STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

add IR as the project name is to match ELLIS

HAM-75-1.95

CITY OF CINCINNATI

HAMILTON COUNTY



LOCATION MAP

LATITUDE: 39°07'30" N LONGITUDE: 84°32'10" W

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

DESIGN DESIGNATION

SEE SHEET P.2

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

INDEX OF SHEETS:

SEE SHEET P.2

Highlight equals reviewed

Note to designers: orange text comments are for internal reviewer use only. I've responded to orange comments but left them shown for clarity.

comments were made on the drainage report

Comments were made on the Conceptual MOT Plan and on the Local Roads MOTAA.

REVIEW COMPLETE

PM	
BRIDGES	
CONSTRUCT	Chris Tuminello, P.E., 07/03/2024
DRAINAGE	Tami Brehm, P.E. 08/27/2024
ENVIRON	L. Keith Smith, P.E. 07/16/2024
GEOTECH	Benjamin Peters, E.I. 09/13/2024
ITS	B. Comer, 8/23/2024
MOT	Scott Kraus, P.E., 09/13/2024
PAVEMENT	Jennifer Elston, 08/24/2024
ROADWAY	John Otis, P.E. 09/04/2024
R/W	
SURVEY	
TRAFFIC	Teri C. Scanlon, P.E. 08/19/2024
UTILITIES	Lucas W. Braun, P.E. 08/26/2024
OTHER	Michael Cronebach, P.E., 08/05/2024
OTHER	

FEDERAL PROJECT NUMBER

E210(239)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

RECONSTRUCT AND WIDEN I-75 FROM JUST NORTH OF THE FINDLAY ST. OVERPASS TO JUST SOUTH OF THE MARSHALL ST. OVERPASS. PROJECT INCLUDES THE RECONSTRUCTION OF THE WESTERN HILLS VIADUCT INTERCHANGE THAT WILL CONNECT THE NEW WESTERN HILLS VIADUCT (WHV) TO I-75. THE WHV PROJECT IS BEING DEVELOPED AND CONSTRUCTED BY THE CITY OF CINCINNATI UNDER PID 105349.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	*ACRES*
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	*ACRES*
NOTICE OF INTENT EARTH DISTURBED AREA:	*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.

STAGE 1
JUNE 21, 2024

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY

Signature lines to be placed below this note. Just list the titles and no names.

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:
EMH&T
Evans, Mechwart, Hambleton & Tilton, Inc.
Engineers • Surveyors • Planners • Scientists
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Toll Free: 888.775.3648
emht.com

IR. Typical comment.

ENGINEER'S SEAL:

SIGNED: _____
DATE: _____

ENGINEER'S SEAL:

SIGNED: _____
DATE: _____

STANDARD CONSTRUCTION DRAWINGS					*SUPPLEMENTAL SPECIFICATIONS*	*SPECIAL PROVISIONS*

TITLE SHEET

DESIGN AGENCY: EMH&T

DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.1
TOTAL	463

HAM-75-1.95

MODEL: Title Sheet PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:03:16 AM USER: sbeal
pw:\\ohiodot.pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161401-Engineering_EMHT\Roadway\Sheets\114161_GT001.dgn

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TYPICAL SECTIONS	P.6 - P.19
GENERAL NOTES	P.20
PLAN AND PROFILES - I.R. 75	P.21 - P.26
PLAN AND PROFILES - WESTERN HILLS VIA	P.27
PLAN AND PROFILES - WINCHELL AVE	P.28 - P.30
PLAN AND PROFILES - BANK ST / SPRING GROVE AVE	P.31 - P.32
PLAN AND PROFILES - HARRISON AVE	P.33
PLAN AND PROFILES - RAMP A	P.34
PLAN AND PROFILES - RAMP B	P.35 - P.37
PLAN AND PROFILES - RAMP C	P.38 - P.40
PLAN AND PROFILES - RAMP D	P.41 - P.45
PLAN AND PROFILES - RAMP G	P.46 - P.51
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CROSS SECTIONS - WINCHELL AVE	P.111 - P.126
CROSS SECTIONS - BANK ST	P.127 - P.134
CROSS SECTIONS - HARRISON AVE	P.135 - P.145
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HAM-00075-02.386	P.437 - P.445
HAM-00075-02.390	P.446 - P.454
HAM-00075-02.391	P.455 - P.456
WHV OVER IR 75	P.457 - P.463

Will Noise Wall Plans be included in this set?

Noise wall shown with Retaining Wall 001 currently, but will separate noise wall plans will be provided with Stage 2.

Add soil profile sheets in later submission

DESIGN DESIGNATION

HAM-75-1.95 Design Designation

	I-75	WESTERN HILLS VIADUCT	WINCHELL AVE	BANK STREET	HARRISON AVE	CONNECTOR
BUILD YEAR ADT (2029)	164,850	22,900	600	6,350	3,950	1,300
DESIGN YEAR ADT (2049)	189,800	23,350	750	6,700	4,400	1,400
DESIGN HOURLY VOLUME (2049)	17,950	2,010	140	640	390	120
DIRECTIONAL DISTRIBUTION	52%	53%	100%	60%	60%	100%
TRUCKS (24 HOUR B&C)	16%	11%	8%	21%	3%	3%
T$_s$	9%	8%	1%	15%	1%	14%
DESIGN SPEED	55 MPH	35 MPH	35 MPH	25 MPH	35 MPH	25 MPH
LEGAL SPEED	55 MPH	35 MPH	35 MPH	25 MPH	35 MPH	25 MPH
DESIGN CLASSIFICATION	01 INTERSTATE - URBAN	03 URBAN PRINCIPAL ARTERIAL	07 URBAN LOCAL	04 URBAN MINOR ARTERIAL	05 URBAN MAJOR COLLECTOR	URBAN LOCAL
NHS PROJECT	YES	YES	YES	YES	YES	YES

MODEL: Index of Sheets PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:03:25 AM USER: sbeal
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HAM-75-1.95

INDEX OF SHEETS

DESIGN AGENCY EMH&T

DESIGNER SJB

REVIEWER MJR 06/21/24

PROJECT ID 114161

SHEET P.2 TOTAL 463

CURVE 1
P.I. = STA. 114+25.91
Δ = 35°12'18" RT
Dc = 02°45'00"
R = 2,083.48'
T = 661.02'
L = 1,280.18'
E = 102.35'
Emax = 0.048

CURVE A1
P.I. = STA. 502+11.74
Δ = 16°49'04" RT
Dc = 04°00'00"
R = 1,432.39'
T = 211.74'
L = 420.44'
E = 15.57'
Emax = 0.052

CURVE B1
P.I. = STA. 9+33.35
Δ = 06°53'09" RT
Dc = 02°35'06"
R = 2,216.45'
T = 133.35'
L = 266.37'
E = 4.01'
Emax = 0.042

CURVE G1
P.I. = STA. 503+38.00
Δ = 06°27'30" RT
Dc = 03°00'00"
R = 1,909.86'
T = 107.75'
L = 215.28'
E = 3.04'
Emax = NC

CURVE G3
P.I. = STA. 511+88.54
Δ = 15°00'00" RT
Dc = 02°30'00"
R = 2,291.83'
T = 301.73'
L = 600'
E = 19.78'
Emax = 0.040

CURVE G5
P.I. = STA. 527+73.51
Δ = 05°25'15" RT
Dc = 02°45'00"
R = 2,083.48'
T = 98.64'
L = 197.12'
E = 2.33'
Emax = 0.042

CURVE W1
P.I. = STA. 6+43.36
Δ = 06°17'27" RT
Dc = 01°30'01"
R = 3,819.21'
T = 209.88'
L = 419.33'
E = 5.76'
Emax = NC

CURVE D1
P.I. = STA. 304+56.40
Δ = 08°44'49" RT
Dc = 03°00'00"
R = 1,909.86'
T = 146.06'
L = 291.56'
E = 5.58'
Emax = 0.045

CURVE A2
P.I. = STA. 506+73.29
Δ = 02°53'21" LT
Dc = 01°30'00"
R = 3,819.72'
T = 96.32'
L = 192.60'
E = 1.21'
Emax = 0.028

CURVE B2
P.I. = STA. 19+13.40
Δ = 10°29'02" LT
Dc = 05°59'58"
R = 955.00'
T = 87.62'
L = 174.74'
E = 4.01'
Emax = 0.036

CURVE G2
P.I. = STA. 506+18.38
Δ = 04°49'52" LT
Dc = 03°00'00"
R = 1,909.86'
T = 80.57'
L = 161.04'
E = 1.70'
Emax = 0.028

CURVE G4
P.I. = STA. 517+86.50
Δ = 17°50'09" RT
Dc = 03°00'00"
R = 1,909.86'
T = 299.69'
L = 594.53'
E = 23.37'
Emax = 0.045

CURVE SP1
P.I. = STA. 803+81.70
Δ = 34°51'02" RT
Dc = 28°38'52"
R = 200.00'
T = 62.77'
L = 121.65'
E = 9.62'
Emax = NC

CURVE W2
P.I. = STA. 11+56.10
Δ = 20°59'39" RT
Dc = 03°30'02"
R = 1,636.82'
T = 303.28'
L = 599.76'
E = 27.86'
Emax = NC

I question the need for 0.045 superelevation based on a 50 mph design speed since drivers are coming from a low speed roadway (Winchell Ave.) and proceed through the intersection of Bank St. I think a superelevation based on the low or middle range design speed is more appropriate.

Agreed.

John Otis: Begin + End Project SLMs do not match Ellis. Recommend updating Ellis once limits are more refined.

BEGIN PROJECT STA. 102+00.00 S.L.M. = 1.94
E210 (239)

BEGIN WORK STA. 42+50.00

HAM-00075-02.179 SFN 3109366
HAM-00075-02.391 SFN 3109403
HAM-00075-02.390 SFN 3109402
HAM-00075-02.386 SFN 3109400
HAM-00075-02.172 SFN 3109365
HAM-75-00075-02.381 SFN 3109401
HAM-75-0191 SFN 3109306

℄ CONST SPRING GROVE AVE
℄ CONST RAMP B 36" WM
℄ CONST IR 75
℄ CONST RAMP A
℄ CONST RAMP D
℄ CONST WINCHELL AVE

PT STA. 804+40.58
PC STA. 803+18.93
PCC STA. 514+86.81
POT STA. 8+00.00
PT STA. 520+81.34
PT STA. 10+66.37
PC STA. 526+74.87
PC STA. 18+25.78
PT STA. 20+00.52
PT STA. 507+69.57
PT STA. 528+71.99
PC STA. 505+76.97
PC STA. 508+86.81
PT STA. 506+98.85
PT STA. 505+37.82
PT STA. 504+45.52
PC STA. 502+30.24
POT STA. 501+50.00
PT STA. 14+52.58
POT STA. 14+61.33
POT STA. 500+00.00
PC STA. 303+10.34
PT STA. 504+20.44
PT STA. 120+45.07
PT STA. 306+01.90
PI STA. 508+21.66
PI STA. 510+36.81
POT STA. 513+52.07
PC STA. 107+64.89
POT STA. 300+00.00

SP1 G4 G5 B2 B1 A1 A2 D1 G3 G2 G1 W1 W2

BANK ST HARRISON AVE SPRING GROVE AVE DALTON AVE I.R. 75 SB I.R. 75 NB WINCHELL AVE FINDLAY ST WESTERN AVE HULBERT ST YORK ST NAEHER ST DAYTON ST GARDEN ST

60" STM 54" STM 78" CS 36" WM 10" WM 6" GAS 24" WM 12" WM 30" CS 12" CS 60" CS 54" STM CP312 CP205 CP102

MATCHLINE STA 130+00, SEE SHEET P.4

for MOT pursue full closure of Bank, Harrison, and Findlay with detour to significantly reduce costs and save time on project. for example, Liberty Street seems to be easy detour.

NOTE TO REVIEWER: THE DESIGN SOUTH OF STATION 102+00 IS TO BE DETERMINED IN STAGE 2 DUE TO ONGOING COORDINATION WITH HAM-75-1.05, PID 113361.

FUTURE EXISTING IR-75 PER HAM-75-1.05, PID 113361

John Otis - is the resurface starting like this or on a skew to match the bridge?

It's just a generic line now as that work is still to be coordinated.

A N29°04'23"W, 80.24'
B N22°36'53"W, 92.30'
C N27°26'45"W, 187.96'
D N05°27'02"E, 759.41'
E N05°23'24"E, 593.53'
F N10°48'39"E, 682.68'
G N05°02'00"W, 112.46'
H N29°45'16"W, 1,219.09'
I N05°27'02"E, 1,066.84'
J N03°06'39"W, 310.34'
K N08°31'30"E, 156.53'
L N05°38'10"E, 52.09'
M N07°46'01"E, 215.15'
N N05°38'10"E, 315.26'
O N05°38'10"E, 1,271.44'
P N33°00'26"W, 433.49'
Q N05°43'20"W, 8.75'
R S83°44'42"E, 900.00'
S N28°58'38"W, 318.93'
T N05°52'24"E, 1,145.46'
U N01°13'06"E, 217.11'

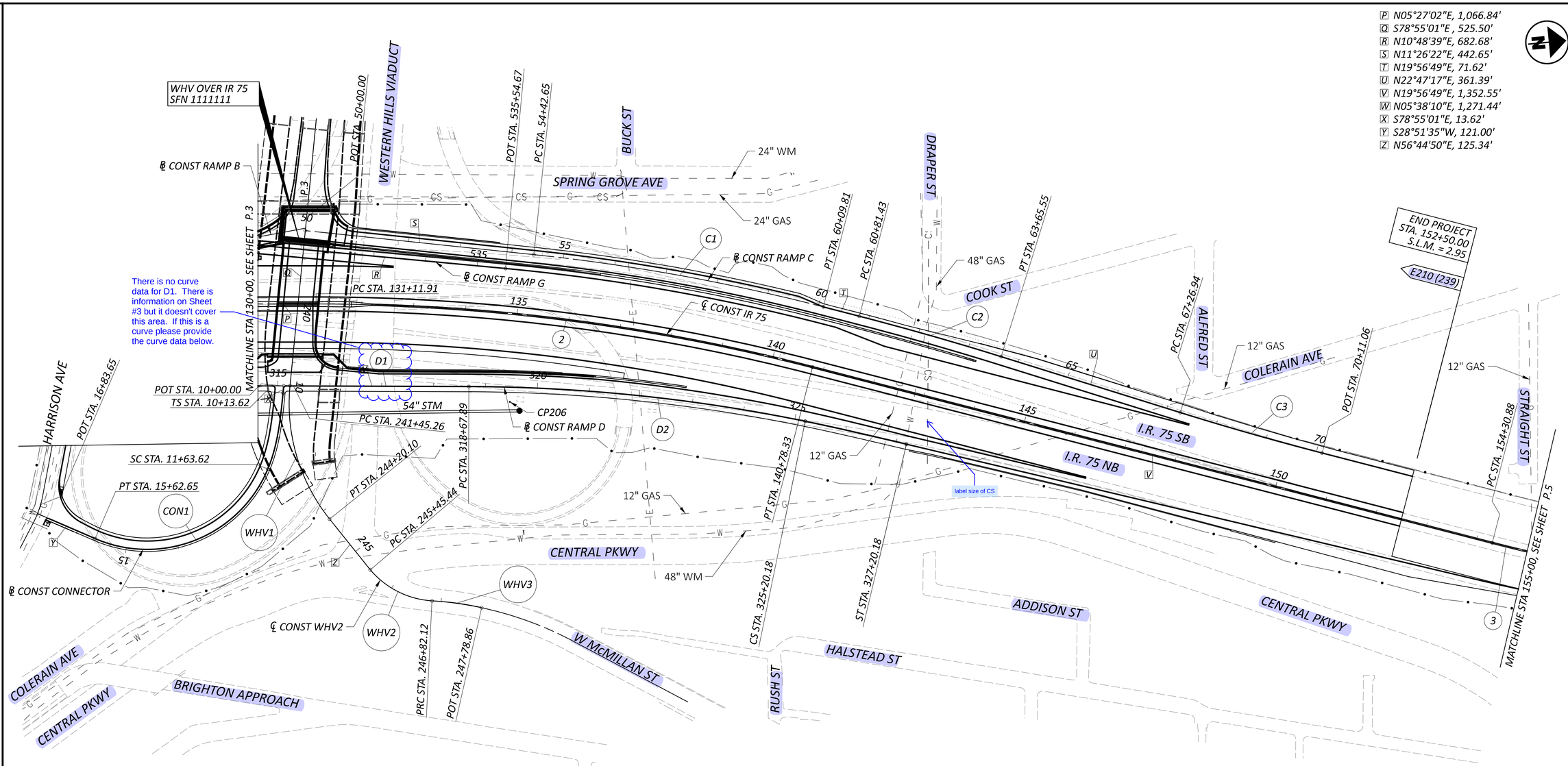
HORIZONTAL SCALE IN FEET
0 50 100 200

SCHEMATIC PLAN

DESIGN AGENCY EMH&T
DESIGNER SJB
REVIEWER MJR 06/21/24
PROJECT ID 114161
SHEET P.3 TOTAL 463

HAM-75-1.95

MODEL: Schematic Plan - Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:04:27 AM USER: sbeal
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P N05°27'02"E, 1,066.84'
Q S78°55'01"E , 525.50'
R N10°48'39"E, 682.68'
S N11°26'22"E, 442.65'
T N19°56'49"E, 71.62'
U N22°47'17"E, 361.39'
V N19°56'49"E, 1,352.55'
W N05°38'10"E, 1,271.44'
X S78°55'01"E, 13.62'
Y S28°51'35"W, 121.00'
Z N56°44'50"E, 125.34'

HORIZONTAL SCALE IN FEET
0 50 100 200

SCHEMATIC PLAN

CURVE 2
P.I. = STA. 135+97.72
Δ = 14°29'47" RT
Dc = 01°30'00"
R = 3,819.72'
T = 485.81'
L = 966.42'
E = 30.77'
Emax = 0.032

CURVE 3
P.I. = STA. 163+68.90
Δ = 36°15'37" LT
Dc = 02°00'00"
R = 2,864.79'
T = 938.02'
L = 1,813.01'
E = 149.66'
Emax = 0.030

The superelevation represents a 50 mph design speed. With the ramp ending in a dual right turn and drivers need to be slowing the design speed for this superelevation should be either the lower range or at most the middle range.

CURVE C1
P.I. = STA. 57+26.75
Δ = 08°30'27" RT
Dc = 01°30'00"
R = 3,819.72'
T = 284.1'
L = 567.16'
E = 10.55'
Emax = 0.028

CURVE C2
P.I. = STA. 62+23.52
Δ = 02°50'28" RT
Dc = 01°00'00"
R = 5,729.58'
T = 142.09'
L = 284.12'
E = 1.76'
Emax = 0.020

CURVE C3
P.I. = STA. 68+69.03
Δ = 02°50'28" LT
Dc = 01°00'00"
R = 5,729.58'
T = 142.09'
L = 284.12'
E = 1.76'
Emax = 0.020

CURVE D2
P.I. = STA. 321+95.12
Δ = 11°24'54" RT
Dc = 01°45'00"
R = 3,274.05'
Ls = 200.00'
Θs = 01°45'00"
LT = 133.34'
ST = 66.67'
x = 199.95'
y = 4.07'
k = 100.00'
p = 0.51'
Lc = 652.29'
T = 327.23'
E = 16.31'
Emax = 0.032

No curve data for Curve D1.

CURVE WHV1
P.I. = STA. 242+89.97
Δ = 44°18'21" LT
Dc = 16°07'13"
R = 355.43'
T = 144.71'
L = 274.85'
E = 28.33'
Emax =NA

CURVE WHV2
P.I. = STA. 246+17.72
Δ = 46°03'54" LT
Dc = 33°42'12"
R = 170.00'
T = 72.27'
L = 136.68'
E = 14.73'
Emax = NA

CURVE WHV3
P.I. = STA. 247+30.61
Δ = 10°06'52" RT
Dc = 10°27'19"
R = 548.00'
T = 48.5'
L = 96.74'
E = 2.14'
Emax = NA

CURVE CON1
P.I. = STA. 14+18.83
Δ = 90°43'28" RT
Dc = 22°44'11"
R = 252.00'
Θs Ls = 150.00'
Θs = 17°03'08"
LT = 100.47'
ST = 50.43'
x = 148.68'
y = 14.79'
k = 74.78'
p = 3.71'
Lc = 399.03'
T = 255.21'
E = 106.66'
Emax = 0.053

DESIGN AGENCY
EMH&T
DESIGNER
SJB
REVIEWER
MJR 06/21/24
PROJECT ID
114161
SHEET P.4
TOTAL 463

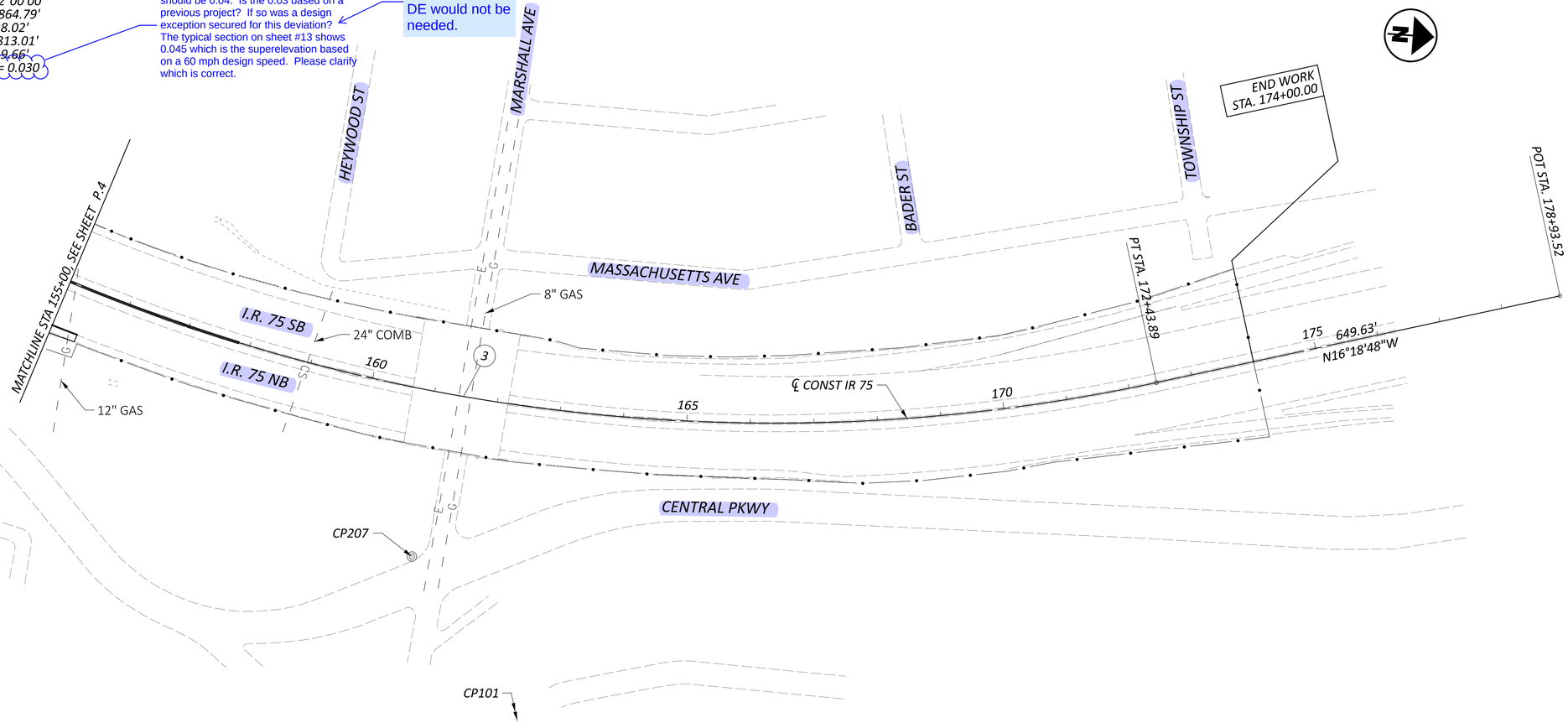
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CURVE 3
P.I. = STA. 163+68.90
Δ = 36°15'37" LT
Dc = 02°00'00"
R = 2,864.79'
T = 938.02'
L = 1,813.01'
E = 149.66'
Emax = 0.030

From Fig. 202-8 the superelevation for a 2 degree curve and a 55 mph design speed should be 0.04. Is the 0.03 based on a previous project? If so was a design exception secured for this deviation? The typical section on sheet #13 shows 0.045 which is the superelevation based on a 60 mph design speed. Please clarify which is correct.

Resurfacing only in this section so DE would not be needed.



POINT	NORTHING (GRID)	EASTING (GRID)	NORTHING (GROUND)	EASTING (GROUND)	ELEVATION	DESCRIPTION
CP101	419139.6036	1393339.1403	419159.7286	1393439.2867	641.798	CITY OF CINCINNATI CONCRETE MONUMENT 6926, NGS JZ3575
CP102	412662.2368	1392153.2535	412691.8970	1392253.3148	504.023	CITY OF CINCINNATI CONCRETE MONUMENT 350, NGS JZ0672
CP205	413546.3661	1391530.0429	413576.0898	1391630.0594	506.504	I75-I71 SET 2010 CONCRETE MONUMENT #16
CP206	416278.0365	1391378.5557	416307.9566	1391478.5613	508.784	I75-I71 SET 2010 CONCRETE MONUMENT #17
CP207	418768.6889	1392243.7779	418798.7880	1392343.8457	539.525	CITY OF CINCINNATI CONCRETE MONUMENT 349
CP312	415230.7875	1391267.9939	415260.6323	1391367.9915	501.220	CAPPED OHIO DEPARTMENT OF TRANSPORTATION WOOLPERT INC PROJECT CONTROL, 206

HORIZONTAL SCALE IN FEET
0 50 100 200

SCHEMATIC PLAN

DESIGN AGENCY
EMH&T

DESIGNER SJB
REVIEWER MJR 06/21/24
PROJECT ID 114161
SHEET P.5 TOTAL 463

HAM-75-1.95

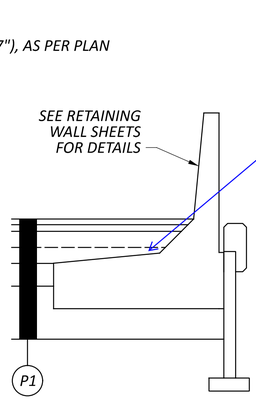
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pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\d01-Engineering_EMHT\Roadway\Sheets\114161_GB001.dgn

EXISTING LEGEND

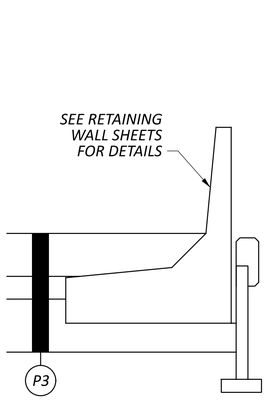
- (A) EXISTING 3"± ASPHALT CONCRETE
- (B) EXISTING 5-1/2"± ASPHALT CONCRETE
- (C) EXISTING 9"± REINFORCED CONCRETE PAVEMENT
- (D) EXISTING 10"± REINFORCED CONCRETE PAVEMENT
- (E) EXISTING 6"± AGGREGATE BASE
- (F) EXISTING CURB
- (G) EXISTING 13"± ASPHALT CONCRETE

PROPOSED LEGEND

- * (1) ITEM 442 - 1-1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447)
- * (2) ITEM 442 - 1-3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)
- (3) ITEM 452 - 11-1/2" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P WITH QC/QA
- (4) ITEM 305 - 9" CONCRETE BASE, CLASS QC 1P WITH QC/QA
- (5) ITEM 407 - NON-TRACKING TACK COAT
- (6) ITEM 302 - 8-1/2" ASPHALT CONCRETE BASE, (449), (PLACED IN 2 - 4-1/4" LIFTS)
- (7) ITEM 609 - 4" CONCRETE MEDIAN
- (8) ITEM 304 - 6" AGGREGATE BASE
- (9) ITEM 608 - 5" CONCRETE WALK
- (10) ITEM 254 - 1-1/2" PAVEMENT PLANING, ASPHALT CONCRETE
- (11) ITEM 206 - 14" CEMENT STABILIZED SUBGRADE
- (12) ITEM 526 - REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=17"), AS PER PLAN
- (13) ITEM 204 - PROOF ROLLING
- (14) ITEM 204 - SUBGRADE COMPACTION
- (15) ITEM 254 - 3-1/4" PAVEMENT PLANING, ASPHALT CONCRETE
- (16) ITEM 659 - SEEDING AND MULCHING
- (17) ITEM 606 - GUARDRAIL, TYPE MGS
- (18) ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE B1/C1
- (19) ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C
- (20) ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D
- (21) ITEM 618 - RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)
- (22) ITEM 609 - CURB, TYPE 6
- (23) ITEM 609 - CURB, TYPE 4C
- (24) ITEM 601 - PAVED GUTTER, TYPE 1-2
- (25) ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS (30" DEPTH)
- (26) ITEM 605 - 6" BASE PIPE UNDERDRAINS (18" DEPTH)

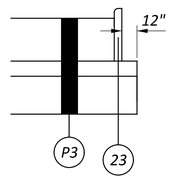


IR 75 PAVEMENT DETAIL WITH MOMENT SLAB BARRIER AND RETAINING WALL

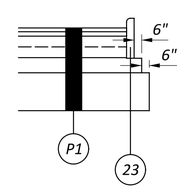


RAMP PAVEMENT DETAIL WITH MOMENT SLAB BARRIER AND RETAINING WALL

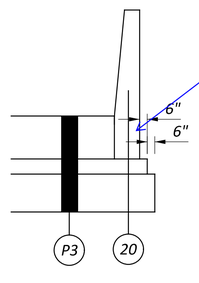
NOTE: CEMENT STABILIZED SUBGRADE WILL NOT BE PERFORMED WITHIN THE LIMITS OF THE SELECT GRANULAR BACKFILL OF THE MSE WALLS. SEE RETAINING WALL PLANS FOR LIMITS.



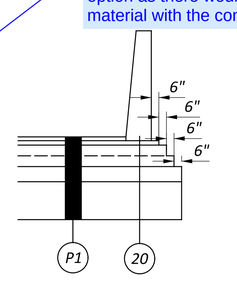
RAMP PAVEMENT STEP DETAIL WITH CURB



IR 75 PAVEMENT STEP DETAIL WITH CURB

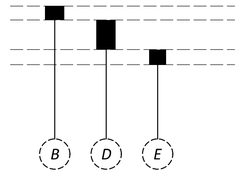


RAMP PAVEMENT STEP DETAIL WITH TYPE D BARRIER

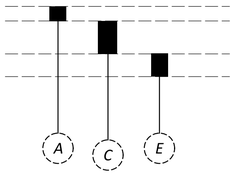


IR 75 PAVEMENT STEP DETAIL WITH TYPE D BARRIER

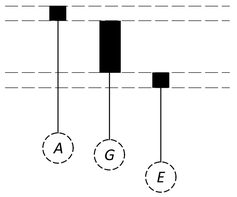
As the Type D is paid as FT we might need an APP item to differentiate from the asphalt option as there would be 10" x 20" more material with the concrete pavement option.



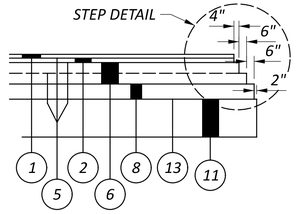
E1 EXISTING PAVEMENT BUILDUP
IR-75 (BEGIN PROJECT)



E2 EXISTING PAVEMENT BUILDUP
LOCAL ROADS & RAMPS



E3 EXISTING PAVEMENT BUILDUP
IR 75 (END PROJECT)



P1 PROPOSED PAVEMENT BUILDUP
IR-75

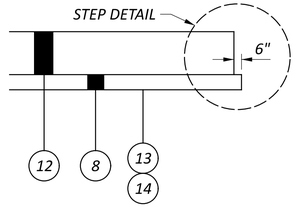
Checked

Mainline I-75 composition matches Pavt Selection by ODOT on 04.2021

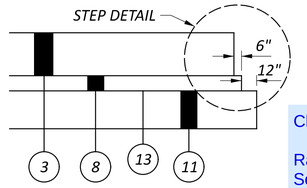
1.5" - Item 442 Surface
1.75 - Item 442 Intermediate
8.5" - Item 302
6" - Item 304

3 applications of Tack Coat

Chemical Stabilized Subgrade



P2 PROPOSED PAVEMENT BUILDUP
(APPROACH SLAB)

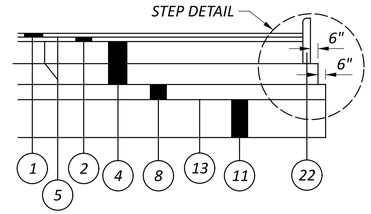


P3 PROPOSED PAVEMENT BUILDUP
RAMPS

Checked

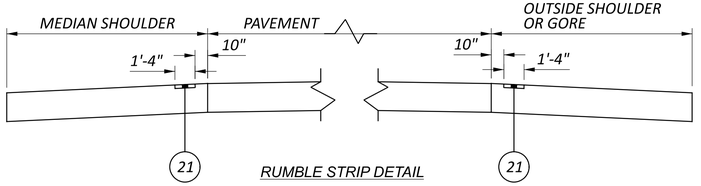
Ramp composition matches Pavt Selection by ODOT on 04.2021

11.5" - Concrete
6" - Item 304
Chemical Stablized Subgrade



P4 PROPOSED PAVEMENT BUILDUP
LOCAL ROADS

NOTE: PER SCOPE DESIGN IS DEPENDENT ON CERTIFIED TRAFFIC AND CONFIRMED WITH CITY



RUMBLE STRIP DETAIL

SEE SCD BP-9.1 AND GENERAL NOTES FOR MORE INFORMATION REGARDING ITEM 618 - RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)

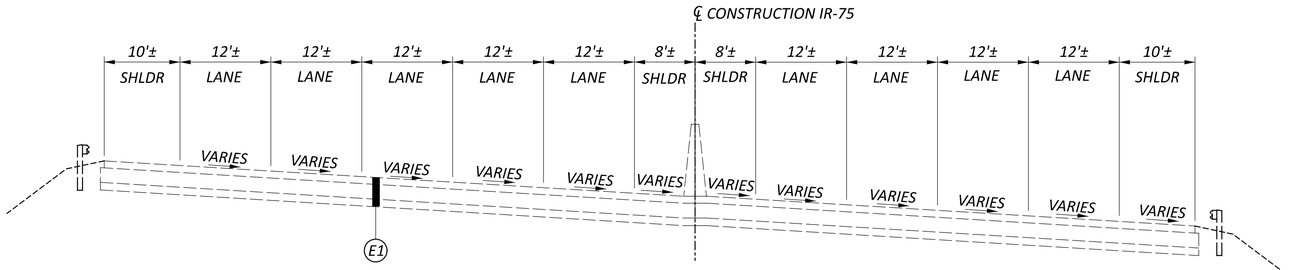
* ITEM 442 - ANTI-SEGREGATION EQUIPMENT

TYPICAL SECTION - LEGEND

DESIGN AGENCY: EMHT
DESIGNER: SJB
REVIEWER: MJR 06/21/24
PROJECT ID: 114161
SHEET: P.6 TOTAL: 463

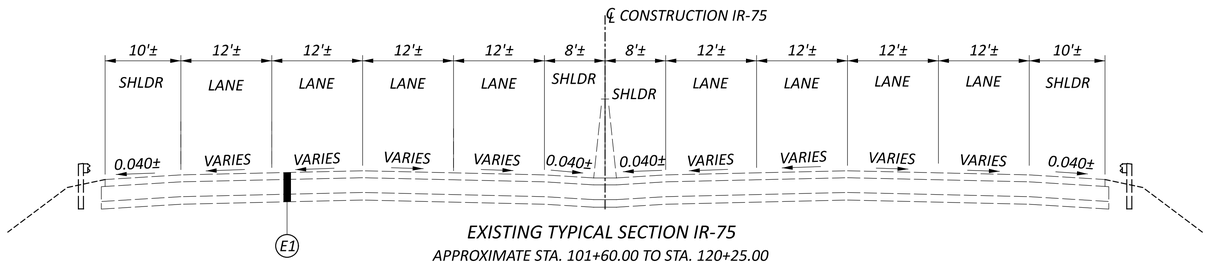
HAM-75-1.95

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EXISTING SUPERELEVATED SECTION IR-75

APPROXIMATE STA. 101+60.00 TO STA. 120+25.00



EXISTING TYPICAL SECTION IR-75

APPROXIMATE STA. 101+60.00 TO STA. 120+25.00

FOR LEGEND SEE SHEET P.6

EXISTING TYPICAL SECTION - IR-75

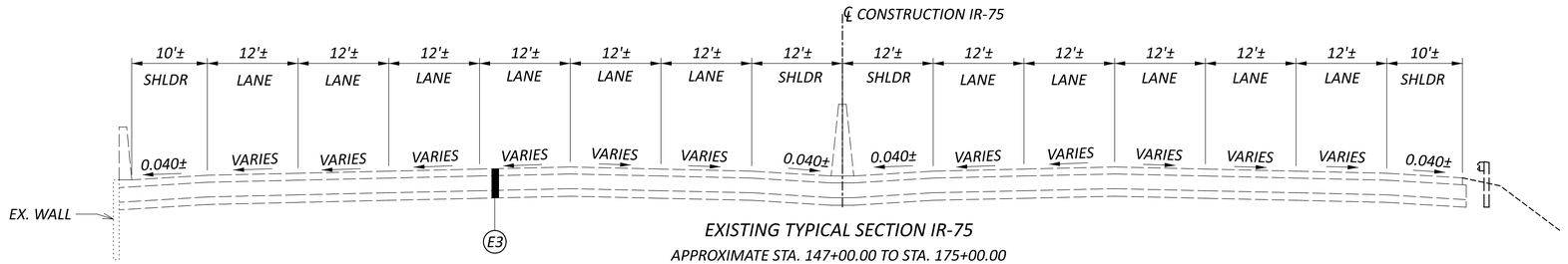
DESIGN AGENCY

EMH&T

DESIGNER	SJB
REVIEWER	MJR 06-21-24
PROJECT ID	114161
SHEET	P.7
TOTAL	463

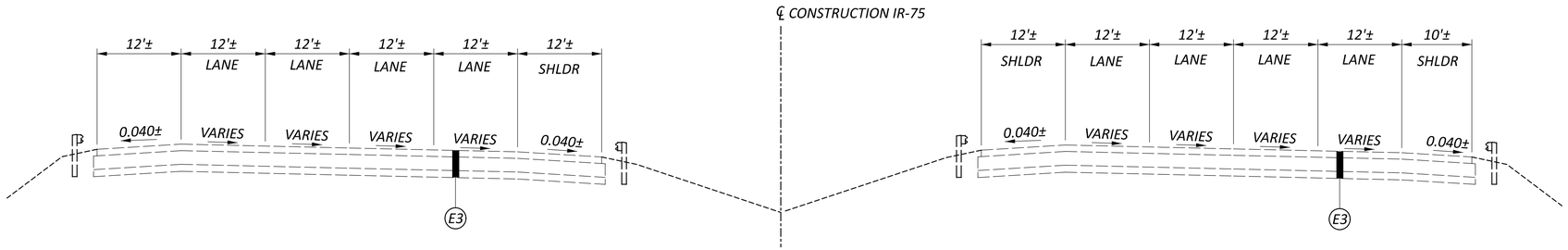
HAM-75-1.95

MODEL: Typical Section - EX IR-75 (1) |Sheet| PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:05:19 AM USER: sbeal
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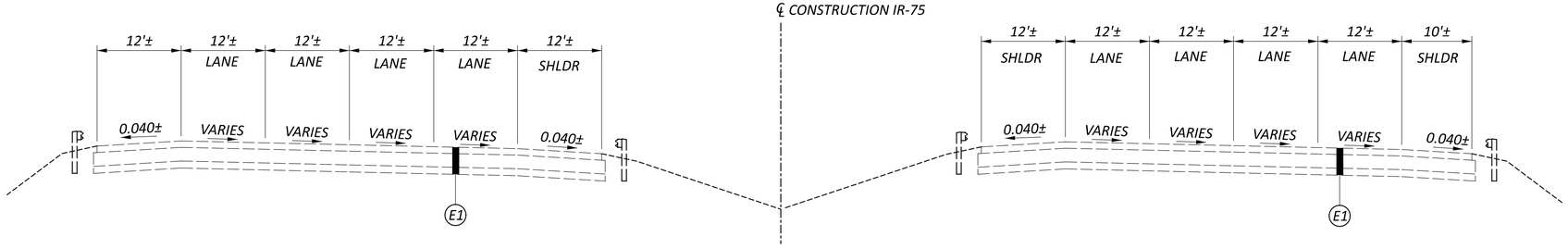
EXISTING TYPICAL SECTION IR-75

APPROXIMATE STA. 147+00.00 TO STA. 175+00.00



EXISTING TYPICAL SECTION IR-75

APPROXIMATE STA. 144+50.00 TO STA. 147+00.00



EXISTING TYPICAL SECTION IR-75

APPROXIMATE STA. 120+25.00 TO STA. 144+50.00

FOR LEGEND SEE SHEET P.6

EXISTING TYPICAL SECTION - IR-75

DESIGN AGENCY EMH&T

DESIGNER SB

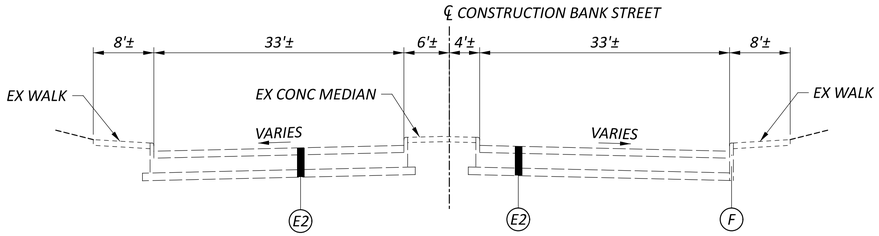
REVIEWER MJR 06-21-24

PROJECT ID 114161

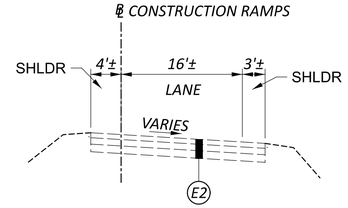
SHEET P.8 TOTAL 463

HAM-75-1.95

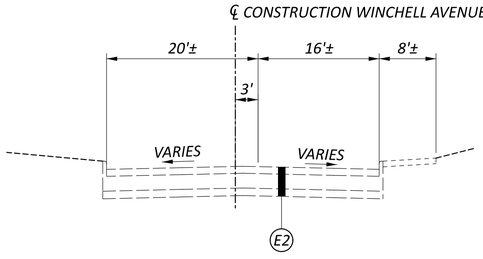
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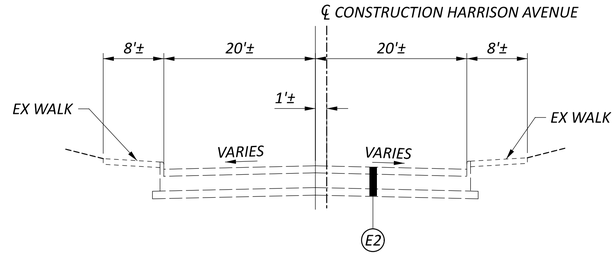
EXISTING TYPICAL SECTION BANK STREET



EXISTING TYPICAL SECTION RAMPS:
RAMP C
RAMP D
RAMP E
RAMP F
RAMP G



EXISTING TYPICAL SECTION WINCHELL AVENUE



EXISTING TYPICAL SECTION HARRISON AVENUE

FOR LEGEND SEE SHEET P.6

HAM-75-1.95

MODEL: Typical Section - EX I/R-75 (3) |Sheet| PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:05:20 AM USER: sbeal
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EXISTING TYPICAL SECTION - LOCAL ROADS AND RAMPS

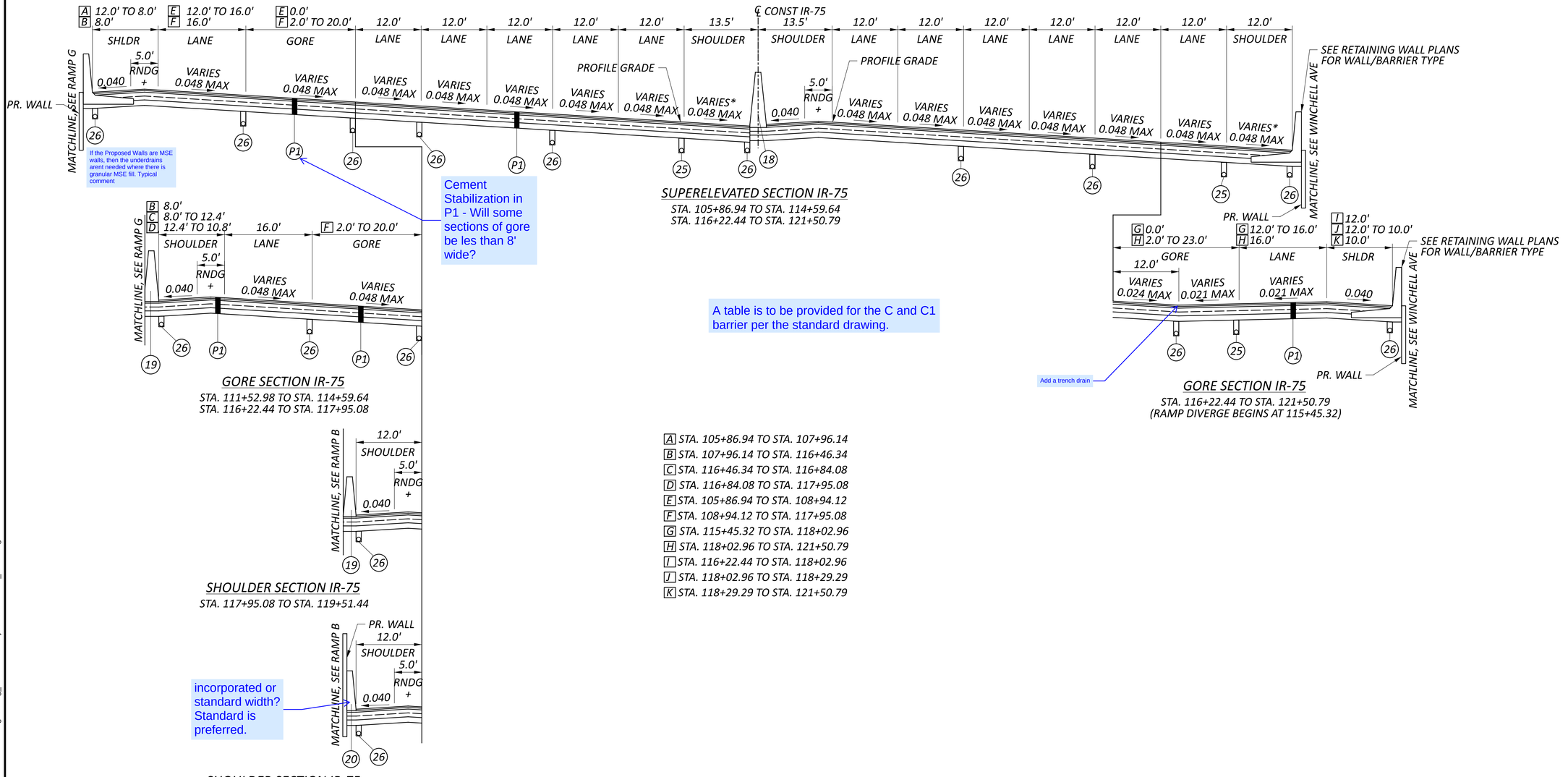
DESIGN AGENCY
EMHT

DESIGNER
SJB

REVIEWER
MJR 06-21-24

PROJECT ID
114161

SHEET P.9 TOTAL 463



+ = 0.070 MAX GRADE BREAK

* = 0.040 OR RATE OF SUPER IF GREATER

NOTE: SEE SUPERELEVATION TABLE FOR ADDITIONAL INFORMATION AND TRANSITION RANGES

FOR LEGEND SEE SHEET P.6

NOTE: PAVEMENT MILL AND OVERLAY SOUTH OF STATION 102+00.00 TO BE DETERMINED WITH COORDINATION OF PID 113361

PROPOSED TYPICAL SECTION - IR 75

HAM-75-1.95

MODEL: Typical Sections - PR IR-75 (1) |Sheet| PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:05:50 AM USER: sbeall
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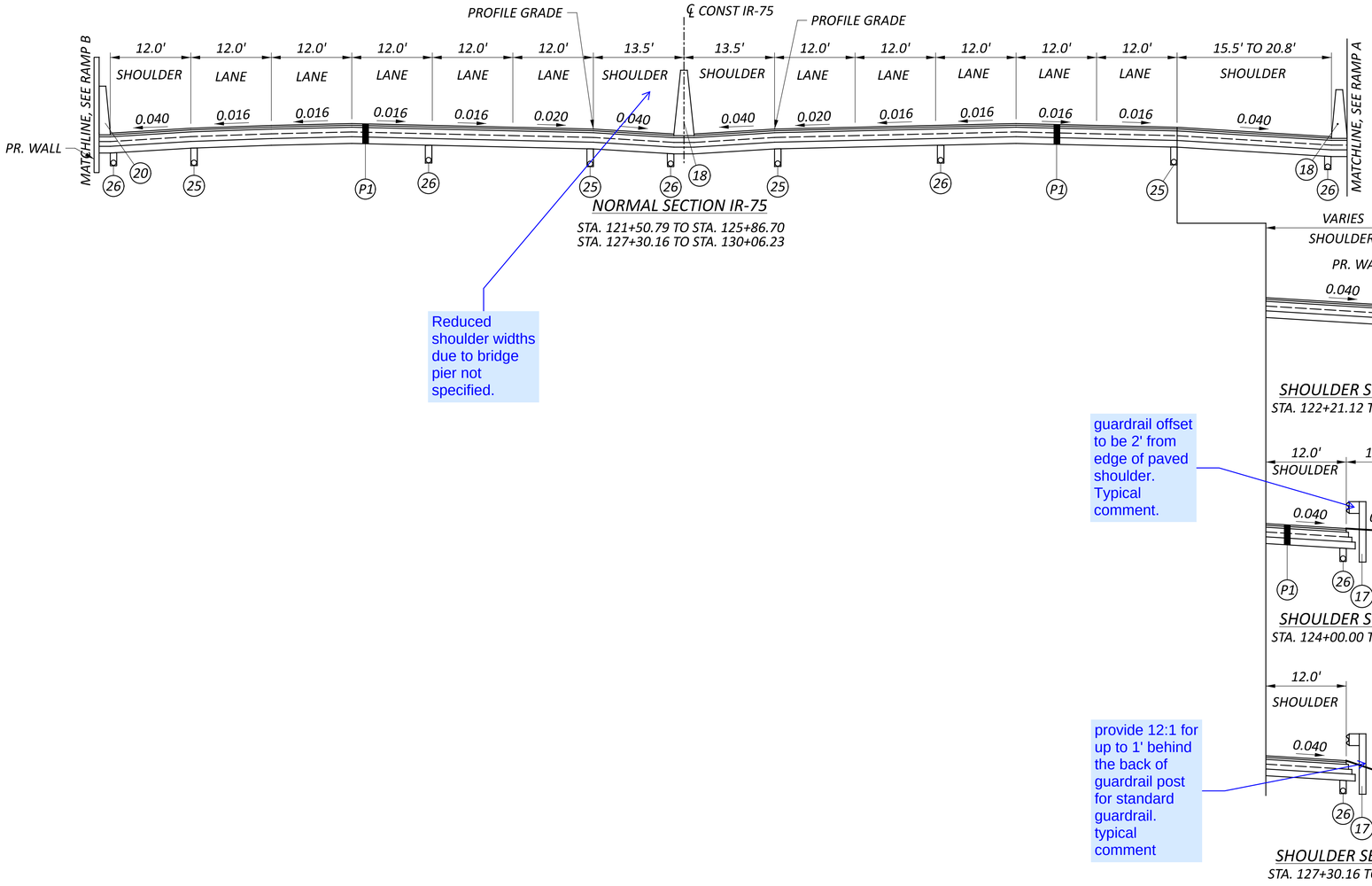
DESIGN AGENCY: EMH&T

DESIGNER: SJB

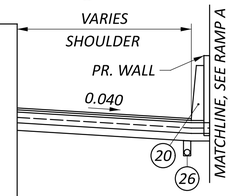
REVIEWER: MJR 06/21/24

PROJECT ID: 114161

SHEET: P.10 TOTAL: 463

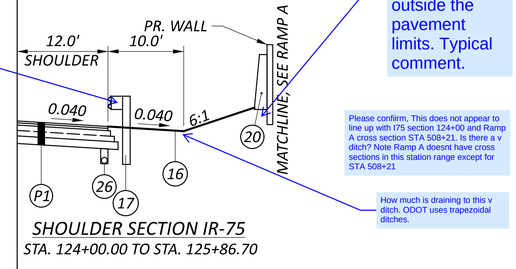


NORMAL SECTION IR-75
STA. 121+50.79 TO STA. 125+86.70
STA. 127+30.16 TO STA. 130+06.23

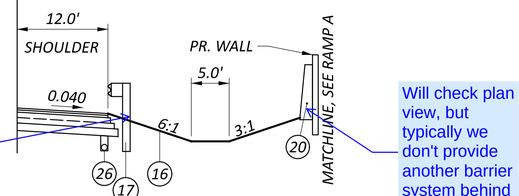


SHOULDER SECTION IR-75
STA. 122+21.12 TO STA. 124+00.00

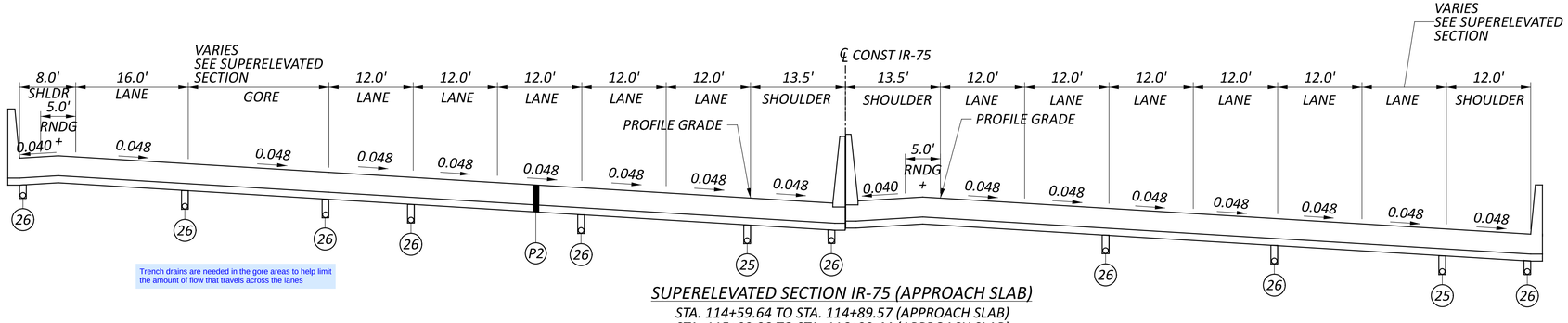
guardrail offset to be 2' from edge of paved shoulder. Typical comment.



SHOULDER SECTION IR-75
STA. 124+00.00 TO STA. 125+86.70



SHOULDER SECTION IR-75
STA. 127+30.16 TO STA. 130+06.23



SUPERELEVATED SECTION IR-75 (APPROACH SLAB)
STA. 114+59.64 TO STA. 114+89.57 (APPROACH SLAB)
STA. 115+92.38 TO STA. 116+22.44 (APPROACH SLAB)

+ = 0.070 MAX GRADE BREAK
* = 0.040 OR RATE OF SUPER IF GREATER

NOTE: SEE SUPERELEVATION TABLE FOR ADDITIONAL INFORMATION AND TRANSITION RANGES

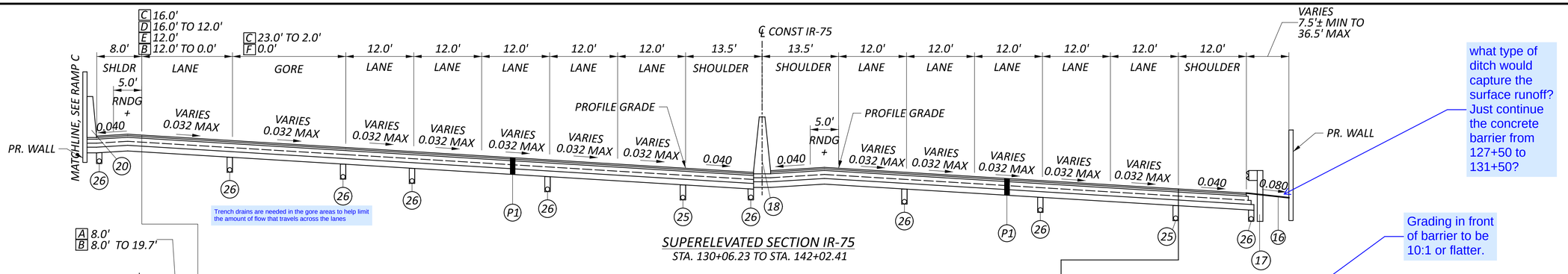
FOR LEGEND SEE SHEET P.6

PROPOSED TYPICAL SECTION - IR 75

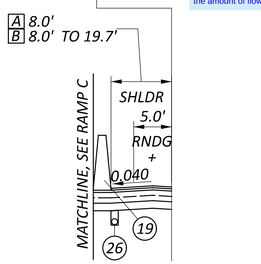
HAM-75-1.95

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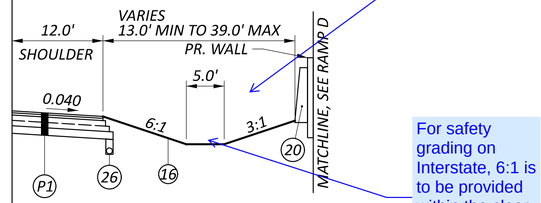
DESIGN AGENCY: EMH&T
DESIGNER: SJB
REVIEWER: MJR 06/21/24
PROJECT ID: 114161
SHEET: P.11 TOTAL: 463



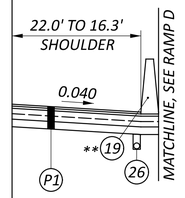
SUPERELEVATED SECTION IR-75
STA. 130+06.23 TO STA. 142+02.41



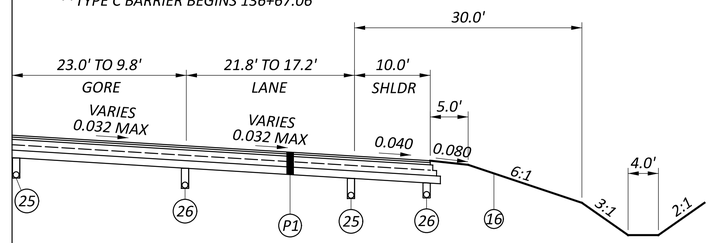
SHOULDER SECTION IR-75
STA. 136+48.08 TO STA. 142+02.41



DITCH SECTION IR-75
STA. 131+75.20 TO STA. 136+67.07



SHOULDER SECTION IR-75
STA. 136+67.07 TO STA. 138+46.74
**TYPE C BARRIER BEGINS 136+67.06

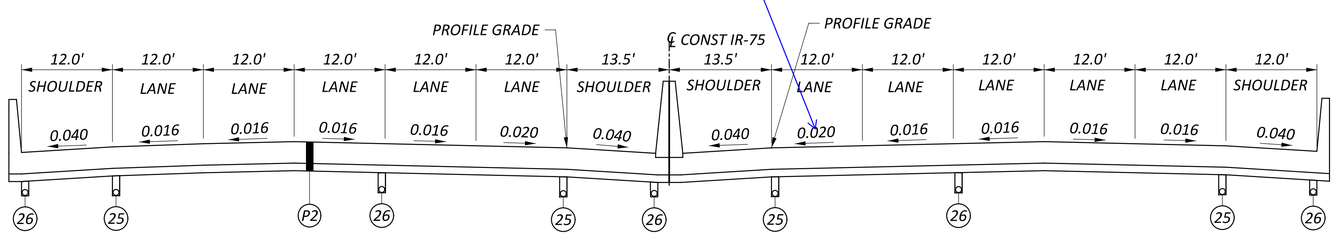


GORE SECTION IR-75
STA. 138+46.74 TO STA. 142+02.41

Trench drains are needed in the gore areas to help limit the amount of flow that travels across the lanes

A STA. 136+48.08 TO STA. 141+02.41
B STA. 141+02.41 TO STA. 142+02.41
C STA. 130+06.23 TO STA. 132+57.24
D STA. 132+57.24 TO STA. 134+69.25
E STA. 134+69.25 TO STA. 141+02.41
F STA. 132+57.24 TO STA. 142+02.41

Does not appear that the bridge transverse section shows the 2% cross slope for this lane. Confirm. Typical comment.



NORMAL SECTION IR-75 (APPROACH SLAB)
STA. 125+86.70 TO STA. 126+16.70
STA. 127+00.16 TO STA. 127+30.16

+ = 0.070 MAX GRADE BREAK
* = 0.040 OR RATE OF SUPER IF GREATER

NOTE: SEE SUPERELEVATION TABLE FOR ADDITIONAL INFORMATION AND TRANSITION RANGES

FOR LEGEND SEE SHEET P.6

PROPOSED TYPICAL SECTION - IR 75

HAM-75-1.95

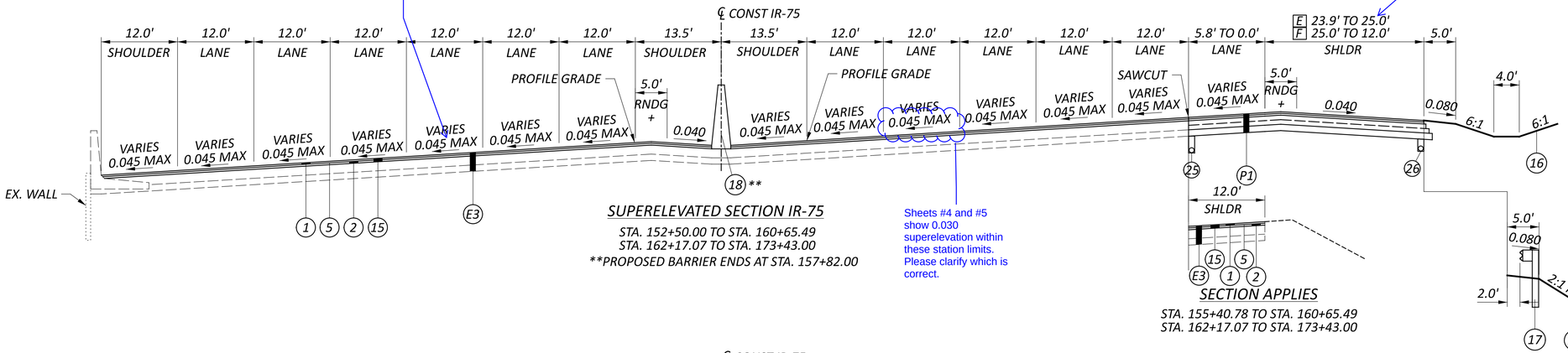
MODEL: Typical Sections - PR IR-75 (3) |Sheet| PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:05:52 AM USER: steal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161401-Engineering_EMHT\Roadway\Sheets\114161_GY003.dgn

DESIGN AGENCY: EMH&T
DESIGNER: SJB
REVIEWER: MJR 06/21/24
PROJECT ID: 114161
SHEET: P.12 TOTAL: 463

PROPOSED TYPICAL SECTION - IR 75

Typically for resurfacing the description would be "match existing" unless we are correcting cross slopes.

What's the reason for the widened shoulder?

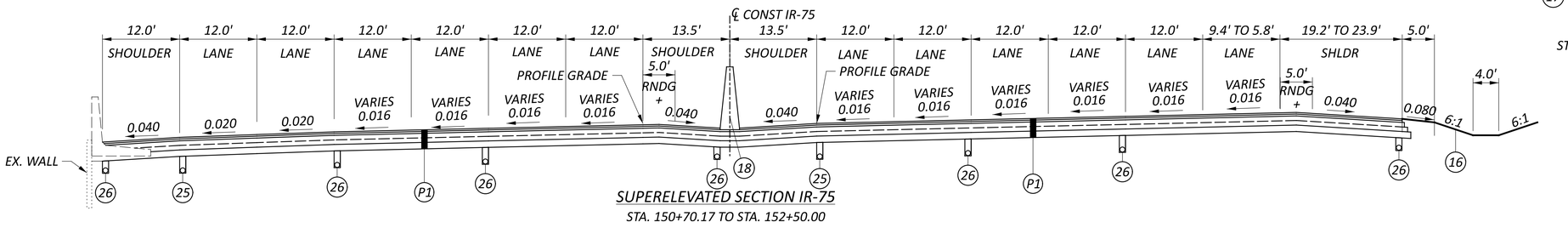


SUPERELEVATED SECTION IR-75
STA. 152+50.00 TO STA. 160+65.49
STA. 162+17.07 TO STA. 173+43.00
**PROPOSED BARRIER ENDS AT STA. 157+82.00

Sheets #4 and #5 show 0.030 superelevation within these station limits. Please clarify which is correct.

SECTION APPLIES
STA. 155+40.78 TO STA. 160+65.49
STA. 162+17.07 TO STA. 173+43.00

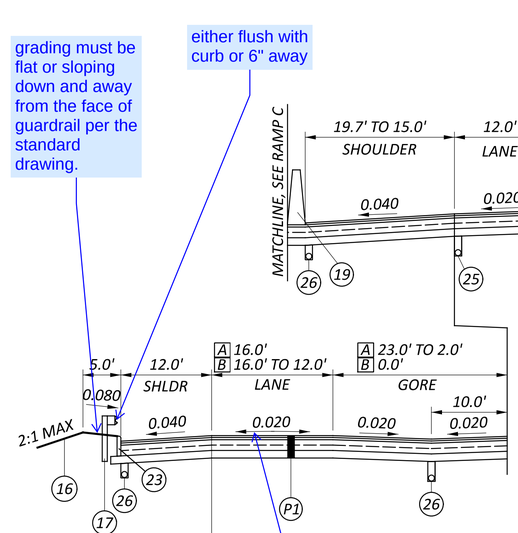
GRADING SECTION IR-75
STA. 153+57.19 TO STA. 155+40.78



SUPERELEVATED SECTION IR-75
STA. 150+70.17 TO STA. 152+50.00

grading must be flat or sloping down and away from the face of guardrail per the standard drawing.

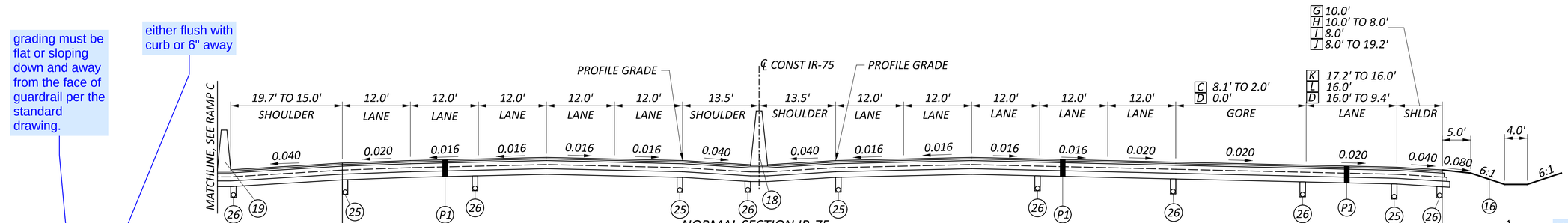
either flush with curb or 6" away



GORE SECTION IR-75
STA. 143+80.19 TO STA. 150+70.17

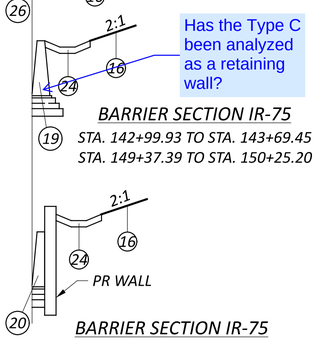
Drains both directions? Is there a crown?

SAWCUT AT FACE OF BARRIER SECTION IR-75
STA. 146+81.42 TO STA. 150+70.17



NORMAL SECTION IR-75
STA. 142+02.41 TO STA. 150+70.17

Has the Type C been analyzed as a retaining wall?



BARRIER SECTION IR-75
STA. 142+99.93 TO STA. 143+69.45
STA. 149+37.39 TO STA. 150+25.20

BARRIER SECTION IR-75
STA. 143+69.45 TO STA. 149+37.39

A STA. 143+80.19 TO STA. 148+07.66
B STA. 148+07.66 TO STA. 150+70.17
C STA. 142+02.41 TO STA. 147+40.64
D STA. 147+40.64 TO STA. 150+70.17
E STA. 152+50.00 TO STA. 152+91.53
F STA. 152+91.53 TO STA. 155+40.78
G STA. 142+02.41 TO STA. 142+90.98
H STA. 142+90.98 TO STA. 143+40.90
I STA. 143+40.90 TO STA. 146+40.89
J STA. 146+40.89 TO STA. 150+70.17
K STA. 142+02.41 TO STA. 142+90.78
L STA. 142+90.78 TO STA. 147+40.64

\+ = 0.070 MAX GRADE BREAK
* = 0.040 OR RATE OF SUPER IF GREATER

NOTE: SEE SUPERELEVATION TABLE FOR ADDITIONAL INFORMATION AND TRANSITION RANGES

FOR LEGEND SEE SHEET P.6

HAM-75-1.95

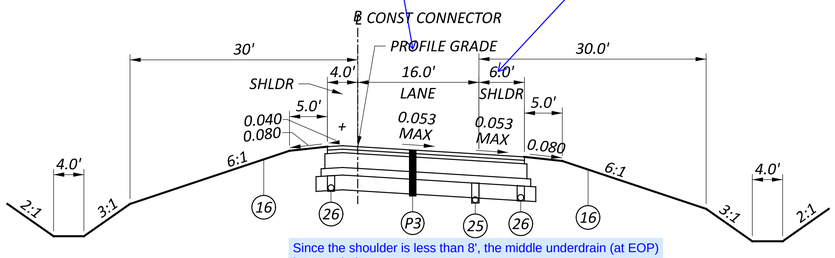
MODEL: Typical Sections - PR IR-75 (4) |Sheet| PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:05:53 AM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMH&T\Roadway\Sheets\114161_GY003.dgn

DESIGN AGENCY EMH&T
DESIGNER SJB
REVIEWER MJR 06/21/24
PROJECT ID 114161
SHEET P.13 TOTAL 463

Truck templates could be used to optimize the lane width.

City had comments about the widths since it's a local roadway and not a ramp per say. This would reduce the footprint.

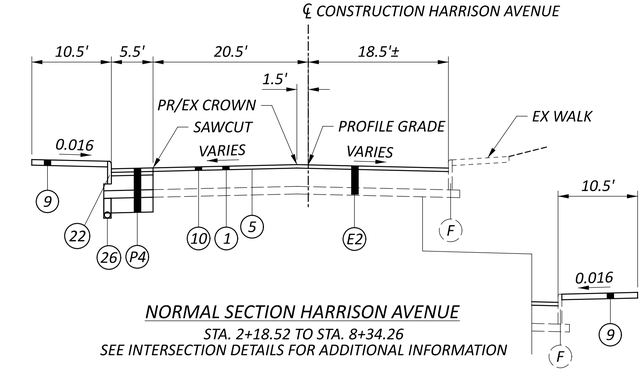
sufficient for sight distance?



Since the shoulder is less than 8', the middle underdrain (at EOP) isnt needed

SUPERELEVATED SECTION CONNECTOR

STA. 10+00.00 TO STA. 16+64.31



NORMAL SECTION HARRISON AVENUE

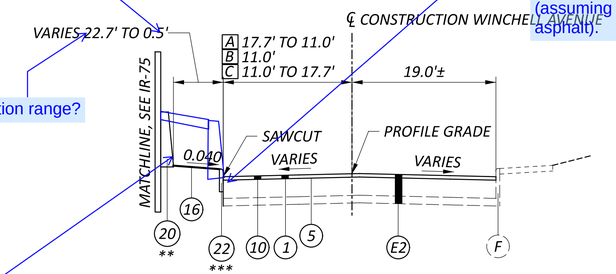
STA. 2+18.52 TO STA. 8+34.26
SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION

WALK RIGHT

STA. 2+60.00 TO STA. 5+90.00

Typically anything less than 2' wide would not warrant grass growth. Recommend a concrete slope protection. City should weigh in too.

Typically 2' of pavement is replaced in front of the curb to allow for forming then proper pavement compaction (assuming asphalt).

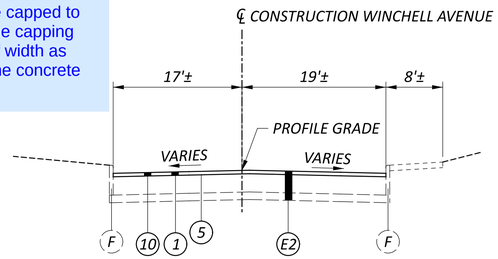


station range?

NORMAL SECTION WINCHELL AVENUE

STA. 1+55.00 TO STA. 13+90.19
** = BARRIER BEGINS AT STA 3+23.89
*** = CURB ENDS AT STA 11+60.00

ete barrier behind curb has not been crash tested. Per L V1 Section 602.1.5 guardrail behind curb at low speed 45mph) is to be no closer than 8' which could be d here. Where less than 8' the barrier should be at the um 4' offset from traveled way then can be capped to e of the wall (rough drawing provided). The capping be provided the entire length regardless of width as uardrail could be provided at the end of the concrete . Would want City thoughts too.



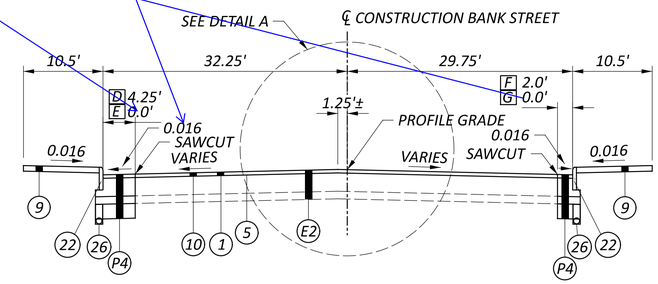
NORMAL SECTION WINCHELL AVENUE

STA. 0+41.33 TO STA. 1+55.00
STA. 11+60.00 TO STA. 11+80.00

A STA. 1+55.00 TO STA. 3+05.00
B STA. 3+05.00 TO STA. 11+25.00
C STA. 11+25.00 TO STA. 13+90.19
D STA. 2+46.00 TO STA. 3+26.00
E STA. 3+26.00 TO STA. 7+19.66
F STA. 2+46.00 TO STA. 3+01.23
G STA. 3+01.23 TO STA. 7+19.66

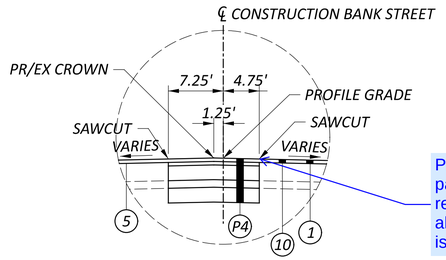
minimum 2' in front of any curb to allow for formwork

typically would match existing.



NORMAL SECTION BANK STREET

STA. 2+46.00 TO STA. 7+19.66
SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION

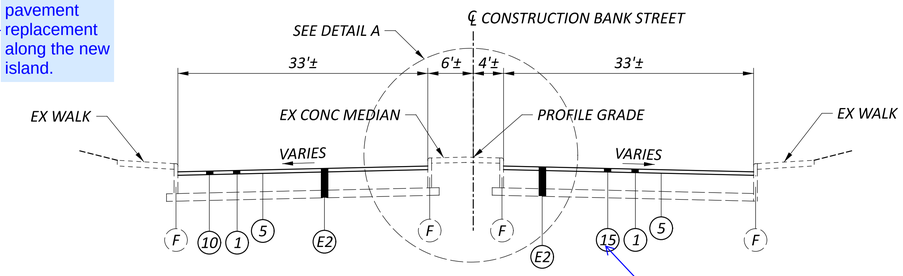


DETAIL A

STA. 1+53.00 TO STA. 1+84.00
STA. 3+60.00 TO STA. 6+00.00

Provide 2' of pavement replacement along the new island.

Show the proposed traffic island



NORMAL SECTION BANK STREET

STA. 1+31.93 TO STA. 2+46.00
SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION

10

Missing Spring Grove typical.

+ = 0.070 MAX GRADE BREAK
* = 0.040 OR RATE OF SUPER IF GREATER

NOTE: SEE SUPERELEVATION TABLE FOR ADDITIONAL INFORMATION AND TRANSITION RANGES

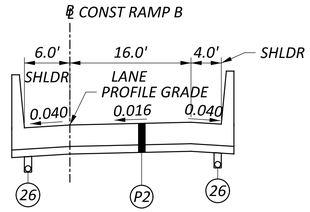
FOR LEGEND SEE SHEET P.6

PROPOSED TYPICAL SECTION - SIDE ROADS

HAM-75-1.95

MODEL: Typical Sections - PR SIDE ROADS [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 8:53:39 AM USER: sbeckett
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\Engineering\Roadway\Typical Sections\114161_GY003.dgn

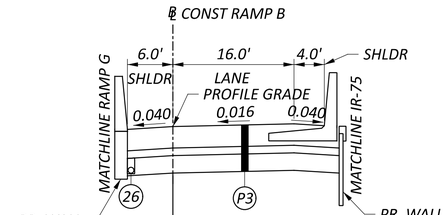
DESIGN AGENCY: EMH&T
DESIGNER: SJB
REVIEWER: MJR 06/21/24
PROJECT ID: 114161
SHEET: P.14 TOTAL: 463



There is no typical section provided from Sta. 16+54.85 up to the intersection with the WHV.

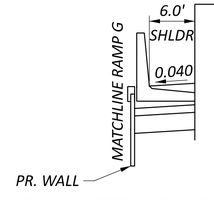
NORMAL SECTION RAMP B (APPROACH SLAB)

STA. 16+24.85 TO STA. 16+54.85



NORMAL SECTION RAMP B

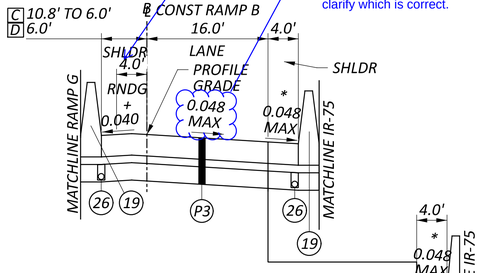
STA. 11+02.48 TO STA. 16+24.85



MSE WALL SECTION RAMP B

STA. 11+50.01 TO STA. 16+24.85

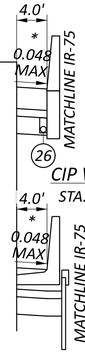
I'd like to see a standard detail of the rounding that shows the dimension on either side of the break point.



The 0.048 represents a 55 mph design speed. Sheet #3 is showing 0.042 max (50 mph design speed). Please clarify which is correct.

SUPERELEVATED SECTION RAMP B

STA. 8+00.00 TO STA. 11+02.48

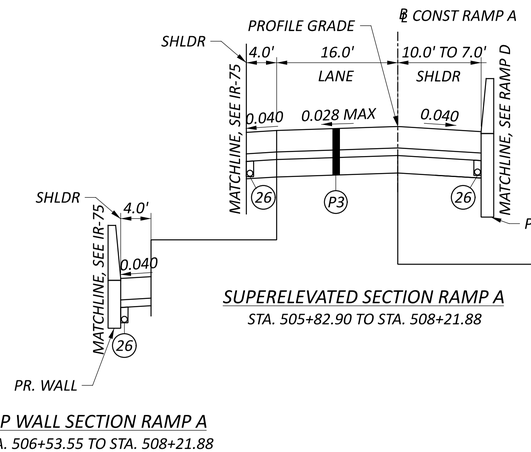


CIP WALL SECTION RAMP B

STA. 9+64.99 TO STA. 10+66.37

MSE WALL SECTION RAMP B

STA. 10+66.37 TO STA. 11+02.48



SUPERELEVATED SECTION RAMP A

STA. 505+82.90 TO STA. 508+21.88

CIP WALL SECTION RAMP A

STA. 506+53.55 TO STA. 508+21.88

TYPE C BARRIER SECTION RAMP A

STA. 506+58.41 TO STA. 508+21.88

A STA. 506+58.41 TO STA. 506+82.37
B STA. 506+82.37 TO STA. 508+21.88
C STA. 8+00.00 TO STA. 9+24.51
D STA. 9+24.51 TO STA. 11+02.48

\+ = 0.070 MAX GRADE BREAK

* = 0.040 OR RATE OF SUPER IF GREATER

NOTE: SEE SUPERELEVATION TABLE FOR ADDITIONAL INFORMATION AND TRANSITION RANGES

FOR LEGEND SEE SHEET P.6

PROPOSED TYPICAL SECTION - RAMPS A AND B

HAM-75-1.95

MODEL: Typical Sections - PR RAMP A-B [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:05:55 AM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161401-Engineering_EMHT\Roadway\Sheets\114161_GY003.dgn
114161_GY003.dgn

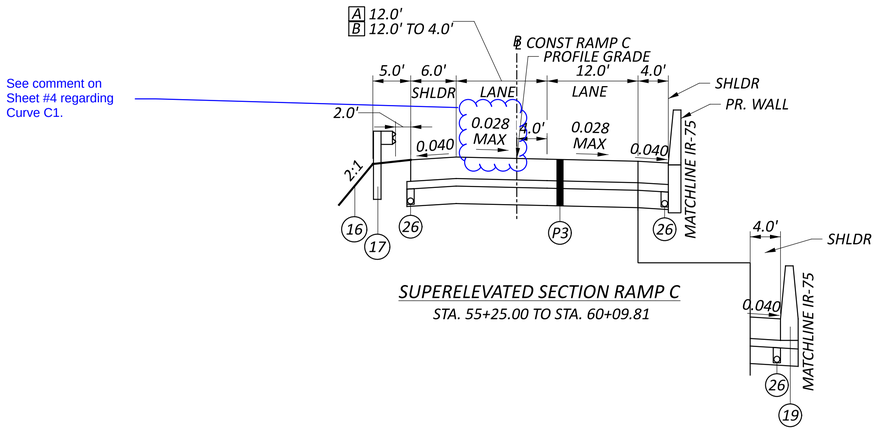
DESIGN AGENCY: EMH&T

DESIGNER: SJB

REVIEWER: MJR 06/21/24

PROJECT ID: 114161

SHEET: P.15 TOTAL: 463

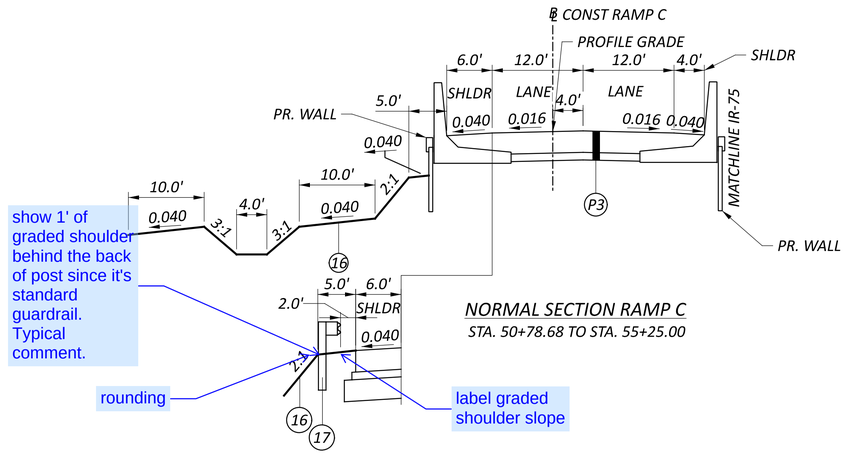


See comment on Sheet #4 regarding Curve C1.

A STA. 55+25.00 TO STA. 59+59.91
B STA. 59+59.91 TO STA. 60+09.81
C STA. 60+09.81 TO STA. 61+70.63
D STA. 61+70.63 TO STA. 63+21.37

SUPERELEVATED SECTION RAMP C
STA. 55+25.00 TO STA. 60+09.81

SHOULDER SECTION RIGHT
STA. 55+75.00 TO STA. 60+09.81



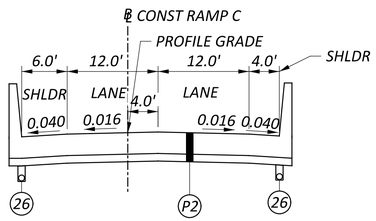
show 1' of graded shoulder behind the back of post since it's standard guardrail. Typical comment.

rounding

label graded shoulder slope

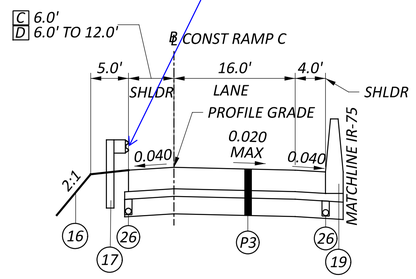
NORMAL SECTION RAMP C
STA. 50+78.68 TO STA. 55+25.00

GRADING SECTION RAMP C
STA. 53+75.00 TO STA. 55+25.00



NORMAL SECTION RAMP C (APPROACH SLAB)
STA. 50+48.68 TO STA. 50+78.68

2' offset from edge of paved shoulder to face of guardrail



SUPERELEVATED SECTION RAMP C
STA. 60+09.81 TO STA. 63+21.37

+ = 0.070 MAX GRADE BREAK
* = 0.040 OR RATE OF SUPER IF GREATER

NOTE: SEE SUPERELEVATION TABLE FOR ADDITIONAL INFORMATION AND TRANSITION RANGES

FOR LEGEND SEE SHEET P.6

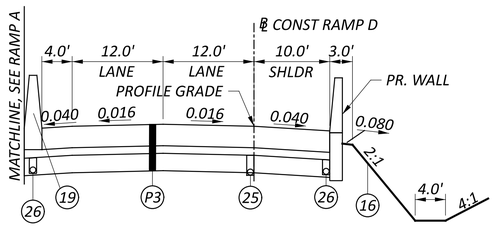
PROPOSED TYPICAL SECTION - RAMP C

DESIGN AGENCY: EMH&T

DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.16
TOTAL	463

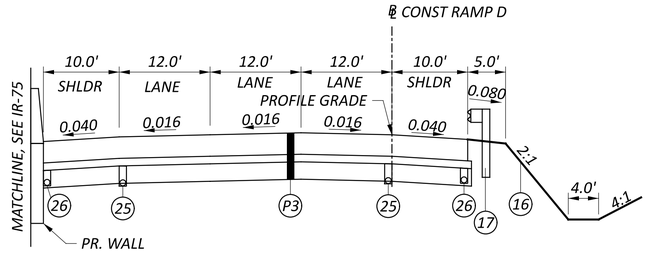
HAM-75-1.95

MODEL: Typical Sections - PR RAMP C [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:05:56 AM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GY003.dgn



NORMAL SECTION RAMP D

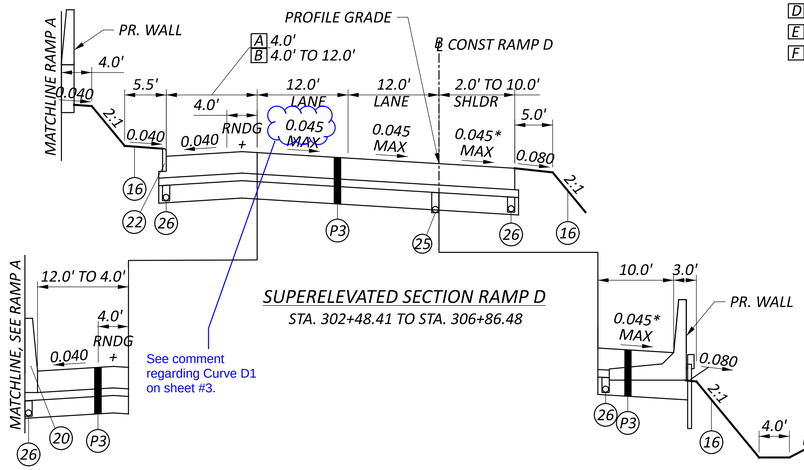
STA. 306+86.48 TO STA. 308+49.92



NORMAL SECTION RAMP D

STA. 313+26.47 TO STA. 314+85.10

A STA. 302+48.41 TO STA. 304+75.49
B STA. 304+75.49 TO STA. 305+00.13
C STA. 308+49.92 TO STA. 312+26.17
D STA. 311+72.42 TO STA. 313+26.47
E STA. 308+49.92 TO STA. 311+72.79
F STA. 311+72.79 TO STA. 313+26.47



SUPERELEVATED SECTION RAMP D

STA. 302+48.41 TO STA. 306+86.48

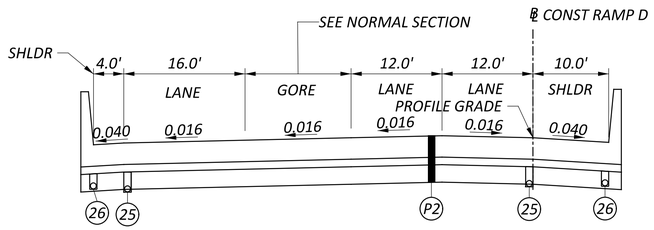
See comment regarding Curve D1 on sheet #3.

SHOULDER SECTION LEFT

STA. 305+00.13 TO STA. 306+86.48

WALL SECTION RIGHT

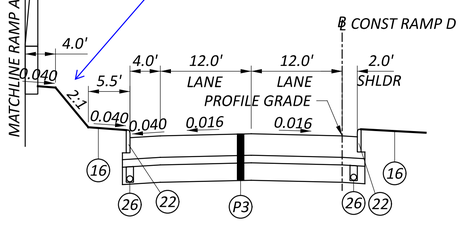
STA. 303+25.00 TO STA. 306+86.48



NORMAL SECTION RAMP D (APPROACH SLAB)

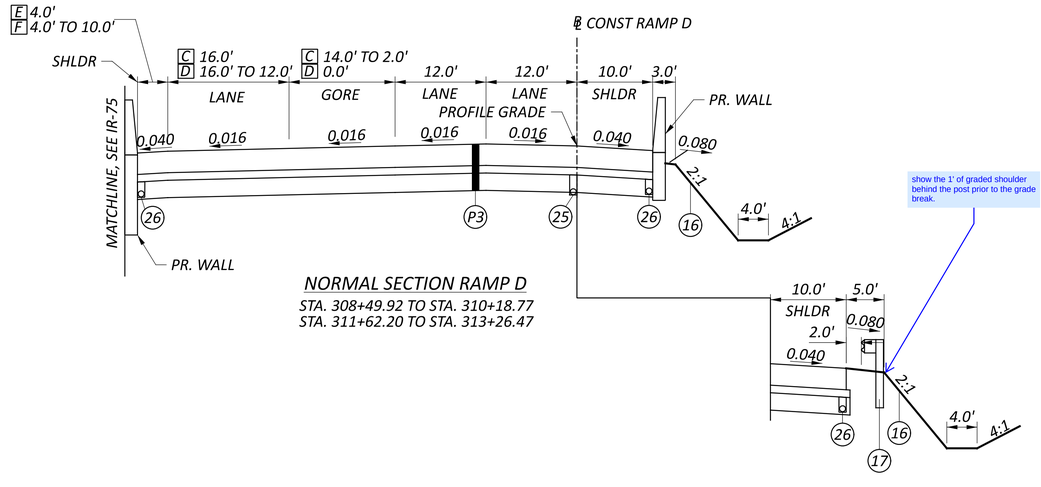
STA. 310+18.77 TO STA. 310+48.77
STA. 311+32.20 TO STA. 311+62.20

what's this dimension? varies?



NORMAL SECTION RAMP D

STA. 300+32.31 TO STA. 302+48.41



NORMAL SECTION RAMP D

STA. 308+49.92 TO STA. 310+18.77
STA. 311+62.20 TO STA. 313+26.47

SHOULDER SECTION RIGHT

STA. 311+62.20 TO STA. 313+26.47

312+09.35

+ = 0.070 MAX GRADE BREAK
* = 0.040 OR RATE OF SUPER IF GREATER

NOTE: SEE SUPERELEVATION TABLE FOR ADDITIONAL INFORMATION AND TRANSITION RANGES

FOR LEGEND SEE SHEET P.6

PROPOSED TYPICAL SECTION - RAMP D

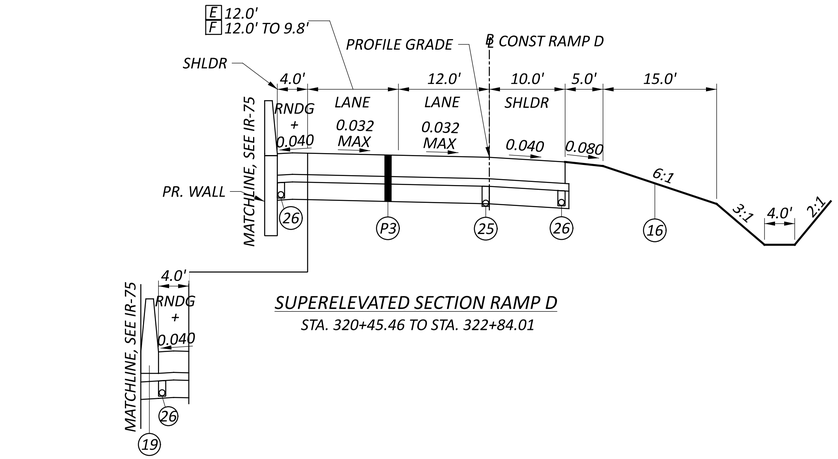
HAM-75-1.95

MODEL: Typical Sections - PR RAMP D [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:05:56 AM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\RoadwaySheets\114161_GY003.dgn

DESIGN AGENCY: EMHT
DESIGNER: SJB
REVIEWER: MJR 06/21/24
PROJECT ID: 114161
SHEET: P.17
TOTAL: 463

PROPOSED TYPICAL SECTION - RAMP D AND G

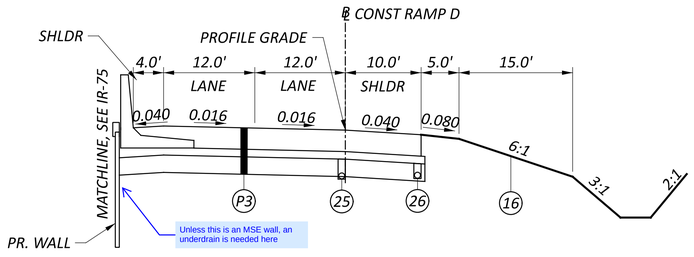
A STA. 503+74.62 TO STA. 504+45.52
B STA. 504+45.52 TO STA. 504+95.52
C STA. 504+95.52 TO STA. 506+23.23
D STA. 506+23.23 TO STA. 506+47.97
E STA. 320+45.46 TO STA. 321+19.48
F STA. 321+19.48 TO STA. 322+84.01



SUPERELEVATED SECTION RAMP D
STA. 320+45.46 TO STA. 322+84.01

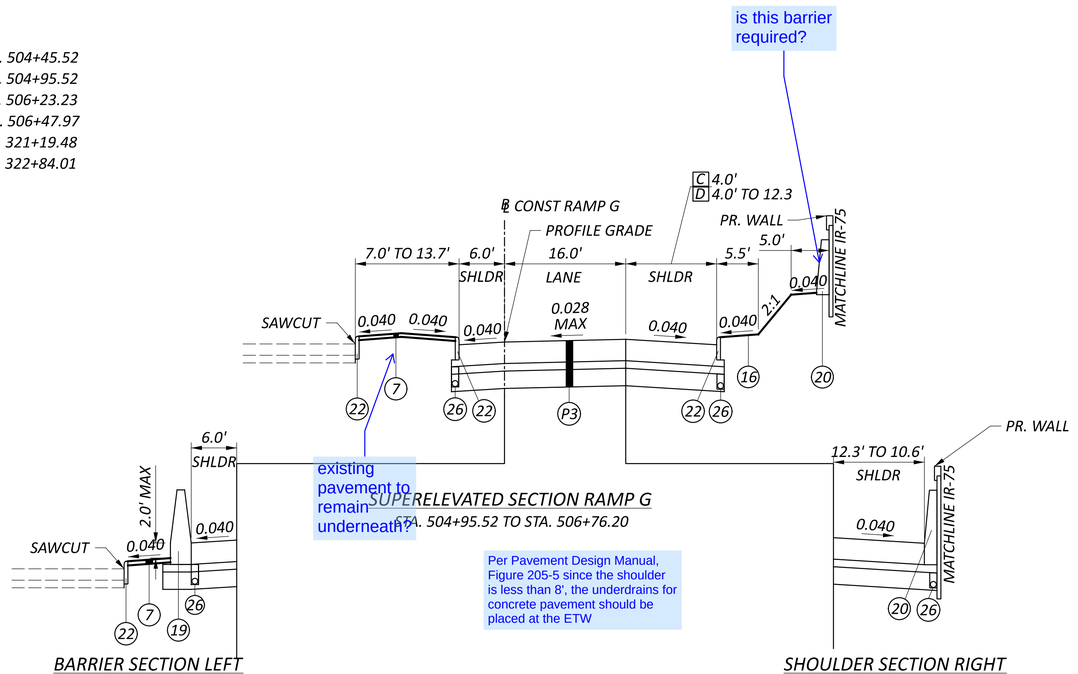
BARRIER SECTION LEFT
STA. 321+10.27 TO STA. 322+84.01

93.86 per plan view



NORMAL SECTION RAMP D
STA. 316+12.56 TO STA. 320+45.46

STA. 314+85.10 TO STA. 316+12.56 (SEE INTERSECTION DETAILS)

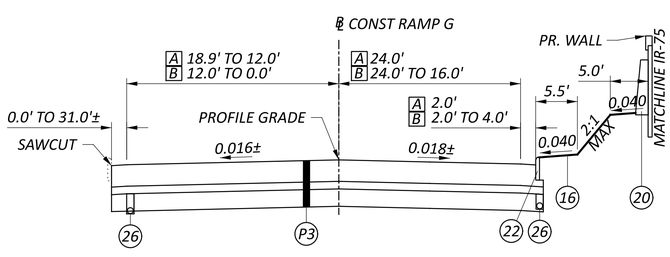


BARRIER SECTION LEFT
STA. 505+58.96 TO STA. 506+76.20

SUPERELEVATED SECTION RAMP G
STA. 504+95.52 TO STA. 506+76.20

Per Pavement Design Manual, Figure 205-5 since the shoulder is less than 8', the underdrains for concrete pavement should be placed at the ETW

SHOULDER SECTION RIGHT
STA. 506+47.97 TO STA. 506+76.20



NORMAL SECTION RAMP G
STA. 503+74.62 TO STA. 504+95.52

Per Pavement Design Manual, Figure 205-5 since the shoulder is less than 8', the underdrains for concrete pavement should be placed at the ETW

\+ = 0.070 MAX GRADE BREAK
* = 0.040 OR RATE OF SUPER IF GREATER

NOTE: SEE SUPERELEVATION TABLE FOR ADDITIONAL INFORMATION AND TRANSITION RANGES

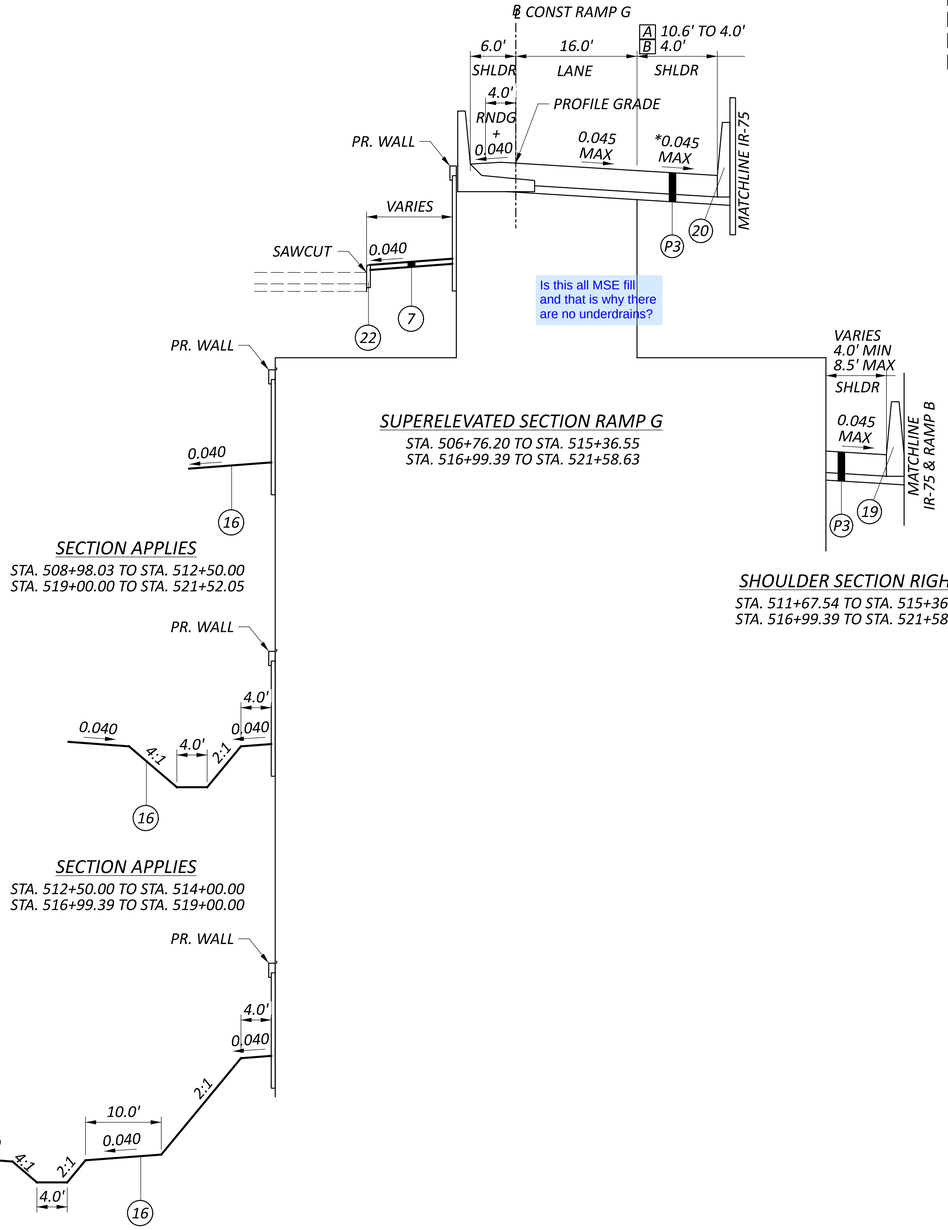
FOR LEGEND SEE SHEET P.6

DESIGN AGENCY
EMH&T

DESIGNER SJB
REVIEWER MJR 06/21/24
PROJECT ID 114161
SHEET P.18 TOTAL 463

HAM-75-1.95

MODEL: Typical Sections - PR RAMP D-G [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/20/2024 TIME: 7:05:57 AM USER: sbeal
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SUPERELEVATED SECTION RAMP G
STA. 506+76.20 TO STA. 515+36.55
STA. 516+99.39 TO STA. 521+58.63

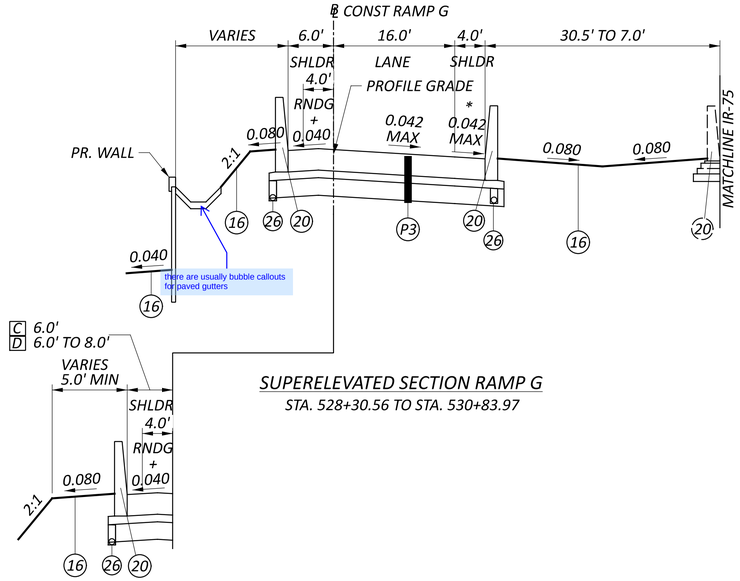
SHOULDER SECTION RIGHT
STA. 511+67.54 TO STA. 515+36.55
STA. 516+99.39 TO STA. 521+58.63

SECTION APPLIES
STA. 508+98.03 TO STA. 512+50.00
STA. 519+00.00 TO STA. 521+52.05

SECTION APPLIES
STA. 512+50.00 TO STA. 514+00.00
STA. 516+99.39 TO STA. 519+00.00

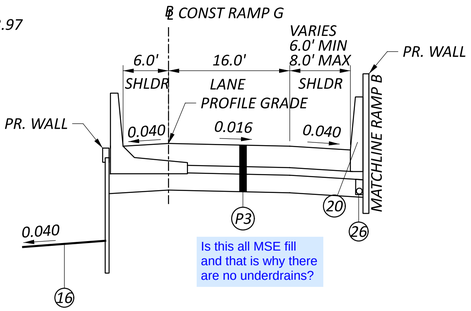
SECTION APPLIES
STA. 514+00.00 TO STA. 515+36.55

A STA. 506+76.20 TO STA. 508+65.80
B STA. 508+65.80 TO STA. 511+67.54
C STA. 529+32.01 TO STA. 530+33.60
D STA. 530+33.60 TO STA. 530+83.97

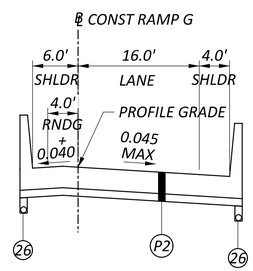


SUPERELEVATED SECTION RAMP G
STA. 528+30.56 TO STA. 530+83.97

SECTION APPLIES
STA. 529+32.01 TO STA. 530+83.97



NORMAL SECTION RAMP G
STA. 521+58.63 TO STA. 526+88.14



SUPERELEVATED SECTION RAMP G (APPROACH SLAB)
STA. 515+36.55 TO STA. 515+66.55
STA. 516+69.39 TO STA. 516+99.39
STA. 526+88.14 TO STA. 527+18.14
STA. 527+00.56 TO STA. 528+30.56

\+ = 0.070 MAX GRADE BREAK
* = 0.040 OR RATE OF SUPER IF GREATER

NOTE: SEE SUPERELEVATION TABLE FOR ADDITIONAL INFORMATION AND TRANSITION RANGES

FOR LEGEND SEE SHEET P.6

PROPOSED TYPICAL SECTION - RAMP G

HAM-75-1.95

MODEL: Typical Sections - PR RAMP G [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:05:58 AM USER: sbeal
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.19 TOTAL 463

UTILITIES

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

ELECTRIC:
DUKE ENERGY (DISTRIBUTION)
2010 DANA AVE
CINCINNATI, OH 45207
513-508-9609 (SHANE ERHART)
SHANE.ERHART@DUKE-ENERGY.COM

GAS:
DUKE ENERGY
139 EAST 4TH ST., ROOM 460A
CINCINNATI, OH 45202
513-287-1460 (BRAD STEINMETZ)
OH/KYHOUSEBILL@DUKE-ENERGY.COM

TELEPHONE:
CINCINNATI BELL AERIAL & PLACING
221 E. 4TH ST, BLDG. 121-900
CONCINNATI, OH 45201
513-565-1418 (JASON NUNNELLEY)
ROADPROJECTS@CINBELL.COM

CINCINNATI BELL UNDERGROUND STRUCTURES
221 E. 4TH ST, BLDG. 121-900
CONCINNATI, OH 45201
513-565-7187 (BRECK COWAN)
ROADPROJECTS@CINBELL.COM

WATER:
GREATER CINCINNATI WATER WORKS
3845 EASTERN AVE
CINCINNATI, OH 45226
513-352-3723 (DAN LOUIS)
DANIAL.LOUIS@GCWW.CINCINNATI-OH.GOV

SEWER:
CINCINNATI METROPOLITAN SEWER DISTRICT
1600 GEST STREET
CINCINNATI, OH 45204
DESIGN: 513-557-7188 (ROB FRANKLIN)
MSDUTILITYREVIEW@CINCINNATI-OH.GOV
CONSTRUCTION: 513-244-1369 (ALICE OLIVER)
ALICE.OLIVER@CINCINNATI-OH.GOV

TRAFFIC:
CITY OF CINCINNATI TRAFFIC
801 PLUM ST, ROOM 320
CINCINNATI, OH 45202
513-378-6190 (ANDREW CARTER)
ANDREW.CARTER@CINCINNATI-OH.GOV

CABLE:
LUMEN (FORMERLY CENTURYLINK)
9490 MERIDIAN WAY
WEST CHESTER, OH 45069
513-255-5626 (BRUCE MILLER)
RELOCATIONS@LUMEN.COM

MCI/VERIZON
120 RAVINE ST
AKRON, OH 44303
330-253-8267 (AL GUEST)
ALLAN.GUEST@VERIZONBUSINESS.COM

CABLE (CON'T.)

AT&T TRANSMISSION LONG DISTANCE
7555 E. PLEASANT VALLEY RD. SUITE 140
INDEPENDENCE, OH 44131
216-750-0135 (MICHAEL DIEDERICH)
MD4145@ATT.COM

ATT METRO/LNS
THAYER POWER AND COMMUNICATION
LINE CONSTRUCTION CO., LLC
950 FREEWAY DRIVE N.
COLUMBUS, OH 43229
614-431-9292 (CHRISTOPHER MCCLOSKEY)
CHRISMCCLOSKEY@THAYERPC.COM

WINDSTREAM-KDL
65 E. WINNERLINE RD
EATON, OH 45320
937-260-3062 (LEON TAYLER)
LEON.TAYLER@WINDSTREAM.COM

CROWN CASTLE FIBER
10188 INTERNATIONAL BOULEVARD
CONCINNATI, OH 45246
614-506-2846 (CRAIG WHEELER)
CRAIG.WHEELER@CROWNCASTLE.COM

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.

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.

ROUNDING

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

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

POSITIONING METHOD: SYTATIC GLOBAL POSITIONING SURVEYING
MONUMENT TYPE: CONCRETE MONUMENT

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
GEOID: GEOID 18

HORIZONTAL POSITIONING (STATE PLANE OR OCCS) STATE PLANE COORDINATE SYSTEM
REFERENCE FRAME: NSRS 2011, SOUTH ZONE
ELLIPSOID: GRS 80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: NORTH AMERICAN DATUM OF 1983 (NAD 83)
COMBINED SCALE FACTOR: 1.00007188
ORIGIN OF COORDINATE
SYSTEM: 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.

GENERAL NOTES

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:06:09 AM USER: sbeal
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DESIGN AGENCY
EMH&T

DESIGNER
JDK

REVIEWER
MJR 06-21-24

PROJECT ID
114161

SHEET P.20 | TOTAL 463

LEGEND

- PAVEMENT PLANING AND OVERLAY

STRUCTURE NO.
HAM-75-0191
SFN: 3109306

BEGIN PROJECT
STA. 102+00.00
S.L.M. = 1.94

E210 (239)

WESTERN AVE

WINCHELL AVE

FINDLAY ST

℄ CONST WINCHELL AVE

WALL 002A

WALL 001A

WALL 001C

WALL 002B

60" STM

EX LIGHT POLE (TBR)

EX OVERHEAD SIGN (TBR)

EX SIGN (TBR)

EX GUARDRAIL (TBR)

EX FENCE (TBR)

EX CONC BARRIER (TBR)

EX WALL (TBR)

PR CONC BARRIER, TYPE D

PR CONC BARRIER, TYPE C1

PR LIGHT POLE (TYP)

+00.00, BEGIN CONC BARRIER, TYPE D

+00.00, BEGIN CONC BARRIER, TYPE C1

1,219.09'
N29°45'16"W

+86.94, BEGIN SHLDR TAPER

+96.14, END SHLDR TAPER

+94.12

IR 75 (SB)

IR 75 (NB)

℄ CONST IR 75

℄ CONST RAMP G

CONST LIMITS

RAMP G

RAMP B

CURVE 1

MATCH LINE STA. 110+50, SEE SHEET P.22

PC STA. 107+64.89

D1 D10 D11 D12 D18 D19 D20 D21 D22 D23 D27 D28 D29 D30 D31 D37 D38 D39 D40 D43 D44 D45 D46

Any special detail for the moment slab barrier in relation to the inlet design?

add a note that the storm continues with the next project

moment slab barrier and not a roadway type D. It has Type D shape.

Type C1 end anchors to be provided on either side of the inlet expansion joint. Since C1 barriers do not have a standard anchor drawing a specific detail will need provided. Typical comment.

barrier not labeled

label the side roads

no manholes in the pavement

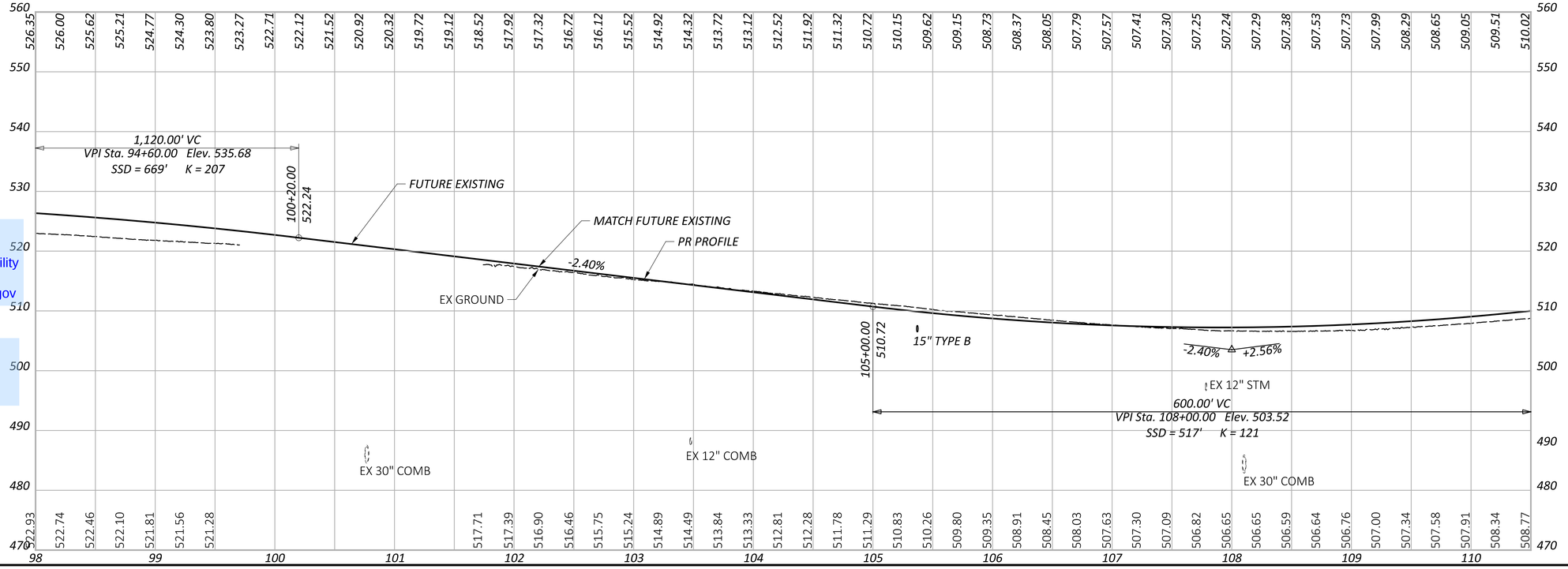
Probably need a long end anchor detail between these inlets. Typical comment.

Will need detail for the anchors and light foundation since type C1. Typical comment.

What are the nearby catch basins for? Would Manholes be better? I dont see sizes, but I assume the pipes cant connect from inlet to inlet?

CURVE 1
P.I. = STA. 114+25.91
Δ = 35°12'18" RT
Dc = 02°45'00"
R = 2,083.48'
T = 661.02'
L = 1,280.18'
E = 102.35'
Emax = 0.048

NOTE TO REVIEWERS:
THE DESIGN SOUTH OF STA 102+00 WILL BE REFINED IN STAGE 2 WITH ONGOING COORDINATION AND CONSTRUCTION SCHEDULE OF HAM-75-1.05, PID 113361.



Please provide utility responses, utility coordination log, and utility conflict list/matrix to lucas.braun@dot.ohio.gov

Are any reimbursable utilities expected? GCWW work to be included in plans?

HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - IR 75
STA 98+00 TO STA 110+50

DESIGN AGENCY
EMH&T

DESIGNER
SJB

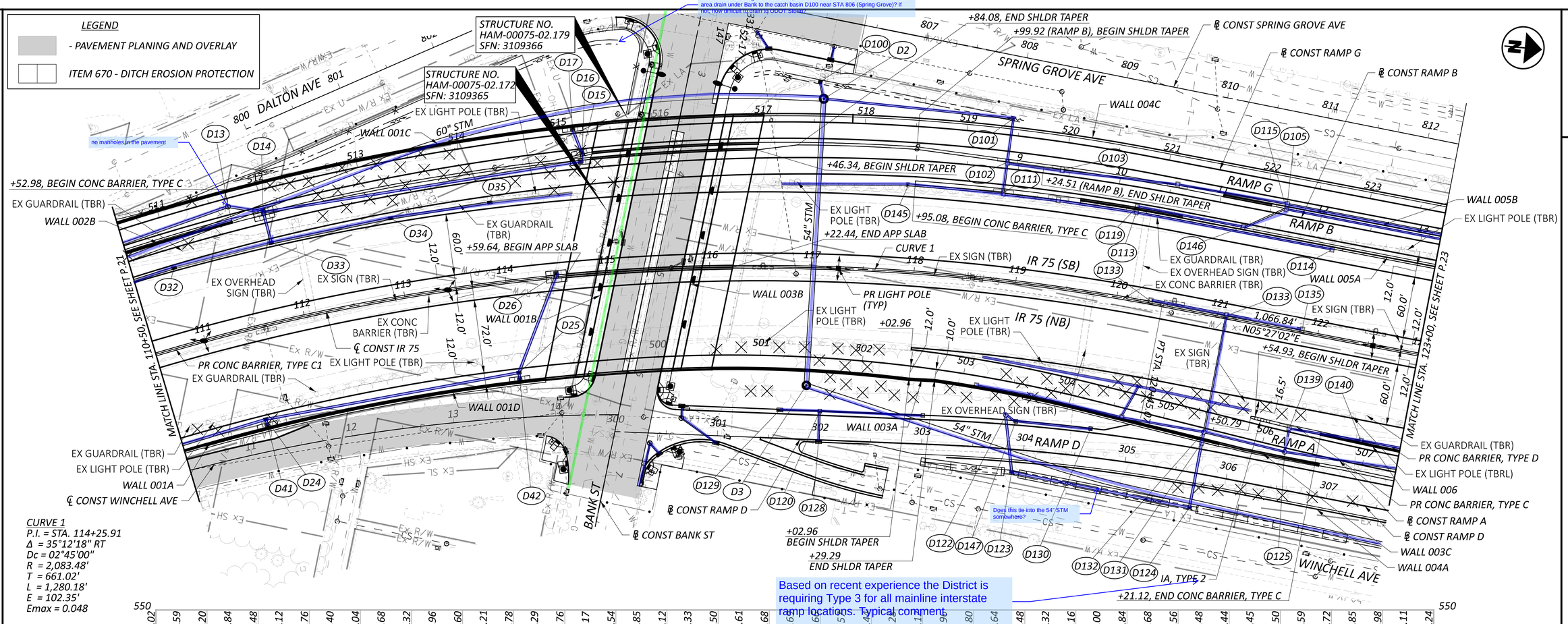
REVIEWER
MJR 06/21/24

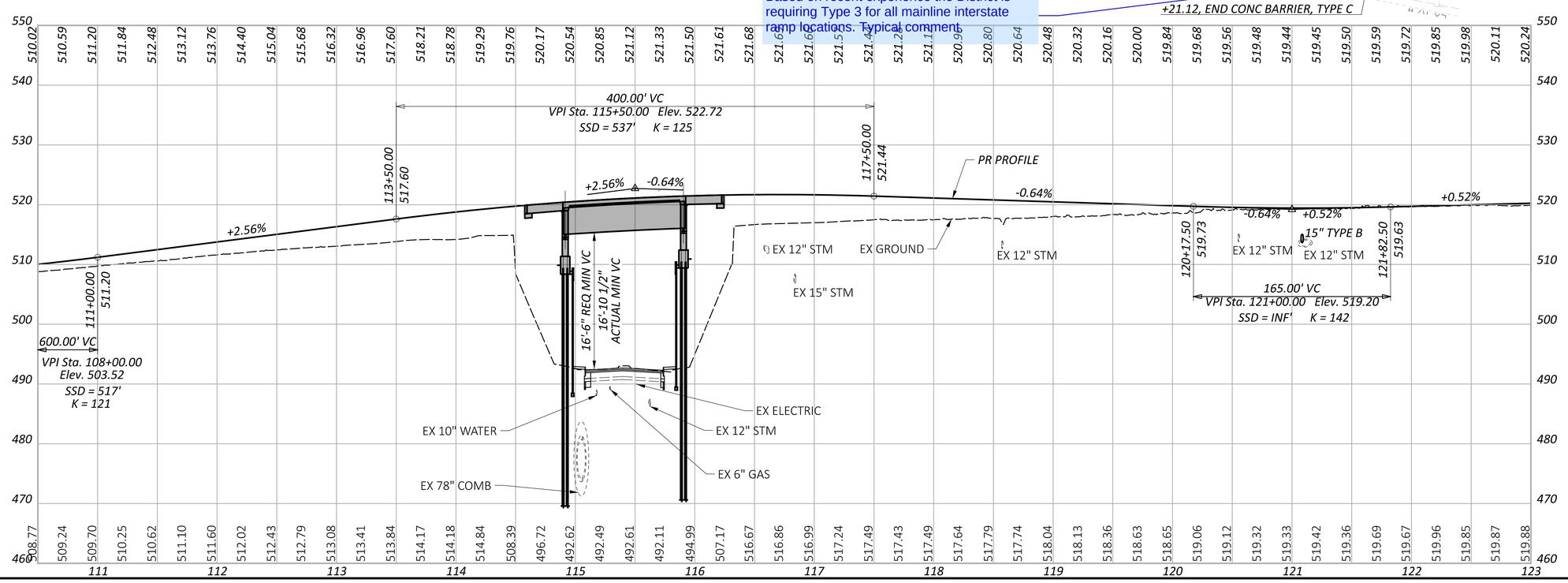
PROJECT ID
114161

SHEET P.21 TOTAL 463

HAM-75-1.95

MODEL: IR75 Mainline - Sheet1 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:46:16 PM USER: sbeal
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PLAN AND PROFILE - IR 75
STA 110+50 TO STA 123+00

DESIGN AGENCY: EMHT
DESIGNER: SJB
REVIEWER: MJR 06/21/24
PROJECT ID: 114161
SHEET: P.22
TOTAL: 463

HAM-75-1.95

MODEL: IR75 Mainline - Sheet2 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:46:40 PM USER: sbeal
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LEGEND

- PAVEMENT PLANING AND OVERLAY
- ITEM 670 - DITCH EROSION PROTECTION

Can the type D stay along mainline and connect to the bridge parapet? See red line. Can fill in between the D and wall with a cap.

Label reduced shoulder width

Is this draining to MSD CS? How difficult would it be to discharge other than to MSD? We need to have a discussion for these instances.

confirm arrows and added basin location

gap in barrier

CURVE 2
P.I. = STA. 135+97.72
Δ = 14°29'47" RT
Dc = 01°30'00"
R = 3,819.72'
T = 485.81'
L = 966.42'
E = 30.77'
Emax = 0.032

HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - IR 75
STA 123+00 TO STA 135+50

DESIGN AGENCY: EMH&T
DESIGNER: SJB
REVIEWER: MJR 06/21/24
PROJECT ID: 114161
SHEET: P.23 TOTAL: 463

HAM-75-1.95

MODEL: IR75 Mainline - Sheet3 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:46:46 PM USER: sbeal
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LEGEND

ITEM 670 - DITCH EROSION PROTECTION

- WESTERN HILLS VIADUCT SUBWAY PORTALS

+48.08
BEGIN CONC BARRIER, TYPE C

WALL 009C
WALL 009A

+69.28 (IR 75)
EX GUARDRAIL (TBR)
EX SIGN (TBR)
CONC BARRIER, TYPE D

MATCH LINE STA. 133+50, SEE SHEET P.23

There is a 200' overlap in match lines. Not sure if that is intentional or not

WALL 010A
WALL 010B

RAMP D

EX DITCH

℄ CONST RAMP D

D217
D300
D5

+67.02
END CONC BARRIER, TYPE D
BEGIN CONC BARRIER, TYPE C

I think this should be 301

CURVE 2
P.I. = STA. 135+97.72
Δ = 14°29'47" RT
Dc = 01°30'00"
R = 3,819.72'
T = 485.81'
L = 966.42'
E = 30.77'
Emax = 0.032

+70.63 (RAMP C), BEGIN SHLDR TAPER

℄ CONST RAMP C

+48.08
BEGIN CONC BARRIER, TYPE C

+02.41, BEGIN PVMT TAPER
+02.41, END PVMT TAPER

RAMP C

EX OVERHEAD SIGN (TBR)
EX GUARDRAIL (TBR)

PR CONC BARRIER, TYPE C1
PR LIGHT POLE (TYP)
℄ CONST IR 75

CURVE 2

EX SIGN (TBR)
EX LIGHT POLE (TBR)

+22.09
+46.74

EX GUARDRAIL (TBR)
EX SIGN (TBR)
EX LIGHT POLE (TBR)
PR GUARDRAIL, TYPE MGS

IR 75 (SB)
IR 75 (NB)
142+90.78

AA, TYPE E

PR CONC BARRIER, TYPE C

PR CONC BARRIER, TYPE C
PR CONC BARRIER, TYPE D
WALL 011

EX FENCE (TBR)

MATCH LINE STA. 146+00, SEE SHEET P.25

+20.47 (RAMP C), BEGIN CURB, TYPE 4C
+32.88 (RAMP C), END SHLDR TAPER

EX GUARDRAIL (TBR)

+80.19

EX CANTILEVER SIGN (TBR)
EX SIGN (TBR)

EX LIGHT POLES (TBR)

Please include drainage flow direction arrows. Will the plans have tables for the Drainage pipes per Sample Plan 1312-4(b)?

confirm there isnt a constructibility issue here between pipes

Specify for the guardrail to deflect per MGS-6.1 to ensure a 2' offset from edge of shoulder is provided along the Type E. Might need to extend footprint to achieve this.

end anchor

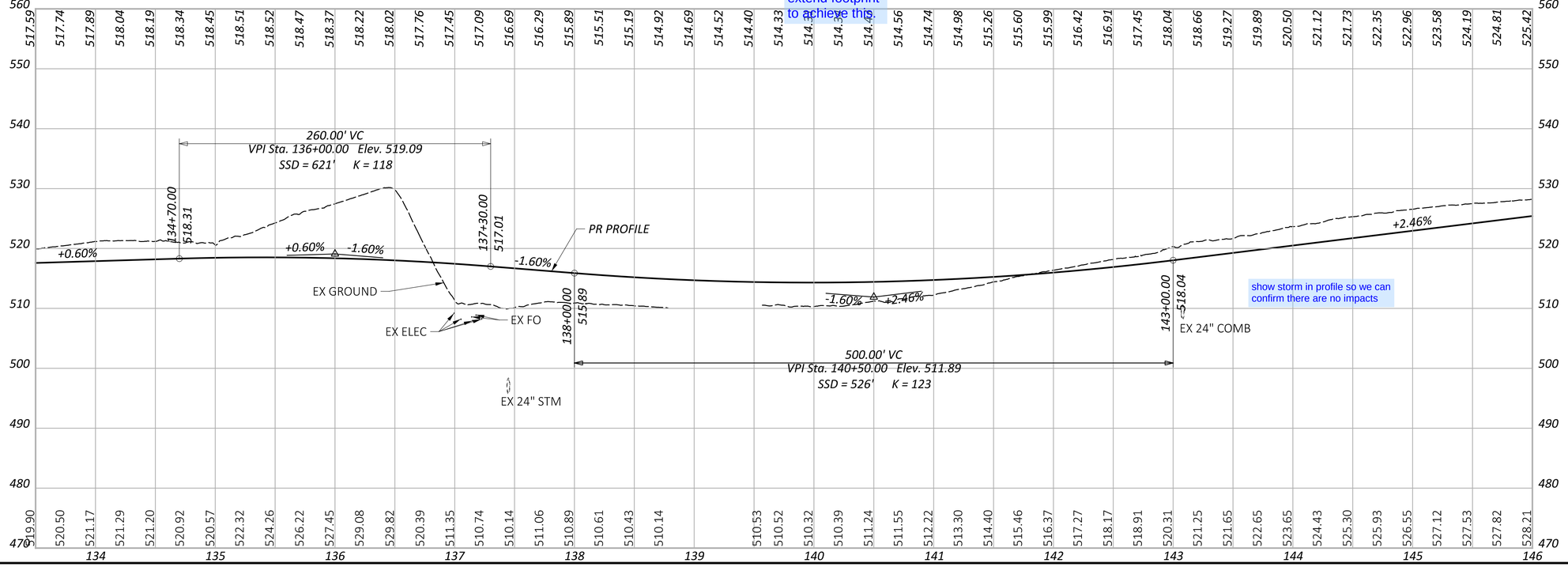
EX GUARDRAIL (TBR)
BTA, TYPE 1

LON = +80.67

+99.93, BEGIN SHLDR TAPER
+40.93, END SHLDR TAPER

D318 D319 D320 D315 D314 D326 D322 D317 D316 D321 D328 D329 D323 D327 D313 D308 D309 D310 D312 D302 D307 D311 D306 D305 D304

HORIZONTAL SCALE IN FEET
0 25 50 100



PLAN AND PROFILE - IR 75
STA 133+50 TO STA 146+00

DESIGN AGENCY: EMH&T

DESIGNER: SJB
REVIEWER: MJR 06/21/24
PROJECT ID: 114161
SHEET: P.25 TOTAL: 463

HAM-75-1.95

MODEL: IR75 Mainline - Sheet4 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:47:19 PM USER: sbeal
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LEGEND
- PAVEMENT PLANING AND OVERLAY
- WESTERN HILLS VIADUCT SUBWAY PORTALS

+21.25 (RAMP C), END CURB, TYPE 4C
+26.94, BEGIN SHLDR TAPER RT
+50.00
END FULL DEPTH PVMT
BEGIN PVMT PLANING AND OVERLAY
BEGIN PVMT WIDENING
+34.84, END SHLDR TAPER RT

BTA, TYPE 2
EX GUARDRAIL (TBR)
PR GUARDRAIL, TYPE MGS
℄ CONST RAMP C
D325
RAMP C
D324
EX GUARDRAIL (TBR)
D330
EX WALL (DND)
EX CONC BARRIER (DND)
+70.17 (IR 75)
EX WALL (DND)
IR 75 (SB)
EX OVERHEAD SIGN (TBR)
EX CONC BARRIER (TBR)
1,352.55'
N19°55'49"E
EX LIGHTPOLE (TBR)
EX LIGHTPOLE (TBR)
PR LIGHT POLE (TYP)
EX LIGHTPOLE (TBR)
EX LIGHTPOLE (TBR)
IR 75 (NB)
PR CONC BARRIER, TYPE D WALL 011
PR CONC BARRIER, TYPE C
PR CONC BARRIER, TYPE C1
EX FENCE (TBR)
+40.89, BEGIN SHLDR TAPER
MATCH LINE STA. 146+00, SEE SHEET P.24
16.5'
16.0'
+07.66
60.0'
12.0'
+40.64
8.0'
66 67 68 69 70 146 147 148 149 150 151 152 153 154 155 156 157 158

Is the existing storm staying or being replaced?

PC STA. 154+30.88
12.0' 12.0' 72.0'
℄ CONST IR 75
PR GUARDRAIL, TYPE MGS
SAWCUT
EX GUARDRAIL (TBR)
AA, TYPE E
EX CCTV CAMERA TOWER AND CONTROLLER (DND)
EX GUARDRAIL (DND)
CURVE 3
+82.00, END CONC BARRIER, TYPE C1
12.0'
25.0'
MATCH LINE STA. 158+50, SEE SHEET P.26

end anchor

Why is the paved shoulder widening so much here?

+91.53
END SHLDR TAPER
BEGIN SHLDR TAPER

LON = +75.75

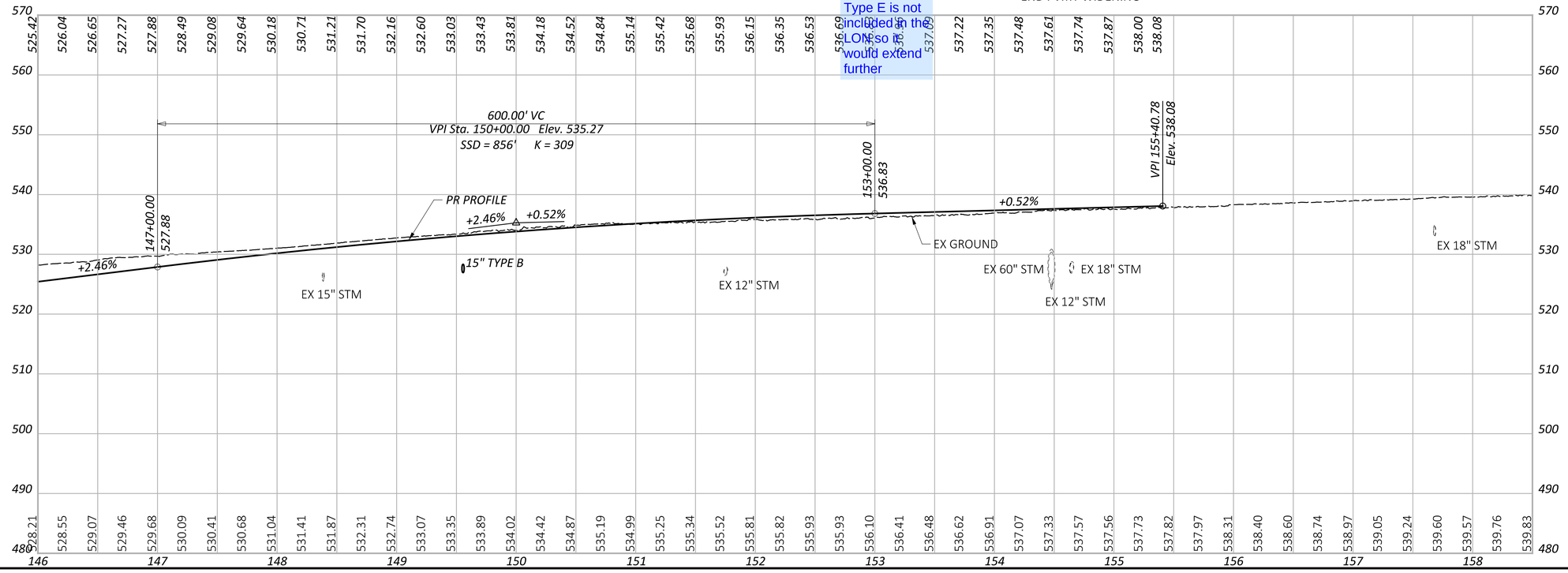
12.5' of the Type E is not included in the LON, so it would extend further

+40.78
END SHLDR TAPER
END PVMT WIDENING

Typically Type E's are placed parallel to traffic. This is on an angle. Would a Type B apply?

CURVE 3
P.I. = STA. 163+68.90
Δ = 36°15'37" LT
Dc = 02°00'00"
R = 2,864.79'
T = 938.02'
L = 1,813.01'
E = 149.66'
Emax = 0.030

HORIZONTAL SCALE IN FEET
0 25 50 100



PLAN AND PROFILE - IR 75
STA 146+00 TO STA 158+50

DESIGN AGENCY
EMH&T
DESIGNER SJB
REVIEWER MJR 06/21/24
PROJECT ID 114161
SHEET P.24 TOTAL 463

HAM-75-1.95

MODEL: IR75 Mainline - Sheet5 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:47:25 PM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GP002.dgn

LEGEND

- PAVEMENT PLANING AND OVERLAY

+65.49
END PVMT PLANING AND OVERLAY

+17.07
BEGIN PVMT PLANING AND OVERLAY

MASSACHUSETTS AVE

EX R/W

MATCH LINE STA. 158+50, SEE SHEET P.25

EX GUARDRAIL (DND)

label size CS

EX CONC BARRIER (DND)

EX GUARDRAIL (DND)

159 160 161 162 163 164 165 166 167 168 169 170

EX R/W

EX R/W

EX GUARDRAIL (DND)

IR 75 (SB)

Marshall Avenue bridge deck placed high on PID 76257...permitted to remain in place as is by DCE. Approach southern approach slab transitions to match asphalt...i.e. dip. Opportunity to correct with this project if desirable.

John Otis response:
District staff reviewed the the deck and approaches and determined no additional work to be included with the project.

CURVE 3

EX CONC BARRIER (DND)

℄ CONST IR 75

IR 75 (NB)

MATCH LINE STA. 171+08, SEE SHEET BELOW

MARSHALL AVE

EX R/W

EX R/W

EX GUARDRAIL (DND)

CENTRAL PKWY

CURVE 3
P.I. = STA. 163+68.90
Δ = 36°15'37" LT
Dc = 02°00'00"
R = 2,864.79'
T = 938.02'
L = 1,813.01'
E = 149.66'
Emax = 0.030

HORIZONTAL SCALE IN FEET
0 25 50 100

MASSACHUSETTS AVE

+43.00
END PVMT PLANING AND OVERLAY

MATCH LINE STA. 171+00, SEE SHEET ABOVE

PT STA. 172+43.89

171 172 173 174 175 176 177 178

649.63'
N16°18'48"W

POT STA. 178+93.52

IR 75 (SB)

IR 75 (NB)

℄ CONST IR 75

E210 (239)

END PROJECT
STA. 173+43.00
S.L.M. = 3.31

END WORK
STA. 174+00.00

CENTRAL PKWY

PLAN - IR 75
STA 158+50 TO STA 178+93.52

DESIGN AGENCY
EMH&T

DESIGNER
SJB

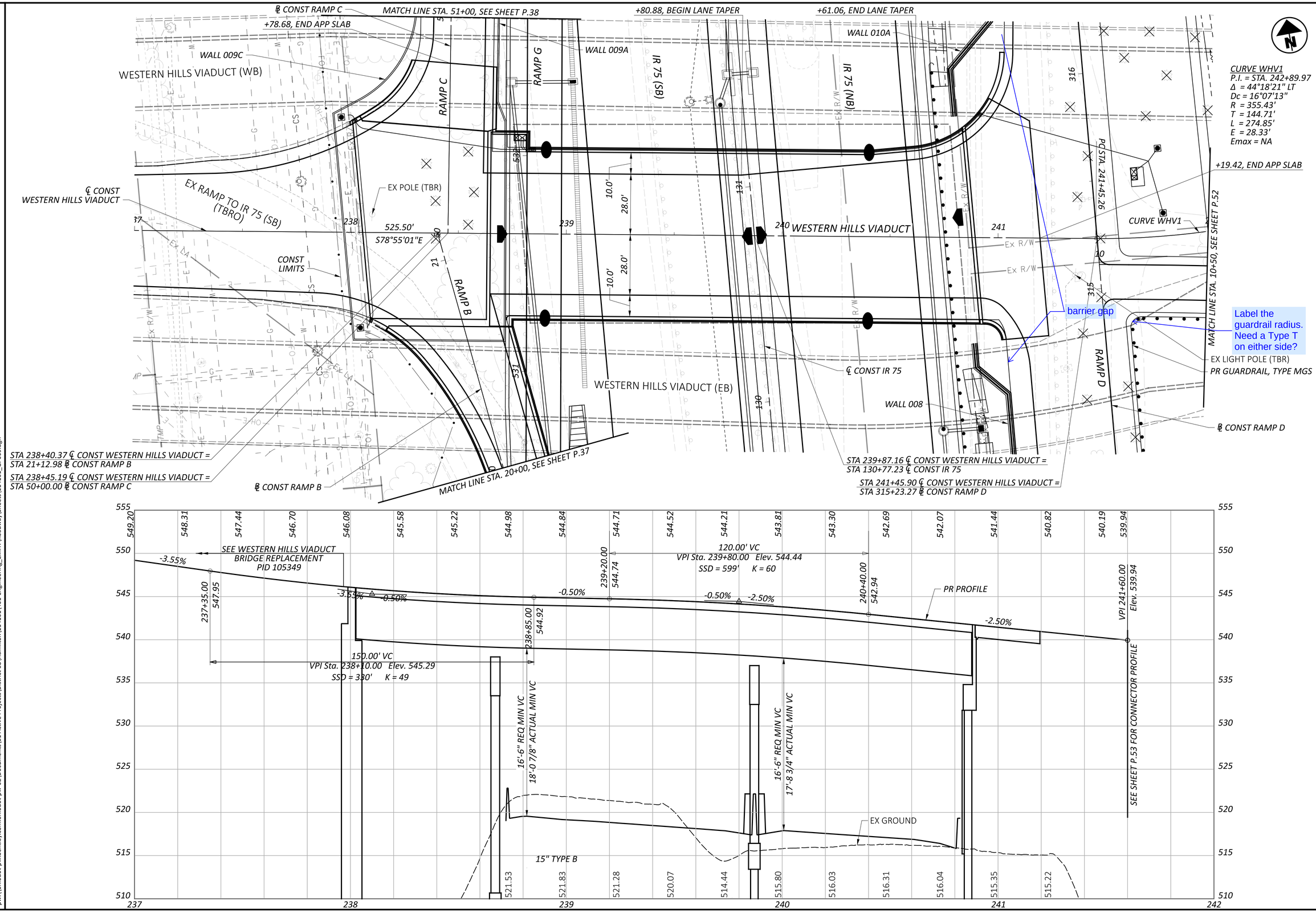
REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.26 | TOTAL 463

HAM-75-1.95

MODEL: IR75 Mainline - Sheet6 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:47:27 PM USER: sbeal
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PLAN AND PROFILE - WESTERN HILLS VIADUCT
STA 237+00.00 TO STA 242+00.00

DESIGN AGENCY	EMH&T
DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.27
TOTAL	463

HAM-75-1.95

MODEL: WHV - Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:47:49 PM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GP009.dgn

LEGEND

- PAVEMENT PLANING AND OVERLAY

STA 0+00.78 ℄ CONST WINCHELL AVE = INT ℄ CONST FINDLAY ST

+55.00 BEGIN CURB, TYPE 6 BEGIN PVMT TAPER

+05.00 END PVMT TAPER

IR 75 (NB)

+23.89 BEGIN CONC BARRIER, TYPE D

WALL 10 PER PID 113361

WALL 001A

EX FENCE (TBR)

EX STREET SIGN (TBRL)

EX CURB (TBR)

PR CURB, TYPE 6

POT STA. 0+00.00

WINCHELL AVE

433.49'

N33°00'26"W

℄ CONST WINCHELL AVE

+41.33, BEGIN PVMT PLANING AND OVERLAY

EX CURB (DND)

EX CONC TRAF ISLAND (DND)

EX CONC WALK (DND)

17.7'

18.1'

11.0'

18.0'

MATCH LINE STA. 3+50, SEE SHEET P.29

CONST LIMITS

FINDLAY ST

HULBERT AVE

EX R/W

EX CS

EX LA

EX SH

EX SL

EX HS

EX W

EX M

EX S

EX GROUND

EX 24" WATER

EX 12" STM

EX 12" STM

EX 30" COMB

525 520 515 510 505 500 495 490 485 480

-1 0 1 2 3

503.06 502.53 501.98 501.58 501.45 501.54 501.89 502.44 503.32 504.28 505.24 506.17 506.96 507.63 508.17

HORIZONTAL SCALE IN FEET

0 10 20 40

PLAN AND PROFILE - WINCHELL AVE STA 0+00.00 TO STA 3+50.00

DESIGN AGENCY

EMH&T

DESIGNER BLM

REVIEWER MJR 06-21-24

PROJECT ID 114161

SHEET P.28 TOTAL 463

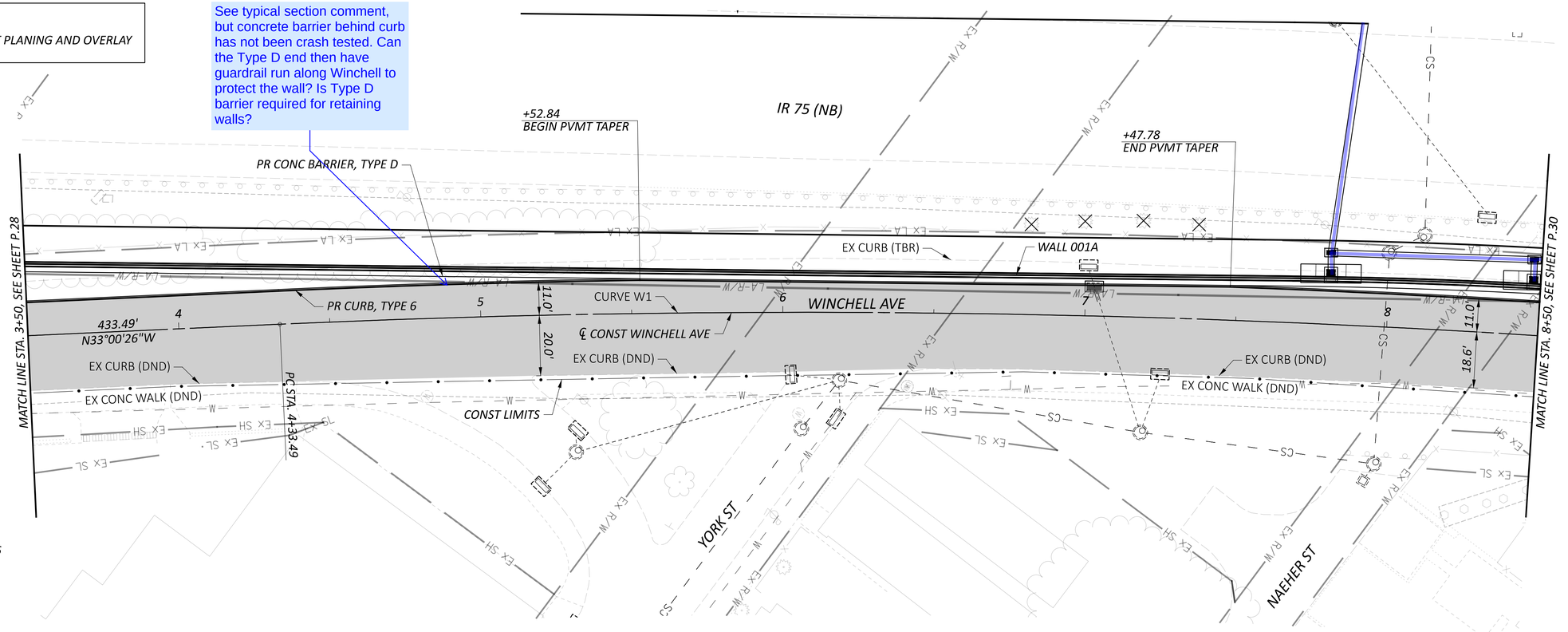
HAM-75-1.95

MODEL: WINCHELL AVE - Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:48:20 PM USER: sbeal
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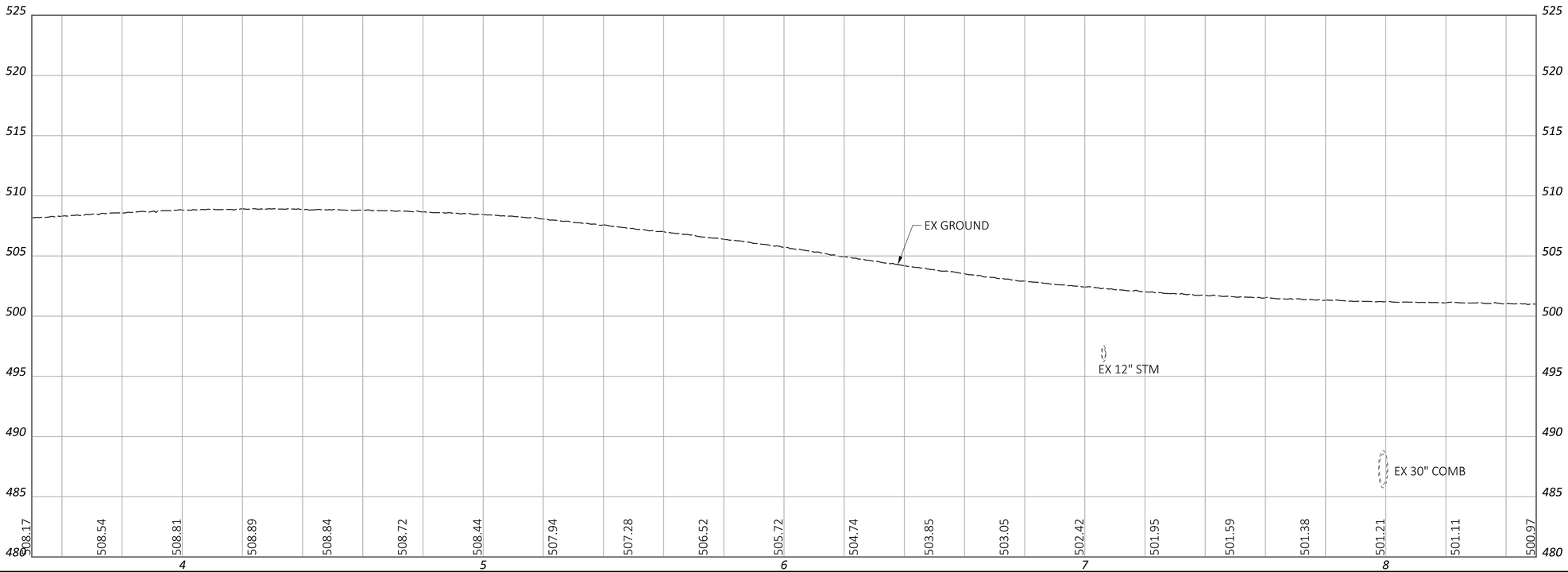
LEGEND

- PAVEMENT PLANING AND OVERLAY

See typical section comment, but concrete barrier behind curb has not been crash tested. Can the Type D end then have guardrail run along Winchell to protect the wall? Is Type D barrier required for retaining walls?



CURVE W1
P.I. = STA. 6+43.36
Δ = 06°17'27" RT
Dc = 01°30'01"
R = 3,819.21'
T = 209.88'
L = 419.33'
E = 5.76'



HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - WINCHELL AVE
STA 3+50.00 TO STA 8+50.00

DESIGN AGENCY
EMH&T

DESIGNER
BLM

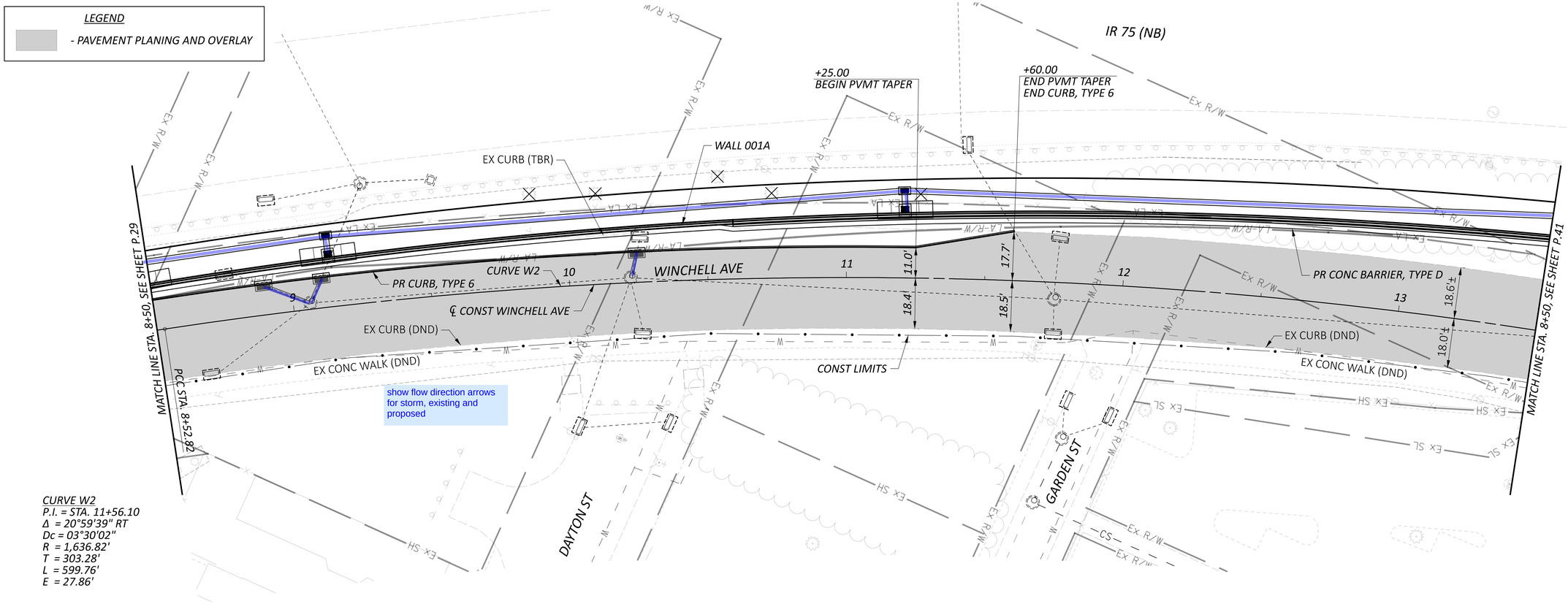
REVIEWER
MJR 06-21-24

PROJECT ID
114161

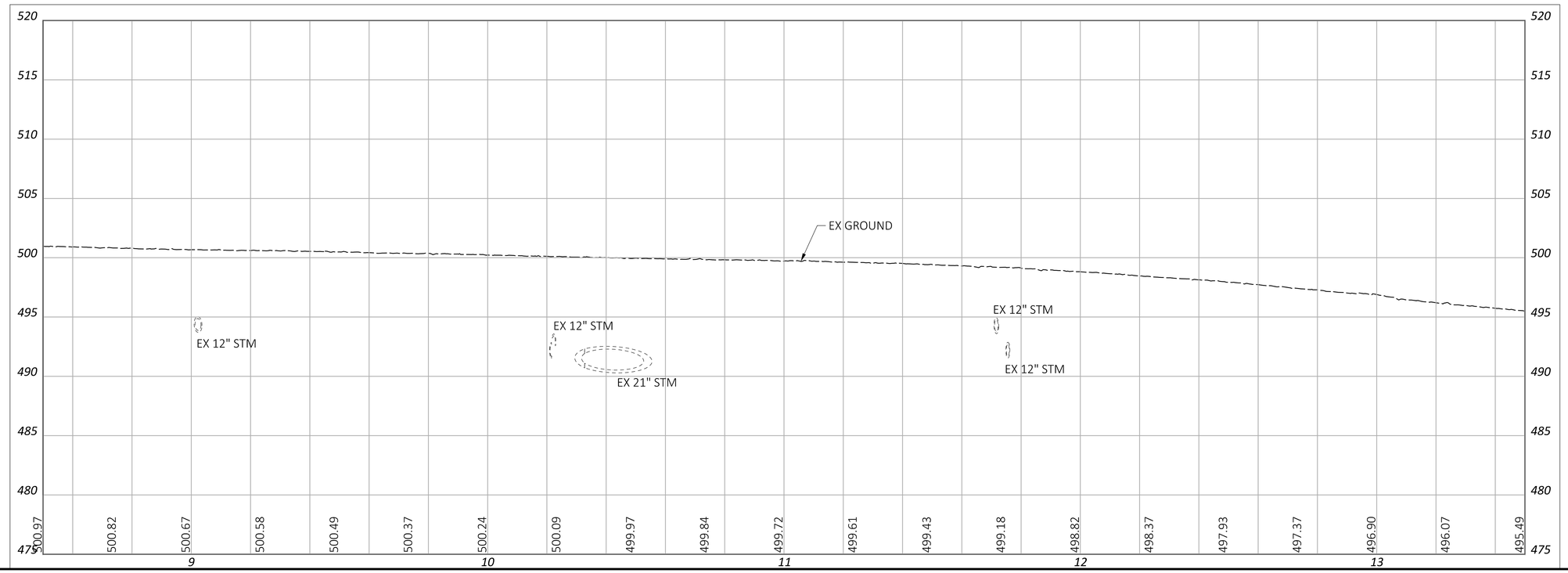
SHEET P.29 TOTAL 463

HAM-75-1.95

MODEL: WINCHELL AVE - Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:48:26 PM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GP012.dgn



CURVE W2
P.I. = STA. 11+56.10
Δ = 20°59'39" RT
Dc = 03°30'02"
R = 1,636.82'
T = 303.28'
L = 599.76'
E = 27.86'



HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - WINCHELL AVE
STA 8+50.00 TO STA 13+50.00

DESIGN AGENCY
EMH&T

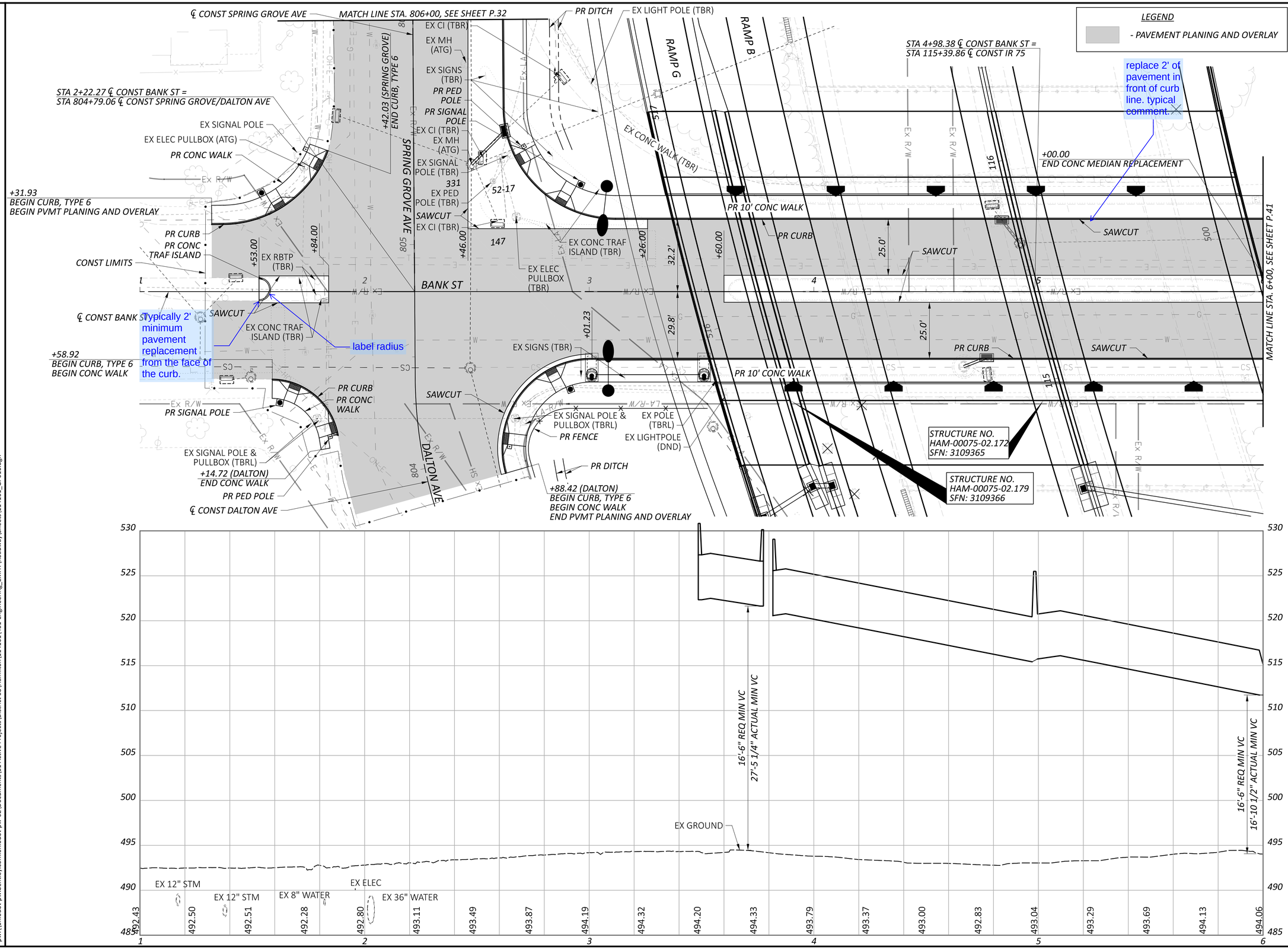
DESIGNER	BLM
REVIEWER	MJR 06-21-24
PROJECT ID	114161
SHEET	P.30
TOTAL	463

HAM-75-1.95

MODEL: WINCHELL AVE - Sheet 3 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:48:27 PM USER: sbeal
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HAM-75-1.95

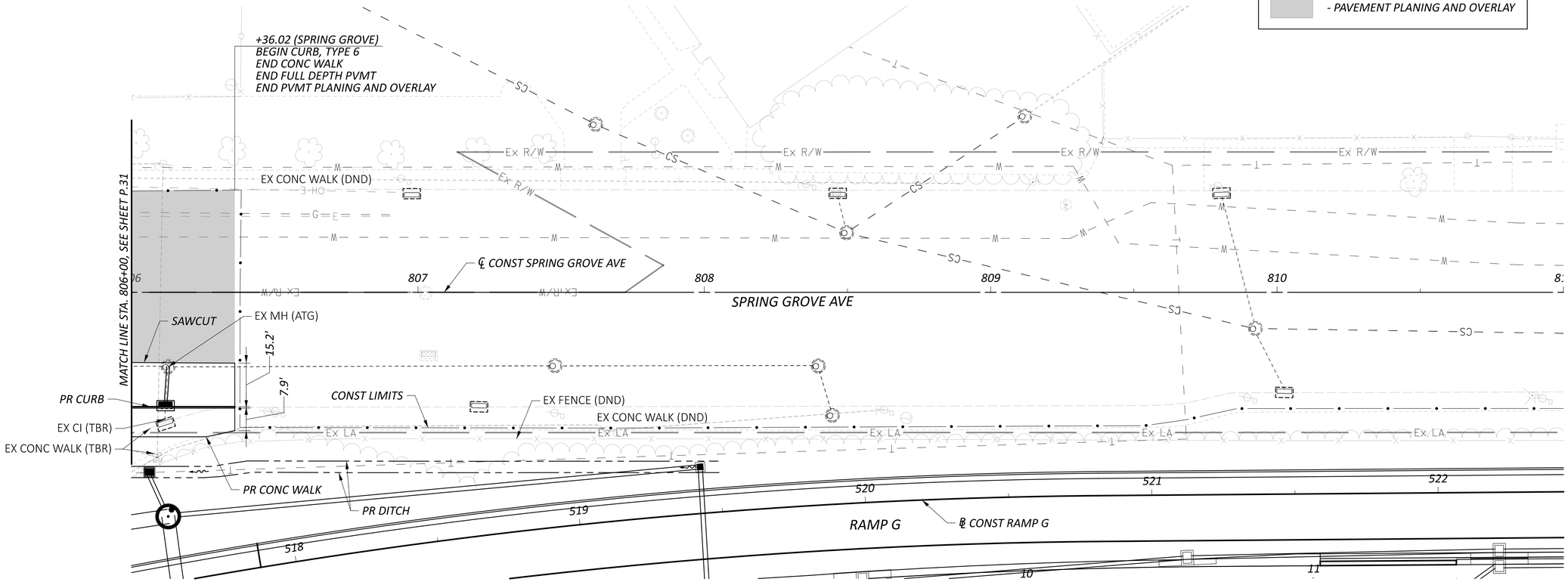
MODEL: BANK ST - Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:48:51 PM USER: sbeal
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PLAN AND PROFILE - BANK ST
STA 1+00.00 TO STA 6+00.00

DESIGN AGENCY
EMH&T

DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.31
TOTAL	463



HAM-75-1.95

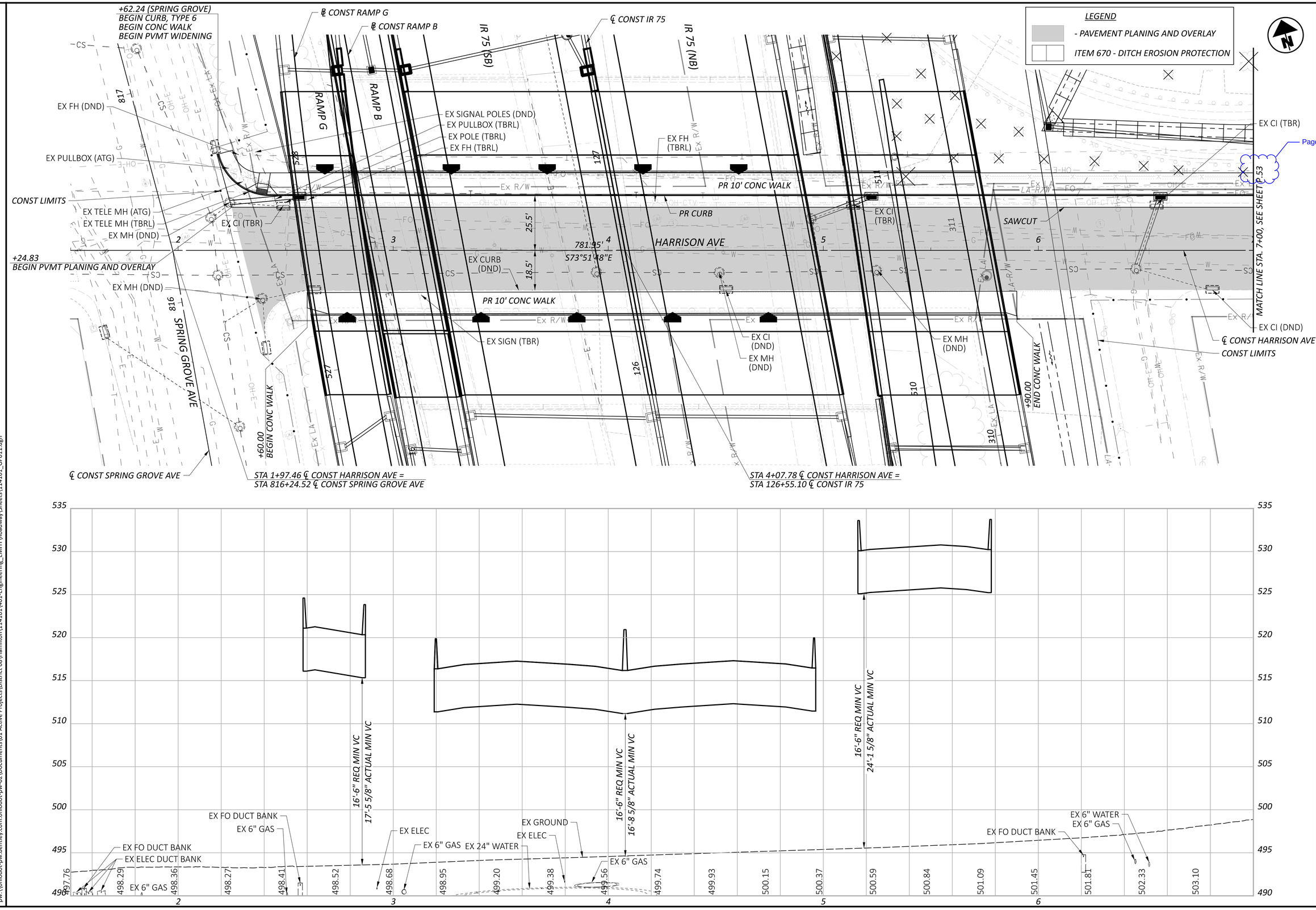
MODEL: SPRING GROVE - Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:48:56 PM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GP010.dgn

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - SPRING GROVE AVE
STA 806+00 TO STA 811+00

DESIGN AGENCY
EMHT

DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.32
TOTAL	463



PLAN AND PROFILE - HARRISON AVE
STA 1+50.00 TO STA 7+00.00

DESIGN AGENCY
E|M|H&T

DESIGNER
SJB

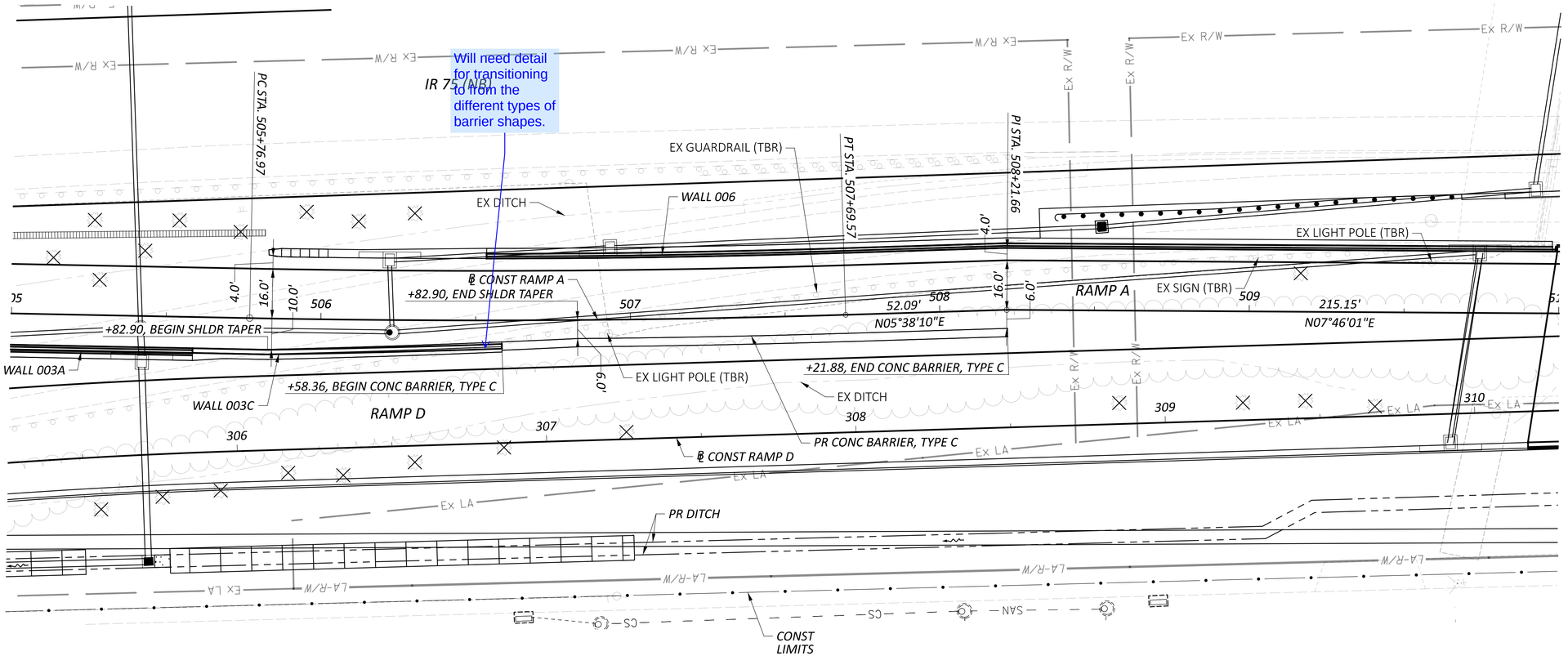
REVIEWER
MJR 06/21/24

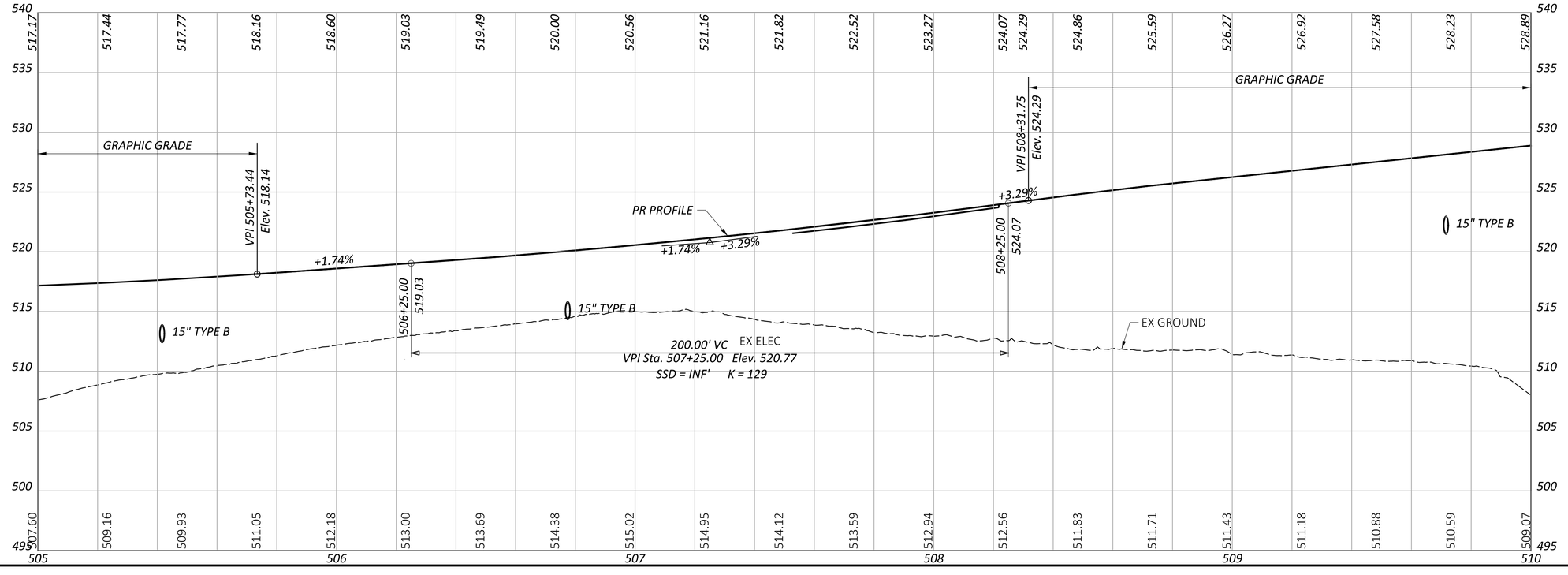
PROJECT ID
114161

SHEET P.33 | TOTAL 463

HAM-75-1.95

MODEL: HARRISON AVE - Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:12:36 PM USER: bmccutchen
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GP011.dgn





HORIZONTAL SCALE IN FEET
0 10 20 40

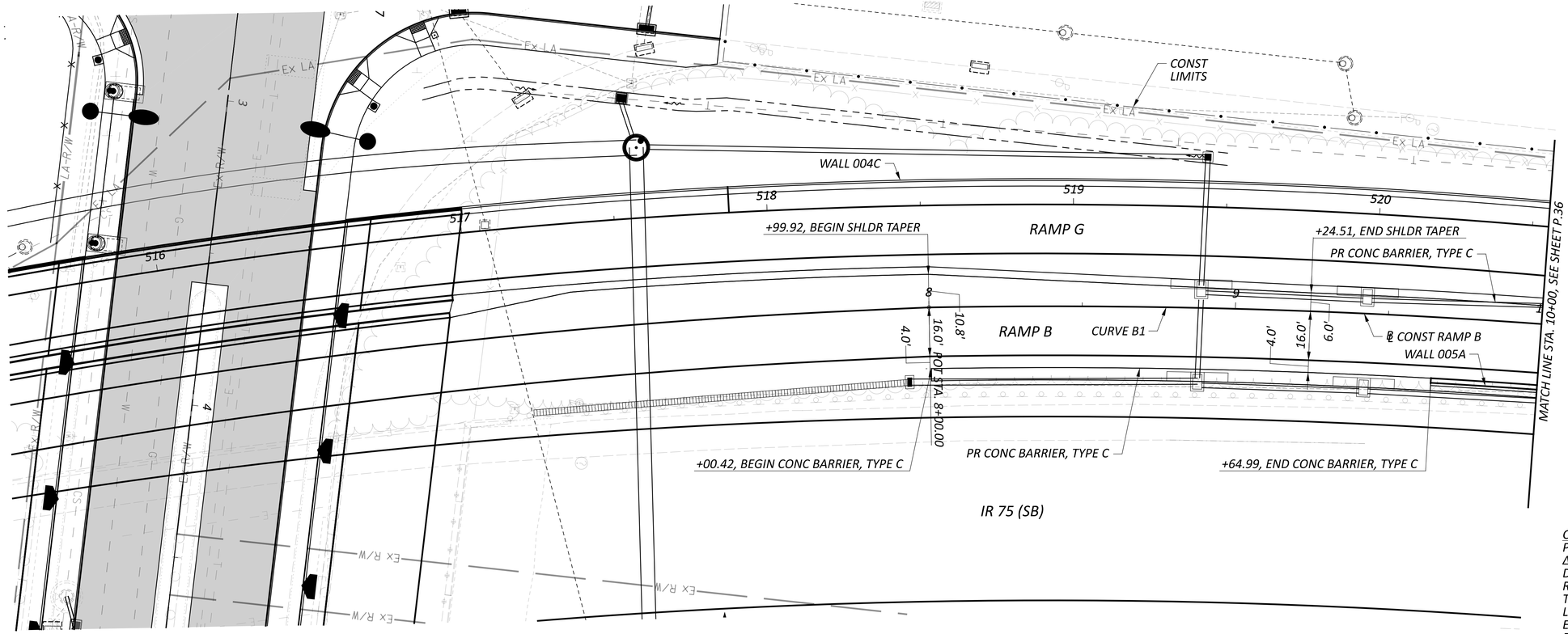
PLAN AND PROFILE - RAMP A
STA 505+00.00 TO STA 510+00.00

DESIGN AGENCY
EMH&T

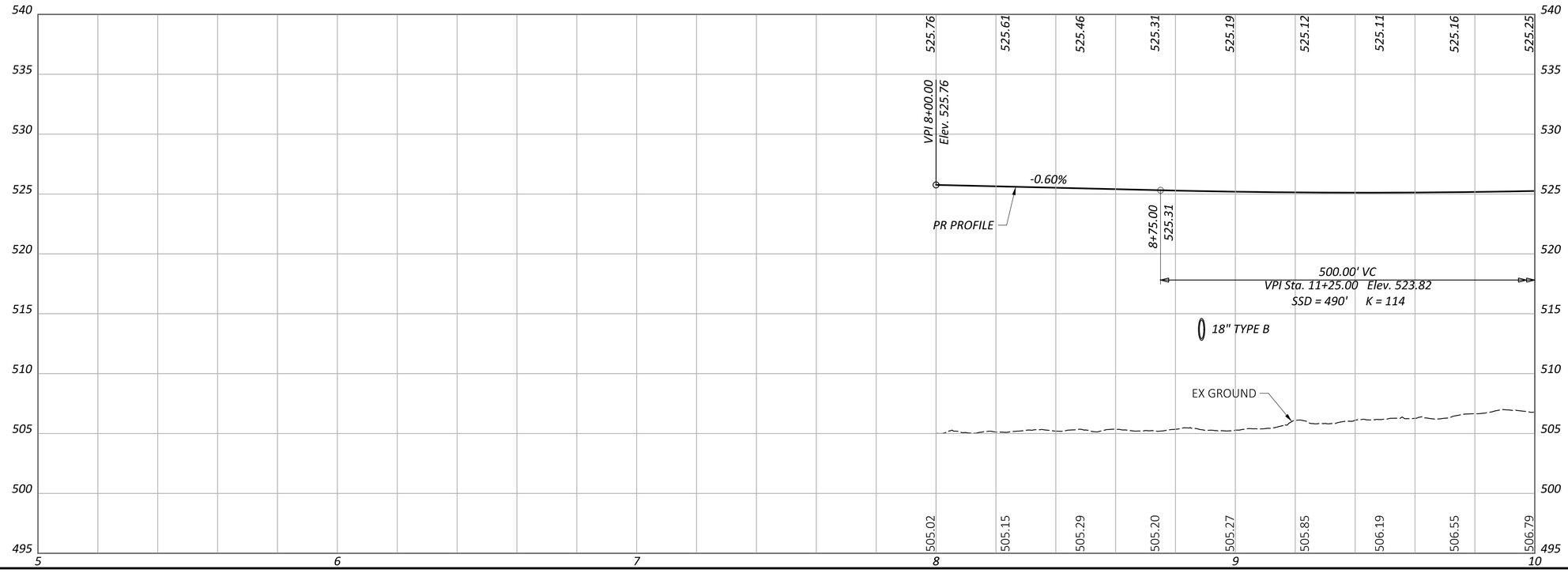
DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.34
TOTAL	463

HAM-75-1.95

MODEL: RAMP A - Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:49:46 PM USER: sbeal
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CURVE B1
P.I. = STA. 9+33.35
Δ = 06°53'09" RT
Dc = 02°35'06"
R = 2,216.45'
T = 133.35'
L = 266.37'
E = 4.01'
Emax = 0.042



HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP B
STA 8+00.00 TO STA 10+00.00

DESIGN AGENCY
EMHT

DESIGNER
SJB

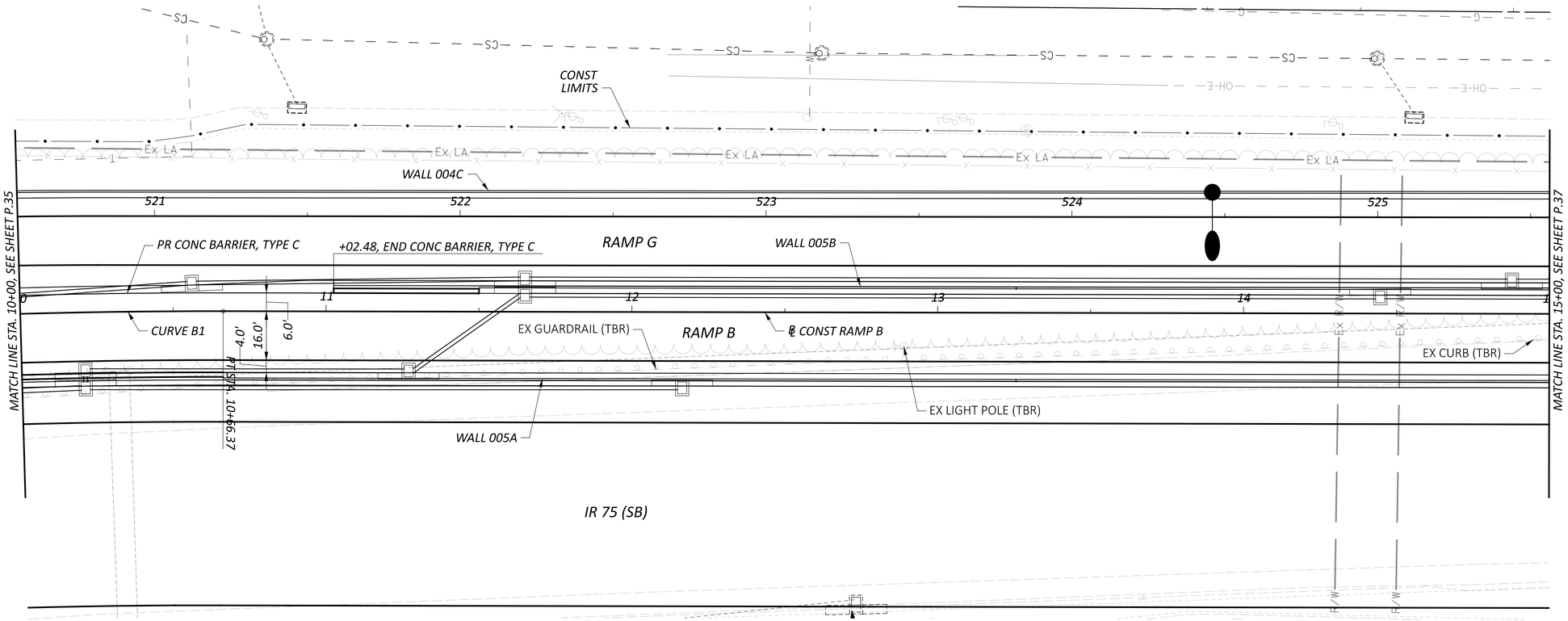
REVIEWER
MJR 06/21/24

PROJECT ID
114161

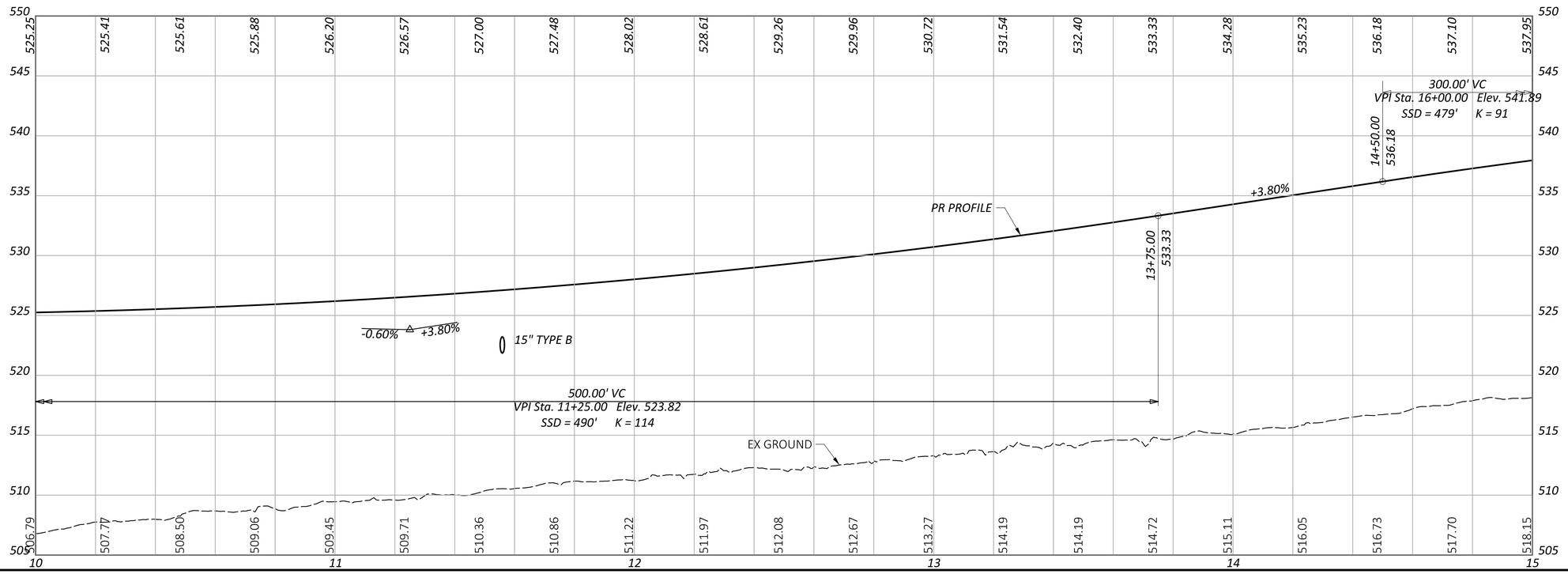
SHEET P.35 TOTAL 463

HAM-75-1.95

MODEL: RAMP B - Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:50:29 PM USER: sbeal
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CURVE B1
P.I. = STA. 9+33.35
Δ = 06°53'09" RT
Dc = 02°35'06"
R = 2,216.45'
T = 133.35'
L = 266.37'
E = 4.01'
Emax = 0.042



HAM-75-1.95

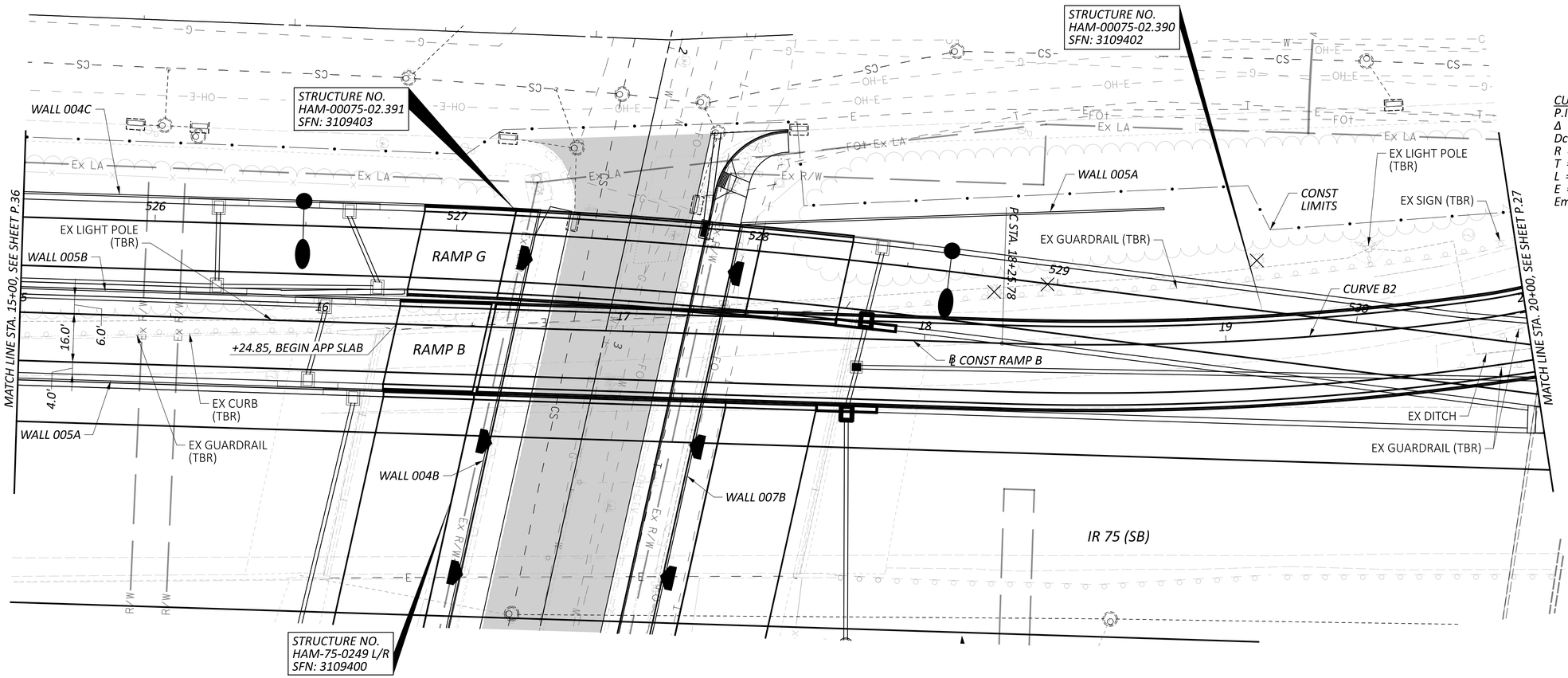
MODEL: RAMP B - Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:50:32 PM USER: sbeal
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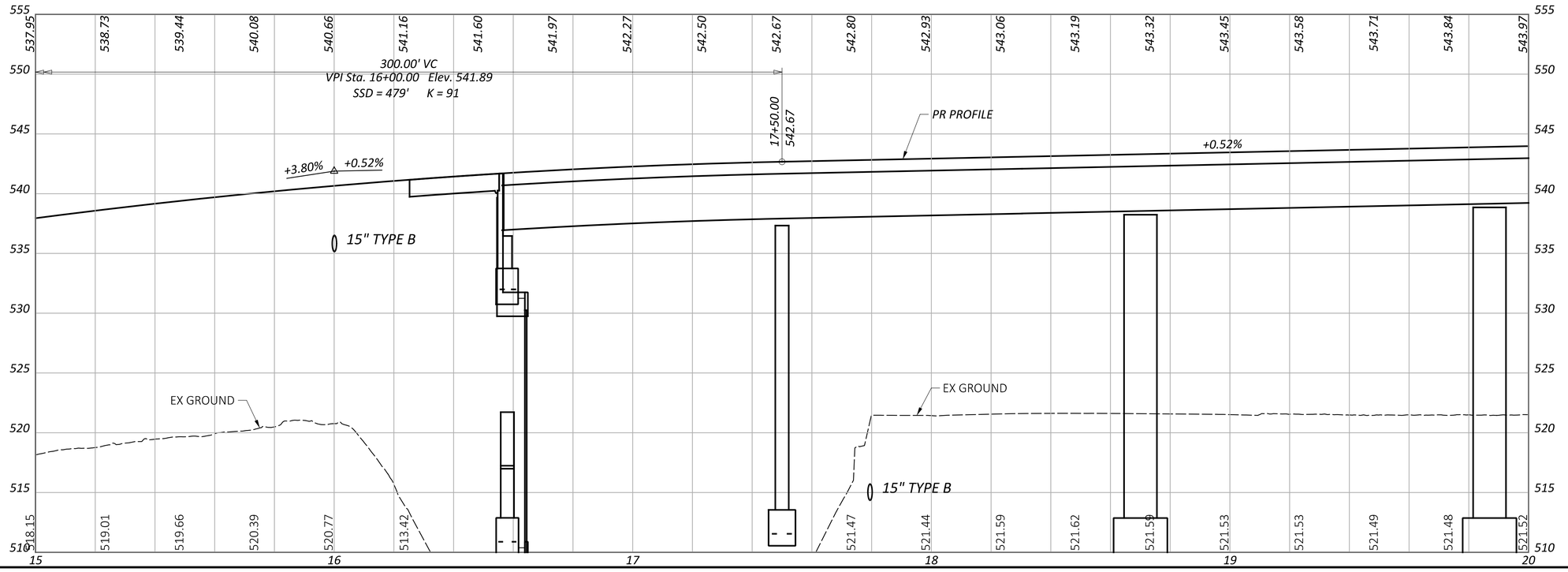
HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP B
STA 10+00.00 TO STA 15+00.00

DESIGN AGENCY
EMH&T

DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.36
TOTAL	463





PLAN AND PROFILE - RAMP B
STA 15+00.00 TO STA 20+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

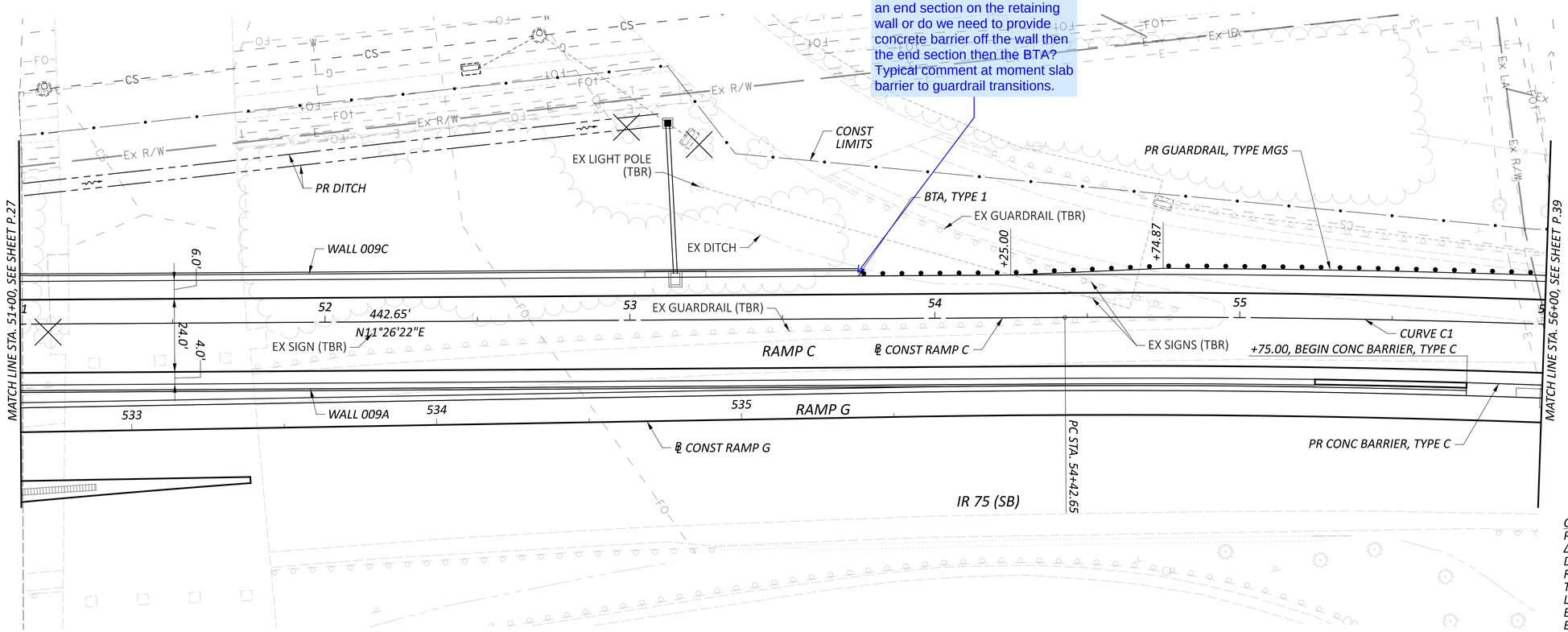
PROJECT ID
114161

SHEET P.37 | TOTAL 463

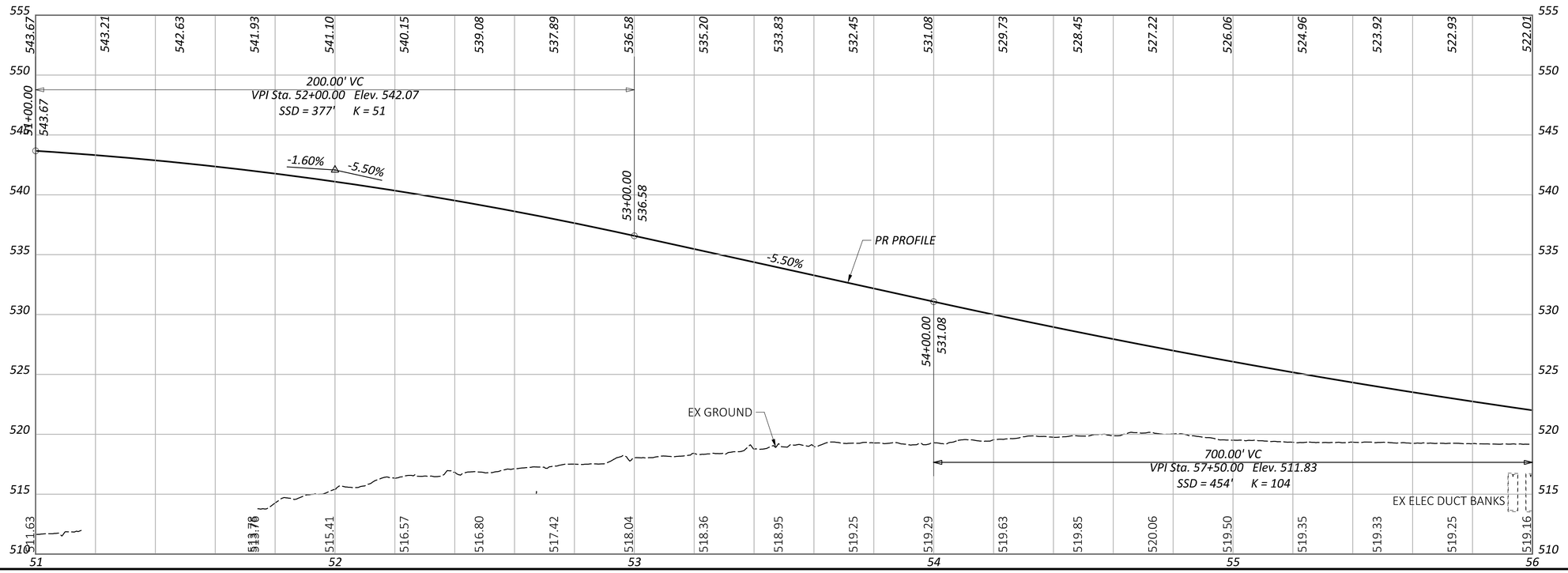
HAM-75-1.95

MODEL: RAMP B - Sheet 3 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:50:33 PM USER: sbeal
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Does the barrier wall transition to an end section on the retaining wall or do we need to provide concrete barrier off the wall then the end section then the BTA? Typical comment at moment slab barrier to guardrail transitions.



CURVE C1
P.I. = STA. 57+26.75
Δ = 08°30'27" RT
Dc = 01°30'00"
R = 3,819.72'
T = 284.10'
L = 567.16'
E = 10.55'
Emax = 0.028



HORIZONTAL SCALE IN FEET
0 10 20 40

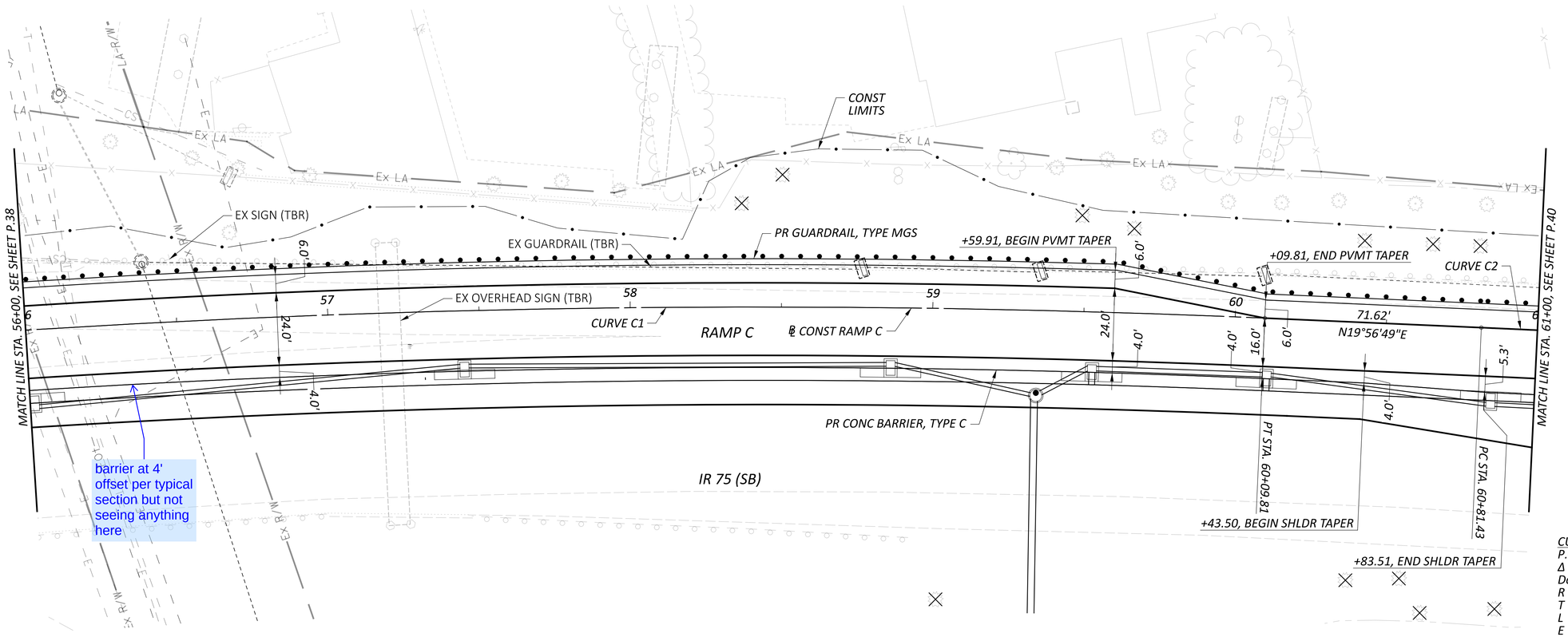
PLAN AND PROFILE - RAMP C
STA 51+00.00 TO STA 56+00.00

DESIGN AGENCY
EMH&T

DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.38
TOTAL	463

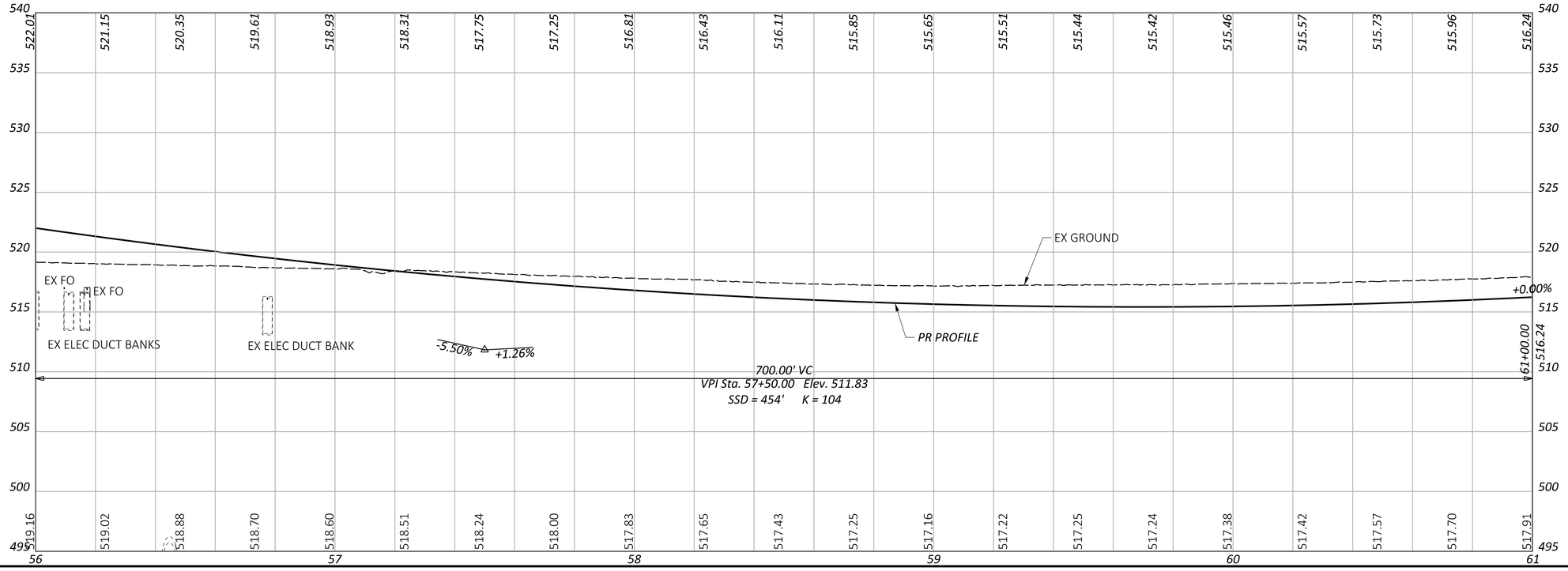
HAM-75-1.95

MODEL: RAMP C - Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:50:59 PM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GP005.dgn



CURVE C1
P.I. = STA. 57+26.75
Δ = 08°30'27" RT
Dc = 01°30'00"
R = 3,819.72'
T = 284.10'
L = 567.16'
E = 10.55'
Emax = 0.028

CURVE C2
P.I. = STA. 62+23.52
Δ = 02°50'28" RT
Dc = 01°00'00"
R = 5,729.58'
T = 142.09'
L = 284.12'
E = 1.76'
Emax = 0.020



HAM-75-1.95

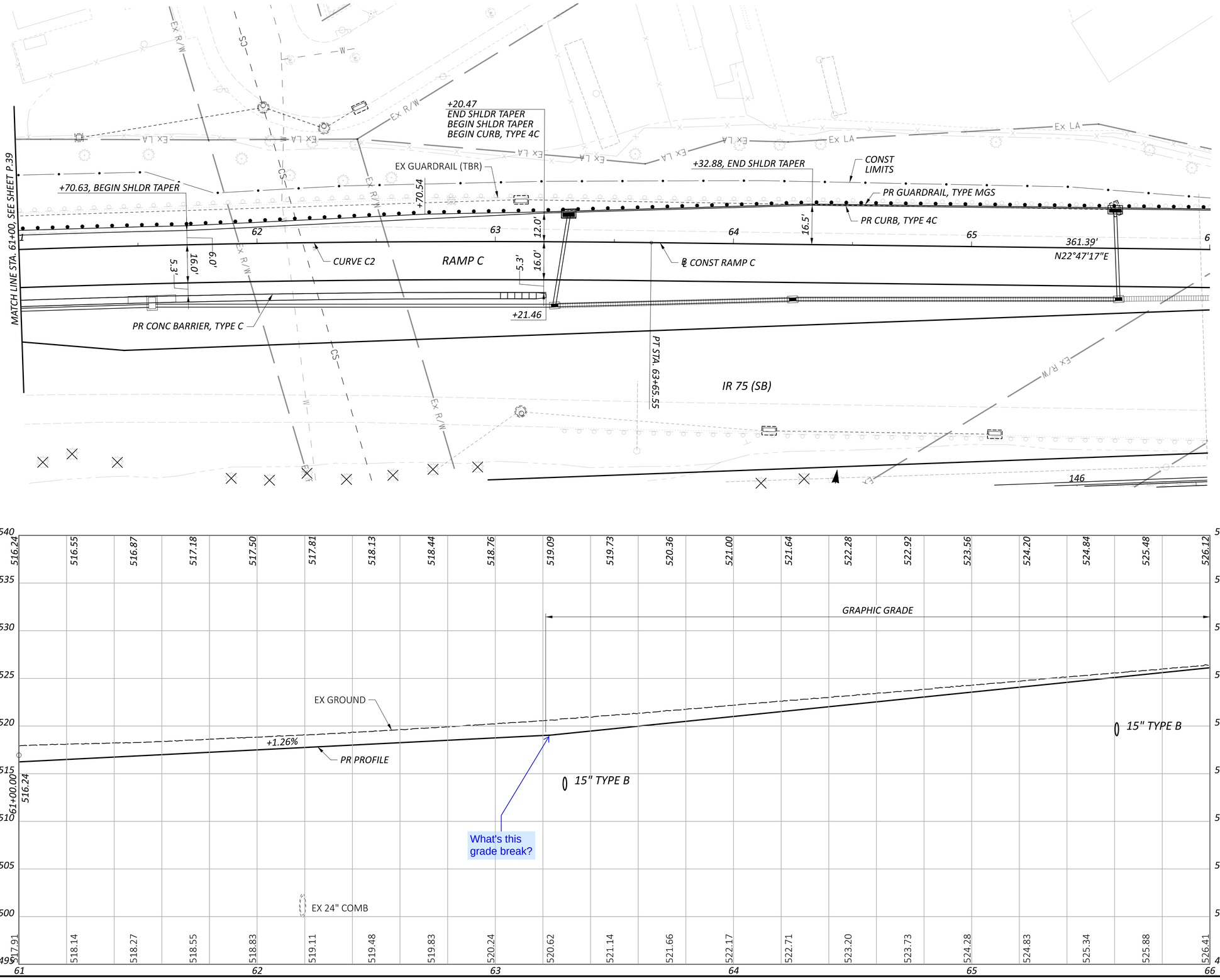
MODEL: RAMP C - Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:51:01 PM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GP005.dgn

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP C
STA 56+00.00 TO STA 61+00.00

DESIGN AGENCY
EMH&T

DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.39
TOTAL	463



CURVE C2
P.I. = STA. 62+23.52
Δ = 02°50'28" RT
Dc = 01°00'00"
R = 5,729.58'
T = 142.09'
L = 284.12'
E = 1.76'
Emax = 0.020

HORIZONTAL SCALE IN FEET
0 10 20 40

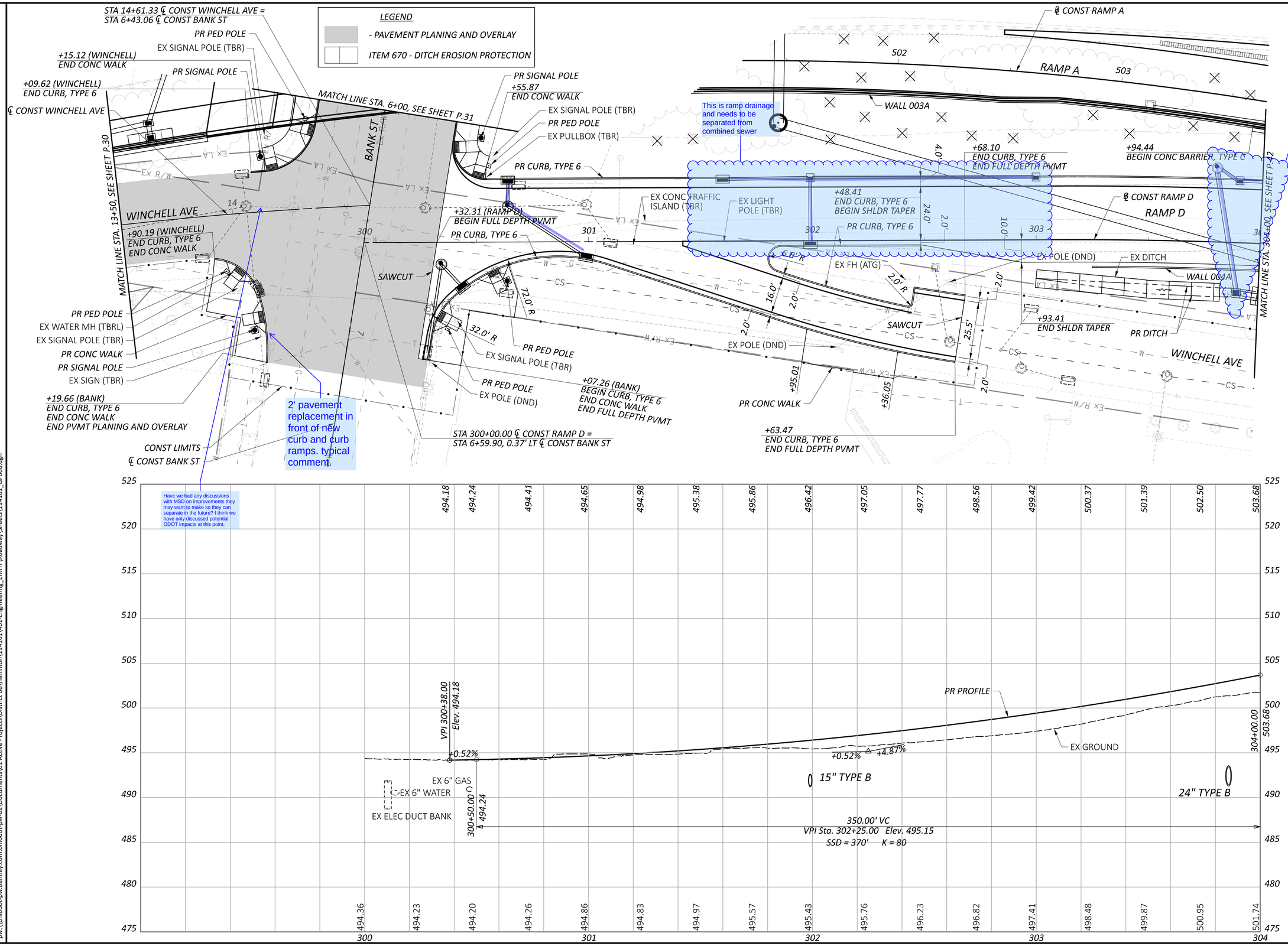
PLAN AND PROFILE - RAMP C
STA 61+00.00 TO STA 66+00.00

DESIGN AGENCY
E M H T

DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.40
TOTAL	463

HAM-75-1.95

MODEL: RAMP C - Sheet 3 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:51:03 PM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GP005.dgn



HAM-75-1.95

MODEL: RAMP D - Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:51:27 PM USER: sbeal
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HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP D
STA 300+00.00 TO STA 304+00.00

DESIGN AGENCY
EMH&T

DESIGNER
BLM

REVIEWER
MJR 06-21-24

PROJECT ID
114161

SHEET P.41 TOTAL 463

LEGEND

ITEM 670 - DITCH EROSION PROTECTION

+00.13
END CURB, TYPE 6
END SHLDR TAPER

IR 75 (NB)

+86.43
BEGIN CONC BARRIER, TYPE C

+49.92
END CONC BARRIER, TYPE C

RAMP A

RAMP D

PR CONC BARRIER, TYPE C

+75.49
END SHLDR TAPER

PR CURB, TYPE 6

WALL 003A

WALL 003C

WALL 004A

WALL 006

EX GUARDRAIL (TBR)

EX LIGHT POLE (TBR)

EX DITCH

℄ CONST RAMP D

PR DITCH

4.0'

24.0'

10.0'

Ex LA

LA-R/W

Ex R/W

CS

W

M

SAN

+86.70
END CONC BARRIER, TYPE C

CONST LIMITS

MATCH LINE STA. 304+00, SEE SHEET P.41

MATCH LINE STA. 309+00, SEE SHEET P.43

504 505 506 507 508

304 305 306 307 308 309

HORIZONTAL SCALE IN FEET
0 10 20 40

250.00' VC
VPI Sta. 308+00.00 Elev. 523.17
SSD = 596' K = 109

+4.87% +2.58%

306+75.00
517.07

PR PROFILE

+4.87%

EX GROUND

24" TYPE B

503.68 504.89 506.11 507.33 508.55 509.77 510.98 512.20 513.42 514.64 515.86 517.07 518.26 519.40 520.47 521.49 522.45 523.35 524.20 524.99 525.72

501.74 502.06 503.04 503.10 503.06 502.93 503.41 500.91 501.02 500.13 499.79 499.27 499.22 499.74 499.72 500.14 500.44 500.59 500.81 500.80 501.03

540 535 530 525 520 515 510 505 500 495 490

PLAN AND PROFILE - RAMP D
STA 304+00.00 TO STA 309+00.00

DESIGN AGENCY
EMH&T

DESIGNER
BLM

REVIEWER
MJR 06-21-24

PROJECT ID
114161

SHEET P.42 TOTAL 463

HAM-75-1.95

MODEL: RAMP D - Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:51:29 PM USER: sbeal
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LEGEND

- PAVEMENT PLANING AND OVERLAY
- ITEM 670 - DITCH EROSION PROTECTION

℄ CONST HARRISON AVE

STA 310+87.18 ℙ CONST RAMP D =
STA 5+67.11 ℄ CONST HARRISON AVE

+26.47
END PVMT TAPER

WALL 006

WALL 008

RAMP A

RAMP D

509 510 511 512 513

310 311 312 313

EX DITCH

EX GUARDRAIL (TBR)

+18.77, BEGIN APP SLAB

+62.20, END APP SLAB

+72.42

ℙ CONST RAMP D

24.0'

36.0'

10.0'

+09.35

+59.35

+09.35

WALL 004A

PR DITCH

BTA, TYPE 2

PR GUARDRAIL, TYPE MGS

EX DITCH

MATCH LINE STA. 309+00, SEE SHEET P.42

MATCH LINE STA. 314+00, SEE SHEET P.44

STRUCTURE NO.
HAM-00075-02.381
SFN: 3109401

CONST LIMITS

WINCHELL AVE

HARRISON AVE

PR DITCH

Ex R/W

LA-R/W

EX LA

545 540 535 530 525 520 515 510 505 500 495

525.72 526.39 527.04 527.68 528.33 528.97 529.62 530.26 530.91 531.55 532.20 532.84 533.49 534.13 534.78 535.42 536.07 536.71 537.36 538.00 538.65

501.03 501.71 502.18 502.98 502.27 502.51 501.70 500.86 500.74 504.01 512.58 520.38 519.17 517.14 513.11 508.63 505.76 503.78 503.59 503.17 503.39

309 310 311 312 313 314

250.00' VC
VPI Sta. 308+00.00 Elev. 523.17
SSD = 596' K = 109

309+25.00
526.39

PR PROFILE

+2.58%

15" TYPE B

15" TYPE B

27" TYPE B

EX GROUND

16'-6" REQ MIN VC

24'-1 5/8" ACTUAL MIN VC

EX 10" WATER

EX 6" GAS

EX 24" WATER

EX FO

EX FO DUCT BANK

EX FO

Have we had any discussions with MSD on improvements they may want to make so they can separate in the future? I think we have only discussed potential ODOT impacts at this point.

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP D
STA 309+00.00 TO STA 314+00.00

DESIGN AGENCY
EMH&T

DESIGNER
BLM

REVIEWER
MJR 06-21-24

PROJECT ID
114161

SHEET P.43 TOTAL 463

HAM-75-1.95

MODEL: RAMP D - Sheet 3 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:51:34 PM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\V01-Engineering_EMHT\Roadway\Sheets\114161_GP006.dgn

LEGEND

ITEM 670 - DITCH EROSION PROTECTION

℄ CONST WESTERN HILLS VIADUCT

STRUCTURE NO.
WHV OVER IR 75
SFN: 1111111

WALL 008

10.0'

36.0'

241

EX LIGHT POLE (TBR)

EX GUARDRAIL (TBR)

EX SIGN (TBR)

PR TRAFFIC PULLBOX

+12.56
BEGIN PVMT TAPER

+93.86
END PVMT TAPER

WALL 010A

RAMP D

24.0'

4.0'

EX GUARDRAIL (TBR)

℄ CONST RAMP D

MATCH LINE STA. 314+00, SEE SHEET P.43

MATCH LINE STA. 319+00, SEE SHEET P.45

314 315 316 317 318

EX HIGHMAST LIGHT (TBR)

EX DITCH

PR SIGNAL CONTROLLER

PR SIGNAL POLES

PR GUARDRAIL,
TYPE MGS

STA 315+11.22 ℄ CONST RAMP D =
STA 10+00.00 ℄ CONST CONNECTOR

STA 315+23.27 ℄ CONST RAMP D =
STA 241+45.90 ℄ CONST WESTERN HILLS VIADUCT

CONNECTOR

℄ CONST CONNECTOR

Ex R/W

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP D
STA 314+00.00 TO STA 319+00.00

300.00' VC
VPI Sta. 315+63.00 Elev. 542.85
SSD = 296'. K = 41
+2.58% -4.82%

314+13.00
538.98

317+13.00
535.61

+2.58%

-4.82%

PR PROFILE

15" TYPE B

EX GROUND

538.65 539.27 539.77 540.11 540.29 540.32 540.20 539.92 539.49 538.90 538.16 537.27 536.22 535.03 533.83 532.62 531.42 530.21 529.00 527.80 526.59

503.39 504.21 504.22 504.82 505.49 506.22 506.94 508.77 516.78 516.48 516.02 515.50 514.88 511.08 510.69 510.53 510.58 510.26 510.06 510.03

550 545 540 535 530 525 520 515 510 505 500

314 315 316 317 318 319

DESIGN AGENCY
EMH&T

DESIGNER
BLM

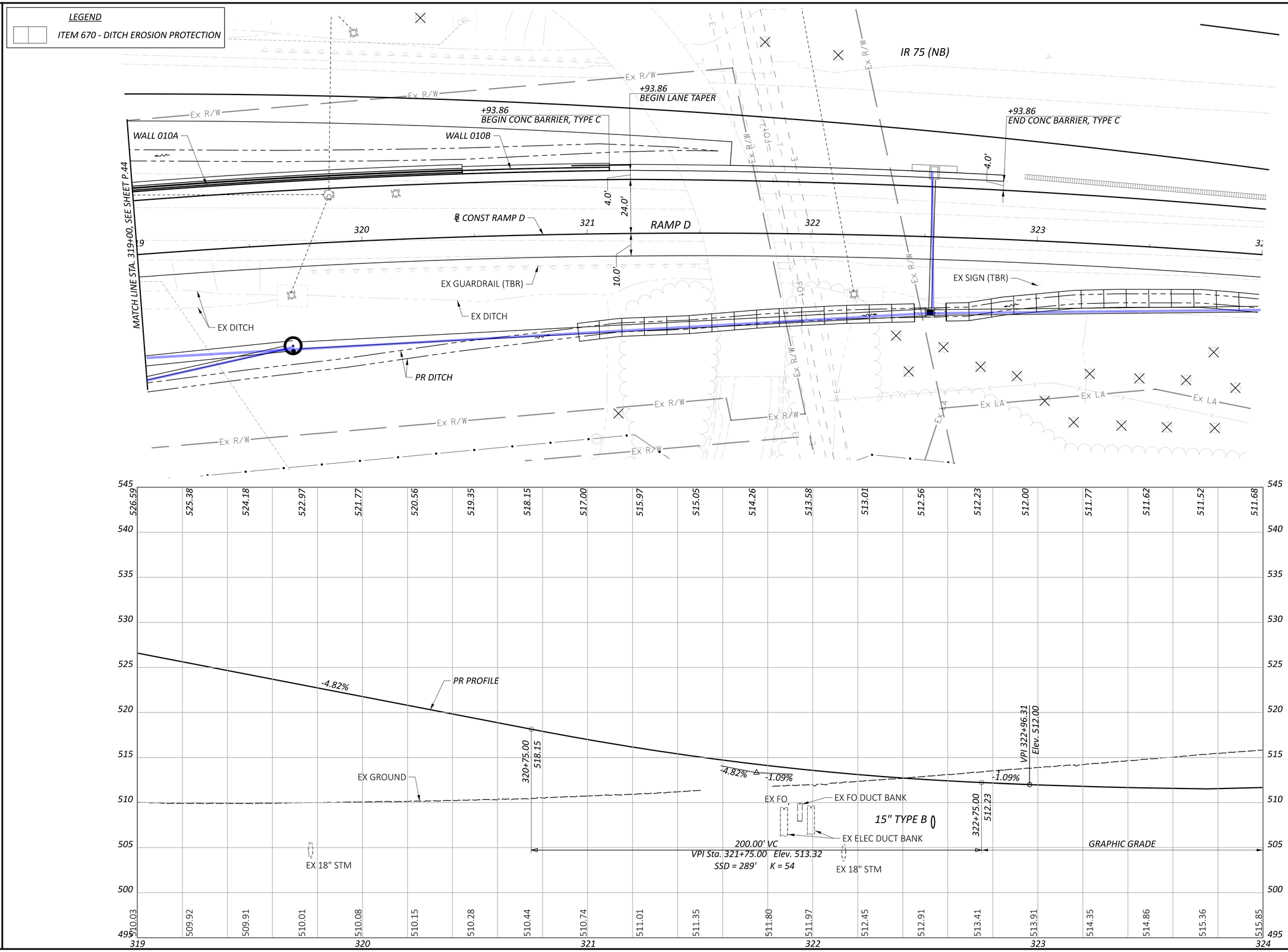
REVIEWER
MJR 06-21-24

PROJECT ID
114161

SHEET P.44 TOTAL 463

HAM-75-1.95

MODEL: RAMP D - Sheet 4 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:51:36 PM USER: sbeal
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HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP D
STA 319+00.00 TO STA 324+00.00

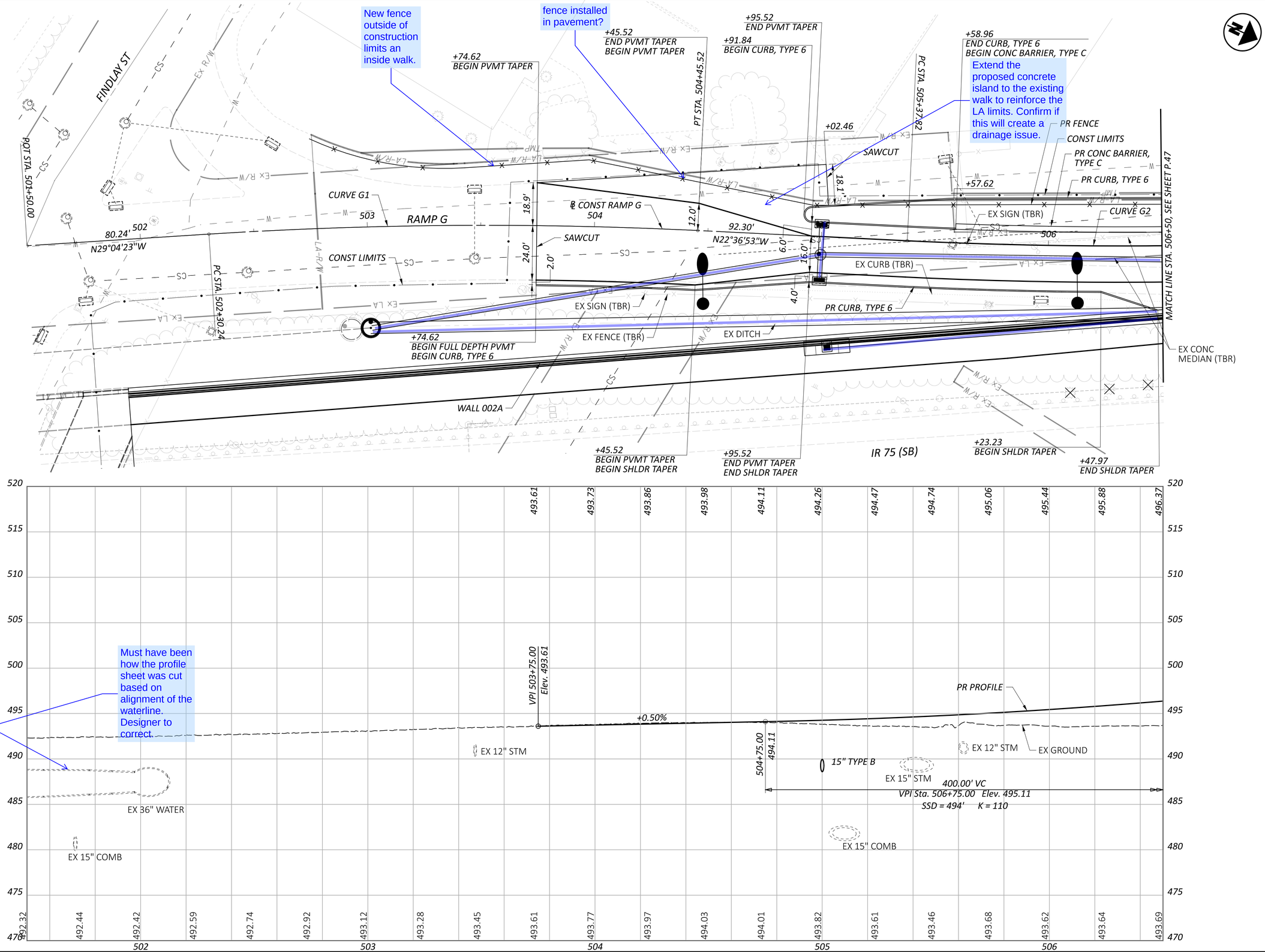
DESIGN AGENCY	EMH&T
DESIGNER	BLM
REVIEWER	MJR 06-21-24
PROJECT ID	114161
SHEET	P.45
TOTAL	463

HAM-75-1.95

MODEL: RAMP D - Sheet 5 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:51:38 PM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\V01-Engineering_EMHT\Roadway\Sheets\114161_GP006.dgn

CURVE G1
P.I. = STA. 503+38.00
Δ = 06°27'30" RT
Dc = 03°00'00"
R = 1,909.86'
T = 107.75'
L = 215.28'
E = 3.04'
Emax = NC

CURVE G2
P.I. = STA. 506+18.38
Δ = 04°49'52" LT
Dc = 03°00'00"
R = 1,909.86'
T = 80.57'
L = 161.04'
E = 1.70'
Emax = 0.028



HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP G
STA 501+50.00 TO STA 506+50.00

DESIGN AGENCY
E M H & T

DESIGNER	BLM
REVIEWER	MJR 06-21-24
PROJECT ID	114161
SHEET	P.46
TOTAL	463

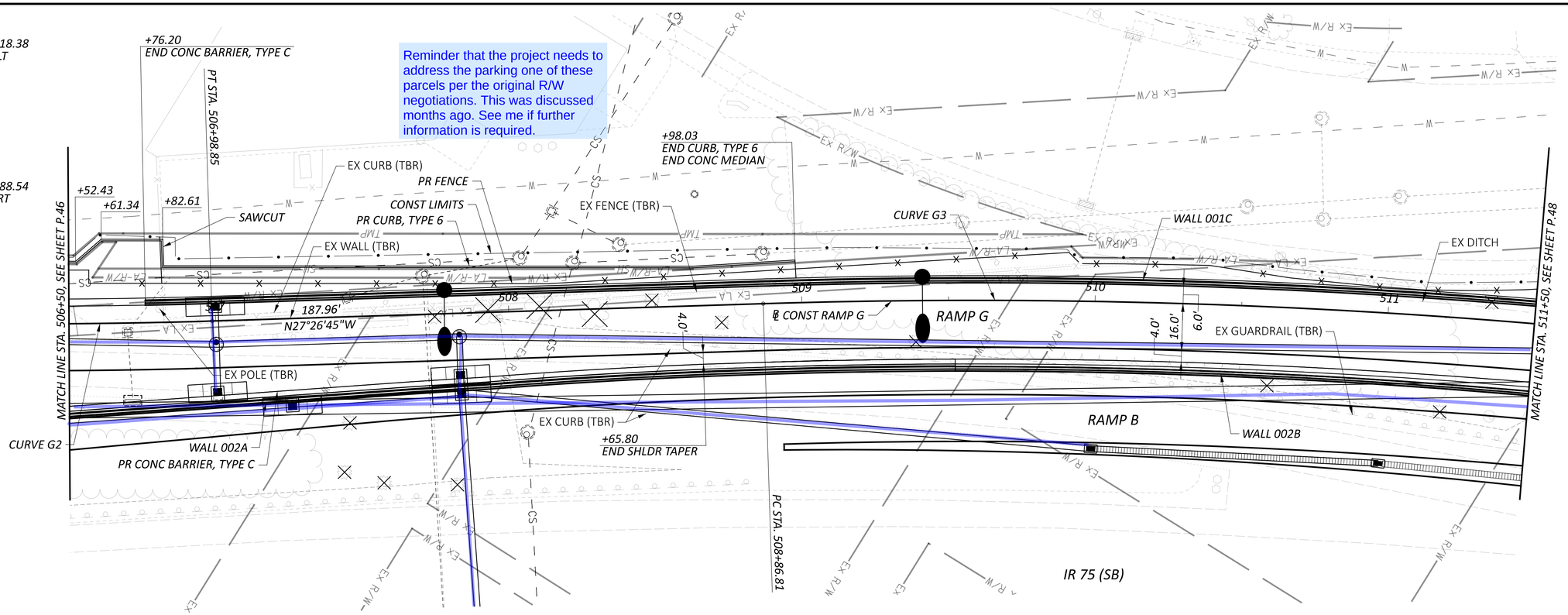
HAM-75-1.95

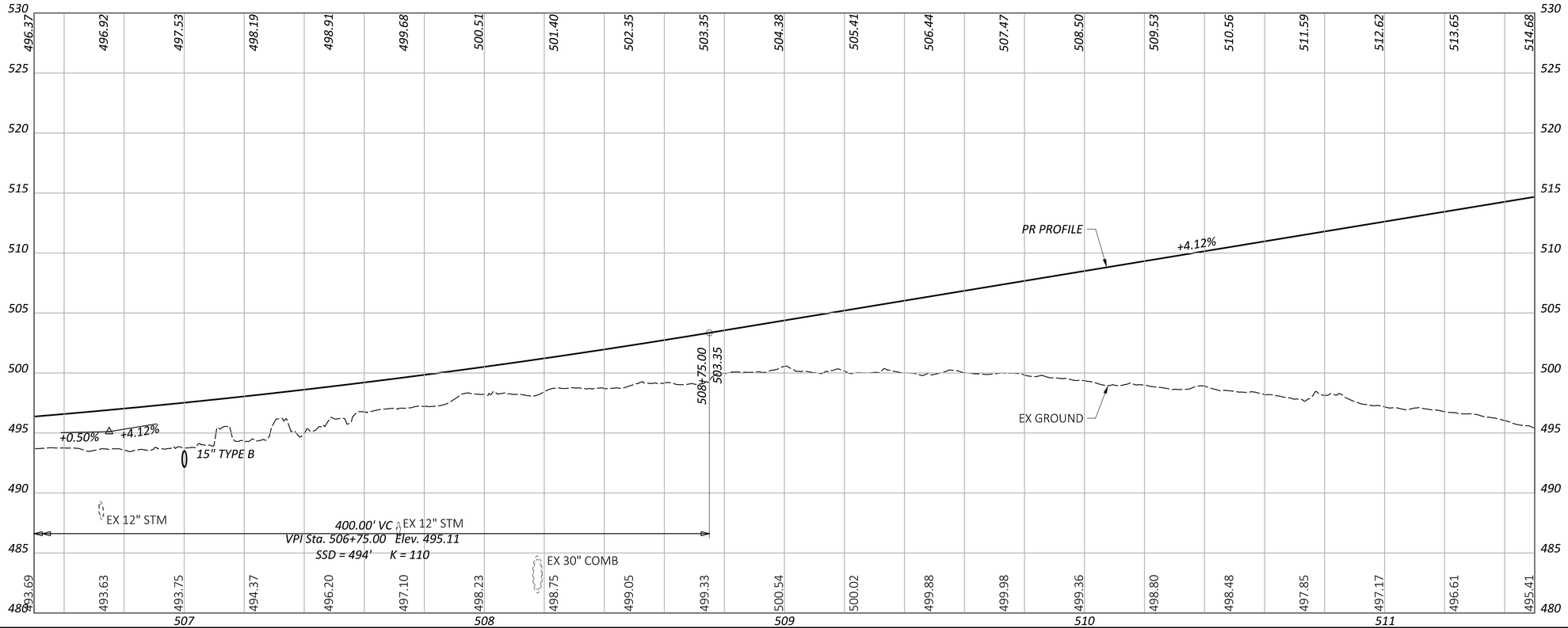
MODEL: RAMP G - Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:52:03 PM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GP007.dgn

CURVE G2
P.I. = STA. 506+18.38
Δ = 04°49'52" LT
Dc = 03°00'00"
R = 1,909.86'
T = 80.57'
L = 161.04'
E = 1.70'
Emax = 0.028

CURVE G3
P.I. = STA. 511+88.54
Δ = 15°00'00" RT
Dc = 02°30'00"
R = 2,291.83'
T = 301.73'
L = 600'
E = 19.78'
Emax = 0.040

Reminder that the project needs to address the parking one of these parcels per the original R/W negotiations. This was discussed months ago. See me if further information is required.





