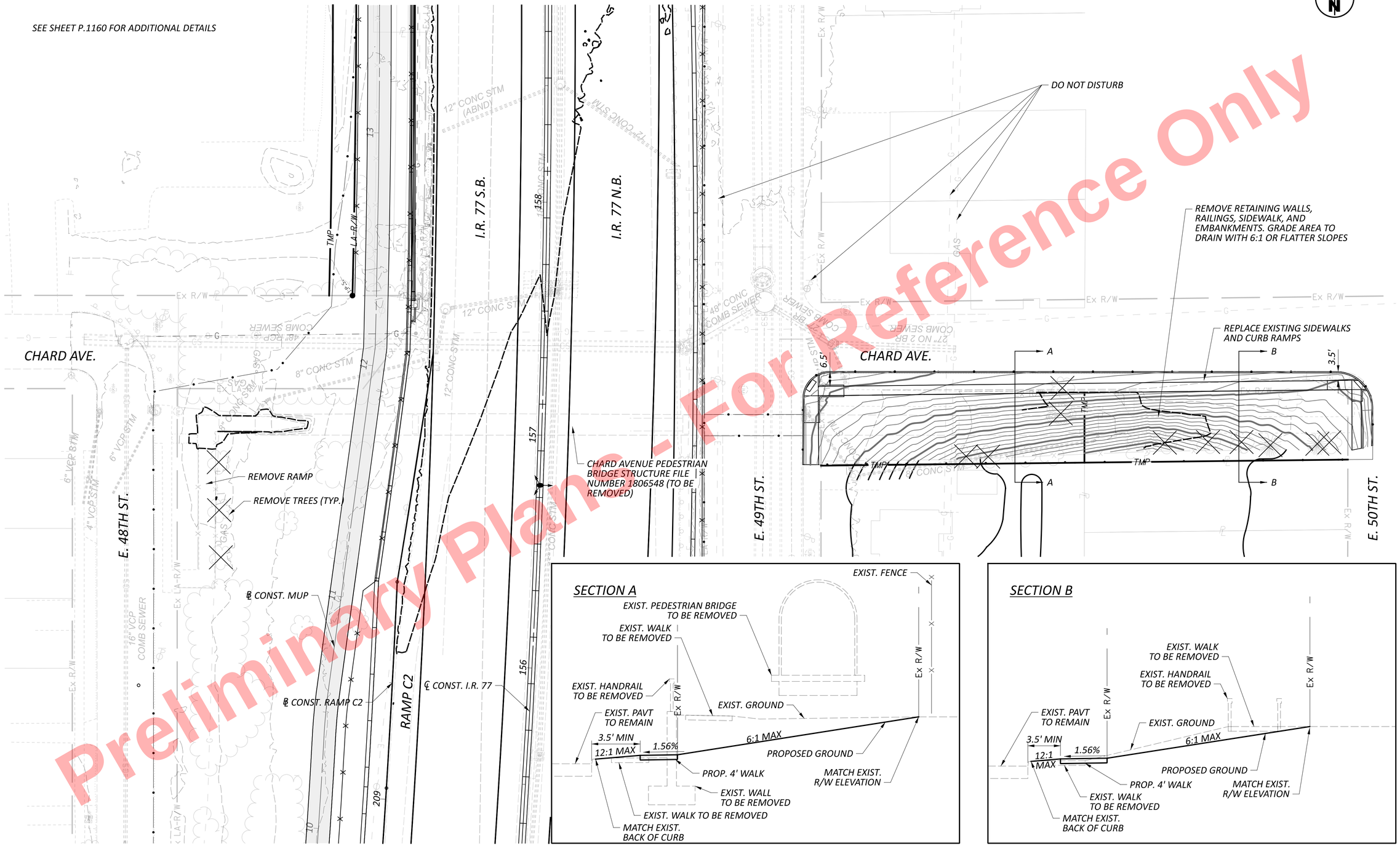
Preliminary Plans - For Reference Only

SEE SHEET P.1160 FOR ADDITIONAL DETAILS



SEE SHEETS P.293-P.309 FOR PLAN AND PROFILE SHEETS.

HORIZONTAL SCALE IN FEET
0 5 10 20

REMOVAL DETAILS
CHARD AVENUE PEDESTRIAN BRIDGE

CUY-77-11.41 - PART 1

MODEL: Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 2:02:24 AM USER: kperkins
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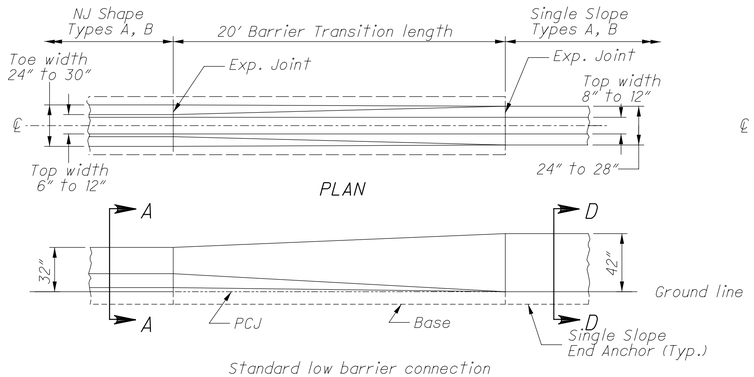
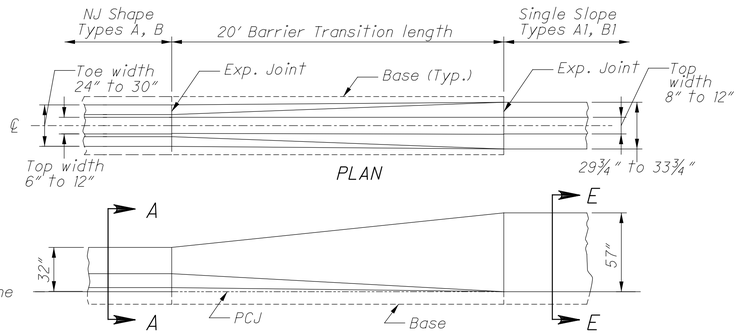
DESIGN AGENCY
HNTB

DESIGNER JSB
REVIEWER KKP 05/02/22
PROJECT ID 105743
SHEET P.698 TOTAL P.1269



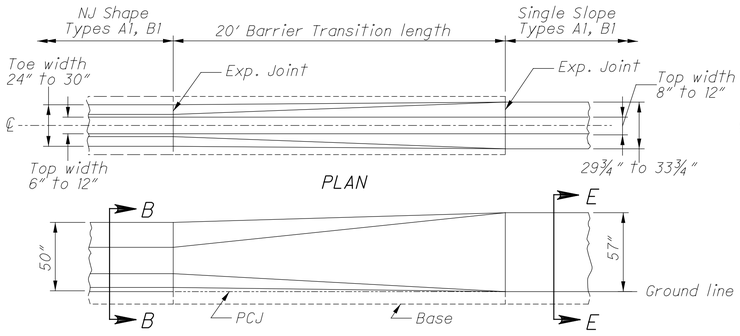
Standard low barrier connection

ELEVATION



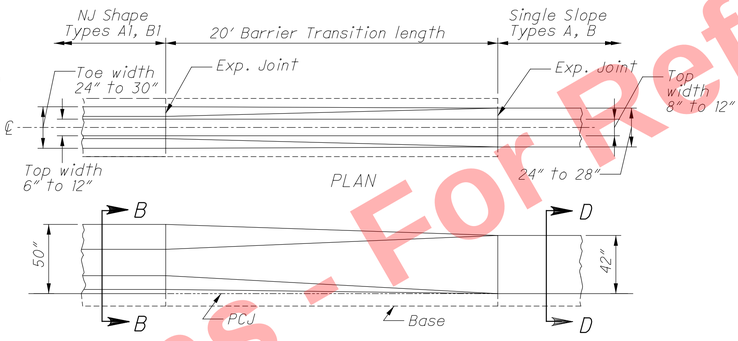
Atypical use

ELEVATION



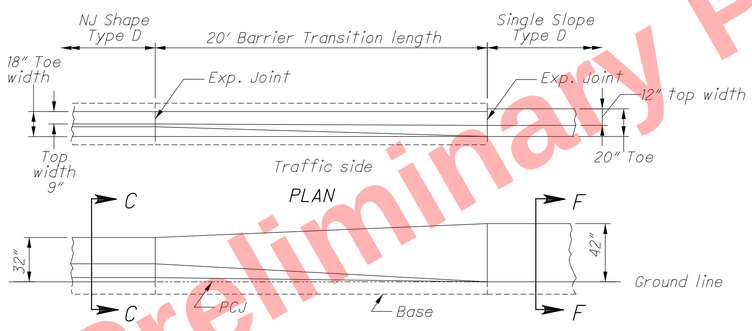
Standard tall barrier connection

ELEVATION



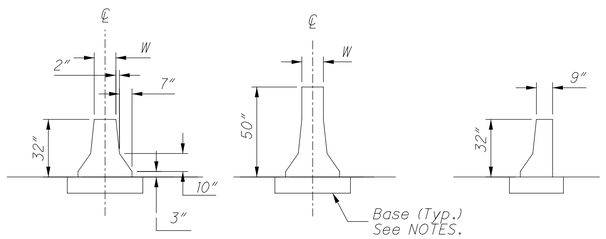
Atypical use

ELEVATION



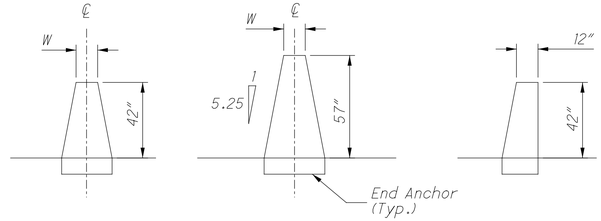
Standard Roadside barrier connection

ELEVATION



NJ SHAPE SECTIONS

See Plan Insert sheets for specific NJ Shape Concrete barrier details.



SINGLE SLOPE SECTIONS

See SCD RM-4.3 and RM-4.5 for specific Single Slope concrete barrier details.

NOTES

GENERAL: This insert details the Barrier Transition, to connect existing NJ Concrete Barrier (safety shape) to a new run of Single Slope Concrete Barrier at locations shown on the plans. For NJ barrier shape and other details see the respective plan insert sheets. For Single Slope barrier details, see SCD RM-4.3 (RM-4.5 for Type D).

ADJACENT CONCRETE BARRIER RUNS: Remove any tapered end sections, Impact attenuators, or other guardrail hardware from existing barrier end. The barrier to barrier transition is not intended to be used at transition sections (those shown on SCD RM-4.4), Inlets, or on Type C or C1 Barrier. If proposed adjacent single slope barrier is Type A or A1, the Barrier Transiton should contain horizontal reinforcing steel similiar to that required in the respective single slope barrier. Reinforcement is not shown and should be detailed separately. The adjacent single slope end should be terminated with a reinforced End Anchor as detailed on the SCDs.

BARRIER FACE TRANSITION: To prevent vehicle snagging, a smooth transition from the safety shape face to the single slope face is made over a 20' length. The actual shape of the Transition is dependent on both the adjacent NJ barrier and the single slope barrier Types, as detailed on the plans. The contractor and Engineer will agree on a construction method to ensure a smooth barrier face.

MATERIALS: Materials are same for those shown on RM-4.3 and RM-4.5, except that cast-in-place is the only acceptable method. Edges may be chamfered or radiused as shown on those drawings.

CONCRETE BASE: Construct base as shown on the NJ shape insert sheets, including the methods detailing the footing joint, Permissible Construction Joint (PCJ), and Dowelling requirements. The width of the base matches the existing NJ barrier.

JOINTS: Construct joints as shown on respective barrier drawings.

RACEWAYS: When specified, place raceway(s) to match raceway elevation in adjoining segments. Place to obtain maximum concrete cover.

METRIC UNITS: Refer to respective barrier drawings or inserts for metric dimensions.

PAYMENT: This Barrier Transiton shall include all material and labor needed to construct this 20' section, including any raceways, reinforcing steel, dowels and other necessary incidentals. Payment shall be made at the unit price for Item 622 - Barrier Transition, Each.

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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OFFICE OF ROADWAY ENGINEERING

DESIGNED XXX
REVIEWED XXX
CHECKED CHECKED
REVISION DATE 10/20/2006

PLAN INSERT SHEET

NJ SHAPE TO SINGLE SLOPE BARRIER TRANSITION

PLAN INSERT SHEET

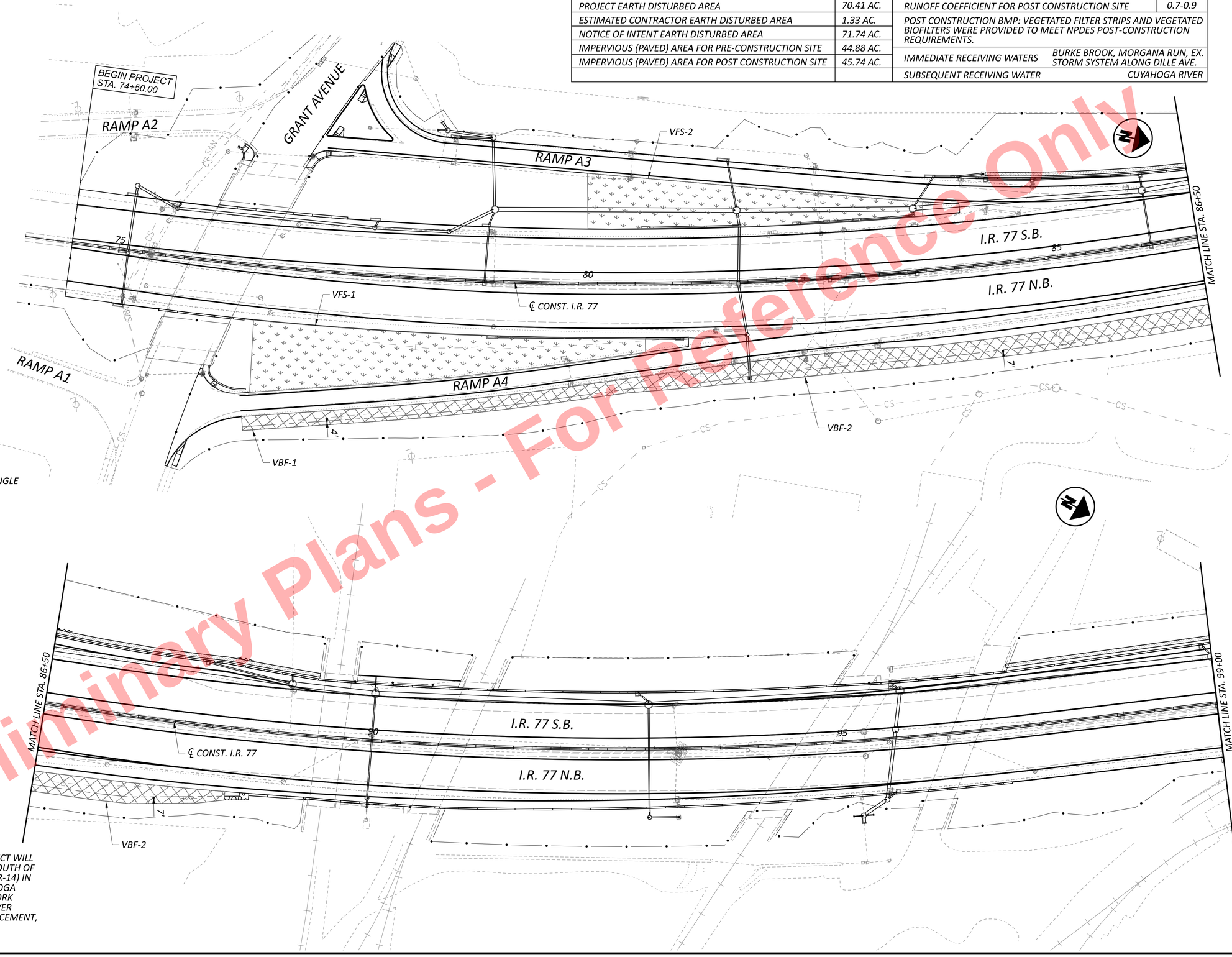
PIS NJ-SSCB-TRANS

1 1
0 0

DESIGN AGENCY
HNTB

DESIGNER ASEP
REVIEWER KKP 05/01/26
PROJECT ID 105743
SHEET P.698A TOTAL P.1269

PROJECT DATA			
TOTAL AREA (RIGHT-OF-WAY)	75.63 AC.	RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.7-0.9
PROJECT EARTH DISTURBED AREA	70.41 AC.	RUNOFF COEFFICIENT FOR POST CONSTRUCTION SITE	0.7-0.9
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	1.33 AC.	POST CONSTRUCTION BMP: VEGETATED FILTER STRIPS AND VEGETATED BIOFILTERS WERE PROVIDED TO MEET NPDES POST-CONSTRUCTION REQUIREMENTS.	
NOTICE OF INTENT EARTH DISTURBED AREA	71.74 AC.		
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE	44.88 AC.	IMMEDIATE RECEIVING WATERS	BURKE BROOK, MORGANA RUN, EX. STORM SYSTEM ALONG DILLE AVE.
IMPERVIOUS (PAVED) AREA FOR POST CONSTRUCTION SITE	45.74 AC.		
		SUBSEQUENT RECEIVING WATER	CUYAHOGA RIVER



USGS MAP: CLEVELAND SOUTH QUADRANGLE
CUYAHOGA COUNTY, OHIO

*LATITUDE: 41°27'20" **
*LONGITUDE: 81°39'17" **

** LONGITUDE AND LATITUDE TO APPROX. CENTER OF PROJECT*

LEGEND

- INLET
- BARRIER INLET
- CATCH BASIN
- MANHOLE
- VEGETATED FILTER STRIP (VFS)
- VEGETATED BIOFILTER (VBF)
- EXISTING FILTER STRIP

PROJECT DESCRIPTION

THE CUY-77 MAJOR REHABILITATION PROJECT WILL REPLACE THE PAVEMENT OF IR-77 FROM SOUTH OF GRANT AVENUE TO BROADWAY AVENUE (SR-14) IN THE VILLAGES OF NEWBURGH AND CUYAHOGA HEIGHTS AND THE CITY OF CLEVELAND. WORK INCLUDES REPLACING THE IR-77 BRIDGE OVER MORGANA RUN, DRAINAGE SYSTEM REPLACEMENT, AND LIGHTING REPLACEMENT.

Preliminary Plans - Plans For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

SITE PLAN - I.R. 77
BEGINNING TO STA. 99+00

CUY-77-11.41 - PART 1

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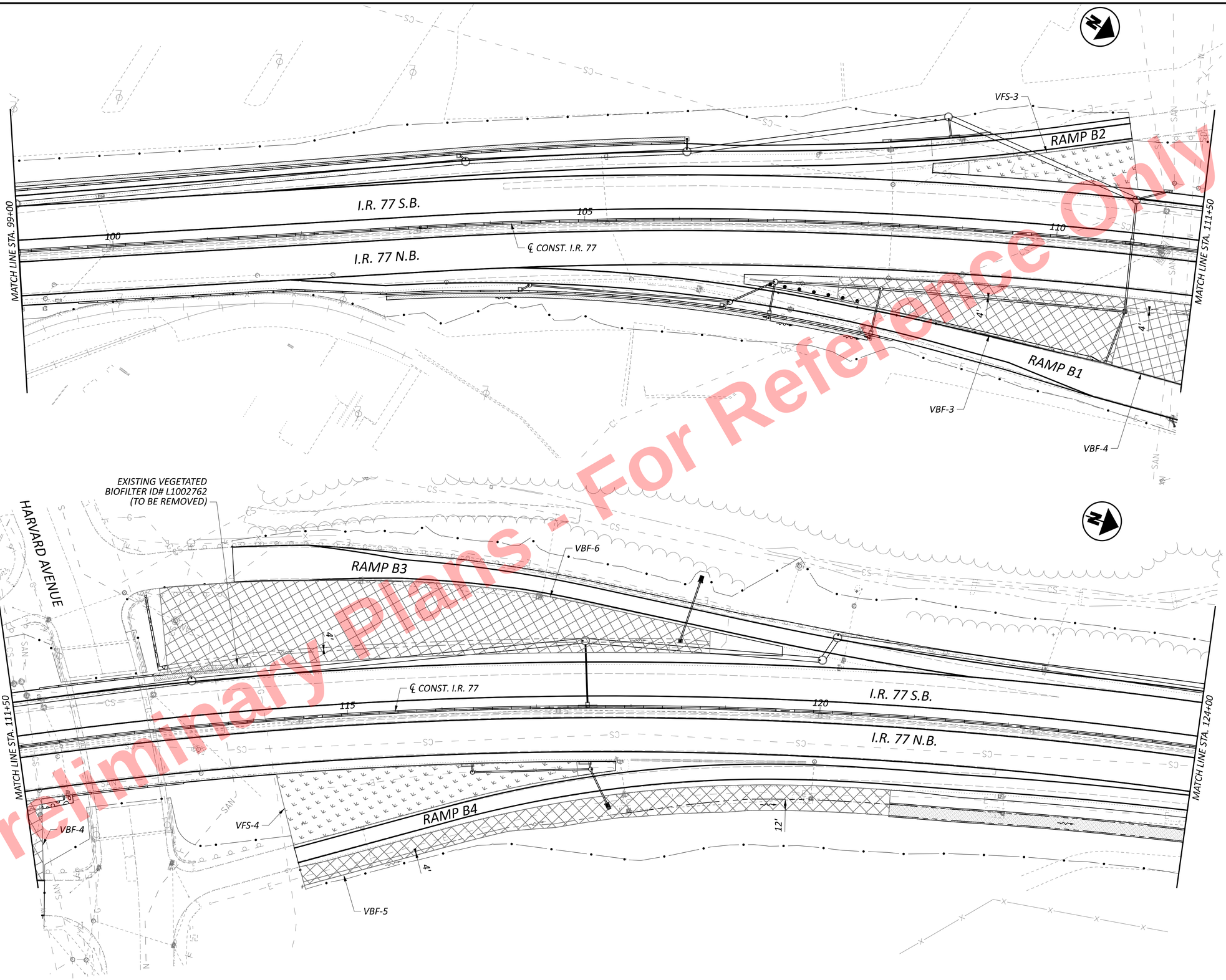
DESIGN AGENCY
AECOM

DESIGNER	MAW
REVIEWER	AKM 05/01/26
PROJECT ID	105743
SHEET	P.699
TOTAL	P.1269

Preliminary Plans - For Reference Only



HORIZONTAL SCALE IN FEET
0 25 50 100

SITE PLAN - I.R. 77
STA. 99+00 TO STA. 124+00

CUY-77-11.41 - PART 1

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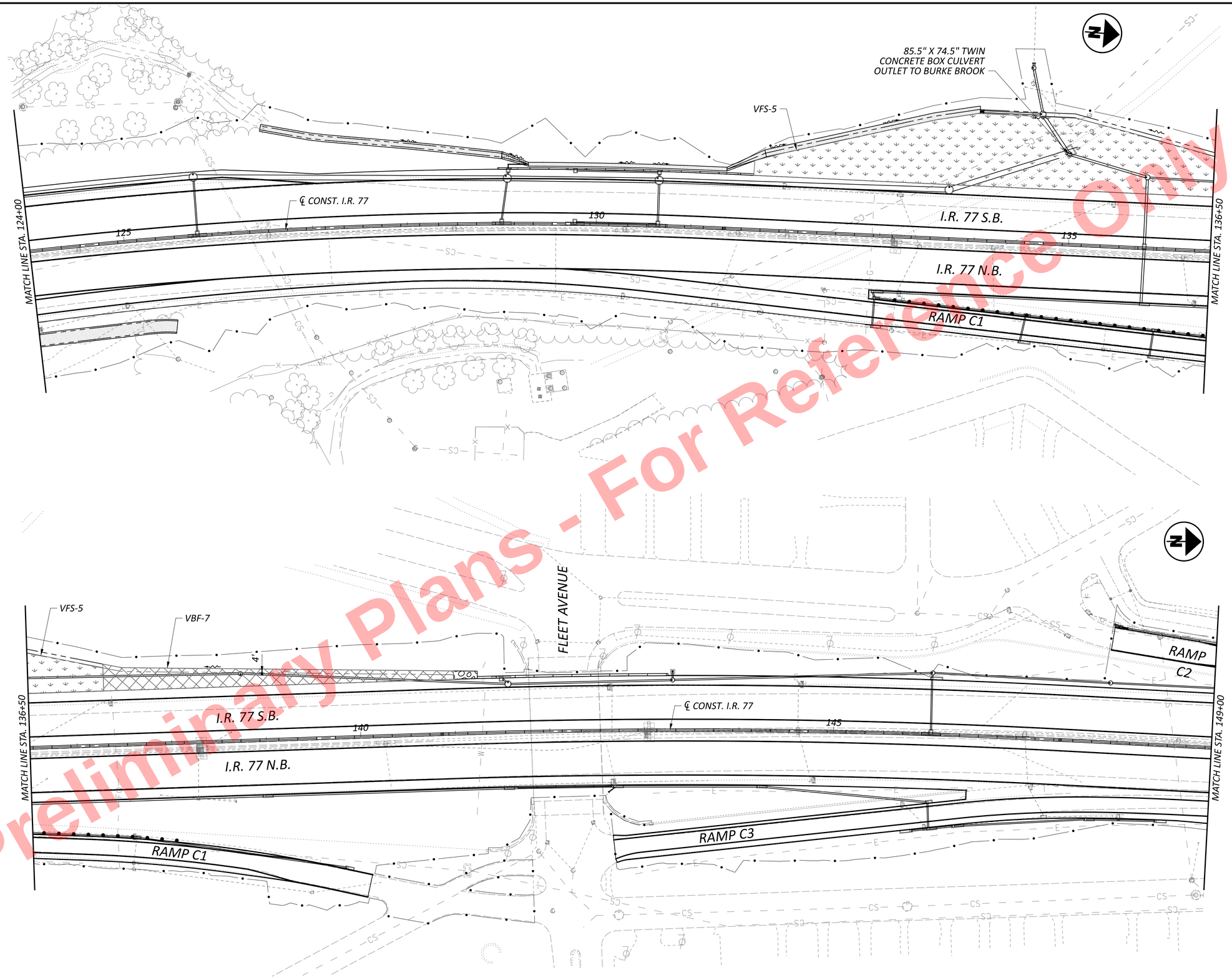
DESIGN AGENCY
AECOM

DESIGNER	MAW
REVIEWER	AKM 05/01/26
PROJECT ID	105743
SHEET	P.700
TOTAL	P.1269



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

SITE PLAN - I.R. 77
STA. 124+00 TO STA. 149+00

DESIGN AGENCY
AECOM

DESIGNER MAW
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.701 TOTAL P.1269

CUY-77-11.41 - PART 1

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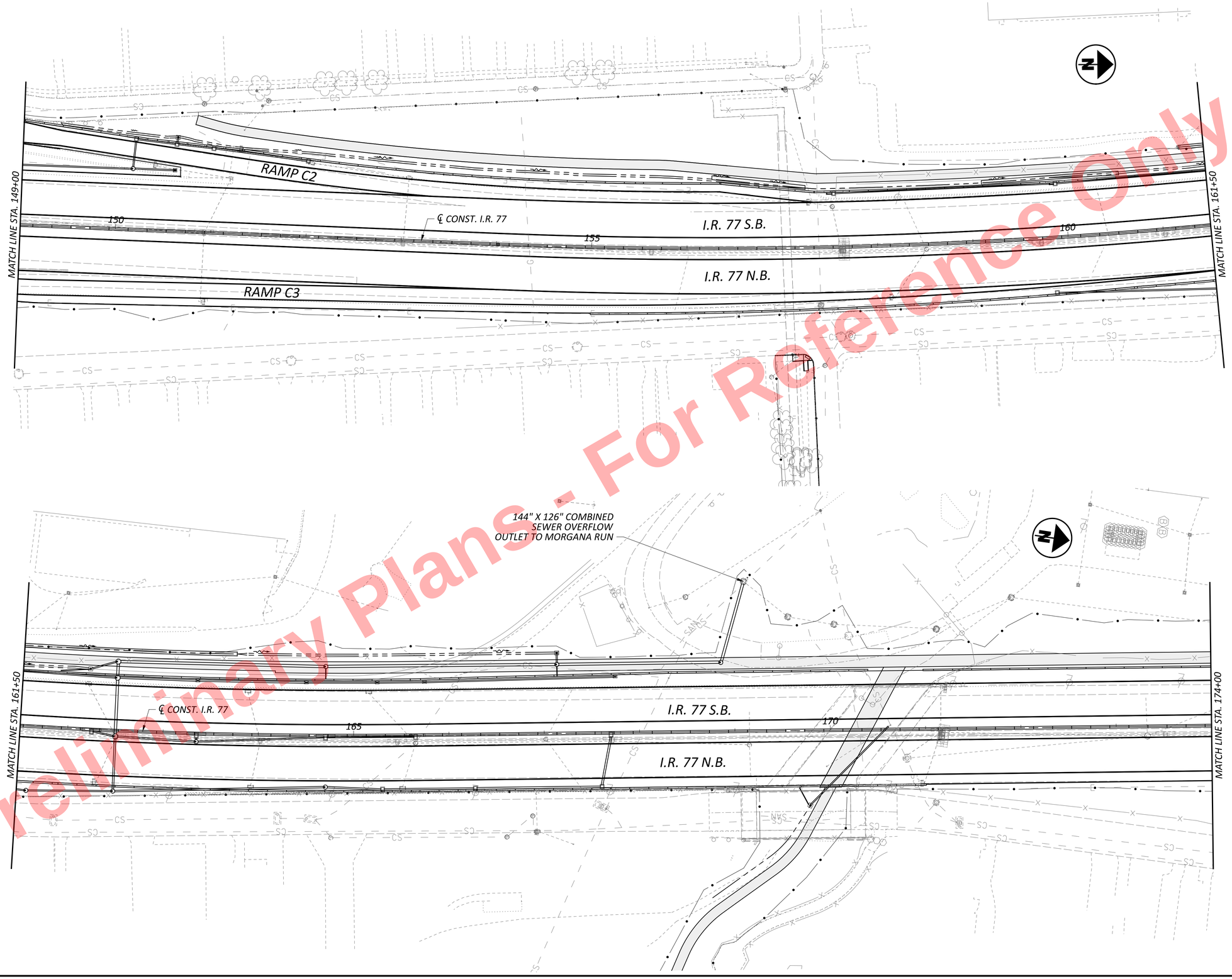
Preliminary Plans - For Reference Only



HORIZONTAL SCALE IN FEET
0 25 50 100

SITE PLAN - I.R. 77
STA. 149+00 TO STA. 174+00

DESIGN AGENCY
AECOM

DESIGNER MAW
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.702 TOTAL P.1269

CUY-77-11.41 - PART 1

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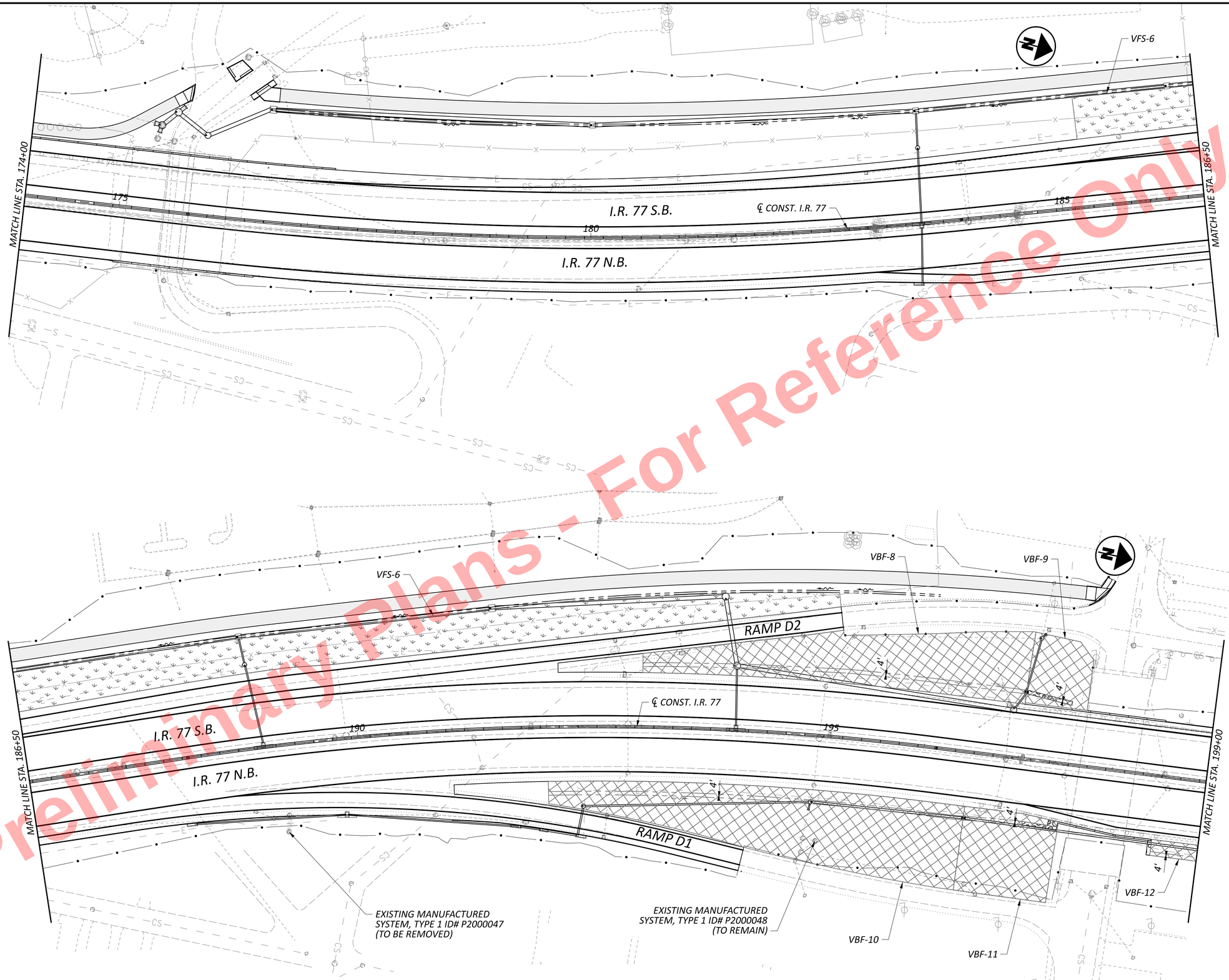
CUY-77-11.41 - PART 1



Preliminary Plans - For Reference Only

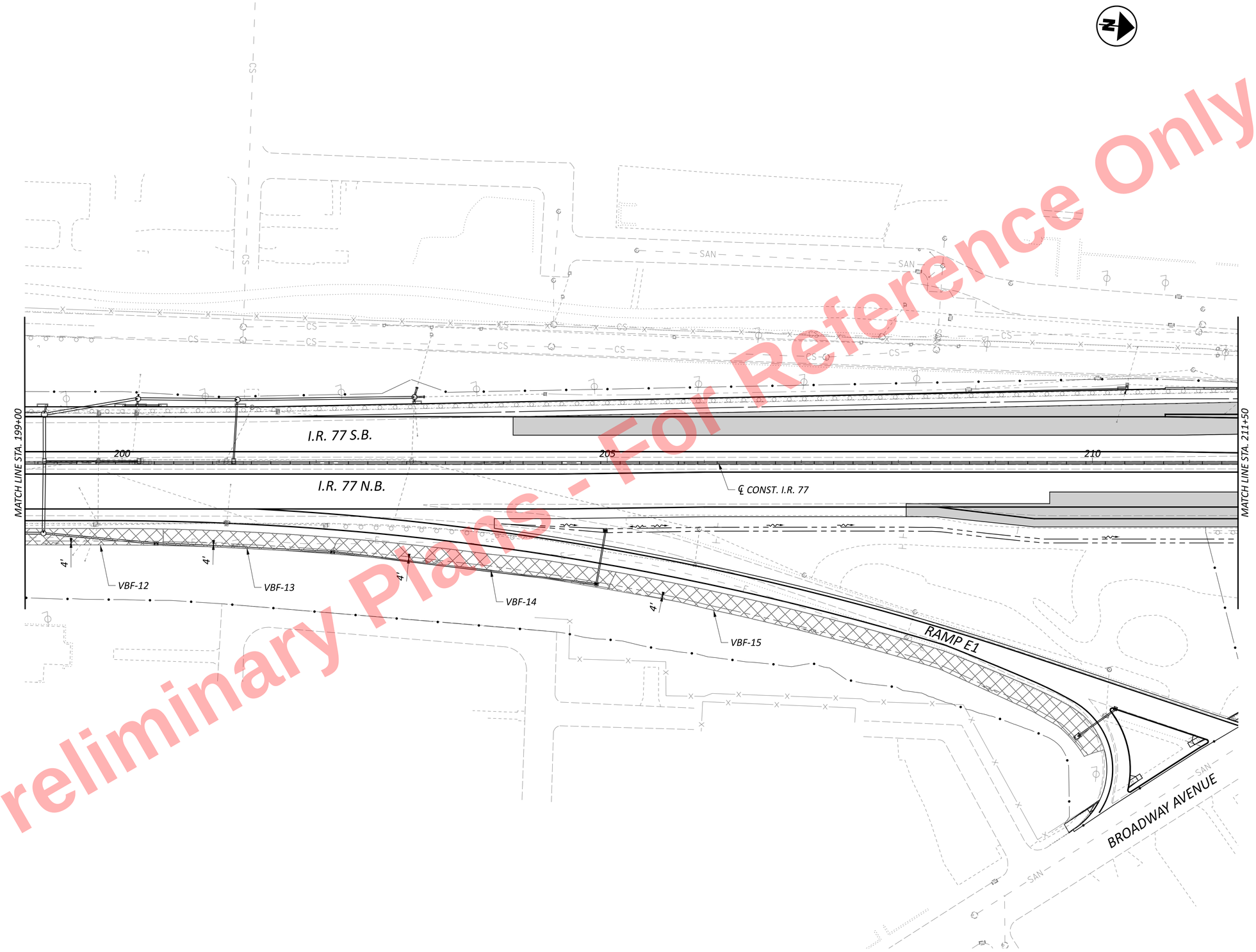
HORIZONTAL SCALE IN FEET
0 25 50 100

SITE PLAN - I.R. 77
STA. 174+00 TO STA. 199+00

DESIGN AGENCY
AECOM

DESIGNER MAW
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.703 TOTAL P.1269

Preliminary Plans - For Reference Only



HORIZONTAL SCALE IN FEET
0 25 50 100

SITE PLAN - I.R. 77
STA. 199+00 TO STA. 211+50

DESIGN AGENCY
AECOM

DESIGNER MAW
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.704 TOTAL P.1269

CUY-77-11.41 - PART 1

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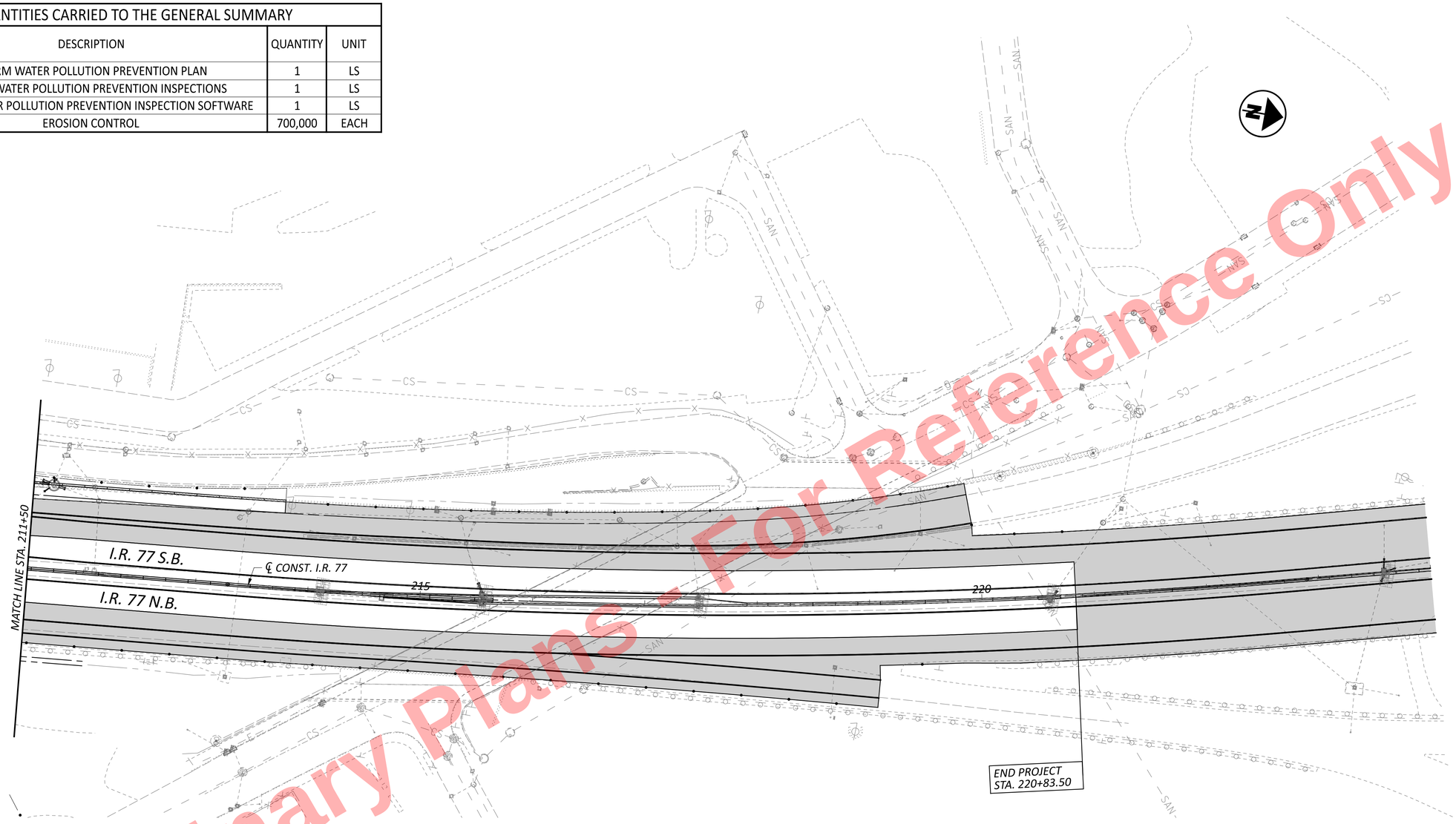
QUANTITIES CARRIED TO THE GENERAL SUMMARY			
ITEM	DESCRIPTION	QUANTITY	UNIT
832	STORM WATER POLLUTION PREVENTION PLAN	1	LS
832	STORM WATER POLLUTION PREVENTION INSPECTIONS	1	LS
832	STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	1	LS
832	EROSION CONTROL	700,000	EACH



Preliminary Plans - For Reference Only

BMP TYPE	LATITUDE/LONGITUDE BEGIN		LATITUDE/LONGITUDE END		BMP WIDTH (FEET)	EDA TREATMENT CREDIT (ACRES)	659 TOPSOIL (CY)	670 SLOPE EROSION PROTECTION (SY)	670 DITCH EROSION PROTECTION (SY)
VEGETATED BIOFILTER 1 (VBF-1)	-81.648691	41.439216	-81.649287	41.440635	15.9	1.10	53.0		954.7
VEGETATED BIOFILTER 2 (VBF-2)	-81.649287	41.440635	-81.650158	41.442427	20.8	0.97	89.4		1609.3
VEGETATED BIOFILTER 3 (VBF-3)	-81.654026	41.446841	-81.654567	41.447571	49.9	0.89	94.0		1691.7
VEGETATED BIOFILTER 4 (VBF-4)	-81.654567	41.447571	-81.654707	41.447780	78.3	0.25	41.1		739.3
VEGETATED BIOFILTER 5 (VBF-5)	-81.654774	41.448553	-81.655782	41.450110	23.4	4.07	91.8		1652.8
VEGETATED BIOFILTER 6 (VBF-6)	-81.655317	41.448014	-81.656059	41.449486	70.3	1.55	249.2		4484.8
VEGETATED BIOFILTER 7 (VBF-7)	-81.656871	41.454543	-81.656907	41.455559	17.0	1.50	38.9		699.6
VEGETATED BIOFILTER 8 (VBF-8)	-81.659264	41.469554	-81.659462	41.470656	49.9	0.65	125.0		2250.9
VEGETATED BIOFILTER 9 (VBF-9)	-81.659462	41.470656	-81.659482	41.470836	70.0	0.12	28.5		513.7
VEGETATED BIOFILTER 10 (VBF-10)	-81.658777	41.469352	-81.659022	41.470548	62.1	1.30	169.5		3051.2
VEGETATED BIOFILTER 11 (VBF-11)	-81.659022	41.470548	-81.659040	41.470822	90.3	0.37	54.6		983.6
TOTALS CARRIED TO NEXT TABLE							1035		18632

BMP TYPE	LATITUDE/LONGITUDE BEGIN		LATITUDE/LONGITUDE END		BMP WIDTH (FEET)	EDA TREATMENT CREDIT (ACRES)	659 TOPSOIL (CY)	670 SLOPE EROSION PROTECTION (SY)	670 DITCH EROSION PROTECTION (SY)
VEGETATED BIOFILTER 12 (VBF-12)	-81.659049	41.471099	-81.659108	41.471622	17.0	0.76	20.1		362.2
VEGETATED BIOFILTER 13 (VBF-13)	-81.659108	41.471622	-81.659132	41.472122	17.0	0.55	18.6		335.0
VEGETATED BIOFILTER 14 (VBF-14)	-81.659132	41.472122	-81.659095	41.472909	17.5	1.60	31.0		557.9
VEGETATED BIOFILTER 15 (VBF-15)	-81.659095	41.472909	-81.658589	41.474328	20.5	0.72	66.9		1203.3
VEGETATED FILTER STRIP 1 (VFS-1)	-81.649067	41.439195	-81.649299	41.440325	46.6	0.44	118.1	2125.7	
VEGETATED FILTER STRIP 2 (VFS-2)	-81.649671	41.440098	-81.649975	41.441047	38.4	0.35	86.1	1549.7	
VEGETATED FILTER STRIP 3 (VFS-3)	-81.654630	41.446991	-81.654942	41.447426	31.3	0.14	34.5	621.0	
VEGETATED FILTER STRIP 4 (VFS-4)	-81.655084	41.448404	-81.655500	41.449220	44.0	0.35	86.9	1565.0	
VEGETATED FILTER STRIP 5 (VFS-5)	-81.656814	41.452990	-81.656871	41.454543	37.6	1.05	189.5	3411.9	
VEGETATED FILTER STRIP 6 (VFS-6)	-81.658434	41.467484	-81.659673	41.470076	37.1	1.15	229.6	4132.7	
EXISTING MANUFACTURED SYSTEM	-81.658770	41.470144				0.50			
TOTALS FROM THIS TABLE							882	13406	2459
TOTALS CARRIED FROM PREVIOUS TABLE							1035		18632
TOTALS CARRIED TO GENERAL SUMMARY							1917	13406	21091

HORIZONTAL SCALE IN FEET
0 25 50 100

SITE PLAN - I.R. 77
STA. 211+50 TO STA. 224+00

DESIGN AGENCY
AECOM

DESIGNER MAW
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.705 TOTAL P.1269

CUY-77-11.41 - PART 1

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pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DN001.dgn

DRAINAGE

REVIEW OF DRAINAGE FACILITIES

PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE, PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY THE DEPARTMENT.

CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT, 24" AND UNDER

ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT, 27" TO 48"

THIS ITEM SHALL CONSIST OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING CONDUIT AND FILLING THE AREA THUS SEALED OFF WITH ITEM 613, SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER.

LOCATE THE BULKHEADS AT THE LIMITS OF THE AREA TO BE FILLED, AS INDICATED ON THE PLANS. THE BULKHEADS CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

PUMP THE FILL MATERIAL INTO PLACE OR BY OTHER MEANS APPROVED BY THE ENGINEER, SO THAT AFTER SETTLEMENT, AT LEAST 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH IS FILLED. THE LENGTH OF FILLED AND PLUGGED CONDUIT TO BE PAID FOR IS THE ACTUAL NUMBER OF FEET (MEASURED ALONG THE CENTERLINE OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS) FILLED AND PLUGGED AS DESCRIBED ABOVE.

IN LIEU OF FILLING AND PLUGGING THE EXISTING CONDUIT, THE PIPE MAY BE CRUSHED AND BACKFILLED IN ACCORDANCE WITH THE PROVISIONS OF 203, OR IT MAY BE REMOVED. THE LENGTH, MEASURED AS PROVIDED ABOVE, SHALL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR, ITEM SPECIAL, FILL AND PLUG EXISTING CONDUIT.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

PIPE CONNECTIONS TO CORRUGATED METAL STRUCTURES

PROVIDE CONNECTIONS OF PROPOSED LONGITUDINAL DRAINAGE TO CORRUGATED METAL STRUCTURES BY MEANS OF A SHOP FABRICATED OR FIELD WELDED STUB ON THE STRUCTURE. FURNISH A STUB MEETING THE REQUIREMENTS OF 707 WITH A MINIMUM LENGTH OF 2 FEET AND A MINIMUM WALL THICKNESS OF 0.064 INCHES.

THE LOCATION AND ELEVATION OF THE STUB ARE TO BE CONSIDERED APPROXIMATE AND MAY BE ADJUSTED BY THE ENGINEER TO AVOID CUTTING THROUGH JOINTS IN THE STRUCTURE.

THOROUGHLY CLEAN AND REGALVANIZE OR OTHERWISE SUITABLY REPAIR THE FIELD WELDED JOINT, IF USED. MEET WELDING REQUIREMENTS OF 513.21.

PROVIDE A MASONRY COLLAR PER STANDARD CONSTRUCTION DRAWING DM-1.1, TO CONNECT THE LONGITUDINAL DRAINAGE TO THE STUB, WHEN PIPE OTHER THAN CORRUGATED METAL IS USED FOR THE LONGITUDINAL DRAINAGE.

PAYMENT FOR CUTTING INTO THE STRUCTURE AND PROVIDING THE CONNECTION DESCRIBED, IS INCLUDED IN THE CONTRACT PRICE FOR ITEM 611 OR 522.

ITEM 611 - CONDUIT, BORED OR JACKED

WHERE IT IS SPECIFIED THAT A CONDUIT BE INSTALLED BY THE METHOD OF BORING OR JACKING, NO TRENCH EXCAVATION IS PERMITTED WITHIN 10 FEET OF THE EDGE OF PAVEMENT. PROVIDE A STEEL CASING PIPE CONFORMING TO 748.06. JOINTS WITH A CIRCUMFERENCIAL FULLY PENETRATING B-U4B WELD THAT IS PERFORMED BY CERTIFIED WELDER FOR WELDING CODE AMERICAN WELDING SOCIETY (AWS) D1. 1 OR MACHINED INTERLOCKING JOINTS ARE PERMITTED. THE INSTALLED CASING PIPE IS THE STORM WATER CONVEYANCE CARRIER UNLESS OTHERWISE SPECIFIED IN THE PLANS. HYDROSTATIC TESTING IS NOT REQUIRED FOR THE CASING PIPE.

MANHOLES, CATCH BASINS AND INLETS REMOVED OR ABANDONED

ALL CASTINGS SHALL BE CAREFULLY REMOVED AND STORED WITHIN THE RIGHT OF WAY FOR SALVAGE BY STATE FORCES.

PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 202 ITEM.

ITEM SPECIAL- MISCELLANEOUS METAL

EXISTING CASTINGS MAY PROVE TO BE UNSUITABLE FOR REUSE, AS DETERMINED BY THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CASTINGS OF THE REQUIRED TYPE, SIZE AND STRENGTH (HEAVY OR LIGHT DUTY) FOR THE PARTICULAR STRUCTURE IN QUESTION. ALL MATERIAL SHALL MEET ITEM 611 OF THE SPECIFICATIONS AND SHALL HAVE THE PRIOR APPROVAL OF THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

SPECIAL, MISCELLANEOUS METAL	15,000 LB

THE CONTRACTOR IS CAUTIONED TO USE EXTREME CARE IN THE REMOVAL, STORAGE AND REPLACEMENT OF ALL EXISTING CASTINGS. CASTINGS DAMAGED BY THE NEGLIGENCE OF THE CONTRACTOR, AS DETERMINED BY THE ENGINEER, SHALL BE REPLACED WITH THE PROPER NEW CASTINGS AT THE EXPENSE OF THE CONTRACTOR.

ITEM 611 - 15", SLOTTED DRAIN, TYPE 2

THIS ITEM SHALL CONSIST OF 15 INCH DIAMETER SLOTTED DRAIN ALUMINUM COATED STEEL CONDUIT 707.01 WITH 6 INCH TRAPEZOIDAL GALVANIZED SOLID BAR GRATE AS APPROVED BY THE ENGINEER. ALL COSTS FOR LABOR AND MATERIALS, INCLUDING TYPE 2 BEDDING, AND BACKFILLING AS DETAILED ON STANDARD CONSTRUCTION DRAWING DM-1.3 SHALL BE INCLUDED IN THE PRICE BID PER FOOT FOR ITEM 611 - 15" SLOTTED DRAIN, TYPE 2.

SEE THE MOT PHASING SHEETS FOR THE PROPOSED LOCATIONS OF THIS ITEM AND THE MOT SUBSUMMARIES FOR THE ESTIMATED QUANTITIES.

ITEM SPECIAL - PIPE CLEANOUT, 24" AND UNDER

ITEM SPECIAL - PIPE CLEANOUT, 27" TO 48"

THIS WORK SHALL CONSIST OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. DISPOSE OF ALL MATERIAL PER 105.16 AND 105.17. CLEAN OUT TO THE APPROVAL OF THE ENGINEER.

CLEANOUT OF THE PIPE SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL, PIPE CLEANOUT. THIS PRICE INCLUDES THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

SUBSURFACE DRAINAGE

SUPPLEMENTAL UNDERDRAIN QUANTITIES HAVE BEEN INCLUDED TO ADDRESS LOCATIONS WITH HIGH GROUNDWATER ENCOUNTERED DURING CONSTRUCTION, AS DIRECTED BY THE PROJECT ENGINEER.

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL UNDERDRAINS. UNDERDRAINS MAY CONNECT TO PROPOSED UNDERDRAINS OR TO PROPOSED OUTLET STRUCTURES. PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR UNDERDRAINS THAT OUTLET TO A SLOPE.

PLANS WILL INCLUDE A CONTINGENCY FOR UNDERDRAINS, FOR USE BY THE PROJECT ENGINEER, AS DIRECTED. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 1	4 SY
ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	500 FT
ITEM 605 - 6" UNCLASSIFIED PIPE UNDERDRAINS	100 FT
ITEM 611 - 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	250 FT
ITEM 611 - PRECAST REINFORCED CONCRETE OUTLET	1 EACH

UNKNOWN DRAINAGE FACILITIES TO BE REMOVED

THERE MAY BE EXISTING CONDUITS AND DRAINAGE STRUCTURES PREVIOUSLY ABANDONED BUT NOT FIELD LOCATED WITHIN THE PROJECT LIMITS. THOSE FACILITIES MAY NEED REMOVED TO AVOID CONFLICT WITH PROPOSED WORK, AS DIRECTED BY THE ENGINEER.

THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO ACCOUNT FOR THESE VARIOUS ELEMENTS AND SITUATIONS, AS DIRECTED BY THE ENGINEER:

ITEM 202 - PIPE REMOVED, 24" DIAMETER AND UNDER	2,000 FT
ITEM 202 - PIPE REMOVED, OVER 24" DIAMETER	500 FT
ITEM 202 - MANHOLE REMOVED	10 EACH
ITEM 202 - CATCH BASIN REMOVED	10 EACH
ITEM 202 - INLET REMOVED	10 EACH

ITEM 202 - REMOVAL MISC.: MANUFACTURED SYSTEM, TYPE 1 REMOVED

THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT CMS ITEM 202.

ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO PERFORM THE WORK TO REMOVE THE MANUFACTURED SYSTEM INDICATED ON THE PLAN SHEETS AS DA-241 SHALL BE INCLUDED IN THE CONTRACT PRICE PER EACH FOR ITEM 202 - REMOVAL MISC.: MANUFACTURED SYSTEM, TYPE 1 REMOVED.

ITEM 202 - REMOVAL MISC.: TRENCH DRAIN REMOVED

THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT CMS ITEM 202.

ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO PERFORM THE WORK TO REMOVE THE TRENCH DRAINS INDICATED ON THE PLAN SHEETS AS DA-102A AND DA-175A SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR ITEM 202 - REMOVAL MISC.: TRENCH DRAIN REMOVED.

ITEM 202 - INLET ABANDONED, AS PER PLAN

THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT CMS ITEM 202.

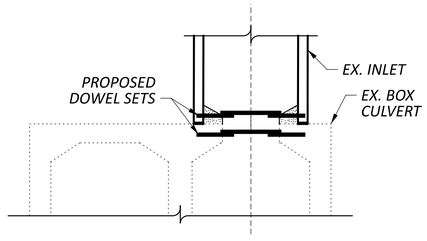
THE DA-130 INLET AT APPROX. STA 133+15 RESTS ATOP THE SKEWED EXISTING BOX CULVERT. THERE IS A RECTANGULAR CUT INTO THE TOP OF THE CULVERT, RESULTING IN TWO RECTANGLES SITTING ATOP ONE ANOTHER.

ODOT INSPECTED AND REVIEWED SITE PHOTOS. THE INLET SHALL BE ABANDONED IN THE FOLLOWING MANNER, OR AS DIRECTED BY THE PROJECT ENGINEER:

- THE CONTRACTOR SHALL REMOVE ALL EXISTING TUFA BUILDUP. THE CONTRACTOR SHALL EXPECT TO ENCOUNTER 6" TO 12" THICK OF TUFA BUILDUP THAT WILL NEED JACKHAMMERED OUT. HARDENED CONCRETE OR TUFA MATERIAL SHALL BE REMOVED TO EXPOSE THE EXISTING INLET AND BOX CULVERT WALLS.
- THE CONTRACTOR SHALL TAKE PHOTOS OF ABANDONMENT WORK TO AVOID THE CONSTRUCTION INSPECTION TEAM FROM NEEDING CONFINED SPACE ENTRY.
- THE CONTRACTOR SHALL REMOVE A PORTION OF THE PIPE ON EITHER SIDE OF THE INLET.
- THE CONTRACTOR SHALL DOWEL IN AND TIE INTO THE WALLS AND BOX CULVERT STRUCTURE WITH TWO SETS OF DOWELS.
- THE CONTRACTOR SHALL SPECIFY 12" THICKNESS TO SPAN.
- THE CONTRACTOR SHALL SPECIFY ACCESS STEPS.
- THE CONTRACTOR SHALL INSTALL LIGHT WEIGHT FILL ATOP.

PAYMENT FOR ALL OPERATIONS, LABOR, MATERIALS, AND EQUIPMENT DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR ITEM 202, INLET ABANDONED, AS PER PLAN.

THE FOLLOWING DETAIL IS FOR VISUALIZATION PURPOSES OF THE ABOVE NOTE ONLY AND IS NOT TO SCALE.



ELEVATION VIEW

ITEM 611 - CONDUIT, AS PER PLAN 1

ITEM 611 - CONDUIT MISC.: AS PER PLAN 1

PLACEHOLDER FOR NOTE THAT IS TO BE SUPPLIED BY ODOT.

Preliminary Plans - For Reference Only

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
MAW 03/14/26

PROJECT ID
105743

SHEET P.706 | TOTAL P.1269

ITEM 611 - CONDUIT, AS PER PLAN 2

THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT CMS ITEM 611. IN ADDITION TO THE REQUIREMENTS STATED IN ITEM 611, CONDUIT, AS PER PLAN 1, THE FOLLOWING ADDITIONAL ELEMENTS ARE REQUIRED.

PORTIONS OF THE ORIGINAL BRIDGE FOUNDATIONS AND/OR EXISTING FOOTERS THAT CONFLICT WITH THE PROPOSED STORM SEWER SHALL BE REMOVED WITH THE CONSTRUCTION OF NEW CONDUIT.

PAYMENT FOR ALL OPERATIONS, EQUIPMENT, AND MATERIAL REQUIRED TO PERFORM THE ABOVE IS INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR THE PERTINENT ITEM 611, CONDUIT, AS PER PLAN 2.

ITEM 611 - CONDUIT, AS PER PLAN 3

THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT CMS ITEM 611. IN ADDITION TO THE REQUIREMENTS STATED IN ITEM 611, CONDUIT, AS PER PLAN 1, THE FOLLOWING ADDITIONAL ELEMENTS ARE REQUIRED.

FOR LOCATIONS WHERE COMPACTION EQUIPMENT CANNOT OPERATE EFFECTIVELY, LSM BACKFILL IS REQUIRED AROUND CONDUIT AND STRUCTURES TO AVOID COMPACTION ISSUES BETWEEN MANHOLES, CATCH BASINS, INLETS AND PIPES.

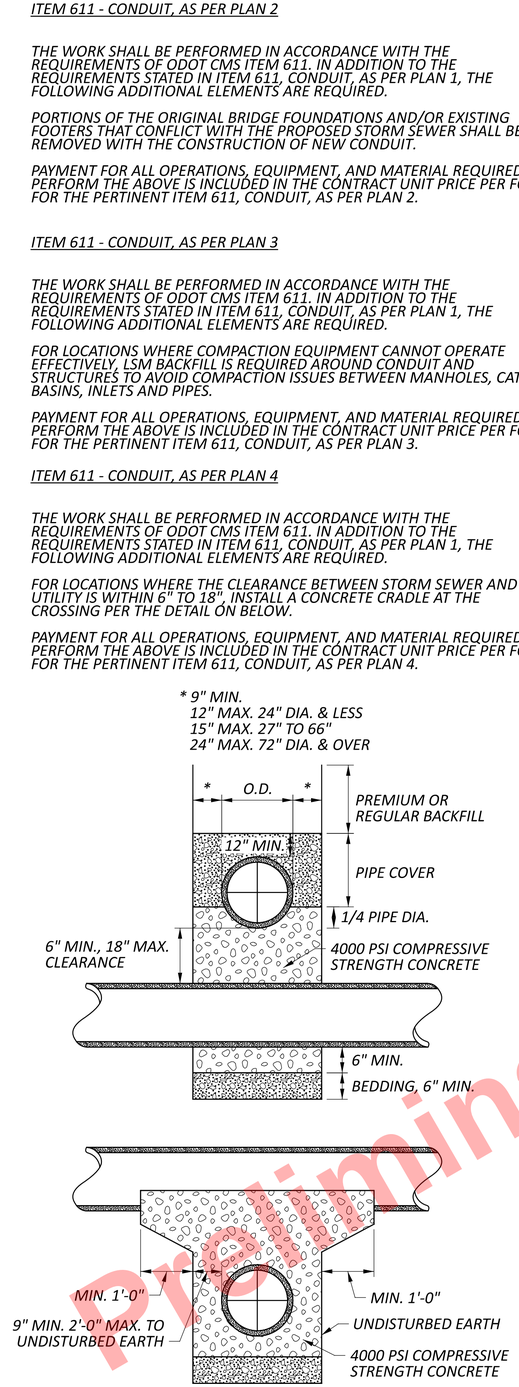
PAYMENT FOR ALL OPERATIONS, EQUIPMENT, AND MATERIAL REQUIRED TO PERFORM THE ABOVE IS INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR THE PERTINENT ITEM 611, CONDUIT, AS PER PLAN 3.

ITEM 611 - CONDUIT, AS PER PLAN 4

THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT CMS ITEM 611. IN ADDITION TO THE REQUIREMENTS STATED IN ITEM 611, CONDUIT, AS PER PLAN 1, THE FOLLOWING ADDITIONAL ELEMENTS ARE REQUIRED.

FOR LOCATIONS WHERE THE CLEARANCE BETWEEN STORM SEWER AND A UTILITY IS WITHIN 6" TO 18", INSTALL A CONCRETE CRADLE AT THE CROSSING PER THE DETAIL ON BELOW.

PAYMENT FOR ALL OPERATIONS, EQUIPMENT, AND MATERIAL REQUIRED TO PERFORM THE ABOVE IS INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR THE PERTINENT ITEM 611, CONDUIT, AS PER PLAN 4.



CONCRETE CRADLE DETAILS
NOT TO SCALE

ITEM 611 - CONDUIT, AS PER PLAN 5

THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT CMS ITEM 611. IN ADDITION TO THE REQUIREMENTS STATED IN ITEM 611, CONDUIT, AS PER PLAN 1, THE FOLLOWING ADDITIONAL ELEMENTS ARE REQUIRED.

FOR LOCATIONS WHERE THE EXISTING STRUCTURE IS TO REMAIN IN PLACE, THE CONTRACTOR SHALL CORE INTO THE SIDE OF THE EXISTING STRUCTURE TO ESTABLISH THE PROPOSED STORM CONNECTION.

PAYMENT FOR ALL OPERATIONS, EQUIPMENT, AND MATERIAL REQUIRED TO PERFORM THE ABOVE IS INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR THE PERTINENT ITEM 611, CONDUIT, AS PER PLAN 5.

ITEM 611 - CATCH BASIN, NO. 5, AS PER PLAN

THE CONTRACTOR SHALL FIELD LOCATE THE EXISTING UNDERDRAIN AND ESTABLISH A POSITIVE DRAINAGE CONNECTION TO THE D-71B CATCH BASIN.

PAYMENT FOR ALL OPERATIONS, EQUIPMENT, AND MATERIAL REQUIRED TO PERFORM THE ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT ITEM 611, CATCH BASIN, NO. 5, AS PER PLAN.

ITEM 611 - INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN

THE CONTRACTOR MUST ACCOMMODATE THE SLOTTED DRAIN OUTLET AT THIS DRAINAGE STRUCTURE.

PAYMENT FOR ALL OPERATIONS, EQUIPMENT, AND MATERIAL REQUIRED TO PERFORM THE ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT ITEM 611, INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN.

ITEM 611 - INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 1

THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT CMS ITEM 611 AND ODOT STANDARD CONSTRUCTION DRAWING I-3D, EXCEPT AS MODIFIED HEREIN.

THE CONTRACTOR SHALL CONSTRUCT THE INLET AS CAST-IN-PLACE, ENSURING THAT THE INLET BOTTOM AND THE CONNECTION TO THE EXISTING 12-INCH STORM SEWER WHICH COMES THROUGH THE EXISTING FOOTER ARE FORMED IN THE FIELD TO MATCH EXISTING CONDITIONS. ALL FIELD ADJUSTMENTS NECESSARY TO ACHIEVE PROPER ALIGNMENT AND ELEVATION SHALL BE INCLUDED AT NO ADDITIONAL COST TO THE DEPARTMENT.

THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO NOT DISTURB, UNDERMINE, OR OTHERWISE IMPACT THE EXISTING RETAINING WALL.

PAYMENT FOR ALL OPERATIONS, EQUIPMENT, AND MATERIAL REQUIRED TO PERFORM THE ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT ITEM 611, INLET, NO. 3 FOR SINGLE SLOPE, TYPE D, AS PER PLAN 1.

ITEM 611 - INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 2

THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT CMS ITEM 611 AND ODOT STANDARD CONSTRUCTION DRAWING I-3D, EXCEPT AS MODIFIED HEREIN.

THE CONTRACTOR SHALL FORM AND CONSTRUCT THE RETAINING WALL AROUND THE INLET BOTTOM IN THE FIELD. ANY FIELD MODIFICATIONS NECESSARY TO PROPERLY INTEGRATE THE WALL WITH THE INLET STRUCTURE SHALL BE INCLUDED AT NO ADDITIONAL COST TO THE DEPARTMENT.

PAYMENT FOR ALL OPERATIONS, EQUIPMENT, AND MATERIAL REQUIRED TO PERFORM THE ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT ITEM 611, INLET, NO. 3 FOR SINGLE SLOPE, TYPE D, AS PER PLAN 2.

ITEM 611 - MANHOLE, NO. 5, AS PER PLAN

THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT CMS ITEM 611 AND ODOT STANDARD CONSTRUCTION DRAWING MH-5, EXCEPT AS SHOWN ON SHEETS P.712 - P.715.

PAYMENT FOR ALL OPERATIONS, EQUIPMENT, AND MATERIAL REQUIRED TO PERFORM ALL WORK SHOWN AND DESCRIBED IN THE DETAILS FOR CONSTRUCTION OF THE JUNCTION CHAMBER AND MANHOLE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT ITEM 611, MANHOLE, NO. 5, AS PER PLAN.

ITEM 611 - CATCH BASIN, NO. 6, AS PER PLAN

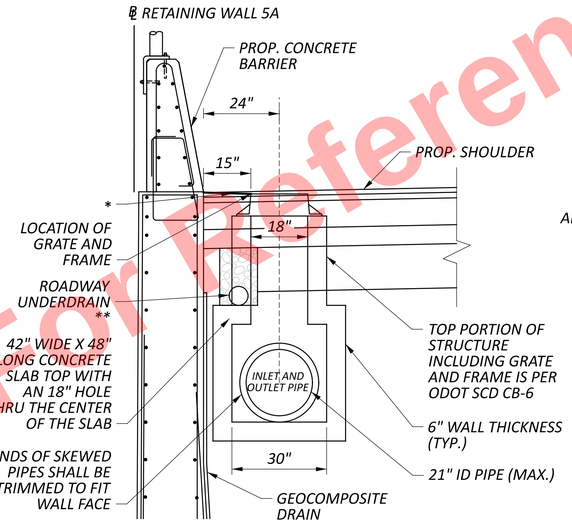
CATCH BASIN SHALL BE CONSTRUCTED IN CONFORMANCE WITH ITEM 611 AND ACCORDING TO THE STANDARD CONSTRUCTION DRAWING (SCD) CB-6, EXCEPT THAT "SECTION B-B W/O GUTTER" OF THE AFOREMENTIONED SCD SHALL BE MODIFIED AS SHOWN BELOW AND THAT NO BRICK OR CONCRETE BLOCK CONSTRUCTION SHALL BE PERMITTED.

REINFORCING STEEL TO MEET AASHTO HS20-44.

SIDEWALL THICKNESSES SHALL BE PER "WALLS" NOTE ON THE APPLICABLE SCD.

* CROSS SLOPE OF PAVED SHOULDER FROM CONCRETE BARRIER FACE TO CENTER OF CATCH BASIN SHALL BE INVERTED, OVER A LONGITUDINAL DISTANCE OF 10 FEET BEFORE AND AFTER THE STRUCTURE.

** UNDERDRAN CONNECTION WILL BE MADE INTO THE SIDE OF THE CATCH BASIN STRUCTURE VIA TYPE F CONDUIT.



ITEM 611 - MANHOLE MISC.: MANHOLE NO. 3 WITH BOLTED COVER

INCLUDE THE COSTS TO FURNISH AND INSTALL A NO. 3 MANHOLE ACCORDING TO THE APPLICABLE STANDARD DRAWINGS AND CMS 611, EXCEPT PROVIDE A BOLTED DOWN COVER, IN THE UNIT PRICE BID PER EACH FOR ITEM 611 – MANHOLE MISC.: MANHOLE NO. 3 WITH BOLTED COVER.

FURNISH A BOLTED DOWN COVER MEETING THE FOLLOWING REQUIREMENTS:

- FOUR (4) EQUALLY SPACED HALF-INCH (1/2") STAINLESS STEEL HEX CAP SCREWS CONFORMING TO ASTM F-593, ALLOY GROUP 1.
- PROVIDE COUNTERSINKS, HOLES, THREADING, AND PLACEMENT IN ACCORDANCE WITH THE CASTING MANUFACTURER'S RECOMMENDATIONS AND METHODS.
- TIGHTEN BOLTS ACCORDING TO MANUFACTURER'S TORQUE SPECIFICATIONS.

POSITION THE MANHOLE FRAME AND COVER AS SHOWN IN THE PLANS AND PLACE THE LID OUTSIDE OF THE TRAVEL LANES. ALIGN MANHOLE STEPS WITH LID LOCATION.

ITEM 611 - DRAINAGE STRUCTURE, MISC.: RESHAPE AND REESTABLISH EXISTING CONNECTION

THIS ITEM SHALL INCLUDE ALL WORK NECESSARY FOR THE CONTRACTOR TO FIELD LOCATE AND EXPOSE THE EXISTING CONNECTION POINT AT APPROXIMATELY STA. 170+60.75, 3' LT., NEAR THE MORGANA TRAIL STRUCTURE. THE CONTRACTOR SHALL UTILIZE THE EXISTING HOLE IN THE EXISTING BRICK SEWER AND FROM SAID CONNECTION POINT INSTALL THE PROPOSED 15-INCH CONDUIT TO FORM A NEW CONNECTION, AS DIRECTED BY THE PROJECT ENGINEER. ANY GROUTING, CHISELING, MACHINING OR LABOR REQUIRED TO ACCOMODATE THE NEW CONNECTION SHALL BE INCLUDED IN THE UNIT PRICE BID PER EACH.

POST CONSTRUCTION STORM WATER TREATMENT

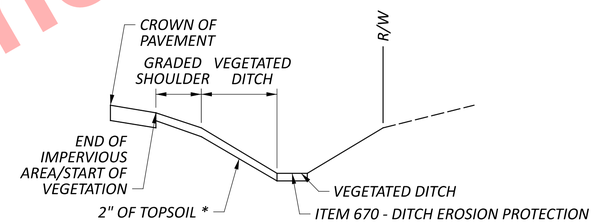
THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

VEGETATED FILTER STRIP

THIS PLAN UTILIZES VEGETATED FILTER STRIP(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AND ITEM 670, SLOPE EROSION PROTECTION TO ALL DISTURBED AREAS DESIGNATED AS VEGETATED FILTER STRIPS, THE EDGE OF SHOULDER, AND THE FORESLOPE AS SPECIFIED IN THE PLANS.

VEGETATED BIOFILTER

THIS PLAN UTILIZES VEGETATED BIOFILTER(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AS SHOWN IN THE VEGETATED BIOFILTER DETAIL BELOW TO ANY DISTURBED AREA ON THE SHOULDER AND FORESLOPE DRAINING TO A VEGETATED BIOFILTER. THE DITCH FOR EACH VEGETATED BIOFILTER IS TRAPEZOIDAL, AS SHOWN IN THE DETAIL BELOW AND PLAN CROSS SECTIONS. PROVIDE ITEM 670 AS SPECIFIED IN THE DETAIL BELOW AND WIDTH AS SPECIFIED IN THE PLANS.



VEGETATED BIOFILTER DETAIL
CROSS SECTION VIEW
NOT TO SCALE

* 2" OF THE TOTAL 4" OF TOPSOIL REQUIRED IS ACCOUNTED FOR IN THE SEEDING AND MULCHING QUANTITY

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1
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DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER MAW 03/14/26
PROJECT ID 105743
SHEET P.707 TOTAL P.1269

CUY-77-11.41 - PART 1

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ITEM 611 - INLET MISC.: BARRIER INLET SCREEN

THIS ITEM OF WORK INCLUDES FURNISHING AND INSTALLING A BARRIER INLET SCREEN.

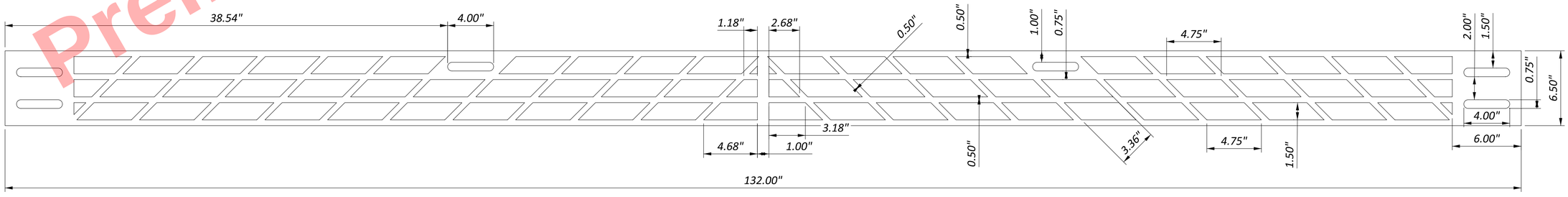
MANUFACTURE GRATES FROM ¼" THICK ASTM A36 HOT ROLLED STEEL PLATE ACCORDING TO THE DETAIL ON THIS PAGE.

PRIOR TO INSTALLATION, APPLY A MINIMUM OF 3 COATS OF COLD GALVANIZING PAINT TO ALL SURFACES OF THE GRATE. COLD GALVANIZING COATING MUST MEET ASTM A780. APPLY THE COLD GALVANIZING ACCORDING TO THE MANUFACTURERS INSTRUCTIONS.

SECURE THE GRATE TO THE CONCRETE BARRIER WITH 4 – ½" X 3" LONG CONCRETE ANCHOR SCREWS AND 9/16" ZINC COATED WASHERS.

INCLUDE THE COSTS FOR ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED TO PERFORM THE WORK DESCRIBED ABOVE IN THE UNIT PRICE BID PER EACH FOR ITEM 611 – INLET MISC.: BARRIER INLET SCREEN.

Preliminary Plans - For Reference Only



DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
MAW 03/14/26

PROJECT ID
105743

SHEET P.708 | TOTAL P.1269

NOTES:

1. FOR BURIED STRUCTURES, THE PROPOSED MANHOLE FRAME AND SOLID COVER SHALL BE BURIED TO THE TOP OF THE PROPOSED AGGREGATE BASE LAYER.

2. FOR BOLTED STRUCTURES, SEE THE AS PER PLAN NOTE ON SHEET P.707.

COORDINATES OF STORM STRUCTURE CASTINGS BURIED IN ASPHALT

STRUCTURE	ALIGNMENT	STATION	OFFSET	SIDE	RIM ELEVATION	NORTHING (Y)	EASTING (X)
D-13A	I-77	81+67.00	57.00	RT	695.28	647434.995'	2201713.864'
D-22	I-77	85+99.00	57.50	LT	693.43	647816.431'	2201475.388'
D-32A	I-77	95+56.94	8.93	LT	694.53	648676.164'	2201080.317'
D-37	I-77	99+00.00	50.00	LT	690.56	648923.351'	2200839.037'

COORDINATES OF STORM STRUCTURE CASTINGS BOLTED

STRUCTURE	ALIGNMENT	STATION	OFFSET	SIDE	RIM ELEVATION	NORTHING (Y)	EASTING (X)
D-3A	I-77	75+56.50	51.00	LT	699.05	646815.999'	2201706.797'
D-3B	I-77	77+70.00	50.50	LT	696.49	647025.243'	2201683.562'
D-3D	I-77	78+50.00	51.00	LT	695.50	647103.299'	2201671.136'
D-27	I-77	89+10.00	53.00	LT	696.19	648097.473'	2201358.982'
D-30	I-77	89+98.44	61.06	RT	700.05	648228.426'	2201425.142'
D-28	I-77	90+00.00	50.00	LT	696.44	648178.341'	2201323.116'
D-31	I-77	92+94.00	47.00	LT	695.91	648434.075'	2201186.345'
D-32	I-77	95+65.00	50.00	LT	693.76	648656.510'	2201038.191'
D-39	I-77	103+77.00	67.00	LT	687.40	649293.614'	2200536.751'
D-105	RAMP B1	102+10.00	2.00	RT	682.83	649423.844'	2200610.318'
D-41	I-77	106+08.00	72.00	LT	684.55	649482.530'	2200397.650'
D-106	RAMP B1	104+23.00	2.00	RT	679.50	649609.316'	2200507.350'
D-43	I-77	110+80.00	46.50	LT	676.81	649906.817'	2200175.158'
D-43A	I-77	113+39.00	48.50	LT	673.14	650140.693'	2200057.664'
D-59	I-77	120+00.00	55.00	LT	663.62	650762.794'	2199821.916'
D-59A	I-77	120+14.49	79.54	LT	663.35	650772.439'	2199790.540'
D-61	I-77	125+78.00	62.00	LT	655.67	651334.151'	2199682.947'
D-64A	I-77	129+06.00	48.00	LT	651.36	651664.088'	2199656.754'
D-64	I-77	130+65.00	48.00	LT	651.26	651824.348'	2199645.609'
D-71A	I-77	133+71.00	52.00	LT	652.96	652132.405'	2199629.231'
D-84	I-77	141+57.00	51.00	LT	663.61	652918.345'	2199602.648'
D-86	I-77	143+30.00	53.00	LT	667.12	653091.653'	2199599.687'
D-156	I-77	162+50.00	6.00	RT	677.67	655009.969'	2199676.879'
D-162	I-77	162+50.00	55.50	LT	676.46	655003.608'	2199615.704'
D-158A	I-77	163+35.00	8.50	RT	677.37	655095.321'	2199669.873'
D-151A	I-77	164+70.54	54.00	RT	678.15	655236.409'	2199697.201'
D-195	I-77	196+89.00	50.00	LT	663.38	658344.528'	2198854.859'
D-201	I-77	199+20.00	50.00	LT	660.52	658574.373'	2198832.524'

Preliminary Plans - Not for Reference Only

MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:55:44 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
MAW 03/14/26

PROJECT ID
105743

SHEET P.709 TOTAL P.1269

STORM STRUCTURE UNDERDRAIN INVERTS

STRUCT.	GRATE	STORM SEWER RUN	DIR. #1	U.D. RUN #1	U.D. INVERT #1	DIR. #2	U.D. RUN #2	U.D. INVERT #2	DIR. #3	U.D. RUN #3	U.D. INVERT #3
D-2	718.91	C	S	UD-12	715.81						
D-2A	717.25	B	S	UD-14	714.27						
D-3B	696.49	A	S	UD-2B	684.80						
D-3C	696.05	BT	S	UD-1	693.03						
D-4A	700.74	A	S	UD-6A	695.79						
D-4B	700.01	A	S	UD-4B	697.01						
D-4C	699.26	A	S	UD-1B	696.25						
D-4	697.74	D	S	UD-6	694.73	W	UD-5	693.56			
D-5	696.21	B	S	UD-4	693.17						
D-6	694.67	B	S	UD-13	691.67	E	UD-3	691.66			
D-8	696.40	D	S	UD-20	693.40	E	UD-9	693.23			
D-9	694.11	E	S	UD-18	691.09						
D-10	692.57	E	S	UD-21	689.58						
D-10A	693.08	BC	S	UD-15	690.09						
D-11	702.65	E	S	UD-14	699.45						
D-12	693.23	A	W	UD-11	689.74						
D-13	693.85	E	W	UD-7	690.57						
D-14	693.94	F	S	UD-26	690.91	N	UD-30	690.91	E	UD-19	691.59
D-15	692.72	G	S	UD-28	689.42	E	UD-17	689.42	N	UD-33	689.42
D-15C	692.43	G	S	UD-25	689.44						
D-16	694.10	F	N	UD-35	691.07						
D-17	692.65	G	N	UD-36	689.69						
D-17A	692.50	G	N	UD-34	689.45						
D-18	692.19	G	S	UD-38	689.08	E	UD-39	689.08	N	UD-40	689.08
D-19	692.35	G	S	UD-24	689.25						
D-21	692.33	H	N	UD-42	689.27						
D-21A	692.13	H	N	UD-41	689.08						
D-23	695.80	H	N	UD-44	692.78						
D-24	693.59	H	N	UD-43	690.54						
D-26	695.21	I	N	UD-45	692.15						
D-28	696.44	A	N	UD-32A	693.37						
D-31	695.91	A	S	UD-47	692.73						
D-31C	695.35	K	S	UD-46	692.34						
D-32	693.76	A	S	UD-53	690.72	E	UD-48	690.77			
D-32A	694.53	L	E	UD-49	691.38						
D-34	696.69	BW	W	UD-50	692.43	S	UD-51	693.65			
D-36	693.41	L	S	UD-52	690.40						
D-37	690.56	A	S	UD-59	688.44	E	UD-58	688.46			
D-37A	691.16	M	S	UD-57	688.14						
D-38	691.25	M	S	UD-56	688.25						
D-38A	692.18	M	W	UD-55	688.40						
D-40	687.24	N	S	UD-60	684.21						
D-41	684.55	A	E	UD-61	679.20	S	UD-68	681.36			
D-44	682.65	P	S	UD-65	679.62						
D-45	679.24	P	S	UD-69	676.20						
D-46	678.86	Q	S	UD-75	675.81	W	UD-76	675.91	N	UD-79	675.81
D-47	680.98	R	N	UD-82	677.98						
D-47A	689.82	S	N	UD-89	686.78						
D-47B	691.65	BF	N	UD-96	688.61						
D-48	675.05	S	S	UD-64A	672.05	W	UD-73	669.13			
D-49	679.70	T	N	UD-88	676.66						
D-50	679.39	T	S	UD-83	676.39	E	UD-85	676.38	N	UD-86	676.39
D-51	680.11	T	S	UD-74	677.09						

STORM STRUCTURE UNDERDRAIN INVERTS

STRUCT.	GRATE	STORM SEWER RUN	DIR. #1	U.D. RUN #1	U.D. INVERT #1	DIR. #2	U.D. RUN #2	U.D. INVERT #2	DIR. #3	U.D. RUN #3	U.D. INVERT #3
D-53	671.50	S	W	UD-72	669.00						
D-54	676.06	S	S	UD-84	673.06						
D-56	665.80	U	S	UD-90	662.77						
D-57	664.19	UU	S	UD-101	661.27	W	UD-92	661.16	N	UD-106	660.74
D-57A	664.54	UU	SE	UD-99	661.71	NE	UD-107	660.62			
D-58	665.29	V	S	UD-93	662.28	W	UD-94	662.36			
D-59A	663.35	A	S	UD-97	659.99						
D-60	663.48	W	E	UD-95	659.88	W	UD-98	660.61			
D-61	655.67	A	W	UD-112	652.28						
D-63	653.36	X	S	UD-103	650.32	W	UD-102	650.41			
D-65	649.57	Y	S	UD-118	646.53						
D-66	649.41	Z	S	UD-121	646.37	N	UD-127	646.37			
D-67	649.63	Z	N	UD-131	646.59						
D-68	650.88	Z	N	UD-130	647.84						
D-69	650.88	Y	S	UD-120	647.77						
D-70	650.89	Z	S	UD-122	647.85	E	UD-119	646.85	N	UD-129	647.85
D-71A	652.96	A	W	UD-138	649.57	N	UD-139	649.98			
D-72	651.50	AB	E	UD-146	651.73						
D-73	652.36	AD	N	UD-137	649.31						
D-74	652.19	AC	N	UD-134	649.18						
D-75	651.68	AC	W	UD-135	648.70	N	UD-136	648.66			
D-76	658.68	AE	N	UD-141	655.67						
D-76A	658.82	AE	N	UD-140	655.65						
D-77	665.36	AF	N	UD-147	662.37						
D-78	665.69	AF	N	UD-148	662.43						
D-79	684.21	AC	N	UD-152	681.17						
D-80	673.42	AC	N	UD-149	670.37						
D-81	654.89	AG	W	UD-143	651.91	N	UD-142	651.88			
D-81A	658.49	AC	N	UD-150	655.48	W	UD-151	655.47			
D-82	655.10	AG	N	UD-144	652.10						
D-84	663.61	AB	E	UD-144A	658.65						
D-84A	661.46	AC	W	UD-155	658.48	N	UD-157	658.41			
D-85	663.11	BG	N	UD-153	660.11						
D-86A	666.95	BL	N	UD-153A	663.93						
D-87	663.80	AC	N	UD-160	660.85						
D-89	676.52	AC	N	UD-176	673.62						
D-90	674.45	AC	N	UD-172	671.71						
D-91	670.54	AI	N	UD-171	667.49						
D-92	670.31	AI	S	UD-162	667.31	N	UD-163	667.31			
D-93	670.54	AI	S	UD-159	667.49						
D-94	670.88	AC	S	UD-158	667.87	W	UD-167	667.91	N	UD-164	667.88
D-94A	667.10	AC	N	UD-161	664.06						
D-95	671.86	AH	W	UD-169	668.93	N	UD-168	668.86			
D-95A	672.75	AH	N	UD-170	669.70						
D-97	681.03	AJ	E	UD-181	677.04						
D-98	681.08	AJ	W	UD-177	677.98						
D-100	681.28	AB	S	UD-183	678.23	N	UD-185	678.21			
D-101	681.78	AB	S	UD-178	678.84						
D-102	681.40	AB	N	UD-187	678.47						
D-103	681.81	AB	N	UD-190	678.77						
D-104	684.46	AB	E	UD-174	681.17	N	UD-175	681.35			
D-105	682.84	P	S	UD-67	679.75	W	UD-64	679.77			
D-106	679.50	P	S	UD-70	676.41						

STORM STRUCTURE UNDERDRAIN INVERTS

STRUCT.	GRATE	STORM SEWER RUN	DIR. #1	U.D. RUN #1	U.D. INVERT #1	DIR. #2	U.D. RUN #2	U.D. INVERT #2	DIR. #3	U.D. RUN #3	U.D. INVERT #3
D-107	678.97	P	S	UD-78	675.82						
D-110	721.14	BS	E	UD-10	718.15						
D-111	720.46	BR	W	UD-8	717.50						
D-150	680.58	AL	S	UD-197	677.56	W	UD-196	676.47			
D-151A	678.16	AL	W	UD-200	674.15						
D-152	677.65	AL	S	UD-199	674.63						
D-154	677.53	AL	S	UD-214	674.44	N	UD-217	674.44			
D-155	677.76	AL	N	UD-218	674.68						
D-157	677.55	AO	S	UD-195	674.54						
D-158	676.99	AO	S	UD-204	673.96						
D-159	676.74	AO	S	UD-206	673.69	N	UD-211	673.69			
D-160	676.84	AO	N	UD-215	673.81						
D-161	677.90	AL	N	UD-219	674.88						
D-162	676.46	AN	S	UD-203	673.26						
D-163	677.95	AK	S	UD-198	674.91	E	UD-194	675.04			
D-163A	679.46	AK	S	UD-191	676.42						
D-164	675.86	AK	S	UD-205	672.83						
D-165	675.61	AK	S	UD-207	672.57	E	UD-201	672.69	N	UD-208	672.58
D-166	675.88	AK	N	UD-213	672.86						
D-166A	676.19	AK	N	UD-216	673.17						
D-167	677.62	AK	E	UD-220	674.69	N	UD-228	674.62			
D-183	680.12	AR	S	UD-227	676.95	E	UD-228	677.45			
D-183A	677.08	AR	SE	UD-226	675.60						
D-184	681.07	AR	S	UD-299	678.06						
D-187A	678.00	AS	SE	UD-235	676.10						
D-187	676.72	AS	S	UD-232	673.52	W	UD-233	673.61			
D-188	675.90	AT	S	UD-230	673.06	W	UD-231	673.02			
D-189	669.22	AT	S	UD-241	666.58						
D-189A	673.09	AT	S	UD-236	670.05						
D-190	669.11	AT	S	UD-244	666.47	W	UD-243	666.51	N	UD-245	666.48
D-191	669.35	AT	N	UD-249	666.74						
D-193	668.16	AU	SE	UD-239	665.08						
D-193A	670.47	AQ	SE	UD-238	668.66						
D-194	667.23	AU	S	UD-240	664.19						
D-198	662.39	AT	W	UD-237	660.55						
D-201	660.52	AW	SE	UD-253	657.11						
D-202	660.20	AW	S	UD-254	657.18						
D-203	660.02	AX	S	UD-259	656.99	N	UD-262	656.99			
D-204	660.20	AZ	N	UD-267	657.18						
D-206	657.43	AT	W	UD-256	656.44						
D-208	658.74	AT	W	UD-274	658.09						
D-209	659.96	AT	SE	UD-271	657.52	W	UD-275	658.61			
D-210	660.06	AW	S	UD-252	657.05						
D-212	659.78	BP	S	UD-260	656.74	E	UD-263A	656.80	N	UD-264	656.40
D-212D	659.78	BP	N	UD-266	656.75						
D-212E	659.78	BP	S	UD-258	656.75						
D-214	659.98	AZ	N	UD-268	657.00						
D-215C	660.84	AQ	N	UD-269	657.85						
D-399	656.05	BJ	S	UD-284	653.12	E	UD-278	653.22			
D-401	651.35	BA	E	UD-283	648.31						
D-404	651.34	BA	S	UD-280	648.14	N	UD-289	648.10			
D-405	658.33	BI	S	UD-277	655.31						
EX. INLET	653.01	-	N	UD-289A	649.94						

For Reference Only
Preliminary Plans - Not For Construction

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DRAINAGE NOTES - UNDERDRAIN INVERT DATA

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
MAW 03/14/26

PROJECT ID
105743

SHEET P.710 TOTAL P.1269

LEGEND

D-	DRAINAGE ITEM (SEE DRAINAGE SUBSUMMARIES FOR ADDITIONAL DETAILS)
DA-	DRAINAGE ABANDONED OR REMOVED ITEM (SEE DRAINAGE SUBSUMMARIES FOR ADDITIONAL DETAILS)
DZ-	DRAINAGE ADJUSTED TO GRADE OR RECONSTRUCTED ITEM (SEE DRAINAGE SUBSUMMARIES FOR ADDITIONAL DETAILS)
E-	EROSION CONTROL ITEM
SZ-	SANITARY OR COMBINED ADJUSTED TO GRADE ITEM (SEE DRAINAGE SUBSUMMARIES FOR ADDITIONAL DETAILS)
S -	SANITARY ITEM
UD-	UNDERDRAIN ITEM
VBF-	VEGETATED BIOFILTER ITEM (SEE DRAINAGE NOTES SHEET FOR ADDITIONAL DETAIL AND NOTE)
VFS-	VEGETATED FILTER STRIP ITEM (SEE DRAINAGE NOTES SHEET FOR ADDITIONAL NOTE)
A	STORM SEWER RUN (SEE STORM SEWER PROFILES FOR ADDITIONAL DETAILS)
	EXISTING STORM SEWER
	PROP. CONTRUCTION LIMITS
	PROP. VEGETATED FILTER STRIP
	PROP. VEGETATED BIOFILTER
	PROP. MULTI-USE PATH
	PROP. DITCH EROSION PROTECTION MAT, TYPE B
	PROP. SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1
	PROP. ROCK CHANNEL PROTECTION W/ FILTER
	PROP. TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT
	PROP. RIPRAP, TYPE D
(TBA)	TO BE ABANDONED
(TBR)	TO BE REMOVED
(ABND)	ABANDONED

DIAMOND NOTES

A. INSTALL PIPE CONNECTION WITH CONCRETE MASONRY COLLAR PER ODOT SCD DM-1.1. THE CONTRACTOR SHALL FIELD INSPECT THE EXISTING PIPE MATERIAL AND INSTALL THE PROPOSED CONNECTION WITH THE SAME MATERIAL, SUBJECT TO THE APPROVAL OF THE PROJECT ENGINEER.

B. SEE TABLES ON SHEET P.709 FOR BURIED OR BOLTED MANHOLE LID DISTINCTION AND BOLTED COVER AS PER PLAN NOTE ON SHEET P.707

C. OUTLET UNDERDRAIN AT THE EXISTING STRUCTURE

D. SEGMENT OF EXISTING STORM TO BE REMOVED

E. HALF HEIGHT HEADWALL PER ODOT SCD HW-2.1 OR HW-2.2 AND RIPRAP, TYPE D, PER ODOT SCD DM-1.1

F. PRECAST CONCRETE OUTLET AND TIED CONCRETE MAT WITH TYPE 1 UNDERLAYMENT, PER ODOT SCD DM-1.1

G. FOR ADDITIONAL STRUCTURAL DETAILS AT THE MANHOLE AND CHAMBER CONNECTION TO THE BURKE BROOK CULVERT, SEE SHEETS P.712 TO P.715

H. CONTRACTOR TO FIELD LOCATE THE EXISTING UNDERDRAIN AND CONNECT TO THE D-71B CATCH BASIN. THE GRATE ELEVATION OF D-71B SHALL BE APPROX. 2.5" ABOVE GRADED GROUND ELEVATION

I. CONTRACTOR TO REMOVE THE EXISTING FOOTER TO THE LIMITS WHICH AVOID CONFLICT WITH THE PROPOSED STORM

J. PROPOSED CONCRETE CRADLE PER DETAIL ON SHEET P.707. VERTICAL CLEARANCE IS 10.5" AS SHOWN IN DRAINAGE PROFILE AB

K. FURNISH BICYCLE SAFE GRATES

L. THE PROPOSED 15" STORM SHALL UTILIZE THE EXISTING BLIND CONNECTION INTO THE 60" COMBINED SEWER

M. CORE INTO THE EXISTING STRUCTURE. COST INCLUDED IN UNIT PRICE BID OF NEW CONDUIT

N. D-399 WAS UPSIZED TO ALLOW ACCESS TO THE STEPS AND LID WITHOUT REPLACING MULTIPLE LEGS OF RECENTLY CONSTRUCTED PIPES. FOR LONG-TERM ACCESSIBILITY REASONS, THE CONTRACTOR MUST INSTALL A 108" BASE INSIDE DIAMETER MANHOLE NO. 3 AT THIS LOCATION AND MUST ORIENT THE ECCENTRIC TRANSITION, RISERS, GRADE RINGS AND FRAME AND COVER SUCH THAT ALL OF THE MANHOLE LID AND FRAME IS PLACED BEHIND THE PROPOSED TYPE D CONCRETE BARRIER.

O. CONNECT PROPOSED UNDERDRAIN TO THE EXISTING UNDERDRAIN

P. INSTALL PAVED GUTTER TYPE 1-2, PER ODOT SCD DM-2.1 BETWEEN THE PROPOSED BARRIER AND THE EXISTING RETAINING WALL

Q. DRAINAGE STRUCTURE WILL NEED TO ACCOMMODATE THE SLOTTED DRAIN OUTLET

R. CONDUIT BORED OR JACKED. COST INCLUDED IN UNIT PRICE BID OF NEW CONDUIT

S. ANY PORTION OF THE ABANDONED WATER LINE EXPOSED FROM CUT SHALL BE REMOVED

T. CONTRACTOR SHALL CAST-IN-PLACE INLET AND CONNECT EX. 12" STORM WITH EXTREME CAUTION AS TO NOT DISTURB THE EX. RETAINING WALL. SEE ITEM 611, INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 1 NOTE

U. THE GRATE ELEVATION OF THE D-71D MANHOLE SHALL BE APPROX. 2.25' ABOVE THE GRADED GROUND ELEVATION

V. THE PIPES AND OUTLET FOR THE DRAINAGE OF THE RETAINING WALLS ARE DETAILED AND QUANTIFIED IN THE RETAINING WALLS SHEETS

W. THE GRATE ELEVATION OF THE D-198 MANHOLE SHALL BE APPROX. 0.5' ABOVE THE GRADED GROUND ELEVATION

X. CONTRACTOR SHALL TAKE EXTREME CARE TO NOT DISTURB EXISTING DRAINAGE PIPE IN THIS LOCATION, AS THE STORM PIPE IS WITHIN THE PROXIMITY OF THE PAVEMENT SUBGRADE. PLEASE USE EXTREME CARE WITH ALL VIBRATORY ROLLERS AND EQUIPMENT TO NOT DAMAGE EXISTING CONDUITS

Y. PRIOR TO STORM SEWER INSTALLATION, CONTRACTOR SHALL REMOVE AND RELOCATE ALL EXISTING SANITARY AND WATER WORK THAT CONFLICTS WITH THE PROPOSED DRAINAGE AT THIS STORM SEWER LOCATION

Z. NOTE THAT THE INLET WINDOW ELEVATION IS LOWER THAN GRATE SIDE ELEVATION WHICH DIFFERS FROM SCD I-3C, 3C1. THE GRATE IS REQUIRED ON THE HIGHER SIDE FOR LARGER DRAINAGE AREA CAPTURE PURPOSES

AA. CONTRACTOR SHALL CAST-IN-PLACE THE RETAINING WALL AND FORM AROUND THE INLET. SEE ITEM 611, INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 2 NOTE

Preliminary Plans - For Reference Only

DRAINAGE PLANS - LEGEND AND DIAMOND NOTES KEY

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:55:50 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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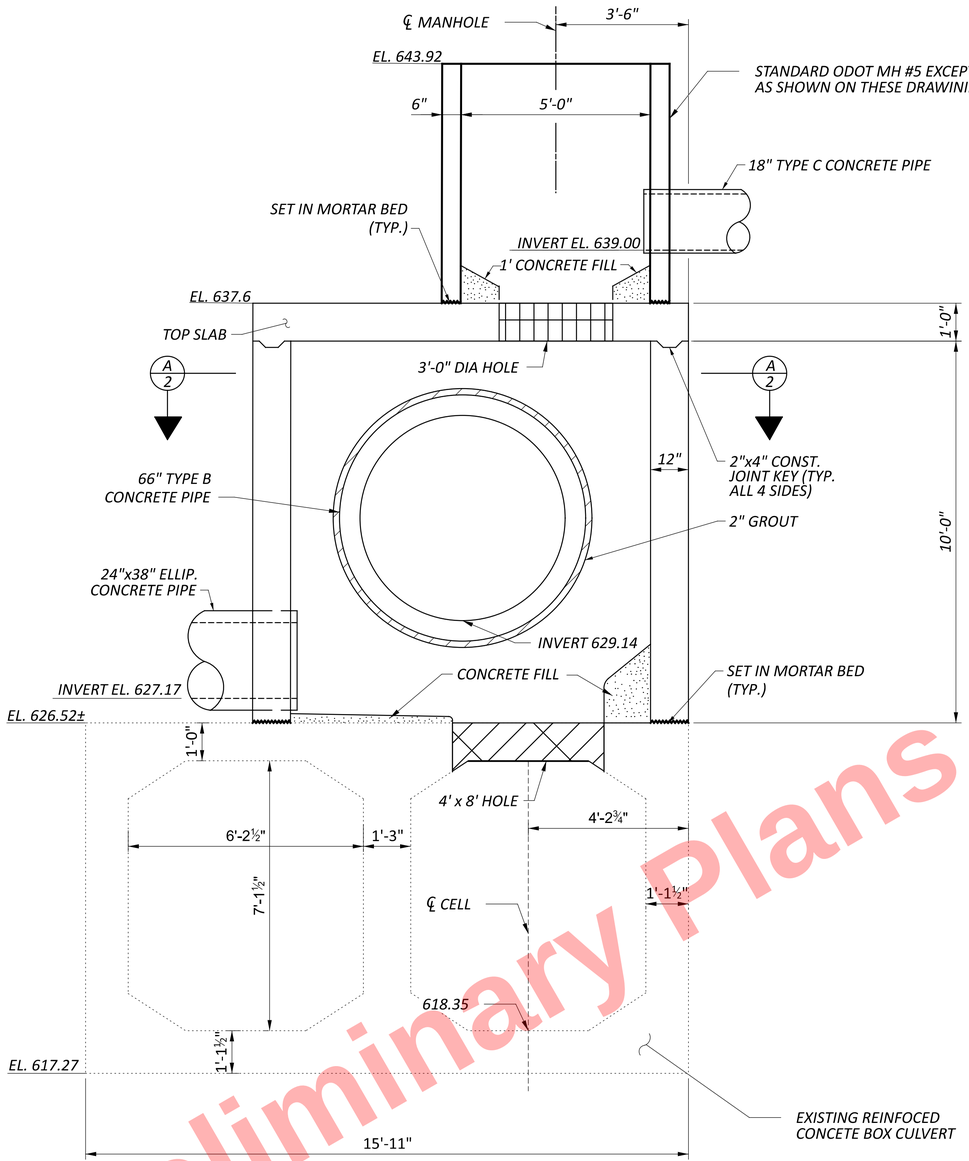
DESIGN AGENCY
AECOM

DESIGNER
SMS

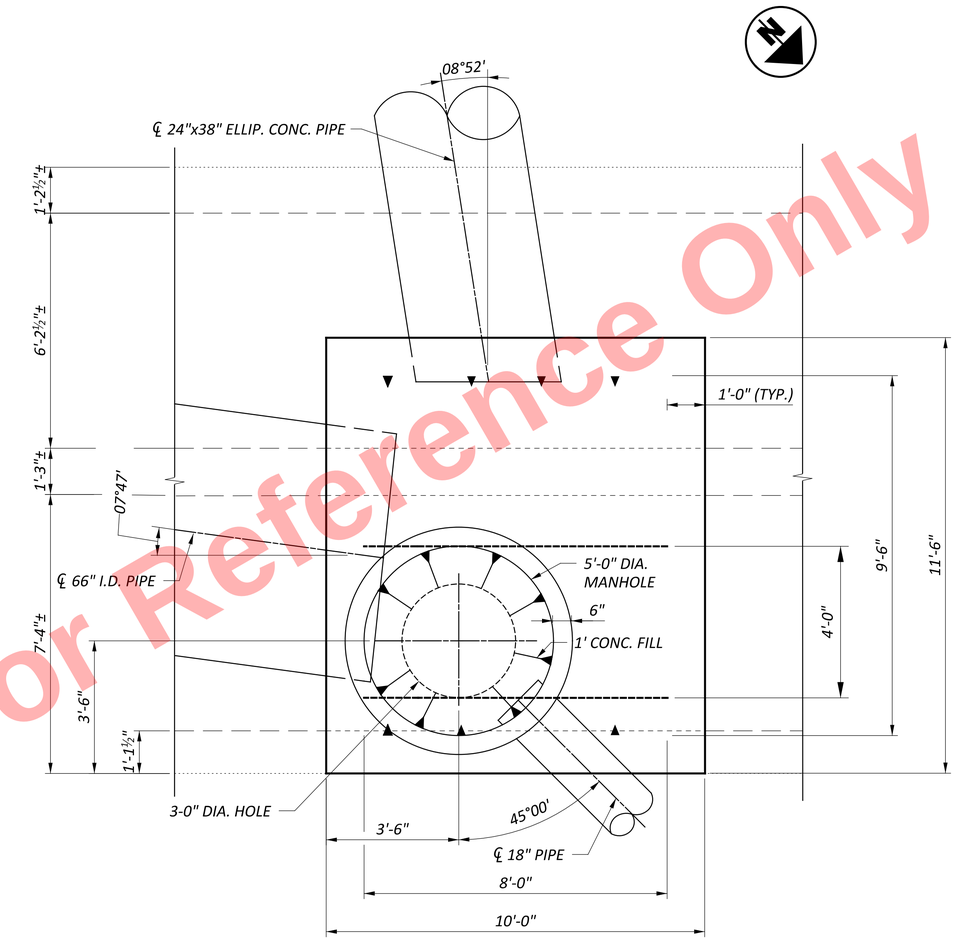
REVIEWER
MAW 03/14/26

PROJECT ID
105743

SHEET P.711 | TOTAL P.1269



ELEVATION VIEW



PLAN VIEW

LEGEND

- CAST-IN-PLACE OPENING
- STRUTCURAL REMOVAL IN EXISITNG CULVERT

NOTES

1. REINFORCING ASTM 615 GRADE 60. EPOXY COATED PER ODOT CMS SECTION 709.
2. PROVIDE ODOT CLASS QC1 CONCRETE PER CMS 499.03
3. APPROXIMATE MANHOLE LOCATION 134+96 AND 95.5 FT LEFT ℄ WILLOW FREEWAY STATIONING.
4. VERIFY THE ANGLE OF INTERSETION BETWEEN THE PIPE TO THE JUNCTION CHAMBER OR MANHOLE. PROVIDE A HOLE 2" LARGER THAN THE O.D. OF THE PIPE. PROVIDE NON-SHRINK MORTAR TO FILL VOID PER C&MS 611. NO ADDITIONAL PAYMENT WILL BE MADE FOR MORTAR.
5. MAINTAIN 3" CLEAR BETWEEN ADDITIONAL BARS UNLESS NOTED OTHERWISE.
6. MINIMUM CONCRETE REINFORCEMENT LAP SPLICE LENGTHS ARE AS FOLLOWS UNLESS NOTED OTHERWISE:

   NO. 6 3'-7"

7. FOR REINFORCING LIST, SEE SHEET 4 | 4.
8. MAINTAIN A 2" CLEAR EVERYWHERE UNLESS NOTED OTHERWISE.
9. BASIS OF PAYMENT: ALL LABOR, EQUIPMENT AND INCIDENTALS REQUIRED TO CONSTRUCT THE CAST-IN-PLACE-SECTIONS AND MANHOLE NO. 5 SHALL BE INCLUDED WITH ITEM 611 - MANHOLE, NO. 5, AS PER PLAN.

Preliminary Plans - For Reference Only

DRAINAGE DETAILS
MANHOLE NO. 5, AS PER PLAN

DESIGN AGENCY
AECOM

DESIGNER HER
REVIEWER JTH 05/01/26
PROJECT ID 105743
SUBSET 1 TOTAL 4
SHEET P.712 TOTAL P.1269

CUY-77-11.41 - PART 1

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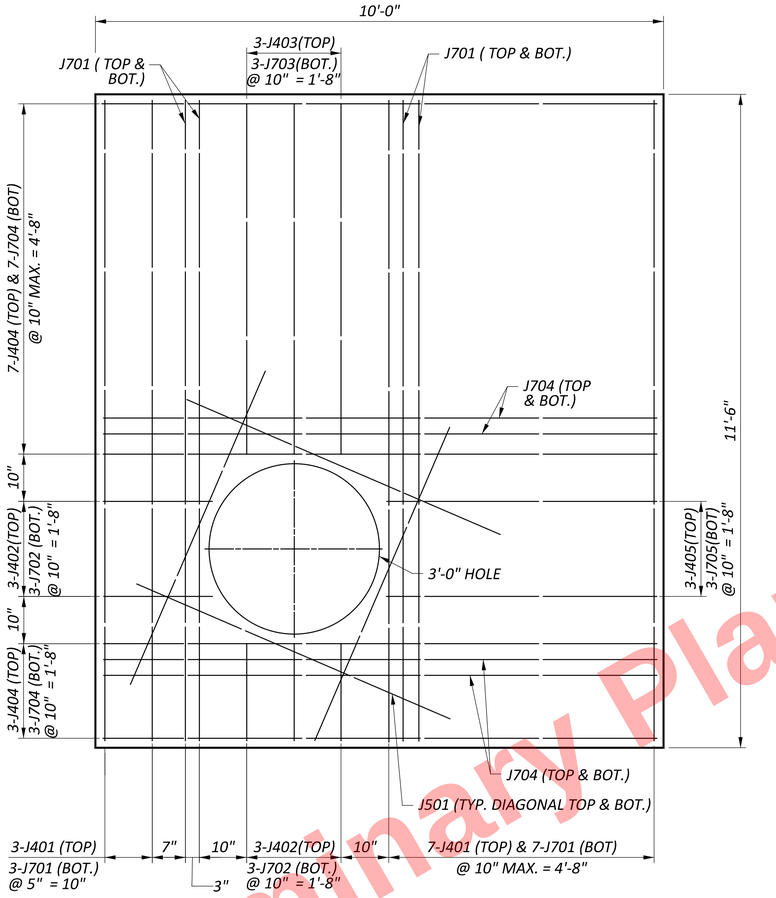
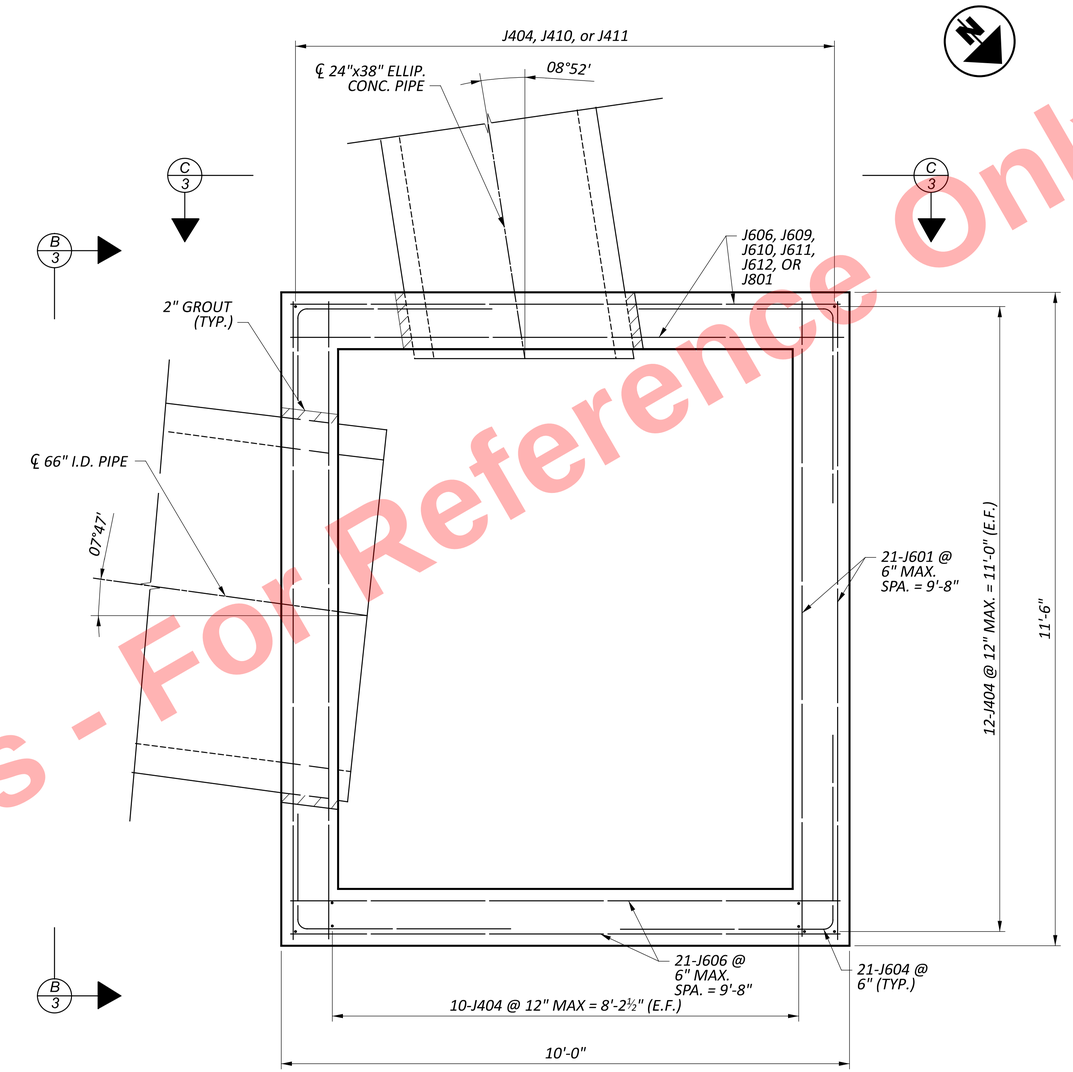
Preliminary Plans - For Reference Only



TOP SLAB REINFOCEMENT DETAIL



A/1 SECTION

NOTES:

1. FOR ADDITIONAL NOTES, SEE SHEET 1 | 4 .

DRAINAGE DETAILS
MANHOLE NO. 5, AS PER PLAN

DESIGN AGENCY
AECOM

DESIGNER HER
REVIEWER JTH 05/01/26
PROJECT ID 105743
SUBSET 2 | TOTAL 4
SHEET P.713 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: SHEET 2 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:55:56 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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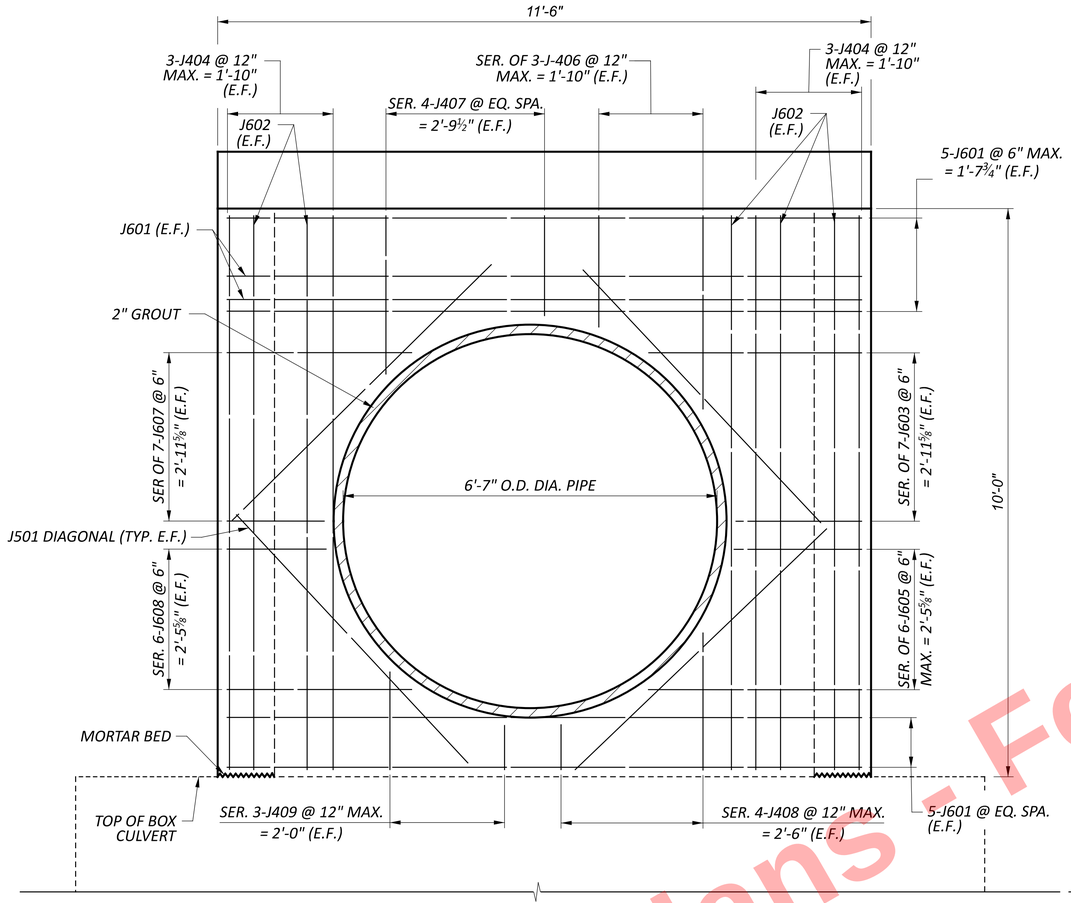
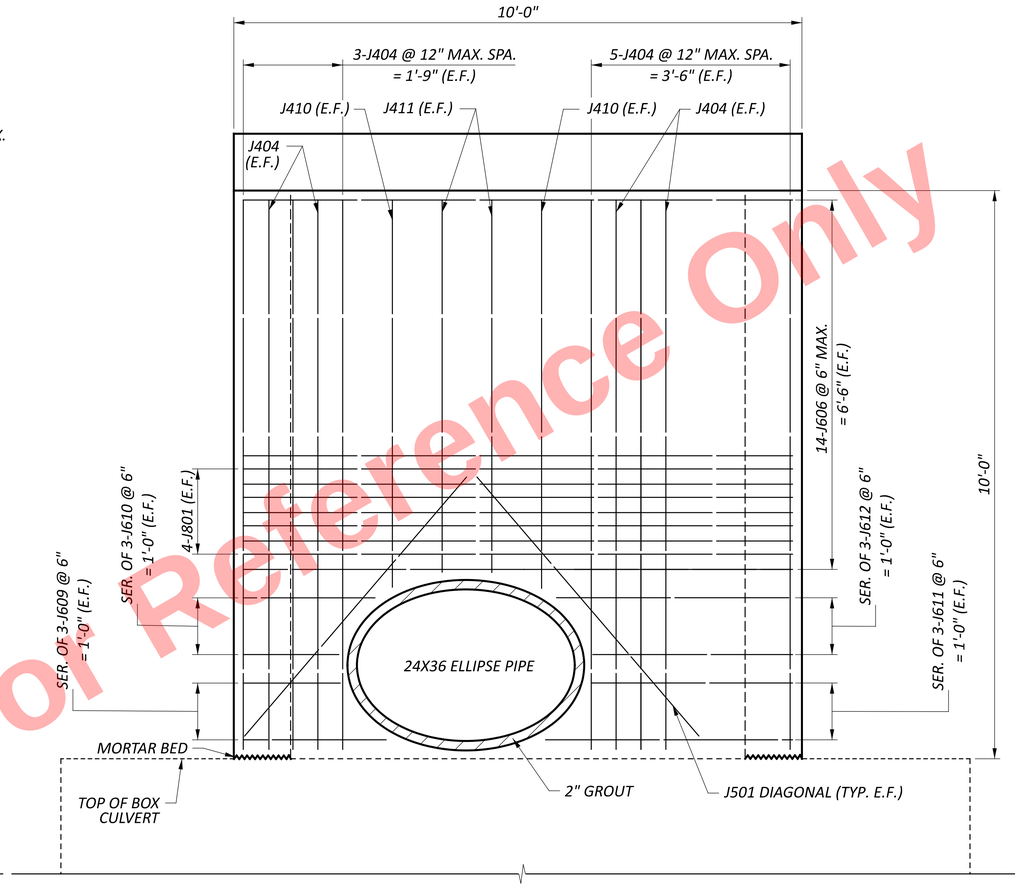


B/2 ELEVATION
CORNER BARS NOT SHOWN FOR CLARITY*



C/2 ELEVATION
CORNER BARS NOT SHOWN FOR CLARITY*

LEGEND

**FIELD CUT CORNER BARS AS NEEDED FOR FIT UP WITH PIPE. MAINTAIN 2" CLEAR FROM GROUND.*

NOTES:

1. FOR ADDITIONAL NOTES, SEE SHEET 1 | 4 .

Preliminary Plans - For Reference Only

DRAINAGE DETAILS
MANHOLE NO. 5, AS PER PLAN

DESIGN AGENCY
AECOM

DESIGNER	HER
REVIEWER	JTH 05/01/26
PROJECT ID	105743
SUBSET / TOTAL	3 / 4
SHEET / TOTAL	P.714 / P.1269

CUY-77-11.41 - PART 1

MODEL: SHEET 3 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:55:57 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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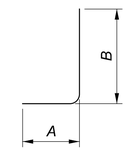
MARK	MAT'RL	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
CAST-IN-PLACE SECTIONS												
J401	ECSR	10	11'-2"	75	STR							
J402	ECSR	6	1'-8"	7	STR							
J403	ECSR	3	6'-3"	13	STR							
J404	ECSR	90	9'-8"	581	STR							
J405	ECSR	3	4'-9"	10	STR							
J406	ECSR	6	1'-11" TO 3'-5"	9	STR							$8\frac{3}{4}$"
J407	ECSR	8	1'-9" TO 2'-9"	12	STR							4"
J408	ECSR	8	0'-9" TO 2'-5"	9	STR							$6\frac{1}{2}$"
J409	ECSR	6	0'-9" TO 1'-9"	5	STR							$5\frac{3}{4}$"
J410	ECSR	4	6'-10"	18	STR							
J411	ECSR	4	6'-6"	17	STR							
J501	ECSR	20	6'-0"	125	STR							
J601	ECSR	66	11'-2"	1,107	STR							
J602	ECSR	10	9'-8"	145	STR							
J603	ECSR	14	2'-3" TO 3'-9"	63	STR							3"
J604	ECSR	84	7'-0"	883	1	3'-7"	3'-7"					
J605	ECSR	12	2'-3" TO 3'-9"	54	STR							3"
J606	ECSR	70	9'-8"	203	STR							
J607	ECSR	14	1'-9" TO 3'-3"	53	STR							3"
J608	ECSR	12	1'-9" TO 3'-3"	45	STR							$3\frac{1}{2}$"
J609	ECSR	6	1'-8" TO 2'-6"	19	STR							$4\frac{3}{4}$"
J610	ECSR	6	1'-8" TO 2'-4"	24	STR							$3\frac{3}{4}$"
J611	ECSR	6	3'-6" TO 4'-4"	35	STR							$4\frac{3}{4}$"
J612	ECSR	6	1'-9" TO 3'-3"	23	STR							9"
J701	ECSR	18	11'-2"	411	STR							
J702	ECSR	6	1'-8"	21	STR							
J703	ECSR	3	6'-3"	38	STR							
J704	ECSR	18	9'-8"	356	STR							
J705	ECSR	3	4'-9"	29	STR							
J801	ECSR	8	9'-8"	207	STR							
			SUB-TOTAL	4,597								

Preliminary Plans - For Reference Only

BENDING DIAGRAMS



TYPE-1

NOTES

1. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED.
2. ALL REINFORCING IS TO BE EPOXY COATED.
3. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER.

EXAMPLES: J501
- NO. 5 SIZE BAR
- JUNCTION CHAMBER

DRAINAGE DETAILS
MANHOLE NO. 5, AS PER PLAN

DESIGN AGENCY
AECOM

DESIGNER HER
REVIEWER JTH 05/01/26
PROJECT ID 105743
SUBSET 4 TOTAL 4
SHEET P.715 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: SHEET 4 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:55:57 PM PLTDRV: OHDOT_PDF.pltdg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DD001.dgn

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION						ALIGNMENT	202 PIPE REMOVED, 24" AND UNDER FT	202 PIPE REMOVED, OVER 24" FT	202 MANHOLE REMOVED EACH	202 CATCH BASIN REMOVED EACH	202 INLET REMOVED EACH	202 INLET ABANDONED, AS PER PLAN EACH	202 MANHOLE ABANDONED EACH	SPECIAL FILL AND PLUG EXISTING CONDUIT, 24" AND UNDER FT	SPECIAL FILL AND PLUG EXISTING CONDUIT, 27" TO 48" FT	SPECIAL	SPECIAL PIPE CLEANOUT, 24" AND UNDER FT	SPECIAL PIPE CLEANOUT, 27" TO 48" FT	SPECIAL	202 REMOVAL MISC.: MANUFACTURED SYSTEM, TYPE 1 REMOVED EACH	202 REMOVAL MISC.: TRENCH DRAIN REMOVED FT
DA-3A		P.750	72+98.14	RT	TO	75+34.90	RT	CLP_I077	36											201				
DA-1		P.750	75+01.12	RT	TO	75+22.80	RT	CLP_I077	43															
DA-2		P.750	75+22.80	RT	TO	75+34.90	RT	CLP_I077					1				50							
DA-3		P.750-P.751	75+34.90	RT	TO	78+99.93	RT	CLP_I077						1				367						
DA-4		P.750	75+34.90	LT	TO	75+57.22	RT	CLP_I077					1				60							
DA-5		P.750	75+57.22	LT	TO	76+03.65	LT	CLP_I077	5											75				
DA-6A		P.750-P.751	76+66.82	RT	TO	79+01.05	RT	CLP_I077	238			1												
DA-6		P.750-P.751	76+87.83	LT	TO	78+98.52	LT	CLP_I077	210			1												
DA-12A		P.751	78+99.87	LT	TO	78+99.93	RT	CLP_I077					1				56							
DA-13		P.751	78+99.93	RT	TO	81+50.37	RT	CLP_I077		20				1				231						
DA-13A		P.751	79+01.05	RT	TO	81+34.93	RT	CLP_I077	237			1												
DA-21		P.751	81+34.93	RT	TO	81+53.36	RT	CLP_I077	10				1				30							
DA-23A		P.751-P.752	81+43.27	RT	TO	82+14.69	RT	CLP_I077																74
DA-22		P.751-P.752	81+50.37	RT	TO	82+74.70	RT	CLP_I077		125				1										
DA-23		P.751-P.752	81+53.36	RT	TO	82+26.61	RT	CLP_I077					1				76							
DA-24		P.751-P.752	82+00.21	LT	TO	82+50.35	LT	CLP_I077					1				50							
DA-27		P.752	82+26.61	RT	TO	82+27.31	RT	CLP_I077	9				1											
DA-28		P.752	82+26.61	RT	TO	82+74.70	RT	CLP_I077					1				89							
DA-29		P.752	82+26.61	RT	TO	83+02.50	RT	CLP_I077					1				76							
DA-32		P.752	82+49.29	RT	TO	82+97.71	RT	CLP_I077				1						90						
DA-34		P.752	82+50.35	LT	TO	82+75.02	LT	CLP_I077				1					25							
DA-35		P.752	82+74.70	RT	TO	83+95.50	RT	CLP_I077		10				1				111						
DA-36		P.752	82+74.70	RT	TO	82+75.02	LT	CLP_I077					1				54							
DA-37		P.752	82+75.02	LT	TO	83+51.48	LT	CLP_I077					1				74							
DA-38		P.752	82+97.71	RT	TO	84+82.07	RT	CLP_I077							1			193						
DA-38A		P.752	83+51.48	LT	TO	84+28.08	LT	CLP_I077					1				77							
DA-39		P.752	83+95.50	RT	TO	86+24.46	RT	CLP_I077		10				1				220						
DA-40		P.752	84+05.01	LT	TO	84+82.98	LT	CLP_I077	10				1				66							
DA-41		P.752	84+28.08	LT	TO	84+64.14	LT	CLP_I077					1				38							
DA-42		P.752	84+64.14	LT	TO	84+82.98	LT	CLP_I077					1				32							
DA-44		P.752	84+82.98	LT	TO	85+74.21	LT	CLP_I077					1				92							
DA-43		P.752	85+77.30	LT	TO	86+28.32	LT	CLP_I077	50															
DA-45		P.752-P.753	86+24.46	RT	TO	88+20.93	LT	CLP_I077		20				1				177						
DA-46		P.753	88+20.93	LT	TO	89+98.91	LT	CLP_I077		10				1				168						
DA-47		P.753	88+97.65	LT	TO	89+11.97	LT	CLP_I077	14											139				
DA-48		P.753	89+11.86	LT	TO	89+11.97	LT	CLP_I077					1				45							
DA-51		P.753	89+80.60	LT	TO	90+90.38	LT	CLP_I077	162			1												
DA-50		P.753	89+98.44	RT	TO	89+98.91	LT	CLP_I077	68			1												
DA-49		P.753	89+98.44	RT	TO	89+99.30	RT	CLP_I077	13											21				
DA-52		P.753-P.754	89+98.91	LT	TO	93+23.82	RT	CLP_I077				1						325						
DA-53		P.754	93+20.87	LT	TO	93+23.82	RT	CLP_I077					1				48							
DA-54		P.754	93+21.22	RT	TO	93+23.82	RT	CLP_I077					1				52							
DA-55		P.754	93+21.22	RT	TO	93+24.31	RT	CLP_I077	9				1											
DA-56		P.754	93+23.82	RT	TO	95+23.25	LT	CLP_I077		10				1				190						
DA-57		P.754	93+99.17	RT	TO	94+22.07	RT	CLP_I077					1				25							
DA-58		P.754	94+22.07	RT	TO	95+23.39	RT	CLP_I077				1					102							
DA-59		P.754	95+16.82	RT	TO	95+17.78	RT	CLP_I077		27											42			
DA-60		P.754	95+16.82	RT	TO	95+23.39	RT	CLP_I077					1					46						
DA-61		P.754	95+23.25	LT	TO	95+23.39	RT	CLP_I077				1						27						
DA-62		P.754	95+23.25	LT	TO	95+55.13	LT	CLP_I077				1					55							
TOTALS CARRIED TO P.722										1114	232	11	22	8		1	1272	2145		436	42			74

Preliminary Plans - For Reference Only

DRAINAGE REMOVAL SUBSUMMARY

CUY-77-11.41 - PART 1

MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:02 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS006.dgn

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.716 TOTAL P.1269

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	202 PIPE REMOVED, 24" AND UNDER FT	202 PIPE REMOVED, OVER 24" FT	202 MANHOLE REMOVED EACH	202 CATCH BASIN REMOVED EACH	202 INLET REMOVED EACH	202 INLET ABANDONED, AS PER PLAN EACH	202 MANHOLE ABANDONED EACH	SPECIAL FILL AND PLUG EXISTING CONDUIT, 24" AND UNDER FT	SPECIAL FILL AND PLUG EXISTING CONDUIT, 27" TO 48" FT	SPECIAL PIPE CLEANOUT, 24" AND UNDER FT	SPECIAL PIPE CLEANOUT, 27" TO 48" FT	202 REMOVAL MISC.: MANUFACTURED SYSTEM, TYPE 1 REMOVED EACH	202 REMOVAL MISC.: TRENCH DRAIN REMOVED FT
DA-63		P.754-P.755	95+23.25	LT	TO	97+98.25	RT	CLP_I077		10	1						265				
DA-63A		P.754	95+23.39	RT	TO	95+49.18	RT	CLP_I077			1					29					
DA-63B		P.754	95+47.93	RT	TO	95+49.18	RT	CLP_I077	53			1									
DA-63C		P.754	95+49.18	RT	TO	96+12.81	RT	CLP_I077	64												
DA-63D		P.754	95+55.12	LT	TO	95+55.13	LT	CLP_I077	6									14			
DA-63E		P.754-P.755	96+12.81	RT	TO	96+99.49	RT	CLP_I077				1				99					
DA-64		P.755	96+99.49	RT	TO	99+25.10	RT	CLP_I077	226		1										
DA-64A		P.755	97+98.25	RT	TO	99+98.40	RT	CLP_I077					1				201				
DA-65		P.755	99+24.13	RT	TO	99+25.10	RT	CLP_I077	11			1									
DA-66		P.755	99+25.10	RT	TO	99+38.74	RT	CLP_I077	17		1										
DA-66A		P.755	99+35.24	RT	TO	101+50.68	RT	CLP_I077	216												
DA-67		P.755	99+38.74	RT	TO	99+98.40	RT	CLP_I077	81			1									
DA-68		P.755	99+84.89	LT	TO	99+98.40	RT	CLP_I077				1				59					
DA-69		P.755-P.756	99+98.40	RT	TO	102+00.62	RT	CLP_I077		10			1				193				
DA-70		P.756	102+00.62	RT	TO	103+23.97	RT	CLP_I077		10			1				114				
DA-71		P.756	103+23.97	RT	TO	105+23.94	RT	CLP_I077		20			1				180				
DA-72		P.756	103+50.14	RT	TO	105+48.80	RT	CLP_I077	197												
DA-73		P.756	105+18.82	LT	TO	105+23.94	RT	CLP_I077	10			1				62					
DA-74		P.756-P.757	105+23.94	RT	TO	108+25.33	RT	CLP_I077					1				302				
DA-75		P.756-P.757	105+48.80	RT	TO	107+32.35	RT	CLP_I077	40							141					
DA-76		P.756-P.757	106+25.07	RT	TO	107+20.34	RT	CLP_I077	97			1									
DA-77		P.757	107+20.34	RT	TO	107+97.07	RT	CLP_I077				1				76					
DA-78		P.757	107+32.35	RT	TO	108+19.74	RT	CLP_I077	20												
DA-79		P.757	107+32.35	RT	TO	108+24.31	RT	CLP_I077	92		1										
DA-80		P.757	107+44.62	LT	TO	108+20.10	LT	CLP_I077	78			1									
DA-81		P.757	107+97.07	RT	TO	109+02.81	RT	CLP_I077	119			1									
DA-82		P.757	108+20.10	LT	TO	108+24.17	LT	CLP_I077				1				37					
DA-83		P.757	108+20.10	LT	TO	108+93.91	LT	CLP_I077	75			1									
DA-84		P.757	108+24.17	LT	TO	108+25.33	RT	CLP_I077			1					45					
DA-85		P.757	108+24.31	RT	TO	108+25.33	RT	CLP_I077		10			1				276				
DA-86		P.757	108+24.31	RT	TO	109+02.81	RT	CLP_I077			1					78					
DA-88		P.757	108+93.91	LT	TO	109+49.63	LT	CLP_I077	61			1									
DA-89		P.757-P.758	111+10.79	RT	TO	114+50.13	RT	CLP_I077					1				340				
DA-91		P.757	111+81.63	LT	TO	111+83.27	LT	CLP_I077	10			1									
DA-92		P.757	111+81.63	LT	TO	111+94.67	RT	CLP_I077				1				45					
DA-93		P.757	111+94.67	RT	TO	111+95.85	RT	CLP_I077				1				51					
DA-94		P.758	112+97.42	LT	TO	114+01.18	RT	CLP_I077								157					
DA-94A		P.758	113+37.45	LT				CLP_I077			1										
DA-94B		P.758	113+37.45	LT	TO	114+00.00	LT	CLP_I077				1				64					
DA-95		P.758-P.759	114+50.13	RT	TO	117+23.04	RT	CLP_I077					1				273				
DA-96		P.758	115+08.20	RT	TO	115+17.64	RT	CLP_I077	44			1									
DA-97		P.758-P.759	115+28.26	LT	TO	117+05.77	LT	CLP_I077				1				187					
DA-98		P.759	117+05.77	LT	TO	117+23.46	LT	CLP_I077				1				91					
DA-99		P.759	117+23.04	RT	TO	120+00.47	RT	CLP_I077					1				278				
DA-100		P.759	117+88.64	RT	TO	117+94.25	RT	CLP_I077				1				36					
DA-101		P.759	117+94.25	RT	TO	117+97.92	RT	CLP_I077				1				17					
DA-102		P.759	117+97.92	RT	TO	119+94.64	RT	CLP_I077	194			1									
DA-102A		P.759	118+00.33	RT	TO	119+87.61	RT	CLP_I077													186
DA-103		P.759	119+60.70	LT	TO	119+71.88	LT	CLP_I077								40					
DA-104		P.759	119+94.64	RT	TO	122+02.62	RT	CLP_I077	204			1									
TOTALS CARRIED TO P.722									1915	60	8	24	9			1314	2422	14			186

Preliminary Plans - For Reference Only

MODEL: Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:03 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS006.dgn
sydney.stefanek@trcext.com

CUY-77-11.41 - PART 1

DRAINAGE REMOVAL SUBSUMMARY

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.717 TOTAL P.1269

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	202 PIPE REMOVED, 24" AND UNDER FT	202 PIPE REMOVED, OVER 24" FT	202 MANHOLE REMOVED EACH	202 CATCH BASIN REMOVED EACH	202 INLET REMOVED EACH	202 INLET ABANDONED, AS PER PLAN EACH	202 MANHOLE ABANDONED EACH	SPECIAL FILL AND PLUG EXISTING CONDUIT, 24" AND UNDER FT	SPECIAL FILL AND PLUG EXISTING CONDUIT, 27" TO 48" FT	SPECIAL	SPECIAL PIPE CLEANOUT, 24" AND UNDER FT	SPECIAL PIPE CLEANOUT, 27" TO 48" FT	SPECIAL	202 REMOVAL MISC.: MANUFACTURED SYSTEM, TYPE 1 REMOVED EACH	202 REMOVAL MISC.: TRENCH DRAIN REMOVED FT
DA-105		P.759	119+94.64	RT	TO	119+96.81	RT	CLP_I077			1					40							
DA-106		P.759-P.760	120+00.47	RT	TO	122+25.43	RT	CLP_I077					1				225						
DA-107		P.759	120+22.11	LT	TO	120+22.31	LT	CLP_I077				1				11							
DA-108		P.759	120+22.31	LT	TO	120+29.98	LT	CLP_I077	10			1				48							
DA-109		P.759	120+29.98	LT	TO	120+36.92	LT	CLP_I077			1					20							
DA-110		P.760	122+02.20	RT	TO	122+02.62	RT	CLP_I077				1				18							
DA-111		P.760	122+02.62	RT	TO	124+01.59	RT	CLP_I077	196			1											
DA-112		P.760	122+25.43	RT	TO	124+51.41	RT	CLP_I077					1				226						
DA-113		P.760	122+34.15	LT	TO	122+49.28	LT	CLP_I077	10			1				61							
DA-114		P.760	124+01.59	RT	TO	125+01.66	RT	CLP_I077	100			1											
DA-115		P.760	124+51.41	RT	TO	126+53.21	RT	CLP_I077					1				202						
DA-116		P.760	125+01.66	RT	TO	125+46.92	RT	CLP_I077				1				75							
DA-117		P.760	125+46.92	RT	TO	125+84.52	RT	CLP_I077			1					40							
DA-118		P.760-P.761	126+53.21	RT	TO	128+49.88	RT	CLP_I077					1				197						
DA-120		P.761	128+49.88	RT	TO	130+30.24	RT	CLP_I077					1				181						
DA-121		P.761	129+57.29	RT	TO	129+57.53	RT	CLP_I077								69							
DA-122		P.761	130+30.24	RT	TO	131+50.15	RT	CLP_I077					1				120						
DA-123		P.761	130+35.26	RT	TO	131+29.01	RT	CLP_I077				1				94							
DA-124		P.761	131+29.01	RT	TO	131+77.54	RT	CLP_I077				1				49							
DA-125		P.761-P.762	131+50.15	RT	TO	132+02.29	RT	CLP_I077					1				53						
DA-126		P.761-P.762	131+77.54	RT	TO	133+17.14	RT	CLP_I077				1				141							
DA-127		P.762	131+97.51	LT	TO	133+19.64	LT	CLP_I077	51			1				70							
DA-128		P.762	132+02.29	RT	TO	133+13.93	RT	CLP_I077					1				112						
DA-129		P.762	132+42.74	RT	TO	133+27.65	RT	CLP_I077	86			1											
DA-130		P.762	133+13.93	RT				CLP_I077						1									
DA-131		P.762	133+13.93	RT	TO	133+42.72	RT	CLP_I077			1						30						
DA-133		P.762	133+16.81	RT	TO	133+17.14	RT	CLP_I077			1					4							
DA-134		P.762	133+16.81	RT	TO	133+22.88	RT	CLP_I077			1					36							
DA-135		P.762	133+17.14	RT	TO	135+41.61	RT	CLP_I077	15			1				210							
DA-132		P.762	133+19.64	LT	TO	133+42.72	RT	CLP_I077				1				59							
DA-136		P.762	133+22.88	RT	TO	133+42.72	RT	CLP_I077				1				54							
DA-137		P.762	133+22.88	RT	TO	133+27.65	RT	CLP_I077	11			1											
DA-138		P.762	133+42.72	RT	TO	134+20.63	RT	CLP_I077					1			78							
DA-140		P.762	134+20.63	RT	TO	135+41.26	RT	CLP_I077				1				134							
DA-146		P.762	134+20.63	RT	TO	136+21.53	RT	CLP_I077	10				1			191							
DA-139		P.762	134+23.14	RT	TO	134+23.90	RT	CLP_I077	11														
DA-143		P.762	134+46.34	LT	TO	134+84.79	LT	CLP_I077	84														
DA-141		P.762	134+52.76	LT	TO	134+54.77	LT	CLP_I077	22										102				
DA-142		P.762	134+54.77	LT	TO	134+84.79	LT	CLP_I077		73	1												
DA-144		P.762	134+77.95	LT	TO	135+18.86	LT	CLP_I077	42			1											
DA-145		P.762	135+18.86	LT				CLP_I077							1								
DA-147		P.762	135+41.61	RT	TO	135+43.76	RT	CLP_I077	10		1					18							
DA-148		P.762-P.763	135+41.61	RT	TO	137+55.83	RT	CLP_I077	21			1				195							
DA-149		P.762	136+21.53	RT	TO	136+29.03	RT	CLP_I077				1				47							
DA-150		P.762-P.763	136+21.53	RT	TO	137+29.15	LT	CLP_I077				1				123							
DA-151		P.762-P.763	136+21.53	RT	TO	138+28.01	RT	CLP_I077					1			207							
DA-152		P.762	136+29.03	RT	TO	136+67.10	RT	CLP_I077								44							
DA-153		P.763	137+55.68	RT	TO	137+55.83	RT	CLP_I077				1				7							
DA-154		P.763	137+55.68	RT	TO	137+59.71	RT	CLP_I077				1				27							
DA-155		P.763	137+55.83	RT	TO	139+43.07	RT	CLP_I077	10			1				180							
TOTALS CARRIED TO P.722									689	73	8	24	11	1	1	2350	1346		102				

Preliminary Plans - For Reference Only

MODEL: Sheet 3 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:03 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS006.dgn

DRAINAGE REMOVAL SUBSUMMARY

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.718 TOTAL P.1269

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	202 PIPE REMOVED, 24" AND UNDER FT	202 PIPE REMOVED, OVER 24" FT	202 MANHOLE REMOVED EACH	202 CATCH BASIN REMOVED EACH	202 INLET REMOVED EACH	202 INLET ABANDONED, AS PER PLAN EACH	202 MANHOLE ABANDONED EACH	SPECIAL FILL AND PLUG EXISTING CONDUIT, 24" AND UNDER FT	SPECIAL FILL AND PLUG EXISTING CONDUIT, 27" TO 48" FT	SPECIAL	SPECIAL PIPE CLEANOUT, 24" AND UNDER FT	SPECIAL PIPE CLEANOUT, 27" TO 48" FT	SPECIAL	202 REMOVAL MISC.: MANUFACTURED SYSTEM, TYPE 1 REMOVED EACH	202 REMOVAL MISC.: TRENCH DRAIN REMOVED FT
DA-156A		P.763	137+86.66	RT	TO	138+26.35	RT	CLP_I077	40														
DA-156		P.763	138+26.35	RT	TO	138+28.01	RT	CLP_I077				1				51							
DA-156B		P.763	138+26.35	RT	TO	138+66.19	RT	CLP_I077	80														
DA-157		P.763	138+28.01	RT	TO	138+63.36	LT	CLP_I077	11							29							
DA-158		P.763	138+28.01	RT	TO	140+26.09	RT	CLP_I077					1			199							
DA-159		P.763-P.764	140+26.09	RT	TO	143+02.10	RT	CLP_I077	279				1										
DA-160		P.764	142+58.41	RT	TO	142+69.06	RT	CLP_I077	12										5				
DA-161		P.764	142+59.06	RT	TO	142+69.06	RT	CLP_I077				1				46							
DA-162		P.764	142+65.58	LT	TO	142+66.25	LT	CLP_I077				1				55							
DA-163		P.764	143+02.10	RT	TO	144+62.38	LT	CLP_I077	10				1			151							
DA-164		P.764	144+62.22	LT	TO	144+62.38	LT	CLP_I077				1				50							
DA-165		P.764	144+62.38	LT	TO	144+76.20	RT	CLP_I077				1				54							
DA-167		P.764-P.765	144+62.38	LT	TO	147+02.09	LT	CLP_I077	10				1			230							
DA-168		P.764	145+78.63	RT	TO	146+04.00	RT	CLP_I077	35			1											
DA-169		P.764-P.765	146+04.00	RT	TO	147+26.58	RT	CLP_I077	124			1											
DA-170		P.764-P.765	146+44.06	RT	TO	147+08.02	RT	CLP_I077	65														
DA-171		P.765	147+02.09	LT	TO	147+08.02	RT	CLP_I077				1				56							
DA-172		P.765	147+02.09	LT	TO	148+65.01	LT	CLP_I077	10				1			153							
DA-173		P.765	147+08.02	RT	TO	147+26.58	RT	CLP_I077				1				38							
DA-174		P.765	147+08.02	RT	TO	147+37.96	RT	CLP_I077				1				30							
DA-175		P.765	147+26.58	RT	TO	147+99.91	RT	CLP_I077				1				75							
DA-175A		P.765	147+46.16	RT	TO	149+51.88	RT	CLP_I077															206
DA-176		P.765	147+64.30	LT	TO	148+39.66	LT	CLP_I077	12			1							65				
DA-177		P.765	148+65.01	LT	TO	150+92.98	RT	CLP_I077	10				1			219							
DA-178		P.765	150+42.51	LT	TO	151+18.86	LT	CLP_I077	79			1											
DA-179		P.765	150+75.15	LT	TO	151+18.86	LT	CLP_I077	44														
DA-181		P.765	150+91.91	RT	TO	150+92.98	RT	CLP_I077				1				70							
DA-180		P.765	150+92.98	RT	TO	151+18.86	LT	CLP_I077				1				65							
DA-182		P.765-P.766	150+92.98	RT	TO	153+01.98	RT	CLP_I077	10				1			200							
DA-183A		P.765	151+31.78	LT	TO	152+02.95	LT	CLP_I077				1				74							
DA-183		P.766	152+02.95	LT	TO	153+05.88	LT	CLP_I077				1				104							
DA-184		P.766	153+01.98	RT	TO	153+05.88	LT	CLP_I077				1				70							
DA-185		P.766	153+01.98	RT	TO	154+03.65	RT	CLP_I077	10							91							
DA-186		P.766	154+03.65	RT	TO	155+62.69	RT	CLP_I077	10							148							
DA-187		P.766-P.767	155+62.69	RT	TO	157+62.15	RT	CLP_I077					1			200							
DA-188		P.767	157+04.97	LT	TO	157+33.61	LT	CLP_I077								83							
DA-189		P.767	157+33.61	LT	TO	157+53.25	LT	CLP_I077				1				22							
DA-190		P.767	157+53.25	LT	TO	157+62.15	RT	CLP_I077			1					49							
DA-191		P.767	157+62.15	RT	TO	158+50.83	RT	CLP_I077					1			89							
DA-192		P.767	158+16.09	RT	TO	158+50.83	RT	CLP_I077				1				63							
DA-193		P.767	158+50.83	RT	TO	159+71.79	RT	CLP_I077	10		1					112							
DA-194		P.767	159+71.79	RT	TO	161+02.08	RT	CLP_I077					1			131							
DA-195		P.767	160+33.34	LT	TO	160+43.12	RT	CLP_I077								56							
DA-196		P.767-P.768	161+02.08	RT	TO	162+50.99	RT	CLP_I077	150				1										
DA-197		P.768	162+19.58	LT	TO	162+50.99	RT	CLP_I077	11			1				53							
DA-198		P.768	162+32.03	RT	TO	162+50.99	RT	CLP_I077	11			1				42							
DA-199		P.768	162+50.99	RT	TO	164+01.97	RT	CLP_I077	152				1										
DA-200		P.768	163+88.34	LT	TO	164+01.97	RT	CLP_I077				1				55							
DA-201		P.768	163+92.79	RT	TO	164+01.97	RT	CLP_I077				1				49							
DA-202		P.768	164+01.97	RT	TO	165+64.87	RT	CLP_I077					1			164							
TOTALS CARRIED TO P.722									1185		2	24	13			3426			70				206

Preliminary Plans - For Reference Only

MODEL: Sheet 4 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:03 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS006.dgn

DRAINAGE REMOVAL SUBSUMMARY

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.719 TOTAL P.1269

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	202 PIPE REMOVED, 24" AND UNDER FT	202 PIPE REMOVED, OVER 24" FT	202 MANHOLE REMOVED EACH	202 CATCH BASIN REMOVED EACH	202 INLET REMOVED EACH	202 INLET ABANDONED, AS PER PLAN EACH	202 MANHOLE ABANDONED EACH	SPECIAL FILL AND PLUG EXISTING CONDUIT, 24" AND UNDER FT	SPECIAL FILL AND PLUG EXISTING CONDUIT, 27" TO 48" FT	SPECIAL PIPE CLEANOUT, 24" AND UNDER FT	SPECIAL PIPE CLEANOUT, 27" TO 48" FT	202 REMOVAL MISC.: MANUFACTURED SYSTEM, TYPE 1 REMOVED EACH	202 REMOVAL MISC.: TRENCH DRAIN REMOVED FT
DA-203		P.768	165+64.87	LT	TO	165+64.87	RT	CLP_I077				1				73					
DA-204		P.768	165+45.71	RT	TO	165+64.87	RT	CLP_I077					1			20					
DA-205		P.768	165+50.84	RT	TO	165+64.87	RT	CLP_I077				1				50					
DA-206		P.768	165+64.87	RT				CLP_I077							1						
DA-207		P.768-P.769	165+64.87	RT	TO	167+71.44	RT	CLP_I077	11				1			196					
DA-208		P.769	167+30.97	RT	TO	167+30.97	RT	CLP_I077	11												
DA-209		P.769	167+71.44	RT	TO	169+15.09	RT	CLP_I077								144					
DA-210		P.769	169+95.85	RT	TO	170+63.31	LT	CLP_I077								80					
DA-211		P.769-P.770	170+80.15	RT	TO	173+32.60	RT	CLP_I077			1						254				
DA-212		P.769	170+98.02	RT	TO	171+15.80	RT	CLP_I077				1				58					
DA-213		P.769	171+15.80	RT	TO	171+16.50	LT	CLP_I077				1				50					
DA-214		P.769-P.770	171+15.80	RT	TO	173+32.60	RT	CLP_I077					1			217					
DA-220		P.769-P.770	171+91.49	LT	TO	175+35.54	LT	CLP_I077		8	1								340		
DA-215		P.770	173+32.60	RT	TO	173+51.55	RT	CLP_I077	19				1								
DA-216		P.770	173+32.60	RT	TO	175+50.05	LT	CLP_I077		62							167				
DA-217		P.770	173+51.55	RT	TO	174+77.63	RT	CLP_I077								127					
DA-218		P.770	175+12.67	LT	TO	175+50.05	LT	CLP_I077	37												
DA-219		P.770	175+32.26	LT	TO	175+50.05	LT	CLP_I077		9									33		
DA-222		P.770	175+35.54	LT	TO	176+19.99	LT	CLP_I077		33									84		
DA-223		P.770	175+50.05	LT	TO	176+38.15	LT	CLP_I077										297			
DA-224		P.770-P.771	175+50.05	LT	TO	178+26.27	RT	CLP_I077		71	1						216				
DA-225		P.770	176+66.08	LT	TO	176+79.74	LT	CLP_I077	40		1										
DA-226		P.770-P.771	176+79.74	LT	TO	176+79.74	LT	CLP_I077	40												
DA-226A		P.771	178+26.27	RT	TO	178+46.31	RT	CLP_I077					1			21					
DA-227A		P.771	178+26.27	RT	TO	181+51.30	RT	CLP_I077			1						326				
DA-227		P.771	180+51.64	RT	TO	181+00.95	RT	CLP_I077				1				71					
DA-228		P.771	181+00.95	RT	TO	181+51.30	RT	CLP_I077	51				1								
DA-229		P.771-P.772	181+51.30	RT	TO	183+99.40	RT	CLP_I077			1						249				
DA-230		P.772	182+61.17	LT	TO	183+00.59	RT	CLP_I077								40					
DA-232		P.772	182+95.49	LT	TO	183+95.49	LT	CLP_I077	99			1									
DA-231		P.772	183+00.59	RT	TO	183+99.40	RT	CLP_I077	10				1			89					
DA-233		P.772	183+95.49	LT	TO	183+99.40	RT	CLP_I077				1				64					
DA-234		P.772	183+95.49	LT	TO	185+03.20	LT	CLP_I077				1				108					
DA-235		P.772	183+99.40	RT	TO	184+50.60	RT	CLP_I077					1			52					
DA-236		P.772-P.773	183+99.40	RT	TO	187+00.94	LT	CLP_I077			1						302				
DA-237		P.773	187+00.94	LT	TO	189+87.98	LT	CLP_I077			1						288				
DA-238		P.773	187+00.94	LT	TO	187+51.10	LT	CLP_I077					1			51					
DA-239		P.773	188+82.99	RT	TO	189+01.61	RT	CLP_I077				1				21					
DA-240		P.773	189+01.61	RT	TO	189+18.79	RT	CLP_I077	17		1										
DA-241		P.773	189+16.14	RT	TO	189+18.79	RT	CLP_I077	54											1	
DA-242		P.773	189+18.79	RT	TO	190+77.11	RT	CLP_I077	155		1										
DA-243		P.773	189+76.09	LT	TO	189+87.98	LT	CLP_I077					1			12					
DA-244		P.773-P.774	189+87.98	LT	TO	192+86.13	LT	CLP_I077		299	1										
DA-245		P.773	190+77.11	RT	TO	191+75.20	RT	CLP_I077	96			1									
DA-246		P.773	191+83.38	LT				CLP_I077					1								
DA-247		P.774	192+60.60	RT	TO	192+64.28	RT	CLP_I077				1				24					
DA-248		P.774	192+64.28	RT	TO	192+86.47	RT	CLP_I077				1				50					
DA-249		P.774	192+71.66	LT	TO	192+83.98	LT	CLP_I077	40			1									
DA-250		P.774	192+83.98	LT	TO	192+86.13	LT	CLP_I077	51			1									
DA-252		P.774	192+83.98	LT	TO	193+40.88	LT	CLP_I077				1				64					
TOTALS CARRIED TO P.722									731	482	11	15	11		1	1682	1802		297	457		1	

Preliminary Plans - For Reference Only

DRAINAGE REMOVAL SUBSUMMARY

CUY-77-11.41 - PART 1

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.720 TOTAL P.1269

MODEL: Sheet 5 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:04 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS006.dgn

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	202 PIPE REMOVED, 24" AND UNDER	202 PIPE REMOVED, OVER 24"	202 MANHOLE REMOVED	202 CATCH BASIN REMOVED	202 INLET REMOVED	202 INLET ABANDONED, AS PER PLAN	202 MANHOLE ABANDONED	SPECIAL FILL AND PLUG EXISTING CONDUIT, 24" AND UNDER	SPECIAL FILL AND PLUG EXISTING CONDUIT, 27" TO 48"	SPECIAL	SPECIAL PIPE CLEANOUT, 24" AND UNDER	SPECIAL PIPE CLEANOUT, 27" TO 48"	SPECIAL	202 REMOVAL MISC.: MANUFACTURED SYSTEM, TYPE 1 REMOVED	202 REMOVAL MISC.: TRENCH DRAIN REMOVED
									FT	FT	EACH	EACH	EACH	EACH	EACH	FT	FT		FT	FT		EACH	FT
DA-251		P.774	192+86.13	LT	TO	192+86.47	RT	CLP_I077			1					52							
DA-253		P.774	192+86.47	RT	TO	194+88.46	RT	CLP_I077		10	1						193						
DA-254		P.774	193+36.74	LT	TO	193+40.88	LT	CLP_I077				1				23							
DA-254A		P.774	194+63.14	RT	TO	194+88.46	RT	CLP_I077								26							
DA-255		P.774	194+63.62	LT	TO	194+91.01	LT	CLP_I077				1				59							
DA-256		P.774	194+78.90	RT	TO	194+87.04	RT	CLP_I077	27										31				
DA-257		P.774	194+87.04	RT	TO	194+88.46	RT	CLP_I077			1					50							
DA-258		P.774	194+88.46	RT	TO	194+91.01	LT	CLP_I077			1					56							
DA-259		P.774	194+88.46	RT	TO	194+99.69	LT	CLP_I077					1			13							
DA-260		P.774	194+88.46	RT	TO	196+87.23	RT	CLP_I077		20	1						179						
DA-261		P.774	194+91.01	LT	TO	195+15.80	LT	CLP_I077			1					62							
DA-262		P.774	195+15.80	LT	TO	195+24.46	LT	CLP_I077				1				14							
DA-263		P.774-P.775	195+15.80	LT	TO	197+09.17	LT	CLP_I077			1					199							
DA-264		P.774	196+55.22	LT	TO	196+83.78	LT	CLP_I077								41							
DA-265		P.774	196+67.22	LT	TO	196+83.78	LT	CLP_I077								43							
DA-266		P.774	196+82.25	RT	TO	196+87.23	RT	CLP_I077				1				48							
DA-267		P.774	196+83.78	LT	TO	196+87.23	RT	CLP_I077				1				57							
DA-268		P.774-P.775	196+83.78	LT	TO	197+00.26	LT	CLP_I077	10														
DA-269		P.774-P.775	196+87.23	RT	TO	197+50.74	RT	CLP_I077			1						65						
DA-270		P.774-P.775	196+87.23	RT	TO	197+04.72	LT	CLP_I077					1			19							
DA-271		P.775	197+09.17	LT	TO	197+14.46	LT	CLP_I077				1				60							
DA-272		P.775	197+09.17	LT	TO	197+15.60	LT	CLP_I077	7										5				
DA-274		P.775	197+50.74	RT	TO	198+60.74	RT	CLP_I077			1						110						
DA-273		P.775	197+56.66	LT	TO	197+57.89	LT	CLP_I077	10														
DA-275		P.775	198+38.34	LT	TO	198+42.84	LT	CLP_I077	10														
DA-276		P.775	198+56.00	LT				CLP_I077			1												
DA-278		P.775	198+60.74	RT	TO	199+75.65	LT	CLP_I077		10			1				106						
DA-277		P.775	199+09.79	RT	TO	199+28.80	RT	CLP_I077	10														
DA-279		P.775	199+36.94	LT	TO	199+76.27	LT	CLP_I077	41														
DA-280		P.775	199+49.30	RT	TO	199+75.23	RT	CLP_I077								41							
DA-281		P.775	199+56.00	RT	TO	199+75.23	RT	CLP_I077								43							
DA-282		P.775	199+61.84	RT	TO	199+75.23	RT	CLP_I077								40							
DA-283		P.775	199+75.23	RT	TO	199+75.65	LT	CLP_I077				1				67							
DA-287		P.775	199+75.23	RT	TO	201+08.08	RT	CLP_I077				1				133							
DA-284		P.775	199+75.65	LT	TO	199+76.27	LT	CLP_I077				1				48							
DA-286		P.775	199+75.65	LT	TO	200+20.41	LT	CLP_I077					1				45						
DA-285		P.775	199+76.27	LT	TO	200+15.07	LT	CLP_I077	39			1											
DA-288		P.775	200+11.20	LT	TO	200+15.07	LT	CLP_I077								40							
DA-289		P.775	200+15.07	LT	TO	200+18.94	LT	CLP_I077	20							21							
DA-290		P.775	200+15.07	LT	TO	200+54.88	LT	CLP_I077	40														
DA-291		P.775	200+20.41	LT	TO	202+98.46	LT	CLP_I077		10			1				269						
DA-292		P.775	200+20.41	LT	TO	201+07.41	LT	CLP_I077	10				1			77							
DA-295		P.775	201+07.41	LT	TO	201+34.02	LT	CLP_I077	15		1					46							
DA-293		P.775	201+08.08	RT	TO	201+11.95	RT	CLP_I077								40							
DA-294		P.775-P.776	201+08.08	RT	TO	202+06.65	RT	CLP_I077				1				100							
DA-296		P.775-P.776	201+31.69	LT	TO	202+90.32	LT	CLP_I077								159							
DA-297		P.775	201+34.02	LT	TO	201+60.85	LT	CLP_I077	28			1											
DA-298		P.775-P.776	201+60.85	LT	TO	202+00.66	LT	CLP_I077	40														
DA-299		P.776	202+98.46	LT	TO	203+01.34	LT	CLP_I077	10		1					55							
DA-300		P.776	202+98.46	LT	TO	205+95.10	RT	CLP_I077	10		1					296							
TOTALS CARRIED TO P.722									327	50	13	12	6			2028	967		36				

Preliminary Plans - For Reference Only

MODEL: Sheet 6 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:04 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS006.dgn

DRAINAGE REMOVAL SUBSUMMARY

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.721 TOTAL P.1269

DRAINAGE REMOVAL SUBSUMMARY

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION	ALIGNMENT	202 PIPE REMOVED, 24" AND UNDER FT	202 PIPE REMOVED, OVER 24" FT	202 MANHOLE REMOVED EACH	202 CATCH BASIN REMOVED EACH	202 INLET REMOVED EACH	202 INLET ABANDONED, AS PER PLAN EACH	202 MANHOLE ABANDONED EACH	SPECIAL FILL AND PLUG EXISTING CONDUIT, 24" AND UNDER FT	SPECIAL FILL AND PLUG EXISTING CONDUIT, 27" TO 48" FT	SPECIAL	SPECIAL PIPE CLEANOUT, 24" AND UNDER FT	SPECIAL PIPE CLEANOUT, 27" TO 48" FT	SPECIAL	202 REMOVAL MISC.: MANUFACTURED SYSTEM, TYPE 1 REMOVED EACH	202 REMOVAL MISC.: TRENCH DRAIN REMOVED FT
DA-301		P.776	203+01.34 LT TO 203+04.45 LT	CLP_I077	10							31							
DA-302		P.776	203+01.34 LT TO 204+35.96 LT	CLP_I077	22										180				
DA-303		P.776	205+90.10 RT TO 205+95.10 RT	CLP_I077				1				38							
DA-308		P.777	210+25.05 LT TO 210+35.78 LT	CLP_I077	10										30				
DA-311		P.777	210+35.78 LT TO 211+67.65 LT	CLP_I077	33										206				
DA-309		P.777	211+67.65 LT	CLP_I077			1												
DA-310		P.777-P.778	211+67.65 LT TO 212+08.64 LT	CLP_I077	17										65				
DA-312		P.778	212+08.64 LT TO 212+09.30 LT	CLP_I077					1			62							
DA-313		P.778	214+10.23 RT TO 215+55.00 RT	CLP_I077	145				1										
DA-315		P.778	215+39.02 LT TO 215+54.96 LT	CLP_I077	11			1							37				
DA-314		P.778	215+54.96 LT TO 215+55.00 RT	CLP_I077	10			1											
DA-321		P.779	217+47.87 LT TO 217+87.29 LT	CLP_I077	40														
DA-322		P.779	220+60.41 RT TO 221+11.40 LT	CLP_I077	11				1						73				
DA-323		P.780	223+23.38 RT TO 223+58.76 LT	CLP_I077	11				1						97				
DA-324		P.780	223+58.76 LT TO 223+96.59 LT	CLP_I077	22										57				
DA-7		P.781	299+25.34 RT TO 300+16.27 RT	BLP_R283A3	6			1							86				
DA-8		P.781	300+73.08 LT TO 301+55.68 LT	BLP_R283A3	11										72				
DA-8A		P.781	301+17.43 LT TO 301+55.68 LT	BLP_R283A3	11										54				
DA-9		P.781	301+46.37 LT TO 301+66.98 LT	BLP_R283A3	23														
DA-10		P.781	301+55.68 LT TO 303+57.04 LT	BLP_R283A3	36		1					166							
DA-11		P.781	301+55.68 LT TO 301+66.98 LT	BLP_R283A3	16			1											
DA-12		P.781	301+66.75 RT TO 301+66.98 LT	BLP_R283A3				1				25							
DA-17		P.781	303+12.31 LT TO 303+53.47 LT	BLP_R283A3	42														
DA-16		P.781	303+13.65 RT TO 303+54.92 RT	BLP_R283A3	42														
DA-19		P.781	303+53.47 LT TO 303+57.04 LT	BLP_R283A3				1				17							
DA-18		P.781	303+53.47 LT TO 303+54.92 RT	BLP_R283A3				1				25							
DA-20		P.781-P.782	303+57.04 LT TO 305+37.79 LT	BLP_R283A3			1					181							
DA-25		P.782	305+07.74 LT TO 305+49.93 LT	BLP_R283A3								43							
DA-26		P.782	305+13.14 RT TO 305+54.44 RT	BLP_R283A3								42							
DA-30		P.782	305+37.79 LT TO 305+60.44 RT	BLP_R283A3			1					85							
DA-31		P.782	305+37.79 LT TO 305+49.93 LT	BLP_R283A3				1				18							
DA-33		P.782	305+54.44 RT TO 305+60.44 RT	BLP_R283A3				1				42							
DA-5A		P.783	399+92.00 LT TO 400+51.55 LT	BLP_R283A4	6			1				54							
DA-14		P.784	404+40.64 LT TO 404+42.89 RT	BLP_R283A4				1				28							
DA-15		P.784	404+42.89 RT TO 406+14.82 RT	BLP_R283A4				1				175							
DA-90		P.785	109+04.61 RT TO 109+46.46 RT	BLP_R043B1	13			1				52							
DA-304		P.786	107+76.44 LT TO 108+90.56 LT	BLP_R043E1			1					118							
DA-306		P.786-P.787	108+90.56 LT TO 110+09.34 LT	BLP_R043E1			1					121							
DA-305		P.787	110+08.04 RT TO 110+09.34 LT	BLP_R043E1			1					28							
DA-307		P.787	110+09.34 LT TO 112+17.26 LT	BLP_R043E1			1					210							
DA-332		P.787	112+17.26 LT TO 112+28.77 RT	BLP_R043E1			1					48							
TOTALS CARRIED FROM THIS SHEET					548		9	14	4			1609			957				
TOTALS CARRIED FROM P.716					1114	232	11	22	8		1	1272	2145		436	42			74
TOTALS CARRIED FROM P.717					1915	60	8	24	9			1314	2422		14				186
TOTALS CARRIED FROM P.718					689	73	8	24	11	1	1	2350	1346		102				
TOTALS CARRIED FROM P.719					1185		2	24	13			3426			70				206
TOTALS CARRIED FROM P.720					731	482	11	15	11		1	1682	1802		297	457		1	
TOTALS CARRIED FROM P.721					327	50	13	12	6			2028	967		36				
TOTALS CARRIED TO GENERAL SUMMARY					6509	897	62	135	62	1	3	13681	8682		1912	499		1	466

Preliminary Plans - For Reference Only

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.722 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet 7 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:05 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS006.dgn

EROSION SUBSUMMARY

REF NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	CADD AREA (SF)	601 RIPRAP, TYPE D SY	601 ROCK CHANNEL PROTECTION, TYPE C WITH FILTER CY	601 PAVED GUTTER, TYPE 1-2 FT	670 DITCH EROSION PROTECTION MAT, TYPE B SY	836 SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 SY
E-1	P.752-P.753	84+32.55	LT	TO	89+39.20	LT	CLP_I077	1989				221.0	
E-2	P.753	88+50.00	RT	TO	88+75.00	RT	CLP_I077			8			
E-3	P.754-P.756	96+80.96	LT	TO	106+05.92	LT	CLP_I077	3719				413.2	
E-4	P.756	102+85.51	RT	TO	106+96.56	RT	CLP_I077	1614				179.3	
E-4A	P.756-P.757	106+96.56	RT	TO	108+01.41	RT	CLP_I077	420				46.7	
E-5	P.757	111+65.45	RT	TO	112+00.00	RT	CLP_I077			12			
E-6	P.758	112+99.08	LT	TO	113+15.00	LT	CLP_I077			11			
E-6A	P.759	117+72.66	LT	TO	117+79.00	LT	CLP_I077	24	2.7				
E-6B	P.759	118+68.84	RT	TO	118+74.32	RT	CLP_I077	24	2.7				
E-7	P.759-P.760	120+80.00	RT	TO	125+50.23	RT	CLP_I077	6663				740.3	
E-8	P.760-P.761	126+50.12	LT	TO	128+99.79	LT	CLP_I077	1930				214.4	
E-9	P.761	128+99.79	LT	TO	129+28.04	LT	CLP_I077	166					18.4
E-10	P.761	129+28.04	LT	TO	131+35.36	LT	CLP_I077	841				93.4	
E-11	P.761	131+35.36	LT	TO	131+76.36	LT	CLP_I077	237				26.3	
E-12	P.761-P.762	131+76.36	LT	TO	134+00.00	LT	CLP_I077	1739				193.2	
E-12A	P.762	134+00.00	LT	TO	135+01.01	LT	CLP_I077	725				80.6	
E-13	P.762-P.763	135+01.01	LT	TO	137+29.76	LT	CLP_I077	1763					195.9
E-14	P.763	140+99.87	LT	TO	141+25.00	LT	CLP_I077			12			
E-14A	P.766-P.767	156+26.06	LT	TO	157+24.93	LT	CLP_I077	393				43.7	
E-15	P.767	159+12.00	LT	TO	160+57.74	LT	CLP_I077	577				64.1	
E-16	P.767-P.768	161+23.21	LT	TO	163+76.17	LT	CLP_I077	997				110.8	
E-17	P.770-P.771	176+55.91	LT	TO	179+18.85	LT	CLP_I077	1020				113.3	
E-18	P.775	197+02.06	LT	TO	197+49.41	LT	CLP_I077			11			
E-19	P.775	197+12.20	RT	TO	197+50.05	RT	CLP_I077			12			
E-20	P.775	198+46.74	RT	TO	198+50.74	RT	CLP_I077			4			
E-21	P.778	210+75.00	LT	TO	213+75.00	LT	CLP_I077				300		
E-22	P.787	112+04.20	RT	TO	112+10.97	RT	BLP_R043E1	24	2.7				
TOTALS CARRIED TO GENERAL SUMMARY									8	70	300	2541	215

Preliminary Plans - For Reference Only

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
MAW 05/01/26

PROJECT ID
105743

SHEET P.723 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:10 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS005.dgn

DRAINAGE SUBSUMMARY

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	602 CONCRETE MASONRY CY	611 6" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 6" CONDUIT, TYPE B, AS PER PLAN 1, 707.65 FT	611 6" CONDUIT, TYPE C, AS PER PLAN 1, 707.65 FT	611 8" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 8" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 12" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 1, 707.65 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 3 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 5 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 1, 707.65 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 3 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 4 FT	611 18" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 18" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 18" CONDUIT, TYPE B, AS PER PLAN 1, 707.65 FT	611 18" CONDUIT, TYPE B, AS PER PLAN 2 FT	611 18" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 18" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 21" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 21" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 24" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 24" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 24" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 24" CONDUIT, TYPE C, AS PER PLAN 1, 707.01 FT	611 27" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 27" CONDUIT, TYPE C, AS PER PLAN 1 FT
D-4B		P.750	75+00.00	RT	TO	75+10.00	RT	CLP_I077																								10						
D-4A		P.750	75+07.00	RT	TO	75+10.00	RT	CLP_I077																														
D-4C		P.750	75+07.00	LT	TO	75+11.00	LT	CLP_I077																										10				
D-4D		P.750	75+11.00	LT	TO	75+56.50	LT	CLP_I077																														
D-3A		P.750-P.751	75+56.50	LT	TO	77+70.00	LT	CLP_I077							6																						
D-3B		P.751	77+70.00	LT	TO	78+50.00	LT	CLP_I077																														
D-3C		P.751	77+70.00	LT	TO	77+70.00	LT	CLP_I077											10																		
D-3D		P.751	78+50.00	LT	TO	78+98.50	LT	CLP_I077																														
D-5		P.751	78+90.00	RT	TO	78+90.00	LT	CLP_I077																														
D-6		P.751	78+90.00	LT	TO	78+98.50	LT	CLP_I077								19																						
D-3		P.751	78+98.50	LT	TO	81+60.50	LT	CLP_I077																														
D-4		P.751	79+00.00	RT	TO	80+96.00	RT	CLP_I077								198																						
D-10A		P.751	80+62.00	LT	TO	81+60.00	LT	CLP_I077								97																						
D-8		P.751	80+96.00	RT	TO	81+67.00	RT	CLP_I077								70																						
D-9		P.751	81+60.00	RT	TO	81+60.00	LT	CLP_I077																														
D-10		P.751	81+60.00	LT	TO	81+60.50	LT	CLP_I077																										17				
D-13A		P.751	81+60.00	RT	TO	81+67.00	RT	CLP_I077																														
D-14		P.751-P.752	81+60.00	RT	TO	82+56.86	RT	CLP_I077								97																						
D-7		P.751-P.752	81+60.50	LT	TO	83+51.00	LT	CLP_I077																														
D-13		P.751	81+67.00	RT	TO	81+68.41	RT	CLP_I077																														
D-15C		P.752	82+25.00	LT	TO	82+56.86	LT	CLP_I077								31																						
D-15		P.752	82+56.86	LT	TO	82+90.00	LT	CLP_I077								34																						
D-16		P.752	82+56.86	RT	TO	83+50.00	RT	CLP_I077								94																						
D-17A		P.752	82+90.00	LT	TO	83+49.00	LT	CLP_I077								58																						
D-17		P.752	83+49.00	LT	TO	83+51.00	LT	CLP_I077																														
D-12		P.752	83+51.00	LT	TO	85+99.00	LT	CLP_I077																														
D-19		P.752	83+51.00	LT	TO	83+72.06	LT	CLP_I077								41																						
D-18		P.752	83+72.06	LT	TO	83+98.50	LT	CLP_I077								24																						
D-18A		P.752	83+98.50	LT	TO	84+30.58	LT	CLP_I077																														
D-21A		P.752	84+32.23	LT	TO	84+82.84	LT	CLP_I077								50																						
D-21		P.752	84+82.84	LT	TO	85+99.31	LT	CLP_I077								115																						
D-22		P.752-P.753	85+99.00	LT	TO	89+10.00	LT	CLP_I077																														
D-24		P.752	85+99.31	LT	TO	85+99.00	LT	CLP_I077								16																						
D-23		P.752	85+99.00	LT	TO	86+00.00	RT	CLP_I077																														
D-26		P.753	88+17.21	LT	TO	89+10.00	LT	CLP_I077								93																						
D-27		P.753	89+09.16	LT	TO	90+00.00	LT	CLP_I077							11																							
D-30		P.753	89+98.44	RT	TO	90+00.00	LT	CLP_I077					8		10																							
D-28		P.753-P.754	90+00.00	LT	TO	92+94.00	LT	CLP_I077																														
D-31C		P.754	92+82.00	LT	TO	92+94.00	LT	CLP_I077											17																		
D-31		P.754	92+94.00	LT	TO	95+65.00	LT	CLP_I077																														
D-31A		P.754	92+94.00	LT	TO	92+94.16	RT	CLP_I077																														
D-31B		P.754	92+94.16	RT	TO	93+24.40	RT	CLP_I077																														
D-33		P.754	95+17.09	RT	TO	95+42.82	RT	CLP_I077						22																							
D-34A		P.754	95+42.82	RT	TO	95+56.94	LT	CLP_I077																														
D-34		P.754	95+42.82	RT	TO	95+55.00	RT	CLP_I077								15																						
D-36		P.754	95+55.00	LT	TO	95+65.00	LT	CLP_I077							4				13																		
D-32A		P.754	95+56.94	LT	TO	95+65.00	LT	CLP_I077																														
D-32		P.754-P.755	95+65.00	LT	TO	99+00.00	LT	CLP_I077																														
D-37A		P.755	98+90.00	LT	TO	99+00.00	LT	CLP_I077											16																		
D-37		P.755-P.756	99+00.00	LT	TO	103+77.00	LT	CLP_I077																														
TOTALS CARRIED TO P.739													8	22	31	1052			56		61			8									10	27				

Preliminary Plans - For Reference Only

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.724 | TOTAL P.1269

CUY-77-11.41 - PART 1
MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:16 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\3015125 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn
sydney.stefanek@trcext.com

| REF NO. | CFN NO. | SHEET NO. | STATION TO STATION | | | | | ALIGNMENT | 611 | 611 | 611 | | 611 | 611 | 611

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	611 CATCH BASIN, NO. 2-3 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN, NO. 2-5 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN, NO. 2-6 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN ADJUSTED TO GRADE EACH	611 INLET, NO. 2-A-6 EACH	611 INLET, NO. 2-A-8 EACH	611 INLET, NO. 2-A-10 EACH	611 INLET, NO. 2-A-12 EACH	611 INLET, NO. 2-A-16 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 2 EACH	611 INLET, MISC.: BARRIER INLET SCREEN EACH	611 MANHOLE, NO. 3 EACH	611 MANHOLE, NO. 3 WITH 60" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 72" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 84" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 90" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 96" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 108" BASE I.D. EACH	611 MANHOLE, NO. 5, AS PER PLAN EACH	611 MANHOLE ADJUSTED TO GRADE EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 60" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 72" BASE I.D. WITH BOLTED COVER EACH		611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 90" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 96" BASE I.D. WITH BOLTED COVER EACH	611 DRAINAGE STRUCTURE, MISC.: RESHAPE AND REESTABLISH EXISTING CONNECTION EACH		
D-4B		P.750	75+00.00	RT	TO	75+10.00	RT	CLP_I077										1						1																		
D-4A		P.750	75+07.00	RT	TO	75+10.00	RT	CLP_I077							1																											
D-4C		P.750	75+07.00	LT	TO	75+11.00	LT	CLP_I077							1																										
D-4D		P.750	75+11.00	LT	TO	75+56.50	LT	CLP_I077																			1													
D-3A		P.750-P.751	75+56.50	LT	TO	77+70.00	LT	CLP_I077																										1							
D-3B		P.751	77+70.00	LT	TO	78+50.00	LT	CLP_I077																										1							
D-3C		P.751	77+70.00	LT	TO	77+70.00	LT	CLP_I077							1																									
D-3D		P.751	78+50.00	LT	TO	78+98.50	LT	CLP_I077																										1							
D-5		P.751	78+90.00	RT	TO	78+90.00	LT	CLP_I077											1					1																
D-6		P.751	78+90.00	LT	TO	78+98.50	LT	CLP_I077						1																										
D-3		P.751	78+98.50	LT	TO	81+60.50	LT	CLP_I077																						1										
D-4		P.751	79+00.00	RT	TO	80+96.00	RT	CLP_I077							1																									
D-10A		P.751	80+62.00	LT	TO	81+60.00	LT	CLP_I077						1																										
D-8		P.751	80+96.00	RT	TO	81+67.00	RT	CLP_I077						1																										
D-9		P.751	81+60.00	RT	TO	81+60.00	LT	CLP_I077											1					1																
D-10		P.751	81+60.00	LT	TO	81+60.50	LT	CLP_I077						1																										
D-13A		P.751	81+60.00	RT	TO	81+67.00	RT	CLP_I077																					1										
D-14		P.751-P.752	81+60.00	RT	TO	82+56.86	RT	CLP_I077											1					1																
D-7		P.751-P.752	81+60.50	LT	TO	83+51.00	LT	CLP_I077																						1										
D-13		P.751	81+67.00	RT	TO	81+68.41	RT	CLP_I077																																
D-15C		P.752	82+25.00	LT	TO	82+56.86	LT	CLP_I077						1																										
D-15		P.752	82+56.86	LT	TO	82+90.00	LT	CLP_I077					1																											
D-16		P.752	82+56.86	RT	TO	83+50.00	RT	CLP_I077											1					1																
D-17A		P.752	82+90.00	LT	TO	83+49.00	LT	CLP_I077						1																										
D-17		P.752	83+49.00	LT	TO	83+51.00	LT	CLP_I077					1																											
D-12		P.752	83+51.00	LT	TO	85+99.00	LT	CLP_I077																						1										
D-19		P.752	83+51.00	LT	TO	83+72.06	LT	CLP_I077							1																									
D-18		P.752	83+72.06	LT	TO	83+98.50	LT	CLP_I077					1																											
D-18A		P.752	83+98.50	LT	TO	84+30.58	LT	CLP_I077																																
D-21A		P.752	84+32.23	LT	TO	84+82.84	LT	CLP_I077															1																	
D-21		P.752	84+82.84	LT	TO	85+99.31	LT	CLP_I077															1																	
D-22		P.752-P.753	85+99.00	LT	TO	89+10.00	LT	CLP_I077																						1										
D-24		P.752	85+99.31	LT	TO	85+99.00	LT	CLP_I077															1																	
D-23		P.752	85+99.00	LT	TO	86+00.00	RT	CLP_I077											1					1																
D-26		P.753	88+17.21	LT	TO	89+10.00	LT	CLP_I077															1																	
D-27		P.753	89+09.16	LT	TO	90+00.00	LT	CLP_I077																														1		
D-30		P.753	89+98.44	RT	TO	90+00.00	LT	CLP_I077																										1						
D-28		P.753-P.754	90+00.00	LT	TO	92+94.00	LT	CLP_I077																														1		
D-31C		P.754	92+82.00	LT	TO	92+94.00	LT	CLP_I077															1																	
D-31		P.754	92+94.00	LT	TO	95+65.00	LT	CLP_I077																														1		
D-31A		P.754	92+94.00	LT	TO	92+94.16	RT	CLP_I077																																
D-31B		P.754	92+94.16	RT	TO	93+24.40	RT	CLP_I077																																
D-33		P.754	95+17.09	RT	TO	95+42.82	RT	CLP_I077																																
D-34A		P.754	95+42.82	RT	TO	95+56.94	LT	CLP_I077																																
D-34		P.754	95+42.82	RT	TO	95+55.00	RT	CLP_I077															1																	
D-36		P.754	95+55.00	LT	TO	95+65.00	LT	CLP_I077																1																
D-32A		P.754	95+56.94	LT	TO	95+65.00	LT	CLP_I077																			1													
D-32		P.754-P.755	95+65.00	LT	TO	99+00.00	LT	CLP_I077																																1
D-37A		P.755	98+90.00	LT	TO	99+00.00	LT	CLP_I077															1																	
D-37		P.755-P.756	99+00.00	LT	TO	103+77.00	LT	CLP_I077																					1											
TOTALS CARRIED TO P.741													3	6	5			1	5		7	1		14	2	3	1	4		1				4				3	1				

Preliminary Plans - For Reference Only

MODEL: Sheet 3 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:17 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\trc-pw.bentley.com:trc-pw-01\Documents\05 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn

DRAINAGE SUBSUMMARY

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.726 | TOTAL P.1269

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	602	611	611		611	611	611	611	611	611	611		611	611	611	611	611	611	611		611	611	611	611	611	611	611	611	611	611	611	611	611
									CONCRETE MASONRY	6" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	6" CONDUIT, TYPE B, AS PER PLAN 1, 707.65		6" CONDUIT, TYPE C, AS PER PLAN 1, 707.65	8" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	8" CONDUIT, TYPE C, AS PER PLAN 1	12" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	15" CONDUIT, TYPE B, AS PER PLAN 1	15" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	15" CONDUIT, TYPE B, AS PER PLAN 1, 707.65		15" CONDUIT, TYPE B, AS PER PLAN 3	15" CONDUIT, TYPE B, AS PER PLAN 5	15" CONDUIT, TYPE C, AS PER PLAN 1	15" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	15" CONDUIT, TYPE C, AS PER PLAN 1, 707.65	15" CONDUIT, TYPE C, AS PER PLAN 3	15" CONDUIT, TYPE C, AS PER PLAN 4		18" CONDUIT, TYPE B, AS PER PLAN 1	18" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	18" CONDUIT, TYPE B, AS PER PLAN 1, 707.65	18" CONDUIT, TYPE B, AS PER PLAN 2	18" CONDUIT, TYPE C, AS PER PLAN 1	18" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	21" CONDUIT, TYPE B, AS PER PLAN 1	21" CONDUIT, TYPE C, AS PER PLAN 1	24" CONDUIT, TYPE B, AS PER PLAN 1	24" CONDUIT, TYPE C, AS PER PLAN 1	24" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	24" CONDUIT, TYPE C, AS PER PLAN 1, 707.01	27" CONDUIT, TYPE B, AS PER PLAN 1	27" CONDUIT, TYPE C, AS PER PLAN 1
									CY	FT	FT		FT	FT	FT	FT	FT	FT	FT		FT	FT	FT	FT	FT	FT	FT		FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT
D-38		P.755	99+00.00	RT	TO	99+00.00	LT	CLP_I077																																
D-38A		P.755	99+00.00	RT	TO	99+00.00	RT	CLP_I077																																
D-40		P.756	103+70.00	LT	TO	103+77.00	LT	CLP_I077													10																			
D-39		P.756	103+77.00	LT	TO	106+08.00	LT	CLP_I077																																
D-44		P.756	104+29.01	RT	TO	104+39.38	RT	CLP_I077													11																			
D-105		P.756	104+39.38	RT	TO	106+54.68	RT	CLP_I077									213																							
D-41		P.756-P.757	106+08.00	LT	TO	108+77.88	LT	CLP_I077																																
D-42		P.756	106+08.00	LT	TO	106+08.00	LT	CLP_I077													14																			
D-45		P.756	106+46.03	RT	TO	106+54.68	RT	CLP_I077													10																			
D-106		P.756-P.757	106+54.68	RT	TO	107+03.26	RT	CLP_I077									53																							
D-46A		P.756	106+96.56	RT	TO	106+97.52	RT	CLP_I077													7																			
D-46		P.756-P.757	106+97.52	RT	TO	107+03.26	RT	CLP_I077									33																							
D-107		P.757	107+03.26	RT	TO	108+16.81	RT	CLP_I077																														112		
D-47C		P.757	108+06.97	RT	TO	108+08.12	RT	CLP_I077									7																							
D-47		P.757	108+08.12	RT	TO	108+16.81	RT	CLP_I077									48																							
D-51		P.757	108+15.93	LT	TO	108+85.67	LT	CLP_I077									66																							
D-108		P.757	108+16.81	RT	TO	110+80.00	RT	CLP_I077																														260		
D-52		P.757	108+77.88	LT	TO	110+80.00	LT	CLP_I077																																
D-50		P.757	108+77.88	LT	TO	108+85.67	LT	CLP_I077																22																
D-49		P.757	108+85.67	LT	TO	109+17.68	LT	CLP_I077									34																							
D-47A		P.757	110+67.63	RT	TO	110+80.00	RT	CLP_I077																58															
D-53		P.757	110+80.00	RT	TO	110+80.00	LT	CLP_I077																																
D-48		P.757	110+80.00	LT	TO	110+80.00	LT	CLP_I077																																
D-43		P.757	110+80.00	LT	TO	113+39.00	LT	CLP_I077																																
D-54		P.757-P.758	110+80.00	LT	TO	111+12.00	LT	CLP_I077									38																							
D-43A		P.758-P.759	113+39.00	LT	TO	117+52.00	LT	CLP_I077																																
D-56		P.758	116+25.00	RT	TO	116+30.00	RT	CLP_I077													8																			
D-56A		P.758-P.759	116+30.00	RT	TO	117+57.00	RT	CLP_I077																126															
D-57		P.759	117+51.00	RT	TO	117+57.00	RT	CLP_I077													7																			
D-55		P.759	117+52.00	LT	TO	120+00.00	LT	CLP_I077																																
D-58		P.759	117+52.00	LT	TO	117+54.00	LT	CLP_I077																																
D-57A		P.759	117+57.00	RT	TO	117+74.52	RT	CLP_I077									42																							
D-O1		P.759	117+74.52	RT				CLP_I077	0.27																															
D-60		P.759	118+51.00	LT	TO	118+70.76	LT	CLP_I077									68																							
D-O2		P.759	118+70.76	LT				CLP_I077	0.27																															
D-59		P.759	120+00.00	LT	TO	120+14.49	LT	CLP_I077																																
D-59A		P.759-P.760	120+14.49	LT	TO	125+78.00	LT	CLP_I077																																
D-61		P.760-P.761	125+78.00	LT	TO	129+06.00	LT	CLP_I077																																
D-63		P.760	125+78.00	LT	TO	125+78.00	LT	CLP_I077																																
D-65		P.761	129+00.00	LT	TO	129+06.00	LT	CLP_I077																																
D-64A		P.761	129+06.00	LT	TO	130+65.00	LT	CLP_I077																																
D-69		P.761	129+06.00	LT	TO	129+07.00	LT	CLP_I077													8																			
D-66		P.761	129+77.31	LT	TO	130+65.00	LT	CLP_I077									88																							
D-70		P.761	129+77.31	LT	TO	130+65.00	LT	CLP_I077									89																							
D-67		P.761	130+65.00	LT	TO	130+65.00	LT	CLP_I077																																
D-68		P.761	130+65.00	LT	TO	130+65.00	LT	CLP_I077													8																			
D-64		P.761-P.762	130+65.00	LT	TO	133+71.00	LT	CLP_I077																																
D-74		P.762	132+98.96	RT	TO	133+00.00	RT	CLP_I077													8																			
D-76		P.762	132+98.96	RT	TO	134+59.58	RT	CLP_I077									161																							
D-73		P.762	132+98.96	RT	TO	133+00.15	RT	CLP_I077									31																							
D-75		P.762	133+00.00	RT	TO	135+83.00	RT	CLP_I077																														285		
TOTALS CARRIED TO P.739									0.54								971				91			206												285				372		

Preliminary Plans - For Reference Only

DRAINAGE SUBSUMMARY

CUY-77-11.41 - PART 1

MODEL: Sheet 4 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:17 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.727 TOTAL P.1269

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	611 30" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 30" CONDUIT, TYPE B, AS PER PLAN 2 FT	611 30" CONDUIT, TYPE C, AS PER PLAN 5 FT		611 36" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 36" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 42" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 48" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 48" CONDUIT, TYPE B, AS PER PLAN 2 FT	611 48" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 48" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 54" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 54" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 60" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 60" CONDUIT, TYPE B, AS PER PLAN 2 FT	611 66" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 14" X 23" CONDUIT, TYPE B, 706.04, AS PER PLAN 1 FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 15", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 18", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 21", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 24", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 27", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 30", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 36", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 14" X 23", TYPE B, 706.04 FT	611 CONDUIT, MISC.: 14" X 23" CONDUIT, TYPE C, 706.04, AS PER PLAN 1 FT	611 CONDUIT, MISC.: 24" X 38" CONDUIT, TYPE C, 706.04, AS PER PLAN 1 FT	611 CATCH BASIN, NO. 3A EACH	611 CATCH BASIN, NO. 5 EACH	611 CATCH BASIN, NO. 5, AS PER PLAN EACH	611 CATCH BASIN, NO. 6, AS PER PLAN EACH	611 CATCH BASIN, NO. 8 WITHOUT APRON EACH	611 CATCH BASIN, NO. 2-3 EACH
D-38		P.755	99+00.00	RT	TO	99+00.00	LT	CLP_I077																			53												
D-38A		P.755	99+00.00	RT	TO	99+00.00	RT	CLP_I077																			59												1
D-40		P.756	103+70.00	LT	TO	103+77.00	LT	CLP_I077																														
D-39		P.756	103+77.00	LT	TO	106+08.00	LT	CLP_I077																235														
D-44		P.756	104+29.01	RT	TO	104+39.38	RT	CLP_I077																														
D-105		P.756	104+39.38	RT	TO	106+54.68	RT	CLP_I077																														
D-41		P.756-P.757	106+08.00	LT	TO	108+77.88	LT	CLP_I077																280														
D-42		P.756	106+08.00	LT	TO	106+08.00	LT	CLP_I077																														1
D-45		P.756	106+46.03	RT	TO	106+54.68	RT	CLP_I077																														
D-106		P.756-P.757	106+54.68	RT	TO	107+03.26	RT	CLP_I077																														
D-46A		P.756	106+96.56	RT	TO	106+97.52	RT	CLP_I077																														1
D-46		P.756-P.757	106+97.52	RT	TO	107+03.26	RT	CLP_I077																														
D-107		P.757	107+03.26	RT	TO	108+16.81	RT	CLP_I077																														
D-47C		P.757	108+06.97	RT	TO	108+08.12	RT	CLP_I077																														1
D-47		P.757	108+08.12	RT	TO	108+16.81	RT	CLP_I077																														
D-51		P.757	108+15.93	LT	TO	108+85.67	LT	CLP_I077																														
D-108		P.757	108+16.81	RT	TO	110+80.00	RT	CLP_I077																														
D-52		P.757	108+77.88	LT	TO	110+80.00	LT	CLP_I077																218														
D-50		P.757	108+77.88	LT	TO	108+85.67	LT	CLP_I077																														
D-49		P.757	108+85.67	LT	TO	109+17.68	LT	CLP_I077																														
D-47A		P.757	110+67.63	RT	TO	110+80.00	RT	CLP_I077																														
D-53		P.757	110+80.00	RT	TO	110+80.00	LT	CLP_I077																														
D-48		P.757	110+80.00	LT	TO	110+80.00	LT	CLP_I077																														
D-43		P.757	110+80.00	LT	TO	113+39.00	LT	CLP_I077																														
D-54		P.757-P.758	110+80.00	LT	TO	111+12.00	LT	CLP_I077																														
D-43A		P.758-P.759	113+39.00	LT	TO	117+52.00	LT	CLP_I077																														
D-56		P.758	116+25.00	RT	TO	116+30.00	RT	CLP_I077																														
D-56A		P.758-P.759	116+30.00	RT	TO	117+57.00	RT	CLP_I077																														
D-57		P.759	117+51.00	RT	TO	117+57.00	RT	CLP_I077																														
D-55		P.759	117+52.00	LT	TO	120+00.00	LT	CLP_I077																252														
D-58		P.759	117+52.00	LT	TO	117+54.00	LT	CLP_I077																			67												
D-57A		P.759	117+57.00	RT	TO	117+74.52	RT	CLP_I077																														
D-O1		P.759	117+74.52	RT				CLP_I077																														
D-60		P.759	118+51.00	LT	TO	118+70.76	LT	CLP_I077																														1
D-O2		P.759	118+70.76	LT				CLP_I077																														
D-59		P.759	120+00.00	LT	TO	120+14.49	LT	CLP_I077																29														
D-59A		P.759-P.760	120+14.49	LT	TO	125+78.00	LT	CLP_I077																573														
D-61		P.760-P.761	125+78.00	LT	TO	129+06.00	LT	CLP_I077																333														
D-63		P.760	125+78.00	LT	TO	125+78.00	LT	CLP_I077																			59												
D-65		P.761	129+00.00	LT	TO	129+06.00	LT	CLP_I077																			46												
D-64A		P.761	129+06.00	LT	TO	130+65.00	LT	CLP_I077																161														
D-69		P.761	129+06.00	LT	TO	129+07.00	LT	CLP_I077																														
D-66		P.761	129+77.31	LT	TO	130+65.00	LT	CLP_I077																														
D-70		P.761	129+77.31	LT	TO	130+65.00	LT	CLP_I077																														
D-67		P.761	130+65.00	LT	TO	130+65.00	LT	CLP_I077																				45										
D-68		P.761	130+65.00	LT	TO	130+65.00	LT	CLP_I077																														
D-64		P.761-P.762	130+65.00	LT	TO	133+71.00	LT	CLP_I077																307														
D-74		P.762	132+98.96	RT	TO	133+00.00	RT	CLP_I077																														
D-76		P.762	132+98.96	RT	TO	134+59.58	RT	CLP_I077																														
D-73		P.762	132+98.96	RT	TO	133+00.15	RT	CLP_I077																														
D-75		P.762	133+00.00	RT	TO	135+83.00	RT	CLP_I077																														
TOTALS CARRIED TO P.740																						2807	262			284	45	120							2					4

Preliminary Plans - For Reference Only

DRAINAGE SUBSUMMARY

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.728 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet 5 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:18 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCE\v02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	611 CATCH BASIN, NO. 2-3 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN, NO. 2-5 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN, NO. 2-6 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN ADJUSTED TO GRADE EACH	611 INLET, NO. 2-A-6 EACH	611 INLET, NO. 2-A-8 EACH	611 INLET, NO. 2-A-10 EACH	611 INLET, NO. 2-A-12 EACH	611 INLET, NO. 2-A-16 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 2 EACH	611 INLET, MISC.: BARRIER INLET SCREEN EACH	611 MANHOLE, NO. 3 EACH	611 MANHOLE, NO. 3 WITH 60" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 72" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 84" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 90" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 96" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 108" BASE I.D. EACH	611 MANHOLE, NO. 5, AS PER PLAN EACH	611 MANHOLE ADJUSTED TO GRADE EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 60" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 72" BASE I.D. WITH BOLTED COVER EACH		611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 90" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 96" BASE I.D. WITH BOLTED COVER EACH	611 DRAINAGE STRUCTURE, MISC.: RESHAPE AND REESTABLISH EXISTING CONNECTION EACH
D-38		P.755	99+00.00	RT	TO	99+00.00	LT	CLP_I077										1							1																
D-38A		P.755	99+00.00	RT	TO	99+00.00	RT	CLP_I077																																
D-40		P.756	103+70.00	LT	TO	103+77.00	LT	CLP_I077													1				1															
D-39		P.756	103+77.00	LT	TO	106+08.00	LT	CLP_I077																															1		
D-44		P.756	104+29.01	RT	TO	104+39.38	RT	CLP_I077													1				1															
D-105		P.756	104+39.38	RT	TO	106+54.68	RT	CLP_I077																										1						
D-41		P.756-P.757	106+08.00	LT	TO	108+77.88	LT	CLP_I077																															1		
D-42		P.756	106+08.00	LT	TO	106+08.00	LT	CLP_I077																																	
D-45		P.756	106+46.03	RT	TO	106+54.68	RT	CLP_I077													1				1															
D-106		P.756-P.757	106+54.68	RT	TO	107+03.26	RT	CLP_I077																											1						
D-46A		P.756	106+96.56	RT	TO	106+97.52	RT	CLP_I077																																	
D-46		P.756-P.757	106+97.52	RT	TO	107+03.26	RT	CLP_I077													1				1															
D-107		P.757	107+03.26	RT	TO	108+16.81	RT	CLP_I077																		1														
D-47C		P.757	108+06.97	RT	TO	108+08.12	RT	CLP_I077																																	
D-47		P.757	108+08.12	RT	TO	108+16.81	RT	CLP_I077													1				1															
D-51		P.757	108+15.93	LT	TO	108+85.67	LT	CLP_I077						1																										
D-108		P.757	108+16.81	RT	TO	110+80.00	RT	CLP_I077																				1												
D-52		P.757	108+77.88	LT	TO	110+80.00	LT	CLP_I077																								1								
D-50		P.757	108+77.88	LT	TO	108+85.67	LT	CLP_I077							1																									
D-49		P.757	108+85.67	LT	TO	109+17.68	LT	CLP_I077							1																									
D-47A		P.757	110+67.63	RT	TO	110+80.00	RT	CLP_I077						1																										
D-53		P.757	110+80.00	RT	TO	110+80.00	LT	CLP_I077																																
D-48		P.757	110+80.00	LT	TO	110+80.00	LT	CLP_I077												1				1															
D-43		P.757	110+80.00	LT	TO	113+39.00	LT	CLP_I077																														1		
D-54		P.757-P.758	110+80.00	LT	TO	111+12.00	LT	CLP_I077						1																										
D-43A		P.758-P.759	113+39.00	LT	TO	117+52.00	LT	CLP_I077																															1		
D-56		P.758	116+25.00	RT	TO	116+30.00	RT	CLP_I077								1																								
D-56A		P.758-P.759	116+30.00	RT	TO	117+57.00	RT	CLP_I077																				1												
D-57		P.759	117+51.00	RT	TO	117+57.00	RT	CLP_I077								1																								
D-55		P.759	117+52.00	LT	TO	120+00.00	LT	CLP_I077																									1							
D-58		P.759	117+52.00	LT	TO	117+54.00	LT	CLP_I077												1																				
D-57A		P.759	117+57.00	RT	TO	117+74.52	RT	CLP_I077																				1												
D-O1		P.759	117+74.52	RT				CLP_I077																																
D-60		P.759	118+51.00	LT	TO	118+70.76	LT	CLP_I077																																
D-O2		P.759	118+70.76	LT				CLP_I077																																
D-59		P.759	120+00.00	LT	TO	120+14.49	LT	CLP_I077																															1		
D-59A		P.759-P.760	120+14.49	LT	TO	125+78.00	LT	CLP_I077																															1		
D-61		P.760-P.761	125+78.00	LT	TO	129+06.00	LT	CLP_I077																															1		
D-63		P.760	125+78.00	LT	TO	125+78.00	LT	CLP_I077												1																				
D-65		P.761	129+00.00	LT	TO	129+06.00	LT	CLP_I077												1																				
D-64A		P.761	129+06.00	LT	TO	130+65.00	LT	CLP_I077																															1		
D-69		P.761	129+06.00	LT	TO	129+07.00	LT	CLP_I077													1				1															
D-66		P.761	129+77.31	LT	TO	130+65.00	LT	CLP_I077												1					1															
D-70		P.761	129+77.31	LT	TO	130+65.00	LT	CLP_I077													1				1															
D-67		P.761	130+65.00	LT	TO	130+65.00	LT	CLP_I077												1					1															
D-68		P.761	130+65.00	LT	TO	130+65.00	LT	CLP_I077													1				1															
D-64		P.761-P.762	130+65.00	LT	TO	133+71.00	LT	CLP_I077																															1		
D-74		P.762	132+98.96	RT	TO	133+00.00	RT	CLP_I077					1																											
D-76		P.762	132+98.96	RT	TO	134+59.58	RT	CLP_I077					1																											
D-73		P.762	132+98.96	RT	TO	133+00.15	RT	CLP_I077							1																									
D-75		P.762	133+00.00	RT	TO	135+83.00	RT	CLP_I077								1																								
TOTALS CARRIED TO P.741													2	3	3	3		1	6		8			15	3	1			1	1				1	1			1	8	

Preliminary Plans - For Reference Only

DRAINAGE SUBSUMMARY

CUY-77-11.41 - PART 1

MODEL: Sheet 6 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:18 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.729 | TOTAL P.1269

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	602	611	611		611	611	611	611	611	611	611		611	611	611	611	611	611	611		611	611	611	611	611	611	611	611	611	611	611
									CONCRETE MASONRY	6" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	6" CONDUIT, TYPE B, AS PER PLAN 1, 707.65		6" CONDUIT, TYPE C, AS PER PLAN 1, 707.65	8" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	8" CONDUIT, TYPE C, AS PER PLAN 1	12" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	15" CONDUIT, TYPE B, AS PER PLAN 1	15" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	15" CONDUIT, TYPE B, AS PER PLAN 1, 707.65		15" CONDUIT, TYPE B, AS PER PLAN 3	15" CONDUIT, TYPE B, AS PER PLAN 5	15" CONDUIT, TYPE C, AS PER PLAN 1	15" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	15" CONDUIT, TYPE C, AS PER PLAN 1, 707.65	15" CONDUIT, TYPE C, AS PER PLAN 3	15" CONDUIT, TYPE C, AS PER PLAN 4		18" CONDUIT, TYPE B, AS PER PLAN 1	18" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	18" CONDUIT, TYPE B, AS PER PLAN 1, 707.65	18" CONDUIT, TYPE B, AS PER PLAN 2	18" CONDUIT, TYPE C, AS PER PLAN 1	18" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	21" CONDUIT, TYPE B, AS PER PLAN 1	21" CONDUIT, TYPE C, AS PER PLAN 1	24" CONDUIT, TYPE B, AS PER PLAN 1	24" CONDUIT, TYPE C, AS PER PLAN 1	24" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	24" CONDUIT, TYPE C, AS PER PLAN 1, 707.01	27" CONDUIT, TYPE B, AS PER PLAN 1	27" CONDUIT, TYPE C, AS PER PLAN 1
									CY	FT	FT		FT	FT	FT	FT	FT	FT	FT		FT	FT	FT	FT	FT	FT	FT		FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT
D-71A		P.762	133+71.00	LT	TO	134+96.00	LT	CLP_I077																														
D-71B		P.762	134+02.00	LT	TO	134+66.50	LT	CLP_I077																														
D-71C		P.762	134+54.42	LT	TO	134+66.50	LT	CLP_I077																											50	5		
D-76A		P.762	134+57.89	RT	TO	134+59.58	RT	CLP_I077									29																					
D-77		P.762	134+59.58	RT	TO	135+95.27	RT	CLP_I077									136																					
D-71D		P.762	134+66.50	LT	TO	134+96.00	LT	CLP_I077																														
D-71		P.762	134+96.00	LT				CLP_I077																														
D-72		P.762	134+96.00	LT	TO	135+80.00	LT	CLP_I077																														87
D-83		P.762-P.763	135+80.00	LT	TO	138+75.00	LT	CLP_I077																							296							
D-82		P.762	135+80.00	LT	TO	135+80.00	LT	CLP_I077																														
D-81		P.762	135+80.00	LT	TO	135+83.00	RT	CLP_I077																														
D-81A		P.762-P.763	135+83.00	RT	TO	139+00.00	RT	CLP_I077																									317					
D-78		P.762	135+95.27	RT	TO	135+97.56	RT	CLP_I077									29																					
D-80		P.762-P.763	135+95.27	RT	TO	137+59.48	RT	CLP_I077									164																					
D-79		P.763	137+59.48	RT	TO	139+83.44	RT	CLP_I077									228																					
D-84		P.763	138+75.00	LT	TO	141+57.00	LT	CLP_I077																					284									
D-84A		P.763	139+00.00	RT	TO	141+56.00	RT	CLP_I077																					256									
D-85		P.763	141+50.00	LT	TO	141+57.00	LT	CLP_I077														9																
D-87		P.763-P.764	141+56.00	RT	TO	142+72.00	RT	CLP_I077		9																			116									
D-86		P.763-P.764	141+57.00	LT	TO	143+30.00	LT	CLP_I077																							175							
D-94A		P.764	142+72.00	RT	TO	144+25.00	RT	CLP_I077																					152									
D-86A		P.764	143+30.00	LT	TO	143+30.00	LT	CLP_I077														9																
D-88		P.764	143+30.00	LT	TO	146+03.00	LT	CLP_I077																					276									
D-94		P.764	144+25.00	RT	TO	146+03.64	RT	CLP_I077																							180							
D-93		P.764	145+79.78	RT	TO	146+07.19	RT	CLP_I077									19																					
D-95A		P.764	146+03.00	LT	TO	146+07.05	LT	CLP_I077																6														
D-95		P.764	146+03.00	LT	TO	146+07.05	LT	CLP_I077																														
D-96		P.764-P.765	146+03.00	LT	TO	147+90.00	LT	CLP_I077																189														
D-92		P.764	146+03.64	RT	TO	146+07.19	RT	CLP_I077									29																					
D-91		P.764	146+07.19	RT	TO	146+34.94	RT	CLP_I077									27																					
D-90		P.764-P.765	146+34.94	RT	TO	147+74.77	RT	CLP_I077									141																					
D-89		P.765	147+74.77	RT	TO	148+50.00	RT	CLP_I077									75																					
D-97		P.765	147+90.00	LT	TO	150+16.00	LT	CLP_I077																														
D-104		P.765	147+91.30	LT	TO	148+05.00	LT	CLP_I077								16																					
D-98		P.765	150+16.00	LT	TO	150+60.00	LT	CLP_I077																44														
D-101		P.765	150+16.00	LT	TO	150+18.19	LT	CLP_I077									31																					
D-100		P.765	150+18.19	LT	TO	150+61.06	LT	CLP_I077									44																					
D-100A		P.765	150+61.06	LT	TO	150+62.00	LT	CLP_I077														8																
D-102		P.765	150+61.06	LT	TO	150+99.98	LT	CLP_I077									40																					
D-103		P.765-P.766	150+99.98	LT	TO	151+99.41	LT	CLP_I077									100																					
D-163A		P.767	157+55.00	LT	TO	159+90.00	LT	CLP_I077									233																					
D-150		P.767	159+85.00	RT	TO	161+60.00	RT	CLP_I077									178																					
D-163		P.767-P.768	159+90.00	LT	TO	162+50.00	LT	CLP_I077									258																					
D-150A		P.767-P.768	161+60.00	RT	TO	162+50.00	RT	CLP_I077																92														
D-168A		P.768	162+21.00	LT	TO	162+50.00	LT	CLP_I077									30																					
D-157		P.768	162+25.00	RT	TO	162+50.00	RT	CLP_I077									26																					
D-151		P.768	162+50.00	RT	TO	162+50.00	RT	CLP_I077																														
D-156		P.768	162+50.00	RT	TO	162+50.00	LT	CLP_I077																														
D-162		P.768	162+50.00	LT	TO	162+50.00	LT	CLP_I077																														
D-168		P.768	162+50.00	LT	TO	164+70.54	LT	CLP_I077																														
TOTALS CARRIED TO P.739										9						16	1817			26		331				226		1084			175	476		317				50	5		87

Preliminary Plans - For Reference Only

DRAINAGE SUBSUMMARY

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.730 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet 7 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:18 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743400-Engineering\Drainage\Sheets\105743_DS002.dgn

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	611 30" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 30" CONDUIT, TYPE B, AS PER PLAN 2 FT	611 30" CONDUIT, TYPE C, AS PER PLAN 5 FT		611 36" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 36" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 42" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 48" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 48" CONDUIT, TYPE B, AS PER PLAN 2 FT	611 48" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 48" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 54" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 54" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 60" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 60" CONDUIT, TYPE B, AS PER PLAN 2 FT	611 66" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 14" X 23" CONDUIT, TYPE B, 706.04, AS PER PLAN 1 FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 15", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 18", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 21", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 24", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 27", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 30", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 36", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 14" X 23", TYPE B, 706.04 FT	611 CONDUIT, MISC.: 14" X 23" CONDUIT, TYPE C, 706.04, AS PER PLAN 1 FT	611 CONDUIT, MISC.: 24" X 38" CONDUIT, TYPE C, 706.04, AS PER PLAN 1 FT	611 CATCH BASIN, NO. 3A EACH	611 CATCH BASIN, NO. 5 EACH	611 CATCH BASIN, NO. 5, AS PER PLAN EACH	611 CATCH BASIN, NO. 6, AS PER PLAN EACH	611 CATCH BASIN, NO. 8 WITHOUT APRON EACH	611 CATCH BASIN, NO. 2-3 EACH
D-71A		P.762	133+71.00	LT	TO	134+96.00	LT	CLP_I077																133																
D-71B		P.762	134+02.00	LT	TO	134+66.50	LT	CLP_I077																									65				1				
D-71C		P.762	134+54.42	LT	TO	134+66.50	LT	CLP_I077																																
D-76A		P.762	134+57.89	RT	TO	134+59.58	RT	CLP_I077																																
D-77		P.762	134+59.58	RT	TO	135+95.27	RT	CLP_I077																																
D-71D		P.762	134+66.50	LT	TO	134+96.00	LT	CLP_I077																											51						
D-71		P.762	134+96.00	LT				CLP_I077																																
D-72		P.762	134+96.00	LT	TO	135+80.00	LT	CLP_I077																																
D-83		P.762-P.763	135+80.00	LT	TO	138+75.00	LT	CLP_I077																																
D-82		P.762	135+80.00	LT	TO	135+80.00	LT	CLP_I077																								73								
D-81		P.762	135+80.00	LT	TO	135+83.00	RT	CLP_I077																								62								
D-81A		P.762-P.763	135+83.00	RT	TO	139+00.00	RT	CLP_I077																																
D-78		P.762	135+95.27	RT	TO	135+97.56	RT	CLP_I077																																
D-80		P.762-P.763	135+95.27	RT	TO	137+59.48	RT	CLP_I077																																
D-79		P.763	137+59.48	RT	TO	139+83.44	RT	CLP_I077																																
D-84		P.763	138+75.00	LT	TO	141+57.00	LT	CLP_I077																																
D-84A		P.763	139+00.00	RT	TO	141+56.00	RT	CLP_I077																																
D-85		P.763	141+50.00	LT	TO	141+57.00	LT	CLP_I077																																
D-87		P.763-P.764	141+56.00	RT	TO	142+72.00	RT	CLP_I077																																
D-86		P.763-P.764	141+57.00	LT	TO	143+30.00	LT	CLP_I077																																
D-94A		P.764	142+72.00	RT	TO	144+25.00	RT	CLP_I077																																
D-86A		P.764	143+30.00	LT	TO	143+30.00	LT	CLP_I077																															1	
D-88		P.764	143+30.00	LT	TO	146+03.00	LT	CLP_I077																																
D-94		P.764	144+25.00	RT	TO	146+03.64	RT	CLP_I077																																
D-93		P.764	145+79.78	RT	TO	146+07.19	RT	CLP_I077																																
D-95A		P.764	146+03.00	LT	TO	146+07.05	LT	CLP_I077																																
D-95		P.764	146+03.00	LT	TO	146+07.05	LT	CLP_I077																							56								
D-96		P.764-P.765	146+03.00	LT	TO	147+90.00	LT	CLP_I077																																
D-92		P.764	146+03.64	RT	TO	146+07.19	RT	CLP_I077																																
D-91		P.764	146+07.19	RT	TO	146+34.94	RT	CLP_I077																																
D-90		P.764-P.765	146+34.94	RT	TO	147+74.77	RT	CLP_I077																																
D-89		P.765	147+74.77	RT	TO	148+50.00	RT	CLP_I077																																
D-97		P.765	147+90.00	LT	TO	150+16.00	LT	CLP_I077																																
D-104		P.765	147+91.30	LT	TO	148+05.00	LT	CLP_I077																																
D-98		P.765	150+16.00	LT	TO	150+60.00	LT	CLP_I077																															1	
D-101		P.765	150+16.00	LT	TO	150+18.19	LT	CLP_I077																																
D-100		P.765	150+18.19	LT	TO	150+61.06	LT	CLP_I077																																
D-100A		P.765	150+61.06	LT	TO	150+62.00	LT	CLP_I077																																
D-102		P.765	150+61.06	LT	TO	150+99.98	LT	CLP_I077																																
D-103		P.765-P.766	150+99.98	LT	TO	151+99.41	LT	CLP_I077																																
D-163A		P.767	157+55.00	LT	TO	159+90.00	LT	CLP_I077																																
D-150		P.767	159+85.00	RT	TO	161+60.00	RT	CLP_I077																																
D-163		P.767-P.768	159+90.00	LT	TO	162+50.00	LT	CLP_I077																																
D-150A		P.767-P.768	161+60.00	RT	TO	162+50.00	RT	CLP_I077																																
D-168A		P.768	162+21.00	LT	TO	162+50.00	LT	CLP_I077																																
D-157		P.768	162+25.00	RT	TO	162+50.00	RT	CLP_I077																																
D-151		P.768	162+50.00	RT	TO	162+50.00	RT	CLP_I077																																
D-156		P.768	162+50.00	RT	TO	162+50.00	LT	CLP_I077																																
D-162		P.768	162+50.00	LT	TO	162+50.00	LT	CLP_I077	17																															
D-168		P.768	162+50.00	LT	TO	164+70.54	LT	CLP_I077	218																															
TOTALS CARRIED TO P.740									235															133		56		58		135	62			65	51			1		1	1	

Preliminary Plans - For Reference Only

DRAINAGE SUBSUMMARY

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.731 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet 8 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:19 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743400-Engineering\Drainage\Sheets\105743_DS002.dgn

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	611 CATCH BASIN, NO. 2-3 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN, NO. 2-5 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN, NO. 2-6 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN ADJUSTED TO GRADE EACH	611 INLET, NO. 2-A-6 EACH	611 INLET, NO. 2-A-8 EACH	611 INLET, NO. 2-A-10 EACH	611 INLET, NO. 2-A-12 EACH	611 INLET, NO. 2-A-16 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 2 EACH	611 INLET, MISC.: BARRIER INLET SCREEN EACH	611 MANHOLE, NO. 3 EACH	611 MANHOLE, NO. 3 WITH 60" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 72" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 84" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 90" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 96" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 108" BASE I.D. EACH	611 MANHOLE, NO. 5, AS PER PLAN EACH	611 MANHOLE ADJUSTED TO GRADE EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 60" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 72" BASE I.D. WITH BOLTED COVER EACH		611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 90" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 96" BASE I.D. WITH BOLTED COVER EACH	611 DRAINAGE STRUCTURE, MISC.: RESHAPE AND REESTABLISH EXISTING CONNECTION EACH
D-71A		P.762	133+71.00	LT	TO	134+96.00	LT	CLP_I077																																1	
D-71B		P.762	134+02.00	LT	TO	134+66.50	LT	CLP_I077																																	
D-71C		P.762	134+54.42	LT	TO	134+66.50	LT	CLP_I077																						1											
D-76A		P.762	134+57.89	RT	TO	134+59.58	RT	CLP_I077								1																							
D-77		P.762	134+59.58	RT	TO	135+95.27	RT	CLP_I077					1																											
D-71D		P.762	134+66.50	LT	TO	134+96.00	LT	CLP_I077																					1											
D-71		P.762	134+96.00	LT				CLP_I077																									1							
D-72		P.762	134+96.00	LT	TO	135+80.00	LT	CLP_I077																							1								
D-83		P.762-P.763	135+80.00	LT	TO	138+75.00	LT	CLP_I077																				1											
D-82		P.762	135+80.00	LT	TO	135+80.00	LT	CLP_I077										1					1																
D-81		P.762	135+80.00	LT	TO	135+83.00	RT	CLP_I077							1																								
D-81A		P.762-P.763	135+83.00	RT	TO	139+00.00	RT	CLP_I077							1																								
D-78		P.762	135+95.27	RT	TO	135+97.56	RT	CLP_I077									1																						
D-80		P.762-P.763	135+95.27	RT	TO	137+59.48	RT	CLP_I077						1																									
D-79		P.763	137+59.48	RT	TO	139+83.44	RT	CLP_I077						1																									
D-84		P.763	138+75.00	LT	TO	141+57.00	LT	CLP_I077																															1		
D-84A		P.763	139+00.00	RT	TO	141+56.00	RT	CLP_I077							1																								
D-85		P.763	141+50.00	LT	TO	141+57.00	LT	CLP_I077													1								1										
D-87		P.763-P.764	141+56.00	RT	TO	142+72.00	RT	CLP_I077							1																								
D-86		P.763-P.764	141+57.00	LT	TO	143+30.00	LT	CLP_I077																										1					
D-94A		P.764	142+72.00	RT	TO	144+25.00	RT	CLP_I077							1																								
D-86A		P.764	143+30.00	LT	TO	143+30.00	LT	CLP_I077																						1									
D-88		P.764	143+30.00	LT	TO	146+03.00	LT	CLP_I077																															
D-94		P.764	144+25.00	RT	TO	146+03.64	RT	CLP_I077					1																										
D-93		P.764	145+79.78	RT	TO	146+07.19	RT	CLP_I077								1																							
D-95A		P.764	146+03.00	LT	TO	146+07.05	LT	CLP_I077								1																							
D-95		P.764	146+03.00	LT	TO	146+07.05	LT	CLP_I077											1																				
D-96		P.764-P.765	146+03.00	LT	TO	147+90.00	LT	CLP_I077																						1									
D-92		P.764	146+03.64	RT	TO	146+07.19	RT	CLP_I077							1																								
D-91		P.764	146+07.19	RT	TO	146+34.94	RT	CLP_I077								1																							
D-90		P.764-P.765	146+34.94	RT	TO	147+74.77	RT	CLP_I077							1																								
D-89		P.765	147+74.77	RT	TO	148+50.00	RT	CLP_I077								1																							
D-97		P.765	147+90.00	LT	TO	150+16.00	LT	CLP_I077																						1									
D-104		P.765	147+91.30	LT	TO	148+05.00	LT	CLP_I077					1																										
D-98		P.765	150+16.00	LT	TO	150+60.00	LT	CLP_I077																															
D-101		P.765	150+16.00	LT	TO	150+18.19	LT	CLP_I077														1								1									
D-100		P.765	150+18.19	LT	TO	150+61.06	LT	CLP_I077														1								1									
D-100A		P.765	150+61.06	LT	TO	150+62.00	LT	CLP_I077	1																														
D-102		P.765	150+61.06	LT	TO	150+99.98	LT	CLP_I077														1								1									
D-103		P.765-P.766	150+99.98	LT	TO	151+99.41	LT	CLP_I077														1								1									
D-163A		P.767	157+55.00	LT	TO	159+90.00	LT	CLP_I077																					1	1									
D-150		P.767	159+85.00	RT	TO	161+60.00	RT	CLP_I077														1								1									
D-163		P.767-P.768	159+90.00	LT	TO	162+50.00	LT	CLP_I077																					1	1									
D-150A		P.767-P.768	161+60.00	RT	TO	162+50.00	RT	CLP_I077																						1									
D-168A		P.768	162+21.00	LT	TO	162+50.00	LT	CLP_I077	1																														
D-157		P.768	162+25.00	RT	TO	162+50.00	RT	CLP_I077											1											1									
D-151		P.768	162+50.00	RT	TO	162+50.00	RT	CLP_I077																						1									
D-156		P.768	162+50.00	RT	TO	162+50.00	LT	CLP_I077																												1			
D-162		P.768	162+50.00	LT	TO	162+50.00	LT	CLP_I077																												1			
D-168		P.768	162+50.00	LT	TO	164+70.54	LT	CLP_I077																1															
TOTALS CARRIED TO P.741									2				3	2	7	5	1	1	2		6		2	11	7	2	1					1		1	2	1			1		

Preliminary Plans - For Reference Only

DRAINAGE SUBSUMMARY

CUY-77-11.41 - PART 1

MODEL: Sheet 9 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:19 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCExv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743400-Engineering\Drainage\Sheets\105743_DS002.dgn

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.732 TOTAL P.1269

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	602	611	611		611	611	611	611	611	611	611		611	611	611	611	611	611	611		611	611	611	611	611	611	611	611	611	611	611	611	611
									CONCRETE MASONRY	6" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	6" CONDUIT, TYPE B, AS PER PLAN 1, 707.65		6" CONDUIT, TYPE C, AS PER PLAN 1, 707.65	8" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	8" CONDUIT, TYPE C, AS PER PLAN 1	12" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	15" CONDUIT, TYPE B, AS PER PLAN 1	15" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	15" CONDUIT, TYPE B, AS PER PLAN 1, 707.65		15" CONDUIT, TYPE B, AS PER PLAN 3	15" CONDUIT, TYPE B, AS PER PLAN 5	15" CONDUIT, TYPE C, AS PER PLAN 1	15" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	15" CONDUIT, TYPE C, AS PER PLAN 1, 707.65	15" CONDUIT, TYPE C, AS PER PLAN 3	15" CONDUIT, TYPE C, AS PER PLAN 4		18" CONDUIT, TYPE B, AS PER PLAN 1	18" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	18" CONDUIT, TYPE B, AS PER PLAN 1, 707.65	18" CONDUIT, TYPE B, AS PER PLAN 2	18" CONDUIT, TYPE C, AS PER PLAN 1	18" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	21" CONDUIT, TYPE B, AS PER PLAN 1	21" CONDUIT, TYPE C, AS PER PLAN 1	24" CONDUIT, TYPE B, AS PER PLAN 1	24" CONDUIT, TYPE C, AS PER PLAN 1	24" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	24" CONDUIT, TYPE C, AS PER PLAN 1, 707.01	27" CONDUIT, TYPE B, AS PER PLAN 1	27" CONDUIT, TYPE C, AS PER PLAN 1
									CY	FT	FT		FT	FT	FT	FT	FT	FT	FT		FT	FT	FT	FT	FT	FT	FT		FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT
D-151A		P.768	162+50.00	RT	TO	164+70.54	RT	CLP_I077																					224												
D-158A		P.768	162+50.00	RT	TO	163+35.00	RT	CLP_I077																					86												
D-164		P.768	162+50.00	LT	TO	163+35.00	LT	CLP_I077																					85												
D-158		P.768	163+35.00	RT	TO	163+35.00	RT	CLP_I077													6																				
D-159		P.768	163+35.00	RT	TO	164+70.54	RT	CLP_I077																																	
D-165		P.768	163+35.00	LT	TO	164+50.00	LT	CLP_I077																					114												
D-166		P.768	164+50.00	LT	TO	165+25.00	LT	CLP_I077									75																								
D-169		P.768-P.769	164+70.54	LT		167+14.00	LT	CLP_I077																																	
D-152		P.768	164+70.54	RT	TO	165+30.00	RT	CLP_I077																					61												
D-160		P.768	164+70.54	RT	TO	165+64.87	RT	CLP_I077									95																								
D-166A		P.768	165+25.00	LT	TO	165+75.00	LT	CLP_I077									50																								
D-154		P.768	165+30.00	RT	TO	166+27.00	RT	CLP_I077																					98												
D-167		P.768-P.769	165+75.00	LT	TO	167+75.00	LT	CLP_I077									201																								
D-155		P.768-P.769	166+27.00	RT	TO	167+60.00	RT	CLP_I077																																	
D-170		P.769	167+14.00	LT	TO	167+14.00	LT	CLP_I077									13																								
D-170A		P.769	167+14.00	LT	TO	168+86.00	LT	CLP_I077																																	
D-161		P.769	167+60.00	RT	TO	167+70.00	RT	CLP_I077																																	
D-170B		P.769	168+86.00	LT	TO	169+10.82	LT	CLP_I077																																	
DZ-2		P.769	169+10.82	LT				CLP_I077																																	
D-220		P.769	169+78.29	RT	TO	170+60.75	LT	CLP_I077																																	
DZ-3		P.769	170+05.17	LT				CLP_I077																																	
D-220A		P.769	170+60.75	LT				CLP_I077																																	
D-177		P.770	175+27.65	LT	TO	175+35.54	LT	CLP_I077																																	
DZ-4A		P.770	175+32.26	T				CLP_I077																																	
D-178		P.770	175+35.54	LT	TO	175+58.05	LT	CLP_I077																																	
DZ-4B		P.770	175+50.05	LT				CLP_I077																																	
D-179		P.770	175+51.28	LT	TO	175+85.00	LT	CLP_I077																																	
D-180		P.770	175+85.00	LT	TO	176+51.00	LT	CLP_I077																																	
DZ-4		P.770	176+19.99	LT				CLP_I077																																	
DZ-5		P.770	176+38.15	LT				CLP_I077																																	
DZ-6		P.770	176+51.07	LT				CLP_I077																																	
D-181		P.770-P.771	176+51.00	LT	TO	180+00.00	LT	CLP_I077																																	
D-182		P.771-P.772	180+00.00	LT	TO	183+53.00	LT	CLP_I077																																	
D-184		P.772	183+42.06	RT	TO	183+50.00	RT	CLP_I077									61																								
D-183		P.772	183+50.00	RT	TO	183+53.00	LT	CLP_I077																																	
D-183A		P.772	183+53.00	LT	TO	183+53.00	LT	CLP_I077												40																					
D-185		P.772	183+53.00	LT	TO	186+21.00	LT	CLP_I077																																	
DZ-8		P.772	185+12.23	RT				CLP_I077																																	
D-186		P.772-P.773	186+21.00	LT	TO	188+87.00	LT	CLP_I077																																	
D-188		P.773	188+13.30	RT	TO	189+81.15	RT	CLP_I077									164																								
D-187A		P.773	188+87.00	LT	TO	188+91.00	LT	CLP_I077												31																					
D-192		P.773	188+87.00	LT	TO	191+45.00	LT	CLP_I077																																	
D-187		P.773	188+91.00	LT	TO	189+00.00	LT	CLP_I077																																	
D-189A		P.773	189+81.15	RT	TO	191+64.83	RT	CLP_I077									179																								
D-193A		P.773-P.774	191+45.00	LT	TO	193+82.93	LT	CLP_I077																																	
D-189		P.773	191+64.83	RT	TO	191+95.42	RT	CLP_I077									24																								
D-190		P.773-P.774	191+95.42	RT	TO	192+36.22	RT	CLP_I077																					39												
D-191		P.774	192+36.22	RT	TO	192+38.63	RT	CLP_I077																					32												
D-191A		P.774	192+38.63	RT	TO	194+84.50	RT	CLP_I077																								240								
D-193		P.774	193+82.93	LT	TO	193+98.00	LT	CLP_I077																																	
TOTALS CARRIED TO P.739																	862				6		71						739				240								

Preliminary Plans - For Reference Only

DRAINAGE SUBSUMMARY

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.733 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet 10 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:20 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn
sydney.stefanek@trcext.com

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	611 30" CONDUIT, TYPE B, AS PER PLAN 1	611 30" CONDUIT, TYPE B, AS PER PLAN 2	611 30" CONDUIT, TYPE C, AS PER PLAN 5		611 36" CONDUIT, TYPE C, AS PER PLAN 1	611 36" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	611 42" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	611 48" CONDUIT, TYPE B, AS PER PLAN 1	611 48" CONDUIT, TYPE B, AS PER PLAN 2	611 48" CONDUIT, TYPE C, AS PER PLAN 1	611 48" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	611 54" CONDUIT, TYPE B, AS PER PLAN 1	611 54" CONDUIT, TYPE C, AS PER PLAN 1	611 60" CONDUIT, TYPE B, AS PER PLAN 1	611 60" CONDUIT, TYPE B, AS PER PLAN 2	611 66" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	611 14" X 23" CONDUIT, TYPE B, 706.04, AS PER PLAN 1	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 15", TYPE B	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 18", TYPE B	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 21", TYPE B	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 24", TYPE B	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 27", TYPE B	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 30", TYPE B	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 36", TYPE B	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 14" X 23", TYPE B, 706.04	611 CONDUIT, MISC.: 14" X 23" CONDUIT, TYPE C, 706.04, AS PER PLAN 1	611 CONDUIT, MISC.: 24" X 38" CONDUIT, TYPE C, 706.04, AS PER PLAN 1	611 CATCH BASIN, NO. 3A	611 CATCH BASIN, NO. 5	611 CATCH BASIN, NO. 5, AS PER PLAN	611 CATCH BASIN, NO. 6, AS PER PLAN	611 CATCH BASIN, NO. 8 WITHOUT APRON	611 CATCH BASIN, NO. 2-3	
									FT	FT	FT		FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT		EACH	EACH	EACH	EACH	EACH	EACH	
D-151A		P.768	162+50.00	RT	TO	164+70.54	RT	CLP_I077																																
D-158A		P.768	162+50.00	RT	TO	163+35.00	RT	CLP_I077																																
D-164		P.768	162+50.00	LT	TO	163+35.00	LT	CLP_I077																														1		
D-158		P.768	163+35.00	RT	TO	163+35.00	RT	CLP_I077																																
D-159		P.768	163+35.00	RT	TO	164+70.54	RT	CLP_I077																				136												
D-165		P.768	163+35.00	LT	TO	164+50.00	LT	CLP_I077																														1		
D-166		P.768	164+50.00	LT	TO	165+25.00	LT	CLP_I077																														1		
D-169		P.768-P.769	164+70.54	LT		167+14.00	LT	CLP_I077	243																															
D-152		P.768	164+70.54	RT	TO	165+30.00	RT	CLP_I077																																
D-160		P.768	164+70.54	RT	TO	165+64.87	RT	CLP_I077																																
D-166A		P.768	165+25.00	LT	TO	165+75.00	LT	CLP_I077																														1		
D-154		P.768	165+30.00	RT	TO	166+27.00	RT	CLP_I077																																
D-167		P.768-P.769	165+75.00	LT	TO	167+75.00	LT	CLP_I077																														1		
D-155		P.768-P.769	166+27.00	RT	TO	167+60.00	RT	CLP_I077																				133												
D-170		P.769	167+14.00	LT	TO	167+14.00	LT	CLP_I077																																
D-170A		P.769	167+14.00	LT	TO	168+86.00	LT	CLP_I077	172																															
D-161		P.769	167+60.00	RT	TO	167+70.00	RT	CLP_I077																																
D-170B		P.695	168+86.00	LT	TO	169+10.82	LT	CLP_I077			89																													
DZ-2		P.695	169+10.82	LT				CLP_I077																																
D-220		P.695	169+78.29	RT	TO	170+60.75	LT	CLP_I077																				117												
DZ-3		P.695	170+05.17	LT				CLP_I077																																
D-220A		P.695	170+60.75	LT				CLP_I077																																
D-177		P.770	175+27.65	LT	TO	175+35.54	LT	CLP_I077								8																							
DZ-4A		P.770	175+32.26	T				CLP_I077																																
D-178		P.770	175+35.54	LT	TO	175+58.05	LT	CLP_I077								10																							
DZ-4B		P.770	175+50.05	LT				CLP_I077																																
D-179		P.770	175+51.28	LT	TO	175+85.00	LT	CLP_I077									40																						
D-180		P.770	175+85.00	LT	TO	176+51.00	LT	CLP_I077																																
DZ-4		P.770	176+19.99	LT				CLP_I077																																
DZ-5		P.770	176+38.15	LT				CLP_I077																																
DZ-6		P.770	176+51.07	LT				CLP_I077																																
D-181		P.770-P.771	176+51.00	LT	TO	180+00.00	LT	CLP_I077																																
D-182		P.771-P.772	180+00.00	LT	TO	183+53.00	LT	CLP_I077																																
D-184		P.772	183+42.06	RT	TO	183+50.00	RT	CLP_I077																																
D-183		P.772	183+50.00	RT	TO	183+53.00	LT	CLP_I077																																
D-183A		P.772	183+53.00	LT	TO	183+53.00	LT	CLP_I077																																
D-185		P.772	183+53.00	LT	TO	186+21.00	LT	CLP_I077																																
DZ-8		P.772	185+12.23	RT				CLP_I077																																
D-186		P.772-P.773	186+21.00	LT	TO	188+87.00	LT	CLP_I077																																
D-188		P.773	188+13.30	RT	TO	189+81.15	RT	CLP_I077																																
D-187A		P.773	188+87.00	LT	TO	188+91.00	LT	CLP_I077																																
D-192		P.773	188+87.00	LT	TO	191+45.00	LT	CLP_I077																																
D-187		P.773	188+91.00	LT	TO	189+00.00	LT	CLP_I077																				87												
D-189A		P.773	189+81.15	RT	TO	191+64.83	RT	CLP_I077																																
D-193A		P.773-P.774	191+45.00	LT	TO	193+82.93	LT	CLP_I077																																
D-189		P.773	191+64.83	RT	TO	191+95.42	RT	CLP_I077																																
D-190		P.773-P.774	191+95.42	RT	TO	192+36.22	RT	CLP_I077																																
D-191		P.774	192+36.22	RT	TO	192+38.63	RT	CLP_I077																																
D-191A		P.774	192+38.63	RT	TO	194+84.50	RT	CLP_I077																																
D-193		P.774	193+82.93	LT	TO	193+98.00	LT	CLP_I077									75																						
TOTALS CARRIED TO P.740									415		89					18	115		1832	8						133	424						55				5			

Preliminary Plans - For Reference Only

DRAINAGE SUBSUMMARY

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.734 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet 11 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:20 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	611 CATCH BASIN, NO. 2-3 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN, NO. 2-5 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN, NO. 2-6 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN ADJUSTED TO GRADE EACH	611 INLET, NO. 2-A-6 EACH	611 INLET, NO. 2-A-8 EACH	611 INLET, NO. 2-A-10 EACH	611 INLET, NO. 2-A-12 EACH	611 INLET, NO. 2-A-16 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 2 EACH	611 INLET, MISC.: BARRIER INLET SCREEN EACH	611 MANHOLE, NO. 3 EACH	611 MANHOLE, NO. 3 WITH 60" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 72" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 84" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 90" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 96" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 108" BASE I.D. EACH	611 MANHOLE, NO. 5, AS PER PLAN EACH	611 MANHOLE ADJUSTED TO GRADE EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 60" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 72" BASE I.D. WITH BOLTED COVER EACH		611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 90" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 96" BASE I.D. WITH BOLTED COVER EACH	611 DRAINAGE STRUCTURE, MISC.: RESHAPE AND REESTABLISH EXISTING CONNECTION EACH		
D-151A		P.768	162+50.00	RT	TO	164+70.54	RT	CLP_I077																								1									
D-158A		P.768	162+50.00	RT	TO	163+35.00	RT	CLP_I077																								1									
D-164		P.768	162+50.00	LT	TO	163+35.00	LT	CLP_I077																																	
D-158		P.768	163+35.00	RT	TO	163+35.00	RT	CLP_I077											1					1																	
D-159		P.768	163+35.00	RT	TO	164+70.54	RT	CLP_I077											1					1																	
D-165		P.768	163+35.00	LT	TO	164+50.00	LT	CLP_I077																																	
D-166		P.768	164+50.00	LT	TO	165+25.00	LT	CLP_I077																																	
D-169		P.768-P.769	164+70.54	LT		167+14.00	LT	CLP_I077																	1															
D-152		P.768	164+70.54	RT	TO	165+30.00	RT	CLP_I077														1			1															
D-160		P.768	164+70.54	RT	TO	165+64.87	RT	CLP_I077										1							1															
D-166A		P.768	165+25.00	LT	TO	165+75.00	LT	CLP_I077																																	
D-154		P.768	165+30.00	RT	TO	166+27.00	RT	CLP_I077														1			1															
D-167		P.768-P.769	165+75.00	LT	TO	167+75.00	LT	CLP_I077																																	
D-155		P.768-P.769	166+27.00	RT	TO	167+60.00	RT	CLP_I077														1			1															
D-170		P.769	167+14.00	LT	TO	167+14.00	LT	CLP_I077	1																															
D-170A		P.769	167+14.00	LT	TO	168+86.00	LT	CLP_I077																																	
D-161		P.769	167+60.00	RT	TO	167+70.00	RT	CLP_I077										1							1															
D-170B		P.695	168+86.00	LT	TO	169+10.82	LT	CLP_I077																	1															
DZ-2		P.695	169+10.82	LT				CLP_I077																																	
D-220		P.695	169+78.29	RT	TO	170+60.75	LT	CLP_I077	1																															
DZ-3		P.695	170+05.17	LT				CLP_I077																																	
D-220A		P.695	170+60.75	LT				CLP_I077																																	
D-177		P.770	175+27.65	LT	TO	175+35.54	LT	CLP_I077																																	
DZ-4A		P.770	175+32.26	T				CLP_I077																																	
D-178		P.770	175+35.54	LT	TO	175+58.05	LT	CLP_I077																																	
DZ-4B		P.770	175+50.05	LT				CLP_I077																																	
D-179		P.770	175+51.28	LT	TO	175+85.00	LT	CLP_I077																																	
D-180		P.770	175+85.00	LT	TO	176+51.00	LT	CLP_I077																																	
DZ-4		P.770	176+19.99	LT				CLP_I077																																	
DZ-5		P.770	176+38.15	LT				CLP_I077																																	
DZ-6		P.770	176+51.07	LT				CLP_I077																																	
D-181		P.770-P.771	176+51.00	LT	TO	180+00.00	LT	CLP_I077																																	
D-182		P.771-P.772	180+00.00	LT	TO	183+53.00	LT	CLP_I077																																	
D-184		P.772	183+42.06	RT	TO	183+50.00	RT	CLP_I077																																	
D-183		P.772	183+50.00	RT	TO	183+53.00	LT	CLP_I077																																	
D-183A		P.772	183+53.00	LT	TO	183+53.00	LT	CLP_I077																																	
D-185		P.772	183+53.00	LT	TO	186+21.00	LT	CLP_I077																																	
DZ-8		P.772	185+12.23	RT				CLP_I077																																	
D-186		P.772-P.773	186+21.00	LT	TO	188+87.00	LT	CLP_I077																																	
D-188		P.773	188+13.30	RT	TO	189+81.15	RT	CLP_I077																																	
D-187A		P.773	188+87.00	LT	TO	188+91.00	LT	CLP_I077																																	
D-192		P.773	188+87.00	LT	TO	191+45.00	LT	CLP_I077																																	
D-187		P.773	188+91.00	LT	TO	189+00.00	LT	CLP_I077																																	
D-189A		P.773	189+81.15	RT	TO	191+64.83	RT	CLP_I077																																	
D-193A		P.773-P.774	191+45.00	LT	TO	193+82.93	LT	CLP_I077																																	
D-189		P.773	191+64.83	RT	TO	191+95.42	RT	CLP_I077																																	
D-190		P.773-P.774	191+95.42	RT	TO	192+36.22	RT	CLP_I077																																	
D-191		P.774	192+36.22	RT	TO	192+38.63	RT	CLP_I077																																	
D-191A		P.774	192+38.63	RT	TO	194+84.50	RT	CLP_I077																																	
D-193		P.774	193+82.93	LT	TO	193+98.00	LT	CLP_I077																																	
TOTALS CARRIED TO P.741									2	4	2	2		1	4			2	5		3			10	6		1	4				6	2					1			

Preliminary Plans - For Reference Only

DRAINAGE SUBSUMMARY

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.735 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet 12 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:20 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn

DRAINAGE SUBSUMMARY

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	602	611	611		611	611	611	611	611	611	611		611	611	611	611	611	611	611		611	611	611	611	611	611	611	611	611	611	611	611	611
									CONCRETE MASONRY	6" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	6" CONDUIT, TYPE B, AS PER PLAN 1, 707.65		6" CONDUIT, TYPE C, AS PER PLAN 1, 707.65	8" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	8" CONDUIT, TYPE C, AS PER PLAN 1	12" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	15" CONDUIT, TYPE B, AS PER PLAN 1	15" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	15" CONDUIT, TYPE B, AS PER PLAN 1, 707.65		15" CONDUIT, TYPE B, AS PER PLAN 3	15" CONDUIT, TYPE B, AS PER PLAN 5	15" CONDUIT, TYPE C, AS PER PLAN 1	15" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	15" CONDUIT, TYPE C, AS PER PLAN 1, 707.65	15" CONDUIT, TYPE C, AS PER PLAN 3	15" CONDUIT, TYPE C, AS PER PLAN 4		18" CONDUIT, TYPE B, AS PER PLAN 1	18" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	18" CONDUIT, TYPE B, AS PER PLAN 1, 707.65	18" CONDUIT, TYPE B, AS PER PLAN 2	18" CONDUIT, TYPE C, AS PER PLAN 1	18" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	21" CONDUIT, TYPE B, AS PER PLAN 1	21" CONDUIT, TYPE C, AS PER PLAN 1	24" CONDUIT, TYPE B, AS PER PLAN 1	24" CONDUIT, TYPE C, AS PER PLAN 1	24" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	24" CONDUIT, TYPE C, AS PER PLAN 1, 707.01	27" CONDUIT, TYPE B, AS PER PLAN 1	27" CONDUIT, TYPE C, AS PER PLAN 1
									CY	FT	FT		FT	FT	FT	FT	FT	FT	FT		FT	FT	FT	FT	FT	FT	FT		FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT
D-194		P.774	193+98.00	LT	TO	194+00.00	LT	CLP_I077																																	
D-195		P.774	193+98.00	LT	TO	196+89.00	LT	CLP_I077																																	
DZ-10		P.774	194+78.22	RT				CLP_I077																																	
DZ-9		P.774	194+78.90	RT				CLP_I077																																	
D-198		P.774	194+84.50	RT	TO	196+50.50	RT	CLP_I077											9																						
DZ-11		P.774	194+93.12	RT				CLP_I077																																	
D-197		P.774-P.775	196+50.50	RT	TO	199+19.01	RT	CLP_I077																																	
D-201		P.774-P.775	196+89.00	LT	TO	199+20.00	LT	CLP_I077																																	
D-199		P.774-P.775	196+89.00	LT	TO	197+00.00	LT	CLP_I077									24																								
D-200		P.774-P.775	197+00.00	LT	TO	197+09.04	LT	CLP_I077															59		6																
D-210		P.775	199+18.00	LT	TO	199+20.00	LT	CLP_I077													10																			
D-205		P.775	199+19.01	RT	TO	199+20.00	LT	CLP_I077																																	
D-206		P.775	199+19.01	RT	TO	200+35.09	RT	CLP_I077																																	
D-202		P.775	199+20.00	LT	TO	199+20.00	LT	CLP_I077																																	
D-203		P.775	199+20.00	LT	TO	200+17.51	LT	CLP_I077									98																								
D-211		P.775	199+20.00	LT	TO	200+16.50	LT	CLP_I077					5																												98	
D-212E		P.775	199+98.00	LT	TO	200+19.50	LT	CLP_I077									15																								
D-212		P.775	200+16.50	LT	TO	200+19.50	LT	CLP_I077																		7														
D-213		P.775	200+16.50	LT	TO	201+19.00	LT	CLP_I077																																	103
D-212D		P.775	200+19.50	LT	TO	200+42.00	LT	CLP_I077									24																								
D-207		P.775-P.776	200+35.09	RT	TO	202+16.94	RT	CLP_I077																																	
D-204		P.775	201+15.00	LT	TO	201+22.00	LT	CLP_I077																																	
D-214		P.775	201+19.00	LT	TO	201+22.00	LT	CLP_I077																		6														
D-215		P.775-P.776	201+19.00	LT	TO	203+01.34	LT	CLP_I077									10								10																
D-208		P.776	202+16.94	RT	TO	204+88.77	RT	CLP_I077																274																
D-215C		P.776	203+01.34	LT	TO	203+04.00	LT	CLP_I077																		6														
DZ-12		P.776	204+35.96	LT				CLP_I077																																	
D-209		P.776	204+88.77	RT	TO	204+98.00	RT	CLP_I077										56																						
DZ-13		P.777	208+72.32	LT				CLP_I077																																	
D-405		P.777	210+31.50	LT	TO	210+35.78	LT	CLP_I077			6												3																	
DZ-14		P.777	210+35.78	LT				CLP_I077																																	
D-399		P.777	211+57.40	LT	TO	211+77.53	LT	CLP_I077			10								11																						
DZ-15		P.778	212+04.33	LT				CLP_I077																																	
DZ-16		P.778	212+08.64	LT				CLP_I077																																	
DZ-17		P.778	213+34.80	LT				CLP_I077																																	
DZ-18		P.778	213+42.14	LT				CLP_I077																																	
DZ-19		P.778	214+38.68	LT				CLP_I077																																	
D-400		P.778	214+66.00	RT	TO	215+55.00	RT	CLP_I077									90																								
DZ-20		P.778	215+11.70	LT				CLP_I077																																	
DZ-21		P.778	215+33.24	LT				CLP_I077																																	
DZ-21A		P.778	215+39.02					CLP_I077																																	
D-404		P.778	215+51.48	LT	TO	215+55.00	LT	CLP_I077											11																						
D-401		P.778	215+55.00	RT	TO	215+55.00	LT	CLP_I077									9																								
DZ-22		P.778	215+62.50	LT				CLP_I077																																	
DZ-23		P.778	216+13.50	LT				CLP_I077																																	
DZ-24		P.778	216+41.32	LT				CLP_I077																																	
DZ-25		P.778	216+76.31	LT				CLP_I077																																	
DZ-26		P.779	217+28.28	LT				CLP_I077																																	
DZ-27		P.779	217+42.37	LT				CLP_I077																																	
TOTALS CARRIED TO P.739											16		5				260	56	32		10	3	59	283	16	19				17	11			300				183	432		98	103

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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user.sydney.stefanek@trcnet.com

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.736 | TOTAL P.1269

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	611 30" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 30" CONDUIT, TYPE B, AS PER PLAN 2 FT	611 30" CONDUIT, TYPE C, AS PER PLAN 5 FT		611 36" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 36" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 42" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 48" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 48" CONDUIT, TYPE B, AS PER PLAN 2 FT	611 48" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 48" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 54" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 54" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 60" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 60" CONDUIT, TYPE B, AS PER PLAN 2 FT	611 66" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 14" X 23" CONDUIT, TYPE B, 706.04, AS PER PLAN 1 FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 15", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 18", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 21", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 24", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 27", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 30", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 36", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 14" X 23", TYPE B, 706.04 FT	611 CONDUIT, MISC.: 14" X 23" CONDUIT, TYPE C, 706.04, AS PER PLAN 1 FT	611 CONDUIT, MISC.: 24" X 38" CONDUIT, TYPE C, 706.04, AS PER PLAN 1 FT	611 CATCH BASIN, NO. 3A EACH	611 CATCH BASIN, NO. 5 EACH	611 CATCH BASIN, NO. 5, AS PER PLAN EACH	611 CATCH BASIN, NO. 6, AS PER PLAN EACH	611 CATCH BASIN, NO. 8 WITHOUT APRON EACH	611 CATCH BASIN, NO. 2-3 EACH
D-194		P.774	193+98.00	LT	TO	194+00.00	LT	CLP_I077																				65													
D-195		P.774	193+98.00	LT	TO	196+89.00	LT	CLP_I077								297																									
DZ-10		P.774	194+78.22	RT				CLP_I077																																	
DZ-9		P.774	194+78.90	RT				CLP_I077																																	
D-198		P.774	194+84.50	RT	TO	196+50.50	RT	CLP_I077																																	
DZ-11		P.774	194+93.12	RT				CLP_I077																																	
D-197		P.774-P.775	196+50.50	RT	TO	199+19.01	RT	CLP_I077																																1	
D-201		P.774-P.775	196+89.00	LT	TO	199+20.00	LT	CLP_I077									231																							
D-199		P.774-P.775	196+89.00	LT	TO	197+00.00	LT	CLP_I077																																1	
D-200		P.774-P.775	197+00.00	LT	TO	197+09.04	LT	CLP_I077																																	
D-210		P.775	199+18.00	LT	TO	199+20.00	LT	CLP_I077																																	
D-205		P.775	199+19.01	RT	TO	199+20.00	LT	CLP_I077																																76	
D-206		P.775	199+19.01	RT	TO	200+35.09	RT	CLP_I077																																1	
D-202		P.775	199+20.00	LT	TO	199+20.00	LT	CLP_I077																																48	
D-203		P.775	199+20.00	LT	TO	200+17.51	LT	CLP_I077																																	
D-211		P.775	199+20.00	LT	TO	200+16.50	LT	CLP_I077																																	
D-212E		P.775	199+98.00	LT	TO	200+19.50	LT	CLP_I077																																	
D-212		P.775	200+16.50	LT	TO	200+19.50	LT	CLP_I077																																	
D-213		P.775	200+16.50	LT	TO	201+19.00	LT	CLP_I077																																	
D-212D		P.775	200+19.50	LT	TO	200+42.00	LT	CLP_I077																																	
D-207		P.775-P.776	200+35.09	RT	TO	202+16.94	RT	CLP_I077																																1	
D-204		P.775	201+15.00	LT	TO	201+22.00	LT	CLP_I077																				57												
D-214		P.775	201+19.00	LT	TO	201+22.00	LT	CLP_I077																																	
D-215		P.775-P.776	201+19.00	LT	TO	203+01.34	LT	CLP_I077																																	
D-208		P.776	202+16.94	RT	TO	204+88.77	RT	CLP_I077																																1	
D-215C		P.776	203+01.34	LT	TO	203+04.00	LT	CLP_I077																																	
DZ-12		P.776	204+35.96	LT				CLP_I077																																	
D-209		P.776	204+88.77	RT	TO	204+98.00	RT	CLP_I077																																1	
DZ-13		P.777	208+72.32	LT				CLP_I077																																	
D-405		P.777	210+31.50	LT	TO	210+35.78	LT	CLP_I077																																	
DZ-14		P.777	210+35.78	LT				CLP_I077																																	
D-399		P.777	211+57.40	LT	TO	211+77.53	LT	CLP_I077																																	
DZ-15		P.778	212+04.33	LT				CLP_I077																																	
DZ-16		P.778	212+08.64	LT				CLP_I077																																	
DZ-17		P.778	213+34.80	LT				CLP_I077																																	
DZ-18		P.778	213+42.14	LT				CLP_I077																																	
DZ-19		P.778	214+38.68	LT				CLP_I077																																	
D-400		P.778	214+66.00	RT	TO	215+55.00	RT	CLP_I077																																	
DZ-20		P.778	215+11.70	LT				CLP_I077																																	
DZ-21		P.778	215+33.24	LT				CLP_I077																																	
DZ-21A		P.778	215+39.02					CLP_I077																																	
D-404		P.778	215+51.48	LT	TO	215+55.00	LT	CLP_I077																																	
D-401		P.778	215+55.00	RT	TO	215+55.00	LT	CLP_I077																																	
DZ-22		P.778	215+62.50	LT				CLP_I077																																	
DZ-23		P.778	216+13.50	LT				CLP_I077																																	
DZ-24		P.778	216+41.32	LT				CLP_I077																																	
DZ-25		P.778	216+76.31	LT				CLP_I077																																	
DZ-26		P.779	217+28.28	LT				CLP_I077																																	
DZ-27		P.779	217+42.37	LT				CLP_I077																																	
TOTALS CARRIED TO P.740																297	231											122					124						6					

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1
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sydney.stefanek@trcext.com

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.737 TOTAL P.1269

DRAINAGE SUBSUMMARY

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	611 CATCH BASIN, NO. 2-3 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN, NO. 2-5 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN, NO. 2-6 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN ADJUSTED TO GRADE EACH	611 INLET, NO. 2-A-6 EACH	611 INLET, NO. 2-A-8 EACH	611 INLET, NO. 2-A-10 EACH	611 INLET, NO. 2-A-12 EACH	611 INLET, NO. 2-A-16 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 2 EACH	611 INLET, MISC.: BARRIER INLET SCREEN EACH	611 MANHOLE, NO. 3 EACH	611 MANHOLE, NO. 3 WITH 60" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 72" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 84" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 90" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 96" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 108" BASE I.D. EACH	611 MANHOLE, NO. 5, AS PER PLAN EACH	611 MANHOLE ADJUSTED TO GRADE EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 60" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 72" BASE I.D. WITH BOLTED COVER EACH		611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 90" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 96" BASE I.D. WITH BOLTED COVER EACH	611 DRAINAGE STRUCTURE, MISC.: RESHAPE AND REESTABLISH EXISTING CONNECTION EACH
D-194		P.774	193+98.00	LT	TO	194+00.00	LT	CLP_I077											1						1																
D-195		P.774	193+98.00	LT	TO	196+89.00	LT	CLP_I077																											1						
DZ-10		P.774	194+78.22	RT				CLP_I077																										1						
DZ-9		P.774	194+78.90	RT				CLP_I077																										1						
D-198		P.774	194+84.50	RT	TO	196+50.50	RT	CLP_I077																1																
DZ-11		P.774	194+93.12	RT				CLP_I077																										1						
D-197		P.774-P.775	196+50.50	RT	TO	199+19.01	RT	CLP_I077																																
D-201		P.774-P.775	196+89.00	LT	TO	199+20.00	LT	CLP_I077																											1					
D-199		P.774-P.775	196+89.00	LT	TO	197+00.00	LT	CLP_I077																																
D-200		P.774-P.775	197+00.00	LT	TO	197+09.04	LT	CLP_I077																1																
D-210		P.775	199+18.00	LT	TO	199+20.00	LT	CLP_I077							1																									
D-205		P.775	199+19.01	RT	TO	199+20.00	LT	CLP_I077																	1														
D-206		P.775	199+19.01	RT	TO	200+35.09	RT	CLP_I077																																
D-202		P.775	199+20.00	LT	TO	199+20.00	LT	CLP_I077										1						1																
D-203		P.775	199+20.00	LT	TO	200+17.51	LT	CLP_I077										1						1																
D-211		P.775	199+20.00	LT	TO	200+16.50	LT	CLP_I077																	1														
D-212E		P.775	199+98.00	LT	TO	200+19.50	LT	CLP_I077							1																									
D-212		P.775	200+16.50	LT	TO	200+19.50	LT	CLP_I077							1																									
D-213		P.775	200+16.50	LT	TO	201+19.00	LT	CLP_I077																	1														
D-212D		P.775	200+19.50	LT	TO	200+42.00	LT	CLP_I077						1																									
D-207		P.775-P.776	200+35.09	RT	TO	202+16.94	RT	CLP_I077																																
D-204		P.775	201+15.00	LT	TO	201+22.00	LT	CLP_I077										1						1																
D-214		P.775	201+19.00	LT	TO	201+22.00	LT	CLP_I077							1																									
D-215		P.775-P.776	201+19.00	LT	TO	203+01.34	LT	CLP_I077																	1														
D-208		P.776	202+16.94	RT	TO	204+88.77	RT	CLP_I077																																
D-215C		P.776	203+01.34	LT	TO	203+04.00	LT	CLP_I077						1																									
DZ-12		P.776	204+35.96	LT				CLP_I077				1																												
D-209		P.776	204+88.77	RT	TO	204+98.00	RT	CLP_I077																																
DZ-13		P.777	208+72.32	LT				CLP_I077				1																												
D-405		P.777	210+31.50	LT	TO	210+35.78	LT	CLP_I077							1																									
DZ-14		P.777	210+35.78	LT				CLP_I077				1																												
D-399		P.777	211+57.40	LT	TO	211+77.53	LT	CLP_I077																																
DZ-15		P.778	212+04.33	LT				CLP_I077																																
DZ-16		P.778	212+08.64	LT				CLP_I077																																
DZ-17		P.778	213+34.80	LT				CLP_I077																																
DZ-18		P.778	213+42.14	LT				CLP_I077																																
DZ-19		P.778	214+38.68	LT				CLP_I077				1																												
D-400		P.778	214+66.00	RT	TO	215+55.00	RT	CLP_I077											1					1																
DZ-20		P.778	215+11.70	LT				CLP_I077				1																												
DZ-21		P.778	215+33.24	LT				CLP_I077																																
DZ-21A		P.778	215+39.02					CLP_I077				1																												
D-404		P.778	215+51.48	LT	TO	215+55.00	LT	CLP_I077													1			1																
D-401		P.778	215+55.00	RT	TO	215+55.00	LT	CLP_I077													1			1																
DZ-22		P.778	215+62.50	LT				CLP_I077				1																												
DZ-23		P.778	216+13.50	LT				CLP_I077				1																												
DZ-24		P.778	216+41.32	LT				CLP_I077				1																												
DZ-25		P.778	216+76.31	LT				CLP_I077																																
DZ-26		P.779	217+28.28	LT				CLP_I077																																
DZ-27		P.779	217+42.37	LT				CLP_I077				1																												
TOTALS CARRIED TO P.741												10		2	5			3	2		2			7	2	4					1		10			2					

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: Sheet 15 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:21 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn

DESIGN AGENCY
AECOM

DESIGNER SMS

REVIEWER AKM 05/01/26

PROJECT ID 105743

SHEET P.738 | TOTAL P.1269

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	602	611	611		611	611	611	611	611	611	611		611	611	611	611	611	611	611		611	611	611	611	611	611	611	611	611	611	611	611	611	611
									CONCRETE MASONRY	6" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	6" CONDUIT, TYPE B, AS PER PLAN 1, 707.65		6" CONDUIT, TYPE C, AS PER PLAN 1, 707.65	8" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	8" CONDUIT, TYPE C, AS PER PLAN 1	12" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	15" CONDUIT, TYPE B, AS PER PLAN 1	15" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	15" CONDUIT, TYPE B, AS PER PLAN 1, 707.65		15" CONDUIT, TYPE B, AS PER PLAN 3	15" CONDUIT, TYPE B, AS PER PLAN 5	15" CONDUIT, TYPE C, AS PER PLAN 1	15" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	15" CONDUIT, TYPE C, AS PER PLAN 1, 707.65	15" CONDUIT, TYPE C, AS PER PLAN 3	15" CONDUIT, TYPE C, AS PER PLAN 4		18" CONDUIT, TYPE B, AS PER PLAN 1	18" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	18" CONDUIT, TYPE B, AS PER PLAN 1, 707.65	18" CONDUIT, TYPE B, AS PER PLAN 2	18" CONDUIT, TYPE C, AS PER PLAN 1	18" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	21" CONDUIT, TYPE B, AS PER PLAN 1	21" CONDUIT, TYPE C, AS PER PLAN 1	24" CONDUIT, TYPE B, AS PER PLAN 1	24" CONDUIT, TYPE C, AS PER PLAN 1	24" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	24" CONDUIT, TYPE C, AS PER PLAN 1, 707.01	27" CONDUIT, TYPE B, AS PER PLAN 1	27" CONDUIT, TYPE C, AS PER PLAN 1
									CY	FT	FT		FT	FT	FT	FT	FT	FT		FT	FT	FT	FT	FT	FT	FT		FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT
DZ-28		P.779	218+44.05	LT				CLP_I077																																
DZ-29		P.779	218+68.32	RT				CLP_I077																																
DZ-30		P.779	219+10.78	LT				CLP_I077																																
DZ-31		P.779	219+47.00	LT				CLP_I077																																
D-403		P.779	220+60.41	RT	TO	220+66.89	LT	CLP_I077								11																							
D-408		P.780	223+54.84	RT	TO	223+68.54	LT	CLP_I077			20					10																							
D-110		P.781	300+11.25	RT	TO	300+15.60	RT	BLP_R283A3								5																							
DZ-1		P.781	300+73.08	LT				BLP_R283A3																																
D-1		P.781	301+45.41	LT	TO	302+05.00	LT	BLP_R283A3								11																					50	11		
D-2		P.781	301+65.56	LT	TO	302+05.00	LT	BLP_R283A3									36																						
D-2A		P.781	302+05.00	LT	TO	302+13.18	RT	BLP_R283A3																												77				
D-11		P.782	304+50.00	LT	TO	304+69.01	RT	BLP_R283A3									54																						
D-111		P.783	400+46.58	LT	TO	400+51.31	LT	BLP_R283A4								5																							
D-47B		P.785	109+10.00	RT	TO	109+12.60	RT	BLP_R043B1								8																							
D-O5		P.787	112+09.35	RT				BLP_R043E1	0.27																															
D-208A		P.787	112+09.35	RT	TO	112+36.00	RT	BLP_R043E1									47																						
TOTALS CARRIED FROM THIS SHEET									0.27		20					50	137																	77	50	11			
TOTALS CARRIED FROM P.724														8	22	31	1052				56		61			8								10	27				
TOTALS CARRIED FROM P.727									0.54								971				91		206										285			372				
TOTALS CARRIED FROM P.730										9						16	1817				26		331				226		1084			175	476		317			50	5		87
TOTALS CARRIED FROM P.733																	862				6		71						739				240							
TOTALS CARRIED FROM P.736											16		5				260	56	32		10	3	59	283	16	19				17	11			300			183	432		98	103
TOTALS CARRIED TO GENERAL SUMMARY									0.81	9	36		5	8	22	97	5099	56	32		189	3	728	283	16	27	226		1823	17	11	460	716	300	317	372	87	260	493	5	98	190

Preliminary Plans - For Reference Only

DRAINAGE SUBSUMMARY

CUY-77-11.41 - PART 1

MODEL: Sheet 16 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:22 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn

DESIGN AGENCY

AECOM

DESIGNER	SMS
REVIEWER	AKM 05/01/26
PROJECT ID	105743
SHEET	P.739
TOTAL	P.1269

| REF NO. | CFN NO. | SHEET NO. | STATION TO STATION | | | | | ALIGNMENT | 611 30" CONDUIT, TYPE B, AS PER PLAN 1 FT | 611 30" CONDUIT, TYPE B, AS PER PLAN 2 FT | 611 30" CONDUIT, TYPE C, AS PER PLAN 5 FT | | 611 36" CONDUIT, TYPE C, AS PER PLAN 1 FT | 611 36" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT | 611 42" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT | 611 48" CONDUIT, TYPE B, AS PER PLAN 1 FT | 611 48" CONDUIT, TYPE B, AS PER PLAN 2 FT | 611 48" CONDUIT, TYPE C, AS PER PLAN 1 FT | 611 48" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT | 611 54" CONDUIT, TYPE B, AS PER PLAN 1 FT | 611 54" CONDUIT, TYPE C, AS PER PLAN 1 FT | 611 60" CONDUIT, TYPE B, AS PER PLAN 1 FT | 611 60" CONDUIT, TYPE B, AS PER PLAN 2 FT | 611 66" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT | 611 14" X 23" CONDUIT, TYPE B, 706.04, AS PER PLAN 1 FT | 611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 15", TYPE B FT | 611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 18", TYPE B FT | 611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 21", TYPE B FT | 611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 24", TYPE B FT | 611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 27", TYPE B FT | 611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 30", TYPE B FT | 611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 36", TYPE B FT | 611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 14" X 23", TYPE B, 706.04 FT | 611 CONDUIT, MISC.: 14" X 23" CONDUIT, TYPE C, 706.04, AS PER PLAN 1 FT | 611 CONDUIT, MISC.: 24" X 38" CONDUIT, TYPE C, 706.04, AS PER PLAN 1 FT | 611 CATCH BASIN, NO. 3A EACH | 611 CATCH BASIN, NO. 5 EACH | 611 CATCH BASIN, NO. 5, AS PER PLAN EACH | 611 CATCH BASIN, NO. 6, AS PER PLAN EACH | 611 CATCH BASIN, NO. 8 WITHOUT APRON EACH | 611 CATCH BASIN, NO. 2-3 EACH |
|---|---|---

DRAINAGE SUBSUMMARY

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	611 CATCH BASIN, NO. 2-3 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN, NO. 2-5 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN, NO. 2-6 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN ADJUSTED TO GRADE EACH	611 INLET, NO. 2-A-6 EACH	611 INLET, NO. 2-A-8 EACH	611 INLET, NO. 2-A-10 EACH	611 INLET, NO. 2-A-12 EACH	611 INLET, NO. 2-A-16 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 2 EACH	611 INLET, MISC.: BARRIER INLET SCREEN EACH	611 MANHOLE, NO. 3 EACH	611 MANHOLE, NO. 3 WITH 60" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 72" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 84" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 90" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 96" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 108" BASE I.D. EACH	611 MANHOLE, NO. 5, AS PER PLAN EACH	611 MANHOLE ADJUSTED TO GRADE EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 60" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 72" BASE I.D. WITH BOLTED COVER EACH		611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 90" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 96" BASE I.D. WITH BOLTED COVER EACH	611 DRAINAGE STRUCTURE, MISC.: RESHAPE AND REESTABLISH EXISTING CONNECTION EACH
DZ-28		P.779	218+44.05	LT				CLP_I077				1																														
DZ-29		P.779	218+68.32	RT				CLP_I077				1																														
DZ-30		P.779	219+10.78	LT				CLP_I077				1																														
DZ-31		P.779	219+47.00	LT				CLP_I077				1																														
D-403		P.779	220+60.41	RT	TO	220+66.89	LT	CLP_I077											1			1																				
D-408		P.780	223+54.84	RT	TO	223+68.54	LT	CLP_I077											1			1																				
D-110		P.781	300+11.25	RT	TO	300+15.60	RT	BLP_R283A3																																		
DZ-1		P.781	300+73.08	LT				BLP_R283A3				1																														
D-1		P.781	301+45.41	LT	TO	302+05.00	LT	BLP_R283A3																		1															
D-2		P.781	301+65.56	LT	TO	302+05.00	LT	BLP_R283A3							1																											
D-2A		P.781	302+05.00	LT	TO	302+13.18	RT	BLP_R283A3																		1															
D-11		P.782	304+50.00	LT	TO	304+69.01	RT	BLP_R283A3								1																										
D-111		P.783	400+46.58	LT	TO	400+51.31	LT	BLP_R283A4																																		
D-47B		P.785	109+10.00	RT	TO	109+12.60	RT	BLP_R043B1						1																												
D-O5		P.787	112+09.35	RT				BLP_R043E1																																		
D-208A		P.787	112+09.35	RT	TO	112+36.00	RT	BLP_R043E1																																		
TOTALS CARRIED FROM THIS SHEET												5		1	1	1				2						2		2												
TOTALS CARRIED FROM P.726													3	6	5			1	5		7	1			14	2	3	1	4		1				4				3	1	
TOTALS CARRIED FROM P.729													2	3	3	3		1	6		8				15	3	1			1	1				1	1			1	8	
TOTALS CARRIED FROM P.732									2				3	2	7	5	1	1	2		6			2	11	7	2	1				1			1	2	1			1	
TOTALS CARRIED FROM P.735									2	4	2	2		1	4			2	5		3				10	6		1	4				6	2					1	
TOTALS CARRIED FROM P.738												10		2	5			3	2		2				7	2	4				1		10			2				
TOTALS CARRIED TO GENERAL SUMMARY									4	4	2	17	8	15	25	9	1	8	20	2	26	1	2	59	20	12	3	8	1	2	1	1	16	8	3	3		4	10	1	

Preliminary Plans - For Reference Only

DESIGN AGENCY
AECOM

DESIGNER SMS

REVIEWER AKM 05/01/26

PROJECT ID 105743

SHEET P.741 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet 18 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:23 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn

REF NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	CRITICAL INVERTS		601 TIED CONCRETE BLOCK MAT, TYPE 1	605 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	605 6" UNCLASSIFIED PIPE UNDERDRAINS	611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	611 PRECAST REINFORCED CONCRETE OUTLET							BENDS AND BRANCHES FOR INFORMATION ONLY						
																					6"X22.5° BEND	6"X45° BEND	6"X60° BEND	6"X90° BEND	6"X6" TEE	6"X6" WYE	6"X6" CROSS
										SY	FT	FT	FT	EACH							EACH	EACH	EACH	EACH	EACH	EACH	EACH
UD-1A	P.750	74+50	LT	TO	74+90	LT	CLP_I077	696.73	696.52		25	15	116								1		1		5		
UD-1B	P.750	74+97	LT	TO	75+07	LT	CLP_I077				3		10														
UD-1	P.750	75+12	LT	TO	77+70	LT	CLP_I077				247		10								3						
UD-2A	P.750	75+12	LT	TO	74+90	LT	CLP_I077	697.10	696.47		25	15															
UD-2	P.750-P.751	74+97	LT	TO	77+70	LT	CLP_I077				259		10								1						
UD-2B	P.751	77+73	LT	TO	78+90	LT	CLP_I077				119																
UD-3A	P.750	74+50	LT	TO	74+90	LT	CLP_I077	697.57	696.35		25	15															
UD-3	P.750-P.751	74+97	LT	TO	78+90	LT	CLP_I077				394		34											1	1		
UD-13	P.751	77+76	LT	TO	78+90	LT	CLP_I077				104		10														
UD-4A	P.750	74+50	RT	TO	74+90	RT	CLP_I077	697.46	696.22		25	15									1						
UD-4B	P.750	74+97	RT	TO	75+10	RT	CLP_I077				2		10														
UD-4	P.750	75+12	RT	TO	78+90	RT	CLP_I077				367		10														
UD-5A	P.750	74+50	RT	TO	74+90	RT	CLP_I077	698.02	696.11		25	15															
UD-5	P.750-P.751	74+97	RT	TO	79+04	RT	CLP_I077				409		35											1			
UD-6A	P.750	74+50	RT	TO	74+75	RT	CLP_I077	698.08	695.94		25	15	10								1						
								695.94	695.89			10															
UD-6	P.750	75+12	RT	TO	79+00	RT	CLP_I077				379		10														
UD-7	P.783-P.784	400+07	RT	TO	406+30	RT	BLP_R283A4				641		15												1		
UD-8	P.783	400+53	LT	TO	400+51	LT	BLP_R283A4						10								1						
UD-9	P.783-P.784	400+53	LT	TO	405+61	LT	BLP_R283A4	693.61	693.32		505	10	8												1		
UD-22	P.751	405+70	LT	TO	405+61	LT	BLP_R283A4	693.36	693.32			9															
UD-10	P.781	300+14	RT	TO	300+16	RT	BLP_R283A3						10								1						
UD-11	P.781	300+18	RT	TO	306+55	RT	BLP_R283A3	690.66	689.74		629	20	4												1		
UD-12	P.781	300+90	LT	TO	301+66	LT	BLP_R283A3				132		10														
UD-14	P.781	301+71	LT	TO	302+05	LT	BLP_R283A3				22		10								1						
UD-14A	P.781-P.782	302+07	LT	TO	304+50	LT	BLP_R283A3				236		10														
UD-24	P.782	304+57	LT	TO	306+71	LT	BLP_R283A3				205		10														
UD-15	P.751	78+95	LT	TO	80+62	LT	CLP_I077				156		10														
UD-16	P.751-P.752	98+95	LT	TO	82+57	LT	CLP_I077				358																1
UD-17	P.751-P.752	78+95	LT	TO	82+57	LT	CLP_I077				360		34														1
UD-18	P.751	78+92	RT	TO	81+60	RT	CLP_I077				257		10														
UD-19	P.751-P.752	79+03	RT	TO	82+57	RT	CLP_I077				356		18												1		
UD-20	P.751	79+06	RT	TO	80+96	RT	CLP_I077				185		10														
UD-21	P.751	80+67	LT	TO	81+60	LT	CLP_I077				83		10														
UD-25	P.751	81+65	LT	TO	82+25	LT	CLP_I077				51		10														
UD-26	P.751-P.752	81+62	RT	TO	82+57	RT	CLP_I077				83		10														
UD-27	P.751-P.753	81+68	RT	TO	90+29	RT	CLP_I077				670		10														
UD-28	P.752	82+30	LT	TO	82+57	LT	CLP_I077				17		10														
UD-29	P.752-P.753	82+57	RT	TO	90+29	RT	CLP_I077				777																
UD-30	P.752	83+48	RT	TO	82+58	RT	CLP_I077				80		10														
UD-31	P.752-P.753	82+57	LT	TO	90+29	LT	CLP_I077				757		10														
UD-32	P.752-P.753	82+57	LT	TO	89+96	LT	CLP_I077				720		10														
UD-32A	P.753	90+00	LT	TO	90+29	LT	CLP_I077				15		10														
UD-33	P.752	82+57	LT	TO	82+91	LT	CLP_I077				21		10														
UD-34	P.752	82+90	LT	TO	83+49	LT	CLP_I077				44		10														
UD-35	P.752	83+50	RT	TO	85+98	RT	CLP_I077				237		10														
UD-36	P.752	83+49	LT	TO	84+01	LT	CLP_I077				39		10														
UD-37	P.752	306+55	RT	TO	307+03	RT	BLP_R283A3	690.00	689.76			49															
UD-38	P.752	306+97	LT	TO	306+97	LT	BLP_R283A3				11		10														
UD-39	P.752-P.753	306+97	LT	TO	311+30	LT	BLP_R283A3				433		8											1			
UD-40	P.752	306+97	LT	TO	307+28	LT	BLP_R283A3				19		10								1						
UD-41	P.752	307+30	LT	TO	307+78	LT	BLP_R283A3				36		10														
UD-42	P.752	307+80	LT	TO	308+93	LT	BLP_R283A3				101		10														
UD-43	P.752-P.753	308+95	LT	TO	311+08	LT	BLP_R283A3				201		10														
UD-44	P.752-P.753	86+00	RT	TO	90+29	RT	CLP_I077				418		10														
UD-45	P.753	88+17	LT	TO	90+29	RT	CLP_I077				177		30														
TOTALS CARRIED TO P.748											11465	188	662														

Preliminary Plans - For Reference Only

MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:27 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS003.dgn

UNDERDRAIN SUBSUMMARY

DESIGN AGENCY
AECOM

DESIGNER
DL

REVIEWER
MAW 05/01/26

PROJECT ID
105743

SHEET P.742 | TOTAL P.1269

UNDERDRAIN SUBSUMMARY

REF NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	CRITICAL INVERTS		601 TIED CONCRETE BLOCK MAT, TYPE 1	605 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	605 6" UNCLASSIFIED PIPE UNDERDRAINS	611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	611 PRECAST REINFORCED CONCRETE OUTLET							BENDS AND BRANCHES FOR INFORMATION ONLY						
																					6"X22.5° BEND	6"X45° BEND	6"X60° BEND	6"X90° BEND	6"X6" TEE	6"X6" WYE	6"X6" CROSS
										SY	FT	FT	FT	EACH							EACH	EACH	EACH	EACH	EACH	EACH	EACH
UD-46	P.753-P.754	90+29	LT	TO	92+82	LT	CLP_I077				238		10														
UD-47	P.753-P.754	90+29	LT	TO	92+80	LT	CLP_I077				238		10														
UD-48	P.753-P.754	90+29	LT	TO	95+65	LT	CLP_I077				533		22											1			
UD-49	P.753-P.754	90+29	RT	TO	95+57	RT	CLP_I077				529		7										1				
UD-50	P.753-P.754	90+29	RT	TO	95+55	RT	CLP_I077				530		32											1			
UD-51	P.753-P.754	90+29	RT	TO	95+55	RT	CLP_I077				526		10								1						
UD-52	P.754	92+84	LT	TO	95+55	LT	CLP_I077				255		10														
UD-53	P.754	95+69	LT	TO	99+00	LT	CLP_I077				316		10														
UD-54	P.754-P.755	95+57	RT	TO	99+00	RT	CLP_I077				316		10														
UD-55	P.754-P.755	95+58	RT	TO	99+00	RT	CLP_I077				343		36											1		1	
UD-56	P.754-P.755	95+60	RT	TO	99+00	RT	CLP_I077				329		10														
UD-57	P.754-P.755	95+57	LT	TO	98+90	LT	CLP_I077				320		10														
UD-58	P.754-P.755	95+67	LT	TO	99+00	LT	CLP_I077				318		26										1				
UD-59	P.754-P.755	95+69	LT	TO	99+00	LT	CLP_I077				316		10														
UD-60	P.755-P.756	98+90	LT	TO	103+70	LT	CLP_I077				467		10														
UD-61	P.755-P.756	100+75	LT	TO	106+08	LT	CLP_I077				535		45								2			1			
UD-62	P.755-P.756	100+20	RT	TO	104+39	RT	CLP_I077				420																
UD-63	P.754	99+00	LT	TO	101+65	LT	CLP_I077	685.81	684.5			252	10														
UD-64	P.755-P.756	99+00	RT	TO	104+40	LT	CLP_I077				539		65											1	2		
UD-64A	P.756-P.757	104+42	LT	TO	110+80	LT	CLP_I077				627		10														
UD-65	P.755-P.756	99+60	RT	TO	104+29	RT	CLP_I077				464		10											2			
UD-65A	P.755	99+00	RT	TO	99+60	RT	CLP_I077	687.52	688.25			49	10								1						
UD-66	P.755-P.756	99+00	RT	TO	104+39	RT	CLP_I077				527		10														
UD-67	P.756	102+86	RT	TO	104+39	RT	CLP_I077				142		10														
UD-68	P.756	103+72	LT	TO	106+08	LT	CLP_I077				229		10									1					
UD-69	P.756	102+02	RT	TO	104+15	RT	BLP_R043B1				201		10														
UD-70	P.756	102+12	RT	TO	104+23	RT	BLP_R043B1				199		10														
UD-71	P.756	104+41	RT	TO	110+80	RT	CLP_I077				632																
UD-72	P.756-P.757	104+41	RT	TO	110+80	RT	CLP_I077				636		47											1	2		
UD-73	P.756-P.757	106+10	RT	TO	110+80	RT	CLP_I077				472		19											1			
UD-74	P.756-P.757	106+10	LT	TO	108+16	LT	CLP_I077				207		10								1						
UD-75	P.756	104+17	RT	TO	104+66	RT	BLP_R043B1				38		10														
UD-76	P.756	104+17	RT	TO	104+66	RT	BLP_R043B1				41		5												1		
UD-77	P.756-P.757	106+70	RT	TO	110+80	RT	BLP_R043B1				405																
UD-78	P.756-P.757	104+35	LT	TO	104+69	LT	BLP_R043B1				34		5												1		
UD-79	P.756-P.757	105+74	RT	TO	104+66	RT	BLP_R043B1				96		10														
UD-80	P.757	104+66	RT	TO	107+25	RT	BLP_R043B1				258																
UD-81	P.757	104+69	LT	TO	108+22	LT	BLP_R043B1				354										1						
UD-82	P.757	105+76	RT	TO	109+06	RT	BLP_R043B1				319		10														
UD-96	P.785	109+10	RT	TO	109+16	RT	BLP_R043B1						10														
UD-83	P.757	202+19	LT	TO	202+87	LT	BLP_R043B2				52		10														
UD-84	P.757	108+65	LT	TO	111+12	LT	CLP_I077				241		10														
UD-85	P.757	202+62	RT	TO	202+87	RT	BLP_R043B2	677.14	676.97			21	26												1		
UD-86	P.757	202+87	LT	TO	203+14	LT	BLP_R043B2				20		10								1						
UD-87	P.757	202+87	RT	TO	204+73	RT	BLP_R043B2	676.98	676.97		188	4															
UD-88	P.757	202+87	LT	TO	204+73	LT	BLP_R043B2				139		10								1						
UD-89	P.757	108+27	LT	TO	109+16	LT	BLP_R043B1				80		10														
UD-90	P.757-P.758	110+82	RT	TO	116+25	RT	CLP_I077				530		10														
UD-91	P.757-P.758	110+82	RT	TO	117+56	RT	CLP_I077				667																
UD-92	P.757-P.759	110+82	RT	TO	117+56	RT	CLP_I077				670		34											1	1		
TOTALS CARRIED TO P.748											15536	326	669														

Preliminary Plans - For Reference Only

DESIGN AGENCY
AECOM

DESIGNER DL
REVIEWER MAW 05/01/26
PROJECT ID 105743
SHEET P.743 TOTAL P.1269

CUY-77-11.41 - PART 1
MODEL: Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:28 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCExv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\3015525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS003.dgn

REF NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	CRITICAL INVERTS		601 TIED CONCRETE BLOCK MAT, TYPE 1 SY	605 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC FT	605 6" UNCLASSIFIED PIPE UNDERDRAINS FT	611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS FT	611 PRECAST REINFORCED CONCRETE OUTLET EACH					6"X22.5° BEND EACH		BENDS AND BRANCHES FOR INFORMATION ONLY: 6"X22.5° BEND EACH	6"X45° BEND EACH	6"X60° BEND EACH	6"X90° BEND EACH	6"X6" TEE EACH	6"X6" WYE EACH	6"X6" CROSS EACH
UD-93	P.757-P.759	110+83	LT	TO	117+54	LT	CLP_I077				661		10														
UD-94	P.757-P.759	110+83	LT	TO	117+54	LT	CLP_I077				675		19												1		
UD-95	P.757-P.759	111+16	LT	TO	118+21	LT	CLP_I077	662.61	659.99		724	20	11													1	
UD-96	P.785	109+10	RT	TO	109+16	RT	BLP_R043B1						10														
UD-97	P.758-P.759	301+70	LT	TO	307+98	LT	BLP_R043B3				639		10								1						
UD-98	P.758-P.759	301+70	RT	TO	306+56	RT	BLP_R043B3	663.55	660.76		460	20	15													1	
UD-99	P.758-P.759	401+75	LT	TO	404+97	LT	BLP_R043B4				313		10								1						
UD-100	P.758-P.759	401+75	RT	TO	105+00	RT	BLP_R043B4			1.78	325		18	1										1			
UD-101	P.758-P.759	116+32	RT	TO	117+51	RT	CLP_I077				112		10														
UD-102	P.759-P.760	117+56	LT	TO	125+78	LT	CLP_I077				826		19												1		
UD-103	P.759-P.760	117+56	LT	TO	125+78	LT	CLP_I077				811		10														
UD-104	P.759-P.760	117+58	RT	TO	126+00	RT	CLP_I077			1.78	838		68	1										1	3		
UD-105	P.759-P.760	117+58	RT	TO	126+00	RT	CLP_I077				834																
UD-106	P.759	117+51	RT	TO	117+84	RT	CLP_I077	660.87	660.74			27	10														
UD-107	P.759	405+08	LT	TO	405+23	LT	BLP_R043B4	660.79	660.72			15	10								1						
UD-108	P.759-P.760	117+66	RT	TO	126+00	RT	CLP_I077				821																
UD-109	P.759	118+51	LT	TO	119+58	LT	CLP_I077	661.07	659.99			108															
UD-110	P.759	306+56	RT	TO	307+63	RT	BLP_R043B3	661.29	660.76			107															
UD-112	P.759-P.760	120+05	LT	TO	126+00	LT	CLP_I077				675		10												1		
UD-113	P.759-P.760	121+54	RT	TO	126+00	RT	CLP_I077				439																
UD-114	P.760-P.761	126+02	RT	TO	129+76	RT	CLP_I077				369																
UD-115	P.760-P.761	126+02	RT	TO	129+76	RT	CLP_I077				370																
UD-116	P.760-P.761	126+02	RT	TO	129+76	RT	CLP_I077				372																
UD-117	P.760-P.761	126+02	RT	TO	129+76	RT	CLP_I077			1.78	374		60	1											1		3
UD-118	P.760-P.761	125+80	LT	TO	129+00	LT	CLP_I077				309		10														
UD-119	P.760-P.761	125+81	LT	TO	129+77	LT	CLP_I077				399		32												1		
UD-120	P.760-P.761	125+82	LT	TO	129+07	LT	CLP_I077				318		10														
UD-121	P.761	129+02	LT	TO	129+77	LT	CLP_I077				64		10														
UD-122	P.760-P.761	129+09	LT	TO	129+77	LT	CLP_I077				58		10														
UD-123	P.761-P.762	129+76	RT	TO	132+89	RT	CLP_I077				318																
UD-124	P.761-P.762	129+76	RT	TO	132+90	RT	CLP_I077				312																
UD-125	P.761-P.762	129+77	RT	TO	132+95	RT	CLP_I077				314																
UD-126	P.761-P.762	129+77	RT	TO	133+85	RT	CLP_I077				407																
UD-127	P.761-P.762	129+77	LT	TO	130+63	RT	CLP_I077				74		10														
UD-128	P.761-P.762	129+77	LT	TO	130+63	RT	CLP_I077				409																
UD-129	P.761	129+77	LT	TO	130+63	LT	CLP_I077				75		10														
UD-130	P.761-P.762	130+65	LT	TO	133+69	LT	CLP_I077				294		10														
UD-131	P.761-P.762	130+65	LT	TO	135+78	LT	CLP_I077				502		10														
UD-134	P.762	104+89	LT	TO	106+46	LT	BLP_R043C1				148		10														
UD-135	P.762	132+95	RT	TO	135+77	RT	CLP_I077				277		10												1		
UD-136	P.762	133+00	RT	TO	135+78	RT	CLP_I077				272		10								1						
UD-137	P.762	104+92	RT	TO	106+44	RT	BLP_R043C1				144		10														
UD-138	P.762	133+71	LT	TO	135+77	RT	CLP_I077				198		10												1		
UD-139	P.762	133+71	LT	TO	135+77	LT	CLP_I077				193		10								1						
UD-140	P.762	106+50	RT	TO	107+81	RT	BLP_R043C1				135		10														
UD-141	P.762	106+50	LT	TO	107+83	LT	BLP_R043C1				123		10														
UD-142	P.762-P.763	135+83	RT	TO	138+95	RT	CLP_I077				305		10														
UD-143	P.762-P.763	135+79	RT	TO	141+54	RT	CLP_I077				574		10												1		
TOTALS CARRIED TO P.748										5.4	16860	297	512	3													

Preliminary Plans - For Reference Only

UNDERDRAIN SUBSUMMARY

DESIGN AGENCY: AECOM

DESIGNER: DL

REVIEWER: MAW 05/01/26

PROJECT ID: 105743

SHEET: P.744 TOTAL: P.1269

MODEL: Sheet 3 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:28 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS003.dgn

REF NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	CRITICAL INVERTS		601 TIED CONCRETE BLOCK MAT, TYPE 1	605 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	605 6" UNCLASSIFIED PIPE UNDERDRAINS	611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	611 PRECAST REINFORCED CONCRETE OUTLET							BENDS AND BRANCHES FOR INFORMATION ONLY						
																					6"X22.5° BEND	6"X45° BEND	6"X60° BEND	6"X90° BEND	6"X6" TEE	6"X6" WYE	6"X6" CROSS
										SY	FT	FT	FT	EACH							EACH	EACH	EACH	EACH	EACH	EACH	EACH
UD-144	P.762-P.763	135+80	LT	TO	141+54	LT	CLP_I077				563		10														
UD-144A	P.763-P.764	141+57	LT	TO	146+01	LT	CLP_I077				444													1	1		
UD-145	P.762-P.763	135+80	LT	TO	141+55	LT	CLP_I077				570		52									1		3	1		
UD-146	P.762-P.763	135+86	LT	TO	141+48	LT	CLP_I077				563										2						
UD-147	P.762-P.763	107+86	LT	TO	141+48	LT	BLP_R043C1				151		10														
UD-148	P.762-P.763	107+86	LT	TO	141+48	LT	BLP_R043C1				404		10														
UD-149	P.763	109+50	LT	TO	111+75	LT	BLP_R043C1				215		10														
UD-150	P.763	139+00	RT	TO	141+51	RT	CLP_I077				243		10								1						
UD-151	P.763	138+96	RT	TO	141+54	RT	CLP_I077				258		34											1	1		
UD-151A	P.763	138+96	RT	TO	141+54	RT	CLP_I077				258																
UD-152	P.763	111+75	LT	TO	112+00	LT	BLP_R043C1				17		10														
UD-153	P.763-P.764	141+50	LT	TO	143+25	LT	CLP_I077				166		10								1						
UD-153A	P.764	143+30	LT	TO	146+01	LT	CLP_I077				261		12								1						
UD-154	P.763-P.764	141+57	LT	TO	146+01	LT	CLP_I077	660.50	658.9		421	25															
UD-155	P.763-P.764	141+56	RT	TO	146+02	RT	CLP_I077				445		34											1	1		
UD-156	P.763-P.764	141+56	RT	TO	146+02	RT	CLP_I077				443																
UD-157	P.763-P.764	141+56	RT	TO	142+65	RT	CLP_I077				101		10														
UD-158	P.764	300+47	LT	TO	303+82	LT	BLP_R743C3				323		10														
UD-159	P.764	300+48	RT	TO	303+55	RT	BLP_R743C3				300		10														
UD-160	P.764	142+72	RT	TO	144+20	RT	CLP_I077				139		10								1						
UD-161	P.764	142+72	RT	TO	144+20	RT	CLP_I077				168		10														
UD-162																											
UD-162																											
UD-164	P.764	303+82	LT	TO	304+21	LT	BLP_R743C3				29		10														
UD-165	P.764	303+61	RT	TO	303+82	RT	CLP_I077				7		10														
UD-166	P.764-P.766	146+04	RT	TO	151+81	RT	CLP_I077				576																
UD-167	P.764-P.765	146+04	RT	TO	149+20	RT	CLP_I077				316		46											1	2		
UD-168	P.764-P.765	146+03	LT	TO	153+42	RT	CLP_I077				729		10								2						
UD-169	P.764-P.765	146+03	LT	TO	149+20	LT	CLP_I077				318		19											1			
UD-170	P.764-P.765	146+07	LT	TO	150+14	LT	CLP_I077				401		10														
UD-171	P.764-P.765	304+10	RT	TO	305+45	RT	CLP_I077				128		10														
UD-172	P.765	305+50	RT	TO	306+13	RT	CLP_I077				55		10														
UD-173	P.765	201+50	RT	TO	201+54	RT	BLP_R743C2	681.46	681.43			5													1		
UD-174	P.765	202+41	RT	TO	201+54	RT	BLP_R743C2	681.57	681.43		76	10	26														
UD-175	P.765	201+54	LT	TO	202+41	LT	BLP_R743C2				73		10														
UD-176	P.765	148+50	RT	TO	153+42	RT	CLP_I077				485		10														
UD-177	P.765	202+41	RT	TO	204+23	RT	CLP_I077				183		2														
UD-178	P.765	202+41	RT	TO	204+23	RT	CLP_I077				136		10														
UD-180	P.765	149+20	LT	TO	150+14	LT	CLP_I077				94		11											1	1		
UD-181	P.765	150+16	LT	TO	152+70	LT	CLP_I077				254		14											1	1		
UD-182	P.765	150+16	LT	TO	150+66	LT	CLP_I077				50																
UD-183	P.765	203+80	LT	TO	204+21	LT	BLP_R743C2				29		10														
UD-184	P.765	204+23	RT	TO	204+28	RT	BLP_R743C2	678.75	678.05			6															
UD-185	P.765	204+58	LT	TO	204+21	LT	BLP_R743C2				26		10								1						
UD-187	P.765	204+60	LT	TO	205+58	LT	BLP_R743C2				87		10								1						
UD-188	P.765-P.766	151+80	LT	TO	152+70	LT	CLP_I077				91		25											1	1		
UD-189	P.765-P.766	151+80	RT	TO	153+42	RT	CLP_I077				161		24											2			
UD-190	P.765-P.766	205+60	LT	TO	206+62	LT	BLP_R743C2				91		10								1						
TOTALS CARRIED TO P.748											10848	46	549														

Preliminary Plans - For Reference Only

UNDERDRAIN SUBSUMMARY

DESIGN AGENCY
AECOM

DESIGNER DL
REVIEWER MAW 05/01/26
PROJECT ID 105743
SHEET P.745 TOTAL P.1269

CUY-77-11.41 - PART 1
MODEL: Sheet 4 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:56:28 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\3015525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS003.dgn

REF NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	CRITICAL INVERTS		601 TIED CONCRETE BLOCK MAT, TYPE 1	605 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	605 6" UNCLASSIFIED PIPE UNDERDRAINS	611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	611 PRECAST REINFORCED CONCRETE OUTLET							BENDS AND BRANCHES FOR INFORMATION ONLY						
																					6"X22.5° BEND	6"X45° BEND	6"X60° BEND	6"X90° BEND	6"X6" TEE	6"X6" WYE	6"X6" CROSS
										SY	FT	FT	FT	EACH							EACH	EACH	EACH	EACH	EACH	EACH	EACH
UD-191	P.766-P.767	153+01	LT	TO	206+62	LT	BLP_R743C2				439		10								2						
UD-193	P.766-P.767	152+70	LT	TO	159+90	LT	CLP_I077				715																
UD-194	P.766-P.767	152+70	LT	TO	159+90	LT	CLP_I077				718		31											1	1		
UD-195	P.766-P.767	153+42	RT	TO	162+25	RT	CLP_I077				872		10														
UD-196	P.766-P.767	153+42	RT	TO	159+85	RT	CLP_I077				646		34											1			
UD-197	P.766-P.767	153+42	RT	TO	159+85	RT	CLP_I077				639		10														
UD-198	P.766-P.767	157+59	LT	TO	159+90	LT	CLP_I077				217		10														
UD-199	P.767-P.768	159+87	RT	TO	165+30	RT	CLP_I077				538		10								1						
UD-200	P.767-P.768	159+87	RT	TO	164+71	RT	CLP_I077				486		29												1		
UD-201	P.767-P.768	159+92	LT	TO	164+50	LT	CLP_I077				456		31												1		1
UD-202	P.767-P.768	159+92	LT	TO	164+50	LT	CLP_I077				454																
UD-203	P.767-P.768	159+92	LT	TO	162+50	LT	CLP_I077				253		10														
UD-204	P.768	162+27	RT	TO	163+35	RT	CLP_I077				96		10														
UD-205	P.768	162+53	LT	TO	163+35	LT	CLP_I077				71		10								1						
UD-206	P.768	163+37	RT	TO	164+71	RT	CLP_I077				122		10														
UD-207	P.768	163+37	LT	TO	164+50	LT	CLP_I077				101		10								1						
UD-208	P.768	164+50	LT	TO	165+23	LT	CLP_I077				61		10								1						
UD-209	P.768-P.769	164+50	LT	TO	167+73	LT	CLP_I077				322																
UD-210	P.768-P.769	164+50	LT	TO	167+80	LT	CLP_I077				329																
UD-211	P.768	163+37	RT	TO	164+71	RT	CLP_I077				122		10														
UD-212	P.768-P.769	164+71	RT	TO	167+80	RT	CLP_I077				310																
UD-213	P.768	165+25	LT	TO	165+73	LT	CLP_I077				36		10								1						
UD-214	P.768	165+32	RT	TO	166+27	RT	CLP_I077				84		10								1						
UD-215	P.768-P.769	165+67	RT	TO	167+70	RT	CLP_I077				192		10														
UD-216	P.768-P.769	165+75	LT	TO	167+73	LT	CLP_I077				187		10								1						
UD-217	P.768-P.769	166+27	RT	TO	167+58	RT	CLP_I077				120		10								1						
UD-218	P.769-P.770	167+60	RT	TO	176+54	RT	CLP_I077				884		10								1				1		
UD-219	P.769-P.770	167+70	RT	TO	176+54	RT	CLP_I077				874		10								3						
UD-220	P.769-P.770	167+75	LT	TO	176+54	LT	CLP_I077				877		10											1			
UD-221	P.769-P.770	167+75	LT	TO	176+54	LT	CLP_I077				866		10								1						
UD-222	P.769-P.770	167+81	RT	TO	172+95	RT	CLP_I077				514		11											1			
UD-223	P.770-P.771	172+95	LT	TO	176+54	LT	CLP_I077				357		24											1	1		
UD-224	P.770-P.772	176+54	LT	TO	183+42	LT	CLP_I077				677																
UD-225	P.770-P.772	176+54	LT	TO	183+42	LT	CLP_I077				680																
UD-226	P.770-P.772	176+54	LT	TO	183+42	LT	CLP_I077				684		59									1		1	1		
UD-227	P.770-P.772	176+54	RT	TO	183+50	RT	CLP_I077				695		10														
UD-228	P.770-P.772	176+54	RT	TO	183+50	RT	CLP_I077				693		19											1			
UD-229	P.770-P.772	176+54	RT	TO	183+42	RT	CLP_I077				692		10								1						
UD-230	P.772-P.773	183+47	RT	TO	188+13	RT	CLP_I077				453		10								1						
UD-231	P.772-P.773	183+52	RT	TO	188+17	RT	CLP_I077				465		47											1			
UD-232	P.772-P.773	183+52	RT	TO	189+00	LT	CLP_I077				537		10														
UD-233	P.772-P.773	183+52	LT	TO	189+00	LT	CLP_I077				557		19											1			
UD-234	P.772-P.773	183+44	LT	TO	188+19	LT	CLP_I077				475		31											1	1		
UD-235	P.772-P.773	183+44	LT	TO	188+81	LT	CLP_I077				539		11									1					
UD-236	P.773	100+71	RT	TO	102+30	RT	BLP_R329D1				152		10								1						
UD-237	P.773-P.774	188+19	RT	TO	194+85	RT	CLP_I077				660		44											1	2		
UD-238	P.773-P.774	188+19	RT	TO	194+85	RT	CLP_I077				654																
UD-239	P.773-P.774	189+02	LT	TO	193+89	LT	CLP_I077				491		45											1		1	
UD-240	P.773-P.774	189+02	LT	TO	194+00	LT	CLP_I077				487		10														
UD-241	P.774	102+36	RT	TO	104+10	RT	BLP_R329D1				166		10														
TOTALS CARRIED TO P.748											22715		715														

For Reference Only
Preliminary Plans - For

UNDERDRAIN SUBSUMMARY

CUY-77-11.41 - PART 1

DESIGN AGENCY
AECOM

DESIGNER DL
REVIEWER MAW 05/01/26
PROJECT ID 105743
SHEET P.746 TOTAL P.1269

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REF NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	CRITICAL INVERTS		601 TIED CONCRETE BLOCK MAT, TYPE 1	605 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	605 6" UNCLASSIFIED PIPE UNDERDRAINS	611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	611 PRECAST REINFORCED CONCRETE OUTLET							BENDS AND BRANCHES FOR INFORMATION ONLY						
																					6"X22.5° BEND	6"X45° BEND	6"X60° BEND	6"X90° BEND	6"X6" TEE	6"X6" WYE	6"X6" CROSS
										SY	FT	FT	FT	EACH							EACH	EACH	EACH	EACH	EACH	EACH	EACH
UD-242	P.773-P.774	190+99	RT	TO	194+85	RT	CLP_I077				378																
UD-243	P.773-P.774	103+42	LT	TO	104+37	LT	BLP_R329D1				97		27												1		
UD-244	P.773	104+15	RT	TO	104+40	RT	BLP_R329D1				11		10								1						
UD-245	P.774	104+15	RT	TO	104+40	RT	BLP_R329D1				37		10								1						
UD-246	P.774	104+37	LT	TO	106+50	LT	BLP_R329D1				215																
UD-247	P.774	192+13	LT	TO	193+98	LT	CLP_I077	666.97	665.14		159	20															
UD-248	P.774	202+86	RT	TO	204+27	RT	BLP_R329D2	669.46	669.42	1.78	137	8	13	1											1		
UD-249	P.774	104+80	RT	TO	106+50	RT	BLP_R329D1				162		10														
UD-250	P.774	204+27	RT	TO	205+90	RT	BLP_R329D2	669.47	669.42		153	5															
UD-251	P.774	204+62	LT	TO	205+90	LT	BLP_R329D2	669.42	669.90		108	20															
UD-251A	P.773-P.774	188+84	LT	TO	204+70	LT	BLP_R329D2	669.09	669.9		474	38	25									1		1			
UD-252	P.774-P.775	193+91	LT	TO	199+18	LT	CLP_I077				524		10								1						
UD-253	P.774-P.775	193+91	LT	TO	199+38	LT	CLP_I077	657.68	657.46		531	45	35													1	
UD-254	P.774-P.775	194+02	LT	TO	199+20	LT	CLP_I077				506		10														
UD-255	P.774-P.775	194+87	RT	TO	199+20	RT	CLP_I077	657.82	657.66		413	20	23												1		
UD-255A	P.775	199+20	RT	TO	199+38	RT	CLP_I077	657.68	657.66				18														
UD-256	P.774-P.775	194+87	RT	TO	200+35	RT	CLP_I077	657.16	657.07		529	18	34												1		1
UD-257	P.774-P.775	194+87	RT	TO	200+35	RT	CLP_I077	656.66	656.57		529	18															
UD-258	P.774-P.775	199+24	LT	TO	199+98	LT	CLP_I077				67		10								1						
UD-259	P.775	199+22	LT	TO	200+18	LT	CLP_I077				84		10														
UD-260	P.775	200+04	LT	TO	200+20	LT	CLP_I077				2		10								1						
UD-261	P.775-P.776	200+35	RT	TO	204+96	RT	CLP_I077	657.18	657.07		441	20															
UD-262	P.775	200+18	LT	TO	201+13	LT	CLP_I077				84		10														
UD-263	P.775	200+18	LT	TO	200+16	LT	CLP_I077				564																
UD-263A	P.775	199+38	LT	TO	200+16	LT	CLP_I077				79		10												1		
UD-264	P.775	200+20	LT	TO	200+37	LT	CLP_I077				11		10								1						
UD-265	P.775-P.776	102+23	RT	TO	106+89	RT	CLP_I077	656.67	656.57		445	20															
UD-266	P.775	200+42	LT	TO	201+16	LT	CLP_I077				66		10								1						
UD-267	P.775-P.776	200+42	LT	TO	201+16	LT	CLP_I077				453		10														
UD-268	P.775-P.776	201+22	LT	TO	202+99	LT	CLP_I077				170		10														
UD-269	P.775-P.776	203+04	LT	TO	205+79	LT	CLP_I077				267		10														
UD-270	P.776	203+84	RT	TO	204+98	RT	CLP_I077	658.29	657.72			114															
UD-271	P.776	105+70	LT	TO	106+83	LT	BLP_R043E1	658.21	657.67			109	15									1			1		
UD-272	P.776	204+03	LT	TO	205+79	LT	CLP_I077				177		9											1	1		
UD-273	P.786-P.787	106+78	LT	TO	113+64	LT	BLP_R043E1	658.99	657.67		670	20															
UD-274	P.786-P.787	106+83	RT	TO	112+33	RT	BLP_R043E1				652		16														
UD-275	P.776	204+98	RT	TO	205+79	RT	CLP_I077				82		21											1			1
UD-276	P.776	204+98	RT	TO	205+79	RT	CLP_I077	658.70	657.72		62	20															
UD-277	P.776-P.777	205+79	LT	TO	210+32	LT	CLP_I077				444		10														
UD-278	P.776-P.777	205+79	LT	TO	211+68	LT	CLP_I077				588		5											1			
UD-279	P.776-P.777	205+79	LT	TO	211+37	LT	CLP_I077				558		8											1	1		
UD-280	P.776-P.778	205+79	LT	TO	215+55	LT	CLP_I077				964		10														
UD-281	P.776-P.777	205+79	RT	TO	208+08	RT	CLP_I077				228		10											1	1		
UD-282	P.776-P.777	205+79	RT	TO	208+08	RT	CLP_I077				228																
UD-283	P.777-P.778	208+08	RT	TO	215+55	RT	CLP_I077				747		4												1		
UD-284	P.777-P.778	210+37	LT	TO	211+68	LT	CLP_I077				116		10														
UD-285	P.777-P.778	211+70	LT	TO	212+09	LT	CLP_I077				27		10								1						
UD-286	P.777-P.778	211+73	LT	TO	212+04	LT	CLP_I077				19		10														
UD-287	P.778	212+07	LT	TO	213+75	LT	CLP_I077				168																
UD-288	P.778	212+10	LT	TO	213+42	LT	CLP_I077				130																
TOTALS CARRIED TO P.748										1.8	13556	513	445	1													

For Reference Only
Preliminary Plans - For

UNDERDRAIN SUBSUMMARY

CUY-77-11.41 - PART 1

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DESIGN AGENCY
AECOM

DESIGNER DL
REVIEWER MAW 05/01/26
PROJECT ID 105743
SHEET P.747 TOTAL P.1269

REF NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	CRITICAL INVERTS		601 TIED CONCRETE BLOCK MAT, TYPE 1 SY	605 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC FT	605 6" UNCLASSIFIED PIPE UNDERDRAINS FT	611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS FT	611 PRECAST REINFORCED CONCRETE OUTLET EACH							BENDS AND BRANCHES FOR INFORMATION ONLY 6"X22.5° BEND EACH	6"X45° BEND EACH	6"X60° BEND EACH	6"X90° BEND EACH	6"X6" TEE EACH	6"X6" WYE EACH	6"X6" CROSS EACH
UD-288A	P.778	213+45	LT	TO	213+75	LT	CLP_I077				30																
UD-289	P.778-P.779	215+55	LT	TO	217+46	LT	CLP_I077				179		10														
UD-289A	P.779	217+48	LT	TO	220+84	LT	CLP_I077				324		10														
UD-290	P.778-P.779	215+55	LT	TO	220+84	LT	CLP_I077				529																
TOTALS CARRIED FROM THIS SHEET											1062		20														
TOTALS CARRIED FROM P.742											11465	188	662														
TOTALS CARRIED FROM P.743											15536	326	669														
TOTALS CARRIED FROM P.744										5.4	16860	297	512	3													
TOTALS CARRIED FROM P.745											10848	46	549														
TOTALS CARRIED FROM P.746											22715		715														
TOTALS CARRIED FROM P.747										1.8	13556	513	445	1													
TOTALS CARRIED TO GENERAL SUMMARY										7.2	92042	1370	3572	4													

Preliminary Plans - For Reference Only

UNDERDRAIN SUBSUMMARY

CUY-77-11.41 - PART 1

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DESIGN AGENCY
AECOM

DESIGNER DL
REVIEWER MAW 05/01/26
PROJECT ID 105743
SHEET P.748 TOTAL P.1269

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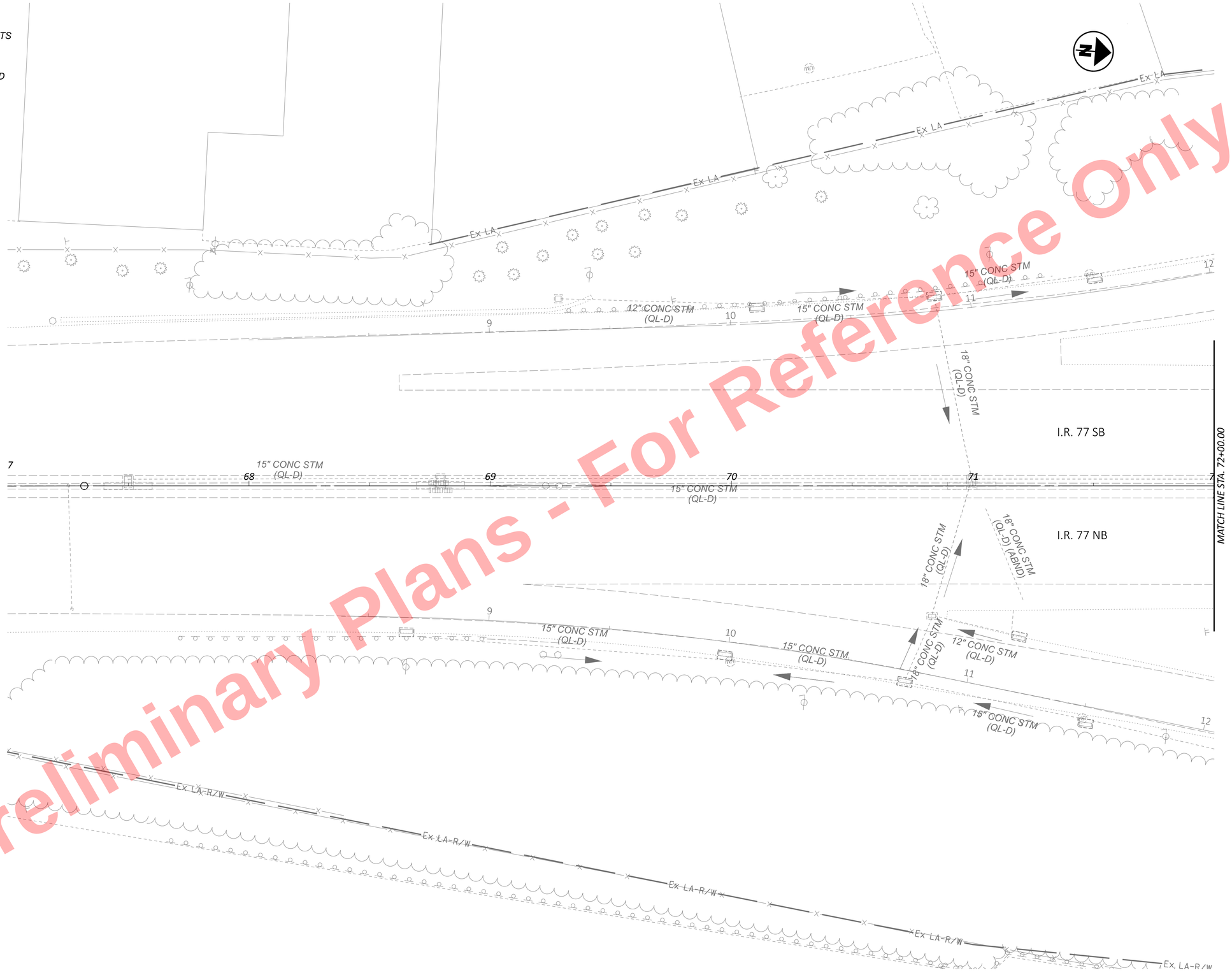
CUY-77-11.41 - PART 1

NOTES

ALL DRAINAGE PRIOR TO THE BEGIN PROJECT LIMITS BELONGS TO THE PID 115275 PROJECT

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77 BEGINNING TO STA. 72+00.00

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.749 | TOTAL P.1269

NOTES

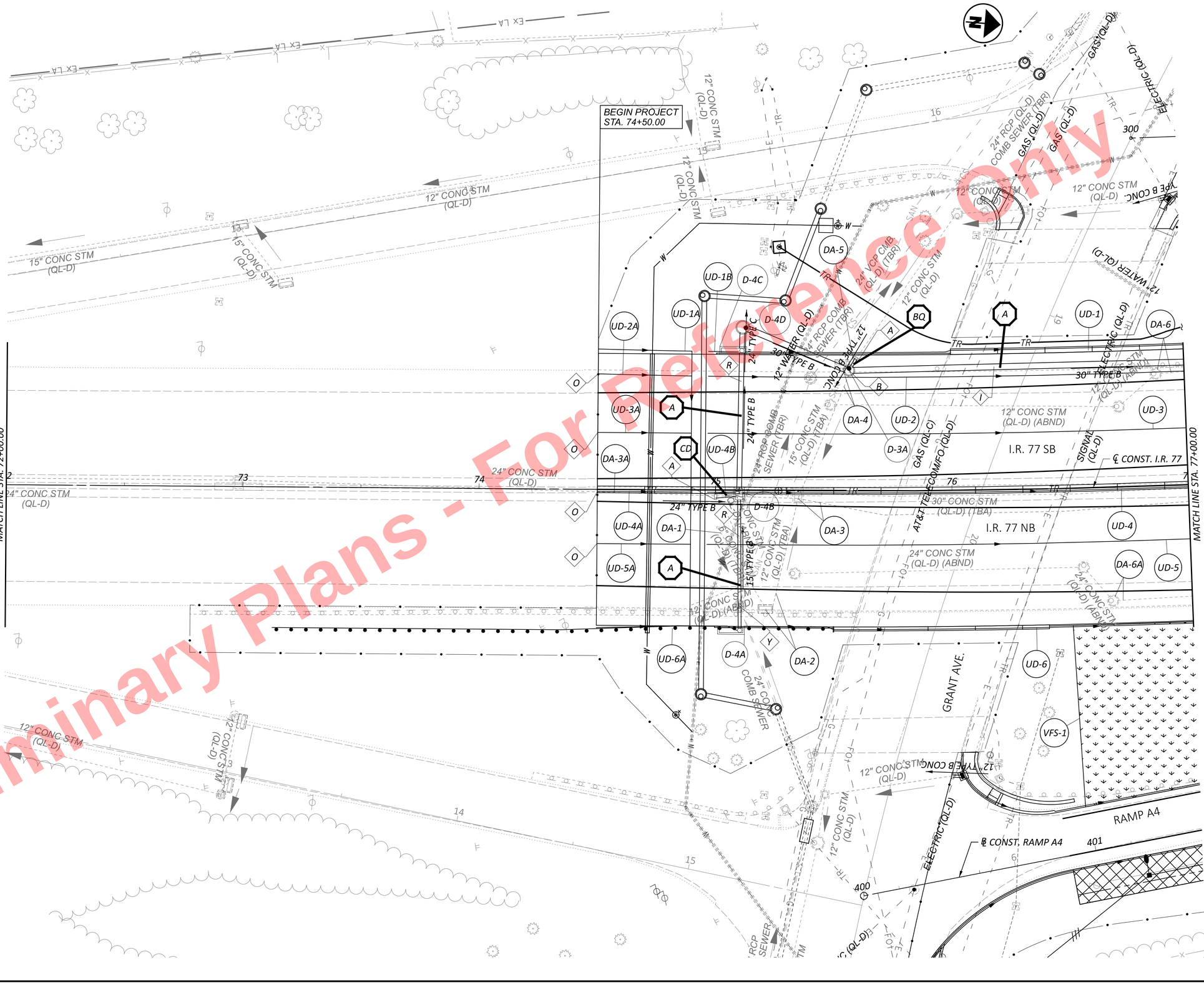
FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR RAMP A4 DRAINAGE PLAN, SEE SHEETS P.783 - P.784

FOR PROPOSED SANITARY DETAILS, SEE SHEET P.1009

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 72+00.00 TO STA. 77+00.00

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.750 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 2 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:57:03 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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NOTES

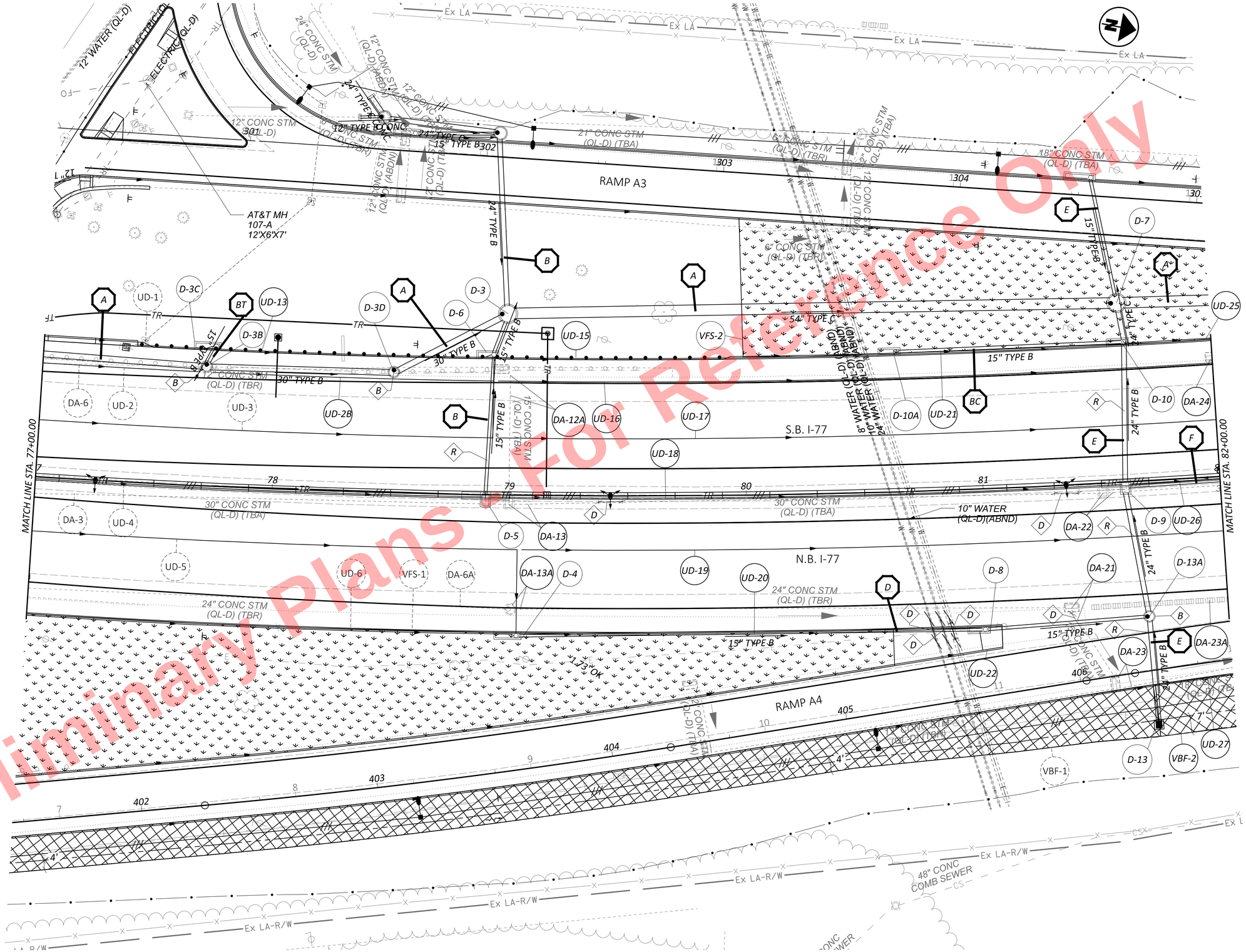
FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR RAMP A3 DRAINAGE PLAN, SEE SHEETS P.781 - P.782

FOR RAMP A4 DRAINAGE PLAN, SEE SHEETS P.783 - P.784

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 77+00.00 TO STA. 82+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.751 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 3 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:57:20 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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NOTES

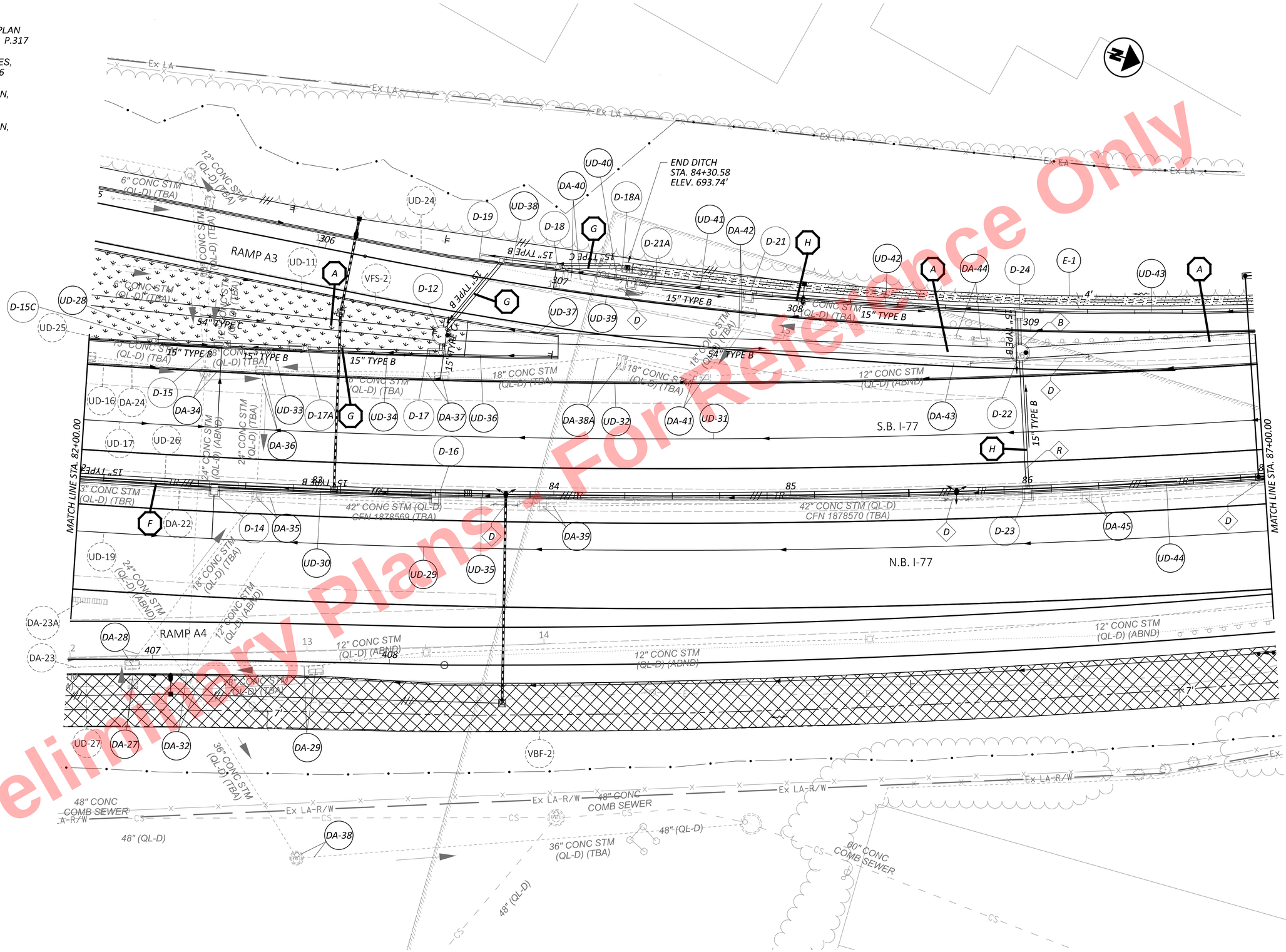
FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR RAMP A3 DRAINAGE PLAN, SEE SHEETS P.781 - P.782

FOR RAMP A4 DRAINAGE PLAN, SEE SHEETS P.783 - P.784

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



Preliminary Plans For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 82+00.00 TO STA. 87+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.752 TOTAL P.1269

CUY-77-11.41 - PART 1

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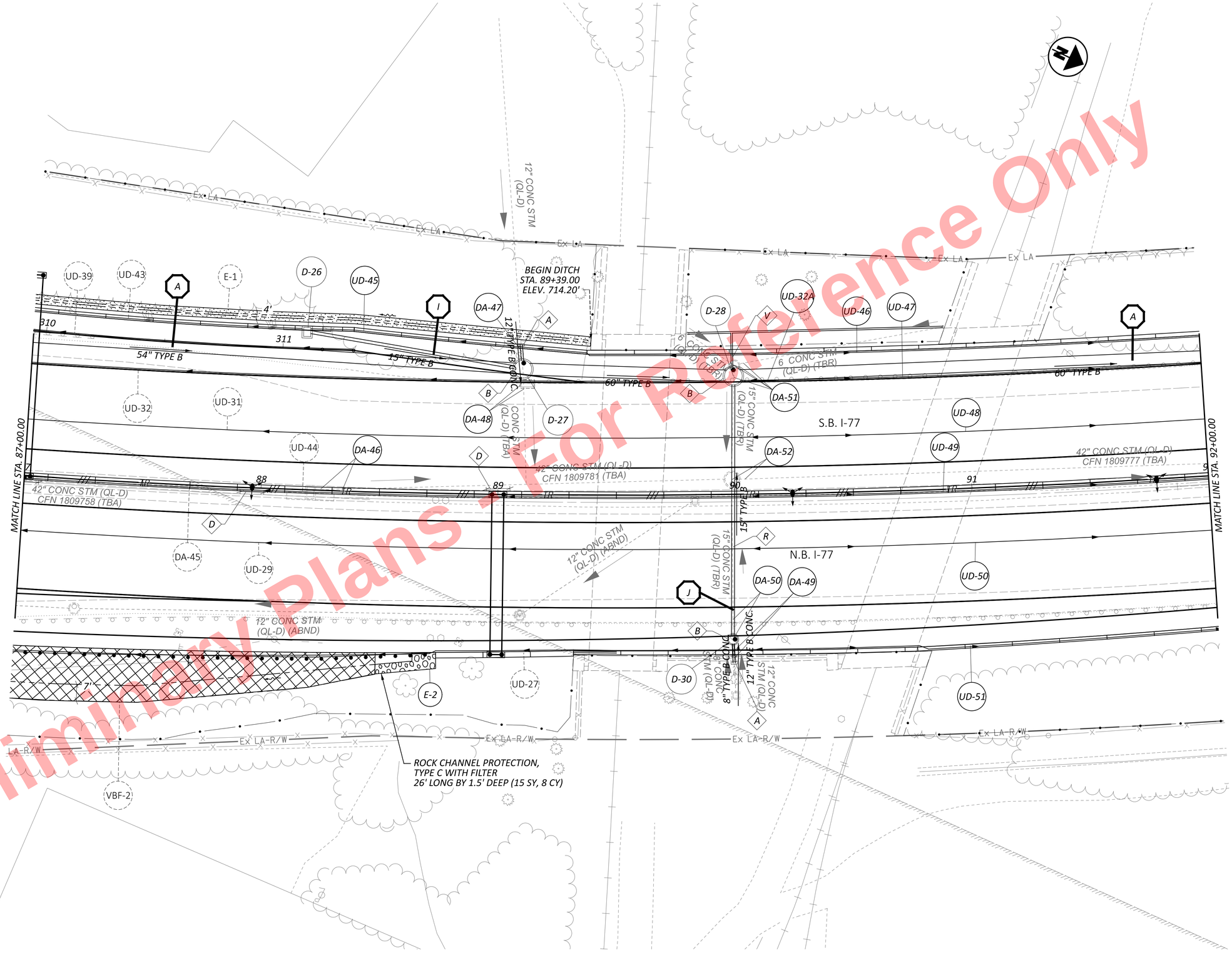
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 87+00.00 TO STA. 92+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.753 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 5 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:57:39 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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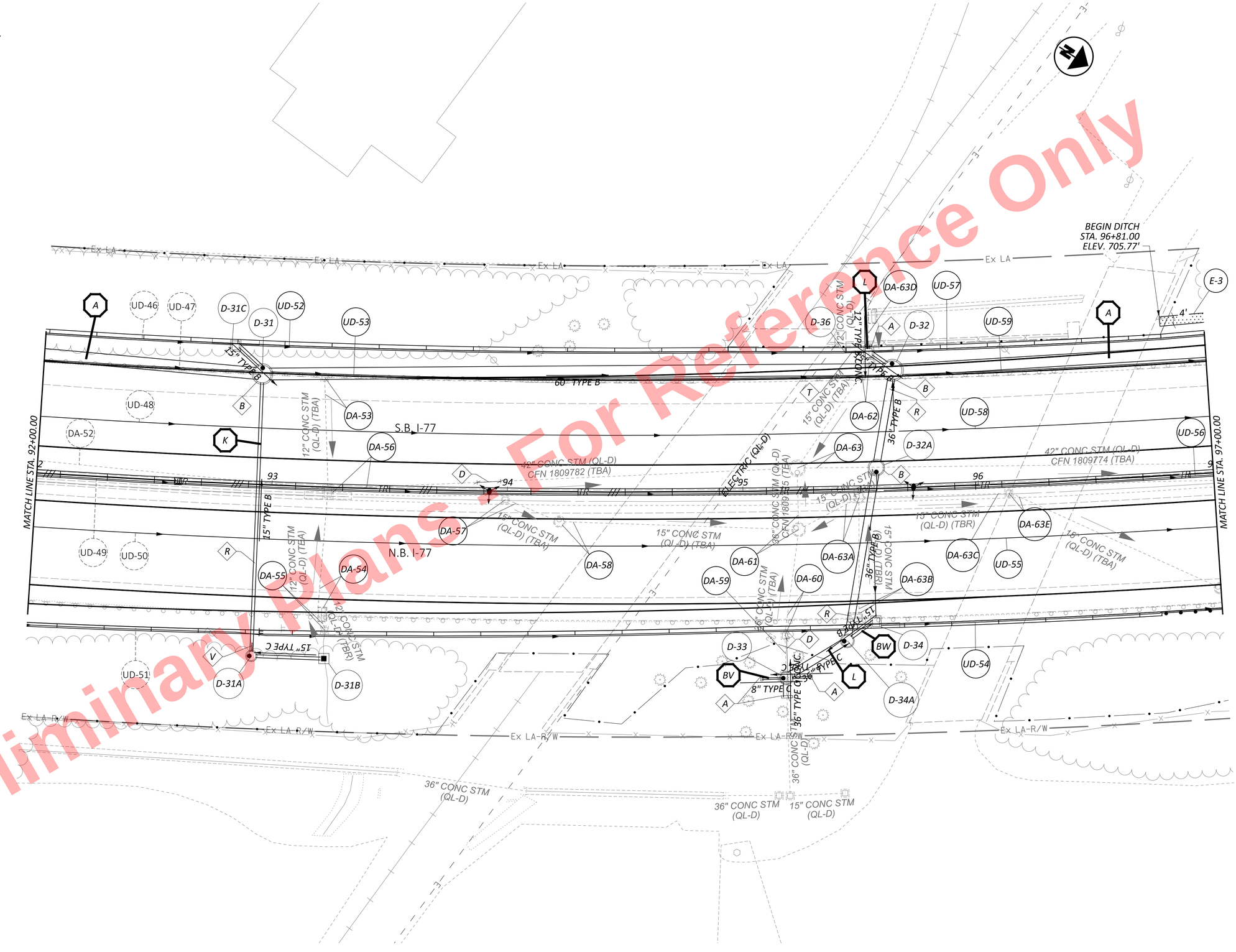
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 92+00.00 TO STA. 97+00.00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 6 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:57:49 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcxext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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DESIGN AGENCY
AECOM

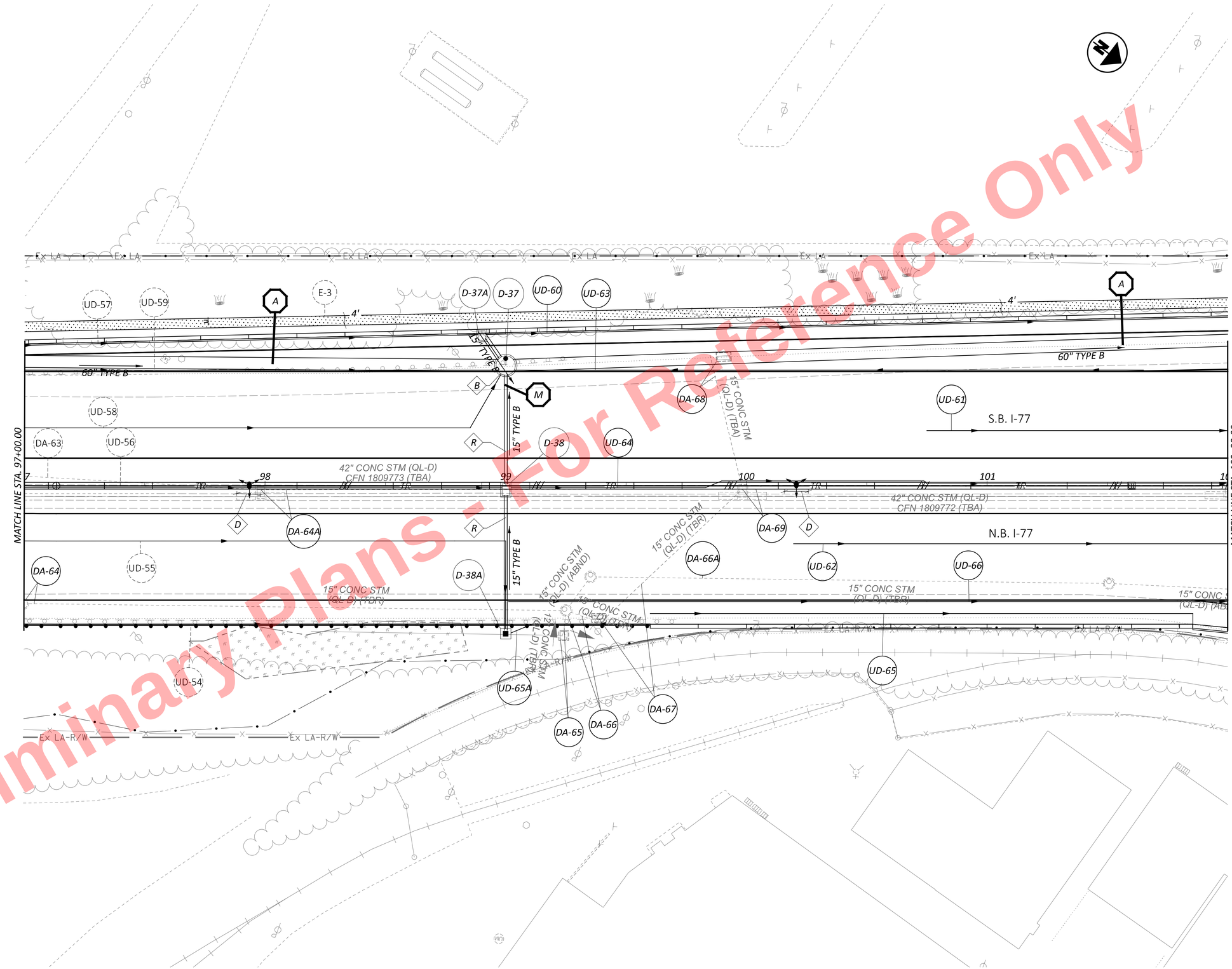
DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.754 TOTAL P.1269

NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 97+00.00 TO STA. 102+00.00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 7 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:57:59 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.755 TOTAL P.1269

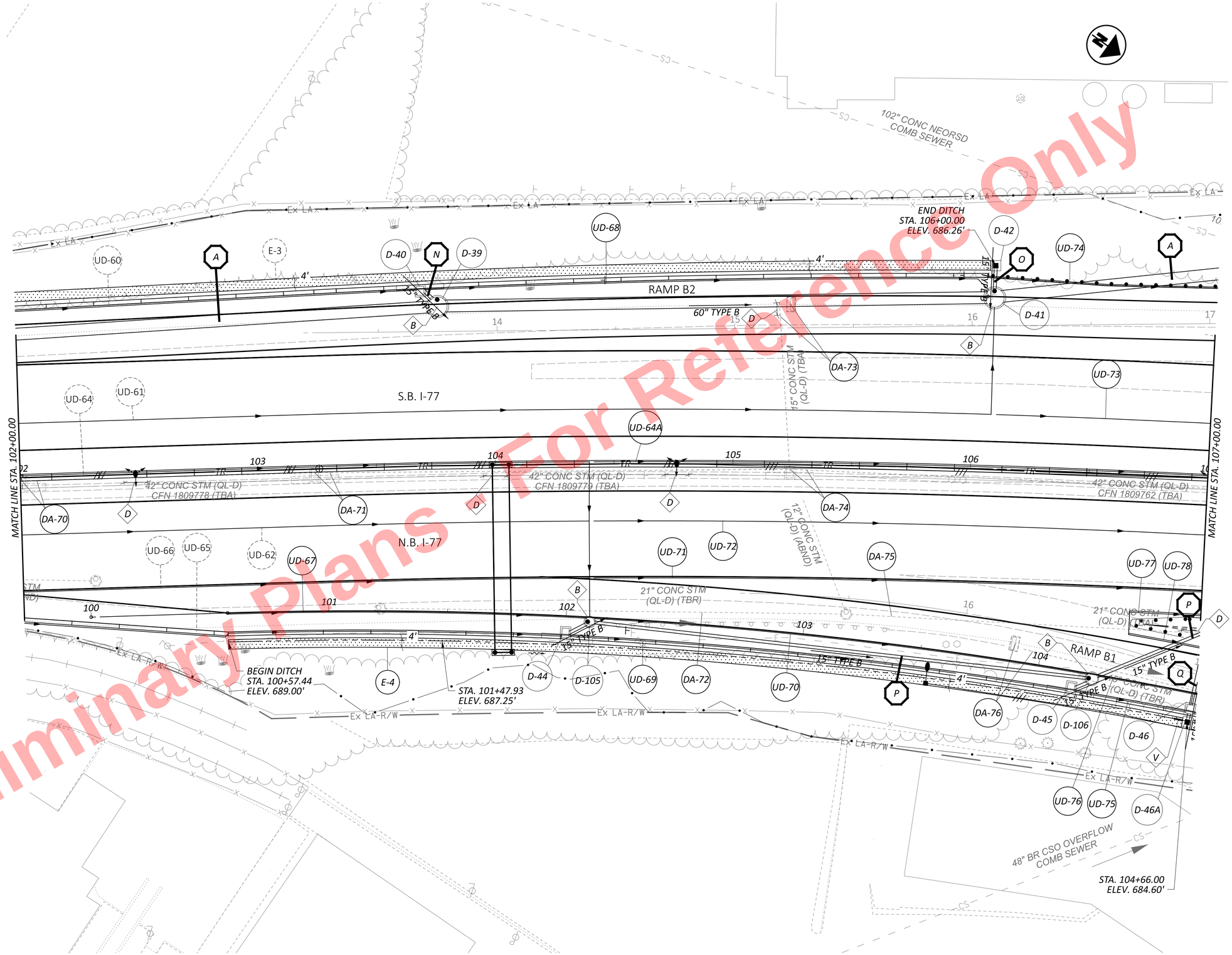
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR RAMP B1 DRAINAGE PLAN, SEE SHEET P.785

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 102+00.00 TO STA. 107+00.00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 8 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:58:10 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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DESIGN AGENCY
AECOM

DESIGNER	SMS
REVIEWER	AKM 05/01/26
PROJECT ID	105743
SHEET	P.756
TOTAL	P.1269

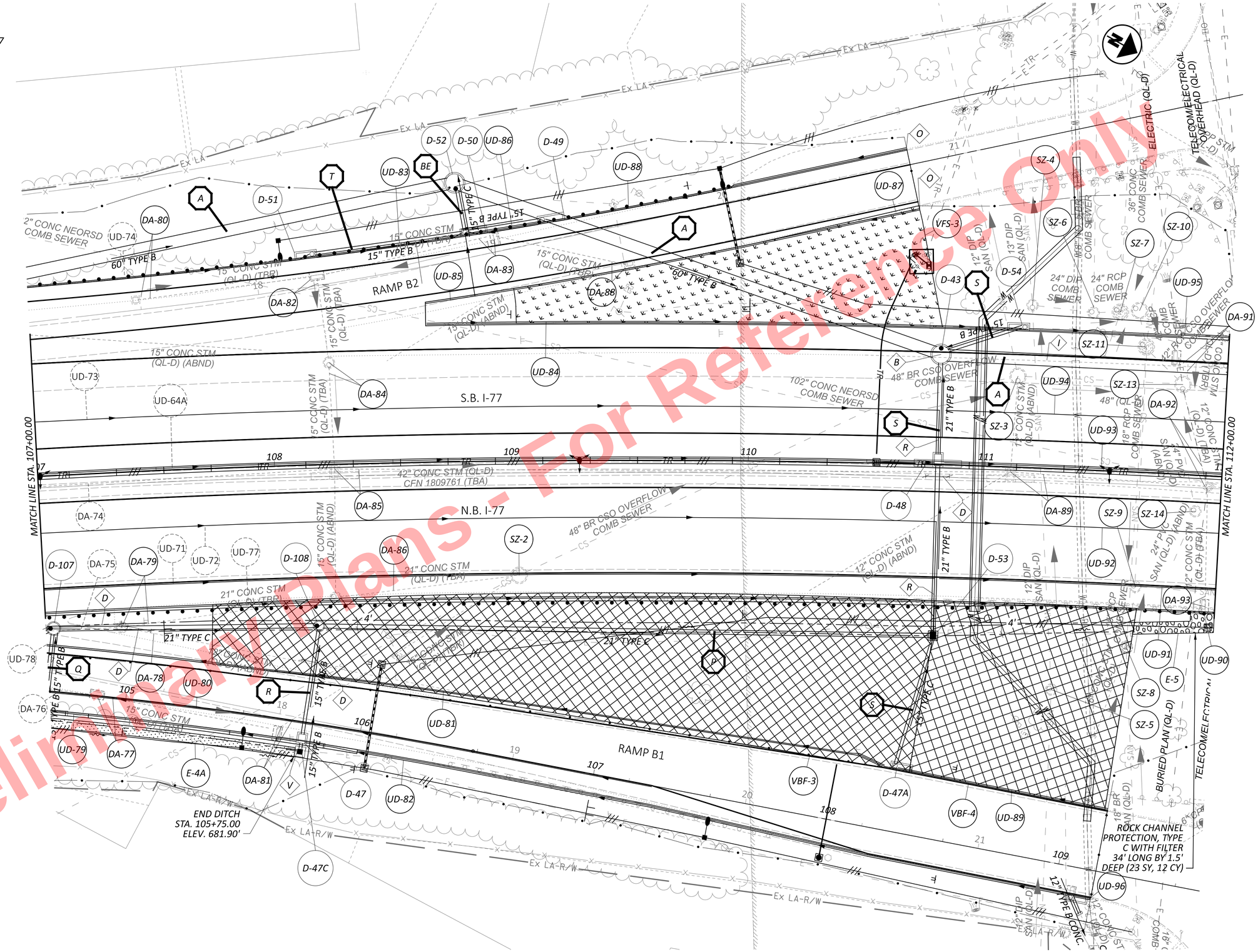
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR RAMP B1 DRAINAGE PLAN, SEE SHEET P.785

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 107+00.00 TO STA. 112+00.00

CUY-77-11.41 - PART 1

DESIGN AGENCY
AECOM

DESIGNER	SMS
REVIEWER	AKM 05/01/26
PROJECT ID	105743
SHEET	P.757
TOTAL	P.1269

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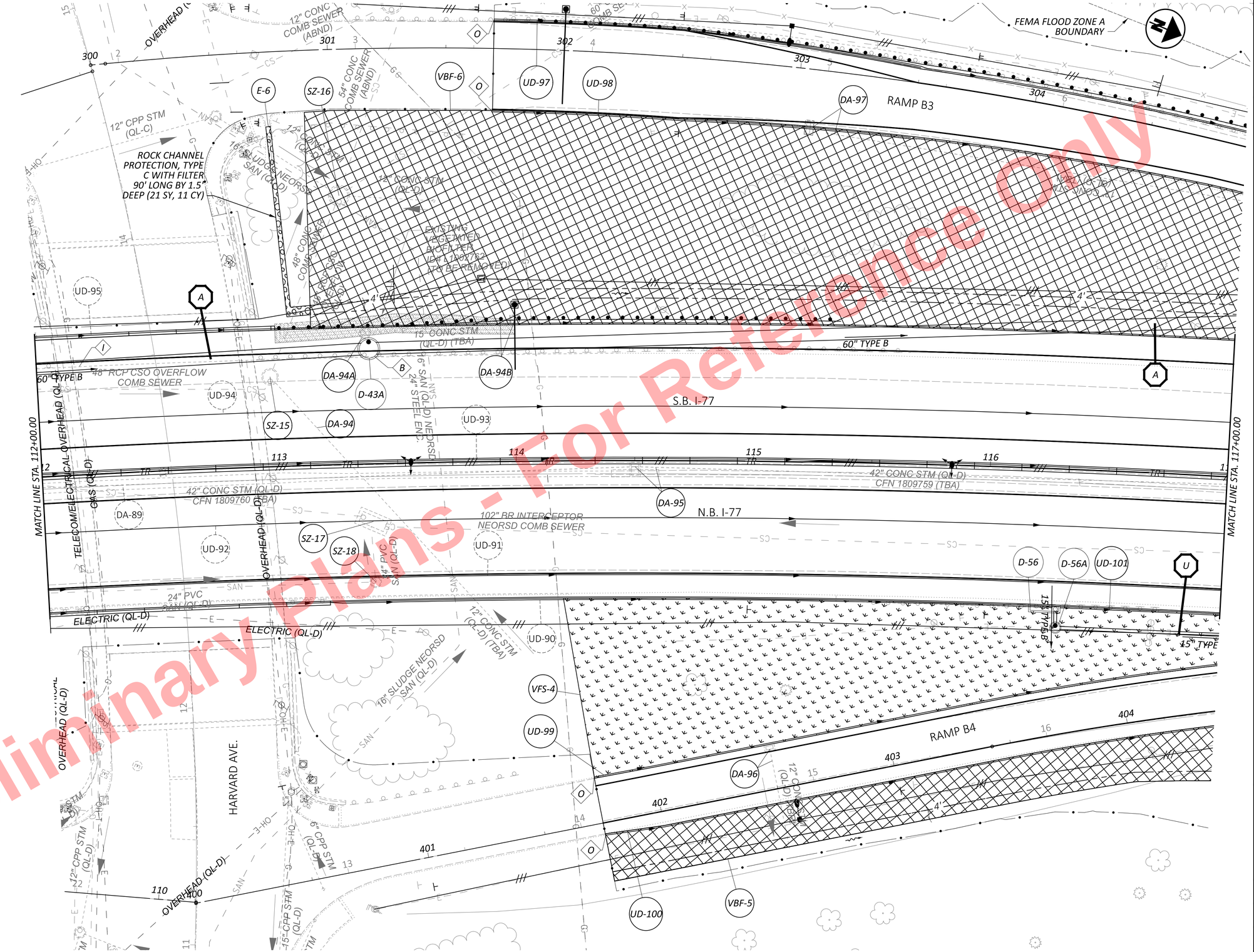
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 112+00.00 TO STA. 117+00.00

CUY-77-11.41 - PART 1

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.758 | TOTAL P.1269

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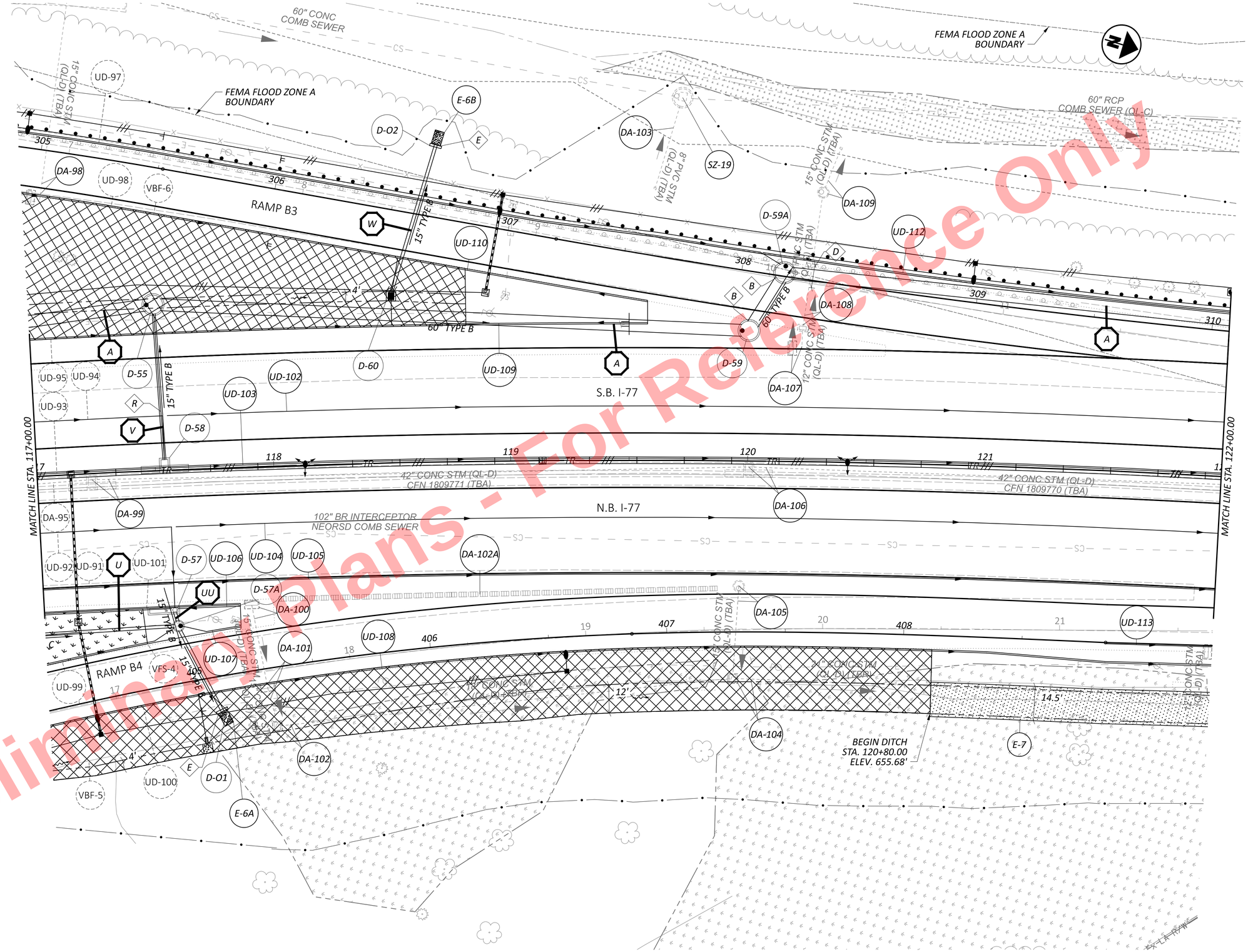
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



Preliminary Plans - For Reference Only

DRAINAGE PLAN - I.R. 77
STA. 117+00.00 TO STA. 122+00.00

DESIGN AGENCY	AECOM
DESIGNER	SMS
REVIEWER	AKM 05/01/26
PROJECT ID	105743
SHEET	P.759
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 11 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:58:42 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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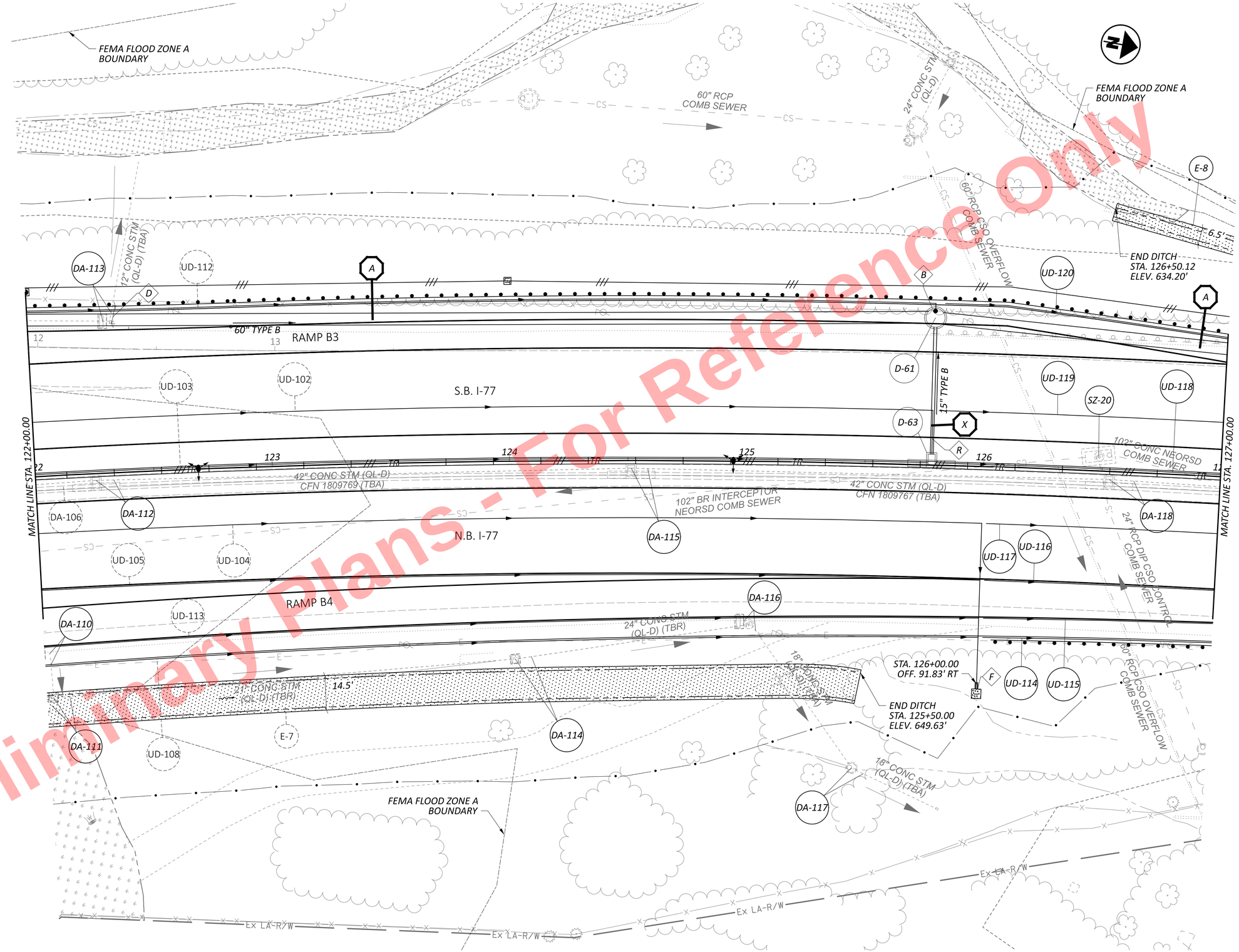
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 122+00.00 TO STA. 127+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.760 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 12 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:58:52 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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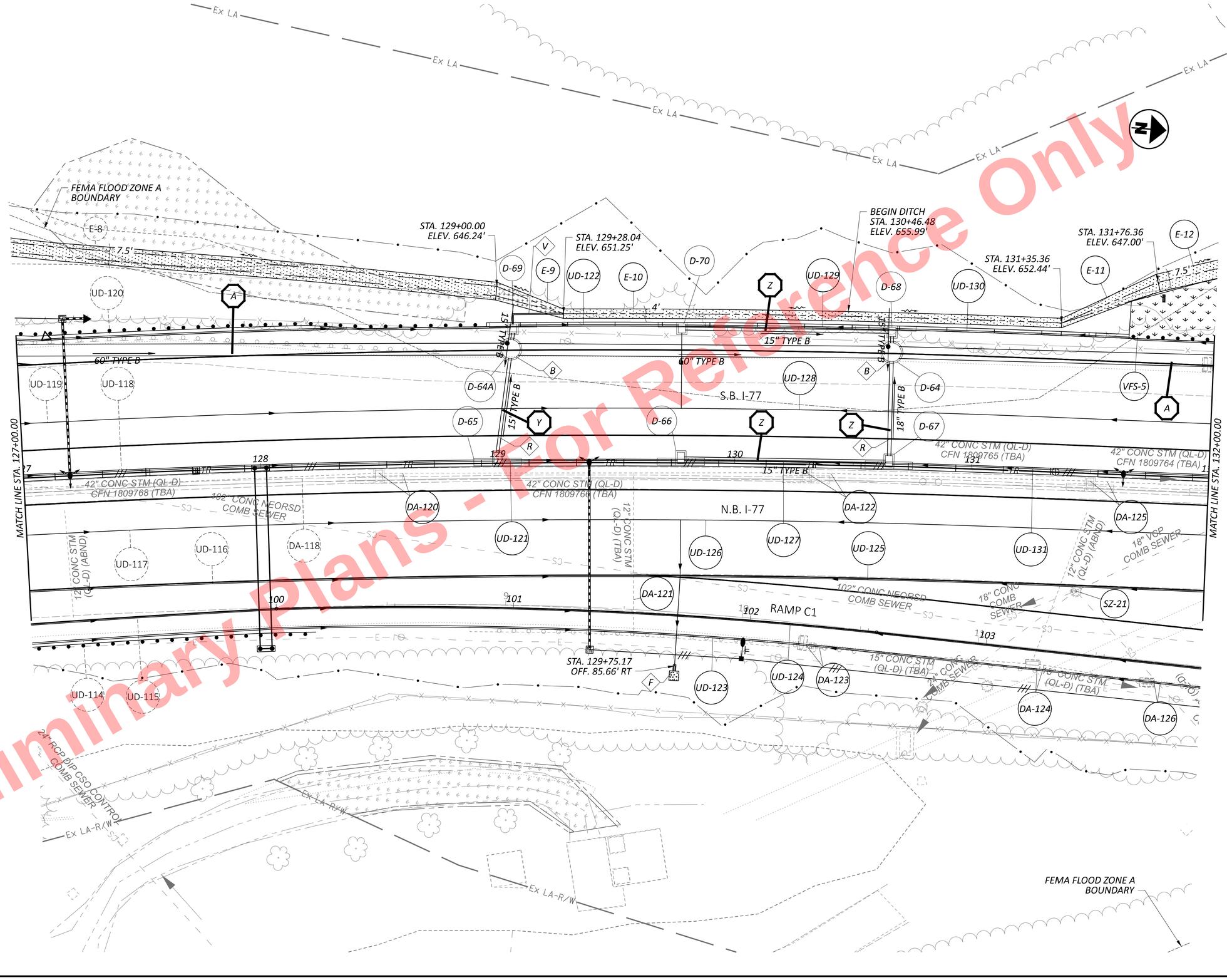
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 127+00.00 TO STA. 132+00.00

CUY-77-11.41 - PART 1

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.761 TOTAL P.1269

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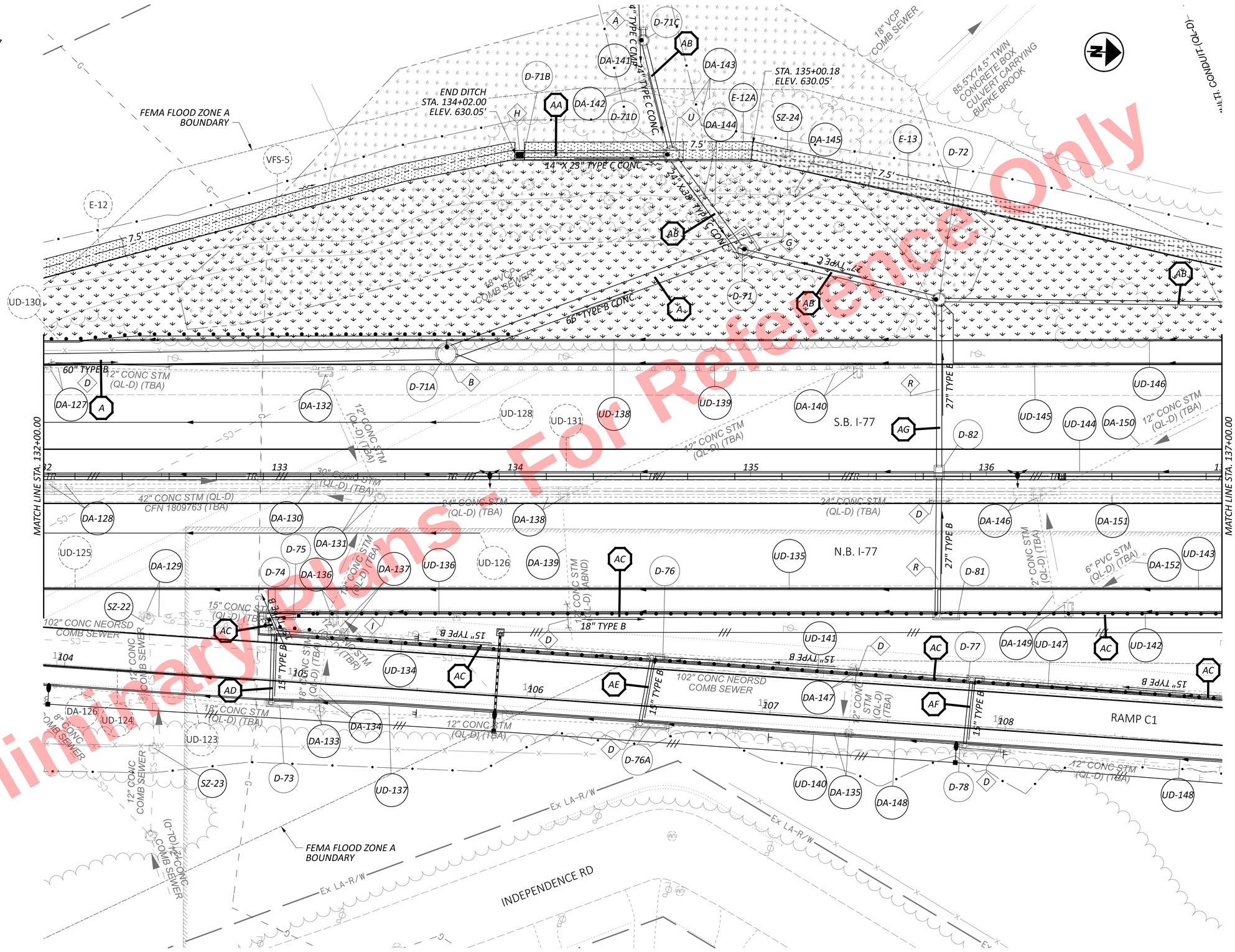
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



Preliminary Plans For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 132+00.00 TO STA. 137+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.762 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 14 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:59:15 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

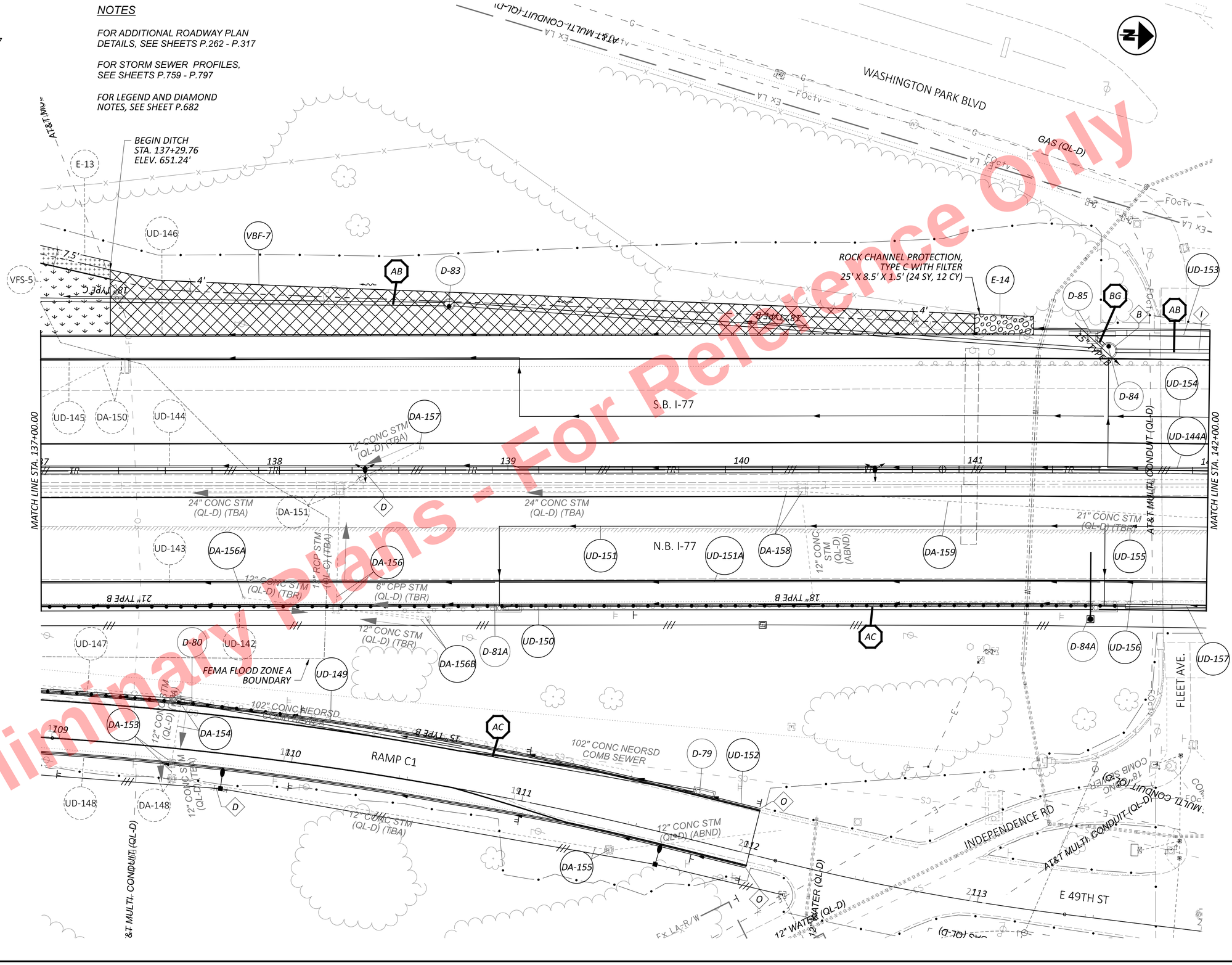
FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711

NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.759 - P.797

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.682



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 137+00.00 TO STA. 142+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.763 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 15 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:59:26 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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sydney.stefanek@trcext.com

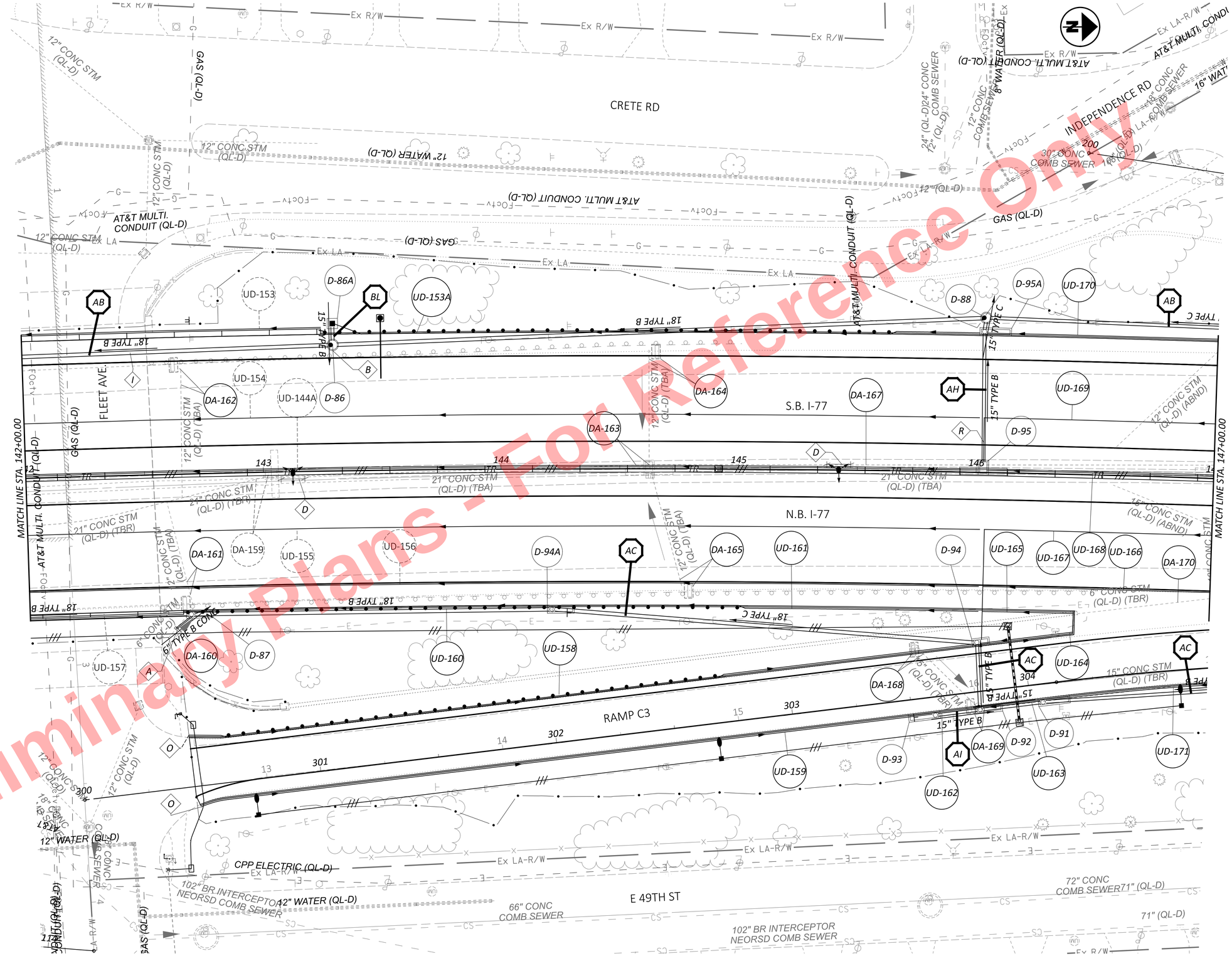
Preliminary Plans - For Reference Only

NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 142+00.00 TO STA. 147+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.764 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 16 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:59:36 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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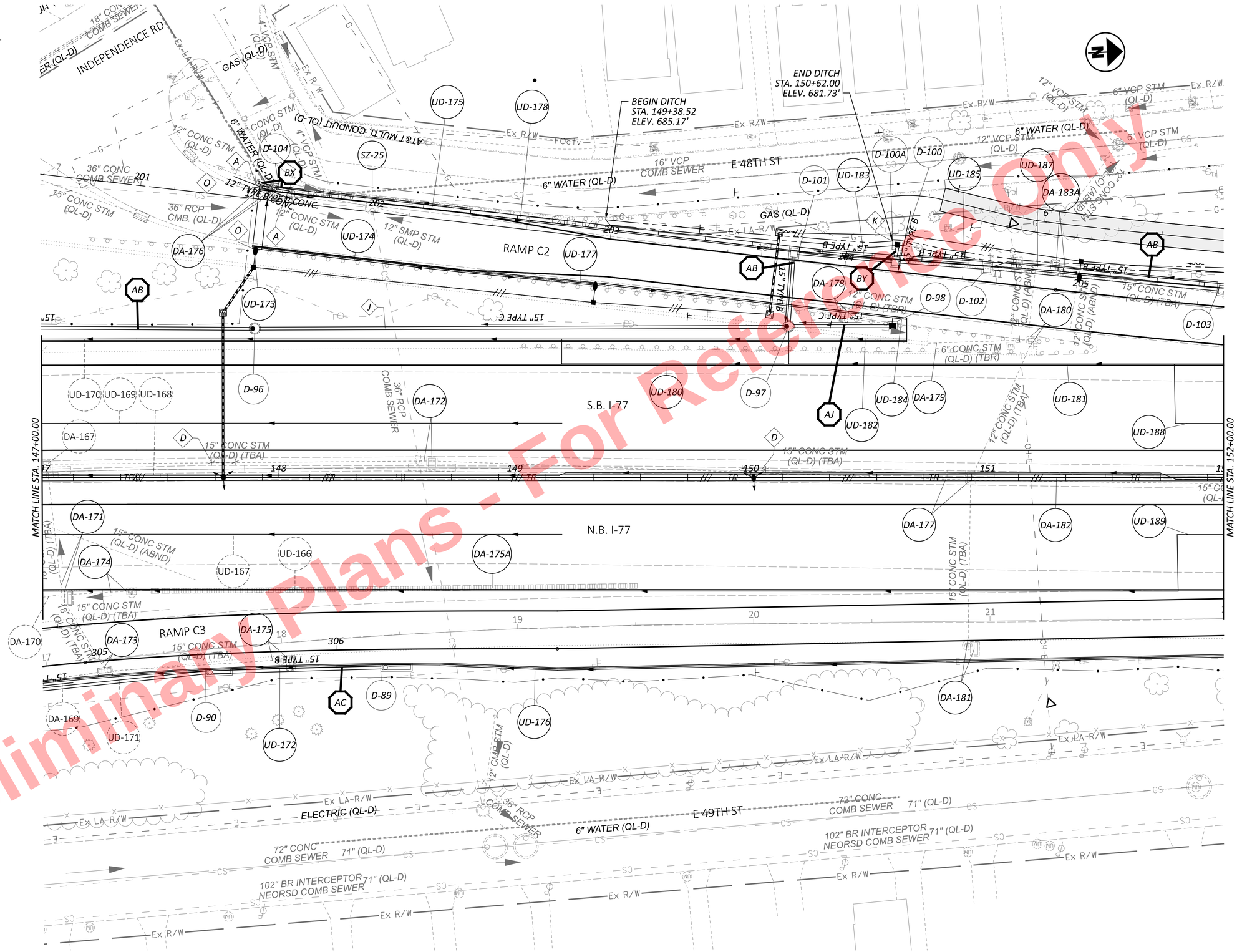
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 147+00.00 TO STA. 152+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.765 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 17 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 1:59:49 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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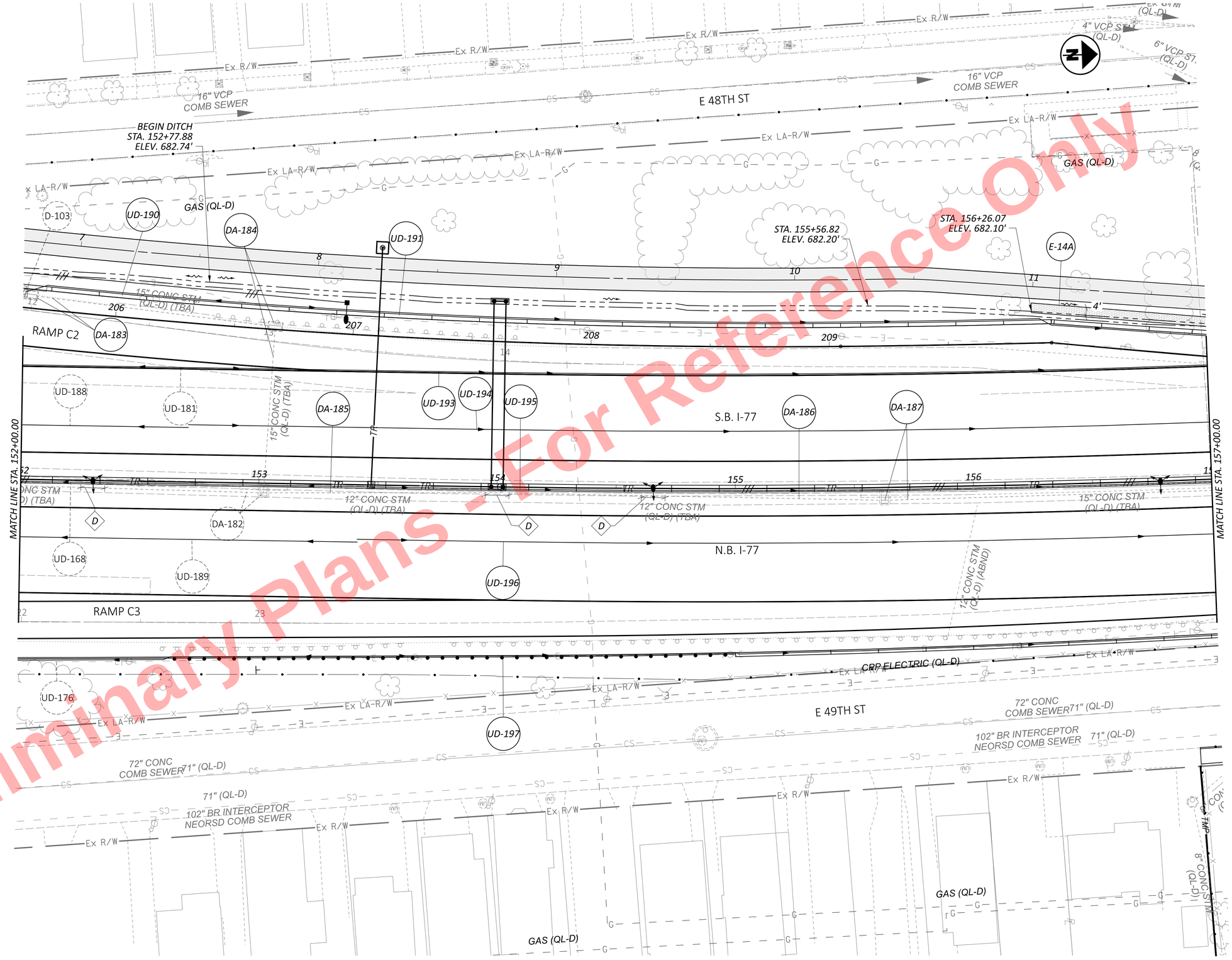
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 152+00.00 TO STA. 157+00.00

DESIGN AGENCY	AECOM
DESIGNER	SMS
REVIEWER	AKM 05/01/26
PROJECT ID	105743
SHEET	P.766
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 18 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:00:02 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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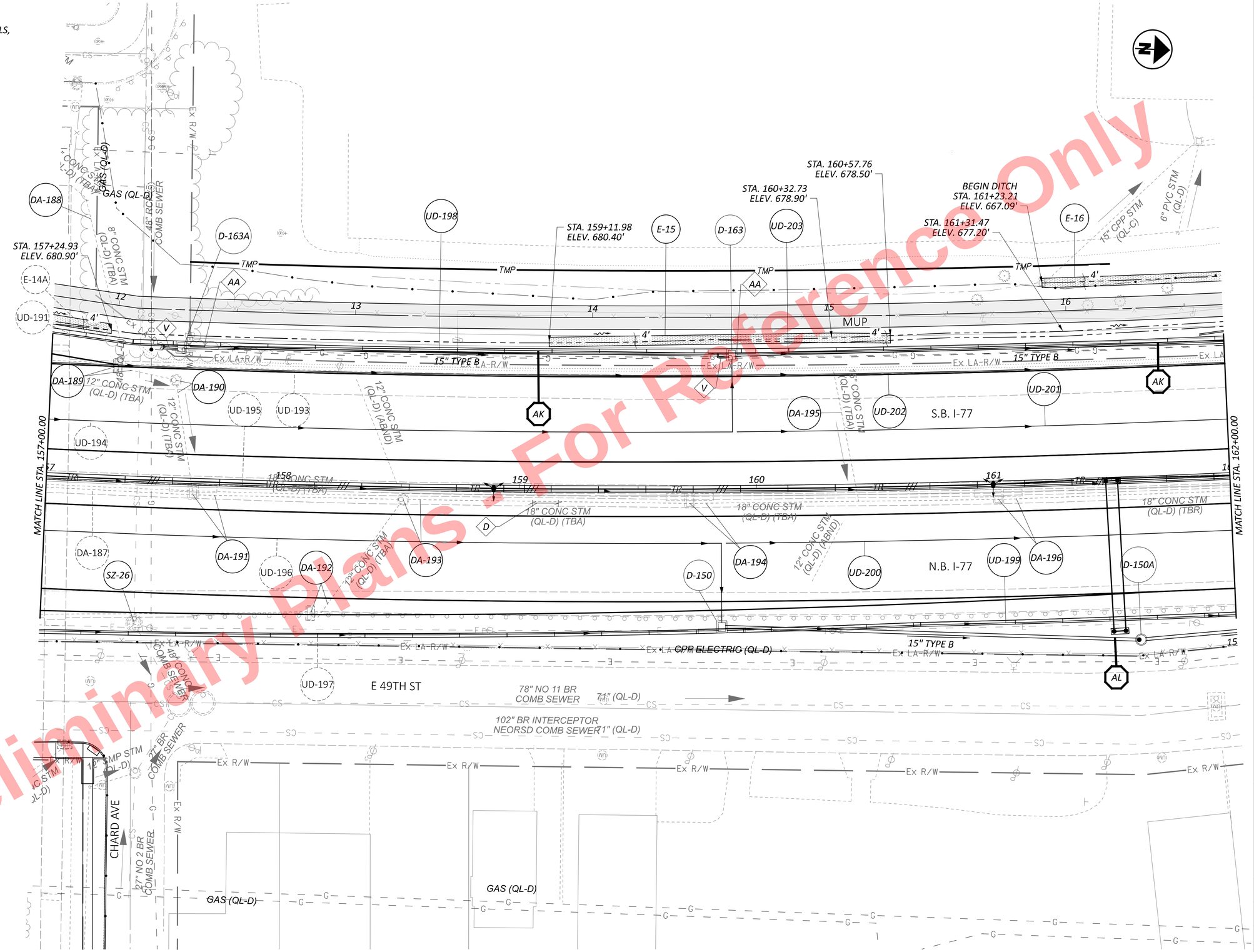
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 157+00.00 TO STA. 162+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.767 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 19 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:00:13 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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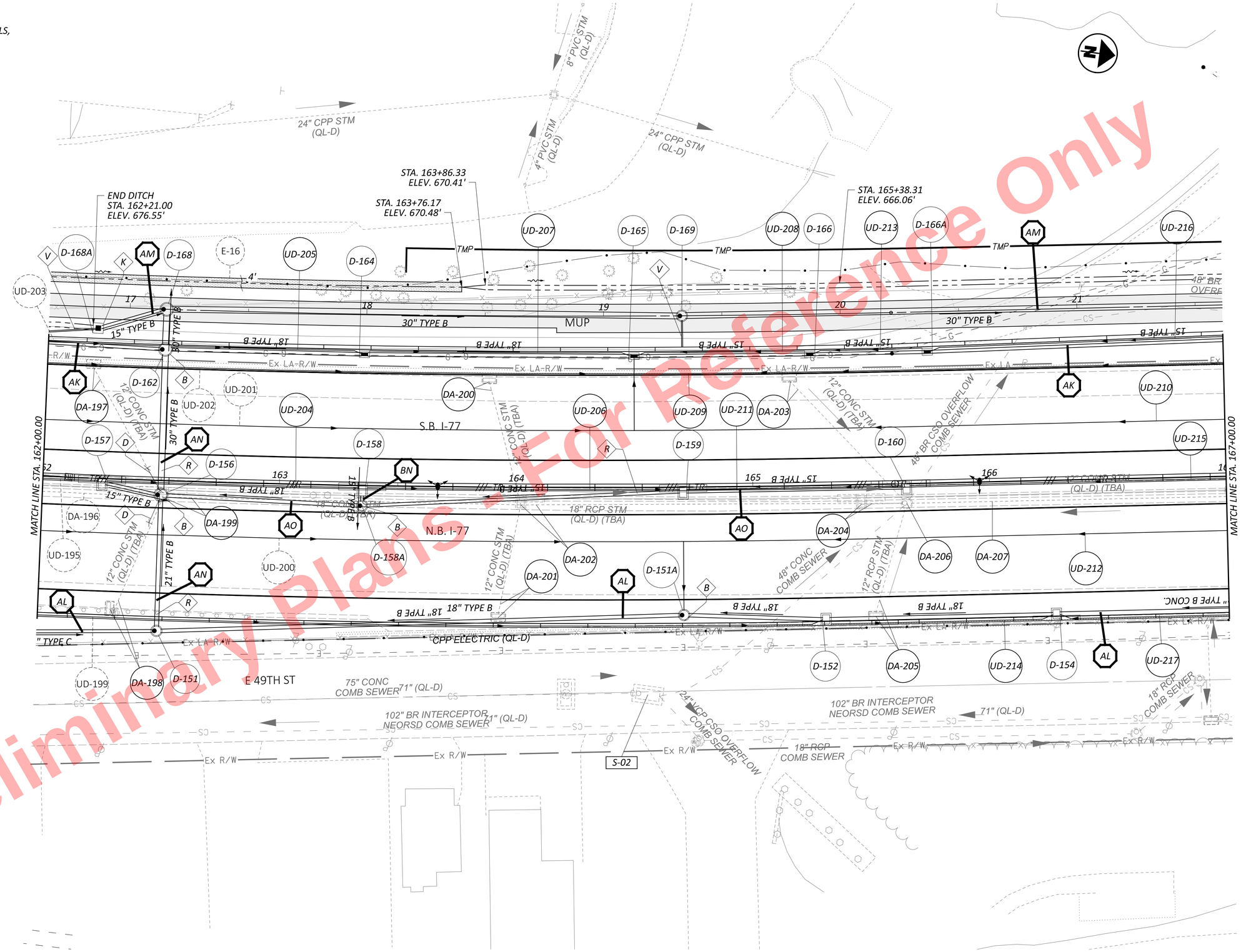
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS,
SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES,
SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES,
SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 162+00.00 TO STA. 167+00.00

DESIGN AGENCY
AECOM

DESIGNER	SMS
REVIEWER	AKM 05/01/26
PROJECT ID	105743
SHEET	P.768
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 20 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:00:24 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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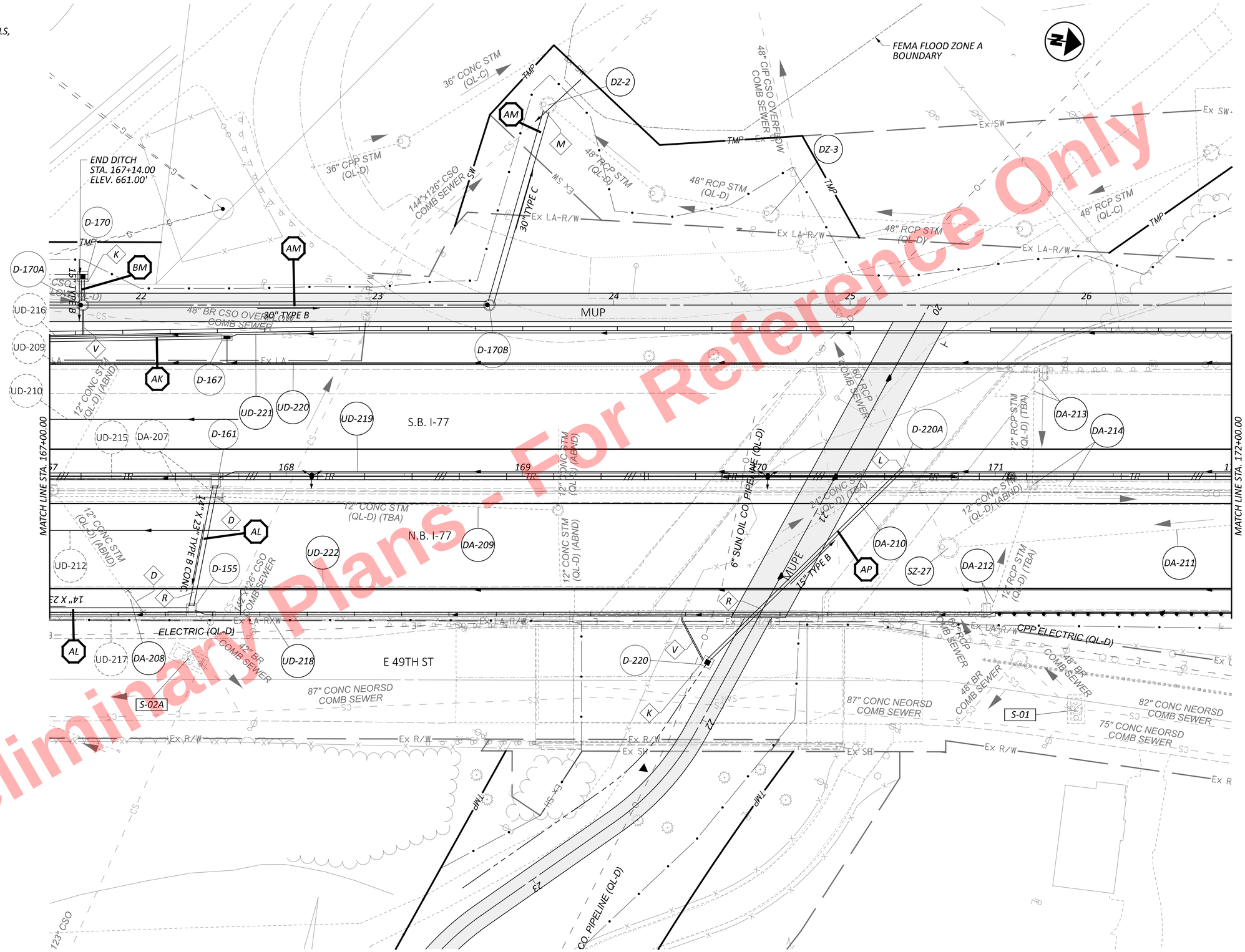
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 167+00.00 TO STA. 172+00.00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 21 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:00:37 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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DESIGN AGENCY
AECOM

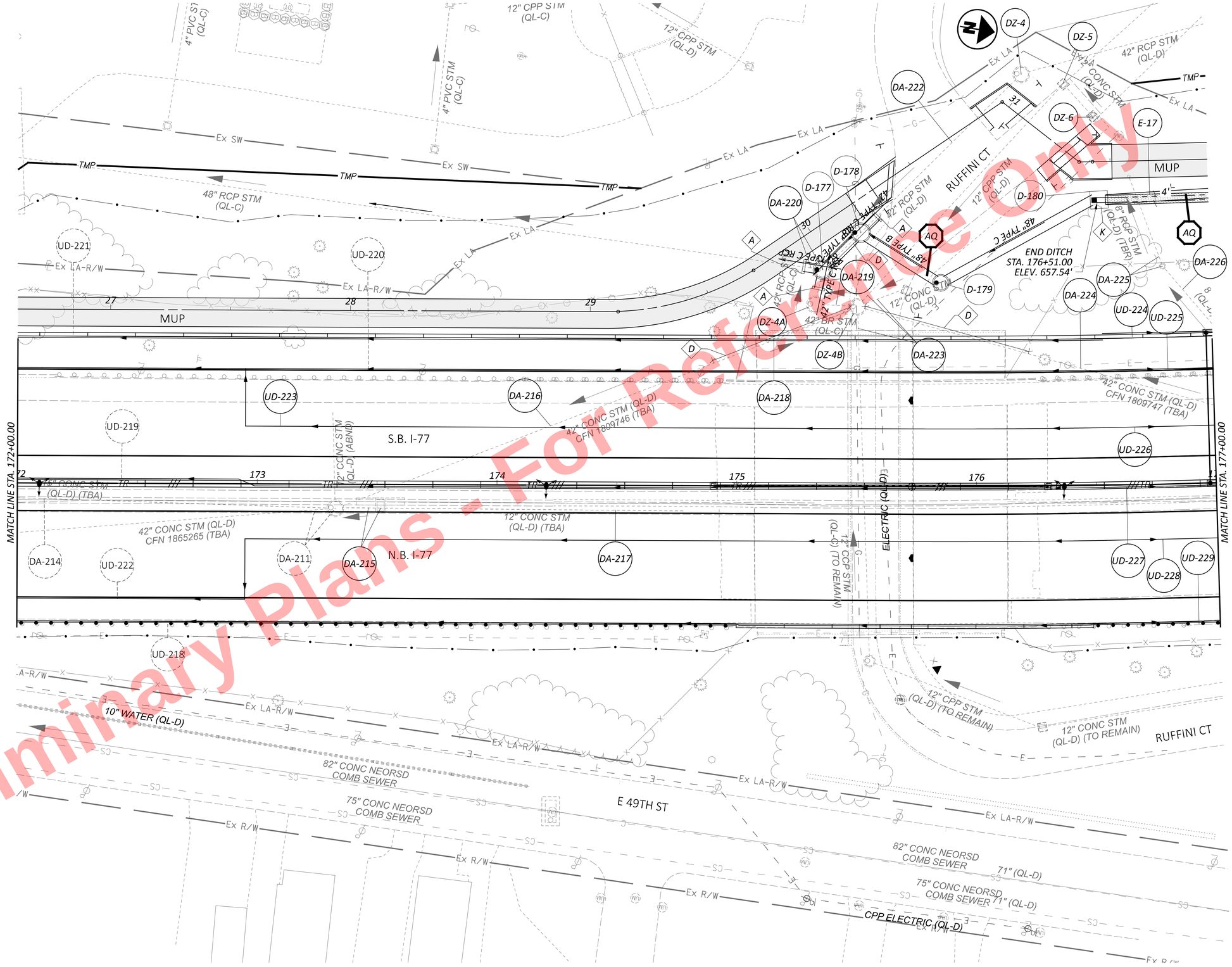
DESIGNER	SMS
REVIEWER	AKM 05/01/26
PROJECT ID	105743
SHEET	P.769
TOTAL	P.1269

NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 172+00.00 TO STA. 177+00.00

DESIGN AGENCY	AECOM
DESIGNER	SMS
REVIEWER	AKM 05/01/26
PROJECT ID	105743
SHEET	P.770
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 22 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:00:55 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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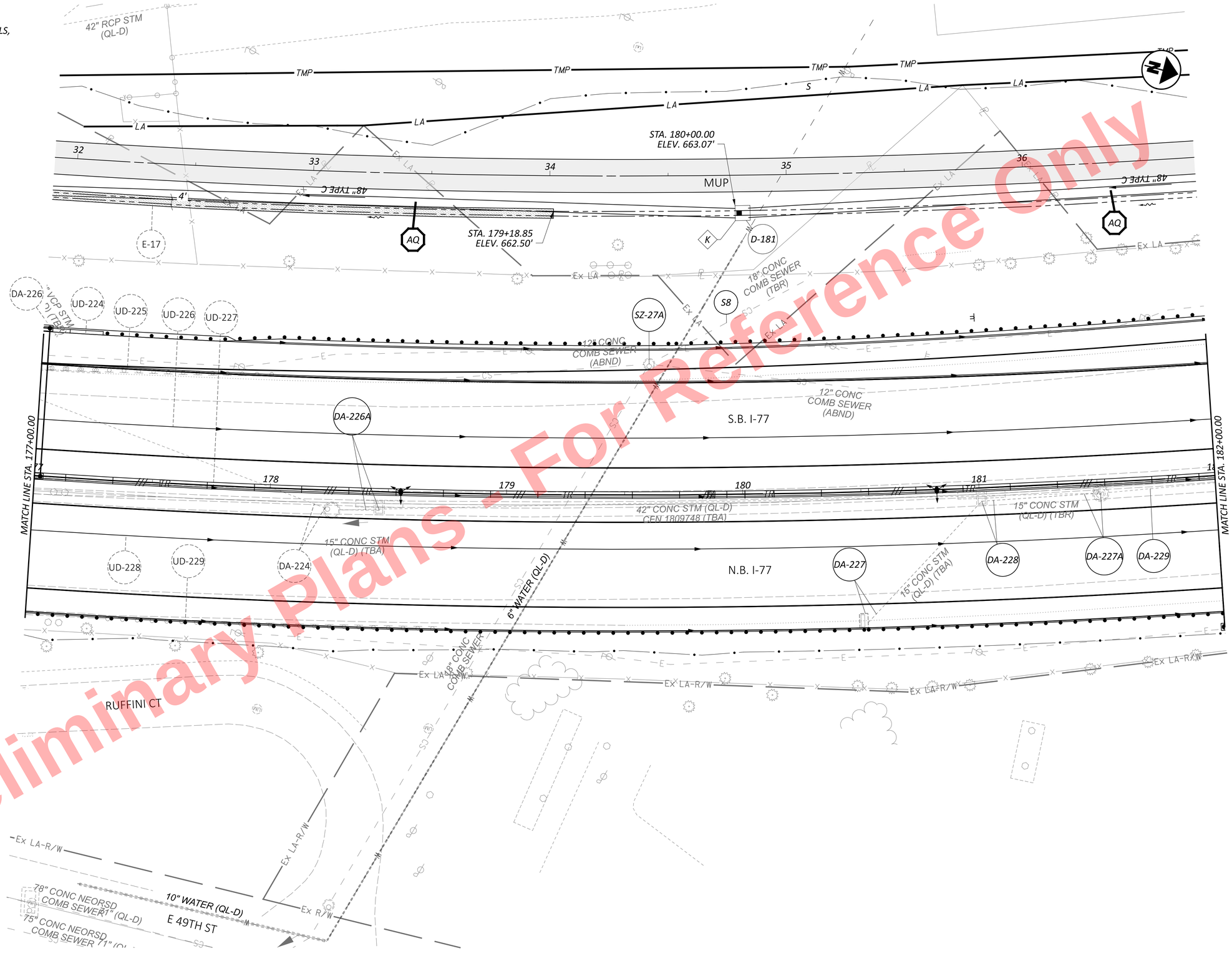
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 177+00.00 TO STA. 182+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.771 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 23 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:01:06 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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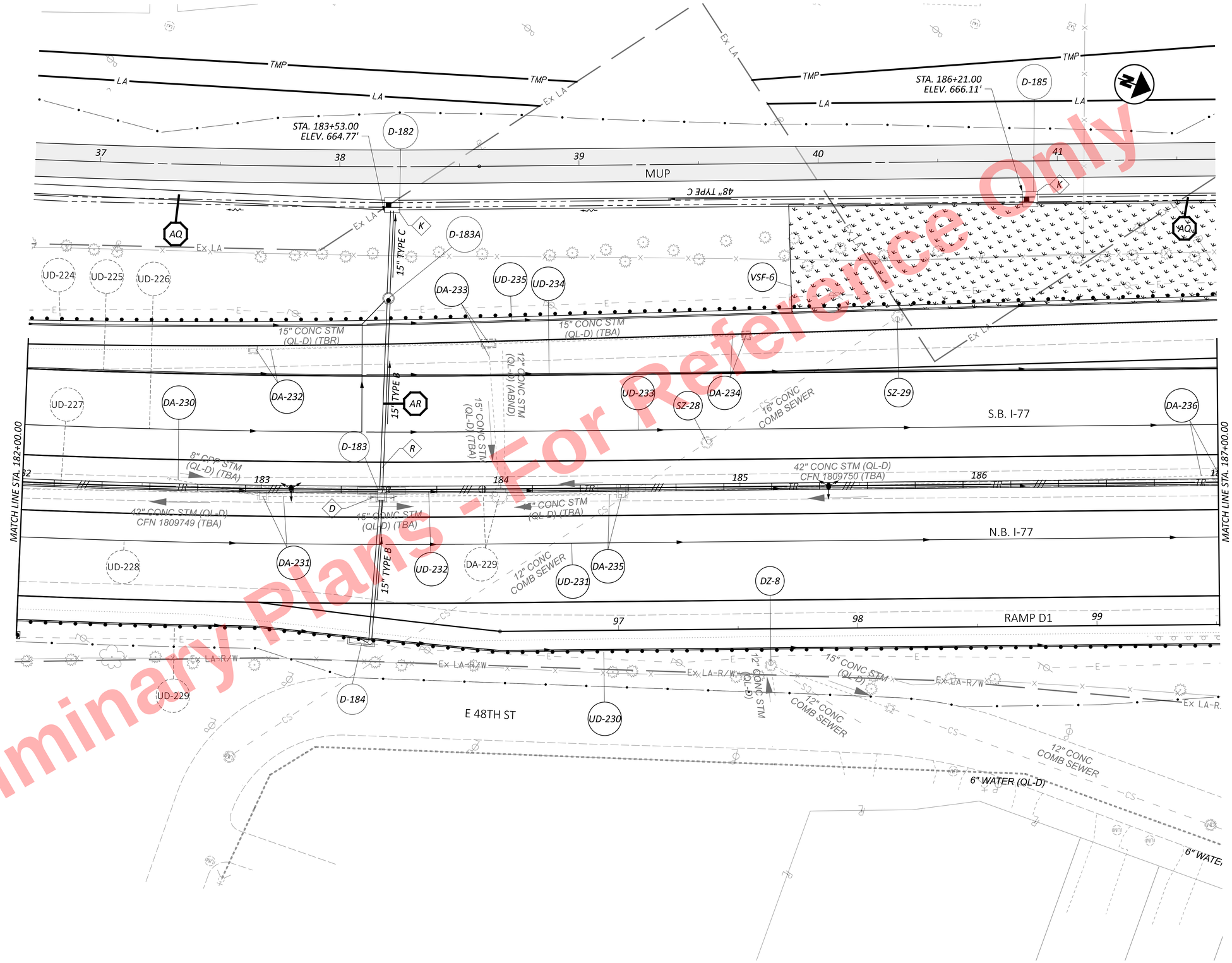
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 182+00.00 TO STA. 187+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.772 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 24 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:01:17 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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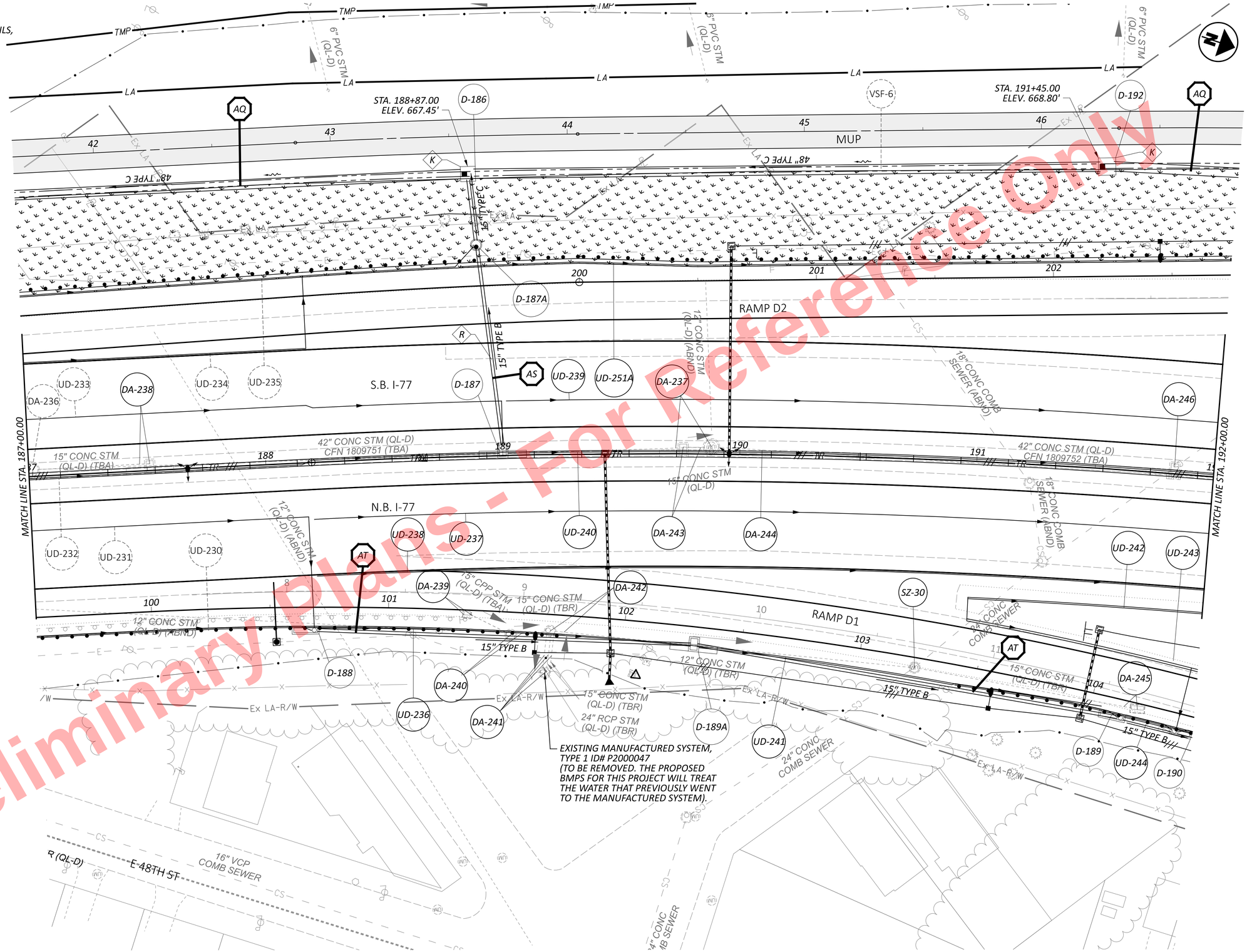
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



EXISTING MANUFACTURED SYSTEM, TYPE 1 ID# P2000047 (TO BE REMOVED. THE PROPOSED BMPS FOR THIS PROJECT WILL TREAT THE WATER THAT PREVIOUSLY WENT TO THE MANUFACTURED SYSTEM).