HAM-75-1.95

MODEL: RAMP G - Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:52:06 PM USER: sbeal
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HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP G
STA 506+50.00 TO STA 511+50.00

DESIGN AGENCY
EMH&T

DESIGNER	BLM
REVIEWER	MJR 06-21-24
PROJECT ID	114161
SHEET	P.47
TOTAL	463

LEGEND

- PAVEMENT PLANING AND OVERLAY

DALTON AVE

PR FENCE

CONST LIMITS

EX FENCE (TBR)

PR DITCH

MATCH LINE STA. 511+50, SEE SHEET P.47

EX DITCH

WALL 001C

+36.55, BEGIN APP SLAB

STA 516+16.87 ℄ CONST RAMP G =
STA 3+53.41 ℄ CONST BANK ST

STRUCTURE NO.
HAM-00075-02.179
SFN: 3109366

BANK ST

MATCH LINE STA. 516+50, SEE SHEET P.49

CURVE G3
P.I. = STA. 511+88.54
Δ = 15°00'00" RT
Dc = 02°30'00"
R = 2,291.83'
T = 301.73'
L = 600'
E = 19.78'
Emax = 0.040

CURVE G4
P.I. = STA. 517+86.50
Δ = 17°50'09" RT
Dc = 03°00'00"
R = 1,909.86'
T = 299.69'
L = 594.53'
E = 23.37'
Emax = 0.045

RAMP G

RAMP B

℄ CONST RAMP G

EX WALL (TBR)

PR CONC BARRIER, TYPE C

EX FENCE (TBR)

WALL 002B

WALL 001B

WALL 003B

STRUCTURE NO.
HAM-75-0219 L/R
SFN: 3109365

+67.54
BEGIN SHLDR TAPER
BEGIN CONC BARRIER, TYPE C

+07.92
END SHLDR TAPER

+89.80
BEGIN SHLDR TAPER

+30.35
END SHLDR TAPER
END CONC BARRIER, TYPE C

IR 75 (SB)

700.00' VC
VPI Sta. 515+50.00 Elev. 531.16
SSD = 541' K = 135

+4.12%

-1.05%

PR PROFILE

512+00.00
516.74

15" TYPE B

16'-6" REQ MIN VC

27'-5 1/4" ACTUAL MIN VC

EX GROUND

EX 10" WATER

EX 6" GAS

EX ELEC

HORIZONTAL SCALE IN FEET
0 10 20 40

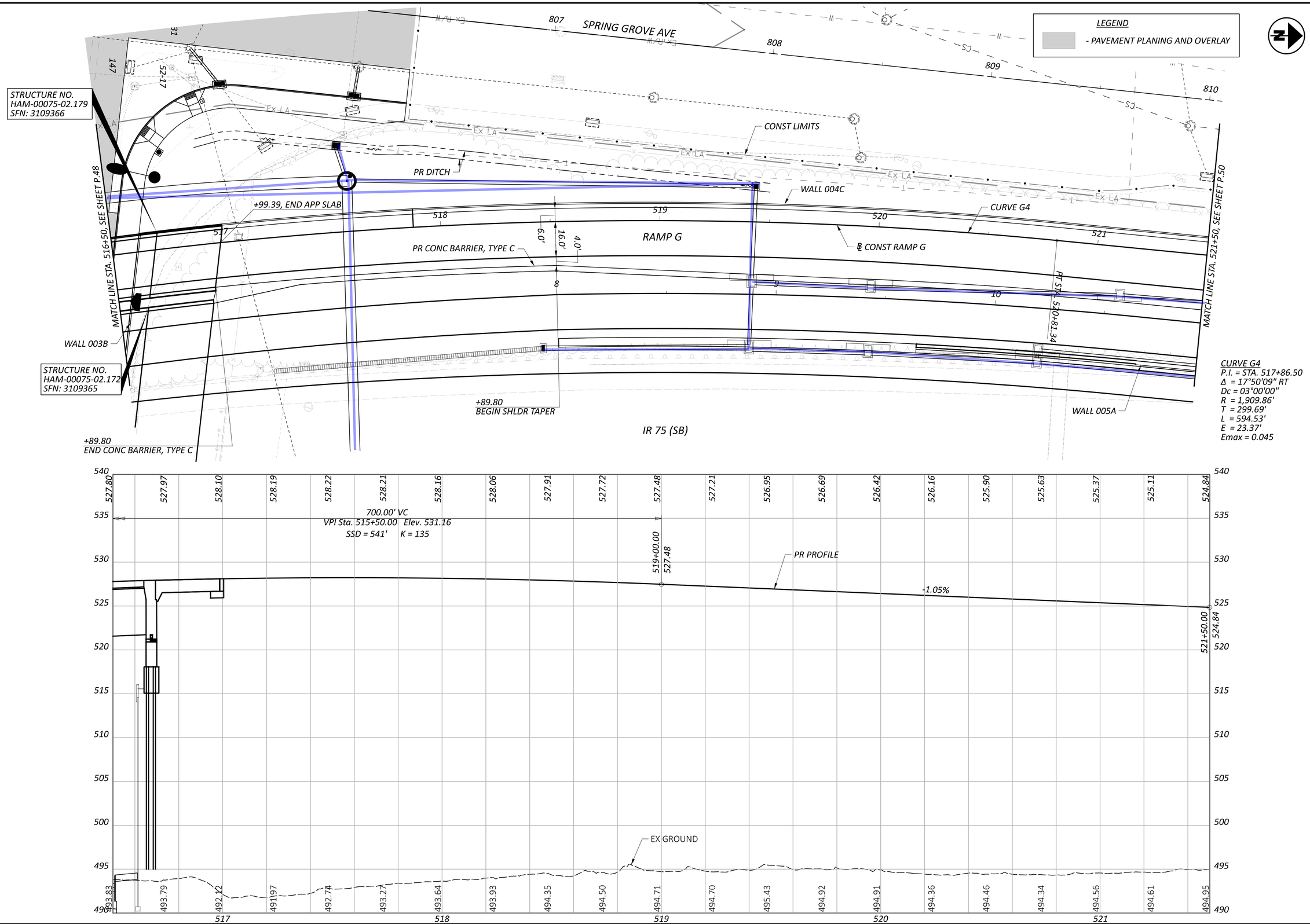
PLAN AND PROFILE - RAMP G
STA 511+50.00 TO STA 516+50.00

DESIGN AGENCY
EMH&T

DESIGNER BLM
REVIEWER MJR 06-21-24
PROJECT ID 114161
SHEET P.48 TOTAL 463

HAM-75-1.95

MODEL: RAMP G - Sheet 3 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:52:10 PM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GP007.dgn



HORIZONTAL SCALE IN FEET
0 10 20 40

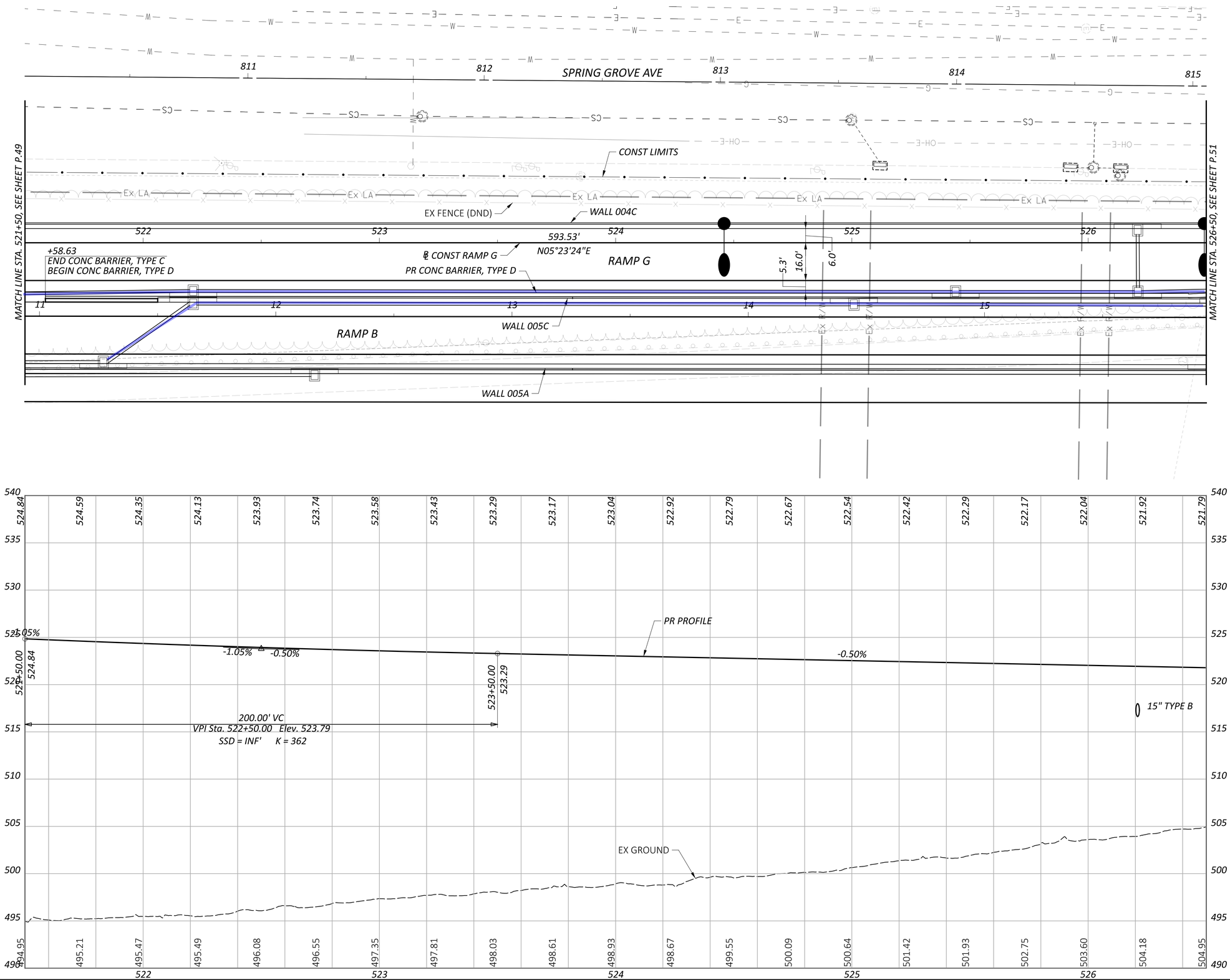
PLAN AND PROFILE - RAMP G
STA 516+50.00 TO STA 521+50.00

DESIGN AGENCY
E M H&T

DESIGNER	BLM
REVIEWER	MJR 06-21-24
PROJECT ID	114161
SHEET	P.49
TOTAL	463

HAM-75-1.95

MODEL: RAMP G - Sheet 4 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:52:13 PM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GP007.dgn



HAM-75-1.95

MODEL: RAMP G - Sheet 5 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:52:15 PM USER: sbeal
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HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP G
STA 521+50.00 TO STA 526+50.00

DESIGN AGENCY
EMH&T

DESIGNER	BLM
REVIEWER	MJR 06-21-24
PROJECT ID	114161
SHEET	P.50
TOTAL	463

LEGEND

- PAVEMENT PLANING AND OVERLAY

STRUCTURE NO.
HAM-00075-02.391
SFN: 3109403

STRUCTURE NO.
HAM-00075-02.386
SFN: 3109400

STRUCTURE NO.
HAM-00075-02.390
IR 75 (SB) ON RAMP B OVER
HARRISON AVE AND RAMP G
SFN: 3109402

SPRING GROVE AVE

STA 527+56.17 ℄ CONST RAMP G =
STA 2+65.50 ℄ CONST HARRISON AVE

+88.14, BEGIN APP SLAB

MATCH LINE STA. 526+50, SEE SHEET P.50

CURVE G5
P.I. = STA. 527+73.51
Δ = 05°25'15" RT
Dc = 02°45'00"
R = 2,083.48'
T = 98.64'
L = 197.12'
E = 2.33'
Emax = 0.042

+31.24
BEGIN CONC BARRIER, TYPE D

CONST LIMITS

℄ CONST RAMP G

WALL 007C

+30.56, END APP SLAB

WALL 004C

CURVE G5

RAMP G

RAMP B

PR STA. 526+74.87

PR STA. 528+71.83

WALL 005B

WALL 005C

+58.63
END CONC BARRIER, TYPE D

WALL 004B

WALL 007B

HARRISON AVE

+28.27
BEGIN CONC BARRIER, TYPE D

IR 75 (SB)

+33.60
BEGIN SHLDR TAPER

+83.60
END SHLDR TAPER

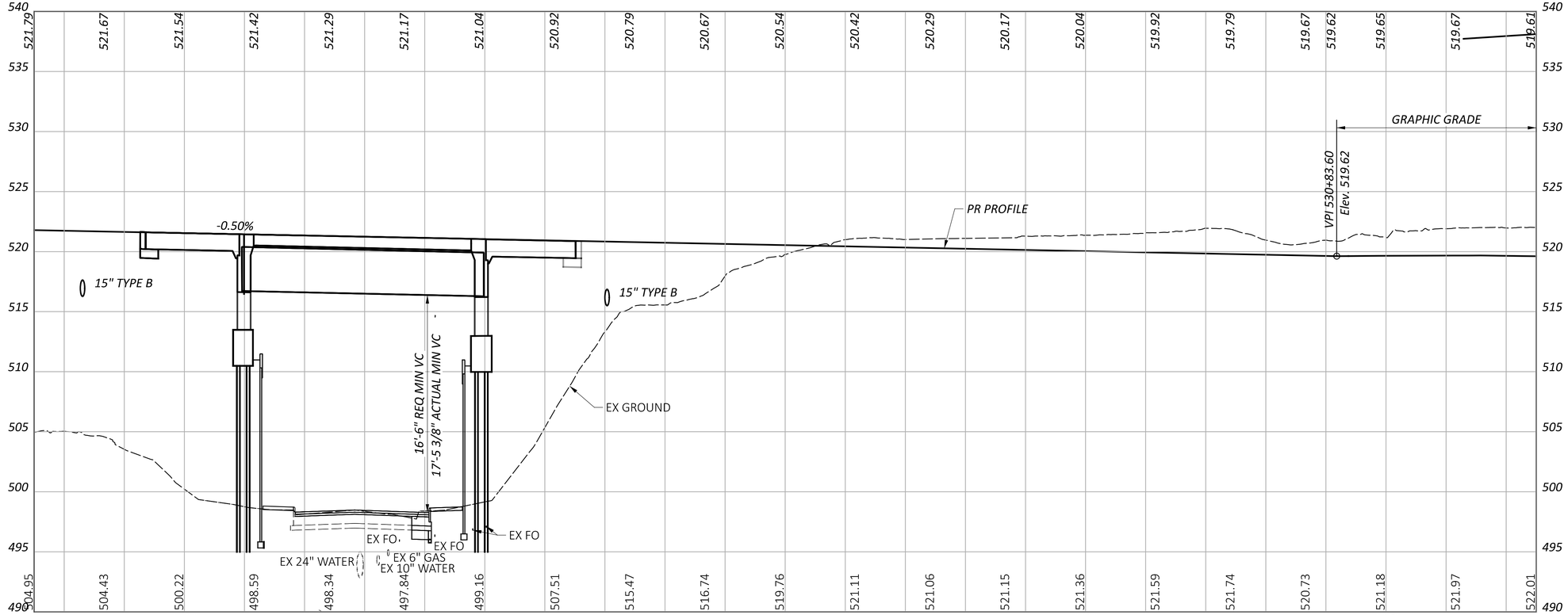
682.68'
N10°48'39"E

6.0'
20
8.0'
16.0'
4.0'

+83.97

PR CONC BARRIER, TYPE D

HORIZONTAL
SCALE IN FEET
0 10 20 40



PLAN AND PROFILE - RAMP G
STA 526+50.00 TO STA 531+50.00

DESIGN AGENCY
EMH&T

DESIGNER
BLM

REVIEWER
MJR 06-21-24

PROJECT ID
114161

SHEET P.51 TOTAL 463

HAM-75-1.95

MODEL: RAMP G - Sheet 6 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:52:17 PM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GP007.dgn

LEGEND

- PAVEMENT PLANING AND OVERLAY
- ITEM 670 - DITCH EROSION PROTECTION

CURVE CON1
P.I. = STA. 14+18.83
Δ = 90°43'28" RT
Dc = 22°44'11"
R = 252.00'
Θs Ls = 150.00'
Θs = 17°03'08"
LT = 100.47'
ST = 50.43'
x = 148.68'
y = 14.79'
k = 74.78'
p = 3.71'
Lc = 399.03'
T = 255.21'
E = 106.66'
Emax = 0.053

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN - CONNECTOR
STA 10+50.00 TO STA 16+83.65

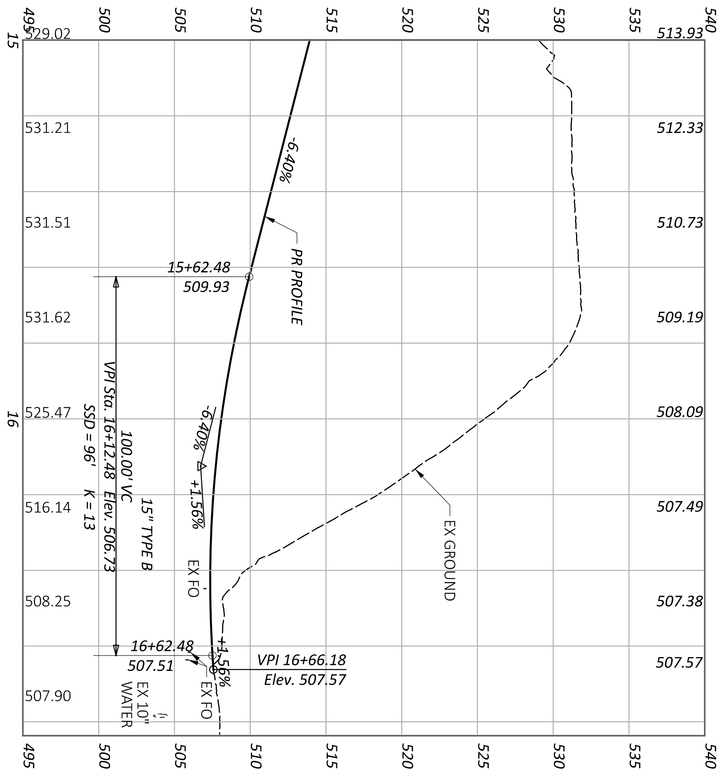
CONST LIMITS
EX GUARDRAIL (TBR)
EX DITCH
EX SIGN (TBR)
℄ CONST WESTERN HILLS VIADUCT
EX LIGHT POLE (TBR)
PR DITCH
CURVE CON1
CONNECTOR
EX LIGHT POLE (TBR)
℄ CONST CONNECTOR
PR LIGHT POLE (TYP)
4.0'
16.0'
6.0'
243
244
11
12
13
14
15
16
EX R/W
EX LA
CS
PR DITCH
EX DITCH
EX GUARDRAIL (TBR)
+00.93, BEGIN CURB, TYPE 6
EX SIGN (TBR)
PR CURB, TYPE 6
PR 10' CONC WALK
EX WALL (TBR)
EX FENCE (TBR)
EX LIGHT POLE (TBR)
EX DITCH
label end anchor type
label barrier
MATCH LINE STA. 10+50, SEE SHEET P.27
MATCH LINE STA. 7+00, SEE SHEET P.33
EX GUARDRAIL (TBR)
EX SIGN (TBR)
EX SIGNS (TBR)
Is this D224?
+06.73, BEGIN CURB, TYPE 6
PR CURB, TYPE 6
EX CB (TBR)
EX POLE (TBRL)
+34.26 (HARRISON) END PVMT PLANING AND OVERLAY END CURB, TYPE 6 END CONC WALK
HARRISON AVE
℄ CONST HARRISON AVE
SAWCUT

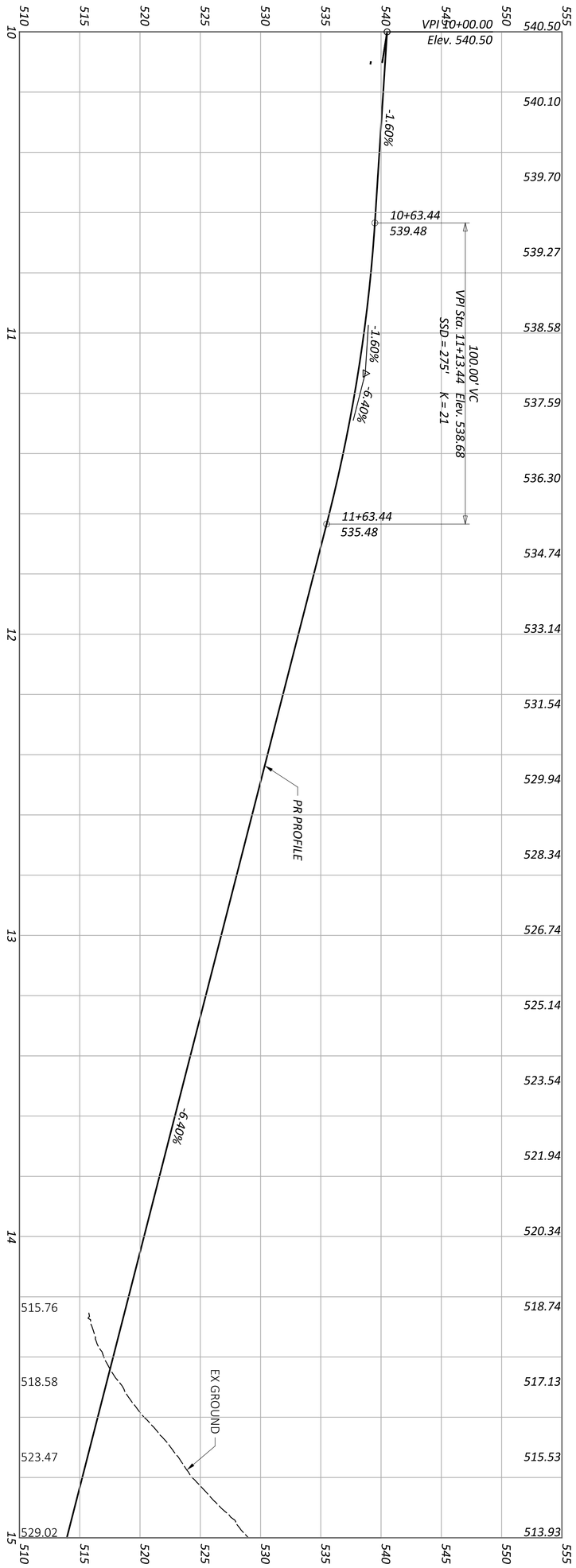
DESIGN AGENCY
E|M|H|T
DESIGNER SJB
REVIEWER MJR 06/21/24
PROJECT ID 114161
SHEET P.52 | TOTAL 463

HAM-75-1.95

MODEL: CONNECTOR PLAN - Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:52:32 PM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GP008.dgn

MODEL: CONNECTOR PROFILE - Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:52:36 PM USER: sbeal
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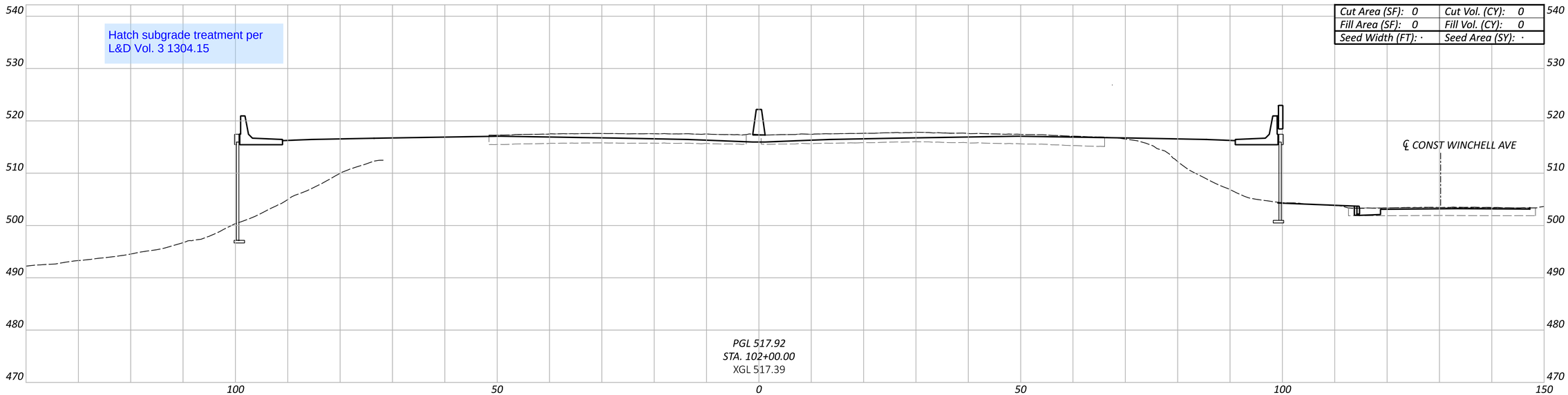
DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
SJB	MJR 06/21/24	114161	P.53	463

DESIGN AGENCY: EMH&T

PROFILE - CONNECTOR
STA 10+00.00 TO STA 16+83.65

Hatch subgrade treatment per
L&D Vol. 3 1304.15

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



CROSS SECTIONS - IR 75
STA 102+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

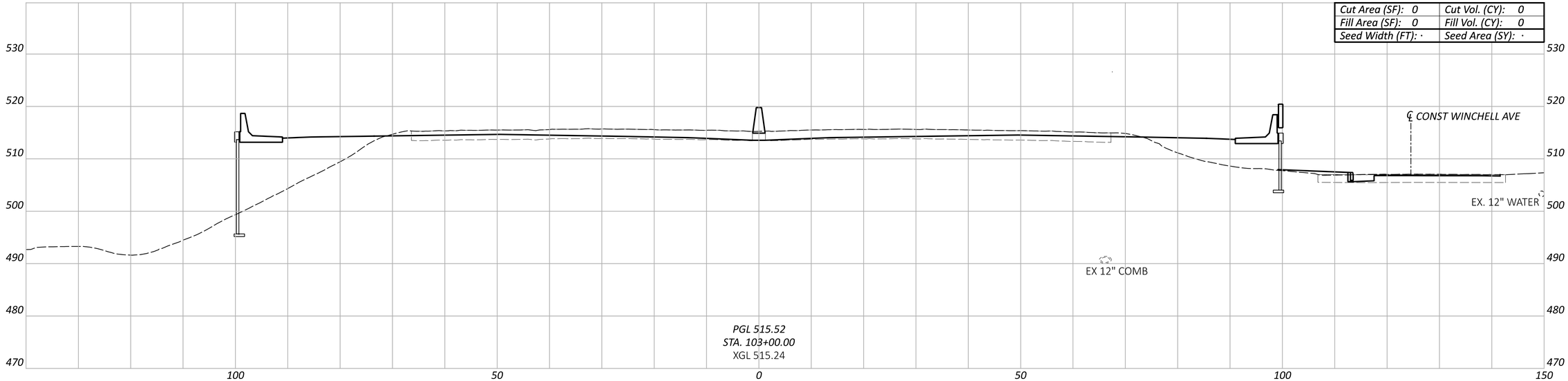
REVIEWER
MJR 06/21/24

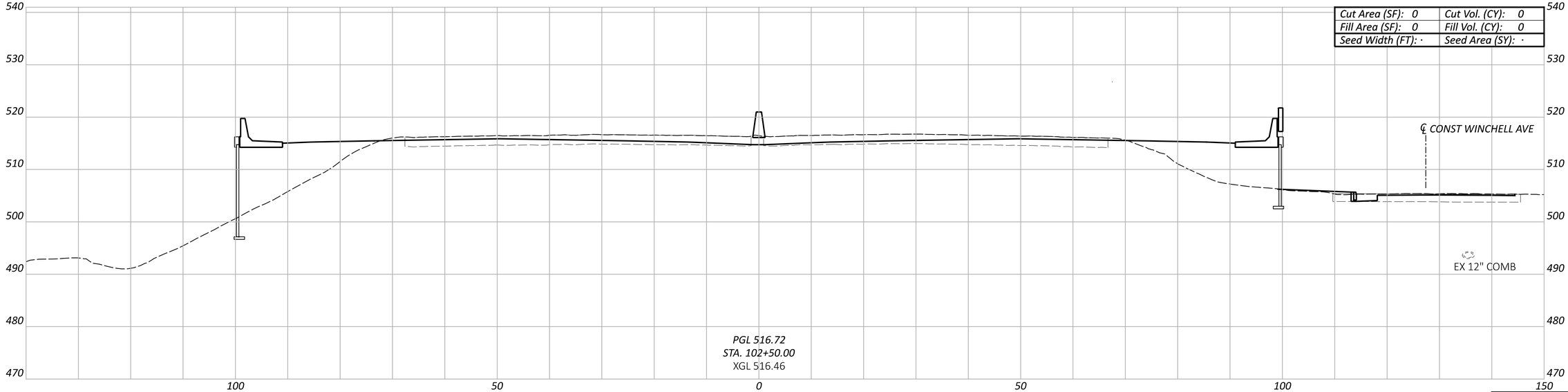
PROJECT ID
114161

SHEET P.54 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 102+50.00 TO STA 103+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

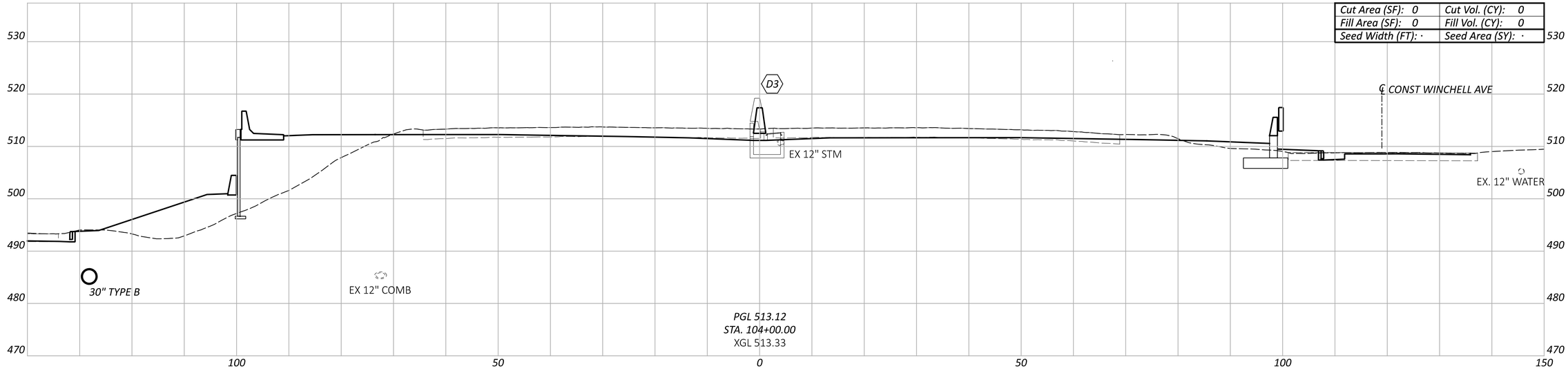
PROJECT ID
114161

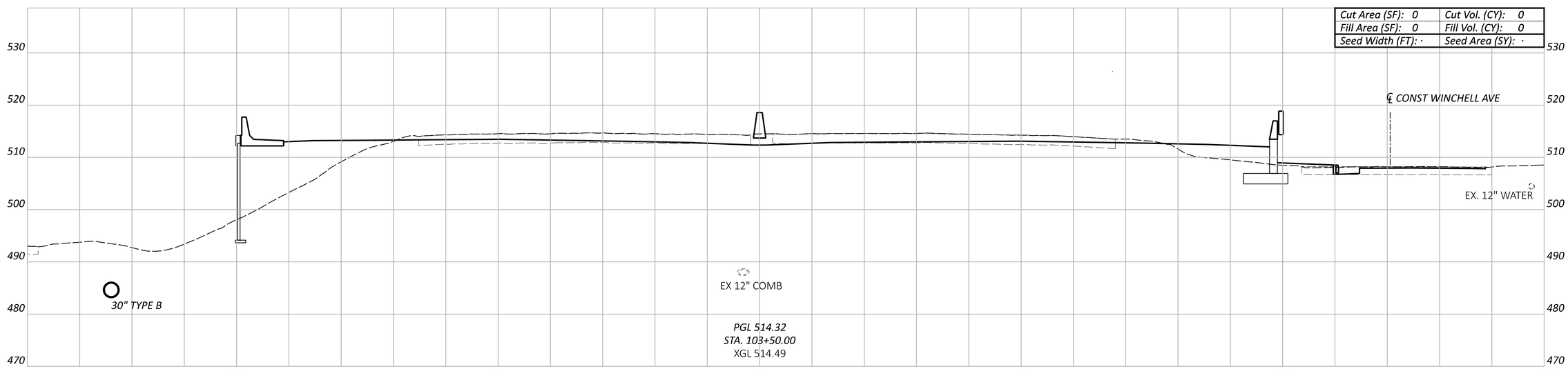
Sheet Totals		
Seeding	Cut	Fill
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SHEET	TOTAL
P.55	463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 103+50.00 TO STA 104+00.00

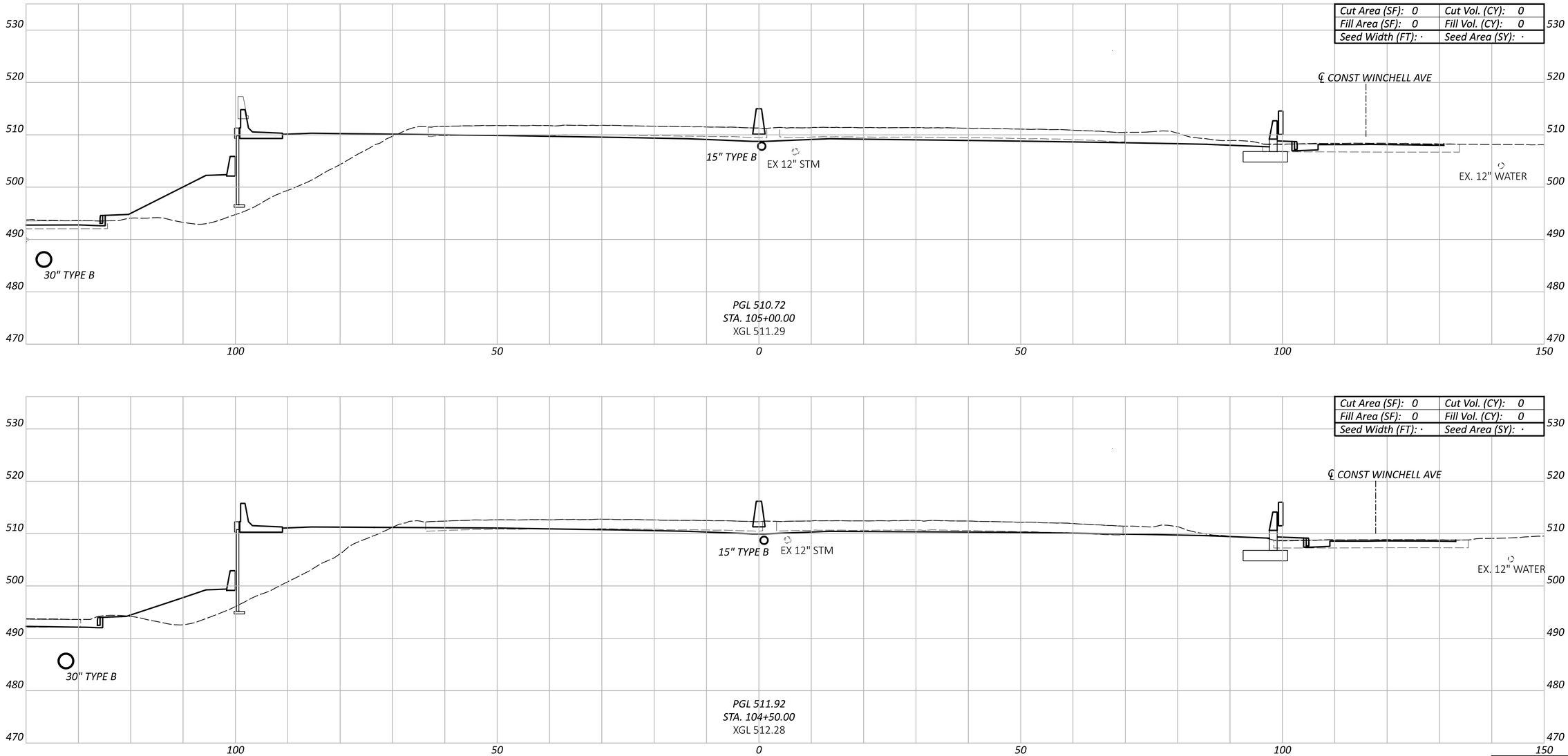
DESIGN AGENCY
EMH&T

DESIGNER	
SJB	
REVIEWER	
MJR	06/21/24
PROJECT ID	
114161	
SHEET	TOTAL
P.56	463

Sheet Totals		
Seeding	Cut	Fill
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HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 104+50.00 TO STA 105+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

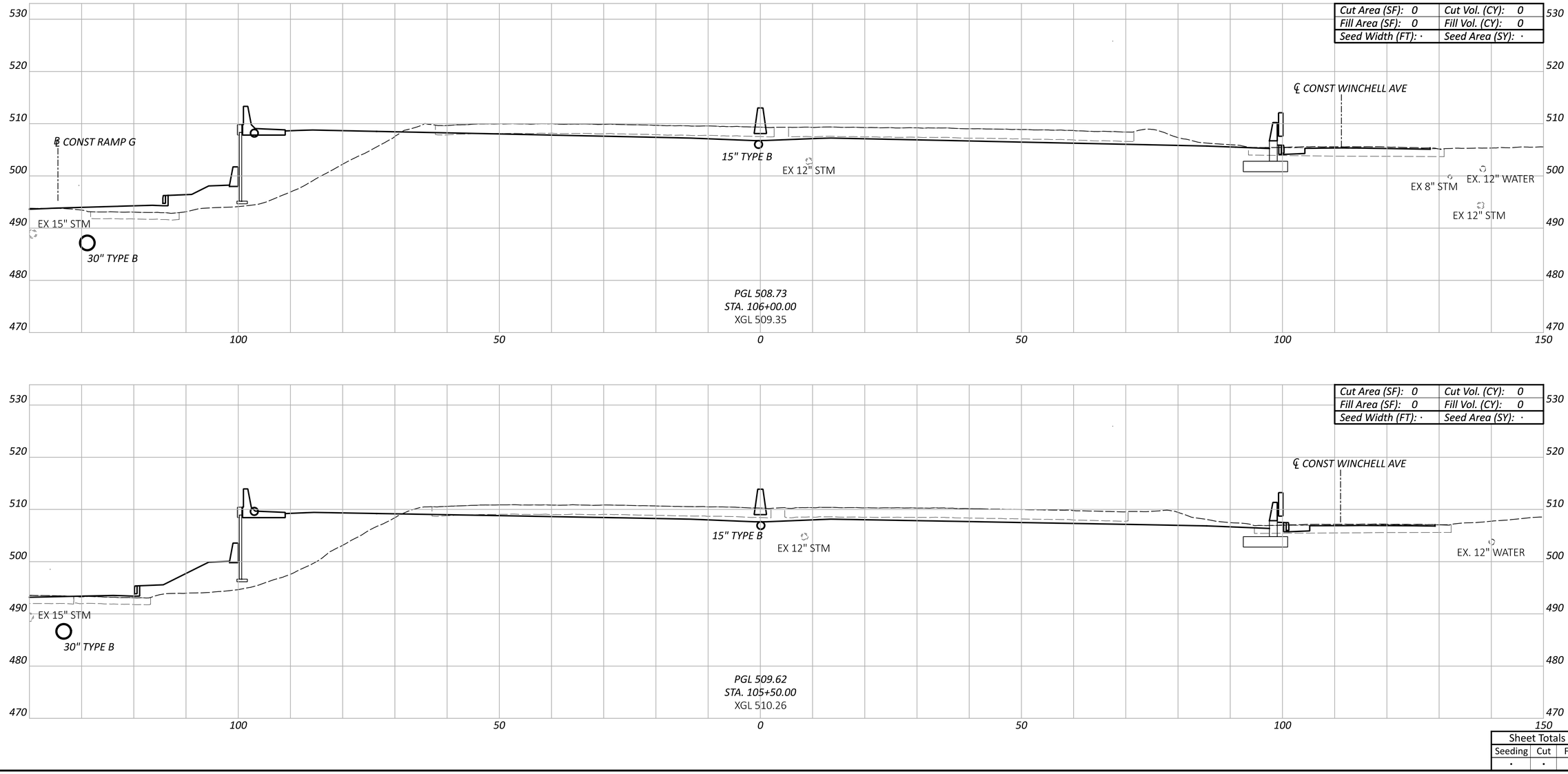
REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.57 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 105+50.00 TO STA 106+00.00

HAM-75-1.95

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DESIGN AGENCY
EMH&T

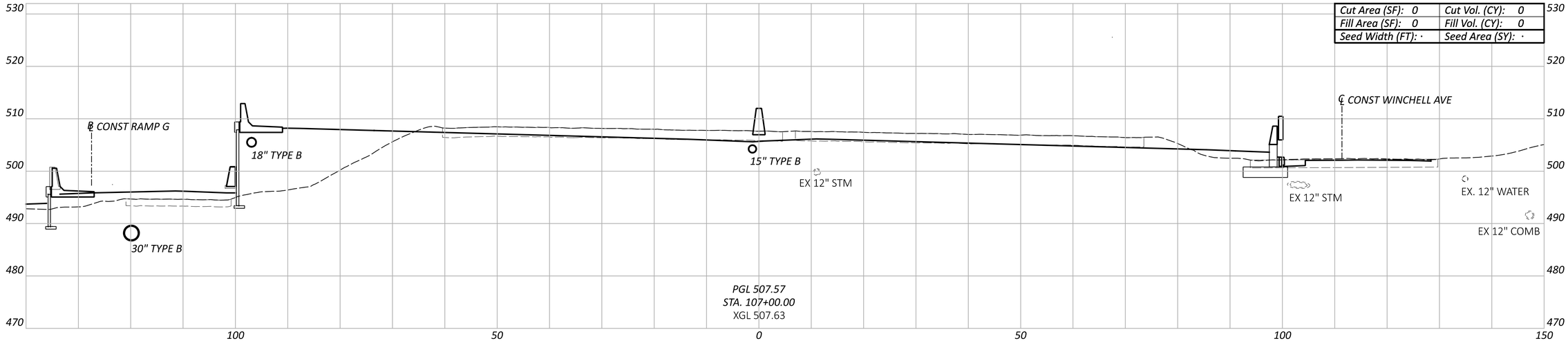
DESIGNER
SJB

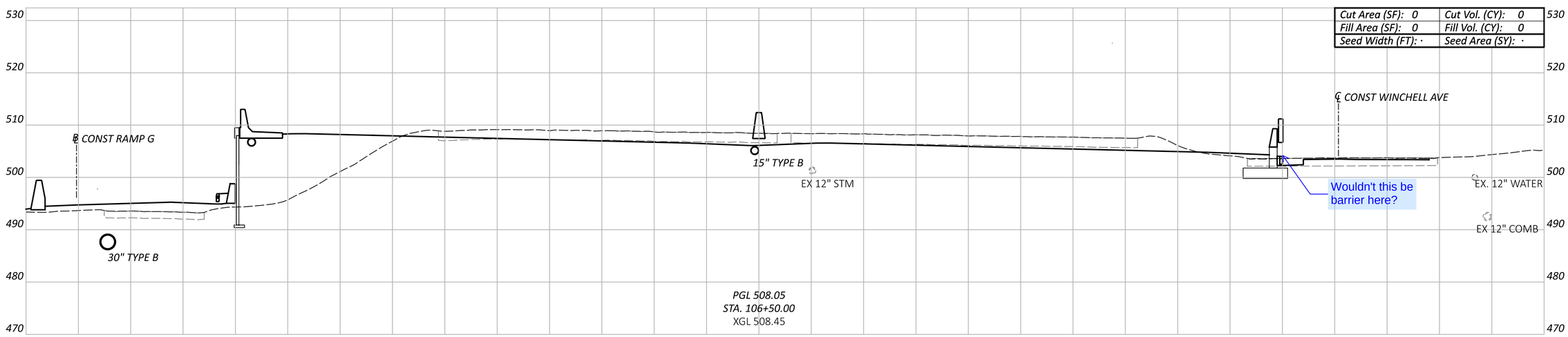
REVIEWER
MJR 06/21/24

PROJECT ID
114161

Sheet Totals		
Seeding	Cut	Fill
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SHEET P.58 TOTAL 463





CROSS SECTIONS - IR 75
STA 106+50.00 TO STA 107+00.00

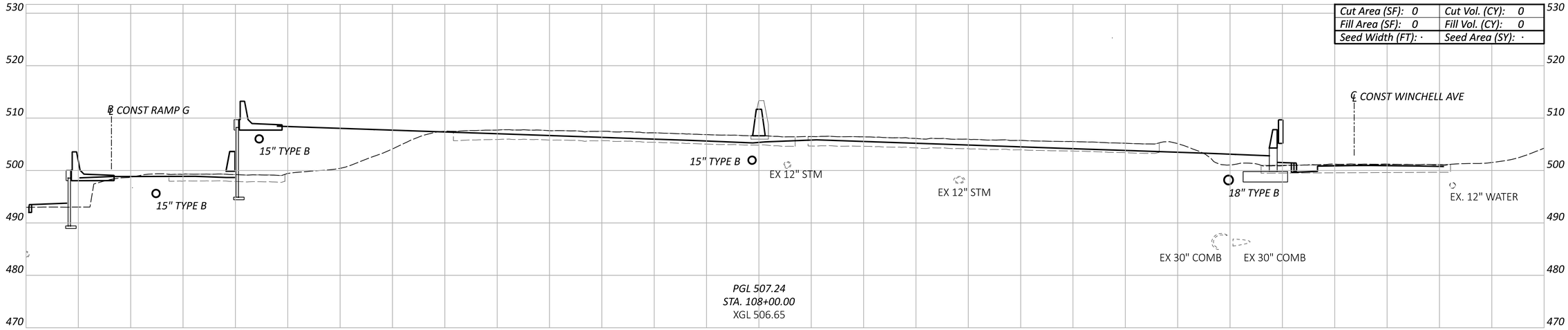
Sheet Totals		
Seeding	Cut	Fill
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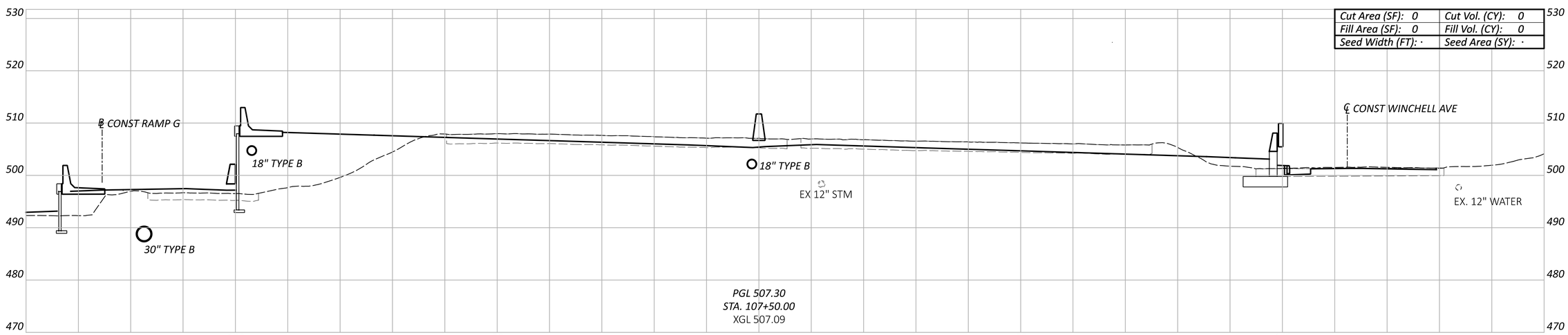
DESIGN AGENCY
EMH&T

DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.59
TOTAL	463

HAM-75-1.95

MODEL: IR-75 XS - 106+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 3:58:40 PM USER: jtheuring
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CROSS SECTIONS - IR 75
STA 107+50.00 TO STA 108+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

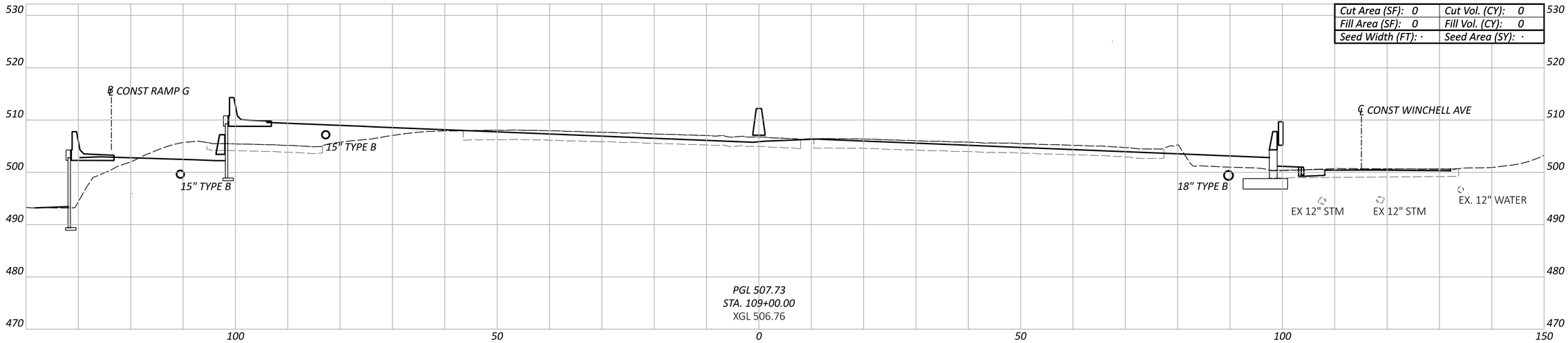
REVIEWER
MJR 06/21/24

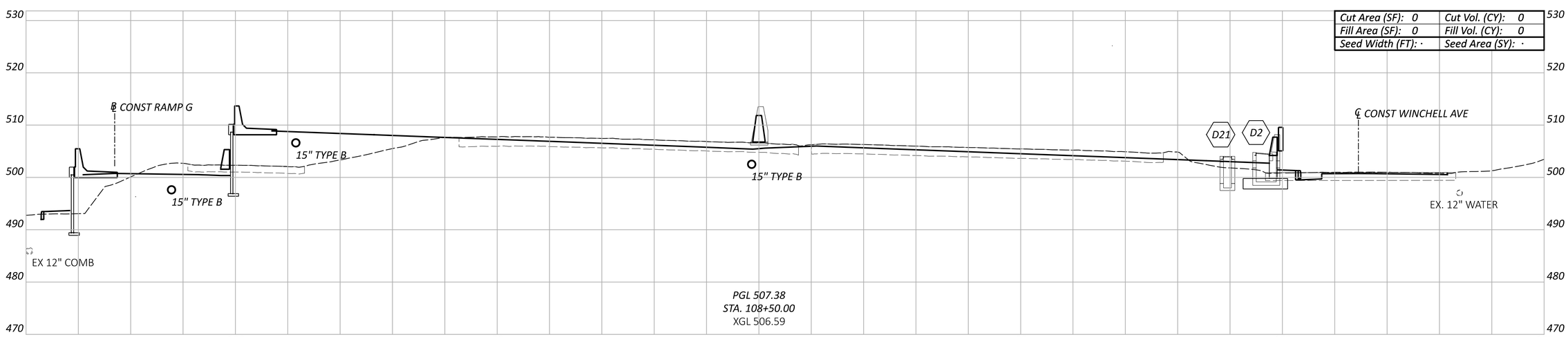
PROJECT ID
114161

SHEET P.60 | TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 108+50.00 TO STA 109+00.00

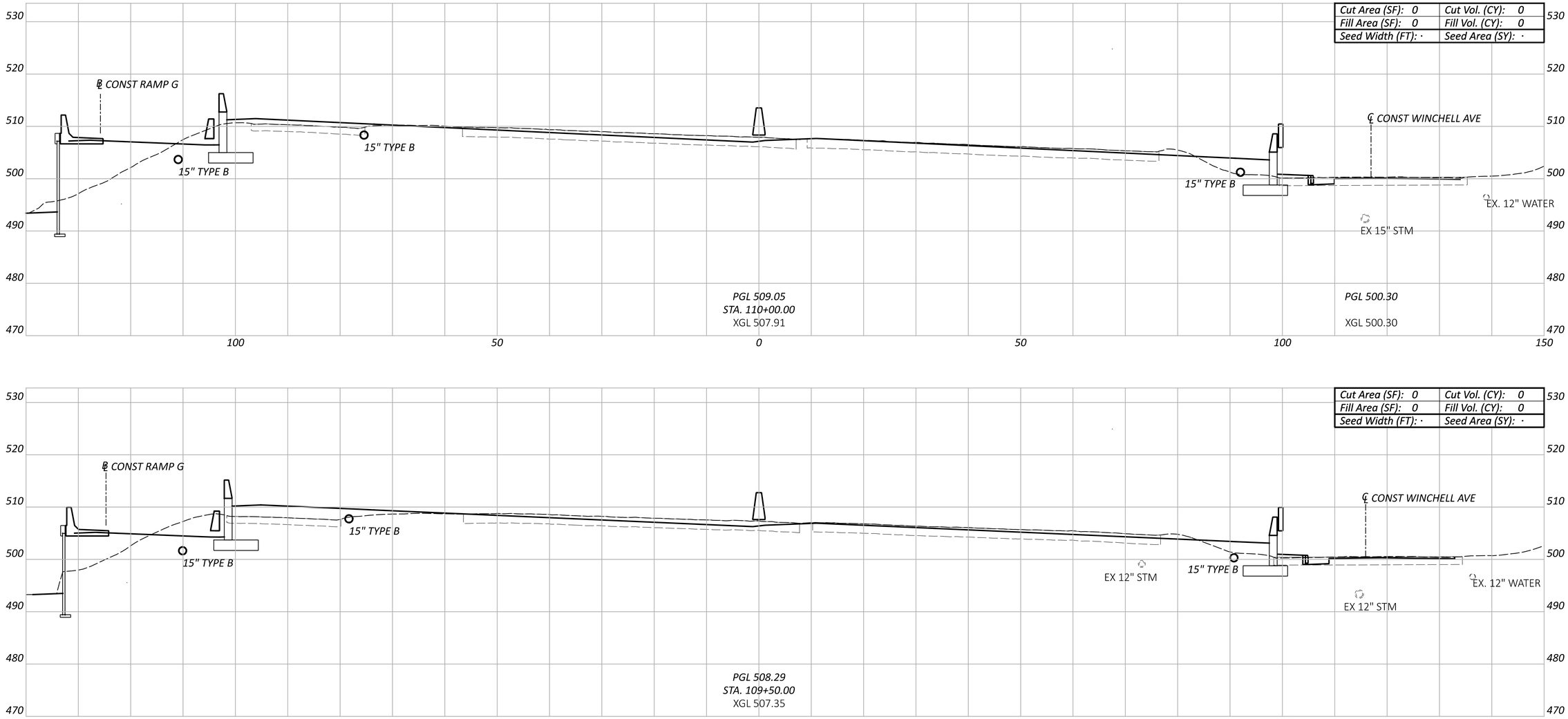
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Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.61
TOTAL	463



CROSS SECTIONS - IR 75
STA 109+50.00 TO STA 110+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

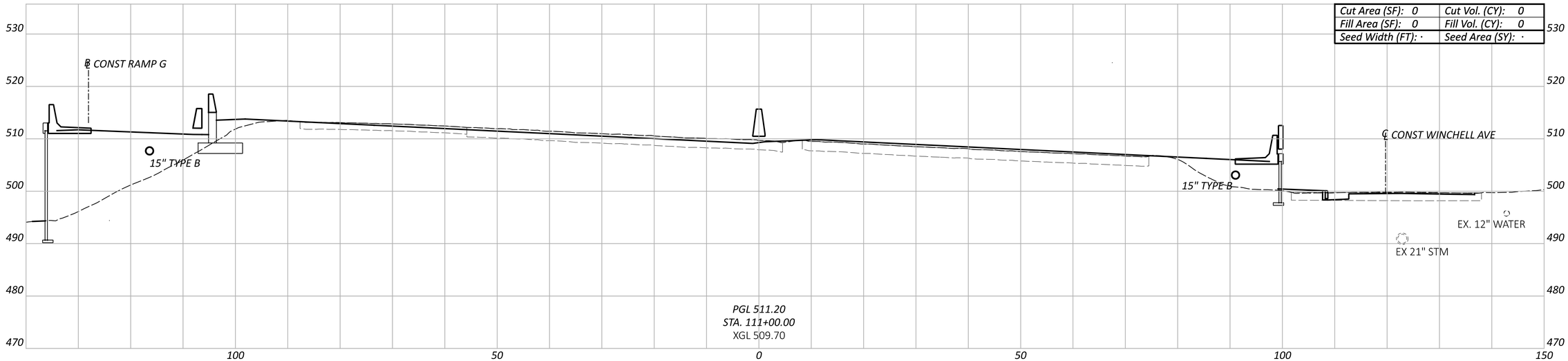
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MJR 06/21/24

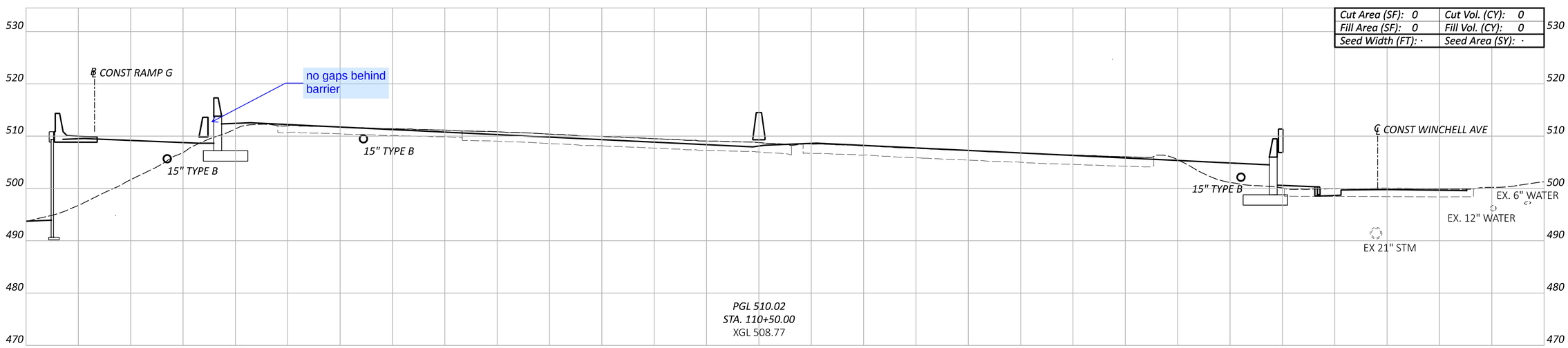
PROJECT ID
114161

SHEET P.62 | TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 110+50.00 TO STA 111+00.00

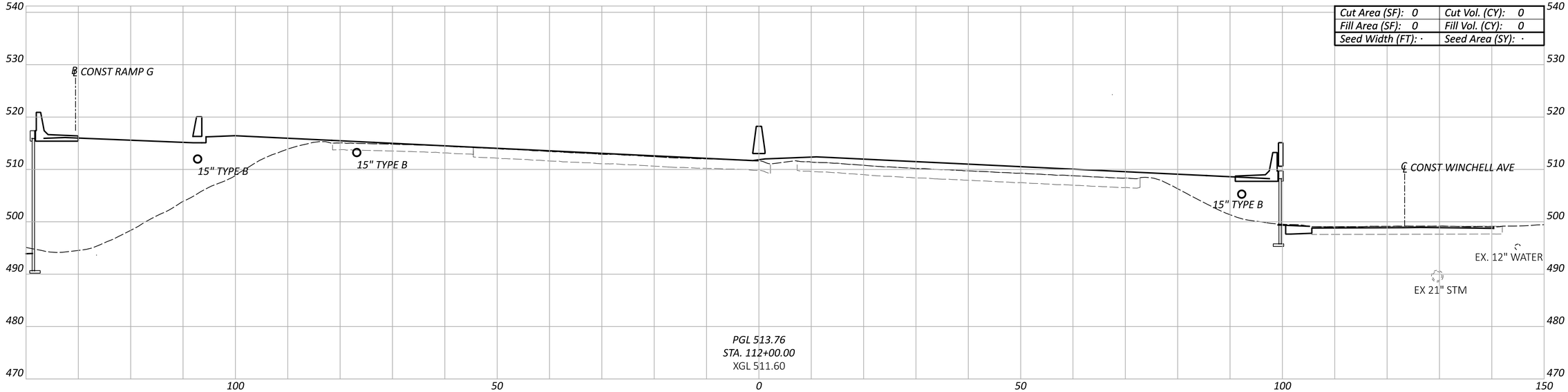
HAM-75-1.95

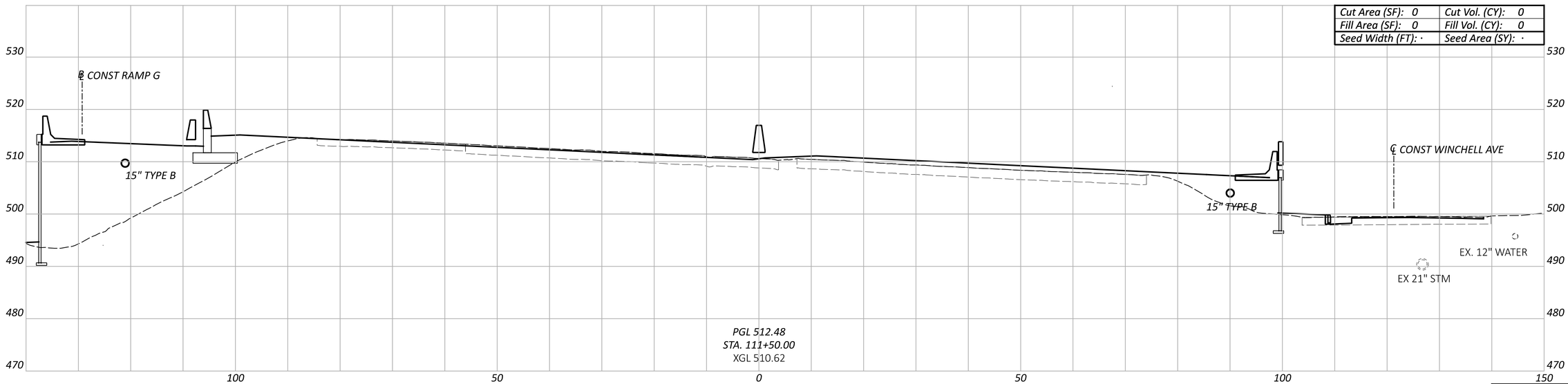
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Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.63
TOTAL	463





CROSS SECTIONS - IR 75
STA 111+50.00 TO STA 112+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

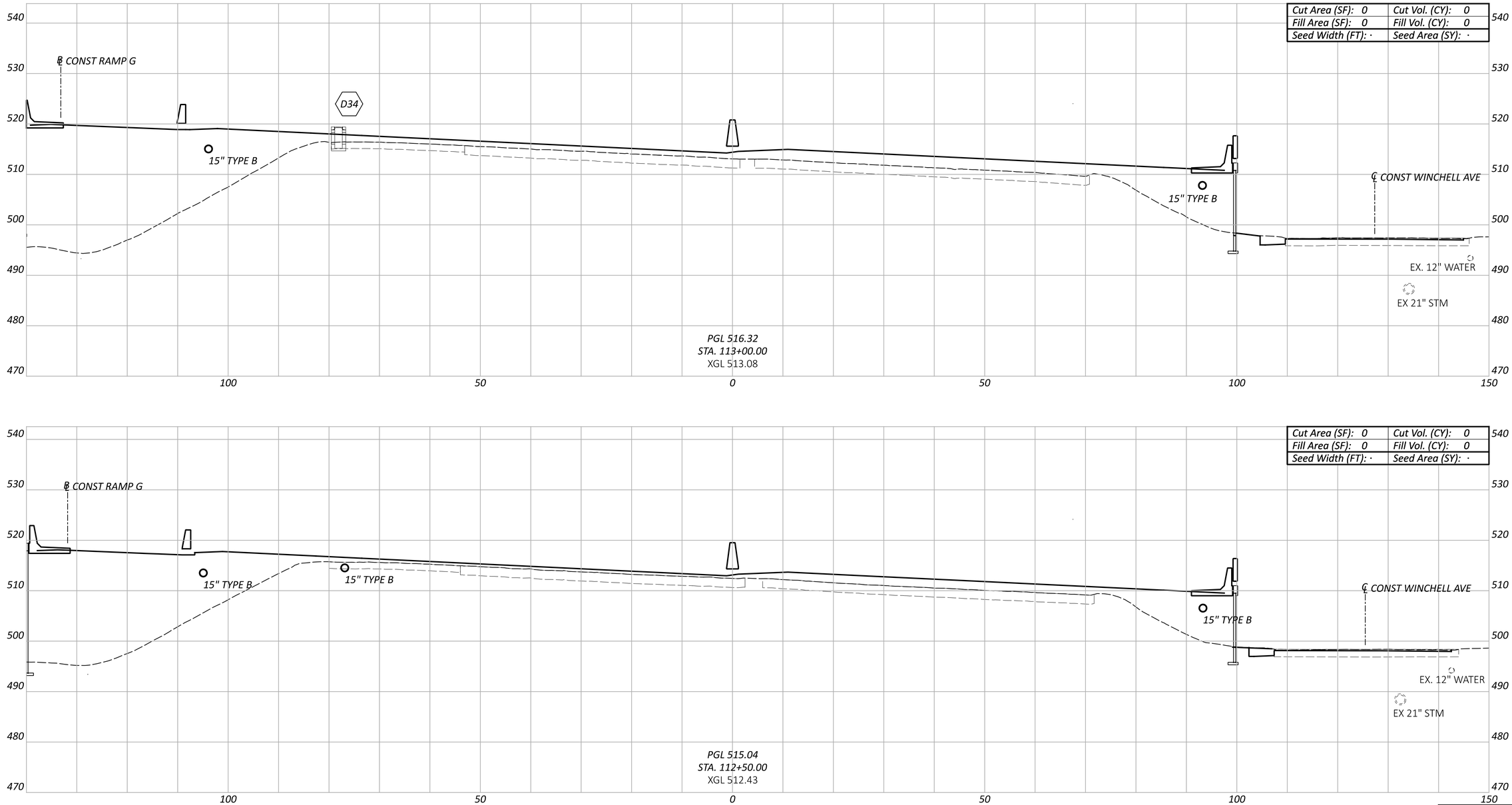
REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.64 | TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 112+50.00 TO STA 113+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

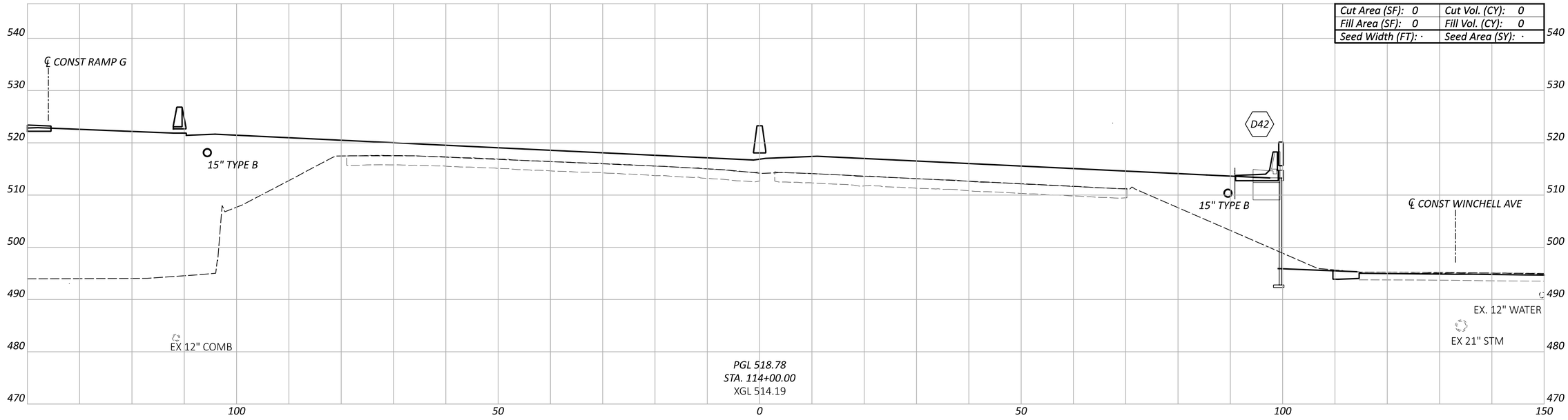
REVIEWER
MJR 06/21/24

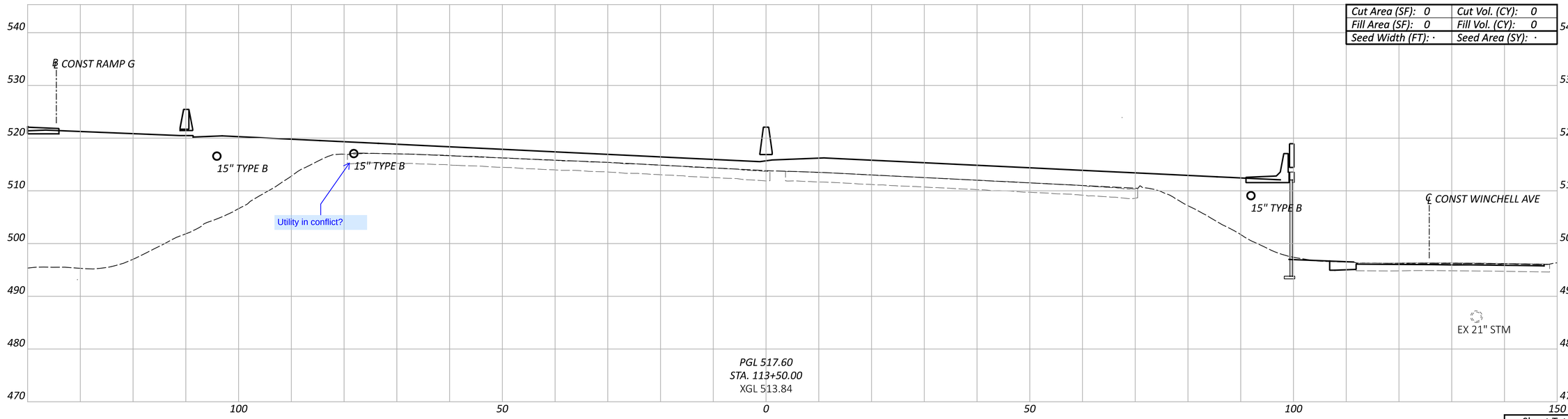
PROJECT ID
114161

SHEET P.65 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 113+50.00 TO STA 114+00.00

DESIGN AGENCY
EMH&T

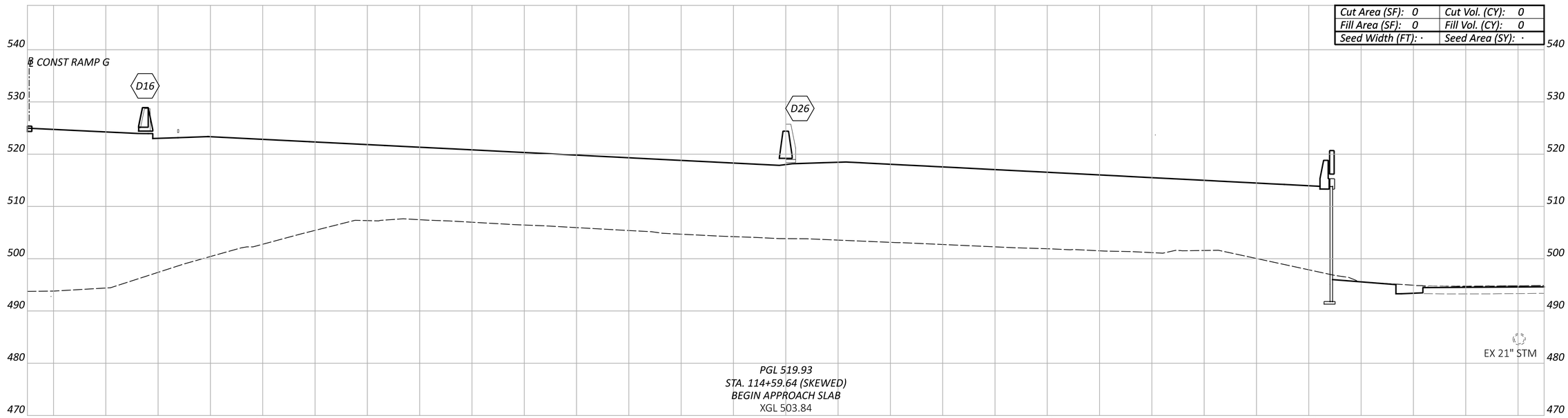
DESIGNER	
SJB	
REVIEWER	
MJR	06/21/24
PROJECT ID	
114161	
SHEET	TOTAL
P.66	463

Sheet Totals

Seeding	Cut	Fill
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HAM-75-1.95

MODEL: IR-75 XS - 113+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 1:58:22 PM USER: sbeal
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CROSS SECTIONS - IR 75
STA 114+50.00 TO STA 114+59.64

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.67 TOTAL 463

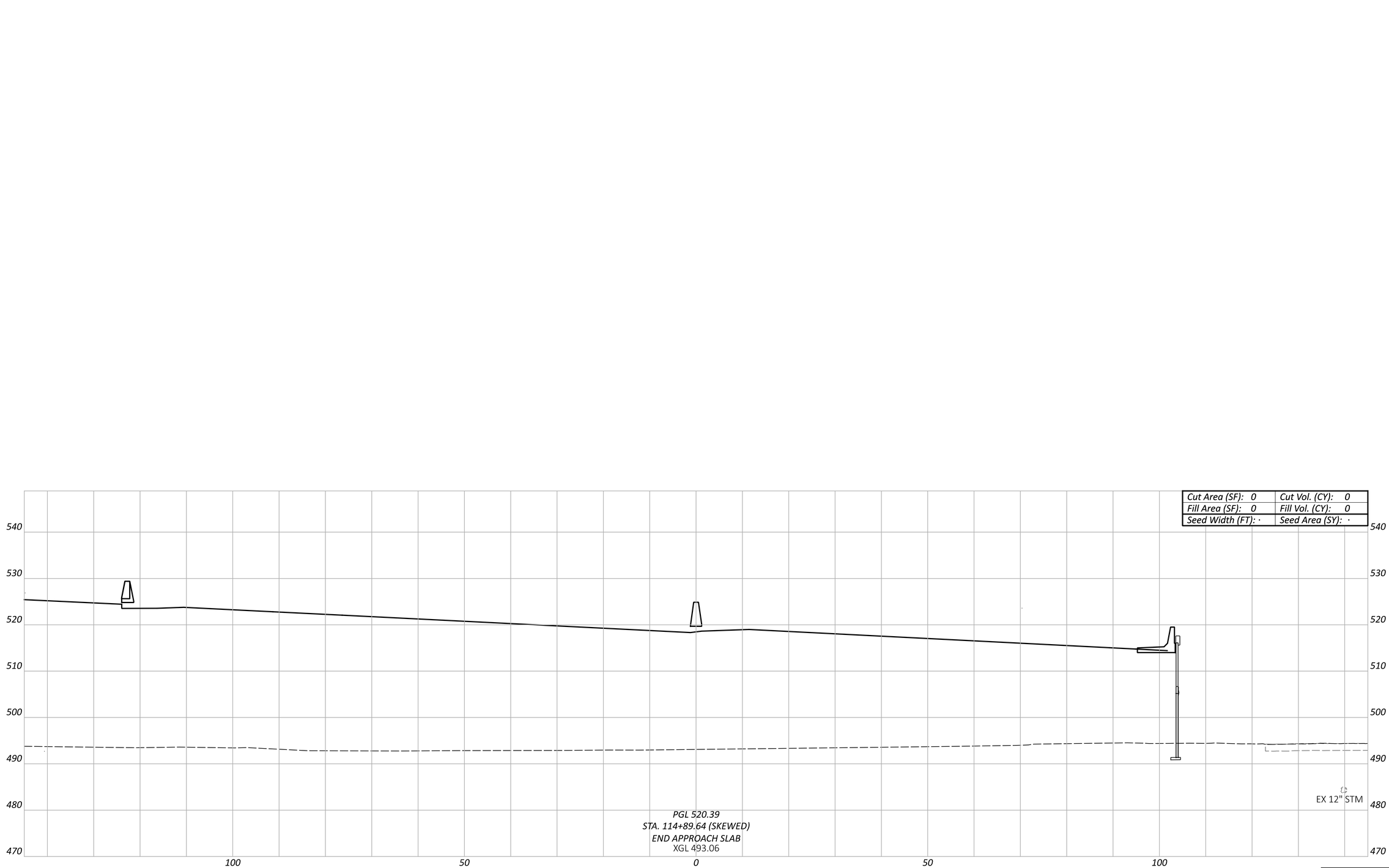
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HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 114+89.64



Sheet Totals		
Seeding	Cut	Fill
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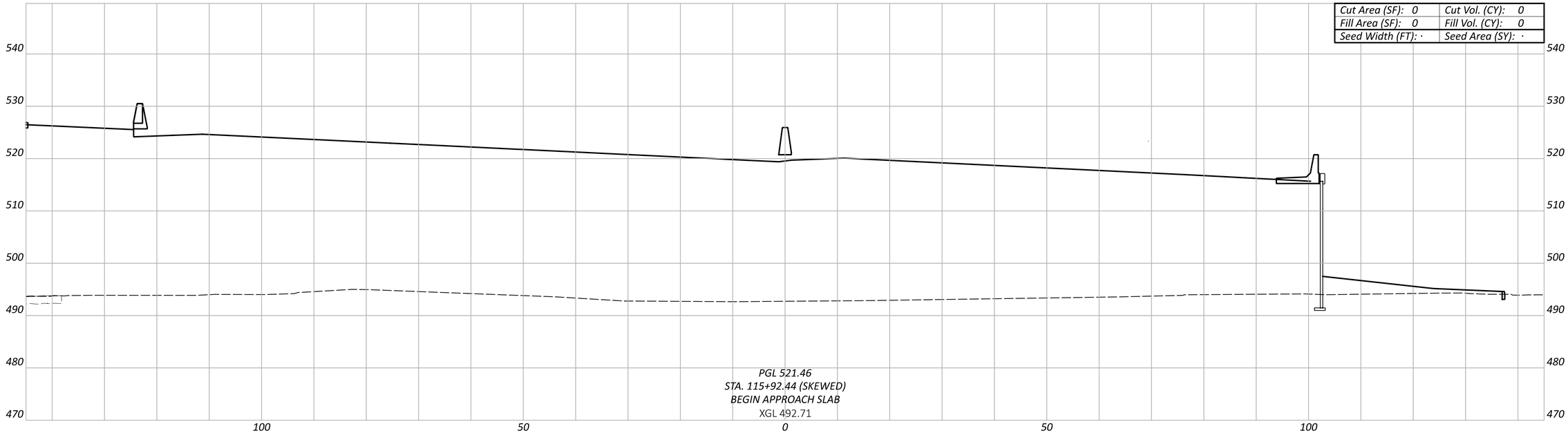
DESIGN AGENCY
EMHT

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.68 TOTAL 463



CROSS SECTIONS - IR 75
STA 115+92.44

HAM-75-1.95

MODEL: IR-75 XS - 115+92.44 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 1:59:19 PM USER: sbeal
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Sheet Totals		
Seeding	Cut	Fill
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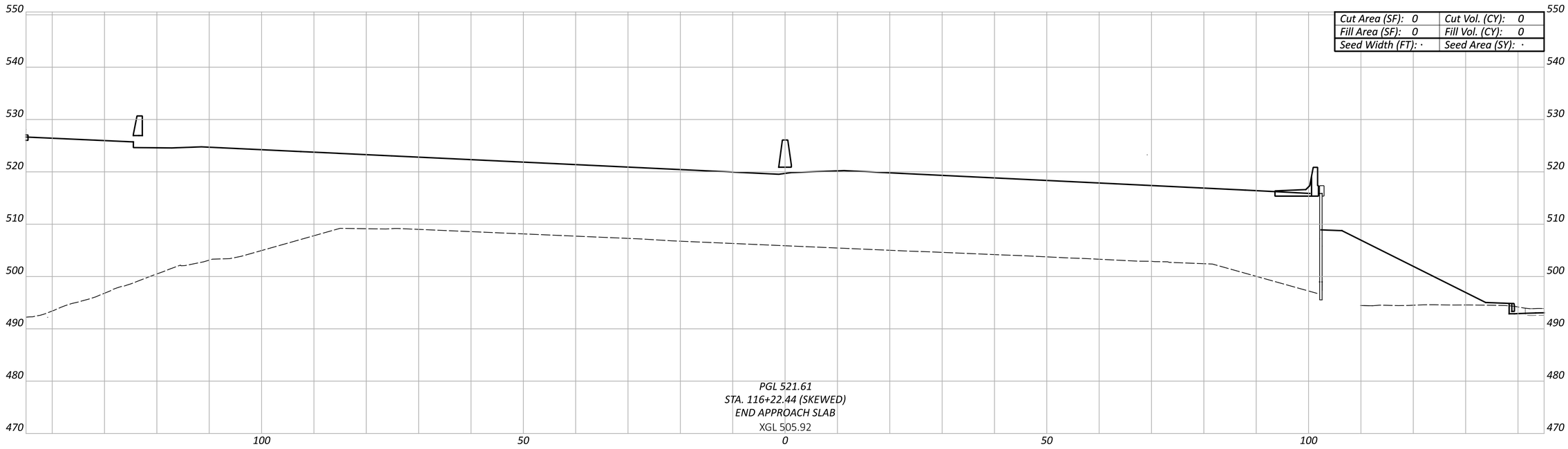
DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.69 TOTAL 463



CROSS SECTIONS - IR 75
STA 116+22.44

HAM-75-1.95

MODEL: IR-75 XS - 116+22.44 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 1:59:25 PM USER: sbeal
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Sheet Totals		
Seeding	Cut	Fill
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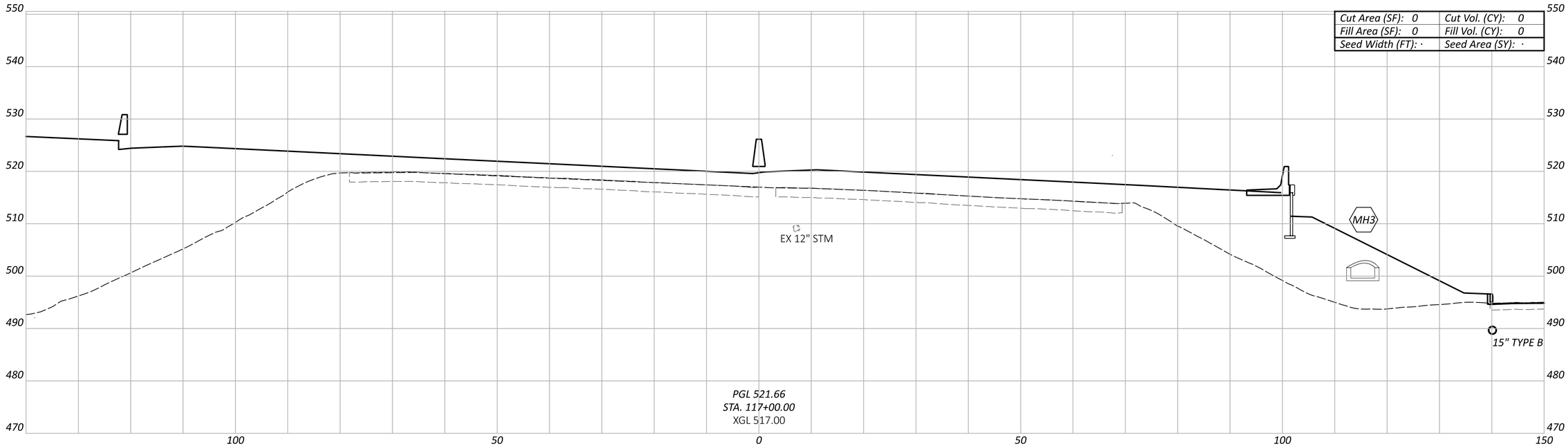
DESIGN AGENCY
EMH&T

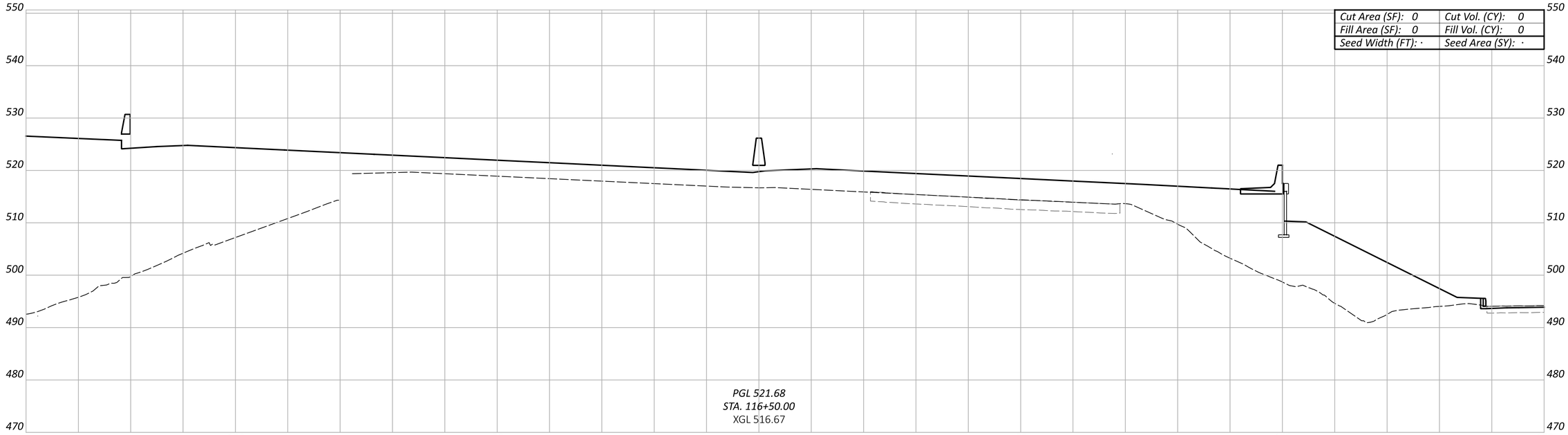
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.70 TOTAL 463





CROSS SECTIONS - IR 75
STA 116+50.00 TO STA 117+00.00

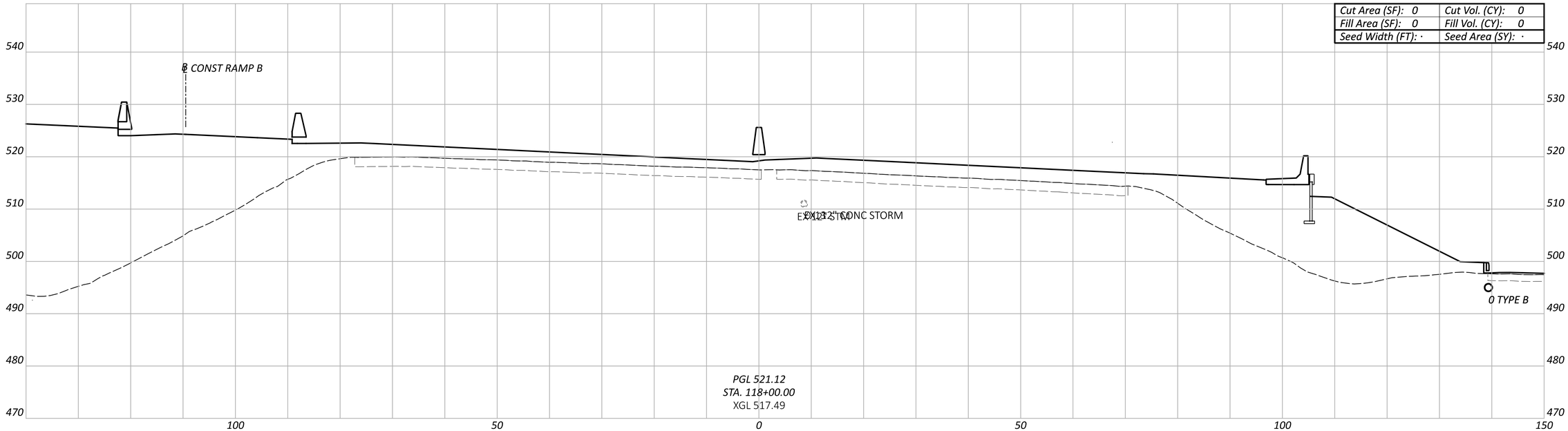
Sheet Totals		
Seeding	Cut	Fill
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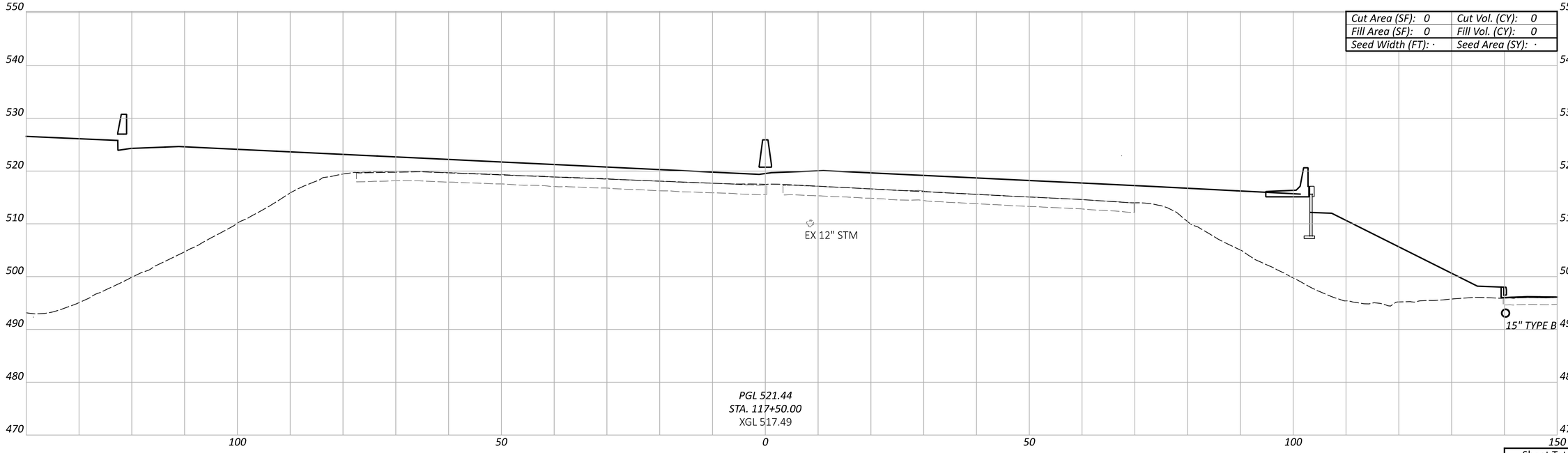
DESIGN AGENCY
EM H&T

DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.71
TOTAL	463

HAM-75-1.95

MODEL: IR-75 XS - 116+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 1:59:32 PM USER: sbeal
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CROSS SECTIONS - IR 75
STA 117+50.00 TO STA 118+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

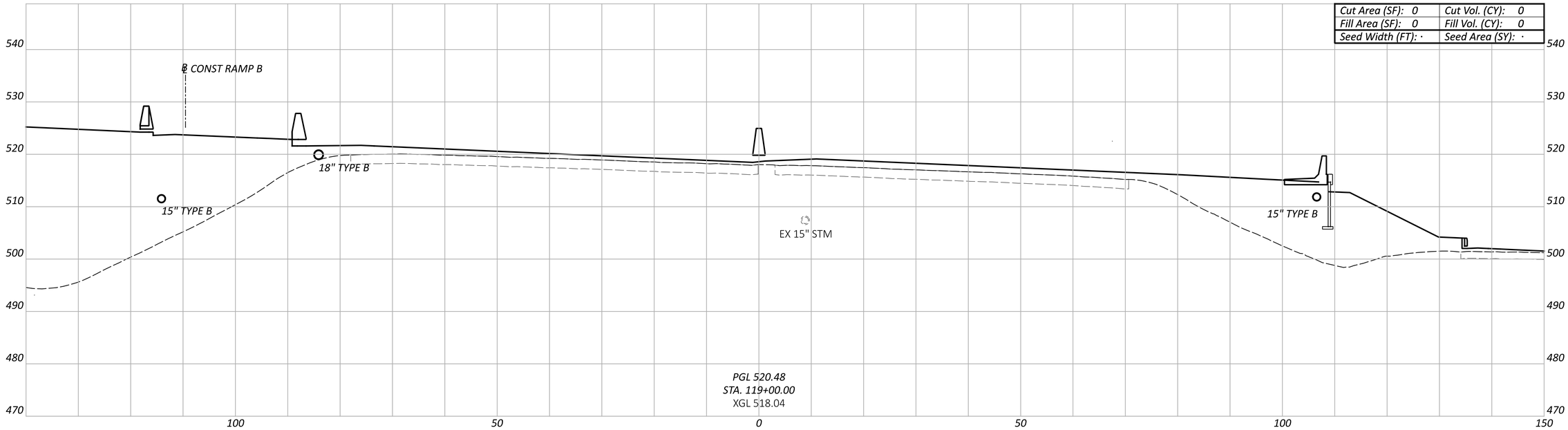
REVIEWER
MJR 06/21/24

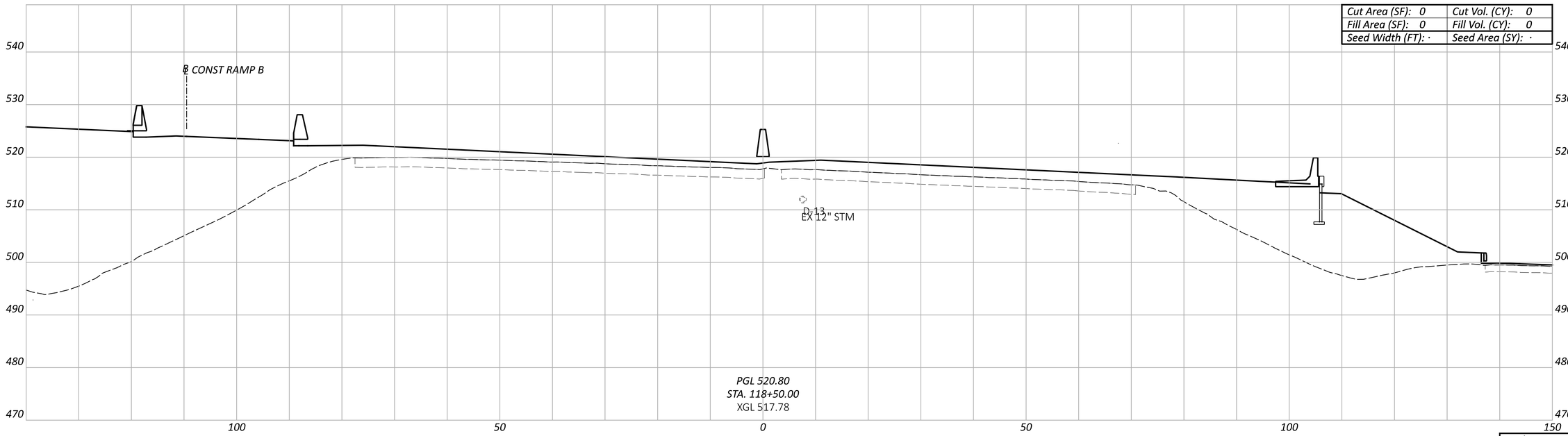
PROJECT ID
114161

SHEET P.72 | TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 118+50.00 TO STA 119+00.00

HAM-75-1.95

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DESIGN AGENCY
EMH&T

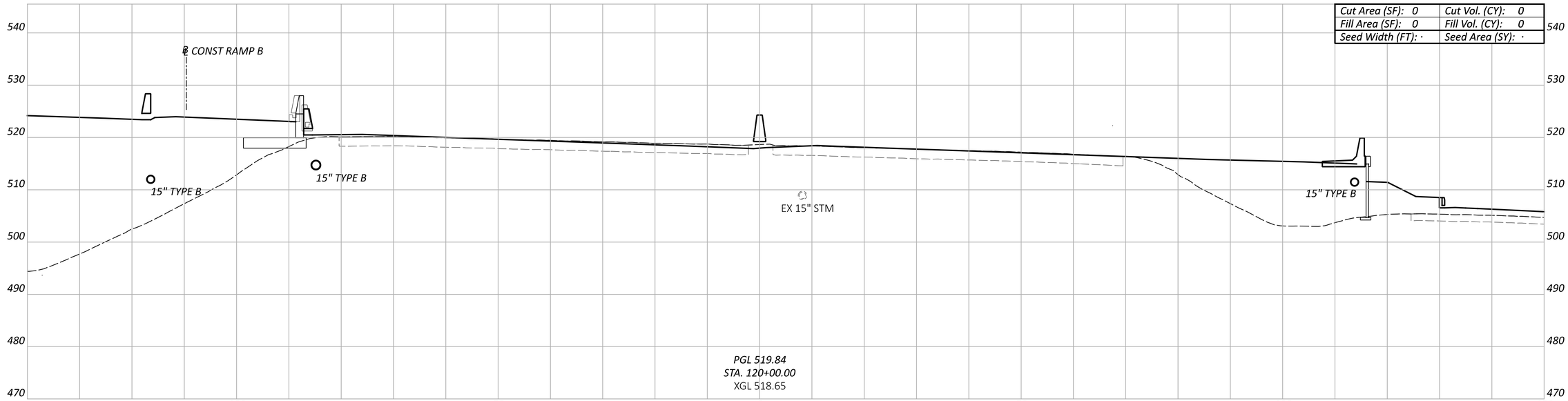
DESIGNER
SJB

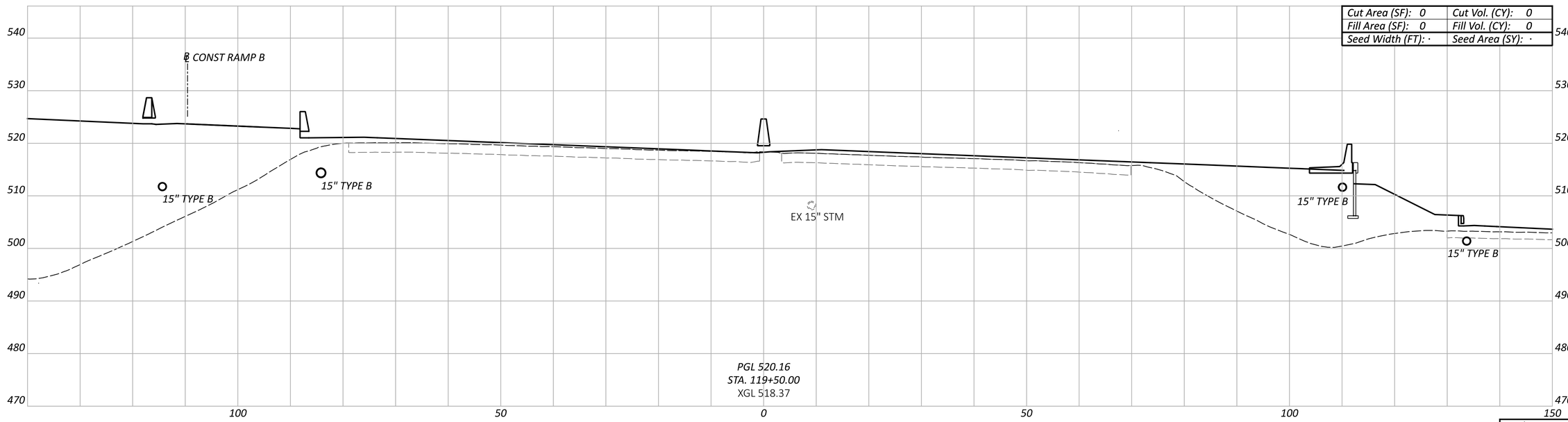
REVIEWER
MJR 06/21/24

PROJECT ID
114161

Sheet Totals		
Seeding	Cut	Fill
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SHEET	TOTAL
P.73	463





CROSS SECTIONS - IR 75
STA 119+50.00 TO STA 120+00.00

HAM-75-1.95

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Sheet Totals		
Seeding	Cut	Fill
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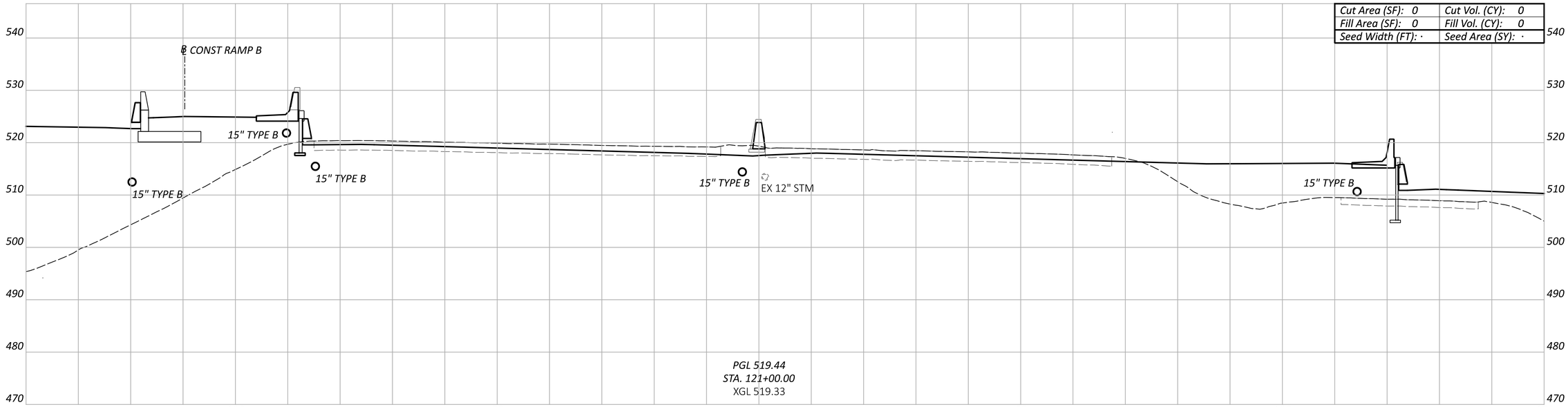
DESIGN AGENCY
EMH&T

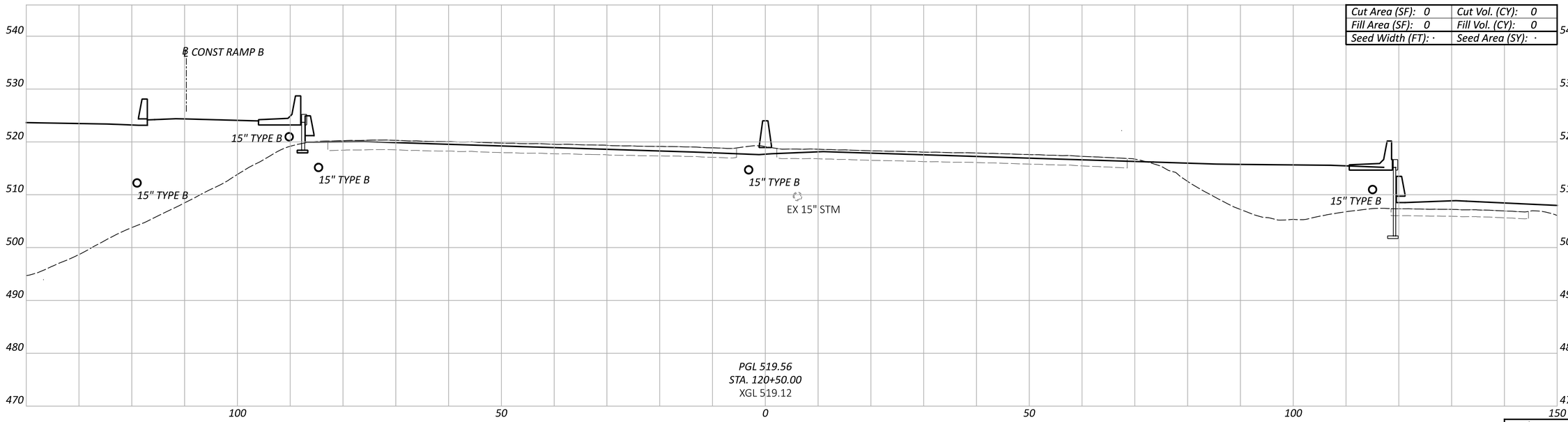
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.74 TOTAL 463





CROSS SECTIONS - IR 75
STA 120+50.00 TO STA 121+00.00

HAM-75-1.95

MODEL: IR-75 XS - 120+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:00:15 PM USER: sbeal
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Sheet Totals		
Seeding	Cut	Fill
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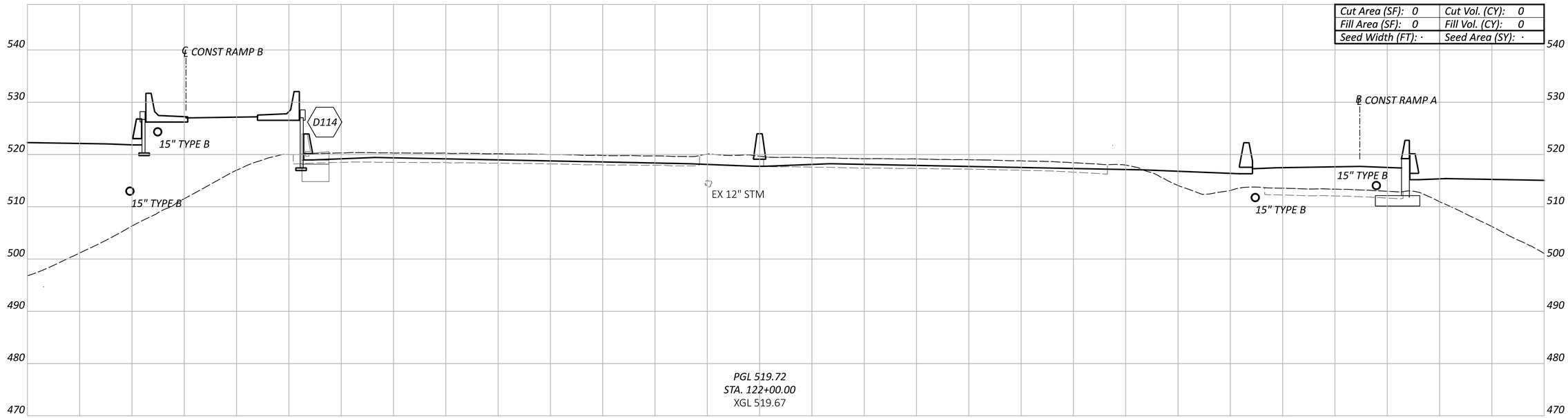
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EMH&T

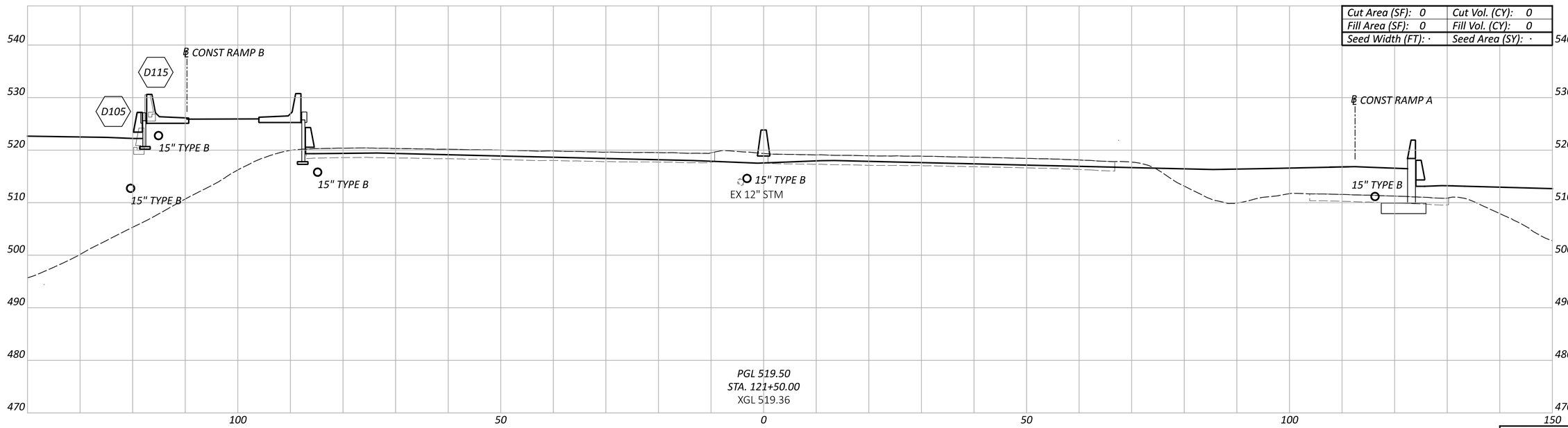
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.75 TOTAL 463





CROSS SECTIONS - IR 75
STA 121+50.00 TO STA 122+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

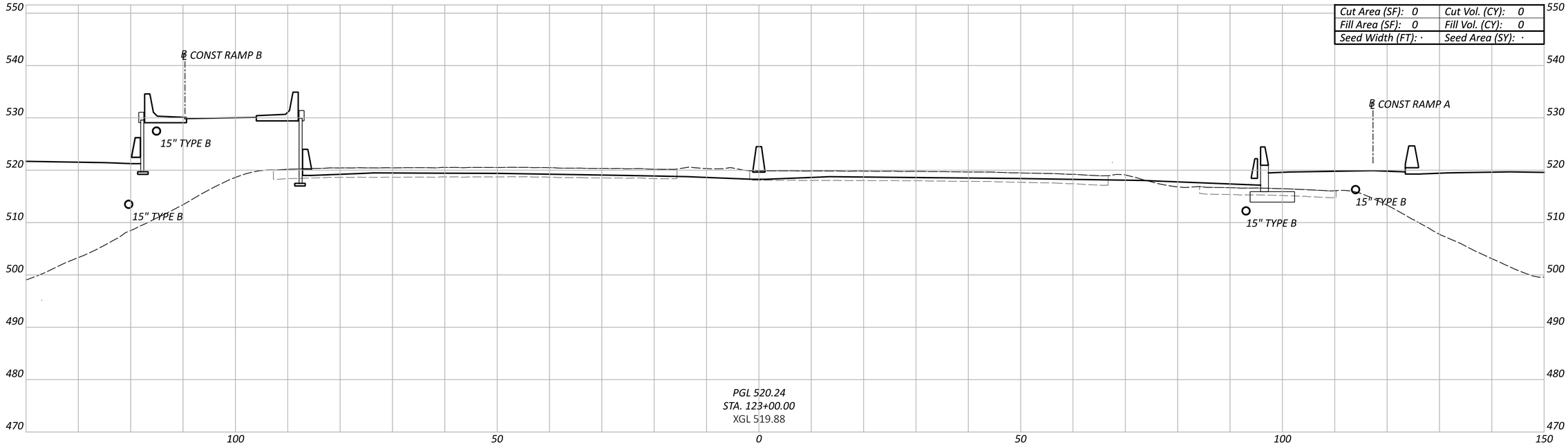
REVIEWER
MJR 06/21/24

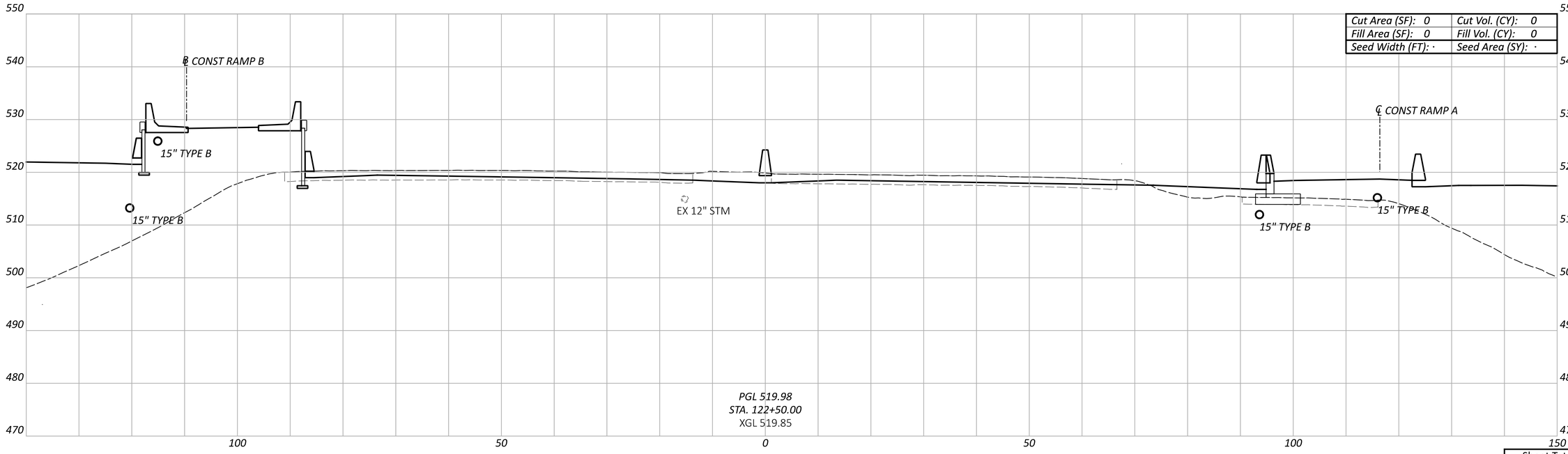
PROJECT ID
114161

SHEET P.76 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 122+50.00 TO STA 123+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

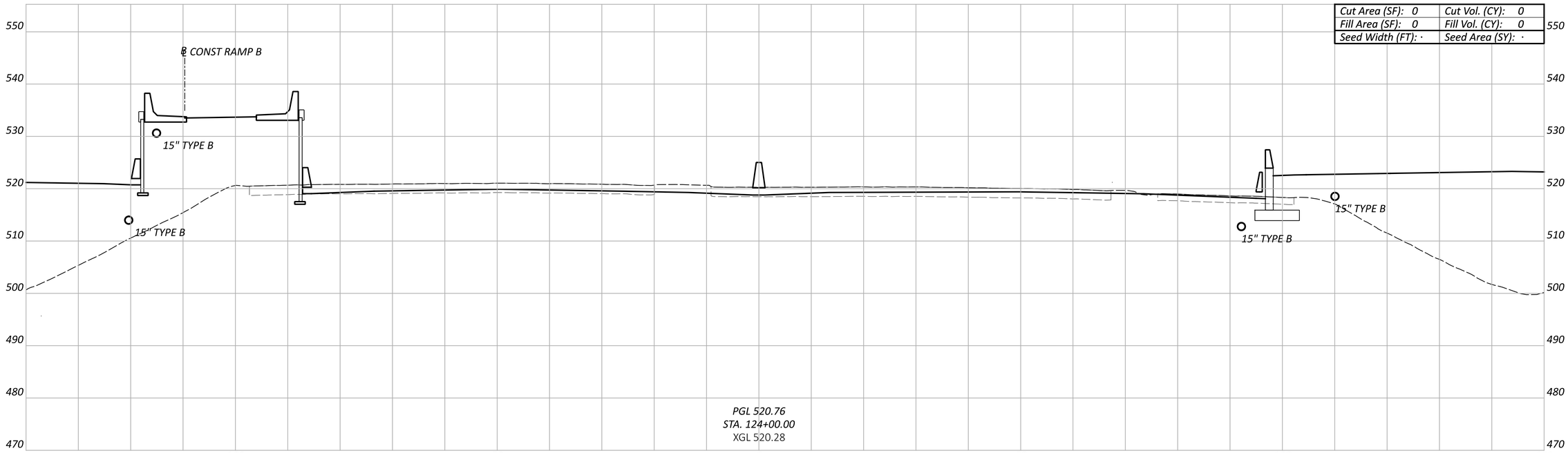
PROJECT ID
114161

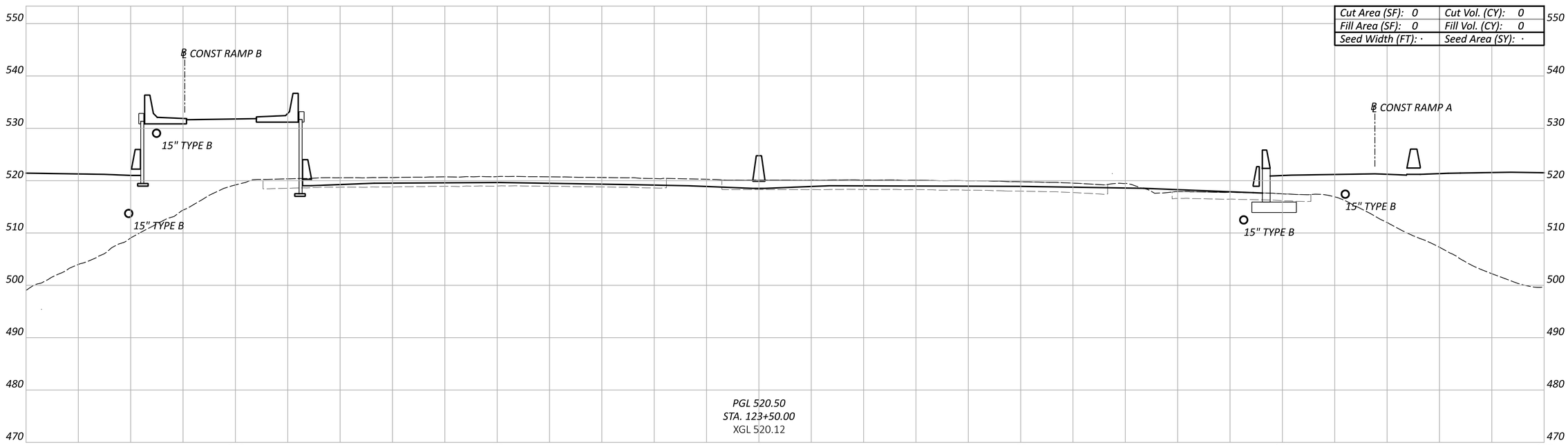
SHEET
P.77

TOTAL
463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 123+50.00 TO STA 124+00.00