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 187+00.00 TO STA. 192+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.773 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 25 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:01:27 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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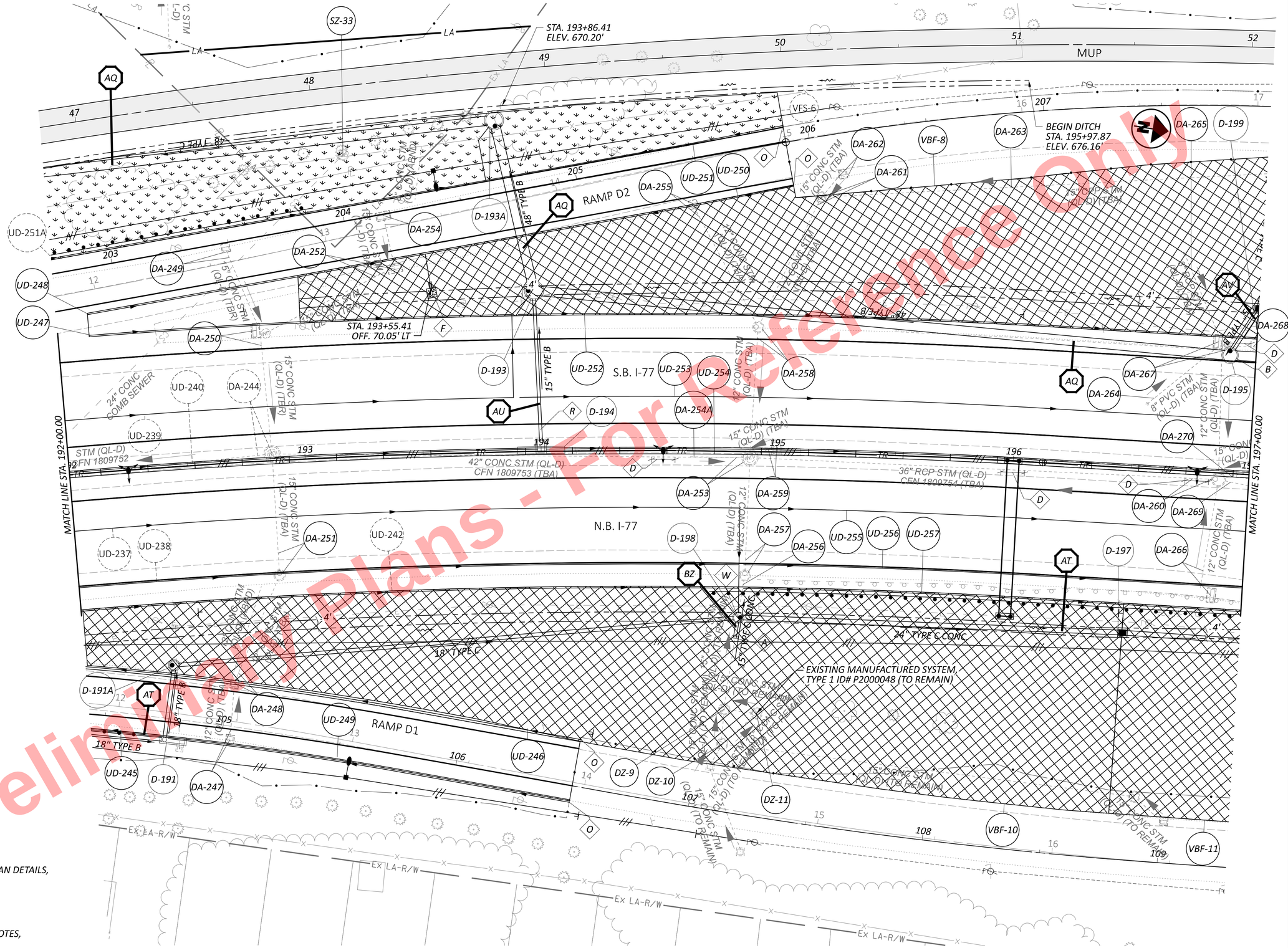
Preliminary Plans - For Reference Only



NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 192+00.00 TO STA. 197+00.00

DESIGN AGENCY
AECOM

DESIGNER	SMS
REVIEWER	AKM 05/01/26
PROJECT ID	105743
SHEET	P.774
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 26 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:01:38 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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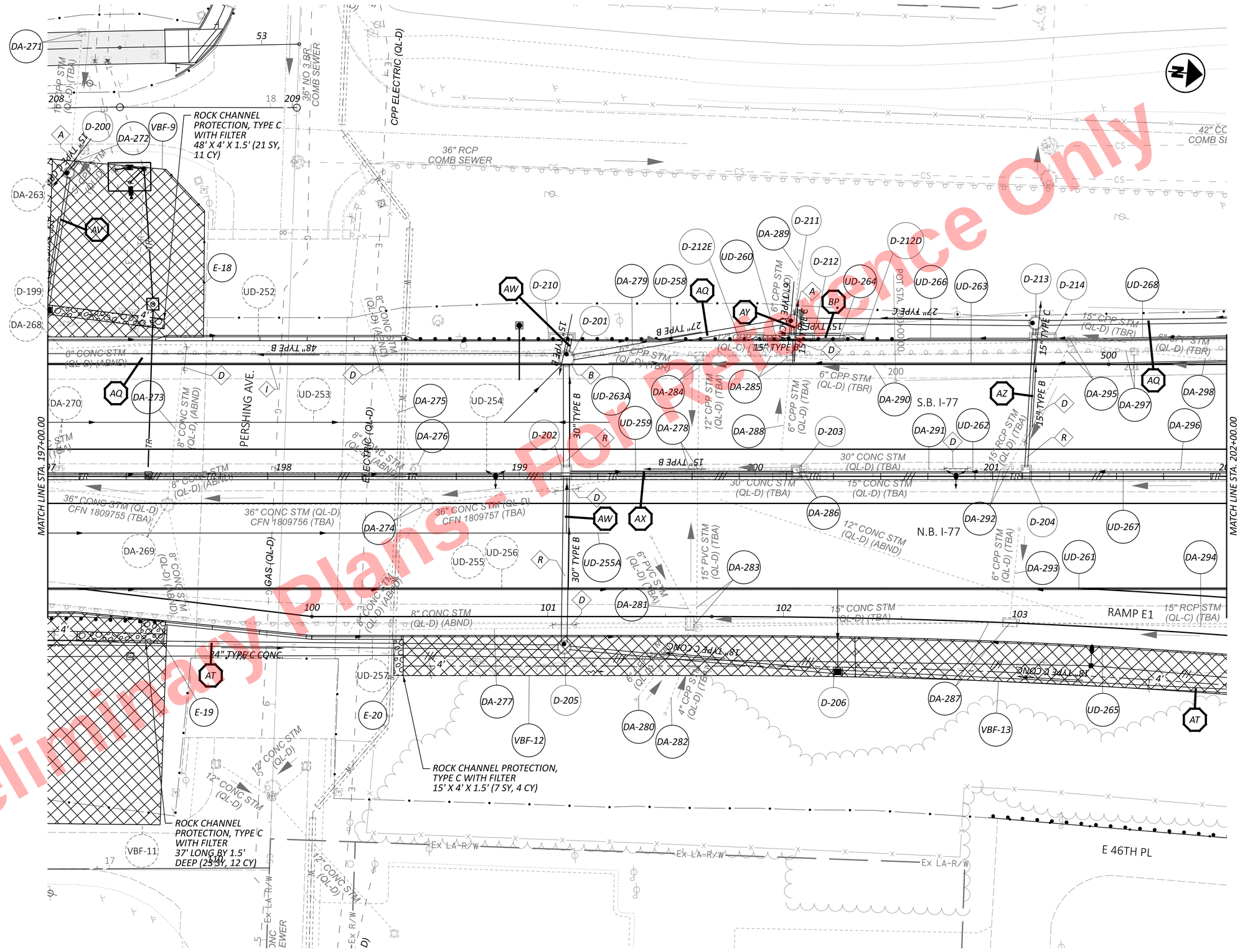
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR RAMP E1 DRAINAGE PLAN, SEE SHEETS P.786 - P.787

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 197+00.00 TO STA. 202+00.00

DESIGN AGENCY	AECOM
DESIGNER	SMS
REVIEWER	AKM 05/01/26
PROJECT ID	105743
SHEET	P.775
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 27 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:01:49 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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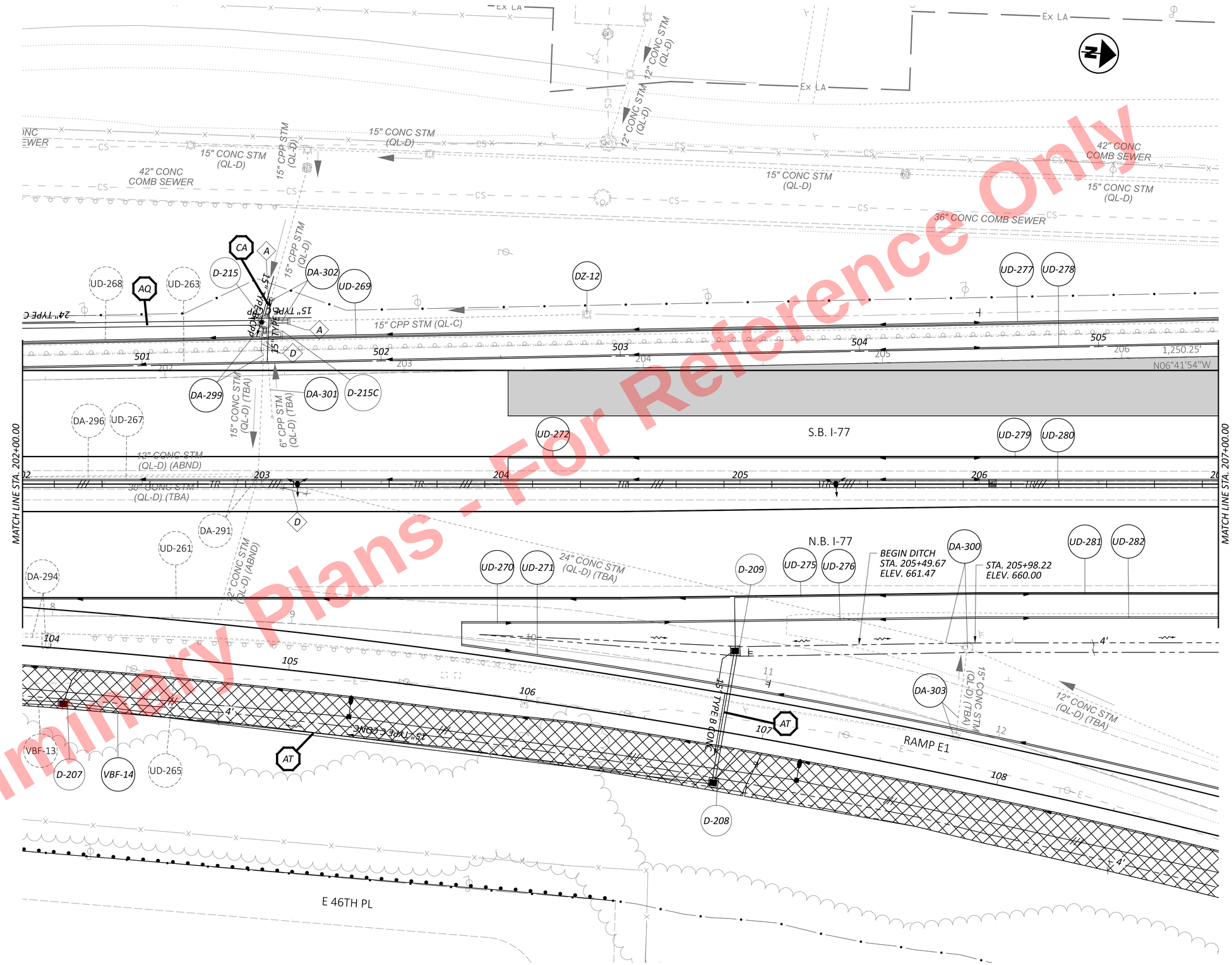
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS,
SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES,
SEE SHEETS P.788 - P.826

FOR RAMP E1 DRAINAGE PLAN,
SEE SHEETS P.786 - P.787

FOR LEGEND AND DIAMOND NOTES,
SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 202+00.00 TO STA. 207+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.776 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 28 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:02:00 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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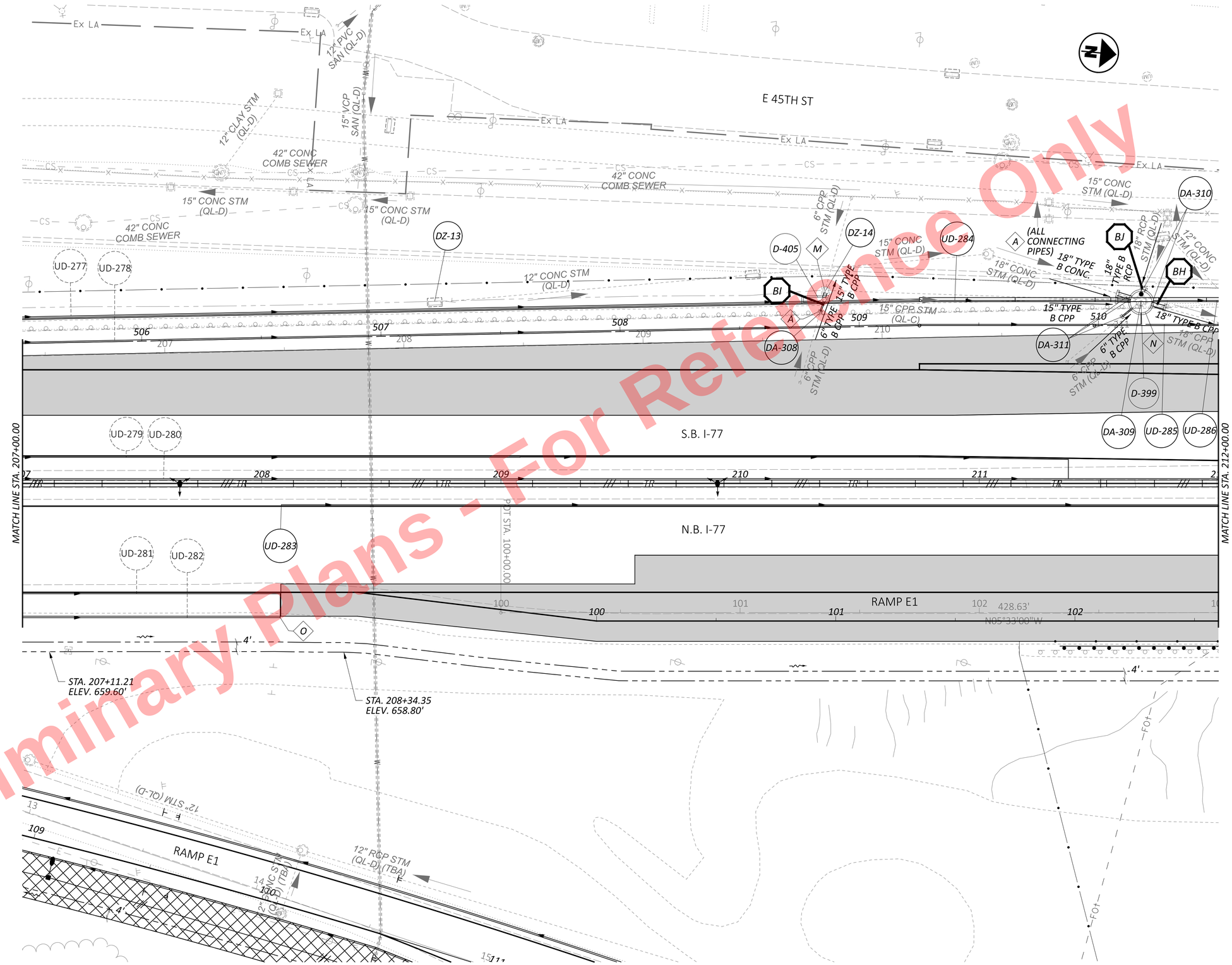
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS,
SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES,
SEE SHEETS P.788 - P.826

FOR RAMP E1 DRAINAGE PLAN,
SEE SHEETS P.786 - P.787

FOR LEGEND AND DIAMOND NOTES,
SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 207+00.00 TO STA. 212+00.00

CUY-77-11.41 - PART 1

MODEL: CLP_i077 - Plan 29 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:02:11 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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DESIGN AGENCY
AECOM

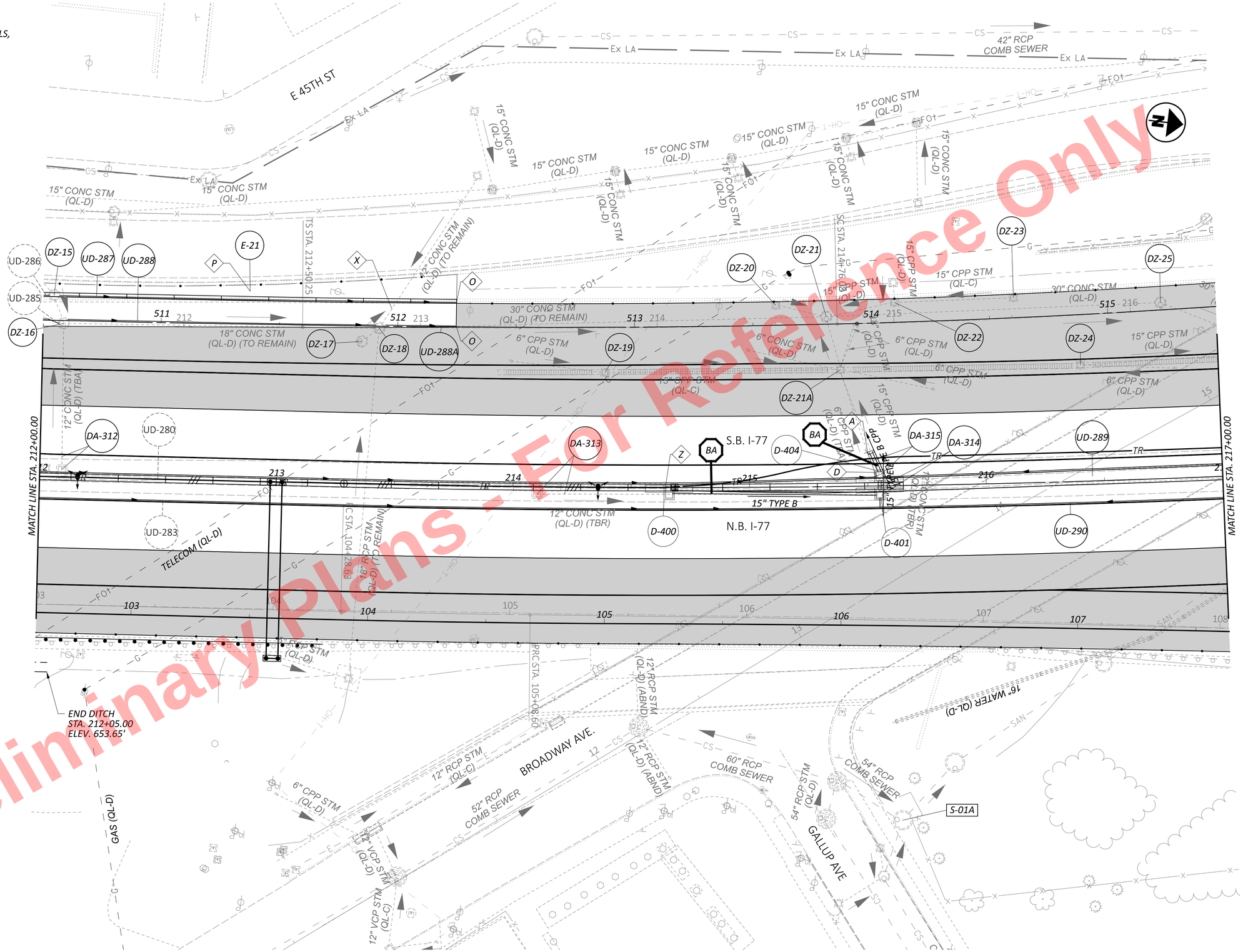
DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.777 TOTAL P.1269

NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS,
SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES,
SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES,
SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 212+00.00 TO STA. 217+00.00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 30 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:02:24 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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DESIGN AGENCY
AECOM

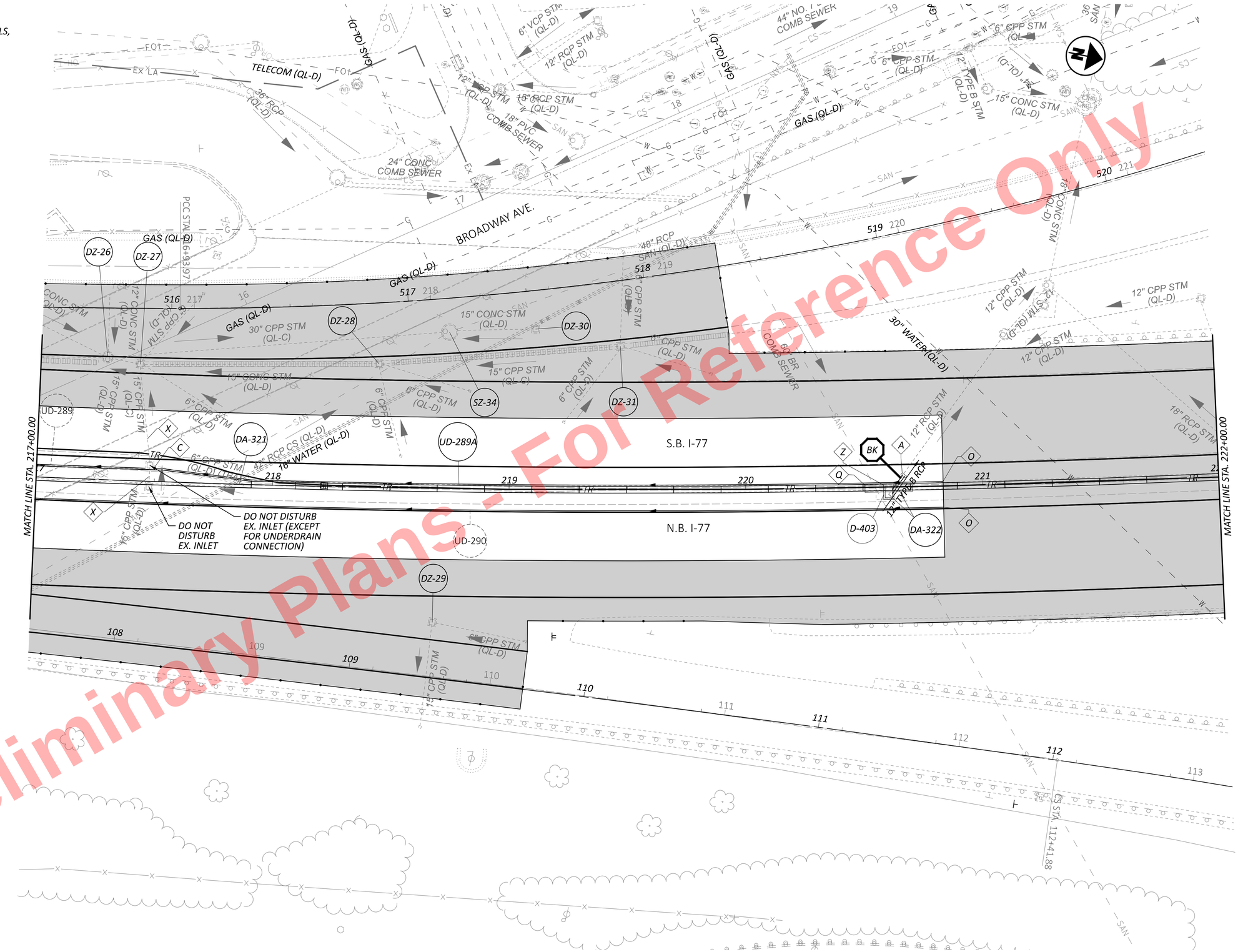
DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.778 TOTAL P.1269

NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 217+00.00 TO STA. 222+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.779 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 31 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:02:35 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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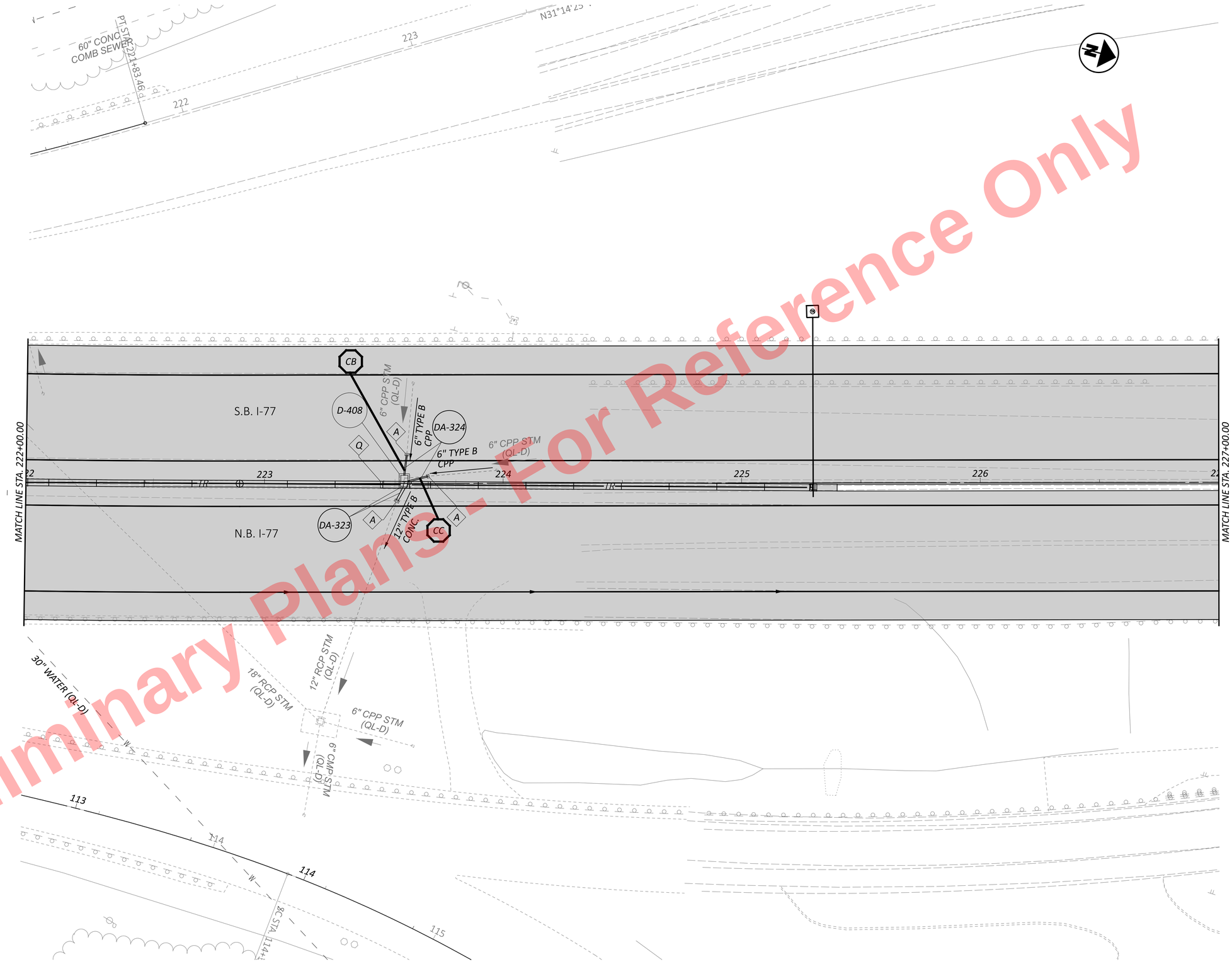
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS,
SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES,
SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES,
SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 222+00.00 TO STA. 227+00.00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 32 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:02:47 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.780 TOTAL P.1269

MODEL: BLP_R283A3 - A3 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:03:00 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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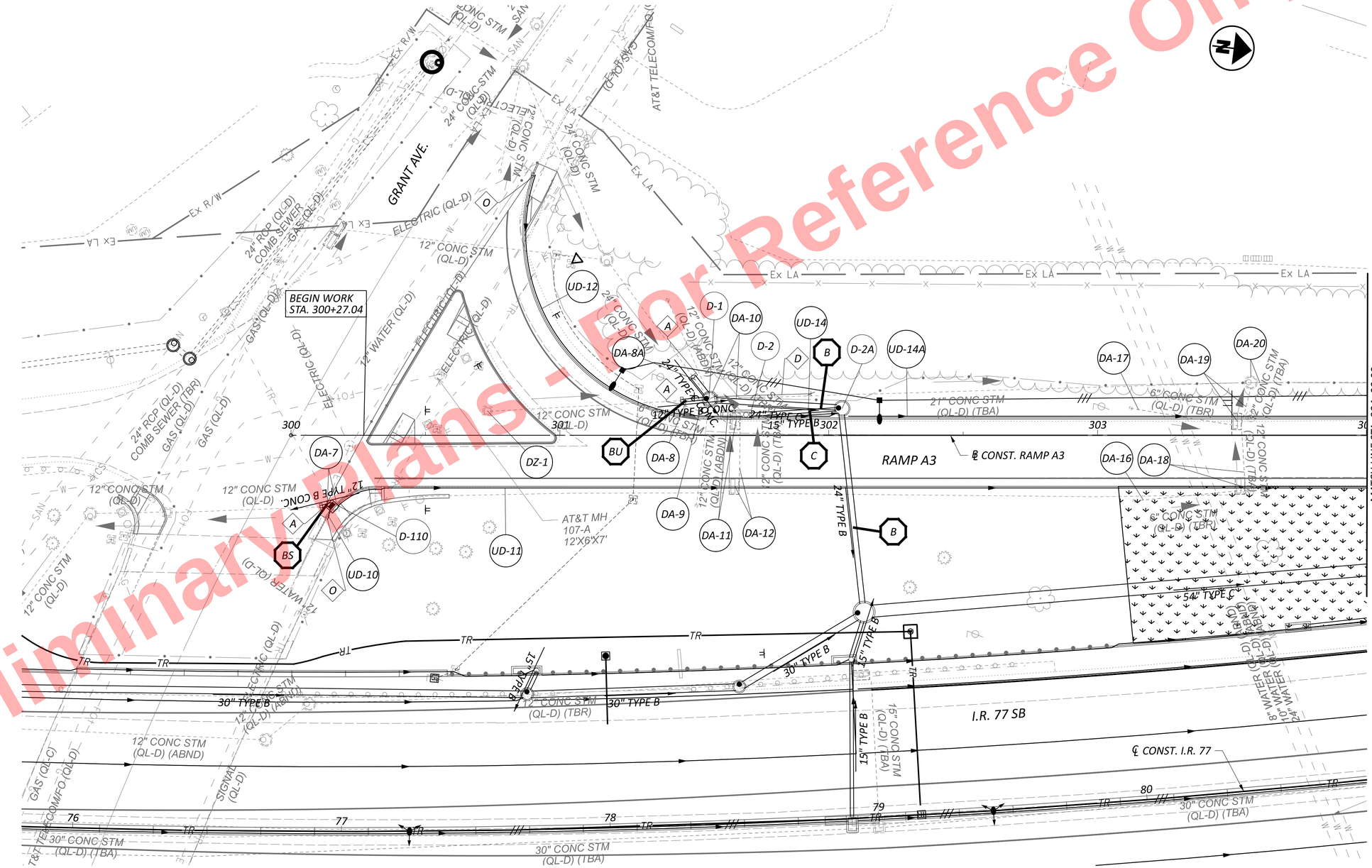
CUY-77-11.41 - PART 1

NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES, SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - RAMP A3
BEGINNING TO STA. 304+00.00

DESIGN AGENCY
AECOM

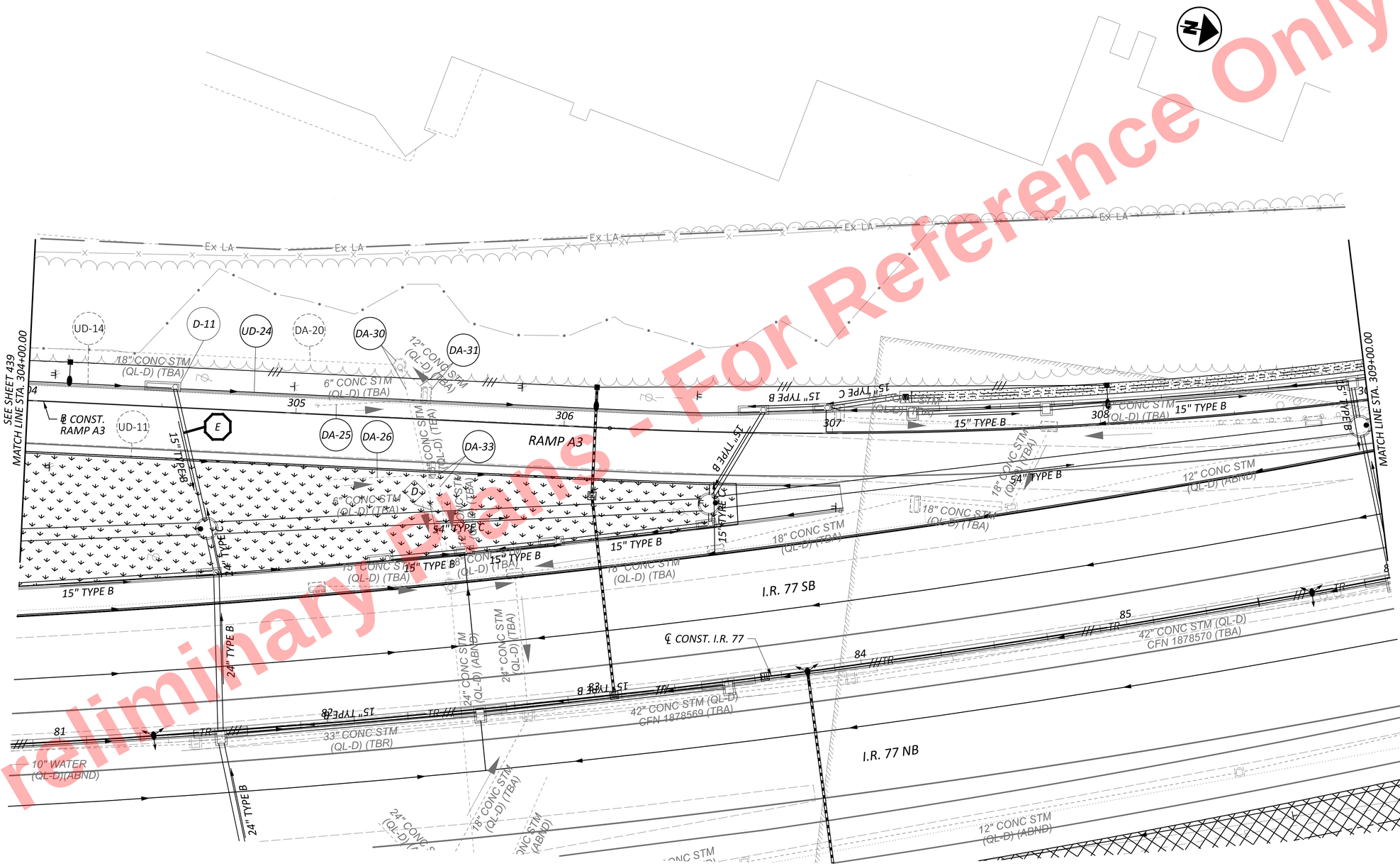
DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.781 TOTAL P.1269

NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS,
SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES,
SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES,
SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - RAMP A3
STA. 304+00.00 TO STA. 309+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.782 TOTAL P.1269

CUY-77-11.41 - PART 1

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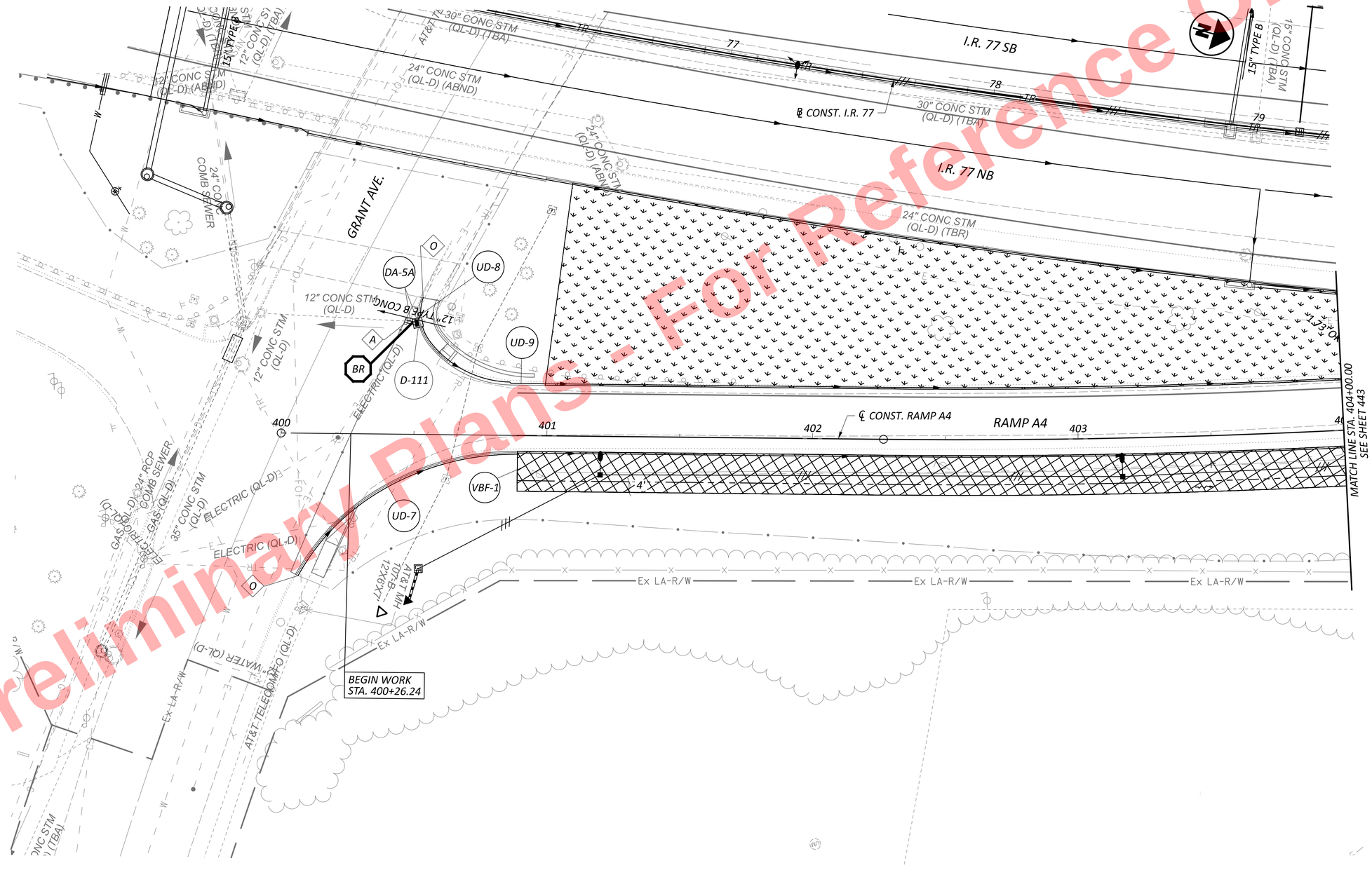
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS,
SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES,
SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES,
SEE SHEET P.711



Preliminary Plans - Not For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - RAMP A4
BEGINNING TO STA. 404+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.783 TOTAL P.1269

CUY-77-11.41 - PART 1

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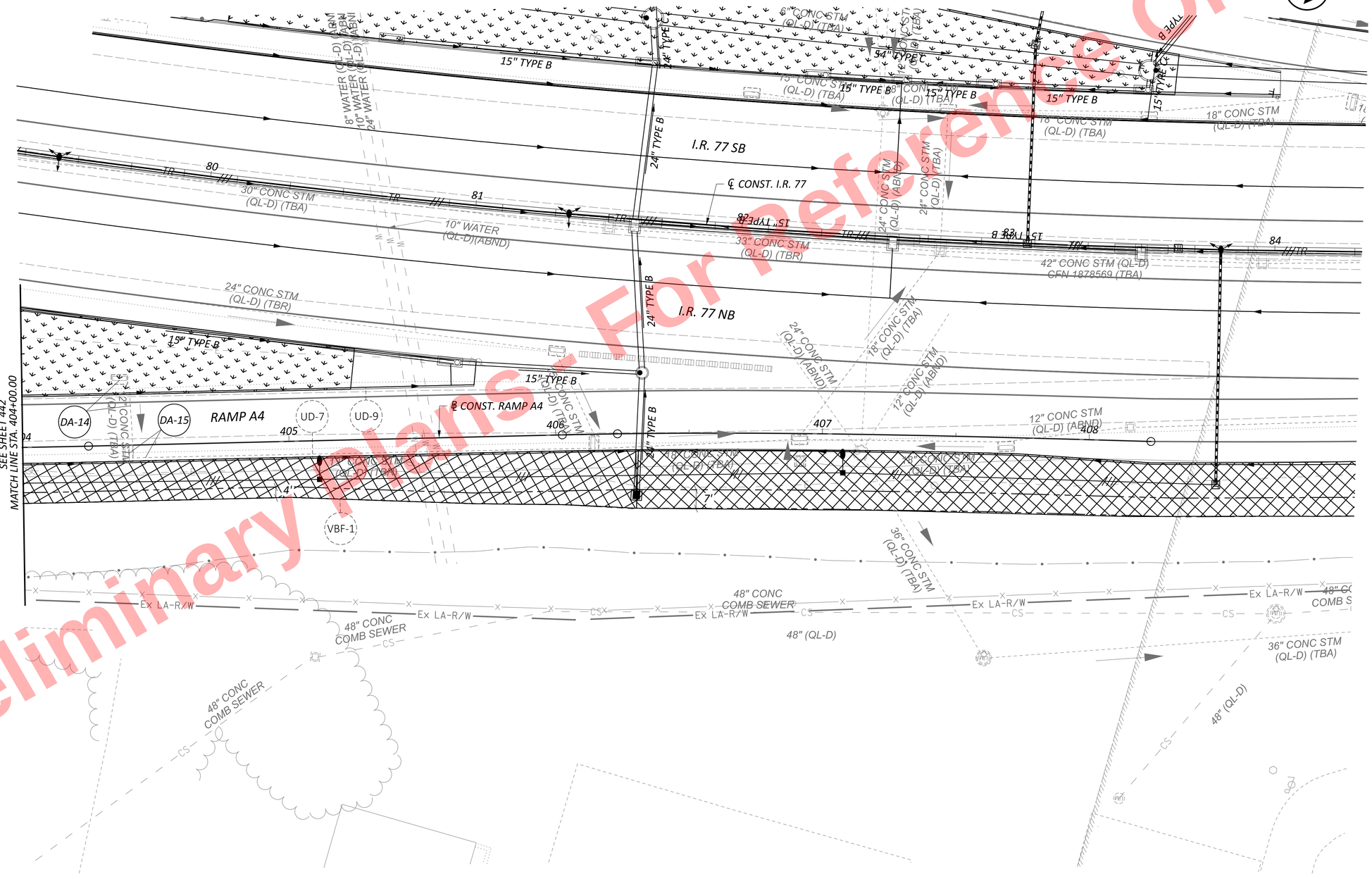
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS,
SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES,
SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES,
SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - RAMP A4
STA. 404+00.00 TO ENDING

CUY-77-11.41 - PART 1

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.784 TOTAL P.1269

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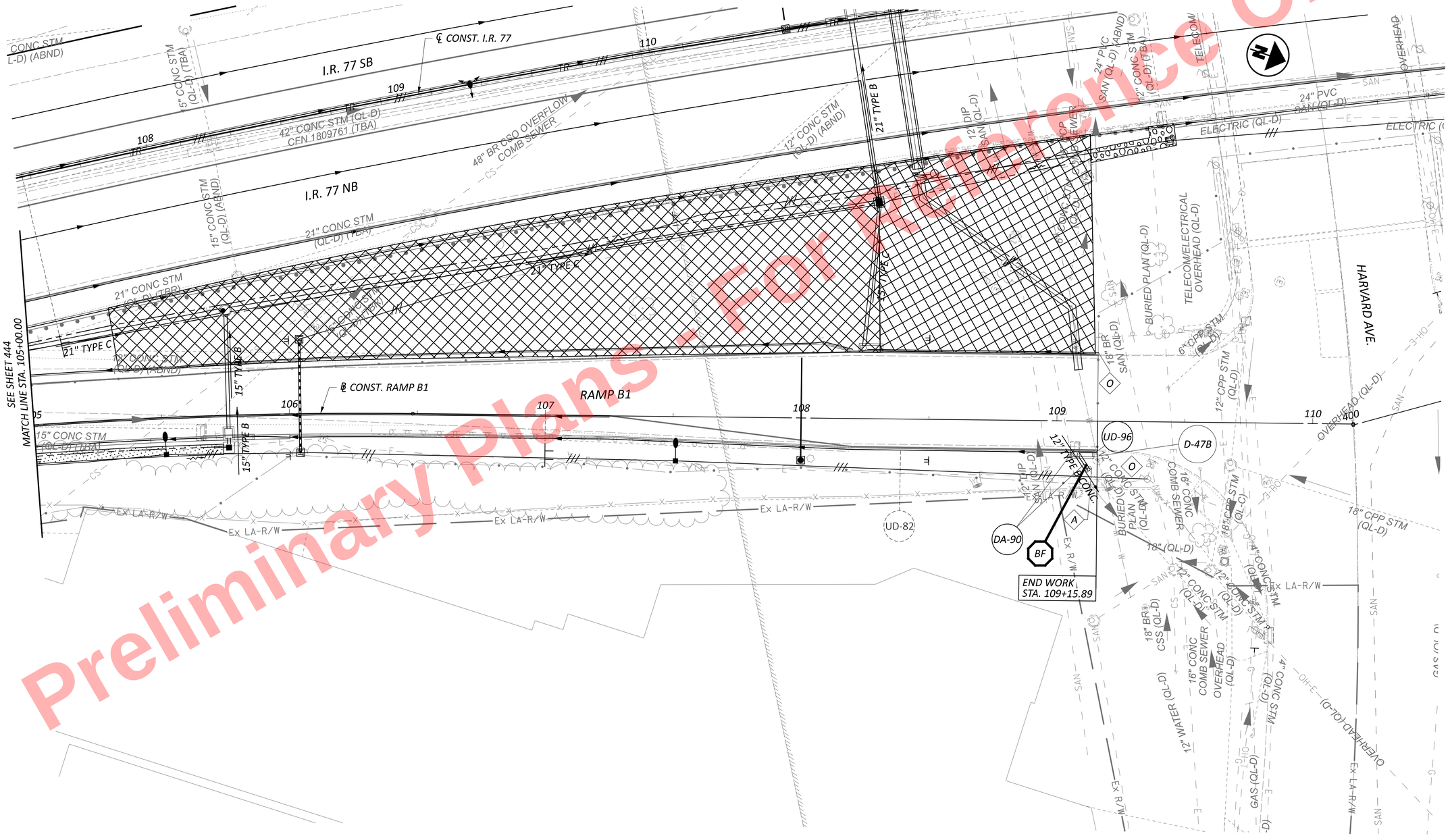
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS,
SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES,
SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES,
SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - RAMP B1
STA. 105+00.00 TO ENDING

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.785 TOTAL P.1269

CUY-77-11.41 - PART 1

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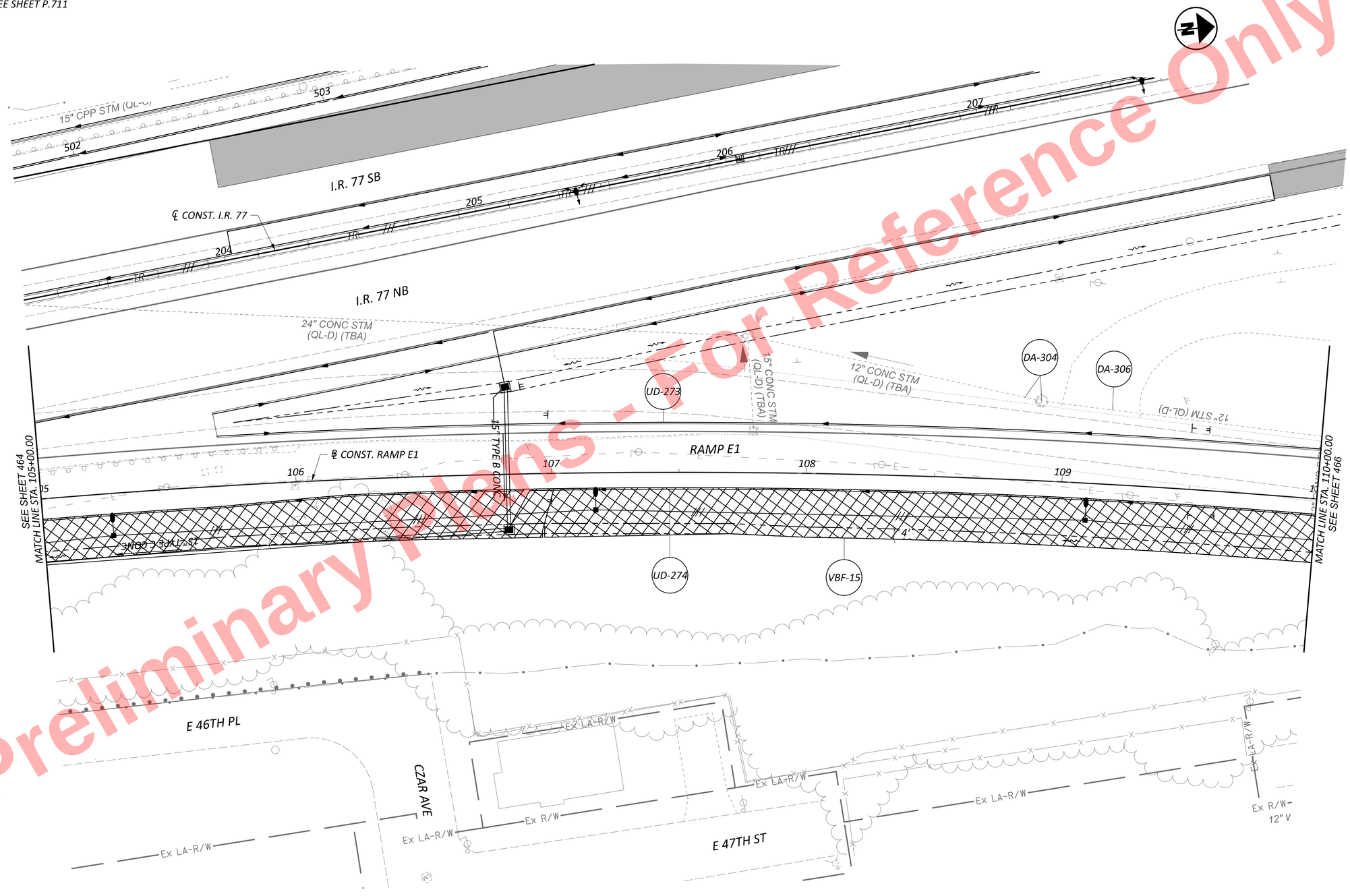
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS,
SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES,
SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES,
SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL
SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - RAMP E1
STA. 105+00.00 TO STA. 110+00.00

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.786 TOTAL P.1269

CUY-77-11.41 - PART 1

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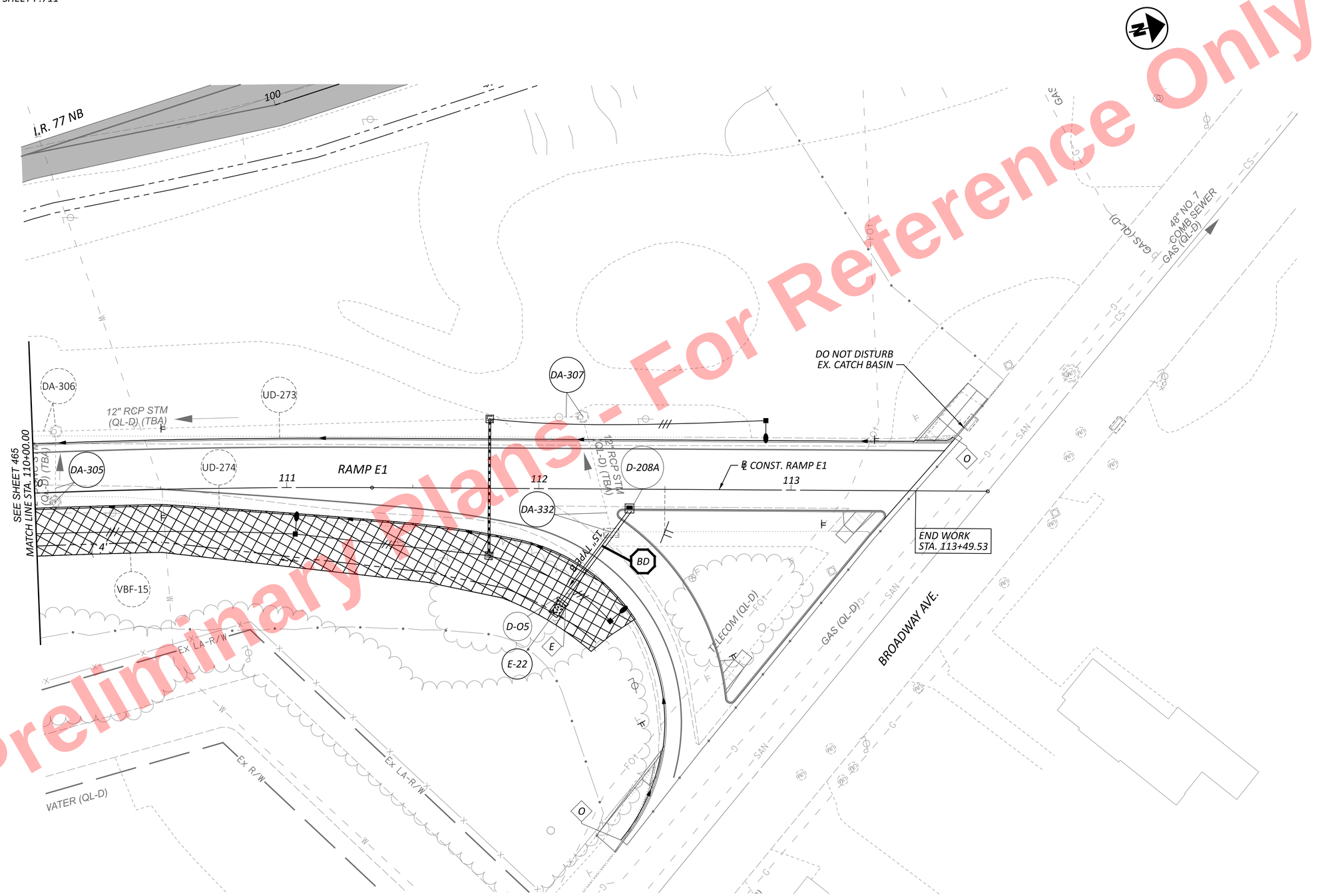
CUY-77-11.41 - PART 1

NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS,
SEE SHEETS P.262 - P.317

FOR STORM SEWER PROFILES,
SEE SHEETS P.788 - P.826

FOR LEGEND AND DIAMOND NOTES,
SEE SHEET P.711



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - RAMP E1
STA. 110+00.00 TO ENDING

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.787 TOTAL P.1269

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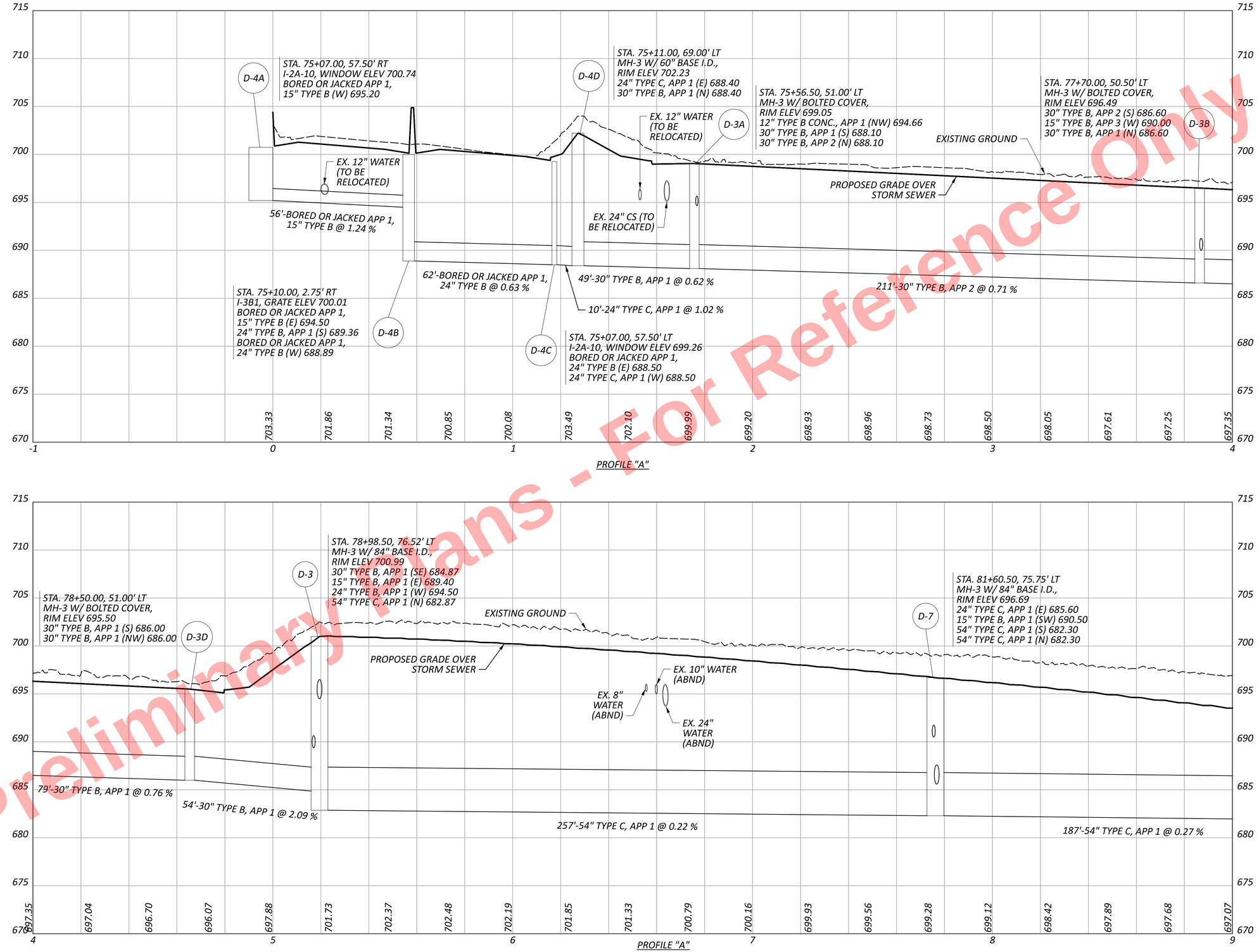
CUY-77-11.41 - PART 1



PROFILE "A"

PROFILE "A"

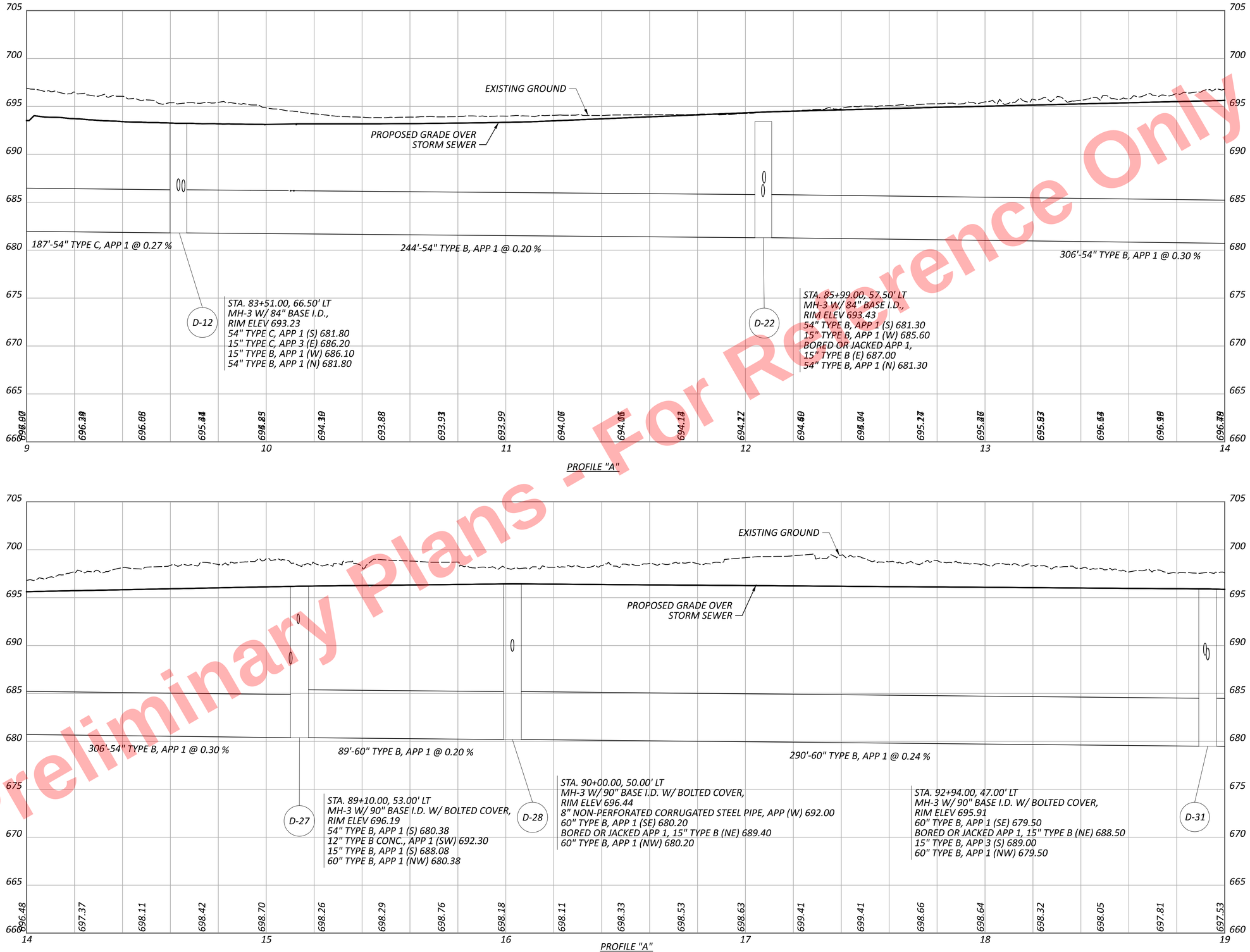
Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILE "A"

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.788 TOTAL P.1269

Preliminary Plans - For Reference Only



DRAINAGE PROFILES - I.R. 77
PROFILE "A"

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.789 | TOTAL P.1269

CUY-77-11.41 - PART 1

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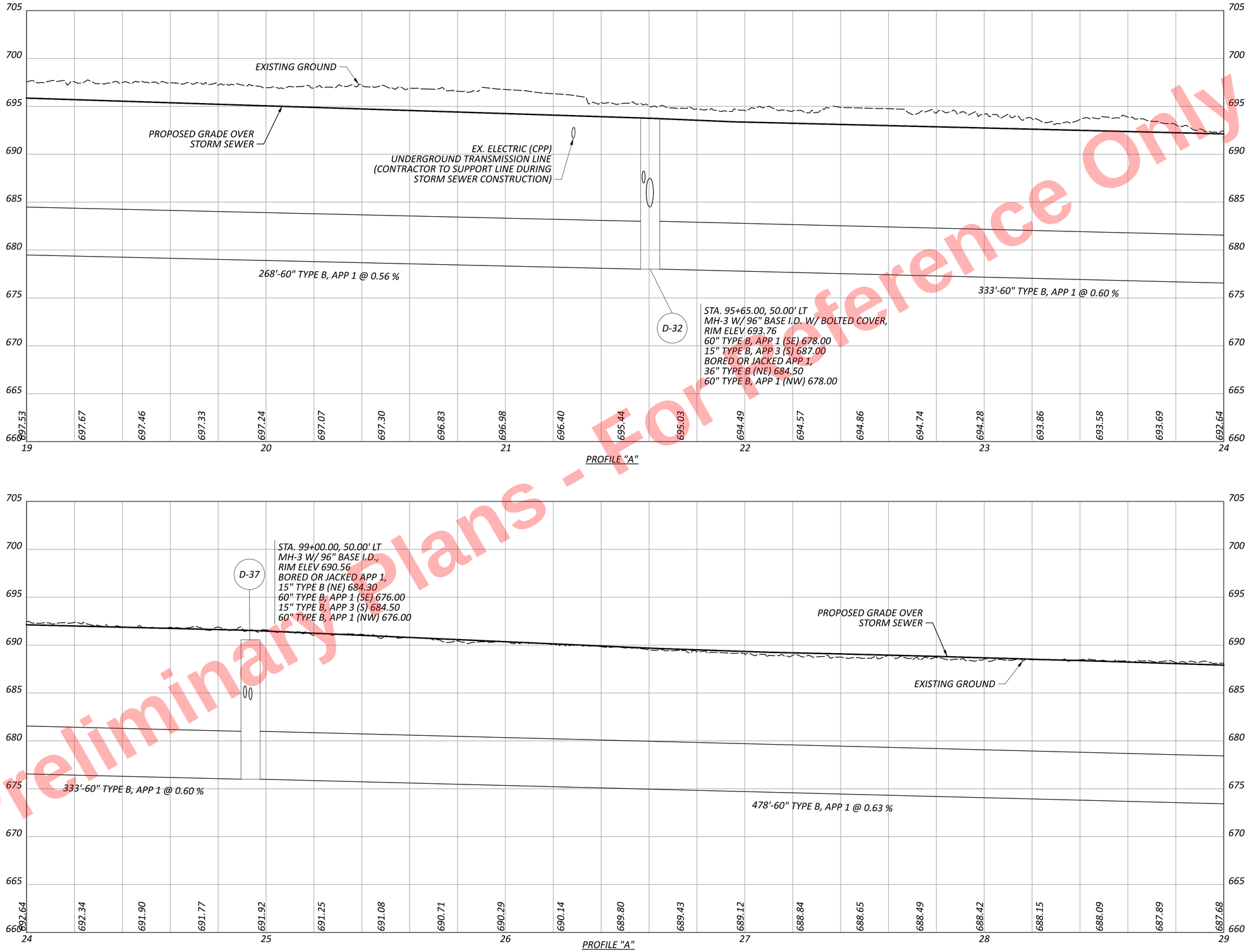


Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILE "A"

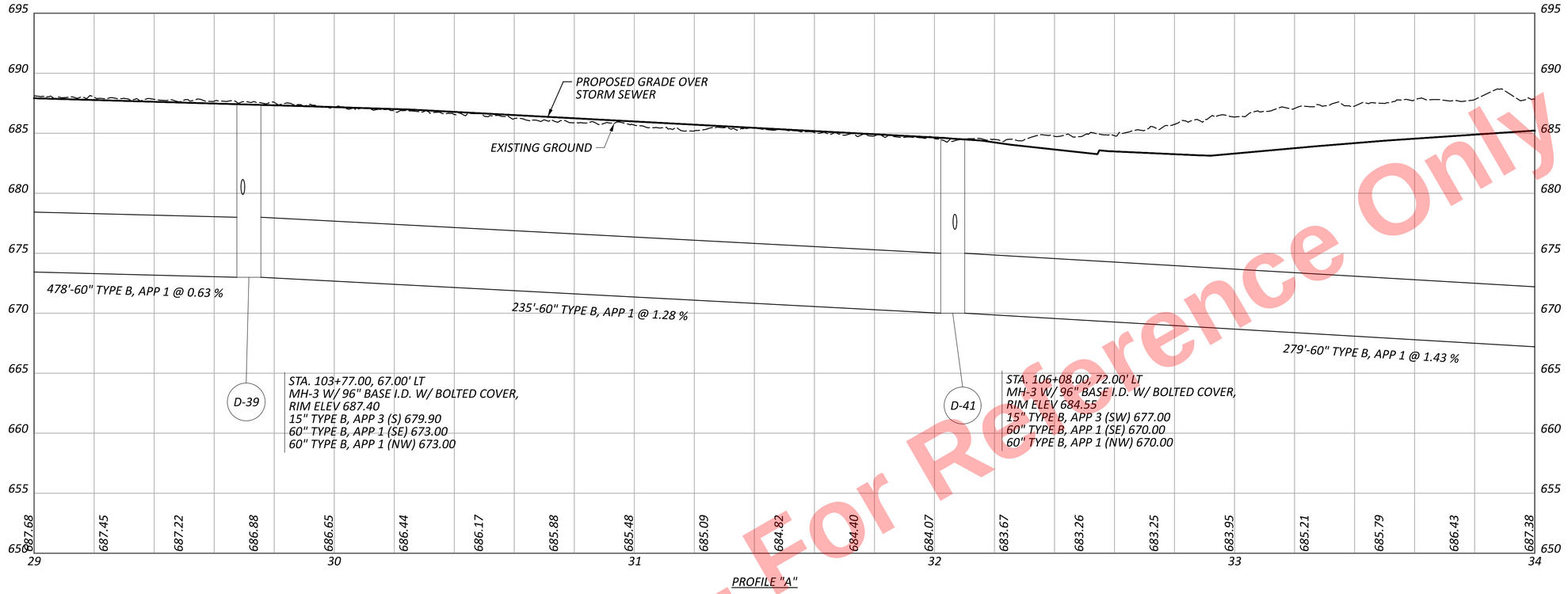
DESIGN AGENCY
AECOM

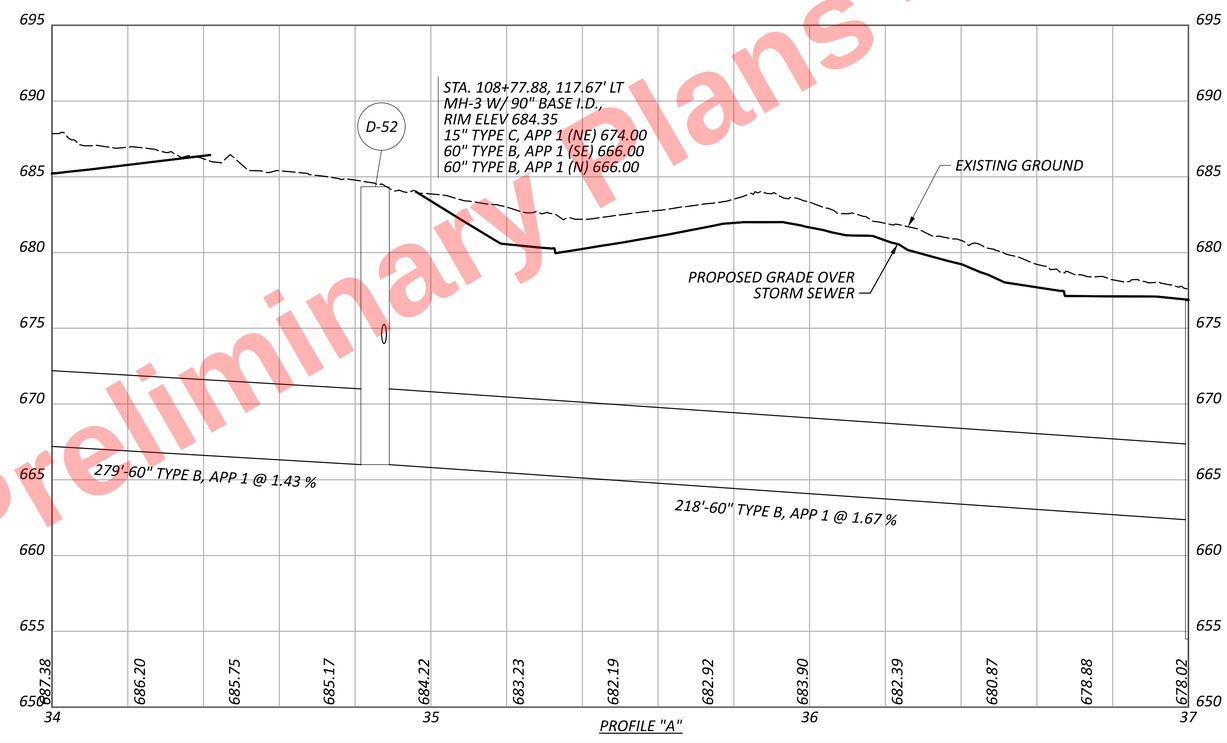
DESIGNER
SMS

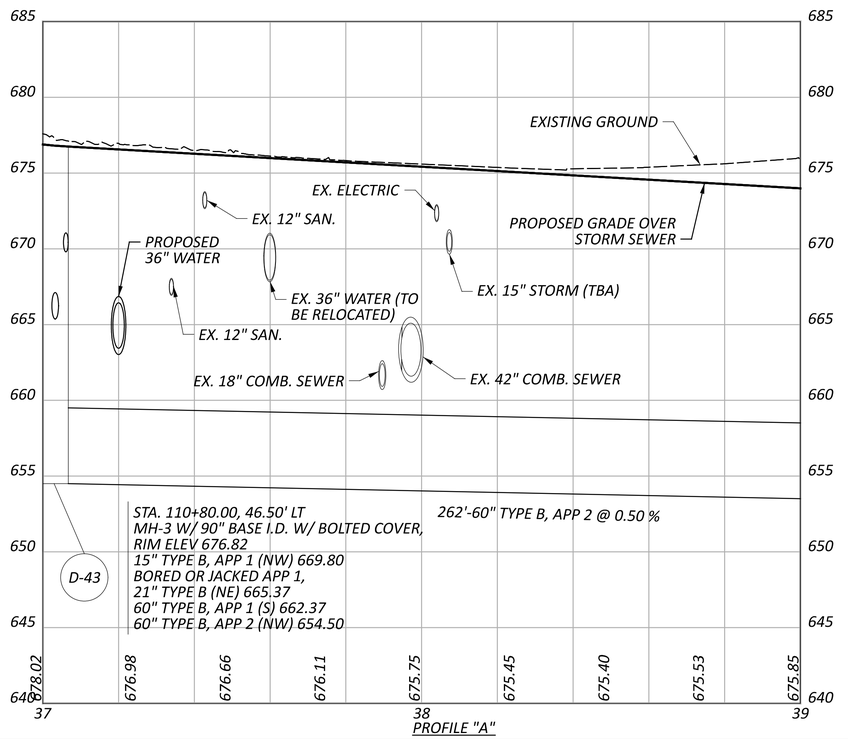
REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.790 TOTAL P.1269







Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILE "A"

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.791 TOTAL P.1269

CUY-77-11.41 - PART 1

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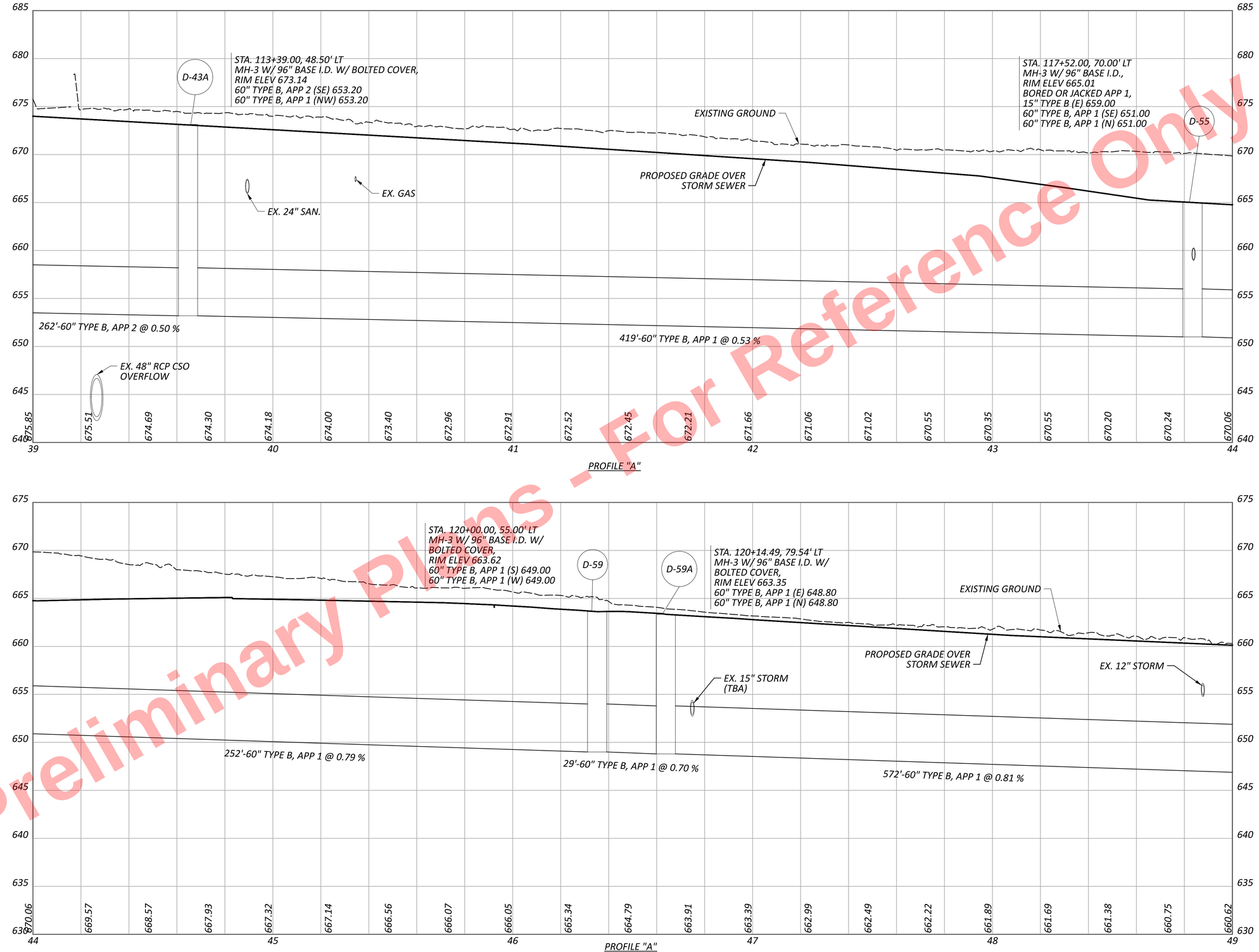

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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DRAINAGE PROFILES - I.R. 77
PROFILE "A"

DESIGN AGENCY
AECOM

DESIGNER	SMS
REVIEWER	AKM 05/01/26
PROJECT ID	105743
SHEET	P.792
TOTAL	P.1269

MODEL: Profile A - Sht 6 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:04:19 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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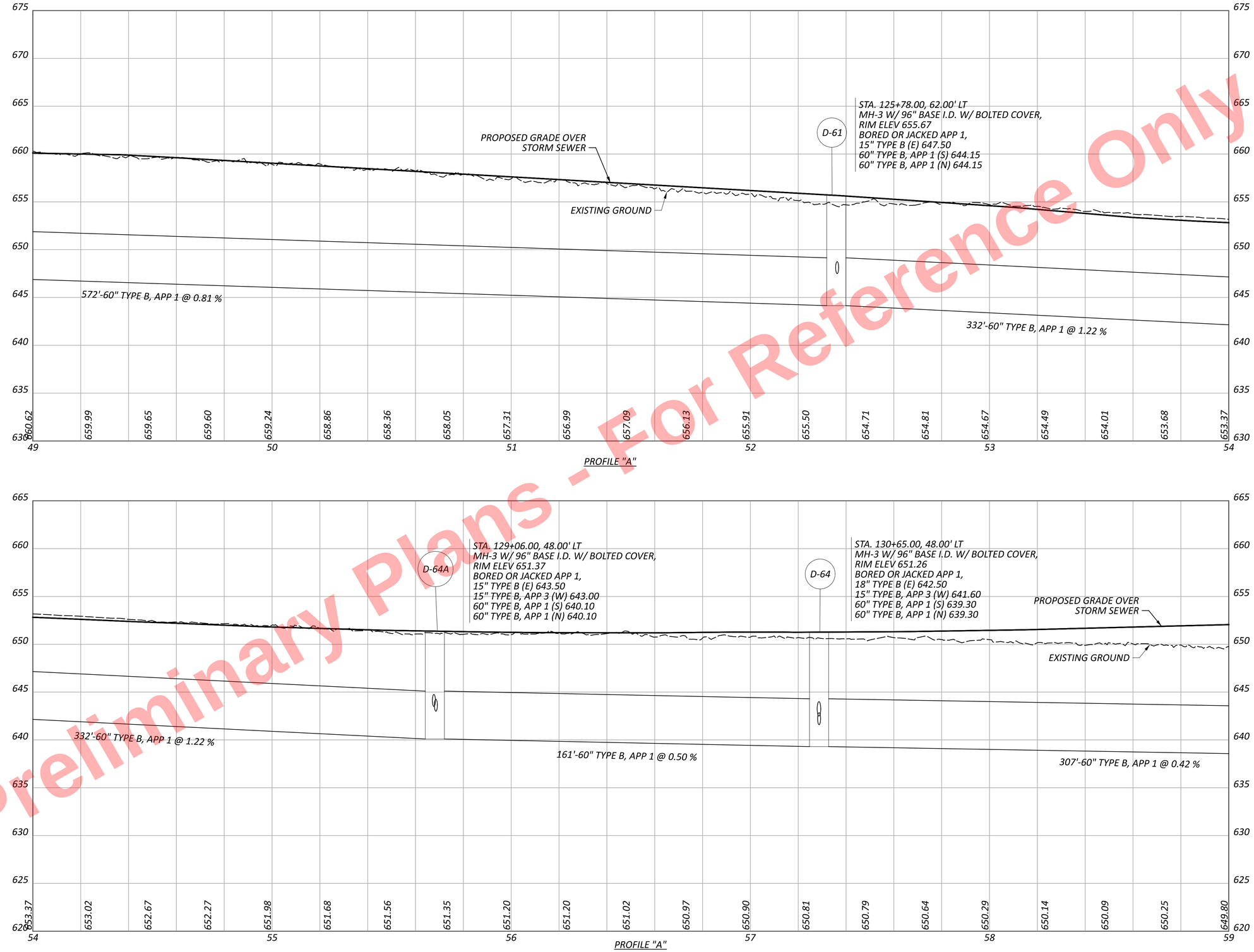
CUY-77-11.41 - PART 1



Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILE "A"

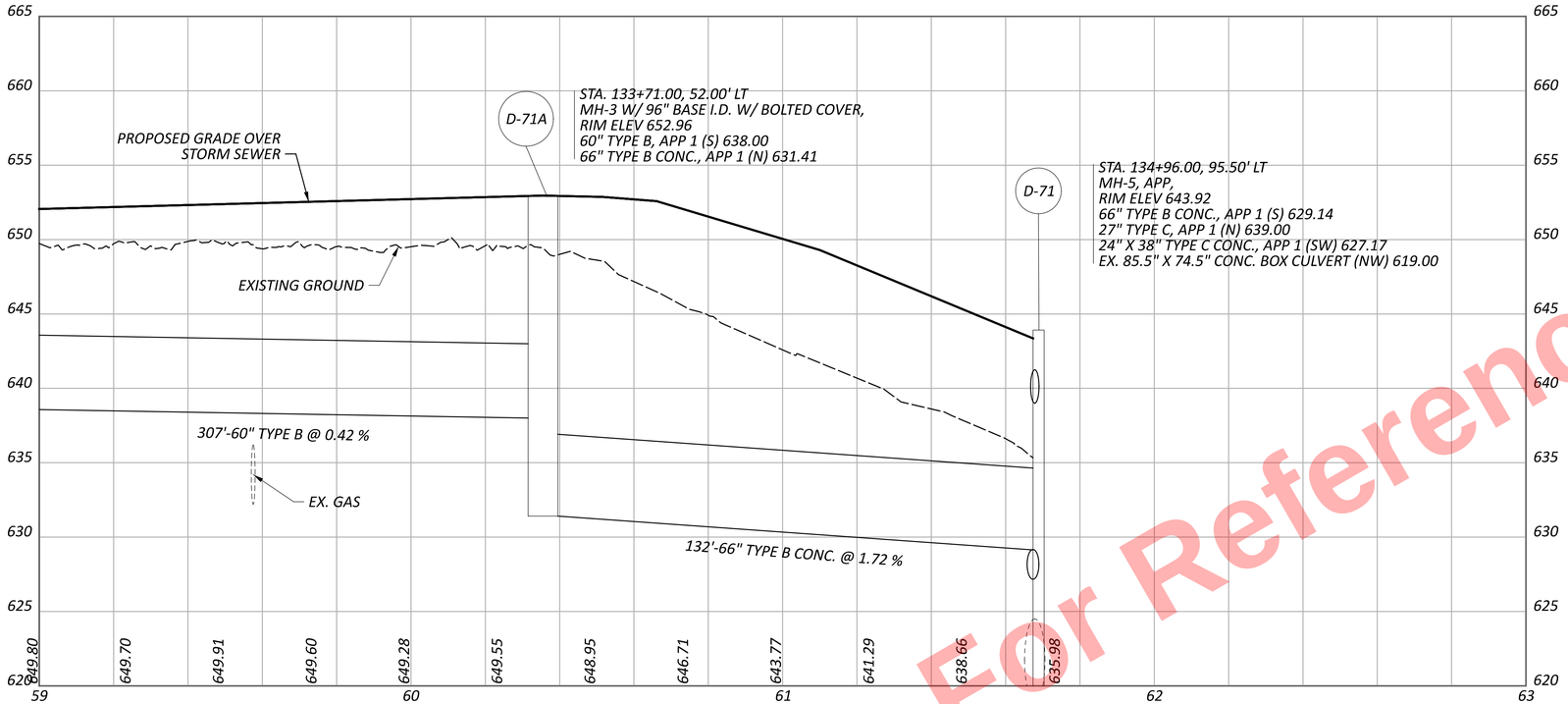
DESIGN AGENCY
AECOM

DESIGNER
SMS

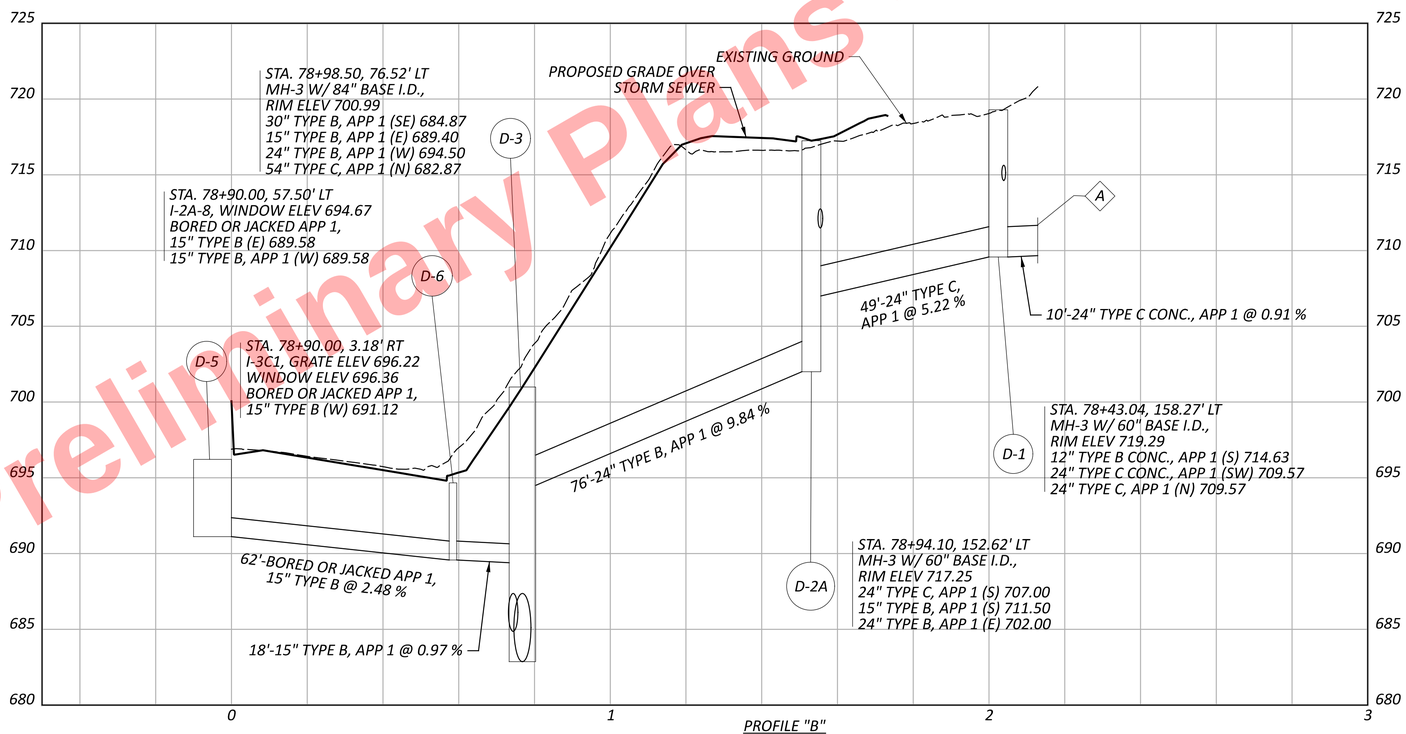
REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.793 TOTAL P.1269



PROFILE "A"



PROFILE "B"

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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DRAINAGE PROFILES - I.R. 77
PROFILES "A", "B"

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.794 TOTAL P.1269

MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:04:40 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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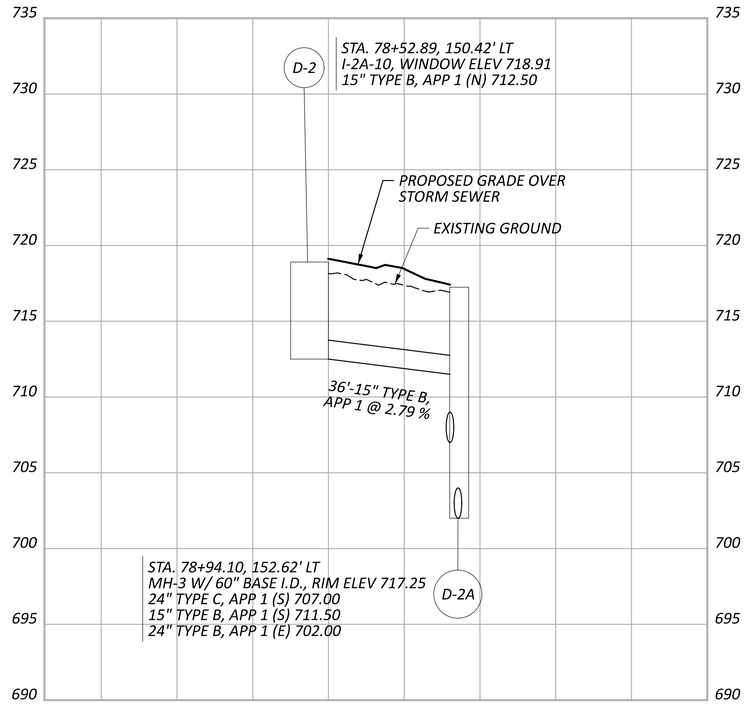
CUY-77-11.41 - PART 1



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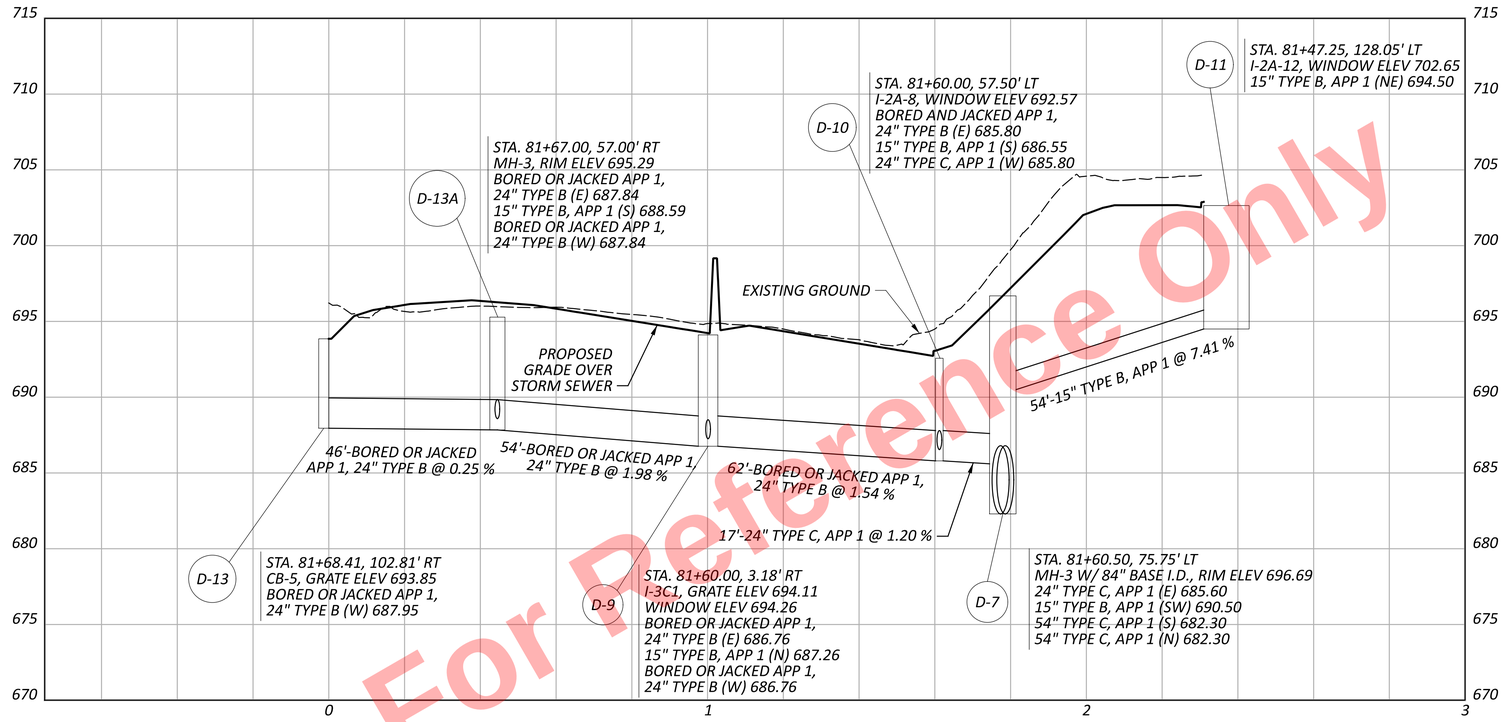

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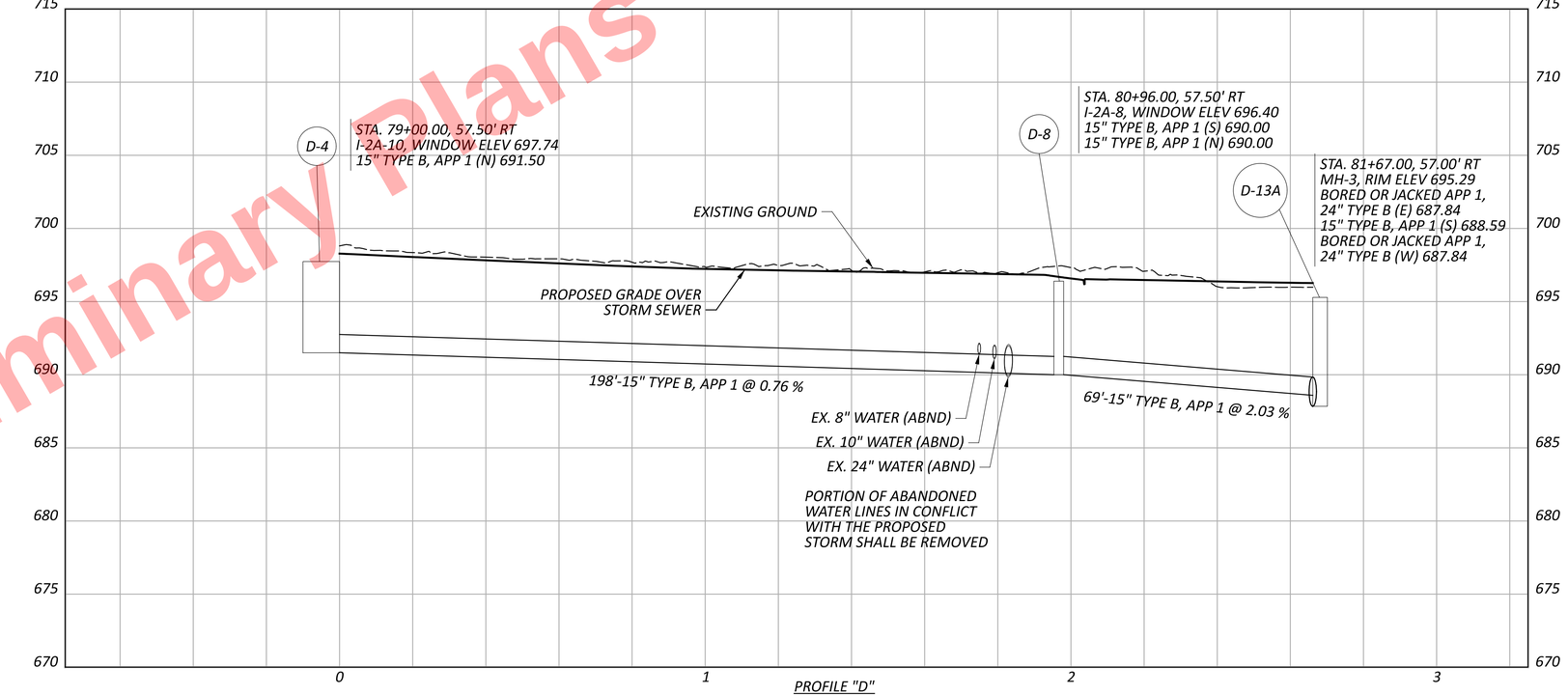


PROFILE "D"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILES "C", "D", "E"

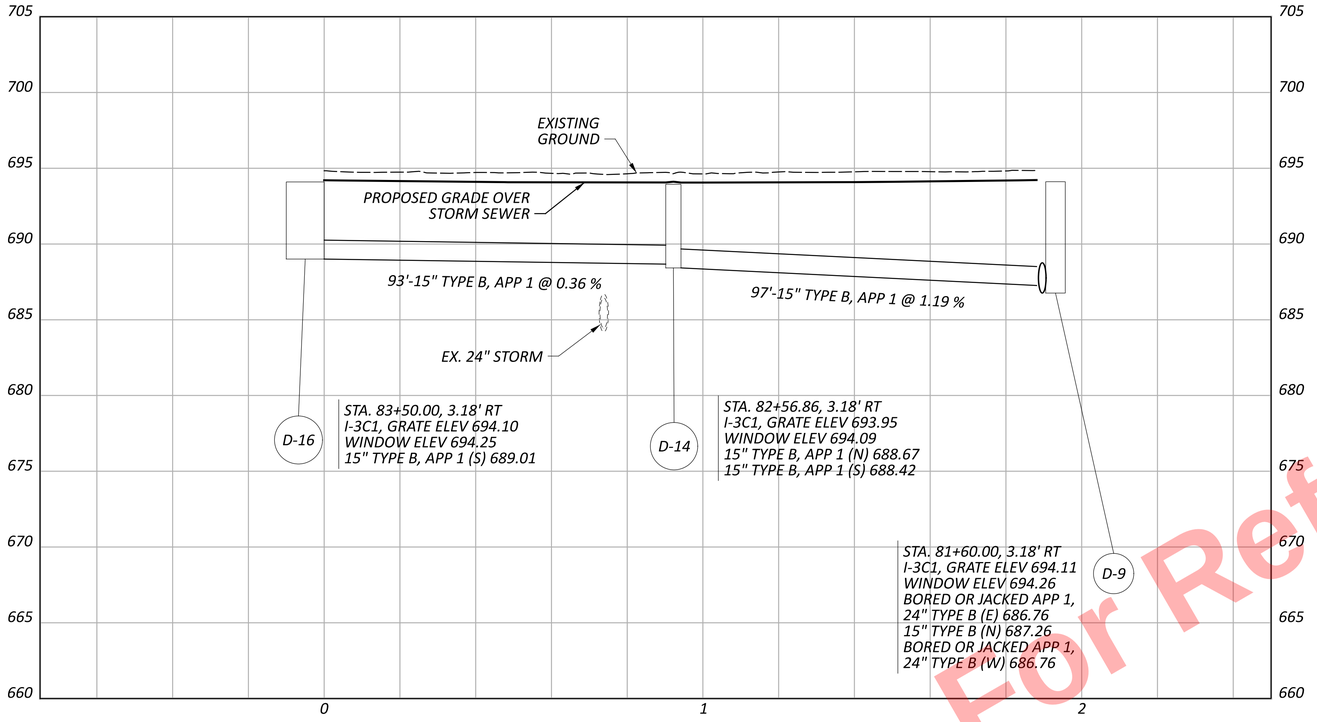
DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.795 | TOTAL P.1269



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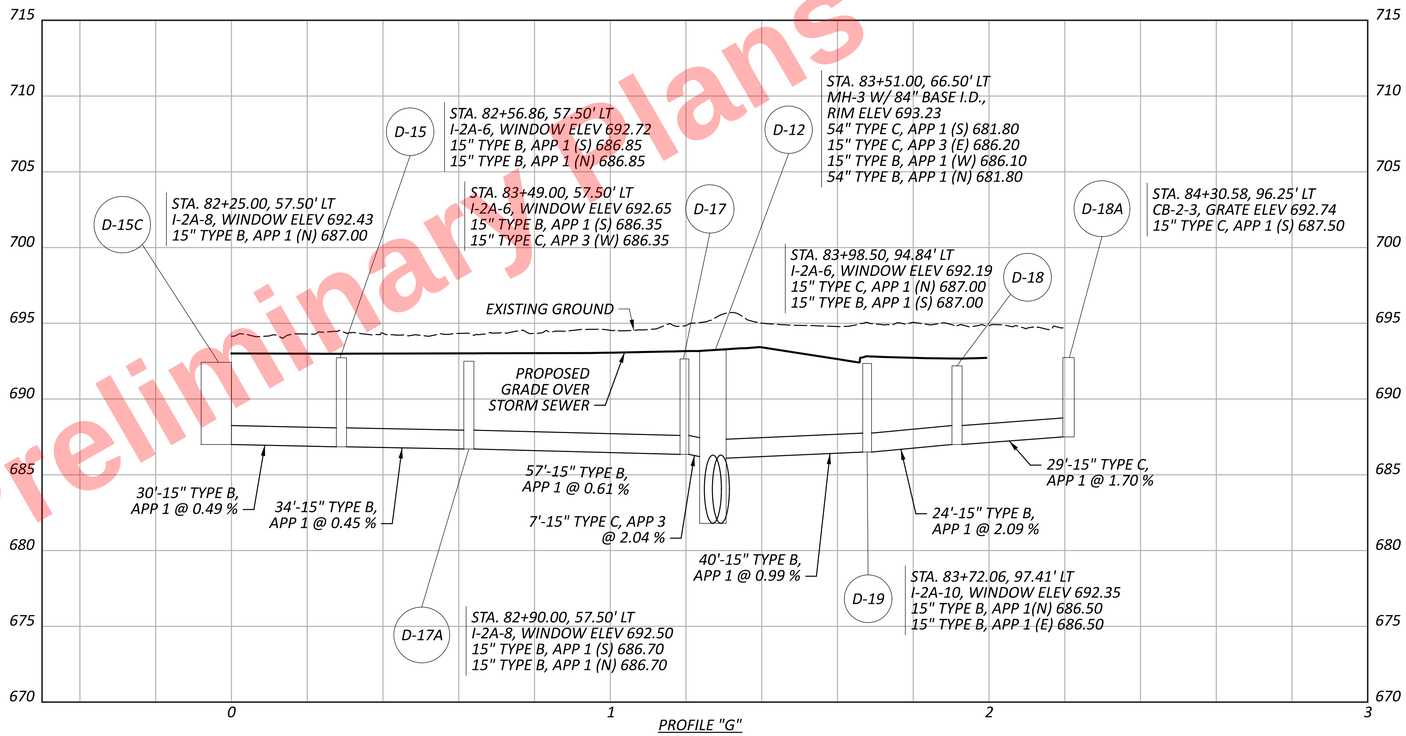

PROFILE "G"

Preliminary plans - Not For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILES "F", "G"

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.796 TOTAL P.1269

CUY-77-11.41 - PART 1

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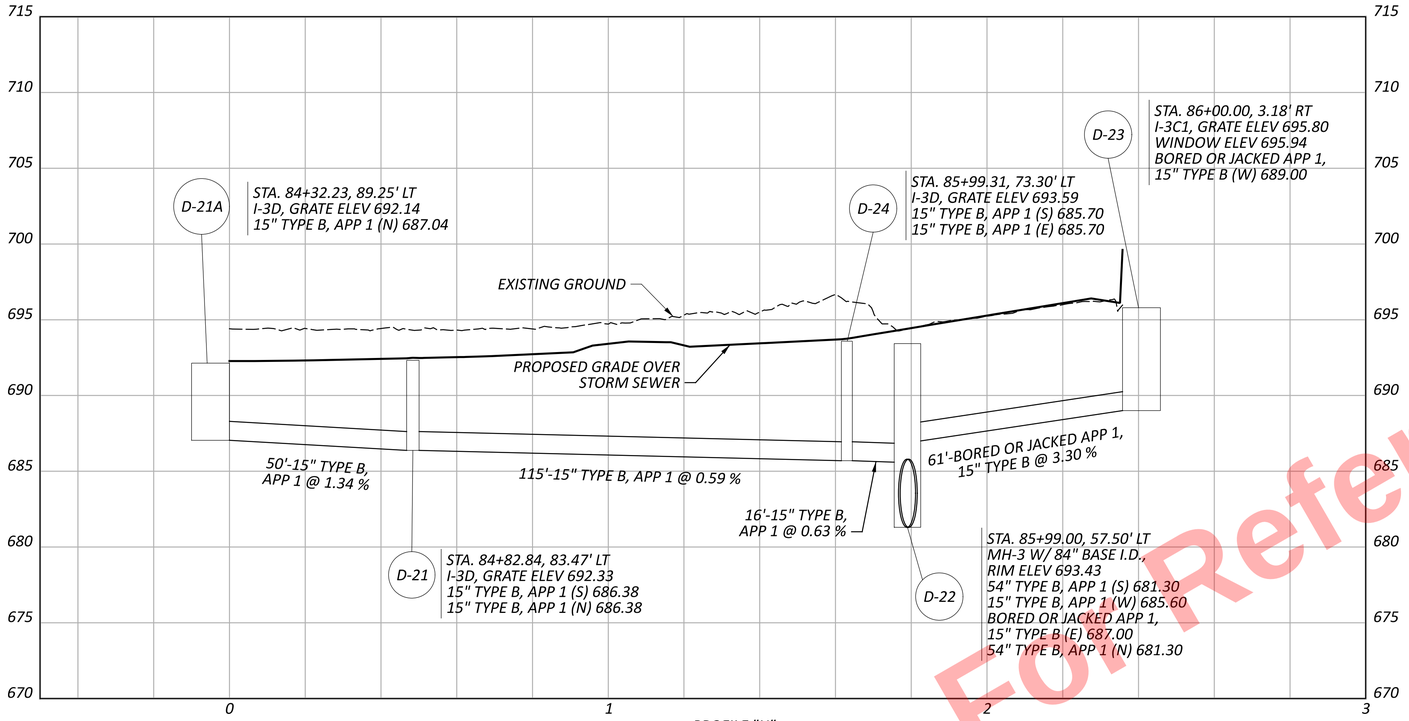
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DF102.dgn



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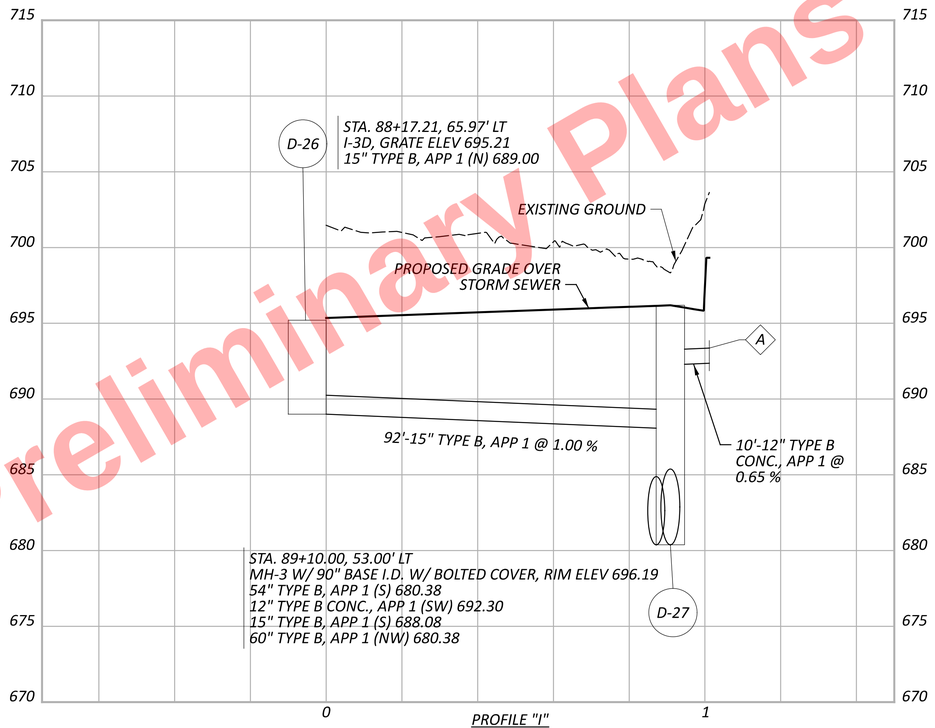

PROFILE "I"

Preliminary Plans - Not For Reference Only

CUY-77-11.41 - PART 1

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DRAINAGE PROFILES - I.R. 77
PROFILES "H", "I"

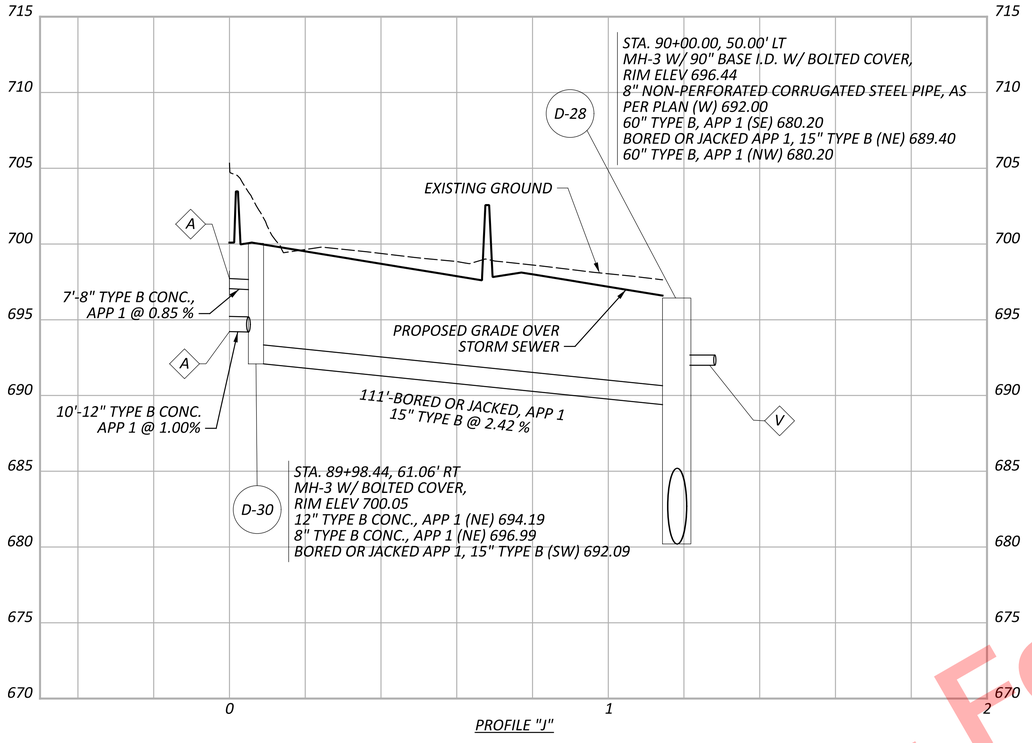
DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.797 TOTAL P.1269



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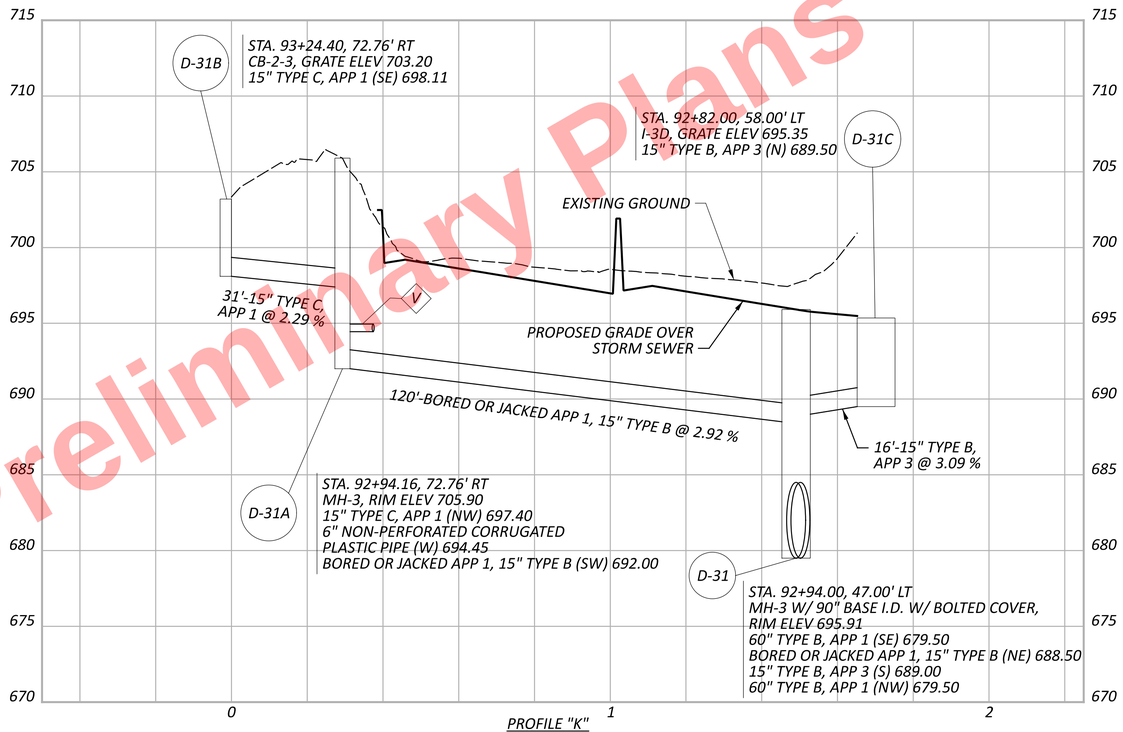

PROFILE "K"

Preliminary Plans - Not For Reference Only

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DRAINAGE PROFILES - I.R. 77
PROFILES "J", "K"

DESIGN AGENCY
AECOM

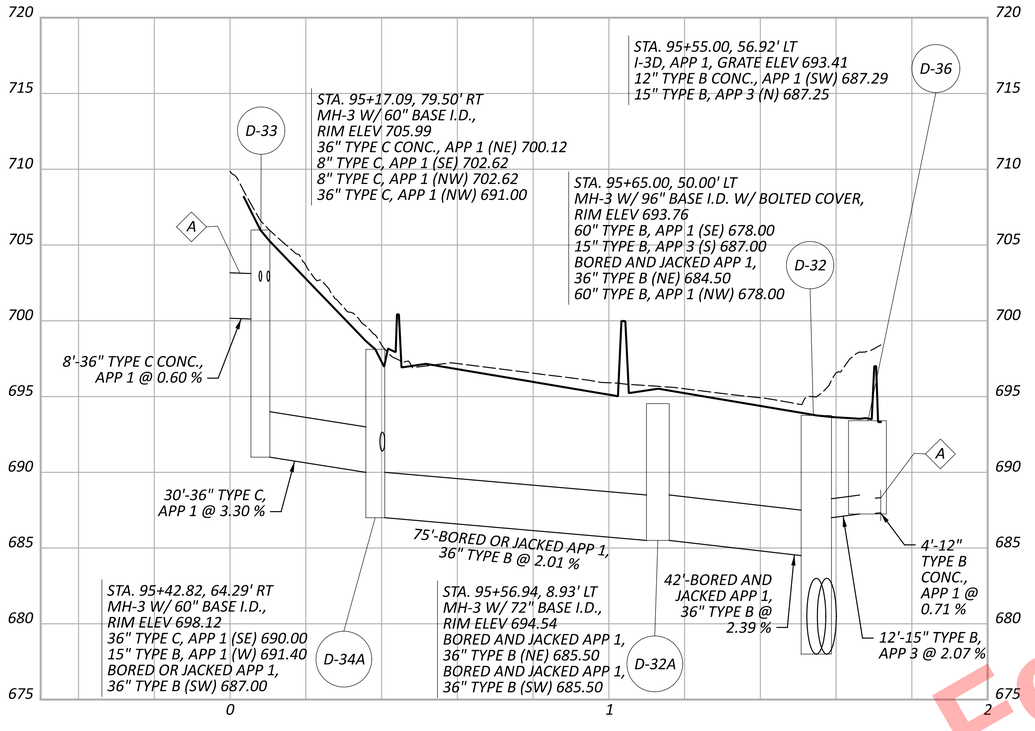
DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.798 TOTAL P.1269

Preliminary Plans - For Reference Only



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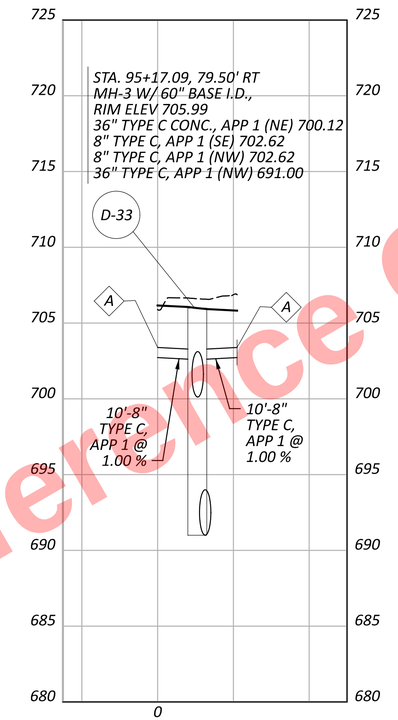

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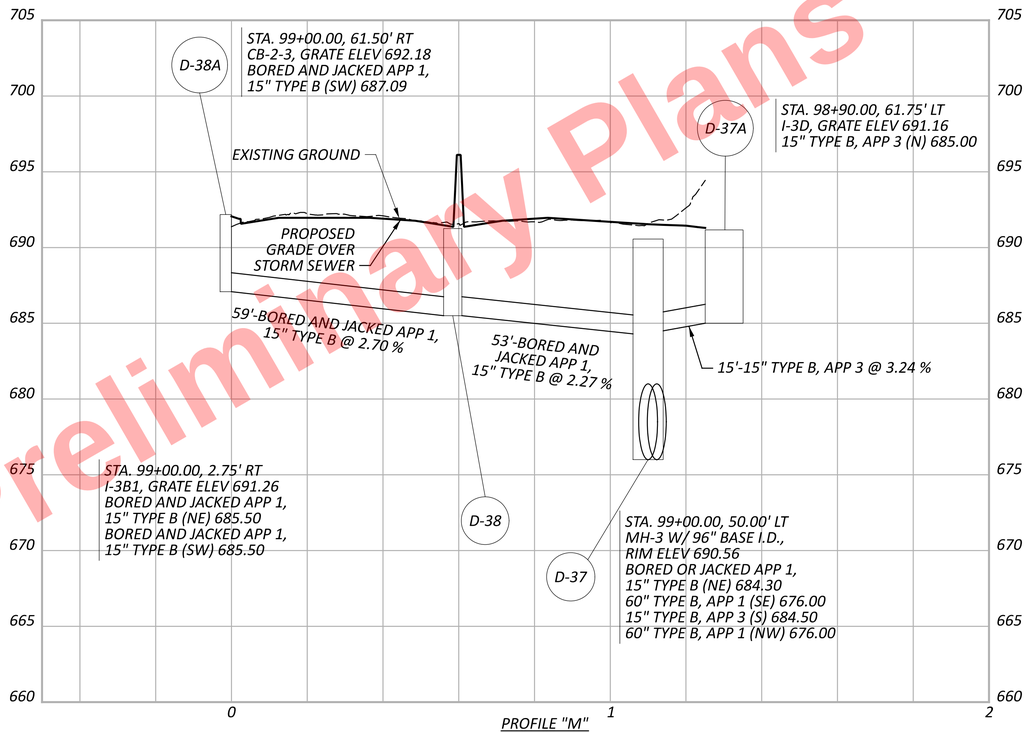

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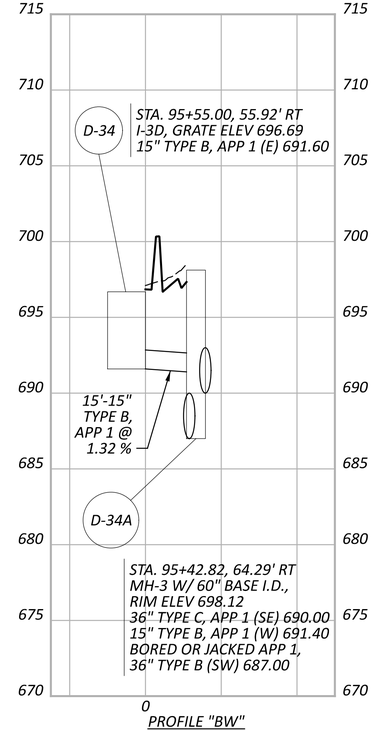

PROFILE "BW"

DRAINAGE PROFILES - I.R. 77
PROFILES "L", "M", "BV", "BW"

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.799 TOTAL P.1269

CUY-77-11.41 - PART 1

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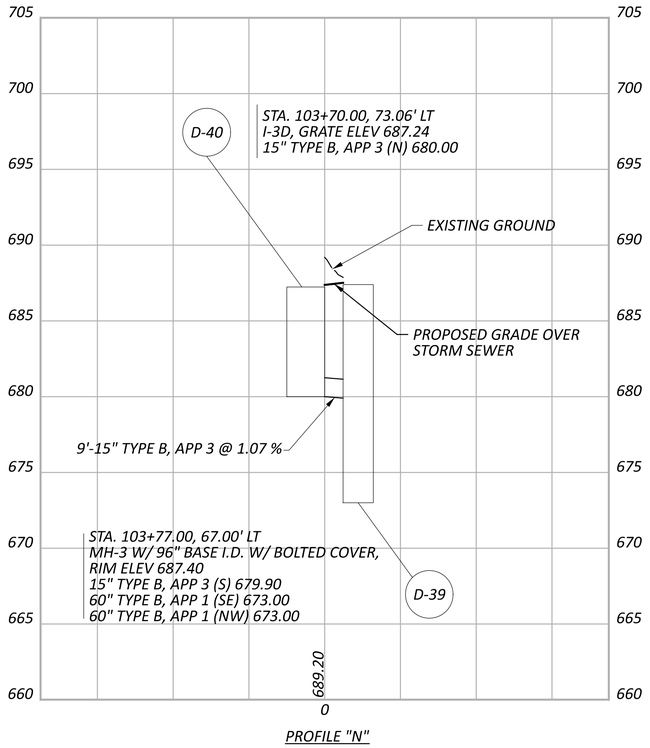

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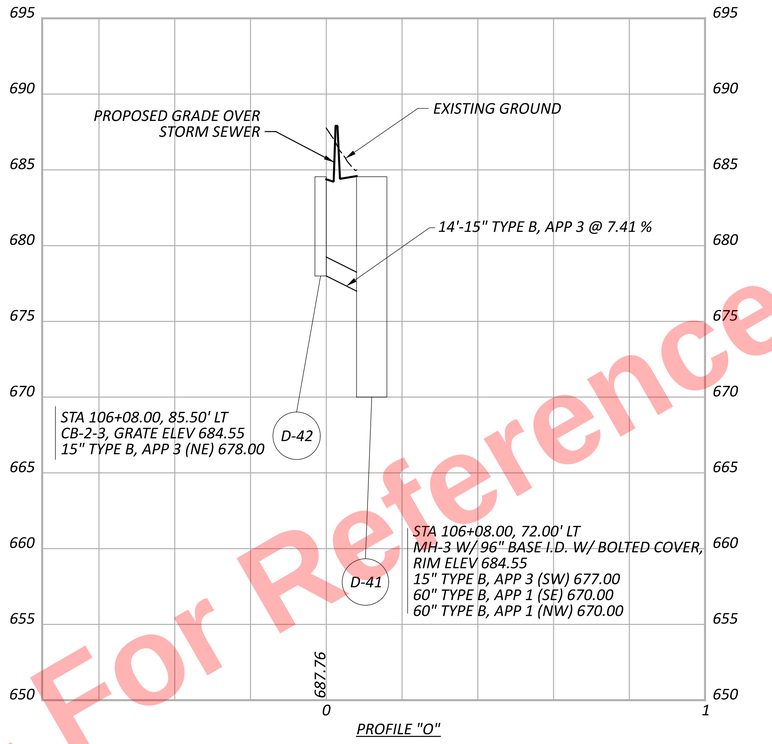

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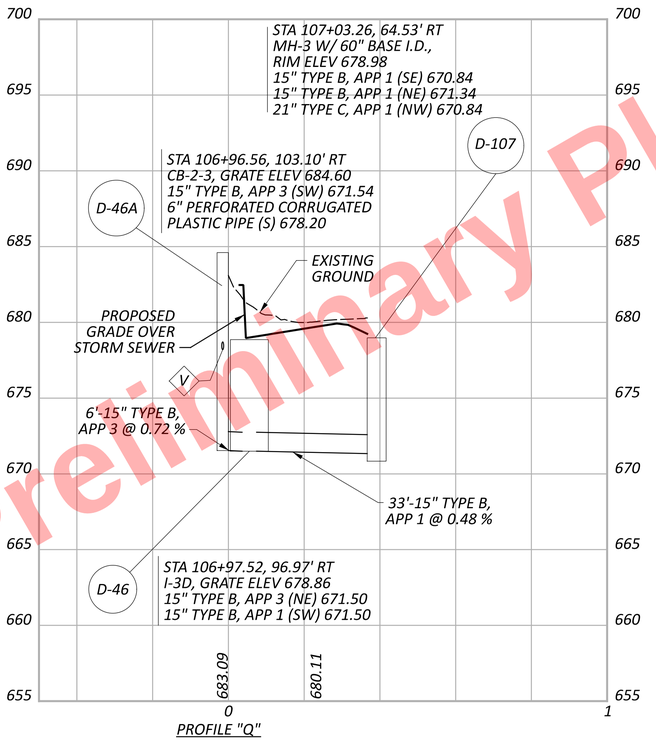
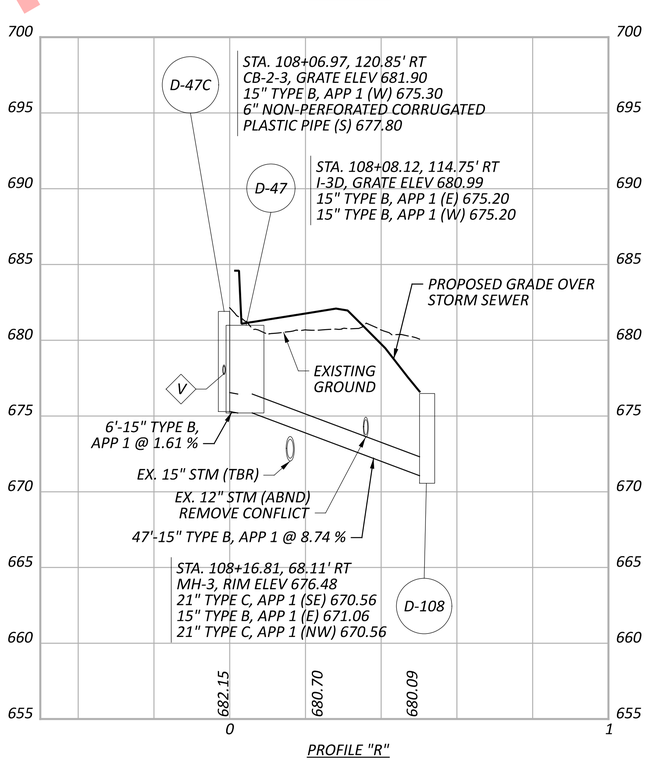


PROFILE "Q"



PROFILE "R"

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Drainage\Sheets\105743_DF103.dgn

DRAINAGE PROFILES - I.R. 77
PROFILES "N", "O", "Q", "R"

DESIGN AGENCY
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DESIGNER
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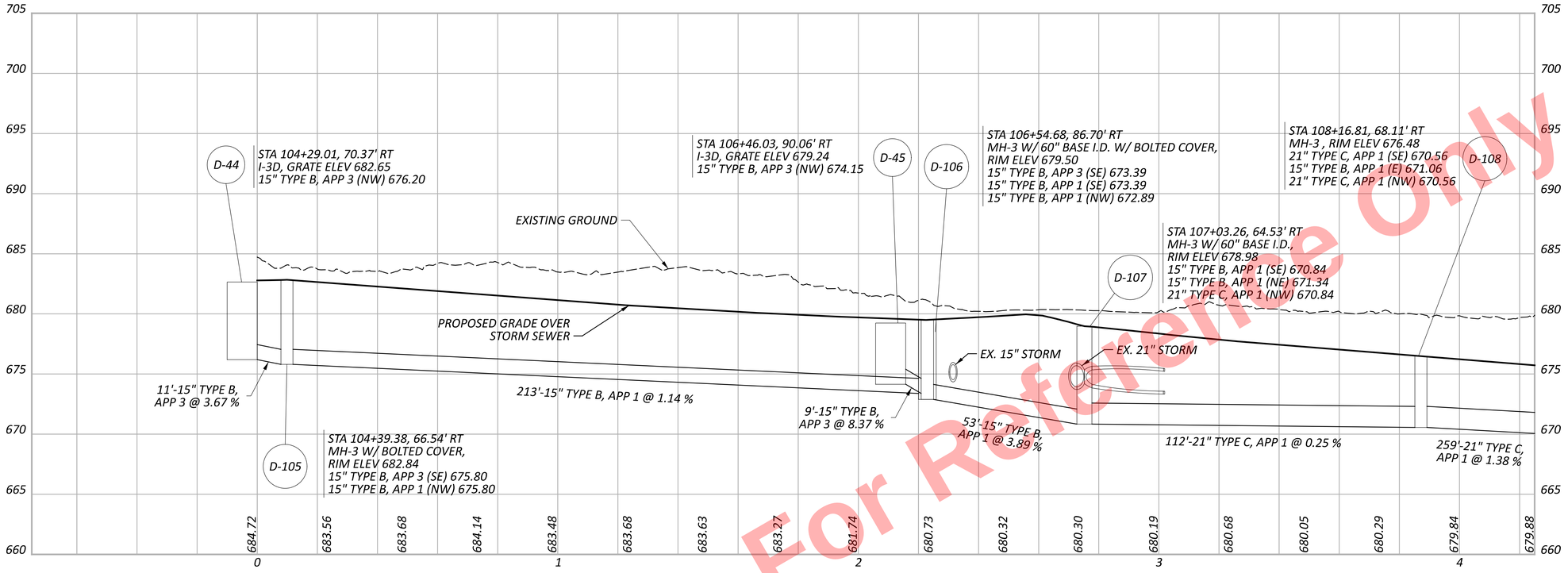
AKM 05/01/26

PROJECT ID
105743

SHEET P.800 TOTAL P.1269

Preliminary Plans - Not For Reference Only



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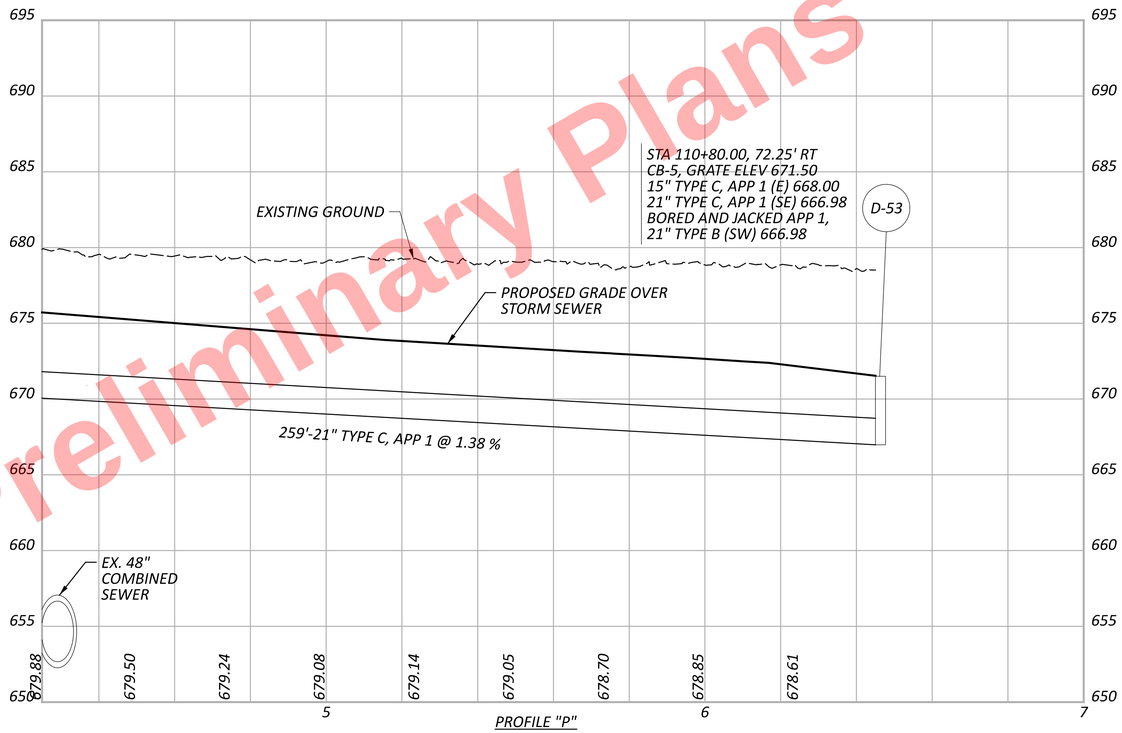

PROFILE "P"

DRAINAGE PROFILES - I.R. 77
PROFILE "P"

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.801 | TOTAL P.1269

CUY-77-11.41 - PART 1

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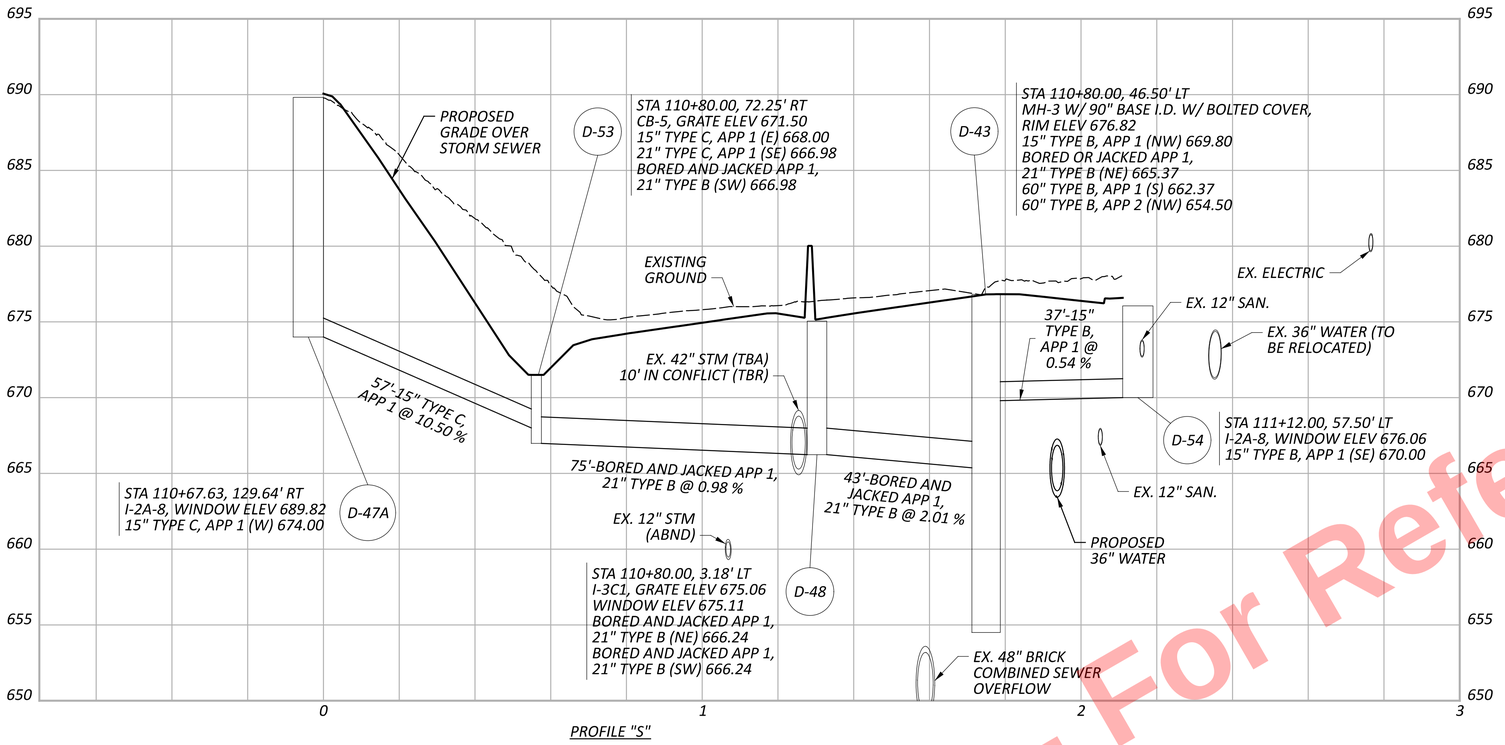

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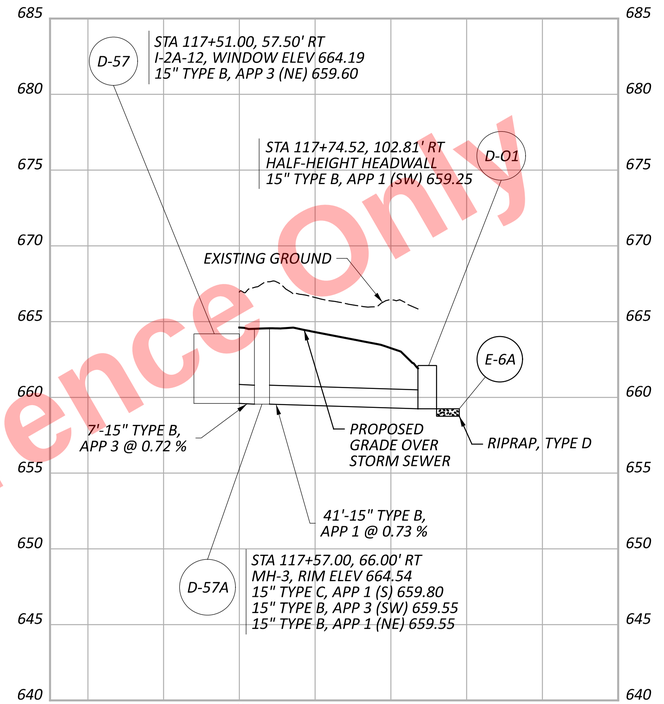

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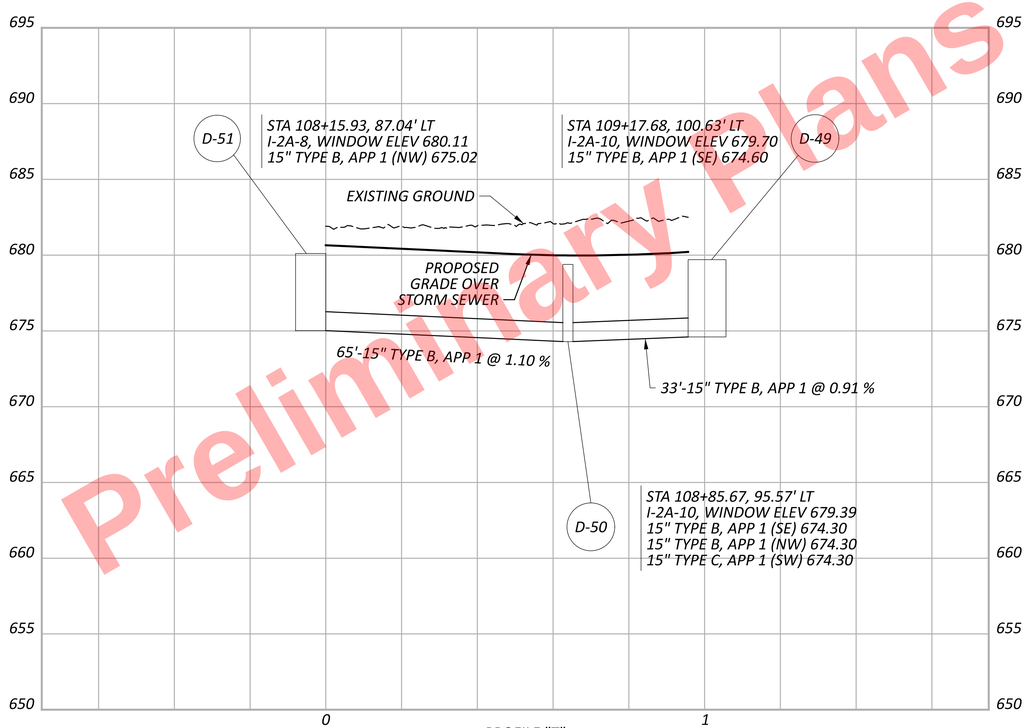

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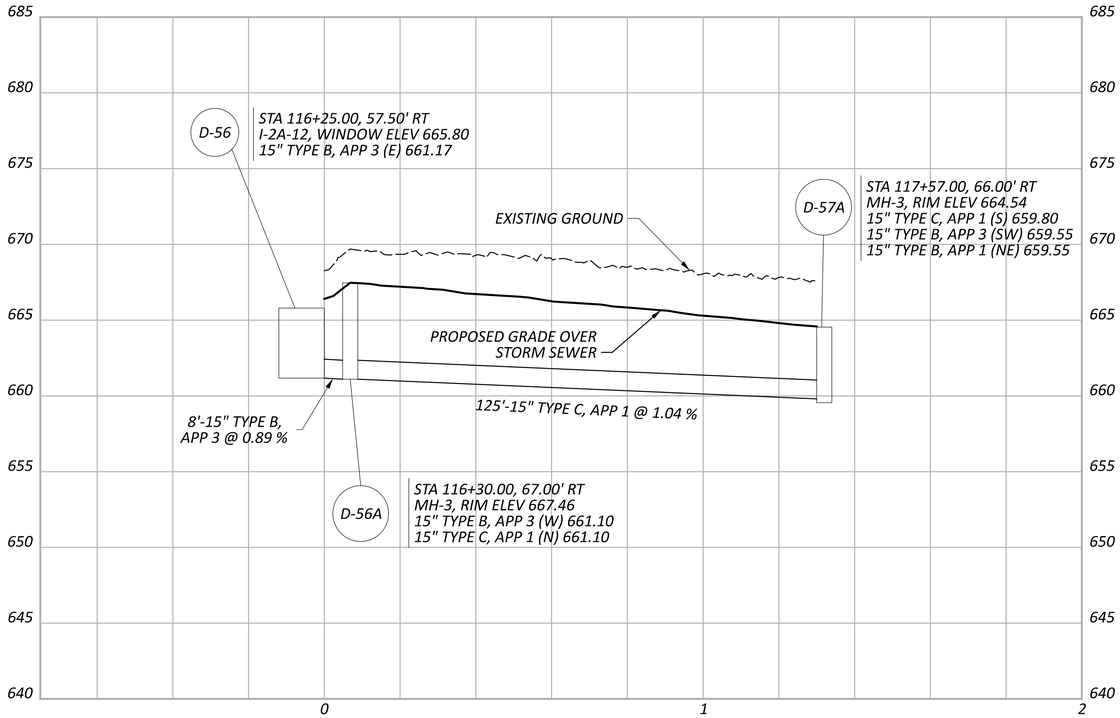

PROFILE "U"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILES "S", "T", "U", "UU"

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.802 TOTAL P.1269

CUY-77-11.41 - PART 1

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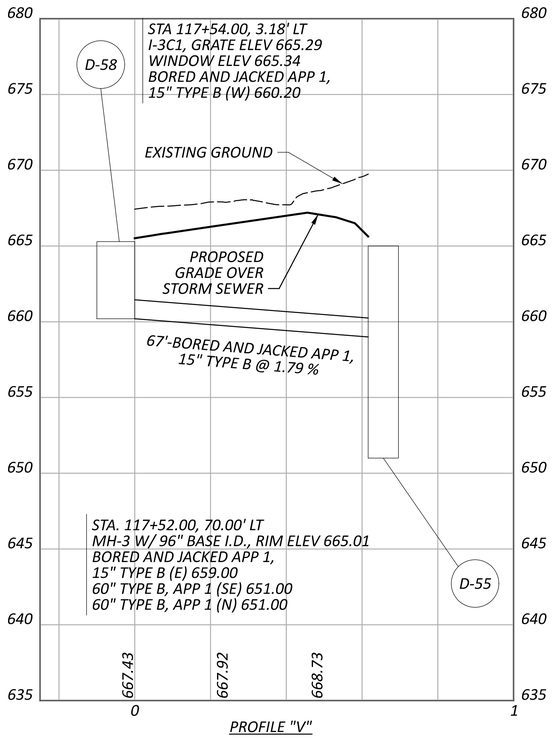

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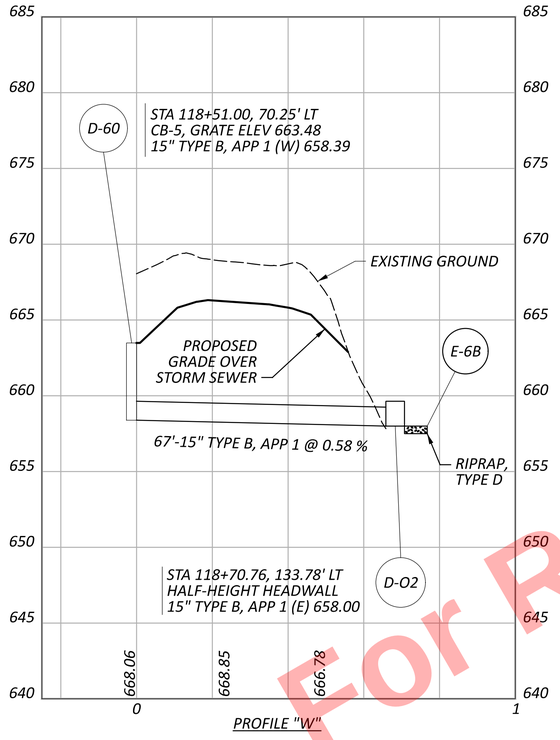

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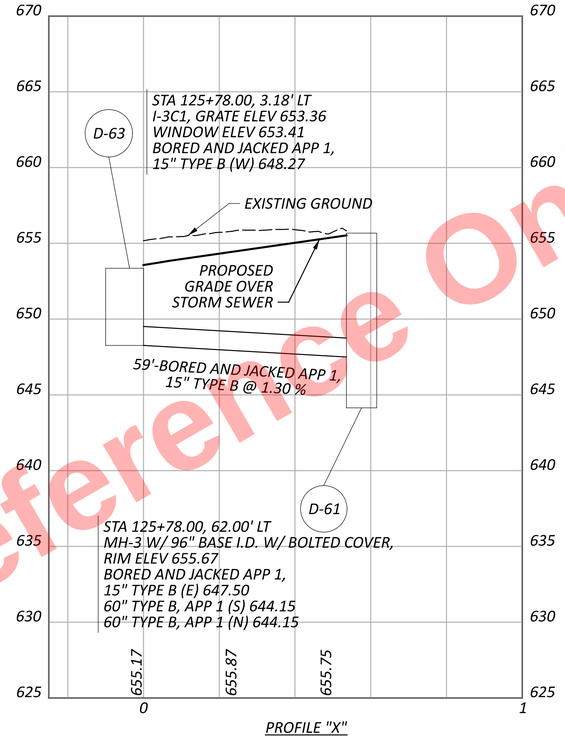
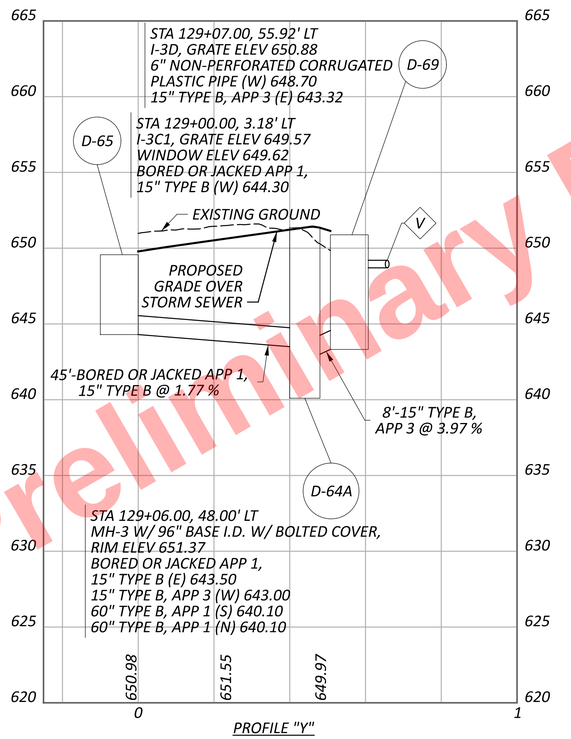
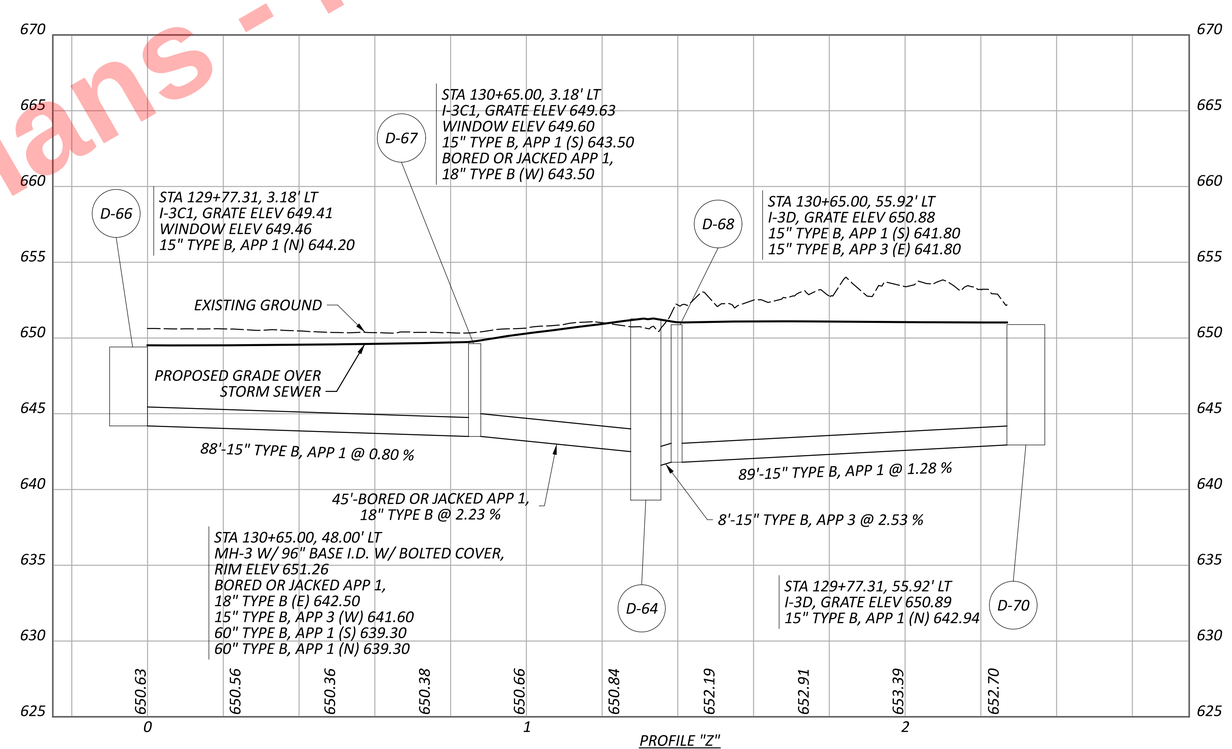


PROFILE "X"



PROFILE "Y"



PROFILE "Z"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILES "V", "W", "X", "Y", "Z"

DESIGN AGENCY
AECOM

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AKM 05/01/26

PROJECT ID
105743

SHEET P.803 | TOTAL P.1269

CUY-77-11.41 - PART 1

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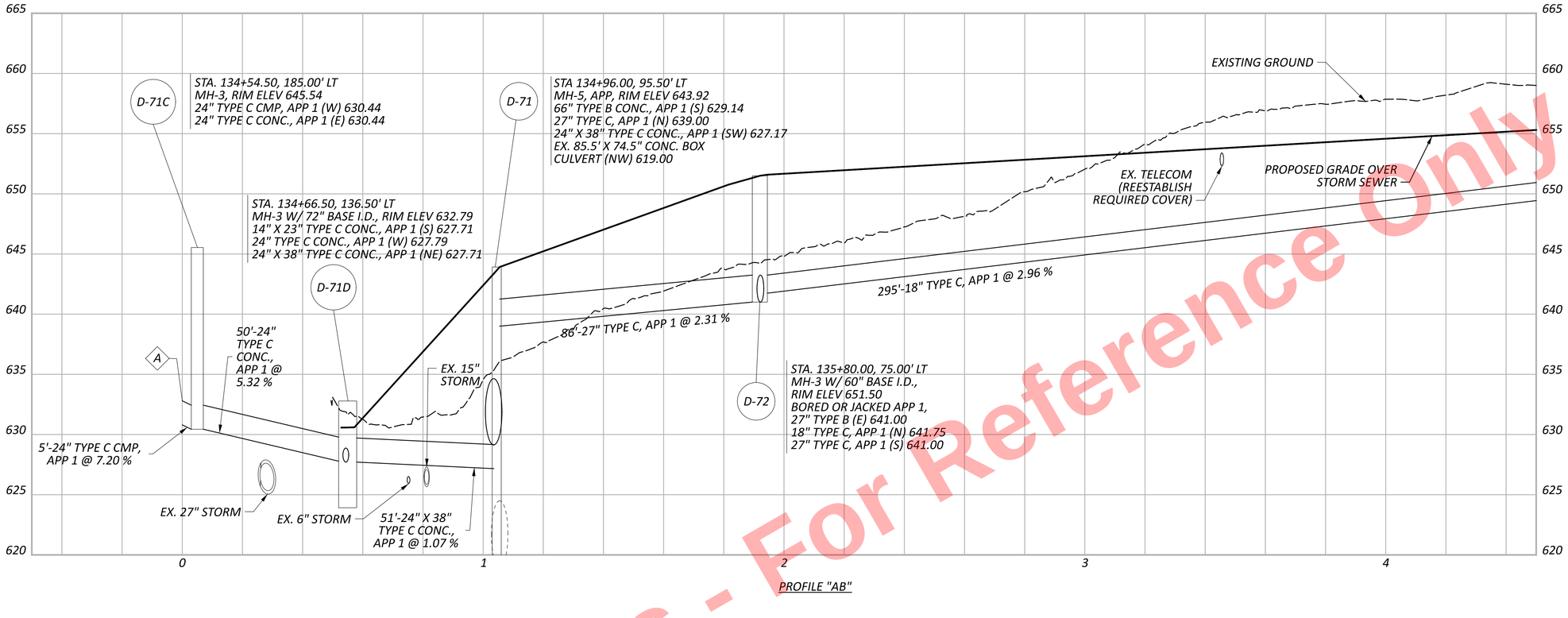

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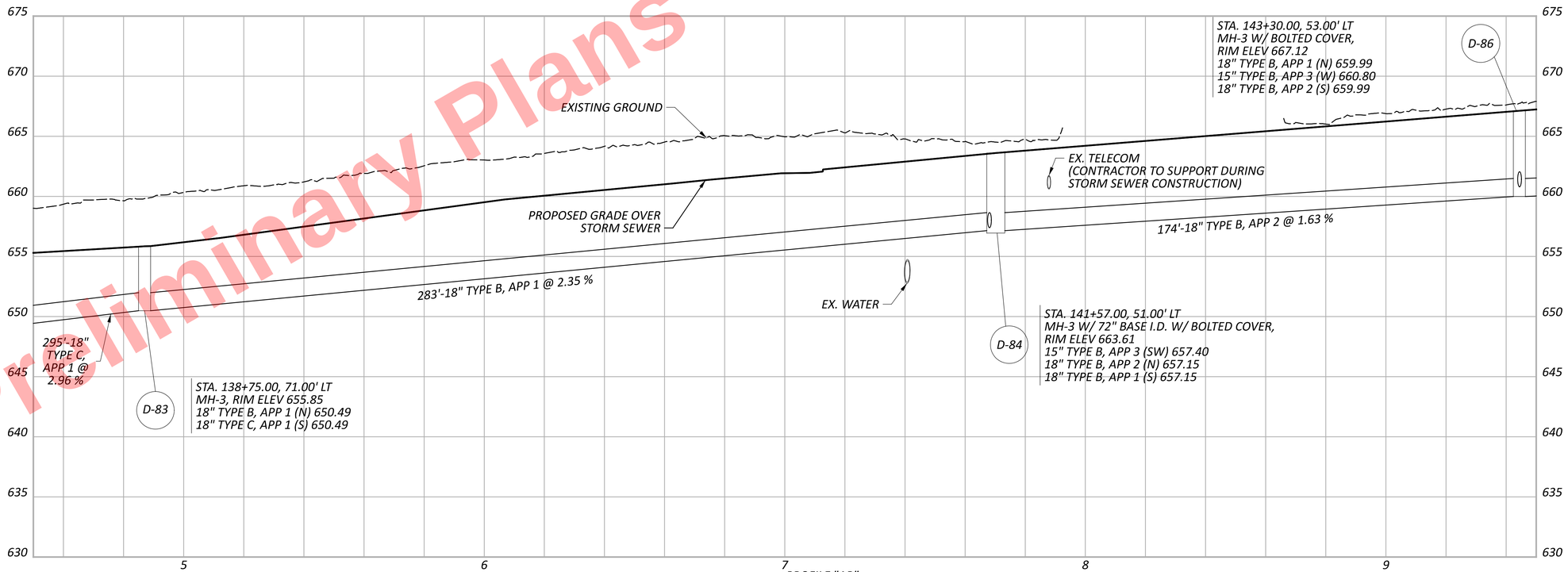


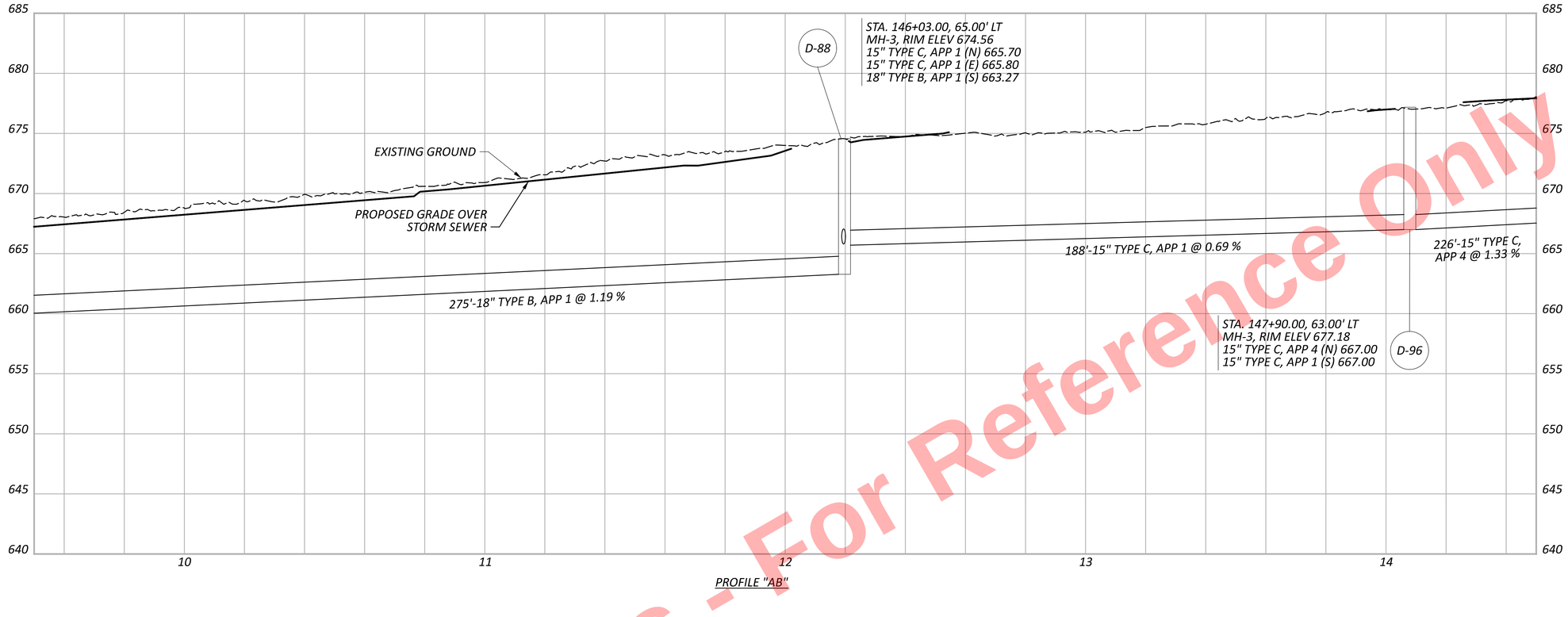
PROFILE "AB"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILE "AB"

DESIGN AGENCY
AECOM

DESIGNER	SMS
REVIEWER	AKM 11/17/25
PROJECT ID	105743
SHEET	P.804
TOTAL	P.1269



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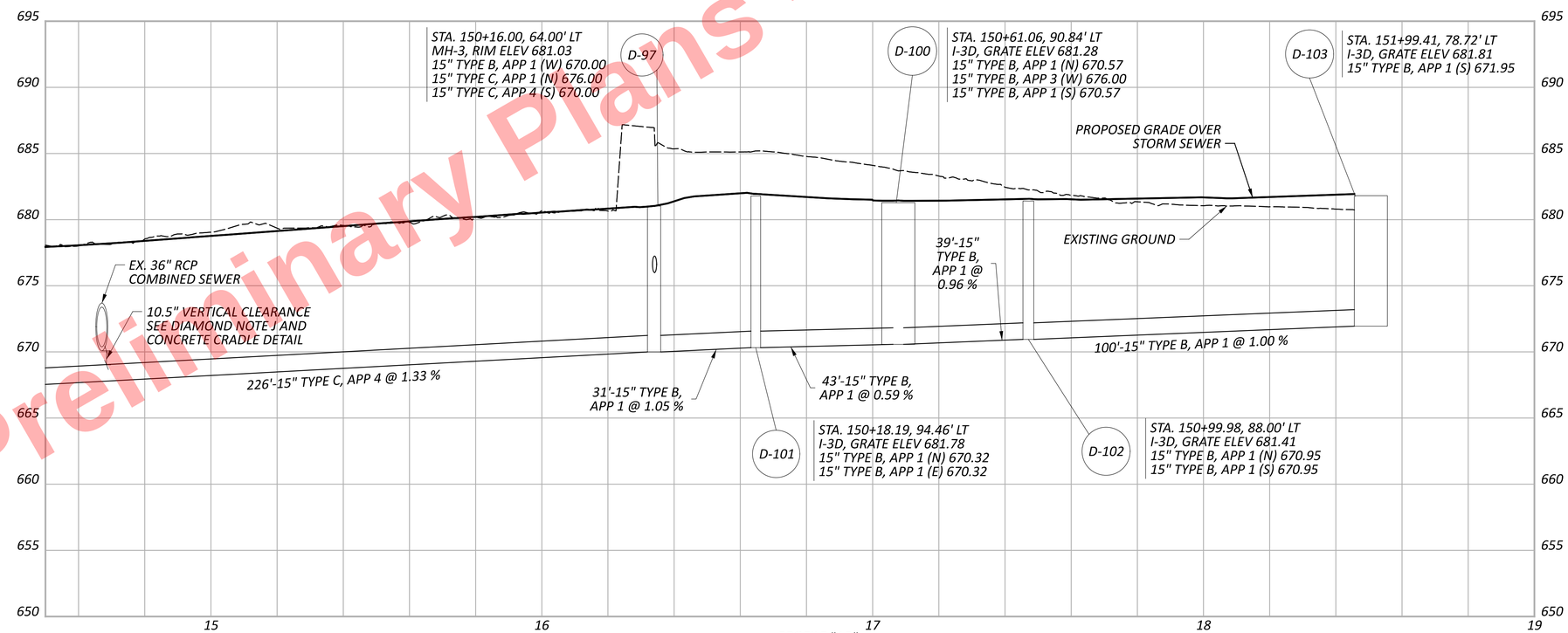

PROFILE "AB"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILE "AB"

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
105743

SHEET P.805 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet 2 - Profile AB - 2025 - Profile AB - 2027 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:05:14 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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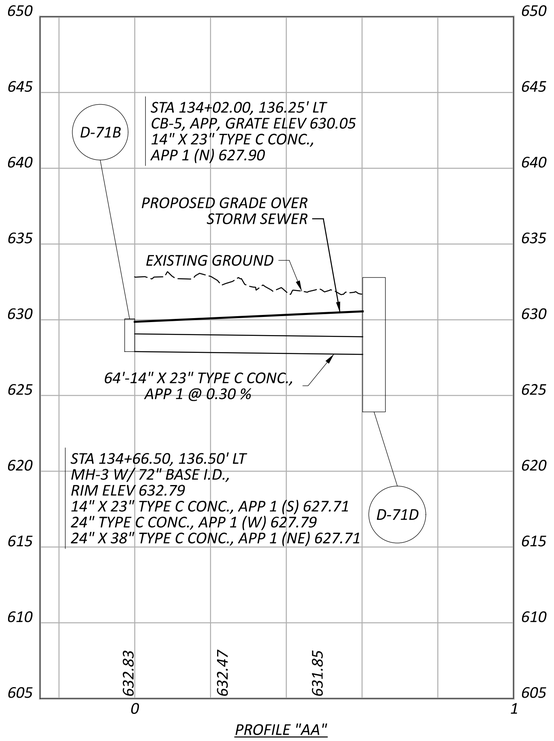

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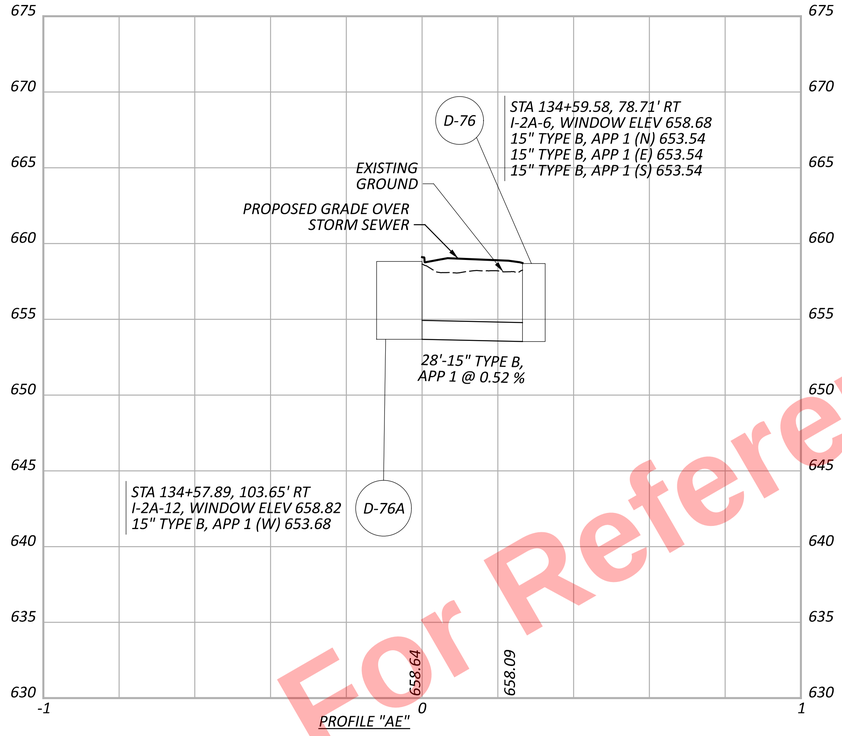

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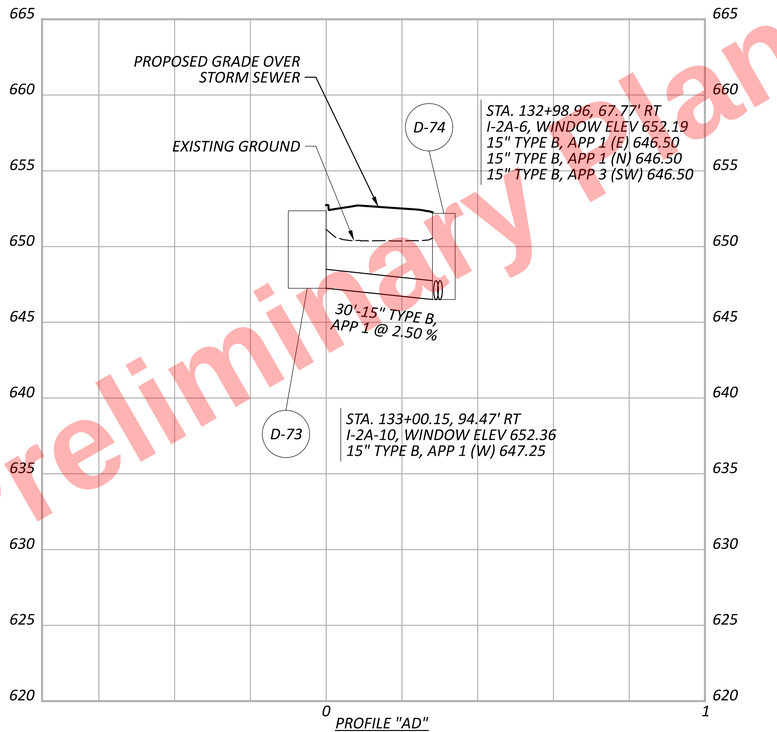
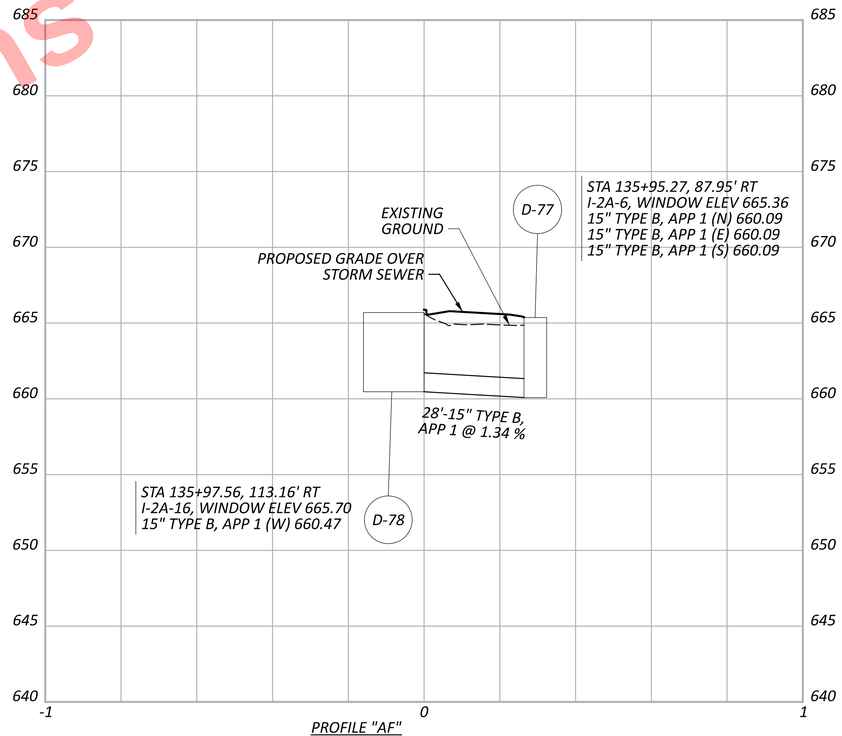


PROFILE "AD"



PROFILE "AF"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILES "AA", "AD", "AE", "AF"

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
105743

SHEET P.806 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet 3 - Sewer Profile AA - Profile Run AA-2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:05:15 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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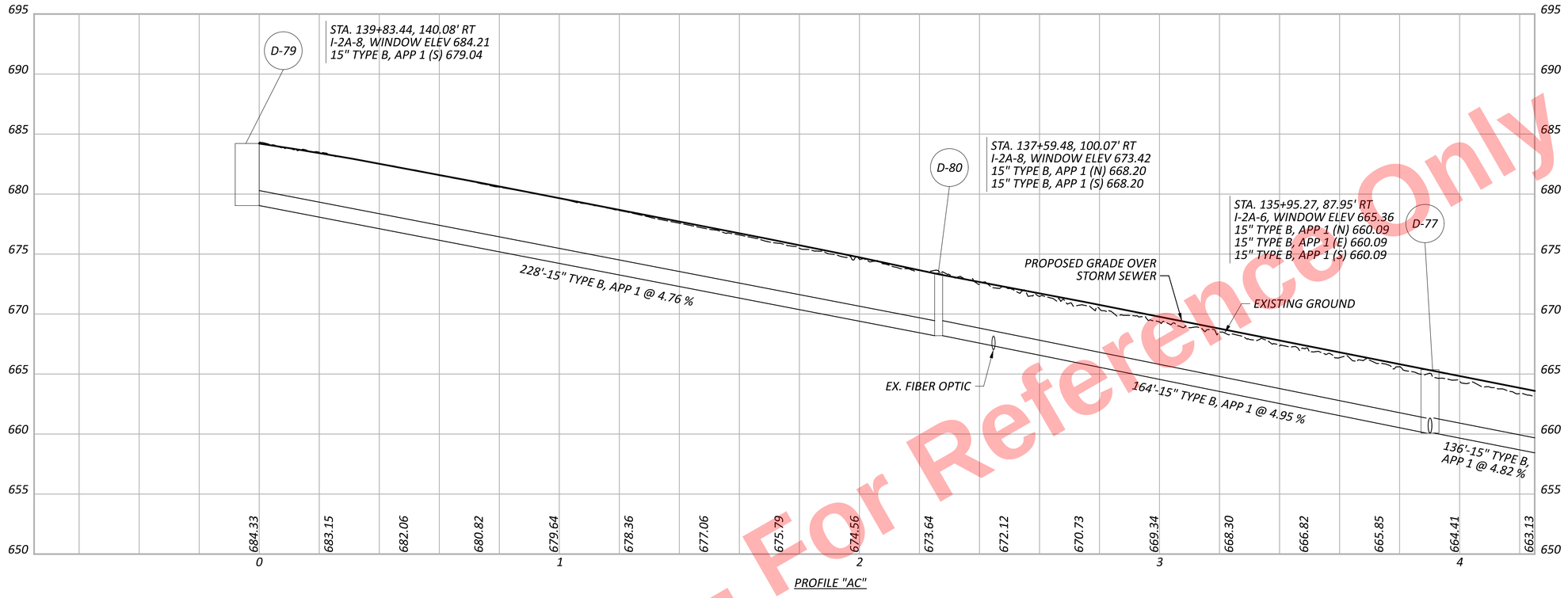
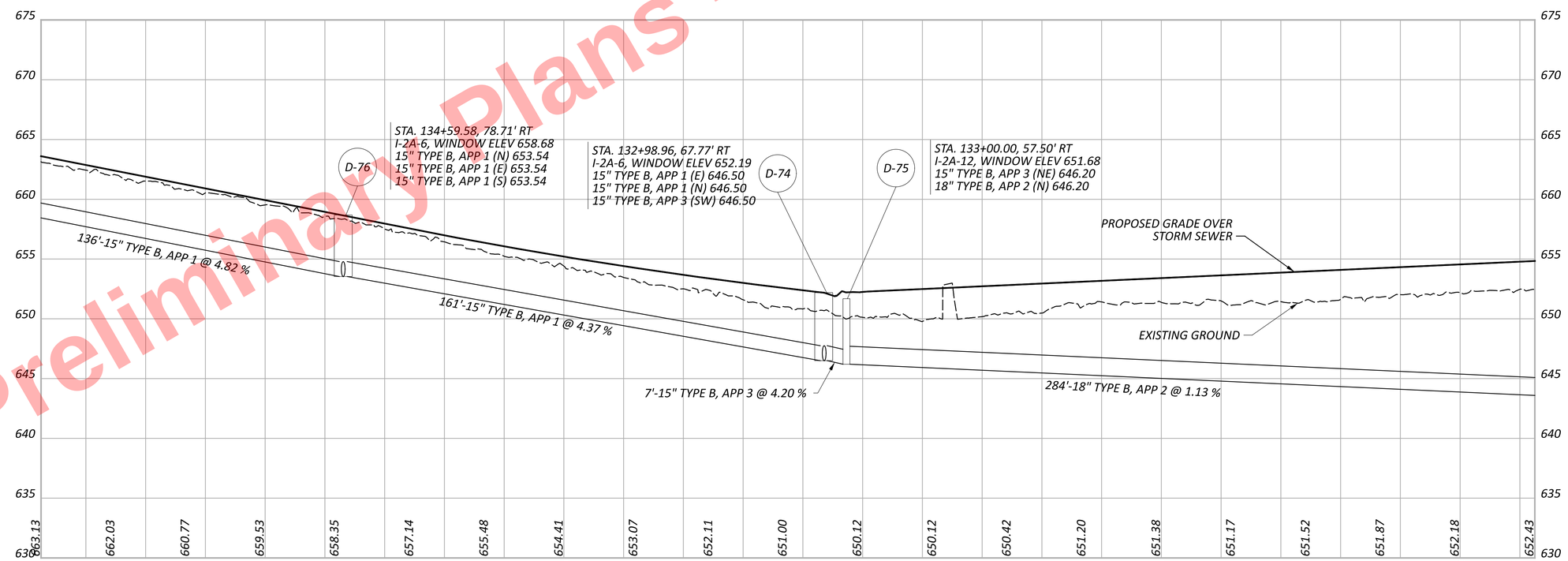
CUY-77-11.41 - PART 1



PROFILE "AC"



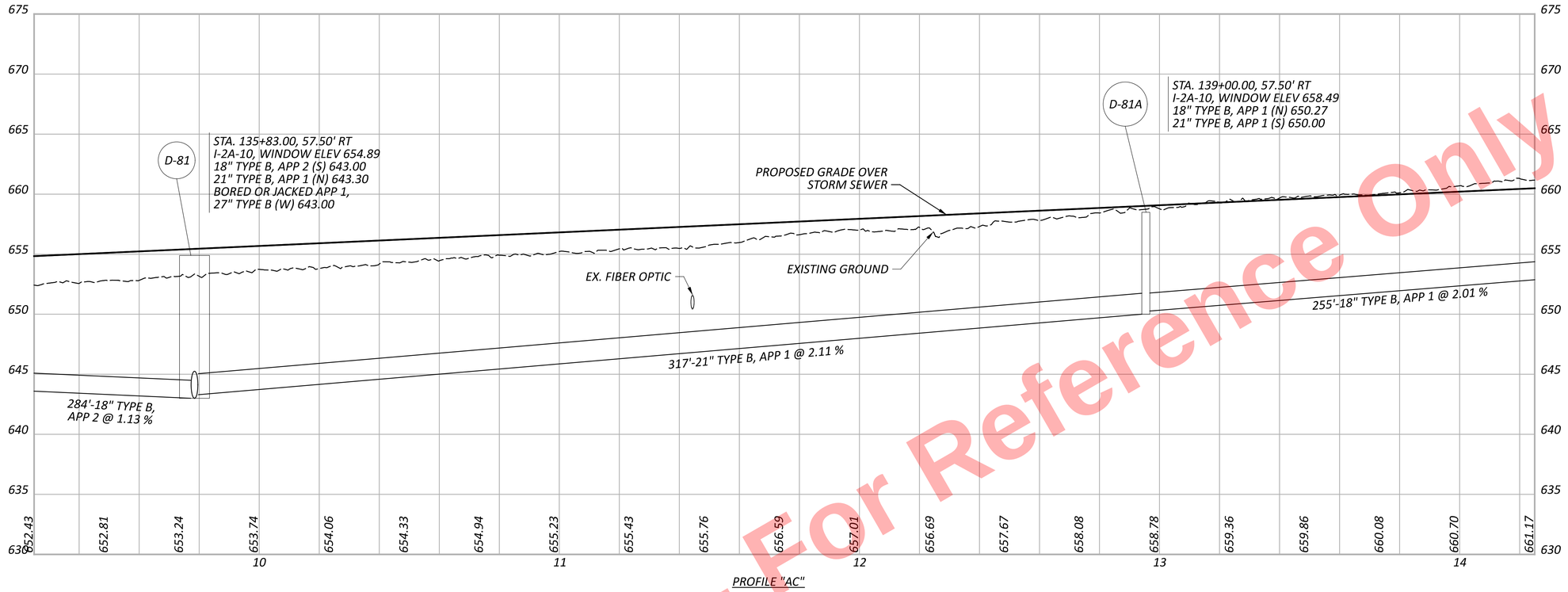
PROFILE "AC"

Preliminary Plans - For Reference Only

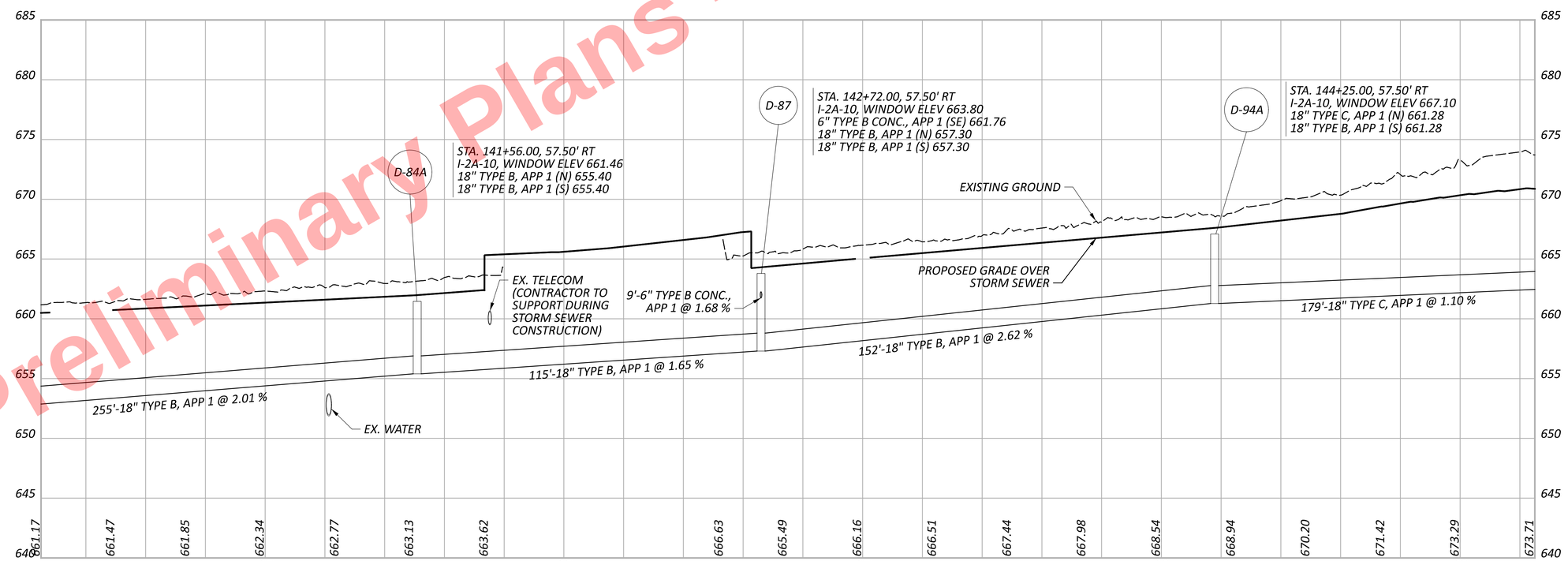
DRAINAGE PROFILES - I.R. 77
PROFILE "AC"

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.807 TOTAL P.1269



PROFILE "AC"



PROFILE "AC"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILE "AC"

CUY-77-11.41 - PART 1

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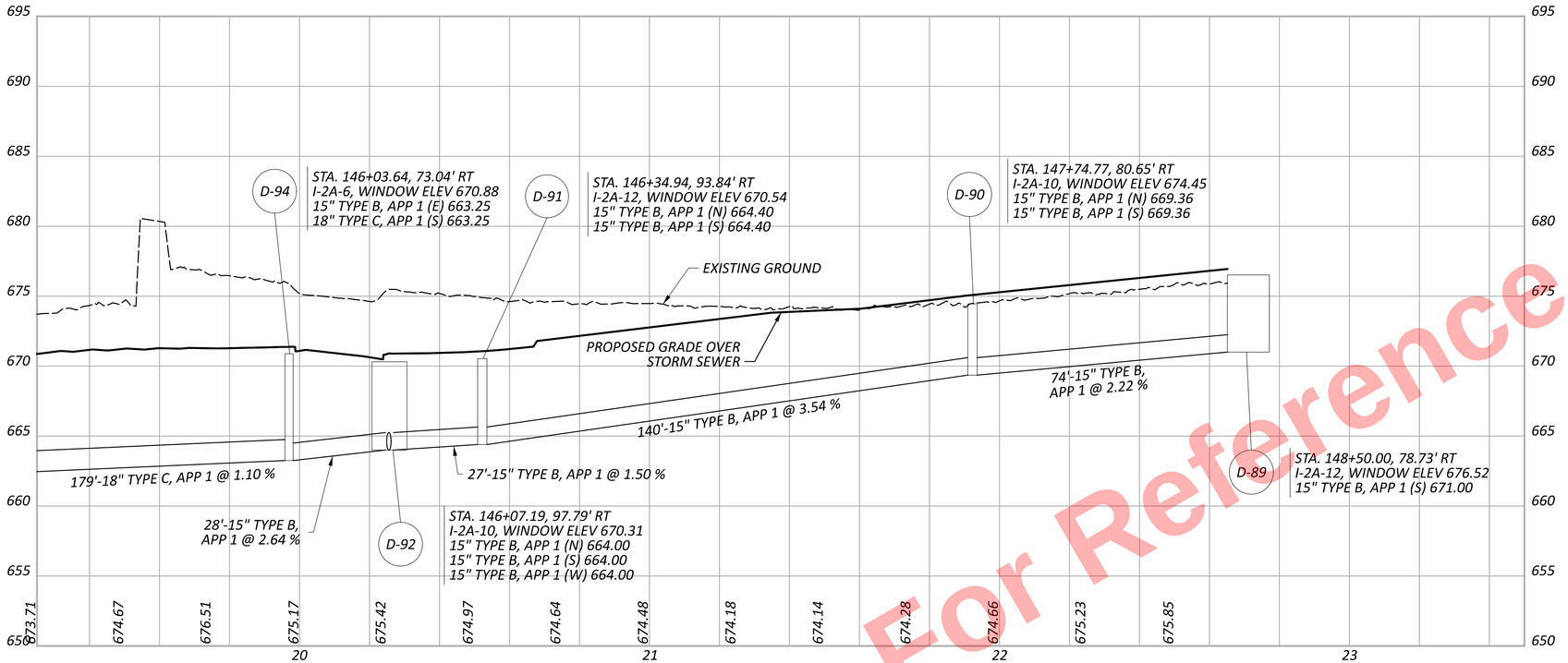
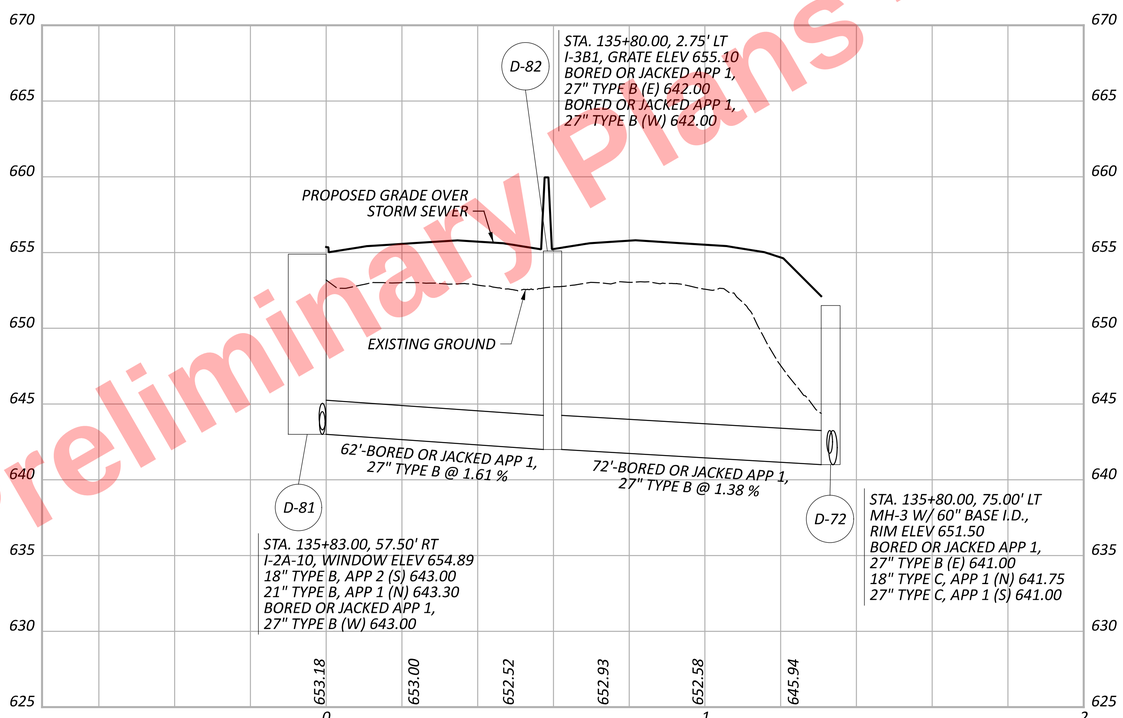
DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.808 TOTAL P.1269



PROFILE "AC"



PROFILE "AG"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILES "AC", "AG"

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
105743

SHEET P.809 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet 6 - Profile AC - 2025 - Profile AC - 2029 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:05:18 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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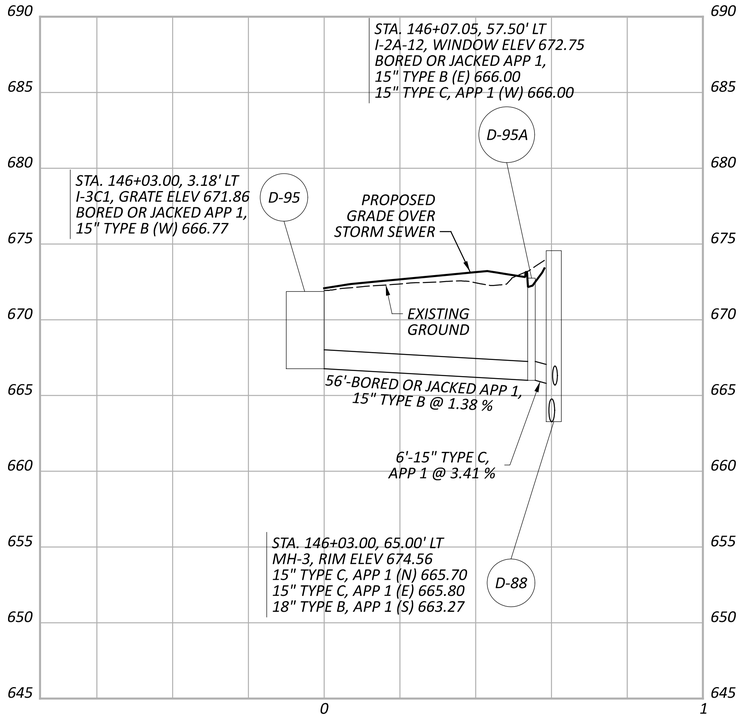

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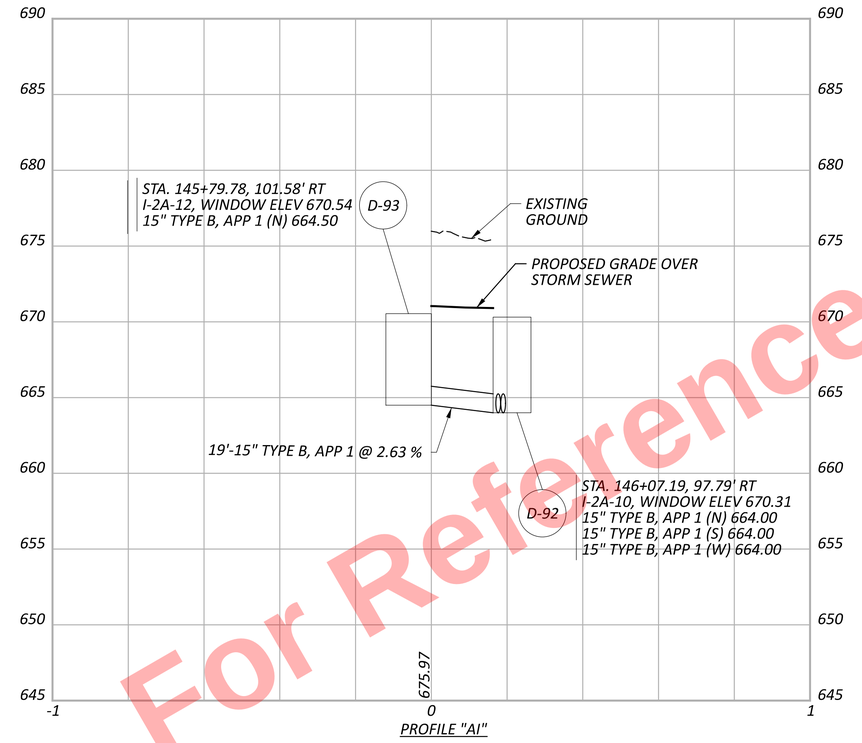

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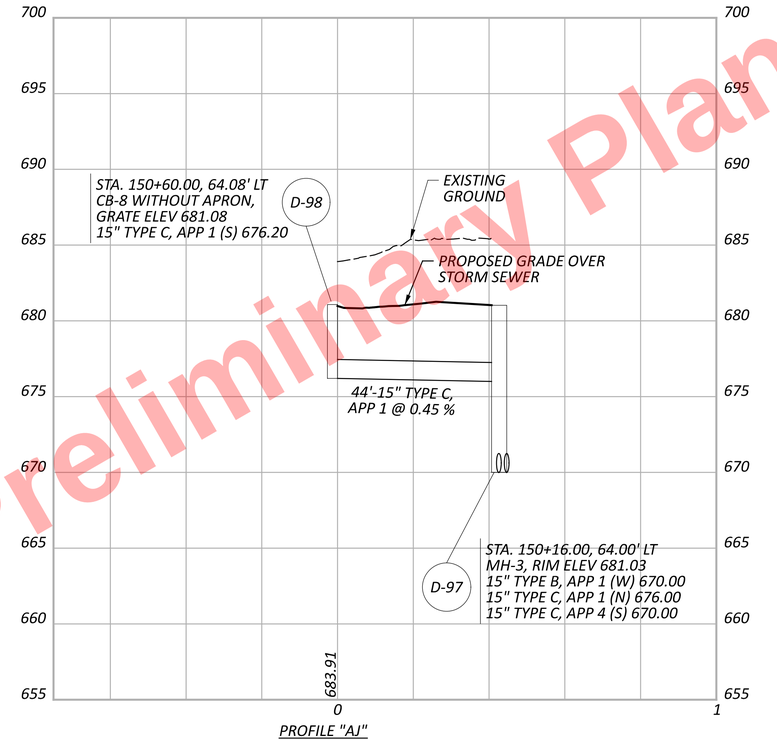

PROFILE "AJ"

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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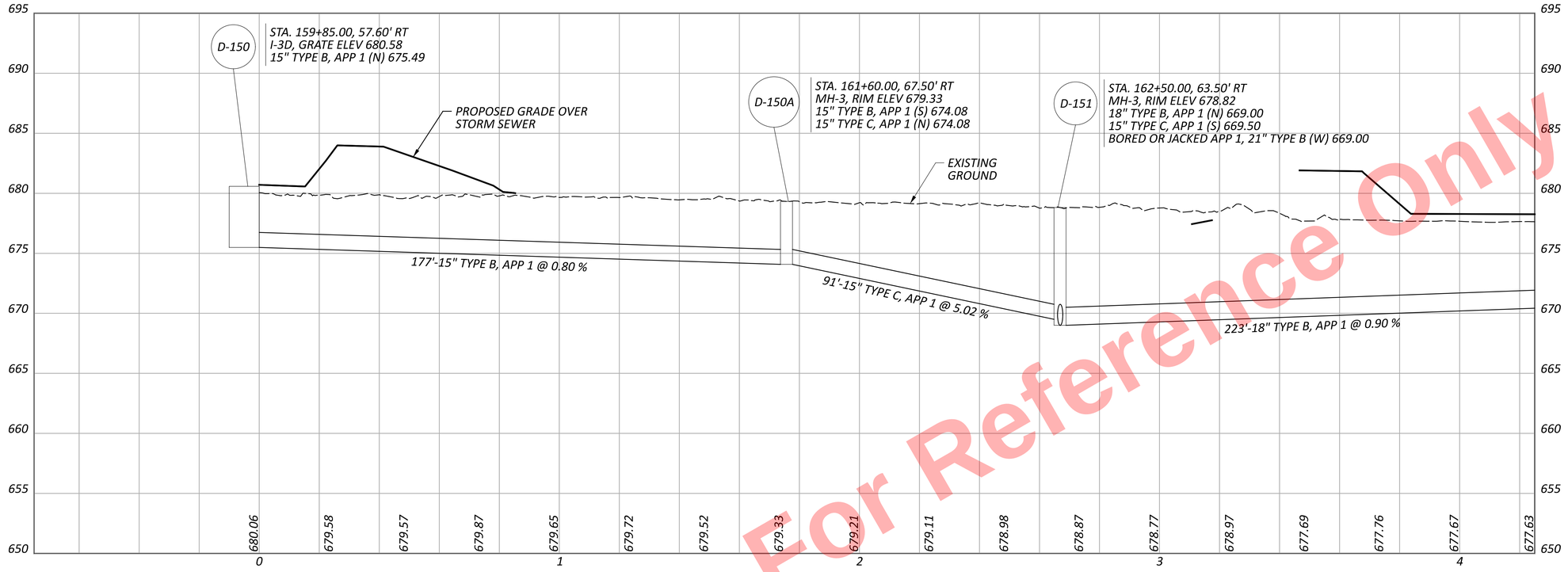
DRAINAGE PROFILES - I.R. 77
PROFILES "AH", "AI", "AJ"

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.810 TOTAL P.1269



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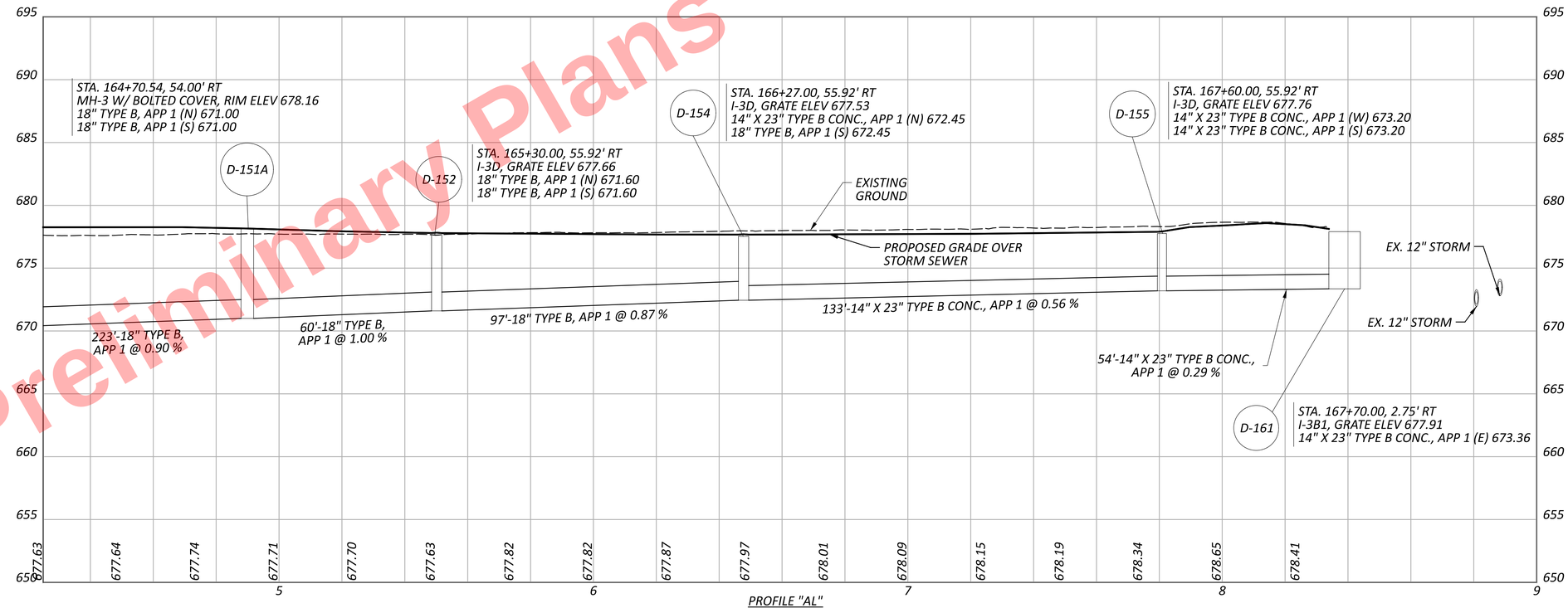

PROFILE "AL"

Preliminary Plans - Not For Reference Only

CUY-77-11.41 - PART 1

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DRAINAGE PROFILES - I.R. 77
PROFILE "AL"

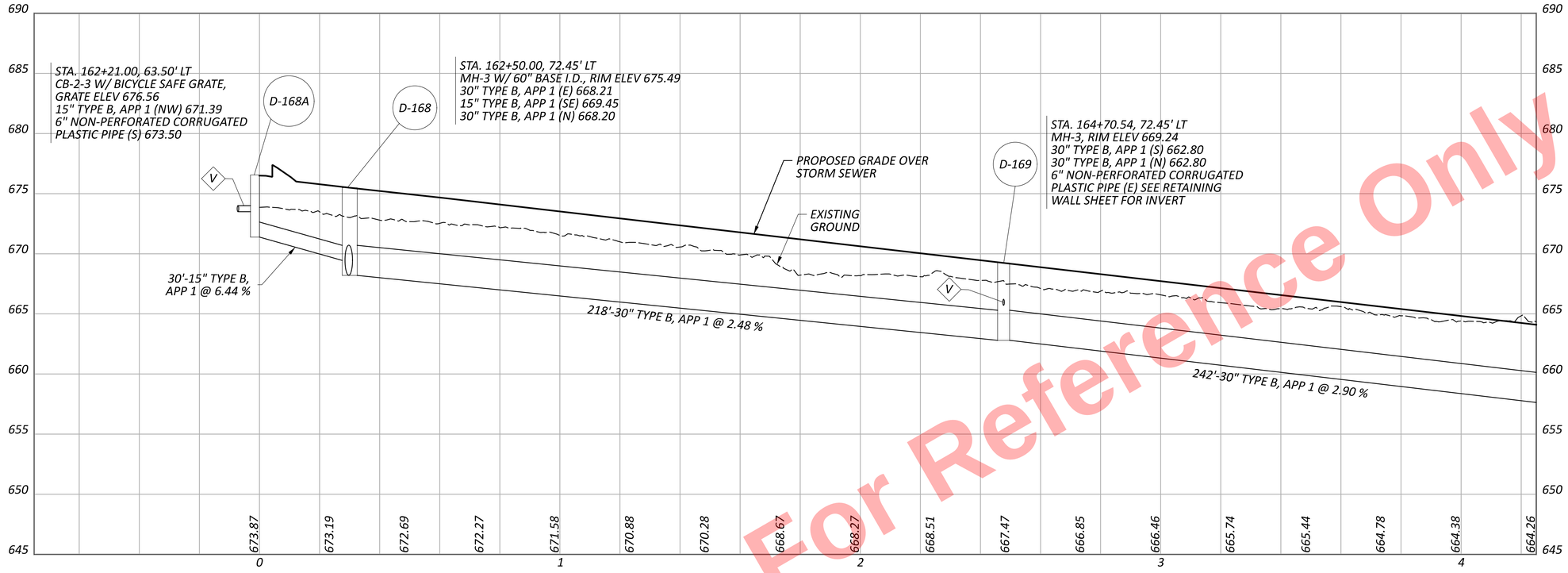
DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.811 TOTAL P.1269



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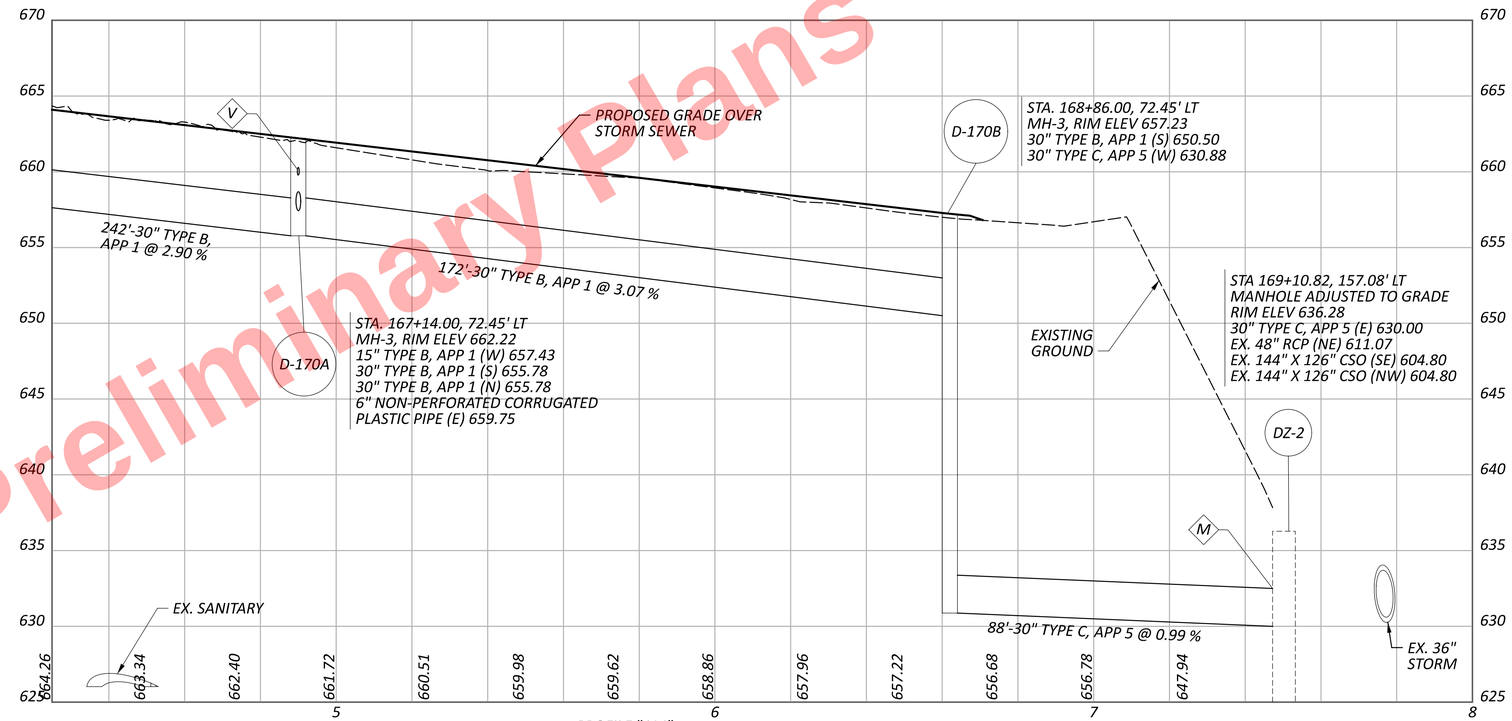

PROFILE "AM"

Preliminary Plans - Not For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILE "AM"

DESIGN AGENCY	AECOM
DESIGNER	SMS
REVIEWER	AKM 05/01/26
PROJECT ID	105743
SHEET	P.812
TOTAL	P.1269

CUY-77-11.41 - PART 1

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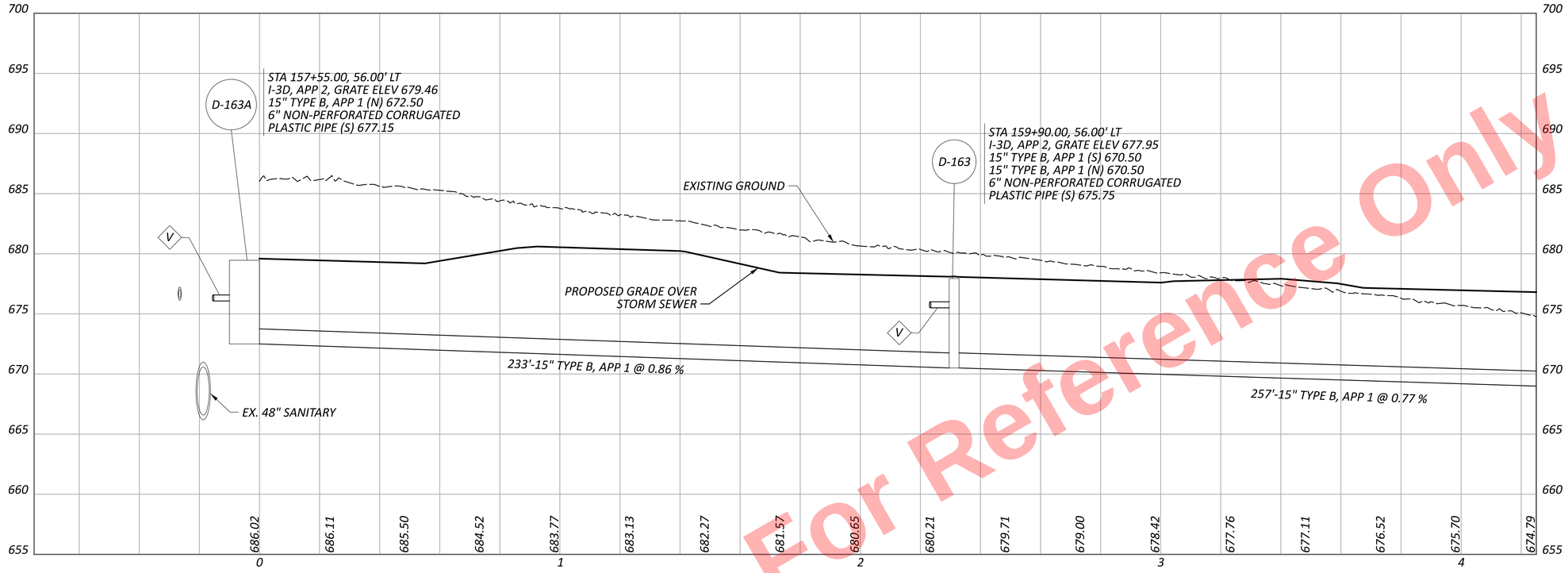
CUY-77-11.41 - PART 1



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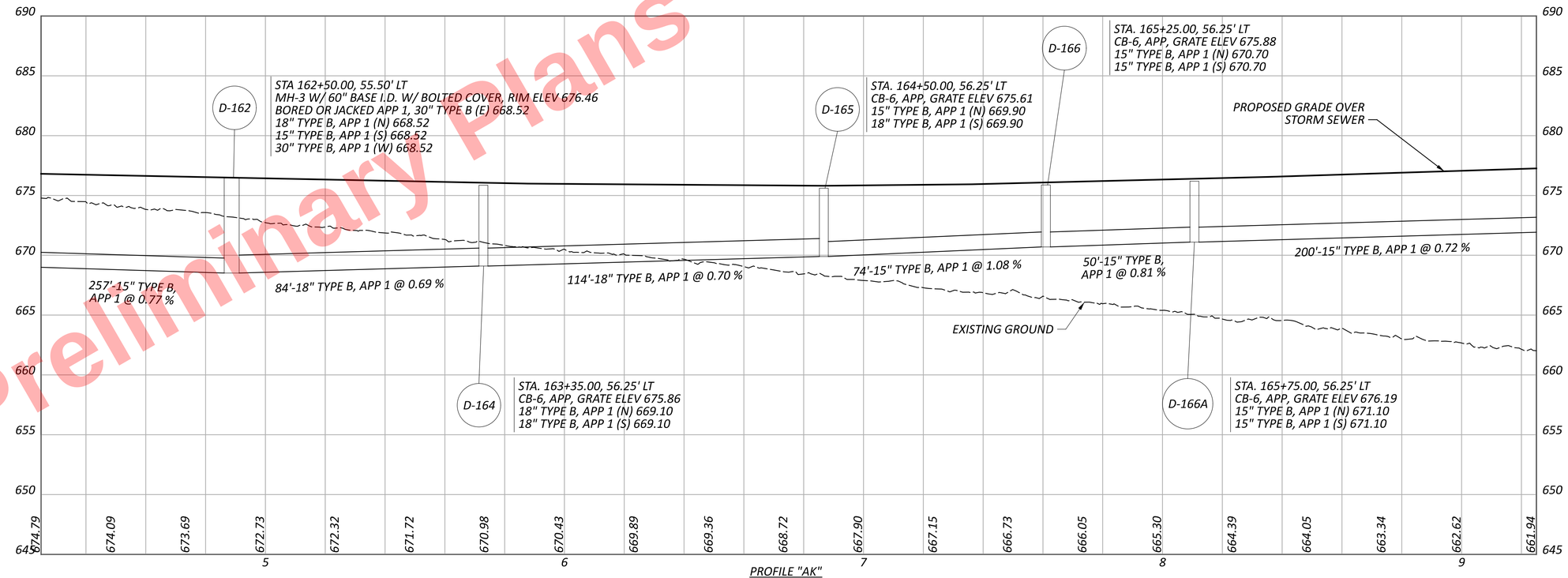


PROFILE "AK"

Preliminary Plans - Not For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILE "AK"

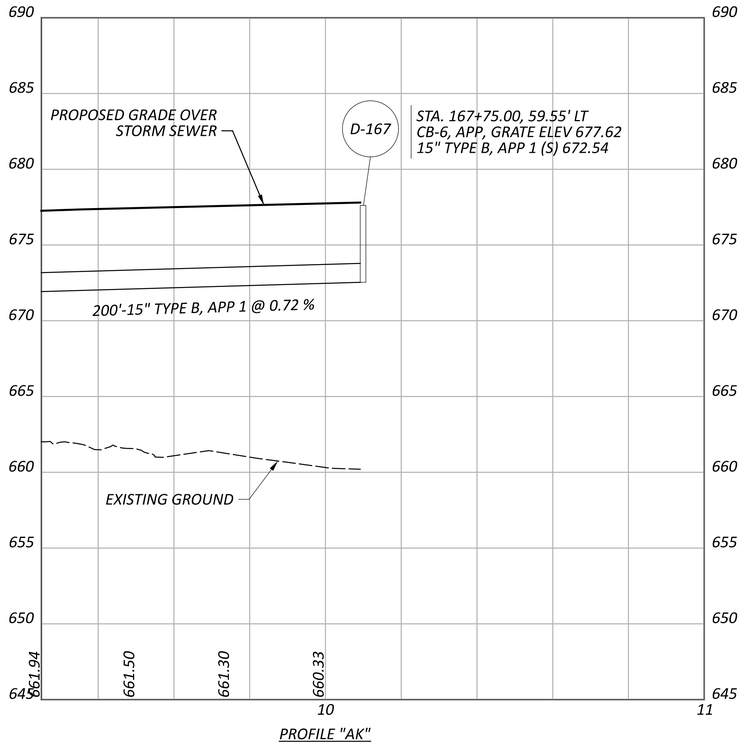
DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.813 | TOTAL P.1269



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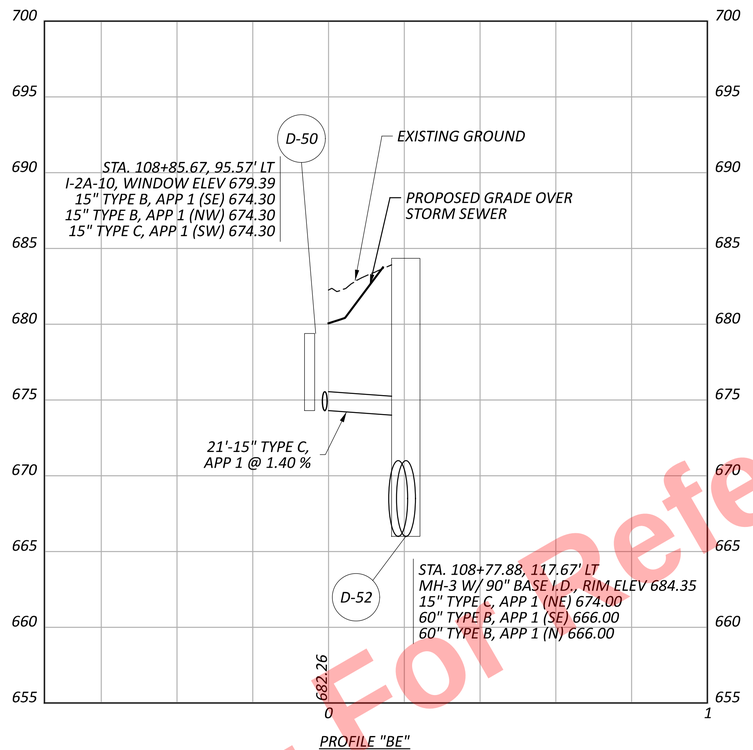

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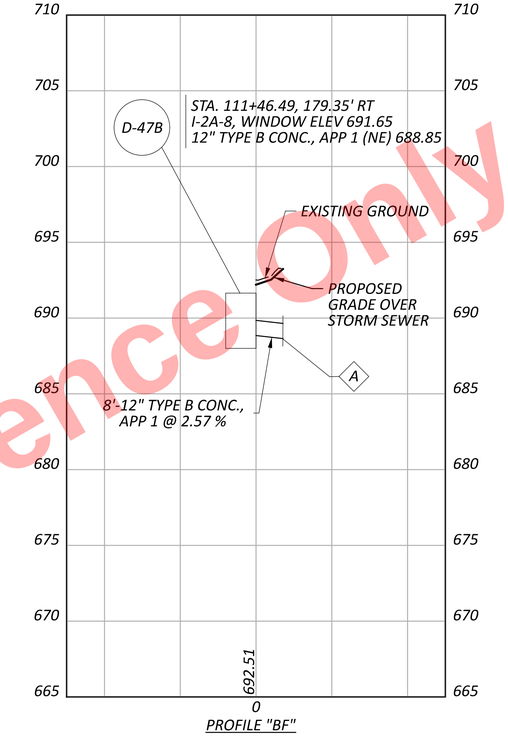
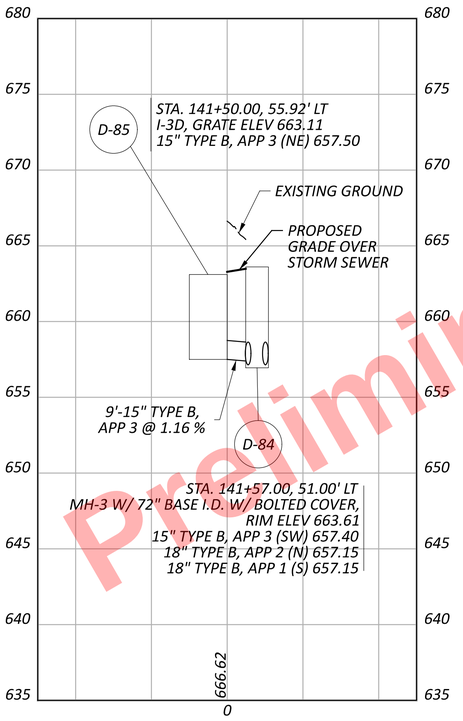
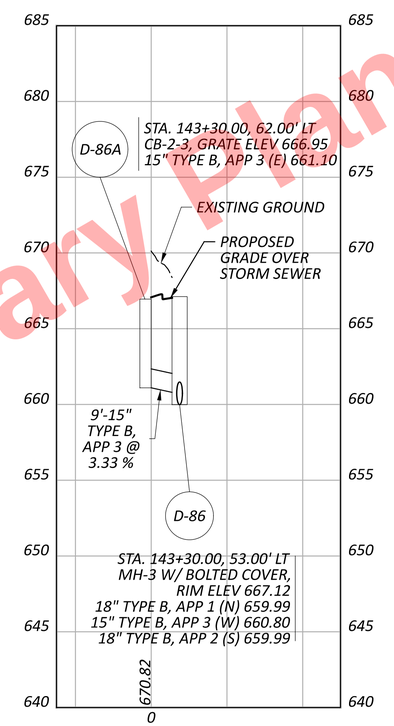


PROFILE "BF"



PROFILE "BG"



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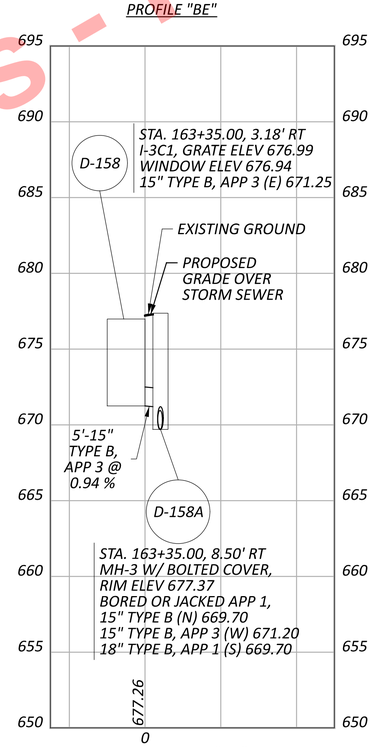

PROFILE "BN"

Preliminary Plans - For Reference Only

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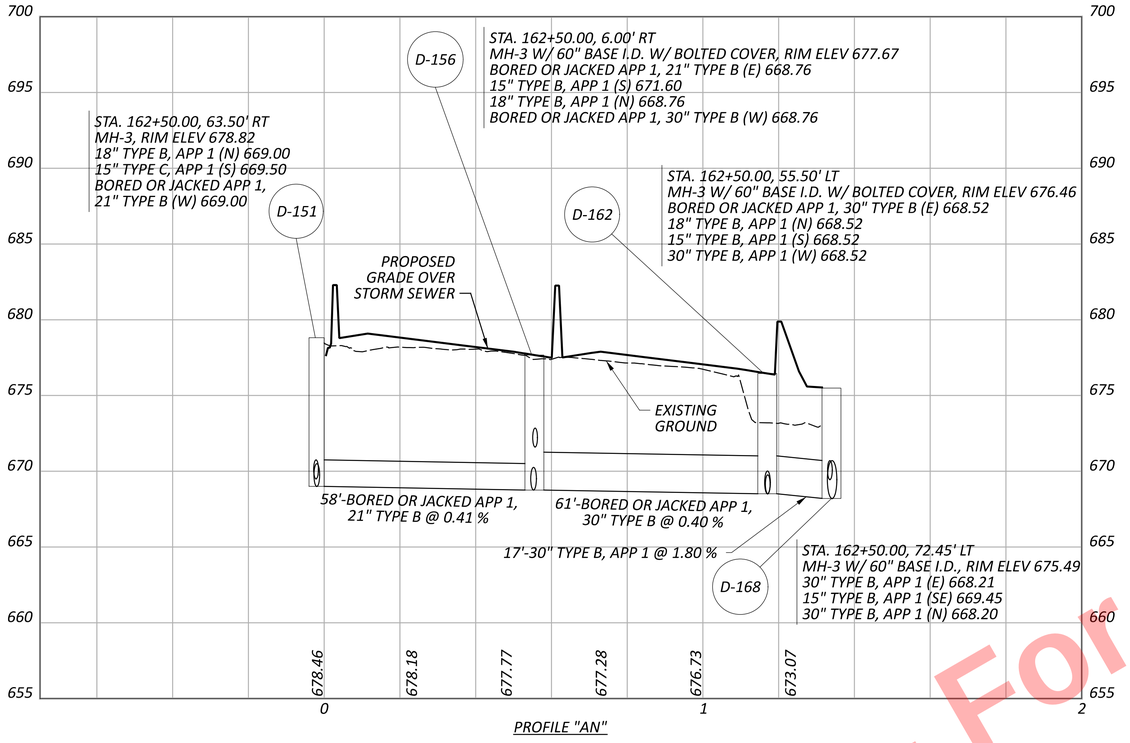
CUY-77-11.41 - PART 1

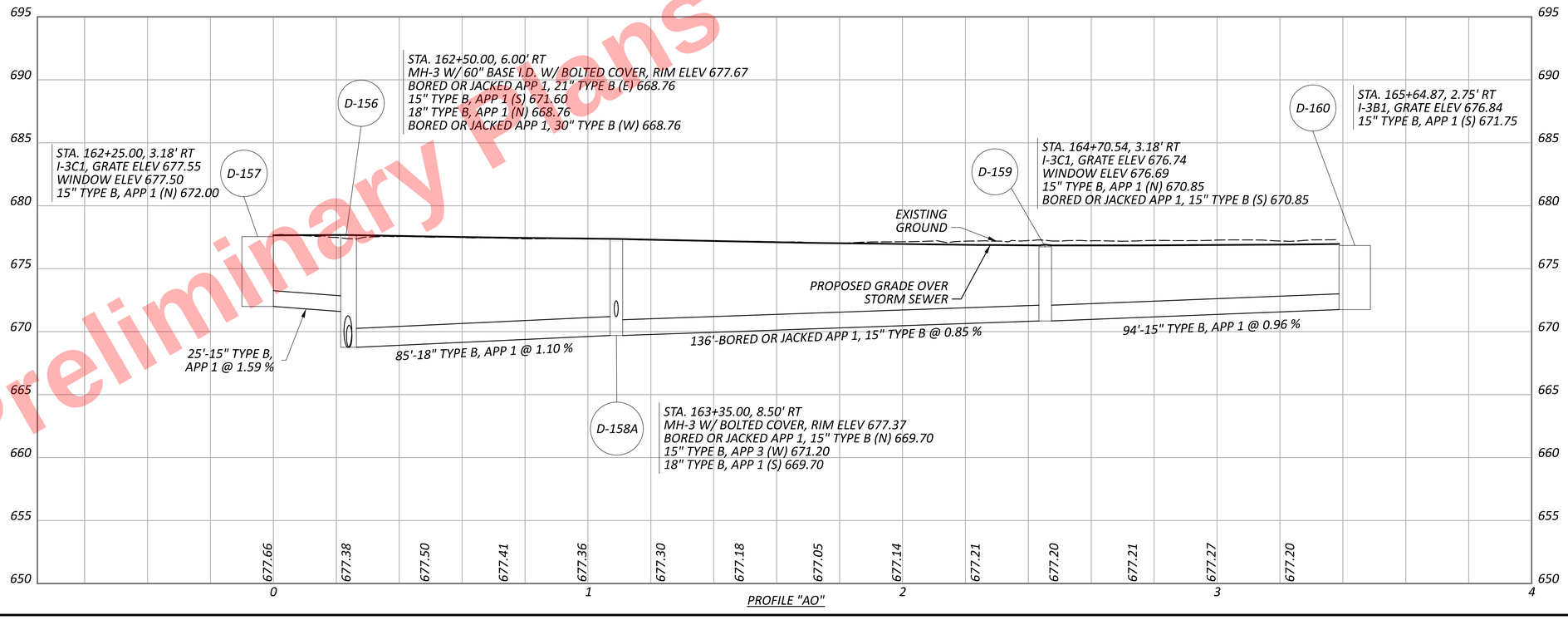
DRAINAGE PROFILES - I.R. 77
PROFILES "AK", "BE", "BF", "BG", "BL", "BN"

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.814 TOTAL P.1269



PROFILE "AN"



PROFILE "AO"

Preliminary Plans - Not For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILES "AN", "AO"

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 11/17/25

PROJECT ID
105743

SHEET P.815 TOTAL P.1269

CUY-77-11.41 - PART 1

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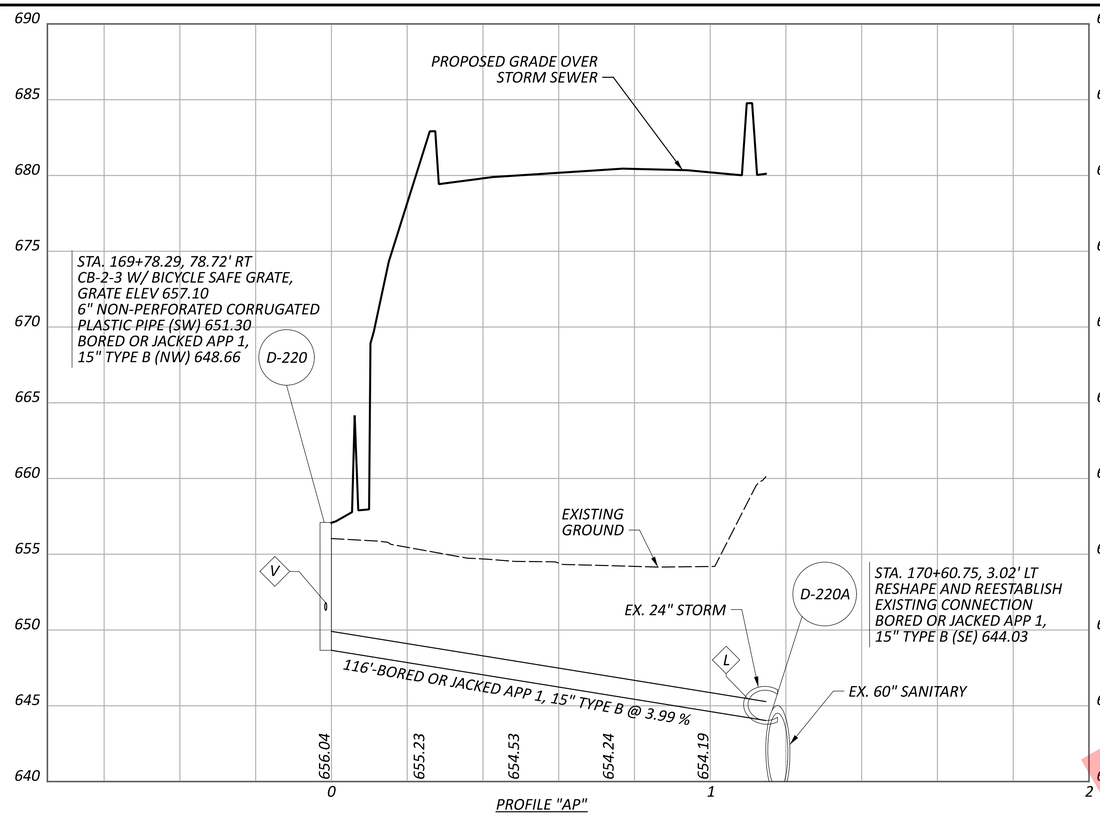

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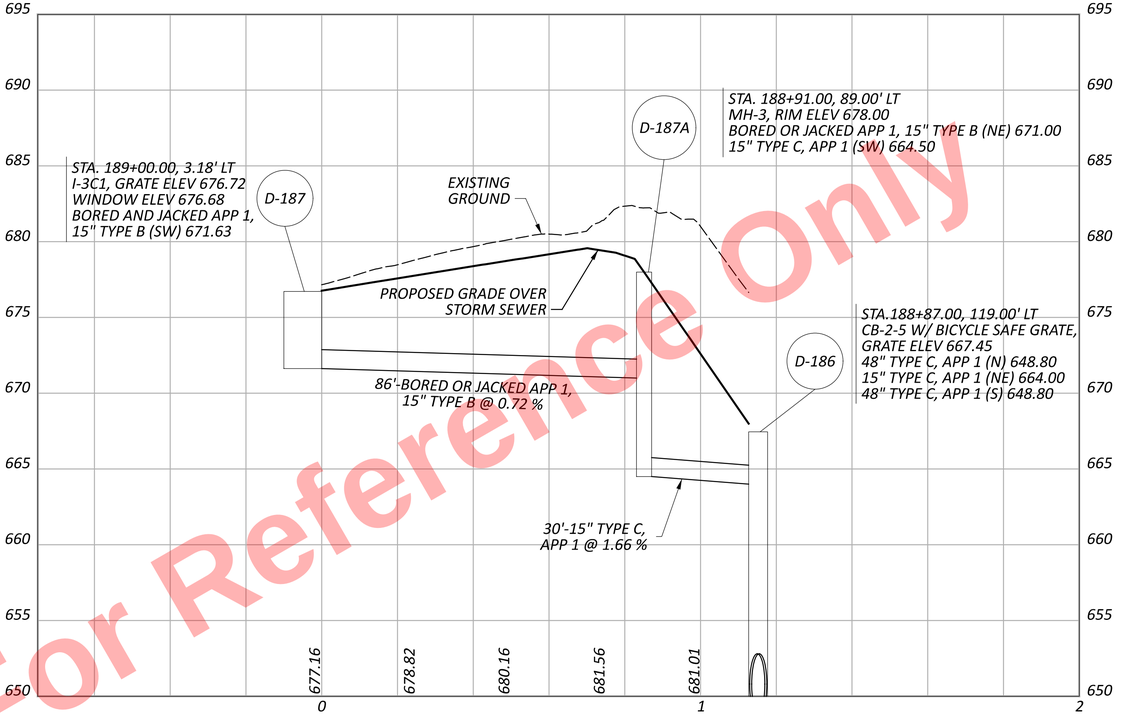

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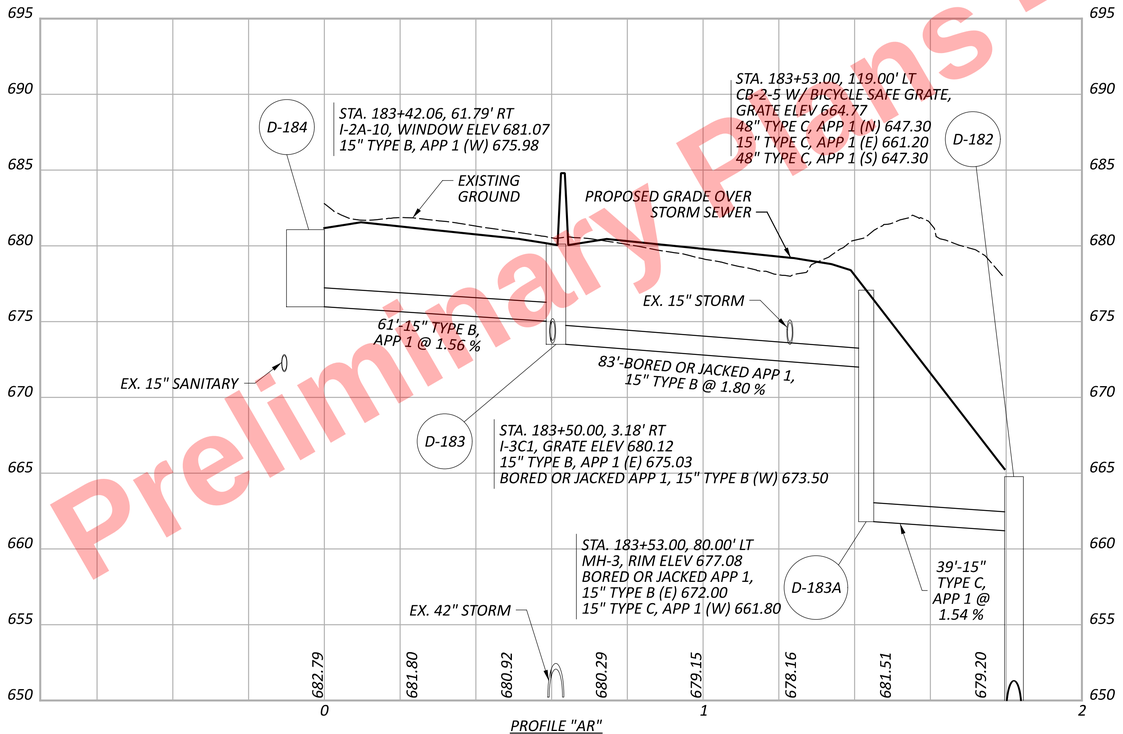

PROFILE "AR"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILES "AP", "AR", "AS"

CUY-77-11.41 - PART 1

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DESIGN AGENCY
AECOM

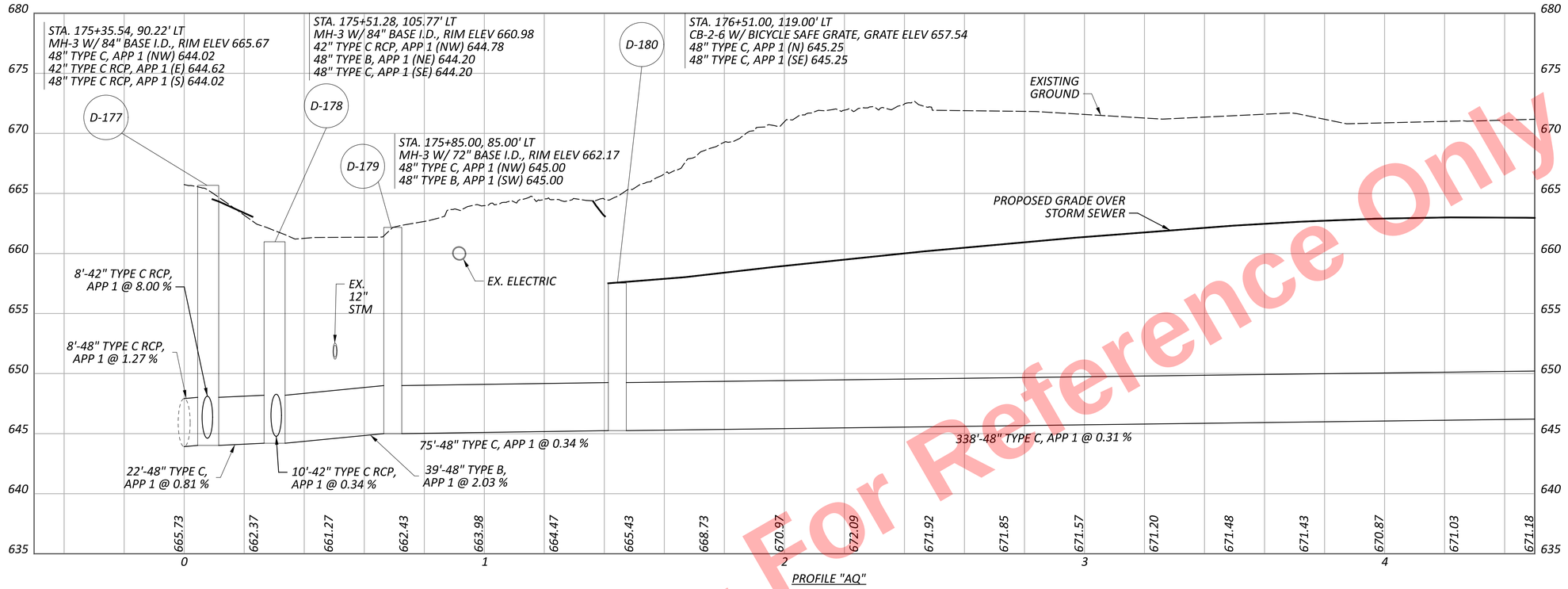
DESIGNER
SMS

REVIEWER
AKM 11/17/25

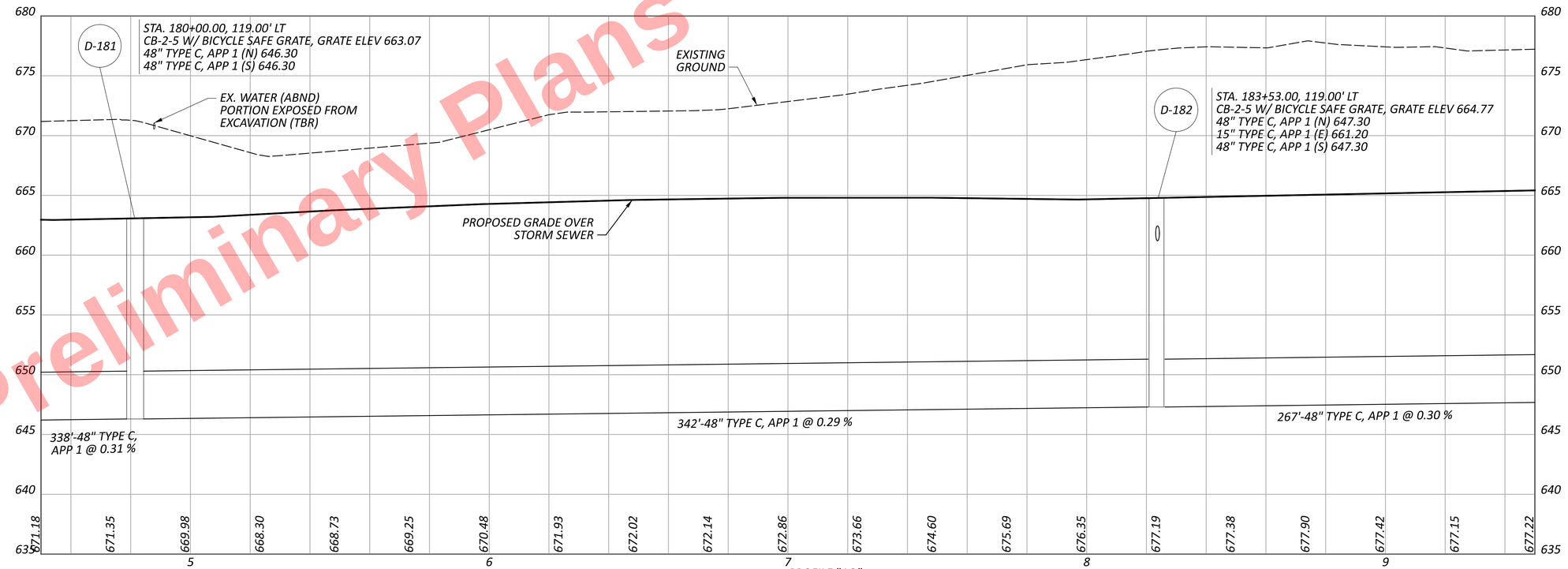
PROJECT ID
105743

SHEET P.816 | TOTAL P.1269

Preliminary Plans - For Reference Only



PROFILE "AQ"



PROFILE "AQ"

DRAINAGE PROFILES - I.R. 77
PROFILE "AQ"

DESIGN AGENCY
AECOM

DESIGNER
SMS
REVIEWER
AKM 11/17/25
PROJECT ID
105743
SHEET P.817 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet 3 - New Profile AQ - 2026 - AQ - 2026 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:00:56 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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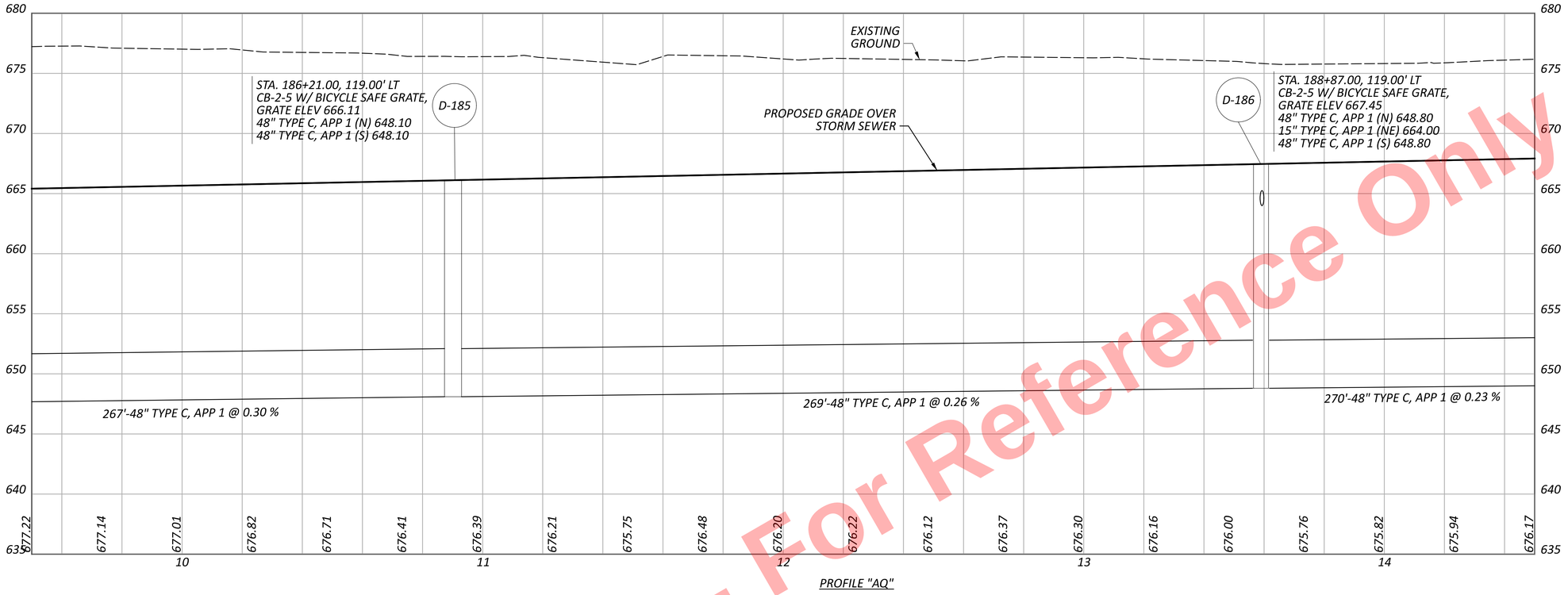
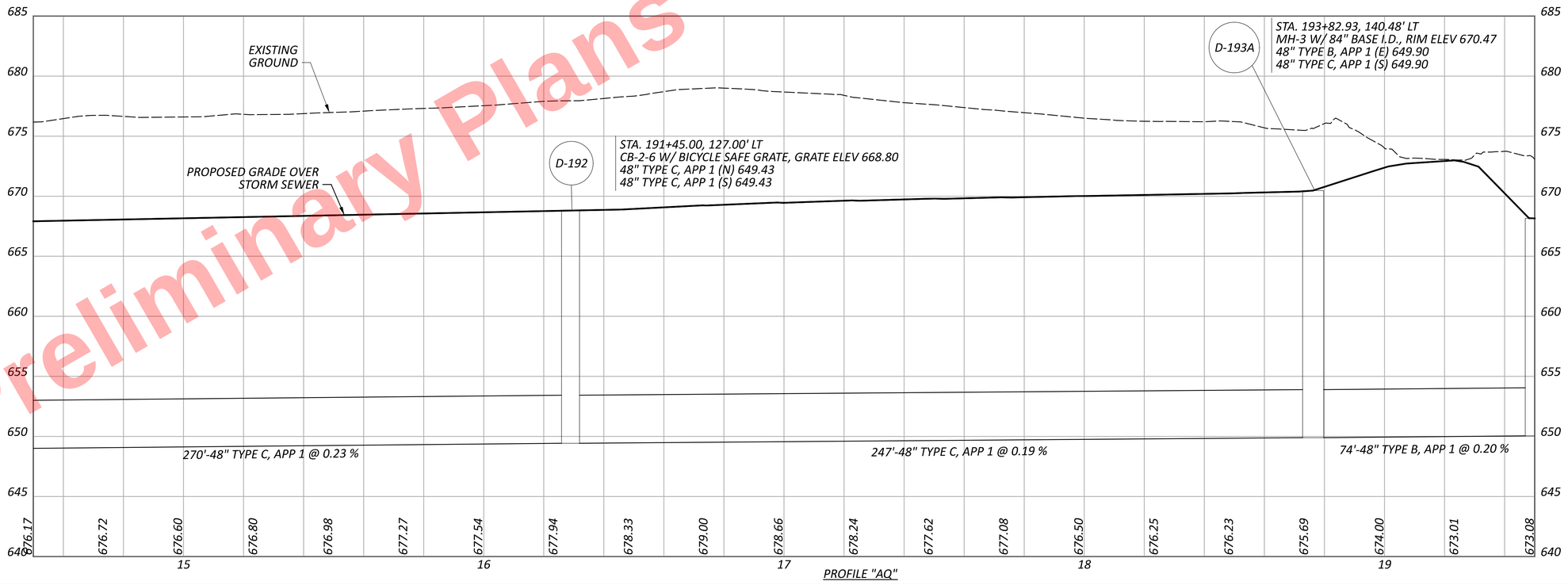
Preliminary Plans - For Reference Only



PROFILE "AQ"



PROFILE "AQ"

DRAINAGE PROFILES - I.R. 77
PROFILE "AQ"

CUY-77-11.41 - PART 1

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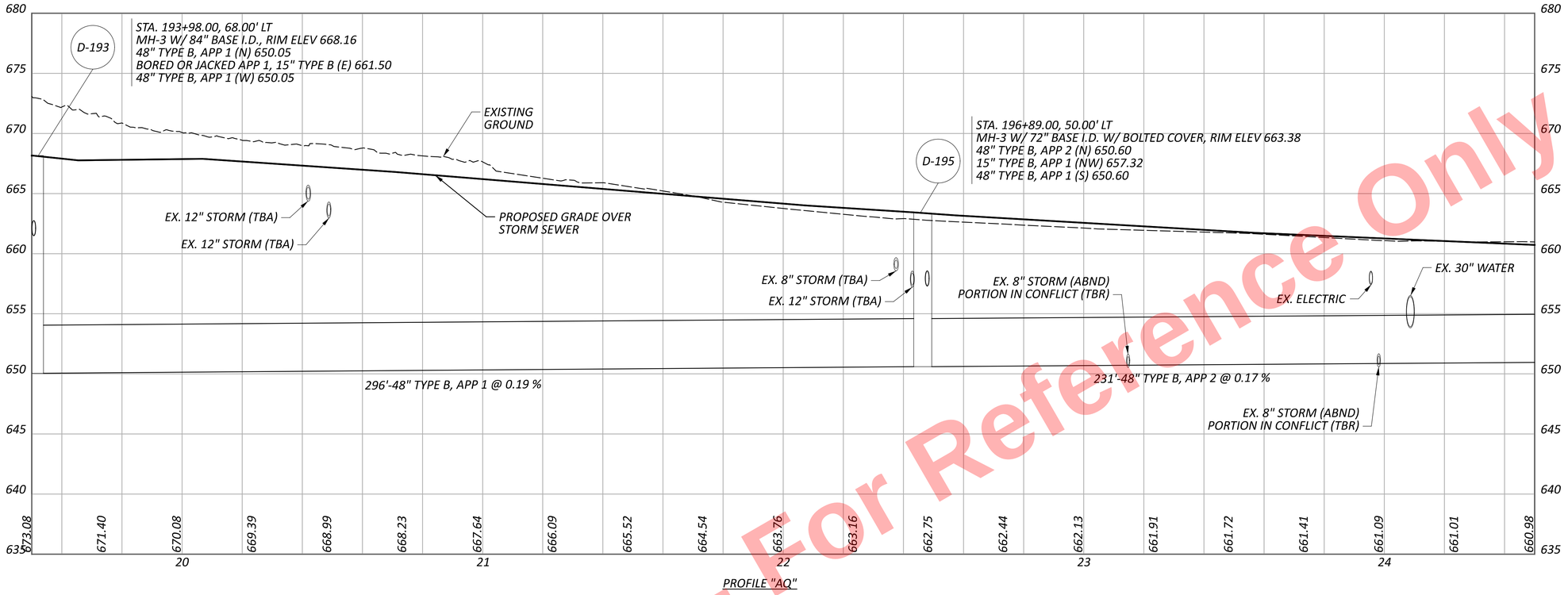
DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.818 TOTAL P.1269

Preliminary Plans - For Reference Only



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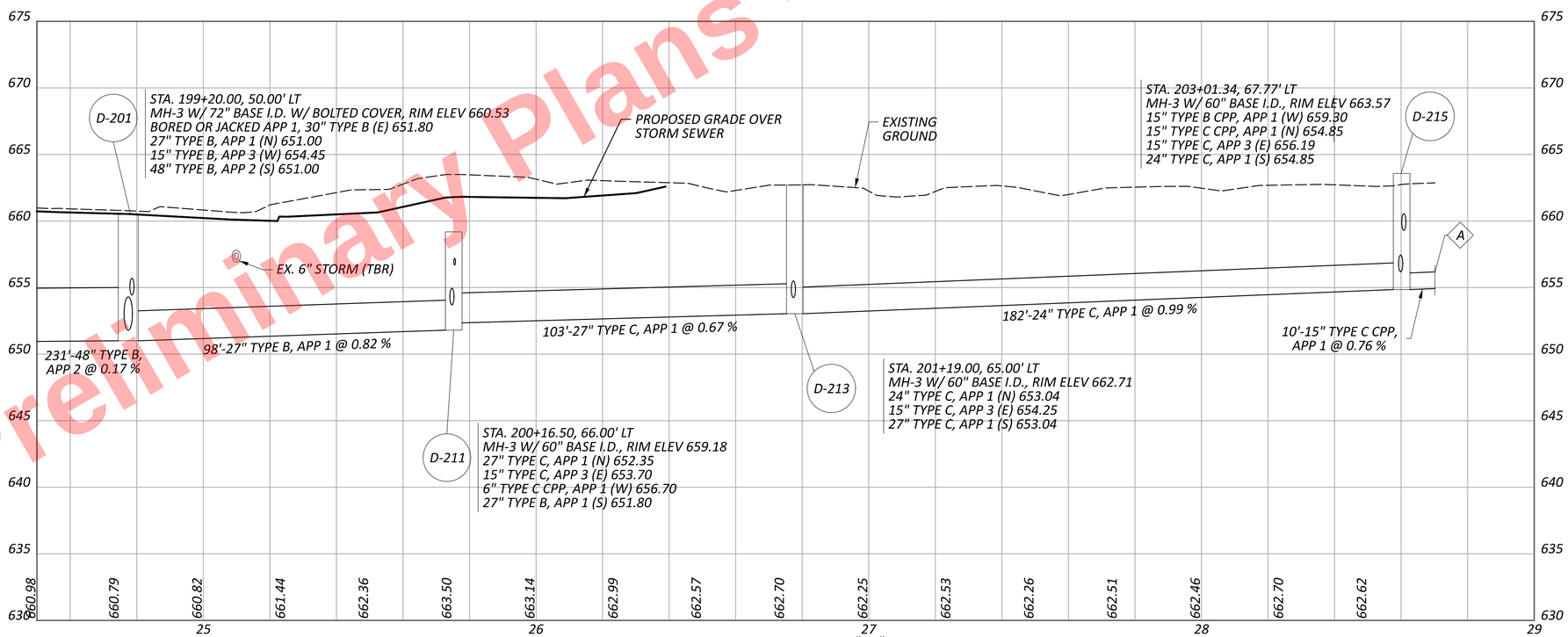

PROFILE "AQ"

DRAINAGE PROFILES - I.R. 77
PROFILE "AQ"

CUY-77-11.41 - PART 1

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DESIGN AGENCY
AECOM

DESIGNER	SMS
REVIEWER	AKM 11/17/25
PROJECT ID	105743
SHEET	P.819
TOTAL	P.1269

MODEL: Sheet 6 - Profile AT - 2025 - Profile AT - 2025 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:01:42 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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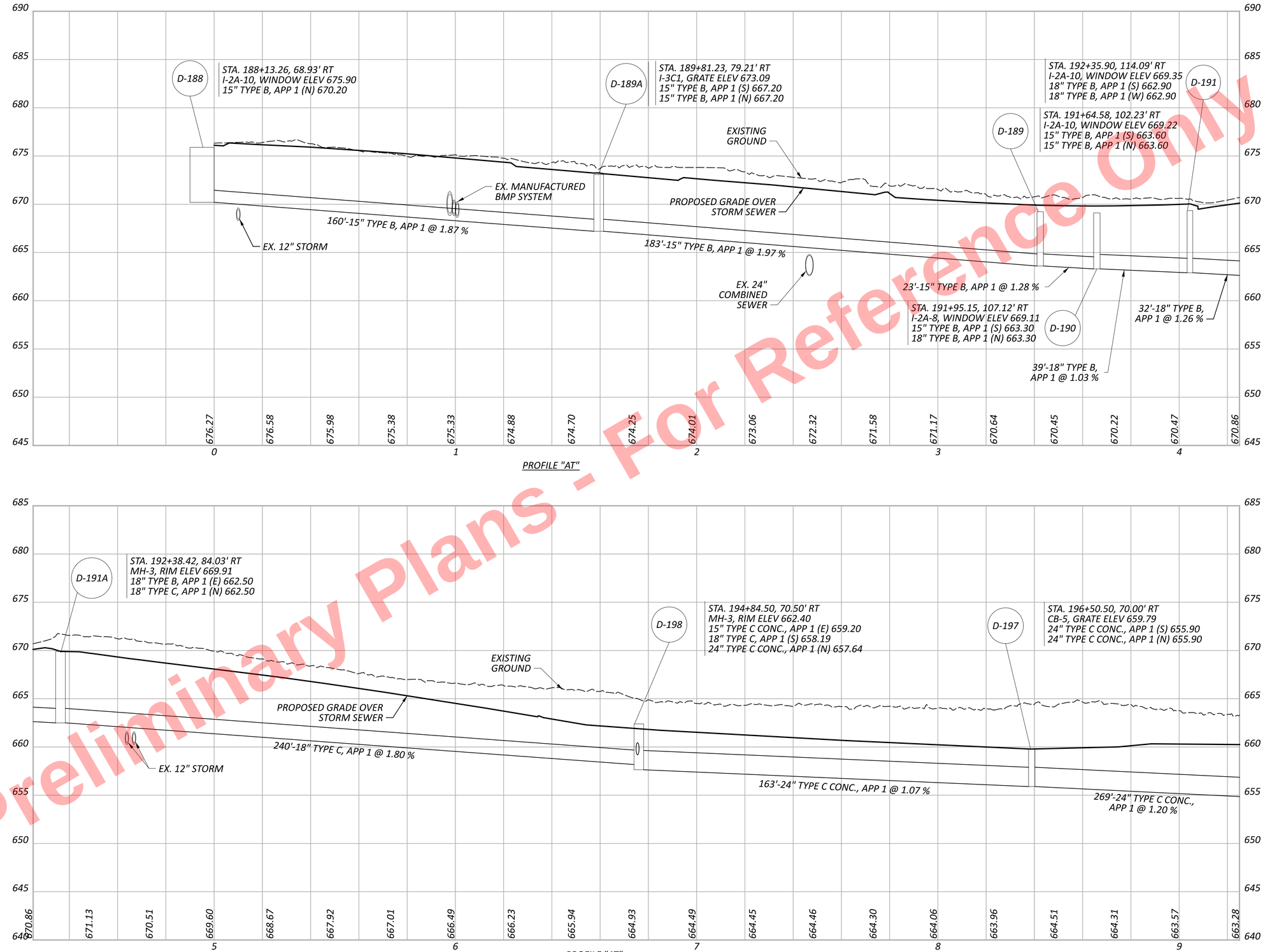
CUY-77-11.41 - PART 1

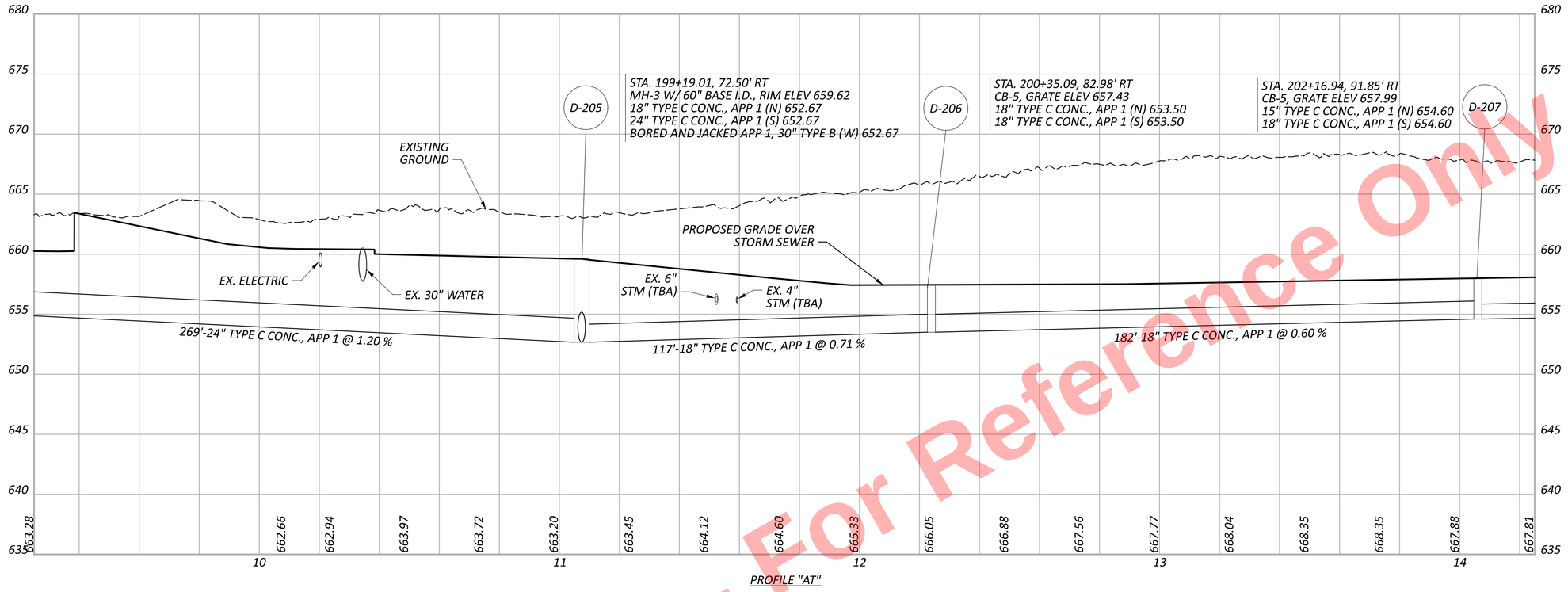


Preliminary Plans - For Reference Only

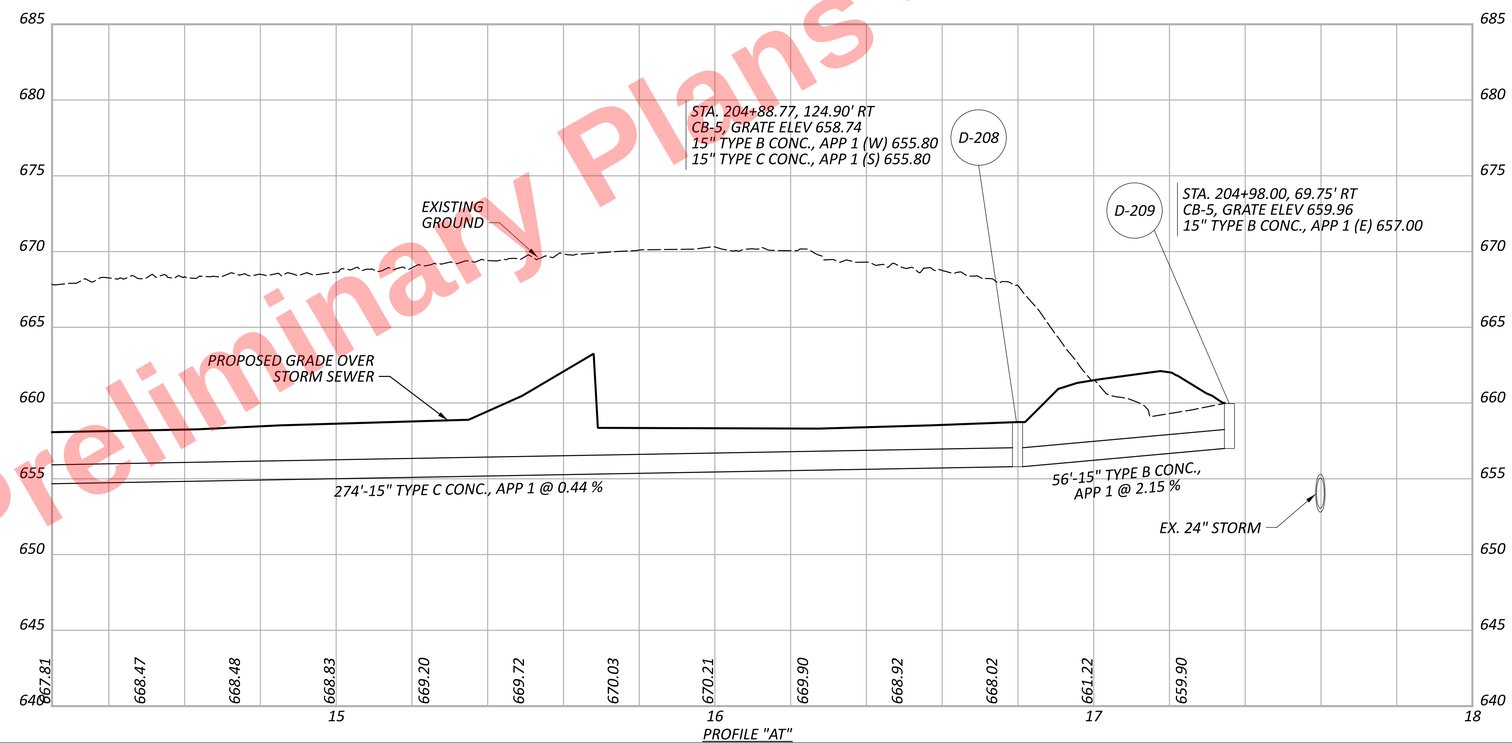
DRAINAGE PROFILES - I.R. 77
PROFILE "AT"

DESIGN AGENCY
AECOM

DESIGNER	SMS
REVIEWER	AKM 11/17/25
PROJECT ID	105743
SHEET	P.820
TOTAL	P.1269



PROFILE "AT"



PROFILE "AT"

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DF106.dgn

DRAINAGE PROFILES - I.R. 77
PROFILE "AT"

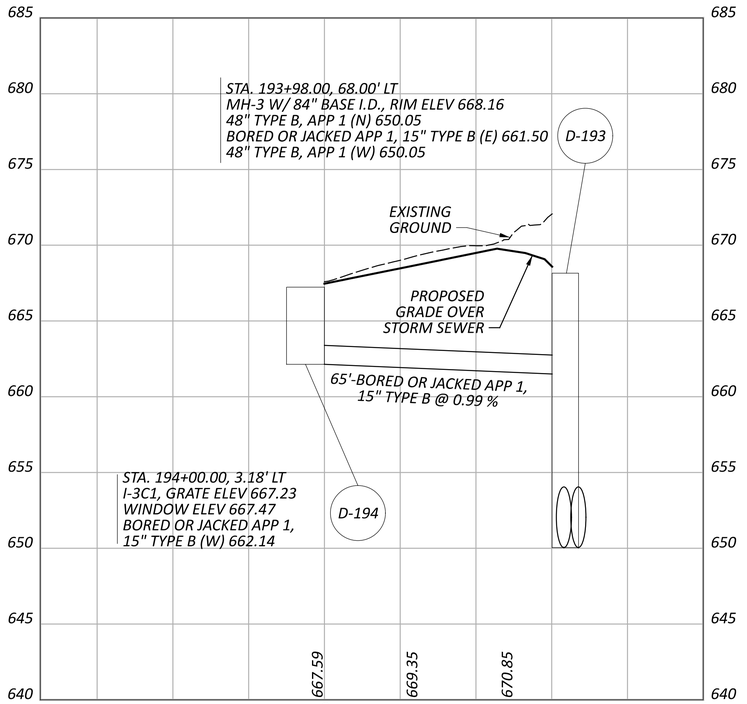
DESIGN AGENCY
AECOM

DESIGNER
SMS

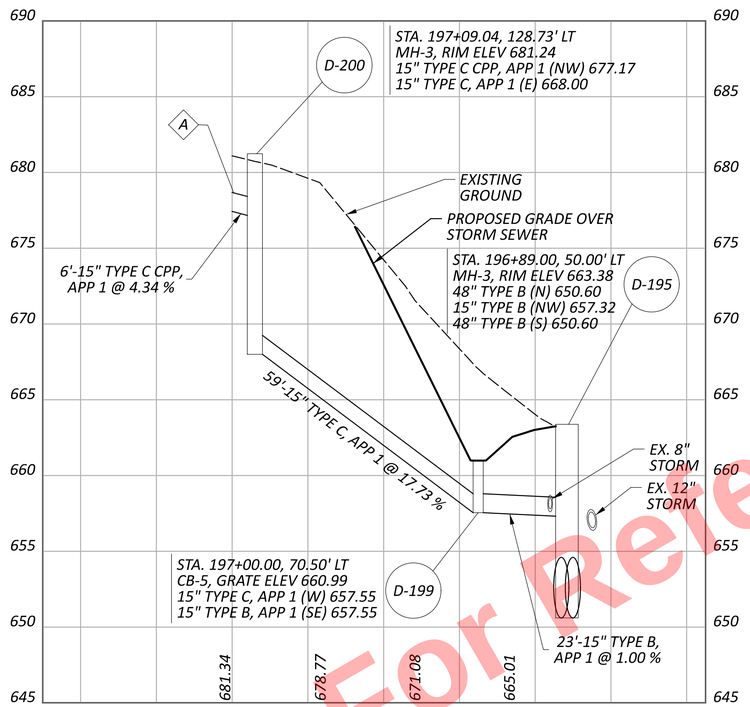
REVIEWER
AKM 11/17/25

PROJECT ID
105743

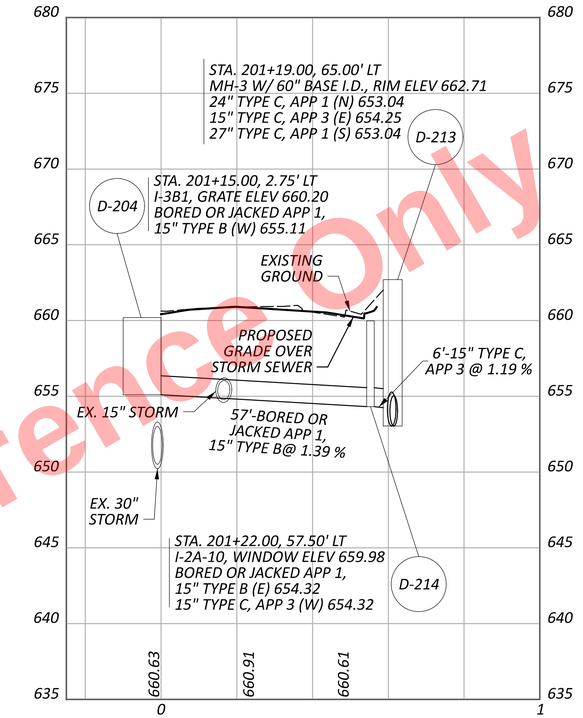
SHEET P.821 | TOTAL P.1269



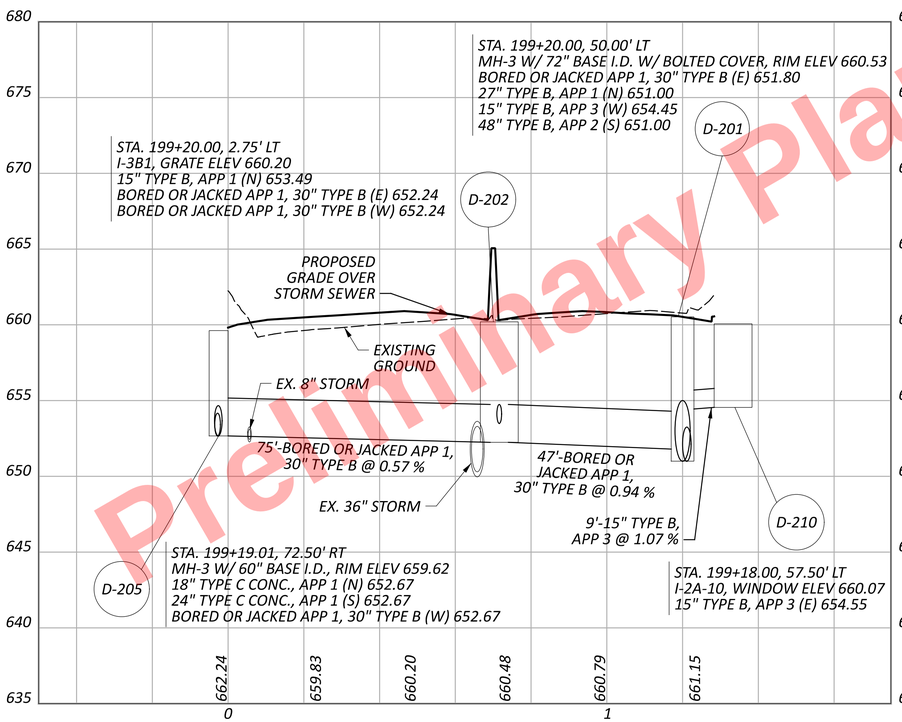
PROFILE "AU"



PROFILE "AV"



PROFILE "AZ"



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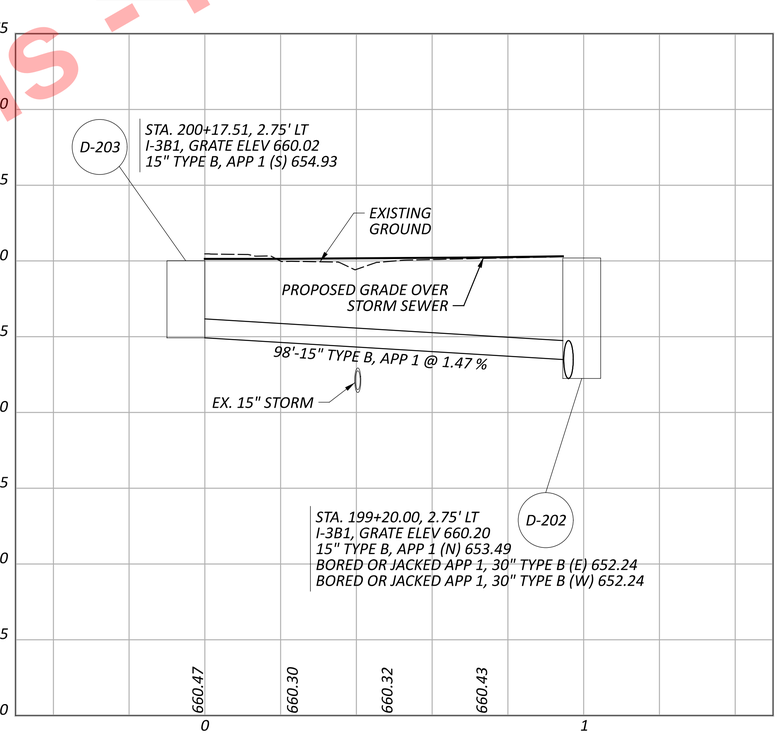
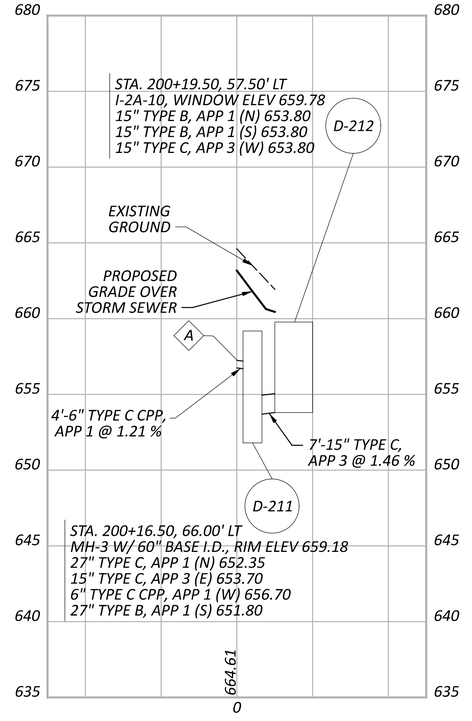


PROFILE "AX"



PROFILE "AY"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILES "AU", "AV", "AW", "AX", "AY", "AZ"

CUY-77-11.41 - PART 1

DESIGN AGENCY	AECOM
DESIGNER	SMS
REVIEWER	AKM 11/17/25
PROJECT ID	105743
SHEET	P.822
TOTAL	P.1269

MODEL: Sheet 8 - Profile AU - 2025 - Profile AU - 2025 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:02:14 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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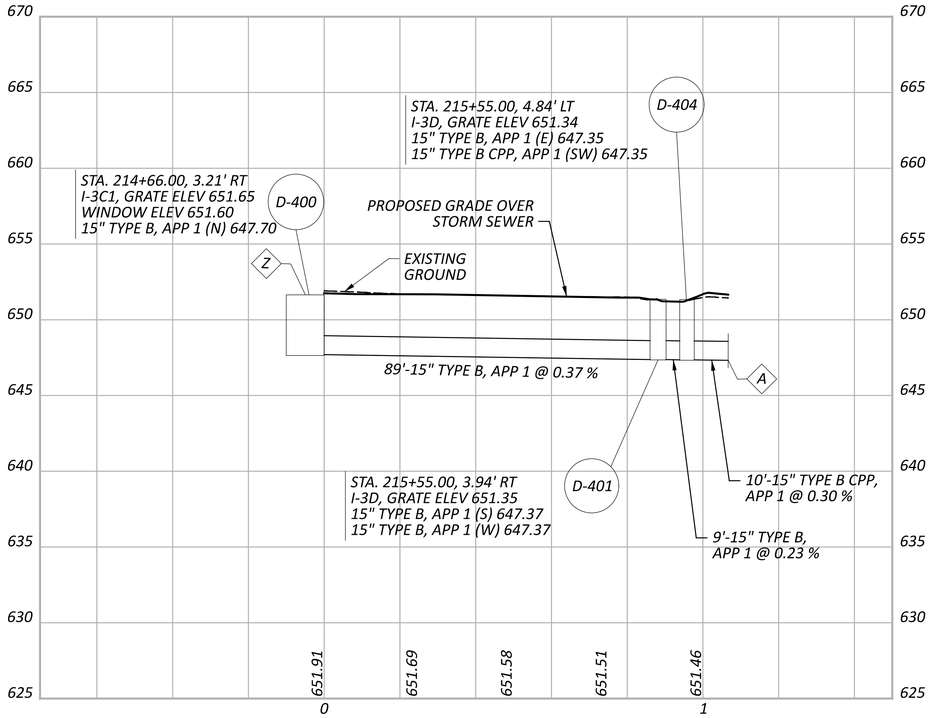
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DF107.dgn

CUY-77-11.41 - PART 1



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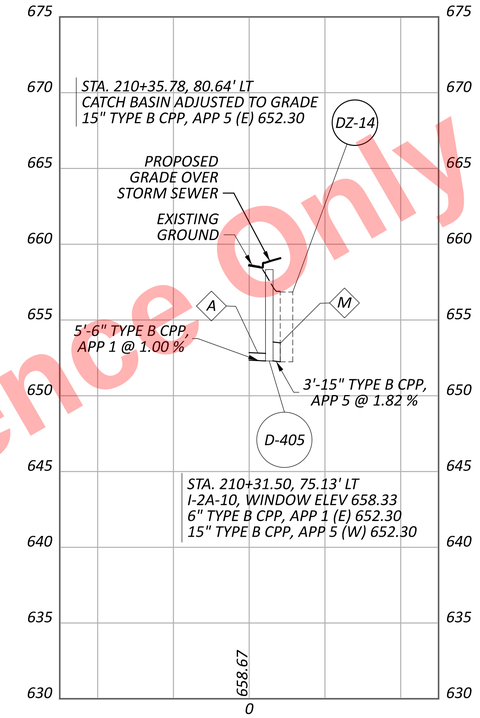
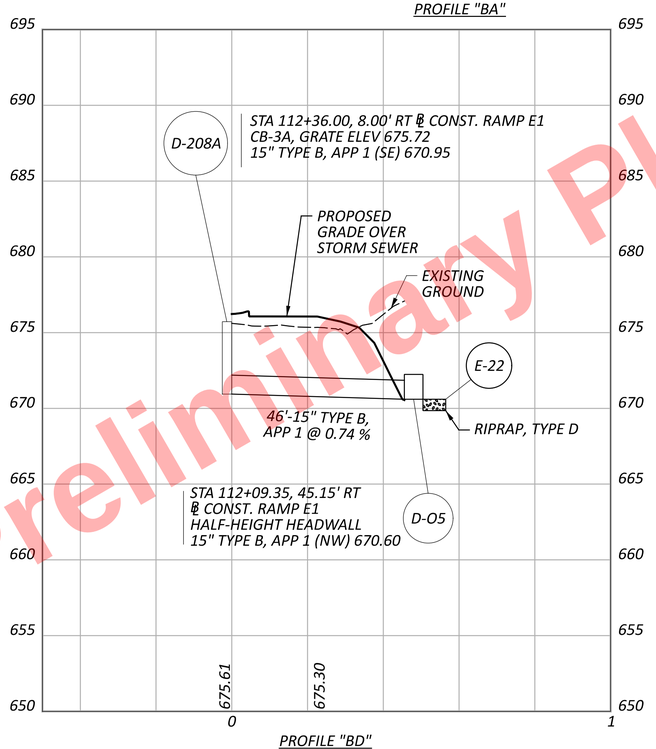
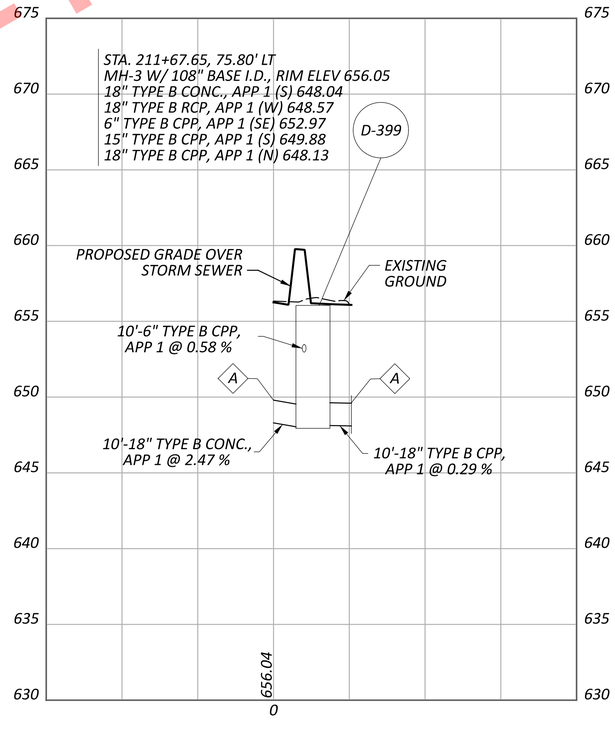


PROFILE "BI"



PROFILE "BD"



PROFILE "BH"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILES "BA", "BD", "BH", "BI"

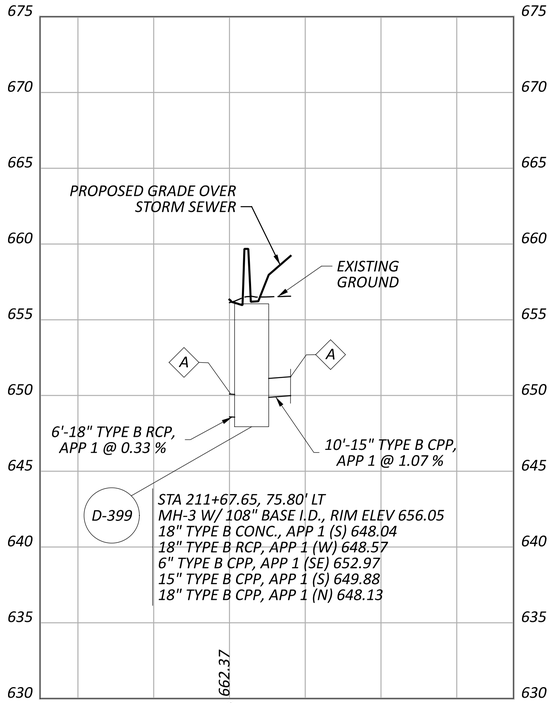
DESIGN AGENCY
AECOM

DESIGNER
SMS

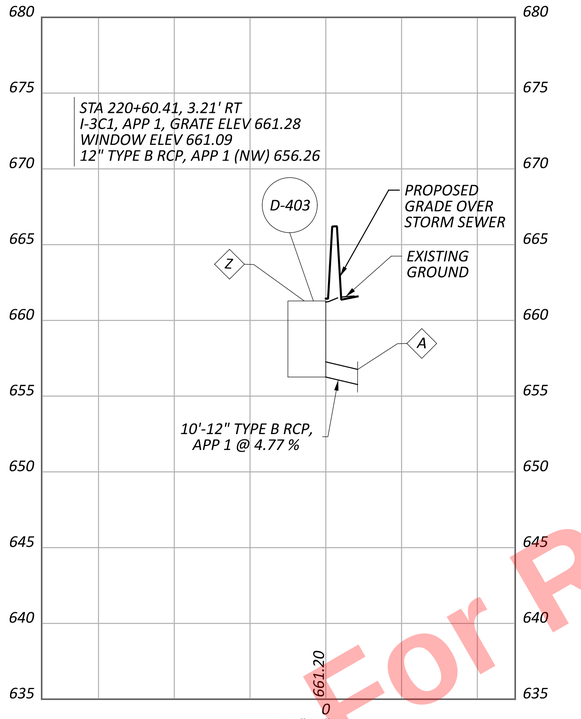
REVIEWER
AKM 05/01/26

PROJECT ID
105743

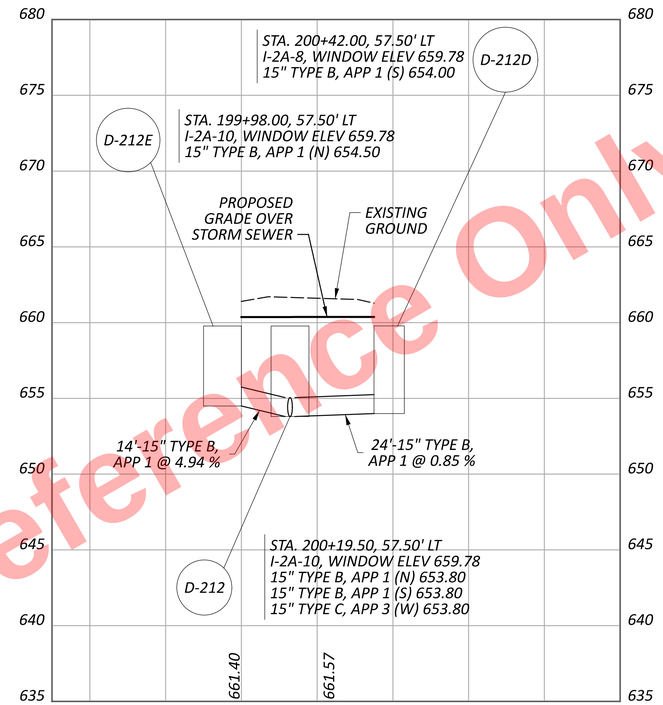
SHEET P.823 TOTAL P.1269



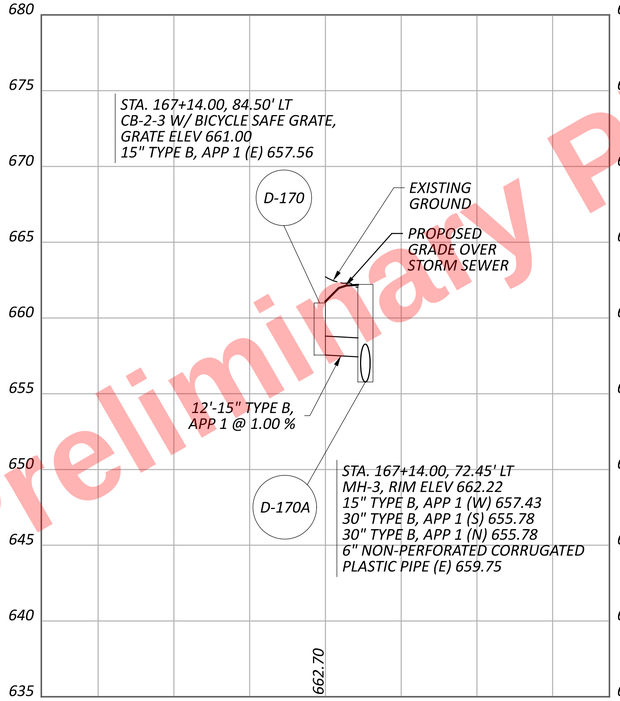
PROFILE "BJ"



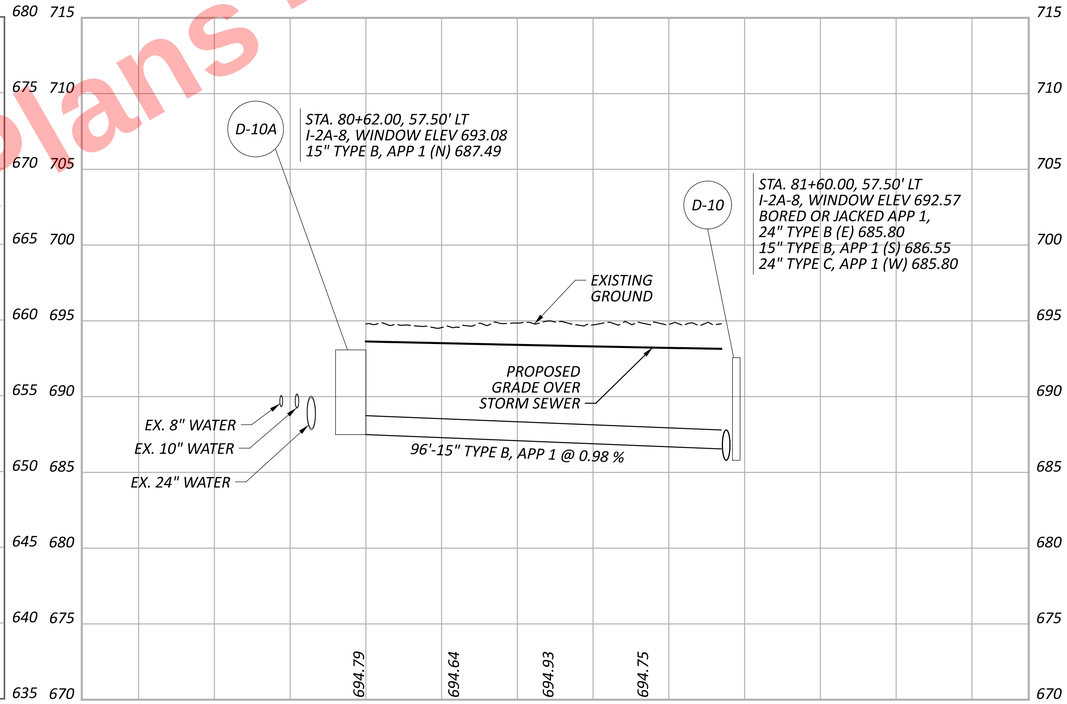
PROFILE "BK"



PROFILE "BP"



PROFILE "BM"



PROFILE "BC"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILES "BC", "BJ", "BK", "BM", "BP"

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.824 TOTAL P.1269

CUY-77-11.41 - PART 1

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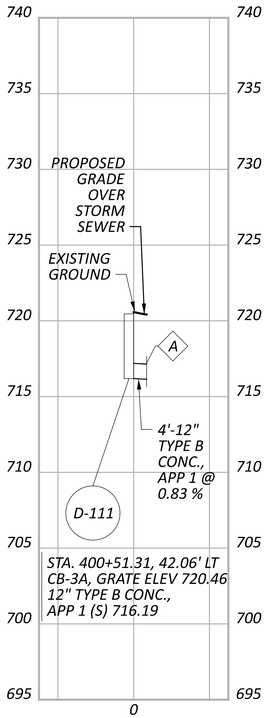
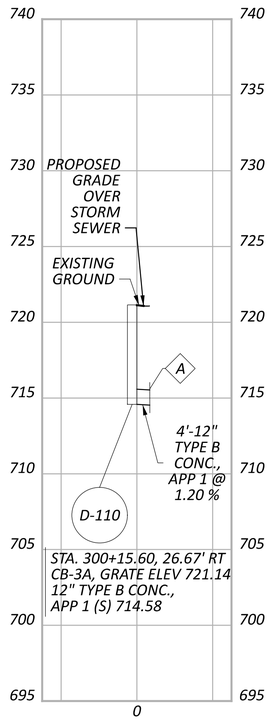
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DF107.dgn



PROFILE "BR"



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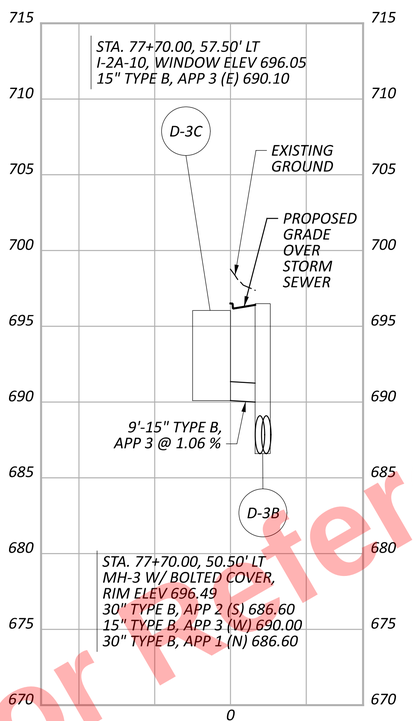
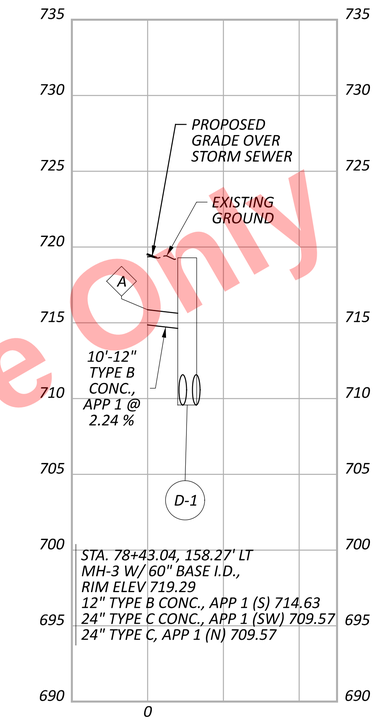
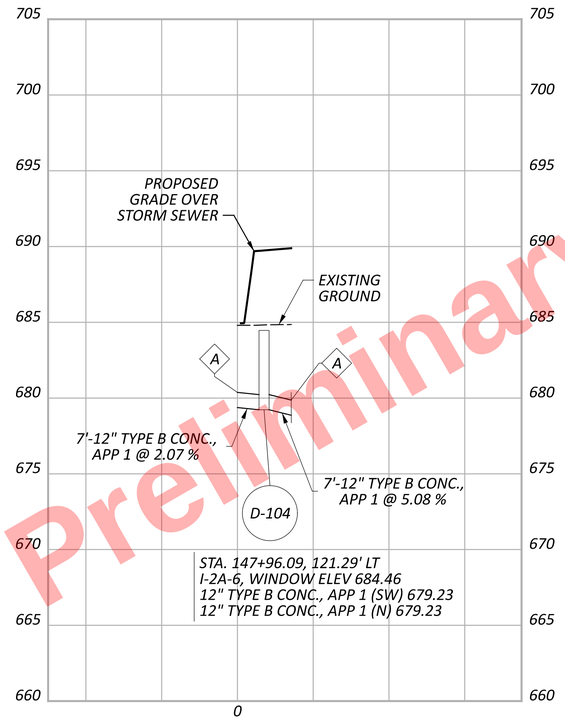


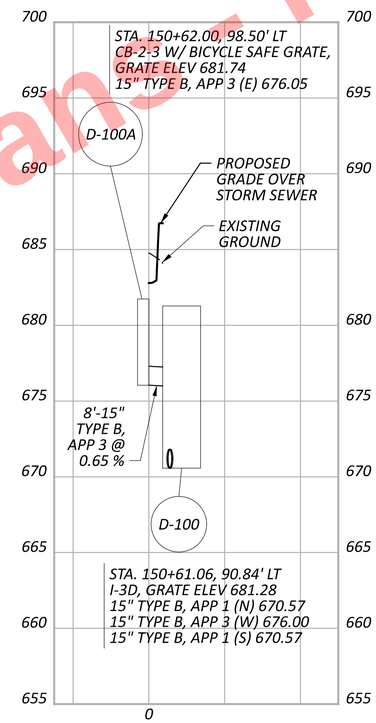
PROFILE "BT"



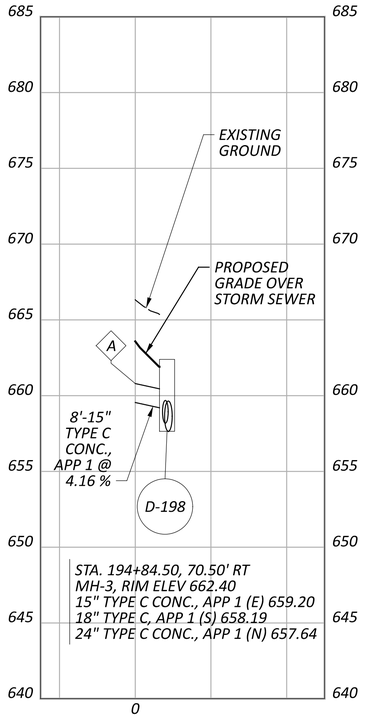
PROFILE "BU"



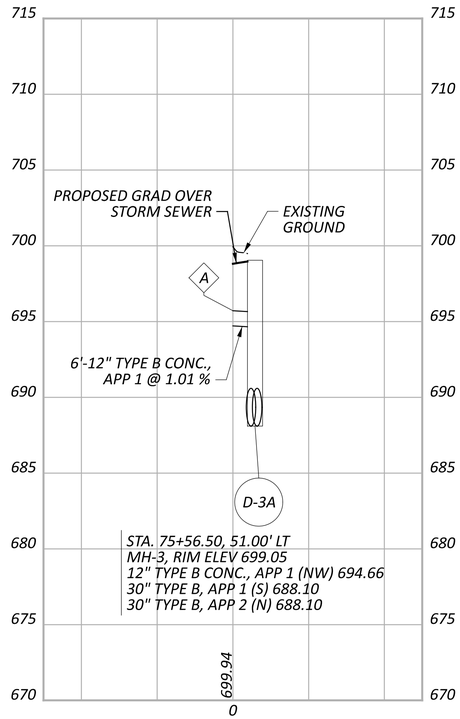
PROFILE "BX"



PROFILE "BY"



PROFILE "BZ"



PROFILE "BQ"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILES "BR", "BS", "BT", "BU", "BX", "BY", "BZ", "BQ"

CUY-77-11.41 - PART 1

MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:07:29 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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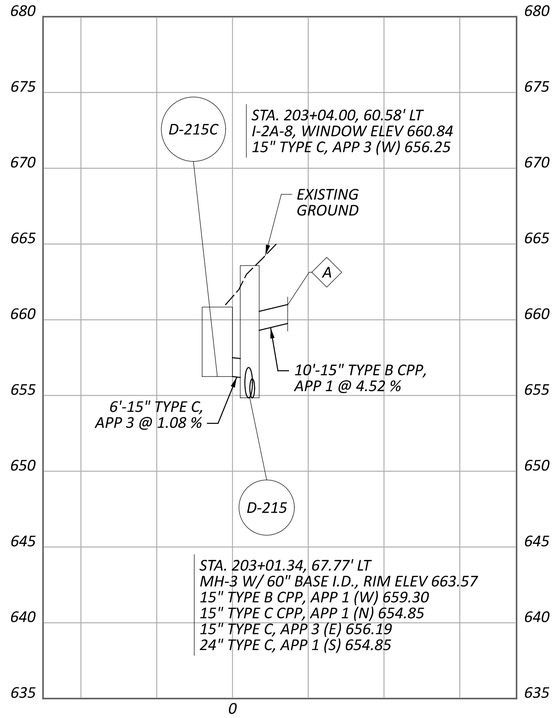
DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.825 TOTAL P.1269



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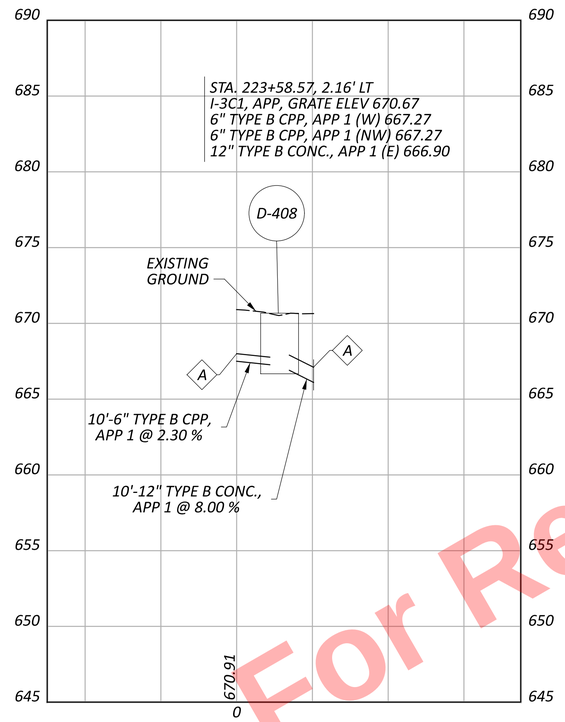

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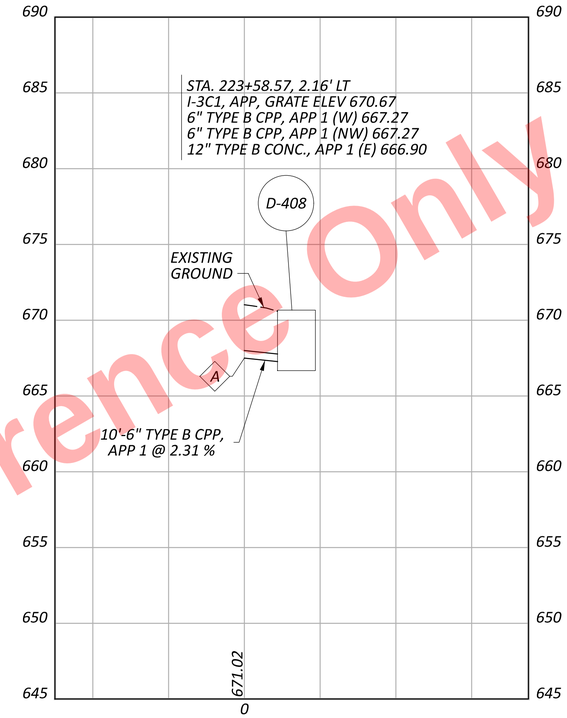
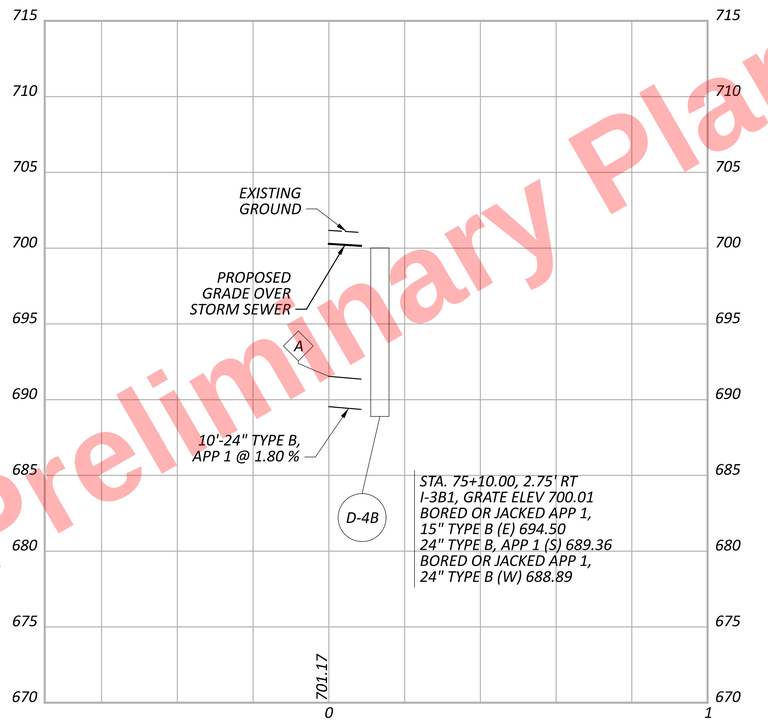


PROFILE "CC"



PROFILE "CD"

Preliminary Plans - For Reference Only

DRAINAGE PROFILES - I.R. 77
PROFILES "CA", "CB", "CC", "CD"

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.826 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:07:30 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DF109.dgn

CURVE DATA RAMP A3
P.I. = STA. 308+68.71
Δ = 17°04'02" LT
Dc = 03°25'00"
R = 1,676.95'
T = 251.63'
L = 499.53'
E = 18.77'

CURVE DATA WALL 1A
P.I. = STA. 2+13.53
Δ = 14°35'50" LT
Dc = 03°26'12"
R = 1,667.20'
T = 213.53'
L = 424.75'
E = 13.62'

CURVE DATA I.R. 77
P.I. = STA. 86+50.82
Δ = 32°47'59" LT
Dc = 01°30'00"
R = 3,819.72'
T = 1,124.19'
L = 2,186.64'
E = 162.00'

Ex Ex LA R/W
Ex LA
Ex LA R/W
Ex LA
Ex LA R/W
Ex LA
CONST. LIMITS
PROP. CURB INLET
EX. 15" CONCRETE STORM (TBA)
POC STA. 0+00.00
BEGIN WALL 1A
℄ CONST. I.R. 77 STA. 84+30.13, 92.77' LT
℄ WALL 1A STA. 0+24.75
PROP. CATCH BASIN
EX. STORM STRUCTURE (TBR)
EXISTING LIGHT POLE TO BE REMOVED (TYP.)
PROP. DRAINAGE DITCH
EX. STORM STRUCTURE (TBR)
PROP. GRADING LIMITS
℄ CONST. RAMP A3 AND E/P
PROP. UNLINED DRAINAGE DITCH
EX. BUILDING
EX. 12" STORM DRAIN TO REMAIN
POT WALL 1A STA. 4+24.75
℄ CONST. I.R. 77 STA. 88+37.31, 69.30' LT
POT STA. 311+16.62
POT STA. 311+29.78
END WALL 1A
℄ CONST. I.R. 77 STA. 89+38.73, 61.33' LT
℄ WALL 1A STA. 5+24.75
POT STA. 5+24.91
PROP. CATCH BASIN
N20°16'22"W
EX. ABUTMENT OF BRIDGE CUY-77-1169 (TO REMAIN)
PROP. 60" STORM SEWER
EX. BRIDGE DECK
307
308
309
310
311
4:1
16'-0"
12'-0"
36'-0"
11'-6"
℄ WALL 1A
PROP. STORM INLET
PROP. 54" STORM SEWER
B-041-0-20
X-004-1-18
B-004-0-18
B-042-0-20
PROP. 15" STORM SEWER
PROP. 12" STORM SEWER
PROP. MANHOLE
EX. STORM STRUCTURE (TBR)
PROP. TYPE D CONC. BARRIER
EX. 18" CONCRETE STORM (TO BE ABANDONED)
PROP. E/P
PROP. MANHOLE
EX. STORM STRUCTURE (TBA)
EX. OVERHEAD TRUSS
EX. 12" CONCRETE STORM (ABANDONED)
EX. 18" CONCRETE STORM (TBA)
PROP. 15" STORM SEWER
EX. CONCRETE STORM (TBA)
℄ CONST. I.R. 77
PROP. E/P
PROP. SHOULDER
EX. 42" CONCRETE STORM (TBA)
TYPE B1 CONC. BARRIER MEDIAN
85
86
87
88
89
EX. 42" CONCRETE STORM (TBA)
PROP. STORM INLET
EX. STORM INLET (TBA)

PLAN

LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION

NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASE 1B.

PROPOSED PAVEMENT ELEVATIONS AT TOE OF BARRIER
692.24 692.28 692.41 692.59 692.90 693.20 693.48 693.76 694.02 694.27 694.49 694.70 694.87 695.03 695.16 695.28 695.37 695.54 695.70 695.84 695.98

WALL 1A = 500.00' SOLDIER PILE RETAINING WALL
MEASURED ALONG FRONT FACE

BEGIN WALL 1A
℄ CONST. I.R. 77 STA. 84+30.13, 92.77' LT
℄ WALL 1A STA. 0+24.75
TOP OF WALL EL. 695.74

PROPOSED GRADE EL. 693.74
PROPOSED GRADE AT BACK OF WALL
PROPOSED GRADE AT TOE OF BARRIER
EXISTING GROUND AT BACK OF WALL
TOP OF WALL
WALL 1A STA. 4+24.75
TOP OF WALL EL. 711.05
PROPOSED GRADE EL. 710.05
END WALL 1A
℄ CONST. I.R. 77 STA. 89+38.73, 61.33' LT
℄ WALL 1A STA. 5+24.75
TOP OF WALL EL. 715.20
PROPOSED GRADE EL. 714.20
EX. ABUTMENT OF BRIDGE CUY-77-1169 TO REMAIN
EXISTING ABUTMENT BOTTOM OF FOOTING EL. 689.4 +/-

BOTTOM OF WALL 1A EL. 690.69
BOTTOM OF WALL 1A EL. 691.01
BOTTOM OF WALL 1A EL. 691.37
BOTTOM OF WALL 1A EL. 691.73
BOTTOM OF WALL 1A EL. 692.07
BOTTOM OF WALL 1A EL. 692.40
BOTTOM OF WALL 1A EL. 692.69
BOTTOM OF WALL 1A EL. 692.96
BOTTOM OF WALL 1A EL. 693.20
BOTTOM OF WALL 1A EL. 693.40
BOTTOM OF WALL 1A EL. 693.57
BOTTOM OF WALL 1A EL. 693.72
BOTTOM OF WALL 1A EL. 693.84
BOTTOM OF WALL 1A EL. 693.97
BOTTOM OF WALL 1A EL. 694.10
EX. 12" STORM DRAIN TO REMAIN INVERT EL. 692.4 +/-
BOTTOM OF WALL 1A EL. 694.28

ELEVATION

(STATIONING ALONG ℄ WALL 1A)

10 - 2'-0" DRILLED SHAFTS
16 - 2'-6" DRILLED SHAFTS
12 - 3'-0" DRILLED SHAFTS
30 - 3'-6" DRILLED SHAFTS

EXISTING GROUND ELEVATIONS AT BACK OF WALL
694.55 694.45 694.43 694.46 694.89 695.66 696.44 696.74 696.63 697.28 697.42 697.51 698.13 699.35 700.70 702.19 703.26 702.97 703.60 703.30

780 760 740 720 700 680 660 640 620 600

0 1 2 3 4 5

Preliminary Plans - For Reference Only

SITE PLAN
RETAINING WALL 1A

DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 1 TOTAL: 16
SHEET: P.827 TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet larger PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:26:54 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL01A\Sheets\105743_WALL01A_WP001.dgn

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 10TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

EPOXY COATED REINFORCING STEEL - MIN. YIELD STRENGTH 60 KSI

STEEL SOLDIER PILES - ASTM A572 - YIELD STRENGTH 50 KSI

ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W16x36
ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W21x48
ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W21x73
ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W24x94
ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W24x162
ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W33x169

THIS WORK CONSISTS OF FURNISHING AND PLACING STEEL SOLDIER PILES INTO DRILLED HOLES. FURNISH SOLDIER PILES CONSISTING OF STRUCTURAL STEEL MEMBERS THAT MEET THE PLAN REQUIREMENTS AND CONFORM TO ASTM A572, GRADE 50 IN ACCORDANCE WITH C&MS 711.01. DO NOT FIELD WELD OR SPLICE STEEL SOLDIER PILES.

THE DEPARTMENT WILL MEASURE SOLDIER PILES ALONG THE AXIS OF THE SOLDIER PILE FROM THE TOP OF WALL ELEVATION TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER. THE DEPARTMENT WILL PAY FOR SOLDIER PILES AT THE CONTRACT UNIT PRICE PER FOOT FOR ITEM 507, STEEL PILES, MISC.: SOLDIER PILES, W16x36, ITEM 507, STEEL PILES, MISC.: SOLDIER PILES, W21x48, ITEM 507, STEEL PILES, MISC.: SOLDIER PILES, W21x73, ITEM 507, STEEL PILES, MISC.: SOLDIER PILES, W24x94, ITEM 507, STEEL PILES, MISC.: SOLDIER PILES, W24x162, OR ITEM 507, STEEL PILES, MISC.: SOLDIER PILES, W33x169.

ITEM 512 - TYPE 2 WATERPROOFING, AS PER PLAN

PLACE WATERPROOFING MEMBRANE AT THE LOCATIONS OF THE PROPOSED JOINTS IN THE CONCRETE WALL FACING. PLACE THE WATERPROOFING MEMBRANE OVER THE PGD AND SECURELY ATTACH TO THE TIMBER LAGGING WITH SCREWS AND 1-INCH OUTER DIAMETER FENDER WASHERS. PLACE THE MEMBRANE SO THAT THE ADHESIVE SIDE FACES THE CAST-IN-PLACE CONCRETE. THE SURFACE PREPARATION DESCRIBED IN C&MS 512.08 IS NOT REQUIRED.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

ITEM 512 - SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION)

APPLY A PERMANENT GRAFFITI COATING QUALIFIED ACCORDING TO S1083 THAT IS COMPATIBLE WITH THE CONCRETE SEALER OVER WHICH IT IS APPLIED. APPLY THE GRAFFITI COATING IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.

ITEM 513 - WELDED STUD SHEAR CONNECTORS, AS PER PLAN

SOLDIER PILES WHICH REQUIRE HEADED STUDS ARE SHOWN IN THE TABLE ON SHEET 14/16. WELD HEADED STEEL STUDS TO THE FLANGES OF THE SOLDIER PILE IN ORDER TO CONNECT THE CAST-IN-PLACE CONCRETE WALL FACING TO THE SOLDIER PILE. ATTACH HEADED STUDS ACCORDING TO C&MS 513.22 AND AS SHOWN IN THE PLANS. THE CONTRACTOR MAY ATTACH THE STUDS EITHER BEFORE PLACING THE SOLDIER PILE IN THE DRILLED HOLE OR AFTER EXCAVATING IN FRONT OF THE WALL. PROTECT THE HEADED STUDS FROM DAMAGE UNTIL THE CONCRETE WALL FACING IS POURED. REPAIR OR REPLACE DAMAGED HEADED STUDS AT NO EXPENSE TO THE DEPARTMENT.

ITEM 524 - DRILLED SHAFT, 24" DIAMETER ABOVE BEDROCK, AS PER PLAN
ITEM 524 - DRILLED SHAFT, 30" DIAMETER ABOVE BEDROCK, AS PER PLAN
ITEM 524 - DRILLED SHAFT, 36" DIAMETER ABOVE BEDROCK, AS PER PLAN
ITEM 524 - DRILLED SHAFT, 42" DIAMETER ABOVE BEDROCK, AS PER PLAN

THIS WORK CONSISTS OF FURNISHING AND INSTALLING DRILLED SHAFTS FOR SOLDIER PILE AND LAGGING WALLS. THE DRILLED SHAFTS ARE REINFORCED WITH SOLDIER PILES INSTEAD OF REINFORCING STEEL CAGES. THE SOLDIER PILES EXTEND ABOVE THE TOP OF THE DRILLED SHAFT. FURNISH AND INSTALL THE DRILLED SHAFTS ACCORDING TO C&MS 524 EXCEPT AS MODIFIED AND SUPPLEMENTED BELOW.

EXCAVATE THE HOLE FOR THE DRILLED SHAFT WITHIN 3 INCHES OF THE PLAN LOCATION. PLACE THE SOLDIER PILE WITHIN THE HOLE SO IT IS VERTICAL AND NOT INCLINED MORE THAN 1 INCH BETWEEN TOP AND BOTTOM. PLACE THE SOLDIER PILE SO THAT THE FLANGES ARE PARALLEL TO THE CENTERLINE OF THE ROW OF DRILLED SHAFTS. DO NOT ALLOW THE ORIENTATION OF THE FLANGES TO VARY BY MORE THAN 10 DEGREES. SUPPORT THE SOLDIER PILE SO THAT IT DOES NOT MOVE DURING CONCRETE PLACEMENT.

USE CLASS QC1 CONCRETE ACCORDING TO C&MS 511. PLACE CONCRETE TO THE ELEVATION FOR THE TOP OF THE DRILLED SHAFT. THE CONTRACTOR MAY PLACE CONCRETE USING THE FREE FALL METHOD PROVIDED THE DEPTH OF WATER IS LESS THAN 6 INCHES AND THE CONCRETE FALLS WITHOUT STRIKING THE SIDES OF THE HOLE. POURING CONCRETE ALONG THE WEB OF THE SOLDIER PILE IS ACCEPTABLE.

CHECK THE POSITION, THE VERTICAL ALIGNMENT AND ORIENTATION OF THE SOLDIER PILE IMMEDIATELY AFTER CONCRETE PLACEMENT. MAKE CORRECTIONS AS NECESSARY TO MEET THE ABOVE TOLERANCES.

FILL THE HOLE ABOVE THE BOTTOM OF THE LAGGING TO THE EXISTING GROUND SURFACE WITH ITEM 613 LOW STRENGTH MORTAR BACKFILL (LSM).

REMOVE CONCRETE AND LSM AS NECESSARY FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE THE LAGGING. PLACE THE LAGGING SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING. WAIT AT LEAST 12 HOURS AFTER PLACING CONCRETE IN THE DRILLED SHAFTS BEFORE PLACING LAGGING.

SEQUENCE OF INSTALLATION: INSTALL THE DRILLED SHAFTS IN A SEQUENCE SUCH THAT NO DRILLED SHAFT IS INSTALLED ADJACENT TO EITHER AN OPEN DRILLED SHAFT EXCAVATION OR A DRILLED SHAFT IN WHICH THE CONCRETE HAS LESS THAN A 48 HOUR CURE. INSTALLING THE SHAFTS IN AN ALTERNATING SEQUENCE OR ANY OTHER SEQUENCE THAT MEETS THIS CRITERIA IS PERMISSIBLE.

PROTECTION OF UNATTENDED OPEN SHAFTS: COVER UNATTENDED OPEN SHAFTS. USE TEMPORARY COVERS OF ADEQUATE STRENGTH TO PREVENT A PERSON OR ANIMAL FROM FALLING IN. LEAVE NO DRILLED SHAFT EXCAVATION UN-POURED OVERNIGHT.

THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHOD USED TO CONSTRUCT THE DRILLED SHAFTS AND PLACE LAGGING. ANY TEMPORARY GRADING, EXCAVATION, EMBANKMENT, AGGREGATE, DRAINAGE, SHEETING, ETC. NEEDED TO COMPLETE THE WORK IS INCLUDED IN THE BID PRICE FOR THE DRILLED SHAFTS. THE COST OF ANY EXCAVATION AND SUBSEQUENT REPLACEMENT OF EMBANKMENT (PER ITEM 203 EMBANKMENT) IS INCLUDED IN THE VARIOUS BID ITEMS FOR THE DRILLED SHAFTS AND LAGGING, UNLESS SEPARATELY ITEMIZED. NO SEPARATE PAYMENT WILL BE MADE.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE DRILLED SHAFTS ABOVE BEDROCK, AS PER PLAN, ALONG THE AXIS OF THE DRILLED SHAFT FROM THE EXISTING GROUND SURFACE TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER.

PAYMENT IS FULL COMPENSATION FOR CONSTRUCTING THE DRILLED SHAFTS, INCLUDING FURNISHING AND PLACING CONCRETE AND LSM, AND REMOVAL OF CONCRETE OR LSM FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE LAGGING.

ITEM SPECIAL - RETAINING WALL, TIMBER LAGGING

THIS WORK CONSISTS OF FURNISHING AND PLACING TIMBER LAGGING BETWEEN THE SOLDIER PILES AS TEMPORARY SUPPORT FOR THE RETAINED SOIL. FURNISH TIMBER LAGGING CONSISTING OF CONSTRUCTION GRADE, UNTREATED HARDWOOD WITH A MINIMUM THICKNESS OF 3 INCHES. TO PERMIT DRAINAGE, PROVIDE 1/4 TO 1/2-INCH SPACES BETWEEN LAGGING BOARDS USING 3/8-INCH THICK SPACER BLOCKS OR OTHER MEANS ACCEPTABLE TO THE ENGINEER. PLACE THE LAGGING BOARDS BETWEEN THE FLANGES OF THE SOLDIER PILES AND BEARING AGAINST THE FLANGES ON THE EXPOSED SIDE OF THE WALL SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING BOARDS. PERFORM EXCAVATION FOR PLACEMENT OF THE LAGGING IN SUCH A MANNER THAT THE LAGGING IS TIGHT AGAINST THE EXCAVATION CUT FACE. BACKFILL ANY VOIDS BEHIND THE LAGGING WITH A SUITABLE COMPACTED GRANULAR MATERIAL CONFORMING TO C&MS 703.16.C, ACCEPTABLE TO THE ENGINEER. THE COST OF ANY SUCH BACKFILLING REQUIRED, INCLUDING MATERIAL, PLACEMENT AND COMPACTION, IS INCIDENTAL TO THE COST OF LAGGING.

THE DEPARTMENT WILL PAY FOR TIMBER LAGGING AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR ITEM SPECIAL, RETAINING WALL, TIMBER LAGGING.

ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

℄ - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

Preliminary Plans - For Reference Only

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 2 | TOTAL 16

SHEET P.828 | TOTAL P.1269

CUY-77-11.41 - PART 1

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ESTIMATED QUANTITIES (WALL 1A)

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
503	21101	126	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN	13
507	00400	274	FT	STEEL PILES, MISC.: SOLDIER PILES, W16x36	2
507	00400	236	FT	STEEL PILES, MISC.: SOLDIER PILES, W21x48	2
507	00400	256	FT	STEEL PILES, MISC.: SOLDIER PILES, W24x73	2
507	00400	409	FT	STEEL PILES, MISC.: SOLDIER PILES, W24x94	2
507	00400	879	FT	STEEL PILES, MISC.: SOLDIER PILES, W24x162	2
507	00400	375	FT	STEEL PILES, MISC.: SOLDIER PILES, W33X169	2
509	10000	30432	LB	EPOXY COATED STEEL REINFORCEMENT	
511	46013	268	CY	CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN	15
512	10001	584	SY	SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION)	2
512	10101	584	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	2
512	33001	62	SY	TYPE 2 WATERPROOFING, AS PER PLAN	2
513	20001	1400	EACH	WELDED STUD SHEAR CONNECTORS, AS PER PLAN	2
516	13600	1839	SF	1" PREFORMED EXPANSION JOINT FILLER	
516	13900	23	SF	2" PREFORMED EXPANSION JOINT FILLER	
518	20000	519	SY	PREFABRICATED GEOCOMPOSITE DRAIN	
518	21200	19	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
524	94503	200	FT	DRILLED SHAFTS, 24" DIAMETER, ABOVE BEDROCK, AS PER PLAN	2
524	94603	328	FT	DRILLED SHAFTS, 30" DIAMETER, ABOVE BEDROCK, AS PER PLAN	2
524	94703	252	FT	DRILLED SHAFTS, 36" DIAMETER, ABOVE BEDROCK, AS PER PLAN	2
524	94803	712	FT	DRILLED SHAFTS, 42" DIAMETER, ABOVE BEDROCK, AS PER PLAN	2
SPECIAL	53051020	3238	SF	RETAINING WALL, TIMBER LAGGING	2

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ESTIMATED QUANTITIES
RETAINING WALL 1A

DESIGN AGENCY
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PROJECT ID
105743

SUBSET 3 | TOTAL 16

SHEET P.829 | TOTAL P.1269

CUY-77-11.41 - PART 1

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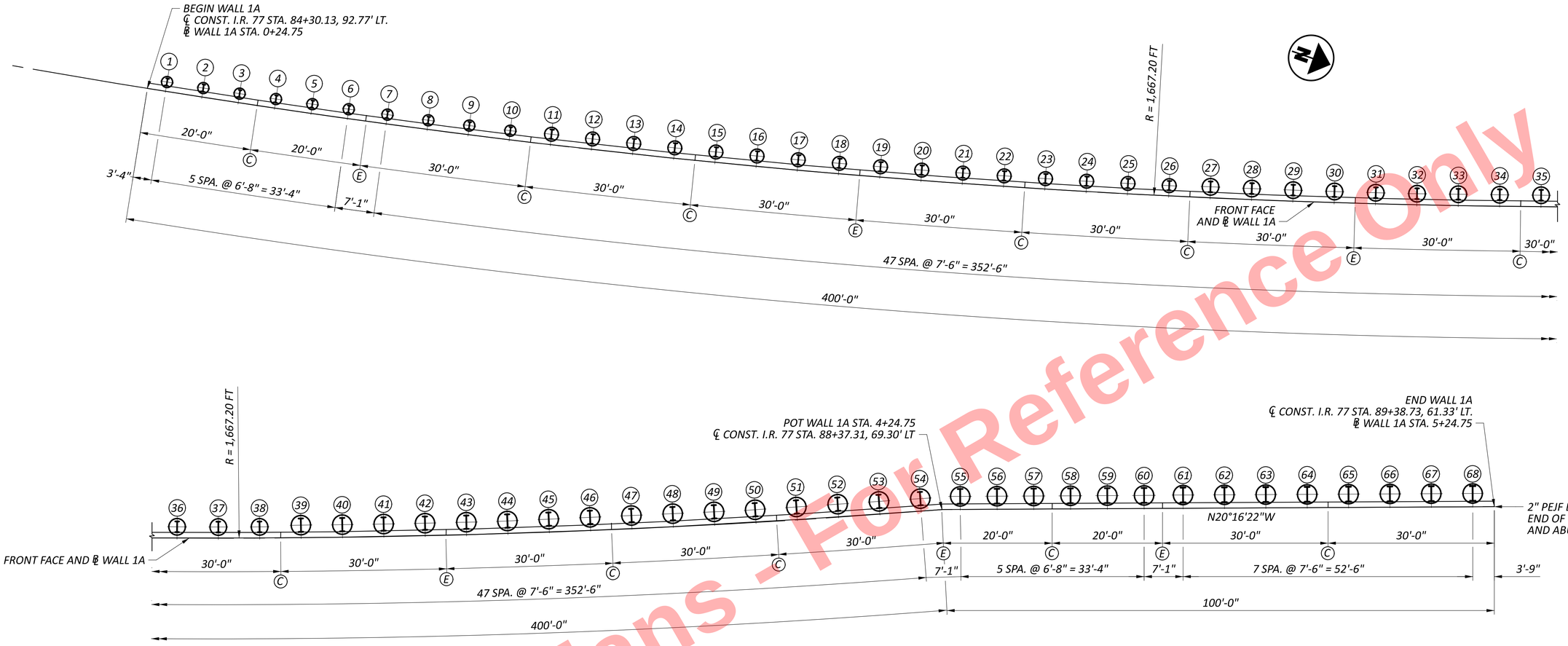
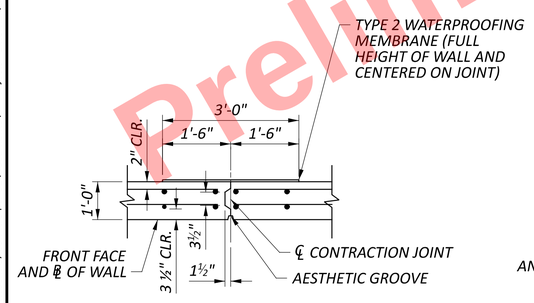
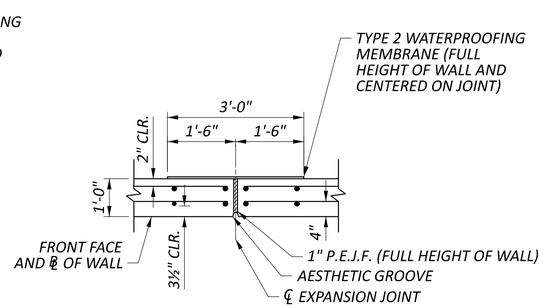


GENERAL PLAN

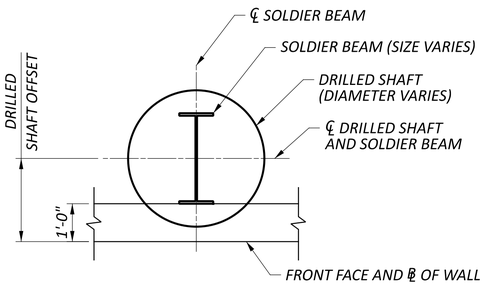
(DIMENSIONS ARE MEASURED ALONG FRONT FACE OF WALL)



CONTRACTION JOINT DETAIL



EXPANSION JOINT DETAIL



DRILLED SHAFT LOCATION DETAIL

LEGEND:

- Ⓘ - DENOTES DRILLED SHAFT WITH SOLDIER BEAM.
- (#) - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

NOTE:

1. FOR WALL ELEVATION VIEW, SEE SHEET 5/16 THRU 12/16.
2. FOR SIZES AND OFFSET DIMENSIONS OF DRILLED SHAFTS AND SOLDIER BEAMS, SEE SHEET 14/16.
3. FOR AESTHETIC GROOVE DETAILS, SEE SHEET 15/16.

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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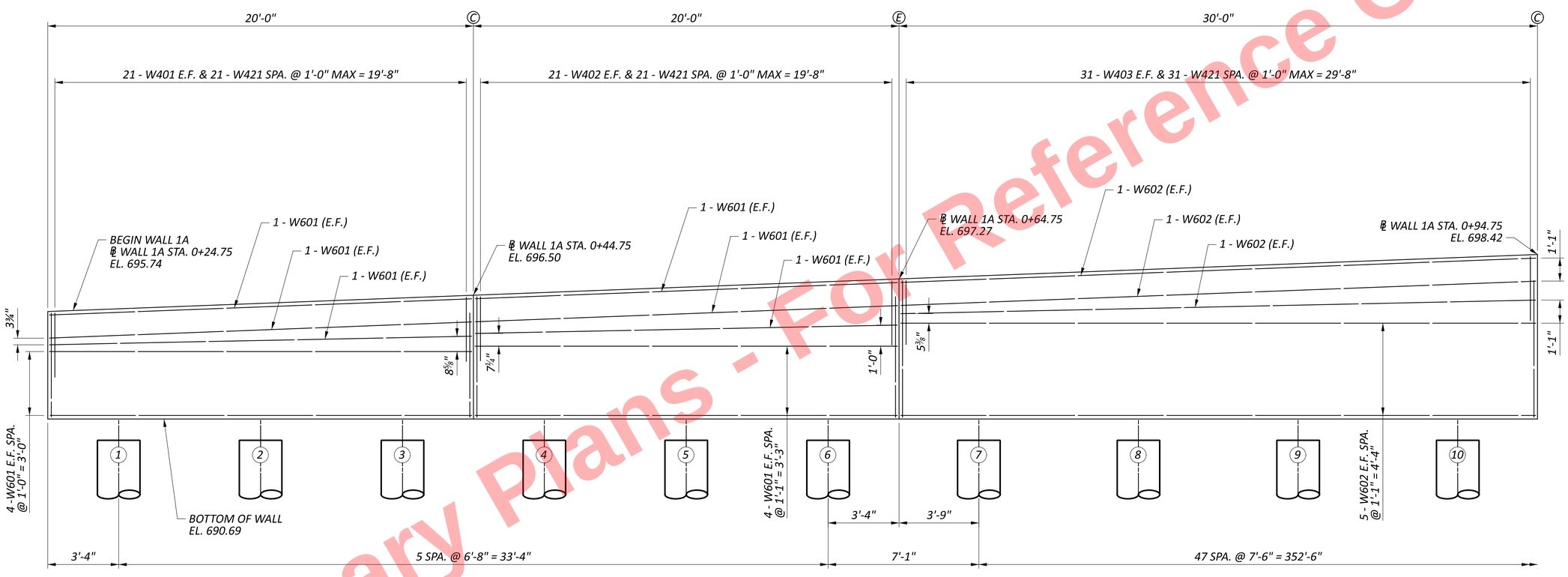
PILE LAYOUT AND GEOMETRY SCHEMATIC
RETAINING WALL 1A

DESIGN AGENCY	TRC
DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	4
TOTAL	16
SHEET	P.830
TOTAL	P.1269



PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- Ⓝ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/16.

Preliminary Plans - For Reference Only

WALL ELEVATION
RETAINING WALL 1A

DESIGN AGENCY
TRC

DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 5 | TOTAL 16
SHEET P.831 | TOTAL P.1269

CUY-77-11.41 - PART 1

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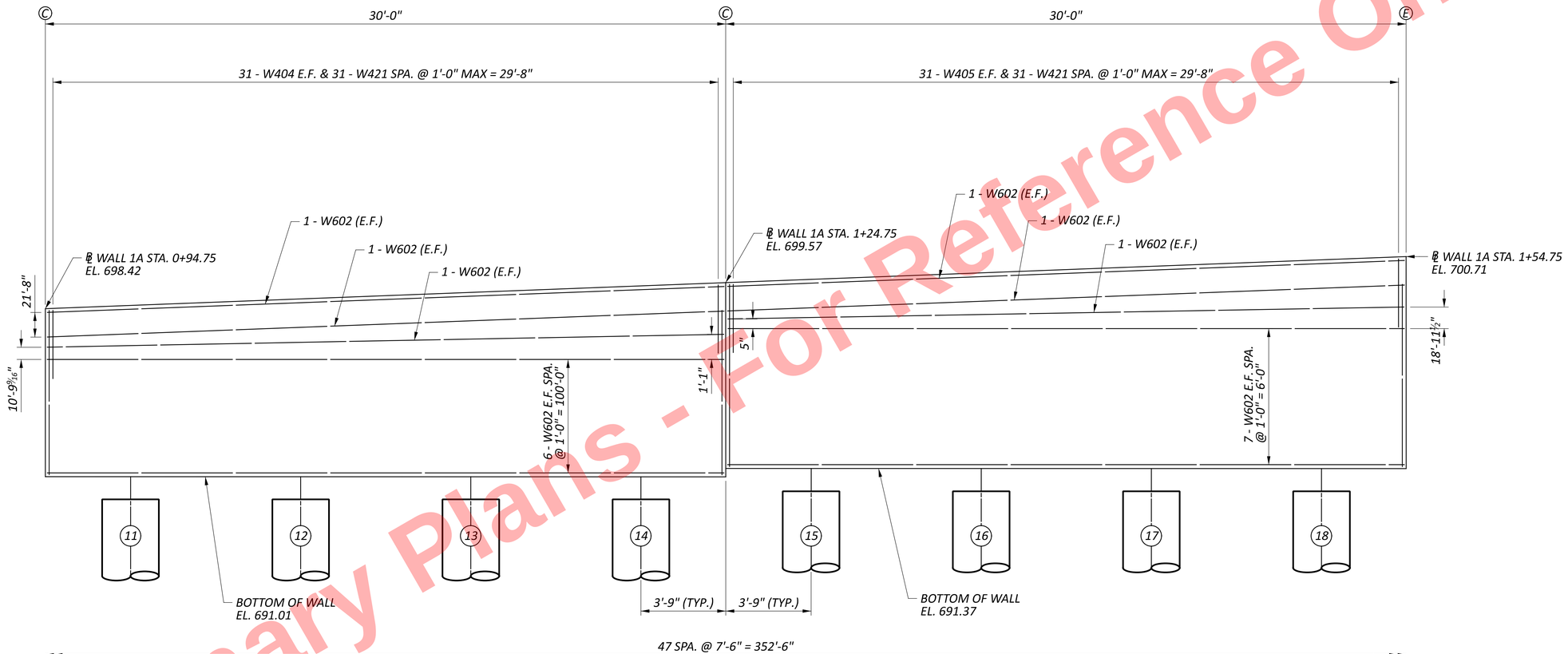

PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- ⓗ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/16.

WALL ELEVATION
RETAINING WALL 1A

DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET / TOTAL	6 / 16
SHEET / TOTAL	P.832 / P.1269

CUY-77-11.41 - PART 1

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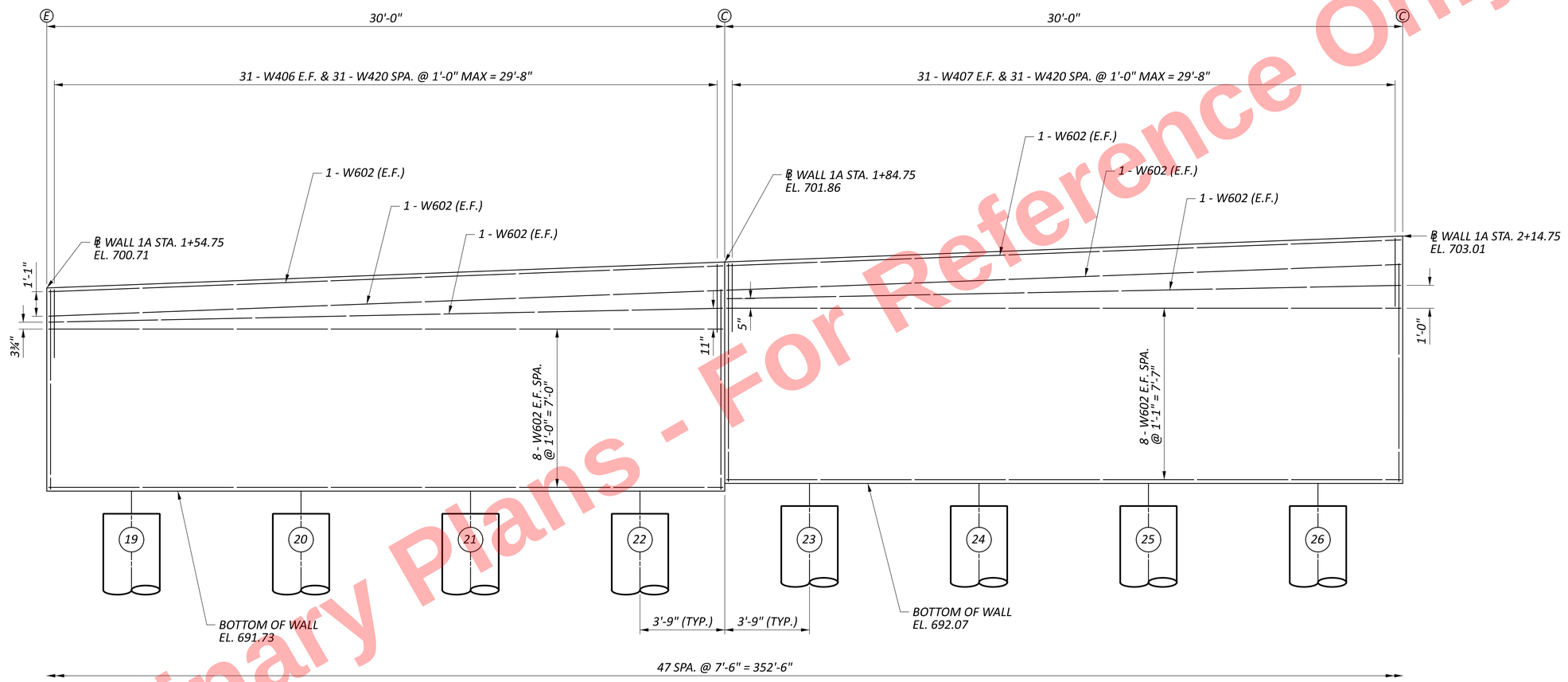


PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- Ⓝ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/16.

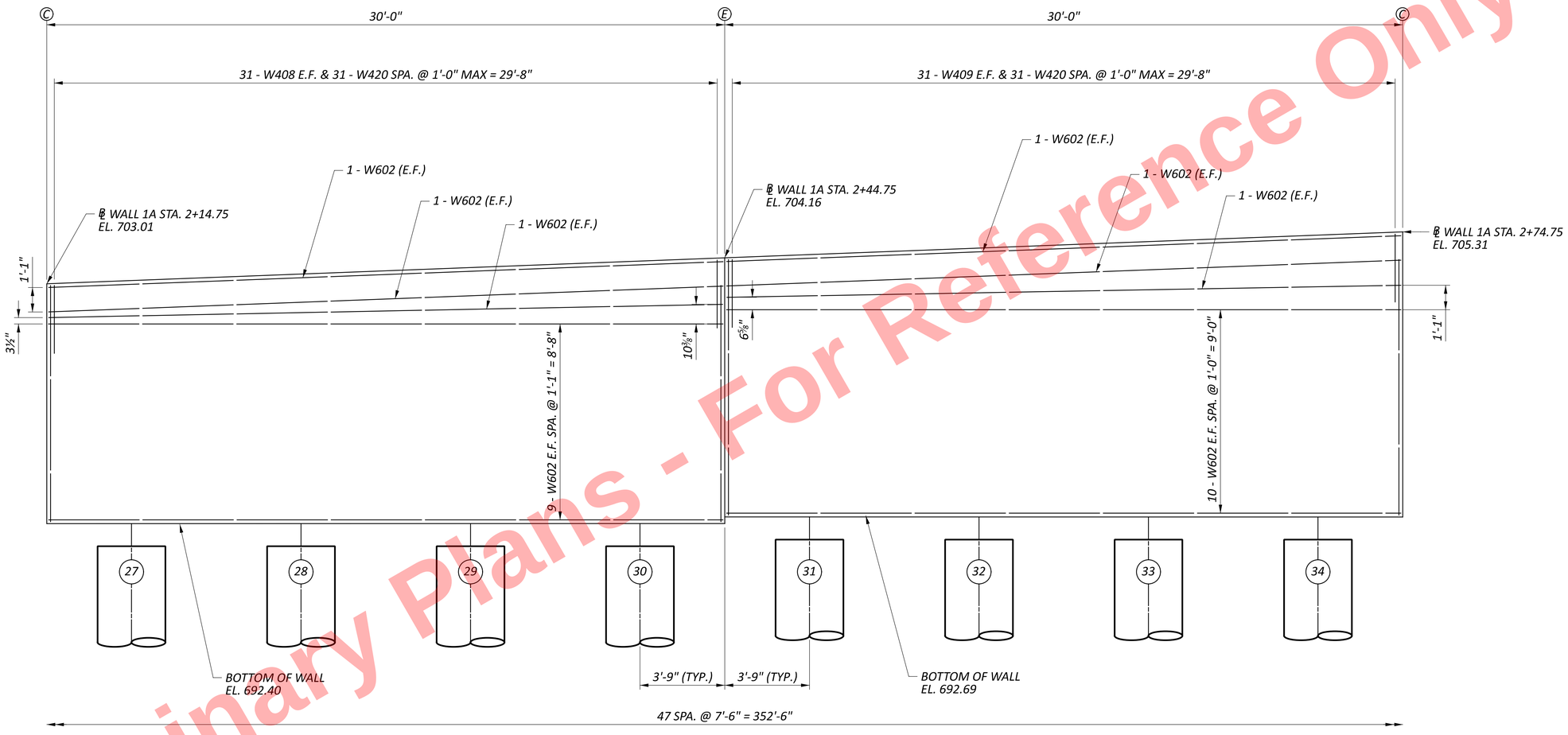
Preliminary Plans - For Reference Only

WALL ELEVATION
RETAINING WALL 1A

DESIGN AGENCY
TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	7
TOTAL	16
SHEET	P.833
TOTAL	P.1269

Preliminary Plans - For Reference Only



PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- Ⓝ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/16.

WALL ELEVATION
RETAINING WALL 1A

CUY-77-11.41 - PART 1

MODEL: Sheet 4 - Panels 8-9 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:28:02 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	8
TOTAL	16
SHEET	P.834
TOTAL	P.1269

MODEL: Sheet 5 - Panels 10-11 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:28:09 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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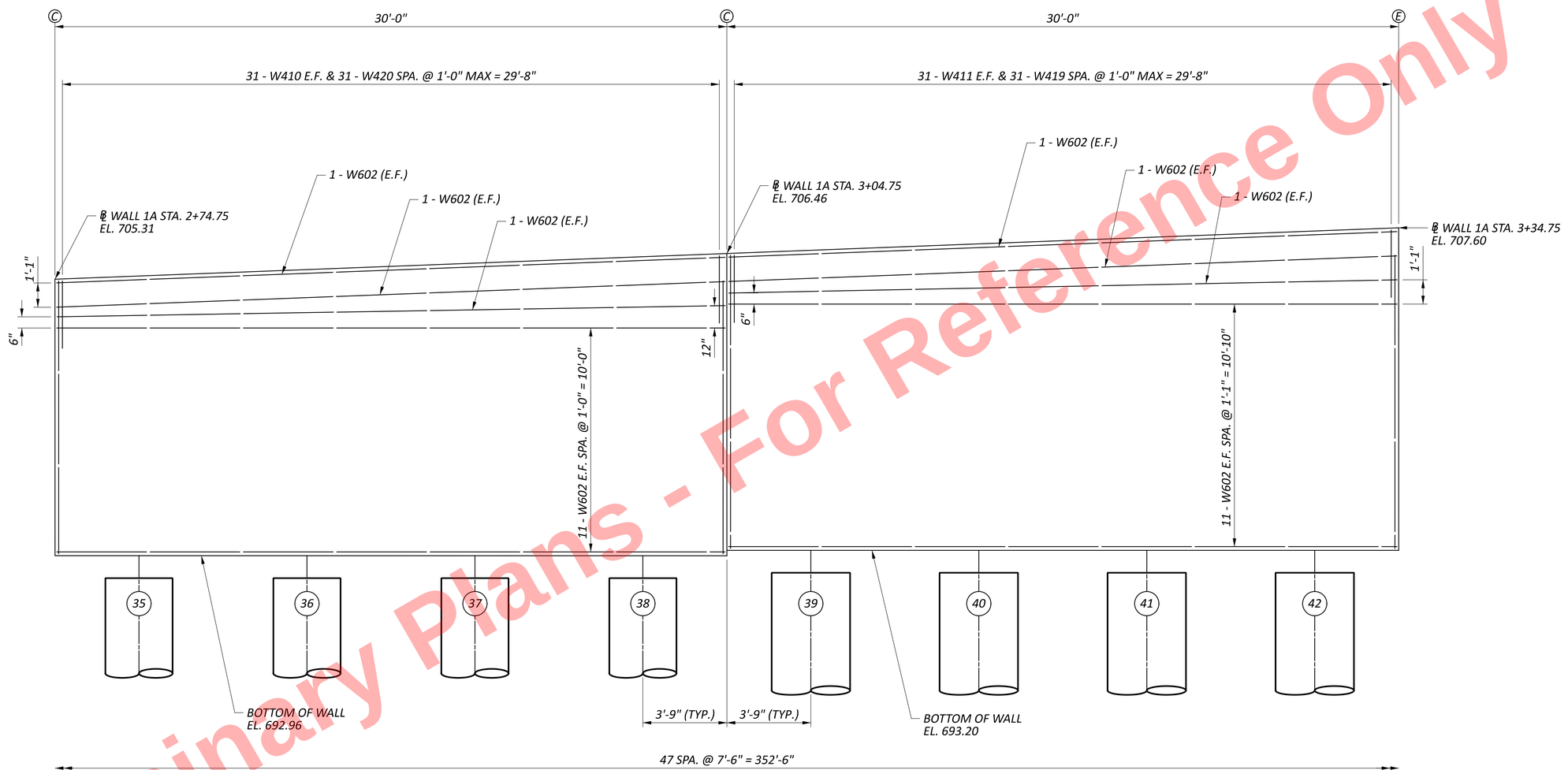

PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- (#) - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/16.

Preliminary Plans - For Reference Only

WALL ELEVATION
RETAINING WALL 1A

DESIGN AGENCY
TRC

DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 9 TOTAL 16
SHEET P.835 TOTAL P.1269

MODEL: Sheet 6 - Panels 12-13 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:28:16 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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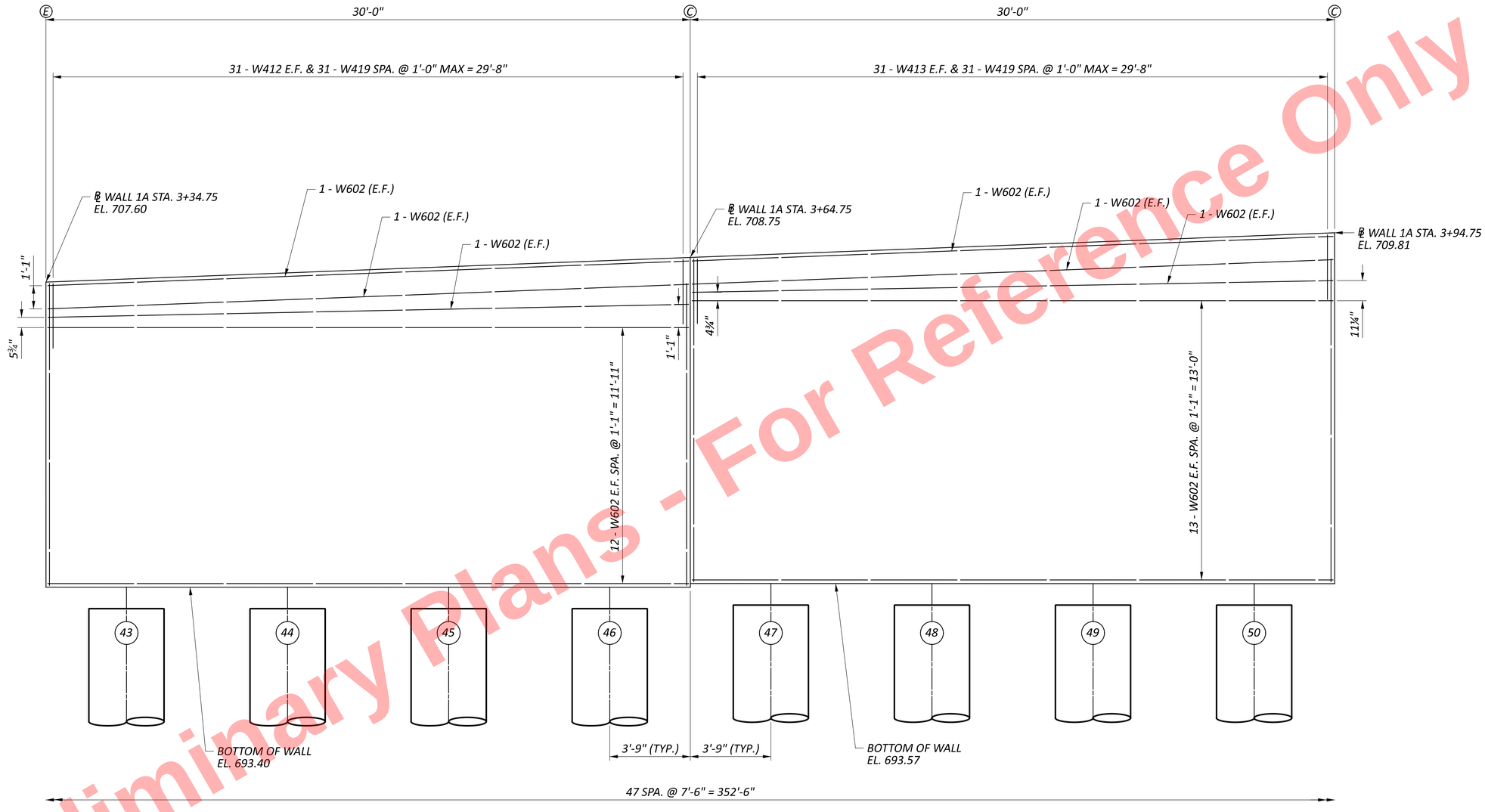

PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- Ⓝ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/16.

Preliminary Plans - For Reference Only

WALL ELEVATION
RETAINING WALL 1A

DESIGN AGENCY
TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	10
TOTAL	16
SHEET	P.836
TOTAL	P.1269

MODEL: Sheet 7 - Panels 14-16 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:28:23 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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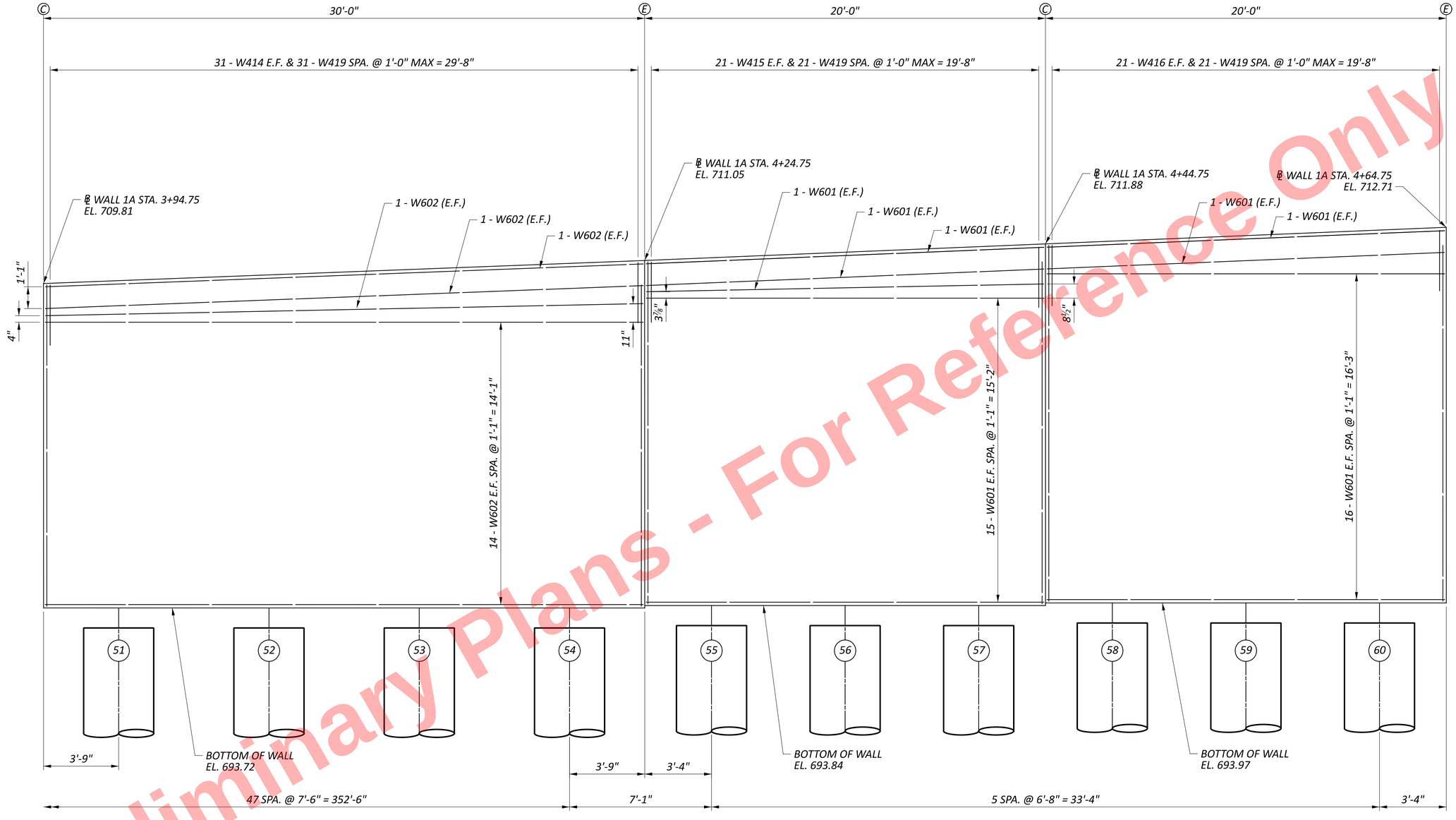

PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- Ⓝ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/16.

Preliminary Plans - For Reference Only

WALL ELEVATION
RETAINING WALL 1A

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 11 | TOTAL 16

SHEET P.837 | TOTAL P.1269

MODEL: Sheet 8 - Panels 17-18 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:28:30 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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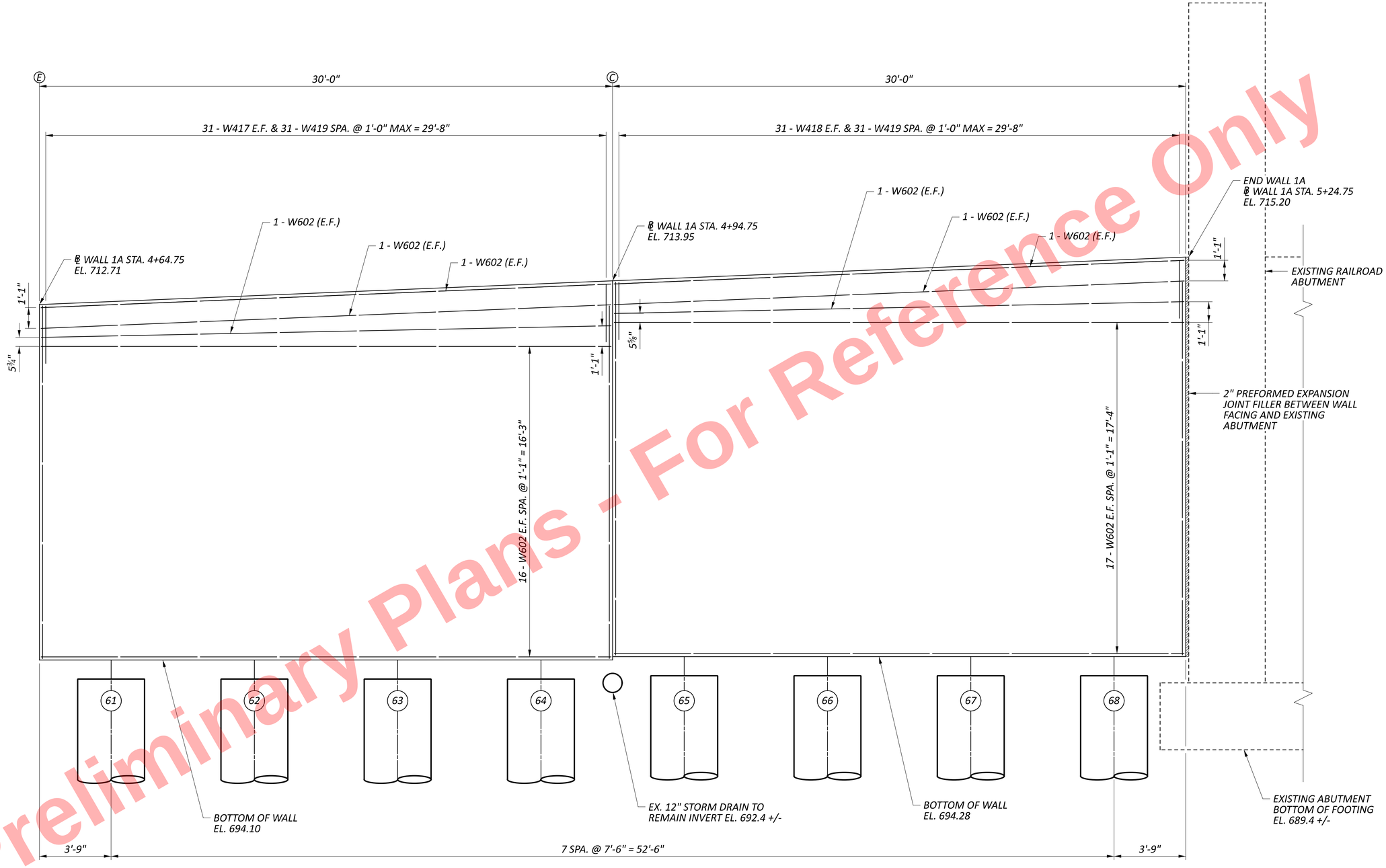
Preliminary Plans - For Reference Only



MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

PARTIAL ELEVATION

LEGEND:

- Ⓝ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/16.

WALL ELEVATION
RETAINING WALL 1A

DESIGN AGENCY
TRC

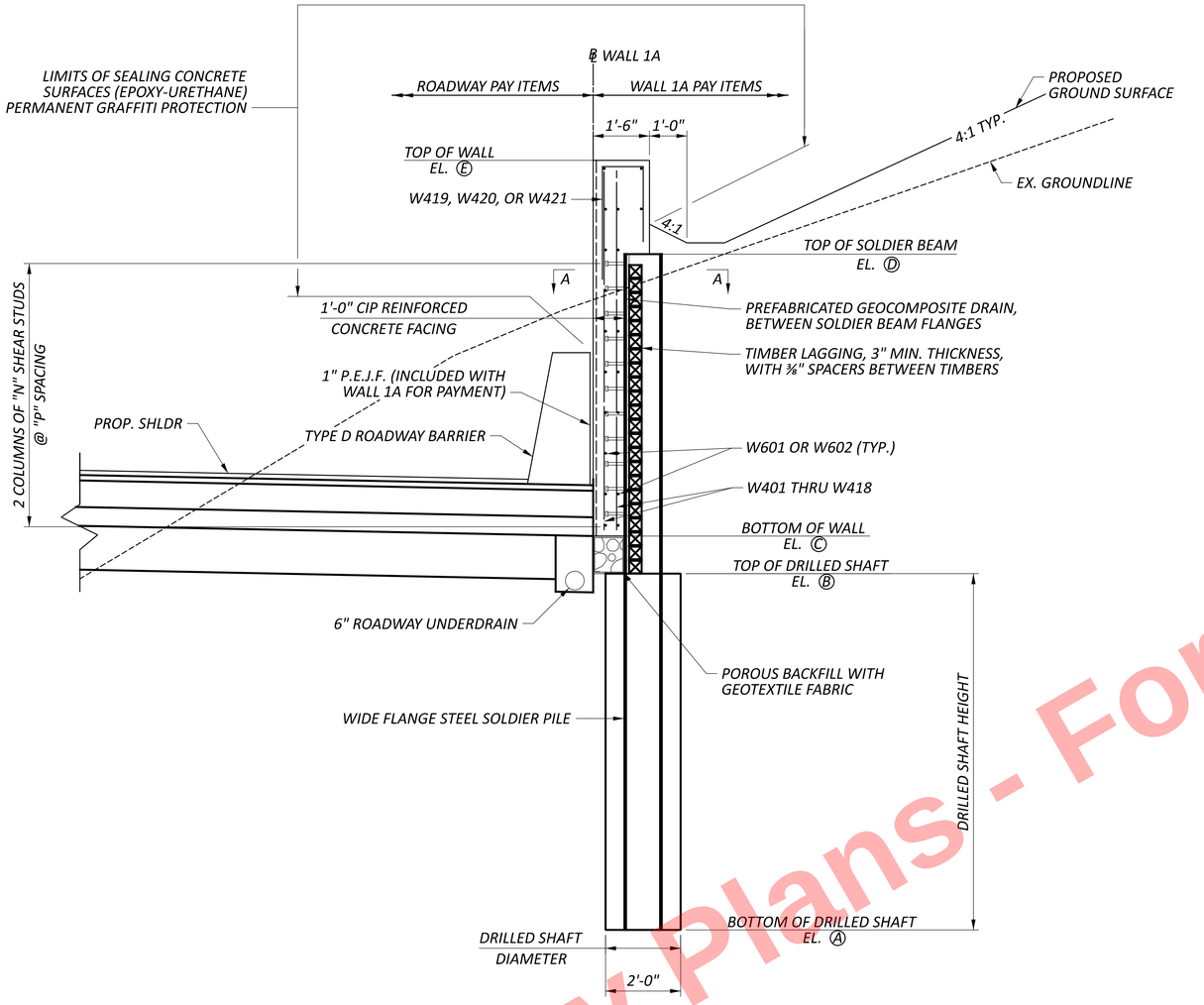
DESIGNER
CEJ

REVIEWER
CJW 11/17/25

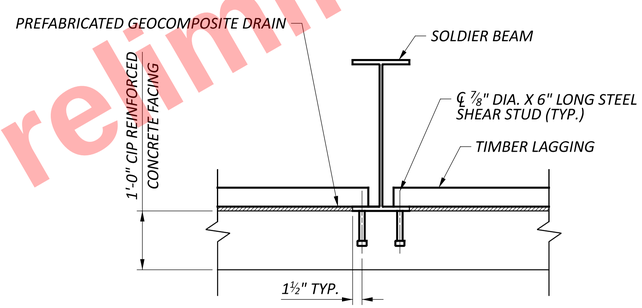
PROJECT ID
105743

SUBSET 12 | TOTAL 16

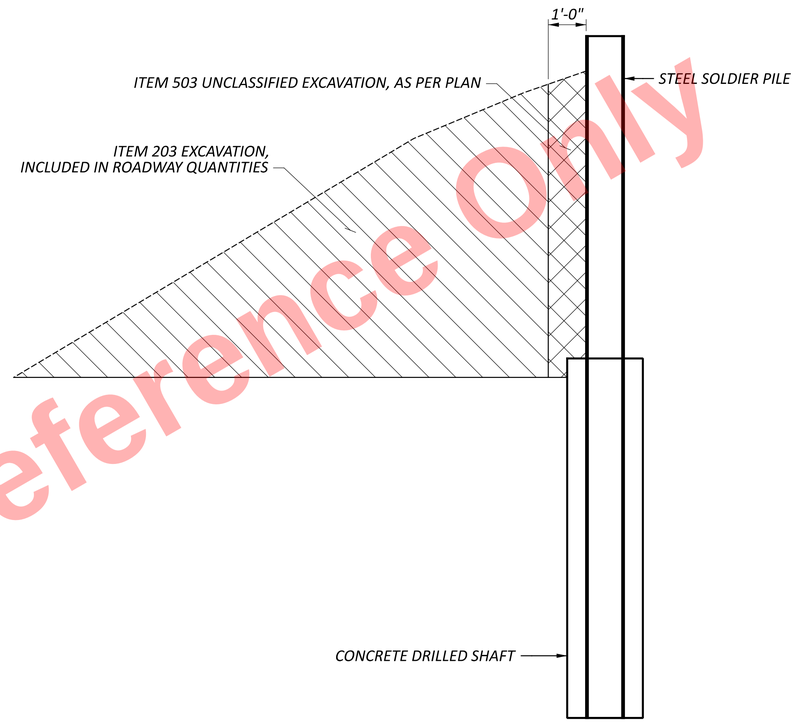
SHEET P.838 | TOTAL P.1269



WALL 1A TYPICAL SECTION



SECTION A-A



EXCAVATION SCHEMATIC

LEGEND

503 UNCLASSIFIED EXCAVATION

203 EXCAVATION

NOTES:

1. AT THE CONTRACTOR'S OPTION, THE SOLDIER BEAM SIZE MAY BE INCREASED AT NO ADDITIONAL COST TO THE DEPARTMENT. THE PROPOSED BEAM SIZE MUST HAVE A SECTION MODULUS EQUAL TO OR GREATER THAN THE BEAM SIZE SPECIFIED. IN ADDITION, THE PROPOSED BEAM MUST ALLOW AT LEAST 3 INCHES OF CLEARANCE BETWEEN THE FLANGES AND THE SIDE OF THE DRILLED SHAFT.
2. THE NOMINAL CONCRETE FACING THICKNESS IS 12 INCHES. TO ADDRESS MISALIGNMENT OF SOLDIER BEAMS, THE CONTRACTOR MAY PROVIDE ADDITIONAL THICKNESS BUT AT NO ADDITIONAL COST TO THE DEPARTMENT.
3. INSTALL THE PREFABRICATED GEOCOMPOSITE DRAIN (PGD) BETWEEN SOLDIER BEAMS IN ACCORDANCE WITH CMS 518.06. WHERE TIMBER LAGGING IS PLACED, THE PGD SHALL BE SECURED TO THE LAGGING. IF LAGGING IS NOT REQUIRED BECAUSE THE PORTION OF THE WALL IS ABOVE THE EXISTING GROUND, THE PGD SHALL BE ATTACHED TO THE BACK SURFACE OF THE CONCRETE WALL FACING. PGD SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BELOW THE WALL FACING.
4. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/16.
5. FOR PILE AND DRILLED SHAFT DIMENSIONS AND ELEVATIONS, SEE SHEET 14/16.

Preliminary Plans - For Reference Only

TYPICAL SECTION RETAINING WALL 1A

DESIGN AGENCY TRC

DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 13 | TOTAL 16

SHEET P.839 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:28:38 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL01A\Sheets\105743_WALL01A_WY001.dgn

DRILLED SHAFT NUMBER	WALL 1A STATION	OFFSET	BOTT. OF SHAFT ELEVATION (EL. A)	TOP OF SHAFT ELEVATION (EL. B)	BOTT. OF WALL ELEVATION (EL. C)	TOP OF SOLDIER BEAM ELEV. (EL. D)	TOP OF WALL ELEVATION (EL. E)	LENGTH OF SOLDIER BEAM (FEET)	DRILLED SHAFT DIAMETER (INCHES)	SOLDIER BEAM SIZE	NUM. OF SHEAR STUD PAIRS (N)	SPACING OF SHEAR STUDS (P)
1	00+28.08	1.66 LT	669.69	689.69	690.69	691.87	695.87	22.18	24.00	W16X36	2	8.00 in
2	00+34.75	1.66 LT	669.69	689.69	690.69	692.15	696.12	22.46	24.00	W16X36	2	11.25 in
3	00+41.42	1.66 LT	669.69	689.69	690.69	692.42	696.38	22.73	24.00	W16X36	3	7.25 in
4	00+48.08	1.66 LT	669.69	689.69	690.69	692.69	696.63	23.00	24.00	W16X36	3	8.75 in
5	00+54.75	1.66 LT	669.69	689.69	690.69	692.96	696.89	23.27	24.00	W16X36	3	10.50 in
6	00+61.42	1.66 LT	669.69	689.69	690.69	693.23	697.14	23.54	24.00	W16X36	4	8.00 in
7	00+68.50	1.66 LT	669.69	689.69	690.69	693.52	697.41	23.83	24.00	W16X36	4	9.25 in
8	00+76.00	1.66 LT	669.69	689.69	690.69	693.83	697.70	24.14	24.00	W16X36	4	10.50 in
9	00+83.50	1.66 LT	669.69	689.69	690.69	694.13	697.99	24.44	24.00	W16X36	4	11.75 in
10	00+91.00	1.66 LT	669.69	689.69	690.69	694.44	698.27	24.75	24.00	W16X36	5	9.50 in
11	00+98.50	1.86 LT	670.01	690.01	691.01	694.75	698.56	24.74	30.00	W21X48	5	9.50 in
12	01+06.00	1.86 LT	670.01	690.01	691.01	695.05	698.85	25.04	30.00	W21X48	5	10.50 in
13	01+13.50	1.86 LT	670.01	690.01	691.01	695.36	699.14	25.35	30.00	W21X48	5	11.50 in
14	01+21.00	1.86 LT	670.01	690.01	691.01	695.66	699.42	25.65	30.00	W21X48	6	9.75 in
15	01+28.50	1.86 LT	670.37	690.37	691.37	695.97	699.71	25.60	30.00	W21X48	6	9.75 in
16	01+36.00	1.86 LT	670.37	690.37	691.37	696.27	700.00	25.90	30.00	W21X48	6	10.50 in
17	01+43.50	1.86 LT	670.37	690.37	691.37	696.58	700.28	26.21	30.00	W21X48	6	11.25 in
18	01+51.00	1.86 LT	670.37	690.37	691.37	696.89	700.57	26.52	30.00	W21X48	7	10.00 in
19	01+58.50	1.88 LT	669.73	690.73	691.73	697.19	700.86	27.46	30.00	W21X73	6	11.75 in
20	01+66.00	1.88 LT	669.73	690.73	691.73	697.50	701.15	27.77	30.00	W21X73	7	10.50 in
21	01+73.50	1.88 LT	669.73	690.73	691.73	697.80	701.43	28.07	30.00	W21X73	7	11.00 in
22	01+81.00	1.88 LT	669.73	690.73	691.73	698.11	701.72	28.38	30.00	W21X73	7	11.75 in
23	01+88.50	1.88 LT	670.07	691.07	692.07	698.42	702.01	28.35	30.00	W21X73	7	11.50 in
24	01+96.00	1.88 LT	670.07	691.07	692.07	698.72	702.29	28.65	30.00	W21X73	8	10.50 in
25	02+03.50	1.88 LT	670.07	691.07	692.07	699.03	702.58	28.96	30.00	W21X73	8	11.00 in
26	02+11.00	1.88 LT	670.07	691.07	692.07	699.33	702.87	29.26	30.00	W21X73	8	11.50 in
27	02+18.50	2.01 LT	670.40	691.40	692.40	699.64	703.15	29.24	36.00	W24X94	8	11.50 in
28	02+26.00	2.01 LT	670.40	691.40	692.40	699.94	703.44	29.54	36.00	W24X94	9	10.50 in
29	02+33.50	2.01 LT	670.40	691.40	692.40	700.25	703.73	29.85	36.00	W24X94	9	11.00 in
30	02+41.00	2.01 LT	670.40	691.40	692.40	700.56	704.02	30.16	36.00	W24X94	9	11.25 in
31	02+48.50	2.01 LT	670.69	691.69	692.69	700.86	704.30	30.17	36.00	W24X94	9	11.50 in
32	02+56.00	2.01 LT	670.69	691.69	692.69	701.17	704.59	30.48	36.00	W24X94	9	11.75 in
33	02+63.50	2.01 LT	670.69	691.69	692.69	701.47	704.88	30.78	36.00	W24X94	10	11.00 in
34	02+71.00	2.01 LT	670.69	691.69	692.69	701.78	705.16	31.09	36.00	W24X94	10	11.25 in
35	02+78.50	2.01 LT	670.96	691.96	692.96	702.09	705.45	31.13	36.00	W24X94	10	11.50 in
36	02+86.00	2.01 LT	670.96	691.96	692.96	702.39	705.74	31.43	36.00	W24X94	10	11.75 in
37	02+93.50	2.01 LT	670.96	691.96	692.96	702.70	706.03	31.74	36.00	W24X94	11	11.00 in
38	03+01.00	2.01 LT	670.96	691.96	692.96	703.00	706.31	32.04	36.00	W24X94	11	11.25 in
39	03+08.50	2.04 LT	670.20	692.20	693.20	703.31	706.60	33.11	42.00	W24X162	11	11.50 in
40	03+16.00	2.04 LT	670.20	692.20	693.20	703.62	706.89	33.42	42.00	W24X162	11	11.75 in
41	03+23.50	2.04 LT	670.20	692.20	693.20	703.92	707.17	33.72	42.00	W24X162	12	11.00 in
42	03+31.00	2.04 LT	670.20	692.20	693.20	704.23	707.46	34.03	42.00	W24X162	12	11.25 in
43	03+38.50	2.04 LT	670.40	692.40	693.40	704.53	707.75	34.13	42.00	W24X162	12	11.50 in
44	03+46.00	2.04 LT	670.40	692.40	693.40	704.84	708.04	34.44	42.00	W24X162	12	11.75 in
45	03+53.50	2.04 LT	670.40	692.40	693.40	705.14	708.32	34.74	42.00	W24X162	13	11.00 in
46	03+61.00	2.04 LT	670.40	692.40	693.40	705.45	708.61	35.05	42.00	W24X162	13	11.50 in
47	03+68.50	2.04 LT	669.57	692.57	693.57	705.76	708.90	36.19	42.00	W24X162	13	11.50 in
48	03+76.00	2.04 LT	669.57	692.57	693.57	706.06	709.18	36.49	42.00	W24X162	13	11.75 in
49	03+83.50	2.04 LT	669.57	692.57	693.57	706.37	709.47	36.80	42.00	W24X162	14	11.25 in
50	03+91.00	2.04 LT	669.57	692.57	693.57	706.67	709.76	37.10	42.00	W24X162	14	11.50 in
51	03+98.50	2.04 LT	669.72	692.72	693.72	706.98	710.05	37.26	42.00	W24X162	14	11.75 in
52	04+06.00	2.04 LT	669.72	692.72	693.72	707.29	710.33	37.57	42.00	W24X162	15	11.00 in
53	04+13.50	2.04 LT	669.72	692.72	693.72	707.59	710.62	37.87	42.00	W24X162	15	11.25 in
54	04+21.00	2.04 LT	669.72	692.72	693.72	707.90	710.91	38.18	42.00	W24X162	15	11.50 in
55	04+28.08	2.04 LT	668.84	692.84	693.84	708.19	711.19	39.35	42.00	W24X162	15	11.75 in
56	04+34.75	2.04 LT	668.84	692.84	693.84	708.46	711.46	39.62	42.00	W24X162	16	11.25 in
57	04+41.42	2.04 LT	668.84	692.84	693.84	708.74	711.74	39.90	42.00	W24X162	16	11.50 in
58	04+48.08	2.04 LT	668.97	692.97	693.97	709.02	712.02	40.05	42.00	W24X162	16	11.50 in
59	04+54.75	2.04 LT	668.97	692.97	693.97	709.29	712.29	40.32	42.00	W24X162	16	11.75 in
60	04+61.42	2.04 LT	668.97	692.97	693.97	709.57	712.57	40.60	42.00	W24X162	17	11.25 in
61	04+68.50	2.41 LT	667.10	693.10	694.10	709.87	712.87	42.77	42.00	W33X169	17	11.25 in
62	04+76.00	2.41 LT	667.10	693.10	694.10	710.18	713.18	43.08	42.00	W33X169	17	11.50 in
63	04+83.50	2.41 LT	667.10	693.10	694.10	710.49	713.49	43.39	42.00	W33X169	17	11.75 in
64	04+91.00	2.41 LT	667.10	693.10	694.10	710.80	713.80	43.70	42.00	W33X169	18	11.25 in
65	04+98.50	2.41 LT	667.28	693.28	694.28	711.11	714.11	43.83	42.00	W33X169	18	11.50 in
66	05+06.00	2.41 LT	667.28	693.28	694.28	711.42	714.42	44.14	42.00	W33X169	18	11.50 in
67	05+13.50	2.41 LT	667.28	693.28	694.28	711.73	714.73	44.45	42.00	W33X169	18	11.75 in
68	05+21.00	2.41 LT	667.28	693.28	694.28	712.04	715.04	44.76	42.00	W33X169	19	11.50 in

Preliminary Plans - Not For Reference Only

NOTES:

1. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4//16.
2. FOR TYPICAL WALL SECTION, SEE SHEET 13/16.
3. FOR WALL FACING ELEVATIONS, SEE SHEETS 5/16 TO 12/16.

PILE AND DRILLED SHAFT SIZE AND DIMENSION TABLE
RETAINING WALL 1A

DESIGN AGENCY: TRC

DESIGNER: CEJ

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 14 | TOTAL: 16

SHEET: P.840 | TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:28:45 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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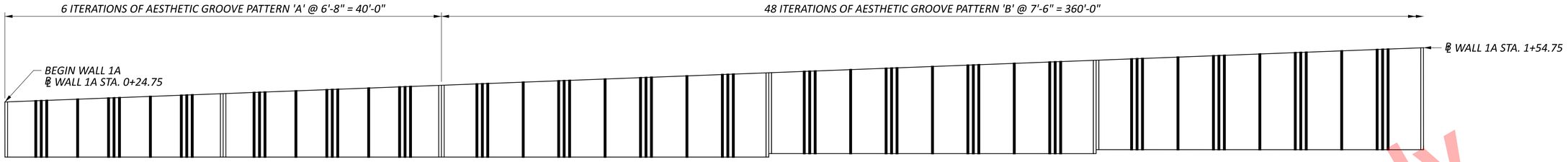
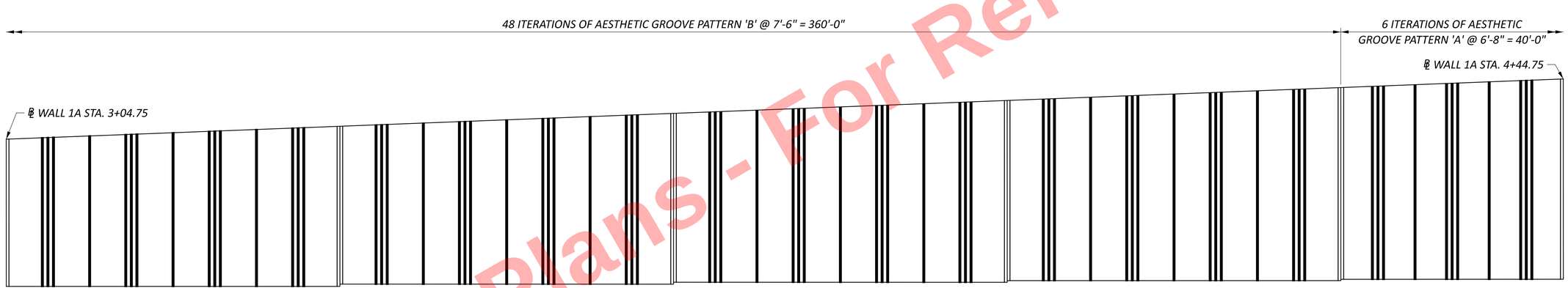
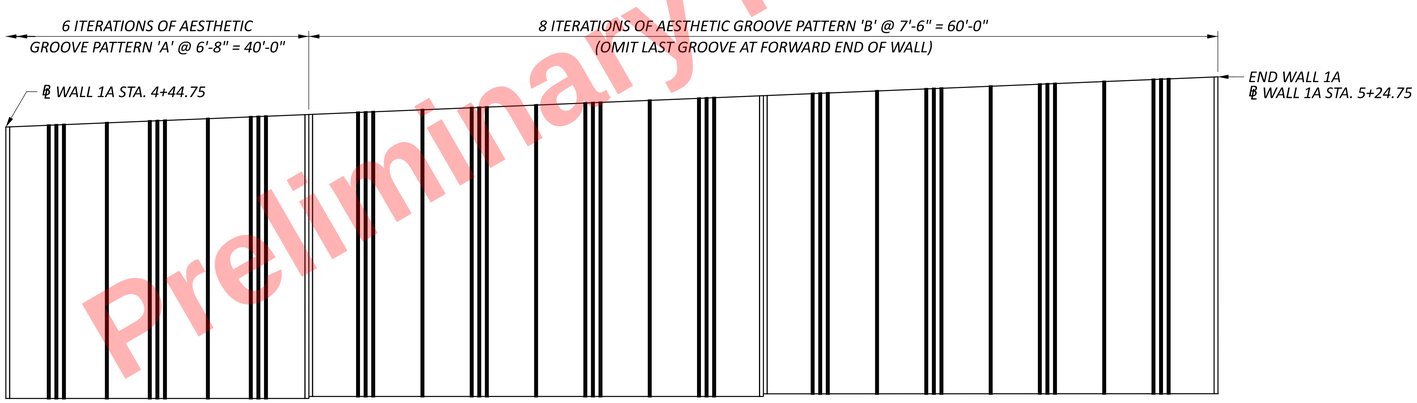
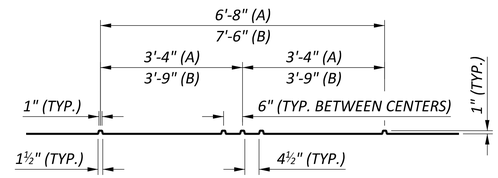








AESTHETIC WALL FACING ELEVATION



AESTHETIC VERTICAL GROOVE DETAIL

LEGEND:

(A) - AESTHETIC GROOVE PATTERN 'A'
(B) - AESTHETIC GROOVE PATTERN 'B'

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. THE AESTHETIC VERTICAL GROOVE PATTERN MAY TERMINATE WITHIN THE FACING HEIGHT BUT AT MINIMUM MUST EXTEND FROM THE TOP TO 4'-0" FROM THE BOTTOM OF WALL.
3. PAYMENT FOR ALL FORMWORK, MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO PRODUCE THE AESTHETIC WALL FACING PATTERN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 511, CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN.
4. FOR WALL FACING ELEVATIONS, SEE SHEETS 5/16 THRU 12/16.

Preliminary Plans - For Reference Only

AESTHETIC DETAILS RETAINING WALL 1A

CUY-77-11.41 - PART 1

MODEL: panels 1-3 sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:28:52 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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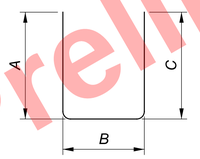
DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	15
TOTAL	16
SHEET	P.841
TOTAL	P.1269

MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
W401	42	4'-9"	133	STR							
W402	42	5'-4"	150	STR							
W403	62	6'-3"	259	STR							
W404	62	7'-0"	290	STR							
W405	62	7'-10"	324	STR							
W406	62	8'-7"	355	STR							
W407	62	9'-5"	390	STR							
W408	62	10'-3"	425	STR							
W409	62	11'-1"	459	STR							
W410	62	12'-0"	497	STR							
W411	62	12'-11"	535	STR							
W412	62	13'-10"	573	STR							
W413	62	14'-10"	614	STR							
W414	62	15'-9"	652	STR							
W415	42	16'-10"	472	STR							
W416	42	17'-6"	491	STR							
W417	62	18'-3"	756	STR							
W418	62	19'-4"	801	STR							
W419	228	6'-10"	1041	2	3'-3"	1'-0"	2'-9"				
W420	155	7'-1"	733	2	3'-3"	1'-0"	3'-1"				
W421	135	7'-6"	676	2	3'-3"	1'-0"	3'-5"				
W601	100	19'-8"	2954	STR							
W602	378	29'-8"	16843	STR							
		TOTAL	30,423								



TYPE-2

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. ALL REINFORCING STEEL TO BE EPOXY COATED.

Preliminary Plans - For Reference Only

REINFORCING STEEL LIST
RETAINING WALL 1A

DESIGN AGENCY TRC
DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 16 TOTAL 16
SHEET P.842 TOTAL P.1269

CUY-77-11.41 - PART 1

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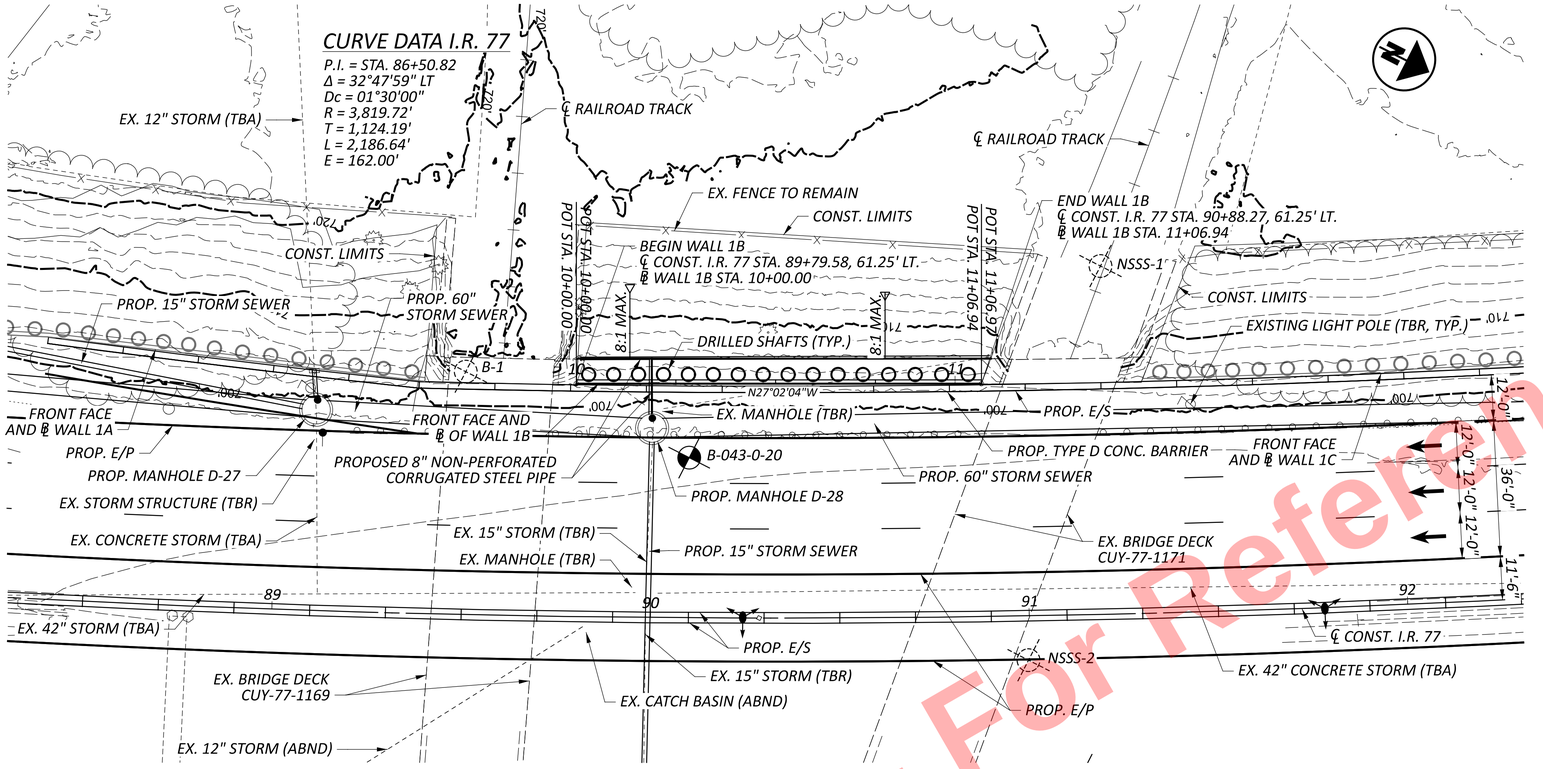
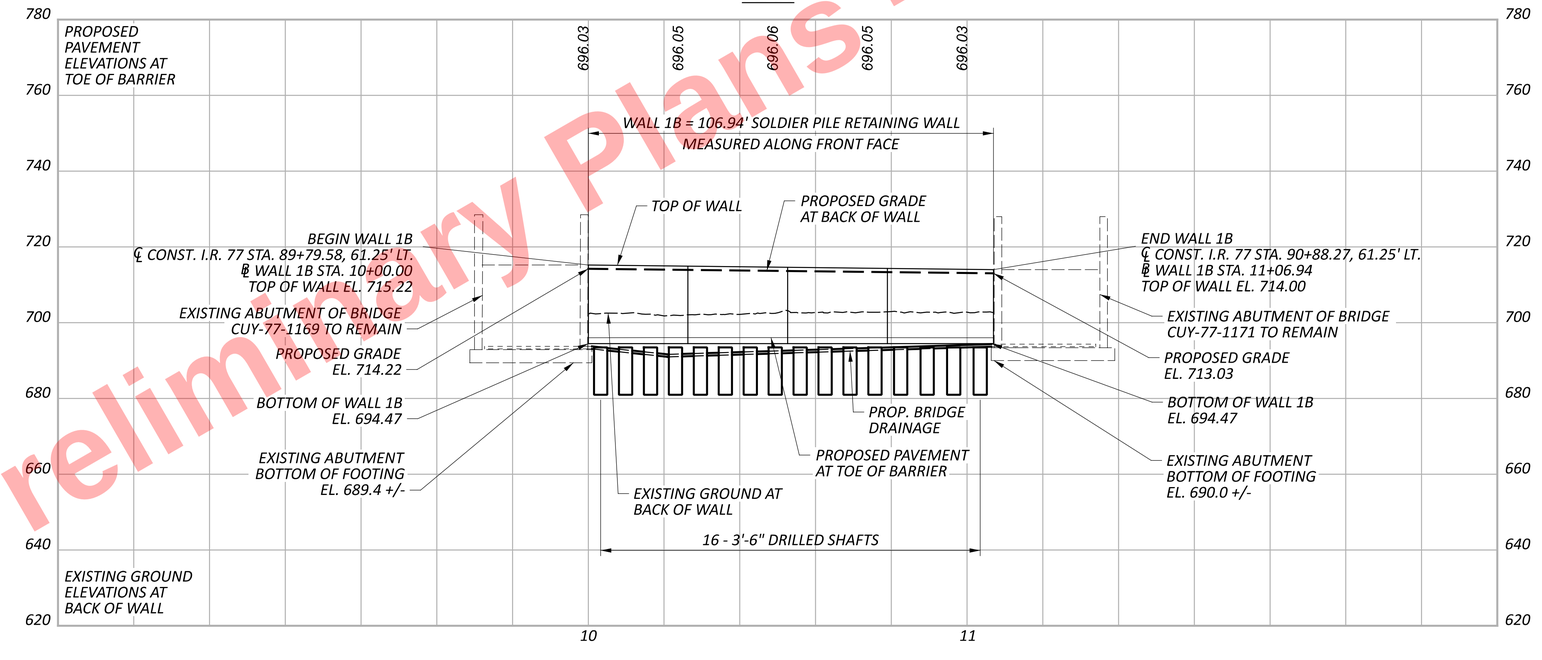
Preliminary Plans - For Reference Only



PLAN



ELEVATION

(STATIONING ALONG ℄ WALL 1B)

NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. FOR DRAINAGE DETAILS, SEE SHEET 4/10.
3. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A AND 1B.

LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION
- HISTORIC SOIL BORING LOCATION

SITE PLAN
RETAINING WALL 1B

DESIGN AGENCY: TRC

DESIGNER: CEJ

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 1 | TOTAL: 10

SHEET: P.843 | TOTAL: P.1269

CUY-77-11.41 - PART 1

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pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL01B\Sheets\105743_WALL01B_WP001.dgn

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 10TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

EPOXY COATED REINFORCING STEEL - MIN.YIELD STRENGTH 60 KSI

STEEL SOLDIER PILES - ASTM A572 - YIELD STRENGTH 50 KSI

ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W=30x211

THIS WORK CONSISTS OF FURNISHING AND PLACING STEEL SOLDIER PILES INTO DRILLED HOLES. FURNISH SOLDIER PILES CONSISTING OF STRUCTURAL STEEL MEMBERS THAT MEET THE PLAN REQUIREMENTS AND CONFORM TO ASTM A572, GRADE 50. DO NOT FIELD WELD OR SPLICE STEEL SOLDIER PILES.

THE DEPARTMENT WILL MEASURE SOLDIER PILES ALONG THE AXIS OF THE SOLDIER PILE FROM THE TOP OF WALL ELEVATION TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER. THE DEPARTMENT WILL PAY FOR SOLDIER PILES AT THE CONTRACT UNIT PRICE PER FOOT FOR ITEM 507, STEEL PILES, MISC.: SOLDIER PILES, W30x211.

ITEM 512 - TYPE 2 WATERPROOFING, AS PER PLAN

PLACE WATERPROOFING MEMBRANE AT THE LOCATIONS OF THE PROPOSED JOINTS IN THE CONCRETE WALL FACING. PLACE THE WATERPROOFING MEMBRANE OVER THE PGD AND SECURELY ATTACH TO THE TIMBER LAGGING WITH SCREWS AND 1-INCH OUTER DIAMETER FENDER WASHERS. PLACE THE MEMBRANE SO THAT THE ADHESIVE SIDE FACES THE CAST-IN-PLACE CONCRETE. THE SURFACE PREPARATION DESCRIBED IN C&MS 512.08 IS NOT REQUIRED.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

ITEM 512 - SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION)

APPLY A PERMANENT GRAFFITI COATING QUALIFIED ACCORDING TO S1083 THAT IS COMPATIBLE WITH THE CONCRETE SEALER OVER WHICH IT IS APPLIED. APPLY THE GRAFFITI COATING IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.

ITEM 513 - WELDED STUD SHEAR CONNECTORS, AS PER PLAN

SOLDIER PILES WHICH REQUIRE HEADED STUDS ARE SHOWN IN THE TABLE ON SHEET 8/10. WELD HEADED STEEL STUDS TO THE FLANGES OF THE SOLDIER PILE IN ORDER TO CONNECT THE CAST-IN-PLACE CONCRETE WALL FACING TO THE SOLDIER PILE. ATTACH HEADED STUDS ACCORDING TO C&MS 513.22 AND AS SHOWN IN THE PLANS. THE CONTRACTOR MAY ATTACH THE STUDS EITHER BEFORE PLACING THE SOLDIER PILE IN THE DRILLED HOLE OR AFTER EXCAVATING IN FRONT OF THE WALL. PROTECT THE HEADED STUDS FROM DAMAGE UNTIL THE CONCRETE WALL FACING IS POURED. REPAIR OR REPLACE DAMAGED HEADED STUDS AT NO EXPENSE TO THE DEPARTMENT.

ITEM 518 - 8" NON-PERFORATED CORRUGATED STEEL PIPE, INCLUDING SPECIALS, 707.01, AS PER PLAN

THIS WORK CONSISTS OF FURNISHING AND INSTALLING CORRUGATED STEEL DRAIN PIPES TO REPLACE EXISTING CONDUITS IN THE ABUTMENT DRAINAGE OF BRIDGES CUY-77-1169 AND CUY-77-1171 THAT ARE REMOVED FOR THE RETAINING WALL CONSTRUCTION. THE NEW CONDUITS SHALL BE CONNECTED TO THE REMAINING OUTLET PIPES AT THE BRIDGE ABUTMENTS AND TO THE DISCHARGE PORTAL IN THE COLLECTOR MANHOLE. THE STEEL CONDUITS SHALL BE PLACED AT THE PROPOSED ELEVATIONS IN THE PLANS FOR POSITIVE FLOW FROM THE BRIDGE ABUTMENTS TO THE MANHOLE.

THE CONTRACTOR SHALL ATTACH THE NEW CONDUITS TO THE EXISTING OUTLET PIPES WITH METAL BAND COUPLERS OR OTHER FASTENER DEVICES ACCEPTABLE TO THE ENGINEER. BEFORE CONNECTING THE NEW CONDUITS, THE CONTRACTOR SHALL CLEAN SEDIMENT AND DEBRIS FROM THE EXPOSED LENGTHS OF REMAINING ABUTMENT DRAIN PIPES AND VERIFY THAT THE EXISTING PIPES ARE UNOBSTRUCTED UP TO THE WINGWALLS.

ALL COUPLERS, ELBOWS, FITTINGS, AND JOINT SEALERS NECESSARY FOR THIS WORK SHALL BE INCIDENTAL TO THE STEEL PIPE COST. THE DEPARTMENT WILL PAY FOR ALL LABOR AND MATERIALS IN THE DRAIN PIPE INSTALLATION AT THE CONTRACT UNIT PRICE PER FOOT FOR ITEM 518, 8" NON-PERFORATED CORRUGATED STEEL PIPE, INCLUDING SPECAILS, 707.01, AS PER PLAN.

ITEM 524 - DRILLED SHAFT, 42" DIAMETER ABOVE BEDROCK, AS PER PLAN

THIS WORK CONSISTS OF FURNISHING AND INSTALLING DRILLED SHAFTS FOR SOLDIER PILE AND LAGGING WALLS. THE DRILLED SHAFTS ARE REINFORCED WITH SOLDIER PILES INSTEAD OF REINFORCING STEEL CAGES. THE SOLDIER PILES EXTEND ABOVE THE TOP OF THE DRILLED SHAFT. FURNISH AND INSTALL THE DRILLED SHAFTS ACCORDING TO C&MS 524 EXCEPT AS MODIFIED AND SUPPLEMENTED BELOW.

EXCAVATE THE HOLE FOR THE DRILLED SHAFT WITHIN 3 INCHES OF THE PLAN LOCATION. PLACE THE SOLDIER PILE WITHIN THE HOLE SO IT IS VERTICAL AND NOT INCLINED MORE THAN 1 INCH BETWEEN TOP AND BOTTOM. PLACE THE SOLDIER PILE SO THAT THE FLANGES ARE PARALLEL TO THE CENTERLINE OF THE ROW OF DRILLED SHAFTS. DO NOT ALLOW THE ORIENTATION OF THE FLANGES TO VARY BY MORE THAN 10 DEGREES. SUPPORT THE SOLDIER PILE SO THAT IT DOES NOT MOVE DURING CONCRETE PLACEMENT.

USE CLASS QC1 CONCRETE ACCORDING TO C&MS 511. PLACE CONCRETE TO THE ELEVATION FOR THE TOP OF THE DRILLED SHAFT. THE CONTRACTOR MAY PLACE CONCRETE USING THE FREE FALL METHOD PROVIDED THE DEPTH OF WATER IS LESS THAN 6 INCHES AND THE CONCRETE FALLS WITHOUT STRIKING THE SIDES OF THE HOLE. POURING CONCRETE ALONG THE WEB OF THE SOLDIER PILE IS ACCEPTABLE.

CHECK THE POSITION, THE VERTICAL ALIGNMENT AND ORIENTATION OF THE SOLDIER PILE IMMEDIATELY AFTER CONCRETE PLACEMENT. MAKE CORRECTIONS AS NECESSARY TO MEET THE ABOVE TOLERANCES.

FILL THE HOLE ABOVE THE BOTTOM OF THE LAGGING TO THE EXISTING GROUND SURFACE WITH ITEM 613 LOW STRENGTH MORTAR BACKFILL (LSM).

REMOVE CONCRETE AND LSM AS NECESSARY FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE THE LAGGING. PLACE THE LAGGING SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING. WAIT AT LEAST 12 HOURS AFTER PLACING CONCRETE IN THE DRILLED SHAFTS BEFORE PLACING LAGGING.

SEQUENCE OF INSTALLATION: INSTALL THE DRILLED SHAFTS IN A SEQUENCE SUCH THAT NO DRILLED SHAFT IS INSTALLED ADJACENT TO EITHER AN OPEN DRILLED SHAFT EXCAVATION OR A DRILLED SHAFT IN WHICH THE CONCRETE HAS LESS THAN A 48 HOUR CURE. INSTALLING THE SHAFTS IN AN ALTERNATING SEQUENCE OR ANY OTHER SEQUENCE THAT MEETS THIS CRITERIA IS PERMISSIBLE.

PROTECTION OF UNATTENDED OPEN SHAFTS: COVER UNATTENDED OPEN SHAFTS. USE TEMPORARY COVERS OF ADEQUATE STRENGTH TO PREVENT A PERSON OR ANIMAL FROM FALLING IN. LEAVE NO DRILLED SHAFT EXCAVATION UN-POURED OVERNIGHT.

THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHOD USED TO CONSTRUCT THE DRILLED SHAFTS AND PLACE LAGGING. ANY TEMPORARY GRADING, EXCAVATION, EMBANKMENT, AGGREGATE, DRAINAGE, SHEETING, ETC. NEEDED TO COMPLETE THE WORK IS INCLUDED IN THE BID PRICE FOR THE DRILLED SHAFTS. THE COST OF ANY EXCAVATION AND SUBSEQUENT REPLACEMENT OF EMBANKMENT (PER ITEM 203 EMBANKMENT) IS INCLUDED IN THE VARIOUS BID ITEMS FOR THE DRILLED SHAFTS AND LAGGING, UNLESS SEPARATELY ITEMIZED. NO SEPARATE PAYMENT WILL BE MADE.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE DRILLED SHAFTS ABOVE BEDROCK, AS PER PLAN, ALONG THE AXIS OF THE DRILLED SHAFT FROM THE EXISTING GROUND SURFACE TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER.

PAYMENT IS FULL COMPENSATION FOR CONSTRUCTING THE DRILLED SHAFTS, INCLUDING FURNISHING AND PLACING CONCRETE AND LSM, AND REMOVAL OF CONCRETE OR LSM FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE LAGGING.

ITEM SPECIAL - RETAINING WALL, TIMBER LAGGING

THIS WORK CONSISTS OF FURNISHING AND PLACING TIMBER LAGGING BETWEEN THE SOLDIER PILES AS TEMPORARY SUPPORT FOR THE RETAINED SOIL. FURNISH TIMBER LAGGING CONSISTING OF CONSTRUCTION GRADE, UNTREATED HARDWOOD WITH A MINIMUM THICKNESS OF 3 INCHES. TO PERMIT DRAINAGE, PROVIDE 1/4 TO 1/2-INCH SPACES BETWEEN LAGGING BOARDS USING 3/8-INCH THICK SPACER BLOCKS OR OTHER MEANS ACCEPTABLE TO THE ENGINEER. PLACE THE LAGGING BOARDS BETWEEN THE FLANGES OF THE SOLDIER PILES AND BEARING AGAINST THE FLANGES ON THE EXPOSED SIDE OF THE WALL SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING BOARDS. PERFORM EXCAVATION FOR PLACEMENT OF THE LAGGING IN SUCH A MANNER THAT THE LAGGING IS TIGHT AGAINST THE EXCAVATION CUT FACE. BACKFILL ANY VOIDS BEHIND THE LAGGING WITH A SUITABLE COMPACTED GRANULAR MATERIAL CONFORMING TO C&MS 703.16.C, ACCEPTABLE TO THE ENGINEER. THE COST OF ANY SUCH BACKFILLING REQUIRED, INCLUDING MATERIAL, PLACEMENT AND COMPACTION, IS INCIDENTAL TO THE COST OF LAGGING.

THE DEPARTMENT WILL PAY FOR TIMBER LAGGING AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR ITEM SPECIAL, RETAINING WALL, TIMBER LAGGING.

ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

℄ - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

Preliminary Plans - Plans For Reference Only

GENERAL NOTES
RETAINING WALL 1B

DESIGN AGENCY
TRC

DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 2 | TOTAL 10
SHEET P.844 | TOTAL P.1269

CUY-77-11.41 - PART 1

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ESTIMATED QUANTITIES (WALL 1B)

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
202	35100	112	FT	PIPE REMOVED, 24" DIAMETER AND UNDER	4
503	21101	36	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN	8
507	00400	899	FT	STEEL PILES, MISC.: SOLDIER PILES, W30x211	2
509	10000	9557	LB	EPOXY COATED STEEL REINFORCEMENT	
511	46013	84	CY	CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN	9
512	10001	209	SY	SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION)	2
512	10101	209	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	2
512	33001	19	SY	TYPE 2 WATERPROOFING, AS PER PLAN	2
513	20001	614	EACH	WELDED STUD SHEAR CONNECTORS, AS PER PLAN	2
516	13600	396	SF	1" PREFORMED EXPANSION JOINT FILLER	
516	13900	330	SF	2" PREFORMED EXPANSION JOINT FILLER	
518	20000	216	SY	PREFABRICATED GEOCOMPOSITE DRAIN	
518	21200	4	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
518	42301	123	FT	8" NON-PERFORATED CORRUGATED STEEL PIPE, INCLUDING SPECIALS, 707.01, AS PER PLAN	2
524	94803	560	FT	DRILLED SHAFTS, 42" DIAMETER, ABOVE BEDROCK, AS PER PLAN	2
SPECIAL	53051020	887	SF	RETAINING WALL, TIMBER LAGGING	2

Preliminary Plans - For Reference Only

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ESTIMATED QUANTITIES
RETAINING WALL 1B

DESIGN AGENCY
TRC

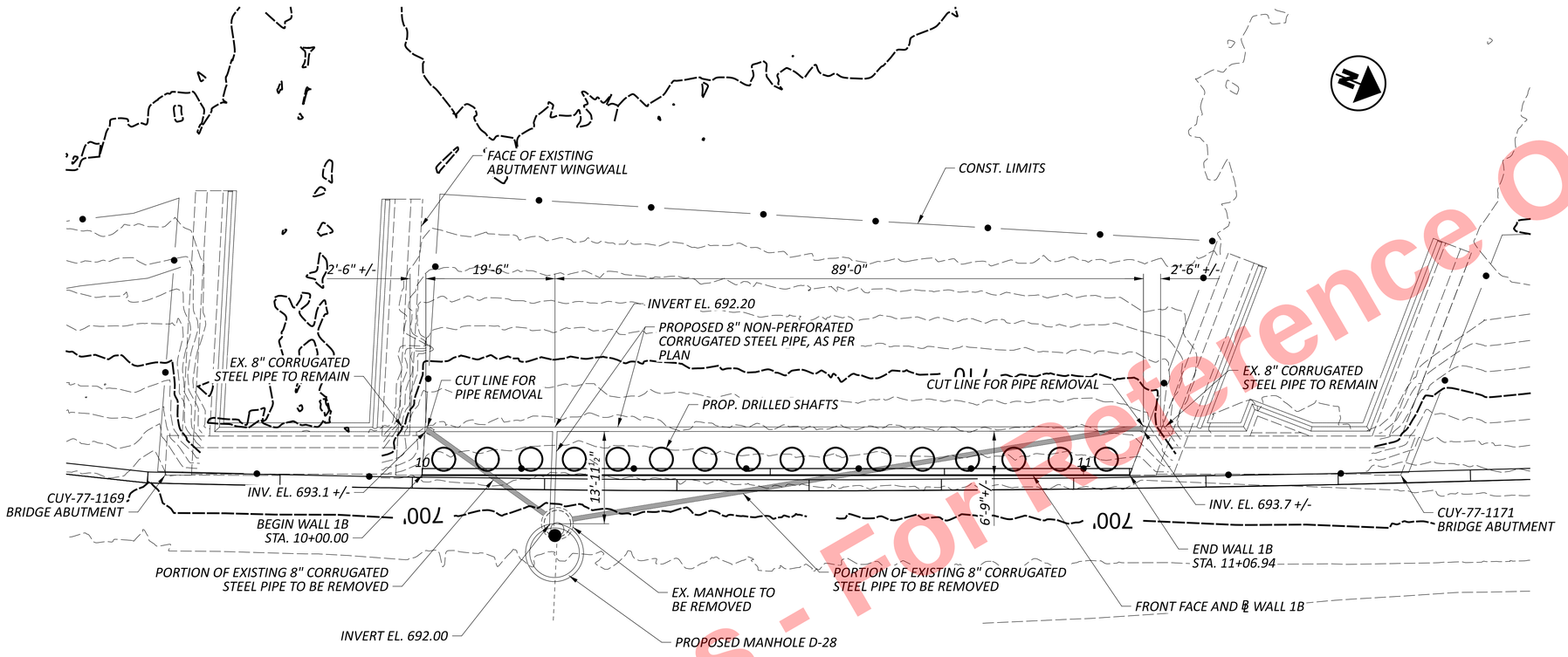
DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 3 | TOTAL 10

SHEET P.845 | TOTAL P.1269



DRAINAGE REMOVAL AND REPLACEMENT

(FOR CUY-77-1169 BRIDGE AND CUY-77-1171 BRIDGE)

NOTES:

1. *THE TOTAL ESTIMATED LENGTH OF PIPE TO BE REMOVED IS 110.00'.*
2. *SEE DRAINAGE PLANS FOR INFORMATION ON MANHOLE REMOVAL AND CONSTRUCTION.*

Preliminary Plans - For Reference Only

DRAINAGE DETAILS
RETAINING WALL 1B

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 4 | TOTAL 10

SHEET P.846 | TOTAL P.1269

CUY-77-11.41 - PART 1

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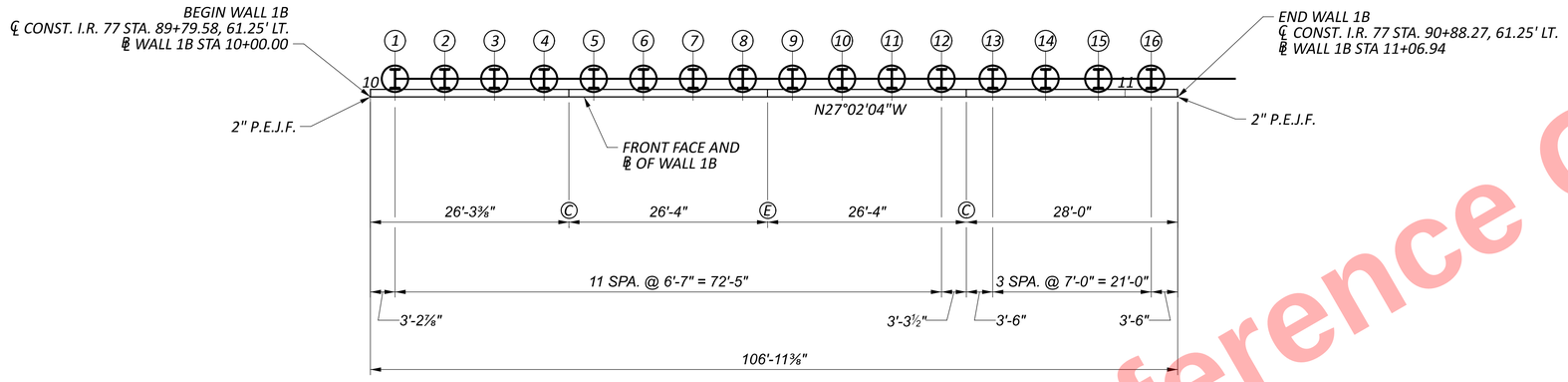
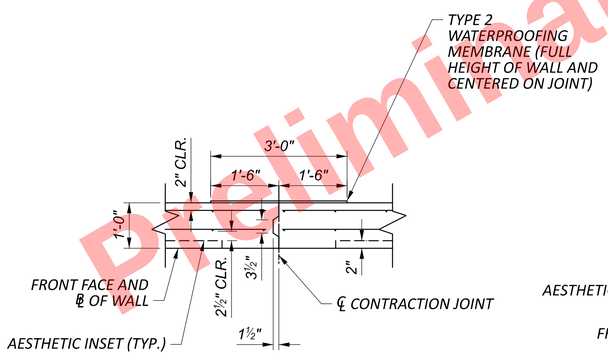
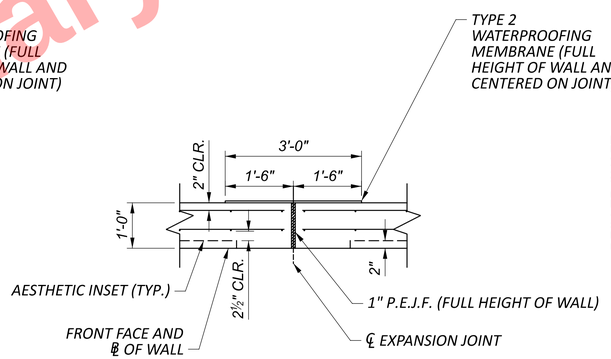


GENERAL PLAN

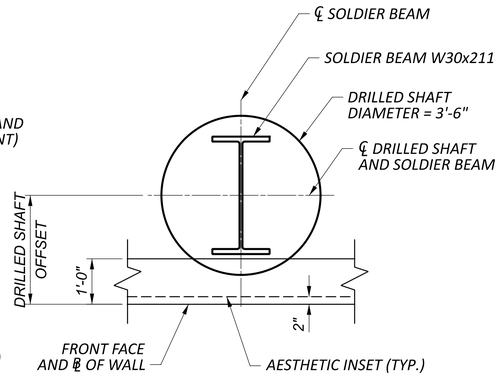
(DIMENSIONS ARE MEASURED ALONG FRONT FACE OF WALL)



CONTRACTION JOINT DETAIL



EXPANSION JOINT DETAIL



DRILLED SHAFT LOCATION DETAIL

LEGEND:

- Ⓘ - DENOTED 3'-6" Ø DRILLED SHAFT WITH SOLDIER BEAM.
- (#) - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

NOTE:

1. FOR WALL ELEVATION VIEW, SEE SHEETS 6/10 AND 7/10.
2. FOR SIZES AND OFFSET DIMENSIONS OF DRILLED SHAFTS AND SOLDIER BEAMS, SEE SHEET 8/10.
3. FOR AESTHETIC DETAILS, SEE SHEET 9/10.

Preliminary Plans - For Reference Only

PILE LAYOUT AND GEOMETRY SCHEMATIC
RETAINING WALL 1B

DESIGN AGENCY TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	5
TOTAL	10
SHEET	P.847
TOTAL	P.1269

CUY-77-11.41 - PART 1

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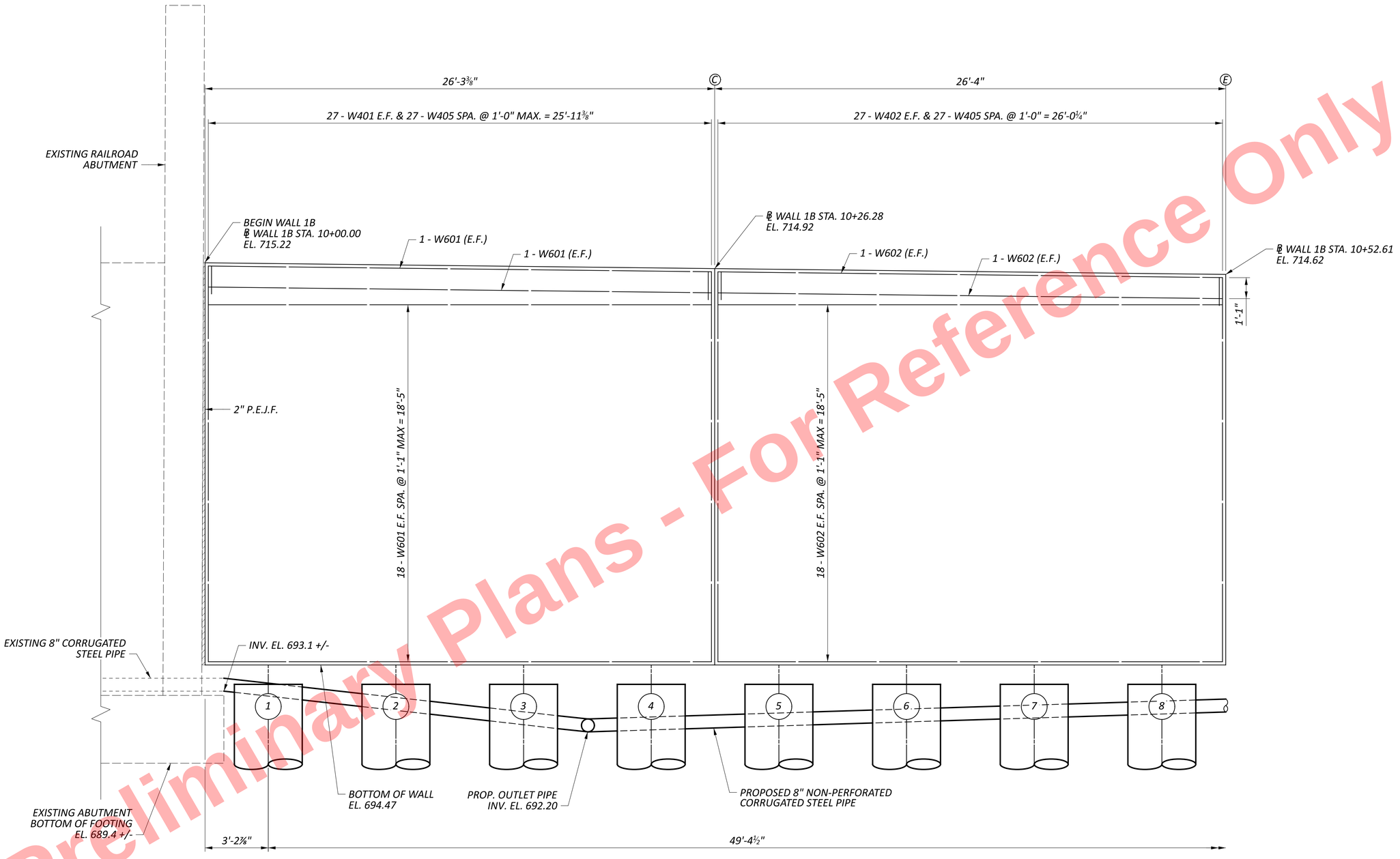

PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- Ⓝ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/10.
3. FOR DRILLED SHAFT DETAILS, SEE SHEET 4/10.

Preliminary Plans - For Reference Only

WALL ELEVATION
RETAINING WALL 1B

DESIGN AGENCY: TRC

DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 6 | TOTAL: 10
SHEET: P.848 | TOTAL: P.1269

CUY-77-11.41 - PART 1

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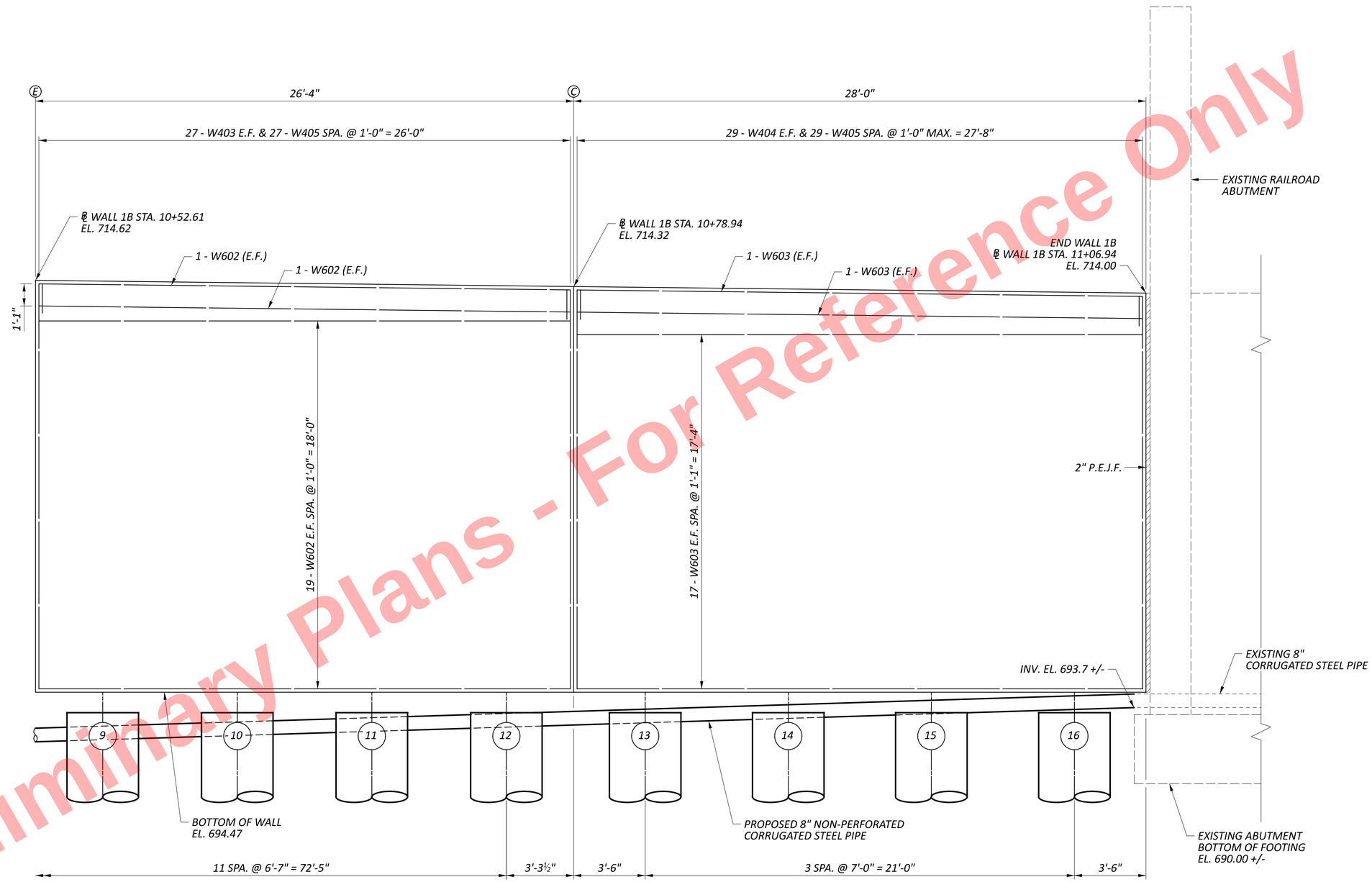
Preliminary Plans - For Reference Only



PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- Ⓝ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/10.
3. FOR DRAINAGE DETAILS, SEE SHEET 4/10.

WALL ELEVATION
RETAINING WALL 1B

DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	7
TOTAL	10
SHEET	P.849
TOTAL	P.1269

CUY-77-11.41 - PART 1

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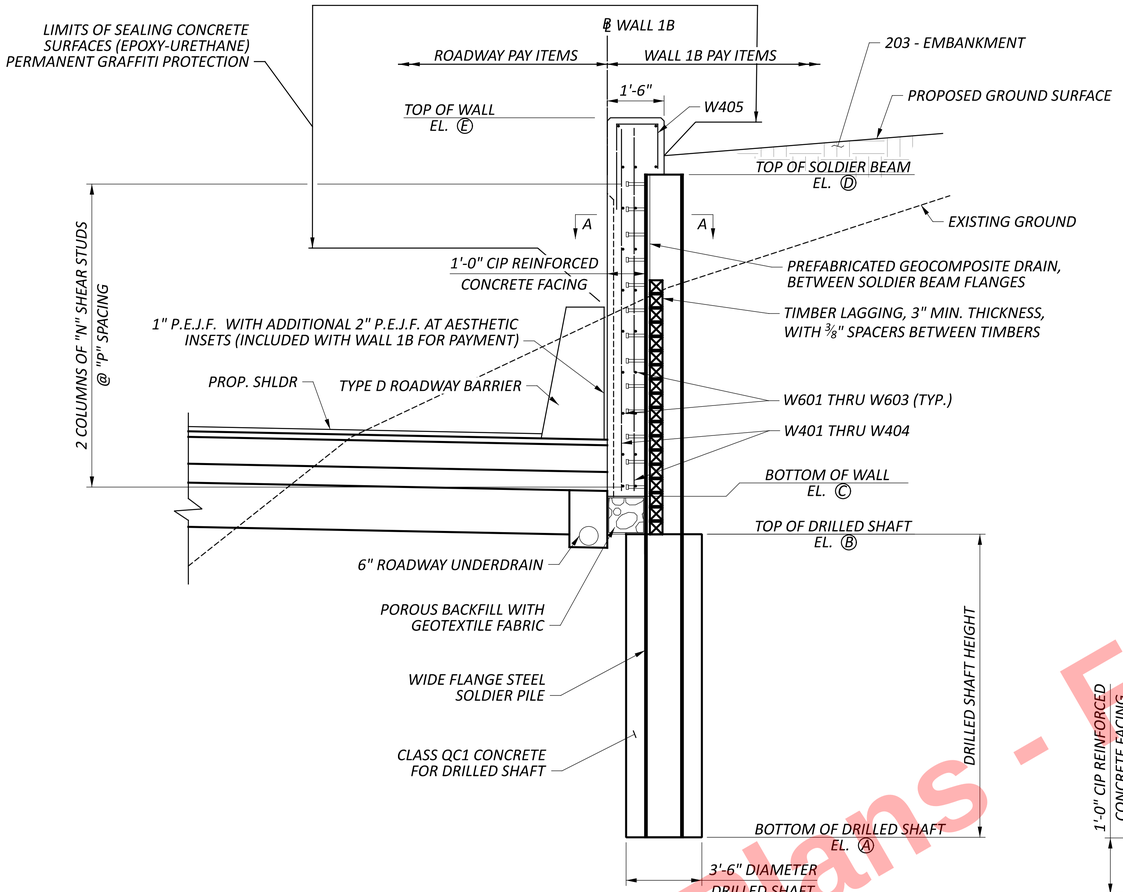
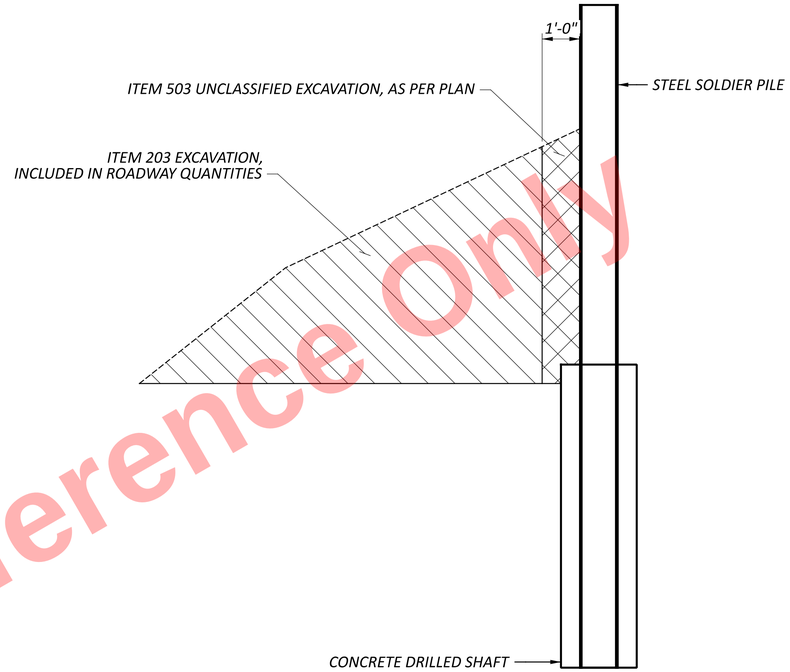
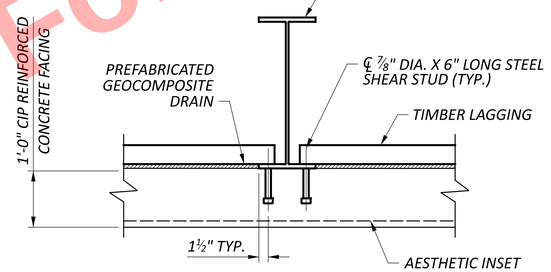


WALL 1B TYPICAL SECTION



EXCAVATION SCHEMATIC



SECTION A-A

PILE AND DRILLED SHAFT SIZE AND DIMENSION TABLE

DRILLED SHAFT NUMBER	WALL 1B STATION	OFFSET	BOTT. OF SHAFT ELEVATION (EL. A)	TOP OF SHAFT ELEVATION (EL. B)	BOTT. OF WALL ELEVATION (EL. C)	TOP OF SOLDIER BEAM ELEV. (EL. D)	TOP OF WALL ELEVATION (EL. E)	LENGTH OF SOLDIER BEAM (FEET)	DRILLED SHAFT DIAMETER (INCHES)	SOLDIER BEAM SIZE	NUM. OF SHEAR STUD PAIRS (N)	SPACING OF SHEAR STUDS (P)
1	10+03.24	2.37 LT	658.47	693.47	694.47	713.18	715.18	54.71	42.00	W30X211	20	11.50 in
2	10+09.82	2.37 LT	658.47	693.47	694.47	713.11	715.11	54.64	42.00	W30X211	20	11.25 in
3	10+16.40	2.37 LT	658.47	693.47	694.47	713.03	715.03	54.56	42.00	W30X211	20	11.25 in
4	10+22.99	2.37 LT	658.47	693.47	694.47	712.96	714.96	54.49	42.00	W30X211	19	11.75 in
5	10+29.57	2.37 LT	658.47	693.47	694.47	712.88	714.88	54.41	42.00	W30X211	19	11.75 in
6	10+36.15	2.37 LT	658.47	693.47	694.47	712.81	714.81	54.34	42.00	W30X211	19	11.75 in
7	10+42.74	2.37 LT	658.47	693.47	694.47	712.73	714.73	54.26	42.00	W30X211	19	11.75 in
8	10+49.32	2.37 LT	658.47	693.47	694.47	712.66	714.66	54.19	42.00	W30X211	19	11.75 in
9	10+55.90	2.37 LT	658.47	693.47	694.47	712.58	714.58	54.11	42.00	W30X211	19	11.50 in
10	10+62.49	2.37 LT	658.47	693.47	694.47	712.51	714.51	54.04	42.00	W30X211	19	11.50 in
11	10+69.07	2.37 LT	658.47	693.47	694.47	712.43	714.43	53.96	42.00	W30X211	19	11.50 in
12	10+75.65	2.37 LT	658.47	693.47	694.47	712.36	714.36	53.89	42.00	W30X211	19	11.50 in
13	10+82.44	2.37 LT	658.47	693.47	694.47	712.28	714.28	53.81	42.00	W30X211	19	11.50 in
14	10+89.44	2.37 LT	658.47	693.47	694.47	712.20	714.20	53.73	42.00	W30X211	19	11.25 in
15	10+96.44	2.37 LT	658.47	693.47	694.47	712.12	714.12	53.65	42.00	W30X211	19	11.25 in
16	11+03.44	2.37 LT	658.47	693.47	694.47	712.04	714.04	53.57	42.00	W30X211	19	11.25 in

NOTES:

1. AT THE CONTRACTOR'S OPTION, THE SOLDIER BEAM SIZE MAY BE INCREASED AT NO ADDITIONAL COST TO THE DEPARTMENT. THE PROPOSED BEAM SIZE MUST HAVE A SECTION MODULUS EQUAL TO OR GREATER THAN THE BEAM SIZE SPECIFIED. IN ADDITION, THE PROPOSED BEAM MUST ALLOW AT LEAST 3 INCHES OF CLEARANCE BETWEEN THE FLANGES AND THE SIDE OF THE DRILLED SHAFT.
2. THE NOMINAL CONCRETE FACING THICKNESS IS 12 INCHES. TO ADDRESS MISALIGNMENT OF SOLDIER BEAMS, THE CONTRACTOR MAY PROVIDE ADDITIONAL THICKNESS BUT AT NO ADDITIONAL COST TO THE DEPARTMENT.
3. INSTALL THE PREFABRICATED GEOCOMPOSITE DRAIN (PGD) BETWEEN SOLDIER BEAMS IN ACCORDANCE WITH CMS 518.06. WHERE TIMBER LAGGING IS PLACED, THE PGD SHALL BE SECURED TO THE LAGGING. IF LAGGING IS NOT REQUIRED BECAUSE THE PORTION OF THE WALL IS ABOVE THE EXISTING GROUND, THE PGD SHALL BE ATTACHED TO THE BACK SURFACE OF THE CONCRETE WALL FACING. THE PGD SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BELOW THE WALL FACING.
4. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/10.
5. FOR WALL FACING ELEVATIONS, SEE SHEETS 6/10 AND 7/10.

Preliminary Plans - For Reference Only

TYPICAL SECTION AND PILE AND DRILLED SHAFT SIZE AND DIMENSION TABLE
RETAINING WALL 1B

DESIGN AGENCY TRC
DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 8 TOTAL 10
SHEET P.850 TOTAL P.1269

CUY-77-11.41 - PART 1

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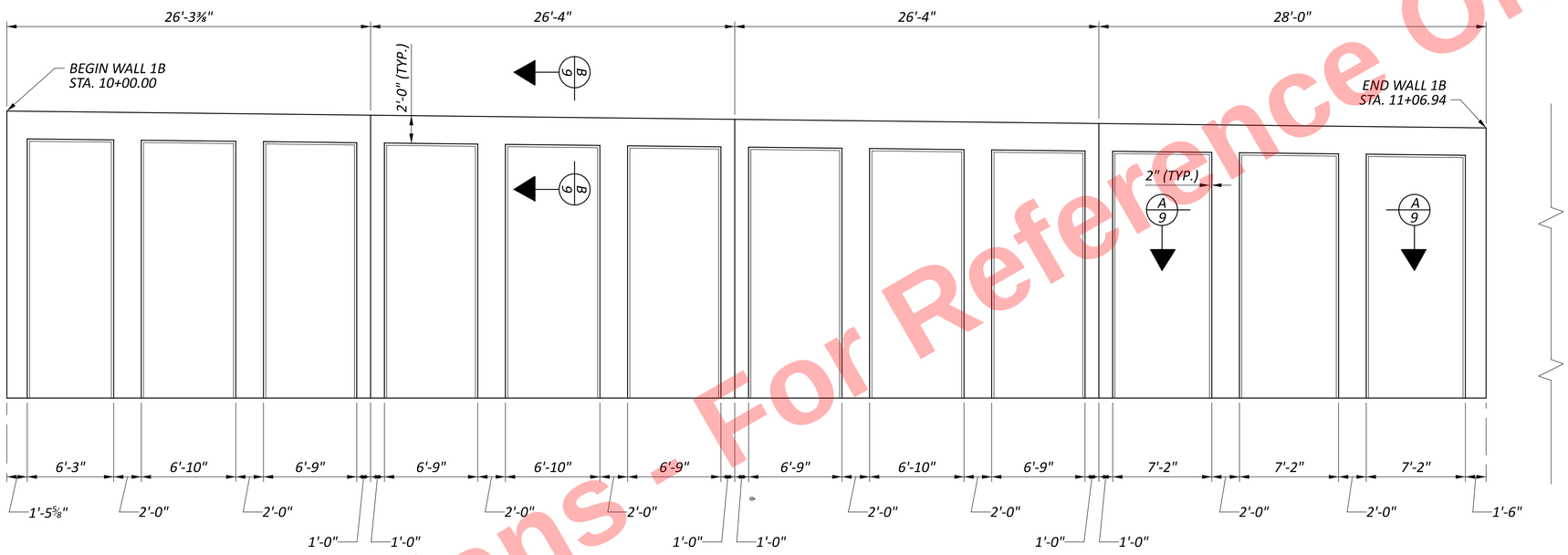
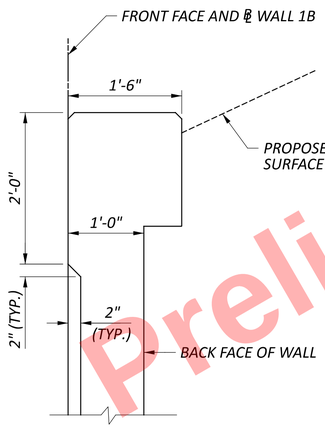
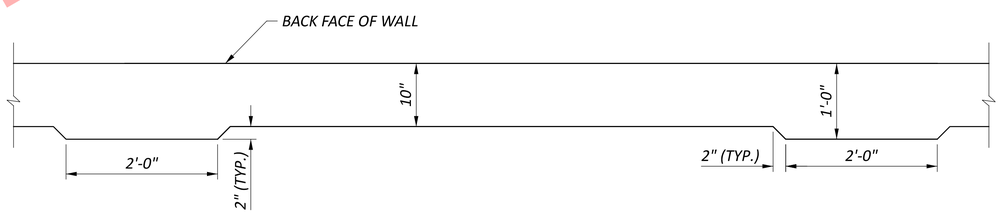


AESTHETIC WALL FACING ELEVATION



SECTION B-B



SECTION A-A

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. PAYMENT FOR ALL FORMWORK, MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO PRODUCE THE AESTHETIC WALL FACING PATTERN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 511, CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN.
3. FOR WALL FACING ELEVATIONS, SEE SHEETS 6/10 AND 7/10.

Preliminary Plans - For Reference Only

AESTHETIC DETAILS
RETAINING WALL 1B

DESIGN AGENCY
TRC

DESIGNER
CEJ

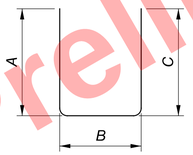
REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 9 | TOTAL 10

SHEET P.851 | TOTAL P.1269

MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
W401	54	20'-1"	724	STR							
W402	54	19'-9"	712	STR							
W403	54	19'-6"	703	STR							
W404	58	19'-2"	743	STR							
W405	110	4'-7"	331	2	2'-3"	1'-0"	1'-6"				
W601	40	25'-11"	1557	STR							
W602	82	26'-0"	3202	STR							
W603	38	27'-8"	1579	STR							
TOTAL			9,551								



TYPE-2

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. ALL REINFORCING STEEL TO BE EPOXY COATED.

Preliminary Plans - For Reference Only

REINFORCING STEEL LIST
RETAINING WALL 1B

DESIGN AGENCY TRC
DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 10 | TOTAL 10
SHEET P.852 | TOTAL P.1269

CUY-77-11.41 - PART 1

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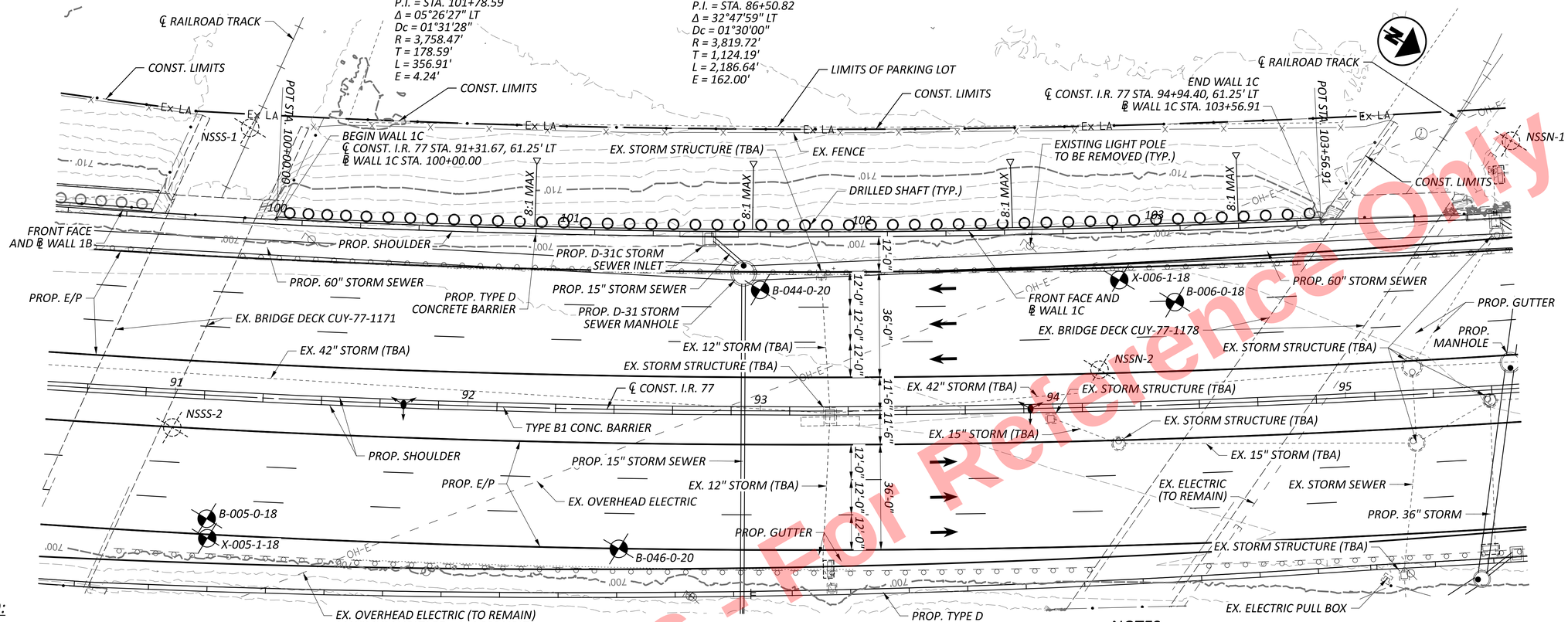
Preliminary Plans - For Reference Only

CURVE DATA WALL 1C
P.I. = STA. 101+78.59
Δ = 05°26'27" LT
Dc = 01°31'28"
R = 3,758.47'
T = 178.59'
L = 356.91'
E = 4.24'

CURVE DATA I.R. 77
P.I. = STA. 86+50.82
Δ = 32°47'59" LT
Dc = 01°30'00"
R = 3,819.72'
T = 1,124.19'
L = 2,186.64'
E = 162.00'



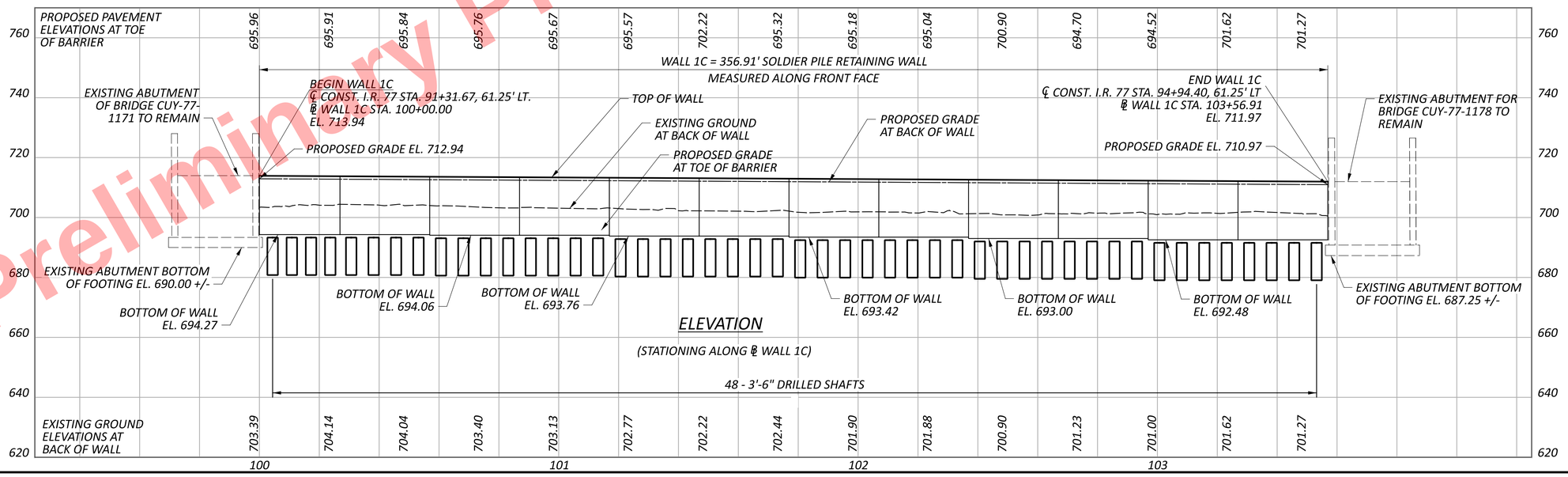
PLAN

LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION
- HISTORIC SOIL BORING LOCATION

NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A AND 1B.



ELEVATION

SITE PLAN
RETAINING WALL 1C

CUY-77-11.41 - PART 1

DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 1 | TOTAL: 14
SHEET: P.853 | TOTAL: P.1269

MODEL: WALL 1C ALIGNMENT - WALL 1C (Sheet) PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:31:02 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 10TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

EPOXY COATED REINFORCING STEEL - MIN. YIELD STRENGTH 60 KSI

STEEL SOLDIER PILES - ASTM A572 - YIELD STRENGTH 50 KSI

ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W33x211

THIS WORK CONSISTS OF FURNISHING AND PLACING STEEL SOLDIER PILES INTO DRILLED HOLES. FURNISH SOLDIER PILES CONSISTING OF STRUCTURAL STEEL MEMBERS THAT MEET THE PLAN REQUIREMENTS AND CONFORM TO ASTM A572, GRADE 50. DO NOT FIELD WELD OR SPLICE STEEL SOLDIER PILES.

THE DEPARTMENT WILL MEASURE SOLDIER PILES ALONG THE AXIS OF THE SOLDIER PILE FROM THE TOP OF WALL ELEVATION TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER. THE DEPARTMENT WILL PAY FOR SOLDIER PILES AT THE CONTRACT UNIT PRICE PER FOOT FOR ITEM 507, STEEL PILES, MISC.: SOLDIER PILES, W33x211

ITEM 512 - TYPE 2 WATERPROOFING, AS PER PLAN

PLACE WATERPROOFING MEMBRANE AT THE LOCATIONS OF THE PROPOSED JOINTS IN THE CONCRETE WALL FACING. PLACE THE WATERPROOFING MEMBRANE OVER THE PGD AND SECURELY ATTACH TO THE TIMBER LAGGING WITH SCREWS AND 1-INCH OUTER DIAMETER FENDER WASHERS. PLACE THE MEMBRANE SO THAT THE ADHESIVE SIDE FACES THE CAST-IN-PLACE CONCRETE. THE SURFACE PREPARATION DESCRIBED IN C&MS 512.08 IS NOT REQUIRED.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

ITEM 512 - SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION)

APPLY A PERMANENT GRAFFITI COATING QUALIFIED ACCORDING TO S1083 THAT IS COMPATIBLE WITH THE CONCRETE SEALER OVER WHICH IT IS APPLIED. APPLY THE GRAFFITI COATING IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.

ITEM 513 - WELDED STUD SHEAR CONNECTORS, AS PER PLAN

SOLDIER PILES WHICH REQUIRE HEADED STUDS ARE SHOWN IN THE TABLE ON SHEET 14/16. WELD HEADED STEEL STUDS TO THE FLANGES OF THE SOLDIER PILE IN ORDER TO CONNECT THE CAST-IN-PLACE CONCRETE WALL FACING TO THE SOLDIER PILE. ATTACH HEADED STUDS ACCORDING TO C&MS 513.22 AND AS SHOWN IN THE PLANS. THE CONTRACTOR MAY ATTACH THE STUDS EITHER BEFORE PLACING THE SOLDIER PILE IN THE DRILLED HOLE OR AFTER EXCAVATING IN FRONT OF THE WALL. PROTECT THE HEADED STUDS FROM DAMAGE UNTIL THE CONCRETE WALL FACING IS POURED. REPAIR OR REPLACE DAMAGED HEADED STUDS AT NO EXPENSE TO THE DEPARTMENT.

ITEM 524 - DRILLED SHAFT, 42" DIAMETER ABOVE BEDROCK, AS PER PLAN

THIS WORK CONSISTS OF FURNISHING AND INSTALLING DRILLED SHAFTS FOR SOLDIER PILE AND LAGGING WALLS. THE DRILLED SHAFTS ARE REINFORCED WITH SOLDIER PILES INSTEAD OF REINFORCING STEEL CAGES. THE SOLDIER PILES EXTEND ABOVE THE TOP OF THE DRILLED SHAFT. FURNISH AND INSTALL THE DRILLED SHAFTS ACCORDING TO C&MS 524 EXCEPT AS MODIFIED AND SUPPLEMENTED BELOW.

EXCAVATE THE HOLE FOR THE DRILLED SHAFT WITHIN 3 INCHES OF THE PLAN LOCATION. PLACE THE SOLDIER PILE WITHIN THE HOLE SO IT IS VERTICAL AND NOT INCLINED MORE THAN 1 INCH BETWEEN TOP AND BOTTOM. PLACE THE SOLDIER PILE SO THAT THE FLANGES ARE PARALLEL TO THE CENTERLINE OF THE ROW OF DRILLED SHAFTS. DO NOT ALLOW THE ORIENTATION OF THE FLANGES TO VARY BY MORE THAN 10 DEGREES. SUPPORT THE SOLDIER PILE SO THAT IT DOES NOT MOVE DURING CONCRETE PLACEMENT.

USE CLASS QC1 CONCRETE ACCORDING TO C&MS 511. PLACE CONCRETE TO THE ELEVATION FOR THE TOP OF THE DRILLED SHAFT. THE CONTRACTOR MAY PLACE CONCRETE USING THE FREE FALL METHOD PROVIDED THE DEPTH OF WATER IS LESS THAN 6 INCHES AND THE CONCRETE FALLS WITHOUT STRIKING THE SIDES OF THE HOLE. POURING CONCRETE ALONG THE WEB OF THE SOLDIER PILE IS ACCEPTABLE.

CHECK THE POSITION, THE VERTICAL ALIGNMENT AND ORIENTATION OF THE SOLDIER PILE IMMEDIATELY AFTER CONCRETE PLACEMENT. MAKE CORRECTIONS AS NECESSARY TO MEET THE ABOVE TOLERANCES.

FILL THE HOLE ABOVE THE BOTTOM OF THE LAGGING TO THE EXISTING GROUND SURFACE WITH ITEM 613 LOW STRENGTH MORTAR BACKFILL (LSM).

REMOVE CONCRETE AND LSM AS NECESSARY FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE THE LAGGING. PLACE THE LAGGING SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING. WAIT AT LEAST 12 HOURS AFTER PLACING CONCRETE IN THE DRILLED SHAFTS BEFORE PLACING LAGGING.

SEQUENCE OF INSTALLATION: INSTALL THE DRILLED SHAFTS IN A SEQUENCE SUCH THAT NO DRILLED SHAFT IS INSTALLED ADJACENT TO EITHER AN OPEN DRILLED SHAFT EXCAVATION OR A DRILLED SHAFT IN WHICH THE CONCRETE HAS LESS THAN A 48 HOUR CURE. INSTALLING THE SHAFTS IN AN ALTERNATING SEQUENCE OR ANY OTHER SEQUENCE THAT MEETS THIS CRITERIA IS PERMISSIBLE.

PROTECTION OF UNATTENDED OPEN SHAFTS: COVER UNATTENDED OPEN SHAFTS. USE TEMPORARY COVERS OF ADEQUATE STRENGTH TO PREVENT A PERSON OR ANIMAL FROM FALLING IN. LEAVE NO DRILLED SHAFT EXCAVATION UN-POURED OVERNIGHT.

THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHOD USED TO CONSTRUCT THE DRILLED SHAFTS AND PLACE LAGGING. ANY TEMPORARY GRADING, EXCAVATION, EMBANKMENT, AGGREGATE, DRAINAGE, SHEETING, ETC. NEEDED TO COMPLETE THE WORK IS INCLUDED IN THE BID PRICE FOR THE DRILLED SHAFTS. THE COST OF ANY EXCAVATION AND SUBSEQUENT REPLACEMENT OF EMBANKMENT (PER ITEM 203 EMBANKMENT) IS INCLUDED IN THE VARIOUS BID ITEMS FOR THE DRILLED SHAFTS AND LAGGING, UNLESS SEPARATELY ITEMIZED. NO SEPARATE PAYMENT WILL BE MADE.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE DRILLED SHAFTS ABOVE BEDROCK, AS PER PLAN, ALONG THE AXIS OF THE DRILLED SHAFT FROM THE EXISTING GROUND SURFACE TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER.

PAYMENT IS FULL COMPENSATION FOR CONSTRUCTING THE DRILLED SHAFTS, INCLUDING FURNISHING AND PLACING CONCRETE AND LSM, AND REMOVAL OF CONCRETE OR LSM FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE LAGGING.

ITEM SPECIAL - RETAINING WALL, MISC.: TIMBER LAGGING

THIS WORK CONSISTS OF FURNISHING AND PLACING TIMBER LAGGING BETWEEN THE SOLDIER PILES AS TEMPORARY SUPPORT FOR THE RETAINED SOIL. FURNISH TIMBER LAGGING CONSISTING OF CONSTRUCTION GRADE, UNTREATED HARDWOOD WITH A MINIMUM THICKNESS OF 3 INCHES. TO PERMIT DRAINAGE, PROVIDE 1/4 TO 1/2-INCH SPACES BETWEEN LAGGING BOARDS USING 3/8-INCH THICK SPACER BLOCKS OR OTHER MEANS ACCEPTABLE TO THE ENGINEER. PLACE THE LAGGING BOARDS BETWEEN THE FLANGES OF THE SOLDIER PILES AND BEARING AGAINST THE FLANGES ON THE EXPOSED SIDE OF THE WALL SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING BOARDS. PERFORM EXCAVATION FOR PLACEMENT OF THE LAGGING IN SUCH A MANNER THAT THE LAGGING IS TIGHT AGAINST THE EXCAVATION CUT FACE. BACKFILL ANY VOIDS BEHIND THE LAGGING WITH A SUITABLE COMPACTED GRANULAR MATERIAL CONFORMING TO C&MS 703.16.C, ACCEPTABLE TO THE ENGINEER. THE COST OF ANY SUCH BACKFILLING REQUIRED, INCLUDING MATERIAL, PLACEMENT AND COMPACTION, IS INCIDENTAL TO THE COST OF LAGGING.

THE DEPARTMENT WILL PAY FOR TIMBER LAGGING AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR ITEM SPECIAL, RETAINING WALL, TIMBER LAGGING.

ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

℄ - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

Preliminary Plans - For Reference Only

GENERAL NOTES
RETAINING WALL 1C

DESIGN AGENCY
TRC

DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 2 | TOTAL 14
SHEET P.854 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:31:20 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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ESTIMATED QUANTITIES (WALL 1C)

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
503	21101	131	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN	11
507	00400	2663	FT	STEEL PILES, MISC.: SOLDIER PILES, W30x211	2
509	10000	31238	LB	EPOXY COATED STEEL REINFORCEMENT	
511	46013	271	CY	CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN	11
512	10001	665	SY	SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION)	2
512	10101	665	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	2
512	33001	67	SY	TYPE 2 WATERPROOFING, AS PER PLAN	2
513	20001	1768	EACH	WELDED STUD SHEAR CONNECTORS, AS PER PLAN	2
516	13600	1311	SF	1" PREFORMED EXPANSION JOINT FILLER	
516	13900	1035	SF	2" PREFORMED EXPANSION JOINT FILLER	
518	20000	693	SY	PREFABRICATED GEOCOMPOSITE DRAIN	
518	21200	14	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
524	94803	1680	FT	DRILLED SHAFTS, 42" DIAMETER, ABOVE BEDROCK, AS PER PLAN	2
SPECIAL	53051020	3369	SF	RETAINING WALL, TIMBER LAGGING	2

Preliminary Plans - For Reference Only

ESTIMATED QUANTITIES
RETAINING WALL 1C

CUY-77-11.41 - PART 1

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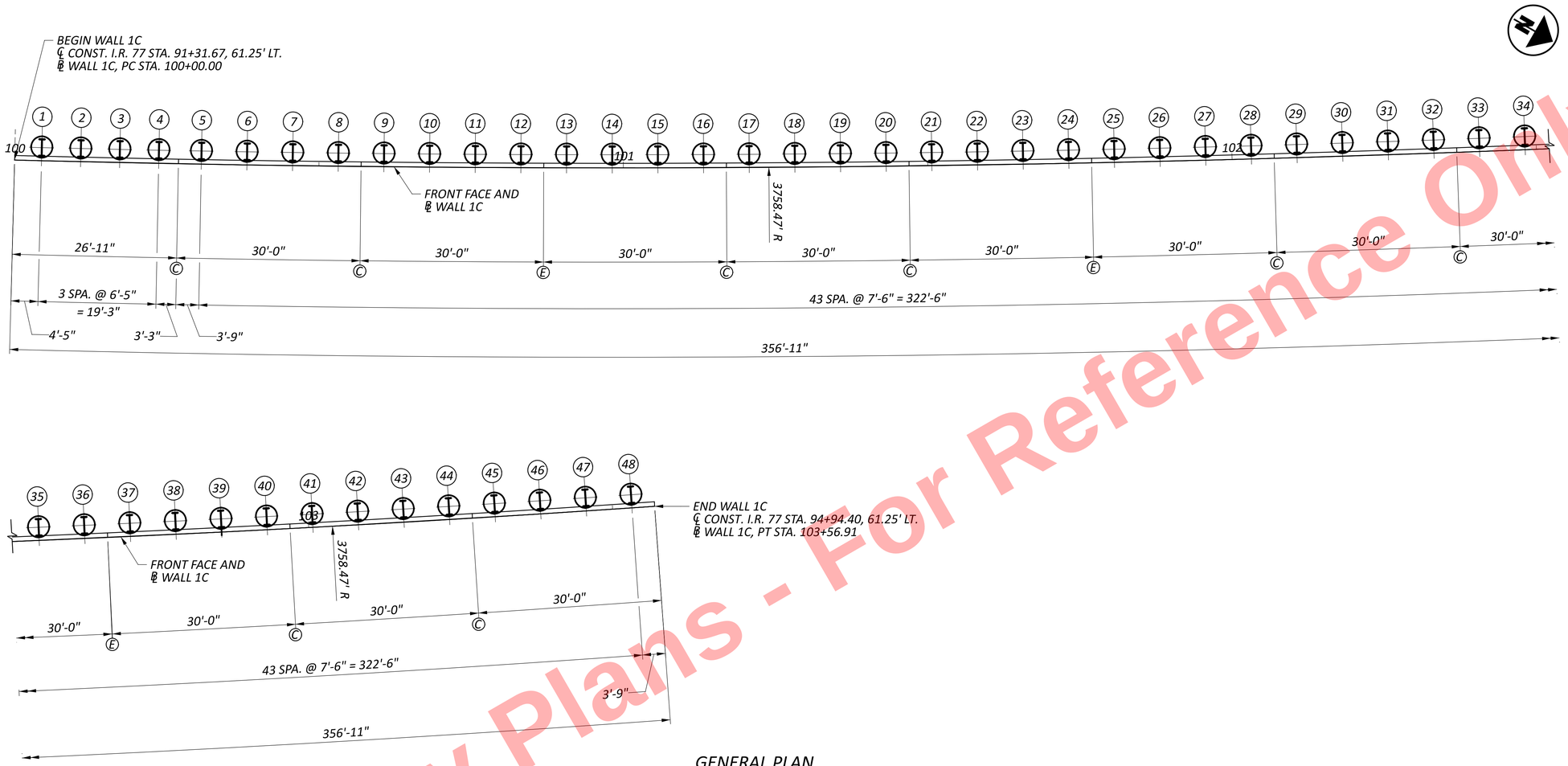
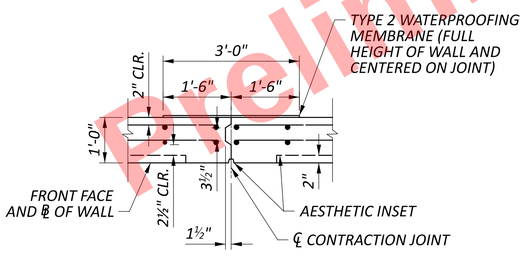
DESIGN AGENCY TRC
DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 3 | TOTAL 14
SHEET P.855 | TOTAL P.1269

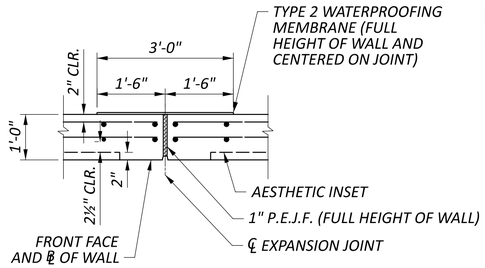


GENERAL PLAN

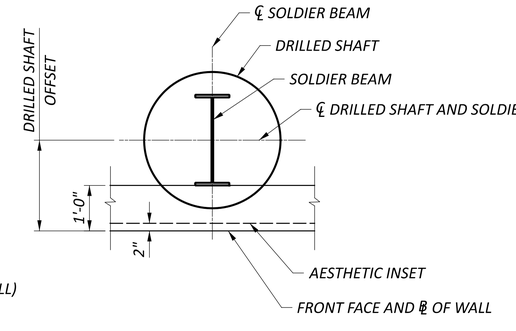
(DIMENSIONS ARE MEASURED ALONG FRONT FACE OF WALL)



CONTRACTION JOINT DETAIL



EXPANSION JOINT DETAIL



DRILLED SHAFT LOCATION DETAIL

LEGEND:

- (1) - DENOTES DRILLED SHAFT WITH SOLDIER BEAM.
- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

NOTE:

1. FOR WALL ELEVATION VIEW, SEE SHEETS 5/14 THRU 10/14.
2. FOR SIZES AND OFFSET DIMENSIONS OF DRILLED SHAFTS AND SOLDIER BEAMS, SEE SHEET 12/14.
3. FOR AESTHETIC DETAILS, SEE SHEET 13/14.

Preliminary Plans - For Reference Only

PILE LAYOUT AND GEOMETRY SCHEMATIC
RETAINING WALL 1C

DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 4 | TOTAL: 14
SHEET: P.856 | TOTAL: P.1269

CUY-77-11.41 - PART 1

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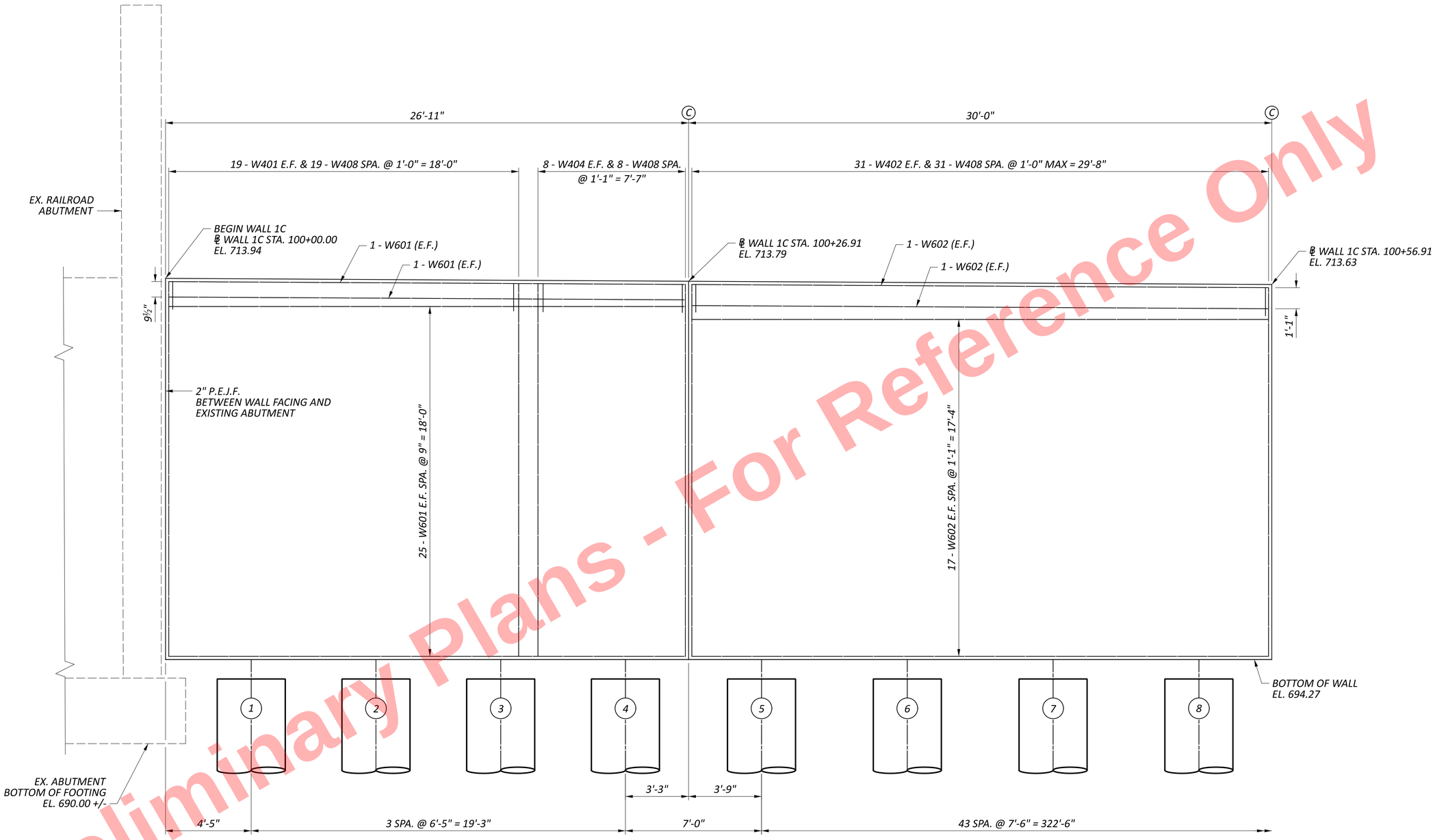

Preliminary Plans - For Reference Only

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

PARTIAL ELEVATION

LEGEND:

- Ⓝ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.

WALL ELEVATION
RETAINING WALL 1C

DESIGN AGENCY: TRC

DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 5 TOTAL: 14
SHEET: P.857 TOTAL: P.1269

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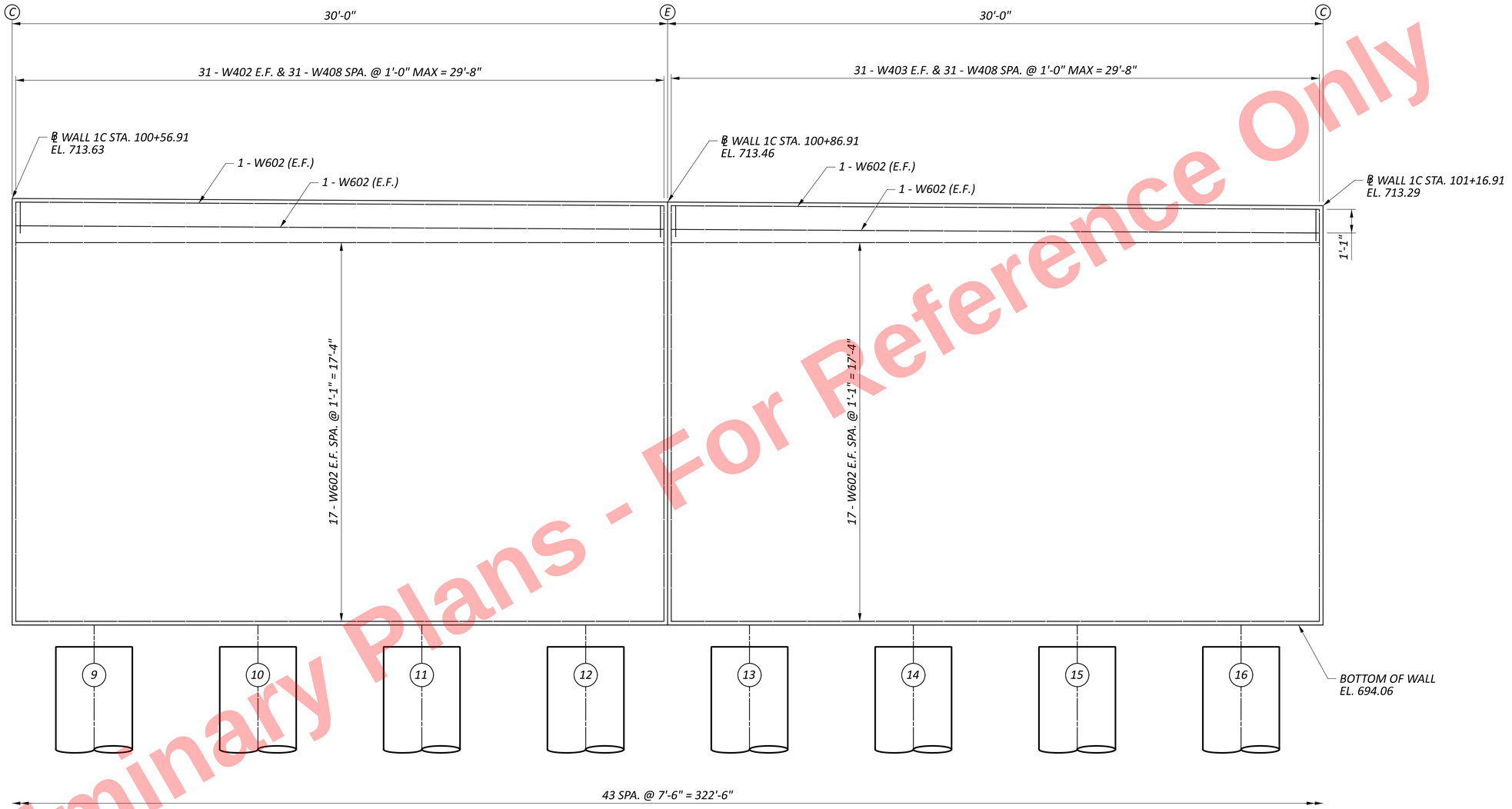


PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- Ⓝ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

NOTES:

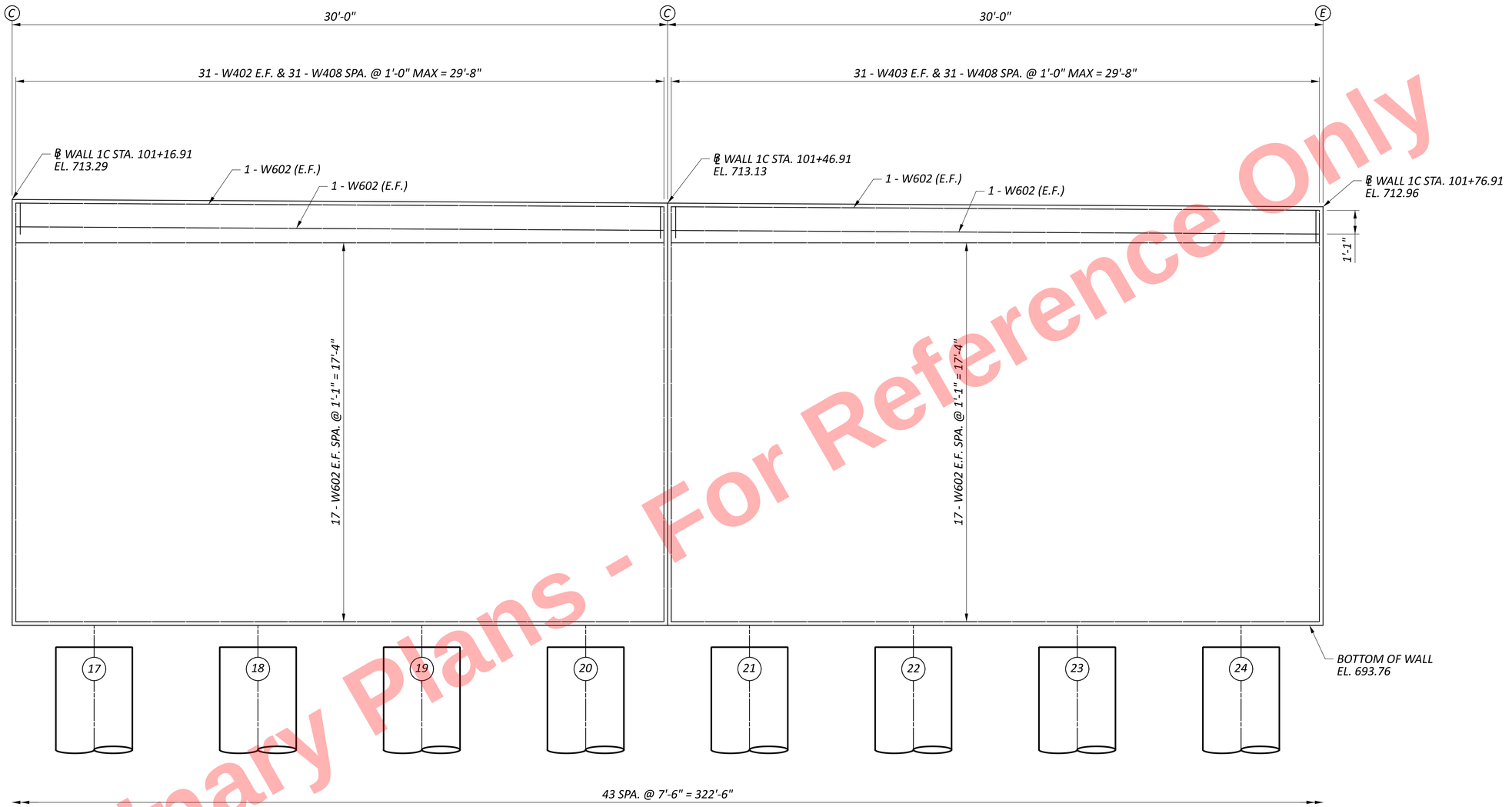
1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.

Preliminary Plans - For Reference Only

WALL ELEVATION
RETAINING WALL 1C

DESIGN AGENCY
TRC

DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 6 | TOTAL 14
SHEET P.858 | TOTAL P.1269



PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- Ⓝ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.

Preliminary Plans - For Reference Only

WALL ELEVATION
RETAINING WALL 1C

DESIGN AGENCY
TRC

DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 7 TOTAL 14
SHEET P.859 TOTAL P.1269

CUY-77-11.41 - PART 1

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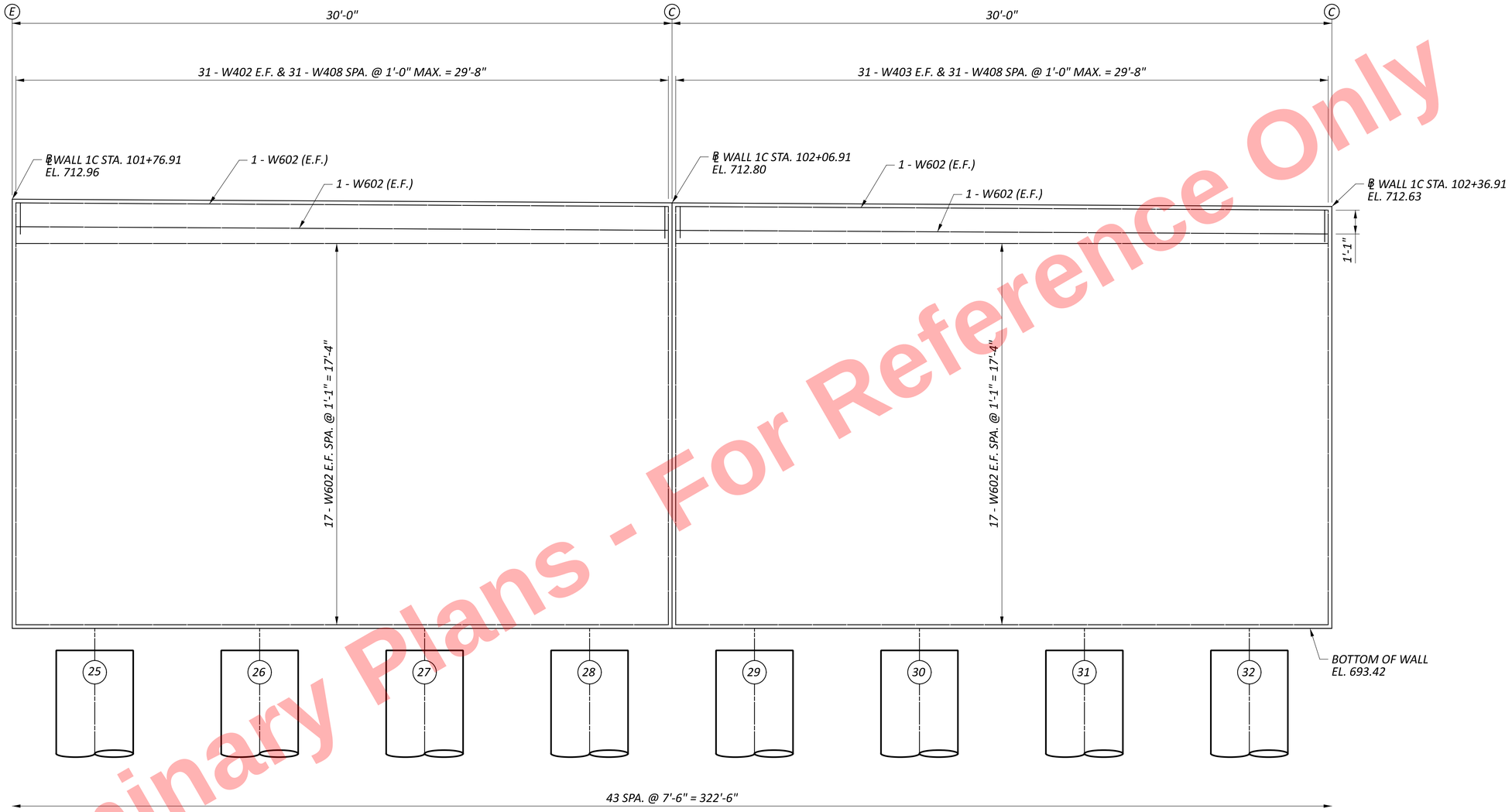

PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.

Preliminary Plans - For Reference Only

WALL ELEVATION
RETAINING WALL 1C

DESIGN AGENCY
TRC

DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 8 | TOTAL 14
SHEET P.860 | TOTAL P.1269

CUY-77-11.41 - PART 1

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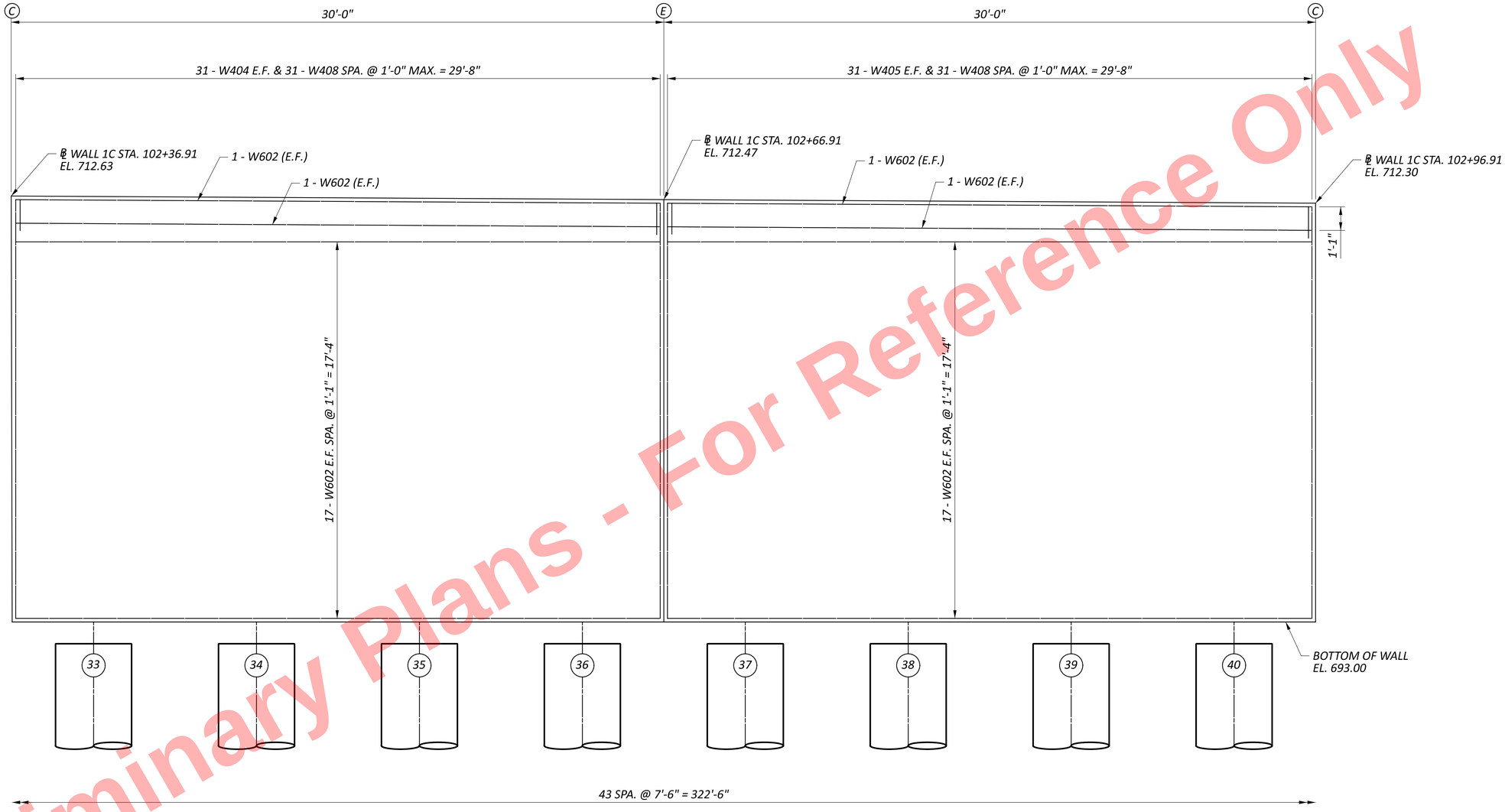

PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- ⑯ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.

Preliminary Plans - For Reference Only

WALL ELEVATION
RETAINING WALL 1C

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 9 | TOTAL 14

SHEET P.861 | TOTAL P.1269

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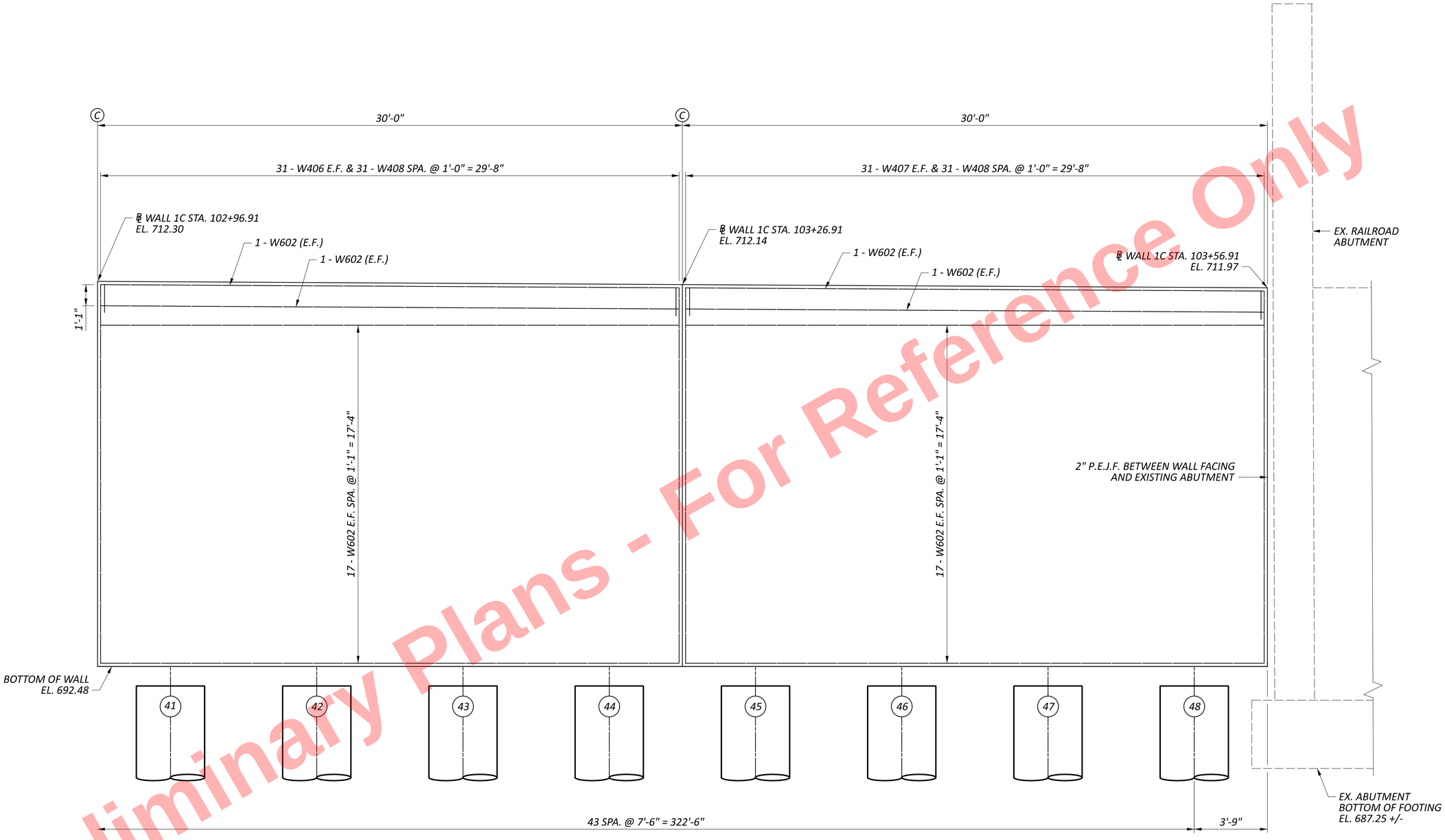
CUY-77-11.41 - PART 1



PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- Ⓝ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

NOTES:

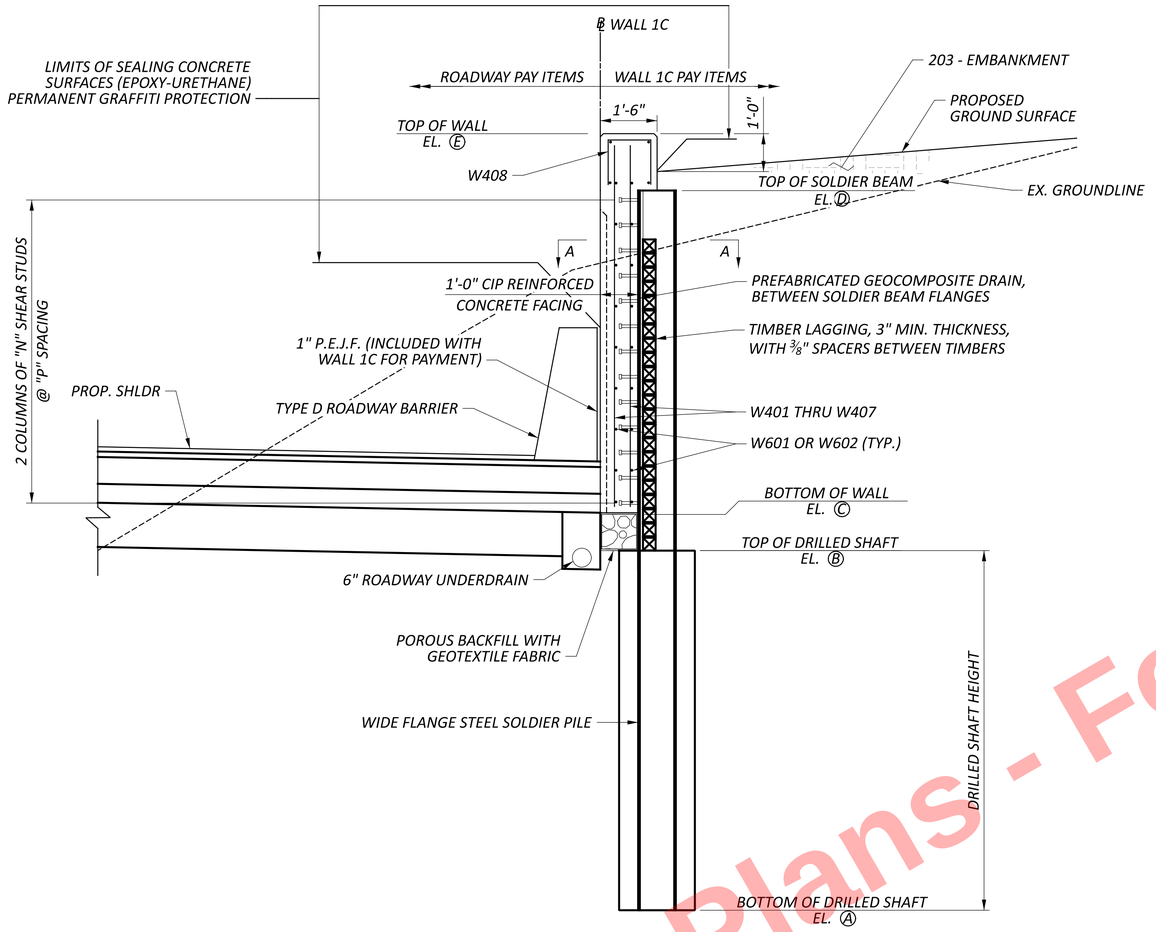
1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.

Preliminary Plans - For Reference Only

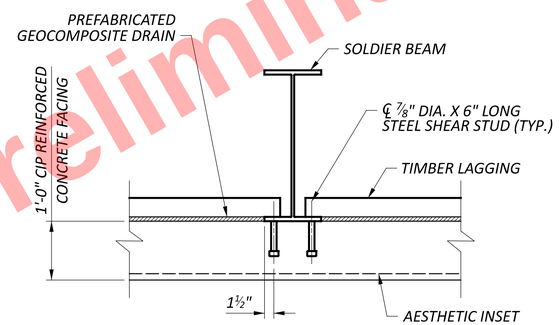
WALL ELEVATION
RETAINING WALL 1C

DESIGN AGENCY
TRC

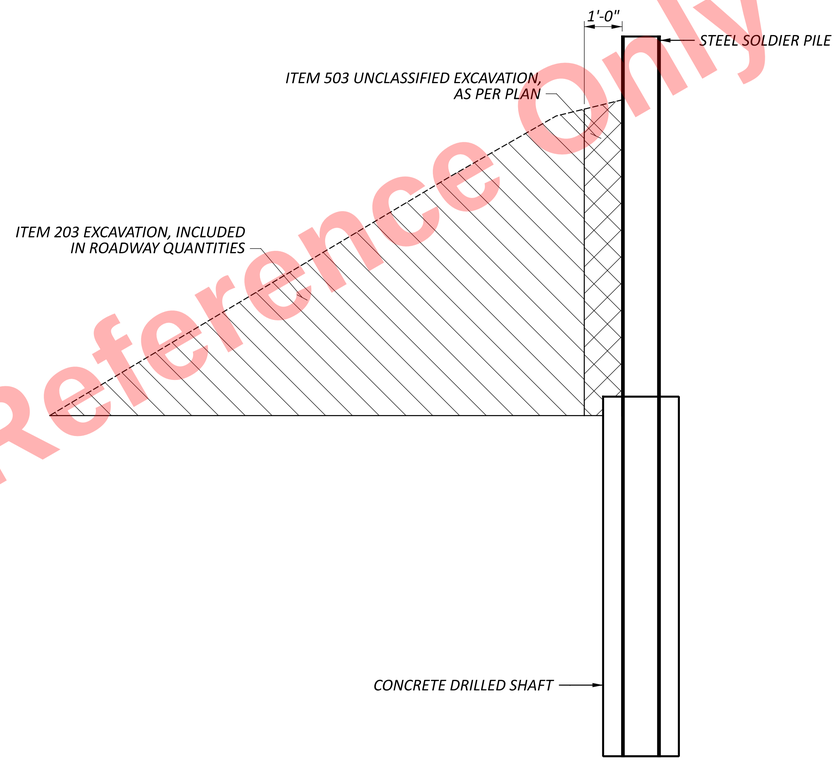
DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	10
TOTAL	14
SHEET	P.862
TOTAL	P.1269



WALL 1C TYPICAL SECTION



SECTION A-A



EXCAVATION SCHEMATIC

NOTES:

1. AT THE CONTRACTOR'S OPTION, THE SOLDIER BEAM SIZE MAY BE INCREASED AT NO ADDITIONAL COST TO THE DEPARTMENT. THE PROPOSED BEAM SIZE MUST HAVE A SECTION MODULUS EQUAL TO OR GREATER THAN THE BEAM SIZE SPECIFIED. IN ADDITION, THE PROPOSED BEAM MUST ALLOW AT LEAST 3 INCHES OF CLEARANCE BETWEEN THE FLANGES AND THE SIDE OF THE DRILLED SHAFT.
2. THE NOMINAL CONCRETE FACING THICKNESS IS 12 INCHES. TO ADDRESS MISALIGNMENT OF SOLDIER BEAMS, THE CONTRACTOR MAY PROVIDE ADDITIONAL THICKNESS BUT AT NO ADDITIONAL COST TO THE DEPARTMENT.
3. INSTALL THE PREFABRICATED GEOCOMPOSITE DRAIN (PGD) BETWEEN SOLDIER BEAMS IN ACCORDANCE WITH CMS 518.06. WHERE TIMBER LAGGING IS PLACED, THE PGD SHALL BE SECURED TO THE LAGGING. IF LAGGING IS NOT REQUIRED BECAUSE THE PORTION OF THE WALL IS ABOVE THE EXISTING GROUND, THE PGD SHALL BE ATTACHED TO THE BACK SURFACE OF THE CONCRETE WALL FACING. PGD SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BELOW THE WALL FACING.
4. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.
5. FOR PILE AND DRILLED SHAFT DIMENSIONS AND ELEVATIONS, SEE SHEET 12/14.

Preliminary Plans - For Reference Only

TYPICAL SECTION
RETAINING WALL 1C

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 11 | TOTAL 14

SHEET P.863 | TOTAL P.1269

CUY-77-11.41 - PART 1

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DRILLED SHAFT NUMBER	WALL 1C STATION	OFFSET	BOTT. OF SHAFT ELEVATION (EL. A)	TOP OF SHAFT ELEVATION (EL. B)	BOTT. OF WALL ELEVATION (EL. C)	TOP OF SOLDIER BEAM ELEV. (EL. D)	TOP OF WALL ELEVATION (EL. E)	LENGTH OF SOLDIER BEAM (FEET)	DRILLED SHAFT DIAMETER (INCHES)	SOLDIER BEAM SIZE	NUM. OF SHEAR STUD PAIRS (N)	SPACING OF SHEAR STUDS (P)
1	100+04.41	2.37 LT	658.27	693.27	694.27	711.92	713.92	53.65	42.00	W30X211	19	11.25 in
2	100+10.83	2.37 LT	658.27	693.27	694.27	711.88	713.88	53.61	42.00	W30X211	19	11.25 in
3	100+17.25	2.37 LT	658.27	693.27	694.27	711.84	713.84	53.57	42.00	W30X211	19	11.25 in
4	100+23.66	2.37 LT	658.27	693.27	694.27	711.81	713.81	53.54	42.00	W30X211	19	11.25 in
5	100+30.66	2.37 LT	658.27	693.27	694.27	711.77	713.77	53.50	42.00	W30X211	19	11.25 in
6	100+38.16	2.37 LT	658.27	693.27	694.27	711.73	713.73	53.46	42.00	W30X211	18	11.75 in
7	100+45.66	2.37 LT	658.27	693.27	694.27	711.69	713.69	53.42	42.00	W30X211	18	11.75 in
8	100+53.16	2.37 LT	658.27	693.27	694.27	711.65	713.65	53.38	42.00	W30X211	18	11.75 in
9	100+60.66	2.37 LT	658.06	693.06	694.06	711.61	713.61	53.55	42.00	W30X211	19	11.25 in
10	100+68.16	2.37 LT	658.06	693.06	694.06	711.56	713.56	53.50	42.00	W30X211	19	11.25 in
11	100+75.66	2.37 LT	658.06	693.06	694.06	711.52	713.52	53.46	42.00	W30X211	18	11.75 in
12	100+83.16	2.37 LT	658.06	693.06	694.06	711.48	713.48	53.42	42.00	W30X211	18	11.75 in
13	100+90.66	2.37 LT	658.06	693.06	694.06	711.44	713.44	53.38	42.00	W30X211	18	11.75 in
14	100+98.16	2.37 LT	658.06	693.06	694.06	711.40	713.40	53.34	42.00	W30X211	18	11.75 in
15	101+05.66	2.37 LT	658.06	693.06	694.06	711.36	713.36	53.30	42.00	W30X211	18	11.75 in
16	101+13.16	2.37 LT	658.06	693.06	694.06	711.32	713.32	53.26	42.00	W30X211	18	11.75 in
17	101+20.66	2.37 LT	657.76	692.76	693.76	711.27	713.27	53.51	42.00	W30X211	19	11.25 in
18	101+28.16	2.37 LT	657.76	692.76	693.76	711.23	713.23	53.47	42.00	W30X211	18	11.75 in
19	101+35.66	2.37 LT	657.76	692.76	693.76	711.19	713.19	53.43	42.00	W30X211	18	11.75 in
20	101+43.16	2.37 LT	657.76	692.76	693.76	711.15	713.15	53.39	42.00	W30X211	18	11.75 in
21	101+50.66	2.37 LT	657.76	692.76	693.76	711.11	713.11	53.35	42.00	W30X211	18	11.75 in
22	101+58.16	2.37 LT	657.76	692.76	693.76	711.07	713.07	53.31	42.00	W30X211	18	11.75 in
23	101+65.66	2.37 LT	657.76	692.76	693.76	711.03	713.03	53.27	42.00	W30X211	18	11.75 in
24	101+73.16	2.37 LT	657.76	692.76	693.76	710.98	712.98	53.22	42.00	W30X211	18	11.75 in
25	101+80.66	2.37 LT	657.42	692.42	693.42	710.94	712.94	53.52	42.00	W30X211	19	11.25 in
26	101+88.16	2.37 LT	657.42	692.42	693.42	710.90	712.90	53.48	42.00	W30X211	18	11.75 in
27	101+95.66	2.37 LT	657.42	692.42	693.42	710.86	712.86	53.44	42.00	W30X211	18	11.75 in
28	102+03.16	2.37 LT	657.42	692.42	693.42	710.82	712.82	53.40	42.00	W30X211	18	11.75 in
29	102+10.66	2.37 LT	657.42	692.42	693.42	710.78	712.78	53.36	42.00	W30X211	18	11.75 in
30	102+18.16	2.37 LT	657.42	692.42	693.42	710.74	712.74	53.32	42.00	W30X211	18	11.75 in
31	102+25.66	2.37 LT	657.42	692.42	693.42	710.69	712.69	53.27	42.00	W30X211	18	11.75 in
32	102+33.16	2.37 LT	657.42	692.42	693.42	710.65	712.65	53.23	42.00	W30X211	18	11.75 in
33	102+40.66	2.37 LT	657.00	692.00	693.00	710.61	712.61	53.61	42.00	W30X211	19	11.25 in
34	102+48.16	2.37 LT	657.00	692.00	693.00	710.57	712.57	53.57	42.00	W30X211	19	11.25 in
35	102+55.66	2.37 LT	657.00	692.00	693.00	710.53	712.53	53.53	42.00	W30X211	19	11.25 in
36	102+63.16	2.37 LT	657.00	692.00	693.00	710.49	712.49	53.49	42.00	W30X211	18	11.75 in
37	102+70.66	2.37 LT	657.00	692.00	693.00	710.45	712.45	53.45	42.00	W30X211	18	11.75 in
38	102+78.16	2.37 LT	657.00	692.00	693.00	710.40	712.40	53.40	42.00	W30X211	18	11.75 in
39	102+85.66	2.37 LT	657.00	692.00	693.00	710.36	712.36	53.36	42.00	W30X211	18	11.75 in
40	102+93.16	2.37 LT	657.00	692.00	693.00	710.32	712.32	53.32	42.00	W30X211	18	11.75 in
41	103+00.66	2.37 LT	656.48	691.48	692.48	710.28	712.28	53.80	42.00	W30X211	19	11.50 in
42	103+08.16	2.37 LT	656.48	691.48	692.48	710.24	712.24	53.76	42.00	W30X211	19	11.50 in
43	103+15.66	2.37 LT	656.48	691.48	692.48	710.20	712.20	53.72	42.00	W30X211	19	11.25 in
44	103+23.16	2.37 LT	656.48	691.48	692.48	710.16	712.16	53.68	42.00	W30X211	19	11.25 in
45	103+30.66	2.37 LT	656.48	691.48	692.48	710.11	712.11	53.63	42.00	W30X211	19	11.25 in
46	103+38.16	2.37 LT	656.48	691.48	692.48	710.07	712.07	53.59	42.00	W30X211	19	11.25 in
47	103+45.66	2.37 LT	656.48	691.48	692.48	710.03	712.03	53.55	42.00	W30X211	19	11.25 in
48	103+53.16	2.37 LT	656.48	691.48	692.48	709.99	711.99	53.51	42.00	W30X211	19	11.25 in

Preliminary Plans For Reference Only

NOTES:

1. *FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.*
2. *FOR TYPICAL WALL SECTION, SEE SHEET 11/14.*
3. *FOR WALL FACING ELEVATIONS, SEE SHEETS 5/14 THRU 10/14.*

PILE AND DRILLED SHAFT SIZE AND DIMENSION TABLE RETAINING WALL 1C

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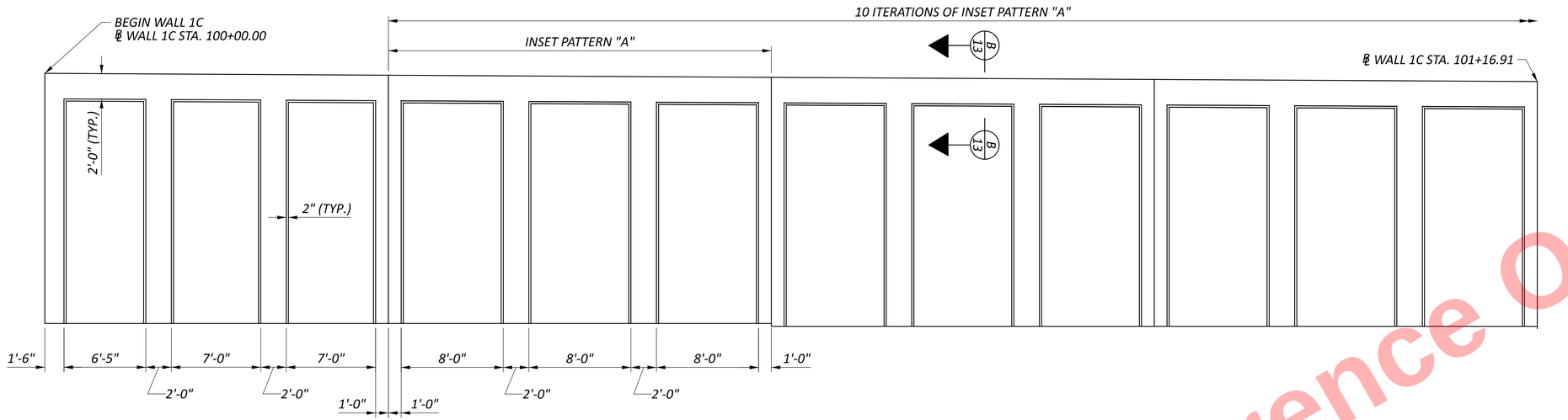
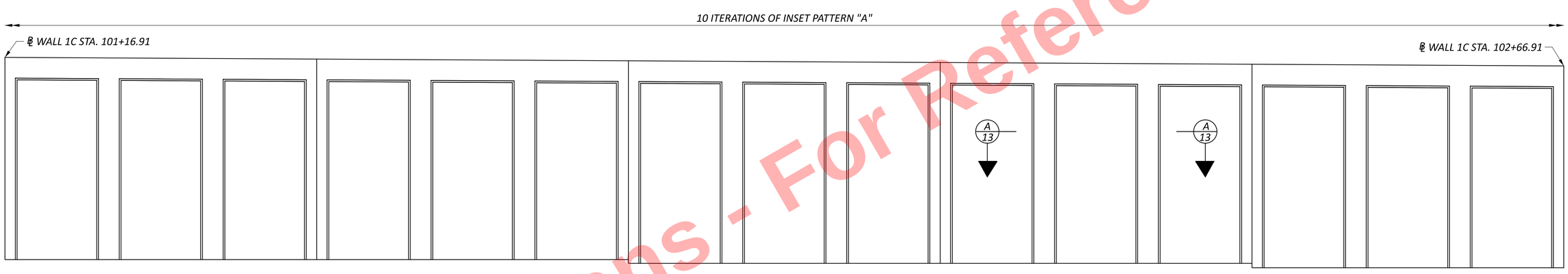
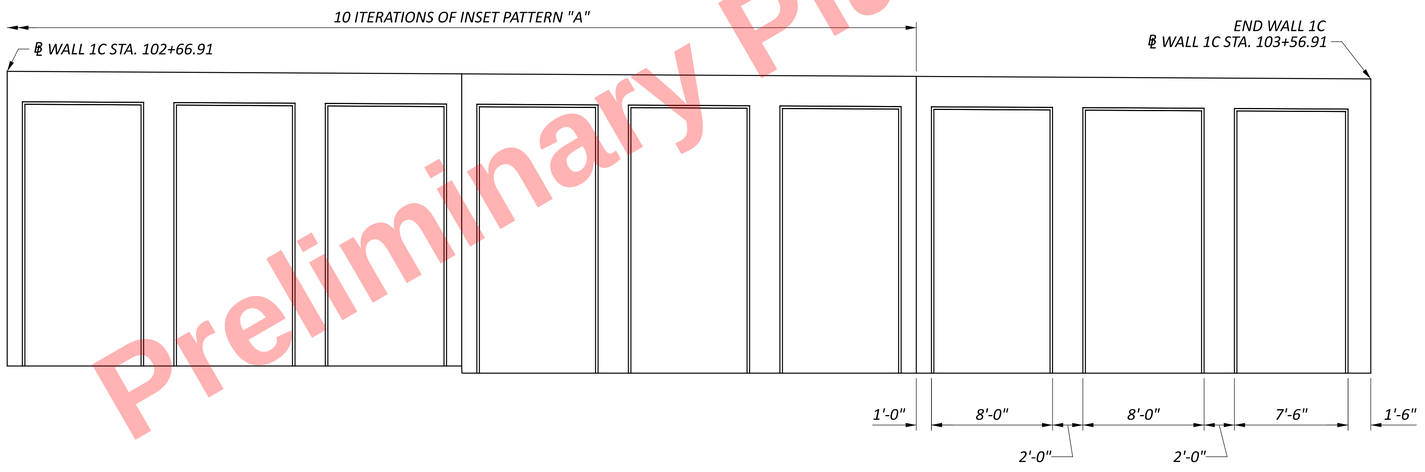
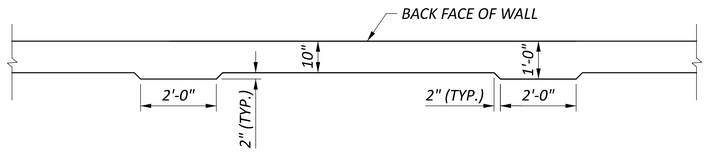
DESIGN AGENCY
TRC
DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 12 | TOTAL 14
SHEET P.864 | TOTAL P.1269



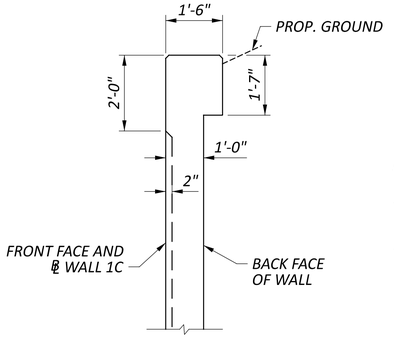




AESTHETIC WALL FACING ELEVATION



SECTION A-A



SECTION B-B

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. PAYMENT FOR ALL FORMWORK, MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO PRODUCE THE AESTHETIC WALL FACING PATTERN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 511, CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN.
3. FOR WALL FACING ELEVATIONS, SEE SHEETS 5/14 THRU 10/14.

Preliminary Plans - Not For Reference Only

AESTHETIC DETAILS
RETAINING WALL 1C

DESIGN AGENCY
TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	13
TOTAL	14
SHEET	P.865
TOTAL	P.1269

CUY-77-11.41 - PART 1

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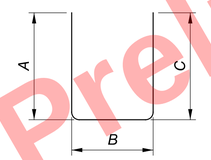
MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
W401	38	19'-3"	489	STR							
W402	248	19'-0"	3148	STR							
W403	186	18'-10"	2340	STR							
W404	78	19'-1"	994	STR							
W405	62	18'-11"	783	STR							
W406	62	19'-4"	801	STR							
W407	62	19'-1"	790	STR							
W408	368	4'-4"	1065	2	2'-1"	1'-0"	1'-6"				
W601	54	26'-7"	2156	STR							
W602	418	29'-8"	18626	STR							
TOTAL			31,192								



TYPE-2

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. ALL REINFORCING STEEL TO BE EPOXY COATED.

Preliminary Plans - For Reference Only

REINFORCING STEEL LIST
RETAINING WALL 1C

DESIGN AGENCY TRC

DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 14 | TOTAL 14

SHEET P.866 | TOTAL P.1269

CUY-77-11.41 - PART 1

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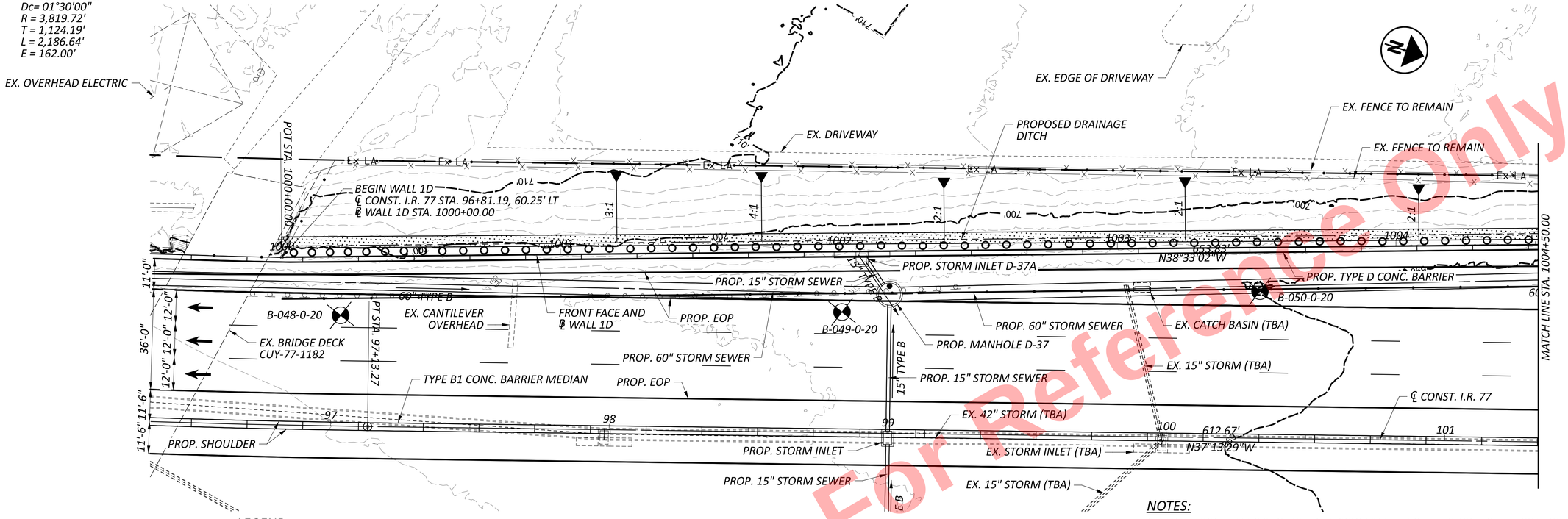
CURVE DATA I.R. 77
P.I. = STA. 86+50.82
Δ = 32°47'59" LT
Dc= 01°30'00"
R = 3,819.72'
T = 1,124.19'
L = 2,186.64'
E = 162.00'



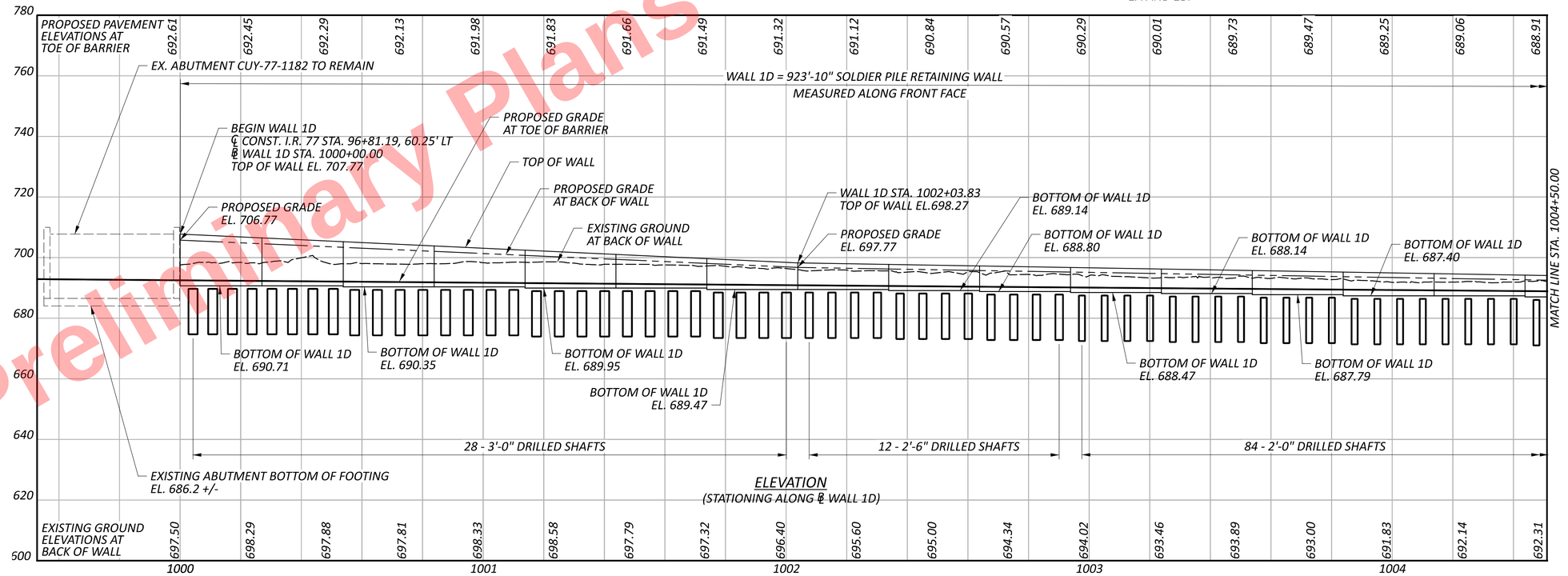
PLAN

LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION.

NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A AND 1B.



ELEVATION
(STATIONING ALONG ℄ WALL 1D)

Preliminary Plans - For Reference Only

SITE PLAN 1 OF 2
RETAINING WALL 1D

DESIGN AGENCY
TRC

DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 1 TOTAL 26
SHEET P.867 TOTAL P.1269

CUY-77-11.41 - PART 1

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Preliminary Plans - For Reference Only

CURVE DATA I.R. 77
P.I. = STA. 117+76.34
Δ = 35°07'04" RT
Dc= 01°15'00"
R = 4,583.66'
T = 1,450.41'
L = 2,809.43'
E = 224.00'

CURVE DATA I.R. 77
P.I. = STA. 1007+90.72
Δ = 3°26'20" RT
Dc= 01°15'23"
R = 4,560.28'
T = 136.89'
L = 273.70'
E = 2.05'

EX. EDGE OF DRIVEWAY
EX. EDGE OF DRIVEWAY
EX. EDGE OF DRIVEWAY
EX. FENCE TO REMAIN
EX. FENCE TO REMAIN
PC WALL 1D STA. 1006+53.83
℄ CONST. I.R. 77 STA. 103+35.20, 75.52' LT
PROP. DRAINAGE DITCH
EX. LIGHT POLE TO BE REMOVED (TYP.)
END WALL 1D
℄ CONST. I.R. STA. 106+00.55, 82.14' LT
℄ WALL 1D STA. 1009+23.83
PROP. STORM INLET D-42
PROP. 15" STORM SEWER
℄ CONST. RAMP B2
POT STA. 200+00.00
℄ CONST. I.R. 77
STA. 106+05.24, 72.50' LT
PROP. MANHOLE D-41
POT STA. 1009+27.53
N38°33'03"W
B-051-0-20
X-008-1-18
B-008-0-18
FRONT FACE AND ℄ WALL 1D
PROP. STORM INLET D-40
PROP. 15" STORM SEWER
PROP. MANHOLE D-39
EX. CATCH BASIN (TBA)
PROP. 60" STORM SEWER
PROP. TYPE D CONC. BARRIER
TYPE B1 CONC. BARRIER MEDIAN
PROP. 60" STORM SEWER
PROP. EOP
EX. 15" STORM (TBA)
PROP. EOP
PROP. SHOULDER
EX. STORM INLET (TBA)
℄ CONST. I.R. 77
EX. 42" STORM (TBA)
EX. 42" STORM (TBA)
EX. 42" STORM (TBA)
MATCH LINE STA. 1004+50.00
STA. 103+25.93
PC STA. 1006+53.83
POT STA. 1009+27.53
16'-0"
36'-0"
12'-0" 12'-0" 12'-0"
11'-6" 11'-6"
8'-0"
16'-0"
9'-0"
102
103
104
105
106
1005
1006
1007
1008
1009

NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A AND 1B.

PLAN

LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION.

PROPOSED PAVEMENT ELEVATIONS AT TOE OF BARRIER: 688.77 | 688.61 | 688.44 | 688.27 | 688.10 | 687.90 | 687.70 | 687.50 | 687.31 | 687.13 | 687.01 | 686.88 | 686.54 | 686.19 | 685.85 | 685.51 | 685.17 | 684.82 | 684.48

WALL 1D = 923'-10" SOLDIER PILE RETAINING WALL
MEASURED ALONG FRONT FACE

MATCH LINE STA. 1004+50.00

TOP OF WALL
EXISTING GROUND AT BACK OF WALL
WALL 1D STA. 1005+63.83
TOP OF WALL EL. 692.19
PROPOSED GRADE AT BACK OF WALL
WALL 1D STA. 1006+53.83
TOP OF WALL EL. 691.48
PROPOSED GRADE AT TOE OF BARRIER
WALL 1D STA. 1007+43.83
TOP OF WALL EL. 690.83
BOTTOM OF WALL 1D EL. 684.88
WALL 1D STA. 1008+33.83
TOP OF WALL EL. 689.70
END WALL 1D
℄ CONST. I.R. 77 STA. 106+00.55, 82.14' LT
℄ WALL 1D STA. 1009+23.83
TOP OF WALL EL. 688.27
PROPOSED GRADE EL. 685.55

BOTTOM OF WALL 1D EL. 687.03
BOTTOM OF WALL 1D EL. 686.63
BOTTOM OF WALL 1D EL. 686.16
BOTTOM OF WALL 1D EL. 685.69
BOTTOM OF WALL 1D EL. 685.25
BOTTOM OF WALL 1D EL. 684.46
BOTTOM OF WALL 1D EL. 684.05
BOTTOM OF WALL 1D EL. 683.64
BOTTOM OF WALL 1D EL. 682.62
BOTTOM OF WALL 1D EL. 683.16

ELEVATION
(STATIONING ALONG ℄ WALL 1D)
84 - 2'-0" DRILLED SHAFTS

760 | 740 | 720 | 700 | 680 | 660 | 640 | 620 | 600

EXISTING GROUND ELEVATIONS AT BACK OF WALL: 691.61 | 691.38 | 691.51 | 692.12 | 691.86 | 690.78 | 690.65 | 690.24 | 690.30 | 689.89 | 689.17 | 689.02 | 688.76 | 688.70 | 688.73 | 688.58 | 688.18 | 687.44 | 687.07

1005 | 1006 | 1007 | 1008 | 1009

SITE PLAN 2 OF 2
RETAINING WALL 1D

CUY-77-11.41 - PART 1

DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 2 TOTAL: 26
SHEET: P.868 TOTAL: P.1269

MODEL: CLP_2 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 5:52:25 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL01D\Sheets\105743_WALL01D_WP001.dgn

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 10TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

EPOXY COATED REINFORCING STEEL - MIN. 60 KSI

STEEL SOLDIER PILES - ASTM A572 - YIELD STRENGTH 50 KSI

ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W16x36

ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W16x45

ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W21x93

ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W27x114

ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W27x129

THIS WORK CONSISTS OF FURNISHING AND PLACING STEEL SOLDIER PILES INTO DRILLED HOLES. FURNISH SOLDIER PILES CONSISTING OF STRUCTURAL STEEL MEMBERS THAT MEET THE PLAN REQUIREMENTS AND CONFORM TO ASTM A572, GRADE 50. DO NOT FIELD WELD OR SPLICE STEEL SOLDIER PILES.

THE DEPARTMENT WILL MEASURE SOLDIER PILES ALONG THE AXIS OF THE SOLDIER PILE FROM THE TOP OF WALL ELEVATION TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER. THE DEPARTMENT WILL PAY FOR SOLDIER PILES AT THE CONTRACT UNIT PRICE PER FOOT FOR ITEM 507, STEEL PILES, MISC.: SOLDIER PILES, W16x36, ITEM 507, STEEL PILES, MISC.: SOLDIER PILES, W16x50, ITEM 507, STEEL PILES, MISC.: SOLDIER PILES, W2155, ITEM 507, STEEL PILES, MISC.: SOLDIER PILES, W24x68, ITEM 507, STEEL PILES, MISC.: SOLDIER PILES, W24x84,ITEM 507, STEEL PILES, MISC.: SOLDIER PILES, W27x84, ITEM 507, STEEL PILES, MISC.: SOLDIER PILES, W27x94 OR ITEM 507, STEEL PILES, MISC.: SOLDIER PILES, W27x129.

ITEM 512 - TYPE 2 WATERPROOFING, AS PER PLAN

PLACE WATERPROOFING MEMBRANE AT THE LOCATIONS OF THE PROPOSED JOINTS IN THE CONCRETE WALL FACING. PLACE THE WATERPROOFING MEMBRANE OVER THE PGD AND SECURELY ATTACH TO THE TIMBER LAGGING WITH SCREWS AND 1-INCH OUTER DIAMETER FENDER WASHERS. PLACE THE MEMBRANE SO THAT THE ADHESIVE SIDE FACES THE CAST-IN-PLACE CONCRETE. THE SURFACE PREPARATION DESCRIBED IN C&MS 512.08 IS NOT REQUIRED.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

ITEM 512 - SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION)

APPLY A PERMANENT GRAFFITI COATING QUALIFIED ACCORDING TO S1083 THAT IS COMPATIBLE WITH THE CONCRETE SEALER OVER WHICH IT IS APPLIED. APPLY THE GRAFFITI COATING IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.

ITEM 513 - WELDED STUD SHEAR CONNECTORS, AS PER PLAN

SOLDIER PILES WHICH REQUIRE HEADED STUDS ARE SHOWN IN THE TABLE ON SHEET 23/26 AND 24/26. WELD HEADED STEEL STUDS TO THE FLANGES OF THE SOLDIER PILE IN ORDER TO CONNECT THE CAST-IN-PLACE CONCRETE WALL FACING TO THE SOLDIER PILE. ATTACH HEADED STUDS ACCORDING TO C&MS 513.22 AND AS SHOWN IN THE PLANS. THE CONTRACTOR MAY ATTACH THE STUDS EITHER BEFORE PLACING THE SOLDIER PILE IN THE DRILLED HOLE OR AFTER EXCAVATING IN FRONT OF THE WALL. PROTECT THE HEADED STUDS FROM DAMAGE UNTIL THE CONCRETE WALL FACING IS POURED. REPAIR OR REPLACE DAMAGED HEADED STUDS AT NO EXPENSE TO THE DEPARTMENT.

ITEM 524 - DRILLED SHAFT, 24" DIAMETER ABOVE BEDROCK, AS PER PLAN

ITEM 524 - DRILLED SHAFT, 30" DIAMETER ABOVE BEDROCK, AS PER PLAN

ITEM 524 - DRILLED SHAFT, 36" DIAMETER ABOVE BEDROCK, AS PER PLAN

THIS WORK CONSISTS OF FURNISHING AND INSTALLING DRILLED SHAFTS FOR SOLDIER PILE AND LAGGING WALLS. THE DRILLED SHAFTS ARE REINFORCED WITH SOLDIER PILES INSTEAD OF REINFORCING STEEL CAGES. THE SOLDIER PILES EXTEND ABOVE THE TOP OF THE DRILLED SHAFT. FURNISH AND INSTALL THE DRILLED SHAFTS ACCORDING TO C&MS 524 EXCEPT AS MODIFIED AND SUPPLEMENTED BELOW.

EXCAVATE THE HOLE FOR THE DRILLED SHAFT WITHIN 3 INCHES OF THE PLAN LOCATION. PLACE THE SOLDIER PILE WITHIN THE HOLE SO IT IS VERTICAL AND NOT INCLINED MORE THAN 1 INCH BETWEEN TOP AND BOTTOM. PLACE THE SOLDIER PILE SO THAT THE FLANGES ARE PARALLEL TO THE CENTERLINE OF THE ROW OF DRILLED SHAFTS. DO NOT ALLOW THE ORIENTATION OF THE FLANGES TO VARY BY MORE THAN 10 DEGREES. SUPPORT THE SOLDIER PILE SO THAT IT DOES NOT MOVE DURING CONCRETE PLACEMENT.

USE CLASS QC1 CONCRETE ACCORDING TO C&MS 511. PLACE CONCRETE TO THE ELEVATION FOR THE TOP OF THE DRILLED SHAFT. THE CONTRACTOR MAY PLACE CONCRETE USING THE FREE FALL METHOD PROVIDED THE DEPTH OF WATER IS LESS THAN 6 INCHES AND THE CONCRETE FALLS WITHOUT STRIKING THE SIDES OF THE HOLE. POURING CONCRETE ALONG THE WEB OF THE SOLDIER PILE IS ACCEPTABLE.

CHECK THE POSITION, THE VERTICAL ALIGNMENT AND ORIENTATION OF THE SOLDIER PILE IMMEDIATELY AFTER CONCRETE PLACEMENT. MAKE CORRECTIONS AS NECESSARY TO MEET THE ABOVE TOLERANCES.

IF REQUIRED TO MAINTAIN HOLE STABILITY, FILL THE HOLE ABOVE THE BOTTOM OF THE LAGGING TO THE EXISTING GROUND SURFACE WITH ITEM 613 LOW STRENGTH MORTAR BACKFILL (LSM).

REMOVE CONCRETE AND LSM AS NECESSARY FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE THE LAGGING. PLACE THE LAGGING SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING. WAIT AT LEAST 12 HOURS AFTER PLACING CONCRETE IN THE DRILLED SHAFTS BEFORE PLACING LAGGING.

SEQUENCE OF INSTALLATION: INSTALL THE DRILLED SHAFTS IN A SEQUENCE SUCH THAT NO DRILLED SHAFT IS INSTALLED ADJACENT TO EITHER AN OPEN DRILLED SHAFT EXCAVATION OR A DRILLED SHAFT IN WHICH THE CONCRETE HAS LESS THAN A 48 HOUR CURE. INSTALLING THE SHAFTS IN AN ALTERNATING SEQUENCE OR ANY OTHER SEQUENCE THAT MEETS THIS CRITERIA IS PERMISSIBLE.

PROTECTION OF UNATTENDED OPEN SHAFTS: COVER UNATTENDED OPEN SHAFTS. USE TEMPORARY COVERS OF ADEQUATE STRENGTH TO PREVENT A PERSON OR ANIMAL FROM FALLING IN. LEAVE NO DRILLED SHAFT EXCAVATION UN-POURED OVERNIGHT.

THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHOD USED TO CONSTRUCT THE DRILLED SHAFTS AND PLACE LAGGING. ANY TEMPORARY GRADING, EXCAVATION, EMBANKMENT, AGGREGATE, DRAINAGE, SHEETING, ETC. NEEDED TO COMPLETE THE WORK IS INCLUDED IN THE BID PRICE FOR THE DRILLED SHAFTS. THE COST OF ANY EXCAVATION AND SUBSEQUENT REPLACEMENT OF EMBANKMENT (PER ITEM 203 EMBANKMENT) IS INCLUDED IN THE VARIOUS BID ITEMS FOR THE DRILLED SHAFTS AND LAGGING, UNLESS SEPARATELY ITEMIZED. NO SEPARATE PAYMENT WILL BE MADE.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE DRILLED SHAFTS ABOVE BEDROCK, AS PER PLAN, ALONG THE AXIS OF THE DRILLED SHAFT FROM THE EXISTING GROUND SURFACE TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER.

PAYMENT IS FULL COMPENSATION FOR CONSTRUCTING THE DRILLED SHAFTS, INCLUDING FURNISHING AND PLACING CONCRETE AND LSM, AND REMOVAL OF CONCRETE OR LSM FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE LAGGING.

ITEM SPECIAL - RETAINING WALL, TIMBER LAGGING

THIS WORK CONSISTS OF FURNISHING AND PLACING TIMBER LAGGING BETWEEN THE SOLDIER PILES AS TEMPORARY SUPPORT FOR THE RETAINED SOIL. FURNISH TIMBER LAGGING CONSISTING OF CONSTRUCTION GRADE, UNTREATED HARDWOOD WITH A MINIMUM THICKNESS OF 3 INCHES. TO PERMIT DRAINAGE, PROVIDE 1/4 TO 1/2-INCH SPACES BETWEEN LAGGING BOARDS USING 3/8-INCH THICK SPACER BLOCKS OR OTHER MEANS ACCEPTABLE TO THE ENGINEER. PLACE THE LAGGING BOARDS BETWEEN THE FLANGES OF THE SOLDIER PILES AND BEARING AGAINST THE FLANGES ON THE EXPOSED SIDE OF THE WALL SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING BOARDS. PERFORM EXCAVATION FOR PLACEMENT OF THE LAGGING IN SUCH A MANNER THAT THE LAGGING IS TIGHT AGAINST THE EXCAVATION CUT FACE. BACKFILL ANY VOIDS BEHIND THE LAGGING WITH A SUITABLE COMPACTED GRANULAR MATERIAL CONFORMING TO C&MS 703.16.C, ACCEPTABLE TO THE ENGINEER. THE COST OF ANY SUCH BACKFILLING REQUIRED, INCLUDING MATERIAL, PLACEMENT AND COMPACTION, IS INCIDENTAL TO THE COST OF LAGGING.

THE DEPARTMENT WILL PAY FOR TIMBER LAGGING AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR ITEM SPECIAL, RETAINING WALL, TIMBER LAGGING.

ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

℄ - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA./Ø - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

Preliminary Plans - For Reference Only

GENERAL NOTES
RETAINING WALL 1D

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 3 | TOTAL 26

SHEET P.869 | TOTAL P.1269

CUY-77-11.41 - PART 1

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ESTIMATED QUANTITIES (WALL 1D)

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
503	21101	224	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN	22
507	00400	1056	FT	STEEL PILES, MISC.: SOLDIER PILES, W16x36	3
507	00400	639	FT	STEEL PILES, MISC.: SOLDIER PILES, W16x45	3
507	00400	305	FT	STEEL PILES, MISC.: SOLDIER PILES, W21x93	3
507	00400	964	FT	STEEL PILES, MISC.: SOLDIER PILES, W27x114	3
507	00400	178	FT	STEEL PILES, MISC.: SOLDIER PILES, W27x129	3
509	10000	36941	LB	EPOXY COATED STEEL REINFORCEMENT	
511	46013	327	CY	CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN	25
512	10001	549	SY	SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION)	3
512	10101	549	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	3
512	33001	62	SY	TYPE 2 WATERPROOFING, AS PER PLAN	3
513	20001	1458	EACH	WELDED STUD SHEAR CONNECTORS, AS PER PLAN	3
516	13600	96	SF	1" PREFORMED EXPANSION JOINT FILLER	
516	13900	3252	SF	2" PREFORMED EXPANSION JOINT FILLER	
518	20000	498	SY	PREFABRICATED GEOCOMPOSITE DRAIN	
518	21200	35	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
524	94503	1076	FT	DRILLED SHAFTS, 24" DIAMETER, ABOVE BEDROCK, AS PER PLAN	3
524	94603	192	FT	DRILLED SHAFTS, 30" DIAMETER, ABOVE BEDROCK, AS PER PLAN	3
524	94703	752	FT	DRILLED SHAFTS, 36" DIAMETER, ABOVE BEDROCK, AS PER PLAN	3
SPECIAL	53051020	4716	SF	RETAINING WALL, TIMBER LAGGING	3

Preliminary Plans - For Reference Only

ESTIMATED QUANTITIES
RETAINING WALL 1D

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 4 | TOTAL 26

SHEET P.870 | TOTAL P.1269

CUY-77-11.41 - PART 1

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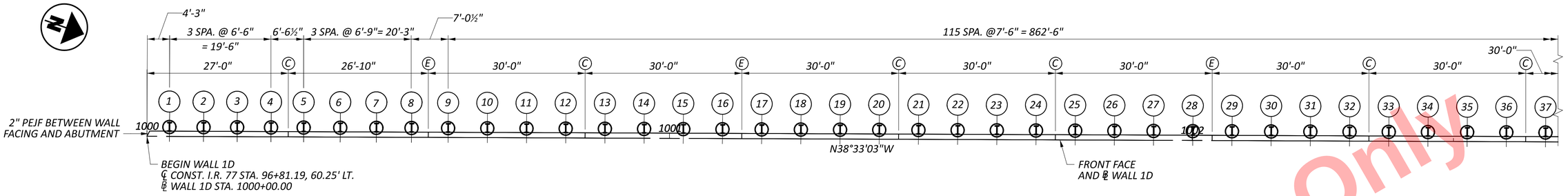
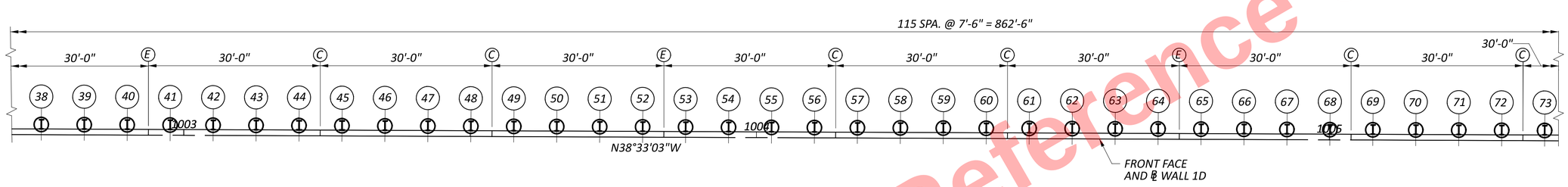
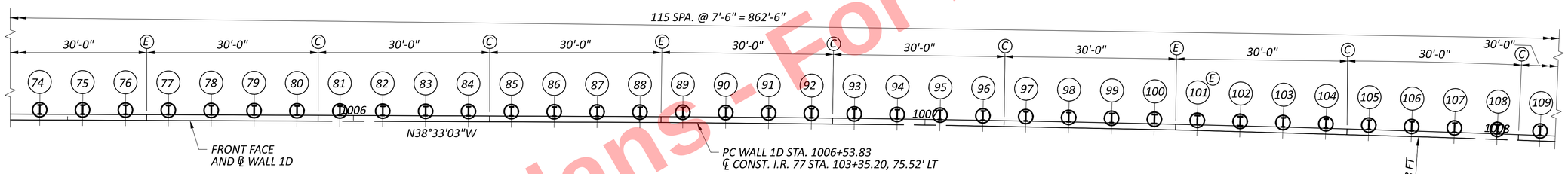
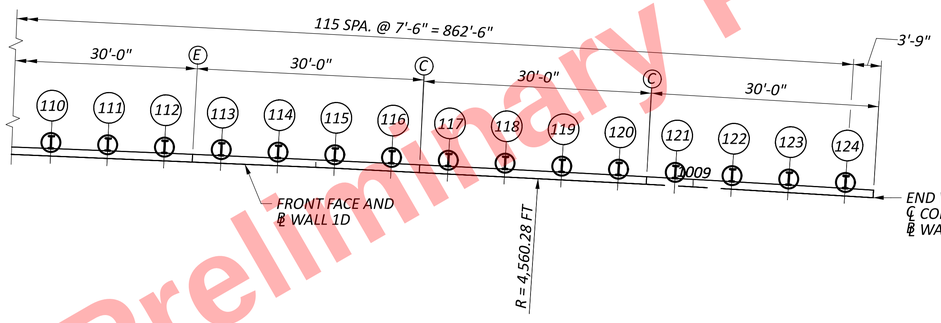


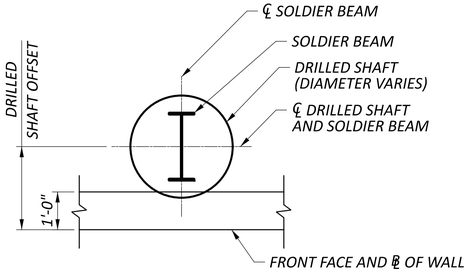




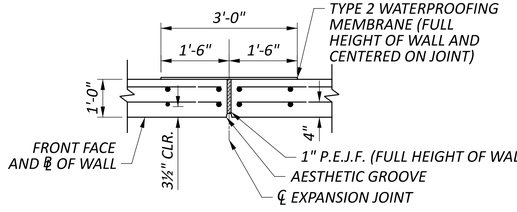


GENERAL PLAN

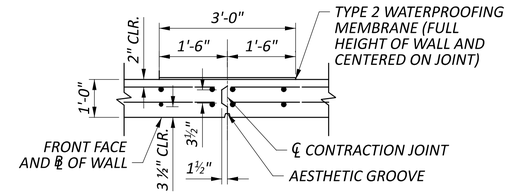
(DIMENSIONS ARE MEASURED ALONG FRONT FACE OF WALL)



DRILLED SHAFT LOCATION DETAIL



EXPANSION JOINT DETAIL



CONTRACTION JOINT DETAIL

NOTE:

1. FOR WALL ELEVATION VIEW, SEE SHEET 6/26 THRU 21/26.
2. FOR SIZES AND OFFSET DIMENSIONS OF DRILLED SHAFTS AND SOLDIER BEAMS, SEE SHEET 23/26 AND 24/26.
3. FOR AESTHETIC GROOVE DETAILS, SEE SHEET 25/26.

LEGEND:

- Ⓘ - DENOTES DRILLED SHAFT WITH SOLDIER BEAM.
- (#) - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

Preliminary Plans - For Reference Only

PILE LAYOUT
RETAINING WALL 1D

CUY-77-11.41 - PART 1

MODEL: Pile Layout PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:34:02 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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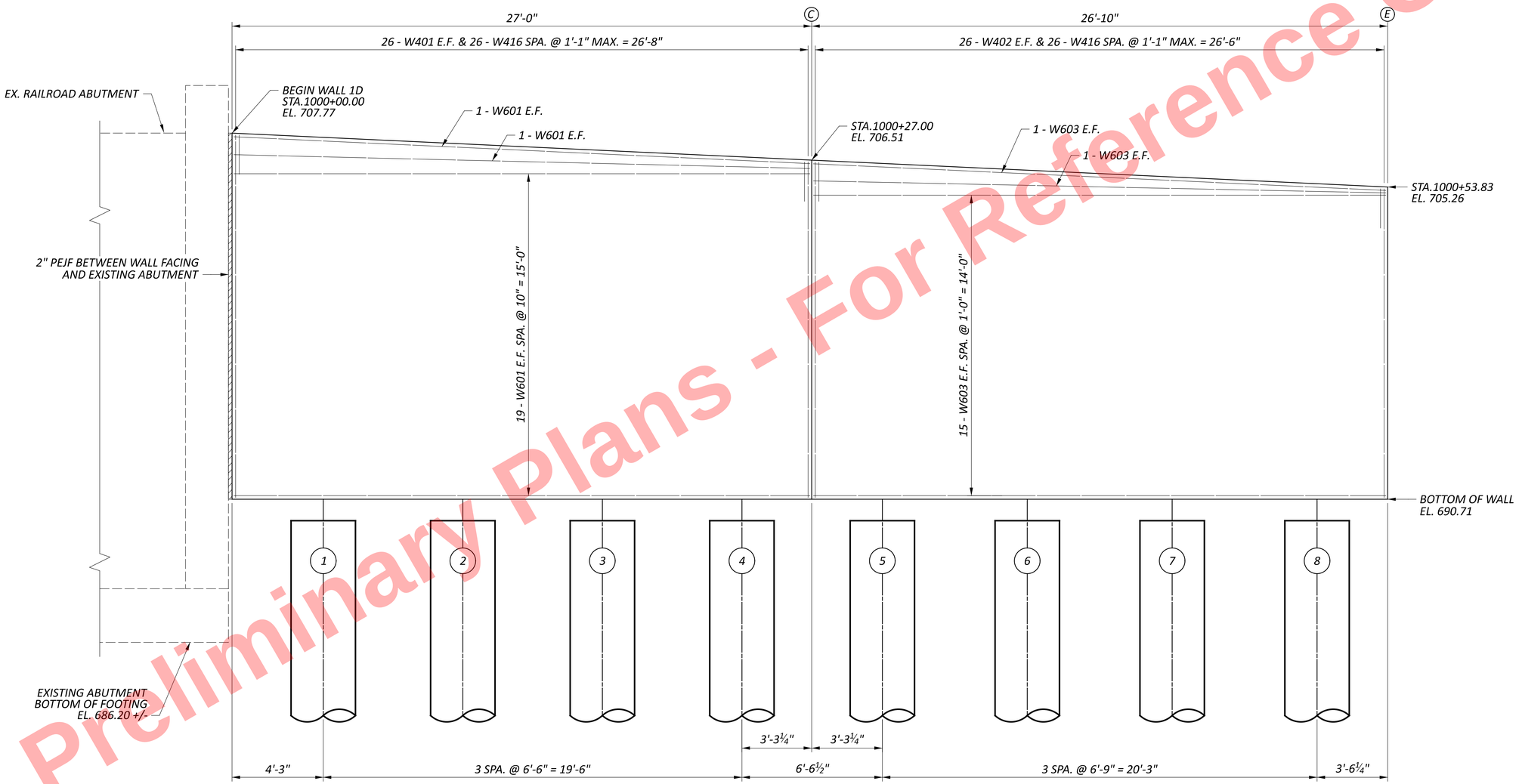
DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 5 TOTAL: 26
SHEET: P.871 TOTAL: P.1269

Preliminary Plans - For Reference Only



MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

PARTIAL ELEVATION

LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

WALL ELEVATION
RETAINING WALL 1D

CUY-77-11.41 - PART 1

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DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET / TOTAL	6 / 26
SHEET / TOTAL	P.872 / P.1269

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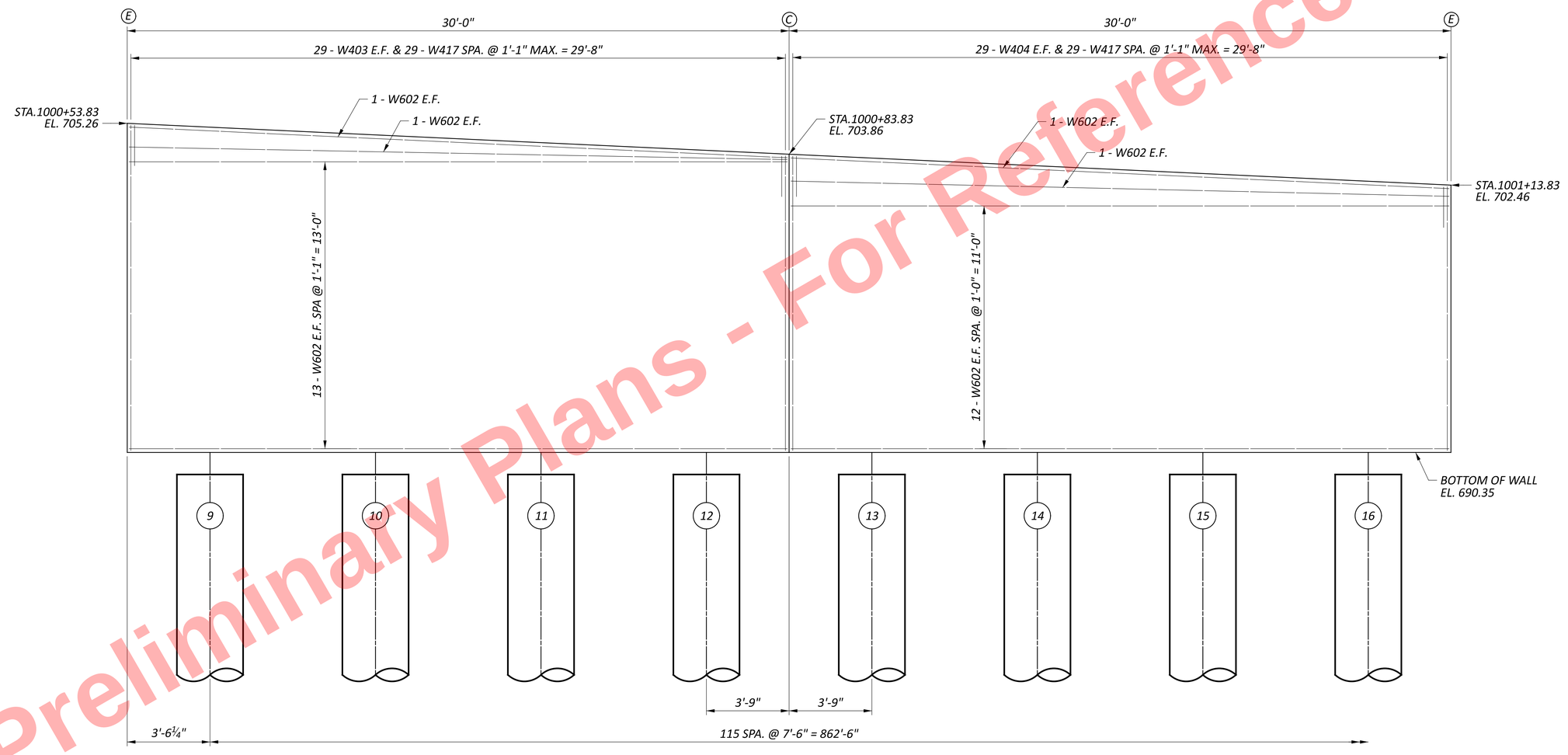
CUY-77-11.41 - PART 1



MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

PARTIAL ELEVATION

LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

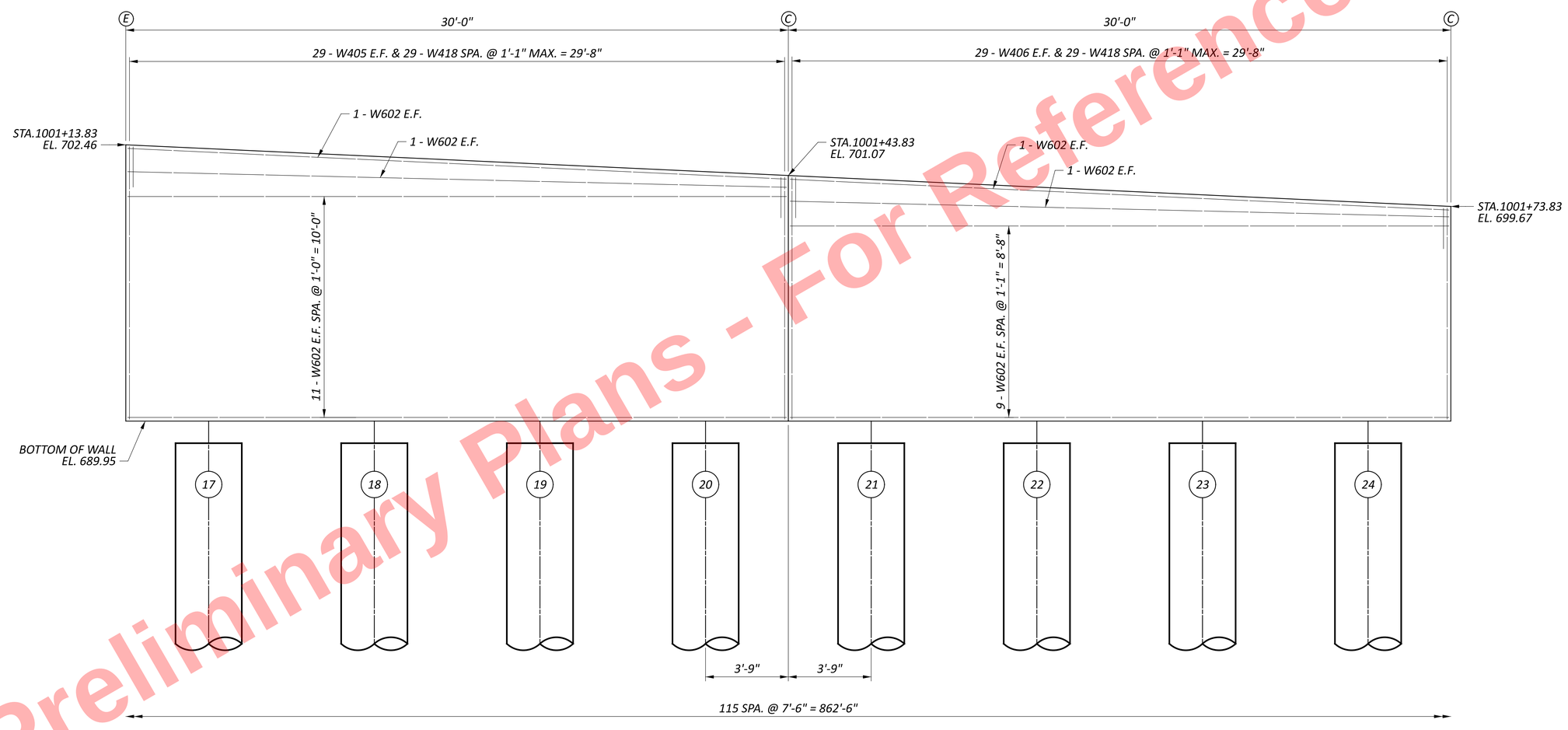
Preliminary Plans - For Reference Only

WALL ELEVATION
RETAINING WALL 1D

DESIGN AGENCY
TRC

DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 7 | TOTAL 26
SHEET P.873 | TOTAL P.1269

Preliminary Plans - For Reference Only



MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

PARTIAL ELEVATION

LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

WALL ELEVATION
RETAINING WALL 1D

CUY-77-11.41 - PART 1

MODEL: Sheet 3 - Panels 5-6 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:34:32 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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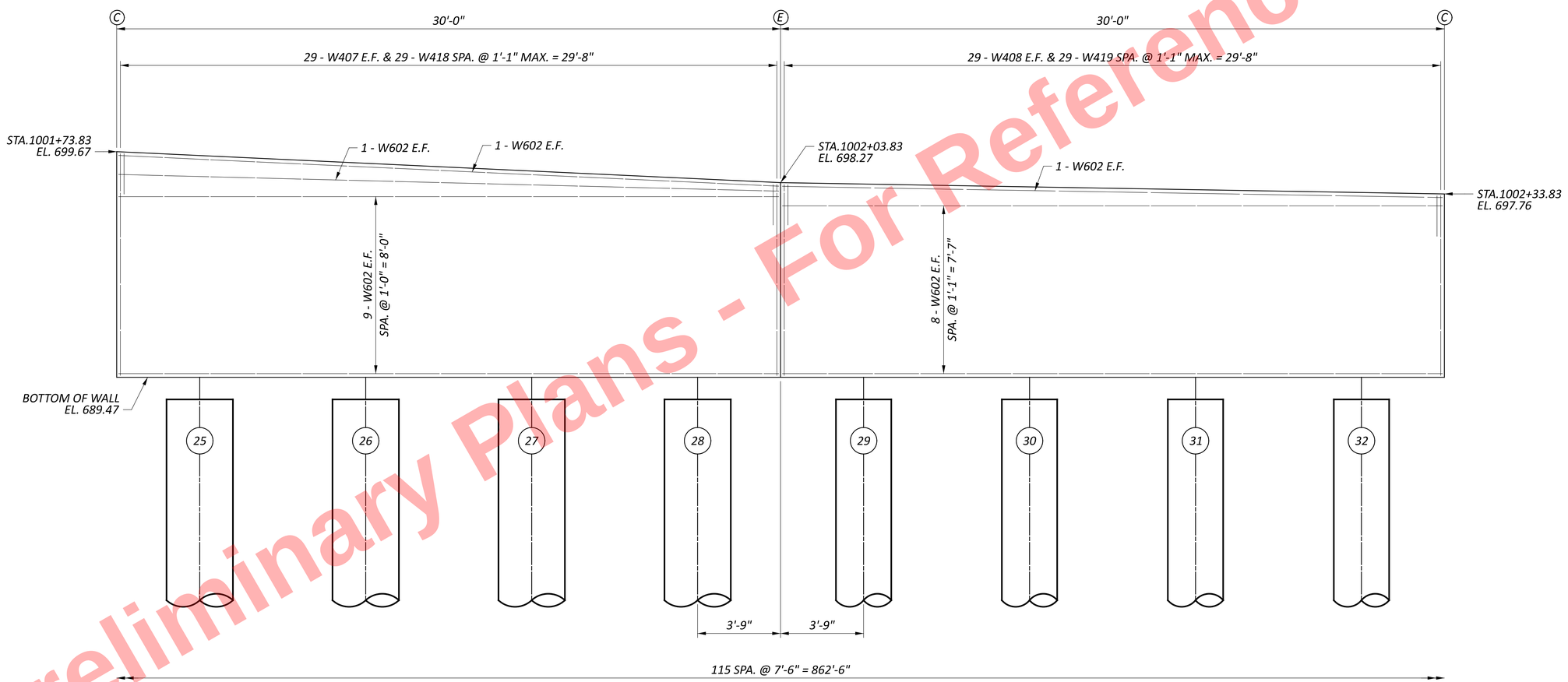
DESIGN AGENCY
TRC

DESIGNER	
CEJ	
REVIEWER	
CJW	11/17/25
PROJECT ID	
105743	
SUBSET	TOTAL
8	26
SHEET	TOTAL
P.874	P.1269

Preliminary Plans - For Reference Only



PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

WALL ELEVATION
RETAINING WALL 1D

DESIGN AGENCY
TRC

DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 9 | TOTAL 26
SHEET P.875 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet 4 - Panels 7:8 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:34:39 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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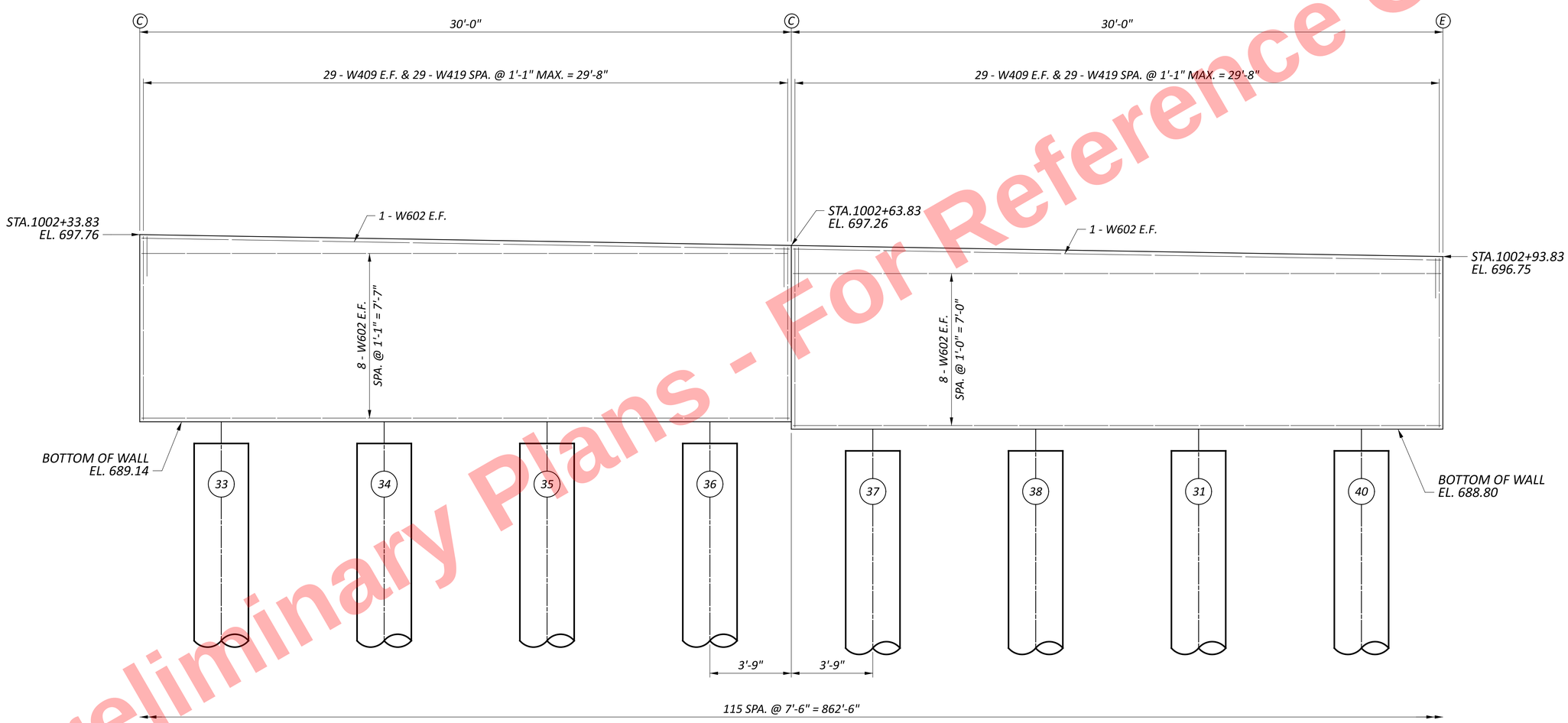
Preliminary Plans - For Reference Only



PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

WALL ELEVATION
RETAINING WALL 1D

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 10 | TOTAL 26

SHEET P.876 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet 5 - Panels 9-10 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:34:48 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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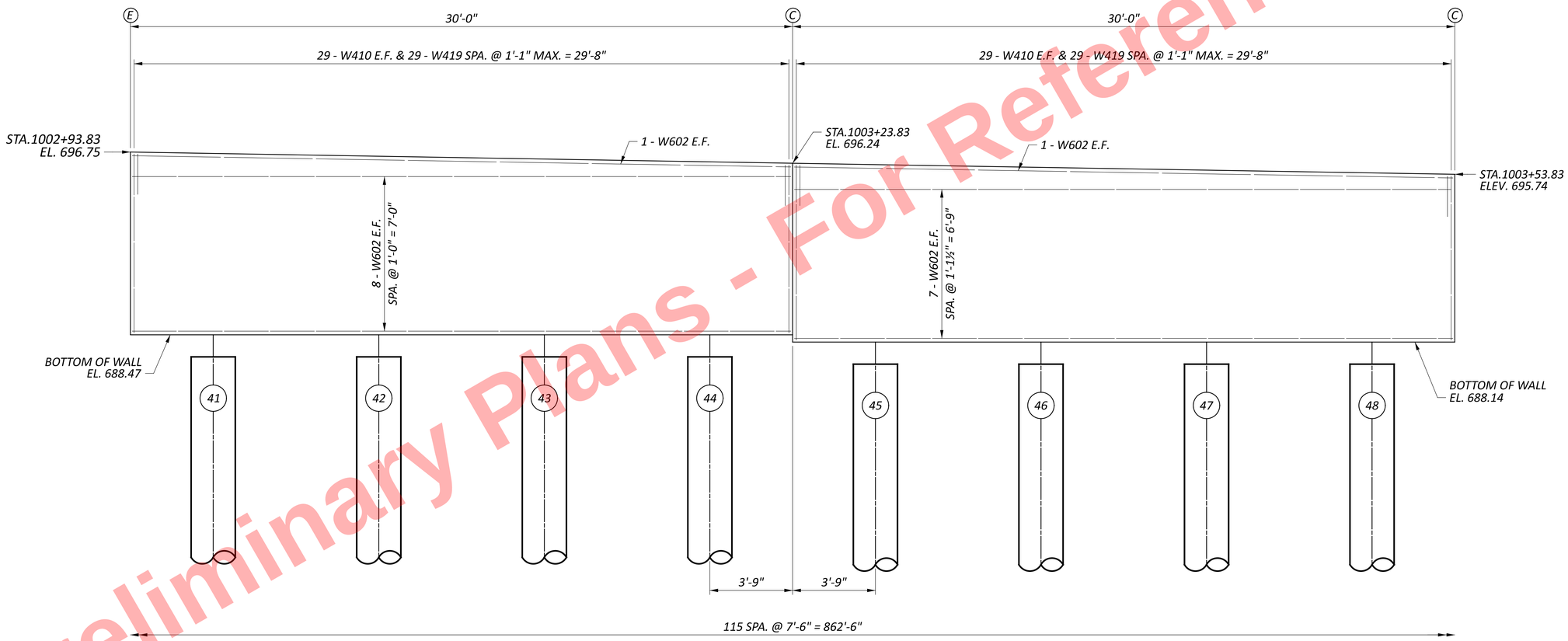
Preliminary Plans - For Reference Only



PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

NOTES:

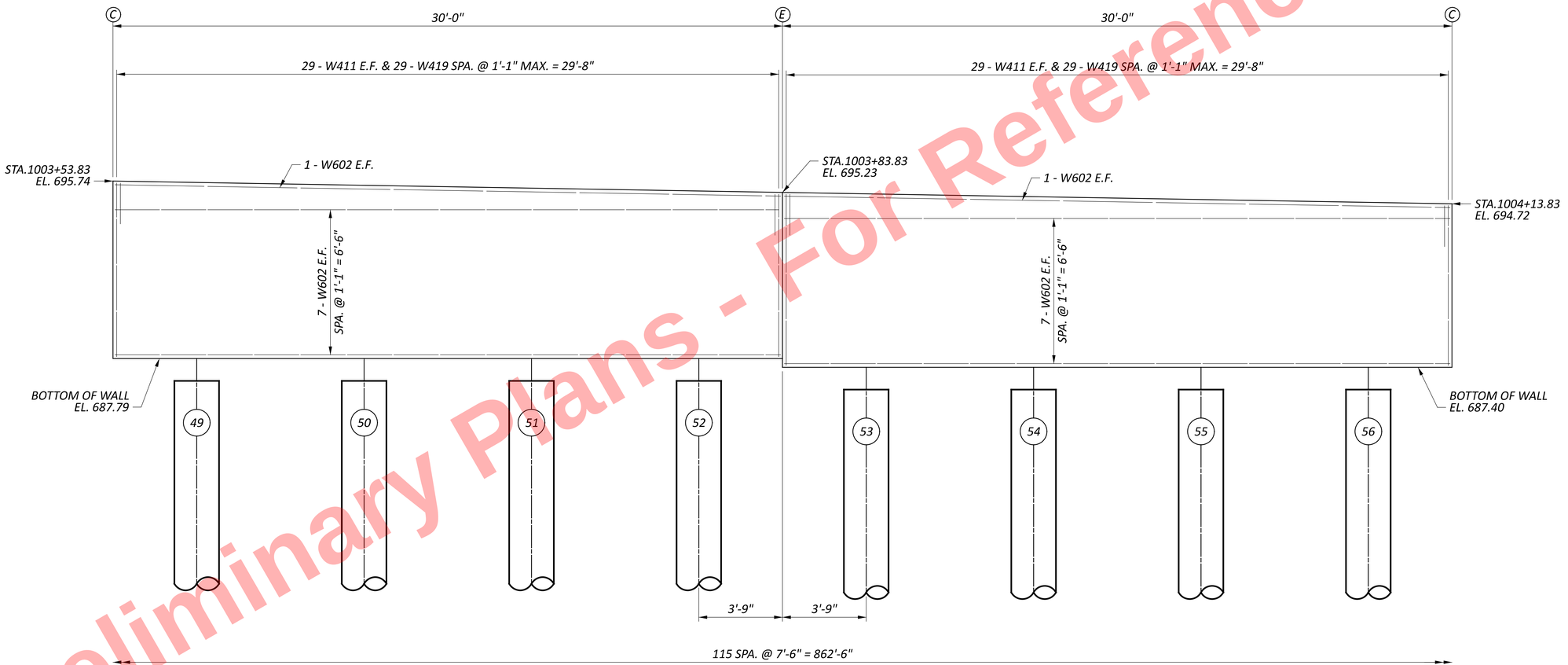
1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

WALL ELEVATION
RETAINING WALL 1D

DESIGN AGENCY
TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	11
TOTAL	26
SHEET	P.877
TOTAL	P.1269

Preliminary Plans - For Reference Only



PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

WALL ELEVATION
RETAINING WALL 1D

DESIGN AGENCY: TRC

DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 12 TOTAL: 26
SHEET: P.878 TOTAL: P.1269

CUY-77-11.41 - PART 1

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MODEL: Sheet 8 - Panels 15-16 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:35:11 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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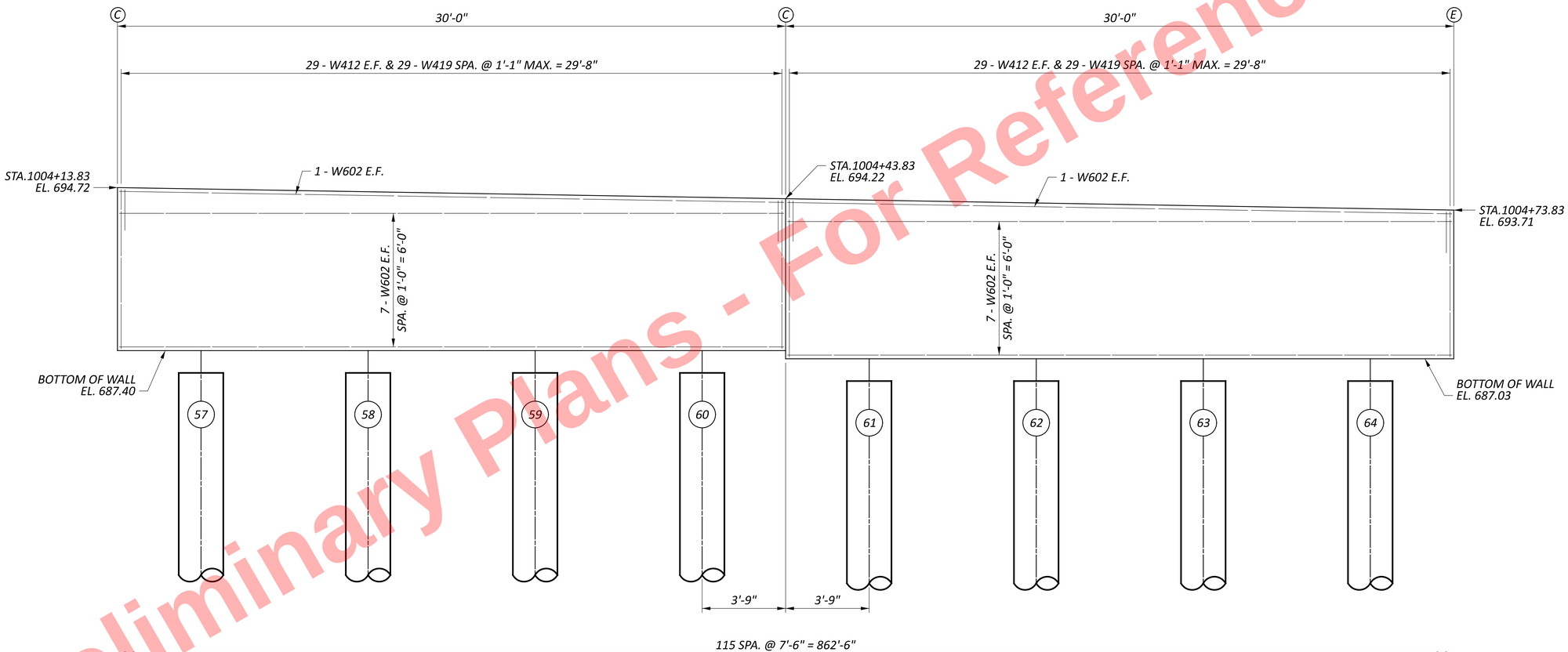
Preliminary Plans - For Reference Only



PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- (#) - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

WALL ELEVATION
RETAINING WALL 1D

DESIGN AGENCY
TRC

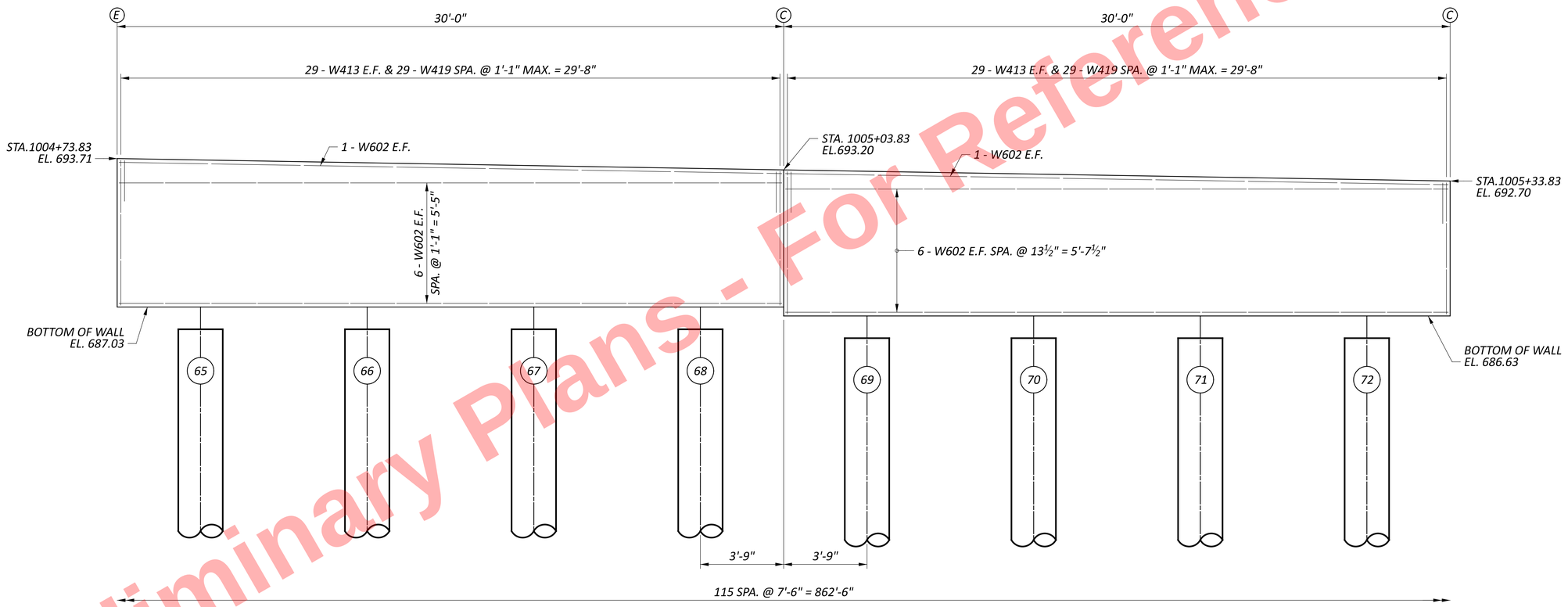
DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 13 | TOTAL 26

SHEET P.879 | TOTAL P.1269



PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

Preliminary Plans - For Reference Only

WALL ELEVATION
RETAINING WALL 1D

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 14 | TOTAL 26

SHEET P.880 | TOTAL P.1269

CUY-77-11.41 - PART 1

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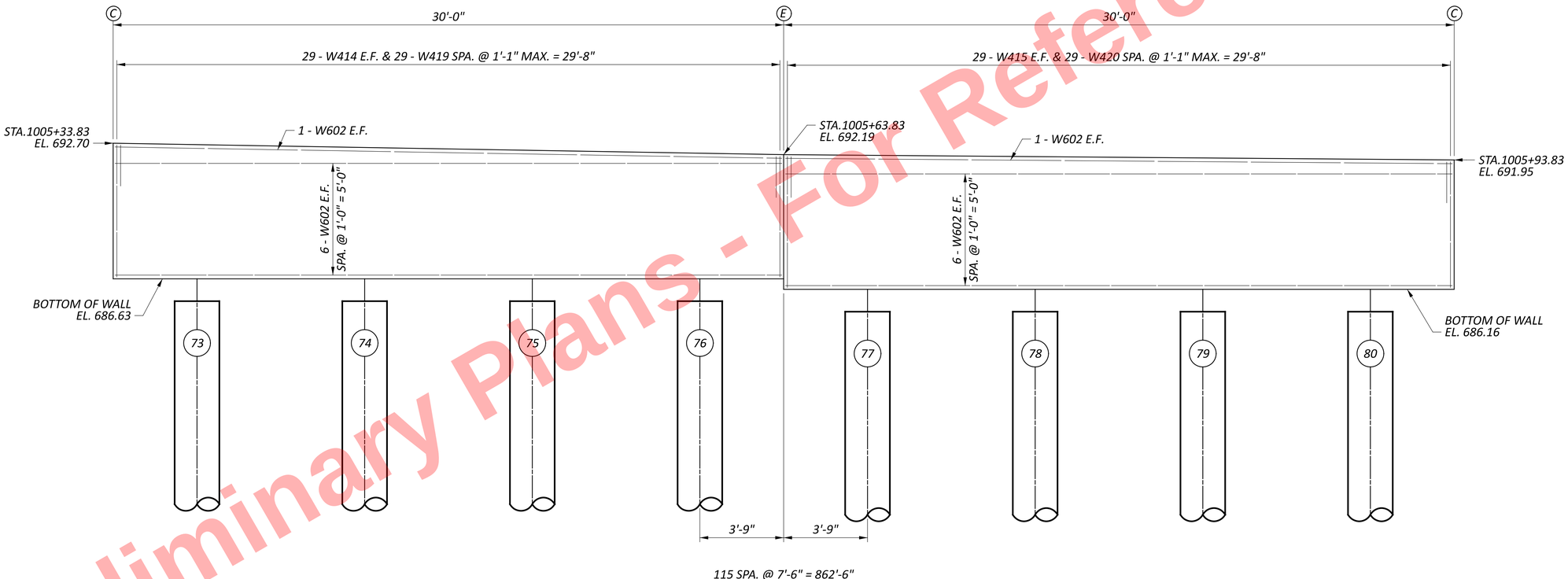
CUY-77-11.41 - PART 1



PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

Preliminary Plans - For Reference Only

WALL ELEVATION
RETAINING WALL 1D

DESIGN AGENCY: TRC

DESIGNER: CEJ

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 15 | TOTAL: 26

SHEET: P.881 | TOTAL: P.1269

MODEL: Sheet 11 - Panels 21:22 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:35:32 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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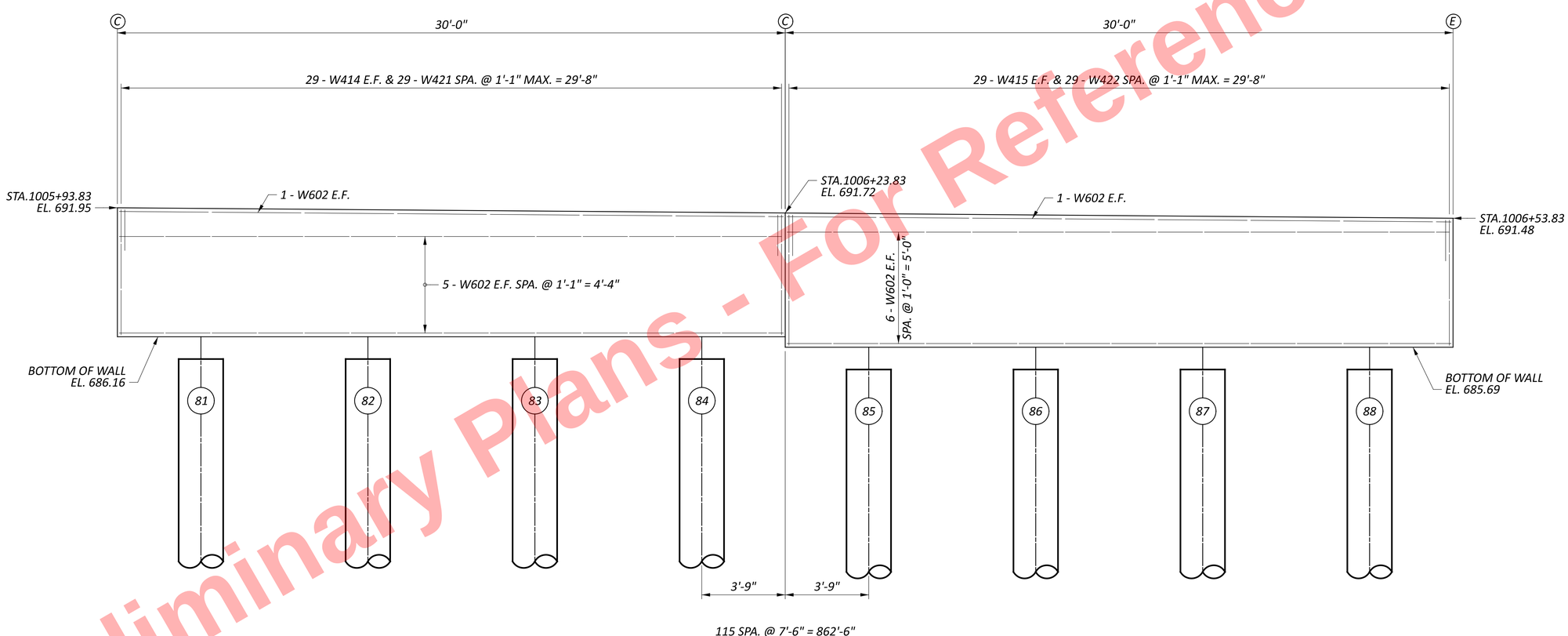

PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

Preliminary Plans - For Reference Only

WALL ELEVATION
RETAINING WALL 1D

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 16 | TOTAL 26

SHEET P.882 | TOTAL P.1269

MODEL: Sheet 12 - Panels 23-24 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:35:38 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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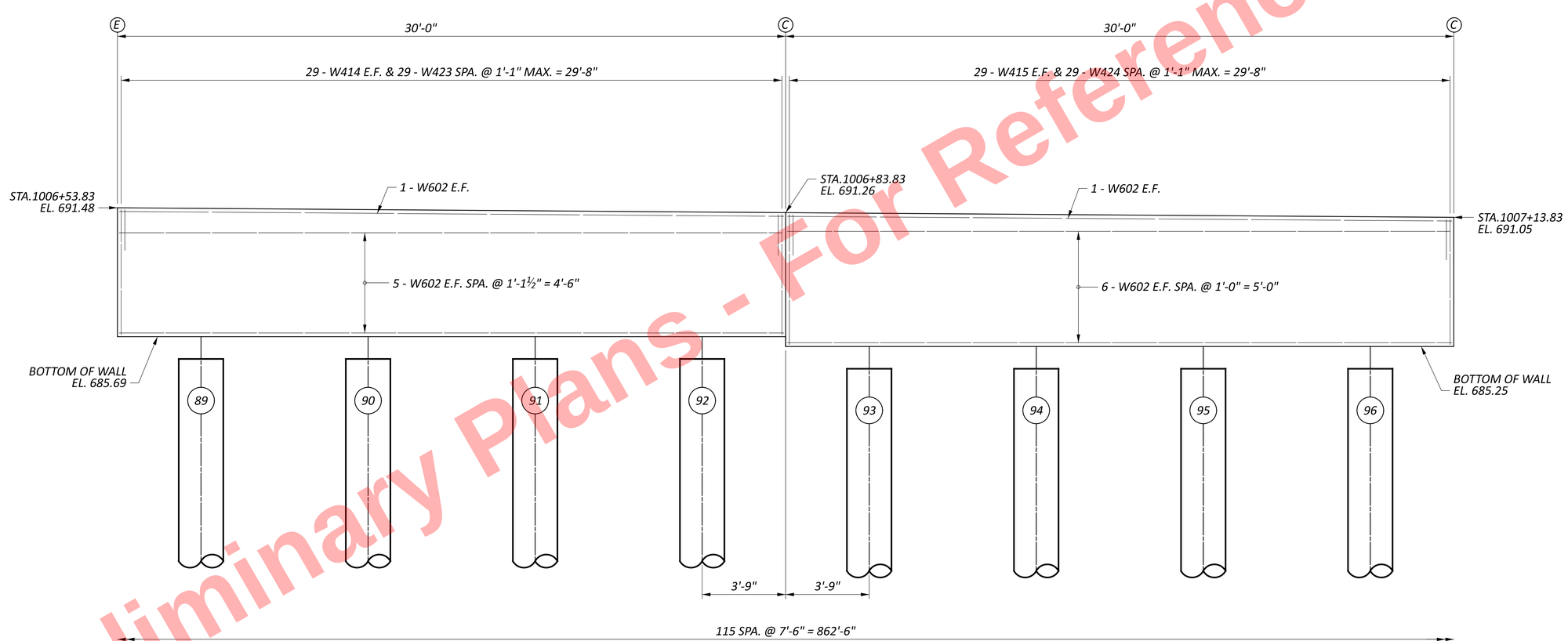
CUY-77-11.41 - PART 1



PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

Preliminary Plans - For Reference Only

WALL ELEVATION
RETAINING WALL 1D

DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	17
TOTAL	26
SHEET	P.883
TOTAL	P.1269

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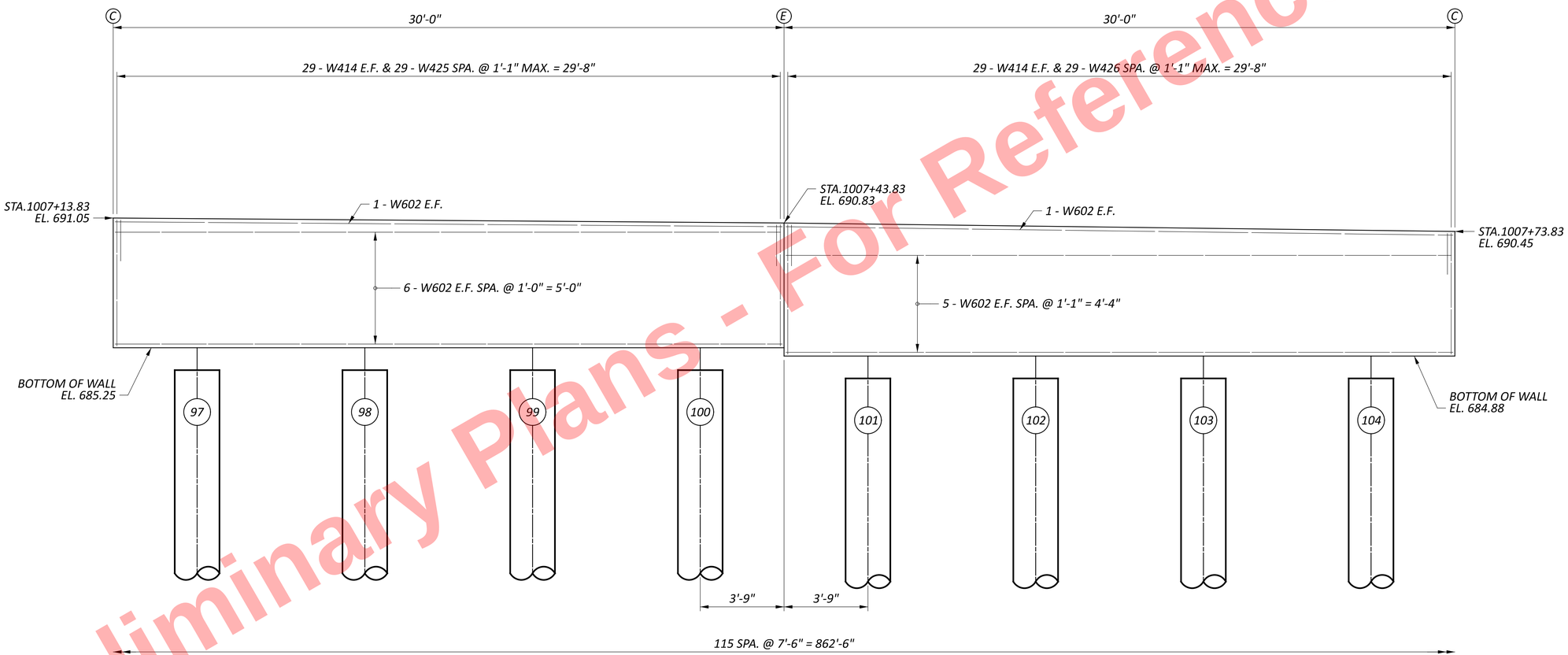
CUY-77-11.41 - PART 1



PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

Preliminary Plans - For Reference Only

WALL ELEVATION
RETAINING WALL 1D

DESIGN AGENCY: TRC

DESIGNER: CEJ

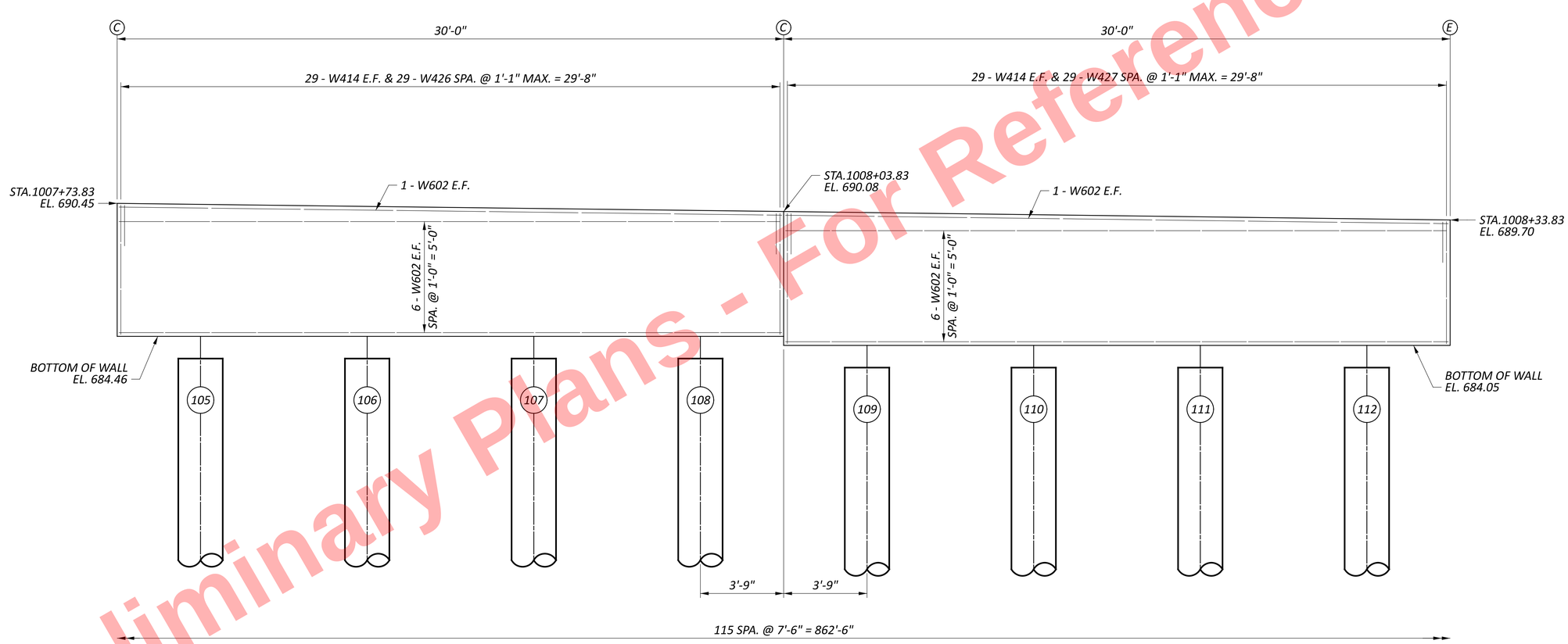
REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 18 | TOTAL: 26

SHEET: P.884 | TOTAL: P.1269

Preliminary Plans - For Reference Only



PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

WALL ELEVATION
RETAINING WALL 1D

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 19 | TOTAL 26

SHEET P.885 | TOTAL P.1269

CUY-77-11.41 - PART 1

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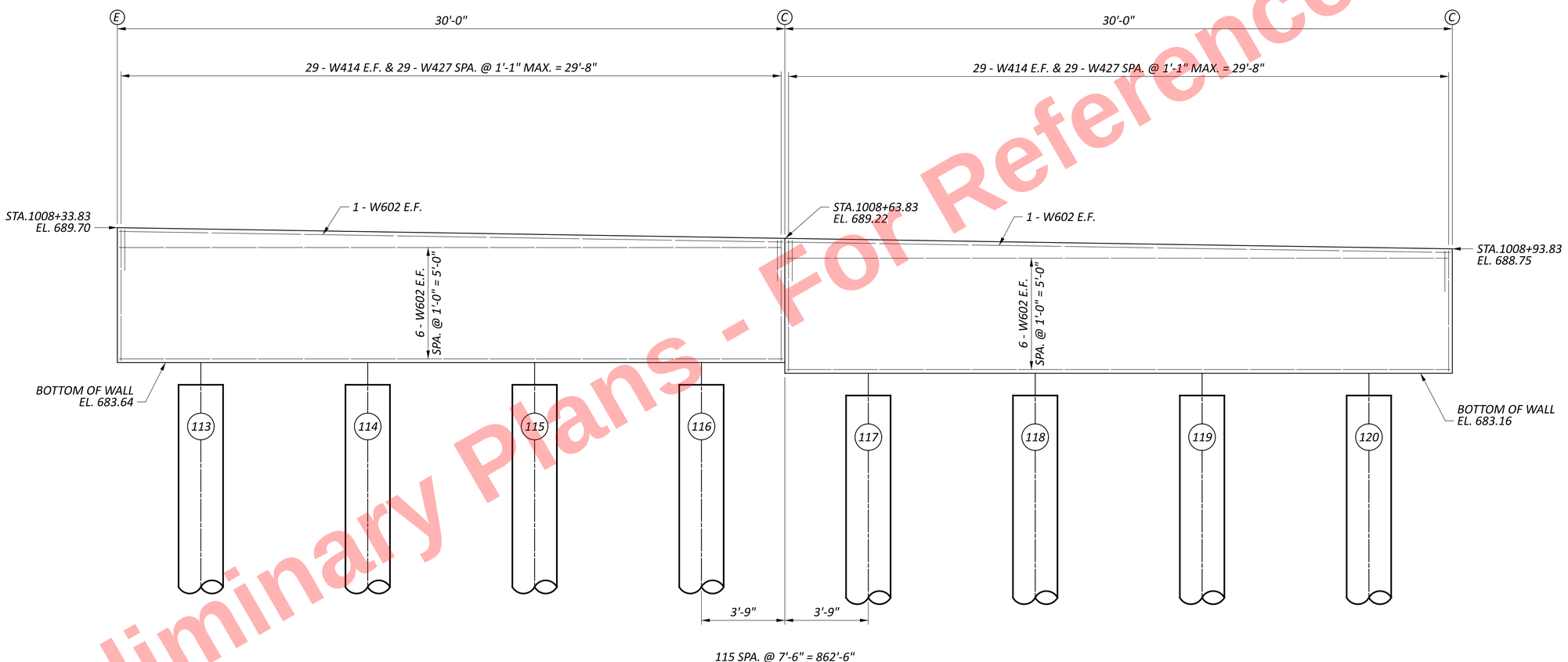
Preliminary Plans - For Reference Only



PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

WALL ELEVATION
RETAINING WALL 1D

DESIGN AGENCY: TRC

DESIGNER: CEJ

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 20 | TOTAL: 26

SHEET: P.886 | TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet 15 - Panels 29-30 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:36:02 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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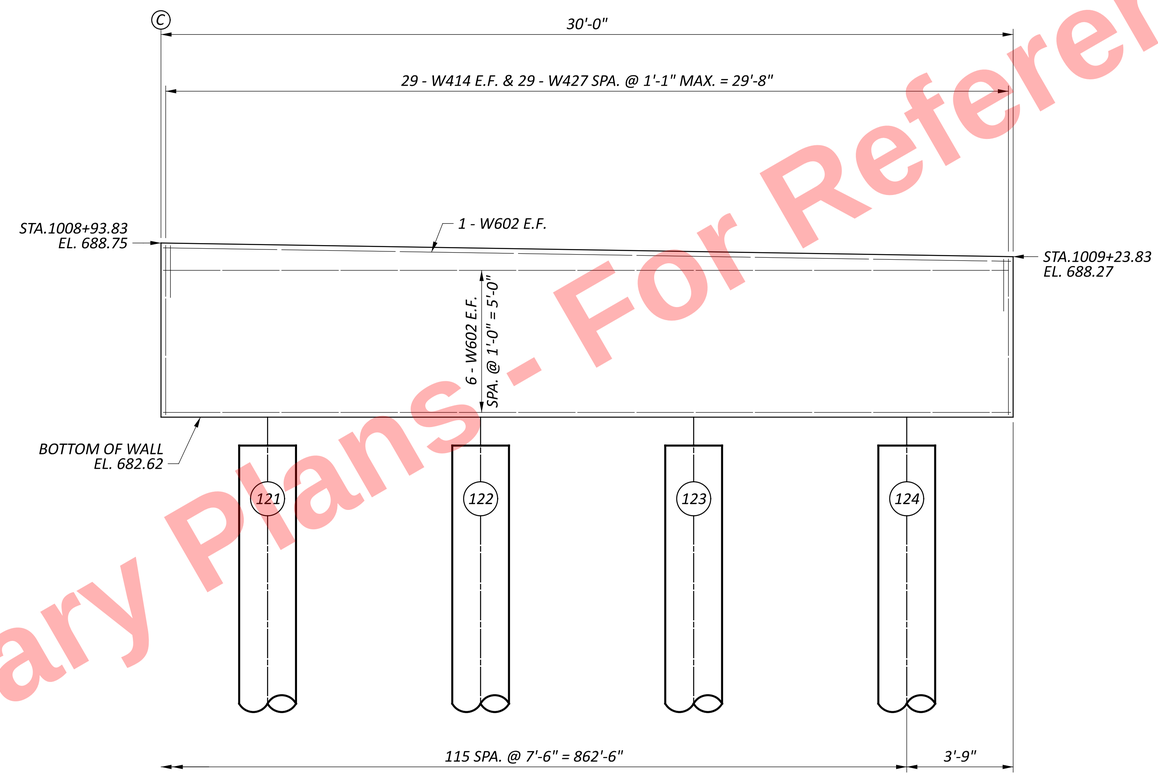
Preliminary Plans - For Reference Only



PARTIAL ELEVATION

MIN. LAP LENGTH	
NO. 4 BAR	1'-11"

LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.

WALL ELEVATION
RETAINING WALL 1D

DESIGN AGENCY: TRC

DESIGNER: CEJ

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 21 | TOTAL: 26

SHEET: P.887 | TOTAL: P.1269

CUY-77-11.41 - PART 1

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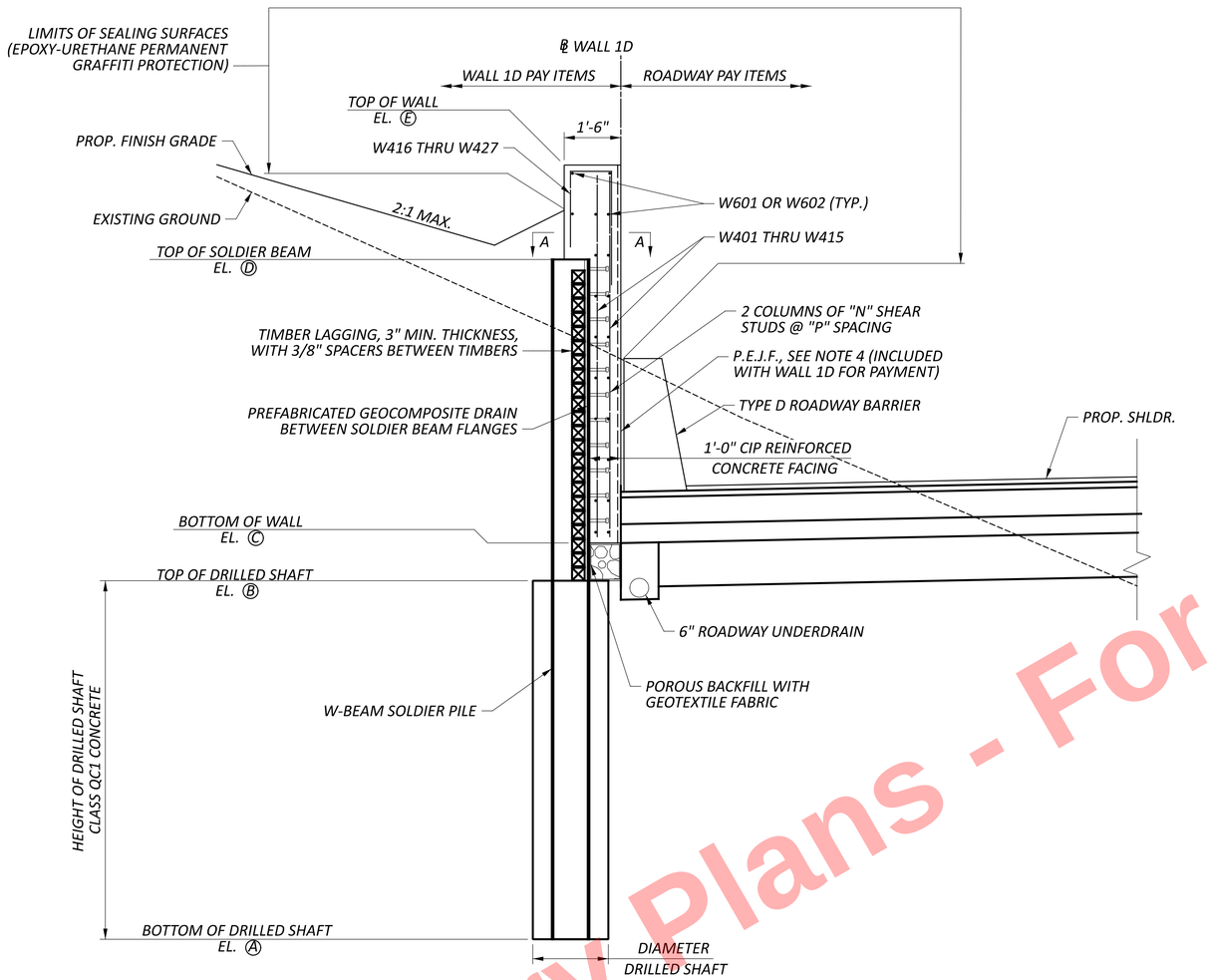
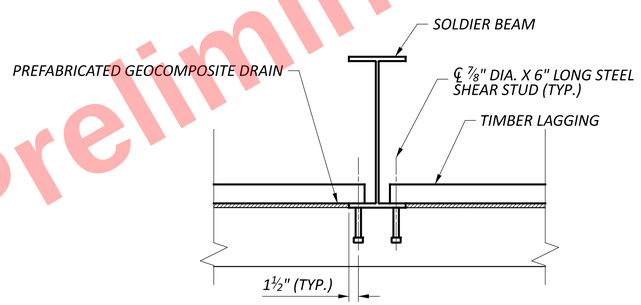
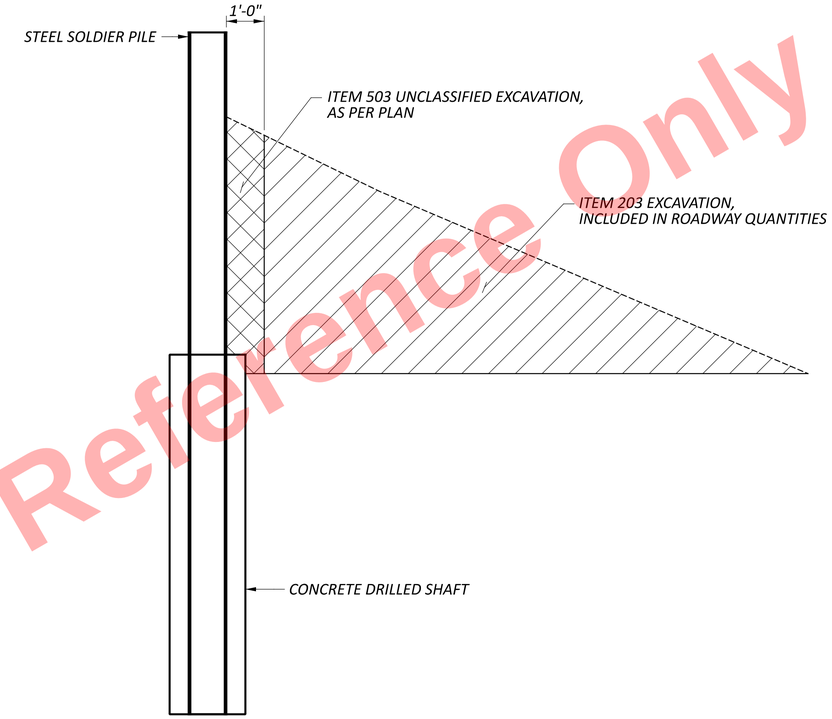


WALL 1D TYPICAL SECTION



SECTION A-A



EXCAVATION SCHEMATIC

NOTES:

1. AT THE CONTRACTOR'S OPTION, THE SOLDIER BEAM SIZE MAY BE INCREASED AT NO ADDITIONAL COST TO THE DEPARTMENT. THE PROPOSED BEAM SIZE MUST HAVE A SECTION MODULUS EQUAL TO OR GREATER THAN THE BEAM SIZE SPECIFIED. IN ADDITION, THE PROPOSED BEAM MUST ALLOW AT LEAST 3 INCHES OF CLEARANCE BETWEEN THE FLANGES AND THE SIDE OF THE DRILLED SHAFT.
2. THE NOMINAL CONCRETE FACING THICKNESS IS 12 INCHES. TO ADDRESS MISALIGNMENT OF SOLDIER BEAMS, THE CONTRACTOR MAY PROVIDE ADDITIONAL THICKNESS BUT AT NO ADDITIONAL COST TO THE DEPARTMENT.
3. INSTALL THE PREFABRICATED GEOCOMPOSITE DRAIN (PGD) BETWEEN SOLDIER BEAMS IN ACCORDANCE WITH CMS 518.06. WHERE TIMBER LAGGING IS PLACED, THE PGD SHALL BE SECURED TO THE LAGGING. IF LAGGING IS NOT REQUIRED BECAUSE THE PORTION OF THE WALL IS ABOVE THE EXISTING GROUND, THE PGD SHALL BE ATTACHED TO THE BACK SURFACE OF THE CONCRETE WALL FACING. PGD SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BELOW THE WALL FACING.
4. THICKNESS OF PREFORMED EXPANSION JOINT FILLER VARIES FROM 1" TO 2½". AN AVERAGE THICKNESS OF 2" IS ASSUMED FOR COST ESTIMATE.
5. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.
6. FOR PILE AND DRILLED SHAFT DIMENSIONS AND ELEVATIONS, SEE SHEETS 23/26 AND 24/26.

Preliminary Plans - For Reference Only

TYPICAL SECTION RETAINING WALL 1D

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:36:16 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET 22 | TOTAL 26
SHEET P.888 | TOTAL P.1269

DRILLED SHAFT NUMBER	WALL 1D STATION	OFFSET	BOTT. OF SHAFT ELEVATION (EL. A)	TOP OF SHAFT ELEVATION (EL. B)	BOTT. OF WALL ELEVATION (EL. C)	TOP OF SOLDIER BEAM ELEV. (EL. D)	TOP OF WALL ELEVATION (EL. E)	LENGTH OF SOLDIER BEAM (FEET)	DRILLED SHAFT DIAMETER (INCHES)	SOLDIER BEAM SIZE	NUM. OF SHEAR STUD PAIRS (N)	SPACING OF SHEAR STUDS (P)
1	1000+04.25	2.15 LT	662.71	689.71	690.71	704.58	707.57	41.87	36.00	W27X129	15	11.25 in
2	1000+10.75	2.15 LT	662.71	689.71	690.71	704.30	707.27	41.59	36.00	W27X129	15	11.00 in
3	1000+17.25	2.15 LT	662.71	689.71	690.71	704.01	706.97	41.30	36.00	W27X129	14	11.75 in
4	1000+23.75	2.15 LT	662.71	689.71	690.71	703.72	706.66	41.01	36.00	W27X129	14	11.50 in
5	1000+30.29	2.14 LT	663.71	689.71	690.71	703.43	706.36	39.72	36.00	W27X114	14	11.25 in
6	1000+37.04	2.14 LT	663.71	689.71	690.71	703.13	706.04	39.42	36.00	W27X114	13	11.75 in
7	1000+43.79	2.14 LT	663.71	689.71	690.71	702.84	705.73	39.13	36.00	W27X114	13	11.50 in
8	1000+50.54	2.14 LT	663.71	689.71	690.71	702.54	705.41	38.83	36.00	W27X114	13	11.25 in
9	1000+57.58	2.14 LT	662.35	689.35	690.35	702.23	705.09	39.88	36.00	W27X114	13	11.25 in
10	1000+65.08	2.14 LT	662.35	689.35	690.35	701.90	704.74	39.55	36.00	W27X114	13	11.00 in
11	1000+72.58	2.14 LT	662.35	689.35	690.35	701.57	704.39	39.22	36.00	W27X114	12	11.50 in
12	1000+80.08	2.14 LT	662.35	689.35	690.35	701.23	704.04	38.88	36.00	W27X114	12	11.25 in
13	1000+87.58	2.14 LT	662.35	689.35	690.35	700.90	703.69	38.55	36.00	W27X114	12	10.75 in
14	1000+95.08	2.14 LT	662.35	689.35	690.35	700.57	703.34	38.22	36.00	W27X114	11	11.50 in
15	1001+02.58	2.14 LT	662.35	689.35	690.35	700.24	702.99	37.89	36.00	W27X114	11	11.25 in
16	1001+10.08	2.14 LT	662.35	689.35	690.35	699.91	702.64	37.56	36.00	W27X114	11	10.75 in
17	1001+17.58	2.14 LT	661.95	688.95	689.95	699.58	702.29	37.63	36.00	W27X114	11	10.75 in
18	1001+25.08	2.14 LT	661.95	688.95	689.95	699.25	701.94	37.30	36.00	W27X114	10	11.50 in
19	1001+32.58	2.14 LT	661.95	688.95	689.95	698.92	701.59	36.97	36.00	W27X114	10	11.25 in
20	1001+40.08	2.14 LT	661.95	688.95	689.95	698.58	701.24	36.63	36.00	W27X114	10	10.75 in
21	1001+47.58	2.14 LT	661.95	688.95	689.95	698.25	700.89	36.30	36.00	W27X114	9	11.50 in
22	1001+55.08	2.14 LT	661.95	688.95	689.95	697.92	700.54	35.97	36.00	W27X114	9	11.00 in
23	1001+62.58	2.14 LT	661.95	688.95	689.95	697.59	700.19	35.64	36.00	W27X114	9	10.50 in
24	1001+70.08	2.14 LT	661.95	688.95	689.95	697.26	699.84	35.31	36.00	W27X114	8	11.50 in
25	1001+77.58	2.14 LT	661.47	688.47	689.47	696.93	699.49	35.46	36.00	W27X114	8	11.75 in
26	1001+85.08	2.14 LT	661.47	688.47	689.47	696.60	699.14	35.13	36.00	W27X114	8	11.25 in
27	1001+92.58	2.14 LT	661.47	688.47	689.47	696.27	698.79	34.80	36.00	W27X114	8	10.75 in
28	1002+00.08	2.14 LT	661.47	688.47	689.47	695.94	698.44	34.47	36.00	W27X114	7	11.75 in
29	1002+07.58	1.90 LT	672.47	688.47	689.47	695.71	698.21	23.24	30.00	W21X93	7	11.25 in
30	1002+15.08	1.90 LT	672.47	688.47	689.47	695.58	698.08	23.11	30.00	W21X93	7	11.00 in
31	1002+22.58	1.90 LT	672.47	688.47	689.47	695.45	697.95	22.98	30.00	W21X93	7	10.75 in
32	1002+30.08	1.90 LT	672.47	688.47	689.47	695.32	697.83	22.85	30.00	W21X93	7	10.50 in
33	1002+37.58	1.90 LT	672.14	688.14	689.14	695.20	697.70	23.06	30.00	W21X93	7	11.00 in
34	1002+45.08	1.90 LT	672.14	688.14	689.14	695.07	697.57	22.93	30.00	W21X93	7	10.75 in
35	1002+52.58	1.90 LT	672.14	688.14	689.14	694.94	697.45	22.80	30.00	W21X93	7	10.50 in
36	1002+60.08	1.90 LT	672.14	688.14	689.14	694.82	697.32	22.68	30.00	W21X93	7	10.25 in
37	1002+67.58	1.90 LT	671.80	687.80	688.80	694.69	697.19	22.89	30.00	W21X93	7	10.75 in
38	1002+75.08	1.90 LT	671.80	687.80	688.80	694.56	697.07	22.76	30.00	W21X93	7	10.50 in
39	1002+82.58	1.90 LT	671.80	687.80	688.80	694.43	696.94	22.63	30.00	W21X93	7	10.25 in
40	1002+90.08	1.90 LT	671.80	687.80	688.80	694.31	696.81	22.51	30.00	W21X93	7	10.00 in
41	1002+97.58	1.67 LT	672.47	687.47	688.47	694.18	696.69	21.71	24.00	W16X45	7	10.25 in
42	1003+05.08	1.67 LT	672.47	687.47	688.47	694.05	696.56	21.58	24.00	W16X45	7	10.00 in
43	1003+12.58	1.67 LT	672.47	687.47	688.47	693.92	696.43	21.45	24.00	W16X45	6	11.75 in
44	1003+20.08	1.67 LT	672.47	687.47	688.47	693.80	696.31	21.33	24.00	W16X45	6	11.50 in
45	1003+27.58	1.67 LT	672.14	687.14	688.14	693.67	696.18	21.53	24.00	W16X45	7	10.00 in
46	1003+35.08	1.67 LT	672.14	687.14	688.14	693.54	696.05	21.40	24.00	W16X45	6	11.75 in
47	1003+42.58	1.67 LT	672.14	687.14	688.14	693.42	695.93	21.28	24.00	W16X45	6	11.25 in
48	1003+50.08	1.67 LT	672.14	687.14	688.14	693.29	695.80	21.15	24.00	W16X45	6	11.00 in
49	1003+57.58	1.67 LT	671.79	686.79	687.79	693.16	695.67	21.37	24.00	W16X45	6	11.50 in
50	1003+65.08	1.67 LT	671.79	686.79	687.79	693.03	695.55	21.24	24.00	W16X45	6	11.25 in
51	1003+72.58	1.67 LT	671.79	686.79	687.79	692.91	695.42	21.12	24.00	W16X45	6	11.00 in
52	1003+80.08	1.67 LT	671.79	686.79	687.79	692.78	695.29	20.99	24.00	W16X45	6	10.75 in
53	1003+87.58	1.67 LT	672.40	686.40	687.40	692.65	695.17	20.25	24.00	W16X45	6	11.25 in
54	1003+95.08	1.67 LT	672.40	686.40	687.40	692.52	695.04	20.12	24.00	W16X45	6	11.00 in
55	1004+02.58	1.67 LT	672.40	686.40	687.40	692.40	694.91	20.00	24.00	W16X45	6	10.75 in
56	1004+10.08	1.67 LT	672.40	686.40	687.40	692.27	694.79	19.87	24.00	W16X45	6	10.25 in
57	1004+17.58	1.67 LT	672.40	686.40	687.40	692.14	694.66	19.74	24.00	W16X45	6	10.00 in
58	1004+25.08	1.67 LT	672.40	686.40	687.40	692.01	694.53	19.61	24.00	W16X45	6	9.75 in
59	1004+32.58	1.67 LT	672.40	686.40	687.40	691.89	694.41	19.49	24.00	W16X45	5	11.75 in
60	1004+40.08	1.67 LT	672.40	686.40	687.40	691.76	694.28	19.36	24.00	W16X45	5	11.50 in
61	1004+47.58	1.67 LT	672.03	686.03	687.03	691.63	694.15	19.60	24.00	W16X45	6	9.75 in
62	1004+55.08	1.67 LT	672.03	686.03	687.03	691.51	694.03	19.48	24.00	W16X45	5	11.75 in

Preliminary Plans - For Reference Only

NOTES:

1. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.
2. FOR TYPICAL WALL SECTION, SEE SHEET 22/26.
3. FOR WALL FACING ELEVATIONS, SEE SHEETS 6/26 THRU 21/26.

PILE AND DRILLED SHAFT SIZE AND DIMENSION TABLE 1 OF 2
RETAINING WALL 1D

DESIGN AGENCY TRC

DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 23 | TOTAL 26

SHEET P.889 | TOTAL P.1269

CUY-77-11.41 - PART 1

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DRILLED SHAFT NUMBER	WALL 1D STATION	OFFSET	BOTT. OF SHAFT ELEVATION (EL. A)	TOP OF SHAFT ELEVATION (EL. B)	BOTT. OF WALL ELEVATION (EL. C)	TOP OF SOLDIER BEAM ELEV. (EL. D)	TOP OF WALL ELEVATION (EL. E)	LENGTH OF SOLDIER BEAM (FEET)	DRILLED SHAFT DIAMETER (INCHES)	SOLDIER BEAM SIZE	NUM. OF SHEAR STUD PAIRS (N)	SPACING OF SHEAR STUDS (P)
63	1004+62.58	1.67 LT	672.03	686.03	687.03	691.38	693.90	19.35	24.00	W16X45	5	11.50 in
64	1004+70.08	1.67 LT	672.03	686.03	687.03	691.25	693.77	19.22	24.00	W16X45	5	11.00 in
65	1004+77.58	1.67 LT	672.03	686.03	687.03	691.12	693.65	19.09	24.00	W16X45	5	10.75 in
66	1004+85.08	1.67 LT	672.03	686.03	687.03	691.00	693.52	18.97	24.00	W16X45	5	10.25 in
67	1004+92.58	1.67 LT	672.03	686.03	687.03	690.87	693.39	18.84	24.00	W16X45	5	10.00 in
68	1005+00.08	1.67 LT	672.03	686.03	687.03	690.74	693.27	18.71	24.00	W16X45	5	9.50 in
69	1005+07.58	1.66 LT	673.63	685.63	686.63	690.61	693.14	16.98	24.00	W16X36	5	10.25 in
70	1005+15.08	1.66 LT	673.63	685.63	686.63	690.49	693.01	16.86	24.00	W16X36	5	10.00 in
71	1005+22.58	1.66 LT	673.63	685.63	686.63	690.36	692.89	16.73	24.00	W16X36	5	9.50 in
72	1005+30.08	1.66 LT	673.63	685.63	686.63	690.23	692.76	16.60	24.00	W16X36	5	9.25 in
73	1005+37.58	1.66 LT	673.63	685.63	686.63	690.11	692.63	16.48	24.00	W16X36	4	11.75 in
74	1005+45.08	1.66 LT	673.63	685.63	686.63	689.98	692.51	16.35	24.00	W16X36	4	11.25 in
75	1005+52.58	1.66 LT	673.63	685.63	686.63	689.85	692.38	16.22	24.00	W16X36	4	10.75 in
76	1005+60.08	1.66 LT	673.63	685.63	686.63	689.72	692.25	16.09	24.00	W16X36	4	10.25 in
77	1005+67.58	1.66 LT	673.16	685.16	686.16	689.60	692.16	16.44	24.00	W16X36	4	11.50 in
78	1005+75.08	1.66 LT	673.16	685.16	686.16	689.47	692.10	16.31	24.00	W16X36	4	11.00 in
79	1005+82.58	1.66 LT	673.16	685.16	686.16	689.34	692.04	16.18	24.00	W16X36	4	10.50 in
80	1005+90.08	1.66 LT	673.16	685.16	686.16	689.21	691.98	16.05	24.00	W16X36	4	10.00 in
81	1005+97.58	1.66 LT	673.16	685.16	686.16	689.09	691.92	15.93	24.00	W16X36	4	9.50 in
82	1006+05.08	1.66 LT	673.16	685.16	686.16	688.96	691.86	15.80	24.00	W16X36	4	9.00 in
83	1006+12.58	1.66 LT	673.16	685.16	686.16	688.83	691.81	15.67	24.00	W16X36	4	8.50 in
84	1006+20.08	1.66 LT	673.16	685.16	686.16	688.71	691.75	15.55	24.00	W16X36	4	8.00 in
85	1006+27.58	1.66 LT	672.69	684.69	685.69	688.58	691.69	15.89	24.00	W16X36	4	9.50 in
86	1006+35.08	1.66 LT	672.69	684.69	685.69	688.45	691.63	15.76	24.00	W16X36	4	9.00 in
87	1006+42.58	1.66 LT	672.69	684.69	685.69	688.32	691.57	15.63	24.00	W16X36	4	8.50 in
88	1006+50.08	1.66 LT	672.69	684.69	685.69	688.20	691.51	15.51	24.00	W16X36	4	8.00 in
89	1006+57.58	1.66 LT	672.69	684.69	685.69	688.07	691.45	15.38	24.00	W16X36	3	11.25 in
90	1006+65.08	1.66 LT	672.69	684.69	685.69	687.94	691.40	15.25	24.00	W16X36	3	10.50 in
91	1006+72.58	1.66 LT	672.69	684.69	685.69	687.81	691.34	15.12	24.00	W16X36	3	9.50 in
92	1006+80.08	1.66 LT	672.69	684.69	685.69	687.69	691.29	15.00	24.00	W16X36	3	8.75 in
93	1006+87.58	1.66 LT	672.25	684.25	685.25	687.56	691.24	15.31	24.00	W16X36	3	10.75 in
94	1006+95.08	1.66 LT	672.25	684.25	685.25	687.43	691.18	15.18	24.00	W16X36	3	10.00 in
95	1007+02.58	1.66 LT	672.25	684.25	685.25	687.31	691.13	15.06	24.00	W16X36	3	9.25 in
96	1007+10.08	1.66 LT	672.25	684.25	685.25	687.18	691.07	14.93	24.00	W16X36	3	8.50 in
97	1007+17.58	1.66 LT	672.25	684.25	685.25	687.05	691.02	14.80	24.00	W16X36	3	7.75 in
98	1007+25.08	1.66 LT	672.25	684.25	685.25	686.92	690.97	14.67	24.00	W16X36	3	7.00 in
99	1007+32.58	1.66 LT	672.25	684.25	685.25	686.80	690.91	14.55	24.00	W16X36	3	6.25 in
100	1007+40.08	1.66 LT	672.25	684.25	685.25	686.67	690.86	14.42	24.00	W16X36	2	11.00 in
101	1007+47.58	1.66 LT	671.88	683.88	684.88	686.54	690.78	14.66	24.00	W16X36	3	6.75 in
102	1007+55.08	1.66 LT	671.88	683.88	684.88	686.41	690.69	14.53	24.00	W16X36	3	6.00 in
103	1007+62.58	1.66 LT	671.88	683.88	684.88	686.29	690.59	14.41	24.00	W16X36	2	10.75 in
104	1007+70.08	1.66 LT	671.88	683.88	684.88	686.16	690.50	14.28	24.00	W16X36	2	9.25 in
105	1007+77.58	1.66 LT	671.46	683.46	684.46	686.03	690.41	14.57	24.00	W16X36	3	6.25 in
106	1007+85.08	1.66 LT	671.46	683.46	684.46	685.90	690.31	14.44	24.00	W16X36	2	11.25 in
107	1007+92.58	1.66 LT	671.46	683.46	684.46	685.78	690.22	14.32	24.00	W16X36	2	9.75 in
108	1008+00.08	1.66 LT	671.46	683.46	684.46	685.65	690.12	14.19	24.00	W16X36	2	8.25 in
109	1008+07.58	1.66 LT	671.05	683.05	684.05	685.52	690.03	14.47	24.00	W16X36	2	11.50 in
110	1008+15.08	1.66 LT	671.05	683.05	684.05	685.40	689.94	14.35	24.00	W16X36	2	10.00 in
111	1008+22.58	1.66 LT	671.05	683.05	684.05	685.27	689.84	14.22	24.00	W16X36	2	8.50 in
112	1008+30.08	1.66 LT	671.05	683.05	684.05	685.14	689.75	14.09	24.00	W16X36	2	7.00 in
113	1008+37.58	1.66 LT	670.64	682.64	683.64	685.01	689.64	14.37	24.00	W16X36	2	10.25 in
114	1008+45.08	1.66 LT	670.64	682.64	683.64	684.89	689.52	14.25	24.00	W16X36	2	8.75 in
115	1008+52.58	1.66 LT	670.64	682.64	683.64	684.76	689.40	14.12	24.00	W16X36	2	7.25 in
116	1008+60.08	1.66 LT	670.64	682.64	683.64	684.63	689.28	13.99	24.00	W16X36	2	5.75 in
117	1008+67.58	1.66 LT	670.16	682.16	683.16	684.50	689.16	14.34	24.00	W16X36	2	10.00 in
118	1008+75.08	1.66 LT	670.16	682.16	683.16	684.38	689.04	14.22	24.00	W16X36	2	8.50 in
119	1008+82.58	1.66 LT	670.16	682.16	683.16	684.25	688.93	14.09	24.00	W16X36	2	7.00 in
120	1008+90.08	1.66 LT	670.16	682.16	683.16	684.12	688.81	13.96	24.00	W16X36	2	5.50 in
121	1008+97.58	1.66 LT	669.62	681.62	682.62	684.00	688.69	14.38	24.00	W16X36	2	10.50 in
122	1009+05.08	1.66 LT	669.62	681.62	682.62	683.87	688.57	14.25	24.00	W16X36	2	8.75 in
123	1009+12.58	1.66 LT	669.62	681.62	682.62	683.74	688.45	14.12	24.00	W16X36	2	7.25 in
124	1009+20.08	1.66 LT	669.62	681.62	682.62	683.61	688.33	13.99	24.00	W16X36	2	5.75 in

Preliminary Plans - For Reference Only

NOTES:

1. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/26.
2. FOR TYPICAL WALL SECTION, SEE SHEET 22/26.
3. FOR WALL FACING ELEVATIONS, SEE SHEETS 6/26 THRU 21/26.

PILE AND DRILLED SHAFT SIZE AND DIMENSION TABLE 2 OF 2
RETAINING WALL 1D

DESIGN AGENCY: TRC

DESIGNER: CEJ

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 24 | TOTAL: 26

SHEET: P.890 | TOTAL: P.1269

CUY-77-11.41 - PART 1

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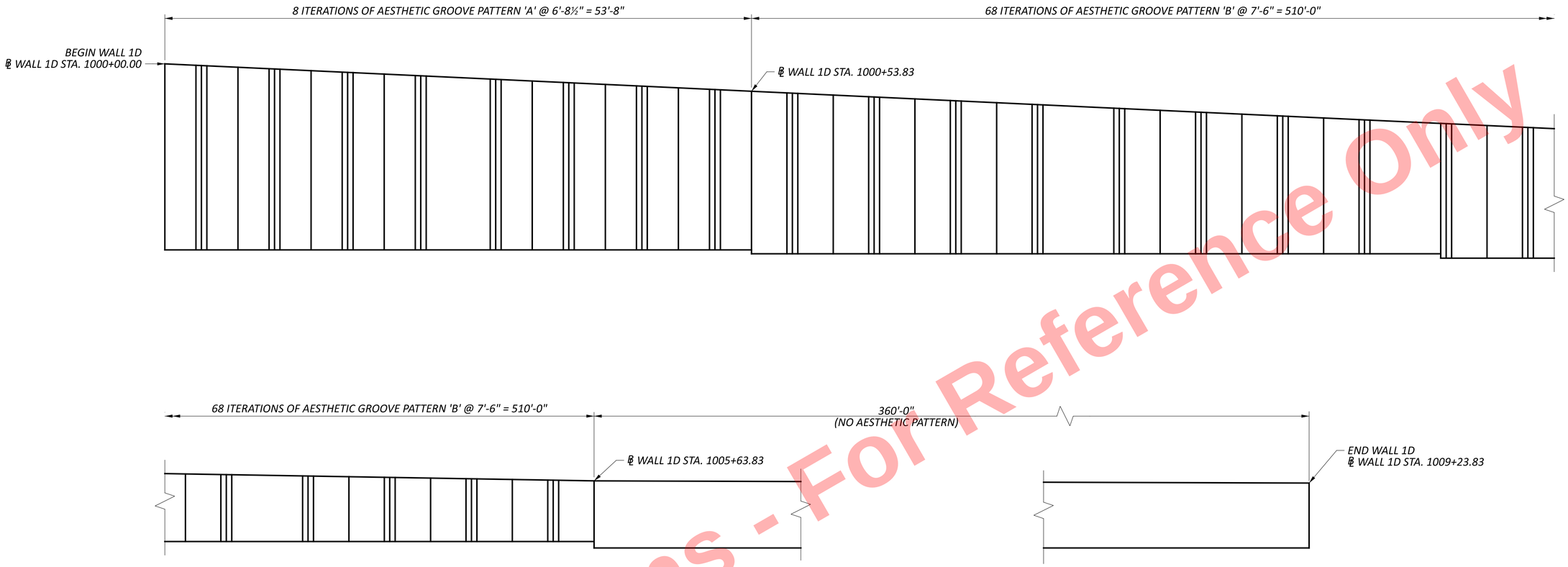
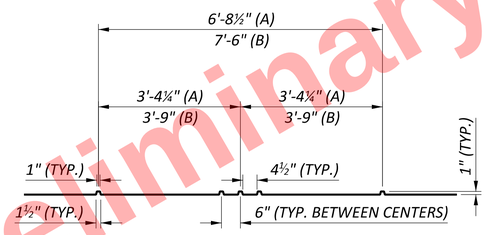


AESTHETIC WALL FACING ELEVATION



AESTHETIC GROOVE DETAIL

LEGEND:

(A) - AESTHETIC GROOVE PATTERN 'A'

(B) - AESTHETIC GROOVE PATTERN 'B'

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. THE AESTHETIC VERTICAL GROOVE PATTERN MAY TERMINATE WITHIN THE FACING HEIGHT BUT AT MINIMUM MUST EXTEND FROM THE TOP TO 4'-0" FROM THE BOTTOM OF THE WALL.
3. PAYMENT FOR ALL FORMWORK, MATERIALS, EQUIPMENT AND LABOR REQUIRED TO PRODUCE THE AESTHETIC WALL FACING PATTERN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 511, CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN.
4. FOR WALL FACING ELEVATIONS, SEE SHEETS 6/26 THRU 21/26.

Preliminary Plans - For Reference Only

AESTHETIC DETAILS
RETAINING WALL 1D

DESIGN AGENCY
TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET / TOTAL	25 / 26
SHEET / TOTAL	P.891 / P.1269

CUY-77-11.41 - PART 1

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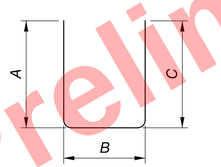
MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
W401	52	15'-5"	536	STR							
W402	52	14'-2"	492	STR							
W403	58	13'-2"	510	STR							
W404	58	11'-9"	455	STR							
W405	58	10'-9"	416	STR							
W406	58	9'-4"	362	STR							
W407	58	8'-5"	326	STR							
W408	58	7'-11"	307	STR							
W409	116	7'-7"	588	STR							
W410	116	7'-3"	562	STR							
W411	116	6'-11"	536	STR							
W412	116	6'-4"	491	STR							
W413	116	5'-8"	439	STR							
W414	580	5'-2"	2002	STR							
W415	174	5'-5"	630	STR							
W416	52	6'-8"	232	2	2'-7"	1'-1"	3'-3"				
W417	58	6'-8"	258	2	2'-6"	1'-1"	3'-4"				
W418	87	6'-5"	373	2	2'-3"	1'-1"	3'-4"				
W419	348	5'-7"	1279	2	2'-2"	1'-1"	2'-6"				
W420	29	5'-4"	103	2	2'-4"	1'-1"	2'-2"				
W421	29	5'-7"	108	2	2'-7"	1'-1"	2'-2"				
W422	29	5'-10"	113	2	2'-10"	1'-1"	2'-2"				
W423	29	6'-1"	118	2	3'-1"	1'-1"	2'-2"				
W424	29	6'-6"	126	2	3'-5"	1'-1"	2'-2"				
W425	29	6'-9"	131	2	3'-9"	1'-1"	2'-2"				
W426	58	7'-2"	278	2	4'-0"	1'-1"	2'-4"				
W427	116	7'-4"	568	2	4'-3"	1'-1"	2'-2 ½"				
W601	42	26'-8"	1682	STR							
W602	484	29'-8"	21567	STR							
W603	34	26'-6"	1353	STR							
		TOTAL	36,941								



TYPE-2

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.
2. ALL REINFORCING STEEL TO BE EPOXY COATED.

Preliminary Plans - For Reference Only

REINFORCING STEEL LIST
RETAINING WALL 1D

DESIGN AGENCY TRC
DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 26 TOTAL 26
SHEET P.892 TOTAL P.1269

CUY-77-11.41 - PART 1

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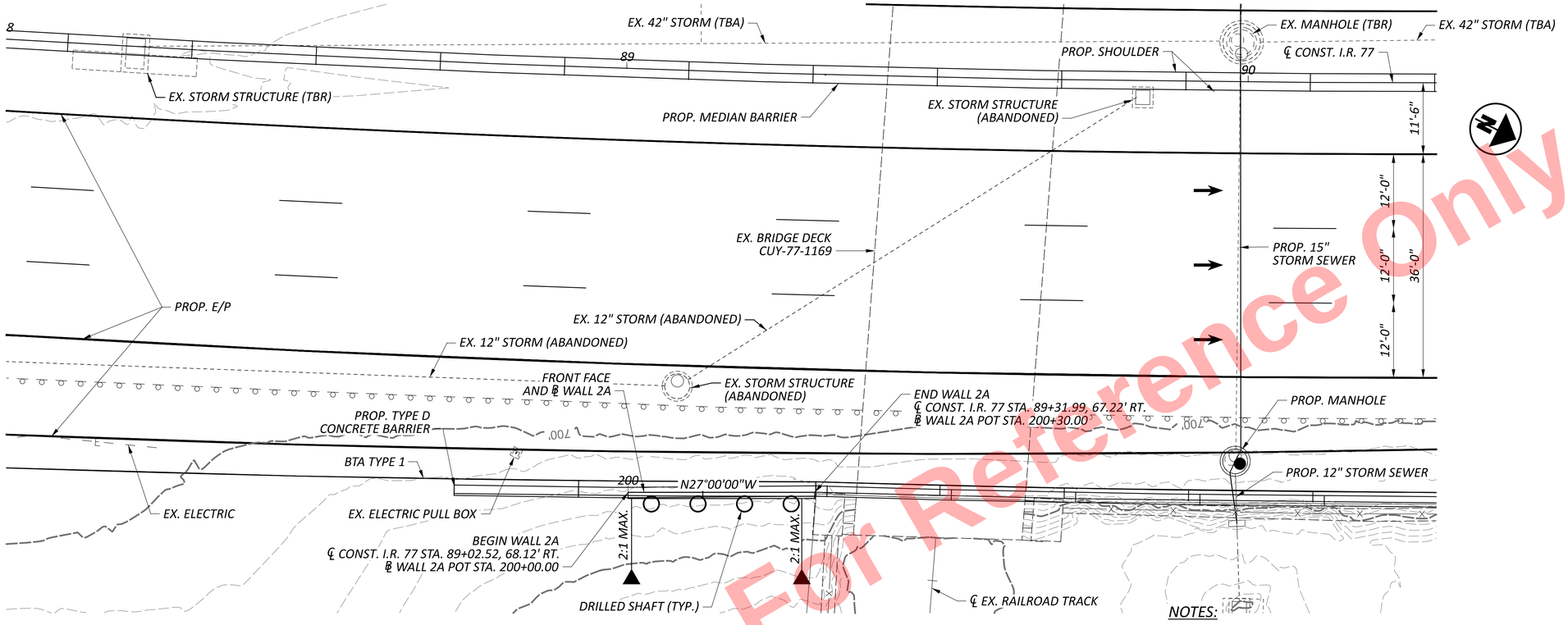
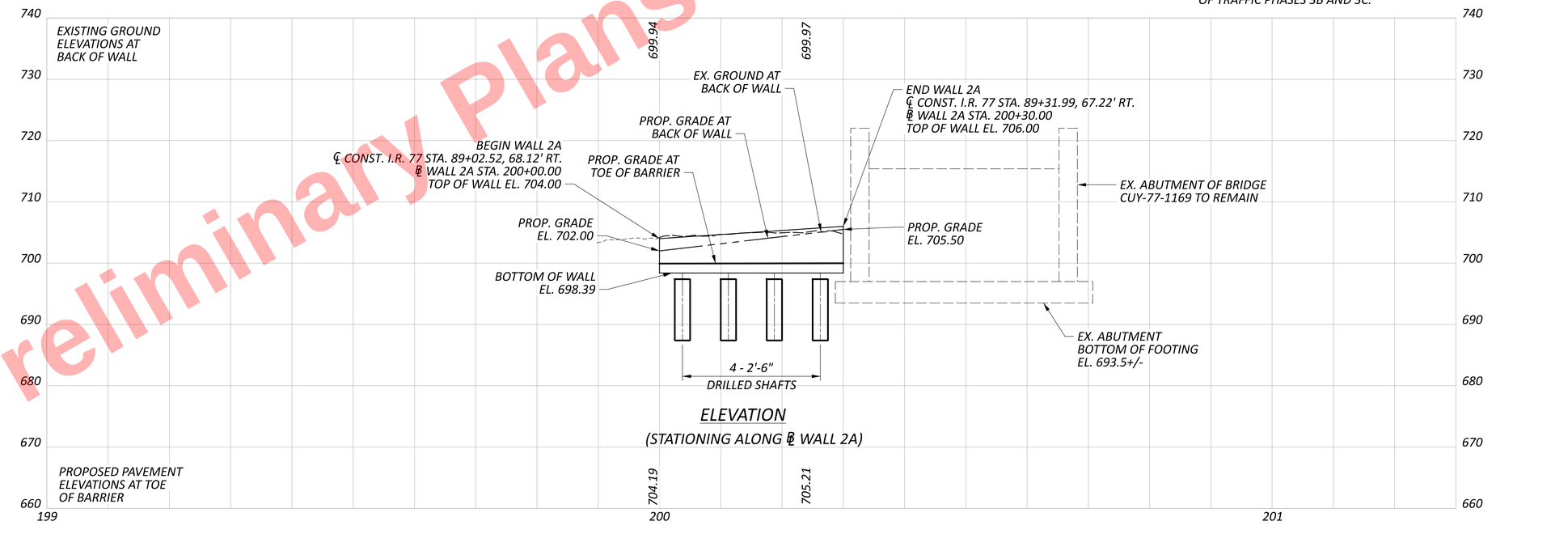


PLAN

NOTES:

1. EARTHWORK LIMITS ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 3B AND 3C.



ELEVATION

(STATIONING ALONG ℄ WALL 2A)

Preliminary Plans - Pending
For Reference Only

SITE PLAN
RETAINING WALL 2A

DESIGN AGENCY: TRC

DESIGNER: CEJ

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 1 | TOTAL: 6

SHEET: P.893 | TOTAL: P.1269

CUY-77-11.41 - PART 1

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DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 10TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

EPOXY COATED REINFORCING STEEL - MIN. YIELD STRENGTH 60 KSI

STEEL SOLDIER PILES - ASTM A572 - YIELD STRENGTH 50 KSI

ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W21x48

THIS WORK CONSISTS OF FURNISHING AND PLACING STEEL SOLDIER PILES INTO DRILLED HOLES. FURNISH SOLDIER PILES CONSISTING OF STRUCTURAL STEEL MEMBERS THAT MEET THE PLAN REQUIREMENTS AND CONFORM TO ASTM A572, GRADE 50. DO NOT FIELD WELD OR SPLICE STEEL SOLDIER PILES.

THE DEPARTMENT WILL MEASURE SOLDIER PILES ALONG THE AXIS OF THE SOLDIER PILE FROM THE TOP OF WALL ELEVATION TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER. THE DEPARTMENT WILL PAY FOR SOLDIER PILES AT THE CONTRACT UNIT PRICE PER FOOT FOR ITEM 507, STEEL PILES, MISC.: SOLDIER PILES, W16x36.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

ITEM 512 - SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION)

APPLY A PERMANENT GRAFFITI COATING QUALIFIED ACCORDING TO S1083 THAT IS COMPATIBLE WITH THE CONCRETE SEALER OVER WHICH IT IS APPLIED. APPLY THE GRAFFITI COATING IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.

ITEM 513 - WELDED STUD SHEAR CONNECTORS, AS PER PLAN

SOLDIER PILES WHICH REQUIRE HEADED STUDS ARE SHOWN IN THE TABLE ON SHEET 14/16. WELD HEADED STEEL STUDS TO THE FLANGES OF THE SOLDIER PILE IN ORDER TO CONNECT THE CAST-IN-PLACE CONCRETE WALL FACING TO THE SOLDIER PILE. ATTACH HEADED STUDS ACCORDING TO C&MS 513.22 AND AS SHOWN IN THE PLANS. THE CONTRACTOR MAY ATTACH THE STUDS EITHER BEFORE PLACING THE SOLDIER PILE IN THE DRILLED HOLE OR AFTER EXCAVATING IN FRONT OF THE WALL. PROTECT THE HEADED STUDS FROM DAMAGE UNTIL THE CONCRETE WALL FACING IS POURED. REPAIR OR REPLACE DAMAGED HEADED STUDS AT NO EXPENSE TO THE DEPARTMENT.

ITEM 524 - DRILLED SHAFT, 30" DIAMETER ABOVE BEDROCK, AS PER PLAN

THIS WORK CONSISTS OF FURNISHING AND INSTALLING DRILLED SHAFTS FOR SOLDIER PILE AND LAGGING WALLS. THE DRILLED SHAFTS ARE REINFORCED WITH SOLDIER PILES INSTEAD OF REINFORCING STEEL CAGES. THE SOLDIER PILES EXTEND ABOVE THE TOP OF THE DRILLED SHAFT. FURNISH AND INSTALL THE DRILLED SHAFTS ACCORDING TO C&MS 524 EXCEPT AS MODIFIED AND SUPPLEMENTED BELOW.

EXCAVATE THE HOLE FOR THE DRILLED SHAFT WITHIN 3 INCHES OF THE PLAN LOCATION. PLACE THE SOLDIER PILE WITHIN THE HOLE SO IT IS VERTICAL AND NOT INCLINED MORE THAN 1 INCH BETWEEN TOP AND BOTTOM. PLACE THE SOLDIER PILE SO THAT THE FLANGES ARE PARALLEL TO THE CENTERLINE OF THE ROW OF DRILLED SHAFTS. DO NOT ALLOW THE ORIENTATION OF THE FLANGES TO VARY BY MORE THAN 10 DEGREES. SUPPORT THE SOLDIER PILE SO THAT IT DOES NOT MOVE DURING CONCRETE PLACEMENT.

USE CLASS QC1 CONCRETE ACCORDING TO C&MS 511. PLACE CONCRETE TO THE ELEVATION FOR THE TOP OF THE DRILLED SHAFT. THE CONTRACTOR MAY PLACE CONCRETE USING THE FREE FALL METHOD PROVIDED THE DEPTH OF WATER IS LESS THAN 6 INCHES AND THE CONCRETE FALLS WITHOUT STRIKING THE SIDES OF THE HOLE. POURING CONCRETE ALONG THE WEB OF THE SOLDIER PILE IS ACCEPTABLE.

CHECK THE POSITION, THE VERTICAL ALIGNMENT AND ORIENTATION OF THE SOLDIER PILE IMMEDIATELY AFTER CONCRETE PLACEMENT. MAKE CORRECTIONS AS NECESSARY TO MEET THE ABOVE TOLERANCES.

FILL THE HOLE ABOVE THE BOTTOM OF THE LAGGING TO THE EXISTING GROUND SURFACE WITH ITEM 613 LOW STRENGTH MORTAR BACKFILL (LSM).

REMOVE CONCRETE AND LSM AS NECESSARY FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE THE LAGGING. PLACE THE LAGGING SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING. WAIT AT LEAST 12 HOURS AFTER PLACING CONCRETE IN THE DRILLED SHAFTS BEFORE PLACING LAGGING.

SEQUENCE OF INSTALLATION: INSTALL THE DRILLED SHAFTS IN A SEQUENCE SUCH THAT NO DRILLED SHAFT IS INSTALLED ADJACENT TO EITHER AN OPEN DRILLED SHAFT EXCAVATION OR A DRILLED SHAFT IN WHICH THE CONCRETE HAS LESS THAN A 48 HOUR CURE. INSTALLING THE SHAFTS IN AN ALTERNATING SEQUENCE OR ANY OTHER SEQUENCE THAT MEETS THIS CRITERIA IS PERMISSIBLE.

PROTECTION OF UNATTENDED OPEN SHAFTS: COVER UNATTENDED OPEN SHAFTS. USE TEMPORARY COVERS OF ADEQUATE STRENGTH TO PREVENT A PERSON OR ANIMAL FROM FALLING IN. LEAVE NO DRILLED SHAFT EXCAVATION UN-POURED OVERNIGHT.

THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHOD USED TO CONSTRUCT THE DRILLED SHAFTS AND PLACE LAGGING. ANY TEMPORARY GRADING, EXCAVATION, EMBANKMENT, AGGREGATE, DRAINAGE, SHEETING, ETC. NEEDED TO COMPLETE THE WORK IS INCLUDED IN THE BID PRICE FOR THE DRILLED SHAFTS. THE COST OF ANY EXCAVATION AND SUBSEQUENT REPLACEMENT OF EMBANKMENT (PER ITEM 203 EMBANKMENT) IS INCLUDED IN THE VARIOUS BID ITEMS FOR THE DRILLED SHAFTS AND LAGGING, UNLESS SEPARATELY ITEMIZED. NO SEPARATE PAYMENT WILL BE MADE.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE DRILLED SHAFTS ABOVE BEDROCK, AS PER PLAN, ALONG THE AXIS OF THE DRILLED SHAFT FROM THE EXISTING GROUND SURFACE TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER.

PAYMENT IS FULL COMPENSATION FOR CONSTRUCTING THE DRILLED SHAFTS, INCLUDING FURNISHING AND PLACING CONCRETE AND LSM, AND REMOVAL OF CONCRETE OR LSM FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE LAGGING.

ITEM SPECIAL - RETAINING WALL, TIMBER LAGGING

THIS WORK CONSISTS OF FURNISHING AND PLACING TIMBER LAGGING BETWEEN THE SOLDIER PILES AS TEMPORARY SUPPORT FOR THE RETAINED SOIL. FURNISH TIMBER LAGGING CONSISTING OF CONSTRUCTION GRADE, UNTREATED HARDWOOD WITH A MINIMUM THICKNESS OF 3 INCHES. TO PERMIT DRAINAGE, PROVIDE 1/4 TO 1/2-INCH SPACES BETWEEN LAGGING BOARDS USING 3/8-INCH THICK SPACER BLOCKS OR OTHER MEANS ACCEPTABLE TO THE ENGINEER. PLACE THE LAGGING BOARDS BETWEEN THE FLANGES OF THE SOLDIER PILES AND BEARING AGAINST THE FLANGES ON THE EXPOSED SIDE OF THE WALL SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING BOARDS. PERFORM EXCAVATION FOR PLACEMENT OF THE LAGGING IN SUCH A MANNER THAT THE LAGGING IS TIGHT AGAINST THE EXCAVATION CUT FACE. BACKFILL ANY VOIDS BEHIND THE LAGGING WITH A SUITABLE COMPACTED GRANULAR MATERIAL CONFORMING TO C&MS 703.16.C, ACCEPTABLE TO THE ENGINEER. THE COST OF ANY SUCH BACKFILLING REQUIRED, INCLUDING MATERIAL, PLACEMENT AND COMPACTION, IS INCIDENTAL TO THE COST OF LAGGING.

THE DEPARTMENT WILL PAY FOR TIMBER LAGGING AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR ITEM SPECIAL, RETAINING WALL, TIMBER LAGGING.

ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

℄ - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

Preliminary Plans - For Reference Only

GENERAL NOTES
RETAINING WALL 2A

DESIGN AGENCY
TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET / TOTAL	2 / 6
SHEET / TOTAL	P.894 / P.1269

CUY-77-11.41 - PART 1

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ESTIMATED QUANTITIES (WALL 2A)

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
503	21101	9	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN	5
507	00400	111	FT	STEEL PILES, MISC.: SOLDIER PILES, W21x48	2
509	10000	1155	LB	EPOXY COATED STEEL REINFORCEMENT	
511	46012	9	CY	CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING	
512	10001	15	SY	SEALING OF CONCRETE SURFACES, AS PER PLAN (PERMANENT GRAFFITI PROTECTION)	2
512	10101	15	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	2
513	20001	44	EACH	WELDED STUD SHEAR CONNECTORS, AS PER PLAN	2
516	13600	53	SF	1" PREFORMED EXPANSION JOINT FILLER	
516	13800	53	SF	1-1/2" PREFORMED EXPANSION JOINT FILLER	
516	13900	9	SF	2" PREFORMED EXPANSION JOINT FILLER	
518	20000	15	SY	PREFABRICATED GEOCOMPOSITE DRAIN	
518	21200	2	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
524	94603	80	FT	DRILLED SHAFTS, 30" DIAMETER, ABOVE BEDROCK, AS PER PLAN	2
SPECIAL	53051020	129	SF	RETAINING WALL, TIMBER LAGGING	2

Preliminary Plans - For Reference Only

ESTIMATED QUANTITIES
RETAINING WALL 2A

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 3 | TOTAL 6

SHEET P.895 | TOTAL P.1269

CUY-77-11.41 - PART 1

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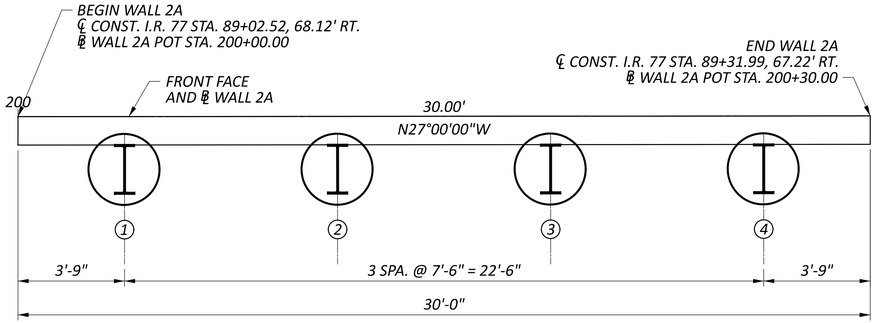
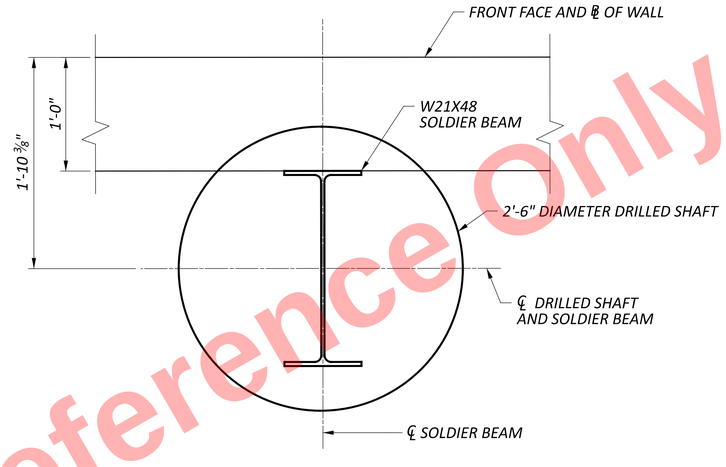
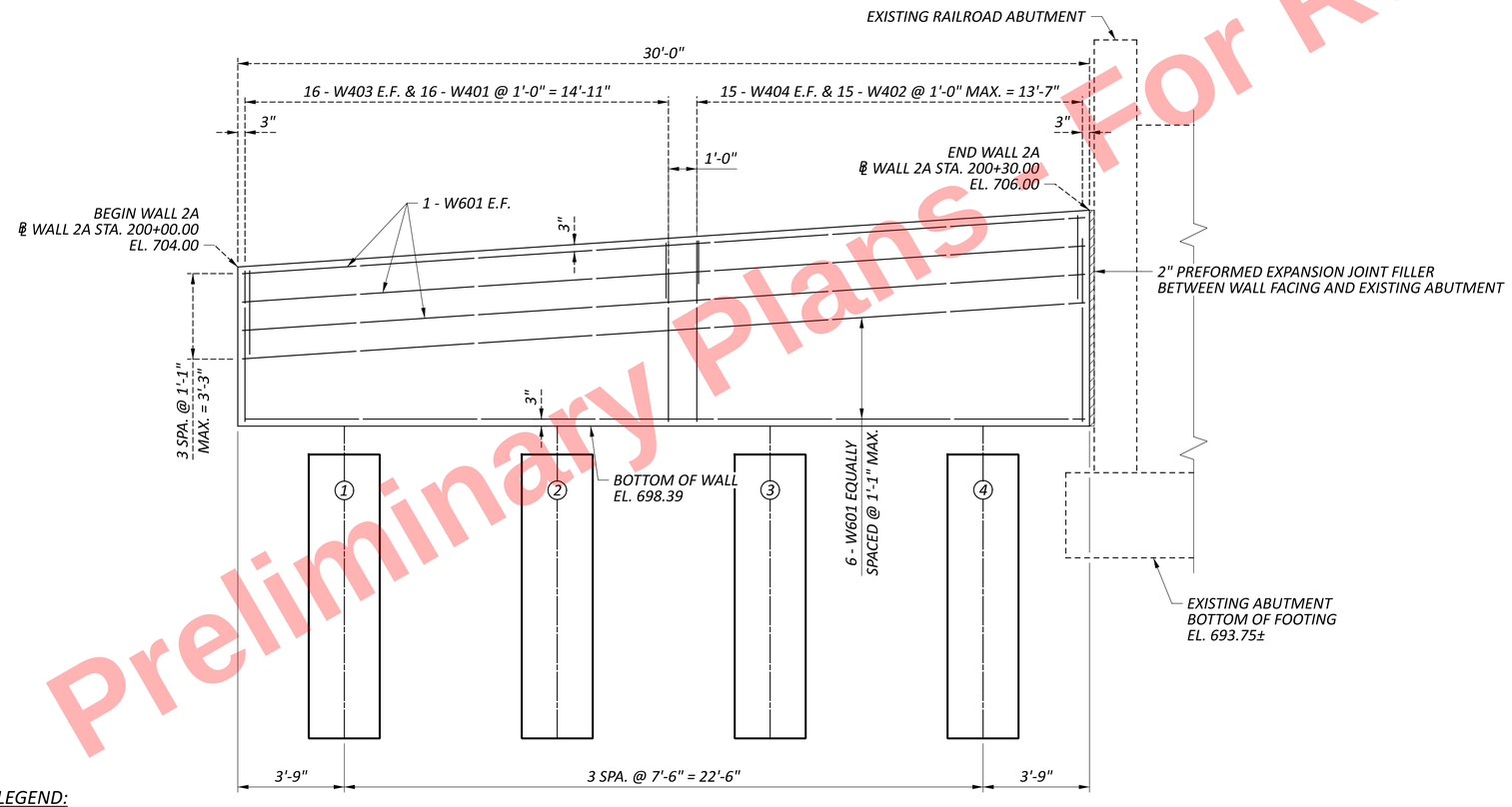


GENERAL PLAN

(DIMENSIONS ARE MEASURED ALONG FRONT FACE OF WALL)



DRILLED SHAFT LOCATION DETAIL



ELEVATION

(LOOKING AT BACK FACE OF WALL)

LEGEND:

① - DENOTES DRILLED SHAFT WITH SOLDIER BEAM.

(#) - DRILLED SHAFT NUMBER

MINIMUM LAP LENGTHS	
NO. 4 BAR	1'-11"

NOTE:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR WALL SECTIONS AND SOLDIER BEAM DETAILS, SEE SHEET 5/6.

Preliminary Plans - For Reference Only

PILE LAYOUT AND WALL ELEVATION
RETAINING WALL 2A

DESIGN AGENCY: TRC

DESIGNER: CEJ

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 4 TOTAL: 6

SHEET: P.896 TOTAL: P.1269

CUY-77-11.41 - PART 1

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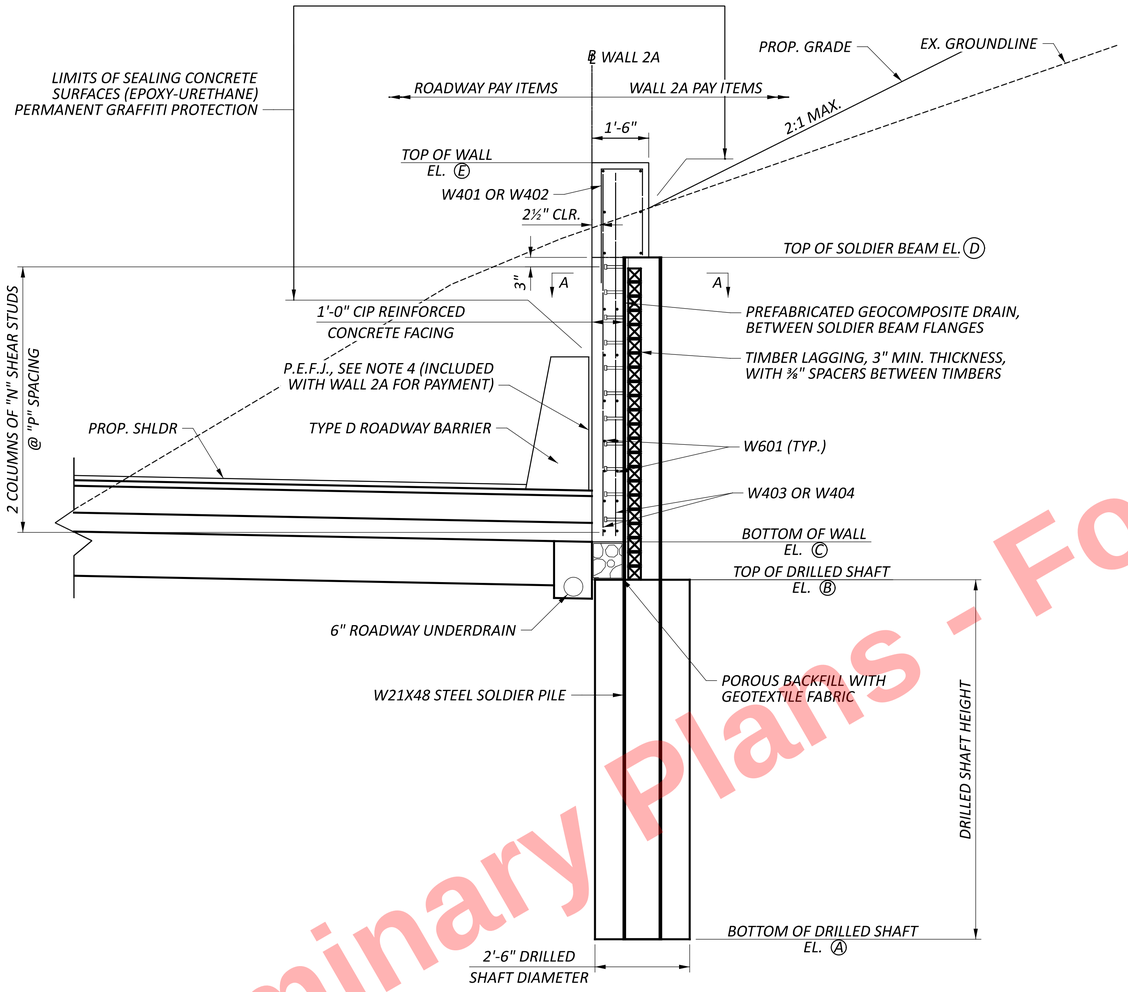
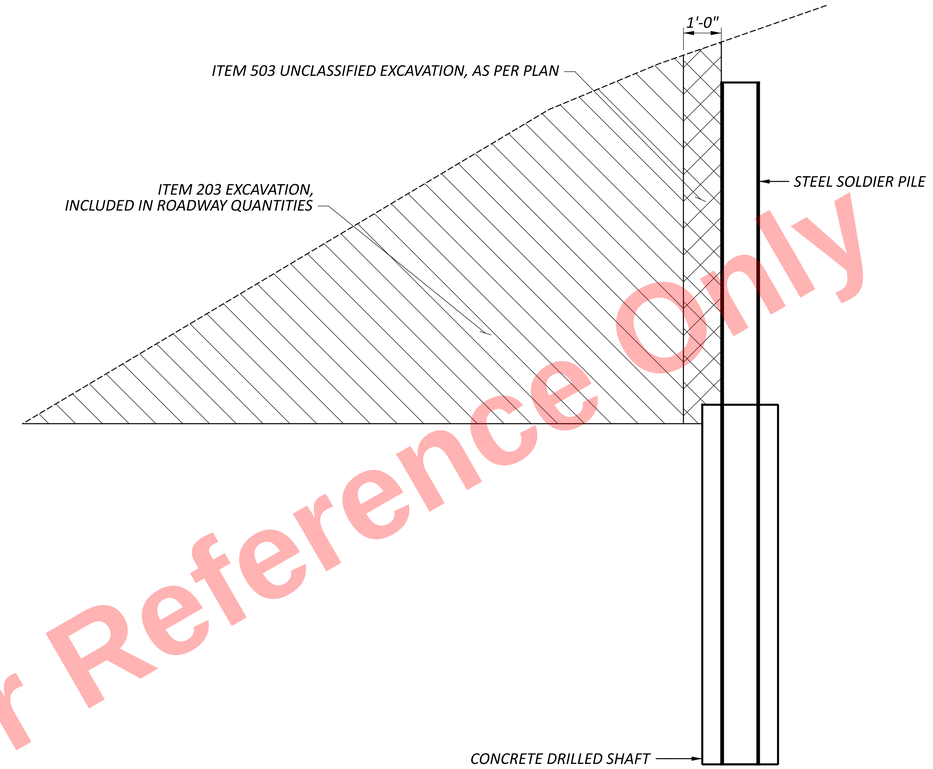
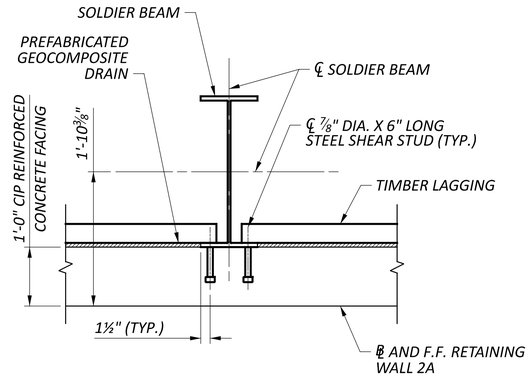


WALL 2A TYPICAL SECTION



EXCAVATION SCHEMATIC



SECTION A-A

NOTES:

1. AT THE CONTRACTOR'S OPTION, THE SOLDIER BEAM SIZE MAY BE INCREASED AT NO ADDITIONAL COST TO THE DEPARTMENT. THE PROPOSED BEAM SIZE MUST HAVE A SECTION MODULUS EQUAL TO OR GREATER THAN THE BEAM SIZE SPECIFIED. IN ADDITION, THE PROPOSED BEAM MUST ALLOW AT LEAST 3 INCHES OF CLEARANCE BETWEEN THE FLANGES AND THE SIDE OF THE DRILLED SHAFT.
2. THE NOMINAL CONCRETE FACING THICKNESS IS 12 INCHES. TO ADDRESS MISALIGNMENT OF SOLDIER BEAMS, THE CONTRACTOR MAY PROVIDE ADDITIONAL THICKNESS BUT AT NO ADDITIONAL COST TO THE DEPARTMENT.
3. INSTALL THE PREFABRICATED GEOCOMPOSITE DRAIN (PGD) BETWEEN SOLDIER BEAMS IN ACCORDANCE WITH CMS 518.06. WHERE TIMBER LAGGING IS PLACED, THE PGD SHALL BE SECURED TO THE LAGGING. IF LAGGING IS NOT REQUIRED BECAUSE THE PORTION OF THE WALL IS ABOVE THE EXISTING GROUND, THE PGD SHALL BE ATTACHED TO THE BACK SURFACE OF THE CONCRETE WALL FACING. PGD SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BELOW THE WALL FACING.
4. THICKNESS OF PREFORMED EXPANSION JOINT FILLER VARIES FROM 1" TO 1½". THE REQUIRED AREA OF JOINT FILLER IS ASSUMED TO BE EQUALLY SHARED BY EACH MATERIAL THICKNESS FOR COST ESTIMATE.
5. FOR DRILLED SHAFT LAYOUT PLAN AND WALL ELEVATION, SEE SHEET 4/6.

PILE AND DRILLED SHAFT SIZE AND DIMENSION TABLE

DRILLED SHAFT NUMBER	WALL 2A STATION	OFFSET	BOTT. OF SHAFT ELEVATION (EL. A)	TOP OF SHAFT ELEVATION (EL. B)	BOTT. OF WALL ELEVATION (EL. C)	TOP OF SOLDIER BEAM ELEV. (EL. D)	TOP OF WALL ELEVATION (EL. E)	LENGTH OF SOLDIER BEAM (FEET)	DRILLED SHAFT DIAMETER (INCHES)	SOLDIER BEAM SIZE	NUM. OF SHEAR STUD PAIRS (N)	SPACING OF SHEAR STUDS (P)
1	200+03.75	1.86 RT	677.39	697.39	698.39	701.44	704.25	24.05	30.00	W21X48	4	10.00 in
2	200+11.25	1.86 RT	677.39	697.39	698.39	702.31	704.75	24.92	30.00	W21X48	5	10.00 in
3	200+18.75	1.86 RT	677.39	697.39	698.39	703.18	705.24	25.79	30.00	W21X48	6	10.25 in
4	200+26.25	1.86 RT	677.39	697.39	698.39	704.05	705.74	26.66	30.00	W21X48	7	10.25 in

Preliminary Plans - For Reference Only

TYPICAL SECTION AND SOLDIER PILE DIMENSION TABLE
RETAINING WALL 2A

DESIGN AGENCY TRC
DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 5 TOTAL 6
SHEET P.897 TOTAL P.1269

CUY-77-11.41 - PART 1

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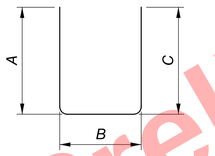
MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
W401	16	5'-10"	62	2	3'-0"	1'-1"	2'-0"				
W402	15	5'-4"	53	2	2'-11"	1'-1"	1'-6"				
W403	32	5'-3"	112	STR							
W404	30	6'-3"	125	STR							
W601	18	29'-8"	802	STR							
		TOTAL	1,154								



TYPE-2

Preliminary Plans - For Reference Only

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. ALL REINFORCING STEEL TO BE EPOXY COATED.

REINFORCING STEEL LIST
RETAINING WALL 2A

DESIGN AGENCY TRC

DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 6 | TOTAL 6

SHEET P.898 | TOTAL P.1269

CUY-77-11.41 - PART 1

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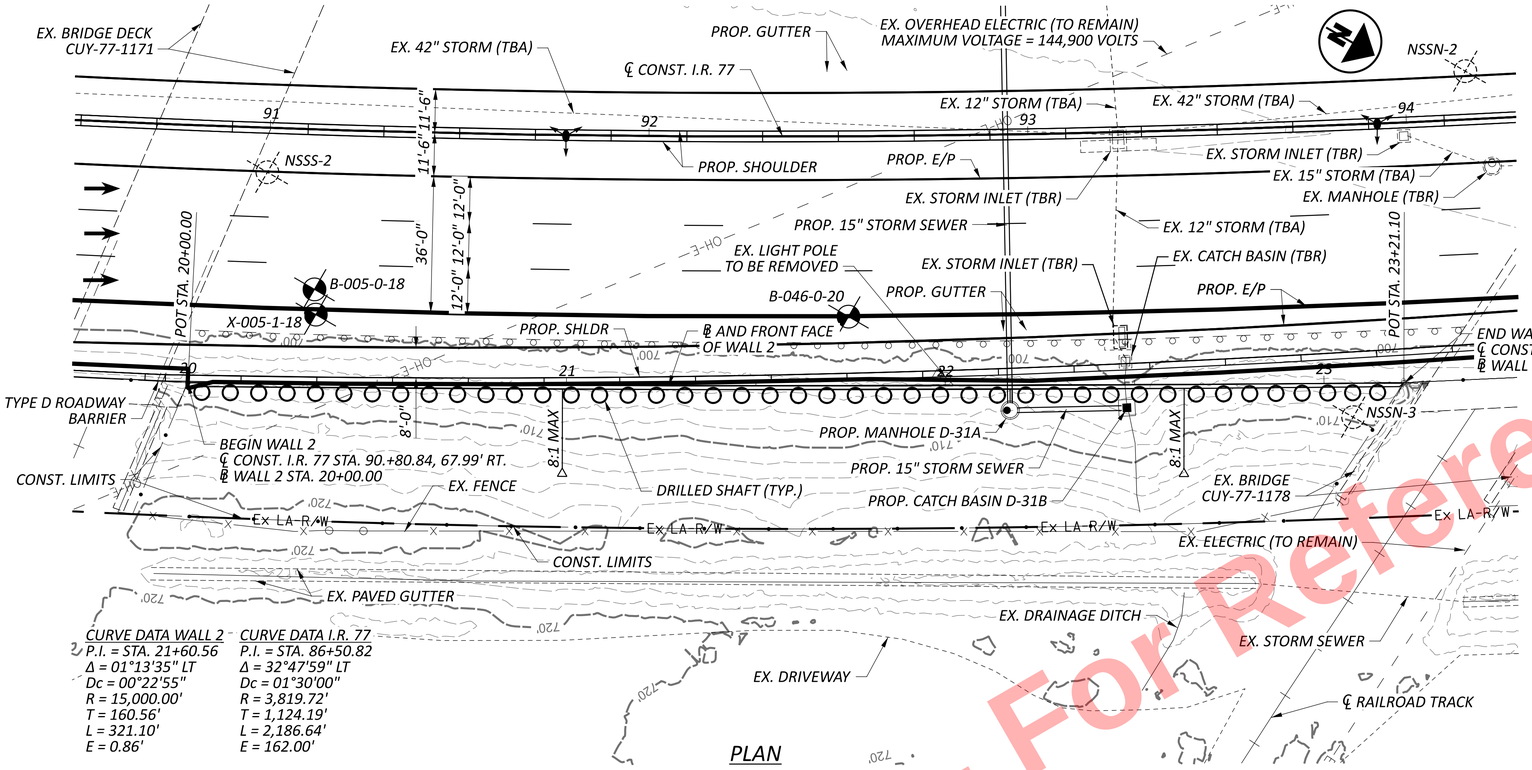
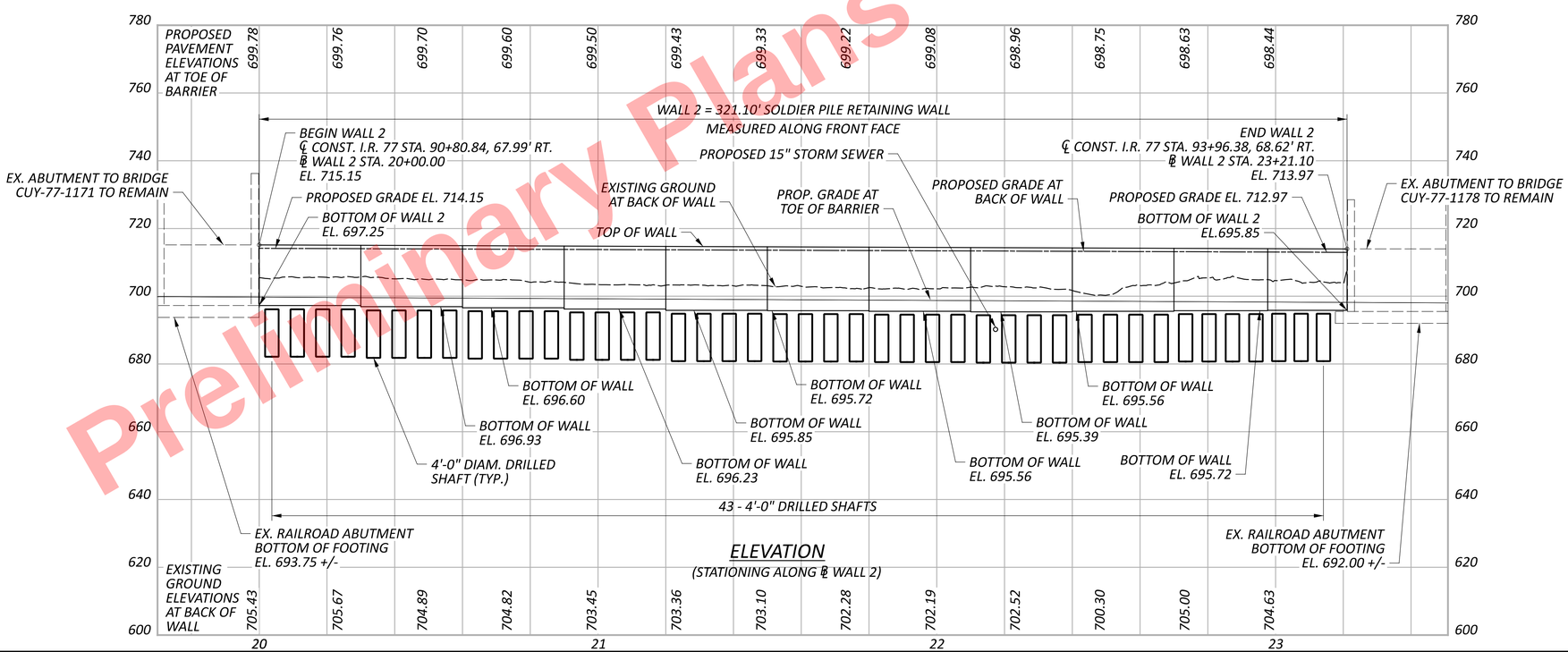


CURVE DATA WALL 2
P.I. = STA. 21+60.56
Δ = 01°13'35" LT
Dc = 00°22'55"
R = 15,000.00'
T = 160.56'
L = 321.10'
E = 0.86'

CURVE DATA I.R. 77
P.I. = STA. 86+50.82
Δ = 32°47'59" LT
Dc = 01°30'00"
R = 3,819.72'
T = 1,124.19'
L = 2,186.64'
E = 162.00'

PLAN



ELEVATION
(STATIONING ALONG ℄ WALL 2)

LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION
- HISTORIC SOIL BORING LOCATION

NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 3B AND 3C.

Preliminary Plans - For Reference Only

SITE PLAN
RETAINING WALL 2

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 1 | TOTAL 14

SHEET P.899 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: WALL 2 PLAN [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:38:02 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 10TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

EPOXY COATED REINFORCING STEEL - MIN. YILED STRENGTH 60 KSI

STEEL SOLDIER PILES - ASTM A572 - YIELD STRENGTH 50 KSI

ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W33x169

THIS WORK CONSISTS OF FURNISHING AND PLACING STEEL SOLDIER PILES INTO DRILLED HOLES. FURNISH SOLDIER PILES CONSISTING OF STRUCTURAL STEEL MEMBERS THAT MEET THE PLAN REQUIREMENTS AND CONFORM TO ASTM A572, GRADE 50. DO NOT FIELD WELD OR SPLICE STEEL SOLDIER PILES.

THE DEPARTMENT WILL MEASURE SOLDIER PILES ALONG THE AXIS OF THE SOLDIER PILE FROM THE TOP OF WALL ELEVATION TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER. THE DEPARTMENT WILL PAY FOR SOLDIER PILES AT THE CONTRACT UNIT PRICE PER FOOT FOR ITEM 507, STEEL PILES, MISC.: SOLDIER PILES, W33x169.

ITEM 512 - TYPE 2 WATERPROOFING, AS PER PLAN

PLACE WATERPROOFING MEMBRANE AT THE LOCATIONS OF THE PROPOSED JOINTS IN THE CONCRETE WALL FACING. PLACE THE WATERPROOFING MEMBRANE OVER THE PGD AND SECURELY ATTACH TO THE TIMBER LAGGING WITH SCREWS AND 1-INCH OUTER DIAMETER FENDER WASHERS. PLACE THE MEMBRANE SO THAT THE ADHESIVE SIDE FACES THE CAST-IN-PLACE CONCRETE. THE SURFACE PREPARATION DESCRIBED IN C&MS 512.08 IS NOT REQUIRED.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

ITEM 512 - SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION)

APPLY A PERMANENT GRAFFITI COATING QUALIFIED ACCORDING TO S1083 THAT IS COMPATIBLE WITH THE CONCRETE SEALER OVER WHICH IT IS APPLIED. APPLY THE GRAFFITI COATING IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.

ITEM 513 - WELDED STUD SHEAR CONNECTORS, AS PER PLAN

SOLDIER PILES WHICH REQUIRE HEADED STUDS ARE SHOWN IN THE TABLE ON SHEET 12/14. WELD HEADED STEEL STUDS TO THE FLANGES OF THE SOLDIER PILE IN ORDER TO CONNECT THE CAST-IN-PLACE CONCRETE WALL FACING TO THE SOLDIER PILE. ATTACH HEADED STUDS ACCORDING TO C&MS 513.22 AND AS SHOWN IN THE PLANS. THE CONTRACTOR MAY ATTACH THE STUDS EITHER BEFORE PLACING THE SOLDIER PILE IN THE DRILLED HOLE OR AFTER EXCAVATING IN FRONT OF THE WALL. PROTECT THE HEADED STUDS FROM DAMAGE UNTIL THE CONCRETE WALL FACING IS POURED. REPAIR OR REPLACE DAMAGED HEADED STUDS AT NO EXPENSE TO THE DEPARTMENT.

ITEM 524 - DRILLED SHAFT, 48" DIAMETER ABOVE BEDROCK, AS PER PLAN

THIS WORK CONSISTS OF FURNISHING AND INSTALLING DRILLED SHAFTS FOR SOLDIER PILE AND LAGGING WALLS. THE DRILLED SHAFTS ARE REINFORCED WITH SOLDIER PILES INSTEAD OF REINFORCING STEEL CAGES. THE SOLDIER PILES EXTEND ABOVE THE TOP OF THE DRILLED SHAFT. FURNISH AND INSTALL THE DRILLED SHAFTS ACCORDING TO C&MS 524 EXCEPT AS MODIFIED AND SUPPLEMENTED BELOW.

EXCAVATE THE HOLE FOR THE DRILLED SHAFT WITHIN 3 INCHES OF THE PLAN LOCATION. PLACE THE SOLDIER PILE WITHIN THE HOLE SO IT IS VERTICAL AND NOT INCLINED MORE THAN 1 INCH BETWEEN TOP AND BOTTOM. PLACE THE SOLDIER PILE SO THAT THE FLANGES ARE PARALLEL TO THE CENTERLINE OF THE ROW OF DRILLED SHAFTS. DO NOT ALLOW THE ORIENTATION OF THE FLANGES TO VARY BY MORE THAN 10 DEGREES. SUPPORT THE SOLDIER PILE SO THAT IT DOES NOT MOVE DURING CONCRETE PLACEMENT.

USE CLASS QC1 CONCRETE ACCORDING TO C&MS 511. PLACE CONCRETE TO THE ELEVATION FOR THE TOP OF THE DRILLED SHAFT. THE CONTRACTOR MAY PLACE CONCRETE USING THE FREE FALL METHOD PROVIDED THE DEPTH OF WATER IS LESS THAN 6 INCHES AND THE CONCRETE FALLS WITHOUT STRIKING THE SIDES OF THE HOLE. POURING CONCRETE ALONG THE WEB OF THE SOLDIER PILE IS ACCEPTABLE.

CHECK THE POSITION, THE VERTICAL ALIGNMENT AND ORIENTATION OF THE SOLDIER PILE IMMEDIATELY AFTER CONCRETE PLACEMENT. MAKE CORRECTIONS AS NECESSARY TO MEET THE ABOVE TOLERANCES.

FILL THE HOLE ABOVE THE BOTTOM OF THE LAGGING TO THE EXISTING GROUND SURFACE WITH ITEM 613 LOW STRENGTH MORTAR BACKFILL (LSM).

REMOVE CONCRETE AND LSM AS NECESSARY FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE THE LAGGING. PLACE THE LAGGING SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING. WAIT AT LEAST 12 HOURS AFTER PLACING CONCRETE IN THE DRILLED SHAFTS BEFORE PLACING LAGGING.

SEQUENCE OF INSTALLATION: INSTALL THE DRILLED SHAFTS IN A SEQUENCE SUCH THAT NO DRILLED SHAFT IS INSTALLED ADJACENT TO EITHER AN OPEN DRILLED SHAFT EXCAVATION OR A DRILLED SHAFT IN WHICH THE CONCRETE HAS LESS THAN A 48 HOUR CURE. INSTALLING THE SHAFTS IN AN ALTERNATING SEQUENCE OR ANY OTHER SEQUENCE THAT MEETS THIS CRITERIA IS PERMISSIBLE.

PROTECTION OF UNATTENDED OPEN SHAFTS: COVER UNATTENDED OPEN SHAFTS. USE TEMPORARY COVERS OF ADEQUATE STRENGTH TO PREVENT A PERSON OR ANIMAL FROM FALLING IN. LEAVE NO DRILLED SHAFT EXCAVATION UN-POURED OVERNIGHT.

THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHOD USED TO CONSTRUCT THE DRILLED SHAFTS AND PLACE LAGGING. ANY TEMPORARY GRADING, EXCAVATION, EMBANKMENT, AGGREGATE, DRAINAGE, SHEETING, ETC. NEEDED TO COMPLETE THE WORK IS INCLUDED IN THE BID PRICE FOR THE DRILLED SHAFTS. THE COST OF ANY EXCAVATION AND SUBSEQUENT REPLACEMENT OF EMBANKMENT (PER ITEM 203 EMBANKMENT) IS INCLUDED IN THE VARIOUS BID ITEMS FOR THE DRILLED SHAFTS AND LAGGING, UNLESS SEPARATELY ITEMIZED. NO SEPARATE PAYMENT WILL BE MADE.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE DRILLED SHAFTS ABOVE BEDROCK, AS PER PLAN, ALONG THE AXIS OF THE DRILLED SHAFT FROM THE EXISTING GROUND SURFACE TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER.

PAYMENT IS FULL COMPENSATION FOR CONSTRUCTING THE DRILLED SHAFTS, INCLUDING FURNISHING AND PLACING CONCRETE AND LSM, AND REMOVAL OF CONCRETE OR LSM FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE LAGGING.

ITEM SPECIAL - RETAINING WALL, MISC.: TIMBER LAGGING

THIS WORK CONSISTS OF FURNISHING AND PLACING TIMBER LAGGING BETWEEN THE SOLDIER PILES AS TEMPORARY SUPPORT FOR THE RETAINED SOIL. FURNISH TIMBER LAGGING CONSISTING OF CONSTRUCTION GRADE, UNTREATED HARDWOOD WITH A MINIMUM THICKNESS OF 3 INCHES. TO PERMIT DRAINAGE, PROVIDE 1/4 TO 1/2-INCH SPACES BETWEEN LAGGING BOARDS USING 3/8-INCH THICK SPACER BLOCKS OR OTHER MEANS ACCEPTABLE TO THE ENGINEER. PLACE THE LAGGING BOARDS BETWEEN THE FLANGES OF THE SOLDIER PILES AND BEARING AGAINST THE FLANGES ON THE EXPOSED SIDE OF THE WALL SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING BOARDS. PERFORM EXCAVATION FOR PLACEMENT OF THE LAGGING IN SUCH A MANNER THAT THE LAGGING IS TIGHT AGAINST THE EXCAVATION CUT FACE. BACKFILL ANY VOIDS BEHIND THE LAGGING WITH A SUITABLE COMPACTED GRANULAR MATERIAL CONFORMING TO C&MS 703.16.C, ACCEPTABLE TO THE ENGINEER. THE COST OF ANY SUCH BACKFILLING REQUIRED, INCLUDING MATERIAL, PLACEMENT AND COMPACTION, IS INCIDENTAL TO THE COST OF LAGGING.

THE DEPARTMENT WILL PAY FOR TIMBER LAGGING AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR ITEM SPECIAL, RETAINING WALL, TIMBER LAGGING.

ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

℄ - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

Preliminary Plans - For Reference Only

GENERAL NOTES
RETAINING WALL 2

DESIGN AGENCY
TRC

DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 2 | TOTAL 14
SHEET P.900 | TOTAL P.1269

CUY-77-11.41 - PART 1

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ESTIMATED QUANTITIES (WALL 2)

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
503	21101	102	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN	11
507	00400	2001	FT	STEEL PILES, MISC.: SOLDIER PILES, W33x169	2
509	10000	28687	LB	EPOXY COATED STEEL REINFORCEMENT	
511	46013	232	CY	CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN	13
512	10001	513	SY	SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION)	2
512	10101	513	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	2
512	33001	58	SY	TYPE 2 WATERPROOFING, AS PER PLAN	2
513	20001	1508	EACH	WELDED STUD SHEAR CONNECTORS, AS PER PLAN	2
516	13600	250	SF	1" PREFORMED EXPANSION JOINT FILLER	
516	13900	726	SF	2" PREFORMED EXPANSION JOINT FILLER	
518	20000	589	SY	PREFABRICATED GEOCOMPOSITE DRAIN	
518	21200	12	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
518	40000	318	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
518	40010	3	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
524	94903	1161	FT	DRILLED SHAFTS, 48" DIAMETER ABOVE BEDROCK, AS PER PLAN	2
SPECIAL	53051020	2629	SF	RETAINING WALL, TIMBER LAGGING	2

Preliminary Plans - For Reference Only

ESTIMATED QUANTITIES
RETAINING WALL 2

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 3 | TOTAL 14

SHEET P.901 | TOTAL P.1269

CUY-77-11.41 - PART 1

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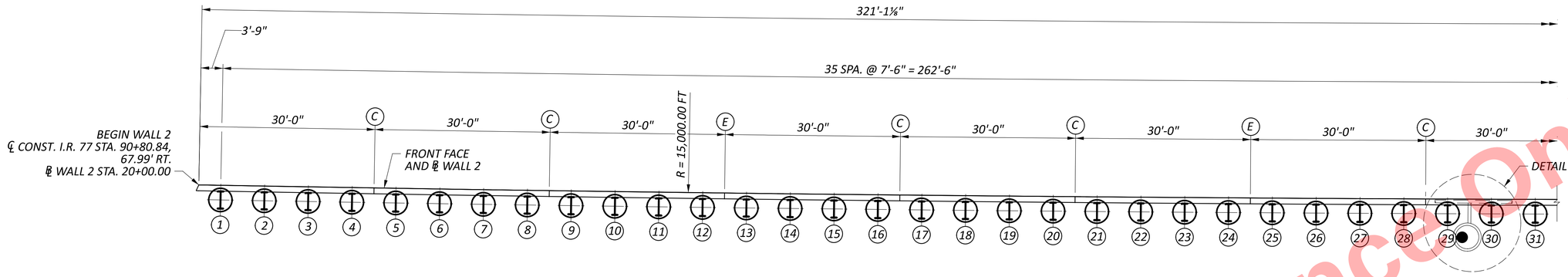
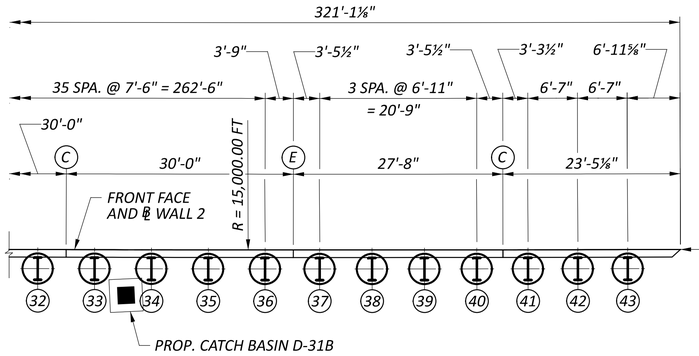
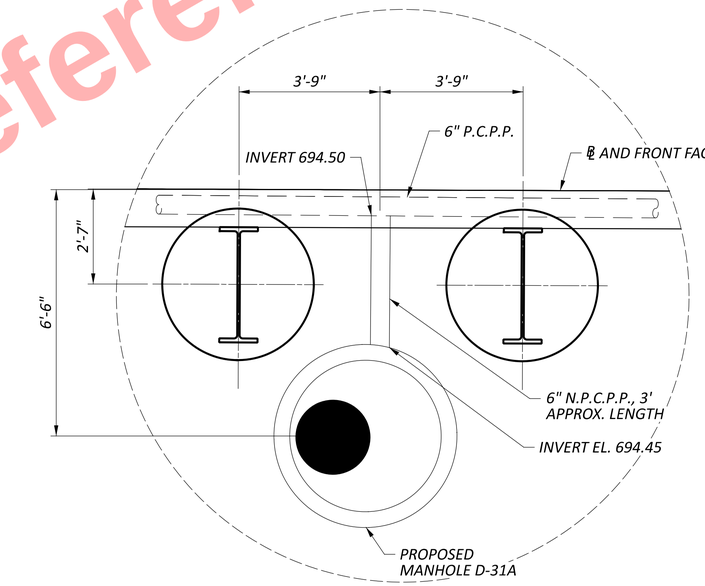


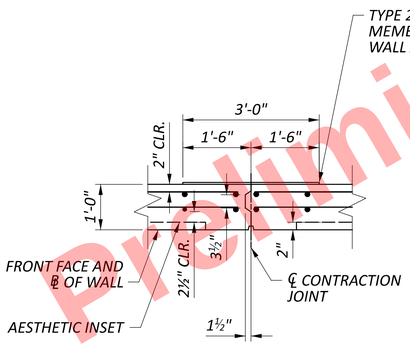


GENERAL PLAN

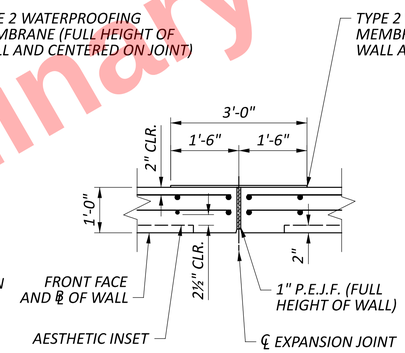
(DIMENSIONS ARE MEASURED ALONG FRONT FACE OF WALL)



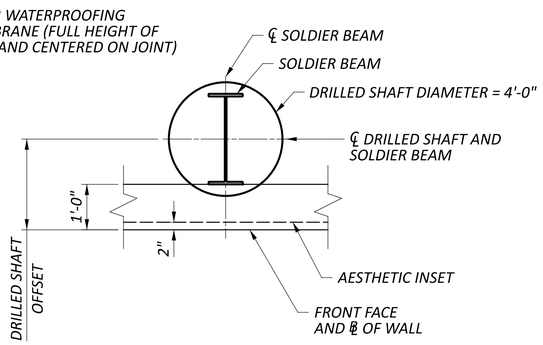
DETAIL A



CONTRACTION JOINT DETAIL



EXPANSION JOINT DETAIL



DRILLED SHAFT LOCATION DETAIL

LEGEND:

- ① - DENOTES DRILLED SHAFT WITH SOLDIER BEAM.
- (#) - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

NOTE:

1. FOR WALL ELEVATION VIEW, SEE SHEETS 5/14 THRU 10/14.
2. FOR SIZES AND OFFSET DIMENSIONS OF DRILLED SHAFTS AND SOLDIER BEAMS, SEE SHEET 12/14.
3. FOR AESTHETIC DETAILS, SEE SHEET 13/14.

Preliminary Plans - Not For Reference Only

PILE LAYOUT AND GEOMETRY SCHEMATIC
RETAINING WALL 2

DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 4 | TOTAL: 14
SHEET: P.902 | TOTAL: P.1269

CUY-77-11.41 - PART 1

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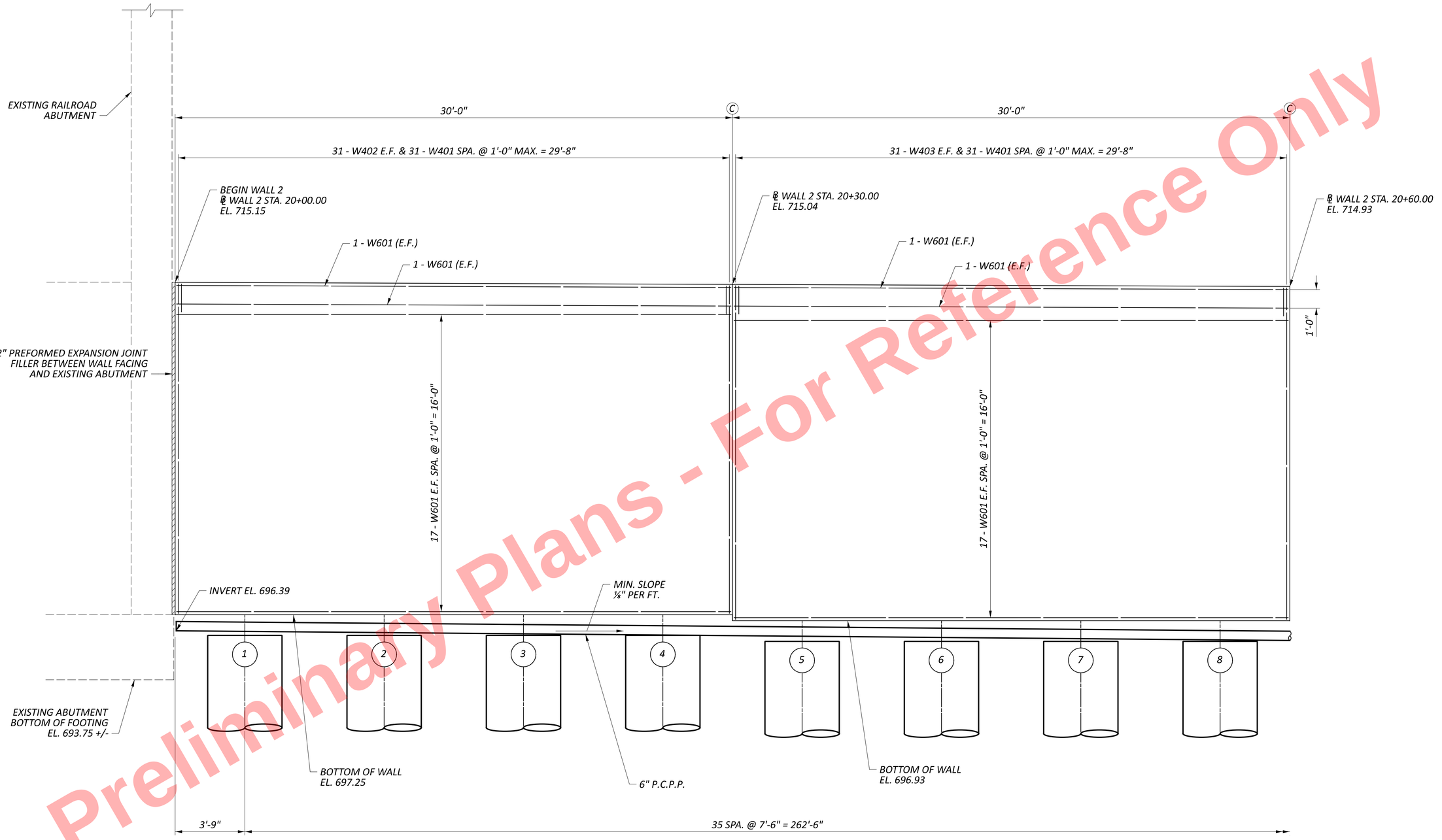

PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

LEGEND:

- Ⓝ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.

Preliminary Plans - For Reference Only

WALL ELEVATION
RETAINING WALL 2

DESIGN AGENCY
TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	5
TOTAL	14
SHEET	P.903
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: panels 1-2 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:39:05 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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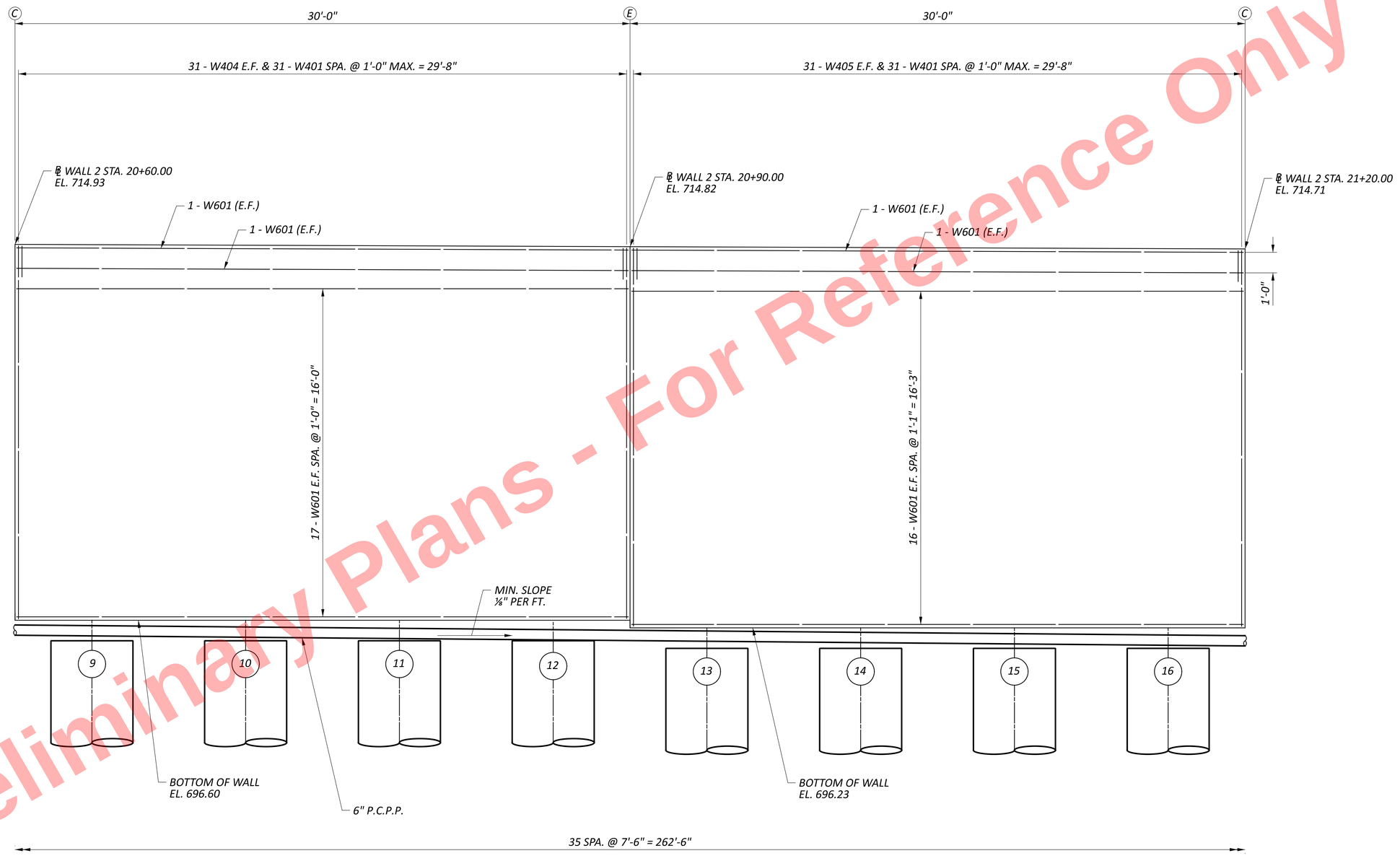

Preliminary Plans - For Reference Only

PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

LEGEND:

- Ⓝ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.

WALL ELEVATION
RETAINING WALL 2

CUY-77-11.41 - PART 1

MODEL: panels 3-4 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:39:06 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 6 | TOTAL 14

SHEET P.904 | TOTAL P.1269

MODEL: panels 5-6 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:39:07 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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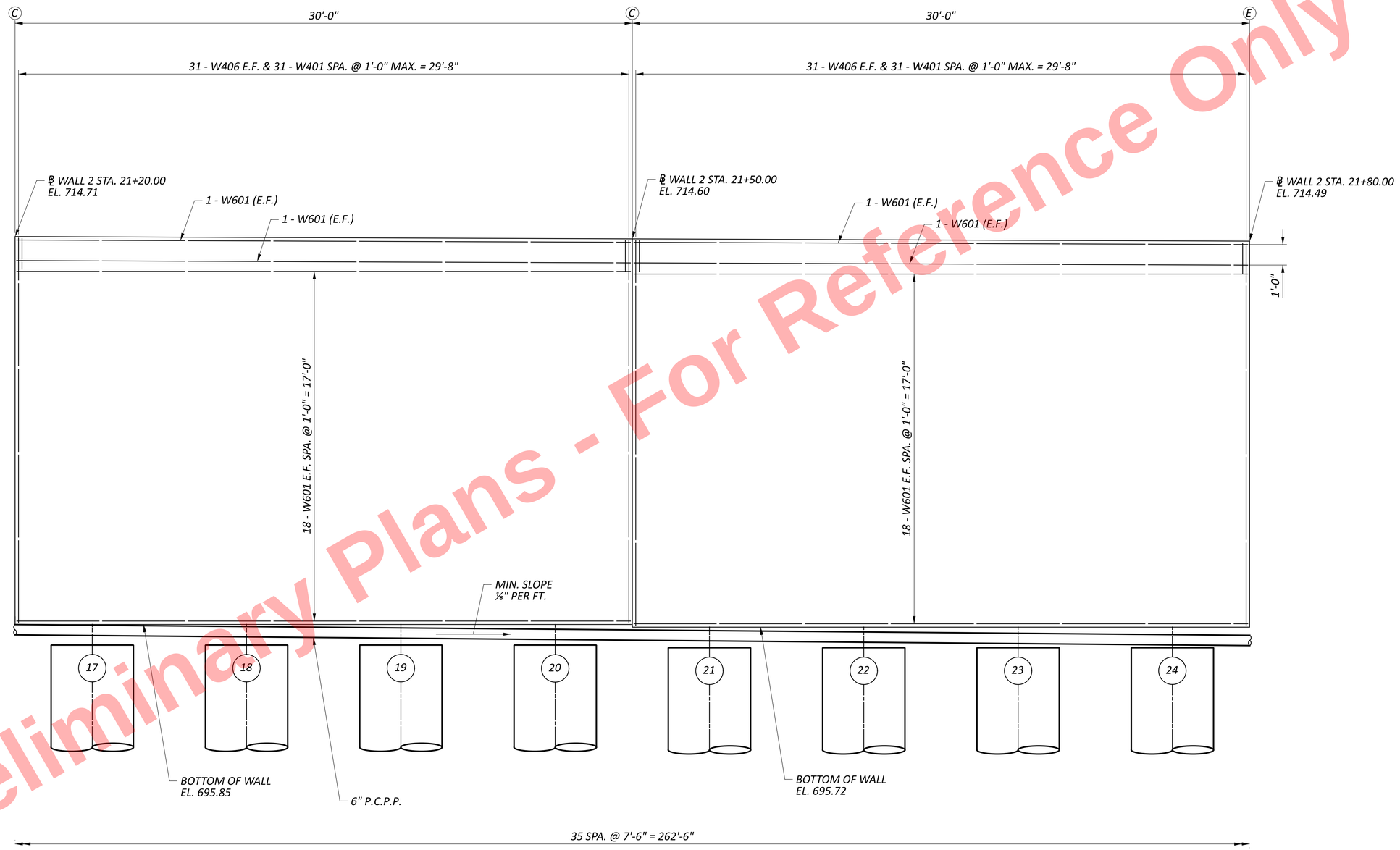


PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.

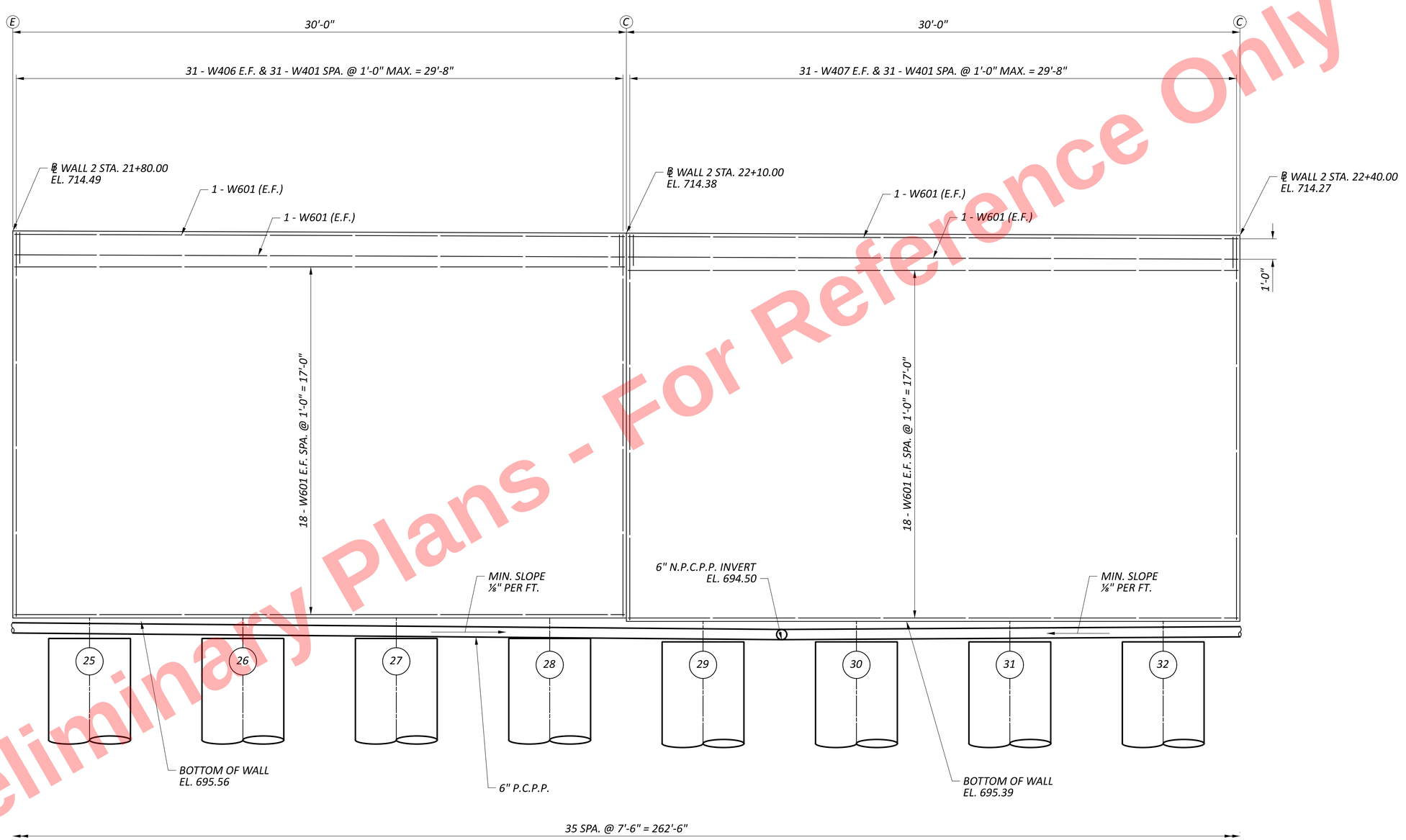
Preliminary Plans - For Reference Only

WALL ELEVATION
RETAINING WALL 2

DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	7
TOTAL	14
SHEET	P.905
TOTAL	P.1269

Preliminary Plans - For Reference Only



PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.

WALL ELEVATION
RETAINING WALL 2

DESIGN AGENCY
TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET / TOTAL	8 / 14
SHEET / TOTAL	P.906 / P.1269

CUY-77-11.41 - PART 1

MODEL: panels 7-8 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:39:07 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCe\02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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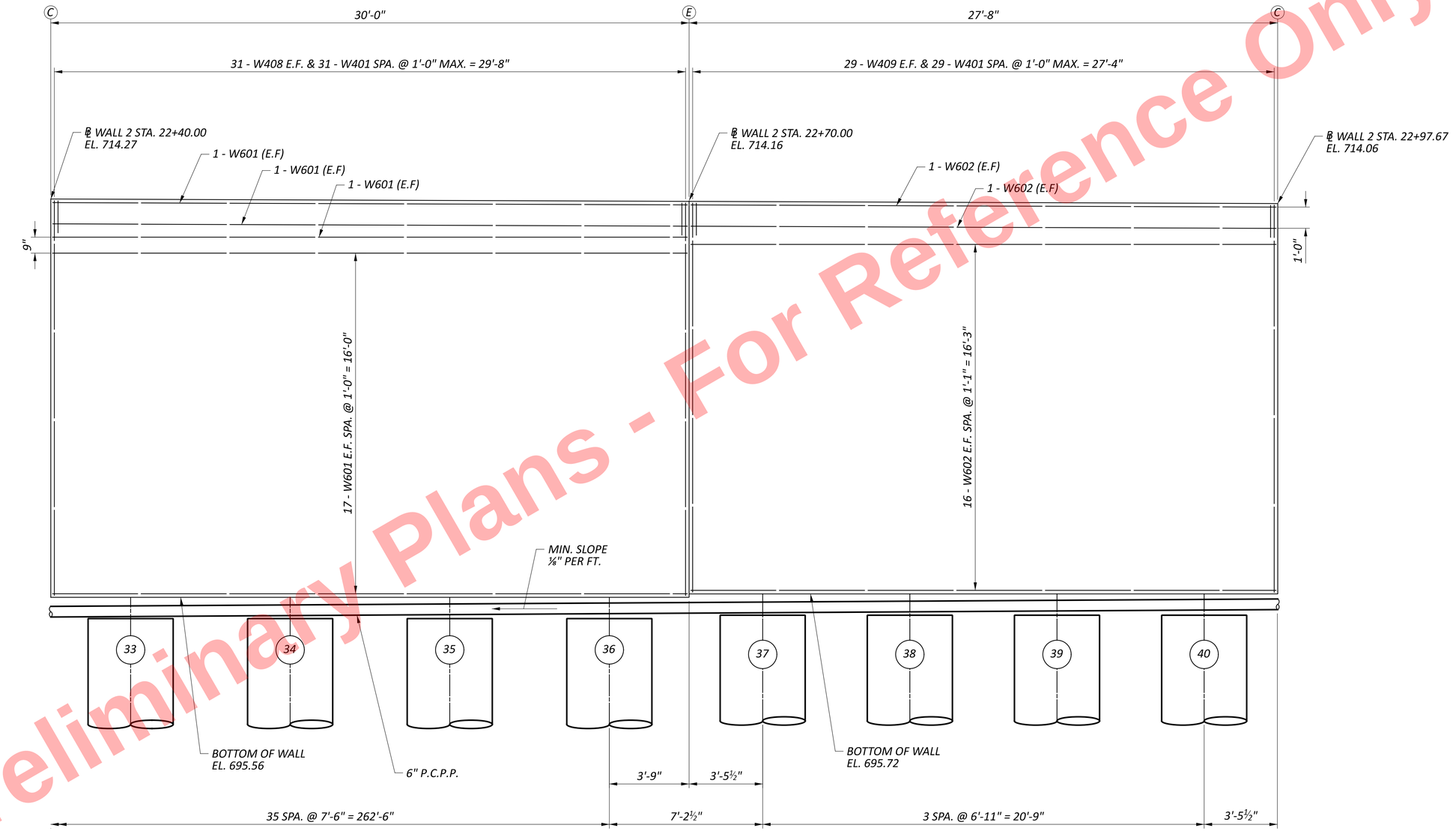
Preliminary Plans - For Reference Only



PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

LEGEND:

- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.

WALL ELEVATION
RETAINING WALL 2

DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET / TOTAL	9 / 14
SHEET / TOTAL	P.907 / P.1269

CUY-77-11.41 - PART 1

MODEL: panels 9-10 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:39:08 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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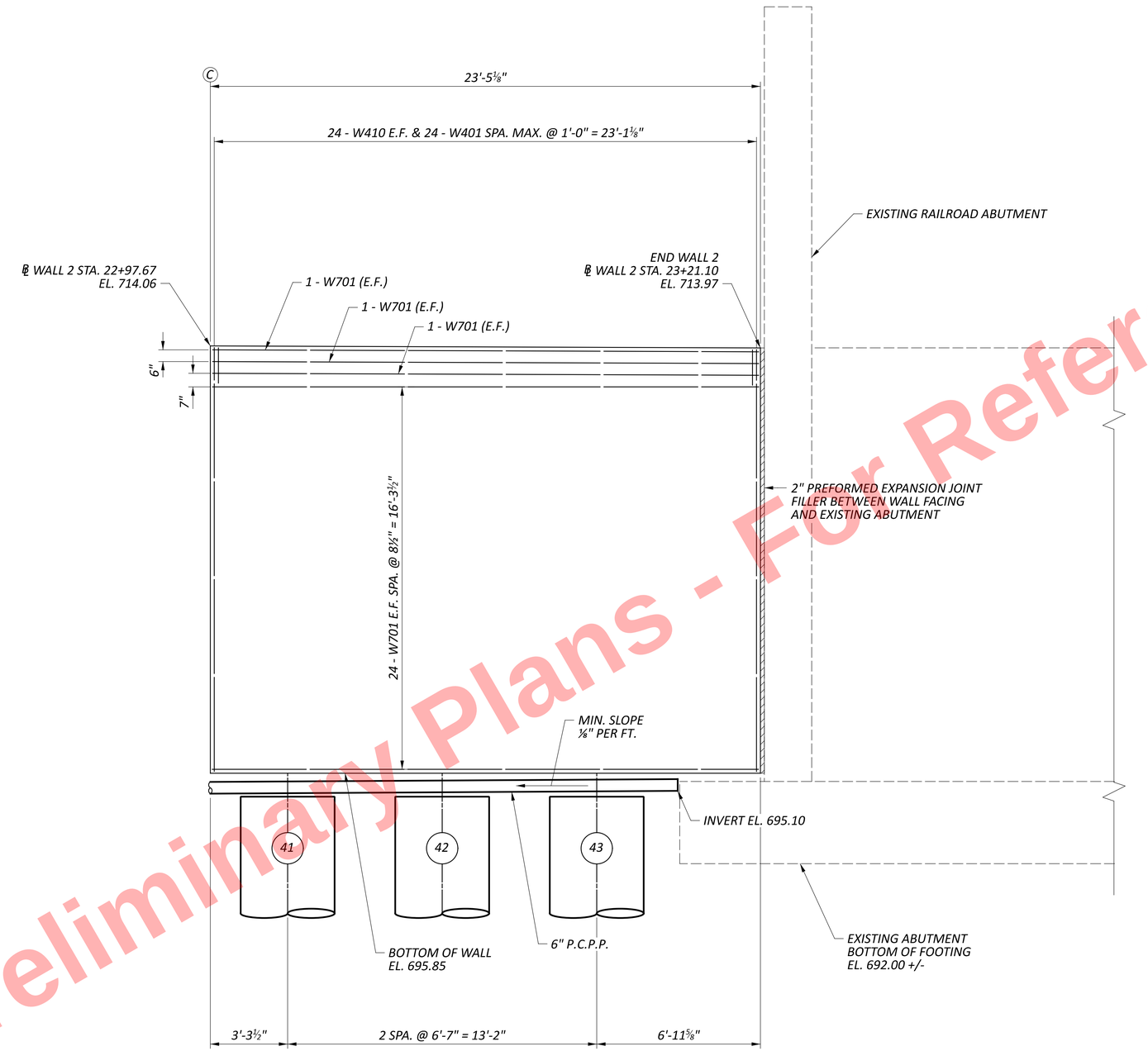


PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

LEGEND:

- Ⓝ - DRILLED SHAFT NUMBER
- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

NOTES:

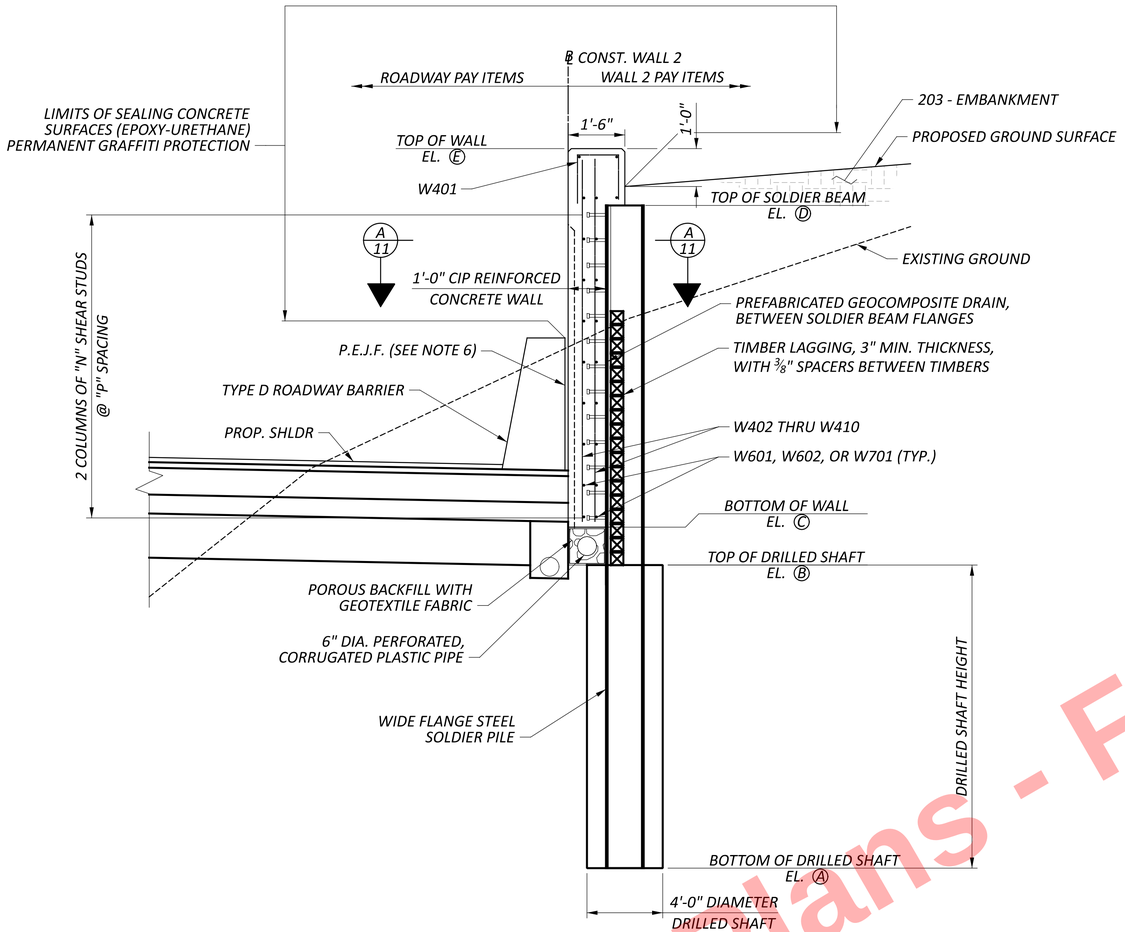
1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.