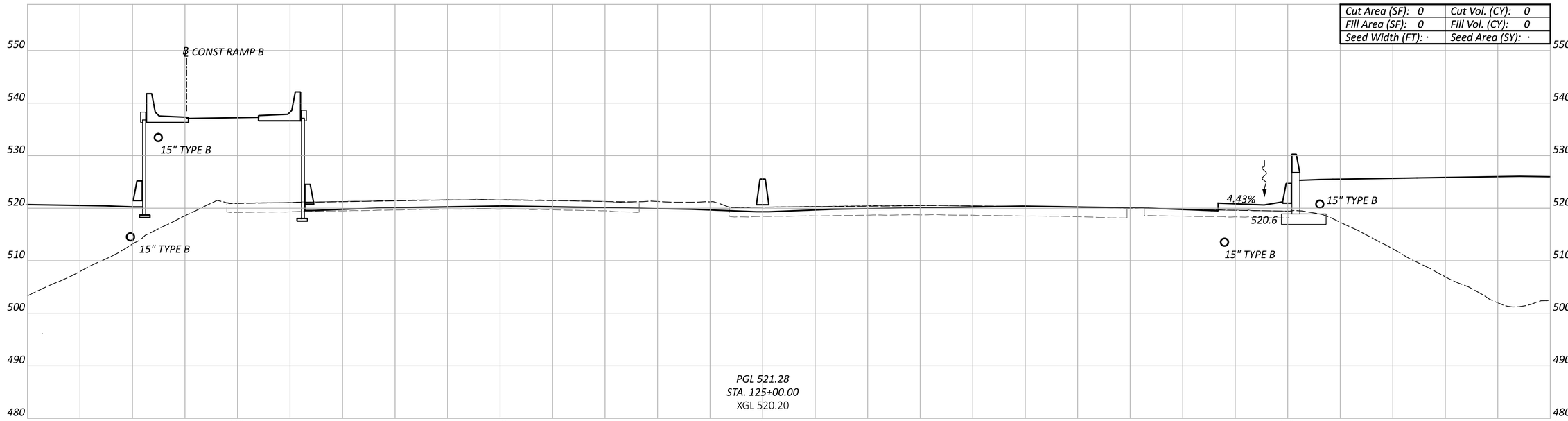
Sheet Totals		
Seeding	Cut	Fill
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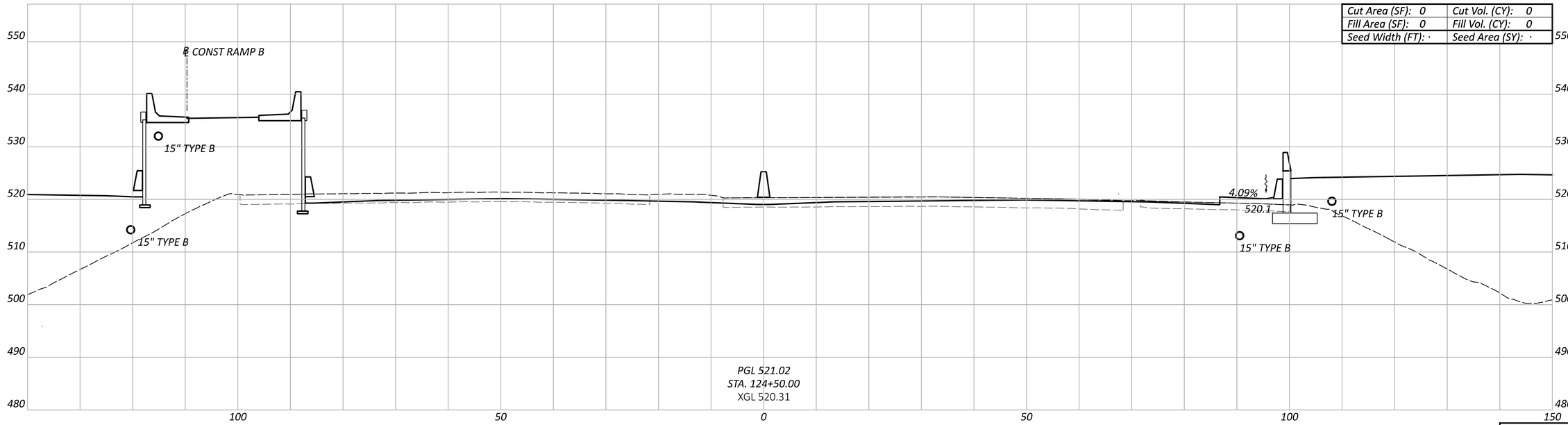
DESIGN AGENCY
EMH&T

DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.78
TOTAL	463

HAM-75-1.95

MODEL: IR-75 XS - 123+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:00:47 PM USER: sbeal
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CROSS SECTIONS - IR 75
STA 124+50.00 TO STA 125+00.00

HAM-75-1.95

MODEL: IR-75 XS - 124+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:00:57 PM USER: sbeal
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Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

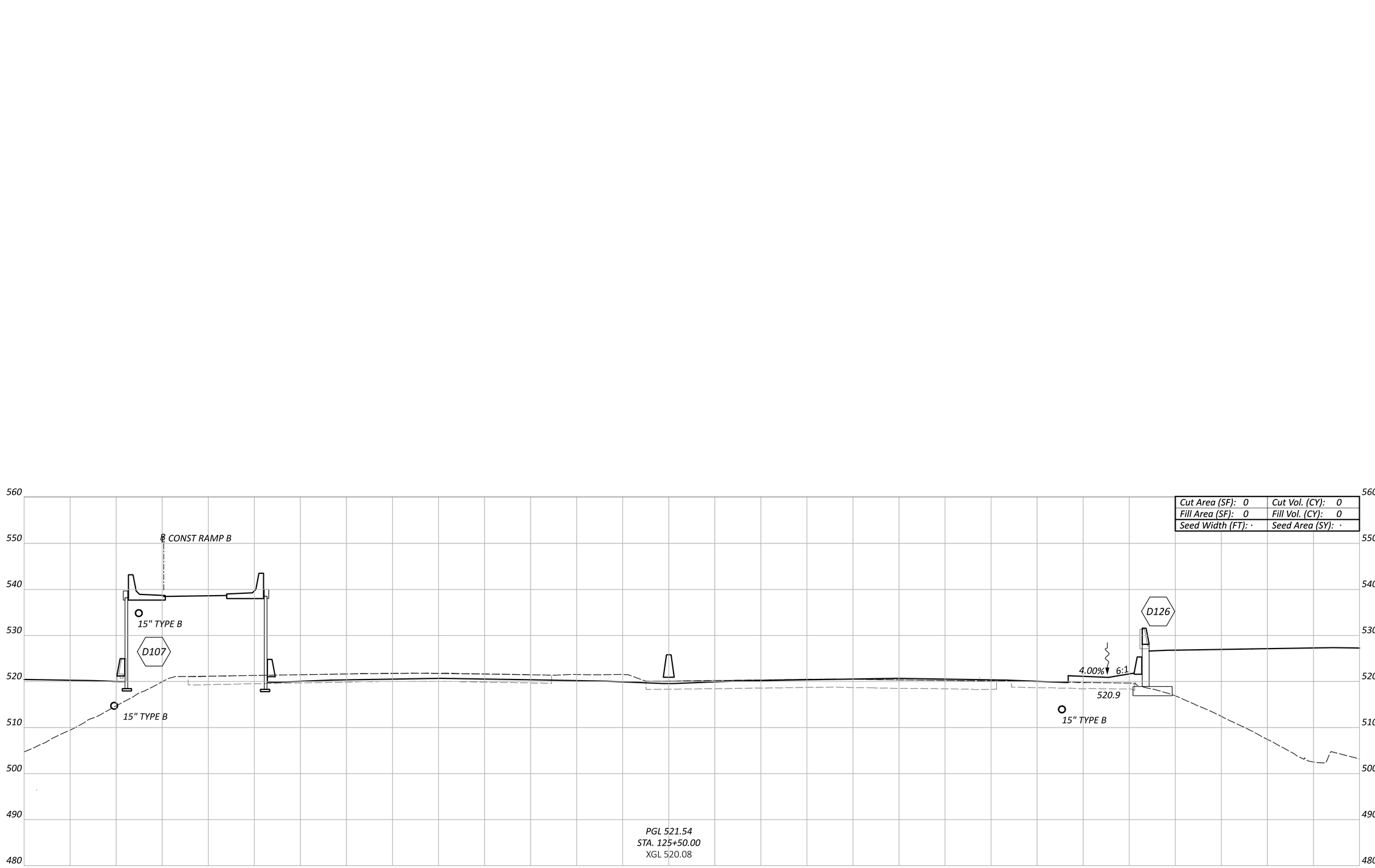
REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.79 TOTAL 463

HAM-75-1.95

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Sheet Totals

Seeding	Cut	Fill
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CROSS SECTIONS - IR 75
STA 125+50.00

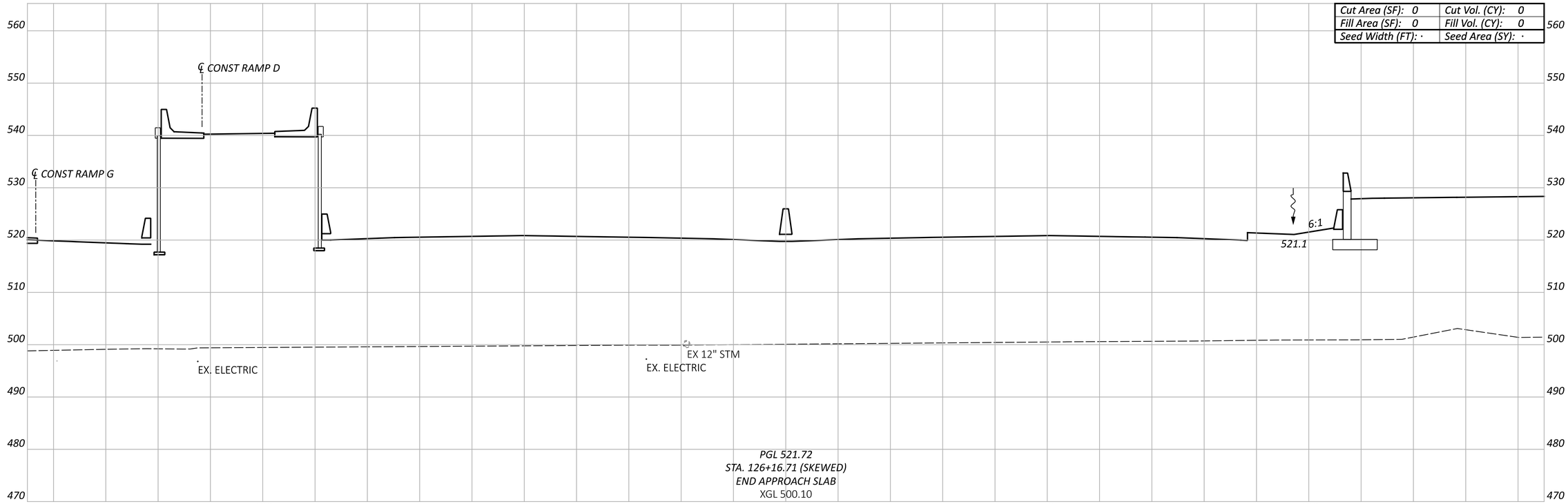
DESIGN AGENCY
EMHT

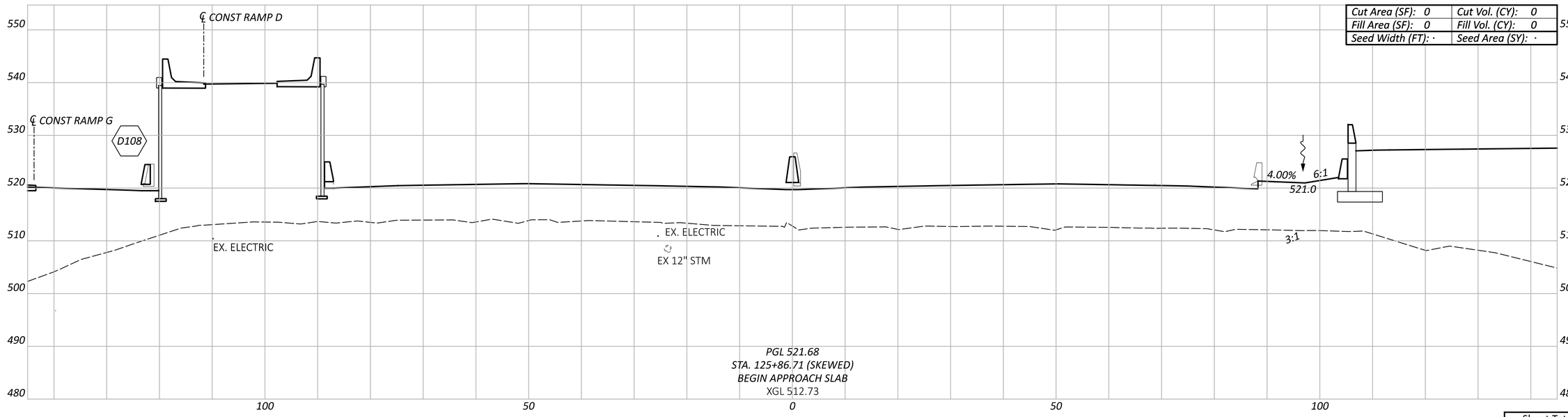
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.80 TOTAL 463





CROSS SECTIONS - IR 75
STA 125+86.71 TO STA 126+16.71

DESIGN AGENCY
EMHT

DESIGNER
SJB

REVIEWER
MJR 06/21/24

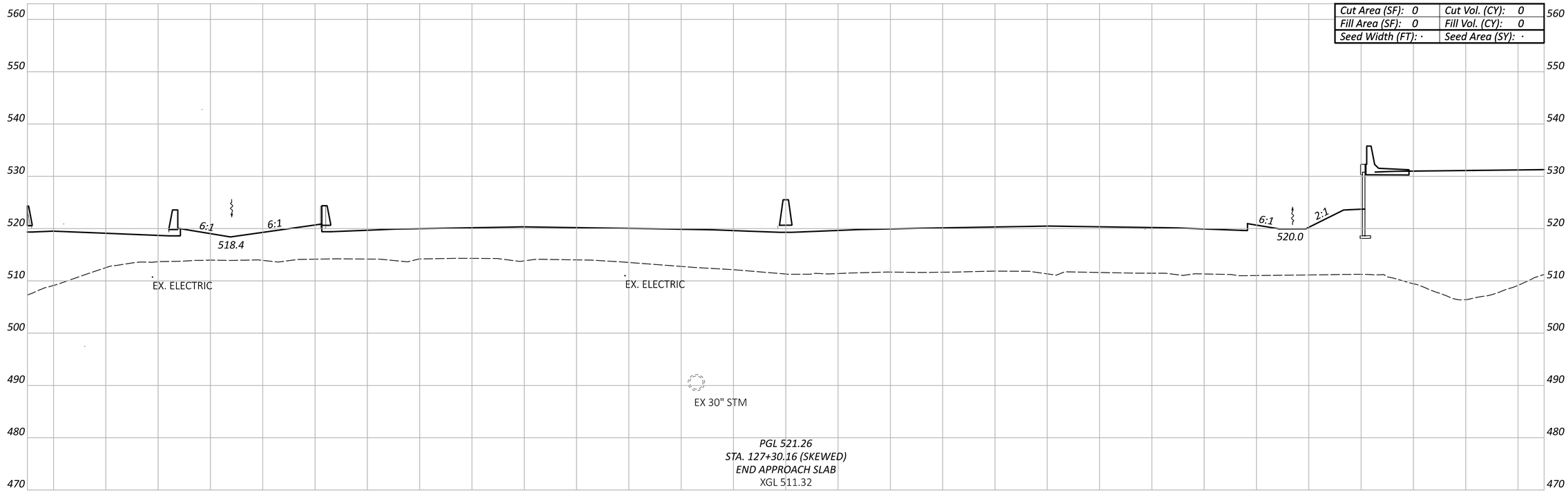
PROJECT ID
114161

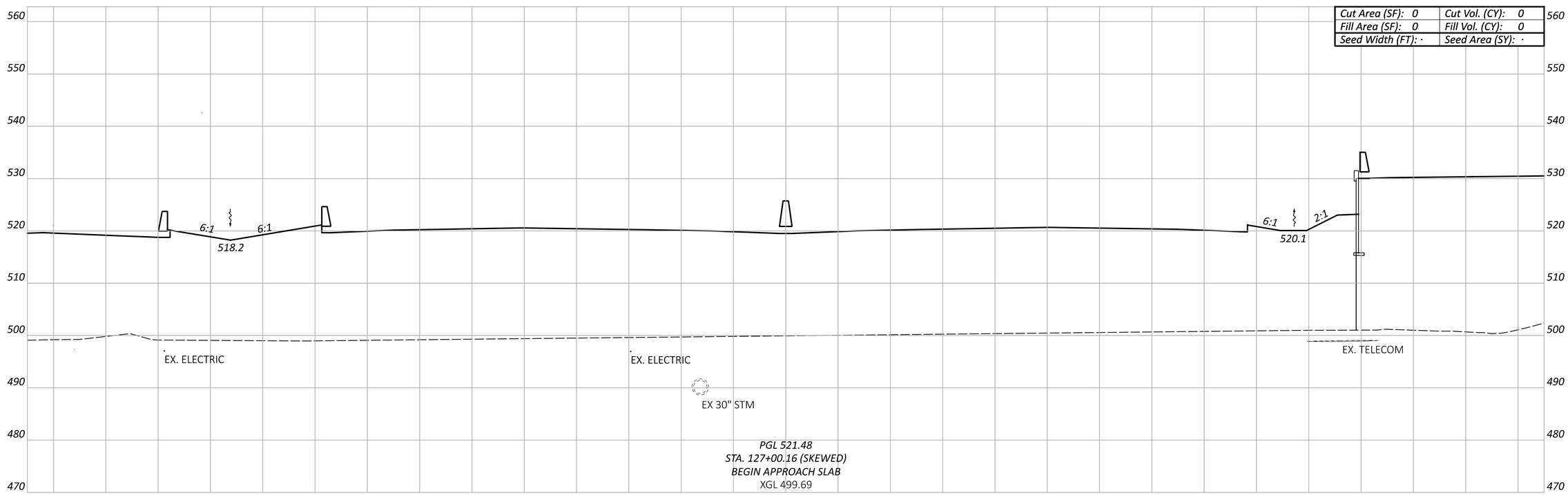
Sheet Totals		
Seeding	Cut	Fill
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SHEET P.81 TOTAL 463

HAM-75-1.95

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Sheet Totals

Seeding	Cut	Fill
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CROSS SECTIONS - IR 75
STA 127+00.16 TO STA 127+30.16

DESIGN AGENCY
EMH&T

DESIGNER
SJB

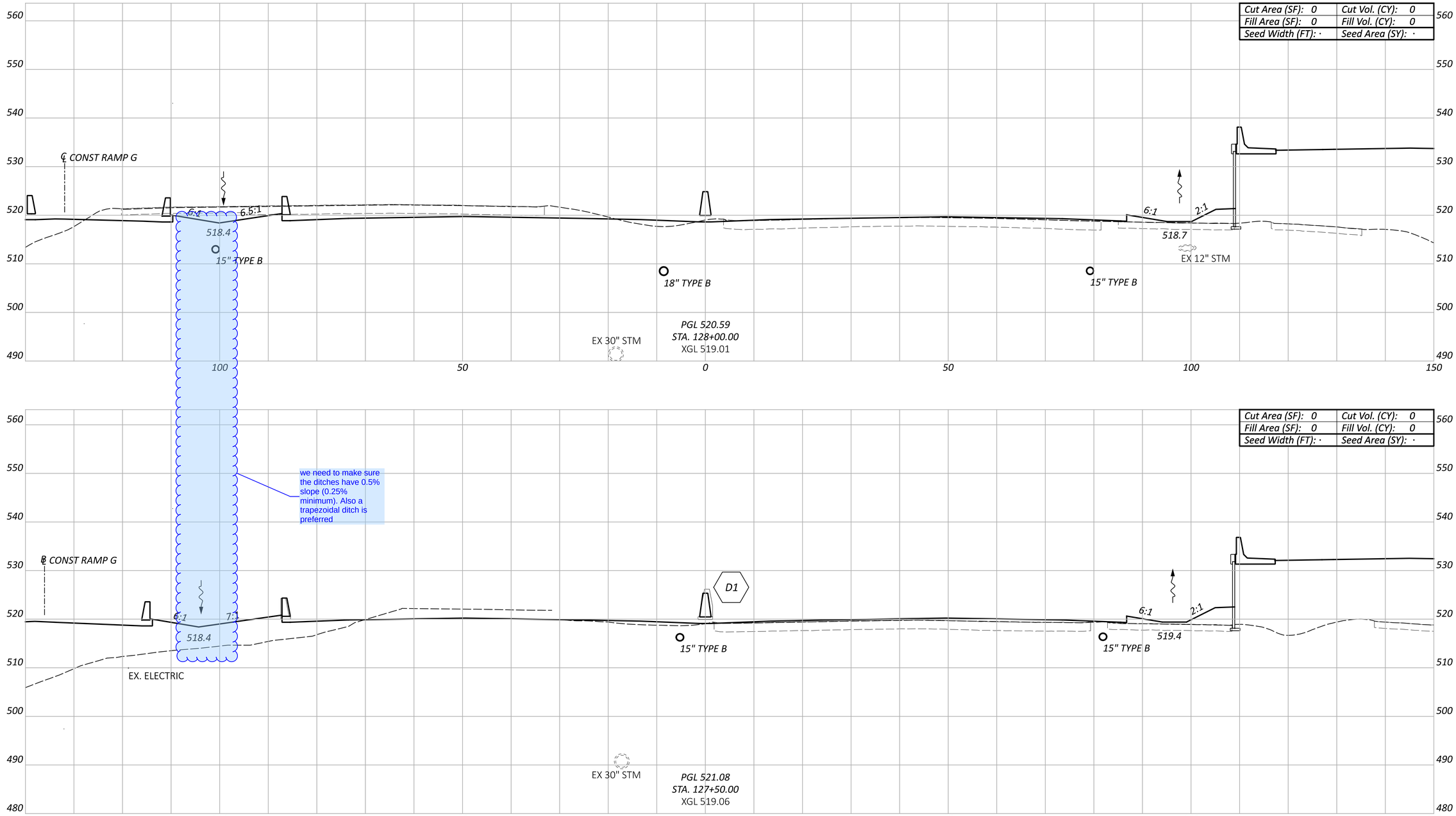
REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.82 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 127+50.00 TO STA 128+00.00

Sheet Totals		
Seeding	Cut	Fill
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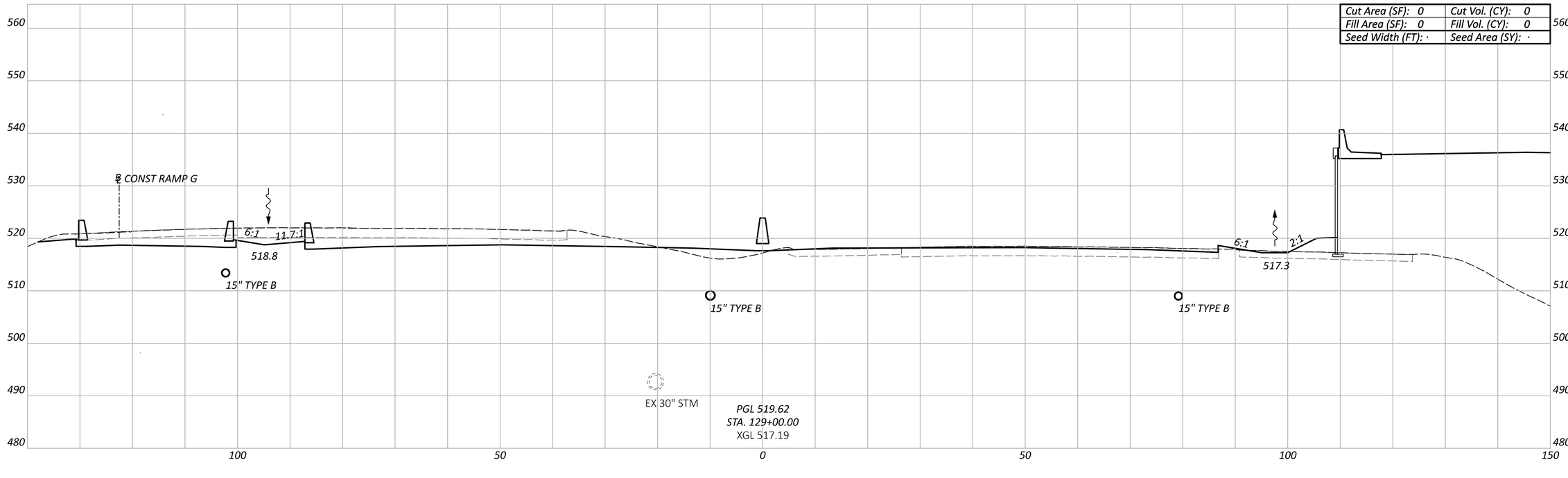
DESIGN AGENCY
EMHT

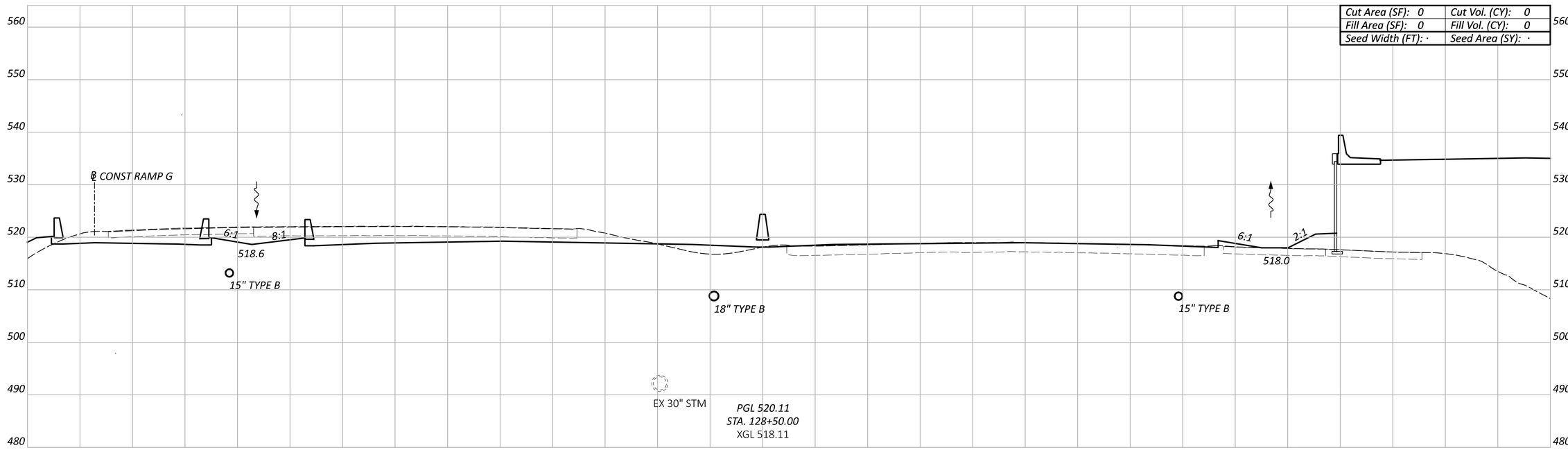
DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.83
TOTAL	463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 128+50.00 TO STA 129+00.00





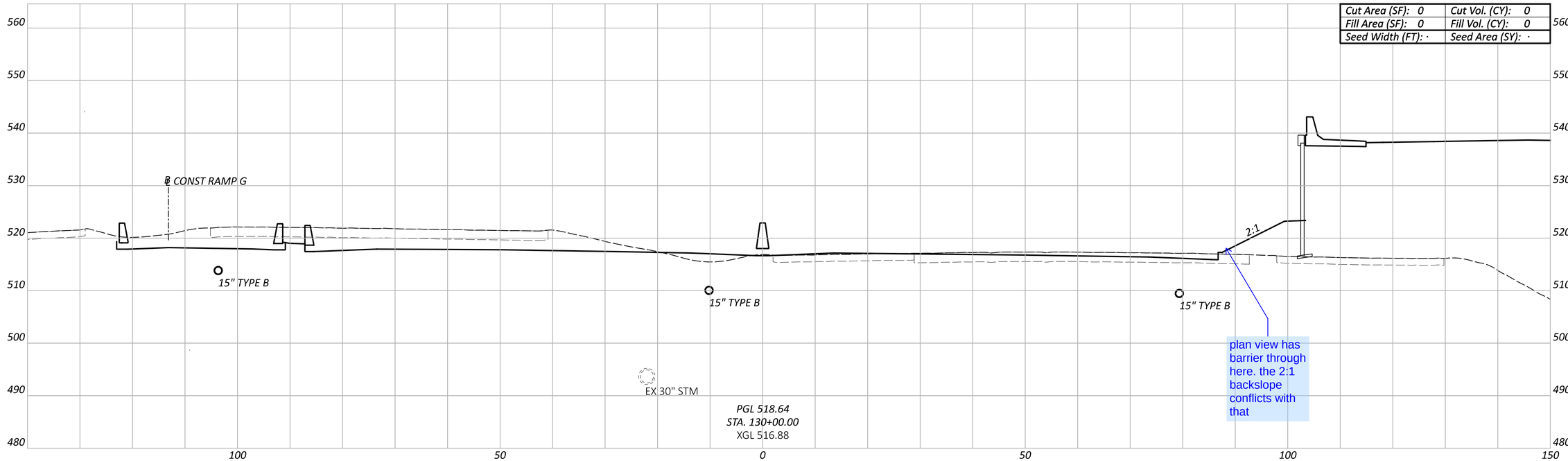
Sheet Totals		
Seeding	Cut	Fill
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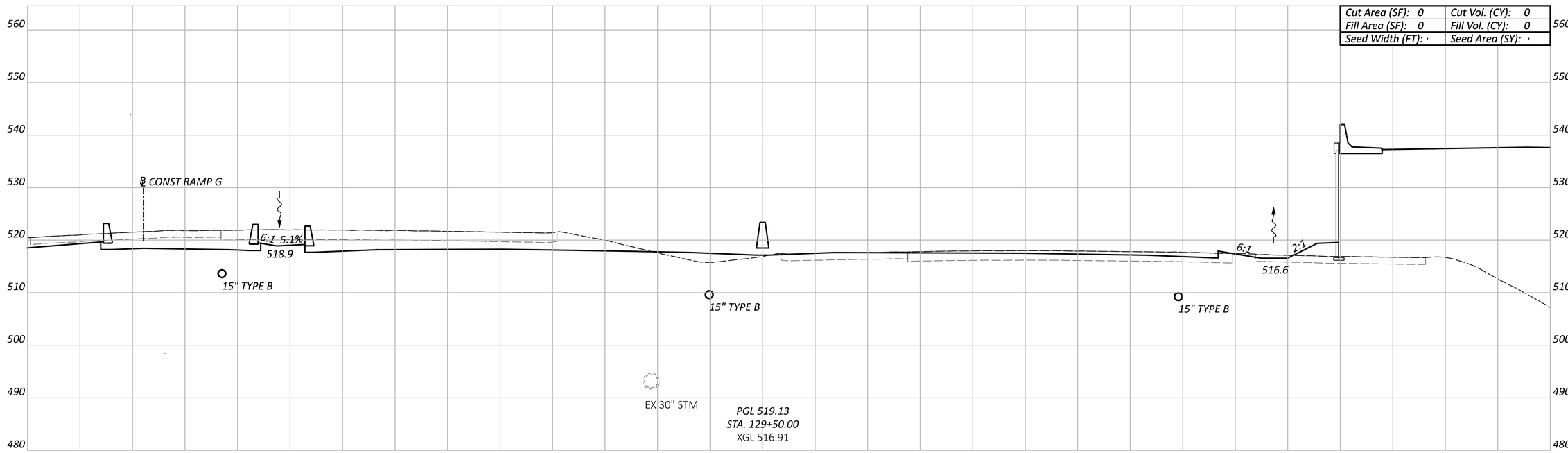
DESIGN AGENCY
EMH&T

DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.84
TOTAL	463

HAM-75-1.95

MODEL: IR-75 XS - 128+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:01:57 PM USER: sbeal
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CROSS SECTIONS - IR 75
STA 129+50.00 TO STA 130+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

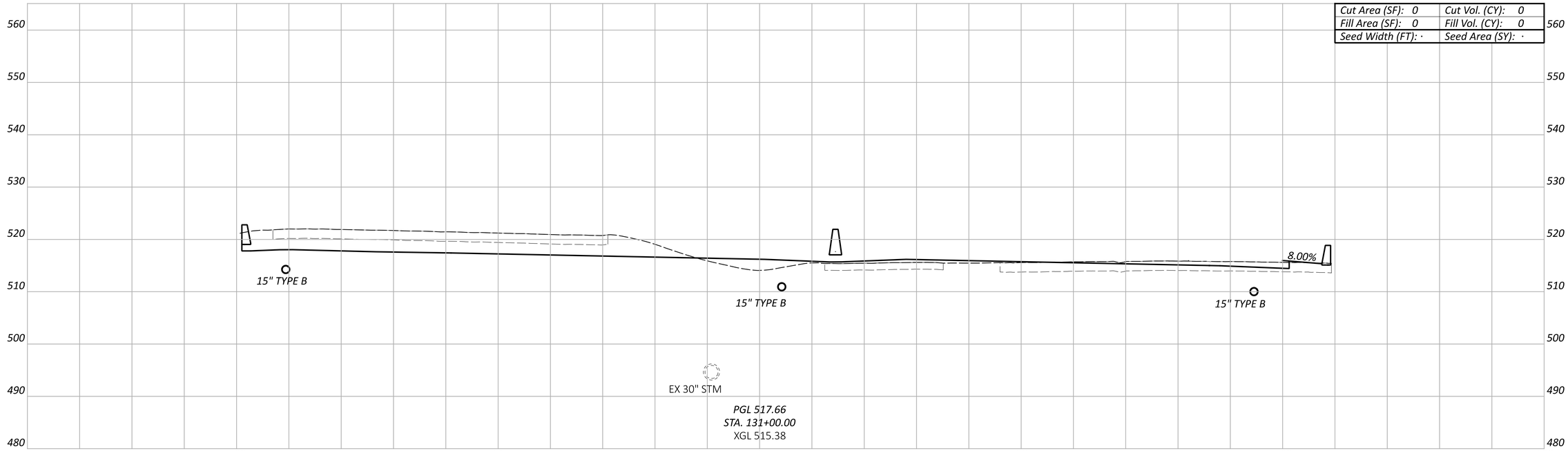
REVIEWER
MJR 06/21/24

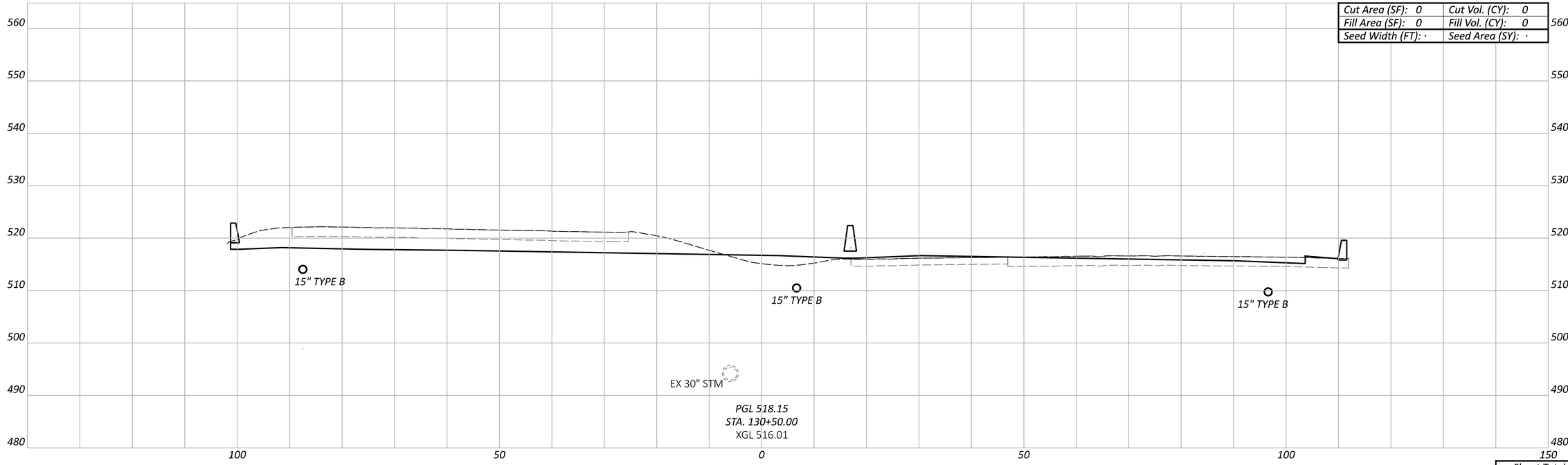
PROJECT ID
114161

SHEET P.85 | TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 130+50.00 TO STA 131+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

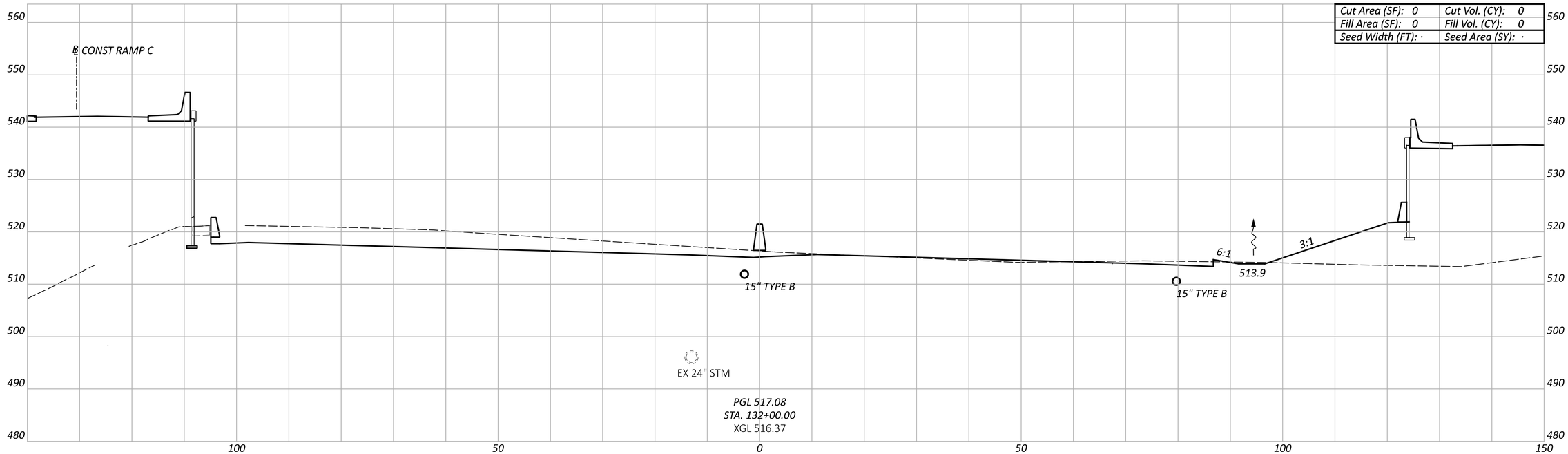
PROJECT ID
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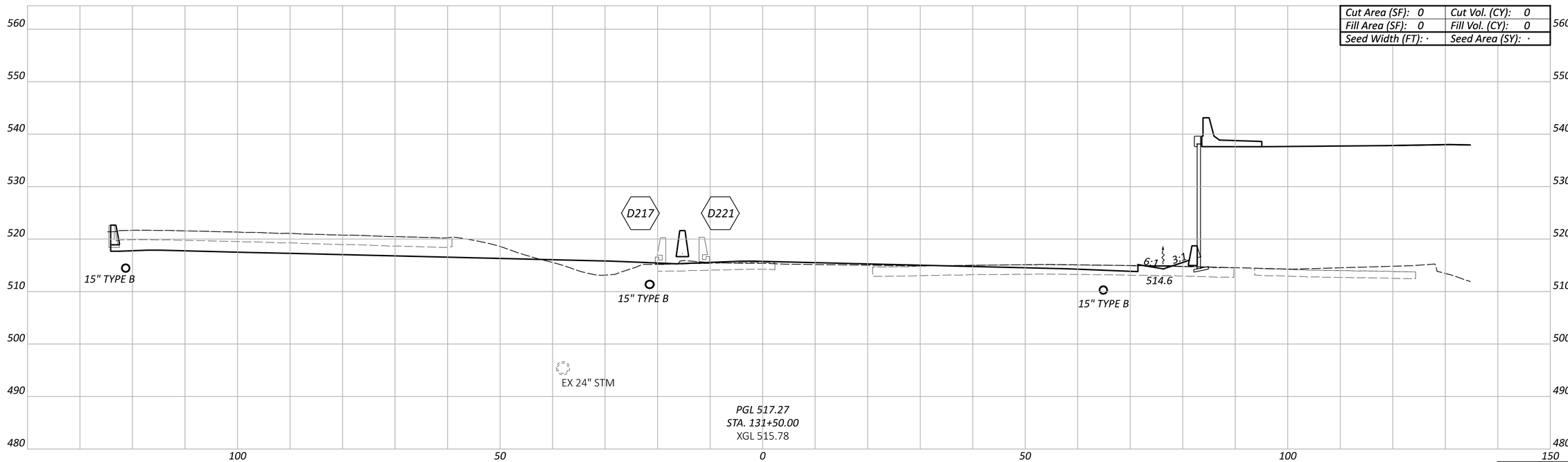
Sheet Totals		
Seeding	Cut	Fill
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SHEET P.86 TOTAL 463

HAM-75-1.95

MODEL: IR-75 XS - 130+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:02:18 PM USER: sbeal
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Sheet Totals

Seeding	Cut	Fill
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CROSS SECTIONS - IR 75
STA 131+50.00 TO STA 132+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

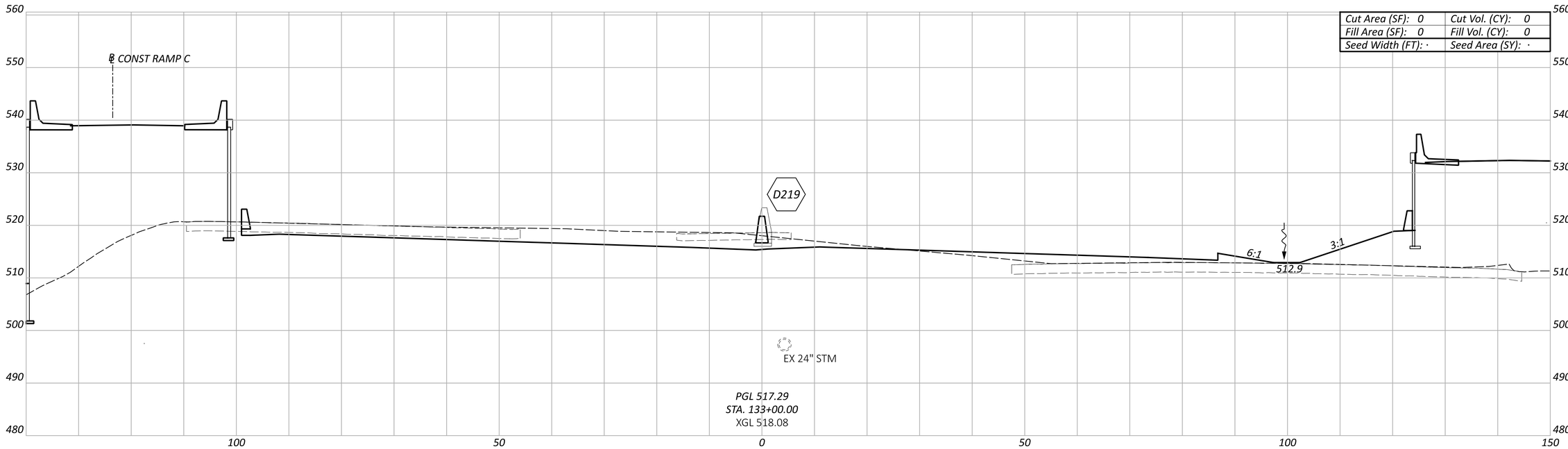
REVIEWER
MJR 06/21/24

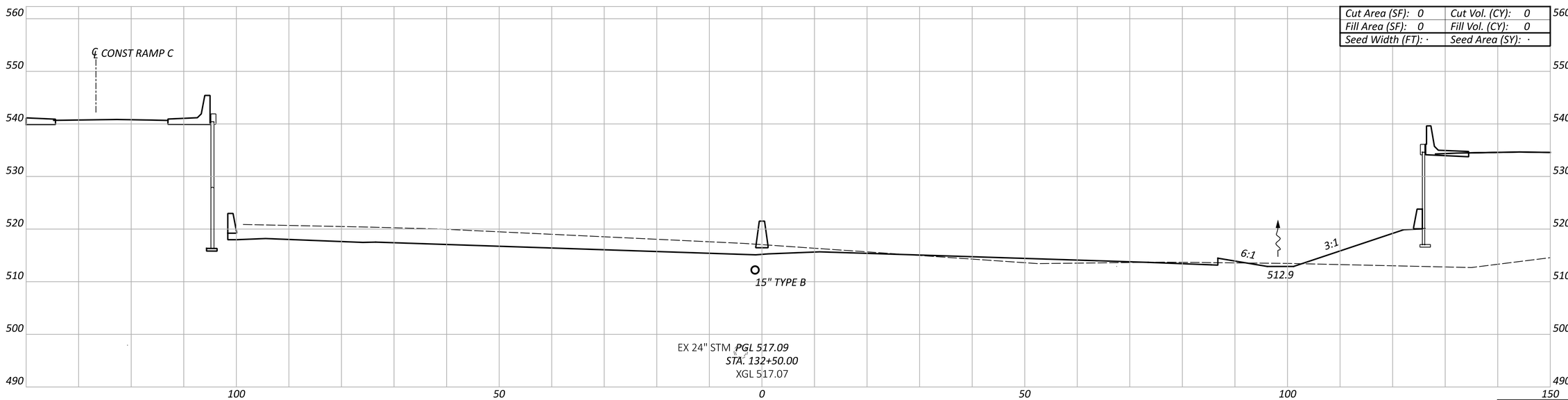
PROJECT ID
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SHEET P.87 TOTAL 463

HAM-75-1.95

MODEL: IR-75 XS - 131+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:02:28 PM USER: sbeal
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CROSS SECTIONS - IR 75
STA 132+50.00 TO STA 133+00.00

DESIGN AGENCY
EM H&T

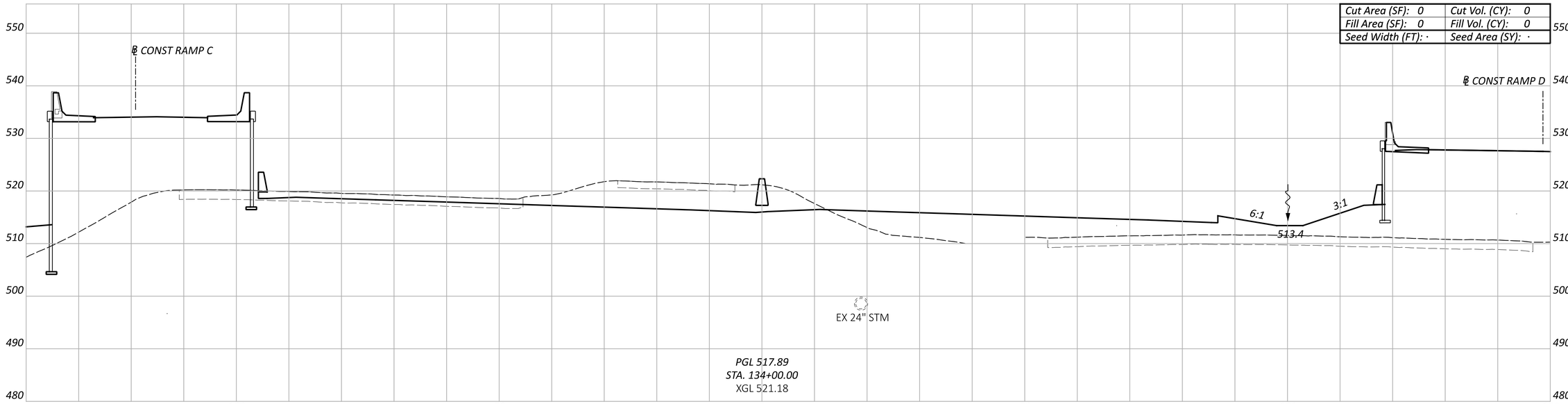
DESIGNER	
SJB	
REVIEWER	
MJR	06/21/24
PROJECT ID	
114161	

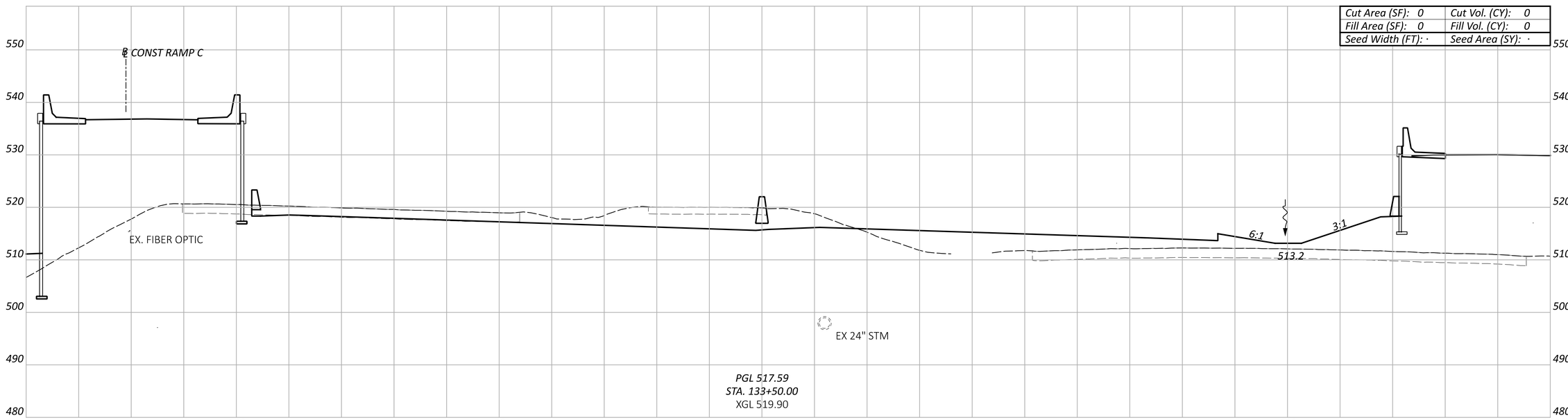
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SHEET	TOTAL
P.88	463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 133+50.00 TO STA 134+00.00

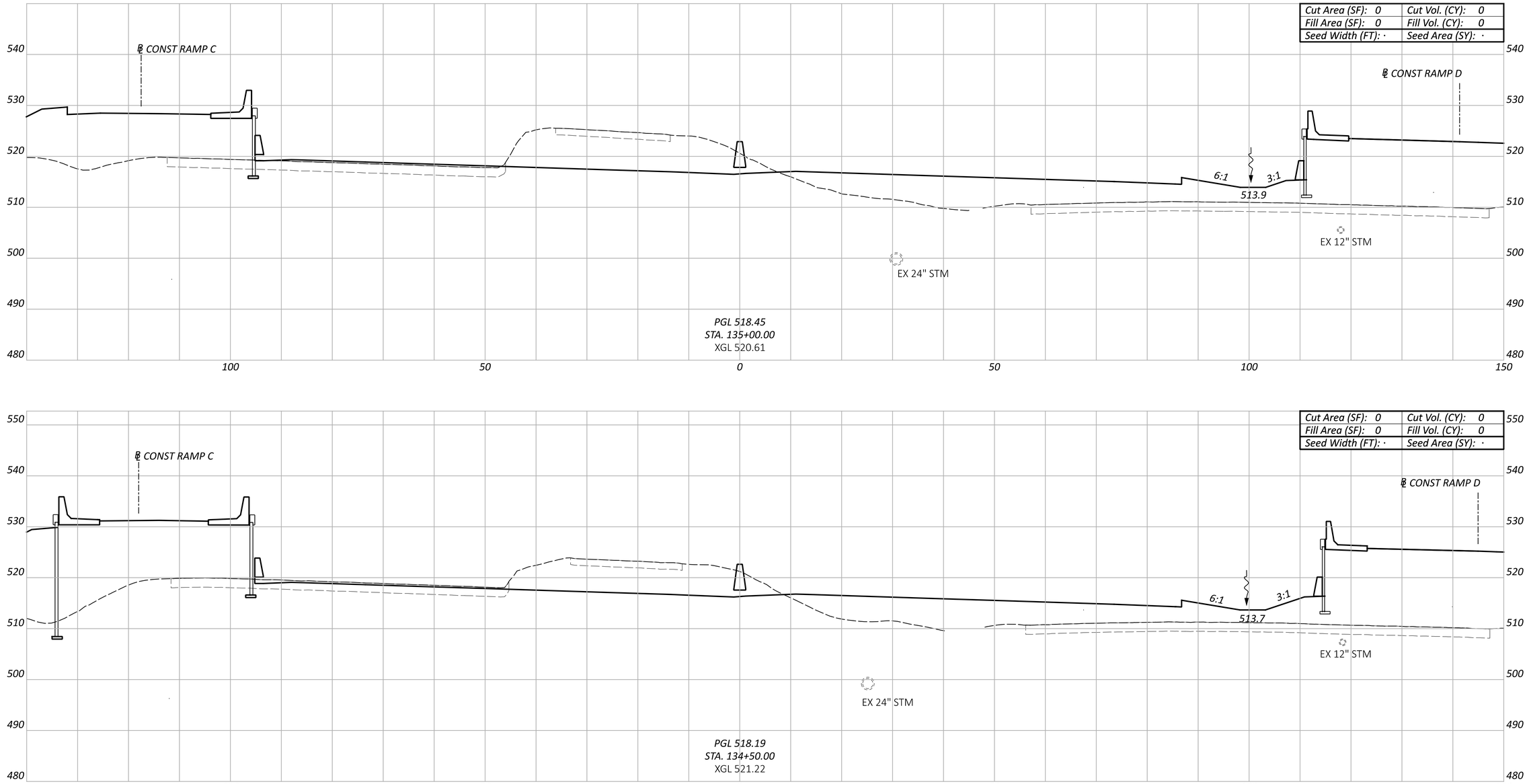
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Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.89
TOTAL	463



CROSS SECTIONS - IR 75
STA 134+50.00 TO STA 135+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

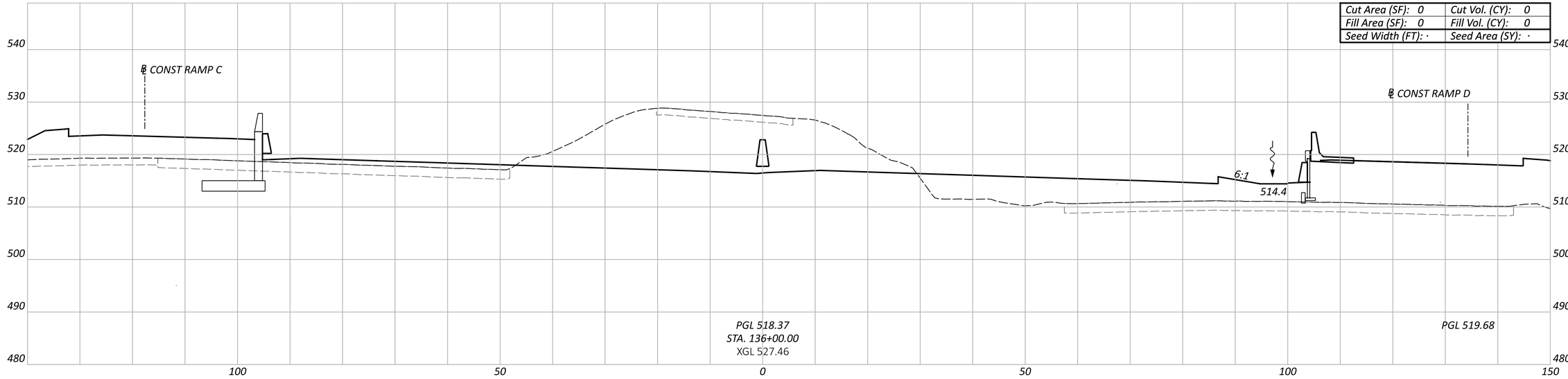
PROJECT ID
114161

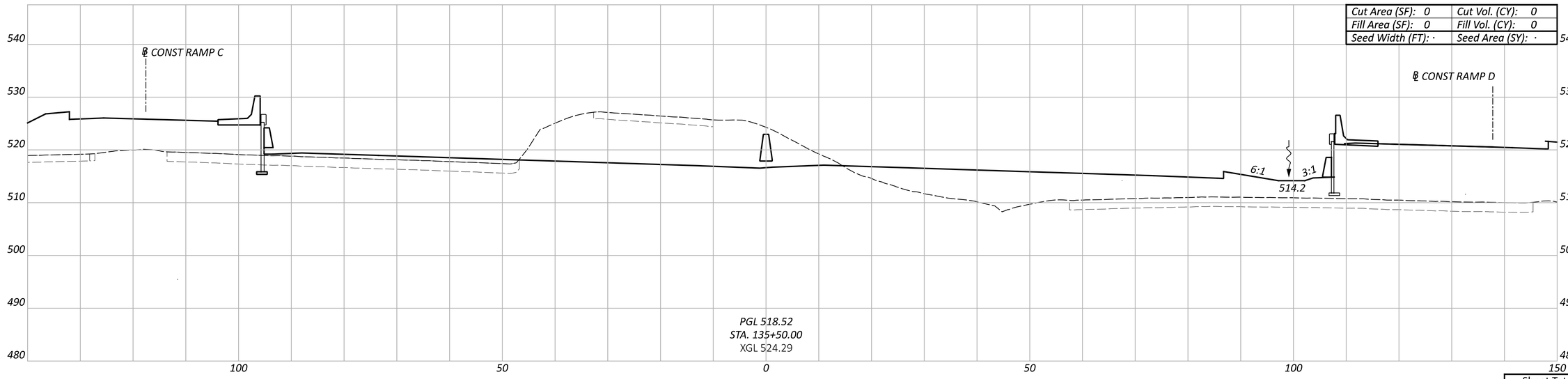
SHEET P.90 | TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 135+50.00 TO STA 136+00.00





Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

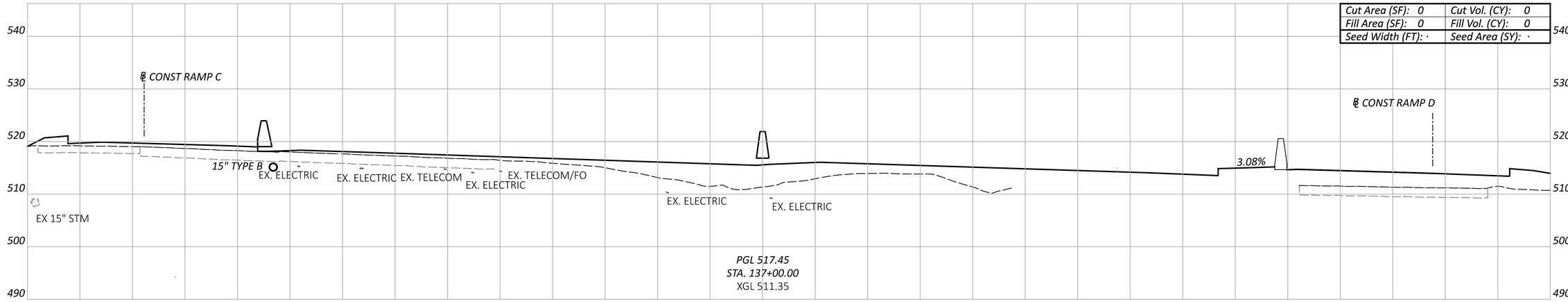
REVIEWER
MJR 06/21/24

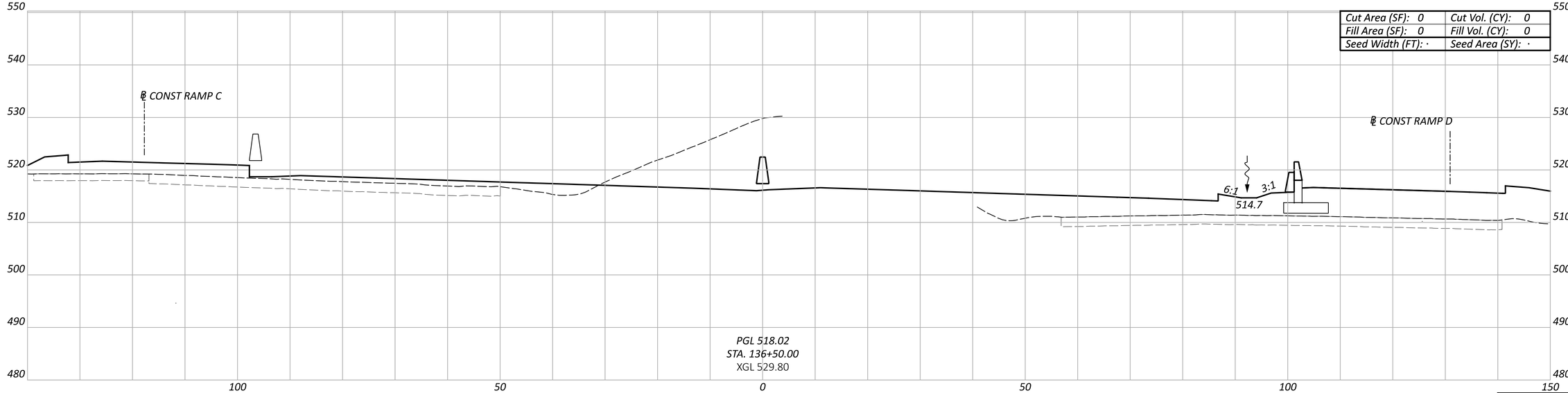
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SHEET P.91 | TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 136+50.00 TO STA 137+00.00.

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

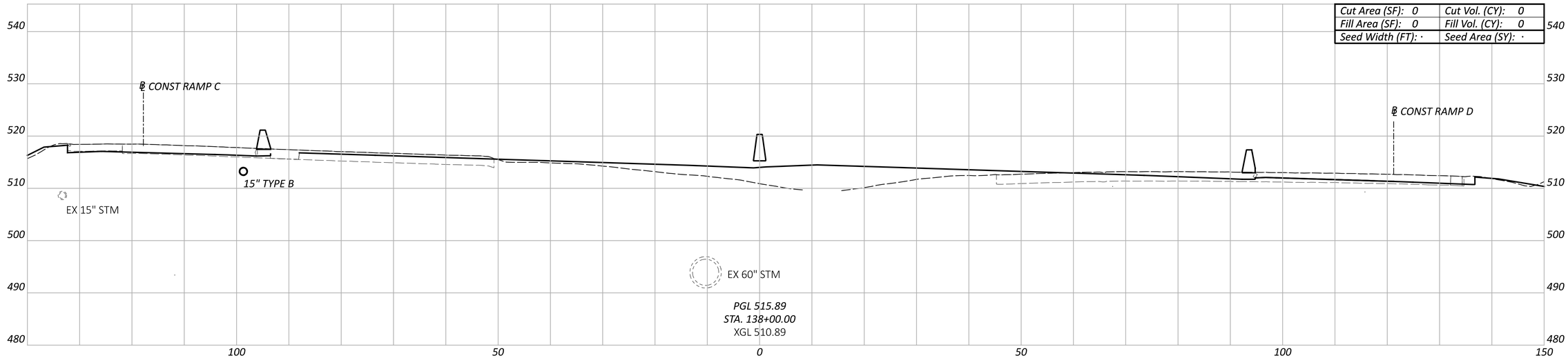
PROJECT ID
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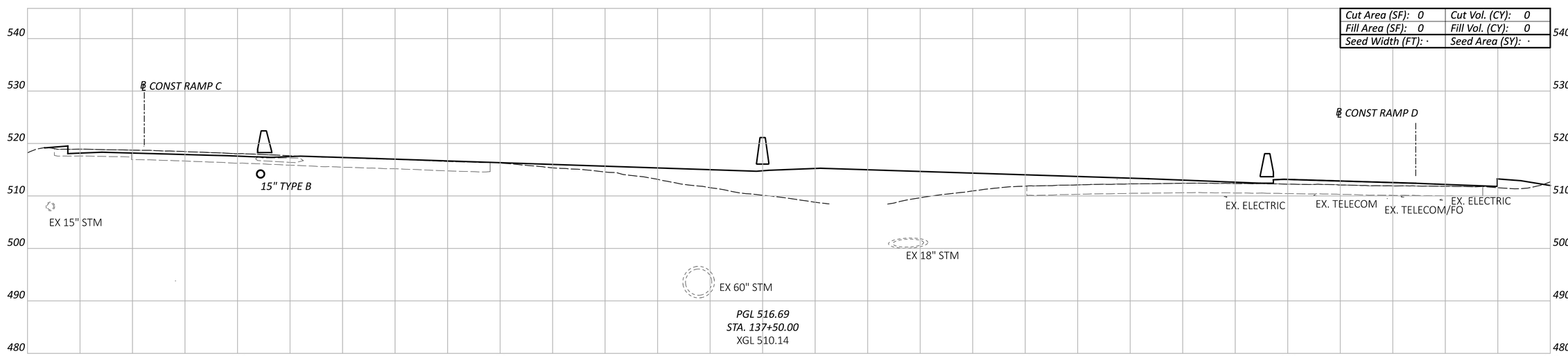
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SHEET P.92 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 137+50.00 TO STA 138+00.00.

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

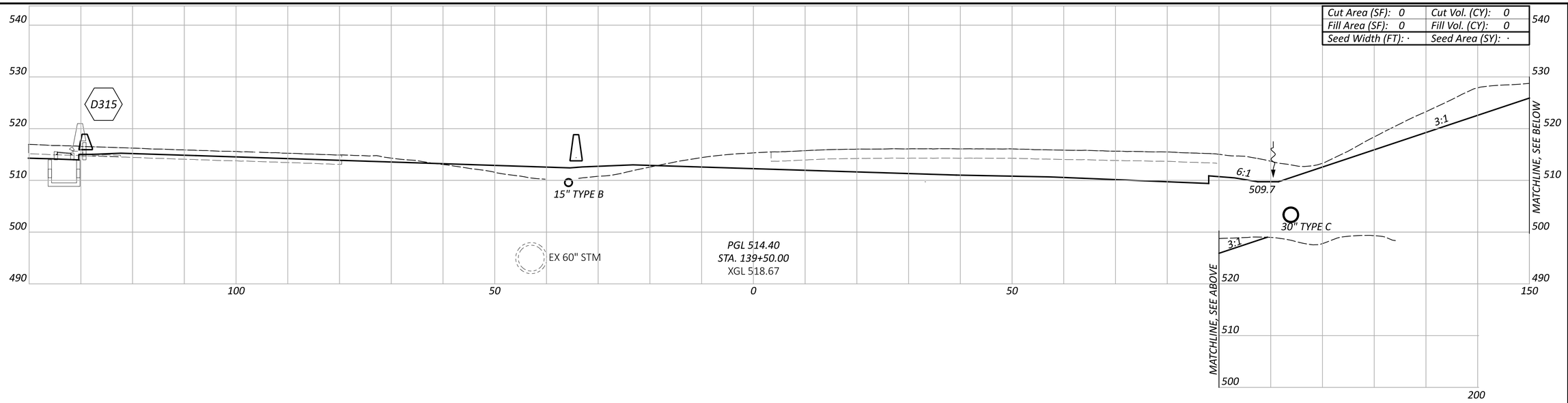
REVIEWER
MJR 06/21/24

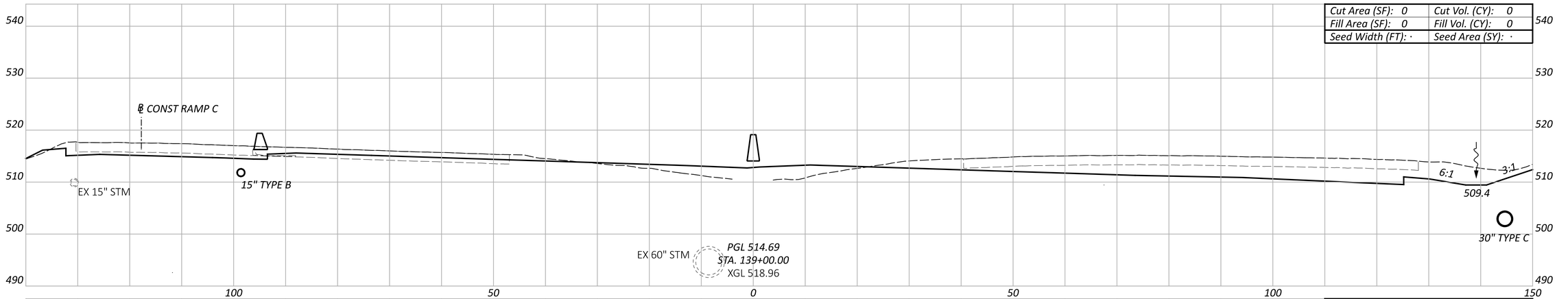
PROJECT ID
114161

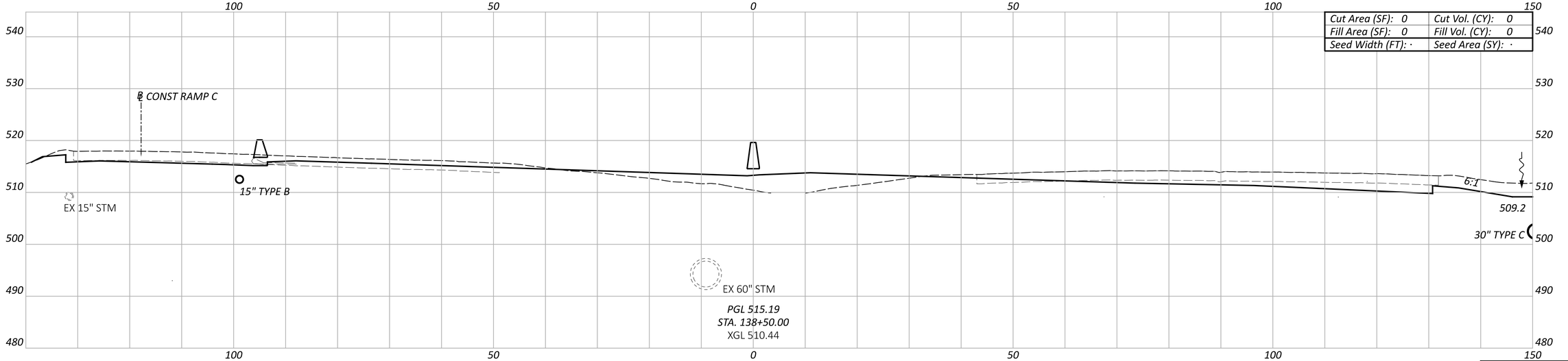
SHEET P.93 | TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 138+50.00 TO STA 139+50.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

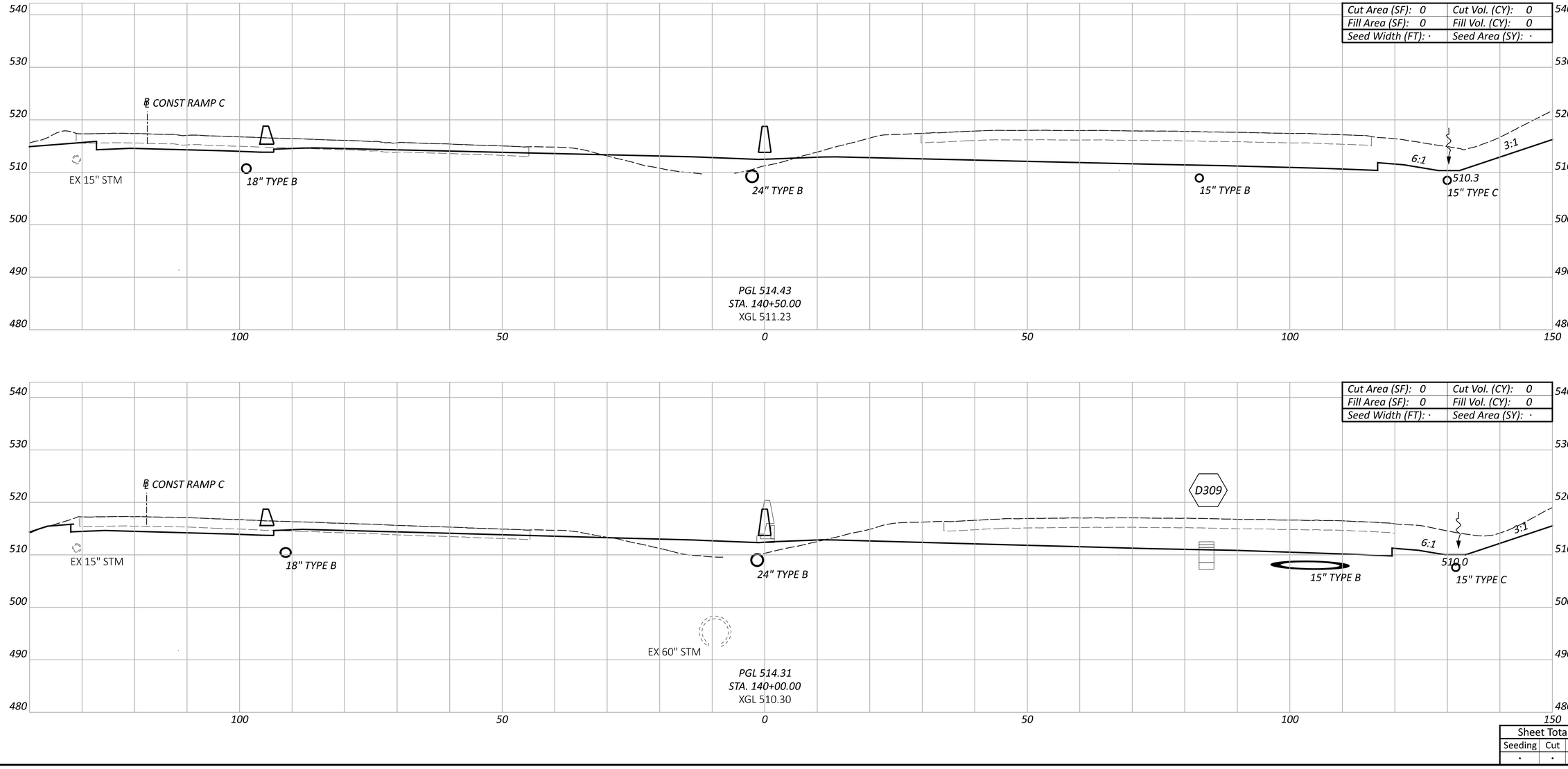
PROJECT ID
114161

Sheet Totals		
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SHEET	TOTAL
P.94	463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 140+00.00 TO STA 140+50.00

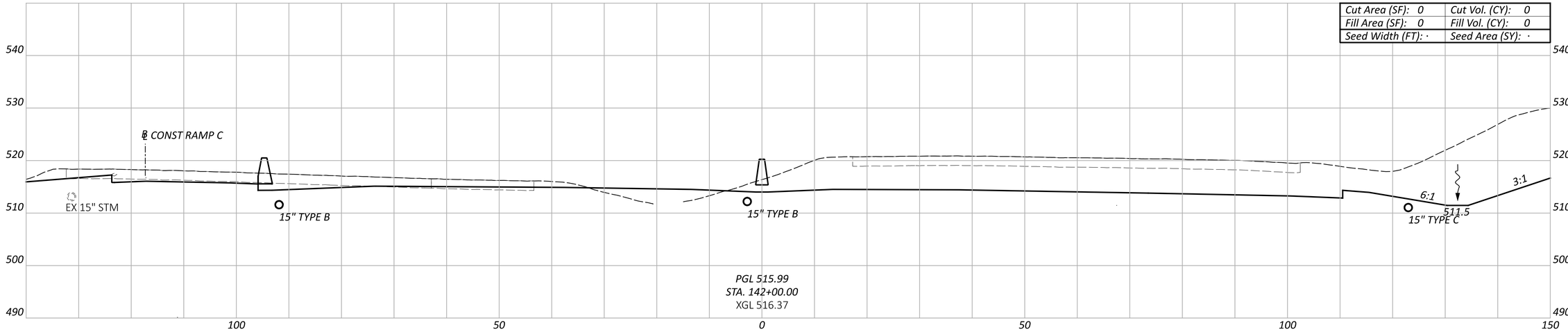
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Seeding	Cut	Fill
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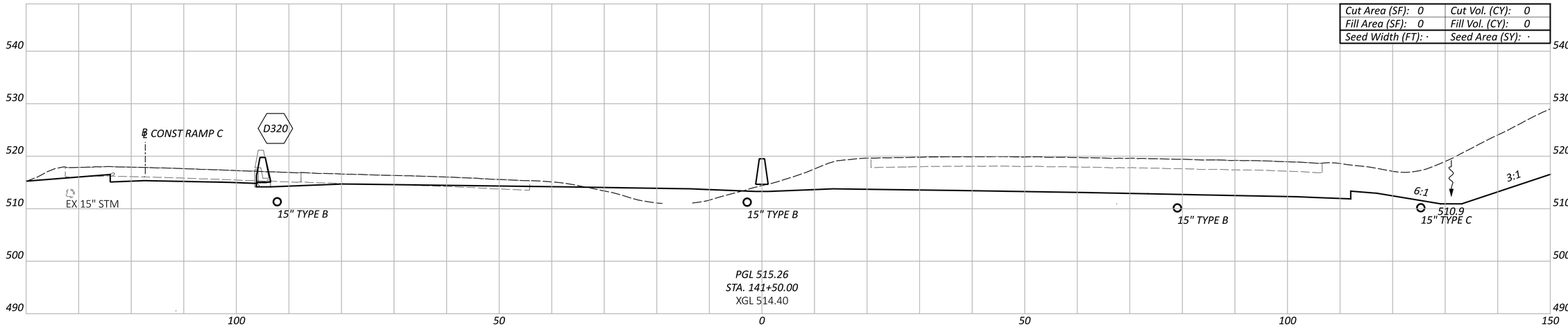
DESIGN AGENCY
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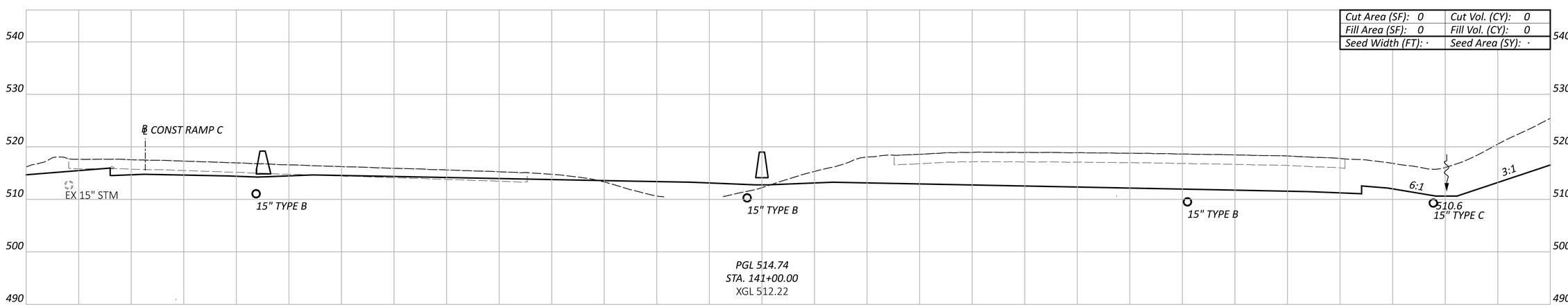
DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.95
TOTAL	463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 141+00.00 TO STA 142+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

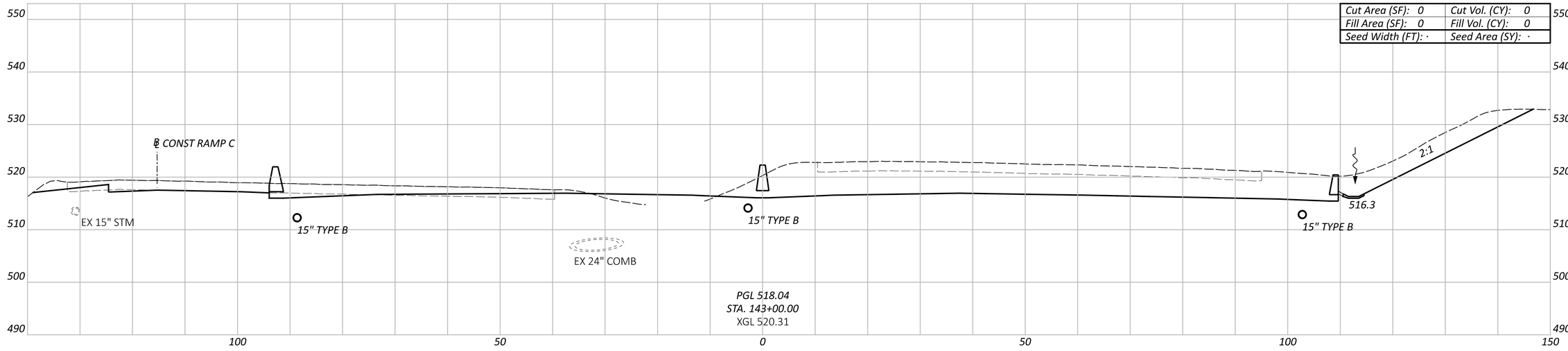
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MJR 06/21/24

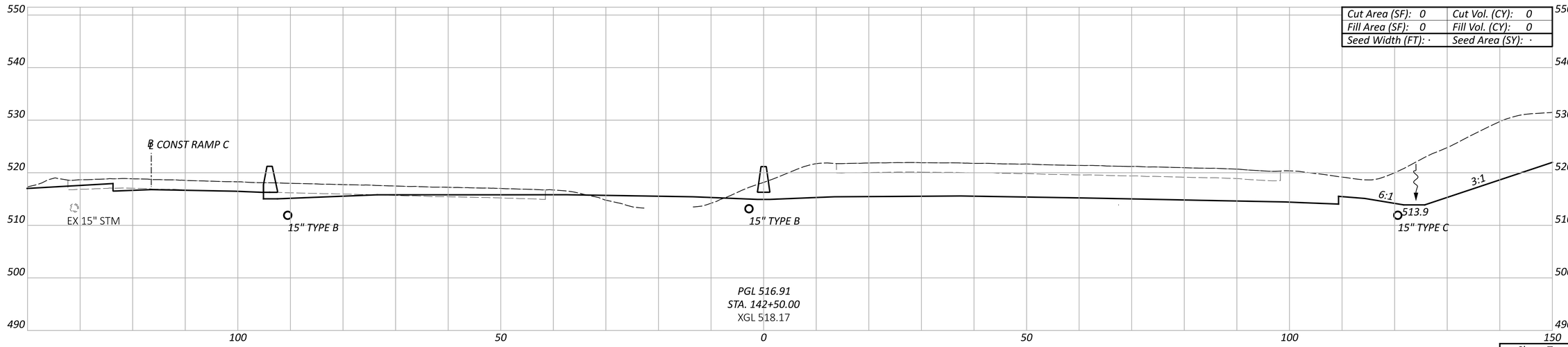
PROJECT ID
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SHEET P.96 | TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 142+50.00 TO STA 143+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

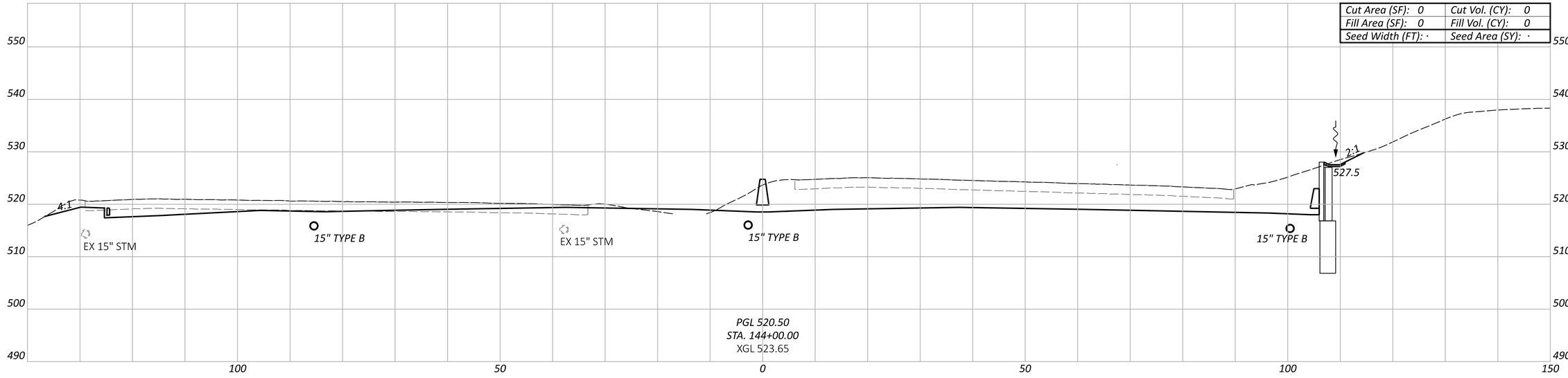
REVIEWER
MJR 06/21/24

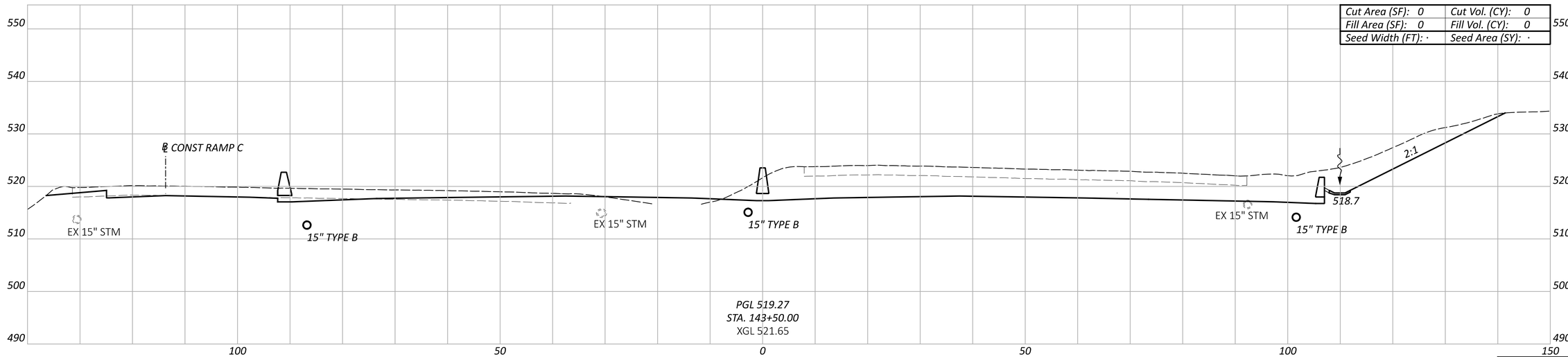
PROJECT ID
114161

SHEET P.97 | TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 143+50.00 TO STA 144+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

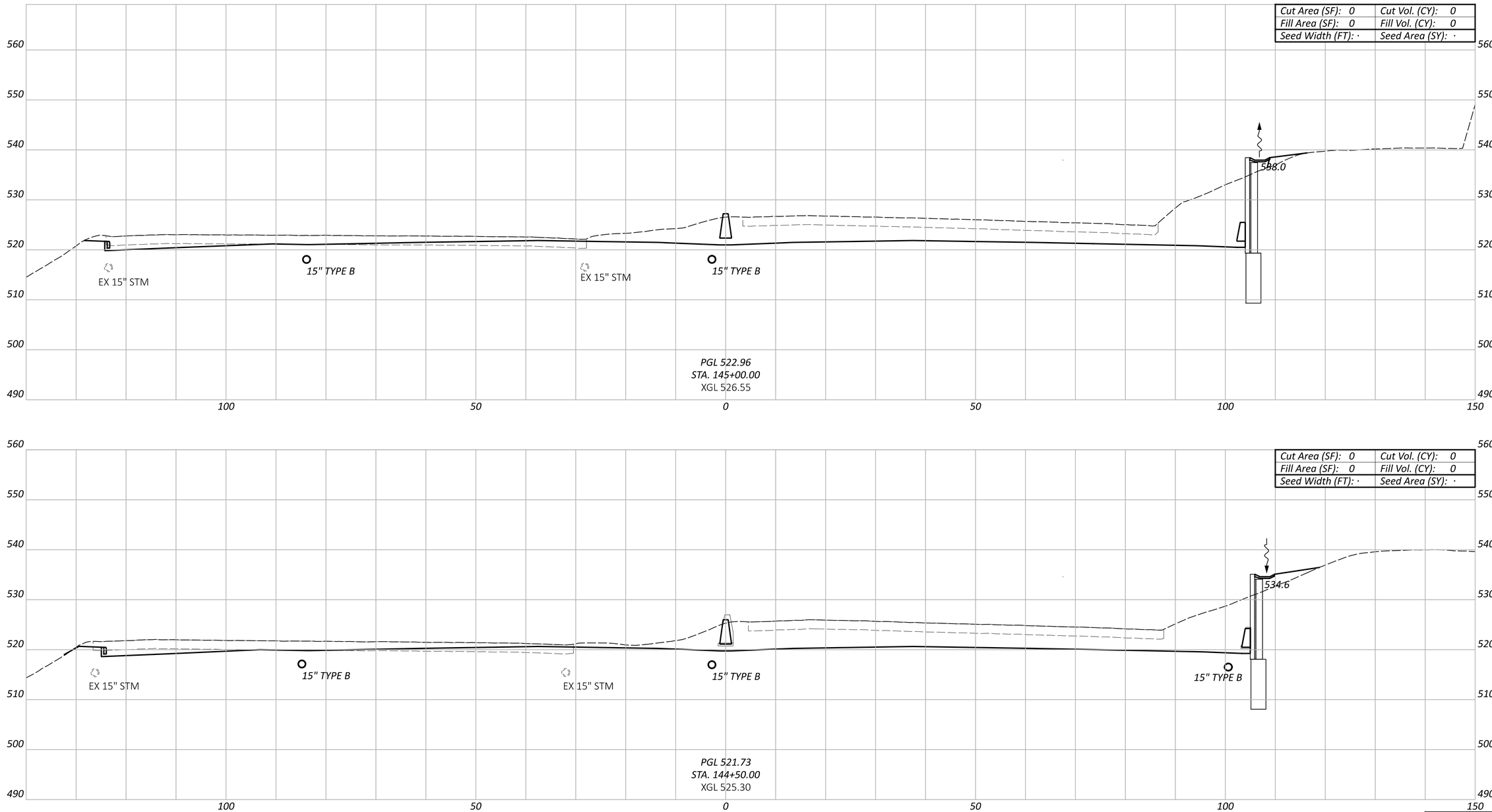
REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.98 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 144+50.00 TO STA 145+00.00

DESIGN AGENCY
EMH&T

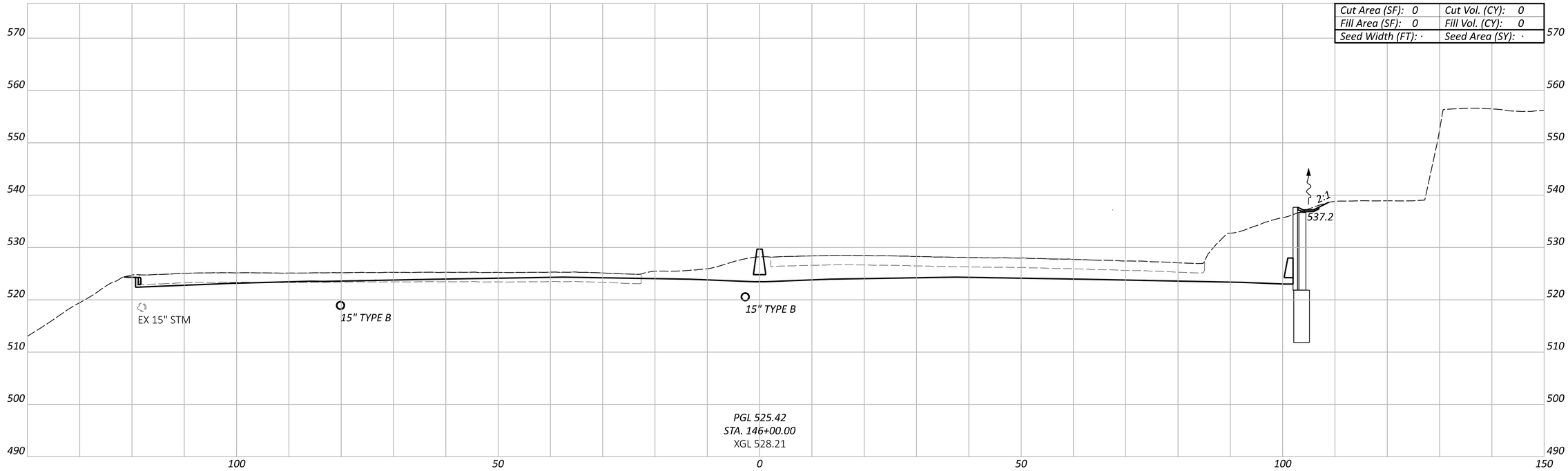
DESIGNER	
SJB	
REVIEWER	
MJR	06/21/24
PROJECT ID	
114161	

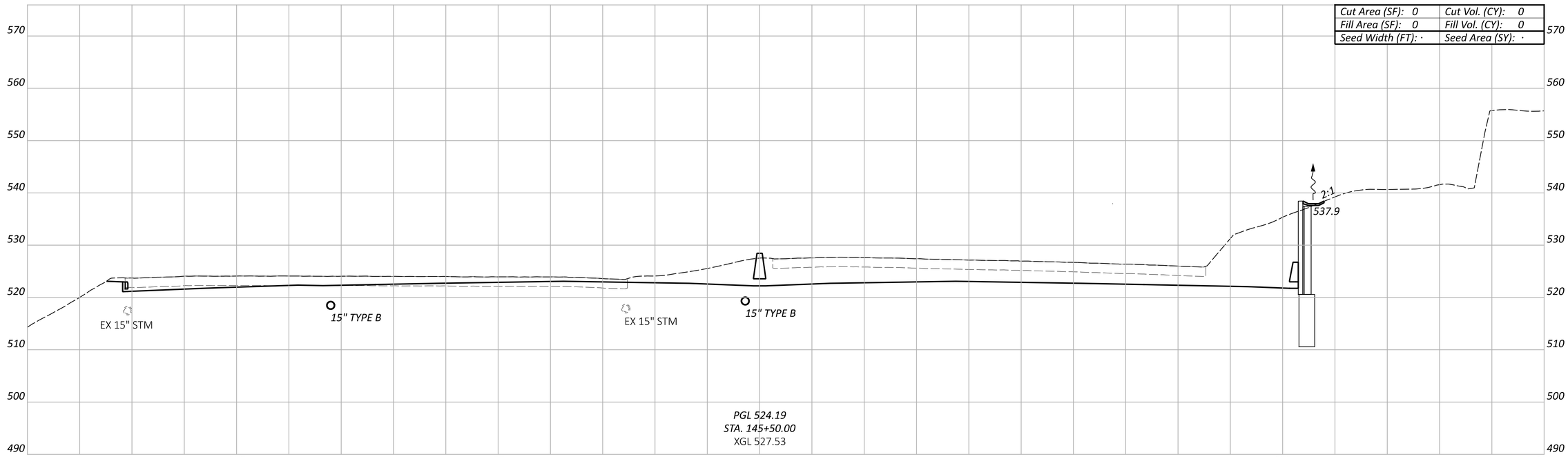
Sheet Totals		
Seeding	Cut	Fill
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SHEET	TOTAL
P.99	463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 145+50.00 TO STA 146+00.00

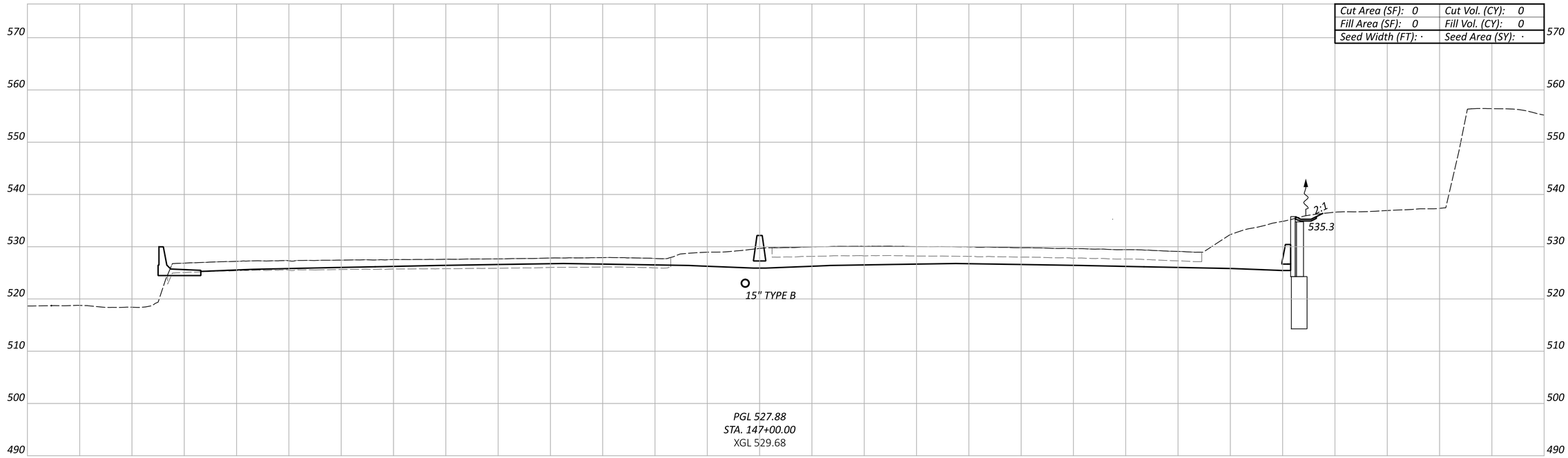
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Seeding	Cut	Fill
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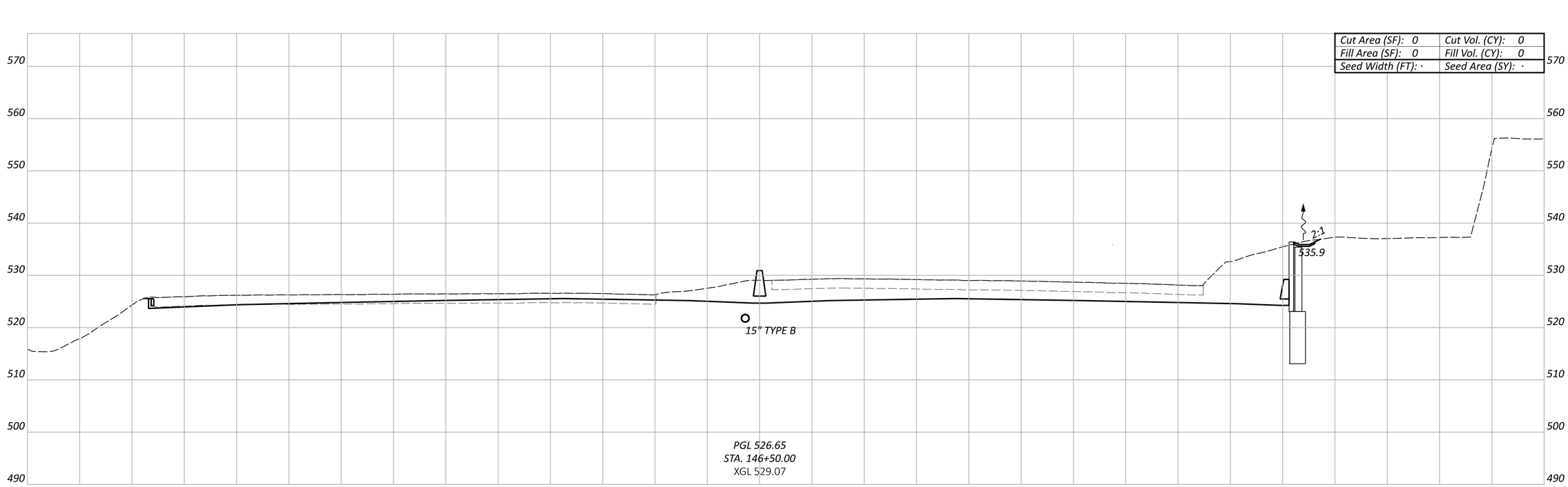
DESIGN AGENCY
EMH&T

DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.100
TOTAL	463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 146+50.00 TO STA 147+00.00

HAM-75-1.95

MODEL: IR-75 XS - 146+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:05:27 PM USER: sbeal
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Sheet Totals		
Seeding	Cut	Fill
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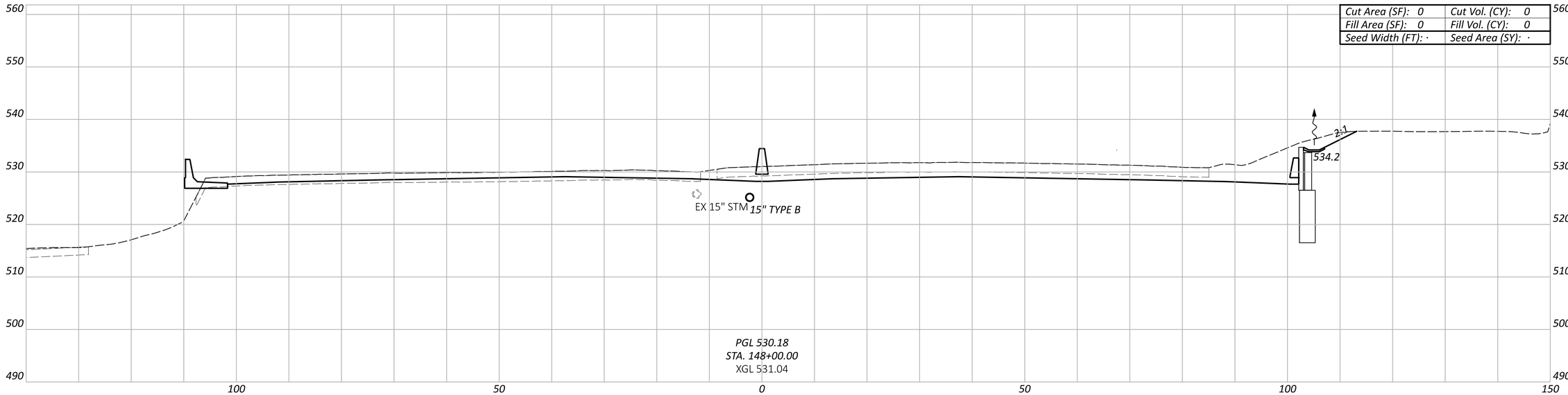
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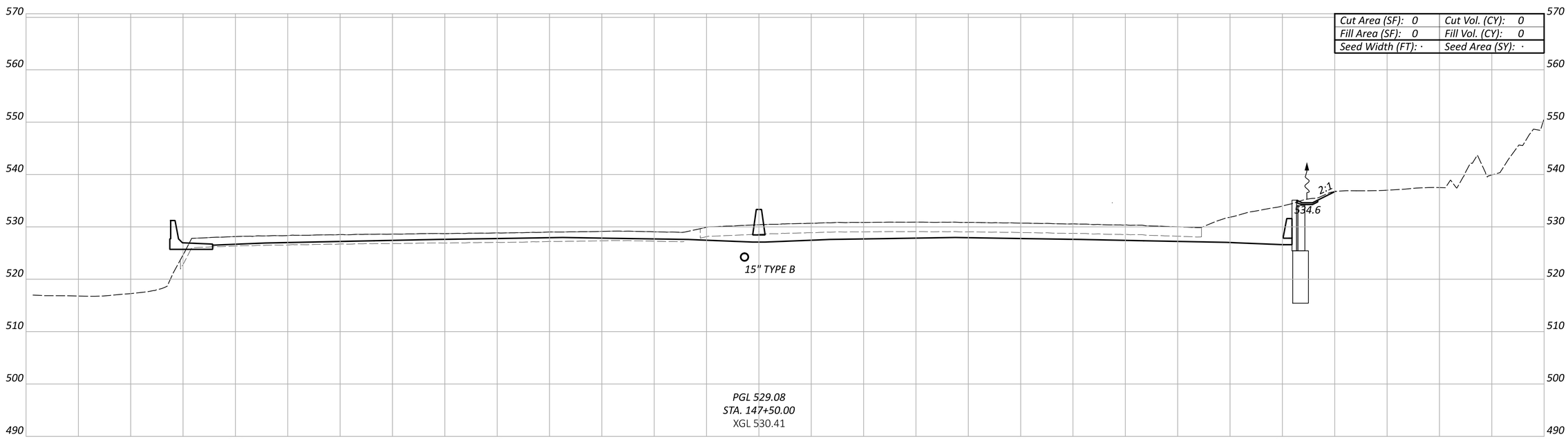
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET	TOTAL
P.101	463





CROSS SECTIONS - IR 75
STA 147+50.00 TO STA 148+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

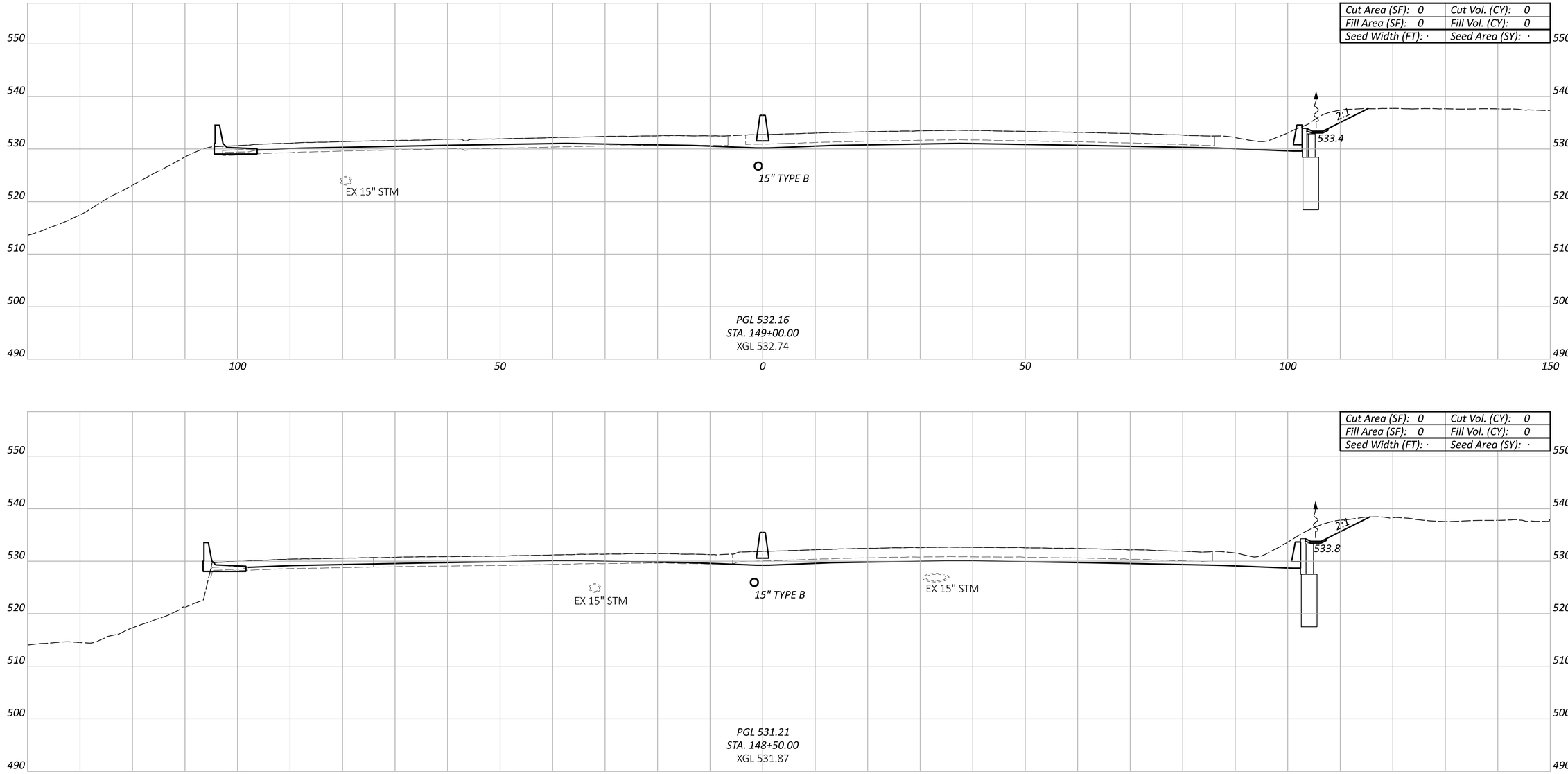
REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.102 | TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 148+50.00 TO STA 149+00.00

HAM-75-1.95

MODEL: IR-75 XS - 148+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:05:48 PM USER: sbeal
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Sheet Totals		
Seeding	Cut	Fill
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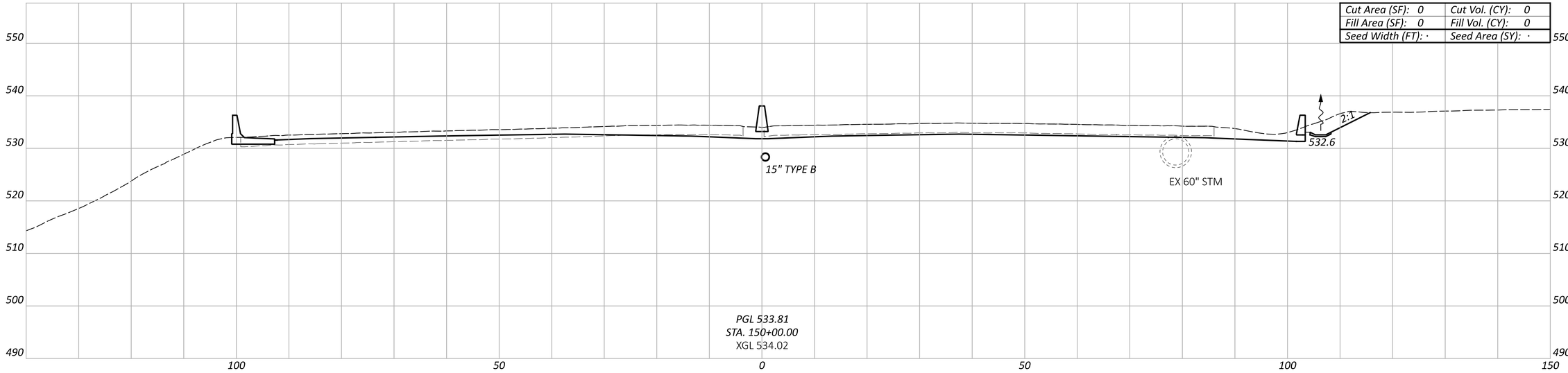
DESIGN AGENCY
EMH&T

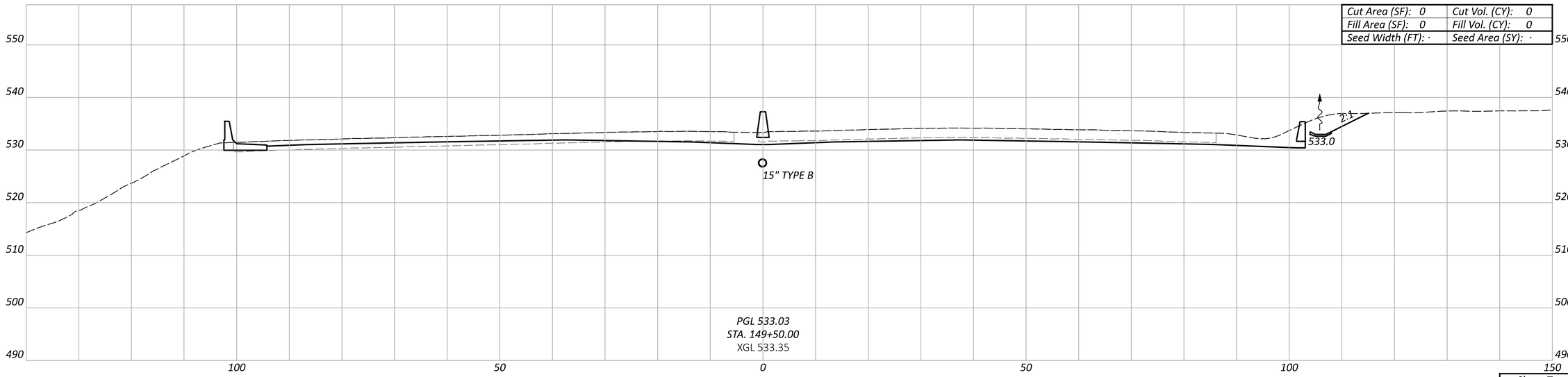
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.103 TOTAL 463





CROSS SECTIONS - IR 75
STA 149+50.00 TO STA 150+00.00

HAM-75-1.95

MODEL: IR-75 XS - 149+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:05:59 PM USER: sbeal
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Sheet Totals		
Seeding	Cut	Fill
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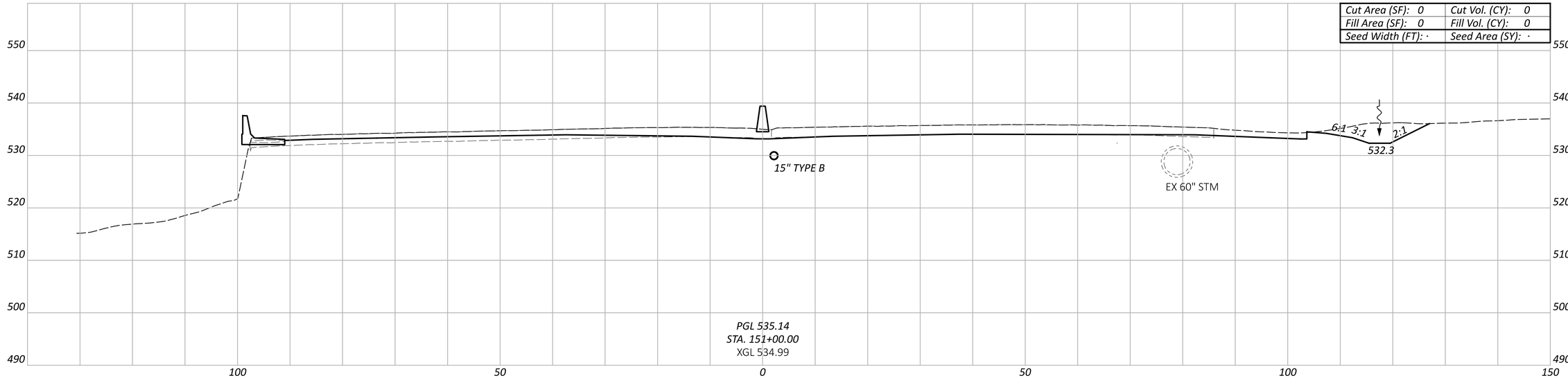
DESIGN AGENCY
EMH&T

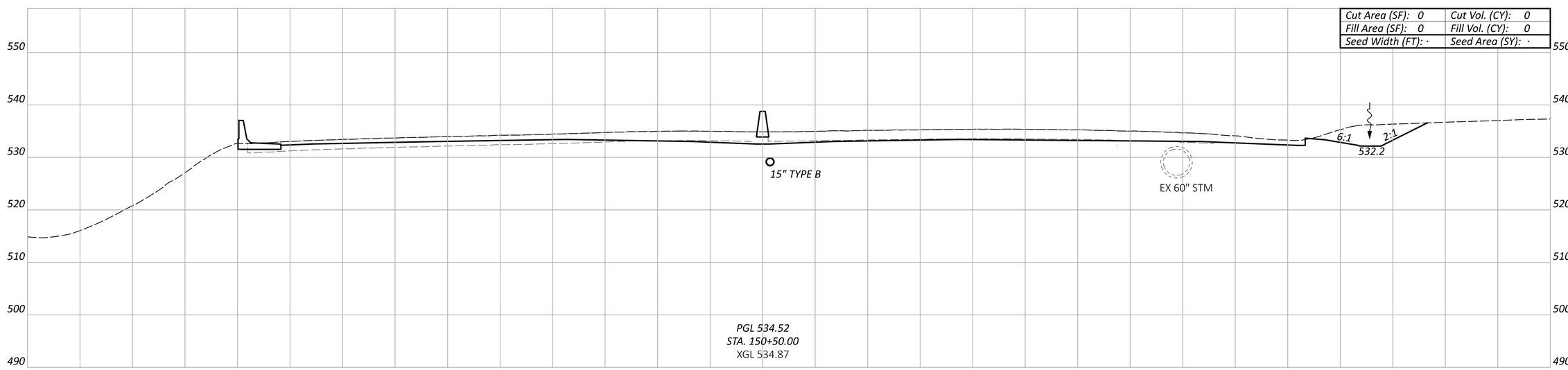
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.104 TOTAL 463





CROSS SECTIONS - IR 75
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Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

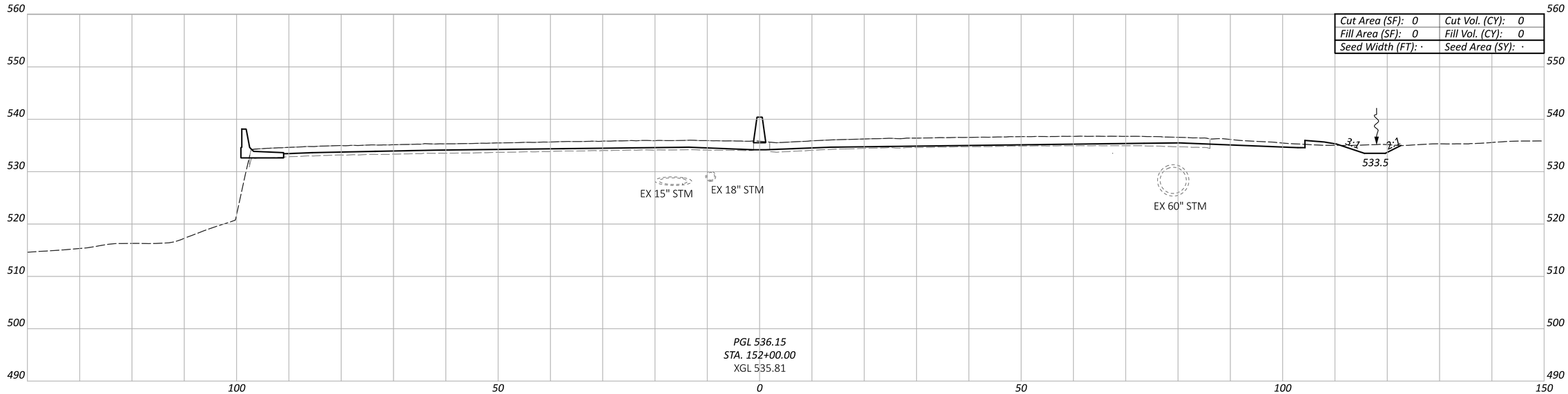
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MJR 06/21/24

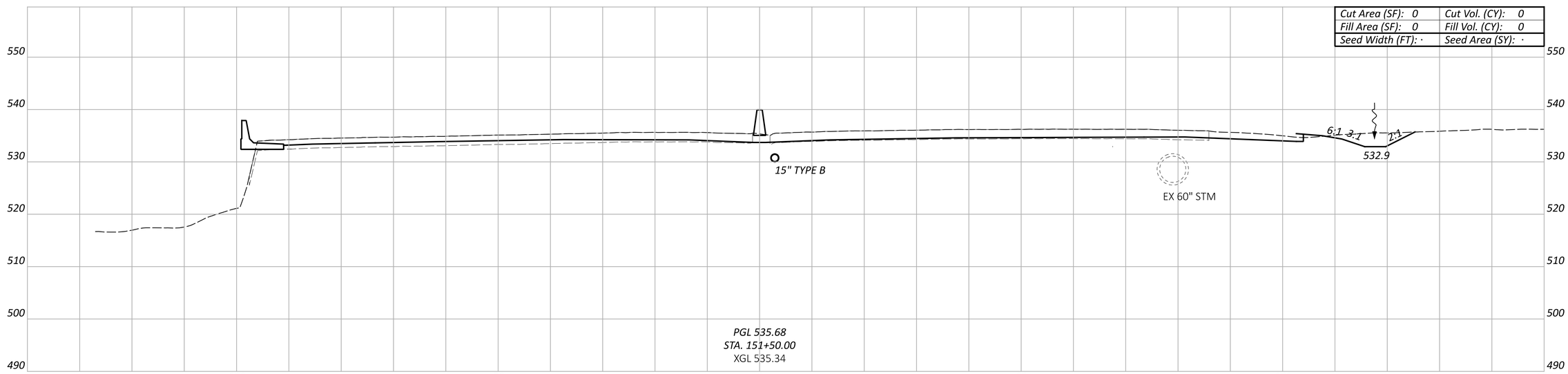
PROJECT ID
114161

SHEET P.105 | TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 151+50.00 TO STA 152+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
E M H&T

DESIGNER
SJB

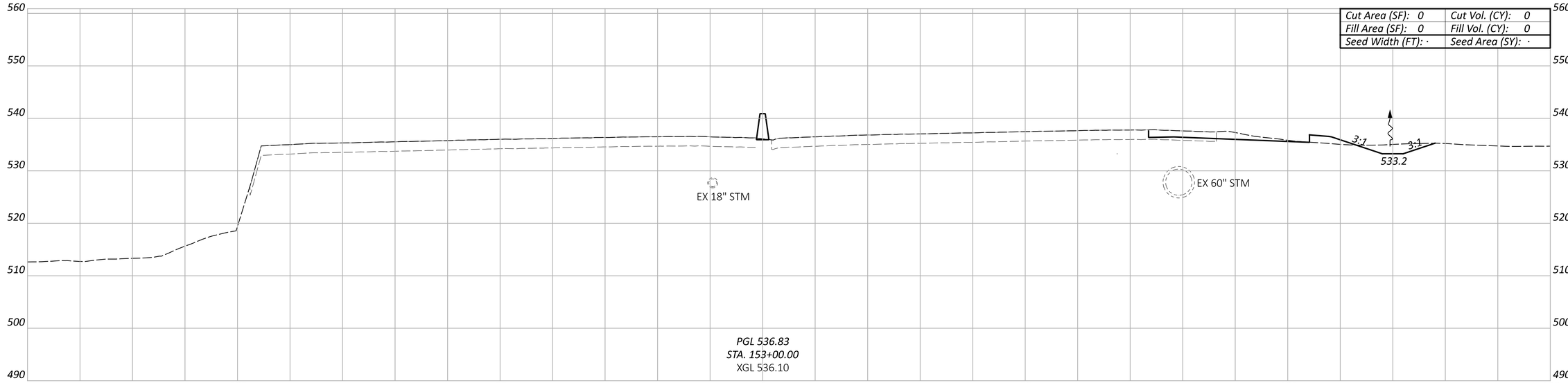
REVIEWER
MJR 06/21/24

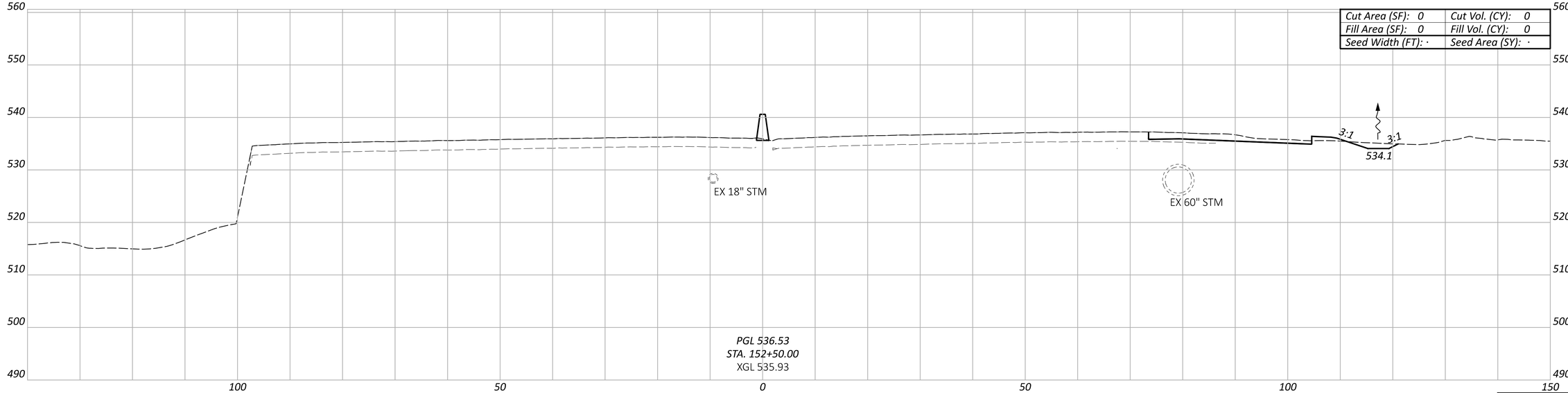
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SHEET P.106 TOTAL 463

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CROSS SECTIONS - IR 75
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Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EM|H&T

DESIGNER
SJB

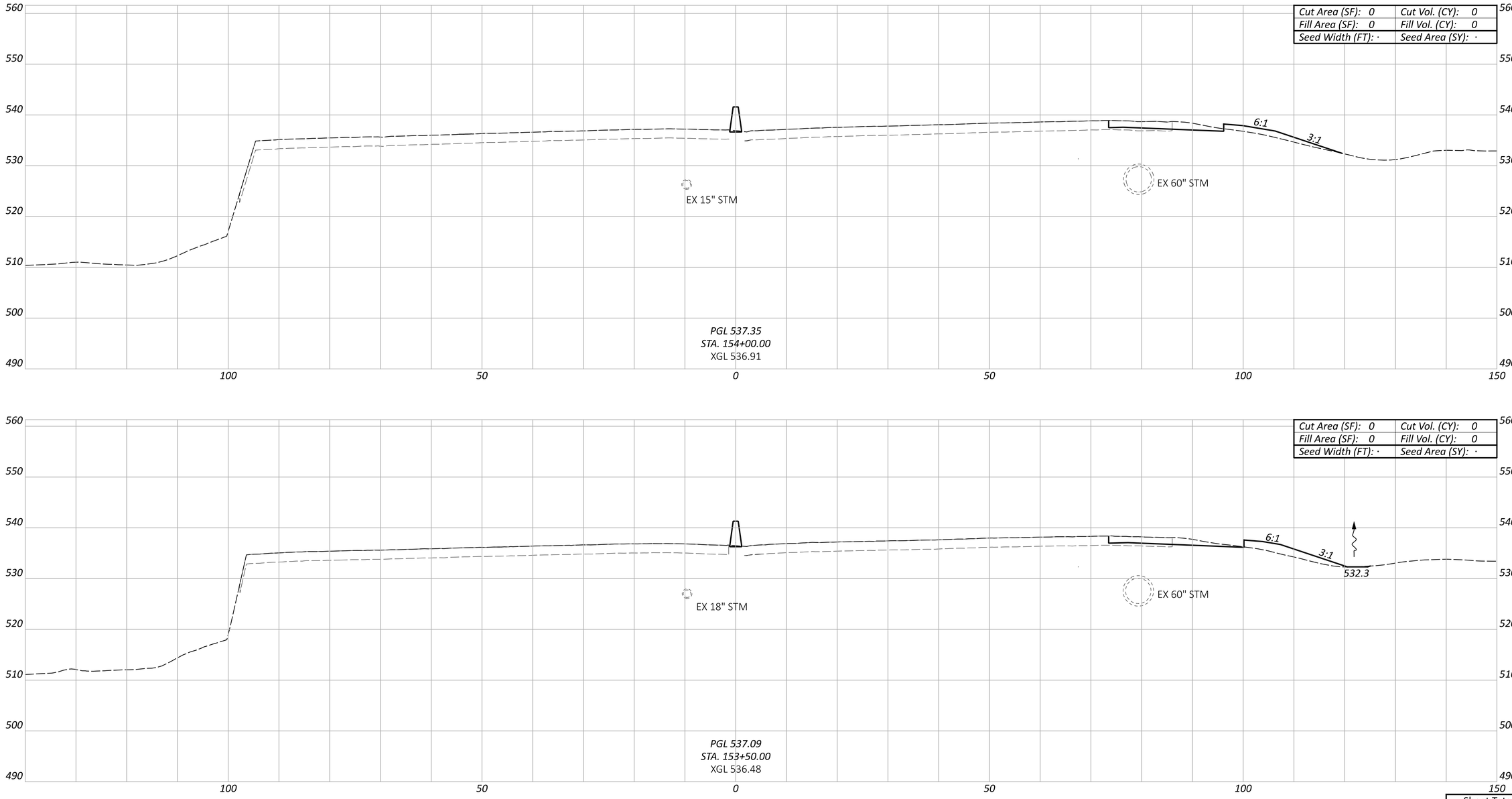
REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.107 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - IR 75
STA 153+50.00 TO STA 154+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMHT

DESIGNER
SJB

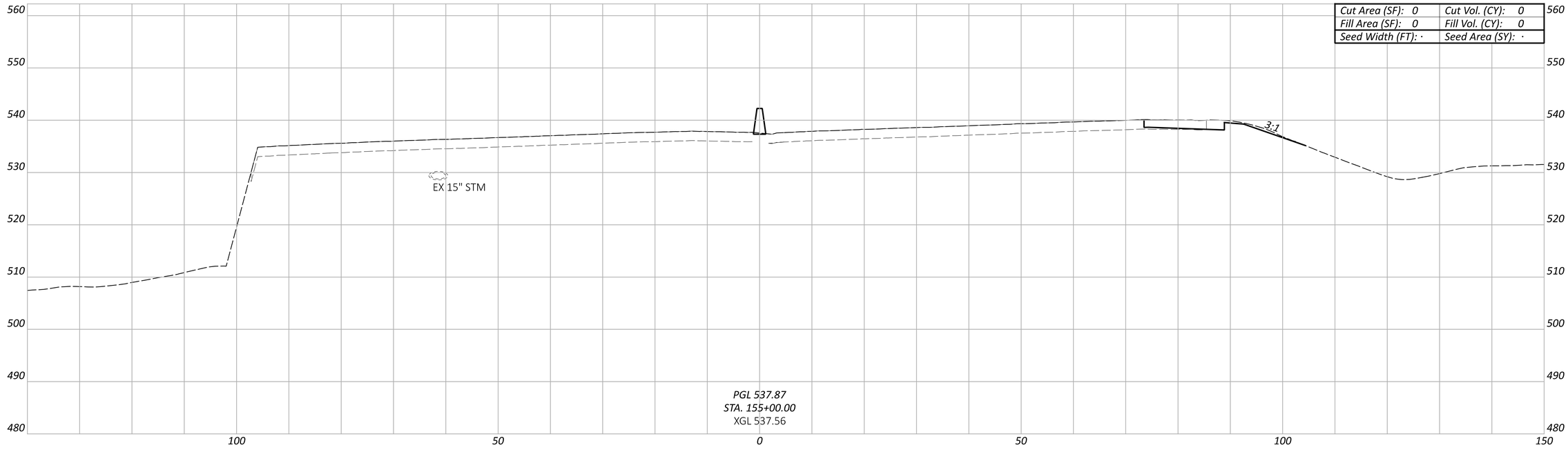
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MJR 06/21/24

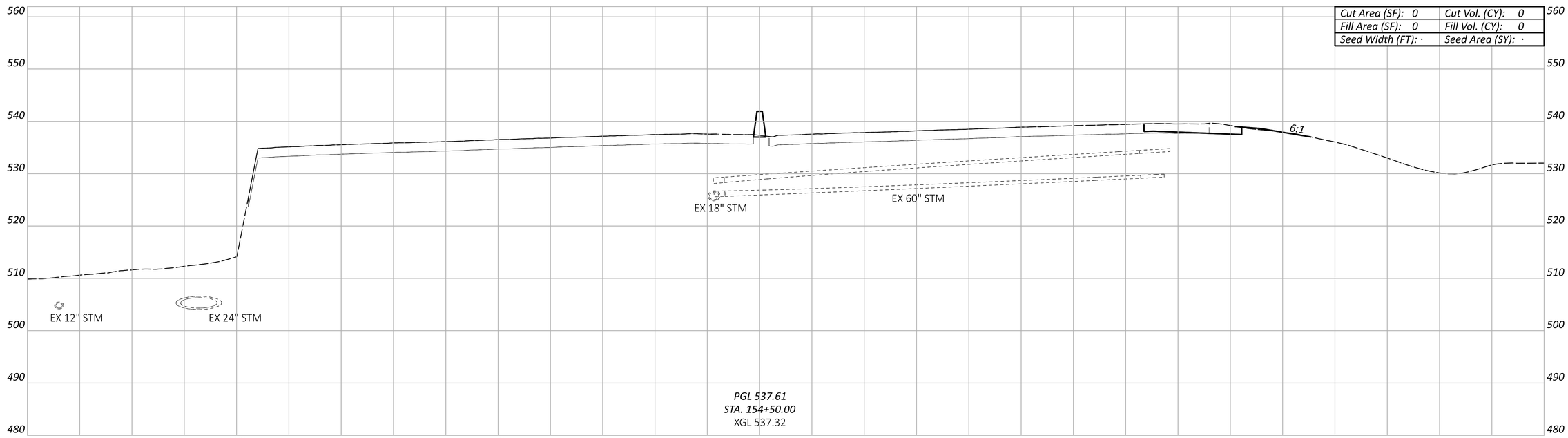
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SHEET P.108 TOTAL 463

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CROSS SECTIONS - IR 75
STA 154+50.00 TO STA 155+00.00

HAM-75-1.95

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Sheet Totals		
Seeding	Cut	Fill
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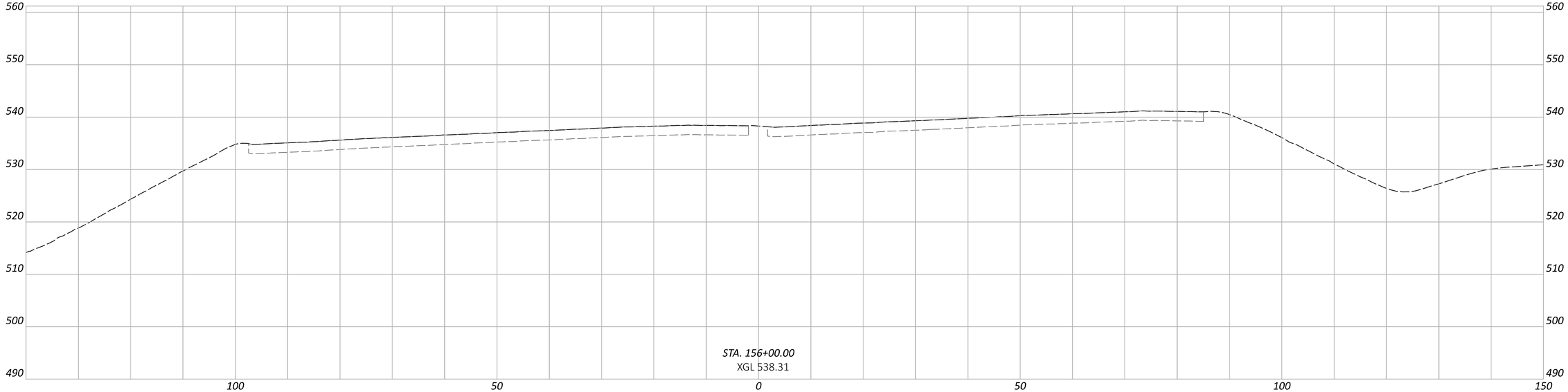
DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.109 TOTAL 463



CROSS SECTIONS - IR 75
STA 155+50.00 TO STA 156+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY

EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.#10 | TOTAL 463

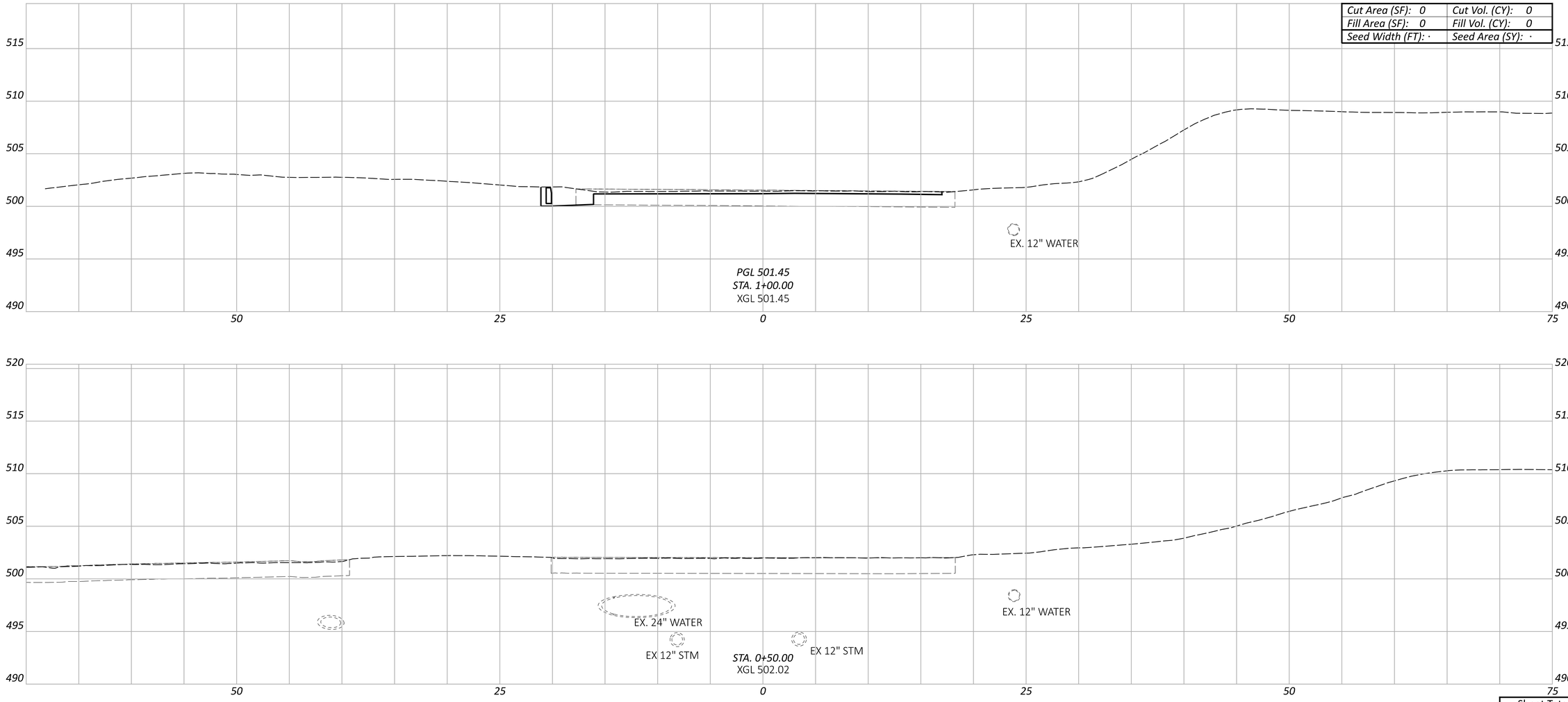
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HAM-75-1.95

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
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CROSS SECTIONS - WINCHELL AVE
STA 0+50.00 TO STA 1+00.00

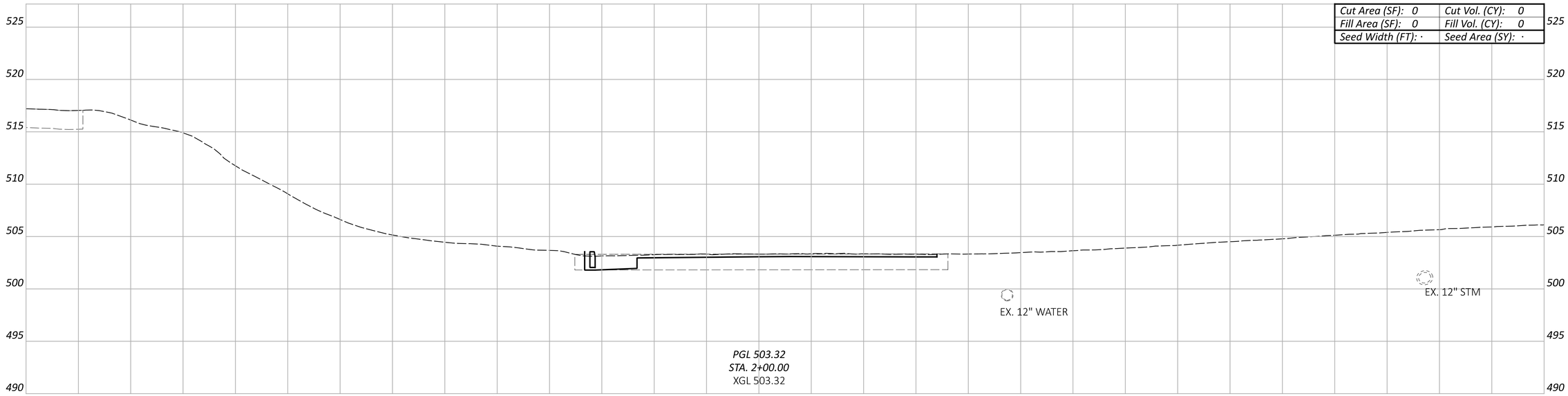
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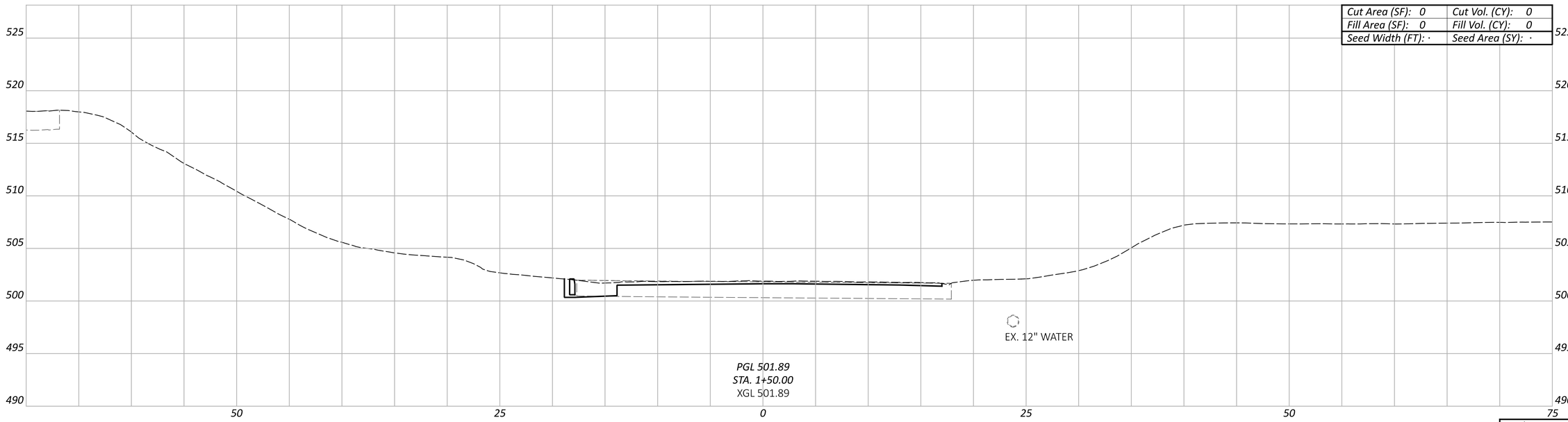
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET	TOTAL
P.111	463





CROSS SECTIONS - WINCHELL AVE
STA 1+50.00 TO STA 2+00.00

HAM-75-1.95

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DESIGN AGENCY
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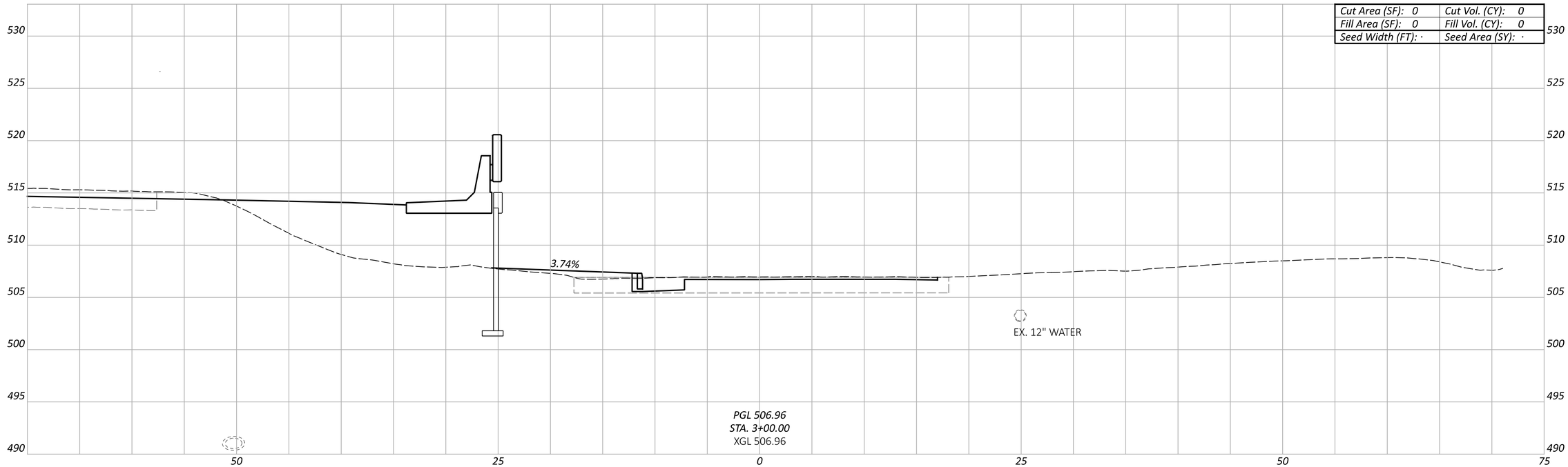
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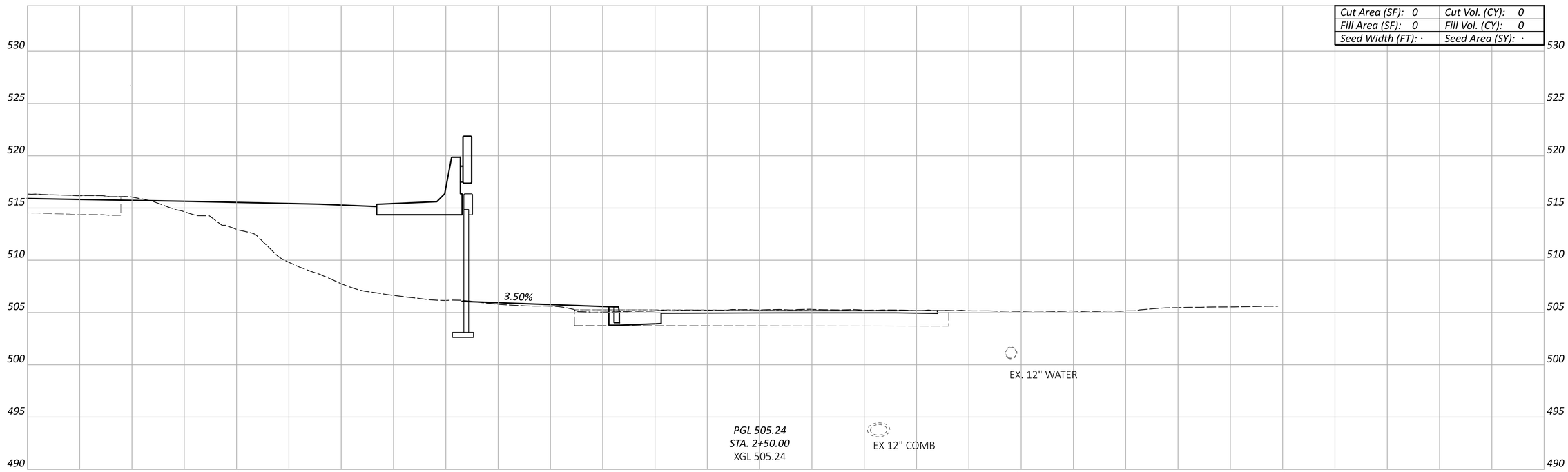
REVIEWER
MJR 06/21/24

PROJECT ID
114161

Sheet Totals		
Seeding	Cut	Fill
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SHEET	TOTAL
P.112	463





CROSS SECTIONS - WINCHELL AVE
STA 2+50.00 TO STA 3+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

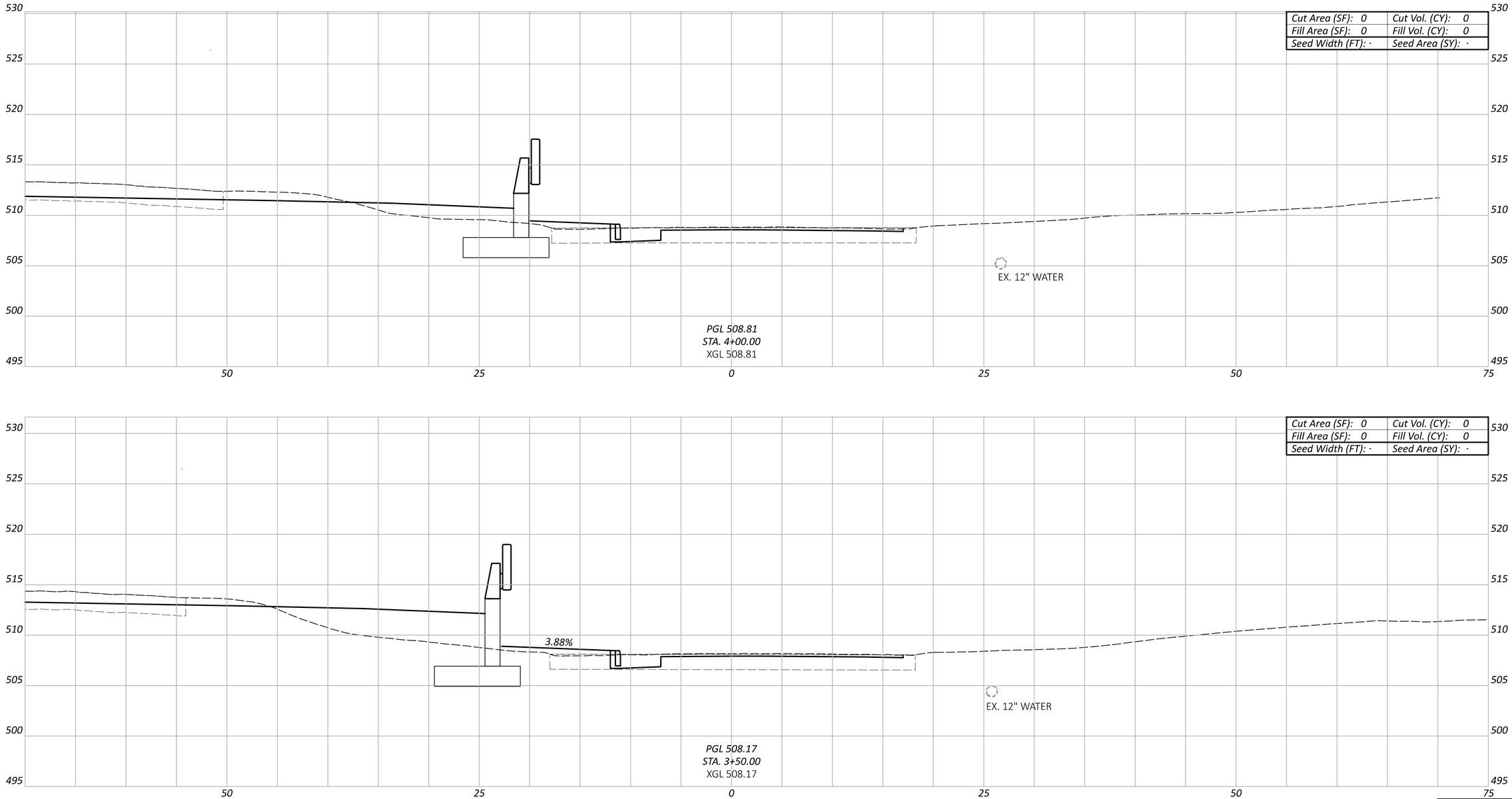
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MJR 06/21/24

PROJECT ID
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SHEET P.113 TOTAL 463

HAM-75-1.95

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HAM-75-1.95

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CROSS SECTIONS - WINCHELL AVE
STA 3+50.00 TO STA 4+00.00

DESIGN AGENCY
EMH&T

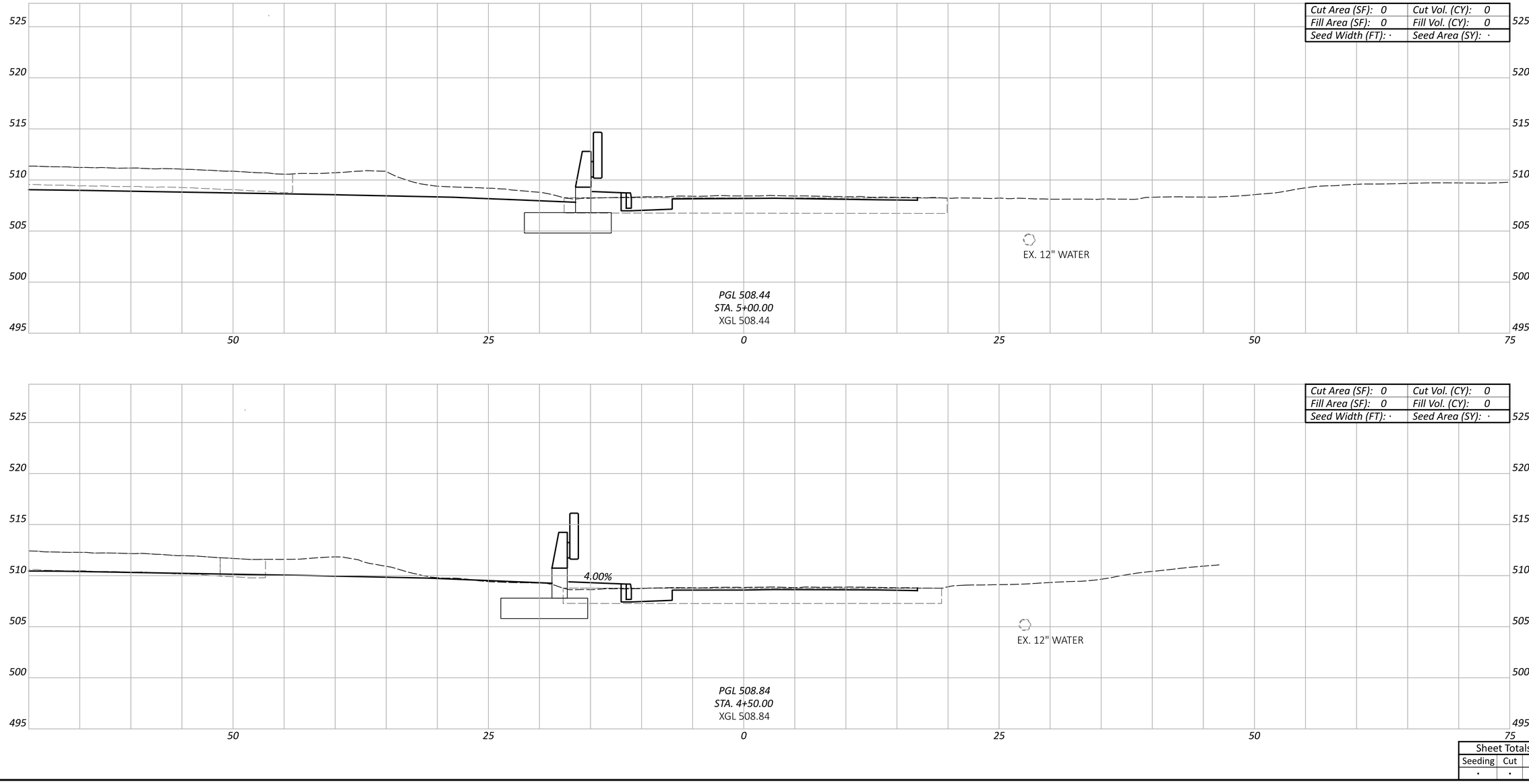
DESIGNER
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REVIEWER
MJR 06/21/24

PROJECT ID
114161

Sheet Totals		
Seeding	Cut	Fill
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SHEET P.114 TOTAL 463



CROSS SECTIONS - WINCHELL AVE
STA 4+50.00 TO STA 5+00.00

HAM-75-1.95

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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

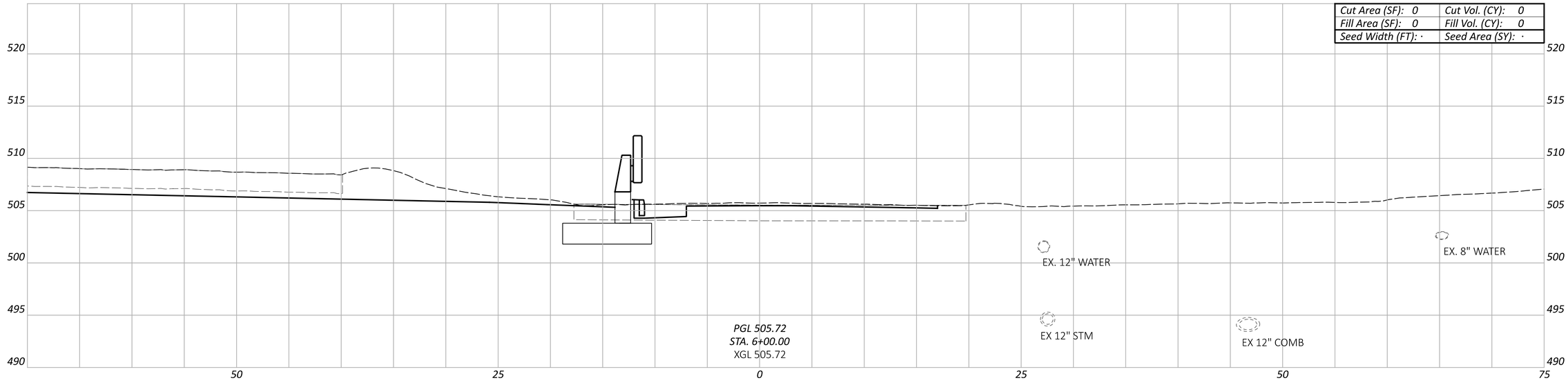
PROJECT ID
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Sheet Totals		
Seeding	Cut	Fill
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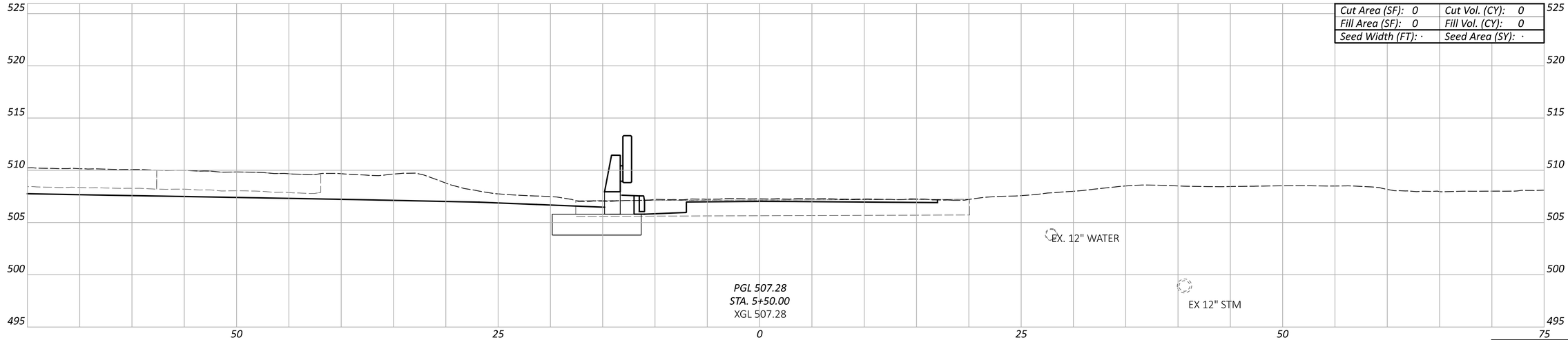
SHEET	TOTAL
P.115	463

CROSS SECTIONS - WINCHELL AVE
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Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

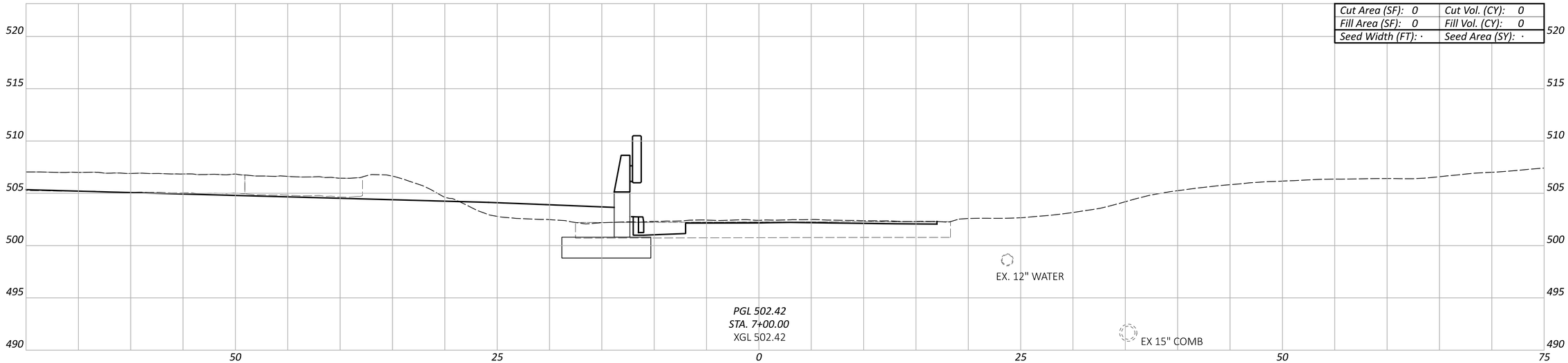
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MJR 06/21/24

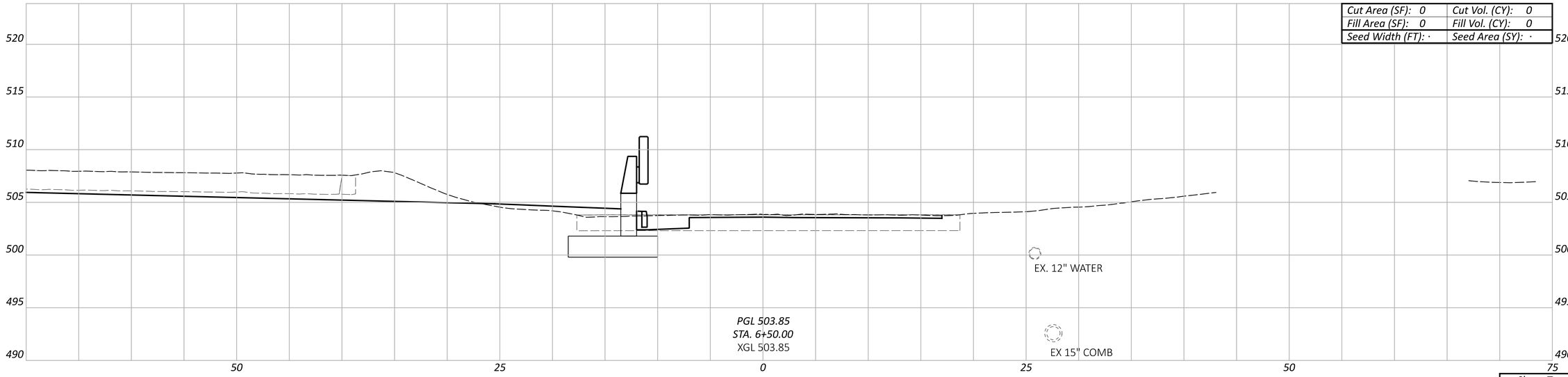
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SHEET P.116 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - WINCHELL AVE
STA 6+50.00 TO STA 7+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
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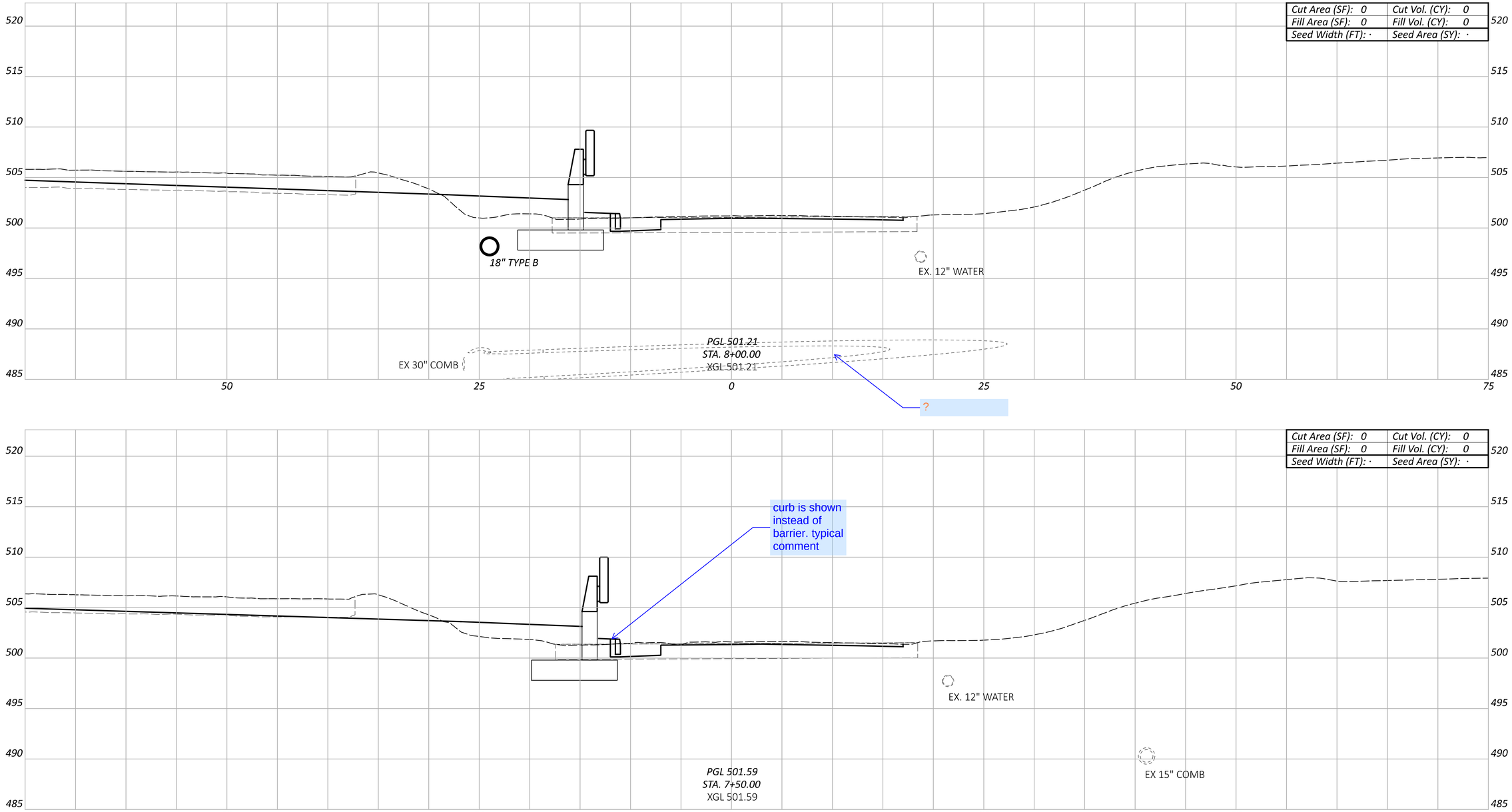
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SHEET P.117 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - WINCHELL AVE
STA 7+50.00 TO STA 8+00.00



Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

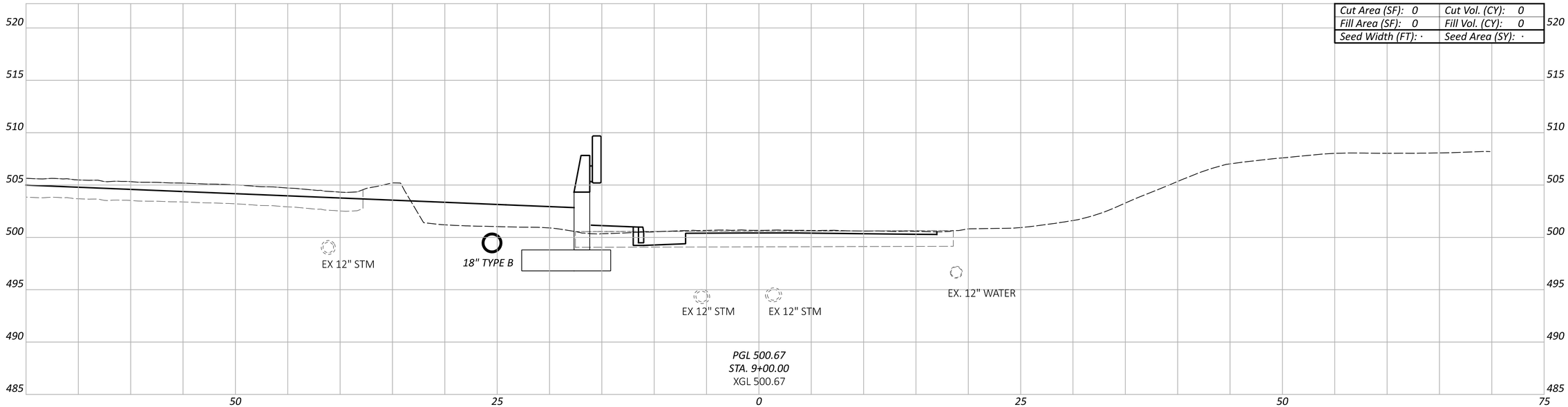
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MJR 06/21/24

PROJECT ID
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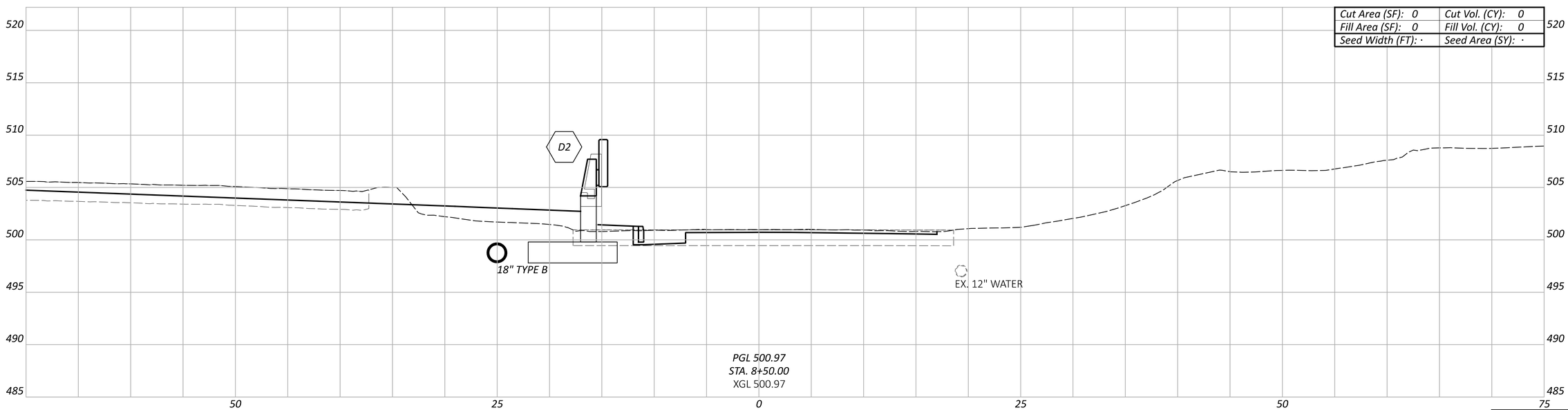
SHEET P.118 TOTAL 463

HAM-75-1.95

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Seed Width (FT): ·	Seed Area (SY): ·



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Fill Area (SF): 0	Fill Vol. (CY): 0
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Sheet Totals		
Seeding	Cut	Fill
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CROSS SECTIONS - WINCHELL AVE
STA 8+50.00 TO STA 9+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

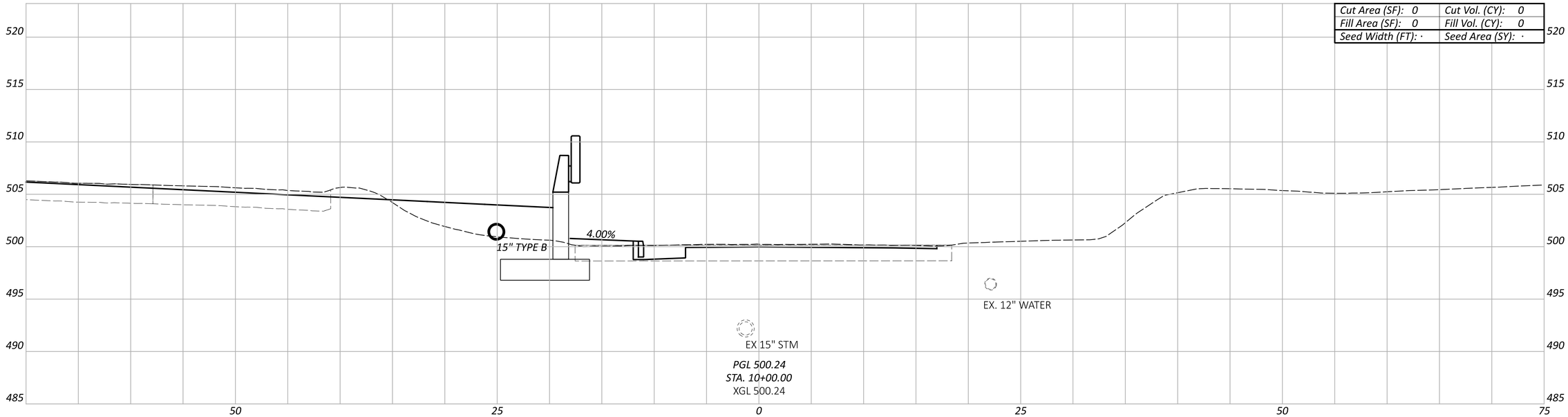
PROJECT ID
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SHEET	TOTAL
P.119	463

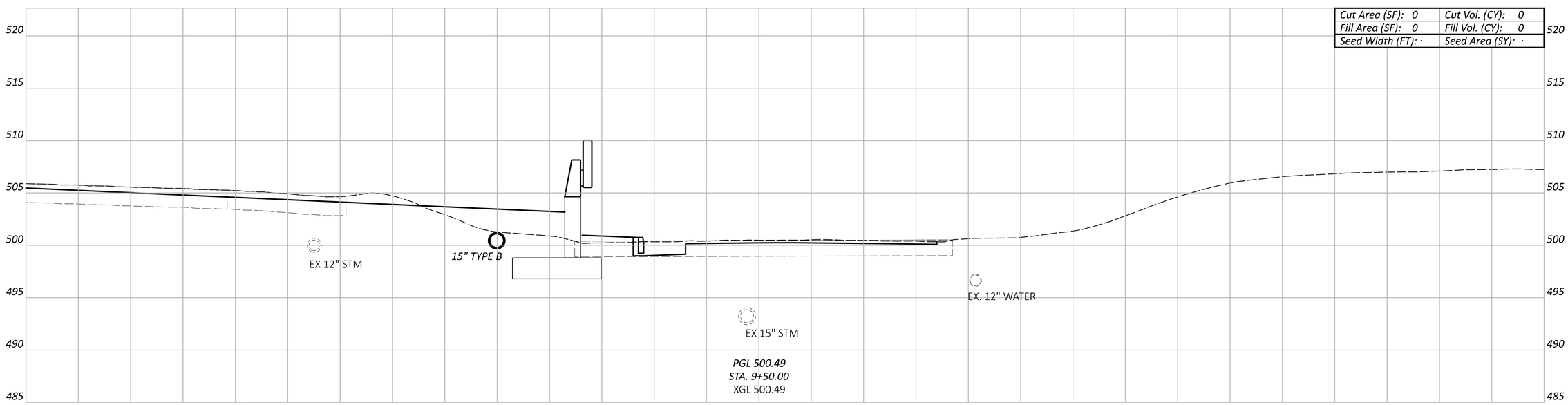
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CROSS SECTIONS - WINCHELL AVE
STA 9+50.00 TO STA 10+00.00

HAM-75-1.95

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DESIGN AGENCY
EMH&T

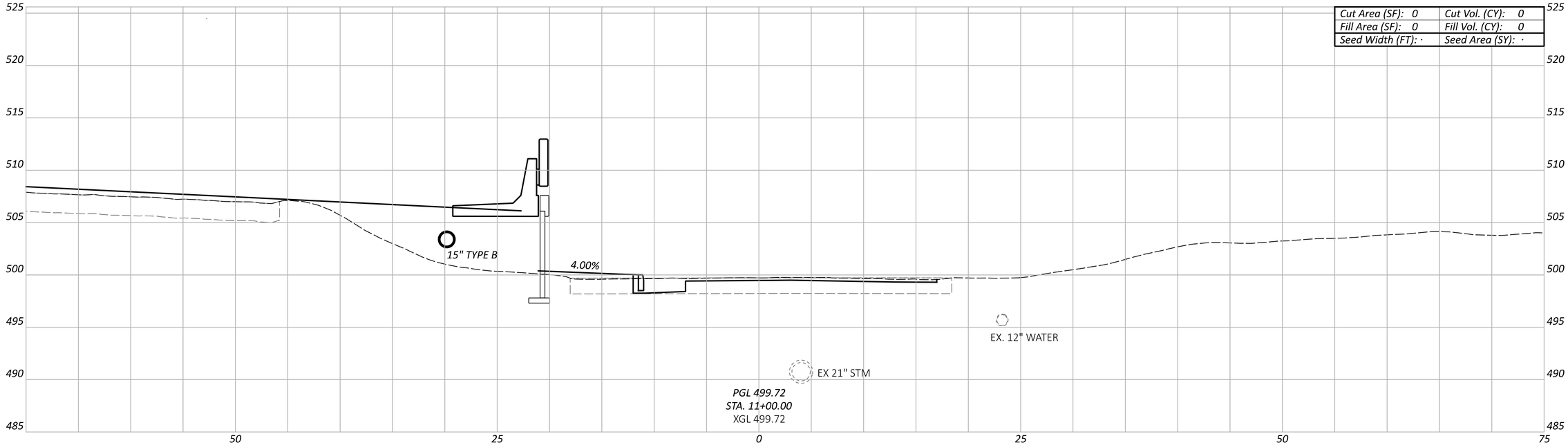
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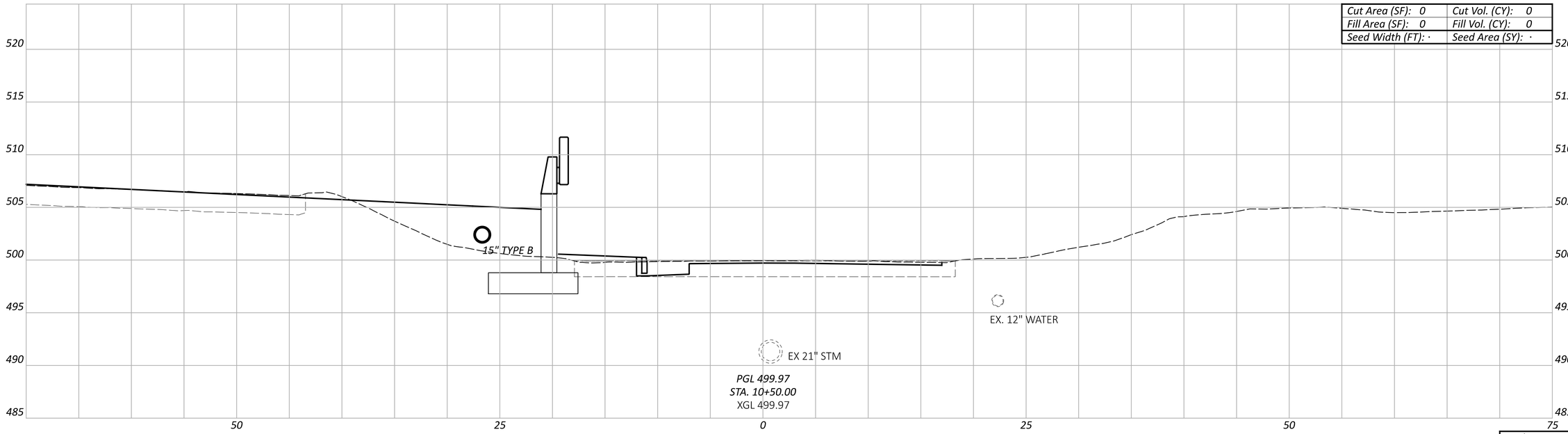
REVIEWER
MJR 06/21/24

PROJECT ID
114161

Sheet Totals		
Seeding	Cut	Fill
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SHEET P.120 TOTAL 463





CROSS SECTIONS - WINCHELL AVE
STA 10+50.00 TO STA 11+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

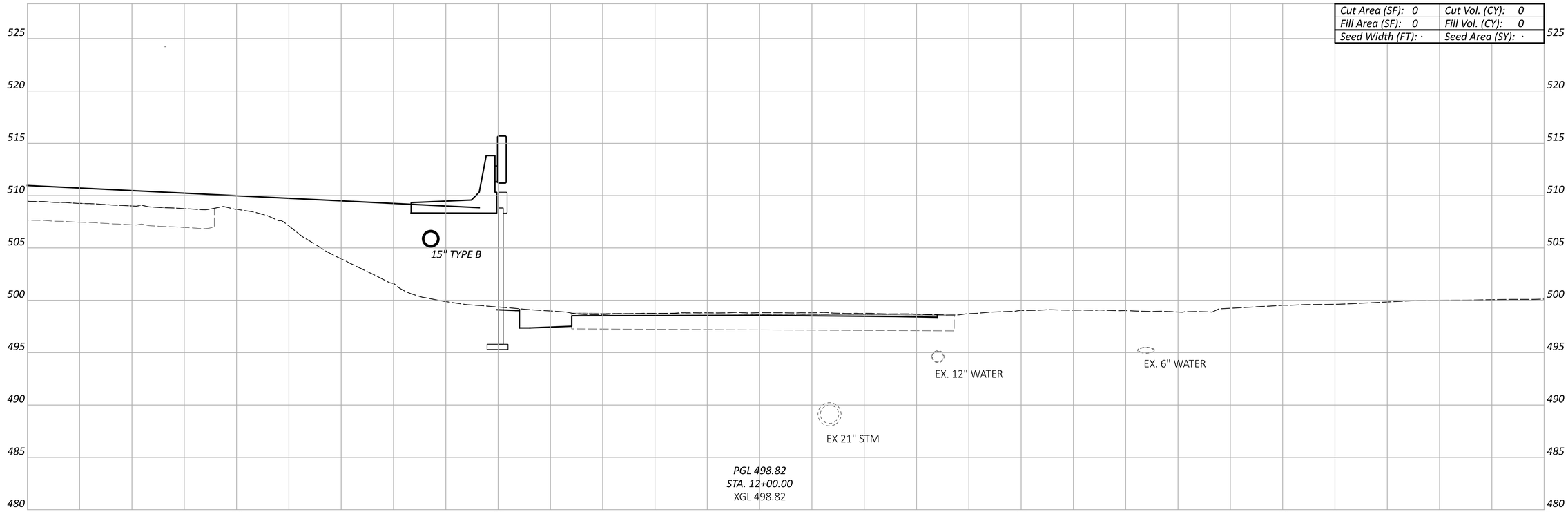
PROJECT ID
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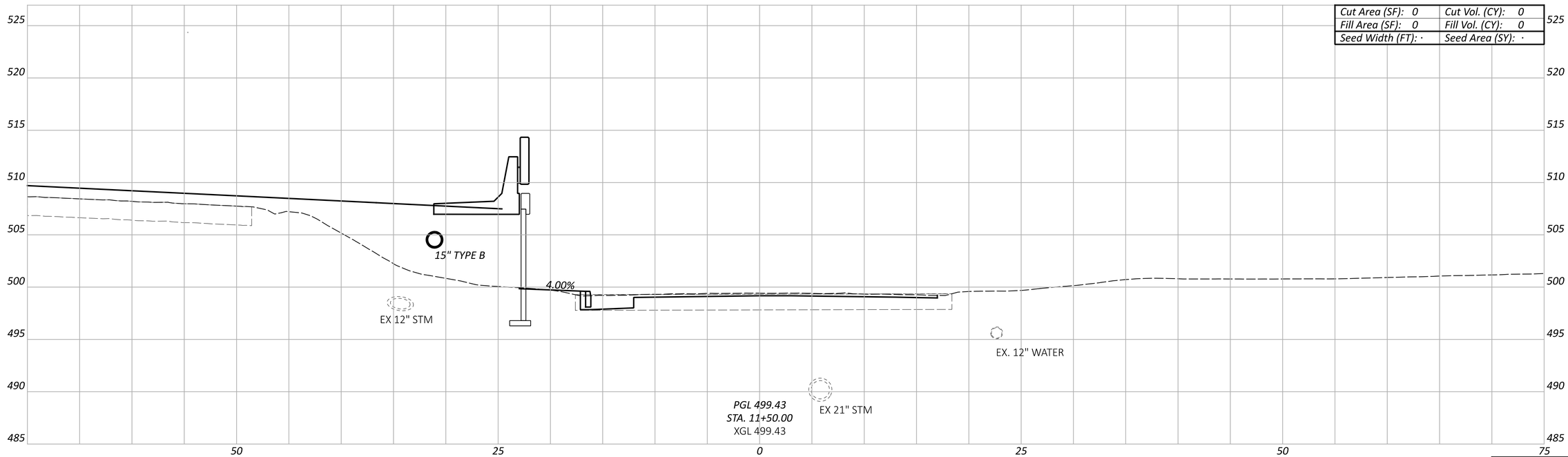
SHEET P.121 TOTAL 463

Sheet Totals		
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HAM-75-1.95

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CROSS SECTIONS - WINCHELL AVE
STA 11+50.00 TO STA 12+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

Sheet Totals		
Seeding	Cut	Fill
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SHEET	TOTAL
P.122	463

HAM-75-1.95

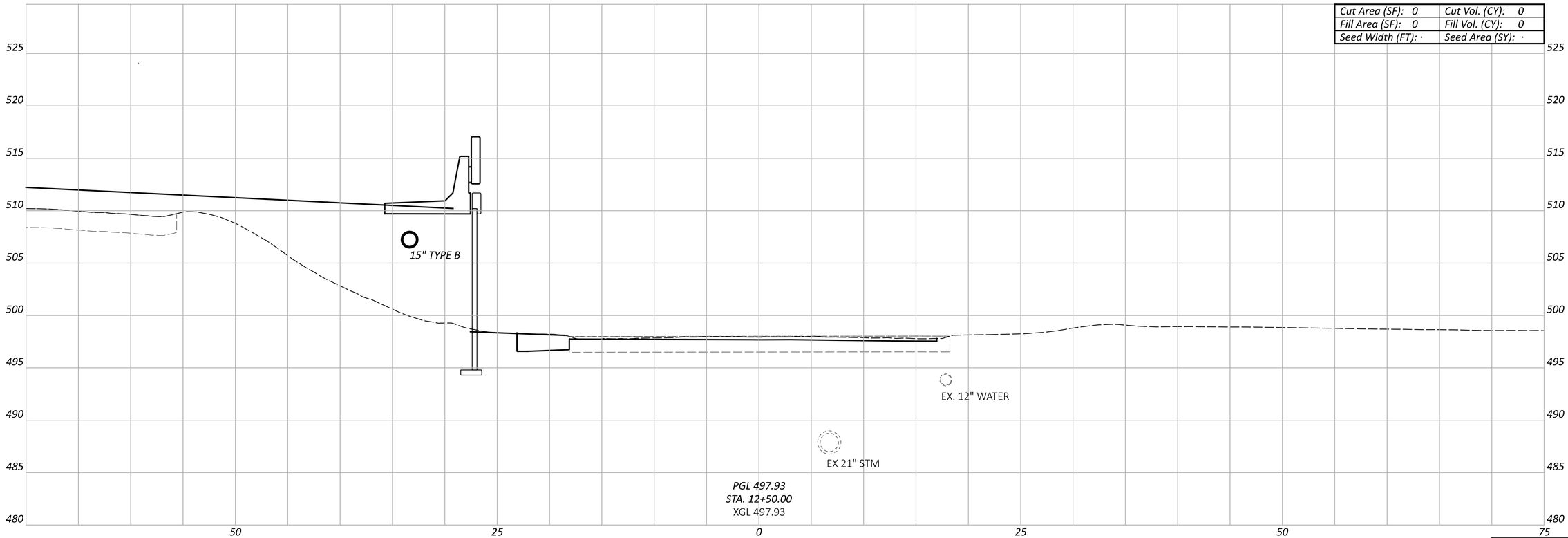
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HAM-75-1.95

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CROSS SECTIONS - WINCHELL AVE
STA 12+50.00

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMHT

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.123 TOTAL 463

HAM-75-1.95

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

530 525 520 515 510 505 500 495 490 485 480

50 25 0 25 50 75

15" TYPE B

EX. 12" WATER

EX 21" STM

PGL 496.90
STA. 13+00.00
XGL 496.90

Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - WINCHELL AVE
STA 13+00.00

DESIGN AGENCY
EMHT

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.124 TOTAL 463

HAM-75-1.95

MODEL: CLP_Winchell - 13+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:11:30 PM USER: sbeal
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Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

530
525
520
515
510
505
500
495
490
485
480

50 25 0 25 50 75

15" TYPE B

EX. 12" WATER

EX 21" STM

PGL 495.49
STA. 13+50.00
XGL 495.49

Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - WINCHELL AVE
STA 13+50.00

DESIGN AGENCY
EMHT

DESIGNER
SJB

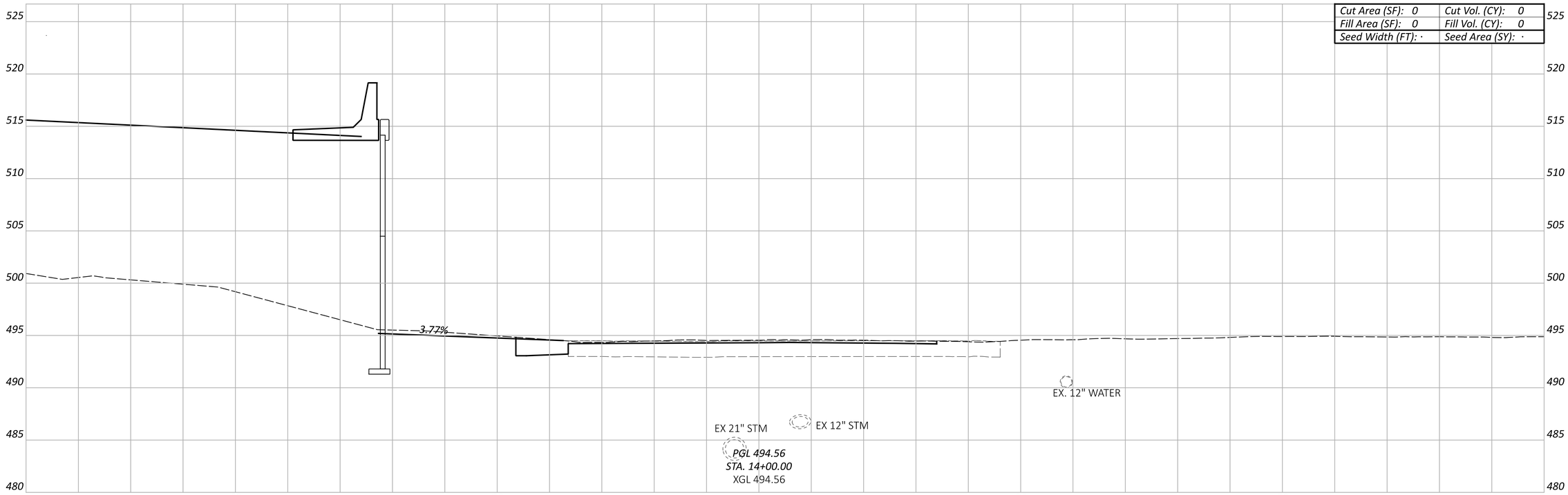
REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET	TOTAL
P.125	463

CROSS SECTIONS - WINCHELL AVE
STA 14+00.00

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMH&T

DESIGNER
SJB

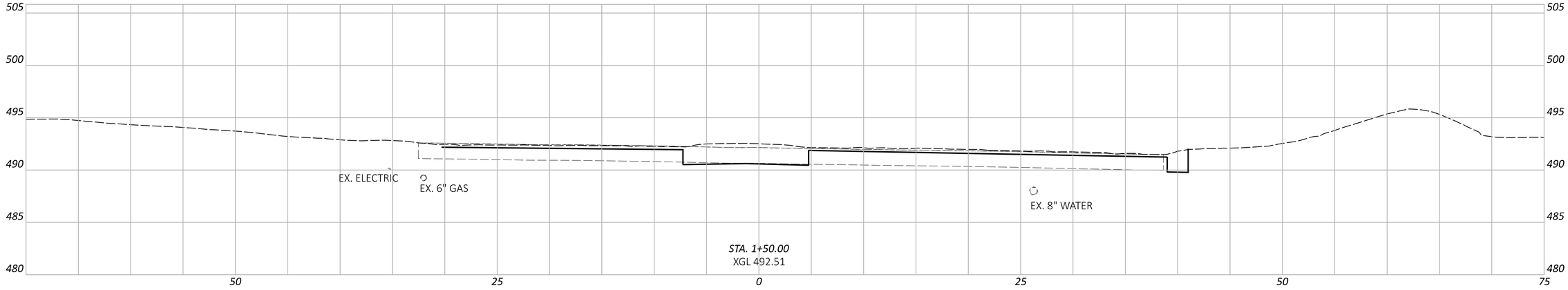
REVIEWER
MJR 06/21/24

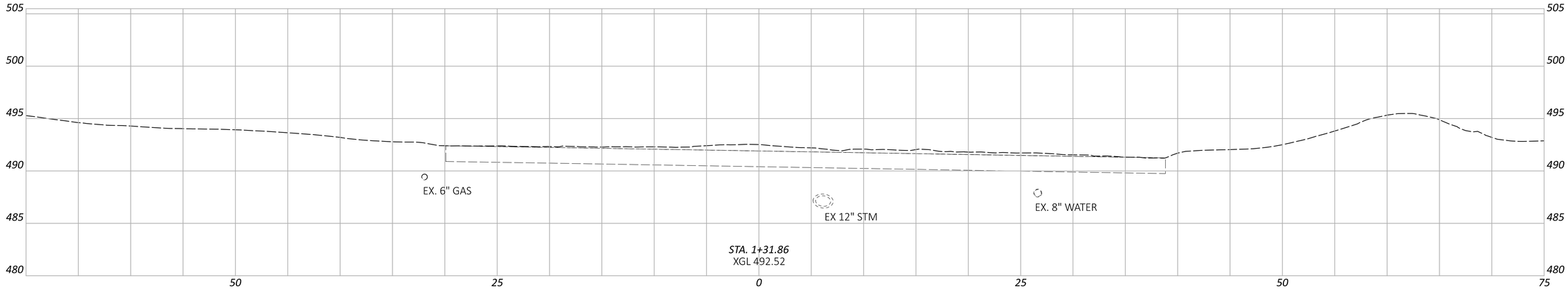
PROJECT ID
114161

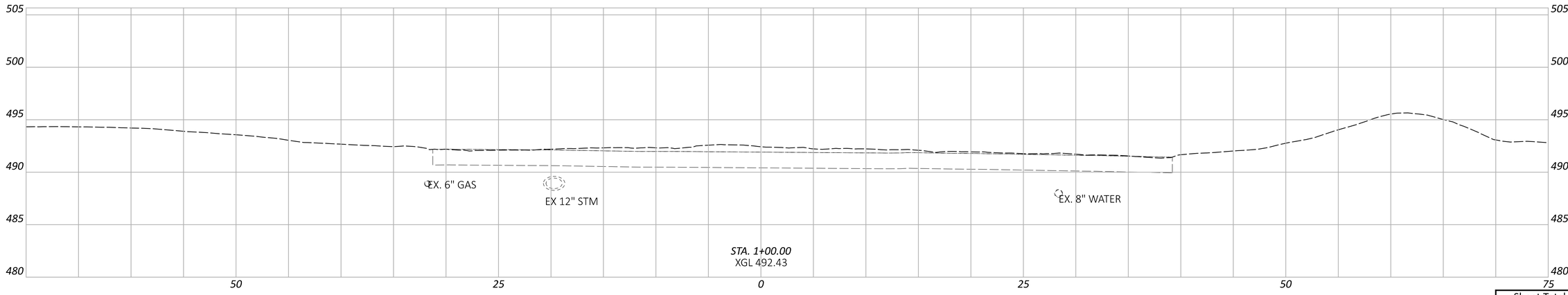
SHEET P.126 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - BANK ST
STA 1+00.00 TO STA 1+50.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

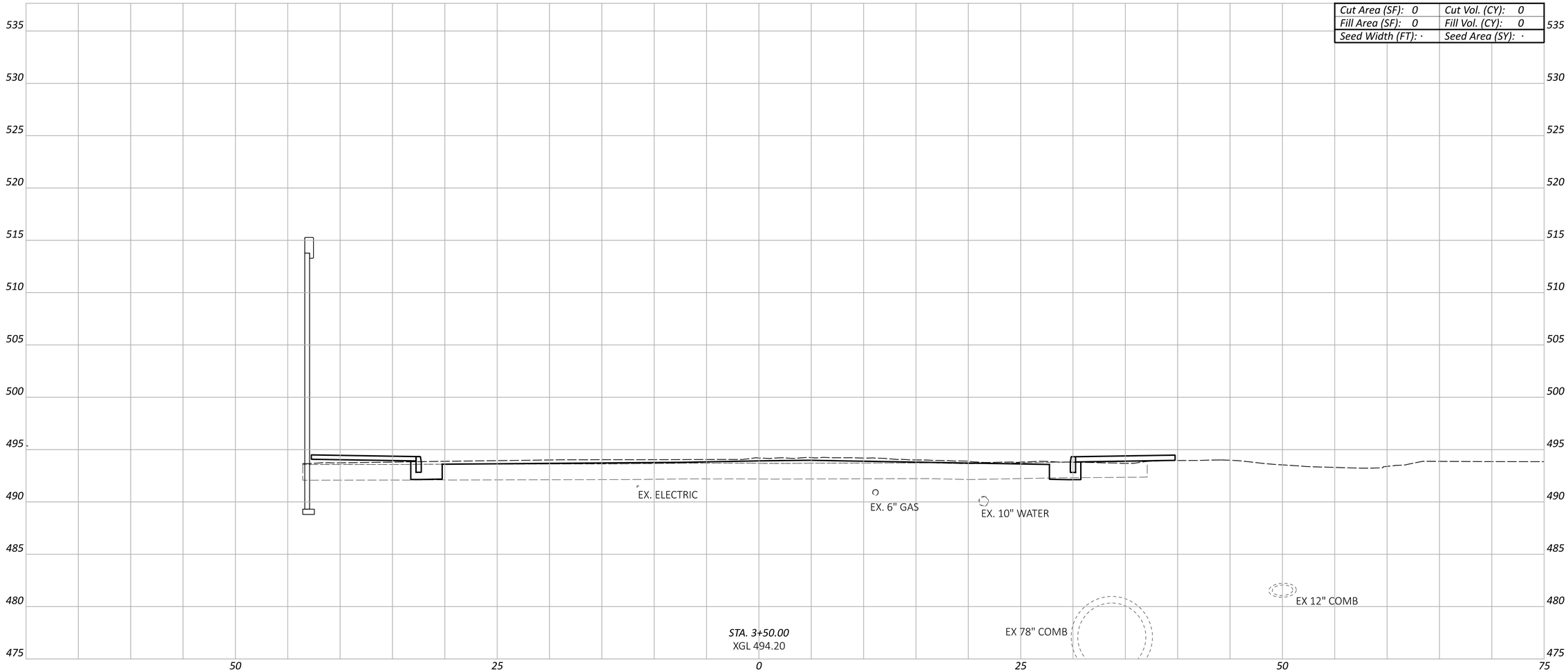
Sheet Totals		
Seeding	Cut	Fill
-	-	-

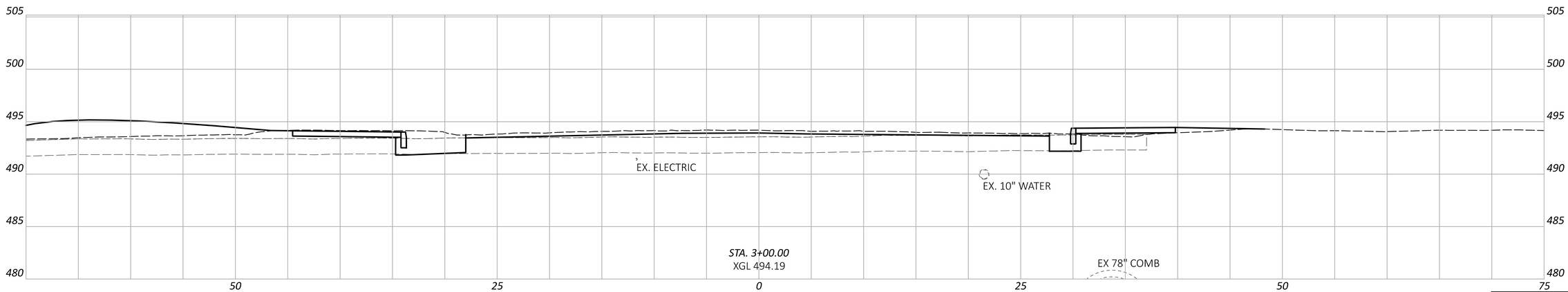
SHEET P.127 TOTAL 463

HAM-75-1.95

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·





CROSS SECTIONS - BANK ST
STA 3+00.00 TO STA 3+50.00

Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY: EMH&T

DESIGNER: SJB

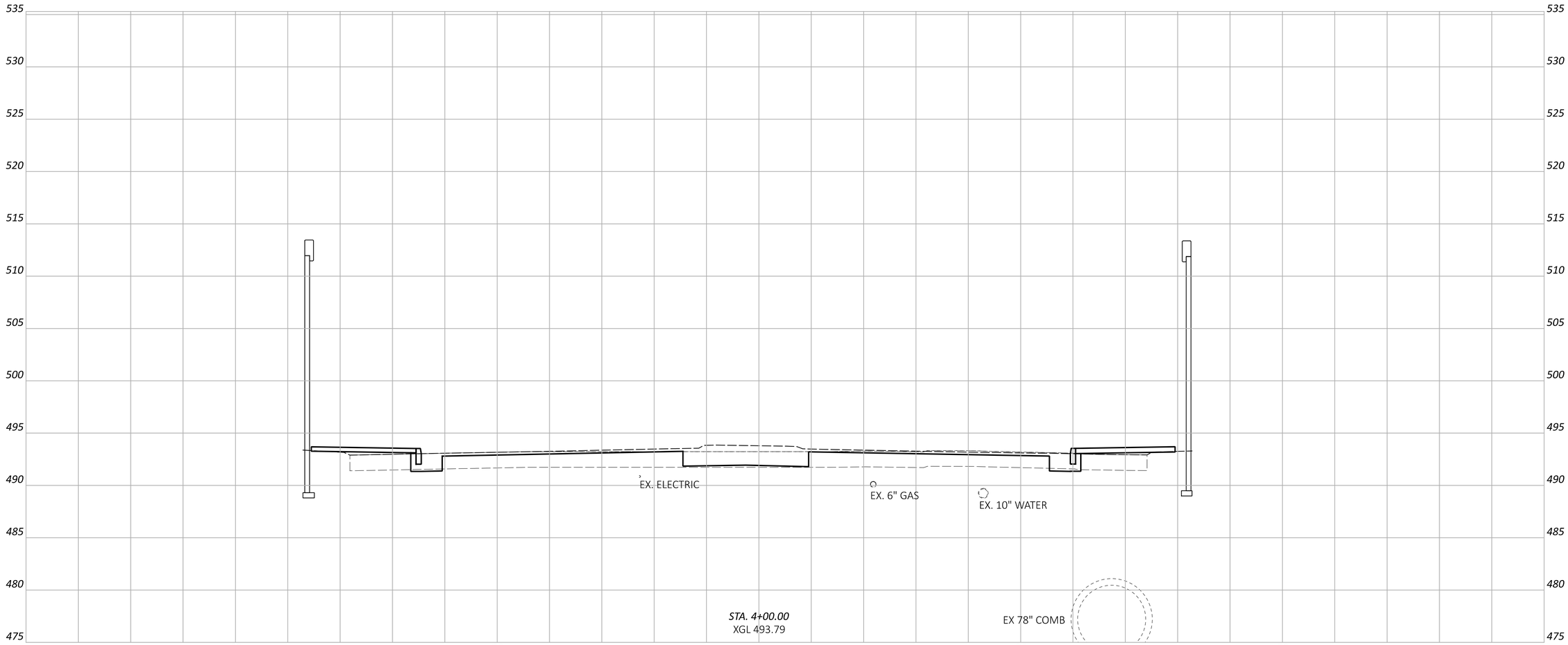
REVIEWER: MJR 06/21/24

PROJECT ID: 114161

SHEET: P.128 TOTAL: 463

HAM-75-1.95

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HAM-75-1.95

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CROSS SECTIONS - BANK ST
STA 4+00.00

DESIGN AGENCY: EMH&T

DESIGNER: SJB

REVIEWER: MJR 06/21/24

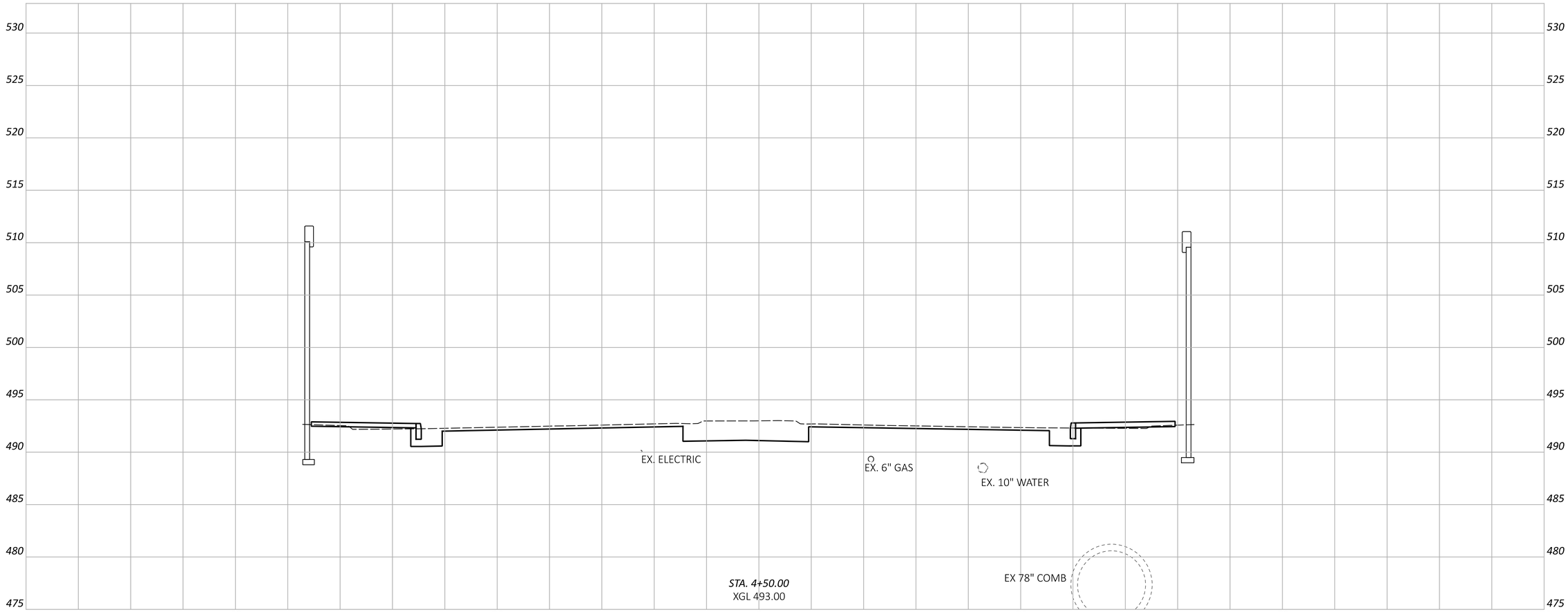
PROJECT ID: 114161

Sheet Totals		
Seeding	Cut	Fill
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SHEET: P.129 TOTAL: 463

HAM-75-1.95

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CROSS SECTIONS - BANK ST
STA 4+50.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

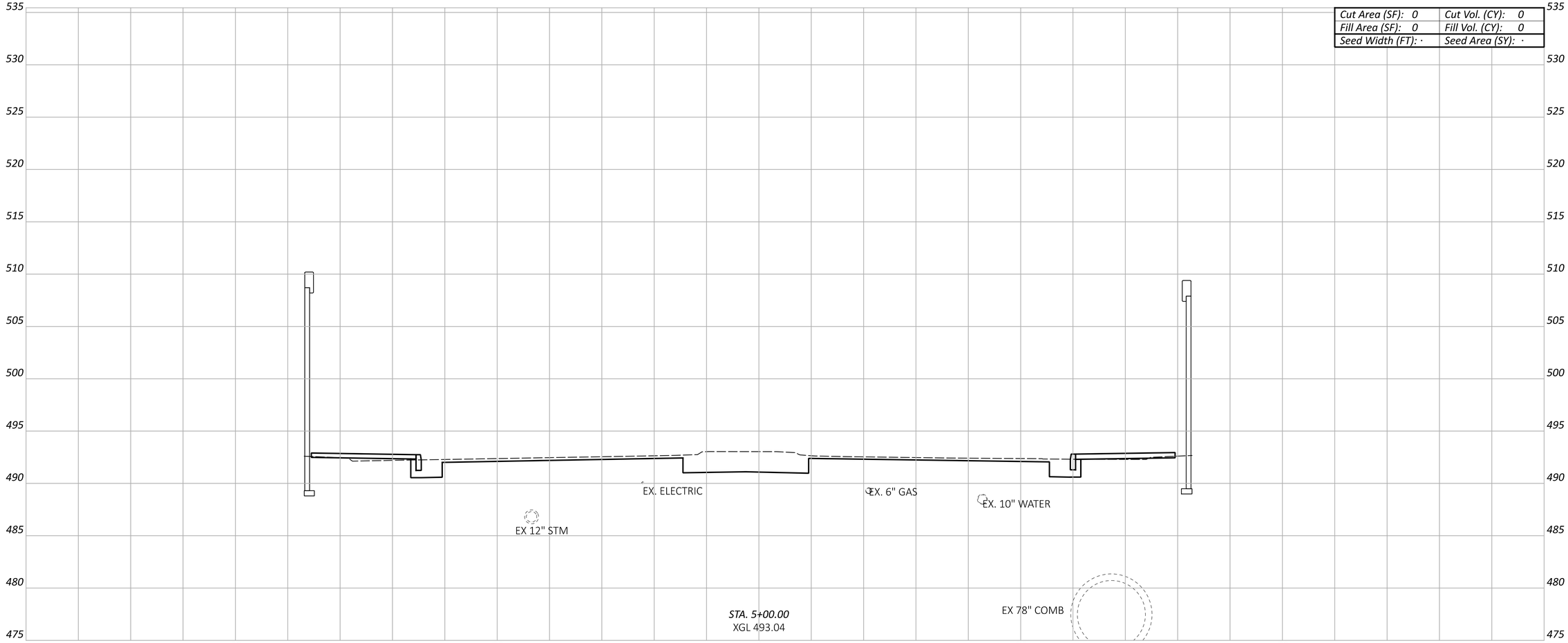
REVIEWER
MJR 06/21/24

PROJECT ID
114161

Sheet Totals		
Seeding	Cut	Fill
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SHEET P.130 | TOTAL 463

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



CROSS SECTIONS - BANK ST
STA 5+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

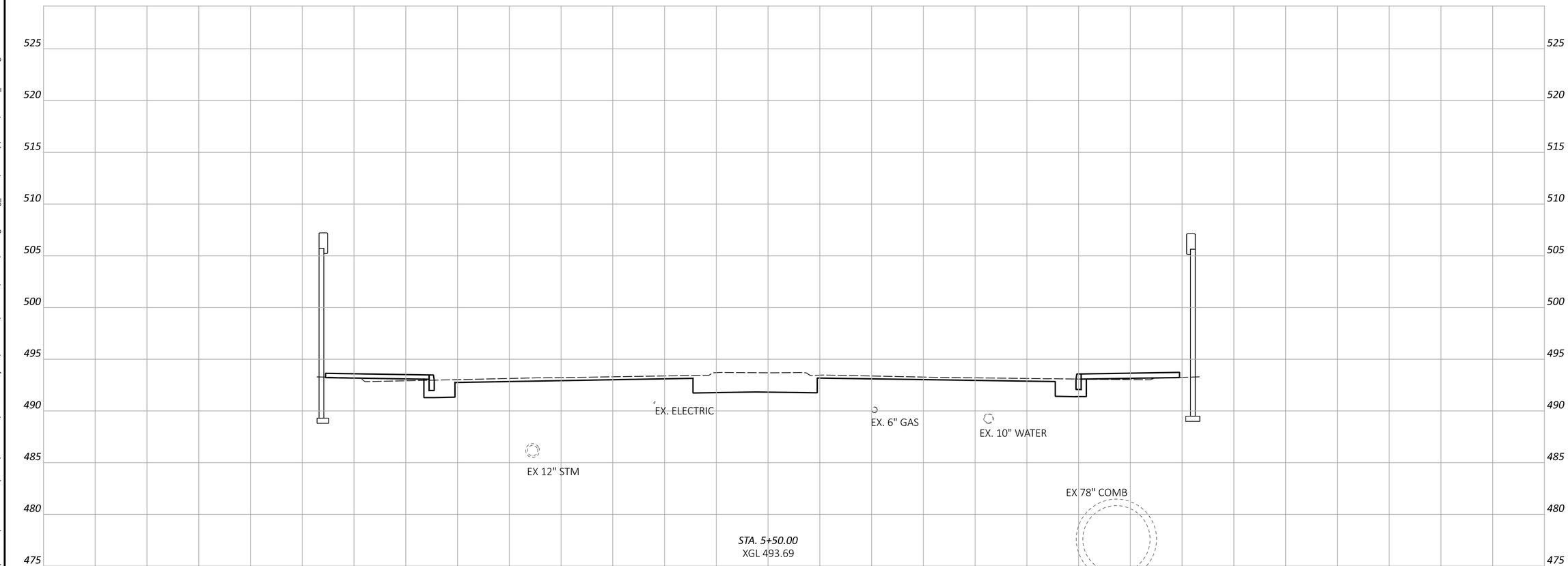
SHEET P.131 | TOTAL 463

HAM-75-1.95

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HAM-75-1.95

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CROSS SECTIONS - BANK ST
STA 5+50.00

DESIGN AGENCY
EMH&T

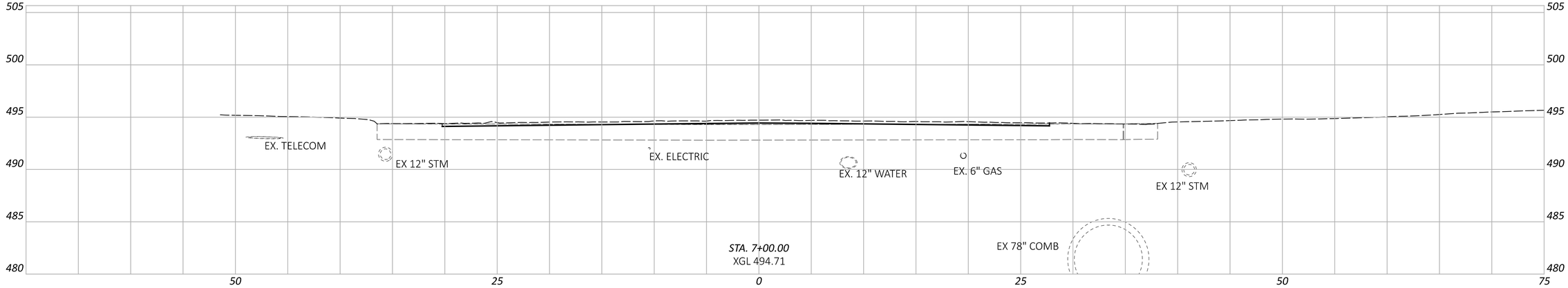
DESIGNER
SJB

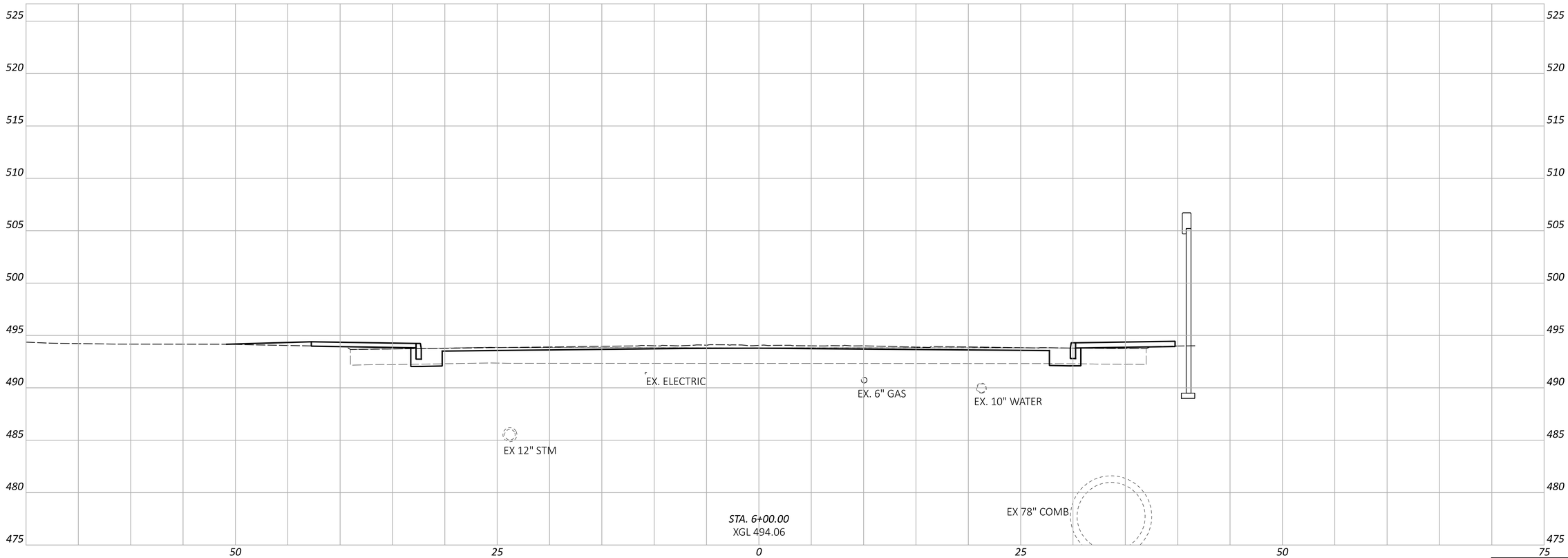
REVIEWER
MJR 06/21/24

PROJECT ID
114161

Sheet Totals		
Seeding	Cut	Fill
.	.	.