Preliminary Plans - For Reference Only

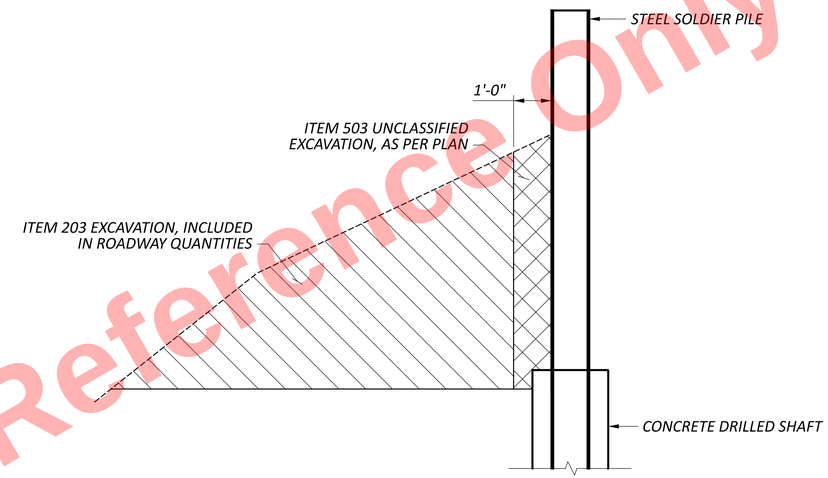
WALL ELEVATION
RETAINING WALL 2

DESIGN AGENCY: TRC

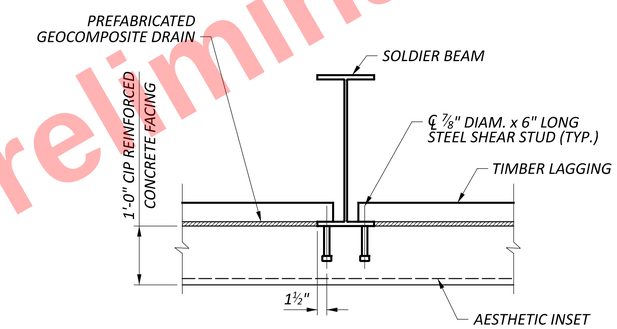
DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	10
TOTAL	14
SHEET	P.908
TOTAL	P.1269



WALL 2 TYPICAL SECTION



EXCAVATION SCHEMATIC



SECTION A-A

NOTES:

1. AT THE CONTRACTOR'S OPTION, THE SOLDIER BEAM SIZE MAY BE INCREASED AT NO ADDITIONAL COST TO THE DEPARTMENT. THE PROPOSED BEAM SIZE MUST HAVE A SECTION MODULUS EQUAL TO OR GREATER THAN THE BEAM SIZE SPECIFIED. IN ADDITION, THE PROPOSED BEAM MUST ALLOW AT LEAST 3 INCHES OF CLEARANCE BETWEEN THE FLANGES AND THE SIDE OF THE DRILLED SHAFT.
2. THE NOMINAL CONCRETE FACING THICKNESS IS 12 INCHES. TO ADDRESS MISALIGNMENT OF SOLDIER BEAMS, THE CONTRACTOR MAY PROVIDE ADDITIONAL THICKNESS BUT AT NO ADDITIONAL COST TO THE DEPARTMENT.
3. INSTALL THE PREFABRICATED GEOCOMPOSITE DRAIN (PGD) BETWEEN SOLDIER BEAMS IN ACCORDANCE WITH CMS 518.06. WHERE TIMBER LAGGING IS PLACED, THE PGD SHALL BE SECURED TO THE LAGGING. IF LAGGING IS NOT REQUIRED BECAUSE THE PORTION OF THE WALL IS ABOVE THE EXISTING GROUND, THE PGD SHALL BE ATTACHED TO THE BACK SURFACE OF THE CONCRETE WALL FACING. PGD SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BELOW THE WALL FACING.
4. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.
5. FOR PILE AND DRILLED SHAFT DIMENSIONS AND ELEVATIONS, SEE SHEET 12/14.
6. THE VOID BETWEEN THE ROADWAY BARRIER AND THE NOMINAL FACE OF WALL SHALL BE FILLED WITH A STACKED COMBINATION OF 1" P.E.J.F. AND 2" P.E.J.F. UP TO A MAXIMUM THICKNESS OF 6 INCHES. VOIDS IN EXCESS OF 6 INCHES SHALL BE LEFT UNFILLED. ADDITIONAL 2" P.E.J.F. SHALL BE INSTALLED IN THE AESTHETIC INSETS WITHIN THE LIMITS OF STACKED JOINT FILLER.

Preliminary Plans - For Reference Only

TYPICAL SECTION RETAINING WALL 2

CUY-77-11.41 - PART 1

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DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	11
TOTAL	14
SHEET	P.909
TOTAL	P.1269

DRILLED SHAFT NUMBER	WALL 2 STATION	OFFSET	BOTT. OF SHAFT ELEVATION (EL. A)	TOP OF SHAFT ELEVATION (EL. B)	BOTT. OF WALL ELEVATION (EL. C)	TOP OF SOLDIER BEAM ELEV. (EL. D)	TOP OF WALL ELEVATION (EL. E)	LENGTH OF SOLDIER BEAM (FEET)	DRILLED SHAFT DIAMETER (INCHES)	SOLDIER BEAM SIZE	NUM. OF SHEAR STUD PAIRS (N)	SPACING OF SHEAR STUDS (P)
1	20+03.75	2.49 RT	669.14	696.14	697.25	713.14	715.14	44.00	48.00	W33X169	17	11.50 in
2	20+11.25	2.49 RT	669.14	696.14	697.25	713.11	715.11	43.97	48.00	W33X169	17	11.50 in
3	20+18.75	2.49 RT	669.14	696.14	697.25	713.08	715.08	43.94	48.00	W33X169	17	11.50 in
4	20+26.25	2.49 RT	669.14	696.14	697.25	713.05	715.05	43.91	48.00	W33X169	17	11.50 in
5	20+33.75	2.49 RT	668.82	695.82	696.93	713.03	715.03	44.21	48.00	W33X169	17	11.75 in
6	20+41.25	2.49 RT	668.82	695.82	696.93	713.00	715.00	44.18	48.00	W33X169	17	11.75 in
7	20+48.75	2.49 RT	668.82	695.82	696.93	712.97	714.97	44.15	48.00	W33X169	17	11.50 in
8	20+56.25	2.49 RT	668.82	695.82	696.93	712.94	714.94	44.12	48.00	W33X169	17	11.50 in
9	20+63.75	2.49 RT	668.60	695.60	696.60	712.92	714.92	44.32	48.00	W33X169	17	11.75 in
10	20+71.25	2.49 RT	668.60	695.60	696.60	712.89	714.89	44.29	48.00	W33X169	17	11.75 in
11	20+78.75	2.49 RT	668.60	695.60	696.60	712.86	714.86	44.26	48.00	W33X169	17	11.75 in
12	20+86.25	2.49 RT	668.60	695.60	696.60	712.83	714.83	44.23	48.00	W33X169	17	11.75 in
13	20+93.75	2.49 RT	668.23	695.23	696.23	712.81	714.81	44.58	48.00	W33X169	18	11.25 in
14	21+01.25	2.49 RT	668.23	695.23	696.23	712.78	714.78	44.55	48.00	W33X169	18	11.25 in
15	21+08.75	2.49 RT	668.23	695.23	696.23	712.75	714.75	44.52	48.00	W33X169	18	11.25 in
16	21+16.25	2.49 RT	668.23	695.23	696.23	712.72	714.72	44.49	48.00	W33X169	17	11.75 in
17	21+23.75	2.49 RT	667.85	694.85	695.85	712.70	714.70	44.85	48.00	W33X169	18	11.50 in
18	21+31.25	2.49 RT	667.85	694.85	695.85	712.67	714.67	44.82	48.00	W33X169	18	11.50 in
19	21+38.75	2.49 RT	667.85	694.85	695.85	712.64	714.64	44.79	48.00	W33X169	18	11.25 in
20	21+46.25	2.49 RT	667.85	694.85	695.85	712.61	714.61	44.76	48.00	W33X169	18	11.25 in
21	21+53.75	2.49 RT	667.72	694.72	695.72	712.58	714.58	44.86	48.00	W33X169	18	11.50 in
22	21+61.25	2.49 RT	667.72	694.72	695.72	712.56	714.56	44.84	48.00	W33X169	18	11.50 in
23	21+68.75	2.49 RT	667.72	694.72	695.72	712.53	714.53	44.81	48.00	W33X169	18	11.50 in
24	21+76.25	2.49 RT	667.72	694.72	695.72	712.50	714.50	44.78	48.00	W33X169	18	11.25 in
25	21+83.75	2.49 RT	667.56	694.56	695.56	712.47	714.47	44.91	48.00	W33X169	18	11.50 in
26	21+91.25	2.49 RT	667.56	694.56	695.56	712.45	714.45	44.89	48.00	W33X169	18	11.50 in
27	21+98.75	2.49 RT	667.56	694.56	695.56	712.42	714.42	44.86	48.00	W33X169	18	11.50 in
28	22+06.25	2.49 RT	667.56	694.56	695.56	712.39	714.39	44.83	48.00	W33X169	18	11.50 in
29	22+13.75	2.49 RT	667.39	694.39	695.39	712.36	714.36	44.97	48.00	W33X169	18	11.50 in
30	22+21.25	2.49 RT	667.39	694.39	695.39	712.34	714.34	44.95	48.00	W33X169	18	11.50 in
31	22+28.75	2.49 RT	667.39	694.39	695.39	712.31	714.31	44.92	48.00	W33X169	18	11.50 in
32	22+36.25	2.49 RT	667.39	694.39	695.39	712.28	714.28	44.89	48.00	W33X169	18	11.50 in
33	22+43.75	2.49 RT	667.56	694.56	695.56	712.25	714.25	44.69	48.00	W33X169	18	11.25 in
34	22+51.25	2.49 RT	667.56	694.56	695.56	712.23	714.23	44.67	48.00	W33X169	18	11.25 in
35	22+58.75	2.49 RT	667.56	694.56	695.56	712.20	714.20	44.64	48.00	W33X169	18	11.25 in
36	22+66.25	2.49 RT	667.56	694.56	695.56	712.17	714.17	44.61	48.00	W33X169	18	11.25 in
37	22+73.46	2.49 RT	667.72	694.72	695.72	712.15	714.15	44.43	48.00	W33X169	17	11.75 in
38	22+80.38	2.49 RT	667.72	694.72	695.72	712.12	714.12	44.40	48.00	W33X169	17	11.75 in
39	22+87.29	2.49 RT	667.72	694.72	695.72	712.09	714.09	44.37	48.00	W33X169	17	11.75 in
40	22+94.21	2.49 RT	667.72	694.72	695.72	712.07	714.07	44.35	48.00	W33X169	17	11.75 in
41	23+00.96	2.49 RT	667.85	694.85	695.85	712.04	714.04	44.19	48.00	W33X169	17	11.75 in
42	23+07.54	2.49 RT	667.85	694.85	695.85	712.02	714.02	44.17	48.00	W33X169	17	11.75 in
43	23+14.13	2.49 RT	667.85	694.85	695.85	712.00	714.00	44.15	48.00	W33X169	17	11.50 in

Preliminary Plans For Reference Only

NOTES:

1. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/14.
2. FOR TYPICAL WALL SECTION, SEE SHEET 11/14.
3. FOR WALL FACING ELEVATIONS, SEE SHEETS 5/14 THRU 10/14.

PILE AND DRILLED SHAFT SIZE AND DIMENSION TABLE
RETAINING WALL 2

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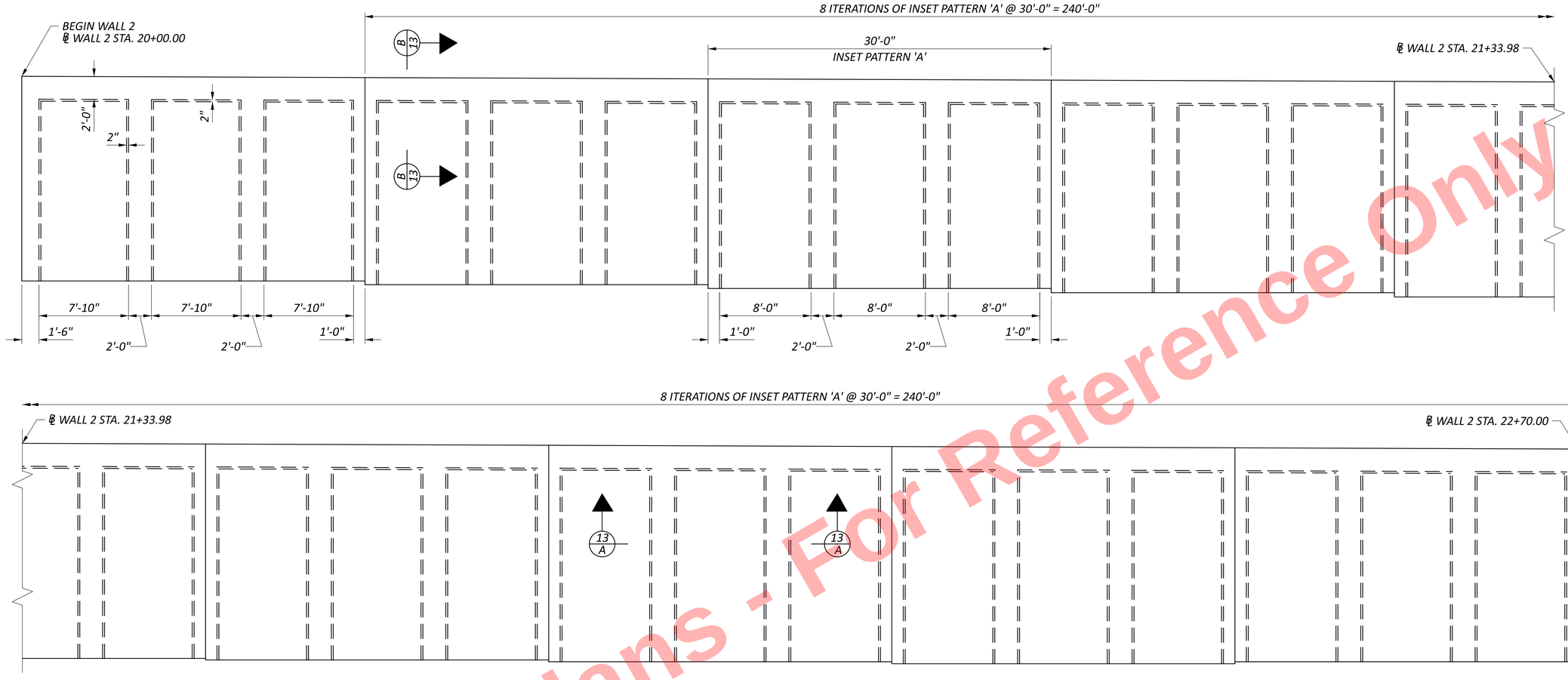
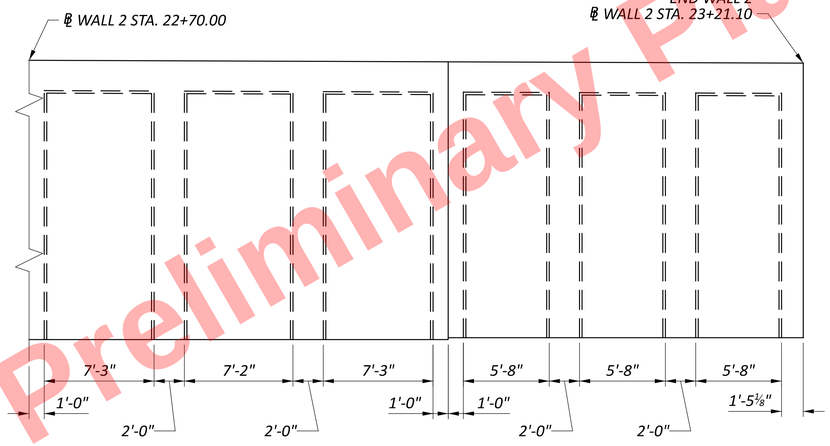
DESIGN AGENCY: TRC

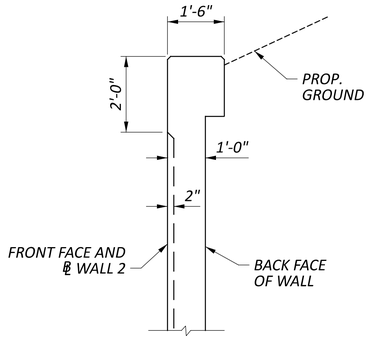
DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET / TOTAL	12 / 14
SHEET / TOTAL	P.910 / P.1269



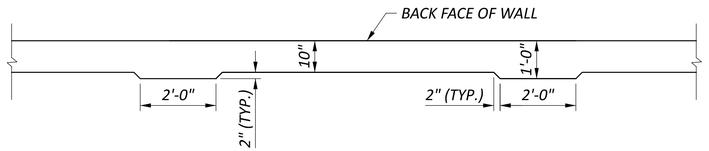


AESTHETIC WALL FACING ELEVATION

(LOOKING AT BACK FACE OF WALL)



SECTION B-B



SECTION A-A

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. PAYMENT FOR ALL FORMWORK, MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO PRODUCE THE AESTHETIC WALL FACING PATTERN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 511, CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN.
3. FOR WALL FACING ELEVATIONS, SEE SHEETS 5/14 THRU 10/14.

Preliminary Plans - For Reference Only

AESTHETIC DETAILS
RETAINING WALL 2

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 13 | TOTAL 14

SHEET P.911 | TOTAL P.1269

CUY-77-11.41 - PART 1

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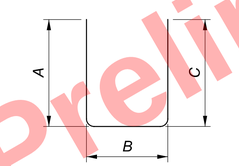
MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
W401	332	4'-9"	1053	2	2'-2"	1'-1"	1'-8"				
W402	62	17'-5"	721	STR							
W403	62	17'-8"	732	STR							
W404	62	17'-10"	739	STR							
W405	62	18'-1"	749	STR							
W406	186	18'-5"	2288	STR							
W407	62	18'-6"	766	STR							
W408	62	18'-2"	752	STR							
W409	58	18'-0"	697	STR							
W410	48	17'-9"	569	STR							
W601	350	29'-8"	15596	STR							
W602	36	27'-4"	1478	STR							
W701	54	23'-1"	2548	STR							
TOTAL			28,688								



TYPE-2

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. ALL REINFORCING STEEL TO BE EPOXY COATED.

Preliminary Plans - For Reference Only

REINFORCING STEEL LIST
RETAINING WALL 2

DESIGN AGENCY TRC

DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 14 | TOTAL 14

SHEET P.912 | TOTAL P.1269

CUY-77-11.41 - PART 1

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Preliminary Plans - For Reference Only

MODEL: WALL 3 SITE PLAN - 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:39:49 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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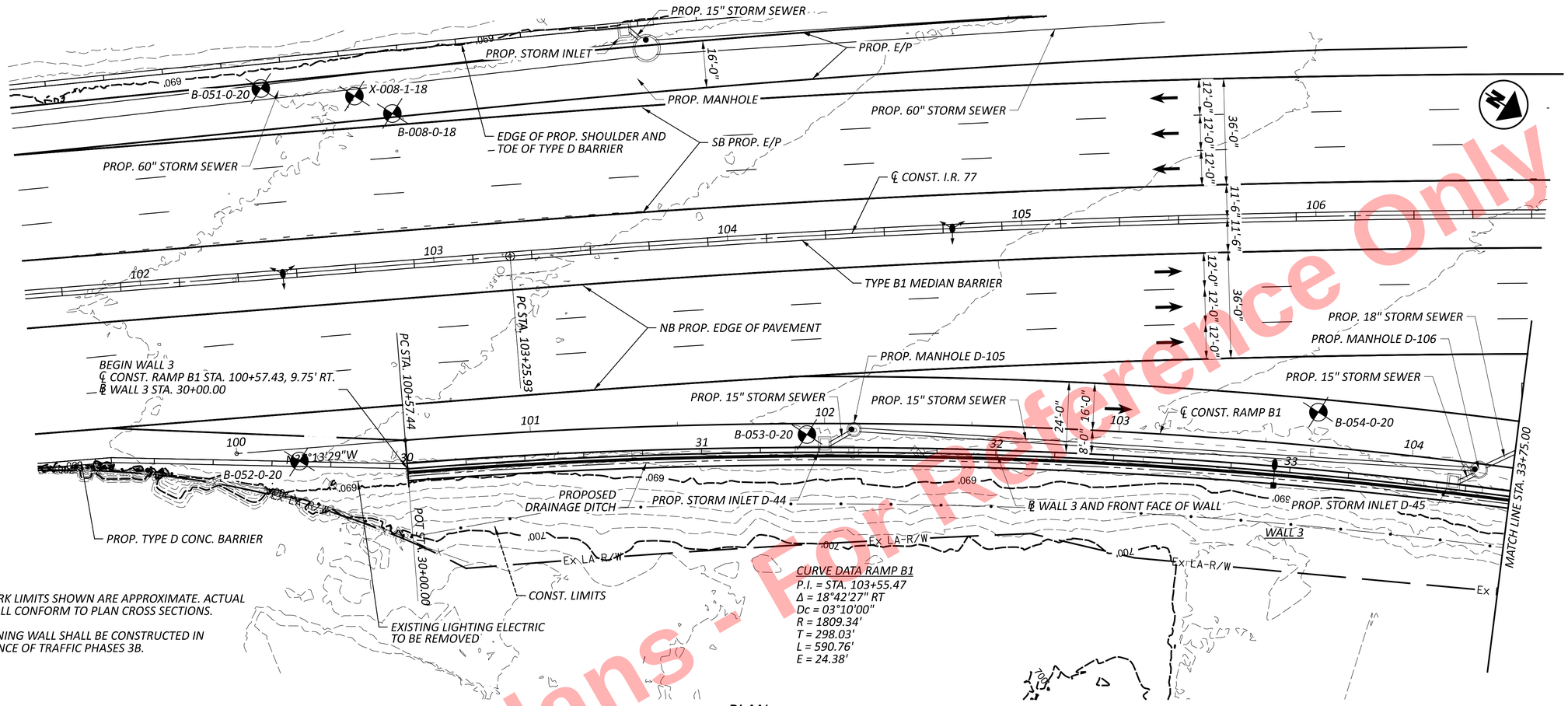


NOTES:

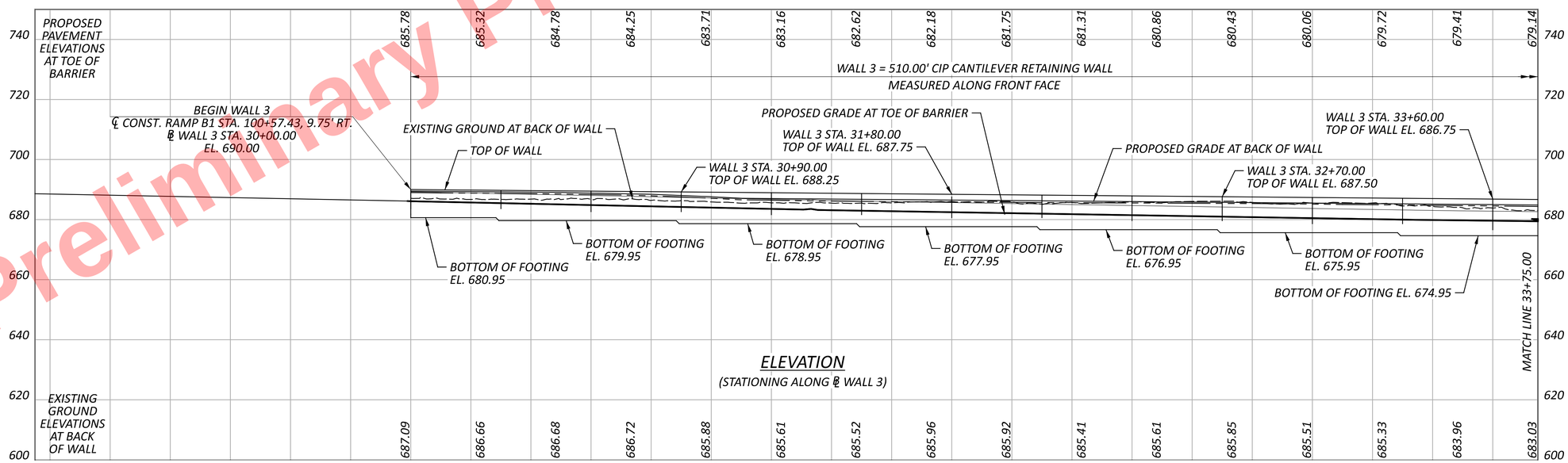
1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 3B.

CURVE DATA RAMP B1
P.I. = STA. 103+55.47
Δ = 18°42'27" RT
Dc = 03°10'00"
R = 1809.34'
T = 298.03'
L = 590.76'
E = 24.38'

LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION

PLAN



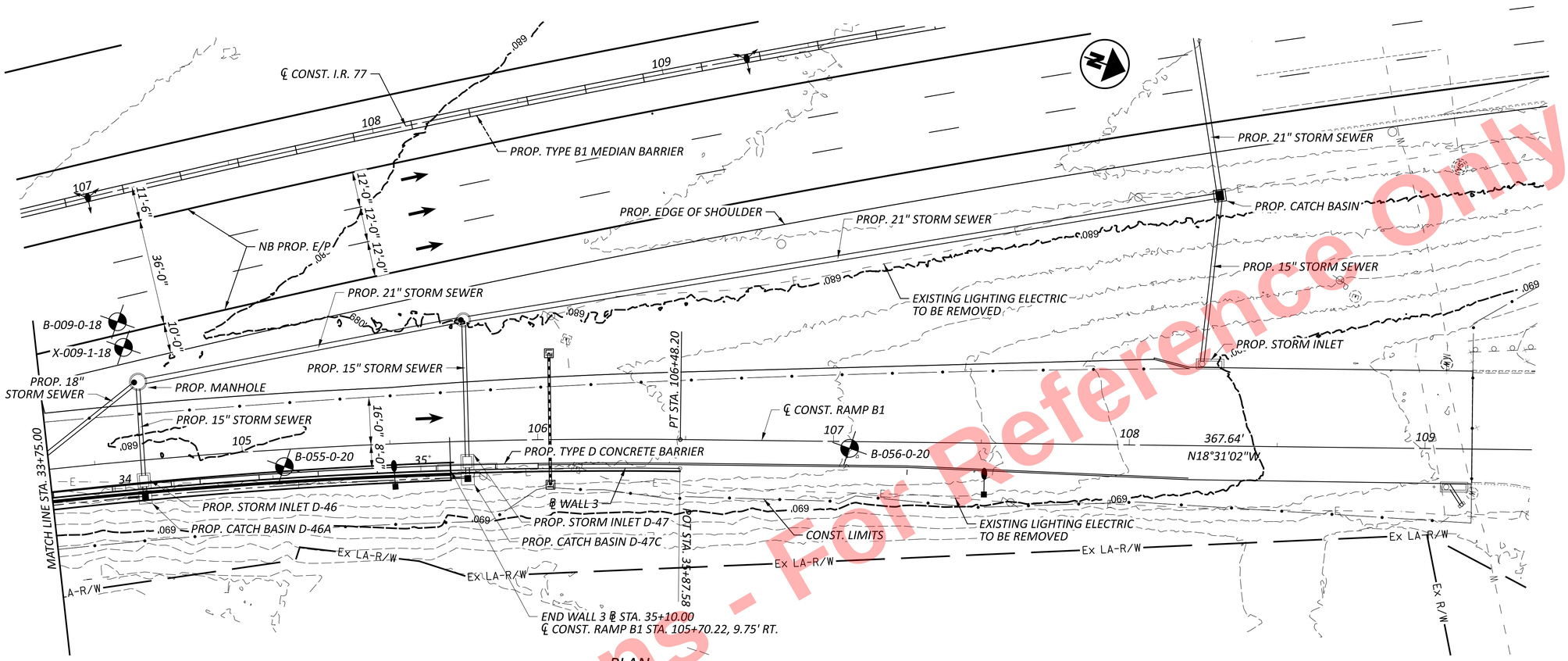
ELEVATION

(STATIONING ALONG ℄ WALL 3)

SITE PLAN 1 OF 2
RETAINING WALL 3

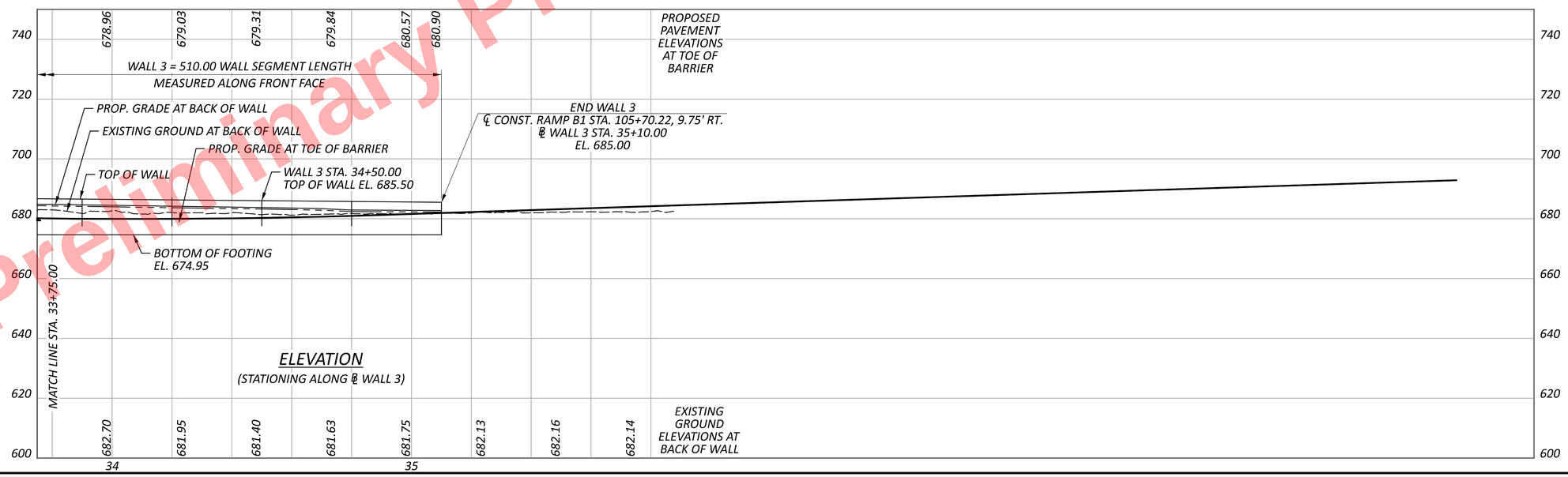
DESIGN AGENCY: TRC

DESIGNER	JCP
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	1
TOTAL	14
SHEET	P.913
TOTAL	P.1269



LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION



Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

SITE PLAN 2 OF 2
RETAINING WALL 3

DESIGN AGENCY
TRC

DESIGNER JCP
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 2 | TOTAL 14
SHEET P.914 | TOTAL P.1269

MODEL: WALL 3 SITE PLAN - 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:39:56 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO THE 10TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

EPOXY COATED REINFORCING STEEL - MIN. YIELD STRENGTH 60 KSI

FOUNDATION BEARING RESISTANCE

THE RETAINING WALL FOOTING BETWEEN STA. 30+00 AND STA. 32+10, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LOAD PRESSURE OF 1.52 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 1.99 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 5.40 KIPS PER SQUARE FOOT.

THE RETAINING WALL FOOTING BETWEEN STA. 32+10 AND STA. 33+90, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LOAD PRESSURE OF 1.70 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 2.19 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 7.10 KIPS PER SQUARE FOOT.

THE RETAINING WALL FOOTING BETWEEN STA. 33+90 AND STA. 35+10, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LOAD PRESSURE OF 1.60 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 2.06 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 6.40 KIPS PER SQUARE FOOT.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

ABBREVIATIONS:

ABUT. - ABUTMENT
APPR. - APPROACH
B - BOTTOM
\ - BASELINE
B.F. - BACK FACE
BM - BENCHMARK
BOT. OR BTM. - BOTTOM
| - CENTERLINE
C/C - CENTER TO CENTER
C.I.P. - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEAR
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONC. - CONCRETE
CONST. - CONSTRUCTION
DIA. - DIAMETER
DIM. - DIMENSION
DWG. - DRAWING
E.F. - EACH FACE
EL. OR ELEV. - ELEVATION
EQ. - EQUAL
EQ. - EQUAL
EST. - ESTIMATED
EX. - EXISTING
F/F - FACE TO FACE
F.F. - FRONT FACE
FT. - FOOT OR FEET
FTG. - FOOTING
FWD. - FORWARD
IN. - INCH
JT. - JOINT
LT. - LEFT
MAX. - MAXIMUM
MIN. - MINIMUM
MISC. - MISCELLANEOUS
MSE - MECHANICALLY STABILIZED EARTH
N - NORTH
NB - NORTHBOUND
NO. - NUMBER
N.P.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE
OHWM - ORDINARY HIGH WATER MARK
O/O - OUT TO OUT
P.C.P.P. - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER
PROP. - PROPOSED
PSF - POUNDS PER SQUARE FOOT
S - SOUTH
SB - SOUTHBOUND
SER. - SERIES
SHLDR - SHOULDER
SPA. - SPACE OR SPACES
STA. - STATION
STD. - STANDARD
STR - STRAIGHT
T - TOP
T&B - TOP & BOTTOM
TBR - TO BE REMOVED
TEMP. - TEMPORARY
TYP. - TYPICAL
U.N.O. - UNLESS NOTED OTHERWISE
VAR. - VARIES
VERT. - VERTICAL

ESTIMATED QUANTITIES (WALL 3)

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
203	20000	598	CY	EMBANKMENT	
503	21100	1565	CY	UNCLASSIFIED EXCAVATION	
509	10000	50385	LB	EPOXY COATED STEEL REINFORCEMENT	
511	46012	206	CY	CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING	
511	46512	520	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING	
512	10101	227	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	3
512	33000	38	SY	TYPE 2 WATERPROOFING	
516	13600	1881	SF	1" PREFORMED EXPANSION JOINT FILLER	
518	20000	369	SY	PREFABRICATED GEOCOMPOSITE DRAIN	
518	21200	75	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
518	40000	505	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
518	40010	9	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1
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GENERAL NOTES AND QUANTITIES
RETAINING WALL 3

DESIGN AGENCY
TRC

DESIGNER JCP
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 3 | TOTAL 14
SHEET P.915 | TOTAL P.1269

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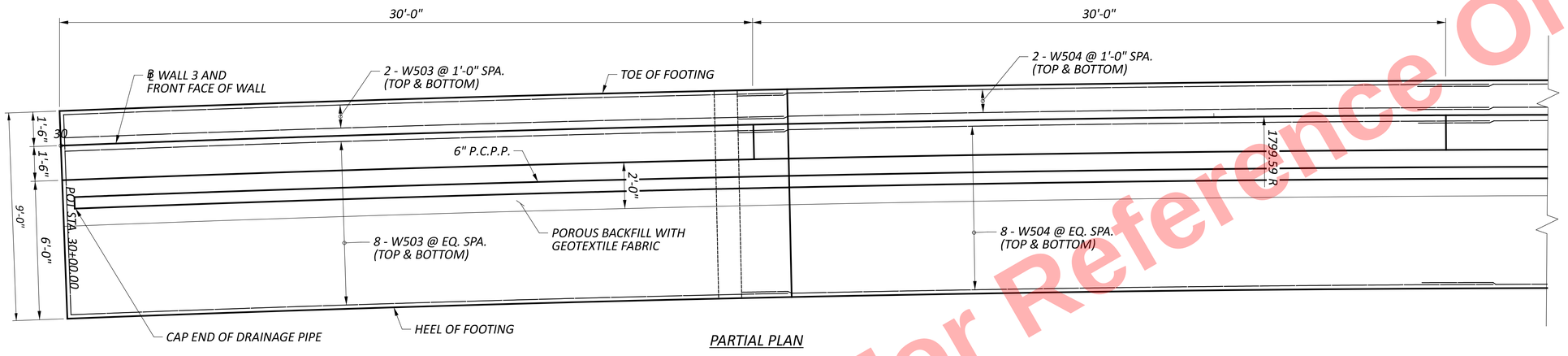
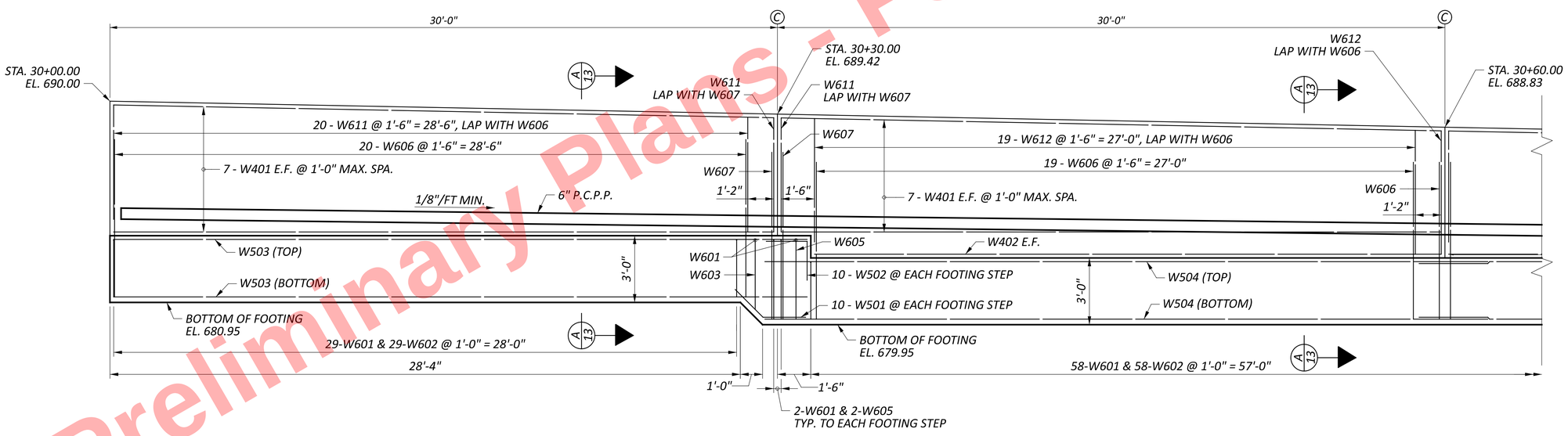


PARTIAL PLAN



PARTIAL ELEVATION

MINIMUM LAP LENGTHS	
NO. 5 BAR	*3'-1"*
NO. 6 BAR	*3'-7"*

LEGEND:

℄ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. *ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.*
2. *FOR SECTION A-A, SEE SHEET 13/14.*
3. *FOR REINFORCING STEEL LIST, SEE SHEET 14/14.*

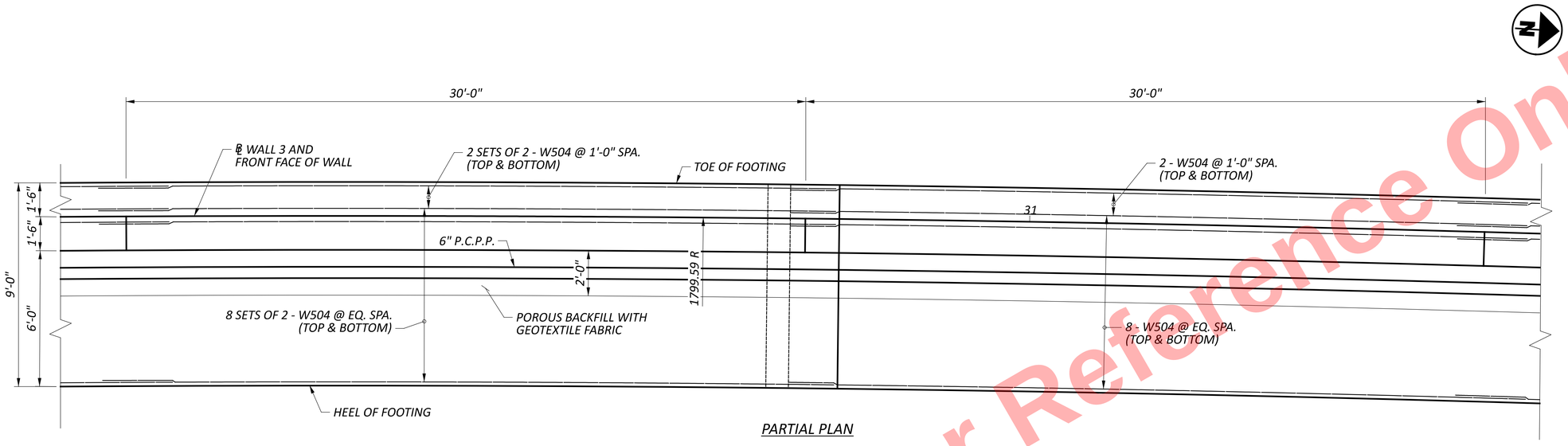
Preliminary Plans - For Reference Only

WALL ELEVATION AND REINFORCEMENT DETAILS
RETAINING WALL 3

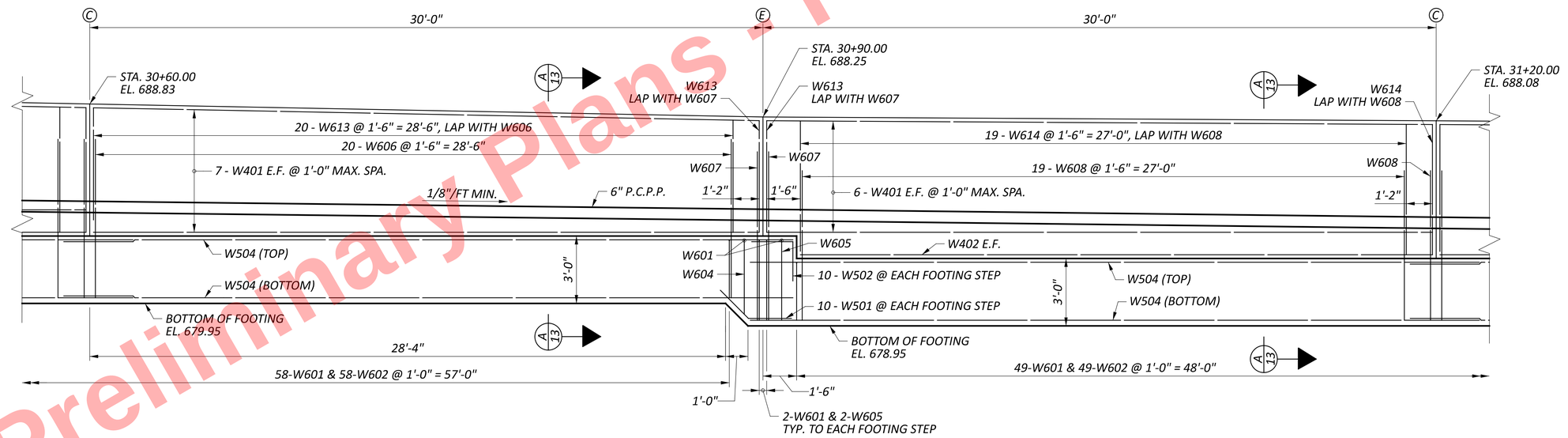
DESIGN AGENCY
TRC

DESIGNER	JCP
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	4
TOTAL	14
SHEET	P.916
TOTAL	P.1269

Preliminary Plans - For Reference Only



PARTIAL PLAN



PARTIAL ELEVATION

MINIMUM LAP LENGTHS	
NO. 5 BAR	3'-1"
NO. 6 BAR	3'-7"

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR SECTION A-A, SEE SHEET 13/14.
3. FOR REINFORCING STEEL LIST, SEE SHEET 14/14.

WALL ELEVATION AND REINFORCEMENT DETAILS
RETAINING WALL 3

DESIGN AGENCY
TRC

DESIGNER	JCP
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	5
TOTAL	14
SHEET	P.917
TOTAL	P.1269

CUY-77-11.41 - PART 1

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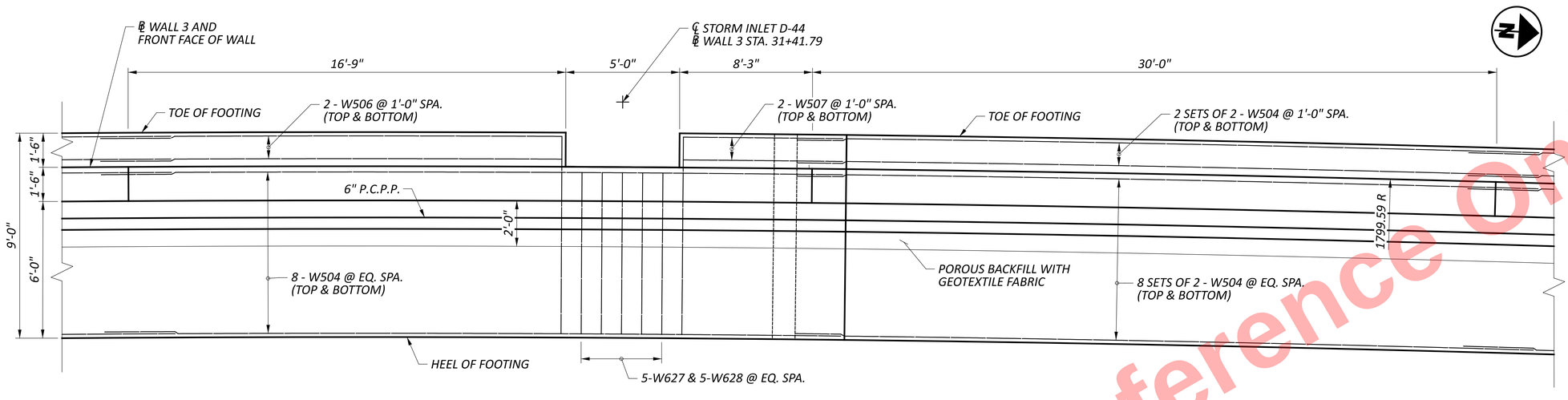
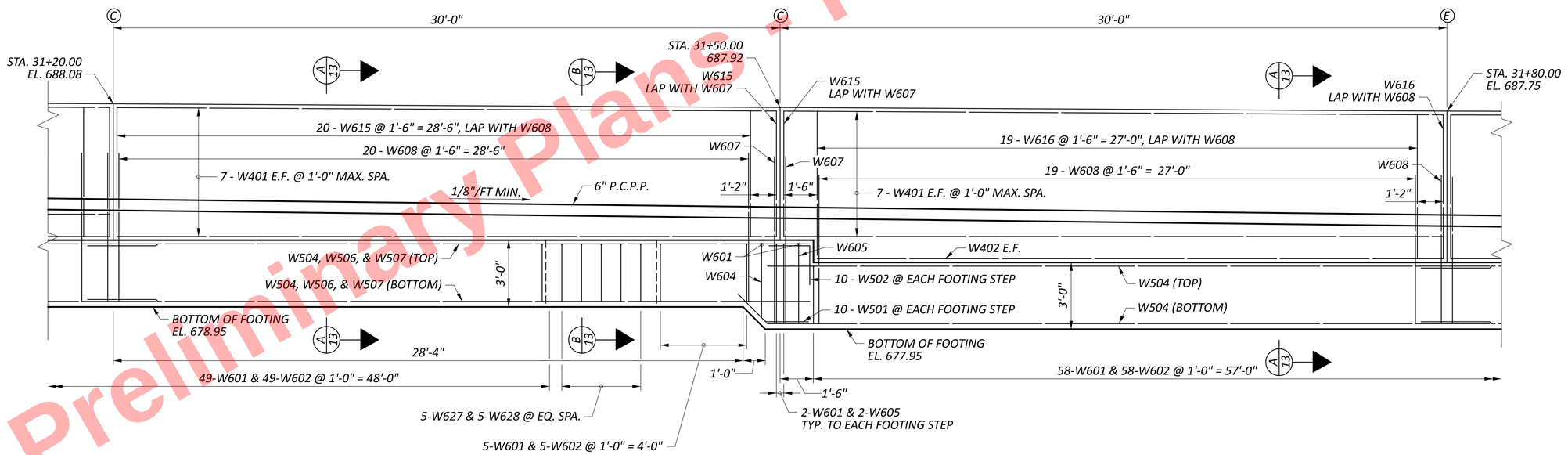


PARTIAL PLAN



PARTIAL ELEVATION

MINIMUM LAP LENGTHS	
NO. 5 BAR	3'-1"
NO. 6 BAR	3'-7"

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR SECTION A-A AND SECTION B-B, SEE SHEET 13/14.
3. FOR REINFORCING STEEL LIST, SEE SHEET 14/14.

Preliminary Plans - For Reference Only

WALL ELEVATION AND REINFORCEMENT DETAILS
RETAINING WALL 3

DESIGN AGENCY: TRC

DESIGNER: JCP

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 6 | TOTAL: 14

SHEET: P.918 | TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet Panel 5-6 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:40:19 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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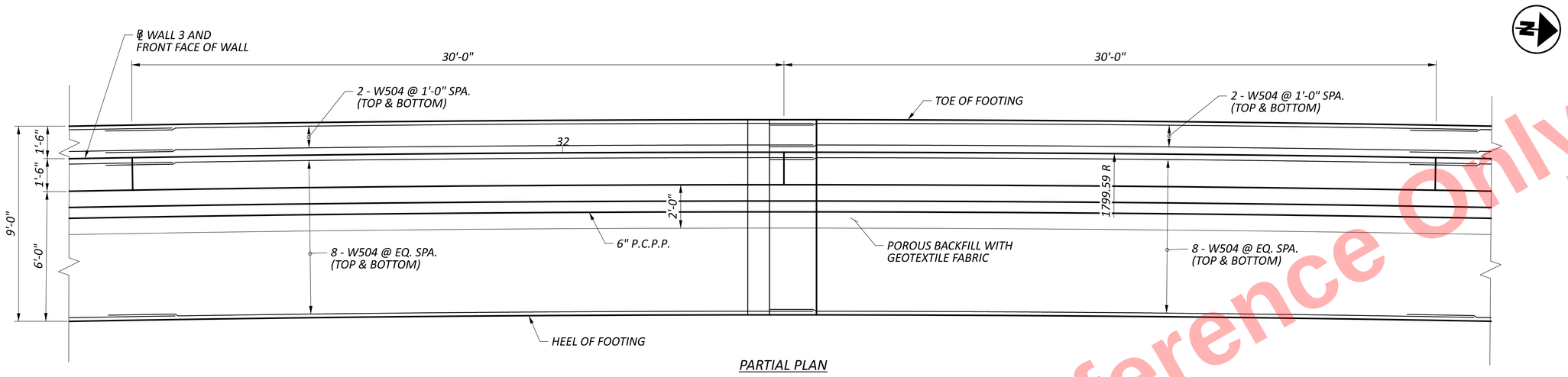
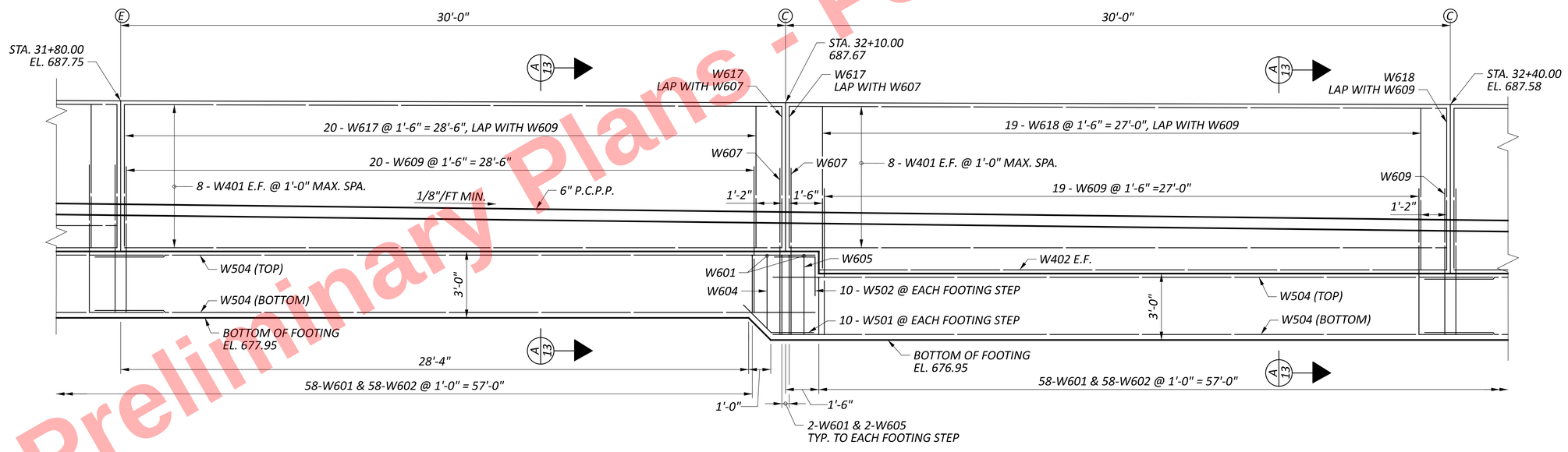


PARTIAL PLAN



PARTIAL ELEVATION

MINIMUM LAP LENGTHS	
NO. 5 BAR	3'-1"
NO. 6 BAR	3'-7"

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR SECTION A-A, SEE SHEET 13/14.
3. FOR REINFORCING STEEL LIST, SEE SHEET 14/14.

Preliminary Plans - For Reference Only

WALL ELEVATION AND REINFORCEMENT DETAILS
RETAINING WALL 3

DESIGN AGENCY: TRC

DESIGNER: JCP

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 7 TOTAL: 14

SHEET: P.919 TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet Panel 7-8 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:40:20 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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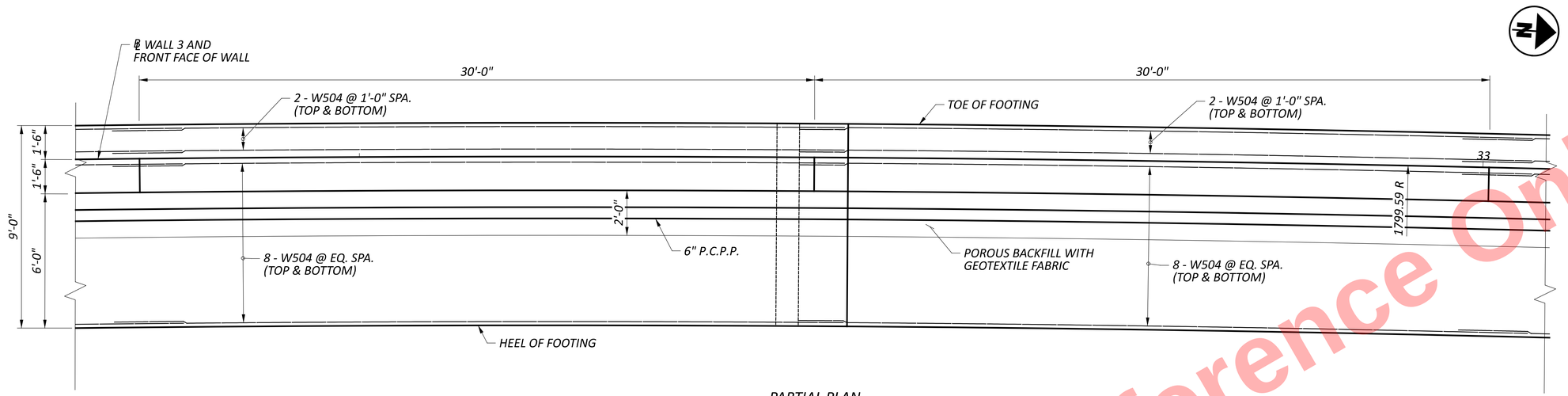
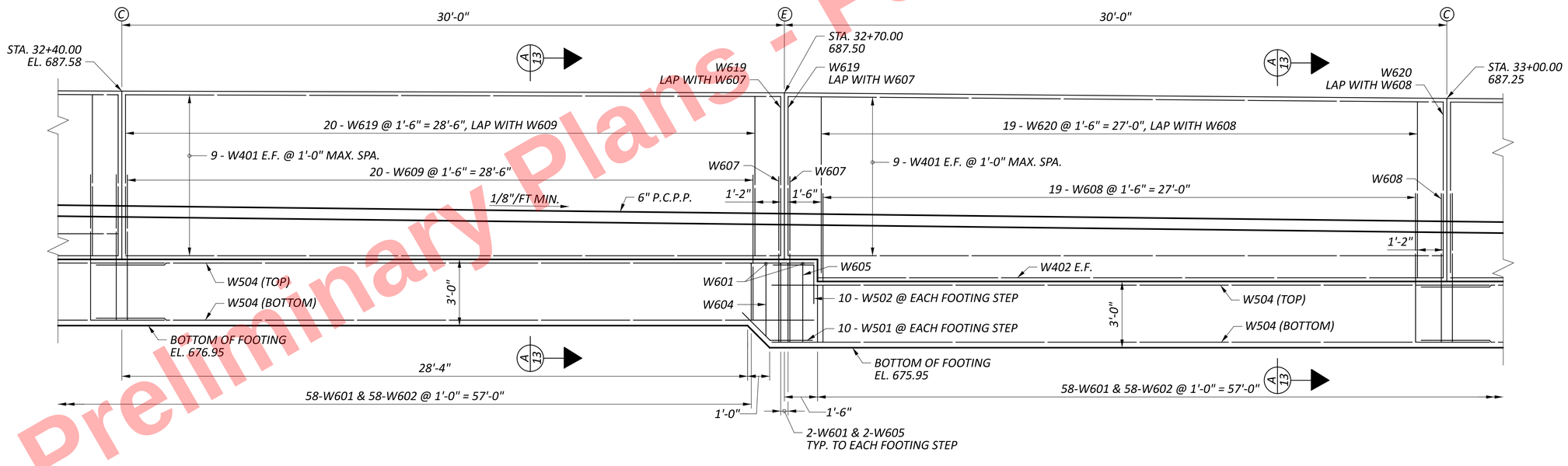


PARTIAL PLAN



PARTIAL ELEVATION

MINIMUM LAP LENGTHS	
NO. 5 BAR	3'-1"
NO. 6 BAR	3'-7"

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR SECTION A-A, SEE SHEET 13/14.
3. FOR REINFORCING STEEL LIST, SEE SHEET 14/14.

Preliminary Plans - For Reference Only

WALL ELEVATION AND REINFORCEMENT DETAILS
RETAINING WALL 3

DESIGN AGENCY: TRC

DESIGNER: JCP

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 8 | TOTAL: 14

SHEET: P.920 | TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet Panel 9-10 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:40:20 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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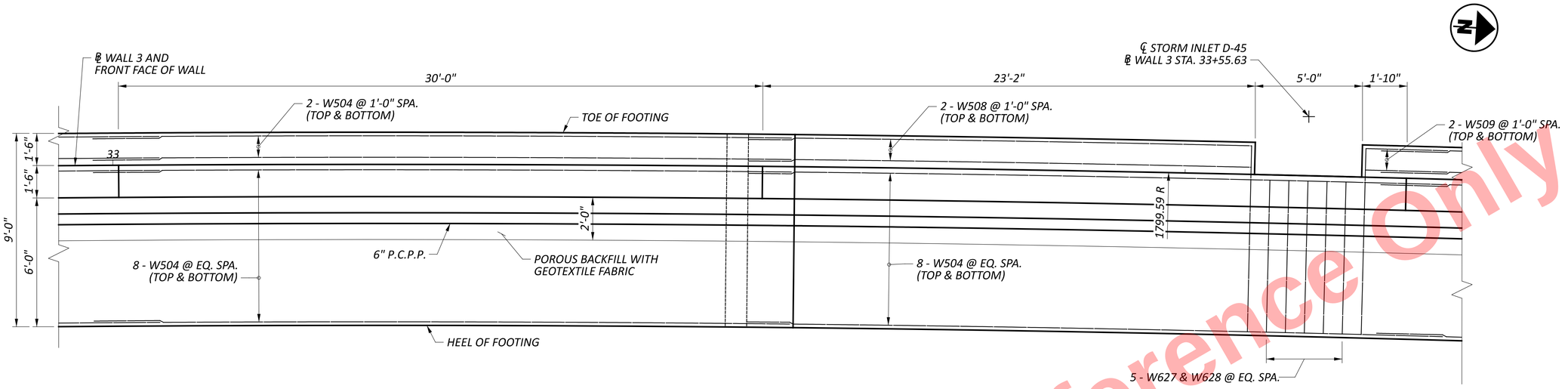
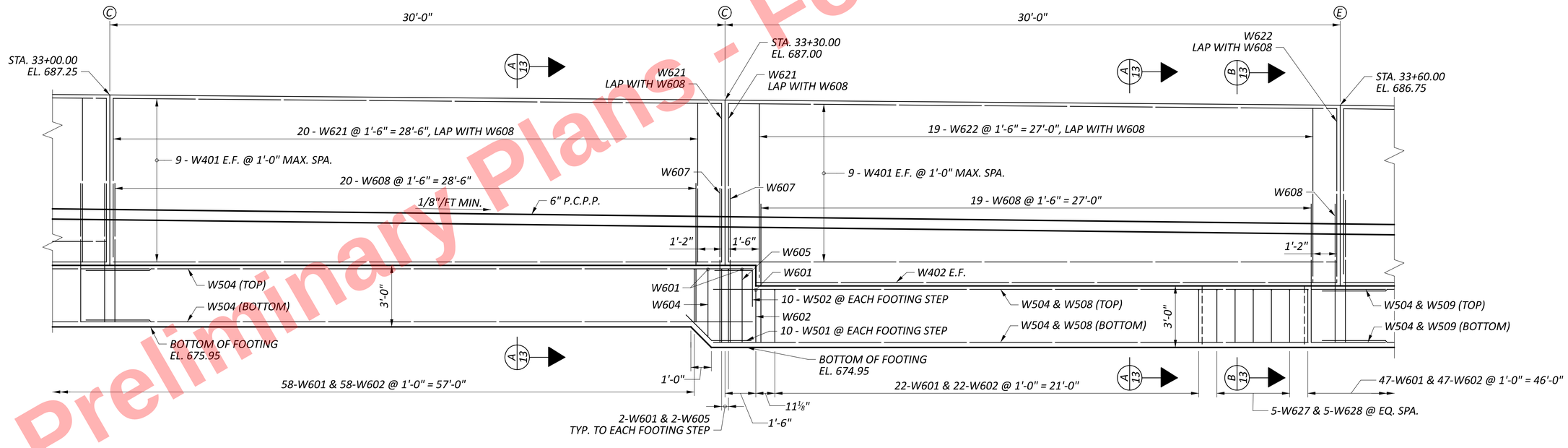


PARTIAL PLAN



PARTIAL ELEVATION

MINIMUM LAP LENGTHS	
NO. 5 BAR	3'-1"
NO. 6 BAR	3'-7"

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR SECTION A-A AND SECTION B-B, SEE SHEET 13/14.
3. FOR REINFORCING STEEL LIST, SEE SHEET 14/14.

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: Sheet Panel 11-12 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:40:21 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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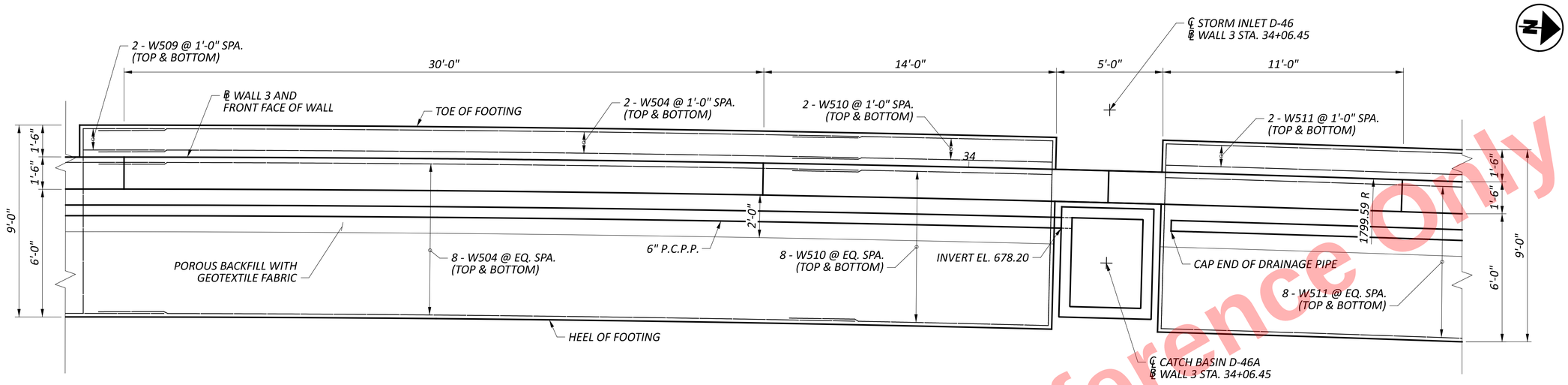
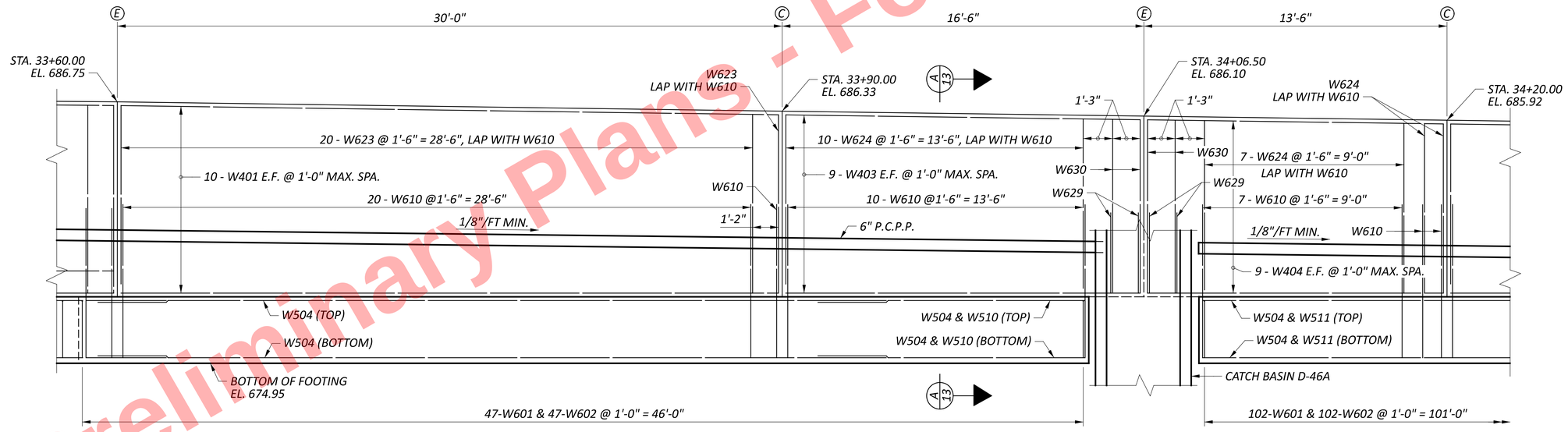
WALL ELEVATION AND REINFORCEMENT DETAILS
RETAINING WALL 3

DESIGN AGENCY TRC

DESIGNER	
JCP	
REVIEWER	
CJW 11/17/25	
PROJECT ID	
105743	
SUBSET	TOTAL
9	14
SHEET	TOTAL
P.921	P.1269



PARTIAL PLAN



PARTIAL ELEVATION

MINIMUM LAP LENGTHS	
NO. 5 BAR	3'-1"
NO. 6 BAR	3'-7"

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR SECTION A-A, SEE SHEET 13/14.
3. FOR REINFORCING STEEL LIST, SEE SHEET 14/14.
4. SEE DRAINAGE PLANS FOR CATCH BASIN DETAILS.

Preliminary Plans - Not For Reference Only

CUY-77-11.41 - PART 1

MODEL: Sheet Panel 13-14 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:40:22 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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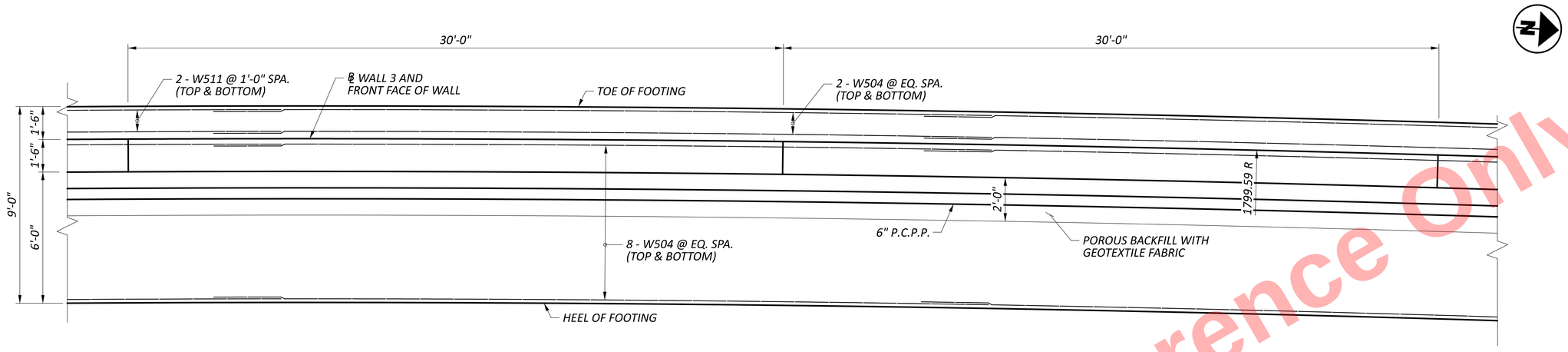
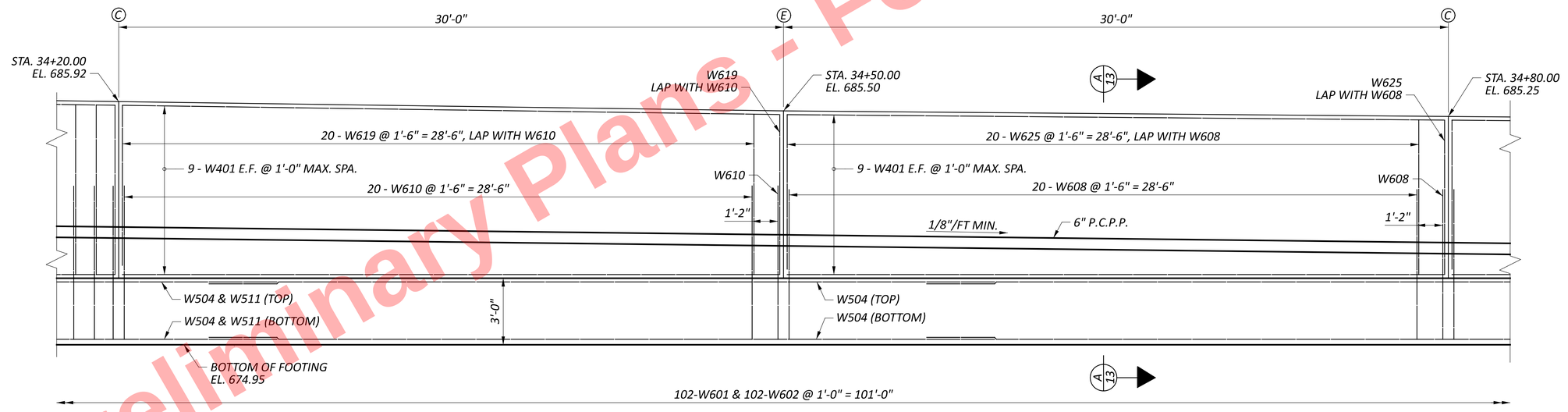
WALL ELEVATION AND REINFORCEMENT DETAILS
RETAINING WALL 3

DESIGN AGENCY
TRC

DESIGNER JCP
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 10 TOTAL 14
SHEET P.922 TOTAL P.1269



PARTIAL PLAN



PARTIAL ELEVATION

MINIMUM LAP LENGTHS	
NO. 5 BAR	3'-1"
NO. 6 BAR	3'-7"

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR SECTION A-A, SEE SHEET 13/14.
3. FOR REINFORCING STEEL LIST, SEE SHEET 14/14.

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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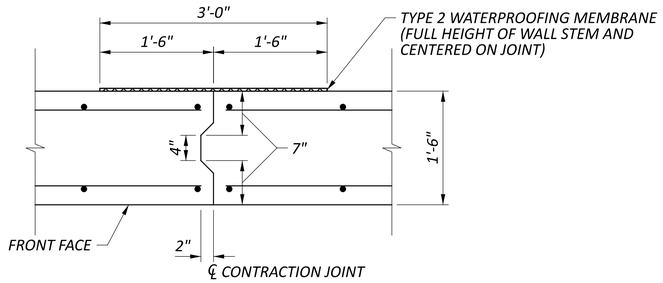
WALL ELEVATION AND REINFORCEMENT DETAILS
RETAINING WALL 3

DESIGN AGENCY
TRC

DESIGNER	
JCP	
REVIEWER	
CJW	11/17/25
PROJECT ID	
105743	
SUBSET	TOTAL
11	14
SHEET	TOTAL
P.923	P.1269



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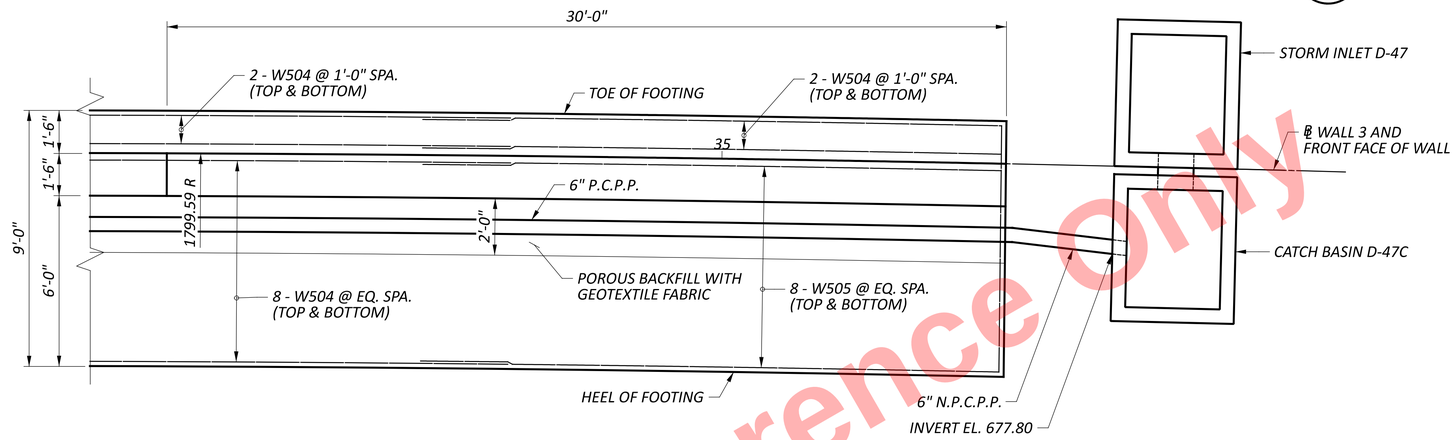
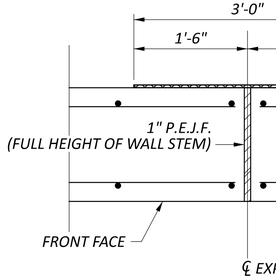
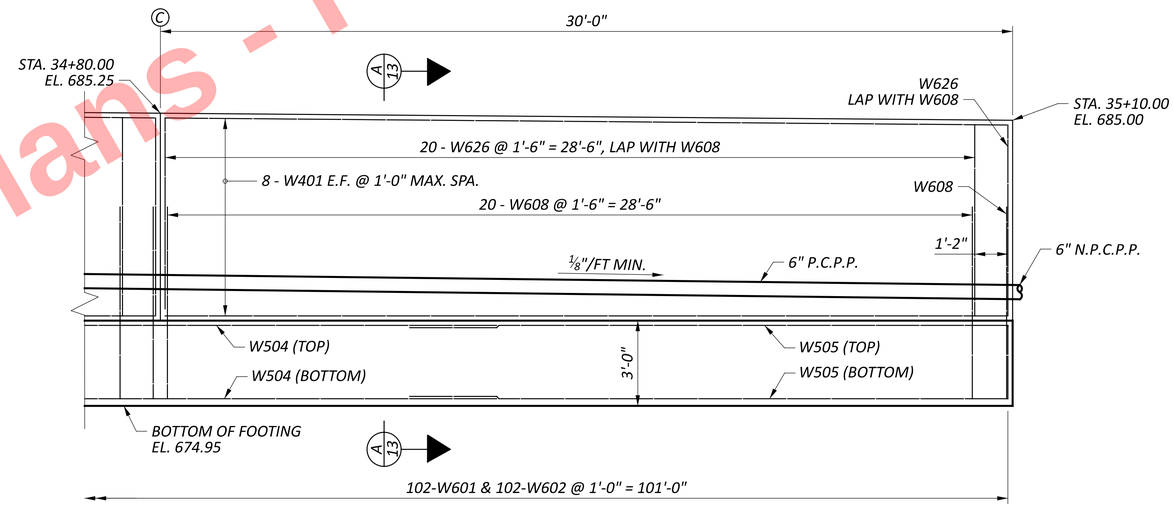


PARTIAL PLAN



EXPANSION JOINT DETAIL



PARTIAL ELEVATION

MINIMUM LAP LENGTHS	
NO. 5 BAR	3'-1"
NO. 6 BAR	3'-7"

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR SECTION A-A, SEE SHEET 13/14.
3. FOR REINFORCING STEEL LIST, SEE SHEET 14/14.
4. SEE DRAINAGE PLANS FOR STORM INLET DETAILS.

Preliminary Plans - For Reference Only

WALL ELEVATION AND REINFORCEMENT DETAILS
RETAINING WALL 3

DESIGN AGENCY: TRC

DESIGNER: JCP

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 12 | TOTAL: 14

SHEET: P.924 | TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet Panel 17 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:40:23 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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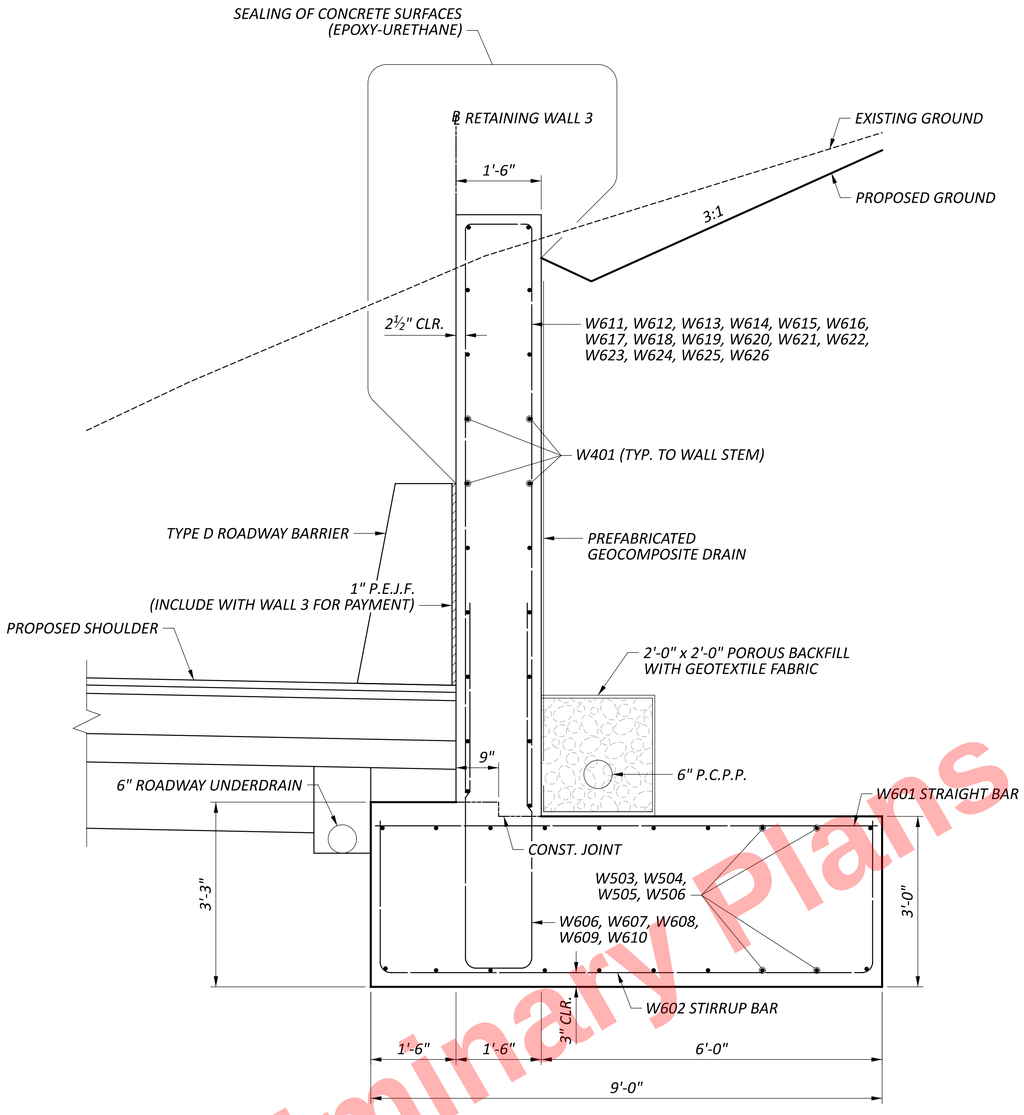
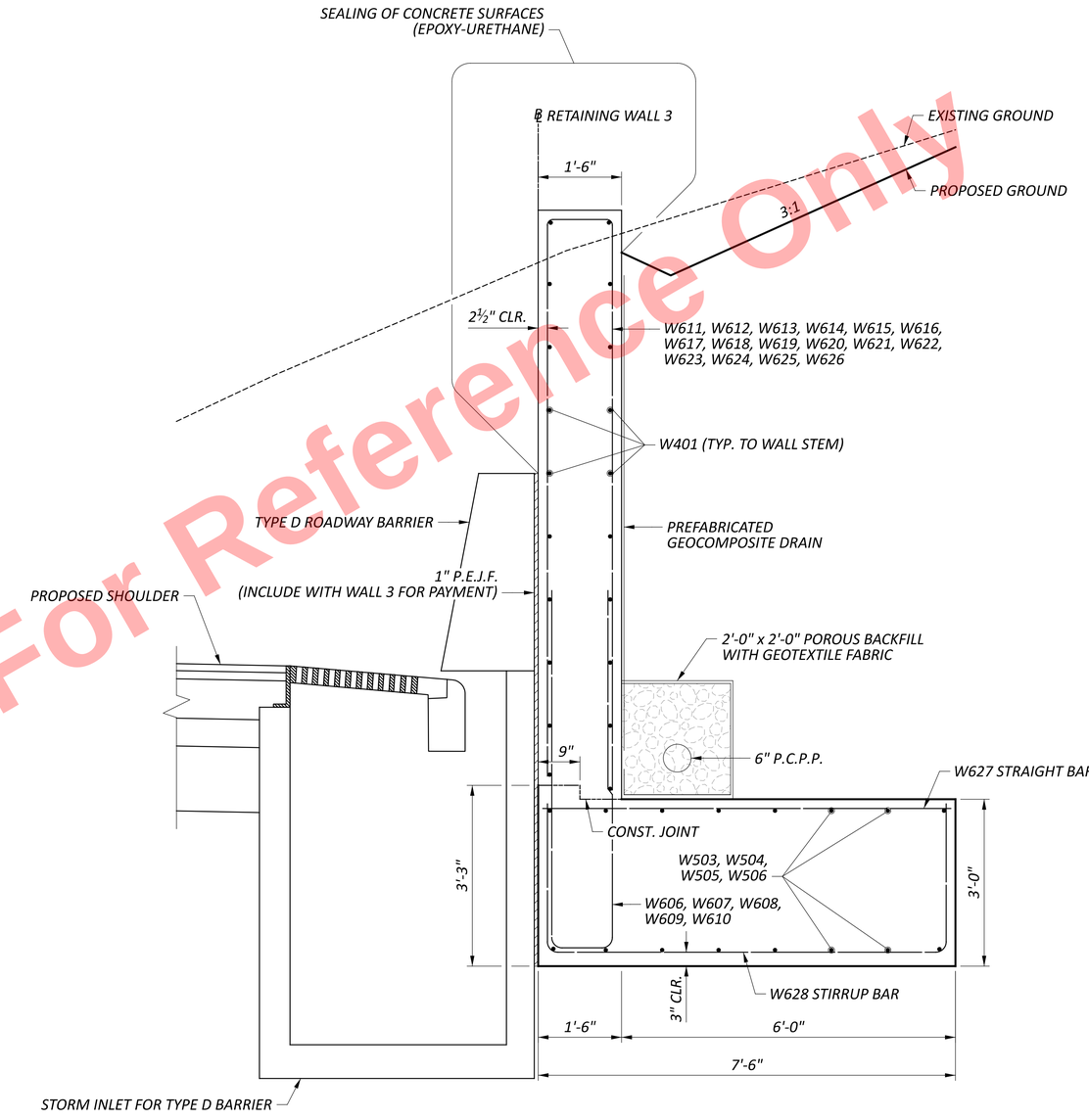
Preliminary Plans - For Reference Only



SECTION A-A



SECTION B-B

NOTES:

1. FOR WALL ELEVATIONS, SEE SHEETS 4/14 THRU 12/14.
2. FOR REINFORCING STEEL LIST, SEE SHEET 14/14.
3. SEE DRAINAGE PLANS FOR STORM INLET DETAILS.
4. PREFABRICATED GEOCOMPOSITE DRAIN SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BEHIND THE WALL STEM.

TYPICAL SECTIONS
RETAINING WALL 3

CUY-77-11.41 - PART 1

MODEL: Wall 3 Typical Sections PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:40:30 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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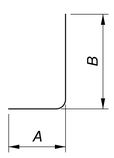
DESIGN AGENCY
TRC

DESIGNER	JCP
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	13
TOTAL	14
SHEET	P.925
TOTAL	P.1269

MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
WALL 3 REINFORCEMENT											
W401	258	29'-8"	5113	STR							
W402	12	28'-2"	226	STR							
W403	18	16'-0"	192	STR							
W404	18	13'-2"	158	STR							
W501	60	4'-11"	308	19	3'-1"	1'-4"	1'-4"				
W502	60	4'-9"	297	1	3'-1"	1'-10"					
W503	20	31'-2"	650	STR							
W504	272	32'-7"	9244	STR							
W505	20	26'-10"	560	STR							
W506	4	20'-4"	85	STR							
W508	4	23'-6"	98	STR							
W509	4	3'-10"	16	STR							
W510	20	12'-3"	256	STR							
W511	20	18'-2"	379	STR							
W601	511	8'-8"	6652	STR							
W602	487	13'-6"	9875	2	2'-7"	8'-8"	2'-7"				
W603	1	14'-8"	22	2	3'-2"	8'-8"	3'-2"				
W604	5	15'-0"	113	2	3'-4"	8'-8"	3'-4"				
W605	18	15'-6"	419	2	3'-7"	8'-8"	3'-7"				
W606	60	15'-3"	1374	2	7'-3"	1'-1"	7'-3"				
W607	12	15'-11"	287	2	7'-7"	1'-1"	7'-7"				
W608	162	14'-3"	3467	2	6'-9"	1'-1"	6'-9"				
W609	60	14'-5"	1299	2	6'-10"	1'-1"	6'-10"				
W610	61	14'-11"	1367	2	7'-1"	1'-1"	7'-1"				
W611	22	10'-9"	355	2	5'-0"	1'-1"	5'-0"				
W612	20	11'-7"	348	2	5'-5"	1'-1"	5'-5"				
W613	22	10'-5"	344	2	4'-10"	1'-1"	4'-10"				
W614	20	12'-1"	363	2	5'-8"	1'-1"	5'-8"				
W615	22	11'-9"	388	2	5'-6"	1'-1"	5'-6"				
W616	20	13'-5"	403	2	6'-4"	1'-1"	6'-4"				
W617	22	13'-3"	438	2	6'-3"	1'-1"	6'-3"				
W618	20	15'-1"	453	2	7'-2"	1'-1"	7'-2"				
W619	43	14'-11"	963	2	7'-1"	1'-1"	7'-1"				
W620	20	16'-5"	493	2	7'-10"	1'-1"	7'-10"				
W621	22	15'-11"	526	2	7'-7"	1'-1"	7'-7"				
W622	20	17'-5"	523	2	8'-4"	1'-1"	8'-4"				
W623	21	16'-7"	523	2	7'-11"	1'-1"	7'-11"				
W624	19	15'-9"	449	2	7'-6"	1'-1"	7'-6"				
W625	21	14'-5"	455	2	6'-10"	1'-1"	6'-10"				
W626	21	13'-11"	439	2	6'-7"	1'-1"	6'-7"				
W627	10	7'-2"	108	STR							
W628	10	12'-0"	180	2	2'-7"	7'-2"	2'-7"				
W629	4	8'-3"	50	2	3'-9"	1'-1"	3'-9"				
W630	4	16'-3"	98	2	7'-9"	1'-1"	7'-9"				
TOTAL	50,356										



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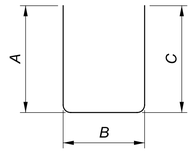

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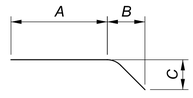


TYPE-19

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. ALL REINFORCING STEEL TO BE EPOXY COATED.

Preliminary Plans - For Reference Only

REINFORCING STEEL LIST
RETAINING WALL 3

DESIGN AGENCY TRC

DESIGNER JCP

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 14 | TOTAL 14

SHEET P.926 | TOTAL P.1269

CUY-77-11.41 - PART 1

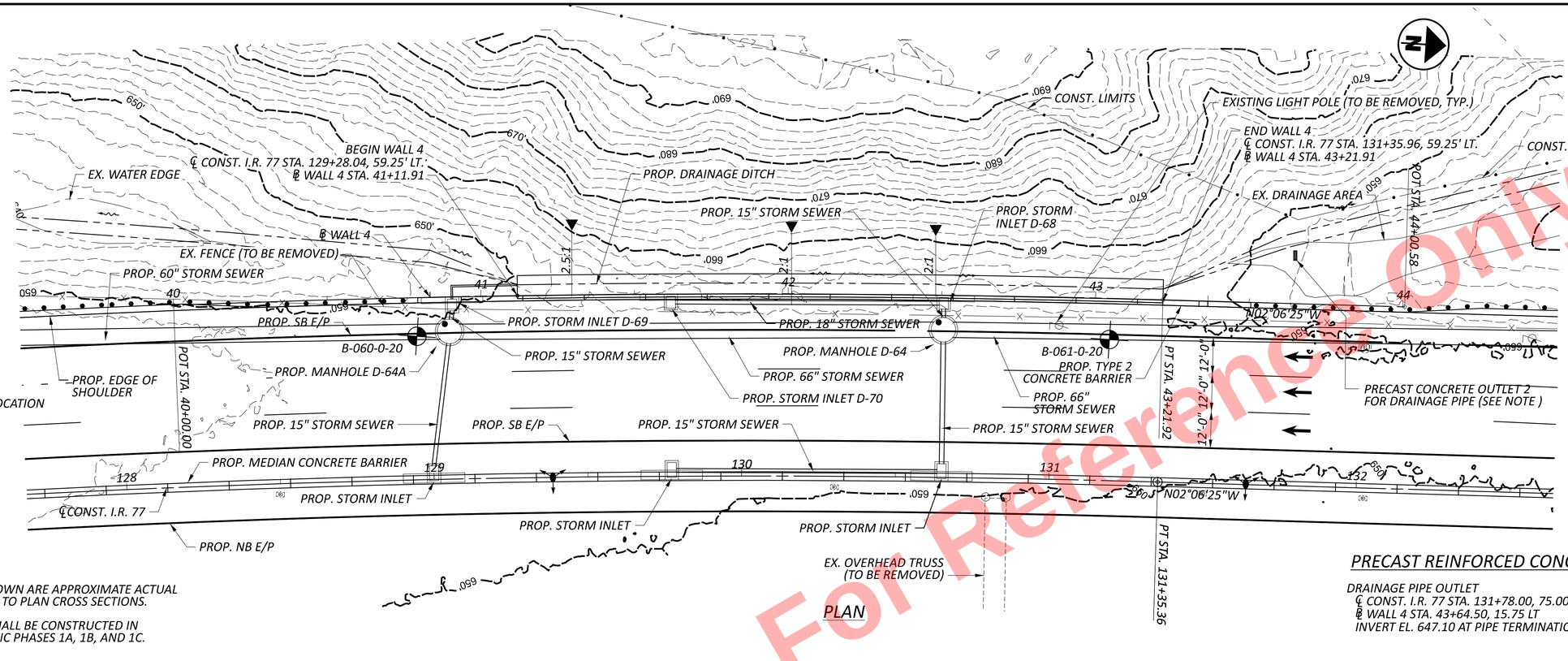
MODEL: Reinforcing Steel List PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:40:37 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Structures\WALL003\Sheets\105743_WALL003_WL001.dgn

CURVE DATA WALL 4
P.I. = STA. 41+61.02
Δ = 3°-58'-21" RT
Dc = 01°14'21" RT
R = 4,642.91'
T = 161.02'
L = 321.92'
E = 2.79'

CURVE DATA I.R. 77
P.I. = STA. 117+76.34
Δ = 35°-07'-04" RT
Dc = 01°-15'-00"
R = 4,583.66'
T = 1,450.41'
L = 2,809.43'
E = 224.00'

LEGEND:

- SOIL BORING LOCATION



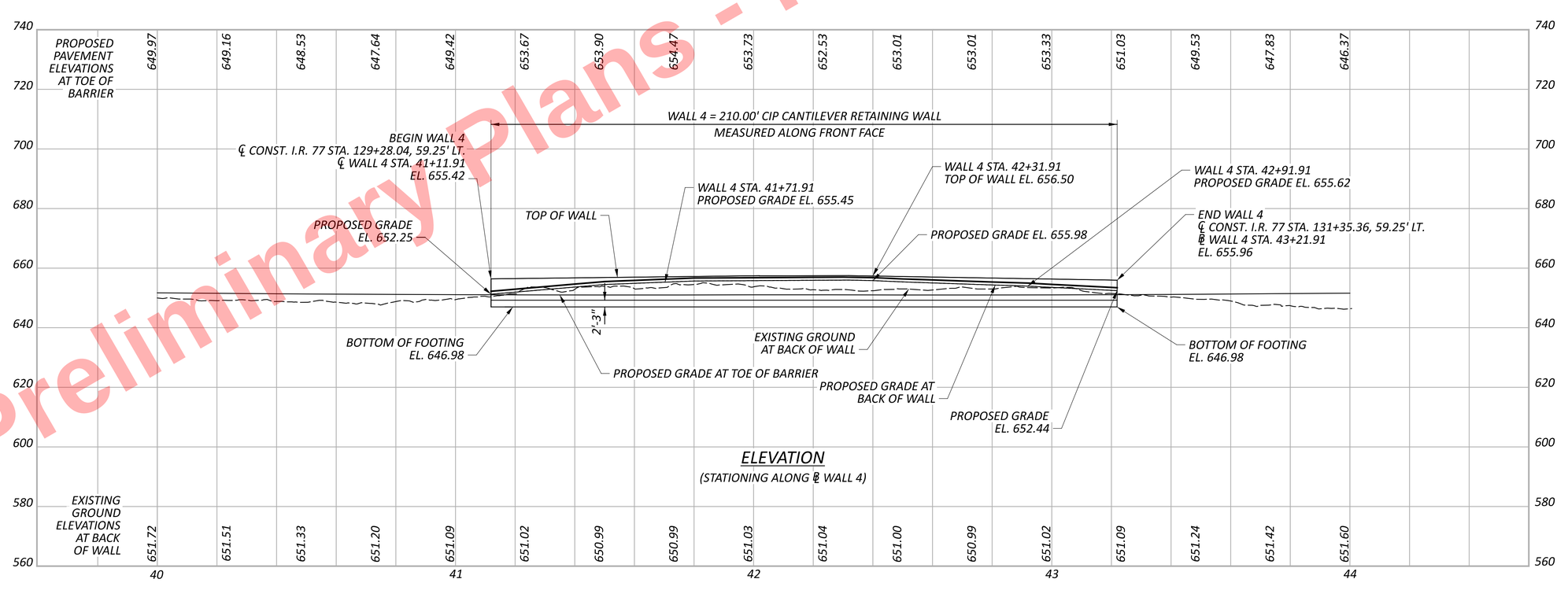
PLAN

NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A, 1B, AND 1C.

PRECAST REINFORCED CONCRETE OUTLETS:

DRAINAGE PIPE OUTLET
℄ CONST. I.R. 77 STA. 131+78.00, 75.00' LT
℄ WALL 4 STA. 43+64.50, 15.75 LT
INVERT EL. 647.10 AT PIPE TERMINATION



ELEVATION
(STATIONING ALONG ℄ WALL 4)

Preliminary Plans - Not For Reference Only

SITE PLAN
RETAINING WALL 4

CUY-77-11.41 - PART 1

DESIGN AGENCY: TRC
DESIGNER: JCP
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 1 TOTAL: 10
SHEET: P.927 TOTAL: P.1269

MODEL: BLP_004 - WALL 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:40:49 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO THE 10TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD DRAWINGS:
DM-1.1 REVISED 7/17/20

DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

EPOXY COATED REINFORCING STEEL - MIN. YIELD STRENGTH 60 KSI

FOUNDATION BEARING RESISTANCE:

THE RETAINING WALL FOOTING, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LOAD PRESSURE OF 1.30 KIPS PER SQUARE FOOT AND MAXIMUM STRENGTH LOAD PRESSURE OF 1.77 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 4.20 KIPS PER SQUARE FOOT.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN:

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL STEM AS DETAILED IN THE PLANS WITH AN EPOXY-URETHANE SEALER AS PER CMS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

DRAINAGE PIPE OUTLETS:

PRECAST CONCRETE OUTLET WITH TYPE 1 TIED CONCRETE BLOCK MAT SHALL BE INSTALLED AT EACH LOCATION OF DRAIN PIPE TERMINATION SPECIFIED IN THE PLANS. THE OUTLET INSTALLATION AND MATERIALS FURNISHED SHALL CONFORM TO STANDARD CONSTRUCTION DRAWING DM-1.1 AND THE REQUIREMENTS OF CMS 611.

ABBREVIATIONS:

ABUT. - ABUTMENT
APPR. - APPROACH
B - BOTTOM
℄ - BASELINE
B.F. - BACK FACE
BM - BENCHMARK
BOT. OR BTM. - BOTTOM
℄ - CENTERLINE
C/C - CENTER TO CENTER
C.I.P. - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEAR
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONC. - CONCRETE
CONST. - CONSTRUCTION
DIA. - DIAMETER
DIM. - DIMENSION
DWG. - DRAWING
E.F. - EACH FACE
EL. OR ELEV. - ELEVATION
EQ. - EQUAL
EST. - ESTIMATED
EX. - EXISTING
F/F - FACE TO FACE
F.F. - FRONT FACE
FT. - FOOT OR FEET
FTG. - FOOTING
FWD. - FORWARD
IN. - INCH
JT. - JOINT
LT. - LEFT
MAX. - MAXIMUM
MIN. - MINIMUM
MISC. - MISCELLANEOUS
MSE - MECHANICALLY STABILIZED EARTH
N - NORTH
NB - NORTHBOUND
NO. - NUMBER
N.P.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE
OHWM - ORDINARY HIGH WATER MARK
O/O - OUT TO OUT
P.C.P.P. - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER
PROP. - PROPOSED
PSF - POUNDS PER SQUARE FOOT
S - SOUTH
SB - SOUTHBOUND
SER. - SERIES
SHLDR - SHOULDER
SPA. - SPACE OR SPACES
STA. - STATION
STD. - STANDARD
STR - STRAIGHT
T - TOP
T&B - TOP & BOTTOM
TBR - TO BE REMOVED
TEMP. - TEMPORARY
TYP. - TYPICAL
U.N.O. - UNLESS NOTED OTHERWISE
VAR. - VARIES
VERT. - VERTICAL

Preliminary Plans - Not For Reference Only

GENERAL NOTES
RETAINING WALL 4

DESIGN AGENCY
TRC

DESIGNER
JCP

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 2 | TOTAL 10

SHEET P.928 | TOTAL P.1269

CUY-77-11.41 - PART 1

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ESTIMATED QUANTITIES (WALL 4)

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
203	20000	260	CY	EMBANKMENT	
503	21100	672	CY	UNCLASSIFIED EXCAVATION	
509	10000	20105	LB	EPOXY COATED STEEL REINFORCEMENT	
511	46012	82	CY	CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING	
511	46512	120	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING	
512	10101	187	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	2
512	33000	11	SY	TYPE 2 WATERPROOFING	
516	13600	797	SF	1" PREFORMED EXPANSION JOINT FILLER	
518	20000	117	SY	PREFABRICATED GEOCOMPOSITE DRAIN	
518	21200	32	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
518	40000	210	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
518	40010	76	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
601	21050	2	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
611	99710	1	EACH	PRECAST REINFORCED CONCRETE OUTLET	

Preliminary Plans - For Reference Only

ESTIMATED QUANTITIES
RETAINING WALL 4

DESIGN AGENCY
TRC

DESIGNER
JCP

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 3 | TOTAL 10

SHEET P.929 | TOTAL P.1269

CUY-77-11.41 - PART 1

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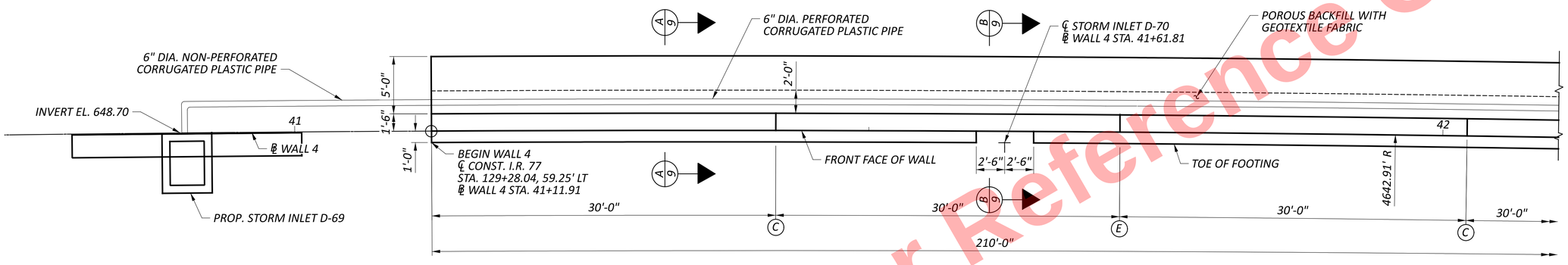
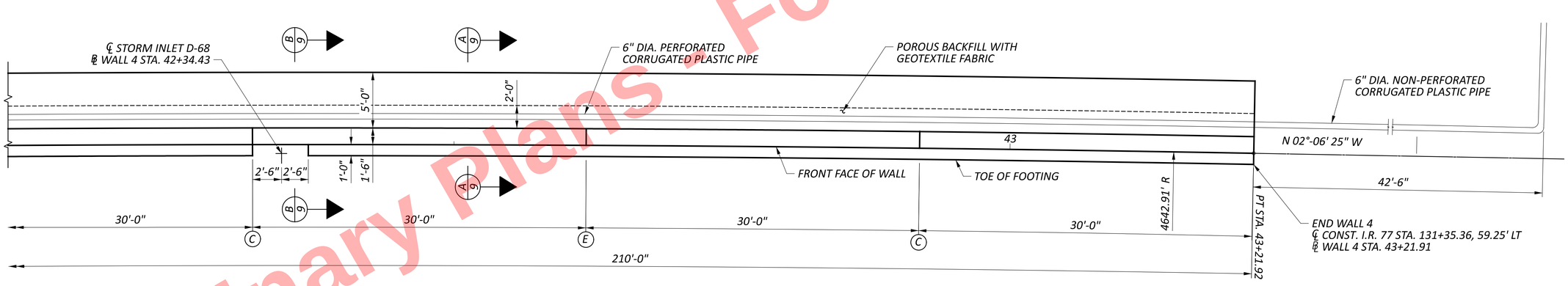
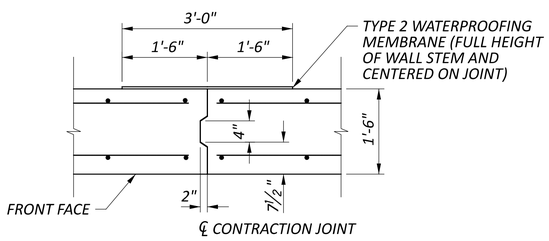
Preliminary Plans - For Reference Only



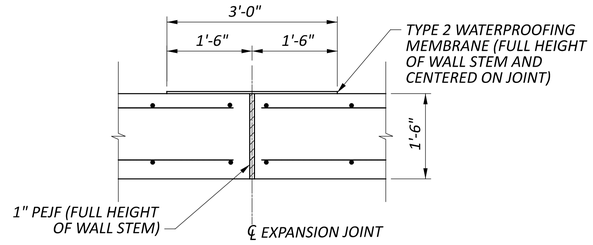


GENERAL PLAN

(DIMENSIONS ARE MEASURED RADIALLY OR ALONG FRONT FACE OF WALL)



CONTRACTION JOINT DETAIL



EXPANSION JOINT DETAIL

LEGEND:

(C) - CONTRACTION JOINT

(E) - EXPANSION JOINT

NOTES:

1. FOR WALL ELEVATIONS SEE SHEETS 5/10 THRU 8/10.
2. FOR SECTION A-A AND SECTION B-B, SEE SHEET 9/10.

FOUNDATION LAYOUT
RETAINING WALL 4

DESIGN AGENCY: TRC

DESIGNER: JCP
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 4 TOTAL: 10
SHEET: P.930 TOTAL: P.1269

CUY-77-11.41 - PART 1

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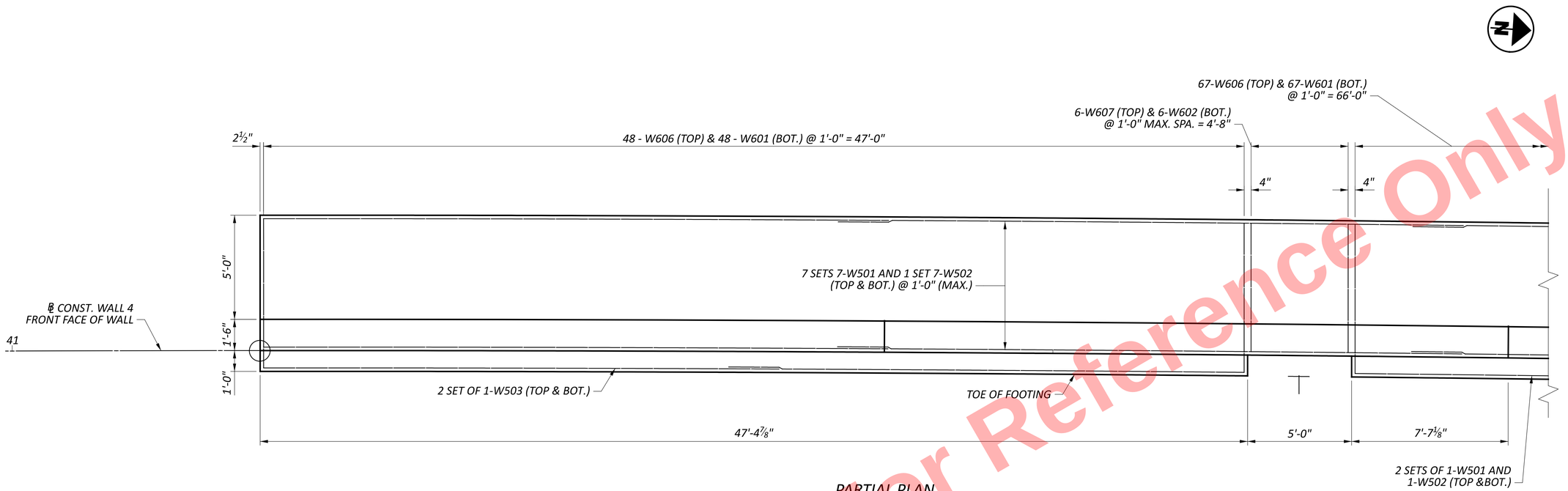
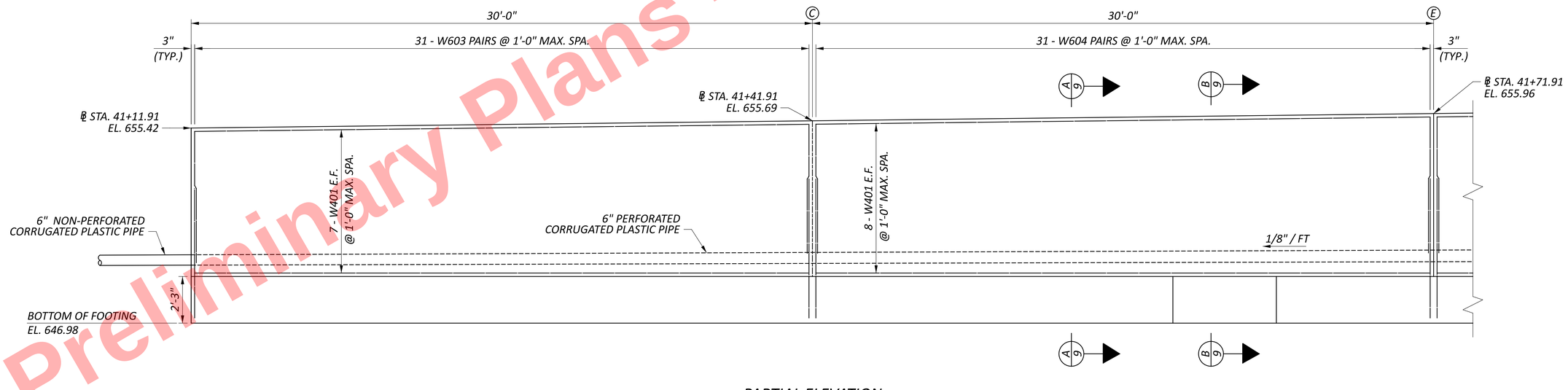
Preliminary Plans - For Reference Only



PARTIAL PLAN



PARTIAL ELEVATION

MINIMUM LAP LENGTHS	
NO. 5 BAR	3'-1"
NO. 6 BAR	3'-7"

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF THE WALL.
2. FOR FOUNDATION LAYOUT, SEE SHEET 4/10.
3. FOR SECTION A-A AND SECTION B-B SEE SHEET 9/10.
4. FOR REINFORCING STEEL LIST, SEE SHEET 10/10.

WALL ELEVATION AND REINFORCEMENT
RETAINING WALL 4

CUY-77-11.41 - PART 1

MODEL: Sheet 5 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:41:26 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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DESIGN AGENCY: TRC

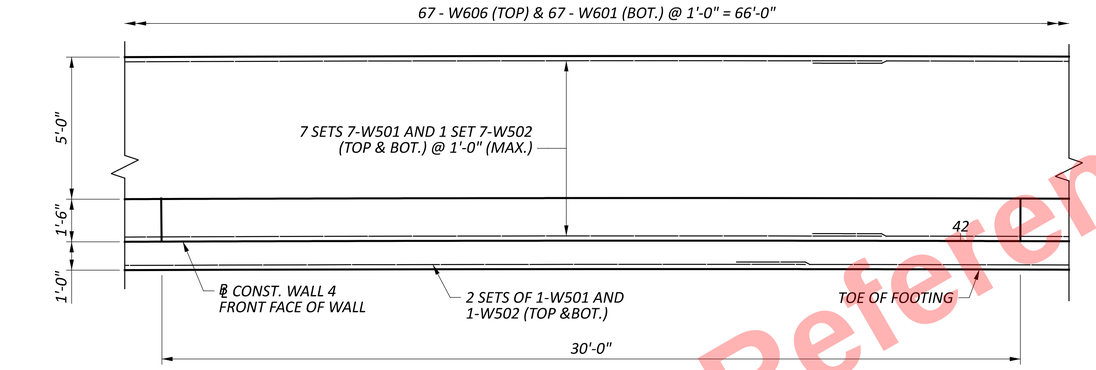
DESIGNER: JCP

REVIEWER: CJW 11/17/25

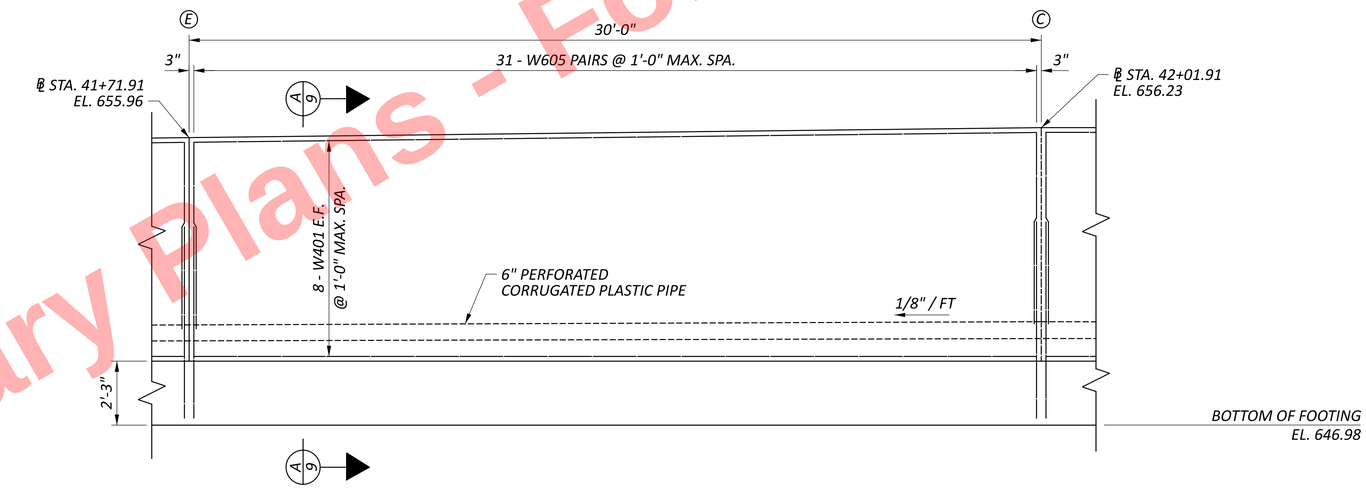
PROJECT ID: 105743

SUBSET: 5 TOTAL: 10

SHEET: P.931 TOTAL: P.1269



PARTIAL PLAN



PARTIAL ELEVATION

MINIMUM LAP LENGTHS	
NO. 5 BAR	3'-1"
NO. 6 BAR	3'-7"

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF THE WALL.
2. FOR FOUNDATION LAYOUT, SEE SHEET 4/10.
3. FOR SECTION A-A SEE SHEET 9/10.
4. FOR REINFORCING STEEL LIST, SEE SHEET 10/10.

Preliminary Plans - For Reference Only

WALL ELEVATION AND REINFORCEMENT
RETAINING WALL 4

DESIGN AGENCY: TRC

DESIGNER: JCP

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 6 | TOTAL: 10

SHEET: P.932 | TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet 6 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:41:27 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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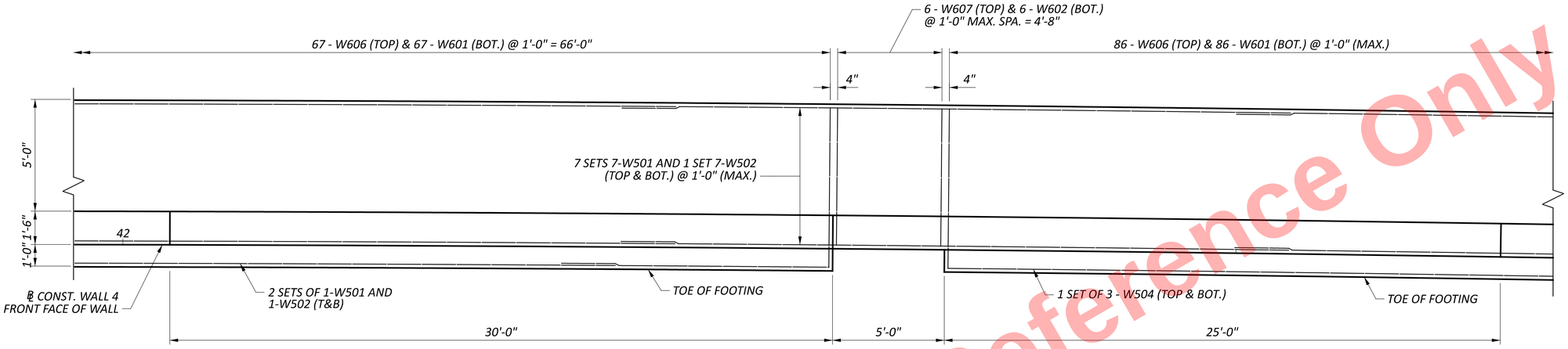
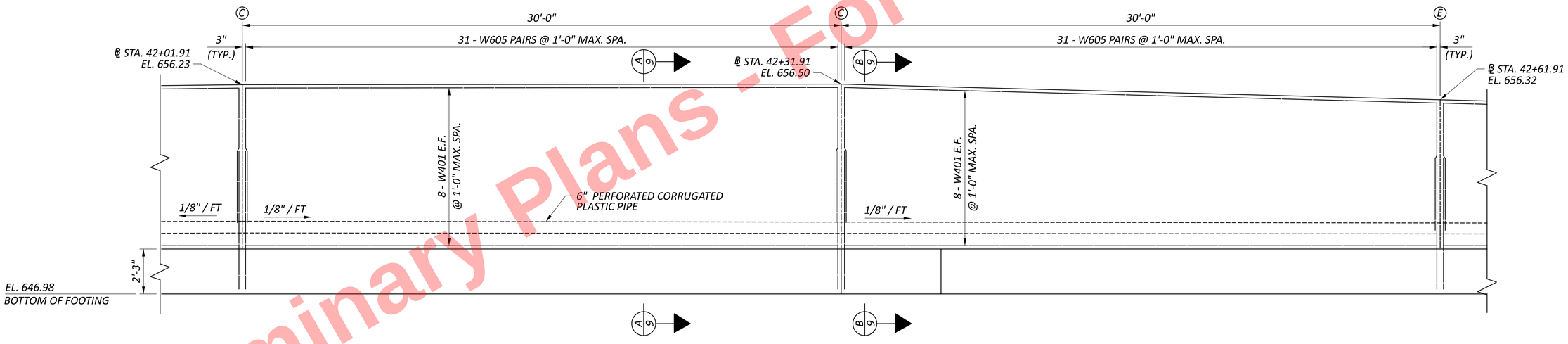
Preliminary Plans - For Reference Only



PARTIAL PLAN



PARTIAL ELEVATION

MINIMUM LAP LENGTHS	
NO. 5 BAR	3'-1"
NO. 6 BAR	3'-7"

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF THE WALL.
2. FOR FOUNDATION LAYOUT, SEE SHEET 4/10.
3. FOR SECTION A-A AND SECTION B-B SEE SHEET 9/10.
4. FOR REINFORCING STEEL LIST, SEE SHEET 10/10.

WALL ELEVATION AND REINFORCEMENT RETAINING WALL 4

DESIGN AGENCY: TRC

DESIGNER: JCP

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 7 | TOTAL: 10

SHEET: P.933 | TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet 7 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:41:27 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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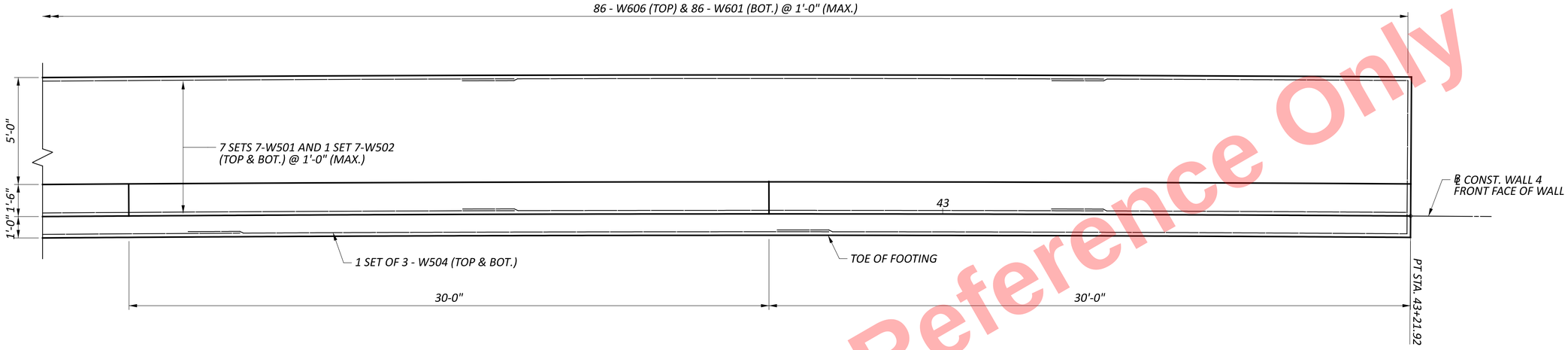
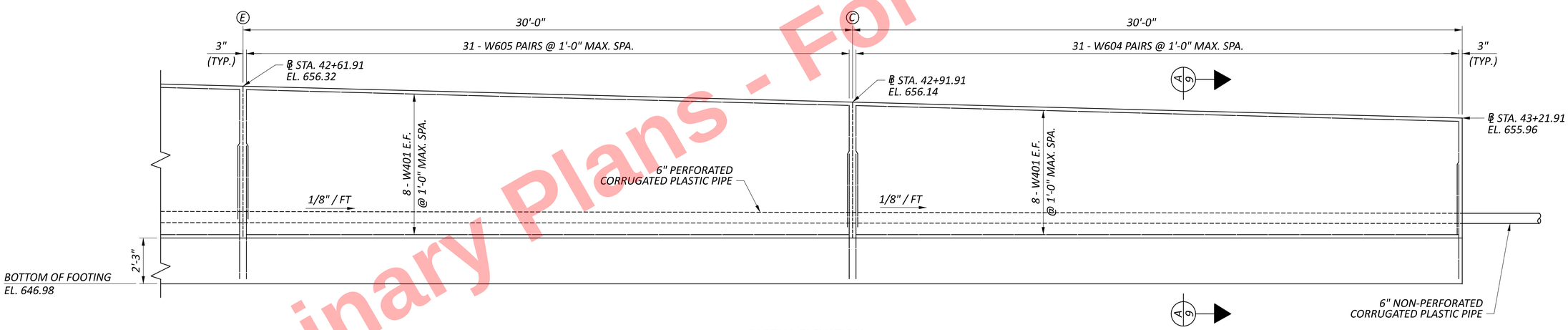


PARTIAL PLAN



PARTIAL ELEVATION

MINIMUM LAP LENGTHS	
NO. 5 BAR	3'-1"
NO. 6 BAR	3'-7"

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF THE WALL.
2. FOR FOUNDATION LAYOUT, SEE SHEET 4/10.
3. FOR SECTION A-A SEE SHEET 9/10.
4. FOR REINFORCING STEEL LIST, SEE SHEET 10/10.

Preliminary Plans - For Reference Only

WALL ELEVATION AND REINFORCEMENT
RETAINING WALL 4

DESIGN AGENCY
TRC

DESIGNER JCP
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 8 | TOTAL 10
SHEET P.934 | TOTAL P.1269

CUY-77-11.41 - PART 1

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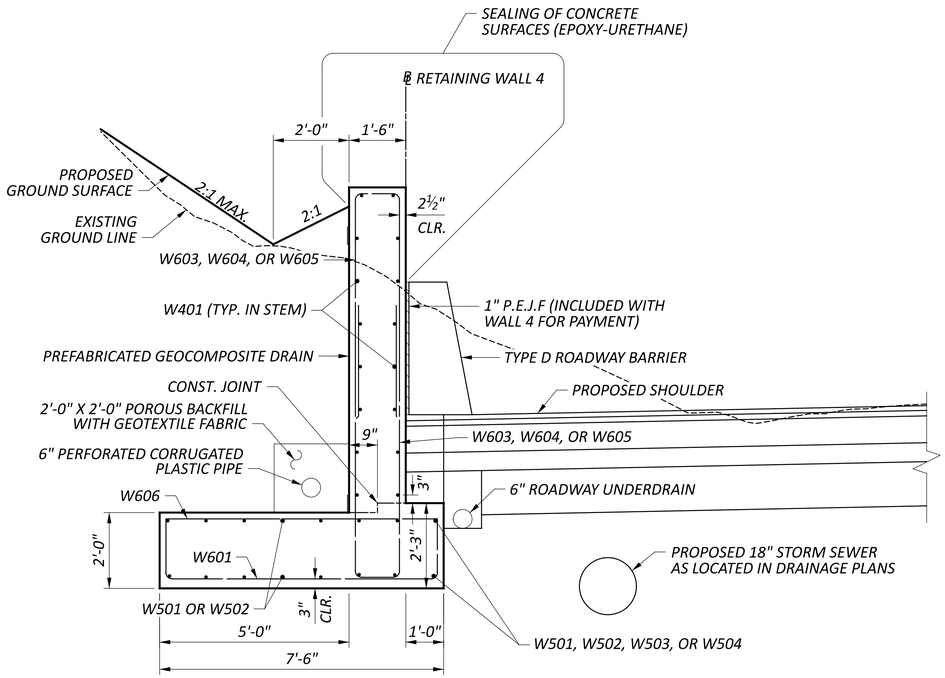
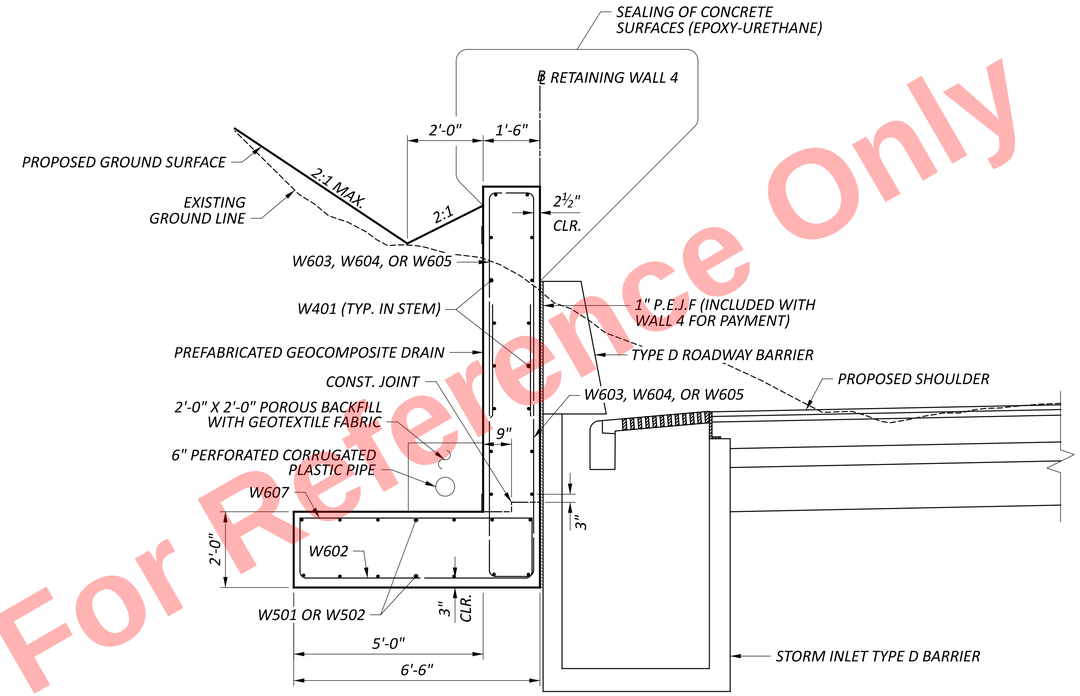


SECTION A-A



SECTION B-B

NOTES:

1. FOR FOUNDATION LAYOUT, SEE SHEET 4/10.
2. FOR WALL ELEVATIONS, SEE SHEETS 5/10 THRU 8/10.
3. FOR REINFORCING STEEL LIST, SEE SHEET 10/10.
4. SEE DRAINAGE PLANS FOR STORM INLET DETAILS.
5. PREFABRICATED GEOCOMPOSITE DRAIN SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BEHIND THE WALL STEM.

Preliminary Plans - For Reference Only

WALL DETAILS
RETAINING WALL 4

DESIGN AGENCY
TRC

DESIGNER
JCP

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 9 | TOTAL 10

SHEET P.935 | TOTAL P.1269

CUY-77-11.41 - PART 1

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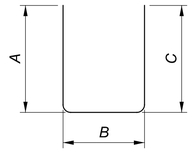
MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
W401	110	29'-8"	2180	STR							
W501	102	30'-0"	3192	STR							
W502	16	21'-7"	360	STR							
W503	4	25'-1"	105	STR							
W504	6	30'-4"	190	STR							
W601	201	10'-0"	3019	2	1'-7"	7'-2"	1'-7"				
W602	12	9'-0"	162	2	1'-7"	6'-2"	1'-7"				
W603	62	12'-9"	1187	2	6'-0"	1'-1"	6'-0"				
W604	124	13'-1"	2437	2	6'-2"	1'-1"	6'-2"				
W605	248	13'-5"	4998	2	6'-4"	1'-1"	6'-4"				
W606	201	7'-2"	2164	STR							
W607	12	6'-2"	111	STR							
		TOTAL	20,105								



TYPE-2

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.
2. ALL REINFORCING STEEL TO BE EPOXY COATED.

Preliminary Plans - For Reference Only

REINFORCING STEEL LIST
RETAINING WALL 4

DESIGN AGENCY TRC
DESIGNER JCP
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 10 | TOTAL 10
SHEET P.936 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet 10 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:41:42 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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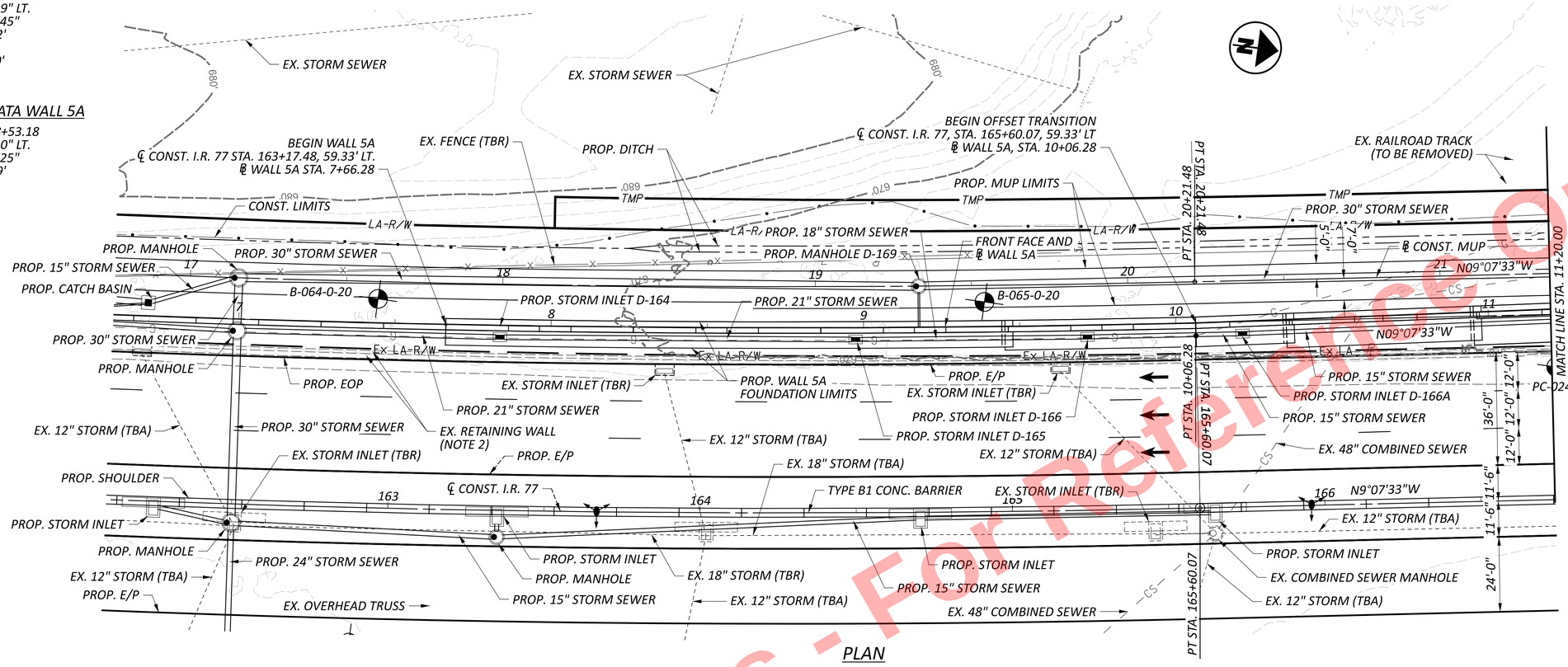
CURVE DATA I.R.-77

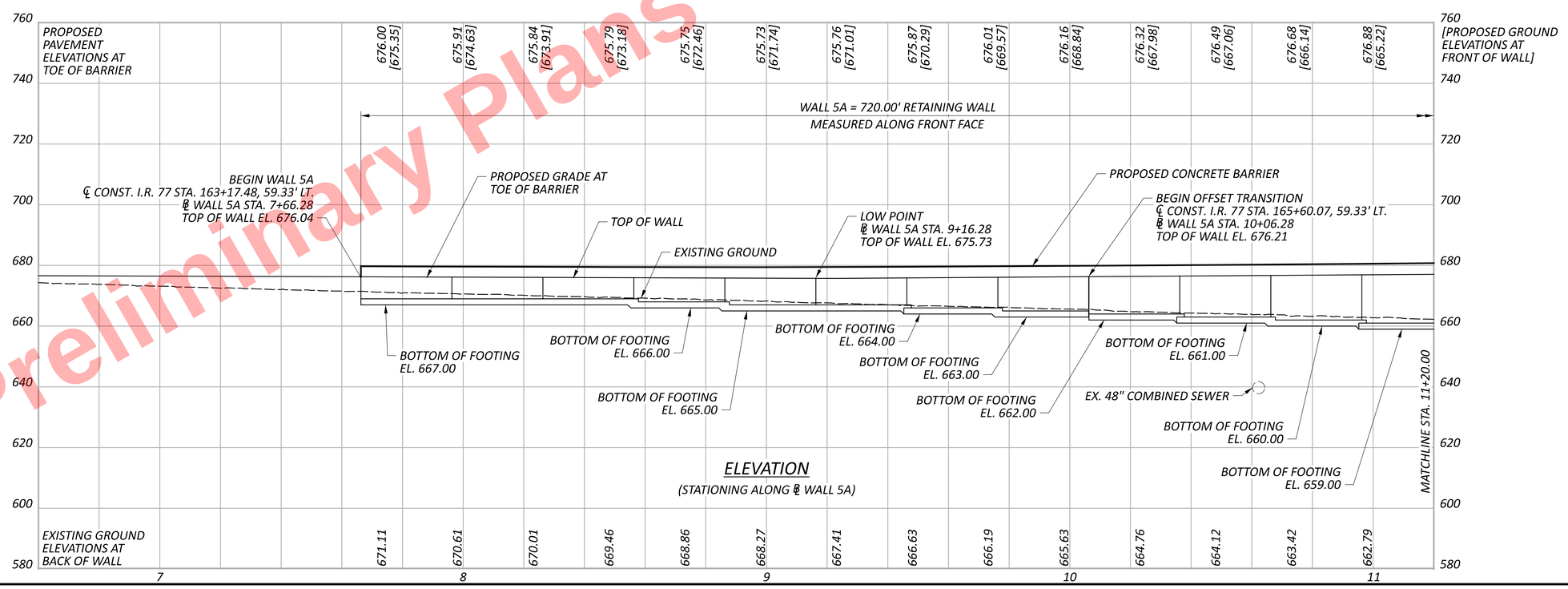
P.I. = STA. 159+82.97
Δ = 11°55'19" LT.
Dc = 01°01'45"
R = 5567.12'
T = 581.30'
L = 1158.40'
E = 30.27'

CURVE DATA WALL 5A

P.I. = STA. 8+53.18
Δ = 03°11'10" LT.
Dc = 01°02'25"
R = 5507.79'
T = 153.18'
L = 306.28'
E = 2.13'



PLAN



ELEVATION
(STATIONING ALONG ℄ WALL 5A)

LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION

NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. FOR REMOVAL LIMITS OF EXISTING WALL, SEE SHEETS 5/23 AND 6/23.
3. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A AND 1B.

Preliminary Plans - For Reference Only

SITE PLAN 1 OF 2
RETAINING WALL 5A

DESIGN AGENCY
TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	1
TOTAL	23
SHEET	P.937
TOTAL	P.1269

CUY-77-11.41 - PART 1

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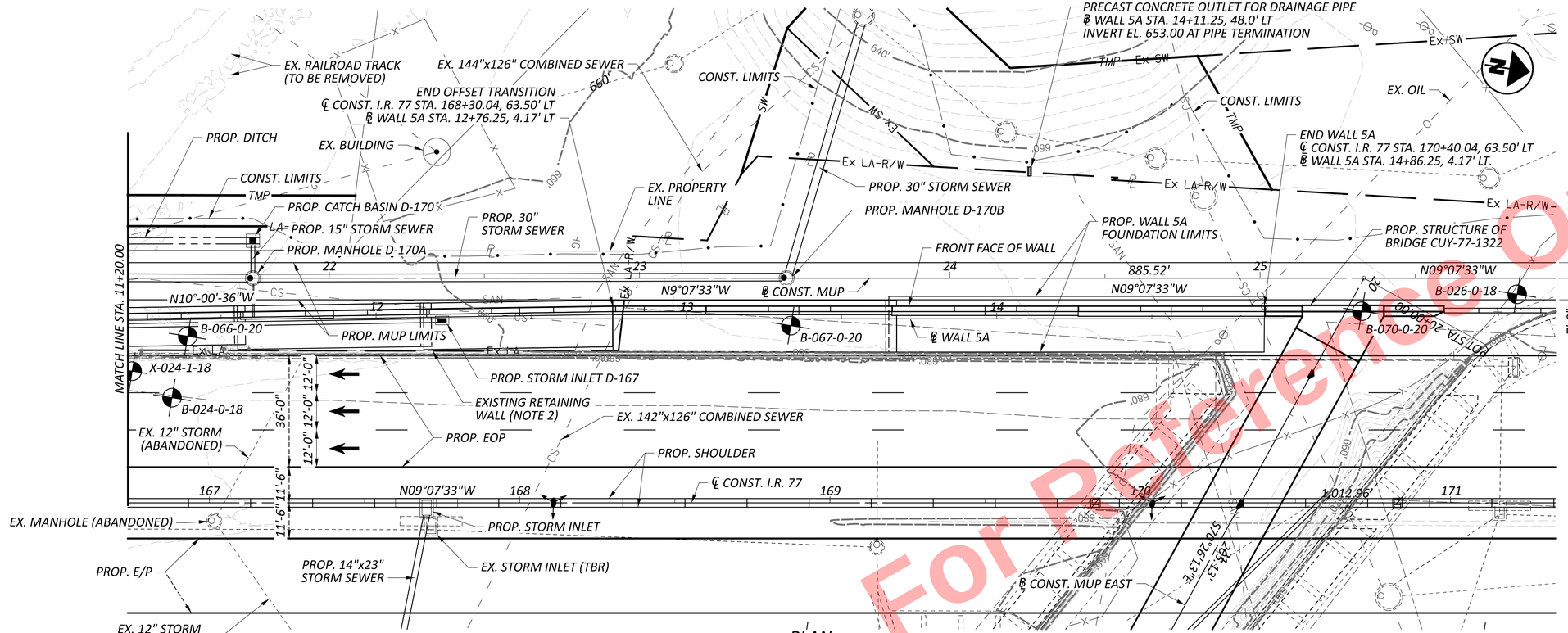

LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION

NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. FOR REMOVAL LIMITS OF EXISTING WALL, SEE SHEETS 5/23 AND 6/23.
3. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A AND 1B.

Preliminary Plans - For Reference Only

SITE PLAN 2 OF 2
RETAINING WALL 5A

CUY-77-11.41 - PART 1

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DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 2 | TOTAL: 23
SHEET: P.938 | TOTAL: P.1269

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD DRAWING:

DM-1.1	REVISED 7/17/20
SBR-1-20	REVISED 7/19/24
VPF-1-24	REVISED 1/17/25

OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 10TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN PARAMETERS

LIVE LOAD SURCHARGE = 250 PSF (2' DEPTH OF SOIL OVERBURDEN)

DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (CONCRETE STEM AND FOOTING)

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI (CONCRETE BARRIER ON WALL STEM)

EPOXY COATED REINFORCING STEEL - MIN. YIELD STRENGTH 60 KSI

FOUNDATION BEARING RESISTANCE

THE RETAINING WALL FOOTING BETWEEN STA. 7+66.28 AND STA. 8+56.28, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LOAD PRESSURE OF 1.49 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 2.02 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 4.50 KIPS PER SQUARE FOOT.

THE RETAINING WALL FOOTING BETWEEN STA. 8+56.28 AND STA. 10+96.27, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LOAD PRESSURE OF 2.54 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 3.51 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 4.80 KIPS PER SQUARE FOOT.

THE RETAINING WALL FOOTING BETWEEN STA. 10+96.27 AND STA. 12+76.25, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LOAD PRESSURE OF 3.56 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 4.93 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 5.50 KIPS PER SQUARE FOOT.

THE RETAINING WALL FOOTING BETWEEN STA. 12+76.25 AND STA. 14+86.25, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LOAD PRESSURE OF 3.78 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 5.21 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 8.80 KIPS PER SQUARE FOOT.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

ITEM 511 - CLASS QC2 CONCRETE, MISC.: WITH QC/QA, BARRIER ON WALL STEM

VERTICAL SAWCUTS SHALL BE PERFORMED IN THE CONCRETE BARRIER AT ALL CONTRACTION JOINTS IN THE WALL STEM. SAWCUTS SHALL CONFORM TO THE DETAILS AND SPECIFICATIONS FOR CONCRETE RAILING DEFLECTION JOINTS IN STANDARD DRAWING SBR-1-20. LABOR, EQUIPMENT AND MATERIALS NEEDED TO COMPLETE THIS WORK WILL BE CONSIDERED INCIDENTAL TO PLACEMENT OF THE BARRIER CONCRETE.

DRAINAGE PIPE OUTLETS:

VERTICAL PRECAST CONCRETE OUTLET WITH TYPE 1 TIED CONCRETE BLOCK MAT SHALL BE INSTALLED AT EACH LOCATION OF DRAIN PIPE TERMINATION SPECIFIED IN THE PLANS. THE OUTLET INSTALLATION AND MATERIALS FURNISHED SHALL CONFORM TO STANDARD CONSTRUCTION DRAWING DM-1.1 AND THE REQUIREMENTS OF CMS 611.

ITEM 607 - VANDAL PROTECTION FENCE, 6" STRAIGHT, COATED FABRIC, AS PER PLAN

THIS ITEM SHALL BE AS PER THE DETAILS IN THE PLAN, THE APPLICABLE PORTIONS OF STANDARD DRAWING VPF-1-24, AND THE MANUFACTURER'S RECOMMENDATIONS.

THE ANCHORS ON THE TOP OF THE PROPOSED CONCRETE BRIDGE RAILING SHALL BE CAST IN PLACE WITH A 6" OR 7" MINIMUM EMBEDMENT LENGTH, AS SHOWN ON THE STANDARD DRAWING FOR THE SPECIFIED BASE PLATE TYPE.

AT LOCATIONS WHERE THE FENCE SPANS ACROSS AN EXPANSION JOINT IN THE BRIDGE RAILING AT AN INTEGRAL OR SEMI-INTEGRAL ABUTMENT, DO NOT INSTALL LINE RAILS AND EXPANSION JOINT SLEEVES; HOWEVER, THE FABRIC SHALL REMAIN CONTINUOUS ACROSS THE EXPANSION JOINT.

THE COLOR OF THE FENCE FABRIC, RAILS, POSTS, PLATES, TIE WIRES, AND ADDITIONAL VISUAL HARDWARE AND CAULK SHALL BE BLACK.

PAYMENT FOR THE ABOVE SHALL BE AT THE UNIT PRICE BID PER FOOT FOR ITEM 607 - VANDAL PROTECTION FENCE 6' STRAIGHT, COATED FABRIC, AS PER PLAN WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

C|L - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

Preliminary Plans - For Reference Only

GENERAL NOTES
RETAINING WALL 5A

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 3 | TOTAL 23

SHEET P.939 | TOTAL P.1269

CUY-77-11.41 - PART 1

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ESTIMATED QUANTITIES (WALL 5A)

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	5, 6
203	35120	5040	CY	GRANULAR MATERIAL, TYPE C	
503	21100	1986	CY	UNCLASSIFIED EXCAVATION	
509	10000	199479	LB	EPOXY COATED STEEL REINFORCEMENT	
511	46013	905	CY	CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN	21
511	46512	770	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING	
511	53012	109	CY	CLASS QC2 CONCRETE, MISC.: WITH QC/QA, BARRIER ON WALL STEM	3
512	10101	1681	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	3
512	33000	129	SY	TYPE 2 WATERPROOFING	
516	13600	325	SF	1" PREFORMED EXPANSION JOINT FILLER	
516	13900	70	SF	2" PREFORMED EXPANSION JOINT FILLER	
518	20000	997	SY	PREFABRICATED GEOCOMPOSITE DRAIN	
518	21200	107	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
518	40000	700	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
518	40010	74	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
601	21050	2	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
607	39901	720	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC, AS PER PLAN	3
611	99710	1	EACH	PRECAST REINFORCED CONCRETE OUTLET	

Preliminary Plans - Not For Reference Only

CUY-77-11.41 - PART 1

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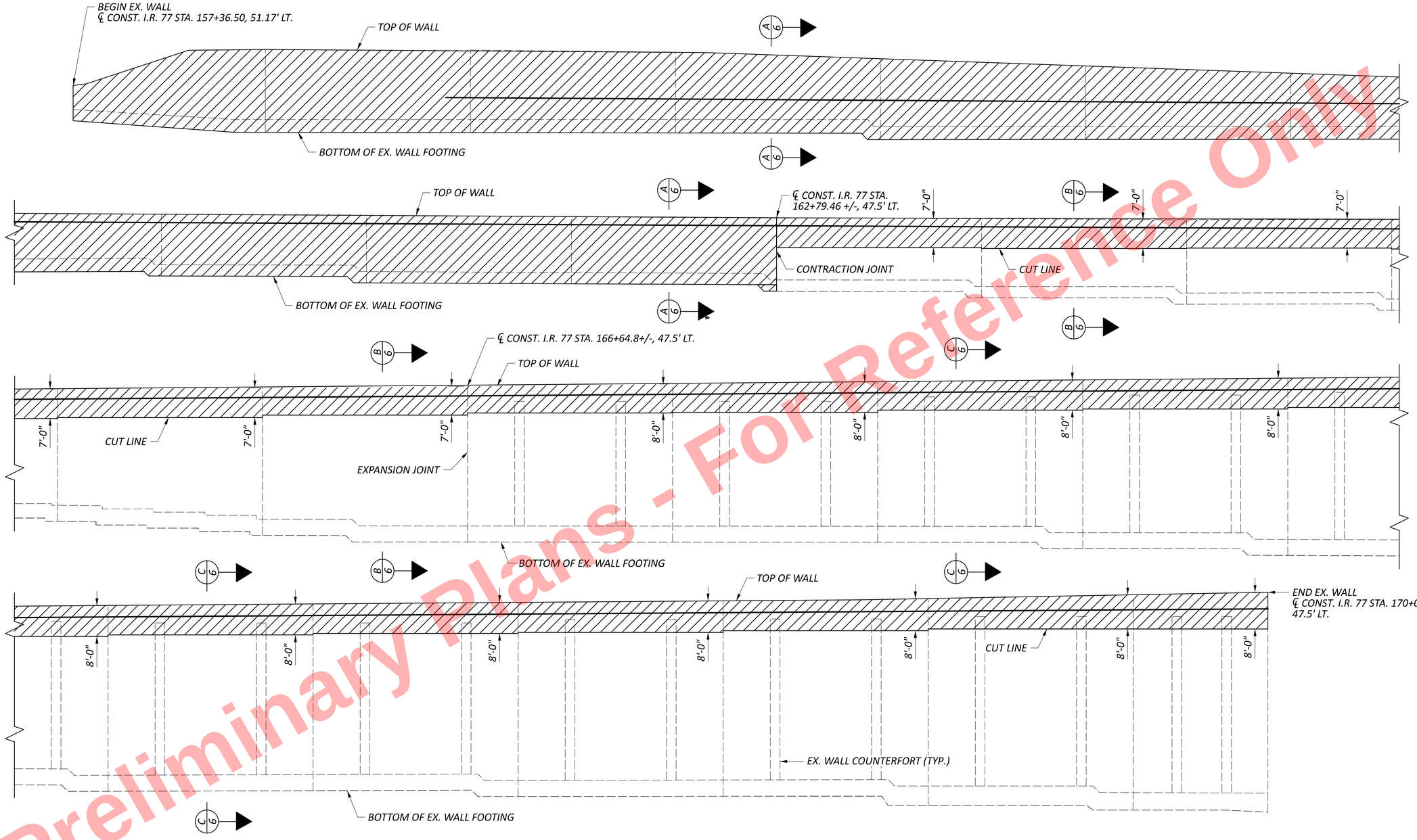
DESIGN AGENCY
TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	4
TOTAL	23
SHEET	P.940
TOTAL	P.1269



Preliminary Plans - For Reference Only

LEGEND:

PORTION OF EX. WALL TO BE REMOVED

NOTE:

1. OFFSET IS GIVEN TO FRONT FACE OF EXISTING WALL.
2. OPERATIONS TO REMOVE PORTIONS OF EXISTING RETAINING WALL SHALL BE PERFORMED IN MAINTENANCE OF TRAFFIC PHASES 1A AND 1B.

EXISTING WALL ELEVATIONS

(LOOKING AT BACK FACE OF WALL)

REMOVAL DETAILS RETAINING WALL 5A

CUY-77-11.41 - PART 1

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DESIGN AGENCY TRC

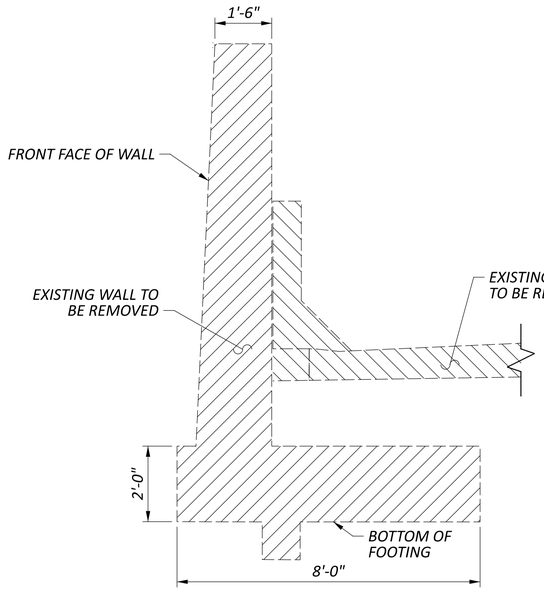
DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

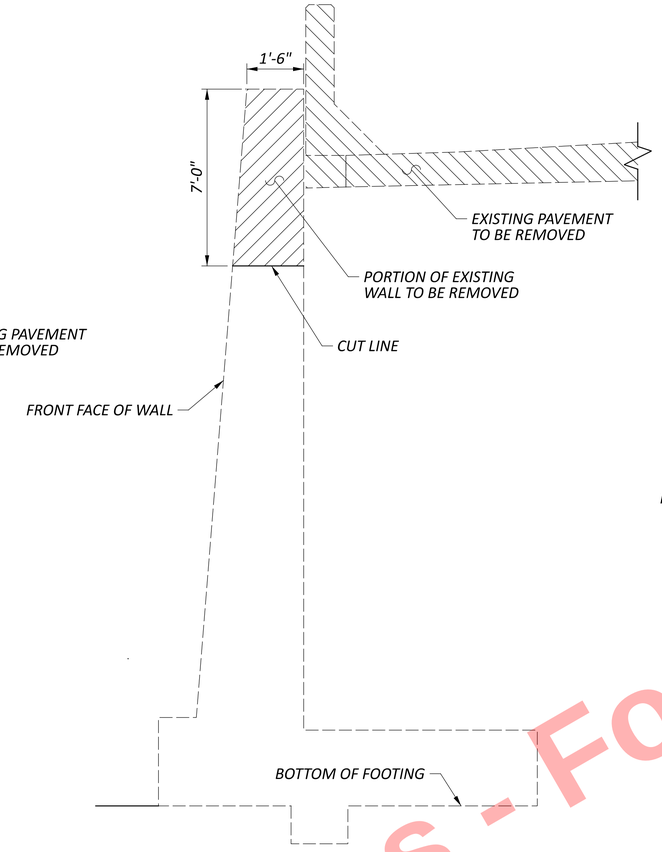
SUBSET 5 | TOTAL 23

SHEET P.941 | TOTAL P.1269



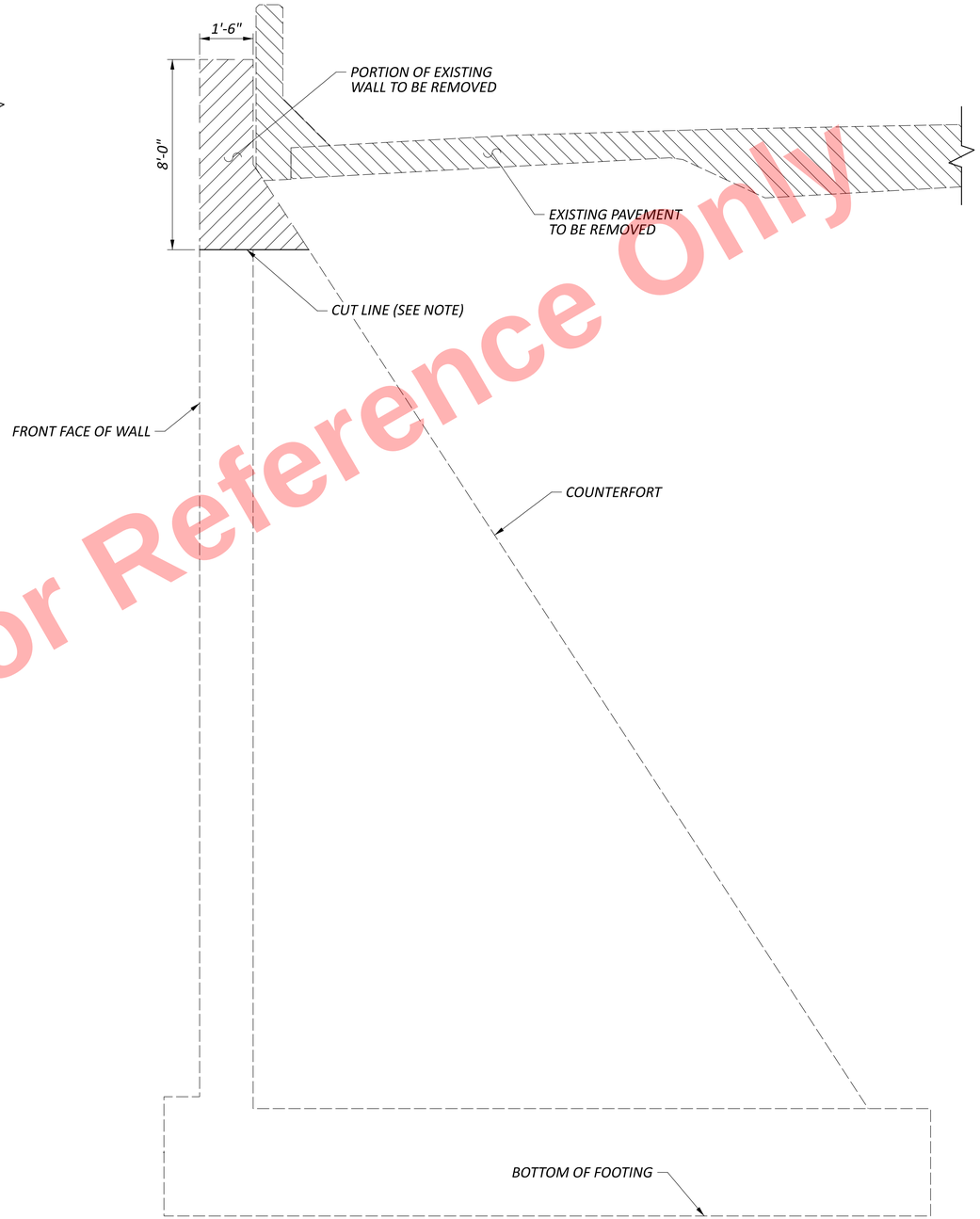
SECTION A-A

(TYPICAL FROM STA. 157+36.5 TO 162+79.46)



SECTION B-B

(TYPICAL FROM STA. 162+79.46 TO 166+64.80)



SECTION C-C

(TYPICAL FROM STA. 166+64.80 TO 170+05.80)

LEGEND:

PORTIONS OF EXISTING WALL TO BE REMOVED

PORTIONS OF EXISTING I.R. 77 ROADWAY AND BARRIER TO BE REMOVED

NOTE:

1. REMOVAL CUTS SHALL NOT BE PERFORMED ON THE EXISTING WINGWALL STEM AND COUNTERFORTS UNTIL BACKFILL HAS BEEN PLACED AND COMPACTED BETWEEN THE EXISTING RETAINING WALL AND THE PROPOSED WAL IN FRONT OF IT UP TO AN ELEVATION WITHIN 2 FEET OF THE CUT LINE.

Preliminary Plans - For Reference Only

REMOVAL DETAILS
RETAINING WALL 5A

DESIGN AGENCY TRC

DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 6 | TOTAL 23

SHEET P.942 | TOTAL P.1269

CUY-77-11.41 - PART 1

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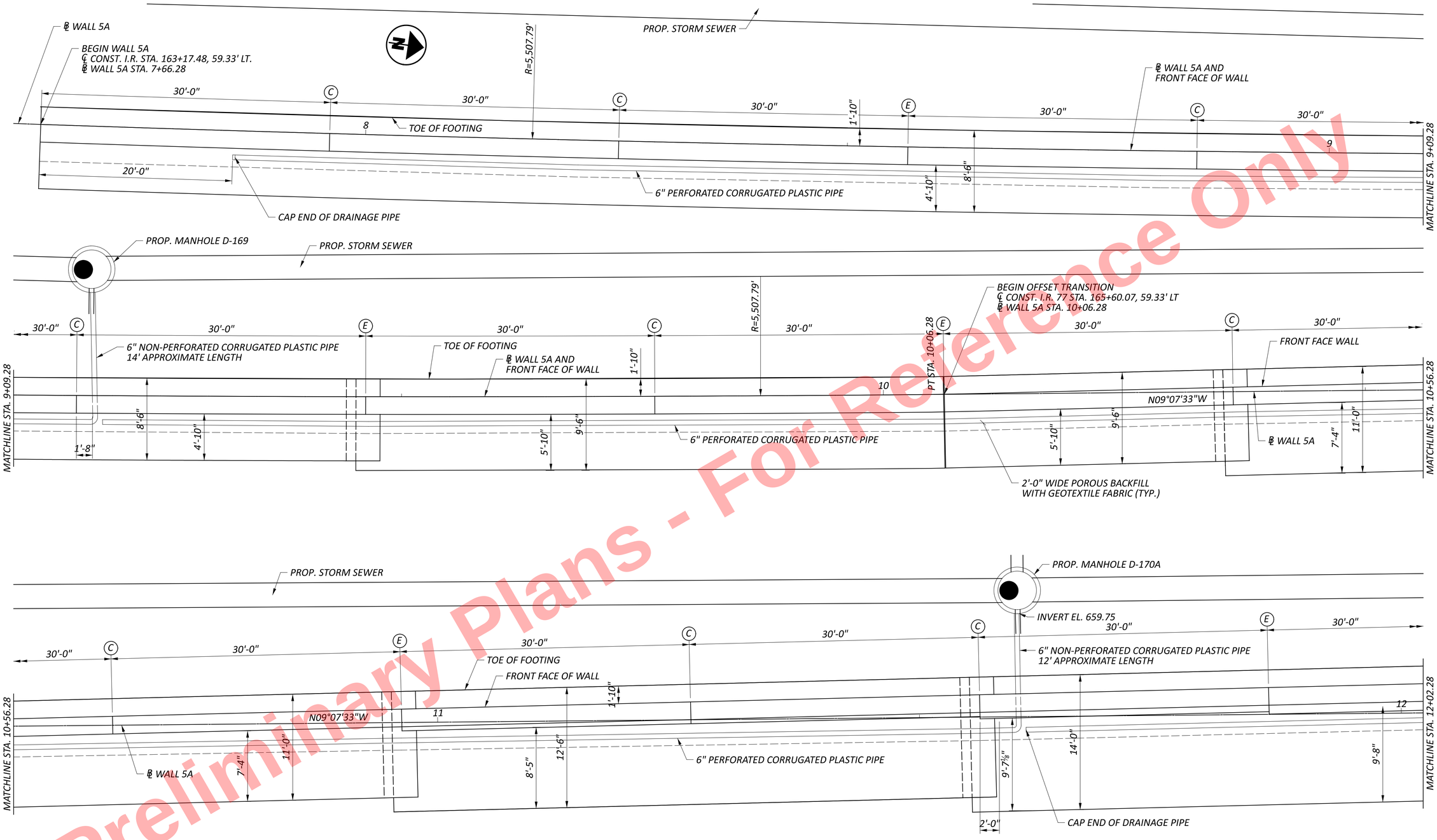

Preliminary Plans - For Reference Only

PARTIAL GENERAL PLAN

(DIMENSIONS ARE MEASURED ALONG OR PERPENDICULAR TO FRONT FACE OF WALL)

LEGEND:

(C) - CONTRACTION JOINT

(E) - EXPANSION JOINT

NOTES:

1. FOR WALL ELEVATIONS SEE SHEETS 9/23 THRU 20/23.
2. FOR TYPICAL SECTION, SEE SHEETS 22/23.

FOUNDATION LAYOUT AND DRAINAGE DETAILS
RETAINING WALL 5A

DESIGN AGENCY TRC

DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 7 | TOTAL 23

SHEET P.943 | TOTAL P.1269

CUY-77-11.41 - PART 1

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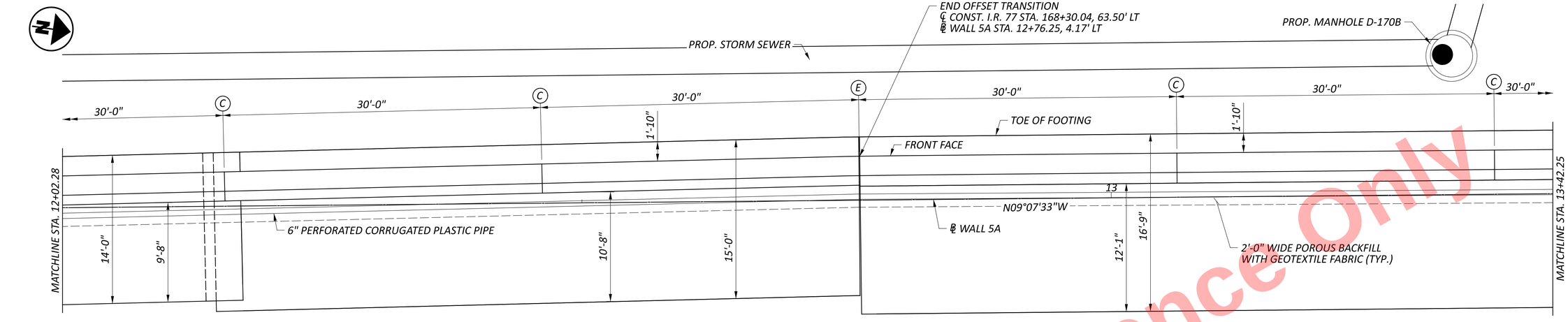
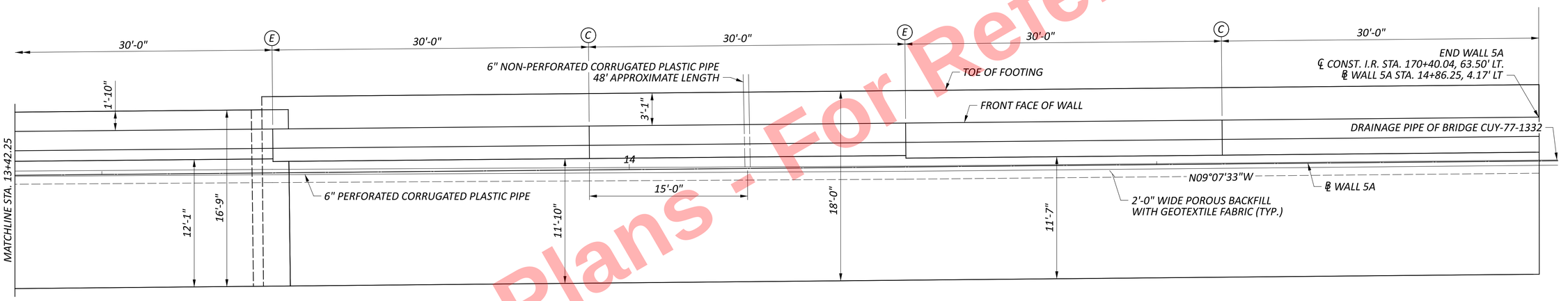
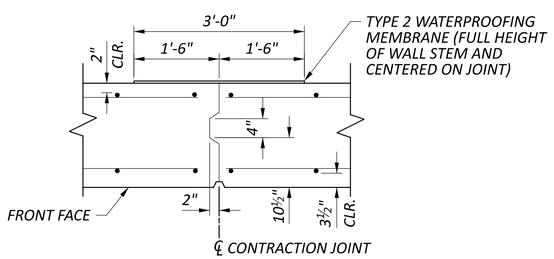
Preliminary Plans - For Reference Only



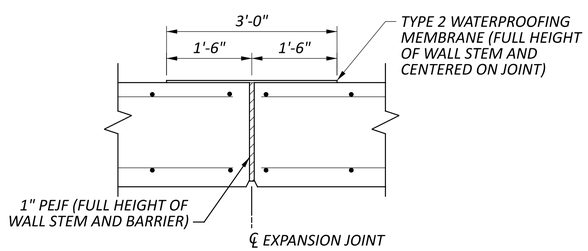


PARTIAL GENERAL PLAN

(DIMENSIONS ARE MEASURED ALONG OR PERPENDICULAR TO FRONT FACE OF WALL)



CONTRACTION JOINT DETAIL



EXPANSION JOINT DETAIL

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. FOR WALL ELEVATIONS SEE SHEETS 9/23 THRU 20/23.
2. FOR TYPICAL SECTION, SEE SHEETS 22/23.

FOUNDATION LAYOUT AND DRAINAGE DETAILS
RETAINING WALL 5A

CUY-77-11.41 - PART 1

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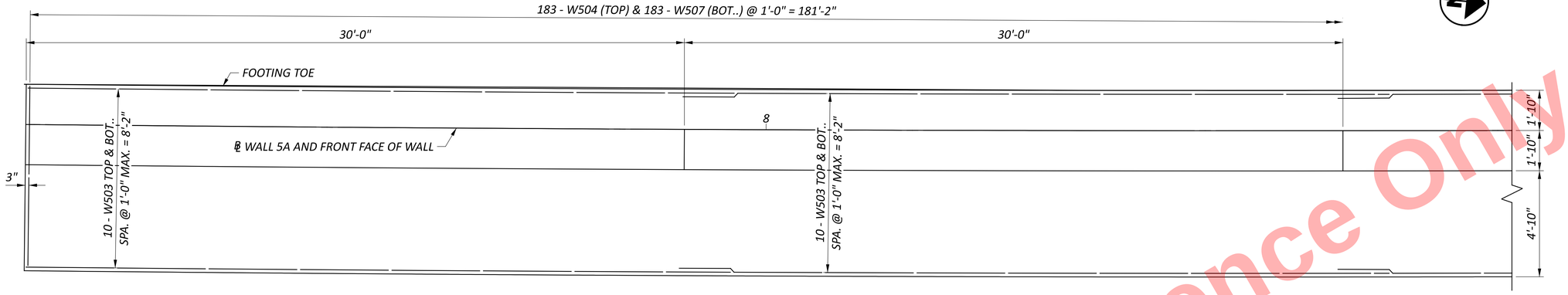
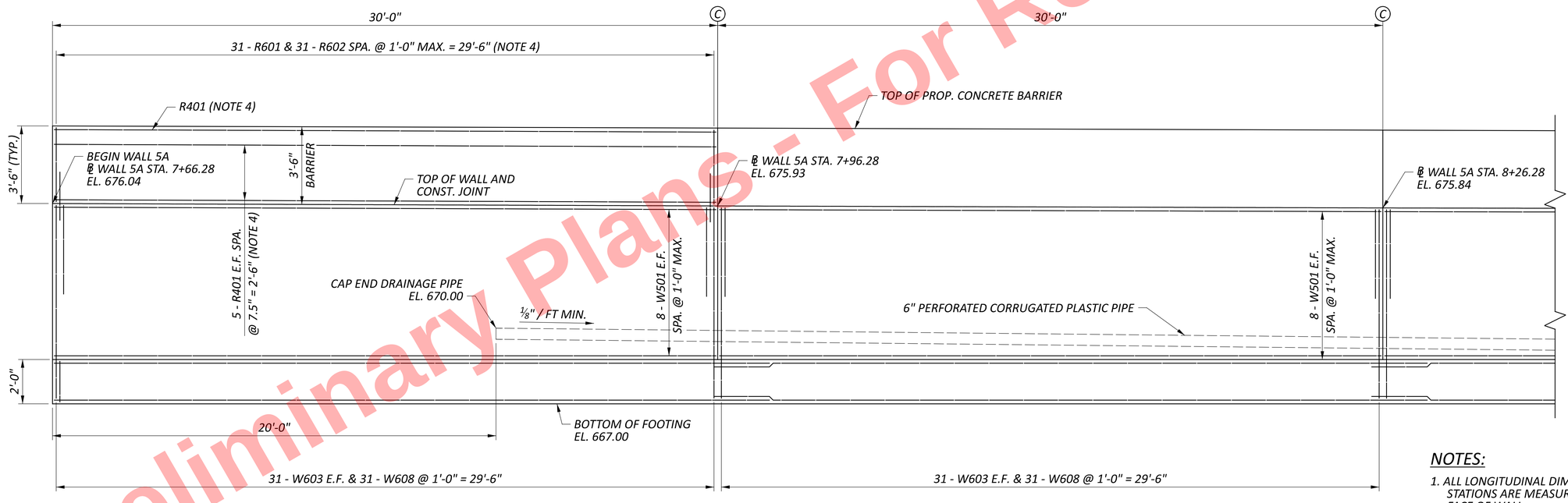
DESIGN AGENCY	TRC
DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET / TOTAL	8 / 23
SHEET / TOTAL	P.944 / P.1269



PARTIAL PLAN



PARTIAL ELEVATION
(LOOKING AT BACK FACE OF WALL)

MINIMUM LAP LENGTHS	
NO. 5 BAR	3'-1"
NO. 8 BAR	4'-9"
NO. 9 BAR	5'-10"
NO. 10 BAR	7'-2"

LEGEND:

Ⓒ - CONTRACTION JOINT
Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR TYPICAL SECTIONS, SEE SHEET 22/23.
3. FOR REINFORCING STEEL LIST, SEE SHEET 23/23.
4. REINFORCING STEEL IN THE BARRIER IS TYPICAL FOR ALL WALL UNITS.
5. FOR FOUNDATION LAYOUT, SEE SHEETS 7/23 AND 8/23.
6. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

Preliminary Plans - Not For Reference Only

WALL PLAN AND ELEVATION
RETAINING WALL 5A

DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 9 | TOTAL: 23
SHEET: P.945 | TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: up 1-3 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:44:31 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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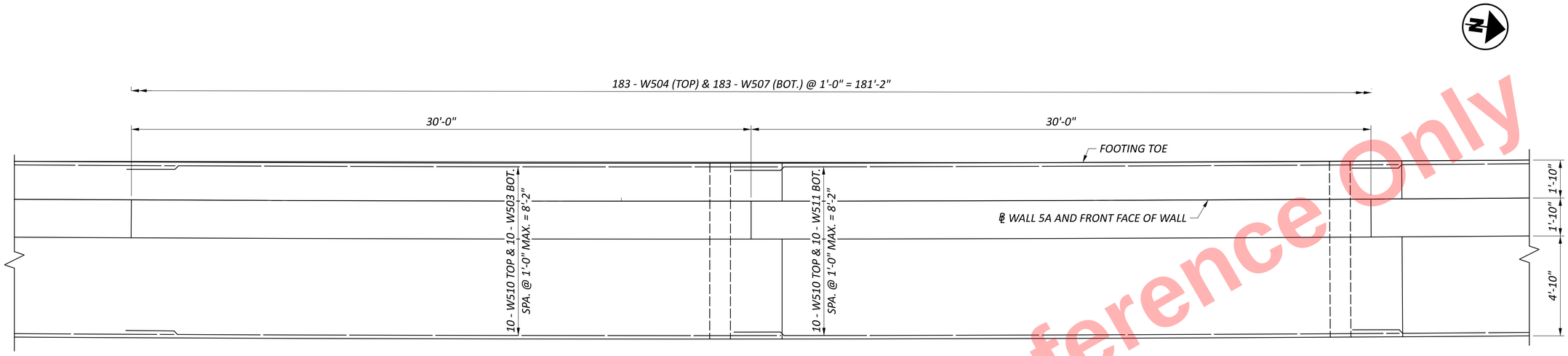
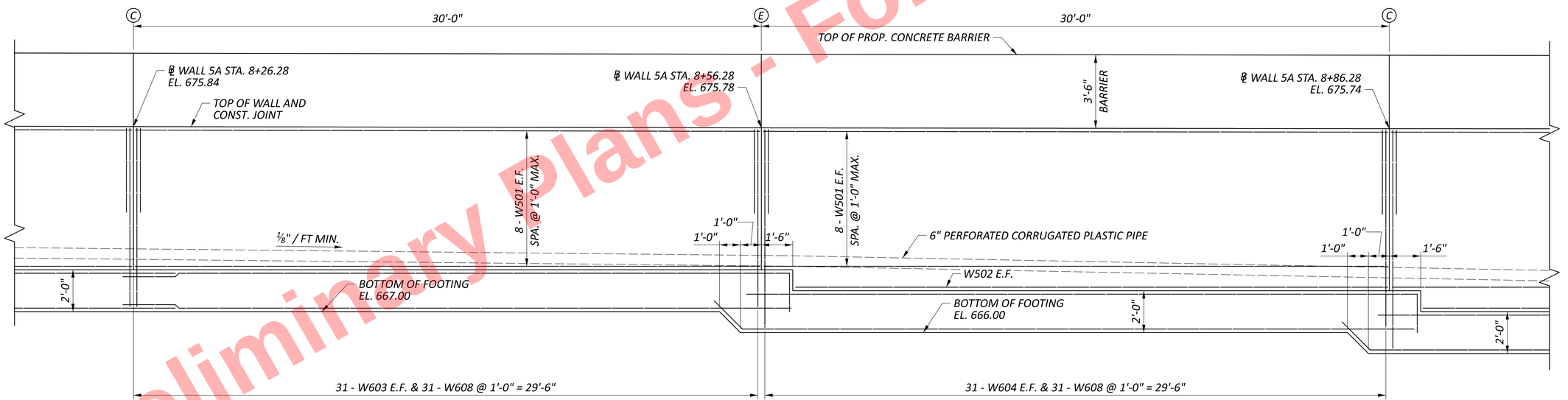


PARTIAL PLAN



PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

Preliminary Plans - For Reference Only

WALL PLAN AND ELEVATION
RETAINING WALL 5A

DESIGN AGENCY TRC

DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 10 | TOTAL 23

SHEET P.946 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: up 3-4 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:44:31 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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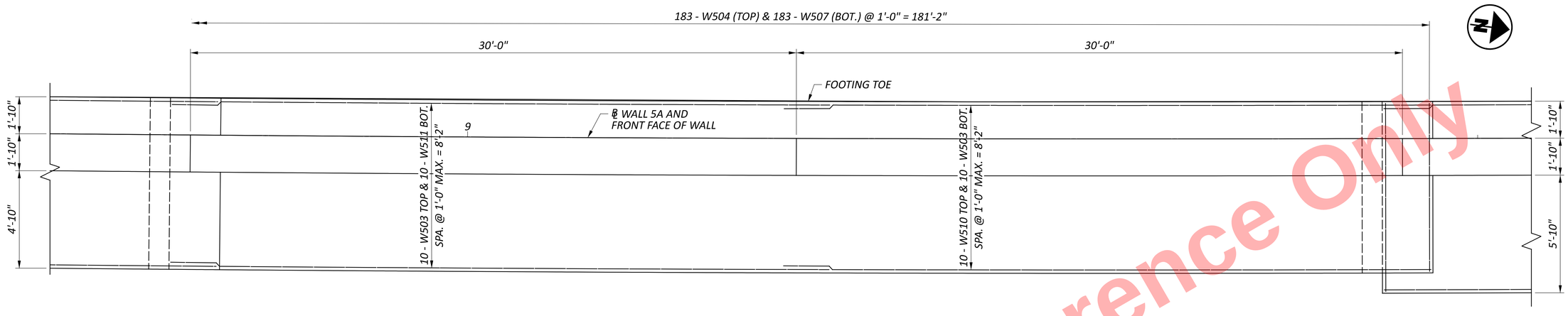
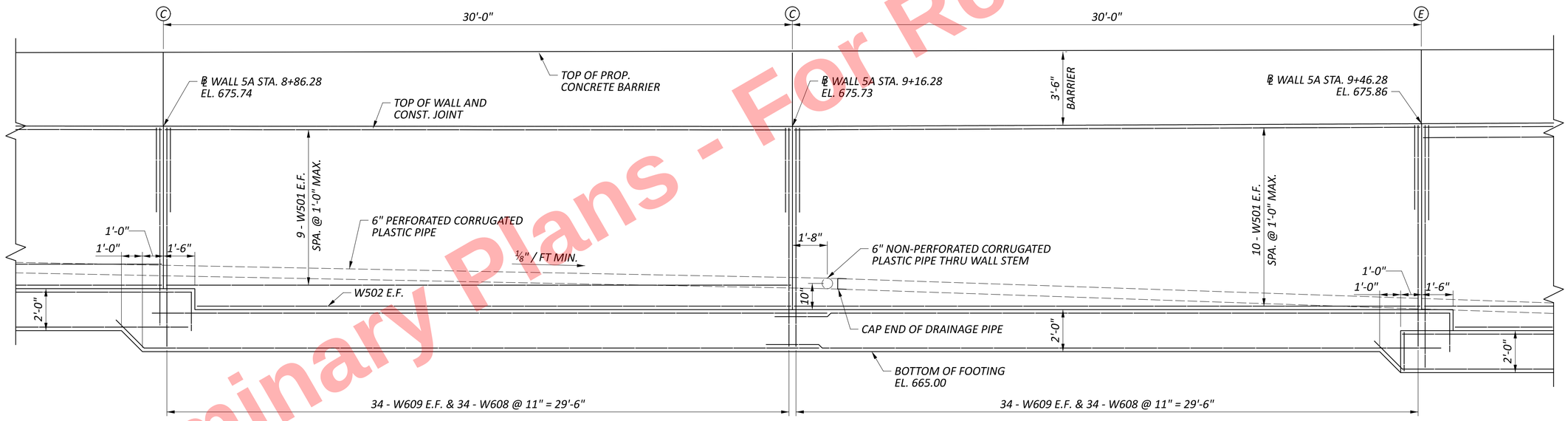


PARTIAL PLAN



PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

Preliminary Plans - For Reference Only

WALL PLAN AND ELEVATION
RETAINING WALL 5A

CUY-77-11.41 - PART 1

MODEL: panels 5-6 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:44:32 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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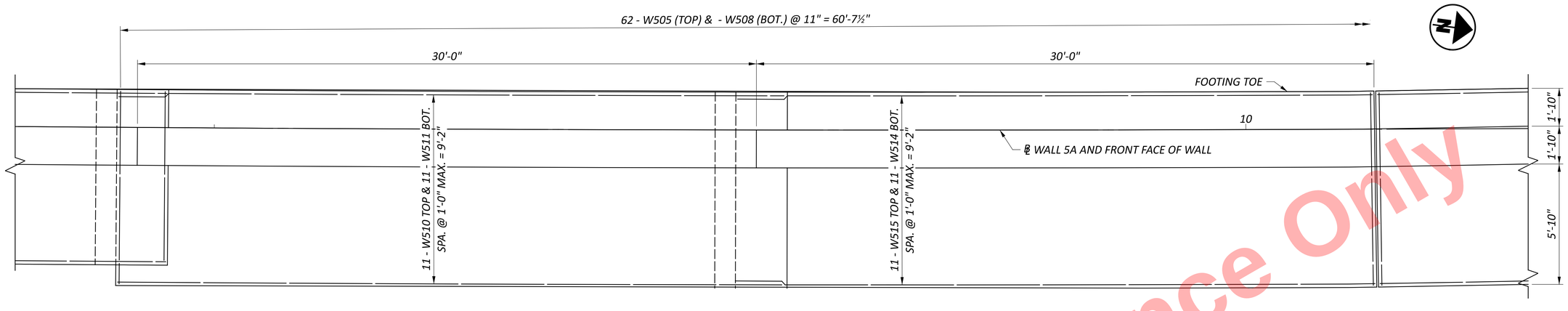
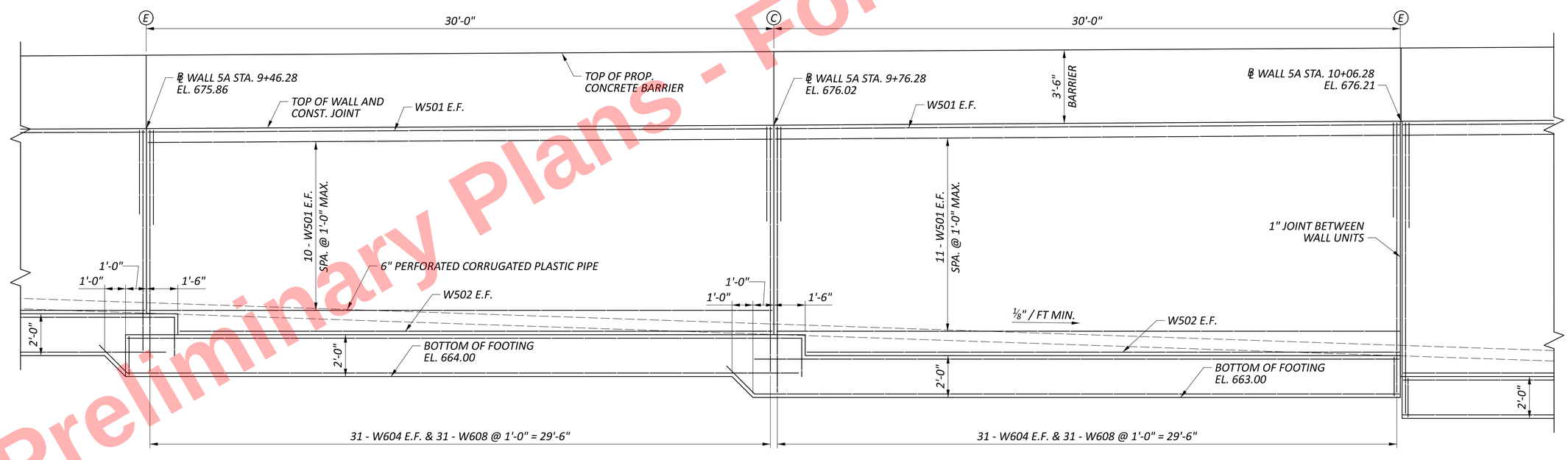
DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	11
TOTAL	23
SHEET	P.947
TOTAL	P.1269



PARTIAL PLAN



PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

Preliminary Plans - For Reference Only

WALL PLAN AND ELEVATION
RETAINING WALL 5A

DESIGN AGENCY TRC

DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 12 | TOTAL 23

SHEET P.948 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: up 7-8 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:44:33 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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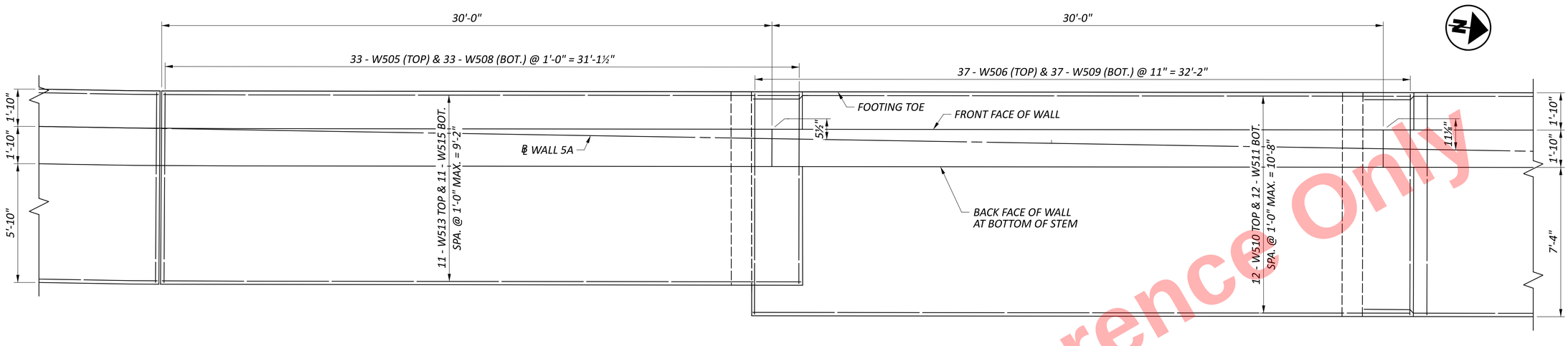
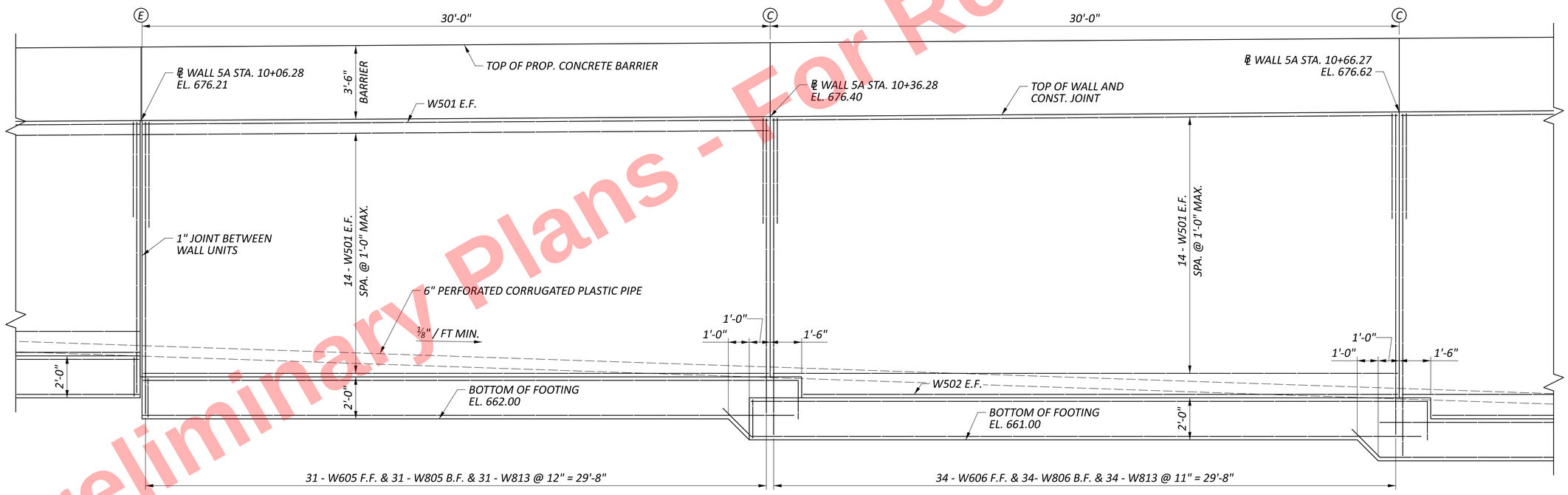


PARTIAL PLAN



PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

Preliminary Plans - For Reference Only

WALL PLAN AND ELEVATION
RETAINING WALL 5A

DESIGN AGENCY
TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET / TOTAL	13 / 23
SHEET / TOTAL	P.949 / P.1269

CUY-77-11.41 - PART 1

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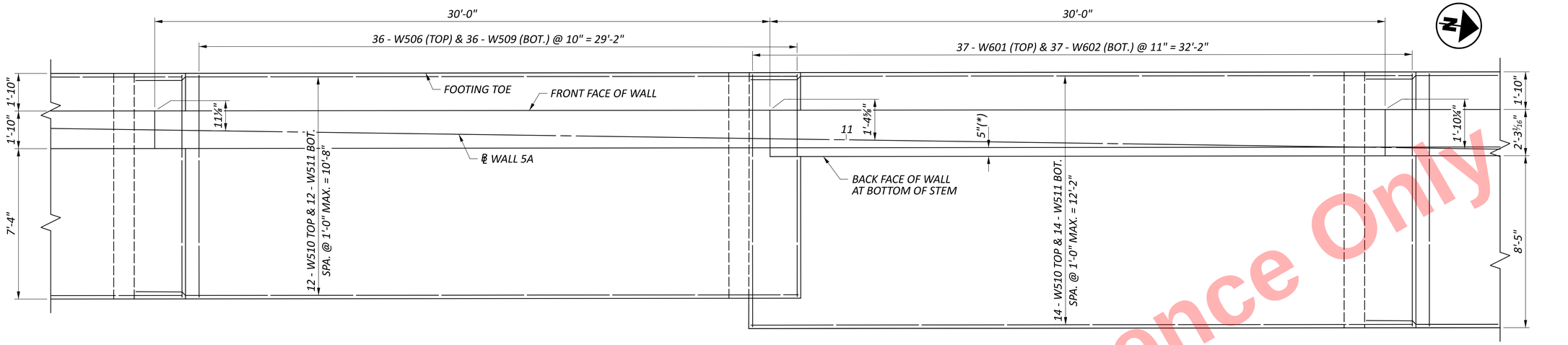
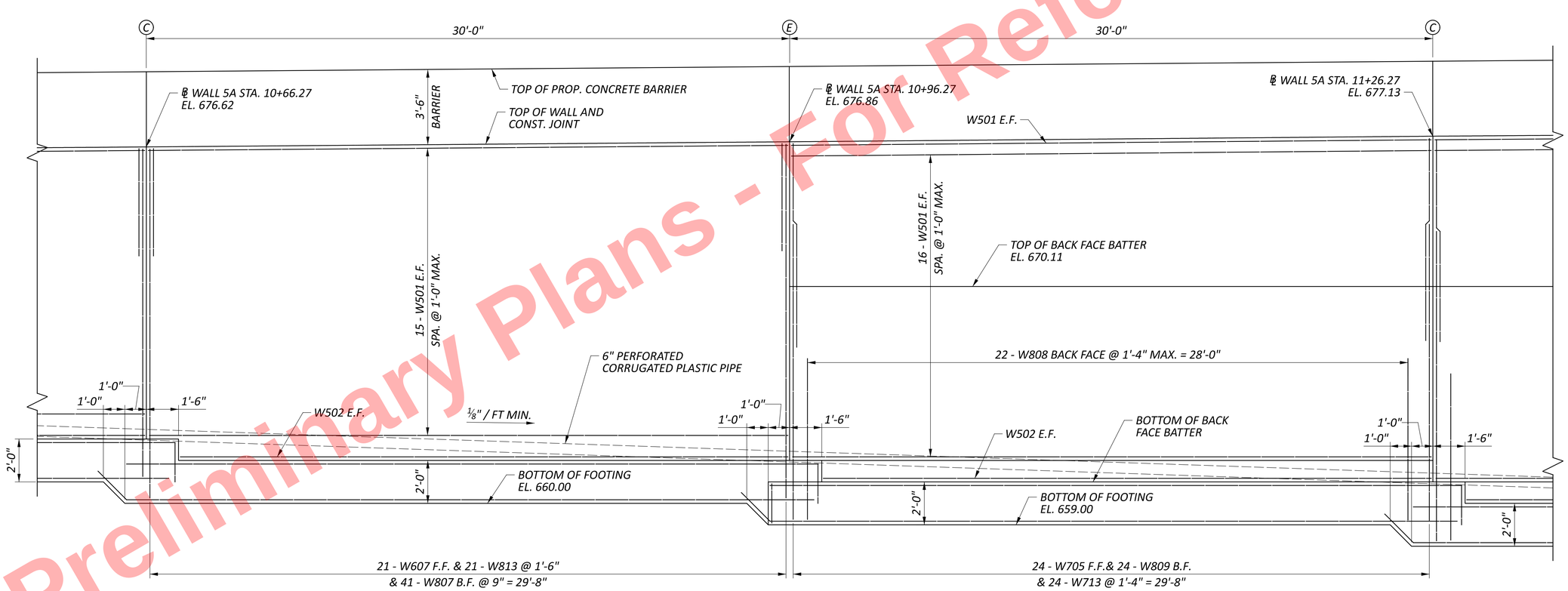


(*) - BACK FACE BATTER

PARTIAL PLAN



PARTIAL ELEVATION

(VANDAL FENCE NOT SHOWN FOR CLARITY)

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: up 11-12 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:44:34 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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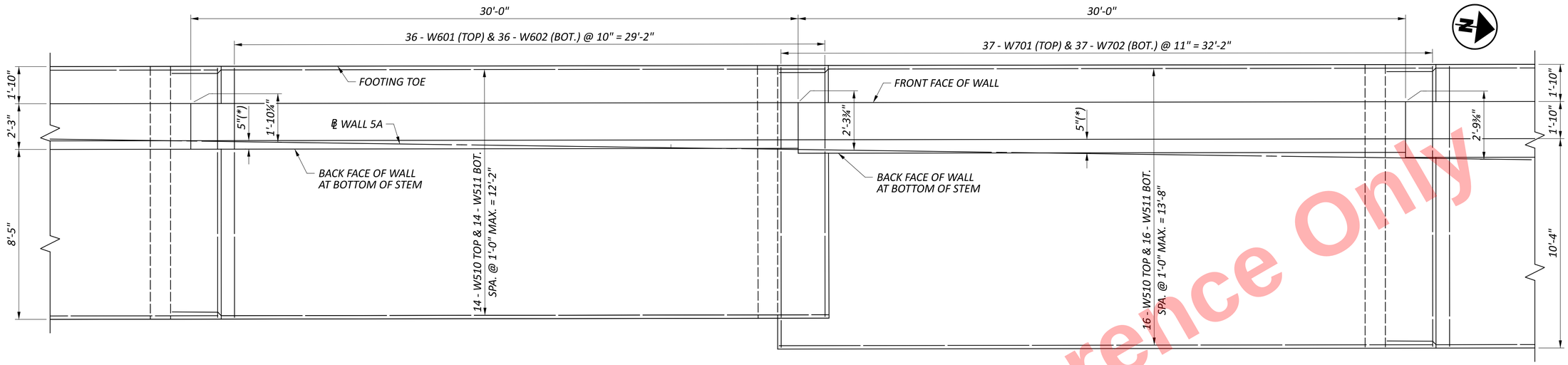
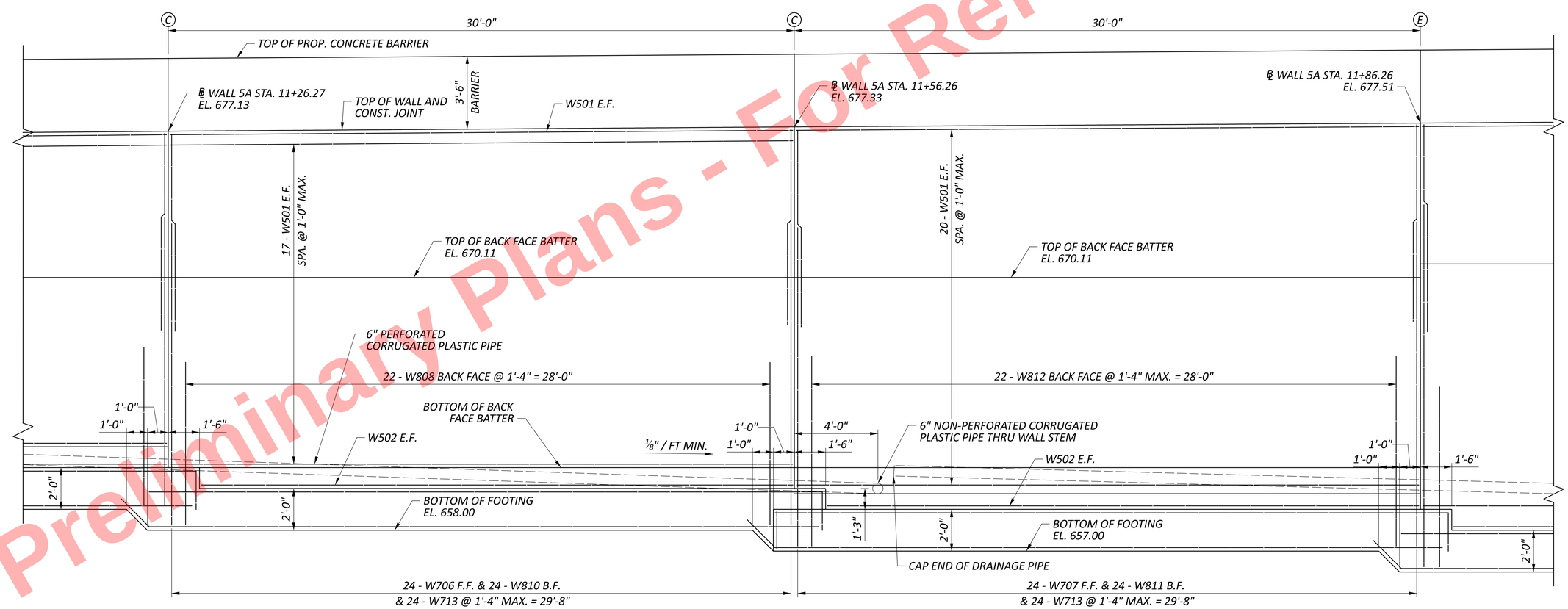
WALL PLAN AND ELEVATION
RETAINING WALL 5A

DESIGN AGENCY	TRC
DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	14
TOTAL	23
SHEET	P.950
TOTAL	P.1269



PARTIAL PLAN

(*) - BACK FACE BATTER



PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

Preliminary Plans - For Reference Only

WALL PLAN AND ELEVATION RETAINING WALL 5A

DESIGN AGENCY: TRC

DESIGNER: CEJ

REVIEWER: CJW 11/17/25

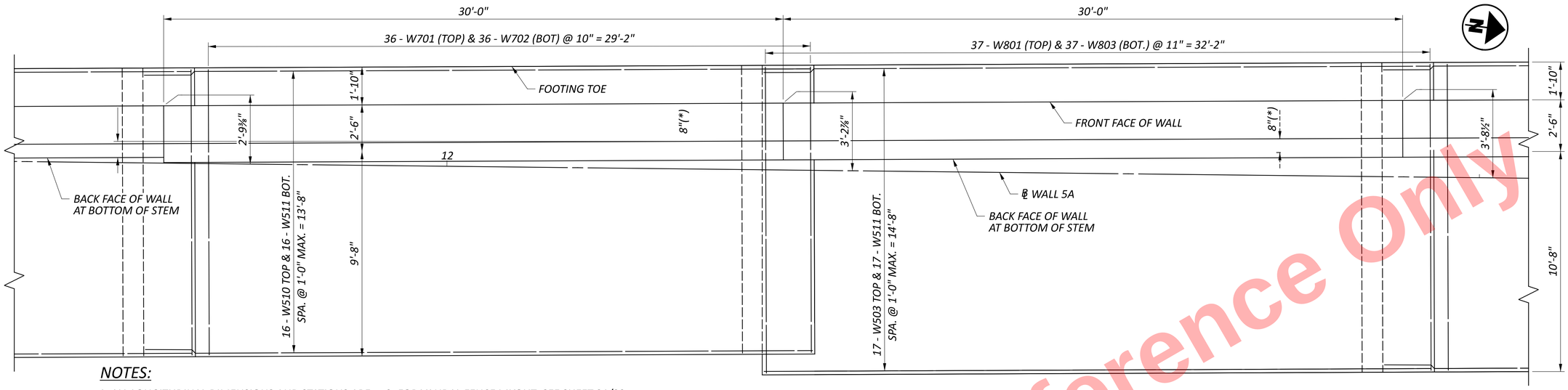
PROJECT ID: 105743

SUBSET: 15 | TOTAL: 23

SHEET: P.951 | TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: up 13-14 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:44:35 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05A\Sheets\105743_WALL05A_WE001.dgn

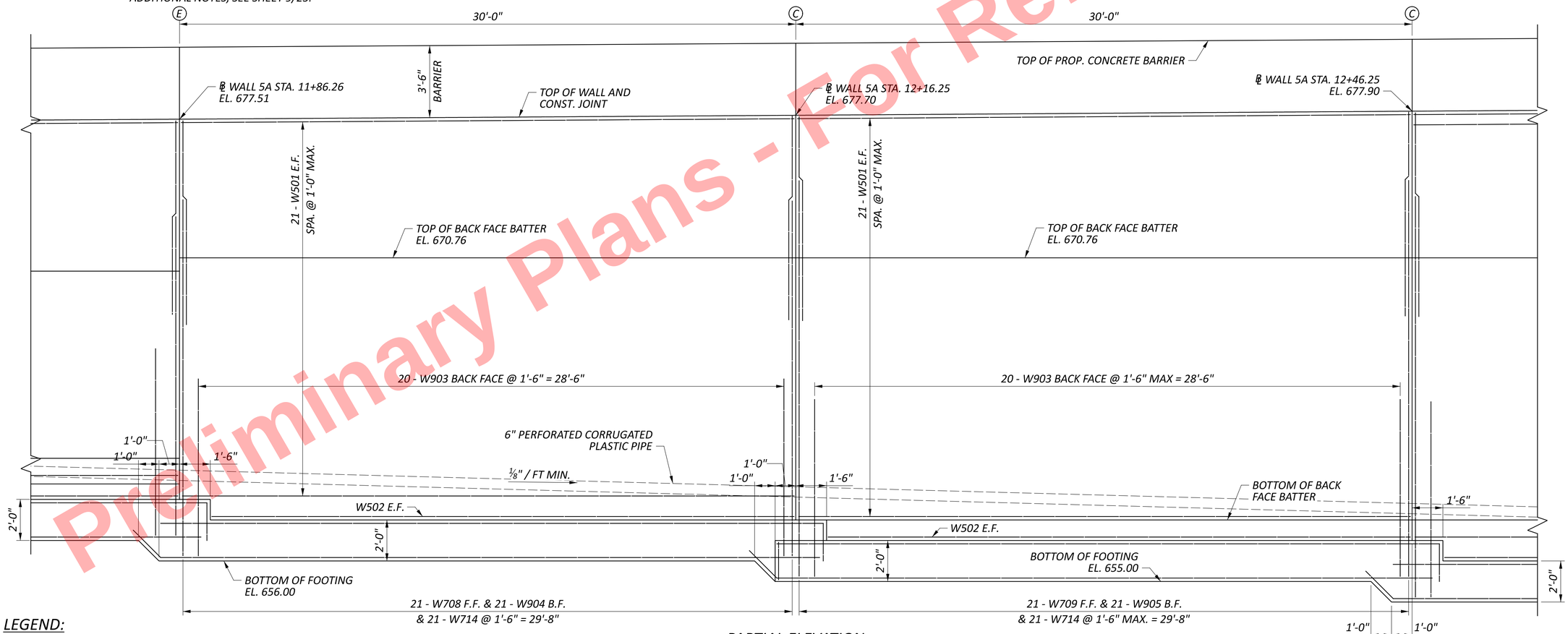


NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

PARTIAL PLAN

(*) - BACK FACE BATTER



LEGEND:

Ⓒ - CONTRACTION JOINT
Ⓔ - EXPANSION JOINT

PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

Preliminary Plans - For Reference Only

WALL PLAN AND ELEVATION RETAINING WALL 5A

CUY-77-11.41 - PART 1

MODEL: up 15-16 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:44:35 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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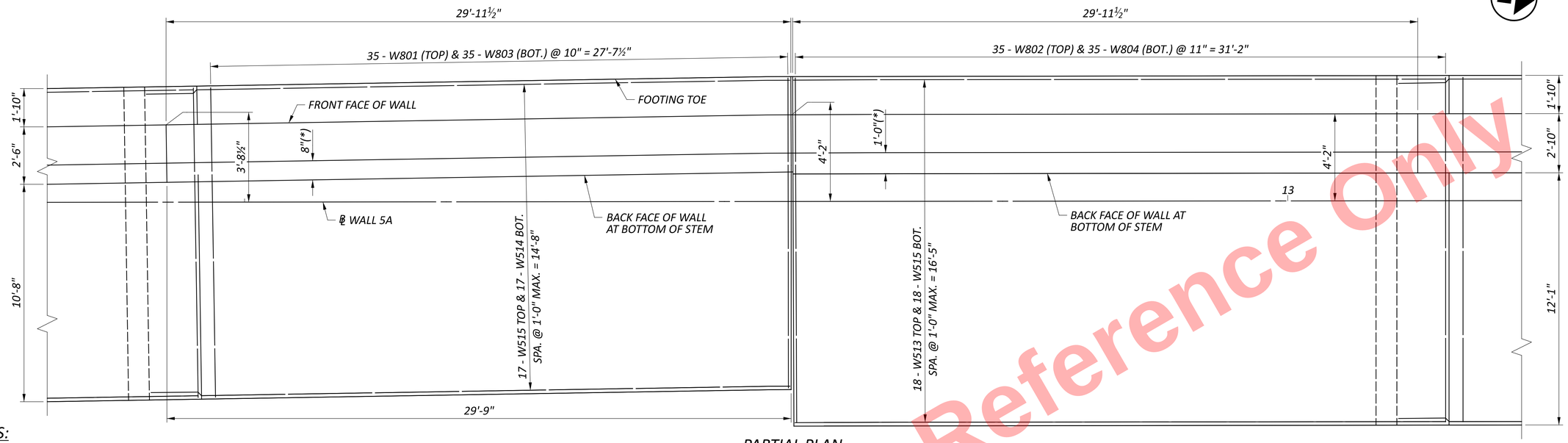
DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 16 | TOTAL: 23
SHEET: P.952 | TOTAL: P.1269

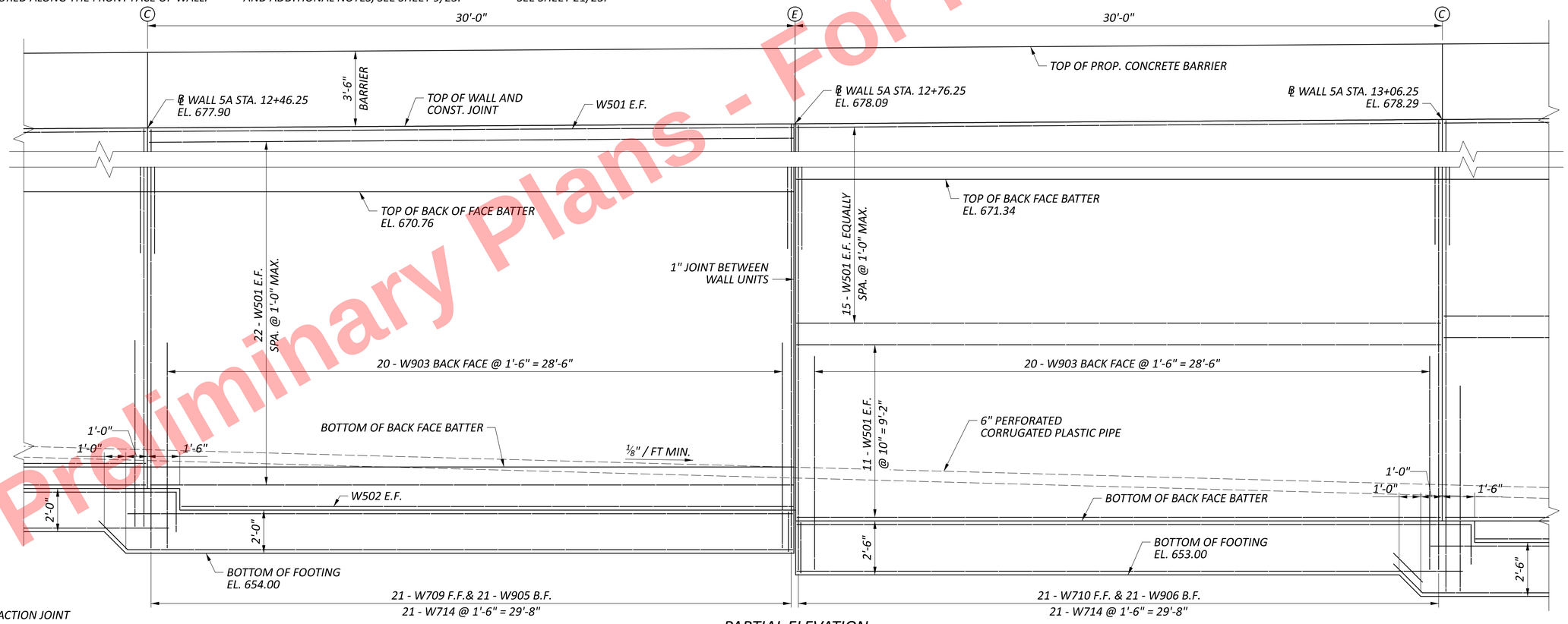
Preliminary Plans - For Reference Only



NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

PARTIAL PLAN



LEGEND:

Ⓒ - CONTRACTION JOINT
Ⓔ - EXPANSION JOINT
(*) - BACK FACE BATTER

PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

WALL PLAN AND ELEVATION
RETAINING WALL 5A

DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	17
TOTAL	23
SHEET	P.953
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: up 17-18 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:44:36 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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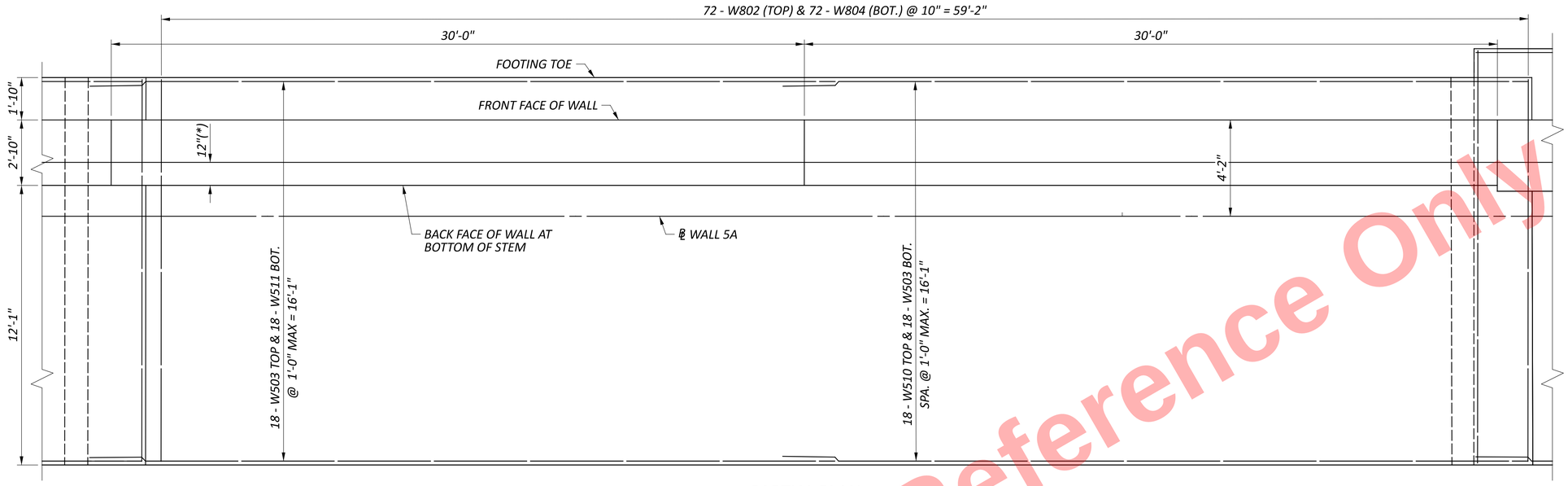
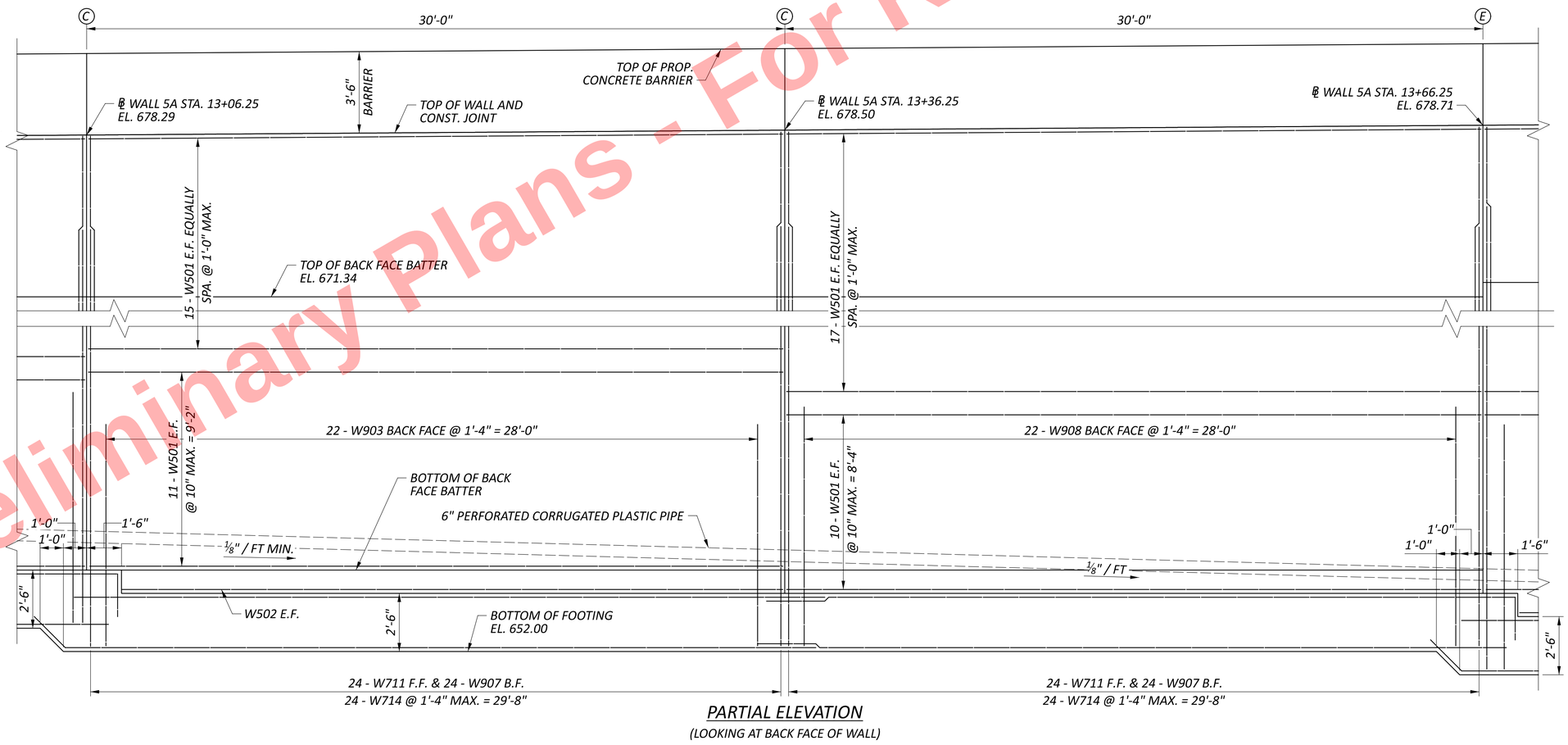


PARTIAL PLAN



PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

LEGEND:

Ⓒ - CONTRACTION JOINT
Ⓔ - EXPANSION JOINT
(*) - BACK FACE BATTER

Preliminary Plans - For Reference Only

WALL PLAN AND ELEVATION
RETAINING WALL 5A

CUY-77-11.41 - PART 1

MODEL: up 19-20 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:44:37 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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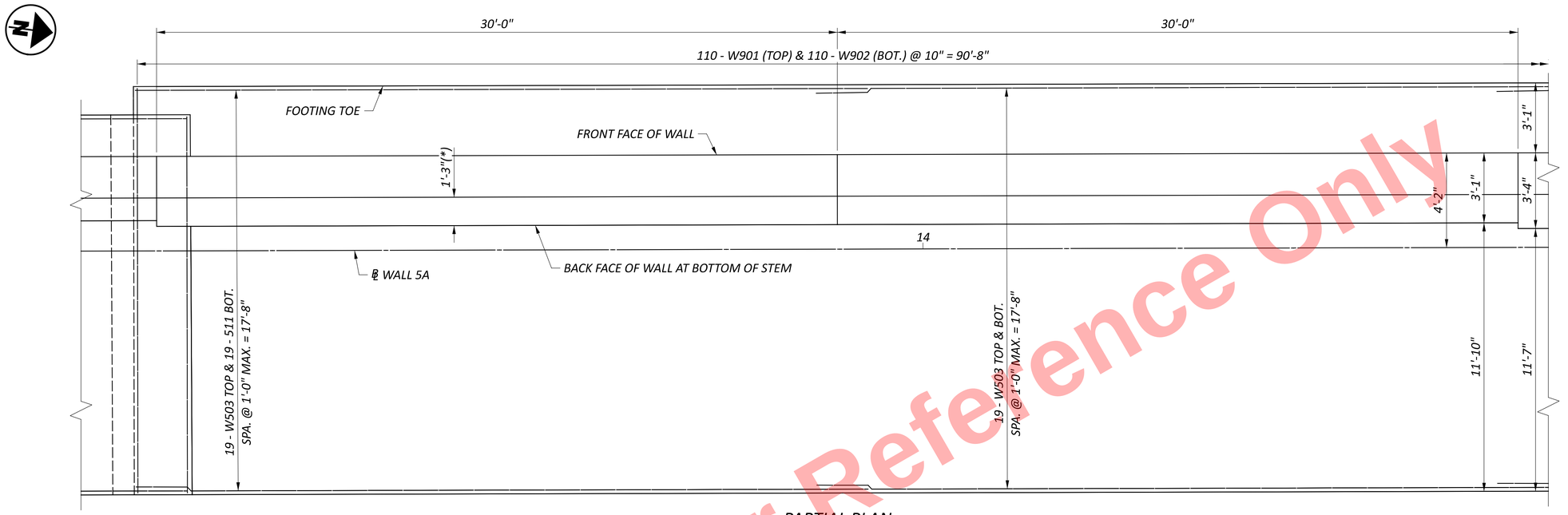
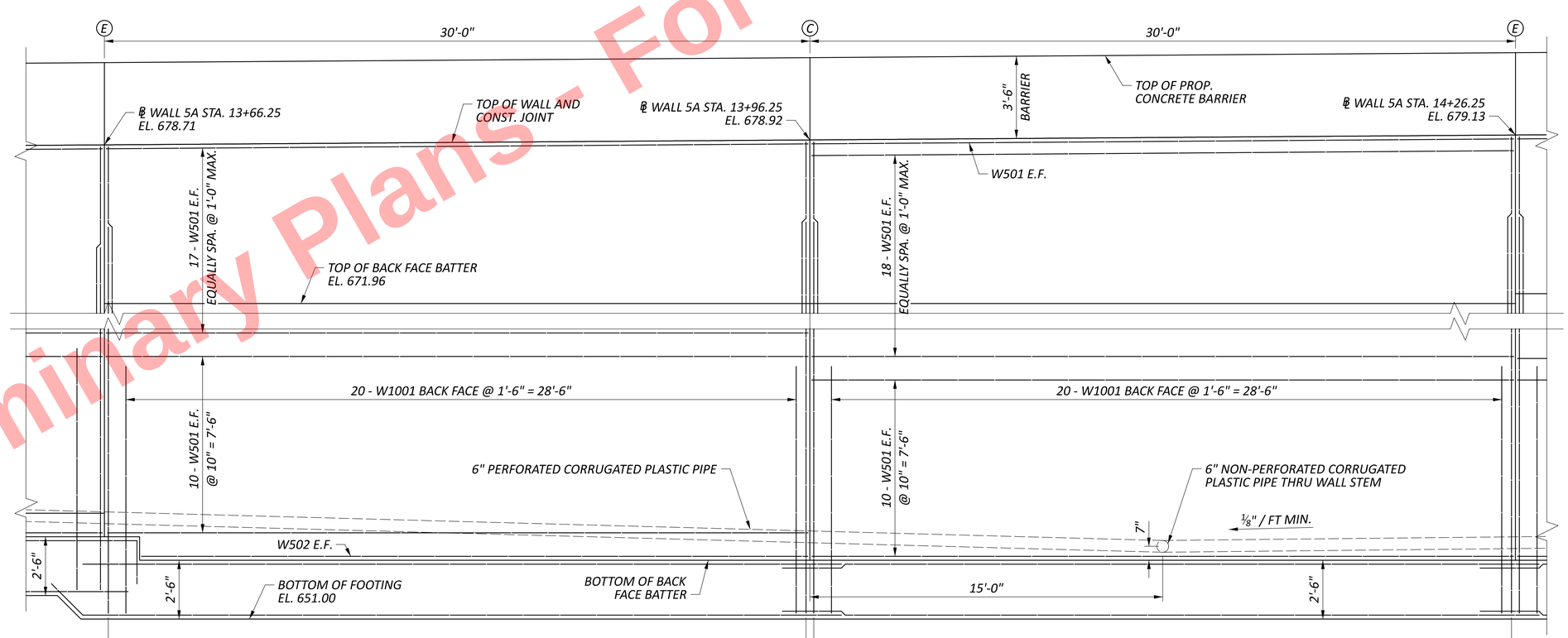
DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 18 TOTAL: 23
SHEET: P.954 TOTAL: P.1269



PARTIAL PLAN



PARTIAL ELEVATION
(LOOKING AT BACK FACE OF WALL)

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

LEGEND:

Ⓒ - CONTRACTION JOINT
Ⓔ - EXPANSION JOINT
(*) - BACK FACE BATTER

Preliminary Plans - For Reference Only

WALL PLAN AND ELEVATION
RETAINING WALL 5A

DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 19 TOTAL: 23
SHEET: P.955 TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: UP 21-22 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:44:37 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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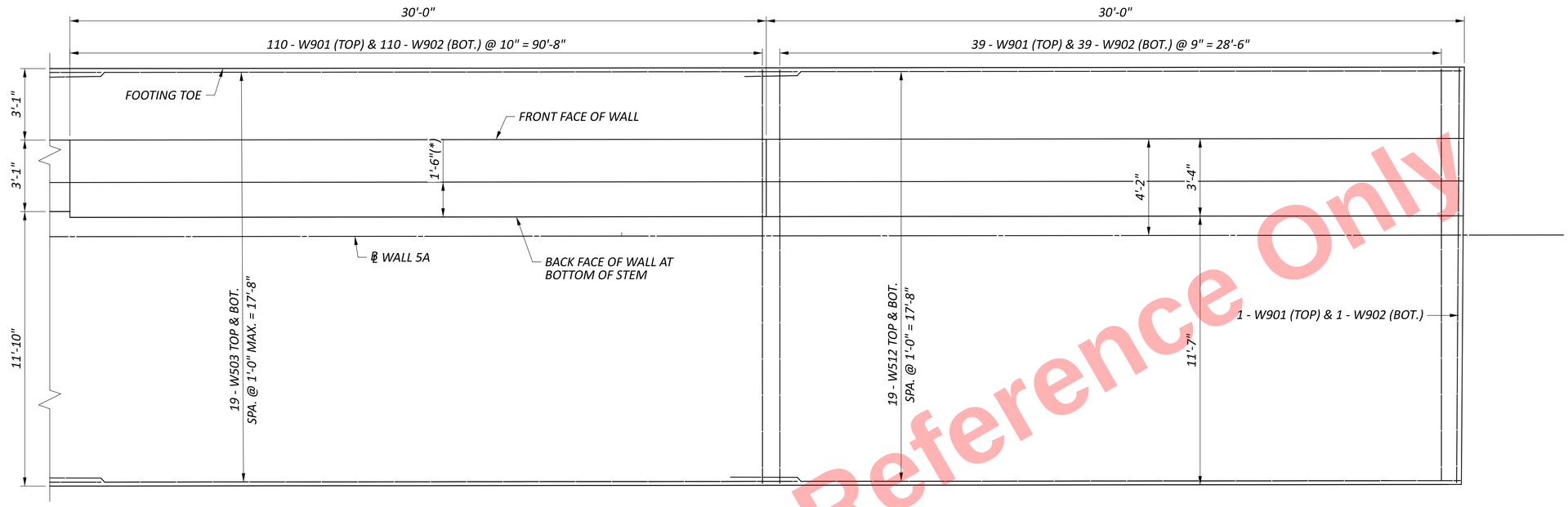
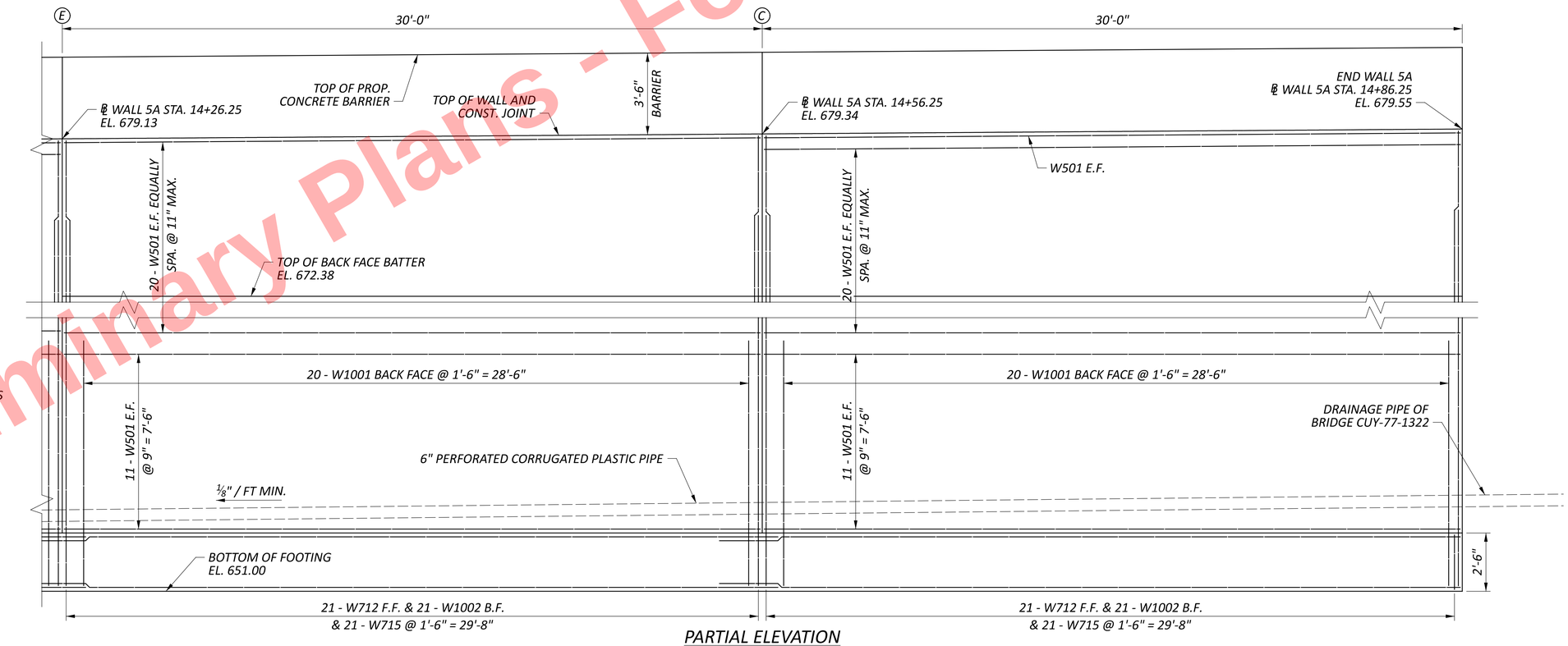


PARTIAL PLAN



PARTIAL ELEVATION
(LOOKING AT BACK FACE OF WALL)

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

LEGEND:

(C) - CONTRACTION JOINT
(E) - EXPANSION JOINT
(*) - BACK FACE BATTER

Preliminary Plans - For Reference Only

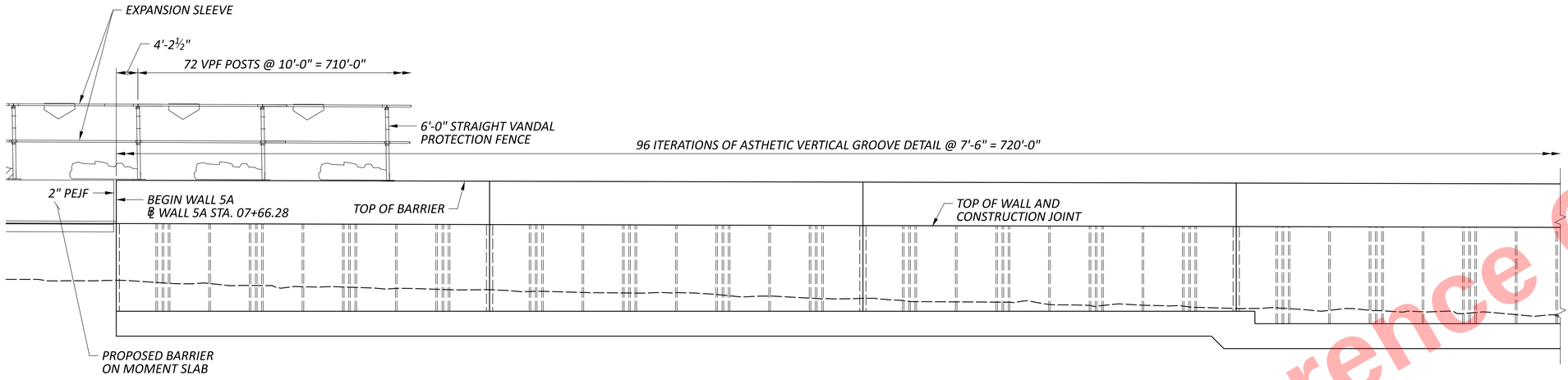
WALL PLAN AND ELEVATION RETAINING WALL 5A

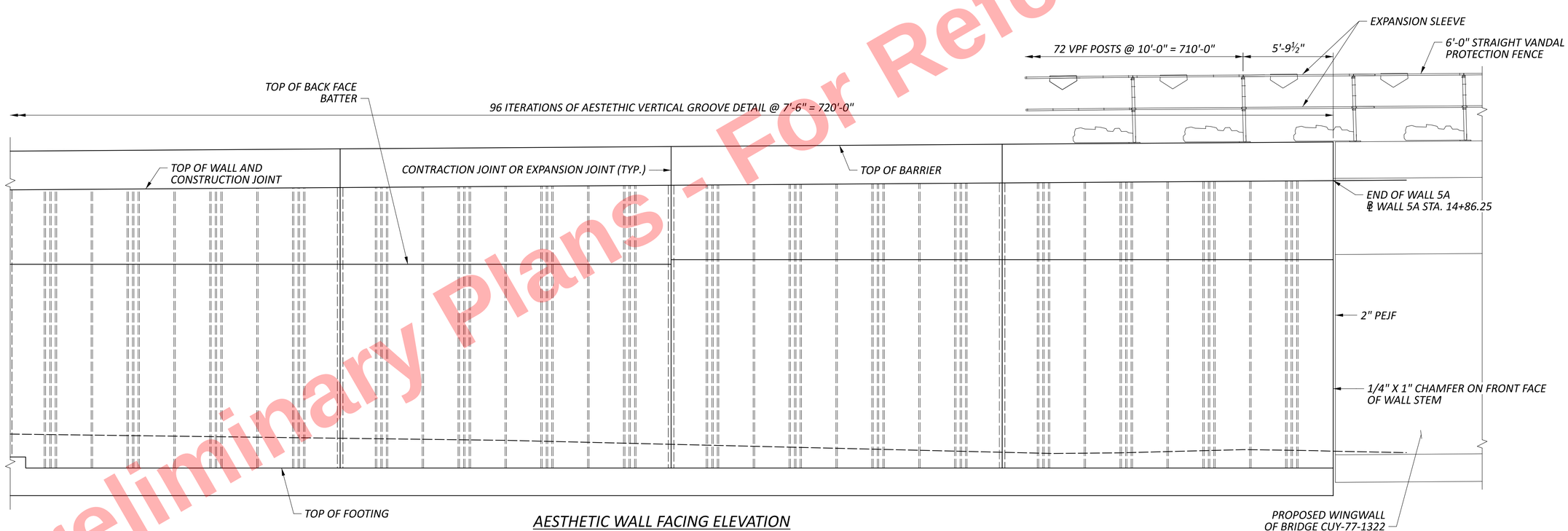
CUY-77-11.41 - PART 1

DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET / TOTAL	20 / 23
SHEET / TOTAL	P.956 / P.1269

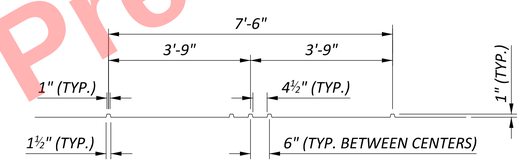
MODEL: UP 23-24 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:44:38 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05A\Sheets\105743_WALL05A_WE001.dgn





AESTHETIC WALL FACING ELEVATION

(LOOKING AT BACK FACE OF WALL)



AESTHETIC VERTICAL GROOVE DETAIL

NOTES:

1. ALL DIMENSIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. PAYMENT FOR ALL FORMWORK, MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO PRODUCE THE AESTHETIC WALL FACING PATTERN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 511, CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN.
3. FOR WALL ELEVATIONS, SEE SHEETS 9/23 THRU 20/23.

Preliminary Plans - For Reference Only

AESTHETIC DETAILS AND VANDAL FENCE LAYOUT RETAINING WALL 5A

DESIGN AGENCY: TRC

DESIGNER: CEJ

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 21 | TOTAL: 23

SHEET: P.957 | TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: sheet 2 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:44:46 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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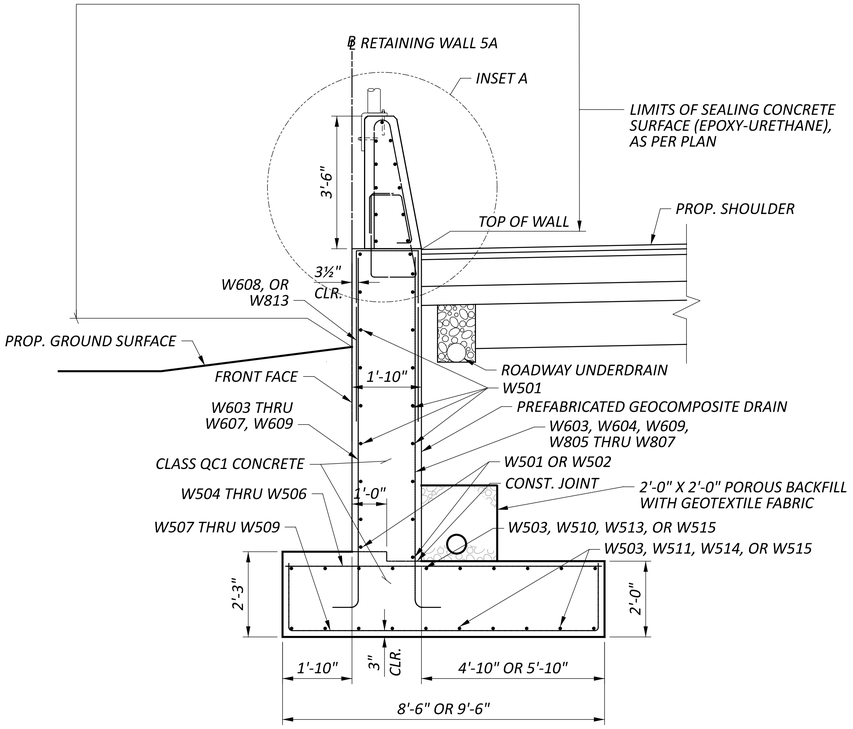
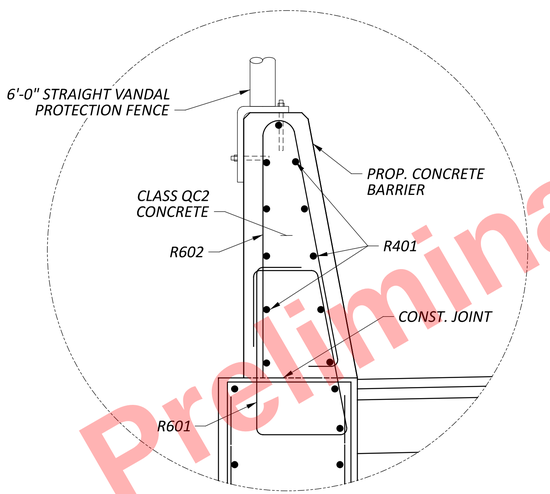


WALL 5A TYPICAL SECTION

(FROM ℄ WALL 5A STA. 7+66.28 TO 10+06.28)

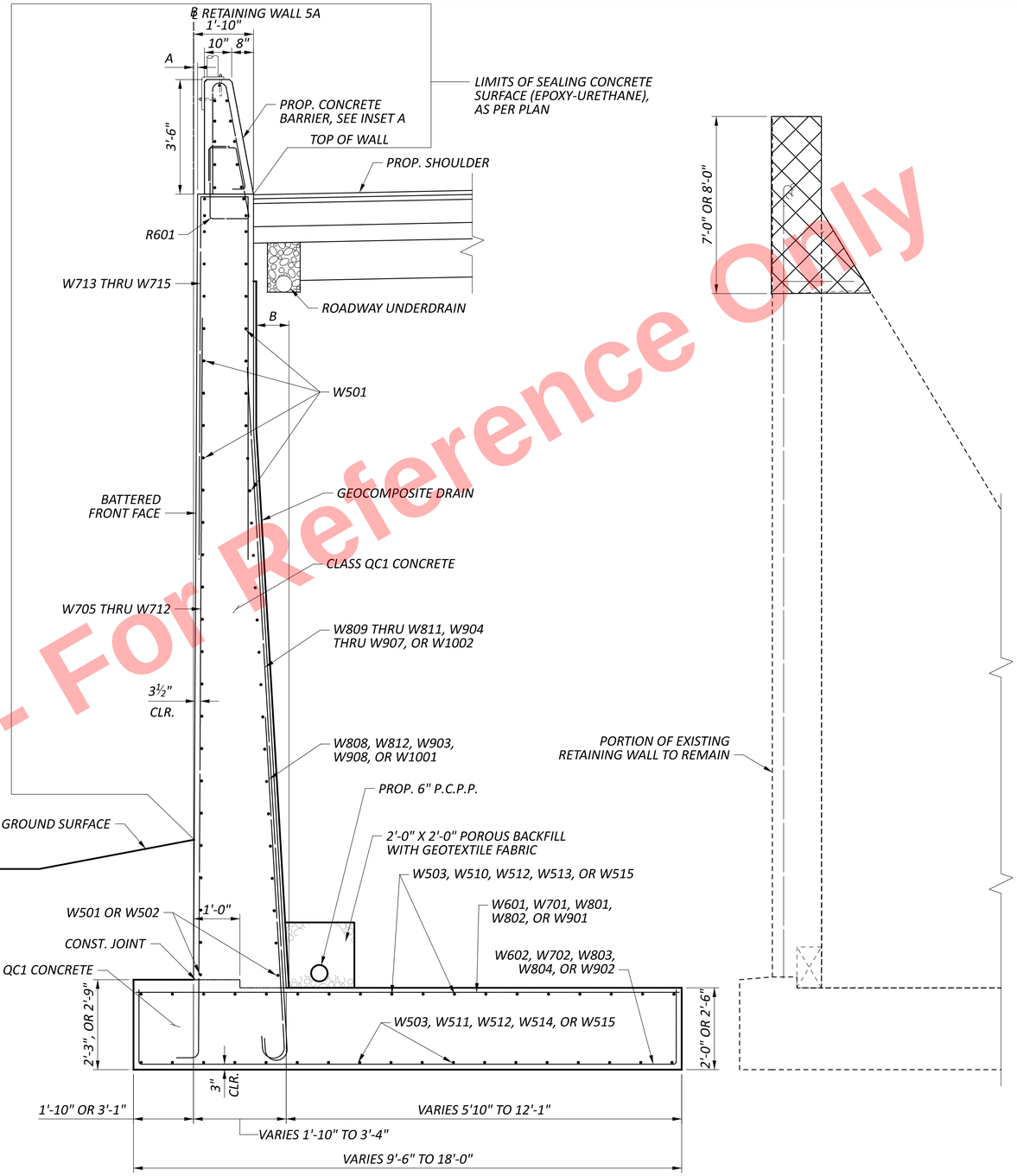


INSET A

WALL STEM BATTER		
WALL 5A STATION	FRONT FACE (DIM. "A")	BACK FACE (DIM. "B")
10+06.28	13/16"	0'-0"
10+36.28	13/16"	0'-0"
10+66.27	15/16"	0'-0"
10+96.27	1"	0'-5"
11+26.27	1 1/16"	0'-5"
11+56.26	1 1/8"	0'-5"
11+86.26	1 1/4"	0'-5"
12+16.25	1 5/16"	0'-5"
12+46.25	1 3/8"	0'-5"
12+76.25	1 7/16"	1'-0"
13+06.25	1 1/2"	1'-0"
13+36.25	1 1/2"	1'-0"
13+66.25	1 9/16"	1'-3"
13+96.25	1 9/16"	1'-3"
14+26.25	1 5/8"	1'-6"
14+56.25	1 5/8"	1'-6"
14+86.25	1 5/8"	1'-6"

NOTES:

1. FOR WALL PLAN AND ELEVATION, SEE SHEETS 9/23 THRU 20/23.
2. FOR REINFORCING STEEL LIST, SEE SHEET 23/23.
3. PREFABRICATED GEOCOMPOSITE DRAIN SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BEHIND THE WALL STEM.
4. GRANULAR MATERIAL, TYPE C, COMPACTED PER CMS 203, SHALL BE PLACED ABOVE THE WALL FOOTING UP TO THE ROADWAY SUBGRADE AND BETWEEN THE PROPOSED WALL STEM AND THE EXISTING RETAINING WALL WHERE THE STRUCTURE REMAINS.



WALL 5A TYPICAL SECTION

(FROM ℄ WALL 5A STA. 10+06.28 TO 14+86.25)

Preliminary Plans - For Reference Only

TYPICAL SECTION
RETAINING WALL 5A

DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	22
TOTAL	23
SHEET	P.958
TOTAL	P.1269

CUY-77-11.41 - PART 1

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MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
WALL STEM AND FOOTING											
W501	872	29'-8"	26981	STR							
W502	28	28'-2"	823	STR							
W503	218	32'-2"	7314	STR							
W504	183	8'-2"	1559	STR							
W505	95	9'-2"	908	STR							
W506	73	10'-8"	812	STR							
W507	183	11'-3"	2147	2	1'-8"	8'-2"	1'-8"				
W508	95	12'-3"	1214	2	1'-8"	9'-2"	1'-8"				
W509	73	13'-9"	1047	2	1'-8"	10'-8"	1'-8"				
W510	143	33'-10"	5046	1	32'-2"	1'-10"					
W511	169	34'-2"	6022	19	32'-2"	1'-5"	1'-5"				
W512	38	30'-9"	1219	STR							
W513	29	32'-8"	988	1	31'-0"	1'-10"					
W514	28	32'-9"	956	19	30'-9"	1'-5"	1'-5"				
W515	57	31'-0"	1843	STR							
W601	73	12'-2"	1334	STR							
W602	73	15'-2"	1663	2	1'-8"	12'-2"	1'-8"				
W603	186	9'-4"	2607	1	8'-6"	1'-0"					
W604	186	10'-2"	2840	1	9'-4"	1'-0"					
W605	31	14'-4"	667	1	13'-10"	0'-8"					
W606	34	15'-7"	796	1	15'-1"	0'-8"					
W607	21	16'-9"	528	1	16'-3"	0'-8"					
W608	195	9'-2"	2685	2	4'-0"	1'-6"	4'-0"				
W609	136	11'-3"	2298	1	10'-5"	1'-0"					
W701	73	13'-8"	2039	STR							
W702	73	16'-6"	2462	2	1'-7"	13'-8"	1'-7"				
W705	24	13'-6"	662	1	12'-6"	1'-2"					
W706	24	14'-8"	719	1	13'-8"	1'-2"					
W707	24	15'-11"	781	1	14'-11"	1'-2"					
W708	24	16'-8"	818	1	15'-8"	1'-2"					
W709	42	17'-9"	1524	1	16'-9"	1'-2"					
W710	21	20'-3"	869	1	19'-3"	1'-2"					
W711	48	21'-7"	2118	1	20'-7"	1'-2"					
W712	84	22'-8"	3892	1	21'-8"	1'-2"					
W713	72	19'-11"	2931	2	9'-5"	1'-5"	9'-5"				
W714	132	20'-11"	5643	2	9'-11"	1'-5"	9'-11"				
W715	84	22'-2"	3806	2	10'-7"	1'-5"	10'-7"				
W801	72	14'-8"	2819	STR							
W802	107	16'-5"	4690	STR							
W803	72	17'-5"	3348	2	1'-7"	14'-8"	1'-7"				
W804	107	19'-2"	5476	2	1'-7"	16'-5"	1'-7"				
W805	31	14'-11"	1235	1	13'-10"	1'-4"					
W806	34	16'-1"	1460	1	15'-0"	1'-4"					
W807	41	17'-4"	1897	1	16'-3"	1'-4"					
W808	44	8'-8"	1018	16	7'-10"						
W809	24	14'-7"	934	16	13'-9"						
W810	24	15'-3"	977	16	14'-5"						
W811	24	16'-1"	1031	16	15'-3"						
W812	22	9'-11"	583	16	9'-1"						
W813	86	11'-0"	2526	2	5'-0"	1'-5"	5'-0"				
SUB-TOTAL			130,555								

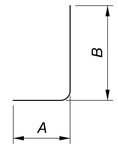
MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
WALL STEM AND FOOTING											
W901	149	17'-8"	8950	STR							
W902	149	21'-3"	10765	2	2'-1"	17'-8"	2'-1"				
W903	102	11'-1"	3844	16	9'-10"						
W904	21	18'-7"	1327	16	17'-4"						
W905	42	20'-9"	2963	16	19'-6"						
W906	21	22'-6"	1606	16	21'-3"						
W907	48	23'-4"	3808	16	22'-1"						
W908	22	11'-6"	860	16	10'-3"						
W1001	80	11'-11"	4102	16	10'-6"						
W1002	84	26'-3"	9488	16	24'-10"						
SUB-TOTAL			47,713								

MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
BARRIER											
R401	264	29'-8"	5232	STR							
R601	744	7'-4"	8195	37	0'-9"	0'-9 ½"	1'-5"	1'-0"	0'-7"		
R602	744	7'-0"	7823	23	0'-6"	3'-3"	3'-3"			0'-2"	
SUB-TOTAL			21,250								

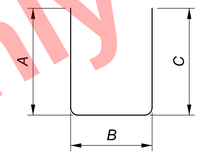
NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. ALL REINFORCING STEEL TO BE EPOXY COATED.



TYPE-1



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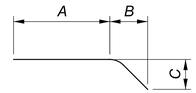

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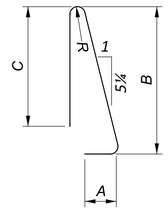

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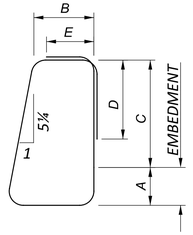

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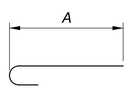

TYPE-16

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

REINFORCING STEEL LIST
RETAINING WALL 5A

DESIGN AGENCY TRC

DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 23 | TOTAL 23

SHEET P.959 | TOTAL P.1269

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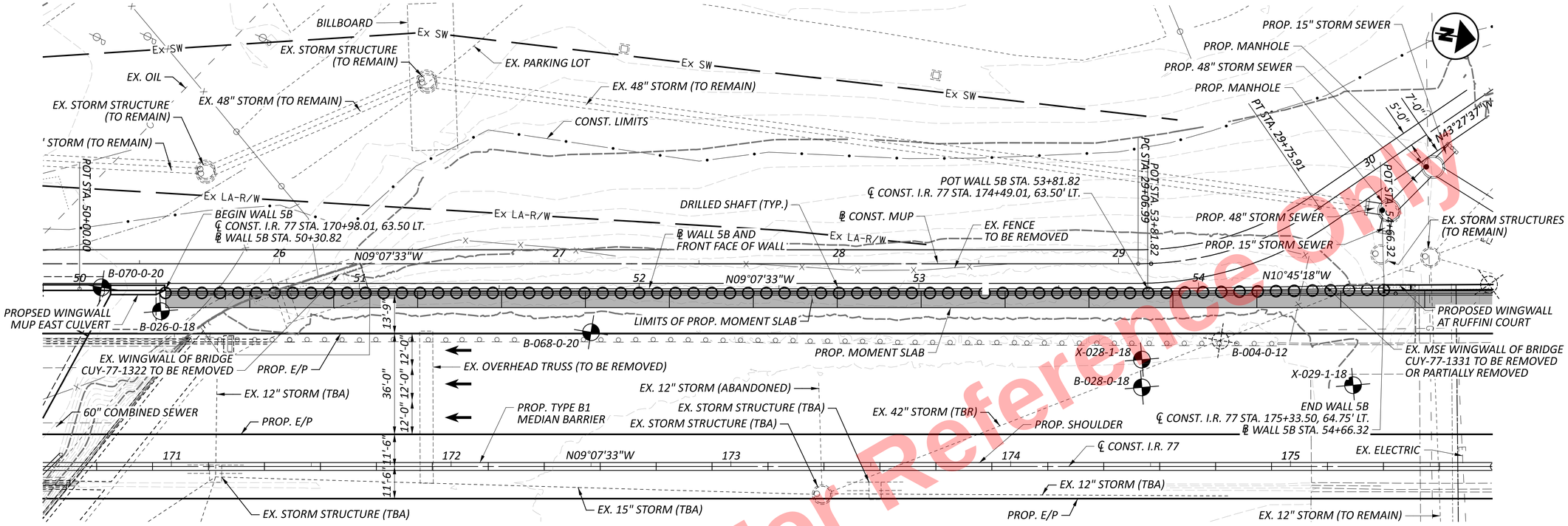
CURVE DATA MUP
P.I. = STA. 29+42.52
△ = 34°20'04" LT
Dc = 49°49'21"
R = 115.00'
T = 35.53'
L = 68.91'
E = 5.36'



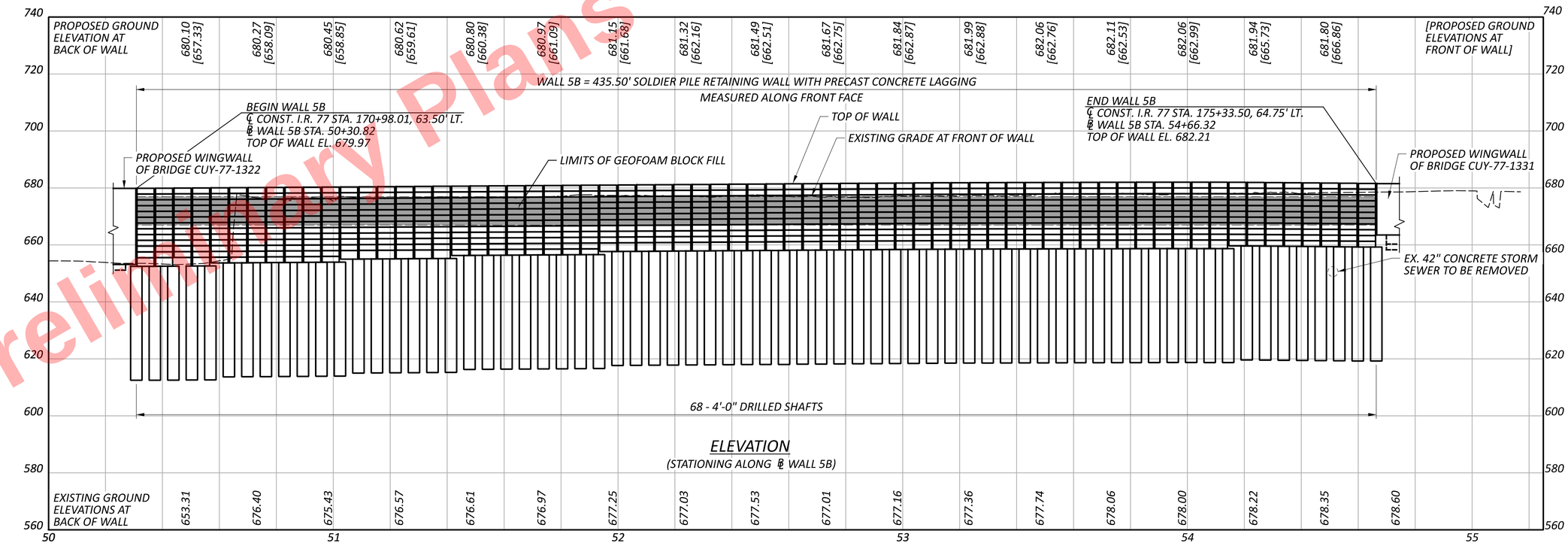
PLAN

NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A, 1B AND 1C.

LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION
- HISTORIC SOIL BORING LOCATION



ELEVATION

(STATIONING ALONG ℄ WALL 5B)

Preliminary Plans - For Reference Only

SITE PLAN
RETAINING WALL 5B

DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 1 TOTAL: 13
SHEET: P.960 TOTAL: P.1269

CUY-77-11.41 - PART 1

MODEL: plan [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 5:57:44 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05B\Sheets\105743_WALL05B_WP001.dgn

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 10TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN PARAMETERS

LIVE LOAD SURCHARGE = 250 PSF (2' DEPTH OF SOIL OVERBURDEN)

DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

EPOXY COATED REINFORCING STEEL - MIN. YIELD STRENGTH 60 KSI

STEEL SOLDIER PILES - ASTM A572 - YIELD STRENGTH 50 KSI

ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W36x256

THIS WORK CONSISTS OF FURNISHING AND PLACING STEEL SOLDIER PILES INTO DRILLED HOLES. FURNISH SOLDIER PILES CONSISTING OF STRUCTURAL STEEL MEMBERS THAT MEET THE PLAN REQUIREMENTS AND CONFORM TO ASTM A572, GRADE 50. DO NOT FIELD WELD OR SPLICE STEEL SOLDIER PILES.

THE DEPARTMENT WILL MEASURE SOLDIER PILES ALONG THE AXIS OF THE SOLDIER PILES FROM THE TOP OF WALL ELEVATION TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER. THE DEPARTMENT WILL PAY FOR SOLDIER PILES AT THE CONTRACT UNIT PRICE PER FOOT FOR ITEM 507, STEEL PILES, MISC.: SOLDIER PILES, W36x256

ALL SURFACES OF SOLDIER PILES SHALL BE SHOP PAINTED WITH A PRIME COAT FROM A DEPTH OF 3 FEET BELOW TOP OF DRILLED SHAFT TO THE TOP OF PILE. AFTER ALL LAGGING PANELS ARE INSTALLED, THE EXPOSED FLANGE SHALL BE PAINTED WITH A FINISH COAT THAT HAS A COLOR SIMILAR TO THE SEALANT ON THE CONCRETE LAGGING. ALL LABOR AND MATERIALS REQUIRED FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO PLACEMENT OF THE STEEL SOLDIER PILES.

ITEM SPECIAL - RETAINING WALL, PRECAST CONCRETE LAGGING:

THIS WORK CONSISTS OF FURNISHING AND PLACING PRECAST REINFORCED CONCRETE PANELS BETWEEN THE SOLDIER PILES TO FUNCTION AS LAGGING FOR THE RETAINING WALL. PROVIDE PRECAST CONCRETE LAGGING FROM A PRECAST CONCRETE MANUFACTURER CERTIFIED ACCORDING TO SUPPLEMENT 1073. PROVIDE CLASS QC 1 CONCRETE ACCORDING TO C&MS 499. PROVIDE EPOXY COATED REINFORCING STEEL ACCORDING TO C&MS 709.00. IN LIEU OF EPOXY COATING, A CORROSION INHIBITING CONCRETE ADMIXTURE MAY BE USED AT THE SPECIFIED DOSAGE RATE. A QUALIFIED PRODUCT LIST OF CORROSION INHIBITING ADMIXTURES IS ON FILE AT THE LABORATORY. MANUFACTURERS SHOULD RECOGNIZE THAT THE CORROSION INHIBITOR MAY AFFECT THE STRENGTH, ENTRAINED AIR CONTENT, WORKABILITY, ETC. OF THEIR CONCRETE MIXES. THE MANUFACTURER'S CHOICE TO USE ONE OF THESE CORROSION INHIBITORS DOES NOT ALLEVIATE MEETING ALL DESIGN REQUIREMENTS. DO NOT ALLOW THE DIMENSIONS OF THE LAGGING OR LOCATION OF THE REINFORCING STEEL TO VARY BY MORE THAN 1/4-INCH. CAST THREADED INSERTS INTO THE TOP OF EACH PANEL FOR LIFTING AND PLACING.

FILL ALL CAVITIES PRODUCED BY FORM TIES AND OTHER SINGLE DEFECTS OR DEFECTED AREAS AND WITH A PREQUALIFIED TROWELABLE MORTAR IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 843.02 AND 843.06. LIKEWISE FILL CAVITIES FOR LIFTING INSERTS IN THE TOP ROW OF PRECAST CONCRETE LAGGING PANELS. PROVIDE A BROOM/BRUSH FINISH TO ALL TROWELABLE MORTAR PATCHES. CURE THE TROWELABLE MORTAR ACCORDING TO SUPPLEMENTAL SPECIFICATION 843.07. AIR DRY FOR AT LEAST 10 DAYS AFTER COMPLETION OF THE MANUFACTURER'S RECOMMENDED CURE TIME FOR TROWELABLE MORTAR. BRUSH ABRASIVE BLAST, FOLLOWED BY AIR BROOMING OR POWER SWEEPING, TO REMOVE DUST AND SAND FROM THE SURFACE AND OPENED PORES.

FINISH THE FACES OF THE PRECAST CONCRETE LAGGING PANELS THAT WILL NOT BE EXPOSED TO A UNIFORM SURFACE, FREE OF OPEN POCKETS OF AGGREGATE. FINISH THE EXPOSED FACE OF THE PANELS TO A SMOOTH SURFACE. SEAL THE FRONT (EXPOSED) FACE, SIDES, TOP, BOTTOM, AND 3" MINIMUM OF THE BACK FACE OF THE CONCRETE PANEL WITH ITEM 512, SEALING OF CONCRETE SURFACES (EPOXY-URETHANE). THE COLOR OF THE URETHANE SHALL BE FEDERAL COLOR NUMBER 17778 (LIGHT NEUTRAL). COST OF SEALING SHALL BE INCIDENTAL AND INCLUDED WITH THE PRECAST CONCRETE LAGGING PANELS FOR PAYMENT.

PERMANENTLY MARK EACH PRECAST CONCRETE LAGGING PANEL TO INDICATE WHICH FACE WILL BE PLACED AGAINST THE SOIL. PLACE THE PANEL BETWEEN THE FLANGES OF THE SOLDIER PILES AND BEARING AGAINST THE FLANGES ON THE EXPOSED SIDE OF THE WALL SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST ONE INCH MORE THAN THE CONCRETE COVER OVER THE REINFORCING STEEL AT BOTH ENDS OF THE LAGGING.

HANDLE, STORE AND SHIP THE PRECAST CONCRETE LAGGING PANELS TO AVOID CHIPPING, CRACKING AND FRACTURING THE PANELS. SUPPORT THE PANELS ON FIRM BLOCKING WHILE STORING AND SHIPPING. DO NOT SHIP PANELS UNTIL CONCRETE HAS ATTAINED A MINIMUM 3000 PSI COMPRESSIVE STRENGTH. SUBMIT SHIPMENT DOCUMENTATION TO THE ENGINEER AS THE PANELS ARE DELIVERED TO THE PROJECT, INCLUDING THE PRECASTER'S RECORD OF FINAL INSPECTION, THE MEASUREMENTS AND TOLERANCES, STRENGTH, AND DIMENSIONS OF EACH PANEL, ALONG WITH THE TE-24 SHIPPING DOCUMENT.

INSPECT ALL PRECAST CONCRETE LAGGING PANELS AND REJECT PANELS HAVING ANY OF THE FOLLOWING:

1. DEFECTS THAT INDICATE IMPERFECT MOLDING.
2. DEFECTS THAT INDICATE HONEYCOMBED OR OPEN TEXTURE CONCRETE.
3. DEFECTS IN THE PHYSICAL CHARACTERISTICS OF THE CONCRETE, OR DAMAGE TO THE SEALING OF CONCRETE SURFACE TREATMENT OR TO AESTHETIC SURFACE TREATMENTS.
4. CONCRETE CHIPS OR SPALLS THAT ARE LARGER THAN 4 INCHES WIDE OR 2 INCHES DEEP. REPAIR ALL CHIPS AND SPALLS THAT ARE SMALLER.
5. STAINED FORM FACES DUE TO FORM OIL, CURING, OR OTHER CONTAMINANTS.
6. SIGNS OF AGGREGATE SEGREGATION.
7. CRACKS WIDER THAN 0.01 INCHES, PENETRATING MORE THAN 1 INCH OR LONGER THAN 20 PERCENT OF THE LENGTH OF THE FACE CONTAINING THE CRACK. REPAIR ALL CRACKS THAT ARE SMALLER.
8. PANELS THAT DO NOT MEET THE SPECIFIED DIMENSIONAL TOLERANCES.
9. UNUSABLE LIFTING INSERTS.
10. EXPOSED REINFORCING STEEL.
11. INSUFFICIENT CONCRETE COMPRESSIVE STRENGTH.

EITHER REPLACE DAMAGED PRECAST CONCRETE LAGGING PANELS OR DOCUMENT THE DAMAGE AND PROPOSE TO THE ENGINEER A REPAIR METHOD FOR THE DAMAGED PANEL; PERFORM REPAIRS WITH THE ACCEPTANCE OF THE ENGINEER. PROVIDE ACCEPTABLE REPLACEMENT PANELS FOR ANY THAT ARE REJECTED. WHEN INSTALLING THE PRECAST CONCRETE LAGGING PANELS, PLACE HARDWOOD WEDGES NEAR THE TOP AND BOTTOM N EACH SIDE TO HOLD THE LAGGING PANELS AGAINST THE FRONT INSIDE FLANGE OF THE STEEL PILES.

PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIAL REQUIRED TO FABRICATE, TRANSPORT, AND INSTALL THE PRECAST CONCRETE LAGGING PANELS SHALL BE MADE AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR ITEM 530 SPECIAL - RETAINING WALL, PRECAST CONCRETE LAGGING.

ITEM 524 - DRILLED SHAFTS, 48" DIAMETER ABOVE BEDROCK, AS PER PLAN

THIS WORK CONSISTS OF FURNISHING AND INSTALLING DRILLED SHAFTS FOR SOLDIER PILE AND LAGGING WALLS. THE DRILLED SHAFTS ARE REINFORCED WITH SOLDIER PILES INSTEAD OF REINFORCING STEEL CAGES. THE SOLDIER PILES EXTEND ABOVE THE TOP OF THE DRILLED SHAFT. FURNISH AND INSTALL THE DRILLED SHAFTS ACCORDING TO C&MS 524 EXCEPT AS MODIFIED AND SUPPLEMENTED BELOW.

EXCAVATE THE HOLE FOR THE DRILLED SHAFT WITHIN 3 INCHES OF THE PLAN LOCATION. PLACE THE SOLDIER PILE WITHIN THE HOLE SO IT IS VERTICAL AND NOT INCLINED MORE THAN 1 INCH BETWEEN TOP AND BOTTOM. PLACE THE SOLDIER PILE SO THAT THE FLANGES ARE PARALLEL TO THE CENTERLINE OF THE ROW OF DRILLED SHAFTS. DO NOT ALLOW THE ORIENTATION OF THE FLANGES TO VARY BY MORE THAN 10 DEGREES. SUPPORT THE SOLDIER PILE SO THAT IT DOES NOT MOVE DURING CONCRETE PLACEMENT.

USE CLASS QC1 CONCRETE ACCORDING TO C&MS 511. PLACE CONCRETE TO THE ELEVATION FOR THE TOP OF THE DRILLED SHAFT. THE CONTRACTOR MAY PLACE CONCRETE USING THE FREE FALL METHOD PROVIDED THE DEPTH OF WATER IS LESS THAN 6 INCHES AND THE CONCRETE FALLS WITHOUT STRIKING THE SIDES OF THE HOLE. POURING CONCRETE ALONG THE WEB OF THE SOLDIER PILE IS ACCEPTABLE.

CHECK THE POSITION, THE VERTICAL ALIGNMENT AND ORIENTATION OF THE SOLDIER PILE IMMEDIATELY AFTER CONCRETE PLACEMENT. MAKE CORRECTIONS AS NECESSARY TO MEET THE ABOVE TOLERANCES.

IF REQUIRED TO MAINTAIN HOLE STABILITY, FILL THE HOLE ABOVE THE BOTTOM OF THE LAGGING TO THE EXISTING GROUND SURFACE WITH ITEM 613 LOW STRENGTH MORTAR BACKFILL (LSM).

REMOVE CONCRETE AND LSM AS NECESSARY FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE THE LAGGING. PLACE THE LAGGING SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING. WAIT AT LEAST 12 HOURS AFTER PLACING CONCRETE IN THE DRILLED SHAFTS BEFORE PLACING LAGGING.

SEQUENCE OF INSTALLATION: INSTALL THE DRILLED SHAFTS IN A SEQUENCE SUCH THAT NO DRILLED SHAFT IS INSTALLED ADJACENT TO EITHER AN OPEN DRILLED SHAFT EXCAVATION OR A DRILLED SHAFT IN WHICH THE CONCRETE HAS LESS THAN A 48 HOUR CURE. INSTALLING THE SHAFTS IN AN ALTERNATING SEQUENCE OR ANY OTHER SEQUENCE THAT MEETS THIS CRITERIA IS PERMISSIBLE.

PROTECTION OF UNATTENDED OPEN SHAFTS: COVER UNATTENDED OPEN SHAFTS. USE TEMPORARY COVERS OF ADEQUATE STRENGTH TO PREVENT A PERSON OR ANIMAL FROM FALLING IN. LEAVE NO DRILLED SHAFT EXCAVATION UN-POURED OVERNIGHT.

THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHOD USED TO CONSTRUCT THE DRILLED SHAFTS AND PLACE LAGGING. ANY TEMPORARY GRADING, EXCAVATION, EMBANKMENT, AGGREGATE, DRAINAGE, SHEETING, ETC. NEEDED TO COMPLETE THE WORK IS INCLUDED IN THE BID PRICE FOR THE DRILLED SHAFTS. THE COST OF ANY EXCAVATION AND SUBSEQUENT REPLACEMENT OF EMBANKMENT (PER ITEM 203 EMBANKMENT) IS INCLUDED IN THE VARIOUS BID ITEMS FOR THE DRILLED SHAFTS AND LAGGING, UNLESS SEPARATELY ITEMIZED. NO SEPARATE PAYMENT WILL BE MADE.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE DRILLED SHAFTS ABOVE BEDROCK, AS PER PLAN, ALONG THE AXIS OF THE DRILLED SHAFT FROM THE EXISTING GROUND SURFACE TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER.

PAYMENT IS FULL COMPENSATION FOR CONSTRUCTING THE DRILLED SHAFTS, INCLUDING FURNISHING AND PLACING CONCRETE AND LSM, AND REMOVAL OF CONCRETE OR LSM FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE LAGGING.

ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

℄ - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

Not for Preliminary Plans - For Reference Only

DESIGN AGENCY
TRC

DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 2 TOTAL 13
SHEET P.961 TOTAL P.1269

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ITEM 203 - ROADWAY MISC.: EPS GEOFOAM FILL

THIS WORK CONSISTS FURNISHING, TRIMMING AND PLACING BLOCK-MOLDED EXPANDED POLYSTYRENE (EPS) FOR USE AS A GEOFOAM GEOSYNTHETIC PRODUCT IN APPLICATIONS REQUIRING LIGHTWEIGHT FILL MATERIAL.

FURNISH EPS GEOFOAM BLOCKS PRODUCED BY A MANUFACTURER WITH A QUALITY CONTROL PROGRAM WHICH IS MONITORED AND CERTIFIED BY AN ACCREDITED, THIRD-PARTY TESTING ORGANIZATION. AT LEAST 20 DAYS BEFORE THE WORK IS TO BEGIN, SUBMIT TO THE ENGINEER THE FOLLOWING DOCUMENTS:

1. CERTIFIED TEST DATA SHOWING THE EPS GEOFOAM MEETS THE SPECIFIED REQUIREMENTS.
2. MANUFACTURER'S QUALITY CONTROL PLAN AND EVIDENCE OF THIRD-PARTY QUALITY CONTROL MONITORING.
3. SHOP DRAWINGS SHOWING BLOCK THICKNESS, WIDTH, LENGTH AND LAYING PATTERN OR SCHEDULE.

FURNISH EPS GEOFOAM BLOCKS CONFORMING TO ASTM D 6817, RIGID CELLULAR POLYSTYRENE GEOFOAM, ACCORDING TO THE GEOFOAM TYPE INDICATED IN THE PLANS AND THE TABLE BELOW.

ASTM TYPE	EPS22	EPS29
MINIMUM DENSITY, LB/CU. FT.	1.35	1.8
COMPRESSIVE RESISTANCE		
AT 1% STRAIN, PSI	7.3	10.9
AT 5% STRAIN, PSI	16.7	25.0
AT 10% STRAIN, PSI	19.6	29.0
FLEXURAL STRENGTH, PSI	35.0	50.0

FURNISH BLOCKS TREATED BY THE MANUFACTURER WITH A TESTED AND PROVEN TERMITE TREATMENT FOR BELOW GRADE APPLICATIONS. THE TREATMENT SHALL BE EPA REGISTERED, MEET REQUIREMENTS OF ICC ES AC 239, AND BE RECOGNIZED IN AN ICC ES REPORT. FURNISH BLOCKS THAT MEET THE PRODUCT FLAMMABILITY REQUIREMENTS SPECIFIED IN ASTM C578.

FURNISH BLOCKS THAT ARE SMOOTH AND FLAT ON ALL SURFACES AND HAVE A DIMENSIONAL TOLERANCE OF ±0.5 PERCENT. THE CORNER OR EDGE FORMED BY ANY TWO FACES OF A BLOCK SHALL BE PERPENDICULAR. THE DEVIATION OF ANY FACE OF THE BLOCK FROM A THEORETICAL PERPENDICULAR PLANE SHALL NOT EXCEED 1/8 INCH OVER A DISTANCE OF 20 INCHES. ANY ONE FACE OF A BLOCK SHALL NOT DEVIATE FROM A THEORETICAL PLANE BY MORE THAN 1/4 INCH WHEN MEASURED USING A STRAIGHTEDGE WITH A LENGTH OF 10 FEET.

BEFORE SHIPPING TO THE SITE, ENSURE BLOCKS ARE SEASONED BY STORING THEM AT THE MANUFACTURER'S FACILITY FOR AT LEAST 72 HOURS AT NORMAL AMBIENT ROOM TEMPERATURE AFTER BEING RELEASED FROM THE MOLD. DURING SEASONING, ALLOW ADEQUATE SPACE BETWEEN THE BLOCKS TO ALLOW AIR CIRCULATION SO AS TO FOSTER THE OUTGASSING OF BLOWING AGENT AND TRAPPED CONDENSATE FROM WITHIN THE BLOCKS.

LABEL EACH BLOCK WITH THE MANUFACTURER'S NAME, ASTM EPS TYPE, THE DATE THE BLOCK WAS MOLDED, THE WEIGHT AND THE DENSITY OF THE BLOCK AS MEASURED AFTER SEASONING.

PROTECT THE BLOCKS FROM EXPOSURE TO THE FOLLOWING:

1. ORGANIC SOLVENTS SUCH AS ACETONE, BENZENE, AND PAINT THINNER
2. PETROLEUM BASED SOLVENTS SUCH AS GASOLINE AND DIESEL FUEL
3. HEAT SOURCES OR ACTIVITY THAT PRODUCE HEAT OR FLAME, INCLUDING TOBACCO SMOKING
4. MORE THAN 30 DAYS EXPOSURE TO SUNLIGHT

PROVIDE TIE DOWN STRAPS, SANDBAGS OR OTHER FLEXIBLE WEIGHTS TO PREVENT BLOCKS FROM BEING DISLODGED BY WIND. DO NOT STORE WHERE THERE IS A POTENTIAL FOR FLOODING.

PROTECT BLOCKS FROM DAMAGE. BLOCKS WITH SLIGHT DAMAGE WHICH AFFECTS A VOLUME OF 0.12 CUBIC FEET OR LESS MAY BE USED AS IS. BLOCKS WITH MODERATE DAMAGE WHICH AFFECTS A VOLUME OF 0.35 CUBIC FEET OR LESS MAY BE USED AND THE DAMAGED AREA FILLED WITH SAND. DO NOT USE BLOCKS WITH DAMAGE THAT AFFECTS A VOLUME GREATER THAN 0.35 CUBIC FEET. THE CONTRACTOR MAY CUT AND REMOVE THE DAMAGED PORTION OF A BLOCK AND THEN USE THE REMAINING UNDAMAGED PORTION OF THE BLOCK IF IT MEETS ALL OTHER REQUIREMENTS.

PREPARE THE SURFACE ON WHICH THE FIRST LAYER OF BLOCKS WILL BE PLACED BY STRIPPING ALL VEGETATION AND GRADING SO THAT IT IS LEVEL WITHIN A TOLERANCE OF 0.5 INCH OVER A 10 FT DISTANCE. PLACE GRANULAR MATERIAL CONFORMING TO SIZE NO. 9 IN TABLE 703.01 IN THE CM&S ON THE SURFACE TO FILL ANY LOW SPOTS IN THE SURFACE. ALSO USE NO. 9 GRANULAR MATERIAL TO FILL VOIDS BETWEEN THE SIDES OF BLOCKS AND ADJACENT SOIL OR RETAINING WALL COMPONENTS.

PLACE BLOCKS AS INDICATED ON THE PLANS AND SHOP DRAWINGS. CUT BLOCKS AS NEEDED TO FIT BETWEEN WALL SOLDIER BEAMS. PLACE BLOCKS SO THAT ALL VERTICAL AND HORIZONTAL JOINTS BETWEEN BLOCKS ARE TIGHT. GAPS BETWEEN BLOCKS AND ALONG THE RETAINING WALL SHALL NOT EXCEED 1 INCH. AVOID CONTINUOUS VERTICAL JOINTS BY OFFSETTING AND ROTATING SUCCESSIVE LAYERS OF BLOCKS. OFFSET BLOCKS AT LEAST 2 FEET BETWEEN LAYERS. THE SURFACE OF EACH LAYER OF BLOCKS ON WHICH ANOTHER LAYER WILL BE PLACED MUST BE LEVEL TO WITHIN 0.5 INCH OVER A 10 FT DISTANCE. CONSTRUCT THE SURFACE OF THE UPPERMOST LAYER OF BLOCKS TO THE GRADE SHOWN ON THE PLANS TO A TOLERANCE OF ZERO TO MINUS 2.5 INCHES.

TRIM THE BLOCKS AS REQUIRED USING A SAW OR HOTWIRE.

PLACE CONNECTOR PLATES BETWEEN HORIZONTAL LAYERS OF BLOCKS. PLACE AT LEAST TWO CONNECTOR PLATES PER BLOCK. FURNISH CONNECTOR PLATES MANUFACTURED FROM GALVANIZED STEEL OR STAINLESS STEEL AND THAT ARE BARBED ON BOTH SIDES. EACH CONNECTOR PLATE SHALL HAVE A LATERAL HOLDING STRENGTH OF AT LEAST 60 LBS.

PORTIONS OF THE GEOFOAM FILL THAT ARE NOT BENEATH A CONCRETE DISTRIBUTION SLAB OR CONCRETE APPROACH SLAB MUST BE PROTECTED FROM HYDROCARBON SPILLS (E.G. DIESEL OR GASOLINE) BY COVERING THE GEOFOAM BLOCKS ON THE TOP AND SIDES FURNISH A GEOMEMBRANE MANUFACTURED FROM A TRI-POLYMER MATERIAL CONSISTING OF POLYVINYL CHLORIDE, ETHYLENE INTERPOLYMER ALLOY, AND A POLYURETHANE OR A COMPARABLE POLYMER COMBINATION. THE MATERIAL SHALL MEET THE FOLLOWING PHYSICAL AND CHEMICAL REQUIREMENTS.

1. THICKNESS: MINIMUM 30 MILS (ASTM D751)
2. UNLEADED GASOLINE VAPOR MAXIMUM TRANSMISSION RATE 0.40 OZ. PER SQUARE FOOT PER 24 HOURS (ASTM D814)
3. GRAB TENSILE STRENGTH: MINIMUM 550 LBS BOTH MACHINE AND CROSS DIRECTION (ASTM D751)
4. ELONGATION AT BREAK: 20% MINIMUM (ASTM D751)
5. TOUGHNESS: MINIMUM 11,000 POUNDS (GRAB TENSILE STRENGTH MULTIPLIED BY PERCENT ELONGATION)
6. PUNCTURE RESISTANCE: MINIMUM 750 LB (ASTM D751 BALL TIP)
7. COLD CRACK: PASS AT -30° FAHRENHEIT (ASTM D2136 1 INCH MANDREL, 4 HOURS)
8. FACTORY SEAMS: 2-INCH MINIMUM BONDED WIDTH
9. SHEAR: MINIMUM 320 LB (ASTM D751)

PROVIDE CERTIFIED TEST DATA FROM THE MANUFACTURER THATS DEMONSTRATES THE GEOMEMBRANE MEETS THE ABOVE REQUIREMENTS. OVERLAP THE GEOMEMBRANE A MINIMUM OF 18 INCHES AT THE ENDS AND SIDES. PLACE THE BEGINNING OF EACH NEW ROLL BENEATH THE END OF THE PREVIOUS ROLL TO PREVENT THE ADVANCING FILL FROM LIFTING THE GEOMEMBRANE. STAGGER END OVERLAPS AT LEAST 5 FEET FROM THE OTHER END OVERLAPS IN ADJACENT ROLLS.

DO NOT DRIVE, OPERATE CONSTRUCTION EQUIPMENT, OR PLACE CONCENTRATED LOADS DIRECTLY ON THE BLOCKS. REMOVE AND REPLACE BLOCKS DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS AT NO EXPENSE TO THE DEPARTMENT. PLACE AT LEAST 12 INCHES OF FILL OVER THE TOP OF THE BLOCKS BEFORE BEGINNING COMPACTION.

THE DEPARTMENT WILL MEASURE THE QUANTITY OF EPS GEOFOAM FILL BY THE NUMBER OF CUBIC YARDS COMPLETED AND ACCEPTED IN PLACE. INCLUDE IN THE CONTRACT UNIT PRICE FOR EPS GEOFOAM FILL THE COST OF SITE PREPARATION, GRANULAR MATERIAL, CONNECTOR PLATES, GEOMEMBRANE WRAP, AND OTHER ITEMS WHICH DO NOT HAVE A SEPARATE PAY ITEM BUT ARE NECESSARY TO INSTALL THE EPS GEOFOAM FILL. THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICES AS FOLLOWS:

ITEM	UNIT	DESCRIPTION
203	CY	ROADWAY MISC.: EPS GEOFOAM FILL, TYPE EPS22
203	CY	ROADWAY MISC.: EPS GEOFOAM FILL, TYPE EPS29

ESTIMATED QUANTITIES (WALL 5B)

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
203	98000	713	CY	ROADWAY, MISC.: EPS GEOFOAM FILL, TYPE EPS22	3
203	98000	340	CY	ROADWAY, MISC.: EPS GEOFOAM FILL, TYPE EPS29	3
503	21101	1452	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN	12
507	00400	4365	FT	STEEL PILES, MISC.: SOLDIER PILES, W36x256	2
516	13600	436	SF	1" PREFORMED EXPANSION JOINT FILLER	
524	94903	2720	FT	DRILLED SHAFTS, 48" DIAMETER ABOVE BEDROCK, AS PER PLAN	
SPECIAL	53051010	9540	SF	RETAINING WALL, PRECAST LAGGING	2, 13
601	21000	6	SY	CONCRETE SLOPE PROTECTION	

Preliminary Plans - Not For Reference Only

DESIGN AGENCY
TRC
DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 3 TOTAL 13
SHEET P.962 TOTAL P.1269

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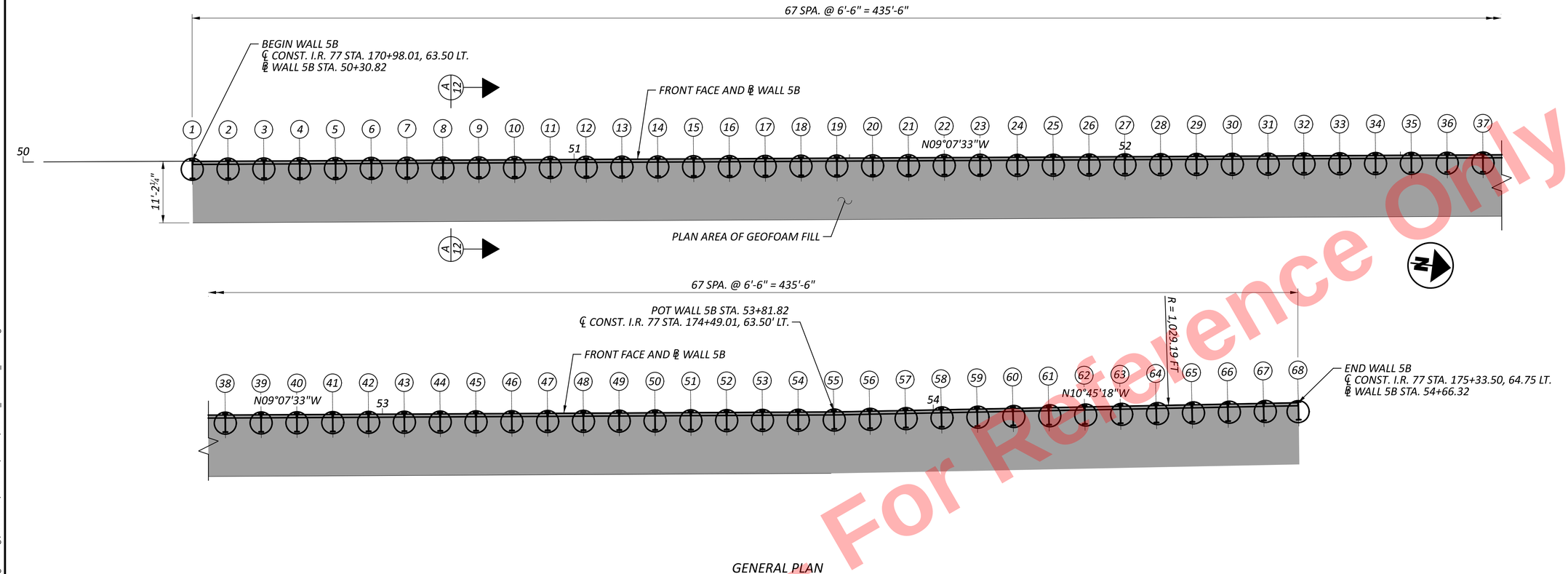
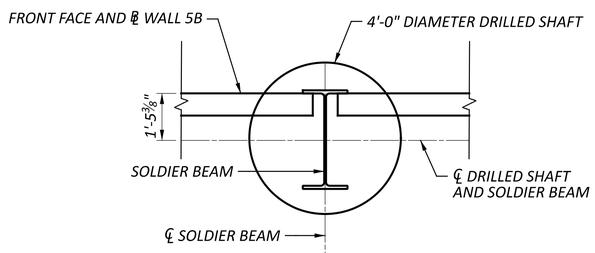


GENERAL PLAN

(DIMENSION ARE MEASURED ALONG FRONT FACE OF WALL)



DRILLED SHAFT LOCATION DETAIL

LEGEND:

Ⓘ - DENOTES DRILLED SHAFT WITH SOLDIER BEAM

(#) - DRILLED SHAFT NUMBER

NOTES:

1. FOR WALL ELEVATION VIEW, SEE SHEETS 5/13 THRU 11/13.
2. FOR WALL SECTIONS AND SOLDIER BEAM DETAILS, SEE SHEET 12/13.
3. FILL ALL VOIDS BETWEEN SOLDER BEAMS AND GEOFOAM WITH GRANULAR MATERIAL

Preliminary Plans - For Reference Only

PILE LAYOUT AND GEOMETRY SCHEMATIC
RETAINING WALL 5B

DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET / TOTAL	4 / 13
SHEET / TOTAL	P.963 / P.1269

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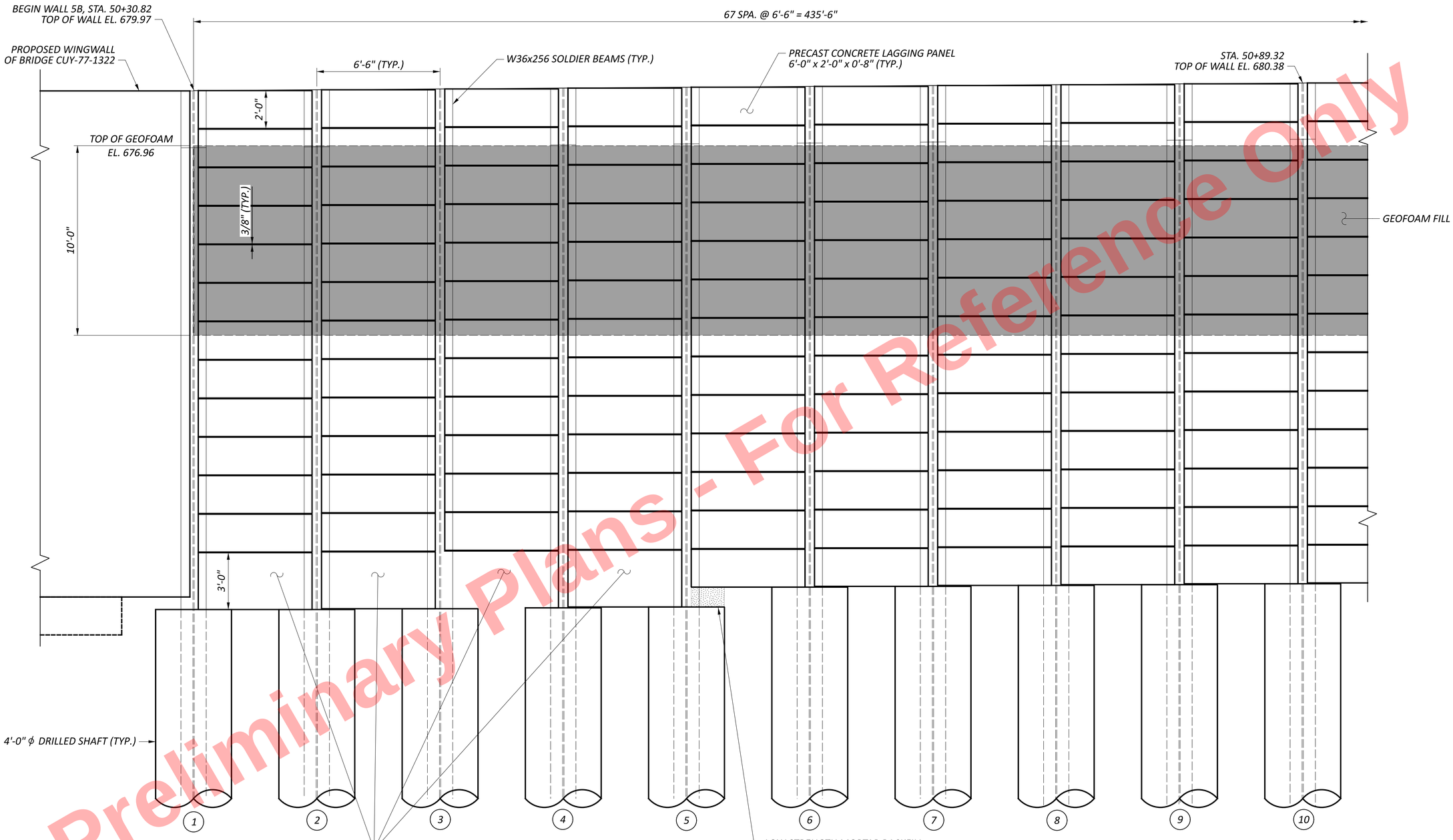

PARTIAL ELEVATION
(LOOKING AT BACK FACE OF WALL)

LEGEND:

(#) - DRILLED SHAFT NUMBER

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/13.
3. ALL LAGGING PANELS ARE 6'-0" X 2'-0 UNLESS NOTED OTHERWISE. FOR LAGGING DETAILS, SEE SHEET 13/13.

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: Sheet Pile 1 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:46:18 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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WALL ELEVATION
RETAINING WALL 5B

DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET / TOTAL	5 / 13
SHEET / TOTAL	P.964 / P.1269

MODEL: Sheet Pile 2 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:46:19 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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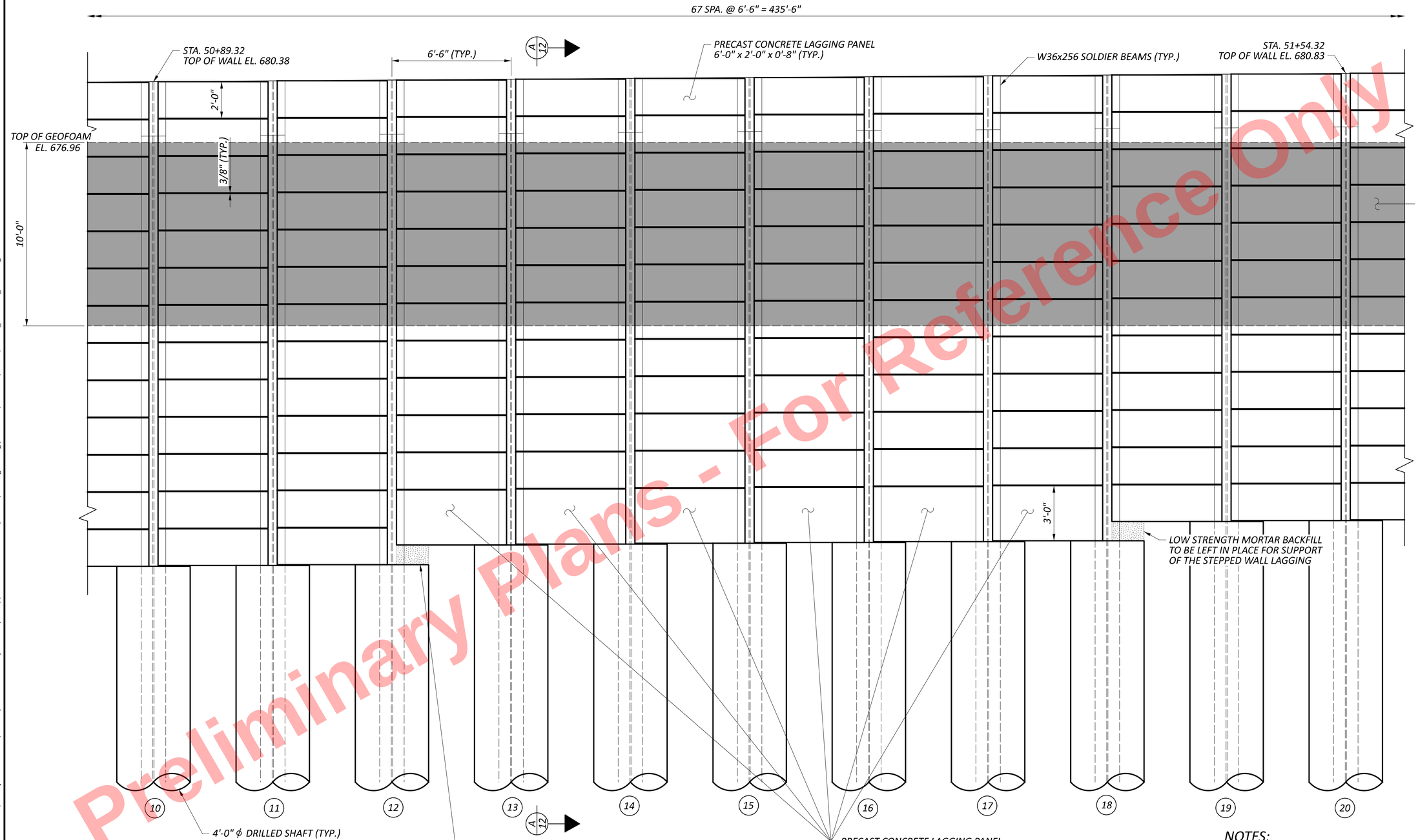


PARTIAL ELEVATION
(LOOKING AT BACK FACE OF WALL)

LEGEND:

(#) - DRILLED SHAFT NUMBER

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/13.
3. ALL LAGGING PANELS ARE 6'-0" X 2'-0 UNLESS NOTED OTHERWISE. FOR LAGGING DETAILS, SEE SHEET 13/13.
4. FOR SECTION A-A AND SECTION B-B, SEE SHEET 12/13.

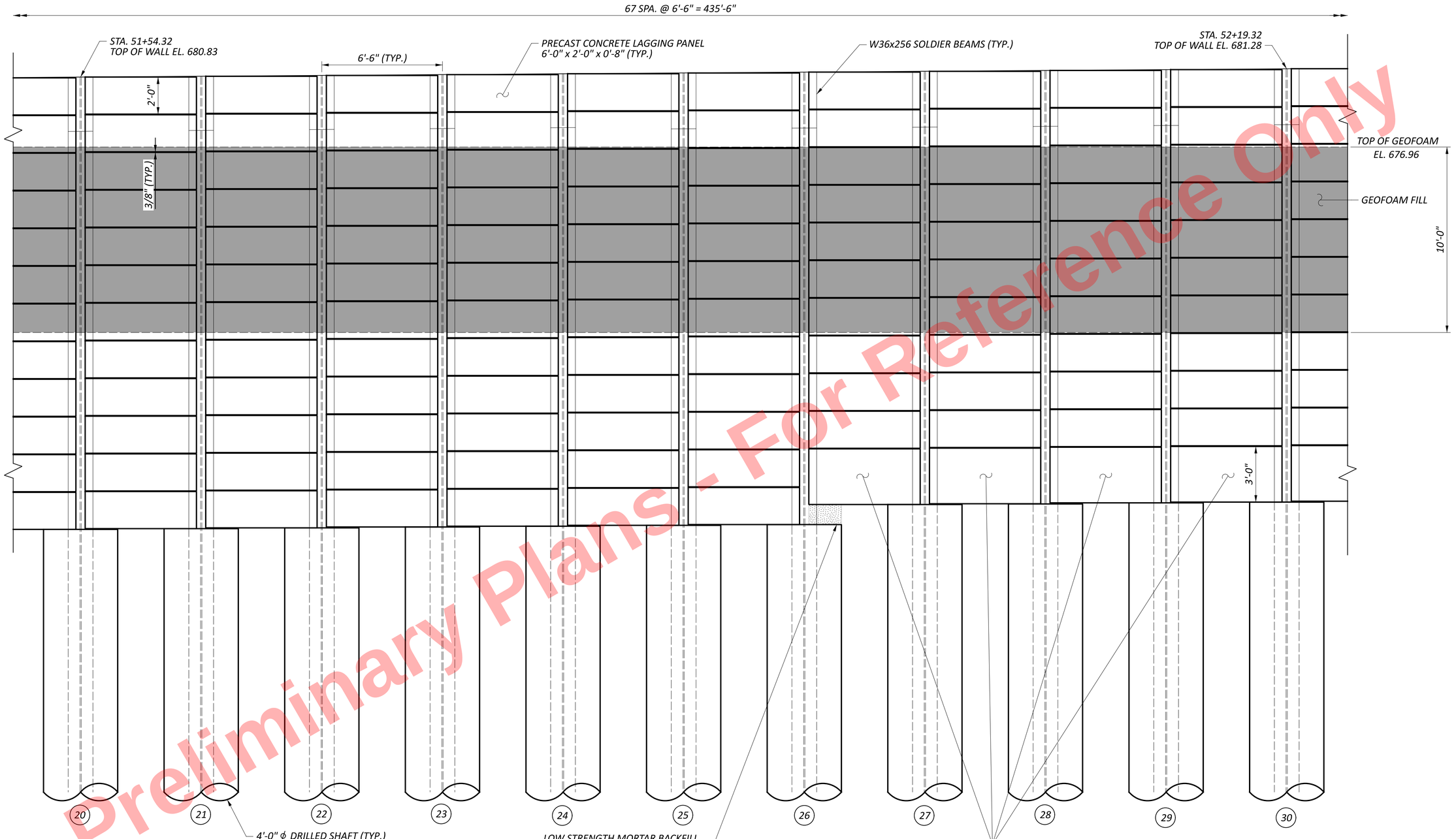
Preliminary Plans - For Reference Only

WALL ELEVATION
RETAINING WALL 5B

DESIGN AGENCY
TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	6
TOTAL	13
SHEET	P.965
TOTAL	P.1269

Preliminary Plans - For Reference Only



PARTIAL ELEVATION
(LOOKING AT BACK FACE OF WALL)

LEGEND:

(#) - DRILLED SHAFT NUMBER

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/13.
3. ALL LAGGING PANELS ARE 6'-0" X 2'-0 UNLESS NOTED OTHERWISE. FOR LAGGING DETAILS, SEE SHEET 13/13.

WALL ELEVATION
RETAINING WALL 5B

CUY-77-11.41 - PART 1

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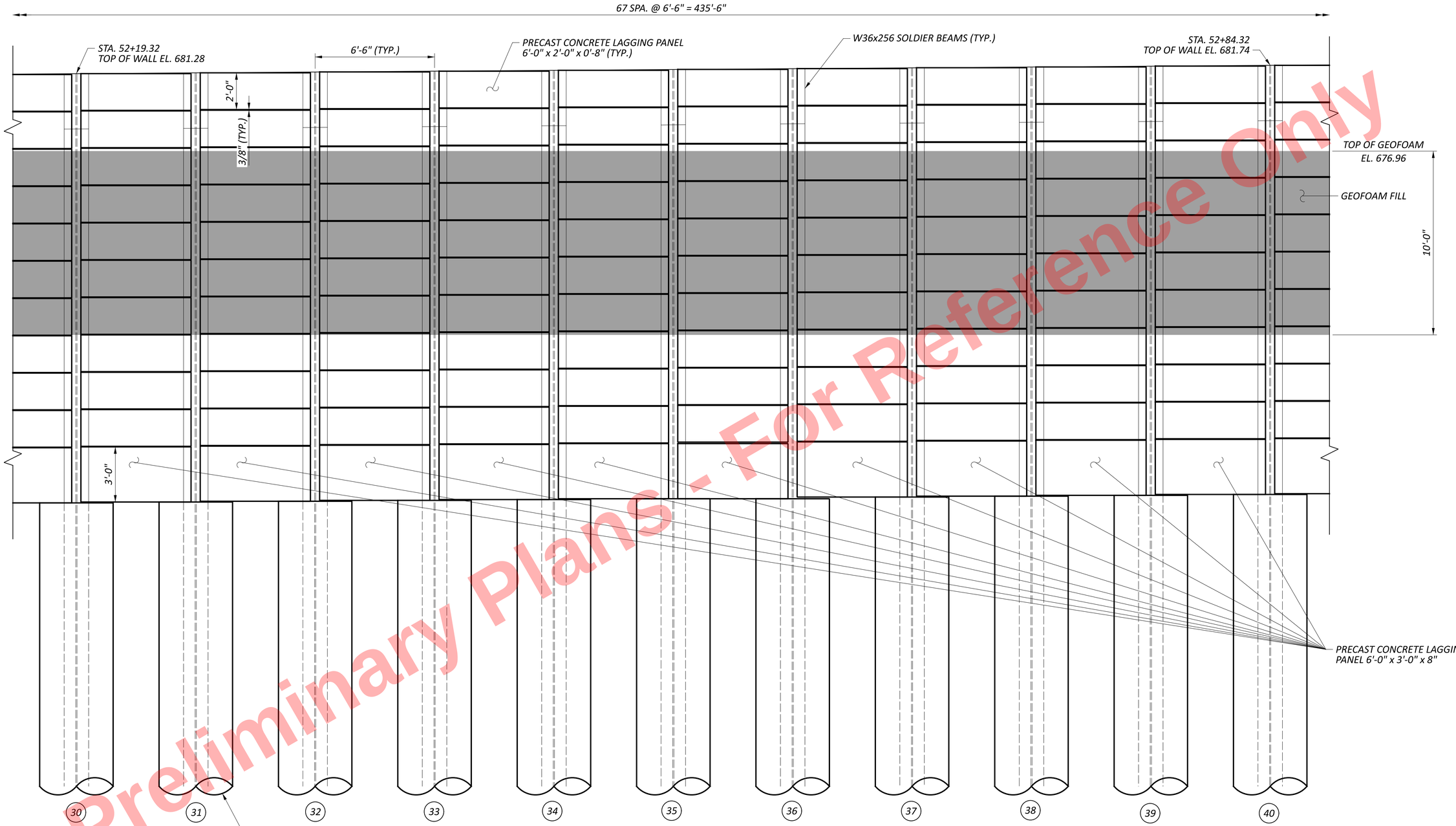
DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	7
TOTAL	13
SHEET	P.966
TOTAL	P.1269



Preliminary Plans - For Reference Only

PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

LEGEND:

(#) - DRILLED SHAFT NUMBER

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/13.
3. ALL LAGGING PANELS ARE 6'-0" X 2'-0 UNLESS NOTED OTHERWISE. FOR LAGGING DETAILS, SEE SHEET 13/13.

WALL ELEVATION
RETAINING WALL 5B

CUY-77-11.41 - PART 1

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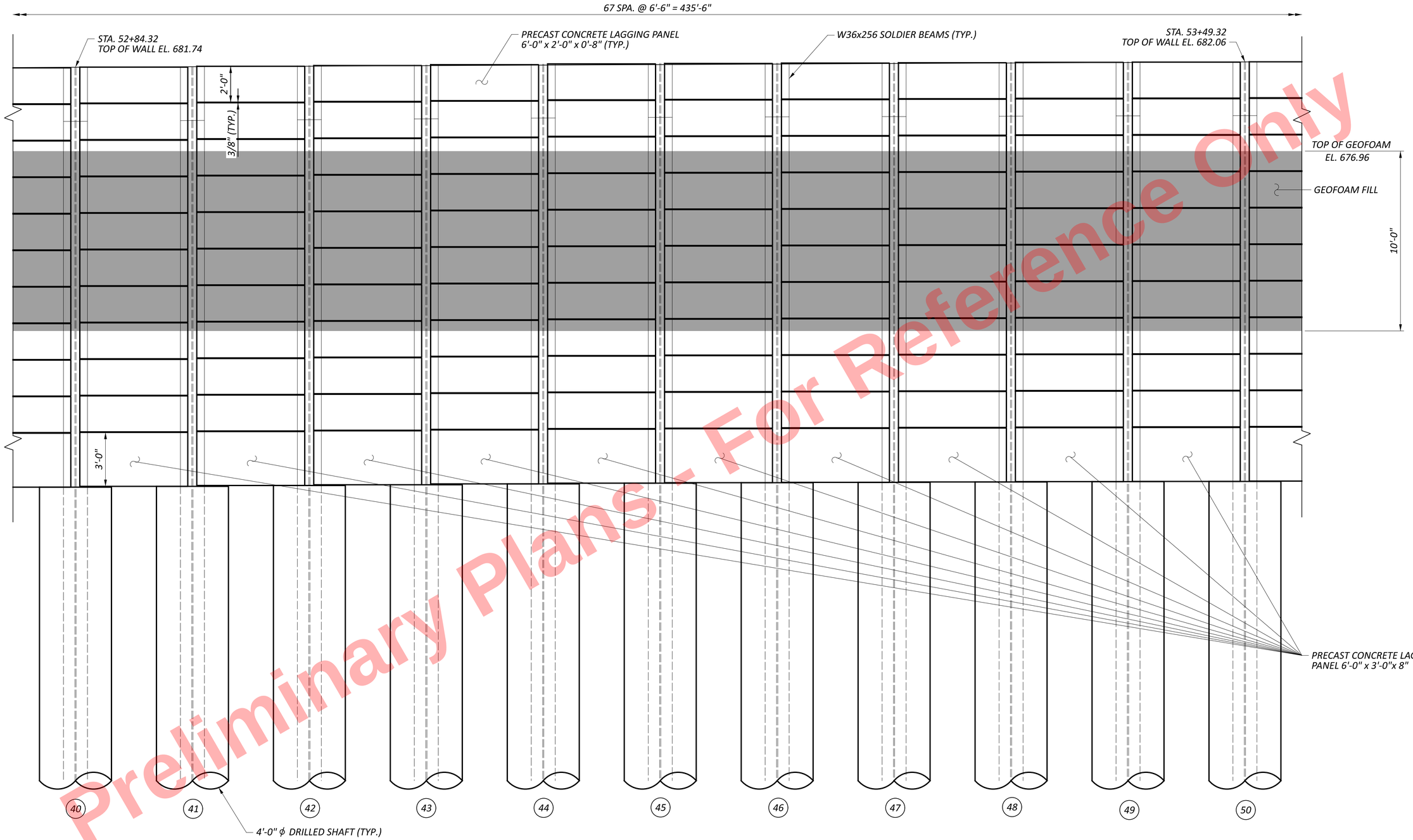
DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	8
TOTAL	13
SHEET	P.967
TOTAL	P.1269



PARTIAL ELEVATION
(LOOKING AT BACK FACE OF WALL)

LEGEND:

Ⓝ - DRILLED SHAFT NUMBER

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/13.
3. ALL LAGGING PANELS ARE 6'-0" X 2'-0 UNLESS NOTED OTHERWISE. FOR LAGGING DETAILS, SEE SHEET 13/13.

Preliminary Plans - For Reference Only

WALL ELEVATION
RETAINING WALL 5B

CUY-77-11.41 - PART 1

MODEL: Sheet Pile 5 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:46:20 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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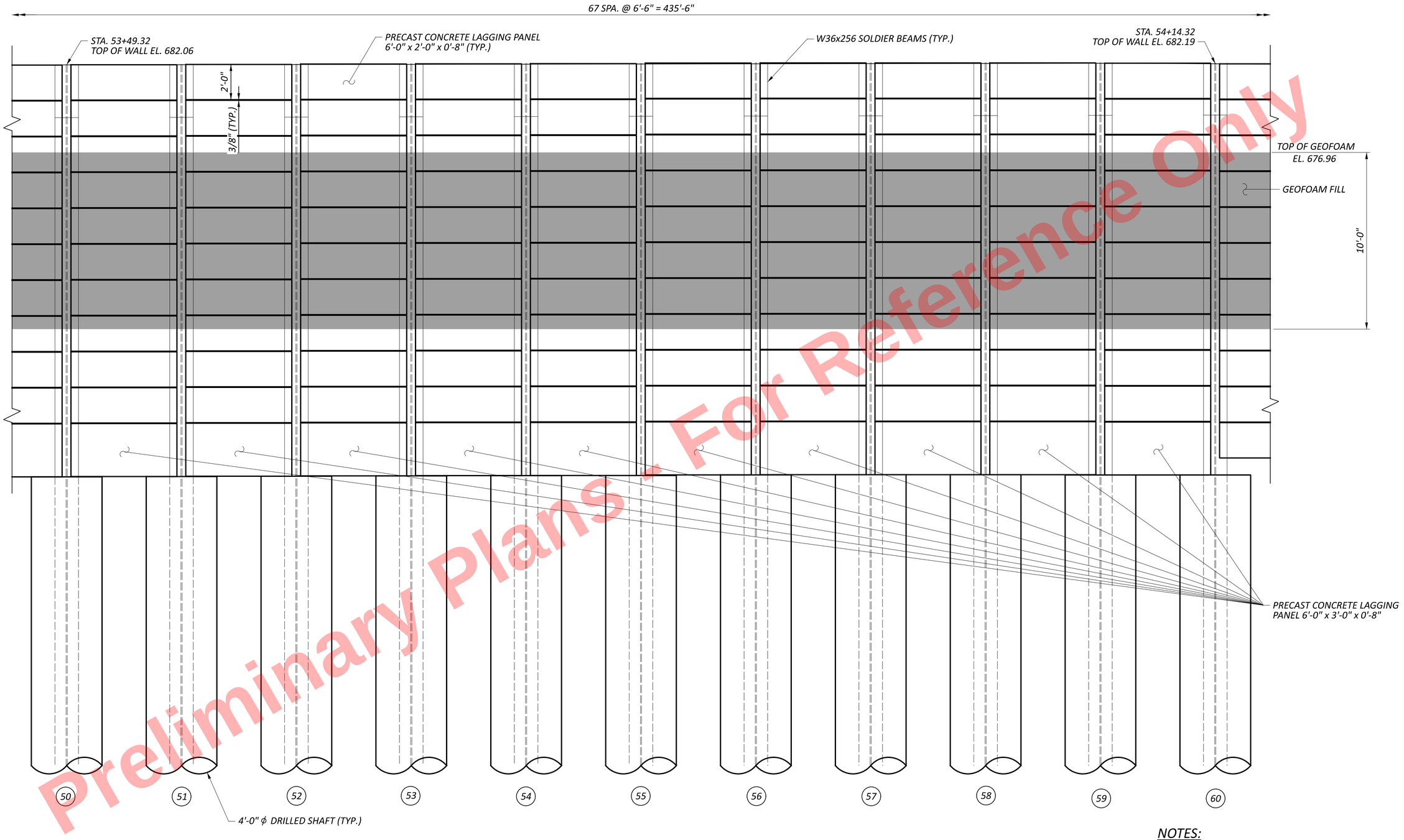
DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	9
TOTAL	13
SHEET	P.968
TOTAL	P.1269



Preliminary Plans - For Reference Only

PARTIAL ELEVATION
(LOOKING AT BACK FACE OF WALL)

LEGEND:

Ⓝ - DRILLED SHAFT NUMBER

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/13.
3. ALL LAGGING PANELS ARE 6'-0" X 2'-0 UNLESS NOTED OTHERWISE. FOR LAGGING DETAILS, SEE SHEET 13/13.

WALL ELEVATION
RETAINING WALL 5B

CUY-77-11.41 - PART 1

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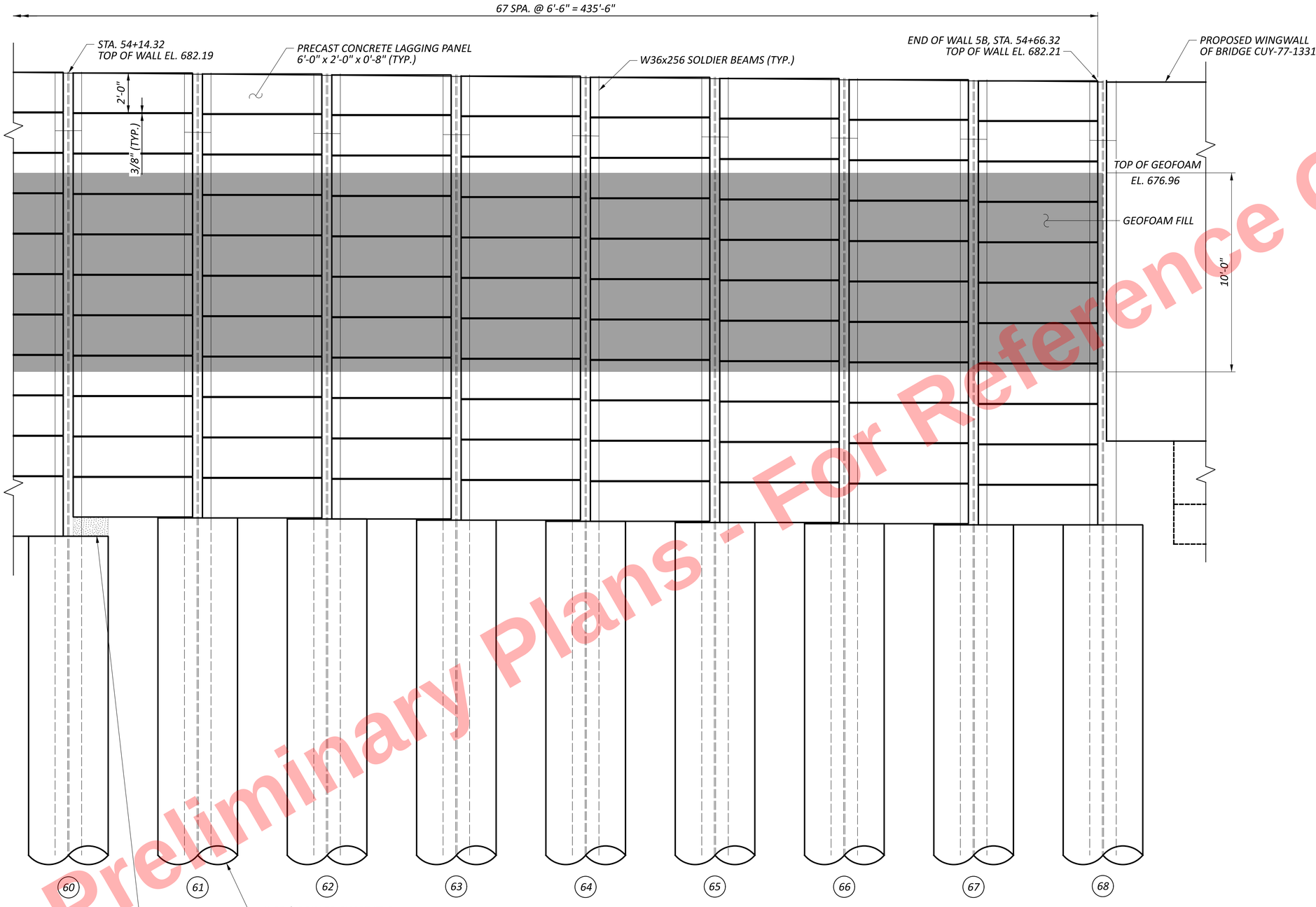
DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET / TOTAL	10 / 13
SHEET / TOTAL	P.969 / P.1269



PARTIAL ELEVATION
(LOOKING AT BACK FACE OF WALL)

LEGEND:

(#) - DRILLED SHAFT NUMBER

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/13.
3. ALL LAGGING PANELS ARE 6'-0" X 2'-0 UNLESS NOTED OTHERWISE. FOR LAGGING DETAILS, SEE SHEET 13/13.

Preliminary Plans - For Reference Only

WALL ELEVATION
RETAINING WALL 5B

DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET / TOTAL	11 / 13
SHEET / TOTAL	P.970 / P.1269

CUY-77-11.41 - PART 1

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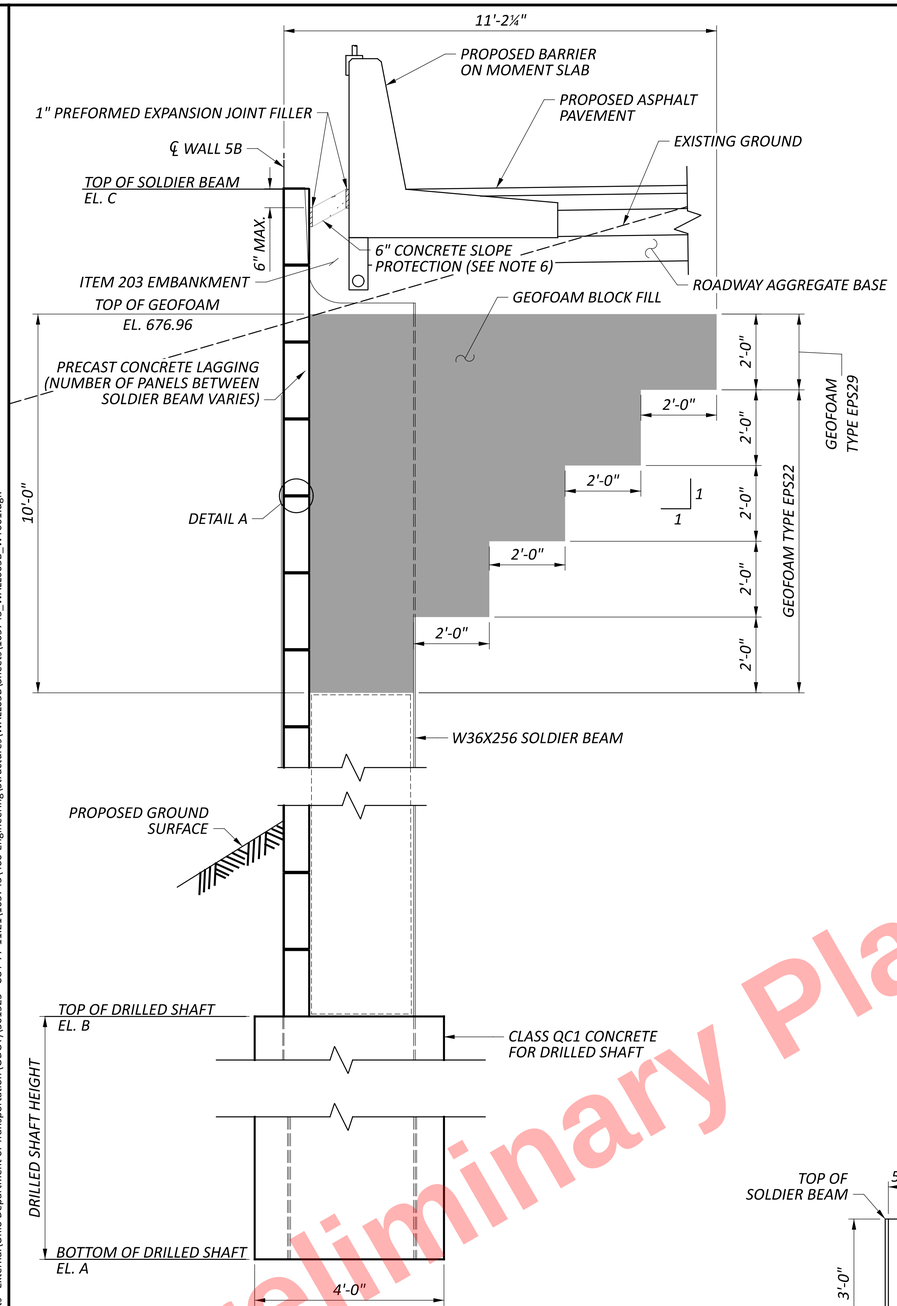
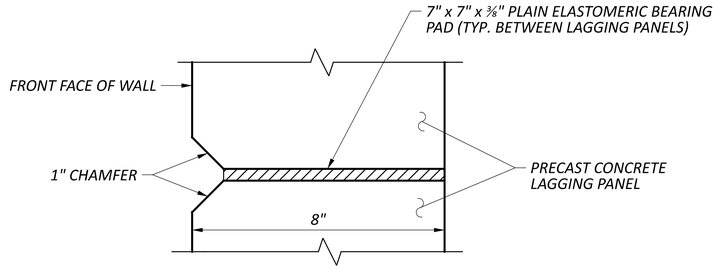
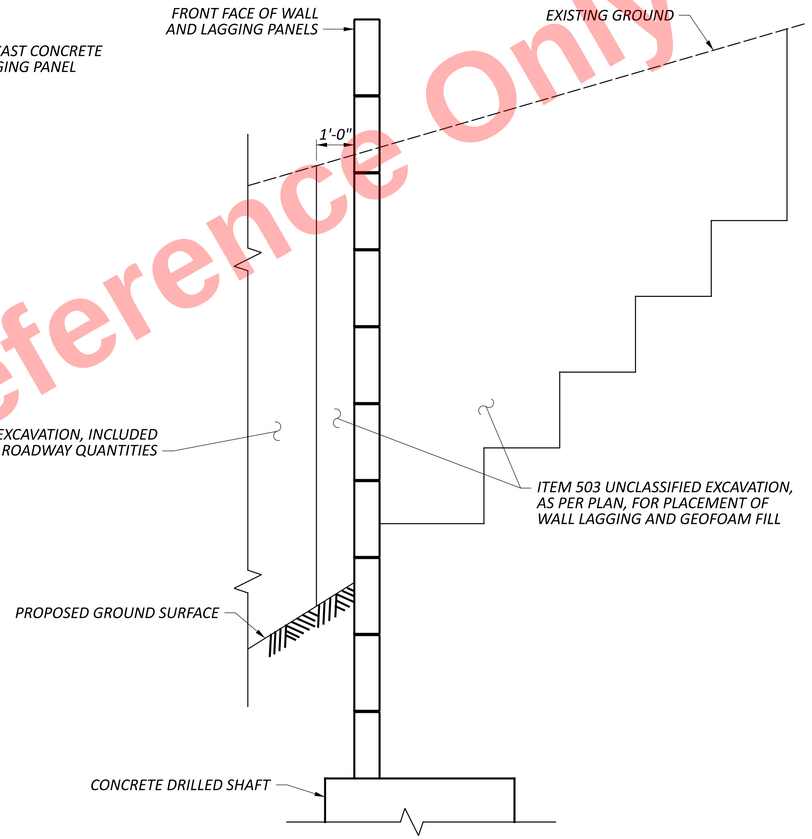


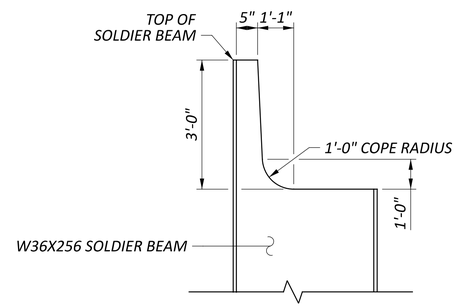
SECTION A-A



DETAIL A



EXCAVATION SCHEMATIC



SOLDIER BEAM COPING DETAIL

NOTES:

1. AT THE CONTRACTOR'S OPTION, THE SOLDIER BEAM SIZE MAY BE INCREASE AT NO ADDITIONAL COST TO THE DEPARTMENT. THE PROPOSED BEAM SIZE MUST HAVE A SECTION MODULUS EQUAL TO OR GREATER THAN THE BEAM SIZE SPECIFIED. IN ADDITION, THE PROPOSED BEAM MUST ALLOW AT LEAST 3 INCHES OF CLEARANCE BETWEEN THE FLANGES AND THE SIDE OF THE DRILLED SHAFT.
2. GEOFOAM BLOCKS APPROXIMATELY 2' X 2' AND 2' X 4' IN SIZE ARE SHOWN FOR ILLUSTRATION. THE CONTRACTOR MAY USE OTHER BLOCK SIZES BUT THE GEOFOAM PLACEMENT SHALL MEET THE LIMITS DIMENSIONED IN THE PLANS.
3. ALL PRECAST LAGGING PANELS SHALL BE SEATED ON TWO ELASTOMERIC BEARING PADS WITH ONE PLACED AT EACH END. THE COST FOR FABRICATION AND INSTALLATION OF THE BEARING PADS WILL BE CONSIDERED INCIDENTAL TO THE PLACEMENT OF PRECAST LAGGING.
4. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/13.
5. FOR ADDITIONAL LAGGING PANEL DETAILS, SEE SHEET 13/13.
6. WHERE THE GAP BETWEEN WALL LAGGING AND MOMENT SLAB IS LESS THAN 2", ONLY PREFORMED EXPANSION JOINT FILLER SHALL BE PLACED.
7. EMBANKMENT REMOVAL SHALL NOT PROCEED BELOW THE LOWEST ELEVATION OF GEOFOAM UNTIL EXCAVATION FOR THE GEOFOAM PLACEMENT IS COMPLETED BEHIND THE RETAINING WALL.
8. ANY REMOVAL OF THE MSE WALL REQUIRED FOR THE INSTALLATION OF WALL 5B WILL BE PAID FOR UNDER ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, BRIDGE NO. CUY-77-1331.

Preliminary Plans - For Reference Only

WALL SECTIONS AND DETAILS
RETAINING WALL 5B

CUY-77-11.41 - PART 1

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DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 12 TOTAL: 13
SHEET: P.971 TOTAL: P.1269

DRILLED SHAFT NUMBER	WALL 5B STATION	OFFSET	BOTT. OF SHAFT ELEVATION (EL. A)	TOP OF SHAFT ELEVATION (EL. B)	TOP OF SOLDIER BEAM ELEV. (EL. C)	LENGTH OF SOLDIER BEAM (FEET)	DRILLED SHAFT DIAMETER (INCHES)	SOLDIER BEAM SIZE
1	50+30.82	1.45 RT	612.56	652.56	679.97	67.41	48.00	W36X256
2	50+37.32	1.45 RT	612.56	652.56	680.02	67.46	48.00	W36X256
3	50+43.82	1.45 RT	612.61	652.61	680.06	67.45	48.00	W36X256
4	50+50.32	1.45 RT	612.65	652.65	680.11	67.46	48.00	W36X256
5	50+56.82	1.45 RT	612.70	652.70	680.15	67.45	48.00	W36X256
6	50+63.32	1.45 RT	613.74	653.74	680.20	66.46	48.00	W36X256
7	50+69.82	1.45 RT	613.79	653.79	680.24	66.45	48.00	W36X256
8	50+76.32	1.45 RT	613.83	653.83	680.29	66.46	48.00	W36X256
9	50+82.82	1.45 RT	613.88	653.88	680.33	66.45	48.00	W36X256
10	50+89.32	1.45 RT	613.92	653.92	680.38	66.46	48.00	W36X256
11	50+95.82	1.45 RT	613.97	653.97	680.42	66.45	48.00	W36X256
12	51+02.32	1.45 RT	614.01	654.01	680.47	66.46	48.00	W36X256
13	51+08.82	1.45 RT	615.09	655.09	680.51	65.42	48.00	W36X256
14	51+15.32	1.45 RT	615.13	655.13	680.56	65.43	48.00	W36X256
15	51+21.82	1.45 RT	615.18	655.18	680.60	65.42	48.00	W36X256
16	51+28.32	1.45 RT	615.22	655.22	680.65	65.43	48.00	W36X256
17	51+34.82	1.45 RT	615.27	655.27	680.70	65.43	48.00	W36X256
18	51+41.32	1.45 RT	615.32	655.32	680.74	65.42	48.00	W36X256
19	51+47.82	1.45 RT	616.36	656.36	680.79	64.43	48.00	W36X256
20	51+54.32	1.45 RT	616.41	656.41	680.83	64.42	48.00	W36X256
21	51+60.82	1.45 RT	616.45	656.45	680.88	64.43	48.00	W36X256
22	51+67.32	1.45 RT	616.50	656.50	680.92	64.42	48.00	W36X256
23	51+73.82	1.45 RT	616.54	656.54	680.97	64.43	48.00	W36X256
24	51+80.32	1.45 RT	616.59	656.59	681.01	64.42	48.00	W36X256
25	51+86.82	1.45 RT	616.63	656.63	681.06	64.43	48.00	W36X256
26	51+93.32	1.45 RT	616.68	656.68	681.10	64.42	48.00	W36X256
27	51+99.82	1.45 RT	617.75	657.75	681.15	63.40	48.00	W36X256
28	52+06.32	1.45 RT	617.80	657.80	681.19	63.39	48.00	W36X256
29	52+12.82	1.45 RT	617.84	657.84	681.24	63.40	48.00	W36X256
30	52+19.32	1.45 RT	617.89	657.89	681.28	63.39	48.00	W36X256
31	52+25.82	1.45 RT	617.93	657.93	681.33	63.40	48.00	W36X256
32	52+32.32	1.45 RT	617.98	657.98	681.37	63.39	48.00	W36X256
33	52+38.82	1.45 RT	618.02	658.02	681.42	63.40	48.00	W36X256
34	52+45.32	1.45 RT	618.07	658.07	681.47	63.40	48.00	W36X256
35	52+51.82	1.45 RT	618.12	658.12	681.51	63.39	48.00	W36X256
36	52+58.32	1.45 RT	618.16	658.16	681.56	63.40	48.00	W36X256
37	52+64.82	1.45 RT	618.21	658.21	681.60	63.39	48.00	W36X256
38	52+71.32	1.45 RT	618.25	658.25	681.65	63.40	48.00	W36X256
39	52+77.82	1.45 RT	618.30	658.30	681.69	63.39	48.00	W36X256
40	52+84.32	1.45 RT	618.34	658.34	681.74	63.40	48.00	W36X256
41	52+90.82	1.45 RT	618.39	658.39	681.78	63.39	48.00	W36X256
42	52+97.32	1.45 RT	618.43	658.43	681.83	63.40	48.00	W36X256
43	53+03.82	1.45 RT	618.48	658.48	681.87	63.39	48.00	W36X256
44	53+10.32	1.45 RT	618.52	658.52	681.92	63.40	48.00	W36X256
45	53+16.82	1.45 RT	618.57	658.57	681.96	63.39	48.00	W36X256
46	53+23.32	1.45 RT	618.61	658.61	681.99	63.38	48.00	W36X256
47	53+29.82	1.45 RT	618.64	658.64	682.00	63.36	48.00	W36X256
48	53+36.32	1.45 RT	618.65	658.65	682.02	63.37	48.00	W36X256
49	53+42.82	1.45 RT	618.67	658.67	682.04	63.37	48.00	W36X256
50	53+49.32	1.45 RT	618.69	658.69	682.06	63.37	48.00	W36X256
51	53+55.82	1.45 RT	618.71	658.71	682.07	63.36	48.00	W36X256
52	53+62.32	1.45 RT	618.72	658.72	682.09	63.37	48.00	W36X256
53	53+68.82	1.45 RT	618.74	658.74	682.11	63.37	48.00	W36X256
54	53+75.32	1.45 RT	618.76	658.76	682.12	63.36	48.00	W36X256
55	53+81.82	1.45 RT	618.77	658.77	682.14	63.37	48.00	W36X256
56	53+88.32	1.45 RT	618.79	658.79	682.15	63.36	48.00	W36X256
57	53+94.82	1.45 RT	618.80	658.80	682.16	63.36	48.00	W36X256
58	54+01.32	1.45 RT	618.81	658.81	682.17	63.36	48.00	W36X256
59	54+07.82	1.45 RT	618.82	658.82	682.18	63.36	48.00	W36X256
60	54+14.32	1.45 RT	618.83	658.83	682.19	63.36	48.00	W36X256
61	54+20.82	1.45 RT	619.84	659.84	682.20	62.36	48.00	W36X256
62	54+27.32	1.45 RT	619.85	659.85	682.20	62.35	48.00	W36X256
63	54+33.82	1.45 RT	619.85	659.85	682.21	62.36	48.00	W36X256
64	54+40.32	1.45 RT	619.86	659.86	682.21	62.35	48.00	W36X256
65	54+46.82	1.45 RT	619.86	659.86	682.21	62.35	48.00	W36X256
66	54+53.32	1.45 RT	619.86	659.86	682.21	62.35	48.00	W36X256
67	54+59.82	1.45 RT	619.86	659.86	682.21	62.35	48.00	W36X256
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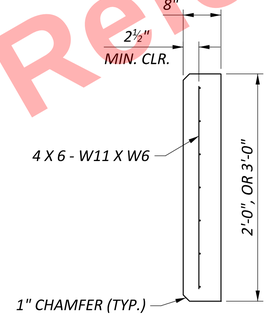
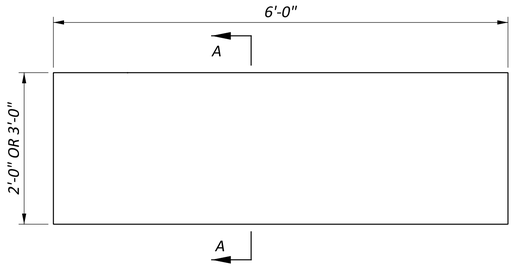


SECTION A-A



LAGGING PANEL ELEVATIONS

NOTES:

1. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 4/13.
2. FOR WALL ELEVATIONS, SEE SHEETS 5/13 THRU 11/13.
3. FOR WALL SECTIONS AND SOLDIER BEAM DETAILS, SEE SHEET 12/13.

Preliminary Plans - For Reference Only

LAGGING PANEL DETAILS AND SOLDIER PILE DIMENSION TABLE
RETAINING WALL 5B

DESIGN AGENCY TRC

DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 13 | TOTAL 13

SHEET P.972 | TOTAL P.1269

CUY-77-11.41 - PART 1

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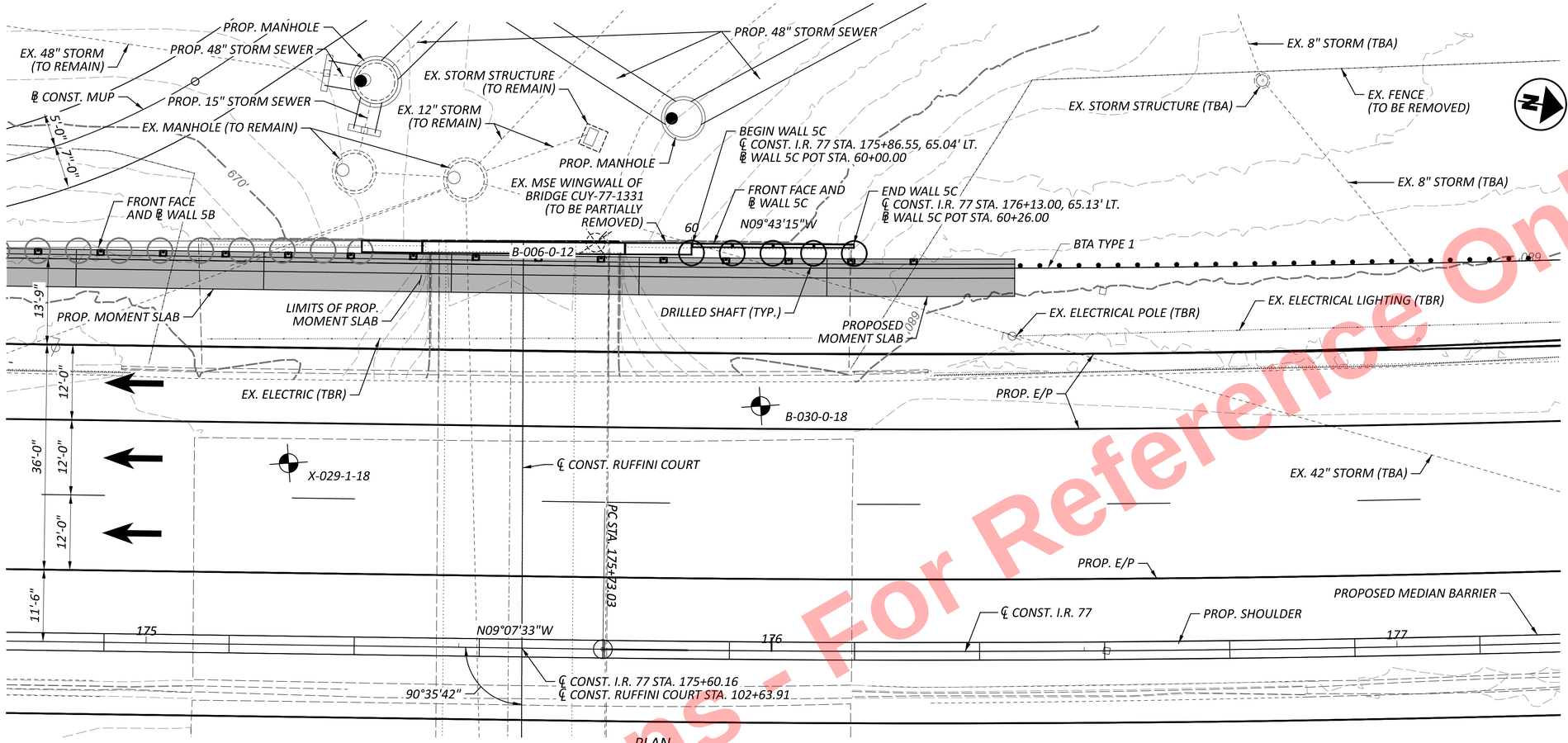
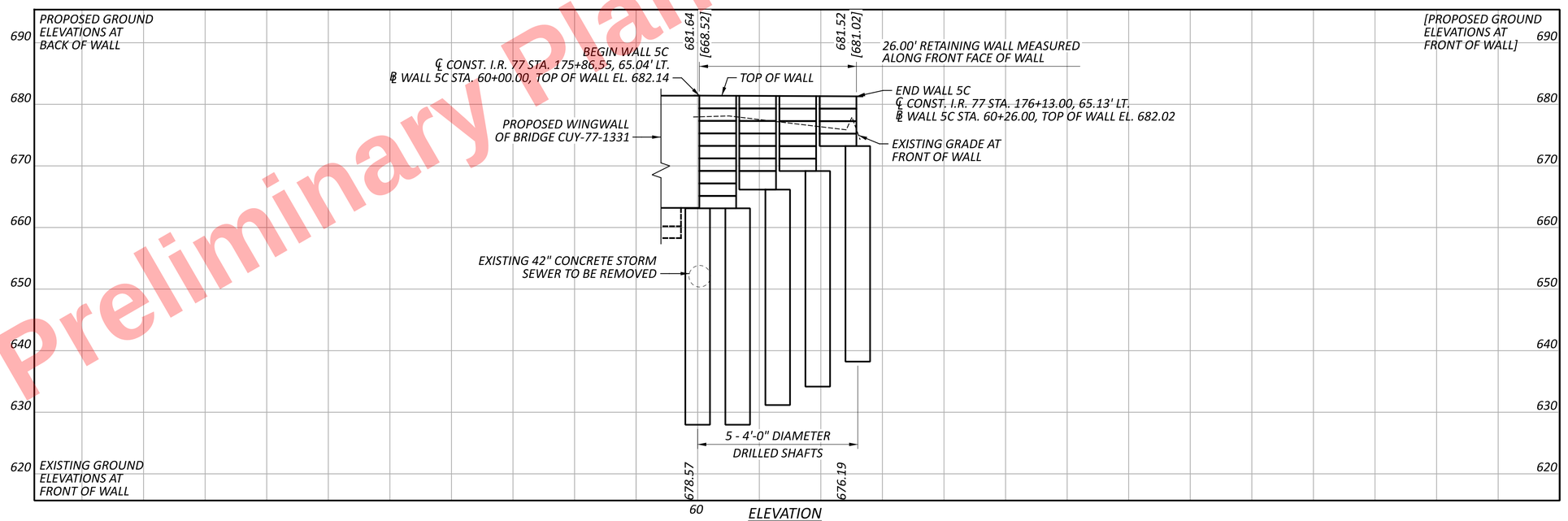
Preliminary Plans - For Reference Only



PLAN



ELEVATION
(STATIONING ALONG ℄ WALL 5C)

CURVE DATA I.R. 77

P.I. = STA. 179+84.25
Δ = 12°17'21" LT.
Dc = 01°30'00"
R = 3,819.72'
T = 411.22'
L = 819.28'
E = 22.07'

LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION
- HISTORIC SOIL BORING

NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A, 1B, AND 1C.

SITE PLAN
RETAINING WALL 5C

DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 1 TOTAL: 4
SHEET: P.973 TOTAL: P.1269

CUY-77-11.41 - PART 1

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pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05C\Sheets\105743_WALL05C_WP001.dgn

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO THE 10th EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN PARAMETERS:

LIVE LOAD SURCHARGE = 250 PSF (2' DEPTH OF SOIL OVERBURDEN)

DESIGN DATA:

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

EPOXY COATED WELDED WIRE REINFORCEMENT - YIELD STRENGTH 70 KSI (PRECAST LAGGING)

STEEL SOLDIER PILES - ASTM A572 - YIELD STRENGTH 50 KSI

ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W36X194

THIS WORK CONSISTS OF FURNISHING AND PLACING STEEL SOLDIER PILES INTO DRILLED HOLES. FURNISH SOLDIER PILES CONSISTING OF STRUCTURAL STEEL MEMBERS THAT MEET THE PLAN REQUIREMENTS AND CONFORM TO ASTM A572, GRADE 50. DO NOT FIELD WELD OR SPLICE STEEL SOLDIER PILES. THE DEPARTMENT WILL MEASURE SOLDIER PILES ALONG THE AXIS OF THE SOLDIER PILES FROM THE TOP OF WALL ELEVATION TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER. THE DEPARTMENT WILL PAY FOR SOLDIER PILES AT THE CONTRACT UNIT PRICE PER FOOT FOR ITEM 507, STEEL PILES, MISC.: SOLDIER PILES

ALL SURFACES OF SOLDIER PILES SHALL BE SHOP PAINTED WITH A PRIME COAT FROM A DEPTH OF 3 FEET BELOW TOP OF DRILLED SHAFT TO THE TOP OF PILE. AFTER ALL LAGGING PANELS ARE INSTALLED, THE EXPOSED FLANGE SHALL BE PAINTED WITH A FINISH COAT THAT HAS A COLOR SIMILAR TO THE SEALANT ON THE CONCRETE LAGGING. ALL LABOR AND MATERIALS REQUIRED FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO PLACEMENT OF THE STEEL SOLDIER PILES, W36X194.

ITEM SPECIAL - RETAINING WALL, PRECAST CONCRETE LAGGING:

THIS WORK CONSISTS OF FURNISHING AND PLACING PRECAST REINFORCED CONCRETE PANELS BETWEEN THE SOLDIER PILES TO FUNCTION AS LAGGING FOR THE RETAINING WALL. PROVIDE PRECAST CONCRETE LAGGING FROM A PRECAST CONCRETE MANUFACTURER CERTIFIED ACCORDING TO SUPPLEMENT 1073. PROVIDE CLASS QC 1 CONCRETE ACCORDING TO C&MS 499. PROVIDE EPOXY COATED REINFORCING STEEL ACCORDING TO C&MS 709.00. IN LIEU OF EPOXY COATING, A CORROSION INHIBITING CONCRETE ADMIXTURE MAY BE USED AT THE SPECIFIED DOSAGE RATE. A QUALIFIED PRODUCT LIST OF CORROSION INHIBITING ADMIXTURES IS ON FILE AT THE LABORATORY. MANUFACTURERS SHOULD RECOGNIZE THAT THE CORROSION INHIBITOR MAY AFFECT THE STRENGTH, ENTRAINED AIR CONTENT, WORKABILITY, ETC. OF THEIR CONCRETE MIXES. THE MANUFACTURER'S CHOICE TO USE ONE OF THESE CORROSION INHIBITORS DOES NOT ALLEVIATE MEETING ALL DESIGN REQUIREMENTS. DO NOT ALLOW THE DIMENSIONS OF THE LAGGING OR LOCATION OF THE REINFORCING STEEL TO VARY BY MORE THAN 1/4-INCH. CAST THREADED INSERTS INTO THE TOP OF EACH PANEL FOR LIFTING AND PLACING.

FILL ALL CAVITIES PRODUCED BY FORM TIES AND OTHER SINGLE DEFECTS OR DEFECTED AREAS AND WITH A PREQUALIFIED TROWELABLE MORTAR IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 843.02 AND 843.06. LIKEWISE FILL CAVITIES FOR LIFTING INSERTS IN THE TOP ROW OF PRECAST CONCRETE LAGGING PANELS. PROVIDE A BROOM/BRUSH FINISH TO ALL TROWELABLE MORTAR PATCHES. CURE THE TROWELABLE MORTAR ACCORDING TO SUPPLEMENTAL SPECIFICATION 843.07. AIR DRY FOR AT LEAST 10 DAYS AFTER COMPLETION OF THE MANUFACTURER'S RECOMMENDED CURE TIME FOR TROWELABLE MORTAR. BRUSH ABRASIVE BLAST, FOLLOWED BY AIR BROOMING OR POWER SWEEPING, TO REMOVE DUST AND SAND FROM THE SURFACE AND OPENED PORES.

FINISH THE FACES OF THE PRECAST CONCRETE LAGGING PANELS THAT WILL NOT BE EXPOSED TO A UNIFORM SURFACE, FREE OF OPEN POCKETS OF AGGREGATE. FINISH THE EXPOSED FACE OF THE PANELS TO A SMOOTH SURFACE. SEAL THE FRONT (EXPOSED) FACE, SIDES, TOP, BOTTOM, AND 3" MINIMUM OF THE BACK FACE OF THE CONCRETE PANEL WITH ITEM 512, SEALING OF CONCRETE SURFACES (EPOXY-URETHANE). THE COLOR OF THE URETHANE SHALL BE FEDERAL COLOR NUMBER 17778 (LIGHT NEUTRAL). COST OF SEALING SHALL BE INCIDENTAL AND INCLUDED WITH THE PRECAST CONCRETE LAGGING PANELS FOR PAYMENT.

PERMANENTLY MARK EACH PRECAST CONCRETE LAGGING PANEL TO INDICATE WHICH FACE WILL BE PLACED AGAINST THE SOIL. PLACE THE PANEL BETWEEN THE FLANGES OF THE SOLDIER PILES AND BEARING AGAINST THE FLANGES ON THE EXPOSED SIDE OF THE WALL SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST ONE INCH MORE THAN THE CONCRETE COVER OVER THE REINFORCING STEEL AT BOTH ENDS OF THE LAGGING.

HANDLE, STORE AND SHIP THE PRECAST CONCRETE LAGGING PANELS TO AVOID CHIPPING, CRACKING AND FRACTURING THE PANELS. SUPPORT THE PANELS ON FIRM BLOCKING WHILE STORING AND SHIPPING. DO NOT SHIP PANELS UNTIL CONCRETE HAS ATTAINED A MINIMUM 3000 PSI COMPRESSIVE STRENGTH. SUBMIT SHIPMENT DOCUMENTATION TO THE ENGINEER AS THE PANELS ARE DELIVERED TO THE PROJECT, INCLUDING THE PRECASTER'S RECORD OF FINAL INSPECTION, THE MEASUREMENTS AND TOLERANCES, STRENGTH, AND DIMENSIONS OF EACH PANEL, ALONG WITH THE TE-24 SHIPPING DOCUMENT.

INSPECT ALL PRECAST CONCRETE LAGGING PANELS AND REJECT PANELS HAVING ANY OF THE FOLLOWING:

1. DEFECTS THAT INDICATE IMPERFECT MOLDING.
2. DEFECTS THAT INDICATE HONEYCOMBED OR OPEN TEXTURE CONCRETE.
3. DEFECTS IN THE PHYSICAL CHARACTERISTICS OF THE CONCRETE, OR DAMAGE TO THE SEALING OF CONCRETE SURFACE TREATMENT OR TO AESTHETIC SURFACE TREATMENTS.
4. CONCRETE CHIPS OR SPALLS THAT ARE LARGER THAN 4 INCHES WIDE OR 2 INCHES DEEP. REPAIR ALL CHIPS AND SPALLS THAT ARE SMALLER.
5. STAINED FORM FACES DUE TO FORM OIL, CURING, OR OTHER CONTAMINANTS.
6. SIGNS OF AGGREGATE SEGREGATION.
7. CRACKS WIDER THAN 0.01 INCHES, PENETRATING MORE THAN 1 INCH OR LONGER THAN 20 PERCENT OF THE LENGTH OF THE FACE CONTAINING THE CRACK. REPAIR ALL CRACKS THAT ARE SMALLER.
8. PANELS THAT DO NOT MEET THE SPECIFIED DIMENSIONAL TOLERANCES.
9. UNUSABLE LIFTING INSERTS.
10. EXPOSED REINFORCING STEEL.
11. INSUFFICIENT CONCRETE COMPRESSIVE STRENGTH.

EITHER REPLACE DAMAGED PRECAST CONCRETE LAGGING PANELS OR DOCUMENT THE DAMAGE AND PROPOSE TO THE ENGINEER A REPAIR METHOD FOR THE DAMAGED PANEL; PERFORM REPAIRS WITH THE ACCEPTANCE OF THE ENGINEER. PROVIDE ACCEPTABLE REPLACEMENT PANELS FOR ANY THAT ARE REJECTED. WHEN INSTALLING THE PRECAST CONCRETE LAGGING PANELS, PLACE HARDWOOD WEDGES NEAR THE TOP AND BOTTOM N EACH SIDE TO HOLD THE LAGGING PANELS AGAINST THE FRONT INSIDE FLANGE OF THE STEEL PILES.

PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIAL REQUIRED TO FABRICATE, TRANSPORT, AND INSTALL THE PRECAST CONCRETE LAGGING PANELS SHALL BE MADE AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR ITEM 530 SPECIAL - RETAINING WALL, PRECAST CONCRETE LAGGING.

ITEM 524 - DRILLED SHAFTS, 48" DIAMETER ABOVE BEDROCK, AS PER PLAN

THIS WORK CONSISTS OF FURNISHING AND INSTALLING DRILLED SHAFTS FOR SOLDIER PILE AND LAGGING WALLS. THE DRILLED SHAFTS ARE REINFORCED WITH SOLDIER PILES INSTEAD OF REINFORCING STEEL CAGES. THE SOLDIER PILES EXTEND ABOVE THE TOP OF THE DRILLED SHAFT. FURNISH AND INSTALL THE DRILLED SHAFTS ACCORDING TO C&MS 524 EXCEPT AS MODIFIED AND SUPPLEMENTED BELOW.

EXCAVATE THE HOLE FOR THE DRILLED SHAFT WITHIN 3 INCHES OF THE PLAN LOCATION. PLACE THE SOLDIER PILE WITHIN THE HOLE SO IT IS VERTICAL AND NOT INCLINED MORE THAN 1 INCH BETWEEN TOP AND BOTTOM. PLACE THE SOLDIER PILE SO THAT THE FLANGES ARE PARALLEL TO THE CENTERLINE OF THE ROW OF DRILLED SHAFTS. DO NOT ALLOW THE ORIENTATION OF THE FLANGES TO VARY BY MORE THAN 10 DEGREES. SUPPORT THE SOLDIER PILE SO THAT IT DOES NOT MOVE DURING CONCRETE PLACEMENT.

USE CLASS QC1 CONCRETE ACCORDING TO C&MS 511. PLACE CONCRETE TO THE ELEVATION FOR THE TOP OF THE DRILLED SHAFT. THE CONTRACTOR MAY PLACE CONCRETE USING THE FREE FALL METHOD PROVIDED THE DEPTH OF WATER IS LESS THAN 6 INCHES AND THE CONCRETE FALLS WITHOUT STRIKING THE SIDES OF THE HOLE. POURING CONCRETE ALONG THE WEB OF THE SOLDIER PILE IS ACCEPTABLE.

CHECK THE POSITION, THE VERTICAL ALIGNMENT AND ORIENTATION OF THE SOLDIER PILE IMMEDIATELY AFTER CONCRETE PLACEMENT. MAKE CORRECTIONS AS NECESSARY TO MEET THE ABOVE TOLERANCES.

IF REQUIRED TO MAINTAIN HOLE STABILITY, FILL THE HOLE ABOVE THE BOTTOM OF THE LAGGING TO THE EXISTING GROUND SURFACE WITH ITEM 613 LOW STRENGTH MORTAR BACKFILL (LSM).
REMOVE CONCRETE AND LSM AS NECESSARY FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE THE LAGGING. PLACE THE LAGGING SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 2 INCHES AT BOTH ENDS OF THE LAGGING. WAIT AT LEAST 12 HOURS AFTER PLACING CONCRETE IN THE DRILLED SHAFTS BEFORE PLACING LAGGING.

SEQUENCE OF INSTALLATION: INSTALL THE DRILLED SHAFTS IN A SEQUENCE SUCH THAT NO DRILLED SHAFT IS INSTALLED ADJACENT TO EITHER AN OPEN DRILLED SHAFT EXCAVATION OR A DRILLED SHAFT IN WHICH THE CONCRETE HAS LESS THAN A 48 HOUR CURE. INSTALLING THE SHAFTS IN AN ALTERNATING SEQUENCE OR ANY OTHER SEQUENCE THAT MEETS THIS CRITERIA IS PERMISSIBLE.

PROTECTION OF UNATTENDED OPEN SHAFTS: COVER UNATTENDED OPEN SHAFTS. USE TEMPORARY COVERS OF ADEQUATE STRENGTH TO PREVENT A PERSON OR ANIMAL FROM FALLING IN. LEAVE NO DRILLED SHAFT EXCAVATION UN-POURED OVERNIGHT.

THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHOD USED TO CONSTRUCT THE DRILLED SHAFTS AND PLACE LAGGING. ANY TEMPORARY GRADING, EXCAVATION, EMBANKMENT, AGGREGATE, DRAINAGE, SHEETING, ETC. NEEDED TO COMPLETE THE WORK IS INCLUDED IN THE BID PRICE FOR THE DRILLED SHAFTS. THE COST OF ANY EXCAVATION AND SUBSEQUENT REPLACEMENT OF EMBANKMENT (PER ITEM 203 EMBANKMENT) IS INCLUDED IN THE VARIOUS BID ITEMS FOR THE DRILLED SHAFTS AND LAGGING, UNLESS SEPARATELY ITEMIZED. NO SEPARATE PAYMENT WILL BE MADE.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE DRILLED SHAFTS ABOVE BEDROCK, AS PER PLAN, ALONG THE AXIS OF THE DRILLED SHAFT FROM THE EXISTING GROUND SURFACE TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER.

PAYMENT IS FULL COMPENSATION FOR CONSTRUCTING THE DRILLED SHAFTS, INCLUDING FURNISHING AND PLACING CONCRETE AND LSM, REMOVAL OF CONCRETE OR LSM FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE LAGGING.

ABBREVIATIONS:

ABUT. - ABUTMENT
APPR. - APPROACH
B - BOTTOM
℄ - BASELINE
B.F. - BACK FACE
BM - BENCHMARK
BOT. OR BTM. - BOTTOM
℄ - CENTERLINE
C/C - CENTER TO CENTER
C.I.P. - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEAR
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONC. - CONCRETE
CONST. - CONSTRUCTION
DIA. - DIAMETER
DIM. - DIMENSION
DWG. - DRAWING
E.F. - EACH FACE
EL. OR ELEV. - ELEVATION
EQ. - EQUAL
EST. - ESTIMATED
EX. - EXISTING
F/F - FACE TO FACE
F.F. - FRONT FACE
FT. - FOOT OR FEET
FTG. - FOOTING
FWD. - FORWARD
IN. - INCH
JT. - JOINT
LT. - LEFT
MAX. - MAXIMUM
MIN. - MINIMUM
MISC. - MISCELLANEOUS
MSE - MECHANICALLY STABILIZED EARTH
N - NORTH
NB - NORTHBOUND
NO. - NUMBER
N.P.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE
OHWM - ORDINARY HIGH WATER MARK
O/O - OUT TO OUT
P.C.P.P. - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER
PROP. - PROPOSED
PSF - POUNDS PER SQUARE FOOT
S - SOUTH
SB - SOUTHBOUND
SER. - SERIES
SHLDR - SHOULDER
SPA. - SPACE OR SPACES
STA. - STATION
STD. - STANDARD
STR - STRAIGHT
T - TOP
T&B - TOP & BOTTOM
TBR - TO BE REMOVED
TEMP. - TEMPORARY
TYP. - TYPICAL
U.N.O. - UNLESS NOTED OTHERWISE
VAR. - VARIES
WWR - WELDED WIRE REINFORCEMENT

ESTIMATED QUANTITIES (WALL 5C)

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
507	00400	248	FT	STEEL PILES, MISC.: SOLDIER PILES, W36x194	2
516	13600	26	SF	1" PREFORMED EXPANSION JOINT FILLER	
524	94903	175	FT	DRILLED SHAFTS, 48" DIAMETER ABOVE BEDROCK, AS PER PLAN	2
SPECIAL	53051010	318	SF	RETAINING WALL, PRECAST CONCRETE LAGGING	2, 4
601	21000	5	SY	CONCRETE SLOPE PROTECTION	

Preliminary Plans - Not for Construction
Reference Only

DESIGN AGENCY TRC
DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 2 TOTAL 4
SHEET P.974 TOTAL P.1269

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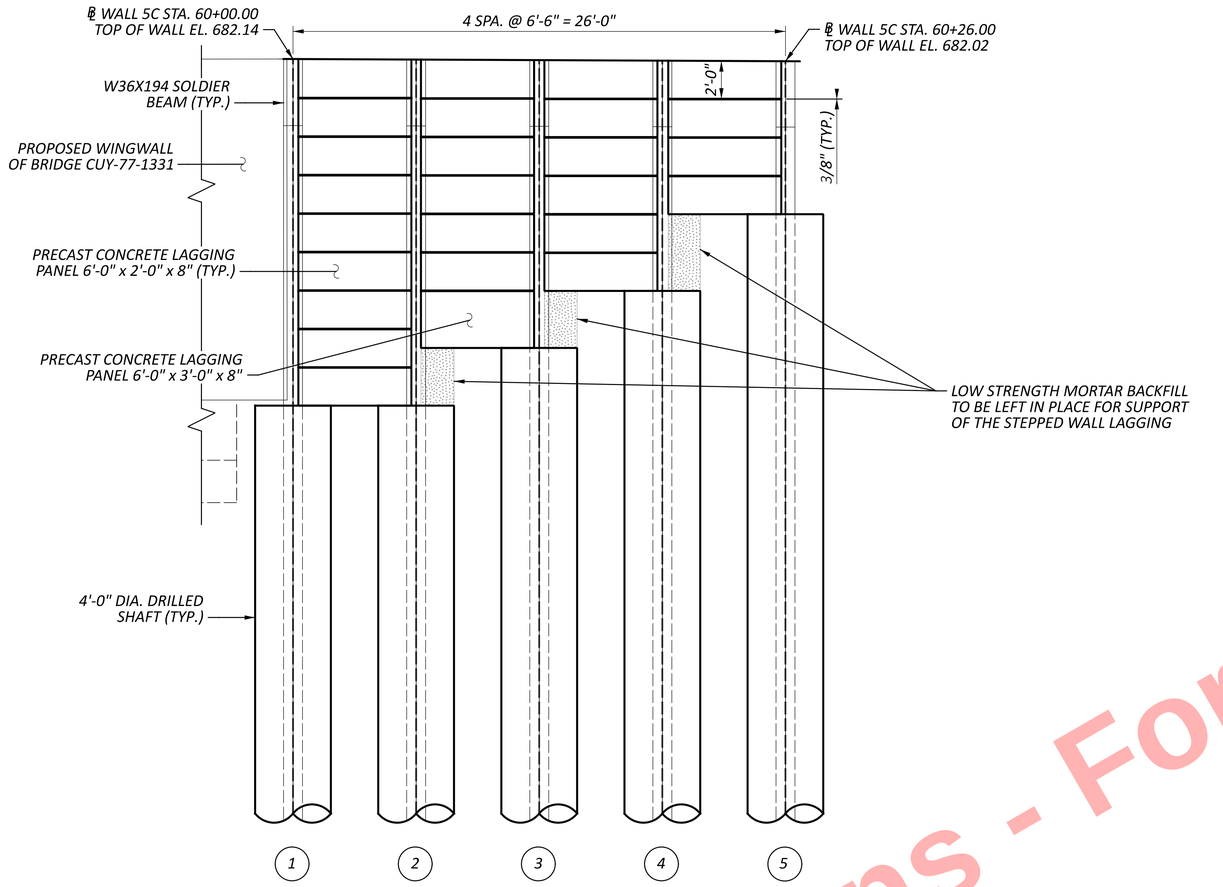
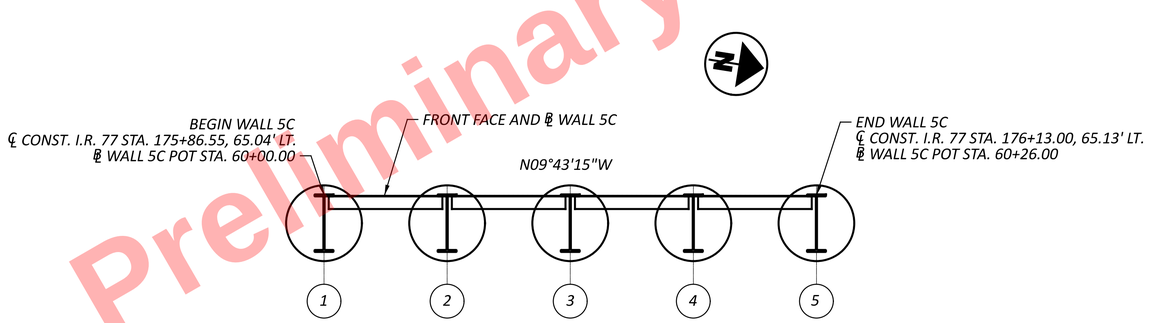
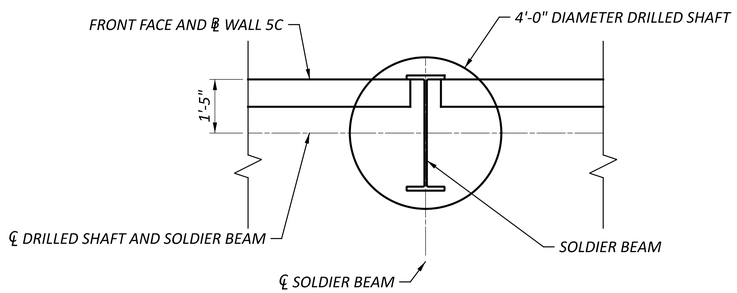


ELEVATION

(LOOKING AT BACK FACE OF WALL)



GENERAL PLAN



DRILLED SHAFT LOCATION DETAIL

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR WALL SECTIONS AND SOLDIER BEAM DETAILS, SEE SHEET 4/4.
3. ALL LAGGING PANELS ARE 6'-0" x 2'-0" UNLESS NOTED OTHERWISE. FOR LAGGING DETAILS, SEE SHEET 4/4.

LEGEND:

I - DENOTES DRILLED SHAFT WITH SOLDIER BEAM

- DRILLED SHAFT NUMBER

Preliminary Plans - For Reference Only

PILE LAYOUT AND WALL ELEVATION
RETAINING WALL 5C

CUY-77-11.41 - PART 1

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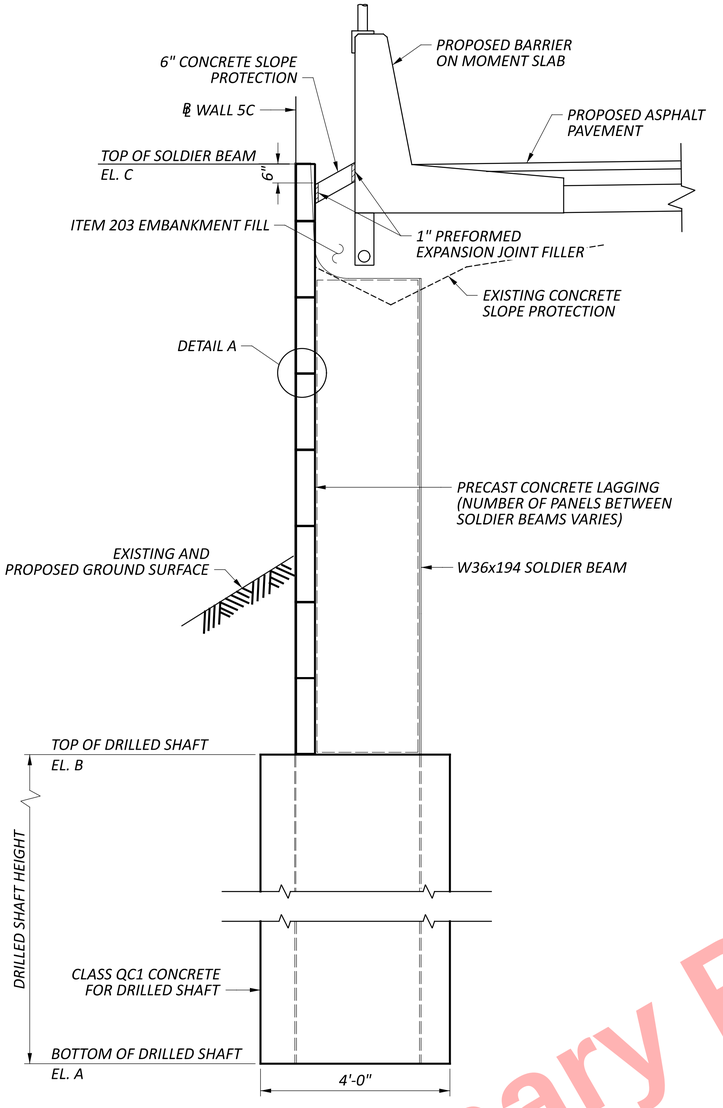
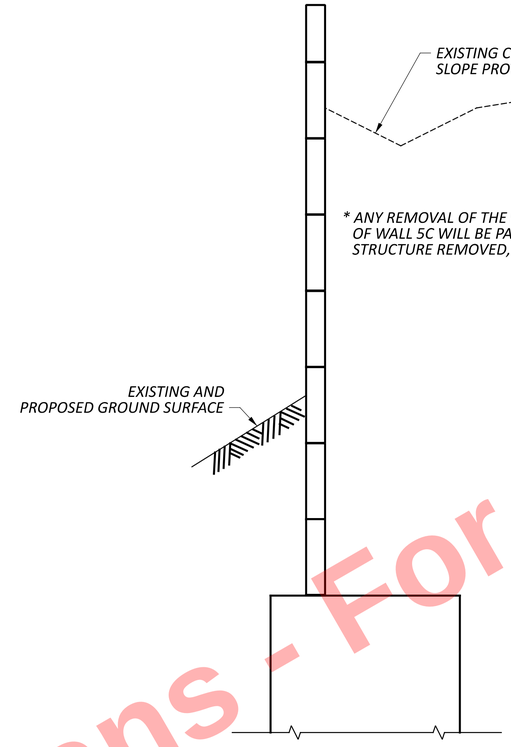
DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET / TOTAL	3 / 4
SHEET / TOTAL	P.975 / P.1269

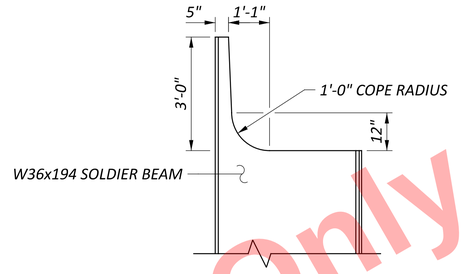


WALL 5C TYPICAL SECTION

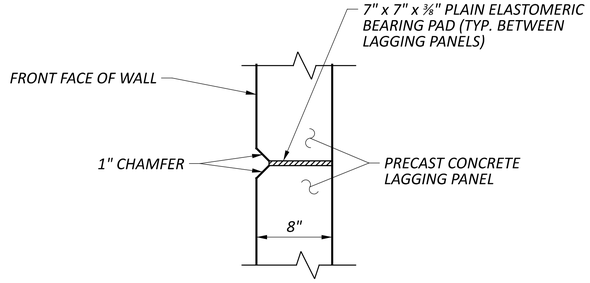


EXCAVATION SCHEMATIC

* ANY REMOVAL OF THE MSE WALL REQUIRED FOR THE INSTALLATION OF WALL 5C WILL BE PAID FOR UNDER ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, BRIDGE NO. CUY-77-1331.



SOLDIER BEAM COPING DETAIL

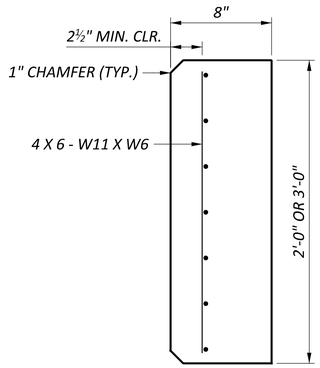


DETAIL A

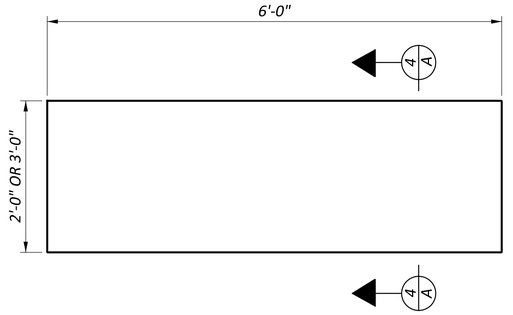
NOTES:

1. AT THE CONTRACTOR'S OPTION, THE SOLDIER BEAM SIZE MAY BE INCREASED AT NO ADDITIONAL COST TO THE DEPARTMENT. THE PROPOSED BEAM SIZE MUST HAVE A SECTION MODULUS EQUAL TO OR GREATER THAN THE BEAM SIZE SPECIFIED. IN ADDITION, THE PROPOSED BEAM MUST ALLOW AT LEAST 3 INCHES OF CLEARANCE BETWEEN THE FLANGES AND THE SIDE OF THE DRILLED SHAFT.
2. ALL PRECAST LAGGING PANELS SHALL BE SEATED ON TWO ELASTOMERIC BEARING PADS WITH ONE PLACED AT EACH END. THE COST FOR FABRICATION AND INSTALLATION OF THE BEARING PADS WILL BE CONSIDERED INCEDENTAL TO THE PLACEMENT OF PRECAST LAGGING.
3. FOR DRILLED SHAFT LAYOUT PLAN AND WALL ELEVATION, SEE SHEET 3/4.
4. FOR INFORMATION ON REMOVAL OF THE EXISTING MSE WALL, SLOPE PROTECTION, AND EXCAVATION, SEE PLANS FOR BRIDGE CUY-77-1331.

DRILLED SHAFT NUMBER	WALL 5C STATION	OFFSET	BOTT. OF SHAFT ELEVATION (EL. A)	TOP OF SHAFT ELEVATION (EL. B)	TOP OF SOLDIER BEAM ELEV. (EL. C)	LENGTH OF SOLDIER BEAM (FEET)	DRILLED SHAFT DIAMETER (INCHES)	SOLDIER BEAM SIZE
1	60+00.00	1.42 RT	628.83	663.83	682.14	53.31	48.00	W36X194
2	60+06.50	1.42 RT	628.83	663.83	682.11	53.28	48.00	W36X194
3	60+13.00	1.42 RT	631.86	666.86	682.08	50.22	48.00	W36X194
4	60+19.50	1.42 RT	634.86	669.86	682.05	47.19	48.00	W36X194
5	60+26.00	1.42 RT	638.90	673.90	682.02	43.12	48.00	W36X194



SECTION A-A



LAGGING PANEL ELEVATION

Preliminary Plans - For Reference Only

WALL DETAILS AND SOLDIER PILE DIMESION TABLE
RETAINING WALL 5C

DESIGN AGENCY TRC
DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 4 TOTAL 4
SHEET P.976 TOTAL P.1269

CUY-77-11.41 - PART 1

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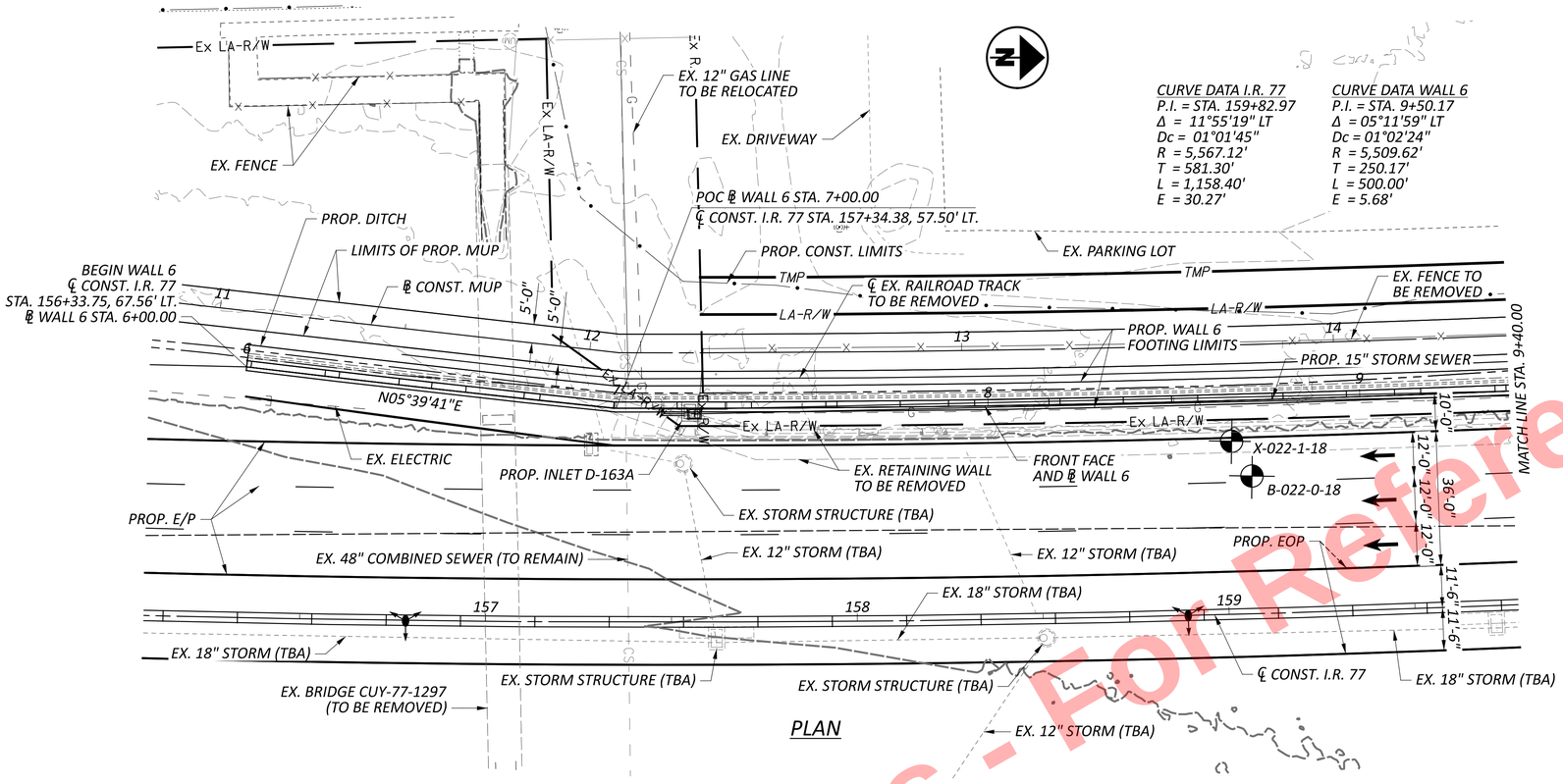


PLAN

CURVE DATA I.R. 77
P.I. = STA. 159+82.97
Δ = 11°55'19" LT
Dc = 01°01'45"
R = 5,567.12'
T = 581.30'
L = 1,158.40'
E = 30.27'

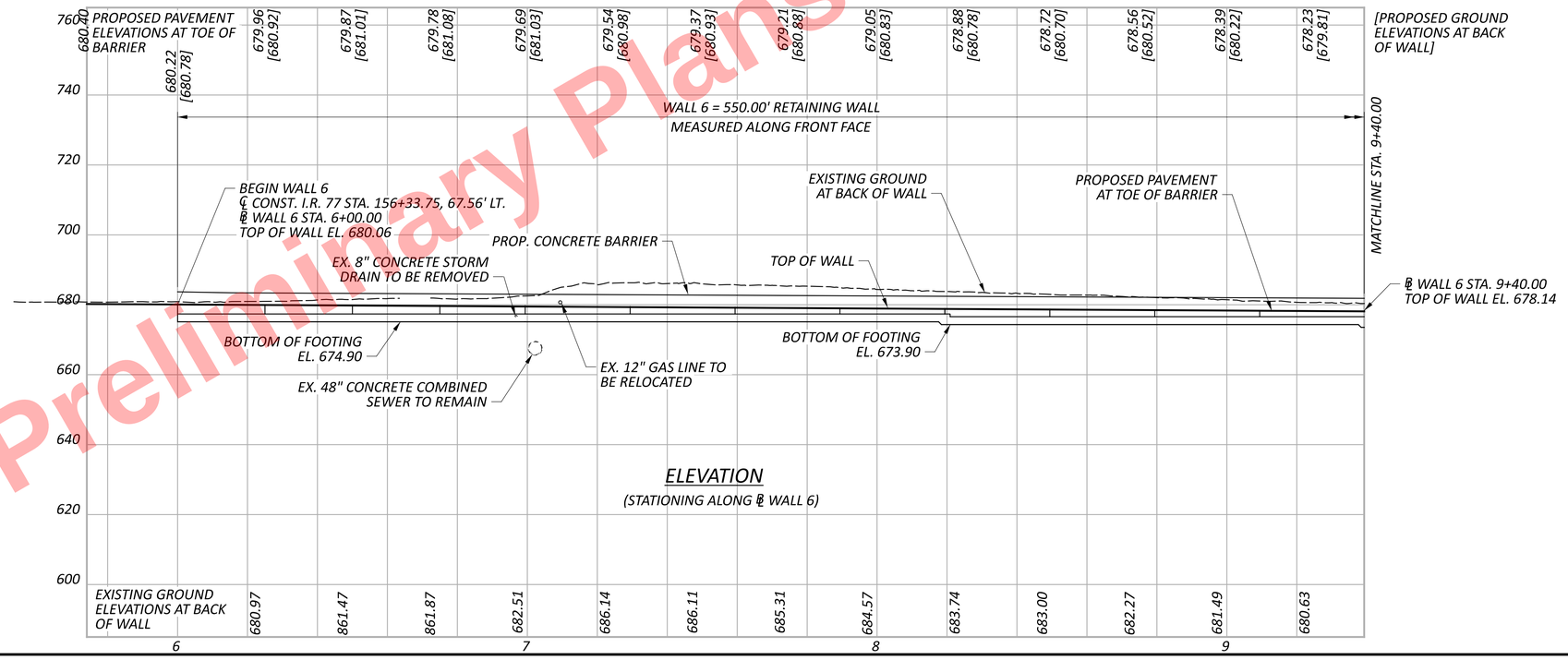
CURVE DATA WALL 6
P.I. = STA. 9+50.17
Δ = 05°11'59" LT
Dc = 01°02'24"
R = 5,509.62'
T = 250.17'
L = 500.00'
E = 5.68'

LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION

NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. FOR REMOVAL DETAILS OF EXISTING RETAINING WALL, SEE SHEETS 5/23 AND 6/23 OF RETAINING WALL 5A PLANS.
3. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A, 1B, AND 1C.



ELEVATION

(STATIONING ALONG ℄ WALL 6)

Preliminary Plans - For Reference Only

SITE PLAN 1 OF 2
RETAINING WALL 6

CUY-77-11.41 - PART 1

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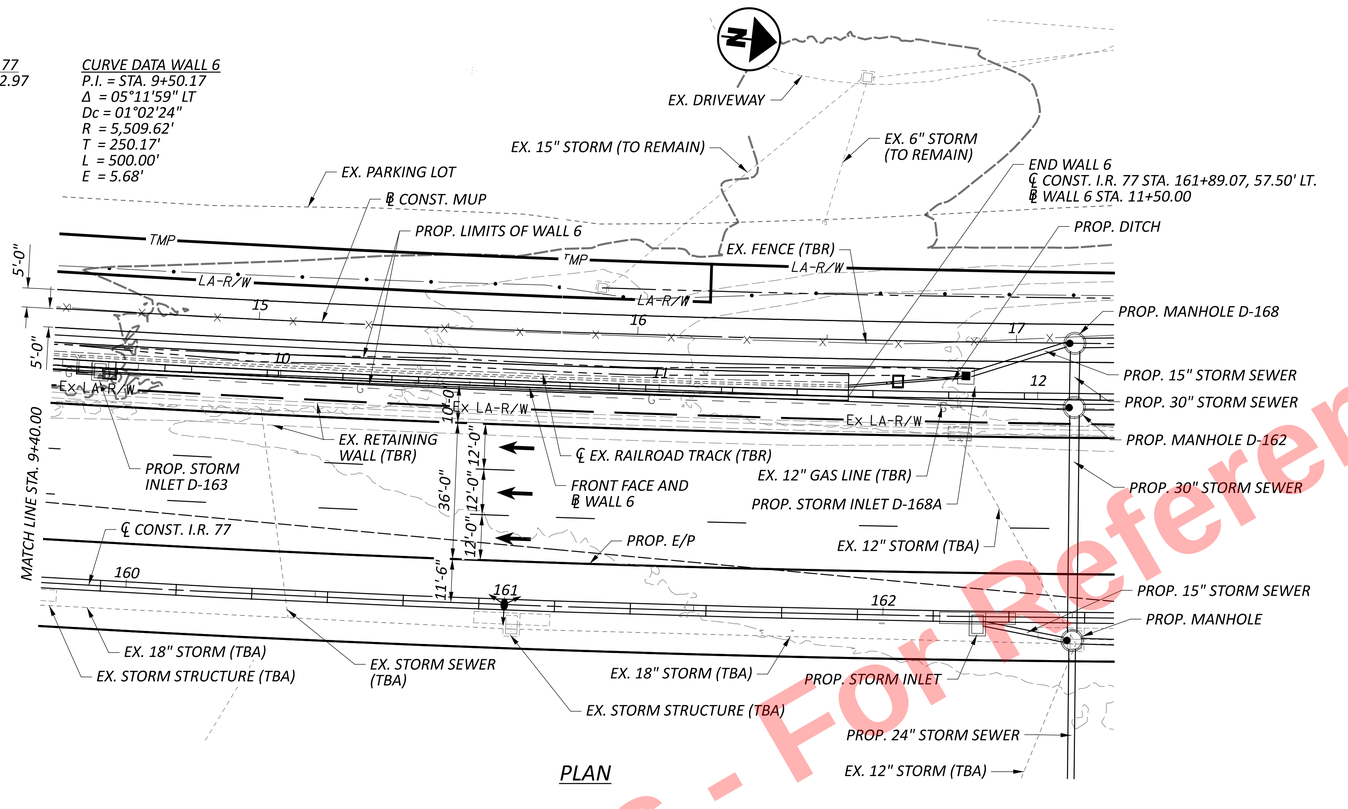
DESIGN AGENCY: TRC

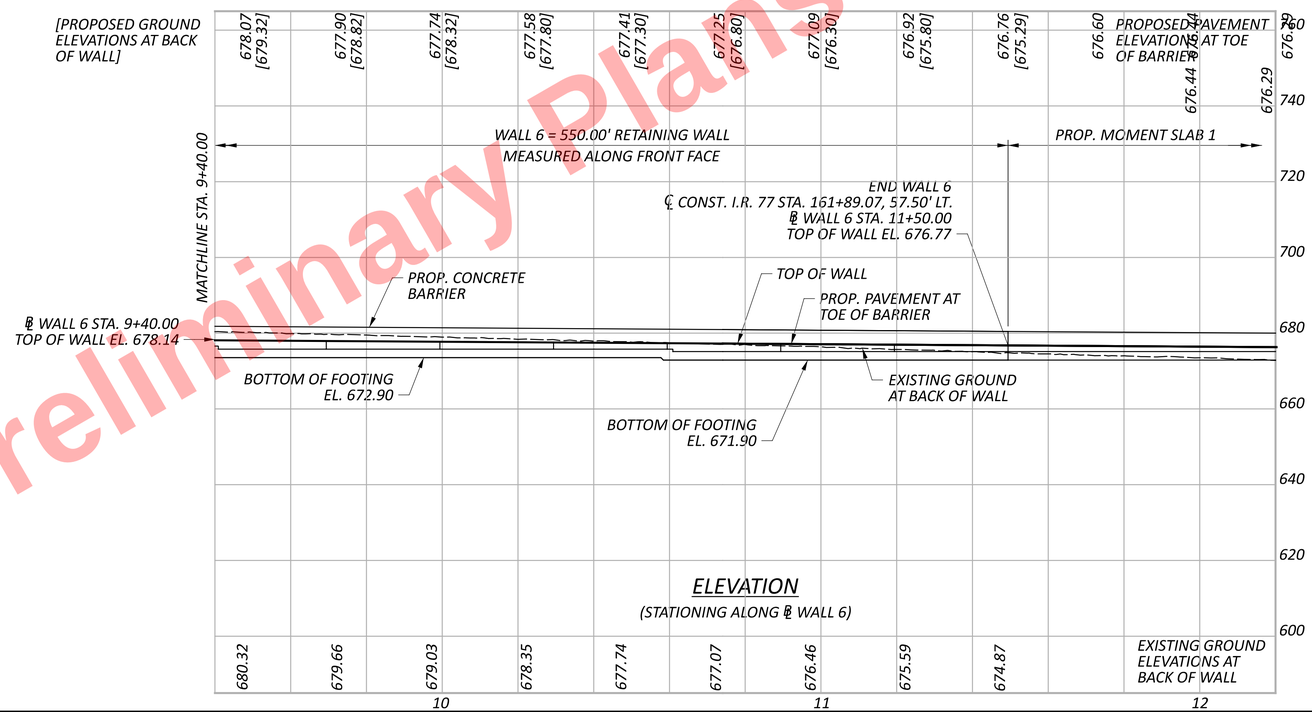
DESIGNER	LAB
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	1
TOTAL	15
SHEET	P.977
TOTAL	P.1269

CURVE DATA I.R. 77
P.I. = STA. 159+82.97
Δ =11°55'19" LT
Dc = 01°01'45"
R = 5,567.12'
T = 581.30'
L = 1,158.40'
E = 30.27'

CURVE DATA WALL 6
P.I. = STA. 9+50.17
Δ = 05°11'59" LT
Dc = 01°02'24"
R = 5,509.62'
T = 250.17'
L = 500.00'
E = 5.68'



PLAN



ELEVATION

(STATIONING ALONG ℄ WALL 6)

NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. FOR REMOVAL DETAILS OF EXISTING RETAINING WALL, SEE SHEETS 5/23 AND 6/23 OF RETAINING WALL 5A PLANS.
3. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A, 1B, AND 1C.

Preliminary Plans - For Reference Only

SITE PLAN 2 OF 2
RETAINING WALL 6

CUY-77-11.41 - PART 1

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DESIGN AGENCY
TRC

DESIGNER
LAB

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 2 | TOTAL 15

SHEET P.978 | TOTAL P.1269

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD DRAWING:
SBR-1-20 REVISED 7/19/24
VPF-1-24 REVISED 1/17/25

OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 10TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (CONCRETE STEM)

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI (CONCRETE ON WALL STEM)

EPOXY COATED REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI (CONCRETE STEM)

FOUNDATION BEARING RESISTANCE

THE RETAINING WALL FOOTING, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LOAD PRESSURE OF 1.06 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 1.37 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 2.80 KIPS PER SQUARE FOOT.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

ITEM 511 - CLASS QC2 CONCRETE WITH QC/QA, MISC.: BARRIER ON WALL STEM

VERTICAL SAWCUTS SHALL BE PERFORMED IN THE CONCRETE BARRIER AT ALL CONTRACTION JOINTS IN THE WALL STEM. SAWCUTS SHALL CONFORM TO THE DETAILS AND SPECIFICATIONS FOR CONCRETE RAILING DEFLECTION JOINTS IN STANDARD DRAWING SBR-1-20. LABOR, EQUIPMENT AND MATERIALS NEEDED TOCOMPLETE THIS WORK WILL BE CONSIDERED INCIDENTAL TOPLACEMENT OF THE BARRIER CONCRETE.

ITEM 607 - VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC, AS PER PLAN

THIS ITEM SHALL BE AS PER THE DETAILS IN THE PLAN, THE APPLICABLE PORTIONS OF STANDARD DRAWING VPF-1-24, AND THE MANUFACTURER'S RECOMMENDATIONS.

THE ANCHORS ON THE TOP OF THE PROPOSED CONCRETE BRIDGE RAILING SHALL BE CAST IN PLACE WITH A 6" OR 7" MINIMUM EMBEDMENT LENGTH, AS SHOWN ON THE STANDARD DRAWING FOR THE SPECIFIED BASE PLATE TYPE.

AT LOCATIONS WHERE THE FENCE SPANS ACROSS AN EXPANSION JOINT IN THE BRIDGE RAILING AT AN INTEGRAL OR SEMI-INTEGRAL ABUTMENT, DO NOT INSTALL LINE RAILS AND EXPANSION JOINT SLEEVES; HOWEVER, THE FABRIC SHALL REMAIN CONTINUOUS ACROSS THE EXPANSION JOINT.

THE COLOR OF THE FENCE FABRIC, RAILS, POSTS, PLATES, TIE WIRES, AND ADDITIONAL VISUAL HARDWARE AND CAULK SHALL BE BLACK.

PAYMENT FOR THE ABOVE SHALL BE AT THE UNIT PRICE BID PER FOOT FOR ITEM 607 - VANDAL PROTECTION FENCE 6' STRAIGHT, COATED FABRIC, AS PER PLAN WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

℄ - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

Preliminary Plans - For Reference Only

GENERAL NOTES
RETAINING WALL 6

DESIGN AGENCY
TRC

DESIGNER LAB
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 3 | TOTAL 15
SHEET P.979 | TOTAL P.1269

CUY-77-11.41 - PART 1

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ESTIMATED QUANTITIES (WALL 6)

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
203	20000	563	CY	EMBANKMENT	
503	21100	1334	CY	UNCLASSIFIED EXCAVATION	
509	10000	40252	LB	EPOXY COATED STEEL REINFORCEMENT	
511	46012	94	CY	CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING, RETAINING/WINGWALL NOT INCLUDING FOOTING	
511	46512	297	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING	
511	53012	96	CY	CLASS QC2 CONCRETE, MISC.: WITH QC/QA, BARRIER ON STEM WALL	3
512	10101	367	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	3
512	33000	18	SY	TYPE 2 WATERPROOFING	
516	13600	96	SF	1" PREFORMED EXPANSION JOINT FILLER	
516	13900	5	SF	2" PREFORMED EXPANSION JOINT FILLER	
518	20000	176	SY	PREFABRICATED GEOCOMPOSITE DRAIN	
518	21200	82	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
518	40000	550	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
518	40010	49	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
607	39901	541	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC, AS PER PLAN	

Preliminary Plans - Not For Reference Only

ESTIMATED QUANTITIES
RETAINING WALL 6

DESIGN AGENCY
TRC

DESIGNER
LAB

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 4 | TOTAL 15

SHEET P.980 | TOTAL P.1269

CUY-77-11.41 - PART 1

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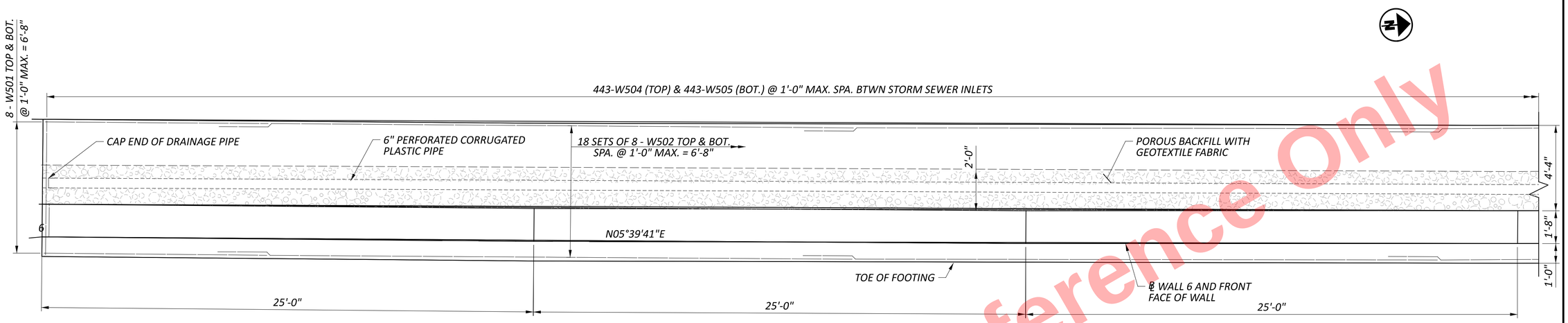
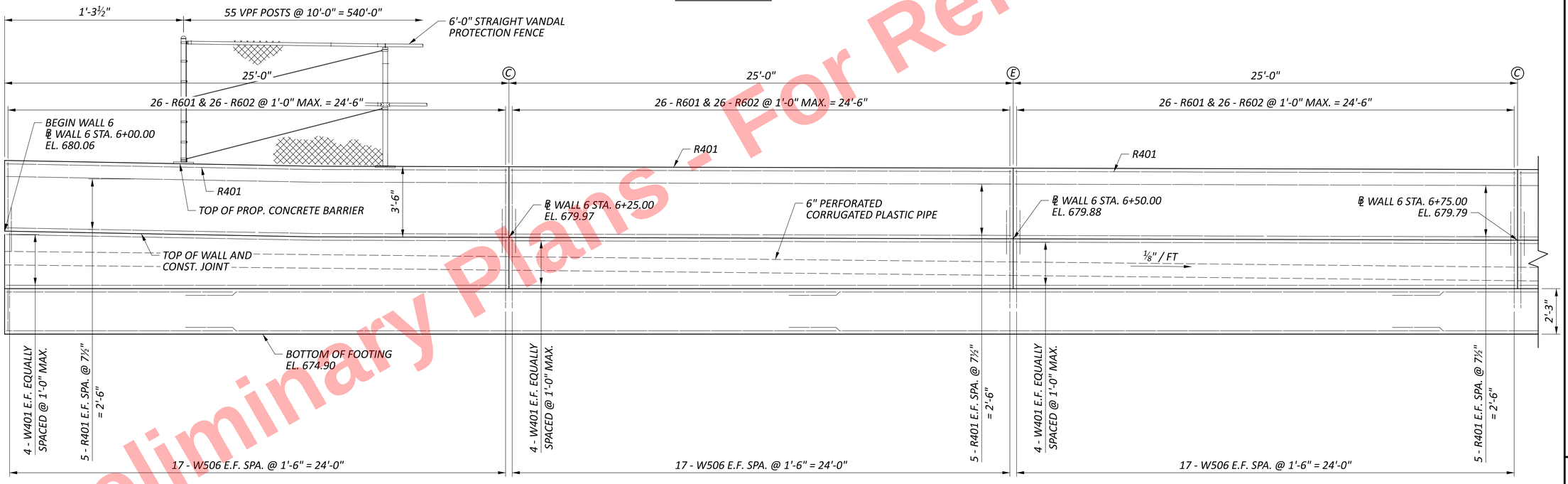


PARTIAL PLAN



PARTIAL ELEVATION

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. THE MINIMUM LAP LENGTH FOR NO. 5 BARS IS 3'=1".
3. FOR REINFORCING STEEL LIST, SEE SHEET 15/15.

Preliminary Plans - For Reference Only

WALL PLAN AND ELEVATION
RETAINING WALL 6

DESIGN AGENCY: TRC

DESIGNER	LAB
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET / TOTAL	5 / 15
SHEET / TOTAL	P.981 / P.1269

CUY-77-11.41 - PART 1

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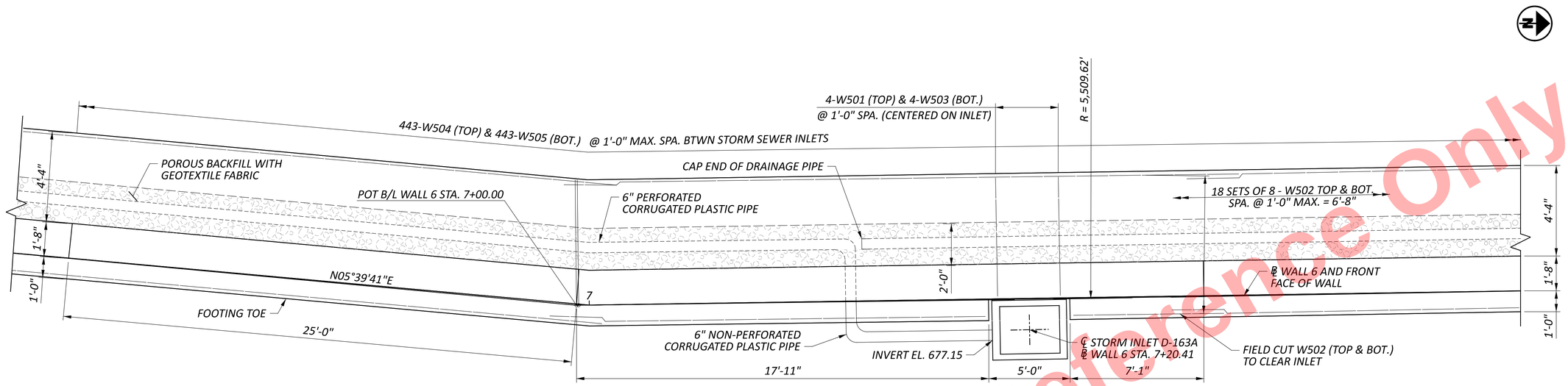
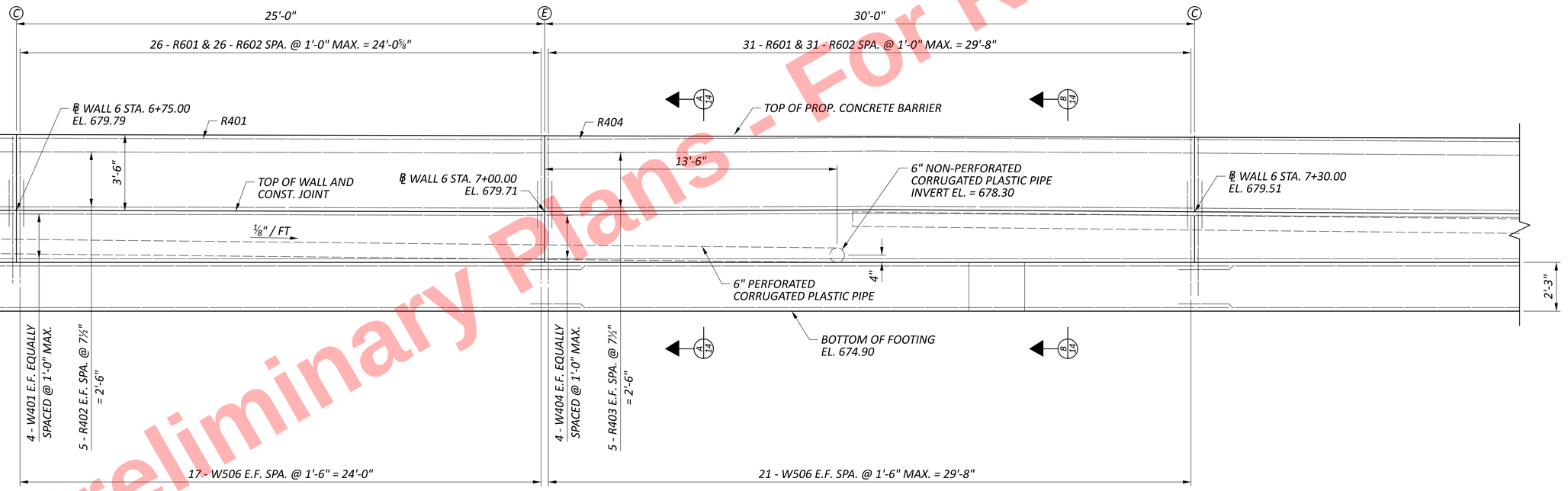


PARTIAL PLAN



PARTIAL ELEVATION

(VANDAL FENCE NOT SHOWN FOR CLARITY)

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR SECTION A-A AND SECTION B-B SEE SHEET 14/15.
3. FOR REINFORCING STEEL LIST, SEE SHEET 15/15.
4. THE MINIMUM LAP LENGTH FOR NO. 5 BARS IS 3'-1".

Preliminary Plans - For Reference Only

WALL PLAN AND ELEVATION
RETAINING WALL 6

DESIGN AGENCY: TRC

DESIGNER	LAB
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	6
TOTAL	15
SHEET	P.982
TOTAL	P.1269

CUY-77-11.41 - PART 1

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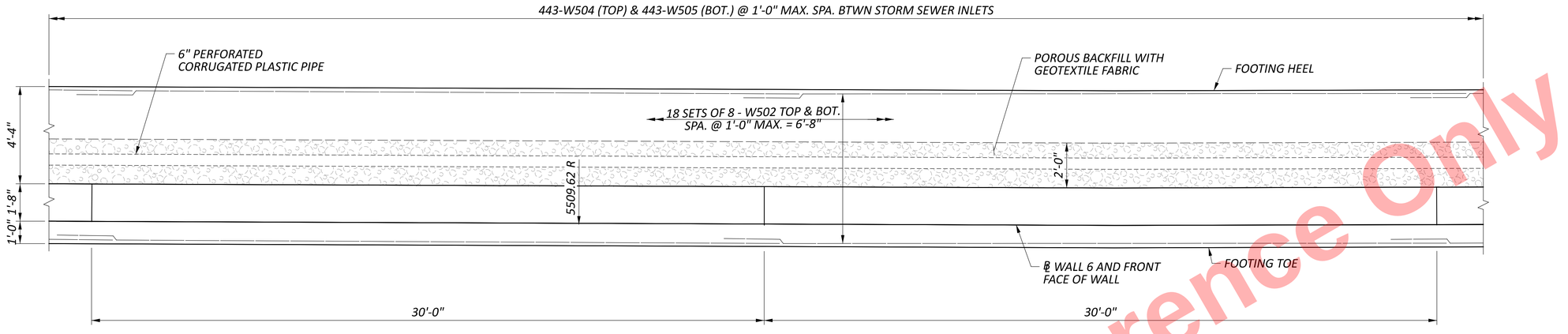
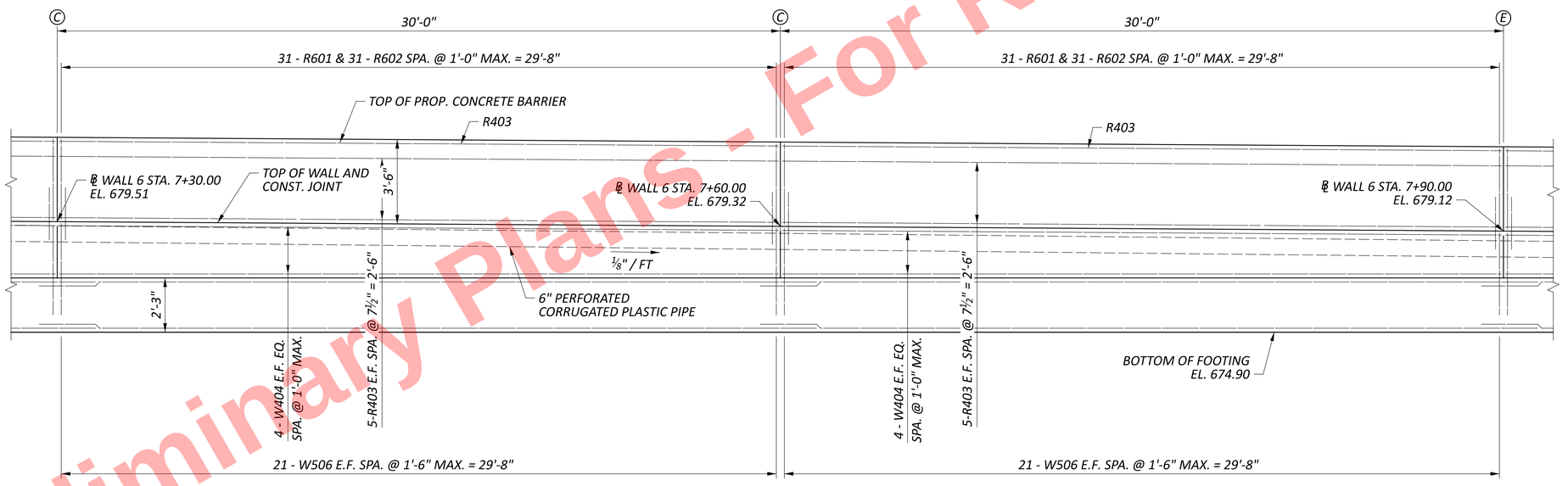


PARTIAL PLAN



PARTIAL ELEVATION

(VANDAL FENCE NOT SHOWN FOR CLARITY)

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. THE MINIMUM LAP LENGTH FOR NO. 5 BARS IS 3'-1".
3. FOR REINFORCING STEEL LIST, SEE SHEET 15/15.

Preliminary Plans - For Reference Only

WALL PLAN AND ELEVATION
RETAINING WALL 6

DESIGN AGENCY TRC

DESIGNER	LAB
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	7
TOTAL	15
SHEET	P.983
TOTAL	P.1269

CUY-77-11.41 - PART 1

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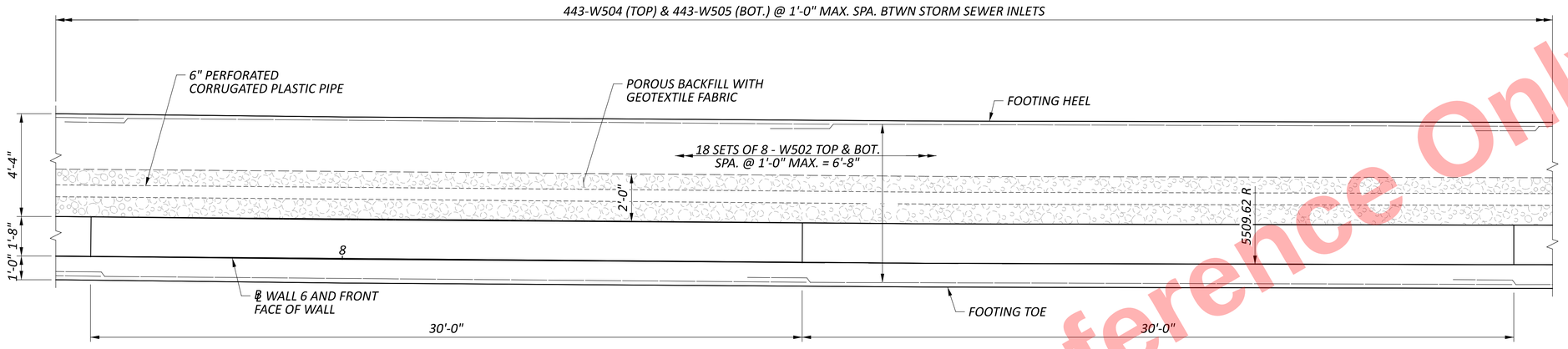
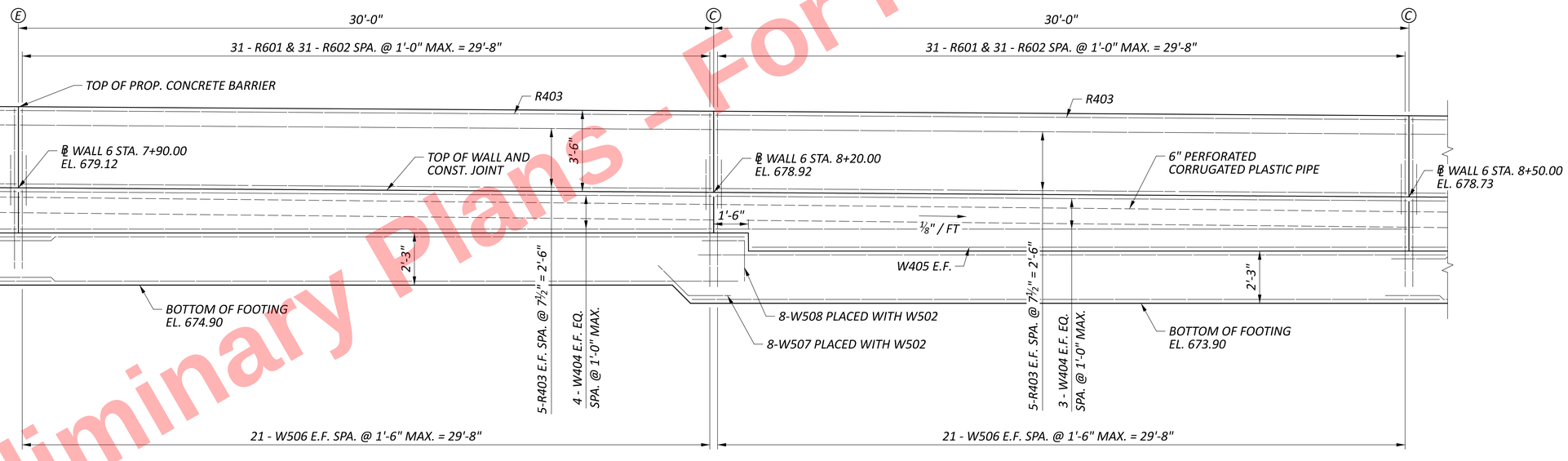


PARTIAL PLAN



PARTIAL ELEVATION

(VANDAL FENCE NOT SHOWN FOR CLARITY)

Preliminary Plans - For Reference Only

LEGEND:

Ⓒ - CONTRACTION JOINT

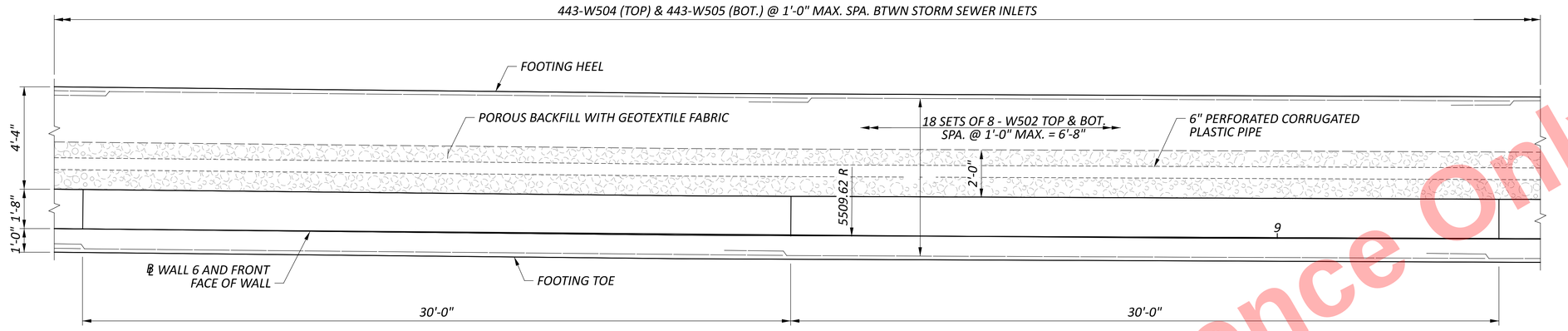
Ⓔ - EXPANSION JOINT

NOTES:

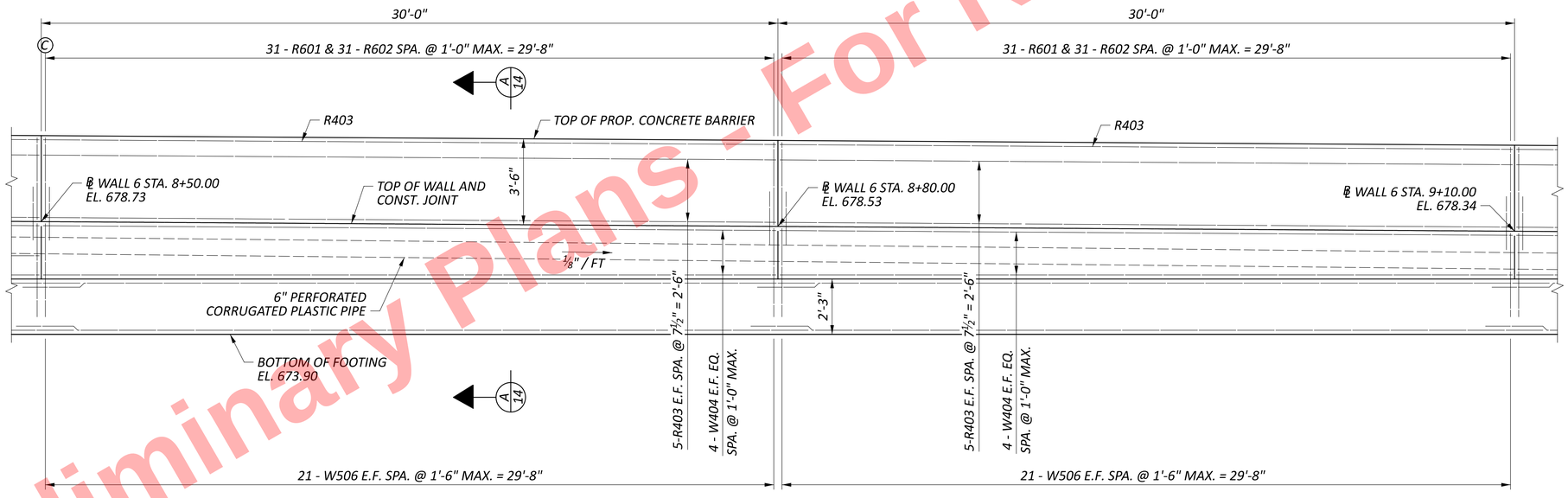
1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. THE MINIMUM LAP LENGTH FOR NO. 5 BARS IS 3'-1".
3. FOR REINFORCING STEEL LIST, SEE SHEET 15/15.

WALL PLAN AND ELEVATION
RETAINING WALL 6

DESIGN AGENCY	TRC
DESIGNER	LAB
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	8
TOTAL	15
SHEET	P.984
TOTAL	P.1269



PARTIAL PLAN



PARTIAL ELEVATION

(VANDAL FENCE NOT SHOWN FOR CLARITY)

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR SECTION A-A AND SECTION B-B SEE SHEET 14/15.
3. FOR REINFORCING STEEL LIST, SEE SHEET 15/15.
4. THE MINIMUM LAP LENGTH FOR NO. 5 BARS IS 3'-1".

Preliminary Plans - For Reference Only

WALL PLAN AND ELEVATION
RETAINING WALL 6

DESIGN AGENCY TRC

DESIGNER	LAB
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	9
TOTAL	15
SHEET	P.985
TOTAL	P.1269

CUY-77-11.41 - PART 1

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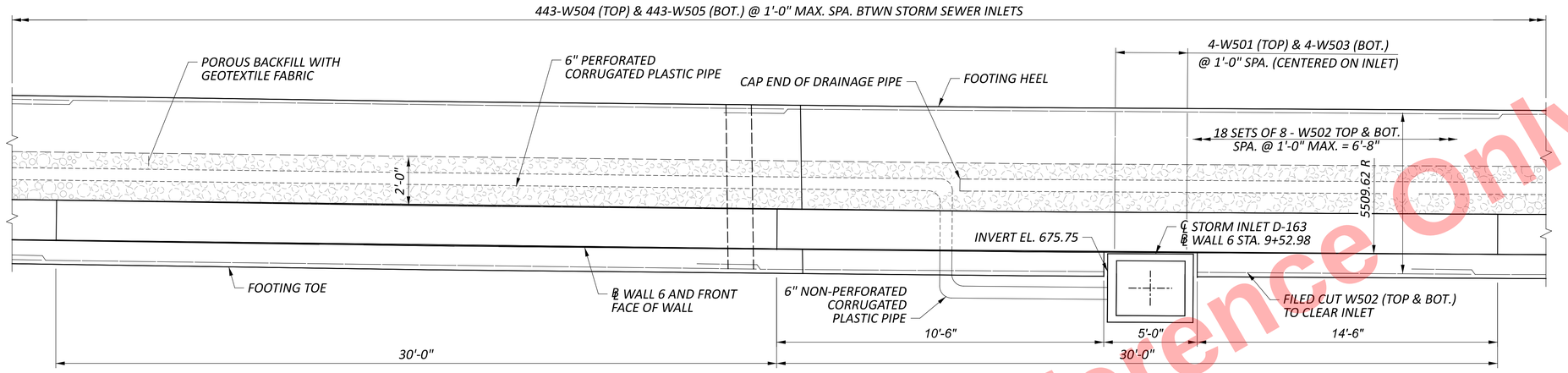
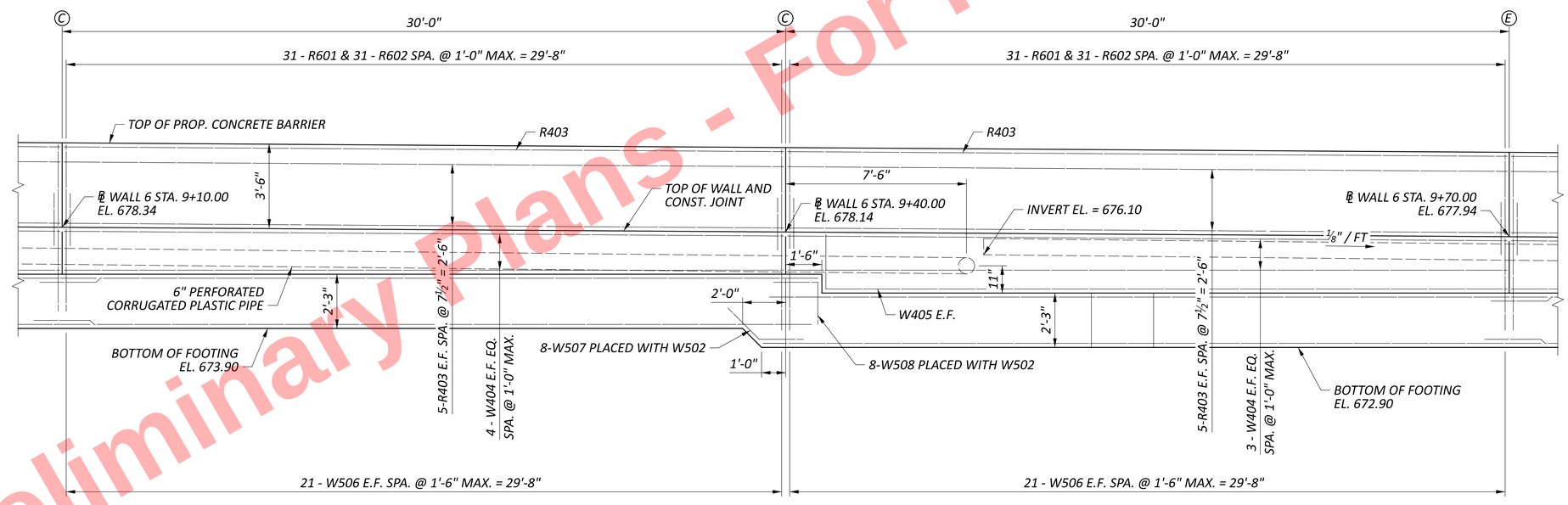


PARTIAL PLAN



PARTIAL ELEVATION

(VANDAL FENCE NOT SHOWN FOR CLARITY)

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. THE MINIMUM LAP LENGTH FOR NO. 5 BARS IS 3'-1".
3. FOR REINFORCING STEEL LIST, SEE SHEET 15/15.

Preliminary Plans - For Reference Only

WALL PLAN AND ELEVATION
RETAINING WALL 6

DESIGN AGENCY TRC

DESIGNER LAB

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 10 | TOTAL 15

SHEET P.986 | TOTAL P.1269

CUY-77-11.41 - PART 1

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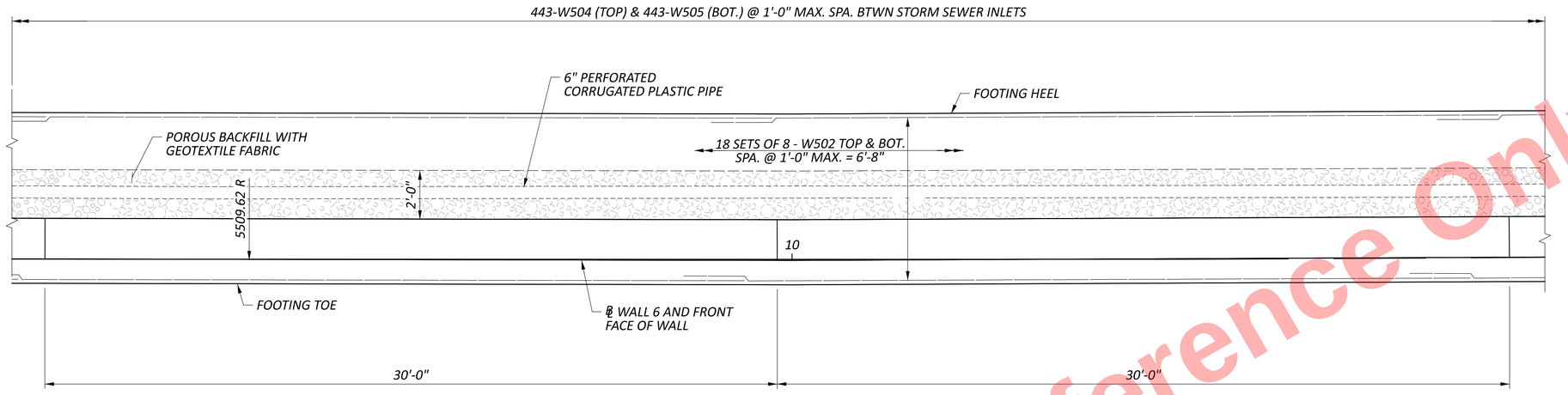
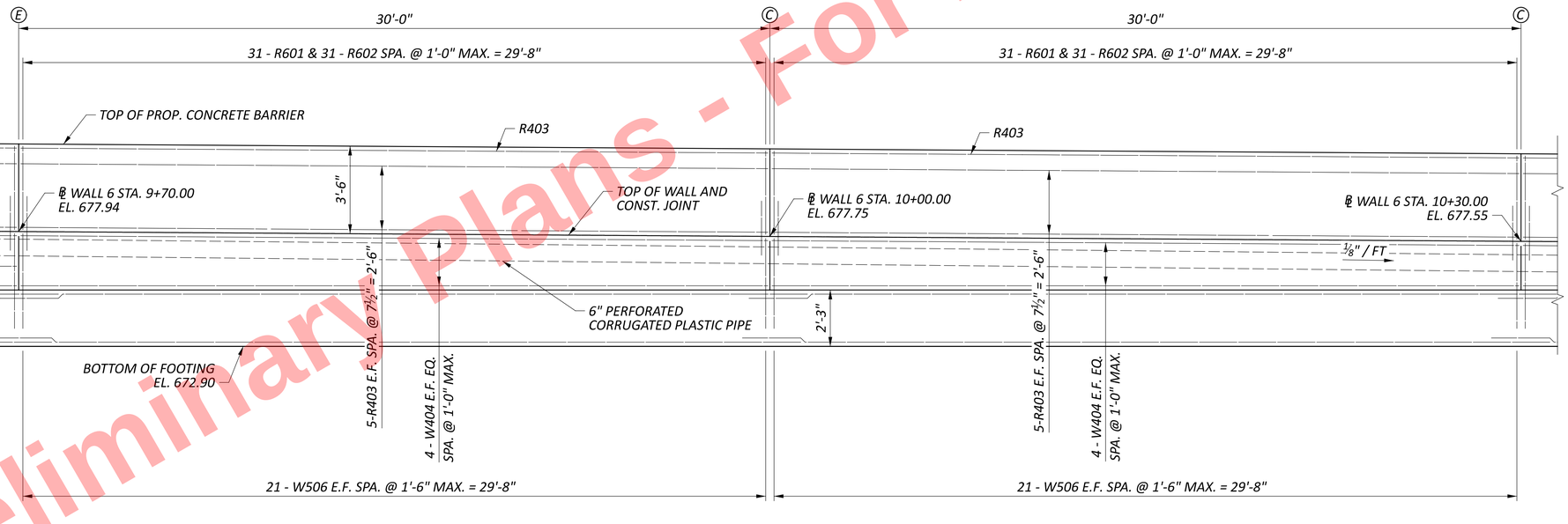
JPyles@trcsolutions.com



PARTIAL PLAN



PARTIAL ELEVATION

(VANDAL FENCE NOT SHOWN FOR CLARITY)

LEGEND:

- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

NOTES:

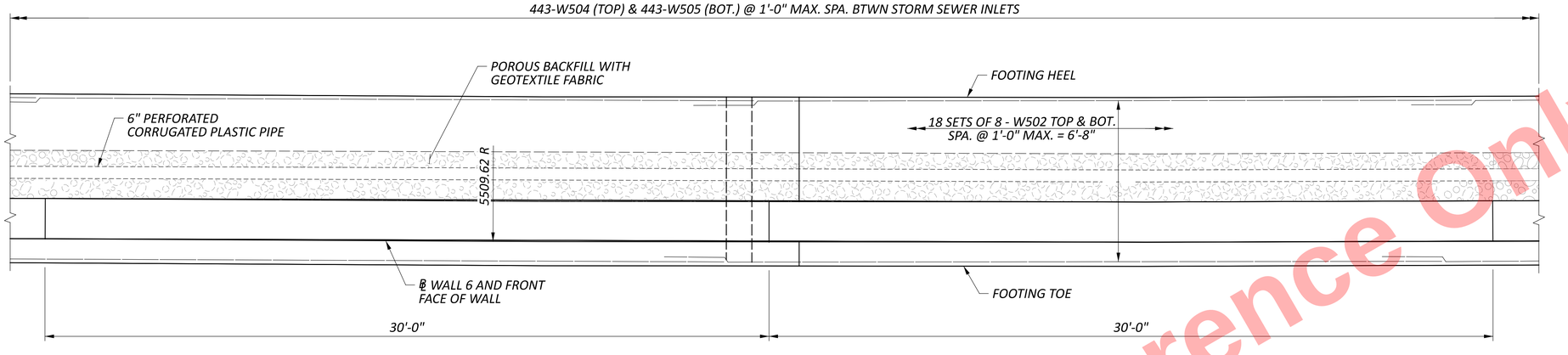
1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. THE MINIMUM LAP LENGTH FOR NO. 5 BARS IS 3'-1".
3. FOR REINFORCING STEEL LIST, SEE SHEET 15/15.

Preliminary Plans - For Reference Only

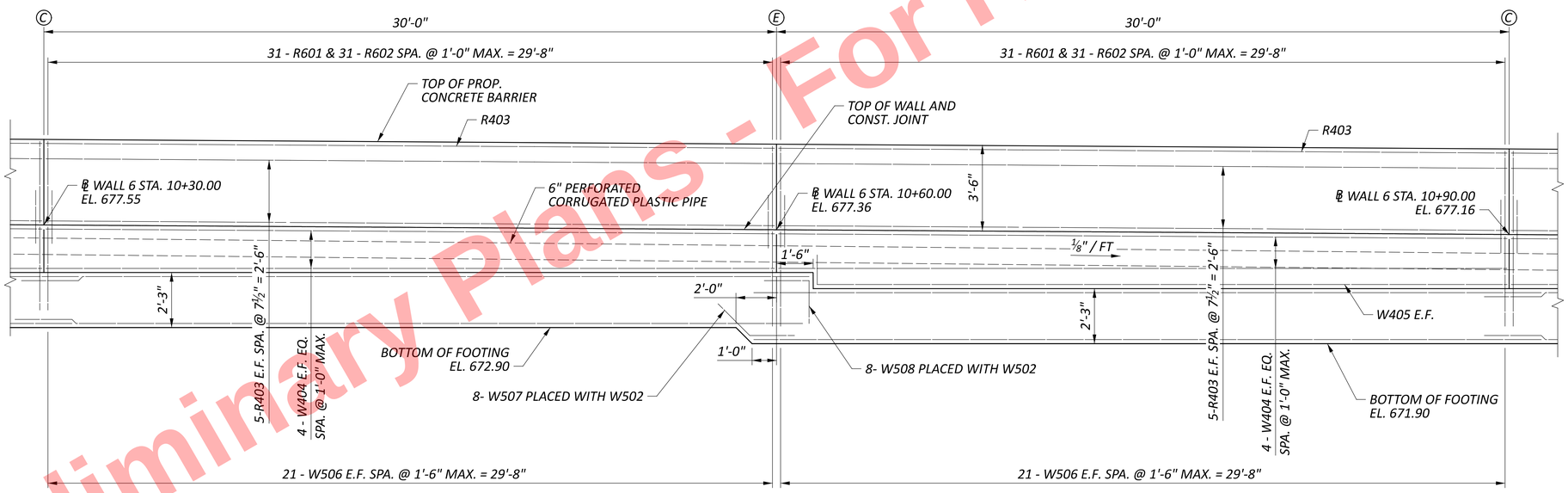
WALL PLAN AND ELEVATION
RETAINING WALL 6

DESIGN AGENCY: TRC

DESIGNER	LAB
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	11
TOTAL	15
SHEET	P.987
TOTAL	P.1269



PARTIAL PLAN



PARTIAL ELEVATION

(VANDAL FENCE NOT SHOWN FOR CLARITY)

Preliminary Plans - For Reference Only

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. THE MINIMUM LAP LENGTHS FOR NO. 5 BARS IS 3'-1".
3. FOR REINFORCING STEEL LIST, SEE SHEET 15/15.

WALL PLAN AND ELEVATION
RETAINING WALL 6

DESIGN AGENCY: TRC

DESIGNER: LAB

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET 12 | TOTAL 15

SHEET P.988 | TOTAL P.1269

CUY-77-11.41 - PART 1

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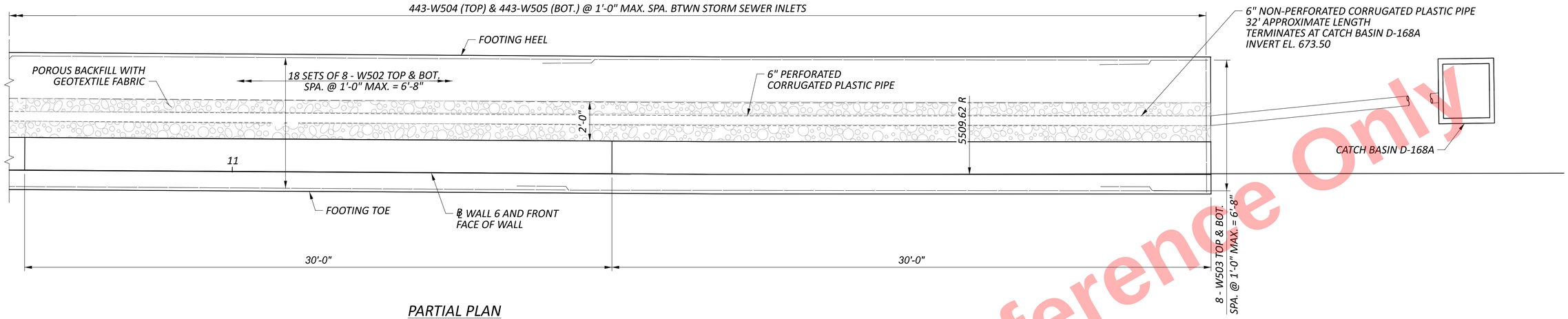
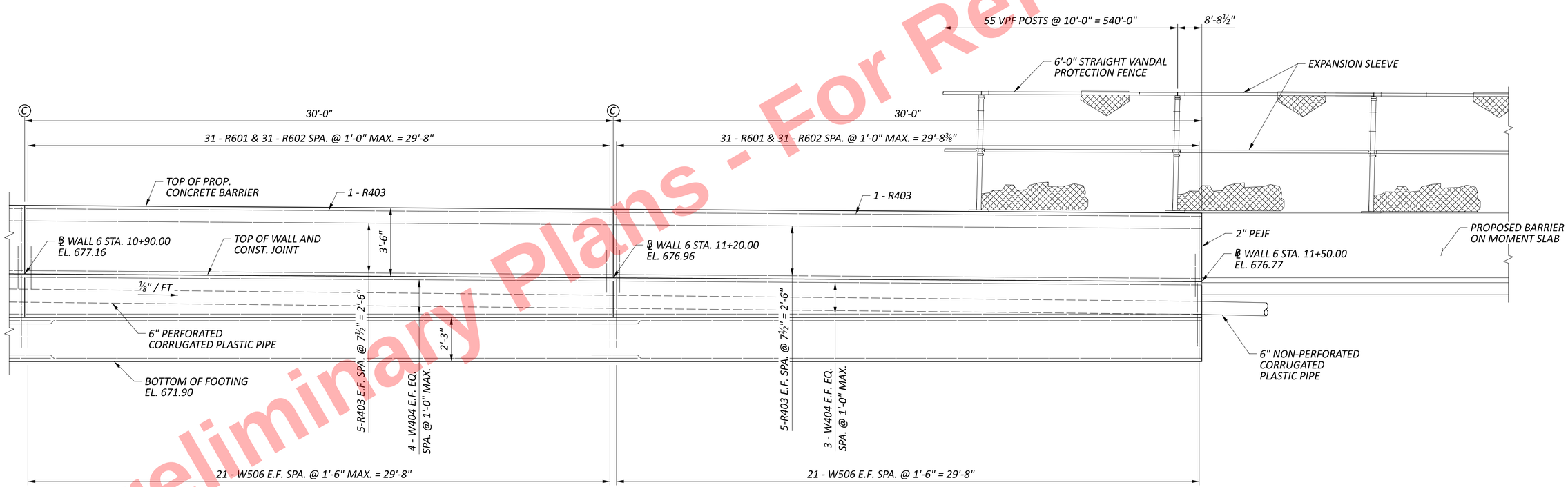


PARTIAL PLAN



PARTIAL ELEVATION

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. THE MINIMUM LAP LENGTH FOR NO. 5 BARS IS 3'-1".
3. FOR REINFORCING STEEL LIST, SEE SHEET 15/15.

Preliminary Plans - For Reference Only

WALL PLAN AND ELEVATION
RETAINING WALL 6

DESIGN AGENCY
TRC

DESIGNER LAB
REVIEWER CJW 08/02/24
PROJECT ID 105743
SUBSET 13 TOTAL 15
SHEET P.989 TOTAL P.1269

CUY-77-11.41 - PART 1

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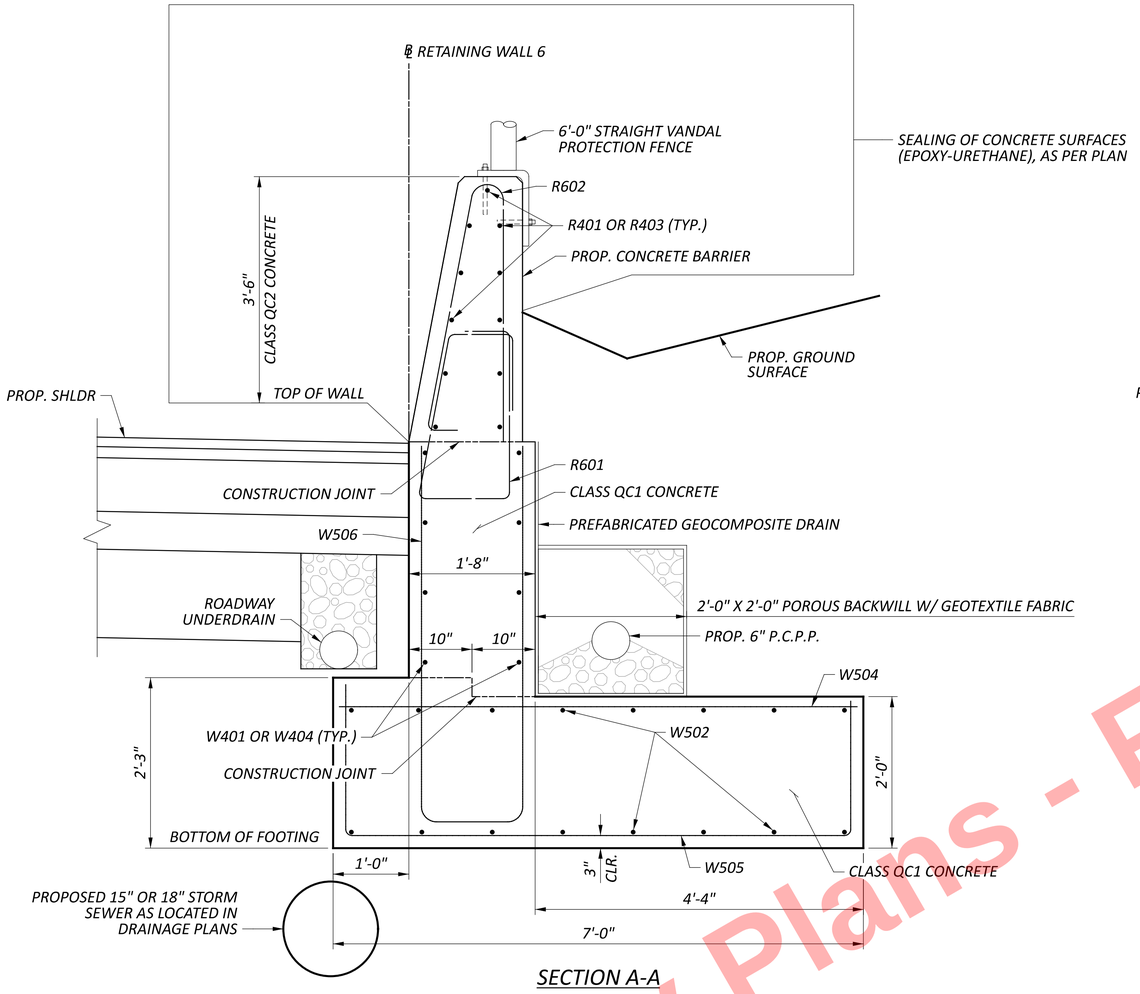
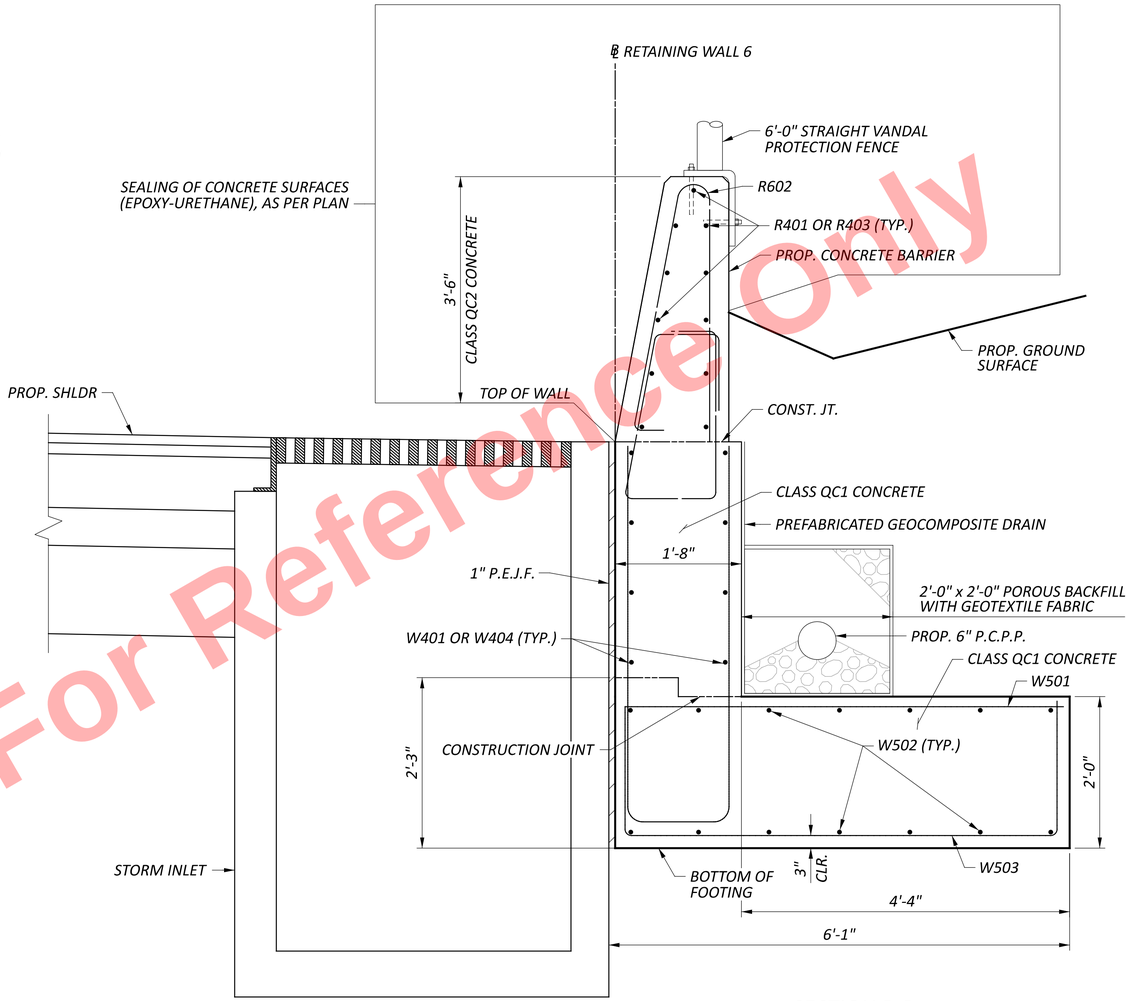


SECTION A-A



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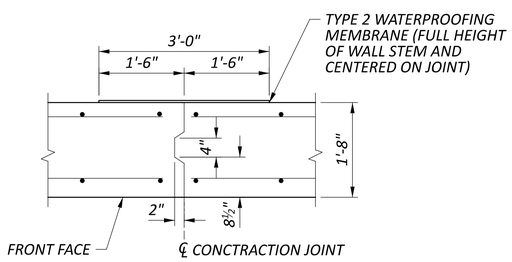
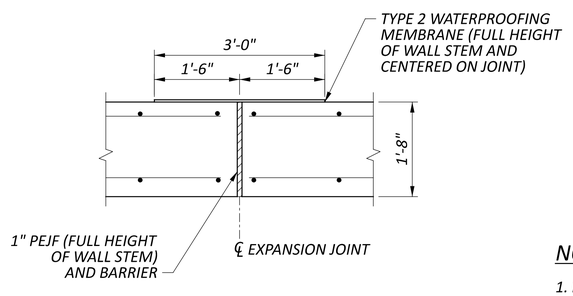


CONTRACTION JOINT DETAIL



EXPANSION JOINT DETAIL

NOTES:

1. FOR WALL PLAN AND ELEVATION, SEE SHEETS 5/15 THRU 13/15.
2. FOR REINFORCING STEEL LIST, SEE SHEET 15/15.
3. PREFABRICATED GEOCOMPOSITE DRAIN SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BEHIND THE WALL STEM.

Preliminary Plans - For Reference Only

WALL DETAILS
RETAINING WALL 6

DESIGN AGENCY
TRC

DESIGNER LAB
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 14 | TOTAL 15
SHEET P.990 | TOTAL P.1269

CUY-77-11.41 - PART 1

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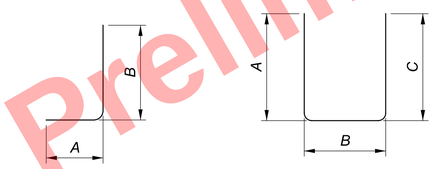
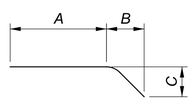
MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
WALL STEM AND FOOTING											
W401	32	24'-8"	527	STR							
W404	114	29'-8"	2259	STR							
W501	8	5'-8"	47	STR							
W502	288	32'-3"	9687	STR							
W503	8	8'-7"	72	2	1'-7"	5'-8"	1'-7"				
W504	443	6'-8"	3080	STR							
W505	443	9'-7"	4428	2	1'-7"	6'-8"	1'-7"				
W506	766	4'-8"	3728	1	4'-0"	0'-10"					
W507	24	3'-8"	92	19	1'-10"	1'-4"	1'-4"				
W508	24	3'-6"	88	1	1'-10"	1'-10"					
TOTAL	24,008										

MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
BARRIER											
R401	44	24'-8"	725	STR							
R403	165	29'-8"	3270	STR							
R601	569	7'-4"	6267	37	0'-9"	0'-9 ½"	1'-5"	1'-0"	0'-7"		
R602	569	7'-0"	5982	23	0'-6"	3'-3"	3'-3"			0'-2"	
TOTAL	16,244										



TYPE-1

TYPE-2



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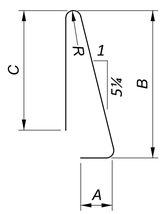

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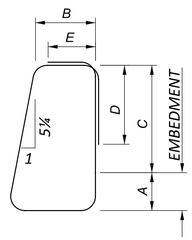

TYPE-37

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATE THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. ALL REINFORCING STEEL TO BE EPOXY COATED.

Preliminary Plans - For Reference Only

REINFORCING STEEL LIST
RETAINING WALL 6

DESIGN AGENCY TRC
DESIGNER LAB
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 15 | TOTAL 15
SHEET P.991 | TOTAL P.1269

CUY-77-11.41 - PART 1

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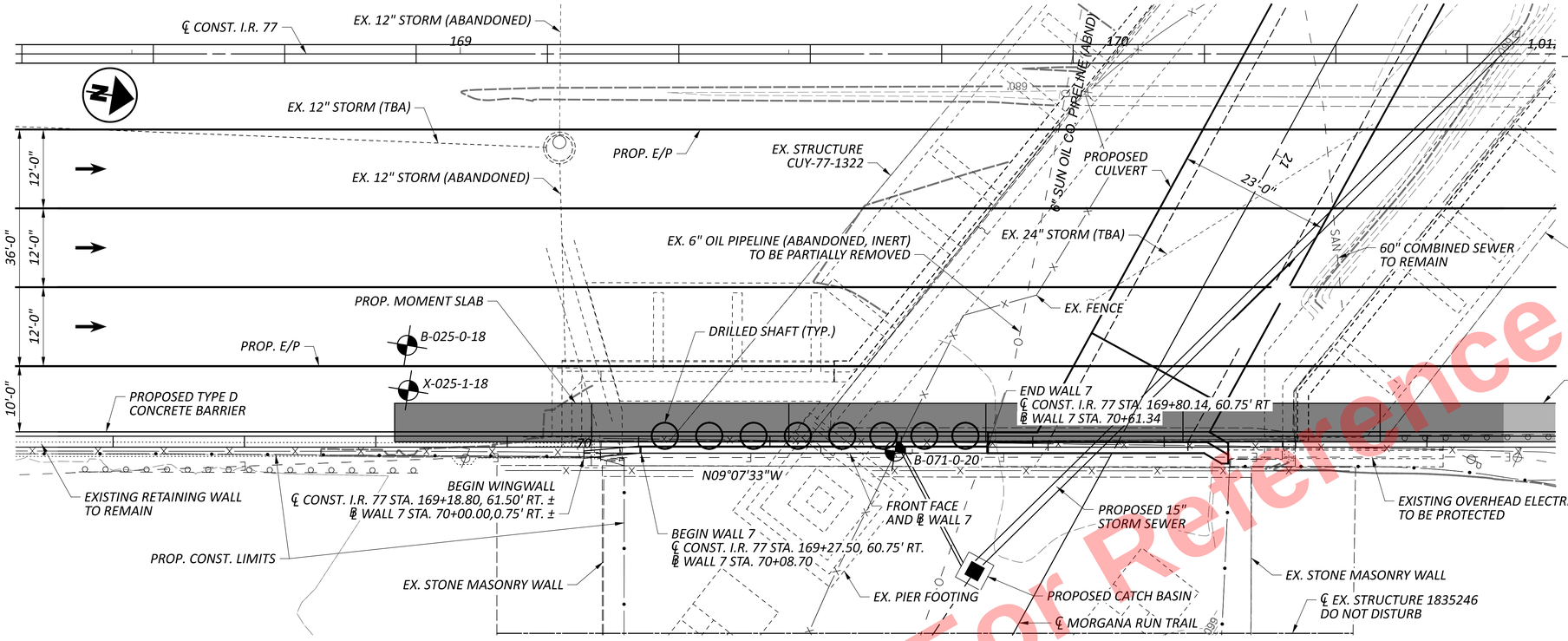
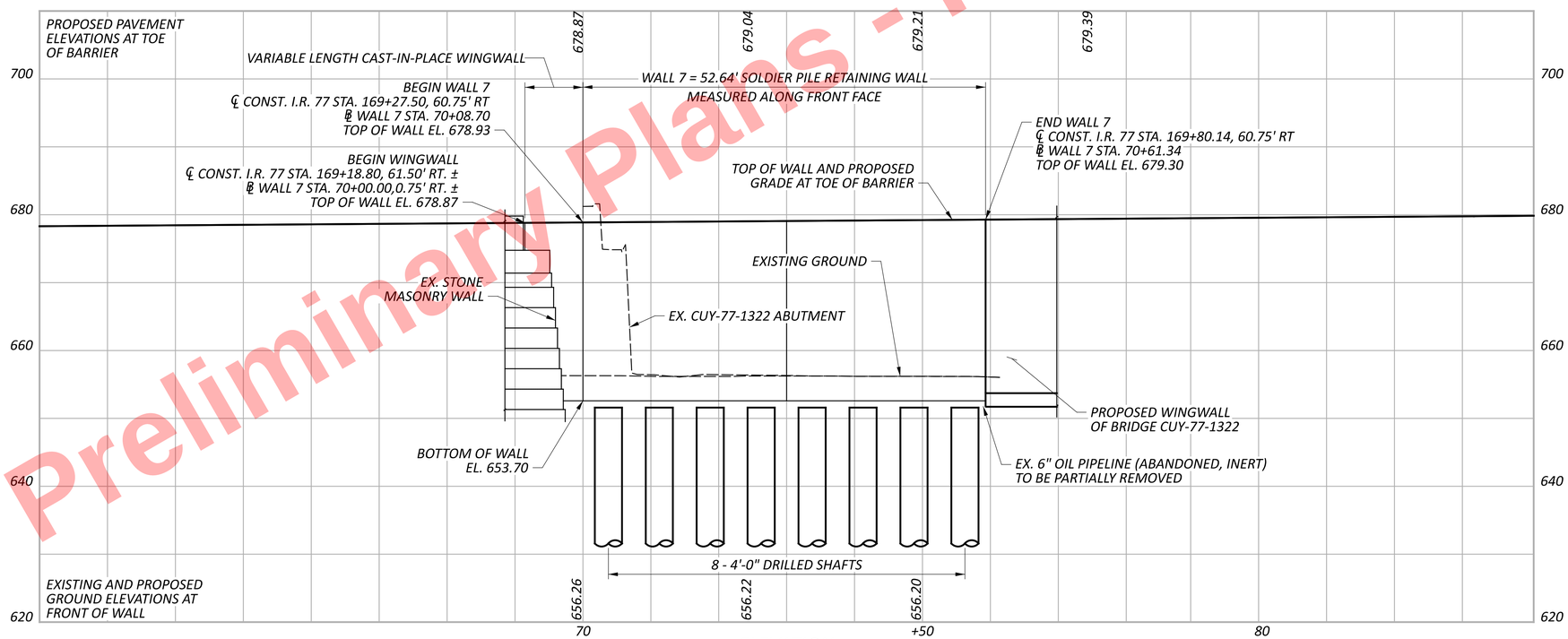


PLAN



ELEVATION

(STATIONING ALONG ℄ WALL 7)

LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION

NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 3A, 3B, AND 3C.

Preliminary Plans - For Reference Only

SITE PLAN
RETAINING WALL 7

DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 1 TOTAL: 8
SHEET: P.992 TOTAL: P.1269

CUY-77-11.41 - PART 1

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DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 10TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN PARAMETERS

LIVE LOAD SURCHARGE = 250 PSF (2' DEPTH OF SOIL OVERBURDEN)

DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

EPOXY COATED REINFORCING STEEL - MIN. YIELD STRENGTH 60 KSI

STEEL SOLDIER PILES - ASTM A572 - YIELD STRENGTH 50 KSI

ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES, W36x256

THIS WORK CONSISTS OF FURNISHING AND PLACING STEEL SOLDIER PILES INTO DRILLED HOLES. FURNISH SOLDIER PILES CONSISTING OF STRUCTURAL STEEL MEMBERS THAT MEET THE PLAN REQUIREMENTS AND CONFORM TO ASTM A572, GRADE 50. DO NOT FIELD WELD OR SPLICE STEEL SOLDIER PILES.

THE DEPARTMENT WILL MEASURE SOLDIER PILES ALONG THE AXIS OF THE SOLDIER PILE FROM THE TOP OF WALL ELEVATION TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER. THE DEPARTMENT WILL PAY FOR SOLDIER PILES AT THE CONTRACT UNIT PRICE PER FOOT FOR ITEM 507, STEEL PILES, MISC.: SOLDIER PILES, W36x256.

ITEM 512 - TYPE 2 WATERPROOFING, AS PER PLAN

PLACE WATERPROOFING MEMBRANE AT THE LOCATIONS OF THE PROPOSED JOINTS IN THE CONCRETE WALL FACING. PLACE THE WATERPROOFING MEMBRANE OVER THE PGD AND SECURELY ATTACH TO THE TIMBER LAGGING WITH SCREWS AND 1-INCH OUTER DIAMETER FENDER WASHERS. PLACE THE MEMBRANE SO THAT THE ADHESIVE SIDE FACES THE CAST-IN-PLACE CONCRETE. THE SURFACE PREPARATION DESCRIBED IN C&MS 512.08 IS NOT REQUIRED.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

ITEM 513 - WELDED STUD SHEAR CONNECTORS, AS PER PLAN

SOLDIER PILES WHICH REQUIRE HEADED STUDS ARE SHOWN IN THE TABLE ON SHEET 7/8. WELD HEADED STEEL STUDS TO THE FLANGES OF THE SOLDIER PILE IN ORDER TO CONNECT THE CONCRETE WALL FACING TO THE SOLDIER PILE. ATTACH HEADED STUDS ACCORDING TO C&MS 513.22 AND AS SHOWN IN THE PLANS. THE CONTRACTOR MAY ATTACH THE STUDS EITHER BEFORE PLACING THE SOLDIER PILE IN THE DRILLED HOLE OR AFTER EXCAVATING IN FRONT OF THE WALL. PROTECT THE HEADED STUDS FROM DAMAGE UNTIL THE CONCRETE WALL FACING IS POURED. REPAIR OR REPLACE DAMAGED HEADED STUDS AT NO EXPENSE TO THE DEPARTMENT.

ITEM 524 - DRILLED SHAFT, 48" DIAMETER ABOVE BEDROCK, AS PER PLAN

THIS WORK CONSISTS OF FURNISHING AND INSTALLING DRILLED SHAFTS FOR SOLDIER PILE WALLS. THE DRILLED SHAFTS ARE REINFORCED WITH SOLDIER PILES INSTEAD OF REINFORCING STEEL CAGES. THE SOLDIER PILES EXTEND ABOVE THE TOP OF THE DRILLED SHAFT. FURNISH AND INSTALL THE DRILLED SHAFTS ACCORDING TO C&MS 524 EXCEPT AS MODIFIED AND SUPPLEMENTED BELOW.

EXCAVATE THE HOLE FOR THE DRILLED SHAFT WITHIN 3 INCHES OF THE PLAN LOCATION. PLACE THE SOLDIER PILE WITHIN THE HOLE SO IT IS VERTICAL AND NOT INCLINED MORE THAN 1 INCH BETWEEN TOP AND BOTTOM. PLACE THE SOLDIER PILE SO THAT THE FLANGES ARE PARALLEL TO THE CENTERLINE OF THE ROW OF DRILLED SHAFTS. DO NOT ALLOW THE ORIENTATION OF THE FLANGES TO VARY BY MORE THAN 10 DEGREES. SUPPORT THE SOLDIER PILE SO THAT IT DOES NOT MOVE DURING CONCRETE PLACEMENT.

USE CLASS QC1 CONCRETE ACCORDING TO C&MS 511. PLACE CONCRETE TO THE ELEVATION FOR THE TOP OF THE DRILLED SHAFT. THE CONTRACTOR MAY PLACE CONCRETE USING THE FREE FALL METHOD PROVIDED THE DEPTH OF WATER IS LESS THAN 6 INCHES AND THE CONCRETE FALLS WITHOUT STRIKING THE SIDES OF THE HOLE. POURING CONCRETE ALONG THE WEB OF THE SOLDIER PILE IS ACCEPTABLE.

CHECK THE POSITION, THE VERTICAL ALIGNMENT AND ORIENTATION OF THE SOLDIER PILE IMMEDIATELY AFTER CONCRETE PLACEMENT. MAKE CORRECTIONS AS NECESSARY TO MEET THE ABOVE TOLERANCES.

SEQUENCE OF INSTALLATION: INSTALL THE DRILLED SHAFTS IN A SEQUENCE SUCH THAT NO DRILLED SHAFT IS INSTALLED ADJACENT TO EITHER AN OPEN DRILLED SHAFT EXCAVATION OR A DRILLED SHAFT IN WHICH THE CONCRETE HAS LESS THAN A 48 HOUR CURE. INSTALLING THE SHAFTS IN AN ALTERNATING SEQUENCE OR ANY OTHER SEQUENCE THAT MEETS THIS CRITERIA IS PERMISSIBLE.

PROTECTION OF UNATTENDED OPEN SHAFTS: COVER UNATTENDED OPEN SHAFTS. USE TEMPORARY COVERS OF ADEQUATE STRENGTH TO PREVENT A PERSON OR ANIMAL FROM FALLING IN. LEAVE NO DRILLED SHAFT EXCAVATION UN-POURED OVERNIGHT.

THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHOD USED TO CONSTRUCT THE DRILLED SHAFTS. ANY TEMPORARY GRADING, EXCAVATION, EMBANKMENT, AGGREGATE, DRAINAGE, SHEETING, ETC. NEEDED TO COMPLETE THE WORK ISINCLUDED IN THE BID PRICE FOR THE DRILLED SHAFTS. THE COST OF ANY EXCAVATION AND SUBSEQUENT REPLACEMENT OF EMBANKMENT (PER ITEM 203 EMBANKMENT) IS INCLUDED IN THE VARIOUS BID ITEMS FOR THE DRILLED SHAFTS, UNLESS SEPARATELY ITEMIZED. NO SEPARATE PAYMENT WILL BE MADE.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE DRILLED SHAFTS ABOVE BEDROCK, AS PER PLAN, ALONG THE AXIS OF THE DRILLED SHAFT FROM THE EXISTING GROUND SURFACE TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER.

ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

| - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

Preliminary Plans - Not For Reference Only

GENERAL NOTES
RETAINING WALL 7

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 2 | TOTAL 8

SHEET P.993 | TOTAL P.1269

CUY-77-11.41 - PART 1

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ITEM 203 - ROADWAY MISC.: EPS GEOFOAM FILL

THIS WORK CONSISTS FURNISHING, TRIMMING AND PLACING BLOCK-MOLDED EXPANDED POLYSTYRENE (EPS) FOR USE AS A GEOFOAM GEOSYNTHETIC PRODUCT IN APPLICATIONS REQUIRING LIGHTWEIGHT FILL MATERIAL.

FURNISH EPS GEOFOAM BLOCKS PRODUCED BY A MANUFACTURER WITH A QUALITY CONTROL PROGRAM WHICH IS MONITORED AND CERTIFIED BY AN ACCREDITED, THIRD-PARTY TESTING ORGANIZATION. AT LEAST 20 DAYS BEFORE THE WORK IS TO BEGIN, SUBMIT TO THE ENGINEER THE FOLLOWING DOCUMENTS:

1. CERTIFIED TEST DATA SHOWING THE EPS GEOFOAM MEETS THE SPECIFIED REQUIREMENTS.
2. MANUFACTURER'S QUALITY CONTROL PLAN AND EVIDENCE OF THIRD-PARTY QUALITY CONTROL MONITORING.
3. SHOP DRAWINGS SHOWING BLOCK THICKNESS, WIDTH, LENGTH AND LAYING PATTERN OR SCHEDULE.

FURNISH EPS GEOFOAM BLOCKS CONFORMING TO ASTM D 6817, RIGID CELLULAR POLYSTYRENE GEOFOAM, ACCORDING TO THE GEOFOAM TYPE INDICATED IN THE PLANS AND THE TABLE BELOW.

ASTM TYPE	EPS22	EPS29
MINIMUM DENSITY, LB/CU. FT.	1.35	1.8
COMPRESSIVE RESISTANCE		
AT 1% STRAIN, PSI	7.3	10.9
AT 5% STRAIN, PSI	16.7	25.0
AT 10% STRAIN, PSI	19.6	29.0
FLEXURAL STRENGTH, PSI	35.0	50.0

FURNISH BLOCKS TREATED BY THE MANUFACTURER WITH A TESTED AND PROVEN TERMITE TREATMENT FOR BELOW GRADE APPLICATIONS. THE TREATMENT SHALL BE EPA REGISTERED, MEET REQUIREMENTS OF ICC ES AC 239, AND BE RECOGNIZED IN AN ICC ES REPORT. FURNISH BLOCKS THAT MEET THE PRODUCT FLAMMABILITY REQUIREMENTS SPECIFIED IN ASTM C578.

FURNISH BLOCKS THAT ARE SMOOTH AND FLAT ON ALL SURFACES AND HAVE A DIMENSIONAL TOLERANCE OF ±0.5 PERCENT. THE CORNER OR EDGE FORMED BY ANY TWO FACES OF A BLOCK SHALL BE PERPENDICULAR. THE DEVIATION OF ANY FACE OF THE BLOCK FROM A THEORETICAL PERPENDICULAR PLANE SHALL NOT EXCEED 1/8 INCH OVER A DISTANCE OF 20 INCHES. ANY ONE FACE OF A BLOCK SHALL NOT DEVIATE FROM A THEORETICAL PLANE BY MORE THAN 1/4 INCH WHEN MEASURED USING A STRAIGHTEDGE WITH A LENGTH OF 10 FEET.

BEFORE SHIPPING TO THE SITE, ENSURE BLOCKS ARE SEASONED BY STORING THEM AT THE MANUFACTURER'S FACILITY FOR AT LEAST 72 HOURS AT NORMAL AMBIENT ROOM TEMPERATURE AFTER BEING RELEASED FROM THE MOLD. DURING SEASONING, ALLOW ADEQUATE SPACE BETWEEN THE BLOCKS TO ALLOW AIR CIRCULATION SO AS TO FOSTER THE OUTGASSING OF BLOWING AGENT AND TRAPPED CONDENSATE FROM WITHIN THE BLOCKS.

LABEL EACH BLOCK WITH THE MANUFACTURER'S NAME, ASTM EPS TYPE, THE DATE THE BLOCK WAS MOLDED, THE WEIGHT AND THE DENSITY OF THE BLOCK AS MEASURED AFTER SEASONING.

PROTECT THE BLOCKS FROM EXPOSURE TO THE FOLLOWING:

1. ORGANIC SOLVENTS SUCH AS ACETONE, BENZENE, AND PAINT THINNER
2. PETROLEUM BASED SOLVENTS SUCH AS GASOLINE AND DIESEL FUEL
3. HEAT SOURCES OR ACTIVITY THAT PRODUCE HEAT OR FLAME, INCLUDING TOBACCO SMOKING
4. MORE THAN 30 DAYS EXPOSURE TO SUNLIGHT

PROVIDE TIE DOWN STRAPS, SANDBAGS OR OTHER FLEXIBLE WEIGHTS TO PREVENT BLOCKS FROM BEING DISLODGED BY WIND. DO NOT STORE WHERE THERE IS A POTENTIAL FOR FLOODING.

PROTECT BLOCKS FROM DAMAGE. BLOCKS WITH SLIGHT DAMAGE WHICH AFFECTS A VOLUME OF 0.12 CUBIC FEET OR LESS MAY BE USED AS IS. BLOCKS WITH MODERATE DAMAGE WHICH AFFECTS A VOLUME OF 0.35 CUBIC FEET OR LESS MAY BE USED AND THE DAMAGED AREA FILLED WITH SAND. DO NOT USE BLOCKS WITH DAMAGE THAT AFFECTS A VOLUME GREATER THAN 0.35 CUBIC FEET. THE CONTRACTOR MAY CUT AND REMOVE THE DAMAGED PORTION OF A BLOCK AND THEN USE THE REMAINING UNDAMAGED PORTION OF THE BLOCK IF IT MEETS ALL OTHER REQUIREMENTS.

PREPARE THE SURFACE ON WHICH THE FIRST LAYER OF BLOCKS WILL BE PLACED BY STRIPPING ALL VEGETATION AND GRADING SO THAT IT IS LEVEL WITHIN A TOLERANCE OF 0.5 INCH OVER A 10 FT DISTANCE. PLACE GRANULAR MATERIAL CONFORMING TO SIZE NO. 9 IN TABLE 703.01 IN THE CM&S ON THE SURFACE TO FILL ANY LOW SPOTS IN THE SURFACE. ALSO USE NO. 9 GRANULAR MATERIAL TO FILL VOIDS BETWEEN THE SIDES OF THE BLOCKS AND ADJACENT SOIL OR RETAINING WALL COMPONENTS.

PLACE BLOCKS AS INDICATED ON THE PLANS AND SHOP DRAWINGS. CUT BLOCKS AS NEEDED TO FIT BETWEEN WALL SOLDIER BEAMS. PLACE BLOCKS SO THAT ALL VERTICAL AND HORIZONTAL JOINTS BETWEEN BLOCKS ARE TIGHT. GAPS BETWEEN BLOCKS AND ALONG THE RETAINING WALL SHALL NOT EXCEED 1 INCH. AVOID CONTINUOUS VERTICAL JOINTS BY OFFSETTING AND ROTATING SUCCESSIVE LAYERS OF BLOCKS. OFFSET BLOCKS AT LEAST 2 FEET BETWEEN LAYERS. THE SURFACE OF EACH LAYER OF BLOCKS ON WHICH ANOTHER LAYER WILL BE PLACED MUST BE LEVEL TO WITHIN 0.5 INCH OVER A 10 FT DISTANCE. CONSTRUCT THE SURFACE OF THE UPPERMOST LAYER OF BLOCKS TO THE GRADE SHOWN ON THE PLANS TO A TOLERANCE OF ZERO TO MINUS 2.5 INCHES.

TRIM THE BLOCKS AS REQUIRED USING A SAW OR HOTWIRE.

PLACE CONNECTOR PLATES BETWEEN HORIZONTAL LAYERS OF BLOCKS. PLACE AT LEAST TWO CONNECTOR PLATES PER BLOCK. FURNISH CONNECTOR PLATES MANUFACTURED FROM GALVANIZED STEEL OR STAINLESS STEEL AND THAT ARE BARBED ON BOTH SIDES. EACH CONNECTOR PLATE SHALL HAVE A LATERAL HOLDING STRENGTH OF AT LEAST 60 LBS.

PORTIONS OF THE GEOFOAM FILL THAT ARE NOT BENEATH A CONCRETE DISTRIBUTION SLAB OR CONCRETE APPROACH SLAB MUST BE PROTECTED FROM HYDROCARBON SPILLS (E.G. DIESEL OR GASOLINE) BY COVERING THE GEOFOAM BLOCKS ON THE TOP AND SIDES FURNISH A GEOMEMBRANE MANUFACTURED FROM A TRI-POLYMER MATERIAL CONSISTING OF POLYVINYL CHLORIDE, ETHYLENE INTERPOLYMER ALLOY, AND A POLYURETHANE OR A COMPARABLE POLYMER COMBINATION. THE MATERIAL SHALL MEET THE FOLLOWING PHYSICAL AND CHEMICAL REQUIREMENTS.

THE MATERIAL SHALL MEET THE FOLLOWING PHYSICAL AND CHEMICAL REQUIREMENTS.

1. THICKNESS: MINIMUM 30 MILS (ASTM D751)
2. UNLEADED GASOLINE VAPOR MAXIMUM TRANSMISSION RATE 0.40 OZ. PER SQUARE FOOT PER 24 HOURS (ASTM D814)
3. GRAB TENSILE STRENGTH: MINIMUM 550 LBS BOTH MACHINE AND CROSS DIRECTION (ASTM D751)
4. ELONGATION AT BREAK: 20% MINIMUM (ASTM D751)
5. TOUGHNESS: MINIMUM 11,000 POUNDS (GRAB TENSILE STRENGTH MULTIPLIED BY PERCENT ELONGATION)
6. PUNCTURE RESISTANCE: MINIMUM 750 LB (ASTM D751 BALL TIP)
7. COLD CRACK: PASS AT -30° FAHRENHEIT (ASTM D2136 1 INCH MANDREL, 4 HOURS)
8. FACTORY SEAMS: 2-INCH MINIMUM BONDED WIDTH
9. SHEAR: MINIMUM 320 LB (ASTM D751)

PROVIDE CERTIFIED TEST DATA FROM THE MANUFACTURER THATS DEMONSTRATES THE GEOMEMBRANE MEETS THE ABOVE REQUIREMENTS. OVERLAP THE GEOMEMBRANE A MINIMUM OF 18 INCHES AT THE ENDS AND SIDES. PLACE THE BEGINNING OF EACH NEW ROLL BENEATH THE END OF THE PREVIOUS ROLL TO PREVENT THE ADVANCING FILL FROM LIFTING THE GEOMEMBRANE. STAGGER END OVERLAPS AT LEAST 5 FEET FROM THE OTHER END OVERLAPS IN ADJACENT ROLLS.

DO NOT DRIVE, OPERATE CONSTRUCTION EQUIPMENT, OR PLACE CONCENTRATED LOADS DIRECTLY ON THE BLOCKS. REMOVE AND REPLACE BLOCKS DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS AT NO EXPENSE TO THE DEPARTMENT. PLACE AT LEAST 12 INCHES OF FILL OVER THE TOP OF THE BLOCKS BEFORE BEGINNING COMPACTION.

THE DEPARTMENT WILL MEASURE THE QUANTITY OF EPS GEOFOAM FILL BY THE NUMBER OF CUBIC YARDS COMPLETED AND ACCEPTED IN PLACE. INCLUDE IN THE CONTRACT UNIT PRICE FOR EPS GEOFOAM FILL THE COST OF SITE PREPARATION, GRANULAR MATERIAL, CONNECTOR PLATES, GEOMEMBRANE WRAP, AND OTHER ITEMS WHICH DO NOT HAVE A SEPARATE PAY ITEM BUT ARE NECESSARY TO INSTALL THE EPS GEOFOAM FILL. THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICES AS FOLLOWS:

ITEM	UNIT	DESCRIPTION
203	CY	ROADWAY MISC.: EPS GEOFOAM FILL, TYPE EPS22
203	CY	ROADWAY MISC.: EPS GEOFOAM FILL, TYPE EPS29

Preliminary Plans - For Reference Only

GENERAL NOTES
RETAINING WALL 7

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 3 | TOTAL 8

SHEET P.994 | TOTAL P.1269

CUY-77-11.41 - PART 1

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ESTIMATED QUANTITIES (WALL 7)

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	5
203	35120	378	CY	GRANULAR MATERIAL, TYPE C	2
203	98000	99	CY	ROADWAY, MISC.: EPS GEOFOAM FILL TYPE EPS22	3
203	98000	37	CY	ROADWAY, MISC.: EPS GEOFOAM FILL TYPE EPS29	3
507	00400	466	FT	STEEL PILES, MISC.: SOLDIER PILES, W36x256	2
509	10000	7449	LB	EPOXY COATED STEEL REINFORCEMENT	
510	10000	48	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
511	46013	63	CY	CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN	
512	10101	193	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	2
512	33001	9	SY	TYPE 2 WATERPROOFING, AS PER PLAN	2
513	20001	386	EACH	WELDED STUD SHEAR CONNECTORS, AS PER PLAN	
516	13900	58	SF	2" PREFORMED EXPANSION JOINT FILLER	
518	20000	124	SY	PREFABRICATED GEOCOMPOSITE DRAIN	
518	21200	10	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
518	40000	62	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
518	40010	19	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
524	94915	280	FT	DRILLED SHAFTS, 60" DIAMETER, ABOVE BEDROCK, AS PER PLAN	2

Preliminary Plans - For Reference Only

ESTIMATED QUANTITIES
RETAINING WALL 7

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 4 | TOTAL 8

SHEET P.995 | TOTAL P.1269

CUY-77-11.41 - PART 1

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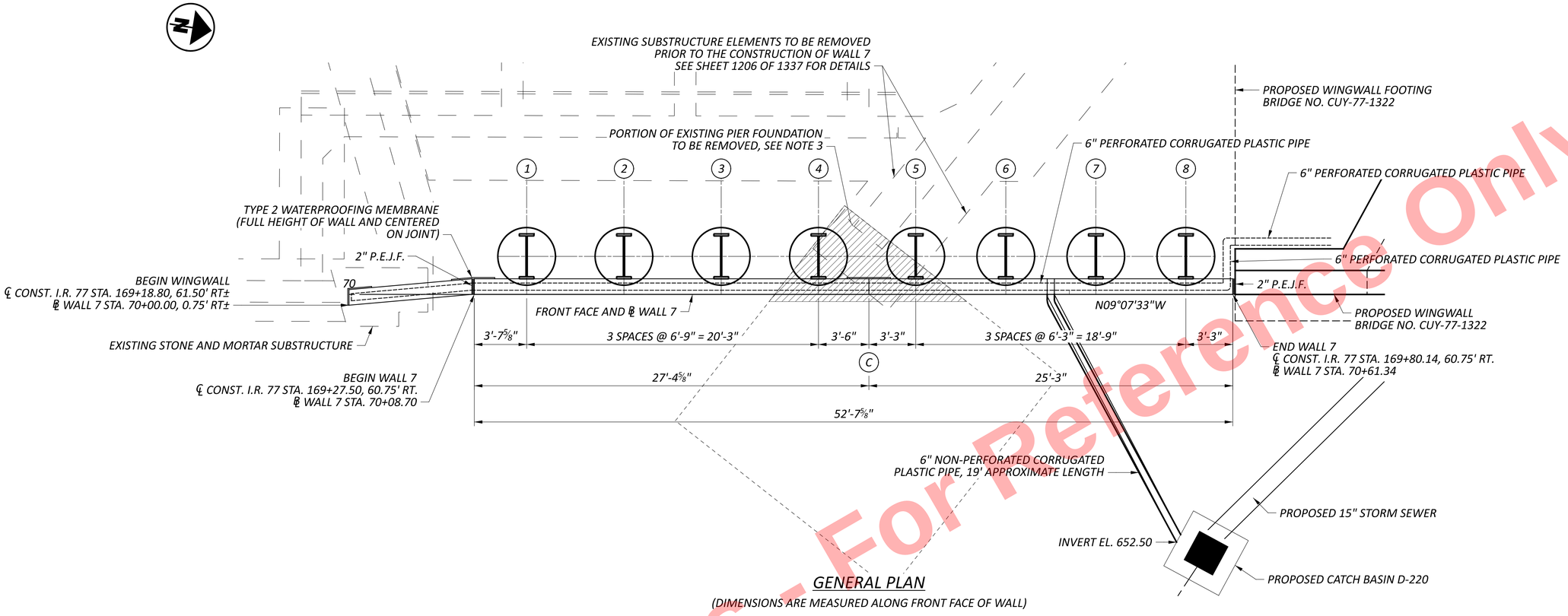
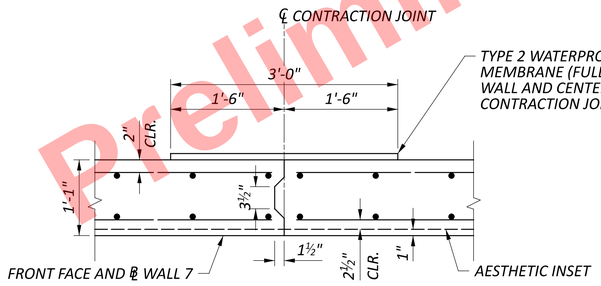
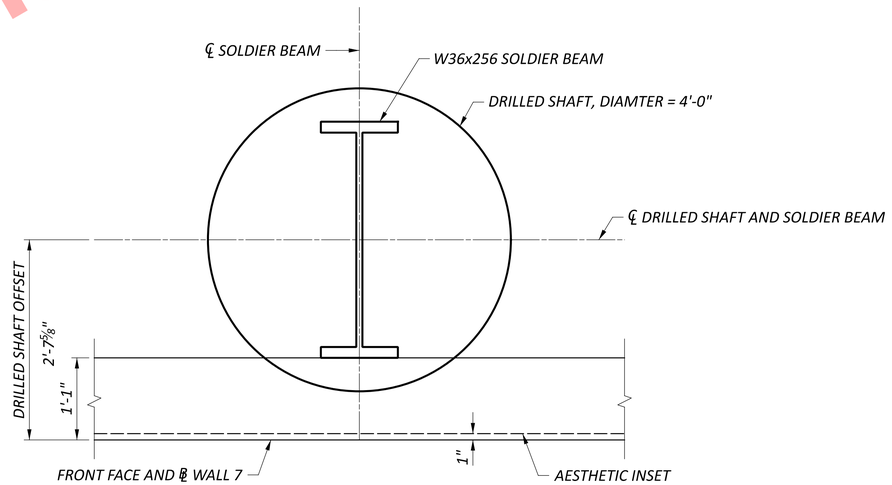


GENERAL PLAN

(DIMENSIONS ARE MEASURED ALONG FRONT FACE OF WALL)



CONTRACTION JOINT DETAIL



DRILLED SHAFT LOCATION DETAIL

LEGEND:

- (I) - DENOTES DRILLED SHAFT WITH SOLDIER BEAM
- (#) - DRILLED SHAFT NUMBER
- (C) - CONTRACTION JOINT

NOTES:

1. FOR WALL ELEVATION VIEW, SEE SHEET 6/8.
2. FOR SIZES AND OFFSET DIMENSIONS OF DRILLED SHAFTS AND SOLDIER BEAMS, SEE SHEET 7/8.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING PIER FOUNDATION INCLUDING TIMBER PILES TO LIMITS THAT PROVIDE AT LEAST 1'-0" CLEARANCE TO THE PROPOSED FACE OF WALL 7. SINCE THE PEDESTAL FOUNDATION IS ANTICIPATED TO REMAIN AT LEAST ONE FOOT BELOW THE FINISHED GRADE, NO FURTHER REMOVAL IS NECESSARY, BUT THE CONTRACTOR MAY EXTEND REMOVAL LIMITS FOR CONVENIENCE OF CONSTRUCTION. ALL LABOR AND EQUIPMENT REQUIRED FOR THIS WORK AND FOR THE DISPOSAL OF MATERIALS SHALL BE PAID AT THE CONTRACT PRICE FOR ITEM 202 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN.

Preliminary Plans - For Reference Only

PILE LAYOUT AND GEOMETRY SCHEMATIC
RETAINING WALL 7

DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 5 | TOTAL: 8
SHEET: P.996 | TOTAL: P.1269

CUY-77-11.41 - PART 1

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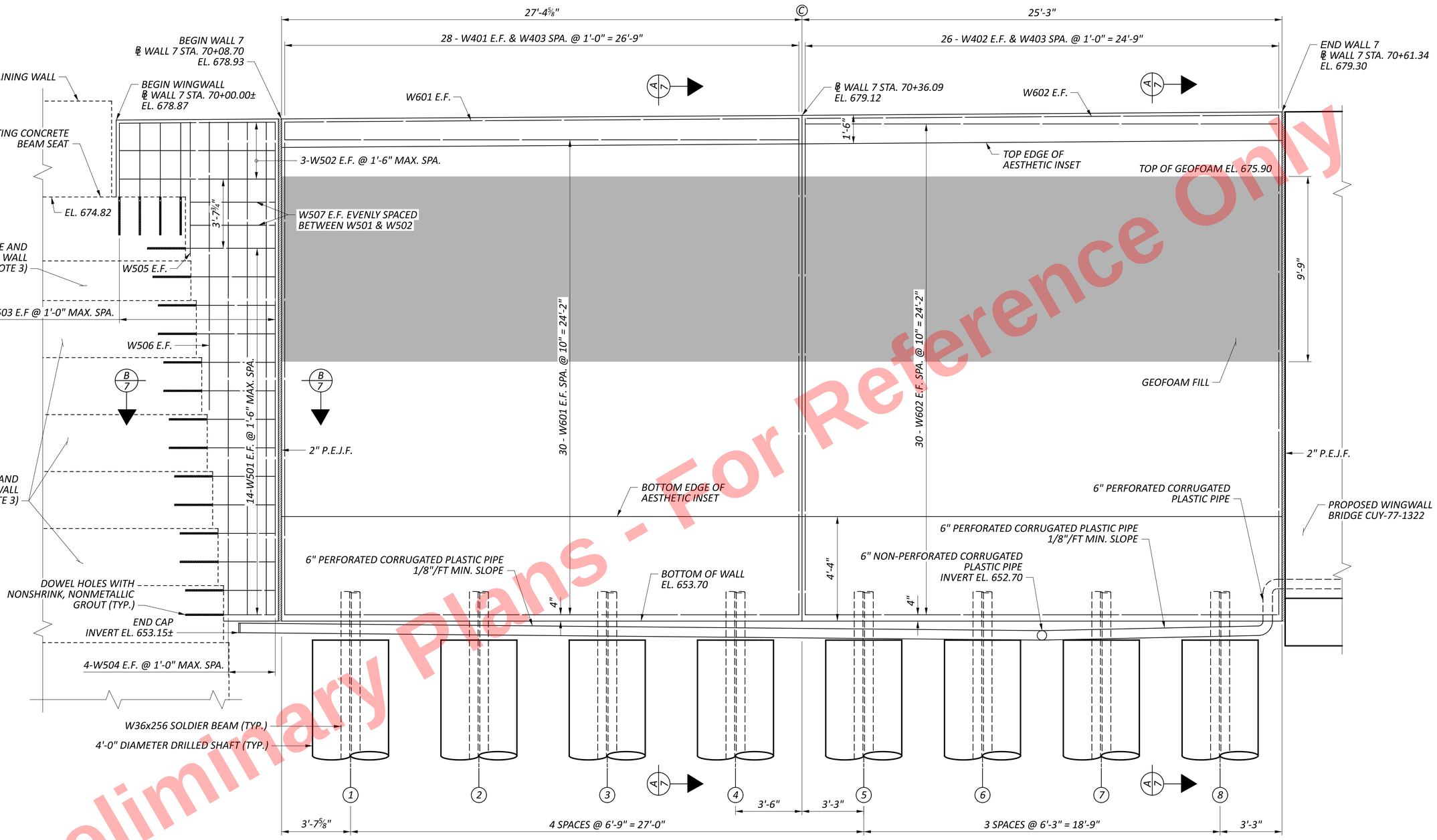

MINIMUM LAP LENGTHS	
NO. 4 BAR	1'-11"

ELEVATION

NOTES:

1. ALL DIMENSIONS AND STATIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/8.
3. PRIOR TO DRILLING FOR SHAFT 1, THE CONTRACTORSHALL VERIFY THE LOCATION OF THE EXISTING STONE BLOCK WINGWALL OF THE 49TH STREET (CR 378) BRIDGE BY EXCAVATION, PROBING, BORING, OR OTHER METHODS SATISFACTORY TO THE ENGINEER.
4. PAYMENT FOR ALL FORMWORK, MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO PRODUCE THE AESTHETIC WALL FACING PATTERN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 511, CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN.

LEGEND:

(#) - DRILLED SHAFT NUMBER

(C) - CONTRACTION JOINT

Preliminary Plans - For Reference Only

WALL ELEVATION
RETAINING WALL 7

DESIGN AGENCY: TRC

DESIGNER: CEJ

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 6 | TOTAL: 8

SHEET: P.997 | TOTAL: P.1269

CUY-77-11.41 - PART 1

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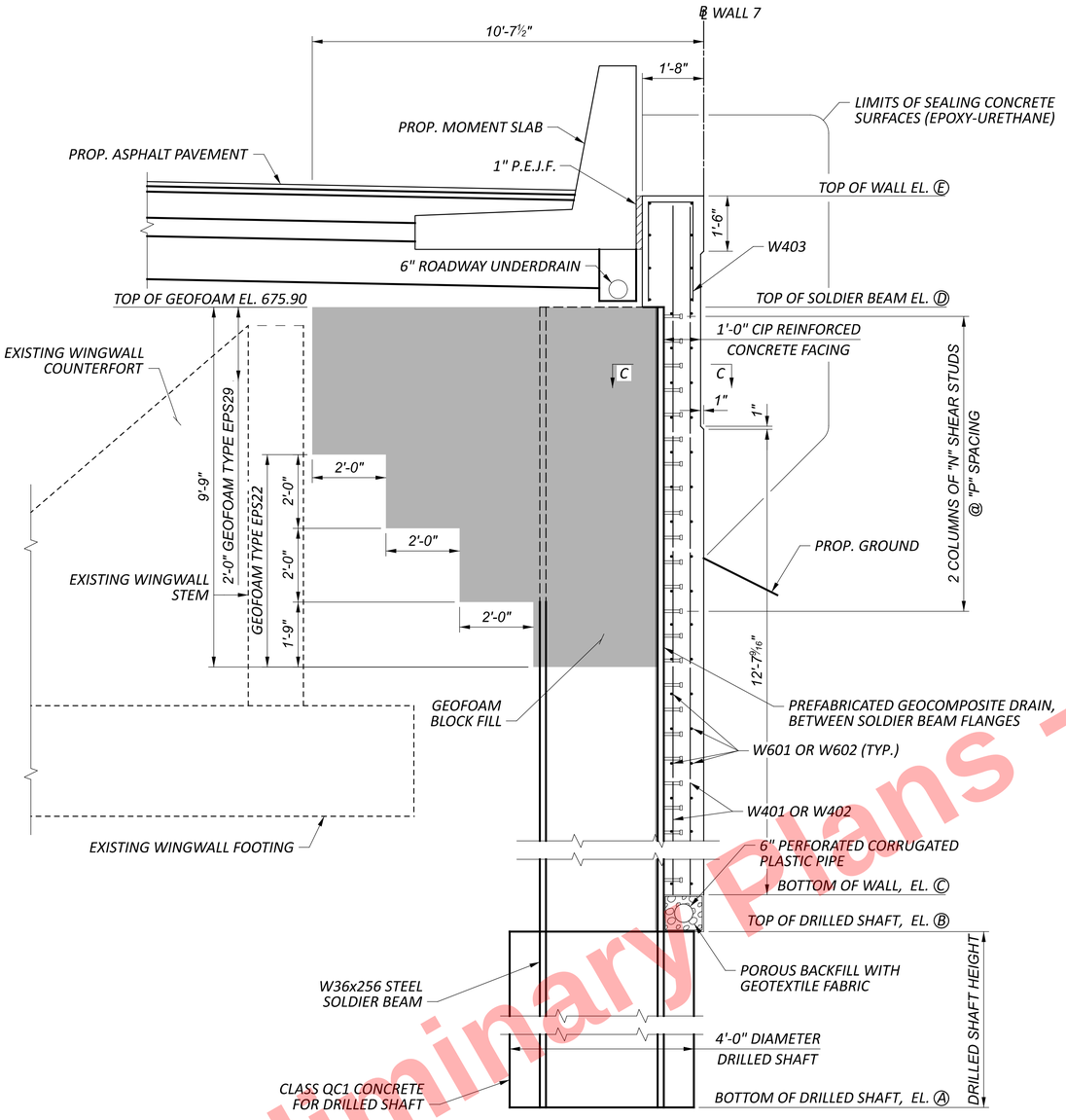
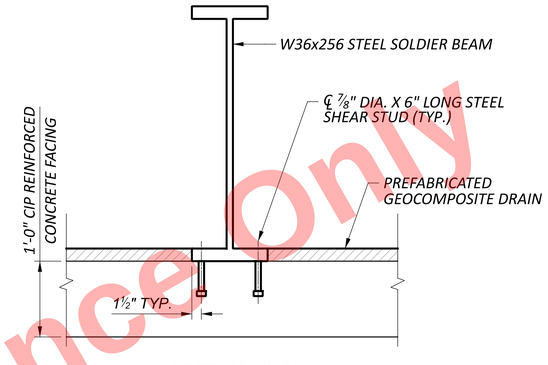
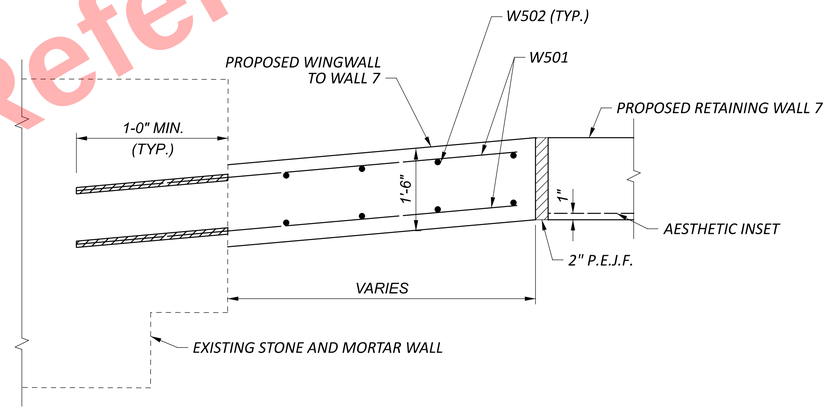


SECTION A-A



SECTION C-C



SECTION B-B

DRILLED SHAFT NUMBER	WALL 7 STATION	OFFSET	BOTT. OF SHAFT ELEVATION (EL. A)	TOP OF SHAFT ELEVATION (EL. B)	BOTT. OF WALL ELEVATION (EL. C)	TOP OF SOLDIER BEAM ELEV. (EL. D)	TOP OF WALL ELEVATION (EL. E)	LENGTH OF SOLDIER BEAM (FEET)	DRILLED SHAFT DIAMETER (INCHES)	SOLDIER BEAM SIZE	NUM. OF SHEAR STUD PAIRS (N)	SPACING OF SHEAR STUDS (P)
1	70+12.34	2.64 LT	617.70	652.70	653.70	675.71	678.96	58.01	48.00	W36X256	23	11.50 in
2	70+19.09	2.64 LT	617.70	652.70	653.70	675.75	679.00	58.05	48.00	W36X256	23	11.75 in
3	70+25.84	2.64 LT	617.70	652.70	653.70	675.80	679.05	58.10	48.00	W36X256	23	11.75 in
4	70+32.59	2.64 LT	617.70	652.70	653.70	675.85	679.10	58.15	48.00	W36X256	23	11.75 in
5	70+39.34	2.64 LT	617.70	652.70	653.70	675.90	679.15	58.20	48.00	W36X256	23	11.75 in
6	70+45.59	2.64 LT	617.70	652.70	653.70	675.94	679.19	58.24	48.00	W36X256	23	11.75 in
7	70+51.84	2.64 LT	617.70	652.70	653.70	675.98	679.23	58.28	48.00	W36X256	23	11.75 in
8	70+58.09	2.64 LT	617.70	652.70	653.70	676.03	679.28	58.33	48.00	W36X256	23	11.75 in

NOTES:

1. AT THE CONTRACTOR'S OPTION, THE SOLDIER BEAM SIZE MAY BE INCREASED AT NO ADDITIONAL COST TO THE DEPARTMENT. THE PROPOSED BEAM SIZE MUST HAVE A SECTION MODULUS EQUAL TO OR GREATER THAN THE BEAM SIZE SPECIFIED. IN ADDITION, THE PROPOSED BEAM MUST ALLOW AT LEAST 3 INCHES OF CLEARANCE BETWEEN THE FLANGES AND THE SIDE OF THE DRILLED SHAFT.
2. THE NOMINAL CONCRETE FACING THICKNESS IS 12 INCHES. TO ADDRESS MISALIGNMENT OF SOLDIER BEAMS, THE CONTRACTOR MAY PROVIDE ADDITIONAL THICKNESS BUT AT NO ADDITIONAL COST TO THE DEPARTMENT.
3. INSTALL THE PREFABRICATED GEOCOMPOSITE DRAIN (PGD) BETWEEN SOLDIER BEAMS IN ACCORDANCE WITH CMS 518.06. WHERE TIMBER LAGGING IS PLACED, THE PGD SHALL BE SECURED TO THE LAGGING. IF LAGGING IS NOT REQUIRED BECAUSE THE PORTION OF THE WALL IS ABOVE THE EXISTING GROUND, THE PGD SHALL BE ATTACHED TO THE BACK SURFACE OF THE CONCRETE WALL FACING. PGD SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BELOW THE WALL FACING.
4. GEOFOAM BLOCKS APPROXIMATELY 2'x2' AND 2'x4' IN SIZE ARE SHOWN FOR ILLUSTRATION. THE CONTRACTOR MAY USE OTHER BLOCK SIZES BUT THE GEOFOAM PLACEMENT SHALL MEET THE LIMITS DIMENSIONED IN THE PLANS.
5. FOR DRILLED SHAFT LAYOUT PLAN, SEE SHEET 5/8.
6. FOR WALL ELEVATION, SEE SHEET 6/8.
7. GRANULAR MATERIAL, TYPE C, COMPACTED PER CMS 203, SHALL BE PLACED BETWEEN THE PROPOSED WALL FACING AND THE EXISTING ABUTMENT WINGWALL UP TO THE ELEVATION OF GEOFOAM FILL.
8. FOR LOCATIONS OF SECTIONS A-A AND B-B, SEE SHEET 6/8.

Preliminary Plans - For Reference Only

TYPICAL SECTION AND SOLDIER PILE DIMENSION TABLE
RETAINING WALL 7

DESIGN AGENCY TRC
DESIGNER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 7 TOTAL 8
SHEET P.998 TOTAL P.1269

CUY-77-11.41 - PART 1

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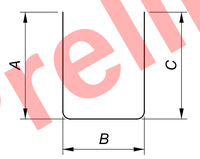
MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
W401	56	24'-10"	929	STR							
W402	52	25'-1"	871	STR							
W403	54	5'-6"	198	2	2'-3"	1'-2"	2'-3"				
*W501	28	6'-8"	195	STR							
W502	6	8'-2"	51	STR							
*W503	16	6'-0"	100	STR							
W504	8	24'-10"	207	STR							
W505	2	7'-0"	15	STR							
W506	2	15'-0"	31	STR							
W507	4	4'-5"	18	STR							
W601	62	27'-0"	2514	STR							
W602	62	24'-11"	2320	STR							
SUB-TOTAL			7,449								



TYPE-2

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. ALL REINFORCING STEEL TO BE EPOXY COATED.

* DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT..

Preliminary Plans - For Reference Only

REINFORCING STEEL LIST
RETAINING WALL 7

DESIGN AGENCY TRC

DESIGNER CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET 8 | TOTAL 8

SHEET P.999 | TOTAL P.1269

CUY-77-11.41 - PART 1

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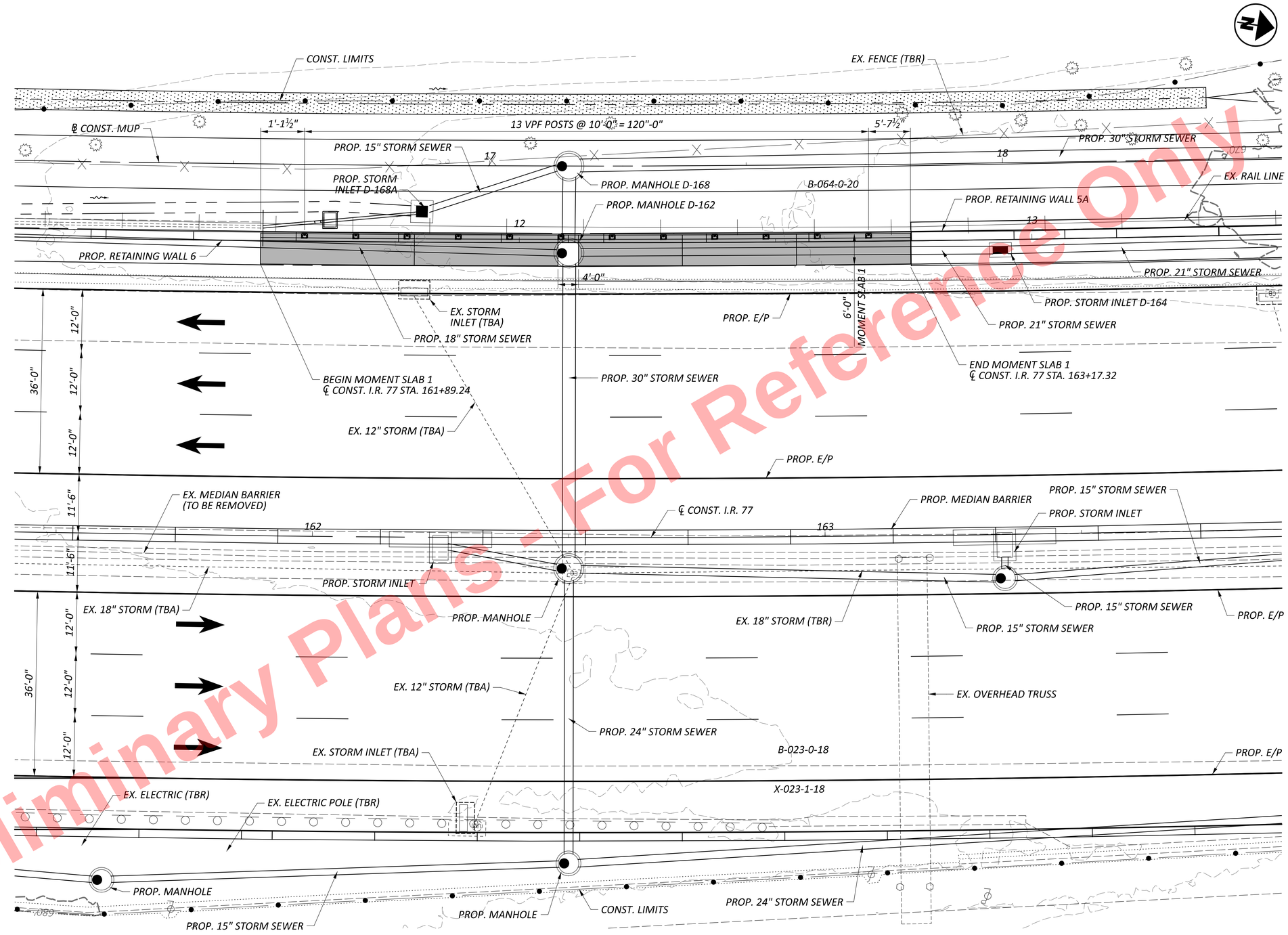

Preliminary Plans - Not For Reference Only

LEGEND:

- LIMITS OF PROPOSED MOMENT SLABS
- SOIL BORING OR PAVEMENT CORING LOCATION

NOTES:

1. MOMENT SLAB 1 SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A, 1B, AND 1C.

GENERAL PLAN 1 OF 4
MOMENT SLABS

DESIGN AGENCY
TRC

DESIGNER JCP
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 1 | TOTAL 9
SHEET P.1000 | TOTAL P.1269

CUY-77-11.41 - PART 1

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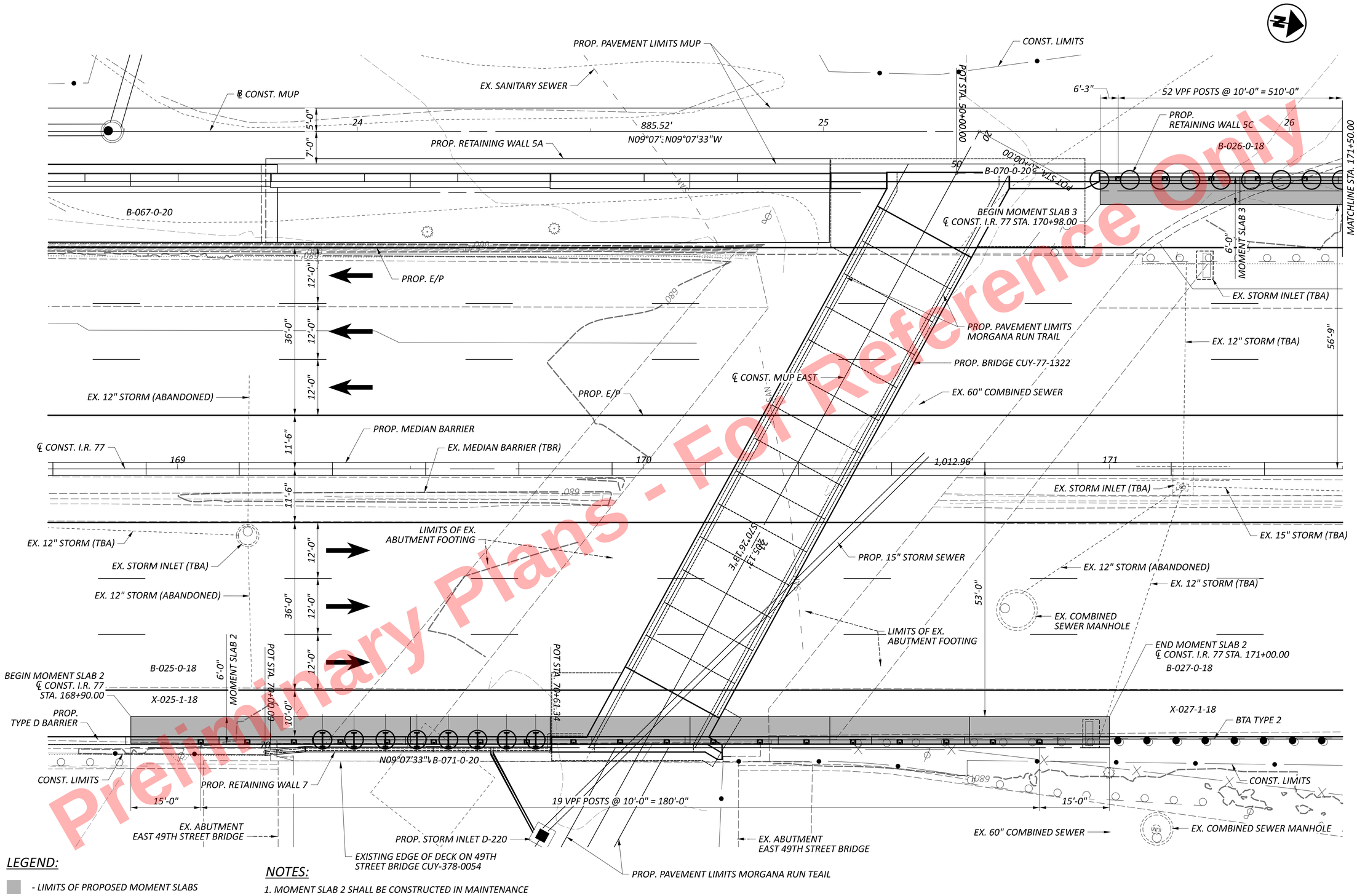
Preliminary Plans - Not For Reference Only



LEGEND:

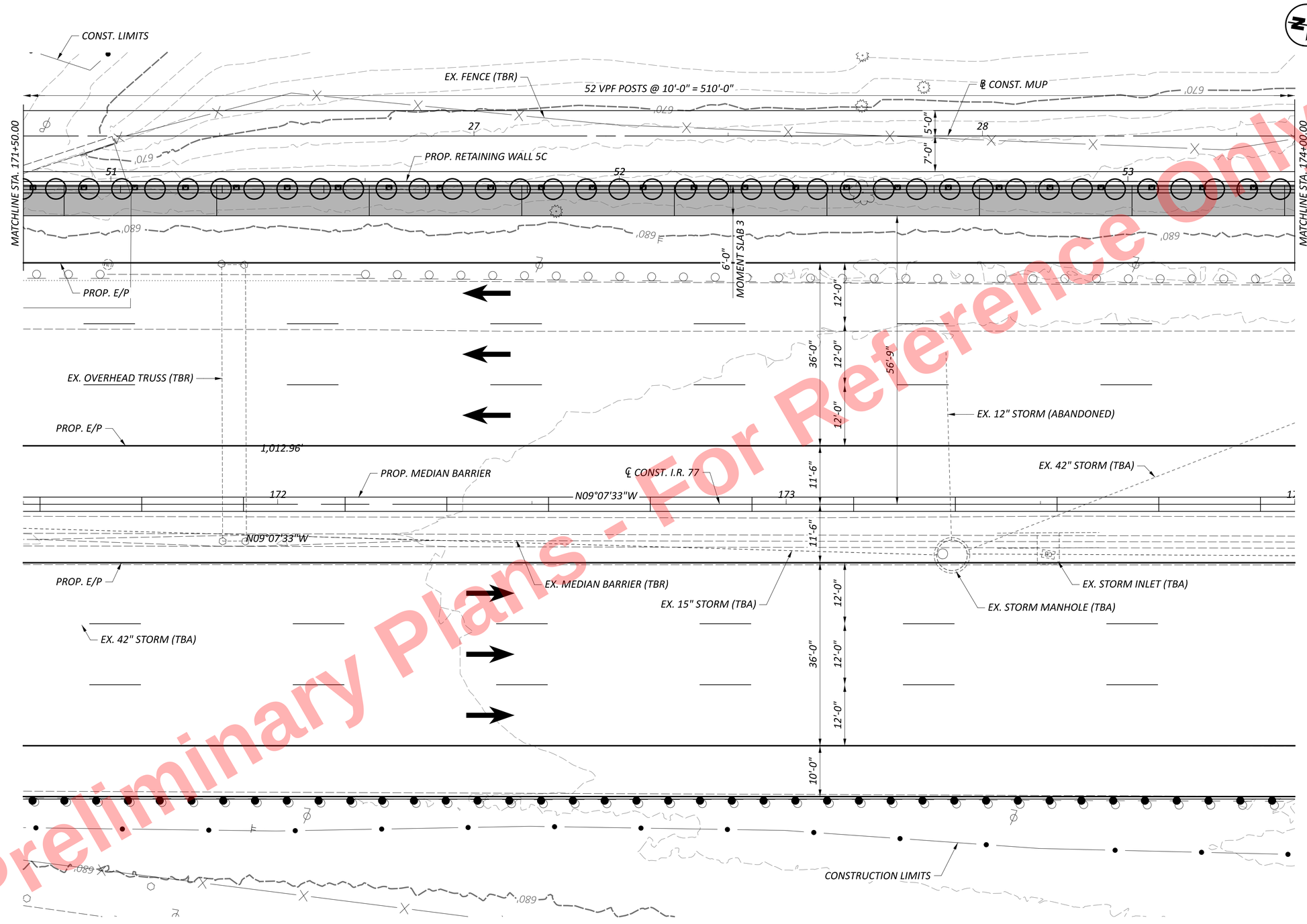
- ▒ - LIMITS OF PROPOSED MOMENT SLABS
- ⌖ - SOIL BORING OR PAVEMENT CORING LOCATION

NOTES:

1. MOMENT SLAB 2 SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 3A, 3B, AND 3C.
2. MOMENT SLAB 3 SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A, 1B, AND 1C.

GENERAL PLAN 2 OF 4
MOMENT SLABS

DESIGN AGENCY	TRC
DESIGNER	JCP
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	2
TOTAL	9
SHEET	P.1001
TOTAL	P.1269



Preliminary Plans - For Reference Only

LEGEND:

- LIMITS OF PROPOSED MOMENT SLABS

NOTES:

1. MOMENT SLAB 3 SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A, 1B, AND 1C.

CUY-77-11.41 - PART 1

MODEL: MS Plan Sheet 3 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:51:40 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCivil02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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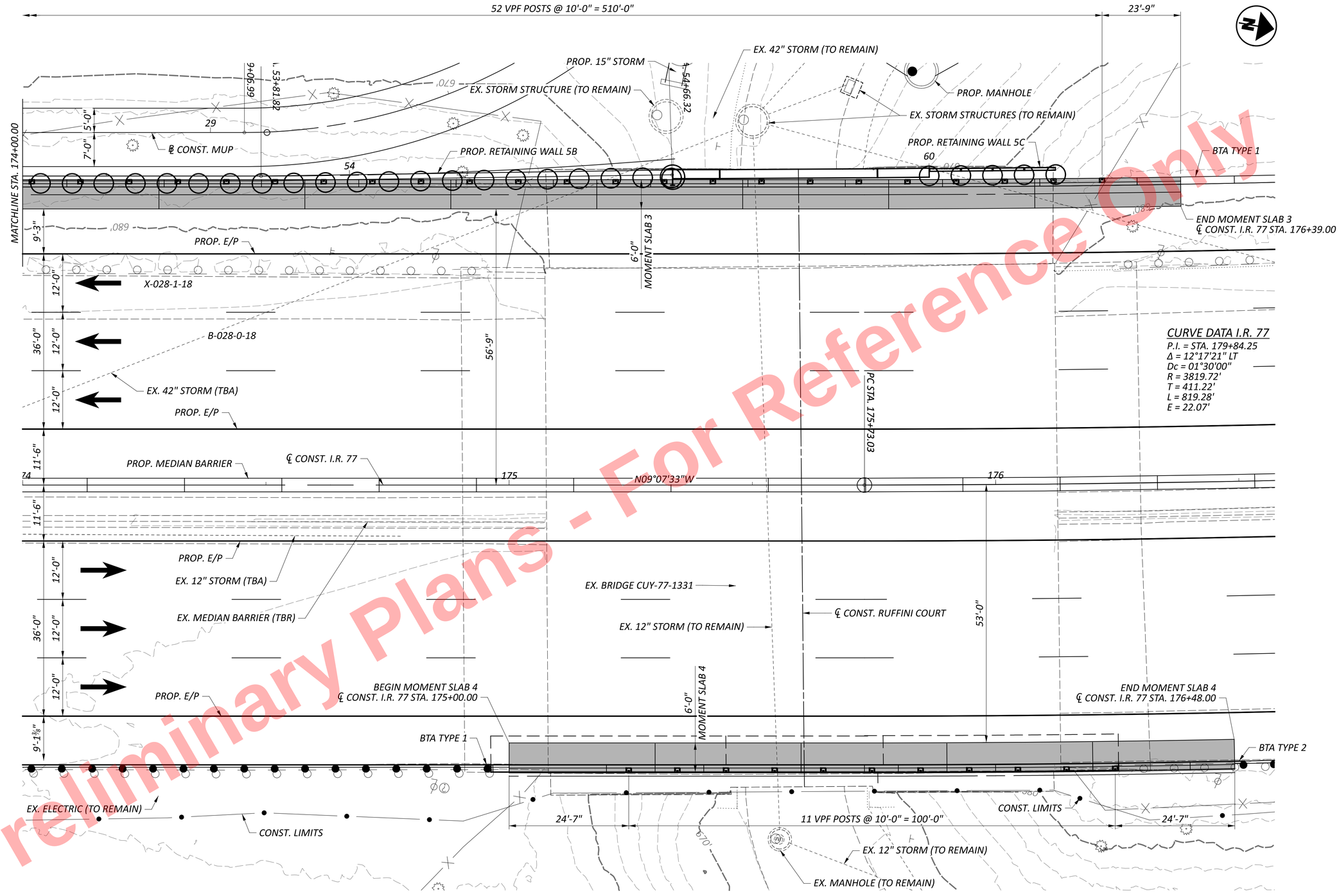
GENERAL PLAN 3 OF 4
MOMENT SLABS

DESIGN AGENCY: TRC

DESIGNER	JCP
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET / TOTAL	3 / 9
SHEET / TOTAL	P.1002 / P.1269



Preliminary Plans - Not For Reference Only

LEGEND:

- ▒ - LIMITS OF PROPOSED MOMENT SLABS
- ⌖ - SOIL BORING OR PAVEMENT CORING LOCATION

NOTE:

1. MOMENT SLAB 3 SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A, 1B, AND 1C.
2. MOMENT SLAB 4 SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 3A, 3B, AND 3C.

GENERAL PLAN 4 OF 4
MOMENT SLABS

DESIGN AGENCY: TRC

DESIGNER	JCP
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET / TOTAL	4 / 9
SHEET / TOTAL	P.1003 / P.1269

CUY-77-11.41 - PART 1

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STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD DRAWINGS:

BP-2.2	DATED (REVISED)	1-15-21
SBR-1-20	DATED (REVISED)	7-19-24
VPF-1-24	DATED (REVISED)	1-17-25

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 10TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN DATA

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI

EPOXY COATED REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI

ITEM 511 - QC2 CONCRETE, MISC.: MOMENT SLAB, WITH QC/QA

THIS PAY ITEM IS FOR CONSTRUCTION OF THE CAST-IN-PLACE CONCRETE MOMENT SLABS. PAYMENT SHALL INCLUDE CONCRETE, TRANSVERSE JOINT DOWELS, AND CONTRACTION JOINT SAWCUTS.

ITEM 511 - QC2 CONCRETE, MISC.: BARRIER ON MOMENT SLAB, WITH QC/QA

THIS PAY ITEM IS FOR CONSTRUCTION OF THE CAST-IN-PLACE MOMENT SLAB BARRIERS. PAYMENT SHALL INCLUDE CONCRETE AND CONTRACTION JOINT SAWCUTS.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE MOMENT SLAB BARRIERS AS DETAILED IN THE PLANS WITH AN EPOXY-URETHANE SEALER AS PER CMS 512.

THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

C|L - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

ITEM 607 - VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC, AS PER PLAN

THIS ITEM SHALL BE AS PER THE DETAILS IN THE PLAN, THE APPLICABLE PORTIONS OF STANDARD DRAWING VPF-1-24, AND THE MANUFACTURER'S RECOMMENDATIONS.

THE ANCHORS ON THE TOP OF THE PROPOSED CONCRETE BRIDGE RAILING SHALL BE CAST IN PLACE WITH A 6" OR 7" MINIMUM EMBEDMENT LENGTH, AS SHOWN ON THE STANDARD DRAWING FOR THE SPECIFIED BASE PLATE TYPE.

AT LOCATIONS WHERE THE FENCE SPANS ACROSS AN EXPANSION JOINT IN THE BRIDGE RAILING AT AN INTEGRAL OR SEMI-INTEGRAL ABUTMENT, DO NOT INSTALL LINE RAILS AND EXPANSION JOINT SLEEVES; HOWEVER, THE FABRIC SHALL REMAIN CONTINUOUS ACROSS THE EXPANSION JOINT.

THE COLOR OF THE FENCE FABRIC, RAILS, POSTS, PLATES, TIE WIRES, AND ADDITIONAL VISUAL HARDWARE AND CAULK SHALL BE BLACK.

PAYMENT FOR THE ABOVE SHALL BE AT THE UNIT PRICE BID PER FOOT FOR ITEM 607 - VANDAL PROTECTION FENCE 6' STRAIGHT, COATED FABRIC, AS PER PLAN WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ESTIMATED QUANTITIES (MOMENT SLABS)

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
509	10000	52915	LB	EPOXY COATED STEEL REINFORCEMENT	
511	53012	256	CY	CLASS QC2 CONCRETE, MISC.: MOMENT SLAB, WITH QC/QA	5
511	53012	175	CY	CLASS QC2 CONCRETE, MISC.: BARRIER ON MOMENT SLAB, WITH QC/QA	5
512	10101	901	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	5
516	13600	112	SF	1" PREFORMED EXPANSION JOINT FILLER	
516	31000	42	FT	JOINT SEALER	
607	39900	917	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC, AS PER PLAN	

Preliminary Plans - For Reference Only

DESIGN AGENCY
TRC
DESIGNER
JCP
REVIEWER
CJW 08/02/25
PROJECT ID
105743
SUBSET 5 | TOTAL 9
SHEET P.1304 | TOTAL P.1269

CUY-77-11.41 - PART 1
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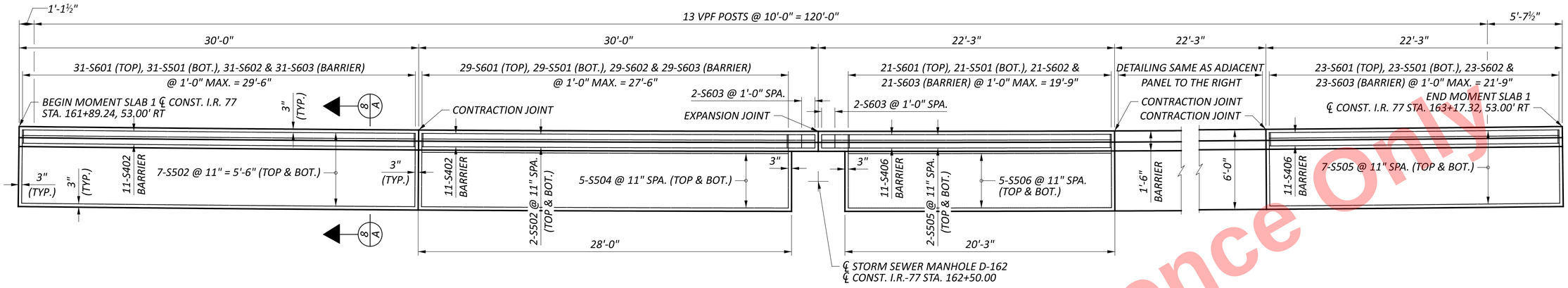
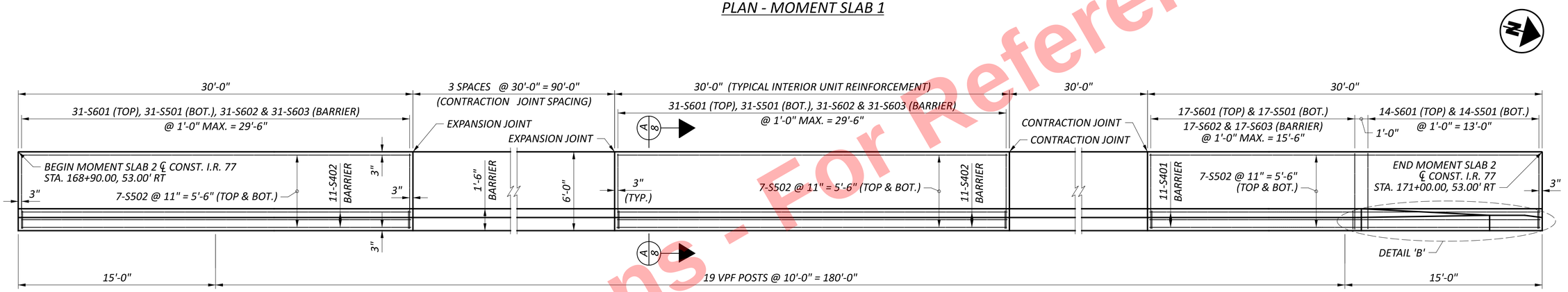
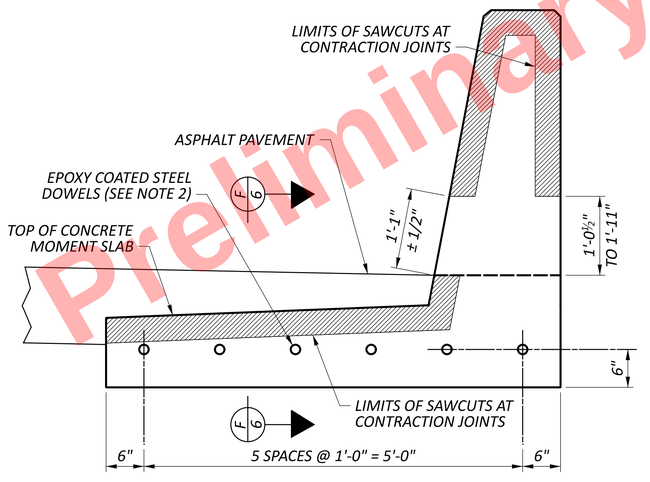


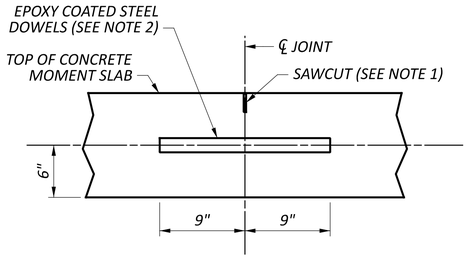
PLAN - MOMENT SLAB 1



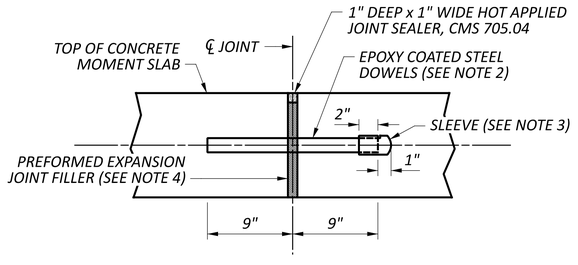
PLAN - MOMENT SLAB 2



JOINT DETAIL



SECTION F-F CONTRACTION JOINT



SECTION F-F EXPANSION JOINT

NOTES:

1. SAWCUTS SHALL BE 1/4" +/-1/16" WIDE WITH 4" DEPTH. IF EARLY ENTRY SAWS ARE USED, CUTS SHALL BE 1/8" WIDE WITH DEPTH OF 2 1/4" TO 2 1/2". SEAL THE PERIMETER OF SAWCUTS IN ACCORDANCE WITH SBR-120 REQUIREMENTS FOR CONCRETE RAILING DEFLECTION JOINTS.
2. DOWELS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH CMS 451.09B AND 709.13.
3. INSTALL SLEEVES ON OPPOSITE ENDS OF ADJACENT DOWELS.
4. EXPANSION JOINT FILLER SHALL EXTEND ACROSS THE FULL SECTION AREA OF THE BARRIER IN ADDITION TO THE MOMENT SLAB AS DETAILED.
5. FOR DETAIL 'A', DETAIL 'B', AND SECTION A-A, SEE SHEET 8 OF 9.
6. A STRUCTURE GROUNDING SYSTEM AT BRIDGE NO. CUY-77-1322 SHALL BE INSTALLED AND BONDED TO THE VANDAL PROTECTION FENCE ON MOMENT SLAB 2 IN ACCORDANCE WITH STANDARD DRAWING HL-50.21. FOR PAYMENT, REFER TO ITEM 625, SERVICE TO UNDERPASS LIGHTING, AS PER PLAN, IN THE LIGHTING PLAN NOTES.

Preliminary Plans - For Reference Only

REINFORCEMENT PLAN MOMENT SLABS

DESIGN AGENCY: TRC
DESIGNER: JCP
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 6 TOTAL: 9
SHEET: P.1005 TOTAL: P.1269

CUY-77-11.41 - PART 1

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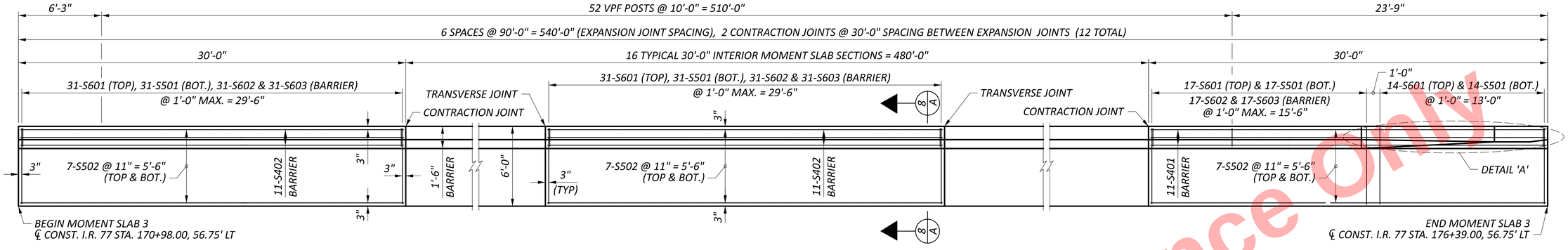
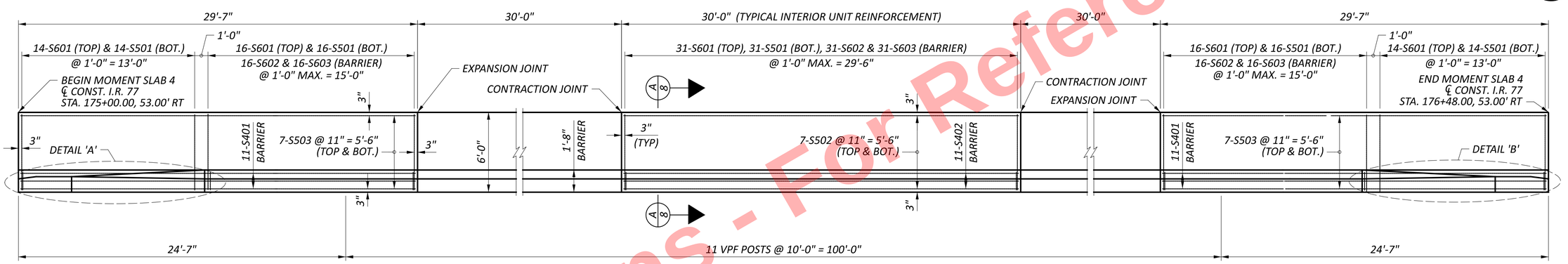


PLAN - MOMENT SLAB 3



PLAN - MOMENT SLAB 4

MOMENT SLAB 1	
IR 77 STATION	BOTT. OF SLAB ELEVATION
161+89.24	675.29
162+19.55	675.09
162+49.87	674.90
162+72.35	674.78
162+94.83	674.66
163+17.32	674.56

MOMENT SLAB 2	
IR 77 STATION	BOTT. OF SLAB ELEVATION
168+90.00	677.19
169+20.00	677.40
169+50.00	677.61
169+80.00	677.82
170+10.00	678.03
170+40.00	678.24
170+70.00	678.45
171+00.00	678.65

MOMENT SLAB 3	
IR 77 STATION	BOTT. OF SLAB ELEVATION
170+98.00	678.49
171+28.00	678.70
171+58.00	678.91
171+88.00	679.12
172+18.00	679.33
172+48.00	679.54
172+78.00	679.75
173+08.00	679.95
173+38.00	680.16
173+68.00	680.37
173+98.00	680.53
174+28.00	680.61
174+58.00	680.68
174+88.00	680.72
175+18.00	680.73
175+48.00	680.72
175+78.10	680.68
176+08.55	680.61
176+39.00	680.50

MOMENT SLAB 4	
IR 77 STATION	BOTT. OF SLAB ELEVATION
175+00.00	682.28
175+29.58	682.58
175+59.58	682.86
175+89.23	683.10
176+18.82	683.29
176+48.00	683.43

NOTES:

1. A STRUCTURE GROUNDING SYSTEM AT BRIDGE NO. CUY-77-1331 SHALL BE INSTALLED AND BONDED TO THE VANDAL PROTECTION FENCE ON MOMENT SLAB 4 IN ACCORDANCE WITH STANDARD DRAWING HL-50.21. FOR PAYMENT, REFER TO ITEM 625, SERVICE TO UNDERPASS LIGHTING, AS PER PLAN, IN THE LIGHTING PLAN NOTES.
2. FOR DETAILS OF EXPANSION AND CONTRACTION JOINTS, SEE SHEET 6 OF 9.
3. FOR DETAIL 'A', DETAIL 'B', AND SECTION A-A, SEE SHEET 8 OF 9.

Preliminary Plans - For Reference Only

REINFORCEMENT PLAN AND ELEVATION TABLES
MOMENT SLABS

DESIGN AGENCY TRC
DESIGNER JCP
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 7 TOTAL 9
SHEET P.1006 TOTAL P.1269

CUY-77-11.41 - PART 1

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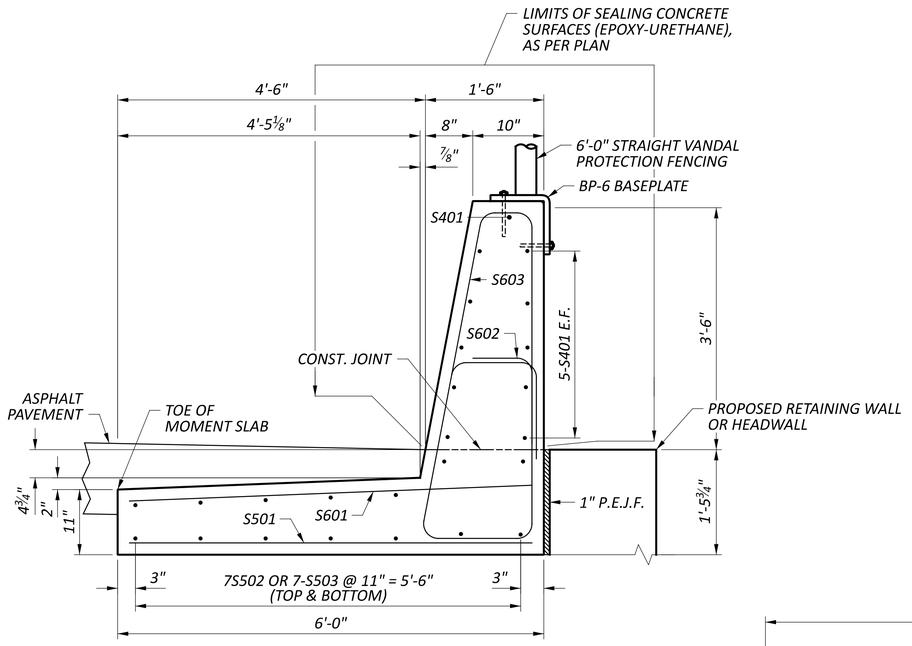
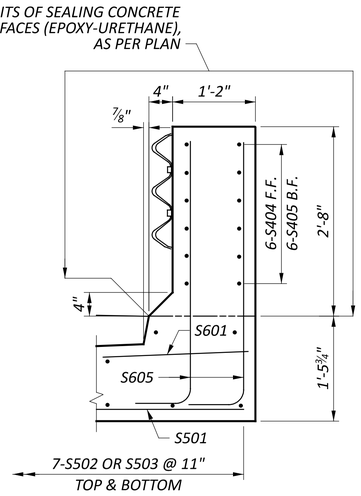
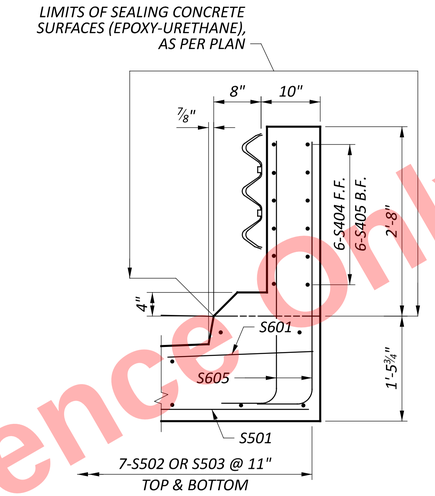


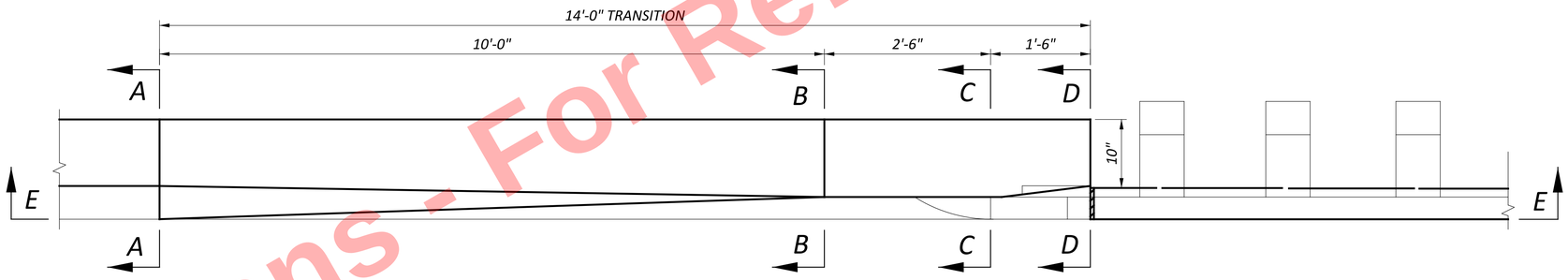
SECTION A-A



SECTION C-C

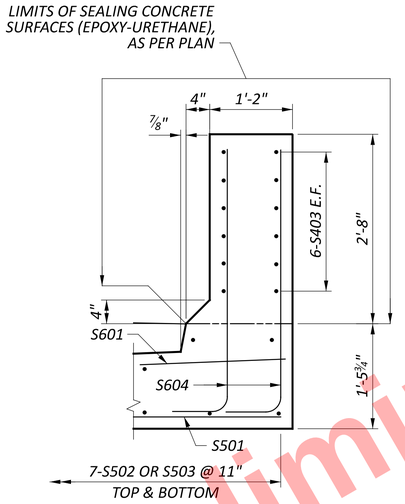


SECTION D-D

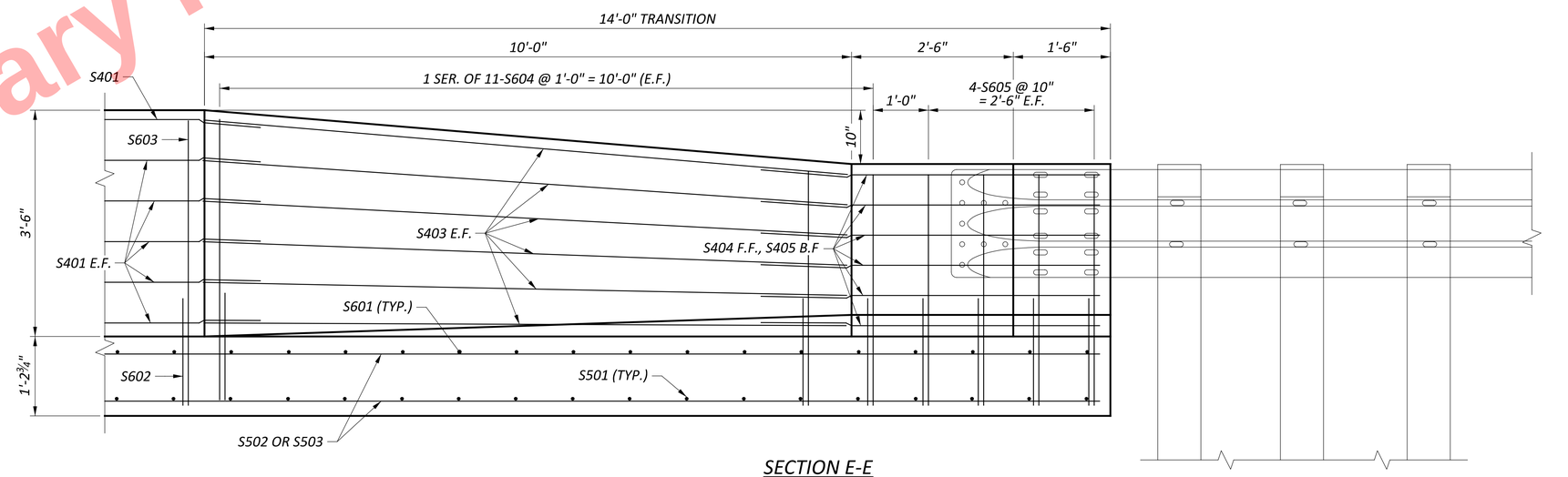


DETAIL 'A'

(DETAIL 'B' SIMILAR, OPPOSITE HAND)



SECTION B-B



SECTION E-E

NOTES:

1. FOR REINFORCING STEEL LIST, SEE SHEET 9 OF 9.

Preliminary Plans - For Reference Only

JOINT DETAILS AND SECTIONS
MOMENT SLABS

DESIGN AGENCY
TRC

DESIGNER	JCP
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET / TOTAL	8 / 9
SHEET / TOTAL	P.1007 / P.1269

CUY-77-11.41 - PART 1

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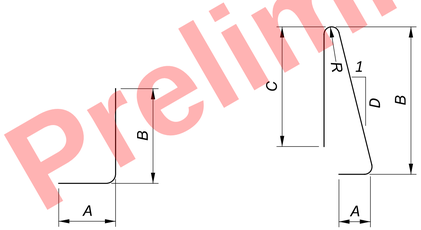
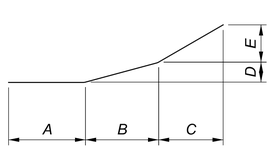
MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
S401	44	16'-11"	497	STR							
S402	308	29'-8"	6104	STR							
S403	48	10'-0"	321	STR							
S404	24	6'-5"	103	25	2'-6"	2'-5"	1'-5"	0'-1 ½"	0'-5"		
S405	24	6'-1"	98	STR							
S406	33	21'-9"	479	STR							
S501	1055	5'-8"	6235	STR							
S502	410	29'-8"	12686	STR							
S503	28	29'-3"	854	STR							
S504	10	27'-6"	287	STR							
S505	32	21'-9"	726	STR							
S506	10	19'-9"	206	STR							
S601	1055	5'-8"	8979	STR							
S602	999	8'-0"	8503	37	0'-9 ½"	2'-7"	0'-7"	1'-0"	0'-5 ¼"		
S603	1003	5'-8"	5971	23	0'-6"	3'-3"	3'-3"	0'-5"		0'-2"	
	8	4'-6"				3'-8"					
S604	SER. OF	TO	650	1	1'-0"	TO					0'-1"
	11	5'-4"				4'-6"					
S605	32	4'-6"	216	1	1'-0"	3'-8"					
		TOTAL	52915								



TYPE-1

TYPE-23



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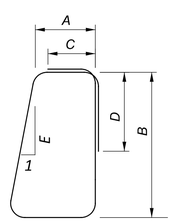

TYPE-37

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATE THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. ALL REINFORCING STEEL TO BE EPOXY COATED.

Preliminary Plans - For Reference Only

REINFORCING STEEL LIST
MOMENT SLABS

DESIGN AGENCY TRC
DESIGNER JCP
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 9 | TOTAL 9
SHEET P.1008 | TOTAL P.1269

CUY-77-11.41 - PART 1

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ITEM 611 - 24" CONDUIT, TYPE B, AS PER PLAN, 748.01

THE CONTRACTOR SHALL PERFORM THIS ITEM BY USING AN OPEN CUT EXCAVATION FOR THE PIPE SPECIFIED AS 24" CONDUIT, TYPE B, AS PER PLAN. THE INSTALLATION OF THIS PIPE SHALL BE DONE AT THE SAME TIME AS THE INSTALLATION OF THE WATERMAIN AT THIS SAME LOCATION.

THE SANITARY PIPE IS TO BE DUCTILE IRON PIPE, ANSI A-21.51, CLASS 52 (AWWA C-151).

REF NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	202 PIPE REMOVED, 24" AND UNDER FT	202 MANHOLE REMOVED EACH	611 24" CONDUIT, TYPE B, AS PER PLAN, 748.01 FT	611 MANHOLE, NO. 3 EACH	611 MANHOLE ADJUSTED TO GRADE EACH
SZ-2	P.757	109+02.81	RT				CLP_I077					1
SZ-3	P.757	111+12.50	LT				CLP_I077					1
SZ-4	P.757	111+17.49	LT				CLP_I077					1
SZ-5	P.757	111+31.57	RT				CLP_I077					1
SZ-6	P.757	111+42.99	LT				CLP_I077					1
SZ-7	P.757	111+54.13	LT				CLP_I077					1
SZ-10	P.757	111+62.04	LT				CLP_I077					1
SZ-8	P.757	111+63.08	RT				CLP_I077					1
SZ-11	P.757	111+65.58	LT				CLP_I077					1
SZ-9	P.757	111+65.67	RT				CLP_I077					1
SZ-13	P.757	111+81.63	LT				CLP_I077					1
SZ-14	P.757	111+89.60	RT				CLP_I077					1
SZ-15	P.758	112+97.42	LT				CLP_I077					1
SZ-16	P.758	113+28.21	LT				CLP_I077					1
SZ-17	P.758	113+39.12	RT				CLP_I077					1
SZ-18	P.758	113+39.57	RT				CLP_I077					1
SZ-19	P.759	119+71.88	LT				CLP_I077					1
SZ-20	P.760	126+48.25	LT				CLP_I077					1
SZ-21	P.761	131+45.98	RT				CLP_I077					1
SZ-22	P.762	132+44.57	RT				CLP_I077					1
SZ-23	P.762	132+46.89	RT				CLP_I077					1
SZ-24	P.762	135+15.63	LT				CLP_I077					1
SZ-25	P.765	148+39.66	LT				CLP_I077					1
SZ-26	P.767	157+39.35	RT				CLP_I077					1
SZ-27	P.769	170+80.15	RT				CLP_I077					1
SZ-27A	P.771	179+60.51	LT				CLP_I077					1
S8	P.771	179+60.51	LT	TO	180+27.52	LT	CLP_I077	74				
SZ-28	P.772	184+86.33	LT				CLP_I077					1
SZ-29	P.772	185+66.50	LT				CLP_I077					1
SZ-30	P.773	190+77.11	RT				CLP_I077					1
SZ-33	P.774	193+21.39	LT				CLP_I077					1
SZ-34	P.779	218+73.97	LT				CLP_I077					1
S3	P.1010	74+94.54	RT	TO	74+94.69	LT	CLP_I077			169	1	
S4	P.1010	74+94.54	RT	TO	75+26.29	RT	CLP_I077			33	1	
S2	P.1010	74+94.69	LT	TO	75+29.02	LT	CLP_I077			35	1	
S5	P.1010	75+10.64	RT	TO	75+26.29	RT	CLP_I077	47				
S6	P.1010	75+10.64	RT	TO	75+39.99	LT	CLP_I077	101	1			
S1	P.1010	75+29.02	LT	TO	75+44.11	LT	CLP_I077			42	1	
S7	P.1010	75+39.99	LT	TO	76+40.87	LT	CLP_I077	161	1			
TOTALS CARRIED TO GENERAL SUMMARY								383	2	279	4	31

Preliminary Plans - For Reference Only

SANITARY NOTES AND SUB-SUMMARY

DESIGN AGENCY
AECOM

DESIGNER MAW
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.1009 TOTAL P.1269

CUY-77-11.41 - PART 1

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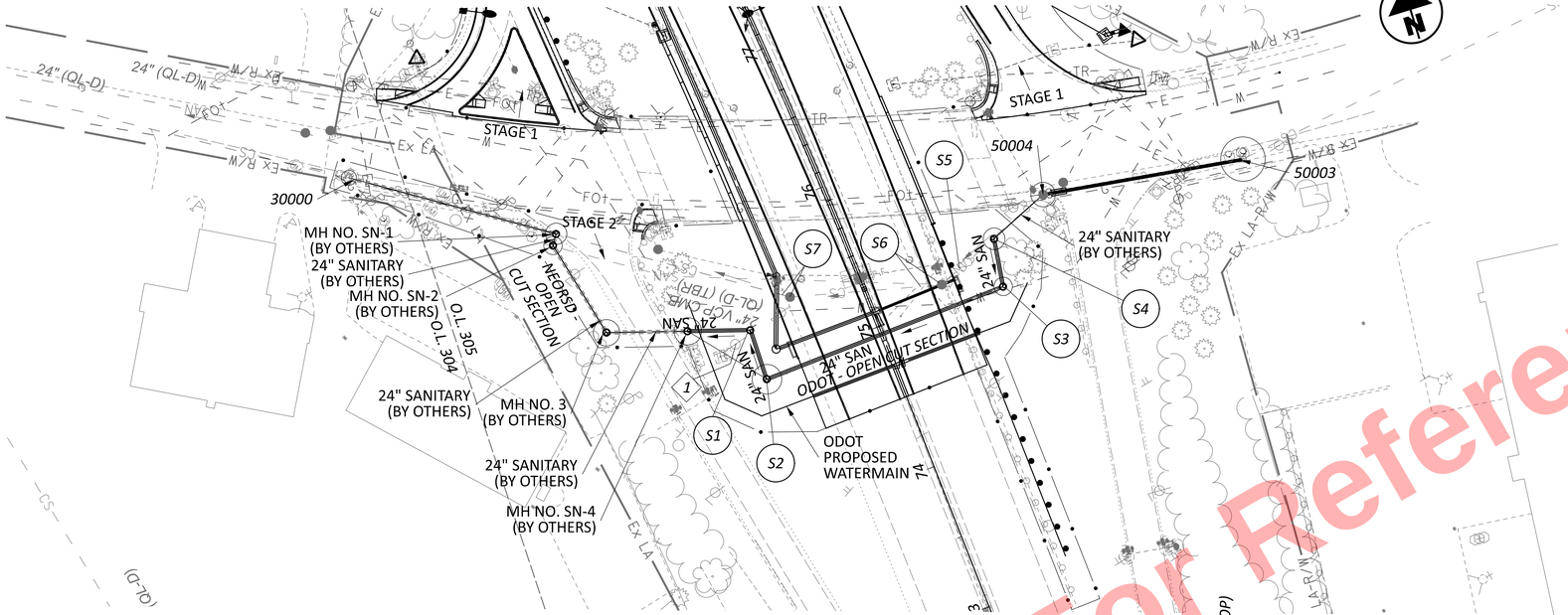
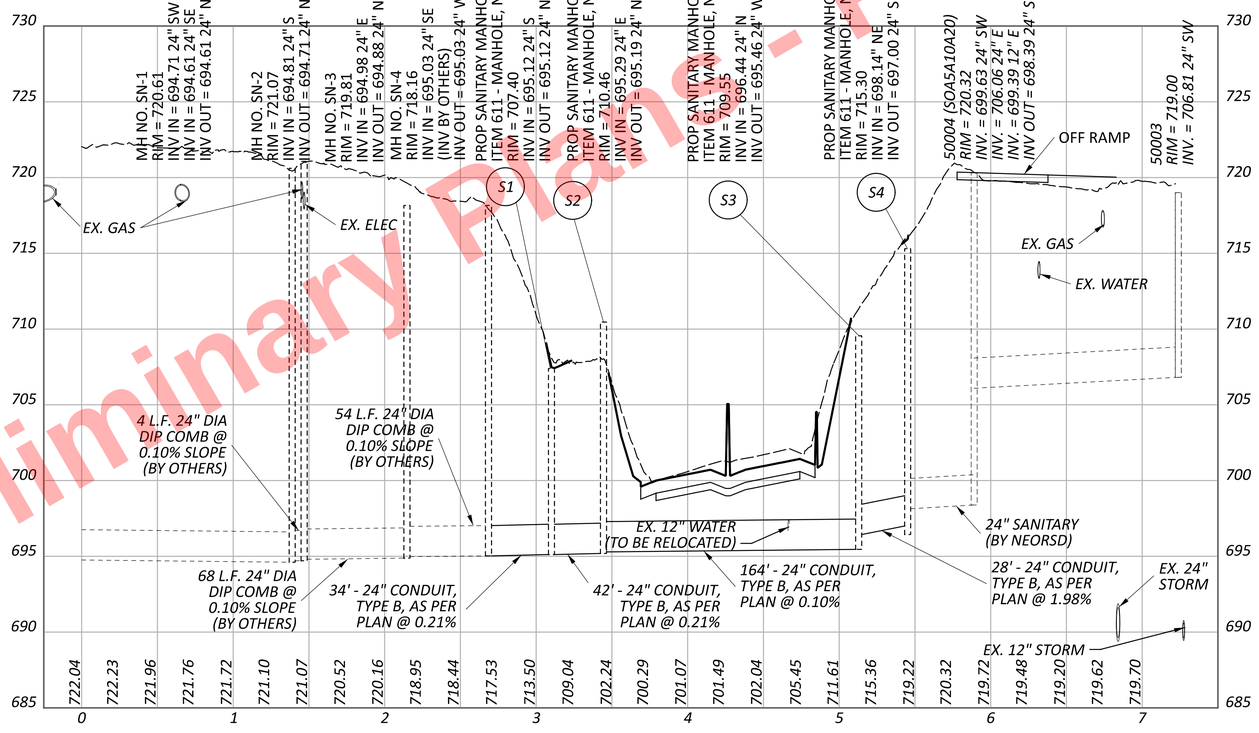
Preliminary Plans - For Reference Only





NOTES:
WORK DESIGNATED "BY OTHERS" IS PROVIDED FOR REFERENCE ONLY AND IS WORK ASSOCIATED WITH THE NEORSD SOUTHERLY REGULATORS AND RELIEF SEWERS (SRRS) PROJECT, PROJECT NO. 1668

1 CONTRACTOR TO USE EXTREME CAUTION WHEN WORKING NEAR CCTV POLE. CCTV POLE NOT TO BE DISTURBED.

HORIZONTAL SCALE IN FEET
0 25 50 100

SANITARY SEWER REHABILITATION PLAN AND PROFILE

DESIGN AGENCY
AECOM

DESIGNER
MAW

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.1010 TOTAL P.1269

CUY-77-11.41 - PART 1

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WATERWORK

ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT, WATER MAIN

THIS ITEM SHALL ALSO FOLLOW THE CITY OF CLEVELAND WATER DEPARTMENT STANDARDS.

THIS ITEM SHALL CONSIST OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING CONDUIT AND FILLING THE AREA THUS SEALED OFF WITH ITEM 613, SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER.

LOCATE THE BULKHEADS AT THE LIMITS OF THE AREA TO BE FILLED, AS INDICATED ON THE PLANS. THE BULKHEADS CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

PUMP THE FILL MATERIAL INTO PLACE OR BY OTHER MEANS APPROVED BY THE ENGINEER, SO THAT AFTER SETTLEMENT, AT LEAST 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH IS FILLED. THE LENGTH OF FILLED AND PLUGGED CONDUIT TO BE PAID FOR IS THE ACTUAL NUMBER OF FEET (MEASURED ALONG THE CENTERLINE OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS) FILLED AND PLUGGED AS DESCRIBED ABOVE.

IN LIEU OF FILLING AND PLUGGING THE EXISTING CONDUIT, THE PIPE MAY BE CRUSHED AND BACKFILLED IN ACCORDANCE WITH THE PROVISIONS OF 203, OR IT MAY BE REMOVED. THE LENGTH, MEASURED AS PROVIDED ABOVE, SHALL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR, ITEM SPECIAL, FILL AND PLUG EXISTING CONDUIT.

ITEM 638 - 12" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, BOLTLESS-RESTRAINED JOINTS AND FITTINGS, AS PER PLAN

ALL WORK SHALL COMPLY WITH CMS ITEM 638 EXCEPT AS MODIFIED HERE:

ALL PIPE FURNISHED OR USED UNDER THIS ITEM SHALL BE CLASS 52 DUCTILE IRON PIPE (CEMENT LINED) AND BE TESTED FOR LEAKAGE AND BACTERIA AS REQUIRED BY THE SPECIFICATIONS AND THE EPA.

RESTRAINED MECHANICAL JOINTS AND FITTINGS SHALL BE USED AT ALL LOCATIONS OF TEES, HYDRANTS, VALVES, AND BENDS AND SHALL BE COMPLIANT WITH CLEVELAND WATER DEPARTMENT STANDARDS FOR RESTRAINED MECHANICAL JOINTS AND FITTINGS.

BOLTLESS-RESTRAINED JOINTS AND FITTINGS SHALL BE USED WHEN ABRUPT CHANGE IN THE GRADE IS NECESSARY TO AVOID EXISTING UTILITIES OR OTHER OBSTRUCTIONS. SUITABLE FITTINGS SHALL BE USED UNLESS OTHERWISE SPECIFIED, TO SECURE AN EASY FLOW OF LIQUID AND TO PROVIDE SUFFICIENT COVER UNDER OBSTRUCTIONS. PIPES AND FITTINGS SHALL BE COMPLIANT WITH THE CITY OF CLEVELAND WATER DEPARTMENT STANDARDS.

LOWERINGS SHALL BE SO LOCATED TO MAINTAIN A MINIMUM CLEARANCE OF 18 INCHES IN ALL DIRECTIONS WITH RESPECT TO OTHER UTILITIES, MEASURE FROM OUTSIDE TO OUTSIDE PIPE WALLS.

THIS ITEM SHALL INCLUDE ALL NECESSARY EXPLORATION, EXCAVATION, EMBANKMENTS, UTILITY COORDINATION/PROTECTION/REPLACEMENT, DEWATERING, SHEETING, PREPARATION OF TRENCH BOTTOM, ROCK EXCAVATION, JOINT RESTRAINT, DISINFECTION, BEDDING, BACKFILL OF THE TYPE REQUIRED BY THE PLANS AND SPECIFICATIONS, TESTING, ALL FLUSHING WATER, DISINFECTION, TESTING, CHLORINATION PITS, CLEANING UP AND ALL OTHER EXPENSES WHETHER SPECIFICALLY MENTIONED OR NOT TO COMPLY WITH THE STANDARD DETAILS OF C.W.D. AND TO PROVIDE A USABLE WATER MAIN.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR FOOT OF PIPE INSTALLED AS MEASURED THROUGH FITTINGS AND VALVES FROM CENTER TO CENTER OF FITTINGS AND VALVES ALONG THE CENTERLINE OF THE WATER MAIN, COMPLETE, TESTED, DISINFECTED, AND READY FOR SERVICE.

ITEM 638 - 12" GATE VALVE AND VALVE BOX, AS PER PLAN
ITEM 638 - 12" CUTTING-IN SLEEVE, VALVE AND VALVE BOX, AS PER PLAN

ALL WORK SHALL COMPLY WITH CMS ITEM 638 EXCEPT AS MODIFIED HERE:

THESE ITEMS SHALL ALSO FOLLOW THE CITY OF CLEVELAND WATER DEPARTMENT STANDARDS.

THIS ITEM SHALL INCLUDE ALL NECESSARY EXCAVATION; EMBANKMENT; DEWATERING; SHEETING; PREPARATION OF TRENCH BOTTOM; ROCK EXCAVATION; VALVE; VALVE BOX; JOINT MATERIAL; BLOCKING; ANODE CAPS; ADJUSTMENT; BEDDING; BACKFILL; TESTING; DISPOSAL OF WASTE AND ALL OTHER EXPENSES WHETHER SPECIFICALLY MENTIONED OR NOT, FOR THE INSTALLATION OF 12" GATE VALVES AND VALVE BOXES AND 12" CUT-IN-VALVES AND VALVE BOXES.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR EACH GATE VALVE ASSEMBLY INSTALLED COMPLETE, TESTED, DISINFECTED, AND READY FOR SERVICE.

ITEM 638 - 36" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, BOLTLESS-RESTRAINED JOINTS AND FITTINGS, AS PER PLAN

ALL WORK SHALL COMPLY WITH CMS ITEM 638 EXCEPT AS MODIFIED HERE:

ALL PIPE FURNISHED OR USED UNDER THIS ITEM SHALL BE CLASS 52 DUCTILE IRON PIPE (CEMENT LINED) AND BE TESTED FOR LEAKAGE AND BACTERIA AS REQUIRED BY THE SPECIFICATIONS AND THE EPA.

RESTRAINED MECHANICAL JOINTS AND FITTINGS SHALL BE USED AT ALL LOCATIONS OF TEES, HYDRANTS, VALVES, AND BENDS AND SHALL BE COMPLIANT WITH CLEVELAND WATER DEPARTMENT STANDARDS FOR RESTRAINED MECHANICAL JOINTS AND FITTINGS.

BOLTLESS-RESTRAINED JOINTS AND FITTINGS SHALL BE USED WHEN ABRUPT CHANGE IN THE GRADE IS NECESSARY TO AVOID EXISTING UTILITIES OR OTHER OBSTRUCTIONS. SUITABLE FITTINGS SHALL BE USED UNLESS OTHERWISE SPECIFIED, TO SECURE AN EASY FLOW OF LIQUID AND TO PROVIDE SUFFICIENT COVER UNDER OBSTRUCTIONS. PIPES AND FITTINGS SHALL BE COMPLIANT WITH THE CITY OF CLEVELAND WATER DEPARTMENT STANDARDS.

LOWERINGS SHALL BE SO LOCATED TO MAINTAIN A MINIMUM CLEARANCE OF 18 INCHES IN ALL DIRECTIONS WITH RESPECT TO OTHER UTILITIES, MEASURE FROM OUTSIDE TO OUTSIDE PIPE WALLS.

THIS ITEM SHALL INCLUDE ALL NECESSARY EXPLORATION, EXCAVATION, EMBANKMENTS, UTILITY COORDINATION/PROTECTION/REPLACEMENT, DEWATERING, SHEETING, PREPARATION OF TRENCH BOTTOM, ROCK EXCAVATION, JOINT RESTRAINT, DISINFECTION, BEDDING, BACKFILL OF THE TYPE REQUIRED BY THE PLANS AND SPECIFICATIONS, TESTING, ALL FLUSHING WATER, DISINFECTION, TESTING, CHLORINATION PITS, CLEANING UP AND ALL OTHER EXPENSES WHETHER SPECIFICALLY MENTIONED OR NOT TO COMPLY WITH THE STANDARD DETAILS OF C.W.D. AND TO PROVIDE A USABLE WATER MAIN.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR FOOT OF PIPE INSTALLED AS MEASURED THROUGH FITTINGS AND VALVES FROM CENTER TO CENTER OF FITTINGS AND VALVES ALONG THE CENTERLINE OF THE WATER MAIN, COMPLETE, TESTED, DISINFECTED, AND READY FOR SERVICE.

ITEM 638 - 36" CUTTING-IN SLEEVE, VALVE AND VALVE BOX, AS PER PLAN

ALL WORK SHALL COMPLY WITH CMS ITEM 638 EXCEPT AS MODIFIED HERE:

THESE ITEMS SHALL ALSO FOLLOW THE CITY OF CLEVELAND WATER DEPARTMENT STANDARDS.

THIS ITEM SHALL INCLUDE ALL NECESSARY EXCAVATION; EMBANKMENT; DEWATERING; SHEETING; PREPARATION OF TRENCH BOTTOM; ROCK EXCAVATION; VALVE; VALVE BOX; JOINT MATERIAL; BLOCKING; ANODE CAPS; ADJUSTMENT; BEDDING; BACKFILL; TESTING; DISPOSAL OF WASTE AND ALL OTHER EXPENSES WHETHER SPECIFICALLY MENTIONED OR NOT, FOR THE INSTALLATION OF 36" GATE VALVES AND VALVE BOXES AND 36" CUT-IN-VALVES AND VALVE BOXES.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR EACH GATE VALVE ASSEMBLY INSTALLED COMPLETE, TESTED, DISINFECTED, AND READY FOR SERVICE.

ITEM SPECIAL - 20" STEEL PIPE ENCASEMENT, BORED OR JACKED, CWD

20" STEEL PIPE ENCASEMENT DESIGNATED FOR INSTALLATION SHALL BE IN ACCORDANCE WITH THE CITY OF CLEVELAND WATER DEPARTMENT STANDARDS. PAYMENT FOR THIS WORK SHALL BE MADE AT THE UNIT PRICE BID PER FOOT, WHICH CONSTITUTES FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS TO COMPLETE THE WORK AT THE LOCATIONS SHOWN IN THE DRAWINGS.

ITEM SPECIAL - 56" STEEL PIPE ENCASEMENT, BORED OR JACKED, CWD

56" STEEL PIPE ENCASEMENT DESIGNATED FOR INSTALLATION SHALL BE IN ACCORDANCE WITH THE CITY OF CLEVELAND WATER DEPARTMENT STANDARDS. PAYMENT FOR THIS WORK SHALL BE MADE AT THE UNIT PRICE BID PER FOOT, WHICH CONSTITUTES FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS TO COMPLETE THE WORK AT THE LOCATIONS SHOWN IN THE DRAWINGS.

ITEM 638 - WATER WORK, MISC.: POTHOLING

POTHOLING SHALL BE UTILIZED AS DIRECTED BY THE ENGINEER PRIOR TO COMMENCEMENT OF ANY INSTALLATION OF THE PROPOSED WATER MAINS. THE INTENT OF THIS ITEM OF WORK IS TO LOCATE EXISTING UTILITIES AS WELL AS PREVENT EXCAVATION DAMAGE TO UNDERGROUND UTILITIES THAT ARE TO REMAIN.

THE RANGE IN DEPTH FOR POTHOLING SHALL BE FROM 8 FEET TO A MAXIMUM DEPTH OF 12 FEET.

ALLOWABLE POTHOLING METHODS INCLUDE VACUUM EXCAVATION AND HAND DIGGING. THE USE OF A BACKHOE IS NOT THE PREFERRED METHOD FOR THE PROPOSED POTHOLING. HOWEVER, IF A BACKHOE IS UTILIZED, IT IS ESSENTIAL THAT A SPOTTER BE PRESENT FOR THE ENTIRE EXCAVATION. THE CONTRACTOR SHALL ANTICIPATE THE NECESSITY OF HAND DIGGING.

THE CONTRACTOR IS REQUIRED TO COORDINATE WITH OUPS PRIOR TO ANY EXCAVATION ACTIVITY. FACILITY OWNERS THAT DO NOT PARTICIPATE WITH OUPS SHALL ALSO BE CONTACTED BY THE CONTRACTOR.

ONCE EXISTING UTILITIES ARE EXPOSED, RECORD THE HORIZONTAL AND VERTICAL POSITIONS AS WELL AS THE DEPTH BELOW THE SURFACE OF THE SURROUNDING PAVEMENT. THESE DIMENSIONS MUST BE INCLUDED IN THE AS-BUILT DRAWING PACKAGE REQUIRED FOR THE WATER WORK HEREIN. MEASUREMENTS SHALL BE TIED INTO A SURVEY BENCHMARK, AND SURVEY COORDINATES PROVIDED.

ONCE THE UTILITY HAS BEEN LOCATED, A POWERED SAW MAY BE USED TO CUT THROUGH EXISTING PAVEMENT. HEAVY EQUIPMENT MAY BE USED TO DIG WITHIN 3 FEET OF THE UTILITY'S LOCATION, OR AS REQUIRED PER THE RESPECTIVE UTILITY'S TOLERANCE ZONE. HEAVY EQUIPMENT MAY ALSO BE USED TO DIG UP TO CONCRETE ENCASEMENT OF A DUCT BANK ONCE EDGES ARE ESTABLISHED BY POTHOLING.

UTILITIES EXPOSED BY POTHOLING MUST BE PROTECTED THROUGHOUT THE PROJECT DURATION; AS NECESSARY, PLACE TEMPORARY SUPPORT OR SHORING TO SUPPORT SO THAT EXPOSED UTILITIES DO NOT SHIFT OR SAG WHEN THE SOIL THAT WAS SUPPORTING AND PROTECTING THEM IS REMOVED; AND/OR PLACE A BARRIER THAT PROTECTS EXPOSED UTILITIES FROM HEAVY AND SHARP ITEMS THAT COULD FALL INTO THE EXCAVATION.

ONCE THE UNDERGROUND UTILITY IS LOCATED, THE POTHOLE SHOULD BE MANAGED IN THE SAME MANNER AS ANY OTHER OPEN EXCAVATION TO PREVENT WORKER FALLS AND DAMAGE TO ANY EXPOSED UTILITIES: PLACE BARRICADES, TRAFFIC PLATES, OR OTHER MEASURES UNTIL BACKFILL AND RESTORATION IS CARRIED OUT. BACKFILLING AND THE RESTORATION OF PAVEMENT OR SURFACING MUST BE IN ACCORDANCE WITH THE DETAILS PROVIDED HEREIN. BACKFILL WILL BE INCLUDED FOR PAYMENT UNDER THIS ITEM OF WORK. PAVEMENT RESTORATION WILL BE PAID FOR UNDER THE RESPECTIVE CMS ITEMS OF WORK PROVIDED HEREIN.

AFTER THE UNDERGROUND UTILITY HAS BEEN LOCATED, THE POTHOLE SHOULD BE RESTORED WITHIN 24 HOURS OR AS OTHERWISE DIRECTED. APPROPRIATE SEDIMENT CONTROLS SHOULD BE UTILIZED DURING ALL POTHOLING ACTIVITIES TO PREVENT STORM WATER POLLUTION. THE POTHOLE SHOULD BE CLEAN AND DRY PRIOR TO BACKFILLING.

DRILLING MUD OR REMAINING SPOIL SHOULD BE CLEANED UP AND THE AREA RESTORED TO ORIGINAL CONDITION OR BETTER. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF ANY DRILLING MUD OR REMAINING SPOIL IN AN ENVIRONMENTALLY SUITABLE MANNER.

PAYMENT FOR THE WORK DESCRIBED HEREIN SHALL BE MADE AT THE BID UNIT PRICE PER EACH FOR "ITEM 638 - WATER WORK, MISC.: POTHOLING" WHICH PRICE SHALL CONSTITUTE FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK, INCLUDING PROFESSIONAL SURVEY LOCATION SERVICES, DISPOSAL OF ANY SPOILS, EXCAVATION, PREMIUM BACKFILL AND TRAFFIC CONTROL. PAVEMENT RESTORATION WILL BE PAID FOR UNDER RESPECTIVE BID ITEMS HEREIN.

ITEM 638 - WATER WORK, MISC.: CHLORINATION PIT

ALL APPLICABLE PROVISIONS OF ITEM 638 SHALL APPLY EXCEPT AS MODIFIED HEREIN:

CHLORINATION PIT SHALL FOLLOW THE CITY OF CLEVELAND WATER DEPARTMENT STANDARDS FOR INSTALLING AND DISINFECTING WATER MAIN PIPES.

PAYMENT SHALL BE MADE PER EACH CHLORINATION PIT WHICH INCLUDES ALL MATERIAL, EQUIPMENT, AND INCIDENTALS NECESSARY FOR THE WORK ITEMS.

CLEVELAND WATER DEPARTMENT FEES AND CHARGES
ITEM 638 - WATER WORK, MISC.: CITY OF CLEVELAND AND WATER DEPARTMENT CHARGES

1. PERMITS, INSPECTIONS AND FEES REQUIRED BY THE CITY OF CLEVELAND WATER DEPARTMENT (CWD) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AND MEET COMPLIANCE INCLUDING WATER MAIN LOWERING FEES AND INSPECTION FEES. THE COST OF THESE FEES WILL BE APPROXIMATELY $15,000. THE CONTRACTOR SHALL VERIFY ALL COSTS. ALL INVOICES FROM THE CLEVELAND WATER DEPARTMENT SHALL BE SUBMITTED TO THE OHIO DEPARTMENT OF TRANSPORTATION WITHOUT ANY MARK-UP. THIS WILL BE A DIRECT REIMBURSEMENT ONLY AND ANY BALANCE DUE OR BALANCE REMAINING SHALL BE ADJUSTED BY CHANGE ORDER.

2. ALL TESTING AND CHLORINATION REQUIRED BY ODOT CMS AND CWD FOR THE APPLICABLE ITEMS UNDER THIS CONTRACT SHALL BE ENFORCED, AND ALL COSTS SHALL BE INCLUDED IN THE PRICE BID FOR THE ITEM TO WHICH IT RELATES.

3. A TWO-YEAR WARRANTY, COMMENCING FROM THE DATE OF ACCEPTANCE OF THE FINAL CHLORINATOIN OF THE WATER MAIN INSTALLATION SHALL BE PROVIDED BY THE CONTRACTOR FOR ALL WATER MAINS AND SERVICE CONNECTION WORK PERFORMED, INCLUDING TAPS IF PERFORMED. SHOULD ANY LEAKS OCCUR AND REPAIRS BE REQUIRED DUE TO DEFECTIVE MATERIAL OR POOR WORKMANSHIP. A LETTER INDICATING THE COMMENCEMENT DATE AND END DATE OF THE WARRANTY SHALL BE INCLUDED WITH THE AS-BUILT SUBMISSION.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 638 - WATER WORK, MISC.: CITY OF CLEVELAND WATER DEPARTMENT CHARGES LS

ITEM 638 - WATER WORK, MISC.: AS-BUILT DRAWINGS

THIS ITEM SHALL INCLUDE ALL COSTS ASSOCIATED WITH THE GENERATION, DELIVERY AND ACCEPTANCE OF AS-BUILT DRAWINGS FOR THE WATER WORK COMPLETED WITH THIS PROJECT. PRIOR TO PRESSURE TESTING AND CHLORINATION OF THE MAIN, THE CONTRACTOR SHALL SUBMIT TWO (2) COPIES OF THE RECORD (AS-BUILT) PRINTS TO THE CITY OF CLEVELAND DIVISION OF WATER FOR ACCEPTANCE. THESE DRAWINGS SHALL INCLUDE THE EXACT LOCATION OF ALL NEW VALVES, METERS, REGULATORS AND HYDRANTS INSTALLED. THE DATE OF VALVE, METER, REGULATOR AND HYDRANT INSTALLATION SHALL BE INDICATED ON THE DRAWINGS. THE DRAWINGS SHALL SHOW THE EXACT LIMITS OF THE PIPE THAT WAS INSTALLED. ALL EXCAVATIONS SHALL BE RECORDED WITH LOCATION AND DIMENSIONS, DATE OPENED, DATE BACKFILLED, AND DATE PAVED SHALL BE SHOWN ON THE AS-BUILTS. A CURRENTLY REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF OHIO SHALL SEAL THE DRAWINGS. AS-BUILTS WILL BE REQUIRED PRIOR TO DISINFECTING THE WATER MAIN.

ALL WORK REQUIRED SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR "AS-BUILT DRAWINGS".

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 638 - WATER WORK, MISC.: AS-BUILT DRAWINGS LS

Preliminary Plans - For Reference Only

WATER WORK NOTES

DESIGN AGENCY
AECOM

DESIGNER MAW
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.1011 TOTAL P.1269

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CLEVELAND WATER NOTES FOR WATER MAIN INSTALLATION AND/OR REPLACEMENT

DEVELOPERS, ENGINEERS, AND CONTRACTORS ARE TO ABIDE BY THE MOST CURRENT VERSION OF THE CLEVELAND WATER NOTES AND DETAILS. THE MOST UP-TO-DATE VERSION CAN BE FOUND AT WWW.CLEVELANDWATER.COM/CONSTRUCTION/

GENERAL:

1. ALL WATER WORK REQUIRED, WHETHER SHOWN ON THE PLANS OR AS DIRECTED BY CLEVELAND WATER, SHALL BE AT THE EXPENSE OF THE PROJECT UNLESS OTHERWISE AGREED TO BY THE COMMISIONER OF THE CLEVELAND DIVISION OF WATER.

2. THE INFORMATION SHOWN ON THE CLEVELAND DIVISION OF WATER'S SUMMARY OF WORK/CHARGE LETTER, STRIP MAPS, AS BUILT DRAWINGS, AND GIS ARE TAKEN FROM EXISTING AVAILABLE RECORDS, AND THEIR ACCURACY IS NOT GUARANTEED.

3. CALL THE INSPECTION AND ENFORCEMENT UNIT AT 216-664-2342 TO SCHEDULE A PRECONSTRUCTION MEETING AT LEAST 1 WEEK PRIOR TO STARTING CONSTRUCTION. THE OPERATION OF ANY VALVE OR ALTERATION OF ANY PART OF THE WATER SYSTEM BY CONTRACTORS OR THEIR EMPLOYEES IS PROHIBITED WITHOUT THE SUPERVISION OF THE CLEVELAND DIVISION OF WATER INSPECTOR. SEE ALSO NOTE 20 REGARDING ADDITIONAL ADVANCE NOTIFICATION REQUIRED IN AREAS SUSPECTED TO CONTAIN LEAD SERVICE CONNECTION (ALL AREAS INSTALLED PRIOR TO 1954).

4. PRIOR TO REQUESTING CHLORINATION, THE CONTRACTOR SHALL SUPPLY THE CLEVELAND WATER INSPECTOR WITH REDLINE DRAWINGS SHOWING CHANGES MADE FROM THE APPROVED DESIGN DRAWINGS AND ACTUAL MEASUREMENTS. CHLORINATION SHALL NOT OCCUR BEFORE THESE DRAWINGS ARE SUBMITTED.

5. FOR THE PURPOSES OF CHLORINATION AND BACTERIOLOGICAL TESTING OF THE WATER MAINS THE CONTRACTOR SHALL PROVIDE AND INSTALL, AT EACH OF THE CHLORINATION PIT LOCATIONS SHOWN AND AT OTHER LOCATIONS DETERMINED BY CLEVELAND WATER. FLUSHING / SAMPLING TAP SIZES ARE TO BE DETERMINED CLEVLEAND WATER. CHLORINATION PITS SHALL BE SIX (6) FOOT SQUARE AND ARE TO MEET OSHA STANDARDS. NO CUSTOMER TAPS SHALL BE INSTALLED PRIOR TO CHLORINATION.

6. A TWO YEAR WARRANTY, COMMENCING FROM THE DATE OF ACCEPTANCE OF THE FINAL CHLORINATION OF THE WATER MAIN INSTALLATION SHALL BE PROVIDED BY THE BUILDER/DEVELOPER AND/OR CONTRACTOR FOR ALL WATER MAINS AND SERVICE CONNECTION WORK PERFORMED BY THE CONTRACTOR, INCLUDING TAPS IF PERFORMED. SHOULD ANY LEAKS OCCUR AND REPAIRS BE REQUIRED DUE TO DEFECTIVE MATERIAL OR POOR WORKMANSHIP. A LETTER INDICATING THE COMMENCEMENT DATE AND END DATE OF THE WARRANTY SHALL BE INCLUDE WITH THE AS-BUILT SUBMISSION IN NOTE 12.

7. USE BACKFILL MATERIAL AS SPECIFIED AND COMPACT SUFFICIENTLY IN THOSE AREAS WHERE EXISTING MAINS AND WATER SERVICE CONNECTIONS ARE EXPOSED. (SEE CLEVELAND WATER STANDARD DETAIL STD-001)

8. ALL MATERIALS, INCLUDING BUT NOT LIMITED TO WATER MAINS, FIRE HYDRANTS, VALVES, CONNECTION MATERIALS AND OTHER WATER APPURTENANCES, SHALL BE NEW AND UNUSED AND SHALL CONFORM TO THE MOST CURRENT CLEVELAND WATER SPECIFICATIONS. ALL MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH CLEVELAND WATER'S STANDARDS.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING WATER MAINS AND APPURTENANCES THEREOF WHEN CONSTRUCTING OR CONNECTING THE NEW WATER MAIN. THIS SHALL INCLUDE LEADED JOINTS IN EXISTING FITTINGS WHICH MAY REQUIRE REPLACEMENT FITTINGS AT THE DISCRESION OF THE INSPECTOR IF IT IS DETERMINED THEY WERE DISTURBED. ALL REPAIRS TO DAMAGED EXISTING FACILITIES SHALL BE MADE BY THE CONTRACTOR, AT THE PROJECT' EXPENSE, TO THE SATISFACTION OF CLEVELAND WATER.

10. ALL HYDROSTATIC PRESSURE TESTING SHALL BE DONE BY THE CONTRACTOR IN THE PRESENCE OF THE CLEVELAND WATER INSPECTOR. THE HYDROSTATIC TEST PRESSURE SHALL BE 75 PSI ABOVE THE STATIC PRESSURE PREVAILING AT THE SITE, BUT IN NO CASE LESS THAN 150 PSI. THE PRESSURE TEST SHALL BE FOR A DURATION OF TWO (2) HOURS WITH THE PRESSURE BEING MAINTAINED WITHIN 5 PSI OF THE REQUIRED TEST PRESSURE. SHOULD THE PRESSURE TEST FAIL THE CONTRACTOR SHALL FIND AND CORRECT THE DEFICIENCY(IES) TO THE SATISFACTION OF CLEVELAND WATER AND REPEAT THE TWO (2) HOUR PRESSURE TEST.

11. ALL BURIED WATER MAINS, FITTINGS, VALVES, FIRE HYDRANT BRANCH PIPING AND APPURTENANCES SHALL BE ENCASED WITH V-BIO® ENHANCED POLYETHYLENE ENCASEMENT INSTALLED IN ACCORDANCE WITH THE MOST CURRENT REVISION OF ANSI/AWWA C-105/A21.5 MODIFIED METHOD "A".

12. THE PROJECT'S PROFESSIONAL ENGINEER OR A DESIGNATED PROFESSIONAL SURVEYOR SHALL OBTAIN ACTUAL FIELD MEASUREMENTS OF THE MAIN DURING INSTALLATION AND SHALL FURNISH THE CLEVELAND WATER INSPECTOR WITH AS-BUILT DRAWINGS MEETING CLEVELAND WATER STANDARDS WITHIN 30 DAYS OF THE WATER MAIN GOING INTO SERVICE AND ALL TAPS/RETAPS BEING MADE. ONE HARD COPY AND ONE PDF COPY SHALL BE PROVIDED. DRAWINGS SHALL BE SIGNED, DATED, AND STAMPED WITH THE ENGINEER OR SURVEYOR'S SEAL. REDLINE DRAWINGS ARE NOT SUFFICIENT. CLEVELAND WATER RESERVES THE RIGHT TO WITHHOLD PAYMENT AND/OR APPROVAL OF FUTURE WORK IF AS-BUILTS ARE NOT SUBMITTED.

WATER MAINS:

13. ALL PIPE, UNLESS OTHERWISE APPROVED BY CLEVELAND WATER, SHALL BE DUCTILE IRON, MINIMUM CLASS 52, CEMENT LINED HAVING PUSH-ON JOINTS WITH RADIALLY COMPRESSED RUBBER RING GASKET AND INSTALLED AS PER THE MOST CURRENT REVISION OF AWWA C600.

14. ALL FITTINGS, UNLESS OTHERWISE CALLED FOR, SHALL BE APPROVED DUCTILE IRON, CLASS 350, CEMENT LINED OR FUSION BONDED EPOXY COATED. ALL FITTINGS AND PIPE CONNECTED TO

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REVIEWER AKM 05/01/26
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CLEVELAND WATER NOTES FOR WATER MAIN INSTALLATION AND/OR REPLACEMENT

FITTINGS SHALL BE RESTRAINED USING A "RETAINED" MECHANICAL JOINT CONFORMING TO THE MATERIAL AND PERFORMANCE REQUIREMENTS OF ANSI/AWWA C-110/A21.10 AND ANSI/AWWA C-111/A21.11, OR "COMPACT" FITTINGS IN ACCORDANCE WITH ANSI/AWWA C-153/A21.53. EXCEPT FOR ANCHOR TEES, REDUCERS OR OTHER SPECIAL CIRCUMSTANCES WHEN BY CLEVELAND WATER, ALL FITTINGS ARE TO HAVE BELL ENDS.

15. ALL BOLTS AND NUTS ON ALL "RETAINED" MECHANICAL JOINTS SHALL HAVE FIELD APPLIED ONE (1) COAT OF BITUMASTIC PAINTING.

16. WHERE SHOWN ON THE PLANS, OR WHEN OTHERWISE CALLED FOR, PIPE AND FITTINGS SHALL HAVE AN APPROVED "TYPE I" OR "TYPE II" BOLTLESS RESTRAINED PUSH-ON JOINTS TO THE LIMITS SHOWN ON THE DRAWINGS.

17. AT THE END OF EACH WORKDAY, THE CONTRACTOR SHALL PLUG ALL OPEN PIPE ENDS WITH WATER TIGHT PLUGS AS PER THE "PREVENTITIVE AND CORRECTIVE MEASURES DURING CONSTRUCTION" SECTION OF THE MOST CURRENT REVISION OF AWWA C-651 AS TO PREVENT THE INFILTRATION OR INTRUSION OF ANY FOREIGN OBJECTS OR MATERIALS. DATE STAMPED DIGITAL PHOTOS SHALL BE PROVIDED FOR EACH WORKDAY DEMONSTRATING THAT PROPER AWWA C-651 METHODS WERE USED TO PLUG ALL OPEN WATER MAIN ENDS. EACH PHOTO SHALL CLEARLY IDENTIFY THE STATION AT WHICH THE PIPE IS PLUGGED. THE STATIONING SHALL BE SHOWN BY THE USE OF A STATION MARKER PLACED AT THE PLUGGED PIPE END.

PHOTOS SHALL BE SUBMITTED ON A DAILY BASIS UNLESS OTHERWISE DEFINED BY THE CLEVELAND WATER INSPECTOR OR ENGINEER. ALL PHOTOS TAKEN OVER THE COURSE OF THE PROJECT SHALL BE SUBMITTED BY THE CONTRACTOR AS PART OF THE AS-BUILT SUBMITTAL. PHOTOS ARE TO INCLUDE STATIONING MARKERS. AS-BUILTS SHALL BE DEEMED INCOMPLETE WITHOUT SAID COLLECTION OF DIGITAL PHOTOS.

HYDRANTS:

18. IN ALL HYDRANT INSTALLATIONS THE CONTRACTOR SHALL FACE ALL HYDRANT'S 4" (STEAMER) NOZZLE TOWARD THE PAVEMENT PRIOR TO TESTING AND CHLORINATION OF WATER MAINS. ONLY CLEVELAND WATER APPROVED HYDRANT MODELS SHALL BE INSTALLED. CONTRACTOR SHALL CONSULT WITH THE LOCAL MUNICIPALITY'S ENGINEERING OR SERVICE DEPARTMENT TO OBTAIN HYDRANT NOZZLE THREAD REQUIREMENTS IF NOT INDICATED ON THE APPROVED PLANS. ALL HYDRANTS SHALL BE FACTORY EQUIPPED WITH THE APPROPRIATE HYDRANT NOZZLE.

HYDRANT BRANCHES SHALL BE FULLY RESTRAINED AND INSTALLED PER THE APPROPRIATE HYDRANT CLEVELAND WATER HYDRANT DETAIL. HYDRANT BRANCH VALVES SHALL BE PLACED DIRECTLY AFTER THE HYDRANT TEE UNLESS OTHERWISE APPROVED BY THE INSPECTOR IN WRITING.

VALVES:

19. ALL VALVES SHALL BE AN APPROVED MODEL RESILIENT SEATED GATE VALVES AS PER THE MOST CURRENT VERSION OF AWWA C509 OR C515. VALVE OPERATING NUTS SHALL BE TAPERED (1 7/8" TO 2" FROM TOP TO BOTTOM) AND 2" DEEP. VALVES MORE THAN 10 YEARS OLD AT TIE IN POINTS TO EXISTING MAINS SHALL BE REPLACED AT THE PROJECT'S EXPENSE UNLESS OTHERWISE DIRECTED.

LEAD SERVICE CONNECTIONS:

20. LEAD SERVICES: A MINIMUM OF 45 DAYS BEFORE THE PRECONSTRUCTION MEETING, CWD SHALL PROVIDE A NOTICE TO ALL AFFECTED CUSTOMERS THAT THEIR WATER SERVICE LINE WILL BE DISTURBED. A MINIMUM OF 75 DAYS BEFORE THE PRECONSTRUCTION MEETING, THE CONTRACTOR OR ENGINEER SHALL PROVIDE CWD (AND THE LOCAL MUNICIPALITY OF OUTSIDE THE CITY OF CLEVELAND) A LIST OF ALL CUSTOMER ADDRESSES THAT WILL BE AFFECTED BY THE WATER MAIN REPLACEMENT PROJECT. FAILURE TO PROVIDE A LIST OF CUSTOMER ADDRESSES IN A TIMELY MANNER MAY RESULT IN PROJECT DELAYS.

ANY CITY-OWNED LEAD SERVICE LINE ENCOUNTERED SHALL BE REPLACED WITH TYPE K COPPER. THE REPLACEMENT SERVICE LINE SHALL BE SIZE-ON-SIZE WITH A 1-INCH MINIMUM DIAMETER. IF A CUSTOMER-OWNED LEAD SERVICE LINE IS ENCOUNTERED, THE CONTRACTOR SHALL LEAVE A CWD-SUPPLIED CUSTOMER NOTIFICATION DOOR HANGER ON ALL ACCESSIBLE POINTS OF ENTRY TO THE HOME AND IMMEDIATELY NOTIFY THE CWD INSPECTOR. IF THE CWD INSPECTOR IS NOT AVAILABLE, CALL PAYTON HALL AT (216) 664-2444, EXT. 73000 OR (216) 971-2721. CUSTOMERS WITH A CUSTOMER-OWNED LEAD SERVICE LINE SHALL NOT BE RECONNECTED TO THE NEW WATER MAIN WITHOUT EXPRESS WRITTEN APPROVAL FROM PAYTON HALL, OR HIS APPROVED REPRESENTATIVE AT CWD.

AS PART OF THIS CONTRACT, THE CONTRACTOR SHALL OFFER EACH CUSTOMER TO REPLACE LEAD SERVICES FROM THE CORPORATION STOP TO THE INLET STOP & WASTE VALVE INSIDE THE CUSTOMER'S HOME. IF THE REPLACEMENT IS NOT COVERED UNDER THE BID ITEMS, THE CONTRACTOR SHALL PROVIDE CWD (AND THE LOCAL MUNICIPALITY IF OUTSIDE THE CITY OF CLEVELAND) WITH A CHANGE ORDER AND COST ESTIMATES FOR THE CUSTOMER-OWNED LEAD SERVICE LINE REPLACEMENT. UPON APPROVAL FROM CWD (AND THE LOCAL MUNICIPALITY IF OUTSIDE THE CITY OF CLEVELAND), THE CONTRACTOR SHALL PERFORM THE REPLACEMENT OF THE CUSTOMER-OWNED LEAD SERVICE LINE. AS STATED ABOVE, CUSTOMERS WITH CUSTOMER-OWNED LEAD SERVICE LINES SHALL NOT BE RECONNECTED TO THE NEW WATER MAIN WITHOUT EXPRESS WRITTEN APPROVAL FROM PAYTON HALL, OR HIS APPROVED REPRESENTATIVE AT CWD.

IN THE EVENT THAT A CWD WAIVER IS GRANTED SUCH THAT A CUSTOMER-OWNED LEAD SERVICE LINE IS NOT REPLACED, CWD SHALL SUPPLY THE CONTRACTOR WITH LEAD FILTERS AND PITCHERS THAT THE CONTRACTOR SHALL DISTRIBUTE TO EACH RESIDENCE WITHIN THE PROJECT AREA, INCLUDING TO ALL UNITS OF MULTI-UNIT HOUSING BUILDINGS. THE FILTERS SHALL BE POUR-THROUGH PITCHER TYPE LEAD FILTERS THAT ARE NSF/ANSI-53 CERTIFIED TO REMOVE

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AECOM

DESIGNER MAW
REVIEWER AKM 05/01/26
PROJECT ID 105743
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CLEVELAND WATER NOTES FOR WATER MAIN INSTALLATION AND/OR REPLACEMENT

LEAD. THE PITCHER, A 3-MONTH SUPPLY OF FILTERS, AND CWD-SUPPLIED USE INSTRUCTIONS AND OTHER APPLICABLE MATERIALS SHALL BE DISTRIBUTED. RECORDS OF RESIDENTS WHO RECEIVED AND WHO REFUSED THE FILTERS SHALL BE PROVIDED BY THE CONTRACTOR TO CWD (AND THE LOCAL MUNICIPALITY IF OUTSIDE THE CITY OF CLEVELAND).

AT THE BEGINNING OF THE DAY THAT A CUSTOMER IS SCHEDULED TO BE CONNECTED TO THE NEW WATER MAIN, THE CONTRACTOR SHALL DISTRIBUTE THE APPROPRIATE CWD-SUPPLIED CUSTOMER NOTIFICATION DOOR HANGER AND OTHER APPLICABLE MATERIALS ON ALL ACCESSIBLE POINTS OF ENTRY TO THE HOME AND IN A PROMINENT LOCATION AT ALL MULTI-UNIT HOUSING BUILDINGS. THE APPROPRIATE DOOR NOTIFICATION WILL BE DETERMINED BY (1) WHETHER A CUSTOMER-OWNED LEAD SERVICE LINE REMAINS IN THE PROJECT AREA AND (2) THE TYPE OF MATERIAL OF THE INDIVIDUAL CUSTOMER-OWNED SERVICE LINE.

21. DIELECTRIC COUPLINGS: IN THE EVENT THAT A CWD WAIVER IS GRANTED SUCH THAT A CUSTOMER-OWNED LEAD SERVICE LINE IS NOT REPLACED, AND A NEW SERVICE IS CONNECTED TO A CUSTOMER-OWNED LEAD SERVICE LINE, A DIELECTRIC COUPLING SHALL BE PROVIDED TO TRANSITION FROM THE NEW MATERIALS TO THE LEAD PIPE. THE MODEL COUPLING USED IS SUBJECT TO APPROVAL FROM CWD. HARCO – PHILMAC UTC OR CWD-APPROVED EQUAL.

GENERAL SERVICE CONNECTIONS:

22. AS PART OF THE AS BUILT SUBMISSION IN NOTE 12, THE CONTRACTOR SHALL PROVIDE A TABLE SHOWING ALL EXISTING CONNECTIONS, IDENTIFIED BY CLEVELAND WATER CONNECTION NUMBER, SHOWING THE FOUND CONNECTION MATERIAL FOR BOTH THE CITYSIDE AND OWNERSIDE CONNECTION, AS WELL AS THE NEW CONNECTION MATERIAL FOR ALL CONNECTIONS REPLACED. THE TABLE SHALL ALSO NOTE ANY REVISED CONNECTION MEASUREMENTS AND SIZES. A SAMPLE TABLE WILL BE PROVIDED. THE SUBMISSION SHALL BE IN MICRSOFT EXCEL FORMAT. CLEVELAND WATER SHALL REQUIRE THE DELIVERY AND ACCEPTANCE OF THIS TABLE BEFORE THE PRESSURE TEST AND CHLORINATION / DISINFECTION OF THE MAIN WILL BE PERMITTED.

23. NEW WATER SERVICE CONNECTIONS LOCATIONS SHOWN ON THESE DRAWINGS ARE FOR REFERENCE ONLY AND ARE NOT PART OF THE WATER MAIN APPROVAL. THE SPECIFIC LOCATION FOR EACH CONNECTION WILL BE DETERMINED BY CLEVELAND WATER PRIOR TO THE TAPS BEING INSTALLED. ALL PERMITS FOR TAPS AND METERS FOR PARCELS ASSOCIATED WITH THE WATER MAINS INSTALLED ON THIS PROJECT ARE TO BE OBTAINED BY THE LAND OWNER OF SAID IMPROVEMENT PLANS. IT IS THE LAND OWNERS RESPONSIBILITY TO ARRANGE FOR OBTAINING PERMITS FOR ALL WATER SERVICE CONNECTIONS BEFORE ANY SERVICE CONNECTION WORK MAY PROCEED. ALL FEES CAN BE OBTAINED FROM THE CLEVELAND WATER PERMITS AND SALES SECTION AT 216-664-3130 PROMPT #7 OR 216-664-2444 X75209.

ACCOUNTS SHALL BE INITIATED IN THE LAND OWNER'S NAME AS PART OF THE PERMITTING PROCESS. ALL RESPONSIBILITIES ASSOCIATED WITH EACH WATER SERVICE, INCLUDING, THE OWNER SIDE INSPECTIONS, METER SET/METER PIPING INSPECTION AND THE METER INSTALLATION SHALL BE THE RESPONSIBILITY OF SAID OWNER.

METERS INSTALLATIONS WILL NOT BE AUTHORIZED TO BE INSTALLED UNTIL ALL INSPECTIONS HAVE BEEN COMPLETED. ESTIMATED BILLS MAY ENSUE IF A HOME IS IDENTIFIED AS HAVING WATER SERVICE BUT NO METER HAS BEEN INSTALLED. IF NEW OWNERS, ONCE PARCELS ARE SOLD OFF AND TRANSFER TITLE, DO NOT CONTACT CLEVELAND WATER TO ESTABLISH ACCOUNTS IN THEIR NAME, ACCOUNTS AND THEIR ASSOCIATED BILLS WILL REMAIN IN THE NAME OF OUR LAST OWNER OF RECORD WHICH MAY BE THE DEVELOPER OR BUILDER. IT IS THE RESPONSIBILITY OF THE NEW OWNER TO TRANSFER ACCOUNTS INTO THEIR NAME WHEN THE PROPERTIES LEGALLY TRANSFER. UPON TRANSFER OF PROPERTY, SELLER OF PROPERTY MUST COMMUNICATE ALL UNCOMPLETED PORTIONS OF THE REFERENCED RESPONSIBILITIES TO THE NEW OWNER.

24. ONE INCH SERVICE CONNECTIONS SHALL BE PERMITTED TO SERVICE NEW HOMES (AS SHOWN ON APPROVED WATER MAIN EXTENSION PLANS) BASED ON THE FOLLOWING CRITERIA:

- PEAK FLOW DEMANDS DO NOT EXCEED 25 GPM FOR AN INDIVIDUAL HOME/UNIT. INCLUSIVE OF ALL USAGE (DOMESTIC AND/OR IRRIGATION),
- LENGTH OF ONE INCH CONNECTION DOES NOT EXCEED 75 FEET AS MEASURED FROM THE MAIN TO THE POINT OF ENTRY INTO THE PROPOSED HOME/UNIT.
- THE CONNECTIONS DO NOT INCLUDE LIMITED AREA OR NFPA 13D SPRINKLER SYSTEMS

ANY SERVICE REQUESTS DIFFERING FROM THE STATED CRITERIA SHALL REQUIRE THE SUBMITTAL OF A COMPLETE WATER SERVICE APPLICATION FOR EACH WATER SERVICE REQUESTED.

25. ALL CURB VALVE BOXES & METER VAULTS WILL BE INSTALLED IN GRASS AREAS WHEN POSSIBLE. CURB VALVES SHALL BE PLACED APPROXIMATELY 2 FEET OFF THE CURB. CURB VALVES IN EASEMENTS SHALL BE PLACED APPROXIMATELY 3 FEET OFF THE WATER MAIN. IF VALVE BOXES OR METER VAULTS ARE INSTALLED OUTSIDE OF A DEDICATED RIGHT OF WAY OR EASEMENT FOR THE PURPOSES OF WATER SUPPLY, A STANDARD CLEVELAND EASEMENT FOR A VAULT SHALL BE PROVIDED.

EMERGENCIES:

26. IF A WATER MAIN OR SERVICE CONNECTION BREAK OCCURS DURING CONSTRUCTION AND EMERGENCY ASSISTANCE IS REQUIRED, PLEASE NOTIFY CLEVELAND WATER AT 216-664-3060. THIS LINE IS AVAILABLE 24/7/365

DATE 01/01/2019 BY: FSR STD-011 (PAGE 3 OF 3)

Preliminary - Not for Construction - For Reference Only

WATER WORK NOTES AND DETAILS

DESIGN AGENCY
AECOM

DESIGNER MAW
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.1014 TOTAL P.1269

CUY-77-11.41 - PART 1

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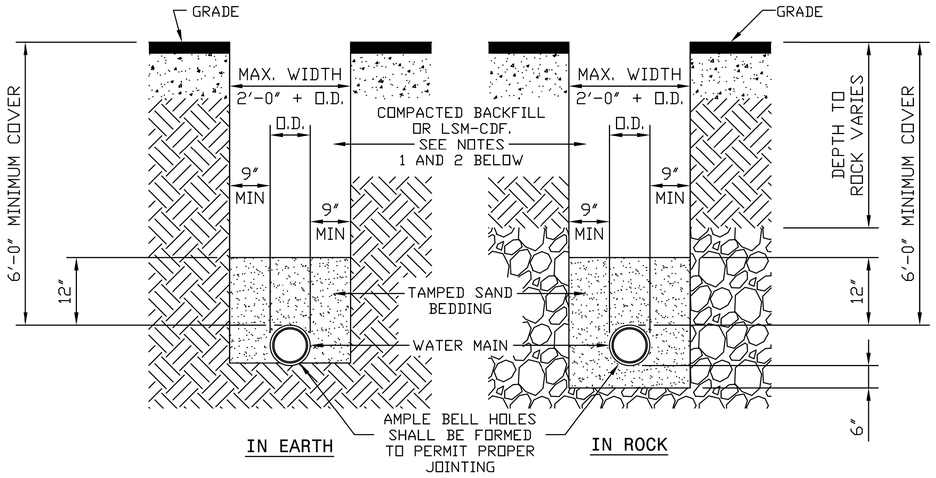
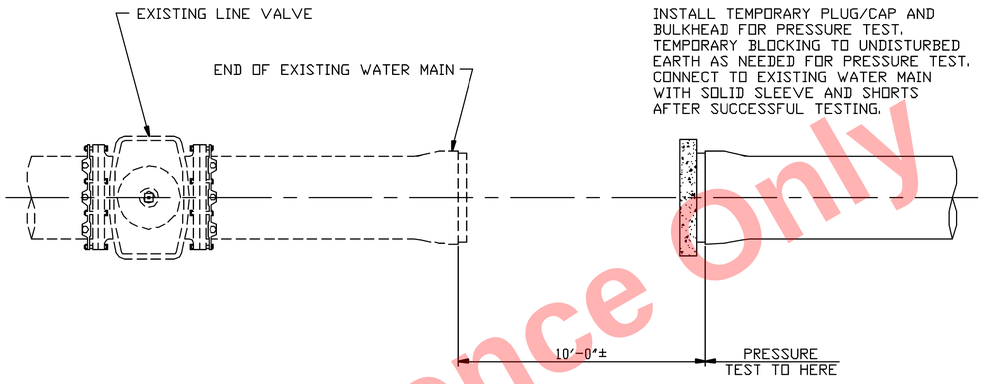


WATER MAIN TRENCH DETAILS

- NOT TO SCALE -

NOTES:
1) PREMIUM BACKFILL CONSISTING OF LOW STRENGTH MORTAR - CONTROLLED DENSITY FILL (LSM-CDF) "FLOWABLE FILL" IS REQUIRED:
   A) UNDER ALL EXISTING OR FUTURE PAVEMENTS, SIDEWALKS AND DRIVES WITHIN THE CITY OF CLEVELAND CORPORATION LIMITS.
   B) AS SPECIFIED IN LOCAL MUNICIPALITIES SERVED BY CWD (SEE LOCAL REQUIREMENTS)
2) WHEN PREMIUM BACKFILL IS REQUIRED BY THE LOCAL MUNICIPALITY FOR CASES OTHER THAN THOSE LISTED IN NOTE 1 ABOVE, IT SHALL BE LIMESTONE GRADED PER ODOT 304.02 OR ODOT 411. NO SLAG IS PERMITTED.
3) CONTRACTOR SHALL USE SPECIAL CARE IN PLACING THE SAND BEDDING, SO AS TO AVOID SCRAPING OF THE EXTERIOR COATING, INJURING THE PIPE, DISTORTING OR MOVING THE PIPE WHEN COMPACTING THE SAME. THE SAND BEDDING SHALL BE TAMPED IN SIX (6) INCH LAYERS, SIMULTANEOUSLY ON EACH SIDE OF THE PIPE, AND THOROUGHLY COMPACTED SO AS TO PROVIDE A SOLID BACKING AGAINST THE EXTERNAL SURFACE OF THE PIPE.
4) MINIMUM COMPACTION FOR ALL SAND BEDDING, BACKFILL AND PREMIUM BACKFILL SHALL BE 95% STANDARD PROCTOR.
5) PAVEMENT, SIDEWALK OR DRIVES TO BE INSTALLED IN ACCORDANCE WITH LOCAL MUNICIPALITY'S SPECIFICATIONS.

STD-001 | DATE: 6-21-2012

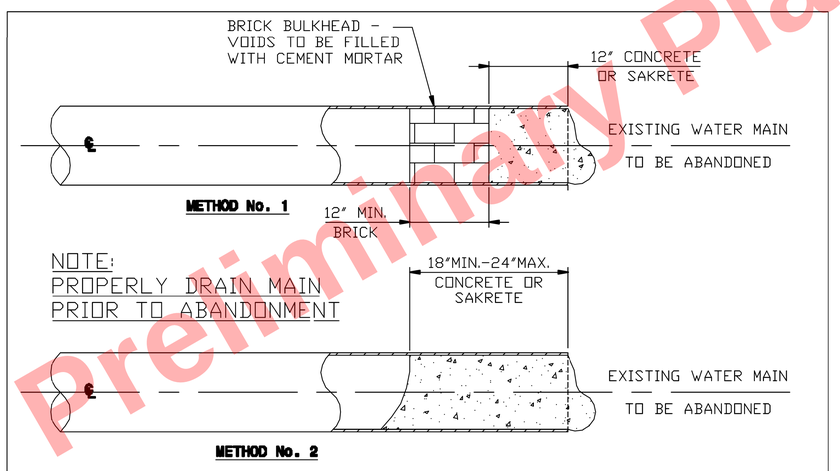


NOTE:
PRESSURE TESTING OF WATER MAINS:
WHERE NEW/EXTENDED WATER MAINS ARE CONNECTED TO AN EXISTING WATER MAIN FOR PRESSURE TEST, RESULTING IN FAILURE OF THE PRESSURE TEST OR ANY DAMAGE TO THE EXISTING WATER MAIN , OR ITS APPURTENANCES, THE REPAIR THEREOF SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ALL REPAIRS SHALL BE DONE TO THE SATISFACTION OF THE DIVISION OF WATER.

ALTERNATE PRESSURE TESTING DETAIL

- NOT TO SCALE -

STD-002 | DATE: 10-1-97 | BY: RSK



PLUGGING ABANDONED WATER MAIN ENDS

- NOT TO SCALE -

STD-004 | DATE: 10-1-97 | BY: RSK

Preliminary Plans - For Reference Only

DESIGN AGENCY
AECOM

DESIGNER
MAW

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.1015 | TOTAL P.1269

CUY-77-11.41 - PART 1
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sydney.stefanek@trcext.com
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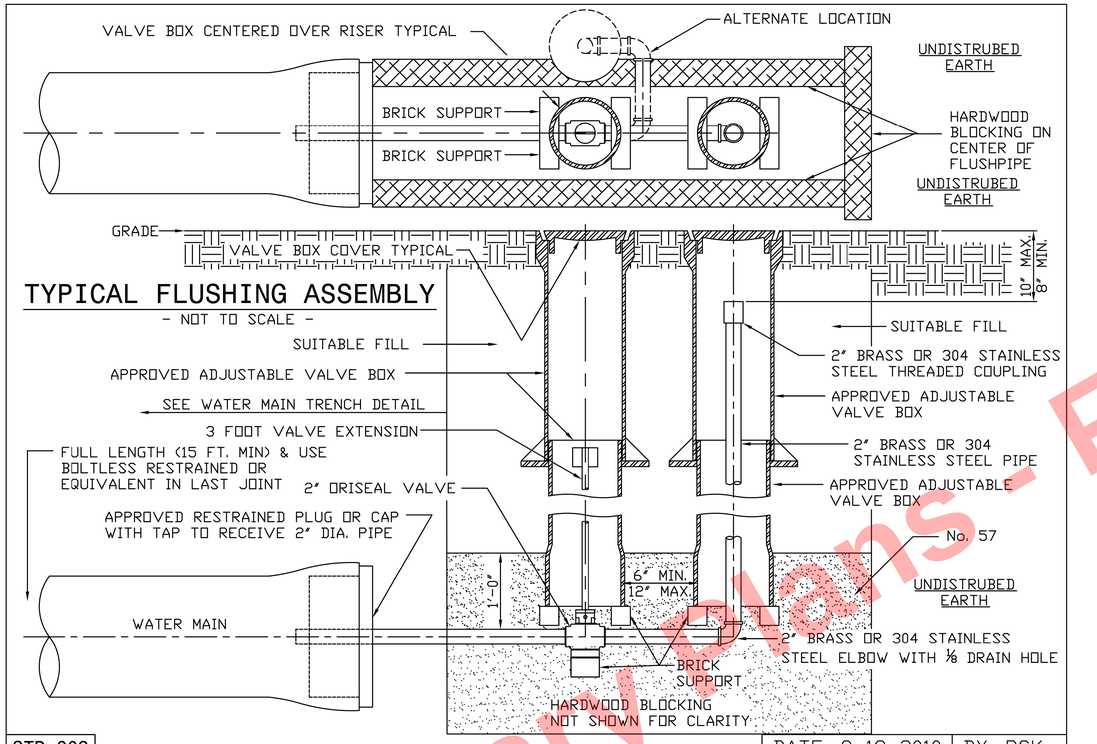
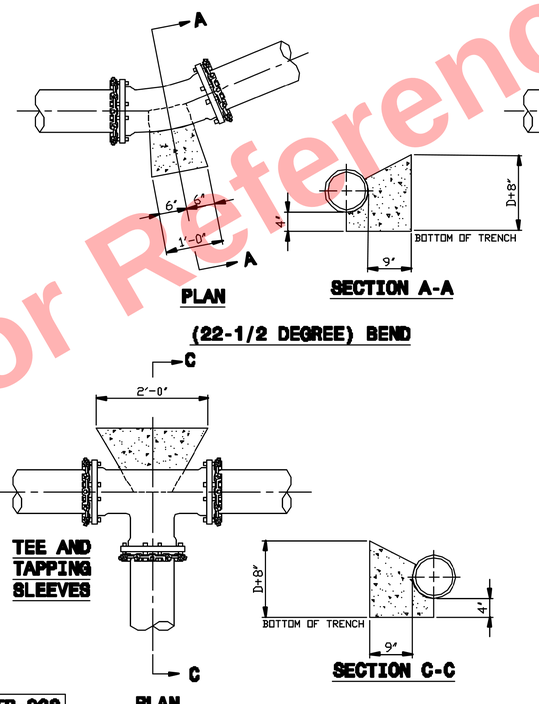
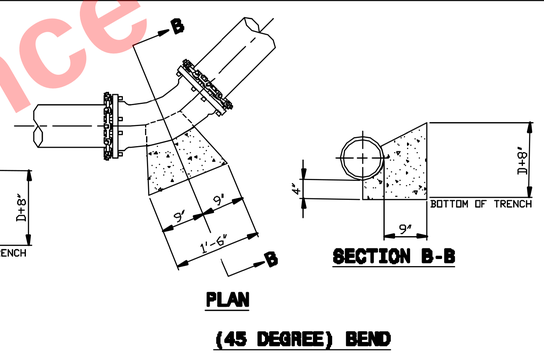


TYPICAL FLUSHING ASSEMBLY

- NOT TO SCALE -

STD-003	DATE: 8-19-2010	BY: RSK





(45 DEGREE) BEND

TYPICAL THRUST BLOCK DETAIL FOR HORIZONTAL DEFLECTION FOR PIPE UP TO 16" DIAMETER

- NOT TO SCALE -
D = PIPE DIAMETER

NOTE 1: ALL DIMENSIONS SHOWN HEREON ARE MINIMUM; THRUST BLOCK SHALL BE POURED TO UNDISTURBED EARTH.

NOTE 2: ALL CONCRETE FOR THRUST BLOCKS SHALL BE CLASS "C" HAVING 4,000 PSI 28 DAY COMPRESSIVE STRENGTH.

NOTE 3: DO NOT COVER BOLTS WITH CONCRETE ON MECHANICAL JOINTS.

NOTE 4: USE FORMS WHEN POURING CONCRETE TO MAINTAIN SHAPE AND DIMENSIONS OF THRUST BLOCKS.

STD-006	DATE: 1-15-98	BY: RSK

Preliminary Plans - For Reference Only

DESIGN AGENCY
AECOM
DESIGNER
MAW
REVIEWER
AKM 05/01/26
PROJECT ID
105743
SHEET P.1016 TOTAL P.1269

CUY-77-11.41 - PART 1
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*CONNECTION SHALL BE MADE WITH RETAINED MECHANICAL JOINT SOLID SLEEVES (SHORT OR LONG PATTERN) DUCTILE IRON CLASS 350 OR CAST IRON CLASS 250 OR COMPRESSION COUPLINGS.

COMPRESSION COUPLINGS SHALL BE OF A GASKETED, SLEEVE TYPE WITH DIAMETERS TO PROPERLY FIT PLAIN END IRON PIPE. EACH COUPLING SHALL CONSIST OF ONE (1) MIDDLE RING, WITHOUT STOPS; TWO (2) FOLLOWER GLANDS; TWO (2) RUBBER-COMPOUND BUNA-N BLEND, WEDGE SECTION GASKETS; AND SUFFICIENT TRACKHEAD STAINLESS STEEL BOLTS AND NUTS (ASTM A276/A193/194, TYPE 304, EXTRA HEAVY HEX) TO PROPERLY COMPRESS THE GASKETS.

MIDDLE RING AND FOLLOWER GLANDS SHALL BE OF EITHER STEEL OR DUCTILE IRON (ASTM-A536).

THE COMPRESSION COUPLING SHALL BE WITHOUT STOPS AND BE RATED FOR A MINIMUM WORKING PRESSURE OF 250 PSI AND SHALL BE EQUAL TO THE DRESSER STYLE No's 38, 138 OR 162 (TRANSITION TYPE), OR SMITH-BLAIR 441 STRAIGHT AND TRANSITION COUPLINGS.

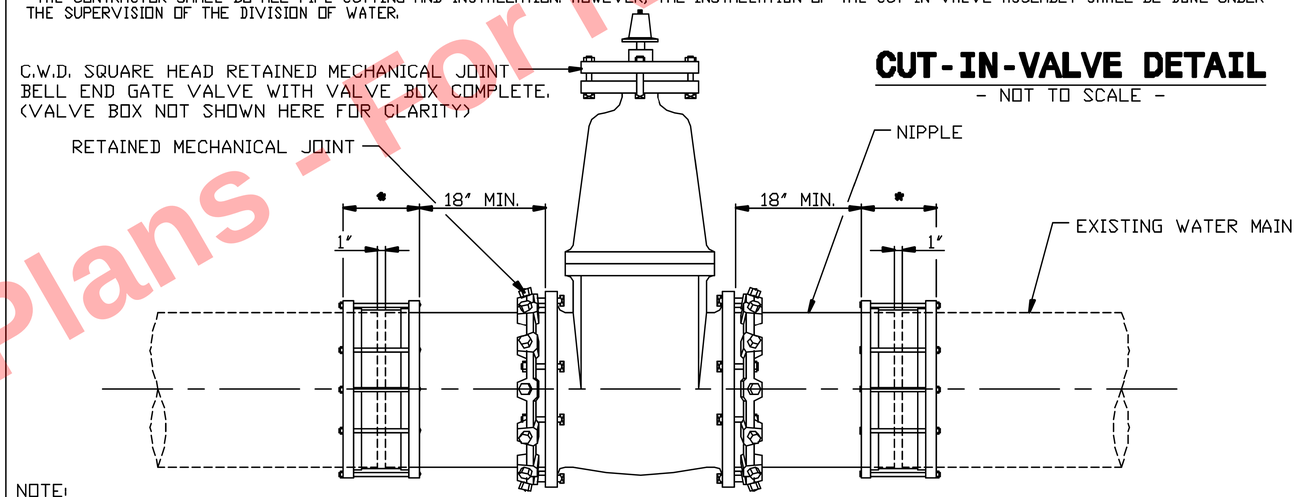
ALL BOLTS AND NUTS ON ALL MECHANICAL JOINTS, INCLUDING THOSE ON THE 'RETAINED' TYPE, SHALL HAVE FIELD APPLIED ONE (1) COAT OF BITUMASTIC PAINTING FOLLOWED BY AN ENCASEMENT OF POLYETHYLENE WRAPPING IN ACCORDANCE WITH ANSI/AWWA C-105/A21.5-88, CLASS 'C', METHOD 'B'.

THE DIVISION OF WATER WILL DETERMINE THE FIELD LOCATION OF THE CUT-IN-VALVE ASSEMBLY. THE DIVISION OF WATER WILL ALSO SET THE TIME OF INSTALLATION OF THE CUT-IN-VALVE ASSEMBLY.

THE CONTRACTOR SHALL DO ALL PIPE CUTTING AND INSTALLATION. HOWEVER, THE INSTALLATION OF THE CUT-IN-VALVE ASSEMBLY SHALL BE DONE UNDER THE SUPERVISION OF THE DIVISION OF WATER.

CUT-IN-VALVE DETAIL

- NOT TO SCALE -



NOTE:
BEFORE CUTTING EXISTING WATER MAIN, THE NIPPLES SHALL BE CONNECTED TO THE MECHANICAL JOINT BELL END GATE VALVE. AFTER CUTTING PIPE, FINAL CONNECTIONS SHALL BE MADE WITH COUPLINGS/SOLID SLEEVES AS SPECIFIED.

STD-005	DATE: 10-1-97	BY: RSK

Preliminary Plans - For Reference Only

WATER WORK NOTES AND DETAILS

DESIGN AGENCY
AECOM

DESIGNER MAW
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.1017 TOTAL P.1269

CUY-77-11.41 - PART 1

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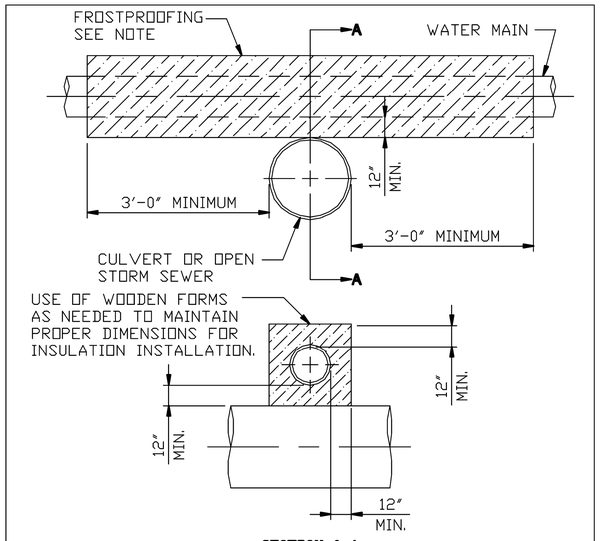


SECTION A-A

MINIMUM ONE (1) FOOT FROSTPROOFING INSULATION ENVELOPE REQUIRED WITH WATER MAIN LAID WITH LESS THAN FIVE (5) FT. COVER; CROSSING OVER STORM SEWERS 24" AND LARGER; OR CROSSING UNDER OPEN END CULVERTS, OR OTHERWISE DIRECTED BY C.W.D.

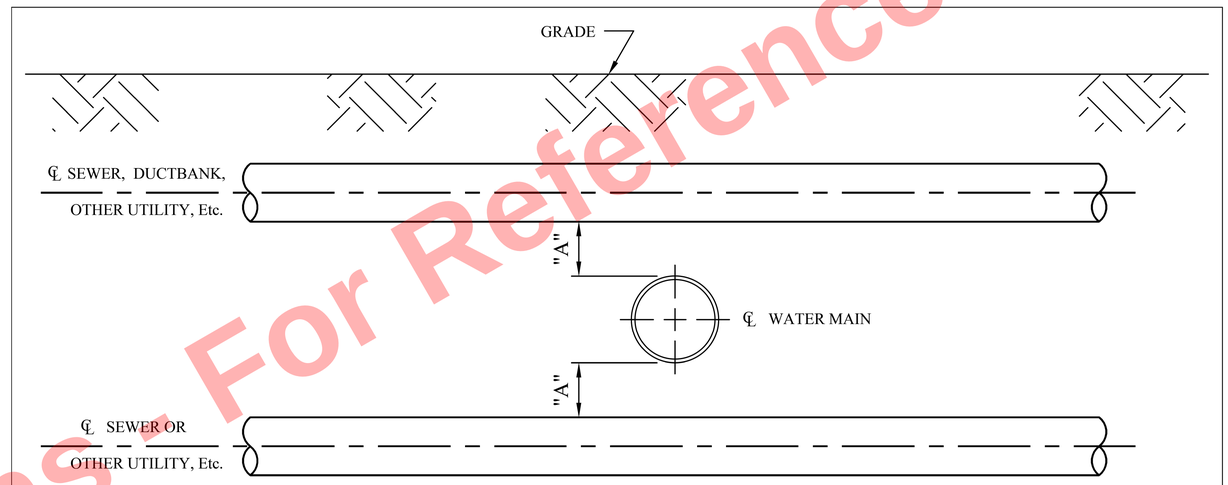
IN NO CASE SHALL THE MAINS BE LAID WITH LESS THAN 3'-6" OF COVER IN UNPAVED AREAS & 3'-0" TO BOTTOM OF SLAB IN PAVED AREAS.

NOTE:
COMPACTED "WITCOLITE" INSULATION AS MANUFACTURED BY PIONEER PRODUCTS, DIVISION OF WITCO CHEMICAL COMPANY, INC. OR "GILSULATE 500 XR" AS MANUFACTURED BY AMERICAN THERMAL PRODUCTS, INC.

TYPICAL FROSTPROOFING DETAIL

- NOT TO SCALE -

STD-009	DATE: 10-1-97	BY: RSK



PROFILE VIEW

- SEE STD-017 FOR PLAN VIEW -

VERTICAL CLEARANCE	SANITARY SEWER LESS THAN 24"	SANITARY SEWER 24" & LARGER	STORM SEWER, DUCTBANK, GAS, OTHER UTILITY LESS THAN 24"	STORM SEWER, DUCTBANK, GAS, OTHER UTILITY 24" & LARGER	REMARKS
"A"	18" Min.	18" Min.	18" Min.	18" Min.	IF CANNOT ACHIEVE MIN. CLEARANCE WATER MAIN TO BE LOWERED

VERTICAL CLEARANCE FOR UTILITIES

NOT TO SCALE

STD-018	DATE: 7-02-2014	BY: MTA

For Reference Only
Preliminary Plans - Pending

WATER WORK NOTES AND DETAILS

DESIGN AGENCY
AECOM

DESIGNER MAW
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.1018 TOTAL P.1269

CUY-77-11.41 - PART 1

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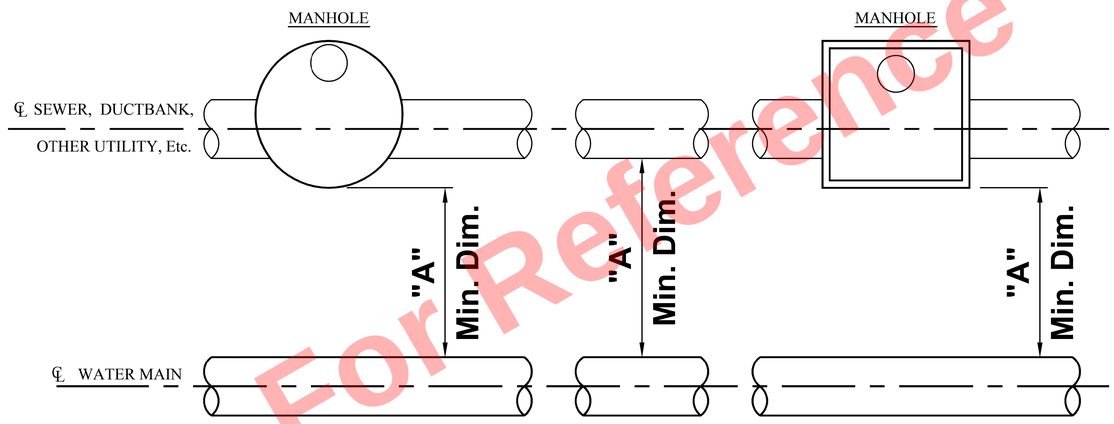

PLAN VIEW

- SEE STD-018 FOR PROFILE VIEW -

HORIZONTAL CLEARANCE	STORM SEWER	SANITARY SEWER	GAS, DUCTBANK, OTHER UTILITY, Etc.
"A"	10'-0" MIN.	10-0" MIN.	5'-0" MIN.

HORIZONTAL CLEARANCE FOR UTILITIES

NOT TO SCALE

STD-017 | DATE: 7-02-2014 | BY: MTA

Preliminary Plans - For Reference Only

DESIGN AGENCY
AECOM
DESIGNER
MAW
REVIEWER
AKM 05/01/26
PROJECT ID
105743
SHEET P.1019 TOTAL P.1269

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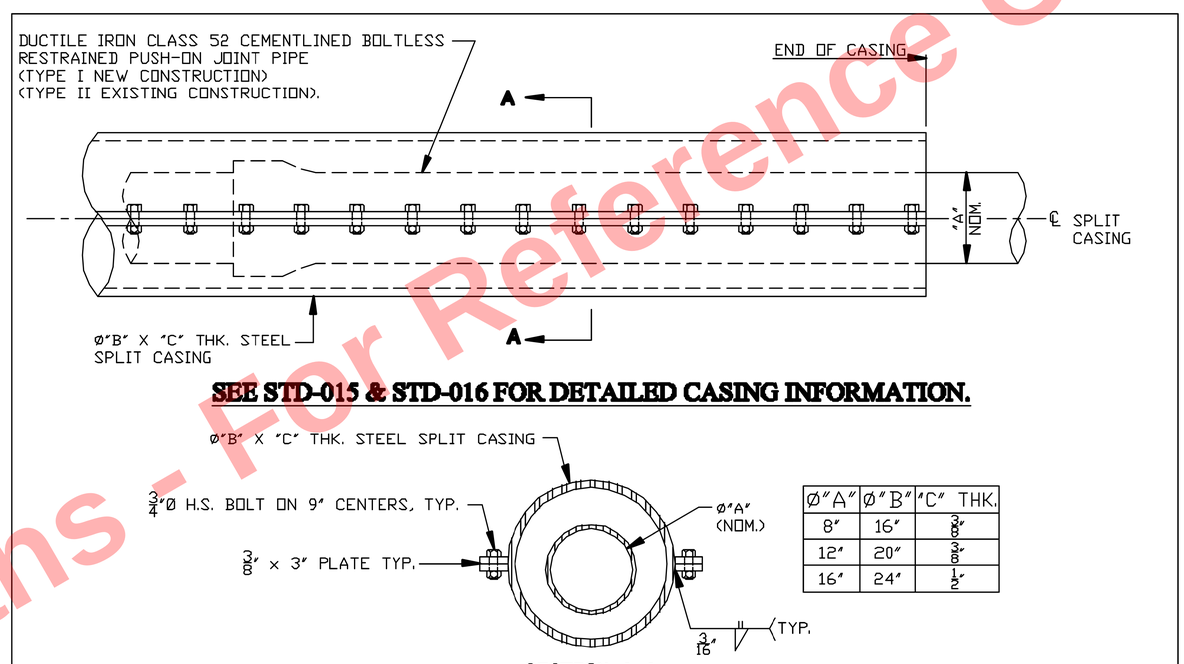
Preliminary Plans - For Reference Only



Ø"A"	Ø"B"	"C" THK.
8"	16"	3/8"
12"	20"	3/8"
16"	24"	1/2"

SPLIT CASING DETAIL

- NOT TO SCALE -

STD-021

DATE: 9-16-1999 | BY: RSK

DESIGN AGENCY
AECOM

DESIGNER MAW
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.1020 TOTAL P.1269

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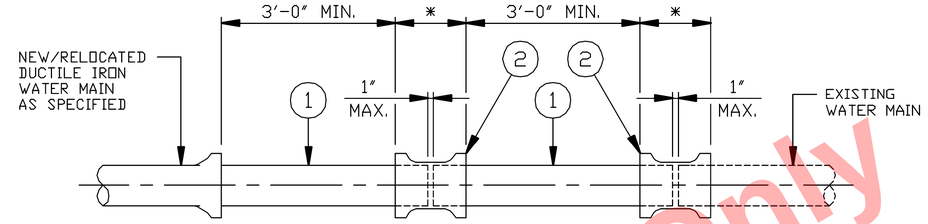
Preliminary Plans - For Reference Only



SLEEVE-IN INSTALLATION DETAIL

- NOT TO SCALE -

1) PLAIN END x PLAIN END DUCTILE IRON PIPE AS SPECIFIED (CUT TO SUIT).

2) *CONNECTION SHALL BE MADE WITH RETAINED MECHANICAL JOINT SOLID SLEEVES (SHORT OR LONG PATTERN) DUCTILE IRON CLASS 350 OR CAST IRON CLASS 250 OR COMPRESSION COUPLINGS.

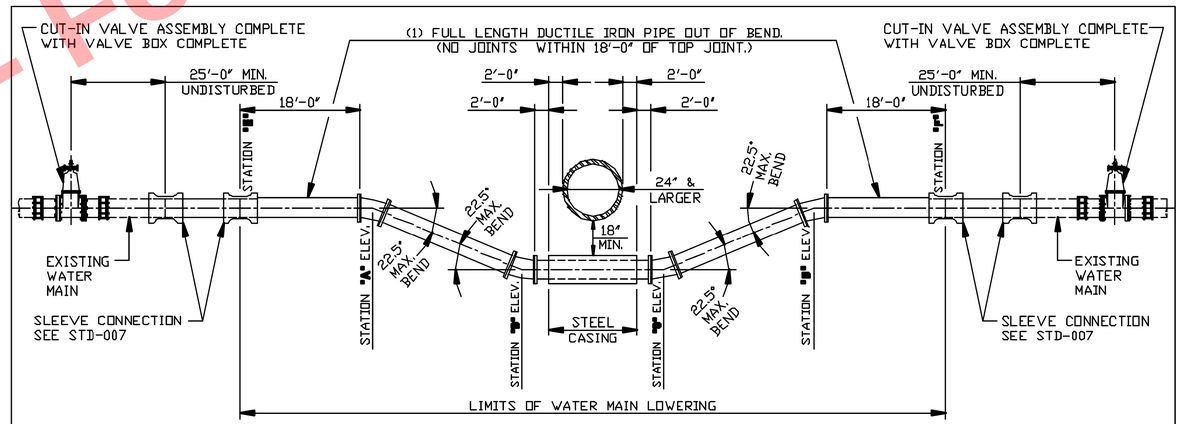
COMPRESSION COUPLINGS SHALL BE OF A GASKETED, SLEEVE TYPE WITH DIAMETERS TO PROPERLY FIT PLAIN END IRON PIPE. EACH COUPLING SHALL CONSIST OF ONE (1) MIDDLE RING, WITHOUT STOPS; TWO (2) FOLLOWER GLANDS; TWO (2) RUBBER-COMPOUND BUNA-N BLEND, WEDGE SECTION GASKETS; AND SUFFICIENT TRACKHEAD STAINLESS STEEL BOLTS AND NUTS (ASTM A276/A193/194, TYPE 304, EXTRA HEAVY HEX) TO PROPERLY COMPRESS THE GASKETS.

MIDDLE RING AND FOLLOWER GLANDS SHALL BE OF EITHER STEEL OR DUCTILE IRON (ASTM-A536).

THE COMPRESSION COUPLING SHALL BE WITHOUT STOPS AND BE RATED FOR A MINIMUM WORKING PRESSURE OF 250 PSI AND SHALL BE EQUAL TO THE DRESSER STYLE No's 38, 138 OR 162 (TRANSITION TYPE), OR SMITH-BLAIR 441 STRAIGHT AND TRANSITION COUPLINGS.

3) ALL BOLTS AND NUTS ON ALL MECHANICAL JOINTS, INCLUDING THOSE ON THE 'RETAINED' TYPE, SHALL HAVE FIELD APPLIED ONE (1) COAT OF BITUMASTIC PAINTING FOLLOWED BY AN ENCASEMENT OF POLYETHYLENE WRAPPING IN ACCORDANCE WITH ANSI/AWWA C-105/A21.5-88, CLASS 'C', METHOD 'B'.

STD-007 | DATE: 10-1-97 | BY: RSK



NOTE:

1) WATER MAIN SHALL BE DUCTILE IRON, MINIMUM CLASS 52, CEMENT LINED PUSH-ON JOINT PIPE WITH RETAINED MECHANICAL JOINT DUCTILE IRON CLASS 350, CEMENT LINED OR FUSION BONDED EPOXY COATED RETAINED MECHANICAL JOINT FITTINGS.

2) WHERE DEPTH OF LOWERING REQUIRES AN INTERMEDIATE JOINT BETWEEN STATIONS **"A"** & **"B"** AND/OR **"C"** & **"D"** THE ENTIRE LOWERING SHALL BE MADE WITH DUCTILE IRON, MINIMUM CLASS 52, CEMENT LINED PIPE AND DUCTILE IRON CLASS 350, CEMENT LINED FITTINGS **ALL** HAVING BOLTLESS RESTRAINED PUSH-ON JOINTS, TYPE II.

3) WHERE LENGTH OF LOWERING UNDER OBSTRUCTIONS) REQUIRES AN INTERMEDIATE JOINT **ONLY** BETWEEN STATIONS **"B"** & **"C"**, THAT INTERMEDIATE JOINT(S) SHALL BE MADE WITH A BOLTLESS RESTRAINED PUSH-ON JOINT, TYPE II.

4) WHERE EXISTING WATER MAIN IS SIX (6)-INCHES IN DIAMETER THE PIPE LOWERING SHALL BE MADE WITH PIPE AND FITTINGS NO LESS THAN EIGHT (8)-INCH IN DIAMETER WITH REDUCERS INSTALLED AT STATIONS **"E"** AND **"F"**. THE REDUCERS SHALL BE RETAINED MECHANICAL JOINT WITH SMALL END OF REDUCER PLAIN END FOR CONNECTION WITH SLEEVES OR COMPRESSION COUPLINGS.

5) ALL EXISTING WATER SERVICE CONNECTIONS BETWEEN THE CUT-IN-VALVE ASSEMBLIES SHALL BE MAINTAINED BY 'TEMPORARY SERVICE CONNECTIONS' PROVIDED AND MAINTAINED BY THE CONTRACTOR.

6) EXISTING WATER SERVICE CONNECTIONS NEEDED TO BE RETAPPED AND RECONNECTED WILL ONLY BE PERMITTED BETWEEN STATIONS **"A"** AND **"E"** AND STATIONS **"B"** AND **"F"**. NO RETAPPING OF SERVICE CONNECTIONS WILL BE ALLOWED BETWEEN STATIONS **"A"** AND **"B"**.

DETAIL FOR WATER MAIN LOWERING UNDER OBSTRUCTIONS 24" & LARGER IN DIAMETER OR WIDTH FOR "EXISTING CONSTRUCTION"

- NOT TO SCALE -

STD-L03 | DATE: 3-4-2002 | BY: RSK

WATER WORK NOTES AND DETAILS

DESIGN AGENCY
AECOM

DESIGNER MAW
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.1021 TOTAL P.1269

CUY-77-11.41 - PART 1

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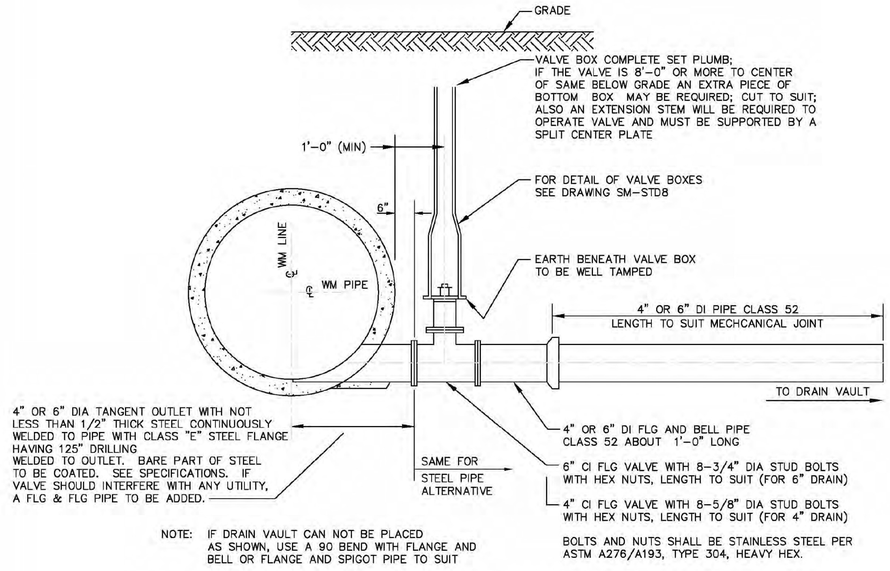
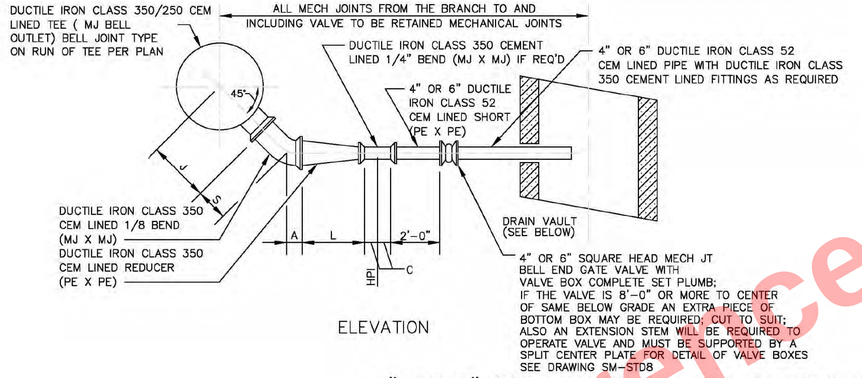


NOTE: IF DRAIN VAULT CAN NOT BE PLACED AS SHOWN, USE A 90 BEND WITH FLANGE AND BELL OR FLANGE AND SPIGOT PIPE TO SUIT

4" OR 6" DRAIN ASSEMBLY FOR PCC PIPE DETAIL

NOT TO SCALE

4" ASSEMBLIES REQUIRED ON 20", 24", & 30", PIPE
6" ASSEMBLIES REQUIRED ON 36", 42", & 48", PIPE



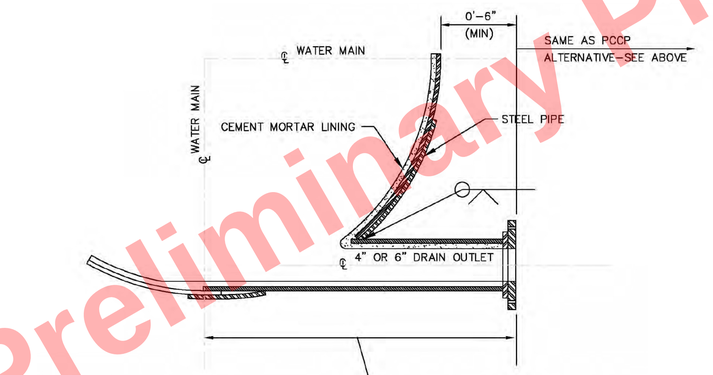
4" OR 6" DRAIN ASSEMBLY FOR DUCTILE IRON PIPE DETAIL

NOT TO SCALE

4" ASSEMBLIES REQUIRED ON 20", 24", & 30", PIPE
6" ASSEMBLIES REQUIRED ON 36", 42", & 48", PIPE

DUCTILE IRON DRAIN ASSEMBLY-SCHEDULE

TEE			1/8 BEND		REDUCER		1/4 BEND	
SIZE	H	J	S	A	SIZE	L	4"	6"
20"X 6"	14"	17"	13"	5"	6"X 4"	25"	6 1/2"	–
24"X 6"	15"	19"	13"	5"	6"X 4"	25"	6 1/2"	–
30"X 6"	18"	23"	13"	5"	6"X 4"	25"	6 1/2"	–
36"X 8"	20"	26"	13.5"	5.5"	8"X 4"	27"	6 1/2"	–
36"X 8"	20"	26"	13.5"	5.5"	8"X 6"	27"	–	8"
42"X12"	23"	30"	15.5"	7.5"	12"X 6"	30"	–	8"
48"X12"	26"	34"	15.5"	7.5"	12"X 6"	30"	–	8"

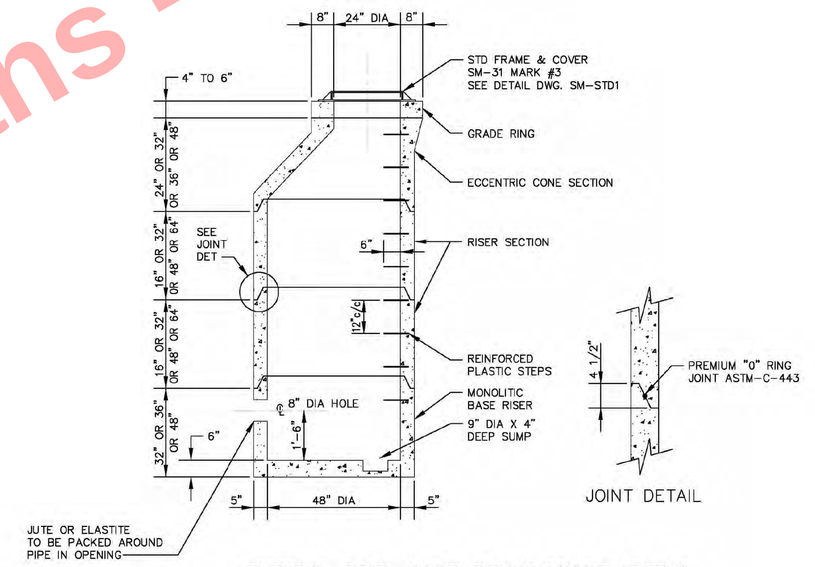


NOTE: IF DRAIN VAULT CAN NOT BE PLACED AS SHOWN, USE A 90° BEND WITH FLANGE AND BELL OR FLANGE AND SPIGOT PIPE TO SUIT

4" ASSEMBLIES REQUIRED ON 20", 24", & 30" PIPE
6" ASSEMBLIES REQUIRED ON 36", 42", & 48" PIPE

4" OR 6" TANGENTIAL OUTLET FOR STEEL PIPE DETAIL

NOT TO SCALE

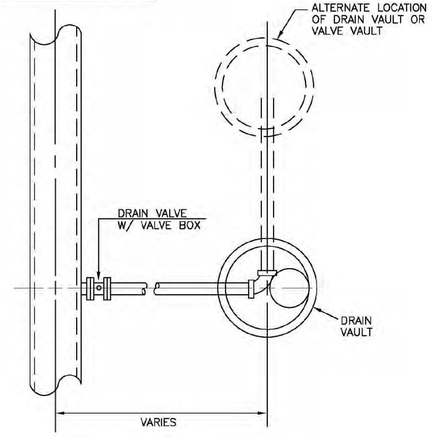


TYPICAL PRE-CAST DRAIN VAULT DETAIL

NOT TO SCALE

NOTES:

REINFORCING TO CONSIST OF WELDED STEEL WIRE: 9 GAUGE WIRE AT 12" c/c VERTICALLY AND 4 GAUGE WIRE AT 4" c/c HORIZONTALLY PLACED IN CENTER OF WALL.



PLAN VIEW

TYPICAL DRAIN ASSEMBLY

N.T.S.

REVISIONS		
NO.	DATE	BY

STANDARD DETAILS

DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER
CLEVELAND, OHIO

SUBJECT DRAIN ASSEMBLY DETAILS
OUTLET/ DRAIN/ VAULT DETAILS

DRAWN BY DLT\PB
DESIGNED BY
CHECKED BY DATE 10/1/97
SCALE NONE
No. SM-STD7

WATER WORK NOTES AND DETAILS

DESIGN AGENCY
AECOM

DESIGNER MAW
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.1022 TOTAL P.1269

CUY-77-11.41 - PART 1

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Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1
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sydney.stefanek@trcext.com
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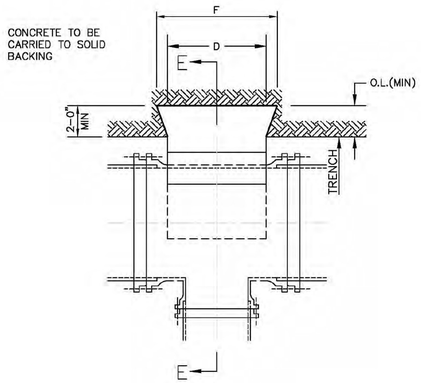
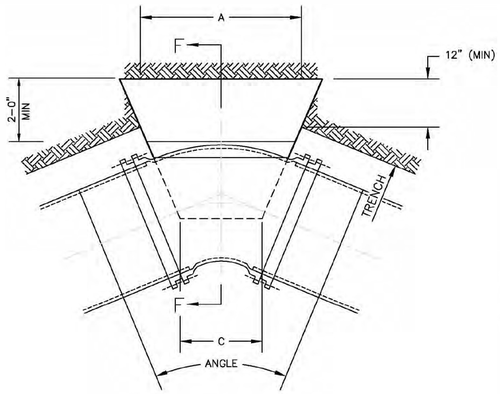


PLAN



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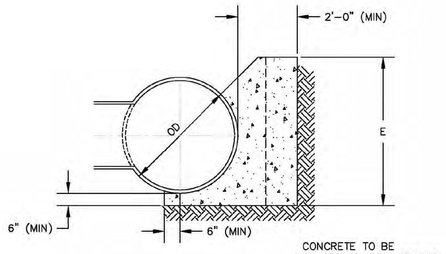


CONCRETE TO BE PLACED ON FIRM GROUND

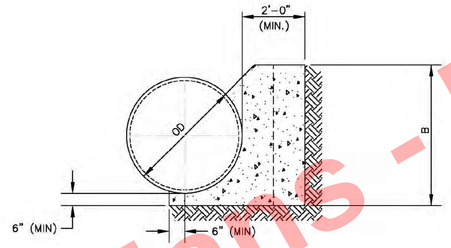
SECTION E-E

CONCRETE PIERS FOR TEES

NOT TO SCALE

CONCRETE PIERS-SCHEDULE

PIPE SIZE	D (APPROX.)	E (MIN)	F (MIN)
6"-8"	1'-6"	1'-6"	3'-6"
12"	2'-0"	1'-10"	4'-0"
16"	2'-6"	2'-2"	4'-6"
20"	3'-0"	3'-2"	5'-0"
24"	3'-8"	3'-8"	5'-8"
30"	4'-2"	4'-2"	6'-2"
36"	4'-8"	4'-8"	6'-8"
42"	5'-2"	5'-4"	7'-2"
48"	5'-8"	5'-10"	7'-8"



SECTION F-F

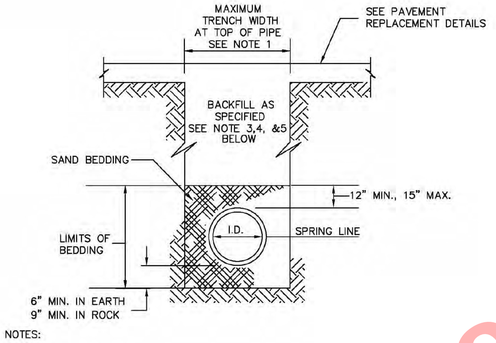
CONCRETE PIERS FOR BENDS

NOT TO SCALE

CONCRETE PIERS-SCHEDULE

PIPE SIZE	11-1/4°, 22-1/2°, 45° A (MIN)	B (MIN)	C (APPROX.)
6"-8"	2'-8"	1'-6"	0'-8"
12"	3'-0"	1'-10"	1'-0"
16"	3'-2"	2'-2"	1'-0"
20"	3'-10"	3'-2"	1'-3"
24"	4'-3"	3'-8"	1'-6"
30"	5'-0"	4'-2"	2'-0"
36"	5'-6"	4'-8"	2'-6"
42"	6'-0"	5'-4"	3'-0"
48"	7'-0"	5'-10"	3'-6"

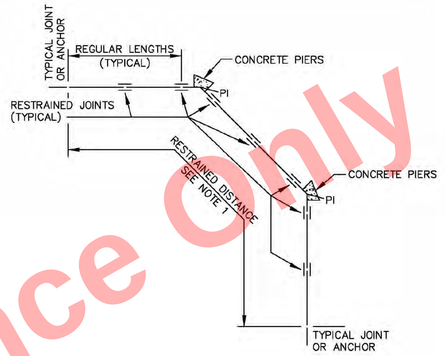
NOTE: DIMENSIONS HEREON FOR CONCRETE PIER ARE APPROXIMATE AND FOR AND FOR REFERENCE ONLY. ALL CONCRETE SHALL BE FORMED AND POURED TO UNDISTURBED EARTH.



NOTES:

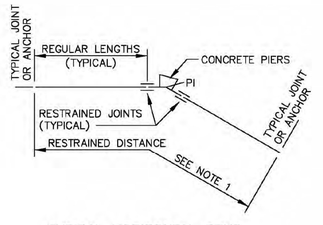
1. THE MINIMUM WIDTH OF UNSHEETED TRENCH SHALL BE EIGHTEEN(18) INCHES LARGER THAN THE OUTSIDE DIAMETER OF THE PIPE EXCEPT BY CONSENT OF THE ENGINEER; THE MAXIMUM CLEAR WIDTH OF THE TRENCH SHALL NOT BE NOT MORE THAN TWO(2) FEET GREATER THAN THE OUTSIDE PIPE DIAMETER . WHEN SHEETING AND BRACING IS USED, THE TRENCH WIDTH SHALL BE INCREASED ACCORDINGLY.
2. ALL TRENCH EXCAVATION SHALL CONFORM TO THE RULES AND REGULATIONS OF THE OHIO STATE INDUSTRIAL COMMISSION (OSIC) AND THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
3. BACKFILLING SHALL CONSIST OF A SAND BEDDING BACKFILL, AND BACKFILL EXCAVATED FROM THE TRENCHES , OR WHERE REQUIRED, PREMIUM BACKFILL MATERIAL. BACKFILL ABOVE THE ONE (1) FOOT SAND BEDDING BACKFILL MAY BE MADE WITH MATERIAL EXCAVATED FROM THE TRENCHES, PROVIDING SAME IS SATISFACTORY TO THE ENGINEER. IF, IN THE OPINION OF THE ENGINEER, THE MATERIAL EXCAVATED IS UN SATISFACTORY, THE CONTRACTOR SHALL FURNISH, AT HIS OWN EXPENSE, OTHER MATERIAL SUITABLE FOR BACKFILL. ALL BACKFILL SHALL BE CAREFULLY PLACED INTO TRENCH AND NOT DOZED OR DUMPED FROM THE TOP OF THE TRENCH.
4. PREMIUM BACKFILL SHALL BE PLACED WHERE EXISTING AND FUTURE PERMANENT PAVEMENT, SIDEWALKS, DRIVEWAYS, SEWER PIPE CROSSINGS AND CURB CROSSINGS HAVE BEEN OPEN OR UNDER-CUT. THE PLACE OF PREMIUM BACKILL ALSO APPLIES TO ALL EXCAVATION WITHIN THREE(3) FEET OF EXISTING OR FUTURE PERMANENT PAVEMENT, SIDEWALKS, DRIVEWAYS, DRIVEWAY APRONS, SEWER PIPE CROSSINGS AND CURB CROSSINGS. IF PART OF THE TRENCH IS UNDER EXISTING OR FUTURE PAVEMENT, SIDEWALK, DRIVEWAY, DRIVEWAY APRONS, OR CURB THE ENTIRE TRENCH SHALL BE BACKFILLED WITH PREMIUM BACKFILL.
5. PREMIUM BACKFILL SHALL CONSIST OF CRUSHED LIMESTONE. THE PREMIUM BACKFILL SHALL BE AS SUCH THAT CAN BE READILY INCORPORATED IN AN 8-INCH LAYER AND SHALL BE IN ACCORDANCE WITH OHIO DEPARTMENT OF TRANS-PORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS, ITEM 304, "AGGREGATE BASE," SECTION304.02, "AGGREGATE." SEE DETAIL SPECIFICATIONS, PART D, SECTION D-27, PARAGRAPH H.

TRENCH & BEDDING DETAILS



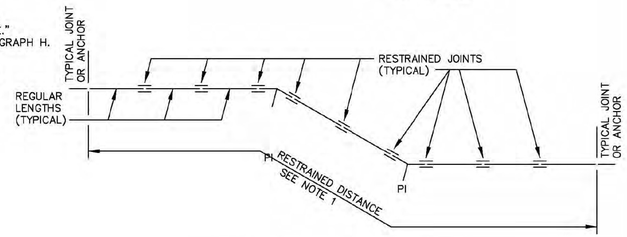
TYPICAL HORIZONTAL BENDS

NOT TO SCALE



TYPICAL HORIZONTAL BEND

NOT TO SCALE



TYPICAL VERTICAL BENDS

NOT TO SCALE

RESTRAINED DISTANCE

NOTES:

1. THE HORIZONTAL AND VERTICAL BENDS LAYOUTS SHOW TYPICAL ARRANGEMENT FOR BOTH HORIZONTAL AND VERTICAL BENDS. IN SPECIAL CASES MAY REQUIRE A COMBINATION OF HORIZONTAL AND VERTICAL "RESTRAINED DISTANCES," OR THE TIED DISTANCE MAY END AT AN ANCHOR INSTEAD OF TYPICAL JOINT. THE PLAN AND PROFILE DRAWINGS GIVE DEFINATE "RESTRAINED DISTANCES" AT ALL REQUIRED POINTS. THE STRAIGHT LENGTHS OF PIPE DESIGNATED AS "REGULAR LENGTHS" SHALL BE MINIMUM 20'-0" LONG.

REVISIONS		
NO.	DATE	BY

STANDARD DETAILS

DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER
CLEVELAND, OHIO

SUBJECT THRUST BLOCK, RESTRAINT & AND TRENCH DETAILS

DRAWN BY DLT\PB
DESIGNED BY
CHECKED BY DATE 10/1/97
SCALE NONE
No. SM-STD11

Preliminary Plans - For Reference Only

WATER WORK NOTES AND DETAILS

DESIGN AGENCY
AECOM

DESIGNER MAW
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.1023 TOTAL P.1269

REF NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	202	SPECIAL	SPECIAL	638	638	638	SPECIAL	638	638	638	638	638												
								PIPE REMOVED, 24" AND UNDER	FILL AND PLUG EXISTING CONDUIT, 12" WATER MAIN	FILL AND PLUG EXISTING CONDUIT, 36" WATER MAIN	12" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, BOLTLESS-RESTRAINED JOINTS AND FITTINGS, AS PER PLAN	12" GATE VALVE AND VALVE BOX, AS PER PLAN	12" CUTTING-IN SLEEVE, VALVE AND VALVE BOX, AS PER PLAN	20" STEEL PIPE ENCASEMENT, BORED OR JACKED, CWD	WATER WORK, MISC.: POTHOLING	WATER WORK, MISC.: CHLORINATION PIT	36" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, BOLTLESS RESTRAINED JOINTS AND FITTINGS	36" WATER MAIN DIP CLASS 52 BOLTLESS RESTRAINED JOINTS AND FITTINGS, CWD STANDARDS	56" STEEL PIPE ENCASEMENT, BORED OR JACKED, CWD	WATER WORK, MISC.: 4" DRAIN ASSEMBLY										
								FT	FT	FT	FT	EACH	EACH	FT	EACH	EACH	FT	FT	FT	EACH										
		74+90.96	RT	TO	75+61.88	LT	CLP_I077		228																					
		74+73.26	LT	TO	74+90.93	RT	CLP_I077		300																					
		74+83.96	RT				CLP_I077				1																			
		75+51.58	LT				CLP_I077				1																			
		74+71.40	RT	TO	74+72.89	LT	CLP_I077							120																
		74+90.96	RT	TO									1																	
		75+61.88	LT										1																	
		74+71.61	RT												1															
		74+72.89	LT												1															
		74+80.18	LT												1															
		75+07.27	LT												1															
		75+18.52	LT											1	1															
		75+46.43	LT													1														
		74+83.96	RT									1																		
		75+51.58	LT									1																		
		80+75.51	RT	TO	80+78.28	RT	CLP_I077	10																						
		80+79.94	RT	TO	80+82.65	RT	CLP_I077	10																						
		80+83.62	RT	TO	80+86.33	RT	CLP_I077	10																						
		179+73.92	LT	TO	180+01.45	LT	CLP_I077	132																						
		111+35.51	LT	TO	111+50.08	RT	CLP_I077			281																				
		111+35.51	LT	TO	111+50.08	RT	CLP_I077																							
		111+35.51	LT													1														
		.	LT																1											
		111+50.26	RT																1											
		110+96.96	LT	TO	110+97.49	RT	CLP_I077													120										
		111+14.68	LT												1															
		111+23.65	RT												1															
		111+35.21	LT												1															
		111+35.51	LT												1															
		111+49.95	RT												1															
		111+03.38	RT																											
TOTALS CARRIED TO GENERAL SUMMARY								162	528	281	2	2	2	121	10	2	318	2	120	1										

Preliminary Plans - For Reference Only

MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:17:42 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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CUY-77-11.41 - PART 1

WATERWORK SUBSUMMARY

DESIGN AGENCY

AECOM

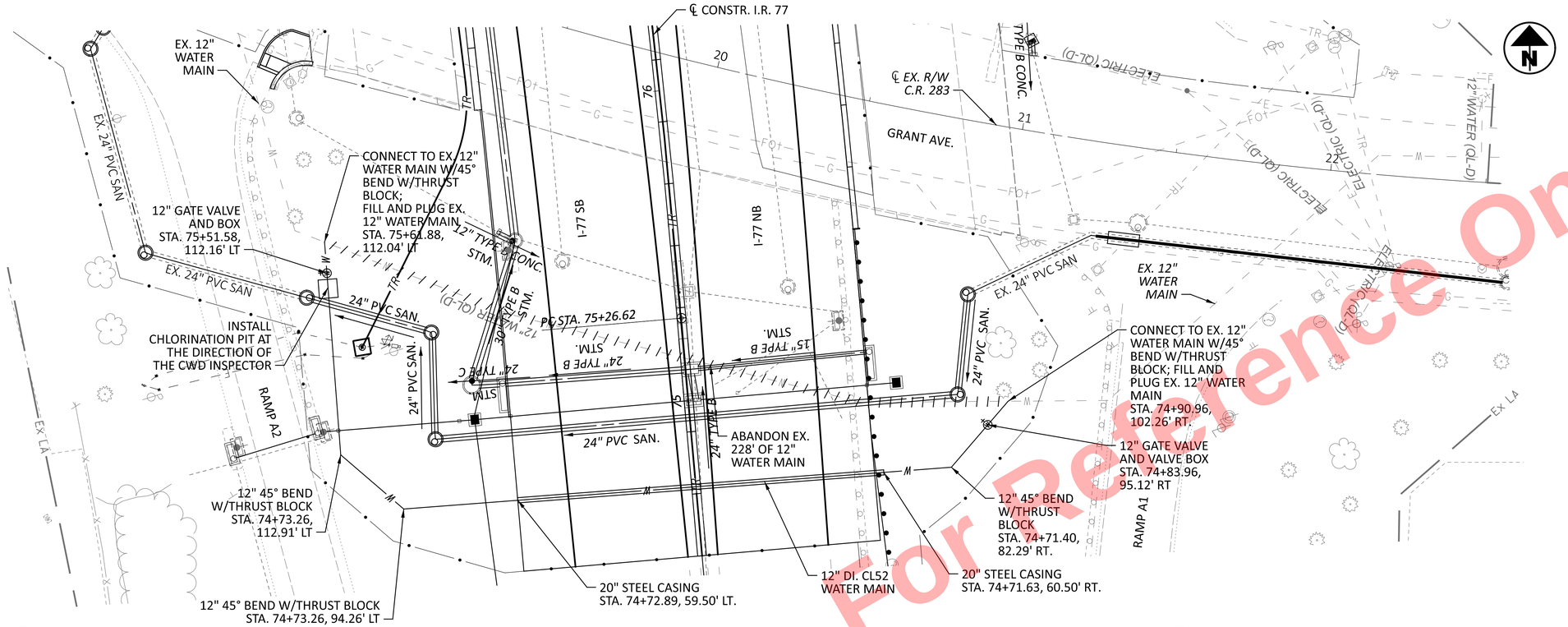
DESIGNER MAW

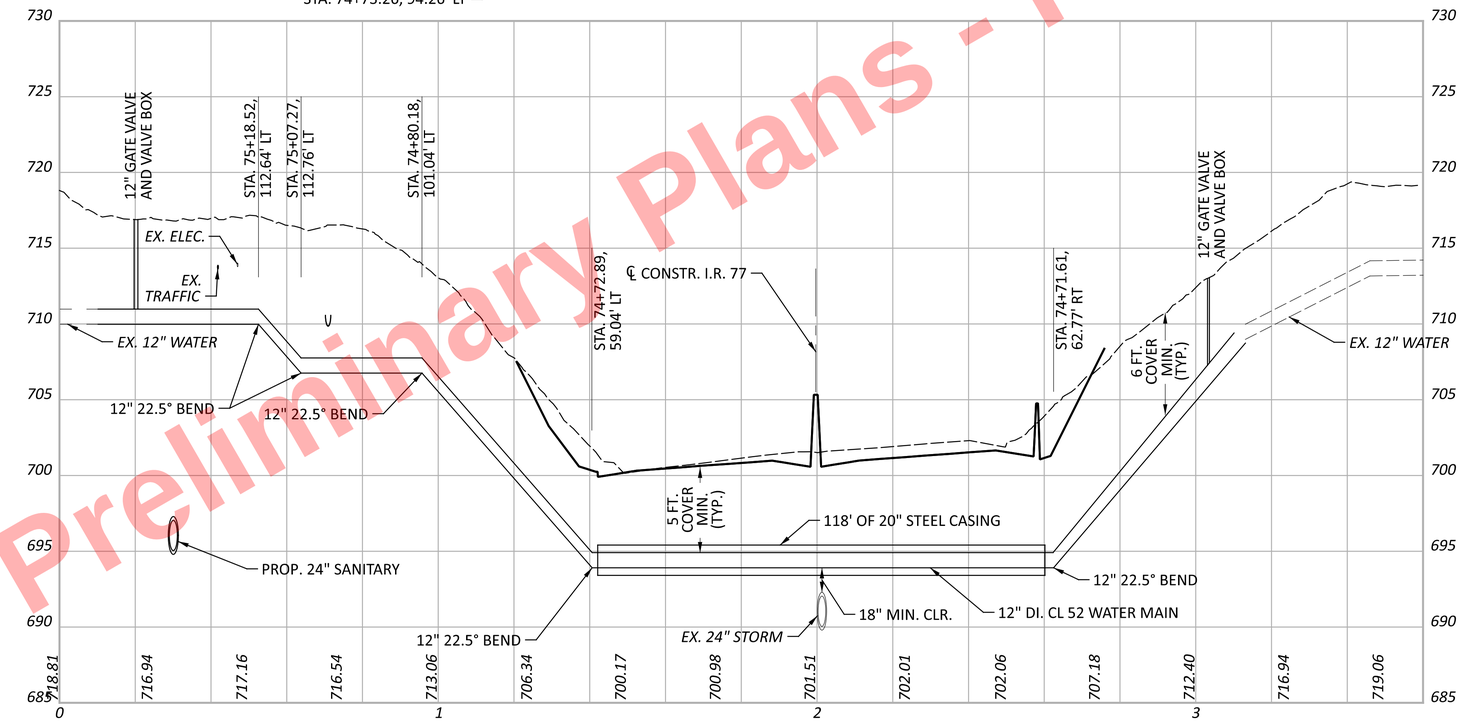
REVIEWER AKM 05/01/26

PROJECT ID 105743

SHEET P.1024 TOTAL P.1269

Preliminary Plans - Not For Reference Only





HORIZONTAL SCALE IN FEET
0 10 20 40

WATERMAIN LOWERING - NEAR GRANT AVENUE OVERPASS
PLAN AND PROFILE

DESIGN AGENCY
AECOM

DESIGNER MAW
REVIEWER AKM 05/01/26
PROJECT ID 105473
SHEET P.1025 TOTAL P.1269

CUY-77-11.41 - PART 1

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Preliminary Plans - For Reference Only

HARVARD AVE.

℄ CONSTR. I.R. 77

I-77 SB

I-77 NB

FILL AND PLUG EX. 36" WATER MAIN

EX. 36" WATER

EX. ELEC. (APPROX. LOCATION)

102" COMB.

111

112

12" SAN

36" DUCTILE IRON WATERMAIN (SEE NOTE 1)

DRAIN VAULT

4" DRAIN ASSEMBLY

36" 45° BEND W/THRUST BLOCK STA. 110+97.70, 106.21' RT.

56" STEEL CASING STA. 110+97.49, 61.50' RT.

48" COMB.

12" STM.

ELECTRIC

RAMP B1

RAMP B2

EX. WAT VALVE

EX. WATER MAIN VALVE ASSEMBLY

CONNECT TO EX. 36" WATER MAIN WITH ANCHOR (SEE NOTE 2) *STA. 111+50.26, 123.59' RT.*

36" 45° BEND W/THRUST BLOCK *STA. 111+50.26, 123.59' RT.*

EX. WATER MAIN VALVE ASSEMBLY

CONNECT TO EX. 36" WATER MAIN WITH ANCHOR (SEE NOTE 2) STA. 111+35.51, 101.72' LT.

INSTALL CHLORINATION PIT AT THE DIRECTION OF THE CWD INSPECTOR

36" 45° BEND W/THRUST BLOCK STA. 111+35.51, 101.72' LT.

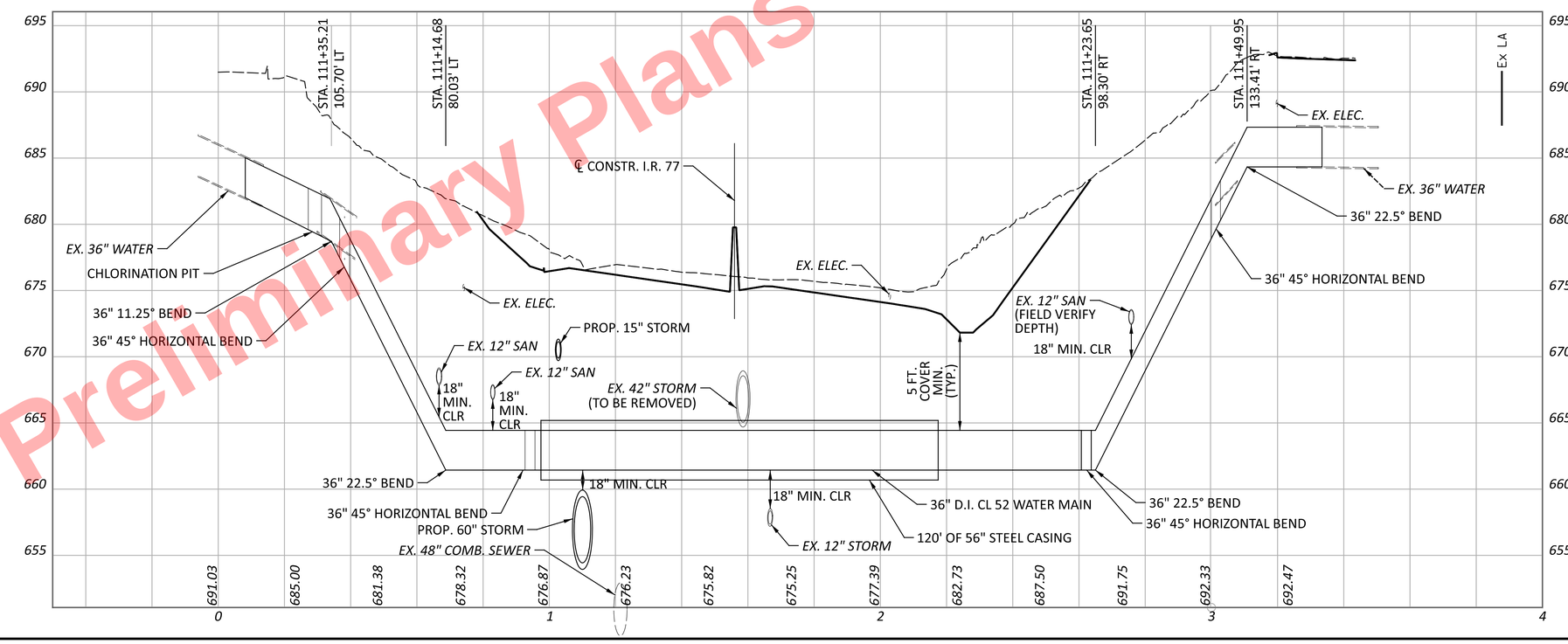
36" 45° BEND W/THRUST BLOCK STA. 110+96.94, 61.79' LT.

56" STEEL CASING STA. 110+96.96, 58.50' LT.

NOTES:

1. ALL JOINTS ALONG THE NEW WATER SHALL BE RESTRAINED JOINTS IN ADDITION TO THRUST BLOCKS IN ACCORDANCE WITH CWD DETAILS.
2. CONNECT NEW 36-INCH DUCTILE IRON WATER MAIN TO EXISTING 36-INCH STEEL WATER MAIN USING A CWD-APPROVED RESTRAINED MECHANICAL TRANSITION COUPLING. FINAL CONNECTION METHOD SUBJECT TO CWD APPROVAL BASED ON VERIFIED EXISTING PIPE CONDITION AND DIMENSION BY THE CONTRACTOR.

HORIZONTAL SCALE IN FEET
0 10 20 40



WATERMAIN LOWERING - NEAR HARVARD AVENUE OVERPASS
PLAN AND PROFILE

DESIGN AGENCY
AECOM

DESIGNER MAW
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.1026 TOTAL P.1269

CUY-77-11.41 - PART 1

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REF NO.	SHEET NO.	LOCATION	STATION TO STATION				621 RPM, WHITE EACH	621 RPM, WHITE / RED EACH	621 RPM, YELLOW / RED EACH	621 RAISED PAVEMENT MARKER REMOVED EACH	646 STOP LINE FT	646 CROSSWALK LINE, 12" FT	646 CROSSWALK LINE, 24" FT	646 TRANSVERSE/DIAGONAL LINE, WHITE FT	646 CHEVRON MARKING FT	646 LANE ARROW EACH	646 WRONG WAY ARROW EACH	646 DOTTED LINE, 4", WHITE (2' LINE, 4' GAP) FT	646 DOTTED LINE, 6", YELLOW (3' DASH, 9' GAP) FT	646 ISLAND MARKING, WHITE SQ FT	807 WET REFLECTIVE TRAFFIC PAINT, LANE LINE, 6" MILE	807 WET REFLECTIVE TRAFFIC PAINT, EDGE LINE, 6", WHITE MILE	807 WET REFLECTIVE TRAFFIC PAINT, EDGE LINE, 6", YELLOW MILE	807 WET REFLECTIVE TRAFFIC PAINT, CHANNELIZING LINE, 12" FT	807 WET REFLECTIVE TRAFFIC PAINT, DOTTED LINE, 12", WHITE (3' DASH, 9' GAP) FT	807 WET REFLECTIVE TRAFFIC PAINT, DOTTED LINE, 6", WHITE (3' DASH, 9' GAP) FT	850 GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) MILE	850 GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) FT	850 GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT) FT
A-1	P.1048	RAMP A3	300+56	RT.	TO											1														
A-2	P.1048	RAMP A3	300+83	LT.												1														
A-3	P.1048	RAMP A3	300+95	RT.												1														
A-4	P.1048	RAMP A3	301+02	LT.												1														
A-5	P.1051	RAMP B1	108+28	LT.												1														
A-6	P.1051	RAMP B1	108+28	LT.												1														
A-7	P.1051	RAMP B1	108+28	RT.												1														
A-8	P.1051	RAMP B1	108+75	LT.												1														
A-9	P.1051	RAMP B1	108+75	LT.												1														
A-10	P.1051	RAMP B1	108+75	RT.												1														
A-11	P.1051	RAMP B1	109+23	LT.												1														
A-12	P.1051	RAMP B1	109+23	LT.												1														
A-13	P.1051	RAMP B1	109+23	RT.												1														
A-14	P.1051	RAMP B3	300+92	LT.												1														
A-15	P.1051	RAMP B3	300+92	RT.												1														
A-16	P.1051	RAMP B3	300+92	RT.												1														
A-17	P.1051	RAMP B3	301+67	LT.												1														
A-18	P.1051	RAMP B3	301+67	RT.												1														
A-19	P.1051	RAMP B3	301+67	RT.												1														
A-20	P.1051	RAMP B3	302+42	LT.												1														
A-21	P.1051	RAMP B3	302+42	RT.												1														
A-22	P.1051	RAMP B3	302+42	RT.												1														
A-23	P.1054	RAMP C2	200+96	RT.												1														
A-24	P.1054	RAMP C2	201+12	LT.												1														
A-25	P.1054	RAMP C2	201+62	RT.												1														
A-26	P.1054	RAMP C2	201+62	CL.												1														
A-27	P.1054	RAMP C2	202+32	RT.												1														
A-28	P.1054	RAMP C2	202+32	CL.												1														
A-29	P.1058	RAMP E1	112+50	CL.												1														
A-29A	P.1058	RAMP E1	112+50	LT.												1														
A-30	P.1058	RAMP E1	113+10	LT.												1														
A-30A	P.1058	RAMP E1	113+10	CL.												1														
CH-1	P.1048	RAMP A3	301+12	RT.		300+95	LT.		3		3													20				20	
CH-1A	P.1048	RAMP A3	301+12	RT.		300+95	RT.		3		3													20				20	
CH-2	P.1048	RAMP A4	405+70	LT.		406+00	LT.		3		3													30				30	
CH-3	P.1049	I.R. 77	81+05	RT.		85+00	RT.		10		10													400				400	
CH-4	P.1049	I.R. 77	86+50	LT.		84+00	LT.		6		6													250				250	
CH-5	P.1049	RAMP A3	309+50	RT.		307+00	RT.		6		6													250				250	
CH-6	P.1049	RAMP A4	406+00	LT.		409+70	LT.		9		9													371				371	
CH-7	P.1050	I.R. 77	107+00	LT.		104+25	LT.		7		7													278				278	
CH-8	P.1050	RAMP B2	201+00	RT.		198+18	RT.		7		7													282				282	
CH-9	P.1050	RAMP B1	101+92	LT.		104+35	LT.		6		6													247				247	
CH-10	P.1050	I.R. 77	104+20	RT.		107+00	RT.		6		6													246				246	
CH-11	P.1051	I.R. 77	117+80	RT.		120+00	RT.		5		5													214				214	
CH-12	P.1051	I.R. 77	120+00	LT.		119+60	LT.		3		3													43				43	
CH-13	P.1051	RAMP B1	108+20	LT.		109+53	LT.		3		3													133				133	
CH-14	P.1051	RAMP B1	108+20	LT.		109+53	LT.		3		3													133				133	
CH-15	P.1051	RAMP B4	405+20	LT.		407+50	LT.		6		6													231				231	
CH-16	P.1051	RAMP B2	202+60	RT.		201+00	RT.		4		4													164				164	
CH-17	P.1051	RAMP B3	302+50	RT.		300+63	RT.		5		5													187				187	
CH-18	P.1051	RAMP B3	302+50	RT.		300+63	RT.		5		5													186				186	
CH-19	P.1051	RAMP B3	308+00	RT.		307+60	RT.		3		3													38				38	
CH-20	P.1051	I.R. 77	108+65	LT.		107+00	LT.		4		4													167				167	
CH-20A	P.1052	I.R. 77	121+60	LT.		120+00	LT.		4		4													160				160	
CH-21	P.1052	I.R. 77	120+00	RT.		123+00	RT.		7		7													297				297	
CH-22	P.1052	I.R. 77	129+62	RT.		132+90	RT.		8		8													327				327	
CH-23	P.1052	RAMP B3	309+67	RT.		308+00	RT.		4		4													168				168	
TOTALS CARRIED TO GENERAL SUMMARY								130		130						32							4842				4842	

For Reference Only
Preliminary Plans - For

PAVEMENT MARKING SUBSUMMARY

CUY-77-11.41 - PART 1

MODEL: TS100 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:43:17 PM RETTIG, JACOB
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Traffic\Sheets\105743_TS100.dgn

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 04-22-26
PROJECT ID 105107
SHEET P.1027 TOTAL 1269

PAVEMENT MARKING SUBSUMMARY

REF NO.	SHEET NO.	LOCATION	STATION TO STATION					621 RPM, WHITE EACH	621 RPM, WHITE / RED EACH	621 RPM, YELLOW / RED EACH	621 RAISED PAVEMENT MARKER REMOVED EACH	646 STOP LINE FT	646 CROSSWALK LINE, 12" FT	646 CROSSWALK LINE, 24" FT	646 TRANSVERSE/DIAGONAL LINE, WHITE FT	646 CHEVRON MARKING FT	646 LANE ARROW EACH	646 WRONG WAY ARROW EACH	646 DOTTED LINE, 4", WHITE (2' LINE, 4' GAP) FT	646 DOTTED LINE, 6", YELLOW (3' DASH, 9' GAP) FT	646 ISLAND MARKING, WHITE SQ FT	807 WET REFLECTIVE TRAFFIC PAINT, LANE LINE, 6" MILE	807 WET REFLECTIVE TRAFFIC PAINT, EDGE LINE, 6", WHITE MILE	807 WET REFLECTIVE TRAFFIC PAINT, EDGE LINE, 6", YELLOW MILE	807 WET REFLECTIVE TRAFFIC PAINT, CHANNELIZING LINE, 12" FT	807 WET REFLECTIVE TRAFFIC PAINT, DOTTED LINE, 12", WHITE (3' DASH, 9' GAP) FT	807 WET REFLECTIVE TRAFFIC PAINT, DOTTED LINE, 6", WHITE (3' DASH, 9' GAP) FT	850 GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) MILE	850 GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) FT	850 GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT) FT
CH-24	P.1052	RAMP B4	407+50	LT.	TO	410+29	LT.		7		7															280					280
CH-25	P.1052	RAMP C1	101+56	LT.		104+80	LT.		8		8															327					327
CH-25A	P.1052	I.R. 77	128+00	RT.		129+62	RT.		4		4															160					160
CH-26	P.1053	RAMP C1	111+20	LT.		112+11	LT.		3		3															92					92
CH-27	P.1054	I.R. 77	146+40	RT.		150+75	RT.		11		11															432					432
CH-28	P.1054	I.R. 77	153+30	LT.		150+65	LT.		7		7															263					263
CH-29	P.1054	RAMP C2	202+40	RT.		200+88	LT.		4		4															156					156
CH-30	P.1054	RAMP C2	206+92	RT.		204+30	RT.		7		7															264					264
CH-31	P.1054	RAMP C3	304+20	LT.		308+50	LT.		11		11															432					432
CH-32	P.1057	I.R. 77	192+15	LT.		187+75	LT.		11		11															445					445
CH-33	P.1057	I.R. 77	188+70	RT.		191+05	RT.		6		6															235					235
CH-34	P.1057	RAMP D1	101+18	LT.		103+50	LT.		6		6															235					235
CH-35	P.1057	RAMP D2	202+85	RT.		198+40	RT.		11		11															447					447
CH-36	P.1058	I.R. 77	201+35	RT.		203+85	RT.		6		6															247					247
CH-37	P.1058	RAMP E1	103+24	LT.		105+70	LT.		6		6															248					248
CH-38	P.1058	RAMP D2	112+20	RT.		113+27	RT.		3		3															107					107
CH-39	P.1059	I.R. 77	220+85	LT.		214+25	LT.		16		16															655					655
CH-40	P.1059	I.R. 77	216+25	RT.		219+10	RT.		7		7															285					285
CH-41	P.1059	RAMP J1	107+28	LT.		110+14	LT.		7		7															287					287
CH-42	P.1059	RAMP J5	512+75	RT.		518+32	RT.		14		14															565					565
CHD-1	P.1052	I.R. 77	123+00	RT.		128+00	RT.														811						495				495
CLD-1	P.1054	PR. BIKEWAY	13+70	LT.		5+60	LT.														811										
CLD-2	P.1055	PR. BIKEWAY	26+62	CL.		13+70	CL.														1292										
CLD-3	P.1055	PR. BIKEWAY	20+12	CL.		26+23	CL.														611										
CLD-4	P.1056	PR. BIKEWAY	30+85	CL.		26+62	CL.														371										
CLD-5	P.1056	PR. BIKEWAY	39+66	CL.		31+45	CL.														822										
CLD-6	P.1057	PR. BIKEWAY	52+69	CL.		39+66	CL.														1303										
CV-1	P.1049	RAMP A3	309+12	RT.		307+11	RT.										104														
CV-2	P.1050	RAMP B1	102+18	LT.		104+20	LT.										95														
CV-3	P.1051	I.R. 77	119+93	LT.		119+82	LT.										28														
CV-4	P.1052	RAMP B3	309+42	RT.		308+39	RT.										66														
CV-5	P.1052	RAMP C1	101+83	LT.		104+72	LT.										158														
CV-6	P.1054	RAMP C2	206+48	RT.		204+45	RT										105														
CV-7	P.1057	RAMP D1	101+45	LT.		103+47	LT.										110														
CV-8	P.1058	RAMP E1	103+58	LT.		105+60	LT.										105														
CV-9	P.1059	RAMP J1	107+58	LT.		110+10	LT.										110														
DW-1	P.1051	RAMP E1	200+89	LT.		200+10	LT.													88											
DW-2	P.1058	RAMP E1	8+41	LT.		9+50	LT.													141											
IW-1	P.1048	RAMP A3	300+98	CL.		300+29	CL.															1940									
LL-1	P.1048	I.R. 77	74+50	RT.		81+00	RT.	5			5												0.12						0.12		
LL-2	P.1048	I.R. 77	74+50	RT.		81+00	RT.	5			5												0.12						0.12		
LL-3	P.1048	I.R. 77	81+00	LT.		74+50	LT.	5			5												0.12						0.12		
LL-4	P.1048	I.R. 77	81+00	LT.		74+50	LT.	5			5												0.12						0.12		
LL-5	P.1049	I.R. 77	81+00	RT.		94+00	RT.	11			11												0.25						0.25		
LL-6	P.1049	I.R. 77	81+00	RT.		94+00	RT.	11			11												0.25						0.25		
LL-7	P.1049	I.R. 77	94+00	LT.		81+00	LT.	11			11												0.24						0.24		
LL-8	P.1049	I.R. 77	94+00	LT.		81+00	LT.	11			11												0.24						0.24		
LL-9	P.1050	I.R. 77	107+00	LT.		94+00	LT.	11			11												0.25						0.25		
LL-10	P.1050	I.R. 77	107+00	LT.		94+00	LT.	11			11												0.25						0.25		
LL-11	P.1050	I.R. 77	94+00	RT.		107+00	RT.	11			11												0.25						0.25		
LL-12	P.1050	I.R. 77	94+00	RT.		107+00	RT.	11			11												0.25						0.25		
TOTALS CARRIED TO GENERAL SUMMARY								108	155		263						881			229	5210	1940	2.46			6162	495		2.46		6657

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1
MODEL: TS101 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:43:18 PM RETTIG, JACOB
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Traffic\Sheets\105743_TS100.dgn

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 04-22-26
PROJECT ID 105743
SHEET P.1028 TOTAL 1269

PAVEMENT MARKING SUBSUMMARY

REF NO.	SHEET NO.	LOCATION	STATION TO STATION					621 RPM, WHITE EACH	621 RPM, WHITE / RED EACH	621 RPM, YELLOW / RED EACH	621 RAISED PAVEMENT MARKER REMOVED EACH	646 STOP LINE FT	646 CROSSWALK LINE, 12" FT	646 CROSSWALK LINE, 24" FT	646 TRANSVERSE/DIAGONAL LINE, WHITE FT	646 CHEVRON MARKING FT	646 LANE ARROW EACH	646 WRONG WAY ARROW EACH	646 DOTTED LINE, 4", WHITE (2' LINE, 4' GAP) FT	646 DOTTED LINE, 6", YELLOW (3' DASH, 9' GAP) FT	646 ISLAND MARKING, WHITE SQ FT	807 WET REFLECTIVE TRAFFIC PAINT, LANE LINE, 6" MILE	807 WET REFLECTIVE TRAFFIC PAINT, EDGE LINE, 6", WHITE MILE	807 WET REFLECTIVE TRAFFIC PAINT, EDGE LINE, 6", YELLOW MILE	807 WET REFLECTIVE TRAFFIC PAINT, CHANNELIZING LINE, 12" FT	807 WET REFLECTIVE TRAFFIC PAINT, DOTTED LINE, 12", WHITE (3' DASH, 9' GAP) FT	807 WET REFLECTIVE TRAFFIC PAINT, DOTTED LINE, 6", WHITE (3' DASH, 9' GAP) FT	850 GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) MILE	850 GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) FT	850 GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT) FT
LL-13	P.1051	I.R. 77	120+00	LT.	TO	107+00	LT.	11			11											0.25						0.25		
LL-14	P.1051	I.R. 77	120+00	LT.		107+00	LT.	11			11											0.25						0.25		
LL-15	P.1051	I.R. 77	107+00	RT.		120+00	RT.	11			11											0.24						0.24		
LL-16	P.1051	I.R. 77	107+00	RT.		120+00	RT.	11			11											0.25						0.25		
LL-17	P.1052	I.R. 77	133+00	LT.		120+00	LT.	11			11											0.25						0.25		
LL-18	P.1052	I.R. 77	133+00	LT.		120+00	LT.	11			11											0.25						0.25		
LL-19	P.1052	I.R. 77	120+00	RT.		133+00	RT.	11			11											0.24						0.24		
LL-20	P.1052	I.R. 77	120+00	RT.		133+00	RT.	11			11											0.25						0.25		
LL-21	P.1053	I.R. 77	146+00	LT.		133+00	LT.	11			11											0.25						0.25		
LL-22	P.1053	I.R. 77	146+00	LT.		133+00	LT.	11			11											0.25						0.25		
LL-23	P.1053	I.R. 77	133+00	RT.		146+00	RT.	11			11											0.25						0.25		
LL-24	P.1053	I.R. 77	133+00	RT.		146+00	RT.	11			11											0.25						0.25		
LL-25	P.1054	I.R. 77	146+00	RT.		159+00	RT.	11			11											0.25						0.25		
LL-26	P.1054	I.R. 77	146+00	RT.		159+00	RT.	11			11											0.25						0.25		
LL-27	P.1054	I.R. 77	159+00	LT.		146+00	LT.	11			11											0.25						0.25		
LL-28	P.1054	I.R. 77	159+00	LT.		146+00	LT.	11			11											0.25						0.25		
LL-29	P.1055	I.R. 77	172+00	LT.		159+00	LT.	11			11											0.25						0.25		
LL-30	P.1055	I.R. 77	172+00	LT.		159+00	LT.	11			11											0.25						0.25		
LL-31	P.1055	I.R. 77	159+00	RT.		172+00	RT.	11			11											0.25						0.25		
LL-32	P.1055	I.R. 77	159+00	RT.		172+00	RT.	11			11											0.25						0.25		
LL-33	P.1056	I.R. 77	185+00	LT.		172+00	LT.	11			11											0.25						0.25		
LL-34	P.1055	I.R. 77	185+00	LT.		172+00	LT.	11			11											0.24						0.24		
LL-35	P.1055	I.R. 77	172+00	RT.		185+00	RT.	11			11											0.25						0.25		
LL-36	P.1055	I.R. 77	172+00	RT.		185+00	RT.	11			11											0.25						0.25		
LL-37	P.1057	I.R. 77	185+00	RT.		198+50	RT.	11			11											0.25						0.25		
LL-38	P.1057	I.R. 77	185+00	RT.		198+50	RT.	11			11											0.25						0.25		
LL-39	P.1057	I.R. 77	198+50	LT.		185+00	LT.	11			11											0.26						0.26		
LL-40	P.1057	I.R. 77	198+50	LT.		185+00	LT.	11			11											0.26						0.26		
LL-41	P.1058	I.R. 77	198+50	RT.		211+00	RT.	11			11											0.24						0.24		
LL-42	P.1058	I.R. 77	198+50	RT.		211+00	RT.	11			11											0.24						0.24		
LL-43	P.1058	I.R. 77	211+00	LT.		198+50	LT.	11			11											0.24						0.24		
LL-44	P.1058	I.R. 77	211+00	LT.		198+50	LT.	11			11											0.24						0.24		
LL-45	P.1059	I.R. 77	211+00	RT.		224+50	RT.	11			11											0.26						0.26		
LL-46	P.1059	I.R. 77	224+50	LT.		211+00	LT.	11			11											0.25						0.25		
LL-47	P.1059	I.R. 77	224+50	LT.		211+00	LT.	11			11											0.26						0.26		
LL-48	P.1059	I.R. 77	211+00	LT.		224+50	LT.	11			11											0.26						0.26		
LL-49	P.1060	I.R. 77	229+00	LT.		224+50	LT.	4			4											0.09						0.09		
LL-50	P.1060	I.R. 77	229+00	LT.		224+50	LT.	4			4											0.09						0.09		
LL-51	P.1060	I.R. 77	224+50	RT.		228+00	RT.	3			3											0.07						0.07		
LL-52	P.1060	I.R. 77	224+50	RT.		228+00	RT.	3			3											0.07						0.07		
LLD-1	P.1049	I.R. 77	89+37	LT.		86+50	LT.		5		5																280		280	
LLD-2	P.1049	I.R. 77	85+00	RT.		94+00	RT.		15		15																912		912	
LLD-3	P.1049	I.R. 77	94+00	LT.		93+55	LT.		1		1																45		45	
LLD-4	P.1050	I.R. 77	94+00	RT.		96+05	RT.		3		3																208		208	
LLD-5	P.1050	I.R. 77	104+25	LT.		94+00	LT.		17		17																1023		1023	
LLD-6	P.1051	I.R. 77	101+85	RT.		104+20	RT.		4		4																235		235	
LLD-7	P.1052	I.R. 77	127+07	LT.		121+60	LT.		9		9																555		555	
LLD-8	P.1054	I.R. 77	157+35	LT.		153+30	LT.		7		7																403		403	
LLD-9	P.1054	I.R. 77	150+75	RT.		159+00	RT.		14		14																830		830	
LLD-10	P.1055	I.R. 77	159+00	RT.		161+70	RT.		5		5																270		270	
LLD-11	P.1056	I.R. 77	185+00	LT.		176+80	LT.		13		13																808		808	
LLD-12	P.1056	I.R. 77	183+00	RT.		185+00	RT.		3		3																202		202	
LLD-13	P.1057	I.R. 77	185+00	RT.		188+70	RT.		6		6																368		368	
LLD-14	P.1057	I.R. 77	187+75	RT.		185+00	RT.		5		5																275		275	
LLD-15	P.1057	I.R. 77	197+12	RT.		198+50	RT.		2		2																138		138	
TOTALS CARRIED TO GENERAL SUMMARY								410	109		519											9.30					6552	9.30	6552	

Preliminary Plans - For Reference Only

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 04-22-26
PROJECT ID 105743
SHEET P.1029 TOTAL 1269

CUY-77-11.41 - PART 1

MODEL: TS102 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:43:19 PM RETTIG, JACOB
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Traffic\Sheets\105743_TS100.dgn

PAVEMENT MARKING SUBSUMMARY

REF NO.	SHEET NO.	LOCATION	STATION TO STATION					621 RPM, WHITE EACH	621 RPM, WHITE / RED EACH	621 RPM, YELLOW / RED EACH	621 RAISED PAVEMENT MARKER REMOVED EACH	646 STOP LINE FT	646 CROSSWALK LINE, 12" FT	646 CROSSWALK LINE, 24" FT	646 TRANSVERSE/DIAGONAL LINE, WHITE FT	646 CHEVRON MARKING FT	646 LANE ARROW EACH	646 WRONG WAY ARROW EACH	646 DOTTED LINE, 4", WHITE (2' LINE, 4' GAP) FT	646 DOTTED LINE, 6", YELLOW (3' DASH, 9' GAP) FT	646 ISLAND MARKING, WHITE SQ FT	807 WET REFLECTIVE TRAFFIC PAINT, LANE LINE, 6" MILE	807 WET REFLECTIVE TRAFFIC PAINT, EDGE LINE, 6", WHITE MILE	807 WET REFLECTIVE TRAFFIC PAINT, EDGE LINE, 6", YELLOW MILE	807 WET REFLECTIVE TRAFFIC PAINT, CHANNELIZING LINE, 12" FT	807 WET REFLECTIVE TRAFFIC PAINT, DOTTED LINE, 12", WHITE (3' DASH, 9' GAP) FT	807 WET REFLECTIVE TRAFFIC PAINT, DOTTED LINE, 6", WHITE (3' DASH, 9' GAP) FT	850 GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) MILE	850 GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) FT	850 GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT) FT
LLD-16	P.1058	I.R. 77	198+50	RT.	TO	201+35	RT.		5		5																	287		287	
LLD-17	P.1058	I.R. 77	211+00	LT.		201+50	LT.		16		16																	950		950	
LLD-18	P.1058	I.R. 77	208+40	RT.		211+00	RT.		4		4																	260		260	
LLD-19	P.1059	I.R. 77	211+00	RT.		216+25	RT.		9		9																	528		528	
LLD-20	P.1059	I.R. 77	214+25	LT.		211+00	LT.		5		5																	325		325	
SL-1	P.1048	RAMP A3	300+48	RT,		300+45	RT,					13																			
SL-2	P.1048	RAMP A3	300+83	LT.		300+73	LT.					19																			
SL-3	P.1051	RAMP B1	109+53	RT.		109+53	LT.					43																			
SL-4	P.1051	RAMP B3	300+62	RT.		300+63	LT.					38																			
SL-5	P.1053	RAMP C1	112+11	RT.		112+11	LT.					22																			
SL-6	P.1054	RAMP C2	201+10	LT.		200+77	RT.					40																			
SL-7	P.1054	PR. BIKEWAY	5+60	CL.		5+60	LT.					5																			
SL-8	P.1055	PR. BIKEWAY	20+12	CL.		20+12	RT.					10																			
SL-9	P.1055	PR. BIKEWAY	26+23	CL.		26+23	RT.					5																			
SL-10	P.1056	PR. BIKEWAY	30+33	RT.		30+33	RT.					6																			
SL-11	P.1056	PR. BIKEWAY	30+51	LT.		30+67	LT.					16																			
SL-12	P.1056	PR. BIKEWAY	31+45	RT.		31+45	RT.					7																			
SL-13	P.1057	RAMP D1	30+51	LT.		30+67	LT.					16																			
SL-14	P.1057	PR. BIKEWAY	52+69	CL.		52+69	RT.					7																			
SL-15	P.1058	RAMP E1	113+17	RT.		113+37	LT.					16																			
SL-16	P.1058	RAMP E1	112+56	RT.		112+69	RT.					7																			
WA-1	P.1048	RAMP A3	302+00	RT.														1													
WA-2	P.1049	RAMP A3	305+00	RT.														1													
WA-3	P.1050	RAMP B1	104+50	LT.														1													
WA-4	P.1051	RAMP B1	107+00	LT.														1													
WA-5	P.1051	RAMP B3	303+50	RT.														1													
WA-6	P.1051	RAMP B3	306+50	RT.														1													
WA-7	P.1053	RAMP C1	107+50	LT.														1													
WA-8	P.1053	RAMP C1	110+50	LT.														1													
WA-9	P.1054	RAMP C2	203+00	RT.														1													
WA-10	P.1054	RAMP C2	205+00	RT.														1													
WA-11	P.1057	RAMP D1	106+11	LT.														1													
WA-12	P.1058	RAMP E1	107+50	LT.														1													
WA-13	P.1058	RAMP E1	110+46	LT.														1													
WE-1	P.1048	I.R. 77	74+50	RT.		81+00	RT.																	0.12					0.12	
WE-2	P.1048	I.R. 77	81+00	LT.		74+50	LT.																	0.12					0.12	
WE-3	P.1048	RAMP A3	300+95	RT.		300+48	RT.																	0.01					0.01	
WE-4	P.1048	RAMP A3	304+00	LT.		300+83	CL.																	0.06					0.06	
WE-5	P.1048	RAMP A4	400+39	RT.		406+00	CL.																	0.11					0.11	
WE-6	P.1049	I.R. 77	84+00	RT.		81+00	RT.																	0.06					0.06	
WE-7	P.1049	RAMP A3	312+30	RT.		304+00	CL.																	0.16					0.16	
WE-7A	P.1049	I.R. 77	94+00	LT.		89+37	LT.																	0.08					0.08	
WE-8	P.1049	RAMP A4	406+00	LT.		409+70	LT.																	0.24					0.24	
WE-8A	P.1049	I.R. 77	85+00	RT.		94+00	RT.																	0.17					0.17	
WE-9	P.1049	I.R. 77	81+00	LT.		81+05	LT.																	0.01					0.01	
WE-10	P.1050	I.R. 77	94+00	RT.		101+85	RT.																	0.15					0.15	
WE-10-A	P.1050	RAMP B1	99+57	LT.		105+00	CL.																	0.1					0.1	
WE-11	P.1050	I.R. 77	104+25	LT.		94+00	LT.																	0.19					0.19	
WE-11A	P.1050	RAMP B2	201+00	CL.		198+18	CL.																	0.05					0.05	
WE-12	P.1050	I.R. 77	106+70	RT.		107+00	RT.																	0.01					0.01	
TOTALS CARRIED TO GENERAL SUMMARY									39		39	270						13						1.64			2350	1.64	2350	

For Reference Only
Preliminary Plans - For

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 04-22-26
PROJECT ID 105743
SHEET P.1030 TOTAL 1269

CUY-77-11.41 - PART 1

MODEL: TS103 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:43:19 PM RETTIG, JACOB
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Traffic\Sheets\105743_TS100.dgn

PAVEMENT MARKING SUBSUMMARY

REF NO.	SHEET NO.	LOCATION	STATION TO STATION					621 RPM, WHITE EACH	621 RPM, WHITE / RED EACH	621 RPM, YELLOW / RED EACH	621 RAISED PAVEMENT MARKER REMOVED EACH	646 STOP LINE FT	646 CROSSWALK LINE, 12" FT	646 CROSSWALK LINE, 24" FT	646 TRANSVERSE/DIAGONAL LINE, WHITE FT	646 CHEVRON MARKING FT	646 LANE ARROW EACH	646 WRONG WAY ARROW EACH	646 DOTTED LINE, 4", WHITE (2' LINE, 4' GAP) FT	646 DOTTED LINE, 6", YELLOW (3' DASH, 9' GAP) FT	646 ISLAND MARKING, WHITE SQ FT	807 WET REFLECTIVE TRAFFIC PAINT, LANE LINE, 6" MILE	807 WET REFLECTIVE TRAFFIC PAINT, EDGE LINE, 6", WHITE MILE	807 WET REFLECTIVE TRAFFIC PAINT, EDGE LINE, 6", YELLOW MILE	807 WET REFLECTIVE TRAFFIC PAINT, CHANNELIZING LINE, 12" FT	807 WET REFLECTIVE TRAFFIC PAINT, DOTTED LINE, 12", WHITE (3' DASH, 9' GAP) FT	807 WET REFLECTIVE TRAFFIC PAINT, DOTTED LINE, 6", WHITE (3' DASH, 9' GAP) FT	850 GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) MILE	850 GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) FT	850 GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT) FT
WE-12A	P.1051	I.R. 77	107+00	RT.	TO	117+80	RT.																0.2						0.2		
WE-13	P.1051	I.R. 77	120+00	LT.		108+65	LT.																0.21						0.21		
WE-14	P.1051	RAMP B1	105+00	CL.		109+53	RT.																0.09						0.09		
WE-15	P.1051	RAMP B4	400+50	RT.		407+50	CL.																0.13						0.13		
WE-16	P.1051	RAMP B2	205+94	LT.		201+00	LT.																0.09						0.09		
WE-17	P.1051	RAMP B3	308+00	CL.		300+63	LT.																0.14						0.14		
WE-18	P.1052	RAMP B3 / I.R. 77	308+00	CL.		133+00	LT.																0.25						0.25		
WE-19	P.1052	RAMP B4 / C1	407+50	CL.		105+00	CL.																0.24						0.24		
WE-19A	P.1052	RAMP B3	132+90	RT.		133+00	RT.																0.01						0.01		
WE-20	P.1053	I.R. 77	146+00	LT.		133+00	LT.																0.25						0.25		
WE-21	P.1053	I.R. 77	133+00	RT.		146+00	RT.																0.25						0.25		
WE-22	P.1053	RAMP C1	105+00	CL.		110+69	CL.																0.11						0.11		
WE-23	P.1053	RAMP C1	110+69	CL.		112+11	RT.																0.03						0.03		
WE-24	P.1053	RAMP C3 / I.R. 77	300+48	RT.		304+00	CL.																0.07						0.07		
WE-25	P.1054	I.R. 77	146+00	RT.		146+40	RT.																0.01						0.01		
WE-26	P.1054	I.R. 77	150+65	LT.		146+00	LT.																0.09						0.09		
WE-27	P.1054	I.R. 77 / RAMP C2	159+00	LT.		201+60	LT.																0.21						0.21		
WE-28	P.1054	RAMP C3 / I.R. 77	304+00	CL.		159+00	RT.																0.24						0.24		
WE-29	P.1055	I.R. 77	172+00	LT.		159+00	LT.																0.25						0.25		
WE-30	P.1055	I.R. 77	159+00	RT.		172+00	RT.																0.25						0.25		
WE-31	P.1056	I.R. 77	185+00	LT.		172+00	LT.																0.24						0.24		
WE-32	P.1056	I.R. 77	172+00	RT.		185+00	RT.																0.25						0.25		
WE-33	P.1057	I.R. 77	191+05	RT.		197+15	RT.																0.11						0.11		
WE-34	P.1057	RAMP D2 / I.R. 77	208+67	RT.		187+75	LT.																0.21						0.21		
WE-35	P.1057	RAMP D1	97+51	CL.		185+00	LT.																0.23						0.23		
WE-36	P.1057	I.R. 77	185+00	LT.		172+00	LT.																0.25						0.25		
WE-37	P.1058	I.R. 77	211+00	LT.		198+50	LT.																0.24						0.24		
WE-38	P.1058	RAMP E1	100+38	CL.		112+56	RT.																0.24						0.24		
WE-39	P.1058	I.R. 77	203+85	RT.		211+00	RT.																0.14						0.14		
WE-40	P.1058	RAMP E1	112+20	RT.		113+17	RT.																0.02						0.02		
WE-41	P.1059	RAMP J1	102+00	RT.		110+14	CL.																0.15						0.15		
WE-42	P.1059	I.R. 77	219+10	RT.		224+50	RT.																0.1						0.1		
WE-43	P.1059	I.R. 77	224+50	LT.		220+85	LT.																0.07						0.07		
WE-44	P.1059	RAMP J5	520+93	CL.		509+50	CL.																0.22						0.22		
WE-45	P.1060	I.R. 77	229+00	LT.		224+50	LT.																0.09						0.09		
WE-46	P.1060	I.R. 77	224+50	RT.		228+00	RT.																0.07						0.07		
WT-1	P.1048	RAMP A3	301+08	RT. & LT.		300+99	RT.								10																
XW-1	P.1048	RAMP A3	300+43	RT.		300+24	RT.						37																		
XW-2	P.1048	RAMP A3	300+88	LT.		300+65	LT.						73																		
XW-3	P.1048	RAMP A4	400+15	RT. & LT.		400+63	RT. & LT.						134																		
XW-4	P.1056	PR. BIKEWAY	30+85	RT. & LT.		30+37	RT. & LT.						86																		
XW-5	P.1058	RAMP E1	112+48	LT.		112+74	LT.						78																		
XW-6	P.1058	RAMP E1	113+23	RT. & LT.		113+57	RT. & LT.						72																		
XWL-1	P.1056	PR. BIKEWAY	31+27	RT. & LT.		31+06	RT. & LT.							41																	
YE-1	P.1048	I.R. 77	74+50	RT.		81+00	RT.																	0.12						0.12	
YE-2	P.1048	I.R. 77	81+00	LT.		74+50	LT.																	0.12						0.12	
YE-3	P.1048	RAMP A3	300+95	LT.		300+73	LT.			2	2													0.01						0.01	
YE-4	P.1048	RAMP A3	304+00	RT.		300+45	RT.			9	9													0.07						0.07	
YE-5	P.1048	RAMP A4	400+61	LT.		406+00	LT.			7	7													0.1						0.1	
YE-6	P.1049	I.R. 77	81+00	RT.		94+00	RT.																	0.25						0.25	
YE-7	P.1049	I.R. 77	94+00	LT.		81+00	LT.																	0.25						0.25	
YE-8	P.1049	RAMP A3	307+00	RT.		304+00	RT.			8	8													0.06						0.06	
TOTALS CARRIED TO GENERAL SUMMARY										26	26		480	41	10								5.75	0.98					6.73		

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1
MODEL: TS104 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:43:20 PM RETTIG, JACOB
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\3015525 - CUY-77-11.21\105743\400-Engineering\Traffic\Sheets\105743_TS100.dgn

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 04-22-26
PROJECT ID 105743
SHEET P.1031 TOTAL 1269

PAVEMENT MARKING SUBSUMMARY

REF NO.	SHEET NO.	LOCATION	STATION TO STATION					621 RPM, WHITE EACH	621 RPM, WHITE / RED EACH	621 RPM, YELLOW / RED EACH	621 RAISED PAVEMENT MARKER REMOVED EACH	646 STOP LINE FT	646 CROSSWALK LINE, 12" FT	646 CROSSWALK LINE, 24" FT	646 TRANSVERSE/DIAGONAL LINE, WHITE FT	646 CHEVRON MARKING FT	646 LANE ARROW EACH	646 WRONG WAY ARROW EACH	646 DOTTED LINE, 4", WHITE (2' LINE, 4' GAP) FT	646 DOTTED LINE, 6", YELLOW (3' DASH, 9' GAP) FT	646 ISLAND MARKING, WHITE SQ FT	807 WET REFLECTIVE TRAFFIC PAINT, LANE LINE, 6" MILE	807 WET REFLECTIVE TRAFFIC PAINT, EDGE LINE, 6", WHITE MILE	807 WET REFLECTIVE TRAFFIC PAINT, EDGE LINE, 6", YELLOW MILE	807 WET REFLECTIVE TRAFFIC PAINT, CHANNELIZING LINE, 12" FT	807 WET REFLECTIVE TRAFFIC PAINT, DOTTED LINE, 12", WHITE (3' DASH, 9' GAP) FT	807 WET REFLECTIVE TRAFFIC PAINT, DOTTED LINE, 6", WHITE (3' DASH, 9' GAP) FT	850 GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) MILE	850 GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) FT	850 GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT) FT
YE-9	P.1050	I.R. 77	94+00	RT.	TO	107+00	RT.																	0.25					0.25		
YE-10	P.1050	I.R. 77	107+00	LT.		94+00	LT.																	0.25					0.25		
YE-11	P.1050	RAMP B1	104+35	LT.		105+00	LT.			3	3													0.01					0.01		
YE-12	P.1051	I.R. 77	107+00	LT.		120+00	LT.																	0.25					0.25		
YE-13	P.1051	I.R. 77	120+00	RT.		107+00	RT.																	0.25					0.25		
YE-14	P.1051	RAMP B1	105+00	LT.		109+53	LT.			12	12													0.09					0.09		
YE-15	P.1051	RAMP B4	400+54	LT.		405+20	LT.			6	6													0.09					0.09		
YE-16	P.1051	RAMP B2	205+95	RT.		202+60	RT.			5	5													0.06					0.06		
YE-17	P.1051	RAMP B3	307+60	RT.		300+62	RT.			15	15													0.13					0.13		
YE-18	P.1052	I.R. 77	133+00	LT.		120+00	LT.																	0.25					0.25		
YE-19	P.1052	I.R. 77	120+00	RT.		133+00	RT.																	0.25					0.25		
YE-20	P.1052	RAMP C1	104+80	LT.		105+00	LT.			2	2													0.01					0.01		
YE-21	P.1053	I.R. 77	146+00	LT.		133+00	LT.																	0.25					0.25		
YE-22	P.1053	I.R. 77	133+00	RT.		146+00	RT.																	0.25					0.25		
YE-23	P.1053	RAMP C1	105+00	LT.		112+11	LT.			15	15													0.14					0.14		
YE-24	P.1053	RAMP C3	300+48	LT.		304+00	LT.			5	5													0.07					0.07		
YE-25	P.1054	I.R. 77	146+00	RT.		159+00	RT.																	0.25					0.25		
YE-26	P.1054	I.R. 77	159+00	LT.		146+00	LT.																	0.25					0.25		
YE-27	P.1054	RAMP C2	204+30	RT.		207+77	RT.			9	9													0.07					0.07		
YE-28	P.1054	RAMP C3	304+00	LT.		304+20	LT.			2	2													0.01					0.01		
YE-29	P.1055	I.R. 77	172+00	LT.		159+00	LT.																	0.25					0.25		
YE-30	P.1055	I.R. 77	159+00	RT.		172+00	RT.																	0.25					0.25		
YE-31	P.1056	I.R. 77	185+00	LT.		172+00	LT.																	0.25					0.25		
YE-32	P.1056	I.R. 77	172+00	RT.		185+00	RT.																	0.25					0.25		
YE-33	P.1057	I.R. 77	198+50	LT.		185+00	LT.																	0.26					0.26		
YE-34	P.1057	I.R. 77	185+00	RT.		198+50	RT.																	0.26					0.26		
YE-35	P.1057	RAMP D1	103+50	LT.		109+79	LT.			14	14													0.11					0.11		
YE-36	P.1057	RAMP D2	208+67	RT.		202+85	RT.			8	8													0.11					0.11		
YE-37	P.1058	I.R. 77	198+50	RT.		211+00	RT.																	0.24					0.24		
YE-38	P.1058	I.R. 77	211+00	LT.		198+50	LT.																	0.24					0.24		
YE-39	P.1058	RAMP E1	105+70	LT.		113+37	LT.			16	16													0.15					0.15		
YE-40	P.1058	RAMP E1	112+20	RT.		112+69	RT.			3	3													0.01					0.01		
YE-41	P.1059	I.R. 77	224+50	LT.		211+00	LT.																	0.26					0.26		
YE-42	P.1059	I.R. 77	211+00	RT.		224+50	RT.																	0.26					0.26		
YE-43	P.1059	RAMP J1	110+15	LT.		111+92	LT.			5	5													0.03					0.03		
YE-44	P.1060	I.R. 77	224+50	RT.		228+00	RT.																	0.26					0.26		
YE-45	P.1060	I.R. 77	229+00	LT.		224+50	LT.																	0.03					0.03		
	P.1048	I.R. 77	MOT REPLACEMENT MARKINGS																			2.00	1.00	1.00	800		1500	4.28		800	
	P.1060	I.R. 77	MOT REPLACEMENT MARKINGS																			2.00	1.00	1.00	1600		2000	4.38		1600	
TOTALS CARRIED TO GENERAL SUMMARY										120	120											4.00	2.00	8.40	2400		3500	15.06		2400	

Preliminary Plans - For Reference Only

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 04-22-26
PROJECT ID 105743
SHEET P.1032 TOTAL 1269

CUY-77-11.41 - PART 1

MODEL: TS105 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:43:20 PM RETTIG, JACOB
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Traffic\Sheets\105743_TS100.dgn

REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 GROUND MOUNTED SUPPORT, NO. 2 POST FT	630 GROUND MOUNTED SUPPORT, NO. 3 POST FT	630 GROUND MOUNTED SUPPORT, NO. 4 POST FT	630 GROUND MOUNTED SUPPORT, NO. 6 POST FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4X7.7 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W6X9 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W8X18 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W12X30 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12 FT	630 ONE WAY SUPPORT, NO. 2 POST FT	630 ONE WAY SUPPORT, NO. 3 POST FT	630 SIGN POST REFLECTOR EACH	630 BREAKAWAY STRUCTURAL BEAM CONNECTION EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 6 EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 10 EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 12 EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 1 EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 2 EACH	630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED EACH
S-1	P.1061	IR-77	74+25	CL	D10-5-18	18 X 60																				
S-2	P.1061	NB IR-77	77+75	RT	W4-1R-48	48 X 48			26									2								
S-3	P.1061	SB IR-77	78+00	LT	-	216 X 144																	1			
					E1-H5P	96 X 30																				
S-4	P.1061	SB IR-77	78+60	LT	M3-3-36	36 X 18			34.5																	
					M1-1-36-2	36 X 36																				
					R14-3-36	36 X 36																				
S-5	P.1061	GRANT AVE	18+71	RT	-	96 X 84																				
					-	96 X 84																				
S-6	P.1061	GRANT AVE	20+89	LT	-	108 X 84																				
					-	108 X 84																				
S-7	P.1061	RAMP A3	300+50	LT	R5-1-48	48 x 48											30	2								
					R6-1R-54	54 X 18																				
					R6-1L-54	54 X 18																				
S-8	P.1061	RAMP A3	300+50	RT	R5-1-48	48 x 48											30	2								
					R6-1R-54	54 X 18																				
					R6-1L-54	54 X 18																				
S-9	P.1061	RAMP A3	300+95	LT	R5-1-48	48 x 48											30	2								
					R6-1R-54	54 X 18																				
					R6-1L-54	54 X 18																				
S-10	P.1061	RAMP A3	300+95	RT	R5-1-48	48 x 48											30	2								
					R6-1R-54	54 X 18																				
					R6-1L-54	54 X 18																				
S-11	P.1061	RAMP A3	303+50	LT	D3-H5-108	108 X 36					26								2							
S-12	P.1061	RAMP A4	403+50	RT	D10-H5a-30	30 X 30		12																		
S-13	P.1062	RAMP A3	307+00	RT	E5-H1a	96 X 60				31																
S-14	P.1062	IR-77	85+50	CL	D10-5-18	18 X 60																				
S-15	P.1062	SB IR-77	87+00	LT	-	192 X 144																			1	
					E1-H5P	96 X 30																				
					-	252 X 72																				
					E1-H5P	96 X 30																				
S-16	P.1062	NB IR-77	89+00	RT	-	216 X 96																			1	
					D9-H2a	60 X 30																				
					E1-H5P	120 X 30																				
					-	156 X 72																				
					E1-H5P	120 X 30																				
S-17	P.1062	SB IR-77	93+00	RT	M3-1-36	36 X 18																				
					M1-1-36-2	36 X 36																				
					R14-3-36	36 X 36																				
S-18	P.1062	RAMP A3	304+10	LT	R3-H8bd-30	30 X 30		29										4								
					R5-1-48	48 X 48																				
					R5-1a-42	42 X 30																				
S-19	P.1062	RAMP A3	304+10	RT	R3-H8bd-30	30 X 30		29										4								
					R5-1-48	48 X 48																				
					R5-1a-42	42 X 30																				
S-20	P.1062	RAMP A3	305+00	LT	D10-H5a-30	30 X 30		12																		
S-21	P.1062	RAMP A3	305+75	LT	D14-H4-48	48 X 30	29																			
S-22	P.1062	RAMP A3	306+50	LT	R5-1-48	48 X 48		29										4								
					R5-1a-42	42 X 30																				
S-23	P.1062	RAMP A3	306+50	RT	R5-1-48	48 X 48		29										4								
					R5-1a-42	42 X 30																				
S-24	P.1062	NB IR-77	85+50	RT	R1-2-60	60 X 60		14.8										1								
S-25	P.1062	NB IR-77	87+75	RT	R2-1-48	48 X 60			31																	
S-26	P.1063	IR-77	96+00	CL	D10-5-18	18 X 60																				
S-27	P.1063	SB IR-77	97+75	LT	R2-1-48	48 X 60			31																	
TOTALS CARRIED TO GENERAL SUMMARY							29	155	123	31	26						120	27	2			1		2		

Preliminary Plans - Not For Reference Only

SIGNING SUBSUMMARY

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 04-22-26
PROJECT ID 105743
SHEET P.1033 TOTAL 1269

CUY-77-11.41 - PART 1

MODEL: TS010 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:43:24 PM RETTIG, JACOB
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Traffic\Sheets\105743_TS010.dgn

REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 12 EACH	625 GROUND ROD EACH	630 SIGN, FLAT SHEET SF	630 SIGN, GROUND MOUNTED EXTRUSHEET SF	630 SIGN, OVERHEAD EXTRUSHEET SF	630 SIGN, OVERLAY SF	630 SIGN, DOUBLE FACED, STREET NAME EACH	630 SIGN, DOUBLE FACED, MILE MARKER EACH	630 MAINLINE REFERENCE MARKER EACH	630 RAMP REFERENCE MARKER EACH	630 CONCRETE MEDIAN BARRIER SIGN BRACKET EACH	630 SIGN BACKING ASSEMBLY EACH	630 CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION, TYPE TC-21.50 EACH	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION EACH	630 RIGID OVERHEAD SIGN SUPPORT FOUNDATION EACH	630 SIGN ATTACHMENT ASSEMBLY EACH	630 SIGN SUPPORT ASSEMBLY, BARRIER MOUNTED EACH	630 SIGN HANGER ASSEMBLY, MAST ARM EACH
S-1	P.1061	IR-77	74+25	CL	D10-5-18	18 X 60								1			1							
S-2	P.1061	NB IR-77	77+75	RT	W4-1R-48	48 X 48			16															
S-3	P.1061	SB IR-77	78+00	LT	-	216 X 144		1			216											1	1	
					E1-H5P	96 X 30					20							1						
S-4	P.1061	SB IR-77	78+60	LT	M3-3-36	36 X 18			4.5															
					M1-1-36-2	36 X 36			9															
					R14-3-36	36 X 36			9															
S-5	P.1061	GRANT AVE	18+71	RT	-	96 X 84					56											1		
					-	96 X 84					56											1		
S-6	P.1061	GRANT AVE	20+89	LT	-	108 X 84					63											1		
					-	108 X 84					63											1		
S-7	P.1061	RAMP A3	300+50	LT	R5-1-48	48 x 48			16															
					R6-1R-54	54 X 18			6.75															
					R6-1L-54	54 X 18			6.75															
S-8	P.1061	RAMP A3	300+50	RT	R5-1-48	48 x 48			16															
					R6-1R-54	54 X 18			6.75															
					R6-1L-54	54 X 18			6.75															
S-9	P.1061	RAMP A3	300+95	LT	R5-1-48	48 x 48			16															
					R6-1R-54	54 X 18			6.75															
					R6-1L-54	54 X 18			6.75															
S-10	P.1061	RAMP A3	300+95	LT	R5-1-48	48 x 48			16															
					R6-1R-54	54 X 18			6.75															
					R6-1L-54	54 X 18			6.75															
S-11	P.1061	RAMP A3	303+50	LT	D3-H5-108	108 X 36				27											2			
S-12	P.1061	RAMP A4	403+50	RT	D10-H5a-30	30 X 30										1								
S-13	P.1062	RAMP A3	307+00	RT	E5-H1a	96 X 60			40															
S-14	P.1062	IR-77	85+50	CL	D10-5-18	18 X 60								1			1							
S-15	P.1062	SB IR-77	87+00	LT	-	192 X 144		1			192								1		1	1		
					E1-H5P	96 X 30					20							1						
					-	252 X 72					126											1		
					E1-H5P	96 X 30					20							1						
S-16	P.1062	NB IR-77	89+00	RT	-	216 X 96		1			144								1		1	1		
					D9-H2a	60 X 30					12.5							1						
					E1-H5P	120 X 30					25							1						
					-	156 X 72					78											1		
					E1-H5P	120 X 30					25							1						
S-17	P.1062	SB IR-77	93+00	RT	M3-1-36	36 X 18			4.5														1	
					M1-1-36-2	36 X 36			9															
					R14-3-36	36 X 36			9															
S-18	P.1062	RAMP A3	304+10	LT	R3-H8bd-30	30 X 30			6.25															
					R5-1-48	48 X 48			16															
					R5-1a-42	42 X 30			8.75															
S-19	P.1062	RAMP A3	304+10	RT	R3-H8bd-30	30 X 30			6.25															
					R5-1-48	48 X 48			16															
					R5-1a-42	42 X 30			8.75															
S-20	P.1062	RAMP A3	305+00	LT	D10-H5a-30	30 X 30								1										
S-21	P.1062	RAMP A3	305+75	LT	D14-H4-48	48 X 30			10															
S-22	P.1062	RAMP A3	306+50	LT	R5-1-48	48 X 48			16															
					R5-1a-42	42 X 30			8.75															
S-23	P.1062	RAMP A3	306+50	RT	R5-1-48	48 X 48			16															
					R5-1a-42	42 X 30			8.75															
S-24	P.1062	NB IR-77	85+50	RT	R1-2-60	60 X 60			10.8															
S-25	P.1062	NB IR-77	87+75	RT	R2-1-48	48 X 60			20															
S-26	P.1063	IR-77	96+00	CL	D10-5-18	18 X 60								1			1							
S-27	P.1063	SB IR-77	97+75	LT	R2-1-48	48 X 60			20															
TOTALS CARRIED TO GENERAL SUMMARY								3	392	27	1117			4		1	3	6	2	2	3	9	1	

Preliminary Plans - Not For Reference Only

SIGNING SUBSUMMARY

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 04-22-26
PROJECT ID 105743
SHEET P.1034 TOTAL 1269

CUY-77-11.41 - PART 1

MODEL: TS011 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:43:24 PM RETTIG, JACOB
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Traffic\Sheets\105743_TS010.dgn

REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 GROUND MOUNTED SUPPORT, NO. 2 POST FT	630 GROUND MOUNTED SUPPORT, NO. 3 POST FT	630 GROUND MOUNTED SUPPORT, NO. 4 POST FT	630 GROUND MOUNTED SUPPORT, NO. 6 POST FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4X7.7 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W6X9 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W8X18 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W12X30 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12 FT	630 ONE WAY SUPPORT, NO. 2 POST FT	630 ONE WAY SUPPORT, NO. 3 POST FT	630 SIGN POST REFLECTOR EACH	630 BREAKAWAY STRUCTURAL BEAM CONNECTION EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 6 EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 10 EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 12 EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 1 EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 2 EACH	630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED EACH
S-28	P.1063	NB IR-77	104+00	RT	-	168 X 108																		1		
					E1-H5P	108 X 30																				
					-	156 X 72																				
					E1-H5P	120 X 30																				
					-	252 X 72																				
					D9-H2a	60 X 30																				
					E1-H5P	120 X 30																				
S-29	P.1063	IR-77	106+50	CL	D10-5-18	18 X 60																				
S-30	P.1063	SB IR-77	104+50	LT	D10-3-12	12 X 36																				
S-31	P.1063	SB IR-77	106+00	LT	R1-2-60	60 X 60												1								
S-32	P.1063	NB IR-77	102+25	RT	D10-3-12	12 X 36																				
S-33	P.1064	NB IR-77	107+50	RT	E5-1a-108	108 X 60						35							2							
S-34	P.1064	SB IR-77	109+00	LT	W4-1R-48	48 X 48			26									2								
S-35	P.1064	SB IR-77	110+00	LT	I-H2a-108	108 X 36			27		26								2							
S-36	P.1064	NB IR 77	110+00	RT	I-H2a-48	48 X 24	25																			
S-37	P.1064	SB IR-77	113+50	LT	D7-H3a	192 X 96							40						2							
S-38	P.1064	SB IR-77	114+00	LT	-	204 X 96																1				
					E1-H5P	96 X 30																				
S-39	P.1064	NB IR-77	116+00	RT	W4-1R-48	48 X 48			26									2								
S-40	P.1064	NB IR-77	116+50	LT	D12-H5B	120 X 72				38																
					-	120 X 30																				
S-41	P.1064	IR-77	117+00	CL	D10-5-18	18 X 60																				
S-42	P.1064	SB IR-77	119+00	LT	E5-1a-108	108 X 60						35							2							
S-43	P.1064	RAMP B1	105+10	RT	W3-3-36	36 X 36		13.5										1								
S-44	P.1064	RAMP B1	106+00	LT	R5-1-48	48 X 48		29										4								
					R5-1a-42	42 X 30																				
S-45	P.1064	RAMP B1	106+00	RT	R5-1-48	48 X 48		29										4								
					R5-1a-42	42 X 30																				
S-46	P.1064	RAMP B1	106+50	LT	D14-H4-48	48 X 30	26																			
S-47	P.1064	RAMP B1	107+00	RT	D3-H5-108	108 X 36					26								2							
S-48	P.1064	RAMP B1	108+00	RT	R3-5L-30	30 x 36																				
					R3-H6a-30	30 X 36																				
					R3-5R-30	30 X 36																				
S-49	P.1064	RAMP B1	108+00	RT	D9-H2b-30	30 X 60																				1
					M6-1-30	30 X 21																				1
S-50	P.1064	RAMP B1	108+50	LT	R5-1-48	48 X 48		29										4								
					R5-1a-42	42 X 30																				
S-51	P.1064	RAMP B1	108+50	RT	R5-1-48	48 X 48		29										4								
					R5-1a-42	42 X 30																				
S-52	P.1064	RAMP B4	400+39	LT	-	108 X 84																				
					-	108 X 84																				
S-53	P.1064	RAMP B4	401+00	RT	R5-H10e-30	30 X 30	13																			
S-54	P.1064	RAMP B4	403+00	RT	D10-H5a-30	30 X 30	13																			
S-55	P.1064	RAMP B4	405+00	RT	R1-2-60	60 X 60		15										1								
S-56	P.1064	RAMP B2	203+75	LT	D10-H5a-30	30 X 30	13																			
S-57	P.1064	RAMP B2	205+88	RT	-	96 X 84																				
					-	96 X 84																				
S-58	P.1064	RAMP B3	300+61	RT	R5-1-48	48 x 48											30	2								
					R6-1R-54	54 X 18																				
					R6-1L-54	54 X 18																				
S-59	P.1064	RAMP B3	300+61	LT	R5-1-48	48 x 48											30	2								
					R6-1R-54	54 X 18																				
					R6-1L-54	54 X 18																				
S-60	P.1064	RAMP B3	300+70	LT	R10-11a-24	24 X 30	13																			
S-61	P.1064	RAMP B3	300+70	RT	R10-6-24	24 X 36	13.5																			
S-62	P.1064	RAMP B3	301+63	LT	D14-H4-48	48 X 30	26																			
S-63	P.1064	RAMP B3	302+25	LT	R3-5L-30	30 x 36																				
					R3-H6a-30	30 X 36																				
					R3-5R-30	30 X 36																				
TOTALS CARRIED TO GENERAL SUMMARY							143	145	79	38	52	70	40				60	27	10		1			1	2	

Preliminary Plans - Not For Reference Only

SIGNING SUBSUMMARY

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 04-22-26
PROJECT ID 105743
SHEET P.1035 TOTAL 1269

CUY-77-11.41 - PART 1

MODEL: TS012 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:43:25 PM RETTIG, JACOB
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Traffic\Sheets\105743_TS010.dgn

REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 12 EACH	625 GROUND ROD EACH	630 SIGN, FLAT SHEET SF	630 SIGN, GROUND MOUNTED EXTRUSHEET SF	630 SIGN, OVERHEAD EXTRUSHEET SF	630 SIGN, OVERLAY SF	630 SIGN, DOUBLE FACED, STREET NAME EACH	630 SIGN, DOUBLE FACED, MILE MARKER EACH	630 MAINLINE REFERENCE MARKER EACH	630 RAMP REFERENCE MARKER EACH	630 CONCRETE MEDIAN BARRIER SIGN BRACKET EACH	630 SIGN BACKING ASSEMBLY EACH	630 CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION, TYPE TC-21.50 EACH	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION EACH	630 RIGID OVERHEAD SIGN SUPPORT FOUNDATION EACH	630 SIGN ATTACHMENT ASSEMBLY EACH	630 SIGN SUPPORT ASSEMBLY, BARRIER MOUNTED EACH	630 SIGN HANGER ASSEMBLY, MAST ARM EACH
S-28	P.1063	NB IR-77	104+00	RT	-	168 X 108		1			126								1		1			
					E1-H5P	108 X 30					22.5							1						
					-	156 X 72					78											1		
					E1-H5P	120 X 30					25							1						
					-	252 X 72					126											1		
					D9-H2a	60 X 30					12.5							1						
					E1-H5P	120 X 30					25							1						
S-29	P.1063	IR-77	106+50	CL	D10-5-18	18 X 60								1			1							
S-30	P.1063	SB IR-77	104+50	LT	D10-3-12	12 X 36								1									1	
S-31	P.1063	SB IR-77	106+00	LT	R1-2-60	60 X 60			10.8														1	
S-32	P.1063	NB IR-77	102+25	RT	D10-3-12	12 X 36								1									1	
S-33	P.1064	NB IR-77	107+50	RT	E5-1a-108	108 X 60		2		45											2			
S-34	P.1064	SB IR-77	109+00	LT	W4-1R-48	48 X 48			16															
S-35	P.1064	SB IR-77	110+00	LT	I-H2a-108	108 X 36		2		27										2				
S-36	P.1064	NB IR 77	110+00	RT	I-H2a-48	48 X 24			8															
S-37	P.1064	SB IR-77	113+50	LT	D7-H3a	192 X 96		2		128										2				
S-38	P.1064	SB IR-77	114+00	LT	-	204 X 96		1			136										1	1		
					E1-H5P	96 X 30					20							1						
S-39	P.1064	NB IR-77	116+00	RT	W4-1R-48	48 X 48			16															
S-40	P.1064	NB IR-77	116+50	LT	D12-H5B	120 X 72				60														
					-	120 X 30				25														
S-41	P.1064	IR-77	117+00	CL	D10-5-18	18 X 60								1			1							
S-42	P.1064	SB IR-77	119+00	LT	E5-1a-108	108 X 60		2		45										2				
S-43	P.1064	RAMP B1	105+10	RT	W3-3-36	36 X 36			9															
S-44	P.1064	RAMP B1	106+00	LT	R5-1-48	48 X 48			16															
					R5-1a-42	42 X 30			8.75															
S-45	P.1064	RAMP B1	106+00	RT	R5-1-48	48 X 48			16															
					R5-1a-42	42 X 30			8.75															
S-46	P.1064	RAMP B1	106+50	LT	D14-H4-48	48 X 30			10															
S-47	P.1064	RAMP B1	107+00	RT	D3-H5-108	108 X 36		2		27										2				
S-48	P.1064	RAMP B1	108+00	RT	R3-5L-30	30 x 36	1	1	7.5												1			1
					R3-H6a-30	30 X 36			7.5															1
					R3-5R-30	30 X 36			7.5															1
S-49	P.1064	RAMP B1	108+00	RT	D9-H2b-30	30 X 60			12.5															
					M6-1-30	30 X 21			4.38															
S-50	P.1064	RAMP B1	108+50	LT	R5-1-48	48 X 48			16															
					R5-1a-42	42 X 30			8.75															
S-51	P.1064	RAMP B1	108+50	RT	R5-1-48	48 X 48			16															
					R5-1a-42	42 X 30			8.75															
S-52	P.1064	RAMP B4	400+39	LT	-	108 X 84					63											1		
					-	108 X 84					63											1		
S-53	P.1064	RAMP B4	401+00	RT	R5-H10e-30	30 X 30			6.25															
S-54	P.1064	RAMP B4	403+00	RT	D10-H5a-30	30 X 30										1								
S-55	P.1064	RAMP B4	405+00	RT	R1-2-60	60 X 60			10.8															
S-56	P.1064	RAMP B2	203+75	LT	D10-H5a-30	30 X 30										1								
S-57	P.1064	RAMP B2	205+88	RT	-	96 X 84					56											1		
					-	96 X 84					56											1		
S-58	P.1064	RAMP B3	300+61	RT	R5-1-48	48 x 48			16															
					R6-1R-54	54 X 18			6.75															
					R6-1L-54	54 X 18			6.75															
S-59	P.1064	RAMP B3	300+61	LT	R5-1-48	48 x 48			16															
					R6-1R-54	54 X 18			6.75															
					R6-1L-54	54 X 18			6.75															
S-60	P.1064	RAMP B3	300+70	LT	R10-11a-24	24 X 30			5															
S-61	P.1064	RAMP B3	300+70	RT	R10-6-24	24 X 36			6															
S-62	P.1064	RAMP B3	301+63	LT	D14-H4-48	48 X 30			10															
S-63	P.1064	RAMP B3	302+25	LT	R3-5L-30	30 x 36	1	1	7.5												1			1
					R3-H6a-30	30 X 36			7.5															1
					R3-5R-30	30 X 36			7.5															1
TOTALS CARRIED TO GENERAL SUMMARY							2	14	328	357	809			4		2	2	5	1	8	6	7	3	6

Preliminary Plans - Not For Reference Only

SIGNING SUBSUMMARY

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 04-22-26
PROJECT ID 105743
SHEET P.1036 TOTAL 1269

CUY-77-11.41 - PART 1

MODEL: TS013 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:43:25 PM RETTIG, JACOB
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Traffic\Sheets\105743_TS010.dgn

REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 GROUND MOUNTED SUPPORT, NO. 2 POST FT	630 GROUND MOUNTED SUPPORT, NO. 3 POST FT	630 GROUND MOUNTED SUPPORT, NO. 4 POST FT	630 GROUND MOUNTED SUPPORT, NO. 6 POST FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4X7.7 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W6X9 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W8X18 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W12X30 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12 FT	630 ONE WAY SUPPORT, NO. 2 POST FT	630 ONE WAY SUPPORT, NO. 3 POST FT	630 SIGN POST REFLECTOR EACH	630 BREAKAWAY STRUCTURAL BEAM CONNECTION EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 6 EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 10 EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 12 EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 1 EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 2 EACH	630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED EACH
S-64	P.1064	RAMP B3	302+50	LT	S1-1-36	36 X 36			15									1								
					W16-19P-30	30 X 18																				
S-65	P.1064	RAMP B3	302+50	RT	S1-1-36	36 X 36			15									1								
					W16-19P-30	30 X 18																				
S-66	P.1064	RAMP B3	303+75	LT	R5-1-48	48 X 48		29										4								
					R5-1a-42	42 X 30																				
S-67	P.1064	RAMP B3	303+75	RT	R5-1-48	48 X 48		29										4								
					R5-1a-42	42 X 30																				
S-68	P.1064	RAMP B3	304+00	LT	D3-H5-108	108 X 36					32								2							
S-69	P.1064	RAMP B3	305+50	LT	D10-H5a-30	30 X 30	13																			
S-70	P.1064	RAMP B3	305+50	LT	W3-3-36	36 X 36		13.5										1								
S-71	P.1064	RAMP B3	306+00	LT	R5-1-48	48 X 48		29										4								
					R5-1a-42	42 X 30																				
S-72	P.1064	RAMP B3	306+00	RT	R5-1-48	48 X 48		29										4								
					R5-1a-42	42 X 30																				
S-73	P.1065	IR-77	127+50	CL	D10-5-18	18 X 60																				
S-74	P.1065	NB IR-77	128+00	RT	-	204 X 72																			1	
					E1-H5P	108 X 30																				
					-	168 X 84																				
					E1-H5P	120 X 30																				
S-75	P.1065	NB IR-77	132+90	RT	E5-H1c-48	48 X 84				37																
S-76	P.1065	RAMP C1	102+00	RT	D14-H4-48	48 X 30	26																			
S-77	P.1065	SB IR-77	122+00	LT	-	252 X 72																	1			
					E1-H5P	120 X 30																				
S-77A	P.1066	NB IR-77	137+50	RT	I-H2a-84	84 X 36				27																
S-78	P.1066	IR-77	138+00	CL	D10-5-18	18 X 60																				
S-79	P.1066	NB IR-77	139+50	RT	R2-1-48	48 X 60			31																	
S-80	P.1066	NB IR-77	141+50	RT	-	192 X 180																		1		
					E1-H5P	108 X 30																				
S-81	P.1066	SB IR-77	142+75	LT	I-H2a-84	84 X 36				27																
S-82	P.1066	SB IR-77	143+50	LT	-	204 X 96																		1		
					E1-H5P	96 X 30																				
S-83	P.1066	NB IR-77	144+25	RT	W4-1R-48	48 X 48			26									2								
S-84	P.1066	RAMP C1	105+50	LT	R5-1-48	48 X 48		29										4								
					R5-1a-42	42 X 30																				
S-85	P.1066	RAMP C1	105+50	RT	R5-1-48	48 X 48		29										4								
					R5-1a-42	42 X 30																				
					W3-3-36	36 X 36																				
S-86	P.1066	RAMP C1	107+00	RT	D10-H5a-30	30 X 30	13																			
S-87	P.1066	RAMP C1	108+00	RT	W2-3L-36	36 X 36		13.5										1								
S-88	P.1066	RAMP C1	109+00	RT	D1-3d-132	132 X 72									38				2							
S-89	P.1066	RAMP C1	110+00	LT	S1-1-36	36 X 36			15									1								
					W16-19P-30	30 X 18																				
S-90	P.1066	RAMP C1	110+00	RT	S1-1-36	36 X 36			15									1								
					W16-19P-30	30 X 18																				
S-91	P.1066	RAMP C1	111+00	LT	R5-1-48	48 X 48		29										4								
					R5-1a-42	42 X 30																				
S-92	P.1066	RAMP C1	111+00	RT	R5-1-48	48 X 48		29										4								
					R5-1a-42	42 X 30																				
S-93	P.1066	RAMP C1	111+75	RT	R5-2-36	36 X 36			15.25																	
					M6-1-30	30 X 21																				
S-94	P.1066	RAMP C1	112+00	RT	R5-1-36	36 X 36										28		2								
					R6-1R-54	54 X 18																				
					R6-1L-54	54 X 18																				
S-95	P.1066	RAMP C1	112+00	LT	R5-1-36	36 X 36										28		2								
					R6-1R-54	54 X 18																				
					R6-1L-54	54 X 18																				
S-96	P.1066	RAMP C1	112+00	RT	W14-2-36	36 X 36		14										1								
S-97	P.1066	RAMP C3	300+28	LT	-	108 X 84																				
					-	108 X 84																				
TOTALS CARRIED TO GENERAL SUMMARY							52	273	133	91	32				38		56	45	4		1	2		1		

Preliminary Plans - Not For Reference Only

SIGNING SUBSUMMARY

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 04-22-26
PROJECT ID 105743
SHEET P.1037 TOTAL 1269

CUY-77-11.41 - PART 1

MODEL: TS014 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:43:26 PM RETTIG, JACOB
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Traffic\Sheets\105743_TS010.dgn

REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 12	625 GROUND ROD	630 SIGN, FLAT SHEET	630 SIGN, GROUND MOUNTED EXTRUSHEET	630 SIGN, OVERHEAD EXTRUSHEET	630 SIGN, OVERLAY	630 SIGN, DOUBLE FACED, STREET NAME	630 SIGN, DOUBLE FACED, MILE MARKER	630 MAINLINE REFERENCE MARKER	630 RAMP REFERENCE MARKER	630 CONCRETE MEDIAN BARRIER SIGN BRACKET	630 SIGN BACKING ASSEMBLY	630 CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION, TYPE TC-21.50	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	630 RIGID OVERHEAD SIGN SUPPORT FOUNDATION	630 SIGN ATTACHMENT ASSEMBLY	630 SIGN SUPPORT ASSEMBLY, BARRIER MOUNTED	630 SIGN HANGER ASSEMBLY, MAST ARM
							EACH	EACH	SF	SF	SF	SF	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
S-64	P.1064	RAMP B3	302+50	LT	S1-1-36	36 X 36			9															
					W16-19P-30	30 X 18			3.75															
S-65	P.1064	RAMP B3	302+50	RT	S1-1-36	36 X 36			9															
					W16-19P-30	30 X 18			3.75															
S-66	P.1064	RAMP B3	303+75	LT	R5-1-48	48 X 48			16															
					R5-1a-42	42 X 30			8.75															
S-67	P.1064	RAMP B3	303+75	RT	R5-1-48	48 X 48			16															
					R5-1a-42	42 X 30			8.75															
S-68	P.1064	RAMP B3	304+50	LT	D3-H5-108	108 X 36		2		27										2				
S-69	P.1064	RAMP B3	305+50	LT	D10-H5a-30	30 X 30										1								
S-70	P.1064	RAMP B3	305+50	LT	W3-3-36	36 X 36			9															
S-71	P.1064	RAMP B3	306+00	LT	R5-1-48	48 X 48			16															
					R5-1a-42	42 X 30			8.75															
S-72	P.1064	RAMP B3	306+00	RT	R5-1-48	48 X 48			16															
					R5-1a-42	42 X 30			8.75															
S-73	P.1065	IR-77	127+50	CL	D10-5-18	18 X 60								1			1							
S-74	P.1065	NB IR-77	128+00	RT	-	204 X 72		1			102								1		1			
					E1-H5P	108 X 30					22.5							1						
					-	168 X 84					98											1		
					E1-H5P	120 X 30					25							1						
S-75	P.1065	NB IR-77	132+90	RT	E5-H1c-48	48 X 84				28														
S-76	P.1065	RAMP C1	102+00	RT	D14-H4-48	48 X 30			10															
S-77	P.1065	SB IR-77	122+00	LT	-	252 X 72		1			126										1			
					E1-H5P	120 X 30					25							1						
S-77A	P.1066	NB IR-77	137+50	RT	I-H2a-84	84 X 36			21															
S-78	P.1066	IR-77	138+00	CL	D10-5-18	18 X 60								1			1							
S-79	P.1066	NB IR-77	139+50	RT	R2-1-48	48 X 60			20															
S-80	P.1066	NB IR-77	141+50	RT	-	192 X 180		1			240										1			
					E1-H5P	108 X 30					22.5							1						
S-81	P.1066	SB IR-77	142+75	LT	I-H2a-84	84 X 36			21															
S-82	P.1066	SB IR-77	143+50	LT	-	204 X 96		1			136										1			
					E1-H5P	96 X 30					20							1						
S-83	P.1066	NB IR-77	144+25	RT	W4-1R-48	48 X 48			16															
S-84	P.1066	RAMP C1	105+50	LT	R5-1-48	48 X 48			16															
					R5-1a-42	42 X 30			8.75															
S-85	P.1066	RAMP C1	105+50	RT	R5-1-48	48 X 48			16															
					R5-1a-42	42 X 30			8.75															
					W3-3-36	36 X 36			9															
S-86	P.1066	RAMP C1	107+00	RT	D10-H5a-30	30 X 30										1								
S-87	P.1066	RAMP C1	108+00	RT	W2-3L-36	36 X 36			9															
S-88	P.1066	RAMP C1	109+00	RT	D1-3d-132	132 X 72		2		66											2			
S-89	P.1066	RAMP C1	110+00	LT	S1-1-36	36 X 36			9															
					W16-19P-30	30 X 18			3.75															
S-90	P.1066	RAMP C1	110+00	RT	S1-1-36	36 X 36			9															
					W16-19P-30	30 X 18			3.75															
S-91	P.1066	RAMP C1	111+00	LT	R5-1-48	48 X 48			16															
					R5-1a-42	42 X 30			8.75															
S-92	P.1066	RAMP C1	111+00	RT	R5-1-48	48 X 48			16															
					R5-1a-42	42 X 30			8.75															
S-93	P.1066	RAMP C1	111+75	RT	R5-2-36	36 X 36			9															
					M6-1-30	30 X 21			4.375															
S-94	P.1066	RAMP C1	112+00	RT	R5-1-36	36 X 36			9															
					R6-1R-54	54 X 18			6.75															
					R6-1L-54	54 X 18			6.75															
S-95	P.1066	RAMP C1	112+00	LT	R5-1-36	36 X 36			9															
					R6-1R-54	54 X 18			6.75															
					R6-1L-54	54 X 18			6.75															
S-96	P.1066	RAMP C1	112+00	RT	W14-2-36	36 X 36			9															
S-97	P.1066	RAMP C3	300+28	LT	-	108 X 84					63												1	
					-	108 X 84					63												1	
TOTALS CARRIED TO GENERAL SUMMARY								8	432	121	943			2		2	2	5	1	2	6	3		

Preliminary Plans - Not For Reference Only

SIGNING SUBSUMMARY

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 04-22-26
PROJECT ID 105743
SHEET P.1038 TOTAL 1269

CUY-77-11.41 - PART 1

MODEL: TS015 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:43:27 PM RETTIG, JACOB
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Traffic\Sheets\105743_TS010.dgn

REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 GROUND MOUNTED SUPPORT, NO. 2 POST FT	630 GROUND MOUNTED SUPPORT, NO. 3 POST FT	630 GROUND MOUNTED SUPPORT, NO. 4 POST FT	630 GROUND MOUNTED SUPPORT, NO. 6 POST FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4X7.7 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W6X9 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W8X18 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W12X30 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12 FT	630 ONE WAY SUPPORT, NO. 2 POST FT	630 ONE WAY SUPPORT, NO. 3 POST FT	630 SIGN POST REFLECTOR EACH	630 BREAKAWAY STRUCTURAL BEAM CONNECTION EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 6 EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 10 EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 12 EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 1 EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 2 EACH	630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED EACH
S-98	P.1066	RAMP C3	301+50	RT	R5-H10e-30	30 X 30	13																			
S-99	P.1066	RAMP C3	303+75	RT	D10H5a-30	30 X 30	13																			
S-100	P.1067	IR-77	148+50	CL	D10-5-18	18 X 60																				
S-101	P.1067	SB IR-77	150+34	LT	E5-H1c-48	48 X 84				37																
S-102	P.1067	NB IR-77	153+00	RT	R2-1-48	48 X 60			31																	
S-103	P.1067	SB IR-77	154+00	LT	-	216 X 96																			1	
					E1-H5P	120 X 30																				
					-	192 X 48																				
					E1-H5P	120 X 30																				
S-104	P.1067	RAMP C2	201+60	LT	D11-1a-18	18 X 18	12.75																			
					M6-1r-12	12 X 9																				
S-105	P.1067	RAMP C2	203+40	RT	R5-1-48	48 X 48		29										4								
					R5-1a-42	42 X 30																				
					R3-H8bq-36	36 X 30																				
S-106	P.1067	RAMP C2	203+40	LT	R5-1-48	48 X 48		29										4								
					R5-1a-42	42 X 30																				
					R3-H8bq-36	36 X 30																				
S-107	P.1067	RAMP C2	203+65	LT	D11-1a-18	18 X 18	12.75																			
					M6-2r-12	12 X 9																				
S-108	P.1067	RAMP C2	204+08	LT	D11-1a-18	18 X 18	12.75																			
					M6-1l-12	12 X 9																				
S-109	P.1067	MUP	5+61	LT	R1-1-18	18 X 18	12											1								
S-110	P.1067	MUP	5+71	RT	R5-3-24	24 X 24	12.5																			
S-111	P.1067	RAMP C2	204+50	LT	W3-3-48	48 X 48		15.5																		
S-112	P.1067	NB IR-77	150+00	RT	R1-2-60	60 X 60		14.83										1								
S-113	P.1068	IR-77	159+00	CL	D10-5-18	18 X 60																				
S-114	P.1068	NB IR-77	161+50	RT	-	192 X 168																			1	
					E1-H5P	108 X 30																				
					-	216 X 108																				
					E1-H5P	120 X 30																				
					-	204 X 72																				
					E1-H5P	108 X 30																				
S-115	P.1068	IR-77	159+00	CL	D10-5-18	18 X 60																				
S-116	P.1068	MUP	20+05	LT	R1-1-18	18 X 18	12											1								
S-117	P.1068	NB IR-77	169+00	RT	OM-3L-12	12 X 36																				
S-118	P.1068	SB IR-77	170+75	RT	OM-3R-12	12 X 36																				
S-119	P.1068	NB IR-77	169+00	RT	OM-3L-12	12 X 36																				
S-120	P.1068	SB IR-77	170+75	RT	OM-3R-12	12 X 36																				
S-121	P.1068	MUP	26+25	RT	R1-1-18	18 X 18	12											1								
S-122	P.1069	SB IR-77	177+00	LT	-	216 X 96																			1	
					E1-H5P	120 X 30																				
					-	156 X 72																				
					E1-H5P	120 X 30																				
S-123	P.1069	IR-77	159+00	CL	D10-5-18	18 X 60																				
S-124	P.1069	SB IR-77	181+00	LT	R2-1-48	48 X 60			31																	
S-125	P.1069	NB IR-77	182+00	RT	-	216 X 108																1				
					E1-H5P	120 X 30																				
S-126	P.1069	MUP	30+00	RT	R5-3-24	24 X 24	12.5																			
S-127	P.1069	MUP	30+17	RT	W11-15-30	30 X 30			15									1								
					W11-15p-18	18 X 12																				
					W16-9P-24	24 X 12																				
S-128	P.1069	MUP	30+30	RT	R1-1-18	18 X 18	12											1								
S-129	P.1069	MUP	30+44	LT	R1-1-36	36 X 36		13.5										1								
S-130	P.1069	MUP	30+91	RT	R1-1-18	18 X 18	12											1								
S-131	P.1069	MUP	31+03	LT	W11-15-30	30 X 30			15									1								
					W11-15p-18	18 X 12																				
					W16-7PL-24	24 X 12																				
TOTALS CARRIED TO GENERAL SUMMARY							150	102	92	37								17				1		2	1	

Preliminary Plans - Not For Reference Only

SIGNING SUBSUMMARY

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 04-22-26
PROJECT ID 105743
SHEET P.1039 TOTAL 1269

CUY-77-11.41 - PART 1

MODEL: TS016 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:43:27 PM RETTIG, JACOB
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Traffic\Sheets\105743_TS010.dgn

REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 12	625 GROUND ROD	630 SIGN, FLAT SHEET	630 SIGN, GROUND MOUNTED EXTRUSHEET	630 SIGN, OVERHEAD EXTRUSHEET	630 SIGN, OVERLAY	630 SIGN, DOUBLE FACED, STREET NAME	630 SIGN, DOUBLE FACED, MILE MARKER	630 MAINLINE REFERENCE MARKER	630 RAMP REFERENCE MARKER	630 CONCRETE MEDIAN BARRIER SIGN BRACKET	630 SIGN BACKING ASSEMBLY	630 CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION, TYPE TC-21.50	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	630 RIGID OVERHEAD SIGN SUPPORT FOUNDATION	630 SIGN ATTACHMENT ASSEMBLY	630 SIGN SUPPORT ASSEMBLY, BARRIER MOUNTED	630 SIGN HANGER ASSEMBLY, MAST ARM
							EACH	EACH	SF	SF	SF	SF	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
S-98	P.1066	RAMP C3	301+50	RT	R5-H10e-30	30 X 30			6.25															
S-99	P.1066	RAMP C3	303+75	RT	D10H5a-30	30 X 30										1								
S-100	P.1067	IR-77	148+50	CL	D10-5-18	18 X 60								1			1							
S-101	P.1067	SB IR-77	150+34	LT	E5-H1c-48	48 X 84				28														
S-102	P.1067	NB IR-77	153+00	RT	R2-1-48	48 X 60			20															
S-103	P.1067	SB IR-77	154+00	LT	-	216 X 96		1			144										1			
					E1-H5P	120 X 30					25							1						
					-	192 X 48					64											1		
					E1-H5P	120 X 30					25							1						
S-104	P.1067	RAMP C2	201+60	LT	D11-1a-18	18 X 18			2.25															
					M6-1r-12	12 X 9			0.75															
S-105	P.1067	RAMP C2	203+40	RT	R5-1-48	48 X 48			16															
					R5-1a-42	42 X 30			8.75															
					R3-H8bq-36	36 X 30			7.5															
S-106	P.1067	RAMP C2	203+40	LT	R5-1-48	48 X 48			16															
					R5-1a-42	42 X 30			8.75															
					R3-H8bq-36	36 X 30			7.5															
S-107	P.1067	RAMP C2	203+65	LT	D11-1a-18	18 X 18			2.25															
					M6-2r-12	12 X 9			0.75															
S-108	P.1067	RAMP C2	204+08	LT	D11-1a-18	18 X 18			2.25															
					M6-1l-12	12 X 9			0.75															
S-109	P.1067	MUP	5+61	LT	R1-1-18	18 X 18			2.25															
S-110	P.1067	MUP	5+71	RT	R5-3-24	24 X 24			4															
S-111	P.1067	RAMP C2	204+50	LT	W3-3-48	48 X 48			16															
S-112	P.1067	NB IR-77	150+00	RT	R1-2-60	60 X 60			10.8															
S-113	P.1068	IR-77	159+00	CL	D10-5-18	18 X 60								1			1							
S-114	P.1068	NB IR-77	161+50	RT	-	192 X 168		1			224								1		1			
					E1-H5P	108 X 30					22.5							1						
					-	216 X 108					162											1		
					E1-H5P	120 X 30					25							1						
					-	204 X 72					102											1		
					E1-H5P	108 X 30					22.5							1						
S-115	P.1068	IR-77	159+00	CL	D10-5-18	18 X 60								1			1							
S-116	P.1068	MUP	20+05	LT	R1-1-18	18 X 18			2.25															
S-117	P.1068	NB IR-77	169+00	RT	OM-3L-12	12 X 36			3															1
S-118	P.1068	SB IR-77	170+75	RT	OM-3R-12	12 X 36			3															1
S-119	P.1068	NB IR-77	169+00	RT	OM-3L-12	12 X 36			3															1
S-120	P.1068	SB IR-77	170+75	RT	OM-3R-12	12 X 36			3															1
S-121	P.1068	MUP	26+25	RT	R1-1-18	18 X 18			2.25															
S-122	P.1069	SB IR-77	177+00	LT	-	216 X 96					144								2					
					E1-H5P	120 X 30					25							1						
					-	156 X 72					78											1		
					E1-H5P	120 X 30					25							1						
S-123	P.1069	IR-77	159+00	CL	D10-5-18	18 X 60								1			1							
S-124	P.1069	SB IR-77	181+00	LT	R2-1-48	48 X 60			20															
S-125	P.1069	NB IR-77	182+00	RT	-	216 X 108		1			162											1		
					E1-H5P	120 X 30					25							1						
S-126	P.1069	MUP	30+00	RT	R5-3-24	24 X 24			4															
S-127	P.1069	MUP	30+17	RT	W11-15-30	30 X 30			6.25															
					W11-15p-18	18 X 12			1.5															
					W16-9P-24	24 X 12			2															
S-128	P.1069	MUP	30+30	RT	R1-1-18	18 X 18			2.25															
S-129	P.1069	MUP	30+44	LT	R1-1-36	36 X 36			9															
S-130	P.1069	MUP	30+91	RT	R1-1-18	18 X 18			2.25															
S-131	P.1069	MUP	31+03	LT	W11-15-30	30 X 30			6.25															
					W11-15p-18	18 X 12			1.5															
					W16-7PL-24	24 X 12			2															
TOTALS CARRIED TO GENERAL SUMMARY								3	207	28	1275			4		1	4	8	3		3	4	4	

Preliminary Plans - Not For Reference Only

SIGNING SUBSUMMARY

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 04-22-26
PROJECT ID 105743
SHEET P.1040 TOTAL 1269

CUY-77-11.41 - PART 1

MODEL: TS017 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:43:28 PM RETTIG, JACOB
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Traffic\Sheets\105743_TS010.dgn

REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 GROUND MOUNTED SUPPORT, NO. 2 POST FT	630 GROUND MOUNTED SUPPORT, NO. 3 POST FT	630 GROUND MOUNTED SUPPORT, NO. 4 POST FT	630 GROUND MOUNTED SUPPORT, NO. 6 POST FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4X7.7 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W6X9 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W8X18 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W12X30 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12 FT	630 ONE WAY SUPPORT, NO. 2 POST FT	630 ONE WAY SUPPORT, NO. 3 POST FT	630 SIGN POST REFLECTOR EACH	630 BREAKAWAY STRUCTURAL BEAM CONNECTION EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 6 EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 10 EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 12 EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 1 EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 2 EACH	630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED EACH
S-132	P.1069	MUP	31+35	RT	W11-15-30	30 X 30			15									1							
					W11-15p-18	18 X 12																			
					W16-7PL-24	24 X 12																			
S-133	P.1069	MUP	31+44	LT	R1-1-18	18 X 18	12											1							
S-134	P.1069	MUP	31+75	RT	R5-3-24	24 X 24	12.5																		
S-135	P.1070	IR-77	190+50	CL	D10-5-18	18 X 60																			
S-136	P.1070	NB IR-77	191+50	RT	E5-H1a-96	96 X 60						38							2						
S-137	P.1070	NB IR-77	192+00	RT	W3-5-48	48 X 48		29										2							
S-138	P.1070	RAMP D2	203+50	RT	W4-1R-48	48 X 48			26									2							
S-139	P.1070	SB IR-77	196+00	LT	R2-1-48	48 X 60			31																
S-140	P.1070	NB IR-77	196+00	RT	-	156 X 96																		1	
					-	180 X 180																			
					E1-H5P	108 X 30																			
					-	192 X 120																			
					E1-H5P	120 X 30																			
S-141	P.1070	SB IR-77	196+50	LT	R2-1-48	48 X 60			31																
S-142	P.1070	RAMP D2	200+75	LT	R1-2-60	60 X 60		14.83										1							
S-143	P.1070	MUP	52+65	RT	R1-1-18	18 X 18	12											1							
S-144	P.1070	MUP	52+75	LT	R5-3-24	24 X 24																			1
S-145	P.1070	NB IR-77	188+00	RT	-	180 X 72																1			
					E1-H5P	108 X 30																			
S-146	P.1070	RAMP D1	106+50	LT	R5-1-48	48 X 48		29										4							
					R5-1a-42	42 X 30																			
S-147	P.1070	RAMP D1	106+50	RT	R5-1-48	48 X 48		29										4							
					R5-1a-42	42 X 30																			
S-148	P.1070	RAMP D1	107+05	RT	D10-H5a-30	30 X 30	13																		
S-149	P.1071	SB IR-77	199+00	RT	-	156 X 72														1					
					E1-H5P	120 X 30																			
S-150	P.1071	NB IR-77	201+00	RT	-	192 X 120								54					2						
					E1-H5P	120 X 30																			
S-151	P.1071	NB IR-77	205+00	RT	E5-H1c-48	48 X 84				37															
S-152	P.1071	IR-77	202+35	CL	D10-5-18	18 X 60																			
S-153	P.1071	SB IR-77	206+00	LT	R1-2-60	60 X 60		14.83										1							
S-154	P.1071	RAMP E1	107+00	LT	R5-1-48	48 X 48		29										4							
					R5-1a-42	42 X 30																			
S-155	P.1071	RAMP E1	107+00	RT	R5-1-48	48 X 48		29										4							
					R5-1a-42	42 X 30																			
S-156	P.1071	RAMP E1	109+50	LT	W3-3-36	36 X 36		14.5										1							
S-157	P.1071	RAMP E1	109+50	RT	W3-3-36	36 X 36		14.5										1							
S-158	P.1071	RAMP E1	109+60	LT	R5-1-48	48 X 48		29										4							
					R5-1a-42	42 X 30																			
S-159	P.1071	RAMP E1	109+60	RT	R5-1-48	48 X 48		29										4							
					R5-1a-42	42 X 30																			
S-160	P.1071	RAMP E1	110+50	LT	R3-H8bq-36	36 X 30		13																	
S-161	P.1071	RAMP E1	110+50	RT	R3-H8bq-36	36 X 30		13																	
S-162	P.1071	BROADWAY AVE	7+15	LT	R1-1-48	48 X 48											30	2							
					R6-1R-54	54 X 18																			
					R6-1L-54	54 X 18																			
					R5-1-48	48 x 48																			
S-163	P.1071	BROADWAY AVE	7+60	LT	R1-1-48	48 X 48											30	2							
					R6-1R-54	54 X 18																			
					R6-1L-54	54 X 18																			
					R5-1-48	48 x 48																			
S-164	P.1071	RAMP E1	113+15	RT	R6-1R-54	54 X 18											30	2							
					R6-1L-54	54 X 18																			
					R5-1-48	48 x 48																			
S-165	P.1071	RAMP E1	113+30	LT	R6-1R-54	54 X 18											30	2							
					R6-1L-54	54 X 18																			
					R5-1-48	48 x 48																			
TOTALS CARRIED TO GENERAL SUMMARY							50	288	103	37		38		54			120	43	4	1	1		1		1

Preliminary Plans - Not For Reference Only

SIGNING SUBSUMMARY

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC

REVIEWER JAR 04-22-26

PROJECT ID 105743

SHEET P.1041 TOTAL 1269

CUY-77-11.41 - PART 1

MODEL: TS018 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:43:28 PM RETTIG, JACOB
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Traffic\Sheets\105743_TS010.dgn

REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 12 EACH	625 GROUND ROD EACH	630 SIGN, FLAT SHEET SF	630 SIGN, GROUND MOUNTED EXTRUSHEET SF	630 SIGN, OVERHEAD EXTRUSHEET SF	630 SIGN, OVERLAY SF	630 SIGN, DOUBLE FACED, STREET NAME EACH	630 SIGN, DOUBLE FACED, MILE MARKER EACH	630 MAINLINE REFERENCE MARKER EACH	630 RAMP REFERENCE MARKER EACH	630 CONCRETE MEDIAN BARRIER SIGN BRACKET EACH	630 SIGN BACKING ASSEMBLY EACH	630 CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION, TYPE TC-21.50 EACH	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION EACH	630 RIGID OVERHEAD SIGN SUPPORT FOUNDATION EACH	630 SIGN ATTACHMENT ASSEMBLY EACH	630 SIGN SUPPORT ASSEMBLY, BARRIER MOUNTED EACH	630 SIGN HANGER ASSEMBLY, MAST ARM EACH
S-132	P.1069	MUP	31+35	RT	W11-15-30	30 X 30			6.25															
					W11-15p-18	18 X 12			1.5															
					W16-7PL-24	24 X 12			2															
S-133	P.1069	MUP	31+44	LT	R1-1-18	18 X 18			2.25															
S-134	P.1069	MUP	31+75	RT	R5-3-24	24 X 24			4															
S-135	P.1070	IR-77	190+50	CL	D10-5-18	18 X 60								1			1							
S-136	P.1070	NB IR-77	191+50	RT	E5-H1a-96	96 X 60		1		40										2				
S-137	P.1070	NB IR-77	192+00	RT	W3-5-48	48 X 48			16															
S-138	P.1070	RAMP D2	203+50	RT	W4-1R-48	48 X 48			16															
S-139	P.1070	SB IR-77	196+00	LT	R2-1-48	48 X 60			20															
S-140	P.1070	NB IR-77	196+00	RT	-	156 X 96		1			104								1		1			
					-	180 X 180					225											1		
					E1-H5P	108 X 30					22.5							1						
					-	192 X 120					160											1		
					E1-H5P	120 X 30					25							1						
S-141	P.1070	SB IR-77	196+50	LT	R2-1-48	48 X 60			20															
S-142	P.1070	RAMP D2	200+75	LT	R1-2-60	60 X 60			10.83															
S-143	P.1070	MUP	52+65	RT	R1-1-18	18 X 18			2.25															
S-144	P.1070	MUP	52+75	LT	R5-3-24	24 X 24			4															
S-145	P.1070	NB IR-77	188+00	RT	-	180 X 72		1			90										1			
					E1-H5P	108 X 30					22.5							1						
S-146	P.1070	RAMP D1	106+50	LT	R5-1-48	48 X 48			16															
					R5-1a-42	42 X 30			8.75															
S-147	P.1070	RAMP D1	106+50	RT	R5-1-48	48 X 48			16															
					R5-1a-42	42 X 30			8.75															
S-148	P.1070	RAMP D1	107+05	RT	D10-H5a-30	30 X 30			6.25															
S-149	P.1071	SB IR-77	199+00	RT	-	156 X 72		1			78										1			
					E1-H5P	120 X 30					25							1						
S-150	P.1071	NB IR-77	201+00	RT	-	192 X 120		2		160										2				
					E1-H5P	120 X 30				25								1						
S-151	P.1071	NB IR-77	205+00	RT	E5-H1c-48	48 x 84				28														
S-152	P.1071	IR-77	202+35	CL	D10-5-18	18 X 60								1			1							
S-153	P.1071	SB IR-77	206+00	LT	R1-2-60	60 X 60			10.83															
S-154	P.1071	RAMP E1	107+00	LT	R5-1-48	48 X 48			16															
					R5-1a-42	42 X 30			8.75															
S-155	P.1071	RAMP E1	107+00	RT	R5-1-48	48 X 48			16															
					R5-1a-42	42 X 30			8.75															
S-156	P.1071	RAMP E1	109+50	LT	W3-3-36	36 X 36			9															
S-157	P.1071	RAMP E1	109+50	RT	W3-3-36	36 X 36			9															
S-158	P.1071	RAMP E1	109+60	LT	R5-1-48	48 X 48			16															
					R5-1a-42	42 X 30			8.75															
S-159	P.1071	RAMP E1	109+60	RT	R5-1-48	48 X 48			16															
					R5-1a-42	42 X 30			8.75															
S-160	P.1071	RAMP E1	110+50	LT	R3-H8bq-36	36 X 30			7.5															
S-161	P.1071	RAMP E1	110+50	RT	R3-H8bq-36	36 X 30			7.5															
S-162	P.1071	BROADWAY AVE	7+15	LT	R1-1-48	48 X 48			16															
					R6-1R-54	54 X 18			6.75															
					R6-1L-54	54 X 18			6.75															
					R5-1-48	48 x 48			16															
S-163	P.1071	BROADWAY AVE	7+60	LT	R1-1-48	48 X 48			16															
					R6-1R-54	54 X 18			6.75															
					R6-1L-54	54 X 18			6.75															
					R5-1-48	48 x 48			16															
S-164	P.1071	RAMP E1	113+15	RT	R6-1R-54	54 X 18			6.75															
					R6-1L-54	54 X 18			6.75															
					R5-1-48	48 x 48			16															
S-165	P.1071	RAMP E1	113+30	LT	R6-1R-54	54 X 18			6.75															
					R6-1L-54	54 X 18			6.75															
					R5-1-48	48 x 48			16															
TOTALS CARRIED TO GENERAL SUMMARY								6	454	253	752			2			2	5	1	4	3	2			

Preliminary Plans - Not For Reference Only

SIGNING SUBSUMMARY

CUY-77-11.41 - PART 1

MODEL: TS019 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:43:29 PM RETTIG, JACOB
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Traffic\Sheets\105743_TS010.dgn

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 04-22-26
PROJECT ID 105743
SHEET P.1042 TOTAL 1269

SIGNING SUBSUMMARY

REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 GROUND MOUNTED SUPPORT, NO. 2 POST FT	630 GROUND MOUNTED SUPPORT, NO. 3 POST FT	630 GROUND MOUNTED SUPPORT, NO. 4 POST FT	630 GROUND MOUNTED SUPPORT, NO. 6 POST FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4X7.7 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W6X9 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W8X18 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W12X30 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12 FT	630 ONE WAY SUPPORT, NO. 2 POST FT	630 ONE WAY SUPPORT, NO. 3 POST FT	630 SIGN POST REFLECTOR EACH	630 BREAKAWAY STRUCTURAL BEAM CONNECTION EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 6 EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 10 EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 12 EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 1 EACH	630 OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 2 EACH	630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED EACH
S-166	P.1071	RAMP E1	113+30	LT	R3-H8be-30	30 X 30		13																		
S-167	P.1071	RAMP E1	112+50	RT	D3-H5-108	108 X 48						33							2							
					PRIVATE	36 X 48																				
S-168	P.1072	IR-77	211+50	CL	D10-5-18	18 X 60																				
S-169	P.1072	NB IR-77	213+00	RT	-	156 X 96																			1	
					-	180 X 180																				
					E1-H59	108 X 30																				
S-170	P.1072	NB IR-77	219+20	RT	E5-H1c-48	48 X 84			35																	
S-171	P.1072	IR-77	220+00	CL	D10-5-18	18 X 60																				
S-172	P.1072	RAMP J1	114+16	CL	-	36 X 36																				
TOTALS CARRIED TO GENERAL SUMMARY								13	35			33							2						1	

Preliminary Plans - For Reference Only

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 04-22-26
PROJECT ID 105743
SHEET P.1043 TOTAL 1269

CUY-77-11.41 - PART 1

MODEL: TS020 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:43:29 PM RETTIG, JACOB
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REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 12 EACH	625 GROUND ROD EACH	630 SIGN, FLAT SHEET SF	630 SIGN, GROUND MOUNTED EXTRUSHEET SF	630 SIGN, OVERHEAD EXTRUSHEET SF	630 SIGN, OVERLAY SF	630 SIGN, DOUBLE FACED, STREET NAME EACH	630 SIGN, DOUBLE FACED, MILE MARKER EACH	630 MAINLINE REFERENCE MARKER EACH	630 RAMP REFERENCE MARKER EACH	630 CONCRETE MEDIAN BARRIER SIGN BRACKET EACH	630 SIGN BACKING ASSEMBLY EACH	630 CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION, TYPE TC-21.50 EACH	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION EACH	630 RIGID OVERHEAD SIGN SUPPORT FOUNDATION EACH	630 SIGN ATTACHMENT ASSEMBLY EACH	630 SIGN SUPPORT ASSEMBLY, BARRIER MOUNTED EACH	630 SIGN HANGER ASSEMBLY, MAST ARM EACH
S-166	P.1071	RAMP E1	113+30	LT	R3-H8be-30	30 X 30			6.25															
S-167	P.1071	RAMP E1	112+50	RT	D3-H5-108	108 X 48				32										2				
					PRIVATE	36 X 48			12									1						
S-168	P.1072	IR-77	211+50	CL	D10-5-18	18 X 60									1		1							
S-169	P.1072	NB IR-77	213+00	RT	-	156 X 96		1			104								1		1			
					-	180 X 180					225											1		
					E1-H59	108 X 30					22.5							1						
S-170	P.1072	NB IR-77	219+20	RT	E5-H1c-48	48 X 84				28														
S-171	P.1072	IR-77	220+00	CL	D10-5-18	18 X 60									1		1							
S-172	P.1072	RAMP J1	114+16	CL	-	36 X 36						9												
TOTALS CARRIED TO GENERAL SUMMARY								1	19	60	352	9			2		2	2	1	2	1	1		

Preliminary Plans - For Reference Only

SIGNING SUBSUMMARY

CUY-77-11.41 - PART 1

MODEL: TS021 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:43:30 PM RETTIG, JACOB
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DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 04-22-26
PROJECT ID 105743
SHEET P.1044 TOTAL 1269

REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION EACH	630 REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL EACH	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL EACH	630 REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL EACH	630 REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-12.30 EACH	630 REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-15.115 EACH	630 REMOVAL OF MISCELLANEOUS TRAFFIC CONTROL ITEM, MEDIAN FOUNDATION EACH
R-1	P.1061	NB IR-77	77+75	RT			1			2						
R-2	P.1061	SB IR-77	78+00	LT								1		1		
R-3	P.1061	SB IR-77	78+60	LT									3			
R-4	P.1061	GRANT AVE	18+70	RT								2		1		
R-5	P.1061	GRANT AVE	18+70	LT								2		1		
R-6	P.1061	RAMP A3	300+50	RT			3			2						
R-7	P.1061	RAMP A3	300+50	LT			4			2						
R-8	P.1061	RAMP A3	300+90	LT			3			2						
R-9	P.1061	RAMP A3	303+50	LT					1		2					
R-10	P.1061	RAMP A4	403+00	RT			1			1						
R-11	P.1062	RAMP A3	306+50	RT					1		2					
R-12	P.1062	SB IR-77	85+70	LT								2			1	
R-13	P.1062	NB IR-77	89+00	RT								2			1	
R-14	P.1062	NB IR-77	93+00	RT			3			2						
R-15	P.1062	RAMP A3	304+00	LT			3			2						
R-16	P.1062	RAMP A3	304+00	RT			3			2						
R-17	P.1062	RAMP A3	306+00	LT			1			2						
R-18	P.1062	RAMP A3	306+50	LT			2			2						
R-19	P.1062	RAMP A3	306+50	RT			2			2						
R-20	P.1062	NB IR-77	85+50	RT			1			2						
R-21	P.1062	NB IR-77	87+50	RT			1			2						
R-22	P.1063	SB IR-77	97+50	LT								1		1		
R-23	P.1063	SB IR-77	97+50	LT			1			2						
R-24	P.1063	IR-77	104+50	CL			2			1						
R-25	P.1063	NB IR-77	104+00	RT								2			1	
R-26	P.1063	SB IR-77	104+50	LT			1			1						
R-27	P.1063	SB IR-77	106+00	LT			1			2						
R-28	P.1063	RAMP B1	102+30	RT			1			1						
R-29	P.1064	NB IR-77	107+50	RT					1		2					
R-30	P.1064	SB IR-77	109+00	LT			1			2						
R-31	P.1064	SB IR-77	110+00	LT					1		2					
R-32	P.1064	NB IR-77	110+00	RT					1		2					
R-33	P.1064	SB IR-77	113+50	LT					1		2					
R-34	P.1064	NB IR-77	116+00	RT			1			2						
R-35	P.1064	RAMP B4	404+00	RT				1		4						
R-36	P.1064	IR-77	117+00	CL			2			1						
R-37	P.1064	NB IR-77	117+00	RT								1		1		
R-38	P.1064	SB IR-77	119+50	LT					1		2					
R-39	P.1064	RAMP B1	105+10	RT			1			2						
R-40	P.1064	RAMP B1	105+10	RT			2			2						
R-41	P.1064	RAMP B1	105+10	RT			2			2						
R-42	P.1064	RAMP B1	107+00	LT			1			2						
R-43	P.1064	RAMP B1	107+00	RT					1		2					
R-44	P.1064	RAMP B1	107+50	RT			2			1						
R-45	P.1064	RAMP B1	107+50	LT			2			1						
R-46	P.1064	RAMP B1	108+00	RT								3		1		
R-47	P.1064	RAMP B1	108+00	RT									2			
R-48	P.1064	RAMP B1	108+00	RT									1			
R-49	P.1064	RAMP B1	108+00	RT									1			
R-50	P.1064	RAMP B4	400+50	LT								2		1		
R-51	P.1064	RAMP B4	401+00	RT			1			1						
R-52	P.1064	RAMP B4	403+00	RT			1			1						
R-53	P.1064	RAMP B4	405+00	RT			1			2						
R-54	P.1064	RAMP B2	204+00	LT			1			1						
R-55	P.1064	RAMP B2	206+00	RT								1		1		
TOTALS CARRIED TO GENERAL SUMMARY							52	1	8	56	16	19	7	8	3	

Preliminary Plans - Not For Reference Only

SIGNING SUBSUMMARY

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER
ANC

REVIEWER
JAR 04-22-26

PROJECT ID
105743

SHEET P.1045 TOTAL 1269

CUY-77-11.41 - PART 1

MODEL: TS022 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:43:30 PM RETTIG, JACOB
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REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)		630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION EACH	630 REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL EACH	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL EACH	630 REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL EACH	630 REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-12.30 EACH	630 REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-15.115 EACH	630 REMOVAL OF MISCELLANEOUS TRAFFIC CONTROL ITEM, MEDIAN FOUNDATION EACH
R-56	P.1064	RAMP B3	300+80	LT, RT				6			4						
R-57	P.1064	RAMP B3	300+80	LT, RT				2			2						
R-58	P.1064	RAMP B3	301+60	LT				1			2						
R-59	P.1064	RAMP B3	302+50	LT									3		1		
R-60	P.1064	RAMP B3	302+50	LT, RT				4			2			2			
R-61	P.1064	RAMP B3	302+50	LT, RT				4						2			
R-62	P.1064	RAMP B3	303+00	LT				2			1						
R-63	P.1064	RAMP B3	303+00	RT				2			1						
R-64	P.1064	RAMP B3	304+50	LT						1		2					
R-65	P.1064	RAMP B3	305+50	LT				1			1						
R-66	P.1064	RAMP B3	305+80	LT				1			2						
R-67	P.1064	RAMP B3	306+00	LT				2			2						
R-68	P.1064	RAMP B3	306+00	RT				2			2						
R-69	P.1065	IR-77	127+50	CL				2			1						
R-70	P.1065	NB IR-77	132+90	RT				1			2						
R-71	P.1065	RAMP C1	102+00	RT				1			2						
R-72	P.1065	NB IR-77	131+00	RT									3			1	
R-73	P.1065	SB IR-77	121+50	LT									1			1	
R-74	P.1066	IR-77	137+50	CL				2			1						
R-75	P.1066	NB IR-77	139+50	RT				1			2						
R-76	P.1066	NB IR-77	141+00	RT									1			1	
R-77	P.1066	NB IR-77	142+80	LT				1			3						
R-77A	P.1066	NB IR-77	137+50	RT				1			2						
R-78	P.1066	NB IR-77	138+00	RT				2			1						
R-79	P.1066	RAMP C1	105+50	LT				2			2						
R-80	P.1066	RAMP C1	105+50	RT				3			4						
R-81	P.1066	RAMP C1	107+00	RT				1			2						
R-82	P.1066	RAMP C1	108+00	RT				1			2						
R-83	P.1066	RAMP C1	109+00	RT						1		2					
R-84	P.1066	RAMP C1	110+00	RT				2			2						
R-85	P.1066	RAMP C1	110+00	LT				2			2						
R-86	P.1066	RAMP C1	111+00	RT				3			2						
R-87	P.1066	RAMP C1	111+00	LT				3			2						
R-88	P.1066	RAMP C1	112+00	RT				2			1						
R-89	P.1066	RAMP C1	112+00	LT				2			2						
R-90	P.1066	RAMP C1	112+00	RT				2			2						
R-91	P.1066	RAMP C1	112+00	RT				1			1						
R-92	P.1066	RAMP C3	300+30	LT									2		1		
R-93	P.1066	RAMP C3	301+50	RT				1			1						
R-94	P.1066	RAMP C3	303+50	RT				1			1						
R-95	P.1067	SB IR-77	150+50	LT				1			2						
R-96	P.1067	SB IR-77	152+50	LT									2			1	
R-97	P.1067	NB IR-77	157+00	RT				1			2						
R-98	P.1067	RAMP C2	204+00	RT				3			2						
R-99	P.1067	RAMP C2	203+00	LT				3			2						
R-100	P.1067	RAMP C2	203+00	RT				2			2						
R-101	P.1067	RAMP C2	204+50	LT				1			2						
R-102	P.1067	NB IR-77	149+50	RT				1			2						
R-103	P.1068	NB IR-77	163+00	RT									2			1	
R-104	P.1068	SB IR-77	172+00	LT									2			1	
R-105	P.1068	SB IR-77	172+00	LT										3			
R-106	P.1068	NB IR-77	172+00	RT				2			2						
R-107	P.1068	SB IR-77	171+00	LT				1			1						
R-108	P.1069	NB IR-77	177+00	RT									1			1	
R-109	P.1069	SB IR-77	181+00	LT				1			2						
R-110	P.1069	NB IR-77	175+00	RT				1			1						
TOTALS CARRIED TO GENERAL SUMMARY								81		2	79	4	17	7	2	7	

Preliminary Plans - Not For Reference Only

MODEL: TS023 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:43:30 PM RETTIG, JACOB
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CUY-77-11.41 - PART 1

SIGNING SUBSUMMARY

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER
ANC

REVIEWER
JAR 04-22-26

PROJECT ID
105743

SHEET P.1046 TOTAL 1269

REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)		630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION EACH	630 REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL EACH	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL EACH	630 REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL EACH	630 REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-12.30 EACH	630 REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-15.115 EACH	630 REMOVAL OF MISCELLANEOUS TRAFFIC CONTROL ITEM, MEDIAN FOUNDATION EACH
R-111	P.1069	SB IR-77	176+50	LT				1			1						
R-112	P.1070	IR-77	191+00	CL													1
R-113	P.1070	NB IR-77	191+50	RT						1		2					
R-114	P.1070	NB IR-77	192+00	RT				1			2						
R-115	P.1070	SB IR-77	192+50	LT				1			2						
R-116	P.1070	SB IR-77	196+00	LT				1			2						
R-117	P.1070	NB IR-77	196+50	RT				1			2						
R-118	P.1070	NB IR-77	197+00	RT									3			1	
R-119	P.1070	RAMP D2	200+75	LT				1			2						
R-120	P.1070	RAMP D1	101+25	RT									1		1		
R-121	P.1070	RAMP D1	106+50	LT				2			2						
R-122	P.1070	RAMP D1	106+50	RT				2			2						
R-123	P.1070	RAMP D1	106+90	RT				1			1						
R-124	P.1071	SB IR-77	199+25	LT									1		1		
R-125	P.1071	IR-77	201+00	CL				2			1						
R-126	P.1071	NB IR-77	203+75	RT									3			1	
R-127	P.1071	NB IR-77	205+00	RT						1		2					
R-128	P.1071	NB IR-77	206+00	RT						1		2					
R-129	P.1071	SB IR-77	206+00	LT				1			2						
R-130	P.1071	RAMP E1	107+00	RT				2			2						
R-131	P.1071	RAMP E1	107+00	LT				2			2						
R-132	P.1071	RAMP E1	109+50	RT				1			2						
R-133	P.1071	RAMP E1	109+50	LT				1			2						
R-134	P.1071	RAMP E1	110+50	RT				3			2						
R-135	P.1071	RAMP E1	110+50	LT				3			2						
R-136	P.1071	RAMP E1	111+50	RT				1			1						
R-137	P.1071	RAMP E1	111+50	LT				1			1						
R-138	P.1071	BROADWAY AVE	7+50	LT				3			2						
R-139	P.1071	RAMP E1	112+50	RT					1	1		2					
R-140	P.1071	BROADWAY AVE	7+50	LT				3			2						
R-141	P.1071	RAMP E1	113+50	LT				2			2						
R-142	P.1071	RAMP E1	113+50	RT				2			2						
R-143	P.1072	NB IR-77	213+00	RT									2			1	
R-144	P.1072	NB IR-77	219+00	RT				1			1						
R-145	P.1072	IR-77	219+50	CL													1
R-146	P.1072	IR-77	221+50	CL				2			1						
R-147	P.1072	IR-77	211+50	CL				2			1						
TOTALS CARRIED TO GENERAL SUMMARY								43	1	4	44	8	10		2	3	2

Preliminary Plans - Not For Reference Only

SIGNING SUBSUMMARY

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 04-22-26
PROJECT ID 105743
SHEET P.1047 TOTAL 1269

CUY-77-11.41 - PART 1

MODEL: TS024 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:43:31 PM RETTIG, JACOB
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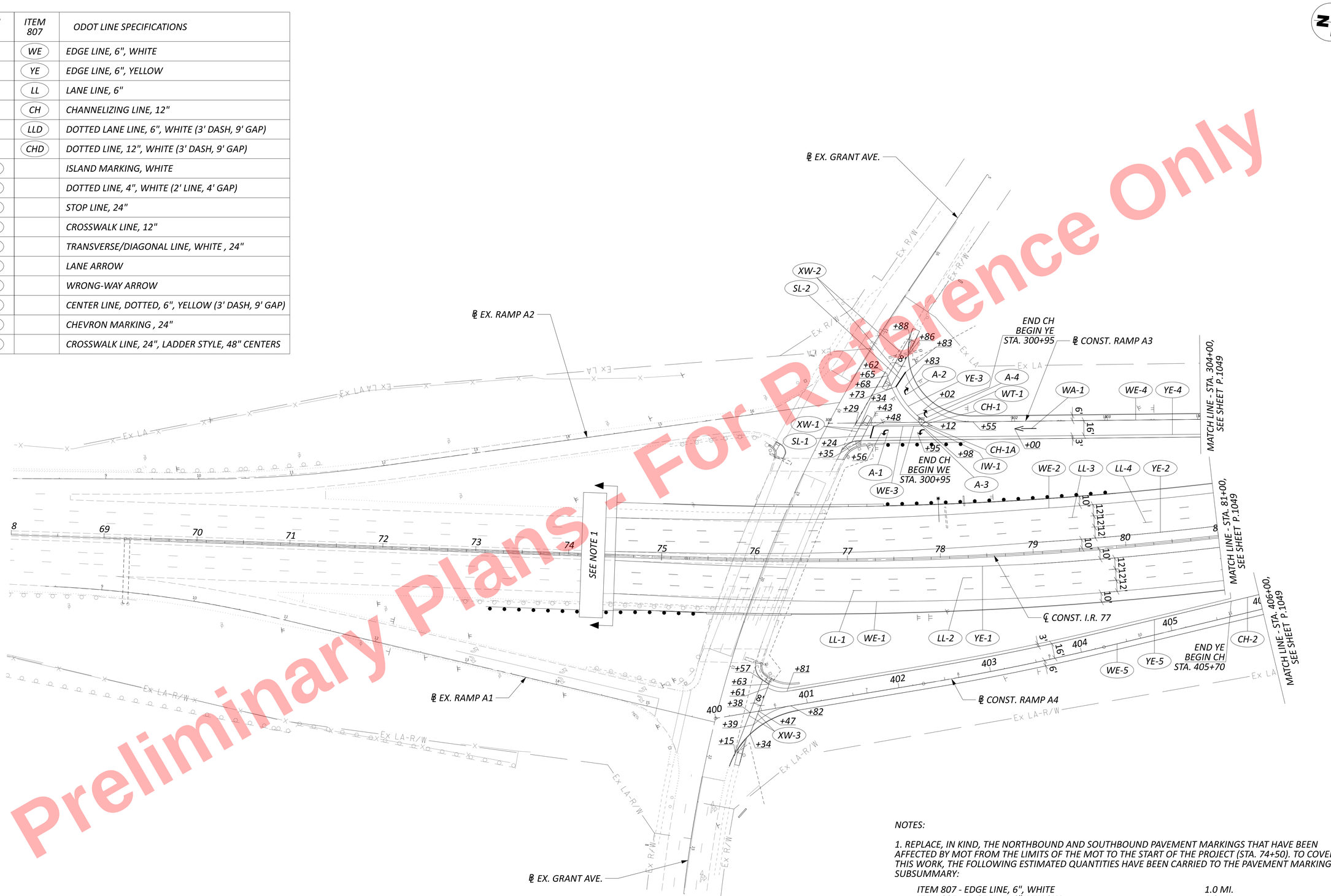
ITEM 646	ITEM 807	ODOT LINE SPECIFICATIONS
	WE	EDGE LINE, 6", WHITE
	YE	EDGE LINE, 6", YELLOW
	LL	LANE LINE, 6"
	CH	CHANNELIZING LINE, 12"
	LLD	DOTTED LANE LINE, 6", WHITE (3' DASH, 9' GAP)
	CHD	DOTTED LINE, 12", WHITE (3' DASH, 9' GAP)
IW		ISLAND MARKING, WHITE
DW		DOTTED LINE, 4", WHITE (2' LINE, 4' GAP)
SL		STOP LINE, 24"
XW		CROSSWALK LINE, 12"
WT		TRANSVERSE/DIAGONAL LINE, WHITE , 24"
A		LANE ARROW
WA		WRONG-WAY ARROW
CLD		CENTER LINE, DOTTED, 6", YELLOW (3' DASH, 9' GAP)
CV		CHEVRON MARKING , 24"
XWL		CROSSWALK LINE, 24", LADDER STYLE, 48" CENTERS



SEE SHEETS P.1061 - P.1073 FOR SIGNING PLAN.