SHEET P.132 | TOTAL 463





CROSS SECTIONS - BANK ST
STA 6+00.00 TO STA 7+00.00

Sheet Totals		
Seeding	Cut	Fill
-	-	-

DESIGN AGENCY: EMHT

DESIGNER: SJB

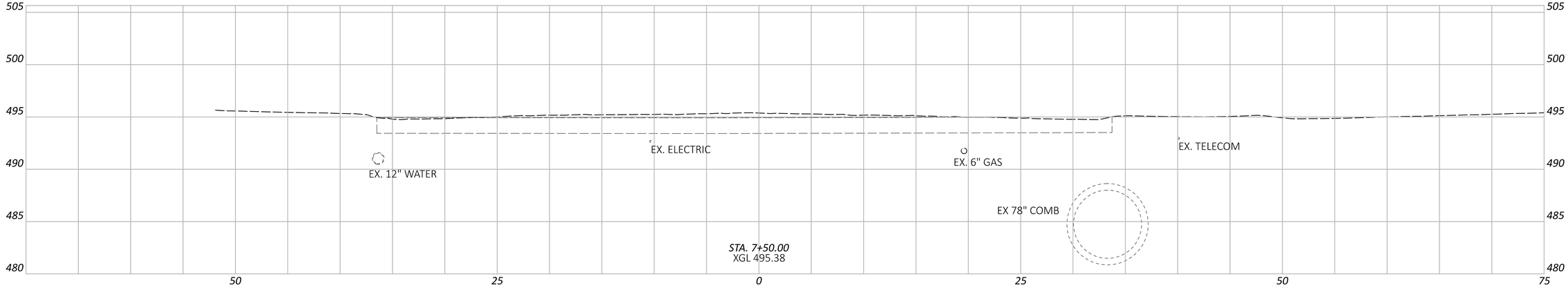
REVIEWER: MJR 06/21/24

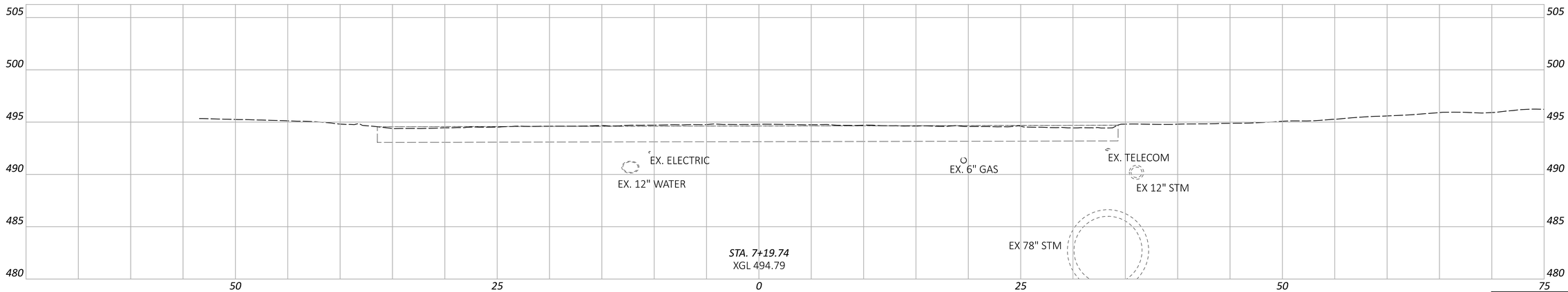
PROJECT ID: 114161

SHEET: P.133 TOTAL: 463

HAM-75-1.95

MODEL: BLP_Banks - 6+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:13:21 PM USER: sbeal
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CROSS SECTIONS - BANK ST
STA 7+19.74 TO STA 7+50.00

DESIGN AGENCY
EMHT

DESIGNER
SJB

REVIEWER
MJR 06/21/24

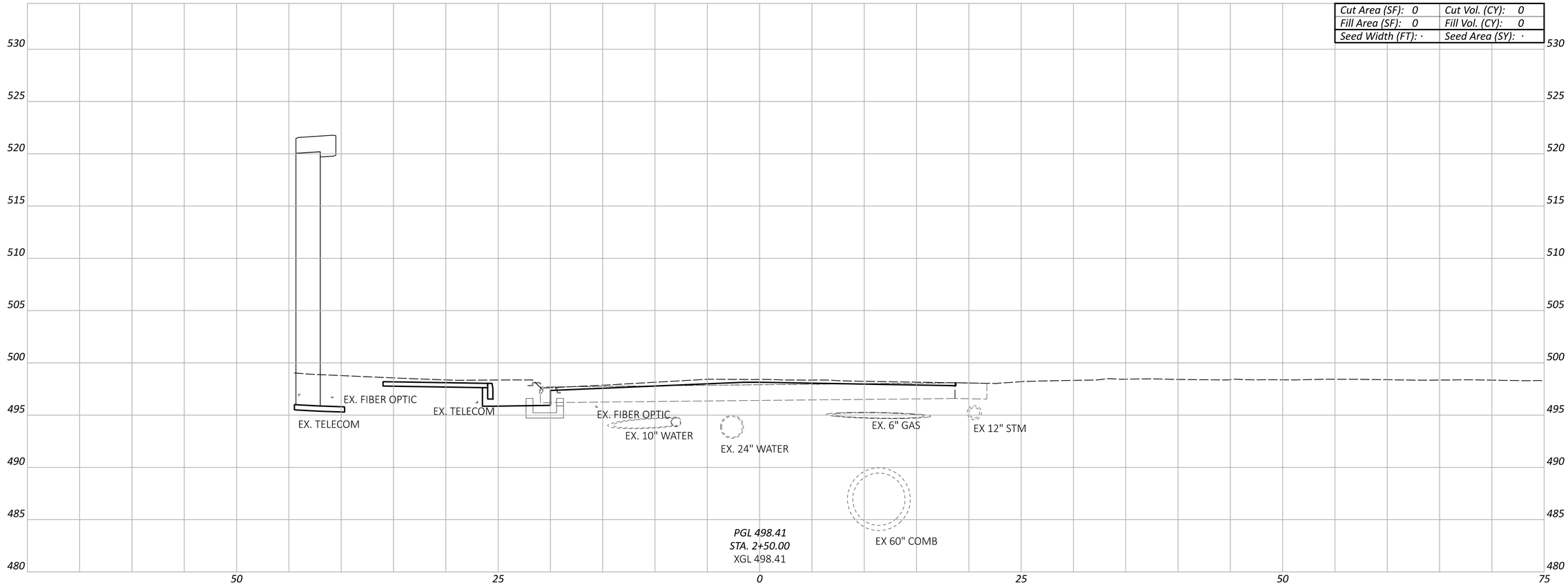
PROJECT ID
114161

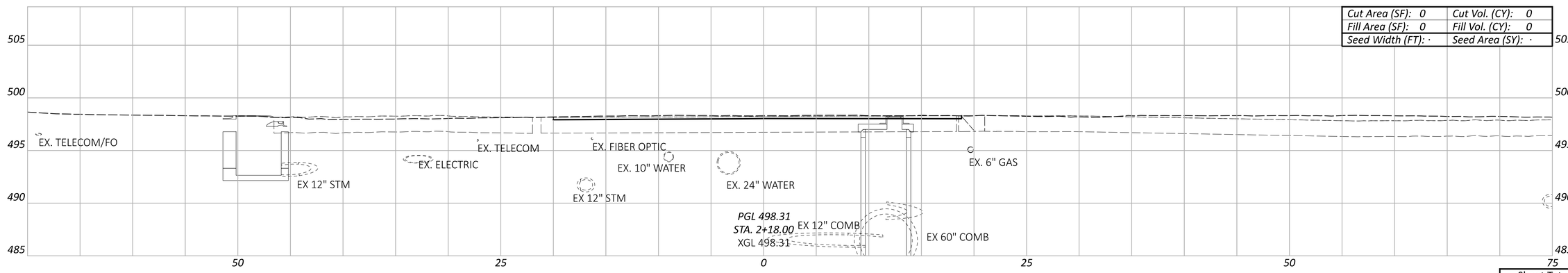
Sheet Totals		
Seeding	Cut	Fill
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SHEET P.134 | TOTAL 463

HAM-75-1.95

MODEL: BLP_Banks - 7+19.74 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:13:32 PM USER: sbeal
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CROSS SECTIONS - HARRISON AVE
STA 2+18.00 TO STA 2+50.00

HAM-75-1.95

MODEL: CLP_HARRISON - 2+18.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:14:04 PM USER: sbeal
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Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMH&T

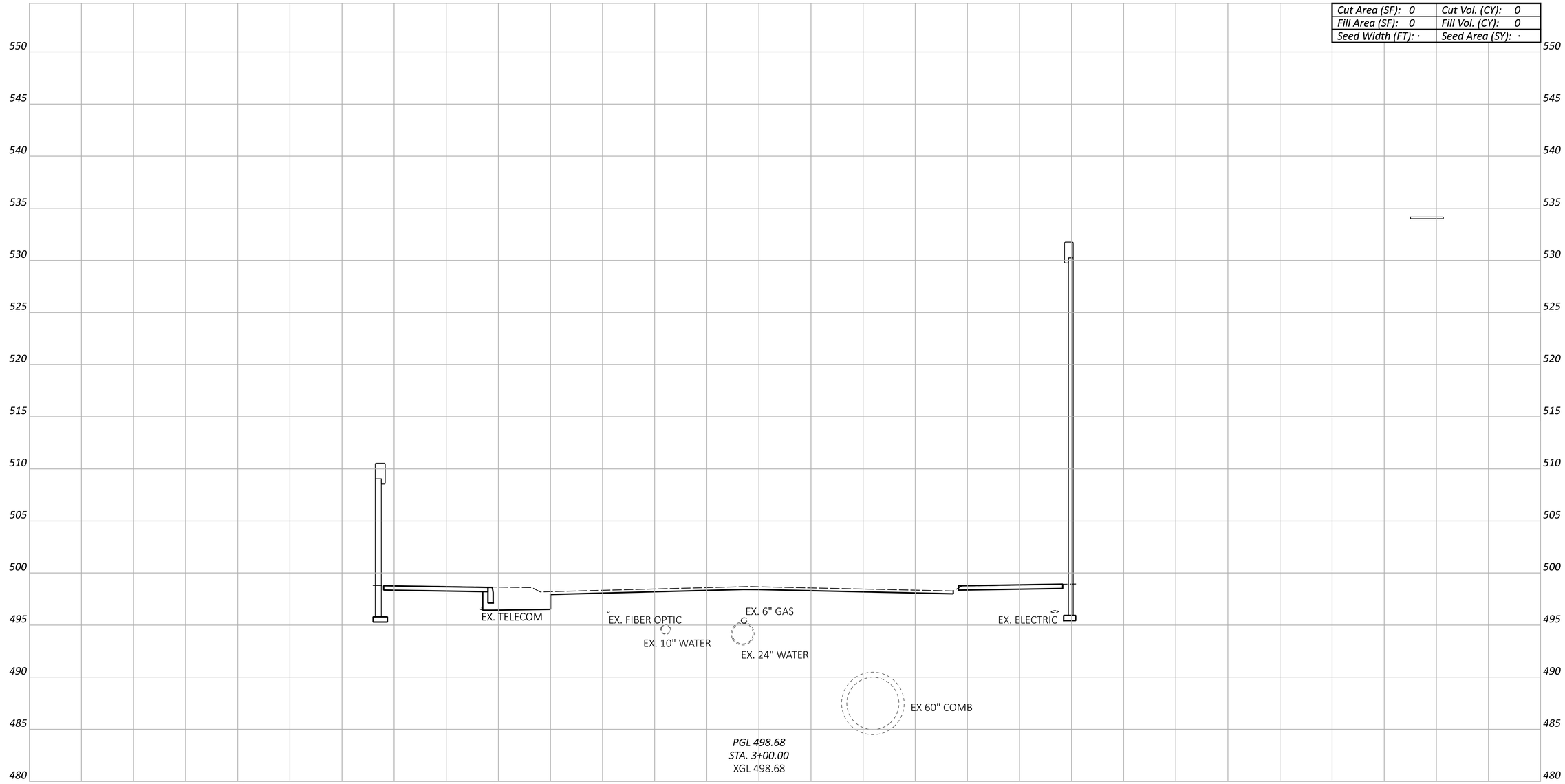
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.135 TOTAL 463

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Seed Width (FT): ·	Seed Area (SY): ·



CROSS SECTIONS - HARRISON AVE
STA 3+00.00

Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.136 TOTAL 463

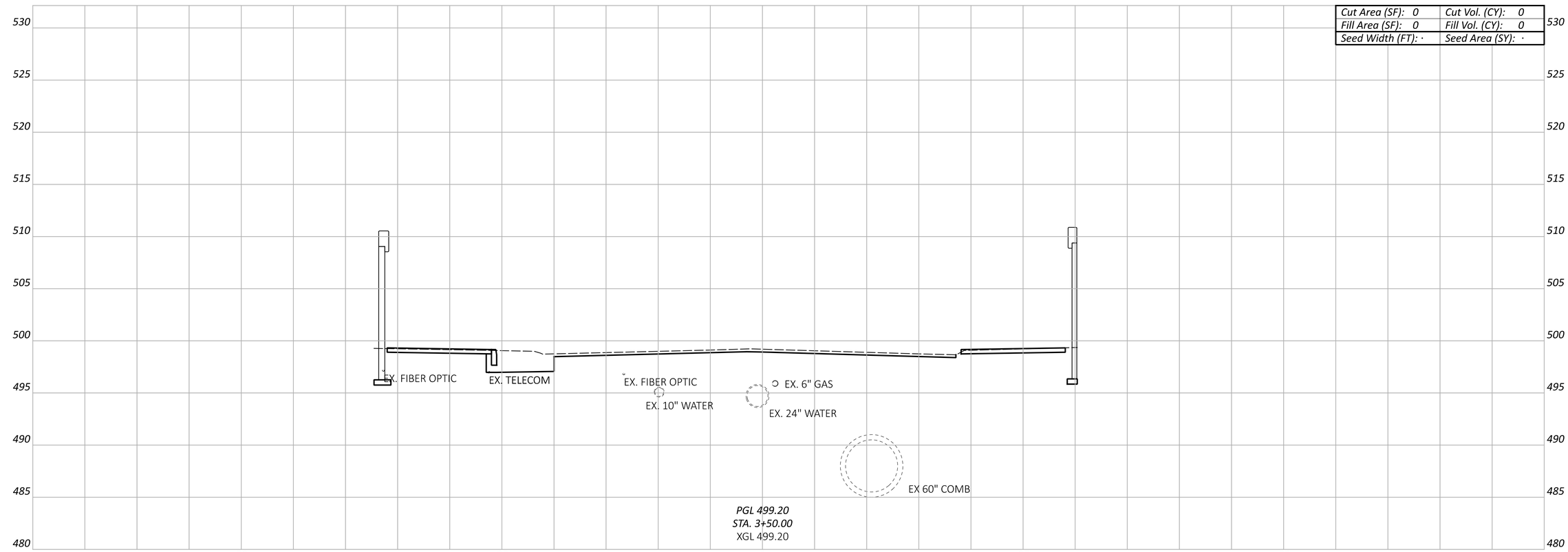
HAM-75-1.95

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HAM-75-1.95

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - HARRISON AVE
STA 3+50.00

DESIGN AGENCY: EMHT

DESIGNER: SJB

REVIEWER: MJR 06/21/24

PROJECT ID: 114161

SHEET: P.137 TOTAL: 463

HAM-75-1.95

MODEL: CLP_HARRISON - 4+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:14:47 PM USER: sbeal
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CROSS SECTIONS - HARRISON AVE
STA 4+00.00

Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMHT

DESIGNER
SJB

REVIEWER
MJR 06/21/24

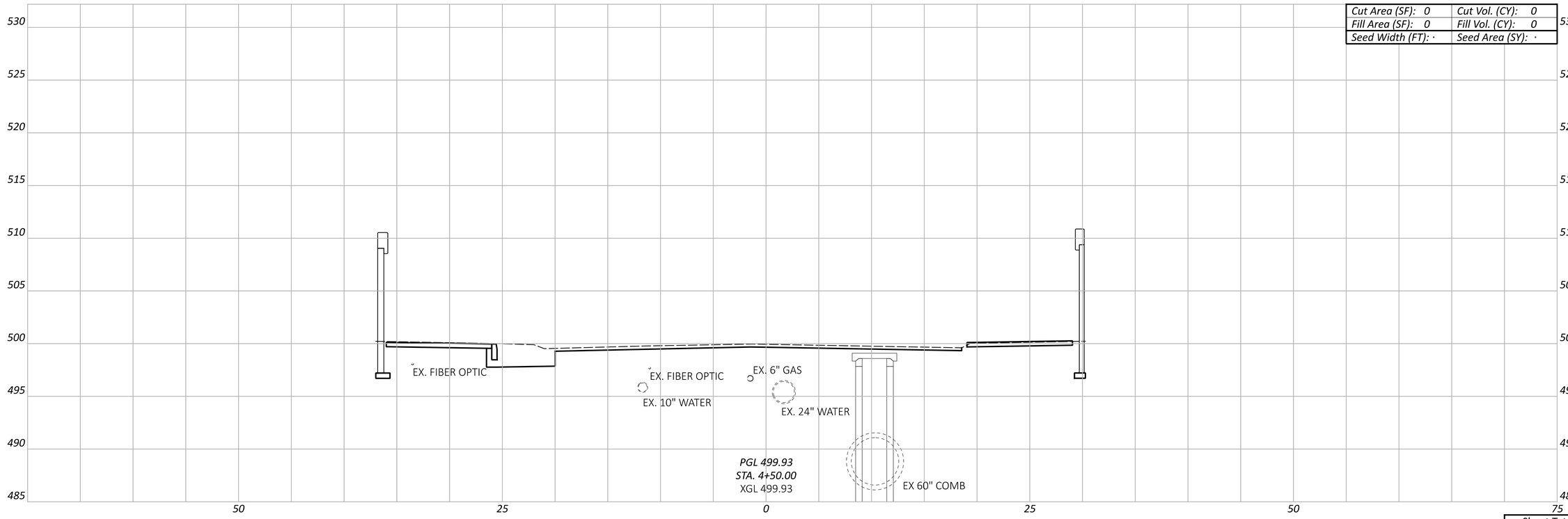
PROJECT ID
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SHEET P.138 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - HARRISON AVE
STA 4+50.00



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET	TOTAL
P.139	463

HAM-75-1.95

MODEL: CLP_HARRISON - 5+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:15:10 PM USER: sbeal
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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

530
525
520
515
510
505
500
495
490
485

50 25 0 25 50 75

EX. FIBER OPTIC
EX. FIBER OPTIC
EX 12" STM
EX. 10" WATER
EX. 6" GAS
EX. 24" WATER
EX 42" COMB

PGL 500.37
STA. 5+00.00
XGL 500.37

Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - HARRISON AVE
STA 5+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

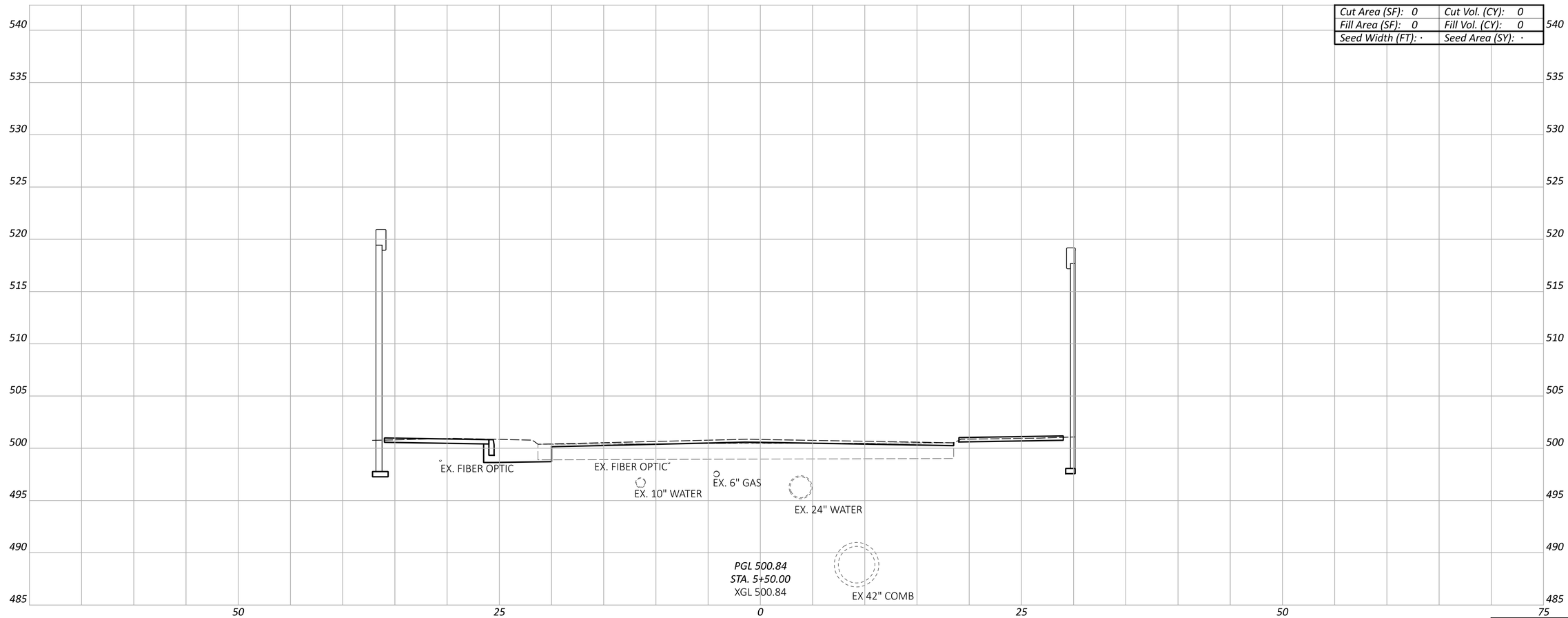
SHEET P.140 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - HARRISON AVE
STA 5+50.00

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
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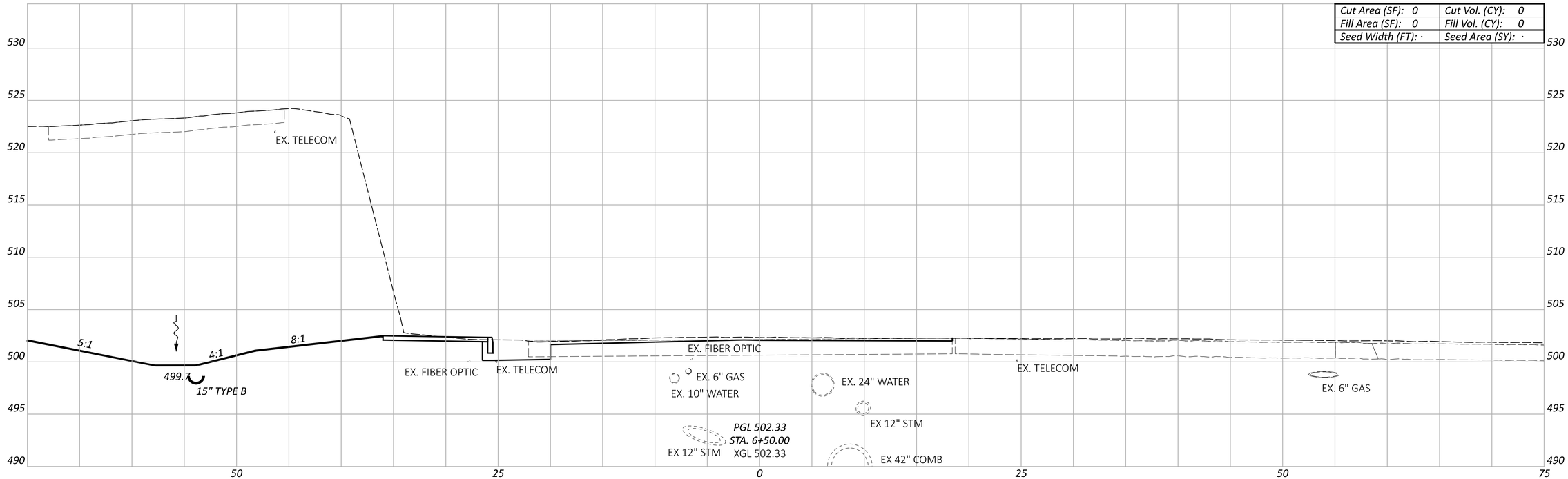
DESIGN AGENCY
EMHT

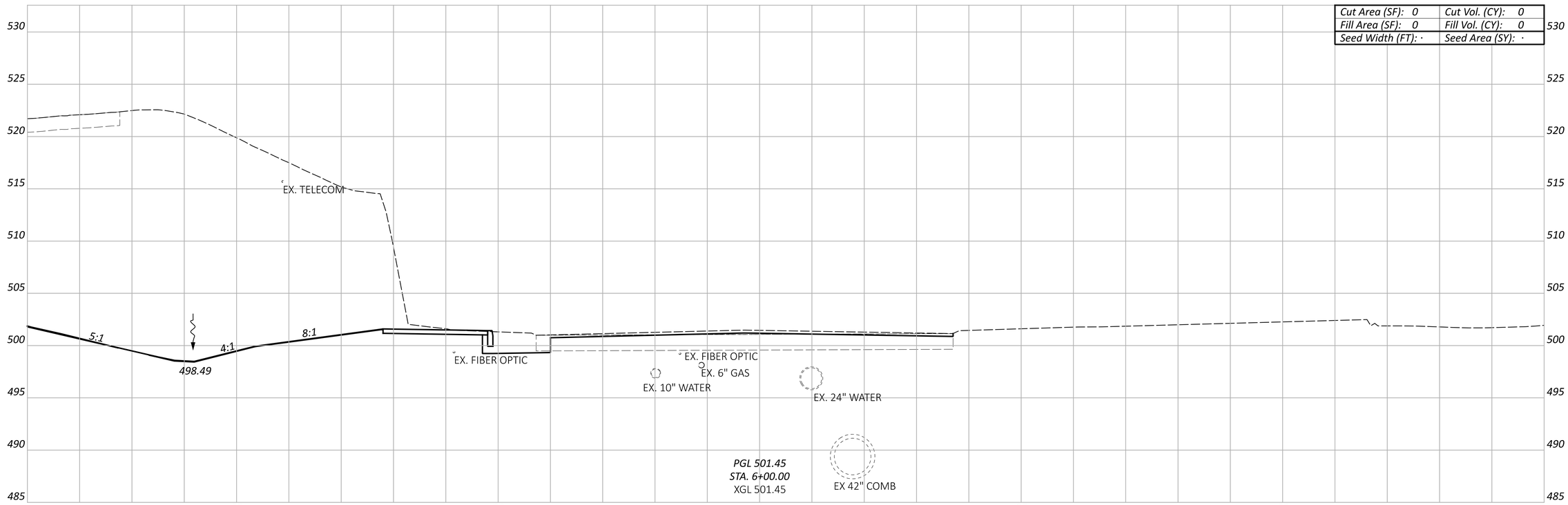
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.141 TOTAL 463





CROSS SECTIONS - HARRISON AVE
STA 6+00.00 TO STA 6+50.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

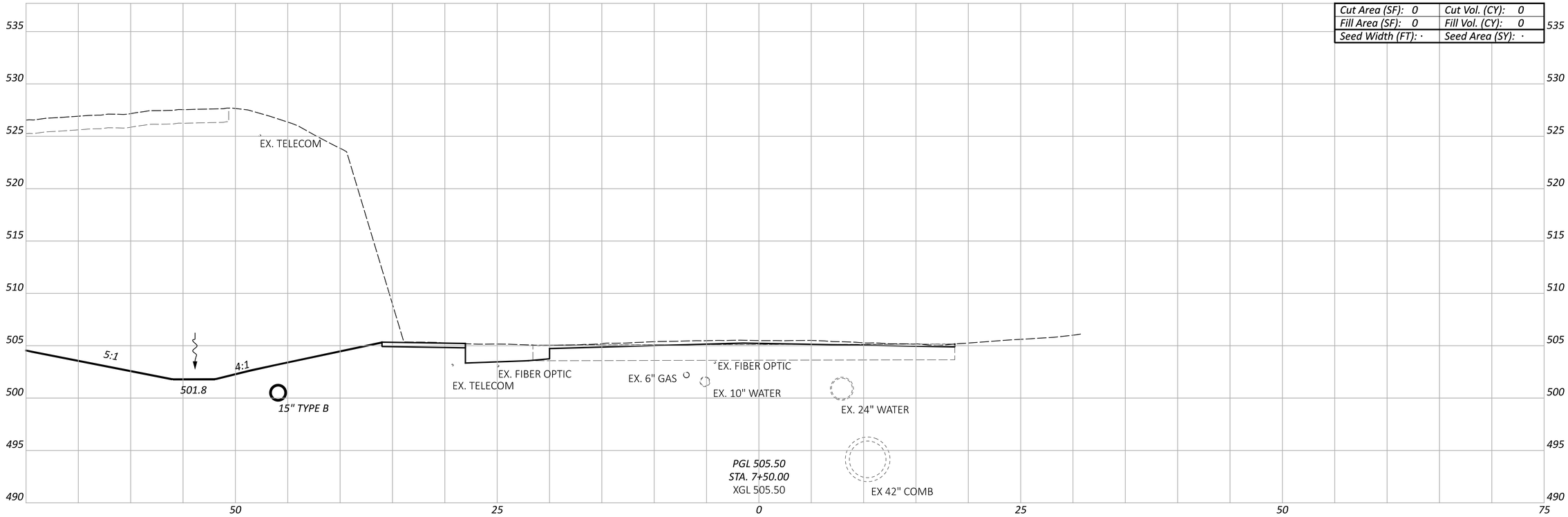
PROJECT ID
114161

SHEET P.142 | TOTAL 463

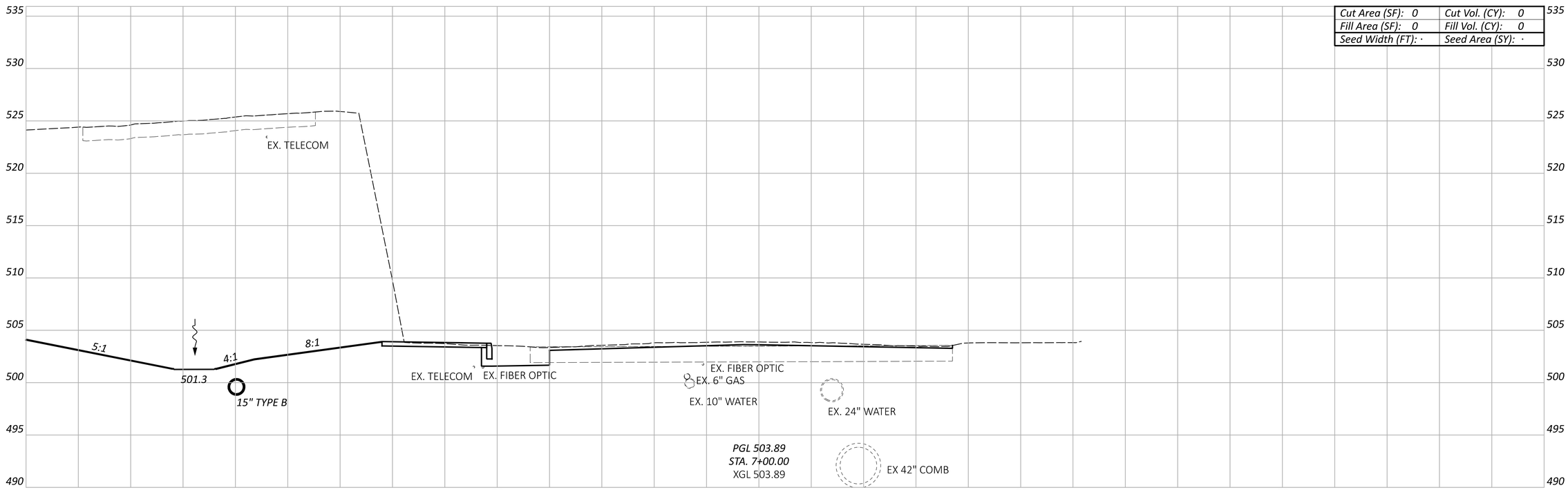
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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Cut Area (SF): 0	Cut Vol. (CY): 0
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CROSS SECTIONS - HARRISON AVE
STA 7+00.00 TO STA 7+50.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

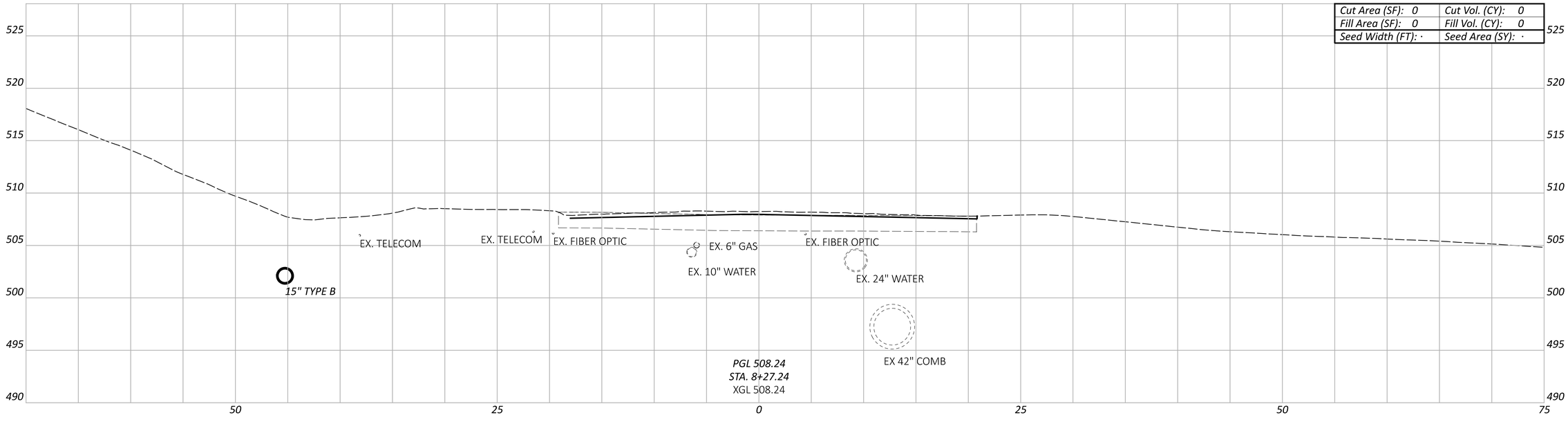
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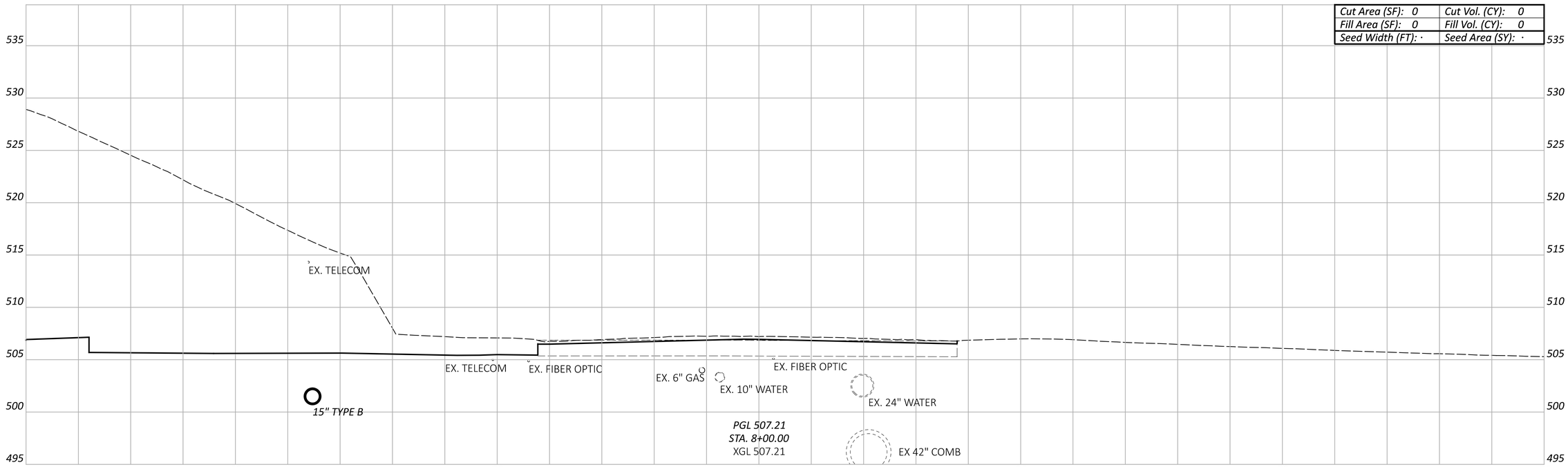
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HAM-75-1.95

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CROSS SECTIONS - HARRISON AVE
STA 8+00.00 TO STA 8+27.24

HAM-75-1.95

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Sheet Totals		
Seeding	Cut	Fill
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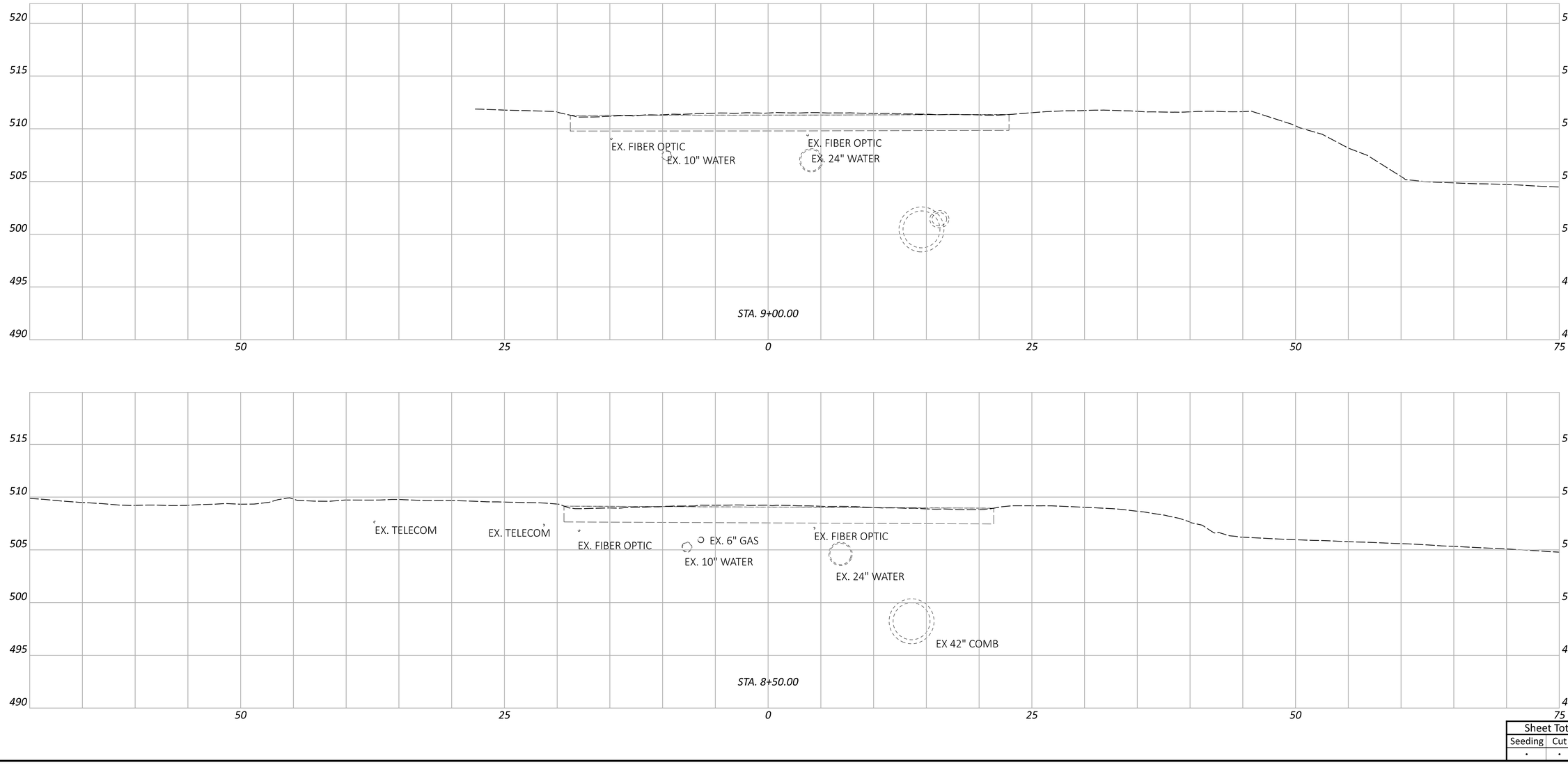
DESIGN AGENCY
EM H&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.144 TOTAL 463



CROSS SECTIONS - HARRISON AVE
STA 8+50.00 TO STA 9+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

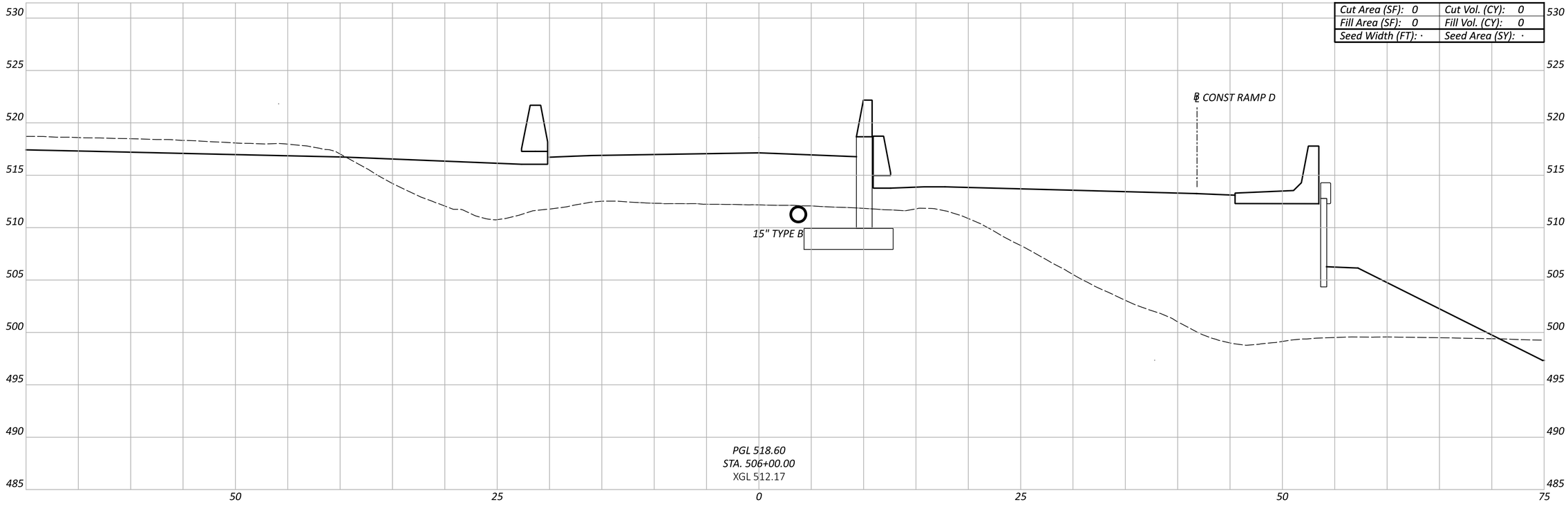
REVIEWER
MJR 06/21/24

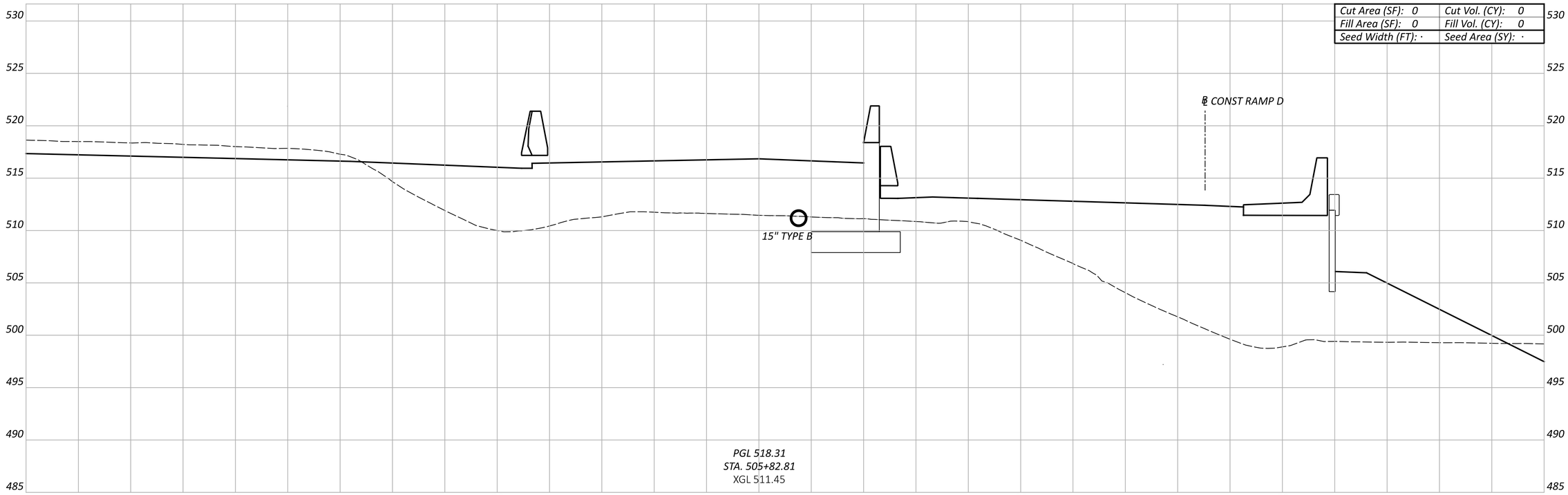
PROJECT ID
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SHEET P.145 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - RAMP A
STA 505+82.81 TO STA 506+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.146 TOTAL 463

Sheet Totals

Seeding	Cut	Fill
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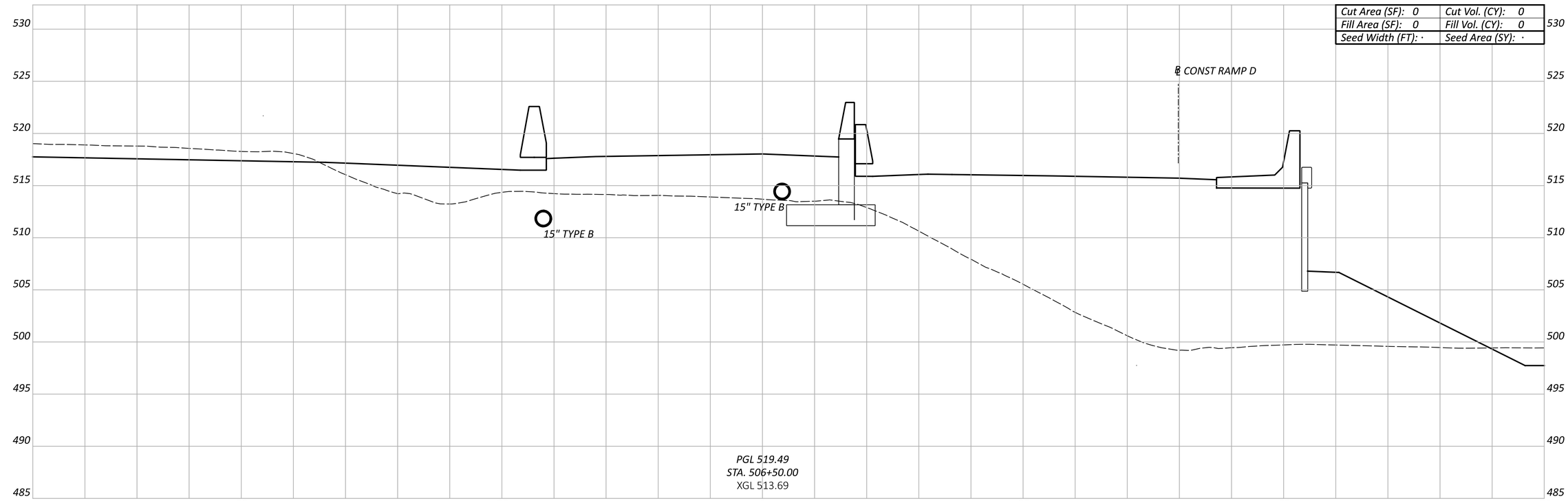
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HAM-75-1.95

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CROSS SECTIONS - RAMP A
STA 506+50.00



Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.147 TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP A - 507+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:17:24 PM USER: sbeal
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Seed Width (FT): ·	Seed Area (SY): ·

℄ CONST RAMP D

15" TYPE B

15" TYPE B

PGL 520.56
STA. 507+00.00
XGL 515.02

530 525 520 515 510 505 500 495 490 485

50 25 0 25 50 75

Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - RAMP A
STA 507+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

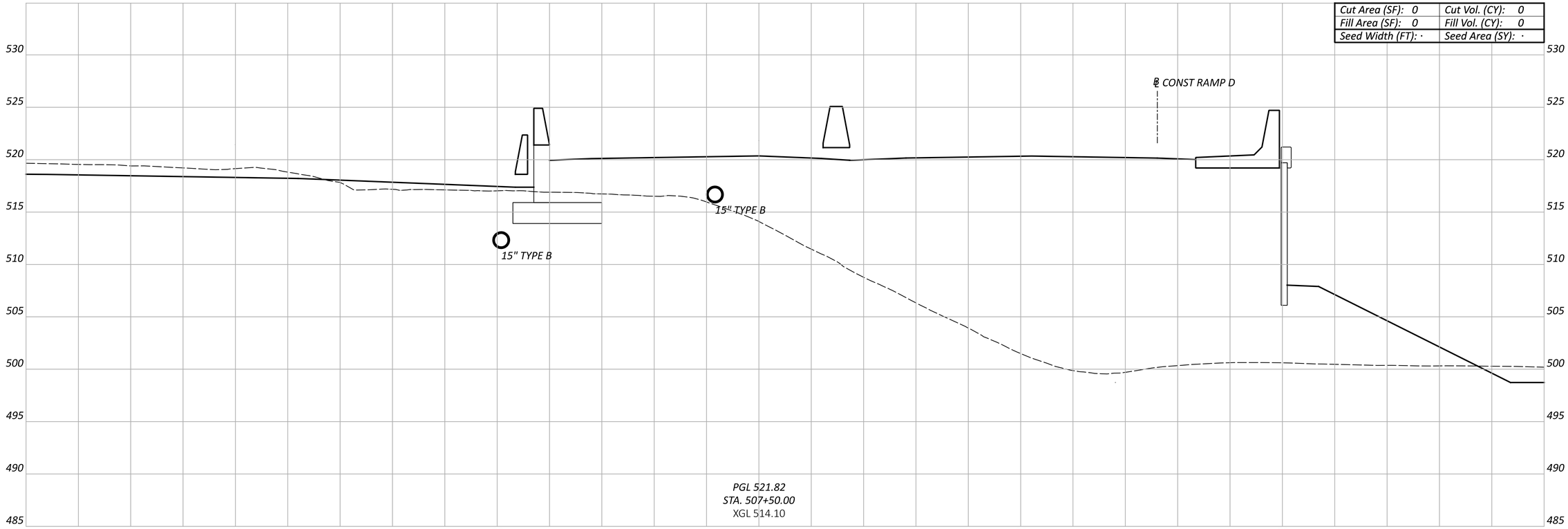
SHEET P.148 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - RAMP A
STA 507+50.00

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

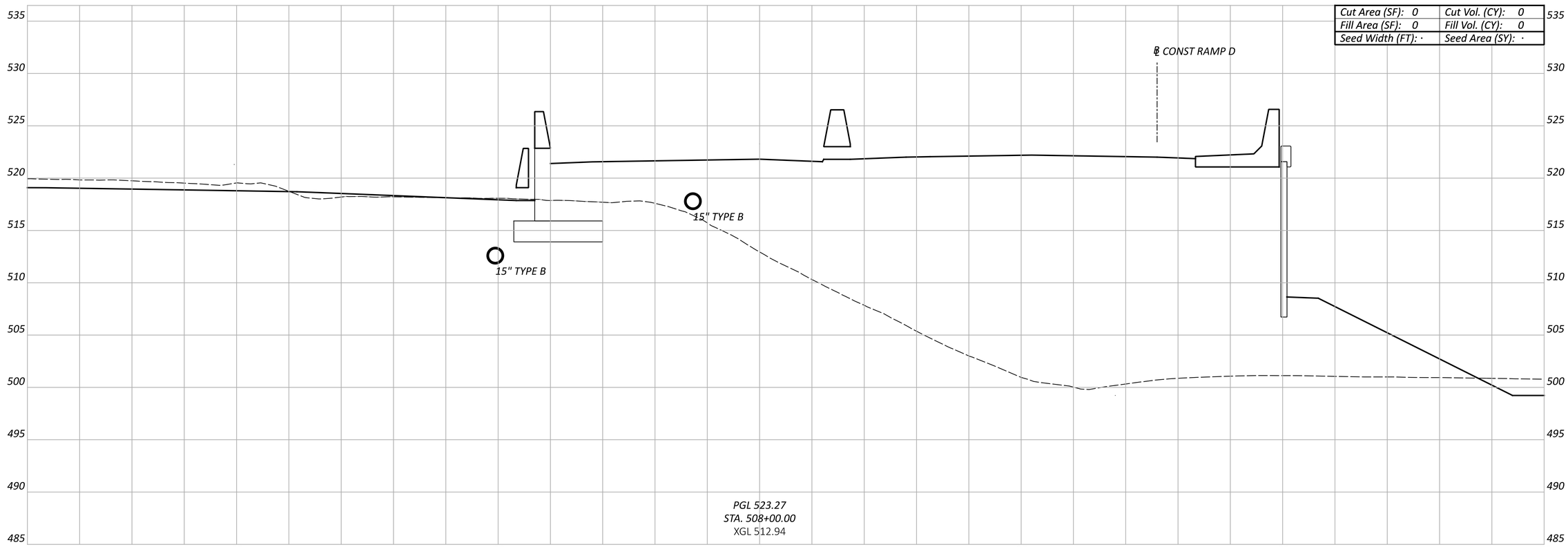
SHEET P.149 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - RAMP A
STA 508+00.00

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMHT

DESIGNER
SJB

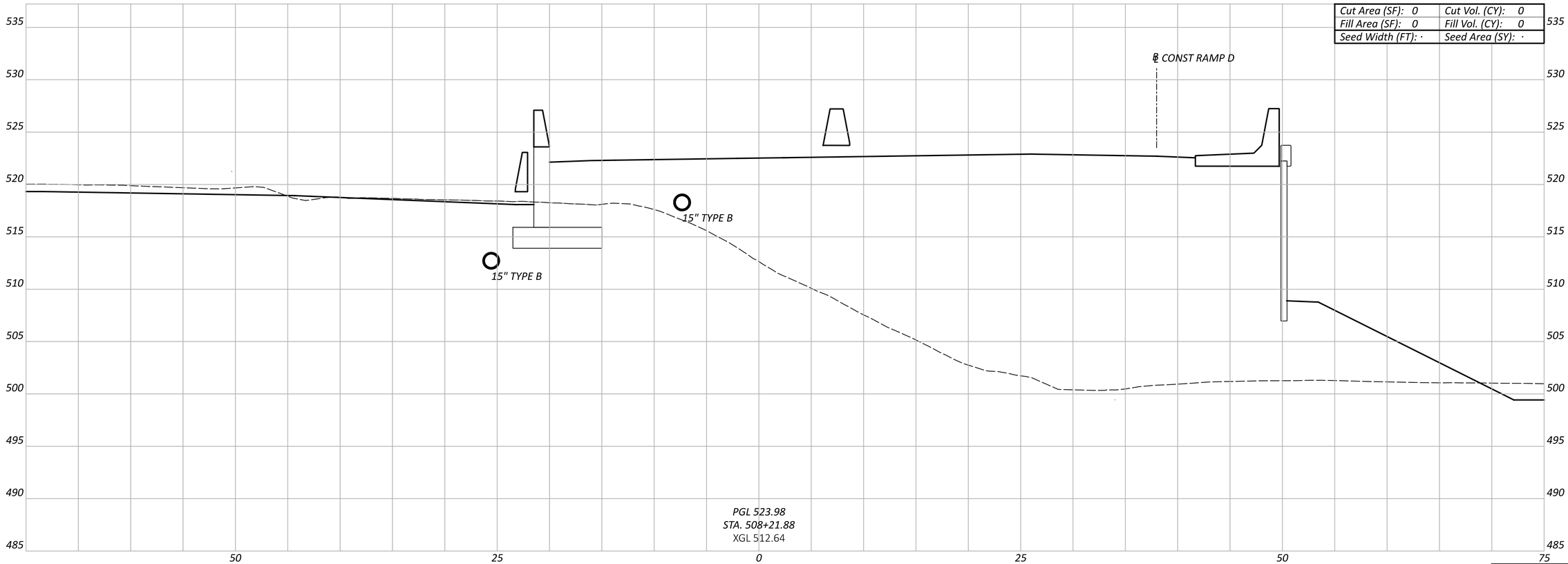
REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.150 TOTAL 463

HAM-75-1.95

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Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - RAMP A
STA 508+21.88

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.151 TOTAL 463

Cut Area (SF): 0	Cut Vol. (CY): 0
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℄ CONST RAMP G

EX. TELECOM

18" TYPE C

PGL 525.76
STA. 8+00.00
XGL 505.02

535 530 525 520 515 510 505 500 495 490 485 480

50 25 0 25 50 75

CROSS SECTIONS - RAMP B
STA 8+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.152 TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP B - 8+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:17:50 PM USER: sbeal
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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

℄ CONST RAMP G

EX. TELECOM

18" TYPE C

PGL 525.46
STA. 8+50.00
XGL 505.26

535 530 525 520 515 510 505 500 495 490 485 480

50 25 0 25 50 75

Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - RAMP B
STA 8+50.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.153 TOTAL 463

HAM-75-1.95

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

℄ CONST RAMP G

18" TYPE B

15" TYPE B

EX. TELECOM

PGL 525.19
STA. 9+00.00
XGL 505.27

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50 25 0 25 50 75

Sheet Totals		
Seeding	Cut	Fill
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CROSS SECTIONS - RAMP B
STA 9+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

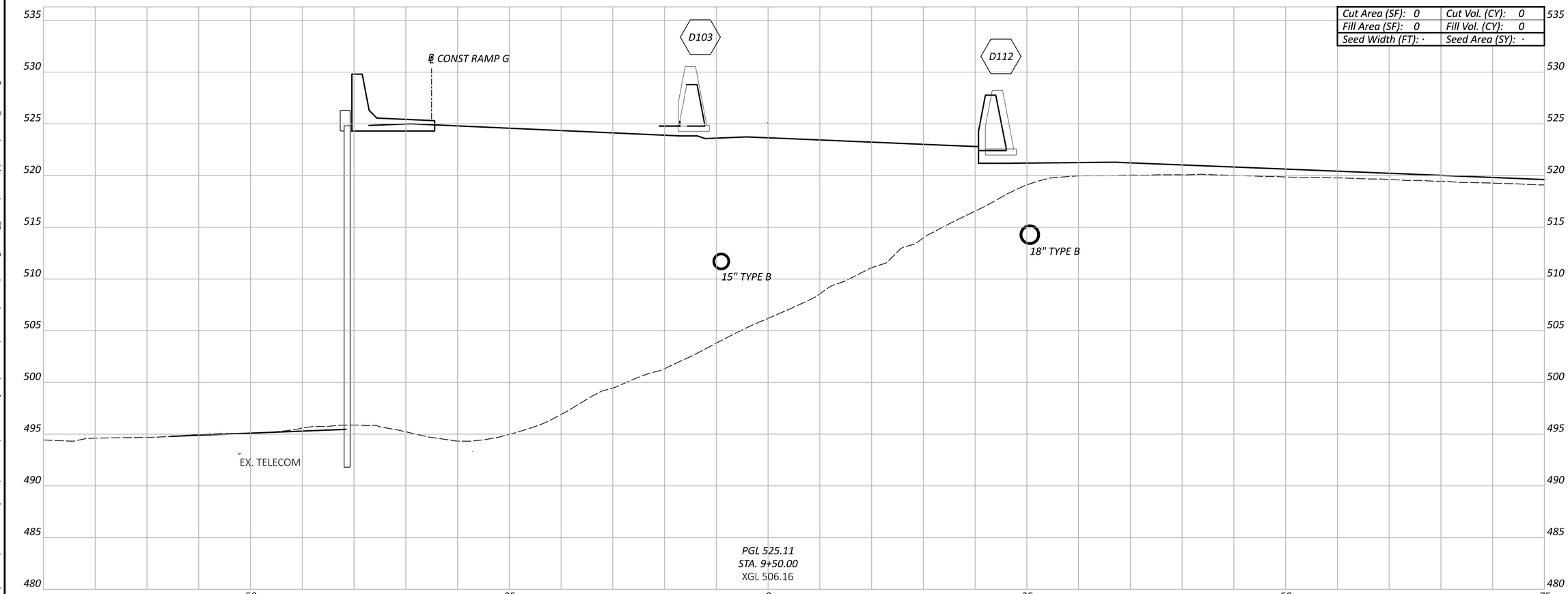
PROJECT ID
114161

SHEET P.154 TOTAL 463

HAM-75-1.95

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Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
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HAM-75-1.95

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CROSS SECTIONS - RAMP B
STA 9+50.00

DESIGN AGENCY
EMH&T

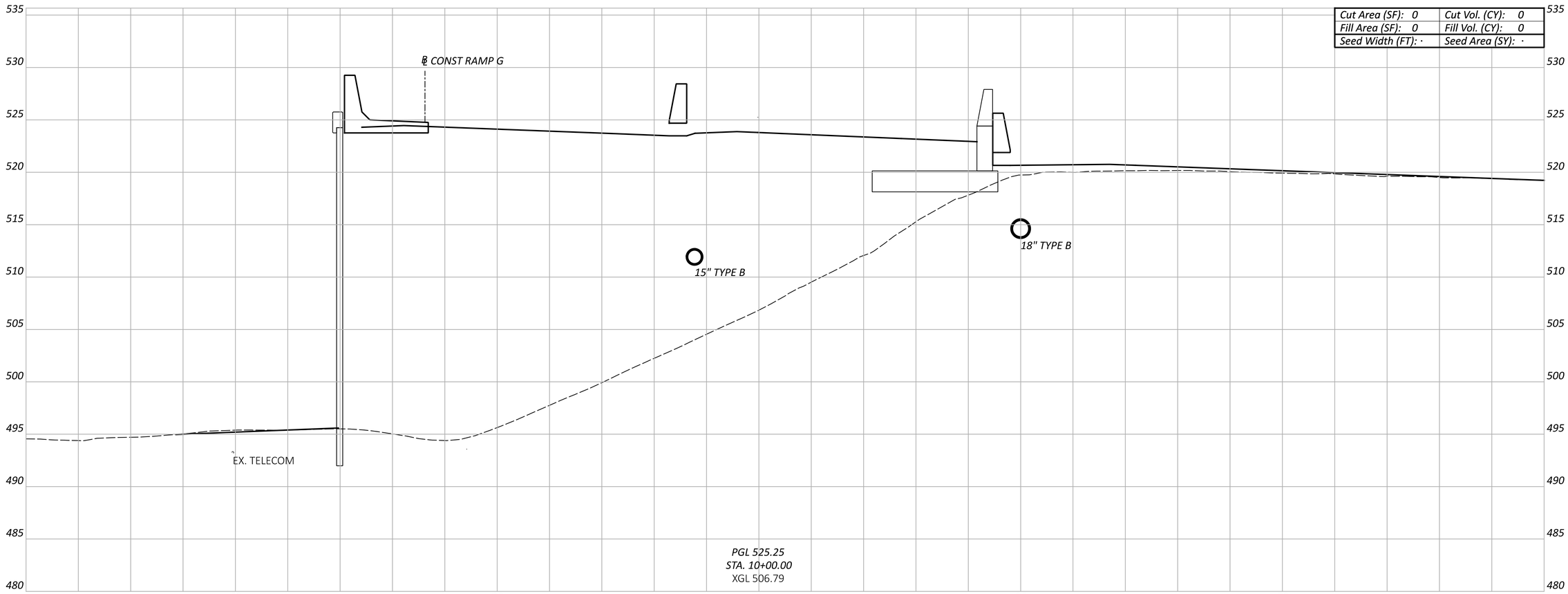
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.155 | TOTAL 463

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Sheet Totals		
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HAM-75-1.95

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CROSS SECTIONS - RAMP B
STA 10+00.00

DESIGN AGENCY
EMH&T

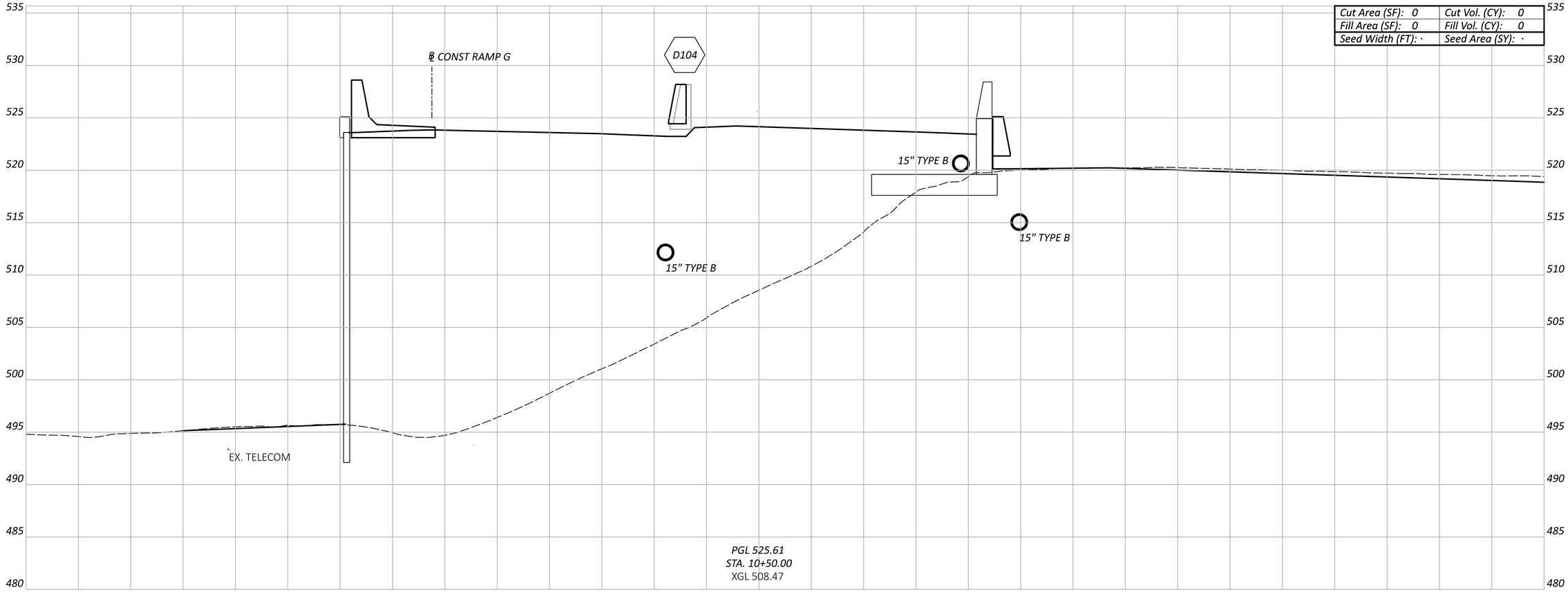
DESIGNER
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REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.156 | TOTAL 463

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Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
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HAM-75-1.95

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CROSS SECTIONS - RAMP B
STA 10+50.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.157 | TOTAL 463

Cut Area (SF): 0	Cut Vol. (CY): 0
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Seed Width (FT): ·	Seed Area (SY): ·

℄ CONST RAMP G

15" TYPE B

15" TYPE B

15" TYPE B

PGL 526.20
STA. 11+00.00
XGL 509.45

535 530 525 520 515 510 505 500 495 490 485 480

50 25 0 25 50 75

CROSS SECTIONS - RAMP B
STA 11+00.00.

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

Sheet Totals		
Seeding	Cut	Fill
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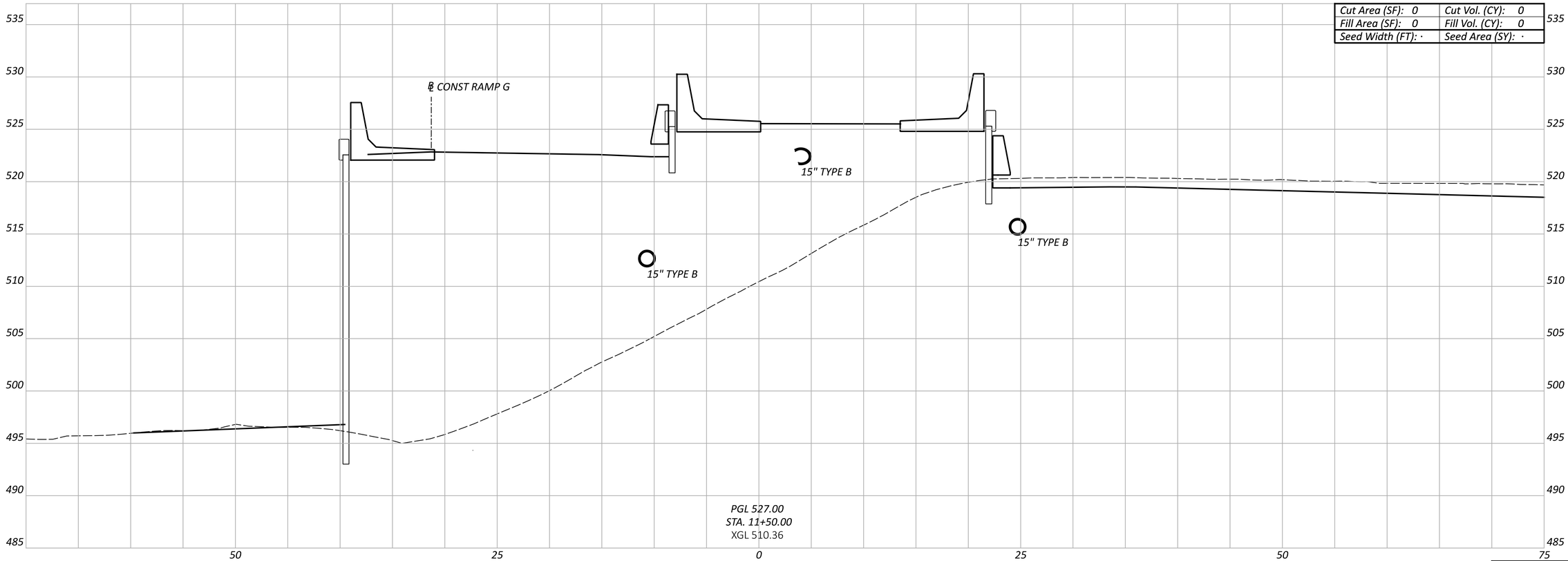
SHEET P.158 TOTAL 463

HAM-75-1.95

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HAM-75-1.95



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

Sheet Totals		
Seeding	Cut	Fill
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CROSS SECTIONS - RAMP B
STA 11+50.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

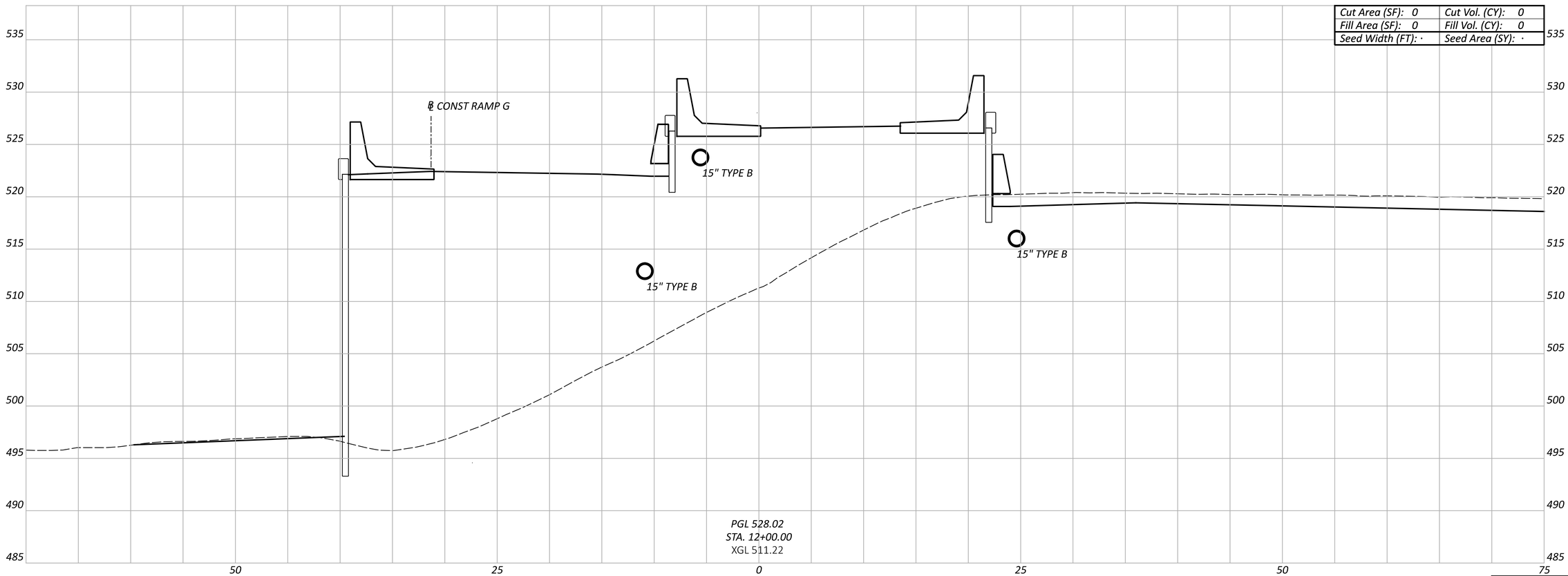
REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.159 TOTAL 463

MODEL: BLP_RAMP B - 12+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:18:21 PM USER: sbeal
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HAM-75-1.95



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - RAMP B
STA 12+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.160 TOTAL 463

Cut Area (SF): 0	Cut Vol. (CY): 0
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Seed Width (FT): ·	Seed Area (SY): ·

℄ CONST RAMP G

15" TYPE B

15" TYPE B

PGL 529.26
STA. 12+50.00
XGL 512.08

535 530 525 520 515 510 505 500 495 490 485

50 25 0 25 50 75

Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - RAMP B
STA 12+50.00

DESIGN AGENCY
EM H&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.161 | TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP B - 12+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:18:23 PM USER: sbeal
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Seed Width (FT): ·	Seed Area (SY): ·

℄ CONST RAMP G

15" TYPE B

15" TYPE B

PGL 530.72
STA. 13+00.00
XGL 513.27

540 535 530 525 520 515 510 505 500 495 490 485

50 25 0 25 50 75

CROSS SECTIONS - RAMP B
STA 13+00.00

DESIGN AGENCY
EM H&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

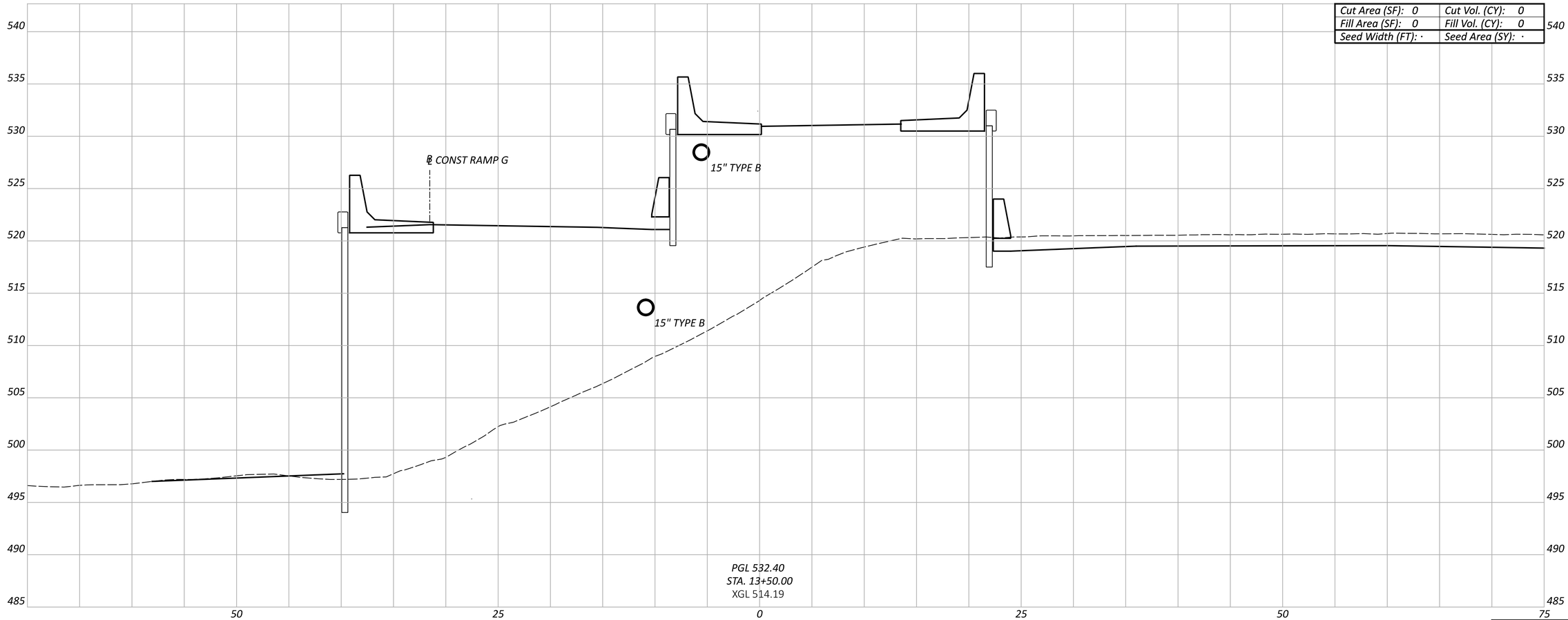
PROJECT ID
114161

Sheet Totals		
Seeding	Cut	Fill
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SHEET P.162 | TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP B - 13+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:18:26 PM USER: sbeal
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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

Sheet Totals		
Seeding	Cut	Fill
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CROSS SECTIONS - RAMP B
STA 13+50.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

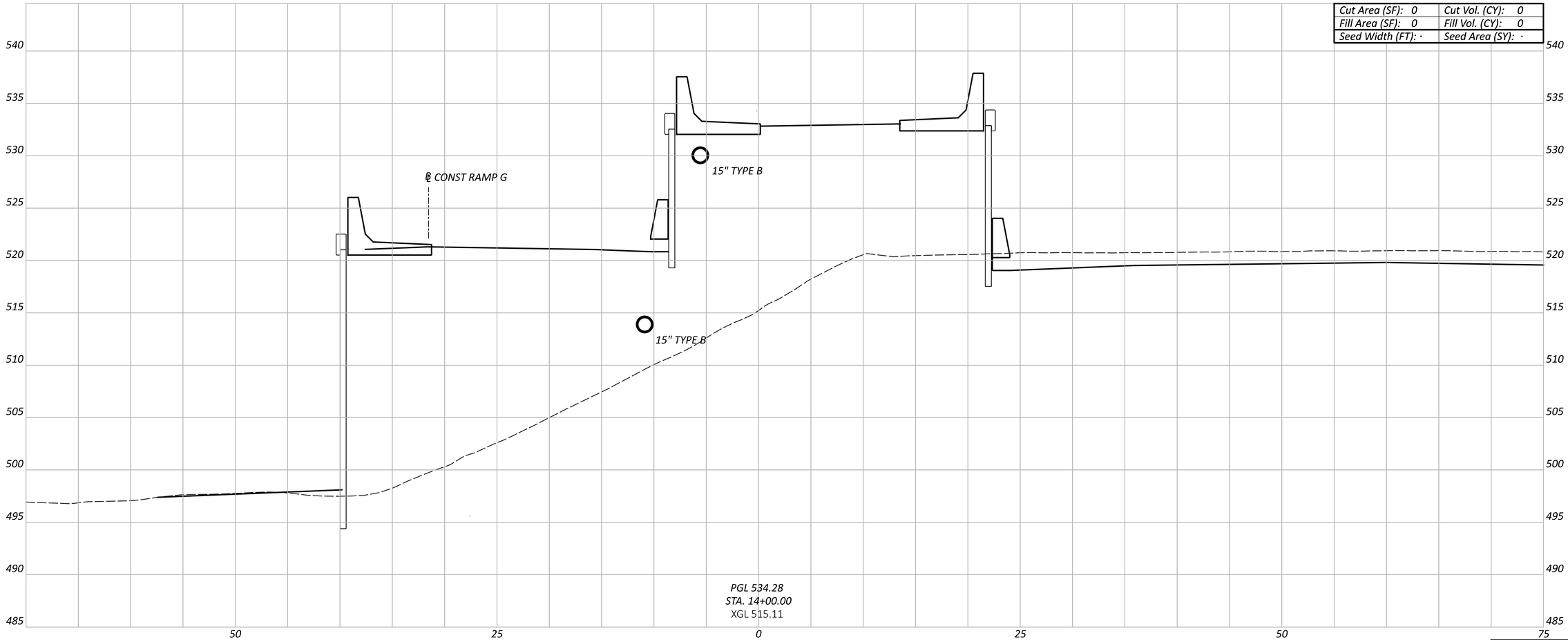
PROJECT ID
114161

SHEET P.163 | TOTAL 463

HAM-75-1.95

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
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CROSS SECTIONS - RAMP B
STA 14+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

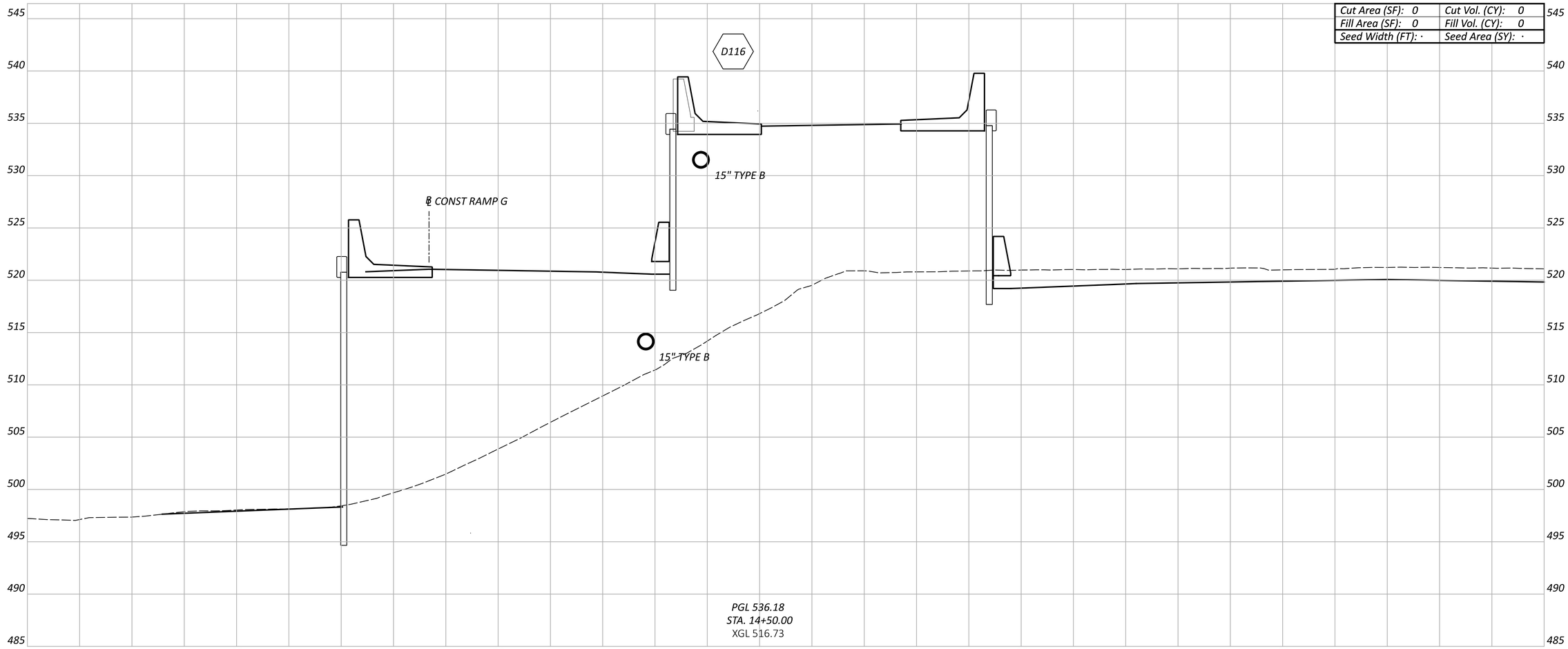
REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.164 | TOTAL 463

HAM-75-1.95

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Seed Width (FT): ·	Seed Area (SY): ·

CROSS SECTIONS - RAMP B
STA 14+50.00

HAM-75-1.95

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Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

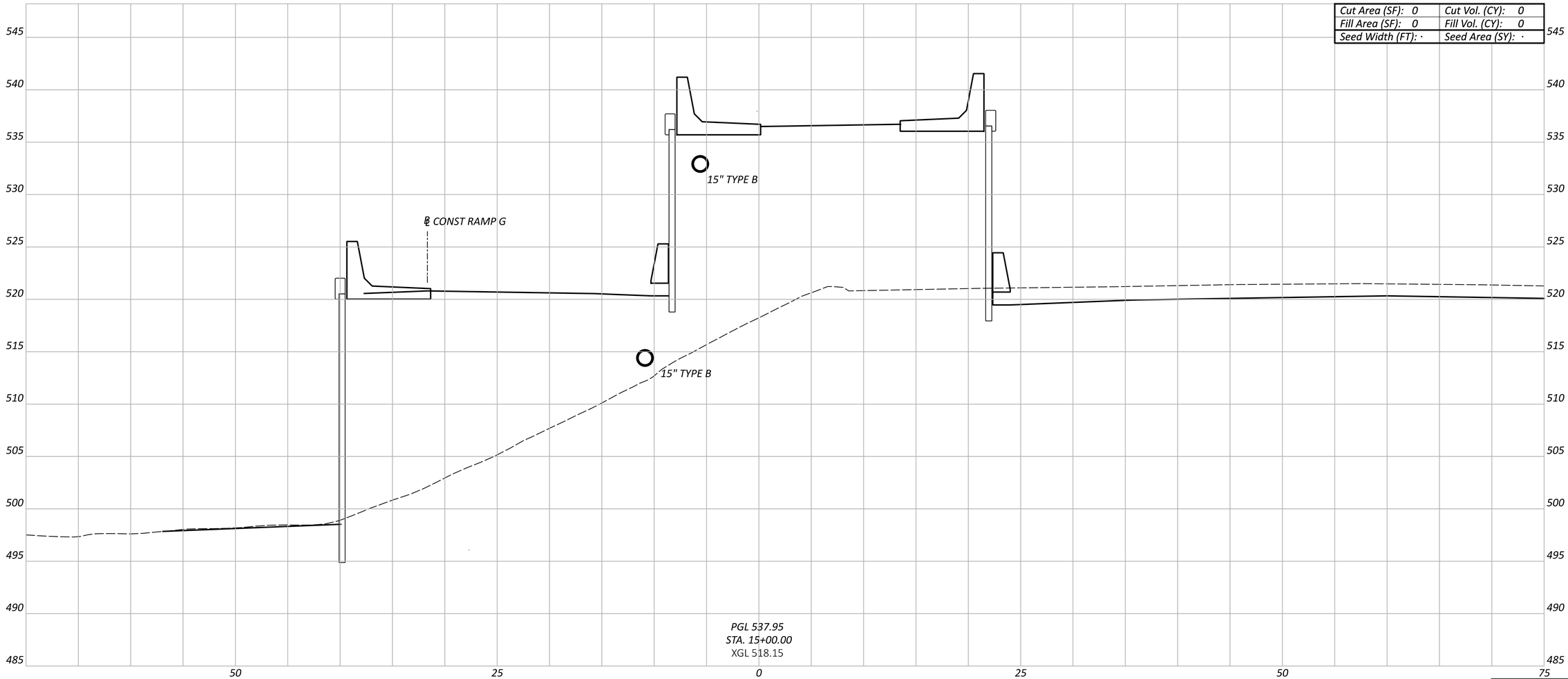
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.165 TOTAL 463

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
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HAM-75-1.95

MODEL: BLP_RAMP B - 15+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:18:42 PM USER: sbeal
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CROSS SECTIONS - RAMP B
STA 15+00.00

DESIGN AGENCY
EMH&T

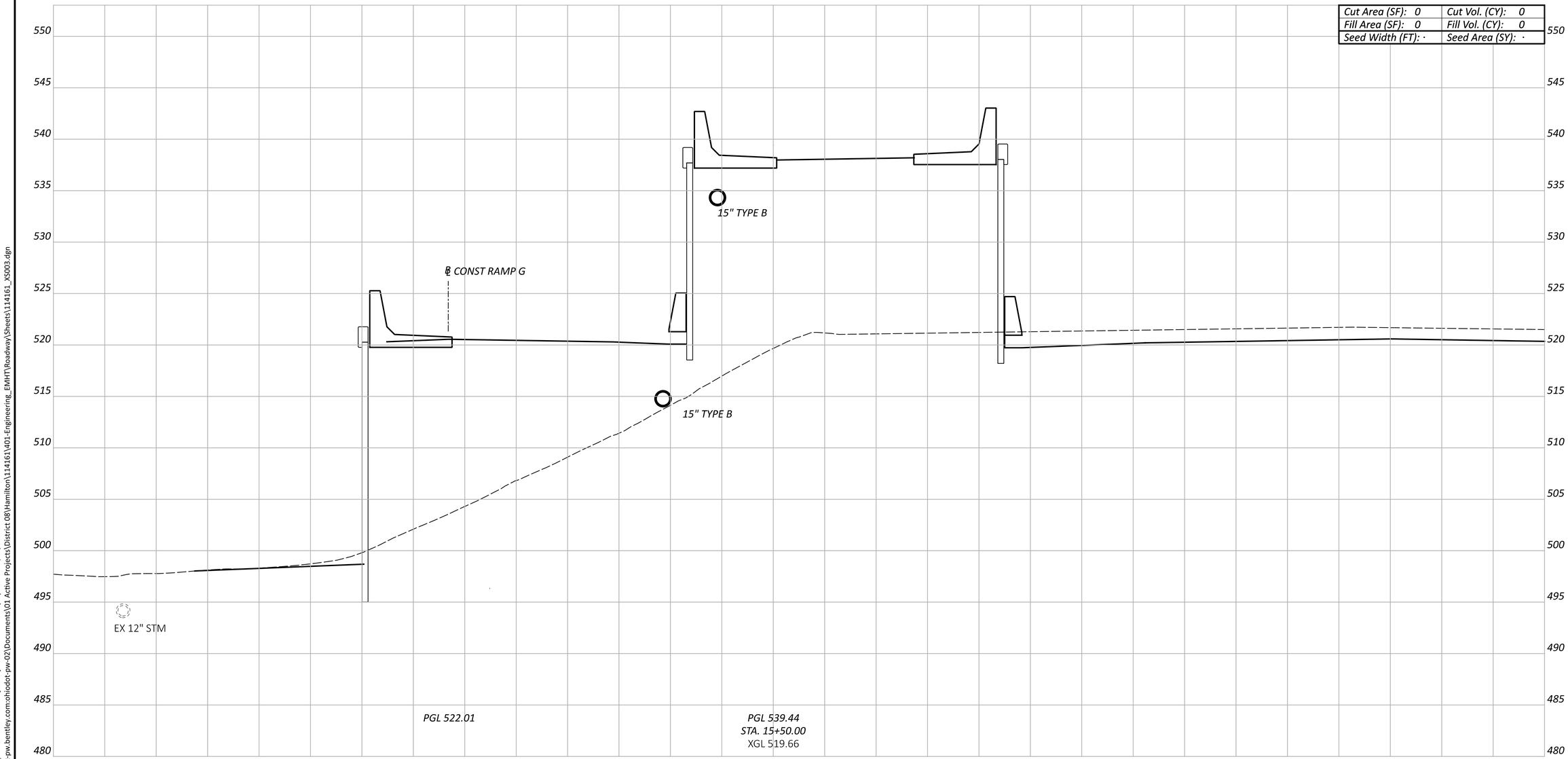
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET	TOTAL
P.166	463

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



CROSS SECTIONS - RAMP B
STA 15+50.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

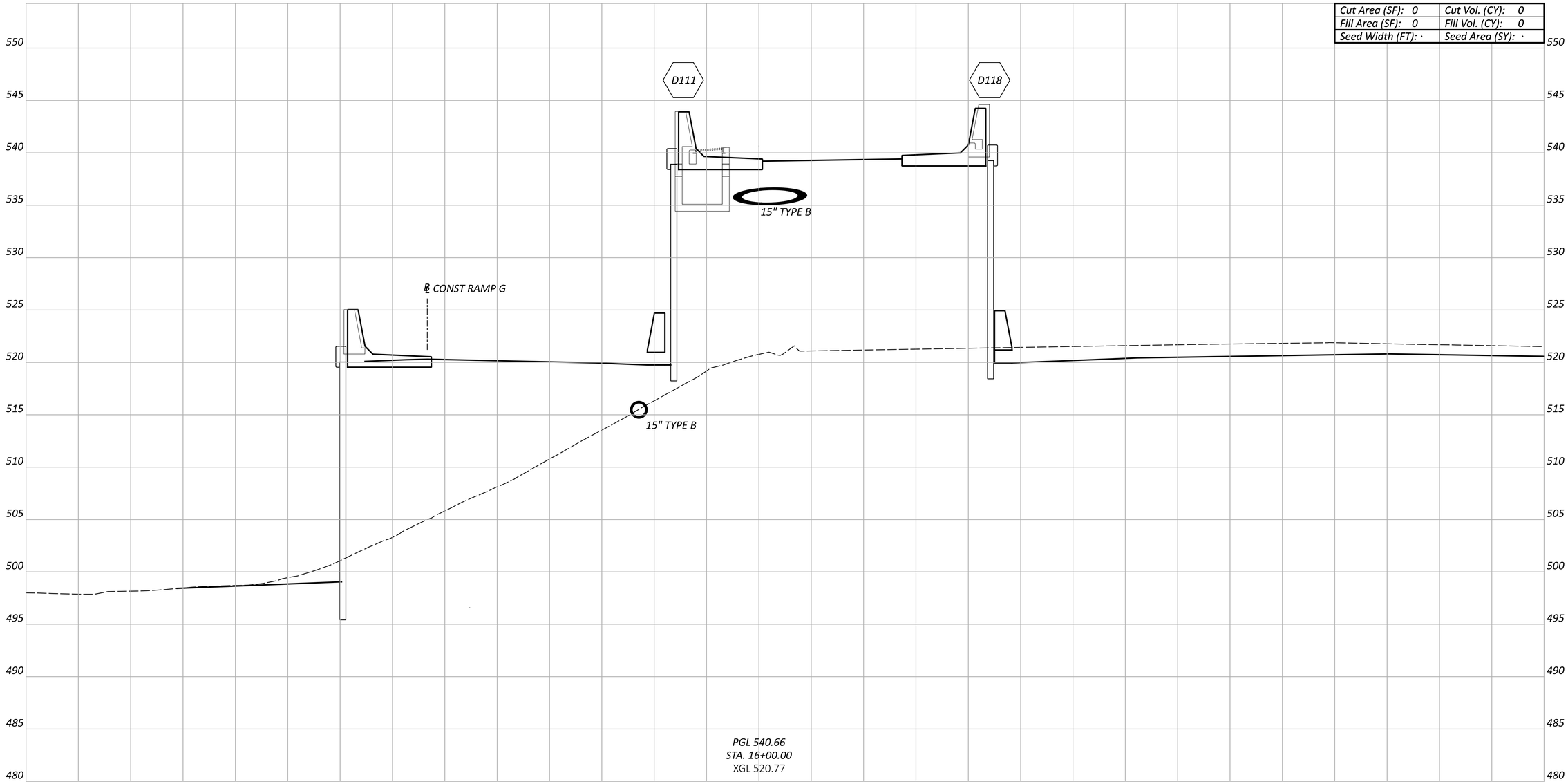
Sheet Totals		
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SHEET P.167 TOTAL 463

HAM-75-1.95

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



CROSS SECTIONS - RAMP B
STA 16+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

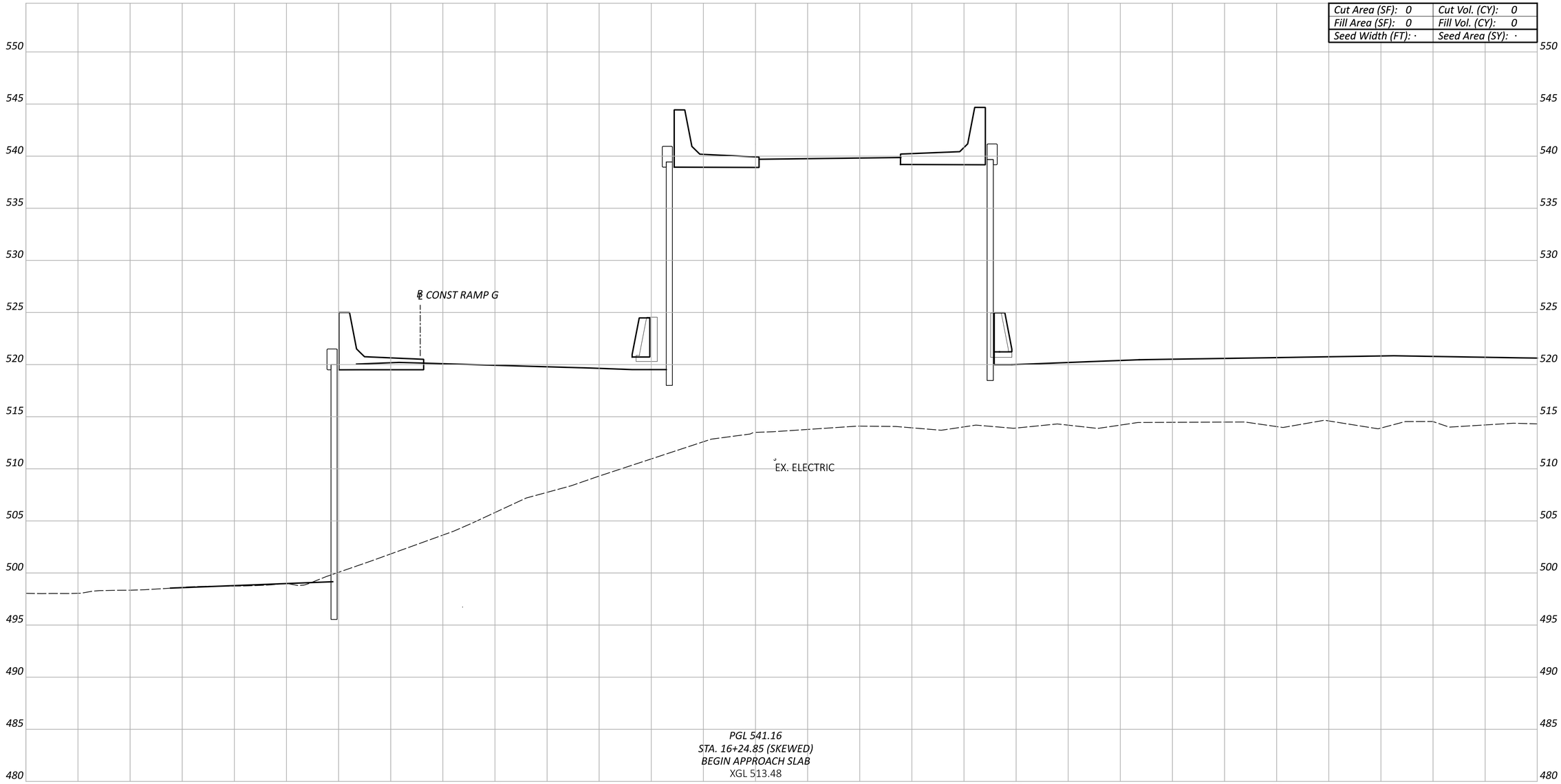
Sheet Totals		
Seeding	Cut	Fill
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SHEET P.168 | TOTAL 463

HAM-75-1.95

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Seed Width (FT): ·	Seed Area (SY): ·



CROSS SECTIONS - RAMP B
STA 16+24.85

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

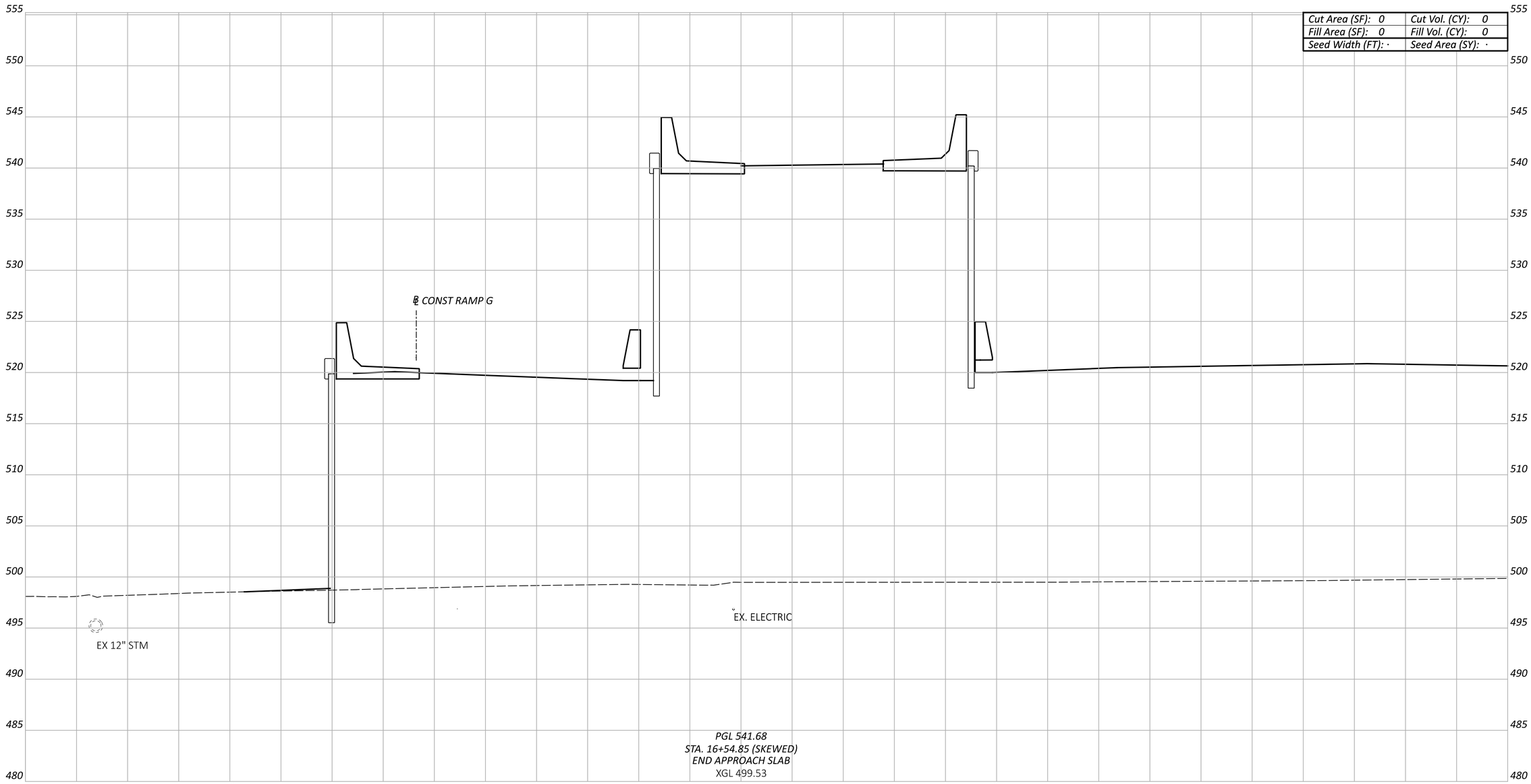
Sheet Totals		
Seeding	Cut	Fill
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SHEET P.169 | TOTAL 463

HAM-75-1.95

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



CROSS SECTIONS - RAMP B
STA 16+54.85

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.170 TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP B - 16+54.85 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:19:02 PM USER: sbeal
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Seed Width (FT): ·	Seed Area (SY): ·

555 550 545 540 535 530 525 520 515 510 505 500 495 490 485

75 50 25 0 25 50

PGL 544.58
STA. 50+43.19 (SKEWED)
BEGIN APPROACH SLAB
XGL 509.51

CROSS SECTIONS - RAMP C
STA 50+43.19

HAM-75-1.95

MODEL: BLP_RAMP C - 50+43.19 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:19:26 PM USER: sbeal
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Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMHT

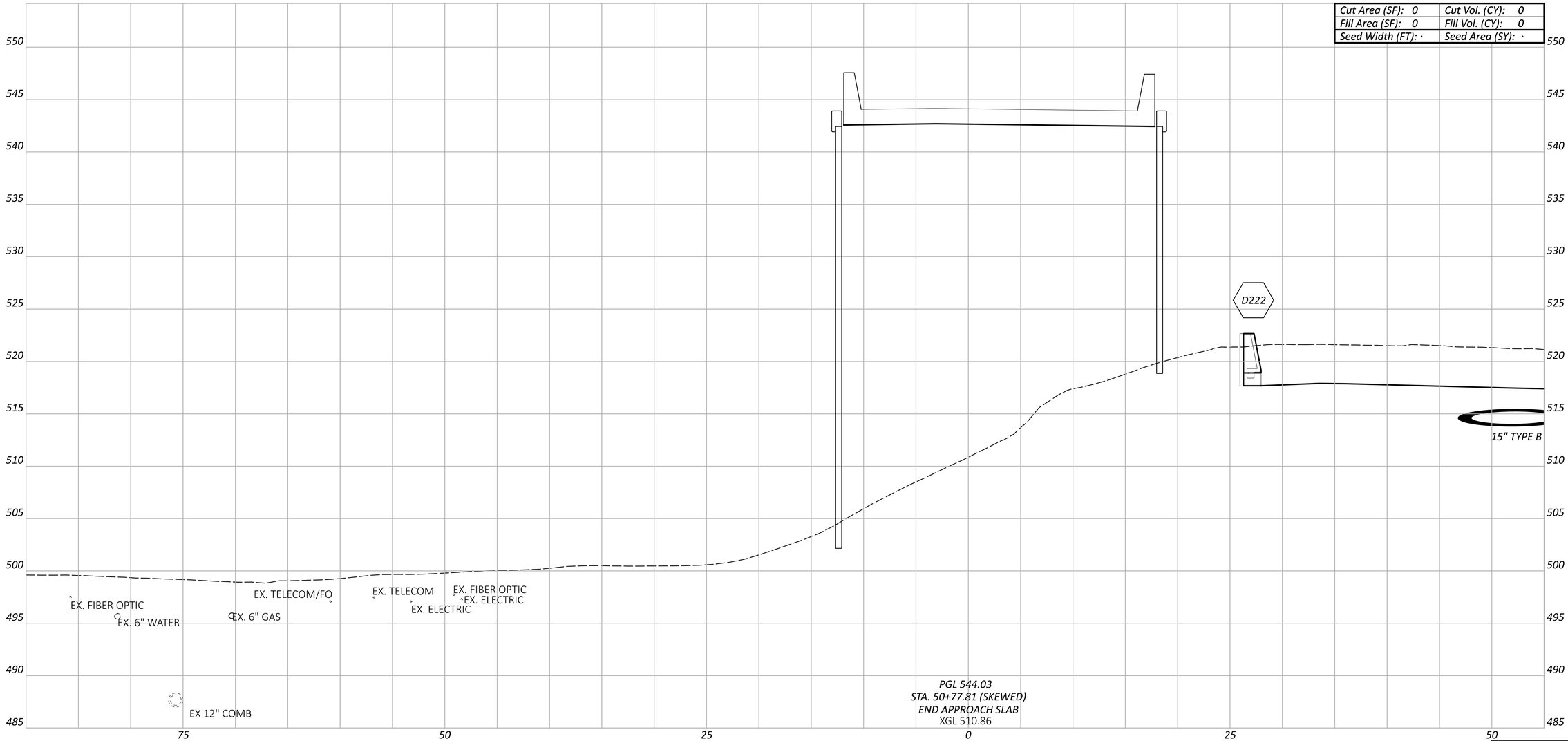
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.171 TOTAL 463

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



HAM-75-1.95

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CROSS SECTIONS - RAMP C
STA 50+77.81

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMHT

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET	TOTAL
P.172	463

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



CROSS SECTIONS - RAMP C
STA 51+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

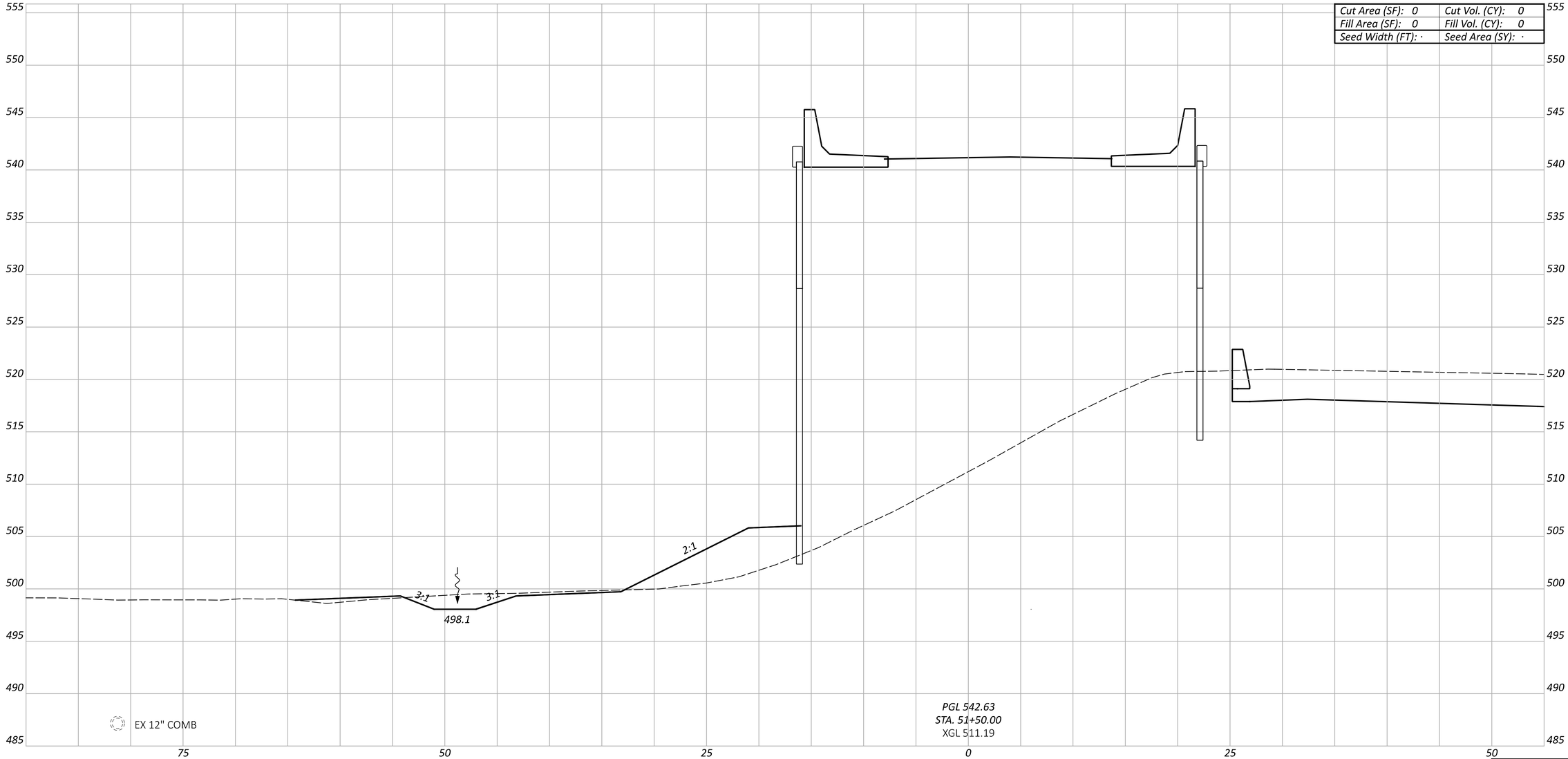
PROJECT ID
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SHEET P.173 TOTAL 463

HAM-75-1.95

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HAM-75-1.95

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CROSS SECTIONS - RAMP C
STA 51+50.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

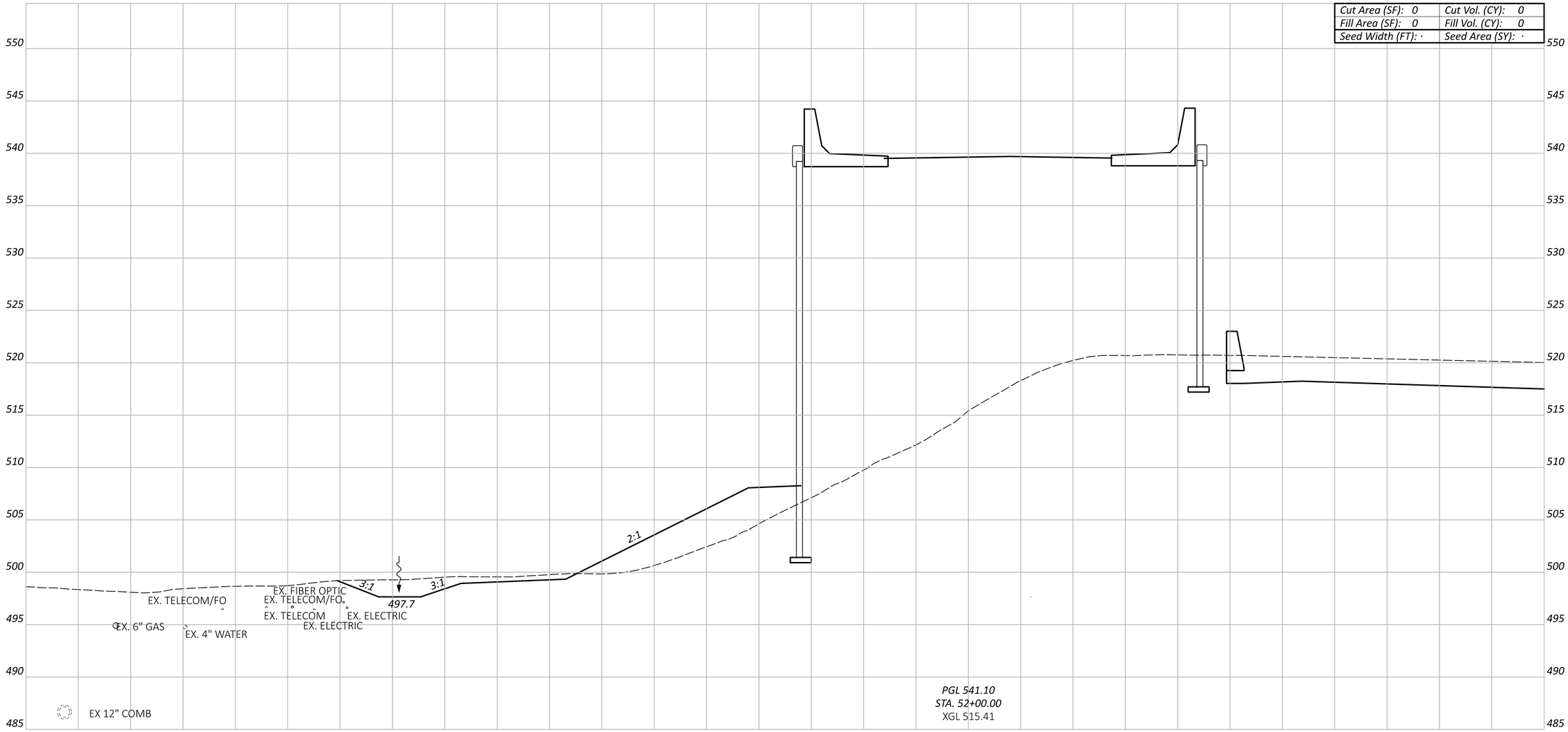
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.174 TOTAL 463

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Seed Width (FT): ·	Seed Area (SY): ·



CROSS SECTIONS - RAMP C
STA 52+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

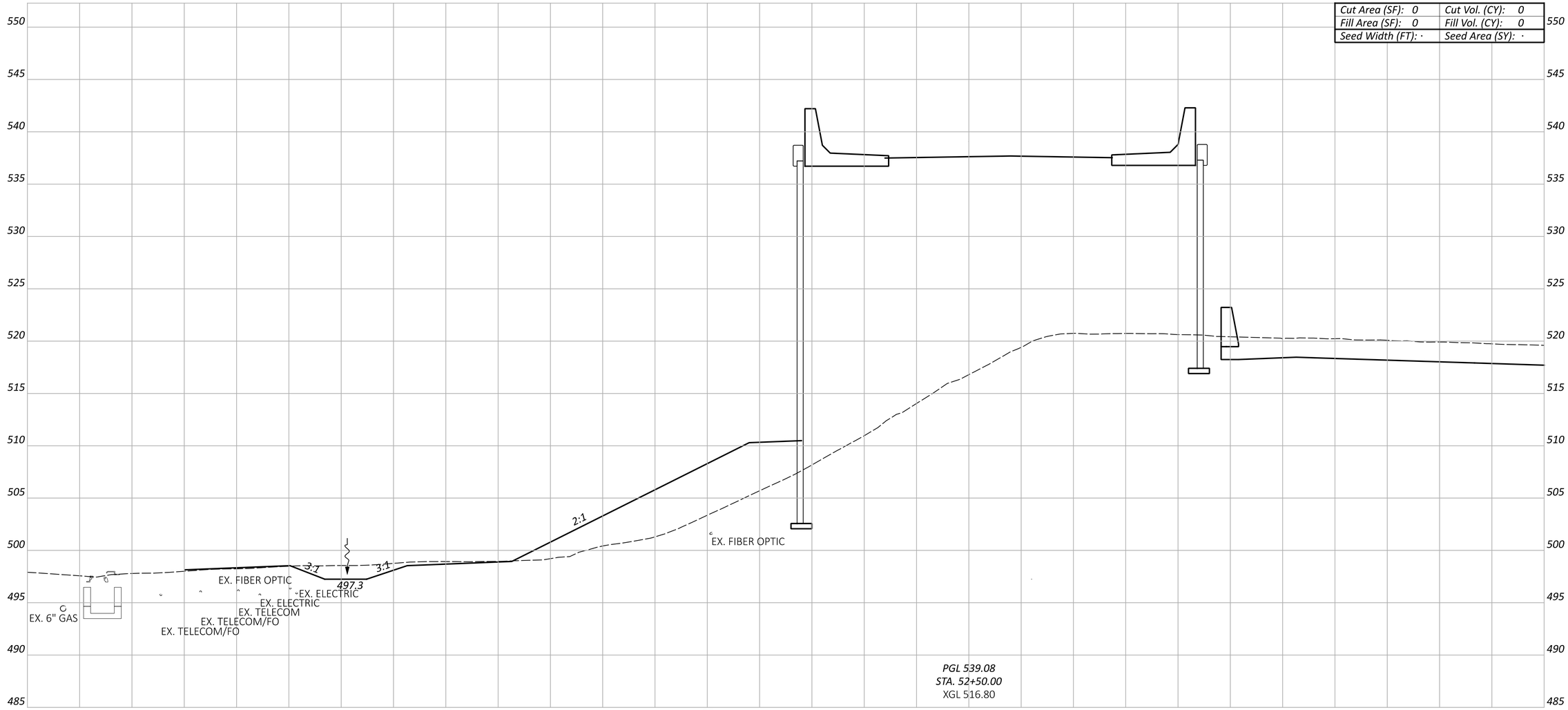
PROJECT ID
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SHEET P.175 | TOTAL 463

HAM-75-1.95

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Seed Width (FT): ·	Seed Area (SY): ·



CROSS SECTIONS - RAMP C
STA 52+50.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

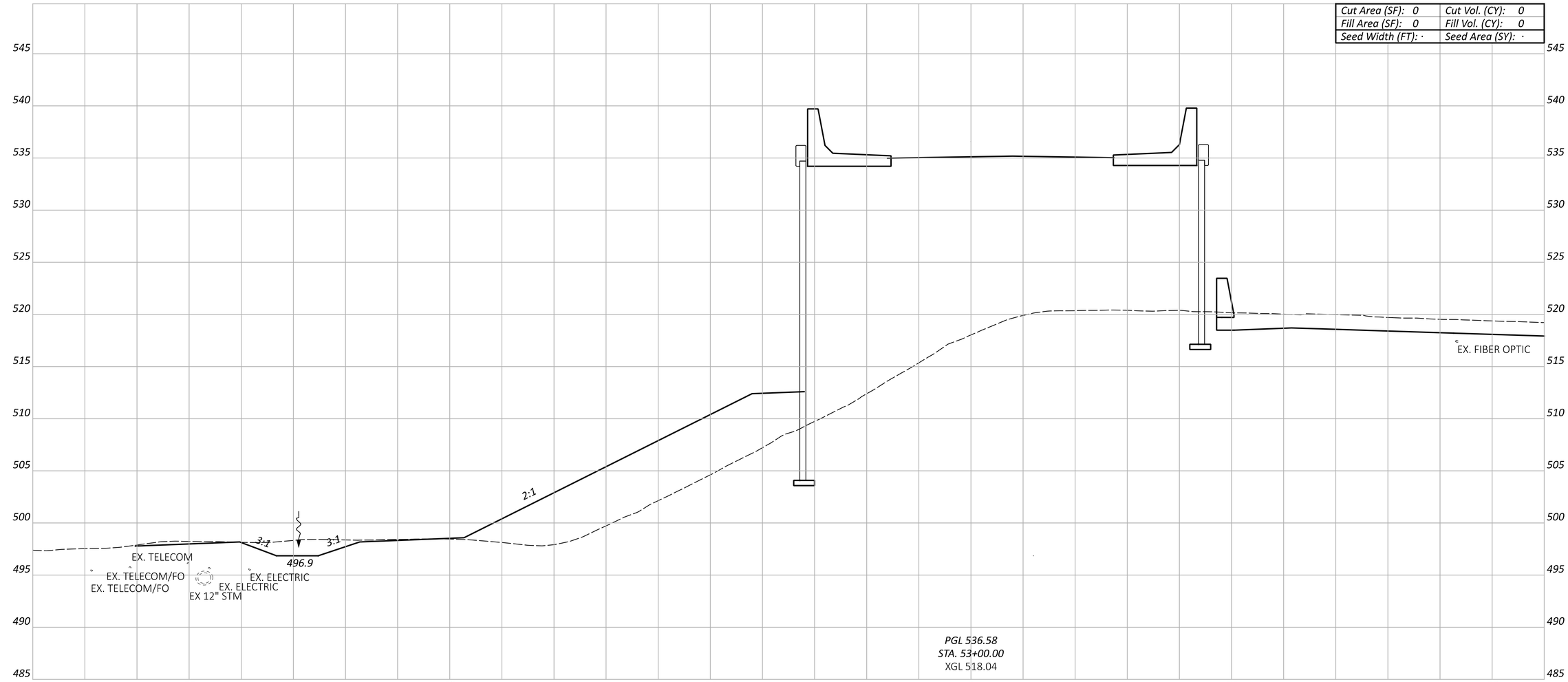
PROJECT ID
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SHEET P.176 TOTAL 463

HAM-75-1.95

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
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CROSS SECTIONS - RAMP C
STA 53+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

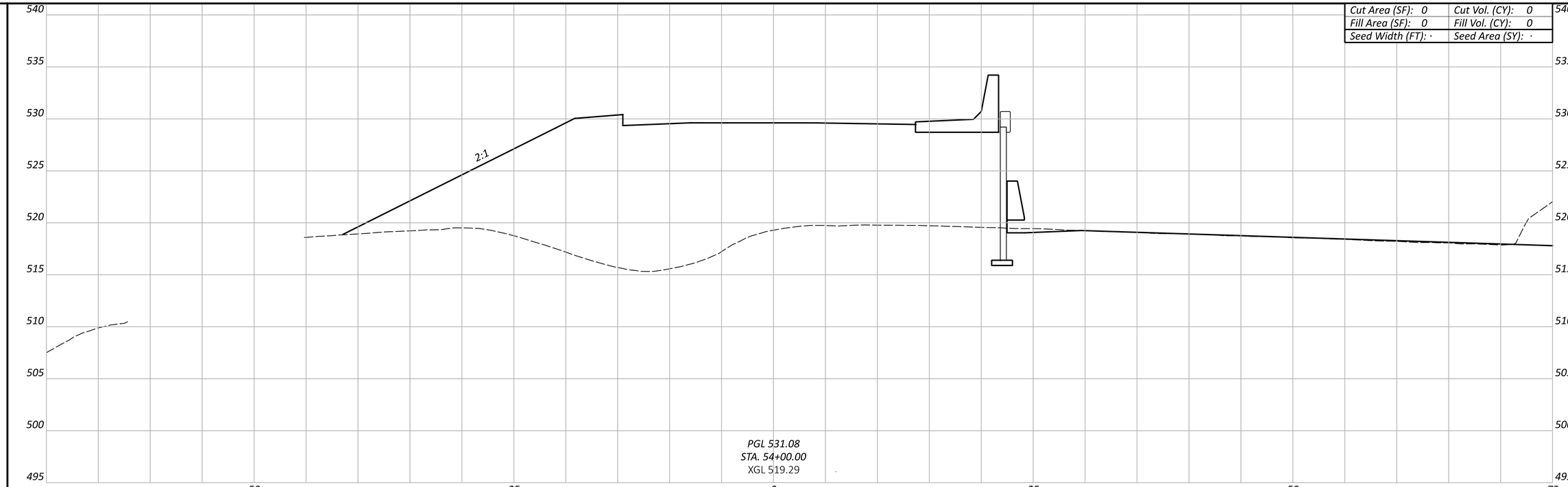
REVIEWER
MJR 06/21/24

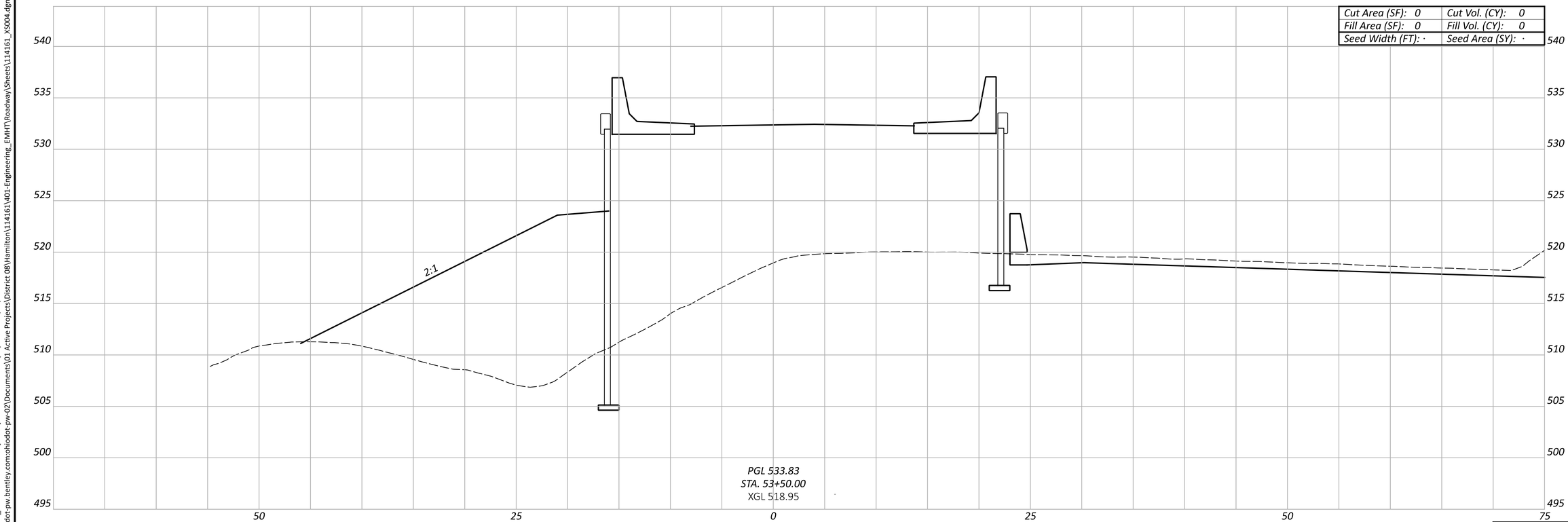
PROJECT ID
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SHEET P.177 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - RAMP C
STA 53+50.00 TO STA 54+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

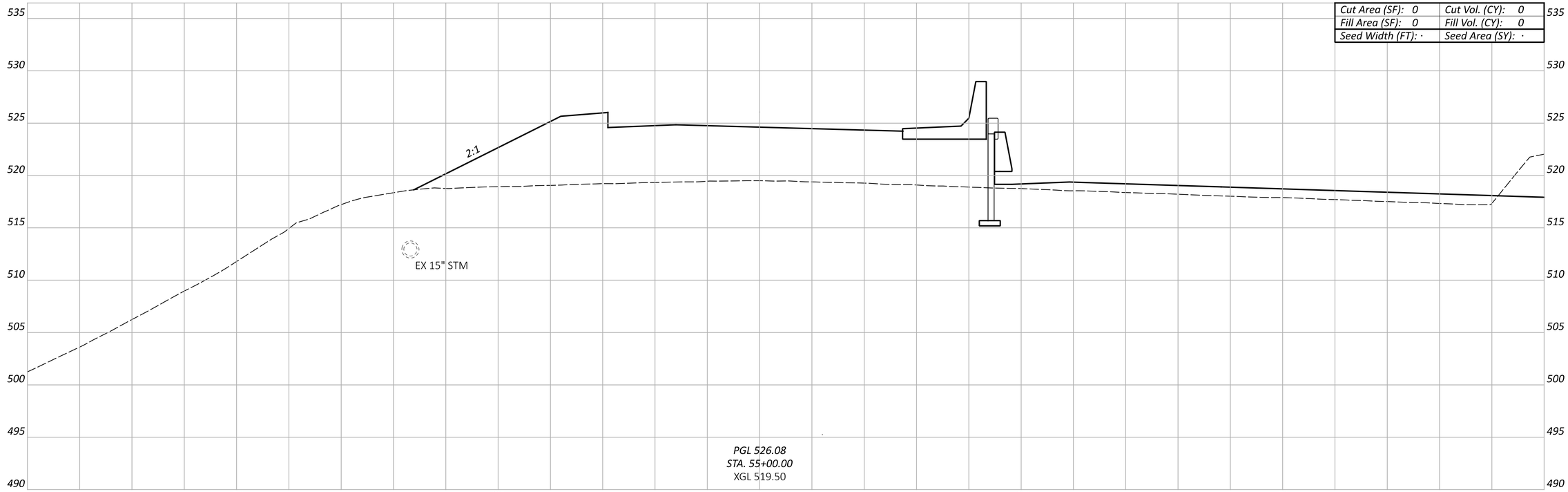
REVIEWER
MJR 06/21/24

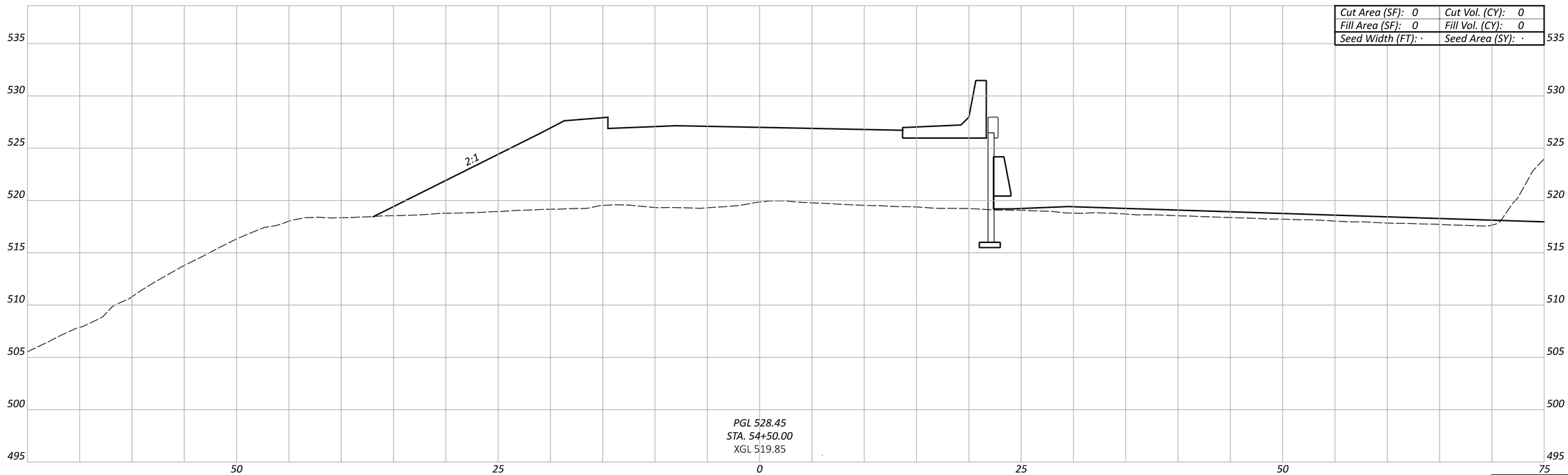
PROJECT ID
114161

SHEET	TOTAL
P.178	463

HAM-75-1.95

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CROSS SECTIONS - RAMP C
STA 54+50.00 TO STA 55+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