NOTES:

1. REPLACE, IN KIND, THE NORTHBOUND AND SOUTHBOUND PAVEMENT MARKINGS THAT HAVE BEEN AFFECTED BY MOT FROM THE LIMITS OF THE MOT TO THE START OF THE PROJECT (STA. 74+50). TO COVER THIS WORK, THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE PAVEMENT MARKING SUBSUMMARY:

ITEM 807 - EDGE LINE, 6", WHITE	*1.0 MI.*
ITEM 807 - EDGE LINE, 6", YELLOW	*1.0 MI.*
ITEM 807 - LANE LINE, 6"	*2.0 MI.*
ITEM 807 - CHANNELIZING LINE, 12"	*800 FT.*
ITEM 807 - DOTTED LINE, 6", WHITE (3' DASH, 9' GAP)	*1500 FT.*
ITEM 850 - GROOVING FOR 6" RECESSED PAVEMENT MARKING	*4.28 MI.*
ITEM 850 - GROOVING FOR 12" RECESSED PAVEMENT MARKING	*800 FT.*

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING PLAN - IR-77
IR-77 STA. 68+00 TO STA. 81+00

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER	JAR
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET	1
TOTAL	28
SHEET	P.1048
TOTAL	1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:43:55 PM RETTIG, JACOB
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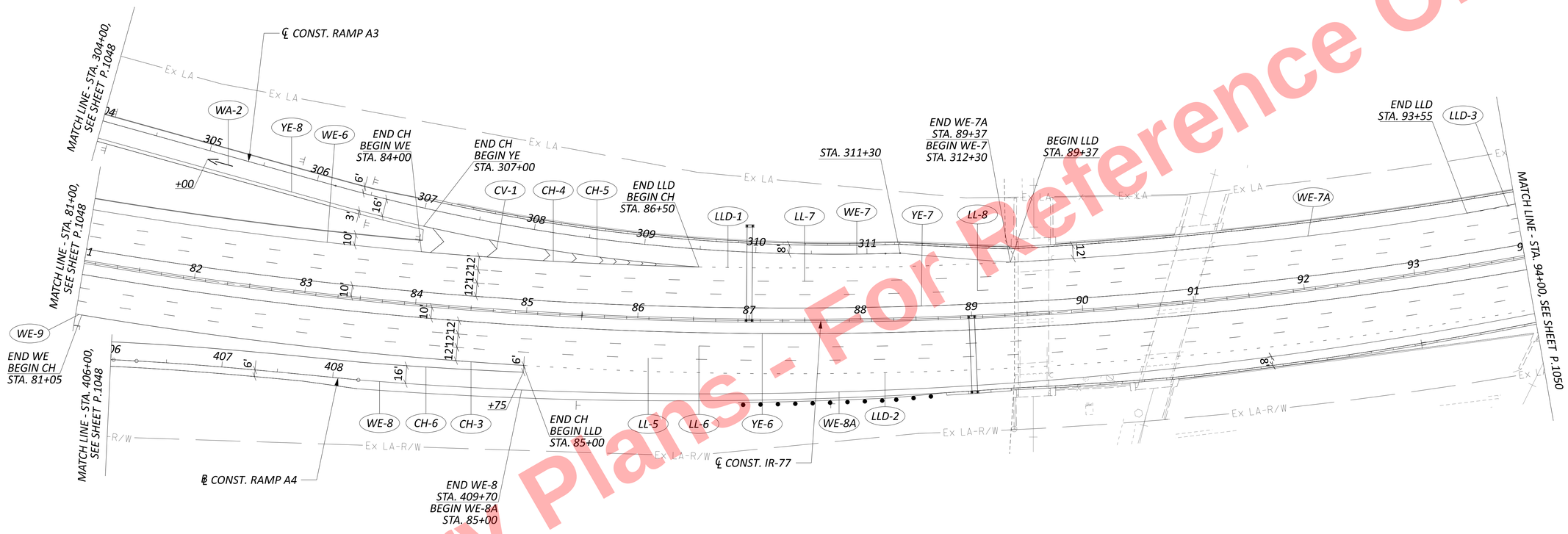

SEE SHEET P.1048 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.1061 -P.1073 FOR SIGNING PLAN.

HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING PLAN - IR-77
IR-77 STA. 81+00 TO STA. 94+00

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER JAR
REVIEWER DKA 04-24-26
PROJECT ID 105743
SUBSET 2 | TOTAL 28
SHEET P.1049 | TOTAL 1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:44:04 PM RETTIG, JACOB
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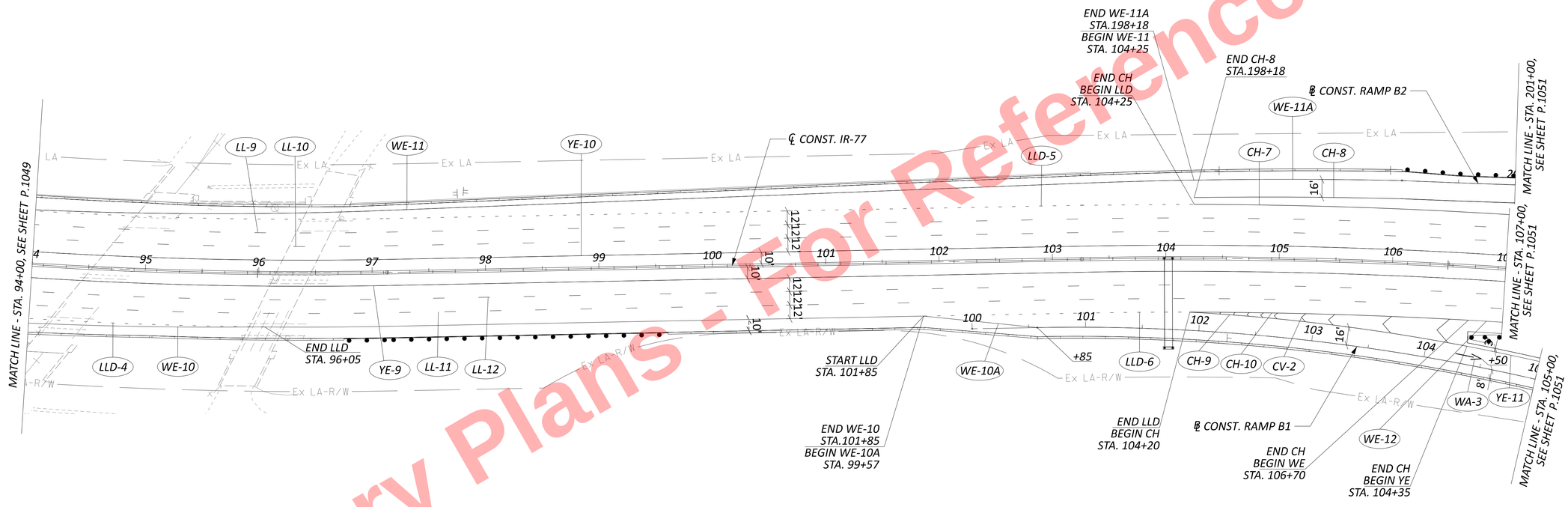
For Reference Only
Preliminary Plans - Not



Preliminary Plans - For Reference Only

SEE SHEET P.1048 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.1061 -P.1073 FOR SIGNING PLAN.

HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING PLAN - IR-77
IR-77 STA. 94+00 TO STA. 107+00

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER	JAR
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET / TOTAL	3 / 28
SHEET / TOTAL	P.1050 / 1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:44:10 PM RETTIG, JACOB
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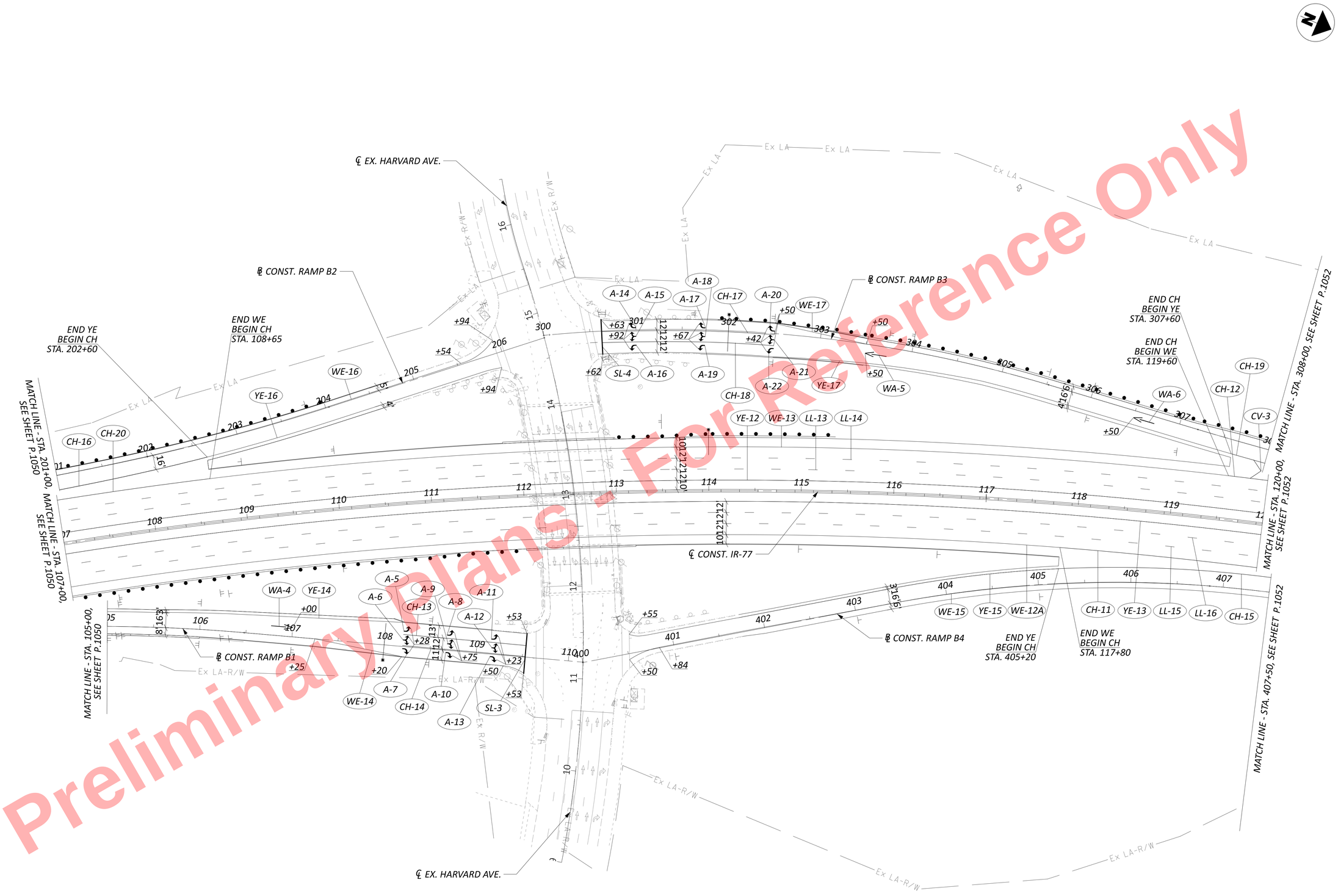

Preliminary Plans - For Reference Only

SEE SHEET P.1048 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.1061 - P.1073 FOR SIGNING PLAN.

HORIZONTAL SCALE IN FEET 0 25 50 100

PAVEMENT MARKING PLAN - IR-77
IR-77 STA. 107+00 TO STA. 120+00

DESIGN AGENCY: Lanham Engineering LLC

DESIGNER	JAR
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET	4
TOTAL	28
SHEET	P.1051
TOTAL	1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:44:15 PM RETTIG, JACOB
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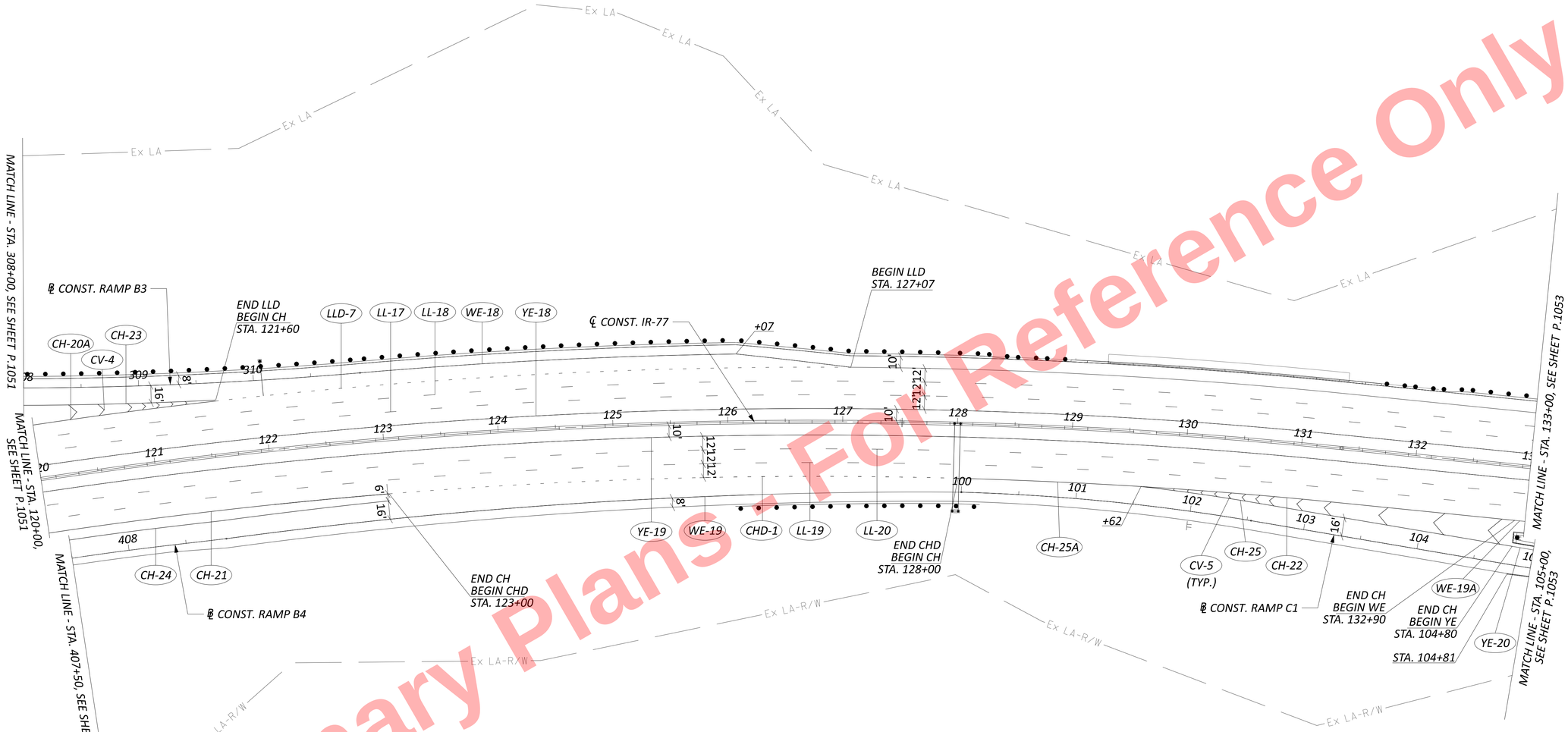

Preliminary Plans - For Reference Only

SEE SHEET P.1048 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.1061 -P.1073 FOR SIGNING PLAN.

HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING PLAN - IR-77
IR-77 STA. 120+00 TO STA. 133+00

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER	JAR
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET	5
TOTAL	28
SHEET	P.1052
TOTAL	1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:44:21 PM RETTIG, JACOB
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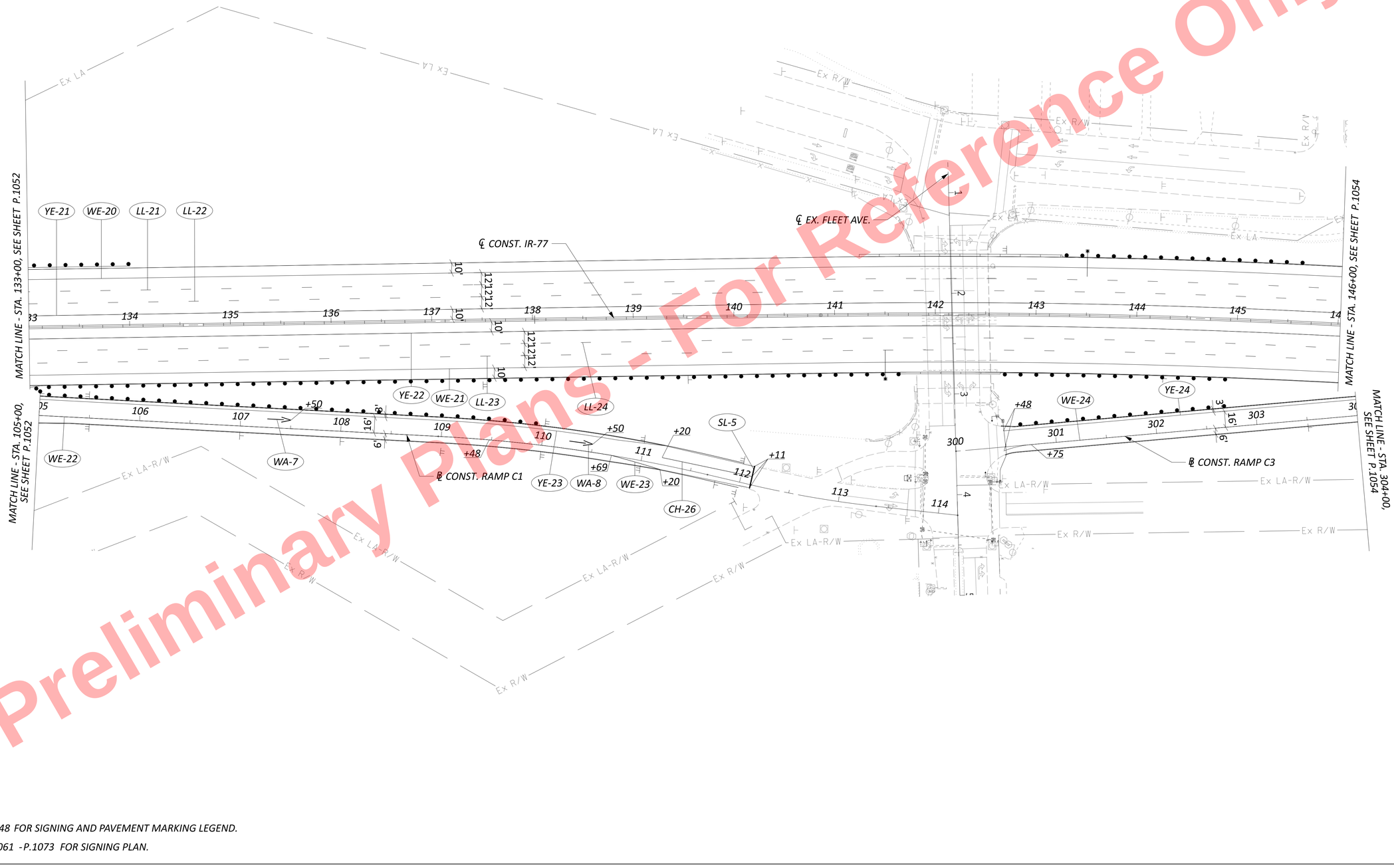

Preliminary Plans - For Reference Only

SEE SHEET P.1048 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.1061 -P.1073 FOR SIGNING PLAN.

HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING PLAN - IR-77
IR-77 STA. 133+00 TO STA. 146+00

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER	JAR
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET	6
TOTAL	28
SHEET	P.1053
TOTAL	1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:44:28 PM RETTIG, JACOB
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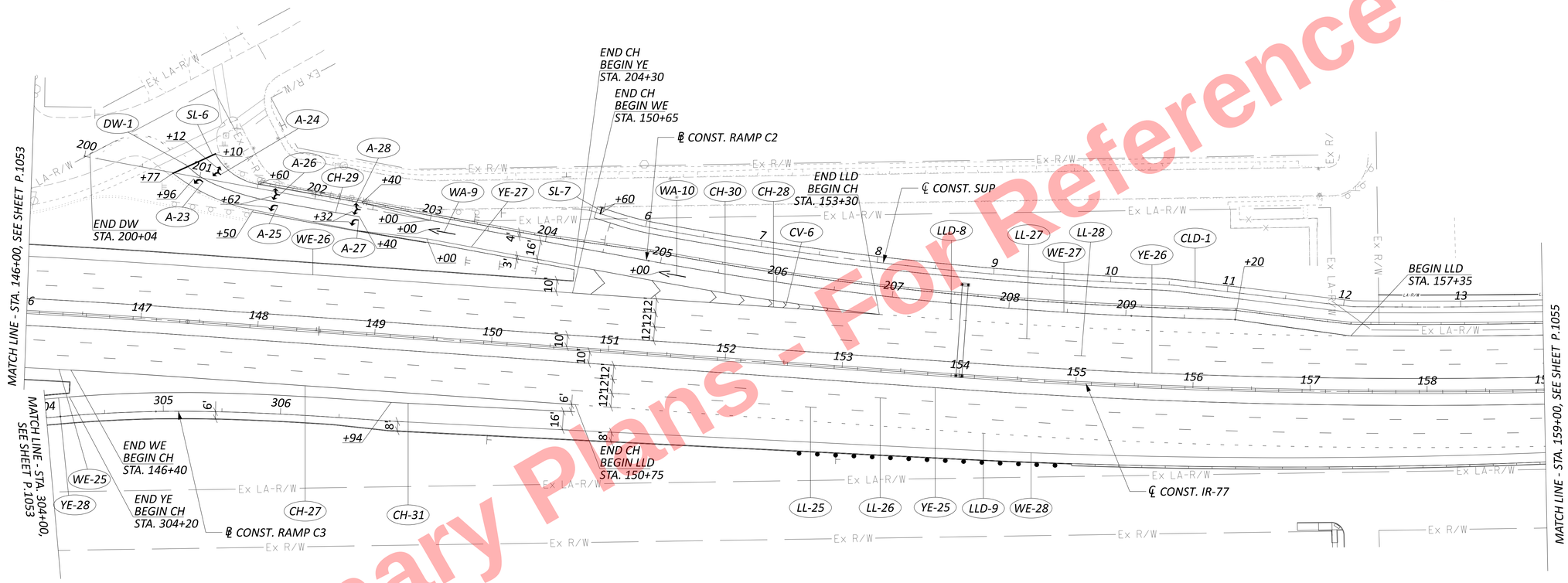

SEE SHEET P.1048 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.1061 -P.1073 FOR SIGNING PLAN.

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING PLAN - IR-77
IR-77 STA. 146+00 TO STA. 159+00

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER JAR
REVIEWER DKA 04-24-26
PROJECT ID 105743
SUBSET 7 | TOTAL 28
SHEET P.1054 | TOTAL 1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:44:35 PM RETTIG, JACOB
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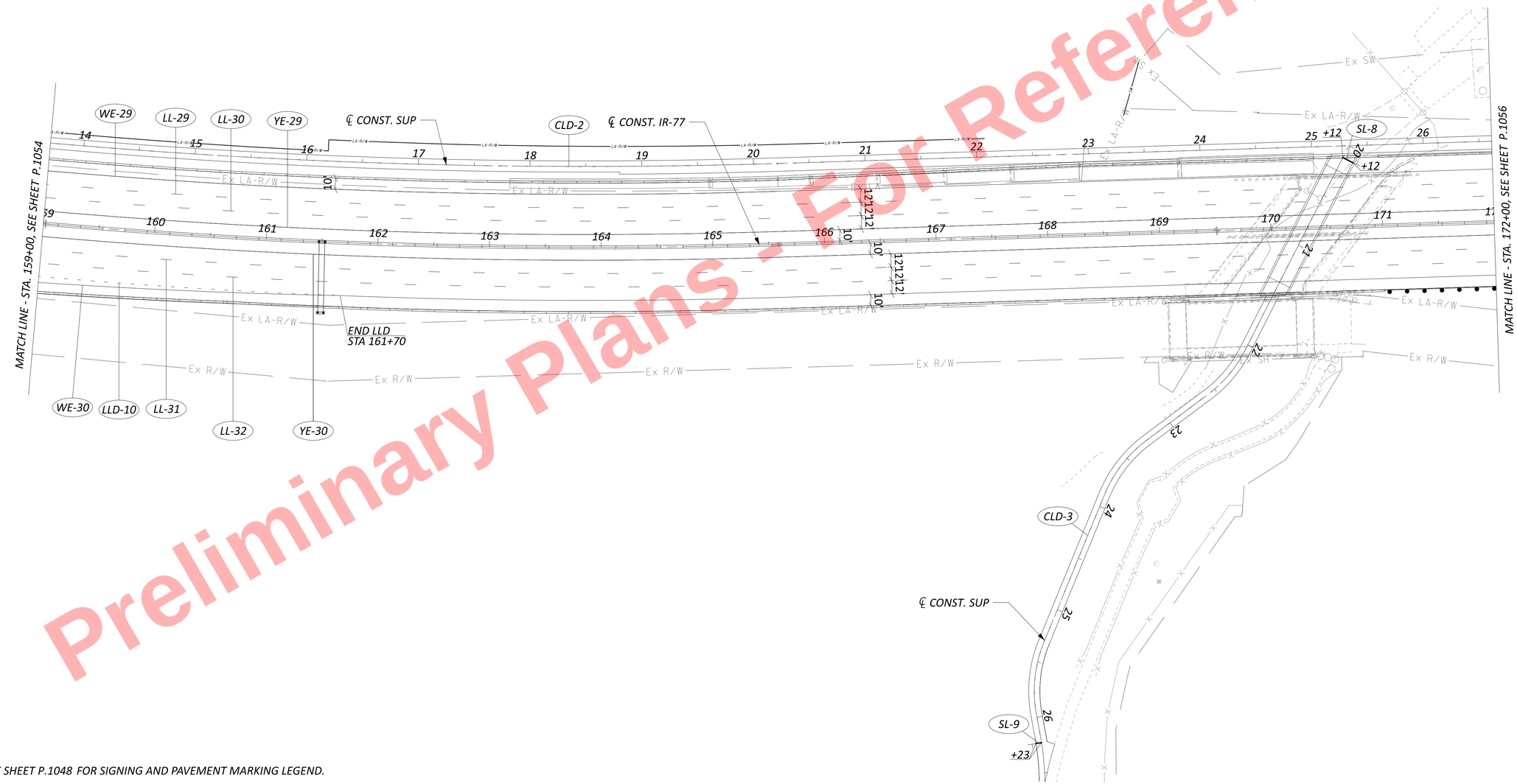

Preliminary Plans - For Reference Only

SEE SHEET P.1048 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.1061 -P.1073 FOR SIGNING PLAN.

HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING PLAN - IR-77
IR-77 STA. 159+00 TO STA. 172+00

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER	JAR
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET / TOTAL	8 / 28
SHEET / TOTAL	P.1055 / 1269

CUY-77-11.41 - PART 1
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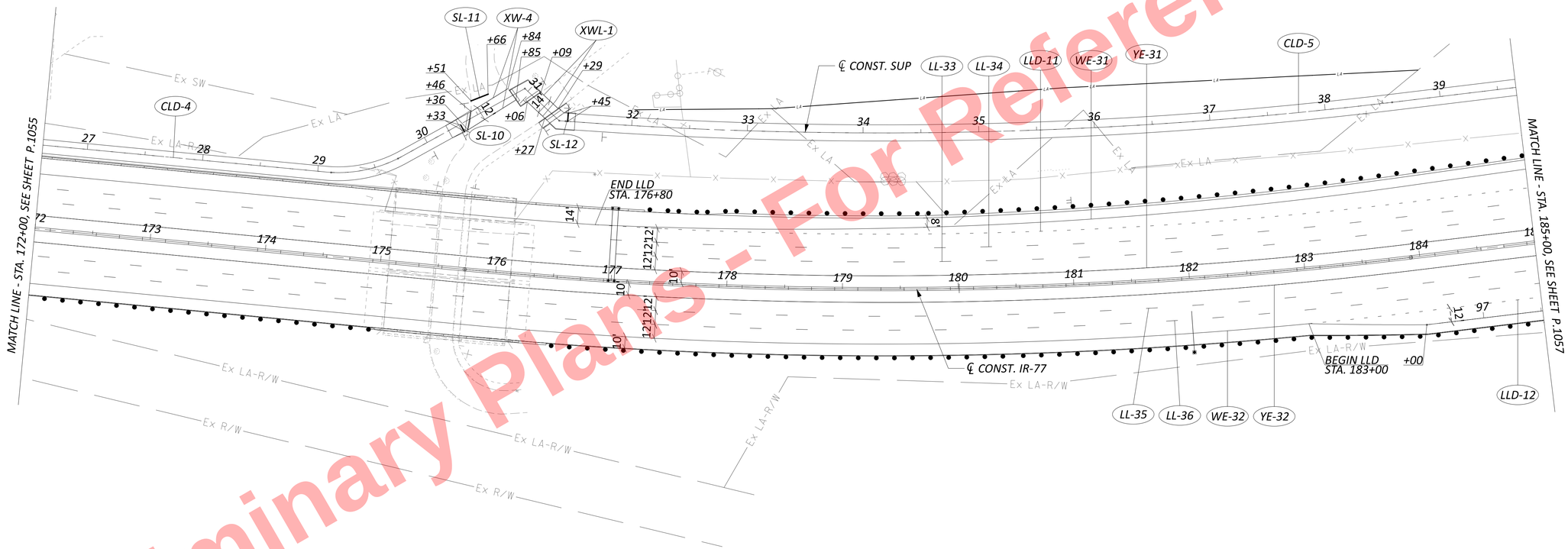

SEE SHEET P.1048 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.1061 -P.1073 FOR SIGNING PLAN.

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING PLAN - IR-77
IR-77 STA. 172+00 TO STA. 185+00

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER	JAR
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET	9
TOTAL	28
SHEET	P.1056
TOTAL	1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:44:49 PM RETTIG, JACOB
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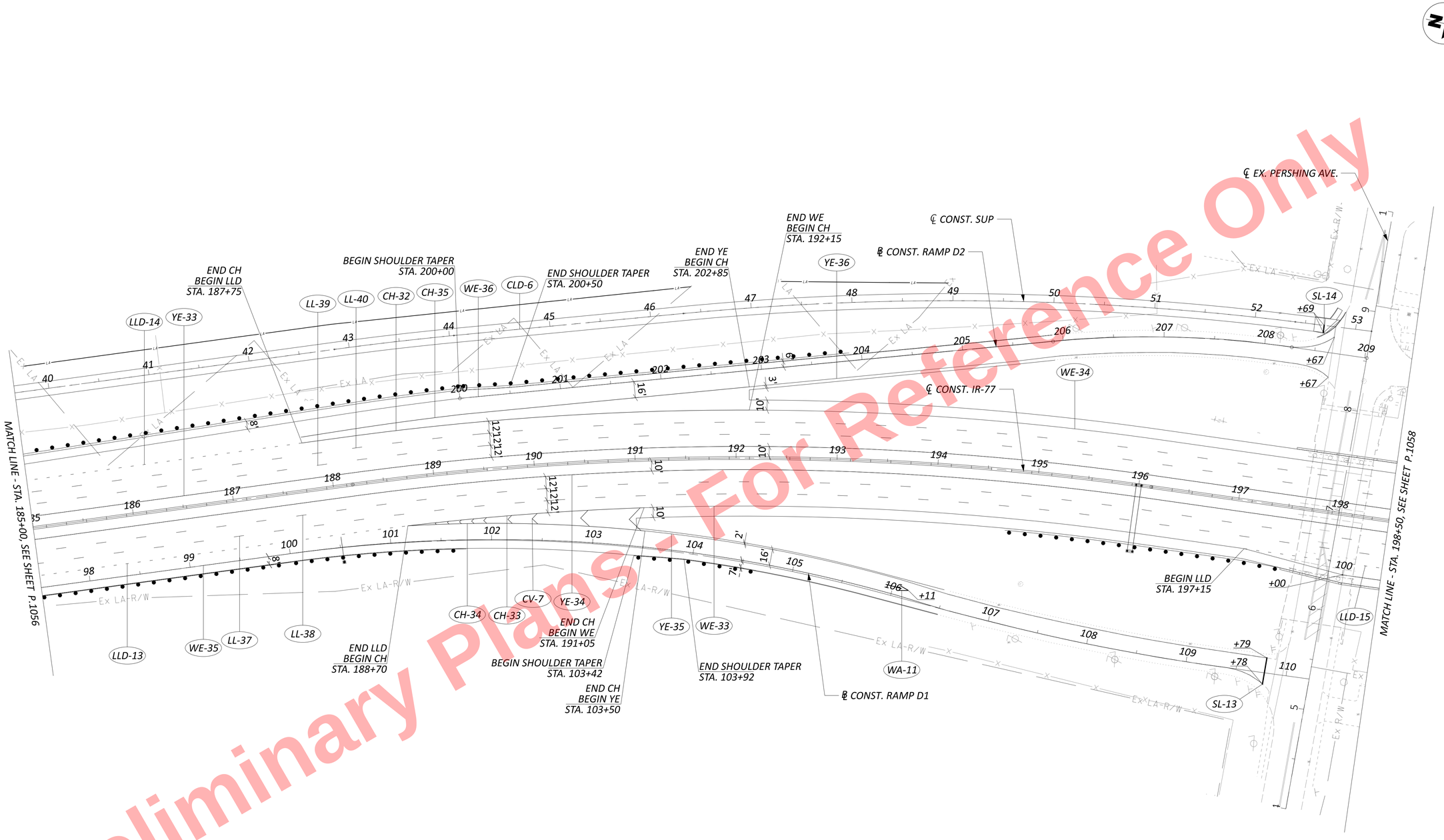

Preliminary Plans - For Reference Only

SEE SHEET P.1048 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.1061 -P.1073 FOR SIGNING PLAN.

HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING PLAN - IR-77
IR-77 STA. 185+00 TO STA. 198+50

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER	JAR
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET / TOTAL	10 / 28
SHEET / TOTAL	P.1057 / 1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:44:56 PM RETTIG, JACOB
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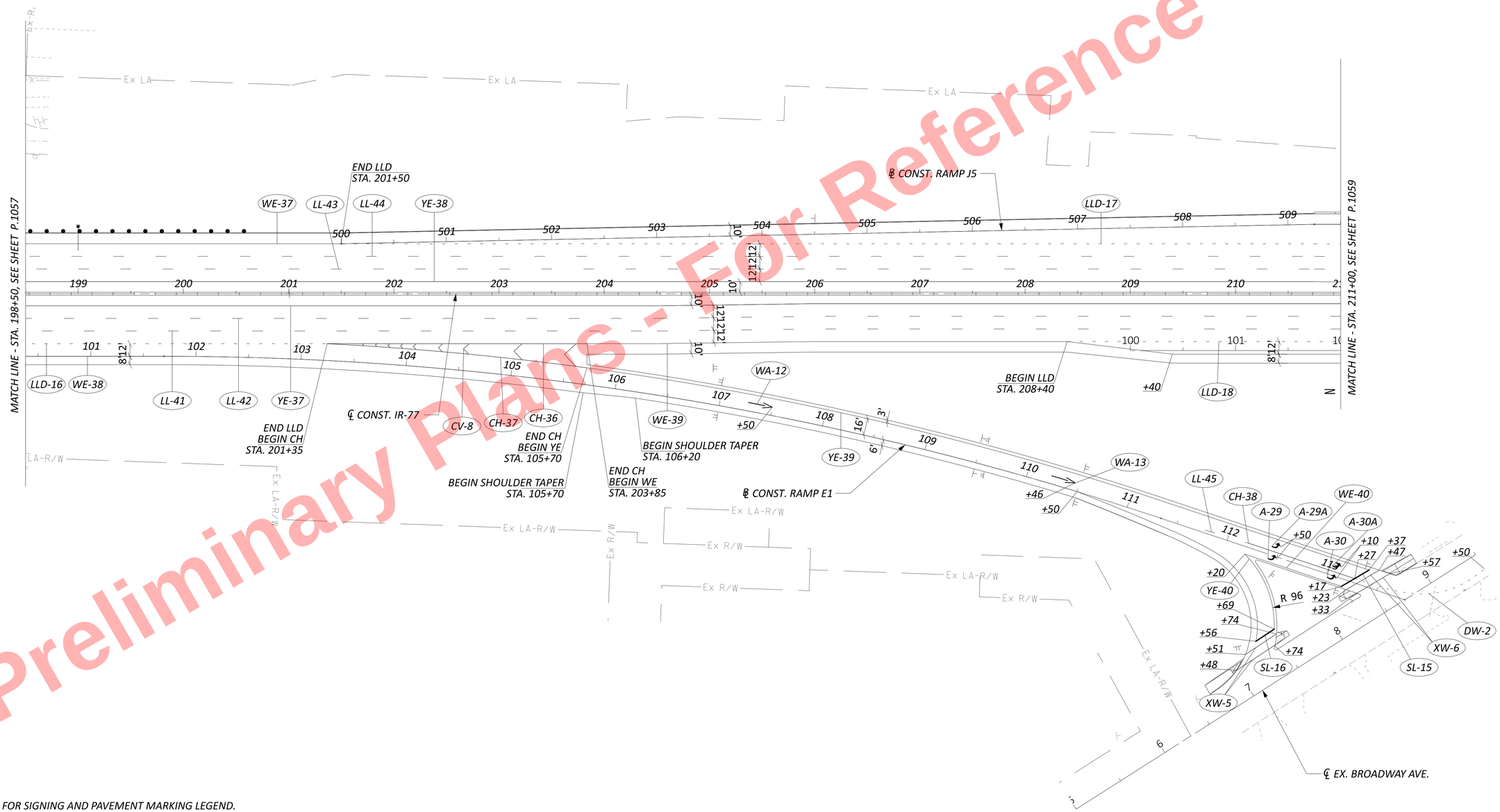

SEE SHEET P.1048 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.1061 - P.1073 FOR SIGNING PLAN.

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING PLAN - IR-77
IR-77 STA. 198+50 TO STA. 211+00

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER	JAR
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET	11
TOTAL	28
SHEET	P.1058
TOTAL	1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:45:02 PM RETTIG, JACOB
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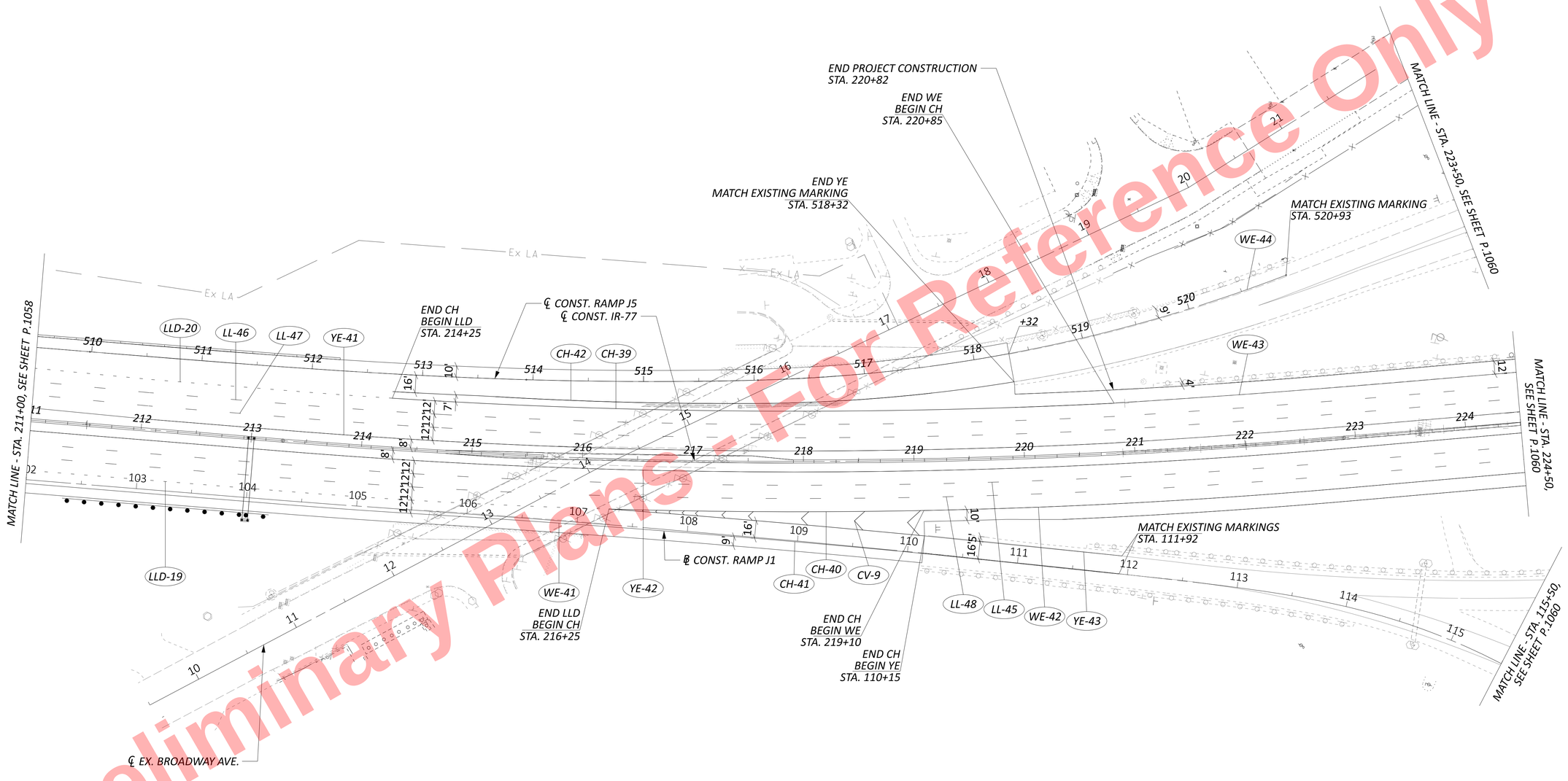

Preliminary Plans - For Reference Only

SEE SHEET P.1048 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.1061 - P.1073 FOR SIGNING PLAN.

HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING PLAN - IR-77
IR-77 STA. 211+00 TO STA. 224+50

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER JAR
REVIEWER DKA 04-24-26
PROJECT ID 105743
SUBSET 12 TOTAL 28
SHEET P.1059 TOTAL 1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:45:08 PM RETTIG, JACOB
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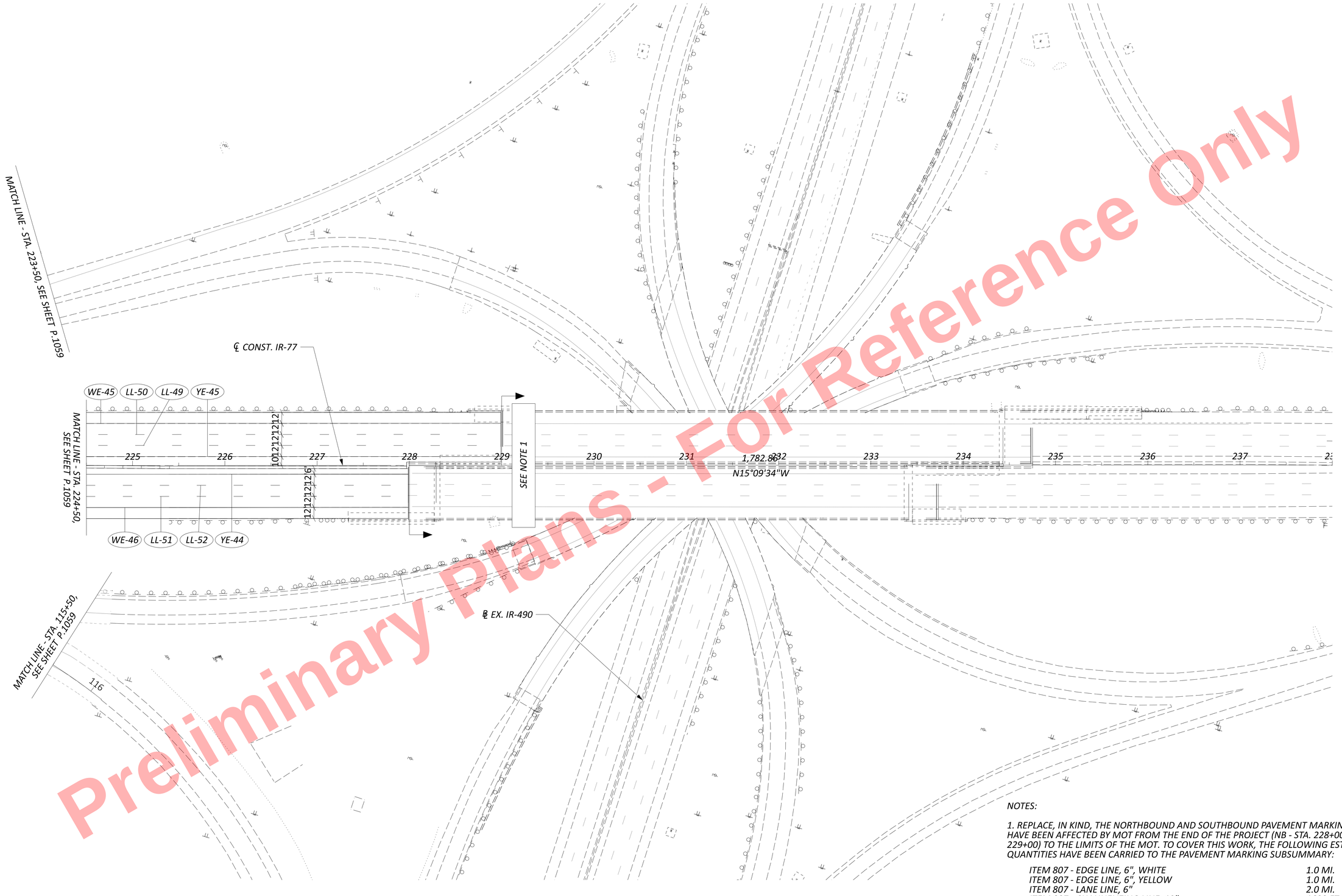
Preliminary Plans - For Reference Only



NOTES:

1. REPLACE, IN KIND, THE NORTHBOUND AND SOUTHBOUND PAVEMENT MARKINGS THAT HAVE BEEN AFFECTED BY MOT FROM THE END OF THE PROJECT (NB - STA. 228+00, SB - STA. 229+00) TO THE LIMITS OF THE MOT. TO COVER THIS WORK, THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE PAVEMENT MARKING SUBSUMMARY:

ITEM 807 - EDGE LINE, 6", WHITE	*1.0 MI.*
ITEM 807 - EDGE LINE, 6", YELLOW	*1.0 MI.*
ITEM 807 - LANE LINE, 6"	*2.0 MI.*
ITEM 807 - CHANNELIZING LINE, 12"	*1600 FT.*
ITEM 807 - DOTTED LINE, 6", WHITE (3' DASH, 9' GAP)	*2000 FT.*
ITEM 850 - GROOVING FOR 6" RECESSED PAVEMENT MARKING	*4.38 MI.*
ITEM 850 - GROOVING FOR 12" RECESSED PAVEMENT MARKING	*1600 FT.*

SEE SHEET P.1048 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.1061 -P.1073 FOR SIGNING PLAN.

HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING PLAN - IR-77
IR-77 STA. 224+50 TO STA. 238+00

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER	JAR
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET / TOTAL	13 / 28
SHEET / TOTAL	P.1060 / 1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:45:14 PM RETTIG, JACOB
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CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:45:20 PM RETTIG, JACOB
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Preliminary Plans - For Reference Only

TRAFFIC SIGNING PLAN - IR-77
IR-77 STA. 68+00 TO STA. 81+00

HORIZONTAL SCALE IN FEET
0 25 50 100

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER	JAR
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET	14
TOTAL	28
SHEET	P.1061
TOTAL	1269

SEE SHEET P.1048 FOR SIGNING AND PAVEMENT MARKING LEGEND.
SEE SHEETS P.1048 - P.1060 FOR PAVEMENT MARKING PLAN.

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:45:27 PM RETTIG, JACOB
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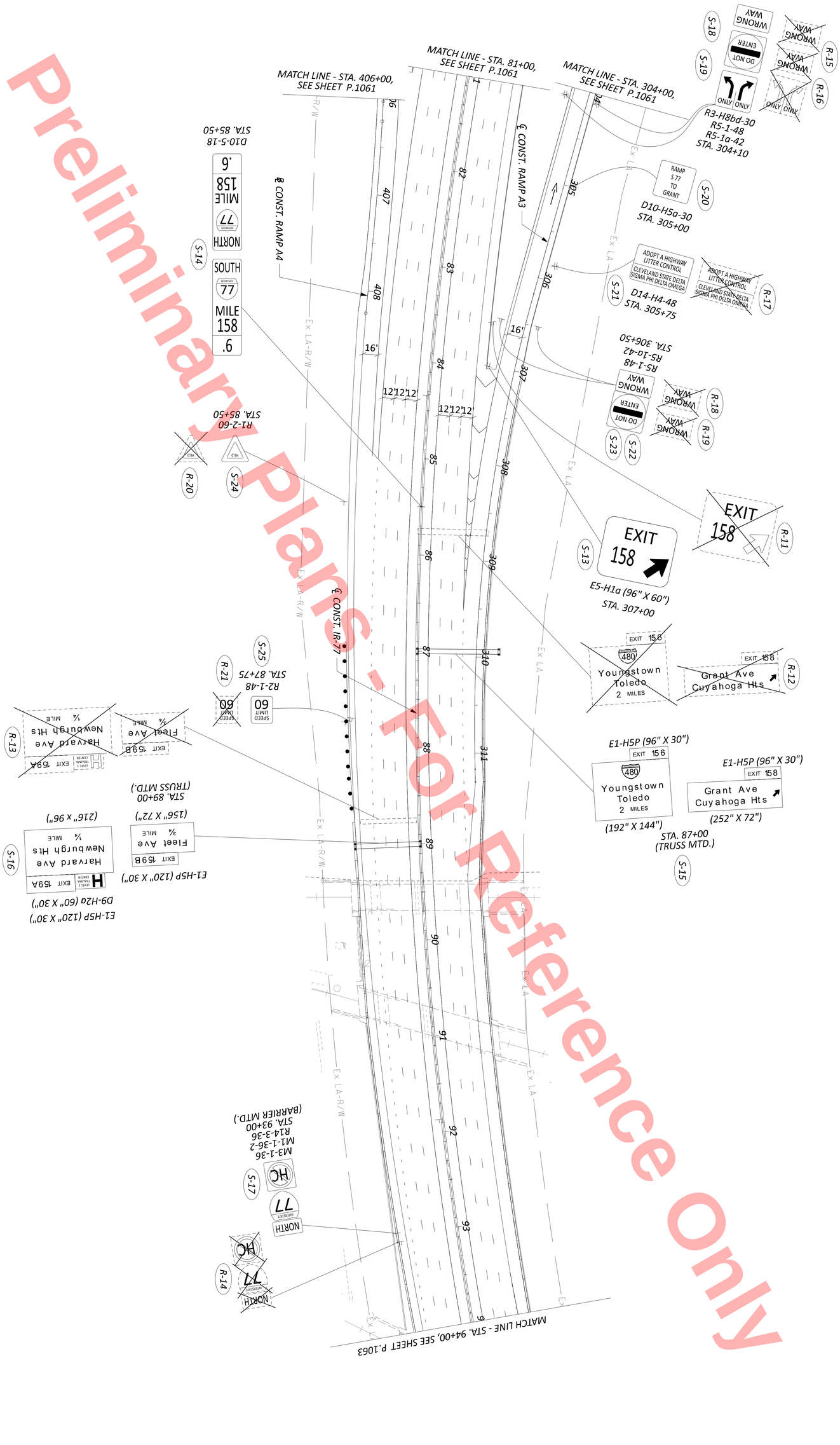
SEE SHEET P.1048 FOR SIGNING AND PAVEMENT MARKING LEGEND.
SEE SHEETS P.1048 - P.1060 FOR PAVEMENT MARKING PLAN.



DESIGN AGENCY: Lanham ENGINEERING LLC	DESIGNER: JAR	REVIEWER: DKA 04-24-26	PROJECT ID: 105743	SUBSET: 15 TOTAL: 28	SHEET: P.1062 TOTAL: 1269

TRAFFIC SIGNING PLAN - IR-77
IR-77 STA. 81+00 TO STA. 94+00

HORIZONTAL SCALE IN FEET
0 25 50 100

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:45:32 PM RETTIG, JACOB
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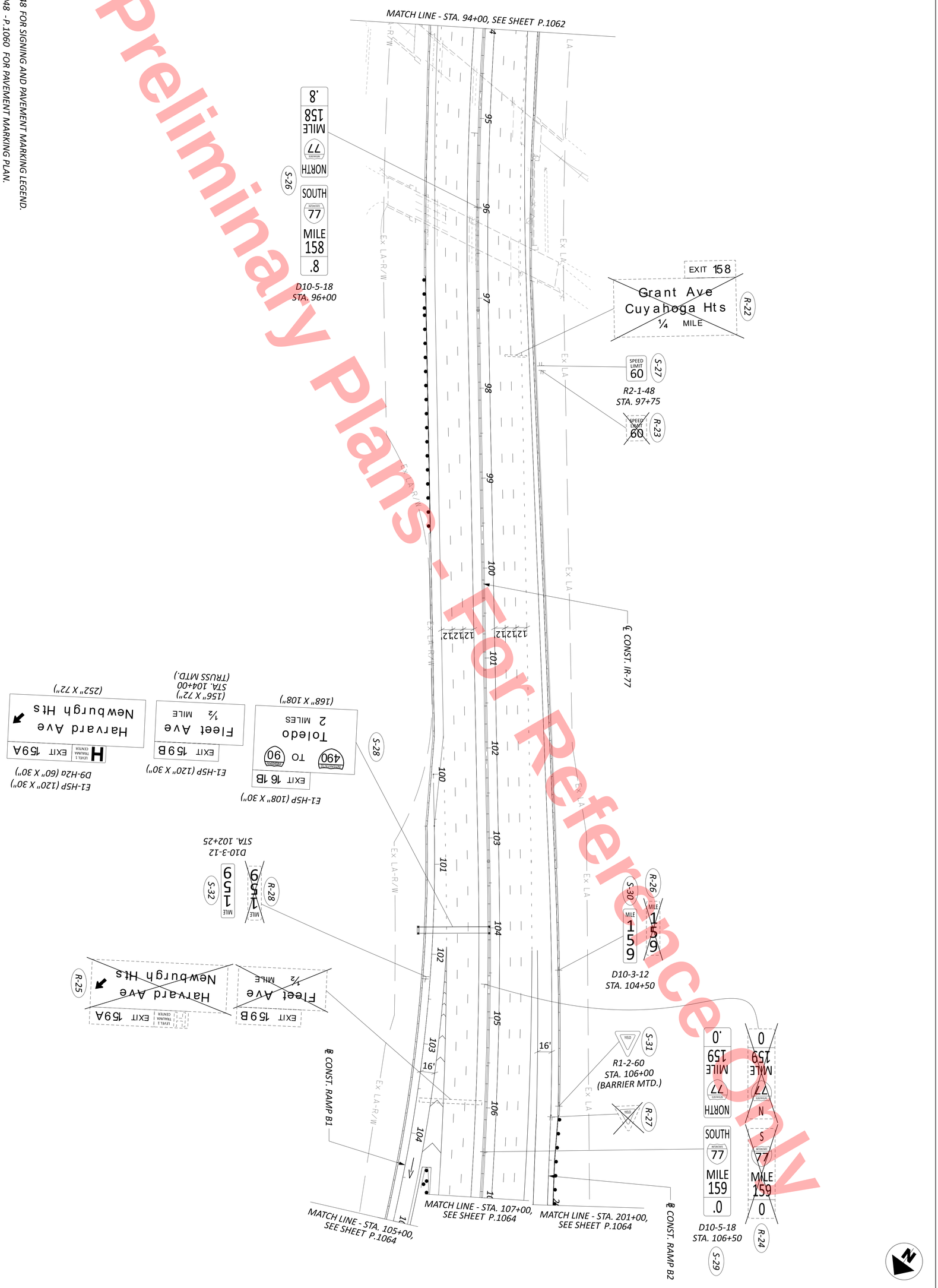
SEE SHEET P.1048 FOR SIGNING AND PAVEMENT MARKING LEGEND.
SEE SHEETS P.1048 - P.1060 FOR PAVEMENT MARKING PLAN.



Preliminary Plans - For Reference Only

DESIGNER JAR	REVIEWER DKA 04-24-26	PROJECT ID 105743	SUBSET 16 TOTAL 28
SHEET P.1063 TOTAL 1269			

DESIGN AGENCY: Lanham ENGINEERING LLC

TRAFFIC SIGNING PLAN - IR-77
IR-77 STA. 94+00 TO STA. 107+00

HORIZONTAL SCALE IN FEET
0 25 50 100

TRAFFIC SIGNING PLAN - IR-77
IR-77 STA. 107+00 TO STA. 120+00

HORIZONTAL SCALE IN FEET
0 25 50 100

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:45:38 PM RETTIG, JACOB
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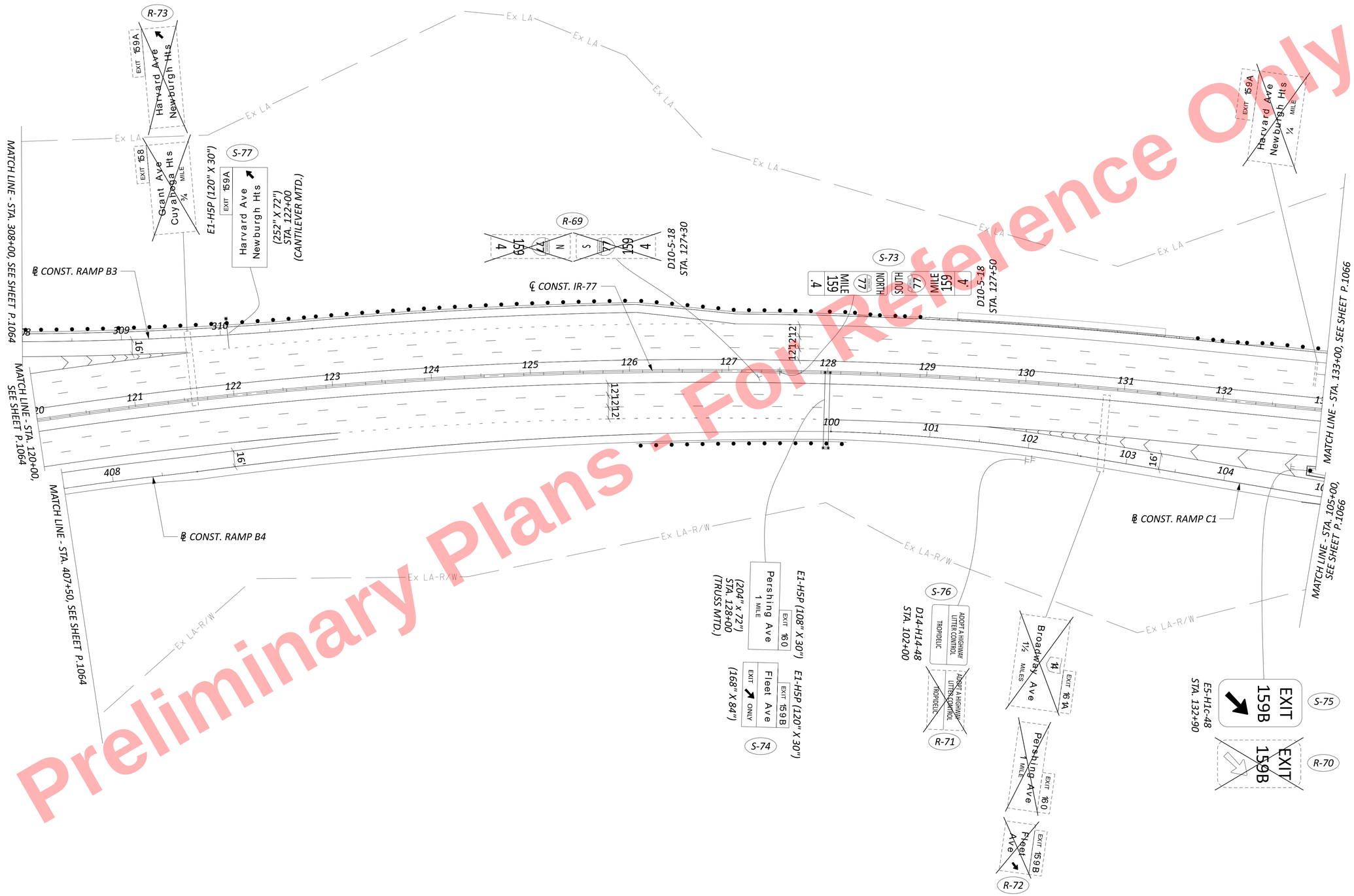
DESIGN AGENCY: Lanham Engineering LLC

DESIGNER	JAR
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET	17
TOTAL	28
SHEET	P.1064
TOTAL	1269

For Reference Only
Preliminary Plans - Not for Construction

SEE SHEET P.1048 FOR SIGNING AND PAVEMENT MARKING LEGEND.
SEE SHEETS P.1048 - P.1060 FOR PAVEMENT MARKING PLAN.

Preliminary Plans - Not For Reference Only



SEE SHEET P.1048 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.1048 - P.1060 FOR PAVEMENT MARKING PLAN.

HORIZONTAL SCALE IN FEET
0 25 50 100

TRAFFIC SIGNING PLAN - IR-77
IR-77 STA. 120+00 TO STA. 133+00

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER	JAR
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET	18
TOTAL	28
SHEET	P.1065
TOTAL	1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:45:44 PM RETTIG, JACOB
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Preliminary Plans - For Reference Only

SEE SHEET P.1048 FOR SIGNING AND PAVEMENT MARKING LEGEND.
SEE SHEETS P.1048 - P.1060 FOR PAVEMENT MARKING PLAN.

MATCH LINE - STA. 105+00, SEE SHEET P.1065
MATCH LINE - STA. 133+00, SEE SHEET P.1065
MATCH LINE - STA. 146+00, SEE SHEET P.1067
MATCH LINE - STA. 304+00, SEE SHEET P.1067

W3-3-36 S-84 S-85 R-79 R-80
WRONG WAY / DO NOT ENTER
R5-1-48 R5-1a-42
STA. 105+50

D10-H5a-30 STA. 107+00 R-81 S-86

W2-3L-36 STA. 108+00 R-82 S-87

I-H2a-84 STA. 137+50 R-74A S-77A
Cleveland CORP LIMIT

D1-3d-132 STA. 109+00 R-83 S-88
EAST 49th St
Fleet Ave
Slavic Village

W16-19P-30 S1-1-36 STA. 110+00 R-84 R-85 S-89 S-90
AHEAD

R5-1-48 R5-1a-42 STA. 111+00 R-86 R-87 S-91 S-92
WRONG WAY / DO NOT ENTER / ONLY

R5-2-36 M6-1-30 STA. 111+75 R-88 S-93

R-75 R2-1-48 STA. 139+50 60 S-79

R6-1R-54 R6-1L-54 R5-1-48 STA. 112+00 R-89 R-90 S-94 S-95
DO NOT ENTER / ONE WAY

W14-2-36 STA. 112+00 R-91 S-96
NO OUTLET

E1-H5P (108" X 30") STA. 139+50
EXIT 16 1B
Toledo Opportunity Corridor
490 TO 90
1½ MILES
S-80

(192" X 180") STA. 141+50 (CANTILEVER MTD.)
EXIT 16 1B
Toledo Opportunity Corridor
490 TO 71
1½ MILES
R-76

D10-5-18 STA. 137+35 R-74 S-78
N 77 159 S 77 159 9

D10-5-18 STA. 138+00 S-78
NORTH 77 MILE 159 .6
SOUTH 77 MILE 159 .9

R-76 S-80 121212 121212

KEEP RIGHT
ENTER / DO NOT ENTER
STOP HERE ON RED
LEFT LANE MUST TURN LEFT
NO MOTOR VEHICLES
WRONG WAY / ONLY
SPEED LIMIT 25
PRIVATE LOCAL SIGN
WEIGHT LIMIT 5 TONS
BIKE ROUTE
FLEET
ONLY ONLY ONLY
77 SOUTH TO Washington Park Crete
FOUNDED 1796 CLEVELAND
NO PARKING ANY TIME
SCHOOL XING
PRIVATE SIGN
INDEPENDENCE
AHEAD NO THROUGH TRUCKS
BIKE ROUTE
SOUTH 77
Newburgh Hts CORP LIMIT
I-H2a-84 STA. 142+75 S-81 R-77
25 MPH
EX. INDEPENDENCE RD.

W4-1R-48 STA. 144+25 S-83 R-78

E1-H5P (96" X 30") STA. 143+50 (CANTILEVER MTD.)
EXIT 158
Grant Ave
Cuyahoga Hts
1 MILE
S-82

D10-H5a-30 STA. 303+75 S-99 R-94
RAMP TO FLEET N 77

R5-H10e(MOD.)-30 STA. 301+50 S-98 R-93
PROHIBITED PEDESTRIANS BICYCLES MOTORCYCLES

(108" x 84") STA. 300+28 (MTD. ON EXISTING CANTILEVER)
Cleveland NORTH 77 S-97 R-92

KEEP RIGHT
STOP HERE ON RED
THROUGH VEHICLES PROHIBITED
NO PARKING ANY TIME

& CONST. RAMP C1
& CONST. IR-77
& EX. FLEET AVE.
& CONST. RAMP C3
Ex L.A.
Ex R/W
Ex L.A. R/W

TRAFFIC SIGNING PLAN - IR-77
IR-77 STA. 133+00 TO STA. 146+00

HORIZONTAL SCALE IN FEET
0 50
25 100

Preliminary Plans - For Reference Only

SEE SHEET P.1048 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.1048 - P.1060 FOR PAVEMENT MARKING PLAN.

HORIZONTAL SCALE IN FEET
0 25 50 100

TRAFFIC SIGNING PLAN - IR-77
IR-77 STA. 146+00 TO STA. 159+00

CUY-77-11.41 - PART 1

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER	JAR
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET / TOTAL	20 / 28
SHEET / TOTAL	P.1067 / 1269

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Preliminary Plans - For Reference Only

SEE SHEET P.1048 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.1048 -P.1060 FOR PAVEMENT MARKING PLAN.

HORIZONTAL SCALE IN FEET
0 25 50 100

TRAFFIC SIGNING PLAN - IR-77
IR-77 STA. 159+00 TO STA. 172+00

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:46:05 PM RETTIG, JACOB
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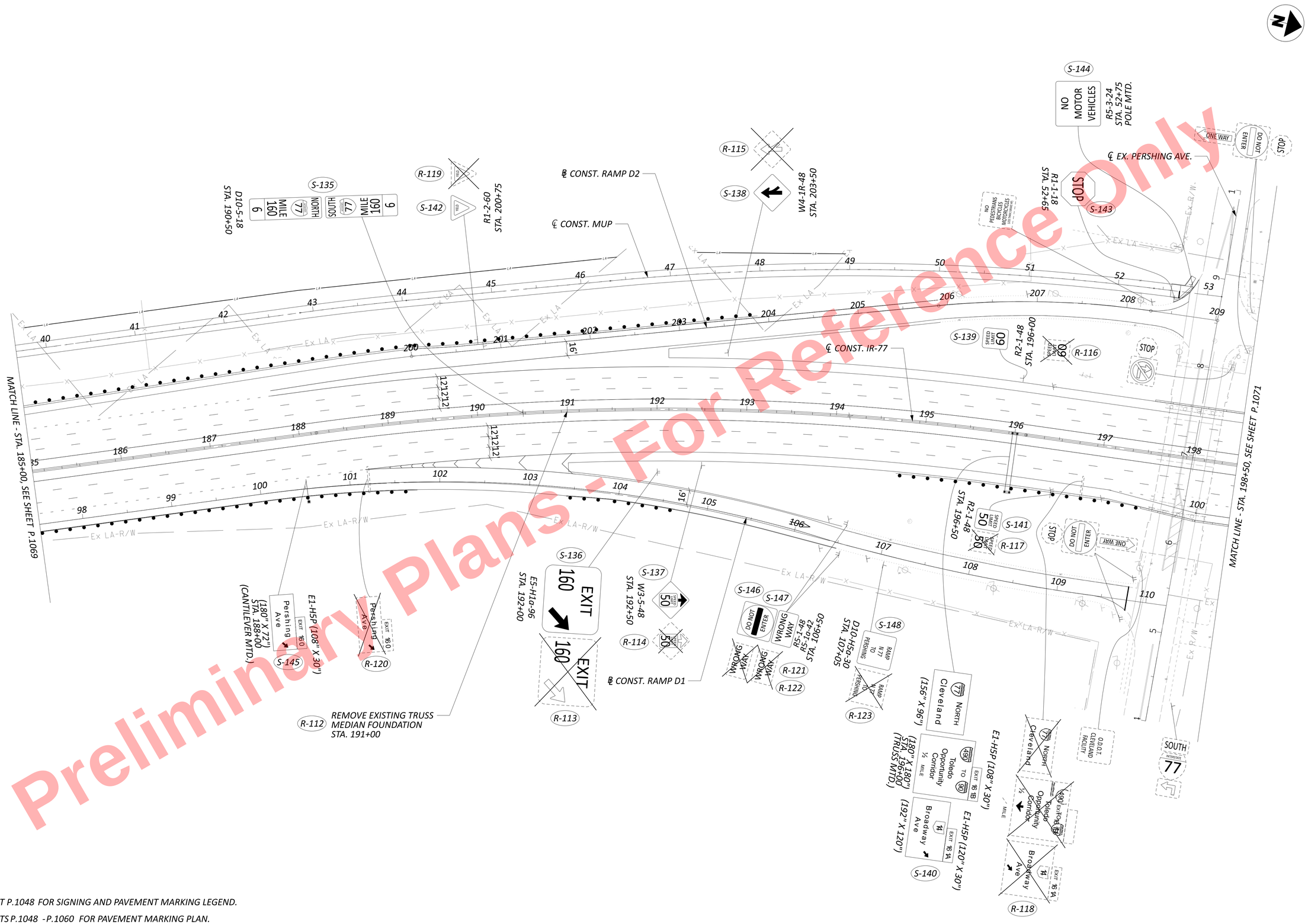
DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER	JAR
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET	21
TOTAL	28
SHEET	P.1068
TOTAL	1269

S-126
NO MOTOR VEHICLES
R5-3-24
STA. 30+01
S-127
TRAIL X-ING AHEAD
W11-15-30
W11-15P-18
W16-9P-24
STA. 30+17
S-128
STOP
R1-1-18
STA. 30+30
S-129
STOP
R1-1-36
STA. 30+44
S-130
STOP
R1-1-18
STA. 30+91
S-131
TRAIL X-ING
W11-15-30
W11-15P-18
W16-7PL-24
STA. 31+03
S-133
STOP
R1-1-18
STA. 31+44
S-134
NO MOTOR VEHICLES
R5-3-24
STA. 31+75
S-132
TRAIL X-ING
W11-15-30
W11-15P-18
W16-7PL-24
STA. 31+35
E1-H5P (120" X 30")
EXIT 159A
Harvard Ave
Newburgh Hts
1 MILE
E1-H5P (120" X 30")
EXIT 159B
Fleet Ave
½ MILE
(216" X 96")
STA. 177+00
(TRUSS MTD.)
(156" X 72")
D10-5-18
STA. 180+00
S-122
S-123
4
MILE
160
NORTH
77
SOUTH
77
MILE
160
4
S-124
SPEED LIMIT
60
R-109
SPEED LIMIT
60
R2-1-48
STA. 181+00
℄ CONST. MUP
R-111
R-110
R-108
S-125
Broadway Ave
½ MILE
14
EXIT 161A
E1-H5P (120" X 30")
(216" X 108")
STA. 182+00
(CANTILEVER MTD.)
℄ CONST. IR-77
EX. RUFFINI CT
14'-6"
14'-6"
Ex SW
Ex LA
Ex LA-R/W
Ex R/W
Ex LA-R/W
Ex LA-R/W
Ex LA-R/W
Ex LA-R/W
Ex LA
Ex LA
Ex LA



Preliminary Plans - For Reference Only

SEE SHEET P.1048 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.1048 - P.1060 FOR PAVEMENT MARKING PLAN.

HORIZONTAL SCALE IN FEET 0 25 50 100

TRAFFIC SIGNING PLAN - IR-77
IR-77 STA. 185+00 TO STA. 198+50

DESIGN AGENCY: Lanham Engineering LLC

DESIGNER	JAR
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET	23
TOTAL	28
SHEET	P.1070
TOTAL	1269

CUY-77-11.41 - PART 1

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Preliminary Plans - Not For Reference Only

SEE SHEET P.1048 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.1048 - P.1060 FOR PAVEMENT MARKING PLAN.

HORIZONTAL SCALE IN FEET
0 25 50 100

TRAFFIC SIGNING PLAN - IR-77
IR-77 STA. 198+50 TO STA. 211+00

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER	JAR
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET	24
TOTAL	28
SHEET	P.1071
TOTAL	1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 1/1/2026 TIME: 12:46:27 PM RETTIG, JACOB
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Preliminary Plans - For Reference Only

TRAFFIC SIGNING PLAN - IR-77
IR-77 STA. 211+00 TO STA. 224+50

HORIZONTAL SCALE IN FEET
0 25 50 100

N

MATCH LINE - STA. 211+00, SEE SHEET P.1071

MATCH LINE - STA. 223+50, SEE SHEET P.1073

MATCH LINE - STA. 224+50, SEE SHEET P.1073

MATCH LINE - STA. 115+50, SEE SHEET P.1073

Ex LA

℄ CONST. RAMP J5

℄ CONST. IR-77

℄ CONST. RAMP J1

℄ EX. BROADWAY AVE.

END PROJECT CONSTRUCTION
STA. 220+82

Vietnam Veterans Memorial Highway

Broadway

ROSEVILLE 45

NO MOTOR VEHICLES

STOP

S-168
D10-5-18
STA. 211+50
NORTH 77: 0. | 161
SOUTH 77: 161 | 0.

R-147
D10-5-18
STA. 211+20
N 77: 0 | 161
S 77: 161 | 0

SOUTH 77 Akron
Akron SOUTH 77

R-145
REMOVE EXISTING TRUSS MEDIAN FOUNDATION
STA. 219+50

S-170
E5-H1C-48
STA. 219+20
EXIT 161B
EXIT 161B

R-144

R-146
D10-5-18
STA. 221+60
N 77: 161 | 2
S 77: 2 | 161

RAMP N 77 TO 490

S-171
D10-5-18
STA. 220+00
NORTH 77: 161 | .2
SOUTH 77: .2 | 161

S-172
36" x 36" OVERLAY
STA. 114+16
(TRUSS MTD.)
WEST 490 TO Toledo
10 EAST Opportunity Corridor
90

R-143
Cleveland NORTH 77
EXIT ONLY Toledo Opportunity Corridor 490 TO 71
EXIT 16 1B

S-169
E1-H5P (108" X 30")
STA. 213+00
(TRUSS MTD.)
Cleveland NORTH 77 (156" X 96")
EXIT ONLY Toledo Opportunity Corridor 490 TO 90 EXIT 16 1B (180" X 180")

SOUTH 77
STOP
Broadway
Leer Drive
Broadway

AMTRAK
EXIT 163
FirstEnergy Stadium
Convention Center
JACK Casino

SEE SHEET P.1048 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.1048 - P.1060 FOR PAVEMENT MARKING PLAN.

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER	JAR
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET	25
TOTAL	28
SHEET	P.1072
TOTAL	1269

CUY-77-11.41 - PART 1

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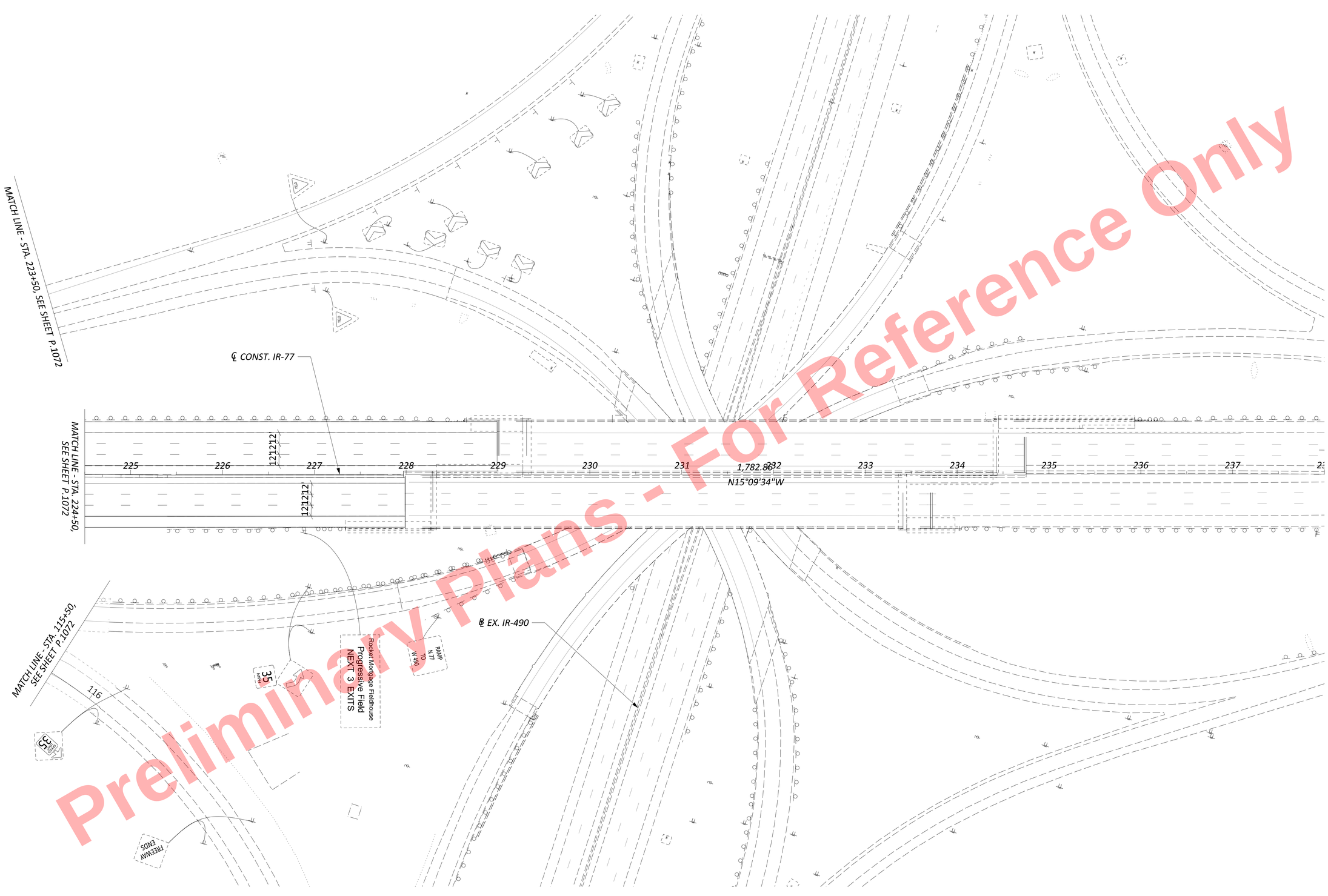
Preliminary Plans - For Reference Only



SEE SHEET P.1048 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SEE SHEETS P.1048 - P.1060 FOR PAVEMENT MARKING PLAN.

HORIZONTAL SCALE IN FEET
0 25 50 100

TRAFFIC SIGNING PLAN - IR-77
IR-77 STA. 224+50 TO STA. 238+00

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER	JAR
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET / TOTAL	26 / 28
SHEET / TOTAL	P.1073 / 1269

CUY-77-11.41 - PART 1

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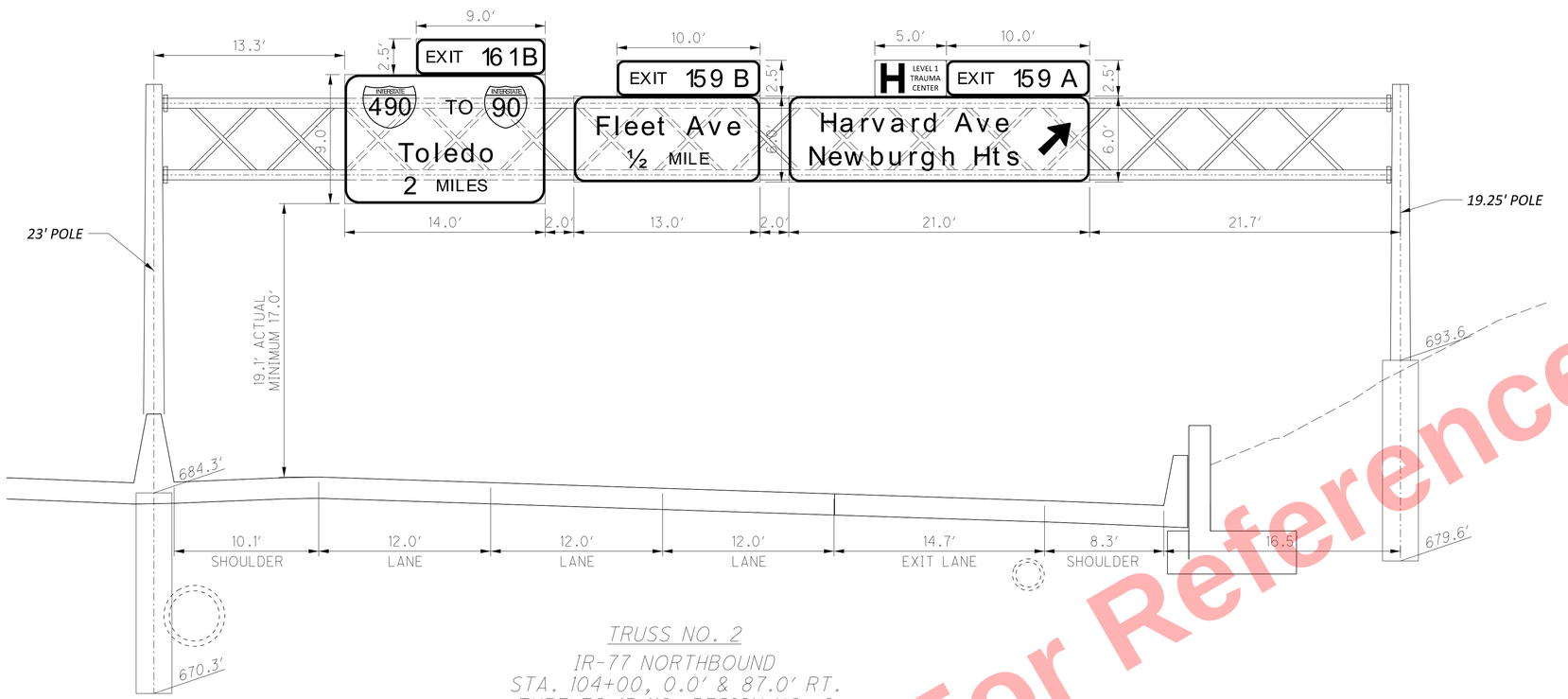
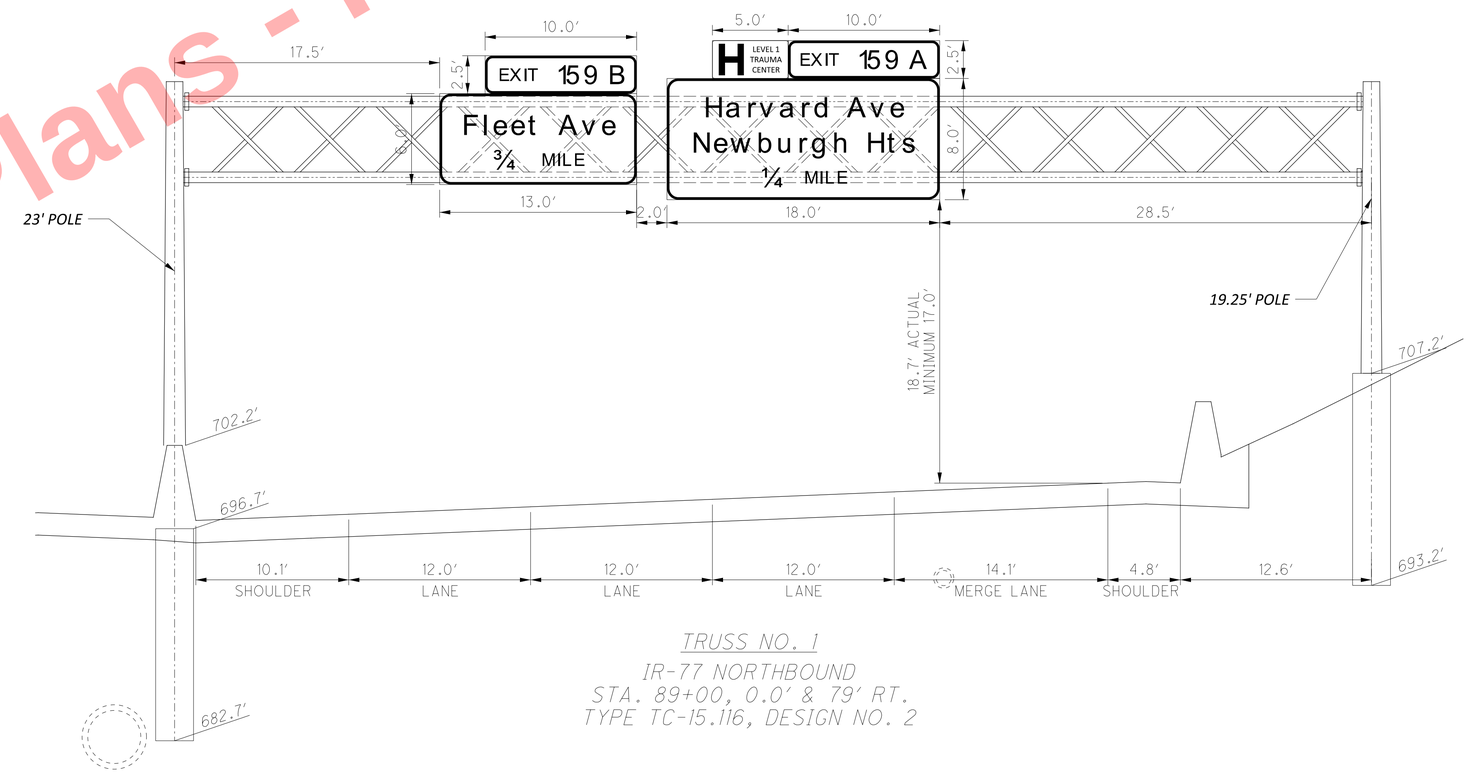


TRUSS NO. 2
IR-77 NORTHBOUND
STA. 104+00, 0.0' & 87.0' RT.
TYPE TC-15.116, DESIGN NO. 2



TRUSS NO. 1
IR-77 NORTHBOUND
STA. 89+00, 0.0' & 79' RT.
TYPE TC-15.116, DESIGN NO. 2

Preliminary Plans - For Reference Only

TRAFFIC SIGNING PLAN - IR-77
TRUSS ELEVATION VIEWS

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER	JML
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET	1
TOTAL	5
SHEET	P.1074
TOTAL	1269

CUY-77-11.41 - PART 1

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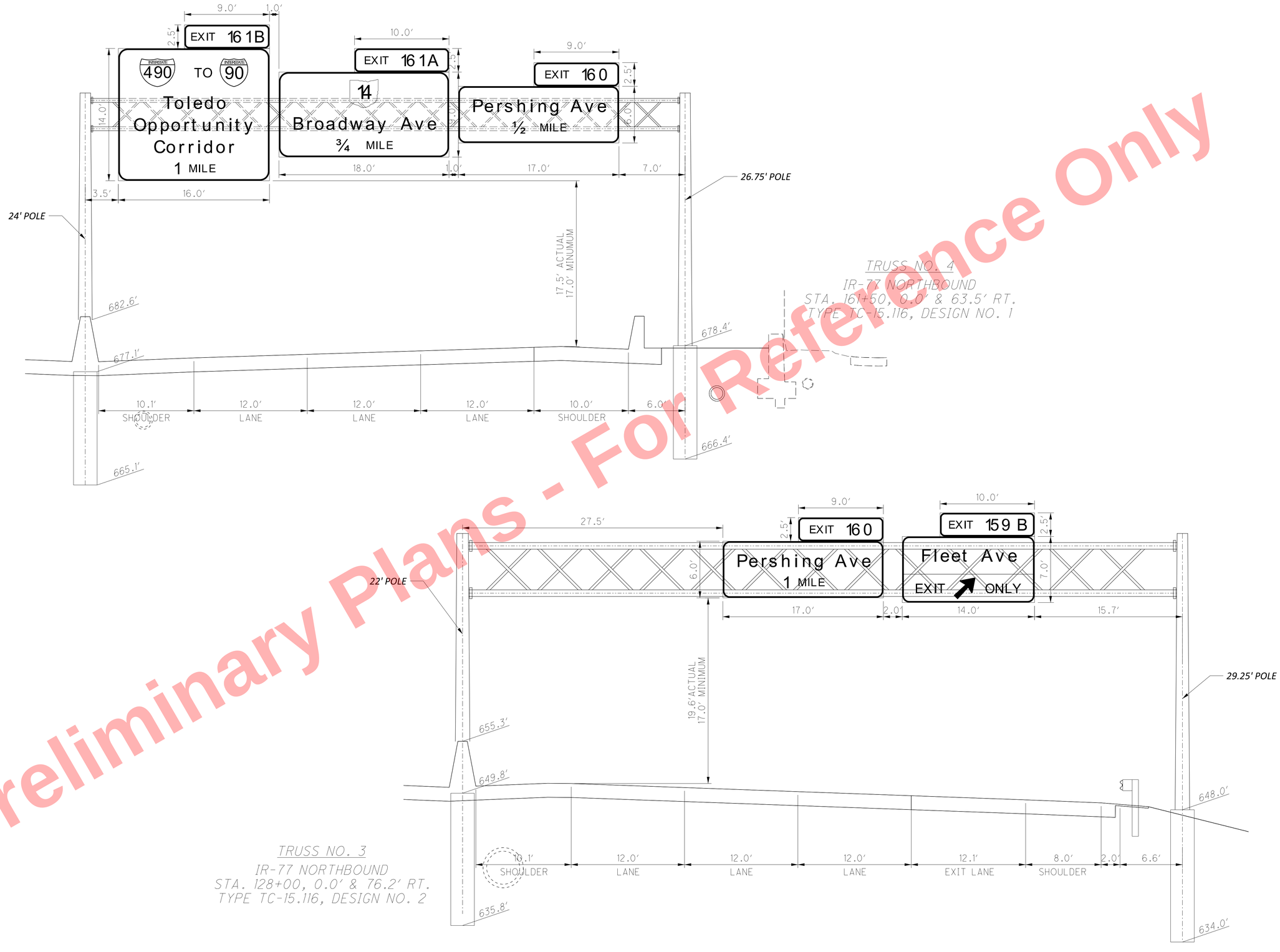

Preliminary Plans - For Reference Only

TRAFFIC SIGNING PLAN - IR-77
TRUSS ELEVATION VIEWS

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER	JML
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET	2
TOTAL	5
SHEET	P.1075
TOTAL	1269

CUY-77-11.41 - PART 1

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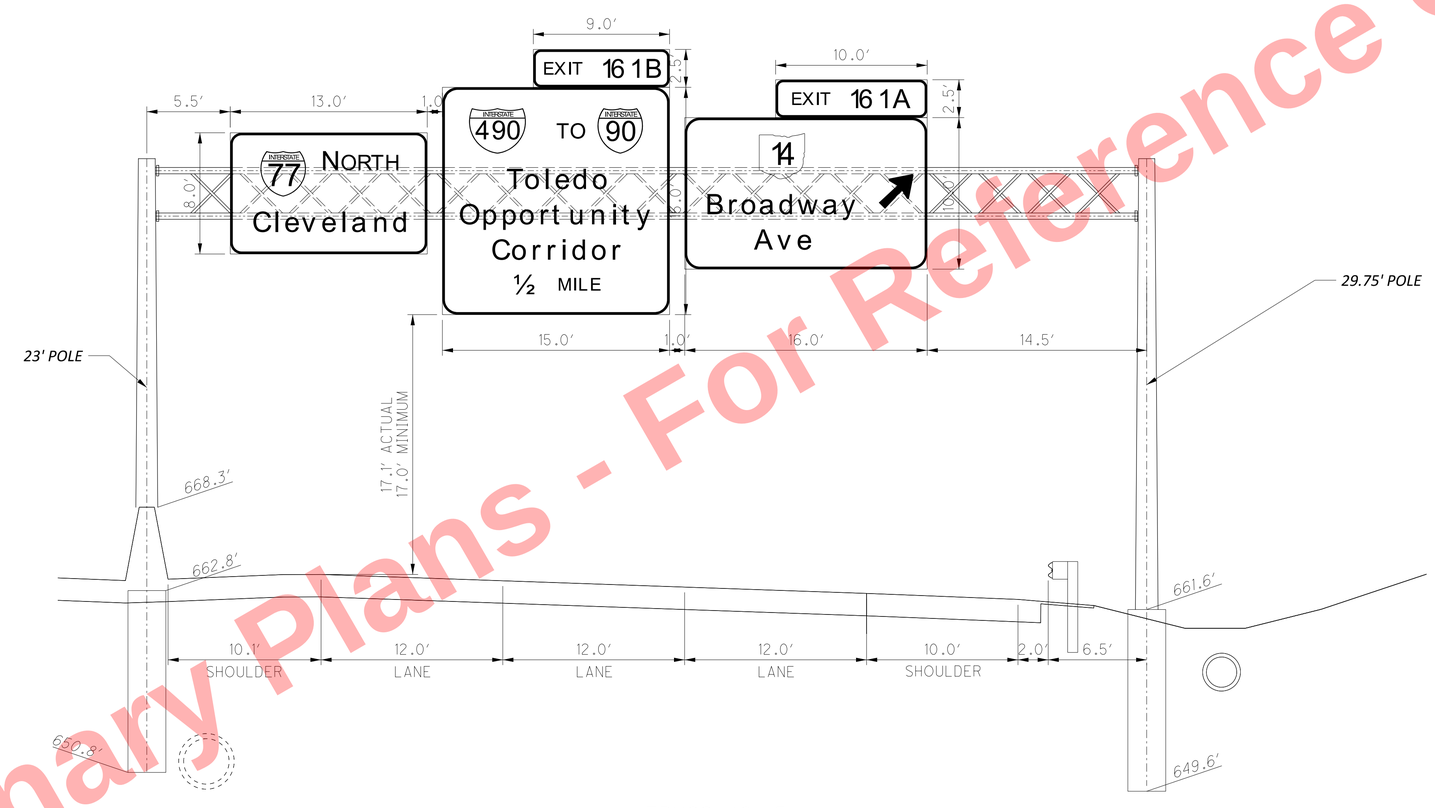

TRUSS NO. 5
IR-77 NORTHBOUND
STA. 196+00, 0.0′ & 66.0′ RT.
TYPE TC-15.116, DESIGN NO. 1

Preliminary Plans - For Reference Only

TRAFFIC SIGNING PLAN - IR-77
TRUSS ELEVATION VIEWS

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER	JML
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET	3
TOTAL	5
SHEET	P.1076
TOTAL	1269

CUY-77-11.41 - PART 1

MODEL: TE001C PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:47:09 PM RETTIG, JACOB
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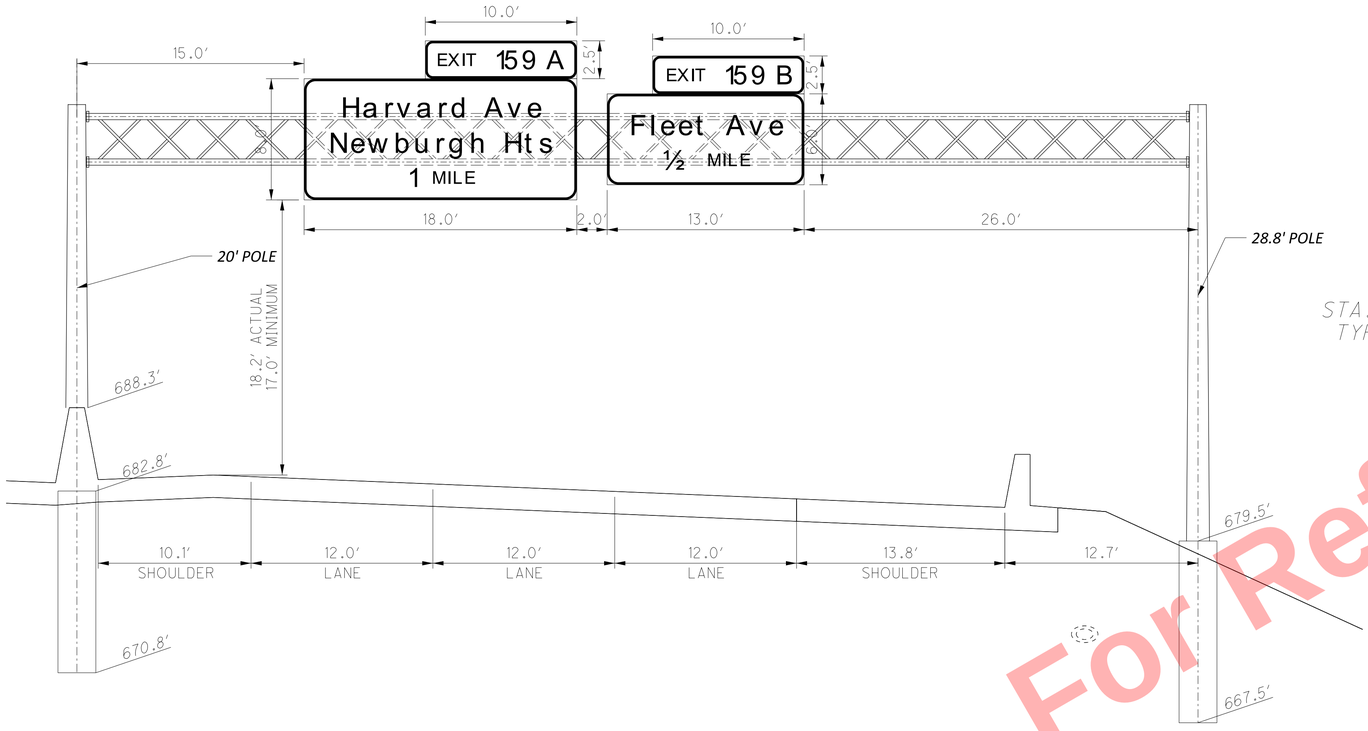
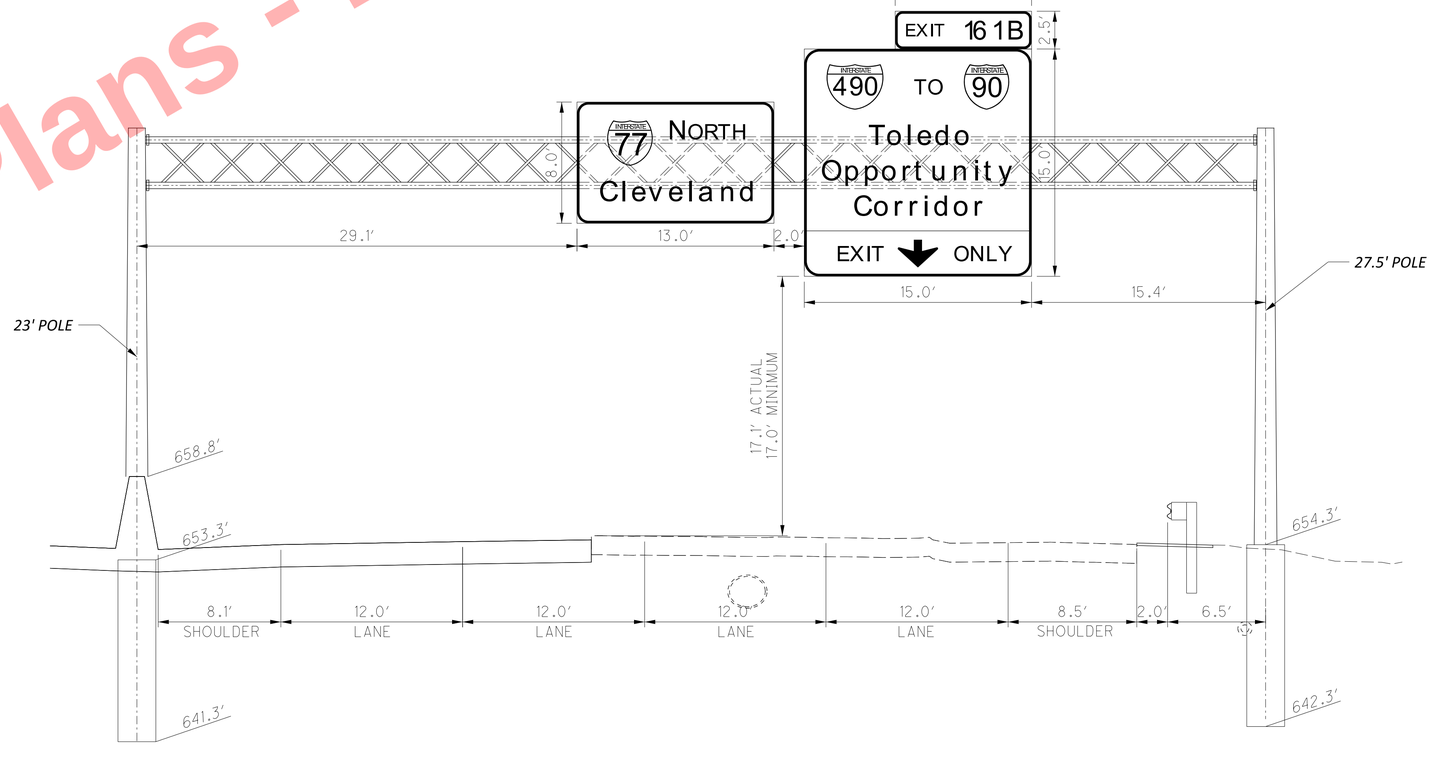


TRUSS NO. 6
IR-77 NORTHBOUND
STA. 177+00, 0.0′ & 62.75′ LT.
TYPE TC-15.116, DESIGN NO. 1



TRUSS NO. 5
IR-77 NORTHBOUND
STA. 213+00, 0.0′ & 74.5′ RT.
TYPE TC-15.116, DESIGN NO. 1

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: TE001D PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:47:37 PM RETTIG, JACOB
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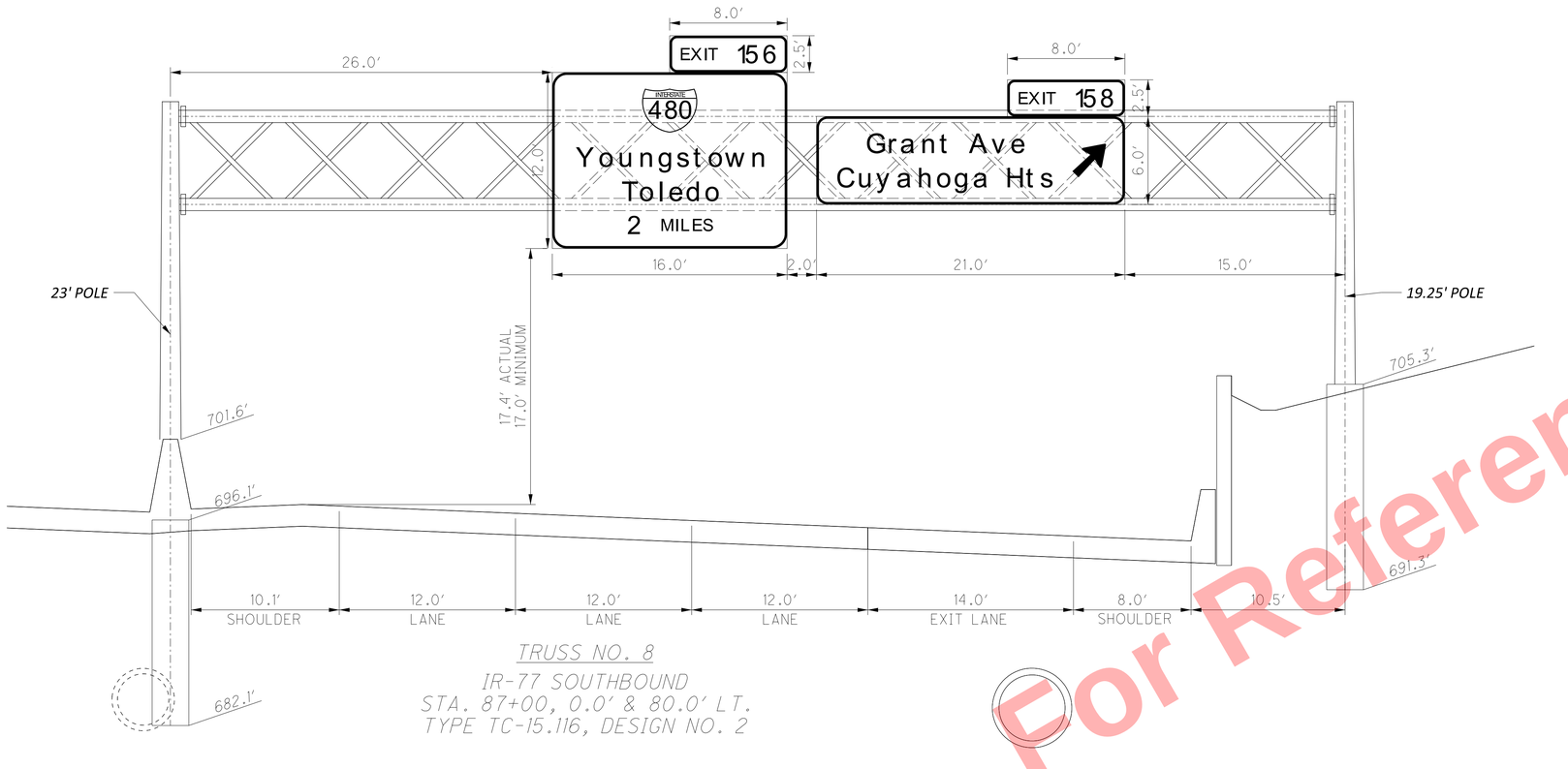
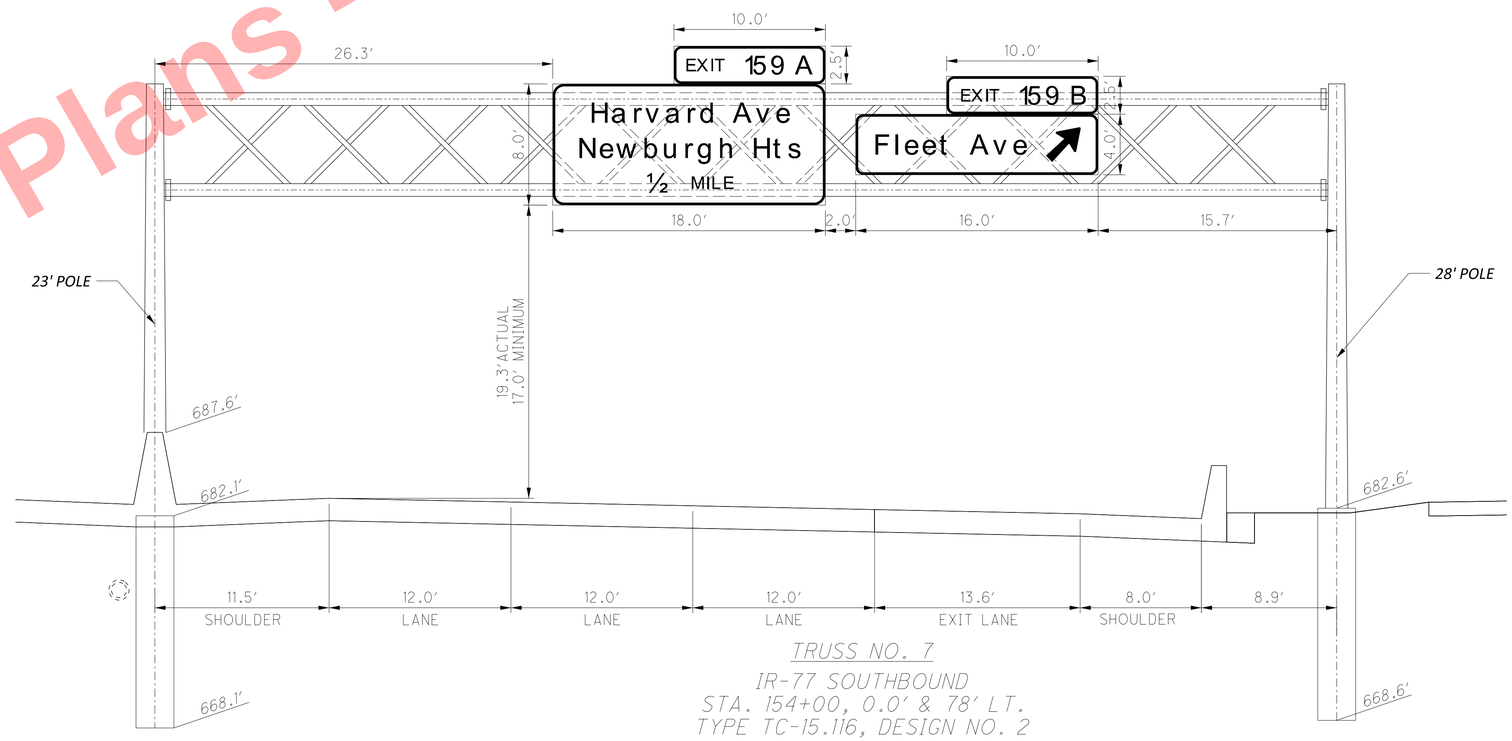
TRAFFIC SIGNING PLAN - IR-77
TRUSS ELEVATION VIEWS

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER	JML
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET	4
TOTAL	5
SHEET	P.1077
TOTAL	1269



TRUSS NO. 8
IR-77 SOUTHBOUND
STA. 87+00, 0.0′ & 80.0′ LT.
TYPE TC-15.116, DESIGN NO. 2



TRUSS NO. 7
IR-77 SOUTHBOUND
STA. 154+00, 0.0′ & 78′ LT.
TYPE TC-15.116, DESIGN NO. 2

Preliminary Plans - Not For Reference Only

TRAFFIC SIGNING PLAN - IR-77
TRUSS ELEVATION VIEWS

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER	JML
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET	5
TOTAL	5
SHEET	P.1078
TOTAL	1269

CUY-77-11.41 - PART 1

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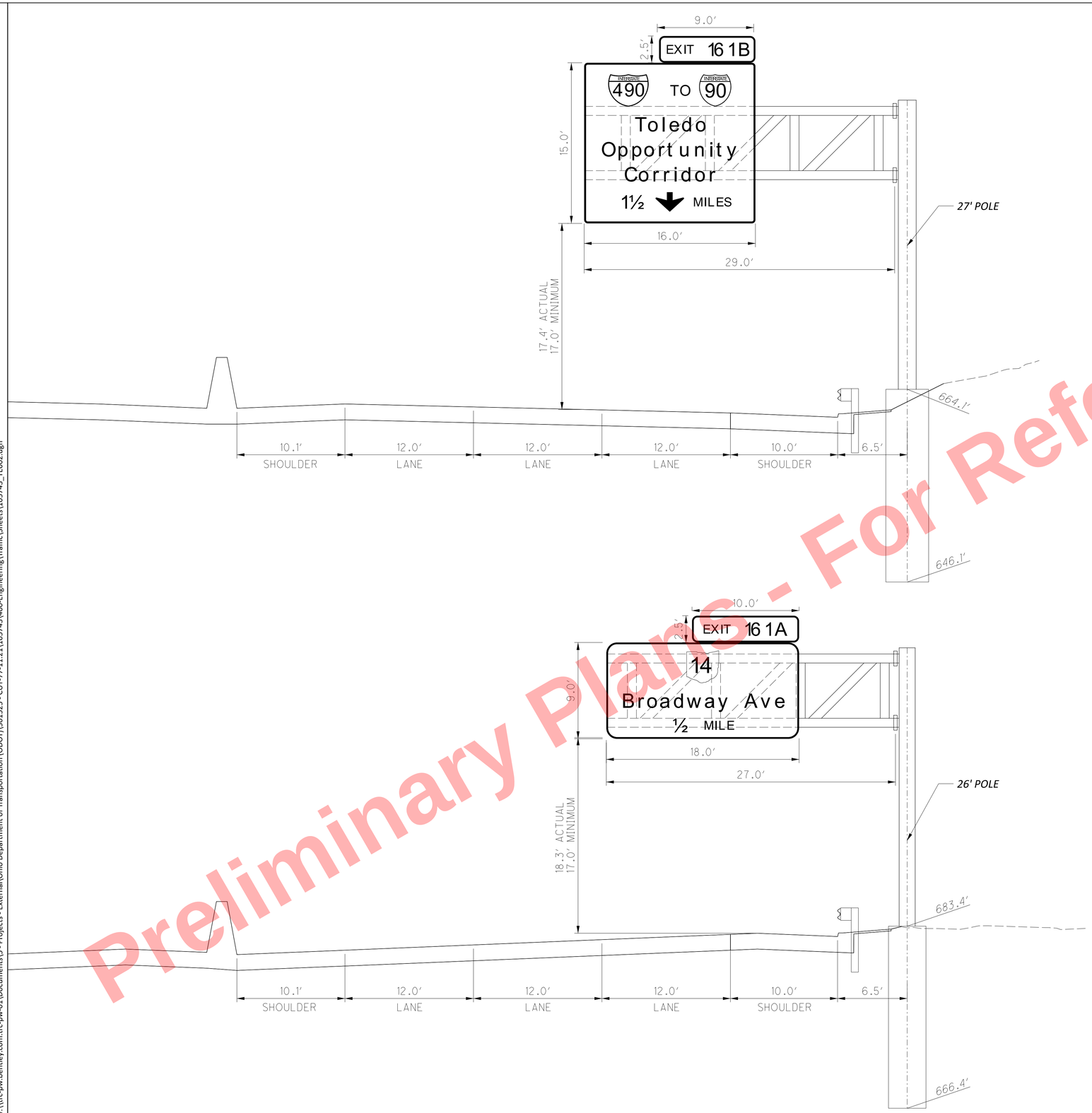

CANTILEVER NO. 1
IR-77 NORTHBOUND
STA. 141+50, 64.0′ RT.
TYPE TC-12.31, DESIGN NO. 12
29′ ARM

CANTILEVER NO. 2
IR-77 NORTHBOUND
STA. 182+00, 64.0′ RT.
TYPE TC-12.31, DESIGN NO. 10
27′ ARM

Preliminary Plans - For Reference Only

TRAFFIC SIGNING PLAN - IR-77
CANTILEVER ELEVATION VIEWS

CUY-77-11.41 - PART 1

MODEL: TE002A PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:47:53 PM RETTIG, JACOB
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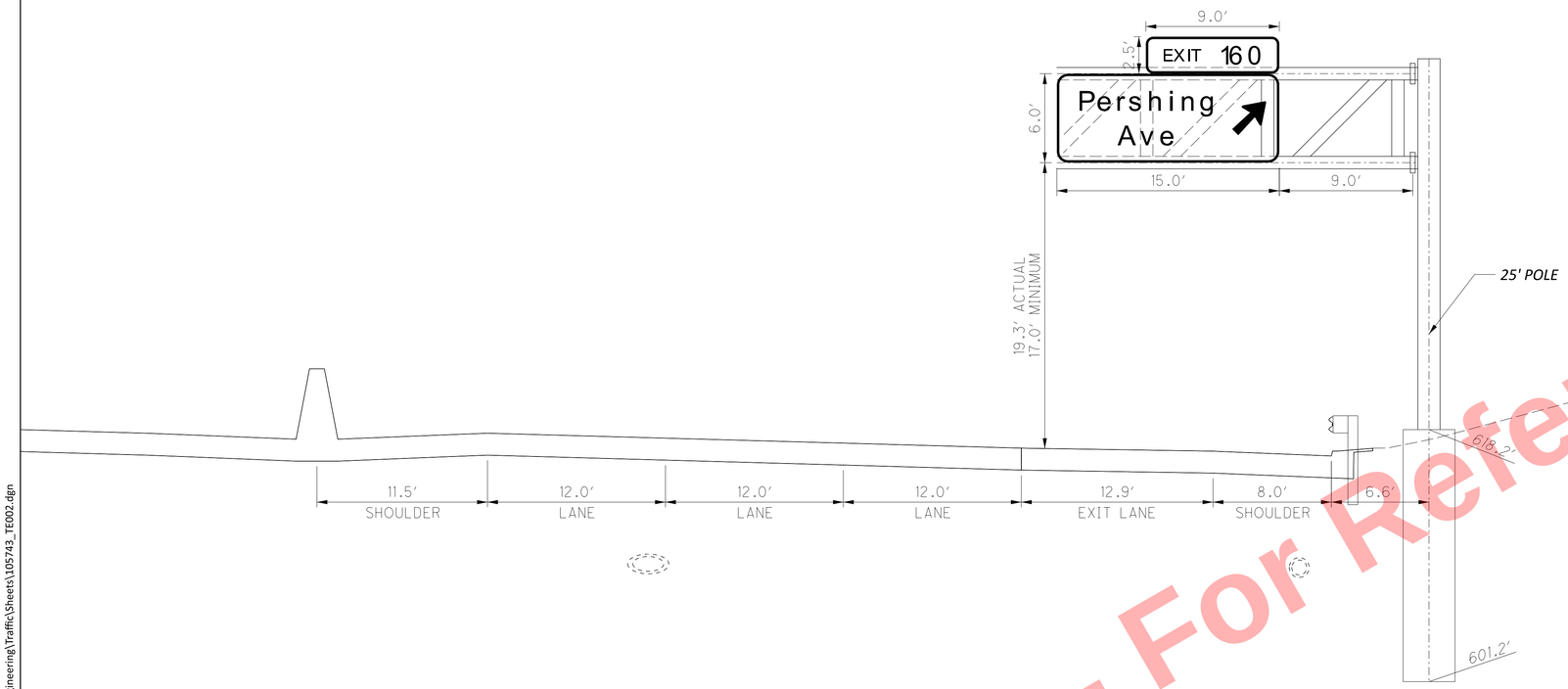
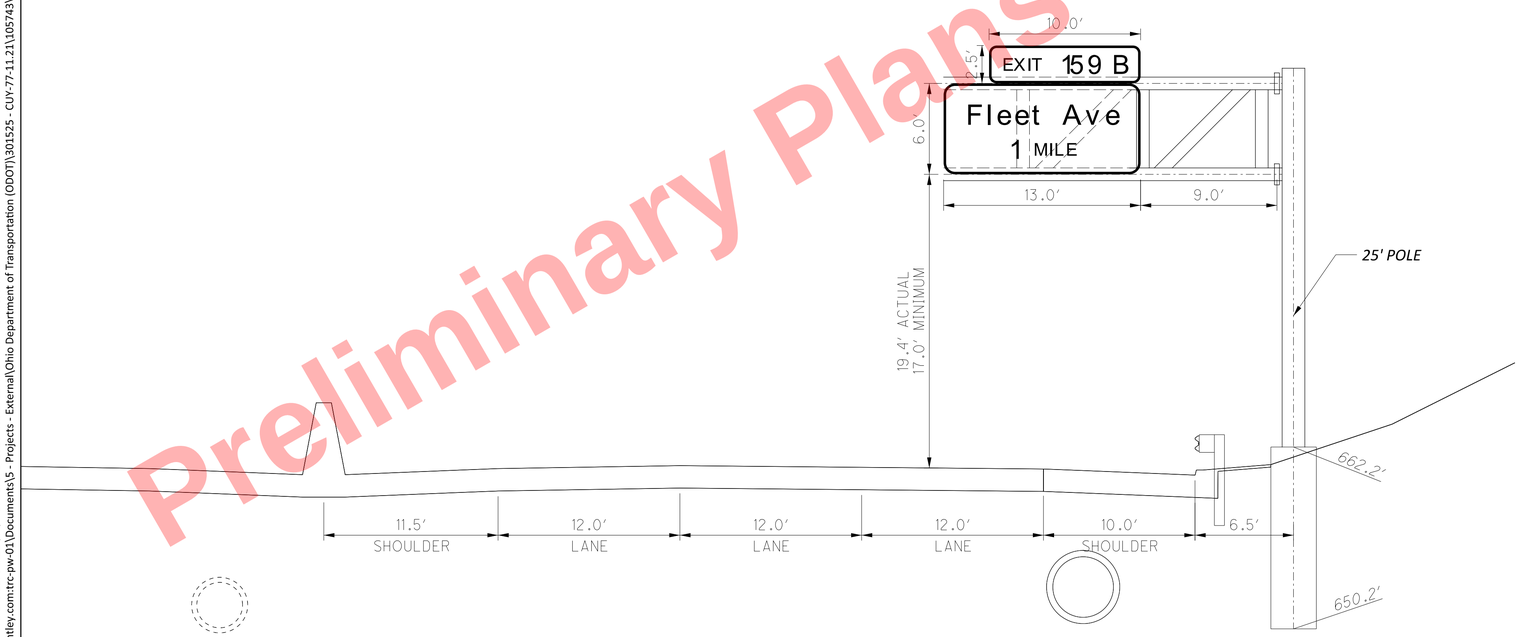
DESIGN AGENCY
Lanham Engineering LLC

DESIGNER ANC
REVIEWER JML 04-24-26
PROJECT ID 105743
SUBSET 1 | TOTAL 4
SHEET P.1079 | TOTAL 1269



CANTILEVER NO. 3
IR-77 NORTHBOUND
STA. 188+00, 75.0′ RT.
TYPE TC-12.31, DESIGN NO. 10
24′ ARM



CANTILEVER NO. 4
IR-77 SOUTHBOUND
STA. 199+00, 64.0′ LT.
TYPE TC-12.31, DESIGN NO. 6
22′ ARM

Preliminary Plans - For Reference Only

TRAFFIC SIGNING PLAN - IR-77
CANTILEVER ELEVATION VIEWS

CUY-77-11.41 - PART 1

MODEL: TE002B PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:47:54 PM RETTIG, JACOB
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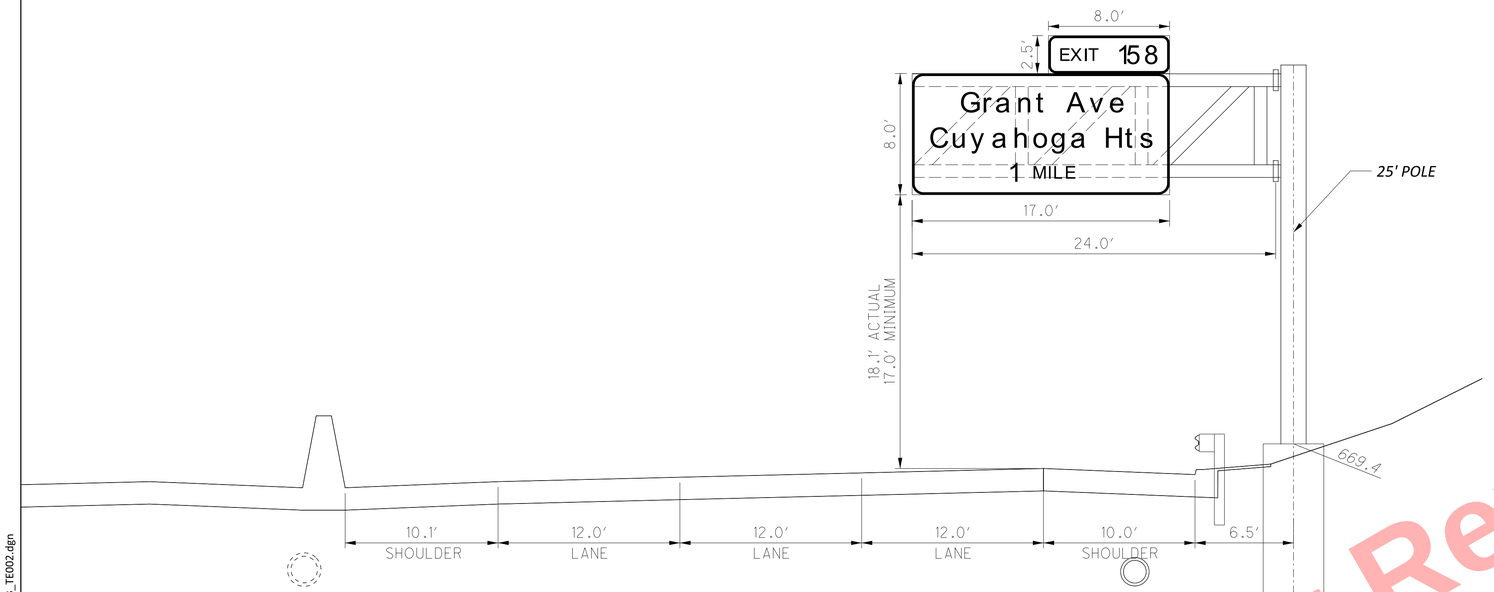
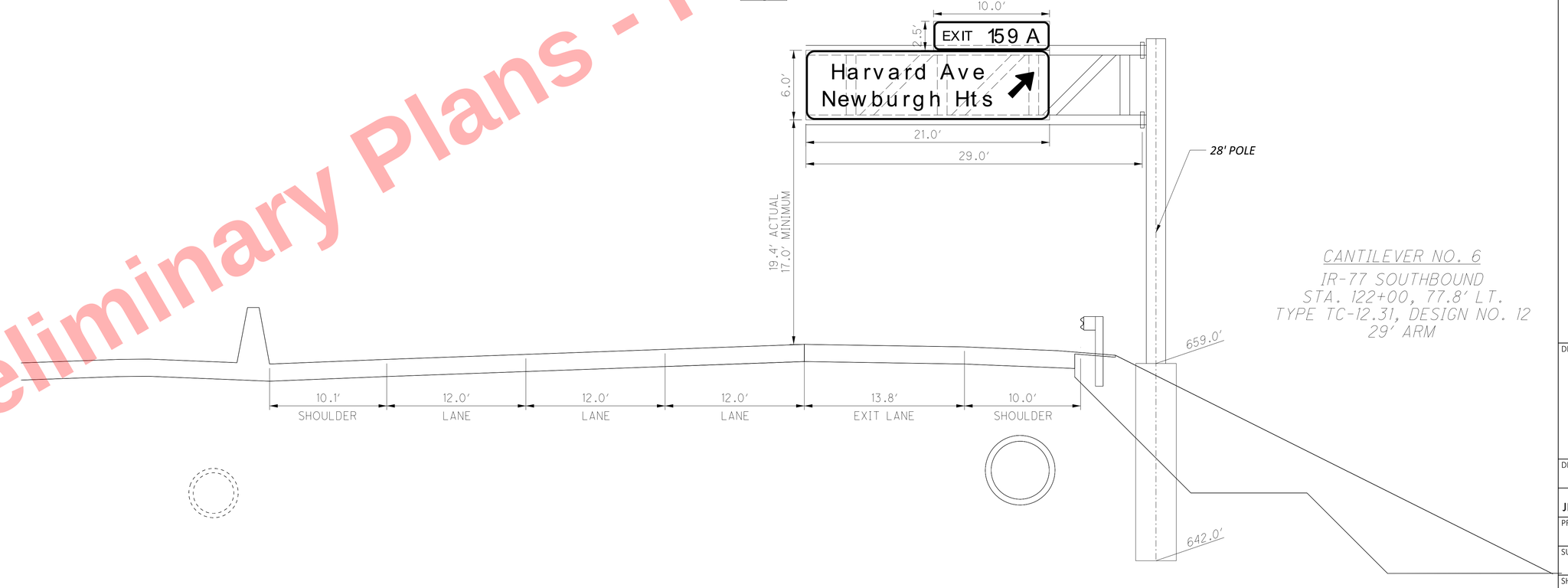
DESIGN AGENCY
Lanham Engineering LLC

DESIGNER ANC
REVIEWER JML 04-24-26
PROJECT ID 105743
SUBSET 2 | TOTAL 4
SHEET P.1080 | TOTAL 1269



CANTILEVER NO. 5
IR-77 SOUTHTHBOUND
STA. 143+50, 64′ LT.
TYPE TC-12.31, DESIGN NO. 12
24′ ARM



CANTILEVER NO. 6
IR-77 SOUTHBOUND
STA. 122+00, 77.8′ LT.
TYPE TC-12.31, DESIGN NO. 12
29′ ARM

Preliminary Plans - For Reference Only

TRAFFIC SIGNING PLAN - IR-77
CANTILEVER ELEVATION VIEWS

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER	AND
REVIEWER	JML 04-24-26
PROJECT ID	105743
SUBSET / TOTAL	3 / 4
SHEET / TOTAL	P.1081 / 1269

CUY-77-11.41 - PART 1

MODEL: TE002C PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:47:54 PM RETTIG, JACOB
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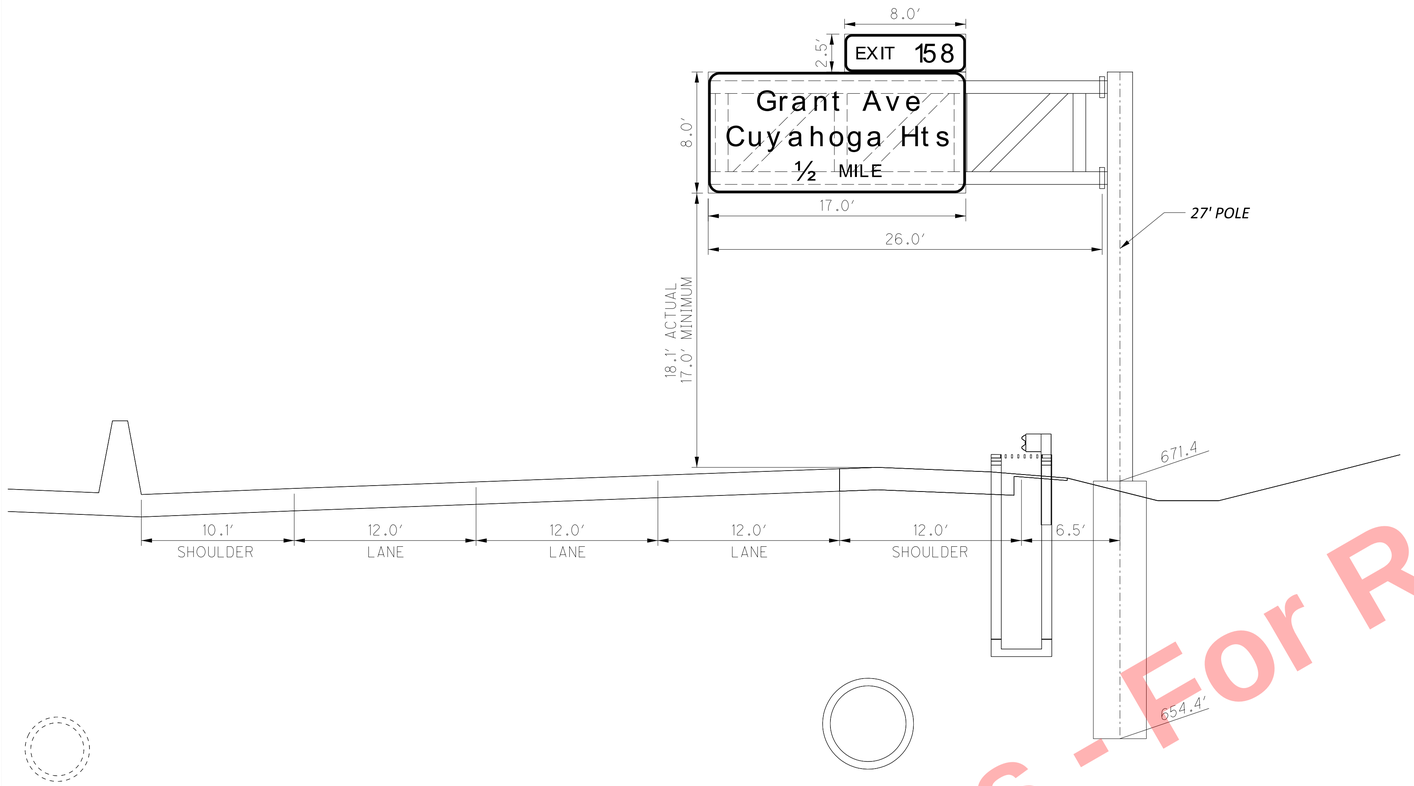
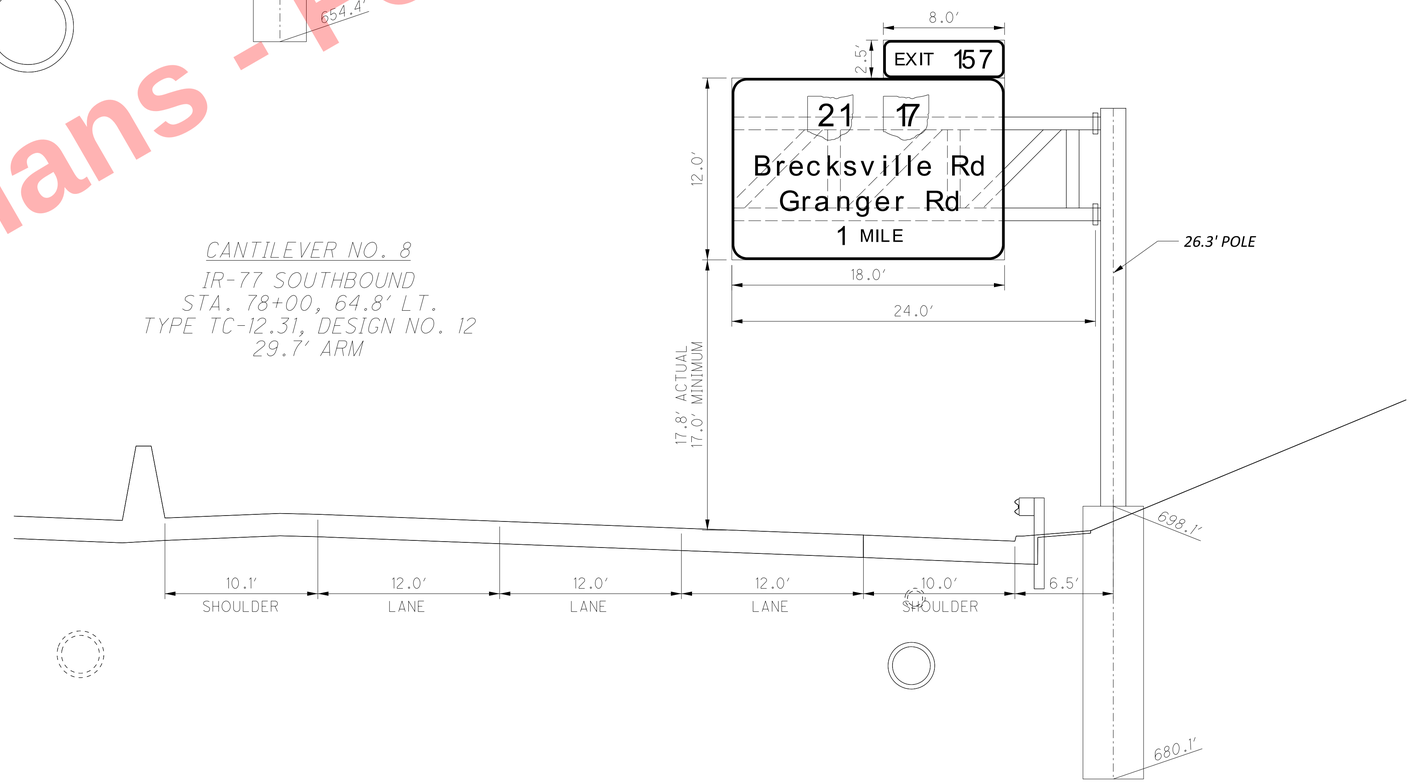


CANTILEVER NO. 7
IR-77 SOUTHTHBOUND
STA. 114+00, 66′ LT.
TYPE TC-12.31, DESIGN NO. 10
26′ ARM



CANTILEVER NO. 8
IR-77 SOUTHBOUND
STA. 78+00, 64.8′ LT.
TYPE TC-12.31, DESIGN NO. 12
29.7′ ARM

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: TE002D PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:47:55 PM RETTIG, JACOB
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TRAFFIC SIGNING PLAN - IR-77
CANTILEVER ELEVATION VIEWS

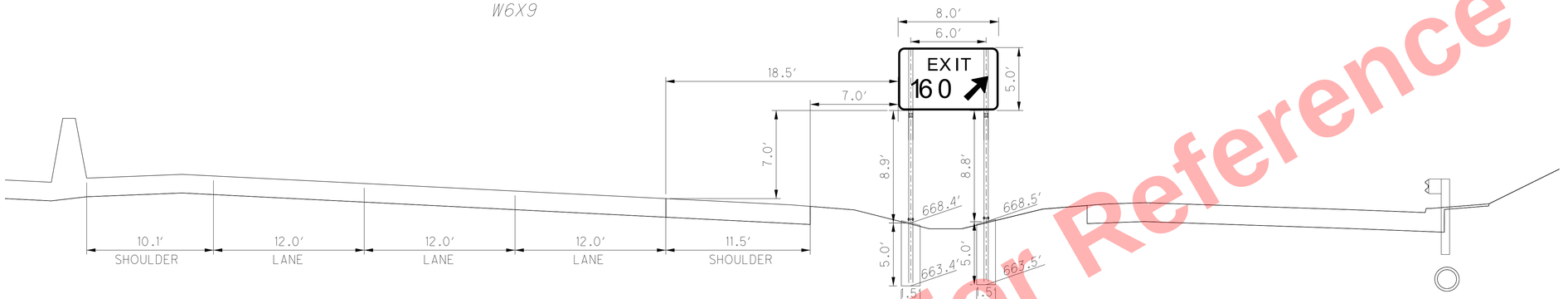
DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER	ANC
REVIEWER	JML 04-24-26
PROJECT ID	105743
SUBSET	4
TOTAL	4
SHEET	P.1082
TOTAL	1269

Preliminary Plans - For Reference Only

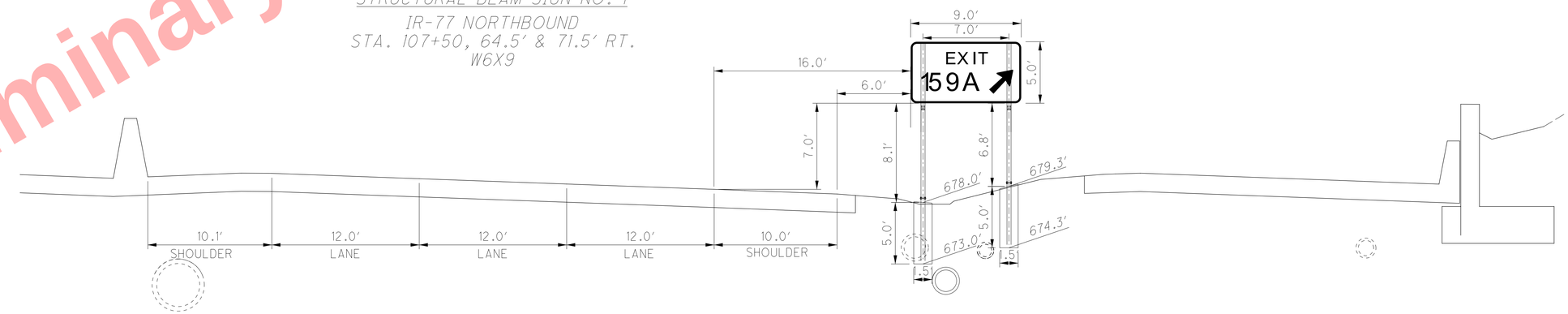
STRUCTURAL BEAM SIGN NO. 2

IR-77 NORTHBOUND
STA. 192+00 67.0′ & 73′ RT.
W6X9



STRUCTURAL BEAM SIGN NO. 1

IR-77 NORTHBOUND
STA. 107+50, 64.5′ & 71.5′ RT.
W6X9



TRAFFIC SIGNING PLAN - IR-77
BEAM ELEVATION VIEWS

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER	EO
REVIEWER	JML 04-24-26
PROJECT ID	105743
SUBSET	1
TOTAL	6
SHEET	P.1083
TOTAL	1269

CUY-77-11.41 - PART 1

MODEL: TE003A PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:48:03 PM RETTIG, JACOB
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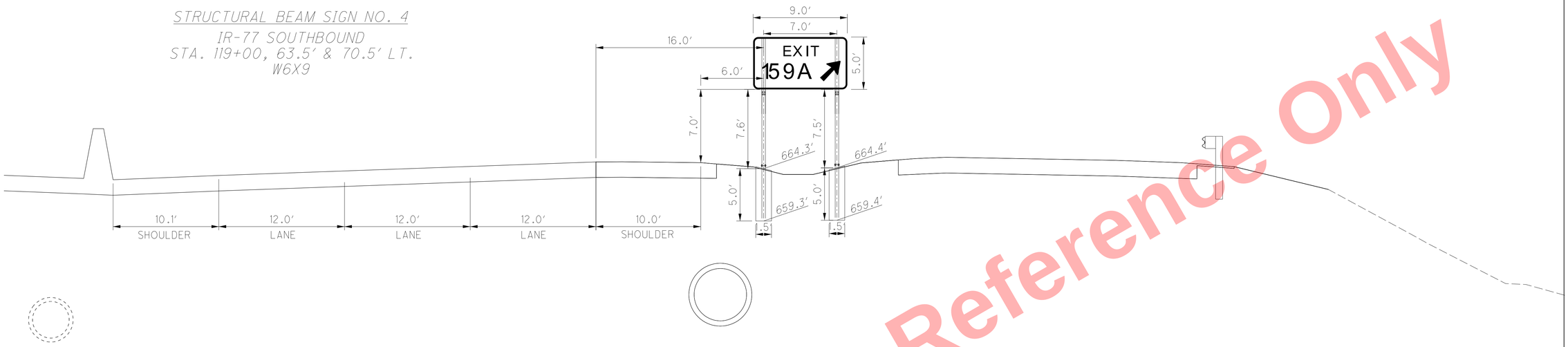
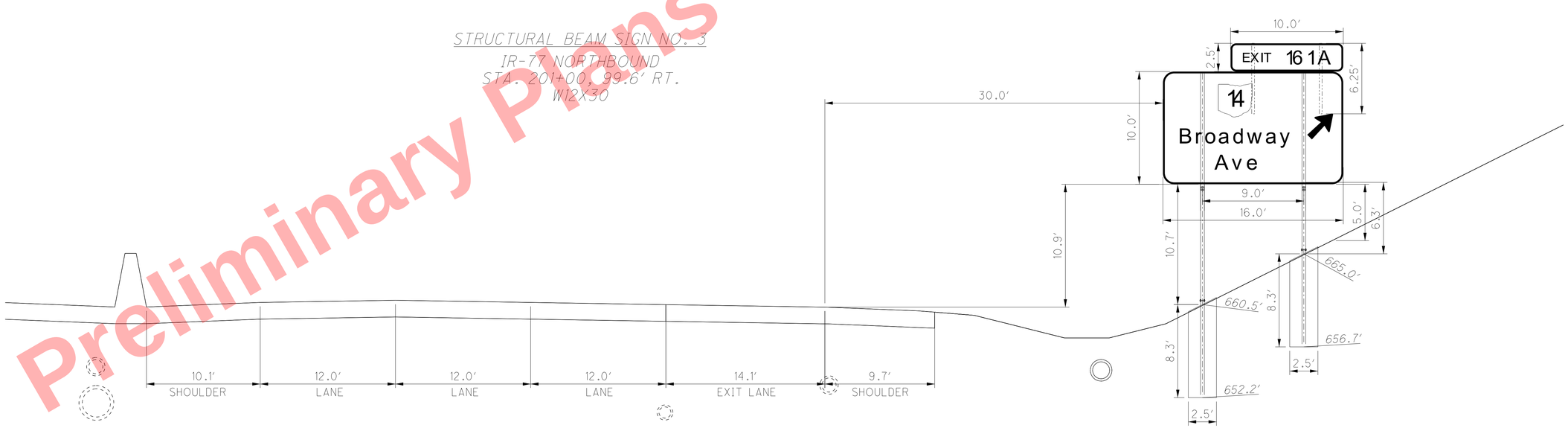
STRUCTURAL BEAM SIGN NO. 4

IR-77 SOUTHBOUND
STA. 119+00, 63.5' & 70.5' LT.
W6X9



STRUCTURAL BEAM SIGN NO. 3

IR-77 NORTHBOUND
STA. 201+00, 99.6' RT.
W12X30



Preliminary Plans - For Reference Only

TRAFFIC SIGNING PLAN - IR-77
TRUSS ELEVATION VIEWS

CUY-77-11.41 - PART 1

MODEL: TE0038 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:48:03 PM RETTIG, JACOB
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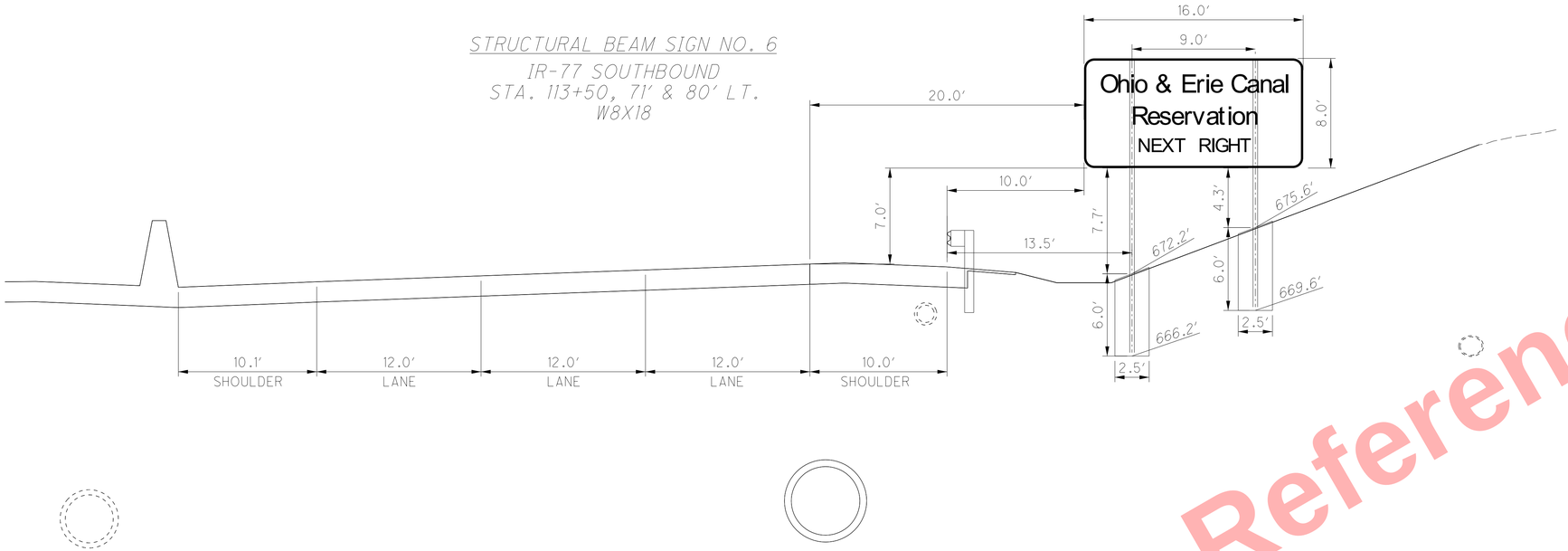
DESIGN AGENCY
Lanham Engineering LLC

DESIGNER	EO
REVIEWER	JML 04-24-26
PROJECT ID	105743
SUBSET	2
TOTAL	6
SHEET	P.1084
TOTAL	1269

Preliminary Plans - For Reference Only

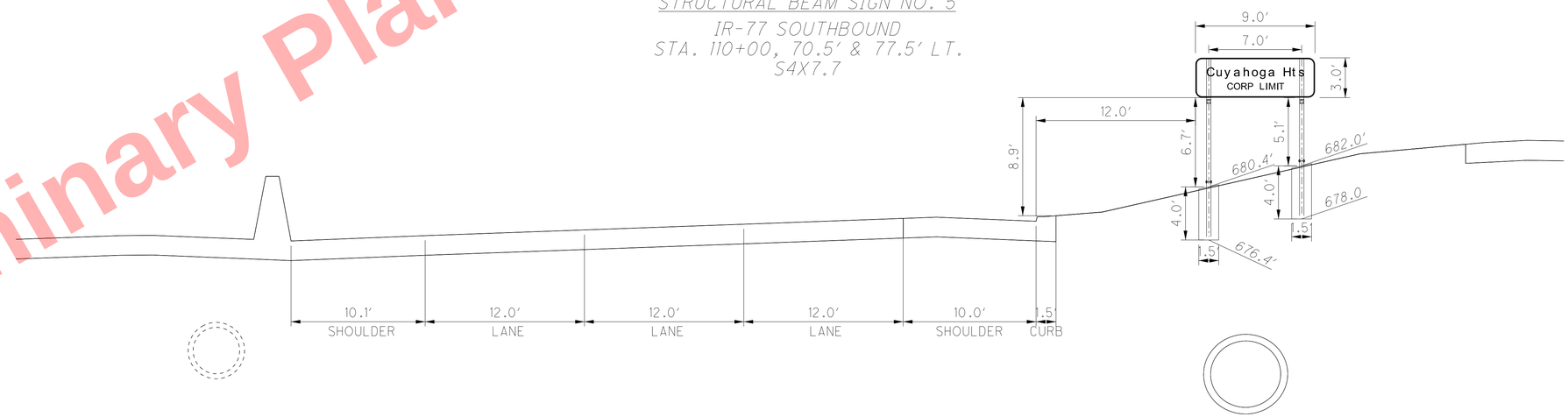
STRUCTURAL BEAM SIGN NO. 6

IR-77 SOUTHBOUND
STA. 113+50, 71' & 80' LT.
W8X18



STRUCTURAL BEAM SIGN NO. 5

IR-77 SOUTHBOUND
STA. 110+00, 70.5' & 77.5' LT.
S4X7.7



TRAFFIC SIGNING PLAN - IR-77
BEAM ELEVATION VIEWS

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER	EO
REVIEWER	JML 04-24-26
PROJECT ID	105743
SUBSET	3
TOTAL	6
SHEET	P.1085
TOTAL	1269

CUY-77-11.41 - PART 1

MODEL: TE003C PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:48:04 PM RETTIG, JACOB
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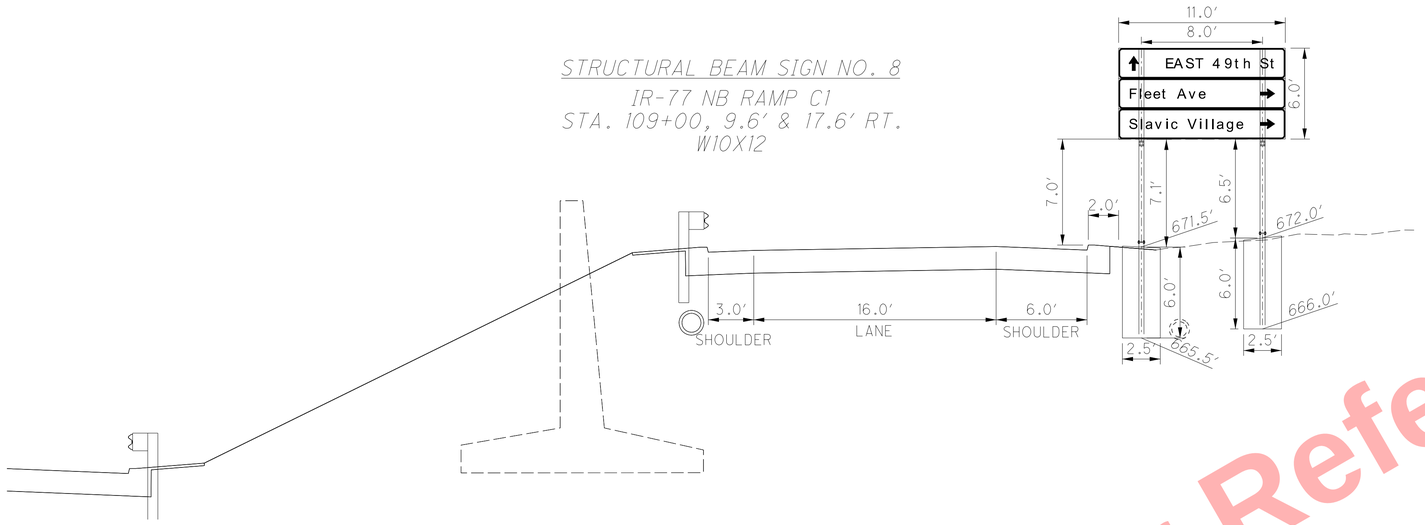
Preliminary Plans - For Reference Only

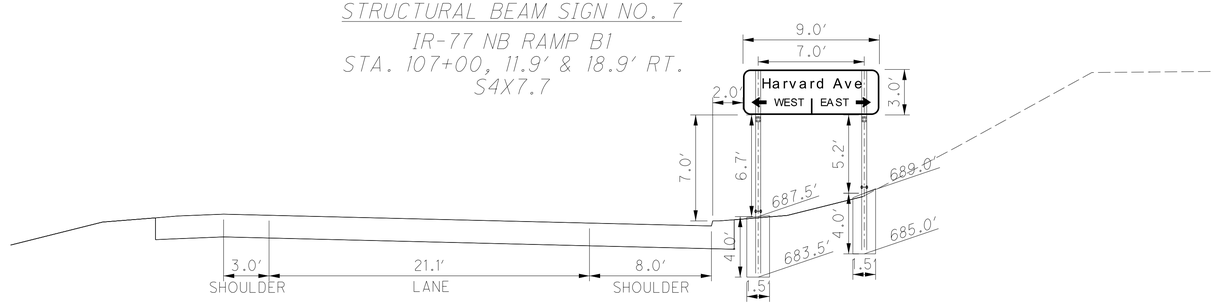
STRUCTURAL BEAM SIGN NO. 8

IR-77 NB RAMP C1
STA. 109+00, 9.6' & 17.6' RT.
W10X12



STRUCTURAL BEAM SIGN NO. 7

IR-77 NB RAMP B1
STA. 107+00, 11.9' & 18.9' RT.
S4X7.7



CUY-77-11.41 - PART 1

MODEL: TE003D PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:48:04 PM RETTIG, JACOB
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TRAFFIC SIGNING PLAN - IR-77
BEAM ELEVATION VIEWS

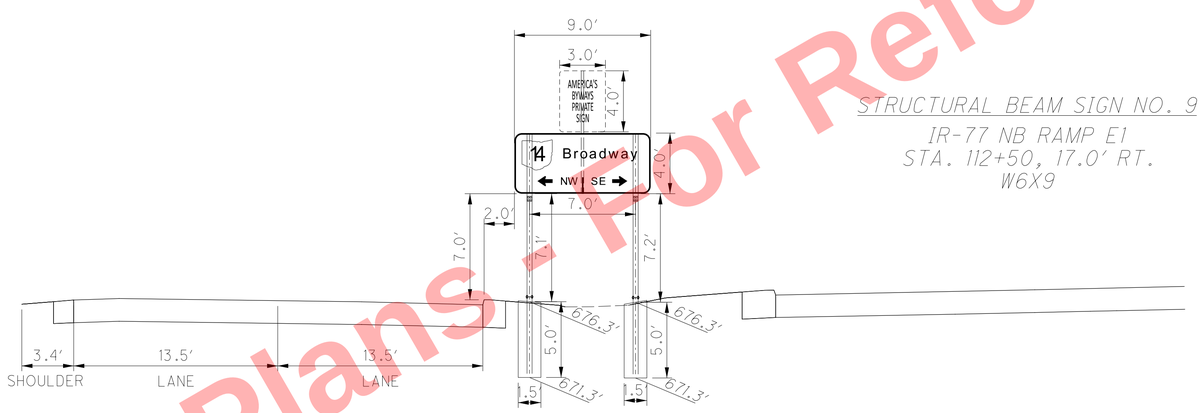
DESIGN AGENCY
Lanham Engineering LLC

DESIGNER	EO
REVIEWER	JML 04-24-26
PROJECT ID	105743
SUBSET	4
TOTAL	6
SHEET	P.1086
TOTAL	1269

Preliminary Plans - For Reference Only

STRUCTURAL BEAM SIGN NO. 9

IR-77 NB RAMP E1
STA. 112+50, 17.0' RT.
W6X9



TRAFFIC SIGNING PLAN - IR-77
BEAM ELEVATION VIEWS

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER
EO

REVIEWER
JML 04-24-26

PROJECT ID
105743

SUBSET 5 | TOTAL 6

SHEET P.1087 | TOTAL 1269

CUY-77-11.41 - PART 1

MODEL: TE003E PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:48:05 PM RETTIG, JACOB
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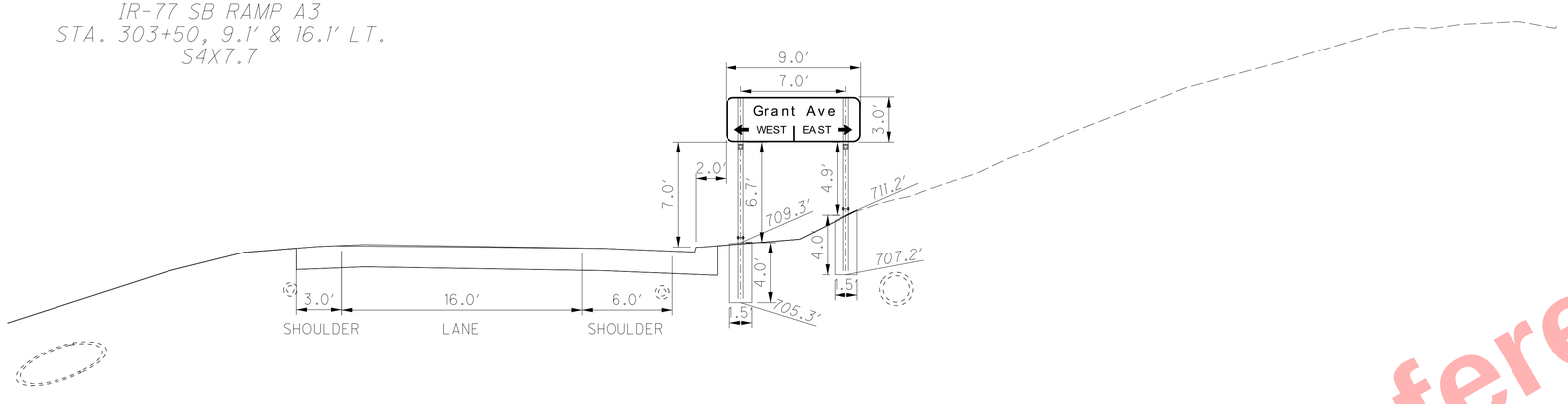
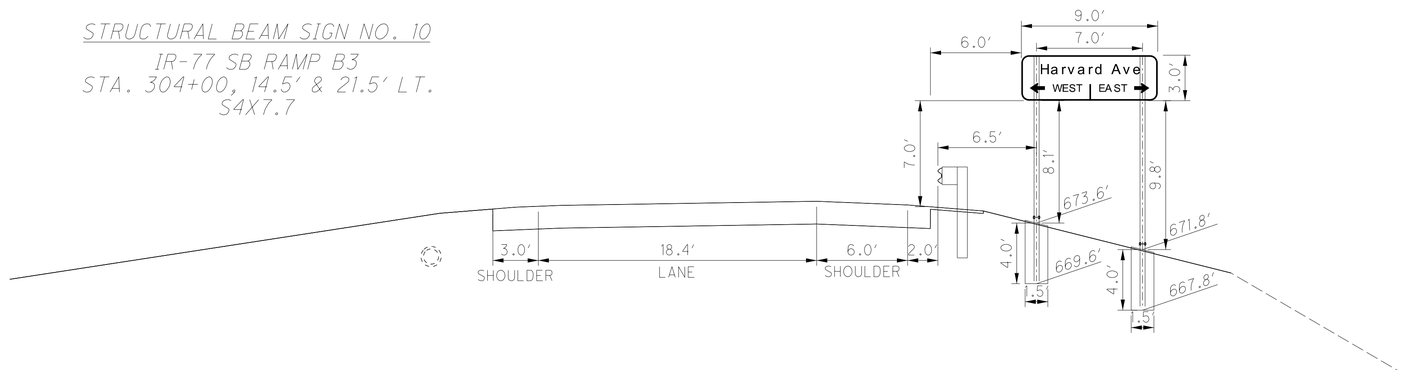
STRUCTURAL BEAM SIGN NO. 11

IR-77 SB RAMP A3
STA. 303+50, 9.1′ & 16.1′ LT.
S4X7.7



STRUCTURAL BEAM SIGN NO. 10

IR-77 SB RAMP B3
STA. 304+00, 14.5′ & 21.5′ LT.
S4X7.7



Preliminary Plans - For Reference Only

TRAFFIC SIGNING PLAN - IR-77
CANTILEVER ELEVATION VIEWS

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER	EO
REVIEWER	JML 04-24-26
PROJECT ID	105743
SUBSET	6
TOTAL	6
SHEET	P.1088
TOTAL	1269

CUY-77-11.41 - PART 1

MODEL: TE003F PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:48:05 PM RETTIG, JACOB
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PEDESTRIAN SIGNS



R9-3-18 R9-3bPL-18 (1)

R9-3-18 R9-3bPR-18 (2)

PEDESTRIAN SIGNAL HEAD



A A EAST/WEST

B NORTH/SOUTH

EX. PULL BOX
STA. 3+79, 31' RT.

EX. CONDUITS W/ EX. SIGNAL CABLES & W/(2)-5/C
DISTANCE = 7'

EX. CONDUITS W/ EX. SIGNAL CABLES & W/(2)-5/C
DISTANCE = 17'

EX. GROUND MOUNTED CONTROLLER
STA. 3+82, 48' RT.

PS-1 - PEDESTAL SUPPORT (SEE NOTE 2)
W/(1)-PEDESTRIAN SIGNAL HEAD
STA. 3+23, 42' LT.

(1)-2" CONDUIT W/(1)-5/C
IN TRENCH = 7'

PULL BOX, 24"
STA. 3+28, 47' LT.

(1)-2" CONDUIT W/(1)-5/C
IN TRENCH = 61'

EX. SIGNAL SUPPORT (SEE NOTES 1 & 2)
W/(1)-PEDESTRIAN SIGNAL HEAD
STA. 3+84, 34' LT.

EX. CONDUITS W/ EX. SIGNAL CABLES & W/(1)-5/C
DISTANCE = 58'

PULL BOX, 24"
STA. 3+88, 43' LT.

(1)-2" CONDUIT W/(1)-5/C
IN TRENCH = 10'

EX. PULL BOX
STA. 3+88, 33' LT.

EX. CONDUITS W/ EX. SIGNAL CABLES & W/(2)-5/C
DISTANCE = 58'

EX. PULL BOX
STA. 4+46, 35' LT.

EX. CONDUITS W/ EX. SIGNAL CABLES & W/(2)-5/C
DISTANCE = 71'

EX. PULL BOX
STA. 3+86, 31' RT.

EX. CONDUITS W/ EX. SIGNAL CABLES & W/(2)-5/C
DISTANCE = 48'

EX. PULL BOX
STA. 4+34, 36' RT.

FLEET AVE.

I-77 NB ON-RAMP

INDEPENDENCE RD.

E. 49TH ST.

300

301

113

114

4

Ex LA-R/W

FOctv

N

HORIZONTAL SCALE IN FEET
0 5 10 20

LEGEND

	EXISTING	PROPOSED
SIGNAL SUPPORT POLE		
PEDESTRIAN SIGNAL HEAD		
PEDESTAL SUPPORT		
CONTROLLER AND WORK PAD		
TRAFFIC PULL BOX	TR	TR

NOTES:

1. WITH APPROVAL FROM THE ENGINEER, THE CONTRACTOR SHALL FIELD DRILL, ATTACH, AND WIRE THE PEDESTRAIN SIGNAL HEAD TO THE EXISTING SIGNAL SUPPORT AS INDICATED ON THIS SHEET.

2. ATTACHMENT HARDWARE SHALL BE PAINTED TO MATCH THE EXISTING ATTACHMENTS ALREADY AT THIS INTERSECTION. THE CONTRACTOR SHALL SUBMIT A PAINT SAMPLE TO THE ENGINEER FOR APPROVAL PRIOR TO PAINTING AND INSTALLING THE PEDESTRIAN SIGNAL HEADS AND ATTACHMENT ASSEMBLIES.

Preliminary Plans - Not For Reference Only

TRAFFIC SIGNAL MODIFICATIONS
FLEET AVE. AT IR-77 NORTHBOUND RAMPS

DESIGN AGENCY
Lanham Engineering LLC

DESIGNER	JAR
REVIEWER	DKA 04-24-26
PROJECT ID	105743
SUBSET	27
TOTAL	28
SHEET	P.1090
TOTAL	1269

CUY-77-11.41

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:48:18 PM RETTIG, JACOB
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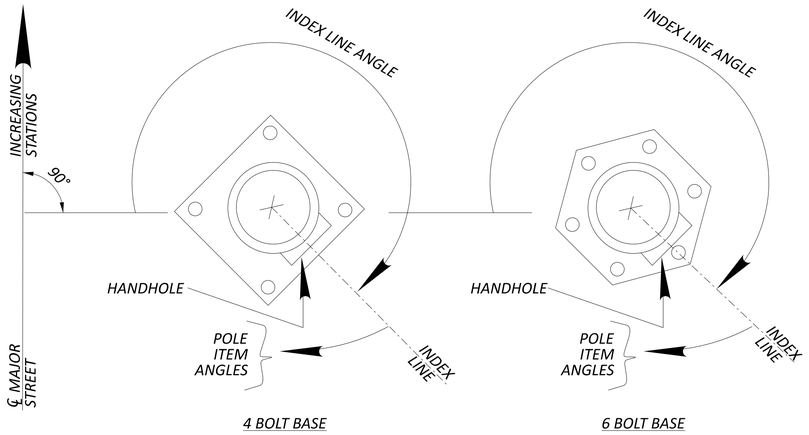
POLE ORIENTATION



POLE ORIENTATION DATA

REFERENCE SHEET NO.*	STATION & OFFSET*	POLE NO.	DESIGN NO.	POLE HEIGHT (FT.)	FOUNDATION ELEV.*	INDEX LINE ANGLE / MAST ARM 'A' ANGLE (DEG.)	ANGLES (DEG.) FROM INDEX LINE			
							PROPOSED PEDESTRIAN SIGNAL HEAD			
	3+84, 34' LT	EX-SP	EX.			270	92	-	-	-
P.1090										
	3+23, 42' LT	PS-1	-	8	*	176	183	-	-	-

* PEDESTAL FOUNDATION TO BE FLUSH WITH BACK OF WALK

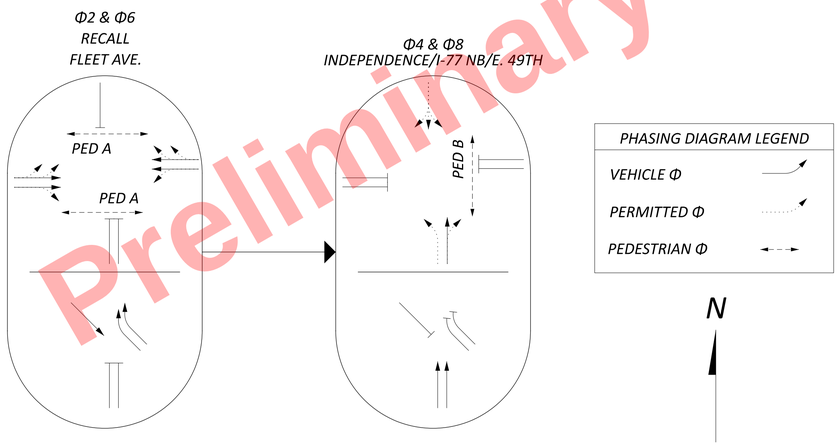
FIELD WIRING HOOK-UP CHART

PEDESTRIAN MOVEMENTS			
A - A (W-E)	DW	OLB R (2 + 6)	OUT
	FDW	OLB Y (2 + 6)	
	W	OLB G (2 + 6)	

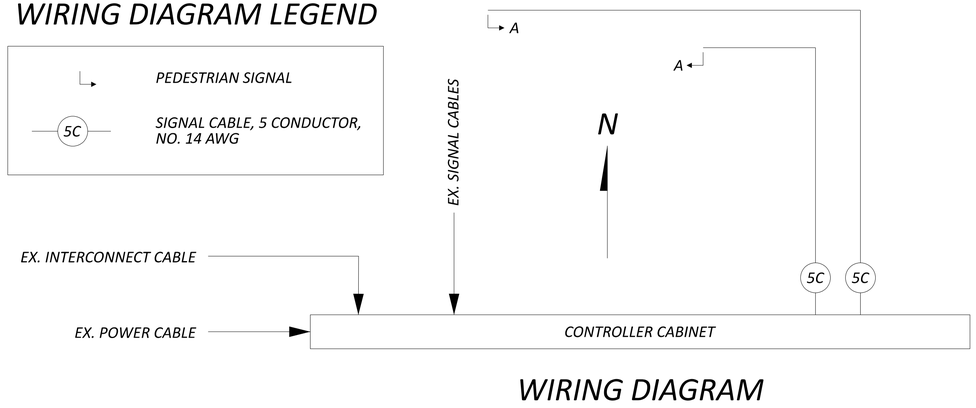
SIGNAL SUBSUMMARY

LOCATION	625 CONDUIT, 2", 725.051	625 TRENCH	625 PULL BOX, 725.08, 24"	625 GROUND ROD	630 SIGN, FLAT SHEET	632 PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN	632 PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	632 SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	632 PEDESTAL FOUNDATION	632 PEDESTAL, 10.7' TALL, W/ TRANSFORMER BASE	630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED
	FT	FT	EACH	EACH	SF	EACH	EACH	FT	EACH	EACH	EACH
FLEET AVE. AT IR-77 NB RAMPS	80	80	2	1	7.5	1	1	600	1	1	2
TOTALS CARRIED TO GENERAL SUMMARY	80	80	2	1	7.5	1	1	600	1	1	2

PHASING DIAGRAM



WIRING DIAGRAM LEGEND



WIRING DIAGRAM

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 .25 .5 1

TRAFFIC SIGNAL DETAILS
FLEET AVE. AT IR-77 NORTHBOUND RAMPS

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER JAR
REVIEWER DKA 04-24-26
PROJECT ID 105743
SUBSET 28 TOTAL 28
SHEET P.1091 TOTAL 1269

CUY-77-11.41

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 12:48:24 PM RETTIG, JACOB
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AS-BUILT CONSTRUCTION PLANS

THE CONTRACTOR SHALL PROVIDE AS-BUILT CONSTRUCTION PLANS OF THE ITS INFRASTRUCTURE INSTALLED ON THE PROJECT WITH GPS COORDINATE DATA, PICTURES, AND INFORMATION ACCORDING TO ODOT SUPPLEMENTAL SPECIFICATION 809.

DMS SUPPORT STRUCTURES

THE CONTRACTOR SHALL FURNISH AND INSTALL THIS ITEM ACCORDING TO ODOT SUPPLEMENTAL SPECIFICATION 809, AS WELL AS ANY STANDARD CONSTRUCTION DRAWINGS NOTED ON THE PLANS.

THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS TO THE PROJECT ENGINEER FOR APPROVAL. THE DRAWINS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER FROM THE MANUFACTURER. THE ITEM SHALL NOT BE RELEASED FOR CONSTRUCTION UNTIL APPROVED BY THE OFFICE OF TSMO - ITS SECTION.

ITS JUNCTION BOX

THE CONTRACTOR SHALL FURNISH AND INSTALL THESE ITEMS ACCORDING TO ODOT SUPPLEMENTAL SPECIFICATION 809, AS WELL AS ANY STANDARD CONSTRUCTION DRAWINGS NOTED ON THE PLANS.

ITS MEDIAN WALL RACEWAY AND CONDUIT SYSTEM

THIS IS A FIELD CONSTRUCTION MULTI-CELL CONDUIT SYSTEM CONSISTING OF ONE 2-INCH HDPE MEDIAN WALL RACEWAY AND TWO 2-INCH HDPE LATERALS FROM THE MEDIAN WALL UNCTION BOXES TO 32" PULL BOXES IN THE SHOULDER WITH CONTINUOUS MICRO-DUCT INNERDUCTS INSTALLED IN THE RACEWAY AND LATERALS.

ONE 2-INCH HDPE CONDUIT SHALL BE INSTALLED IN THE MEDIAN BARRIER WALL PER ODOT STANDARD CONSTRUCTION DRAWINGS ITS-14.50 AND ITS 14-60. TWO 2-INCH HDPE CONDUITS SHALL BE INSTALLED FOR LATERAL CROSSINGS FROM THE MEDIAN WALL JUNCTION BOXES TO 32" PULL BOXES IN THE SHOULDER.

2-INCH HDPE CONDUITS SHALL CONFORM TO SUPPLEMENTAL SPECIFICATION 909.12 C.

INSTALL 4-14MM/1-MM (OD/ID) MICRO DUCTS LISTED ON THE TAP CONFORMING TO ODOT SUPPLEMENTAL SPECIFICATION 909.14B IN THE MEDIAN WALL RACEWAY AND LATERAL CROSSINGS. USE THE COLORS BLUE, ORANGE, GREEN, AND BROWN TO IDENTIFY THE MICRO-DUCTS. INSTALL PER ODOT STANDARD CONSTRUCTION DRAWINGS ITS-14.50 AND ITS-14.60. THE MICR0DUCTS SHALL BE CONTINUOUS, UNSPLICED/UNCOUPLED SEGMENTS FROM 32" PULL BOX IN THE SHOULDER THROUGH THE LATERAL CROSSINGS, MEDIAN WALL RACEWAY, AND MEDIAN WALL JUNCTION BOXES TO THE NEXT 32" PULL BOX IN THE SHOULDER. CONTINUOUS MICRO-DUCT SEGMENTS SHALL NOT EXCEED 4500".

MICRO-DUCTS SHALL NOT BE CAPPED/PLUGGED DURING INSTALLATION TO PREVENT LIQUID AND DEBRIS FROM CONTAMINATING THE MICRO-DUCTS AND IMPEDING FIBER OPTIC CABLE INSTALLATION. IMMEDIATELY AFTER INSTALLATION THE MICRO-DUCTS SHALL BE CAPPED WITH MANUFACTURER RECOMMENDED PUSH-ON CAPS.

MAINTAINING ITS DURING CONSTRUCTION

THE CONTRACTOR SHALL MAINTAIN ALL PREEXISTING OR NEWLY INSTALLED PERMANENT ITS/TRAFFIC DEVICES AND INFRASTRUCTURE DURING CONSTRUCTION ACCORDING TO ODOT SUPPLEMENTAL SPECIFICATION 809.

THE NEW NORTHBOUND DMS INSTALLATION SHALL BE MADE ACTIVE BEFORE THE EXISTING SITE IS REMOVED.

DOWNTIME OF CCTV SITES SHALL BE PER SUPPLEMENTAL SPECIFICATION 809.

COORDINATE WITH ODOT ITS TO ESTABLISH COMMUNICATIONS LINKS TO NEW ITS DEVICES PRIOR TO DISRUPTING EXISTING SERVICES.

ITEM 625, CONDUIT, 3", 725.052, AS PER PLAN

ITEM 625, CONDUIT, CONCRETE ENCASED, AS PER PLAN, 2"

ITEM 625, CONDUIT, JACKED ON DRILLED, 725.052, AS PER PLAN, 2"

ITEM 625, CONDUIT, JACKED ON DRILLED, 725.052, AS PER PLAN, 3"

THESE ITEMS SHALL MEET ALL REQUIREMENTS OF C&MS 625, EXCEPT THAT THE CONDUIT MATERIAL SHALL BE AS PER SUPPLEMENTAL SPECIFICATION 909.14 C.2.

THE WORK AS DESCRIBED SHALL BE PAID PER LINEAR FOOT OF CONDUIT INSTALLED, AND SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NEEDED TO PERFORM THE WORK AS DESCRIBED.

ITEM 625, CONDUIT, MISC.: CONDUIT REMOVED

AT LOCATIONS IDENTIFIED IN THE PLANS, REMOVE AND DISPOSE OF EXISTING CONDUITS. WHERE CONDUITS TO BE REMOVED TIE IN TO PULL BOXES TO REMAIN, REMOVE THE CONDUIT FROM THE PULL BOX KNOCKOUT AND FILL THE VOID WITH MORTAR.

REMOVAL AND DISPOSAL OF ALL CABLES THAT ARE PRESENT IN CONDUITS TO BE REMOVED IS INCLUDED IN THIS ITEM. SOME CABLES TO BE REMOVED MAY BE ACTIVE UNTIL THE NEW INFRASTRUCTURE HAS BEEN CONSTRUCTED AND MADE ACTIVE. OBTAIN APPROVAL FROM ODOT ITS PRIOR TO BEGINNING REMOVAL WORK.

CONDUIT REMOVAL WILL BE MEASURED PER RUN OF THE CONDUIT REMOVED AS IDENTIFIED ON THE PLAN SHEETS. IF MULTIPLE CONDUITS ARE PRESENT IN THE RAME CONDUIT RUN, THE REMOVAL OF ALL CONDUITS WILL BE MEASURED AS ONE LINEAR DISTANCE.

THE WORK AS DESCRIBED SHALL BE PAID PER LINEAR FOOT OF CONDUIT RUNS REMOVED, AND SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NEEDED TO PERFORM THE WORK. EXCAVATION, BACKFILLING, AND SITE RESTORATION SHALL BE INCLUDED IN THIS ITEM, AND NO ADDITIONAL PAYMENT WILL BE MADE.

ITEM 625, PULL BOX, MISC.: PULL BOX ADJUSTED TO GRADE

AT LOCATIONS IDENTIFIED IN THE PLANS, ADJUST EXISTING PULL BOXES TO GRADE ACCORDING TO THE FOLLOWING PROCEDURES:

REMOVE THE PULL BOX AND ADD CRUSHED AGGREGATE AS NEEDED TO RESET THE PULL BOX AT THE NEW GRADE.

DO NOT DISTURB CABLES INSIDE THE PULL BOX UNLESS DEVICE DOWNTIME IS COORDINATED WITH ODOT ITS. CABLES THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE IN ORDER TO MEET THE DOWNTIME REQUIREMENTS OF SUPPLEMENTAL SPECIFICATION 809. IF REQUIRED. ADDITIONAL REMEDIES WILL BE AS DIRECTED BY THE ENGINEER.

THE WORK AS DESCRIBED SHALL BE PAID PER EACH PULL BOX ADJUSTED TO GRADE, AND SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NEEDED TO PERFORM THE WORK.

ITEM 625, PULL BOX, MISC.: ENCOMPASSING WORK PAD FOR ITS INSTALLATION

AT LOCATIONS IDENTIFIED IN THE PLANS, PROVIDE AN ITS WORK PAD MEETING THE REQUIREMENTS OF STANDARD DRAWINGS ITS-10.11 AND ITS-50.12. THIS ITEM SHALL BE USED FOR PAYMENT WHEN NO NEW CCTV POLE IS PROVIDED. ENCOMPASSING WORK PADS AT NEW CCTV POLE INSTALLATIONS ARE INCIDENTAL TO THE CCTV POLE PAY ITEM PER SUPPLEMENTAL SPECIFICATION 809.

THE WORK AS DESCRIBED SHALL BE PAID PER EACH WORK PAD INSTALLED, AND SHALL INCLUDE ALL ALBOR, EQUIPMENT, AND MATERIALS NEEDED TO PERFORM THE WORK.

ITEM 809, CCTV POLE, 70 FEET TALL

THE CONTRACTOR SHALL FURNISH AND INSTALL THIS ITEM ACCORDING TO ODOT SUPPLEMENTAL SPECIFICATION 809, AS WELL AS ANY STANDARD CONSTRUCTION DRAWINGS NOTED ON THE PLANS. THE CONTRACTOR SHALL DETERMINE WHICH TYPE OF POLE TO FURNISH AND INSTALL (CONCRETE OR STEEL) WHEN BIDDING ON THIS ITEM. THE POLE AND FOUNDATION/EMBEDMENT ARE INCIDENTAL TO THIS ITEM REGARDLESS OF MATERIAL TYPE. THE CONTRACTOR SHALL ALSO PROVIDE AND INSTALL ONE COMPLETE LOWERING UNIT TOOL ASSEMBLY PER CAMERA FOR LOWERING CAMERAS PER SUPPLEMENTAL SPECIFICATION 809 (PAID SEPARATELY).

THE CONTRACTOR SHALL FURNISH/INSTALL POLES WITH THE CORRECT LENGTH/EMBEDMENT AND ALL COUPLINGS, HANDHOLES, ETC., IN THE APPROPRIATE LOCATION ABOVE GROUND ACCORDING TO SCD ITS-12.10 OR ITS-12.11.

FOR THIS SITE, LOCATED AT PERSHING AVENUE, THE POLE HEIGHT SHALL BE 70 FT ABOVE GROUND. THE EMBEDMENT DEPTH FOR A CONCRETE POLE SHALL BE 25 FT. A SPECIAL FOUNDATION DESIGN IS NOT REQUIRED FOR A STEEL POLE.

THE CONTRACTOR MAY FURNISH/INSTALL LONGER OVERALL LENGTH CONCRETE POLES AT A DEEPER EMBEDMENT DEPTH IF IT IS MORE BENEFICIAL FOR MANUFACTURING, SHIPPING, ETC., AS LONG AS ALL ABOVE GROUND COMPONENTS MAINTAIN APPROPRIATE HEIGHT LEVEL.

THE CONTRACTOR SHALL SUBMIT ALL POLE MANUFACTURER FABRICATION DRAWING SUBMITTALS, AS WELL AS INSTALLATION PROCEDURES AND BACKFILL MATERIAL, TO THE ENGINEER FOR ACCEPTANCE BEFORE ORDERING.

PAYMENT FOR EACH POLE COMPLETE, INSTALLED, AND ACCEPTED SHALL BE MADE AT THE UNIT BID PRICE FOR ITEM 809, CCTV POLE, 70' TALL.

ITEM 809, CONDUIT, 4", MULTICELL, HDPE WITH 4 1"INNERDUCTS

ITEM 809, CONDUIT, 4", MULTICELL, HDPE, JACKED OR DRILLED

THE CONTRACTOR SHALL FURNISH AND INSTALL THESE ITEMS ACCORDING TO ODOT SUPPLEMENTAL SPECIFICATION 809, AS WELL AS ANY STANDARD CONSTRUCTION DRAWINGS NOTED ON THE PLANS.

ITEM 809, ITS DEVICE, MISC.: REMOVAL OF ITS CABINET

AT LOCATIONS IDENTIFIED IN THE PLANS, REMOVE EXISTING ITS CABINETS. COORDINATE WITH ODOT ITS PRIOR TO REMOVAL. IF REQUESTED, RETAIN THE CABINETS AND/OR EQUIPMENT FOR SALVAGE BY ODOT AND DISPOSE OF UNWANTED MATERIALS. REMOVE AND DISPOSE OF ALL MOUNTING HARDWARE AND CONDUIT CONNECTIONS. WHEN REMOVING A POLE-MOUNTED CABINET FROM A POLE TO REMOAIN, PLUG ANY HOLES AS DIRECTED BY THE ENGINEER.

THE WORK AS DESCRIBED SHALL BE PAID PER EACH ABINET REMOVED, AND SHALL INCLUDE ALL ABOR, EQUIPMENT, AND MATERIALS NEEDED TO PERFORM THE WORK.

ITEM 809, ITS DEVICE, MISC.: REMOVAL OF CCTV POLE, CAMERA, FOUNDATION, AND CABINET ASSEMBLY

ITEM 809, ITS DEVICE, MISC.: REMOVAL OF DMS SUPPORT STRUCTURE, FOUNDATIONS, AND CABINET ASSEMBLY

REMOVE AND DISPOSE OF EXISTING ITS DEVICE SUPPORT STRUCTURES AS IDENTIFIED IN THE PLANS, INCLUDING BUT NOT LIMITED TO POLES, TRUSSES, CATWALKS, LADDERS, CONDUITS, CABLES, AND OTHER MISCELLANEOUS ATTACHMENTS.

SALVAGE AND DELIVER ITS DEVICES WHERE NOTED IN THE PLANS.

REMOVE FOUNDATIONS IN UNPAVED AREAS TO A MINIMUM OF 24" BELOW FINISHED GRADE.

THE WORK DESCRIBED SHALL BE MEASURED PER EACH INSTALLATION REMOVED.

ITEM 809, ITS DEVICE, MISC.: REMOVAL AND DELIVERY OF CCTV AND LOWERING UNIT

ITEM 809, ITS DEVICE, MISC.: REMOVAL AND DELIVERY OF DYNAMIC MESSAGE SIGN

REMOVE AND SALVAGE THESE DEVICES AND DELIVER TO ODOT IN GOOD WORKING ORDER. CONTACT ODOT ITS AT LEAST TEN BUSINESS DAYS IN ADVANCE TO SCHEDULE DELIVERY. DELIVER MATERIALS TO:

ODOT ITS
1606 WEST BROAD ST.
COLUMBUS, OH 43223
PH: (614) 387-4113
EMAIL: CEN.ITS.LAB@DOT.OHIO.GOV

MATERIAL THAT IS DAMAGED DURING REMOVAL OR TRANSPORT WILL NOT BE SUBJECT TO PAYMENT.

THE WORK AS DESCRIBED SHALL BE MEASURED PER EACH DEVICE REMOVED AND DELIVERED.

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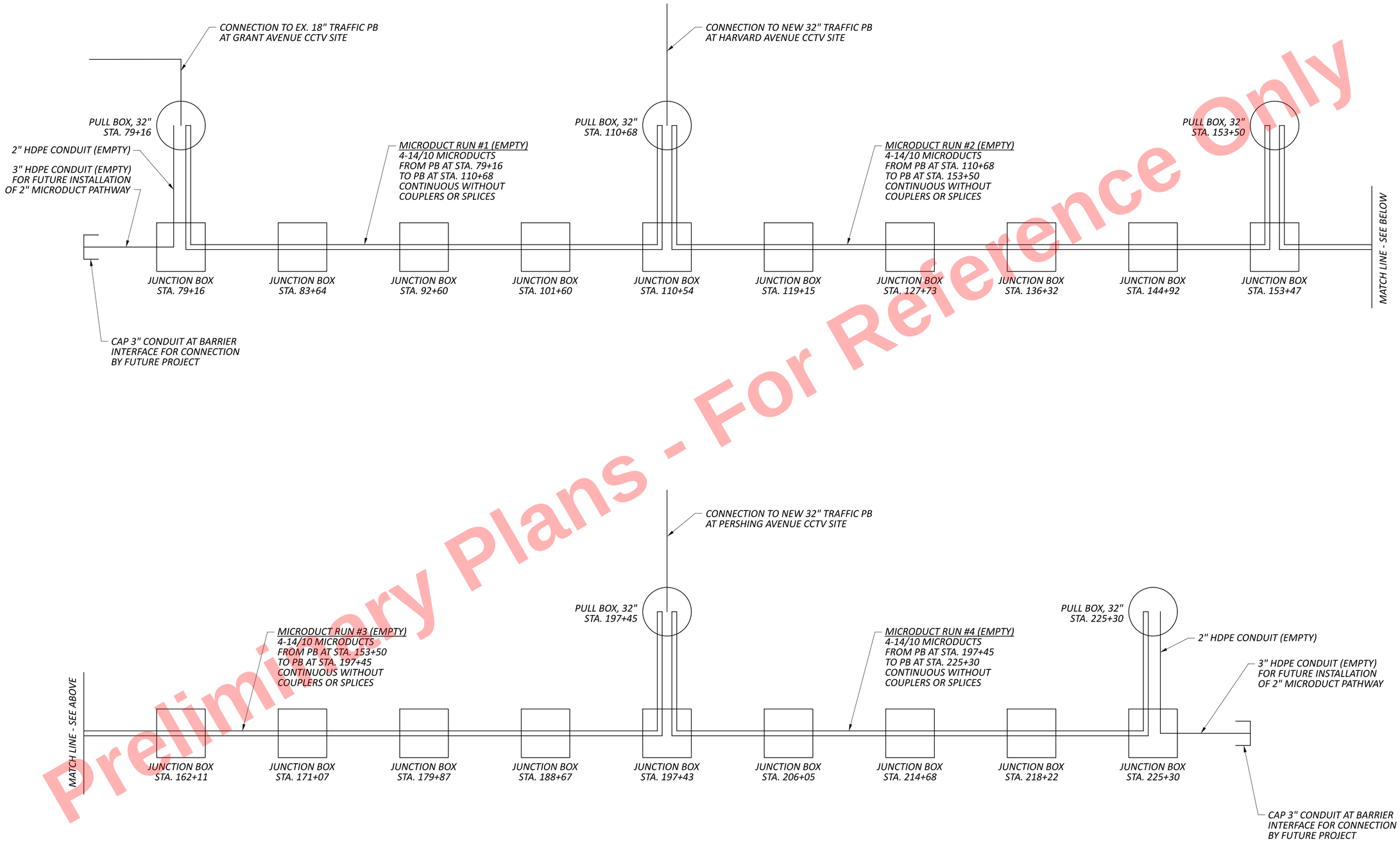
DESIGN AGENCY
HNTB

DESIGNER
NSJ

REVIEWER
NRS 10/31/25

PROJECT ID
105743

SHEET P.1092 TOTAL P.1269



Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - General Notes PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 2:12:50 AM USER: kperkins
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ITS PLAN
MICRODUCT DETAILS

DESIGN AGENCY	HNTB
DESIGNER	NSJ
REVIEWER	NRS 10/31/25
PROJECT ID	105743
SHEET	P.1093
TOTAL	P.1269

ITS SUBSUMMARY

SHEET NO.	STATION TO STATION			625 NO. 1/0 AWG 2400 VOLT DISTRIBUTION CABLE FT	625 NO. 2 AWG 2400 VOLT DISTRIBUTION CABLE FT	625 CONDUIT, 3", 725.052, AS PER PLAN FT	625 CONDUIT, JACKED OR DRILLED, 725.052, AS PER PLAN, 2" FT	625 CONDUIT, JACKED OR DRILLED, 725.052, AS PER PLAN, 3" FT	625 CONDUIT, MISC.:CONDUIT REMOVED FT	625 CONDUIT, CONCRETE ENCASED, AS PER PLAN, 2" FT	625 TRENCH FT	625 PULL BOX, 725.08, 18" EACH	625 PULL BOX REMOVED EACH	625 PULL BOX, MISC.:ENCOMPASSING WORK PAD FOR ITS INSTALLATION EACH	625 PULL BOX, MISC.:PULL BOX ADJUSTED TO GRADE EACH	625 GROUND ROD EACH	625 POWER SERVICE REMOVED EACH	630 OVERHEAD SIGN SUPPORT, DMS PEDESTAL EACH	630 CATWALK, DMS PEDESTAL EACH	630 OVERHEAD SIGN SUPPORT FOUNDATION, DMS PEDESTAL EACH	633 CABINET FOUNDATION EACH	809 ITS JUNCTION BOX, 17x24x6 INCHES EACH	809 ITS PULL BOX WITH PAD AND STANDARD LID ASSEMBLY, 32" WIDE, TYPE 1 EACH	809 ITS PULL BOX WITH PAD AND HINGED LID ASSEMBLY, 32" WIDE, TYPE 1 EACH	809 MICRO-DUCT INNERDUCT, 1¼0 FT	809 CONDUIT, 2" DIAMETER, HDPE FT	809 CONDUIT, MULTICELL, JACKED OR DRILLED, 4" FT	809 CONDUIT, 4", MULTICELL, HDPE WITH 4 – 1" INNERDUCTS FT	809 ITS POWER SERVICE, POLE MOUNTED, 240/480V, 100 AMP EACH	809 CCTV IP-CAMERA SYSTEM, PTZ EACH	809 CCTV POLE, 70' TALL EACH	809 DYNAMIC MESSAGE SIGN (DMS), FULL-SIZE WALK-IN EACH	809 ETHERNET CABLE, OUTDOOR-RATED FT	809 ITS CABINET - GROUND MOUNTED EACH	809 ITS CABINET - DMS EACH	809 STEP-DOWN TRANSFORMER, 7.5 KVA EACH	809 ITS DEVICE, MISC.:REMOVAL AND DELIVERY OF CCTV AND LOWERING UNIT EACH	809 CCTV LOWERING UNIT EACH	809 ITS DEVICE, MISC.:REMOVAL AND DELIVERY OF DYNAMIC MESSAGE SIGN EACH	809 ITS DEVICE, MISC.:REMOVAL OF CCTV POLE, CAMERA, FOUNDATION, AND CABINET ASSEMBLY EACH	809 ITS DEVICE, MISC.:REMOVAL OF DMS SUPPORT STRUCTURE, FOUNDATIONS, AND CABINET ASSEMBLY EACH	809 ITS DEVICE, MISC.:REMOVAL OF ITS CABINET EACH
P.1096	49+00	TO	61+50	3,564	408	1,164		1,026			603	4				6		1	1	1	1		4			37	586	582				1			1	1								
P.1097	61+50	TO	74+00	681	84	444					245	1											1			23		222	1														
P.1098	74+00	TO	86+50				136				395		1									2		2	3,212			395															
P.1099	86+50	TO	99+00																			1			5,000																	
P.1100	99+00	TO	111+50				182						1	1	1	1					1	2	1		5,728					1			150	1			1	1				1
P.1101	111+50	TO	124+00																			1			5,000																	
P.1102	124+00	TO	136+50																			2			5,000																	
P.1103	136+50	TO	149+00						66				2				1					1			5,000														1			1	
P.1104	149+00	TO	161+50				200															1	1		5,800																	
P.1105	161+50	TO	174+00																			2			5,000																	
P.1106	174+00	TO	186+50																			1			5,000																	
P.1107	186+50	TO	199+00				146		131		58		1		1	2					1	2	1	1	5,584			58		1	1		150	1			1	1		1			
P.1108	199+00	TO	211+50																			1			5,000																	
P.1109	211+50	TO	225+00							355	355											2			5,404																	
P.1110	225+00	TO	237+50				148															1		1	416																	
TOTALS CARRIED TO GENERAL SUMMARY				4,245	492	1,608	812	1,026	197	355	1,656	5	5	1	2	9	1	1	1	1	3	19	8	4	61,144	60	586	1,257	1	2	1	1	300	2	1	1	2	2	1	1	1	1

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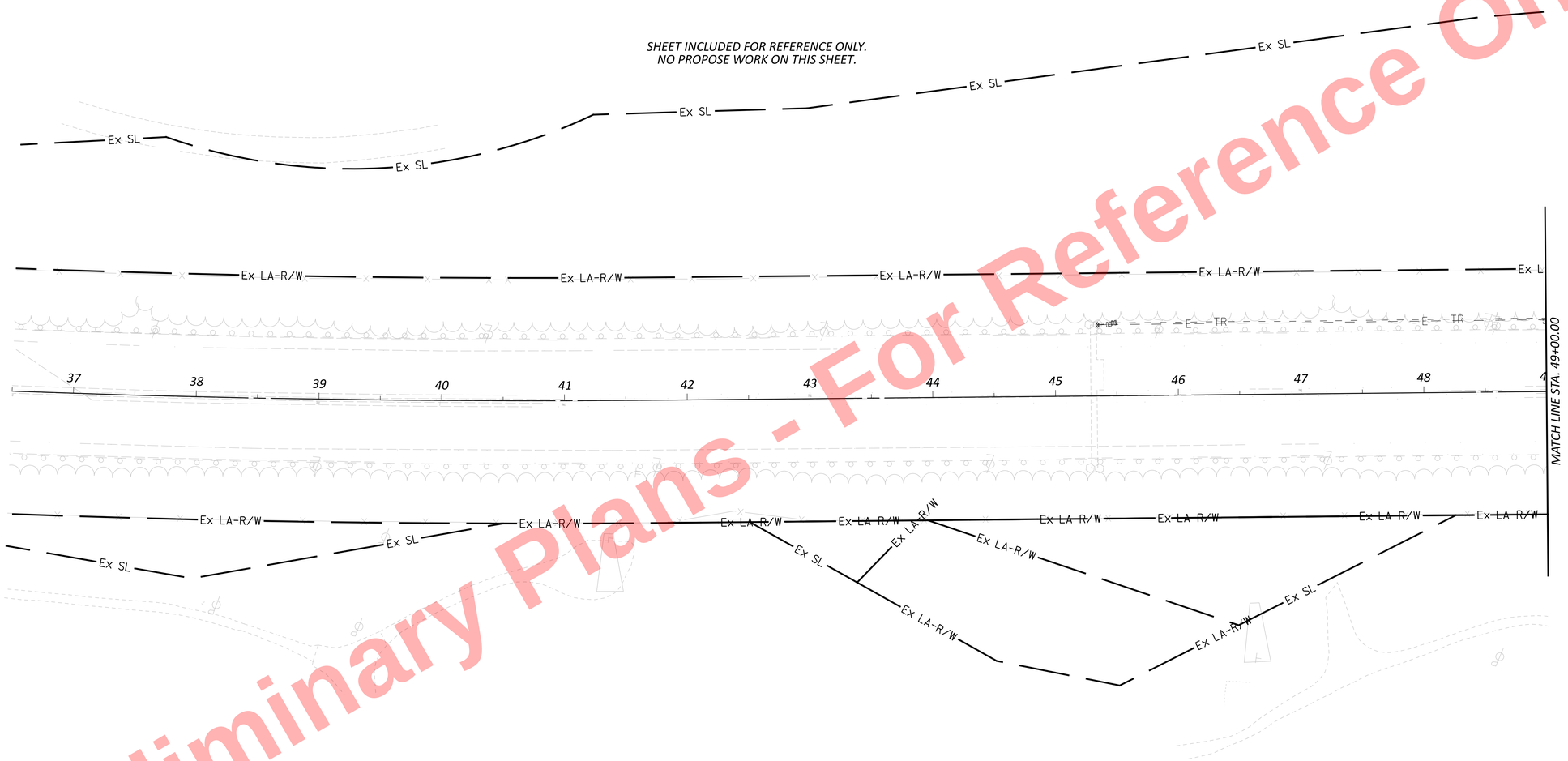
DESIGN AGENCY
HNTB

DESIGNER NSJ
REVIEWER NRS 10/31/25
PROJECT ID 105743
SHEET P.1094 TOTAL P.1269

SHEET INCLUDED FOR REFERENCE ONLY.
NO PROPOSE WORK ON THIS SHEET.



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

ITS PLAN
STA. 36+50 TO STA. 49+00

DESIGN AGENCY
HNTB

DESIGNER NSJ
REVIEWER NRS 10/31/25
PROJECT ID 105743
SHEET P.1095 TOTAL P.1269

CUY-77-11.41 - PART 1

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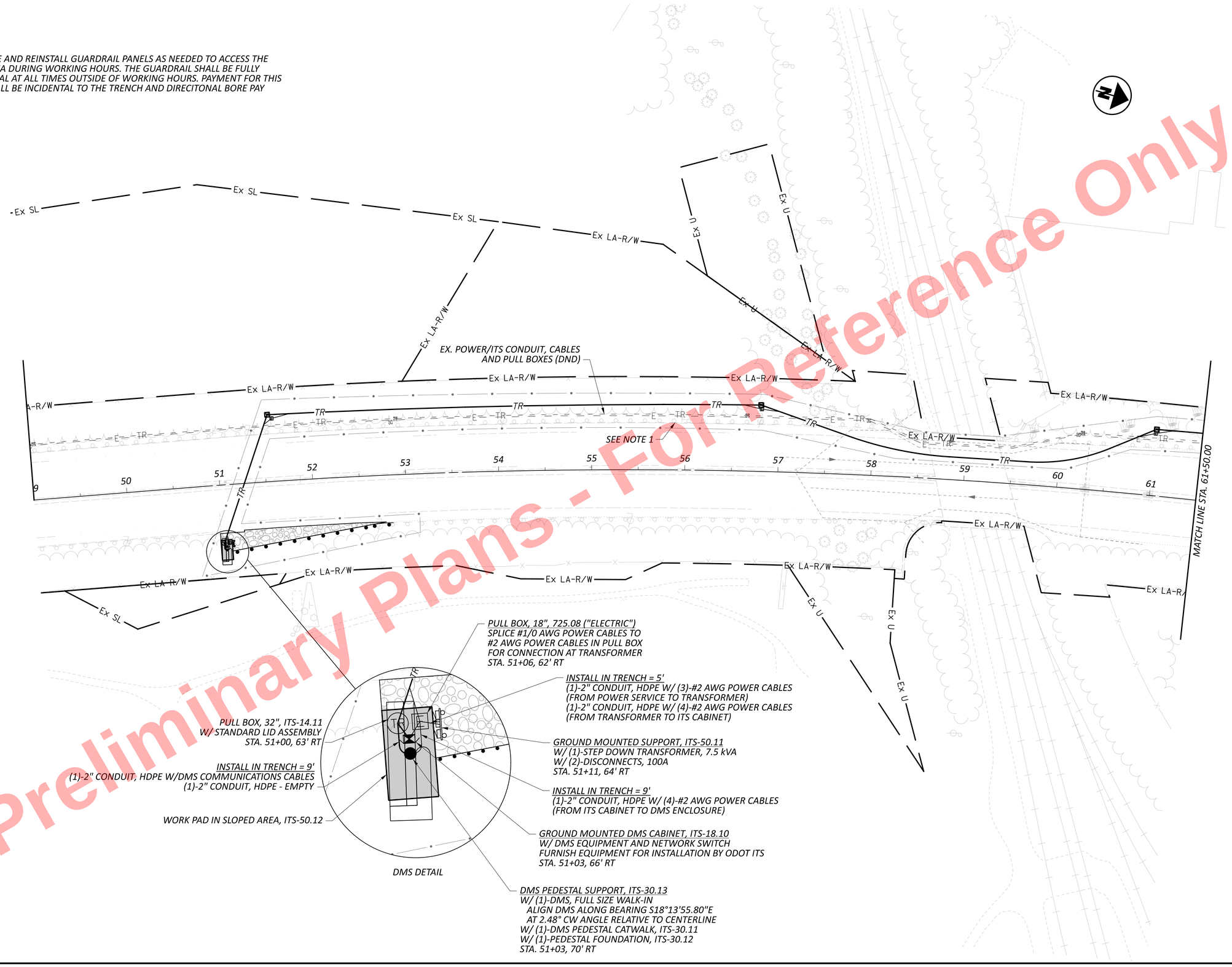
NOTE:

1: REMOVE AND REINSTALL GUARDRAIL PANELS AS NEEDED TO ACCESS THE WORK AREA DURING WORKING HOURS. THE GUARDRAIL SHALL BE FULLY FUNCTIONAL AT ALL TIMES OUTSIDE OF WORKING HOURS. PAYMENT FOR THIS WORK SHALL BE INCIDENTAL TO THE TRENCH AND DIRECITONAL BORE PAY ITEMS.



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

ITS PLAN
STA. 49+00 TO STA. 61+50

DESIGN AGENCY
HNTB

DESIGNER NSJ
REVIEWER NRS 10/31/25
PROJECT ID 105743
SHEET P.1096 TOTAL P.1269

CUY-77-11.41 - PART 1

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POWER SERVICE, ITS-15.11
240/480V, 100A, 1PH, 3W
W/ 100A DISCONNECT
ORIENT METER WEST
TOWARDS WILLOW PKWY.
FUSE L1 AND L2 AT 20A
STA. 63+69, 88' LT

INSTALL IN TRENCH = 10'
(1)-2" CONDUIT, HDPE, W/ (3)-#2 AWG POWER CABLES

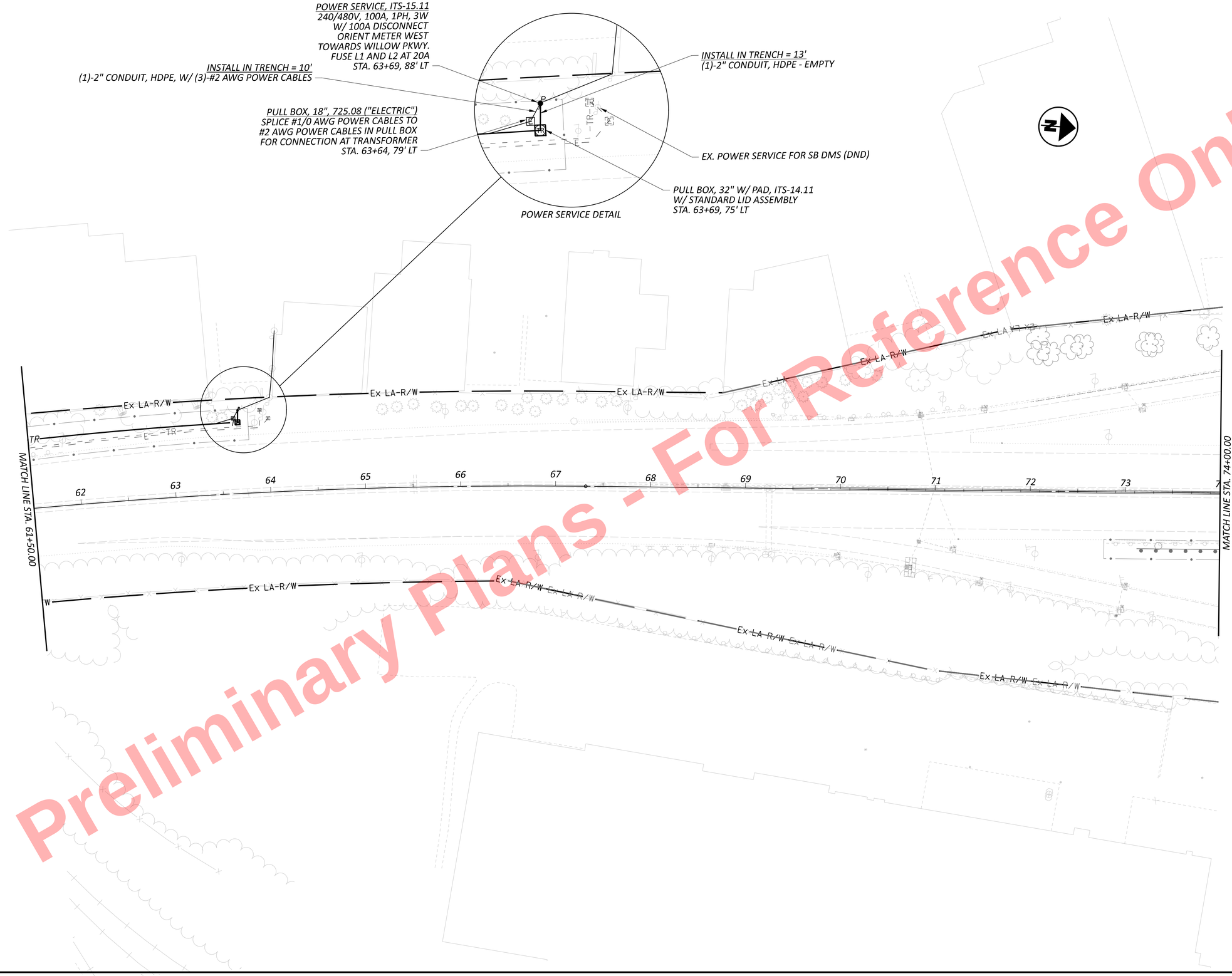
PULL BOX, 18", 725.08 ("ELECTRIC")
SPLICE #1/0 AWG POWER CABLES TO
#2 AWG POWER CABLES IN PULL BOX
FOR CONNECTION AT TRANSFORMER
STA. 63+64, 79' LT

INSTALL IN TRENCH = 13'
(1)-2" CONDUIT, HDPE - EMPTY

EX. POWER SERVICE FOR SB DMS (DND)

PULL BOX, 32" W/ PAD, ITS-14.11
W/ STANDARD LID ASSEMBLY
STA. 63+69, 75' LT

POWER SERVICE DETAIL



Preliminary Plans - For Reference Only

HORIZONTAL
SCALE IN FEET
0 25 50 100

ITS PLAN
STA. 61+50 TO STA. 74+00

CUY-77-11.41 - PART 1

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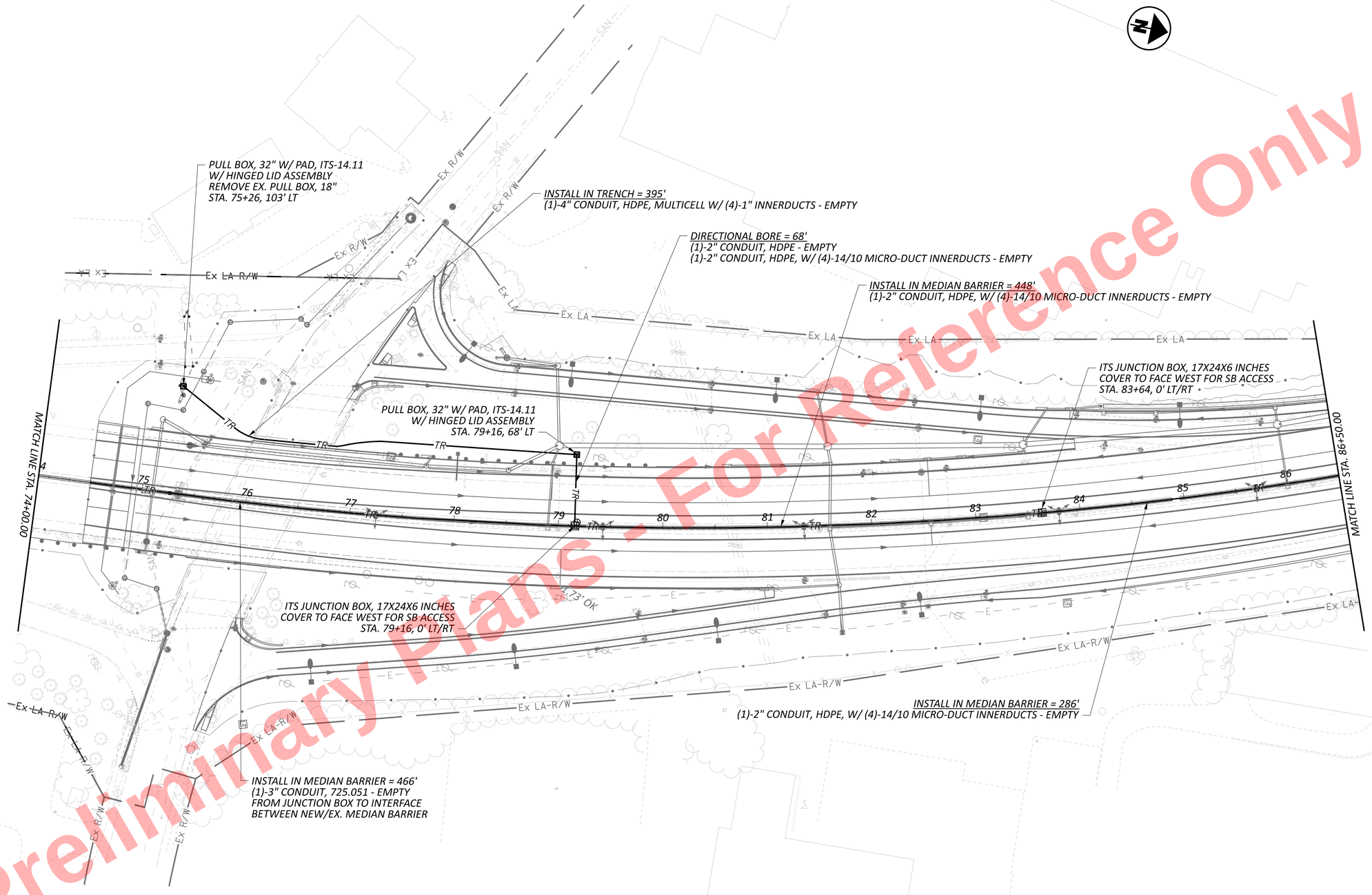
DESIGN AGENCY
HNTB

DESIGNER	NSJ
REVIEWER	NRS 10/31/25
PROJECT ID	105743
SHEET	P.1097
TOTAL	P.1269



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

ITS PLAN
STA. 74+00 TO STA. 86+50

DESIGN AGENCY
HNTB

DESIGNER	NSJ
REVIEWER	NRS 10/31/25
PROJECT ID	105743
SHEET	P.1098
TOTAL	P.1269

CUY-77-11.41 - PART 1

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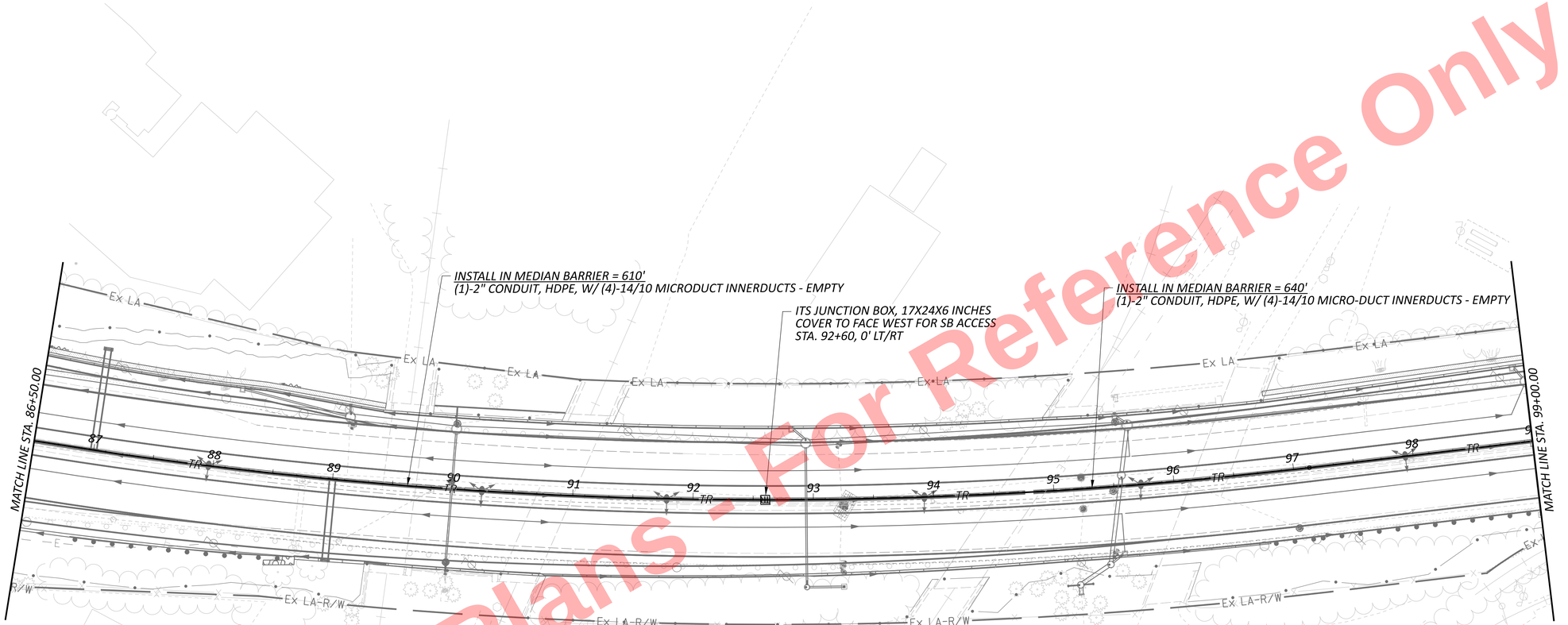
Preliminary Plans - For Reference Only



HORIZONTAL SCALE IN FEET
0 25 50 100

ITS PLAN
STA. 86+50 TO STA. 99+00

DESIGN AGENCY
HNTB

DESIGNER
NSJ

REVIEWER
NRS 10/31/25

PROJECT ID
105743

SHEET P.1099 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 2:13:29 AM USER: kperkins
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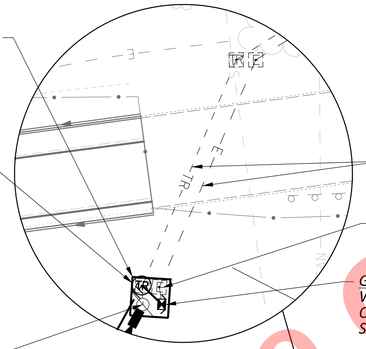
Preliminary Plans - For Reference only

INSTALL WORK PAD IN SLOPED AREA PER ITS-50.12
ENCOMPASSING NEW AND EX. PULL BOXES,
EX. CCTV POLE, AND NEW ITS CABINET

PULL BOX, 32", ITS-14.11
REMOVE EX. PULL BOX, 18"
STA. 110+68, 88' LT

EX. CONCRETE CCTV POLE TO REMAIN
CONSTRUCT NEW GROUND-MOUNTED
ITS CABINET AND COORDINATE WITH
ODOT CO ITS FOR RELOCATON OF EX.
NETWORK EQUIPMENT TO NEW CABINET
REMOVE EX. POLE-MOUNTED ITS
CABINET AND DISPOSE FOLLOWING
EQUIPMENT RELOCATION BY ODOT
INSTALL (1)-NEW CCTV ON NEW LOWERING UNIT
DELIVER EX. CCTV AND LOWERING UNIT TO ODOT
STA. 110+69, 83' LT



CCTV DETAIL

MAINTAIN EX. CONDUIT/CABLES

EX. PULL BOX, 18" (ATG)
STA. 110+73, 88' LT

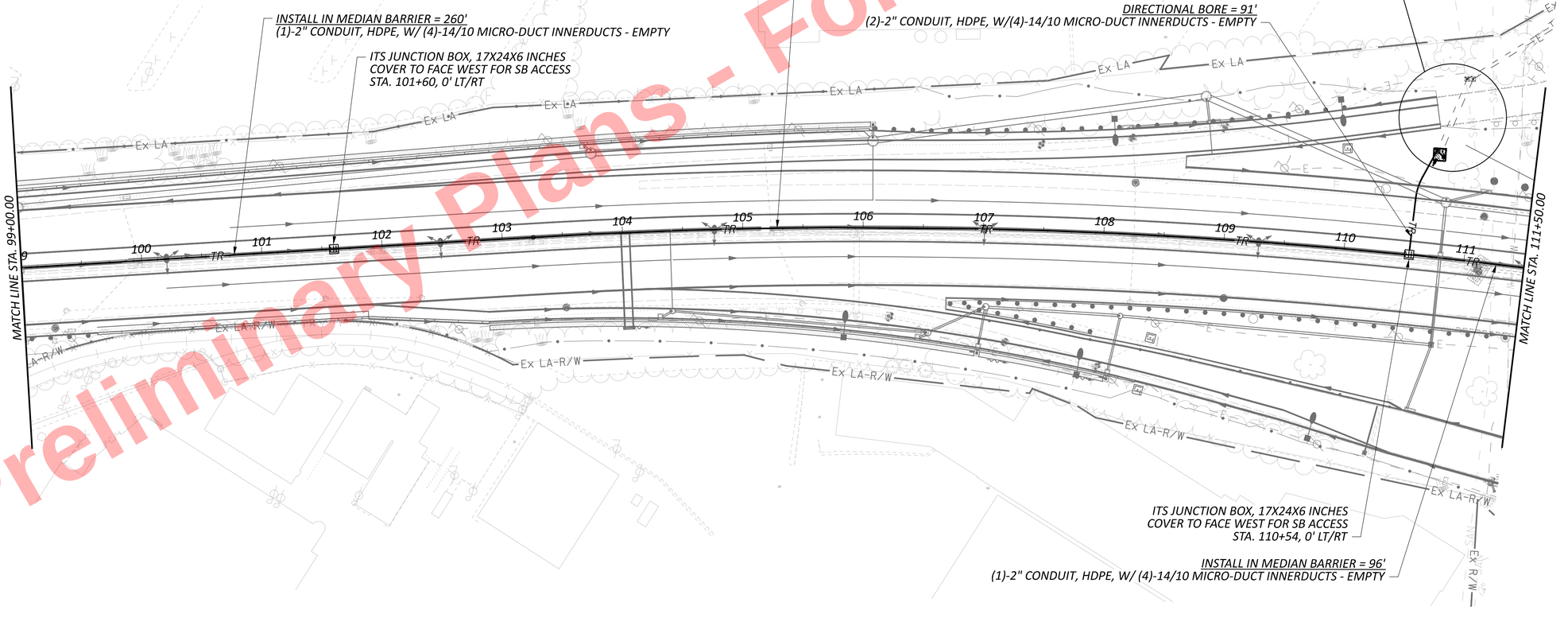
GROUND MOUNTED ITS CABINET, ITS-18.00
W/ CCTV EQUIPMENT INSTALLED BY CONTRACTOR
ODOT ITS TO REINSTALL EX. NETWORK EQUIPMENT
STA. 110+74, 84' LT

INSTALL IN MEDIAN BARRIER = 894'
(1)-2" CONDUIT, HDPE, W/ (4)-14/10 MICRO-DUCT INNERDUCTS - EMPTY

DIRECTIONAL BORE = 91'
(2)-2" CONDUIT, HDPE, W/(4)-14/10 MICRO-DUCT INNERDUCTS - EMPTY

INSTALL IN MEDIAN BARRIER = 260'
(1)-2" CONDUIT, HDPE, W/ (4)-14/10 MICRO-DUCT INNERDUCTS - EMPTY

ITS JUNCTION BOX, 17X24X6 INCHES
COVER TO FACE WEST FOR SB ACCESS
STA. 101+60, 0' LT/RT



ITS JUNCTION BOX, 17X24X6 INCHES
COVER TO FACE WEST FOR SB ACCESS
STA. 110+54, 0' LT/RT

INSTALL IN MEDIAN BARRIER = 96'
(1)-2" CONDUIT, HDPE, W/ (4)-14/10 MICRO-DUCT INNERDUCTS - EMPTY

HORIZONTAL
SCALE IN FEET
0 25 50 100

ITS PLAN
STA. 99+00 TO STA. 111+50

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 2:13:31 AM USER: kperkins
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DESIGN AGENCY
HNTB

DESIGNER
NSJ

REVIEWER
NRS 10/31/25

PROJECT ID
105743

SHEET P.1100 | TOTAL P.1269

MAINTAIN EX. POWER SERVICE
120/140V, 100A, 1PH, 3W
STA. 111+03, 240' LT

INSTALL IN MEDIAN BARRIER = 764'
(1)-2" CONDUIT, HDPE, W/ (4)-14/10 MICRO-DUCT INNERDUCTS - EMPTY

ITS JUNCTION BOX, 17X24X6 INCHES
COVER TO FACE WEST FOR SB ACCESS
STA. 119+15, 0' LT/RT

INSTALL IN MEDIAN BARRIER = 486'
(1)-2" CONDUIT, HDPE, W/ (4)-14/10 MICRO-DUCT INNERDUCTS - EMPTY

MATCH LINE STA. 111+50.00

MATCH LINE STA. 124+00.00

Ex LA

Ex R/W

Ex LA-R/W

112 113 114 115 116 117 118 119 120 121 122 123

TR

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

ITS PLAN
STA. 111+50 TO STA. 124+00

DESIGN AGENCY
HNTB

DESIGNER
NSJ

REVIEWER
NRS 10/31/25

PROJECT ID
105743

SHEET P.1101 TOTAL P.1269

CUY-77-11.41 - PART 1

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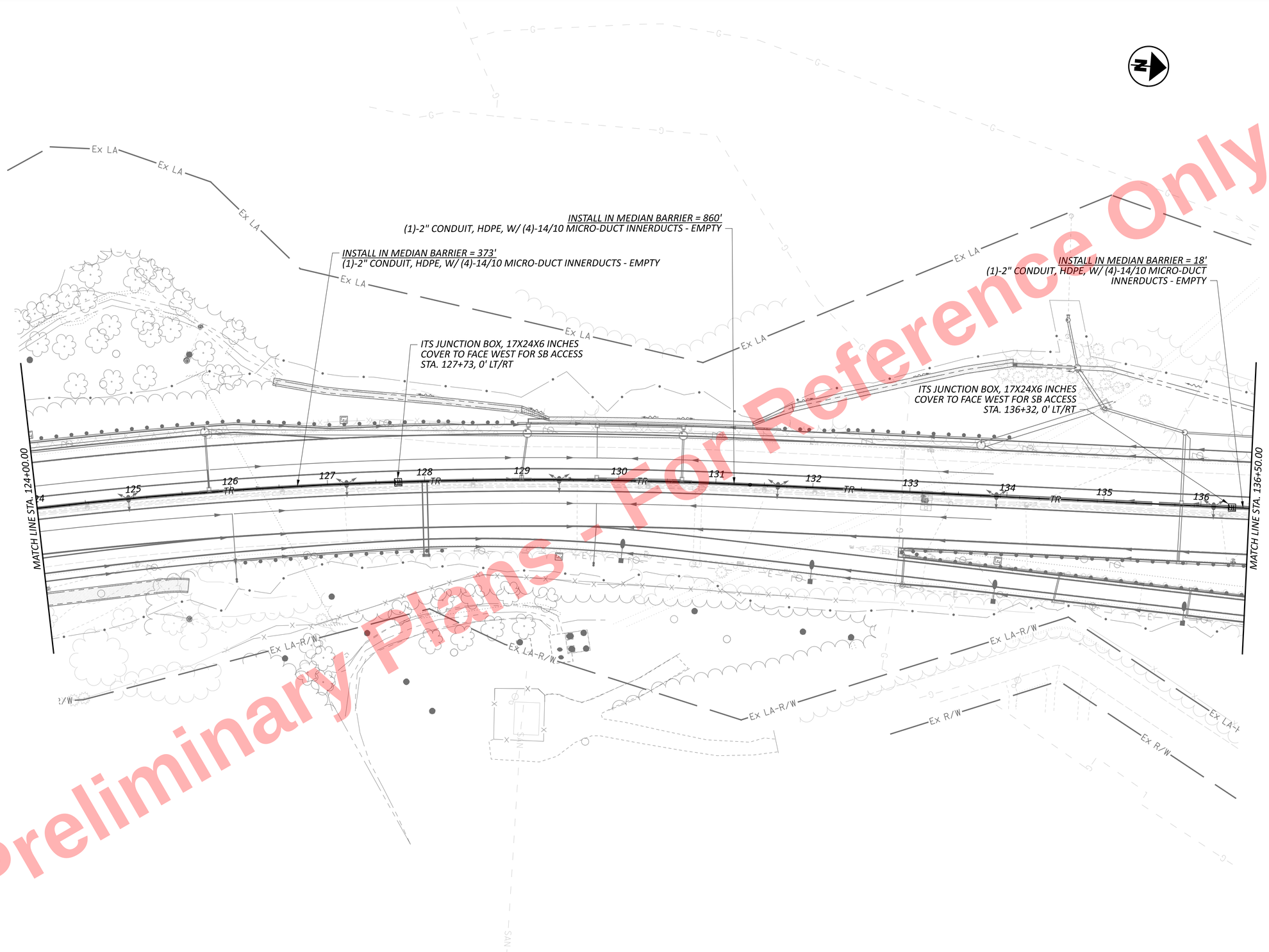

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

ITS PLAN
STA. 124+00 TO STA. 136+50

DESIGN AGENCY
HNTB

DESIGNER NSJ
REVIEWER NRS 10/31/25
PROJECT ID 105743
SHEET P.1102 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 2:13:35 AM USER: kperkins
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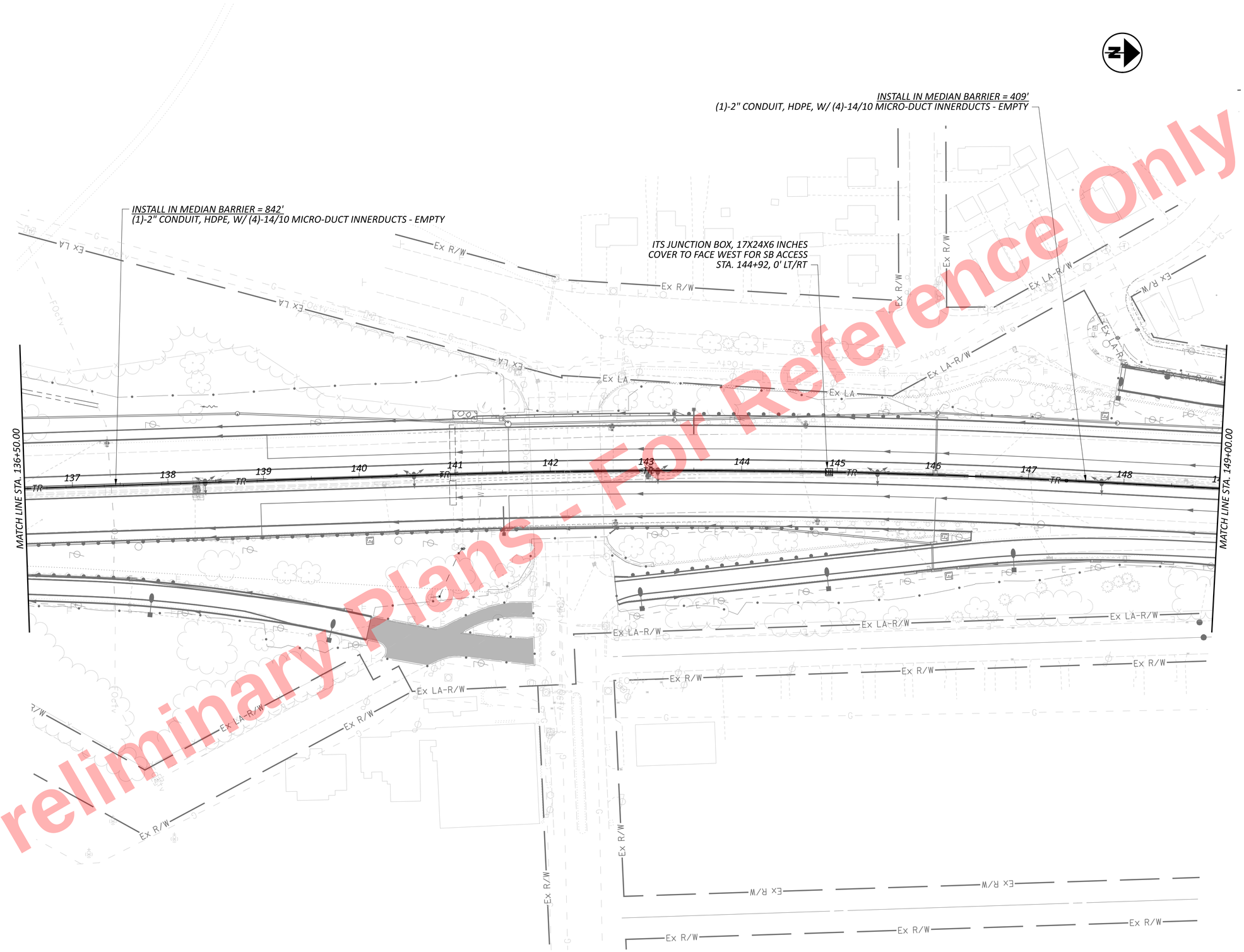

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

ITS PLAN
STA. 136+50 TO STA. 149+00

DESIGN AGENCY
HNTB

DESIGNER
NSJ

REVIEWER
NRS 10/31/25

PROJECT ID
105743

SHEET P.1103 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 2:13:37 AM USER: kperkins
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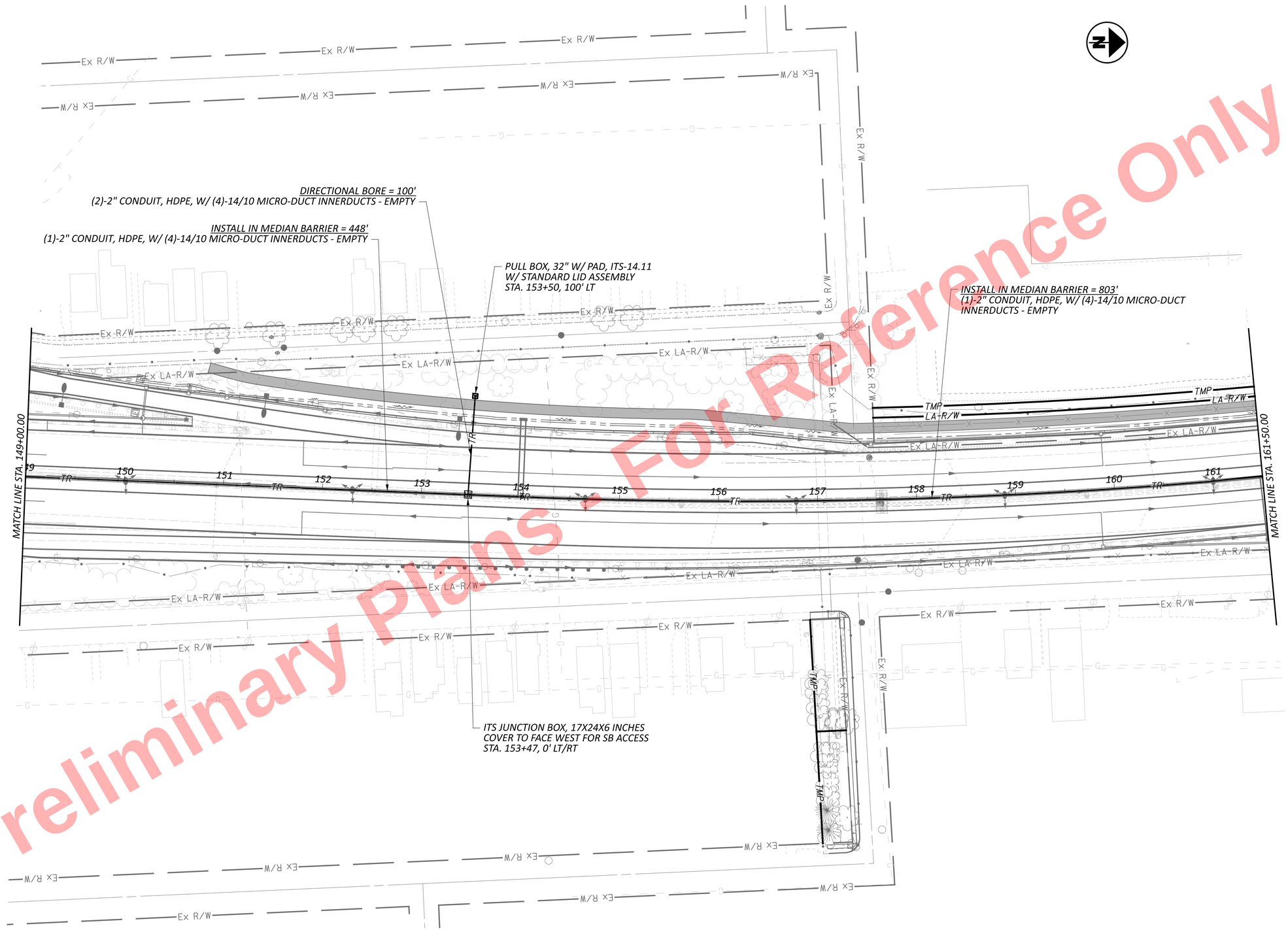

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

ITS PLAN
STA. 149+00 TO STA. 161+50

DESIGN AGENCY
HNTB

DESIGNER NSJ
REVIEWER NRS 10/31/25
PROJECT ID 105743
SHEET P.1104 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 2:13:38 AM USER: kperkins
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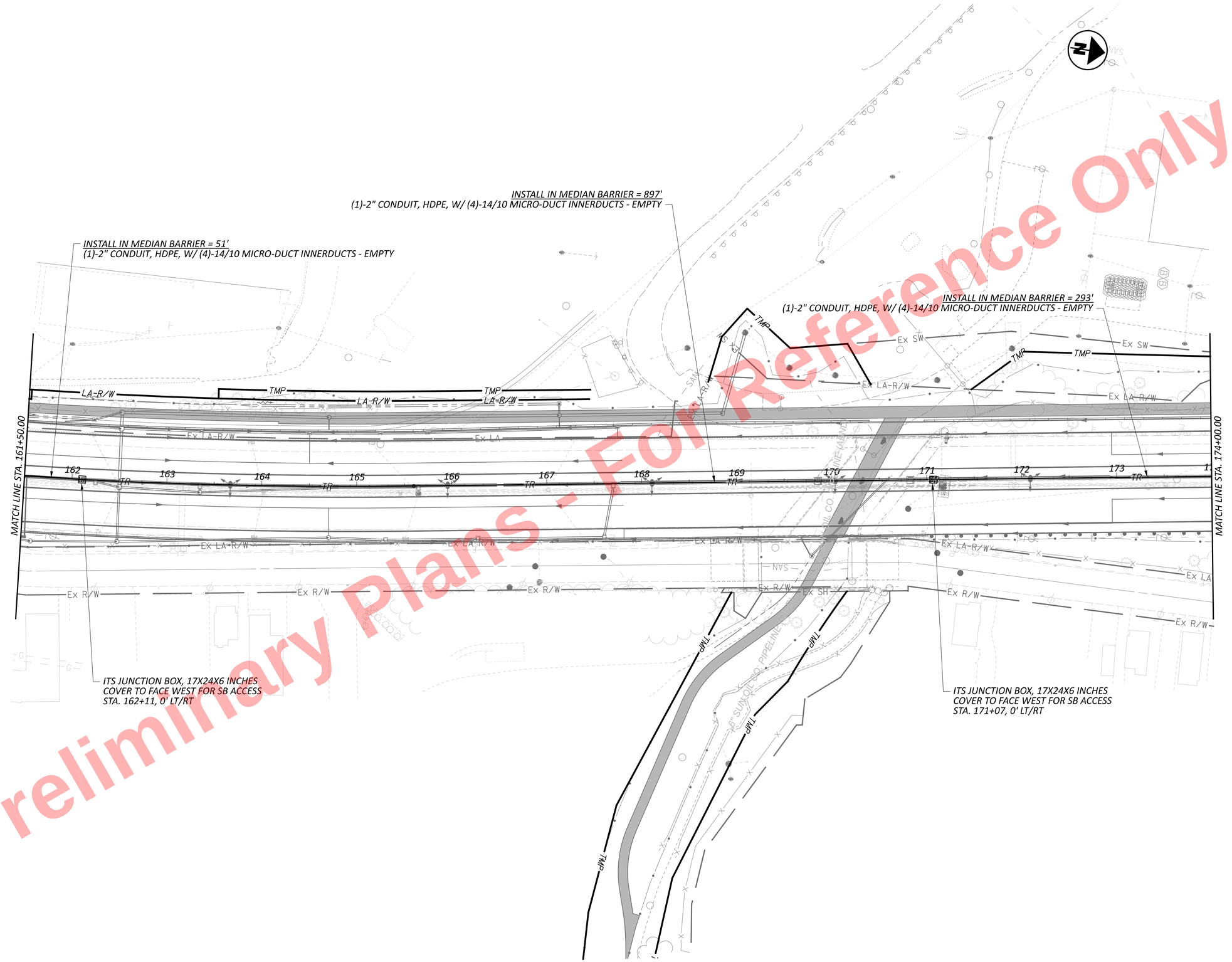

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

ITS PLAN
STA. 161+50 TO STA. 174+00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 2:13:41 AM USER: kperkins
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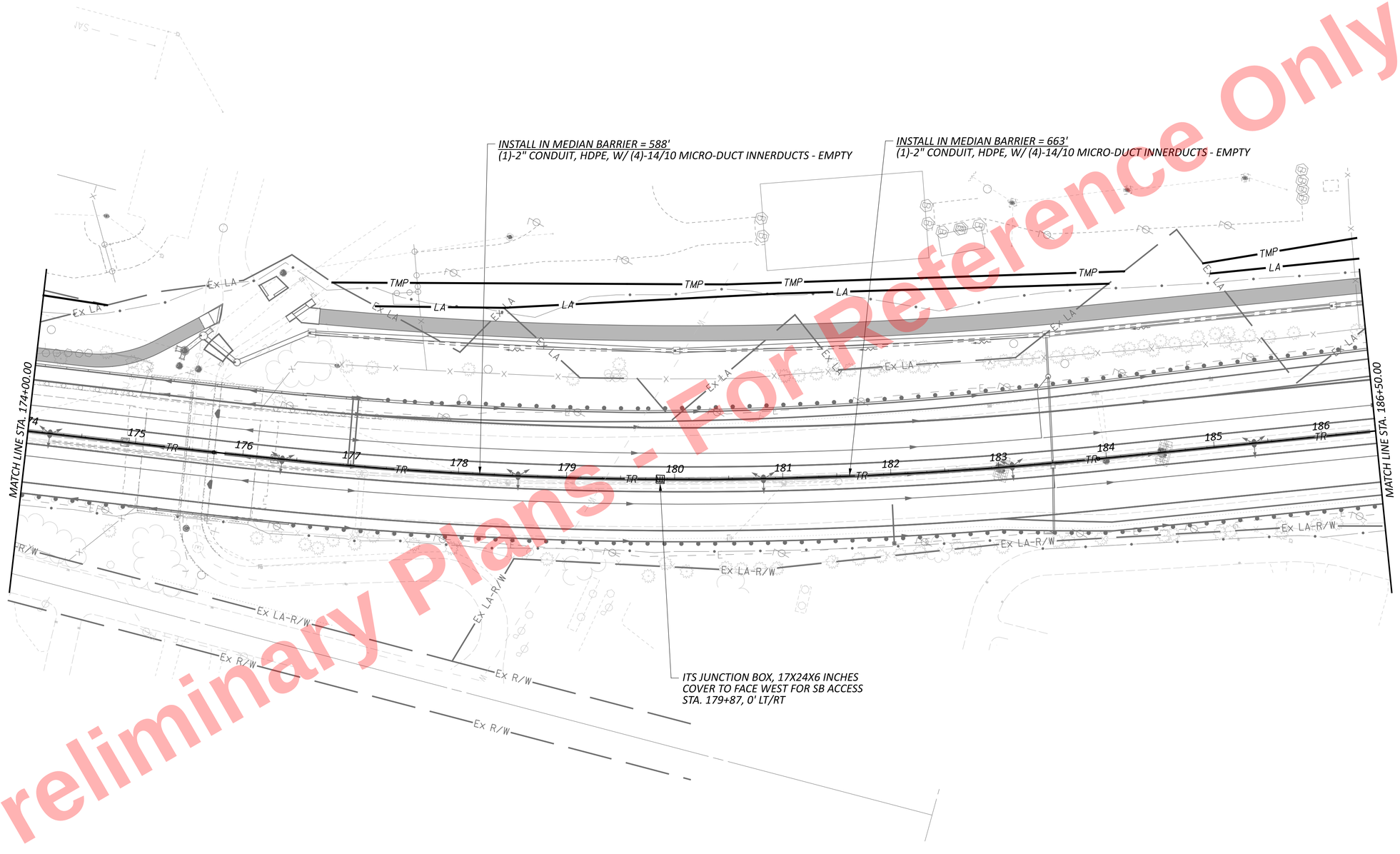
DESIGN AGENCY
HNTB

DESIGNER NSJ
REVIEWER NRS 10/31/25
PROJECT ID 105743
SHEET P.1105 TOTAL P.1269



Preliminary Plans - Not For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

ITS PLAN
STA. 174+00 TO STA. 186+50

DESIGN AGENCY
HNTB

DESIGNER
NSJ

REVIEWER
NRS 10/31/25

PROJECT ID
105743

SHEET P.1106 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 12 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 2:13:45 AM USER: kperkins
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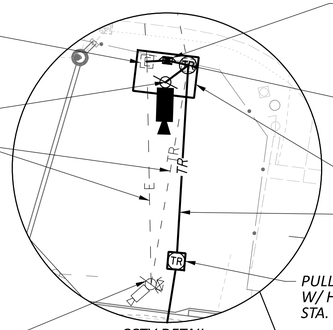
Preliminary Plans - For Reference Only

EX. PULL BOX, 18" (ATG)
STA. 197+29, 130' LT

CCTV POLE, 70' TALL (25' EMBEDMENT FOR CONCRETE POLE)
INSTALL (1)-NEW CCTV ON NEW LOWERING UNIT
STA. 197+35, 125' LT

REMOVE EX. CONDUIT/CABLES = 131'

EX. CONCRETE CCTV POLE TO BE REMOVED
REMOVE EX. ATR DEVICE AND DISPOSE
CONSTRUCT NEW GROUND-MOUNTED
ITS CABINET AND COORDINATE WITH
ODOT CO ITS FOR RELOCATION OF EX.
NETWORK EQUIPMENT TO NEW CABINET
REMOVE EX. POLE-MOUNTED ITS
CABINET AND DISPOSE FOLLOWING
EQUIPMENT RELOCATION BY ODOT
REMOVE EX. CCTV AND LOWERING
DEVICE AND DELIVER TO ODOT
STA. 197+38, 65' LT



CCTV DETAIL

GROUND MOUNTED ITS CABINET, ITS-18.00
W/ CCTV EQUIPMENT INSTALLED BY CONTRACTOR
ODOT ITS TO REINSTALL EX. NETWORK EQUIPMENT
STA. 197+35, 131' LT

PULL BOX, 32", ITS-14.11
W/ STANDARD LID ASSEMBLY
REMOVE EX. PULL BOX, 18"
STA. 197+41, 130' LT

WORK PAD, ITS-10.11

INSTALL IN TRENCH = 58'
(1)-4" CONDUIT, HDPE, MULTICELL W/ (4)-1" INNERDUCTS - EMPTY

PULL BOX, 32" W/ PAD, ITS-14.11
W/ HINGED LID ASSEMBLY
STA. 197+45, 73' LT

INSTALL IN MEDIAN BARRIER = 217'
(1)-2" CONDUIT, HDPE, W/ (4)-14/10 MICRO-DUCT INNERDUCTS - EMPTY

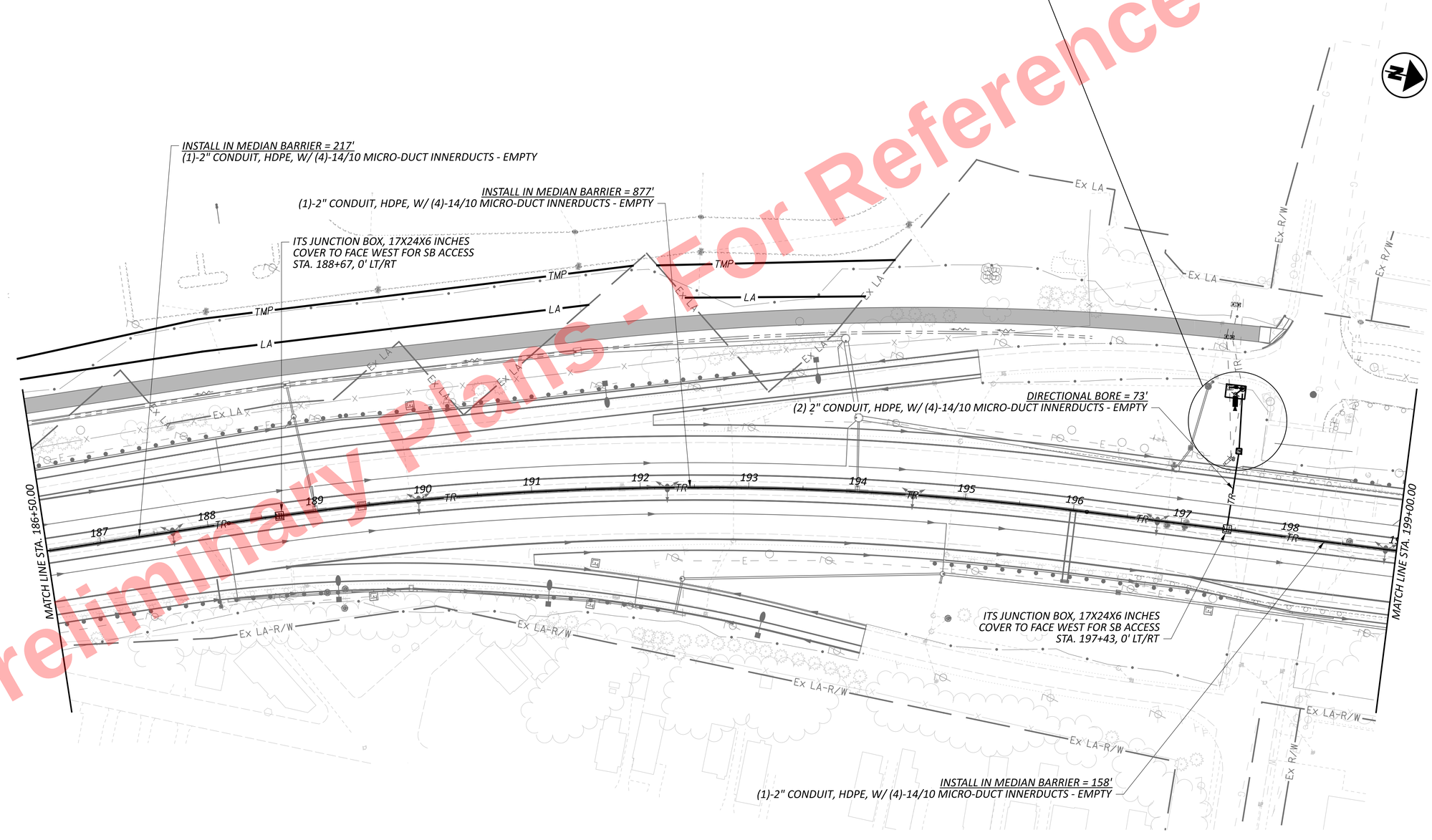
INSTALL IN MEDIAN BARRIER = 877'
(1)-2" CONDUIT, HDPE, W/ (4)-14/10 MICRO-DUCT INNERDUCTS - EMPTY

ITS JUNCTION BOX, 17X24X6 INCHES
COVER TO FACE WEST FOR SB ACCESS
STA. 188+67, 0' LT/RT

DIRECTIONAL BORE = 73'
(2) 2" CONDUIT, HDPE, W/ (4)-14/10 MICRO-DUCT INNERDUCTS - EMPTY

ITS JUNCTION BOX, 17X24X6 INCHES
COVER TO FACE WEST FOR SB ACCESS
STA. 197+43, 0' LT/RT

INSTALL IN MEDIAN BARRIER = 158'
(1)-2" CONDUIT, HDPE, W/ (4)-14/10 MICRO-DUCT INNERDUCTS - EMPTY



HORIZONTAL
SCALE IN FEET
0 25 50 100

ITS PLAN
STA. 186+50 TO STA. 199+00

DESIGN AGENCY
HNTB

DESIGNER	NSJ
REVIEWER	NRS 10/31/25
PROJECT ID	105743
SHEET	P.1107
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 13 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 2:13:47 AM USER: kperkins
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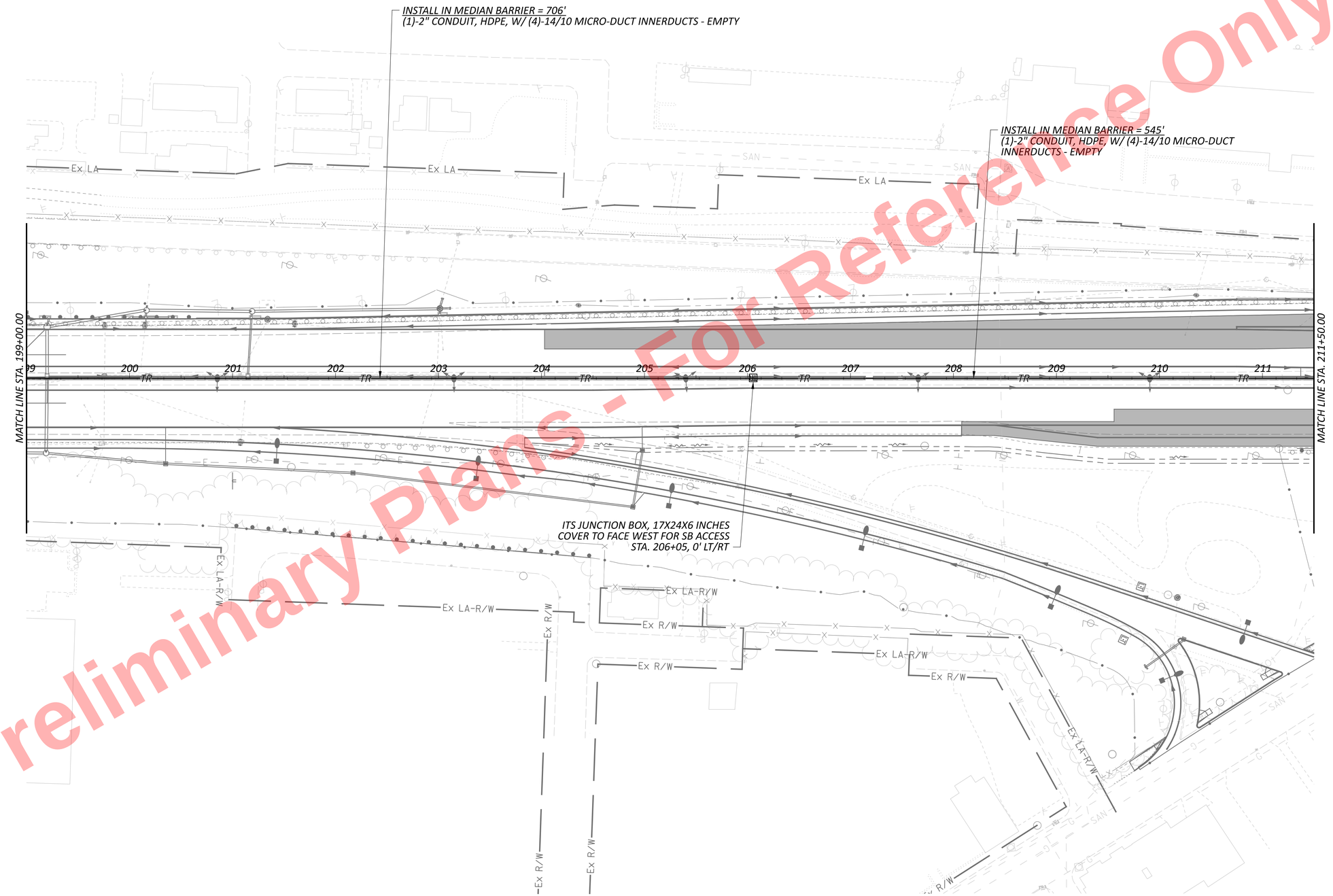
Preliminary Plans - For Reference Only



HORIZONTAL SCALE IN FEET
0 25 50 100

ITS PLAN
STA. 199+00 TO STA. 211+50

DESIGN AGENCY
HNTB

DESIGNER	NSJ
REVIEWER	NRS 10/31/25
PROJECT ID	105743
SHEET	P.1108
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 14 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 2:13:48 AM USER: kperkins
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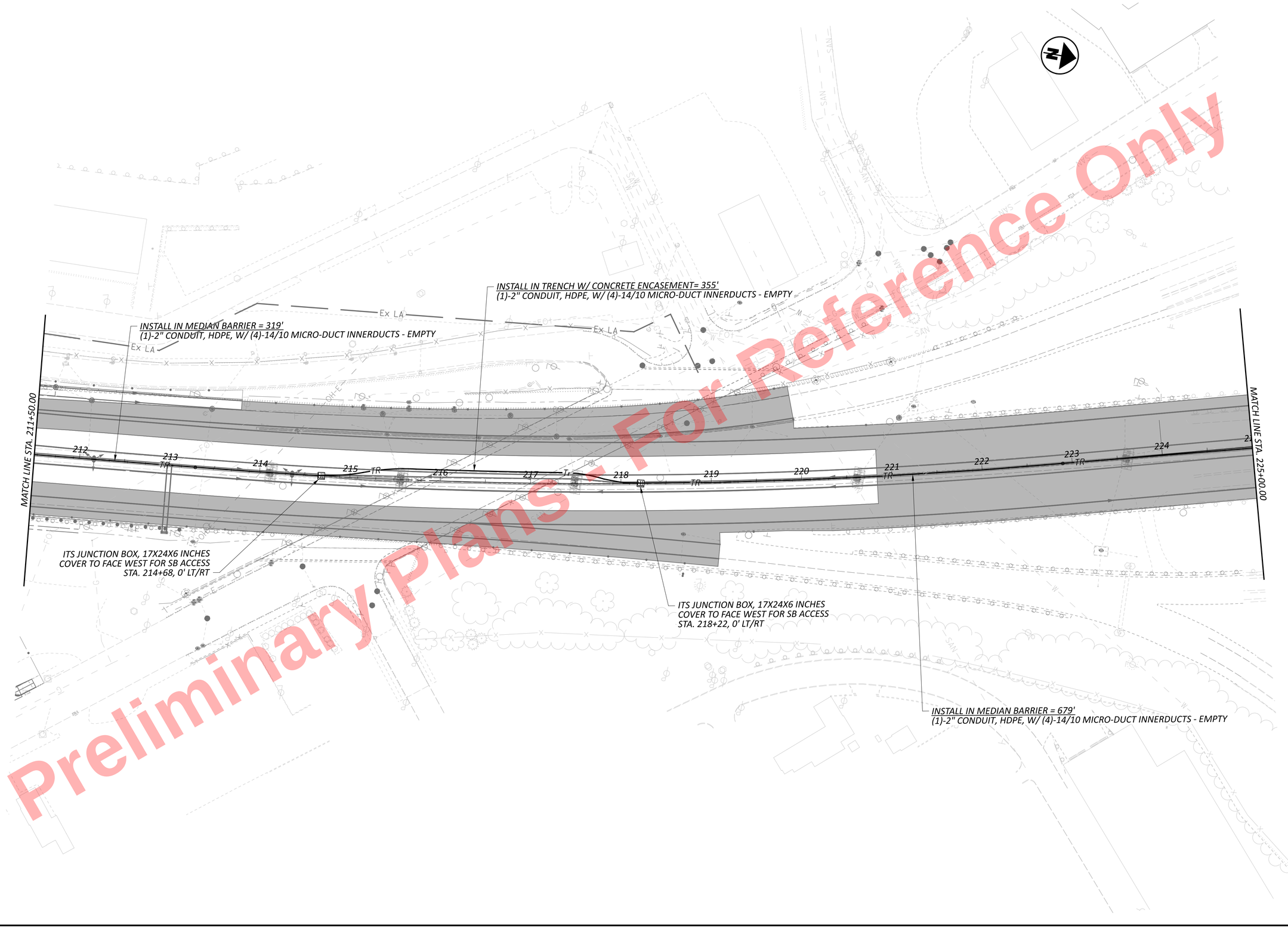

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

ITS PLAN
STA. 211+50 TO STA. 225+00

DESIGN AGENCY
HNTB

DESIGNER NSJ
REVIEWER NRS 10/31/25
PROJECT ID 105743
SHEET P.1109 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 15 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 2:13:49 AM USER: kperkins
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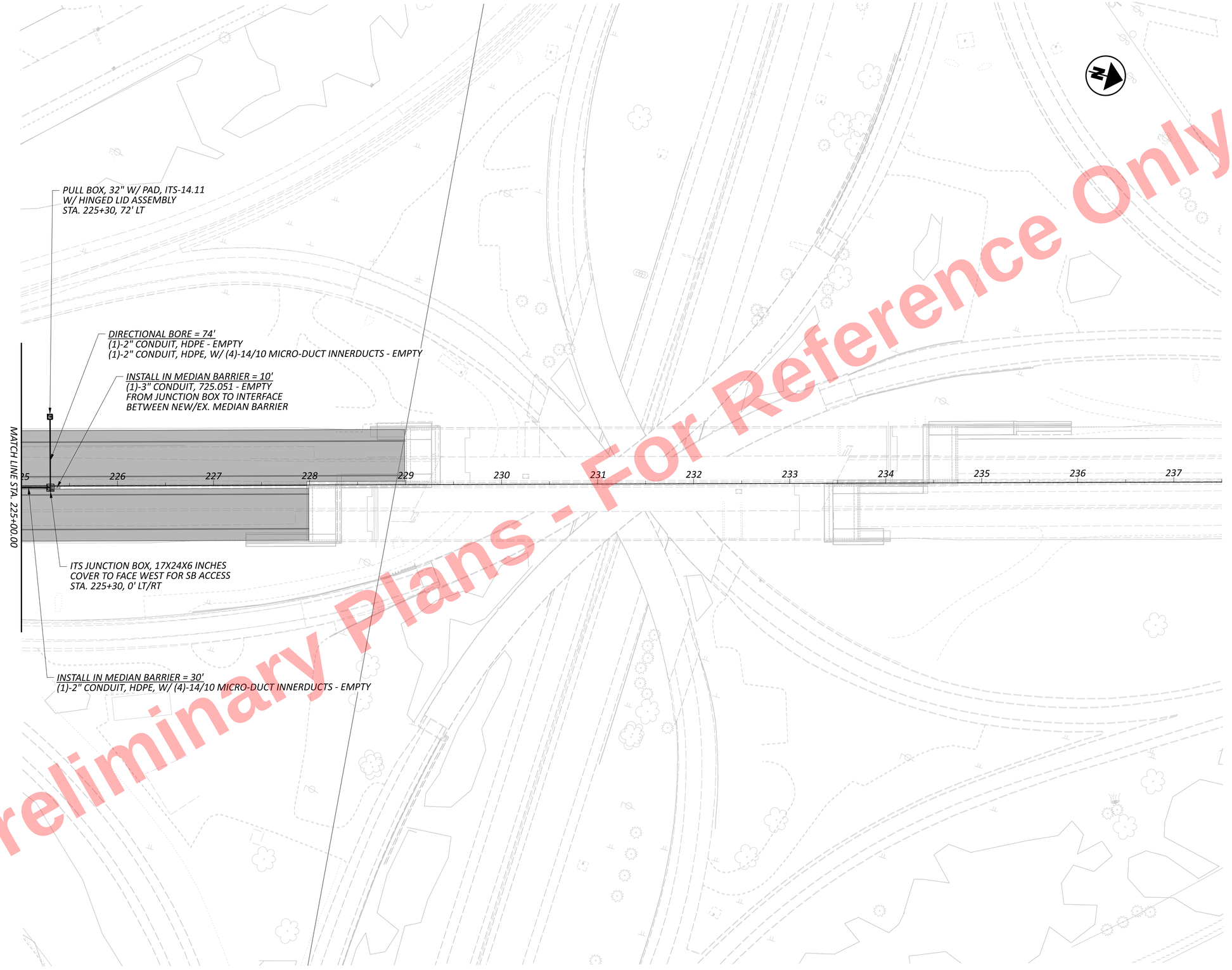
Preliminary Plans - For Reference Only



HORIZONTAL SCALE IN FEET
0 25 50 100

ITS PLAN
STA. 225+00 TO END WORK

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER
NSJ

REVIEWER
NRS 10/31/25

PROJECT ID
105743

SHEET P.1110 TOTAL P.1269

MODEL: CLP_I077 - Plan 16 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 2:13:51 AM USER: kperkins
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LIGHTING

LIGHTING GENERAL NOTES ARE SUPPLEMENTAL TO ITEMS 625 AND 725 OF THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) CONSTRUCTION AND MATERIAL SPECIFICATIONS, (CMS) DATED JANUARY 1, 2023, WHICH SHALL GOVERN ALL WORK OF THIS PROJECT, EXCEPT AS HEREINAFTER MODIFIED.

625, POWER SERVICE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF THE SPECIFICATIONS, THE FOLLOWING IS ADDED.

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

CLEVELAND PUBLIC POWER
1300 LAKESIDE AVE., ROOM 152
CLEVELAND, OHIO 44114
ATTN: CHRIS HIRZEL
PHONE: 216-563-7212
EMAIL: CHIRZEL@CPP.ORG

POWER SERVICE FOR OHIO FACILITY LIGHTING: 240/480 VOLT 3-WIRE, SINGLE PHASE.
POWER SERVICE FOR CITY OF CLEVELAND UNDERPASS FACILITY LIGHTING: 120/240 VOLT 3-WIRE, SINGLE PHASE.

ALL POWER SERVICES SHALL BE METERED. THE METER BASE MOUNTING HEIGHT SHALL BE NO MORE THAN FIVE (5) FEET HIGH TO THE CENTER OF THE METER BASE FROM THE GROUND. A NON-FUSED DISCONNECT SHALL BE INSTALLED ON THE POWER SIDE OF THE METER BASE. THE CONTRACTOR SHALL SUPPLY THE NECESSARY METER BASES AND DISCONNECTS.

THE PROPOSED PHOTOCELL SHOULD BE PLACED 1'-2' ABOVE THE LIGHTING CONTROL CENTER (LCC) ENCLOSURE.

THE CONCRETE WORK PAD IS INCLUDED IN THIS PAY ITEM.

THE ENGINEER SHALL ENSURE THAT EACH POWER SERVICE ELECTRICAL ENERGY ACCOUNT IS IN THE NAME OF AND THAT THE BILLING ADDRESS IS TO THE MAINTAINING AGENCY NOTED IN THE PLANS. THIS SHALL BE DONE NOT ONLY FOR EACH NEW POWER SERVICE ESTABLISHED BY THIS PROJECT BUT ALSO FOR EACH EXISTING POWER SERVICE, SINCE THERE MAY BE A REASSIGNMENT OF THE RESPONSIBILITY FOR AN EXISTING SERVICE AS A RESULT OF THE WORK PERFORMED BY THIS PROJECT.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH CMS ITEM 625, "POWER SERVICE, AS PER PLAN" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THE ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

PADLOCKS AND KEYS

PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNAN 660A, AND SHALL BE KEYED IN ACCORDANCE WITH C&MS 631.06. PAYMENT SHALL BE INCLUDED IN THE BID FOR THE ITEM(S) BEING LOCKED.

CONDUIT EXPANSION AND DEFLECTION

EXPANSION FITTINGS SHALL BE OZ TYPE AX, CROUSE HINDS TYPE XJG, OR EQUAL APPROVED BY THE ENGINEER. EACH EXPANSION FITTING SHALL PROVIDE EITHER 4 OR 8 INCHES TOTAL MOVEMENT AS SPECIFIED BY THE PLAN DETAILS AND SHALL HAVE AN EXTERNAL COPPER BONDING JUMPER, UNLESS SPECIFIED OTHERWISE BY THE PLAN DETAILS.

DEFLECTION COUPLINGS SHALL BE OZ TYPE DX, CROUSE HINDS TYPE XD, OR EQUAL APPROVED BY THE ENGINEER. EACH DEFLECTION COUPLING SHALL HAVE AN EXTERNAL COPPER BONDING JUMPER, UNLESS SPECIFIED OTHERWISE BY THE PLAN DETAILS. MINIMUM DEFLECTION CAPABILITY: 25°.

EXPANSION AND DEFLECTION FITTINGS FULLY OR PARTIALLY EMBEDDED IN CONCRETE, SOIL, OR SIMILAR MATERIAL SHALL BE COMPLETELY WRAPPED IN A NEOPRENE SLEEVE OR SHEET OF 1/2-INCH MINIMUM THICKNESS.

SECURE NEOPRENE WRAP WITH TIE-WRAPS PRIOR TO EMBEDMENT OF THE FITTING.

OUPS NOTE

WHEN THE PROJECT BEGINS AND THE CONTRACTOR HAS TAKEN OVER THE MAINTENANCE OF THE EXISTING SYSTEM, THEY SHALL PROVIDE ALL REQUIRED LAYOUTS AND LOCATIONS OF THE EXISTING AND PROPOSED ELECTRICAL CIRCUITS WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL LOCATE AND MARK THE UNDERGROUND ELECTRICAL CIRCUITS DURING THE DURATION OF THE PROJECT.

625, LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (IES-II, LED, 480V, 13,400-15,000 LUMENS)

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LUMINAIRES FOR CONVENTIONAL LIGHTING UNITS SHALL BE AS FOLLOWS:

LUMINAIRES FOR CONVENTIONAL LIGHTING UNITS WITH AN IES TYPE II DISTRIBUTION SHALL BE

COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON) WITH PHOTOMETRIC DISTRIBUTION VERD-CA2-100-730-U-T2, TWO LAMPS, 13,612 LUMENS OUTPUT.

AMERICAN ELECTRIC LIGHTING WITH PHOTOMETRIC DISTRIBUTION ATBM P30 XXXXX R2 3K, 14,637 LUMENS OUTPUT.

GE LIGHTING SOLUTIONS WITH PHOTOMETRIC DISTRIBUTION ERL1_14B530, 13,400 LUMENS OUTPUT.

OR EQUAL AS APPROVED BY THE ENGINEER.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH CMS ITEM 625, "LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (IES-II, LED, 480V, 13,400-15,000 LUMENS)" FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

625, LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN (IES-V, LED, 480V, 43,600-51,000 LUMENS)

THE LUMINAIRES SHALL BE AS SPECIFIED FOR LOW-MAST LUMINAIRES IN CMS 725.11 EXCEPT THAT THE LUMINAIRE ARRAYS AND ASSOCIATED ILLUMINATION TEST AREAS ARE HEREBY WAIVED. IN ADDITION, THE LUMINAIRES FOR LOW-MAST LIGHTING SHALL MEET THE FOLLOWING REQUIREMENTS:

LUMINAIRES FOR LOW-MAST LIGHTING UNITS WITH SYMMETRIC DISTRIBUTION SHALL BE

COOPER "CELESTEON" WITH PHOTOMETRIC DISTRIBUTION CST-CA10-310-730-U-T5R, TEN LAMPS, 50,920 LUMENS OUTPUT.

HOLOPHANE "HMLED4" WITH PHOTOMETRIC DISTRIBUTION HMLED4 P2 30K XXXXX AW, 43,659 LUMENS OUTPUT.

GE LIGHTING SOLUTIONS EVOLVE WITH PHOTOMETRIC DISTRIBUTION ERHM03_50VW730, 50,301 LUMENS OUTPUT.

OR EQUAL AS APPROVED BY THE ENGINEER.

IN ADDITION, OTHER LUMINAIRES WILL BE CONSIDERED IF THE DESIGNED INTENSITY AND UNIFORMITY ARE PROVIDED USING THE DESIGNED POLE LOCATIONS AND THE DESIGNED NUMBER AND TYPE OF FIXTURES PER POLE.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH CMS ITEM 625, "LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN (IES-V, LED, 480V, 43,600-51,000 LUMENS)" FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

625, LIGHT POLE ANCHOR BOLTS, MISC.: MEDIAN MOUNTED ALM41.25

WHEN A LIGHT POLE IS MOUNTED ON THE MEDIAN, THE REQUIRED ANCHOR BOLTS MAY DIFFER IN LENGTH AND/OR SHAPE FROM THOSE REQUIRED WHEN THE POLE IS MOUNTED ON A CAST-IN-PLACE DRILLED SHAFT FOUNDATION. THE COST DIFFERENTIAL FOR FURNISHING SUCH BOLTS IS INCLUDED HEREIN.

PAYMENT WILL BE MADE AT EACH SUCH POLE LOCATION AT THE UNIT PRICE BID FOR EACH CMS ITEM 625, "LIGHT POLE ANCHOR BOLTS, MISC.: MEDIAN MOUNTED ALM50" AND SHALL BE FULL COMPENSATION FOR FURNISHING AND PLACING THE SET OF ANCHOR BOLTS REQUIRED.

625, LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN (LED, 120V, 4,000-6,900 LUMENS)

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LUMINAIRES FOR UNDERPASS LIGHTING UNITS SHALL BE AS FOLLOWS:

MORGANA RUN TRAIL

AT MORGANA RUN TRAIL, LUMINAIRES SHALL BE CEILING MOUNT.

LUMINAIRES FOR MORGANA RUN TRAIL UNDERPASS LIGHTING UNITS SHALL BE

HOLOPHANE - TUNNELPASS LED WITH PHOTOMETRIC DISTRIBUTION TNLEDMED PK1 30K XXXXX CLN, 6,336 LUMENS OUTPUT.

GE - EVOLVE WITH PHOTOMETRIC DISTRIBUTION ECLP01_B5SM730_____-120-277V, 6,900 LUMENS OUTPUT.

COOPER LIGHTING SOLUTIONS - GALLEON GWC WITH PHOTOMETRIC DISTRIBUTION GWC-AF-01-LED-E1-5MQ-7030, 16 LAMPS, 6,464 LUMENS OUTPUT.

OR EQUAL AS APPROVED BY THE ENGINEER.

RUFFINI CT

AT RUFFINI CT, LUMINAIRES SHALL BE SIDE MOUNT.

LUMINAIRES FOR RUFFINI CT UNDERPASS LIGHTING UNITS SHALL BE

HOLOPHANE - WALLPACK LED WITH PHOTOMETRIC DISTRIBUTION WCNG P2 30K T3M, 4,027 LUMENS OUTPUT.

GE - EWAS WITH PHOTOMETRIC DISTRIBUTION EWAS01_B4AF730_____ ___-120-277V, 4,900 LUMENS OUTPUT.

COOPER LIGHTING SOLUTIONS - GALLEON GWC WITH PHOTOMETRIC DISTRIBUTION GWC-AF-01-LED-E1-T3-7030-600, 16 LAMPS, 4,048 LUMENS OUTPUT.

OR EQUAL AS APPROVED BY THE ENGINEER.

LUMINAIRES FOR UNDERPASS LIGHTING UNIT SHALL BE FURNISHED WITH AN INTEGRAL FUSE HOLDER AND 10-AMPERE FUSES.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 625, "LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN (LED, 120V, 4,000-6,900 LUMENS)" FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

625, SERVICE TO UNDERPASS LIGHTING, AS PER PLAN

SERVICE TO UNDERPASS LIGHTING SHALL PROVIDE A COMPLETE ELECTRICAL SYSTEM FOR THE UNDERPASS LIGHTING SYSTEM, EXCEPT FOR PULL BOXES, LUMINAIRES AND POWER SERVICE. INCLUDED IN THIS INSTALLATION ARE ALL CONDUIT, STRUCTURE GROUNDING SYSTEM, MOUNTINGS, FITTINGS, SPLICE KITS, JUNCTION BOXES, CONDUCTORS, DISCONNECT SWITCHES, GROUND RODS, CABLES, VANDAL PROTECTION AND ALL INCIDENTALS NECESSARY TO COMPLETE THE INSTALLATION.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 625,"SERVICE, UNDERPASS LIGHTING, AS PER PLAN" FOR EACH UNDERPASS SERVICE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

625, LIGHTING MISC.: ARC FLASH CALCULATIONS AND LABEL

THE CONTRACTOR SHALL SATISFY THE REQUIREMENTS OF ODOT SUPPLEMENTAL SPECIFICATION 825 FOR THE CONTROL CENTERS.

METHOD OF MEASUREMENT SHALL BE PER 825.06. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE LIGHTING SUBSUMMARY.

PS-GRA: LIGHTING MISC.: ARC FLASH CALCULATIONS AND LABEL (CUY-70/GRANT AVE)

PS-HAR: LIGHTING MISC.: ARC FLASH CALCULATIONS AND LABEL (CUY-70/HARVARD AVE)

PS-PER: LIGHTING MISC.: ARC FLASH CALCULATIONS AND LABEL (CUY-70/PERSHING AVE)

PS-MOR: LIGHTING MISC.: ARC FLASH CALCULATIONS AND LABEL (CUY-70/MORGANA RUN)

PS-RUF: LIGHTING MISC.: ARC FLASH CALCULATIONS AND LABEL (CUY-70/RUFFINI CT)

625, PULL BOX CLEANED

THIS ITEM OF WORK SHALL CONSIST OF CLEANING AN EXISTING PULL BOX BY REMOVING ANY EXISTING CABLES NOT BEING RECONNECTED, AND DEBRIS SO THAT NEW CABLES CAN BE INSTALLED. ANY UNUSED OPENINGS SHALL BE CLOSED. DISTURBED AREAS NEAR THE PULL BOX SHALL BE CLEARED OF WEEDS OR DEBRIS AND SHALL BE FULLY RESTORED. MATERIAL REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF OF THE PROJECT SITE.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER C&MS ITEM 625, "PULL BOX CLEANED" FOR EACH PULL BOX CLEANED WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

625, UNDERDRAINS FOR PULLBOXES

REFERENCE TRAFFIC SCD HL-30.11 FOR DETAILS ABOUT DRAINING PULLBOXES. UNDERDRAINS FOR PULLBOXES SHALL BE USED AS DIRECTED BY THE ENGINEER AND SHALL BE PROVIDED WHERE THE LENGTH REQUIRED FOR A SATISFACTORY OUTLET DOES NOT EXCEED 20 FEET. THE FOLLOWING ESTIMATED QUANTITY IS CARRIED TO THE GENERAL SUMMARY FOR THIS PURPOSE:

ITEM 611 4" CONDUIT, TYPE E.....620 FT.

Preliminary Plans - For Reference Only

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pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Lighting\Sheets\105743_LN001.dgn

DESIGN AGENCY
AECOM

DESIGNER
CX

REVIEWER
TAS 04/08/26

PROJECT ID
105743

SHEET P.1111 TOTAL P.1269

SPECIAL, MAINTAIN EXISTING LIGHTING

EXISTING ROADWAYS WHICH ARE TO REMAIN OPEN TO TRAFFIC DURING CONSTRUCTION OF THIS PROJECT AND WHICH ARE LIGHTED SHALL HAVE THE LIGHTING MAINTAINED AS DESCRIBED HEREIN.

BEFORE ANY WORK IS STARTED IN THE IMMEDIATE VICINITY OF THE EXISTING LIGHTING CIRCUITS, REPRESENTATIVES OF ODOT, THE MAINTAINING AGENCY AND THE CONTRACTOR SHALL MAKE A VISUAL INSPECTION OF THE EXISTING ROADWAY LIGHTING CIRCUITS TO BE MAINTAINED. DURING THIS INSPECTION, A WRITTEN RECORD OF THE CONDITION OF EXISTING LIGHTING SHALL BE MADE BY ODOT'S REPRESENTATIVE. THIS WRITTEN REPORT SHALL NOTE INDIVIDUAL LUMINAIRES WHICH ARE NOT IN WORKING ORDER, INDIVIDUAL POLES WHICH ARE NOT STANDING, AND INDIVIDUAL CIRCUITS WHICH ARE NOT IN WORKING ORDER. THE COMPLETED REPORT SHALL BE SIGNED BY THE REPRESENTATIVES OF ODOT, THE MAINTAINING AGENCY AND THE CONTRACTOR.

IF, AS A RESULT OF THIS INSPECTION, IT IS DETERMINED THAT THE CONDITION OF THE EXISTING SYSTEM IS BELOW THAT REQUIRED FOR THE SAFETY OF THE TRAVELING PUBLIC, THEN THE MAINTAINING AGENCY SHALL MAKE THE REPAIRS NECESSARY TO RETURN THE SYSTEM TO AN ACCEPTABLE CONDITION. FOLLOWING THESE REPAIRS, THE SYSTEM SHALL AGAIN BE INSPECTED AND A REPORT SHALL BE MADE AND SIGNED AS OUTLINED HEREIN.

WHEN THE EXISTING SYSTEM IS IN AN ACCEPTABLE CONDITION, IT SHALL BE TURNED OVER TO THE CONTRACTOR WHO SHALL THEN BE REQUIRED TO MAINTAIN THE EXISTING LIGHTING TO THE CONDITION OUTLINED IN THIS REPORT WITH THE EXCEPTION OF KNOCKDOWNS DUE TO TRAFFIC ACCIDENTS.

REPLACEMENT OF KNOCKED DOWNED UNITS SHALL BE DONE ONLY WHEN THE ENGINEER HAS DETERMINED THAT THE REPLACEMENT OF THE KNOCKED DOWN UNIT IS NECESSARY AND SHALL BE PAID SEPARATELY ON A UNIT BASIS.

BETTERMENTS SHALL BE COVERED IN ITEMS OF WORK PERTAINING TO THE CONSTRUCTION OF PERMANENT IMPROVEMENT.

WHEN THE SEQUENCE OF CONSTRUCTION ACTIVITIES REQUIRES, OR SHOULD THE CONTRACTOR DESIRE, THE REMOVAL OF THE EXISTING LIGHTING BEFORE THE NEW LIGHTING IS OPERATIONAL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY LIGHTING OF THIS PORTION OF THE ROADWAY.

PRIOR TO INSTALLING SUCH LIGHTING, THE CONTRACTOR SHALL PREPARE AND SUBMIT FOUR SETS OF THE TEMPORARY LIGHTING PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL.

THIS PLAN SHALL SHOW LOCATIONS OF POLES, LENGTHS OF BRACKET ARMS, STYLES OF LUMINAIRES, MOUNTING HEIGHTS, WIRING METHODS AND OTHER PERTINENT INFORMATION. THE TEMPORARY LIGHTING SHALL PROVIDE AN AVERAGE INITIAL INTENSITY OF 1.2 FOOTCANDLES WITH AN AVERAGE TO MINIMUM UNIFORMITY NOT TO EXCEED 3:1. MOUNTING HEIGHT OF TEMPORARY LUMINAIRES SHALL NOT BE LESS THAN 30 FEET, AND THE MINIMUM OVERHEAD CONDUCTOR CLEARANCE SHALL BE 20 FEET. TEMPORARY OVERHEAD CONSTRUCTION SHALL NOT BE LESS THAN GRADE "B" FOR STRENGTH REQUIREMENTS AS DEFINED BY THE NATIONAL ELECTRIC SAFETY CODE. WOOD POLES WITH OVERHEAD WIRING MAY BE USED. HOWEVER, TEMPORARY LIGHTING SHALL MEET FEDERAL AND STATE SAFETY CRITERIA. IF BREAKAWAY POLES ARE USED TO MEET THESE CRITERIA, THEN UNDERGROUND WIRING SHALL BE USED. RECONDITIONED OR USED MATERIALS MAY BE FURNISHED FOR TEMPORARY LIGHTING. ALL MATERIALS NECESSARY TO COMPLETE THE TEMPORARY LIGHTING SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. WHEN NO LONGER NEEDED, THE TEMPORARY LIGHTING INSTALLATION SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR.

THE MAINTAINING AGENCY WILL PAY FOR ELECTRICAL ENERGY CONSUMED BY EXISTING POWER SERVICES AND BY PROPOSED PERMANENT POWER SERVICES AFTER ACCEPTANCE OF THE LIGHTING WORK. THE CONTRACTOR WILL PAY FOR ELECTRICAL ENERGY, INSTALLATION, REMOVAL AND MAINTENANCE OF ANY TEMPORARY POWER SERVICES.

THE LUMP SUM PRICE BID FOR ITEM SPECIAL "MAINTAIN EXISTING LIGHTING" SHALL INCLUDE PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO MAINTAIN THE EXISTING LIGHTING AS SPECIFIED HEREIN.

THE UNIT PRICE BID FOR ITEM SPECIAL "REPLACEMENT OF EXISTING LIGHTING UNIT" SHALL BE FULL PAYMENT FOR THE REPLACEMENT OF AN EXISTING LIGHTING UNIT WHICH HAS BEEN KNOCKED DOWN AFTER THE AFOREMENTIONED INSPECTION AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO PROVIDE A REPLACEMENT FOR SUCH UNIT.

THE FOLLOWING ESTIMATED QUANTITY IS CARRIED TO THE GENERAL SUMMARY FOR THIS PURPOSE AND USE AS DIRECTED BY THE PROJECT ENGINEER:

ITEM SPECIAL MAINTAIN EXISTING LIGHTING.....LS

625, LIGHT POLE FOUNDATION REMOVED

A CONTINGENCY QUANTITY IS BEING PROVIDED TO REMOVE OLDER LIGHT POLE FOUNDATIONS ALONG THE OUTSIDES OF I-77 THAT WERE PREVIOUSLY LEFT IN PLACE DURING THE CONSTRUCTION OF PROJECTS PID 98658 AND PID 98816.

THE FOLLOWING ESTIMATED QUANTITY IS CARRIED TO THE GENERAL SUMMARY FOR THIS PURPOSE AND USE AS DIRECTED BY THE PROJECT ENGINEER:

ITEM 625 LIGHT POLE FOUNDATION REMOVED.....198 EACH.

DISCONNECT CIRCUIT

THIS ITEM OF WORK SHALL CONSIST OF THE DISCONNECTION OF AN EXISTING LIGHT CIRCUIT AT A PULL BOX OR TRANSFORMER BASE.

DISCONNECTION AT A PULL BOX SHALL INVOLVE CUTTING THE EXISTING CIRCUIT AND REMOVING ALL SPLICE KITS. ANY CABLE THAT IS TO BE ABANDONED SHALL BE TERMINATED FROM THE PULL BOX SO THAT NO CABLE IS LEFT IN THE BOX.

DISCONNECTION AT A LIGHT POLE SHALL INVOLVE CUTTING THE EXISTING CIRCUIT AND REMOVING ALL CONNECTOR KITS. ALL DUCT-CABLE NOT TO BE REUSED SHALL BE REMOVED FROM THE TRANSFORMER BASE AND THE EXISTING CONDUIT IN THE FOUNDATION SHALL BE CLEANED OF ALL CABLE AND DEBRIS SO THAT THE NEW DUCT-CABLE CAN BE INSTALLED. ALL EXISTING CABLE TO REMAIN ACTIVE SHALL BE CUT IN A MANNER SO THAT THERE IS SUFFICIENT CABLE LEFT FOR RE-CONNECTION. THOSE WIRES THAT ARE TO REMAIN ON ACTIVE CIRCUITS SHALL HAVE A WATER-RESISTANT SEAL AT THE CUT END. THE WATER-RESISTANT SEAL SHALL BE ACCOMPLISHED BY PLUGGING THE DEACTIVATED PORT OF AN EXISTING CONNECTOR KIT OR BY INSTALLING A CABLE SPLICE KIT ON THE CUT END OF THE CABLE.

Preliminary Plans - For Reference Only

DESIGN AGENCY
AECOM
DESIGNER
CX
REVIEWER
TAS 04/08/26
PROJECT ID
105743
SHEET P.1112 TOTAL P.1269

CUY-77-11.41 - PART 1
MODEL: LN002 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:20:00 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - ExternalOhio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Lighting\Sheets\105743_LN002.dgn

REF NO.	ROADWAY	STATION TO STATION			625 CONNECTION, FUSED PULL APART EACH	625 CONNECTION, UNFUSED PERMANENT EACH	625 LIGHT POLE, CONVENTIONAL, A12B40 EACH	625 LIGHT POLE, LOW MAST, ALM 41.25 EACH	625 LIGHT POLE ANCHOR BOLTS, MISC.:MEDIAN MOUNTED ALM 41.25 EACH	625 LIGHT POLE FOUNDATION, 24" X 8' DEEP EACH	625 MEDIAN LIGHT POLE FOUNDATION, 10' DEEP EACH	625 NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE FT	625 NO. 10 AWG POLE AND BRACKET CABLE FT	625 1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES FT	625 CONDUIT, 4"; 725.04 FT	625 CONDUIT, JACKED OR DRILLED, 725.04, 4" FT	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (IES-II, LED, 480V, 13,400-15,000 LUMENS) EACH	625 LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN (IES-V, LED, 480V, 43,600-51,000 LUMENS) EACH	625 LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN (LED, 120V, 4,000-6,900 LUMENS) EACH	625 TRENCH FT	625 TRANSITION JUNCTION BOX EACH	625 MEDIAN JUNCTION BOX EACH	625 PULL BOX, 725.08, 18" EACH	625 PULL BOX, 725.08, 24" EACH	625 GROUND ROD EACH	625 POWER SERVICE, AS PER PLAN EACH	625 UNDERGROUND WARNING/MARKING TAPE FT	625 SERVICE TO UNDERPASS LIGHTING, AS PER PLAN EACH	625 LIGHTING, MISC.:ARC FLASH CALCULATIONS AND LABEL EACH
PB-GRA4	I-77	77+35	LT			3																	1						
GRA-A19	RAMP A3	301+23	LT		2		1			1			156				1								1				
		301+23	LT	302+19										110							100						100		
GRA-A18	RAMP A3	302+19	LT		2		1			1			156				1								1				
		302+19	LT	304+15										210							200						200		
GRA-A17	RAMP A3	304+15	LT		2		1			1			156				1								1				
		304+15	LT	306+12										210							200						200		
GRA-A15	RAMP A3	308+03	LT		2		1			1			156				1								1				
		308+03	LT	306+12										200							190						190		
GRA-A16	RAMP A3	306+12	LT		2	3	1			1			156				1								1				
		306+12	LT	306+12								150			40						40						40		
PB-GRA3	RAMP A3	306+12	RT																				1						
		306+12	RT	83+07								255				75													
GRA-A5	I-77	77+25	CL		2			1	4		1		124						1			1			1				
		77+25	CL	79+43								690																	
GRA-A6	I-77	79+43	CL		2			1	4		1		124						1			1			1				
		79+43	CL	81+35								615																	
GRA-A7	I-77	81+35	CL		2			1	4		1		124						1			1			1				
		81+35	CL	83+07								555																	
JB-GRA1	I-77	83+07	CL			3																1							
		83+07	CL	83+80								255																	
GRA-A14	I-77	95+72	CL		2			1	4		1		124						1			1			1				
		95+72	CL	93+92								570																	
GRA-A13	I-77	93+92	CL		2			1	4		1		124						1			1			1				
		93+92	CL	91+78								675																	
GRA-A12	I-77	91+78	CL		2			1	4		1		124						1			1			1				
		91+78	CL	90+24								495																	
GRA-A11	I-77	90+24	CL		2			1	4		1		124						1			1			1				
		90+24	CL	87+96								720																	
GRA-A10	I-77	87+96	CL		2			1	4		1		124						1			1			1				
		87+96	CL	85+70								720																	
GRA-A9	I-77	85+70	CL		2			1	4		1		124						1			1			1				
		85+70	CL	83+80								600																	
GRA-A8	I-77	83+80	CL		2	3		1	4		1		124						1			1			1				
		83+80	CL	83+80								300				90													
PB-GRA2	RAMP A4	83+80	RT			3																	1						
		83+80	RT	407+08										150							140						140		
GRA-A4	RAMP A4	407+08	RT		2		1			1			156				1								1				
		407+08	RT	405+11										205							195						195		
GRA-A3	RAMP A4	405+11	RT		2		1			1			156				1								1				
		405+11	RT	403+16										205							195						195		
GRA-A2	RAMP A4	403+16	RT		2		1			1			156				1								1				
		403+16	RT	401+20										210							200						200		
GRA-A1	RAMP A4	401+20	RT		2		1			1			156				1								1				
		401+20	RT	400+52										90							80						80		
PB-GRA1	RAMP A4	400+52	RT			3																			1				
		400+52	RT	400+48								90			15						15						15		
PS-GRA	RAMP A4	400+48	RT																							1			1
HAR-A13	I-77	97+93	CL		2			1	4		1		124						1			1			1				
		97+93	CL	100+21								720																	
HAR-A12	I-77	100+21	CL		2			1	4		1		124						1			1			1				
		100+21	CL	102+49								720																	
HAR-A11	I-77	102+49	CL		2			1	4		1		124						1			1			1				
		102+49	CL	104+76								720																	
HAR-A10	I-77	104+76	CL		2			1	4		1		124						1			1			1				
		104+76	CL	107+01								705																	
TOTALS CARRIED TO SUBSUMMARY 6					46	18	9	14	56	9	14	9555	3140	1590	55	165	9	14		1555		15	3	1	23	1	1555		1

Preliminary Plans - For Reference Only

LIGHTING SUBSUMMARY 1

CUY-77-11.41 - PART 1

MODEL: LS001 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:20:06 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\C-Engineering\Lighting\Sheets\105743_LS001.dgn

DESIGN AGENCY
AECOM

DESIGNER
CX

REVIEWER
TAS 04/08/26

PROJECT ID
105743

SHEET P.1113 | TOTAL P.1269

REF NO.	ROADWAY	STATION TO STATION			625 CONNECTION, FUSED PULL APART EACH	625 CONNECTION, UNFUSED PERMANENT EACH	625 LIGHT POLE, CONVENTIONAL, A12B40 EACH	625 LIGHT POLE, LOW MAST, ALM 41.25 EACH	625 LIGHT POLE ANCHOR BOLTS, MISC.:MEDIAN MOUNTED ALM 41.25 EACH	625 LIGHT POLE FOUNDATION, 24" X 8' DEEP EACH	625 MEDIAN LIGHT POLE FOUNDATION, 10' DEEP EACH	625 NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE FT	625 NO. 10 AWG POLE AND BRACKET CABLE FT	625 1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES FT	625 CONDUIT, 4", 725.04 FT	625 CONDUIT, JACKED OR DRILLED, 725.04, 4" FT	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (IES-II, LED, 480V, 13,400-15,000 LUMENS) EACH	625 LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN (IES-V, LED, 480V, 43,600-51,000 LUMENS) EACH	625 LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN (LED, 120V, 4,000-6,900 LUMENS) EACH	625 TRENCH FT	625 TRANSITION JUNCTION BOX EACH	625 MEDIAN JUNCTION BOX EACH	625 PULL BOX, 725.08, 18" EACH	625 PULL BOX, 725.08, 24" EACH	625 GROUND ROD EACH	625 POWER SERVICE, AS PER PLAN EACH	625 UNDERGROUND WARNING/MARKING TAPE FT	625 SERVICE TO UNDERPASS LIGHTING, AS PER PLAN EACH	625 LIGHTING, MISC.:ARC FLASH CALCULATIONS AND LABEL EACH
HAR-A9	I-77	107+01	CL		2			1	4		1		124					1				1			1					
		107+01	CL	109+29								720																		
HAR-A8	I-77	109+29	CL		2			1	4		1		124					1				1			1					
		109+29	CL	111+52								705																		
HAR-A7	I-77	111+52	CL		2			1	4		1		124					1				1			1					
		111+52	CL	113+56								645																		
HAR-A6	I-77	113+56	CL		2			1	4		1		124					1				1			1					
		113+56	CL	115+84								720																		
HAR-A5	I-77	115+84	CL		2			1	4		1		124					1				1			1					
		115+84	CL	117+14								420																		
HAR-A14	RAMP B1	103+54	RT		2		1			1			156				1								1					
		103+54	RT	105+51										205							195								195	
HAR-A15	RAMP B1	105+51	RT		2		1			1			156				1								1					
		105+51	RT	106+04										70							60								60	
HAR-A17	RAMP B1	109+36	RT		2																									
		109+36	RT	107+51										195							185								185	
HAR-A16	RAMP B1	107+51	RT		2		1			1			156				1								1					
		107+51	RT	106+04										155							145								145	
PB-HAR8	RAMP B1	106+04	RT			3																		1						
		106+04	RT	306+12								165			45						45								45	
PB-HAR7	RAMP B1	106+04	LT			3																		1						
		106+04	LT	111+97										360							350								350	
PB-HAR6	I-77	111+97	RT																					1						
		111+97	RT	404+56										520							510								510	
HAR-A18	RAMP B4	400+74	RT		2																									
		400+74	RT	402+57										195							185								185	
HAR-A19	RAMP B4	402+57	RT		2		1			1			156				1								1					
		402+57	RT	404+56										210							200								200	
HAR-A21	RAMP B4	406+57	RT		2		1			1			156				1								1					
		406+57	RT	404+56										210							200								200	
HAR-A20	RAMP B4	404+56	RT		2	3	1			1			156				1								1					
		404+56	RT	404+56								165			45						45								45	
PB-HAR5	RAMP B4	404+56	LT																					1						
		404+56	LT	117+14								240				70														
JB-HAR1	I-77	117+14	CL			3																	1							
		117+14	CL	118+13								330																		
HAR-A4	I-77	118+13	CL		2			1	4		1		124					1				1			1					
		118+13	CL	120+43								720																		
HAR-A3	I-77	120+43	CL		2			1	4		1		124					1				1			1					
		120+43	CL	122+69								720																		
HAR-A2	I-77	122+69	CL		2			1	4		1		124					1				1			1					
		122+69	CL	124+94								705																		
HAR-A1	I-77	122+69	CL		2			1	4		1		124					1				1			1					
		122+69	CL	127+20								705																		
HAR-C8	RAMP B2	202+04	LT		2		1			1			156				1								1					
		202+04	LT	203+94										200							190								190	
HAR-C6	RAMP B2	205+61	LT		2																									
		205+61	LT	203+94										180							170								170	
HAR-C7	RAMP B2	203+94	LT		2	3	1			1			156				1								1					
		203+94	LT	203+94								165			45						45								45	
PB-HAR4	RAMP B2	203+94	RT			3																		1						
		203+94	RT	113+86										410							400								400	
TOTALS CARRIED TO SUBSUMMARY 6					40	18	8	9	36	8	9	7125	2364	2910	135	70	8	9			2925		10	5		17			2925		

Preliminary Plans - For Reference Only

LIGHTING SUBSUMMARY 2

CUY-77-11.41 - PART 1

MODEL: LS002 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:20:11 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Lighting\Sheets\105743_LS002.dgn

DESIGN AGENCY
AECOM

DESIGNER
CX

REVIEWER
TAS 04/08/26

PROJECT ID
105743

SHEET P.1114 TOTAL P.1269

REF NO.	ROADWAY	STATION TO STATION			625 CONNECTION, FUSED PULL APART EACH	625 CONNECTION, UNFUSED PERMANENT EACH	625 LIGHT POLE, CONVENTIONAL, A12B40 EACH	625 LIGHT POLE, LOW MAST, ALM 41.25 EACH	625 LIGHT POLE ANCHOR BOLTS, MISC.:MEDIAN MOUNTED ALM 41.25 EACH	625 LIGHT POLE FOUNDATION, 24" X 8' DEEP EACH	625 MEDIAN LIGHT POLE FOUNDATION, 10' DEEP EACH	625 NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE FT	625 NO. 10 AWG POLE AND BRACKET CABLE FT	625 1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES FT	625 CONDUIT, 4", 725.04 FT	625 CONDUIT, JACKED OR DRILLED, 725.04, 4" FT	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (IES-II, LED, 480V, 13,400-15,000 LUMENS) EACH	625 LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN (IES-V, LED, 480V, 43,600-51,000 LUMENS) EACH	625 LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN (LED, 120V, 4,000-6,900 LUMENS) EACH	625 TRENCH FT	625 TRANSITION JUNCTION BOX EACH	625 MEDIAN JUNCTION BOX EACH	625 PULL BOX, 725.08, 18" EACH	625 PULL BOX, 725.08, 24" EACH	625 GROUND ROD EACH	625 POWER SERVICE, AS PER PLAN EACH	625 UNDERGROUND WARNING/MARKING TAPE FT	625 SERVICE TO UNDERPASS LIGHTING, AS PER PLAN EACH	625 LIGHTING, MISC.:ARC FLASH CALCULATIONS AND LABEL EACH
PB-HAR3	I-77	113+86	LT																				1						
		113+86	LT	306+95										525							515							515		
PB-HAR2	RAMP B3	306+95	RT			3																		1						
		306+95	RT	306+95								165			45						45							45		
HAR-C5	RAMP B3	301+13	LT		2																									
		301+13	LT	302+94										195							185							185		
HAR-C4	RAMP B3	302+94	LT		2		1			1			156				1								1					
		302+94	LT	304+93										210							200							200		
HAR-C3	RAMP B3	304+93	LT		2		1			1			156				1								1					
		304+93	LT	306+95										215							205							205		
HAR-C2	RAMP B3	306+95	LT		2	3	1			1			156				1								1					
		306+95	LT	308+97										215							205							205		
HAR-C1	RAMP B3	308+97	LT		2		1			1			156				1								1					
		308+97	LT	124+00										325							315							315		
PB-HAR17	I-77	124+00	LT																				1							
		124+00	LT	127+20										330							320							320		
HAR-B12	I-77	152+30	CL		2			1	4		1		124					1				1				1				
		152+30	CL	150+01								720																		
HAR-B11	I-77	150+01	CL		2			1	4		1		124					1				1				1				
		150+01	CL	147+77								705																		
HAR-B27	RAMP C2	206+97	LT		2		1			1			156				1										1				
		206+97	LT	204+99										210							200							200		
HAR-B26	RAMP C2	204+99	LT		2		1			1			156				1										1				
		204+99	LT	203+71										140							130							130		
PB-HAR16	RAMP C2	203+71	LT			3																		1						
		203+71	LT	203+71								135			35						35							35		
PB-HAR15	RAMP C2	203+71	RT			3																		1						
		203+71	RT	202+96										85							75							75		
HAR-B25	RAMP C2	202+96	RT		2		1			1			156				1										1				
		202+96	RT	201+51										155							145							145		
HAR-B24	RAMP C2	201+51	RT		2		1			1			156				1										1				
		201+51	RT	147+77								105			25						25							25		
PB-HAR14	I-77	147+77	LT																				1							
		147+77	LT	147+77								240				70														
HAR-B10	I-77	147+77	CL		2	3		1	4		1		124					1				1				1				
		147+77	CL	145+42								735																		
HAR-B9	I-77	145+42	CL		2			1	4		1		124					1				1				1				
		145+42	CL	143+12								720																		
HAR-B8	I-77	143+12	CL		2			1	4		1		124					1				1				1				
		143+12	CL	140+57								795																		
HAR-B7	I-77	140+57	CL		2			1	4		1		124					1				1				1				
		140+57	CL	138+39								690																		
HAR-B6	I-77	138+39	CL		2			1	4		1		124					1				1				1				
		138+39	CL	136+13								705																		
HAR-B5	I-77	136+13	CL		2			1	4		1		124					1				1				1				
		136+13	CL	133+89								705																		
HAR-B4	I-77	133+89	CL		2			1	4		1		124					1				1				1				
		133+89	CL	131+64								705																		
HAR-B3	I-77	131+64	CL		2			1	4		1		124					1				1				1				
		131+64	CL	127+20								705																		
HAR-B21	RAMP C3	300+72	RT		2		1			1			156				1										1				
		300+72	RT	302+68										210							200							200		
HAR-B22	RAMP C3	302+68	RT		2		1			1			156				1										1				
		302+68	RT	303+95										140							130							130		
TOTALS CARRIED TO SUBSUMMARY 6					42	15	10	10	40	10	10	7830	2800	2955	105	70	10	10		2930		10	6		20		2930		

Preliminary Plans – Not For Reference Only

LIGHTING SUBSUMMARY 3

DESIGN AGENCY
AECOM

DESIGNER CX
REVIEWER TAS 04/08/26
PROJECT ID 105743
SHEET P.1115 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: LS003 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:20:16 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Lighting\Sheets\105743_LS003.dgn

REF NO.	ROADWAY	STATION TO STATION			625 CONNECTION, FUSED PULL APART EACH	625 CONNECTION, UNFUSED PERMANENT EACH	625 LIGHT POLE, CONVENTIONAL, A12B40 EACH	625 LIGHT POLE, LOW MAST, ALM 41.25 EACH	625 LIGHT POLE ANCHOR BOLTS, MISC.:MEDJAN MOUNTED ALM 41.25 EACH	625 LIGHT POLE FOUNDATION, 24" X 8' DEEP EACH	625 MEDIAN LIGHT POLE FOUNDATION, 10' DEEP EACH	625 NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE FT	625 NO. 10 AWG POLE AND BRACKET CABLE FT	625 1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES FT	625 CONDUIT, 4", 725.04 FT	625 CONDUIT, JACKED OR DRILLED, 725.04, 4" FT	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (IES-II, LED, 480V, 13,400-15,000 LUMENS) EACH	625 LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN (IES-V, LED, 480V, 43,600-51,000 LUMENS) EACH	625 LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN (LED, 120V, 4,000-6,900 LUMENS) EACH	625 TRENCH FT	625 TRANSITION JUNCTION BOX EACH	625 MEDIAN JUNCTION BOX EACH	625 PULL BOX, 725.08, 18" EACH	625 PULL BOX, 725.08, 24" EACH	625 GROUND ROD EACH	625 POWER SERVICE, AS PER PLAN EACH	625 UNDERGROUND WARNING/MARKING TAPE FT	625 SERVICE TO UNDERPASS LIGHTING, AS PER PLAN EACH	625 LIGHTING, MISC.:ARC FLASH CALCULATIONS AND LABEL EACH
HAR-B23	RAMP C3	304+64	RT		2		1			1			156				1									1			
		304+64	RT	303+95										80							70							70		
PB-HAR13	RAMP C3	303+95	RT			3																		1					
		303+95	RT	303+95								150			40						40							40		
PB-HAR12	RAMP C3	303+95	LT			3																		1					
		303+95	LT	140+09										615							605							605		
PB-HAR11	I-77	140+09	RT																					1					
		140+09	RT	105+84										625							615							615		
PB-HAR10	RAMP C3	105+84	LT			3																		1					
		105+84	LT	105+84								165			45						45							45		
PB-EX	RAMP C1	112+18	RT			3																							
		112+18	RT	111+62										65							55							55		
HAR-B18	RAMP C1	111+62	RT		2		1			1			156				1									1			
		111+62	RT	109+71										200							190							190		
HAR-B17	RAMP C1	109+71	RT		2		1			1			156				1				190					1				
		109+71	RT	107+80										200							190							190		
HAR-B16	RAMP C1	107+80	RT		2		1			1			156				1									1			
		107+80	RT	105+84										210							200							200		
HAR-B15	RAMP C1	105+84	RT		2	3	1			1			156				1									1			
		105+84	RT	103+94										200							190							190		
HAR-B14	RAMP C1	103+94	RT		2		1			1			156				1									1			
		103+94	RT	101+98										205							195							195		
HAR-B13	RAMP C1	101+98	RT		2		1			1			156				1									1			
		101+98	RT	101+32										75							65							65		
PB-HAR9	RAMP C1	101+32	LT			3																		1					
		101+32	LT	129+39								270				80													
HAR-B2	I-77	129+39	CL		2	3		1	4		1		124						1			1				1			
		129+39	CL	127+20								690																	
HAR-B1	I-77	127+20	CL		2			1	4		1		124						1			1				1			
		127+20	CL	127+20								480				70													
PB-HAR1	RAMP B3	127+20	LT			3																			1				
		127+20	LT	127+30								225			10						10							10		
PS-HAR	RAMP B3	127+30	LT																								1			1
PER-A16	I-77	154+66	CL		2			1	4		1		124						1			1				1			
		154+66	CL	156+78								675																	
PER-A15	I-77	156+78	CL		2			1	4		1		124						1			1				1			
		156+78	CL	158+89								675																	
PER-A14	I-77	158+89	CL		2			1	4		1		124						1			1				1			
		158+89	CL	161+00								660																	
PER-A13	I-77	161+00	CL		2			1	4		1		124						1			1				1			
		161+00	CL	163+67								840																	
PER-A12	I-77	163+67	CL		2			1	4		1		124						1			1				1			
		163+67	CL	165+96								720																	
PER-A11	I-77	165+96	CL		2			1	4		1		124						1			1				1			
		165+96	CL	168+11								675																	
PER-A10	I-77	168+11	CL		2			1	4		1		124		100				1			2	1			1			
		168+11	CL	170+04								615																	
PER-A9	I-77	170+04	CL		2			1	4		1		124						1				1			1			
		170+04	CL	172+09								645																	
PER-A8	I-77	172+09	CL		2			1	4		1		124						1				1			1			
		172+09	CL	174+21								675																	
PER-A7	I-77	174+21	CL		2			1	4		1		124		140				1			2	1			1			
		174+21	CL	176+36								675																	
TOTALS CARRIED TO SUBSUMMARY 6					38	24	7	12	48	7	12	8835	2580	2475	335	150	7	12		2470	4	12	5	1	19	1	2470		1

Preliminary Plans - Not For Reference Only

DESIGN AGENCY
AECOM
DESIGNER CX
REVIEWER TAS 04/08/26
PROJECT ID 105743
SHEET P.1116 TOTAL P.1269

CUY-77-11.41 - PART 1
MODEL: LS004 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:20:21 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Lighting\Sheets\105743_LS004.dgn

LIGHTING SUBSUMMARY 5

REF NO.	ROADWAY	STATION TO STATION			625 CONNECTION, FUSED PULL APART EACH	625 CONNECTION, UNFUSED PERMANENT EACH	625 LIGHT POLE, CONVENTIONAL, A12B40 EACH	625 LIGHT POLE, LOW MAST, ALM 41.25 EACH	625 LIGHT POLE ANCHOR BOLTS, MISC.:MEDIAN MOUNTED ALM 41.25 EACH	625 LIGHT POLE FOUNDATION, 24" X 8' DEEP EACH	625 MEDIAN LIGHT POLE FOUNDATION, 10' DEEP EACH	625 NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE FT	625 NO. 10 AWG POLE AND BRACKET CABLE FT	625 1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES FT	625 CONDUIT, 4", 725.04 FT	625 CONDUIT, JACKED OR DRILLED, 725.04, 4" FT	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (IES-II, LED, 480V, 13,400-15,000 LUMENS) EACH	625 LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN (IES-V, LED, 480V, 43,600-51,000 LUMENS) EACH	625 LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN (LED, 120V, 4,000-6,900 LUMENS) EACH	625 TRENCH FT	625 TRANSITION JUNCTION BOX EACH	625 MEDIAN JUNCTION BOX EACH	625 PULL BOX, 725.08, 18" EACH	625 PULL BOX, 725.08, 24" EACH	625 GROUND ROD EACH	625 POWER SERVICE, AS PER PLAN EACH	625 UNDERGROUND WARNING/MARKING TAPE FT	625 SERVICE TO UNDERPASS LIGHTING, AS PER PLAN EACH	625 LIGHTING, MISC.:ARC FLASH CALCULATIONS AND LABEL EACH
PER-A6	I-77	176+36	CL		2			1	4		1		124					1			1			1					
		176+36	CL	178+55								690																	
PER-A5	I-77	178+55	CL		2			1	4		1		124					1			1			1					
		178+55	CL	180+82								720																	
PER-A4	I-77	180+82	CL		2			1	4		1		124					1			1			1					
		180+82	CL	183+12								720																	
PER-A3	I-77	183+12	CL		2			1	4		1		124					1			1			1					
		183+12	CL	185+36								705																	
PER-A2	I-77	185+36	CL		2			1	4		1		124					1			1			1					
		185+36	CL	187+66								720																	
PER-A1	I-77	187+66	CL		2			1	4		1		124					1			1			1					
		187+66	CL	189+43								555																	
PER-B15	RAMP D2	206+14	LT		2																								
		206+14	LT	204+41										185						175								175	
PER-B14	RAMP D2	204+41	LT		2		1			1			156				1								1				
		204+41	LT	202+45										205						195								195	
PER-B13	RAMP D2	202+45	LT		2		1			1			156				1								1				
		202+45	LT	200+64										195						185								185	
PB-PER4	RAMP D2	200+64	LT			3																			1				
		200+64	LT	189+95								300				90													
PER-B12	I-77	214+35	CL		2			1	4		1		124					1			1			1					
		214+35	CL	212+15								690																	
PER-B11	I-77	212+15	CL		2			1	4		1		124					1			1			1					
		212+15	CL	209+90								705																	
PER-B10	I-77	209+90	CL		2			1	4		1		124					1			1			1					
		209+90	CL	207+65								705																	
PER-B9	I-77	207+65	CL		2			1	4		1		124					1			1			1					
		207+65	CL	205+39								705																	
PER-B8	I-77	205+39	CL		2			1	4		1		124					1			1			1					
		205+39	CL	203+14								705																	
PER-B7	I-77	203+14	CL		2			1	4		1		124					1			1			1					
		203+14	CL	200+85								720																	
PER-B6	I-77	200+85	CL		2			1	4		1		124					1			1			1					
		200+85	CL	198+89								630																	
PER-B5	I-77	198+89	CL		2			1	4		1		124					1			1			1					
		198+89	CL	196+77								675																	
PER-B4	I-77	196+77	CL		2			1	4		1		124					1			1			1					
		196+77	CL	194+51								705																	
PER-B3	I-77	194+51	CL		2			1	4		1		124					1			1			1					
		194+51	CL	192+24								720																	
PER-B2	I-77	192+24	CL		2			1	4		1		124					1			1			1					
		192+24	CL	189+95								720																	
PER-B1	I-77	189+95	CL		2	3		1	4		1		124					1			1			1					
		189+95	CL	189+43								195																	
JB-PER1	I-77	189+43	CL																						1				
		189+43	CL	101+90								570				85													
PER-C13	RAMP E1	112+90	LT		2		1			1			156				1								1				
		112+90	LT	111+80										120						110								110	
PB-PER7	RAMP E1	111+80	LT			3																			1				
		111+80	LT	111+80								195			55					55								55	
PER-C12	RAMP E1	112+29	RT		2		1			1			156				1								1				
		112+29	RT	111+80										65						55								55	
PB-PER6	RAMP E1	111+80	RT			3																			1				
		111+80	RT	111+03										90						80								80	
TOTALS CARRIED TO SUBSUMMARY 6					46	12	4	18	72	4	18	13050	2856	860	55	175	4	18		855		19	3		22		855		

Preliminary Plans - For Reference Only

MODEL: LS005 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:20:25 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Lighting\Sheets\105743_LS005.dgn

DESIGN AGENCY
AECOM

DESIGNER CX
REVIEWER TAS 04/08/26
PROJECT ID 105743
SHEET P.1117 TOTAL P.1269

REF NO.	ROADWAY	STATION TO STATION			625 CONNECTION, FUSED PULL APART EACH	625 CONNECTION, UNFUSED PERMANENT EACH	625 LIGHT POLE, CONVENTIONAL, A12B40 EACH	625 LIGHT POLE, LOW MAST, ALM 41.25 EACH	625 LIGHT POLE ANCHOR BOLTS, MISC.:MEDIAN MOUNTED ALM 41.25 EACH	625 LIGHT POLE FOUNDATION, 24" X 8' DEEP EACH	625 MEDIAN LIGHT POLE FOUNDATION, 10' DEEP EACH	625 NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE FT	625 NO. 10 AWG POLE AND BRACKET CABLE FT	625 1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES FT	625 CONDUIT, 4", 725.04 FT	625 CONDUIT, JACKED OR DRILLED, 725.04, 4" FT	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (IES-II, LED, 480V, 13,400-15,000 LUMENS) EACH	625 LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN (IES-V, LED, 480V, 43,600-51,000 LUMENS) EACH	625 LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN (LED, 120V, 4,000-6,900 LUMENS) EACH	625 TRENCH FT	625 TRANSITION JUNCTION BOX EACH	625 MEDIAN JUNCTION BOX EACH	625 PULL BOX, 725.08, 18" EACH	625 PULL BOX, 725.08, 24" EACH	625 GROUND ROD EACH	625 POWER SERVICE, AS PER PLAN EACH	625 UNDERGROUND WARNING/MARKING TAPE FT	625 SERVICE TO UNDERPASS LIGHTING, AS PER PLAN EACH	625 LIGHTING, MISC.:ARC FLASH CALCULATIONS AND LABEL EACH
PER-C11	RAMP E1	111+03	RT		2		1			1			156				1									1				
		111+03	RT	109+10										205							195							195		
PER-C10	RAMP E1	109+10	RT		2		1			1			156				1									1				
		109+10	RT	107+17										205							195							195		
PER-C9	RAMP E1	107+17	RT		2		1			1			156				1									1				
		107+17	RT	105+27										200							190							190		
PER-C8	RAMP E1	105+27	RT		2		1			1			156				1									1				
		105+27	RT	103+31										205							195							195		
PER-C7	RAMP E1	103+31	RT		2		1			1			156				1									1				
		103+31	RT	197+35										420							410							410		
PB-PER5	I-77	197+35	RT																					1						
		197+35	RT	103+92										580							570							570		
PB-PER3	RAMP D1	103+92	RT			3																		1						
		103+92	RT	103+92								150			40						40							40		
PER-C4	RAMP D1	107+25	RT		2																									
		107+25	RT	105+50										185							175							175		
PER-C3	RAMP D1	105+50	RT		2		1			1			156				1									1				
		105+50	RT	103+92										170							160							160		
PB-PER2	RAMP D1	103+92	RT			3																		1						
		103+92	RT	103+53										50							40							40		
PER-C2	RAMP D1	103+53	RT		2		1			1			156				1									1				
		103+53	RT	101+90										175							165							165		
PER-C1	RAMP D1	101+58	RT		2		1			1			156				1									1				
		101+58	RT	101+90										45							35							35		
PB-PER1	RAMP D1	101+90	RT			3																			1					
		101+90	RT	101+90								270			15						15							15		
PS-PER	RAMP D1	101+90	RT																								1			1
UP LT	MORGANA																			3				2				1	
PS-MOR	MORGANA	22+32	RT																								1			1
UP LT	RUFFINI																			2				1				1	
PS-RUF	RUFFINI	175+84	RT																								1			1
TOTALS CARRIED TO THIS SHEET					18	9	8			8		420	1248	2440	55		8		5	2385			6	1	8	3	2385	2	3

TOTALS CARRIED FROM SUBSUMMARY 1					46	18	9	14	56	9	14	9555	3140	1590	55	165	9	14		1555		15	3	1	23	1	1555		1
TOTALS CARRIED FROM SUBSUMMARY 2					40	18	8	9	36	8	9	7125	2364	2910	135	70	8	9		2925		10	5		17		2925		
TOTALS CARRIED FROM SUBSUMMARY 3					42	15	10	10	40	10	10	7830	2800	2955	105	70	10	10		2930		10	6		20		2930		
TOTALS CARRIED FROM SUBSUMMARY 4					38	24	7	12	48	7	12	8835	2580	2475	335	150	7	12		2470	4	12	5	1	19	1	2470		1
TOTALS CARRIED FROM SUBSUMMARY 5					46	12	4	18	72	4	18	13050	2856	860	55	175	4	18		855		19	3		22		855		
TOTALS FROM THIS SHEET					18	9	8			8		420	1248	2440	55		8		5	2385			6	1	8	3	2385	2	3
TOTALS CARRIED TO GENERAL SUMMARY					230	96	46	63	252	46	63	46815	14988	13230	740	630	46	63	5	13120	4	66	28	3	109	5	13120	2	5

Preliminary Plans - For Reference Only

MODEL: LS006 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:20:30 PM PLTDRV: OHDOT_PDF.pltdg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Lighting\Sheets\105743_LS006.dgn

DESIGN AGENCY
AECOM

DESIGNER
CX

REVIEWER
TAS 04/08/26

PROJECT ID
105743

SHEET P.1118 | TOTAL P.1269

REF NO.	ROADWAY	STATION TO STATION			625 PULL BOX REMOVED EACH	625 PULL BOX CLEANED EACH	625 LIGHT POLE REMOVED EACH	625 POWER SERVICE REMOVED EACH	625 LIGHT POLE FOUNDATION REMOVED EACH	625 DISCONNECT CIRCUIT EACH
RP	I-77	FROM RP-1	TO	RP-13			13		13	
		75+00	LT/RT	82+50						
PB-EX		75+00	LT/RT	82+50						
RP	I-77	FROM RP-14	TO	RP-26			13		13	
		82+50	LT/RT	95+00						
RP	I-77	FROM RP-27	TO	RP-38			12		12	
		95+00	LT/RT	107+50						
RP	I-77	FROM RP-39	TO	RP-58			20		20	
PB-RM		107+50	LT/RT	120+00	7					
RP	I-77	FROM RP-59	TO	RP-73			15		15	
		120+00		132+50						
RM-1	I-77	127+13	LT					1		1
RP	I-77	FROM RP-74	TO	RP-98			25		25	
PB-RM		132+50		145+00	2					
PB-EX	RAMP C1	112+44	RT			1				
RP	I-77	FROM RP-99	TO	RP-123			25		25	
PB-RM		145+00		157+50	7					
RM-2	RAMP C2	204+68	LT					1		1
RM-3	I-77	151+27	RT					1		1
RP	I-77	FROM RP-124	TO	RP-132			9		9	
		157+50		170+00						
RP	I-77	FROM RP-133	TO	RP-150			18		18	
		170+00		182+50						
RP	I-77	FROM RP-151	TO	RP-175			25		25	
PB-RM		182+50		195+00	4					
RM-4	RAMP D1	102+00	RT					1		1
RP	I-77	FROM RP-176	TO	RP-189			14		14	
		195+00		207+50						
RM-5	RAMP D2	208+50	LT					1		1
RP	I-77	FROM RP-190	TO	RP-198			9		9	
		207+50		220+00						
TOTALS CARRIED TO GENERAL SUMMARY					20	1	198	5	198	5

Preliminary Plans - Not For Reference Only

LIGHTING SUBSUMMARY 7

DESIGN AGENCY
AECOM

DESIGNER CX
REVIEWER TAS 04/08/26
PROJECT ID 105743
SHEET P.1119 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: LS007 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:20:35 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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MODEL: CLP_I077 - Plan 1 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:20:53 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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Preliminary Plans - For Reference Only

LEGEND

- LOW MAST LIGHT POLE (41.25' SUPPORT HEIGHT) W/ 1-LED LUMINAIRE, TYPE V (SYMMETRIC(AL))
- 40' LIGHT POLE WITH LED LUMINAIRE
- WALL MOUNTED UNDERPASS LED LUMINAIRE
- 1-1/2" DUCT CABLE WITH 3 WIRE NO. 4 AWG 2400 VOLT CABLES, 2 CONDUCTORS, 480 VOLT, WITH GROUND
- 3 WIRE NO. 4 AWG 2400 VOLT CABLES, 2 CONDUCTORS, 480 VOLT, WITH GROUND, IN 4" CONDUIT IN MEDIAN BARRIER
- 4" CONDUIT, 725.04, WITH 3 WIRE NO. 4 AWG 2400 VOLT CABLES, 2 CONDUCTORS, 480 VOLT, WITH GROUND
- POWER SERVICE/LCC SINGLE PHASE, 3-WIRE (2 CONDUCTORS, 480V, WITH GROUND)
- EXISTING POWER SERVICE/LCC
- PULL BOX / JUNCTION BOX
- EXISTING LIGHTING POLE

PB-EX — EXISTING PULL BOXES & CONDUITS TO REMAIN (DO NOT DISTURB)

STA. 400+38, RAMP A4
67' RT. EXISTING
LIGHTING CONTROL
CENTER TO REMAIN

PS-GRA — STA. 400+48, RAMP A4
63' RT.
GROUND MOUNTED
LIGHTING CONTROL
CENTER (LCC)

4" CONDUIT, 725.04
CKT GRA-A, 3-NO. 4 AWG

PB-GRA1 — STA. 400+52, RAMP A4
51' RT.
PULL BOX, 725.08, 24"
(3 SPLICES)

RP-7 — STA. 400+97, RAMP A4
15' RT. EXISTING POLE
TO BE REMOVED

GRA-A1 — STA. 401+20, RAMP A4
15' RT.
LIGHT POLE AT12B40

RP-8 — STA. 77+09, I-77
68' RT. EXISTING POLE
TO BE REMOVED

RP-9 — STA. 402+49, RAMP A4
10' RT. EXISTING POLE
TO BE REMOVED

GRA-A2 — STA. 403+16, RAMP A4
15' RT.
LIGHT POLE AT12B40

RP-10 — STA. 79+08, I-77
69' RT. EXISTING POLE
TO BE REMOVED

RP-11 — STA. 404+02, RAMP A4
9' RT. EXISTING POLE
TO BE REMOVED

GRA-A3 — STA. 405+11, RAMP A4
15' RT.
LIGHT POLE AT12B40

RP-12 — STA. 405+45, RAMP A4
9' RT. EXISTING POLE
TO BE REMOVED

RP-13 — STA. 81+06, I-77
59' RT. EXISTING POLE
TO BE REMOVED

GRA-A4 — STA. 407+08, RAMP A4
15' RT.
LIGHT POLE AT12B40

GRA-A5 — STA. 77+25, ℄ I-77
LIGHT POLE ALM 41.25

RP-1 — STA. 77+35, I-77
57' LT. EXISTING POLE
TO BE REMOVED

PB-GRA4 — STA. 77+35, I-77
57' LT.
PULL BOX, 725.08, 18"
(3 SPLICES)
CONNECT TO
EXISTING CIRCUIT

PB-EX — EXISTING PULL BOXES & CONDUITS TO REMAIN (DO NOT DISTURB)

STA. 301+07, RAMP A3
67' LT. EXISTING
LIGHTING CONTROL
CENTER TO REMAIN

GRA-A19 — STA. 301+23, RAMP A3
24' LT.
LIGHT POLE AT12B40

RP-2 — STA. 301+37, RAMP A3
22' LT. EXISTING POLE
TO BE REMOVED

GRA-A18 — STA. 302+19, RAMP A3
13' LT.
LIGHT POLE AT12B40

RP-3 — STA. 79+40, I-77
66' LT. EXISTING POLE
TO BE REMOVED

GRA-A6 — STA. 79+43, ℄ I-77
LIGHT POLE ALM 41.25

RP-4 — STA. 303+02, RAMP A3
12' LT. EXISTING POLE
TO BE REMOVED

GRA-A17 — STA. 304+15, RAMP A3
15' LT.
LIGHT POLE AT12B40

RP-5 — STA. 81+40, I-77
66' LT. EXISTING POLE
TO BE REMOVED

RP-6 — STA. 304+65, RAMP A3
12' LT. EXISTING POLE
TO BE REMOVED

GRA-A7 — STA. 81+35, ℄ I-77
LIGHT POLE ALM 41.25

RAMP A1 · RAMP A2 · RAMP A3 · RAMP A4 · GRANT AVENUE · I.R. 77 NB · I.R. 77 SB · ℄ CONST. I.R. 77 · CKT GRA-A · Ex LA-R/W · Ex R/W · CS SAN

MATCH LINE STA. 82+50

FOR CIRCUIT DIAGRAM SEE SHEET P.1132.

LIGHTING PLAN
BEGINNING T0 STA. 82+50

HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGNER	CX
REVIEWER	TAS 04/08/26
PROJECT ID	105743
SHEET	P.1120
TOTAL	P.1269

AECOM — DESIGN AGENCY

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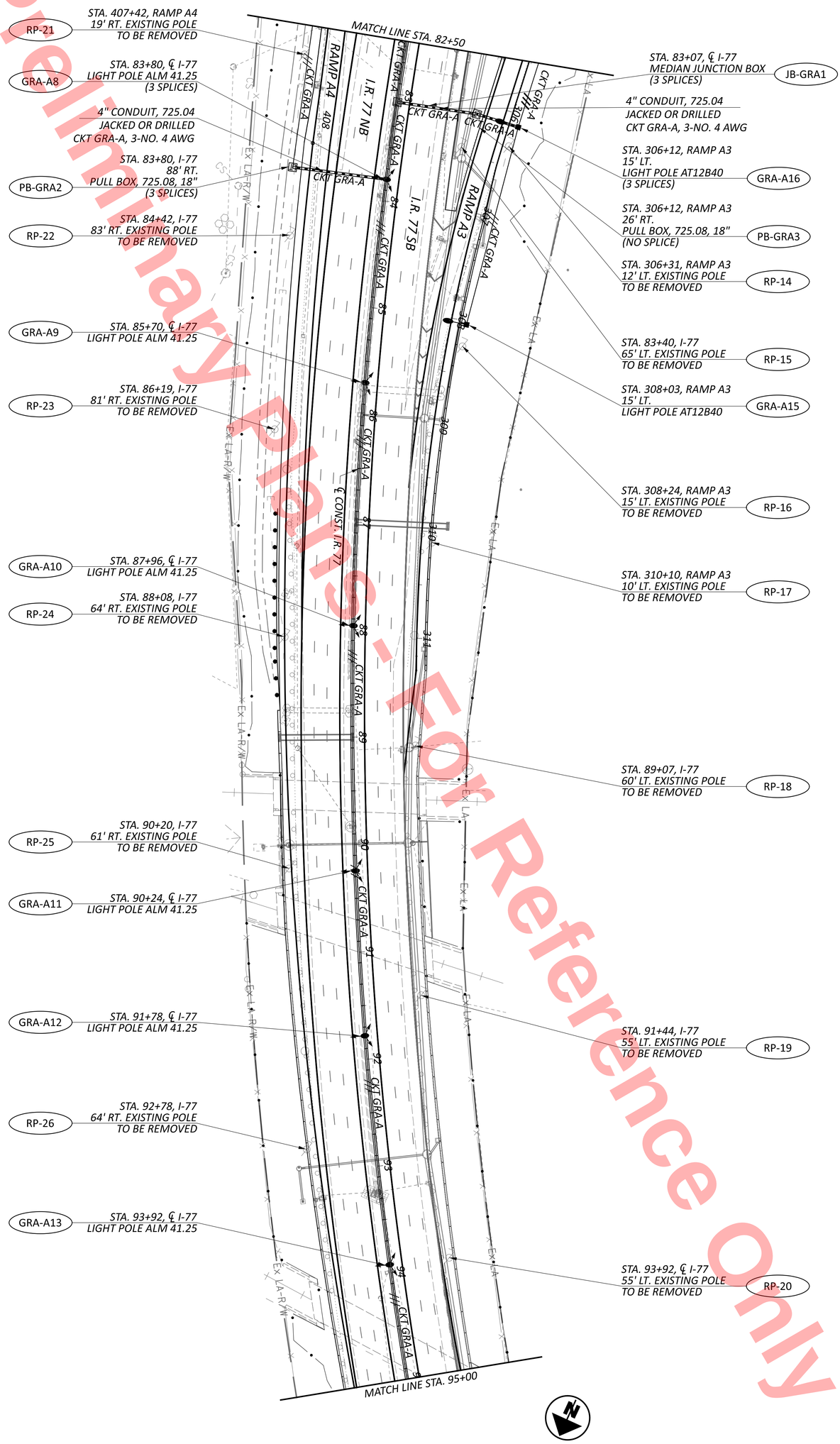
Preliminary Plans - For Reference Only



FOR LEGEND SEE SHEET P.1120.
FOR CIRCUIT DIAGRAM SEE SHEET P.1132.

SHEET P.1121 / TOTAL P.1269	PROJECT ID 105743	REVIEWER TAS 04/08/26	DESIGNER CX	AECOM	DESIGN AGENCY

LIGHTING PLAN
STA. 82+50 TO 95+00

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLP_I077 - Plan 3 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:21:20 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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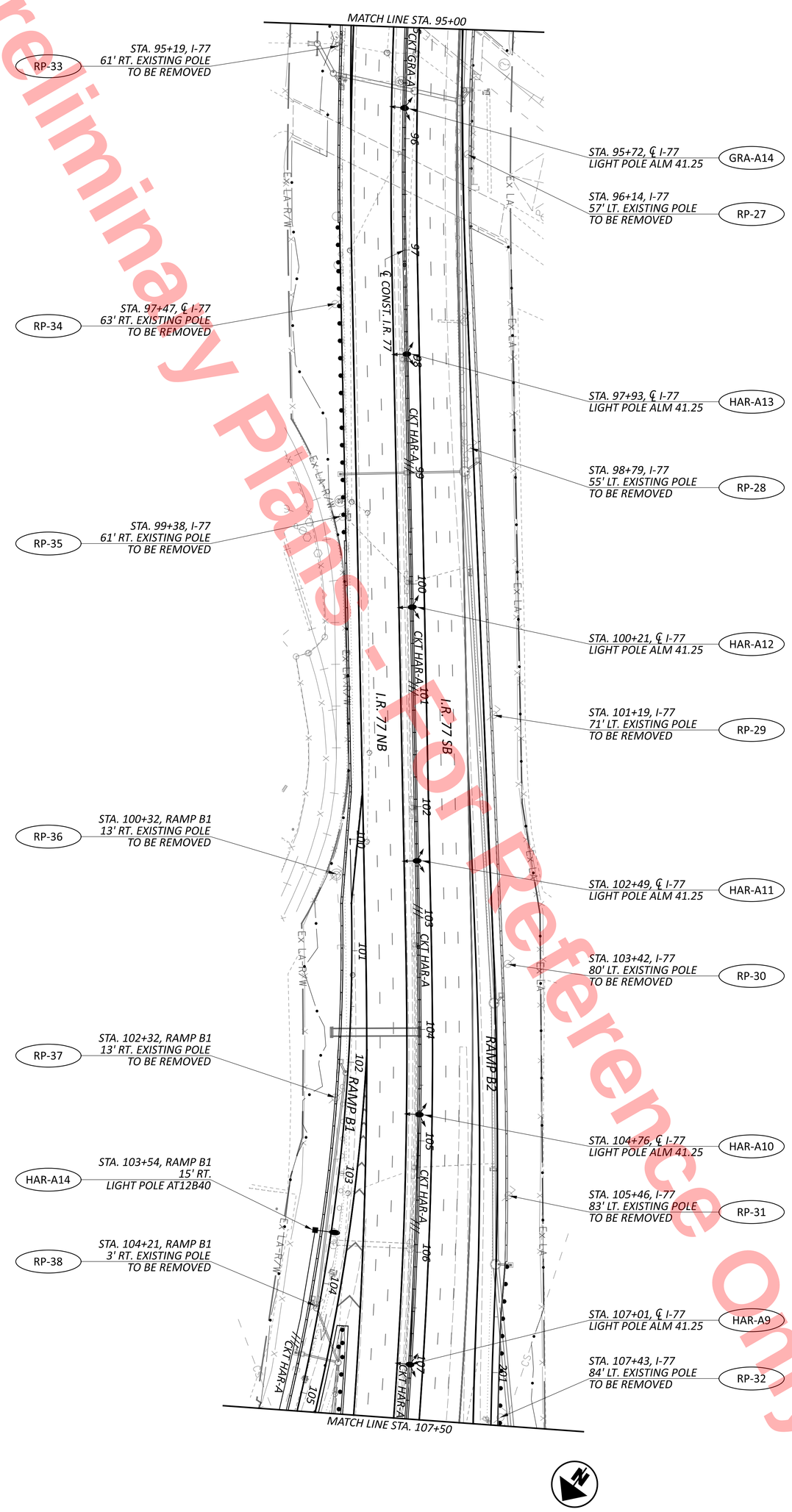
Preliminary Plans - For Reference Only



FOR LEGEND SEE SHEET P.1120.
FOR CIRCUIT DIAGRAM SEE SHEET P.1132.

SHEET	TOTAL	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1122	P.1269	105743	TAS 04/08/26	CX	AECOM

LIGHTING PLAN
STA. 95+00 TO STA. 107+50

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLP_I077 - Plan 4 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:21:33 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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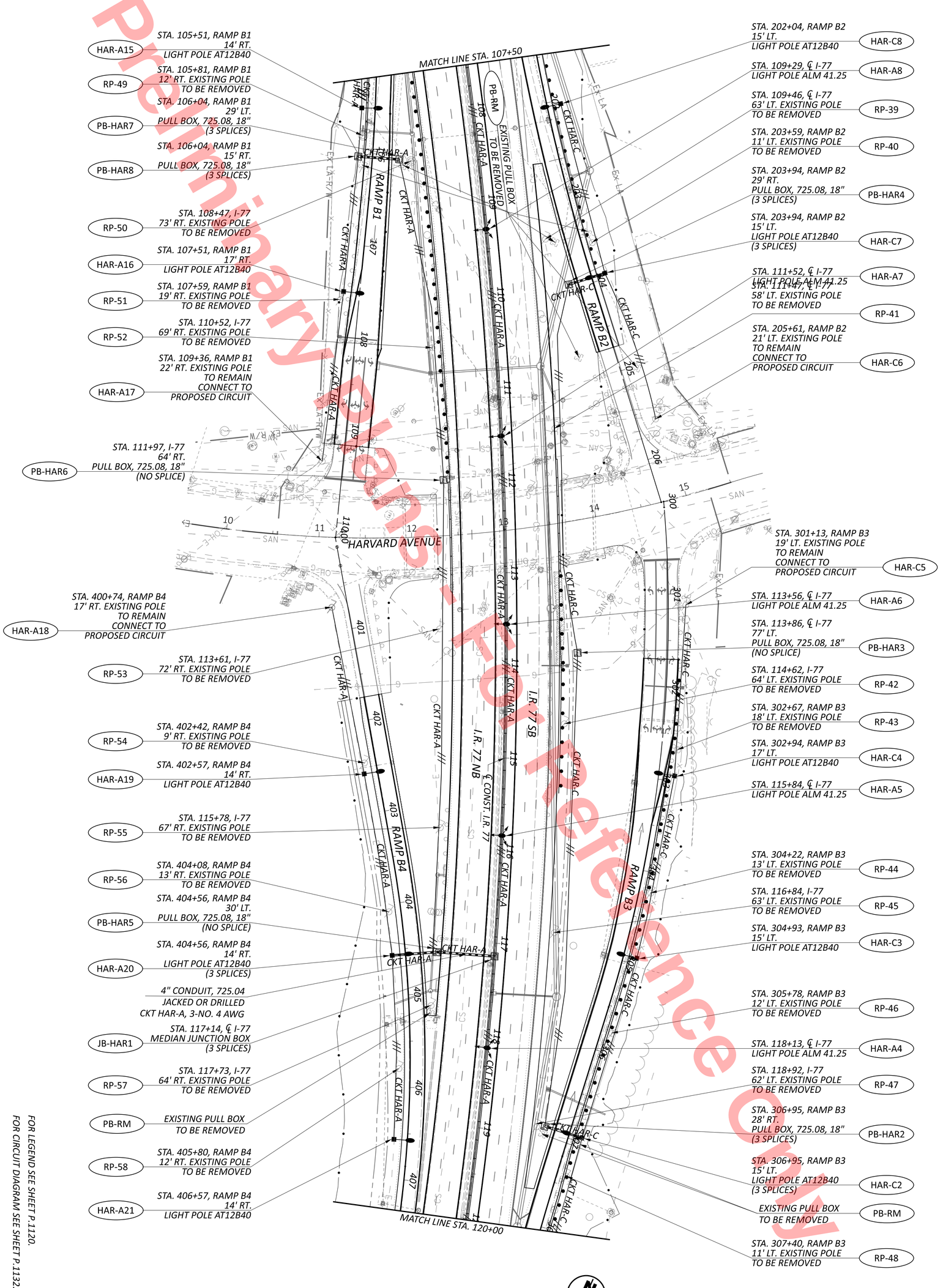
Preliminary Plans - For Reference Only



FOR LEGEND SEE SHEET P.1120.
FOR CIRCUIT DIAGRAM SEE SHEET P.1132.