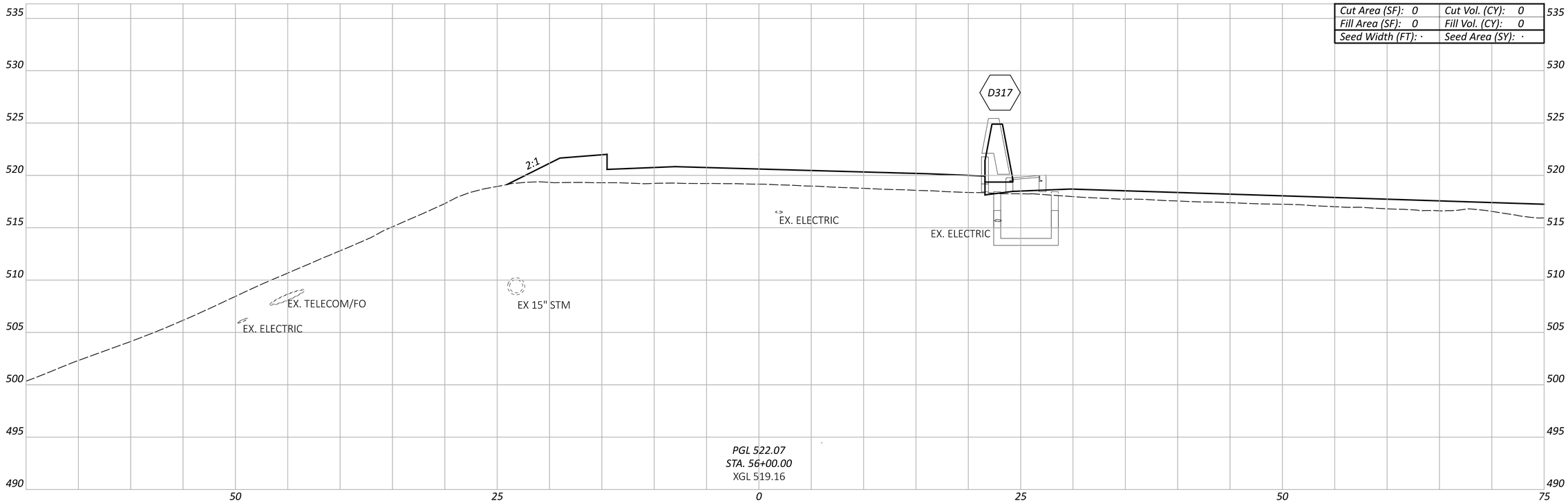
REVIEWER
MJR 06/21/24

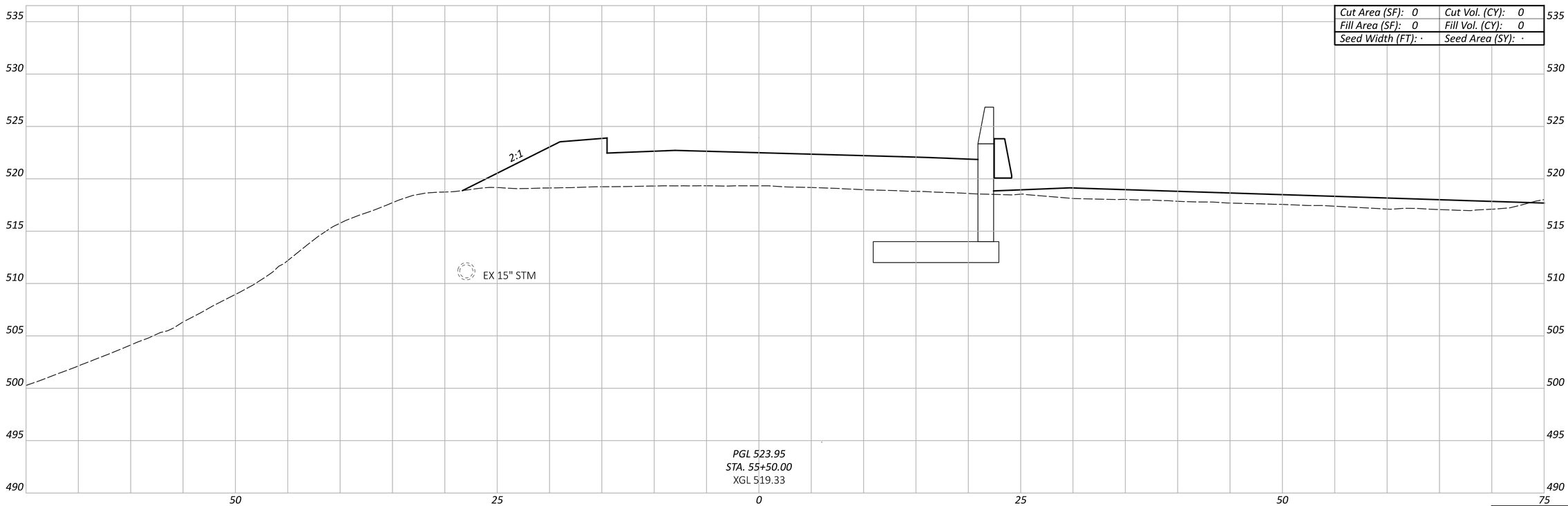
PROJECT ID
114161

SHEET P.179 | TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP C - 54+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:19:58 PM USER: sbeal
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CROSS SECTIONS - RAMP C
STA 55+50.00 TO STA 56+00.00

HAM-75-1.95

MODEL: BLP_RAMP C - 55+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:20:05 PM USER: sbeal
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Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY: EMH&T

DESIGNER: SJB

REVIEWER: MJR 06/21/24

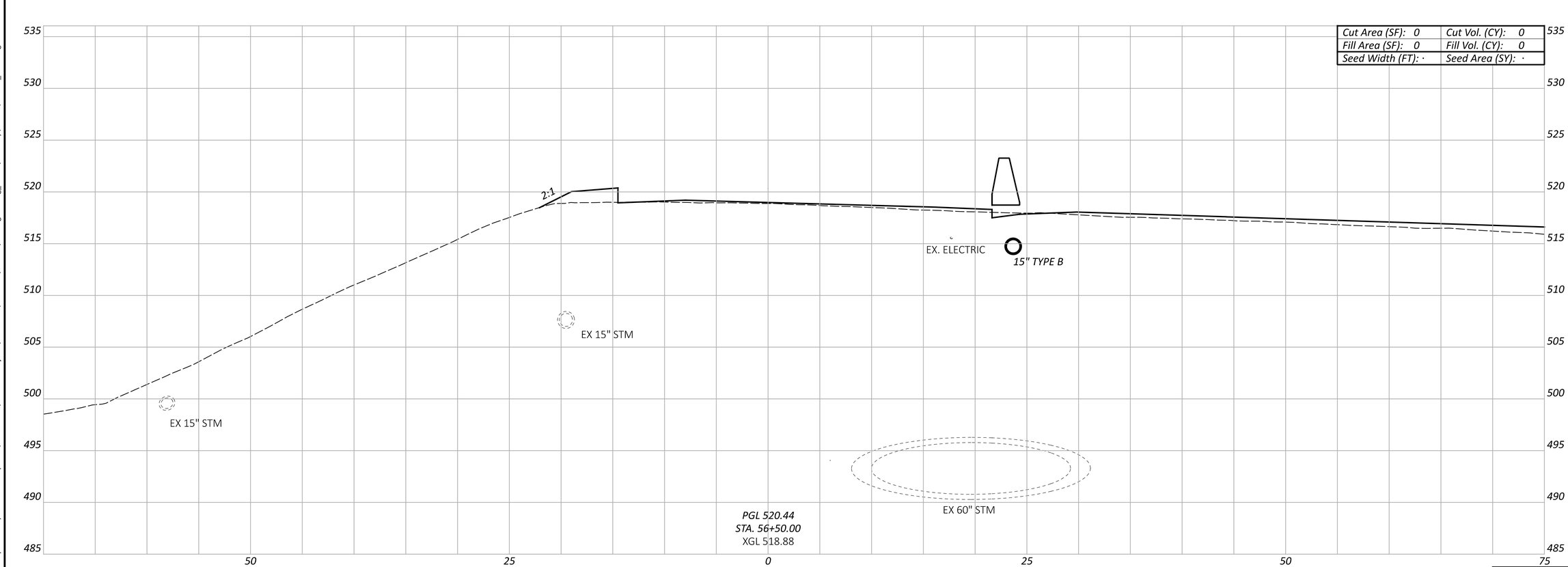
PROJECT ID: 114161

SHEET: P.180 TOTAL: 463

HAM-75-1.95

MODEL: BLP_RAMP C - 56+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:20:20 PM USER: sbeal
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CROSS SECTIONS - RAMP C
STA 56+50.00



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMHT

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET	TOTAL
P.181	463

HAM-75-1.95

MODEL: BLP_RAMP C - 57+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:20:24 PM USER: sbeal
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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - RAMP C
STA 57+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET	TOTAL
P.182	463

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

530 525 520 515 510 505 500 495 490

EX 15" STM

15" TYPE B

PGL 517.03
STA. 58+00.00
XGL 517.83

50 25 0 25 50 75

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

535 530 525 520 515 510 505 500 495 490 485

D316

2:1

EX 15" STM

15" TYPE B

PGL 517.92
STA. 57+50.00
XGL 518.24

50 25 0 25 50 75

Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - RAMP C
STA 57+50.00 TO STA 58+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET	TOTAL
P.183	463

HAM-75-1.95

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HAM-75-1.95

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

530 525 520 515 510 505 500 495 490 485

50 25 0 25 50 75

2:1

EX 15" STM

15" TYPE B

PGL 516.40
STA. 58+50.00
XGL 517.43

Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - RAMP C
STA 58+50.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

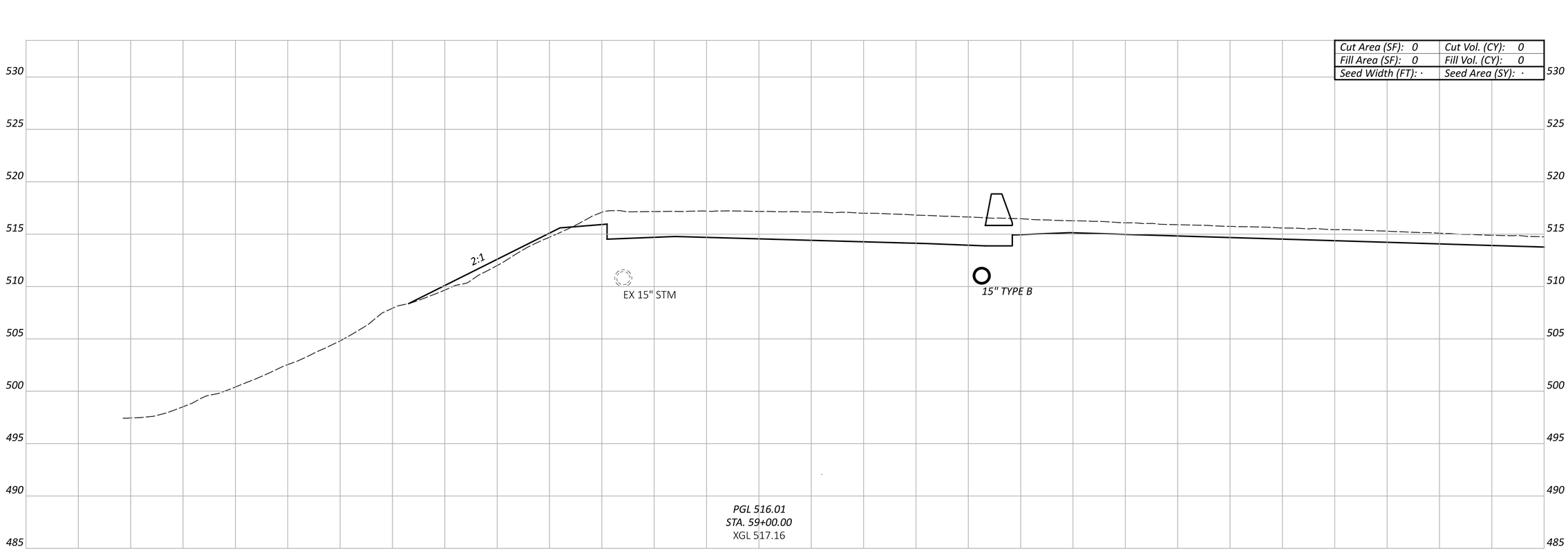
PROJECT ID
114161

SHEET P.184 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - RAMP C
STA 59+00.00



Sheet Totals		
Seeding	Cut	Fill
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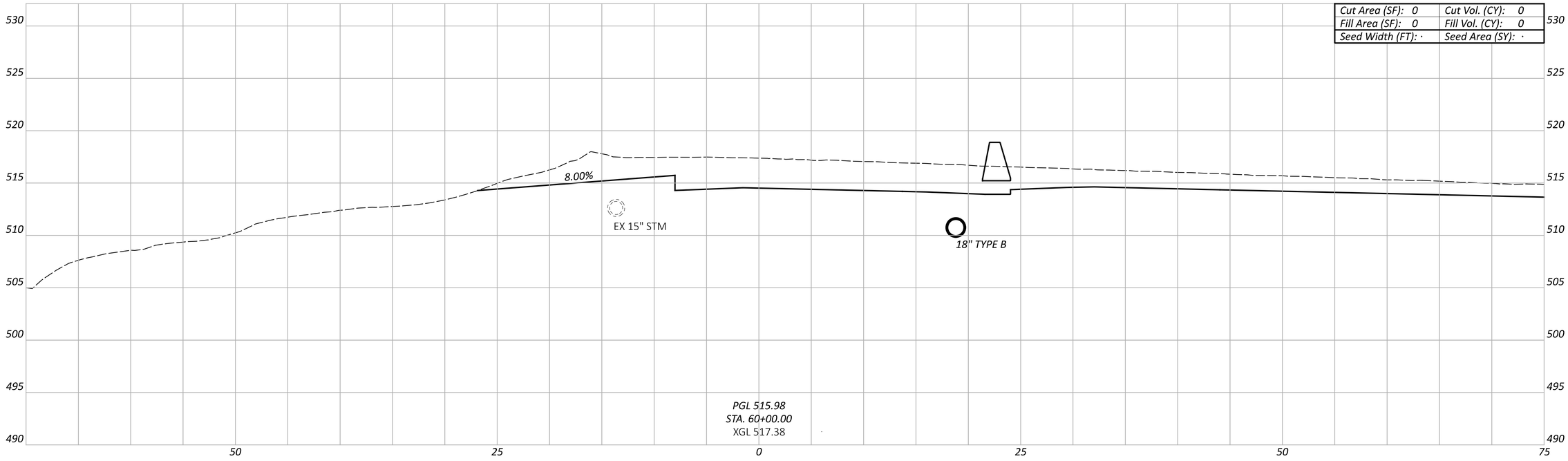
DESIGN AGENCY
EMH&T

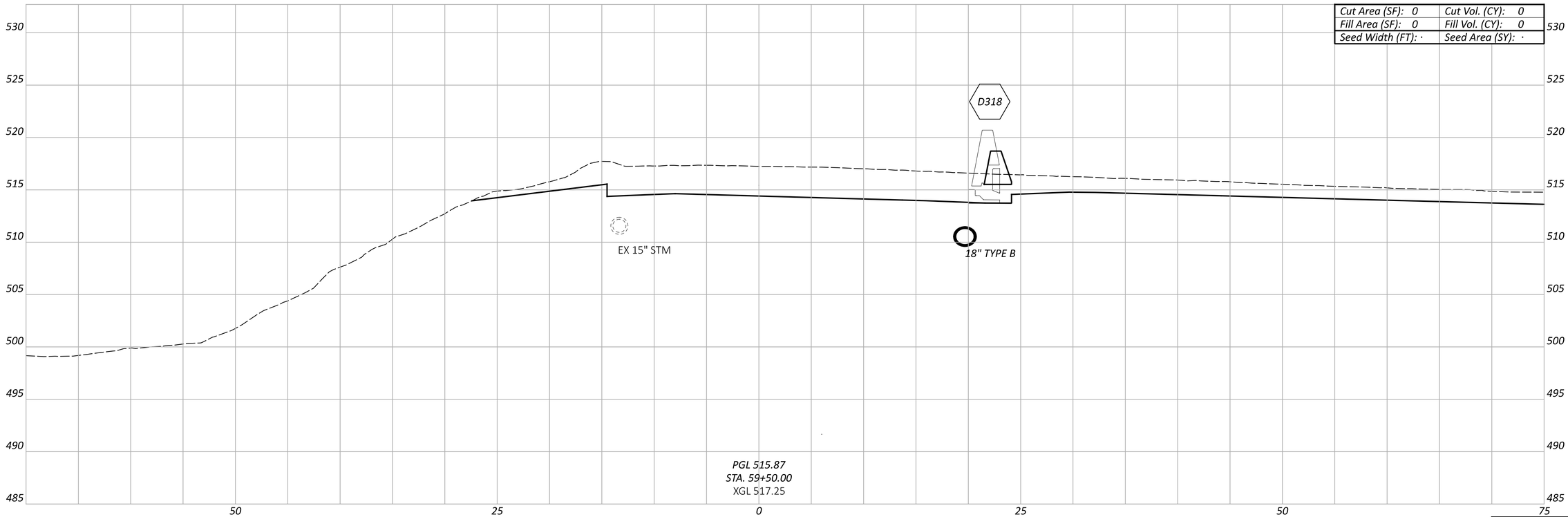
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.185 TOTAL 463





CROSS SECTIONS - RAMP C
STA 59+50.00 TO STA 60+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

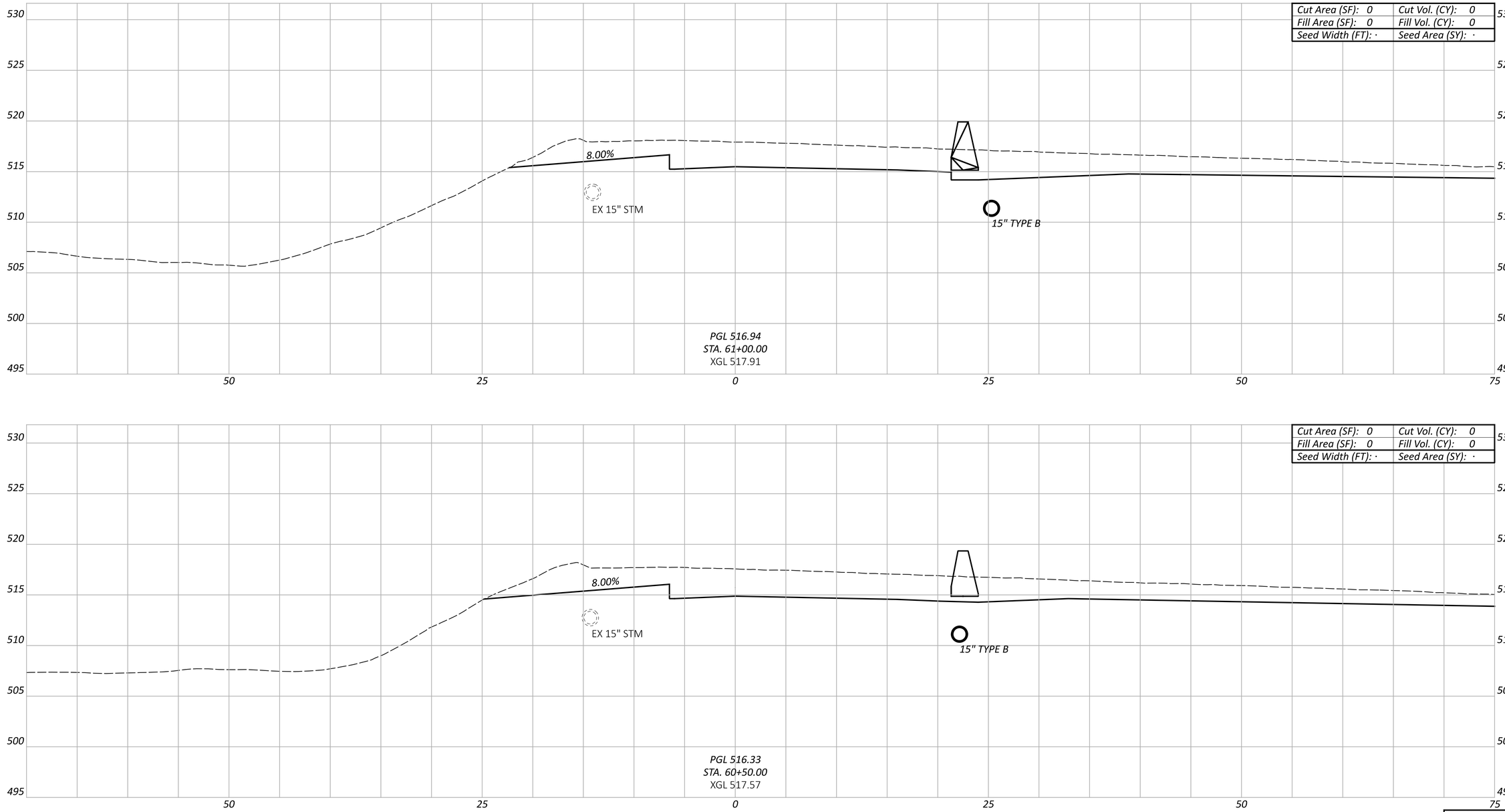
PROJECT ID
114161

Sheet Totals		
Seeding	Cut	Fill
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SHEET	TOTAL
P.186	463

HAM-75-1.95

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HAM-75-1.95

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CROSS SECTIONS - RAMP C
STA 60+50.00 TO STA 61+00.00

Sheet Totals		
Seeding	Cut	Fill
·	·	·

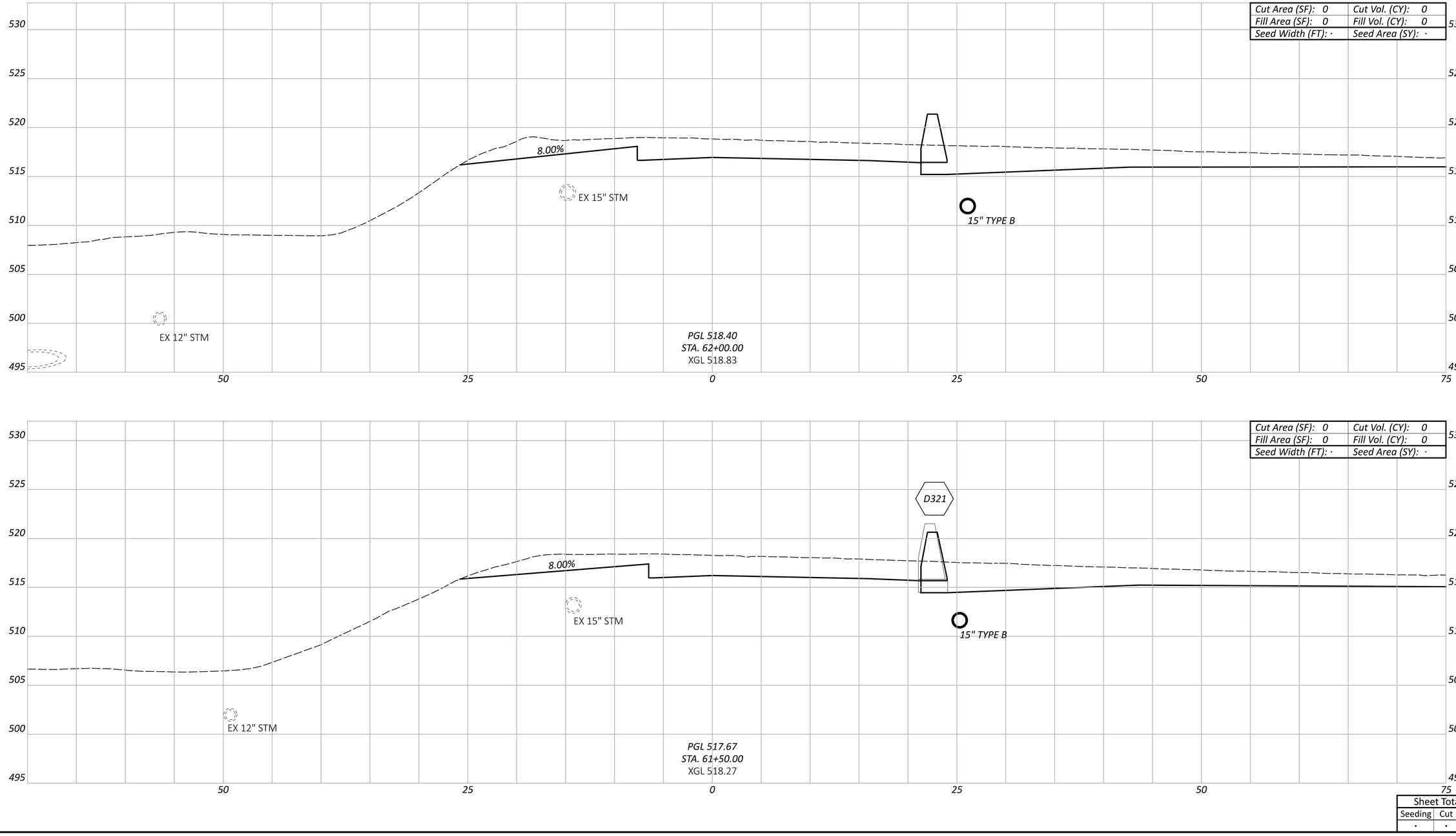
DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.187 TOTAL 463



CROSS SECTIONS - RAMP C
STA 61+50.00 TO STA 62+00.00

HAM-75-1.95

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Sheet Totals		
Seeding	Cut	Fill
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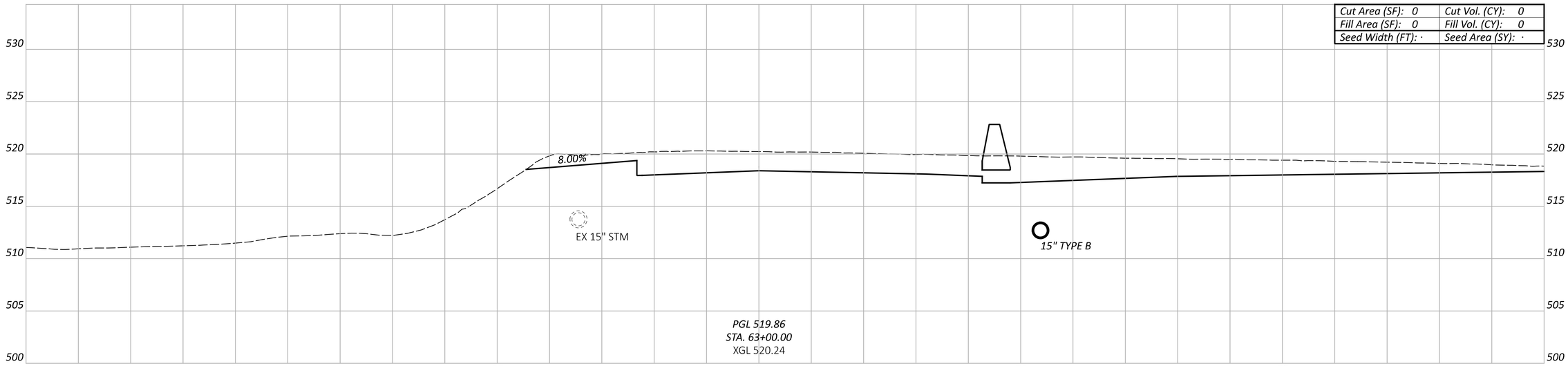
DESIGN AGENCY
EMH&T

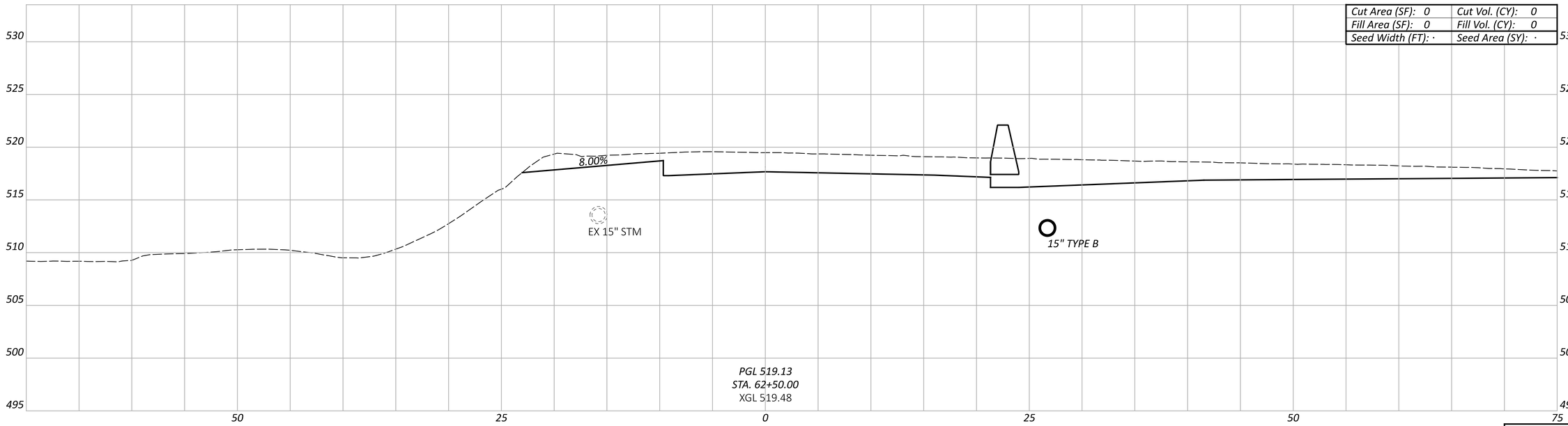
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.188 | TOTAL 463





CROSS SECTIONS - RAMP C
STA 62+50.00 TO STA 63+00.00

Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.189 | TOTAL 463

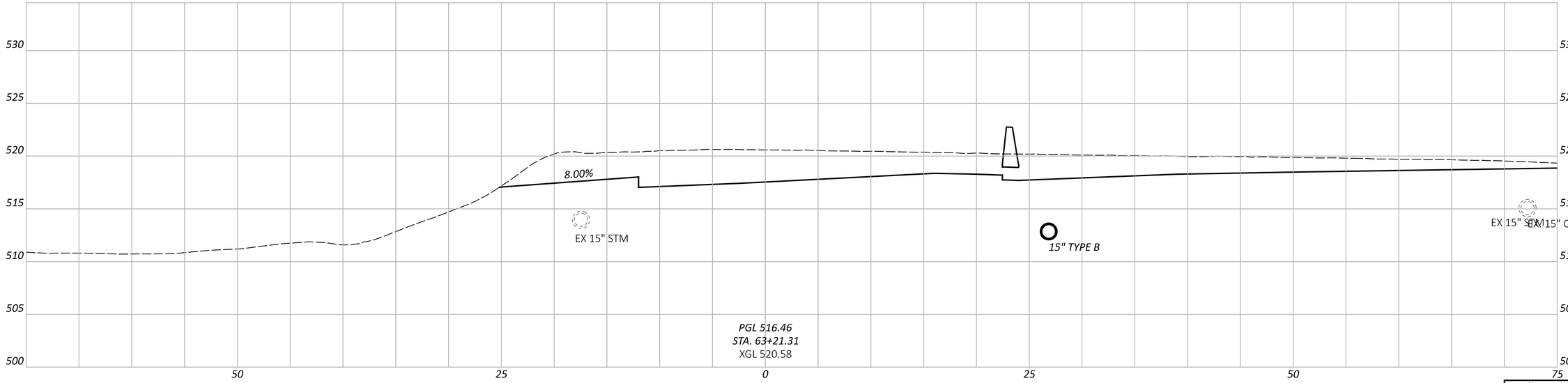
HAM-75-1.95

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HAM-75-1.95

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CROSS SECTIONS - RAMP C
STA 63+21.31



DESIGN AGENCY
EMHT

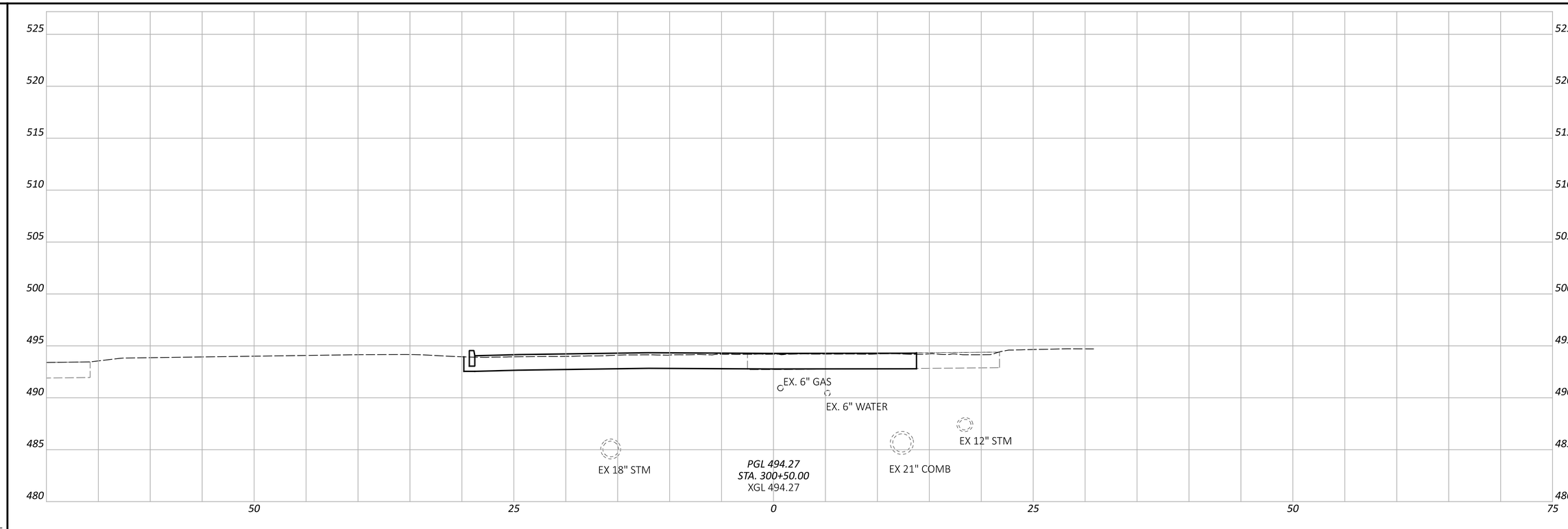
DESIGNER
SJB

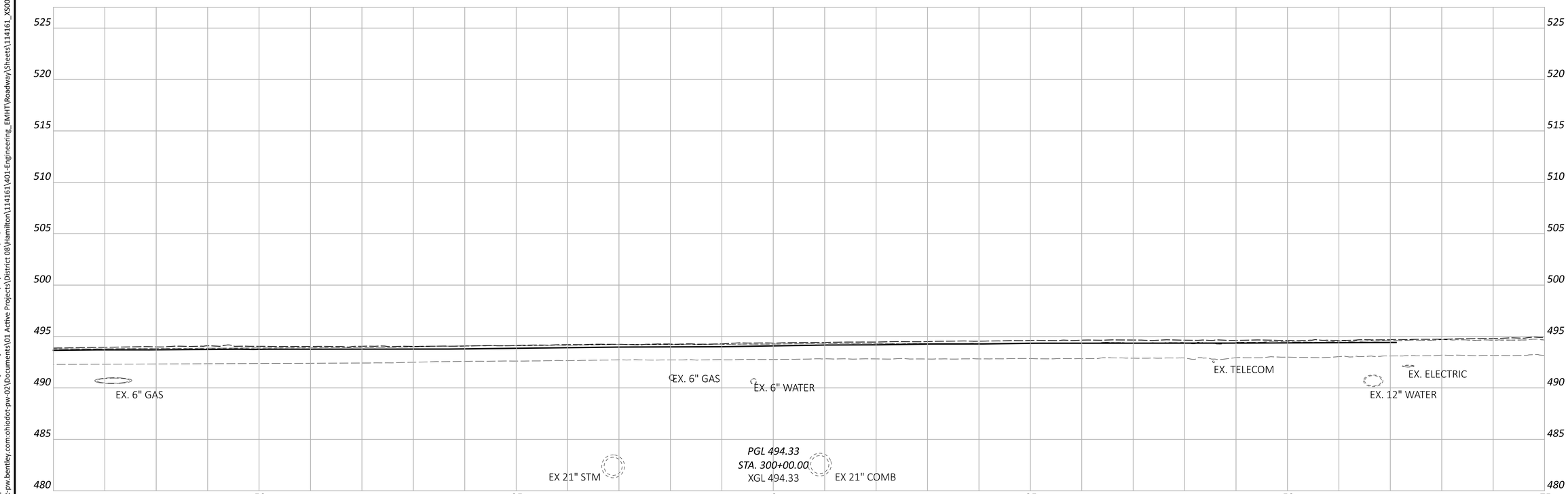
REVIEWER
MJR 06/21/24

PROJECT ID
114161

Sheet Totals		
Seeding	Cut	Fill
.	.	.

SHEET	TOTAL
P.190	463





CROSS SECTIONS - RAMP D
STA 300+00.00 TO STA 300+50.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

Sheet Totals		
Seeding	Cut	Fill
.	.	.

SHEET P.191 TOTAL 463

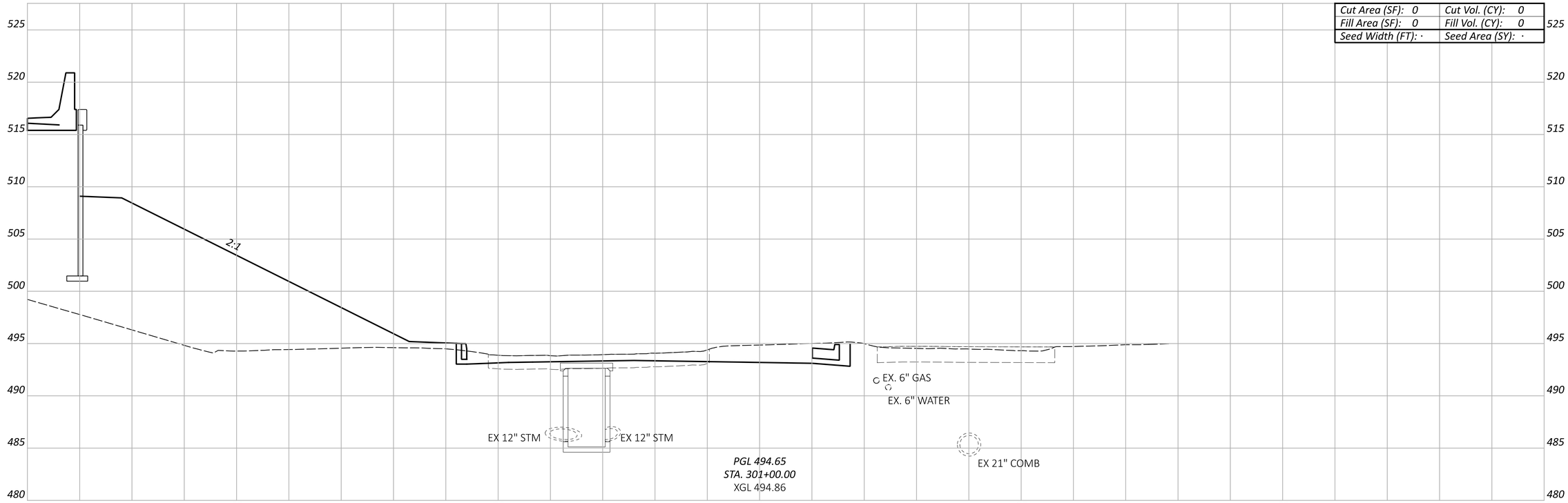
HAM-75-1.95

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HAM-75-1.95

MODEL: BLP_RAMP D - 301+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:21:30 PM USER: sbeal
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CROSS SECTIONS - RAMP D
STA 301+00.00



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

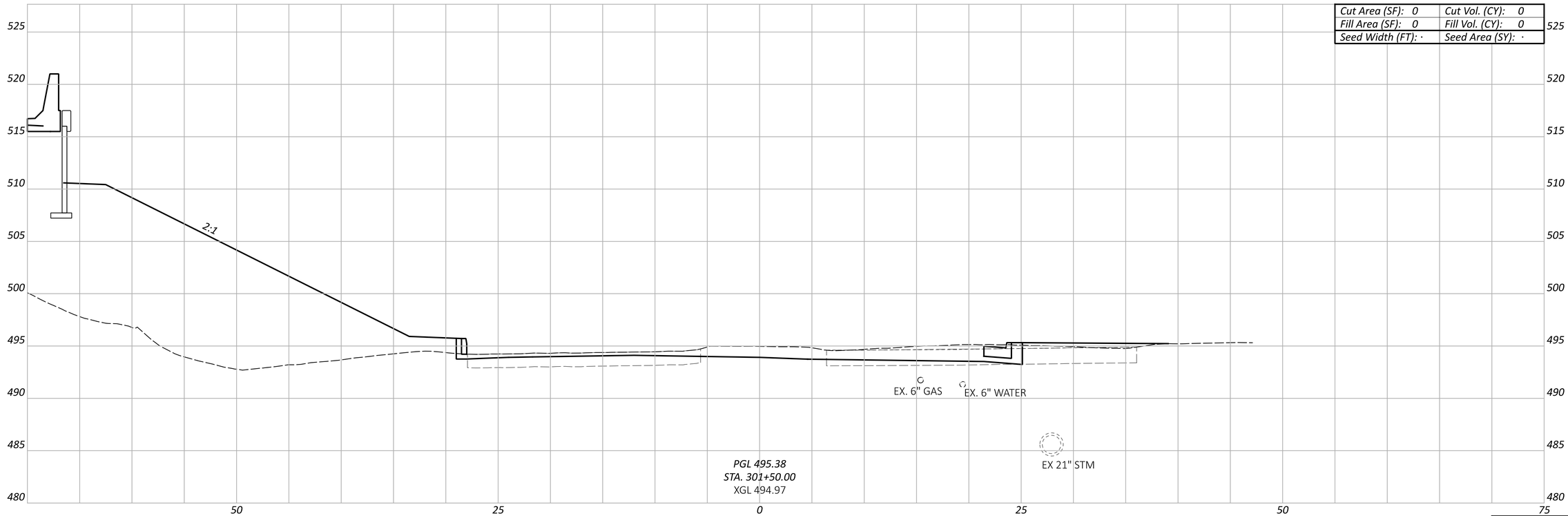
PROJECT ID
114161

SHEET P.192 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - RAMP D
STA 301+50.00



Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMH&T

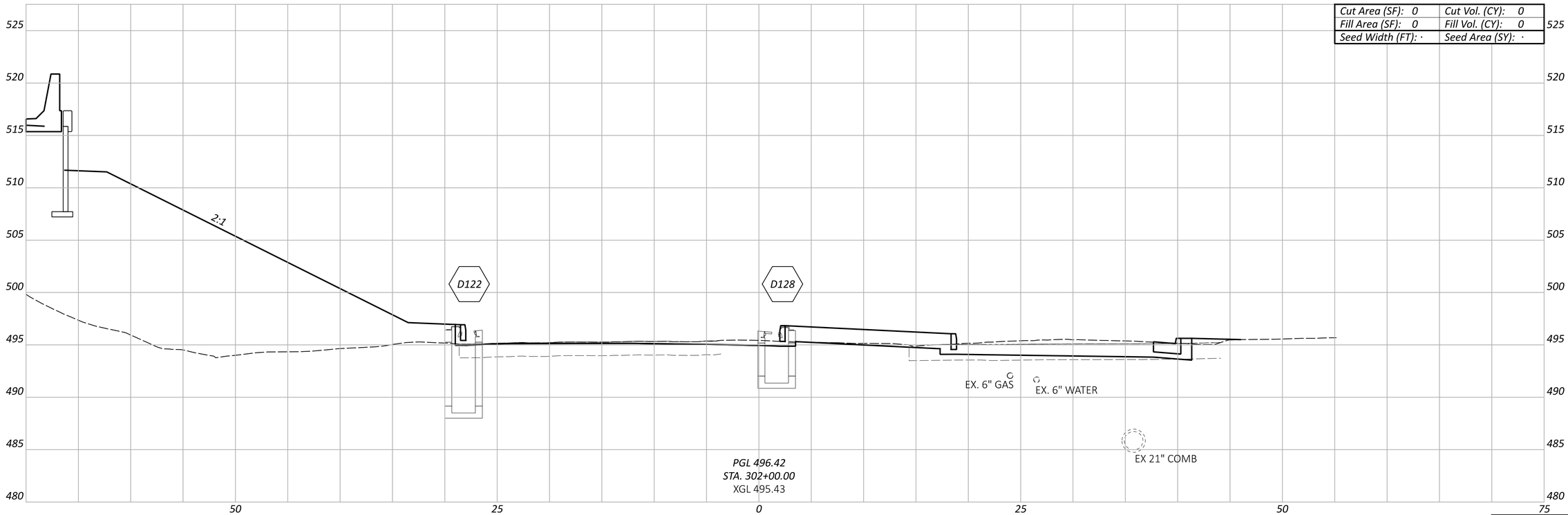
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.193 TOTAL 463





CROSS SECTIONS - RAMP D
STA 302+00.00 TO STA 302+50.00

Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMH&T

DESIGNER
SJB

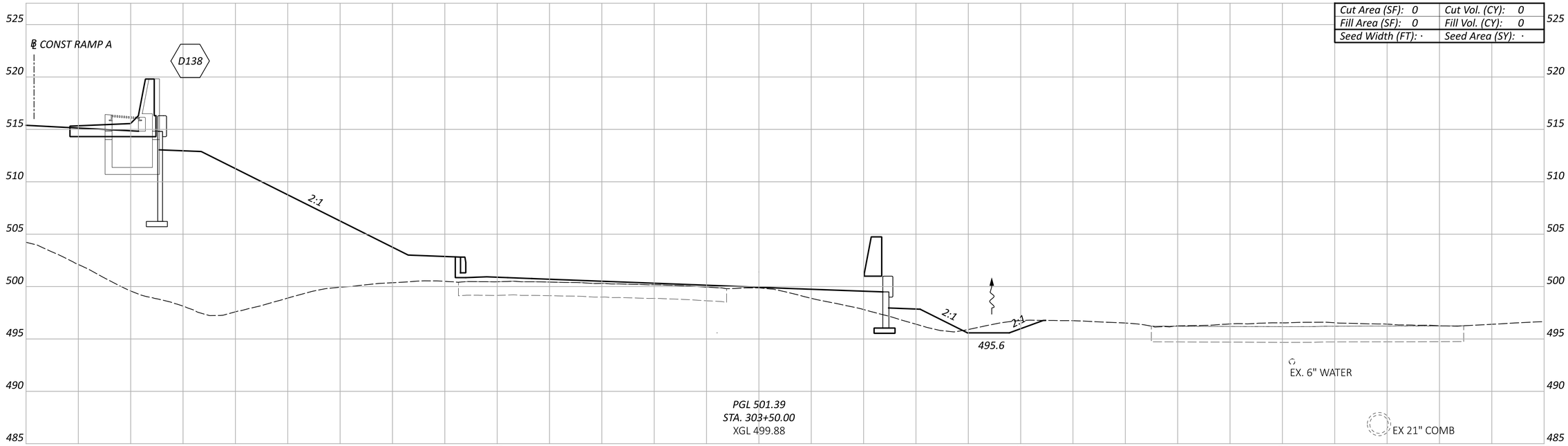
REVIEWER
MJR 06/21/24

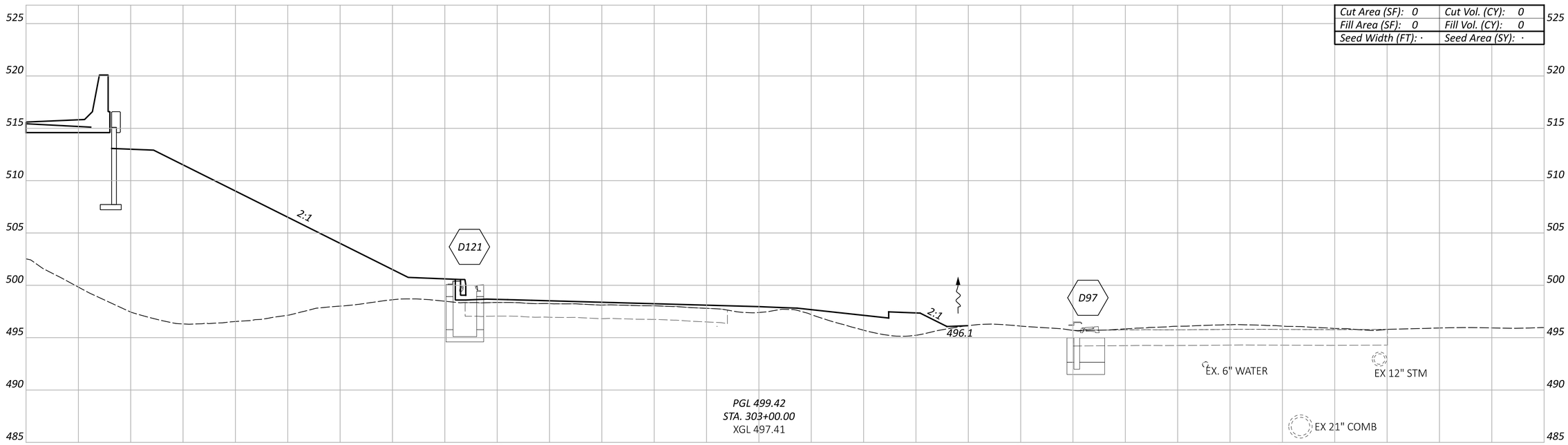
PROJECT ID
114161

SHEET P.194 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - RAMP D
STA 303+00.00 TO STA 303+50.00

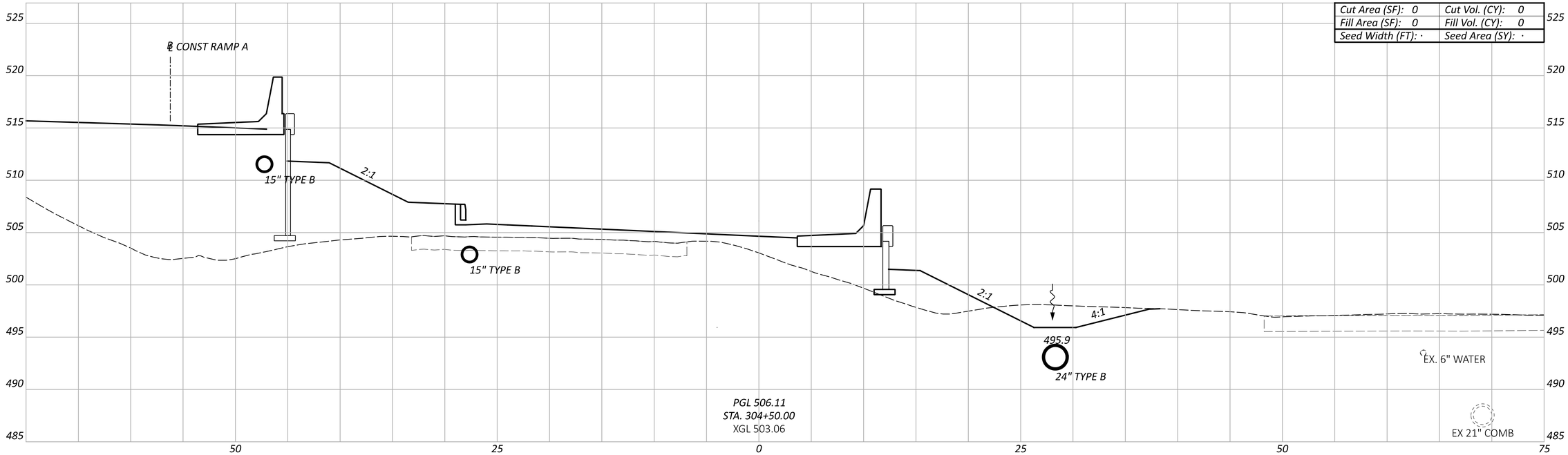
Sheet Totals		
Seeding	Cut	Fill
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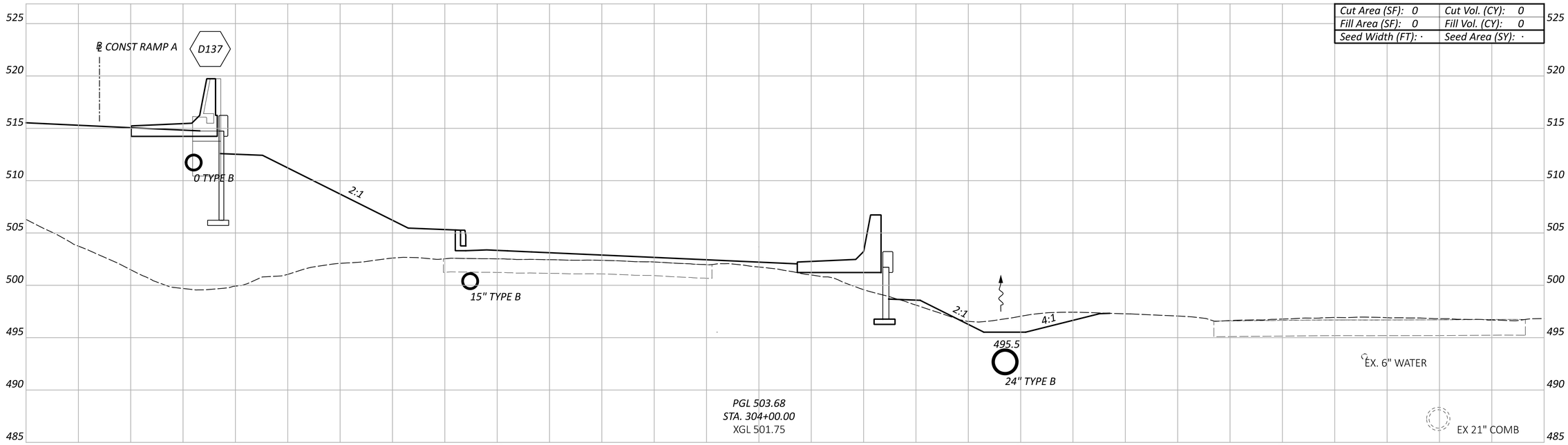
DESIGN AGENCY
EMH&T

DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.195
TOTAL	463

HAM-75-1.95

MODEL: BLP_RAMP D - 303+00.00 TO 303+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:22:01 PM USER: sbeal
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CROSS SECTIONS - RAMP D
STA 304+00.00 TO STA 304+50.00

HAM-75-1.95

MODEL: BLP_RAMP D - 304+00.00 TO 304+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:22:16 PM USER: sbeal
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Sheet Totals		
Seeding	Cut	Fill
·	·	·

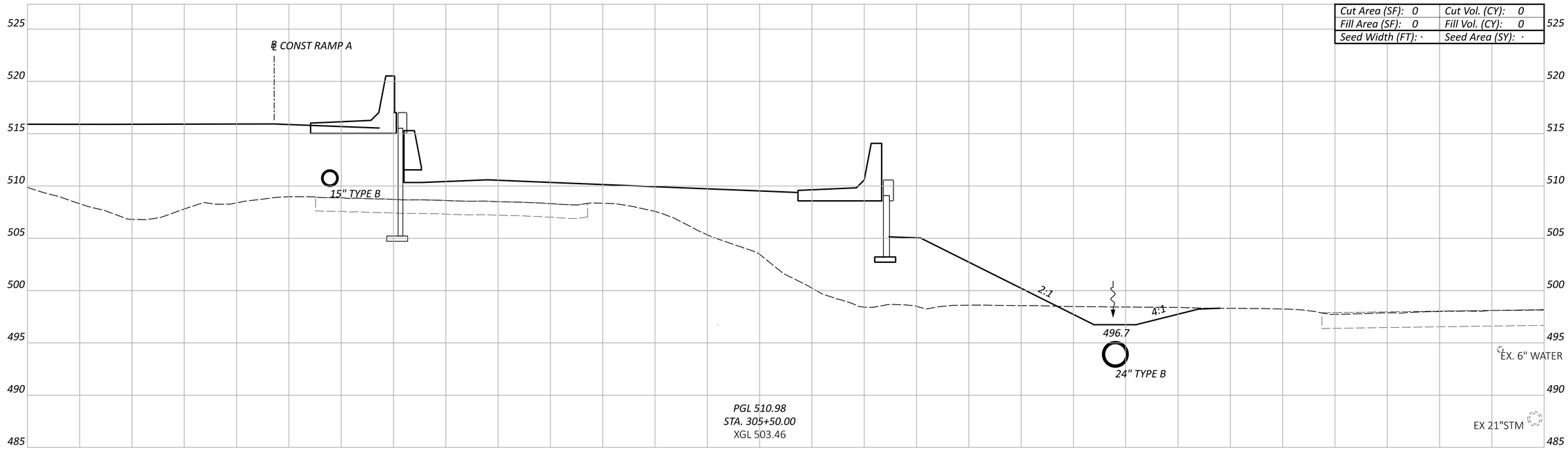
DESIGN AGENCY
EMH&T

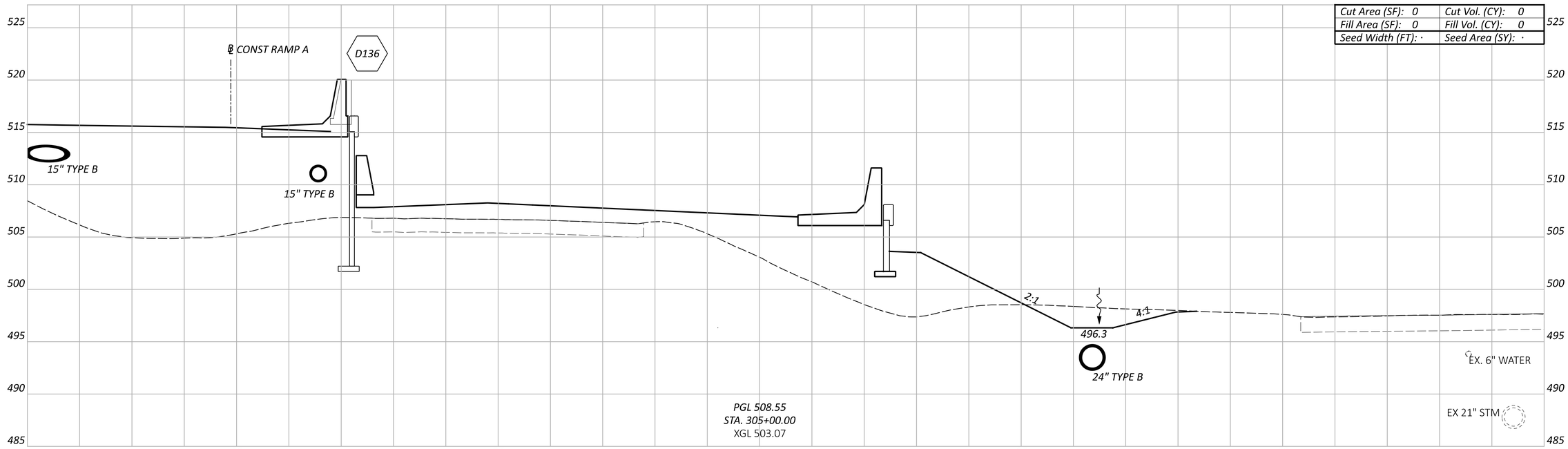
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.196 TOTAL 463





CROSS SECTIONS - RAMP D
STA 305+00.00 TO STA 305+50.00

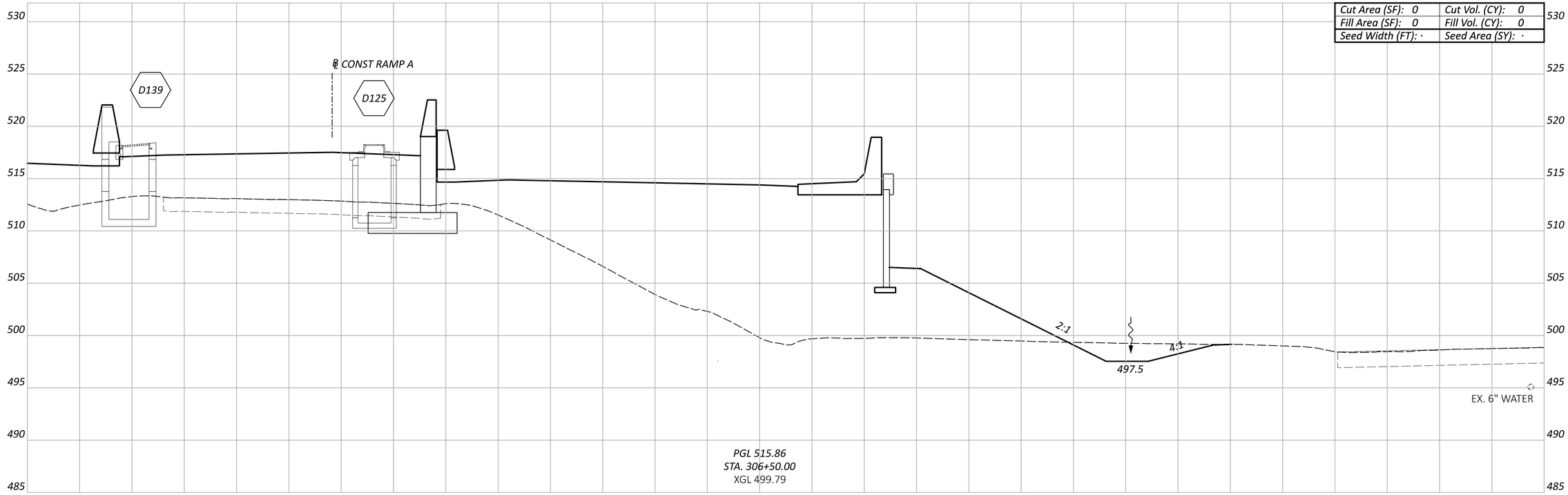
Sheet Totals		
Seeding	Cut	Fill
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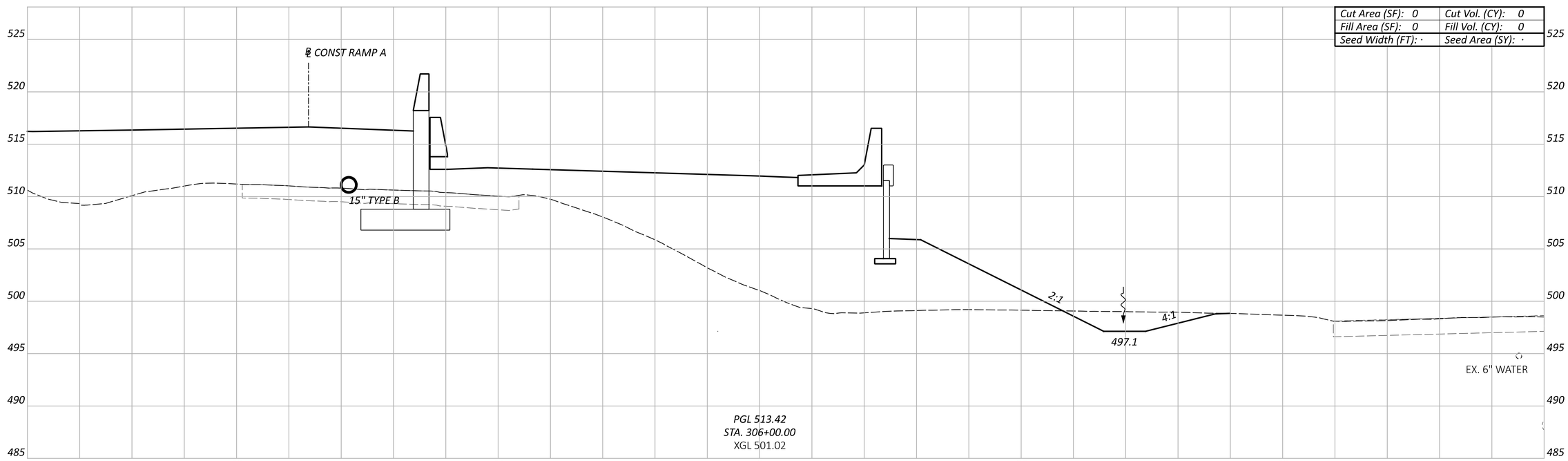
DESIGN AGENCY
EMH&T

DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.197
TOTAL	463

HAM-75-1.95

MODEL: BLP_RAMP D - 305+00.00 TO 305+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:22:30 PM USER: sbeal
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CROSS SECTIONS - RAMP D
STA 306+00.00 TO STA 306+50.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.198
TOTAL	463

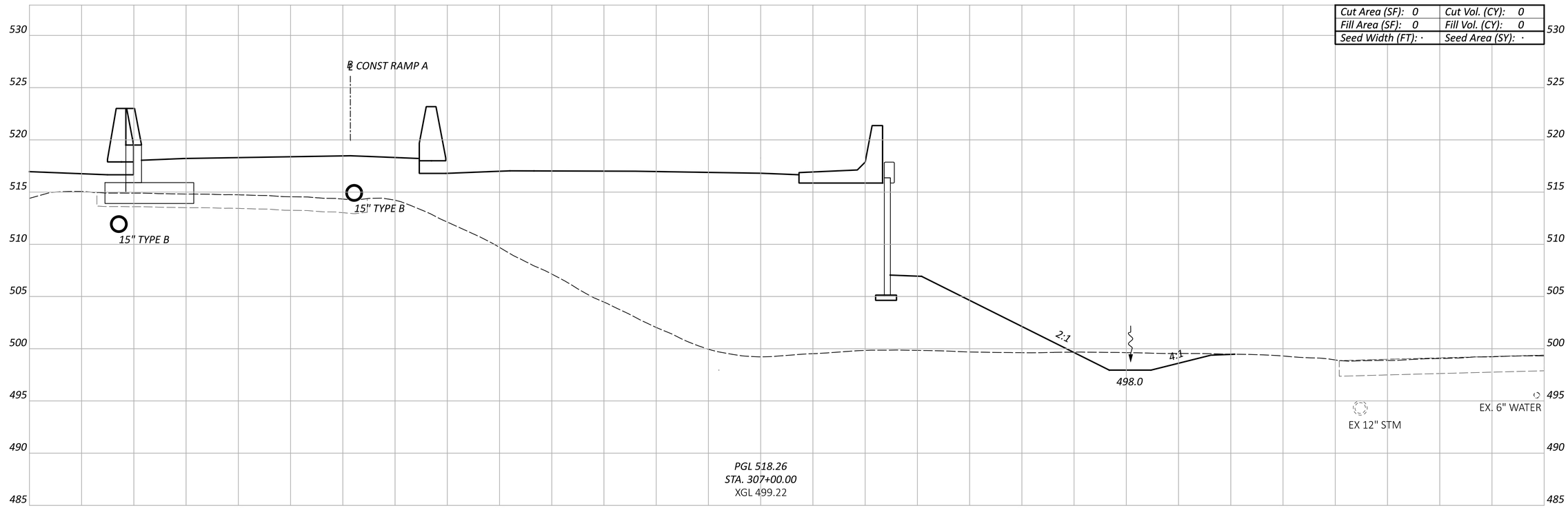
HAM-75-1.95

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HAM-75-1.95

MODEL: BLP_RAMP D - 307+00.00 TO 307+50.00 |Sheet| PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:22:58 PM USER: sbeal
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CROSS SECTIONS - RAMP D
STA 307+00.00



Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.199 TOTAL 463

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

℄ CONST RAMP A

15" TYPE B

15" TYPE B

2:1

4:1

498.5

EX. 6" WATER

EX 12" COMB

PGL 520.47
STA. 307+50.00
XGL 520.97

530 525 520 515 510 505 500 495 490 485

50 25 0 25 50 75

CROSS SECTIONS - RAMP D
STA 307+50.00

Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY: EMH&T

DESIGNER: SJB

REVIEWER: MJR 06/21/24

PROJECT ID: 114161

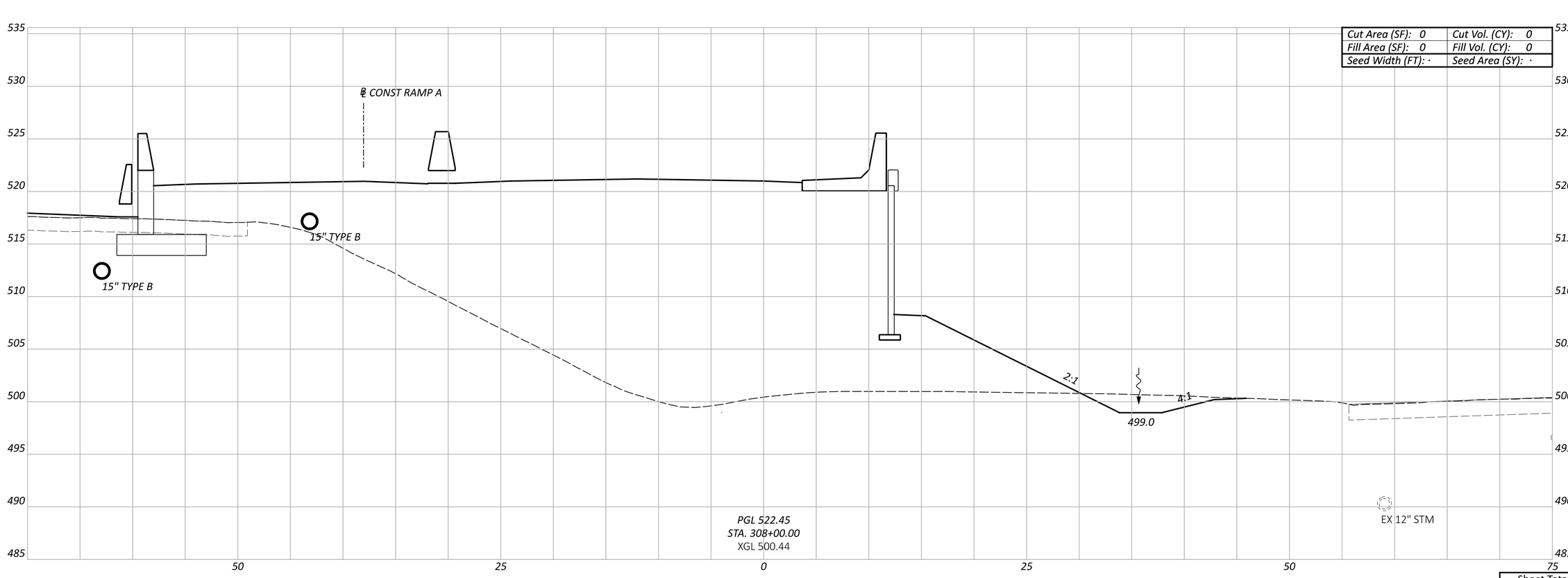
SHEET: P.200 TOTAL: 463

HAM-75-1.95

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HAM-75-1.95

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

CROSS SECTIONS - RAMP D
STA 308+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

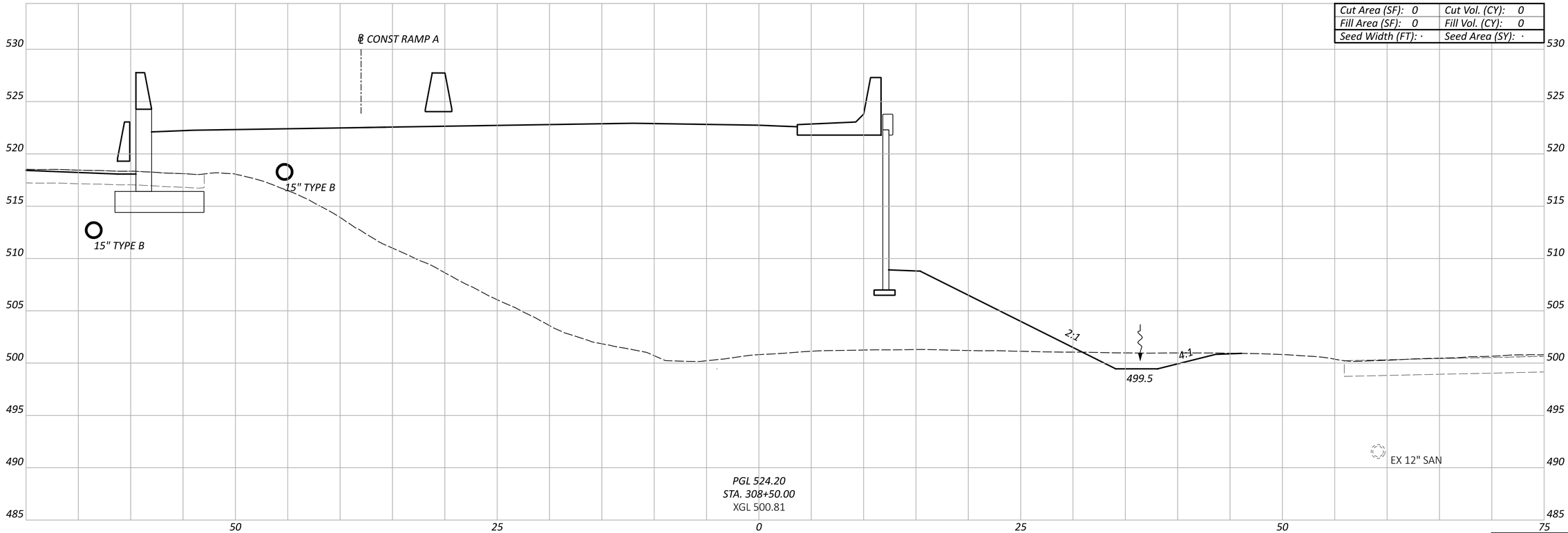
Sheet Totals		
Seeding	Cut	Fill
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SHEET	TOTAL
P.201	463

HAM-75-1.95

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



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Seeding	Cut	Fill
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CROSS SECTIONS - RAMP D
STA 308+50.00

DESIGN AGENCY
EMH&T

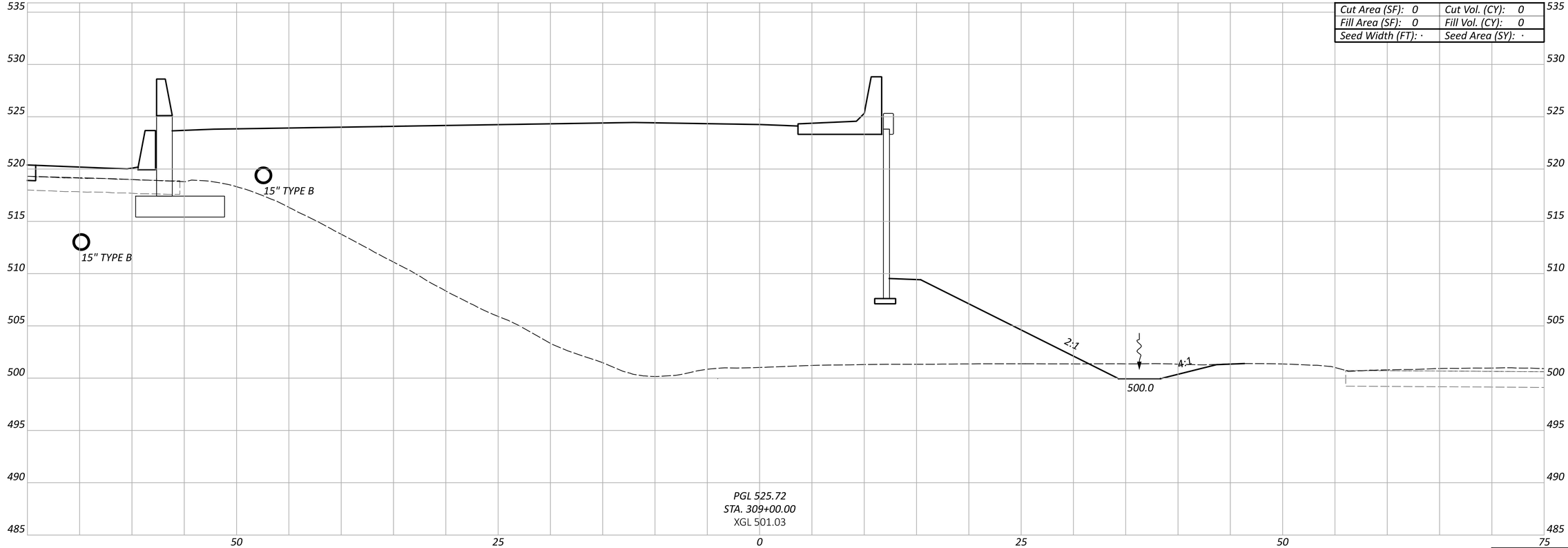
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.202 TOTAL 463

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Sheet Totals		
Seeding	Cut	Fill
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CROSS SECTIONS - RAMP D
STA 309+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.203 TOTAL 463

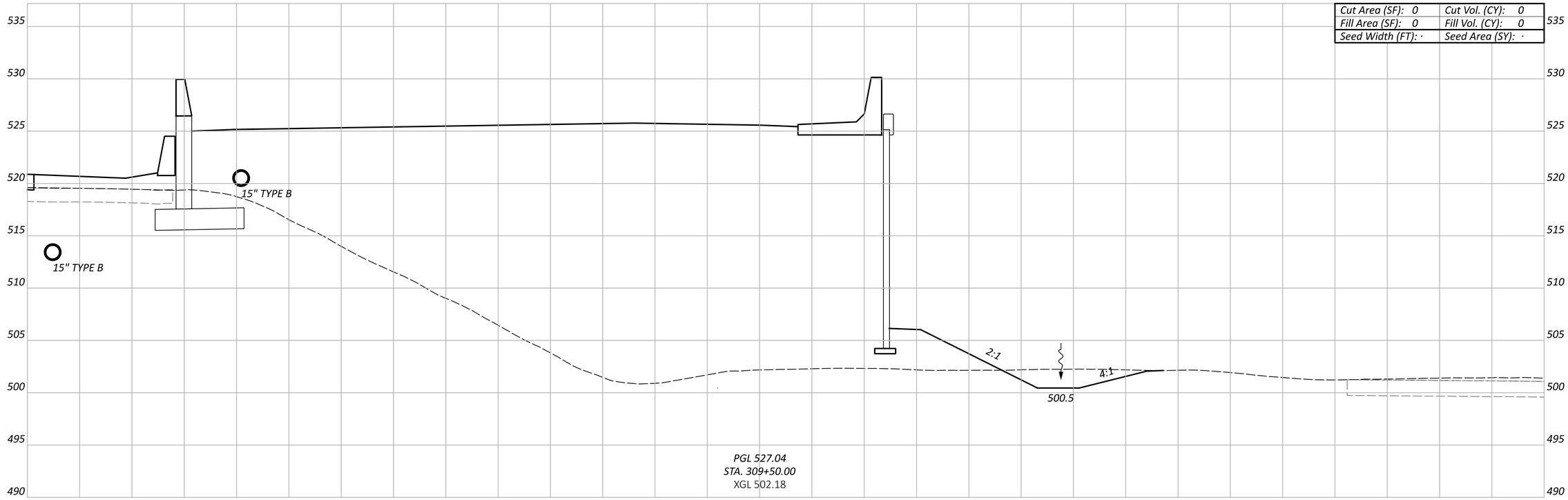
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HAM-75-1.95

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CROSS SECTIONS - RAMP D
STA 309+50.00



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Seed Width (FT): ·	Seed Area (SY): ·

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.204 TOTAL 463

HAM-75-1.95

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

535
530
525
520
515
510
505
500
495
490

15" TYPE B

15" TYPE B

2:1

4:1

501.0

EX. 6" GAS

PGL 528.33
STA. 310+00.00
XGL 502.27

50 25 0 25 50 75

Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - RAMP D
STA 310+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

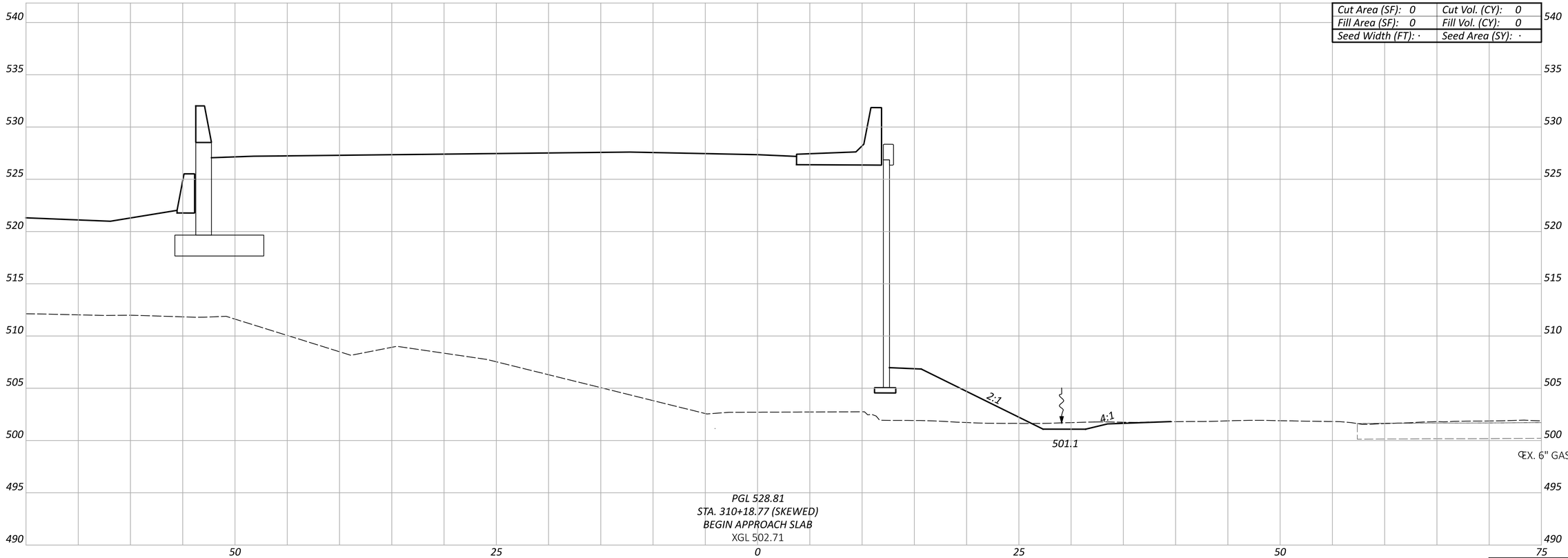
SHEET P.205 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - RAMP D
STA 310+18.77

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Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMHT

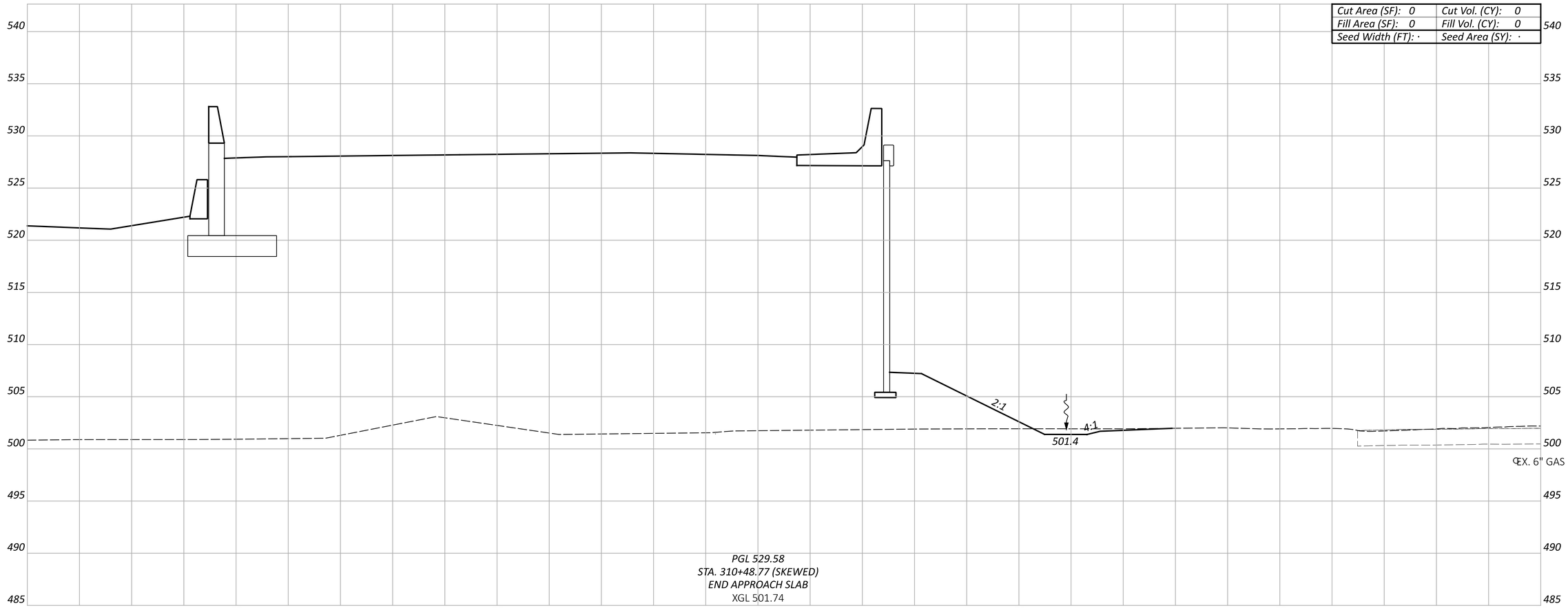
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET	TOTAL
P.206	463

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
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CROSS SECTIONS - RAMP D
STA 310+48.77

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

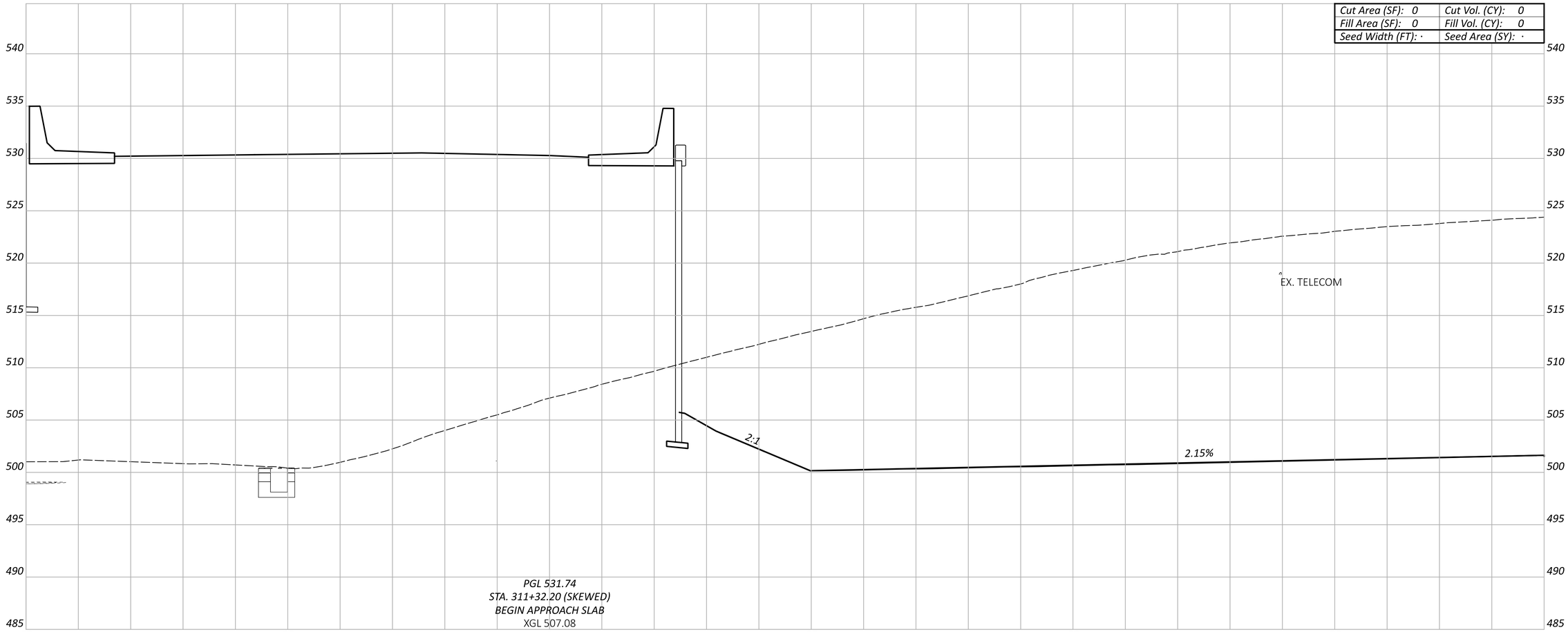
PROJECT ID
114161

SHEET	TOTAL
P.207	463

HAM-75-1.95

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
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HAM-75-1.95

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CROSS SECTIONS - RAMP D
STA 311+32.20

DESIGN AGENCY: EMH&T

DESIGNER: SJB

REVIEWER: MJR 06/21/24

PROJECT ID: 114161

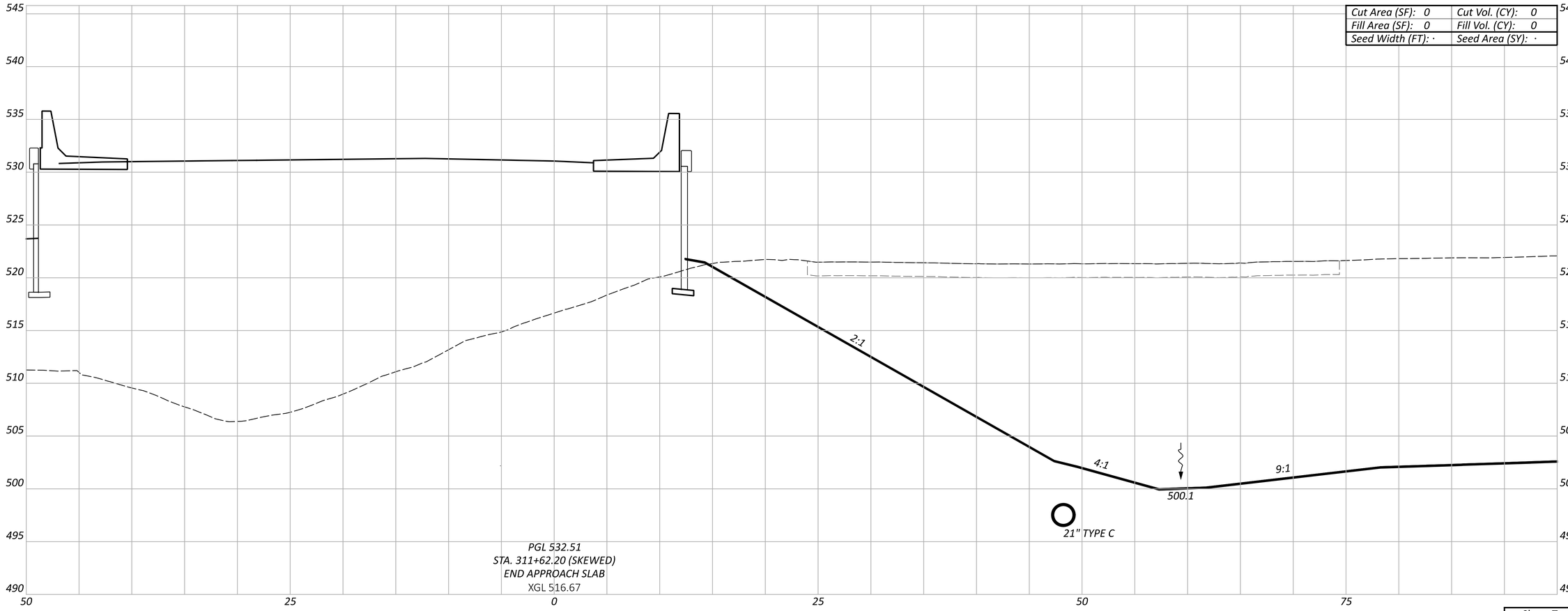
SHEET: P.208 TOTAL: 463

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HAM-75-1.95

CROSS SECTIONS - RAMP D
STA 311+62.20

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Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMHT

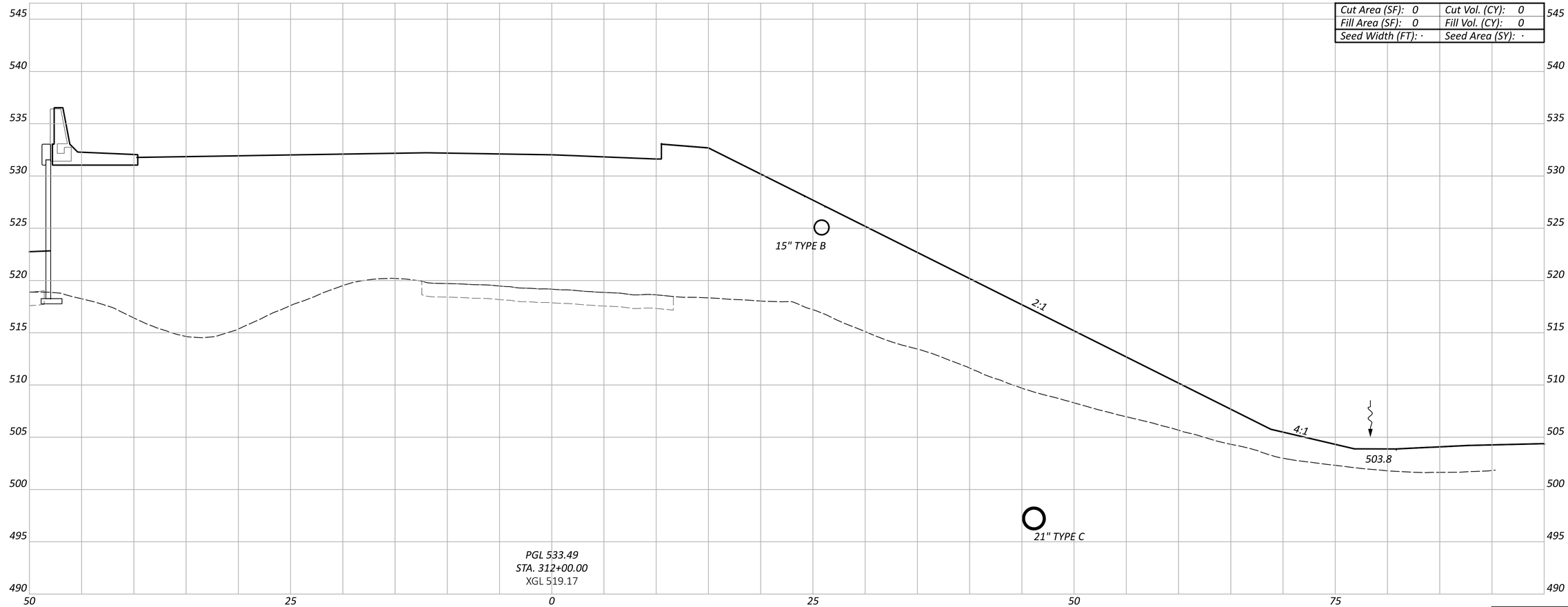
DESIGNER
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REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.209 | TOTAL 463

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Seed Width (FT): ·	Seed Area (SY): ·



CROSS SECTIONS - RAMP D
STA 312+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

Sheet Totals		
Seeding	Cut	Fill
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SHEET	TOTAL
P.210	463

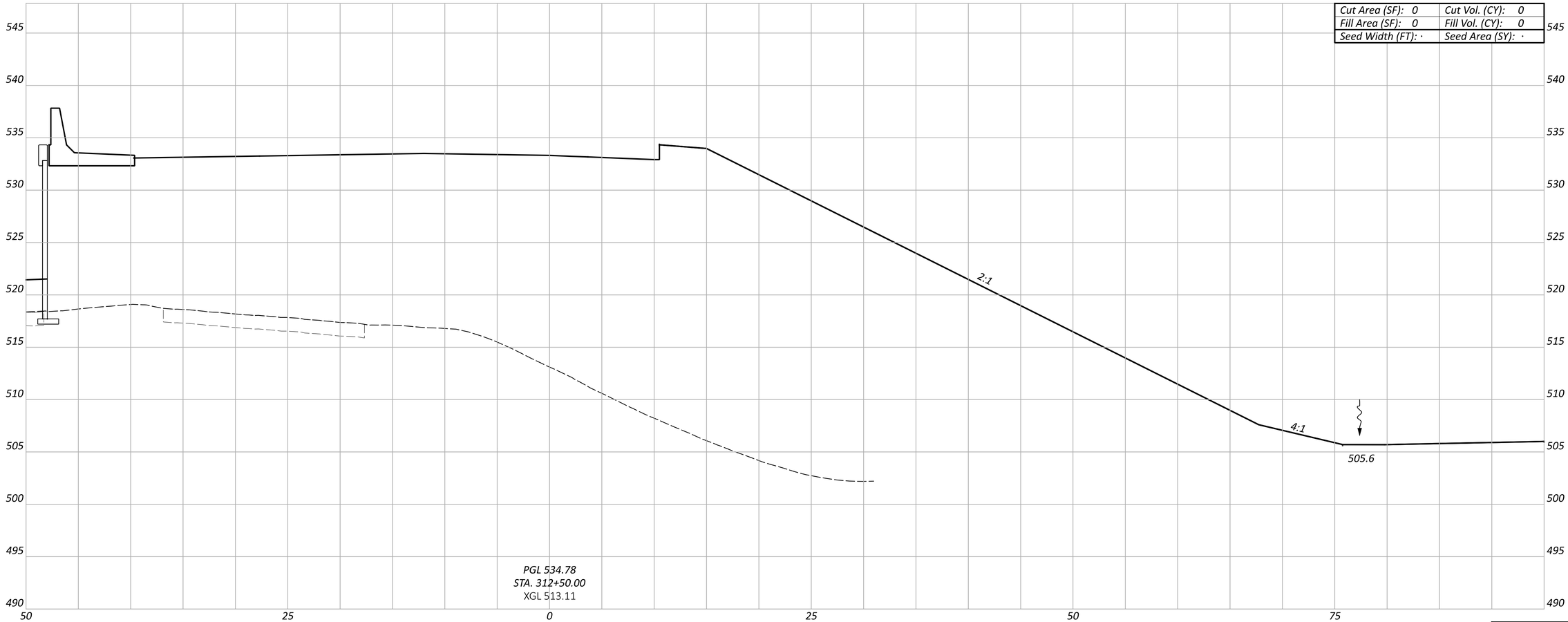
HAM-75-1.95

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HAM-75-1.95

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Seed Width (FT): ·	Seed Area (SY): ·



CROSS SECTIONS - RAMP D
STA 312+50.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

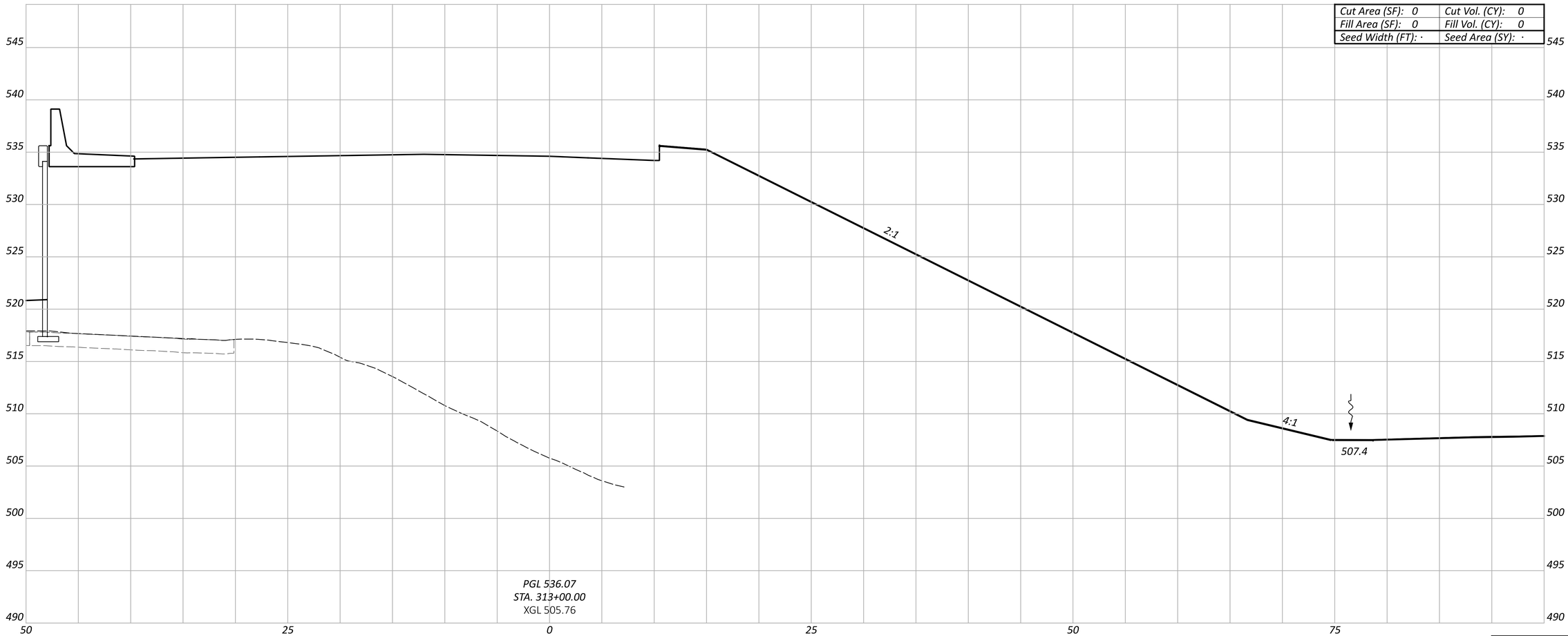
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET	TOTAL
P.211	463

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Sheet Totals		
Seeding	Cut	Fill
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HAM-75-1.95

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CROSS SECTIONS - RAMP D
STA 313+00.00

DESIGN AGENCY
EMH&T

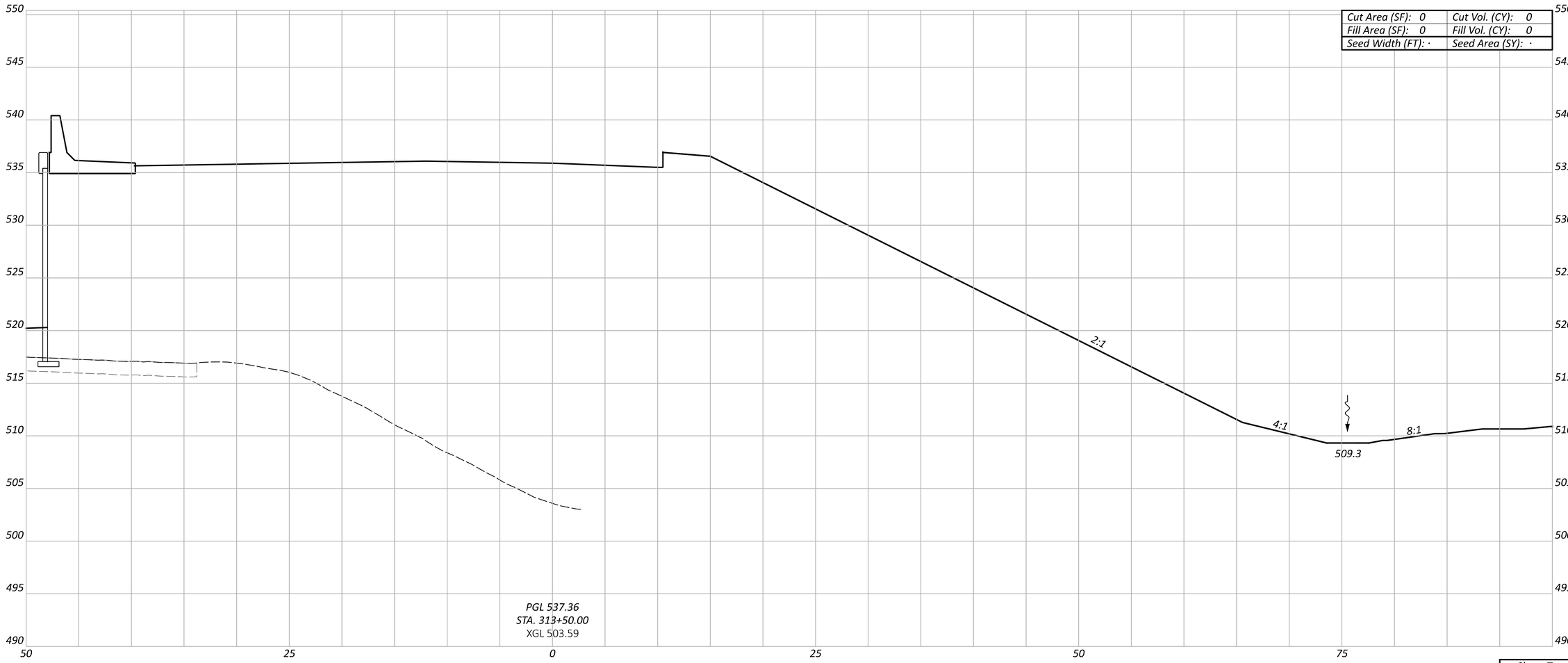
DESIGNER
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REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET	TOTAL
P.212	463

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Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
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CROSS SECTIONS - RAMP D
STA 313+50.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET	TOTAL
P.213	463

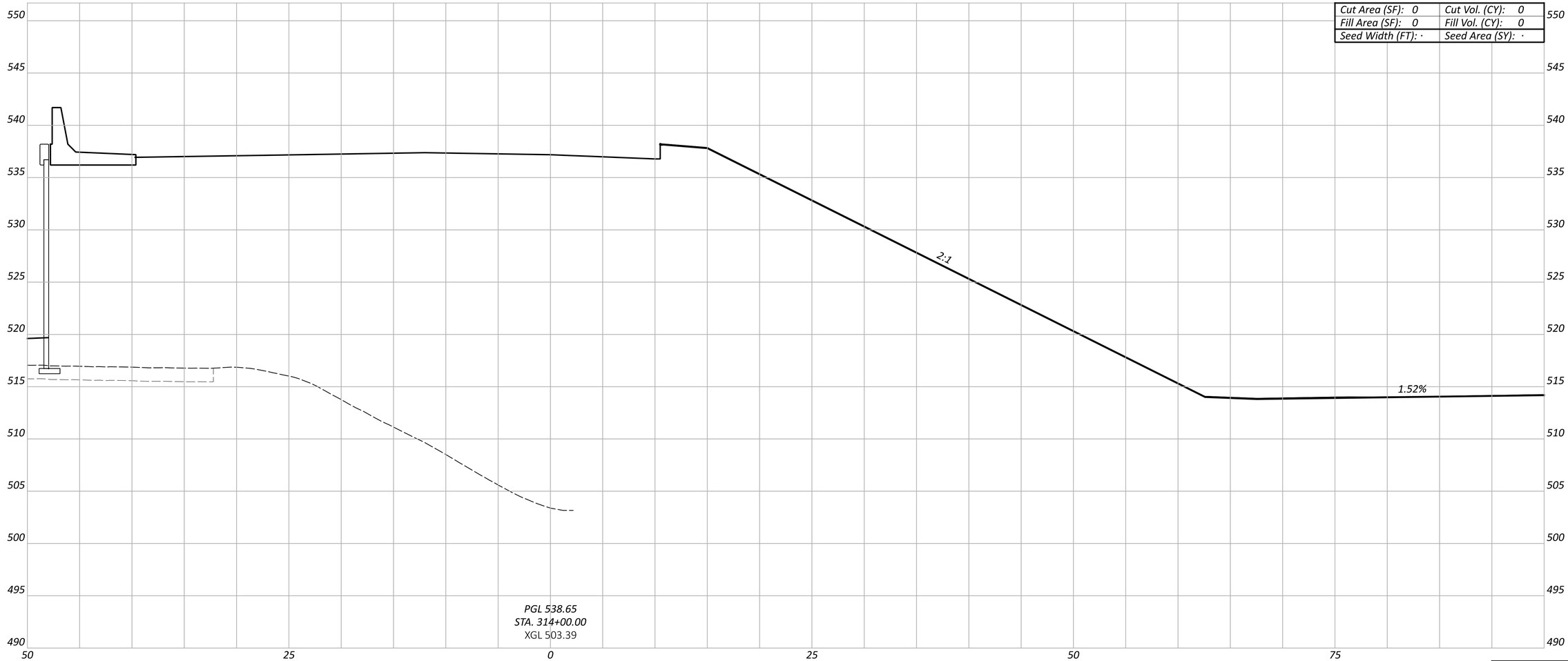
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HAM-75-1.95

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Sheet Totals		
Seeding	Cut	Fill
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CROSS SECTIONS - RAMP D
STA 314+00.00

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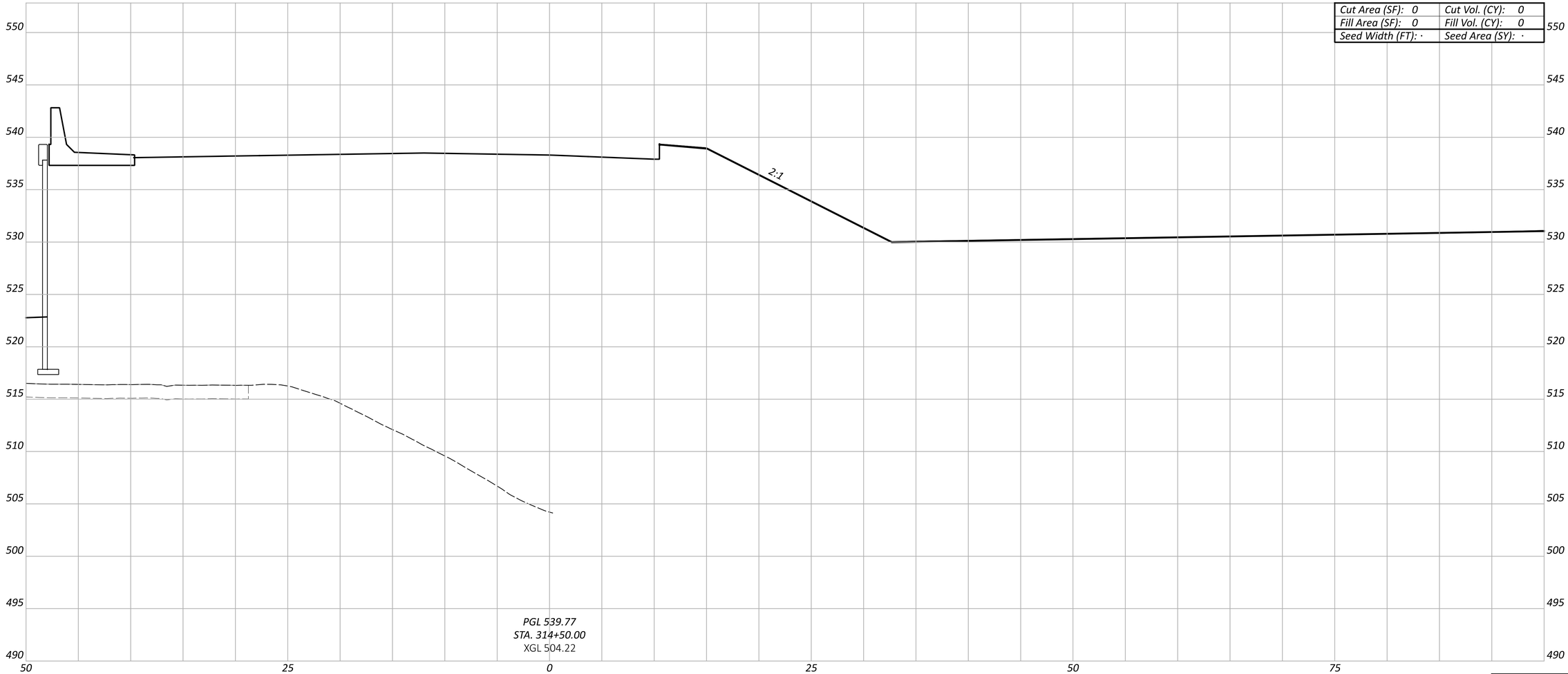
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REVIEWER
MJR 06/21/24

PROJECT ID
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SHEET	TOTAL
P.214	463

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Sheet Totals		
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HAM-75-1.95

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CROSS SECTIONS - RAMP D
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DESIGN AGENCY
EMH&T

DESIGNER
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REVIEWER
MJR 06/21/24

PROJECT ID
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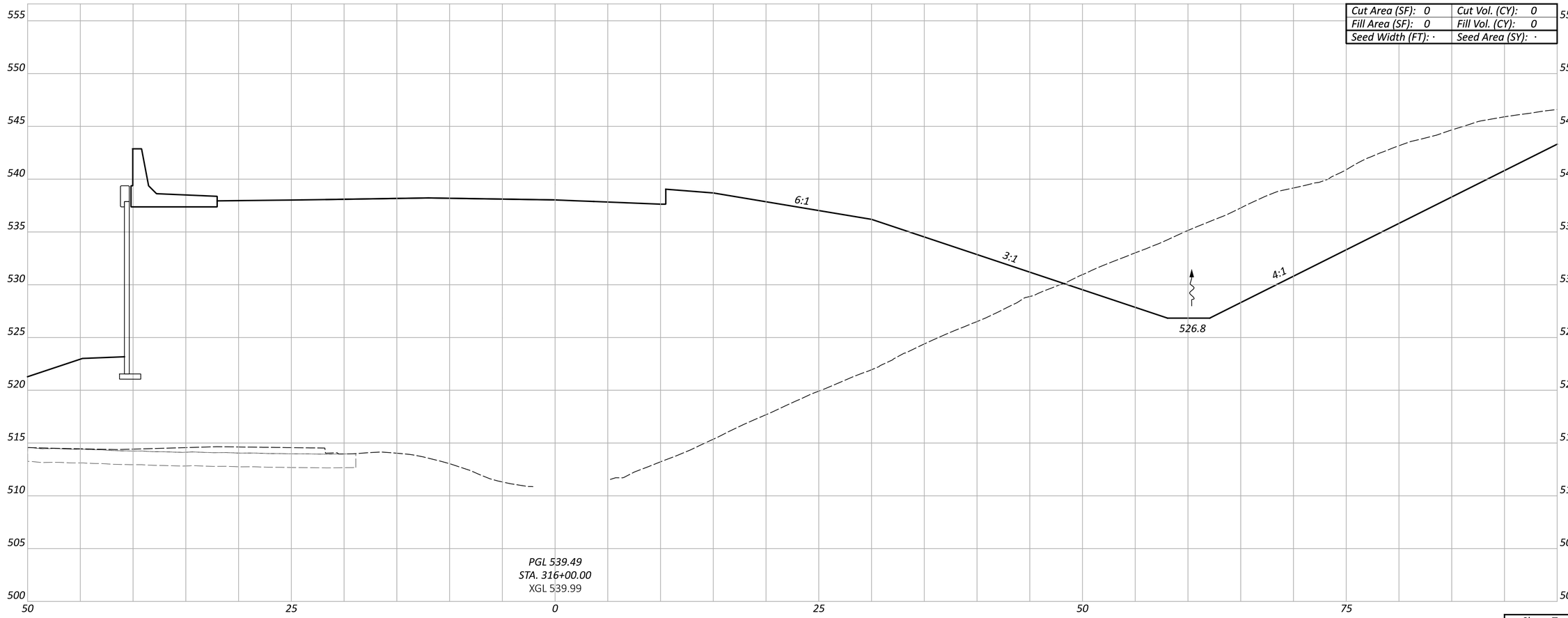
SHEET	TOTAL
P.215	463

HAM-75-1.95

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CROSS SECTIONS - RAMP D
STA 316+00.00

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Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

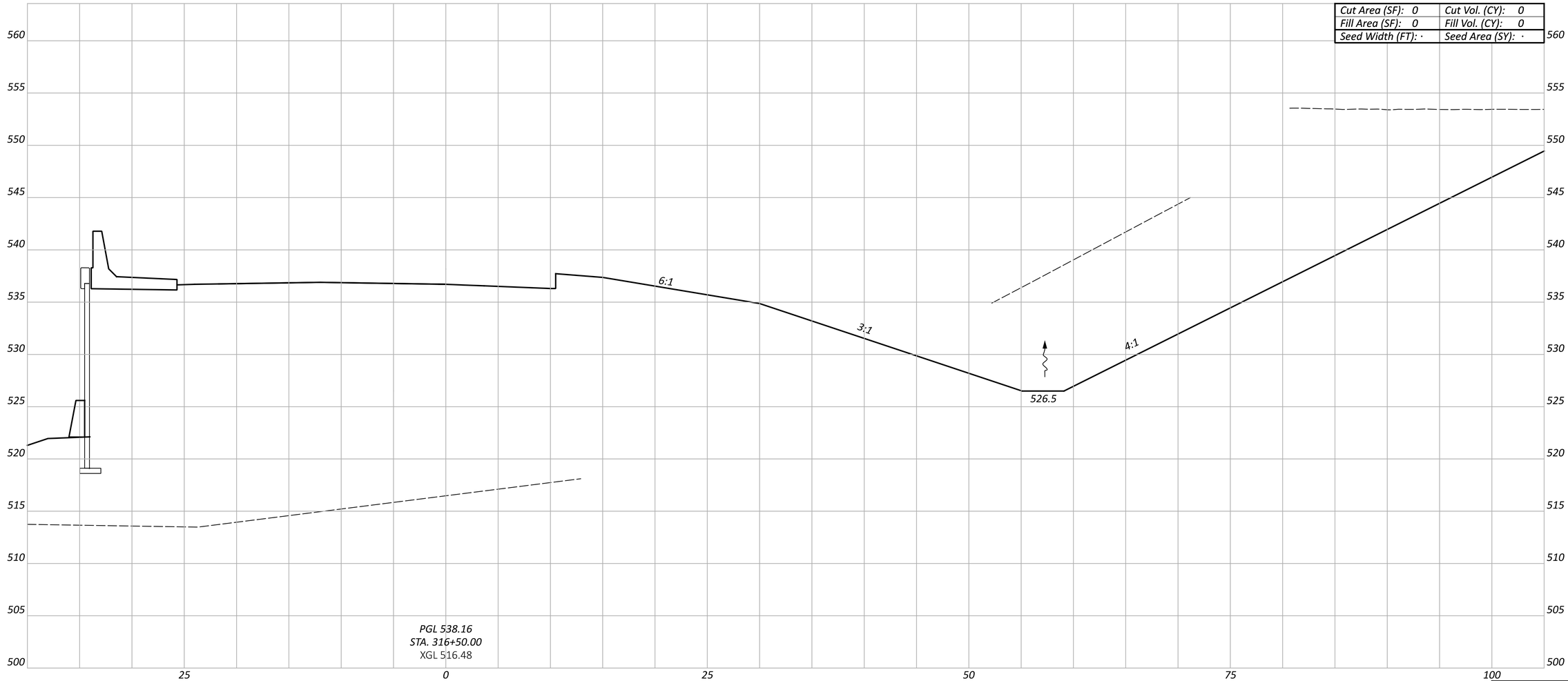
DESIGNER
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REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET	TOTAL
P.216	463