SHEET	TOTAL
P.1123	P.1269

PROJECT ID 105743

REVIEWER TAS 04/08/26

DESIGNER CX

AECOM

DESIGN AGENCY

LIGHTING PLAN
STA. 107+50 TO STA. 120+00

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLP_I077 - Plan 5 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:21:41 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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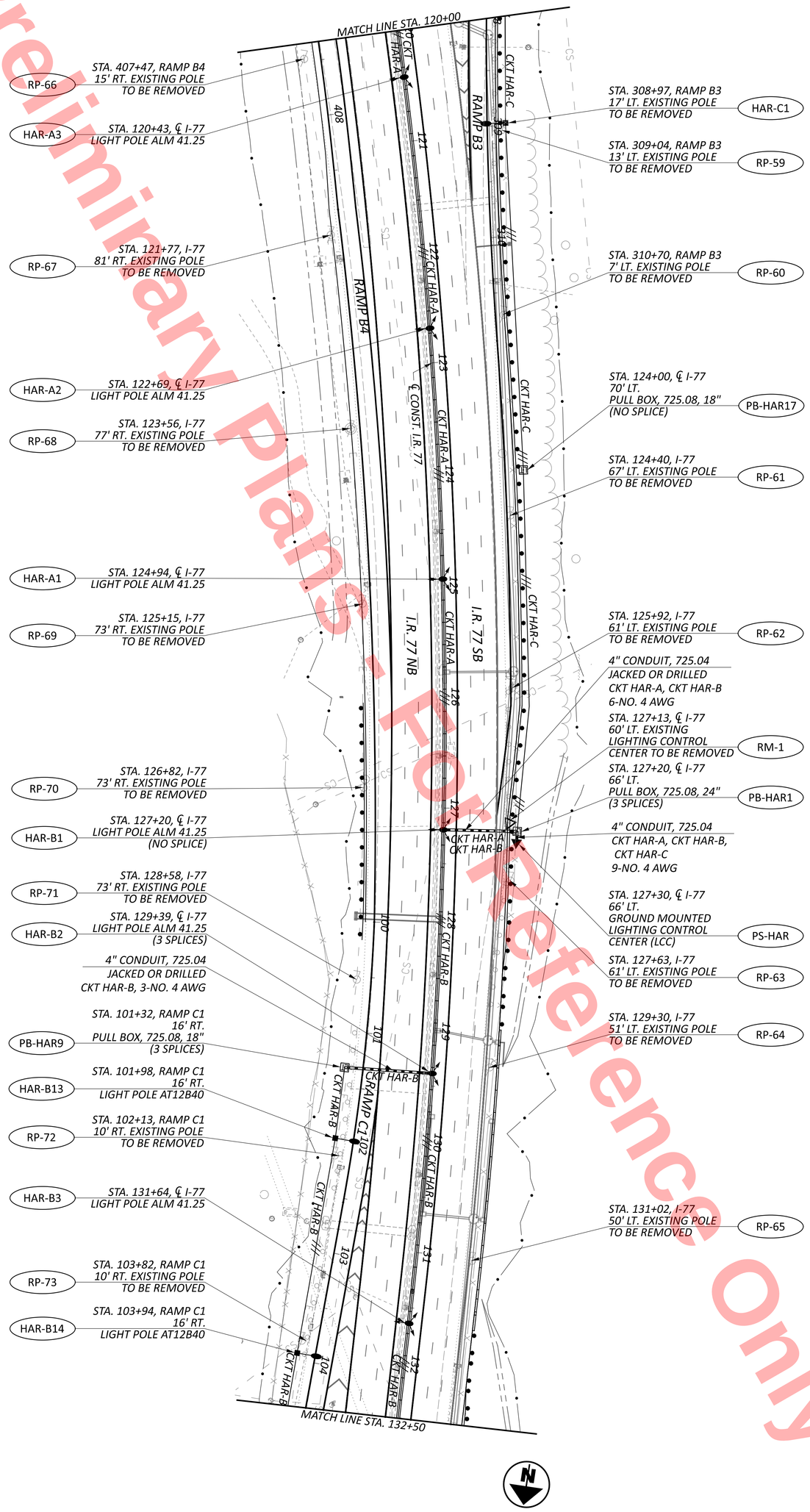
Preliminary Plans - For Reference Only



FOR LEGEND SEE SHEET P.1120.
FOR CIRCUIT DIAGRAM SEE SHEET P.1132.

SHEET	TOTAL
P.1124	P.1269

PROJECT ID	REVIEWER	DESIGNER
105743	TAS 04/08/26	CX

AECOM

DESIGN AGENCY

LIGHTING PLAN
STA. 120+00 TO STA. 132+50

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLP_I077 - Plan 6 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:21:54 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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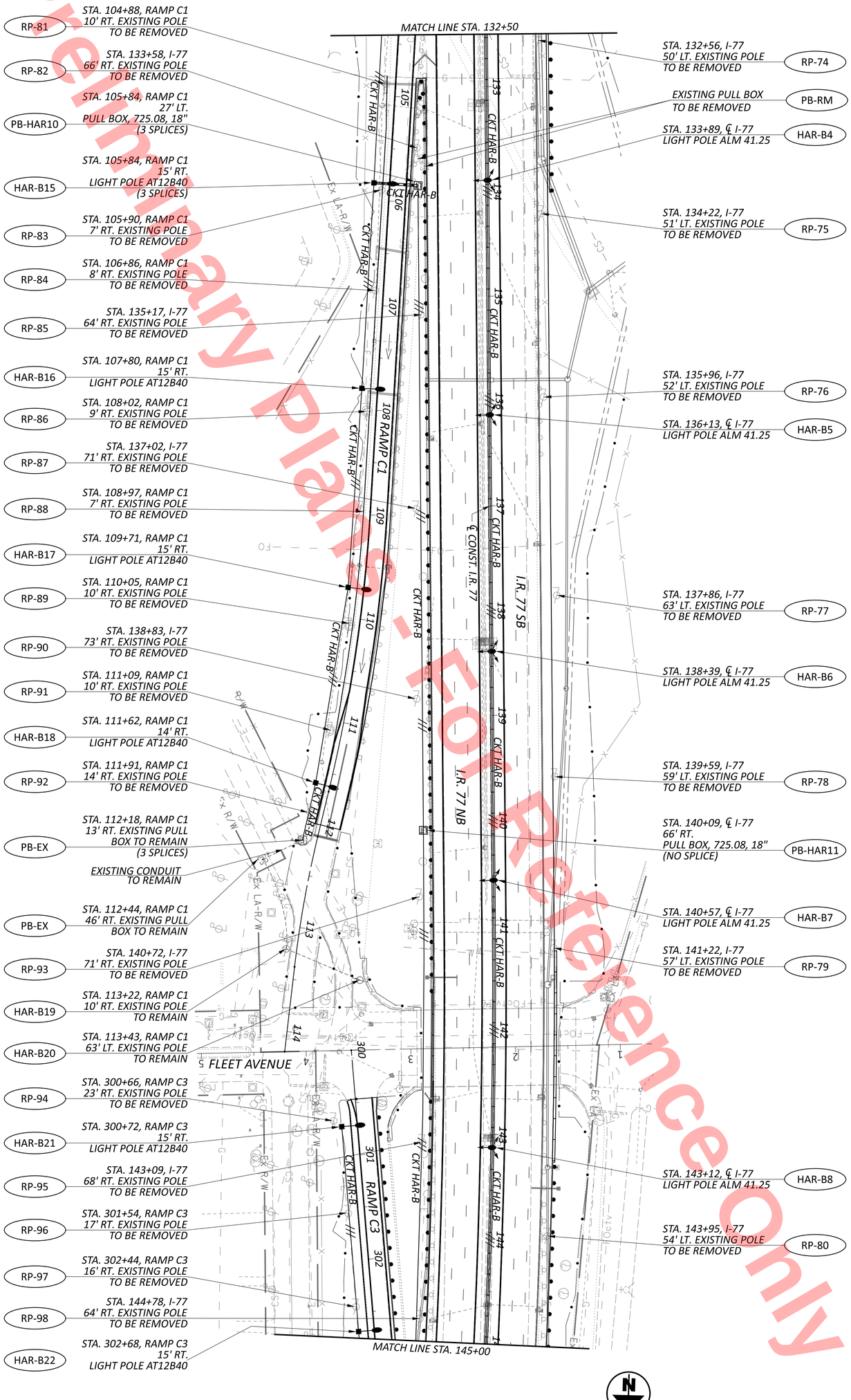
Preliminary Plans - For Reference Only



FOR LEGEND SEE SHEET P.1120.
FOR CIRCUIT DIAGRAM SEE SHEET P.1132.

SHEET P.1125 / TOTAL P.1269	PROJECT ID 105743	REVIEWER TAS 04/08/26	DESIGNER CX	AECOM	DESIGN AGENCY

LIGHTING PLAN
STA. 132+50 TO STA. 145+00

HORIZONTAL SCALE IN FEET
0 50
25 100

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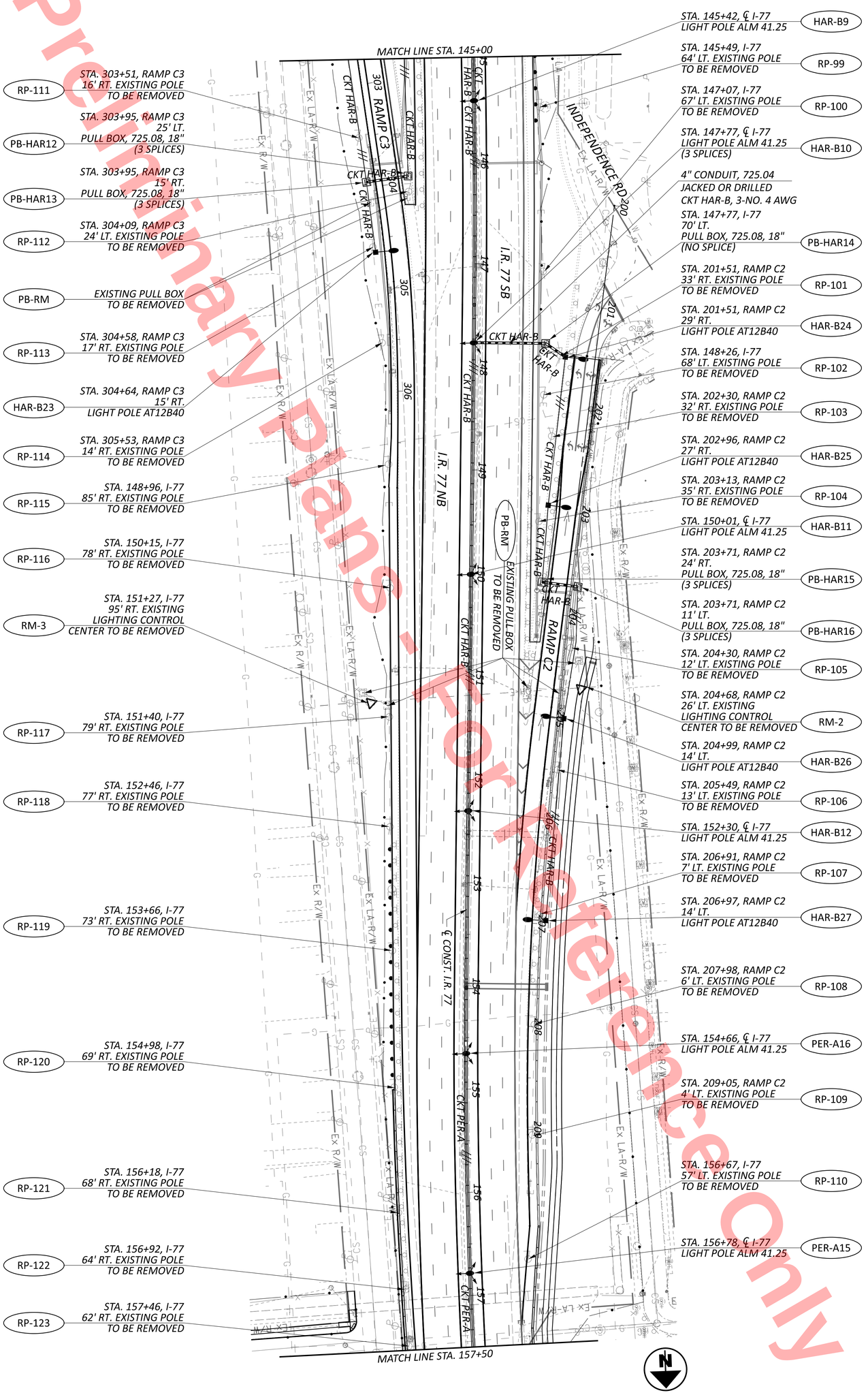
Preliminary Plans - For Reference Only



FOR LEGEND SEE SHEET P.1120.
FOR CIRCUIT DIAGRAM SEE SHEET P.1132.

LIGHTING PLAN
STA. 145+00 TO STA. 157+50

SHEET	TOTAL	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1126	P.1269	105743	TAS 04/08/26	CX	AECOM

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLP_I077 - Plan 8 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:22:18 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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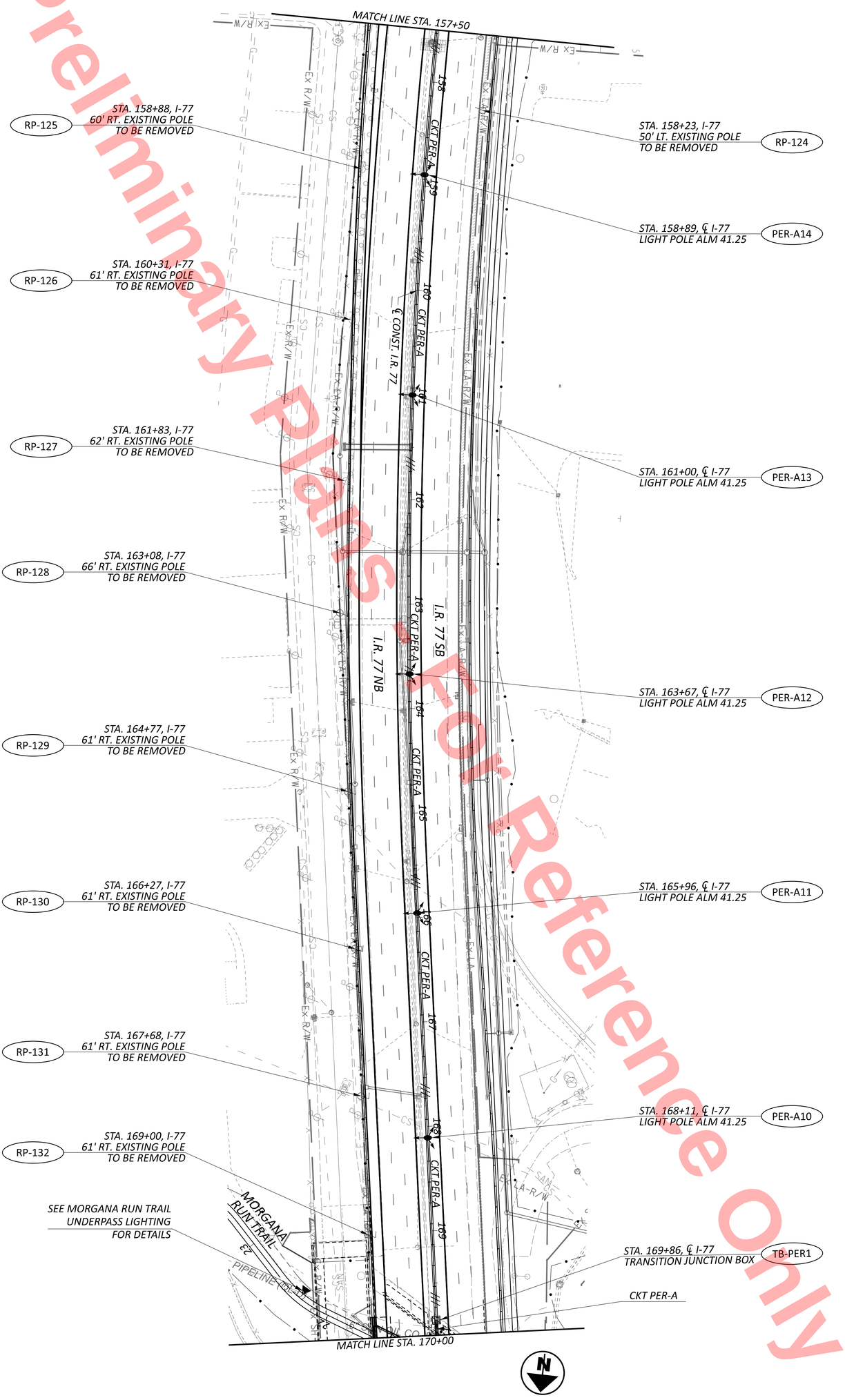
Preliminary Plans - For Reference Only



FOR LEGEND SEE SHEET P.1120.
FOR CIRCUIT DIAGRAM SEE SHEET P.1132.
FOR MORGANA RUN TRAIL UNDERPASS LIGHTING DETAILS SEE SHEET P.1133.

SHEET	TOTAL	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1127	P.1269	105743	TAS 04/08/26	CX	AECOM

LIGHTING PLAN
STA. 157+50 TO STA. 170+00

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLP_I077 - Plan 9 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:22:32 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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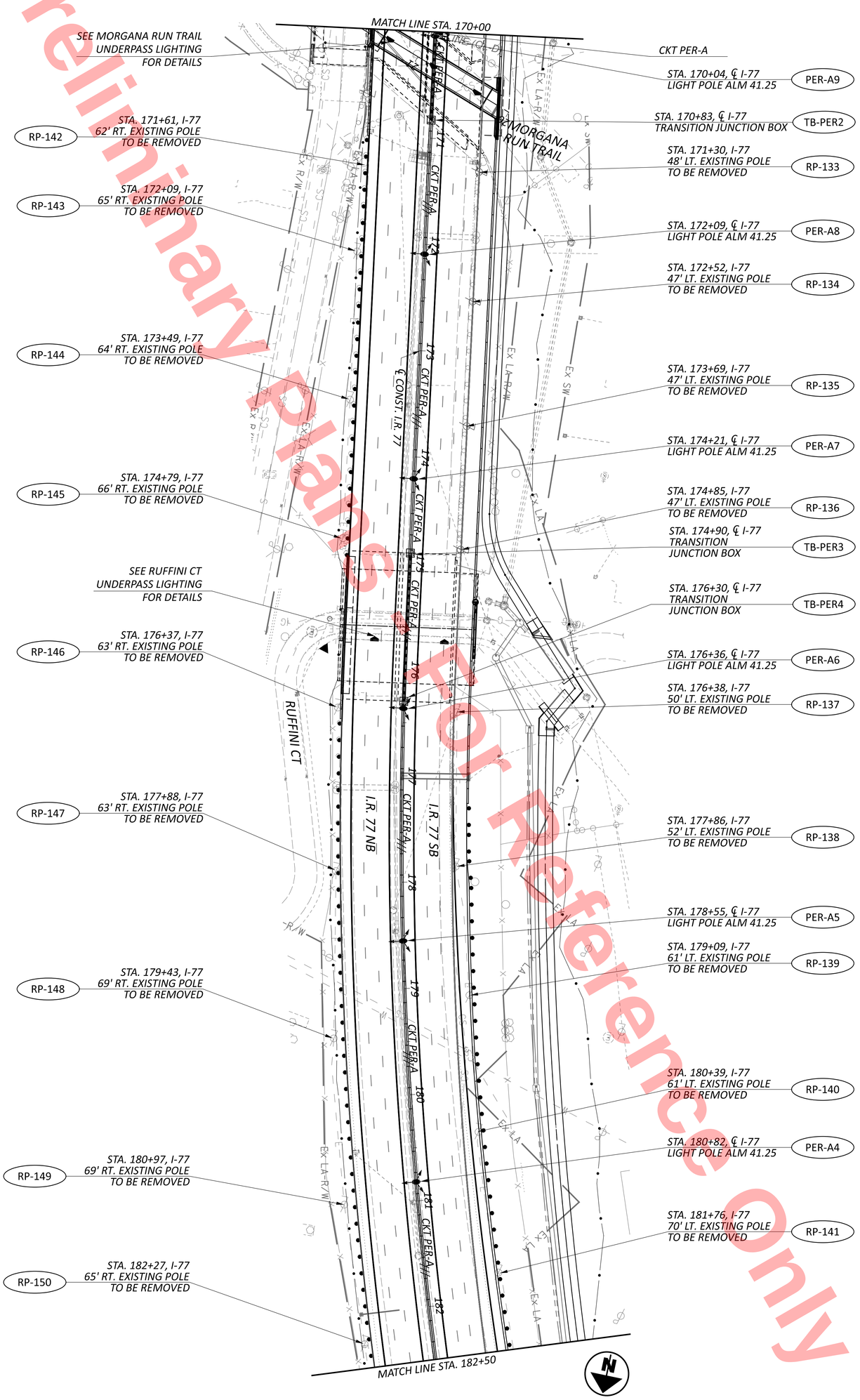
Preliminary Plans For Reference Only



FOR LEGEND SEE SHEET P.1120.
FOR CIRCUIT DIAGRAM SEE SHEET P.1132.
FOR MORGANA RUN TRAIL UNDERPASS LIGHTING DETAILS SEE SHEET P.1133.
FOR RUFFINI CT UNDERPASS LIGHTING DETAILS SEE SHEET P.1134.

SHEET	TOTAL	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1128	P.1269	105743	TAS 04/08/26	CX	AECOM

LIGHTING PLAN
STA. 170+00 TO STA. 182+50

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLP_I077 - Plan 10 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:22:42 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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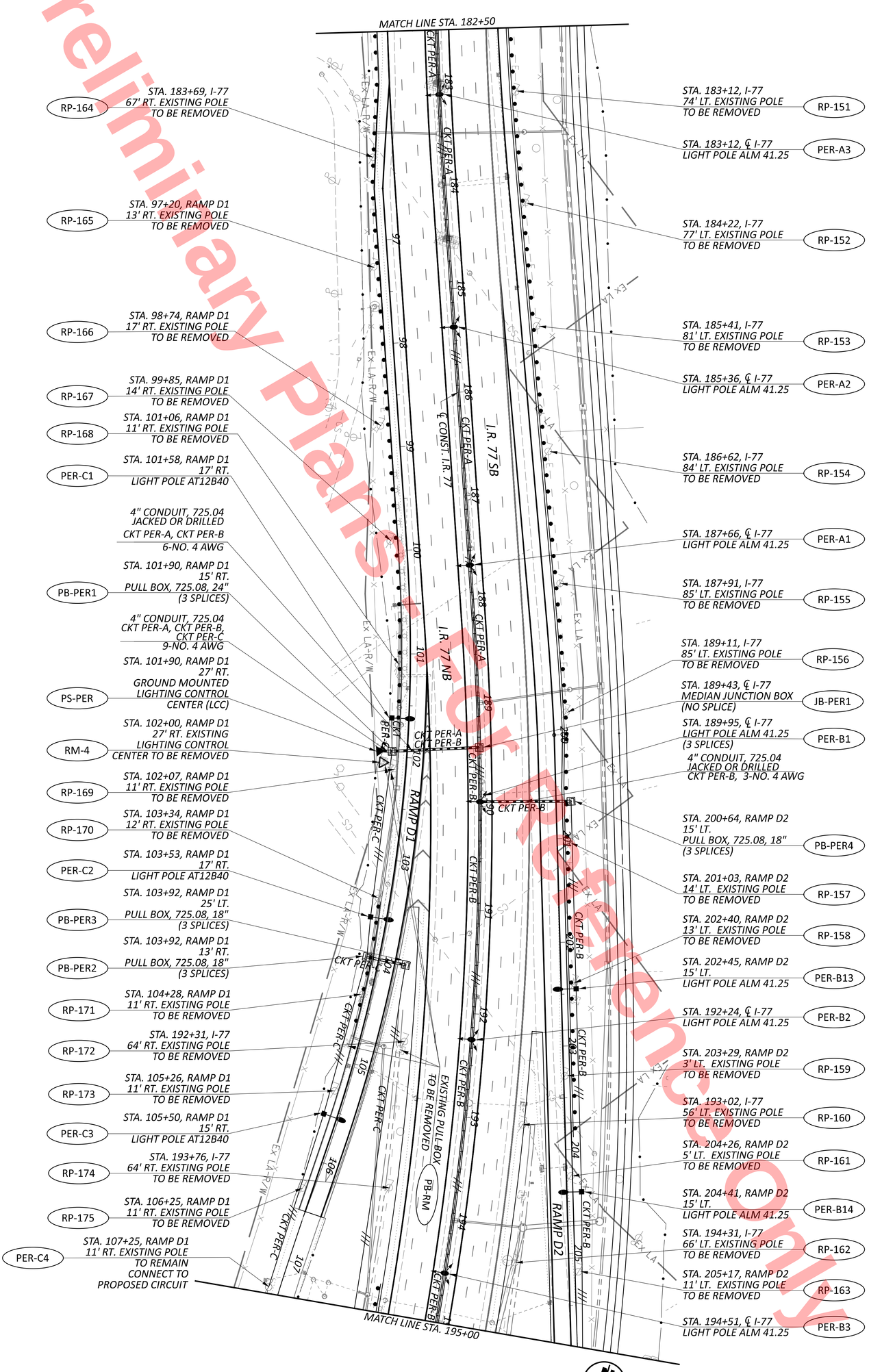
Preliminary Plans For Reference Only



FOR LEGEND SEE SHEET P.1120.
FOR CIRCUIT DIAGRAM SEE SHEET P.1132.

SHEET P.1129 / TOTAL P.1269	PROJECT ID 105743	REVIEWER TAS 04/08/26	DESIGNER CX	AECOM	DESIGN AGENCY

LIGHTING PLAN
STA. 182+50 TO STA. 195+00

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLP_I077 - Plan 11 PAPERSIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 2:22:53 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@trcext.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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Preliminary Plans - For Reference Only

MATCH LINE STA. 195+00

RP-178 — STA. 195+14, I-77, 65' RT. EXISTING POLE, TO BE REMOVED

PER-C5 — STA. 108+26, RAMP D1, 10' RT. EXISTING POLE, TO REMAIN

RP-179 — STA. 196+61, I-77, 65' RT. EXISTING POLE, TO BE REMOVED

PER-C6 — STA. 109+26, RAMP D1, 9' RT. EXISTING POLE, TO REMAIN

PB-PER5 — STA. 197+35, ℄ I-77, 76' RT., PULL BOX, 725.08, 18", (NO SPLICE)

RP-180 — STA. 100+71, RAMP E1, 18' RT. EXISTING POLE, TO BE REMOVED

RP-181 — STA. 101+88, RAMP E1, 19' RT. EXISTING POLE, TO BE REMOVED

RP-185 — STA. 103+11, RAMP E1, 15' RT. EXISTING POLE, TO BE REMOVED

PER-C7 — STA. 103+31, RAMP E1, 16' RT., LIGHT POLE AT12B40

RP-183 — STA. 104+35, RAMP E1, 6' RT. EXISTING POLE, TO BE REMOVED

PER-C8 — STA. 105+27, RAMP E1, 16' RT., LIGHT POLE AT12B40

RP-184 — STA. 105+50, RAMP E1, 3' LT. EXISTING POLE, TO BE REMOVED

RP-185 — STA. 106+43, RAMP E1, 2' LT. EXISTING POLE, TO BE REMOVED

PER-C9 — STA. 107+17, RAMP E1, 14' RT., LIGHT POLE AT12B40

RP-186 — STA. 107+34, RAMP E1, 9' LT. EXISTING POLE, TO BE REMOVED

RP-187 — STA. 108+29, RAMP E1, 5' LT. EXISTING POLE, TO BE REMOVED

RP-188 — STA. 207+37, I-77, 71' RT. EXISTING POLE, TO BE REMOVED

PER-C10 — STA. 109+10, RAMP E1, 14' RT., LIGHT POLE AT12B40

RP-189 — STA. 109+27, RAMP E1, 3' RT. EXISTING POLE, TO BE REMOVED

PER-B15 — STA. 206+14, RAMP D2, 12' LT. EXISTING POLE, TO REMAIN, CONNECT TO PROPOSED CIRCUIT

RP-176 — STA. 195+80, I-77, 66' LT. EXISTING POLE, TO BE REMOVED

PER-B16 — STA. 207+20, RAMP D2, 12' LT. EXISTING POLE, TO REMAIN

PER-B4 — STA. 196+77, ℄ I-77, LIGHT POLE ALM 41.25

RP-177 — STA. 197+09, I-77, 66' LT. EXISTING POLE, TO BE REMOVED

PER-B17 — STA. 208+115, RAMP D2, 11' LT. EXISTING POLE, TO REMAIN

RM-5 — STA. 208+50, RAMP D2, 64' LT. EXISTING LIGHTING CONTROL CENTER TO BE REMOVED

PER-B5 — STA. 198+89, ℄ I-77, LIGHT POLE ALM 41.25

PER-B6 — STA. 200+85, ℄ I-77, LIGHT POLE ALM 41.25

PER-B7 — STA. 203+14, ℄ I-77, LIGHT POLE ALM 41.25

PER-B8 — STA. 205+39, ℄ I-77, LIGHT POLE ALM 41.25

MATCH LINE STA. 207+50

PERSHING AVENUE

I.R. 77 NB

I.R. 77 SB

℄ CONST. I.R. 77

RAMP D1

RAMP D2

RAMP E1

CKT PER-B

CKT PER-C

Ex R/W

Ex LT R/W

Ex LT A

FOR LEGEND SEE SHEET P.1120.
FOR CIRCUIT DIAGRAM SEE SHEET P.1132.

SHEET P.1130 / TOTAL P.1269	PROJECT ID 105743	REVIEWER TAS 04/08/26	DESIGNER CX	AECOM	DESIGN AGENCY	LIGHTING PLAN STA. 195+00 TO STA. 207+50

HORIZONTAL SCALE IN FEET
0 50
25 100

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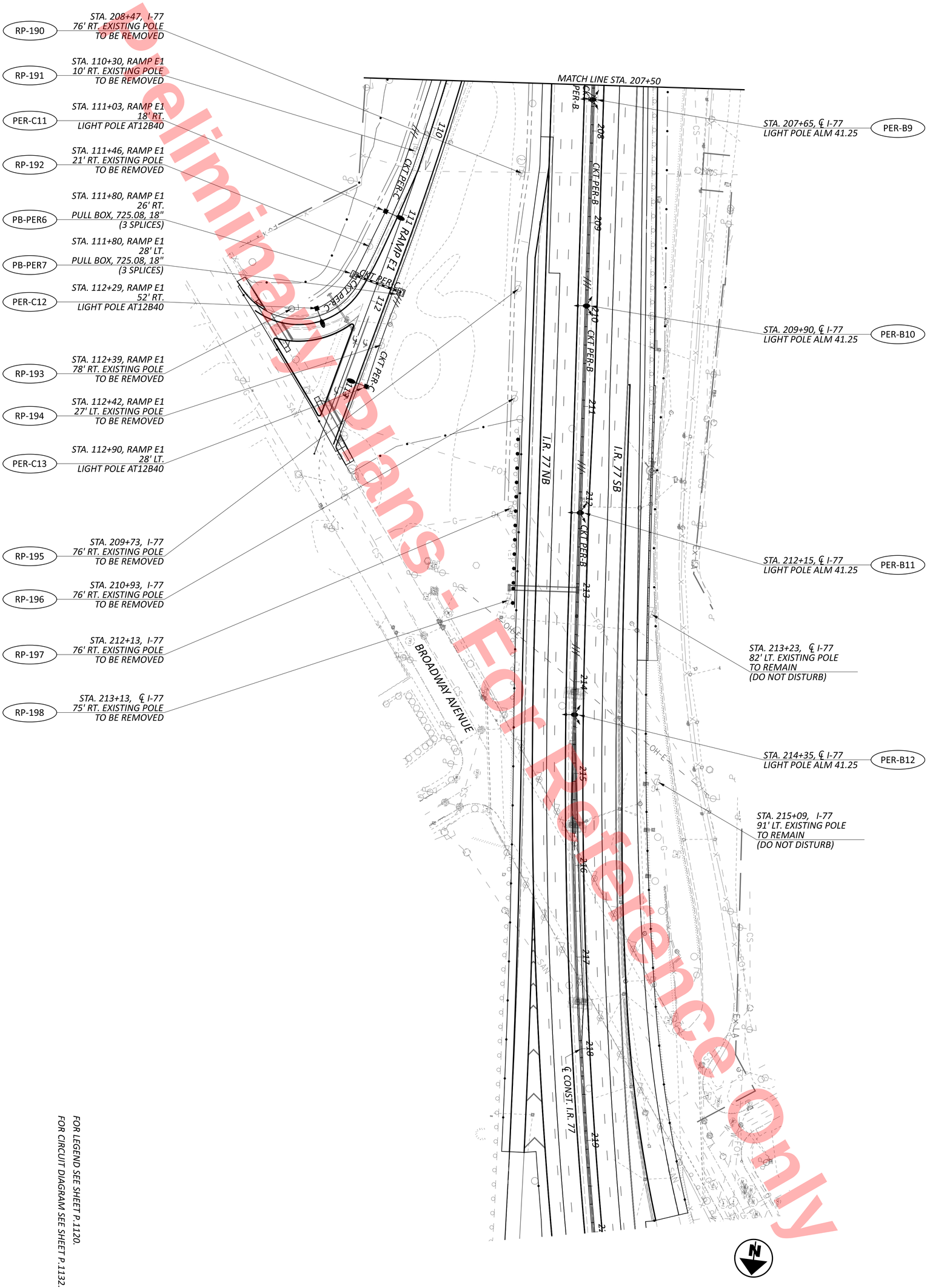
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Lighting\Sheets\105743_LP012.dgn



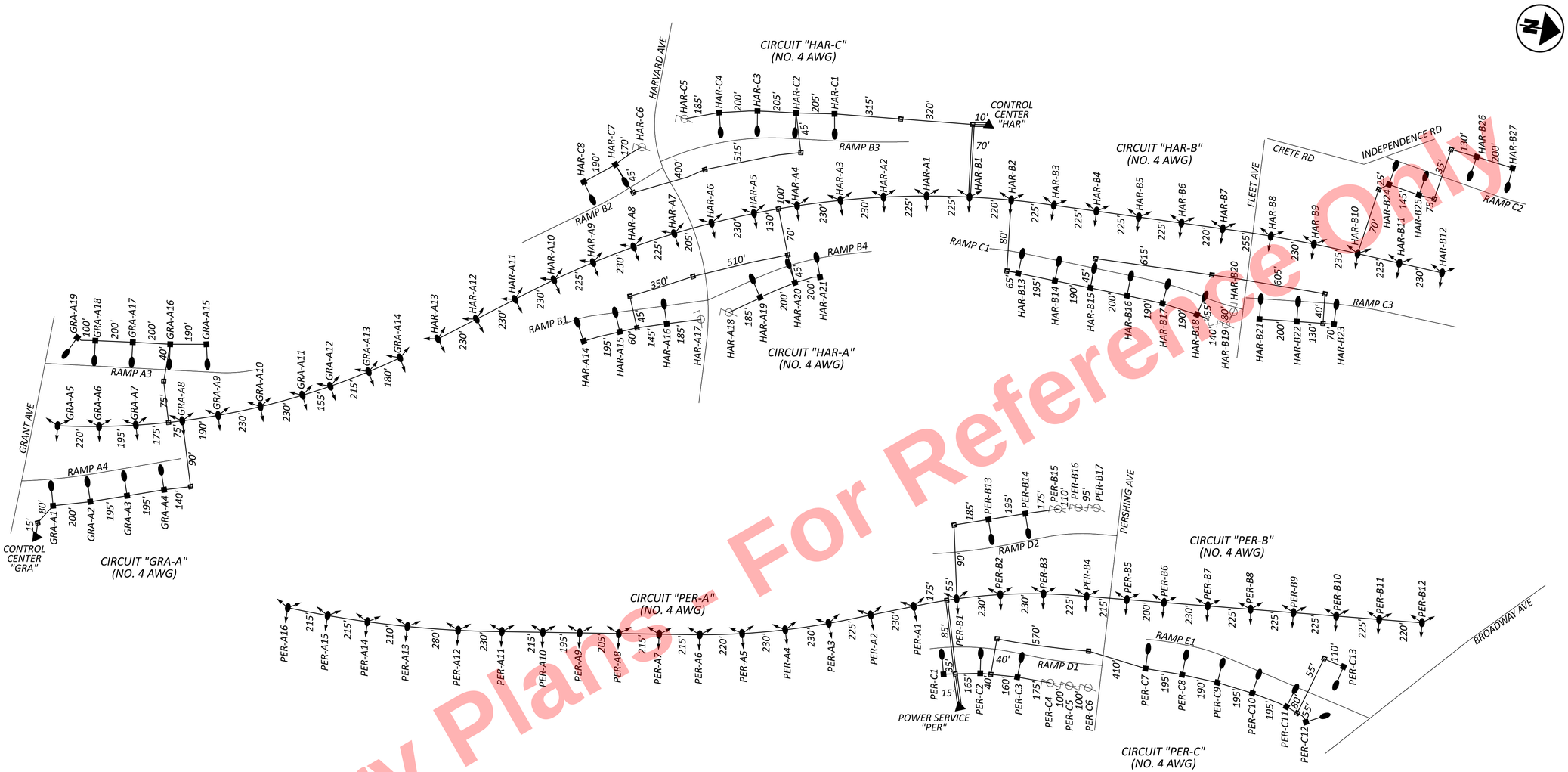
FOR LEGEND SEE SHEET P.1120.
FOR CIRCUIT DIAGRAM SEE SHEET P.1132.

Preliminary Plans - For Reference Only

DESIGN AGENCY: AECOM	DESIGNER: CX	REVIEWER: TAS 04/08/26	PROJECT ID: 105743
SHEET: P.1131	TOTAL: P.1269		

LIGHTING PLAN
STA. 207+50 TO STA. 220+00

HORIZONTAL SCALE IN FEET
0 25 50 100



Preliminary Plans - For Reference Only

LEGEND

- LOW MAST LIGHT POLE (41.25' SUPPORT HEIGHT) W/ 1-LED LUMINAIRE, TYPE V (SYMMETRICAL)
- 40' LIGHT POLE WITH LED LUMINAIRE
- POWER SERVICE/LCC SINGLE PHASE, 3-WIRE (2 CONDUCTORS, 480V, WITH GROUND)
- PULL BOX / JUNCTION BOX

POWER SERVICE DATA												
CONTROL CENTER	POWER SERVICE VOLTAGE AND CONFIGURATION	CONTROL CENTER TOTAL CONNECTED LOAD (KVA)	SERVICE ENTRANCE CONDUCTOR SIZE (AWG)	ENCLOSURE RATING (AMPS)	FEEDER CIRCUIT CONNECTED LOAD (AMPS)	FEEDER CIRCUIT FUSE SIZE (AMPS)	BRANCH CIRCUIT NO.	BRANCH CIRCUIT VOLTAGE (VOLTS) (L/L)	BRANCH CIRCUIT LOAD (AMPS)	BRANCH CIRCUIT BREAKER SIZE (AMPS)	BRANCH CIRCUIT CABLE SIZE (AWG)	MAINTAINING AGENCY
PS-GRA	3-WIRE 2-CONDUCTOR 480V	5.33	2	100	11.1	100	A	480	11.1	30	4	ODOT
PS-HAR	3-WIRE 2-CONDUCTOR 480V	14.54	2	100	30.3	100	A	480	13.32	30	4	ODOT
							B	480	14.58	30	4	
							C	480	2.4	15	4	
PS-PER	3-WIRE 2-CONDUCTOR 480V	13.88	2	100	28.92	100	A	480	13.44	30	4	ODOT
							B	480	11.58	30	4	
							C	480	3.9	15	4	

LIGHTING CIRCUIT DIAGRAM

CUY-77-11.41 - PART 1

DESIGN AGENCY: AECOM

DESIGNER: CX

REVIEWER: TAS 04/08/26

PROJECT ID: 105743

SHEET P.1132 | TOTAL P.1269

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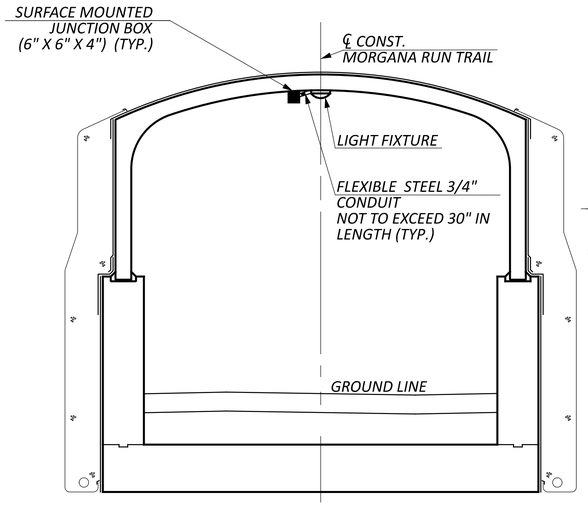
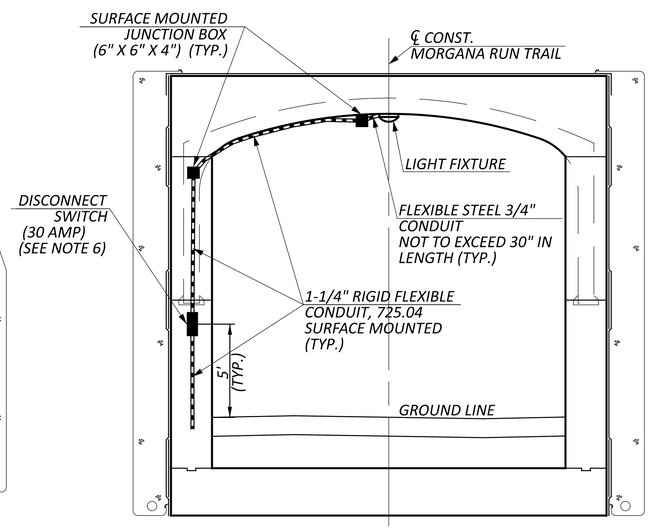
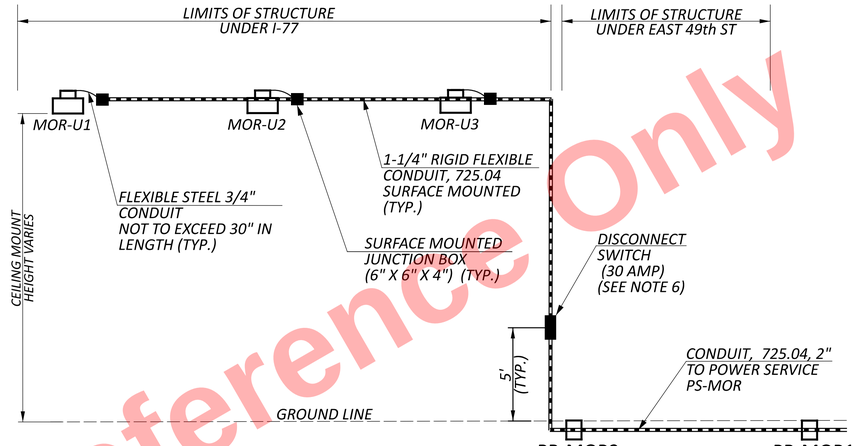


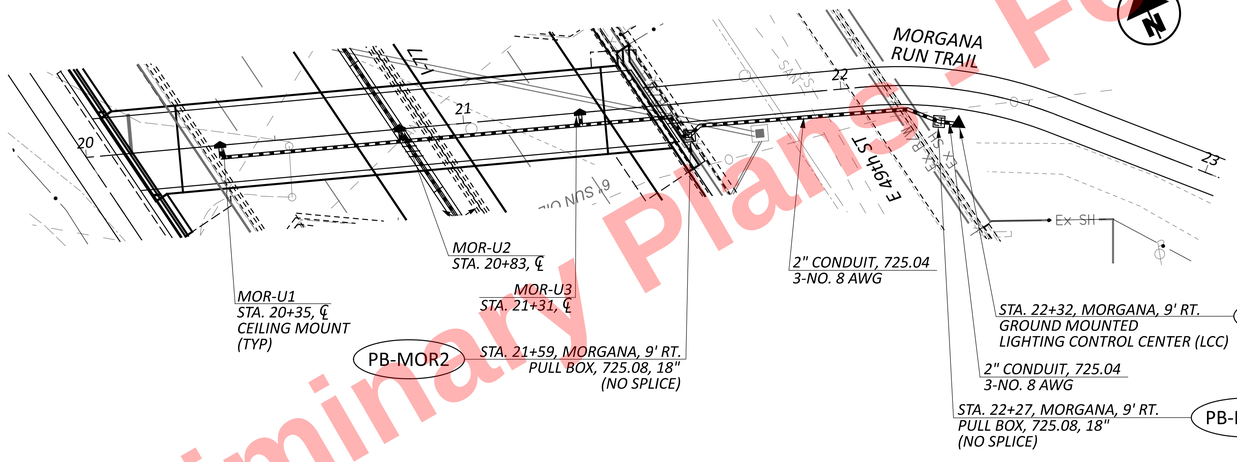
MORGANA RUN TRAIL
UNDERPASS ELEVATION VIEW
LOOKING WEST
(FOR PRECAST CULVERT)



MORGANA RUN TRAIL
UNDERPASS ELEVATION VIEW
LOOKING WEST
(FOR CAST-IN-PLACE CULVERT)



MORGANA RUN TRAIL
UNDERPASS ELEVATION VIEW
(NOT TO SCALE)



NOTES:

1) PROVIDE PVC JUNCTION BOX (6"X6"X4") WITH EACH UNDERPASS LIGHTING FIXTURE.

2) RUN THREE #8 AWG CABLES FROM JUNCTION BOX TO JUNCTION BOX IN 1-1/4" CONDUIT, 725.04.

3) RUN THREE #10 AWG CABLES FROM JUNCTION BOX TO UNDERPASS FIXTURE IN 3/4" FLEXIBLE STEEL CONDUIT, 725.04.

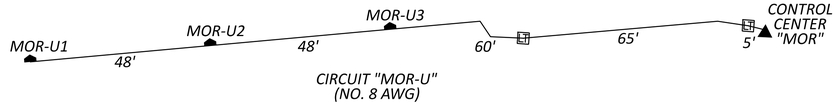
4) BOND LUMINAIRES AND DISCONNECT SWITCH TO STRUCTURE GROUNDING SYSTEM.

5) PROVIDE A VANDAL PROTECTION FOR THE LUMINAIRES.

6) DISCONNECT SWITCH WILL BE INSTALLED ON THE EXTERIOR FACE OF THE CAST-IN-PLACE CULVERT END. MOUNT AT 5' HIGH.

LEGEND

- CEILING WALL MOUNTED UNDERPASS LED LUMINAIRE
- POWER SERVICE/LCC SINGLE PHASE, 3-WIRE (2 CONDUCTORS, 120/240V, WITH GROUND)
- CONDUIT, 725.04 WITH 3 WIRE NO. 8 AWG 600 VOLT CABLES, 2 CONDUCTORS, 120 VOLT, WITH GROUND (TYPICAL, UNLESS NOTED)
- PULL BOX
- SURFACE MOUNTED JUNCTION BOX



CIRCUIT "MOR-U"
(NO. 8 AWG)

POWER SERVICE DATA

CONTROL CENTER	POWER SERVICE VOLTAGE AND CONFIGURATION	CONTROL CENTER TOTAL CONNECTED LOAD (KVA)	SERVICE ENTRANCE CONDUCTOR SIZE (AWG)	ENCLOSURE RATING (AMPS)	FEEDER CIRCUIT CONNECTED LOAD (AMPS)	FEEDER CIRCUIT FUSE SIZE (AMPS)	BRANCH CIRCUIT NO.	BRANCH CIRCUIT VOLTAGE (VOLTS) (L/N)	BRANCH CIRCUIT LOAD (AMPS)	BRANCH CIRCUIT BREAKER SIZE (AMPS)	BRANCH CIRCUIT CABLE SIZE (AWG)	MAINTAINING AGENCY
PS-MOR	3-WIRE 2-CONDUCTOR 120V	0.36	2	30	3.0	30	U	120	3.0	15	8	CITY OF CLEVELAND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

UNDERPASS LIGHTING
MORGANA RUN TRAIL

DESIGN AGENCY
AECOM

DESIGNER
CX

REVIEWER
TAS 04/08/26

PROJECT ID
105743

SHEET P.1133 TOTAL P.1269

CUY-77-11.41 - PART 1

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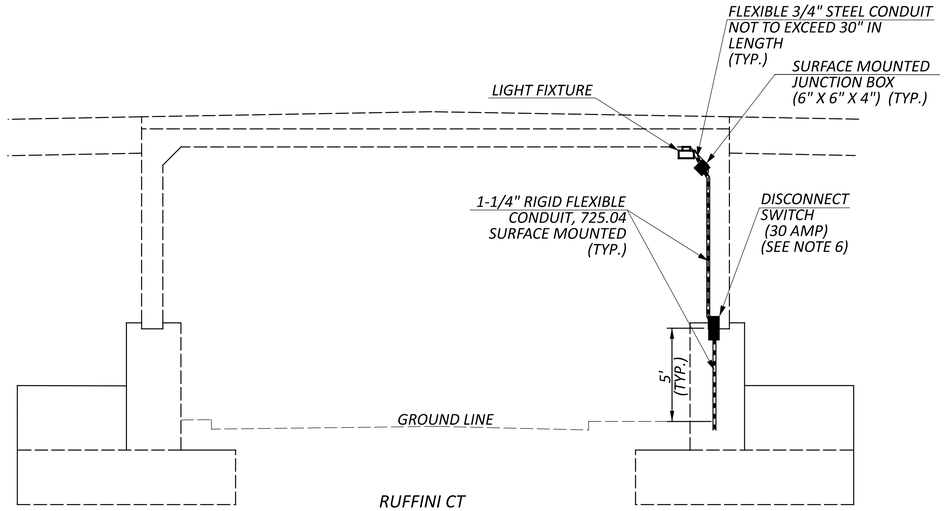
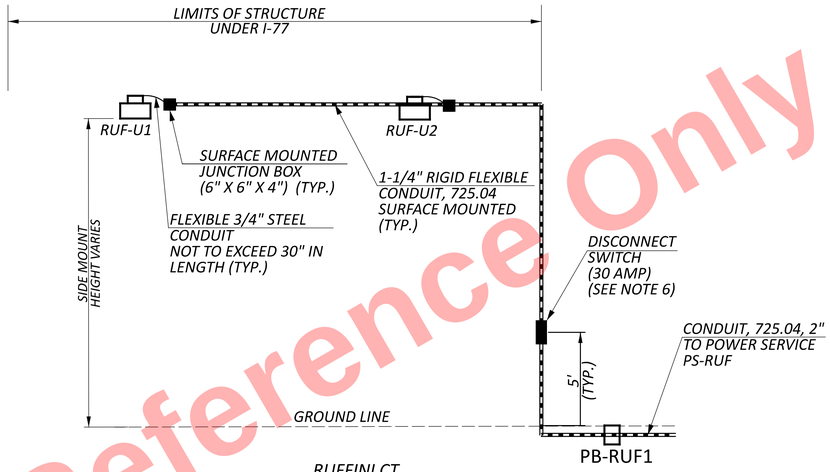
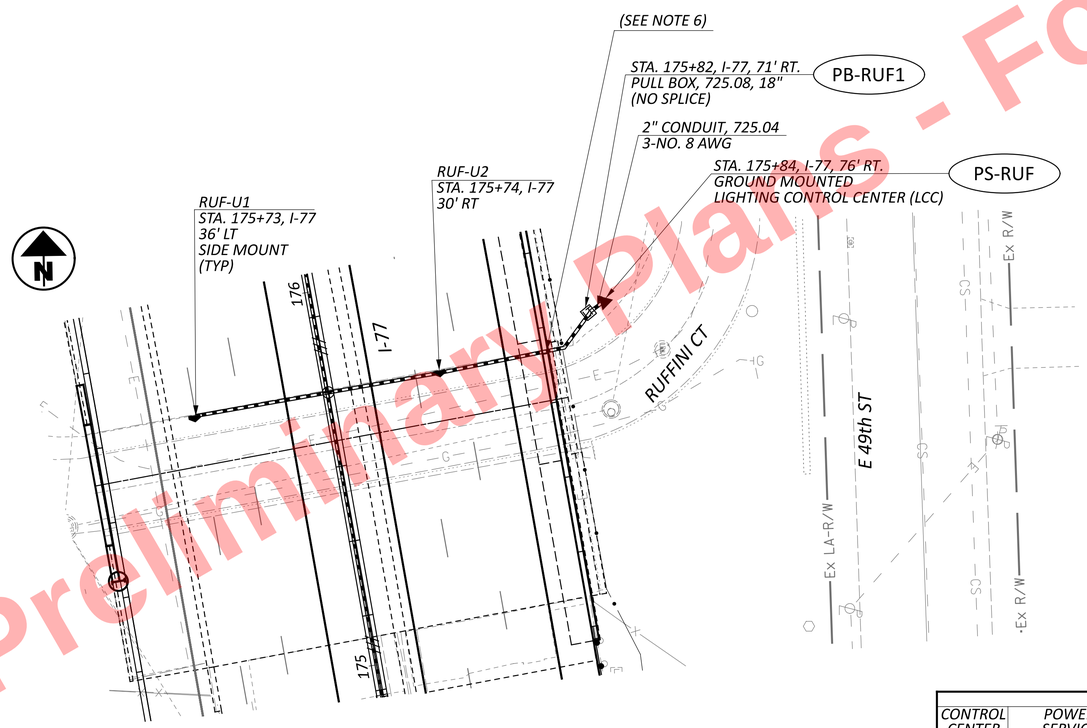
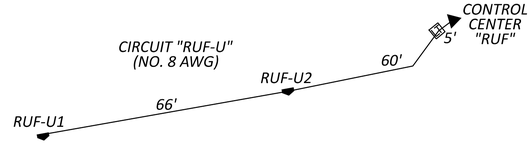


RUFFINI CT
UNDERPASS ELEVATION VIEW
LOOKING WEST



RUFFINI CT
UNDERPASS ELEVATION VIEW
LOOKING NORTH
(NOT TO SCALE)





LEGEND

- CEILING WALL MOUNTED UNDERPASS LED LUMINAIRE
- POWER SERVICE/LCC SINGLE PHASE, 3-WIRE (2 CONDUCTORS, 120/240V, WITH GROUND)
- CONDUIT, 725.04 WITH 3 WIRE NO. 8 AWG 600 VOLT CABLES, 2 CONDUCTORS, 120 VOLT, WITH GROUND (TYPICAL, UNLESS NOTED)
- PULL BOX
- SURFACE MOUNTED JUNCTION BOX

NOTES:

1) PROVIDE PVC JUNCTION BOX (6"X6"X4") WITH EACH UNDERPASS LIGHTING FIXTURE.

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3) RUN THREE #10 AWG CABLES FROM JUNCTION BOX TO UNDERPASS FIXTURE IN 3/4" FLEXIBLE STEEL CONDUIT, 725.04.

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POWER SERVICE DATA

CONTROL CENTER	POWER SERVICE VOLTAGE AND CONFIGURATION	CONTROL CENTER TOTAL CONNECTED LOAD (KVA)	SERVICE ENTRANCE CONDUCTOR SIZE (AWG)	ENCLOSURE RATING (AMPS)	FEEDER CIRCUIT CONNECTED LOAD (AMPS)	FEEDER CIRCUIT FUSE SIZE (AMPS)	BRANCH CIRCUIT NO.	BRANCH CIRCUIT VOLTAGE (VOLTS) (L/N)	BRANCH CIRCUIT LOAD (AMPS)	BRANCH CIRCUIT BREAKER SIZE (AMPS)	BRANCH CIRCUIT CABLE SIZE (AWG)	MAINTAINING AGENCY
PS-RUF	3-WIRE 2-CONDUCTOR 120V	0.14	2	30	1.0	30	U	120	1.2	15	8	CITY OF CLEVELAND

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

UNDERPASS LIGHTING
RUFFINI CT

DESIGN AGENCY
AECOM

DESIGNER CX
REVIEWER TAS 04/08/26
PROJECT ID 105743
SHEET P.1134 TOTAL P.1269

CUY-77-11.41 - PART 1

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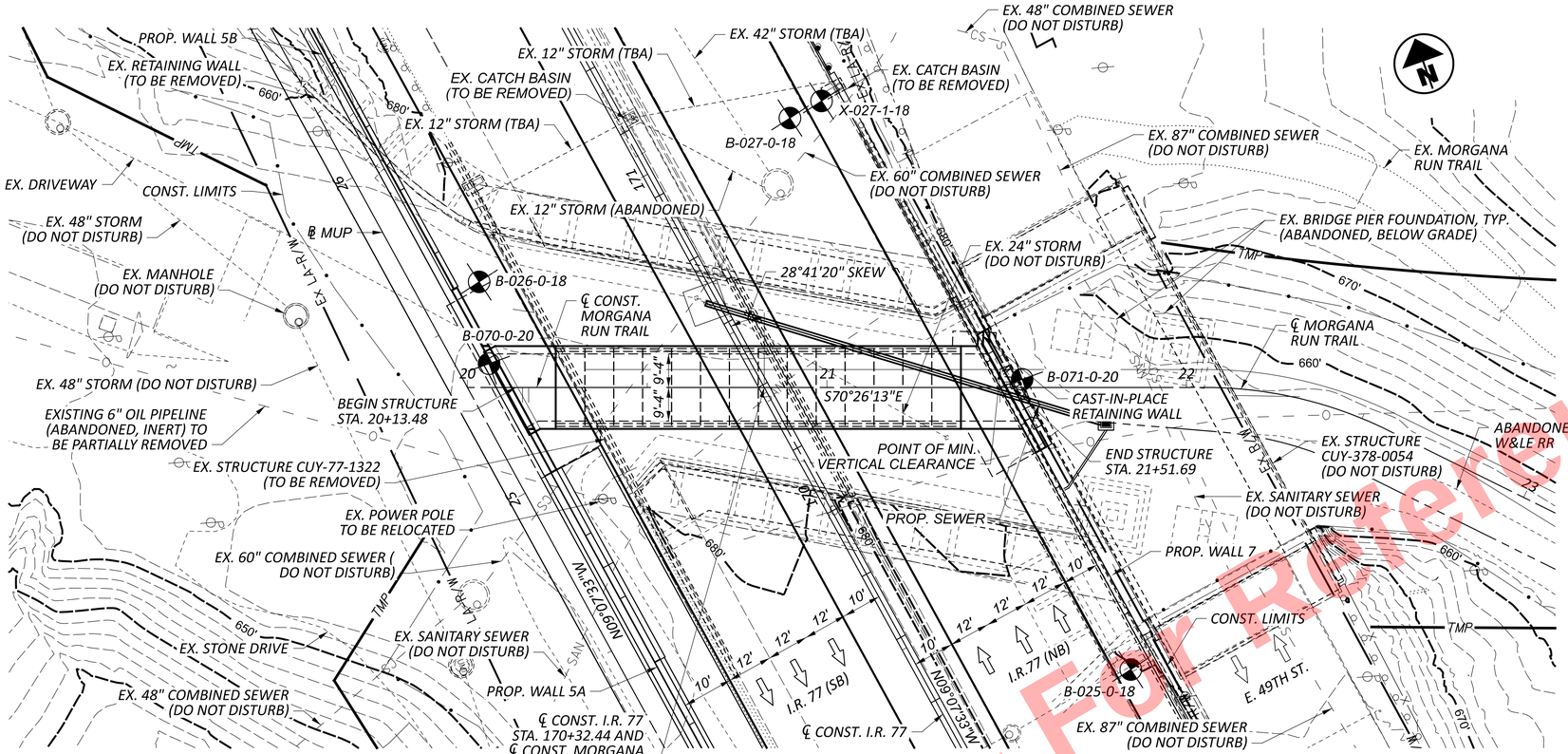
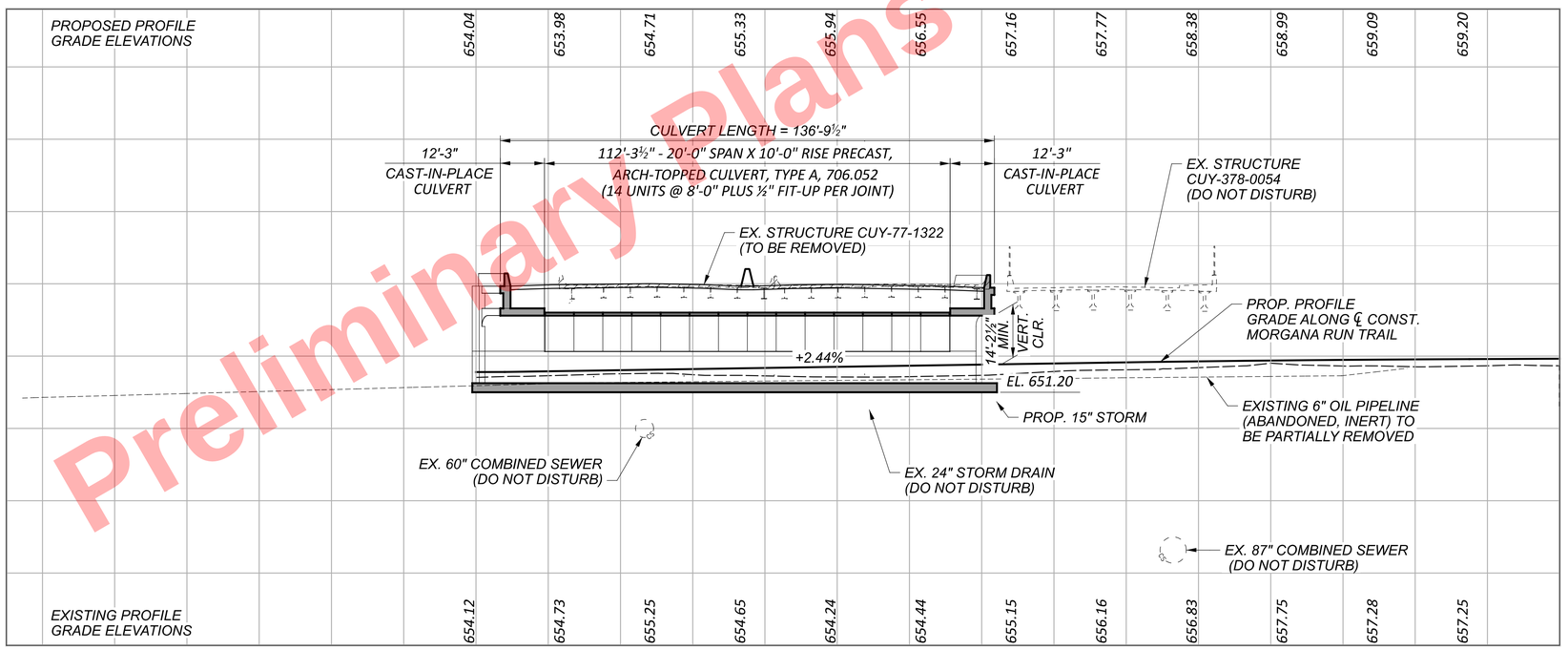


PLAN



PROFILE ALONG ℄ CONST. MORGANA RUN TRAIL

FOR BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET 5 OF 497.

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

MINIMUM VERTICAL CLEARANCE
10'-0" REQUIRED
14'-2½" PROVIDED

DESIGN TRAFFIC:
2043 ADT = 126,600 2043 ADTT = 7,560

DIRECTIONAL DISTRIBUTION = 52%

LEGEND

BORING OR PAVEMENT CORE LOCATION

EXISTING STRUCTURE

TYPE: SIMPLE SPAN, NON-COMPOSITE STEEL BEAMS WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE

SPANS: SINGLE SPAN VARIES, 75'-7¾" +/- WEST FASCIA BEAM, 66'-6" +/- INTERIOR BEAMS, 70'-4⅞" +/- EAST FASCIA BEAM, 34'-0" +/- EAST FASCIA WIDENING BEAM (C/C BRG)

ROADWAY: 49'-0" +/- NB & SB TOE/TOE BARRIER

LOADING: HS20-44 & ALTERNATE MILITARY LOADING

SKEW: 38°-55' +/- LF

WEARING SURFACE: 1" +/- MONOLITHIC CONCRETE

APPROACH SLABS: 15' LONG (AS-1-67)

ALIGNMENT: TANGENT

CROWN: 3/16"/FT +/-

STRUCTURE FILE NUMBER: 1806572

DATE BUILT: 1950, REHABILITATED 1975

DISPOSITION: TO BE REMOVED

PROPOSED STRUCTURE

TYPE: 3-SIDED ARCH-TOP PRECAST CONCRETE UNITS ON CONCRETE PEDESTALS AND SPREAD MAT FOOTING WITH 3-SIDED CAST-IN-PLACE REINFORCED CONCRETE FRAME END SECTIONS

SPANS: 21.28' CLEAR SPAN

ROADWAY: 56'-0" NB & SB TOE/TOE PARAPET

LOADING: HL93 AND 60 PSF FUTURE WEARING SURFACE

SKEW: 28°-41'-20" LF

WEARING SURFACE: ASPHALT

APPROACH SLABS: NONE

ALIGNMENT: TANGENT

CROWN: 0.0156 FT/FT

DECK AREA: NONE

COORDINATES: LATITUDE N41°-27'-48.38"
LONGITUDE W81°-39'-26.92"

SITE PLAN
BRIDGE NO. CUY-77-1322 OVER ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN	1806572
DESIGN AGENCY	TRC
DESIGNER	NMC
CHECKER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	1
TOTAL	25
SHEET	P.1135
TOTAL	P.1269

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1
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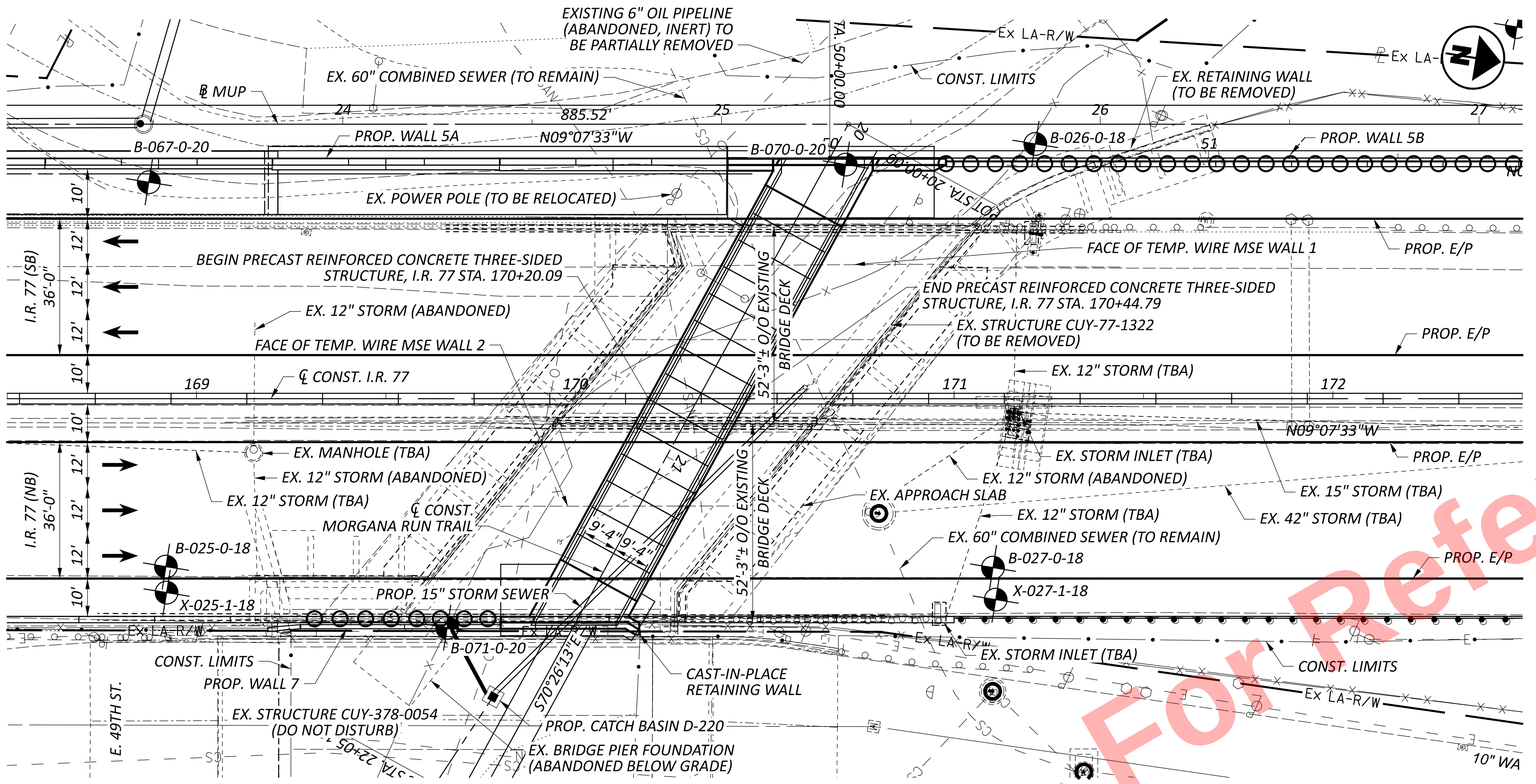
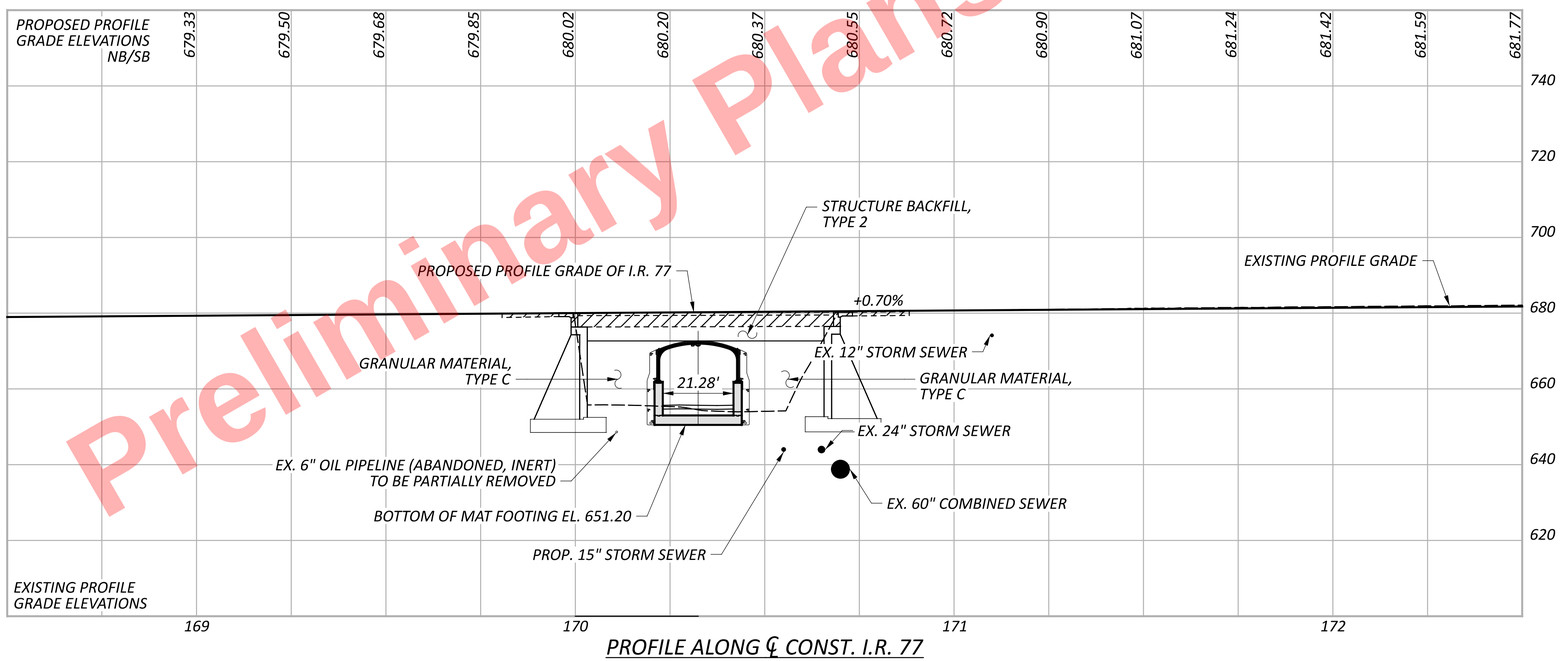


PLAN



PROFILE ALONG ℄ CONST. I.R. 77

FOR BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET 5 OF 497.

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

MINIMUM VERTICAL CLEARANCE
10'-0" REQUIRED
14'-2" PROVIDED

DESIGN TRAFFIC:
2025 ADT = 118,000 20XX ADTT = 7,080
2043 ADT = 126,600 2043 ADTT = 7,560
DIRECTIONAL DISTRIBUTION = 52%

LEGEND

BORING OR PAVEMENT CORE LOCATION

EXISTING STRUCTURE

TYPE: SIMPLE SPAN, NON-COMPOSITE STEEL BEAMS WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE.

SPANS: SINGLE SPAN VARIES, 75'-7¾"± WEST FASCIA BEAM, 66'-6"± INTERIOR BEAMS, 70'-47/8"± EAST FASCIA BEAM, 34'-0"± EAST FASCIA WIDENING BEAM (C/C BRG.)

ROADWAY: 49'-0"± NB & SB TOE/TOE BARRIER

LOADING: HS20-44 & ALTERNATIVE MILITARY LOADING

SKEW: 38°-55'-00"± LF

WEARING SURFACE: 1"± MONOLITHIC CONCRETE

APPROACH SLABS: 15' LONG (AS-1-67)

ALIGNMENT: TANGENT

CROWN: 3/16" / FT±

STRUCTURE FILE NUMBER: 1806572

DATE BUILT: 1950, REHABILITATED 1975

DISPOSITION: TO BE REMOVED

PROPOSED STRUCTURE

TYPE: 3-SIDED ARCH-TOP PRECAST CONCRETE UNITS ON CONCRETE PEDESTALS AND SPREAD MAT FOOTING WITH 3-SIDED CAST-IN-PLACE REINFORCED CONCRETE FRAME END SECTIONS

SPANS: 21.28' CLEAR SPAN

ROADWAY: 56'-0" NB & SB TOE/TOE PARAPET

LOADING: HL93 AND 60 PSF FUTURE WEARING SURFACE

SKEW: 28°-41'-20" LF

WEARING SURFACE: ASPHALT

APPROACH SLABS: NONE

ALIGNMENT: TANGENT

CROWN: 0.0156 FT/FT

DECK AREA: NONE

COORDINATES: LATITUDE N41°-27'-48.38"
LONGITUDE W81°-39'-26.92"

SITE PLAN
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN	1806572
DESIGN AGENCY	TRC
DESIGNER	NMC
CHECKER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	2
TOTAL	25
SHEET	P.1136
TOTAL	P.1269

CUY-77-11.41 - PART 1

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Preliminary Plans - For Reference Only

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD DRAWINGS:

SBR-1-20 DATED (REVISED) 7-19-24
VPF-1-24 DATED (REVISED) 1-17-25

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:

SS867 DATED 4-15-22
SS878 DATED 1-21-22

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 10TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN DATA

CONCRETE CLASS QC2:
COMPRESSIVE STRENGTH 4.5 KSI (BARRIER)

CONCRETE CLASS QC1:
COMPRESSIVE STRENGTH 4.0 KSI (CULVERT, HEADWALLS, WINGWALLS, SUBSTRUCTURE)

EPOZY COATED STEEL REINFORCEMENT - MINIMUM YIELD STRENGTH 60 KSI

OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN LOADING

VEHICULAR DESIGN LOAD: HL-93
FUTURE WEARING SURFACE (FWS): 0.060 KSF
LIVE LOAD SURCHARGE: 2 FEET OF 125 PCF OVERBURDEN

FOUNDATION BEARING RESISTANCE

THE FOUNDATION, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LOAD PRESSURE OF 3.87 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 4.84 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 20.10 KIPS PER SQUARE FOOT.

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04. BASE CONTRACT BID PRICES UPON RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

DESCRIPTION: THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE DEPARTMENT WILL NOT PERMIT THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS. DO NOT BEGIN WORK UNTIL THE ENGINEER ACCEPTS THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE EXISTING CONCRETE REINFORCEMENT IN PORTIONS OF THE STRUCTURE REQUIRED TO SUPPORT TRAFFIC DURING CONSTRUCTIONS PHASES. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

PROTECTION OF STEEL SUPPORT SYSTEMS: BEFORE DECK SLAB CUTTING BEGINS, DRAW THE OUTLINE OF PRIMARY STEEL MEMBERS IN CONTACT WITH THE BOTTOM OF THE DECK ON THE SURFACE OF DECK. DRILL SMALL DIAMETER PILOT HOLES 2 INCHES OUTSIDE THESE LINES TO CONFIRM THE LOCATION OF FLANGE EDGES. DECK CUTS OVER OR WITHIN 2 INCHES OF FLANGE EDGES SHALL NOT EXTEND LOWER THAN THE BOTTOM LAYER OF CONCRETE REINFORCEMENT IN THE DECK SLAB. CUTS MADE OUTSIDE 2 INCHES OF FLANGE EDGES MAY EXTEND THE FULL DEPTH OF THE DECK. PERFORM WORK CAREFULLY DURING CUTTING OF THE DECK SLAB TO AVOID DAMAGING STEEL MEMBERS THAT ARE TO TO REMAIN IN THE CURRENT CONSTRUCTION PHASE. REPAIR STEEL MEMBERS DAMAGED BY THE DECK SLAB CUTTING OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE ENGINEER. OBTAIN THE ENGINEER'S APPROVAL BEFORE PERFORMING REPAIR

SUBSTRUCTURE CONCRETE REMOVAL: REMOVE CONCRETE BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. THE DEPARTMENT WILL NOT PERMIT HYDRAULIC HOERAM TYPE HAMMERS. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED IN THE CURRENT CONSTRUCTION PHASE. OUTSIDE THE 18-IN LIMIT, THE CONTRACTOR MAY USE HAMMERS NOT EXCEEDING 90 POUNDS UPON THE APPROVAL OF THE ENGINEER.

THE EXISTING IR-77 BRIDGE ADJOINS THE EXISTING EAST 49TH STREET BRIDGE, (CUY-378-0054) AT THE ABUTMENTS. THESE PLANS MAY NOT ACCURATELY DEPICT THE INTERFACE BETWEEN THE TWO EXISTING STRUCTURES, PARTICULARLY WITH REGARDS TO EXISTING CONCRETE INTERFACING WITH EXISTING STONE. TO ENSURE NO DAMAGE IS CAUSED TO THE EXISTING EAST 49TH STREET BRIDGE, THE CONTRACTOR AND THE ENGINEER SHALL WORK TOGETHER TO MARK PROPOSED REMOVAL LIMITS ON THE EXISTING STRUCTURE BEFORE PERFORMING ANY REMOVAL OF EXISTING MATERIALS WITHING THREE (3) FEET OF THE L/A AND R/W LINE. EXERCISE CARE IN PERFORMING REMOVALS TO NOT DAMAGE ANY PORTIONS OF THE EXISTING EAST 49TH STREET BRIDGE. REPAIR ANY BRIDGE COMPONENTS DAMAGED BY THE REMOVAL OPERATIONS AT NO COST TO THE PROJECT.

MEASUREMENT & PAYMENT: THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN.

ITEM 511 - CLASS QC2 CONCRETE, MISC.: BARRIER ON HEADWALL/WINGWALL WITH QC/QA

THIS ITEM SHALL IINCLUDE REINFORCING STEEL, CONCRETE, FORMWORK, AND ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO CONSTRUCT THE SBR-1-20 BARRIER ON THE HEADWALL AND WINGWALLS AT THE WEST END PORTAL OF THE PROPOSED STRUCTURE.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

ITEM 516 - NYLON REINFORCED NEOPRENE SHEETING, AS PER PLAN

THE CONTRACTORS SHALL FURNISH AND INSTALL 3 FOOT WIDE NEOPRENE SHEETS ON THE BACK SIDE OF JOINTS AS SPECIFIED IN THE PLANS. THE SHEETING SHALL BE 3/32 INCH THICK GENERAL PURPOSE, HEAVY-DUTY NEOPRENE WITH NYLON FABRIC REINFORCEMENT PER 705.13. THE CONCRETE FASTENERS SHALL BE 1 1/4 INCH BY #10 GAGE (LENGTH X SHANK DIAMETER) GALVANIZED BUTTON HEAD SPIKES THROUGH A 1 INCH OUTSIDE DIAMETER, #10 GAGE GALVANIZED WASHER. USE OF OTHER SIMILAR GALVANIZED DEVICES, WHICH WILL NOT DAMAGE EITHER THE NEOPRENE OR THE CONCRETE, WILL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

CENTER THE NEOPRENE STRIPS ON THE VERTICAL JOINTS AND SECURE WITH A SINGLE VERTICAL LINE OF FASTENERS, STARTING AT APPROXIMATELY 6 INCHES FROM THE VERTICAL EDGE OF THE STRIP AGAINST THE PROPOSED CONCRETE. MAXIMUM FASTENER SPACING IS 9 INCHES. INSTALL TWO ADDITIONAL FASTENERS AT 6 INCHES, CENTER TO CENTER, ACROSS THE TOP OF EACH NEOPRENE STRIP ON THE SAME SIDE OF THE VERTICAL JOINT AS THE SINGLE VERTICAL ROW OF FASTENERS IS LOCATED.

WHERE SPECIFIED IN THE PLANS, APPLY TYPE A WATERPROOFING TO STONE AND CONCRETE SURFACES IN ACCORDANCE WITH CMS 512.08 PRIOR TO INSTALLATION OF NEOPRENE SHEETING AT VERTICAL JOINTS. ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL THE WATERPROOFING AND NEOPRENE SHEETS WILL BE INCLUDED FOR PAYMENT AT THE CONTRACT UNIT PRICE FOR ITEM 516, NYLON REINFORCED NEOPRENE SHEETING, AS PER PLAN.

CONSTRUCTION SEQUENCE

PRE-PHASE:
1. MAINTAIN TRAFFIC ON EXISTING STRUCTURE.
2. CONSTRUCT SLAB FOOTING, PEDESTAL WALLS, PRECAST CULVERT UNITS, AND CAST-IN-PLACE END PORTALS.
3. CONSTRUCT EAST WINGWALLS UP TO THE TOP OF END PORTAL.
4. CONSTRUCT WEST HEADWALL AND WINGWALLS.

PHASE 1A, 1B AND 1C:
1. MAINTAIN TRAFFIC ON EXISTING STRUCTURES ARE SHOWN.
2. REMOVE WESTERN PORTION OF EXISTING SOUTHBOUND STRUCTURE AS SHOWN.
3. INSTALL COMPACTED BACKFILL AND TEMPORARY WIRE WALL 1 ABOVE CULVERT STRUCTURE.
4. CONSTRUCT PROPOSED ROADWAY AS SHOWN.

PHASE 2:
1. MAINTAIN TRAFFIC ON EXISTING STRUCTURES ARE SHOWN.
2. REMOVE CENTER PORTION OF EXISTING STRUCTURES AS SHOWN.
3. INSTALL COMPACTED BACKFILL AND TEMPORARY WIRE WALL 2 ABOVE CULVERT STRUCTURE.
4. CONSTRUCT PROPOSED ROADWAY AS SHOWN.

PHASE 3A, 3B AND 3C:
1. MAINTAIN TRAFFIC ON EXISTING STRUCTURES ARE SHOWN.
2. REMOVE EASTERN PORTION OF EXISTING STRUCTURES AS SHOWN.
3. CONSTRUCT REMAINING PORTIONS OF EAST WINGWALLS AND HEADWALL.
4. INSTALL COMPACTED BACKFILL ABOVE CULVERT STRUCTURE.
5. CONSTRUCT PROPOSED ROADWAY AS SHOWN.

ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS
B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS
℄ - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION
DIA. - DIAMETER
DWG. - DRAWING
E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING
F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD
I - INTERSTATE ROUTE
JT. - JOINT
LT. - LEFT
MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC
NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE
O/O - OUT TO OUT
P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER
R.A. - REAR ABUTMENT
RT. - RIGHT
SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT
TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL
VERT. - VERTICAL

ITEM 607 - VANDAL PROTECTION FENCE, 6" STRAIGHT, COATED FABRIC, AS PER PLAN

THIS ITEM SHALL BE AS PER THE DETAILS IN THE PLAN, THE APPLICABLE PORTION OF STANDARD DRAWING VPF-1-24, AND THE MANUFACTURER'S RECOMMENDATIONS.

THE ANCHORS ON THE TOP OF THE PROPOSED CONCRETE BRIDGE RAILING SHALL BE CAST IN PLACE WITH A 6" OR 7" MINIMUM EMBEDMENT LENGTH, AS SHOWN ON THE STANDARD DRAWING FOR THE SPECIFIED BASE PLATE TYPE.

AT LOCATIONS WHERE THE FENCE SPANS ACROSS AN EXPANSION JOINT IN THE BRIDGE RAILING AT AN INTEGRAL OR SEMI-INTEGRAL ABUTMENT, DO NOT INSTALL LINE RAILS AND EXPANSION JOINT SLEEVES; HOWEVER, THE FABRIC SHALL REMAIN CONTINUOUS ACROSS THE EXPANSION JOINT.

THE COLOR OF THE FENCE FABRIC, RAILS, POSTS, PLATES, TIE WIRES, AND ADDITIONAL VISUAL HARDWARE AND CAULK SHALL BE BLACK.

PAYMENT FOR THE ABOVE SHALL BE AT THE UNIT PRICE BID PER FOOT FOR ITEM 607 - VANDAL PROTECTION FENCE 6' STRAIGHT, COATED FABRIC, AS PER PLAN WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

Preliminary Plans - For Reference Only

GENERAL NOTES
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN 1806572
DESIGN AGENCY TRC
DESIGNER NMC | CHECKER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 3 | TOTAL 25
SHEET P.1137 | TOTAL P.1269

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ESTIMATED QUANTITIES (CUY-77-1322)

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	3
202	22900	260	SY	APPROACH SLAB REMOVED	
203	35120	65	CY	GRANULAR MATERIAL, TYPE C	
503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
503	21100	1475	CY	UNCLASSIFIED EXCAVATION	
509	10000	163294	LB	EPOXY COATED STEEL REINFORCEMENT	
511	46013	73	CY	CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN	22, 25
511	46512	387	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING	
511	46612	21	CY	CLASS QC1 CONCRETE WITH QC/QA, HEADWALL	
511	47012	353	CY	CLASS QC1 CONCRETE WITH QC/QA, CULVERT	
511	53012	10	CY	CLASS QC2 CONCRETE, MISC.: BARRIER ON HEADWALL/WINGWALL, WITH QC/QA	3
512	10101	922	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	3
512	33000	20	SY	TYPE 2 WATERPROOFING	
516	13600	198	SF	1" PREFORMED EXPANSION JOINT FILLER	
516	13900	111	SF	2" PREFORMED EXPANSION JOINT FILLER	
516	25001	78	SF	NYLON REINFORCED NEOPRENE SHEETING, AS PER PLAN	3, 23
518	20000	100	SY	PREFABRICATED GEOCOMPOSITE DRAIN	
518	21200	165	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
518	40000	356	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
607	39900	58	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC, AS PER PLAN	
611	71000	112	FT	CONDUIT, TYPE A, PRECAST REINFORCED CONCRETE ARCH SECTIONS (20'-0" SPAN x 10'-0" RISE)	
867	00100	LS		TEMPORARY WIRE FACED MECHANICALLY STABILIZED EARTH WALL	

Preliminary Plans - For Reference Only

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ESTIMATED QUANTITIES
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN 1806572

DESIGN AGENCY TRC

DESIGNER	CHECKER
NMC	CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET	TOTAL
4	25

SHEET	TOTAL
P.1138	P.1269

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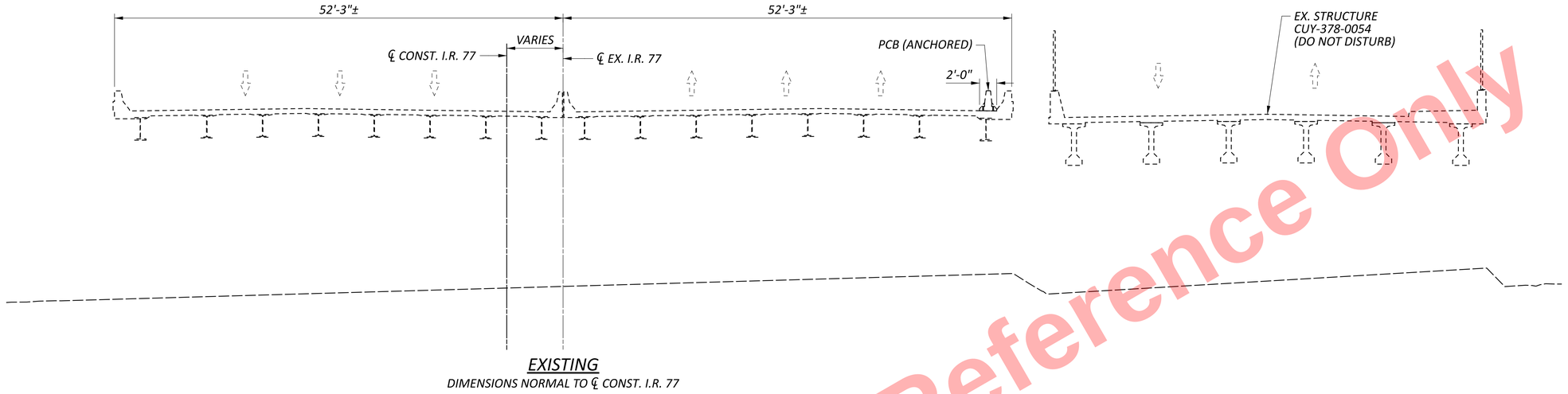
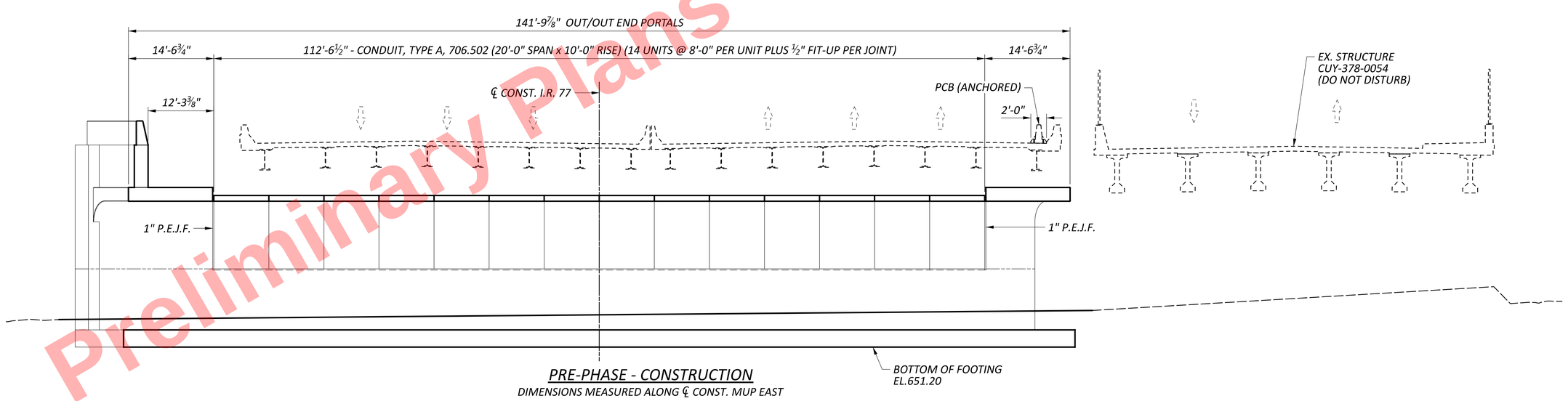


EXISTING

DIMENSIONS NORMAL TO ℄ CONST. I.R. 77



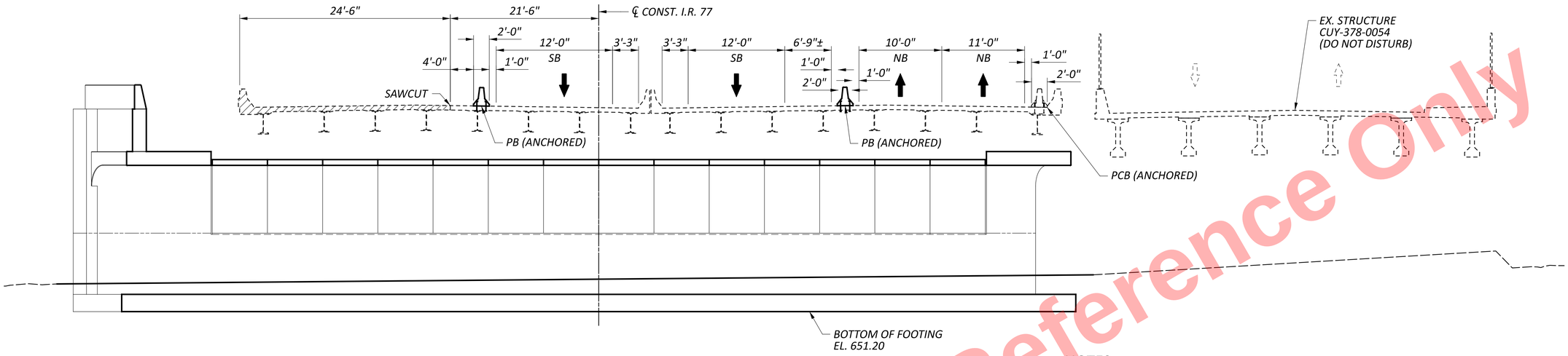
PRE-PHASE - CONSTRUCTION

DIMENSIONS MEASURED ALONG ℄ CONST. MUP EAST

Preliminary Plans - For Reference Only

PHASED CONSTRUCTION DETAILS
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN	1806572
DESIGN AGENCY	TRC
DESIGNER	NMC
CHECKER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	5
TOTAL	25
SHEET	P.1139
TOTAL	P.1269



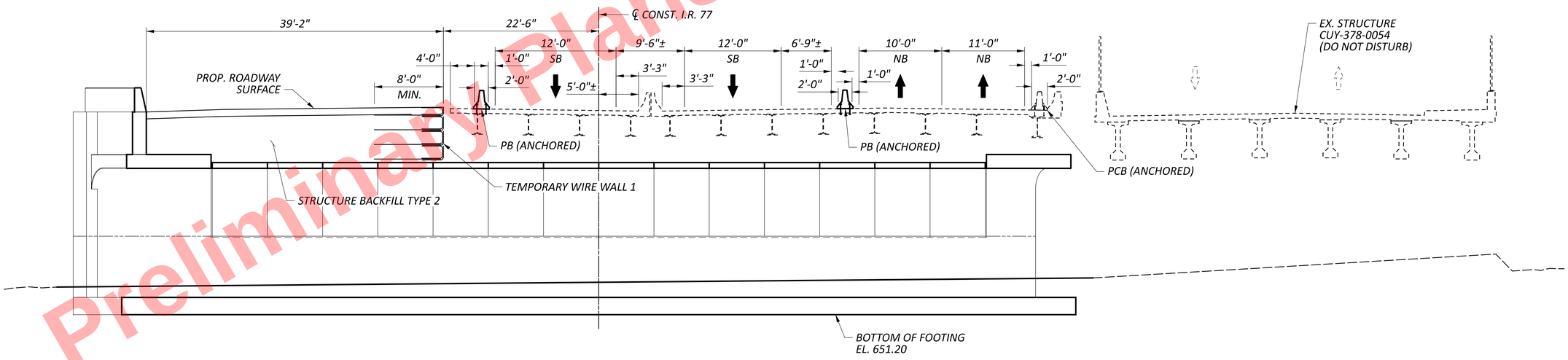
PHASE 1A, 1B, & 1C

DIMENSIONS NORMAL TO ℄ CONST. I.R. 77

NOTES:

1. GRANULAR MATERIAL, TYPE C, COMPACTED PER CMS 203, SHALL BE PLACED UP TO THE TOP OF THE BURIED FRAME BETWEEN THE PROPOSED STRUCTURE AND THE WALL ABUTMENTS OF THE EXISTING BRIDGE OR THE LIMITS OF THE PROPOSED WINGWALLS.

2. STRUCTURE BACKFILL, TYPE 2 SHALL BE PLACED AND COMPACTED ABOVE THE TYPE C GRANULAR MATERIAL BEHIND THE TEMPORARY MSE WALLS AND BETWEEN THE LIMITS OF THE EXISTING BRIDGE ABUTMENTS OR THE PROPOSED WINGWALLS UPTO THE ROADWAY SUBGRADE. ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED FOR THIS BACKFILL PLACEMENT WILL BE CONSIDERED INCIDENTAL TO ITEM 611 CONDUIT, TYPE A, PRECAST REINFORCED CONCRETE ARCH SECTIONS (20'-0" SPAN X 10'-" RISE).



PHASE 1A, 1B, & 1C

DIMENSIONS NORMAL TO ℄ CONST. I.R. 77

LEGEND

REMOVAL LIMITS

PHASED CONSTRUCTION DETAILS
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN	1806572
DESIGN AGENCY	TRC
DESIGNER	NMC
CHECKER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	6
TOTAL	25
SHEET	P.1140
TOTAL	P.1269

CUY-77-11.41 - PART 1

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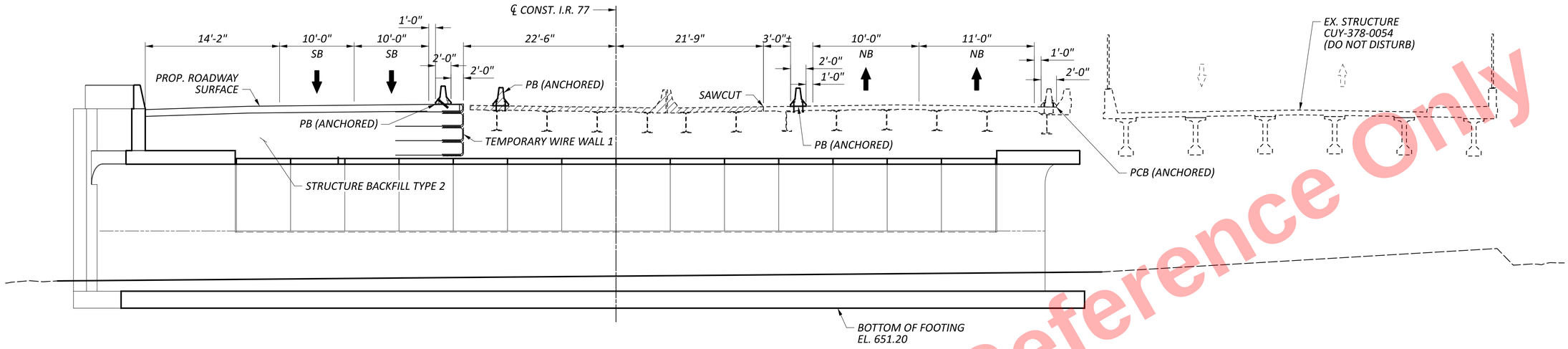
Preliminary Plans - For Reference Only



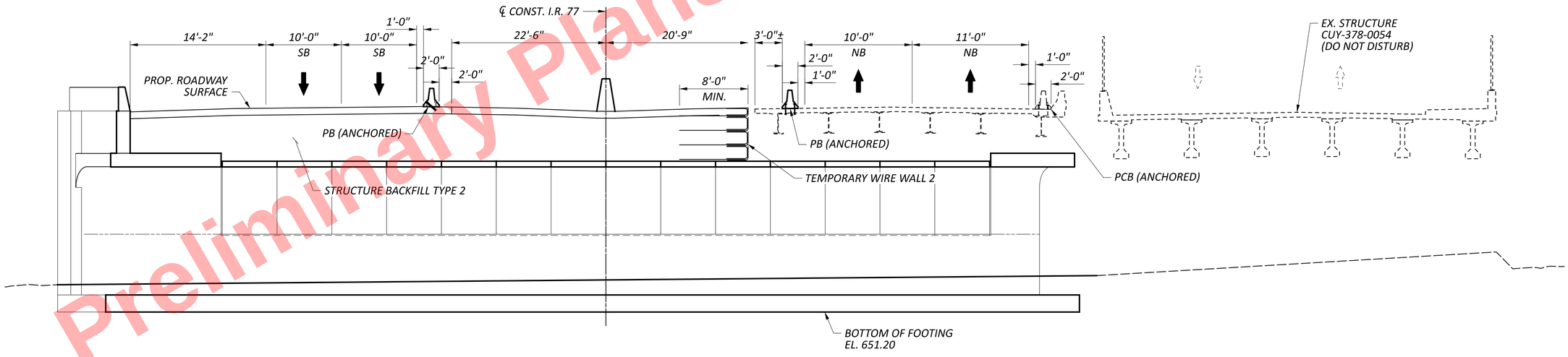
PHASE 2

DIMENSIONS NORMAL TO ℄ CONST. I.R. 77

NOTES:

1. GRANULAR MATERIAL, TYPE C, COMPACTED PER CMS 203, SHALL BE PLACED UP TO THE TOP OF THE BURIED FRAME BETWEEN THE PROPOSED STRUCTURE AND THE WALL ABUTMENTS OF THE EXISTING BRIDGE OR THE LIMITS OF THE PROPOSED WINGWALLS.

2. STRUCTURE BACKFILL, TYPE 2 SHALL BE PLACED AND COMPACTED ABOVE THE TYPE C GRANULAR MATERIAL BEHIND THE TEMPORARY MSE WALLS AND BETWEEN THE LIMITS OF THE EXISTING BRIDGE ABUTMENTS OR THE PROPOSED WINGWALLS UPTO THE ROADWAY SUBGRADE. ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED FOR THIS BACKFILL PLACEMENT WILL BE CONSIDERED INCIDENTAL TO ITEM 611 CONDUIT, TYPE A, PRECAST REINFORCED CONCRETE ARCH SECTIONS (20'-0" SPAN X 10'-" RISE).



PHASE 2

DIMENSIONS NORMAL TO ℄ CONST. I.R. 77

LEGEND

REMOVAL LIMITS

Preliminary Plans - For Reference Only

PHASED CONSTRUCTION DETAILS
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN	1806572
DESIGN AGENCY	TRC
DESIGNER	NMC
CHECKER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	7
TOTAL	25
SHEET	P.1141
TOTAL	P.1269

CUY-77-11.41 - PART 1

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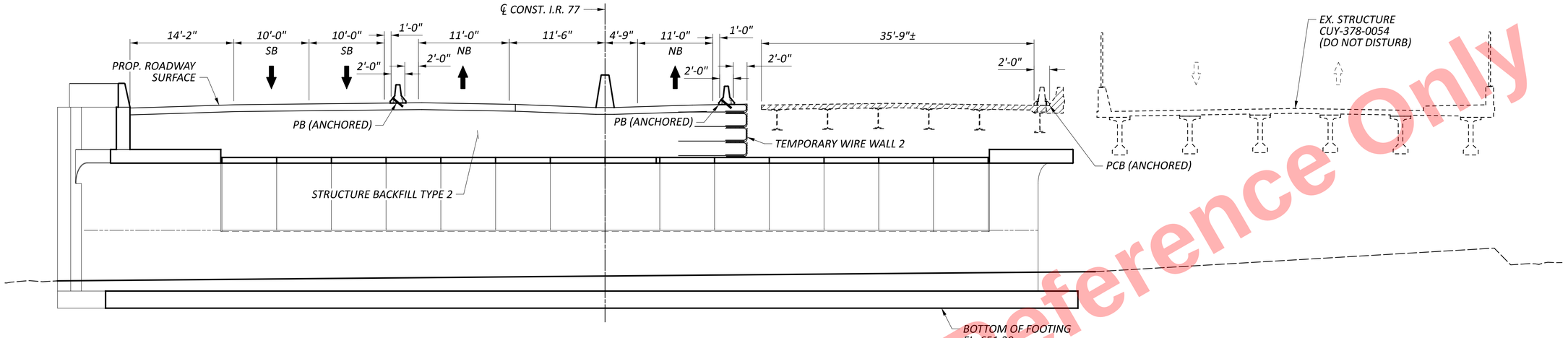
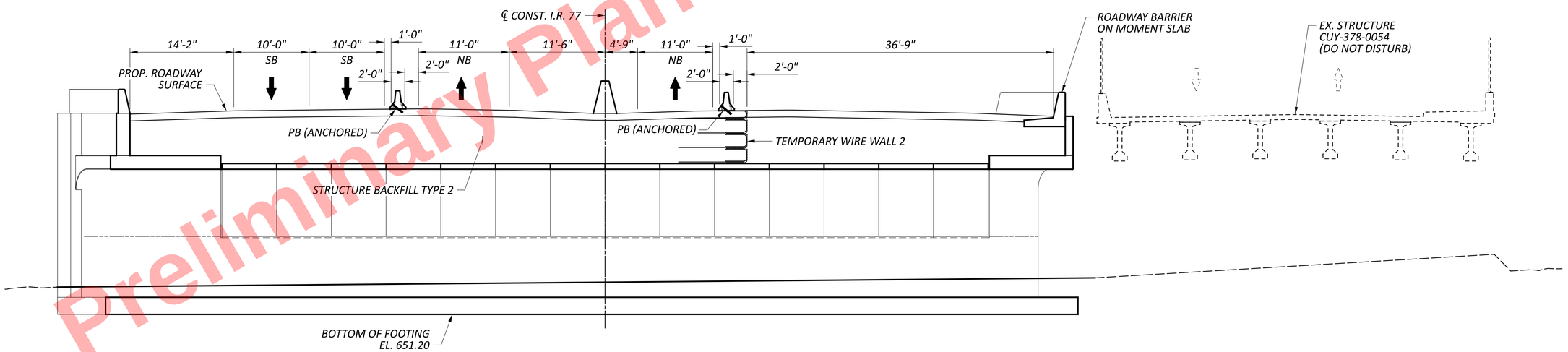


PHASE 3A, 3B, & 3C

DIMENSIONS NORMAL TO ℄ CONST. I.R. 77

NOTES:

1. GRANULAR MATERIAL, TYPE C, COMPACTED PER CMS 203, SHALL BE PLACED UP TO THE TOP OF THE BURIED FRAME BETWEEN THE PROPOSED STRUCTURE AND THE WALL ABUTMENTS OF THE EXISTING BRIDGE OR THE LIMITS OF THE PROPOSED WINGWALLS.
2. STRUCTURE BACKFILL, TYPE 2 SHALL BE PLACED AND COMPACTED ABOVE THE TYPE C GRANULAR MATERIAL BEHIND THE TEMPORARY MSE WALLS AND BETWEEN THE LIMITS OF THE EXISTING BRIDGE ABUTMENTS OR THE PROPOSED WINGWALLS UPTO THE ROADWAY SUBGRADE. ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED FOR THIS BACKFILL PLACEMENT WILL BE CONSIDERED INCIDENTAL TO ITEM 611 CONDUIT, TYPE A, PRECAST REINFORCED CONCRETE ARCH SECTIONS (20'-0" SPAN X 10'-" RISE).



PHASE 3A, 3B, & 3C

DIMENSIONS NORMAL TO ℄ CONST. I.R. 77

LEGEND

REMOVAL LIMITS

Preliminary Plans - For Reference Only

PHASED CONSTRUCTION DETAILS
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN 1806572

DESIGN AGENCY: TRC

DESIGNER	CHECKER
NMC	CEJ

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET	TOTAL
8	25

SHEET	TOTAL
P.1142	P.1269

CUY-77-11.41 - PART 1

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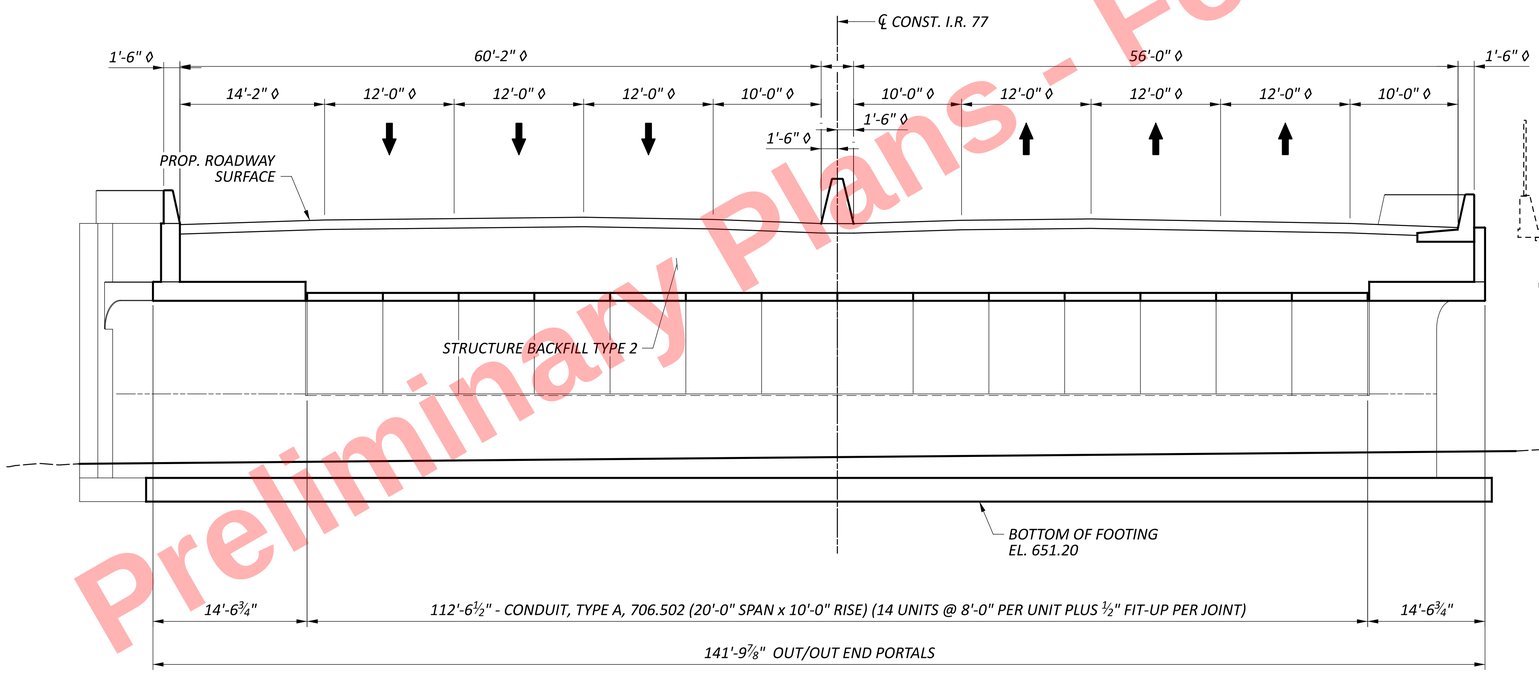
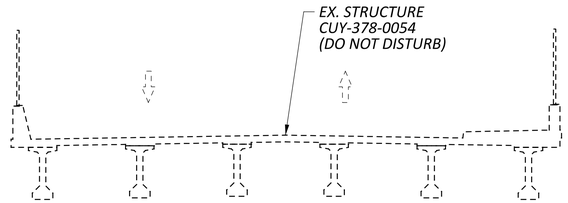




Preliminary Plans - For Reference Only

FINAL

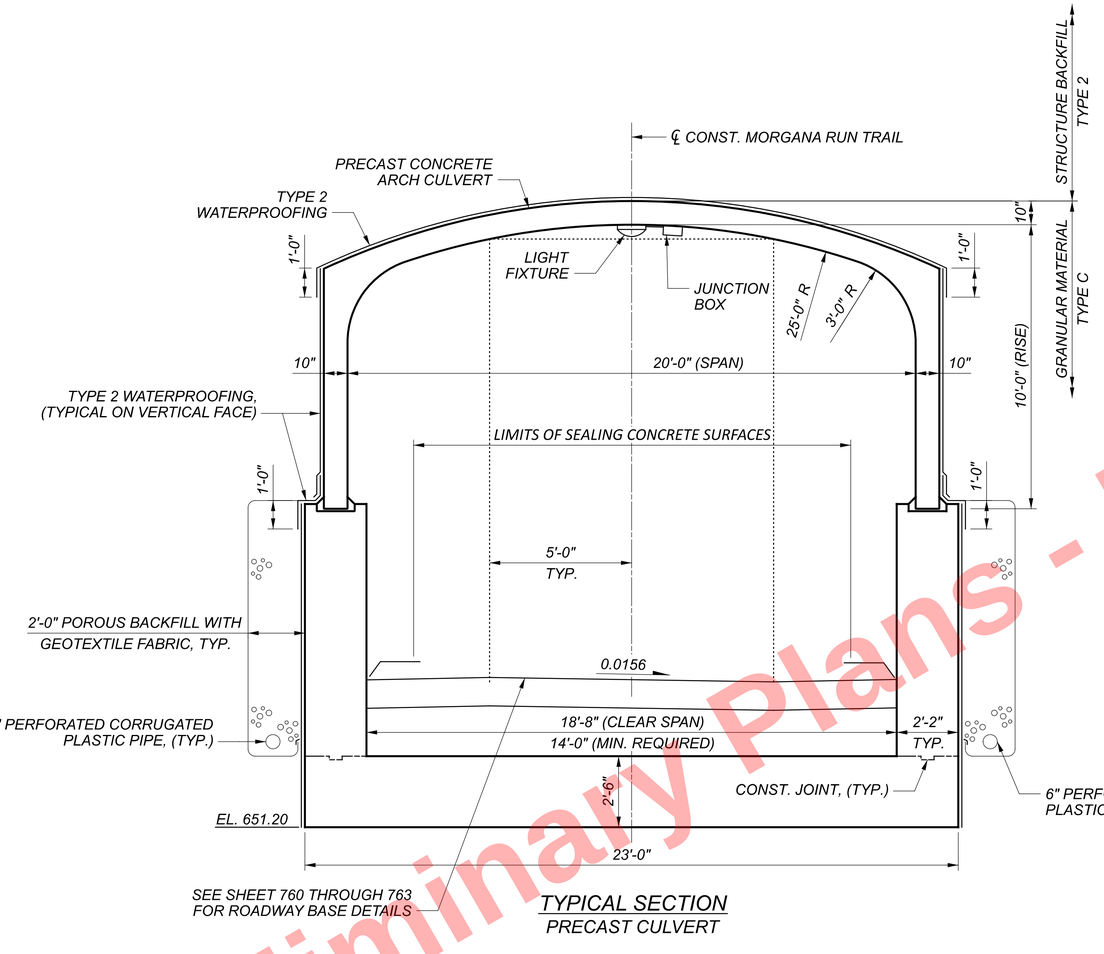
DIMENSIONS MEASURED ALONG ℄ CONST. MORGANA RUN TRAIL, UNLESS NOTED OTHERWISE

LEGEND

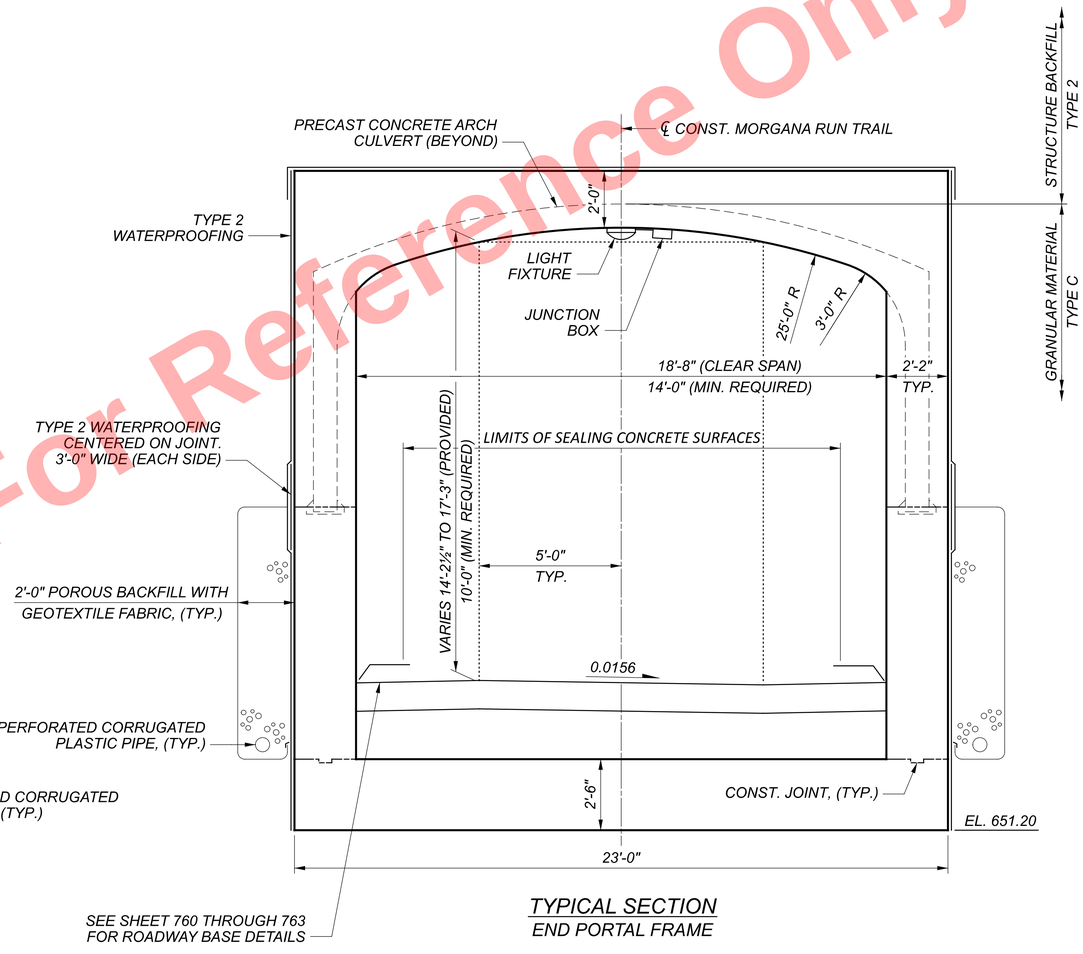
REMOVAL LIMITS

PHASED CONSTRUCTION DETAILS
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN	1806572
DESIGN AGENCY	TRC
DESIGNER	NMC
CHECKER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	9
TOTAL	25
SHEET	P.1143
TOTAL	P.1269



TYPICAL SECTION
PRECAST CULVERT



TYPICAL SECTION
END PORTAL FRAME

NOTE:

1. SEE LIGHTING PLANS FOR DETAILS OF LIGHT FIXTURES, WIRING AND CONDUIT FACILITIES.

Preliminary Plans - For Reference Only

TRANSVERSE SECTION
BRIDGE NO. CUY-77-1322 OVER ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:54:57 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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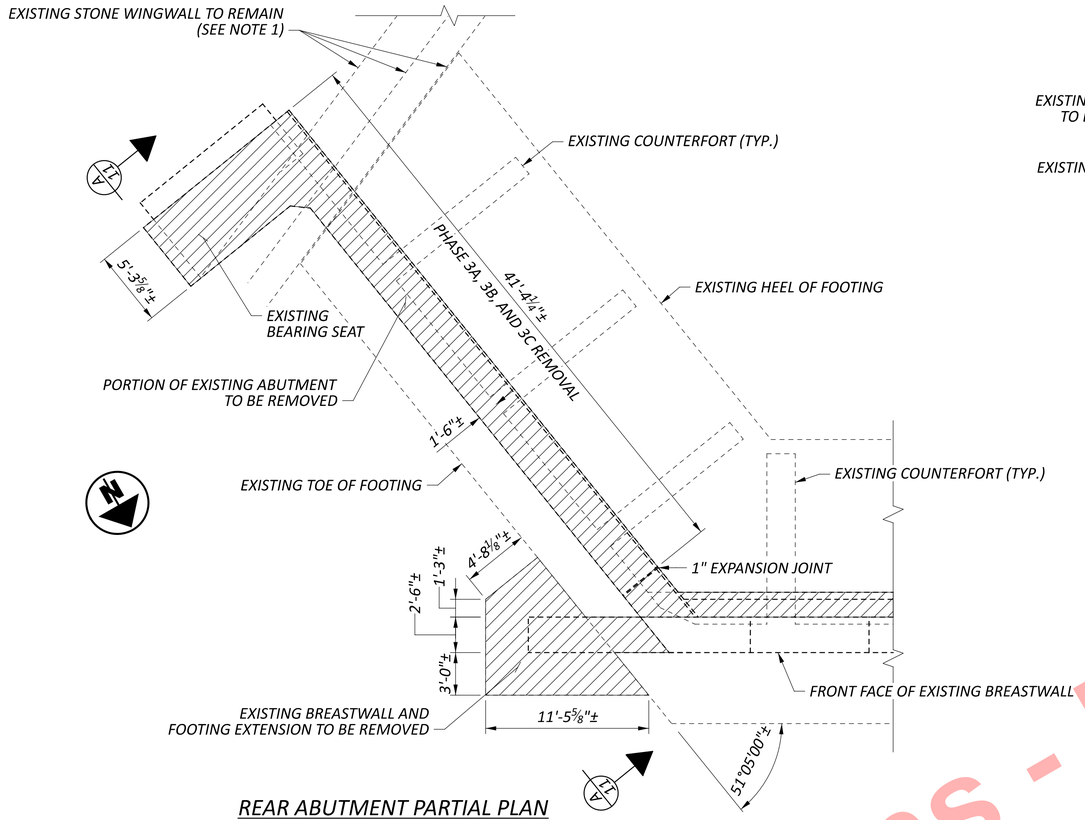
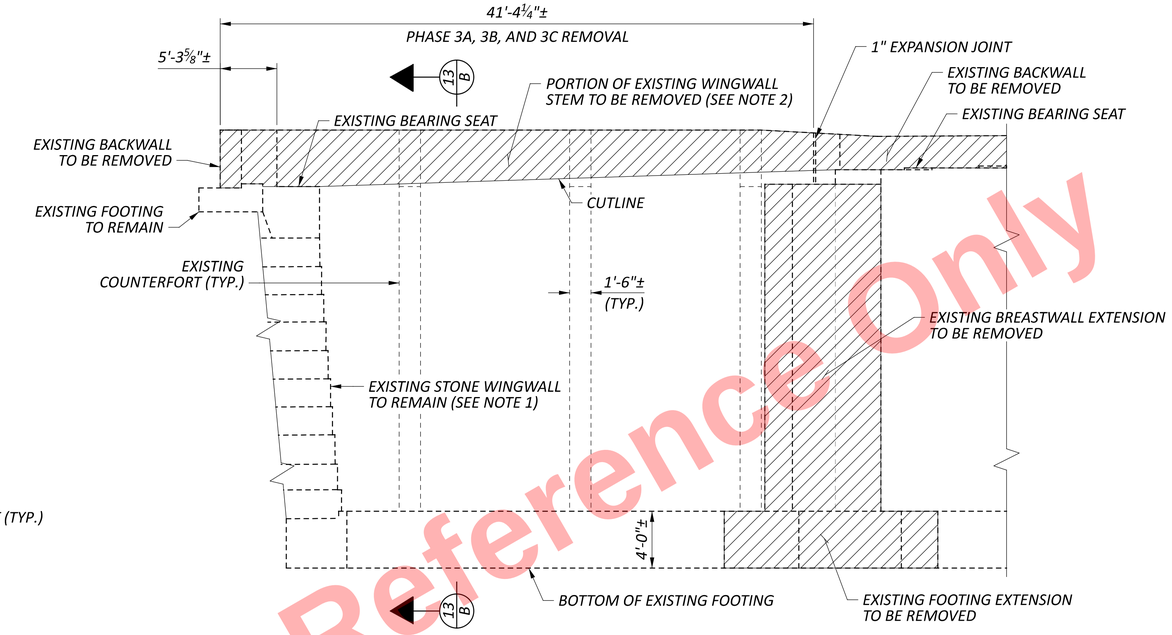
SFN	1806572
DESIGN AGENCY	TRC
DESIGNER	NMC
CHECKER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	10
TOTAL	25
SHEET	P.1144
TOTAL	P.1269



REAR ABUTMENT PARTIAL PLAN



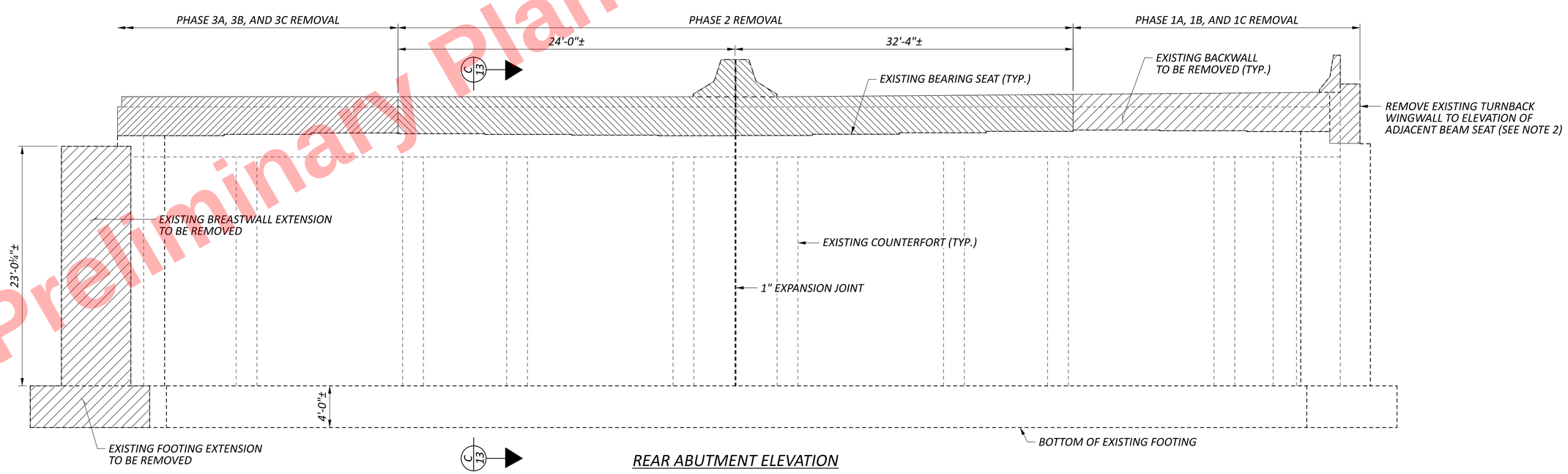
VIEW A-A

NOTES:

1. THE EXISTING WINGWALL AND BACKWALL OF BRIDGE CUY-77-1322 ADJOIN THE REAR ABUTMENT OF THE EAST 49TH STREET (CR 378) BRIDGE. DURING CUTTING AND STRUCTURE REMOVAL OPERATIONS, CARE SHALL BE EXERCISED TO PROTECT FROM DAMAGE THE EXISTING STONE BLOCK WINGWALL AND ADJACENT BRIDGE ABUTMENT.

2. REMOVAL CUTS SHALL NOT BE PERFORMED ON THE EXISTING WINGWALL STEM AND COUNTERFORTS UNTIL BACKFILL HAS BEEN PLACED AND COMPACTED BETWEEN THE EXISTING SUBSTRUCTURE AND THE PROPOSED RETAINING WALL IN FRONT OF IT UP TO AN ELEVATION WITHIN 2 FEET OF THE CUT LINE.

3. FOR SECTION B-B AND SECTION C-C, SEE SHEET 13/25.



REAR ABUTMENT ELEVATION

Preliminary Plans - For Reference Only

ABUTMENT REMOVAL DETAILS
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

CUY-77-11.41 - PART 1

SFN 1806572

DESIGN AGENCY TRC

DESIGNER	CHECKER
NMC	CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET	TOTAL
11	25

SHEET	TOTAL
P.1145	P.1269

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MODEL: Structure Removal - 1 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:55:12 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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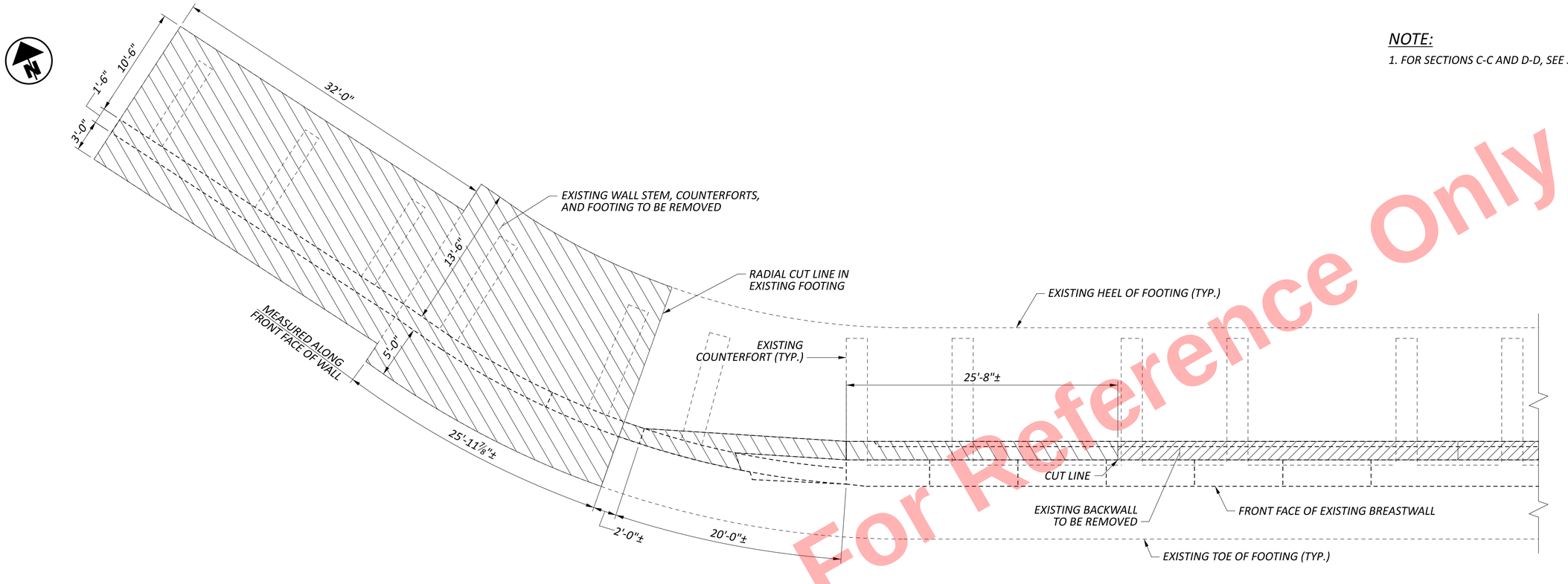
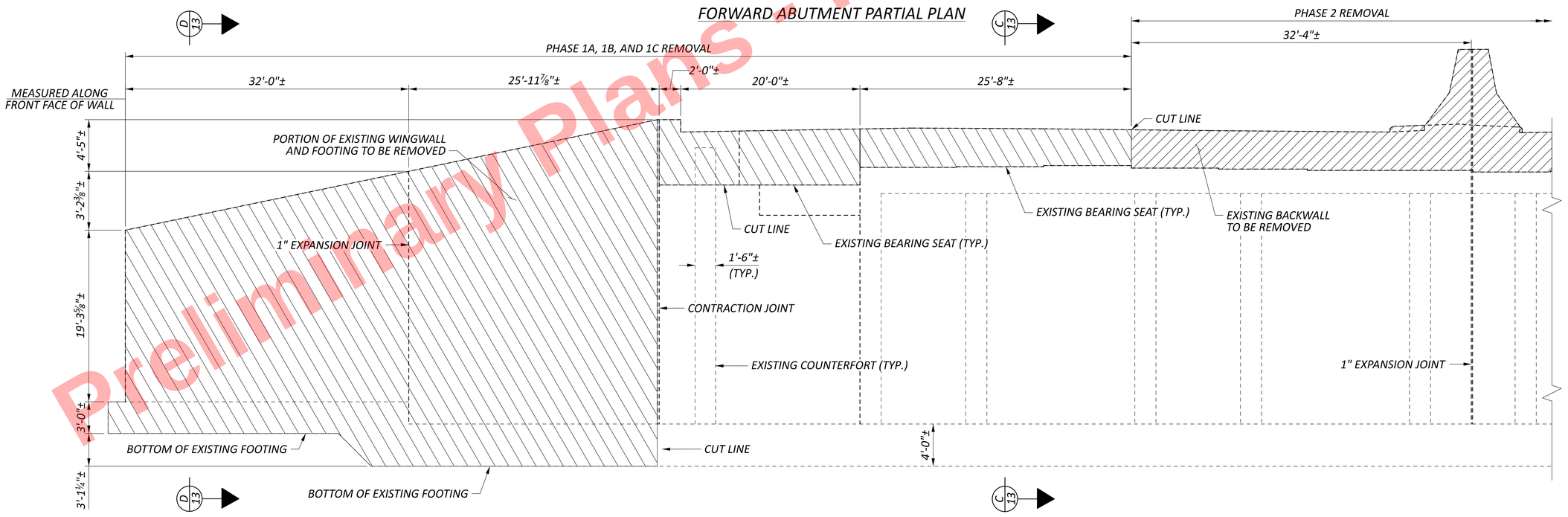
CUY-77-11.41 - PART 1

NOTE:

1. FOR SECTIONS C-C AND D-D, SEE SHEET 13/25.



FORWARD ABUTMENT PARTIAL PLAN

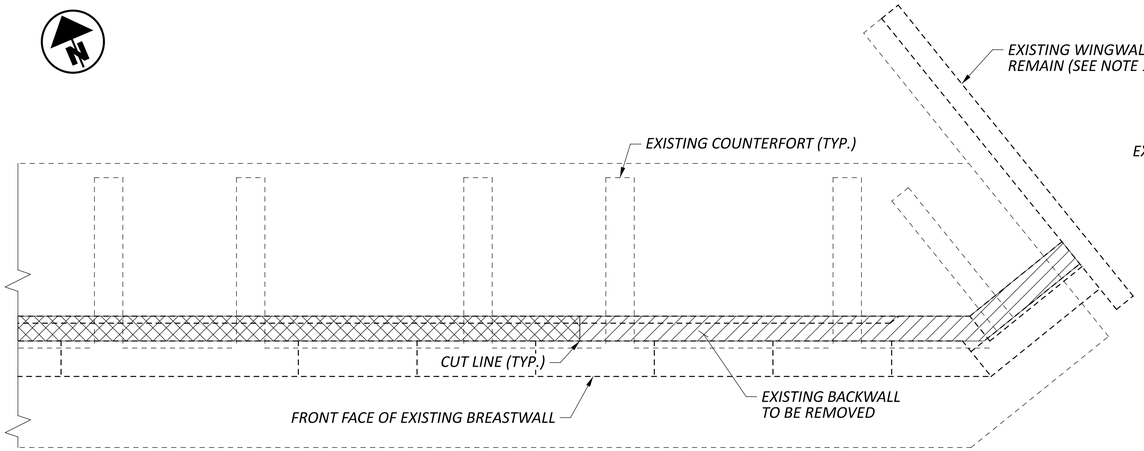


FORWARD ABUTMENT PARTIAL ELEVATION

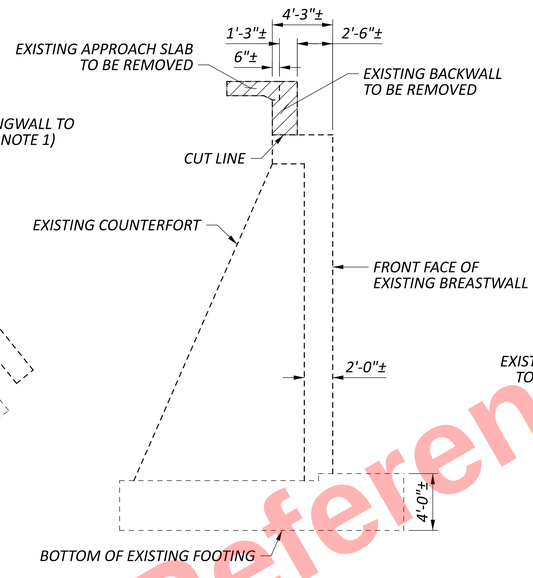
Preliminary Plans - Pending
For Reference Only

ABUTMENT REMOVAL DETAILS
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

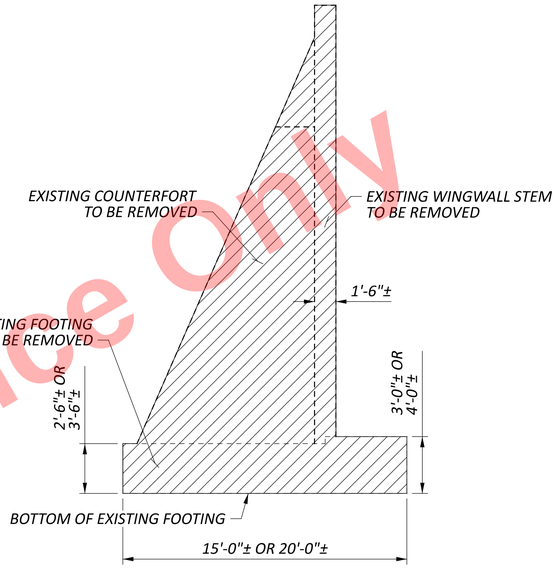
SFN	1806572
DESIGN AGENCY	TRC
DESIGNER	NMC
CHECKER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	12
TOTAL	25
SHEET	P.1146
TOTAL	P.1269



FORWARD ABUTMENT PARTIAL PLAN



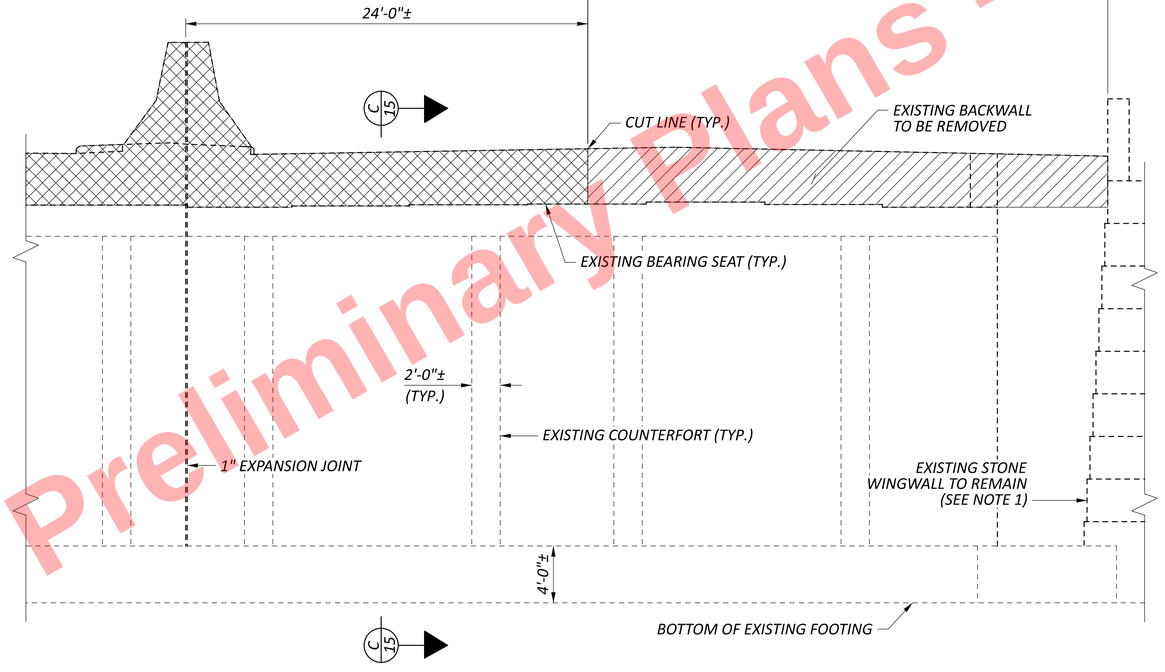
SECTION C-C



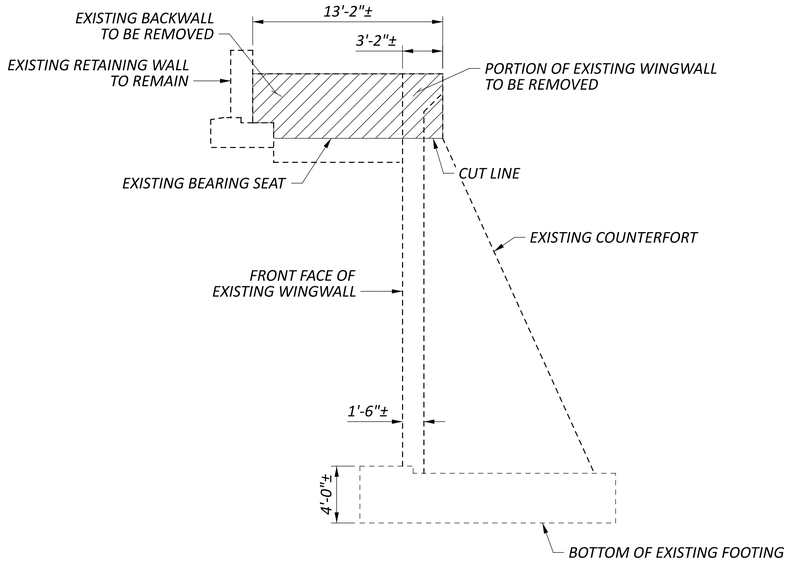
SECTION D-D

NOTES:

1. THE EXISTING BACKWALL OF BRIDGE CUY-77-1322 ADJOINS THE FORWARD ABUTMENT OF THE EAST 49TH STREET (CR378) BRIDGE. DURING CUTTING AND STRUCTURE REMOVAL OPERATIONS, CARE SHALL BE EXERCISED TO PROTECT FROM DAMAGE THE ADJACENT BRIDGE ABUTMENT AND WINGWALL. AS SUCH, PRIOR TO ANY REMOVAL WORK TO TAKE PLACE WITHIN 3 FEET OF THE L/A AND R/W LINE, THE CONTRACTOR AND THE ENGINEER SHALL WORK TOGETHER TO MARK PROPOSED REMOVAL LIMITS ON THE EXISTING STRUCTURE. ANY COMPONENTS OF THE EXISTING 49TH STREET BRIDGE DAMAGED BY REMOVAL OPERATIONS SHALL BE REPAIRED AT NO COST TO THE PROJECT.
2. FOR LOCATION OF SECTION B-B AND ADDITIONAL REMOVAL DETAILS AND NOTES, SEE SHEET 11/25.
3. FOR LOCATION OF SECTION D-D, SEE SHEET 12/25.



FORWARD ABUTMENT PARTIAL ELEVATION



SECTION B-B

Preliminary Plans - For Reference Only

ABUTMENT REMOVAL DETAILS
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN	1806572
DESIGN AGENCY	TRC
DESIGNER	NMC
CHECKER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	13
TOTAL	25
SHEET	P.1147
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: Structure Removal -- 2 PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:55:13 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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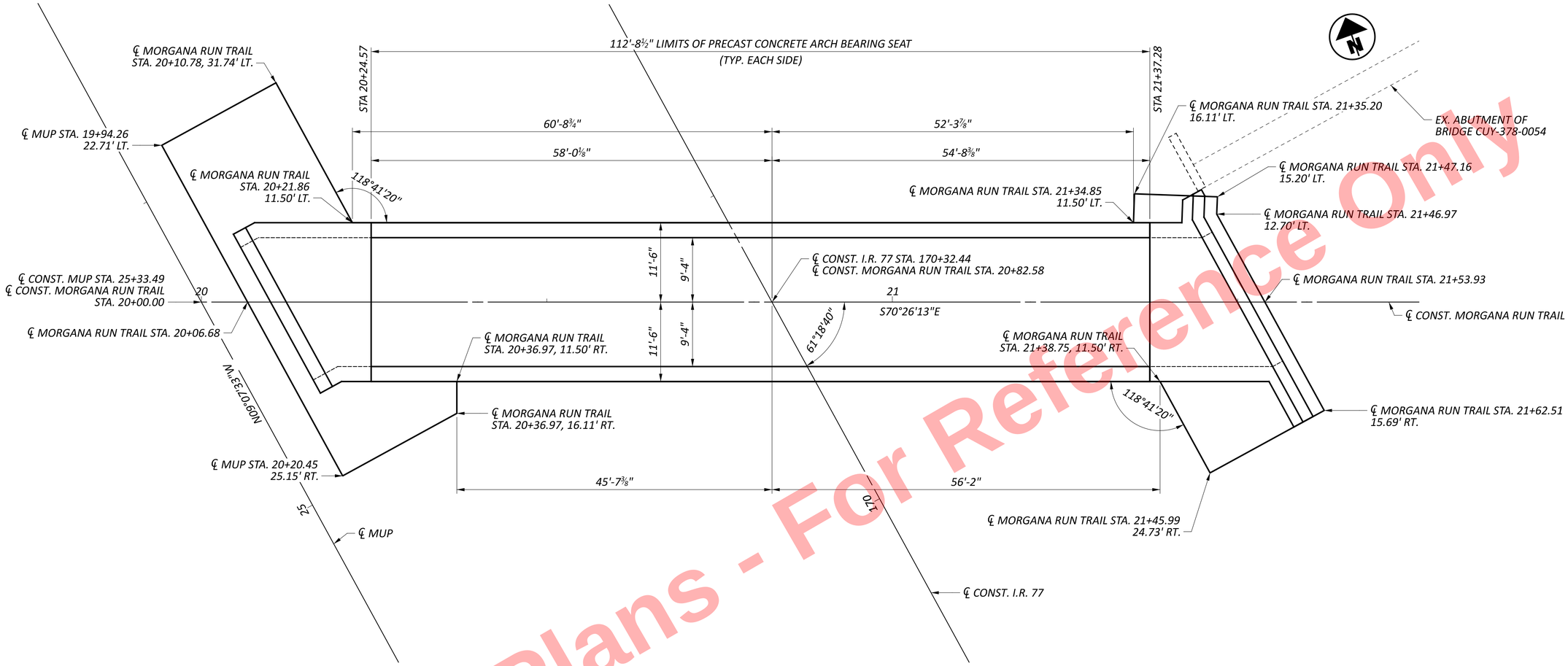

FOUNDATION PLAN AND GEOMETRY SCHEMATIC

(END PORTALS AND WINGWALLS NOT SHOWN)

Preliminary Plans - For Reference Only

FOUNDATION PLAN
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:55:29 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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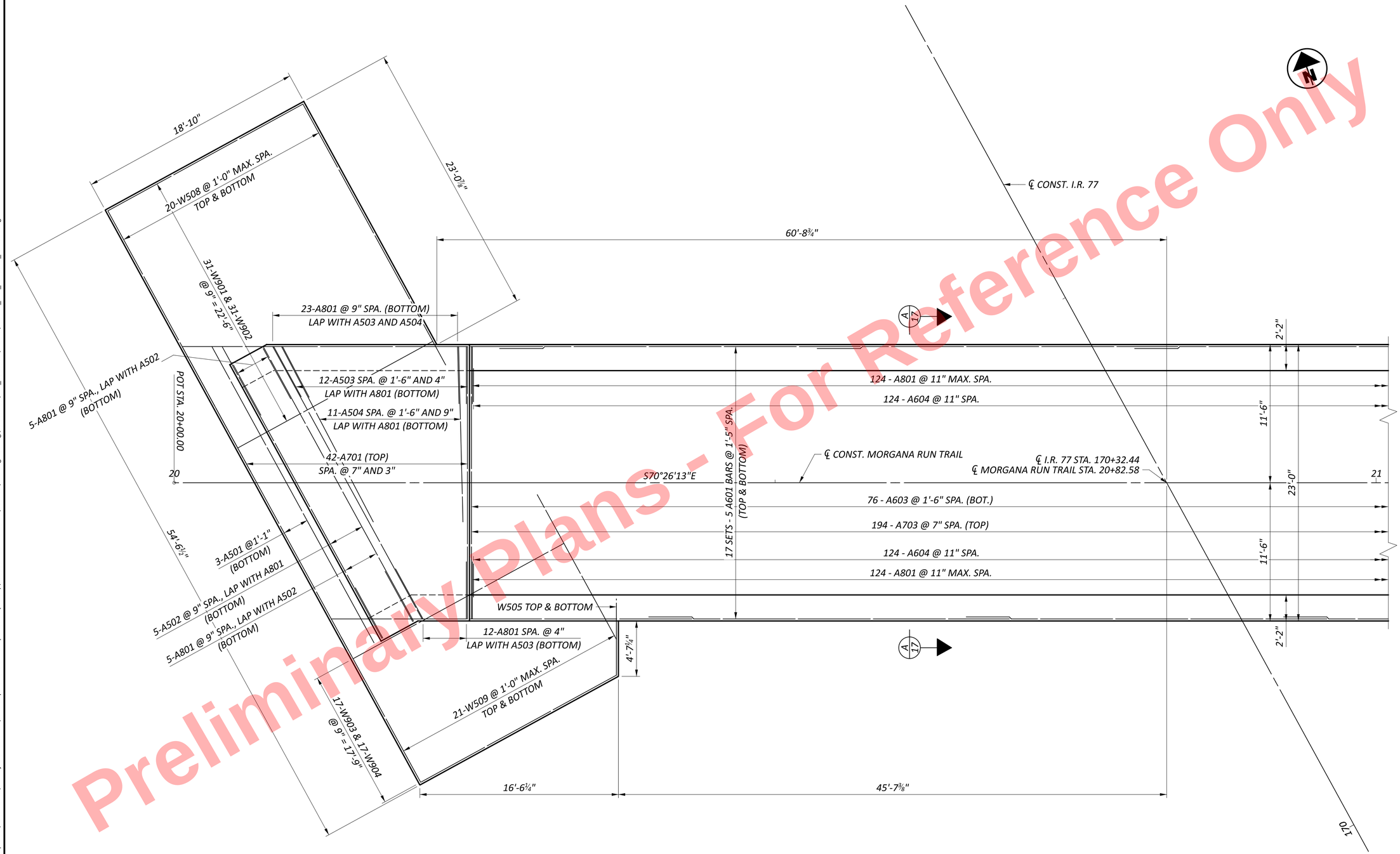
SFN	1806572
DESIGN AGENCY	TRC
DESIGNER	NMC
CHECKER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	14
TOTAL	25
SHEET	P.1148
TOTAL	P.1269



Preliminary Plans - For Reference Only

NOTE:

1. FOR SECTION A-A DETAILS, SEE SHEET 17/25.

PARTIAL FOOTING PLAN

(END PORTALS AND WINGWALLS NOT SHOWN)

FOUNDATION DETAILS - I

BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN	1806572
DESIGN AGENCY	TRC
DESIGNER	NMC
CHECKER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	15
TOTAL	25
SHEET	P.1149
TOTAL	P.1269

CUY-77-11.41 - PART 1

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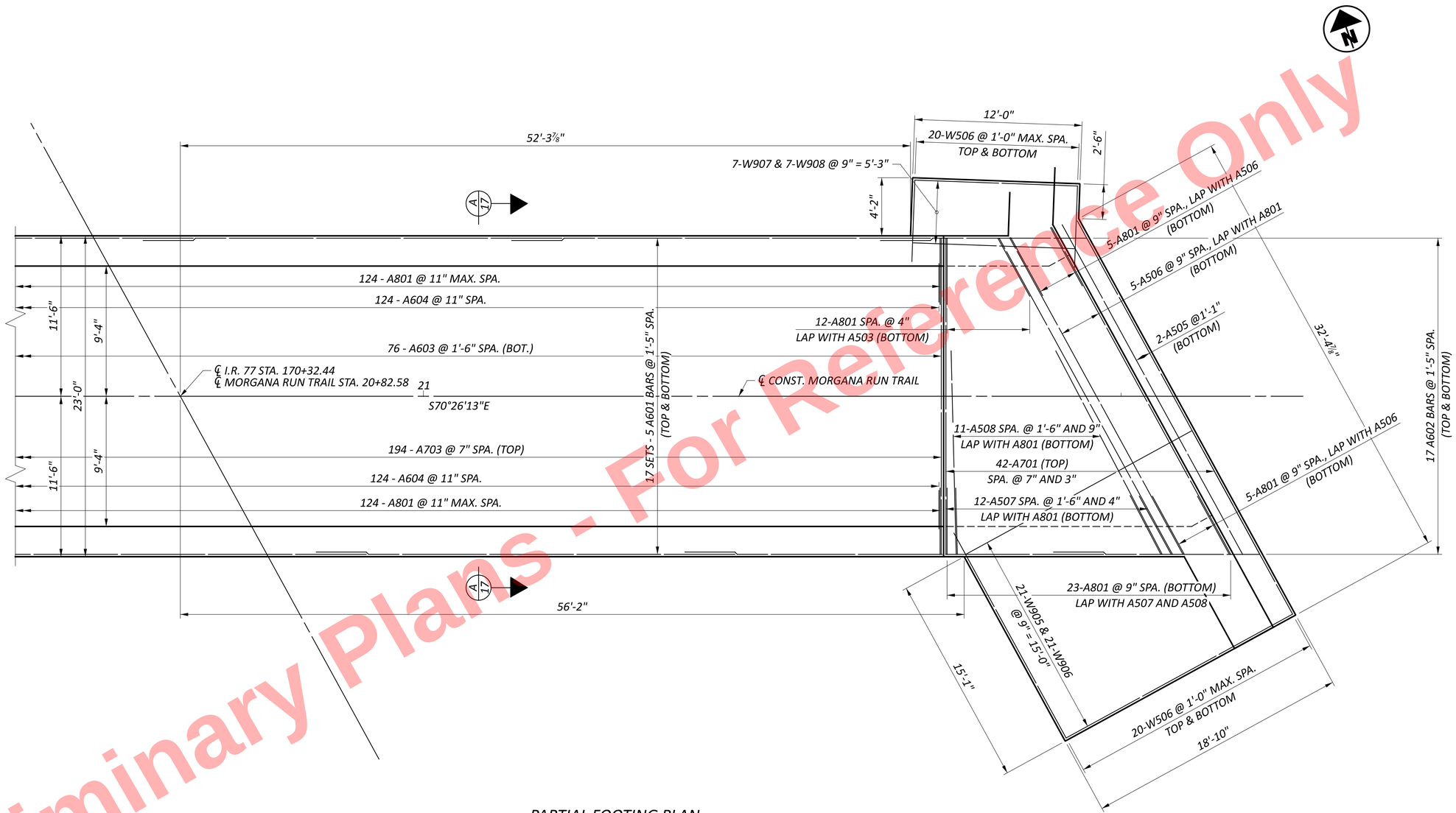

PARTIAL FOOTING PLAN

(END PORTALS AND WINGWALLS NOT SHOWN)

NOTE:

1. FOR LOCATION OF SECTION A-A SEE SHEETS 17/25.

Preliminary Plans - For Reference Only

FOUNDATION DETAILS - II
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN	1806572
DESIGN AGENCY	TRC
DESIGNER	NMC
CHECKER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	16
TOTAL	25
SHEET	P.1150
TOTAL	P.1269

CUY-77-11.41 - PART 1

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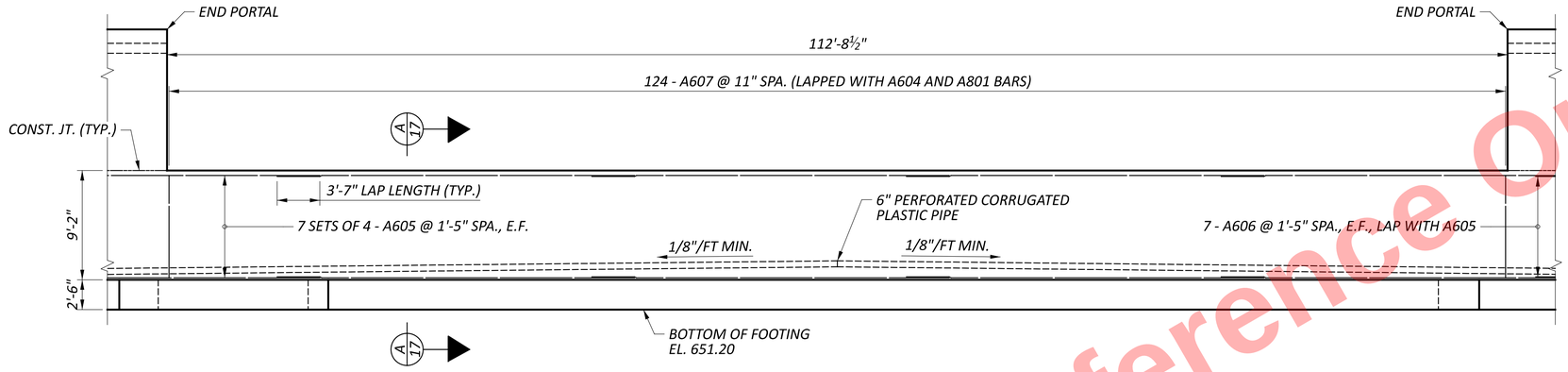
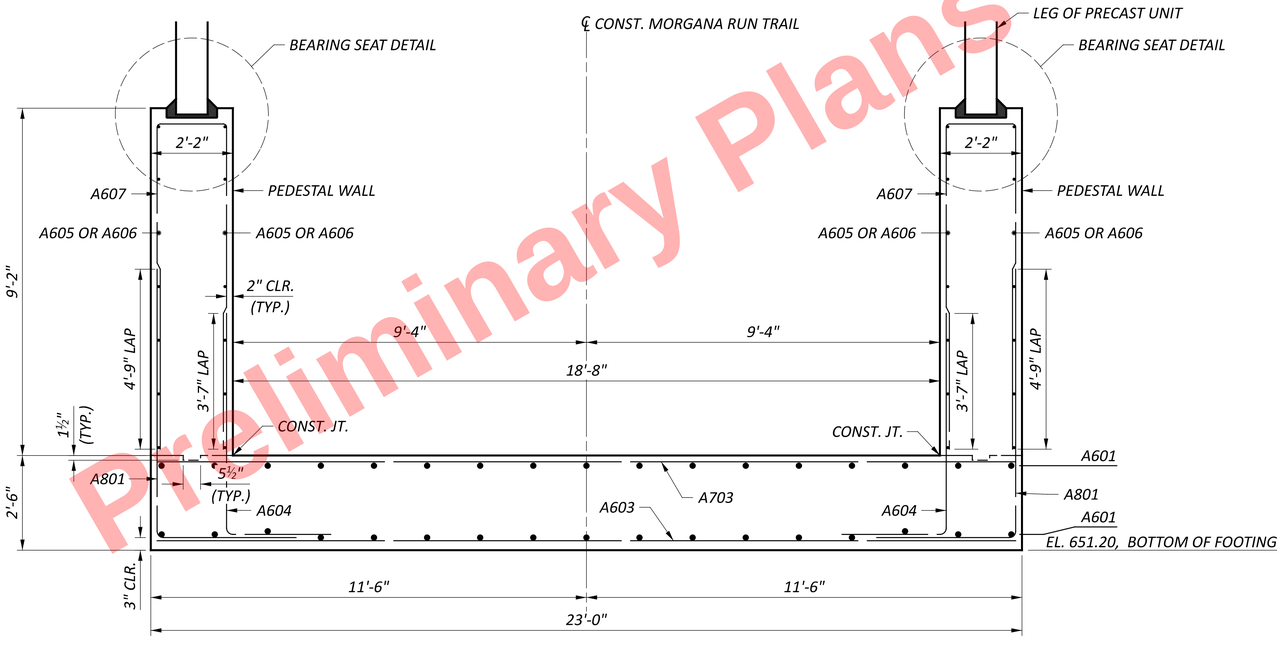


PEDESTAL ELEVATION

(TYPICAL EACH SIDE)

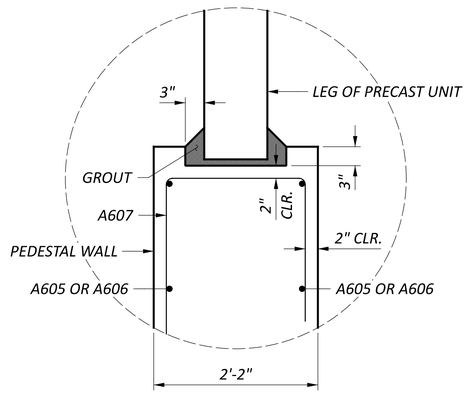


SECTION A-A

Preliminary Plans - For Reference Only

NOTES:

1. *SEE SHEET 15/26 & SHEET 16/25 FOR FOOTING REINFORCEMENT DETAILS.*
2. *SEE SHEET 14/25 FOR FOOTING LAYOUT DETAILS.*
3. *LOCATIONS OF SECTION A-A ARE ALSO SHOWN ON SHEETS 15/25 AND 16/25.*



BEARING SEAT DETAIL

PEDESTAL WALL DETAILS
BRIDGE NO. CUY-77-1322 OVER ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN	1806572
DESIGN AGENCY	TRC
DESIGNER	NMC
CHECKER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	17
TOTAL	25
SHEET	P.1151
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:55:54 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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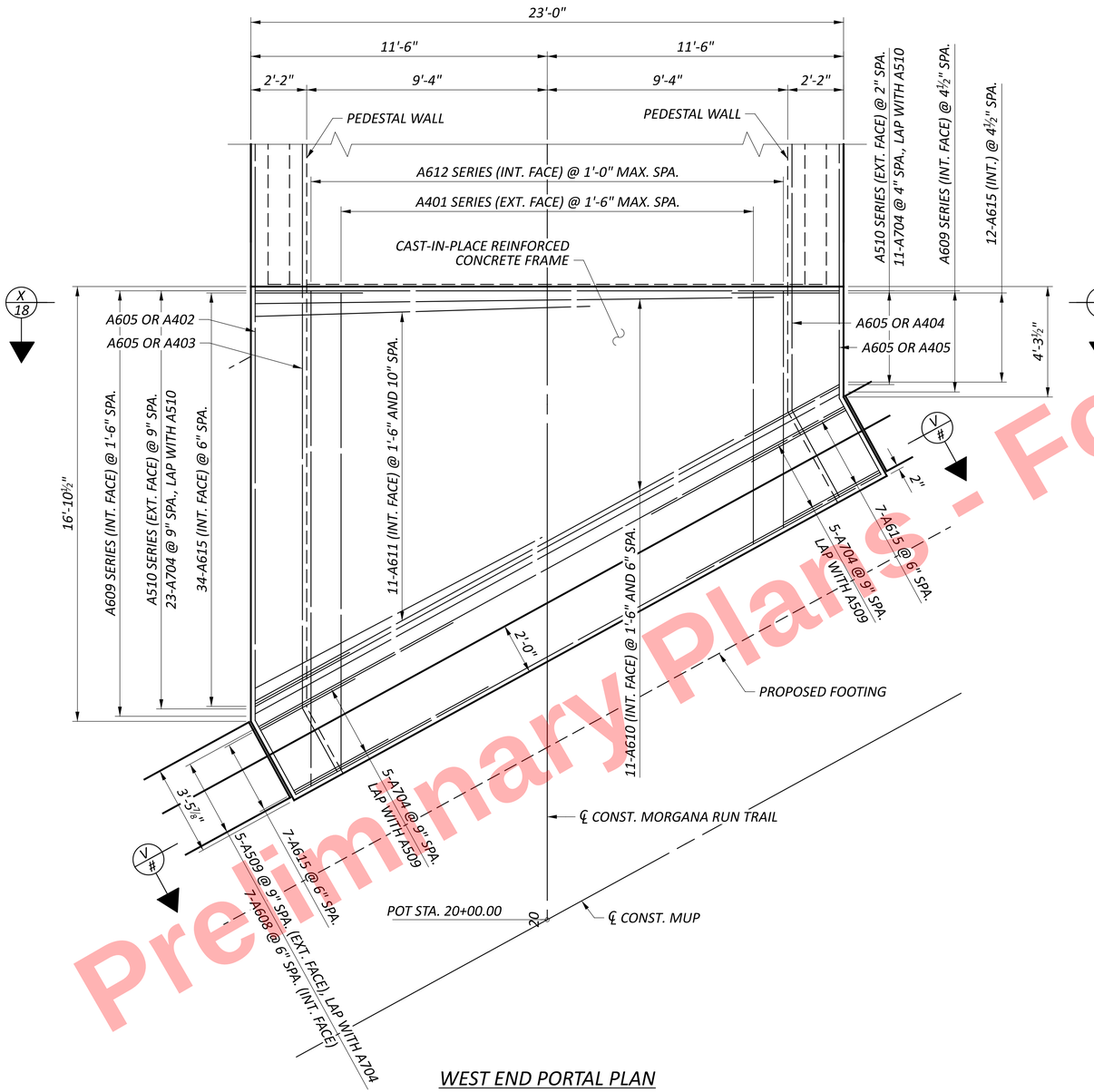
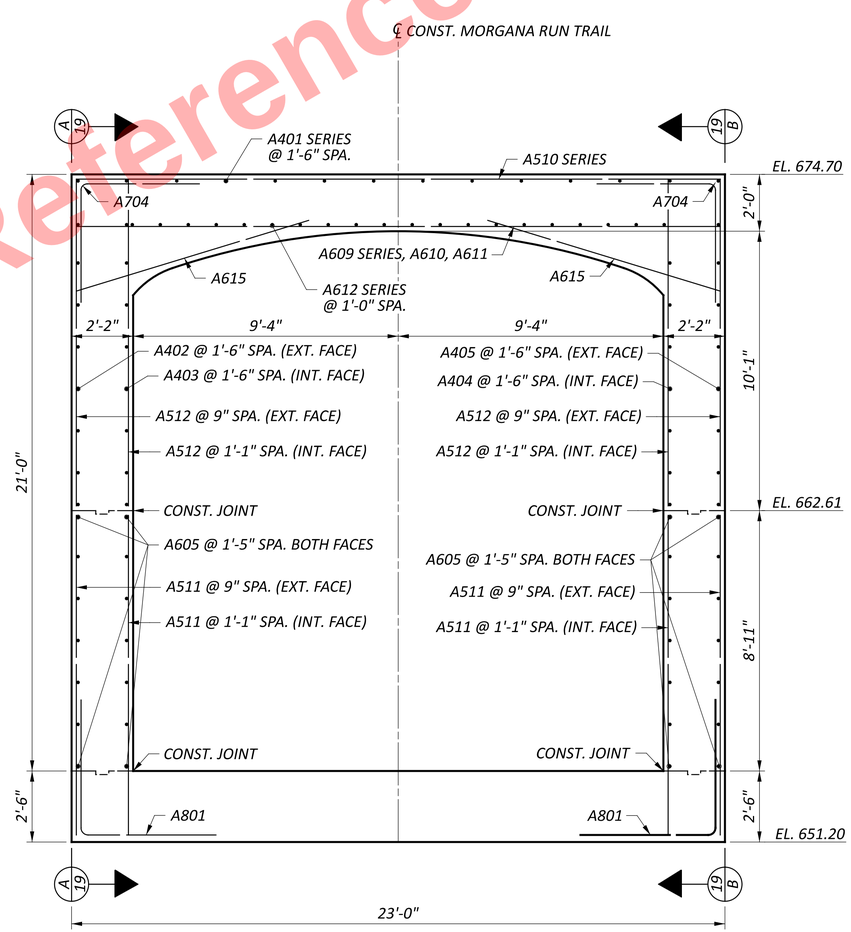


WEST END PORTAL PLAN



SECTION X-X

NOTES:

1. FOR SECTIONS A-A AND B-B, SEE SHEET 19/25.
2. FOR SECTION V-V, SEE SHEET 24/25

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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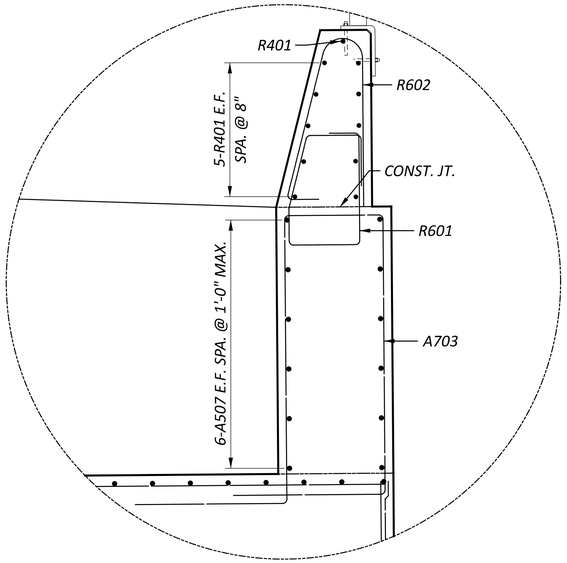
WEST END PORTAL DETAILS
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

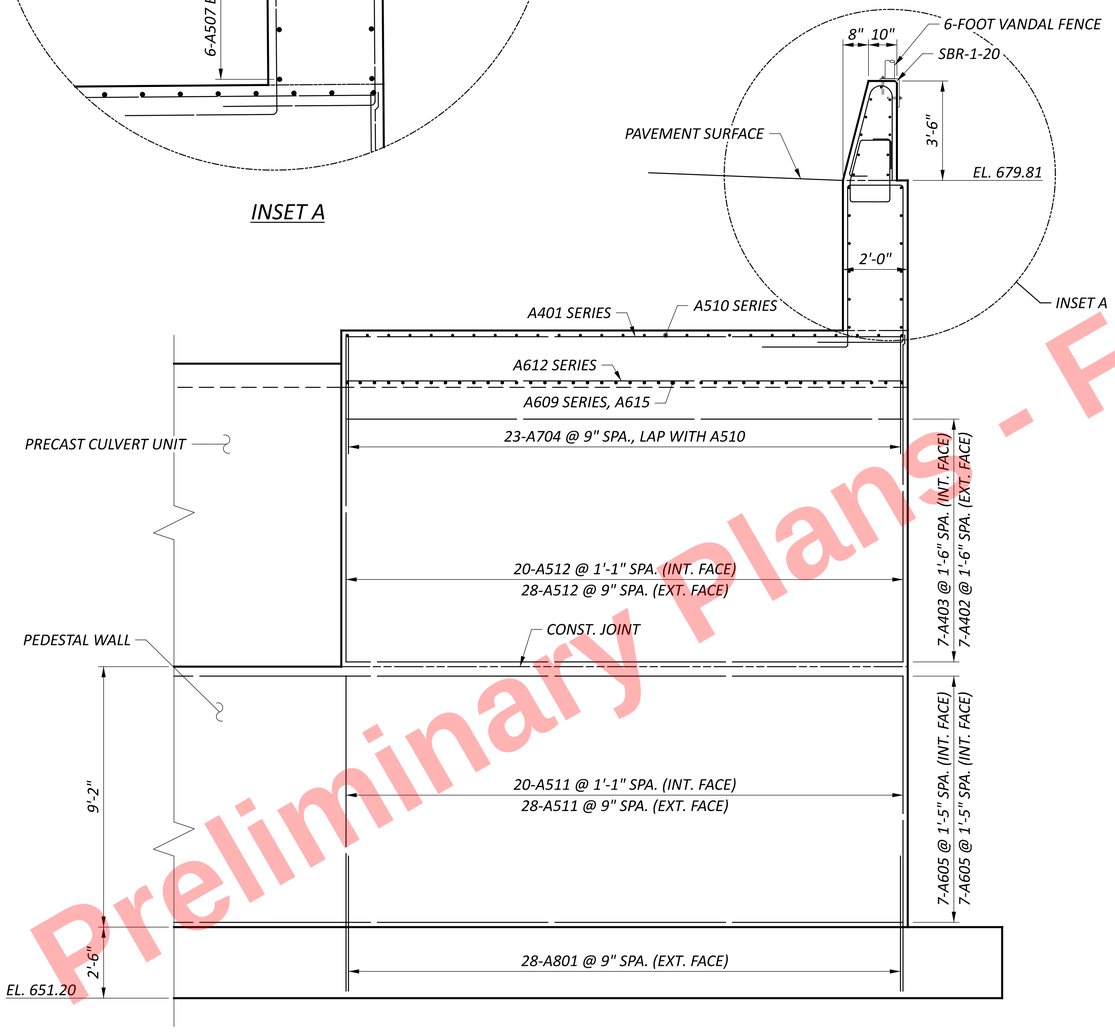
SFN	1806572
DESIGN AGENCY	TRC
DESIGNER	NMC
CHECKER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	18
TOTAL	25
SHEET	P.1152
TOTAL	P.1269



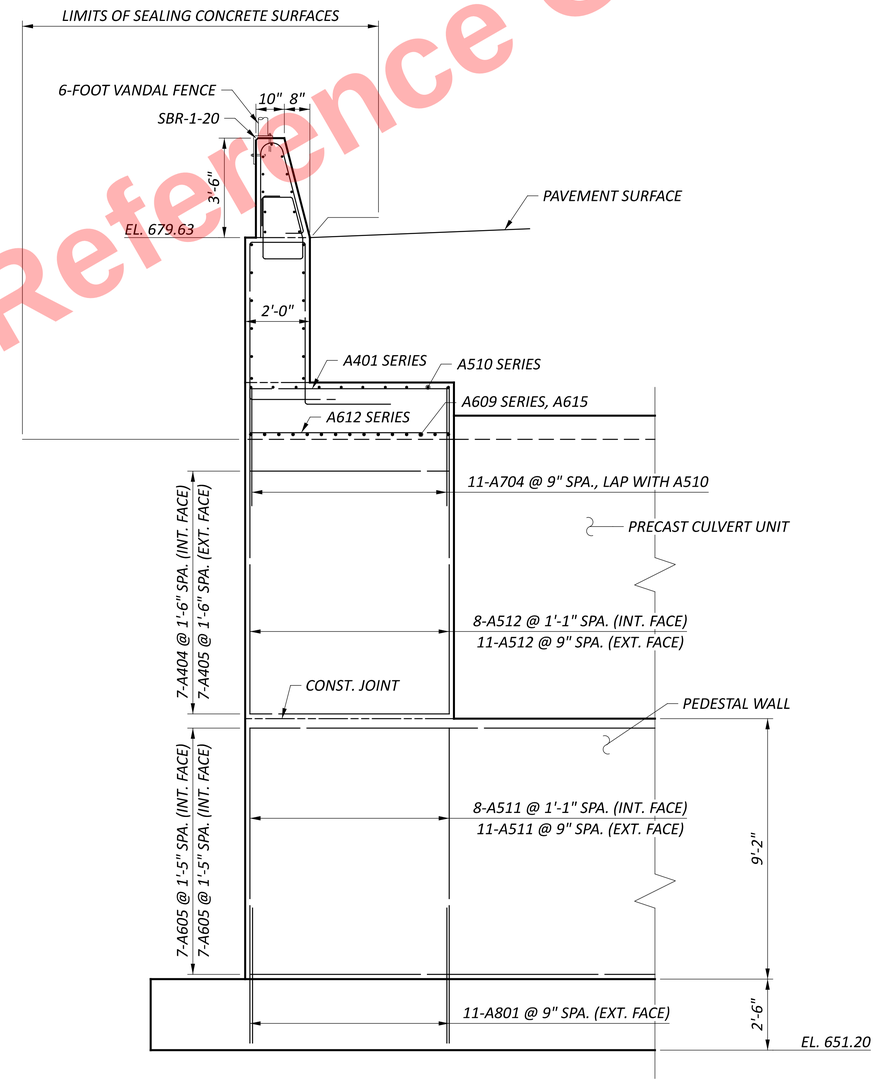
INSET A

NOTE:

1. FOR LOCATION OF SECTIONS A-A AND B-B, SEE SHEET 18/25.



SECTION A-A



SECTION B-B

Preliminary Plans - For Reference Only

WEST END PORTAL DETAILS
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN 1806572

DESIGN AGENCY TRC

DESIGNER	CHECKER
NMC	CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET	TOTAL
19	25

SHEET	TOTAL
P.1153	P.1269

CUY-77-11.41 - PART 1

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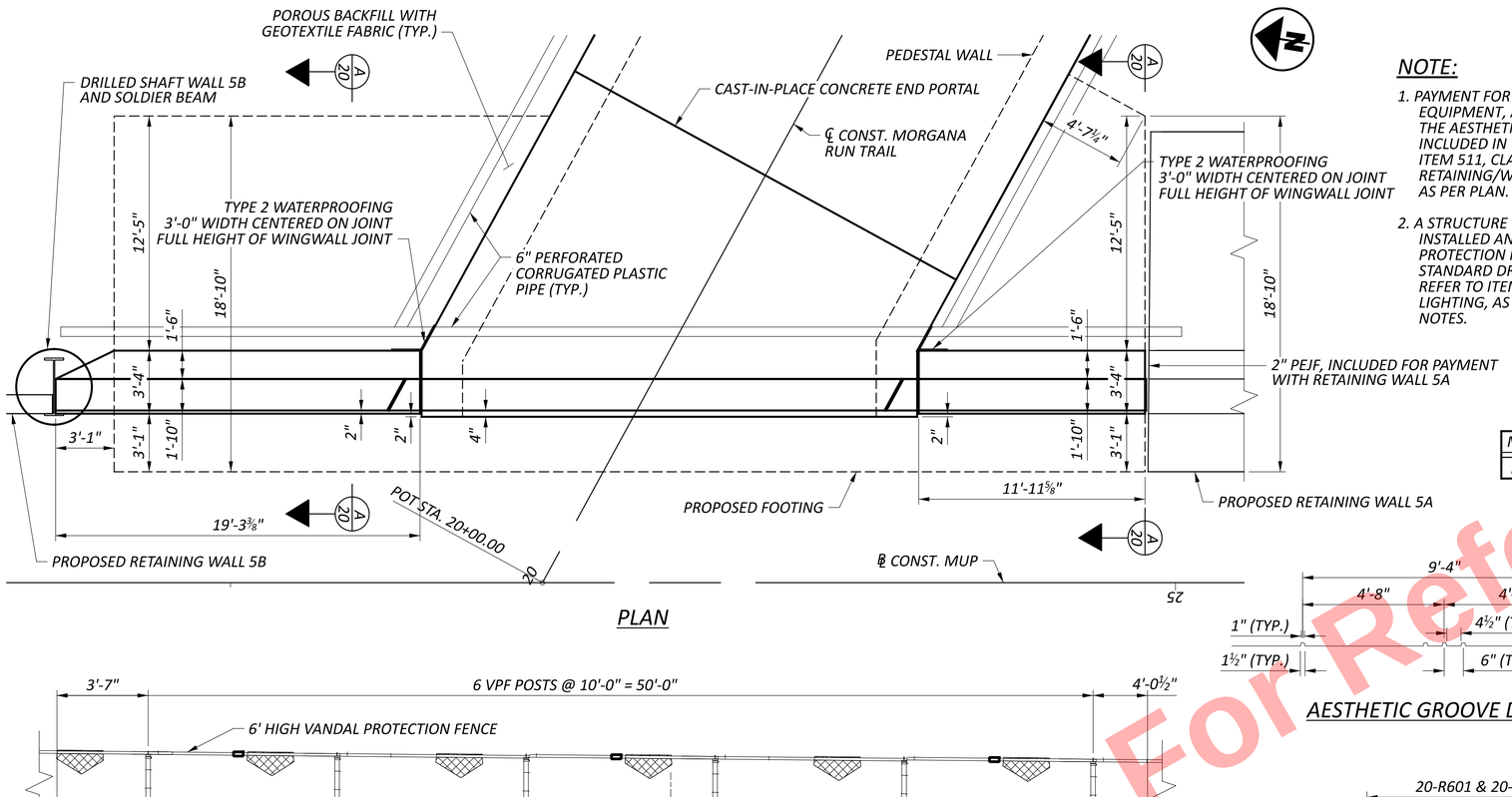


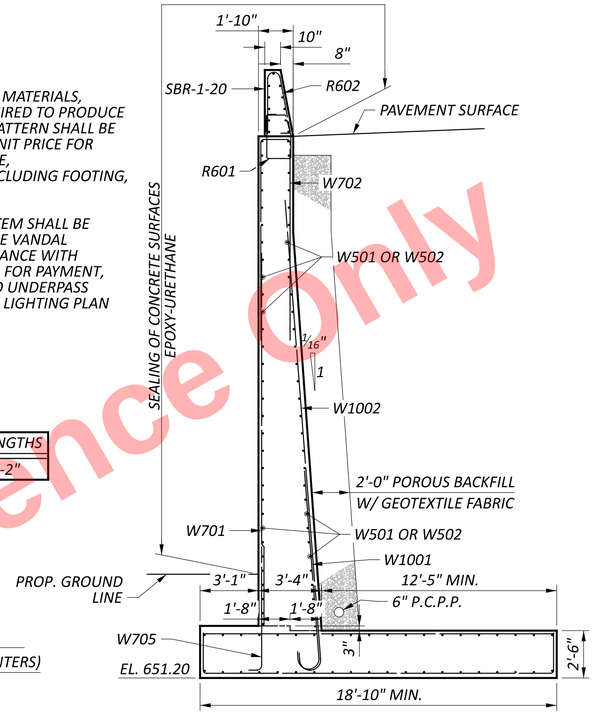
PLAN

NOTE:

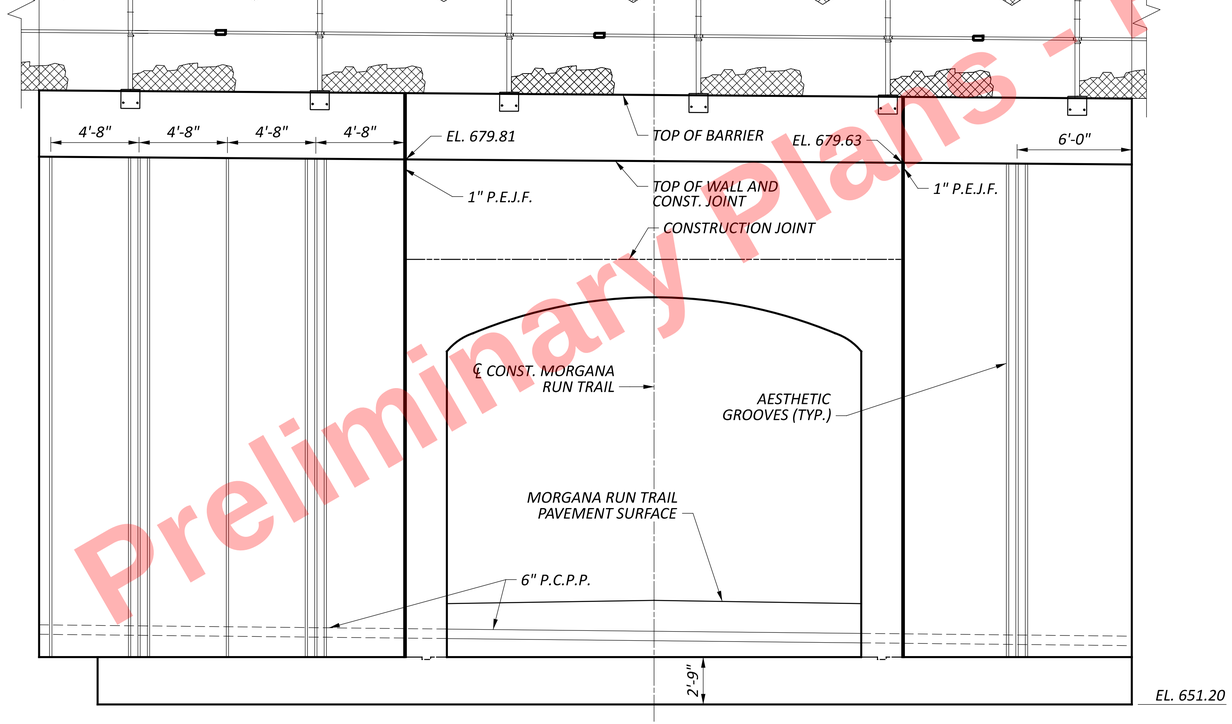
1. PAYMENT FOR ALL FORMWORK, MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO PRODUCE THE AESTHETIC WALL FACING PATTERN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 511, CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN.
2. A STRUCTURE GROUNDING SYSTEM SHALL BE INSTALLED AND BONDED TO THE VANDAL PROTECTION FENCE IN ACCORDANCE WITH STANDARD DRAWING HL-50.21. FOR PAYMENT, REFER TO ITEM 625, SERVICE TO UNDERPASS LIGHTING, AS PER PLAN, IN THE LIGHTING PLAN NOTES.

MINIMUM LAP LENGTHS	
NO. 7 BAR	4'-2"

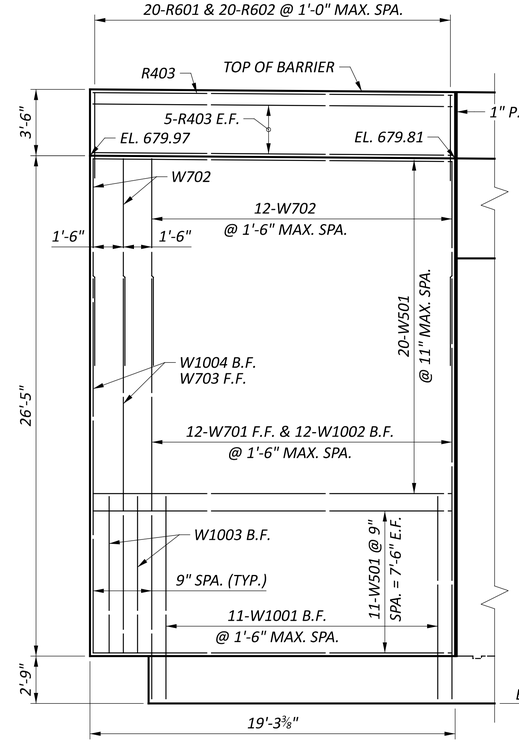
AESTHETIC GROOVE DETAILS



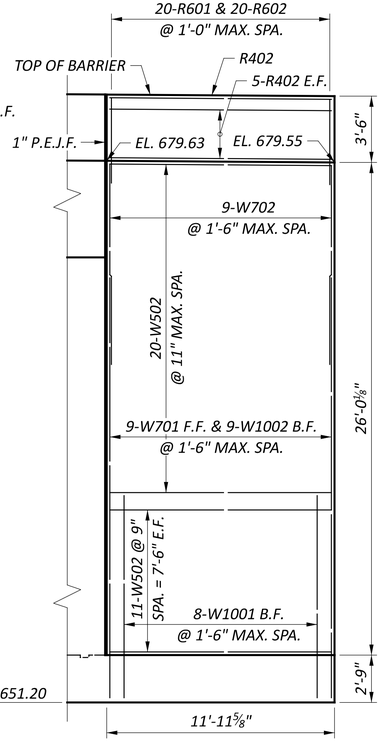
SECTION A-A



AESTHETIC ELEVATION DETAILS



NORTH WINGWALL ELEVATION



SOUTH WINGWALL ELEVATION

Preliminary Plans - For Reference Only

WEST WINGWALL DETAILS
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN	1806572
DESIGN AGENCY	TRC
DESIGNER	NMC
CHECKER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	20
TOTAL	25
SHEET	P.1154
TOTAL	P.1269

CUY-77-11.41 - PART 1

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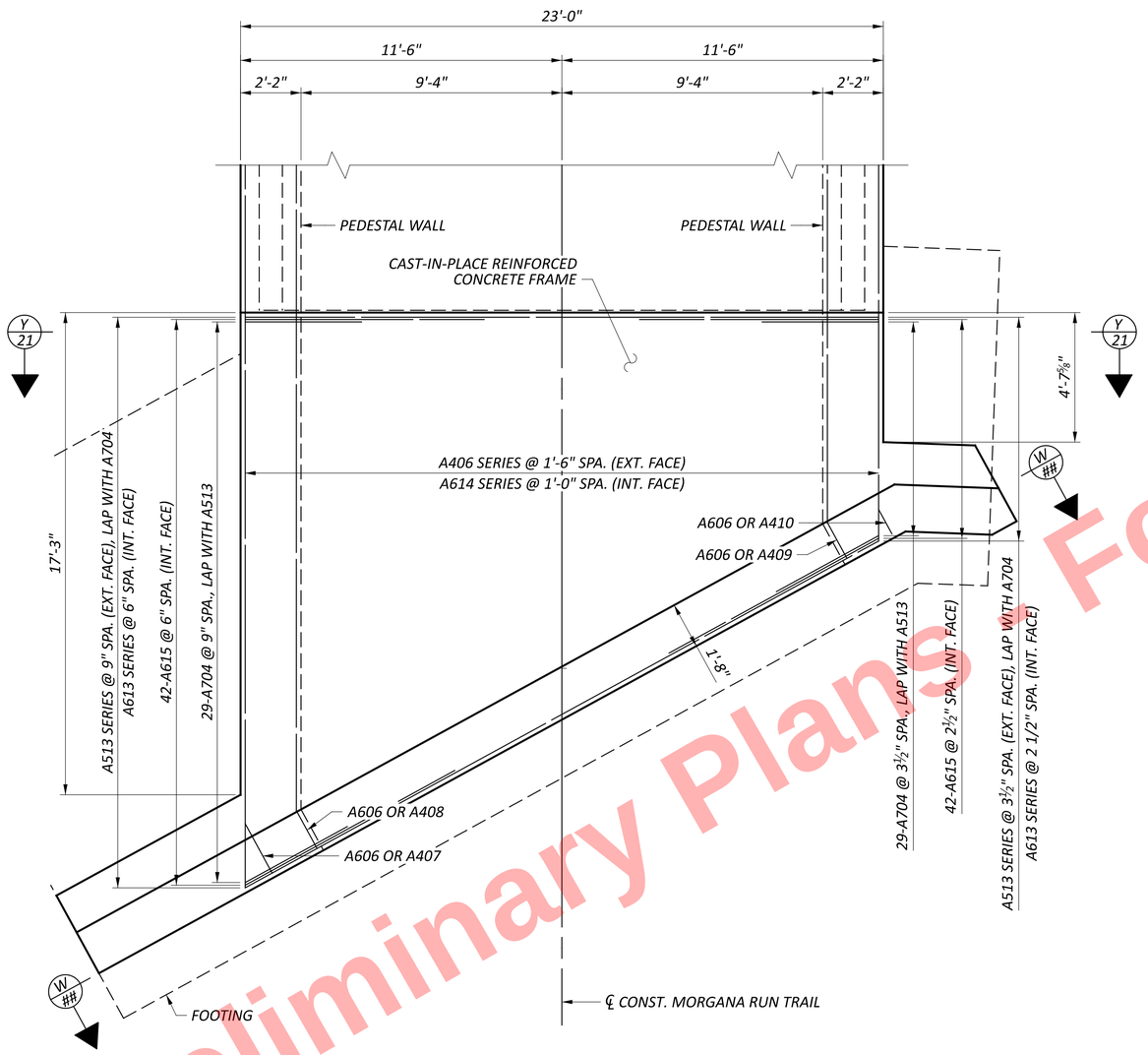
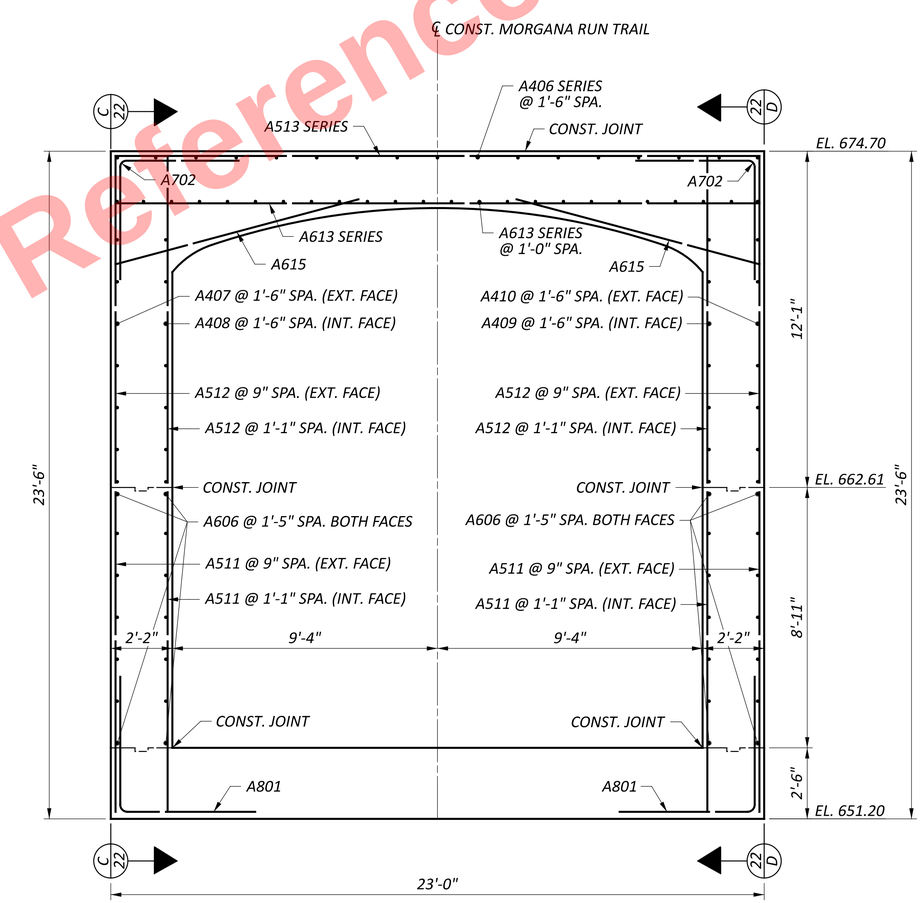


EAST END PORTAL PLAN



SECTION Y-Y

1. FOR SECTIONS C-C AND D-D, SEE SHEET 22/25.
2. FOR SECTION W-W, SEE SHEET ##/25.

Preliminary Plans - For Reference Only

EAST END PORTAL DETAILS
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN	1806572
DESIGN AGENCY	TRC
DESIGNER	NMC
CHECKER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	21
TOTAL	25
SHEET	P.1155
TOTAL	P.1269

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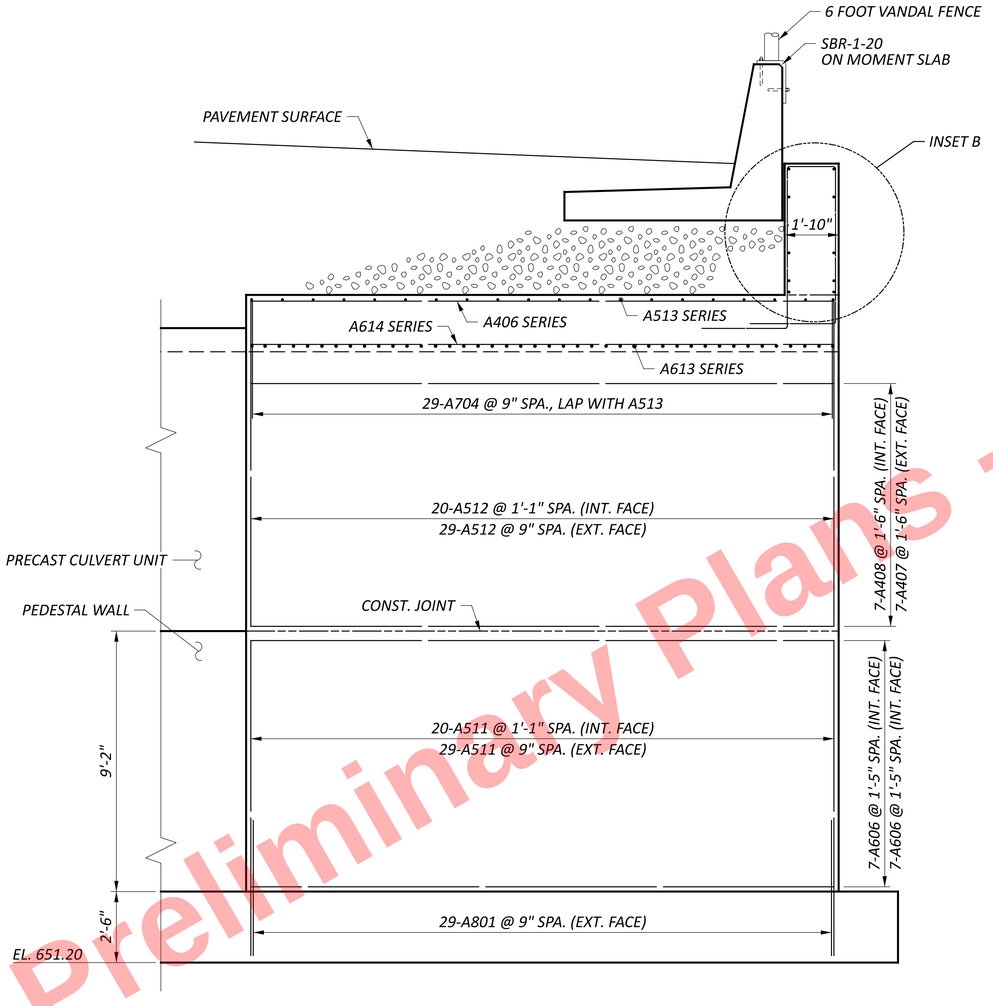
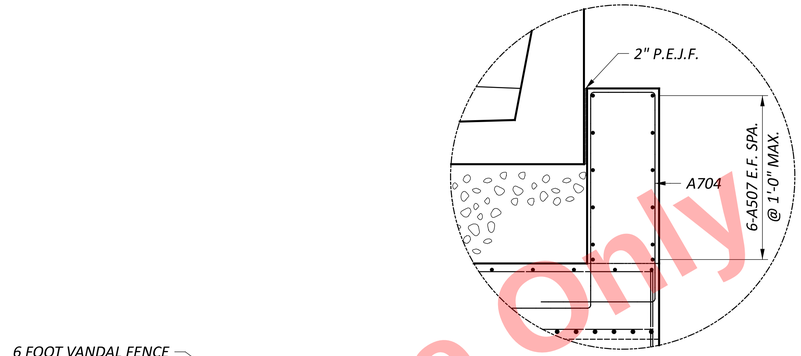
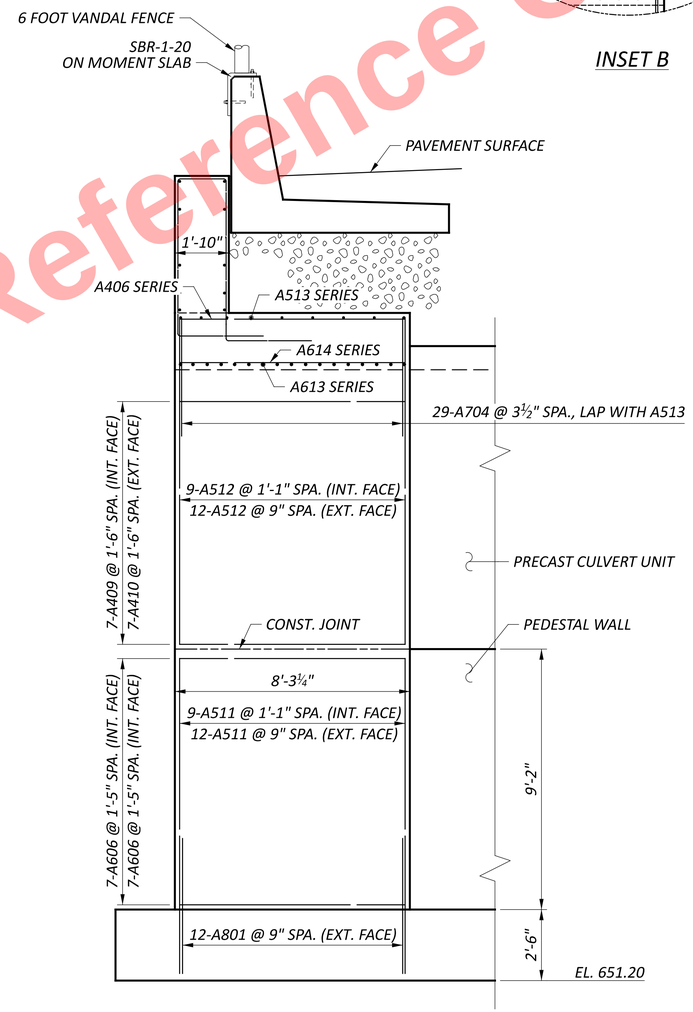
CUY-77-11.41 - PART 1



SECTION C-C



INSET B



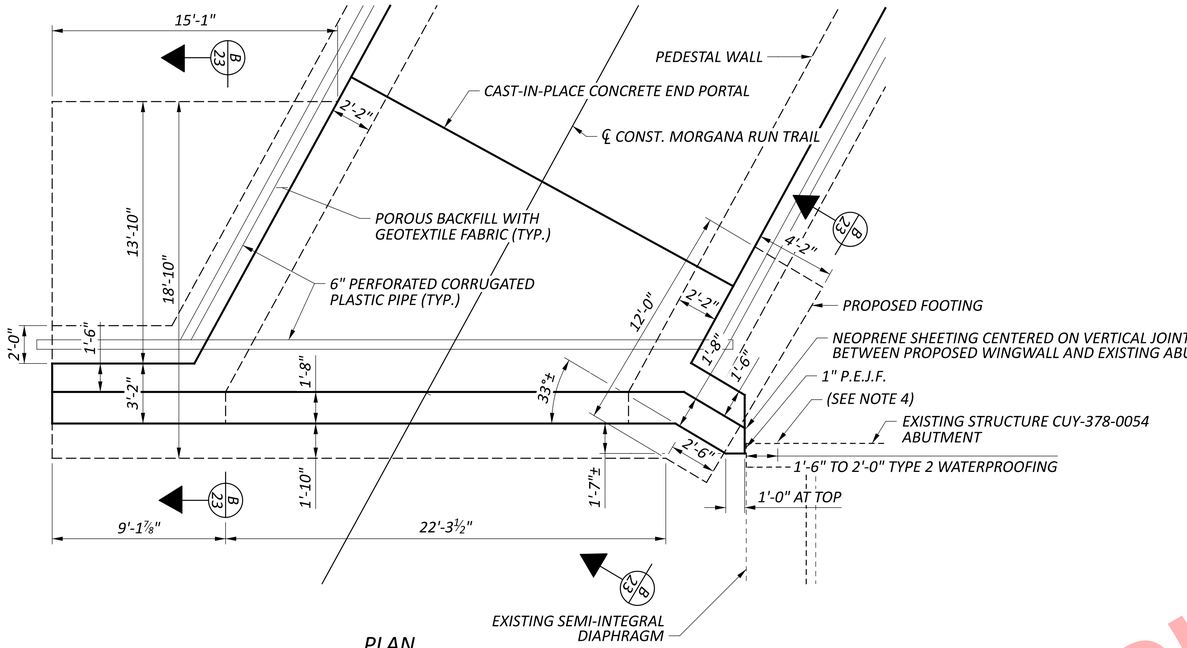
SECTION D-D

1. FOR LOCATION OF SECTIONS C-C AND D-D, SEE SHEET 21/24.

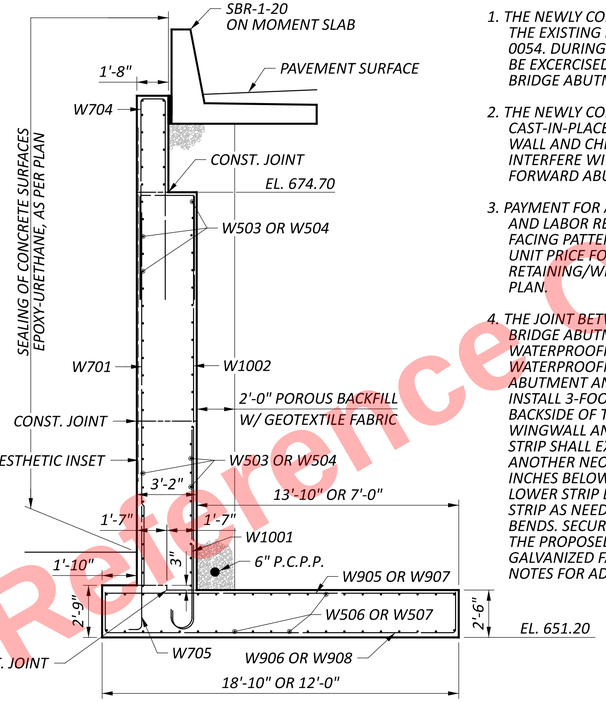
Preliminary Plans - For Reference Only

EAST END PORTAL DETAILS
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN 1806572
DESIGN AGENCY TRC
DESIGNER NMC | CHECKER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 22 | TOTAL 25
SHEET P.1156 | TOTAL P.1269



PLAN

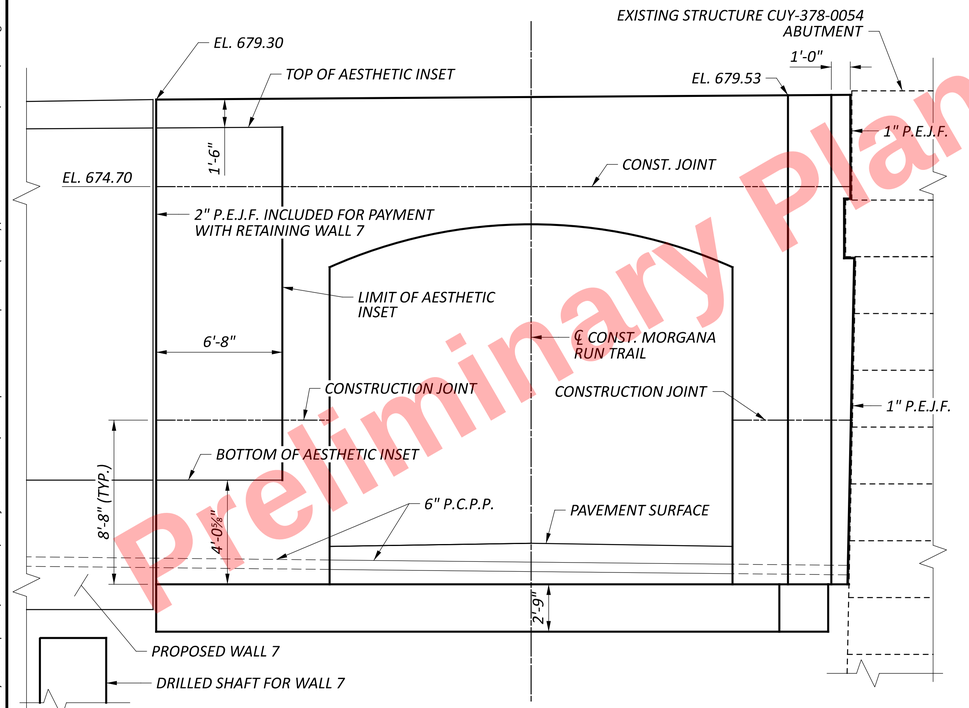


SECTION B-B

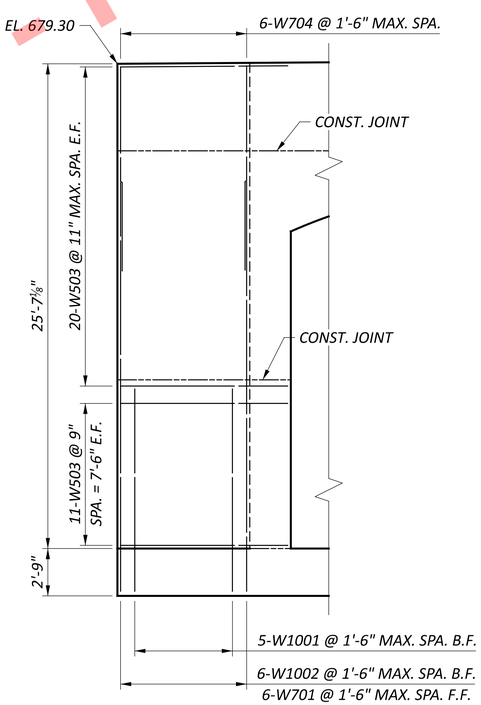
NOTES:

1. THE NEWLY CONSTRUCTED NORTH WINGWALL WILL ADJOIN THE EXISTING FORWARD ABUTMENT OF BRIDGE CUY-378-0054. DURING CONSTRUCTION OPERATIONS, CARE SHALL BE EXCERCISED TO PROTECT FROM DAMAGE THE ADJACENT BRIDGE ABUTMENT AND WINGWALL.
2. THE NEWLY CONSTRUCTED NORTH WINGWALL IS TO BE CAST-IN-PLACE AGAINST THE EXISTING ABUTMENT STONE WALL AND CHEEKWALL. THE WINGWALL SHALL NOT INTERFERE WITH MOVEMENT OF THE CUY-378-0054 FORWARD ABUTMENT SEMI-INTEGRAL DIAPHRAGM.
3. PAYMENT FOR ALL FORMWORK, MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO PRODUCE THE AESTHETIC WALL FACING PATTERN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 511, CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN.
4. THE JOINT BETWEEN PROPOSED WINGWALL AND EXISTING BRIDGE ABUTMENT SHALL BE SEALED BY PLACEMENT OF WATERPROOFING AND NEOPRENE SHEETING. APPLY TYPE A WATERPROOFING TO THE SURFACES OF STONE MASONRY ABUTMENT AND CONCRETE CHEEKWALL AS DETAILED. INSTALL 3-FOOT WIDE VERTICAL NEOPRENE SHEETS ON THE BACKSIDE OF THE JOINT BETWEEN THE PROPOSED WINGWALL AND EXISTING ABUTMENT. ONE NEOPRENE STRIP SHALL EXTEND THE HEIGHT OF THE WINGWALL STEM. ANOTHER NEOPRENE STRIP SHALL EXTEND DOWN FROM 6 INCHES BELOW THE TOP OF HEADWALL AND OVERLAP THE LOWER STRIP BY AT LEAST 18 INCHES. CUT THE NEOPRENE STRIP AS NEEDED TO COVER IRREGULAR SURFACES AND BENDS. SECURE THE NEOPRENE SHEETING TO CONCRETE OF THE PROPOSED HEADWALL OR WINGWALL STEM WITH GALVANIZED FASTENERS AND WASHERS. SEE THE GENERAL NOTES FOR ADDITIONAL INFORMATION.

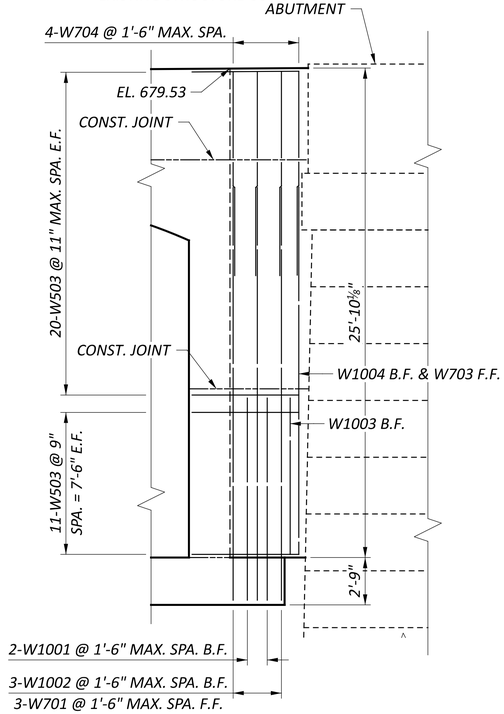
MINIMUM LAP LENGTHS	
NO. 7 BAR	4'-2"



ELEVATION



SOUTH WINGWALL ELEVATION



NORTH WINGWALL ELEVATION

Preliminary Plans - For Reference Only

EAST WINGWALL DETAILS
BRIDGE NO. CUY-77-1322 OVER ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN 1806572
DESIGN AGENCY TRC
DESIGNER NMC | CHECKER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 23 | TOTAL 25
SHEET P.1157 | TOTAL P.1269

CUY-77-11.41 - PART 1

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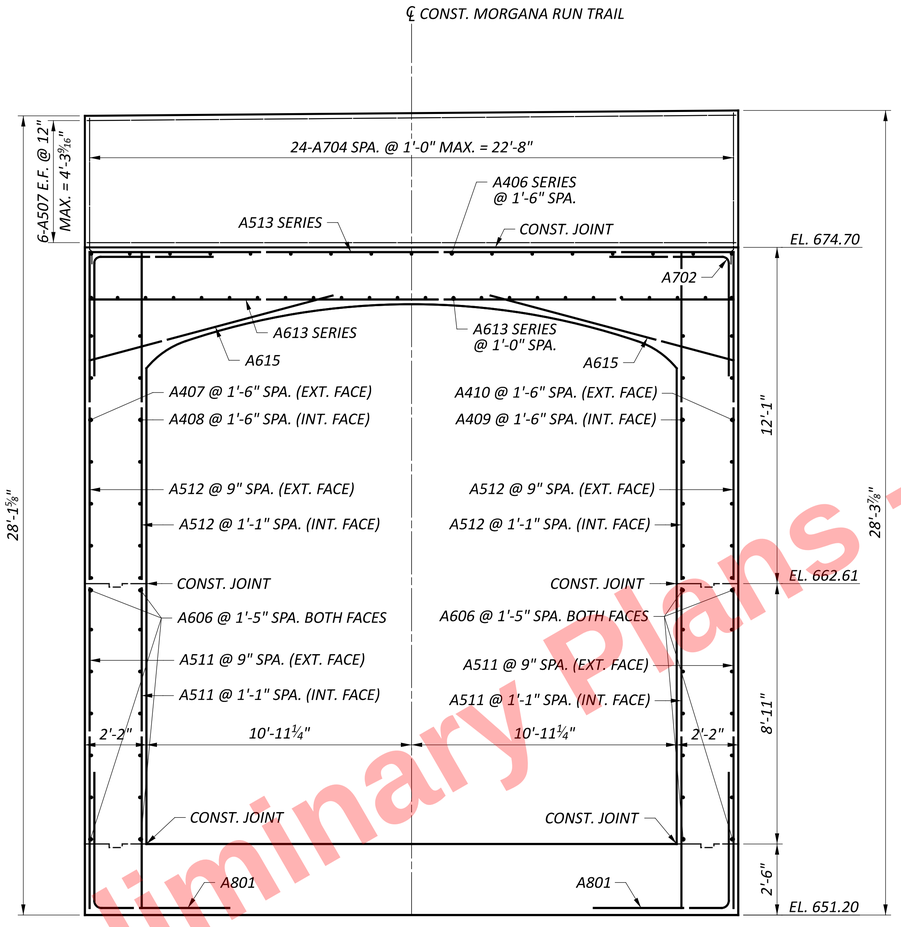
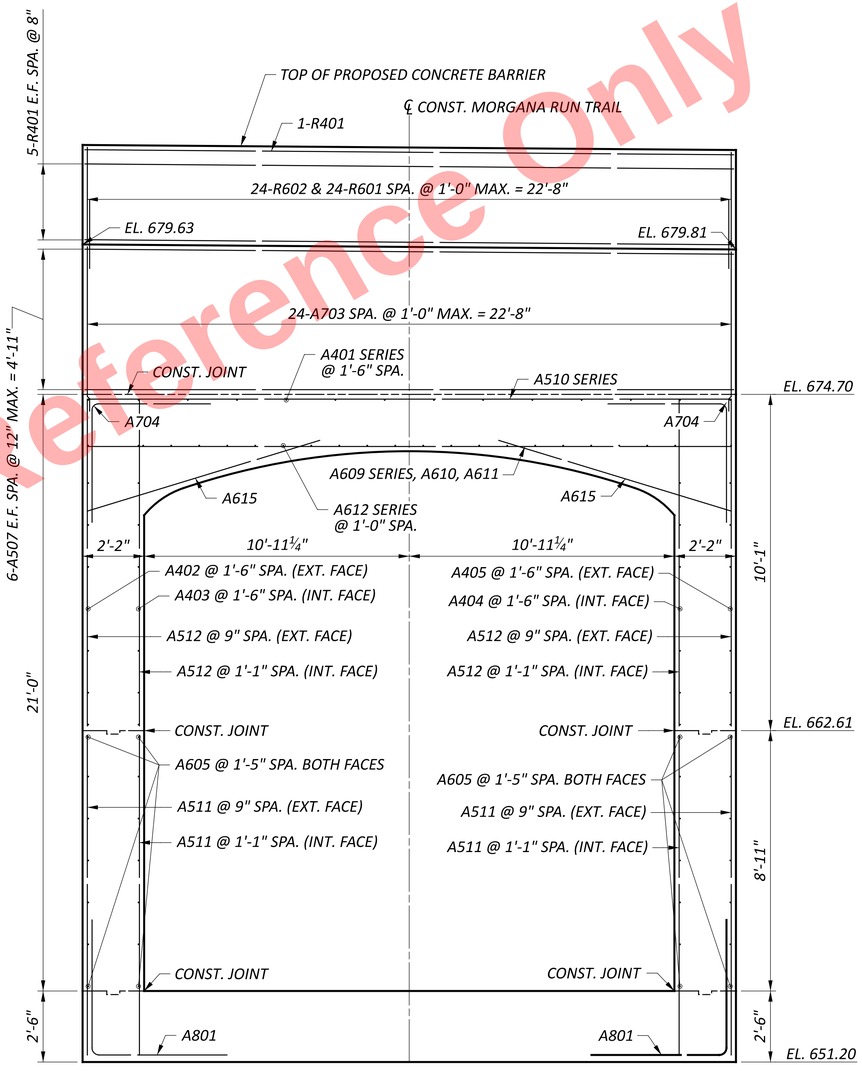
Preliminary Plans - For Reference Only



SECTION W-W



SECTION V-V

NOTES:

1. FOR LOCATION OF SECTION W-W, SEE SHEET 18/25.
2. FOR LOCATION OF SECTION V-V, SEE SHEET 21/25.

END PORTAL DETAILS
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN 1806572
DESIGN AGENCY TRC
DESIGNER NMC | CHECKER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 24 | TOTAL 25
SHEET P.1158 | TOTAL P.1269

CUY-77-11.41 - PART 1

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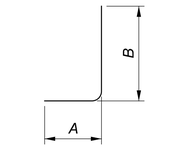
MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
CULVERT STRUCTURE											
	1 SR	9'-9"									
A401	OF	TO	181	STR							0'-9 ¼"
	17	22'-2"									
A402	13	22'-2"	192	STR							
A403	13	21'-2"	184	STR							
A404	13	10'-9"	93	STR							
A405	13	9'-9"	85	STR							
	1 SR	6'-6"									
A406	OF	TO	144	STR							0'-9 ¼"
	17	18'-10"									
A407	13	18'-10"	164	STR							
A408	13	17'-10"	155	STR							
A409	13	7'-5"	64	STR							
A410	13	6'-5"	56	STR							
A501	46	25'-10"	1239	STR							
A502	140	23'-1"	3371	STR							
A503	20	22'-8"	473	STR							
	1 SR	2'-1"									
A504	OF	TO	183	STR							1'-4 ½"
	15	21'-3"									
A505	2	25'-10"	54	STR							
	1 SR	2'-9"									
A506	OF	TO	145	STR							1'-11 ¾"
	11	22'-6"									
A507	12	22'-8"	284	STR							
A601	170	30'-0"	7660	STR							
A602	34	11'-6"	587	STR							
A603	76	22'-8"	2587	STR							
A604	228	8'-5"	2882	1	2'-9"	5'-10"					
A605	128	30'-0"	5768	STR							
A606	32	6'-7"	316	STR							
A607	228	18'-8"	6393	2	8'-7"	1'-10"	8'-7"				
A608	33	22'-8"	1123	STR							
	1 SR	1'-2"									
A609	OF	TO	421	STR							0'-11"
	24	22'-2"									
A610	2	25'-10"	78	STR							
	1 SR	9'-9"									
A611	OF	TO	575	STR							0'-6 ½"
	24	22'-2"									
	1 SR	1'-6"									
A612	OF	TO	433	STR							0'-11"
	24	22'-6"									
	1 SR	6'-5"									
A613	OF	TO	455	STR							0'-6 ½"
	24	18'-10"									
A701	247	25'-10"	13042	STR							
A702	88	8'-2"	1469	1	4'-2"	4'-2"					
A703	194	22'-8"	8988	STR							
A704	24	17'-11"	879	30	3'-0"	1'-6"	5'-8"	5'-6"			
A703	194	22'-8"	8988	STR							
A801	324	10'-6"	9083	1	3'-8"	7'-1"					
SUB-TOTAL			78,794								

MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
WINGWALL STEM AND FOOTINGS											
W501	62	18'-11"	1223	STR							
W502	62	11'-8"	754	STR							
W503	62	8'-10"	571	STR							
W504	62	5'-8"	366	STR							
W505	2	6'-5"	13	STR							
W506	40	16'-9"	699	STR							
W507	26	5'-10"	158	STR							
W508	40	24'-9"	1033	STR							
W509	42	13'-9"	602	STR							
W701	30	22'-2"	1359	1	21'-8"	0'-8"					
W702	23	22'-3"	1046	2	10'-7"	1'-6"	10'-7"				
W703	3	22'-7"	138	1	19'-9"	3'-0"					
W704	10	22'-1"	451	2	10'-7"	1'-4"	10'-7"				
W901	31	18'-6"	1950	STR							
W902	31	22'-1"	2328	2	2'-1"	18'-6"	2'-1"				
W903	17	20'-0"	1156	STR							
W904	17	23'-7"	1363	2	2'-1"	20'-0"	2'-1"				
W905	21	18'-6"	1321	STR							
W906	21	22'-1"	1577	2	2'-1"	18'-6"	2'-1"				
W907	7	11'-8"	278	STR							
W908	11	15'-3"	570	2	2'-1"	11'-8"	2'-1"				
W1001	26	13'-4"	1492	16	11'-11"						
W1002	30	27'-8"	3571	16	26'-3"						
W1003	3	8'-3"	106	STR							
W1004	3	19'-9"	255	STR							
SUB-TOTAL			24380								

MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
BARRIER											
R401	11	22'-8"	167	STR							
R402	11	11'-8"	86	STR							
R403	11	18'-11"	139	STR							
R601	57		0	37	0'-9"	0'-9 ½"	1'-5"	1'-0"	0'-7"		
R602	57	5'-8"	339	23	0'-6"	3'-3"	3'-3"			0'-2"	
SUB-TOTAL			731								



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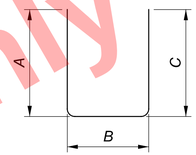

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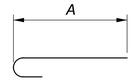

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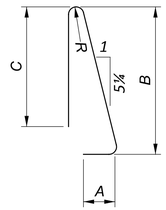

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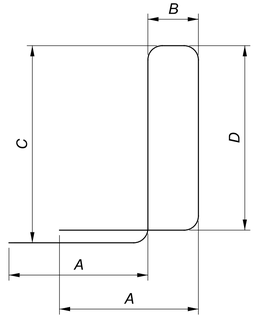

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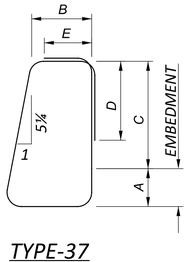

TYPE-37

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.
2. ALL REINFORCING STEEL TO BE EPOXY COATED.
3. SERIES BARS - BAR LENGTHS VARY BY TABULATED INCREMENT.

Preliminary Plans - For Reference Only

REINFORCING STEEL LIST
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN 1806572
DESIGN AGENCY TRC
DESIGNER NMC | CHECKER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 25 | TOTAL 25
SHEET P.1159 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:57:10 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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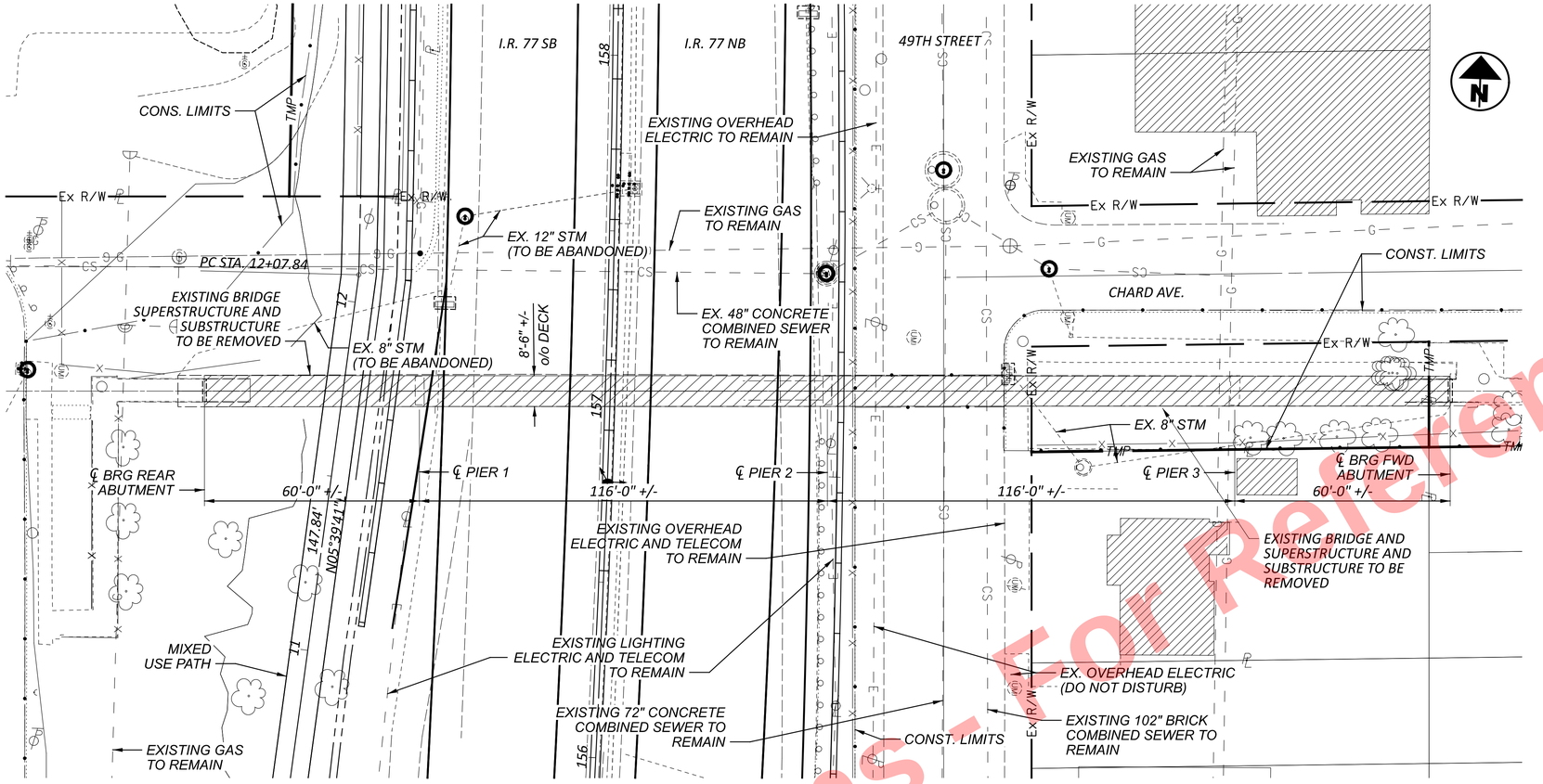

PLAN

NOTES:

1. *THE EXISTING BRIDGE SUPERSTRUCTURE AND SUBSTRUCTURE UNITS SHALL BE REMOVED PER CMS 202.03. REMOVAL OPERATIONS MAY BE PERFORMED IN MULTIPLE STAGES COORDINATED WITH CONSTRUCTION AND MOT PHASES. REFER TO MAINTENANCE OF TRAFFIC PLANS FOR THE SCHEDULE AND CONFIGURATION OF TEMPORARY TRAFFIC LANES.*
2. *REMOVAL OF APPROACH RETAINING WALLS, WALKWAYS, RAMPS, STAIRS, RAILINGS AND OTHER PEDESTRIAN FACILITIES IS INCLUDED IN ROADWAY QUANTITIES FOR PAYMENT. REFER TO RECORD PLANS OF BRIDGE CUY-77-1297 FOR TYPICAL SECTIONS AND SUBSTRUCTURE DETAILS.*

LEGEND

LIMITS OF EXISTING STRUCTURE REMOVAL

SEE ROADWAY SHEETS FOR PROPOSED GRADING AT ABUTMENTS.

EXISTING STRUCTURE

TYPE: CONTINUOUS STEEL WELDED GIRDERS WITH REINFORCED CONCRETE DECK

SPANS: 60'-116'-116'-60'
WALKWAY: 7'-6" CLEAR
LOADING: 85 PSF (LIVE LOAD)
SKEW: NONE
WEARING SURFACE: 1" MONOLITHIC CONCRETE
APPROACH SLABS: 6'-10" LONG
ALIGNMENT: TANGENT
STRUCTURE FILE NUMBER: 1806548
DATE BUILT: 1975
DISPOSITION: TO BE REMOVED

ESTIMATED QUANTITIES (CUY-77-1297)

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
202	11002	LS		STRUCTURE REMOVED, OVER 20 FOOT SPAN	

Preliminary Plans - Not For Reference Only

GENERAL PLAN
BRIDGE NO. CUY-77-1297 CHARD AVE. PEDESTRIAN BRIDGE OVER IR-77

DESIGN AGENCY TRC
DESIGNER LAB
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 1 TOTAL 1
SHEET P.1160 TOTAL P.1269

CUY-77-11.41 - PART 1

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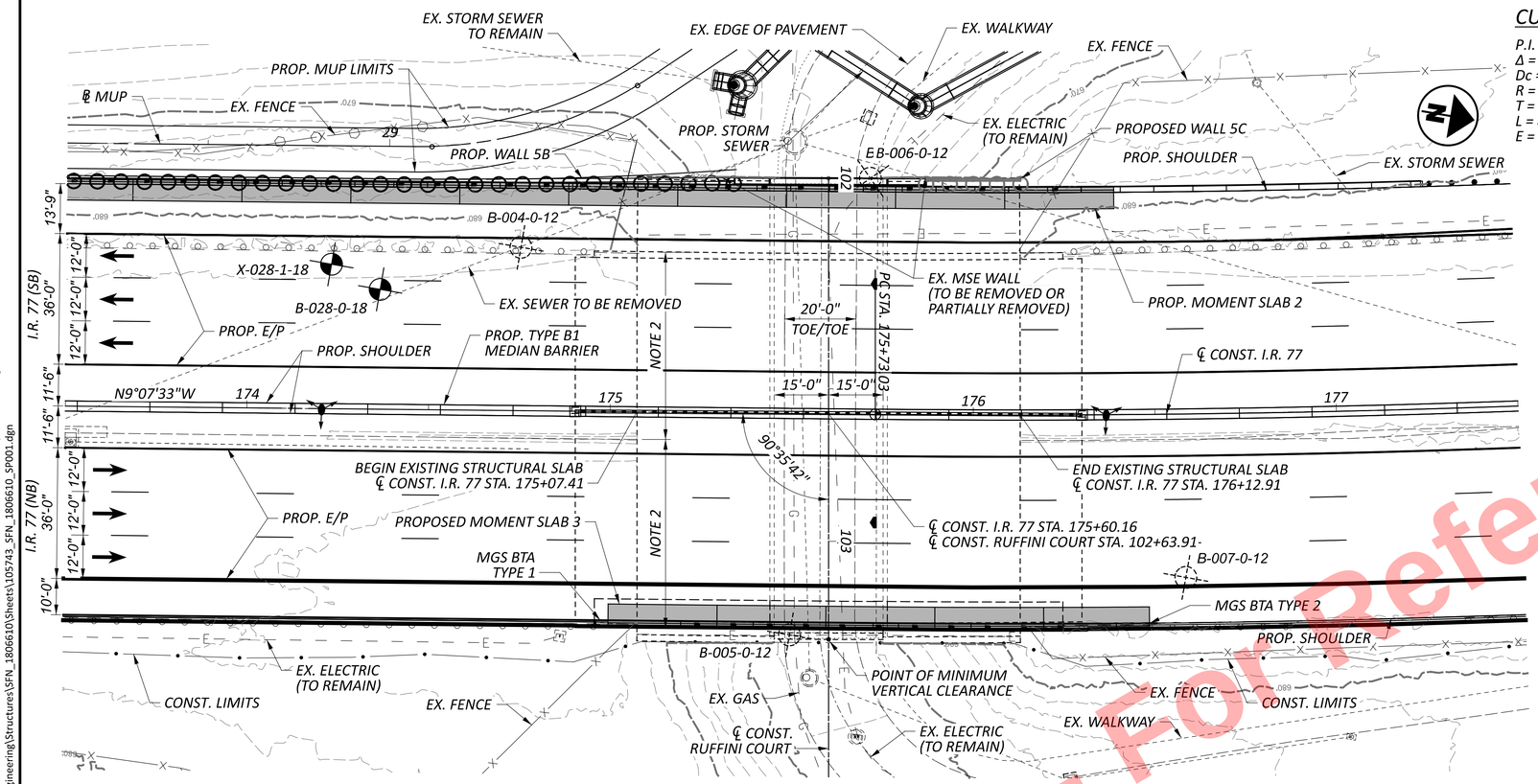
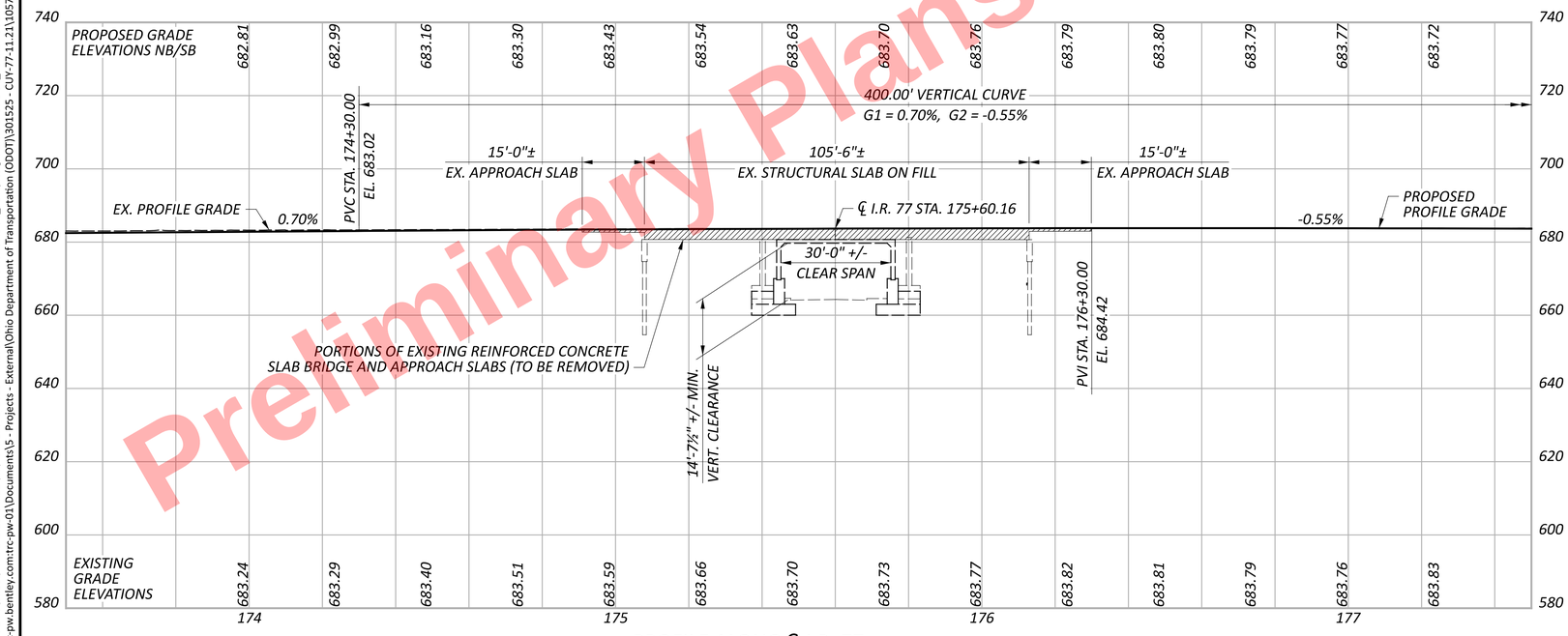


PLAN



PROFILE ALONG ℄ I.R. 77

CURVE DATA I.R. 77

P.I. = STA. 179+84.25
Δ = 12°17'21" LT
Dc = 01°30'00"
R = 3,819.72'
T = 411.22'
L = 819.28'
E = 22.07'

BENCHMARK DATA

BM #1 STA.	,	ELEV.	,	OFFSET	,
BM #2 STA.	,	ELEV.	,	OFFSET	,
BM #3 STA.	,	ELEV.	,	OFFSET	,
BM #4 STA.	,	ELEV.	,	OFFSET	,

FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLANS.

NOTES

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. EXISTING STRUCTURAL DECK SLAB TO BE REMOVED. WIDTH VARIES 51'-6"+/- TO 51'-8½"+/-.

DESIGN TRAFFIC:
2043 ADT = 126,000 2043 ADTT = 7,560
DIRECTIONAL DISTRIBUTION = 52%

LEGEND

- BORING OR PAVEMENT CORING LOCATION
- HISTORIC BORING LOCATION

PROPOSED WORK

REPLACE EXISTING WEST MSE WINGWALLS AND HEADWALLS WITH CAST-IN-PLACE REINFORCED CONCRETE. REMOVE PORTIONS OF ORIGINAL REINFORCED CONCRETE SLAB BRIDGE.

EXISTING STRUCTURE

TYPE: PRECAST REINFORCED 3-SIDED CONCRETE BOX FOUNDED ON CAST-IN-PLACE REINFORCED CONCRETE SPREAD FOOTINGS (ORIGINAL THREE-SPAN REINFORCED CONCRETE SLAB AND APPROACH SLABS LEFT IN PLACE)

SPANS: 30'-0" F/F WALL
ROADWAY: 20'-0"±
LOADING: HL-93 AND DESIGN TANDEM
SKEW: 0°-27'-00"
WEARING SURFACE: ASPHALT OVERLAY
APPROACH SLABS: 15' LONG (AS-1-67)
ALIGNMENT: TANGENT
SUPELEVATION: VARIES
STRUCTURE FILE NUMBER: 1806610
DATE BUILT: 2016
DISPOSITION: TO BE MODIFIED

PROPOSED STRUCTURE

TYPE: PRECAST REINFORCED 3-SIDED CONCRETE BOX FOUNDED ON CAST-IN-PLACE REINFORCED CONCRETE SPREAD FOOTINGS WITH NEW WEST WINGWALLS AND HEADWALLS

SPANS: 30'-0" F/F WALL
ROADWAY: 20'-0"±
LOADING: HL-93 AND 60 PSF FUTURE WEARING SURFACE
SKEW: 0°-27'-00"
WEARING SURFACE: ASPHALT
APPROACH SLABS: NONE
ALIGNMENT: TANGENT
SUPERELEVATION: VARIES
DECK AREA: NONE
COORDINATES: LATITUDE N41°-27'-54"
LONGITUDE W81°-39'-28"

SITE PLAN
BRIDGE NO. CUY-77-1331
OVER RUFFINI COURT

SFN	1806610
DESIGN AGENCY	TRC
DESIGNER	LAB
CHECKER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	1
TOTAL	12
SHEET	P.1161
TOTAL	P.1269

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 10TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN DATA

CONCRETE CLASS QC1, COMPRESSIVE STRENGTH 4.0 KSI (HEADWALL)
EPOXY COATED REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI

OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN LOADING

VEHICULAR DESIGN LOAD: HL-93
FUTURE WEARING SURFACE (FWS): 0.060 KSF
LIVE LOAD SURCHARGE: 2 FEET OF 125 PCF OVERBURDEN

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05 AND 105.02. BASE CONTRACT BID PRICES UPON RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN

DESCRIPTION: THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE DEPARTMENT WILL NOT PERMIT THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS. DO NOT BEGIN WORK UNTIL THE ENGINEER ACCEPTS THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

REMOVAL OF THE EXISTING MSE WALLS MUST INCLUDE, AT MINIMUM, THE CONCRETE LEVELING PADS, WALL FACING PANELS, COPING, AND PAVED GUTTER. THE CONTRACTOR MAY REMOVE PORTIONS OF THE REINFORCED CELLULAR CONCRETE BACKFILL BEHIND THE WALL FACING AS NEEDED FOR PROPOSED CONSTRUCTION OF THE BRIDGE AND THE ADJACENT RETAINING WALLS 5B AND 5C. ALTERNATIVELY, THE CONTRACTOR MAY REMOVE THE ENTIRETY OF THE MSE BACKFILL AND REINFORCEMENT. NO ADDITIONAL COST WILL BE PAID FOR EITHER OPTION. ANY EXCAVATION OF EXISTING EMBANKMENT REQUIRED TO PERFORM THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE STRUCTURE REMOVAL.

REMOVAL METHODS: THE CONTRACTOR MAY REMOVE CONCRETE BY CUTTING AND BY MEANS OF HAND OPERATED PNEUMATIC HAMMERS EMPLOYING POINTED OR BLUNTED CHISEL TYPE TOOLS. FOR REMOVALS OVER STRUCTURAL MEMBERS (CONCRETE FRAMES UNITS), THE CONTRACTOR MAY USE A HAMMER HEAVIER THAN 35 POUNDS BUT NOT TO EXCEED 90 POUNDS UNLESS APPROVED BY THE ENGINEER. REPLACE OR REPAIR STRUCTURAL MEMBERS DAMAGED BY THE REMOVAL OPERATIONS AT NO COST TO THE PROJECT.

AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE ENGINEER. OBTAIN THE ENGINEER'S APPROVAL BEFORE PERFORMING REPAIR.

MEASUREMENT & PAYMENT: THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

ADHESIVE ANCHOR / DOWELS SYSTEMS

INSTALL ADHESIVE ANCHORS/DOWELS ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PUBLISHED IN THE ICC-ES REPORTS LISTED BELOW.

THE HOLES FOR THE ADHESIVE ANCHORS SHALL BE DRILLED WITH A HAMMER DRILL AND CARBIDE BIT PRIOR TO THE INSTALLATION OF THE ANCHORS, CLEAN AND DRY THE HOLES IN A MANNER CONSISTENT WITH THE MANUFACTURER'S REQUIREMENTS FOR DRY CONCRETE.

http://icc-es.org/evaluation-report-program/reports-directory/

SELECT FROM ONE OF THE FOLLOWING APPROVED PRODUCTS:

CHEMOFAST STVK - ICC-ES ELC-2539
HILTI HIT-RE 500 V3 - ICC-ES ELC 3814

FACTORED ANCHOR/DOWEL LOADS:
TENSION = 45 KIPS (A801 DOWELS)
SHEAR = 7 KIPS (A801 DOWELS)

THE CONTRACTOR MAY USE A SUBSTITUTE ADHESIVE ANCHOR/DOWEL SYSTEM THAT MEETS THE ACCEPTANCE CRITERIA OF ICEES AC308 - POST INSTALLED ADHESIVE ANCHORS IN CONCRETE ELEMENTS. THE SUBSTITUTE ANCHORS SHALL MEET OR EXCEED THE CAPACITY OF THE ADHESIVE ANCHOR/DOWEL SYSTEMS LISTED ABOVE.

ADHESIVE ANCHORS/DOWELS SHALL NOT BE SUBSTITUTED WITH MECHANICAL ANCHORS.

THE CONTRACTOR SHALL SUPPLY DOCUMENTATION SEALED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER ENSURING THAT THE SUBSTITUTE ADHESIVE ANCHOR/DOWEL SYSTEM PROVIDES SUFFICIENT CAPACITY FOR THIS APPLICATION IN ACCORDANCE WITH AASHTO LRFD SECTION 5.13. INSTALL THE ANCHORS ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PUBLISHED IN THE ICC-ES REPORT.

DOWELS WITH ADHESIVE ANCHORS ARE QUANTIFIED UNDER ITEM 510 - DOWEL HOLES WITH CEMENT GROUT, AS PER PLAN.

THE CONTRACTOR SHALL SUPPLY DOCUMENTATION SEALED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER ENSURING THAT THE SUBSTITUTE ADHESIVE ANCHOR/DOWEL SYSTEM PROVIDES SUFFICIENT CAPACITY FOR THIS APPLICATION IN ACCORDANCE WITH AASHTO LRFD SECTION 5.13. INSTALL THE ANCHORS ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PUBLISHED IN THE ICC-ES REPORT.

CONSTRUCTION SEQUENCE

PHASE 1A, 1B AND 1C:
1. MAINTAIN TRAFFIC ON EXISTING STRUCTURE AS SHOWN.
2. REMOVE PORTIONS OF EXISTING STRUCTURE AS SHOWN.
3. CONSTRUCT WESTERN PORTION OF EMBANKMENT, ROADWAY PAVEMENT AND MOMENT SLAB.

PHASE 2:
1. MAINTAIN TRAFFIC ON EXISTING STRUCTURE AS SHOWN.
2. REMOVE PORTIONS OF EXISTING STRUCTURE AS SHOWN.
3. CONSTRUCT CENTER PORTION EMBANKMENT AND ROADWAY PAVEMENT.

PHASE 3A, 3B AND 3C:
1. MAINTAIN TRAFFIC ON EXISTING STRUCTURE AS SHOWN.
2. REMOVE PORTIONS OF EXISTING STRUCTURE AS SHOWN.
3. CONSTRUCT EASTERN PORTION OF EMBANKMENT, ROADWAY PAVEMENT AND MOMENT SLAB.

ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRG. - BEARINGS

℄ - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

Preliminary Plans - Not For Reference Only

GENERAL NOTES
BRIDGE NO. CUY-77-1331
OVER RUFFINI COURT

SFN 1806610
DESIGN AGENCY TRC
DESIGNER LAB | CHECKER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 2 | TOTAL 12
SHEET P.1162 | TOTAL P.1269

CUY-77-11.41 - PART 1
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ESTIMATED QUANTITIES (CUY-77-1331)

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	2
202	22900	240	SY	APPROACH SLAB REMOVED	
509	10000	3183	LB	EPOXY COATED STEEL REINFORCEMENT	
509	25000	774	LB	UNCOATED STEEL REINFORCEMENT	
510	09951	40	EACH	DOWEL HOLES WITH CEMENT GROUT, AS PER PLAN	2
510	10000	62	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
511	46613	39	CY	CLASS QC1 CONCRETE WITH QC/QA, HEADWALL, AS PER PLAN	10
512	10101	66	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	2
512	33000	10	SY	TYPE 2 WATERPROOFING	
516	13600	54	SF	1" PREFORMED EXPANSION JOINT FILLER	
516	13901	78	SF	2" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN	11
518	20000	27	SY	PREFABRICATED GEOCOMPOSITE DRAIN	
518	21200	3	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
518	40000	16	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
518	40012	6	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE	

Preliminary Plans - For Reference Only

ESTIMATED QUANTITIES
BRIDGE NO. CUY-77-1331
OVER RUFFINI COURT

SFN 1806610
DESIGN AGENCY TRC
DESIGNER LAB | CHECKER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 3 | TOTAL 12
SHEET P.1163 | TOTAL P.1269

CUY-77-11.41 - PART 1

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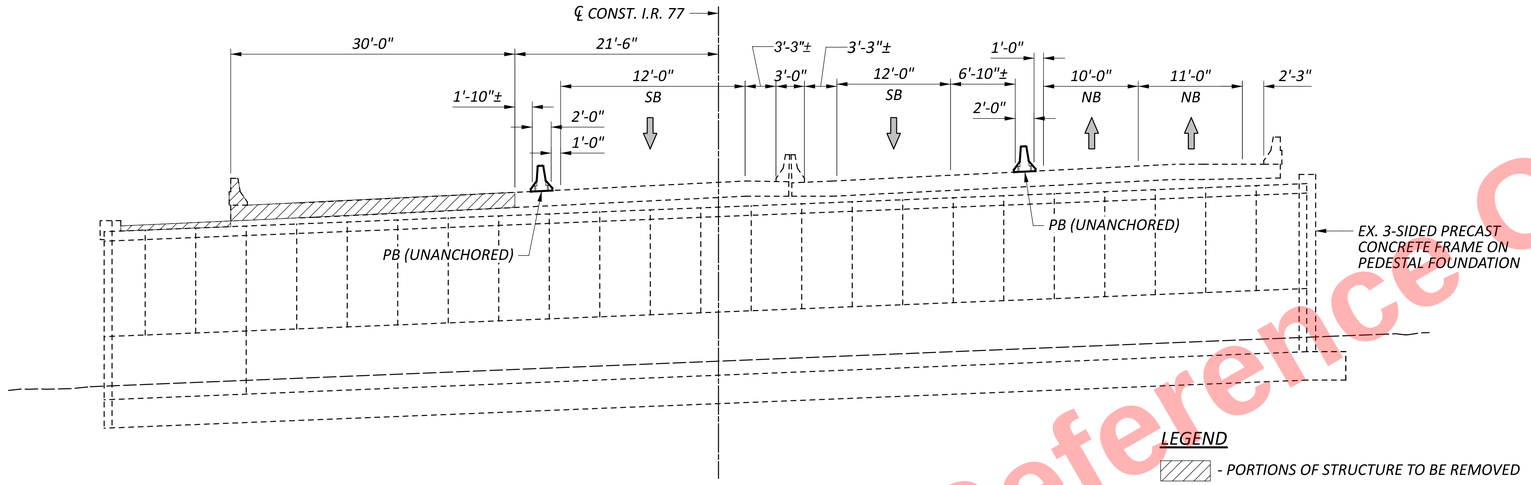
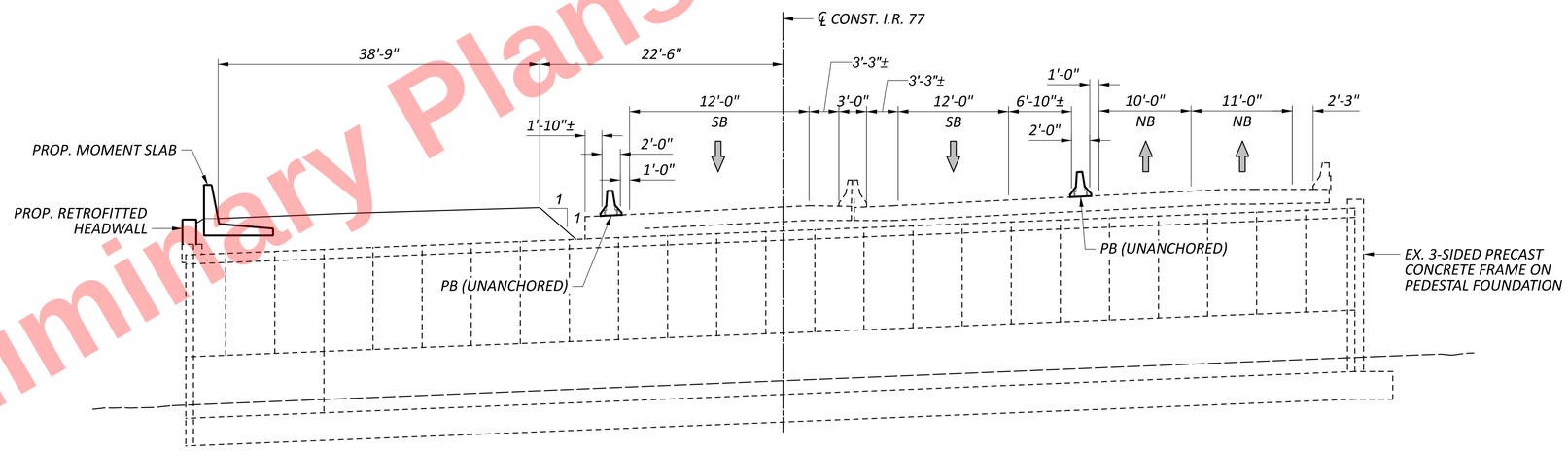


PHASE 1A, 1B, & 1C

DIMENSIONS NORMAL TO ℄ CONST. I.R. 77



PHASE 1A, 1B, & 1C

DIMENSIONS NORMAL TO ℄ CONST. I.R. 77

Preliminary Plans - For Reference Only

CUY-77-11.41 - PART 1

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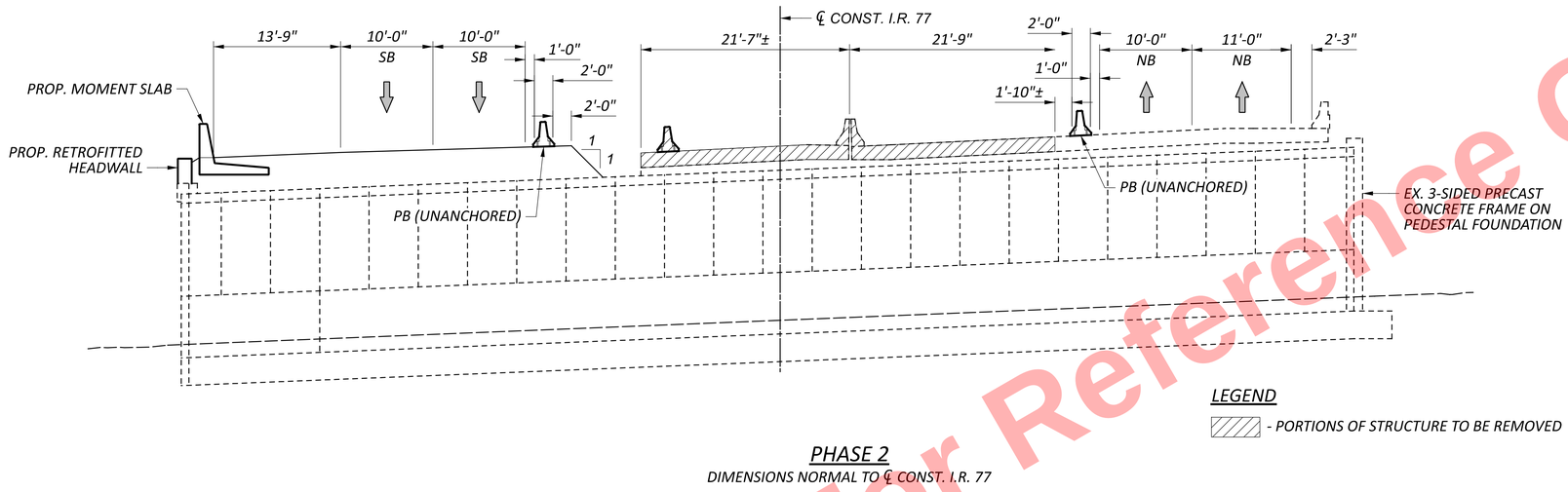
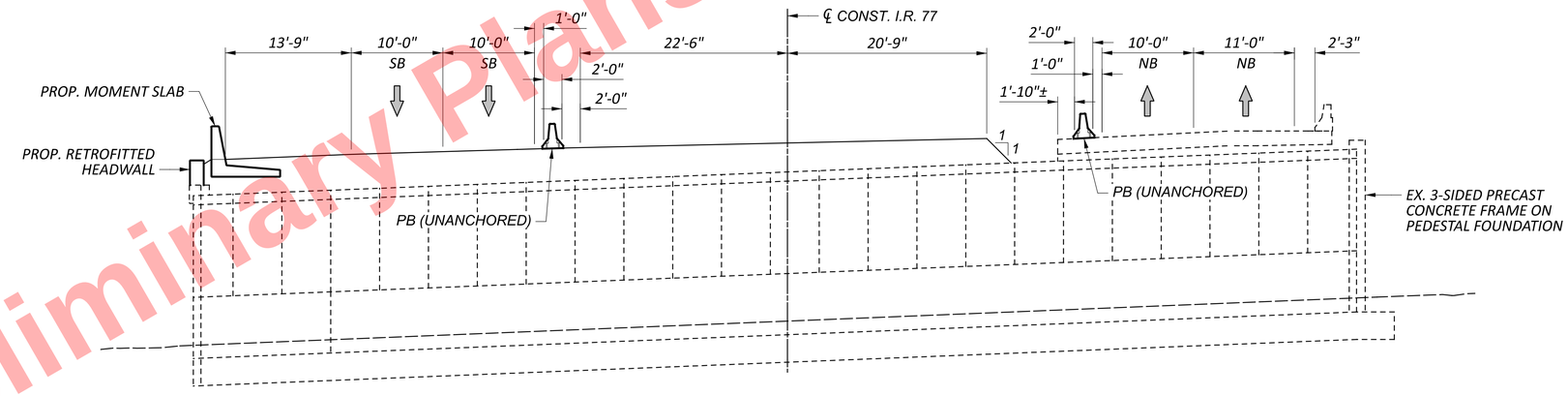
PHASED CONSTRUCTION DETAILS
BRIDGE NO. CUY-77-1331
OVER RUFFINI COURT

SFN	1806610
DESIGN AGENCY	TRC
DESIGNER	LAB
CHECKER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	4
TOTAL	12
SHEET	P.1164
TOTAL	P.1269



PHASE 2

DIMENSIONS NORMAL TO ℄ CONST. I.R. 77



PHASE 2

DIMENSIONS NORMAL TO ℄ CONST. I.R. 77

Preliminary Plans - For Reference Only

PHASED CONSTRUCTION DETAILS
BRIDGE NO. CUY-77-1331
OVER RUFFINI COURT

SFN 1806610

DESIGN AGENCY TRC

DESIGNER	CHECKER
LAB	CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET	TOTAL
5	12

SHEET	TOTAL
P.1165	P.1269

CUY-77-11.41 - PART 1

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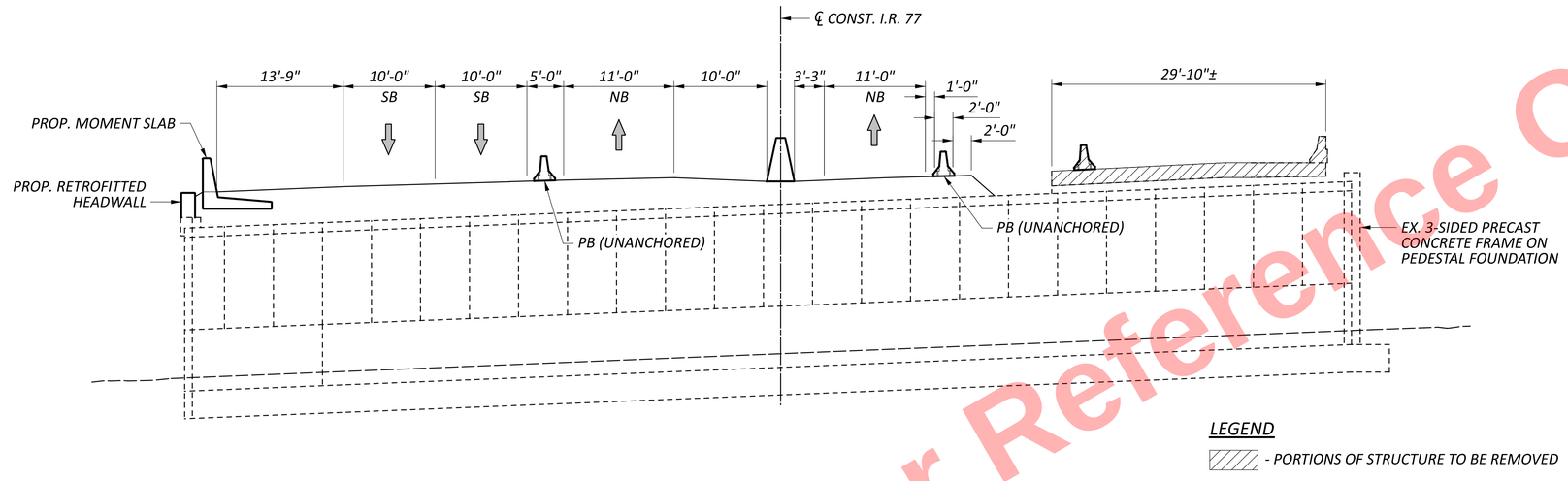
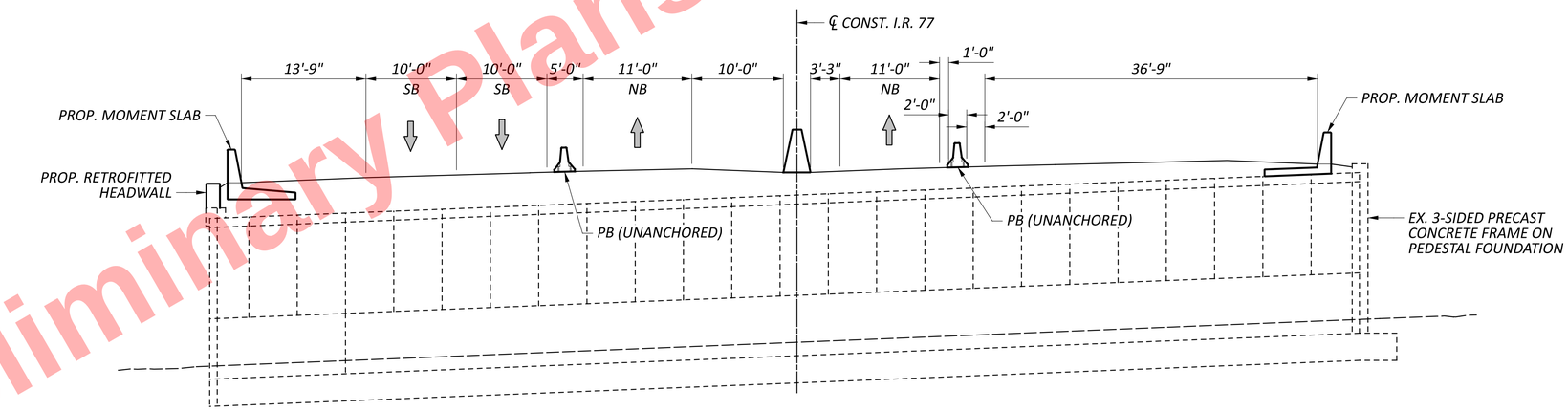


PHASE 3A, 3B, & 3C

DIMENSIONS NORMAL TO ℄ CONST. I.R. 77



PHASE 3A, 3B, & 3C

DIMENSIONS NORMAL TO ℄ CONST. I.R. 77

Preliminary Plans - For Reference Only

PHASED CONSTRUCTION DETAILS
BRIDGE NO. CUY-77-1331
OVER RUFFINI COURT

SFN 1806610

DESIGN AGENCY TRC

DESIGNER	CHECKER
LAB	CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET	TOTAL
6	12

SHEET	TOTAL
P.1166	P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:58:44 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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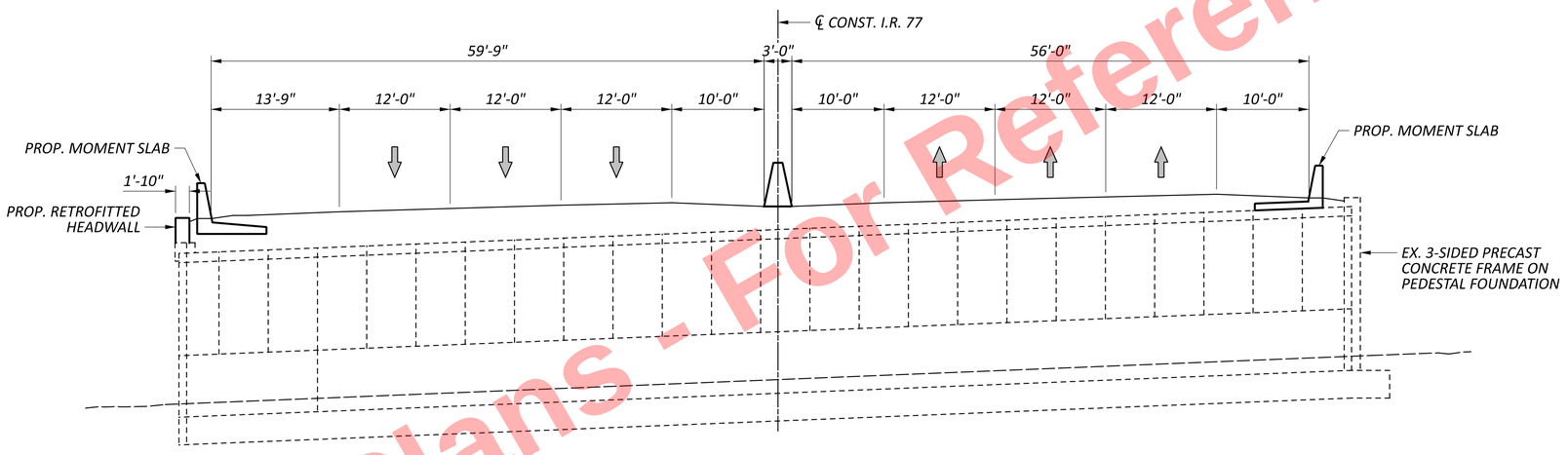

FINAL

DIMENSIONS NORMAL TO ℄ CONST. I.R. 77

Preliminary Plans - For Reference Only

PHASED CONSTRUCTION DETAILS
BRIDGE NO. CUY-77-1331
OVER RUFFINI COURT

SFN 1806610

DESIGN AGENCY TRC

DESIGNER	CHECKER
LAB	CEJ

REVIEWER CJW 11/17/25

PROJECT ID 105743

SUBSET	TOTAL
7	12

SHEET	TOTAL
P.1167	P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:58:52 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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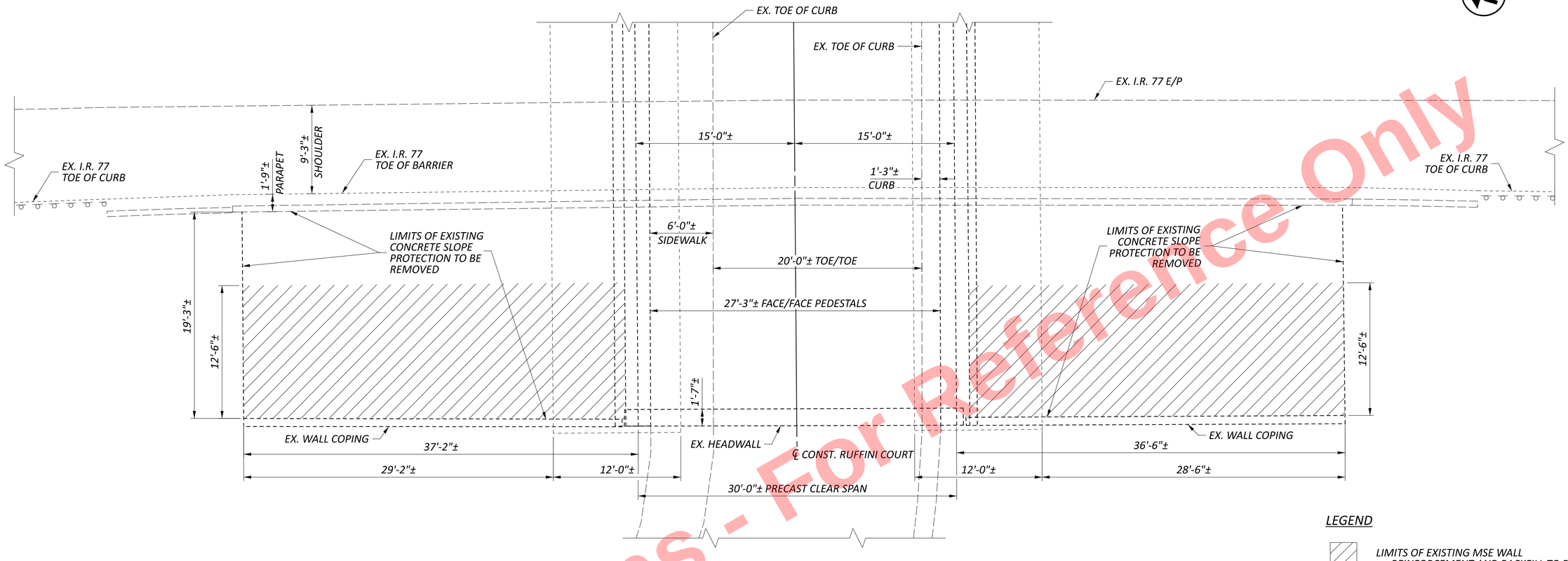
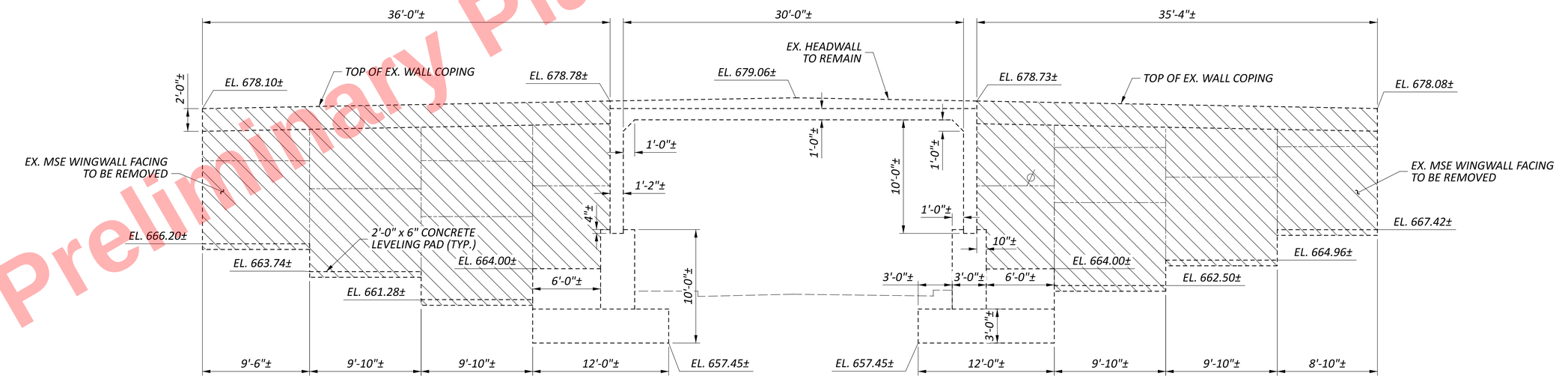


PARTIAL PLAN EXISTING WEST END PORTAL

LEGEND

LIMITS OF EXISTING MSE WALL REINFORCEMENT AND BACKFILL TO BE REMOVED OR PARTIALLY REMOVED

EXISTING STRUCTURE AND RETAINING WALL TO BE REMOVED



EXISTING WEST END PORTAL ELEVATION

NOTES:

1. STRUCTURE REMOVAL SHALL BE PERFORMED IN MAINTENANCE OF TRAFFIC PHASES 1A, 1B, AND 1C.

Preliminary Plans - For Reference Only

REMOVAL DETAILS
BRIDGE NO. CUY-77-1331
OVER RUFFINI COURT

SFN	1806610
DESIGN AGENCY	TRC
DESIGNER	LAB
CHECKER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	8
TOTAL	12
SHEET	P.1168
TOTAL	P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:59:12 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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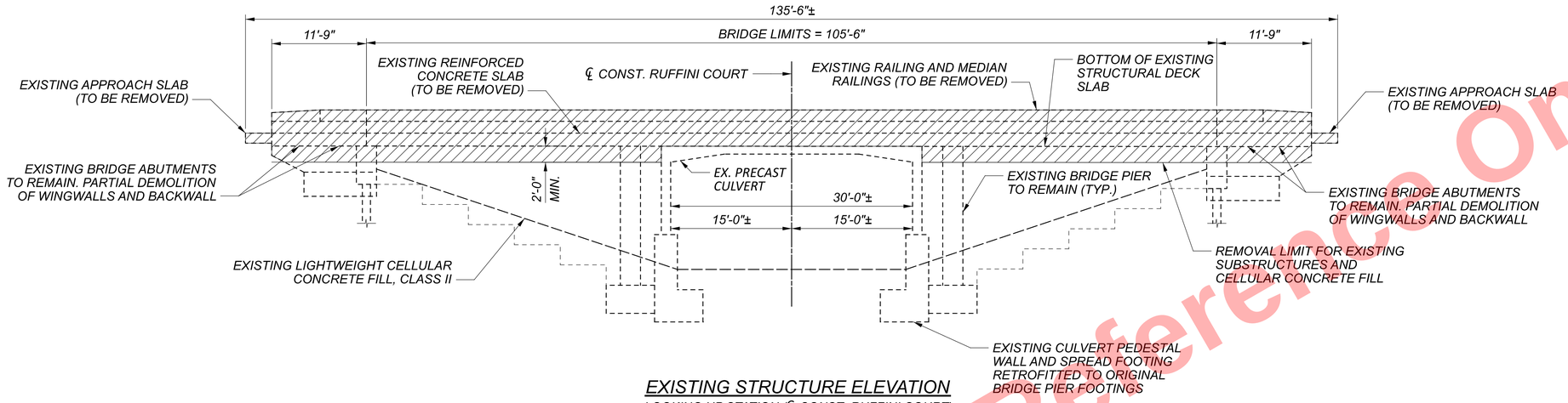
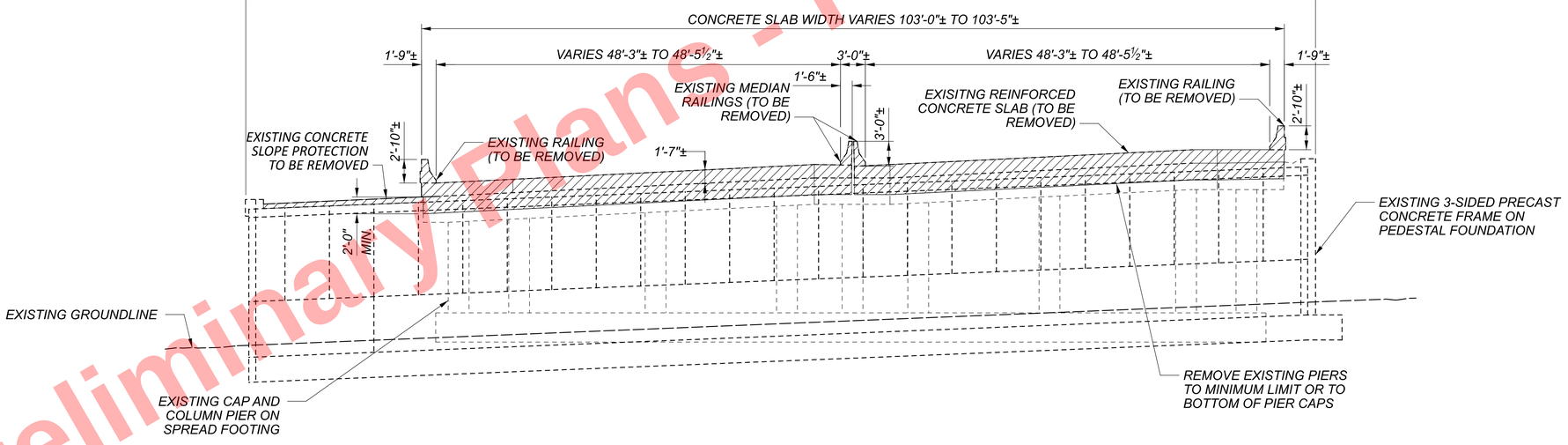


EXISTING STRUCTURE ELEVATION

LOOKING UP STATION (℄ CONST. RUFFINI COURT)



EXISTING STRUCTURE PROFILE

LOOKING UP STATION (IR-77)

NOTE:

1. FOR LIMITS OF PHASED REMOVAL AND CONSTRUCTION, SEE SHEETS 4/12 THRU 7/12.

Preliminary Plans - For Reference Only

REMOVAL DETAILS
BRIDGE NO. CUY-77-1331
OVER RUFFINI COURT

SFN	1806610
DESIGN AGENCY	TRC
DESIGNER	LAB
CHECKER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	9
TOTAL	12
SHEET	P.1169
TOTAL	P.1269

CUY-77-11.41 - PART 1
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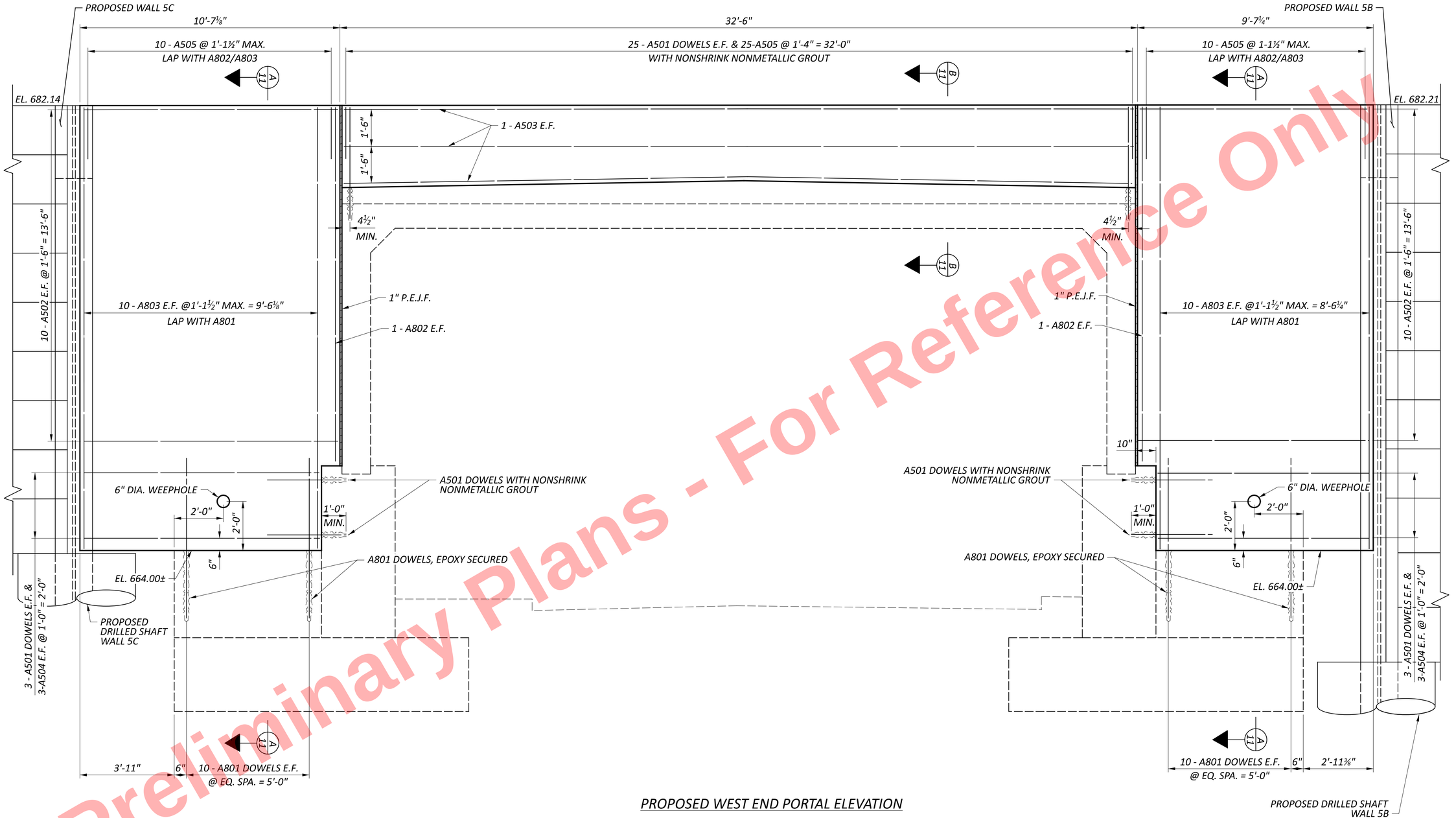

PROPOSED WEST END PORTAL ELEVATION

NOTES:

1. ALL DIMENSIONS ARE MEASURED ON THE FRONT FACE OF THE END PORTAL.
2. FOR SECTION A-A AND SECTION B-B, SEE SHEET 11/12.
3. ALL PROPOSED CONCRETE SHALL BE PAID FOR UNDER ITEM 511 QC1 CONCRETE WITH QC/QA, HEADWALL, AS PER PLAN.
4. PROPOSED CONSTRUCTION SHALL BE PERFORMED IN MAINTENANCE OF TRAFFIC PHASES 1A, 1B, AND 1C.

Preliminary Plans - For Reference Only

END PORTAL DETAILS
BRIDGE NO. CUY-77-1331
OVER RUFFINI COURT

SFN 1806610
DESIGN AGENCY TRC
DESIGNER LAB | CHECKER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 10 | TOTAL 12
SHEET P.1170 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 4:59:46 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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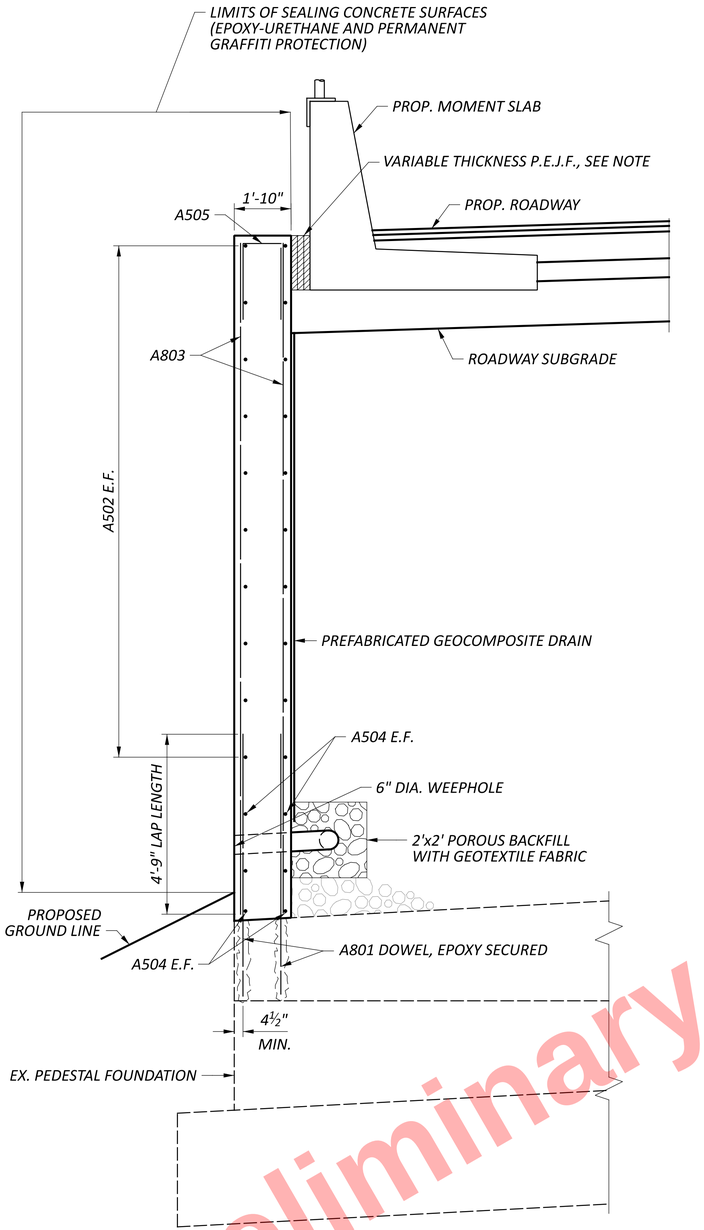
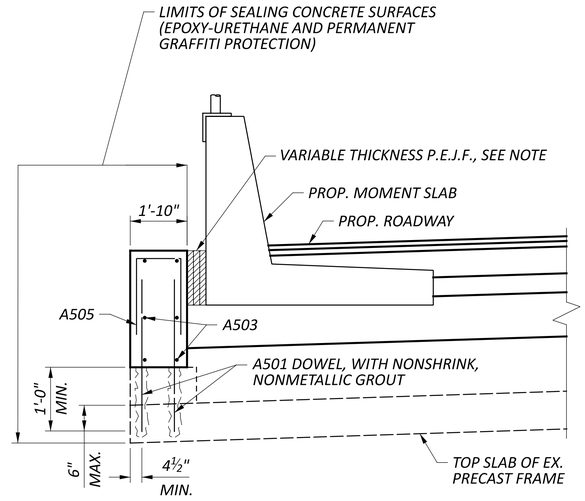
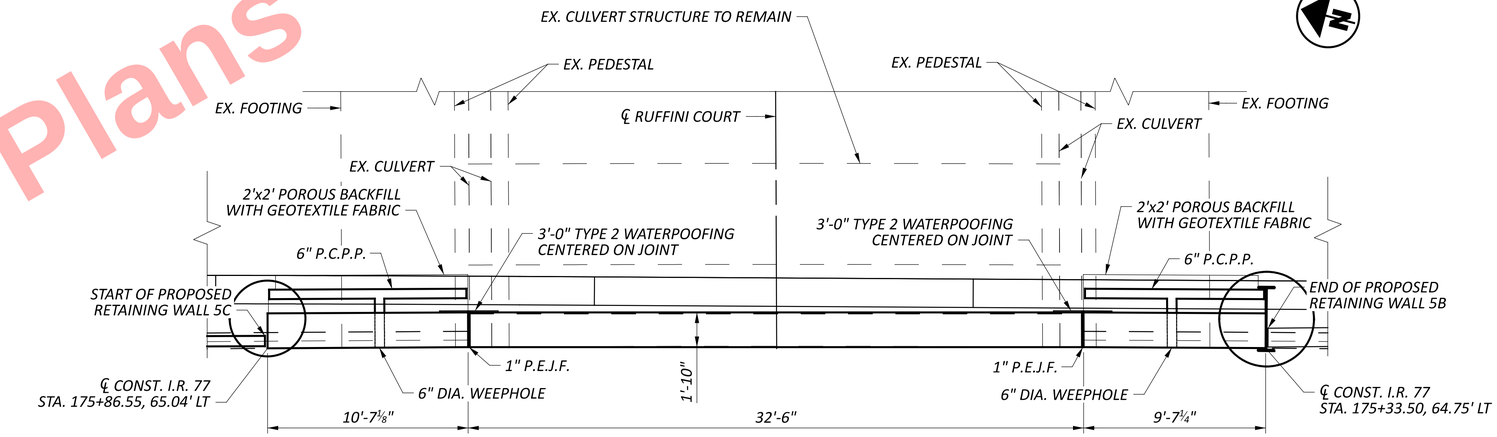


SECTION A-A



SECTION B-B



PROPOSED WEST END PORTAL LOCATION PLAN

NOTES:

1. DISTANCE BETWEEN BACK FACE OF WALL AND MOMENT SLAB VARIES APPROXIMATELY FROM 2" TO 5". LAYERS OF P.E.J.F. SHALL BE PLACED TO SUFFICIENTLY FILL THE GAP. UNIFORM APPLICATION OF 2" THICK P.E.J.F. IS ASSUMED FOR ESTIMATED QUANTITIES.
2. SEE MOMENT SLAB PLANS, SHEETS 956/1135 THROUGH 964/1135 FOR ADDITIONAL INFORMATION AND PAY ITEMS ASSIGNED TO THEIR CONSTRUCTION.
3. PREFABRICATED GEOCOMPOSITE DRAIN SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BEHIND THE WALL STEM.

Preliminary Plans - For Reference Only

END PORTAL DETAILS
BRIDGE NO. CUY-77-1331
OVER RUFFINI COURT

SFN 1806610
DESIGN AGENCY TRC
DESIGNER LAB | CHECKER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 11 | TOTAL 12
SHEET P.1171 | TOTAL P.1269

CUY-77-11.41 - PART 1

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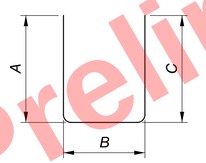
MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS						
					A	B	C	D	E	R	INC
A501	62	4'-0"	259	STR							
A502	40	9'-8"	403	STR							
A503	6	32'-0"	200	STR							
A504	12	8'-11"	112	STR							
A505	45	5'-3"	246	2	2'-0"	1'-6"	2'-0"				
A801	40	7'-3"	774	STR							
A802	4	13'-9"	147	STR							
A803	40	17'-0"	1816	STR							
		TOTAL	3,957								



TYPE-2

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. A801 DOWEL BARS ARE UNCOATED REINFORCING STEEL, ALL OTHER REINFORCING STEEL SHALL BE EPOXY COATED.

Preliminary Plans - For Reference Only

REINFORCING STEEL LIST
BRIDGE NO. CUY-77-1331
OVER RUFFINI COURT

SFN 1806610
DESIGN AGENCY TRC
DESIGNER LAB | CHECKER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 12 | TOTAL 12
SHEET P.1172 | TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/1/2026 TIME: 5:00:02 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: JPyles@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
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NOTE: CONSTRUCTION LIMITS DO NOT INCLUDE FENCE WORK BEYOND NORMAL GRADING WORK. THE CONTRACTOR SHALL PERFORM ADDITIONAL CLEARING AND GRUBBING AS REQUIRED FOR FENCE REMOVAL AND REPLACEMENT WORK. AN ADDITIONAL 10' WIDTH OF EARTH DISTURBED AREA IS INCLUDED IN THE PROJECT EARTH DISTURBED AREA FOR FENCE WORK.

LEGEND

- PROPOSED FENCE
- EXISTING FENCE
- D.N.D. DO NOT DISTURB
- CONSTRUCTION LIMITS
- EP - END POST ASSEMBLY
- IAP - INTERMEDIATE ANCHOR POST ASSEMBLY
- LPEC - LINE POST ENCASED IN CONCRETE

EP
STA. 301+37.1 ℄ CONST. A3 RAMP
OFF. 57.0' LT.

LPEC
STA. 304+94.6 ℄ CONST. RAMP A3
OFF. 57.5' LT.

LPEC
STA. 309+41.8 ℄ CONST. RAMP A3
OFF. 64.6' LT.

℄ CONST. RAMP A3

RAMP A3

℄ I.R. 77

I.R. 77

F-1

MATCH LINE STA. 86+50.00

GRANT AVENUE

RAMP A4

℄ CONST. RAMP A4

IAP
STA. 400+84.1 ℄ CONST. RAMP A4
OFF. 50.7' RT.

EP
STA. 400+24.2 ℄ CONST. RAMP A4
OFF. 85.3' RT.

F-12

LPEC
STA. 406+06.3 ℄ CONST. RAMP A4
OFF. 65.4' RT.

8' GATE
STA. 406+84.71, ℄ CONST. RAMP A4
63.03' RT.

IAP
STA. 86+50.0
OFF. 119.1' RT.

WHILE THIS GATE IS SPECIFIED ON THE PLANS IT DOES NOT EXCLUDE THE CONTRACTOR FROM INSTALLING GATES IN OTHER LOCATIONS REQUIRED THE SPECIFICATIONS OR PER THE ENGINEER.

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

I.R. 77 FENCE PLAN
STA 74+00.00 TO STA 86+50.00

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.1173 TOTAL P.1269

CUY-77-11.41 - PART 1

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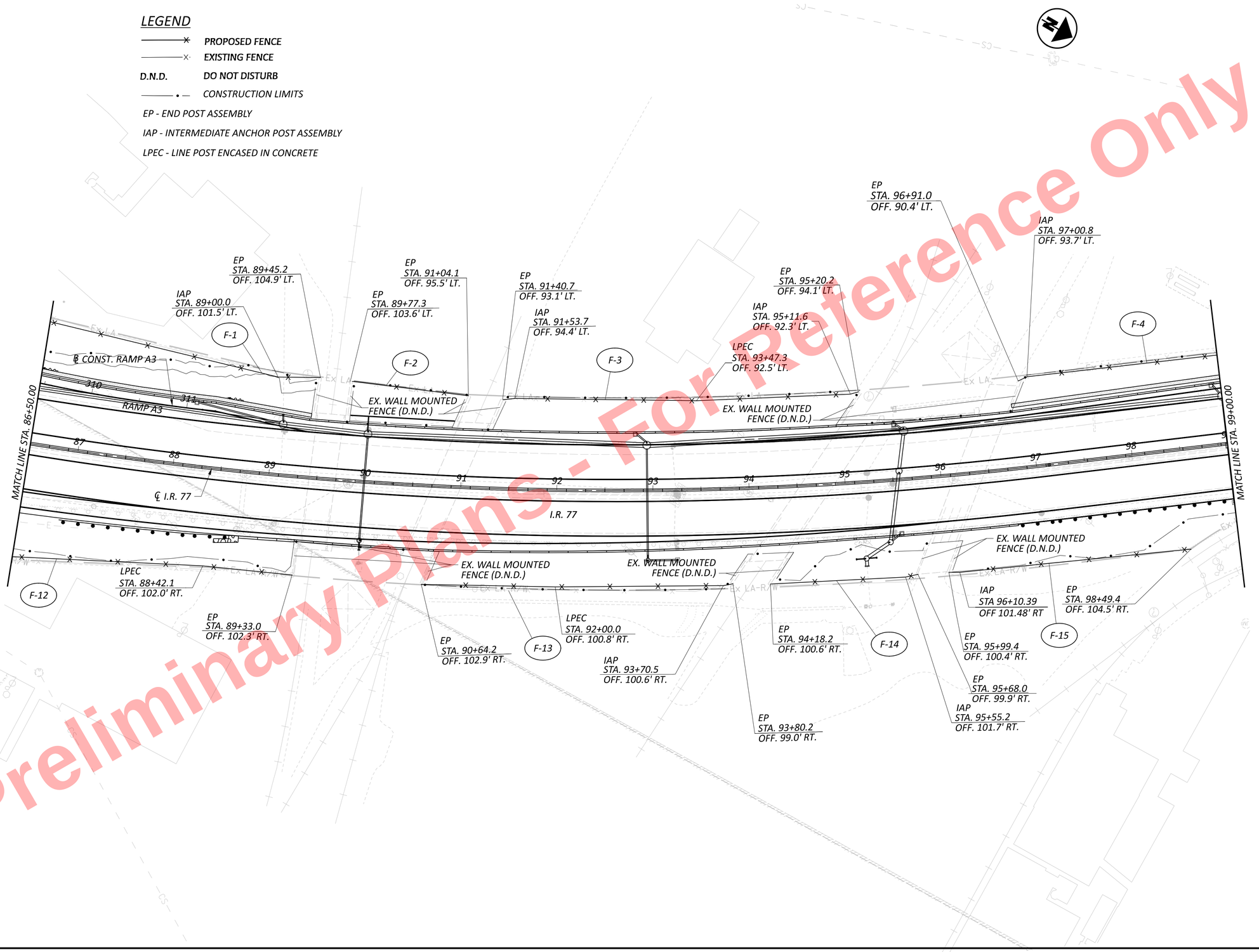
Preliminary Plans - Not For Reference Only

LEGEND

- PROPOSED FENCE
- EXISTING FENCE
- D.N.D. DO NOT DISTURB
- CONSTRUCTION LIMITS
- EP - END POST ASSEMBLY
- IAP - INTERMEDIATE ANCHOR POST ASSEMBLY
- LPEC - LINE POST ENCASED IN CONCRETE



HORIZONTAL SCALE IN FEET
0 25 50 100

I.R. 77 FENCE PLAN
STA 86+50.00 TO STA 99+00.00

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.1174 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Sheet 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:32:35 PM USER: apendleton
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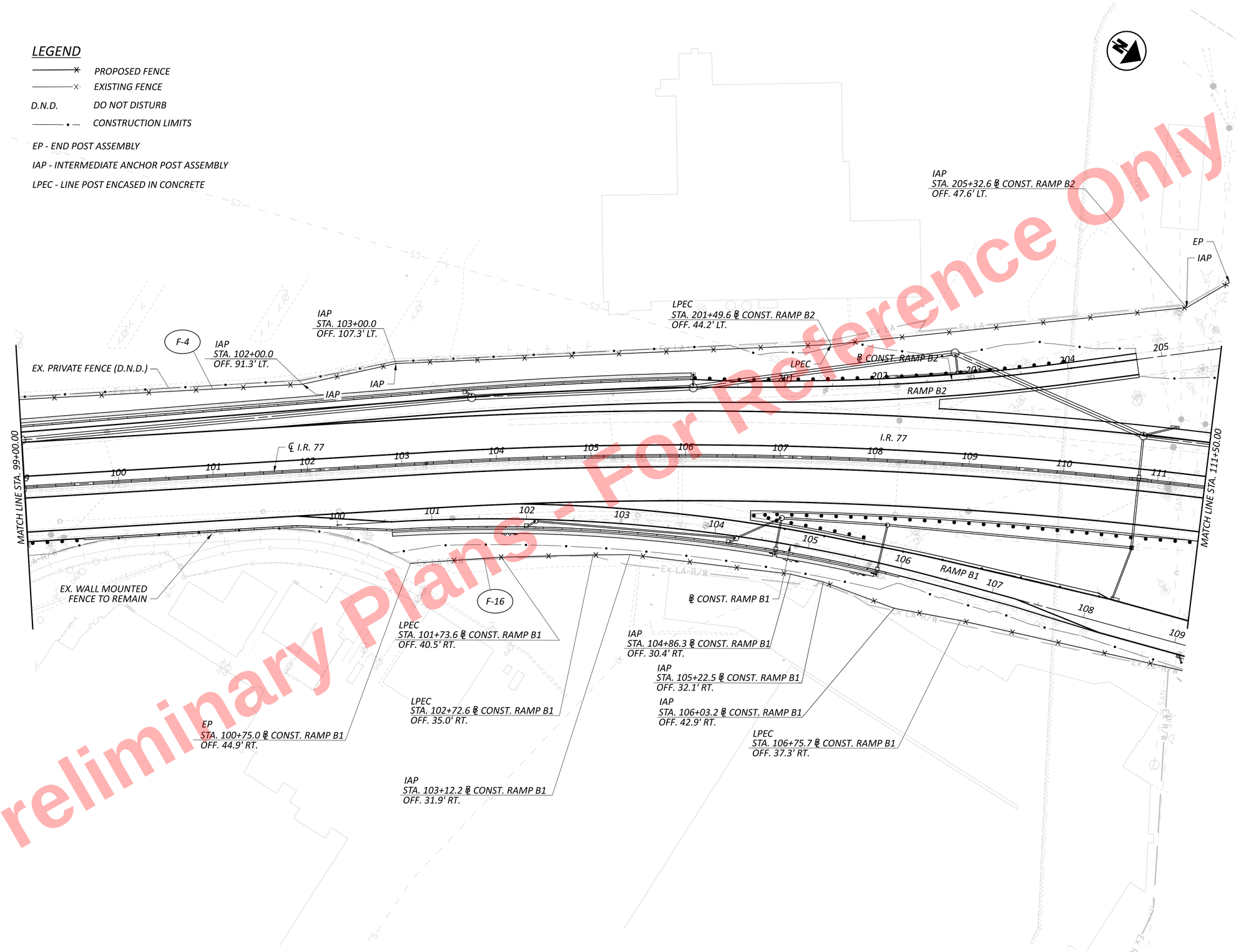
LEGEND

- PROPOSED FENCE
- EXISTING FENCE
- D.N.D. DO NOT DISTURB
- CONSTRUCTION LIMITS

EP - END POST ASSEMBLY

IAP - INTERMEDIATE ANCHOR POST ASSEMBLY

LPEC - LINE POST ENCASED IN CONCRETE



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

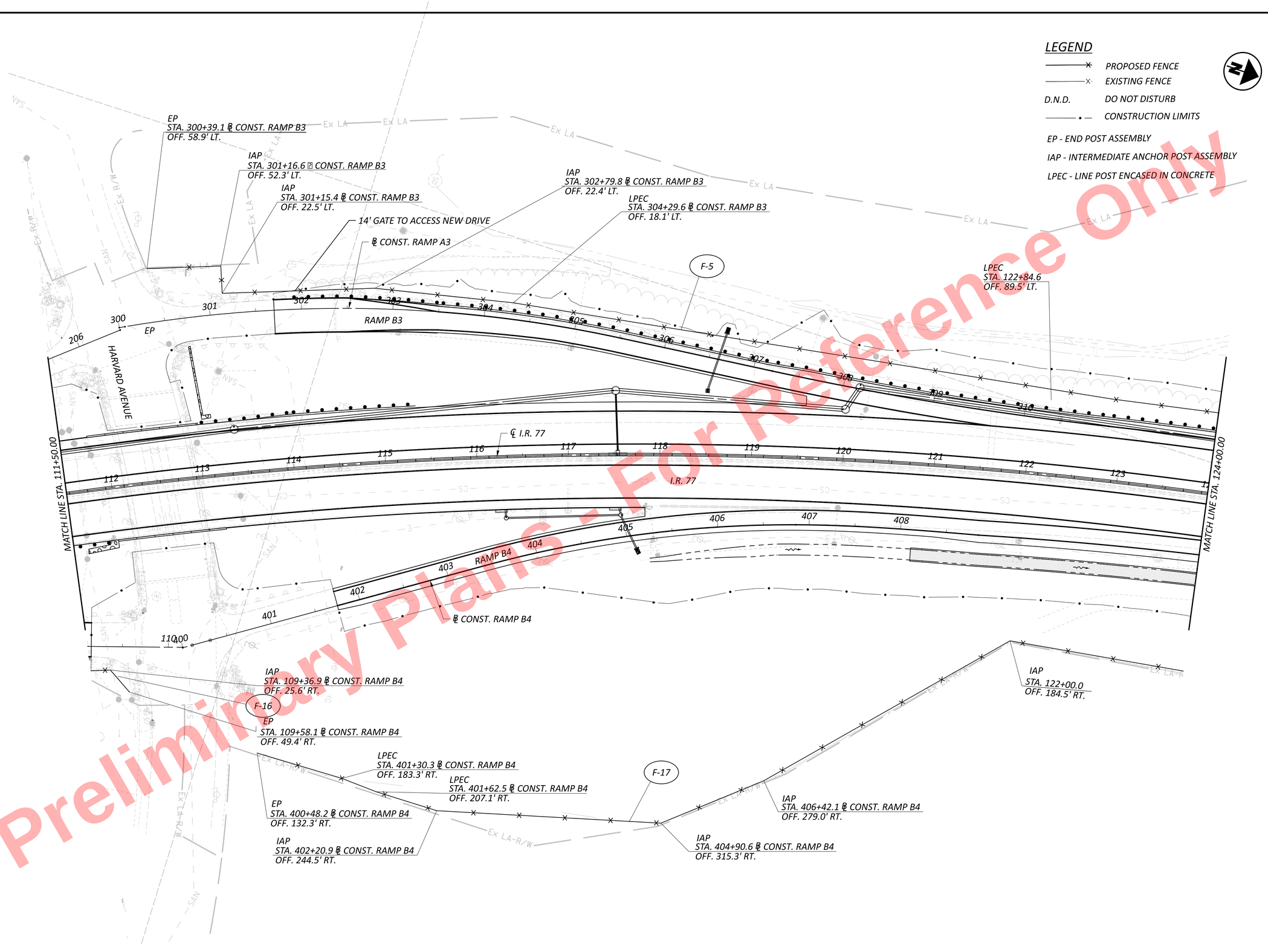
I.R. 77 FENCE PLAN
STA 99+00.00 TO STA 111+50.00

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.1175 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Sheet 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:32:36 PM USER: apendleton
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21(105743)\000-Engineering\Roadway\Sheets\105743_PP001.dgn



Preliminary Plans - For Reference Only

I.R. 77 FENCE PLAN
STA 111+50.00 TO STA 124+00.00

DESIGN AGENCY
HNTB

DESIGNER
SJT

REVIEWER
KKP 04/01/22

PROJECT ID
105743

SHEET P.1176 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Sheet 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:32:38 PM USER: apendleton
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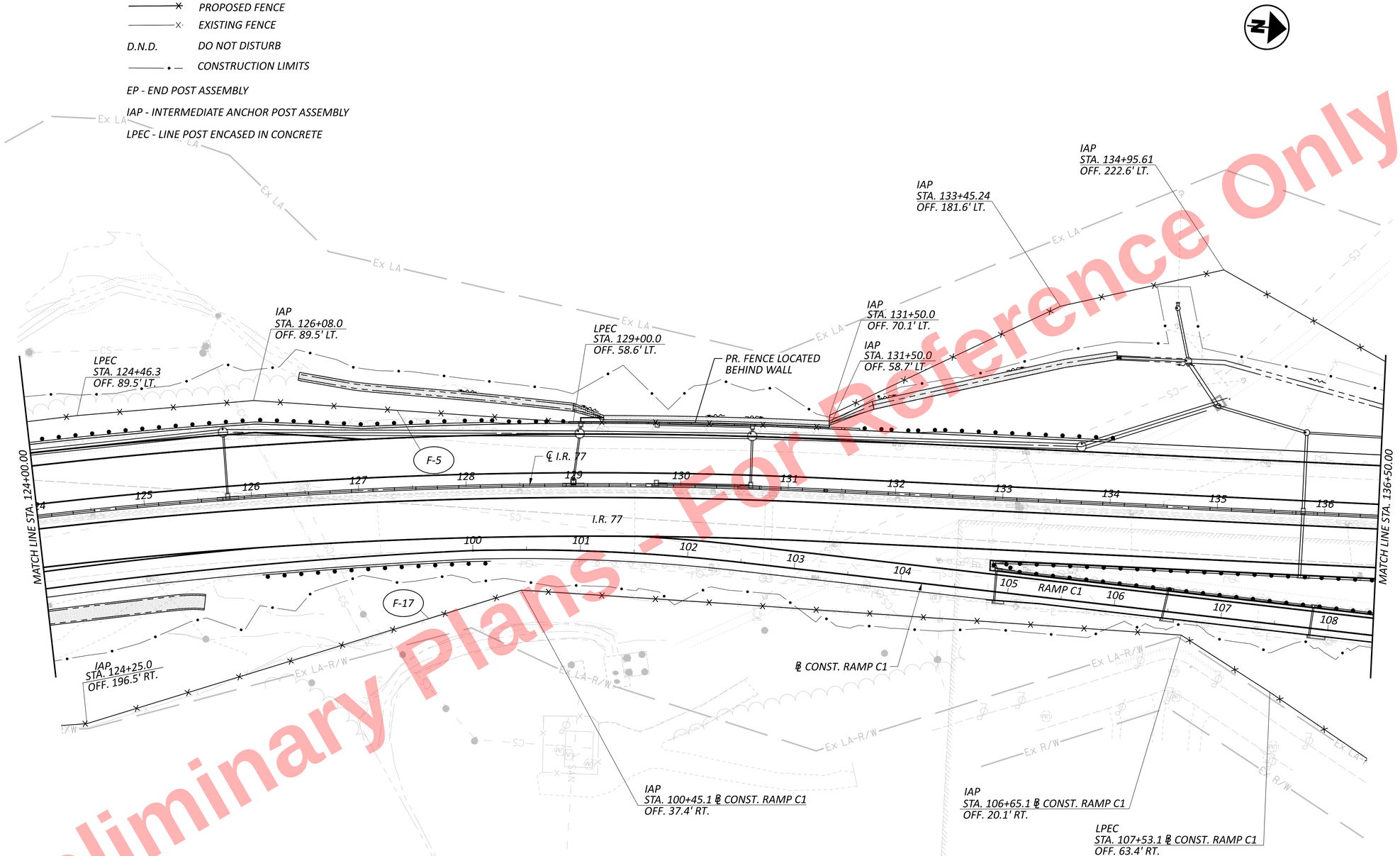
LEGEND

- PROPOSED FENCE
- EXISTING FENCE
- D.N.D. DO NOT DISTURB
- CONSTRUCTION LIMITS

EP - END POST ASSEMBLY

IAP - INTERMEDIATE ANCHOR POST ASSEMBLY

LPEC - LINE POST ENCASED IN CONCRETE



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

I.R. 77 FENCE PLAN
STA 124+00.00 TO STA 136+50.00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Sheet 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:32:39 PM USER: apendleton
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DESIGN AGENCY
HNTB

DESIGNER	SJT
REVIEWER	KKP 04/01/22
PROJECT ID	105743
SHEET	P.1177
TOTAL	P.1269

LEGEND

- PROPOSED FENCE
- EXISTING FENCE
- D.N.D. DO NOT DISTURB
- CONSTRUCTION LIMITS

EP - END POST ASSEMBLY

IAP - INTERMEDIATE ANCHOR POST ASSEMBLY

LPEC - LINE POST ENCASED IN CONCRETE

REMOVE WALL RAILING AND INSTALL WALL MOUNTED FENCE

EP
STA. 141+21.2
OFF. 118.2' LT.

WOODEN FENCE (D.N.D.)

IAP
STA. 137+00.0
OFF. 119.1' LT.

IAP
STA. 138+90.1
OFF. 141.6' LT.

F-5

IAP
STA. 139+68.2
OFF. 87.2' LT.

WALL MOUNTED
FENCE (D.N.D.)

F-6

EP
STA. 141+61.3
OFF. 95.9' LT.

EP
STA. 141+24.7
OFF. 63.5' LT.

EP
STA. 143+01.7
OFF. 93.9' LT.

F-7

EP
STA. 147+18.7
OFF. 98.2' LT.

℄ CONST. RAMP C2

RAMP C2

℄ I.R. 77

FLEET AVENUE

MATCH LINE STA. 136+50.00

MATCH LINE STA. 149+00.00

137 138 139 140 141 142 143 144 145 146 147 148 200 201 202

℄ CONST. RAMP C1

RAMP C1

109 110 111 112 113 114

EP
STA. 111+82.3 ℄ CONST. RAMP C1
OFF. 36.7' RT.

LPEC
STA. 110+89.8 ℄ CONST. RAMP C1
OFF. 105.7' RT.

F-17

IAP
STA. 109+80.0 ℄ CONST. RAMP C1
OFF. 175.4' RT.

300 301 302 RAMP C3 303 304 305 306

℄ CONST. RAMP C3

F-18

WALL MOUNTED
FENCE (D.N.D.)

EP
STA. 300+99.0 ℄ CONST. RAMP C3
OFF. 37.2' RT.

Ex R/W Ex LA-R/W Ex LA

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

I.R. 77 FENCE PLAN
STA 136+50.00 TO STA 149+00.00

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.1178 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Sheet 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:32:40 PM USER: apendleton
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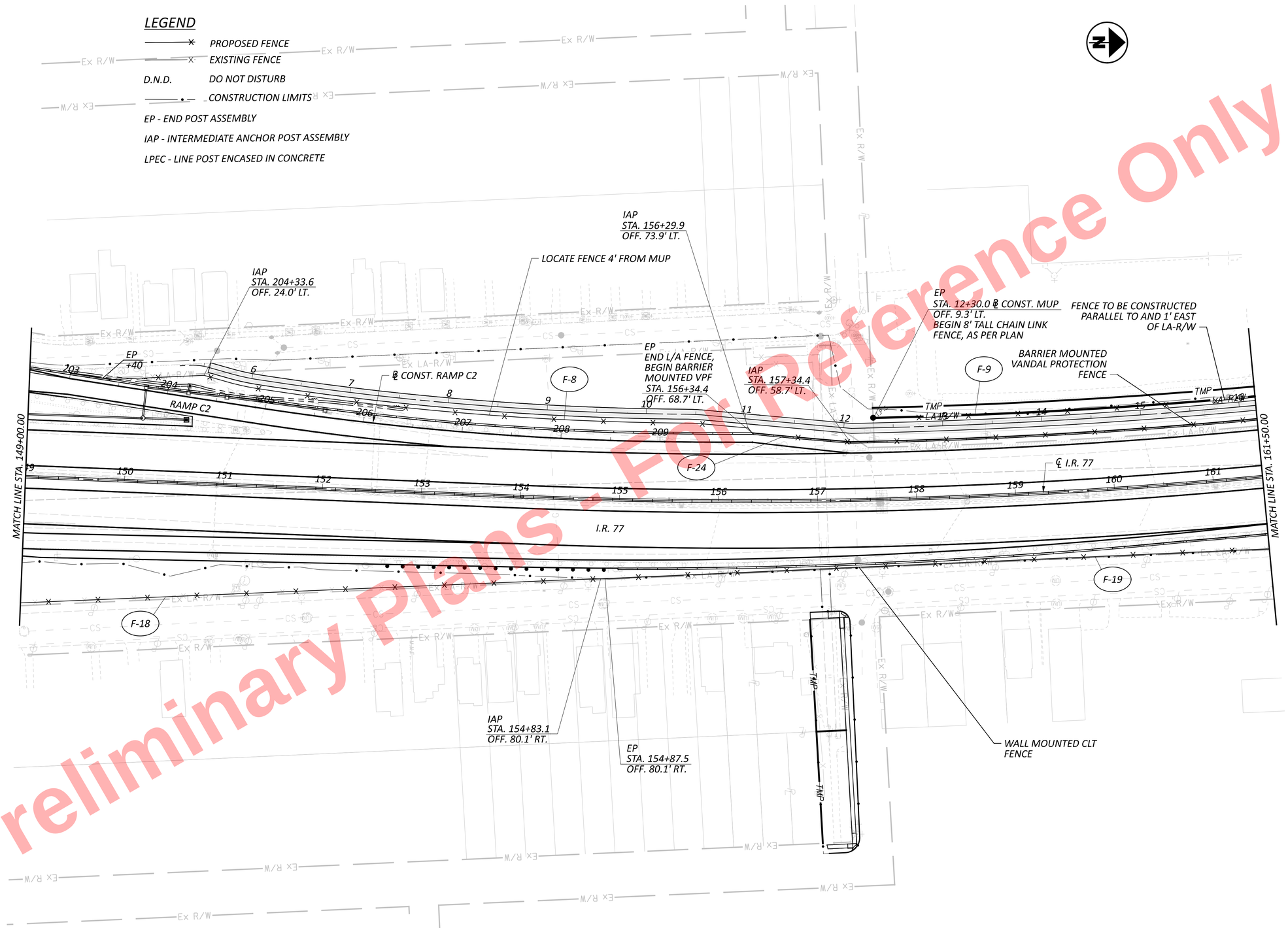
LEGEND

- PROPOSED FENCE
- EXISTING FENCE
- D.N.D. DO NOT DISTURB
- CONSTRUCTION LIMITS
- EP - END POST ASSEMBLY
- IAP - INTERMEDIATE ANCHOR POST ASSEMBLY
- LPEC - LINE POST ENCASED IN CONCRETE



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

I.R. 77 FENCE PLAN
STA 149+00.00 TO STA 161+50.00

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.1179 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Sheet 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:32:41 PM USER: apendleton
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Preliminary Plans - For Reference Only

LEGEND

- PROPOSED FENCE
- EXISTING FENCE
- D.N.D. DO NOT DISTURB
- CONSTRUCTION LIMITS
- EP - END POST ASSEMBLY
- IAP - INTERMEDIATE ANCHOR POST ASSEMBLY
- LPEC - LINE POST ENCASED IN CONCRETE

IAP
STA. 16+20.0 ℄ CONST. MUP
OFF. 18.1' LT.

IAP
STA. 16+19.9 ℄ CONST. MUP
OFF. 8.1' LT.

FENCE TO BE CONSTRUCTED
PARALLEL TO AND 1' EAST
OF LA-R/W

IAP
STA. 23+38.5 ℄ CONST. MUP
OFF. 38.3' LT.

IAP
STA. 23+20.7 ℄ CONST. MUP
OFF. 7.6' LT.

IAP
STA. 22+06.1 ℄ CONST. MUP
OFF. 15.6' LT.

IAP
STA. 22+05.2 ℄ CONST. MUP
OFF. 7.9' LT.
END 8' TALL CHAIN LINK
FENCE, AS PER PLAN

BARRIER MOUNTED VANDAL
PROTECTION FENCE

IAP
STA. 24+52.3 ℄ CONST. MUP
OFF. 31.5' LT.

IAP
STA. 24+52.3 ℄ CONST. MUP
OFF. 30.6' LT.

IAP
STA. 28+51.0 ℄ CONST. MUP
OFF. 24.0' LT.

IAP
STA. 28+31.0 ℄ CONST. MUP
OFF. 6.9' LT.

FENCE TO BE CONSTRUCTED
PARALLEL TO AND 1' EAST
OF LA-R/W

LPEC
STA. 27+79.9 ℄ CONST. MUP
OFF. 10.9' LT.

F-9 F-10 F-19 F-20

TMP

LA-R/W EX LA-R/W Ex R/W Ex SW

MATCH LINE STA. 161+50.00

MATCH LINE STA. 174+00.00

I.R. 77 ℄ I.R. 77

WALL MOUNTED CLT FENCE

END WALL MOUNTED CLT FENCE, BEGIN
BARRIER MOUNTED VANDAL
PROTECTION FENCE

EP
END BARRIER MOUNTED VANDAL PROTECTION
FENCE, BEGIN GROUND MOUNTED FENCE
STA. 171+00.0
OFF. 58.7' RT.

LPEC
STA. 171+44.3
OFF. 65.5' RT.

LPEC
STA. 173+82.7
OFF. 99.4' RT.

HORIZONTAL
SCALE IN FEET
0 25 50 100

I.R. 77 FENCE PLAN
STA 161+50.00 TO STA 174+00.00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Sheet 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:32:42 PM USER: apendleton
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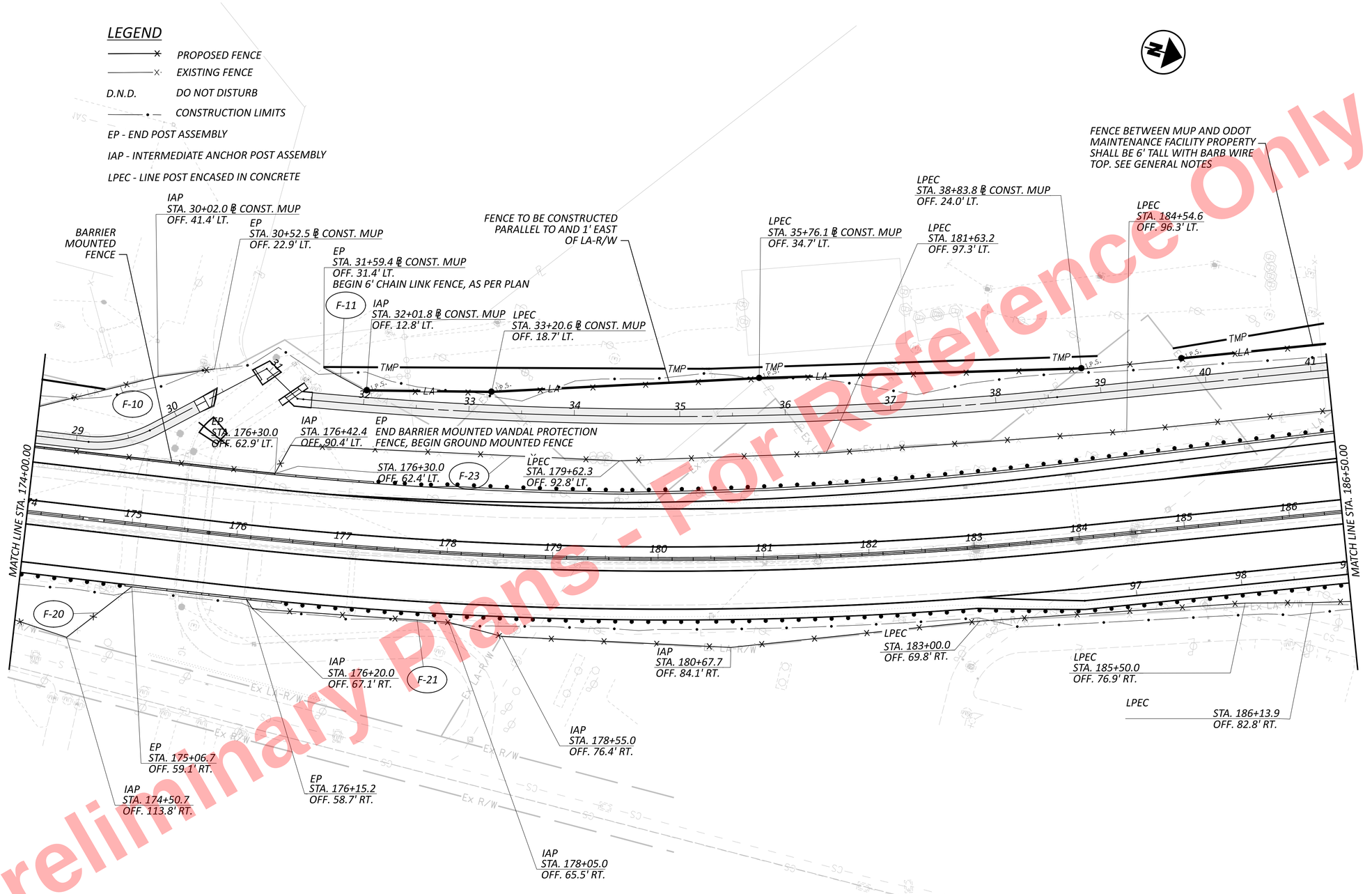
DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.1180 TOTAL P.1269



HORIZONTAL SCALE IN FEET
0 25 50 100

I.R. 77 FENCE PLAN
STA 174+00.00 TO STA 186+50.00

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Sheet 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:32:43 PM USER: apendleton
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_PP001.dgn

DESIGN AGENCY
HNTB

DESIGNER	SJT
REVIEWER	KKP 04/01/22
PROJECT ID	105743
SHEET	P.1181
TOTAL	P.1269

LEGEND

- PROPOSED FENCE
- EXISTING FENCE
- D.N.D. — DO NOT DISTURB
- CONSTRUCTION LIMITS

EP - END POST ASSEMBLY

IAP - INTERMEDIATE ANCHOR POST ASSEMBLY

LPEC - LINE POST ENCASED IN CONCRETE

LPEC
STA. 42+85.3 ℄ CONST. MUP
OFF. 24.0' LT.

LPEC
STA. 43+30.0 ℄ CONST. MUP
OFF. 37.4' RT.

FENCE TO BE CONSTRUCTED
PARALLEL TO AND 1' EAST
OF LA-R/W

LPEC
STA. 203+59.8 ℄ CONST. MUP
OFF. 28.9' LT.

IAP
STA. 46+95.1 ℄ CONST. MUP
OFF. 25.8' LT.

IAP
STA. 50+65.4 ℄ CONST. MUP
OFF. 58.3' LT.
END 6' CHAIN LINK FENCE,
AS PER PLAN

IAP
STA. 50+58.8 ℄ CONST. MUP
OFF. 19.6' LT.

IAP
STA. 206+72.7 ℄ CONST. RAMP D2
OFF. 18.7' LT.

EP
STA. 52+71.1 ℄ CONST. MUP
OFF. 106.1' LT.

IAP
STA. 52+66.3 ℄ CONST. MUP
OFF. 41.6' LT.

EP
STA. 208+30.2 ℄ CONST. RAMP D2
OFF. 11.4' LT.

EX. FENCE (D.N.D.)

F-11

F-23

F-22

F-21

TMP

LA

℄ CONST. RAMP D2

RAMP D2

℄ I.R. 77

I.R. 77

℄ CONST. RAMP D1

RAMP D1

MATCH LINE STA. 186+50.00

MATCH LINE STA. 199+00.00

EP
STA. 100+09.8 ℄ CONST. RAMP E1
OFF. 52.5' RT.

IAP
STA. 100+26.4 ℄ CONST. RAMP E1
OFF. 53.2' RT.

LPEC
STA. 187+39.9
OFF. 92.6' RT.

IAP
STA. 188+97.6
OFF. 99.8' RT.

IAP
STA. 188+56.05
OFF. 95.4' RT.

IAP
STA. 190+03.3
OFF. 97.5' RT.

IAP
STA. 197+25.0
OFF. 214.2' RT.

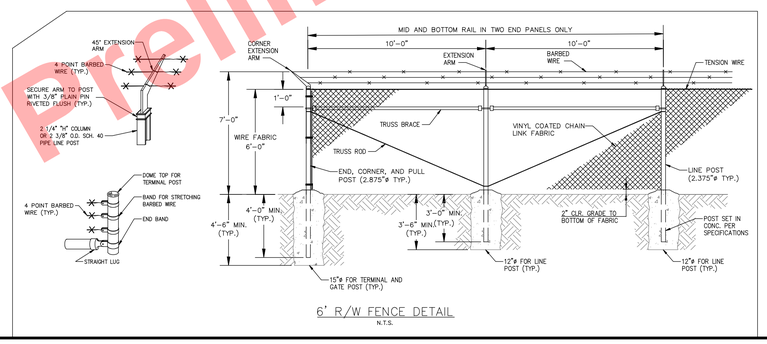
IAP
STA. 100+23.2 ℄ CONST. RAMP E1
OFF. 91.7' RT.

EP
STA. 197+20.1
OFF. 338.4' RT.

PERSHING AVENUE

Ex LA-R/W

Ex R/W



6' R/W FENCE DETAIL
N.T.S.

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

I.R. 77 FENCE PLAN
STA 186+50.00 TO STA 199+00.00

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.1182 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Sheet 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:32:43 PM USER: apendleton
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Preliminary Plans - For Reference Only

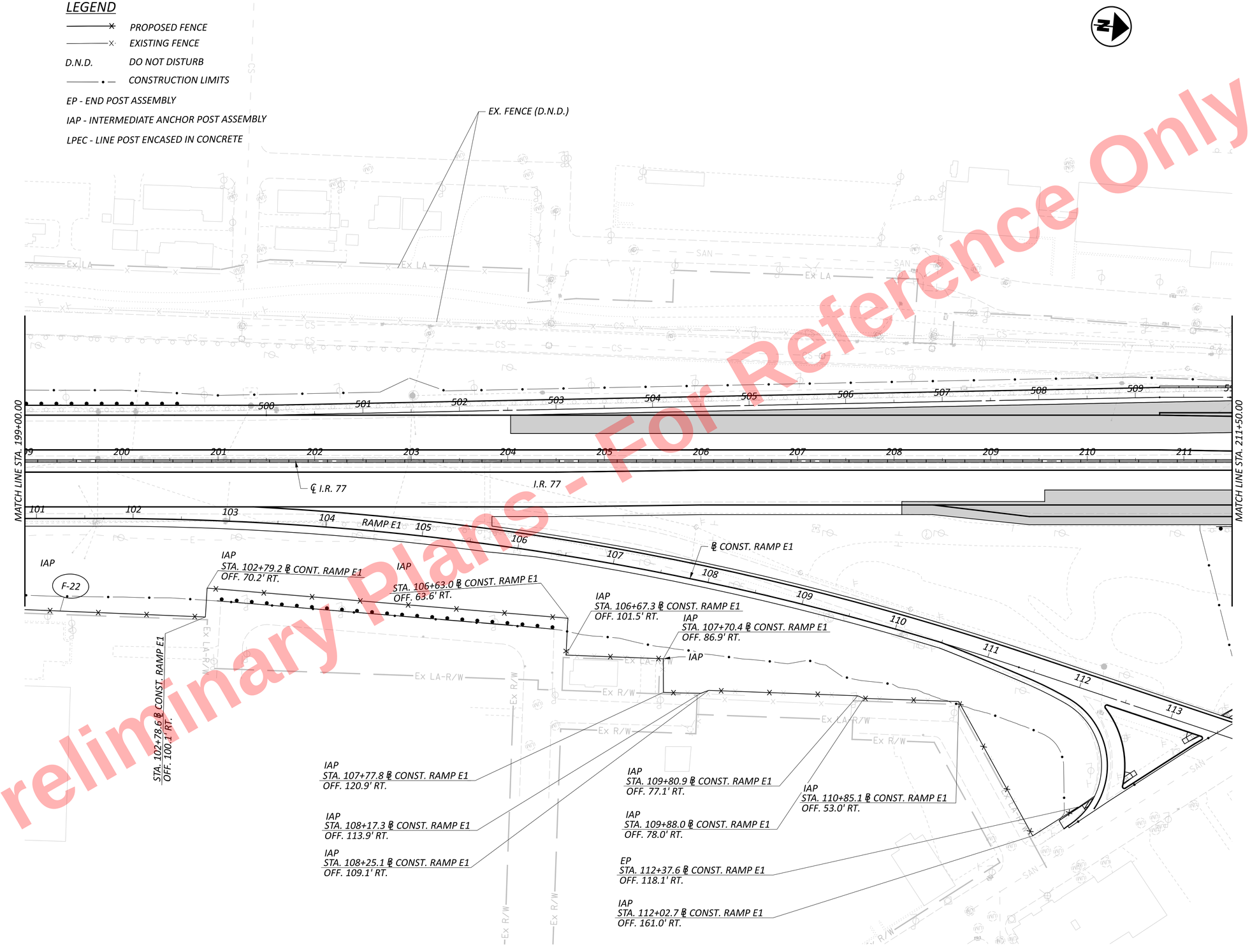
LEGEND

- PROPOSED FENCE
- EXISTING FENCE
- D.N.D. — DO NOT DISTURB
- CONSTRUCTION LIMITS

EP - END POST ASSEMBLY

IAP - INTERMEDIATE ANCHOR POST ASSEMBLY

LPEC - LINE POST ENCASED IN CONCRETE



HORIZONTAL SCALE IN FEET
0 25 50 100

I.R. 77 FENCE PLAN
STA 199+00.00 TO STA 211+50.00

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.1183 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Sheet 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:32:44 PM USER: apendleton
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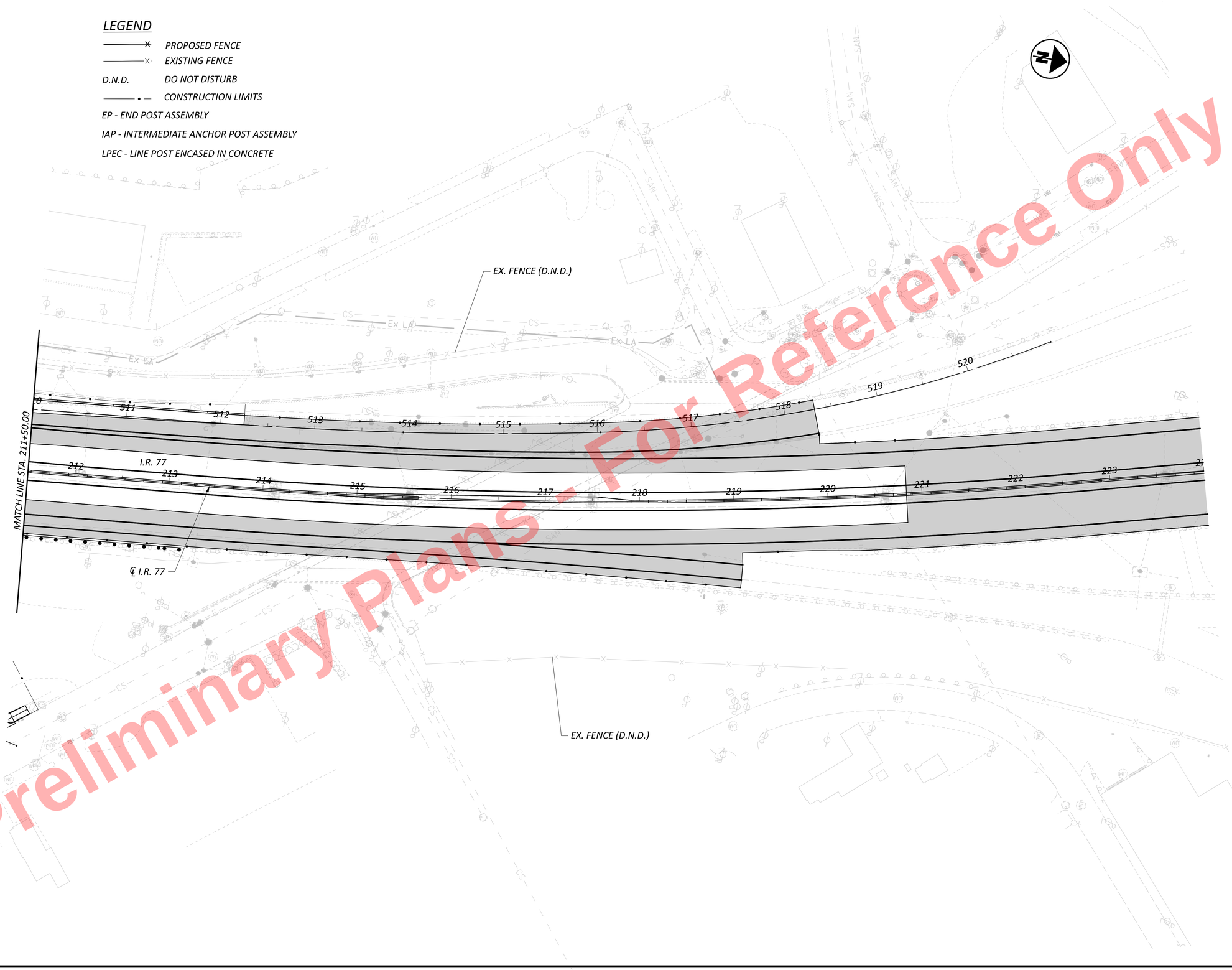
LEGEND

- PROPOSED FENCE
- EXISTING FENCE
- D.N.D. DO NOT DISTURB
- CONSTRUCTION LIMITS
- EP - END POST ASSEMBLY
- IAP - INTERMEDIATE ANCHOR POST ASSEMBLY
- LPEC - LINE POST ENCASED IN CONCRETE



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

I.R. 77 FENCE PLAN
STA 211+50.00 TO STA 224+00.00

DESIGN AGENCY
HNTB

DESIGNER SJT
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.1184 TOTAL P.1269

CUY-77-11.41 - PART 1

MODEL: CLP_i077 - Sheet 12 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/3/2026 TIME: 7:32:45 PM USER: apendleton
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_PP001.dgn

PROJECT DESCRIPTION

IMPROVEMENT OF EXISTING INTERSTATE I-77 BETWEEN GRANT AVENUE AND BROADWAY AVENUE INCLUDING PAVEMENT REPLACEMENT, ROADWAY WIDENING, REPLACEMENT CULVERT-TYPE UNDERPASS TO BE USED AS PEDESTRIAN ACCESS BELOW I-77 AT MORGANA RUN TRAIL, AND NINE RETAINING WALLS ALONG I-77.

HISTORIC RECORDS

HISTORIC BORING INFORMATION WAS TAKEN FROM THREE PREVIOUS GEOTECHNICAL EXPLORATIONS CONDUCTED AT THE SITE BETWEEN 2001 AND 2018.

PROJECT ID	SUBBATCH NO.	BORING	STATION	OFFSET	REF. ALIGNMENT
CUY-77-11.69	NA	B-001-0-02	89+49.82	64.13' LT	I-77
CUY-77-11.69	NA	B-002-0-02	89+62.37	72.11' LT	I-77
CUY-77-11.11	NA	N-001-S-01	91+20.92	91.96' LT	I-77
CUY-77-11.78	NA	N-003-N-01	93+82.88	77.15' RT	I-77
CUY-77-11.78	NA	N-001-N-01	95+62.07	85.49' LT	I-77
CUY-77-13.31	20894	B-004-0-12	174+75	45' LT	I-77
CUY-77-13.31	20894	B-005-0-12	175+00	61' RT	I-77
CUY-77-13.31	20894	B-006-0-12	175+71	65' LT	I-77
CUY-77-13.75	20080	B-002-0-11	9+07*	23' LT*	PERSHING AVE.
CUY-77-11.21	NA	B-026-0-18	170+96.27	55.50 LT	I-77
CUY-77-11.21	NA	B-022-0-18	159+01.95	34.46 LT	I-77

GEOLOGY

THE PROJECT IS SITE IS LOCATED WITHIN THE OHIO GLACIATED HURON-ERIE LAKE PHYSIOGRAPHIC REGION WHICH IS CHARACTERIZED BY MAJOR STREAMS IN DEEP GORGES WITH ELEVATIONS RANGING FROM 570 FEET TO 800 FEET (BROCKMAN, 1998). IR-77 IN THIS LOCATION WAS CONSTRUCTED IN A TRENCH AT ABOUT ELEVATION 661 FT. THE NEW FRONTAGE RD WILL BE CONSTRUCTED IN THE WESTERN SLOPE OF IR-77 WITH CURRENT ELEVATIONS RANGING FROM 660.0 FEET TO 680.0 FEET.
ODNR MAP ENTITLED "SURFICIAL GEOLOGY OF THE CLEVELAND SOUTH QUADRANGLE, 2000," REVEALS 40 FEET OF SAND AND GRAVEL OVER WISCONSINAN AGE LACUSTRINE SILT AND CLAY REPORTED TO BE 290 FEET THICK. CLOSE TO THE SURFACE, THE LACUSTRINE TILL SOILS CONSIST OF UP TO 50 PERCENT CLAY AND 8 TO 30 PERCENT SAND TO THE SOUTH AND EAST OF THE SITE, IT SHOWS SHALLOW SAND AND WISCONSINAN AGE LACUSTRINE SILT AND CLAY OVER DEVONIAN AGE OHIO SHALE. THE LOCAL BEDROCK IS OHIO SHALE, WHICH RISES IN ELEVATION NORTH TO SOUTH FROM 450 FEET AT THE IR-490 RAMP TO APPROXIMATELY 625 FEET MSL AT THE SOUTH-EASTERN END OF THE PROJECT (VORMELKER, ET AL, 1996).

RECONNAISSANCE

I-77 PROVIDES THREE LANES IN EACH DIRECTION IN THE PROJECT AREA WITH AN ASPHALT SHOULDER ON EACH SIDE. THIS SEGMENT OF HIGHWAY IS BOUND BY COMMERCIAL, INDUSTRIAL, AND RESIDENTIAL AREAS WITH MANY ON-RAMPS, RAILROAD OVERPASSES, AND LOCAL ACCESS ROADS. THE EXISTING FREEWAY IS ACCESSED FROM MAJOR SURFACE ROADS IN THE CITY OF CLEVELAND BY VARIOUS ON-RAMPS AND OFF-RAMPS, WHICH EXPAND THE ROADWAY WIDTH OF 4 LANES IN EACH DIRECTION IN AREAS LEADING UP TO OR AWAY FROM INTERCHANGE RAMPS. THE EXISTING PAVEMENT SURFACE ALONG THE I-77 PROJECT ALIGNMENT CONSISTS OF ASPHALT AND APPEARS TO BE IN MODERATE CONDITION, WITH MINOR TO MODERATE CRACKING NOTED. MAJOR UTILITIES ALONG THE PROJECT ALIGNMENT INCLUDE 15 TO 42-INCH STORM SEWERS RUNNING ALONG THE APPROXIMATE CENTERLINE OF THE I-77 FREEWAY; THE 15 TO 42-INCH STORM SEWERS ARE PERIODICALLY CONNECTED WITH LATERAL STORM AND SANITARY SEWER LINES. SEVERAL 12-INCH WATER SUPPLY MAINS CROSS I-77 ROUGHLY PERPENDICULAR TO THE ROADWAY. A 24-INCH GAS MAIN CROSSES UNDER THE I-77 FREEWAY AROUND STATION 214+00. THE NORTHERMOST END OF THE PROJECT MEETS WITH THE SOUTHERN END OF THE I-77 AND I-490 INTERCHANGE IMPROVEMENT PROJECT.

SUBSURFACE EXPLORATION

AECOM'S SUBSURFACE EXPLORATION AT THE PROJECT SITE INCLUDED 36 SOIL BORINGS (34 SUBGRADE BORINGS AND 2 STRUCTURE BORINGS), NUMBERED B-001-0-18 THROUGH B-039-0-18, EACH DRILLED TO A DEPTH OF 6 FEET BELOW EXISTING SUBGRADE ELEVATION FOR SUBGRADE BORINGS AND TO A DEPTH OF 50 FEET BELOW GRADE FOR STRUCTURE BORINGS. BORINGS WERE LOCATED IN THE FIELD BY AN AECOM REPRESENTATIVE, PRIOR TO BEGINNING THE SUBSURFACE EXPLORATION. PRIOR TO THE START OF DRILLING ACTIVITIES, THE OHIO UTILITIES PROTECTION SERVICE WAS NOTIFIED, AND BORING LOCATIONS WERE VERIFIED AS CLEAR OF UTILITY CONFLICTS. AFTER COMPLETION OF THE SUBSURFACE EXPLORATION, BORING LOCATIONS WERE SURVEYED BY AECOM.

B-022-0-18 AND B-026-0-18 WERE DRILLED USING A SIMCO 2800 TRUCK-MOUNTED DRILL RIG FROM MARCH 11-27, 2019. BORING B-036-0-18 WAS DRILLED USING A DEIDRICH D-25 TRAILER-MOUNTED DRILL RIG ON MARCH 27, 2019. ALL BORINGS WERE DRILLED USING EITHER A 4.0-INCH OUTER-DIAMETER SOLID-STEM AUGER OR A 2.25-INCH INNER DIAMETER HOLLOW-STEM AUGER. DURING DRILLING ACTIVITIES, REPRESENTATIVE SOIL SAMPLES WERE COLLECTED FROM THE BORINGS FOR CLASSIFICATION AND/OR TESTING. THE SAMPLES WERE OBTAINED BY STANDARD PENETRATION TESTING (SPT) WITH A SPLIT-SPOON, IN GENERAL ACCORDANCE WITH THE SGE AND ASTM D 1586. A 140-POUND AUTOMATIC HAMMER FALLING 30-INCHES WAS USED FOR SAMPLING. THE HAMMER FOR THE DEIDRICH D-25 DRILL RIG WAS CALIBRATED ON NOVEMBER 13, 2018 TO AN ENERGY RATIO OF 87.4%. THE HAMMER FOR THE SIMCO 2800 HS (HT) DRILL RIG WAS CALIBRATED ON NOVEMBER 13, 2018 TO AN ENERGY RATIO OF 84.5%. GROUNDWATER WAS MONITORED DURING THE DRILLING ACTIVITIES AND MEASUREMENTS WERE TAKEN DURING AND AFTER DRILLING.

THE RECOMMENDATIONS FOR THE PROPOSED STRUCTURES (RETAINING WALLS, UNDERPASS AND CCTV POLE FOUNDATION) UTILIZED A TOTAL OF TEN (10) HISTORIC BORINGS: EIGHT (8) BORINGS (BORINGS B-001-0-02, B-002-0-02, N-001-S-01, N-003-N-01, N-001-N-01, B-004-0-12, B-006-0-12, and B-002-0-11) FROM SIX (6) PRIOR GEOTECHNICAL EXPLORATIONS CONDUCTED AT THE SITE BETWEEN 2001 AND 2014 AND TWO (2) BORINGS (BORINGS B-026-0-18 and B-022-0-18) FROM THE 2019 (CUY-77-11.21) EXPLORATION.

SUBSURFACE EXPLORATION CONTINUED, SEE SHEET 2

LEGEND

	DESCRIPTION	ODOT CLASS	CLASSIFIED MECH./VISUAL	
	GRAVEL AND/OR STONE FRAGMENTS	A-1-a	17	13
	GRAVEL AND/OR STONE FRAGMENTS WITH SAND	A-1-b	28	53
	GRAVEL AND/OR STONE FRAGS. WITH SAND & SILT	A-2-4	4	19
	FINE SAND	A-3	5	17
	COURSE & FINE SAND	A-3-a	15	25
	SANDY SILT	A-4-a	29	107
	SILT	A-4-b	70	123
	SILT & CLAY	A-6-a	6	11
	SILTY CLAY	A-6-b	1	1
	CLAY	A-7-6		
		TOTAL	175	369
	PAVEMENT OR BASE = X = APPROXIMATE THICKNESS	VISUAL		
	SOD AND TOPSOIL = X = APPROXIMATE THICKNESS	VISUAL		

BORING LOCATION - PLAN VIEW.

DRIVE SAMPLE AND/OR ROCK CORE BORING PLOTTED TO VERTICAL SCALE ONLY. HORIZONTAL BAR INDICATES A CHANGE IN STRATIGRAPHY.

WC — INDICATES WATER CONTENT IN PERCENT.

N_{60} — INDICATES STANDARD PENETRATION RESISTANCE NORMALIZED TO 60% DRILL ROD ENERGY RATIO.

X/D" — NUMBER OF BLOWS FOR STANDARD PENETRATION TEST (SPT): X/D" = NUMBER OF BLOWS (UNCORRECTED) FOR D" OF PENETRATION AT REFUSAL

X/Y/D" — NUMBER OF BLOWS FOR STANDARD PENETRATION TEST (SPT): X" = NUMBER OF BLOWS FOR 6 INCHES (UNCORRECTED) Y/D" = NUMBER OF BLOWS (UNCORRECTED) FOR D" OF PENETRATION AT REFUSAL

W — INDICATES FREE WATER ELEVATION

INDICATES WATER AT COMPLETION

INDICATES A PLASTIC MATERIAL WITH A MOISTURE CONTENT EQUAL TO OR GREATER THAN THE LIQUID LIMIT MINUS 3.

INDICATES A NON-PLASTIC MATERIAL WITH A MOISTURE CONTENT GREATER THAN 25 % OR GREATER THAN 19 % WITH A WET APPEARANCE.

SS — INDICATES A SPLIT SPOON SAMPLE.

ST — INDICATES A SHELBY TUBE SAMPLE.

NP — INDICATES A NON-PLASTIC SAMPLE.



LOCATION MAP

SCALE IN MILES

0 1 2 3 4

N

PARTICLE SIZE DEFINITIONS

12"	3"	2.0 mm	0.42 mm	0.074 mm	0.005 mm
BOULDERS	COBBLES	GRAVEL	COARSE SAND	FINE SAND	SILT	CLAY
		No. 10 SIEVE	No. 40 SIEVE	No. 200 SIEVE		

INDEX OF SHEETS

EXPLORATION NOTES (CONT.), SHEETS 2-3

SUMMARY OF SOIL TEST DATA, SHEETS 4-8

LOCATION FROM STA.	LOCATION TO STA.	PLAN VIEW SHEET	PROFILE SHEET	STRUCTURE INCLUDED SHEET	STRUCTURE INCLUDED BRIDGE NO./ WALL	STRUCTURE INCLUDED SFN
IR 77						
70+00	82+50	9	9	-		
82+50	95+00	10	10	23 24 25 28 29	RETAINING WALL 1A RETAINING WALL 1B RETAINING WALL 1C RETAINING WALL 2A RETAINING WALL 2	
95+00	107+50	11	11	27 30-31	RETAINING WALL 1D RETAINING WALL 3	
107+50	120+00	12	12	-		
120+00	132+50	13	13	32	RETAINING WALL 4	
132+50	145+00	14	14	-		
145+00	157+50	15	15	-		
157+50	170+00	16	16	33-34 37-38 39	RETAINING WALL 5A RETAINING WALL 6 RETAINING WALL 7	
170+00	182+50	18	18	35 17 36 22	RETAINING WALL 5B CUY-77-1331 RETAINING WALL 5C CUY-77-1331	1806572 1806610
182+50	195+00	19	19	-		
195+00	207+50	20	20	-		
207+50	220+00	21	21	-		

BORING LOGS, SHEETS 40-85

RECON. - SDM 11/15/2021

DRILLING - TRC 12/01/2021-12/17/2021
AECOM 03/11/2019-03/27/2019

DRAWN - NMC 9/9/2022

REVIEWED - SDM 11/18/2025

For Reference Only
Preliminary Plans Pending

GEOTECHNICAL PROFILES - ROADWAY & STRUCTURES

DESIGN AGENCY TRC

DESIGNER NMC

REVIEWER SDM 05/01/26

PROJECT ID 105743

SUBSET 1 | TOTAL 85

SHEET P.1185 | TOTAL P.1269

CUY-77-11.41

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 10:57:00 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZC001.dgn

SUBSURFACE EXPLORATION (CONT.)

TWENTY-NINE (29) ADDITIONAL SOIL STRUCTURE BORINGS, B-040-0-20 THROUGH B-044-0-20, B-046-0-20, B-048-0-20 THROUGH B-056-0-20, B-059-0-20 THROUGH B-068-0-20 AND B-070-0-20 THROUGH B-073-0-20, WERE PERFORMED. EACH OF THE TWO CULVERT UNDERPASS BORINGS (BORINGS B-070-0-20 AND B-071-0-20) WERE DRILLED TO 110 FEET BELOW GROUND SURFACE (BGS), WHEREAS THE REMAINING BORINGS FOR THE WALLS, SLOPES AND DRAINAGE FACILITIES, WERE DRILLED TO DEPTHS RANGING FROM 15 TO 60 BGS. THE BORINGS WERE DRILLED USING CME 45 TRACK-MOUNTED AND CME 550X ATV DRILL RIGS BETWEEN 12/2/2021 AND 12/17/2021. ALL BORINGS WERE DRILLED USING A 3¼ INCH INNER-DIAMETER HOLLOW STEM AUGER TO ADVANCE THE HOLE BETWEEN SAMPLING POINTS. THE SAMPLES WERE OBTAINED BY PERFORMING STANDARD PENETRATION TESTING WITH A SPLIT-SPOON, IN GENERAL ACCORDANCE WITH ODOT SGE AND ASTM D 1586. IN THIS TEST, THE SPLIT SPOON SAMPLER IS DRIVEN INTO THE SOIL USING A 140-POUND AUTOMATIC HAMMER FALLING 30-INCHES. THE HAMMER FOR THE CME 45 DRILL RIG HAD AN ENERGY RATING OF 89.3% BASED ON CALIBRATION DATED 8/5/2021, WHEREAS THE HAMMER FOR THE CME 550X RIG HAD AN ENERGY RATING OF 85.6% BASED ON THE CALIBRATION DATED 10/19/2021. SPLIT SPOON SAMPLING WITH SPT TESTING WERE PERFORMED AT 2.5-FOOT INTERVALS WITHIN THE UPPER 20 FEET OF THE BORINGS AND AT 5.0-FOOT INTERVALS AFTERWARDS.

EXPLORATION FINDINGS

THE LOGS OF SOIL BORINGS SHOW GENERAL SIMILARITY AND UNIFORMITY OF THE SUBSURFACE PROFILES. BASED ON THE ROADWAY BORINGS, THE PREDOMINANT SOIL TYPES ALONG THE PROPOSED SUBGRADE ALIGNMENT GENERALLY INCLUDED GRANULAR FILL (ODOT SOIL TYPES A-1-a, A-1-b, A-3 AND A-3a), FINE-GRAINED FILL (A-4a AND A-4b), NATURAL SAND AND GRAVEL (A-1-a, A-1-b, A-3 AND A-3a), AND NATURAL FINE-GRAINED SOILS (A-4a, A-4b, AND A-6a). NON-COHESIVE SOILS WERE GENERALLY MEDIUM DENSE TO DENSE IN COMPACTNESS AND COHESIVE FINE-GRAINED SOILS WERE GENERALLY MEDIUM STIFF TO HARD IN CONSISTENCY. SOME LOOSE AND MEDIUM STIFF AREAS OF SUBGRADE WERE IDENTIFIED IN THE BORINGS, WHICH MAY REQUIRE IMPROVEMENTS. A LARGE PORTION OF THE SUBGRADE CONSISTS OF A-4b SOILS WHICH WILL REQUIRE IMPROVEMENTS PER ODOT GEOTECHNICAL DESIGN MANUAL (GDM) SECTION 600. TWO SOILS SAMPLES FROM EACH BORING WERE TESTED FOR SULFATE CONTENT IN ACCORDANCE WITH ODOT SS1122. ALL BUT TWO SAMPLES HAD SULFATE CONTENTS BELOW 5,000 PPM, EXCEPT FOR BORING B-033-0-18 IN WHICH BOTH SAMPLES TESTED AND SULFATE CONTENTS BETWEEN 6,000 AND 6,600 PPM.

BASED ON THESE BORINGS, THE SUBSURFACE MATERIALS ARE DOMINANTLY GRANULAR COMPOSED OF SAND (A-3 AND A-3A), SANDY SILT (A-4A), SILT (A-4B) IN ADDITION TO THE GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT (A-2-4) AND STONE FRAGMENTS WITH VARYING PERCENTAGES OF SAND (A-1-A AND A-1-B) AT SHALLOW DEPTHS. THE LOGS DESCRIPTIONS FOR EACH STRUCTURE ARE PROVIDED IN MORE DETAIL BELOW:

<u>WALL 1A</u>
UNDER THE PAVEMENT AND GRANULAR BASE, BORINGS B-041-0-20 AND B-042-0-20 ENCOUNTERED GRANULAR MATERIAL COMPOSED OF APPROXIMATELY 10-FEET OF GRAVEL WITH STONE FRAGMENTS AND SAND (A-1-B), FOLLOWED BY SILT (A-4B) AND SANDY SILT (A-4A). HISTORIC BORING B-001-0-02 ENCOUNTERED VARIOUS SOIL TYPES AT SIMILAR ELEVATIONS AS TRC'S BORINGS INCLUDING SILT AND CLAY (A-6A), FINE SAND (A-3), SANDY SILT (A-4A) WITH MORE GRANULAR SOILS OBSERVED BELOW APPROXIMATE ELEVATION 672 FT, SUCH AS FINE SAND (A-3) AND COARSE AND FINE SAND (A-3A) MATERIALS.

<u>WALL 1B</u>
UNDER THE PAVEMENT AND GRANULAR BASE, BORING B-043-0-20 EXHIBITED MOSTLY A MEDIUM DENSE, BROWN GRAVEL AND STONE FRAGMENTS WITH SAND (A-1-B) TO APPROXIMATE 15 FEET BGS FOLLOWED BY VERY STIFF TO HARD, GRAY SILT LAYER (A-4B) TO THE BORING'S TERMINATION DEPTH. HISTORIC BORING N-001-S-01 ENCOUNTERED SILT AND CLAY (A-6A) AT A SIMILAR ELEVATION OF GROUND SURFACE AT BORING B-043-0-20 WITH A COARSE AND FINE SAND (A-3A) STRATUM PRESENT IN THE LOWER PORTIONS OF THE BORING. BORING B-043-0-20 AND THE HISTORIC BORING B-001-0-02 WHICH IS LOCATED JUST BEFORE THE WALL WERE USED FOR DESIGN CALCULATIONS OF THIS WALL.

<u>WALL 1C</u>
UNDER THE ASPHALT PAVEMENT, BORING B-044-0-20 EXHIBITED APPROXIMATELY 7 FEET OF GRAVEL AND STONE FRAGMENTS WITH SAND (A-1-B) FOLLOWED BY 7.5-FEET OF A MEDIUM DENSE, GRAY SILT (A-4B) AND THEN A HARD, BROWN TO GRAY SANDY SILT AND CLAY LAYER (A-4A). HISTORIC BORINGS N-001-S-01, WHICH WAS DRILLED BEFORE WALL 1C, INITIALLY ENCOUNTERED 13.5 FEET OF SILT (A-4B) AND SANDY SILT (A-4A) LAYERS, UNDERLAIN BY 1.5 FEET OF MEDIUM DENSE SAND (A-3), FOLLOWED BY 11.0 FEET OF MEDIUM STIFF SILT AND CLAY (A-6A). THE BORING THEN ENCOUNTERED 7.5 FEET OF LOOSE TO MEDIUM DENSE GRAVEL WITH SAND (A-1-B), FOLLOWED BY 2.5 FEET OF VERY STIFF SANDY SILT (A-4A), UNDERLAIN BY 40-FOOT-THICK LAYER OF DENSE TO VERY DENSE SAND (A-3A). THE BORING WAS TERMINATED AFTER ENCOUNTERING 1.0 FOOT OF VERY DENSE SILT OF THE A-4B FORMATION. BORINGS B-044-0-20 AND N-001-S-01 WERE USED FOR DESIGN CALCULATIONS FOR THIS WALL.

<u>WALL 1D</u>
FOR WALL 1D, BORINGS B-048-0-20 THROUGH B-051-0-20 WE WELL AS HISTORIC BORINGS N-001-N-01 AND N-002-N-01 REVEALED MOSTLY GRANULAR SOILS COMPOSED OF GRAVEL WITH SAND (A-1-B), FINE SAND (A-3), SILT AND SANDY SILT OR SANDY SILT OF LOW TO NO PLASTICITY (A-4B AND A-4A). BORING B-048-0-20 ENCOUNTER 4.0 FEET OF LOOSE GRAVEL AND STONE FRAGMENTS WITH SILT (A-2-4), UNDERLAIN BY 17.5 FEET OF MEDIUM STIFF SILT (A-4B) AND VERY STIFF SANDY SILT (A-4A) EXTENDING TO THE TERMINATION DEPTH OF THE BORING. UNDER THE SURFACE/PAVEMENT LAYERS, THE SOILS ENCOUNTERED IN EACH OF THE BORINGS ARE AS FOLLOW:

- BORING B-049-0-20 ENCOUNTER THE 5.0 FEET OF MEDIUM DENSE GRAVEL AND STONE FRAGMENTS WITH SILT (A-2-4), UNDERLAIN BY LOOSE COARSE AND FINE SAND (A-3A). THE BORING THEN EXHIBITED 4.5 FEET OF SILT (A-4B) AND 11.5 FEET OF MEDIUM DENSE SANDY SILT (A-4A) EXTENDING TO THE TERMINATION DEPTH OF THE BORING.
- BORING B-050-0-20 ENCOUNTER THE 5.0 FEET OF MEDIUM DENSE GRAVEL AND STONE FRAGMENTS WITH SILT (A-A-B AND A-2-4), UNDERLAIN BY STIFF SILT (A-4B). THE BORING THEN EXHIBITED 11.5 FEET OF STIFF SANDY SILT EXTENDING TO THE TERMINATION DEPTH OF THE BORING.
- BORING B-051-0-20 ENCOUNTER THE 5.5 FEET OF LOOSE SANDY SILTY, FOLLOWED 5.0 FEET OF MEDIUM STIFF SILT (A-4B) AND 12.5 FEET OF STIFF LOW PLASTICITY CLAYEY SILT. THE BORING FINALLY EXHIBITED 6.5 FEET OF VERY STIFF TO HARD SANDY SILT (A-4A).
- BORING B-052-0-20 ENCOUNTERS THE 2.0 FEET OF GRAVEL AND STONE FRAGMENTS (A-1-B), FOLLOWED BY 5.0 FEET OF MEDIUM STIFF SILT (A-4B). THE BORING THEN ENCOUNTERED 10.0 FEET OF MEDIUM STIFF CLAYEY SILT (A-4A), FOLLOWED BY 5.0 FEET OF COARSE AND FINE SAND AND 1.5 FEET OF VERY STIFF SILT (A-4B) WHICH MARKED THE END OF EXPLORATION DEPTH FOR THE BORING. BORINGS B-048-020 THROUGH B-051-0-20 WERE UTILIZED IN THE WALL DESIGN.

LEGEND (HISTORIC BORINGS)

DESCRIPTION	ODOT CLASS	CLASSIFIED MECH./VISUAL	
GRAVEL AND/OR STONE FRAGMENTS	A-1-a	0	1
GRAVEL AND/OR STONE FRAGMENTS WITH SAND	A-1-b	6	6
GRAVEL AND/OR STONE FRAGS. WITH SAND & SILT	A-2-4	0	4
FINE SAND	A-3	5	5
COURSE & FINE SAND	A-3-a	19	40
SANDY SILT	A-4-a	9	21
SILT	A-4-b	22	32
SILT & CLAY	A-6-a	23	42
SILTY CLAY	A-6-b	2	4
CLAY	A-7-6	1	0
	TOTAL	87	155
PAVEMENT OR BASE = X = APPROXIMATE THICKNESS	VISUAL		
SOD AND TOPSOIL = X = APPROXIMATE THICKNESS	VISUAL		

BORING LOCATION - HISTORIC

DRIVE SAMPLE AND/OR ROCK CORE BORING PLOTTED TO VERTICAL SCALE ONLY. HORIZONTAL BAR INDICATES A CHANGE IN STRATIGRAPHY.

WC — INDICATES WATER CONTENT IN PERCENT.

N_{60} — INDICATES STANDARD PENETRATION RESISTANCE NORMALIZED TO 60% DRILL ROD ENERGY RATIO.

X/D" — NUMBER OF BLOWS FOR STANDARD PENETRATION TEST (SPT):
X/D" = NUMBER OF BLOWS (UNCORRECTED) FOR D" OF PENETRATION AT REFUSAL

X/Y/D" — NUMBER OF BLOWS FOR STANDARD PENETRATION TEST (SPT):
X" = NUMBER OF BLOWS FOR 6 INCHES (UNCORRECTED)
Y/D" = NUMBER OF BLOWS (UNCORRECTED) FOR D" OF PENETRATION AT REFUSAL

W — INDICATES FREE WATER ELEVATION

INDICATES WATER AT COMPLETION

INDICATES A PLASTIC MATERIAL WITH A MOISTURE CONTENT EQUAL TO OR GREATER THAN THE LIQUID LIMIT MINUS 3.

INDICATES A NON-PLASTIC MATERIAL WITH A MOISTURE CONTENT GREATER THAN 25 % OR GREATER THAN 19 % WITH A WET APPEARANCE.

SS — INDICATES A SPLIT SPOON SAMPLE.

ST — INDICATES A SHELBY TUBE SAMPLE.

NP — INDICATES A NON-PLASTIC SAMPLE.

For Reference Only
Preliminary Plans - Not for Construction

GEOTECHNICAL PROFILES - ROADWAY & STRUCTURES (CONT.)

DESIGN AGENCY: TRC

DESIGNER: NMC

REVIEWER: SDM 05/01/26

PROJECT ID: 105743

SUBSET 2 | TOTAL 85

SHEET P.1186 | TOTAL P.1269

CUY-77-11.41

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 10:57:24 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\S - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZC002.dgn

EXPLORATION FINDINGS (CONT.)

WALL 2A

WITHIN THE INFLUENCE DEPTH OF THE WALL, UNDER THE AGGREGATE BASE, BORING B-002-0-02 ENCOUNTERED APPROXIMATELY 14 FOOT LAYERS OF SANDY SILT AND SILTY CLAY (A-4A AND A-6A), UNDERLAIN BY 10 FEET OF MEDIUM DENSE TO LOOSE FINE SAND (A-3A). THE BORING THEN EXHIBITED 4.0 FEET OF MEDIUM STIFF SILT AND CLAY, 7.0 FEET OF MEDIUM DENSE GRAVEL WITH SAND (A-1-B), FOLLOWED BY 8.0 FEET OF VERY STIFF SILT AND CLAY (A-6A) AND SILT (A-4B). THE BORING THEN ENCOUNTERED 17 FEET OF MEDIUM DENSE TO DENSE COARSE AND FINE SAND (A-3A), UNDERLAIN BY VERY DENSE SAND LAYERS (A-3 AND A-3A) EXTENDING TO THE TERMINATION DEPTH OF THE BORING (74.4 FEET). DESIGN CALCULATIONS FOR THIS WALL ARE BASED ON THIS BORING.

WALL 2

UNDER THE AGGREGATE BASE, BORING B-046-0-20 ENCOUNTERED APPROXIMATELY 6.0 FEET OF STIFF SILT AND SOME CLAY (A-4B) FOLLOWED BY MEDIUM DENSE COARSE AND FINE SAND (A-3A). THE BORING THEN ENCOUNTERED OVER 10 FEET OF SILTY AND CLAY (A-6A).
UNDER THE CRUSHED AGGREGATE, BORING N-003-N-01 ENCOUNTERED:
- 6.5 FEET OF STIFF TO VERY STILL SANDY SILT (A-4A), FOLLOWED BY 15 FEET OF STIFF SILT (A-4B),
- 5.0 FEET OF MEDIUM DENSE SAND (A-3A) AND 7.5 FEET OF GRAVEL WITH SAND (A-1-B),
- 7.5 FEET OF HARD TO VERY STIFF SILT AND CLAY (A-6A),
- 5.0 FEET OF DENSE COARSE AND FINE SAND (A-3A) AND
- 31.5 FEET OF MEDIUM DENSE TO VERY DENSE, NON-COHESIVE SILT (A-4B), EXTENDING TO THE TERMINATION DEPTH OF THE BORING.

BORING B-046-0-20 AND N-003-N-01 WERE UTILIZED FOR DESIGN OF THIS WALL.

WALL 3

BORINGS B-053-0-20 THROUGH B-055-0-20 THAT WERE DRILLED AS CLOSE AS POSSIBLE TO WALL-3 ALIGNMENT REVEALED MOSTLY STIFF TO VERY STIFF SILT (A-4B), SANDY SILT (A-4A), AND COARSE AND FINE SANDS (A-3A). DETAILED DESCRIPTIONS OF THE ENCOUNTERED SOILS IN EACH FORMATION ARE PROVIDED BELOW:

- UNDER THE 0.5-FOOT-THICK TOPSOIL, BORING B-053--0-20 ENCOUNTERED APPROXIMATELY 15 FEET OF SILT (A-4B) FOLLOWED BY 12.5 FEET OF CLAYEY SILT (A-4B). THE BORING FINALLY EXHIBITED 9.0 FEET OF SANDY SILT (A-4A), EXTENDING TO THE TERMINATION DEPTH OF THE BORING.
- UNDER THE 0.5 FEET OF TOPSOIL, BORING B-054-0-20 ENCOUNTERED 5.5 FEET OF MEDIUM DENSE GRAVEL AND STONE FRAGMENTS WITH SAND (A-1-B), FOLLOWED BY 8.5 FEET OF SILT OF THE A-4B FORMATION. THE BORING FINALLY EXHIBITED 10.5 FEET OF MEDIUM DENSE SILT WITH SAND (A-4A), WHICH EXTENDED TO THE TERMINATION DEPTH OF THE BORING.
- BORING B-055-0-20 INITIALLY EXHIBITED 0.5 FEET OF TOPSOIL FOLLOWED BY 2.5 FEET OF MEDIUM STIFF SANDY SILT (A-4A), 3.0 FEET OF LOOSE GRAVEL WITH SAND AND SILT (A-2-4), FOLLOWED BY 5.0 FEET OF STIFF SILT. THE BORING THEN EXHIBITED 7.5 FEET OF CLAYEY SILT (A-4A) FOLLOWED BY 6.5 FEET OF SANDY SILT (A-4A) EXTENDING TO THE TERMINATION DEPTH OF THE BORING.

WALL 4

BORING B-060-0-20 ENCOUNTERED 16.0 FEET OF SILL WHICH INCLUDED 8.3 FEET OF SILT (A-4B), 5.0 FEET OF STIFF SANDY SILT OF THE A-4A FORMATION AND 2.5 FEET OF GRAVEL AND STONE FRAGMENTS WITH SAND AND CONCRETE FRAGMENTS (A-1-B). THE BORING THEN EXHIBITED 1.5 FEET OF CLAYEY SILT (A-4A) FOLLOWED BY 12.5 FEET OF SILT OF THE A-4B FORMATION, WHICH EXTENDED TO THE TERMINATION DEPTH OF THE BORING. BORING B-061-0-20 ENCOUNTERED APPROXIMATELY 6.0 FEET OF UNCONTROLLED FILL COMPOSED OF GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT (A-2-4), FOLLOWED BY 7.5 FEET OF GRAVEL AND STONE FRAGMENTS WITH SAND (A-1-B). THE BORING THEN EXHIBITED 5.0 FEET OF LOOSE FINE SAND (A-3) AND 5.0 FEET OF LOOSE COARSE AND FINE SAND (A-3A), FOLLOWED BY 6.5 FEET OF VERY STIFF CLAYEY SILT (A-4B).

WALLS 5A

BORINGS B-064-0-20 AND B-065-0-20 ENCOUNTERED 28.0 TO 28.5 FEET OF FILL COMPOSED OF MULTIPLE LAYERS OF GRAVEL AND STONE WITH SAND (A-1-A/A-1-B), SANDY SILT AND SILT WITH SLAG AT SIZES RANGING FROM GRAVEL TO SILT. TRC CONSIDERS THE MATERIAL UNCONTROLLED FILL DUE TO THE PRESENCE OF BRICKS AND SLAG. UNDER THE FILL LAYERS, THE BORINGS EXHIBITED 6.5 TO 7.0 FEET OF STIFF TO VERY STIFF SANDY SILT (A-4A),WHICH EXTENDED TO THE TERMINATION DEPTH OF THE BORING.

BORING B-066-0-20 ENCOUNTERED 11.0 FEET OF SLAG FILL COMPOSED OF GRAVEL AND STONE FRAGMENTS WITH SAND, FOLLOWED BY 5.0 FEET OF GRAVEL AND STONE FRAGMENTS WITH SAND (A-1-B). THE BORING THEN EXHIBITED 15.0 FEET OF LOOSE TO MEDIUM DENSE FINE SAND (A-3), FOLLOWED BY 9.0 FEET OF STIFF TO VERY STIFF SANDY SILT (A-4A), WHICH EXTENDED TO THE TERMINATION DEPTH OF THE BORING.

BORING B-067-0-20 INITIALLY ENCOUNTERED 3.5 FEET OF FILL, COMPOSED OF GRAVEL (A-1-A), FOLLOWED BY 2.5 FEET OF STIFF SILT (A-4B) AND 7.5 FEET OF GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT (A-2-4). THE BORING THEN ENCOUNTERED 6.5 FEET OF SILT (A-4B), FOLLOWED BY 7.5 FEET OF STIFF TO VERY STIFF CLAYEY SILT (A-4A). THE BORING THEN EXHIBITED 10.0 FEET OF STIFF SILT (A-4B) STIFF TO VERY STIFF CLAYEY SILT (A4A) EXTENDING TO THE BORING TERMINATION DEPTH. ONE FOOT OF SLAG FILL COMPOSED OF GRAVEL AND STONE FRAGMENTS WITH SAND, FOLLOWED BY 5.0 FEET OF GRAVEL AND STONE FRAGMENTS WITH SAND (A-1-B). THE BORING THEN EXHIBITED 15.0 FEET OF LOOSE TO MEDIUM DENSE FINE SAND (A-3), FOLLOWED BY 9.0 FEET OF STIFF TO VERY STIFF SANDY SILT (A-4A).

WALLS 5B

BORING B-068-0-20 INITIALLY ENCOUNTERED 6.0 FEET OF SLAG FILL OF SILT TO GRAVEL SIZES (CLASSIFIED AS A-2-4), FOLLOWED BY 10.0 FEET OF LOOSE SANDY SILT (A-4A). THE BORING THEN REVEALED 27.0 FEET OF VERY STIFF SILT, FOLLOWED BY 16.5 FEET OF CLAYEY SILT (A-4A) WHICH CONTINUED TO THE TERMINATION DEPTH OF THE BORING.

BORING B-070-0-20 INITIALLY ENCOUNTERED 8.5 FEET OF SLAG FILL COMPOSED OF GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT (A-2-4) UNDERLAIN BY 6.0 FEET OF SOFT SANDY SILT. THE BORING THEN ENCOUNTERED 75 FEET OF STIFF TO VERY STIFF SILT WITH SOME CLAY (A-4B), FOLLOWED BY 21.5 FEET OF STIFF SANDY SILT (A-4A) EXTENDING TO THE TERMINATION DEPTH OF THE BORINGS.
UNDER THE THIN TOPSOIL AND 1.5-FOOT-THICK GRAVEL AND SAND FILL (A-1-B), BORING B-026-0-18 ENCOUNTERED THE FOLLOWING LAYERS IN ASCENDING DEPTH ORDER:
- MULTIPLE FILL MATERIAL COMPOSED OF THIN LAYERS OF VERY STIFF OR HARD SANDY SILT (A-4A), LOOSE SAND (A-3A), AND VERY STIFF SILT (A-4B) DOWN TO THE APPROXIMATE DEPTH OF 11.8 FT.
- 5.0 FEET OF POSSIBLE FILL COMPOSED OF MEDIUM STIFF ELASTIC SILT AND CLAY (A-4A) WITH POSSIBLE BOULDER AT THE BOTTOM OF THIS LAYER,
- 18.7 FEET OF VERY STIFF SILT (A-4B),
- 11.3 FEET OF STIFF SILT AND CLAY (A-6A),
- 2.0 FEET OF MEDIUM DENSE SILT (A-4B), UNDERLAIN BY 0.7 FEET OF VERY STIFF SILT AND CLAY (A-6A) EXTENDING TO THE TERMINATION DEPTH OF THE BORING AT 50.0 FEET.

UNDER THE PAVEMENT AND GRANULAR BASE, B-004-0-12 ENCOUNTERED FILL LAYERS CONSISTING OF 2.5 FEET OF MEDIUM DENSE SANDY SILT (A-4B) FOLLOWED BY 2.5 FEET OF STIFF CLAY AND SILT (A-7-6). THE BORING THEN ENCOUNTERED 62 FEET THICK ALTERNATING SANDY SOILS OF THE A-3A AND A-3 FORMATION, DESCRIBED MOSTLY AS MEDIUM DENSE TO DENSE, EXTENDING TO THE TERMINATION DEPTH OF THE BORING.

EXPLORATION FINDINGS (CONT.)

WALLS 5C

UNDER THE CONCRETE AND GRANULAR BASE, BORING B-006-00-12 ENCOUNTERED THE FOLLOWING LAYERS IN ASCENDING DEPTH ORDER:
- 7.0 FEET OF MEDIUM DENSE FINE SAND (A-3),
- 2.5 FEET OF LOOSE SANDY SILT (A-4A),
- 15.0 FEET OF MEDIUM DENSE TO DENSE COARSE AND FIND SAND (A-3A), UNDERLAIN BY MEDIUM DENSE TO DENSE SILT, SOME CLAY (A-4B),
- 50.0 FEET OF STIFF TO VERY STIFF SILT AND CLAY (A-6A),
- 4.5 FEET OF MEDIUM STIFF TO STIFF SILT AND CLAY (A-4B),
- 8.5 FEET OF SILT AND CLAY, EXTENDING TO THE TERMINATION DEPTH OF THE BORINGS.

WALL 6

UNDER THE 8-INCH-THICK ASPHALT, 9-INCH-THICK CONCRETE AND THE 1.1-THICK GRANULAR BASE, THE ROADWAY STIFF SILT AND CLAY (A-6A) AND 1.5 FEET OF MEDIUM STIFF SILTY CLAY (A-6B). THE BORING WAS TERMINATED AFTER EXHIBITING 1.5 FEET OF MEDIUM DENSE SANDY SILT.
GIVEN THE SMALL GRADE DIFFERENCE ON BOTH SIDES OF THE WALL (LESS THAN 2.0 FEET), THIS SHALLOW BORING CAN BE CONSIDERED ADEQUATE FOR EVALUATING THE STABILITY OF THE WALL WITH A LEVEL OF CONSERVATISM.

WALL 7 AND MORGANA RUN TRAIL CULVERT STRUCTURE

BORINGS B-070-0-20 AND B-071-0-20 INITIALLY OBSERVED 5.0 AND 2.5 FEET, RESPECTIVELY, OF SLAG FILL WITH SIZES RANGING FROM SILT TO GRAVEL. BORING B-070-0-20 THEN EXHIBITED 3.5 FEET OF GRAVEL AND STONE FRAGMENTS WITH SAND (A-1-B) FOLLOWED BY 5.5 FEET OF MEDIUM STIFF TO STIFF SANDY SILT (A-4A),WHEREAS BORING B-071-0-20 ENCOUNTERED 3.5 FEET OF FINE SAND (A-3) AND 2.5 FEET OF GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT (A-2-4). FOR THE MAINLINING DEPTHS, THE TWO BORINGS ENCOUNTERED ALTERNATING LAYERS OF SILT (A-4B), CLAYEY OR SANDY SILT (A-4A).

SPECIFICATIONS

THIS GEOTECHNICAL EXPLORATION WAS PERFORMED IN ACCORDANCE WITH THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, OFFICE OF GEOTECHNICAL ENGINEERING,SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS, REVISION DATED JULY 17, 2019.

AVAILABLE INFORMATION

THE SOIL AND GROUNDWATER INFORMATION COLLECTED FOR THIS SUBSURFACE EXPLORATION THAT CAN BE CONVENIENTLY DISPLAYED ON THE SOIL PROFILE SHEETS HAS BEEN PRESENTED. GEOTECHNICAL REPORTS, IF PREPARED, ARE AVAILABLE FOR REVIEW ON THE OFFICE OF CONTRACT SALES WEBSITE.

Preliminary Plans - For Reference Only

DESIGN AGENCY
TRC

DESIGNER
NMC

REVIEWER
SDM 05/01/26

PROJECT ID
105743

SUBSET 3 | TOTAL 85

SHEET P.1187 | TOTAL P.1269

CUY-77-11.41

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 10:57:31 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZC003.dgn

"SUMMARY OF SOIL TEST DAT A, CU Y-77-11.41, PID 105743"

EXPLOR. ID	STATION,	OFF	SET	LAT/NORTH	LONG/EAST	FROM-TO	SAMPLE ID	N60	% REC	tsf HP	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-001-0-18	75+42,	38'	RT.	41.43881	-81.64963	01.50-02.80	SS-1A	35	28	-	GRAVEL WITH SAND								11	A-1-b (VISUAL)	<100
						02.80-03.00	SS-1B	-	-	-	SANDY SILT								-	A-4a (VISUAL)	-
						03.00-03.20	SS-2A	11	83	-	SAME AS SS-1B								7	A-4a (VISUAL)	130
						03.20-04.25	SS-2B	-	-	-	FINE SAND								-	A-3 (VISUAL)	-
						04.25-04.50	SS-2C	-	-	-	SAME AS SS-3A								-	A-4b (VISUAL)	-
						04.50-05.65	SS-3A	10	78	0.75	0	1	2	65	32	31	21	10	26	A-4b (8)	-
						05.65-06.00	SS-3B	-	-	-	FINE SAND								-	A-3 (VISUAL)	-
						06.00-07.50	SS-4	15	56	-	46	42	8	4	0	NP	NP	NP	6	A-1-b (0)	-
B-002-0-18	78+71,	39'	LT.	41.43881	-81.64963	01.60-01.90	SS-1A	18	72	-	59	19	13	9	0	NP	NP	NP	6	A-1-a (0)	-
						01.90-02.10	SS-1B	-	-	1	SANDY SILT								-	A-4a (VISUAL)	-
						02.10-03.10	SS-1C	-	-	-	SAME AS SS-2								8	A-1-b (VISUAL)	310
						03.10-04.60	SS-2	23	72	-	22	62	7	8	1	NP	NP	NP	5	A-1-b (0)	230
						04.60-06.10	SS-3	25	83	-	40	50	7	3	0	NP	NP	NP	5	A-1-b (0)	-
						06.10-07.60	SS-4	23	67	-	SAME AS SS-3								9	A-1-b (VISUAL)	-
B-003-0-18	83+15,	39'	RT.	41.44091	-81.65014	01.50-03.00	SS-1	38	83	-	SAME AS SS-2								5	A-1-b (VISUAL)	240
						03.00-04.50	SS-2	35	61	-	13	57	22	8	0	NP	NP	NP	5	A-1-b (0)	<100
						04.50-06.00	SS-3	10	61	-	SAME AS SS-4								11	A-1-a (VISUAL)	-
						06.00-07.50	SS-4	8	61	-	67	21	7	4	1	NP	NP	NP	11	A-1-a (0)	-
B-004-0-18	87+04,	52'	LT.	41.44189	-81.65086	01.40-01.60	SS-1A	13	89	-	FINE SAND								16	A-3 (VISUAL)	-
						01.60-01.90	SS-1B	-	-	2.5	SANDY SILT (FILL)								-	A-4a (VISUAL)	-
						01.90-02.90	SS-1C	-	-	-	GRAVEL WITH SAND (FILL)								5	A-1-b (VISUAL)	<100
						03.00-04.50	SS-2	18	89	-	3	53	38	4	2	NP	NP	NP	7	A-1-b (0)	260
						04.50-06.00	SS-3	21	83	-	SAME AS SS-4								5	A-1-a (VISUAL)	-
						06.00-07.50	SS-4	23	83	-	56	36	4	4	0	NP	NP	NP	5	A-1-a (0)	-
B-005-0-18	91+14,	39'	RT.	41.44292	-81.65131	02.00-03.10	SS-1B	-	-	-	53	17	14	16	0	NP	NP	NP	7	A-1-b (0)	200
						03.10-03.30	SS-2A	15	83	-	SAME AS SS-1B								-	A-1-b (VISUAL)	-
						03.30-04.00	SS-2B	-	-	1.25	9	12	11	54	14	26	17	9	15	A-4b (7)	460
						04.00-04.60	SS-2C	-	-	-	SAME AS SS-3								-	A-4b (VISUAL)	-
						04.60-06.10	SS-3	10	61	-	2	4	10	74	10	NP	NP	NP	20	A-4b (8)	-
						06.10-07.60	SS-4	8	78	-	SAME AS SS-3								28	A-4b (VISUAL)	-
B-006-0-18	94+44,	39'	LT.	41.44368	-81.6521	01.20-02.00	SS-1A	23	89	-	59	17	12	11	1	NP	NP	NP	7	A-1-a (0)	-
						02.00-02.70	SS-1B	-	-	4.5+	SANDY SILT (FILL)								11	A-4a (VISUAL)	530
						03.00-03.40	SS-2A	24	83	3	0	2	1	62	35	25	18	7	20	A-4b (8)	520
						03.40-03.70	SS-2B	-	-	-	SILT								-	A-4b (VISUAL)	-
						03.70-04.50	SS-2C	-	-	-	SAME AS SS-4								-	A-1-b (VISUAL)	-
						04.50-05.00	SS-3A	17	78	-	SAME AS SS-4								4	A-1-b (VISUAL)	-
						05.00-06.00	SS-3B	-	-	-	SAME AS SS-4								5	A-1-b (VISUAL)	-
						06.00-07.50	SS-4	13	89	-	3	79	9	9	0	NP	NP	NP	4	A-1-b (0)	-
B-007-0-18	98+94,	39'	RT.	41.44477	-81.65275	01.50-03.00	SS-1	23	56	-	50	24	13	12	1	NP	NP	NP	7	A-1-a (0)	380
						03.00-04.50	SS-2	24	50	-	COARSE AND FINE SAND								12	A-3a (VISUAL)	200
						04.50-06.00	SS-3	25	67	2.5	4	14	10	69	3	NP	NP	NP	16	A-4b (7)	-
						06.00-07.50	SS-4	6	72	-	FINE SAND								23	A-3 (VISUAL)	-
B-008-0-18	102+91,	56'	LT.	41.44553	-81.65395	01.50-01.83	SS-1	50/4"	100	-	66	26	2	4	2	NP	NP	NP	11	A-1-a (0)	1700
						03.00-03.46	SS-2	50/6"	100	-	SAND WITH GRAVEL								17	A-1-b (VISUAL)	2600
						04.50-06.00	SS-3	11	89	2.5	2	0	1	79	18	28	20	8	20	A-4b (8)	-
						06.00-07.50	SS-4	14	56	3.38	SAME AS SS-3								19	A-4b (VISUAL)	-
B-009-0-18	107+02,	38'	RT.	41.44655	-81.65448	01.50-03.00	SS-1	41	67	-	GRAVEL WITH SAND								8	A-2-4 (VISUAL)	450
						03.00-04.50	SS-2	37	67	-	6	63	19	10	2	NP	NP	NP	8	A-1-b (0)	<100
						04.50-06.00	SS-3	15	67	-	SAME AS SS-2								6	A-1-b (VISUAL)	-
						06.00-07.00	SS-4A	11	72	-	32	61	5	1	1	NP	NP	NP	16	A-1-b (0)	-
						07.00-07.50	SS-4B	-	-	2	SILT AND CLAY								-	A-6a (VISUAL)	-
B-010-0-18	110+99,	39'	LT.	41.44744	-81.65543	01.20-02.70	SS-1	17	72	-	GRAVEL WITH SAND AND SILT								8	A-2-4 (VISUAL)	100
						03.00-03.60	SS-2A	10	83	-	4	11	14	55	16	NP	NP	NP	23	A-4b (7)	160
N-001-N-01	95+62.07	85.49'	LT.	-	-	01.00-02.50	SS-1	13	-	-	GRAVEL AND ROCK FRAGMENTS (FILL)								11	A-1-a (VISUAL)	-
						03.50-05.00	SS-2	14	-	-	GRAVEL AND ROCK FRAGMENTS (FILL)								13	A-1-a (VISUAL)	-
						06.00-02.50	SS-3	11	-	-	GRAVEL AND ROCK FRAGMENTS (FILL)								15	A-1-a (VISUAL)	-
						08.50-10.00	SS-4	5	-	-	GRAVEL AND ROCK FRAGMENTS (FILL)								22	A-1-a (VISUAL)	-
						13.50-15.00	SS-5	9	-	-	SANDY SILT								23	A-4A (VISUAL)	-
						18.50-20.00	SS-6	4	-	-	COARSE AND FINE SAND								12	A-3a (VISUAL)	-
						23.50-25.00	SS-7	4	-	-	SILT (NON-COHESIVE)								33	A-4b (VISUAL)	-
						26.00-27.50	SS-8	7	-	-	SILT (NON-COHESIVE)								24	A-4b (VISUAL)	-

Preliminary Plans – Not For Reference Only

GEOTECHNICAL PROFILE - ROADWAY

DESIGN AGENCY
TRC

DESIGNER
EB

REVIEWER
SDM 05/01/26

PROJECT ID
105743

SUBSET 4 | TOTAL 85

SHEET P.1188 | TOTAL P.1269

CUY-77-11.41

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 10:57:39 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\v00-Engineering\Geotechnical\Sheets\105743_TC001.dgn

"SUMMARY OF SOIL TEST DAT A, CU Y-77-11.41, PID 105743"

EXPLOR. ID	STATION,	OFF	SET	LAT/NORTH	LONG/EAST	FROM-TO	SAMPLE ID	N60	% REC	tsf HP	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-010-0-18	110+99,	39'	LT.	41.44744	-81.65543	03.60-04.50	SS-2B	-	-	1.25	SILT								-	A-4b (VISUAL)	-
						04.50-05.20	SS-3A	17	83	-	2	2	11	82	3	NP	NP	NP	13	A-4b (8)	-
						05.20-06.00	SS-3B	-	-	3	SAME AS SS-3A								-	A-4b (VISUAL)	-
						06.00-06.50	SS-4A	17	89	2.5	SAME AS SS-3A								14	A-4b (VISUAL)	-
						06.50-07.00	SS-4B	-	-	-	SANDY SILT								-	A-4a (VISUAL)	-
						07.00-07.50	SS-4C	-	-	4.5	SILT								-	A-4b (VISUAL)	-
B-011-0-18	114+97,	38'	RT.	41.4485	-81.65574	01.50-03.00	SS-1	15	44	-	GRAVEL WITH SAND								9	A-1-b (VISUAL)	170
						03.00-04.50	SS-2	20	67	3.92	4	8	7	61	20	26	17	9	16	A-4b (8)	810
						04.50-06.00	SS-3	65	67	-	2	32	26	39	1	NP	NP	NP	9	A-4a (1)	-
						06.00-07.50	SS-4	28	72	4	SILT								15	A-4b (VISUAL)	-
B-012-0-18	118+90,	39'	LT.	41.44949	-81.65659	01.45-02.30	SS-1A	7	83	-	35	33	16	14	2	NP	NP	NP	9	A-1-b (0)	-
						02.30-02.95	SS-1B	-	-	1	SAME AS SS-2A								19	A-4a (VISUAL)	530
						03.00-03.75	SS-2A	18	89	-	1	16	28	48	7	NP	NP	NP	15	A-4a (4)	480
						03.75-04.50	SS-2B	-	-	-	SAME AS SS-2A								-	A-4a (VISUAL)	-
						04.50-05.10	SS-3A	14	78	-	SAME AS SS-2A								-	A-4a (VISUAL)	-
						05.10-06.00	SS-3B	-	-	4.5+	SILT								-	A-4b (VISUAL)	-
						06.00-07.50	SS-4	13	78	2.67	SILT								19	A-4b (VISUAL)	-
B-013-0-18	124+05,	53'	RT.	41.45087	-81.65668	01.50-03.00	SS-1	14	44	-	62	14	8	16	0	NP	NP	NP	13	A-1-b (0)	960
						03.00-04.50	SS-2	10	72	2.42	SAME AS SS-4								18	A-4b (VISUAL)	1100
						04.50-06.00	SS-3	8	56	1.67	SAME AS SS-4								20	A-4b (VISUAL)	-
						06.00-07.50	SS-4	10	100	1.58	0	0	1	72	27	27	19	8	21	A-4b (8)	-
B-014-0-18	126+88,	51'	LT.	41.4516	-81.65716	01.20-02.70	SS-1	80	44	-	50	44	2	3	1	NP	NP	NP	9	A-1-b (0)	1000
						03.00-04.50	SS-2	28	83	4.33	SAME AS SS-3								12	A-4b (VISUAL)	320
						04.50-06.00	SS-3	15	94	3.83	6	9	11	59	15	24	20	4	15	A-4b (8)	-
						06.00-07.50	SS-4	20	89	4.42	SAME AS SS-3								15	A-4b (VISUAL)	-
B-015-0-18	131+63,	39'	RT.	41.4529	-81.65696	01.50-02.20	SS-1A	52	94	-	GRAVEL WITH SAND AND SILT (FILL)								9	A-2-4 (VISUAL)	280
						02.20-03.00	SS-1B	-	-	-	19	55	11	14	1	NP	NP	NP	6	A-1-b (0)	-
						03.00-04.50	SS-2	34	100	4	SAME AS SS-4								14	A-4b (VISUAL)	400
						04.50-06.00	SS-3	41	78	4.5	SAME AS SS-4								13	A-4b (VISUAL)	-
						06.00-07.50	SS-4	18	100	3.92	0	1	2	68	29	27	20	7	19	A-4b (8)	-
B-016-0-18	134+90,	40'	LT.	41.4538	-81.65732	01.50-03.00	SS-1	89	61	-	64	33	1	2	0	NP	NP	NP	10	A-1-a (0)	140
						03.00-04.50	SS-2	24	94	4.5+	4	14	17	49	16	24	17	7	13	A-4a (6)	-
						04.50-05.50	SS-3A	35	100	3.08	SILT (FILL)								9	A-4b (VISUAL)	360
						05.50-06.00	SS-3B	-	-	-	COARSE AND FINE SAND								11	A-3a (VISUAL)	-
						06.00-07.50	SS-4	28	100	-	SANDY SILT								12	A-4a (VISUAL)	-
B-017-0-18	138+88,	38'	RT.	41.45486	-81.65706	01.50-02.80	SS-1A	25	94	-	52	23	13	10	2	NP	NP	NP	8	A-1-a (0)	100
						02.80-03.00	SS-1B	-	-	-	SAME AS SS-3								-	A-4b (VISUAL)	-
						03.00-04.50	SS-2	21	83	1.33	SAME AS SS-3								20	A-4b (VISUAL)	710
						04.50-06.00	SS-3	8	72	1.17	1	0	0	77	22	24	18	6	21	A-4b (8)	-
						06.00-07.50	SS-4	14	78	0.5	SAME AS SS-3								21	A-4b (VISUAL)	-
B-018-0-18	142+99,	39'	LT.	41.456	-81.65743	01.25-02.75	SS-1	24	44	-	GRAVEL WITH SAND								8	A-1-b (VISUAL)	170
						03.00-04.50	SS-2	14	44	-	5	27	60	5	3	NP	NP	NP	23	A-3 (0)	160
						04.50-06.00	SS-3	17	83	-	SAME AS SS-2								27	A-3 (VISUAL)	-
						06.00-07.50	SS-4	23	89	-	0	13	82	3	2	NP	NP	NP	22	A-3 (0)	-
B-019-0-18	146+86,	39'	RT.	41.45708	-81.65709	01.50-03.00	SS-1	25	67	-	57	24	10	7	2	NP	NP	NP	6	A-1-a (0)	<100
						03.00-04.50	SS-2	31	83	-	GRAVEL WITH SAND AND SILT (FILL)								4	A-2-4 (VISUAL)	<100
						04.50-06.00	SS-3	34	83	-	3	18	70	6	3	NP	NP	NP	6	A-3 (0)	-
						06.00-07.50	SS-4	25	67	-	GRAVEL WITH SAND								6	A-1-b (VISUAL)	-
B-020-0-18	151+03,	39'	LT.	41.45829	-81.6573	01.50-02.00	SS-1A	30	89	-	STONE FRAGMENTS WITH SAND (FILL)								8	A-1-b (VISUAL)	-
						02.00-03.00	SS-1B	-	-	-	58	20	10	10	2	NP	NP	NP	8	A-1-a (0)	240
						03.00-03.10	SS-2A	31	72	-	SAME AS SS-1B								-	A-1-a (VISUAL)	-
						03.10-04.50	SS-2B	-	-	4.5+	0	0	5	72	23	26	20	6	14	A-4b (8)	1100
						04.50-05.20	SS-3A	21	100	4.13	SAME AS SS-2B								16	A-4b (VISUAL)	-

Preliminary Plans - For Reference Only

GEOTECHNICAL PROFILE - ROADWAY

DESIGN AGENCY TRC

DESIGNER EB

REVIEWER SDM 05/01/26

PROJECT ID 105743

SUBSET 5 | TOTAL 85

SHEET P.1189 | TOTAL P.1269

CUY-77-11.41

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 10:57:45 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\v00-Engineering\Geotechnical\Sheets\105743_TC002.dgn

"SUMMARY OF SOIL TEST DAT A, CU Y-77-11.41, PID 105743"

EXPLOR. ID	STATION,	OFF	SET	LAT/NORTH	LONG/EAST	FROM-TO	SAMPLE ID	N60	% REC	tsf HP	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-020-0-18	151+03,	39'	LT.	41.45829	-81.6573	05.20-05.50	SS-3B	-	-	-	SILT								-	A-4b (VISUAL)	-
						05.50-06.00	SS-3C	-	-	-	FINE SAND								-	A-3 (VISUAL)	-
						06.00-06.90	SS-4A	30	100	-	FINE SAND								18	A-3 (VISUAL)	-
						06.90-07.50	SS-4B	-	-	2.25	SILT								18	A-4b (VISUAL)	-
B-021-0-18	154+83,	52'	RT.	41.45923	-81.65685	01.50-03.00	SS-1	37	89	-	47	24	15	12	2	NP	NP	NP	7	A-1-b (0)	460
						03.00-03.90	SS-2A	24	100	3.5	SANDY SILT								14	A-4a (VISUAL)	560
						03.90-04.50	SS-2B	-	-	4	SAME AS SS-3								-	A-6a (VISUAL)	-
						04.50-06.00	SS-3	14	72	1.25	0	0	4	44	52	32	19	13	24	A-6a (9)	-
						06.00-07.50	SS-4	14	83	0.67	SILT AND CLAY								17	A-6a (VISUAL)	-
B-022-0-18	159+05,	40'	LT.	41.46041	-81.65716	01.42-02.08	SS-1	30/50/2"	100	-	STONE FRAGMENTS WITH SAND								11	A-1-b (VISUAL)	1500
						03.00-03.30	SS-2A	15	56	-	SANDY SILT								-	A-4a (VISUAL)	-
						03.30-04.50	SS-2B	-	-	2.88	0	0	1	50	49	31	19	12	22	A-6a (9)	1200
						04.50-06.00	SS-3	13	78	0.58	0	0	1	30	69	39	23	16	27	A-6b (10)	-
						06.00-06.20	SS-4A	25	83	1	SAME AS SS-3								16	A-6b (VISUAL)	-
						06.20-07.50	SS-4B	-	-	-	SANDY SILT								-	A-4a (VISUAL)	-
B-023-0-18	162+87,	39'	RT.	41.46149	-81.65697	01.50-02.50	SS-1A	21	94	-	GRAVEL WITH SAND								8	A-1-b (VISUAL)	120
						02.50-03.00	SS-1B	-	-	2.25	SILT								-	A-4b (VISUAL)	-
						03.00-04.00	SS-2A	17	83	4.5	4	11	7	56	22	24	20	4	17	A-4b (8)	530
						04.00-04.50	SS-2B	-	-	4.5	SAME AS SS-3								-	A-4b (VISUAL)	-
						04.50-06.00	SS-3	15	100	2.33	0	0	4	64	32	25	18	7	20	A-4b (8)	-
						06.00-07.50	SS-4	23	72	4.5	SAME AS SS-3								17	A-4b (VISUAL)	-
B-024-0-18	166+86,	40'	LT.	41.46254	-81.65734	01.42-02.08	SS-1	20/50/2"	100	-	STONE FRAGMENTS								10	A-1-a (VISUAL)	<100
						03.00-04.50	SS-2	38	83	4.5+	14	11	10	58	7	25	21	4	14	A-4b (6)	400
						04.50-06.00	SS-3	31	83	-	5	8	38	37	12	NP	NP	NP	13	A-4a (3)	-
						06.00-06.20	SS-4A	17	83	-	SAME AS SS-3								15	A-4a (VISUAL)	-
						06.20-07.50	SS-4B	-	-	4.42	SILT								-	A-4b (VISUAL)	-
B-025-0-18	169+65,	54'	RT.	41.46326	-81.65725	01.00-01.92	SS-1	8/50/5"	64	-	53	24	16	5	2	NP	NP	NP	14	A-1-a (0)	-
						03.50-05.00	SS-2	17	89	-	52	15	19	-	-	NP	NP	NP	11	A-1-b (0)	-
						06.00-06.70	SS-3A	11	89	-	0	0	49	46	5	NP	NP	NP	22	A-4a (3)	-
						06.70-06.80	SS-3B	-	-	0.75	SANDY SILT								-	A-4b (VISUAL)	-
						06.80-07.50	SS-3C	-	-	-	SAME AS SS-4								-	A-4a (VISUAL)	-
						08.50-10.00	SS-4	11	78	-	0	1	63	31	5	NP	NP	NP	27	A-4a (0)	-
						13.50-15.00	SS-5	35	94	-	SANDY SILT								23	A-4a (VISUAL)	-
						18.50-20.00	SS-6	17	83	4.08	2	0	1	73	24	25	19	6	19	A-4b (8)	-
						23.50-25.00	SS-7	8	89	0.5	SILT								27	A-4b (VISUAL)	-
						28.50-30.00	SS-8	11	100	0.67	0	0	0	65	35	26	19	7	32	A-4b (8)	-
						31.00-33.00	ST-1	ST	100	-	0	0	1	86	13	NP	NP	NP	28	A-4b (8)	-
						33.00-34.50	SS-9	8	94	-	SAME AS ST-1								27	A-4b (VISUAL)	-
						38.50-40.00	SS-10	13	94	0.75	1	0	1	45	53	33	19	14	26	A-6a (10)	-
						43.50-45.00	SS-11	20	100	1.5	SAME AS SS-10								24	A-6a (VISUAL)	-
						48.50-50.00	SS-12	21	94	2	SAME AS SS-10								-	A-6a (VISUAL)	-
B-026-0-18	171+20,	74'	LT.	41.4637	-81.65788	01.00-01.70	SS-1A	25	78	-	23	39	22	12	4	NP	NP	NP	17	A-1-b (0)	-
						01.70-02.50	SS-1B	-	-	2.25	1	16	26	35	22	17	14	3	15	A-4a (4)	-
						03.50-03.80	SS-2A	10	78	-	3	43	31	14	9	NP	NP	NP	9	A-3a (0)	-
						03.80-04.40	SS-2B	-	-	-	SAME AS SS-2A								-	A-3a (VISUAL)	-
						04.40-05.00	SS-2C	-	-	-	0	3	7	58	32	26	18	8	18	A-4b (8)	-
						06.00-06.60	SS-3A	6	67	-	3	24	52	11	10	NP	NP	NP	13	A-3a (0)	-
						06.60-07.50	SS-3B	-	-	4.5+	SANDY SILT								17	A-4a (VISUAL)	-
						08.50-09.50	SS-4A	6	78	1	5	10	17	37	31	27	17	10	21	A-4a (7)	-
						09.50-10.00	SS-4B	-	-	-	SANDY SILT								17	A-4a (VISUAL)	-
						13.50-15.00	SS-5	10	78	0.7	0	5	34	31	30	25	15	10	22	A-4a (5)	-
						18.50-20.00	SS-6	13	83	2.67	SAME AS SS-7								21	A-4b (VISUAL)	-
						23.50-25.00	SS-7	11	100	0.6	0	0	1	68	31	27	21	6	25	A-4b (8)	-
						28.50-30.00	SS-8	11	94	0.65	SAME AS SS-9								26	A-4b (VISUAL)	-
						33.50-35.00	SS-9	8	100	0.83	0	0	0	67	33	28	20	8	26	A-4b (8)	-

Preliminary Plans - For Reference Only

GEOTECHNICAL PROFILE - ROADWAY

CUY-77-11.41

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 10:57:52 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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DESIGN AGENCY: TRC

DESIGNER: EB

REVIEWER: SDM 05/01/26

PROJECT ID: 105743

SUBSET: 6 TOTAL: 85

SHEET: P.1190 TOTAL: P.1269

"SUMMARY OF SOIL TEST DAT A, CU Y-77-11.41, PID 105743"

EXPLOR. ID	STATION,	OFF	SET	LAT/NORTH	LONG/EAST	FROM-TO	SAMPLE ID	N60	% REC	tsf HP	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-026-0-18	171+20,	74'	LT.	41.4637	-81.65788	35.50-37.50	ST-2	ST	100	2.13	SAME AS SS-10								-	A-6a (VISUAL)	-
						38.50-40.00	SS-10	13	100	1.75	1	0	0	53	46	31	20	11	24	A-6a (8)	-
						43.50-45.00	SS-11	17	100	1.92	SAME AS SS-10								23	A-6a (VISUAL)	-
						48.50-49.30	SS-12A	23	100	-	0	0	0	90	10	NP	NP	NP	19	A-4b (8)	-
						49.30-50.00	SS-12B	-	-	2.13	SILT AND CLAY								23	A-6a (VISUAL)	-
B-027-0-18	171+09,	38'	RT.	41.4637	-81.65742	01.00-02.50	SS-1	44	72	-	GRAVEL WITH SAND (FILL)								7	A-1-b (VISUAL)	620
						02.50-04.00	SS-2	17	72	4.5+	58	25	10	6	1	NP	NP	NP	14	A-1-a (0)	2900
						04.00-04.30	SS-3A	52	83	2.25	SANDY SILT								13	A-4a (VISUAL)	-
						04.30-05.50	SS-3B	-	-	-	SANDY SILT								-	A-4a (VISUAL)	-
						05.50-07.00	SS-4	37	83	-	12	16	29	27	16	23	18	5	14	A-4a (2)	-
B-028-0-18	174+35,	40'	LT.	41.46459	-81.65788	01.19-01.40	SS-1A	20	78	-	GRAVEL WITH SAND (FILL)								-	A-1-b (VISUAL)	-
						01.40-02.70	SS-1B	-	-	-	6	17	16	56	5	NP	NP	NP	15	A-4b (5)	280
						02.70-03.40	SS-2A	23	100	-	10	24	18	40	8	NP	NP	NP	18	A-4a (3)	570
						03.40-04.20	SS-2B	-	-	-	24	33	19	17	7	NP	NP	NP	9	A-1-b (0)	-
						04.20-05.00	SS-3A	5/18/50/2"	93	2	SILT								15	A-4b (VISUAL)	-
						05.00-05.37	SS-3B	-	-	-	60	26	9	4	1	NP	NP	NP	9	A-1-a (0)	-
						06.00-06.33	SS-4	50/4"	100	-	STONE FRAGMENTS WITH SAND (FILL)								8	A-1-a (VISUAL)	-
B-031-0-18	179+09,	38'	RT.	41.46591	-81.65789	01.50-03.00	SS-1	23	67	2	10	13	18	45	14	23	16	7	16	A-4a (5)	460
						03.00-04.50	SS-2	21	72	4.5+	SANDY SILT								16	A-4a (VISUAL)	600
						04.50-06.00	SS-3	23	83	3.75	SANDY SILT								17	A-4a (VISUAL)	-
						06.00-06.40	SS-4A	8/15/50/1"	92	1.75	SANDY SILT								-	A-4a (VISUAL)	-
						06.40-07.08	SS-4B	-	-	-	26	13	33	17	11	18	14	4	10	A-2-4 (0)	-
B-032-0-18	182+84,	50'	LT.	41.4668	-81.65861	01.40-02.90	SS-1	6	61	-	SAME AS SS-2								6	A-1-a (VISUAL)	<100
						02.90-04.40	SS-2	6	67	-	95	3	1	-	-	NP	NP	NP	6	A-1-a (0)	-
						04.40-05.90	SS-3	13	56	-	STONE FRAGMENTS (FILL)								11	A-1-a (VISUAL)	-
						05.90-07.40	SS-4	8	28	-	GRAVEL (FILL)								-	A-1-a (VISUAL)	-
B-033-0-18	186+95,	51'	RT.	41.46798	-81.65877	01.76-03.00	SS-1B	-	-	-	GRAVEL WITH SAND AND SILT (FILL)								14	A-2-4 (VISUAL)	6500
						03.00-04.50	SS-2	41	72	-	78	15	3	3	1	NP	NP	NP	11	A-1-a (0)	6600
						04.50-06.00	SS-3	15	72	2.83	1	2	8	72	17	22	18	4	18	A-4b (8)	-
						06.00-07.50	SS-4	11	72	2	SAME AS SS-3								17	A-4b (VISUAL)	-
B-034-0-18	191+92,	40'	LT.	41.46932	-81.65964	01.50-02.10	SS-1A	25	94	-	8	52	24	15	1	NP	NP	NP	51	A-1-b (0)	-
						02.10-03.00	SS-1B	-	-	4.5+	SAME AS SS-2								12	A-4b (VISUAL)	550
						03.00-04.50	SS-2	24	83	-	3	4	28	55	10	NP	NP	NP	13	A-4b (6)	510
						04.50-05.75	SS-3A	15	100	-	1	21	61	9	8	NP	NP	NP	16	A-3a (0)	-
						05.75-06.00	SS-3B	-	-	2.5	SILT AND CLAY								-	A-6a (VISUAL)	-
						06.00-07.50	SS-4	6	72	-	36	29	20	11	4	19	14	5	9	A-1-b (0)	-
B-035-0-18	194+98,	41'	RT.	41.47004	-81.65958	01.50-01.80	SS-1A	14	100	-	0	56	27	17		NP	NP	NP	60	A-1-b (0)	
						01.80-02.50	SS-1B	-	-	-	SAME AS SS-1A								-	A-1-b (VISUAL)	-
						02.50-03.00	SS-1C	-	-	1	SANDY SILT								17	A-4a (VISUAL)	1000
						03.00-04.50	SS-2	24	89	4.5	SAME AS SS-3								12	A-4a (VISUAL)	320
						04.50-06.00	SS-3	39	78	4.5+	7	13	40	28	12	17	16	1	10	A-4a (1)	-
						06.00-07.50	SS-4	25	78	4.5+	SAME AS SS-3								11	A-4a (VISUAL)	-
B-036-0-18	198+34,	46'	LT.	41.47092	-81.66005	01.10-02.10	SS-1A	10	94	-	19	38	15	26	2	NP	NP	NP	13	A-3a (0)	140
						02.10-02.60	SS-1B	-	-	-	SAME AS SS-3A								-	A-4a (VISUAL)	-
						03.00-04.50	SS-2	12	89	-	SAME AS SS-3A								18	A-4a (VISUAL)	2000
						04.50-05.50	SS-3A	15	78	-	4	7	42	39	8	NP	NP	NP	19	A-4a (2)	-
						05.50-06.00	SS-3B	-	-	-	SAME AS SS-4A								-	A-4b (VISUAL)	-
						06.00-06.50	SS-4A	9	89	-	0	0	29	65	6	NP	NP	NP	25	A-4b (7)	-
						06.50-07.50	SS-4B	-	-	-	SAME AS SS-4A								-	A-4b (VISUAL)	-
B-037-0-18	202+31,	54'	RT.	41.47205	-81.65975	01.20-01.60	SS-1A	85	56	-	GRAVEL								-	A-1-a (VISUAL)	-
						01.60-02.70	SS-1B	-	-	-	STONE FRAGMENTS								42	A-1-a (VISUAL)	1800
						02.70-04.20	SS-2	38	72	-	0	1	17	76	6	NP	NP	NP	18	A-4b (8)	1000
						04.20-05.70	SS-3	14	61	-	0	0	45	50	5	NP	NP	NP	25	A-4b (4)	-
						05.70-07.20	SS-4	8	72	-	0	0	19	76	5	NP	NP	NP	25	A-4b (8)	-
B-039-0-18	210+95,	41'	RT.	41.4744	-81.66011	01.40-02.00	SS-1A	28	72	-	SAME AS SS-2								11	A-1-b (VISUAL)	130
						02.00-02.90	SS-1B	-	-	-	SAME AS SS-2								-	A-1-b (VISUAL)	-
						02.90-04.40	SS-2	11	67	-	9	65	20	3	3	NP	NP	NP	6	A-1-b (0)	330
						04.40-05.90	SS-3	6	78	-	0	0	66	32	2	NP	NP	NP	21	A-3a (0)	-
						05.90-07.40	SS-4	6	78	-	0	0	89	10	1	NP	NP	NP	26	A-3a (0)	-

Preliminary Plans - For Reference Only

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CUY-77-11.41

GEOTECHNICAL PROFILE - ROADWAY

DESIGN AGENCY TRC

DESIGNER EB

REVIEWER SDM 05/01/26

PROJECT ID 105743

SUBSET 7 | TOTAL 85

SHEET P.1191 | TOTAL P.1269

6350 Presidential Gateway
Columbus, Ohio 43231
Telephone: (614) 823-4949
Fax Number: (614) 823-4990

UNCONFINED COMPRESSION

AASHTO T 208

PROJECT	CUY-77-11.21
JOB No.	N-19-009
BORING	B-025-0-18
STATION / OFFSET	
SAMPLE No. / DEPTH	ST-1 / 31.3' - 31.9'
DATE OF TESTING	05/16/2019
TESTED BY	K. Sarven

Soil Description: Gray SILT, little clay, trace fine sand.
Soil Classification: ODOT A-4b

Physical Characteristics	L.L.	P.L.	P.I.	Gravel%	C. Sand%	F. Sand%	Silt%	Clay%
	NP	NP	NA	0	0	1.0	86.1	12.9

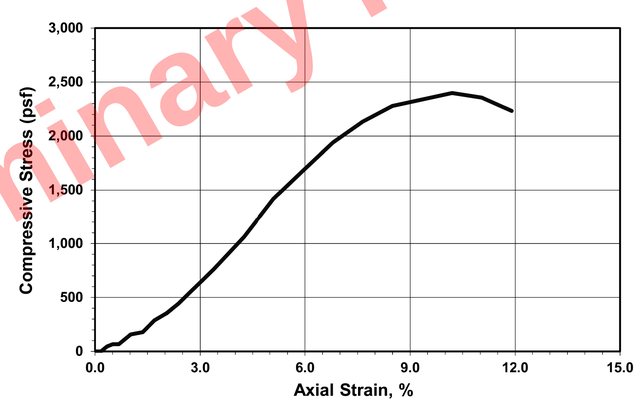
DIAMETER, D_0	2.846 in	72.3 mm	STRAIN RATE	1.00	%/min
AREA, A_0	6.363 in^2	41.1 cm^2	WET SOIL + PAN MASS	1329.4	g
HEIGHT, L_0	5.884 in	149.46 mm	PAN MASS	104.7	g
VOLUME, V_0	37.442 in^3	613.56 cm^3	DRY SOIL + PAN MASS	1065.3	g
MACH. RATE	0.059	in/min	WET DENSITY	124.61	lb/ft^3
WATER CONT.	27.49	%	DRY DENSITY	97.74	lb/ft^3

UNCONFINED COMPRESSION STRESS, q_u	**2,398** **psf**	1.20	tsf
AXIAL STRAIN @ FAILURE		10.20	%
HAND PENETROMETER		1.00	tsf

Failure Sketch



Unconfined Compression Test



Preliminary Plans - For Reference Only

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CUY-77-11.41

GEOTECHNICAL PROFILE - ROADWAY

DESIGN AGENCY TRC

DESIGNER EB

REVIEWER SDM 05/01/26

PROJECT ID 105743

SUBSET 8 | TOTAL 85

SHEET P.1192 | TOTAL P.1269

CUY-77-11.41

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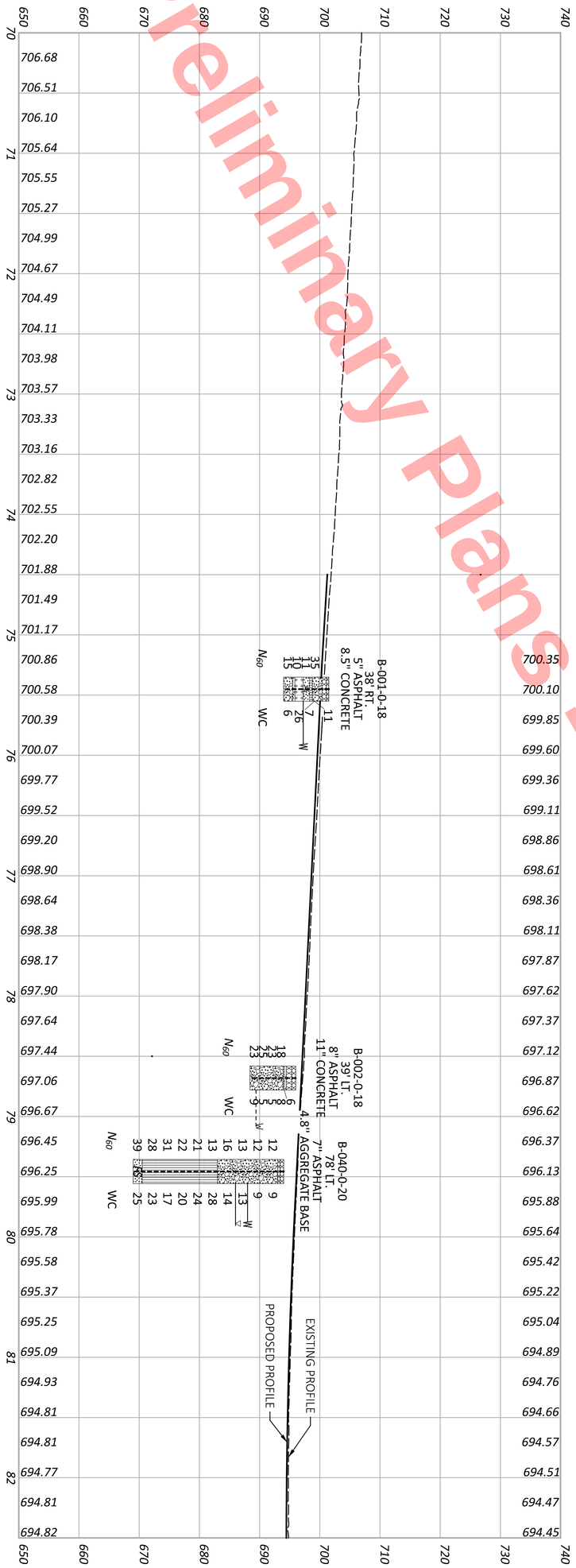
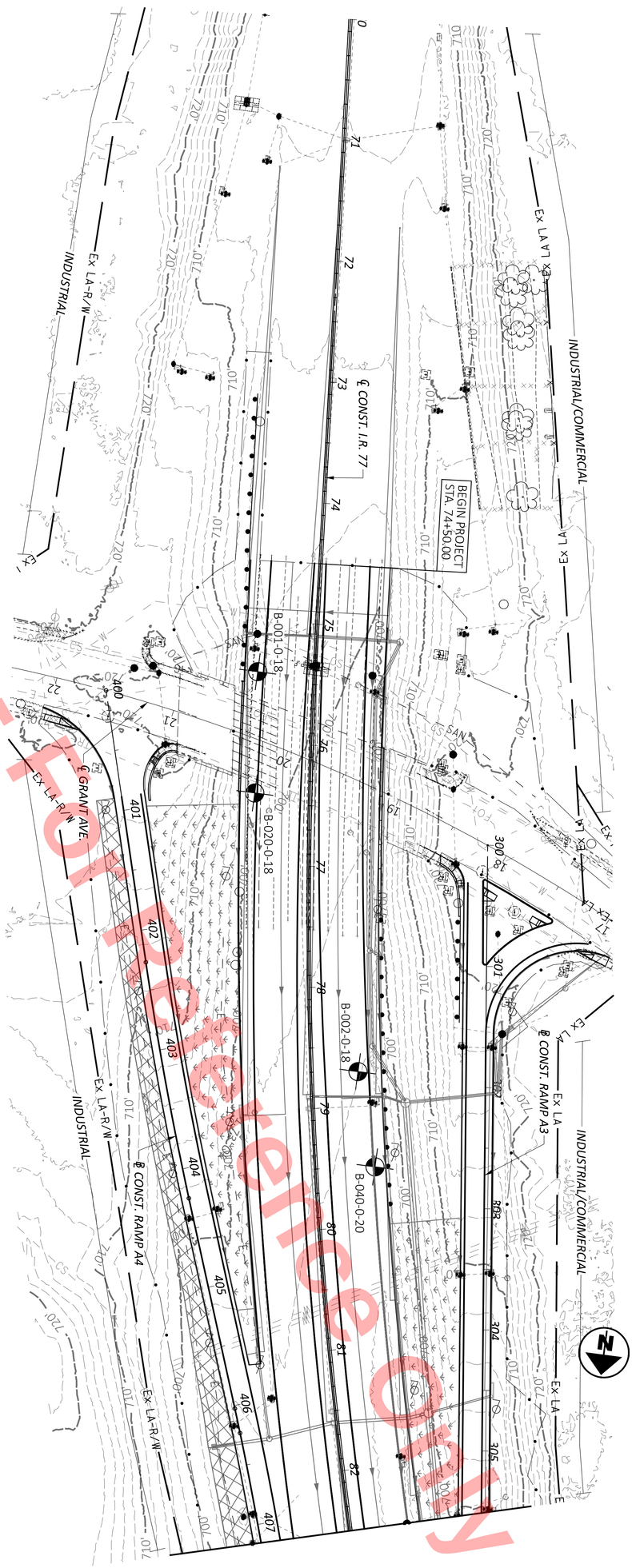
Preliminary Plans - For Reference Only





GEOTECHNICAL PROFILE - ROADWAY
CUY-77 - STA. 70+00 TO STA. 82+50

HORIZONTAL SCALE IN FEET
0 50
25 100

SHEET	TOTAL
P.1193	P.1269

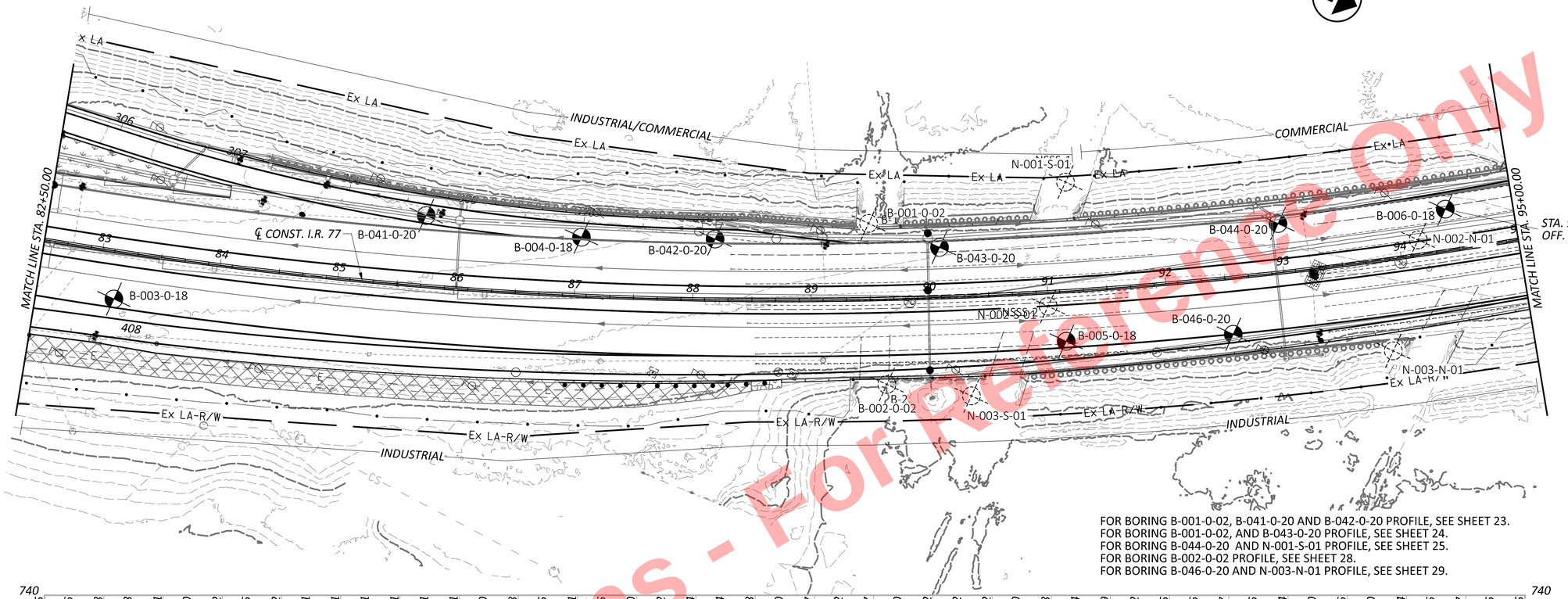
SUBSET	TOTAL
9	85

PROJECT ID: 105743

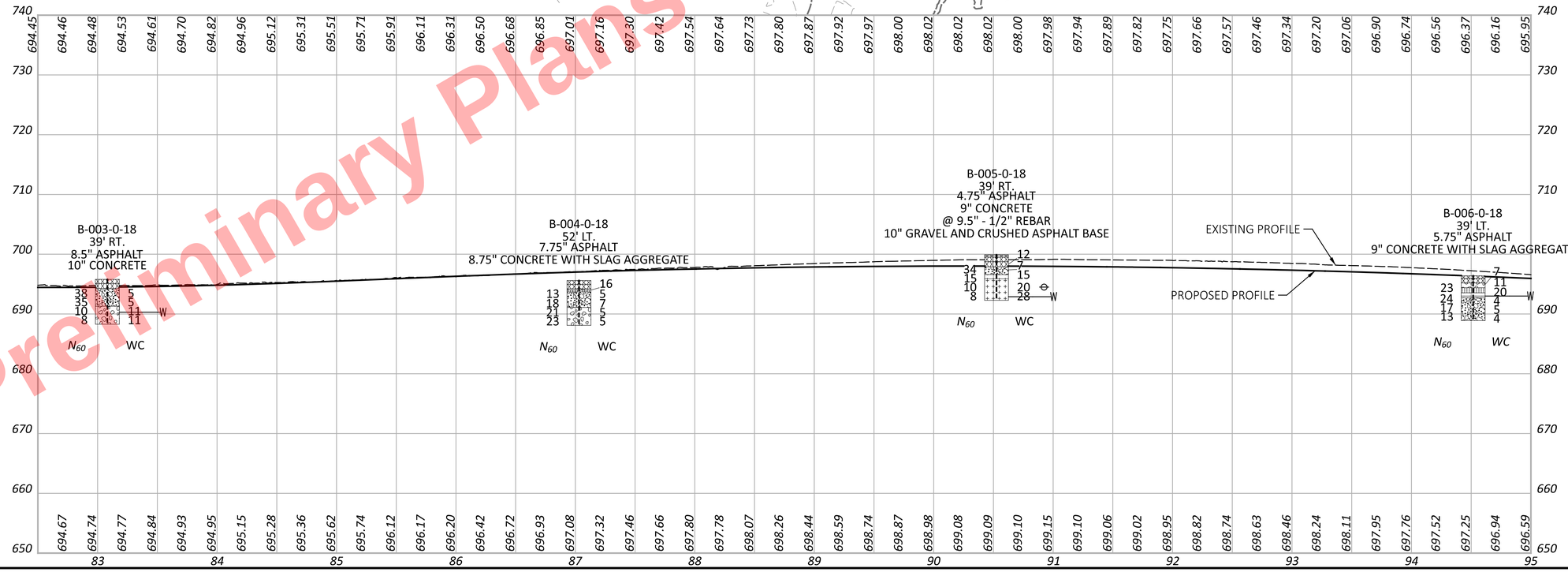
REVIEWER: SDM 05/01/26

DESIGNER: EB

DESIGN AGENCY: TRC



FOR BORING B-001-0-02, B-041-0-20 AND B-042-0-20 PROFILE, SEE SHEET 23.
FOR BORING B-001-0-02, AND B-043-0-20 PROFILE, SEE SHEET 24.
FOR BORING B-044-0-20 AND N-001-S-01 PROFILE, SEE SHEET 25.
FOR BORING B-002-0-02 PROFILE, SEE SHEET 28.
FOR BORING B-046-0-20 AND N-003-N-01 PROFILE, SEE SHEET 29.



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
CUY-77 - STA. 82+50 TO STA. 95+00

DESIGN AGENCY
TRC

DESIGNER	EB
REVIEWER	SDM 05/01/26
PROJECT ID	105743
SUBSET	10
TOTAL	85
SHEET	P.1194
TOTAL	P.1269

CUY-77-11.41

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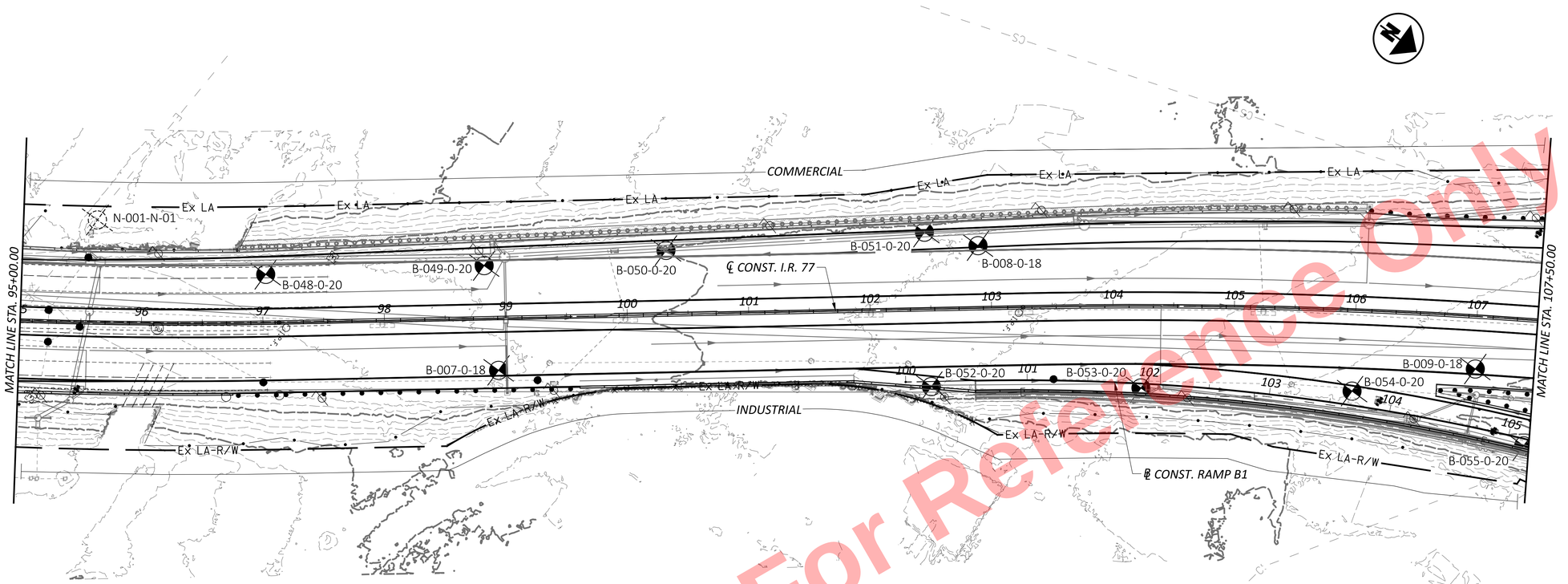
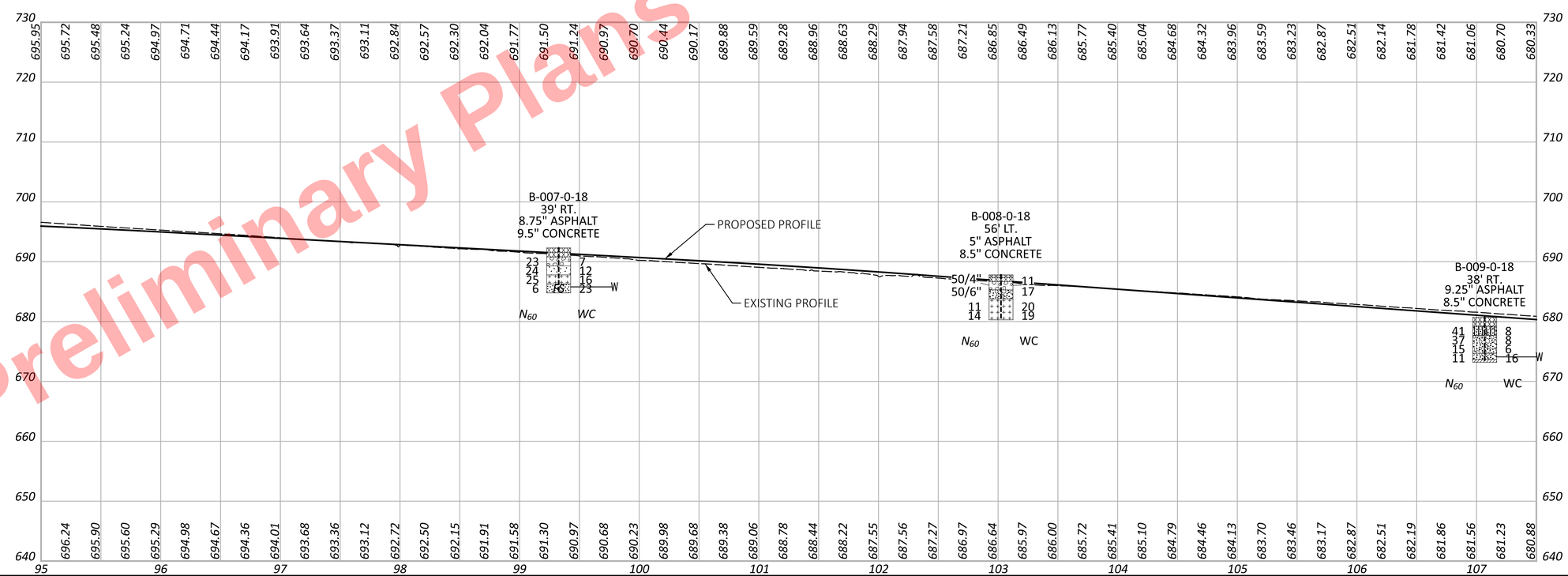


FOR BORING N-001-N-01, B-048-0-20 B-049-0-20, B-050-0-20, B-051-0-20, B-052-0-20 PROFILE, SEE SHEETS 26 AND 27.
FOR BORING B-053-0-20, B-054-0-20, B-055-0-20 PROFILE, SEE SHEETS 30 AND 31.



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
CUY-77 - STA. 95+00 TO STA. 107+50

DESIGN AGENCY
TRC

DESIGNER	EB
REVIEWER	SDM 05/01/26
PROJECT ID	105743
SUBSET	11
TOTAL	85
SHEET	P.1195
TOTAL	P.1269

CUY-77-11.41

MODEL: CLR_I077 - Plan 3 PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 10:59:53 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCtx02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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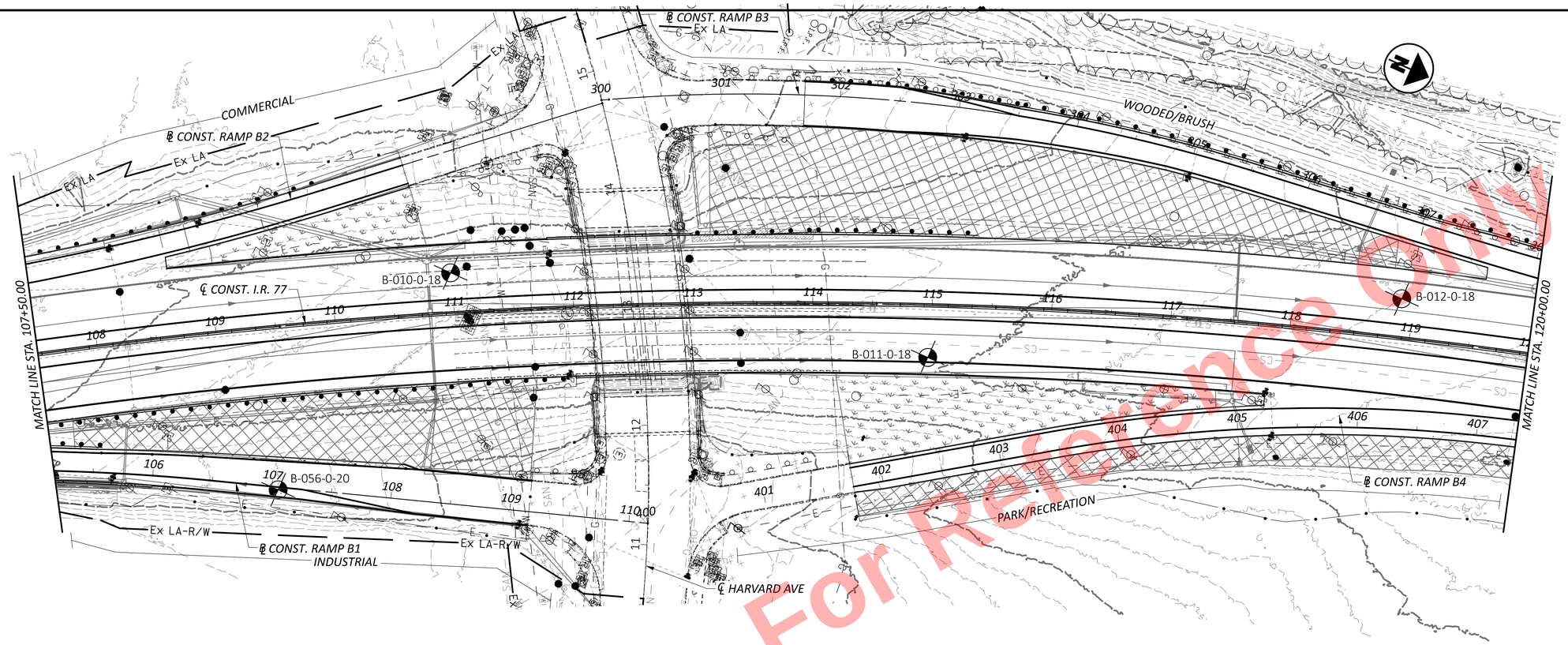
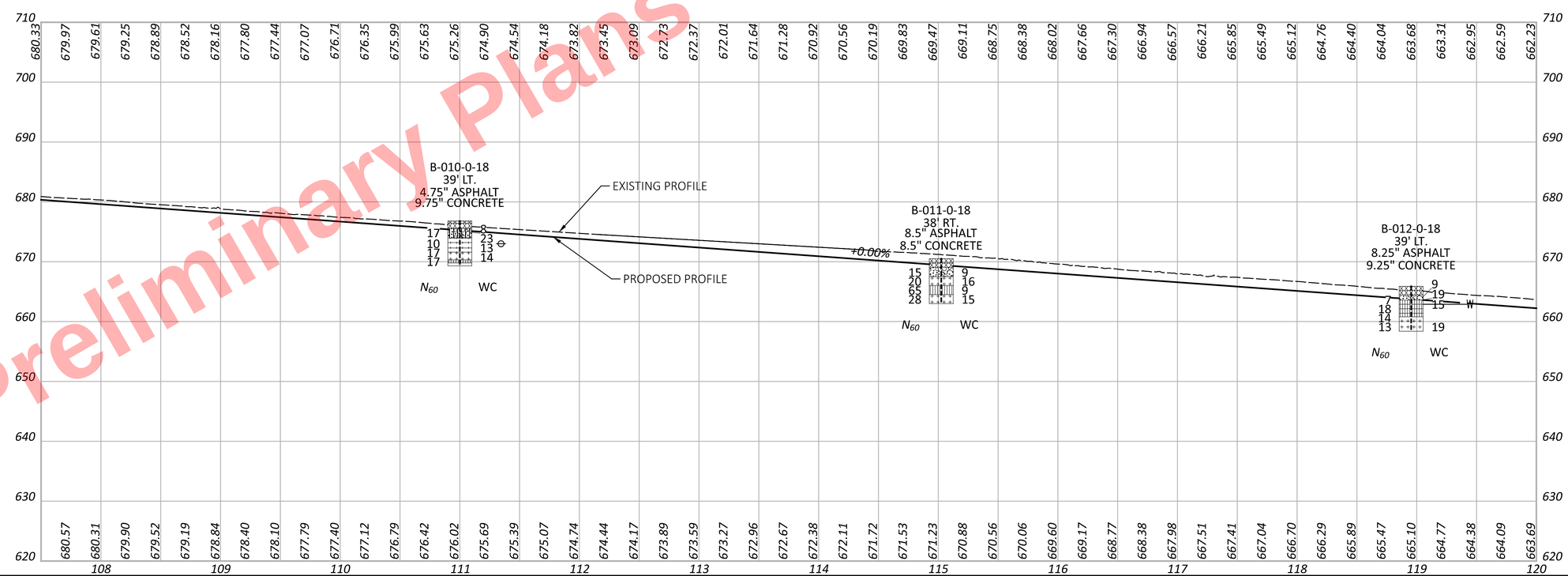


FOR BORING B-056-0-20 PROFILE, SEE SHEET 31.



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
CUY-77 - STA. 107+50 TO STA. 120+00

DESIGN AGENCY
TRC

DESIGNER EB
REVIEWER SDM 05/01/26
PROJECT ID 105743
SUBSET 12 | TOTAL 85
SHEET P.1196 | TOTAL P.1269

CUY-77-11.41

MODEL: CLP_I077 - Plan 4 PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:00:18 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCtx02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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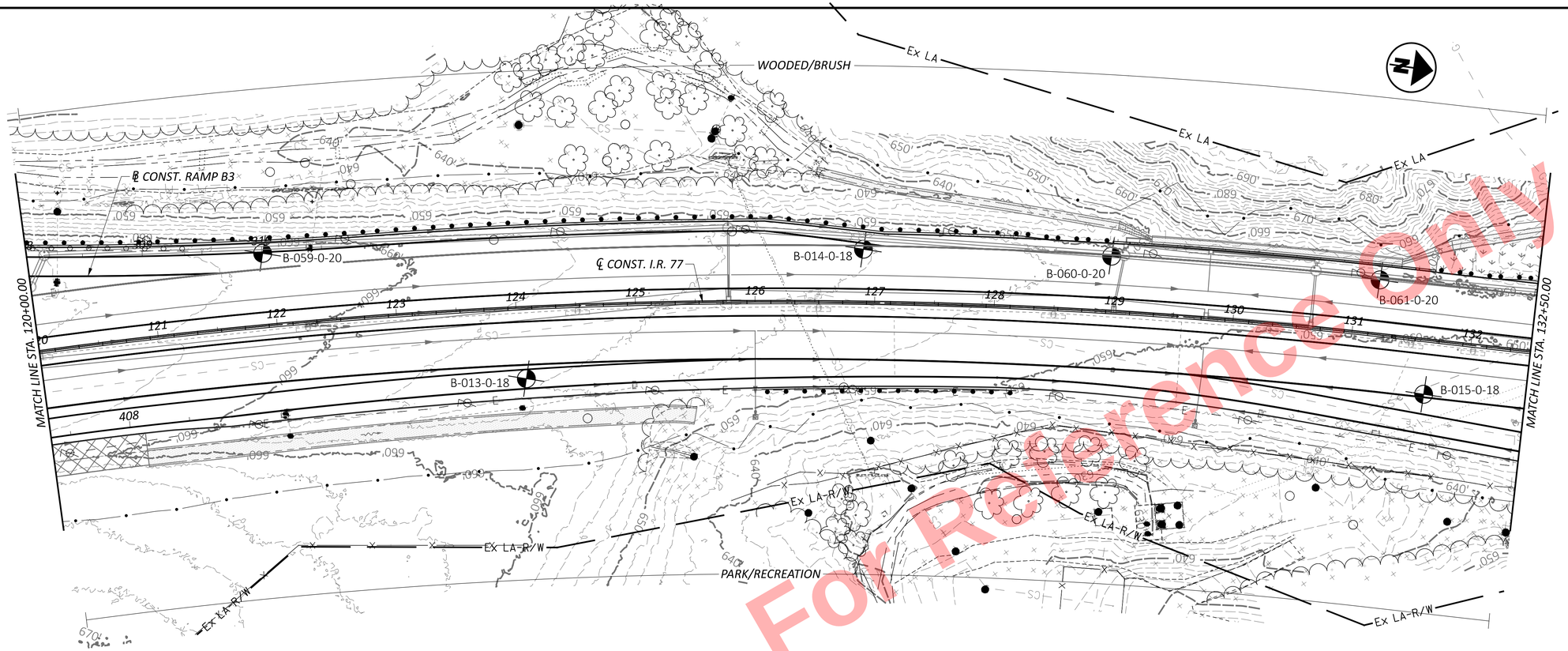
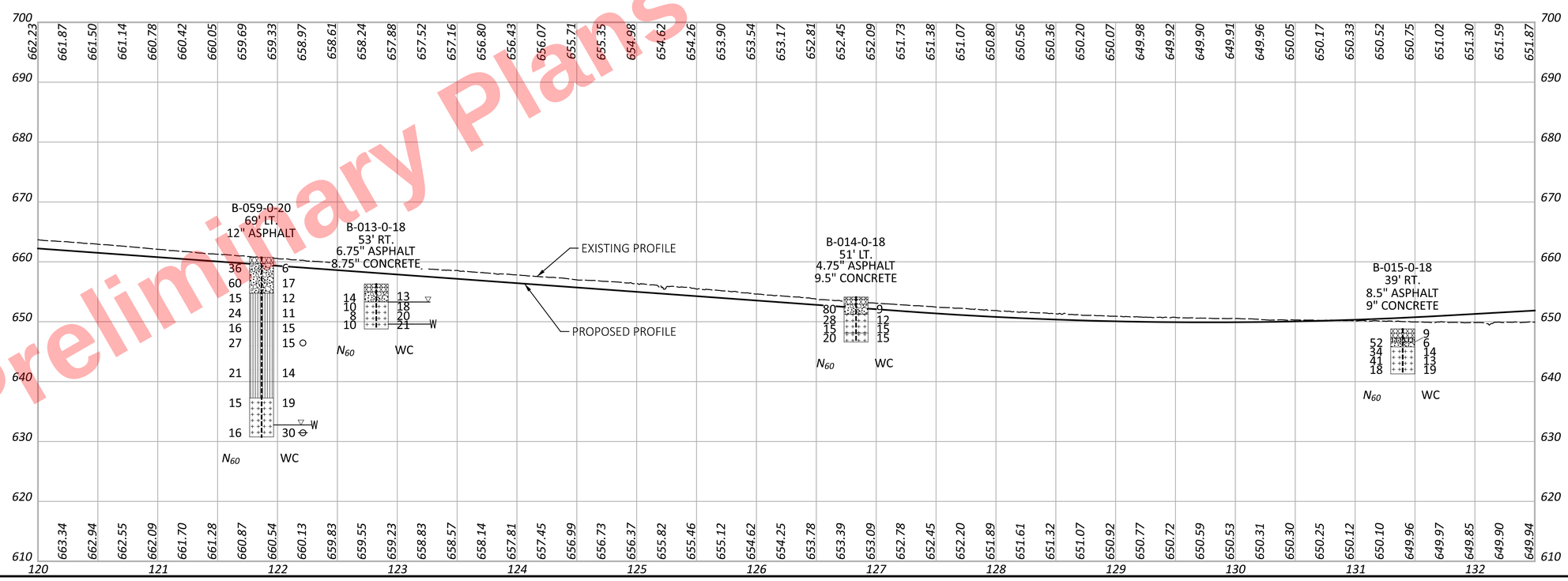


FOR BORING B-060-0-20 AND B-061-0-20 PROFILE, SEE SHEET 32.



Preliminary Plans - For Reference only

HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
CUY-77 - STA. 120+00 TO STA. 132+50

DESIGN AGENCY
TRC

DESIGNER EB
REVIEWER SDM 05/01/26
PROJECT ID 105743
SUBSET 13 TOTAL 85
SHEET P.1197 TOTAL P.1269

CUY-77-11.41

MODEL: CLP_I077 - Plan 5 PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:00:33 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCtv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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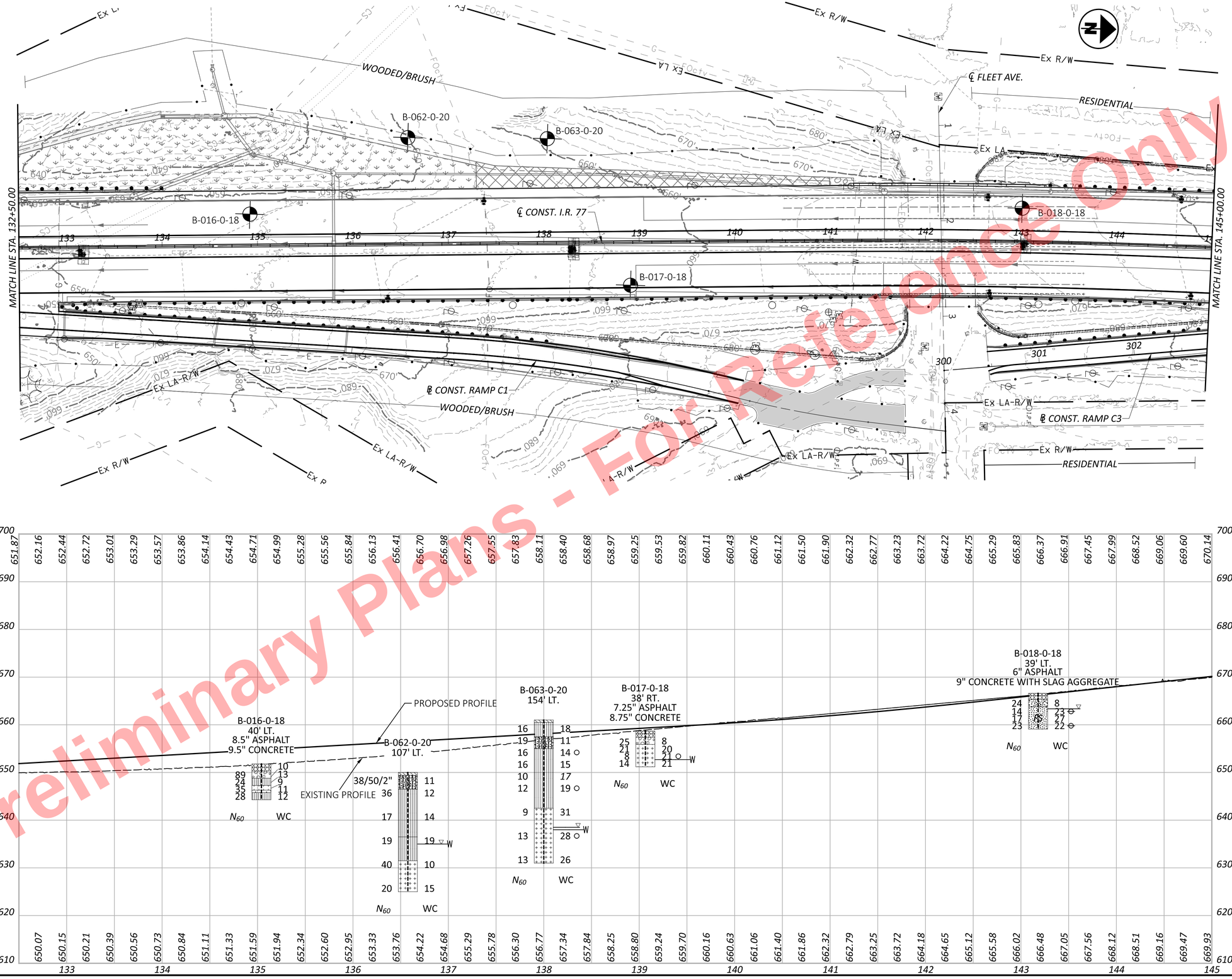
Preliminary Plans - For Reference Only



HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
CUY-77 - STA. 132+50 TO STA. 145+00

DESIGN AGENCY
TRC

DESIGNER	EB
REVIEWER	SDM 05/01/26
PROJECT ID	105743
SUBSET	14
TOTAL	85
SHEET	P.1198
TOTAL	P.1269

CUY-77-11.41

MODEL: CLP_I077 - Plan 6 PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:00:51 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCtx02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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MODEL: CLP_I077 - Plan 7 PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:01:09 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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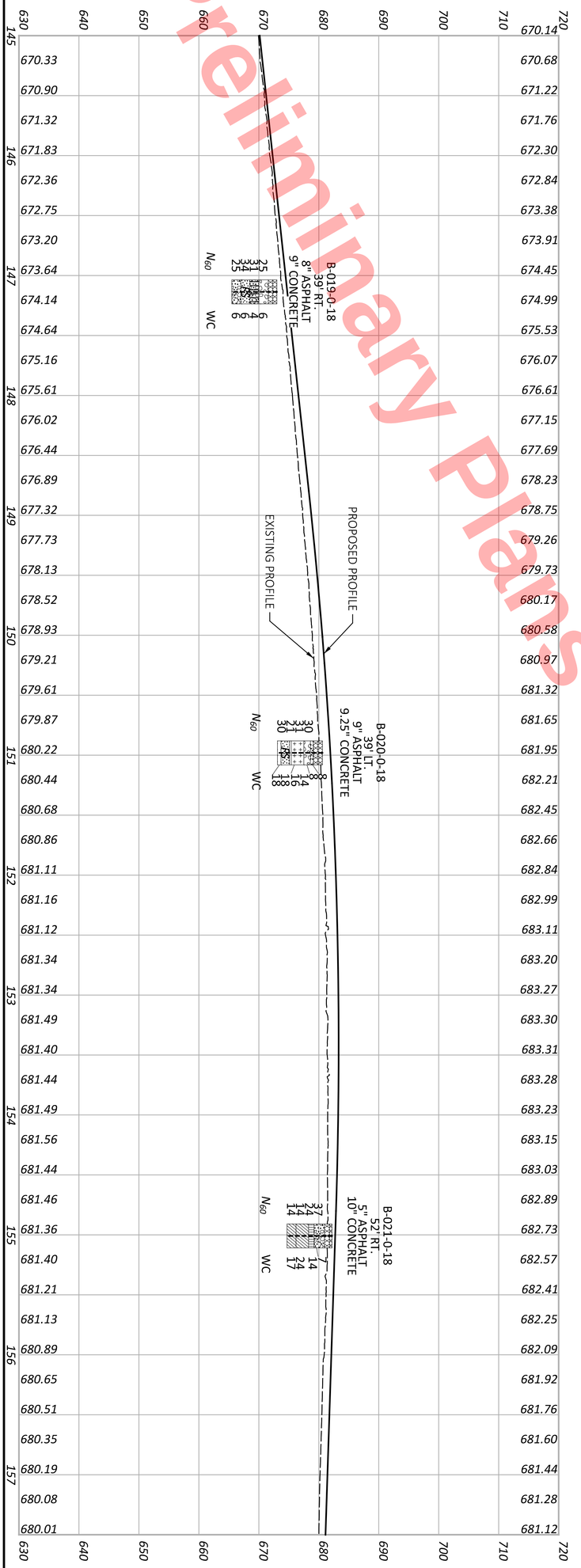
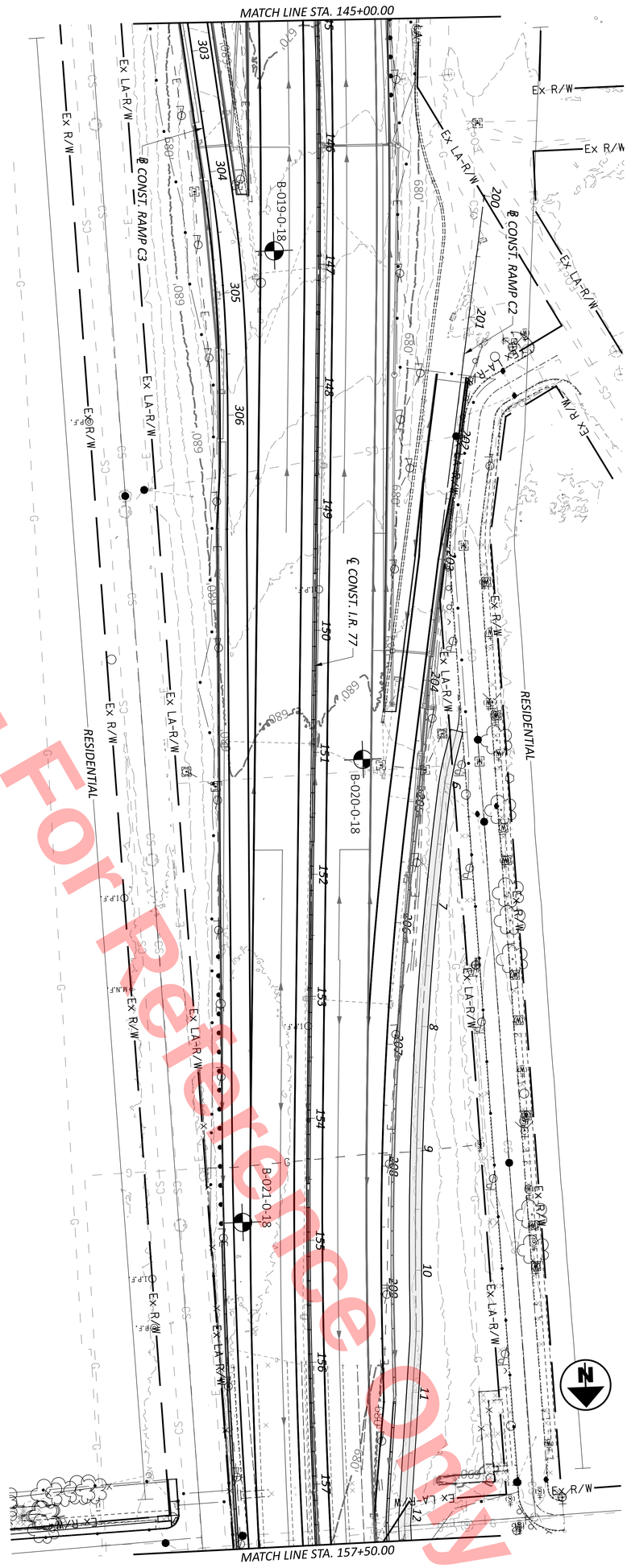
Preliminary Plans - For Reference Only

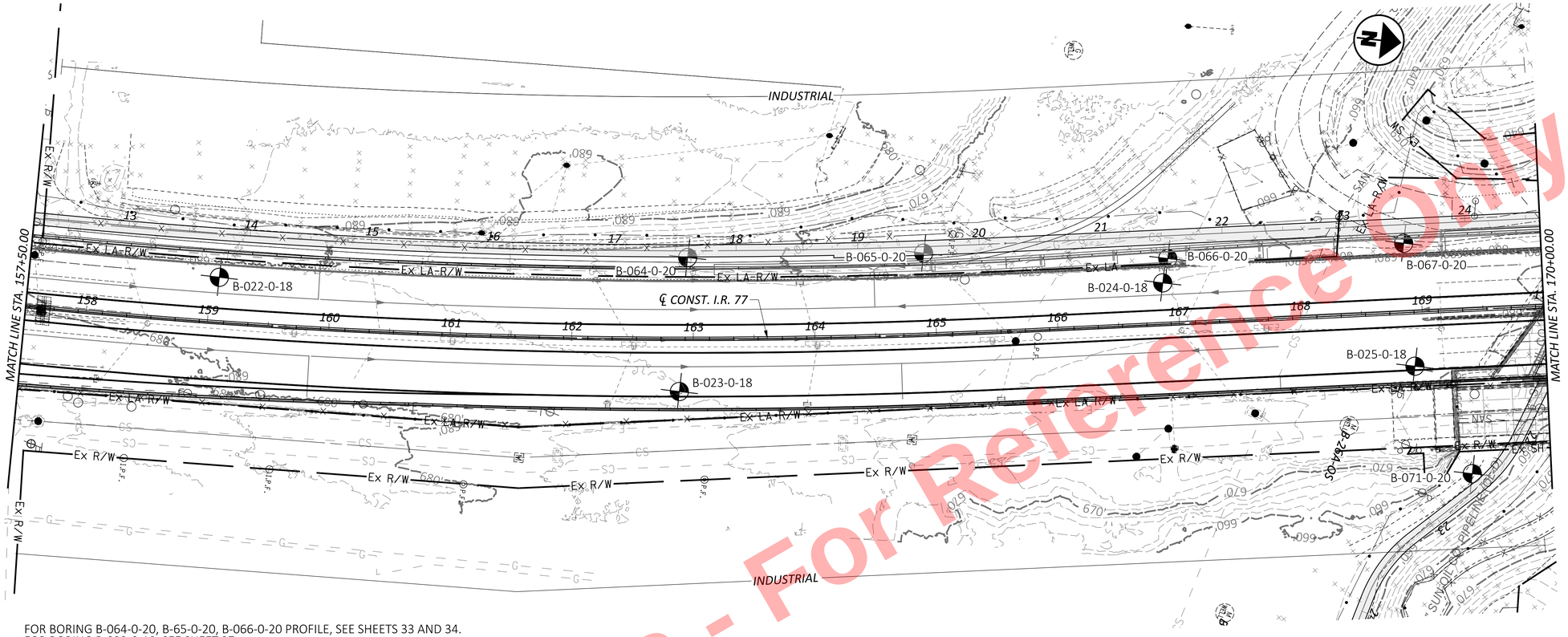




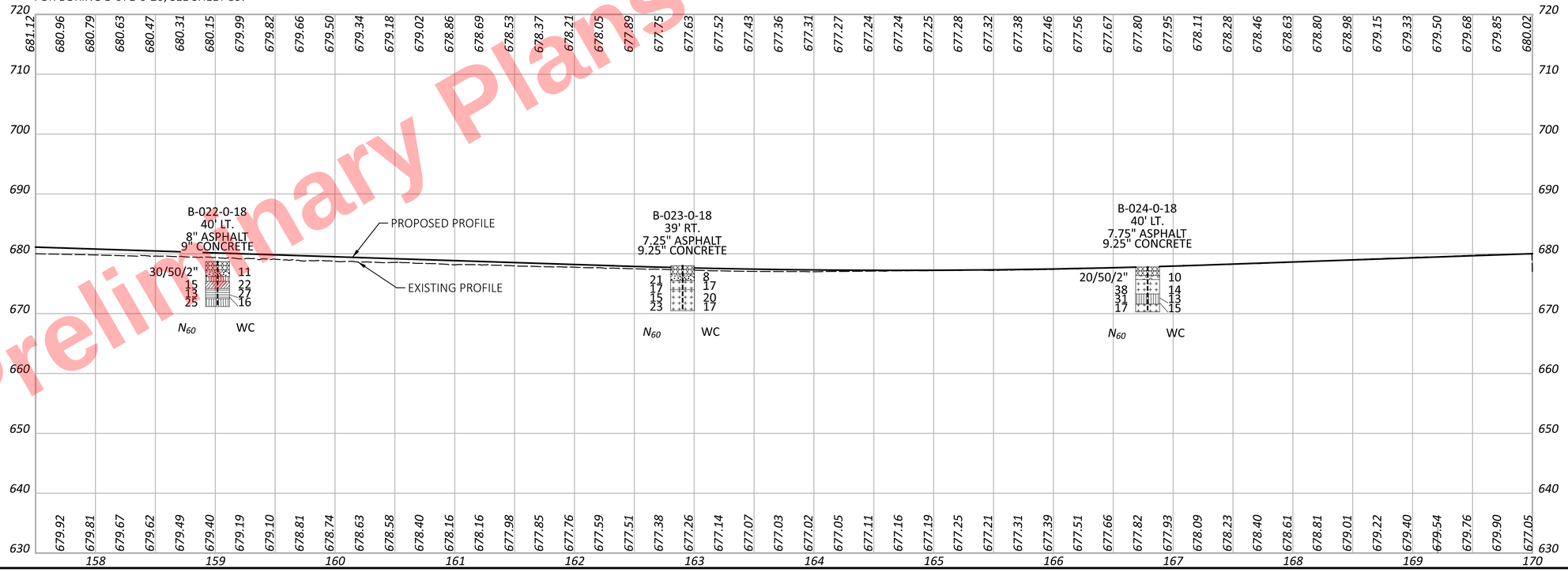
GEOTECHNICAL PROFILE - ROADWAY
CUY-77 - STA. 145+00 TO STA. 157+50

HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGN AGENCY	DESIGNER	REVIEWER	PROJECT ID	SUBSET	SHEET
TRC	EB	SDM 05/01/26	105743	15 TOTAL 85	P.1199 TOTAL P.1269



FOR BORING B-064-0-20, B-65-0-20, B-066-0-20 PROFILE, SEE SHEETS 33 AND 34.
FOR BORING B-022-0-18, SEE SHEET 37.
FOR BORING B-071-0-20, SEE SHEET 39.



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
CUY-77 - STA. 157+50 TO STA. 170+00

DESIGN AGENCY
TRC

DESIGNER	EB
REVIEWER	SDM 05/01/26
PROJECT ID	105743
SUBSET	16
TOTAL	85
SHEET	P.1200
TOTAL	P.1269

CUY-77-11.41

MODEL: CLP_I077 - Plan 8 PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:01:32 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCtx02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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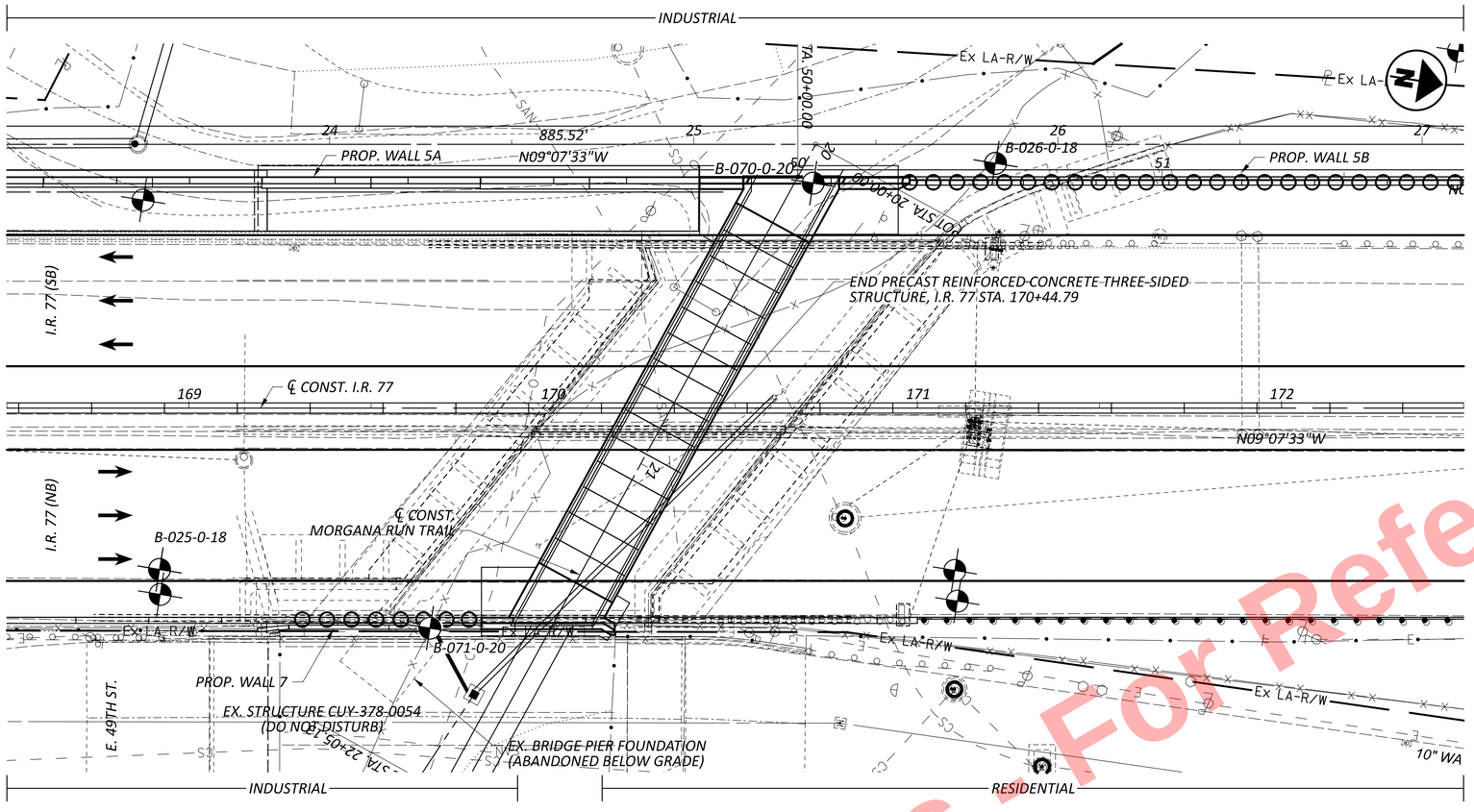

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - STRUCTURES
BRIDGE NO. CUY-77-1322 OVER ABAND. W&LE RR (FUTURE MORGANA TRAIL)

DESIGN AGENCY
TRC

DESIGNER	NMC
REVIEWER	SDM 05/01/26
PROJECT ID	105743
SUBSET	17
TOTAL	85
SHEET	P.1201
TOTAL	P.1269

CUY-77-11.41

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:02:00 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCExt02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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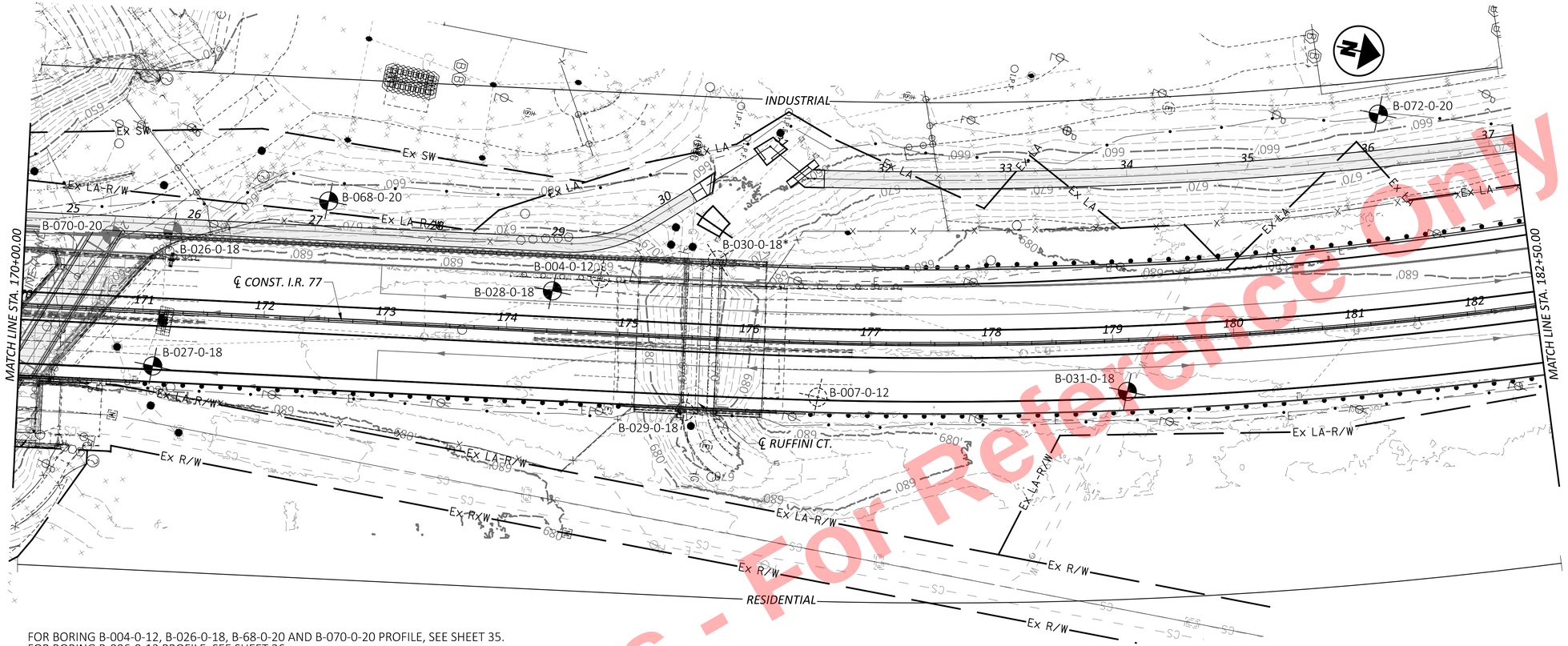

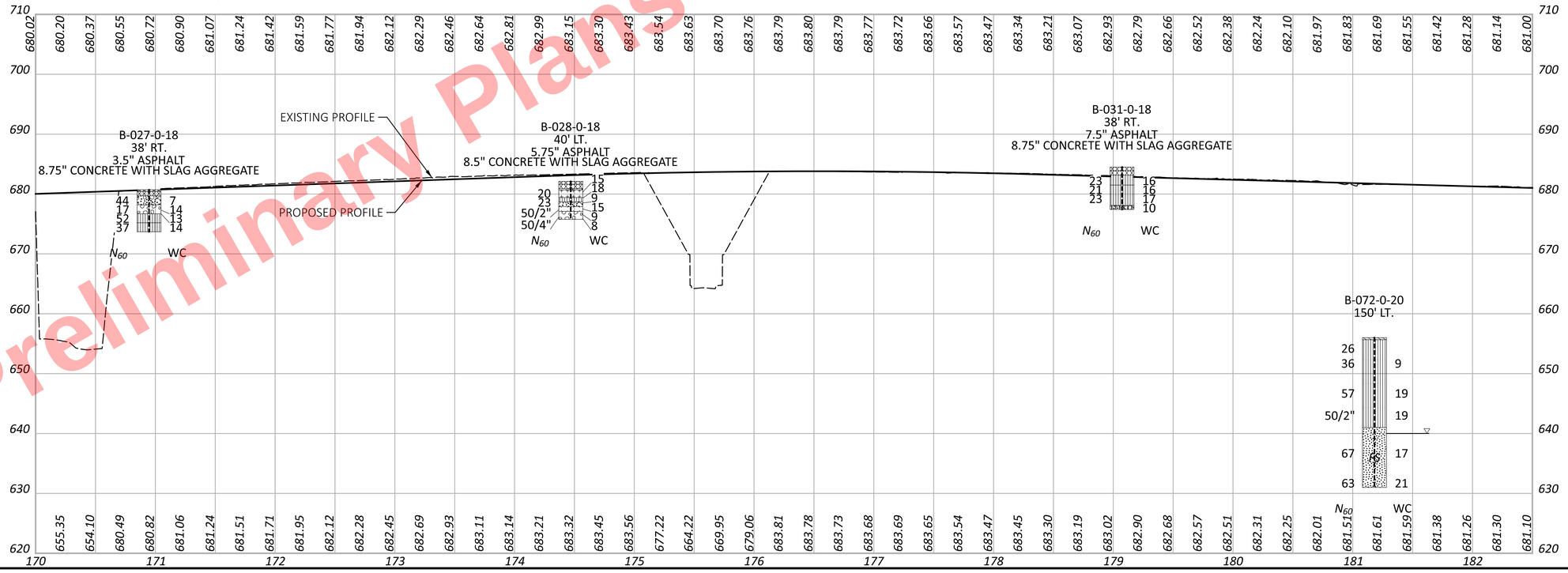

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
CUY-77 - STA. 170+00 TO STA. 182+50

DESIGN AGENCY
TRC

DESIGNER EB
REVIEWER SDM 05/01/26
PROJECT ID 105743
SUBSET 18 | TOTAL 85
SHEET P.1202 | TOTAL P.1269

CUY-77-11.41

MODEL: CLP_I077 - Plan 9 PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:02:27 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCtx02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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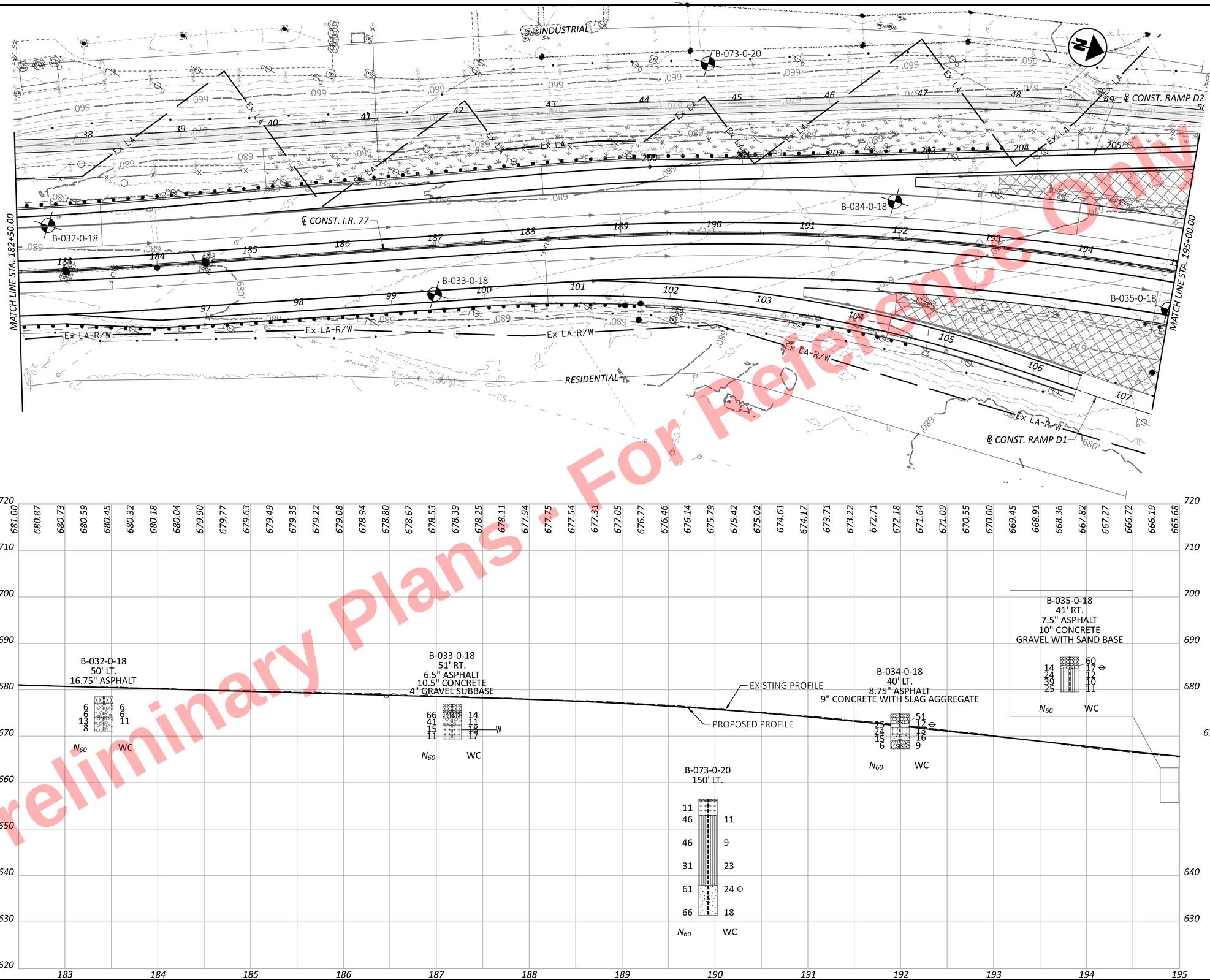

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0

GEOTECHNICAL PROFILE - ROADWAY
CUY-77 - STA. 182+50 TO STA. 195+00

CUY-77-11.41

DESIGN AGENCY
TRC

DESIGNER	EB
REVIEWER	SDM 05/01/26
PROJECT ID	105743
SUBSET	19
TOTAL	85
SHEET	P.1203
TOTAL	P.1269

MODEL: CLP_I077 - Plan 10 PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:03:10 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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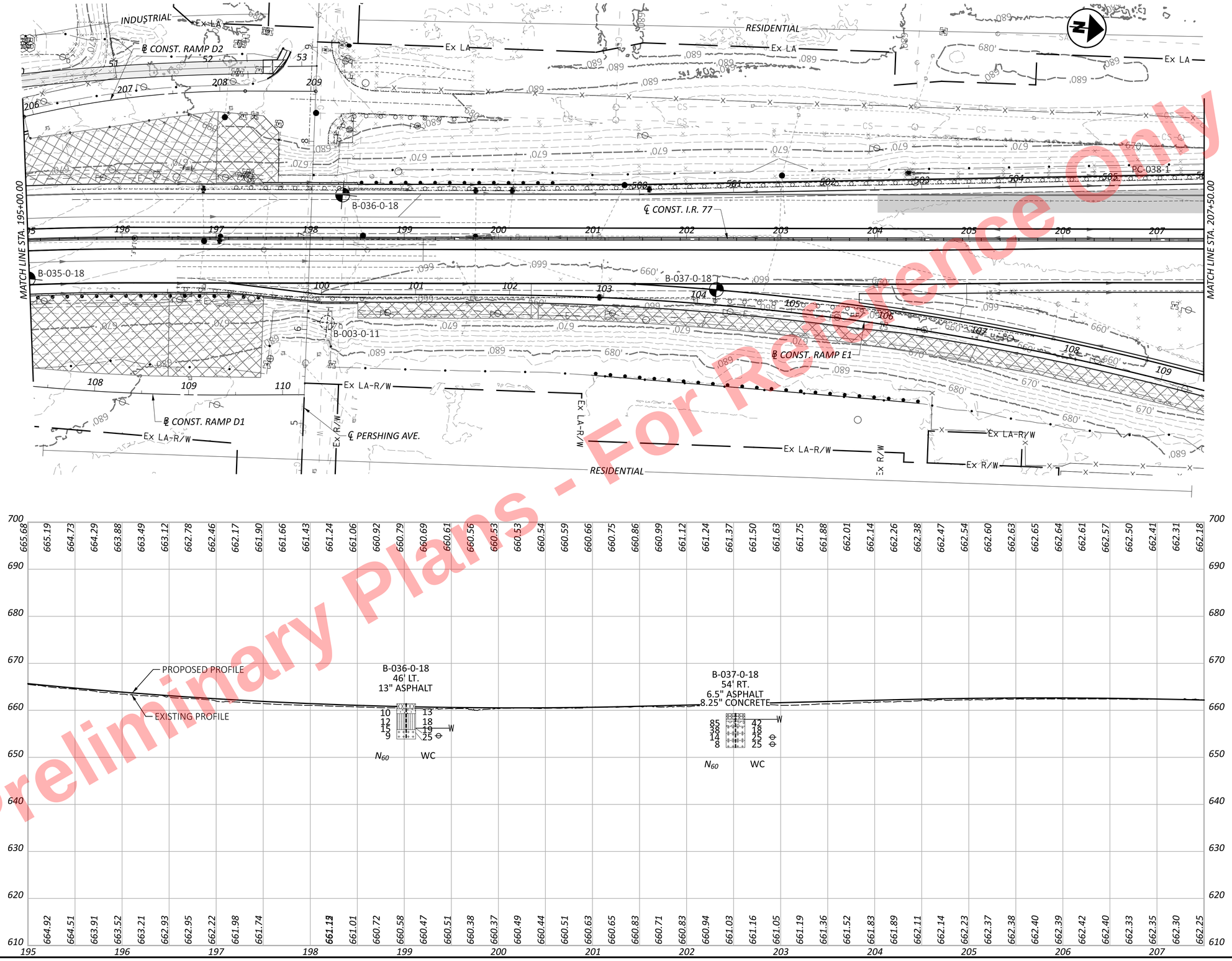

Preliminary Plans - For Reference Only

CUY-77-11.41

MODEL: CLP_I077 - Plan 11 PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:03:32 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCalazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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HORIZONTAL SCALE IN FEET
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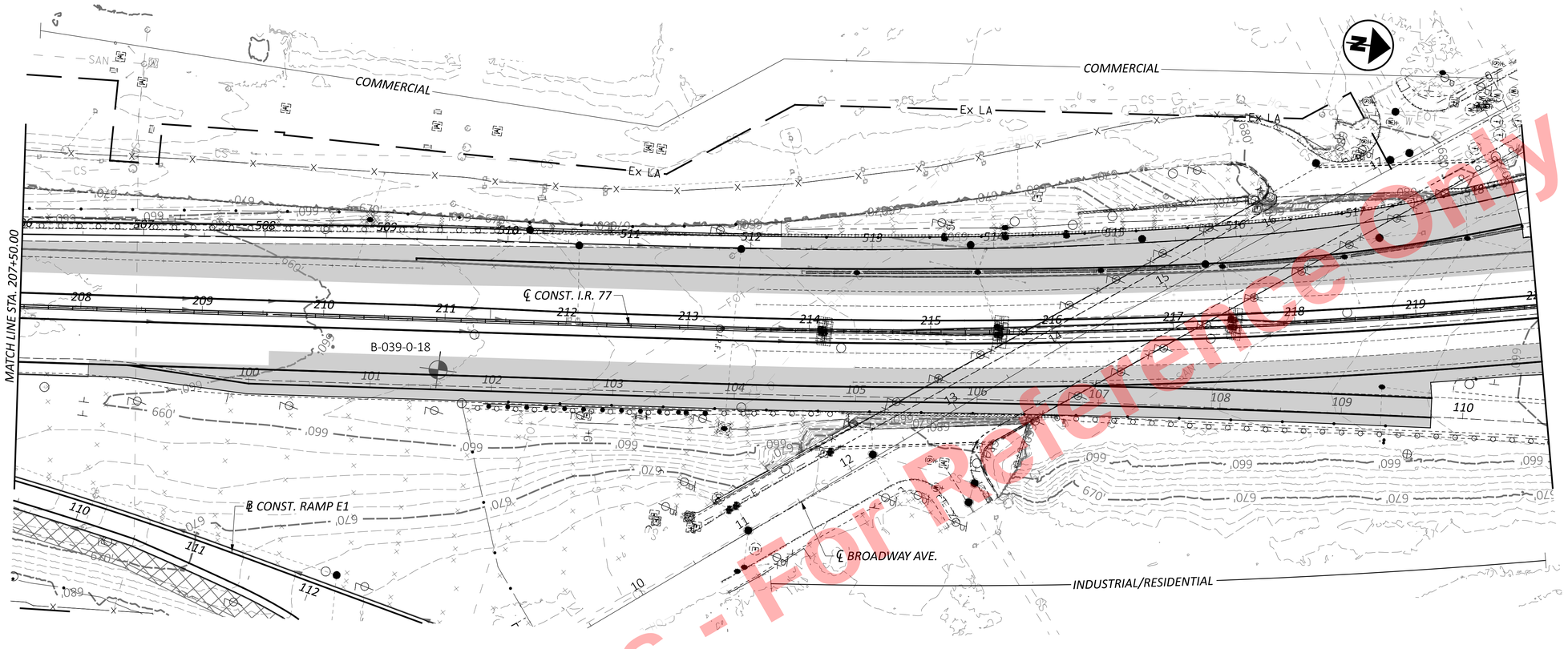
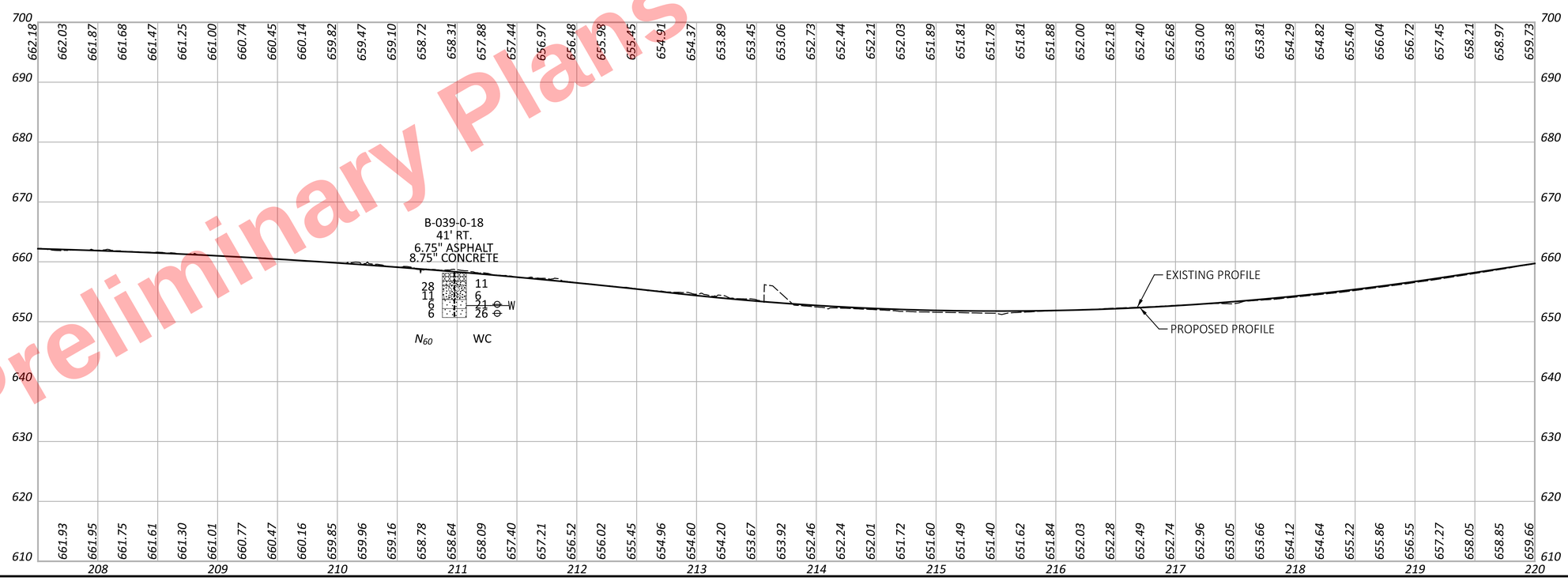
GEOTECHNICAL PROFILE - ROADWAY
CUY-77 - STA. 195+50 TO STA. 207+50

DESIGN AGENCY
TRC

DESIGNER	EB
REVIEWER	SDM 05/01/26
PROJECT ID	105743
SUBSET	20
TOTAL	85
SHEET	P.1204
TOTAL	P.1269

Preliminary Plans - For Reference Only





HORIZONTAL SCALE IN FEET
0 10 20 40

GEOTECHNICAL PROFILE - ROADWAY
CUY-77 - STA. 207+50 TO STA. 220+00

CUY-77-11.41

MODEL: CLP_I077 - Plan 12 PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:03:50 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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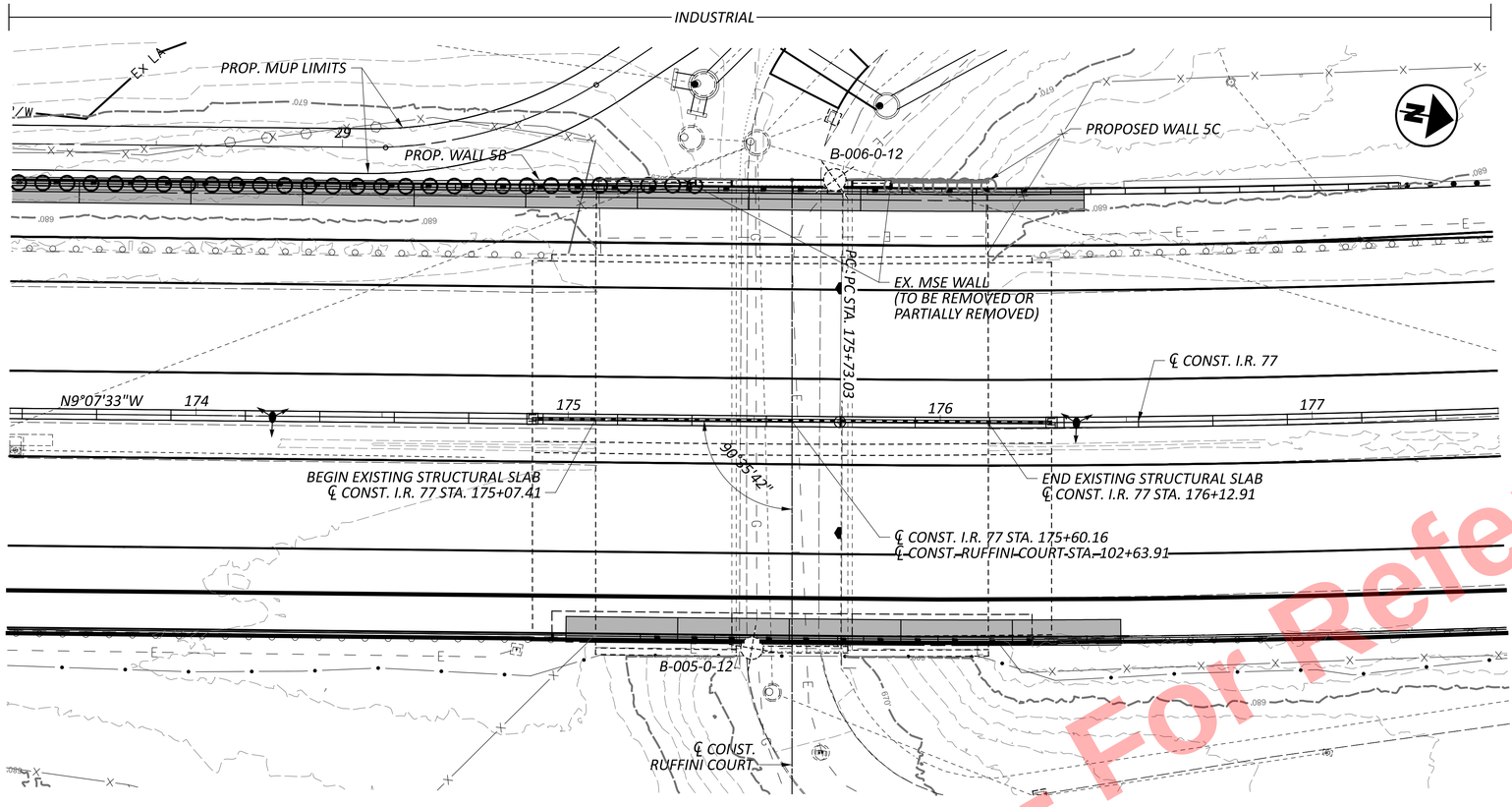
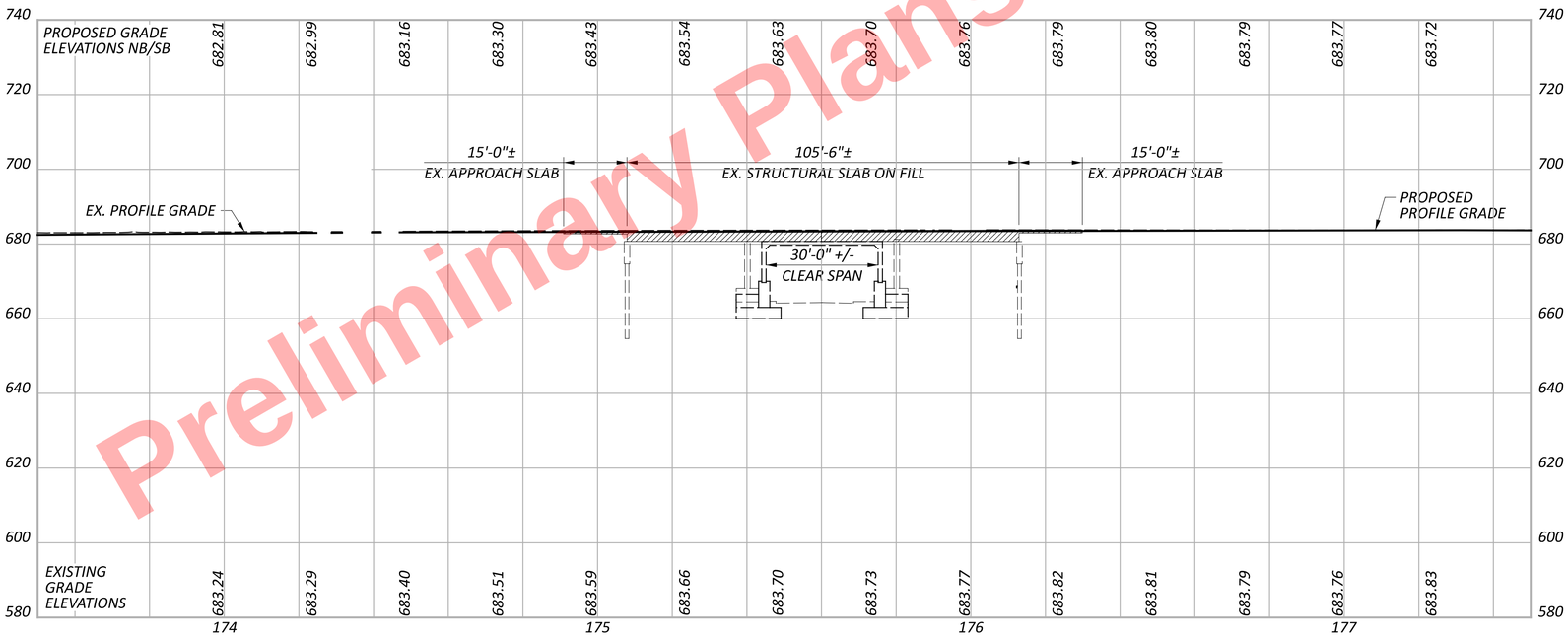
DESIGN AGENCY
TRC

DESIGNER	EB
REVIEWER	SDM 05/01/26
PROJECT ID	105743
SUBSET	21
TOTAL	85
SHEET	P.1205
TOTAL	P.1269





Preliminary Plans - For Reference Only

HORIZONTAL
SCALE IN FEET
0 10 20 40

GEOTECHNICAL PROFILE - ROADWAY
BRIDGE NO. CUY-77-1331 OVER RUFFINI COURT

DESIGN AGENCY
TRC

DESIGNER	NMC
REVIEWER	SDM 05/01/26
PROJECT ID	105743
SUBSET	22
TOTAL	85
SHEET	P.1206
TOTAL	P.1269

CUY-77-11.41

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:04:20 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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INDUSTRIAL/COMMERCIAL

Ex Ex LA R/W
Ex LA
CONST. LIMITS
POC STA. 0+00.00
BEGIN WALL 1A
℄ CONST. I.R. 77 STA. 84+30.13, 92.77' LT
℄ WALL 1A STA. 0+24.75
℄ WALL 1A
PROP. GRADING LIMITS
POT WALL 1A STA. 4+24.75
℄ CONST. I.R. 77 STA. 88+37.31, 69.30' LT
Ex LA R/W
END WALL 1A
℄ CONST. I.R. 77 STA. 89+38.73, 61.33' LT
℄ WALL 1A STA. 5+24.75
POT STA. 5+24.91
B-001-0-02
℄ CONST. RAMP A3 AND E/P
N20°18'09"W
B-041-0-20
B-042-0-20
EX. ABUTMENT OF BRIDGE CUY-77-1169 (TO REMAIN)
℄ CONST. I.R. 77
307
308
309
310
311
85
86
87
88
89

HORIZONTAL SCALE IN FEET
0 10 20 40

PROPOSED PAVEMENT ELEVATIONS AT TOE OF BARRIER
692.24 692.28 692.41 692.59 692.90 693.20 693.48 693.76 694.02 694.27 694.49 694.70 694.87 695.03 695.16 695.28 695.37 695.54 695.70 695.84 695.98

WALL 1A = 500.00' SOLDIER PILE RETAINING WALL
MEASURED ALONG FRONT FACE

BEGIN WALL 1A
℄ CONST. I.R. 77 STA. 84+30.13, 92.77' LT
℄ WALL 1A STA. 0+24.75
TOP OF WALL EL. 695.74

PROPOSED GRADE EL. 693.74

PROPOSED GRADE AT BACK OF WALL
PROPOSED GRADE AT TOE OF BARRIER
EXISTING GROUND AT BACK OF WALL
TOP OF WALL
WALL 1A STA. 4+24.75
TOP OF WALL EL. 711.05
PROPOSED GRADE EL. 710.05
PROPOSED GRADE EL. 714.20

END WALL 1A
℄ CONST. I.R. 77 STA. 89+38.73, 61.33' LT
℄ WALL 1A STA. 5+24.75
TOP OF WALL EL. 715.20

B-041-0-20
67' LT.
7" ASPHALT
4.8" AGGREGATE BASE

B-042-0-20
63' LT.
9" ASPHALT

B-001-0-02
64' LT.

N_{60} WC

BOTTOM OF WALL 1A EL. 690.69
BOTTOM OF WALL 1A EL. 691.01
BOTTOM OF WALL 1A EL. 691.37
BOTTOM OF WALL 1A EL. 692.40
BOTTOM OF WALL 1A EL. 692.69
BOTTOM OF WALL 1A EL. 692.96
BOTTOM OF WALL 1A EL. 693.20
BOTTOM OF WALL 1A EL. 693.57
BOTTOM OF WALL 1A EL. 694.10
BOTTOM OF WALL 1A EL. 694.28

EX. 12" STORM DRAIN TO REMAIN
INVERT EL. 692.4 +/-

EXISTING ABUTMENT BOTTOM OF FOOTING EL. 689.4 +/-

EXISTING GROUND ELEVATIONS AT BACK OF WALL
694.55 694.45 694.43 694.46 694.89 695.66 696.44 696.74 696.63 697.28 697.42 697.51 698.13 699.35 700.70 702.19 703.26 702.97 703.60 703.30

780 760 740 720 700 680 660 640 620 600

0 1 2 3 4 5

Preliminary Plans - For Reference Only

GEOTECHNICAL PROFILE - RETAINING WALL
RETAINING WALL 1A

DESIGN AGENCY
TRC

DESIGNER NMC
REVIEWER SDM 05/01/26
PROJECT ID 105743
SUBSET 23 | TOTAL 85
SHEET P.1207 | TOTAL P.1269

CUY-77-11.41

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:04:51 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCalazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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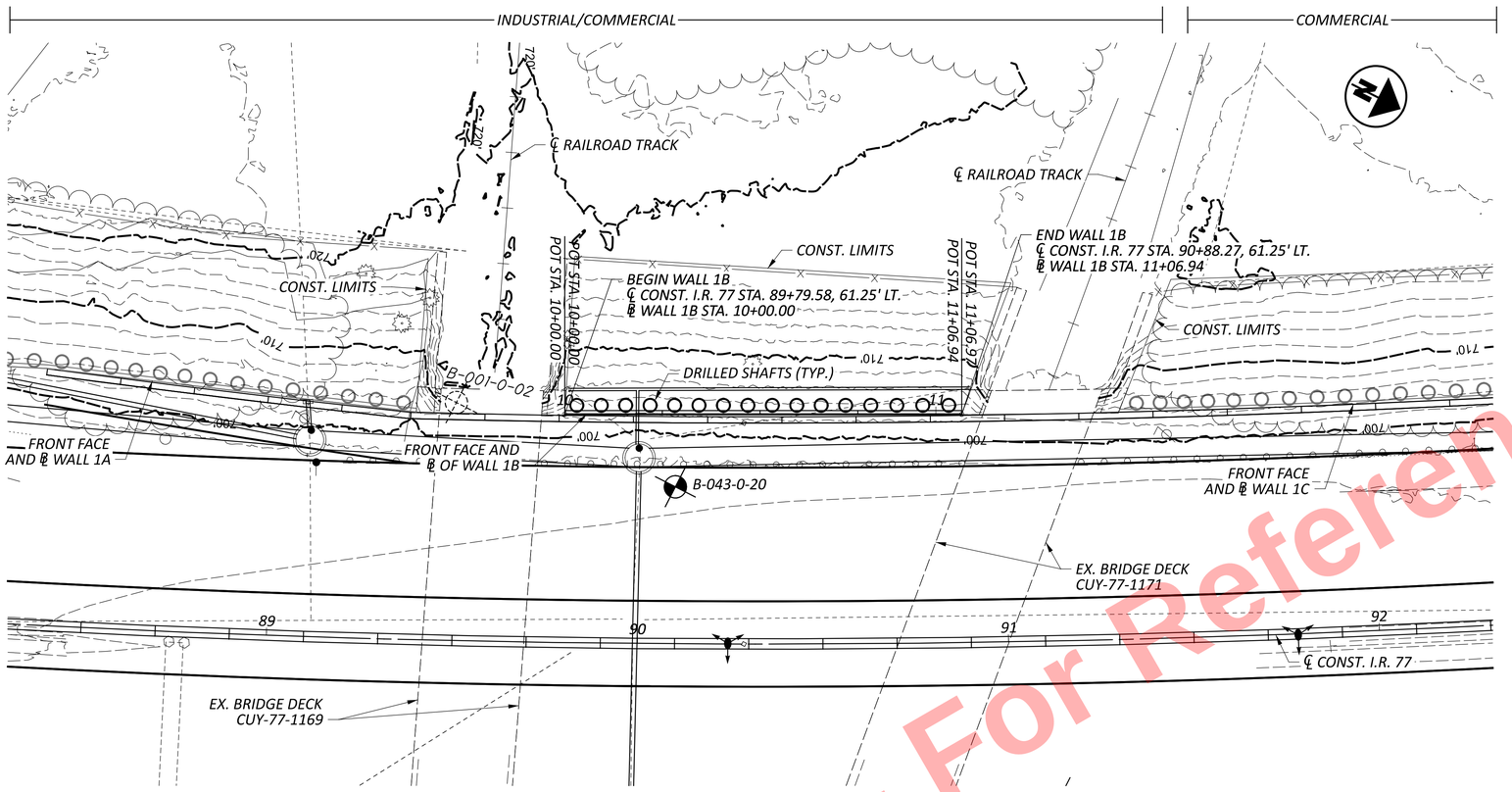
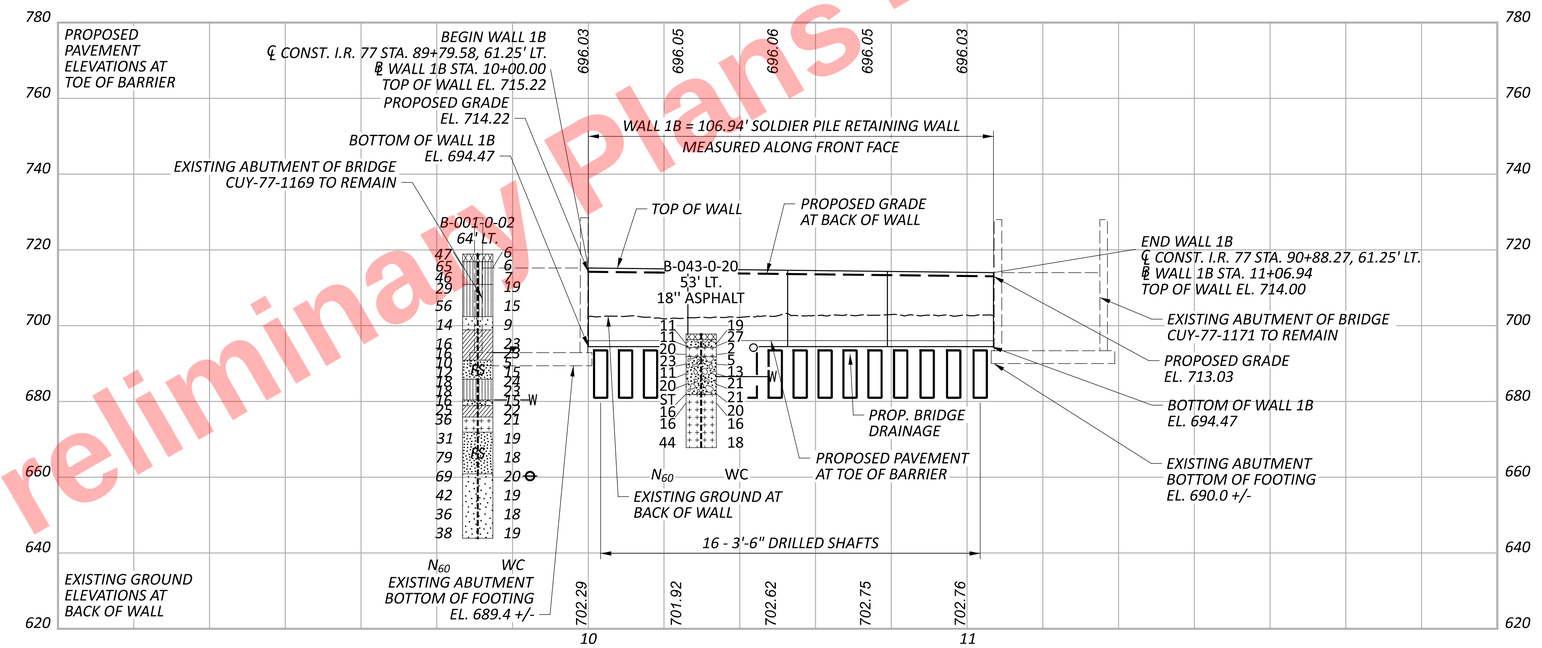
Preliminary Plans - For Reference Only





HORIZONTAL SCALE IN FEET
0 10 20 40

GEOTECHNICAL PROFILE - RETAINING WALL
RETAINING WALL 1B

DESIGN AGENCY
TRC

DESIGNER	NMC
REVIEWER	SDM 05/01/26
PROJECT ID	105743
SUBSET	24
TOTAL	85
SHEET	P.1208
TOTAL	P.1269

CUY-77-11.41

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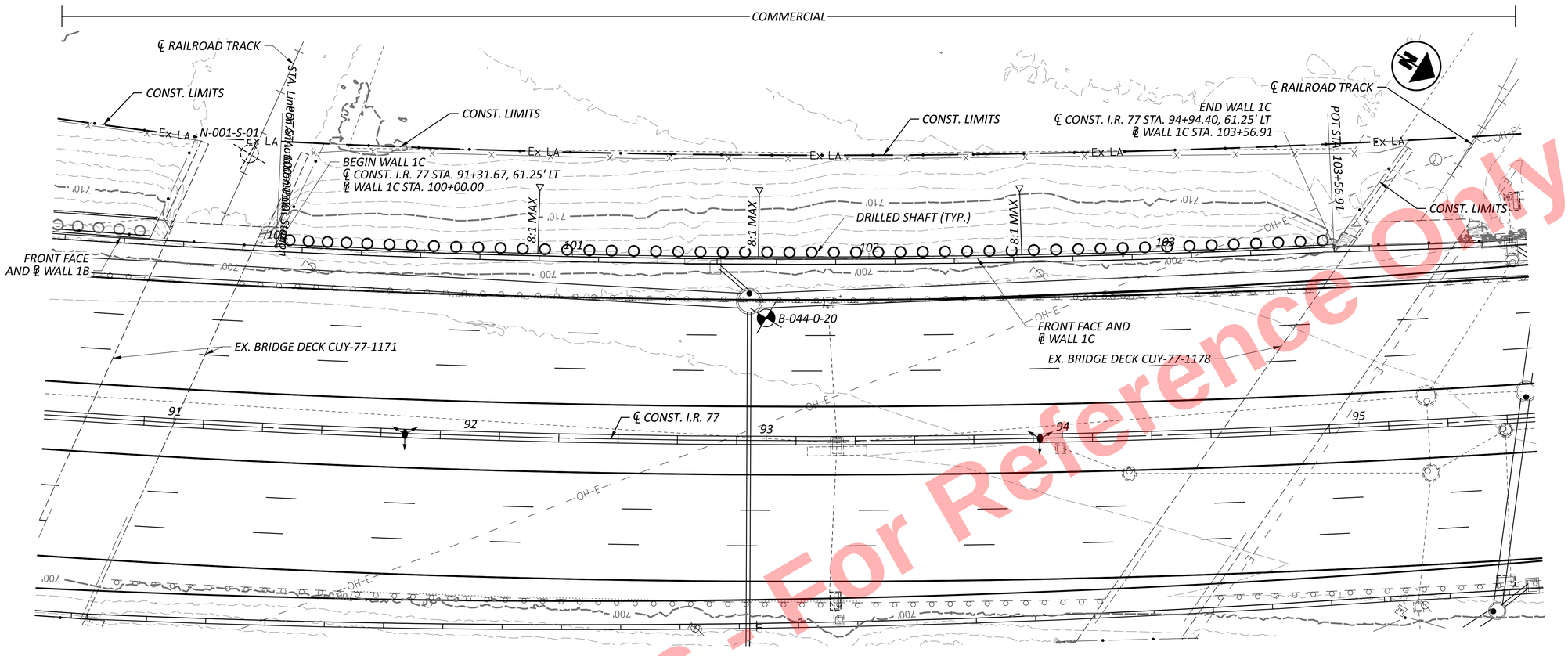
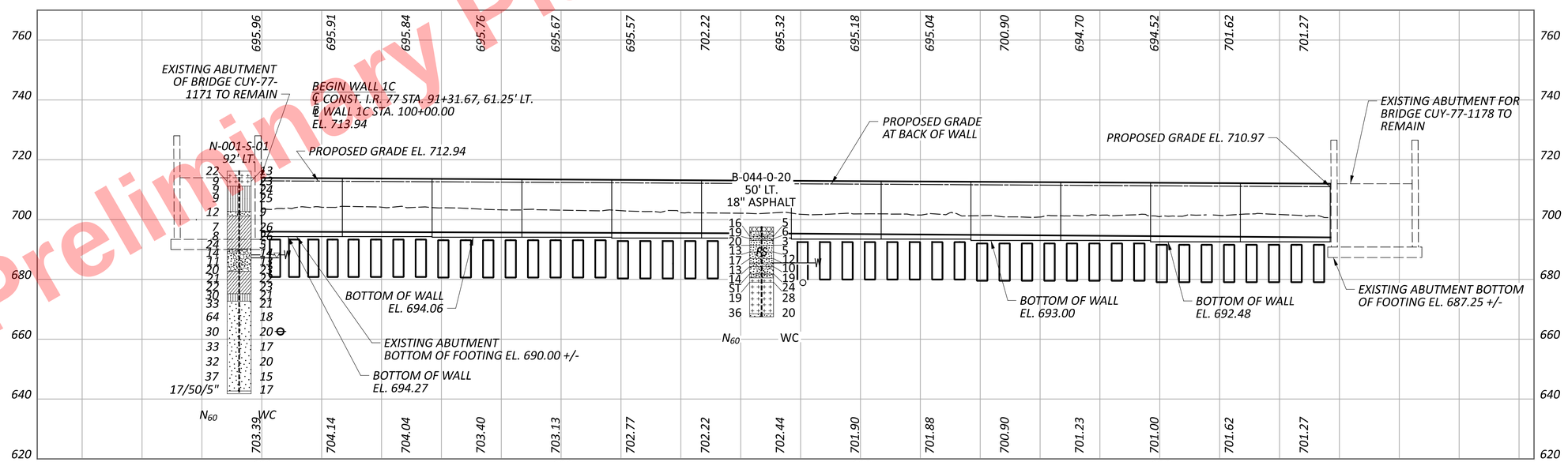
Preliminary Plans - For Reference Only





HORIZONTAL SCALE IN FEET
0 10 20 40

GEOTECHNICAL PROFILE - RETAINING WALL
RETAINING WALL 1C

CUY-77-11.41

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DESIGN AGENCY
TRC

DESIGNER
NMC

REVIEWER
SDM 05/01/26

PROJECT ID
105743

SUBSET 25 | TOTAL 85

SHEET P.1209 | TOTAL P.1269

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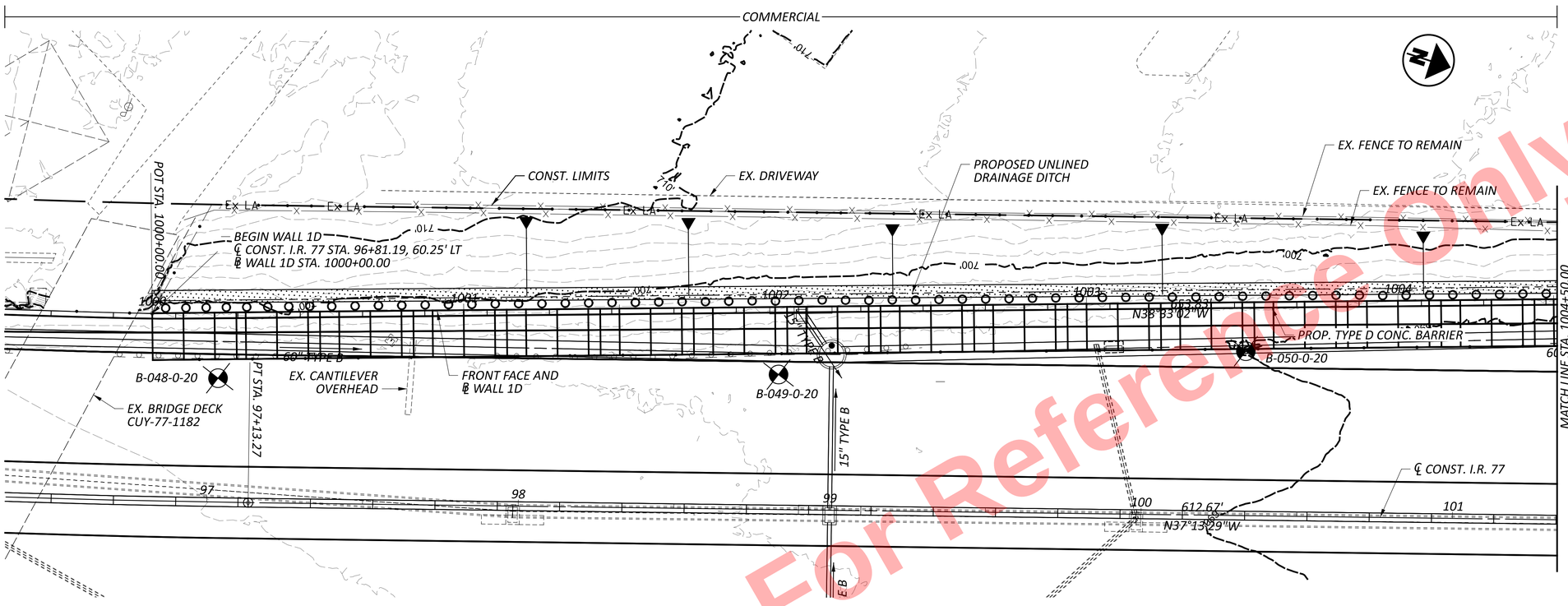
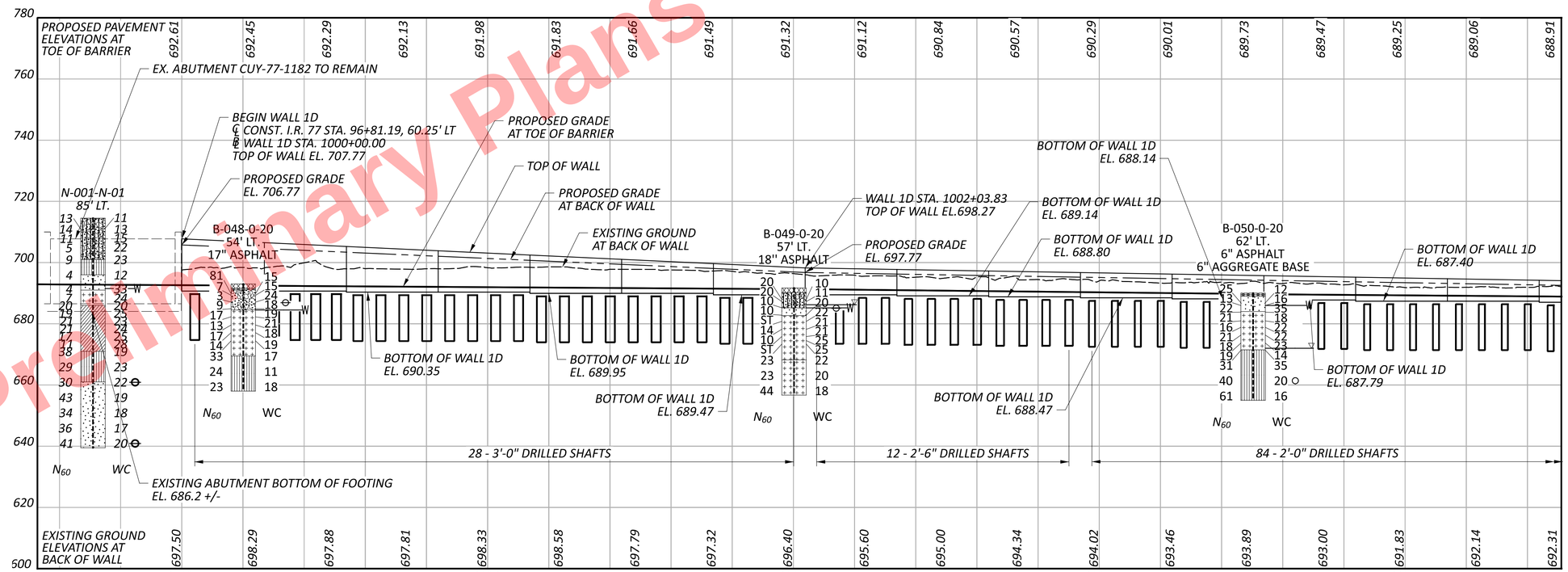
CUY-77-11.41





Preliminary Plans - For Reference Only

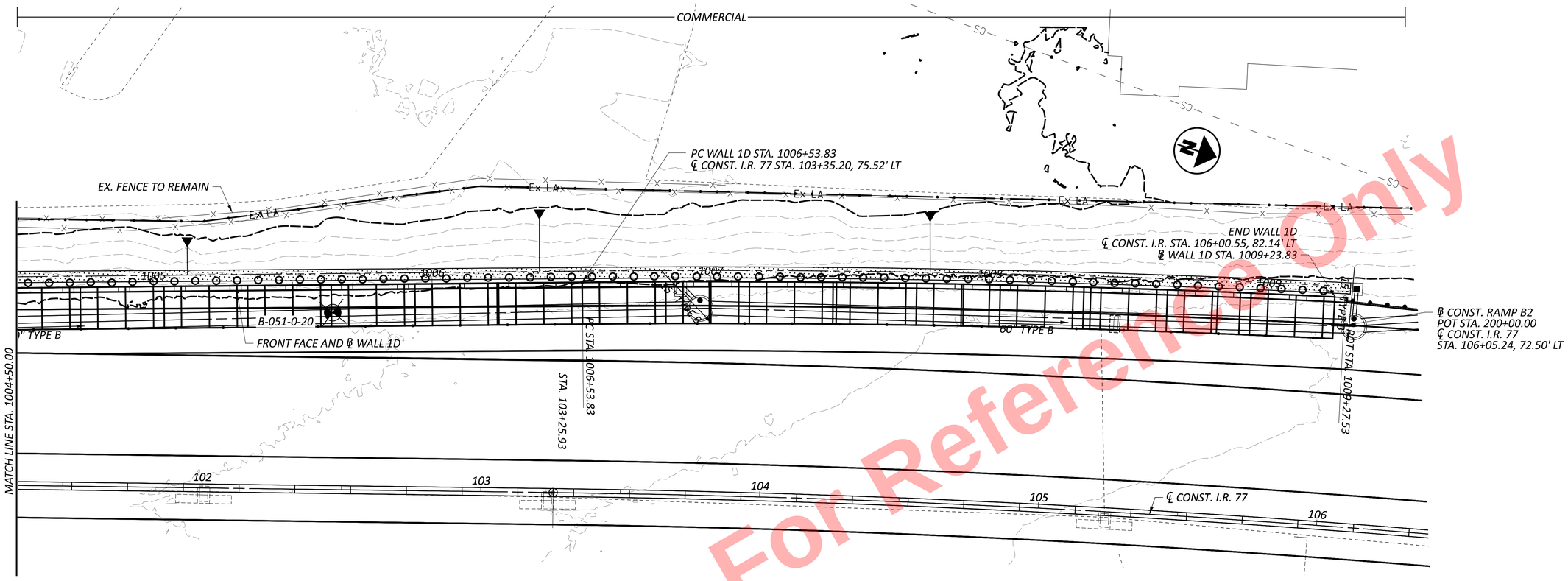
HORIZONTAL SCALE IN FEET
0 10 20 40

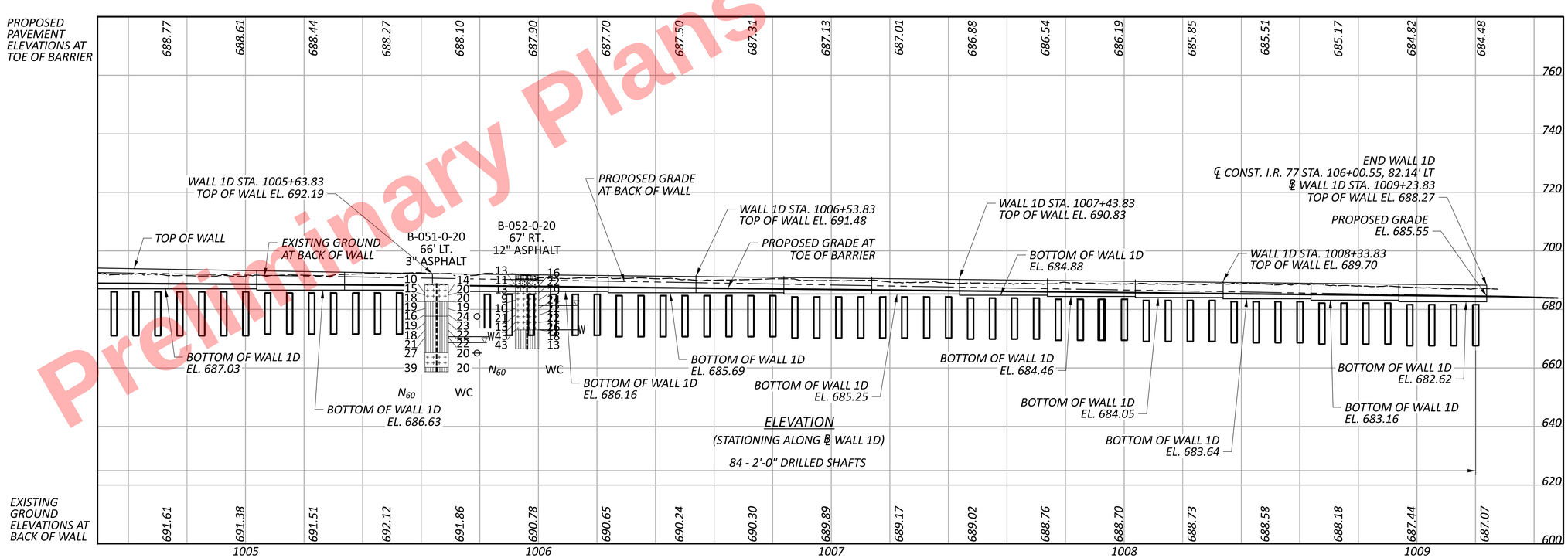
GEOTECHNICAL PROFILE - RETAINING WALL
RETAINING WALL 1D

DESIGN AGENCY
TRC

DESIGNER	NMC
REVIEWER	SDM 05/01/26
PROJECT ID	105743
SUBSET	26
TOTAL	85
SHEET	P.1210
TOTAL	P.1269

Preliminary Plans - For Reference Only





HORIZONTAL SCALE IN FEET
0 10 20 40

GEOTECHNICAL PROFILE - RETAINING WALL
RETAINING WALL 1D

CUY-77-11.41

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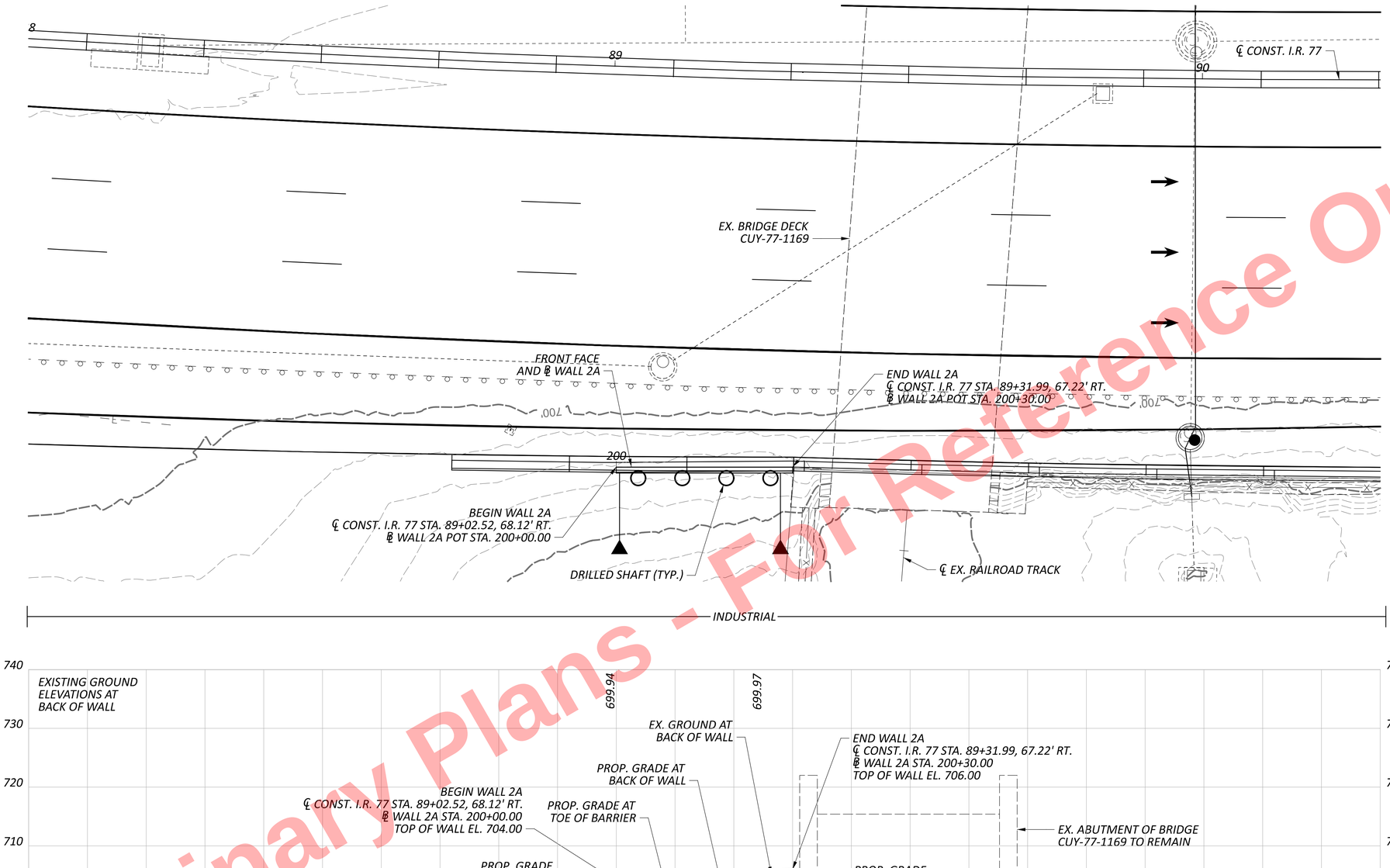
DESIGN AGENCY: TRC
DESIGNER: NMC
REVIEWER: SDM 05/01/26
PROJECT ID: 105743
SUBSET: 27 TOTAL: 85
SHEET: P.1211 TOTAL: P.1269



Preliminary Plans - For Reference Only

HORIZONTAL
SCALE IN FEET
0 10 20 40

GEOTECHNICAL PROFILE - RETAINING WALL
RETAINING WALL 2A

DESIGN AGENCY
TRC

DESIGNER
NMC

REVIEWER
SDM 05/01/26

PROJECT ID
105743

SUBSET 28 | TOTAL 85

SHEET P.1212 | TOTAL P.1269

CUY-77-11.41

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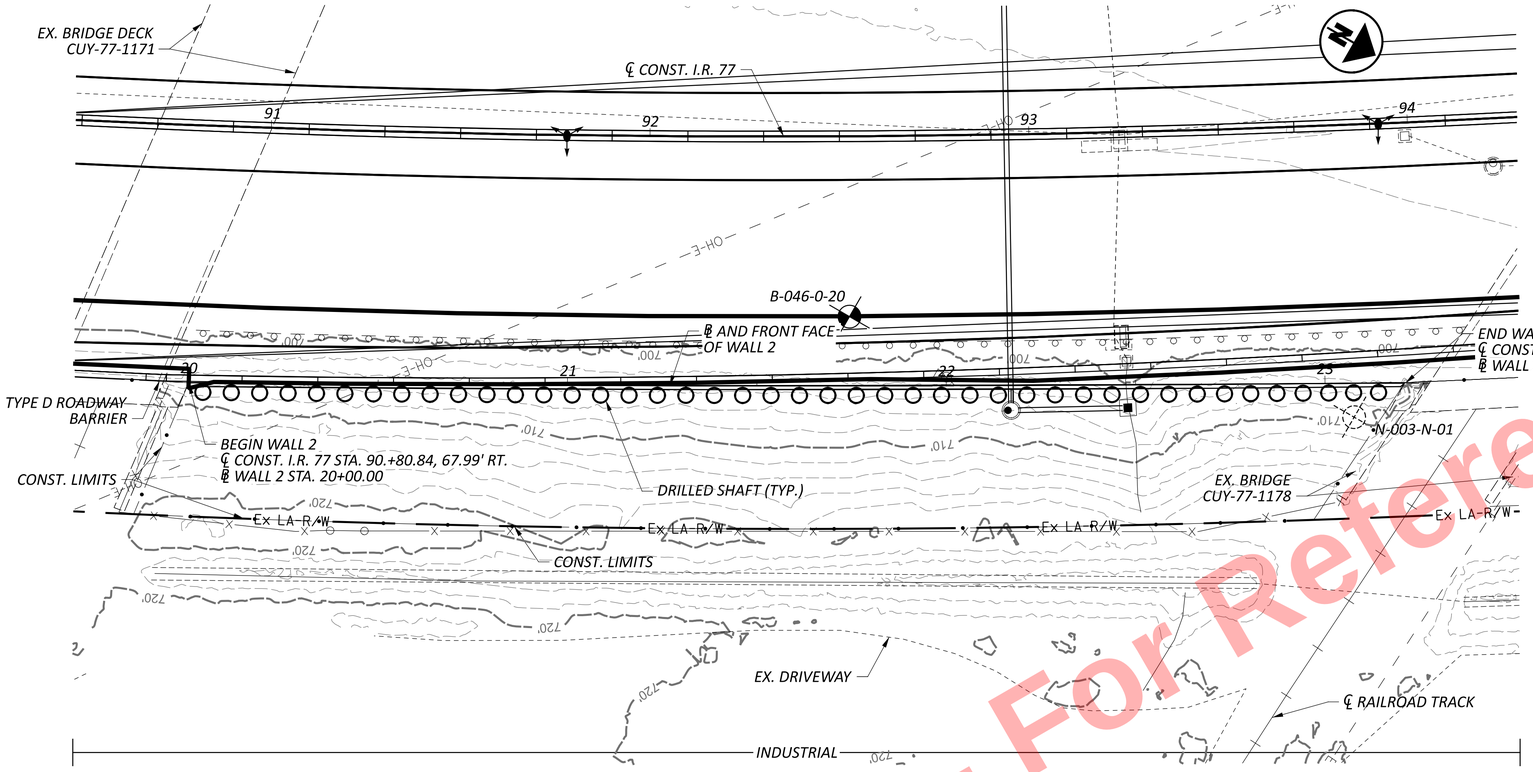

Preliminary Plans - For Reference Only

HORIZONTAL
SCALE IN FEET
0 10 20 40

GEOTECHNICAL PROFILE - RETAINING WALL
RETAINING WALL 2

DESIGN AGENCY
TRC

DESIGNER
NMC

REVIEWER
SDM 05/01/26

PROJECT ID
105743

SUBSET 29 | TOTAL 85

SHEET P.1213 | TOTAL P.1269

CUY-77-11.41

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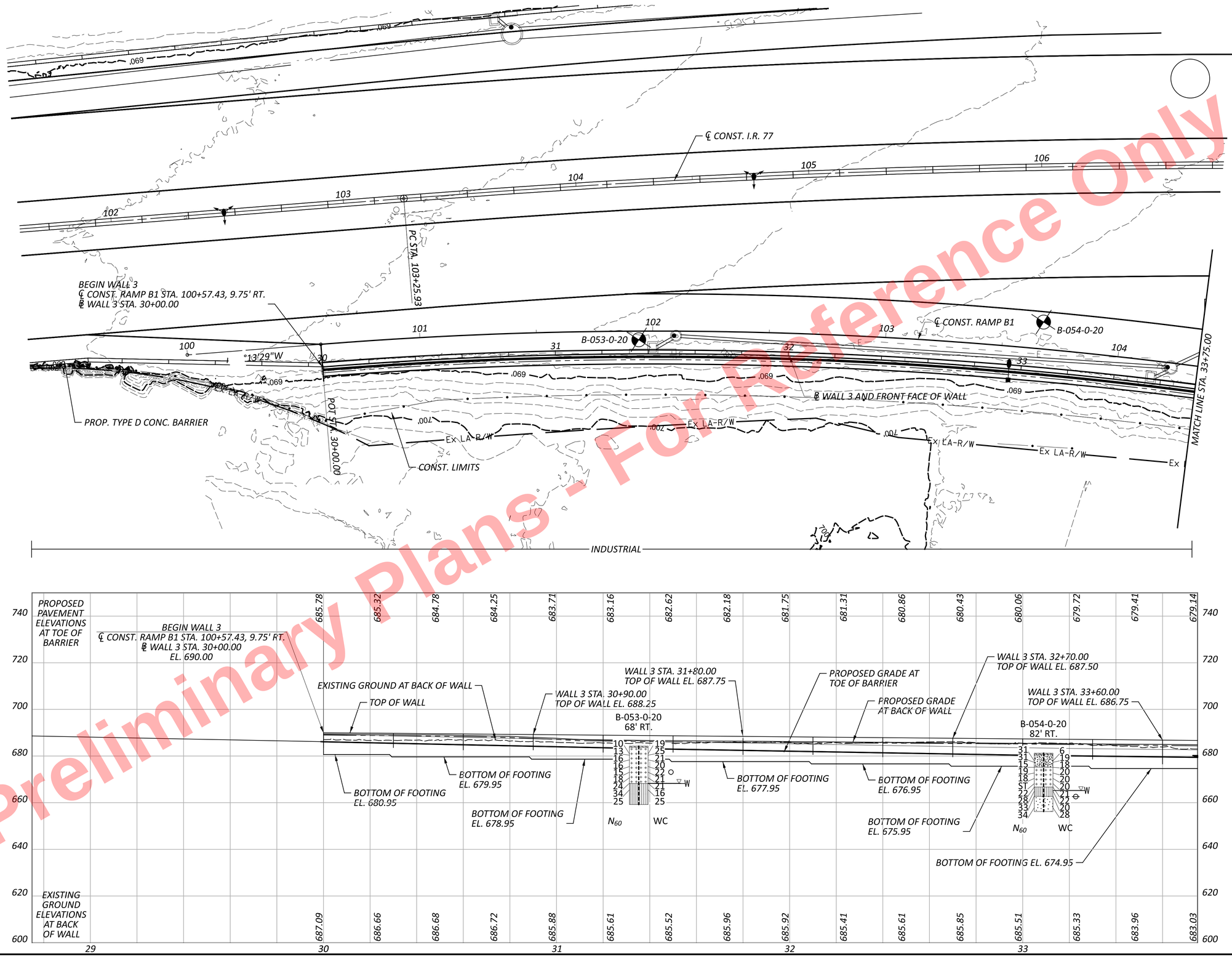

Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0 10 20 40

GEOTECHNICAL PROFILE - RETAINING WALL
RETAINING WALL 3

DESIGN AGENCY
TRC

DESIGNER	NMC
REVIEWER	SDM 05/01/26
PROJECT ID	105743
SUBSET	30
TOTAL	85
SHEET	P.1214
TOTAL	P.1269

CUY-77-11.41

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:08:49 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCtv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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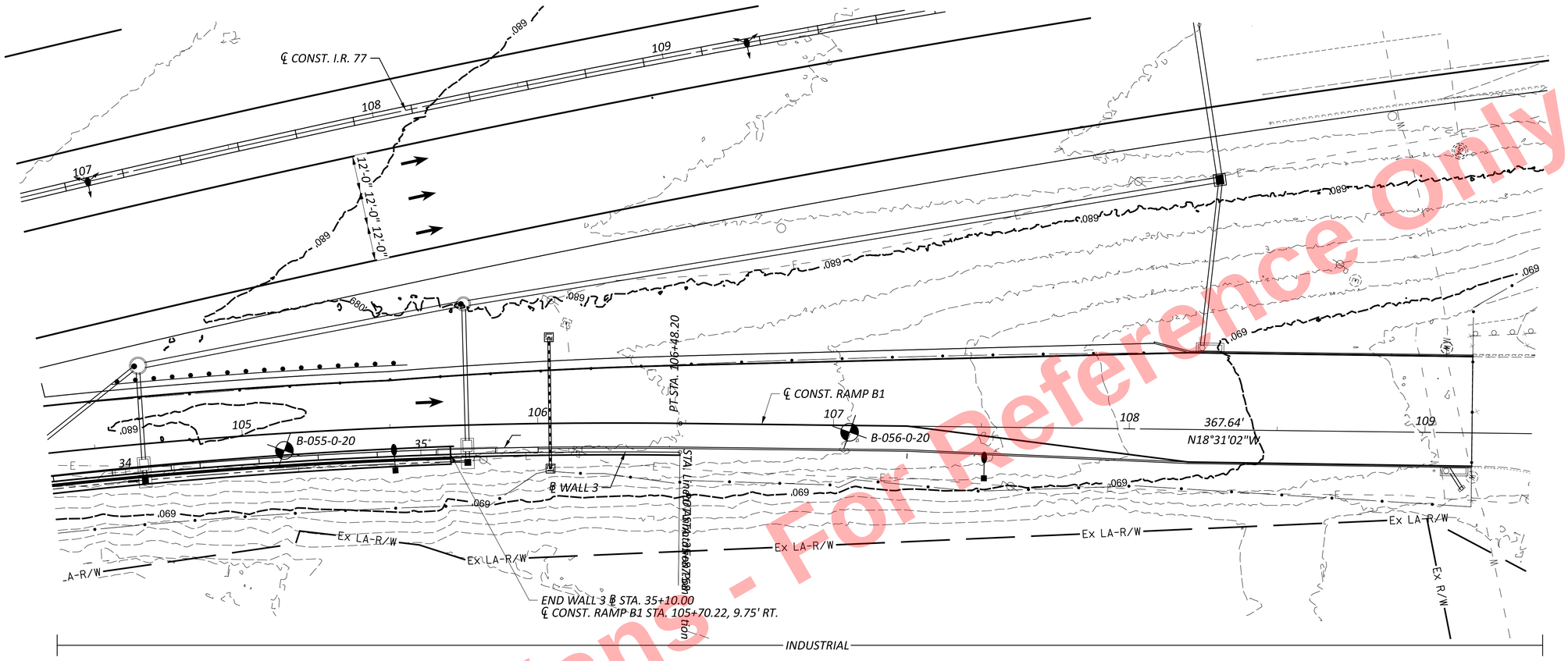
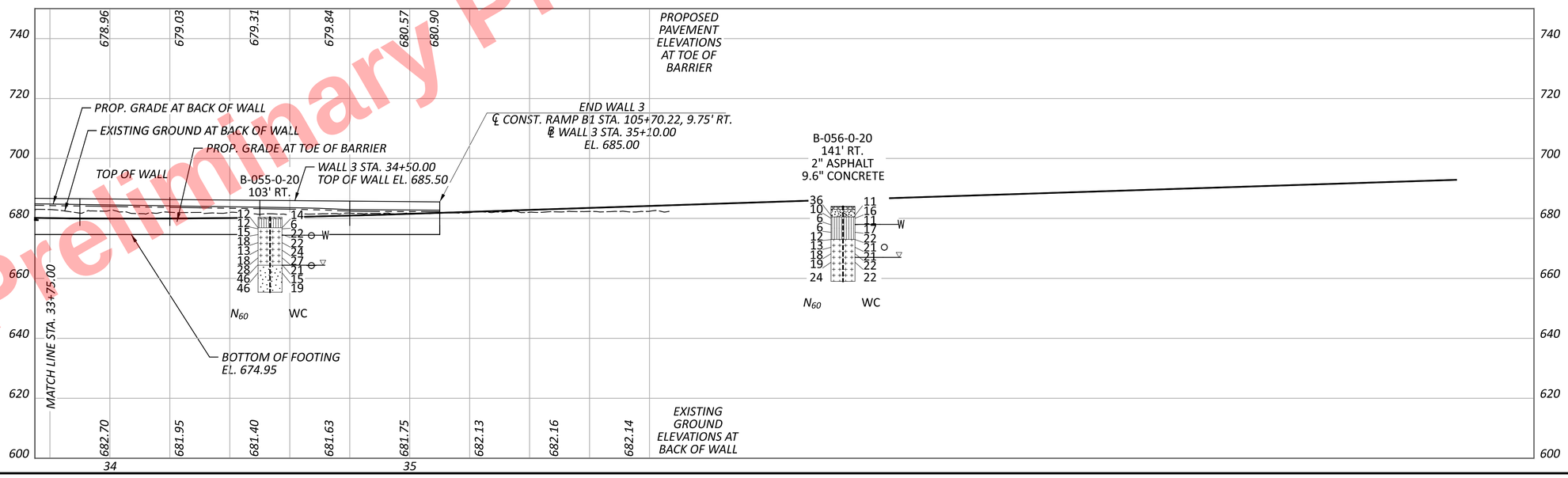
Preliminary Plans - For Reference Only





HORIZONTAL SCALE IN FEET
0 10 20 40

GEOTECHNICAL PROFILE - RETAINING WALL
RETAINING WALL 3

DESIGN AGENCY
TRC

DESIGNER	NMC
REVIEWER	SDM 05/01/26
PROJECT ID	105743
SUBSET	31
TOTAL	85
SHEET	P.1215
TOTAL	P.1269

CUY-77-11.41

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:09:11 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCtv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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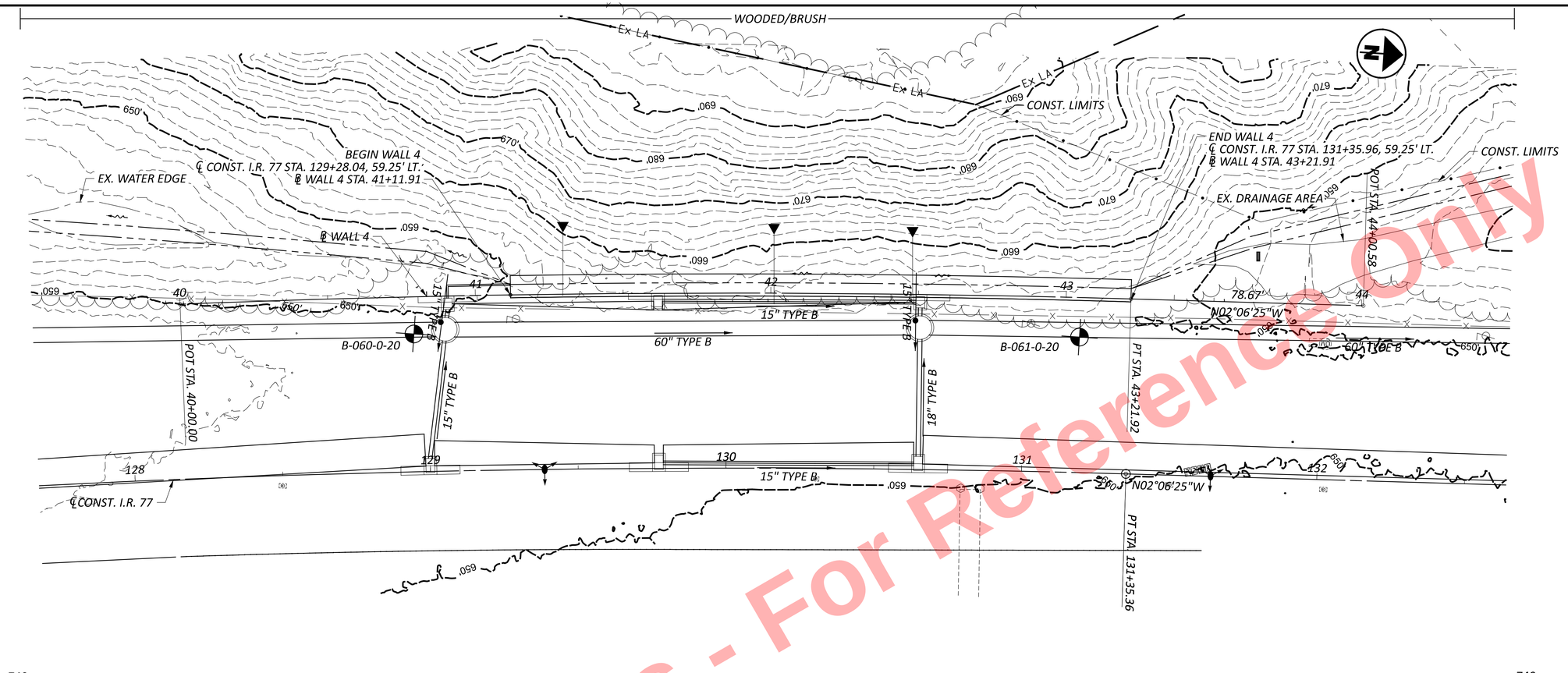
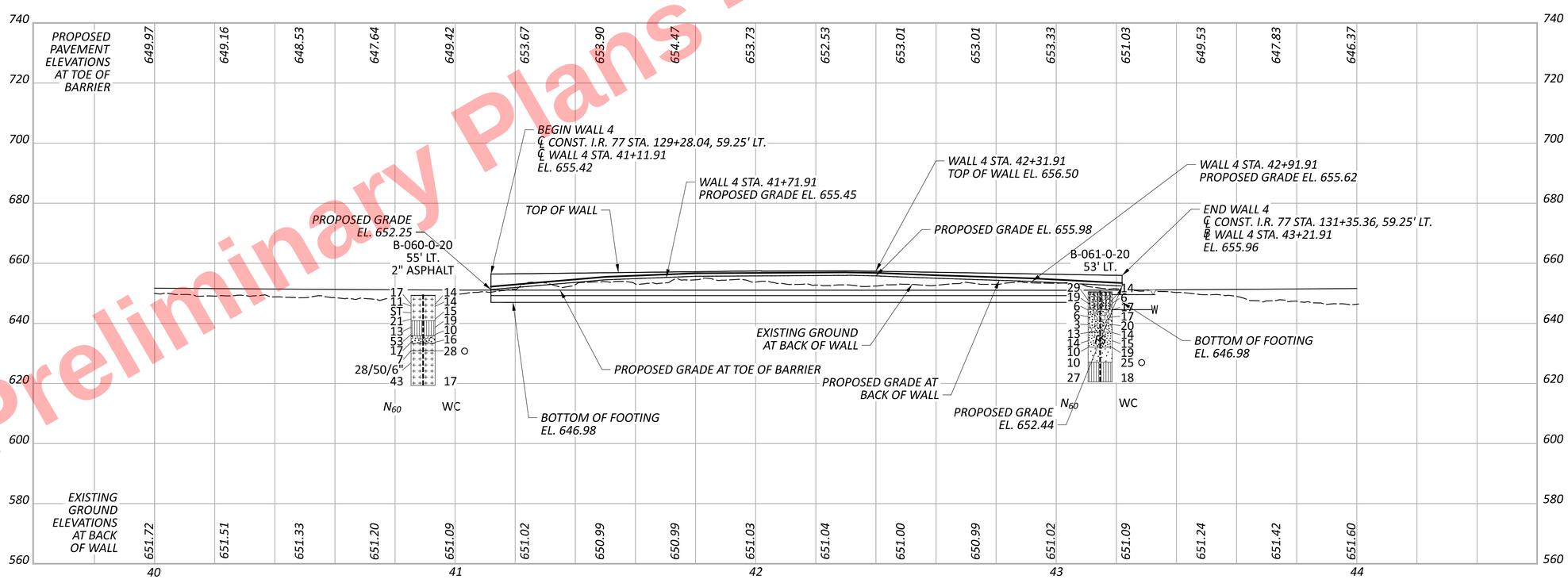
Preliminary Plans - For Reference Only





HORIZONTAL SCALE IN FEET
0 10 20 40

GEOTECHNICAL PROFILE - RETAINING WALL
RETAINING WALL 4

DESIGN AGENCY
TRC

DESIGNER NMC
REVIEWER SDM 05/01/26
PROJECT ID 105743
SUBSET 32 | TOTAL 85
SHEET P.1216 | TOTAL P.1269

CUY-77-11.41

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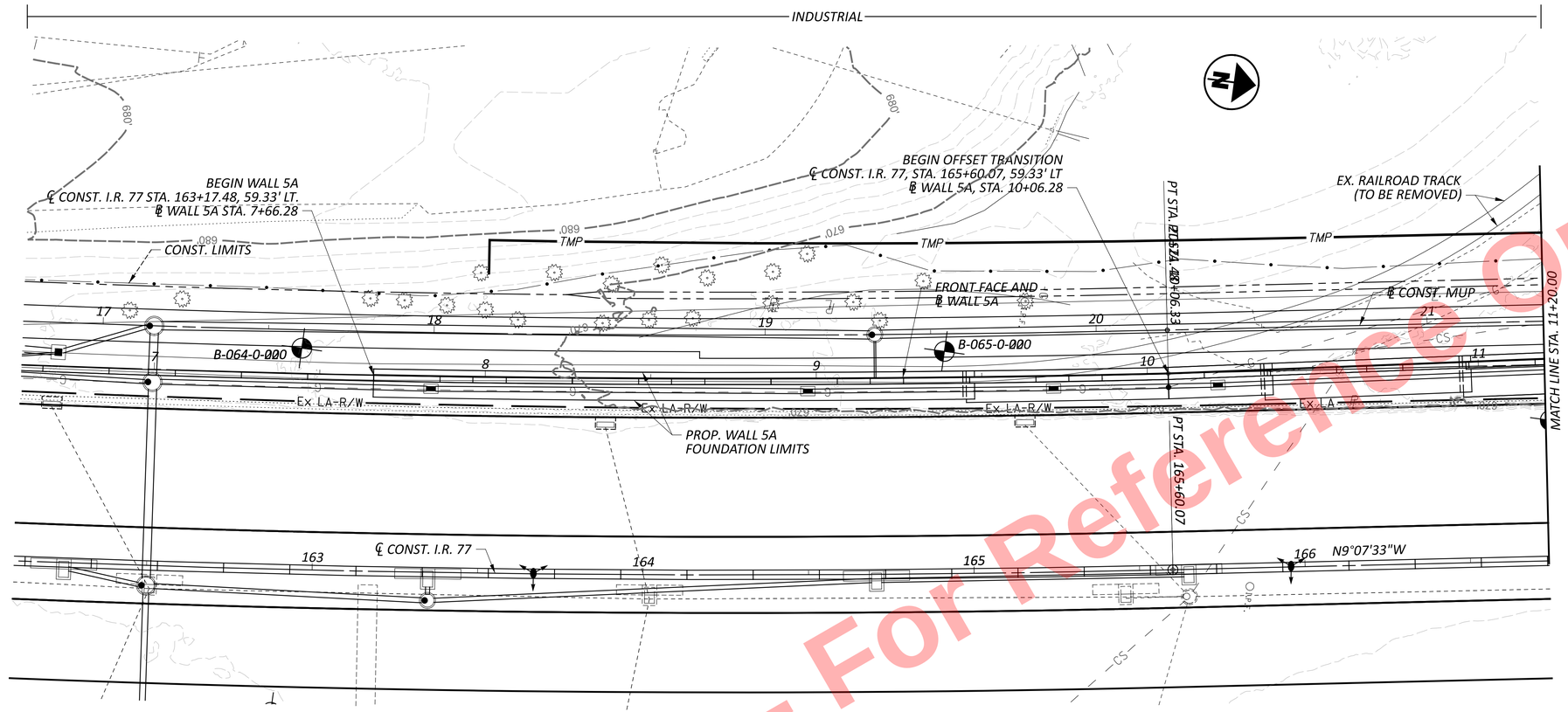
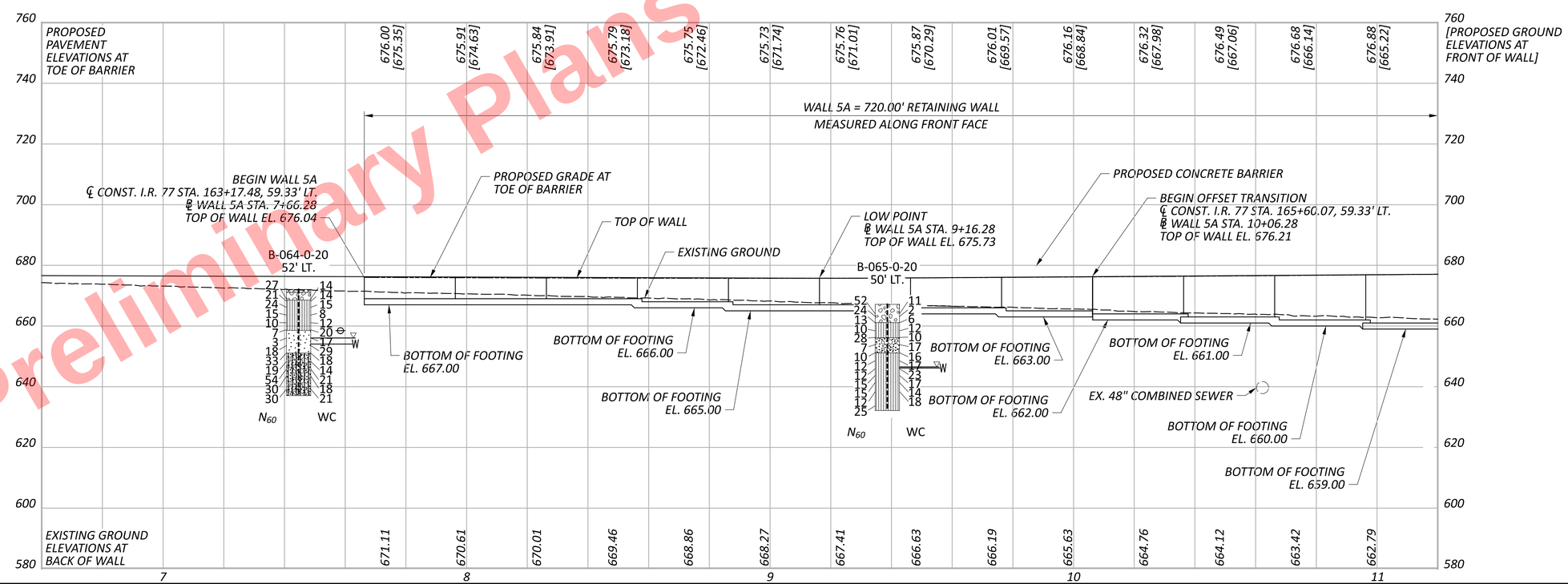
Preliminary Plans - For Reference Only





HORIZONTAL SCALE IN FEET
0 10 20 40

GEOTECHNICAL PROFILE - RETAINING WALL
RETAINING WALL 5A

DESIGN AGENCY
TRC

DESIGNER
NMC

REVIEWER
SDM 05/01/26

PROJECT ID
105743

SUBSET 33 | TOTAL 85

SHEET P.1217 | TOTAL P.1269

CUY-77-11.41

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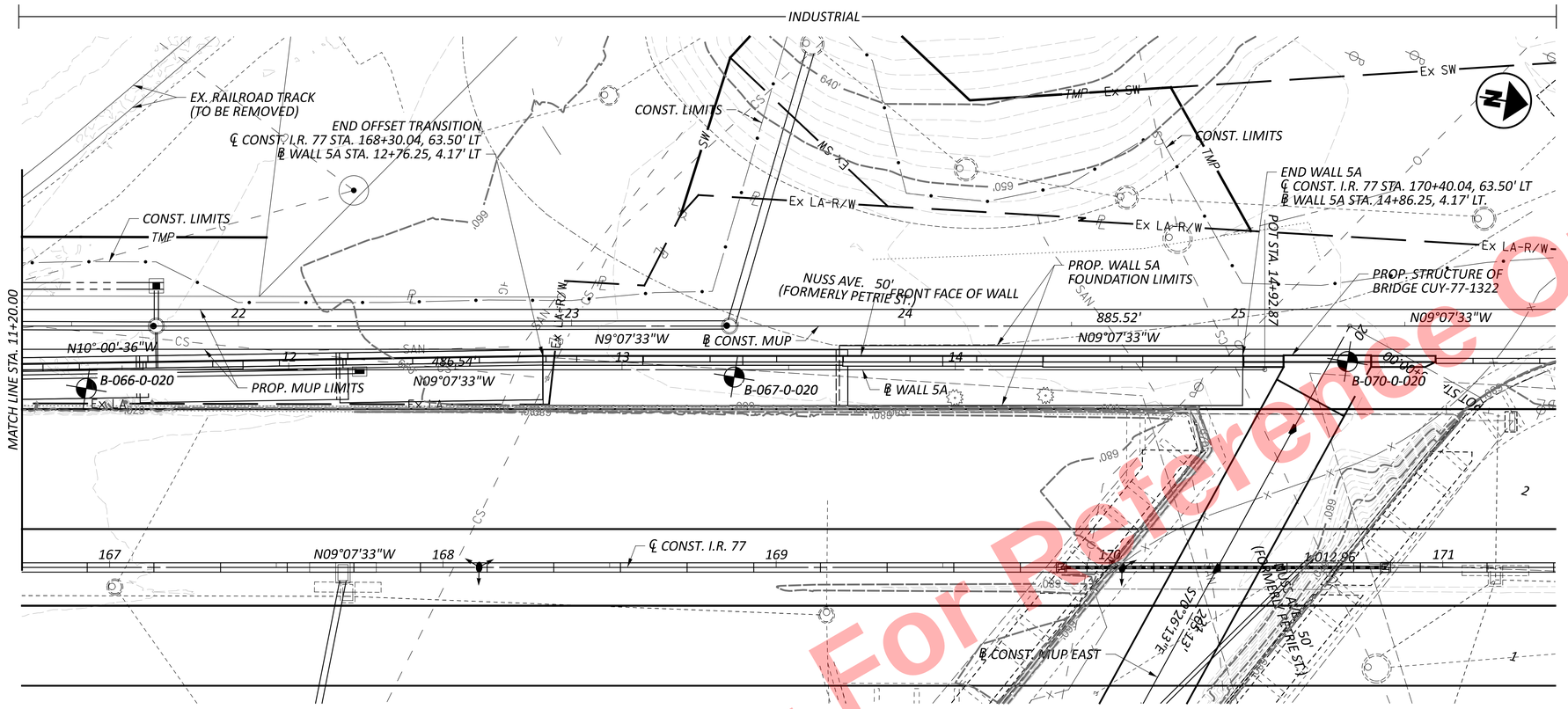
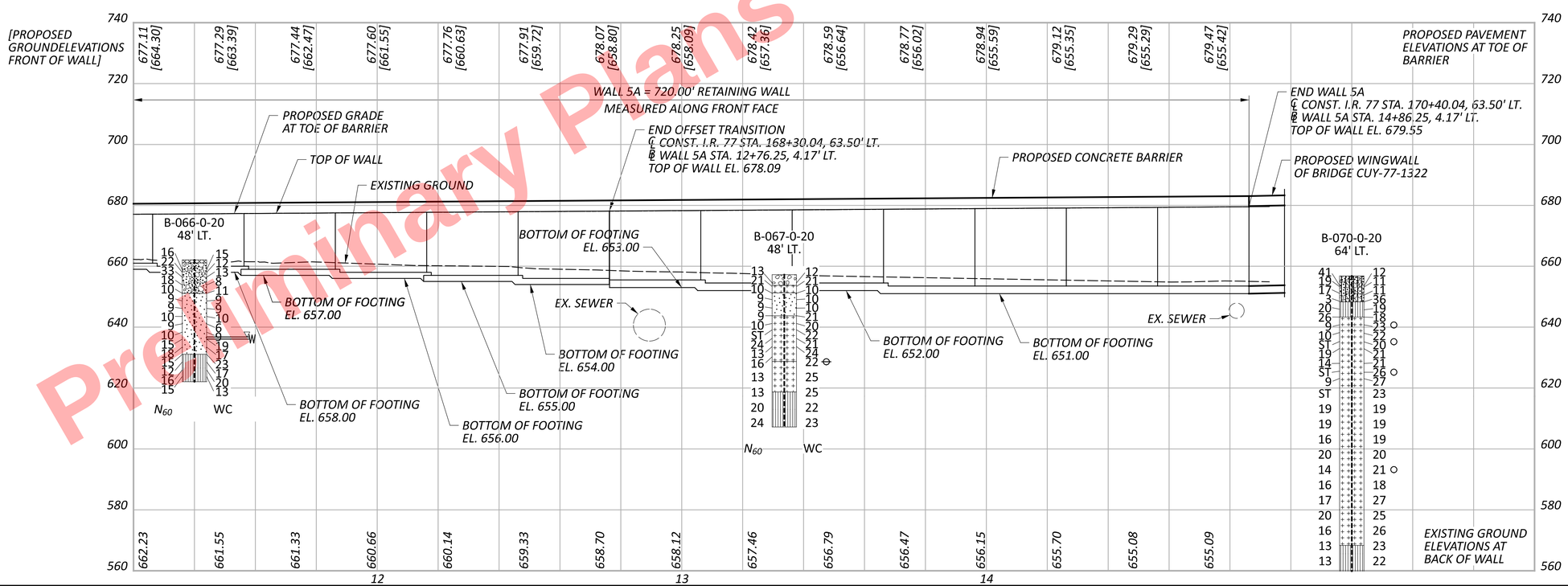
Preliminary Plans - For Reference Only





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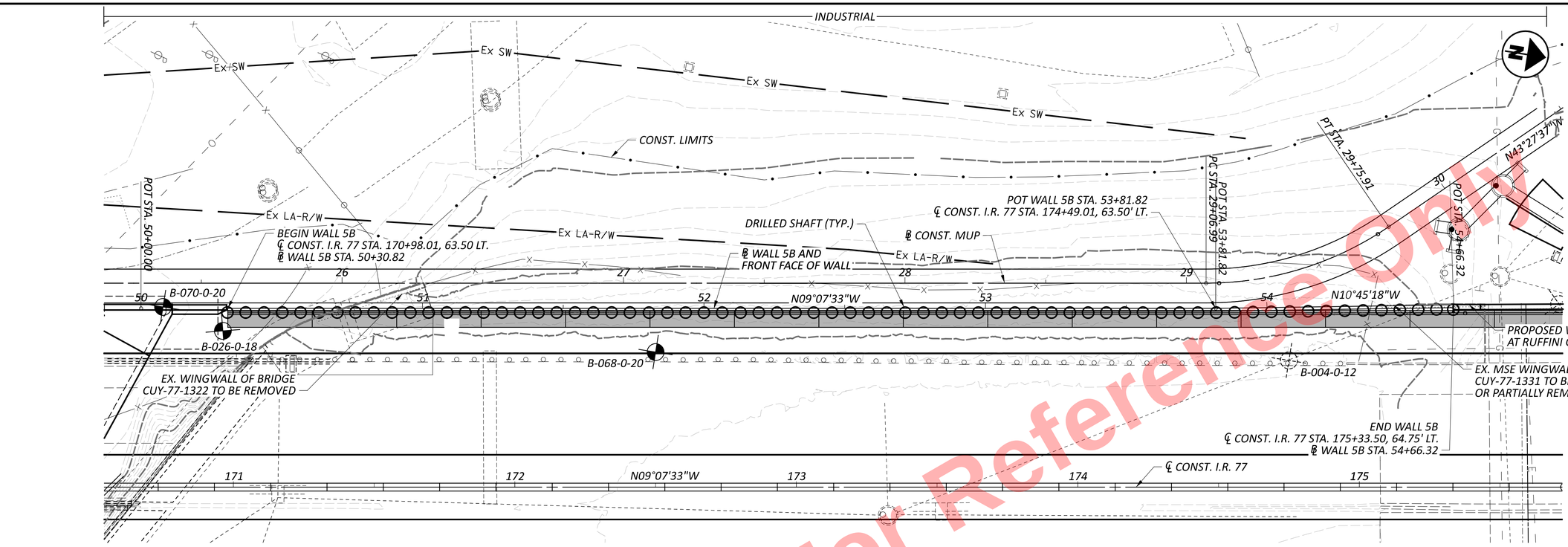
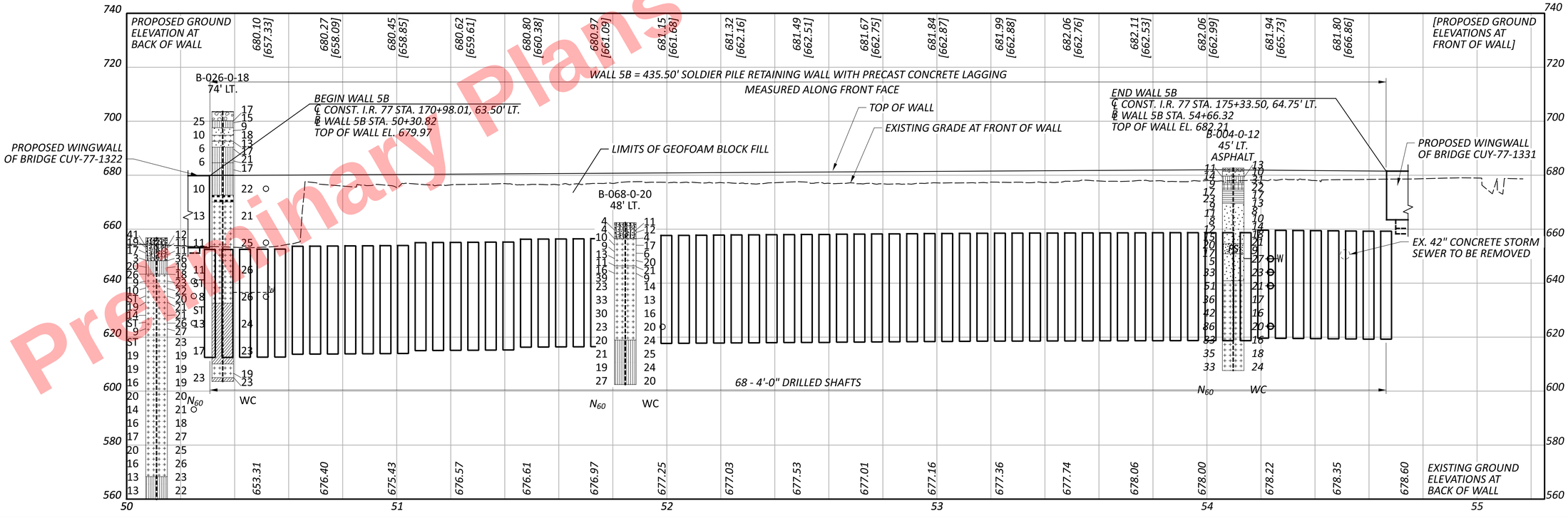
HORIZONTAL SCALE IN FEET
0 10 20 40

GEOTECHNICAL PROFILE - RETAINING WALL
RETAINING WALL 5A

DESIGN AGENCY
TRC
DESIGNER
NMC
REVIEWER
SDM 05/01/26
PROJECT ID
105743
SUBSET 34 | TOTAL 85
SHEET P.1218 | TOTAL P.1269

Preliminary Plans - For Reference Only





HORIZONTAL SCALE IN FEET
0

GEOTECHNICAL PROFILE - RETAINING WALL
RETAINING WALL 5B

DESIGN AGENCY
TRC

DESIGNER	NMC
REVIEWER	SDM 05/01/26
PROJECT ID	105743
SUBSET	35
TOTAL	85
SHEET	P.1219
TOTAL	P.1269

CUY-77-11.41

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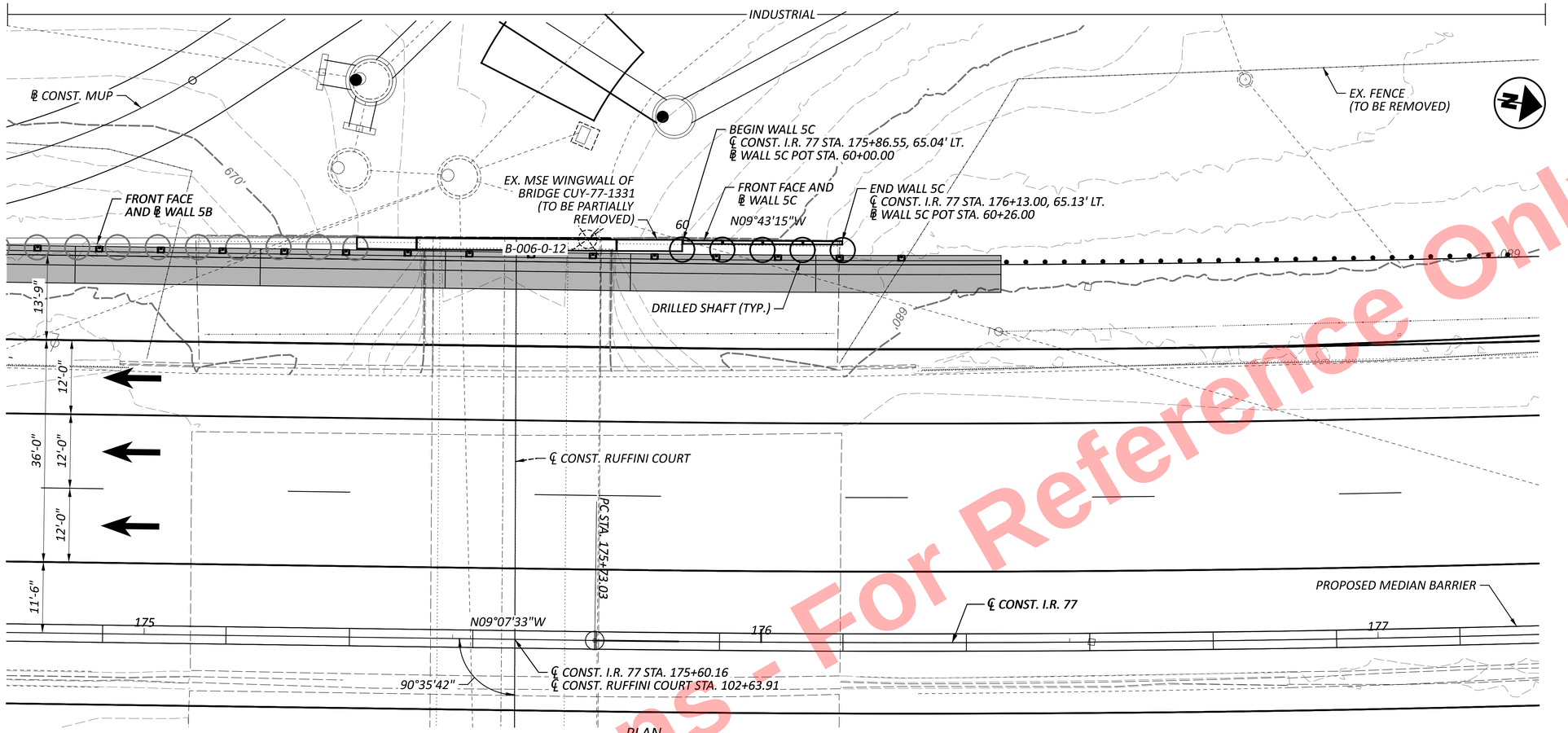
Preliminary Plans - For Reference Only



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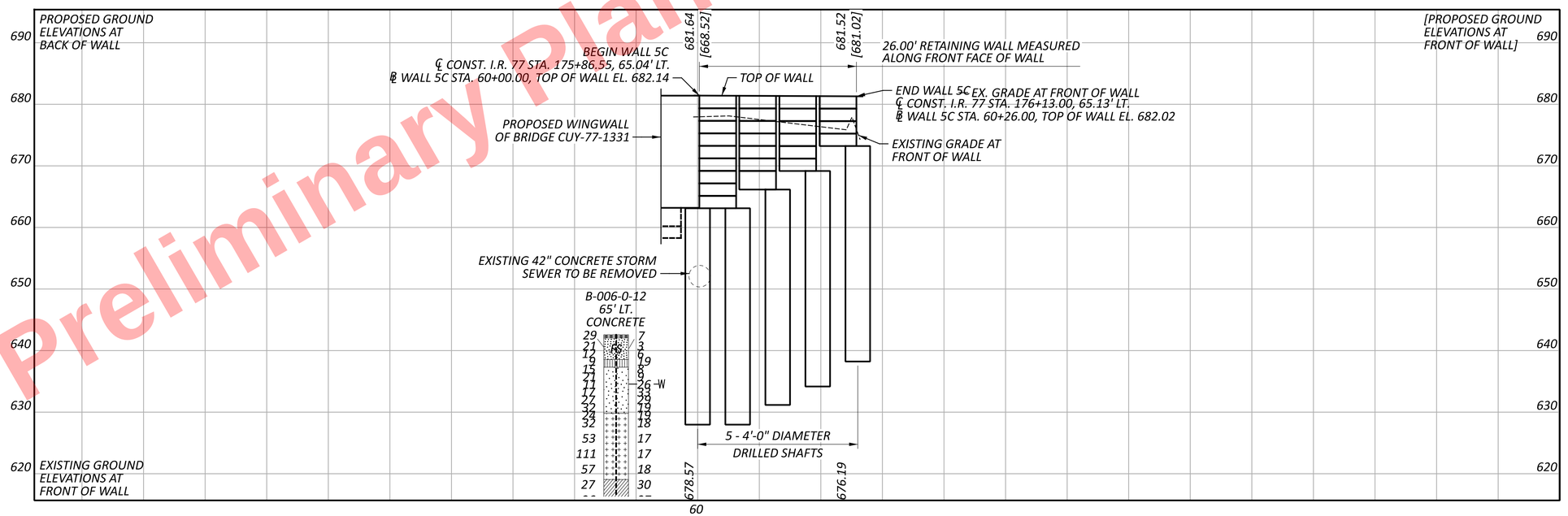

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HORIZONTAL SCALE IN FEET
0

GEOTECHNICAL PROFILE - RETAINING WALL
RETAINING WALL 5C

DESIGN AGENCY
TRC

DESIGNER	NMC
REVIEWER	SDM 05/01/26
PROJECT ID	105743
SUBSET	36
TOTAL	85
SHEET	P.1220
TOTAL	P.1269

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:12:07 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
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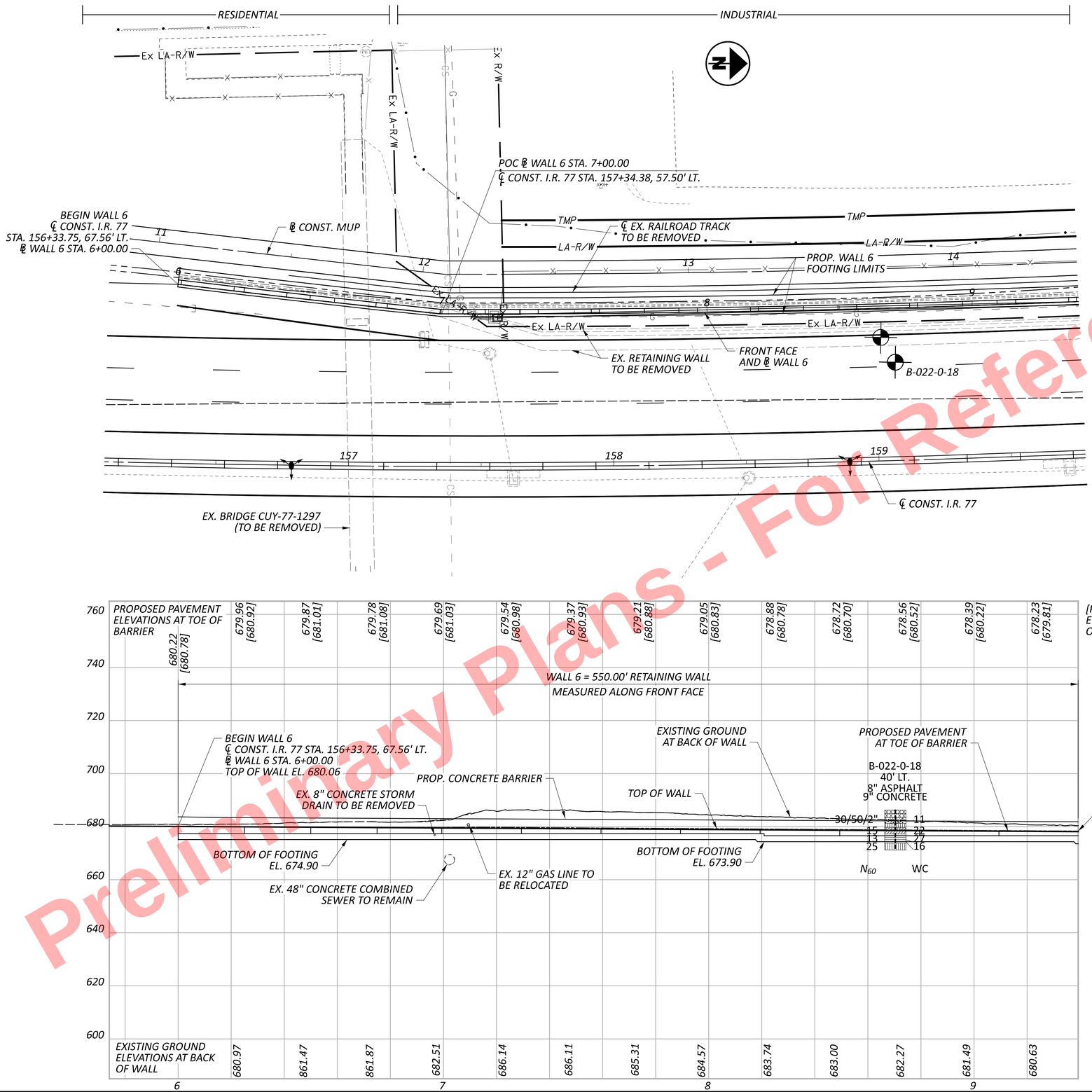

Preliminary Plans - For Reference Only

HORIZONTAL
SCALE IN FEET
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GEOTECHNICAL PROFILE - RETAINING WALL
RETAINING WALL 6

DESIGN AGENCY
TRC

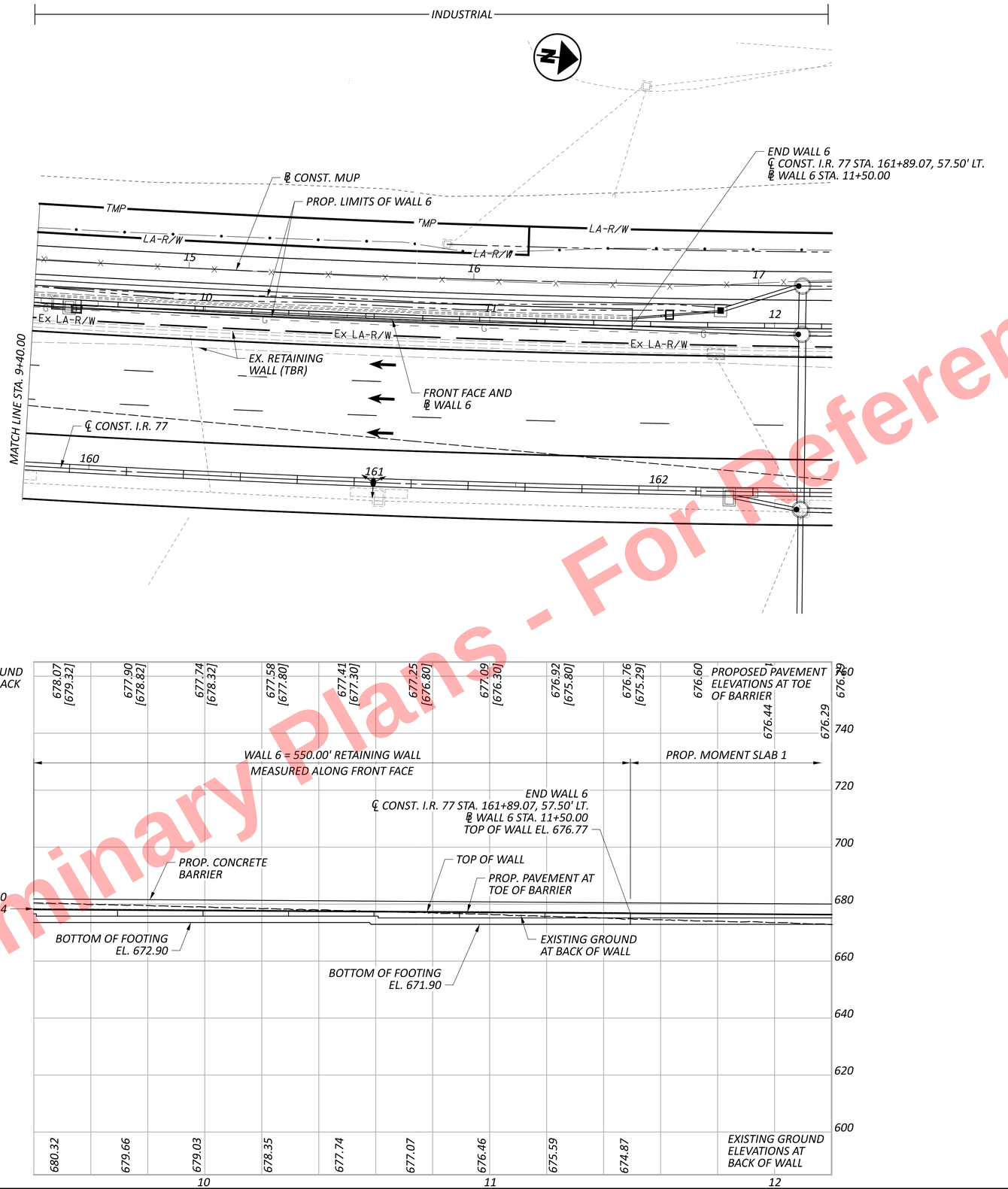
DESIGNER
NMC

REVIEWER
SDM 05/01/26

PROJECT ID
105743

SUBSET 37 | TOTAL 85

SHEET P.1221 | TOTAL P.1269



Preliminary Plans - For Reference Only

HORIZONTAL SCALE IN FEET
0

GEOTECHNICAL PROFILE - RETAINING WALL
RETAINING WALL 6

DESIGN AGENCY
TRC

DESIGNER	NMC
REVIEWER	SDM 05/01/26
PROJECT ID	105743
SUBSET / TOTAL	38 / 85
SHEET / TOTAL	P.1222 / P.1269

CUY-77-11.41

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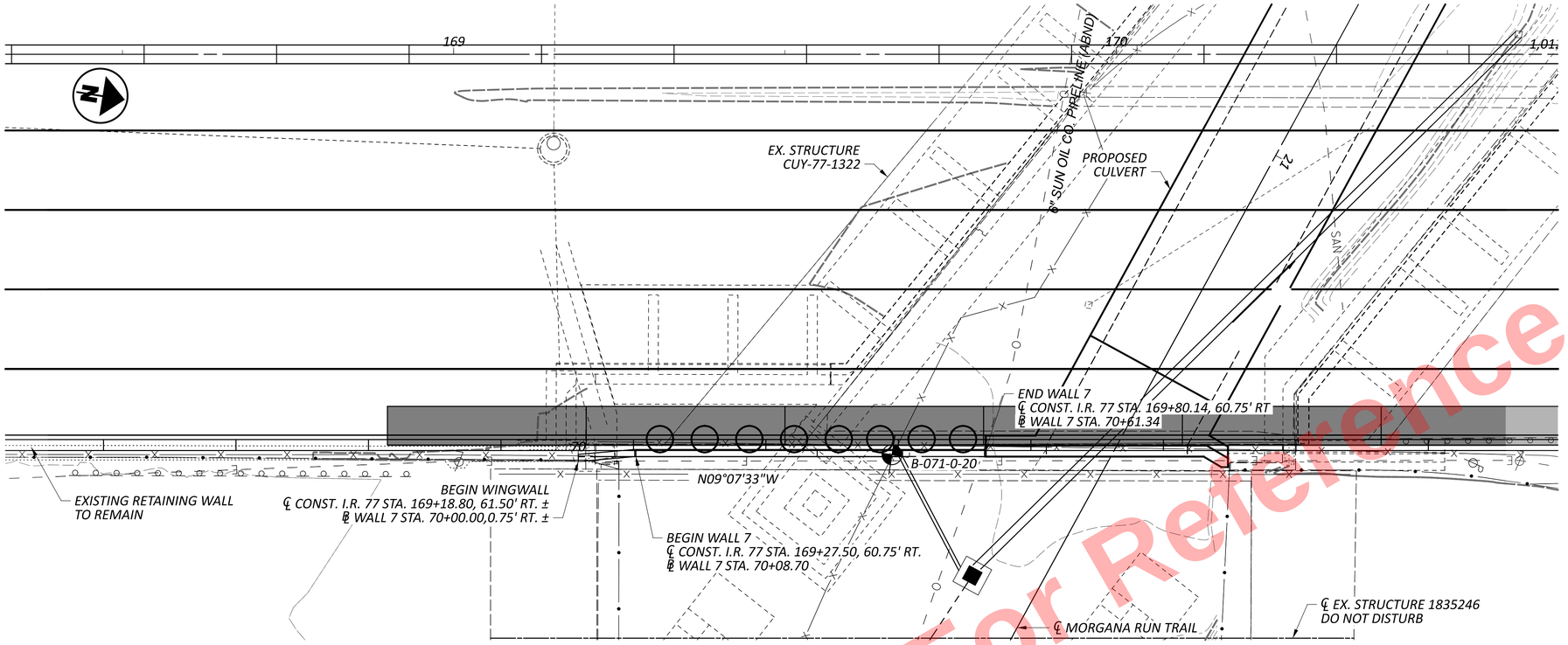

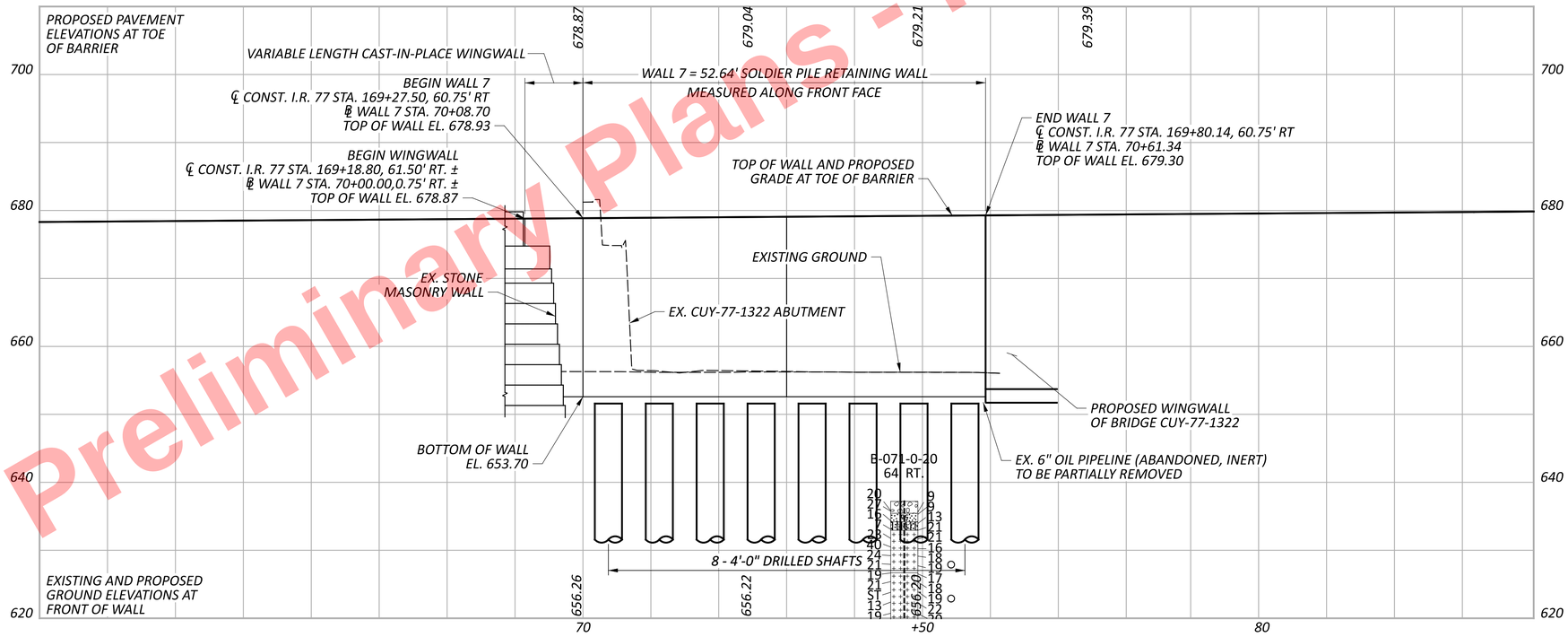

Preliminary Plans - For Reference Only

HORIZONTAL
SCALE IN FEET
0

GEOTECHNICAL PROFILE - RETAINING WALL
RETAINING WALL 7

DESIGN AGENCY
TRC

DESIGNER	NMC
REVIEWER	SDM 05/01/26
PROJECT ID	105743
SUBSET	39
TOTAL	85
SHEET	P.1223
TOTAL	P.1269

CUY-77-11.41

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:12:47 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZP019.dgn

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:13:14 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ID001.dgn

PROJECT: CUY-77-11.78
TYPE: BRIDGE
PID: G01037nn SFN: CUY-77-11.78
START: 9/14/01 END: 9/14/01

DRILLING FIRM / OPERATOR: ODOT / -
SAMPLING FIRM / LOGGER: ODOT / -
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: MOBILE B-53 R TRAILER
HAMMER: SAFETY HAMMER
CALIBRATION DATE: N/A
ENERGY RATIO (%): 60

STATION / OFFSET: 95+62, 85' LT.
ALIGNMENT: I-77
ELEVATION: 714.5 (ft) EOB: 75.0 ft.
COORD: Not Recorded

EXPLORATION ID N-001-N-01

MATERIAL DESCRIPTION AND NOTES	ELEV. 714.5	DEPTHS	SPT/RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	ABAN-DONED
LOOSE TO MEDIUM DENSE, BROWN AND BLACK, **GRAVEL WITH SAND AND SILT**, AND ROCK FRAGMENTS, SM ASPHALT FRAGMENTS, SM SLAG, RAILROAD EMBANKMENT FILL, MOIST			4 4 9	13	-	SS-1	-	-	-	-	-	-	-	-	-	11	A-2-4 (V)	
			5 7 7	14	-	SS-2	-	-	-	-	-	-	-	-	-	13	A-2-4 (V)	
			3 5 6	11	-	SS-3	-	-	-	-	-	-	-	-	-	15	A-2-4 (V)	
			2 2 3	5	-	SS-4	-	-	-	-	-	-	-	-	-	22	A-2-4 (V)	
	701.0																	
STIFF, BROWN AND GRAY, **SANDY SILT**, POSSIBLE NATURAL SOIL, MOIST			4 4 5	9	-	SS-5	-	-	-	-	-	-	-	-	-	23	A-4a (V)	
	696.0																	
VERY LOOSE, BROWN, **COARSE AND FINE SAND**, LITTLE GRAVEL, SOME SILT, MOIST TO WET			2 2 2	4	-	SS-6	-	-	-	-	-	-	-	-	-	12	A-3a (V)	
		W 691.5																
NOTE: ENCOUNTERED GROUNDWATER AT 23.0 FEET DURING DRILLING	691.0																	
VERY LOOSE TO LOOSE, BROWN, **SILT**, TRACE CLAY, TRACE GRAVEL, MOIST NON-COHESIVE			2 2 2	4	-	SS-7	-	-	-	-	-	-	-	-	-	33	A-4b (V)	
			2 3 4	7	-	SS-8	-	-	-	-	-	-	-	-	-	24	A-4b (V)	
	686.0																	
STIFF TO VERY STIFF, GRAY, **SILT AND CLAY**, TRACE TO NO SAND, MOIST			7 9 11	20	-	SS-9	-	-	-	-	-	-	-	-	-	20	A-6a (V)	
			6 10 9	19	-	SS-10	-	-	-	-	-	-	-	-	-	25	A-6a (V)	
			5 9 12	21	-	SS-11	-	0	1	0	-	99 -	31	12	19	23	A-6a (12)	
			5 7 14	21	-	SS-12	-	-	-	-	-	-	-	-	-	24	A-6a (V)	
			4 7 10	17	-	SS-13	-	-	-	-	-	-	-	-	-	25	A-6a (V)	
			3 5 6	11	-	SS-14	-	0	0	0	-	100 -	34	14	20	28	A-6a (12)	
	671.0																	
MEDIUM DENSE TO DENSE, GRAY, **SANDY SILT**, TRACE CLAY, MOIST NON-COHESIVE			9 18 20	38	-	SS-15	-	-	-	-	-	-	-	-	-	19	A-4a (V)	
			10 13 16	29	-	SS-16	-	-	-	-	-	-	-	-	-	23	A-4a (V)	
	661.0																	
MEDIUM DENSE TO DENSE, GRAY, **COARSE AND FINE SAND**, LITTLE TO SOME SILT AND CLAY, WET			9 15 15	30	-	SS-17	-	0	1	81	-	18 -	NP	NP	NP	22	A-3a (0)	
			15 18 25	43	-	SS-18	-	-	-	-	-	-	-	-	-	19	A-3a (V)	

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 13:45 - W:\ODOT\301525 CUY-77-11.41 PID_105743\GEOTECHNICAL\TRC LOGS\G01037NN_HISTORICAL CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1224 TOTAL P.1269	40 TOTAL 85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR N-001-N-01

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:14:01 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ID002.dgn

PID: G01037nn | SFN: CUY-77-11.78 | PROJECT: CUY-77-11.78 | STATION / OFFSET: 95+62, 85' LT. | START: 9/14/01 | END: 9/14/01 | PG 2 OF 2 | N-001-N-01

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	ABAN-DONED
MEDIUM DENSE TO DENSE, GRAY, **COARSE AND FINE SAND**, LITTLE TO SOME SILT AND CLAY, WET *(continued)*	654.5	61																
		62																
		63																
		64	10 15 19	34	-	SS-19	-	-	-	-	-	-	-	-	-	18	A-3a (V)	
		65																
		66																
		67																
		68																
		69	12 16 20	36	-	SS-20	-	-	-	-	-	-	-	-	-	17	A-3a (V)	
		70																
		71																
		72																
		73																
		74	10 18 23	41	-	SS-21	-	0	2	75	-	23 -	NP	NP	NP	20	A-3a (0)	
	639.5	75 EOB																

NOTES: HISTORICAL BORING LOG RETYPED FROM BORING NO. NSSN-1 COMPLETED ON 9/14/2001 FOR PROJECT NO. G01037NN [CUY-77-11.78 (N&SS NORTH BRIDGE)]

ABANDONMENT METHODS, MATERIALS, QUANTITIES: NOT RECORDED

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 13:45 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\G01037NN_HISTORICAL CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1225 TOTAL P.1269	41 TOTAL 85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR N-001-N-01 (CONT.)

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:14:42 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ID003.dgn

PROJECT: CUY-77-11.11
TYPE: BRIDGE
PID: G01037ns SFN: CUY-77-11.11
START: 9/17/01 END: 9/17/01

DRILLING FIRM / OPERATOR: ODOT / -
SAMPLING FIRM / LOGGER: ODOT / -
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: MOBILE B-53 R TRAILER
HAMMER: SAFETY HAMMER
CALIBRATION DATE: N/A
ENERGY RATIO (%): 60

STATION / OFFSET: 91+21, 92' LT.
ALIGNMENT: I-77
ELEVATION: 716.2 (ft) EOB: 74.4 ft.
COORD: Not Recorded

EXPLORATION ID N-001-S-01

MATERIAL DESCRIPTION AND NOTES	ELEV. 716.2	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	ABAN-DONED
LOOSE TO MEDIUM DENSE, BROWN AND GRAY, **SILT**, TRACE CLAY, TRACE SLAG, RAILROAD EMBANKMENT FILL, MOIST NON-COHESIVE			6 10 12	22	-	SS-1	-	-	-	-	-	-	-	-	-	13	A-4b (V)	
	711.2		3 4 5	9	-	SS-2	-	-	-	-	-	-	-	-	-	23	A-4b (V)	
STIFF, GRAY TO BROWN, **SANDY SILT**, SOME CLAY, RAILROAD EMBANKMENT FILL, MOIST COHESIVE			3 3 6	9	-	SS-3	-	-	-	-	-	-	-	-	-	24	A-4a (V)	
	702.7		4 4 5	9	-	SS-4	-	-	-	-	-	-	-	-	-	25	A-4a (V)	
MEDIUM DENSE, BROWN, **FINE SAND**, TRACE SILT AND CLAY, RAILROAD EMBANKMENT FILL, MOIST	701.2		3 5 7	12	-	SS-5	-	-	-	-	-	-	-	-	-	9	A-3 (V)	
MEDIUM STIFF, BROWN, **SILT AND CLAY**, TRACE SAND, POSSIBLE NATURAL SOIL, MOIST			3 3 4	7	-	SS-6	-	-	-	-	-	-	-	-	-	26	A-6a (V)	
	690.2		4 4 4	8	-	SS-7	-	-	-	-	-	-	-	-	-	26	A-6a (V)	
LOOSE TO MEDIUM DENSE, BROWN, **GRAVEL WITH SAND**, TRACE SILT AND CLAY, MOIST TO WET			9 12 12	24	-	SS-8	-	-	-	-	-	-	-	-	-	5	A-1-b (V)	
NOTE: ENCOUNTERED GROUNDWATER AT 28.0 FEET DURING DRILLING AND AT 29.0 FEET UPON COMPLETION		W 688.2 ▽ 687.2	4 5 9	14	-	SS-9	-	-	-	-	-	-	-	-	-	14	A-1-b (V)	
	682.7		4 4 7	11	-	SS-10	-	32	38	22	8	-	NP	NP	NP	13	A-1-b (0)	
VERY STIFF, GRAY, **SILT AND CLAY**, TRACE SAND, MOIST			4 10 10	20	-	SS-11	-	-	-	-	-	-	-	-	-	23	A-6a (V)	
			5 9 12	21	-	SS-12	-	-	-	-	-	-	-	-	-	22	A-6a (V)	
			5 7 15	22	-	SS-13	-	0	0	1	99	-	32	13	19	23	A-6b (12)	
	675.2		8 15 15	30	-	SS-14	-	-	-	-	-	-	-	-	-	21	A-4a (V)	
VERY STIFF, GRAY, **SANDY SILT**, MOIST COHESIVE	672.7																	
DENSE TO VERY DENSE, GRAY TO BROWN, **COARSE AND FINE SAND**, LITTLE SILT AND CLAY, MOIST			18 15 18	33	-	SS-15	-	-	-	-	-	-	-	-	-	21	A-3a (V)	
			20 29 35	64	-	SS-16	-	-	-	-	-	-	-	-	-	18	A-3a (V)	
			9 14 16	30	-	SS-17	-	0	4	79	17	-	NP	NP	NP	20	A-3a (0)	
			12 15 18	33	-	SS-18	-	-	-	-	-	-	-	-	-	17	A-3a (V)	

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 13:43 - W:\ODOT\301525 CUY-77-11.41 PID_105743\GEOTECHNICAL\TRC LOGS\G01037NS_HISTORICAL CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1226 TOTAL P.1269	42 TOTAL 85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR N-001-S-01

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:15:34 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ID004.dgn

PID: G01037ns | SFN: CUY-77-11.11 | PROJECT: CUY-77-11.11 | STATION / OFFSET: 91+21, 92' LT. | START: 9/17/01 | END: 9/17/01 | PG 2 OF 2 | N-001-S-01

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	ABAN-DONED
DENSE TO VERY DENSE, GRAY TO BROWN, **COARSE AND FINE SAND**, LITTLE SILT AND CLAY, MOIST *(continued)*	656.2	61																
		62																
		63																
		64	10 15 17	32	-	SS-19	-	-	-	-	-	-	-	-	-	20	A-3a (V)	
		65																
		66																
		67																
		68																
		69	12 17 20	37	-	SS-20	-	-	-	-	-	-	-	-	-	15	A-3a (V)	
		70																
		71																
		72																
		73																
	642.7																	
VERY DENSE, GRAY, **SILT**, LITTLE CLAY, TRACE GRAVEL, TRACE SAND, MOIST NON-COHESIVE	641.8	EOB 74	17 50/5"	-	-	SS-21	-	3	1	3	79	14	NP	NP	NP	17	A-4b (8)	

Preliminary Plans - For Reference Only

NOTES: HISTORICAL BORING LOG RETYPED FROM BORING NO. NSSS-1 COMPLETED ON 9/17/2001 FOR PROJECT NO. G01037NS [CUY-77-11.11]

ABANDONMENT METHODS, MATERIALS, QUANTITIES: NOT RECORDED

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 13:43 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\G01037NS_HISTORICAL CUY LOGS-11_8_2023.GPJ

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:16:15 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ID005.dgn

PROJECT: CUY-77-11.78
TYPE: BRIDGE
PID: G01037nn SFN: CUY-77-11.78
START: 9/14/01 END: 9/15/01

DRILLING FIRM / OPERATOR: ODOT / -
SAMPLING FIRM / LOGGER: ODOT / -
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: MOBILE B-53 R TRAILER
HAMMER: SAFETY HAMMER
CALIBRATION DATE: N/A
ENERGY RATIO (%): 60

STATION / OFFSET: 93+83, 77' RT.
ALIGNMENT: I-77
ELEVATION: 718.0 (ft) EOB: 80.0 ft.
COORD: Not Recorded

EXPLORATION ID N-003-N-01

MATERIAL DESCRIPTION AND NOTES	ELEV. 718.0	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	ABAN-DONED
AGGREGATE BASE, RAILROAD BEDDING																		
	716.0		50/0"	-	-	SS-1	-	-	-	-	-	-	-	-	-	6	UCF (V)	
STIFF TO VERY STIFF, BROWN TO GRAY, **SANDY SILT**, SOME GRAVEL, SOME CLAY, TRACE ASPHALT FRAGMENTS, RAILROAD EMBANKMENT FILL, MOIST COHESIVE			6 7 7	14	-	SS-2	-	-	-	-	-	-	-	-	-	13	A-4a (V)	
			8 9 7	16	-	SS-3	-	-	-	-	-	-	-	-	-	14	A-4a (V)	
	709.5																	
STIFF, GRAY TO BROWN, **SILT**, SOME CLAY, TRACE GRAVEL, TRACE SAND, POSSIBLY NATURAL SOIL, MOIST			2 4 5	9	-	SS-4	-	-	-	-	-	-	-	-	-	26	A-4b (V)	
			5 6 7	13	-	SS-5	-	-	-	-	-	-	-	-	-	26	A-4b (V)	
			4 6 7	13	-	SS-6	-	-	-	-	-	-	-	-	-	24	A-4b (V)	
	694.5																	
MEDIUM DENSE, BROWN, **COARSE AND FINE SAND**, LITTLE SILT, TRACE GRAVEL, MOIST			4 10 11	21	-	SS-7	-	-	-	-	-	-	-	-	-	6	A-3a (V)	
			4 7 12	19	-	SS-8	-	-	-	-	-	-	-	-	-	6	A-3a (V)	
	689.5																	
MEDIUM DENSE, GRAY, **GRAVEL WITH SAND**, LITTLE SILT AND CLAY, MOIST TO WET			9 10 10	20	-	SS-9	-	-	-	-	-	-	-	-	-	13	A-1-b (V)	
NOTE: WET AT 32.0 FEET DURING DRILLING			8 9 13	22	-	SS-10	-	44	27	18	-	11	NP	NP	NP	12	A-1-b (0)	
			5 9 11	20	-	SS-11	-	-	-	-	-	-	-	-	-	14	A-1-b (V)	
	682.0																	
VERY STIFF TO HARD, GRAY, **SILT AND CLAY**, TRACE SAND, MOIST			7 10 17	27	-	SS-12	-	-	-	-	-	-	-	-	-	23	A-6a (V)	
			8 14 18	32	-	SS-13	-	-	-	-	-	-	-	-	-	23	A-6a (V)	
			4 8 10	18	-	SS-14	-	0	0	1	-	99	35	15	20	25	A-6b (12)	
	674.5																	
DENSE, GRAY, **COARSE AND FINE SAND**, LITTLE SILT AND CLAY, TRACE GRAVEL, WET			16 18 15	33	-	SS-15	-	1	10	76	-	13	NP	NP	NP	18	A-3a (0)	
	669.5																	
MEDIUM DENSE TO DENSE, GRAY, **SILT**, LITTLE CLAY, LITTLE SAND, TRACE TO NO GRAVEL, MOIST NON-COHESIVE			4 11 19	30	-	SS-16	-	-	-	-	-	-	-	-	-	21	A-4b (V)	
			7 12 17	29	-	SS-17	-	-	-	-	-	-	-	-	-	19	A-4b (V)	
			8 15 20	35	-	SS-18	-	-	-	-	-	-	-	-	-	19	A-4b (V)	

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 13:45 - W:\ODOT\301525 CUY-77-11.41 PID_105743\GEOTECHNICAL\TRC LOGS\G01037NN_HISTORICAL CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1228 / TOTAL P.1269	44 / TOTAL 85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR N-003-N-01

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:17:01 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ID006.dgn

PID: G01037nn | SFN: CUY-77-11.78 | PROJECT: CUY-77-11.78 | STATION / OFFSET: 93+83, 77' RT. | START: 9/14/01 | END: 9/15/01 | PG 2 OF 2 | N-003-N-01

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	ABAN-DONED
MEDIUM DENSE TO DENSE, GRAY, **SILT**, LITTLE CLAY, LITTLE SAND, TRACE TO NO GRAVEL, MOIST NON-COHESIVE *(continued)*	658.0	61																
		62																
		63																
		64	10 17 22	39	-	SS-19	-	-	-	-	-	-	-	-	-	20	A-4b (V)	
		65																
		66																
		67																
		68																
		69	5 12 14	26	-	SS-20	-	-	-	-	-	-	-	-	-	21	A-4b (V)	
		70																
		71																
		72																
		73																
VERY DENSE		74	17 29 46	75	-	SS-21	-	0	0	14	69	17	NP	NP	NP	18	A-4b (8)	
		75																
		76																
		77																
		78																
		79	15 22 39	61	-	SS-22	-	-	-	-	-	-	-	-	-	21	A-4b (V)	
	638.0	EOB 80																

Preliminary Plans - For Reference Only

NOTES: HISTORICAL BORING LOG RETYPED FROM BORING NO. NSSN-3 COMPLETED ON 9/15/2001 FOR PROJECT NO. G01037NN [CUY-77-11.78 (N&SS NORTH BRIDGE)]

ABANDONMENT METHODS, MATERIALS, QUANTITIES: NOT RECORDED

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 13:45 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\G01037NN_HISTORICAL CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1229 / TOTAL P.1269	45 / TOTAL 85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR N-003-N-01 (CONT.)

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:17:45 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ID007.dgn

PROJECT: CUY-77-11.69
TYPE: BRIDGE
PID: G01037 SFN: CUY-77-11.69
START: 9/24/02 END: 9/24/02

DRILLING FIRM / OPERATOR: ODOT / -
SAMPLING FIRM / LOGGER: ODOT / -
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: MOBILE B-53 R TRAILER
HAMMER: SAFETY HAMMER
CALIBRATION DATE: N/A
ENERGY RATIO (%): 60

STATION / OFFSET: 89+50, 64' LT.
ALIGNMENT: I-77
ELEVATION: 718.9 (ft) EOB: 75.0 ft.
COORD: Not Recorded

EXPLORATION ID: B-001-0-02

MATERIAL DESCRIPTION AND NOTES	ELEV. 718.9	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	ABAN-DONED
AGGREGATE BASE, RAILROAD BEDDING	716.9	1																
DENSE TO VERY DENSE, BROWN, **SANDY SILT**, LITTLE ROCK FRAGMENTS, SOME CLAY, RAILROAD EMBANKMENT FILL, MOIST		2	10 20 27	47	-	SS-1	-	-	-	-	-	-	-	-	-	6		
		3																
		4	27 31 34	65	-	SS-2	-	6	11	46	13	24	NP	NP	NP	6	A-4a (0)	
		5																
		6																
		7	17 22 24	46	-	SS-3	-	-	-	-	-	-	-	-	-	7	A-4a (V)	
	710.9	8																
VERY STIFF TO HARD, BROWN, **SANDY SILT**, SOME CLAY, TRACE ROCK/COAL FRAGMENTS, RAILROAD EMBANKMENT FILL, MOIST		9	7 12 17	29	-	SS-4	-	-	-	-	-	-	-	-	-	19	A-4a (V)	
		10																
		11																
		12																
		13																
		14	17 34 22	56	-	SS-5	-	-	-	-	-	-	-	-	-	15	A-4a (V)	
		15																
	702.4	16																
MEDIUM DENSE, GRAY AND BROWN, **COARSE AND FINE SAND**, LITTLE SILT, NATURAL SOIL, MOIST		17																
		18																
	698.9	19	3 6 8	14	-	SS-6	-	-	-	-	-	-	-	-	-	9	A-3a (V)	
VERY STIFF, GRAY, **SILT AND CLAY**, TRACE GRAVEL, TRACE SAND, MOIST		20																
		21																
		22																
		23																
		24	5 6 10	16	-	SS-7	-	1	1	6	- 92 -		33	14	19	23	A-6b (12)	
		25																
		26																
NOTE: GROUNDWATER MEASURED AT 26.0 FEET UPON COMPLETION OF DRILLING AFTER BORE HOLE HAD CAVED-IN		27	8 7 9	16	-	SS-8	-	-	-	-	-	-	-	-	-	23	A-6a (V)	
	690.9	28																
LOOSE TO MEDIUM DENSE, BROWN, **FINE SAND**, TRACE SILT, MOIST		29	7 5 5	10	-	SS-9	-	-	-	-	-	-	-	-	-	5	A-3 (V)	
		30																
		31																
		32	6 7 5	12	-	SS-10	-	2	40	52	- 6 -		NP	NP	NP	15	A-3 (0)	
	685.9	33																
VERY STIFF, GRAY, **SANDY SILT**, AND CLAY, MOIST		34	6 8 10	18	-	SS-11	-	-	-	-	-	-	-	-	-	24	A-4a (V)	
		35																
		36																
		37	8 6 12	18	-	SS-12	-	0	0	1	40	59	28	9	19	23	A-6b (12)	
	680.4	38																
MEDIUM DENSE, GRAY, **GRAVEL WITH SAND**, TRACE SILT, WET		39	10 6 10	16	-	SS-13	-	30	49	18	- 3 -		NP	NP	NP	15	A-1-b (0)	
NOTE: GROUNDWATER ENCOUNTERED AT 38.5 FEET DURING DRILLING	678.9	40																
VERY STIFF, GRAY, **SILT AND CLAY**, TRACE SAND, MOIST		41																
		42	12 13 12	25	-	SS-14	-	0	1	1	- 98 -		30	11	19	22	A-6b (12)	
	675.9	43																
DENSE, GRAY, **SILT**, SOME SAND, LITTLE CLAY, WET		44	14 18 18	36	-	SS-15	-	-	-	-	-	-	-	-	-	21	A-4b (V)	
		45																
		46																
	671.9	47																
DENSE TO VERY DENSE, GRAY, **FINE SAND**, TRACE SILT, TRACE GRAVEL, WET		48																
		49	12 14 17	31	-	SS-16	-	1	12	77	- 10 -		NP	NP	NP	19	A-3 (0)	
		50																
		51																
		52																
		53																
		54	24 37 42	79	-	SS-17	-	-	-	-	-	-	-	-	-	18	A-3 (V)	
		55																
		56																
NOTE: APPROXIMATELY 1.5 FEET OF HEAVING SAND UP TO 58.0 FEET		57																
	660.9	58																
DENSE TO VERY DENSE, GRAY, **COARSE AND FINE SAND**, LITTLE SILT, TRACE TO NO GRAVEL, WET		59	17 32 37	69	-	SS-18	-	4	4	78	- 14 -		NP	NP	NP	20	A-3a (0)	

W 680.4

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 13:33 - W:\ODOT\301525 CUY-77-11.41 PID_105743\GEOTECHNICAL\TRC LOGS\G01037 HISTORICAL CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1230 TOTAL P.1269	46 TOTAL 85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-001-0-02

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:18:28 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ID008.dgn

PID: G01037 | SFN: CUY-77-11.69 | PROJECT: CUY-77-11.69 | STATION / OFFSET: 89+50, 64' LT. | START: 9/24/02 | END: 9/24/02 | PG 2 OF 2 | B-001-0-02

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	ABAN-DONED
DENSE TO VERY DENSE, GRAY, **COARSE AND FINE SAND**, LITTLE SILT, TRACE TO NO GRAVEL, WET *(continued)*	658.9	61																
		62																
		63																
		64	10 17 25	42	-	SS-19	-	-	-	-	-	-	-	-	-	19	A-3a (V)	
		65																
		66																
		67																
		68																
		69	15 18 18	36	-	SS-20	-	-	-	-	-	-	-	-	-	18	A-3a (V)	
		70																
		71																
		72																
		73																
		74	21 18 20	38	-	SS-21	-	0	4	84	-	12 -	NP	NP	NP	19	A-3a (0)	
	643.9	75 EOB																

NOTES: HISTORICAL BORING LOG RETYPED FROM BORING NO. B-1 COMPLETED ON 9/24/2002 FOR PROJECT NO. G01037 [BRIDGE NO. CUY-77-11.69]

ABANDONMENT METHODS, MATERIALS, QUANTITIES: NOT RECORDED

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 13:33 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\G01037_HISTORICAL CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1231 TOTAL P.1269	47 TOTAL 85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-001-0-02 (CONT.)

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:19:13 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ID009.dgn

PROJECT: CUY-77-11.69
TYPE: BRIDGE
PID: G01037 SFN: CUY-77-11.69
START: 9/23/02 END: 9/23/02

DRILLING FIRM / OPERATOR: ODOT / -
SAMPLING FIRM / LOGGER: ODOT / -
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: MOBILE B-53 R TRAILER
HAMMER: SAFETY HAMMER
CALIBRATION DATE: N/A
ENERGY RATIO (%): 60

STATION / OFFSET: 89+62, 72' RT.
ALIGNMENT: I-77
ELEVATION: 720.1 (ft) EOB: 74.4 ft.
COORD: Not Recorded

EXPLORATION ID: B-002-0-02

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	ABAN-DONED
RAILROAD BEDDING CRUSHED AGGREGATE	720.1 719.1																	
MEDIUM DENSE, BROWN, **SANDY SILT**, LITTLE ROCK FRAGMENTS, LITTLE TO TRACE CLAY, EMBANKMENT FILL, MOIST NON-COHESIVE	715.4		5 10 11	21	-	SS-1	-	-	-	-	-	-	-	-	-	7	A-4a (V)	
			8 13	-	-	2A	-	-	-	-	-	-	-	-	-	10	A-4a (V)	
			16		-	2B	-	-	-	-	-	-	-	-	-	11	A-4a (V)	
VERY STIFF, BROWN, **SANDY SILT**, LITTLE ROCK FRAGMENTS, LITTLE TO SOME CLAY, EMBANKMENT FILL, MOIST COHESIVE	713.4		3 10 13	23	-	SS-3	-	-	-	-	-	-	-	-	-	12	A-4a (V)	
VERY STIFF, GRAY AND BROWN, **SILT AND CLAY**, TRACE SAND, EMBANKMENT FILL, MOIST	706.0		2	-	-	4A	-	0	1	2	97	-	36	11	25	23	A-6b (14)	
			8 10	18	-	4B	-	-	-	-	-	-	-	-	-	20	A-6a (V)	
LOOSE TO MEDIUM DENSE, BROWN, **FINE SAND**, TRACE SILT, POSSIBLE NATURAL SOIL, MOIST	696.2		5 8 9	17	-	SS-5	-	-	-	-	-	-	-	-	-	5	A-3a (V)	
			4 5 5	10	-	SS-6	-	-	-	-	-	-	-	-	-	5	A-3a (V)	
MEDIUM STIFF, GRAY, **SILT AND CLAY**, TRACE SAND, MOIST	692.3	▼	2 2 4	6	-	SS-7	-	0	0	2	98	-	35	13	22	26	A-6b (13)	
			1 2 4	6	-	SS-8	-	-	-	-	-	-	-	-	-	25	A-6a (V)	
MEDIUM DENSE, GRAY, **GRAVEL WITH SAND**, LITTLE SILT AND CLAY, MOIST	685.1		11 14 9	23	-	SS-9	-	19	35	30	16	-	NP	NP	NP	6	A-1-b (0)	
			8 9 11	20	-	SS-10	-	-	-	-	-	-	-	-	-	7	A-1-b (V)	
			14 11 10	21	-	SS-11	-	40	39	13	8	-	NP	NP	NP	14	A-1-b (0)	
VERY STIFF, GRAY, **SILT AND CLAY**, TRACE SAND, MOIST COHESIVE	681.1		8 7 10	17	-	SS-12	-	0	1	1	98	-	30	11	19	21	A-6b (12)	
VERY STIFF, GRAY, **SILT**, AND CLAY, TRACE SAND, MOIST COHESIVE	677.1	W 677.1	8 9 11	20	-	SS-13	-	-	-	-	-	-	-	-	-	22	A-4b (V)	
			9 14 16	30	-	SS-14	-	0	1	1	50	48	28	7	21	22	A-6b (12)	
MEDIUM DENSE TO DENSE, GRAY, **COARSE AND FINE SAND**, LITTLE SILT, WET NOTE: WET AT 43.0 FEET DURING DRILLING	660.1		13 21 29	50	-	SS-15	-	-	-	-	-	-	-	-	-	17	A-3a (V)	
			9 16 17	33	-	SS-16	-	-	-	-	-	-	-	-	-	19	A-3a (V)	
			12 17 16	33	-	SS-17	-	0	1	82	17	-	NP	NP	NP	20	A-3a (0)	
			10 17 18	35	-	SS-18	-	-	-	-	-	-	-	-	-	19	A-3a (V)	

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 13:34 - W:\ODOT\301525 CUY-77-11.41 PID_105743\GEOTECHNICAL\TRC LOGS\G01037 HISTORICAL CUY LOGS-11_8_2023.GPJ

SHEET	TOTAL	SUBSET	TOTAL	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1232	P.1269	48	85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-002-0-02

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:20:01 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ID010.dgn

PID: G01037 | SFN: CUY-77-11.69 | PROJECT: CUY-77-11.69 | STATION / OFFSET: 89+62, 72' RT. | START: 9/23/02 | END: 9/23/02 | PG 2 OF 2 | B-002-0-02

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	ABAN-DONED
VERY DENSE, GRAY, **FINE SAND**, TRACE SILT, TRACE GRAVEL, WET	660.1	61																
		62																
		63																
		64	14 24 31	55	-	SS-19	-	2	19	69	- 10 -		NP	NP	NP	15	A-3 (0)	
	654.1	65																
VERY DENSE, GRAY, **COARSE AND FINE SAND**, LITTLE SILT, WET		66																
		67																
		68																
		69	27 37 43	80	-	SS-20	-	-	-	-	-	-	-	-	-	12	A-3a (V)	
		70																
		71																
		72																
		73																
	645.7	74	15 50/5"	-	-	SS-21	-	0	3	78	- 19 -		NP	NP	NP	16	A-3a (0)	
		EOB																

Preliminary Plans - For Reference Only

NOTES: HISTORICAL BORING LOG RETYPED FROM BORING NO. B-2 COMPLETED ON 9/23/2002 FOR PROJECT NO. G01037 [BRIDGE NO. CUY-77-11.69]

ABANDONMENT METHODS, MATERIALS, QUANTITIES: NOT RECORDED

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 13:34 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\G01037_HISTORICAL CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1233 TOTAL P.1269	49 TOTAL 85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-002-0-02 (CONT.)

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:20:42 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ID011.dgn

PROJECT: CUY-77-11.2
TYPE: BRIDGE
PID: 22891 SFN: CUY-77-13.75
START: 12/7/11 END: 12/8/11

DRILLING FIRM / OPERATOR: OTB / D. HEPNER
SAMPLING FIRM / LOGGER: S&ME / E. KODRICH
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: OTB TRUCK 2800
HAMMER: CME AUTOMATIC
CALIBRATION DATE: 10/24/11
ENERGY RATIO (%): 82

STATION / OFFSET: 174+35, 23' LT.
ALIGNMENT: PERSHING AVENUE
ELEVATION: 679.8 (ft) EOB: 125.0 ft.
LAT / LONG: 41.470862, -81.660168

EXPLORATION ID B-002-0-11

MATERIAL DESCRIPTION AND NOTES	ELEV. 679.8	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	ABAN-DONED
BRIDGE DECK - 9 INCHES	679.0																	
AIR	671.1																	
SLOPE PROTECTION - 9 INCHES	670.3																	
LOOSE, BROWN, **COARSE AND FINE SAND**, LITTLE SILT, TRACE CLAY, TRACE FINE GRAVEL, FILL, MOIST	669.1		1	-	-	1A	-	-	-	-	-	-	-	-	-	13	A-3a (V)	
FILL SLAG AND CONCRETE RUBBLE	666.3		2 6	11	-	1B	-	-	-	-	-	-	-	-	-	-	UCF (V)	
LOOSE, DARK BROWN, **COARSE AND FINE SAND**, LT FINE TO COARSE GRAVEL, TR SILT, TR CLAY, POSSIBLE FILL, MOIST	662.8		3 2 2	5	-	SS-2	-	-	-	-	-	-	-	-	-	9	A-3a (V)	
VERY LOOSE, BROWN, **COARSE AND FINE SAND**, SOME SILT, TRACE CLAY, MOIST	660.8		3	-	-	3A	-	-	-	-	-	-	-	-	-	18	A-3a (V)	
LOOSE, BROWN, **SILT**, LITTLE FINE TO COARSE SAND, TRACE CLAY, WET CONTAINS FEW VERY STIFF CLAYEY SILT SEAMS NOTE: SEEPAGE ENCOUNTERED AT 19.3 FT NOTE: GROUNDWATER ENCOUNTERED AT 22.5 FT DURING DRILLING	656.0	W 657.3	4 3	10	-	3B	-	0	1	11	80	8	NP	NP	NP	28	A-4b (8)	
LOOSE, GRAY, **SILT**, LT FINE SAND, LT CLAY, TR C/ SAND, TR F/ GRAVEL, WET CONTAINS FEW STIFF SILTY CLAY SEAMS	649.3		3 2 2	5	-	4B	-	-	-	-	-	-	-	-	-	26	A-4b (V)	
VERY STIFF TO HARD, GRAY, **SILT AND CLAY**, LITTLE FINE TO COARSE SAND, TRACE FINE GRAVEL, DAMP TO MOIST	643.8		2 3 3	8	-	SS-5	-	1	1	19	62	17	18	18	NP	25	A-4b (8)	
NOTE: USED 3-1/4" HSA TO A DEPTH OF 35.5 FT			3 3 3	8	-	SS-6	-	-	-	-	-	-	-	-	-	23	A-4b (V)	
			3 5 8	18	-	SS-7	2.0-4.2	-	-	-	-	-	-	-	-	20	A-6a (V)	
					-	ST-8	2.0-2.5	2	4	9	46	39	28	17	11	19	A-6a (8)	
STIFF TO VERY STIFF, GRAY, **SILT**, SM TO AND CLAY, LT F/C SAND, TR F/ GRAVEL, DAMP TO MOIST CONTAINS FEW HARD ZONES NOTE: MUD ROTARY DRILLING USING A 3-1/8" TRICONE ROLLER-BIT WAS USED FROM 35.5 FT TO 125.0 FT	627.8		4 5 6	15	-	SS-9	1.0-2.0	4	8	8	56	24	23	16	7	17	A-4b (8)	
			3 5 8	18	-	SS-10	1.3-2.0	-	-	-	-	-	-	-	-	21	A-4b (V)	
			4 9 8	23	-	SS-11	1.0-2.5	0	8	3	51	38	27	17	10	20	A-4b (8)	
			4 6 8	19	-	SS-12	1.2-2.8	-	-	-	-	-	-	-	-	20	A-4b (V)	
			4 8 13	29	-	SS-13	2.1-4.2	-	-	-	-	-	-	-	-	19	A-4b (V)	
VERY DENSE, GRAY, **SILT**, LT CLAY, LT TO TR F/C SAND, TR FINE GRAVEL, MOIST	623.3		11 25 36	83	-	SS-14	-	1	1	16	62	20	19	17	2	15	A-4b (8)	
VERY DENSE, GRAY, **COARSE AND FINE SAND**, LITTLE SILT, TRACE CLAY, WET			18 20 26	63	-	SS-15	-	-	-	-	-	-	-	-	-	20	A-3a (V)	

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 13:40 - W:\ODOT\301525 - CUY-77-11.41 - PID_105743\GEOTECHNICAL\TRC LOGS\22891_HISTORICAL CUY LOGS-11_8_2023.GPJ

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:21:26 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ID012.dgn

PID: 22891 | SFN: CUY-77-11.21 | PROJECT: CUY-77-11.2 | STATION / OFFSET: 174+35, 23' LT. | START: 12/7/11 | END: 12/8/11 | PG 2 OF 3 | B-002-0-11

MATERIAL DESCRIPTION AND NOTES	ELEV. 619.8	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	ABAN-DONED
	618.8	61																
VERY DENSE, BROWNISH-GRAY, **SILT**, LITTLE CLAY, TRACE TO LITTLE FINE TO COARSE SAND, MOIST TO WET CONTAINS FEW HARD CLAYEY SILT SEAMS		62																
		63																
		64	17 25 24	67	-	SS-16	-	-	-	-	-	-	-	-	-	16	A-4b (V)	
		65																
		66																
		67																
		68																
		69	14 22 32	74	-	SS-17	-	0	1	10	76	13	20	21	NP	20	A-4b (8)	
		70																
		71																
		72																
		73																
		74	14 18 28	63	-	SS-18	-	0	1	4	78	17	22	20	2	16	A-4b (8)	
		75																
		76																
	602.8	77																
DENSE, BROWNISH-GRAY, **SILT**, SOME CLAY, LITTLE FINE TO COARSE SAND, MOIST TO WET		78																
		79	11 15 17	-	-	19A	-	-	-	-	-	-	-	-	-	24	A-4b (V)	
	600.3	80		44	-	19B	3.2-4.2	-	-	-	-	-	-	-	-	22	A-4b (V)	
VERY STIFF TO HARD, BROWN, **SILT AND CLAY**, TRACE FINE TO COARSE SAND, MOIST CONTAINS FEW SILT LENSES		81																
		82																
		83																
		84	8 13 16	-	-	20A	4.5+	0	1	1	56	42	29	17	12	22	A-6a (9)	
	595.1	85		40	-	20B	3.7-4.2	-	-	-	-	-	-	-	-	22	A-6a (V)	
VERY STIFF TO HARD, GRAYISH-BROWN, **SILT AND CLAY**, TRACE FINE TO COARSE SAND, DAMP TO MOIST CONTAINS FEW SILT AND FINE SAND LENSES AND ZONES OF FINE TO COARSE GRAVEL		86																
		87																
		88																
		89	7 12 14	36	-	SS-21	2.4-4.5+	17	1	1	46	35	32	20	12	19	A-6a (V)	
		90																
		91																
		92																
		93																
		94	6 11 15	36	-	SS-22	2.6-4.5+	-	-	-	-	-	-	-	-	22	A-6a (V)	
		95																
		96																
		97																
		98																
		99	6 10 15	34	-	SS-23	2.0-4.5+	-	-	-	-	-	-	-	-	22	A-6a (V)	
		100																
		101																
		102																
		103																
		104	7 11 16	37	-	SS-24	2.0-4.5+	-	-	-	-	-	-	-	-	22	A-6a (V)	
		105																
		106																
		107																
		108																
		109	7 11 16	37	-	SS-25	2.6-4.5+	0	1	1	58	40	30	19	11	22	A-6a (8)	
NOTE: BOREHOLE CAVED IN AT 110.0 FT		110																
		111																
		112																
		113																
		114	6 8 13	29	-	SS-26	2.5-4.0	-	-	-	-	-	-	-	-	18	A-6a (V)	
		115																
		116																
	562.8	117																
VERY STIFF TO HARD, GRAY, **SILTY CLAY**, TRACE FINE TO COARSE SAND, TRACE FINE GRAVEL, DAMP TO MOIST		118																
		119	8 12 17	40	-	SS-27	3.6-4.5+	-	-	-	-	-	-	-	-	16	A-6b (V)	
		120																
		121																

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 13:40 - W:\ODOT\301525 CUY-77-11.41 PID_105743\GEOTECHNICAL\TRC LOGS\22891_HISTORICAL CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1235 TOTAL P.1269	51 TOTAL 85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-002-0-11 (CONT.)

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:22:07 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ID013.dgn

PID: 22891 | SFN: CUY-77-11.21 | PROJECT: CUY-77-11.2 | STATION / OFFSET: 174+35, 23' LT. | START: 12/7/11 | END: 12/8/11 | PG 3 OF 3 | B-002-0-11

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	ABAN-DONED
VERY STIFF TO HARD, GRAY, **SILTY CLAY**, TRACE FINE TO COARSE SAND, TRACE FINE GRAVEL, DAMP TO MOIST *(continued)*	557.9	123																
		124	6 8 11	26	-	SS-28	2.0-4.5+	1	2	3	35	59	33	17	16	23	A-6b (10)	
	554.8	EOB 125																

Preliminary Plans - For Reference Only

NOTES: HISTORICAL BORING LOG RETYPED FROM BORING NO. B-002-0-11 COMPLETED ON 12/8/2011 FOR PROJECT NO. 22891 [CUY-77-11.69]

ABANDONMENT METHODS, MATERIALS, QUANTITIES: TREMIED 70 GAL. CEMENT; PLACED 1.5 BAGS QUICKCRETE

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 13:40 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\22891_HISTORICAL CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1236 TOTAL P.1269	52 TOTAL 85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-002-0-11 (CONT.)

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:22:47 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ID014.dgn

PROJECT: CUY-77-13.31
TYPE: BRIDGE
PID: 85188 SFN: CUY-77-13.31
START: 8/14/12 END: 8/14/12

DRILLING FIRM / OPERATOR: B&P / R. WEBB
SAMPLING FIRM / LOGGER: B&P / R. BLASKO
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: MOBILE B57 ORV
HAMMER: DIEDRICH AUTOMATIC
CALIBRATION DATE: 6/30/11
ENERGY RATIO (%): 90*

STATION / OFFSET: 174+75, 45' LT.
ALIGNMENT: I-77
ELEVATION: 682.2 (ft) EOB: 75.0 ft.
LAT / LONG: 41.464773, -81.657366

EXPLORATION ID B-004-0-12
PAGE 1 OF 2

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	ABAN-DONED
ASPHALT	682.2																	
	681.0																	
MEDIUM DENSE, BROWN, **COARSE AND FINE SAND**, SOME SILT, LITTLE CLAY, TRACE GRAVEL, FILL, MOIST CONTAINS BRICK FRAGMENTS	679.2		12 3 4	11	-	SS-1	-	-	-	-	-	-	-	-	-	13	A-3a (V)	
MEDIUM DENSE, BROWN, **SANDY SILT**, LITTLE CLAY, TRACE GRAVEL, FILL, DAMP	676.7		4 4 5	14	-	SS-2	3.5-3.7	6	21	37	18	18	NP	NP	NP	10	A-4a (0)	
STIFF, BROWN AND GRAY, **CLAY**, AND SILT, LITTLE SAND, TRACE GRAVEL, FILL, MOIST	674.2		5 3 3	9	-	SS-3	1.5-1.7	2	7	13	36	42	42	24	18	31	A-7-6 (12)	
STIFF TO VERY STIFF, BROWN MOTTLED WITH GRAY AND DARK BROWN, **SILTY CLAY**, TRACE TO LITTLE SAND, TRACE GRAVEL, MOIST	669.2		2 4 7	17	-	SS-4	1.3-3.9	-	-	-	-	-	-	-	-	22	A-6b (V)	
			4 6 9	23	-	SS-5	2.9-4.3	-	-	-	-	-	-	-	-	17	A-6b (V)	
LOOSE TO MEDIUM DENSE, BROWN, **COARSE AND FINE SAND**, LT TO SM SILT, TR TO LT CLAY, TR GRAVEL, MOIST TO WET			3 3 3	9	-	SS-6	-	1	15	55	22	7	NP	NP	NP	13	A-3a (0)	
			3 3 4	11	-	SS-7	-	-	-	-	-	-	-	-	-	8	A-3a (V)	
			3 2 3	8	-	SS-8	-	-	-	-	-	-	-	-	-	10	A-3a (V)	
			4 3 5	12	-	SS-9	-	-	-	-	-	-	-	-	-	14	A-3a (V)	
			5 5 5	15	-	SS-10	-	0	1	73	14	12	NP	NP	NP	18	A-3a (0)	
CHANGES TO ORANGE-BROWN	654.2		4 6 7	20	-	SS-11	-	-	-	-	-	-	-	-	-	21	A-3a (V)	
MEDIUM DENSE, BROWN TO ORANGE-BROWN, **FINE SAND**, LITTLE COARSE SAND, TRACE SILT, TRACE CLAY, DAMP	650.5		4 5 6	17	-	SS-12	-	0	17	73	5	5	NP	NP	NP	9	A-3 (0)	
DENSE, BROWN WITH ORANGE-BROWN AND DARK GRAY, **COARSE AND FINE SAND**, LITTLE SILT, TRACE CLAY, TRACE GRAVEL, WET	640.5	W 648.7	6 2 1	5	-	SS-13	-	2	13	63	12	10	NP	NP	NP	27	A-3a (0)	
			7 10 12	33	-	SS-14	-	0	0	77	18	5	NP	NP	NP	23	A-3a (0)	
DENSE TO VERY DENSE, GRAY, **SILT**, SOME TO TRACE CLAY, LITTLE TO TRACE SAND, MOIST TO WET			20 17 17	51	-	SS-15	-	0	0	20	66	14	NP	NP	NP	21	A-4b (8)	
			9 10 14	36	-	SS-16	-	0	0	5	71	24	22	17	5	17	A-4b (8)	
			8 12 16	42	-	SS-17	-	-	-	-	-	-	-	-	-	16	A-4b (V)	
SS-18 CHANGES TO "AND SAND"; CONTAINS FEW DECAYED ROOTS			20 28 29	86	-	SS-18	-	0	0	38	53	9	NP	NP	NP	20	A-4b (5)	

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 13:36 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\85188_HISTORICAL CUY LOGS-11_8_2023.GPJ

SHEET	TOTAL	SUBSET	TOTAL	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1237	P.1269	53	85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-004-0-12

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:23:33 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ID015.dgn

PID: 85188 | SFN: CUY-77-13.31 | PROJECT: CUY-77-13.31 | STATION / OFFSET: 174+75, 45' LT. | START: 8/14/12 | END: 8/14/12 | PG 2 OF 2 | B-004-0-12

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	ABAN-DONED
DENSE TO VERY DENSE, GRAY, **SILT**, SOME TO TRACE CLAY, LITTLE TO TRACE SAND, MOIST TO WET *(continued)*	622.2	61																
		62																
		63																
		64	40 50 5	83	-	SS-19	-	-	-	-	-	-	-	-	-	16	A-4b (V)	
		65																
		66																
		67																
		68																
		69	5 11 12	35	-	SS-20	-	-	-	-	-	-	-	-	-	18	A-1-a (V)	
		70																
		71																
		72																
		73																
		74	6 10 12	33	-	SS-21	2.2-3.0	0	0	1	52	47	28	18	10	24	A-4b (8)	
	607.2	75 EOB																

Preliminary Plans - For Reference Only

NOTES: HISTORICAL BORING LOG RETYPED FROM BORING NO. B-004-0-12 COMPLETED ON 8/14/2012 FOR PROJECT NO. 85188 [BRIDGE NO. CUY-77-11.69]

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; PUMPED 2 BAGS BENTONITE GROUT; PLACED 2 BAGS QUICKCRETE

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 13:36 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\85188_HISTORICAL CUY LOGS-11_8_2023.GPJ

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:24:13 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ID016.dgn

PROJECT: CUY-77-13.31
TYPE: BRIDGE REPLACEMENT
PID: 85188 BR ID:
START: 8/7/12 END: 8/7/12

DRILLING FIRM / OPERATOR: B&P / R.WEBB
SAMPLING FIRM / LOGGER: B&P / R.BLASKO
DRILLING METHOD: 3.25" HSA / TRICONE
SAMPLING METHOD: SPT

DRILL RIG: MOBILE B57 ORV
HAMMER: DIEDRICH AUTOMATIC
CALIBRATION DATE: 6/30/11
ENERGY RATIO (%): 95.1

STATION / OFFSET: 175+50, 61.0 RT
ALIGNMENT: IR 77
ELEVATION: 670.2 (MSL), EOB: 110.0 ft.
COORD: 2199534.825 N, 656305.845 E

EXPLORATION ID B-005-0-12

MATERIAL DESCRIPTION AND NOTES	ELEV. 670.2	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
2.0", **ASPHALT**	670.0																	
10.0", **CONCRETE**	669.2																	
DENSE, BROWN, **SANDY SILT**, LITTLE CLAY, TRACE GRAVEL, CONTAINS BRICK AND CONCRETE FRAGMENTS AND FEW ROOTS, DRY **(FILL)**	667.2		15 15 13	44	89	SS-1	-	2	20	41	19	18	NP	NP	NP	5	A-4a (0)	
DENSE, BROWN, **COARSE AND FINE SAND** TRACE TO SOME SILT, TRACE CLAY, TRACE GRAVEL, DRY TO DAMP			8 10 11	33	83	SS-2	-	1	16	51	22	10	NP	NP	NP	5	A-3a (0)	
			12 10 10	32	94	SS-3	-	-	-	-	-	-	-	-	-	3	A-3a (V)	
			7 10 11	33	100	SS-4	-	-	-	-	-	-	-	-	-	4	A-3a (V)	
			9 11 13	38	100	SS-5	-	1	23	65	6	5	NP	NP	NP	4	A-3a (0)	
			9 12 8	32	100	SS-6	-	-	-	-	-	-	-	-	-	5	A-3a (V)	
			8 10 9	30	100	SS-7	-	-	-	-	-	-	-	-	-	6	A-3a (V)	
@18.5'; SS-8 TO SS-10 CHANGES TO MEDIUM DENSE, BROWN AND DARK BROWN, WET			6 8 7	24	94	SS-8	-	-	-	-	-	-	-	-	-	21	A-3a (V)	
		W	2 5 7	19	100	SS-9	-	0	0	77	18	5	NP	NP	NP	29	A-3a (0)	
			5 11 18	46	100	SS-10	-	0	1	80	14	5	NP	NP	NP	22	A-3a (0)	
	644.7																	
DENSE TO MEDIUM DENSE, GRAY, **SANDY SILT**, TRACE CLAY, TRACE GRAVEL, WET			8 12 14	41	100	SS-11	-	-	-	-	-	-	-	-	-	21	A-4a (V)	
			3 5 6	17	100	SS-12	-	-	-	-	-	-	-	-	-	21	A-4a (V)	
			6 10 16	41	100	SS-13	-	-	-	-	-	-	20	15	5	-	A-4b (V)	
@38.5'; CHANGES TO HARD			11 10 13	36	83	SS-14	4.5+	0	0	1	73	26	NP	NP	NP	19	A-4b (8)	
	628.5																	
STIFF TO VERY STIFF, GRAY, **SILT AND CLAY**, TRACE SAND, MOIST			3 6 6	19	94	SS-15	2.50	0	0	1	59	40	30	17	13	27	A-6a (9)	
			5 7 10	27	100	SS-16	3.50	-	-	-	-	-	-	-	-	27	A-6a (V)	
			6 10 11	33	94	SS-17	1.75 - 2.5	-	-	-	-	-	-	-	-	25	A-6a (V)	
@58.5'; SS-18 SILTY LENSES			5 8 9	27	94	SS-18	2.0 - 2.5	0	0	1	52	47	32	18	14	24	A-6a (10)	

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT GDT - 10/2/13 10:33 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-77-13.31 (ODOT)\BRIDGE BORINGS\CUY-77-13.31.GPJ

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-005-0-12

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:24:57 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ID017.dgn

PID: 85188 | BR ID: | PROJECT: CUY-77-13.31 | STATION / OFFSET: 175+50, 61.0 RT | START: 8/7/12 | END: 8/7/12 | PG 2 OF 2 | B-005-0-12

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
STIFF TO VERY STIFF, GRAY, **SILT AND CLAY**, TRACE SAND, MOIST *(continued)*	610.2	61																
		62																
		63																
		64	6 6 8	22	100	SS-19	1.75	-	-	-	-	-	-	-	-	26	A-6a (V)	
		65																
		66																
		67																
		68																
		69	5 8 11	30	100	SS-20	3.8 - 4.25	-	-	-	-	-	-	-	-	20	A-6a (V)	
		70																
		71																
		72																
		73																
		74	5 7 10	27	100	SS-21	3.25 - 3.5	-	-	-	-	-	-	-	-	21	A-6a (V)	
		75																
		76																
		77																
		78																
@78.5'; SS-22 GRAY WITH BROWN MOTTLES		79	4 5 6	17	100	SS-22	1.25 - 1.5	0	0	0	44	56	30	17	13	24	A-6a (9)	
		80																
		81																
		82																
		83																
@83.5'; SS-23 TO SS-24 CONTAINS SILT LENSES		84	5 8 12	32	94	SS-23	3.25 - 2.50	-	-	-	-	-	-	-	-	23	A-6a (V)	
		85																
		86																
		87																
		88																
		89	7 9 12	33	100	SS-24	2.0 - 2.75	-	-	-	-	-	-	-	-	22	A-6a (V)	
		90																
		91																
		92																
		93																
		94	10 12 18	48	94	SS-25	3.25 - 4.0	0	1	2	39	58	30	17	13	20	A-6a (9)	
		95																
		96																
	573.5	97																
STIFF TO VERY STIFF, GRAY MOTTLED WITH RED-BROWN, **SILTY CLAY**, LITTLE SAND, TRACE SAND, MOIST		98																
		99	7 8 11	30	100	SS-26	2.00	-	-	-	-	-	-	-	-	18	A-6b (V)	
		100																
		101																
		102																
		103																
		104	5 7 10	27	94	SS-27	1.75 - 2.6	-	-	-	-	-	-	-	-	24	A-6b (V)	
		105																
		106																
		107																
		108																
	560.2	109	6 7 10	27	100	SS-28	1.75	-	-	-	-	-	-	-	-	24	A-6b (V)	
		EOB 110																

NOTES: GROUNDWATER ENCOUNTERED AT 21.0' DURING DRILLING. CAVE DEPTH 25.0'. SWITCH TO TRICONE AT 35.0'.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: PUMPED 3 BAGS BENTONITE GROUT; PLACED 1 BAG QUICKCRETE

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 10/2/13 10:33 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-77-13.31 (ODOT)\BRIDGE BORINGS\CUY-77-13.31.GPJ

SHEET	TOTAL	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1240	P.1269	56 / 85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-005-0-12 (CONT.)

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:26:08 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ID018.dgn

PROJECT: CUY-77-13.31
TYPE: BRIDGE
PID: 85188 SFN: CUY-77-13.31
START: 8/1/12 END: 8/2/12

DRILLING FIRM / OPERATOR: B&P / R. WEBB
SAMPLING FIRM / LOGGER: B&P / R. BLASKO
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: MOBILE B57 ORV
HAMMER: DIEDRICH AUTOMATIC
CALIBRATION DATE: 6/30/11
ENERGY RATIO (%): 90*

STATION / OFFSET: 175+71, 65' LT.
ALIGNMENT: I-77
ELEVATION: 665.1 (ft) EOB: 110.0 ft.
LAT / LONG: 41.465018, -81.657489

EXPLORATION ID B-006-0-12
PAGE 1 OF 2

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	ABAN-DONED
	665.1																	
CONCRETE	664.6																	
GRANULAR BASE	664.1																	
MEDIUM DENSE, BROWN, **FINE SAND**, TRACE COARSE SAND, TRACE CLAY, TRACE SILT, DAMP			12 9 10	29	-	SS-1	-	-	-	-	-	-	-	-	-	7	A-3 (V)	
			5 6 8	21	-	SS-2	-	0	9	83	3	5	NP	NP	NP	3	A-3 (0)	
			3 4 4	12	-	SS-3	-	-	-	-	-	-	-	-	-	6	A-3 (V)	
	657.1																	
LOOSE, BROWN, **SILTY SAND**, LITTLE CLAY, WET			3 3 3	9	-	SS-4	-	0	1	48	40	11	NP	NP	NP	19	A-4a (3)	
	654.6																	
MEDIUM DENSE TO DENSE, BROWN, **COARSE AND FINE SAND**, TRACE SILT, TRACE CLAY, TRACE GRAVEL, MOIST TO WET			5 5 5	15	-	SS-5	-	3	6	75	9	7	NP	NP	NP	8	A-3a (0)	
			5 7 7	21	-	SS-6	-	0	9	79	6	6	NP	NP	NP	9	A-3a (0)	
NOTE: GROUNDWATER ENCOUNTERED AT 16.0 FT DURING DRILLING		W 649.1																
			3 3 4	11	-	SS-7	-	-	-	-	-	-	-	-	-	26	A-3a (V)	
			3 2 9	17	-	SS-8	-	-	-	-	-	-	-	-	-	33	A-3a (V)	
			7 8 10	27	-	SS-9	-	-	-	-	-	-	-	-	-	29	A-3a (V)	
			4 8 13	32	-	SS-10	-	-	-	-	-	-	-	-	-	19	A-3a (V)	
	639.6																	
MEDIUM DENSE TO DENSE, GRAY, **SILT**, SOME CLAY, LITTLE SAND, MOIST TO WET			4 7 9	24	-	SS-11	-	0	0	13	62	25	NP	NP	NP	19	A-4b (8)	
			5 8 13	32	-	SS-12	-	-	-	-	-	-	-	-	-	18	A-4b (V)	
CHANGES TO VERY DENSE NOTE: CAVE-IN DEPTH AT 34.0 FT			11 16 19	53	-	SS-13	-	0	0	2	74	24	NP	NP	NP	17	A-4b (8)	
			20 29 45	111	-	SS-14	-	-	-	-	-	-	-	-	-	17	A-4b (V)	
			13 18 20	57	-	SS-15	-	-	-	-	-	-	-	-	-	18	A-4b (V)	
	618.1																	
STIFF TO VERY STIFF, GRAY, **SILT AND CLAY**, TRACE GRAVEL, MOIST			4 8 10	27	-	SS-16	1.5-2.0	-	-	-	-	-	-	-	-	30	A-6a (V)	
			5 7 10	26	-	SS-17	1.25-1.5	1	0	0	54	45	31	18	13	27	A-6a (9)	
NOTE: SWITCHED TO TRICONE AT 55.0 FT			5 6 9	23	-	SS-18	1.25-1.5	-	-	-	-	-	-	-	-	24	A-6a (V)	

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 13:36 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\85188_HISTORICAL CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1241 TOTAL P.1269	57 TOTAL 85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-006-0-12

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:26:50 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ID019.dgn

PID: 85188 | SFN: CUY-77-13.31 | PROJECT: CUY-77-13.31 | STATION / OFFSET: 175+71, 65' LT. | START: 8/1/12 | END: 8/2/12 | PG 2 OF 2 | B-006-0-12

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	ABAN-DONED
STIFF TO VERY STIFF, GRAY, **SILT AND CLAY**, TRACE GRAVEL, MOIST *(continued)*	605.1	61																
		62																
		63																
		64	7 8 11	29	-	SS-19	2.25-2.75	-	-	-	-	-	-	-	-	21	A-6a (V)	
		65																
		66																
		67																
		68																
		69	5 5 7	18	-	SS-20	1.00	0	0	0	46	54	29	15	14	24	A-6a (10)	
		70																
		71																
		72																
		73																
		74	5 6 7	20	-	SS-21	1.25	-	-	-	-	-	-	-	-	26	A-6a (V)	
		75																
		76																
		77																
		78																
		79	5 6 8	21	-	SS-22	1.25-2.0	0	0	0	47	53	29	17	12	24	A-6a (9)	
		80																
		81																
		82																
		83																
		84	5 6 9	23	-	SS-23	0.6-0.75	-	-	-	-	-	-	-	-	24	A-6a (V)	
		85																
		86																
		87																
		88																
		89	7 9 11	30	-	SS-24	1.75-2.0	-	-	-	-	-	-	-	-	25	A-6a (V)	
		90																
		91																
		92																
		93																
		94	6 8 10	27	-	SS-25	0.75-1.0	-	-	-	-	-	-	-	-	19	A-6a (V)	
		95																
		96																
		97																
		98																
MEDIUM STIFF TO STIFF, GRAY, **SILT**, AND CLAY, TRACE GRAVEL, WET	568.1	99	10 8 9	26	-	SS-26	0.5-2.0	1	0	0	57	42	26	17	9	28	A-4b (8)	
	563.6	100																
		101																
		102																
		103																
SOFT TO MEDIUM STIFF, GRAY, **SILT AND CLAY**, TRACE SAND, TRACE GRAVEL, MOIST		104	8 10 12	33	-	SS-27	0.5-0.75	1	2	3	29	65	33	18	15	25	A-6a (10)	
		105																
		106																
		107																
		108																
		109	8 9 11	30	-	SS-28	0.5-0.75	-	-	-	-	-	-	-	-	24	A-6a (V)	
	555.1	110	EOB															

NOTES: HISTORICAL BORING LOG RETYPED FROM BORING NO. B-006-0-12 COMPLETED ON 8/2/2012 FOR PROJECT NO. 85188 [BRIDGE NO. CUY-77-11.69]

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PUMPED 3 BAGS BENTONITE GROUT; PLACED 0.5 BAG QUICKCRETE

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 13:36 - W:\ODOT\301525 CUY-77-11.41 PID_105743\GEOTECHNICAL\TRC LOGS\85188_HISTORICAL CUY LOGS-11_8_2023.GPJ

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:27:31 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ID020.dgn

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 06/05/19 16:22 - G:\CLEVELAND\DCS\PROJECTS\TRN\605878\42_CUY771121\900_CAD_GIS\105743_CUY-77-1121\DESIGN\GEO

PROJECT: CUY-77-11.21	DRILLING FIRM / OPERATOR: OHIO TESTBOR / CS	DRILL RIG: SIMCO 2800 (062012)	STATION / OFFSET: 159+05, 40' LT.
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: AECOM / TG	HAMMER: AUTOMATIC HAMMER	ALIGNMENT: I-77 EX CL
PID: 105743 SFN:	DRILLING METHOD: 4" SSA	CALIBRATION DATE: 11/13/18	ELEVATION: 678.7 (MSL) EOB: 7.5 ft.
START: 3/19/18 END: 3/19/18	SAMPLING METHOD: SPT	ENERGY RATIO (%): 84.5	LAT / LONG: 41.460410, -81.657160

EXPLORATION ID B-022-0-18

PAGE 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV. 678.7	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	ABAN-DONED
8" ASPHALT	678.0																		
9" CONCRETE	677.3																		
VERY DENSE, DARK BROWN, **STONE FRAGMENTS WITH SAND**, STONE FRAGMENTS AS SLAG, FILL, MOIST	676.2	1	30 50/2"	-	100	SS-1	-	-	-	-	-	-	-	-	-	11	A-1-b (V)	1500	
MEDIUM DENSE, BROWN, **SANDY SILT**, MOIST	675.4	2				SS-2A	-	-	-	-	-	-	-	-	-	-	A-4a (V)	-	
STIFF, GRAYISH BROWN, **SILT AND CLAY**, INTERBEDDED SILT LAMINAE, MOIST	674.2	3	5 5 6	15	56	SS-2B	2.88	0	0	1	50	49	31	19	12	22	A-6a (9)	1200	
MEDIUM STIFF, GRAYISH BROWN, **SILTY CLAY**, MOIST	672.7	4	4 4 5	13	78	SS-3	0.58	0	0	1	30	69	39	23	16	27	A-6b (10)	-	
MEDIUM DENSE, GRAYISH BROWN, **SANDY SILT**, MOIST @ 6.9' - OXIDIZED @ 7.1' - BECOMES MOIST TO WET, DILATENT	671.2 EOB	5 6 7	7 9 9	25	83	SS-4A	1.00	-	-	-	-	-	-	-	-	16	A-6b (V)	-	
						SS-4B	-	-	-	-	-	-	-	-	-	-	A-4a (V)	-	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PATCHED AT SURFACE WITH 8 IN. ASPHALT PATCH; PLACED 9 IN. CONCRETE; BACKFILLED WITH 6.1 FT. SOIL CUTTINGS

Preliminary Plans - For Reference Only

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1243 TOTAL P.1269	59 TOTAL 85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-022-0-18

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:28:11 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ID021.dgn

PROJECT: CUY-77-11.21
TYPE: BRIDGE
PID: 105743 SFN:
START: 3/21/18 END: 3/21/18

DRILLING FIRM / OPERATOR: OHIO TESTBOR / CS
SAMPLING FIRM / LOGGER: AECOM / TG
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: SIMCO 2800 (062012)
HAMMER: AUTOMATIC HAMMER
CALIBRATION DATE: 11/13/18
ENERGY RATIO (%): 84.5

STATION / OFFSET: 169+65, 54' RT.
ALIGNMENT: I-77 EX CL
ELEVATION: 656.1 (MSL) EOB: 50.0 ft.
LAT / LONG: 41.463260, -81.657250

EXPLORATION ID B-025-0-18
PAGE 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	ABAN-DONED
MEDIUM DENSE, GRAY AND BROWN, **GRAVEL**, SOME SAND, LITTLE SILT, FILL, MOIST	656.1		8 50/5"	-	64	SS-1	-	53	24	16	5	2	NP	NP	NP	14	A-1-a (0)	-	
BECOMES VERY DENSE	653.6																		
MEDIUM DENSE, BROWN AND BLACK, **GRAVEL**, AS MIXTURE OF COAL AND FOUNDARY SAND, FILL, MOIST	652.6																		
MEDIUM DENSE, BROWN, **FINE SAND**, OXIDIZED, MOIST	650.6		3 6 6	17	89	SS-2	-	52	15	19	- 14 -		NP	NP	NP	11	A-1-b (0)	-	
LOOSE, BROWN, **SANDY SILT**, MOIST	649.4		2 4 4	11	89	SS-3A	-	0	0	49	46	5	NP	NP	NP	22	A-4a (3)	-	
MEDIUM STIFF, BROWN, **SILT**, HOIZONTALLY BEDDED, MOIST	649.3					SS-3B	0.75	-	-	-	-	-	-	-	-	-	A-4b (V)	-	
						SS-3C	-	-	-	-	-	-	-	-	-	-	A-4b (V)	-	
LOOSE, BROWN, **SILT**, LITTLE SAND, MOIST		W 647.6																	
BECOMES WET			2 4 4	11	78	SS-4	-	0	1	63	31	5	NP	NP	NP	27	A-4a (0)	-	
BECOMES GRAYISH BROWN																			
BECOMES MEDIUM DENSE			8 12 13	35	94	SS-5	-	-	-	-	-	-	-	-	-	23	A-4b (V)	-	
HARD, BROWNISH GRAY, **SILT**, MOIST	639.3		3 5 7	17	83	SS-6	4.08	2	0	1	73	24	25	19	6	19	A-4b (8)	-	
SOFT TO MEDIUM STIFF, BROWNISH GRAY, **SILT**, DILATENT, WITH INTERBEDDED NON-COHESIVE SILT SEAMS UP TO 1.5" THICK, MOIST TO WET	634.3		2 3 3	8	89	SS-7	0.50	-	-	-	-	-	-	-	-	27	A-4b (V)	-	
			2 3 5	11	100	SS-8	0.67	0	0	0	65	35	26	19	7	32	A-4b (8)	-	
					100	ST-1	0.40	0	0	1	86	13	NP	NP	NP	28	A-4b (8)	-	
BECOMES WITH INTERBEDDED SILT LAMINAE			2 2 4	8	94	SS-9	0.50	-	-	-	-	-	-	-	-	27	A-4b (V)	-	
MEDIUM STIFF, BROWNISH GRAY, **SILT AND CLAY**, WITH SILT LAMINAE, MOIST	619.6																		
@ 38.9' - 0.5" DARK GRAY ORGANIC STAINING			3 4 5	13	94	SS-10	0.75	1	0	1	45	53	33	19	14	26	A-6a (10)	-	
BECOMES STIFF			3 6 8	20	100	SS-11	1.50	-	-	-	-	-	-	-	-	24	A-6a (V)	-	
BECOMES STIFF TO VERY STIFF	606.1	EOB	4 6 9	21	94	SS-12	2.00	-	-	-	-	-	-	-	-	-	A-6a (V)	-	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: MIXED WITH BENTONITE CHIPS; MIXED WITH BENTONITE POWDER; MIXED WITH CEMENT; BACKFILLED WITH SOIL CUTTINGS

Preliminary Plans - For Reference Only

STANDARD ODOT LOG W/ SULFATES (11 X 17) - OH DOT.GDT - 06/27/19 16:51 - G:\CLEVELAND\DGS\PROJECTS\TRN\60587842_CUY77112\1\00_CAD_GIS\105743_CUY-77-1121\DESIGN\GEOTECHNICAL\BORINGLOGS\CUY-77-11.21 BORING LOGS.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1244 / P.1269 TOTAL	60 / 85 TOTAL	105743	SDM 05/01/26	EB	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-025-0-18

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:28:54 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ID022.dgn

PROJECT: CUY-77-11.21
TYPE: BRIDGE
PID: 105743 SFN:
START: 3/15/19 END: 3/15/19

DRILLING FIRM / OPERATOR: OHIO TESTBOR / CS
SAMPLING FIRM / LOGGER: AECOM / TG
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: SIMCO 2800 (062012)
HAMMER: AUTOMATIC HAMMER
CALIBRATION DATE: 11/13/18
ENERGY RATIO (%): 84.5

STATION / OFFSET: 171+20, 74' LT.
ALIGNMENT: I-77 EX CL
ELEVATION: 653.6 (MSL) EOB: 50.0 ft.
LAT / LONG: 41.463700, -81.657880

EXPLORATION ID B-026-0-18
PAGE 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	ABAN-DONED
1" TOPSOIL	653.5																		
MEDIUM DENSE, BROWN AND GRAY, **GRAVEL**, AND SAND, FILL, MOIST	651.9		6 13 5	25	78	SS-1A	-	23	39	22	12	4	NP	NP	NP	17	A-1-b (0)	-	
VERY STIFF, BROWN, **SANDY SILT**, TRACE GRAVEL, FILL, MOIST						SS-1B	2.25	1	16	26	35	22	17	14	3	15	A-4a (4)	-	
	649.8					SS-2A	0.88	3	43	31	14	9	NP	NP	NP	9	A-3a (0)	-	
LOOSE, BROWN, **COARSE AND FINE SAND**, FILL, MOIST	649.2		3 3 4	10	78	SS-2B	2.00	-	-	-	-	-	-	-	-	-	A-3a (V)	-	
						SS-2C	-	0	3	7	58	32	26	18	8	18	A-4b (8)	-	
VERY STIFF, BROWN, **SILT**, LITTLE SAND, FILL, MOIST	648.1																		
LOOSE, BROWN, **COARSE AND FINE SAND**, LITTLE TO SOME SILT, FILL, MOIST	647.0					SS-3A	-	3	24	52	11	10	NP	NP	NP	13	A-3a (0)	-	
HARD, BROWN, **SILT**, LITTLE SAND, FILL, MOIST			2 2 2	6	67	SS-3B	4.5+	-	-	-	-	-	-	-	-	17	A-4b (V)	-	
	644.1		1 2 2	6	78	SS-4A	1.00	5	10	17	37	31	27	17	10	21	A-4a (7)	-	
LOOSE, BROWN, **SANDY SILT**, FILL, MOIST						SS-4B	-	-	-	-	-	-	-	-	-	17	A-4a (V)	-	
	641.8																		
MEDIUM STIFF, GRAY WITH BLACK MOTTLING, **ELASTIC SILT AND CLAY**, TRACE ORGANICS, POSSIBLE FILL, MOIST			1 4 3	10	78	SS-5	0.70	0	5	34	31	30	25	15	10	22	A-4a (5)	-	
	638.1																		
POSSIBLE COBBLEY ZONE	636.8																		
VERY STIFF, BROWNISH GRAY, **SILT**, MOIST			3 4 5	13	83	SS-6	2.67	-	-	-	-	-	-	-	-	21	A-4b (V)	-	
			2 3 5	11	100	SS-7	0.60	0	0	1	68	31	27	21	6	25	A-4b (8)	-	
MEDIUM STIFF, BROWNISH GRAY, **SILT**, MOIST WITH INTERBEDDED NON-COHESIVE SILT LAYERS, 1/16" TO 2" THICK			2 4 4	11	94	SS-8	0.65	-	-	-	-	-	-	-	-	26	A-4b (V)	-	
					0	ST-1	-	-	-	-	-	-	-	-	-	-		-	
		W 620.1																	
BECOMES MOIST TO WET, DILATENT			2 2 4	8	100	SS-9	0.83	0	0	0	67	33	28	20	8	26	A-4b (8)	-	
	618.1																		
STIFF, BROWNISH GRAY, **SILT AND CLAY**, WITH SILT LAMINAE, MOIST					100	ST-2	2.13	-	-	-	-	-	-	-	-	-	A-6a (V)	-	
			2 4 5	13	100	SS-10	1.75	1	0	0	53	46	31	20	11	24	A-6a (8)	-	
			2 5 7	17	100	SS-11	1.92	-	-	-	-	-	-	-	-	23	A-6a (V)	-	
	606.8																		
MEDIUM DENSE, BROWNISH GRAY, **SILT**, MOIST																			
	604.3		7 8 8	23	100	SS-12A	-	0	0	0	90	10	NP	NP	NP	19	A-4b (8)	-	
VERY STIFF, BROWNISH GRAY, **SILT AND CLAY**, WITH SILT LAMINAE, MOIST	603.6	EOB				SS-12B	2.13	-	-	-	-	-	-	-	-	23	A-6a (V)	-	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH CEMENT; BACKFILLED WITH SOIL CUTTINGS

Preliminary Plans - For Reference Only

STANDARD ODOT LOG W/ SULFATES (11 X 17) - OH DOT.GDT - 06/27/19 16:52 - G:\CLEVELAND\DGS\PROJECTS\TRN\60587842_CUY771121\900_CAD_GIS\105743_CUY-77-1121\DESIGN\GEOTECHNICAL\BORINGLOGS\CUY-77-11.21 BORING LOGS.GPJ

SHEET P.1245 TOTAL P.1269 | SUBSET 61 TOTAL 85 | PROJECT ID 105743 | REVIEWER SDM 05/01/26 | DESIGNER EB | DESIGN AGENCY TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-026-0-18

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:29:47 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZL001.dgn

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 5/1/26 10:10 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / DONOVAN | DRILL RIG: CME 45 TRACKED | STATION / OFFSET: 79+50, 78' LT. | EXPLORATION ID: B-040-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / DONOVAN | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 8/5/20 | ELEVATION: 694.7 (ft) EOB: 25.0 ft. | PAGE: 1 OF 1
START: 12/7/21 END: 12/7/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 89.3 | LAT / LONG: 41.439859, -81.650141

MATERIAL DESCRIPTION AND NOTES	ELEV. 694.7	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
ASPHALT (7")	694.1																	
AGGREGATE BASE, DRY	693.7																	
MEDIUM DENSE, BROWN, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND**, TRACE SILT, DAMP			8 3 5	12	100	SS-1	-	-	-	-	-	-	-	-	-	9	A-1b (V)	
			4 3 5	12	100	SS-2	-	-	-	-	-	-	-	-	-	9	A-1b (V)	
		W 688.7																
			4 4 5	13	100	SS-3	-	-	-	-	-	-	-	-	-	13	A-1b (V)	
		▽ 686.7																
			4 6 5	16	100	SS-4	-	41	38	17	-	4 -	NP	NP	NP	14	A-1b (0)	
	683.7																	
HARD, GRAY, **SANDY SILT**, "AND" CLAY,TRACE SAND,TRACE GRAVEL, WET			3 4 5	13	100	SS-5	-	-	-	-	-	-	-	-	-	28	A-4a (V)	
			5 6 8	21	100	SS-6	>4.5	0	0	0	46	54	29	20	9	24	A-4a (8)	
			5 7 8	22	100	SS-7	>4.5	-	-	-	-	-	-	-	-	20	A-4a (V)	
			6 10 11	31	100	SS-8	-	-	-	-	-	-	-	-	-	17	A-4a (V)	
@21' VERY STIFF			4 7 12	28	100	SS-9	-	-	-	-	-	-	-	-	-	23	A-4a (V)	
	671.2																	
DENSE, GRAY, **FINE SAND**, WET (FS)	669.7		7 12 14	39	100	SS-10	-	-	-	-	-	-	-	-	-	25	A-3 (V)	
		EOB																

NOTES: DUE TO GRANULAR NATURE OF SOILS, UNABLE TO RETRIEVE A SHELBY TUBES. FINE CONTENT REPORTED AS SILT IN SS-4
ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 5/1/26 10:10 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / DONOVAN | DRILL RIG: CME 45 TRACKED | STATION / OFFSET: 85+65, 67' LT. | EXPLORATION ID: B-041-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / DONOVAN | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 8/5/20 | ELEVATION: 694.3 (ft) EOB: 30.0 ft. | PAGE: 1 OF 1
START: 12/7/21 END: 12/7/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 89.3 | LAT / LONG: 41.441468, -81.650749

MATERIAL DESCRIPTION AND NOTES	ELEV. 694.3	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
ASPHALT (7")	693.7																	
AGGREGATE BASE, DRY	693.3																	
MEDIUM DENSE, GRAY AND BROWN, **FINE SAND**, SOME SILT, TRACE FINE GRAVEL, DAMP (FS)	690.8		3 4 6	15	100	SS-1	-	-	-	-	-	-	-	-	-	9	A-3 (V)	
MEDIUM DENSE TO DENSE, BROWN AND GRAY, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE SILT, MOIST			7 10 11	31	78	SS-2	-	31	45	17	-	7 -	NP	NP	NP	5	A-1b (0)	
			3 3 6	13	100	SS-3	-	-	-	-	-	-	-	-	-	11	A-1b (V)	
		W 686.3																
			4 7 7	21	100	SS-4	-	-	-	-	-	-	-	-	-	11	A-1b (V)	
	683.3																	
VERY STIFF, GRAY, **SILT**, "AND" CLAY, MOIST			3 4 4	12	100	SS-5	2.25	-	-	-	-	-	-	-	-	25	A-4b (V)	
					100	ST-6	-	0	0	0	60	40	29	21	8	26	A-4b (8)	
	678.3		3 4 5	13	100	SS-7	2.50	-	-	-	-	-	-	-	-	24	A-4b (V)	
HARD, GRAY, **SANDY SILT**, MOIST		▽ 677.3	7 10 14	36	100	SS-8	>4.5	-	-	-	-	-	-	-	-	15	A-4a (V)	
	675.8																	
MEDIUM DENSE TO DENSE, GRAY, **SILT**, LITTLE FINE SAND, TRACE COARSE SAND, MOIST			7 10 13	34	100	SS-9	-	-	-	-	-	-	-	-	-	19	A-4b (V)	
			5 6 8	21	100	SS-10	-	0	1	13	-	86 -	NP	NP	NP	23	A-4b (8)	
			4 7 10	25	100	SS-11	-	-	-	-	-	-	-	-	-	22	A-4b (V)	
	664.3	EOB																

NOTES: BOREHOLE CAVED IN AT 14.4 FT BGS. FINE CONTENT REPORTED AS SILT IN SS-2, SS-9
ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P 1246	62	105743	SDM 05/01/26	NMC	TRC
TOTAL P 1269	TOTAL 85				

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-040-0-20 and B-041-0-20

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:30:32 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZL002.dgn

PROJECT: CUY-77-11.2	DRILLING FIRM / OPERATOR: CTL / DONOVAN	DRILL RIG: CME 45 TRACKED	STATION / OFFSET: 88+24, 63' LT.	EXPLORATION ID B-042-0-20
TYPE: RETAINING WALL	SAMPLING FIRM / LOGGER: CTL / DONOVAN	HAMMER: AUTOMATIC HAMMER	ALIGNMENT: CL IR 77	
PID: 105743 SFN: CUY-77-11.21	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/5/20	ELEVATION: 696.6 (ft) EOB: 35.0 ft.	PAGE 1 OF 1
START: 12/7/21 END: 12/7/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 89.3	LAT / LONG: 41.442102, -81.651046	

MATERIAL DESCRIPTION AND NOTES	ELEV. 696.6	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
ASPHALT (9")	695.8																	
MEDIUM DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE SILT, DAMP	690.6		12 11 7	27	72	SS-1	-	-	-	-	-	-	-	-	-	13	A-1-b (V)	
			3 5 4	13	78	SS-2	-	48	30	15	-	7 -	NP	NP	NP	5	A-1-b (0)	
MEDIUM DENSE, GRAY, **COARSE AND FINE SAND**, TRACE FINE GRAVEL, TRACE SILT, DAMP	688.1	W 688.6	3 4 6	15	100	SS-3	-	-	-	-	-	-	-	-	-	8	A-3a (V)	
MEDIUM DENSE, GRAY, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE SILT, MOIST	685.6		3 4 5	13	100	SS-4	-	-	-	-	-	-	-	-	-	13	A-1-b (V)	
VERY STIFF, GRAY, **SANDY SILT**, "AND" CLAY, TRACE GRAVEL, MOIST TO WET		▽ 684.6	5 8 8	24	100	SS-5	3.50	-	-	-	-	-	-	-	-	20	A-4a (V)	
			4 6 7	19	100	SS-6	4.00	0	0	1	42	57	26	21	5	21	A-4a (8)	
@16' HARD			5 8 10	27	100	SS-7	>4.5	-	-	-	-	-	-	-	-	20	A-4a (V)	
			9 12 14	39	100	SS-8	-	-	-	-	-	-	-	-	-	10	A-4a (V)	
			6 12 15	40	100	SS-9	-	-	-	-	-	-	-	-	-	19	A-4a (V)	
			9 12 16	42	100	SS-10	-	-	-	-	-	-	-	-	-	18	A-4a (V)	
	661.6	EOB	12 20 22	63	100	SS-11	-	-	-	-	-	-	-	-	-	20	A-4a (V)	

NOTES: BOREHOLE CAVED IN AT 19.6 FT BGS. FINE CONTENT REPORTED AS SILT IN SS-2

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 15:01 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P 1247 / TOTAL P 1269	63 / TOTAL 85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-042-0-20

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:31:26 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZL003.dgn

Preliminary Plans - For Reference Only

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / JASON | DRILL RIG: CME 550X ATV | STATION / OFFSET: 90+25, 53' LT. | EXPLORATION ID B-043-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / JASON | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 10/19/21 | ELEVATION: 697.8 (ft) EOB: 30.0 ft. | PAGE 1 OF 1
START: 12/7/21 END: 12/7/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 85.6 | LAT / LONG: 41.442584, -81.651305

MATERIAL DESCRIPTION AND NOTES	ELEV. 697.8	DEPTHS	SPT/RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
ASPHALT (18")	696.3																	
MEDIUM DENSE, BROWN AND GRAY, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND**, DRY	694.3		6 4 4	11	100	SS-1	-	-	-	-	-	-	-	-	-	19	A-1b (V)	
MEDIUM DENSE, GRAY, **SILT**, TRACE GRAVEL, LITTLE COARSE TO FINE SAND, TRACE CLAY, MOIST	691.8		2 3 5	11	100	SS-2	-	1	1	18	76	4	20	22	NP	27	A-4b (8)	
MEDIUM DENSE, BROWN, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND**, TRACE SILT, TRACE CLAY, DAMP			9 8 6	20	100	SS-3	-	-	-	-	-	-	-	-	-	2	A-1b (V)	
			8 9 7	23	100	SS-4	-	29	34	30	-	7 -	NP	NP	NP	5	A-1b (0)	
		W 686.5																
			4 4 4	11	100	SS-5	-	-	-	-	-	-	-	-	-	13	A-1b (V)	
			4 7 7	20	100	SS-6	-	-	-	-	-	-	-	-	-	21	A-1b (V)	
	681.8																	
HARD, GRAY, **SILT**, "AND" CLAY, TRACE GRAVEL, TRACE SAND, DAMP					100	ST-7	>4.5	1	1	1	61	36	29	20	9	21	A-4b (8)	
@18.5' VERY STIFF			4 5 6	16	100	SS-8	4.00	-	-	-	-	-	-	-	-	20	A-4b (V)	
			4 5 6	16	89	SS-9	-	-	-	-	-	-	-	-	-	16	A-4b (V)	
@28.5' HARD			11 14 17	44	100	SS-10	-	-	-	-	-	-	-	-	-	18	A-4b (V)	
	667.8	EOB																

NOTES: BOREHOLE CAVED IN AT 9.9 FT BGS. FINE CONTENT REPORTED AS SILT IN SS-4
ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / JASON | DRILL RIG: CME 550X ATV | STATION / OFFSET: 93+00, 50' LT. | EXPLORATION ID B-044-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / JASON | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 10/19/21 | ELEVATION: 697.5 (ft) EOB: 30.0 ft. | PAGE 1 OF 1
START: 12/7/21 END: 12/7/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 85.6 | LAT / LONG: 41.443278, -81.651798

MATERIAL DESCRIPTION AND NOTES	ELEV. 697.5	DEPTHS	SPT/RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
ASPHALT (18")	696.0																	
MEDIUM DENSE, GRAY, **GRAVEL AND STONE FRAGMENTS WITH SAND**, DAMP	693.0		8 5 6	16	33	SS-1	-	-	-	-	-	-	-	-	-	5	A-1b (V)	
			3 4 9	19	89	SS-2A	-	-	-	-	-	-	-	-	-	6	A-1b (V)	
						SS-2B	-	-	-	-	-	-	-	-	-	-	A-3 (0)	
MEDIUM DENSE, BROWN, **FINE SAND**, TRACE GRAVEL, TRACE SILT, DAMP			7 7 7	20	100	SS-3	-	4	36	51	-	9 -	NP	NP	NP	3	A-3 (0)	
			3 4 5	13	100	SS-4	-	8	13	71	-	8 -	NP	NP	NP	5	A-3 (0)	
	685.5	W 685.5	4 6 6	17	89	SS-5A	-	-	-	-	-	-	-	-	-	12	A-3 (V)	
						SS-5B	-	-	-	-	-	-	-	-	-	-	A-1b (V)	
MEDIUM DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, WET			3 5 4	13	100	SS-6	-	-	-	-	-	-	-	-	-	10	A-1b (V)	
	680.5		6 4 6	14	100	SS-7A	-	-	-	-	-	-	-	-	-	19	A-1b (V)	
VERY STIFF TO HARD, GRAY, **SILT**, SOME CLAY, MOIST						SS-7B	>4.5	-	-	-	-	-	-	-	-	-	A-4b (V)	
					100	ST-8	-	0	0	0	63	37	27	21	6	24	A-4b (8)	
			4 6 7	19	78	SS-9	2.00	-	-	-	-	-	-	-	-	28	A-4b (V)	
	668.5					SS-10A	-	-	-	-	-	-	-	-	-	-	A-4b (V)	
DENSE, GRAY, **FINE SAND**, LITTLE SILT, DAMP	667.5	FS EOB	7 10 15	36	100	SS-10B	-	-	-	-	-	-	-	-	-	20	A-3 (V)	

NOTES: BOREHOLE CAVED IN AT 10.3 FT BGS. FINE CONTENT REPORTED AS SILT IN SS-3, SS-4
ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P 1248 / P 1269 TOTAL	64 / 85 TOTAL	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-043-0-20 and B-044-0-20

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 5/1/26 10:10 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

CUY-77-11.41

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:32:10 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZL004.dgn

PROJECT: CUY-77-11.2	DRILLING FIRM / OPERATOR: CTL / JASON	DRILL RIG: CME 550X ATV	STATION / OFFSET: 92+50, 64' RT.
TYPE: RETAINING WALL	SAMPLING FIRM / LOGGER: CTL / JASON	HAMMER: AUTOMATIC HAMMER	ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/19/21	ELEVATION: 699.6 (ft) EOB: 40.0 ft.
START: 12/8/21 END: 12/8/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 85.6	LAT / LONG: 41.443288, -81.651430

EXPLORATION ID: B-046-0-20
PAGE: 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
AGGREGATE BASE, DRY	699.6																	
MEDIUM DENSE, BROWN AND GRAY, **SILT**, SOME CLAY, TRACE FINE SAND, DAMP	699.3		3 4 4	11	67	SS-1	-	-	-	-	-	-	-	-	-	7	A-4b (V)	
@3.5' LOOSE		▼ 695.1	3 2 4	9	72	SS-2	-	0	0	1	73	26	NP	NP	NP	25	A-4b (8)	
MEDIUM DENSE, BROWN AND GRAY, **COARSE AND FINE SAND**, LITTLE GRAVEL, LITTLE SILT, DAMP	693.6		4 6 7	19	100	SS-3	-	-	-	-	-	-	-	-	-	4	A-3a (V)	
			8 9 7	23	100	SS-4	-	-	-	-	-	-	-	-	-	5	A-3a (V)	
			6 6 4	14	78	SS-5	-	12	28	49	- 11 -		NP	NP	NP	10	A-3a (0)	
			4 5 7	17	78	SS-6	-	-	-	-	-	-	-	-	-	10	A-3a (V)	
HARD, BROWN AND GRAY, **SILT AND CLAY**, TRACE SAND, DAMP	683.6		4 5 10	21	100	SS-7	>4.5	-	-	-	-	-	-	-	-	19	A-6a (V)	
					100	ST-8	-	0	0	0	60	40	33	21	12	21	A-6a (9)	
@23.5' VERY STIFF			3 7 9	23	89	SS-9	-	-	-	-	-	-	-	-	-	15	A-6a (V)	
VERY STIFF, BROWN AND GRAY, **SANDY SILT**, MOIST	671.1		6 6 6	17	100	SS-10	-	-	-	-	-	-	-	-	-	26	A-4a (V)	
			7 6 7	19	100	SS-11	-	-	-	-	-	-	-	-	-	30	A-4a (V)	
@38.5 HARD	659.6	EOB	6 8 10	26	100	SS-12	>4.5	-	-	-	-	-	-	-	-	22	A-4a (V)	

NOTES: BOREHOLE CAVED IN AT 13.4 FT BGS FINE CONTENT REPORTED AS SILT IN SS-5

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 15:01 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1249 / TOTAL P.1269	65 / TOTAL 85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-046-0-20

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:33:02 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZL005.dgn

PROJECT: CUY-77-11.2
TYPE: RETAINING WALL
PID: 105743 SFN: CUY-77-11.21
START: 12/6/21 END: 12/6/21

DRILLING FIRM / OPERATOR: CTL / JASON
SAMPLING FIRM / LOGGER: CTL / JASON
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME 550X ATV
HAMMER: AUTOMATIC HAMMER
CALIBRATION DATE: 10/19/21
ENERGY RATIO (%): 85.6

STATION / OFFSET: 97+20, 54' LT.
ALIGNMENT: CL IR 77
ELEVATION: 693.0 (ft) EOB: 35.0 ft.
LAT / LONG: 41.444193, -81.652595

EXPLORATION ID B-048-0-20
PAGE 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV. 693.0	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
ASPHALT (17")	691.6																	
AGGREGATE BASE, DRY	691.1		4 7 50	81	39	SS-1A	-	-	-	-	-	-	-	-	-	-		
VERY LOOSE TO LOOSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE SILT, FILL, DRY FILL						SS-1B	-	-	-	-	-	-	-	-	-	15	A-1-b (V)	
			4 2 3	7	72	SS-2	-	-	-	-	-	-	-	-	-	15	A-1-b (V)	
@6' VERY LOOSE			1 1 1	3	67	SS-3	-	19	43	28	-	10 -	NP	NP	NP	24	A-1-b (0)	
	684.5	W 684.5																
VERY STIFF, BROWN TO GRAY, **SILT**, "AND" CLAY, TRACE SAND, DRY			3 2 4	9	72	SS-4	2.50	-	-	-	-	-	-	-	-	18	A-4b (V)	
			4 5 7	17	100	SS-5	3.50	-	-	-	-	-	-	-	-	19	A-4b (V)	
			4 4 5	13	100	SS-6	3.00	-	-	-	-	-	-	-	-	21	A-4b (V)	
@16' HARD, DAMP TO MOIST			4 5 7	17	100	SS-7	>4.5	0	0	3	58	39	25	19	6	18	A-4b (8)	
			3 4 6	14	100	SS-8	>4.5	-	-	-	-	-	-	-	-	19	A-4b (V)	
	669.5																	
HARD, BROWN TO GRAY, **SANDY SILT**, "AND" CLAY, TRACE SAND, DAMP TO MOIST			5 9 14	33	100	SS-9	-	-	-	-	-	-	-	-	-	17	A-4a (V)	
@28.5' VERY STIFF			6 7 10	24	100	SS-10	-	-	-	-	-	-	-	-	-	11	A-4a (V)	
	658.0	EOB	7 7 9	23	100	SS-11	-	-	-	-	-	-	-	-	-	18	A-4a (V)	

NOTES: BOREHOLE CAVED IN AT 2.6 FT BGS. FINE CONTENT REPORTED AS SILT IN SS-3

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 15:01 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-048-0-20

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:33:51 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZL006.dgn

PROJECT: CUY-77-11.2
TYPE: RETAINING WALL
PID: 105743 SFN: CUY-77-11.21
START: 12/6/21 END: 12/6/21

DRILLING FIRM / OPERATOR: CTL / JASON
SAMPLING FIRM / LOGGER: CTL / JASON
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME 550X ATV
HAMMER: AUTOMATIC HAMMER
CALIBRATION DATE: 10/19/21
ENERGY RATIO (%): 85.6

STATION / OFFSET: 98+75, 57' LT.
ALIGNMENT: CL IR 77
ELEVATION: 691.7 (ft) EOB: 35.0 ft.
LAT / LONG: 41.444583, -81.652998

EXPLORATION ID B-049-0-20
PAGE 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV. 691.7	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
ASPHALT (18")	690.2																	
MEDIUM DENSE, BROWN, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND AND SILT**, DAMP		▽ 686.2	4 6 8	20	67	SS-1	-	-	-	-	-	-	-	-	-	10	A-2-4 (V)	
			6 7 7	20	83	SS-2	-	-	-	-	-	-	-	-	-	11	A-2-4 (V)	
	685.2	W 685.2																
LOOSE, GRAY, **COARSE AND FINE SAND**, TRACE GRAVEL, LITTLE SILT, TRACE CLAY, DAMP	682.7		4 4 3	10	89	SS-3	-	8	23	59	- 10 -		NP	NP	NP	20	A-3a (0)	
VERY STIFF, GRAY, **SILT**, "AND" CLAY, TRACE SAND, TRACE GRAVEL, MOIST			4 3 4	10	78	SS-4	2.75	-	-	-	-	-	-	-	-	22	A-4b (V)	
					100	ST-5	2.25	1	2	1	55	41	30	20	10	21	A-4b (8)	
@13.5' STIFF			4 4 6	14	100	SS-6	2.00	-	-	-	-	-	-	-	-	21	A-4b (V)	
			4 4 3	10	100	SS-7	-	-	-	-	-	-	-	-	-	25	A-4b (V)	
					100	ST-8	-	1	0	0	66	33	31	21	10	25	A-4b (8)	
	668.2																	
MEDIUM DENSE, GRAY, **SILT**, TRACE FINE SAND, MOIST			6 7 9	23	83	SS-9	-	-	-	-	-	-	-	-	-	22	A-4b (V)	
			8 9 7	23	100	SS-10	-	-	-	-	-	-	-	-	-	20	A-4b (V)	
@33.5' DENSE			9 14 17	44	100	SS-11	-	-	-	-	-	-	-	-	-	18	A-4b (V)	
	656.7	EOB																

NOTES: BOREHOLE CAVED IN AT 6.1 FT BGS. FINE CONTENT REPORTED AS SILT IN SS-3

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 15:01 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1251 TOTAL P.1269	67 TOTAL 85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-049-0-20

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:34:37 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZL007.dgn

PROJECT: CUY-77-11.2
TYPE: RETAINING WALL
PID: 105743 SFN: CUY-77-11.21
START: 12/6/21 END: 12/6/21

DRILLING FIRM / OPERATOR: CTL / DONOVAN
SAMPLING FIRM / LOGGER: CTL / DONOVAN
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME 45 TRACKED
HAMMER: AUTOMATIC HAMMER
CALIBRATION DATE: 8/5/20
ENERGY RATIO (%): 89.3

STATION / OFFSET: 100+25, 62' LT.
ALIGNMENT: CL IR 77
ELEVATION: 690.0 (ft) EOB: 35.0 ft.
LAT / LONG: 41.444898, -81.653352

EXPLORATION ID B-050-0-20
PAGE 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV. 690.0	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
ASPHALT (6")	689.5																	
AGGREGATE BASE, DRY	689.0																	
MEDIUM DENSE, BROWN, **COARSE AND FINE SAND**, LITTLE GRAVEL, LITTLE SILT, WET			12 8 9	25	78	SS-1	-	-	-	-	-	-	-	-	-	12	A-3a (V)	
		W 686.0	3 5 4	13	100	SS-2	-	21	22	45	- 12 -		NP	NP	NP	16	A-3a (0)	
	684.0																	
VERY STIFF, GRAY, **SILT**, "AND" CLAY, TRACE SAND, DAMP			4 6 9	22	100	SS-3	3.50	-	-	-	-	-	-	-	-	35	A-4b (V)	
			6 6 8	21	100	SS-4	4.00	-	-	-	-	-	-	-	-	18	A-4b (V)	
			4 5 6	16	100	SS-5	2.50	0	0	1	61	38	29	21	8	22	A-4b (8)	
			5 6 8	21	100	SS-6	2.75	-	-	-	-	-	-	-	-	22	A-4b (V)	
		▽ 672.0	4 5 7	18	100	SS-7	2.50	-	-	-	-	-	-	-	-	23	A-4b (V)	
	671.5																	
HARD, GRAY, **SANDY SILT**, TRACE GRAVEL, LITTLE CLAY, MOIST TO WET			4 6 7	19	100	SS-8	4.50	-	-	-	-	-	-	-	-	14	A-4a (V)	
			8 11 10	31	100	SS-9	-	-	-	-	-	-	-	-	-	35	A-4a (V)	
@28.5' MEDIUM STIFF			8 11 16	40	100	SS-10	0.50	4	6	28	46	16	15	13	2	20	A-4a (5)	
@33.5' HARD			11 20 21	61	100	SS-11	-	-	-	-	-	-	-	-	-	16	A-4a (V)	
	655.0	EOB																

NOTES: BOREHOLE CAVED IN AT 17.4 FT BGS. FINE CONTENT REPORTED AS SILT IN SS-2
ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 15:01 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P 1252 TOTAL P 1269	68 TOTAL 85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-050-0-20

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:35:24 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZL008.dgn

Preliminary Plans - For Reference Only

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / DONOVAN | DRILL RIG: CME 45 TRACKED | STATION / OFFSET: 102+50, 66' LT. | EXPLORATION ID B-051-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / DONOVAN | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 8/5/20 | ELEVATION: 688.7 (ft) EOB: 30.0 ft. | PAGE 1 OF 1
START: 12/6/21 END: 12/6/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 89.3 | LAT / LONG: 41.445349, -81.653847

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
ASPHALT (3")	688.4																	
STIFF, BROWN, **SILT**, SOME CLAY, LITTLE GRAVEL, LITTLE SAND, ROCK FRAGMENTS, SLAG, FILL, DRY ROCK FRAGMENTS, SLAG	682.7		7 4 3	10	78	SS-1	-	-	-	-	-	-	-	-	-	14	A-4b (V)	
HARD, GRAY, **SANDY SILT**, DAMP	677.7		4 4 6	15	67	SS-2	-	15	4	8	53	20	24	20	4	20	A-4b (8)	
			3 4 8	18	100	SS-3	4.00	-	-	-	-	-	-	-	-	20	A-4a (V)	
			4 5 8	19	100	SS-4	4.50	-	-	-	-	-	-	-	-	19	A-4a (V)	
VERY STIFF, GRAY, **SANDY SILT**, "AND" CLAY, DAMP			5 4 7	16	100	SS-5	3.00	0	1	1	48	50	26	19	7	24	A-4a (8)	
			4 6 7	19	100	SS-6	3.50	-	-	-	-	-	-	-	-	23	A-4a (V)	
		W 670.7	4 5 7	18	100	SS-7	3.50	-	-	-	-	-	-	-	-	22	A-4a (V)	
		▽ 668.7	5 6 8	21	100	SS-8	2.50	-	-	-	-	-	-	-	-	22	A-4a (V)	
MEDIUM DENSE, GRAY, **SILT**, LITTLE CLAY, LITTLE SAND, MOIST TO WET	665.2		4 7 11	27	100	SS-9	-	0	6	12	66	16	NP	NP	NP	20	A-4b (8)	
HARD, GRAY, **SANDY SILT**, MOIST TO WET	660.2		11 12 14	39	100	SS-10	-	-	-	-	-	-	-	-	-	20	A-4a (V)	
	658.7	EOB																

NOTES: BOREHOLE CAVED IN AT 14.2 FT BGS.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / JASON | DRILL RIG: CME 550X ATV | STATION / OFFSET: 102+75, 67' RT. | EXPLORATION ID B-052-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / JASON | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 10/19/21 | ELEVATION: 686.1 (ft) EOB: 25.0 ft. | PAGE 1 OF 1
START: 12/9/21 END: 12/9/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 85.6 | LAT / LONG: 41.445564, -81.653482

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
ASPHALT (12")	685.1																	
AGGREGATE BASE, DRY	684.8		3 4 5	13	44	SS-1A	-	-	-	-	-	-	-	-	-	-		
MEDIUM DENSE, BROWN AND GRAY, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND**, TRACE SILT, FILL, DAMP	682.6					SS-1B	-	-	-	-	-	-	-	-	-	16	A-1-b (V)	
VERY STIFF, GRAY, **SILT**, SOME CLAY, TRACE SAND, MOIST			4 3 5	11	78	SS-2	3.25	-	-	-	-	-	-	-	-	22	A-4b (V)	
			3 4 5	13	28	SS-3	-	4	3	2	60	31	25	20	5	19	A-4b (8)	
		▽ 675.9	4 3 3	9	100	SS-4	3.00	-	-	-	-	-	-	-	-	24	A-4b (V)	
			3 3 4	10	100	SS-5	2.50	-	-	-	-	-	-	-	-	22	A-4b (V)	
@13.5' "AND" CLAY			6 7 8	21	72	SS-6	2.00	0	0	1	52	47	27	20	7	22	A-4b (8)	
	667.6	W 667.6	4 4 5	13	100	SS-7	3.25	-	-	-	-	-	-	-	-	26	A-4b (V)	
DENSE, GRAY, **SANDY SILT**, SOME SAND, WET			6 15 15	43	100	SS-8	-	-	-	-	-	-	-	-	-	18	A-4a (V)	
	661.1	EOB	9 15 15	43	100	SS-9	-	-	-	-	-	-	-	-	-	13	A-4a (V)	

NOTES: BOREHOLE CAVED IN AT 10.3 FT BGS.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 5/1/26 10:10 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P 1253	69	105743	SDM 05/01/26	NMC	TRC
TOTAL P 1269	TOTAL 85				

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-051-0-20 & B-052-0-20

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:36:11 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZL009.dgn

Preliminary Plans - For Reference Only

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / DONOVAN | DRILL RIG: CME 45 TRACKED | STATION / OFFSET: 104+25, 68' RT. | EXPLORATION ID B-053-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / DONOVAN | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 8/5/20 | ELEVATION: 684.2 (ft) EOB: 25.0 ft. | PAGE 1 OF 1
START: 12/8/21 END: 12/8/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 89.3 | LAT / LONG: 41.445952, -81.653844

MATERIAL DESCRIPTION AND NOTES	ELEV. 684.2	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
TOPSOIL (6")	683.7																	
VERY STIFF, BROWN TO GRAY, **SILT**, "AND" CLAY, TRACE FINE SAND, MOIST			3 3 4	10	100	SS-1	-	-	-	-	-	-	-	-	-	19	A-4b (V)	
			4 4 5	13	100	SS-2	2.00	-	-	-	-	-	-	-	-	25	A-4b (V)	
			3 5 6	16	100	SS-3	2.75	0	0	1	54	45	25	19	6	21	A-4b (8)	
			4 4 7	16	100	SS-4	4.00	-	-	-	-	-	-	-	-	20	A-4b (V)	
			4 4 6	15	100	SS-5	3.50	0	0	0	62	38	23	18	5	22	A-4b (8)	
			5 4 8	18	100	SS-6	2.75	-	-	-	-	-	-	-	-	21	A-4b (V)	
	668.2	▼ 668.2																
VERY STIFF TO HARD, GRAY, **SANDY SILT**, SOME FINE SAND, DAMP			4 7 9	24	100	SS-7	-	-	-	-	-	-	-	-	-	21	A-4a (V)	
			7 10 13	34	100	SS-8	-	-	-	-	-	-	-	-	-	16	A-4a (V)	
	659.2	EOB	5 6 11	25	100	SS-9	-	-	-	-	-	-	-	-	-	25	A-4a (V)	

NOTES: BOREHOLE CAVED IN AT 12.5 FT BGS
ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / DONOVAN | DRILL RIG: CME 45 TRACKED | STATION / OFFSET: 106+00, 82' RT. | EXPLORATION ID B-054-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / DONOVAN | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 8/5/20 | ELEVATION: 681.2 (ft) EOB: 25.0 ft. | PAGE 1 OF 1
START: 12/8/21 END: 12/8/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 89.3 | LAT / LONG: 41.446344, -81.654205

MATERIAL DESCRIPTION AND NOTES	ELEV. 681.2	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
TOPSOIL (6")	680.7																	
DENSE, BROWN, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND**, BRICK FRAGMENTS, FILL, DAMP			7 10 11	31	67	SS-1	-	-	-	-	-	-	-	-	-	6	A-1-b (V)	
			7 12 9	31	100	SS-2	-	-	-	-	-	-	-	-	-	19	A-1-b (V)	
	675.2																	
HARD, BROWN AND GRAY, **SILT**, SOME CLAY, TRACE GRAVEL, TRACE SAND, DAMP TO MOIST			3 4 6	15	100	SS-3	>4.5	-	-	-	-	-	-	-	-	18	A-4b (V)	
@8.5' VERY STIFF			7 6 7	19	100	SS-4	3.50	-	-	-	-	-	-	-	-	20	A-4b (V)	
			4 6 6	18	100	SS-5	2.75	-	-	-	-	-	-	-	-	20	A-4b (V)	
					100	ST-6	-	2	0	2	61	35	26	20	6	20	A-4b (8)	
	666.7																	
MEDIUM DENSE, BROWN, **SANDY SILT**, WET		▼ 665.2	4 6 9	22	100	SS-7	-	-	-	-	-	-	-	-	-	21	A-4a (V)	
			7 7 12	28	100	SS-8	-	-	-	-	-	-	-	-	-	22	A-4a (V)	
	662.7																	
DENSE, BROWN, **COARSE AND FINE SAND**, SOME SILT, WET			7 9 13	33	100	SS-9	-	0	0	78	-	22 -	NP	NP	NP	20	A-3a (0)	
			8 9 14	34	100	SS-10	-	-	-	-	-	-	-	-	-	28	A-3a (V)	
	656.2	EOB																

NOTES: BOREHOLE CAVED IN AT 14.2 FT BGS. FINE CONTENT REPORTED AS SILT IN SS-8
ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 5/1/26 10:10 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

SHEET	TOTAL	SUBSET	TOTAL	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1254	P.1269	70	85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-053-0-20 & B-054-0-20

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:36:53 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZL010.dgn

Preliminary Plans - For Reference Only

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / DONOVAN | DRILL RIG: CME 45 TRACKED | STATION / OFFSET: 107+50, 103' RT. | EXPLORATION ID B-055-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / DONOVAN | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 8/5/20 | ELEVATION: 680.4 (ft) EOB: 25.0 ft. | PAGE 1 OF 1
START: 12/8/21 END: 12/8/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 89.3 | LAT / LONG: 41.446732, -81.654370

MATERIAL DESCRIPTION AND NOTES	ELEV. 680.4	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
TOPSOIL (6")	679.9																	
HARD, BROWN, **SANDY SILT**, FILL, DAMP	676.9		3 4 4	12	100	SS-1	>4.5	-	-	-	-	-	-	-	-	14	A-4a (V)	
STIFF TO VERY STIFF, GRAY, **SILT**, SOME CLAY, TRACE SAND, DAMP		W 674.4	5 4 4	12	100	SS-2	-	-	-	-	-	-	-	-	-	6	A-4b (V)	
			4 5 5	15	100	SS-3	2.25	0	0	1	73	26	20	19	1	22	A-4b (8)	
			4 6 6	18	100	SS-4	4.00	-	-	-	-	-	-	-	-	22	A-4b (V)	
			3 4 5	13	100	SS-5	1.25	-	-	-	-	-	-	-	-	24	A-4b (V)	
	664.4	▽ 664.4	4 5 7	18	100	SS-6	2.25	-	-	-	-	-	-	-	-	27	A-4b (V)	
MEDIUM DENSE, BROWN AND GRAY, **COARSE AND FINE SAND**, SOME SILT, TRACE GRAVEL, DAMP			6 9 10	28	100	SS-7	-	0	1	67	22	10	NP	NP	NP	21	A-3a (0)	
@18.5' DENSE			7 13 18	46	100	SS-8	-	-	-	-	-	-	-	-	-	15	A-3a (V)	
	655.4	EOB	7 12 19	46	100	SS-9	-	-	-	-	-	-	-	-	-	19	A-3a (V)	

NOTES: BOREHOLE CAVED IN AT 13.6 FT BGS.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / DONOVAN | DRILL RIG: CME 45 TRACKED | STATION / OFFSET: 109+50, 141' RT. | EXPLORATION ID B-056-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / DONOVAN | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 8/5/20 | ELEVATION: 684.0 (ft) EOB: 25.0 ft. | PAGE 1 OF 1
START: 12/8/21 END: 12/8/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 89.3 | LAT / LONG: 41.447223, -81.654614

MATERIAL DESCRIPTION AND NOTES	ELEV. 684.0	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
ASPHALT (2")	683.8																	
GRAY, **CONCRETE**, DRY	683.0																	
DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, SOME SILT, LITTLE CLAY, FILL, DAMP	680.5		12 14 10	36	56	SS-1	-	-	-	-	-	-	-	-	-	11	A-1-b (V)	
LOOSE, BROWN, **SANDY SILT**, SOME GRAVEL, LITTLE CLAY, DAMP		W 678.0	3 3 4	10	28	SS-2	-	29	12	22	26	11	NP	NP	NP	16	A-4a (0)	
			2 2 2	6	28	SS-3	-	-	-	-	-	-	-	-	-	11	A-4a (V)	
			2 2 2	6	33	SS-4	-	-	-	-	-	-	-	-	-	17	A-4a (V)	
	673.0																	
MEDIUM DENSE, GRAY, **SILT**, SOME CLAY, TRACE SAND, MOIST TO DAMP			3 4 4	12	100	SS-5	-	-	-	-	-	-	-	-	-	22	A-4b (V)	
			4 4 5	13	100	SS-6	-	0	0	1	68	31	21	21	NP	21	A-4b (8)	
		▽ 667.0	5 6 6	18	100	SS-7	-	-	-	-	-	-	-	-	-	21	A-4b (V)	
			5 6 7	19	100	SS-8	-	-	-	-	-	-	-	-	-	22	A-4b (V)	
	659.0	EOB	5 7 9	24	89	SS-9	-	-	-	-	-	-	-	-	-	22	A-4b (V)	

NOTES: BOREHOLE CAVED IN AT 16.9 FT BGS.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 5/1/26 10:10 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1255	71	105743	SDM 05/01/26	NMC	TRC
TOTAL P.1269	TOTAL 85				

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-055-0-20 & B-056-0-20

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:37:35 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZL011.dgn

Preliminary Plans - For Reference Only

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / JASON | DRILL RIG: CME 45 TRACKED | STATION / OFFSET: 122+00, 69' LT. | EXPLORATION ID B-059-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / DONOVAN | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 8/5/20 | ELEVATION: 661.2 (ft) EOB: 30.0 ft. | PAGE 1 OF 1
START: 12/9/21 END: 12/9/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 89.3 | LAT / LONG: 41.450204, -81.656910

MATERIAL DESCRIPTION AND NOTES	ELEV. 661.2	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
ASPHALT (12")	660.2																	
DENSE, BROWN, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND**, FILL, DAMP		1	17 10 14	36	56	SS-1	-	-	-	-	-	-	-	-	-	6	A-1-b (V)	
@3.5' VERY DENSE	655.2	4	12 18 22	60	100	SS-2	-	-	-	-	-	-	-	-	-	17	A-1-b (V)	
HARD, BROWN, **SANDY SILT**, SOME CLAY, TRACE GRAVEL, DAMP		7	6 5 5	15	100	SS-3	>4.5	3	3	26	48	20	18	15	3	12	A-4a (7)	
		9	7 8 8	24	100	SS-4	4.25	-	-	-	-	-	-	-	-	11	A-4a (V)	
@11.0' VERY STIFF		12	7 5 6	16	100	SS-5	-	-	-	-	-	-	-	-	-	15	A-4a (V)	
		14	6 8 10	27	100	SS-6	-	9	24	22	28	17	18	15	3	15	A-4a (2)	
@18.5' HARD		19	5 7 7	21	100	SS-7	>4.5	-	-	-	-	-	-	-	-	14	A-4a (V)	
	637.7																	
MEDIUM DENSE, BROWN AND GRAY, **SILT**, LITTLE CLAY, LITTLE SAND, TRACE GRAVEL, DAMP		24	3 4 6	15	100	SS-8	-	-	-	-	-	-	-	-	-	19	A-4b (V)	
	633.2 ▼																	
		29	4 4 7	16	89	SS-9	-	3	3	15	65	14	NP	NP	NP	30	A-4b (8)	
	631.2	EOB																

NOTES: BOREHOLE CAVED IN AT 21.4 FT BGS.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / JASON | DRILL RIG: CME 550X ATV | STATION / OFFSET: 129+30, 55' LT. | EXPLORATION ID B-060-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / JASON | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 10/19/21 | ELEVATION: 651.4 (ft) EOB: 30.0 ft. | PAGE 1 OF 1
START: 12/9/21 END: 12/9/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 85.6 | LAT / LONG: 41.452133, -81.657261

MATERIAL DESCRIPTION AND NOTES	ELEV. 651.4	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	BACK FILL
TOPSOIL (2")	651.2																	
VERY STIFF, BROWN TO GRAY, **SILT**, FILL, DAMP		3	3 5 7	17	72	SS-1	3.50	-	-	-	-	-	-	-	-	14	A-4b (V)	
@3.5' HARD		4	3 4 4	11	100	SS-2	4.50	-	-	-	-	-	-	-	-	14	A-4b (V)	
		6		0	ST-3			-	-	-	-	-	-	-	-	-	A-4b (V)	
	642.9																	
VERY STIFF, GRAY, **SANDY SILT**, FILL, DAMP		9	5 7 8	21	100	SS-4	-	-	-	-	-	-	-	-	-	15	A-4a (V)	
		12	5 4 5	13	100	SS-5	2.50	-	-	-	-	-	-	-	-	19	A-4a (V)	
	637.9																	
VERY DENSE, BROWN AND GRAY, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND**, CONCRETE FRAGMENTS, FILL, DAMP		14	21 23 14	53	78	SS-6	-	-	-	-	-	-	-	-	-	10	A-1-b (V)	
	635.4																	
VERY STIFF, BROWN AND GRAY, **SILT**, TRACE SAND, DAMP		17	19 7 5	17	28	SS-7	3.50	-	-	-	-	-	-	-	-	16	A-4b (V)	
	632.9																	
MEDIUM STIFF, BROWN AND GRAY, **SILT**, "AND" CLAY, TRACE SAND, DAMP		19	9 2 3	7	72	SS-8	1.00	0	0	1	59	40	22	19	3	28	A-4b (8)	
@23.5' HARD, OCCASIONAL COBBLES		24	28 50	-	0	SS-9	-	-	-	-	-	-	-	-	-	-	A-4b (V)	
		29	36 13 17	43	33	SS-10	-	-	-	-	-	-	-	-	-	17	A-4b (V)	
	621.4	EOB																

NOTES: BOREHOLE CAVED IN AT 12.8 FT BGS. FINE CONTENT REPORTED AS SILT IN SS-2
ABANDONMENT METHODS, MATERIALS, QUANTITIES: MIXED WITH BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 5/1/26 10:10 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1256	72	105743	SDM 05/01/26	NMC	TRC
TOTAL P.1269	TOTAL 85				

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-059-0-20 & B-060-0-20

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:38:18 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZL012.dgn

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / JASON | DRILL RIG: CME 550X ATV | STATION / OFFSET: 131+25, 53' LT. | EXPLORATION ID B-061-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / JASON | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 10/19/21 | ELEVATION: 650.6 (ft) EOB: 30.0 ft. | PAGE 1 OF 1
START: 12/9/21 END: 12/9/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 85.6 | LAT / LONG: 41.452751, -81.657304

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
TOPSOIL (3")	650.6																	
MEDIUM DENSE, BROWN, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND AND SILT**, FILL, DAMP	650.3	▽ 649.6	7 5 15	29	33	SS-1	-	-	-	-	-	-	-	-	-	14	A-2-4 (V)	
@2.5' COBBLES																		
@3.5' TRACE ORGANIC			11 7 6	19	28	SS-2	-	-	-	-	-	-	-	-	-	6	A-2-4 (V)	
LOOSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE SILT, TRACE CLAY, MOIST TO WET	644.6	W 644.6	4 2 2	6	72	SS-3	-	-	-	-	-	-	-	-	-	17	A-1-b (V)	
			3 2 2	6	67	SS-4	-	23	39	22	- 16 -		NP	NP	NP	17	A-1-b (0)	
@11.0' VERY LOOSE			2 1 1	3	100	SS-5	-	-	-	-	-	-	-	-	-	20	A-1-b (V)	
MEDIUM DENSE, BROWN, **FINE SAND**, LITTLE SILT, MOIST	637.1	F.S.	4 3 6	13	100	SS-6	-	-	-	-	-	-	-	-	-	14	A-3 (V)	
			4 6 4	14	89	SS-7	-	-	-	-	-	-	-	-	-	15	A-3 (V)	
LOOSE, BROWN, **COARSE AND FINE SAND**, WET	632.1		5 4 3	10	100	SS-8	-	-	-	-	-	-	-	-	-	19	A-3a (V)	
STIFF, BROWN AND GRAY, **SANDY SILT**, "AND" CLAY, TRACE FINE SAND, TRACE GRAVEL, DAMP	627.1		4 3 4	10	56	SS-9	2.00	1	0	1	48	50	25	18	7	25	A-4a (8)	
@28.5' VERY STIFF	620.6	EOB	6 7 12	27	39	SS-10	-	-	-	-	-	-	-	-	-	18	A-4a (V)	

NOTES: BOREHOLE CAVED IN AT 7.3 FT BGS. FINE CONTENT REPORTED AS SILT IN SS-4
ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

PROJECT: CUY-77-11.2 | DRILLING FIRM / OPERATOR: CTL / JASON | DRILL RIG: CME 550X ATV | STATION / OFFSET: 136+50, 107' LT. | EXPLORATION ID B-062-0-20
TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: CTL / JASON | HAMMER: AUTOMATIC HAMMER | ALIGNMENT: CL IR 77
PID: 105743 SFN: CUY-77-11.21 | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 10/19/21 | ELEVATION: 650.0 (ft) EOB: 25.0 ft. | PAGE 1 OF 1
START: 12/9/21 END: 12/9/21 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 85.6 | LAT / LONG: 41.454228, -81.657598

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
TOPSOIL (7")	650.0																	
VERY DENSE, BROWN GRAY, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND AND SILT**, SLAG, FILL, DRY	649.4		38 50/2"	-	125	SS-1	-	-	-	-	-	-	-	-	-	11	A-2-4 (V)	
DENSE, BROWN GRAY, **SANDY SILT**, FILL, DAMP	646.5		11 9 16	36	100	SS-2	-	-	-	-	-	-	-	-	-	12	A-4a (V)	
@8.5' MEDIUM DENSE			6 5 7	17	100	SS-3	-	-	-	-	-	-	-	-	-	14	A-4a (V)	
HARD, BROWN GRAY, **SANDY SILT**, "AND" CLAY, WET	636.5	W 635.0	6 5 8	19	100	SS-4	>4.5	0	1	4	44	51	32	23	9	19	A-4a (8)	
HARD, BROWN GRAY, **SILT**, "AND" CLAY, WET	631.5		17 12 16	40	100	SS-5	-	-	-	-	-	-	-	-	-	10	A-4b (V)	
	625.0	EOB	5 6 8	20	56	SS-6	>4.5	-	-	-	-	-	-	-	-	15	A-4b (V)	

NOTES: BOREHOLE CAVED IN AT 12.6 FT BGS.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 5/1/26 10:10 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1257	73	105743	SDM 05/01/26	NMC	TRC
TOTAL P.1269	TOTAL 85				

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-061-0-20 & B-062-0-20

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:39:01 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZL013.dgn

PROJECT: CUY-77-11.2	DRILLING FIRM / OPERATOR: CTL / DONOVAN	DRILL RIG: CME 45 TRACKED	STATION / OFFSET: 138+18, 154' LT.	EXPLORATION ID B-063-0-20
TYPE: RETAINING WALL	SAMPLING FIRM / LOGGER: CTL / DONOVAN	HAMMER: AUTOMATIC HAMMER	ALIGNMENT: CL IR 77	
PID: 105743 SFN: CUY-77-11.21	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/5/20	ELEVATION: 661.0 (ft) EOB: 30.0 ft.	PAGE 1 OF 1
START: 12/9/21 END: 12/9/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 89.3	LAT / LONG: 41.454629, -81.657604	

MATERIAL DESCRIPTION AND NOTES	ELEV. 661.0	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
TOPSOIL (6")	660.5																	
MEDIUM DENSE, BROWN, **SANDY SILT**, "AND" GRAVEL, FILL, DAMP		1–2	3 5 6	16	100	SS-1	-	-	-	-	-	-	-	-	-	18	A-4a (V)	
	657.5	3																
MEDIUM DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT**, SLAG, FILL, DAMP		4–5	7 6 7	19	100	SS-2	-	-	-	-	-	-	-	-	-	11	A-2-4 (V)	
	655.0																	
VERY STIFF, BROWN, **SANDY SILT**, LITTLE CLAY, TRACE GRAVEL, FILL, DAMP		6–7	3 4 7	16	100	SS-3	2.00	5	12	36	36	11	16	14	2	14	A-4a (2)	
		8																
		9–10	4 4 7	16	100	SS-4	-	-	-	-	-	-	-	-	-	15	A-4a (V)	
		11–12	3 3 4	10	100	SS-5	2.50	-	-	-	-	-	-	-	-	17	A-4a (V)	
@13.5' "AND" CLAY, FIINE SLAG, MOIST		13																
		14–15	4 3 5	12	100	SS-6	2.25	3	4	16	41	36	22	16	6	19	A-4a (8)	
		16–18																
	642.5																	
STIFF, BROWN AND GRAY, **SILT**, "AND" CLAY, FINE SLAG, WET		19–20	3 3 3	9	100	SS-7	1.25	-	-	-	-	-	-	-	-	31	A-4b (V)	
		21																
▽ 638.5 W 638.0		22–23																
		24–25	3 4 5	13	100	SS-8	1.50	0	0	0	59	41	23	20	3	28	A-4b (8)	
		26–28																
		29	4 4 5	13	100	SS-9	1.50	-	-	-	-	-	-	-	-	26	A-4b (V)	
	631.0	EOB																

NOTES: BOREHOLE CAVED IN AT 19.0 FT BGS.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 5/1/26 10:10 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

Preliminary Plans - For Reference Only

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1258 TOTAL P.1269	74 TOTAL 85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-063-0-20

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:39:28 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZL014.dgn

PROJECT: CUY-77-11.2	DRILLING FIRM / OPERATOR: CTL / DONOVAN	DRILL RIG: CME 45 TRACKED	STATION / OFFSET: 163+00, 52' LT.	EXPLORATION ID B-064-0-20
TYPE: RETAINING WALL	SAMPLING FIRM / LOGGER: CTL / DONOVAN	HAMMER: AUTOMATIC HAMMER	ALIGNMENT: CL IR 77	
PID: 105743 SFN: CUY-77-11.21	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/5/20	ELEVATION: 672.1 (ft) EOB: 35.0 ft.	PAGE 1 OF 1
START: 12/2/21 END: 12/2/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 89.3	LAT / LONG: 41.461446, -81.657368	

MATERIAL DESCRIPTION AND NOTES	ELEV. 672.1	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
GRAVEL	671.1																	
MEDIUM DENSE, BROWN, **GRAVEL AND/OR STONE FRAGMENTS**, SOME SAND, FILL, DRY	668.6		7 8 10	27	100	SS-1	-	-	-	-	-	-	-	-	-	14	A-1-a (V)	
MEDIUM DENSE, BROWN, **SANDY SILT**, SOME CLAY, TRACE GRAVEL, DRY			5 6 8	21	100	SS-2	-	0	3	45	- 52 -		NP	NP	NP	14	A-4 (3)	
			7 8 8	24	100	SS-3	-	-	-	-	-	-	-	-	-	15	A-4a (V)	
			4 4 6	15	100	SS-4	-	-	-	-	-	-	-	-	-	8	A-4a (V)	
@11.0' LOOSE	658.6		3 3 4	10	89	SS-5	-	-	-	-	-	-	-	-	-	12	A-4a (V)	
VERY LOOSE TO LOOSE, GRAY, **COARSE AND FINE SAND**, SOME GRAVEL, LITTLE CLAY, LITTLE SILT, FILL, WET			2 2 3	7	67	SS-6	-	27	34	25	- 14 -		NP	NP	NP	20	A-3a (0)	
		▽ 656.1	6 1 1	3	11	SS-7	-	-	-	-	-	-	-	-	-	17	A-3a (V)	
@18.5' MEDIUM DENSE	651.1	W 654.1	6 4 8	18	67	SS-8	-	-	-	-	-	-	-	-	-	29	A-3a (V)	
MEDIUM DENSE TO DENSE, GRAY, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND AND SILT**, SLAG, FILL, WET			7 12 10	33	78	SS-9	-	-	-	-	-	-	-	-	-	18	A-2-4 (V)	
			12 4 9	19	56	SS-10	-	-	-	-	-	-	-	-	-	14	A-2-4 (V)	
@26.0' VERY DENSE			7 5 31	54	78	SS-11	-	-	-	-	-	-	-	-	-	21	A-2-4 (V)	
@28.5' MEDIUM DENSE			7 8 12	30	78	SS-12	-	25	9	39	- 27 -		NP	NP	NP	18	A-2-4 (0)	
	637.1	EOB	4 9 11	30	100	SS-13	-	-	-	-	-	-	-	-	-	21	A-2-4 (V)	

NOTES: BOREHOLE CAVED IN AT 14.2 FT BGS.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 15:02 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

SHEET	TOTAL	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P 1259	P 1269	75 / 85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-064-0-20

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:40:51 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZL015.dgn

PROJECT: CUY-77-11.2
TYPE: RETAINING WALL
PID: 105743 SFN: CUY-77-11.21
START: 12/2/21 END: 12/2/21

DRILLING FIRM / OPERATOR: CTL / DONOVAN
SAMPLING FIRM / LOGGER: CTL / DONOVAN
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME 45 TRACKED
HAMMER: AUTOMATIC HAMMER
CALIBRATION DATE: 8/5/20
ENERGY RATIO (%): 89.3

STATION / OFFSET: 165+00, 50' LT.
ALIGNMENT: CL IR 77
ELEVATION: 667.1 (ft) EOB: 35.0 ft.
LAT / LONG: 41.461975, -81.657453

EXPLORATION ID B-065-0-20

PAGE 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
VERY DENSE, DARK BROWN, **GRAVEL AND/OR STONE FRAGMENTS**, SOME SAND, TRACE SILT, TRACE CLAY, FILL, MOIST	667.1		12 14 21	52	100	SS-1	-	69	19	9	- 3 -		NP	NP	NP	11	A-1-a (0)	
@3.5' MEDIUM DENSE			8 7 9	24	78	SS-2	-	-	-	-	-	-	-	-	-	2	A-1-a (V)	
STIFF, BROWN, **SANDY SILT**, FILL, DRY	661.1		8 5 4	13	100	SS-3	-	-	-	-	-	-	-	-	-	6	A-4a (V)	
			2 3 4	10	100	SS-4	-	-	-	-	-	-	-	-	-	12	A-4a (V)	
MEDIUM DENSE, BROWN, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND**, SOME SILT SEAM, FILL, DAMP	656.1		8 6 13	28	100	SS-5	-	-	-	-	-	-	-	-	-	10	A-1-b (V)	
@13.5' LOOSE			17 2 3	7	17	SS-6	-	-	-	-	-	-	-	-	-	17	A-1-b (V)	
STIFF, BROWN AND DARK GRAY, **SANDY SILT**, SOME CLAY, TRACE GRAVEL,WITH BRICK FRAGMENTS, FILL, DAMP	651.1		2 3 4	10	100	SS-7	-	-	-	-	-	-	-	-	-	16	A-4a (V)	
			3 4 4	12	100	SS-8	-	5	8	21	- 66 -		22	19	3	17	A-4a (6)	
		▽ 646.5 W 646.1	5 4 4	12	100	SS-9	-	-	-	-	-	-	-	-	-	23	A-4a (V)	
@23.5' "AND" CLAY			3 4 6	15	100	SS-10	-	1	15	14	- 70 -		24	18	6	17	A-4a (7)	
			4 3 7	15	100	SS-11	-	-	-	-	-	-	-	-	-	14	A-4a (V)	
			4 4 4	12	100	SS-12	-	-	-	-	-	-	-	-	-	18	A-4a (V)	
@33.5' VERY STIFF	632.1	EOB	4 7 10	25	100	SS-13	-	-	-	-	-	-	-	-	-	-	A-4a (V)	

NOTES: BOREHOLE CAVED IN AT 17.5 FT BGS.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 15:02 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

SHEET	TOTAL	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1260	P.1269	76 / 85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-065-0-20

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:41:45 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZL016.dgn

PROJECT: CUY-77-11.2	DRILLING FIRM / OPERATOR: CTL / DONOVAN	DRILL RIG: CME 45 TRACKED	STATION / OFFSET: 167+00, 48' LT.	EXPLORATION ID B-066-0-20
TYPE: RETAINING WALL	SAMPLING FIRM / LOGGER: CTL / DONOVAN	HAMMER: AUTOMATIC HAMMER	ALIGNMENT: CL IR 77	
PID: 105743 SFN: CUY-77-11.21	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/5/20	ELEVATION: 662.1 (ft) EOB: 40.0 ft.	PAGE 1 OF 1
START: 12/2/21 END: 12/2/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 89.3	LAT / LONG: 41.462524, -81.657512	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
GRAVEL, FILL	662.1																	
	661.1																	
MEDIUM DENSE TO DENSE, BROWN, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND**, FILL, MOIST		1	3 4 7	16	100	SS-1	-	-	-	-	-	-	-	-	-	15	A-1-b (V)	
		2																
		3																
		4	12 7 8	22	78	SS-2	-	-	-	-	-	-	-	-	-	12	A-1-b (V)	
		5																
		6																
		7	12 8 14	33	78	SS-3	-	-	-	-	-	-	-	-	-	13	A-1-b (V)	
		8																
		9	12 5 7	18	67	SS-4	-	-	-	-	-	-	-	-	-	8	A-1-b (V)	
		10																
	651.1																	
LOOSE TO MEDIUM DENSE, BROWN, **COARSE AND FINE SAND**, TRACE GRAVEL, TRACE SILT, DAMP		11	3 3 4	10	100	SS-5	-	-	-	-	-	-	-	-	-	11	A-3a (V)	
		12																
		13																
		14	3 3 3	9	100	SS-6	-	0	6	70	- 24 -		NP	NP	NP	9	A-3a (0)	
		15																
		16																
		17	3 2 4	9	100	SS-7	-	-	-	-	-	-	-	-	-	9	A-3a (V)	
		18																
		19	3 4 3	10	67	SS-8	-	-	-	-	-	-	-	-	-	10	A-3a (V)	
		20																
		21																
		22	3 3 3	9	100	SS-9	-	-	-	-	-	-	-	-	-	6	A-3a (V)	
		23																
		24	3 4 3	10	100	SS-10	-	-	-	-	-	-	-	-	-	9	A-3a (V)	
	▽ 636.8	25																
	W 636.1																	
		26	3 4 6	15	100	SS-11	-	0	11	79	- 10 -		NP	NP	NP	19	A-3a (0)	
		27																
		28																
		29	3 4 8	18	100	SS-12	-	-	-	-	-	-	-	-	-	17	A-3a (V)	
		30																
	631.1																	
VERY STIFF TO HARD, GRAY, **SANDY SILT**, WET		31	3 4 6	15	100	SS-13	-	-	-	-	-	-	-	-	-	23	A-4a (V)	
		32																
		33																
		34	4 4 4	12	100	SS-14	3.75	-	-	-	-	-	-	-	-	17	A-4a (V)	
		35																
		36																
		37	3 5 6	16	100	SS-15	4.50	-	-	-	-	-	-	-	-	20	A-4a (V)	
		38																
		39																
	622.1		4 3 7	15	100	SS-16	3.75	-	-	-	-	-	-	-	-	13	A-4a (V)	
	EOB	40																

NOTES: BOREHOLE CAVED IN AT 16.9 FT BGS. FINE CONTENT REPORTED AS SILT IN SS-6 & SS-11

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 15:02 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1261	77	105743	SDM 05/01/26	NMC	TRC
TOTAL P.1269	TOTAL 85				

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-066-0-20

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:42:52 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZL017.dgn

PROJECT: CUY-77-11.2
TYPE: RETAINING WALL
PID: 105743 SFN: CUY-77-11.21
START: 12/14/21 END: 12/14/21

DRILLING FIRM / OPERATOR: CTL / JASON
SAMPLING FIRM / LOGGER: CTL / KENTON F.
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME 550X ATV
HAMMER: AUTOMATIC HAMMER
CALIBRATION DATE: 10/19/21
ENERGY RATIO (%): 85.6

STATION / OFFSET: 169+00, 48' LT.
ALIGNMENT: CL IR 77
ELEVATION: 657.2 (ft) EOB: 50.0 ft.
LAT / LONG: 41.463050, -81.657630

EXPLORATION ID B-067-0-20
PAGE 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV. 657.2	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
MEDIUM DENSE, BLACK AND BROWN, **GRAVEL**, DRY		1	4 4 5	13	75	SS-1	-	-	-	-	-	-	-	-	-	12	A-1-a (V)	
	653.7	2																
HARD, BROWN, **SILT**, TRACE FINE SAND, DRY		3	17 9 6	21	75	SS-2	>4.5	-	-	-	-	-	-	-	-	21	A-4b (V)	
	651.2	4																
LOOSE, GRAY, **COARSE AND FINE SAND**, SOME SILT, TRACE CLAY, TRACE GRAVEL, DAMP		5	3 3 4	10	75	SS-3	-	-	-	-	-	-	-	-	-	10	A-3a (V)	
		6																
		7	3 3 3	9	75	SS-4	-	3	8	68	- 21 -		NP	NP	NP	10	A-3a (0)	
		8																
		9	2 3 3	9	100	SS-5	-	-	-	-	-	-	-	-	-	10	A-3a (V)	
	643.7	10																
STIFF TO VERY STIFF, BROWN, **SILT**, SOME CLAY, TRACE GRAVEL, TRACE SAND, MOIST		11	3 3 3	9	50	SS-6	-	-	-	-	-	-	-	-	-	21	A-4b (V)	
		12																
		13	3 4 3	10	75	SS-7	3.00	-	-	-	-	-	-	-	-	20	A-4b (V)	
		14																
		15			81	ST-8	-	0	1	2	70	27	26	19	7	22	A-4b (8)	
		16																
@21.0' HARD		17	4 8 9	24	100	SS-9	>4.5	-	-	-	-	-	-	-	-	21	A-4b (V)	
		18																
@23.5' STIFF		19	3 4 5	13	100	SS-10	2.00	-	-	-	-	-	-	-	-	24	A-4b (V)	
		20																
	628.7	21																
MEDIUM DENSE, BROWN, **SILT**, LITTLE CLAY, LITTLE SAND, MOIST		22	3 4 7	16	100	SS-11	-	0	0	12	78	10	NP	NP	NP	22	A-4b (8)	
		23																
		24	4 4 5	13	100	SS-12	-	-	-	-	-	-	-	-	-	25	A-4b (V)	
	618.7	25																
STIFF TO VERY STIFF, GRAY, **SANDY SILT**, MOIST		26	3 5 4	13	100	SS-13	1.75	-	-	-	-	-	-	-	-	25	A-4a (V)	
		27																
		28																
		29	6 6 8	20	100	SS-14	2.00	-	-	-	-	-	-	-	-	22	A-4a (V)	
		30																
		31																
		32	5 7 10	24	100	SS-15	3.75	-	-	-	-	-	-	-	-	23	A-4a (V)	
	607.2	33	EOB															

NOTES: FINE CONTENT REPORTED AS SILT IN SS-4

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 15:02 - W:\ODOT\301525 CUY-77-11.41 PID 105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1262 TOTAL P.1269	78 TOTAL 85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-067-0-20

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:43:36 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZL018.dgn

PROJECT: CUY-77-11.2
TYPE: RETAINING WALL
PID: 105743 SFN: CUY-77-11.21
START: 12/14/21 END: 12/14/21

DRILLING FIRM / OPERATOR: CTL / JASON
SAMPLING FIRM / LOGGER: CTL / KENTON F.
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME 550X ATV
HAMMER: AUTOMATIC HAMMER
CALIBRATION DATE: 10/19/21
ENERGY RATIO (%): 85.6

STATION / OFFSET: 172+00, 48' LT.
ALIGNMENT: CL IR 77
ELEVATION: 662.0 (ft) EOB: 60.0 ft.
LAT / LONG: 41.464014, -81.657974

EXPLORATION ID B-068-0-20

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
VERY LOOSE, BLACK, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND AND SILT**, SLAG, FILL, DRY	662.0	1	2 2 1	4	5	SS-1	-	23	16	32	- 29 -		NP	NP	NP	11	A-2-4 (0)	
		4	2 2 1	4	20	SS-2	-	-	-	-	-	-	-	-	-	12	A-2-4 (V)	
LOOSE TO MEDIUM DENSE, BROWN, **SILT**, TRACE CLAY, "AND" COARSE TO FINE SAND, TRACE GRAVEL, DRY	656.0	7	4 3 4	10	75	SS-3	-	-	-	-	-	-	-	-	-	4	A-4b (V)	
		9	3 3 3	9	75	SS-4	-	1	0	36	- 63 -		NP	NP	NP	17	A-4b (6)	
		12	4 4 5	13	75	SS-5	-	-	-	-	-	-	-	-	-	6	A-4b (V)	
	646.0	14	4 4 4	11	100	SS-6	-	-	-	-	-	-	-	-	-	20	A-4b (V)	
VERY STIFF TO HARD, GRAY, **SILT**, LITTLE CLAY, LITTLE SAND, DAMP		17	2 5 6	16	80	SS-7	-	-	-	-	-	-	-	-	-	21	A-4b (V)	
		19	8 12 15	39	70	SS-8	-	-	-	-	-	-	-	-	-	9	A-4b (V)	
		24	6 7 9	23	100	SS-9	>4.5	0	0	11	69	20	20	18	2	14	A-4b (8)	
		29	8 11 12	33	100	SS-10	>4.5	-	-	-	-	-	-	-	-	13	A-4b (V)	
		34	9 10 11	30	50	SS-11	>4.5	-	-	-	-	-	-	-	-	16	A-4b (V)	
	618.5	39	10 7 9	23	100	SS-12	3.50	0	0	1	68	31	22	20	2	20	A-4b (8)	
STIFF TO VERY STIFF, GRAY, **SANDY SILT**, DAMP TO MOIST		44	5 6 8	20	100	SS-13	3.00	-	-	-	-	-	-	-	-	24	A-4a (V)	
		49	5 7 8	21	100	SS-14	2.25	-	-	-	-	-	-	-	-	25	A-4a (V)	
		54	4 6 7	19	100	SS-15	1.50	-	-	-	-	-	-	-	-	24	A-4a (V)	
	602.0	59	6 8 11	27	100	SS-16	3.25	-	-	-	-	-	-	-	-	20	A-4a (V)	
		EOB																

NOTES: FINE CONTENT REPORTED AS SILT IN SS-1

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 15:02 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-068-0-20

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:44:21 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZL019.dgn

PROJECT: CUY-77-11.2
TYPE: RETAINING WALL
PID: 105743 SFN: CUY-77-11.21
START: 12/15/21 END: 12/15/21

DRILLING FIRM / OPERATOR: CTL / JASON
SAMPLING FIRM / LOGGER: CTL / KENTON F.
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME 550X ATV
HAMMER: AUTOMATIC HAMMER
CALIBRATION DATE: 10/19/21
ENERGY RATIO (%): 85.6

STATION / OFFSET: 170+75, 64' LT.
ALIGNMENT: CL IR 77
ELEVATION: 656.8 (ft) EOB: 110.0 ft.
LAT / LONG: 41.468506, -81.659955

EXPLORATION ID B-070-0-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 656.8	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
DENSE, BLACK, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND AND SILT**, LITTLE SILT, SLAG, FILL, DAMP		1	15 14 15	41	100	SS-1	-	-	-	-	-	-	-	-	-	12	A-2-4 (V)	
@3.5' MEDIUM DENSE		4	9 8 5	19	50	SS-2	-	-	-	-	-	-	-	-	-	11	A-2-4 (V)	
		7	9 9 3	17	33	SS-3	-	35	11	39	- 15 -		NP	NP	NP	11	A-2-4 (0)	
	648.3																	
SOFT, BROWN, **SANDY SILT**, MOIST		9	3 1 1	3	100	SS-4	-	-	-	-	-	-	-	-	-	36	A-4a (V)	
@11.0' VERY STIFF		12	4 7 7	20	70	SS-5	-	-	-	-	-	-	-	-	-	19	A-4a (V)	
	643.3	13																
STIFF TO VERY STIFF, GRAY, **SILT**, SOME CLAY, TRACE SAND, MOIST		14	7 7 11	26	70	SS-6	1.50	-	-	-	-	-	-	-	-	18	A-4b (V)	
		17	4 3 3	9	100	SS-7	2.00	0	0	1	70	29	22	20	2	23	A-4b (8)	
		19	3 3 4	10	75	SS-8	3-3.25	-	-	-	-	-	-	-	-	22	A-4b (V)	
@21.0' LITTLE CLAY		22			100	ST-9	-	0	0	1	80	19	22	19	3	20	A-4b (8)	
		24	3 7 6	19	100	SS-10	3.50	-	-	-	-	-	-	-	-	21	A-4b (V)	
		29	3 4 6	14	100	SS-11	2.75	-	-	-	-	-	-	-	-	21	A-4b (V)	
		32			100	ST-12	-	0	0	0	80	20	25	21	4	26	A-4b (8)	
		34	2 3 3	9	100	SS-13	1.25	-	-	-	-	-	-	-	-	27	A-4b (V)	
		39			100	ST-14	-	0	0	1	62	37	29	20	9	23	A-4b (8)	
@43.5' SOFT		44	3 6 7	19	100	SS-15	0.25	-	-	-	-	-	-	-	-	19	A-4b (V)	
@48.5' STIFF		49	4 7 6	19	100	SS-16	1.50	-	-	-	-	-	-	-	-	19	A-4b (V)	
@53.5' MEDIUM STIFF		54	4 5 6	16	100	SS-17	0.50	-	-	-	-	-	-	-	-	19	A-4b (V)	
@58.5' STIFF, "AND" CLAY		59	4 6 8	20	100	SS-18	1-1.5	0	0	0	60	40	24	19	5	20	A-4b (8)	

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 15:02 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-070-0-20

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:45:09 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZL020.dgn

PID: 105743	SFN: CUY-77-11.21	PROJECT: CUY-77-11.2	STATION / OFFSET: 170+75, 64' LT.	START: 12/15/21	END: 12/15/21	PG 2 OF 2	B-070-0-20

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
STIFF TO VERY STIFF, GRAY, **SILT**, SOME CLAY, TRACE SAND, MOIST *(continued)*	596.8	61																
		62																
		63																
		64	4 4 6	14	100	SS-19	1.5-2	-	-	-	-	-	22	20	2	21	A-4b (V)	
		65																
		66																
		67																
		68																
		69	4 5 6	16	100	SS-20	1-1.5	-	-	-	-	-	-	-	-	18	A-4b (V)	
		70																
		71																
		72																
		73																
		74	3 5 7	17	100	SS-21	1-2.5	-	-	-	-	-	-	-	-	27	A-4b (V)	
		75																
		76																
		77																
		78																
		79	4 7 7	20	100	SS-22	1.50	-	-	-	-	-	-	-	-	25	A-4b (V)	
		80																
		81																
		82																
		83																
		84	4 5 6	16	100	SS-23	1.50	-	-	-	-	-	-	-	-	26	A-4b (V)	
		85																
		86																
		87																
		88																
STIFF, GRAY, **SANDY SILT**, "AND" CLAY, TRACE GRAVEL, MOIST	568.3	89	3 3 6	13	100	SS-24	1-1.5	1	2	3	40	54	29	19	10	23	A-4a (8)	
		90																
		91																
		92																
		93																
		94	1 3 6	13	100	SS-25	1-1.5	-	-	-	-	-	-	-	-	22	A-4a (V)	
		95																
		96																
		97																
		98																
		99	3 4 7	16	100	SS-26	1-1.5	-	-	-	-	-	-	-	-	23	A-4a (V)	
		100																
		101																
		102																
		103																
		104	3 4 6	14	100	SS-27	1-1.5	-	-	-	-	-	-	-	-	22	A-4a (V)	
		105																
		106																
		107																
		108																
	546.8	109	3 4 8	17	100	SS-28	1-1.5	-	-	-	-	-	-	-	-	21	A-4a (V)	
		EOB 110																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 15:02 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1265 TOTAL P.1269	81 TOTAL 85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-070-0-20 (CONT.)

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:45:52 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZL021.dgn

PROJECT: CUY-77-11.2
TYPE: RETAINING WALL
PID: 105743 SFN: CUY-77-11.21
START: 12/17/21 END: 12/17/21

DRILLING FIRM / OPERATOR: CTL / JASON
SAMPLING FIRM / LOGGER: CTL / KENTON F.
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME 550X ATV
HAMMER: AUTOMATIC HAMMER
CALIBRATION DATE: 10/19/21
ENERGY RATIO (%): 85.6

STATION / OFFSET: 170+00, 64' RT.
ALIGNMENT: CL IR 77
ELEVATION: 654.4 (ft) EOB: 110.0 ft.
LAT / LONG: 41.463548, -81.657747

EXPLORATION ID B-071-0-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 654.4	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
MEDIUM DENSE, BLACK, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE SILT, SLAG, FILL, DRY		1–3	15 6 8	20	33	SS-1	-	64	16	11	-	9 -	NP	NP	NP	9	A-1-b (0)	
	650.9																	
MEDIUM DENSE, BROWN, **FINE SAND**, LITTLE SILT, DAMP	F S	4–5	5 10 9	27	75	SS-2	-	-	-	-	-	-	-	-	-	9	A-3 (V)	
	648.4																	
MEDIUM DENSE, DARK BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT**, DAMP		6–8	4 6 5	16	5	SS-3	-	-	-	-	-	-	-	-	-	13	A-2-4 (V)	
	645.9																	
LOOSE TO MEDIUM DENSE, BROWN, **SILT**, LITTLE CLAY, TRACE FINE SAND, MOIST TO DAMP		9–10	2 2 3	7	50	SS-4	-	-	-	-	-	-	-	-	-	21	A-4b (V)	
		11–12	2 6 10	23	80	SS-5	-	-	-	-	-	-	-	-	-	21	A-4b (V)	
@13.5' DENSE		14–15	10 14 14	40	75	SS-6	-	-	-	-	-	-	-	-	-	16	A-4b (V)	
@16.0' MEDIUM DENSE		17–18	8 8 9	24	100	SS-7	-	-	-	-	-	-	-	-	-	18	A-4b (V)	
		19–20	3 5 10	21	100	SS-8	-	0	0	2	79	19	19	19	NP	19	A-4b (8)	
	633.4																	
VERY STIFF, GRAY, **SILT**, SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST		22–23	6 6 7	19	100	SS-9	3.50	-	-	-	-	-	-	-	-	17	A-4b (V)	
		24–25	6 8 7	21	100	SS-10	3.50	-	-	-	-	-	-	-	-	18	A-4b (V)	
		27–28			100	ST-11	-	0	1	3	69	27	23	19	4	19	A-4b (8)	
		29–30	3 4 5	13	100	SS-12	3.50	0	0	1	67	32	21	19	2	22	A-4b (8)	
		34–35	4 7 6	19	100	SS-13	3.50	-	-	-	-	-	-	-	-	20	A-4b (V)	
		37–38			100	ST-14	-	0	0	1	77	22	22	19	3	23	A-4b (8)	
@38.5' STIFF, "AND" CLAY		39–40	2 2 4	9	100	SS-15	2.00	0	0	0	50	50	25	19	6	26	A-4b (8)	
	613.4																	
GRAY, **SILT AND CLAY**, TRACE FINE SAND		42–43			100	ST-16	-	0	0	0	68	32	33	21	12	26	A-6a (9)	
	610.9																	
STIFF TO VERY STIFF, GRAY, **SILT**, "AND" CLAY, MOIST TO DAMP		44–45	3 3 4	10	100	SS-17	1.5-2	-	-	-	-	-	-	-	-	22	A-4b (V)	
		49–50	4 3 6	13	100	SS-18	1.50	-	-	-	-	-	-	-	-	22	A-4b (V)	
		54–55	4 6 7	19	100	SS-19	3.00	-	-	-	-	-	-	-	-	20	A-4b (V)	
		59–60	2 4 5	13	100	SS-20	2.00	0	0	0	59	41	27	20	7	25	A-4b (8)	

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 15:02 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1266	82	105743	SDM 05/01/26	NMC	TRC
TOTAL P.1269	TOTAL 85				

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-071-0-20

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:46:35 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZL022.dgn

PID: 105743 | SFN: CUY-77-11.21 | PROJECT: CUY-77-11.2 | STATION / OFFSET: 170+00, 64' RT. | START: 12/17/21 | END: 12/17/21 | PG 2 OF 2 | B-071-0-20

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
STIFF TO VERY STIFF, GRAY, **SILT**, "AND" CLAY, MOIST TO DAMP *(continued)*	594.4	61																
		62																
		63																
@63.5' MEDIUM STIFF		64	2 3 5	11	100	SS-21	0.5-1	-	-	-	-	-	-	-	-	24	A-4b (V)	
		65																
		66																
		67																
		68																
		69	3 4 7	16	100	SS-22	1.00	-	-	-	-	-	-	-	-	25	A-4b (V)	
		70																
		71																
		72																
		73																
@73.5' VERY STIFF		74	3 4 6	14	100	SS-23	2.50	0	0	1	65	34	23	21	2	19	A-4b (8)	
		75																
		76																
		77																
		78																
@78.5' STIFF		79	5 5 8	19	100	SS-24	1.25	0	0	1	34	65	-	-	-	17	A-4b (V)	
		80																
		81																
		82																
		83																
		84	3 4 6	14	100	SS-25	1.50	-	-	-	-	-	-	-	-	25	A-4b (V)	
		85																
		86																
		87																
		88																
		89	3 4 7	16	100	SS-26	1.50	-	-	-	-	-	-	-	-	22	A-4b (V)	
		90																
		91																
		92																
		93																
		94	3 8 6	20	100	SS-27	1.50	-	-	-	-	-	-	-	-	24	A-4b (V)	
		95																
		96																
		97																
		98																
		99	4 4 7	16	100	SS-28	1.50	-	-	-	-	-	-	-	-	22	A-4b (V)	
		100																
		101																
		102																
		103																
		104	3 6 9	21	100	SS-29	1.5-2	-	-	-	-	-	-	-	-	21	A-4b (V)	
		105																
		106																
		107																
		108																
		109	3 4 6	14	100	SS-30	1.00	-	-	-	-	-	-	-	-	21	A-4b (V)	
	544.4	EOB 110																

Preliminary Plans - For Reference Only

NOTES: FINE CONTENT REPORTED AS SILT IN SS-1

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 15:02 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P 1267 / P 1269 TOTAL	83 / 85 TOTAL	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-071-0-20 (CONT.)

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:47:18 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZL023.dgn

PROJECT: CUY-77-11.2	DRILLING FIRM / OPERATOR: CTL / JASON	DRILL RIG: CME 550X ATV	STATION / OFFSET: 181+50, 150' LT.	EXPLORATION ID B-072-0-20
TYPE: RETAINING WALL	SAMPLING FIRM / LOGGER: CTL / KENTON F.	HAMMER: AUTOMATIC HAMMER	ALIGNMENT: CL IR 77	
PID: 105743 SFN: CUY-77-11.21	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/19/21	ELEVATION: 656.6 (ft) EOB: 25.0 ft.	PAGE 1 OF 1
START: 12/1/21 END: 12/1/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 85.6	LAT / LONG: 41.463258, -81.656963	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
TOPSOIL (4")	656.6																	
VERY STIFF TO HARD, BROWN TO BLACK, **SANDY SILT**, SLAG, ROCK FRAGMENTS, FILL, DRY	656.2		4 8 10	26	75	SS-1	-	-	-	-	-	-	-	-	-	-	A-4a (V)	
			15 14 11	36	100	SS-2	-	-	-	-	-	-	-	-	-	9	A-4a (V)	
			32 18 22	57	25	SS-3	-	-	-	-	-	-	-	-	-	19	A-4a (V)	
			60/2"	-	5	SS-4	-	-	-	-	-	-	-	-	-	19	A-4a (V)	
	641.6																	
VERY DENSE, GRAY, **FINE SAND**, SOME SILT, MOIST TO WET		▽ 640.6																
F.S.			13 24 23	67	100	SS-5	-	0	1	75	-	24 -	NP	NP	NP	17	A-3 (0)	
VERY DENSE, GRAY, **COARSE AND FINE SAND**, SOME SILT, MOIST TO WET	631.6	EOB	9 20 24	63	100	SS-6	-	-	-	-	-	-	-	-	-	21	A-3a (V)	

NOTES: FINE CONTENT REPORTED AS SILT IN SS-5

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH BENTONITE GROUT

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 15:02 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1268	84	105743	SDM 05/01/26	NMC	TRC
TOTAL P.1269	TOTAL 85				

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-072-0-20

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/4/2026 TIME: 11:48:17 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Geotechnical\Sheets\105743_ZL024.dgn

PROJECT: CUY-77-11.2
TYPE: RETAINING WALL
PID: 105743 SFN: CUY-77-11.21
START: 12/1/21 END: 12/1/21

DRILLING FIRM / OPERATOR: CTL / JASON
SAMPLING FIRM / LOGGER: CTL / KENTON F.
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME 550X ATV
HAMMER: AUTOMATIC HAMMER
CALIBRATION DATE: 10/19/21
ENERGY RATIO (%): 85.6

STATION / OFFSET: 190+00, 150' LT.
ALIGNMENT: CL IR 77
ELEVATION: 656.6 (ft) EOB: 25.0 ft.
LAT / LONG: 41.466303, -81.658850

EXPLORATION ID B-073-0-20
PAGE 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV. 656.6	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	BACK FILL
TOPSOIL (4")	656.2																	
STIFF, DARK BROWN, **SILT**, "AND" SAND, DAMP	653.1	1–3	3 3 5	11	100	SS-1	1.50	-	-	-	-	-	-	-	-	-	A-4b (V)	
DENSE, BROWN, **SANDY SILT**, TRACE CLAY, TRACE GRAVEL, MOIST TO WET	638.1	4–8	15 13 19	46	100	SS-2	-	3	13	41	- 43 -		NP	NP	NP	11	A-4a (2)	
		9–13	8 14 18	46	100	SS-3	-	-	-	-	-	-	-	-	-	9	A-4a (V)	
		14–18	8 10 12	31	50	SS-4	-	-	-	-	-	-	-	-	-	23	A-4a (V)	
VERY DENSE, BROWN, **COARSE AND FINE SAND**, SOME SILT, DAMP	631.6	19–23	8 20 23	61	75	SS-5	-	0	0	66	- 34 -		NP	NP	NP	24	A-3a (0)	
EOB		24–25	14 18 28	66	100	SS-6	-	-	-	-	-	-	-	-	-	18	A-3a (V)	

NOTES: FINE CONTENT REPORTED AS SILT IN SS-1 & SS-5

ABANDONMENT METHODS, MATERIALS, QUANTITIES: MIXED WITH BENTONITE CHIPS

Preliminary Plans - For Reference Only

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 4/23/26 15:02 - W:\ODOT\301525_CUY-77-11.41_PID_105743\GEOTECHNICAL\TRC LOGS\CUY LOGS-11_8_2023.GPJ

SHEET	SUBSET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
P.1269 TOTAL P.1269	85 TOTAL 85	105743	SDM 05/01/26	NMC	TRC

GEOTECHNICAL PROFILE - ROADWAY
CUY-77-11.21
BORING LOG FOR B-073-0-20