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CROSS SECTIONS - RAMP D
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Sheet Totals		
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DESIGN AGENCY
EMH&T

DESIGNER
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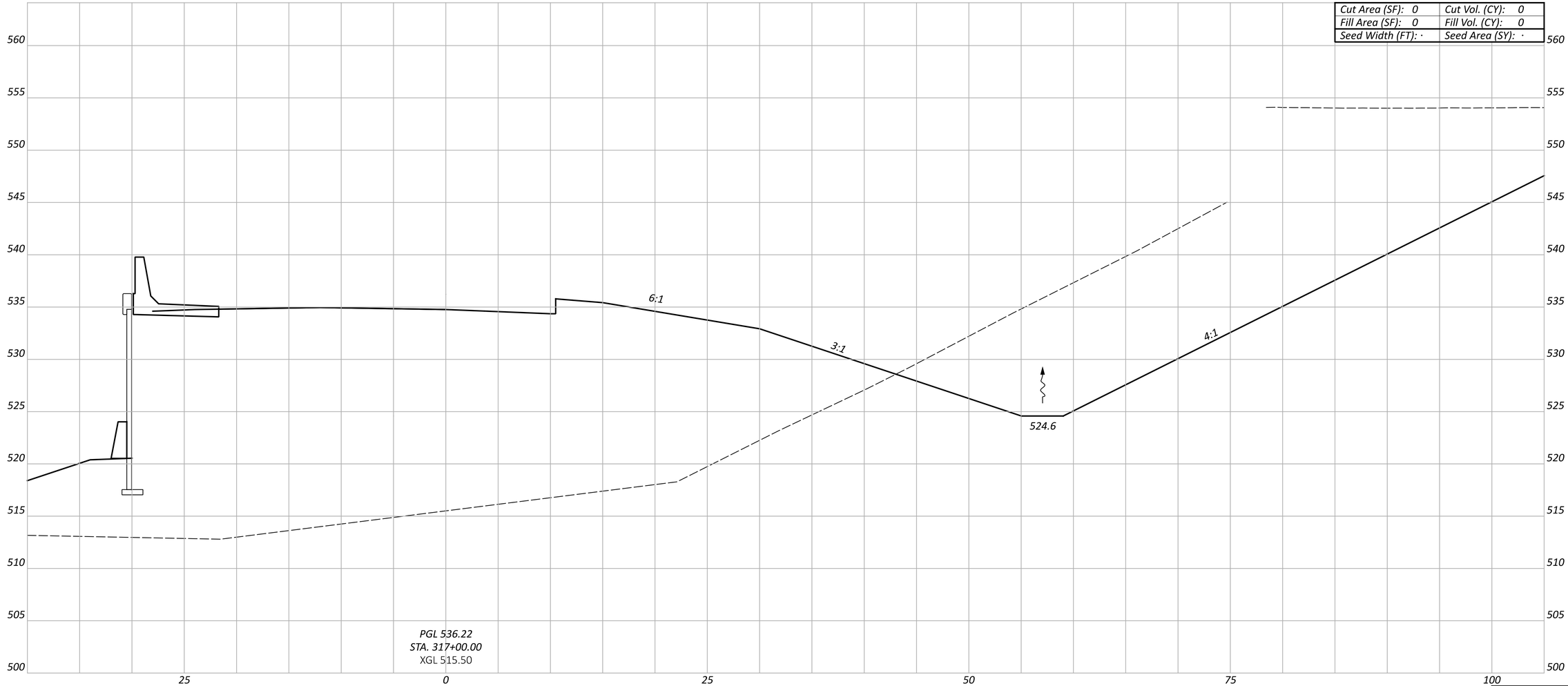
REVIEWER
MJR 06/21/24

PROJECT ID
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SHEET P.217 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - RAMP D
STA 317+00.00

HAM-75-1.95

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DESIGN AGENCY
EMH&T

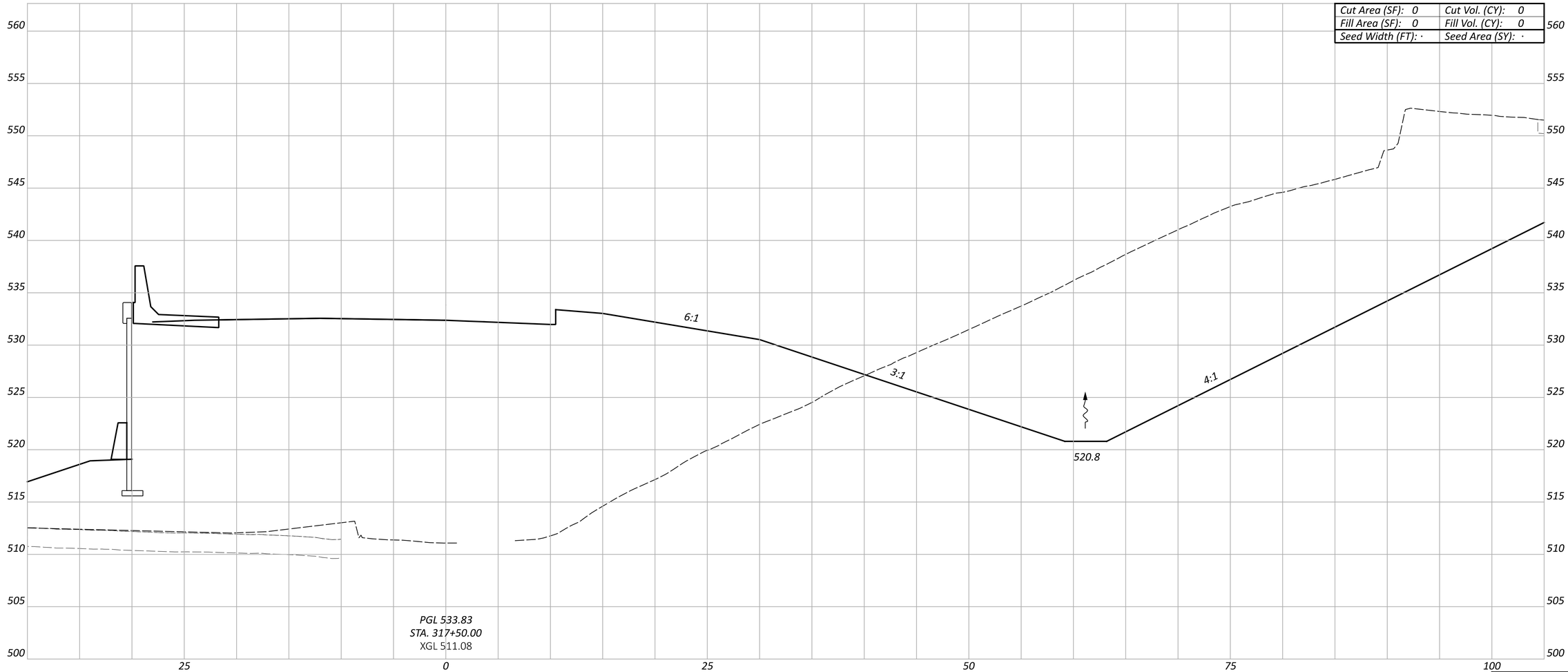
DESIGNER
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REVIEWER
MJR 06/21/24

PROJECT ID
114161

Sheet Totals		
Seeding	Cut	Fill
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SHEET	TOTAL
P.218	463



CROSS SECTIONS - RAMP D
STA 317+50.00

HAM-75-1.95

MODEL: BLP_RAMP D - 317+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:25:44 PM USER: sbeal
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DESIGN AGENCY
EMHT

DESIGNER
SJB

REVIEWER
MJR 06/21/24

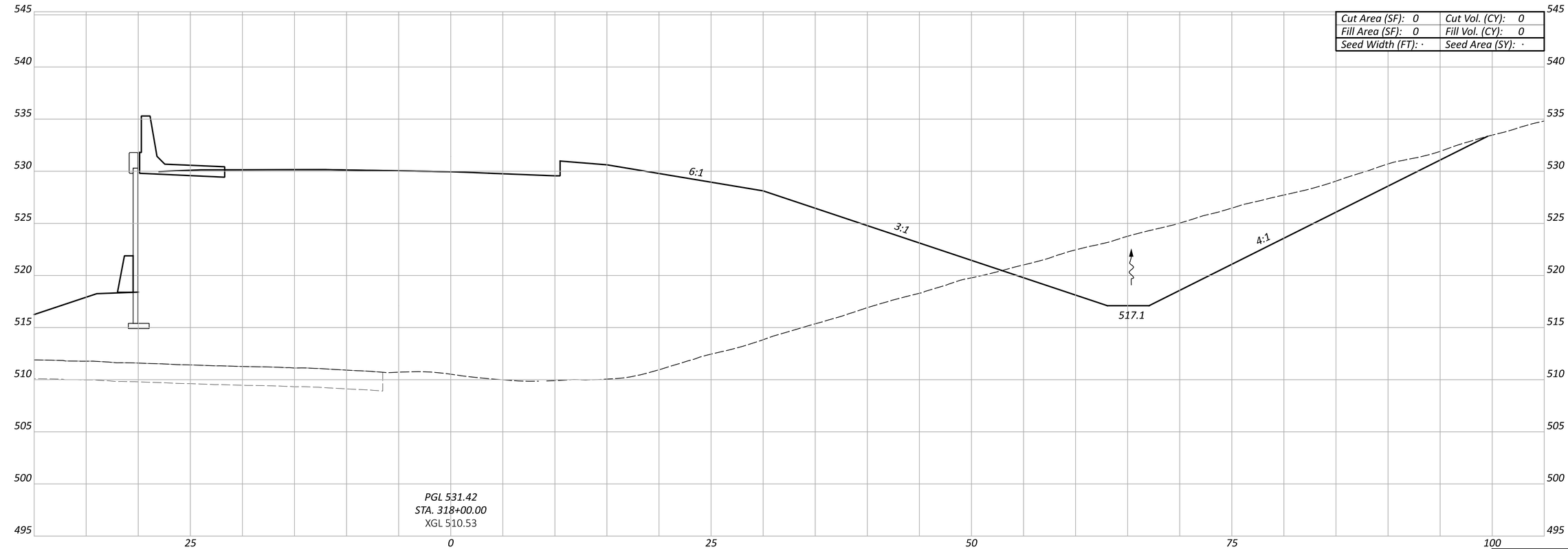
PROJECT ID
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Sheet Totals		
Seeding	Cut	Fill
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SHEET	TOTAL
P.219	463

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HAM-75-1.95



CROSS SECTIONS - RAMP D
STA 318+00.00

DESIGN AGENCY
EMH&T

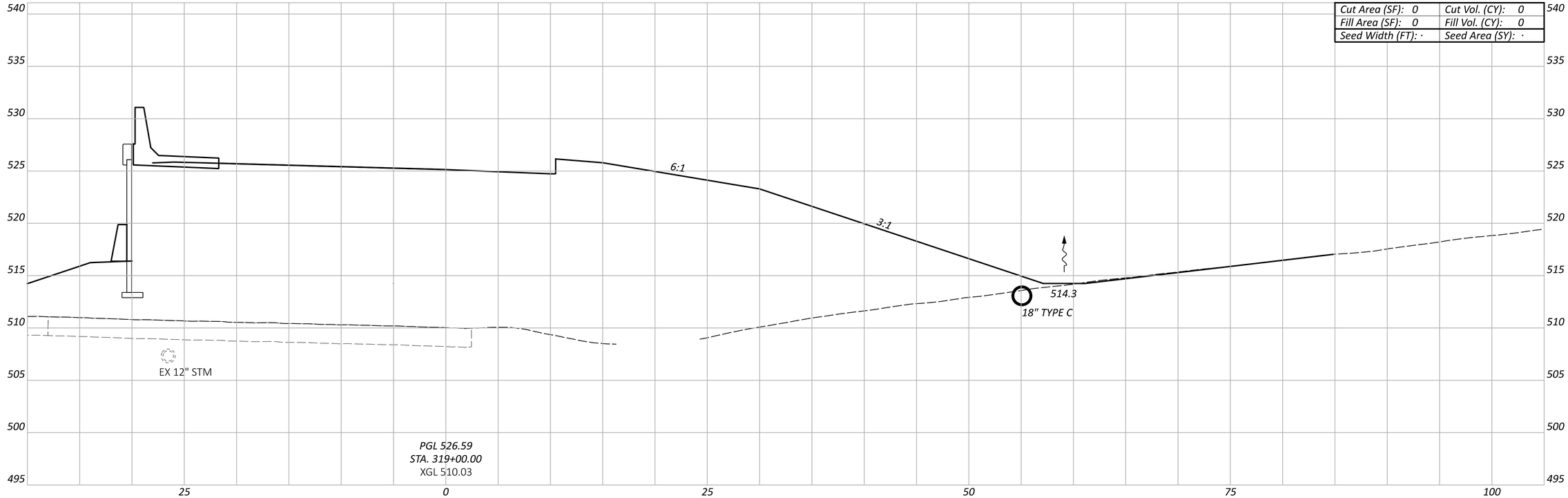
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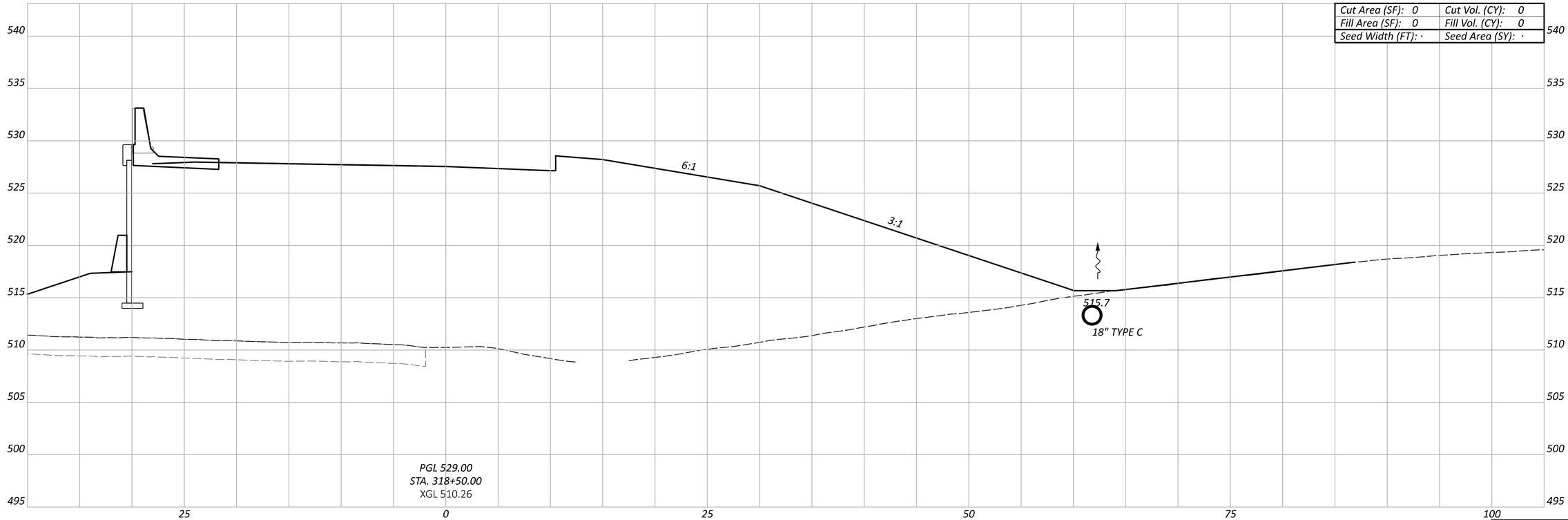
REVIEWER
MJR 06/21/24

PROJECT ID
114161

Sheet Totals		
Seeding	Cut	Fill
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SHEET	TOTAL
P.220	463





CROSS SECTIONS - RAMP D
STA 318+50.00 TO STA 319+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

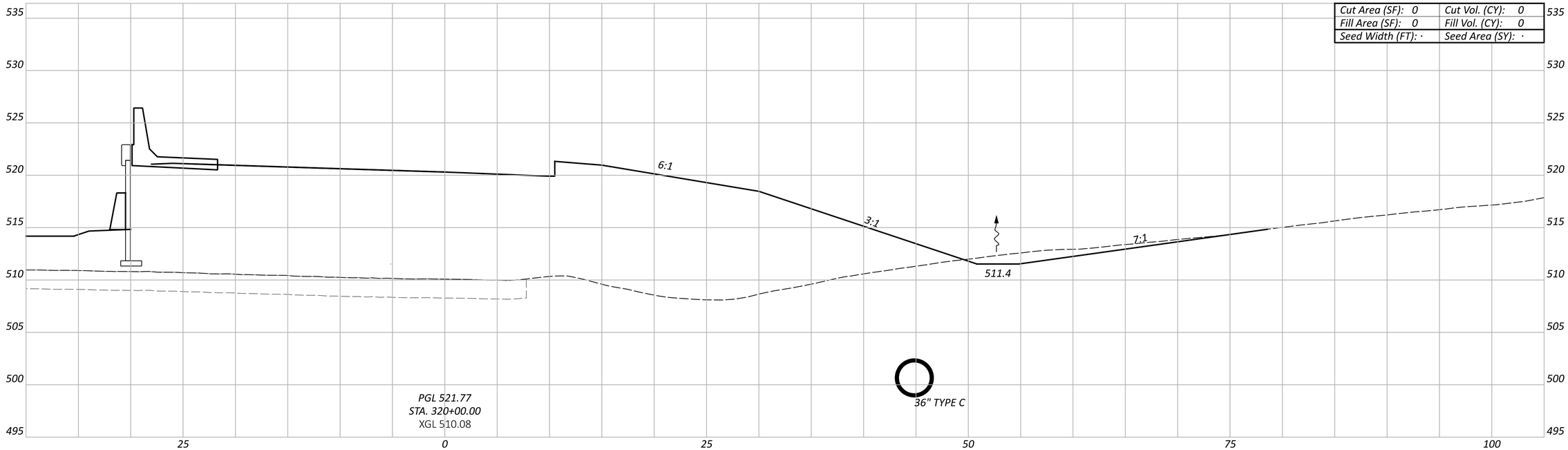
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MJR 06/21/24

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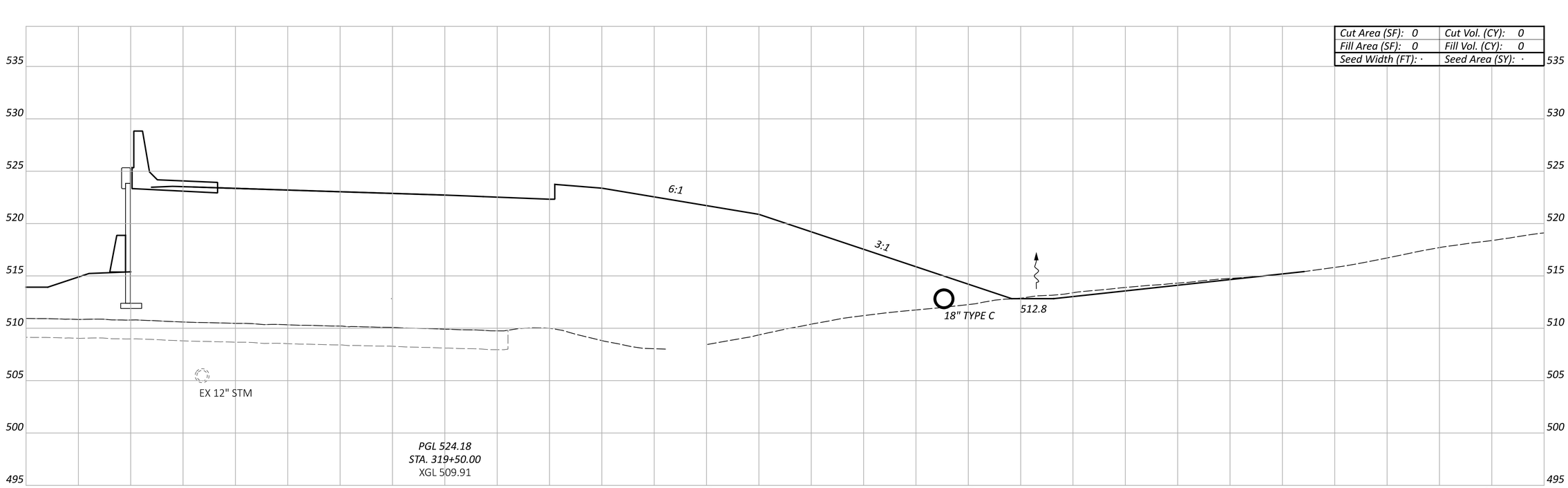
SHEET	TOTAL
P.221	463

HAM-75-1.95

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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

CROSS SECTIONS - RAMP D
STA 319+50.00 TO STA 320+00.00

HAM-75-1.95

MODEL: BLP_RAMP D - 319+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:26:17 PM USER: sbeal
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Sheet Totals		
Seeding	Cut	Fill
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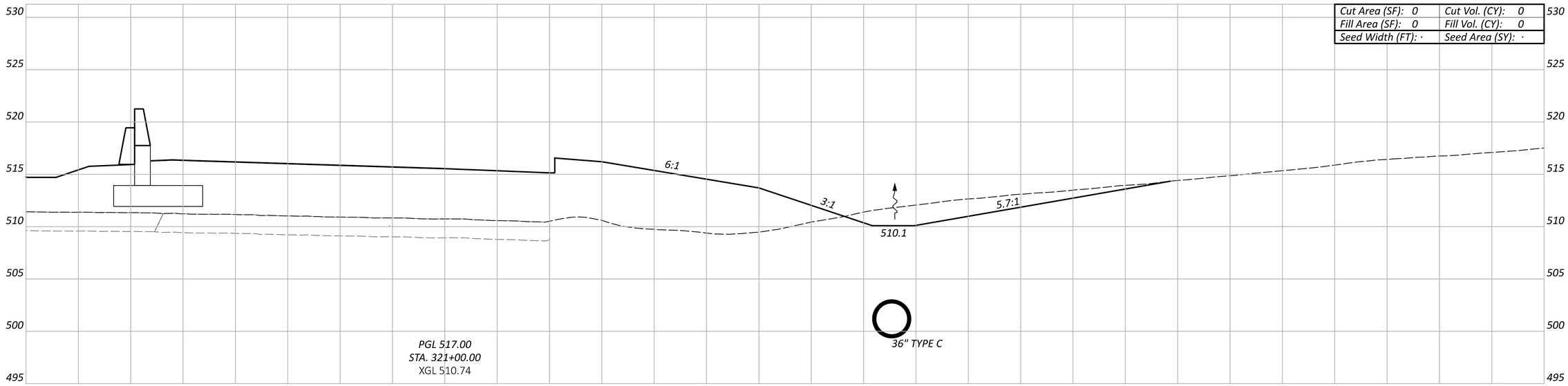
DESIGN AGENCY
EMH&T

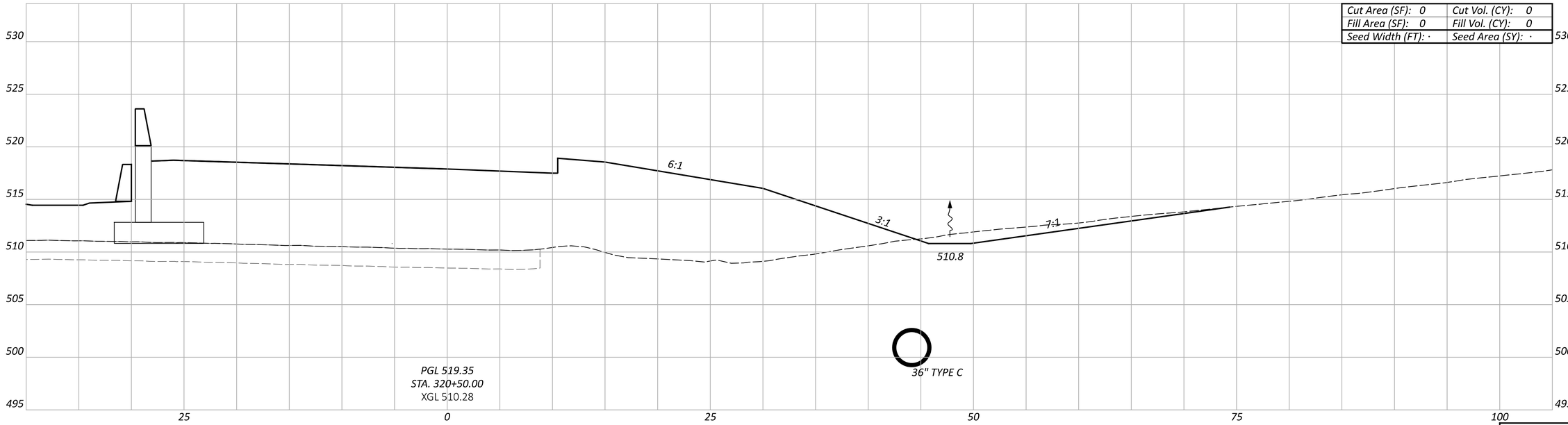
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.222 TOTAL 463





CROSS SECTIONS - RAMP D
STA 320+50.00 TO STA 321+00.00

HAM-75-1.95

MODEL: BLP_RAMP D - 320+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:26:35 PM USER: sbeal
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Sheet Totals		
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DESIGN AGENCY: EMH&T

DESIGNER: SJB

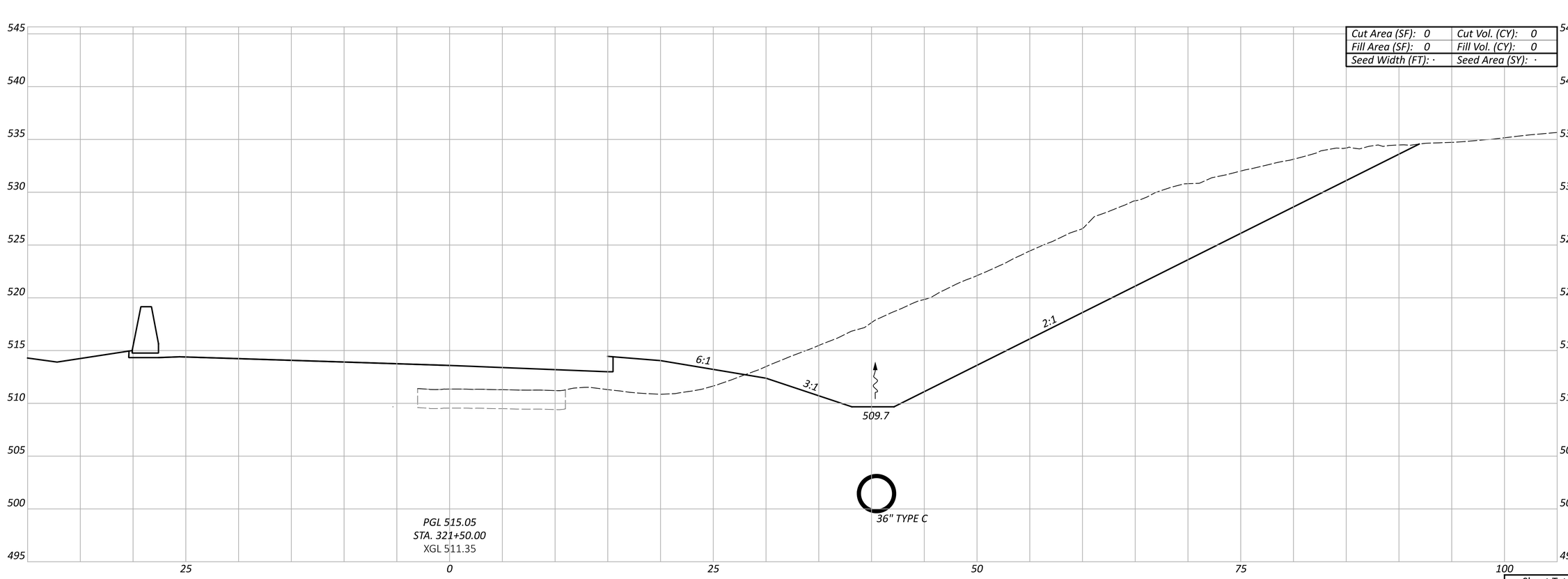
REVIEWER: MJR 06/21/24

PROJECT ID: 114161

SHEET: P.223 TOTAL: 463

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STA 321+50.00

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Sheet Totals		
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

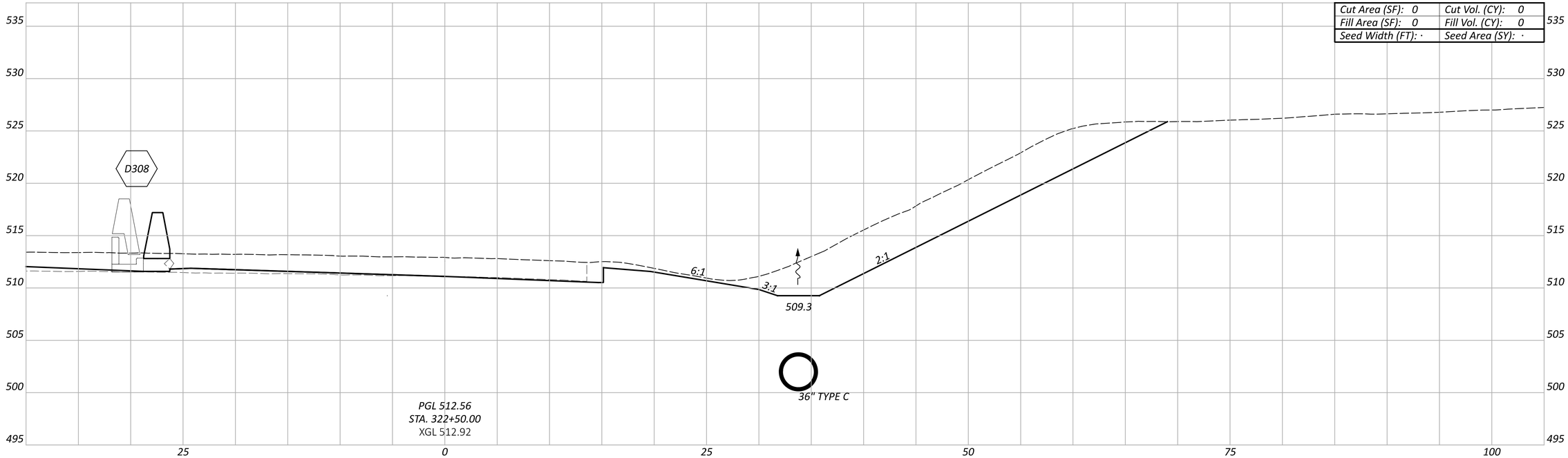
PROJECT ID
114161

SHEET P.224 TOTAL 463

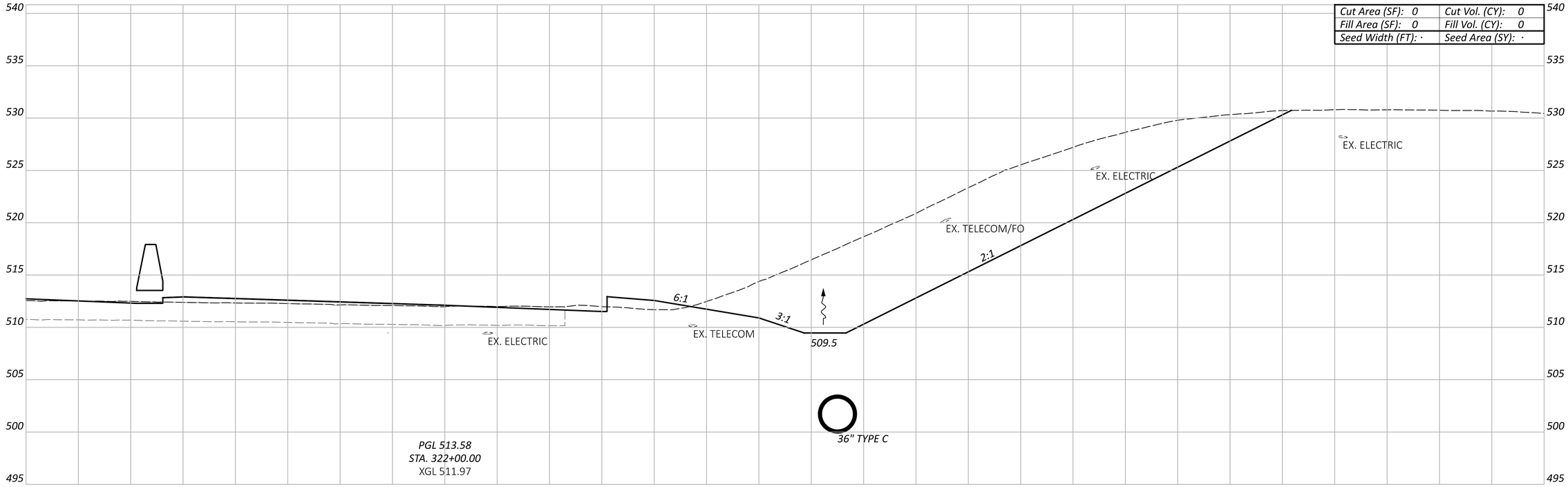
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CROSS SECTIONS - RAMP D
STA 322+00.00 TO STA 322+50.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

Sheet Totals		
Seeding	Cut	Fill
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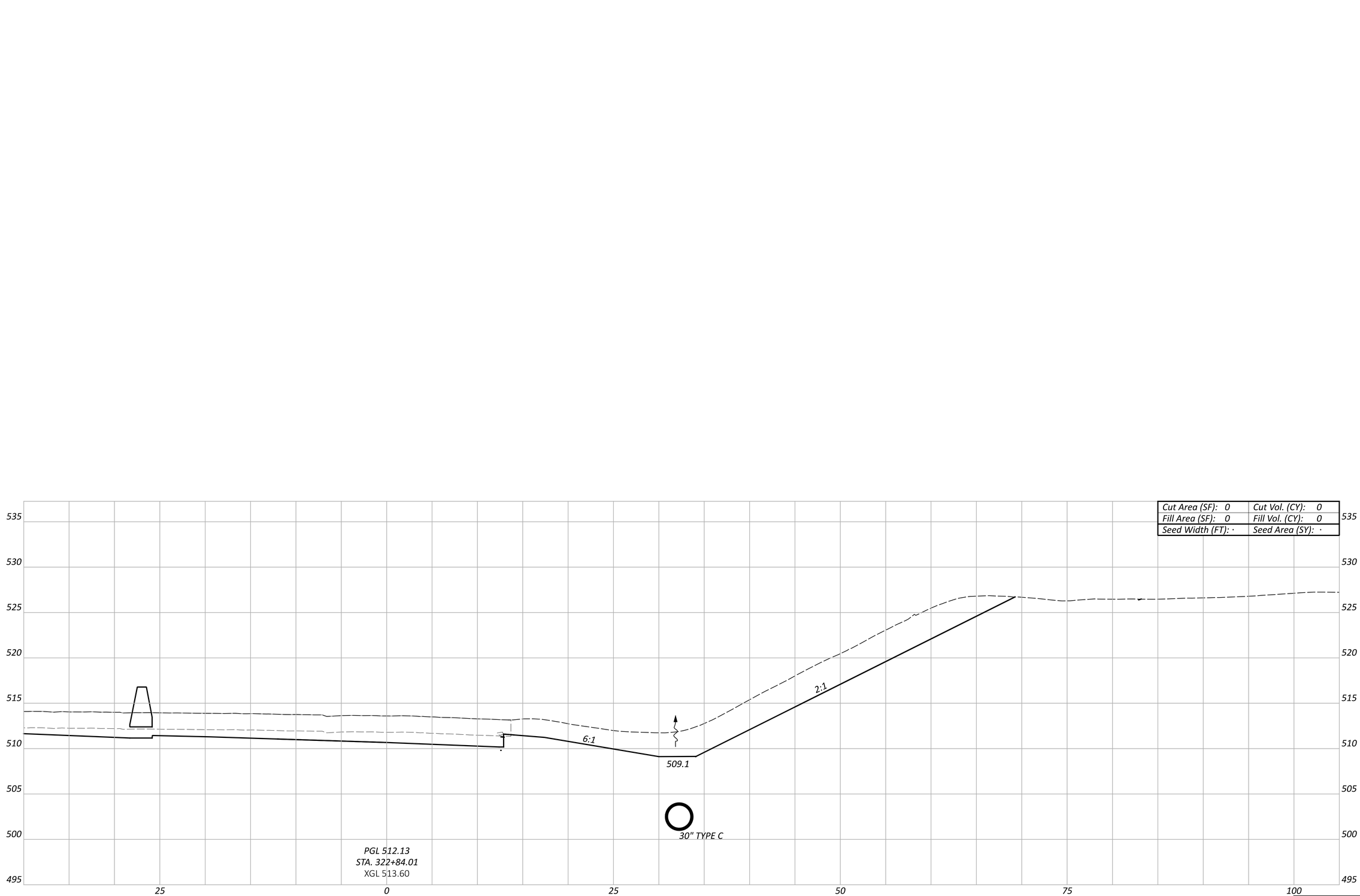
SHEET	TOTAL
P.225	463

HAM-75-1.95

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HAM-75-1.95

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CROSS SECTIONS - RAMP D
STA 322+84.01

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

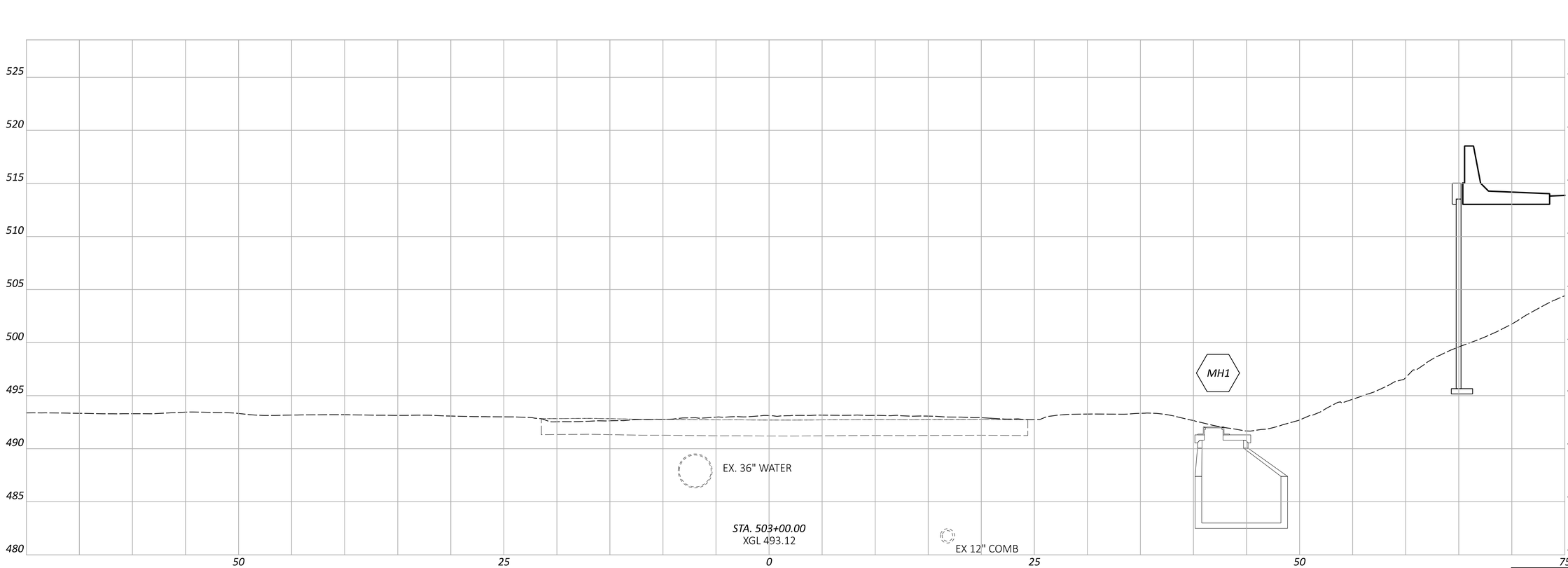
PROJECT ID
114161

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SHEET	TOTAL
P.226	463

HAM-75-1.95

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CROSS SECTIONS - RAMP G
STA 503+00.00

Sheet Totals		
Seeding	Cut	Fill
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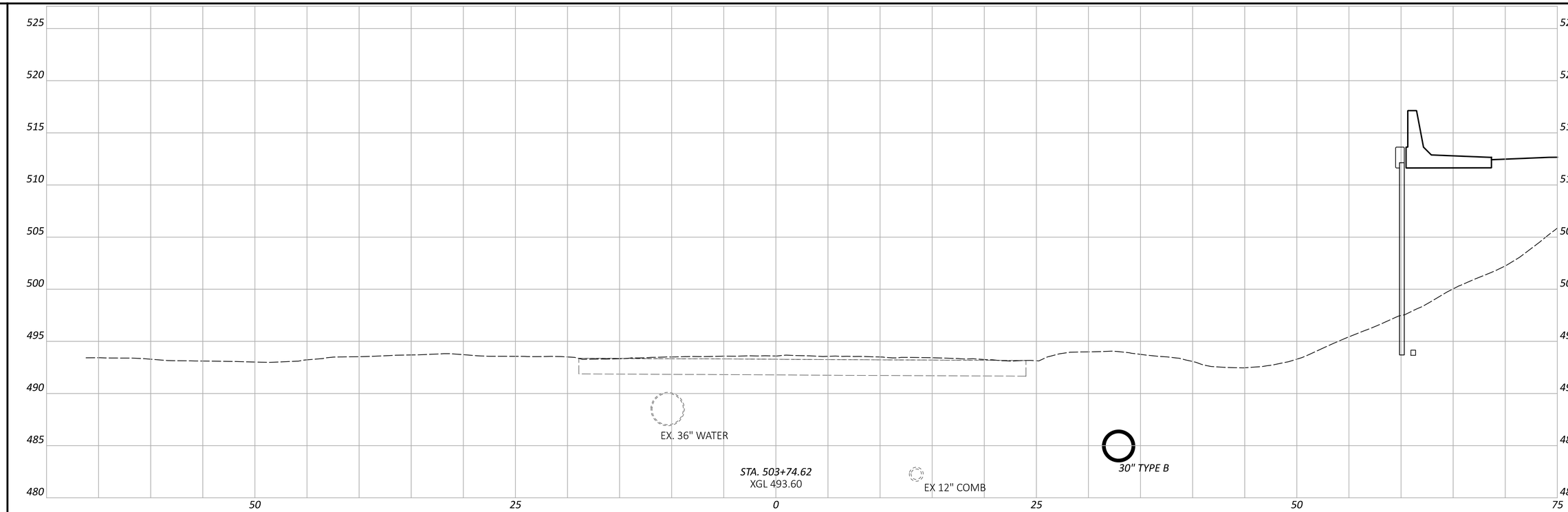
DESIGN AGENCY
EMH&T

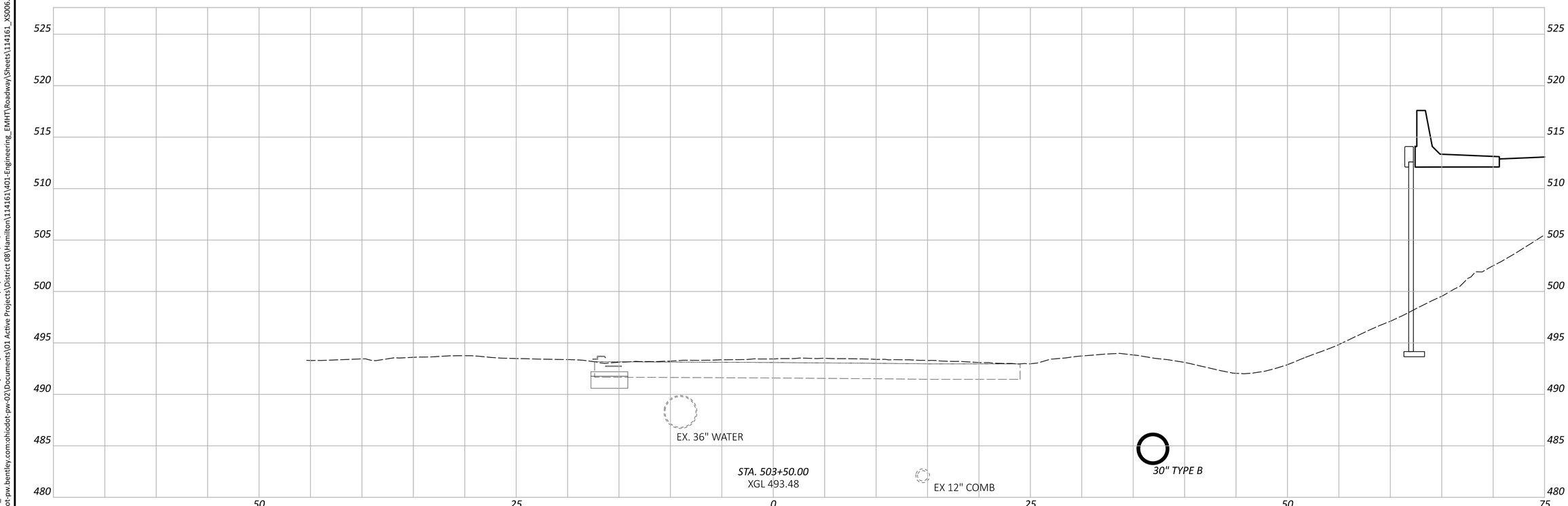
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.227 TOTAL 463





HAM-75-1.95

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CROSS SECTIONS - RAMP G
STA 503+50.00 TO STA

Sheet Totals		
Seeding	Cut	Fill
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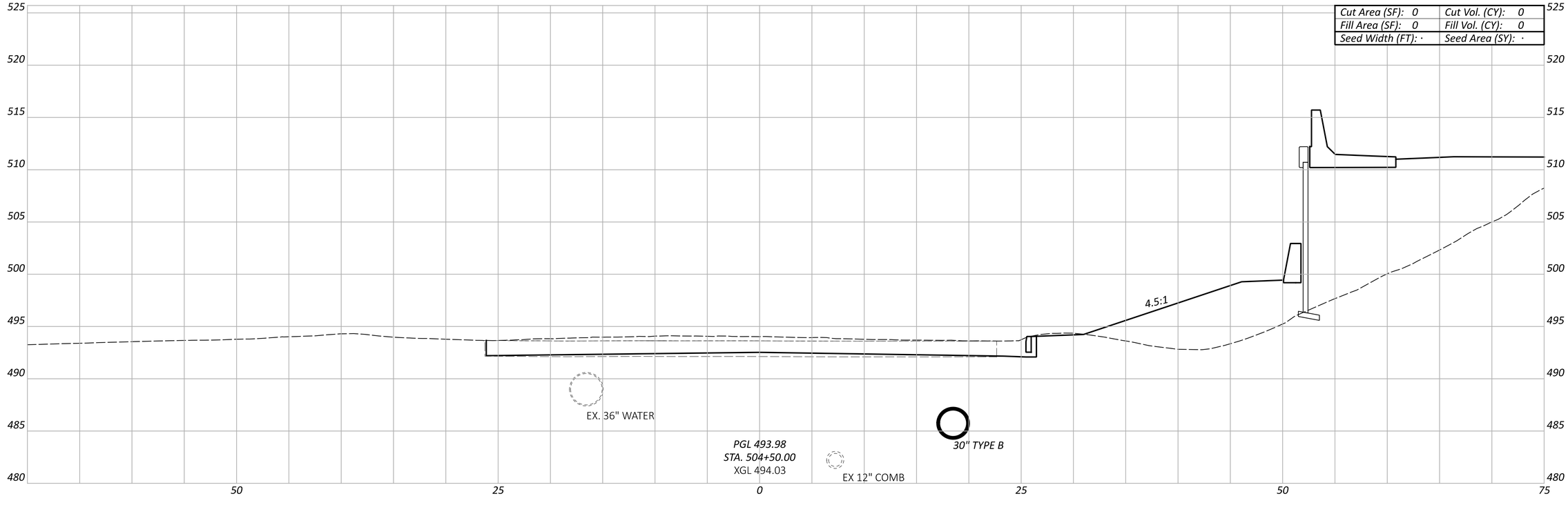
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EMHT

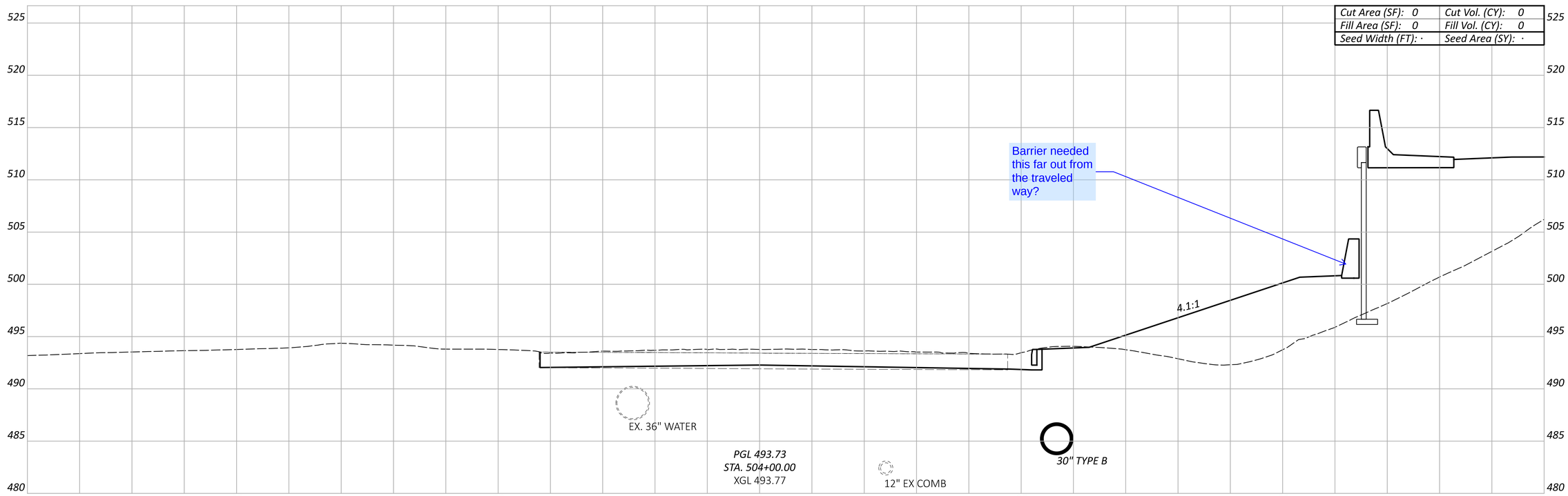
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.228 TOTAL 463





CROSS SECTIONS - RAMP G
STA 504+00.00 TO STA 504+50.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER SJB

REVIEWER MJR 06/21/24

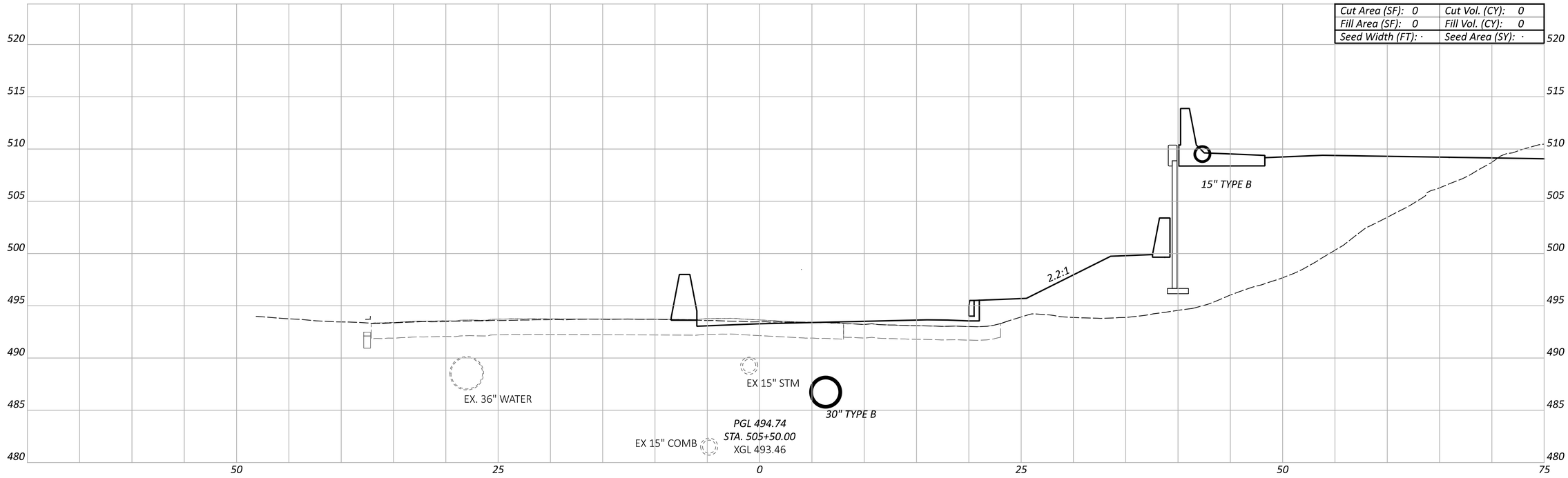
PROJECT ID 114161

SHEET P.229 | TOTAL 463

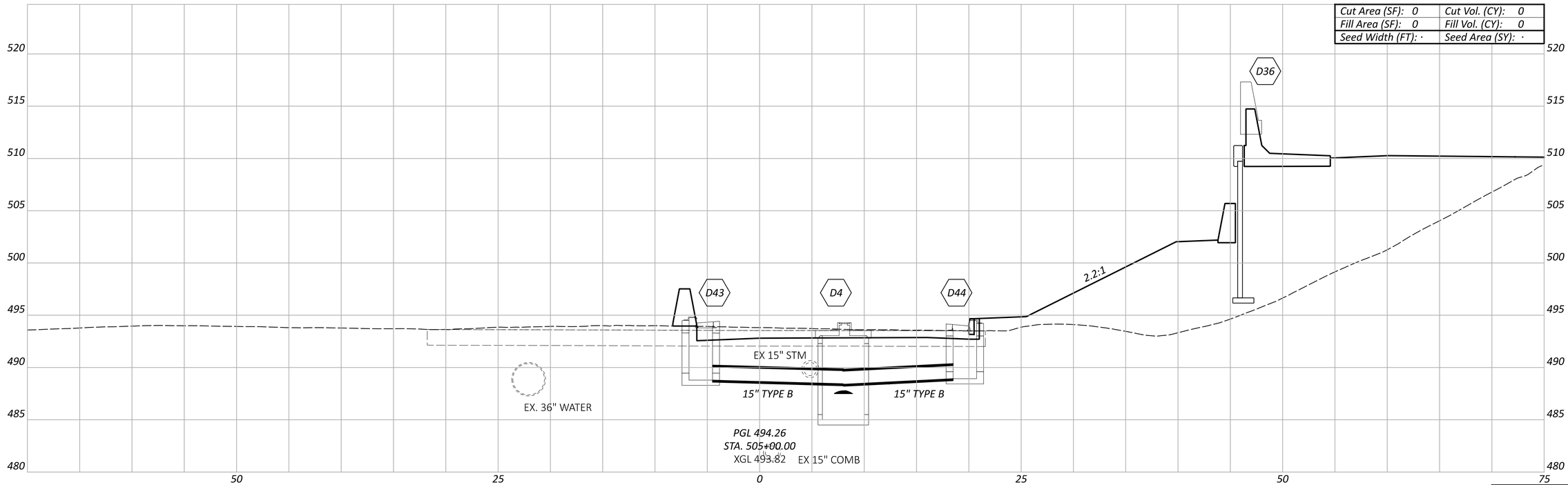
HAM-75-1.95

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Seed Width (FT): ·	Seed Area (SY): ·



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CROSS SECTIONS - RAMP G
STA 505+00.00 TO STA 505+50.00

DESIGN AGENCY
EMHT

DESIGNER
SJB

REVIEWER
MJR 06/21/24

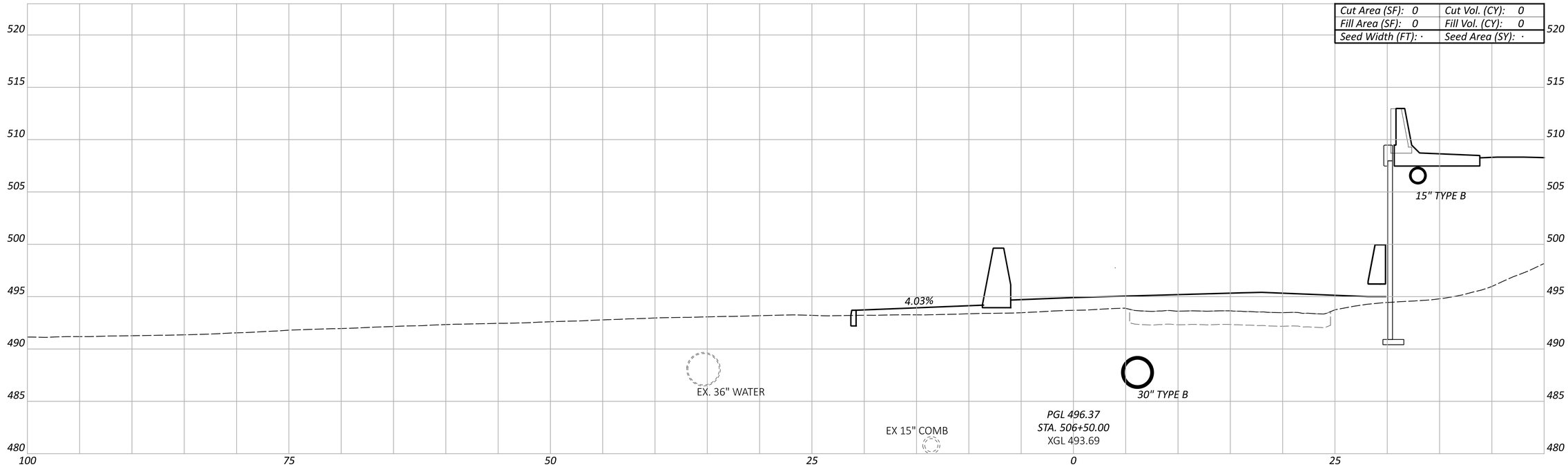
PROJECT ID
114161

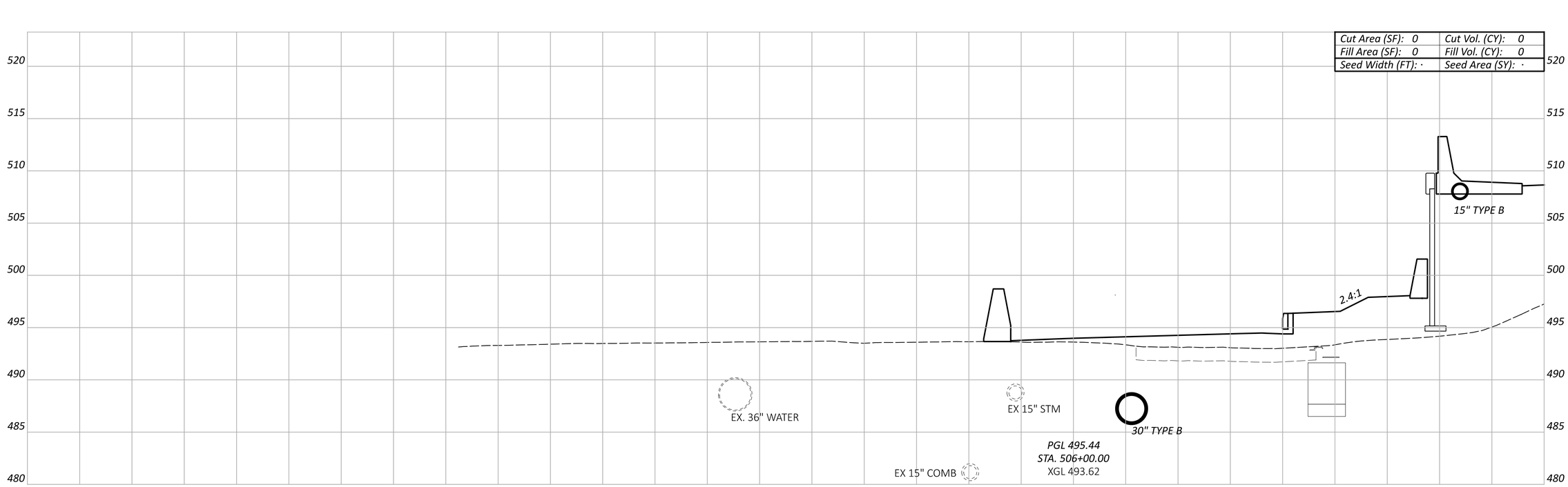
Sheet Totals		
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SHEET P.230 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - RAMP G
STA 506+00.00 TO STA 506+50.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY: EMH&T

DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.231
TOTAL	463

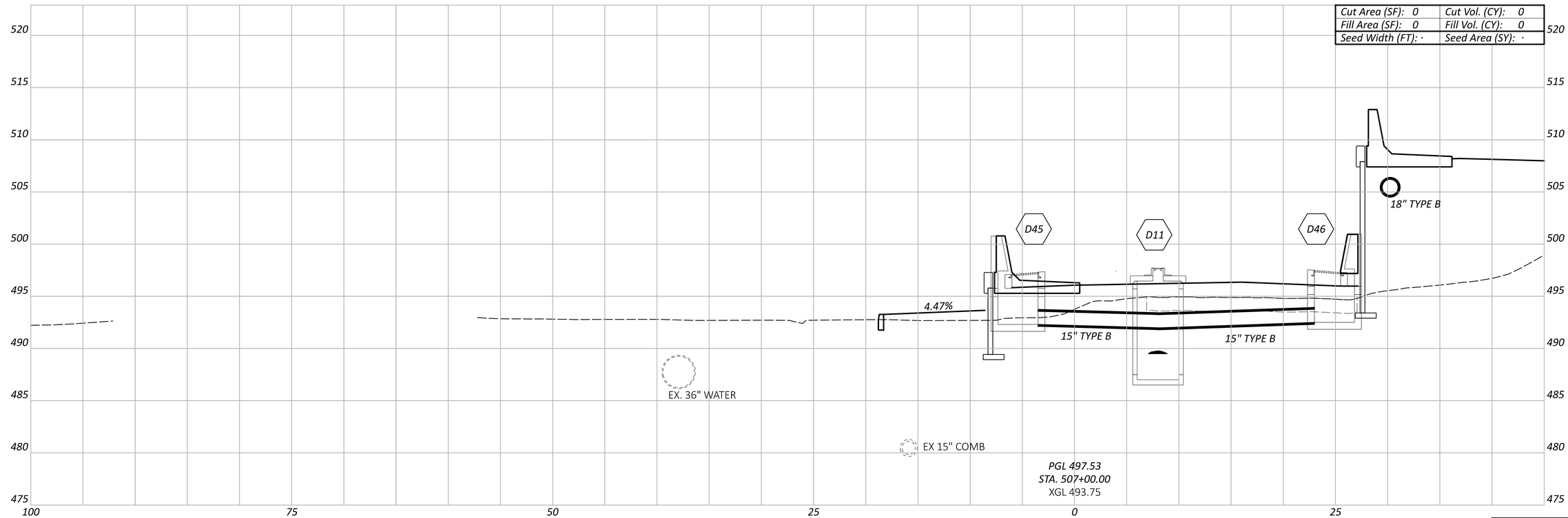
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HAM-75-1.95

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CROSS SECTIONS - RAMP G
STA 507+00.00



Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

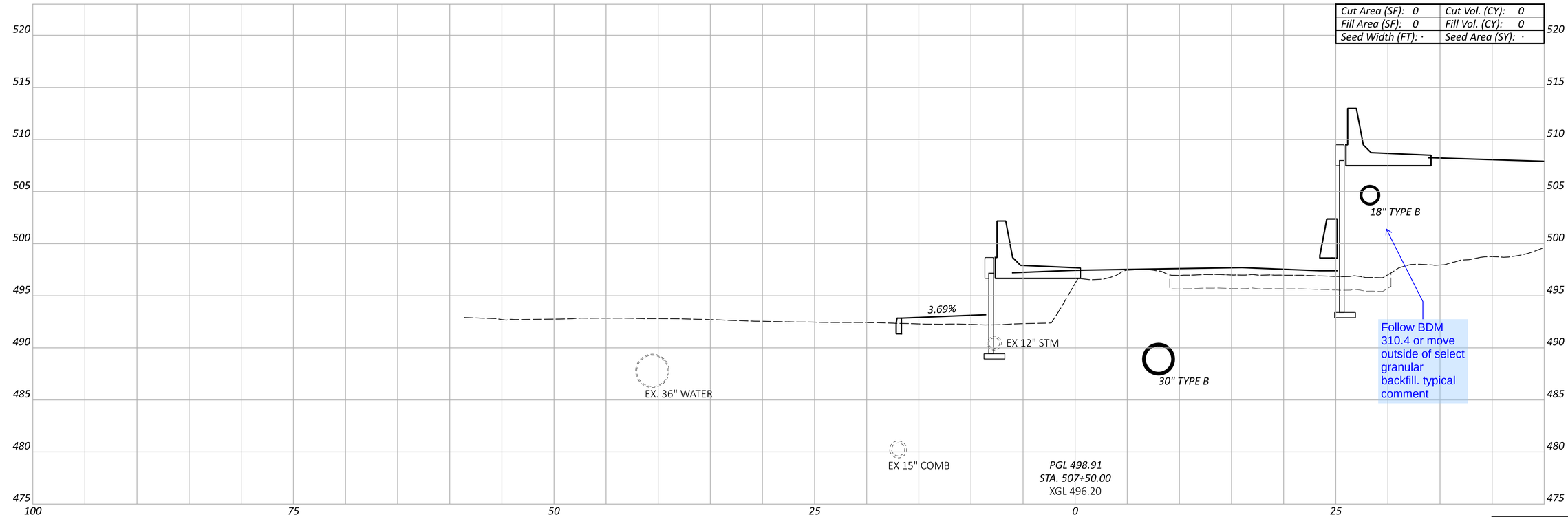
PROJECT ID
114161

SHEET P.232 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - RAMP G
STA 507+50.00



Sheet Totals		
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

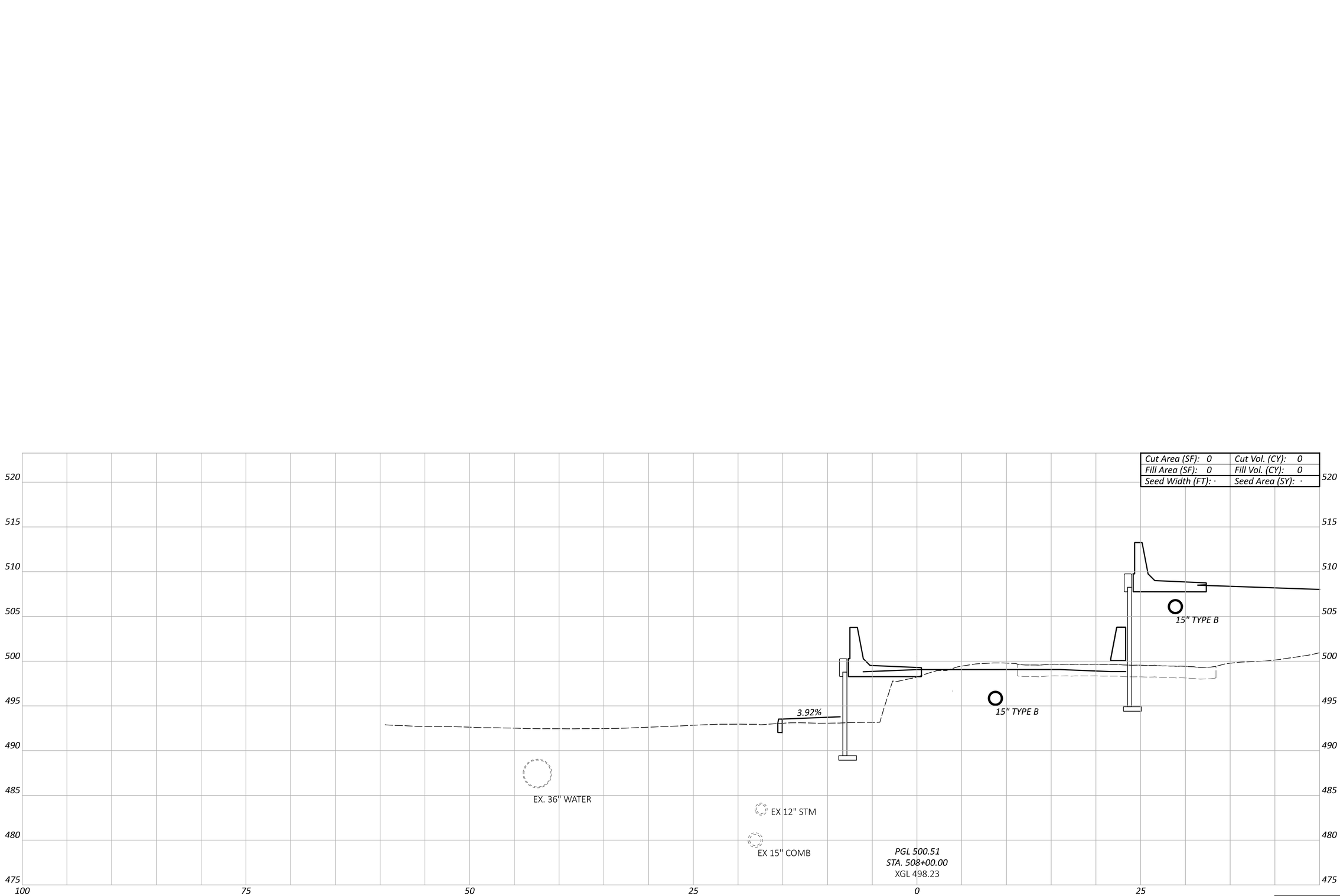
PROJECT ID
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SHEET P.233 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - RAMP G
STA 508+00.00



Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.234 TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP G - 508+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:30:04 PM USER: sbeal
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Seed Width (FT): ·	Seed Area (SY): ·

520 515 510 505 500 495 490 485 480 475

100 75 50 25 0 25

3.85%

15" TYPE B

15" TYPE B

EX. 36" WATER

EX 12" COMB

EX 12" STM

EX 12" COMB

PGL 502.35
STA. 508+50.00
XGL 499.05

CROSS SECTIONS - RAMP G
STA 508+50.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.235 TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP G - 509+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:30:16 PM USER: sbeal
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Seed Width (FT): ·	Seed Area (SY): ·

520
515
510
505
500
495
490
485
480
475

100 75 50 25 0 25

15" TYPE B

15" TYPE B

follow BDM 310.4 when within 10 ft of MSE wall select granular backfill. Typical comment all walls.

EX. 36" WATER

EX 12" STM

EX 12" STM

PGL 504.38
STA. 509+00.00
XGL 500.52

CROSS SECTIONS - RAMP G
STA 509+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

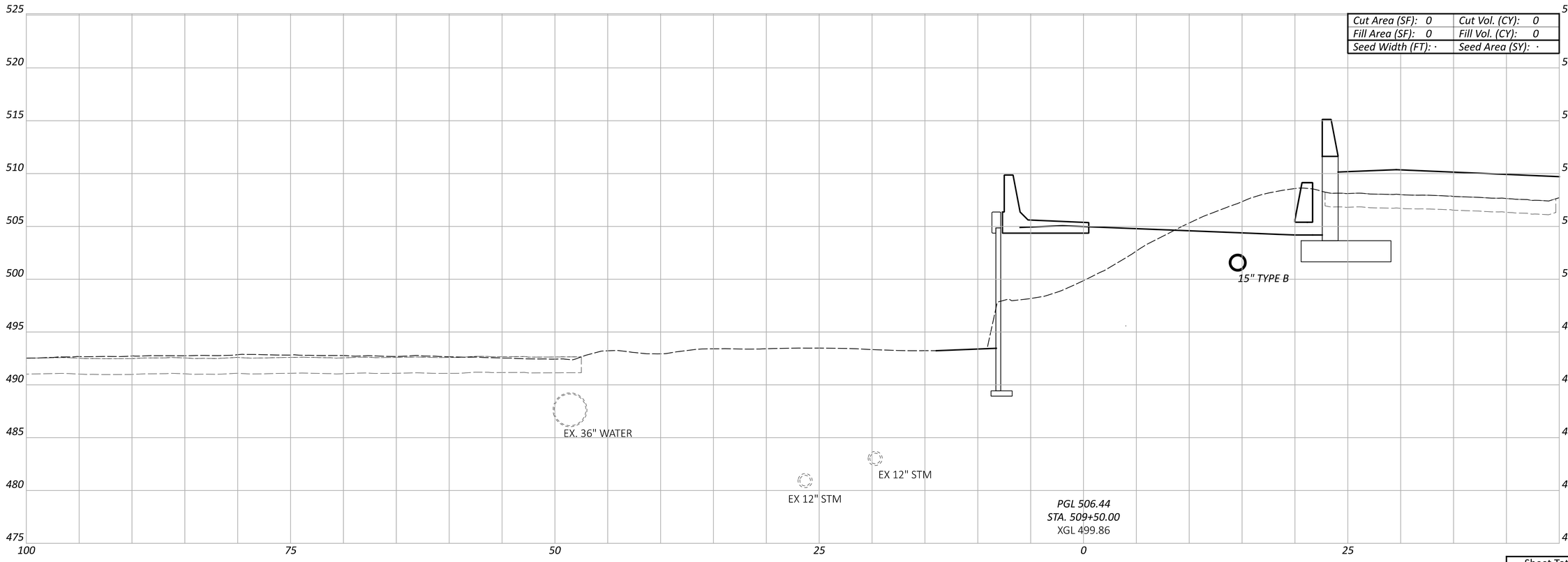
PROJECT ID
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Sheet Totals		
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SHEET P.236 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - RAMP G
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DESIGN AGENCY
EMH&T

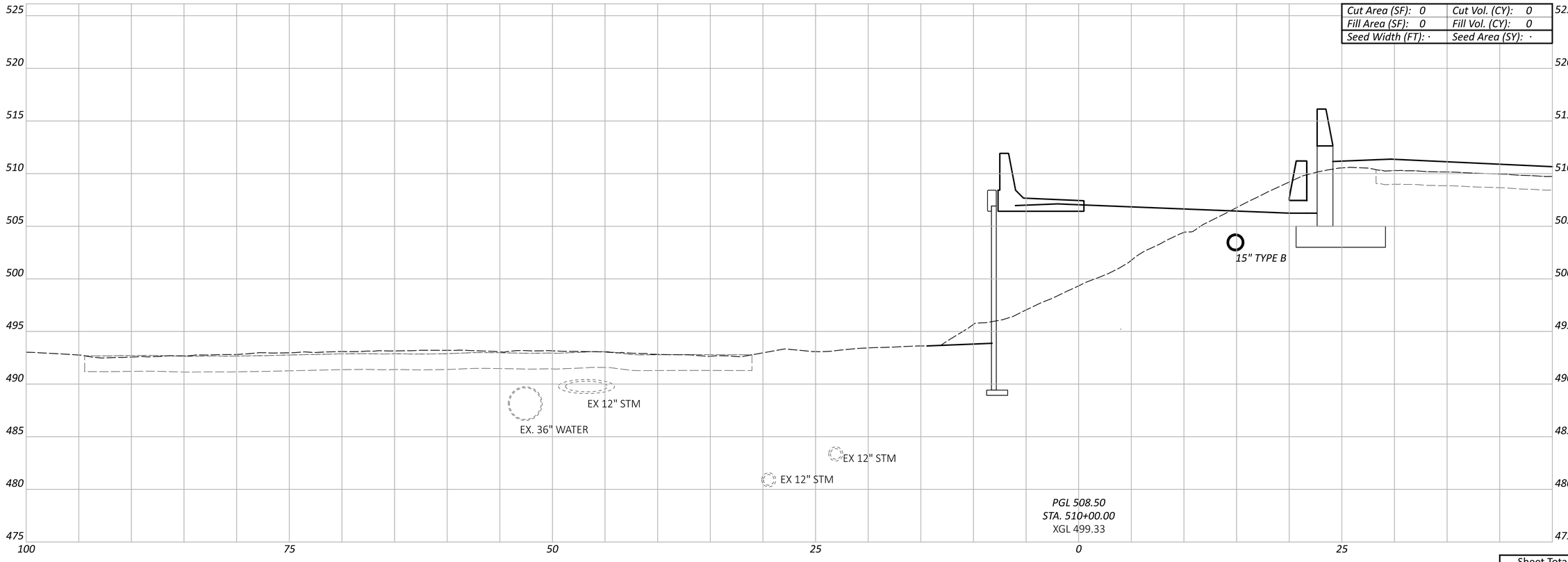
DESIGNER
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REVIEWER
MJR 06/21/24

PROJECT ID
114161

Sheet Totals		
Seeding	Cut	Fill
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SHEET	TOTAL
P.237	463



CROSS SECTIONS - RAMP G
STA 510+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.238 | TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP G - 510+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:30:41 PM USER: sbeal
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HAM-75-1.95

MODEL: BLP_RAMP G - 510+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:30:53 PM USER: sbeal
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CROSS SECTIONS - RAMP G
STA 510+50.00

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Seed Width (FT): ·	Seed Area (SY): ·

525 520 515 510 505 500 495 490 485 480

100 75 50 25 0 25

EX. 8" WATER

EX. 36" WATER

EX 12" STM

15" TYPE B

PGL 510.56
STA. 510+50.00
XGL 498.45

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

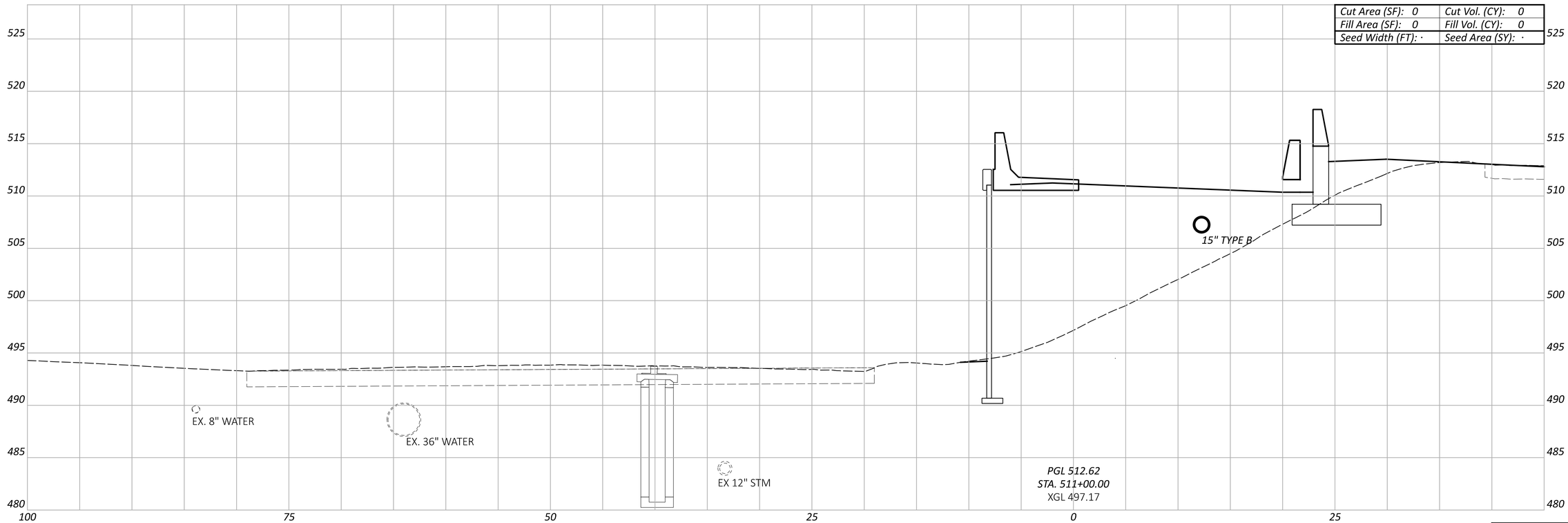
PROJECT ID
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SHEET P.239 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - RAMP G
STA 511+00.00



Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

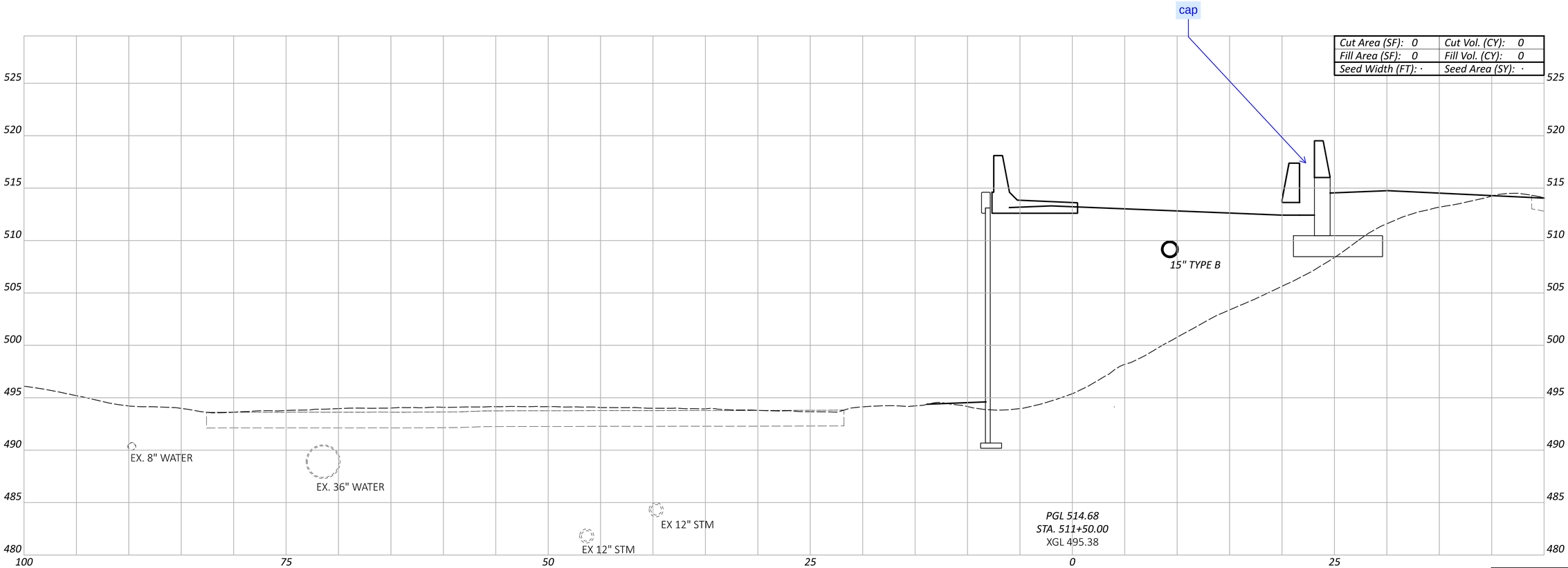
PROJECT ID
114161

SHEET P.240 TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP G - 511+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:31:16 PM USER: sbeal
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CROSS SECTIONS - RAMP G
STA 511+50.00



Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.241 TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP G - 512+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:31:28 PM USER: sbeal
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CROSS SECTIONS - RAMP G
STA 512+00.00

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

D14

15" TYPE B

4:1 2:1

493.8

EX. 8" WATER

EX. 36" WATER

EX 12" STM

EX 12" STM

PGL 516.74
STA. 512+00.00
XGL 494.52

530 525 520 515 510 505 500 495 490 485 480

100 75 50 25 0 25

Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.242 TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP G - 512+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:31:40 PM USER: sbeal
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Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

530
525
520
515
510
505
500
495
490
485
480

100 75 50 25 0 25

EX. 36" WATER

EX 12" STM

15" TYPE B

4:1

2:1

493.4

PGL 518.71
STA. 512+50.00
XGL 494.34

Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - RAMP G
STA 512+50.00

DESIGN AGENCY
EMHT

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

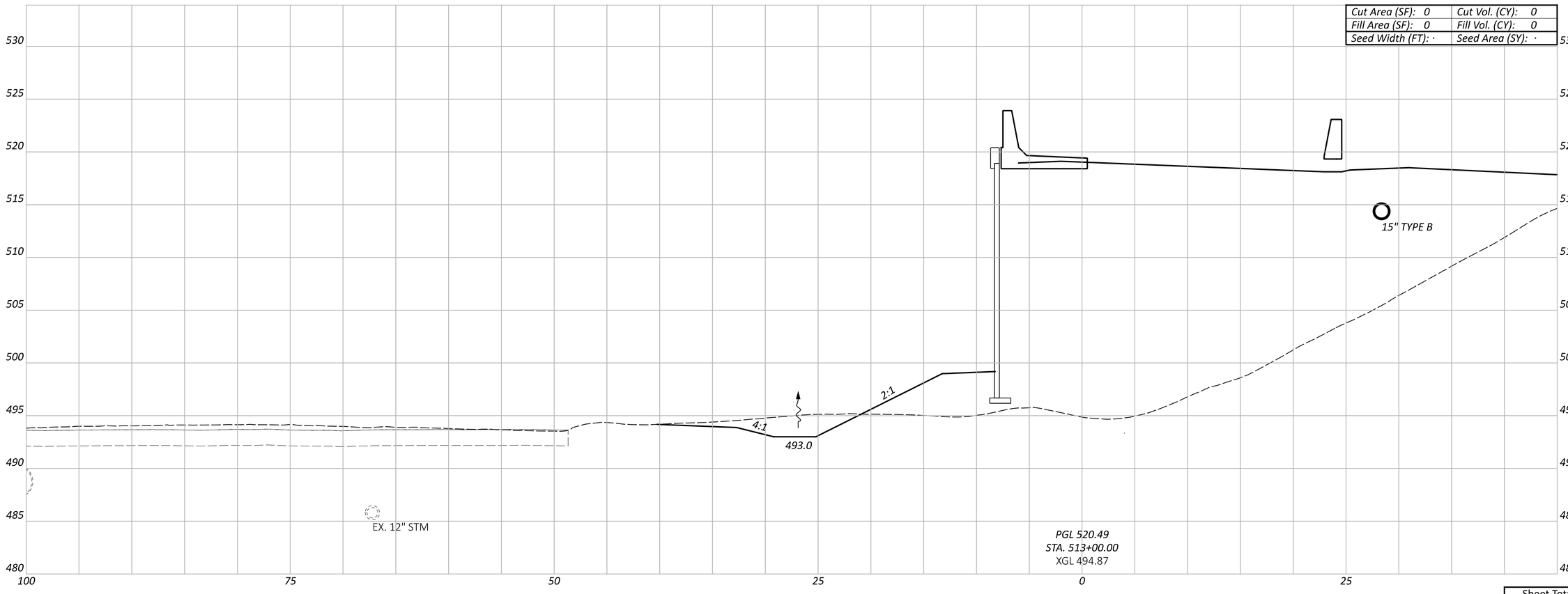
SHEET P.243 | TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - RAMP G
STA 513+00.00

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMHT

DESIGNER
SJB

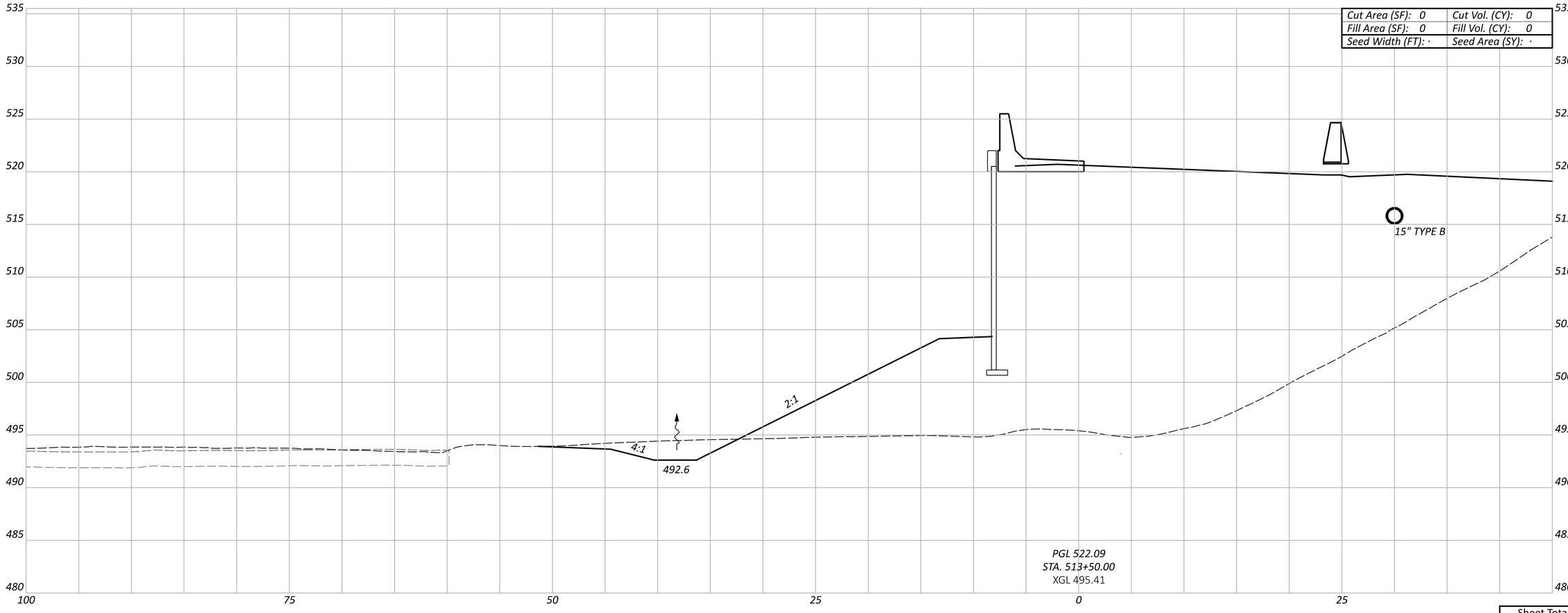
REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.244 | TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - RAMP G
STA 513+50.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMHT

DESIGNER
SJB

REVIEWER
MJR 06/21/24

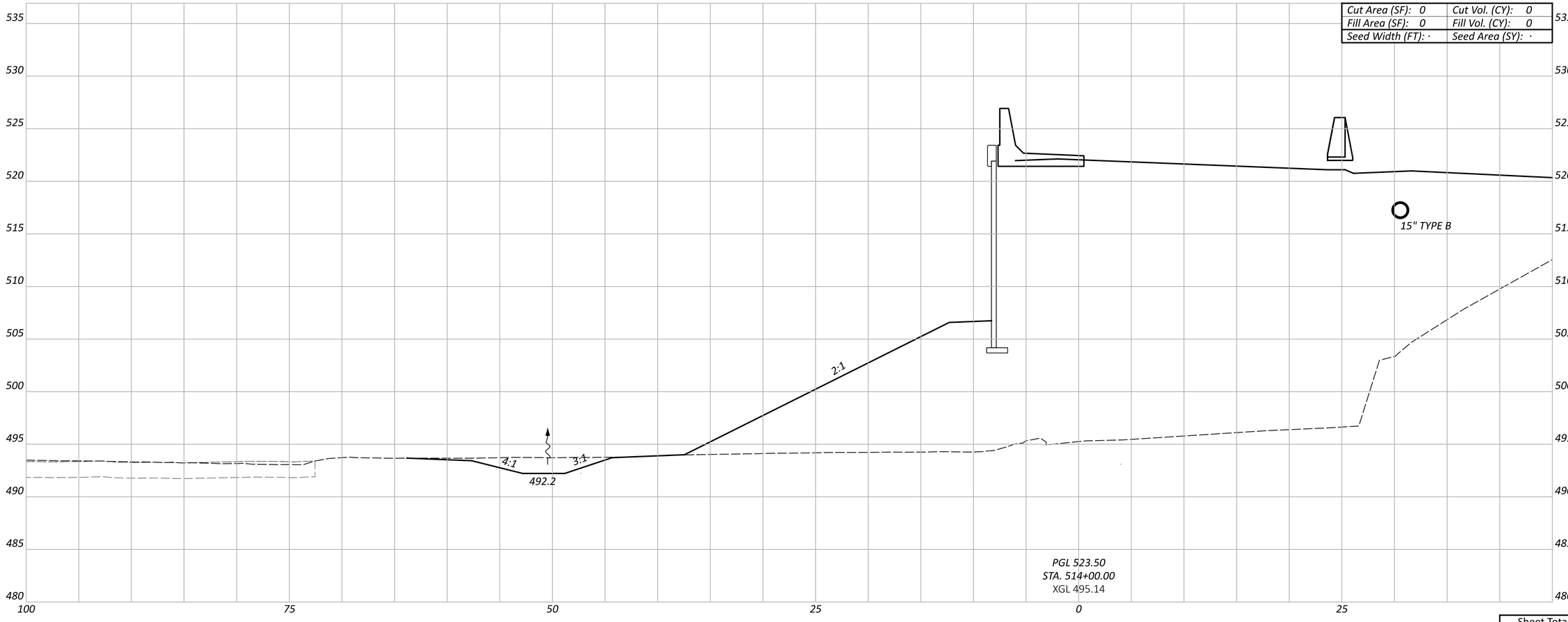
PROJECT ID
114161

SHEET	TOTAL
P.245	463

HAM-75-1.95

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Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - RAMP G
STA 514+00.00

DESIGN AGENCY
EMHT

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

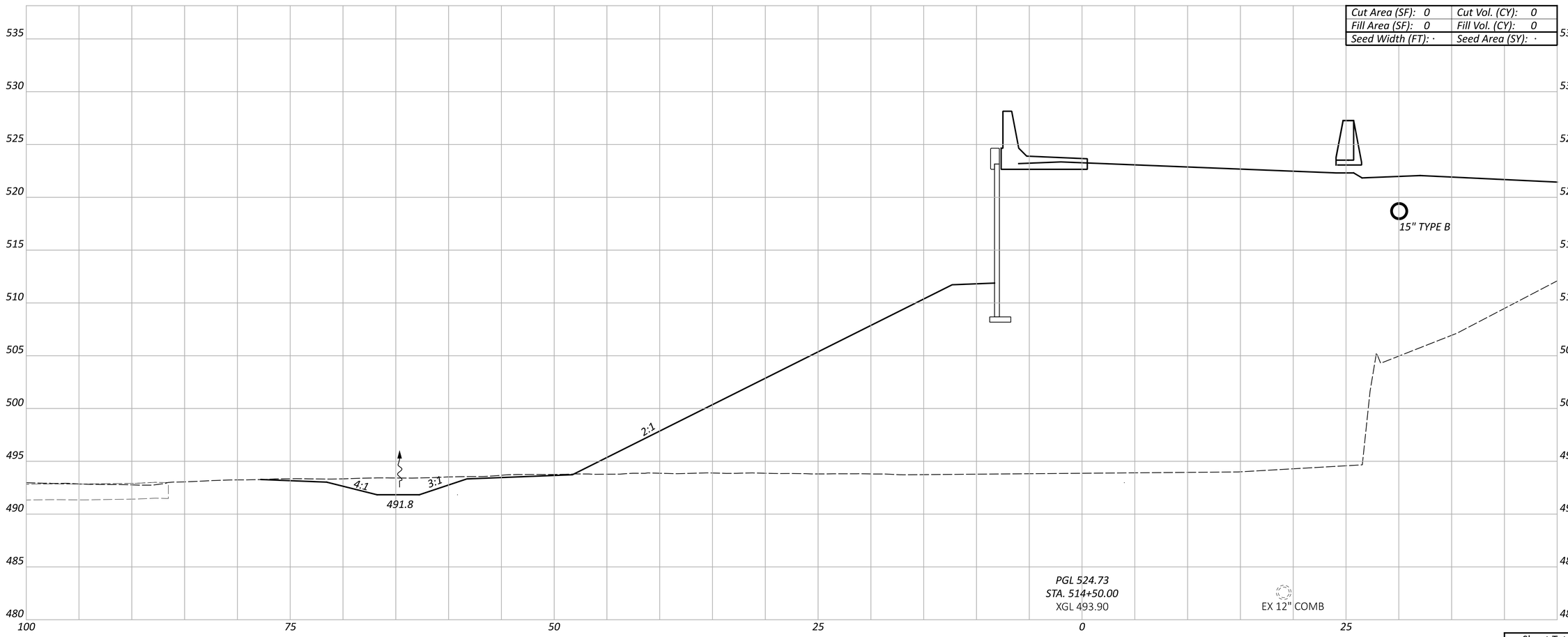
SHEET	TOTAL
P.246	463

HAM-75-1.95

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CROSS SECTIONS - RAMP G
STA 514+50.00

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMHT

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.247 | TOTAL 463

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

535
530
525
520
515
510
505
500
495
490
485
480

100 75 50 25 0 25

4:1
3:1
2:1
491.4
15" TYPE B

PGL 525.77
STA. 515+00.00
XGL 493.66
EX 12" COMB

Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - RAMP G
STA 515+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

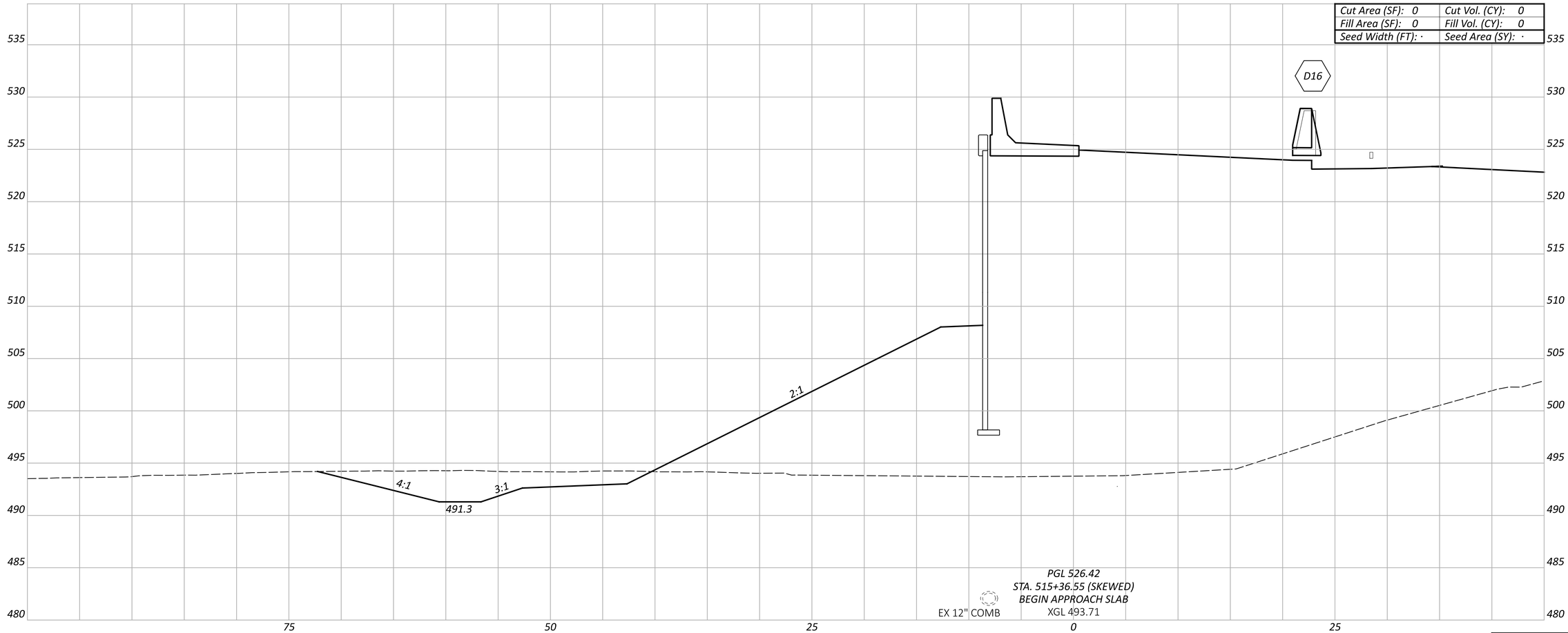
PROJECT ID
114161

SHEET P.248 TOTAL 463

HAM-75-1.95

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Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - RAMP G
STA 515+36.55

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

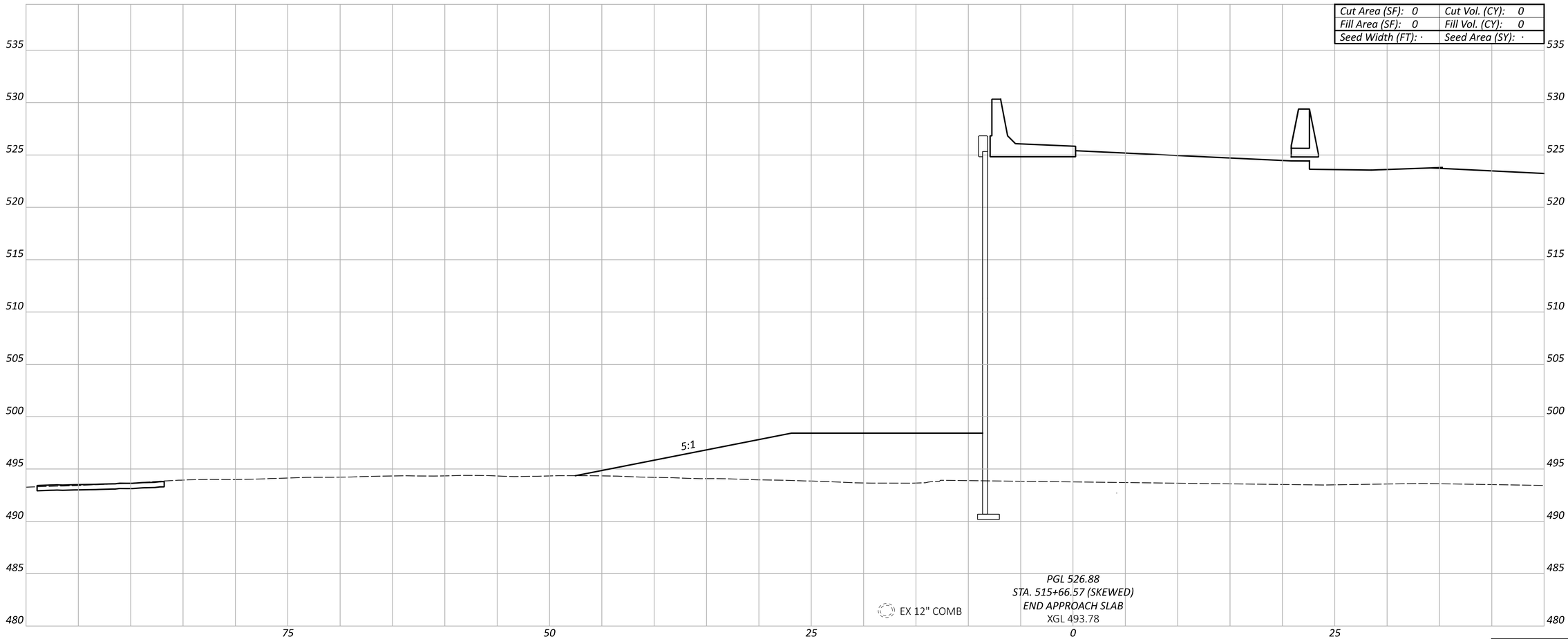
PROJECT ID
114161

SHEET	TOTAL
P.249	463

HAM-75-1.95

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Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
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HAM-75-1.95

MODEL: BLP_RAMP G - 515+66.57 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:32:58 PM USER: sbeal
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CROSS SECTIONS - RAMP G
STA 515+66.57

DESIGN AGENCY
EMH&T

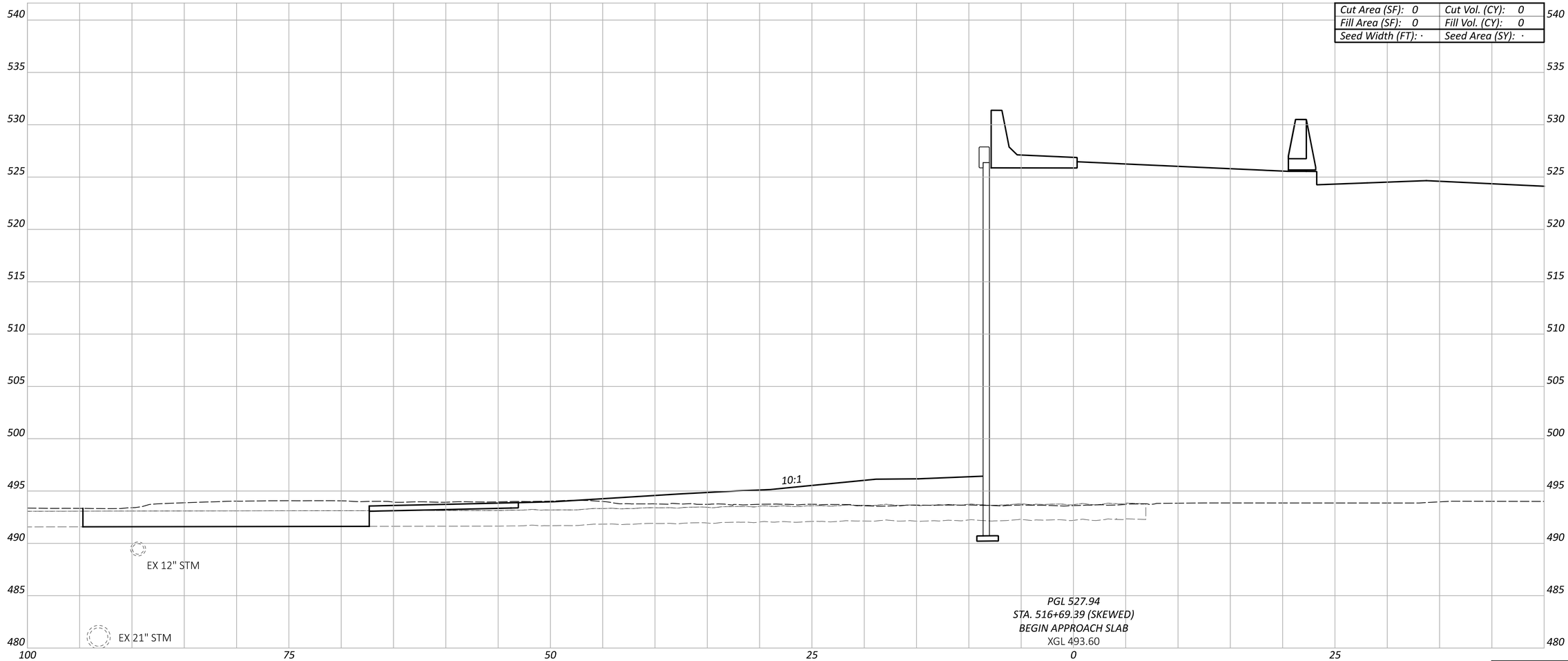
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.250 | TOTAL 463

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - RAMP G
STA 516+69.39

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.251 | TOTAL 463

HAM-75-1.95

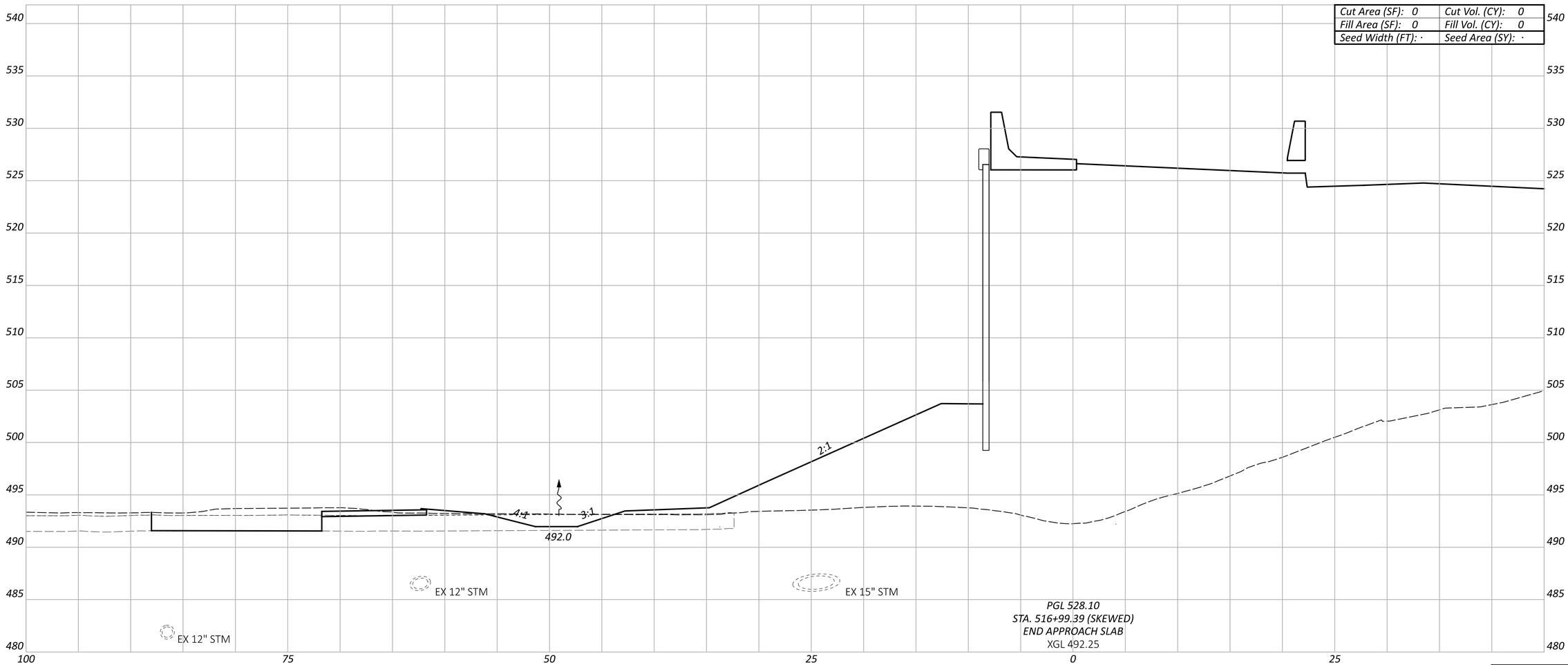
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HAM-75-1.95

MODEL: BLP_RAMP G - 516+99.39 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:33:22 PM USER: sbeal
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CROSS SECTIONS - RAMP G
STA 516+99.39

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

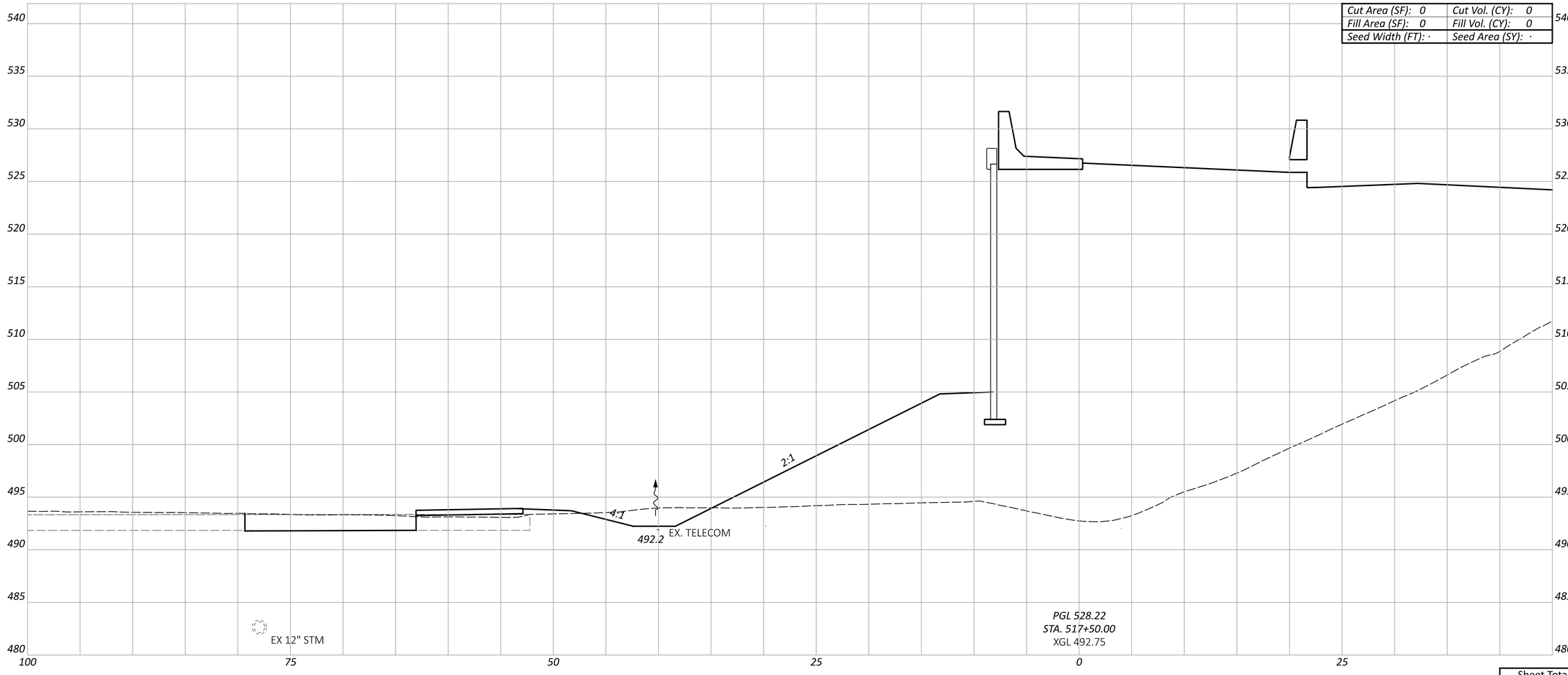
SHEET P.252 | TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - RAMP G
STA 517+50.00

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMH&T

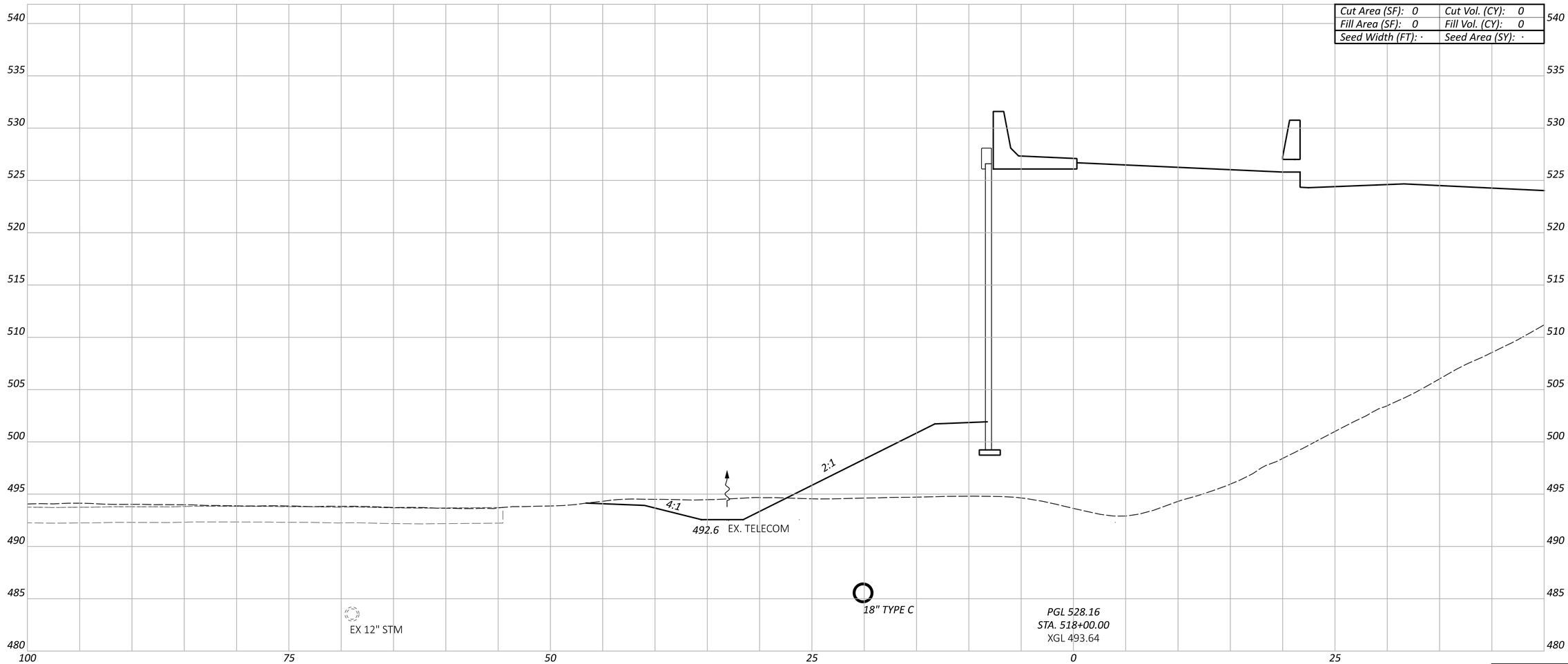
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.253 TOTAL 463

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - RAMP G
STA 518+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.254 | TOTAL 463

HAM-75-1.95

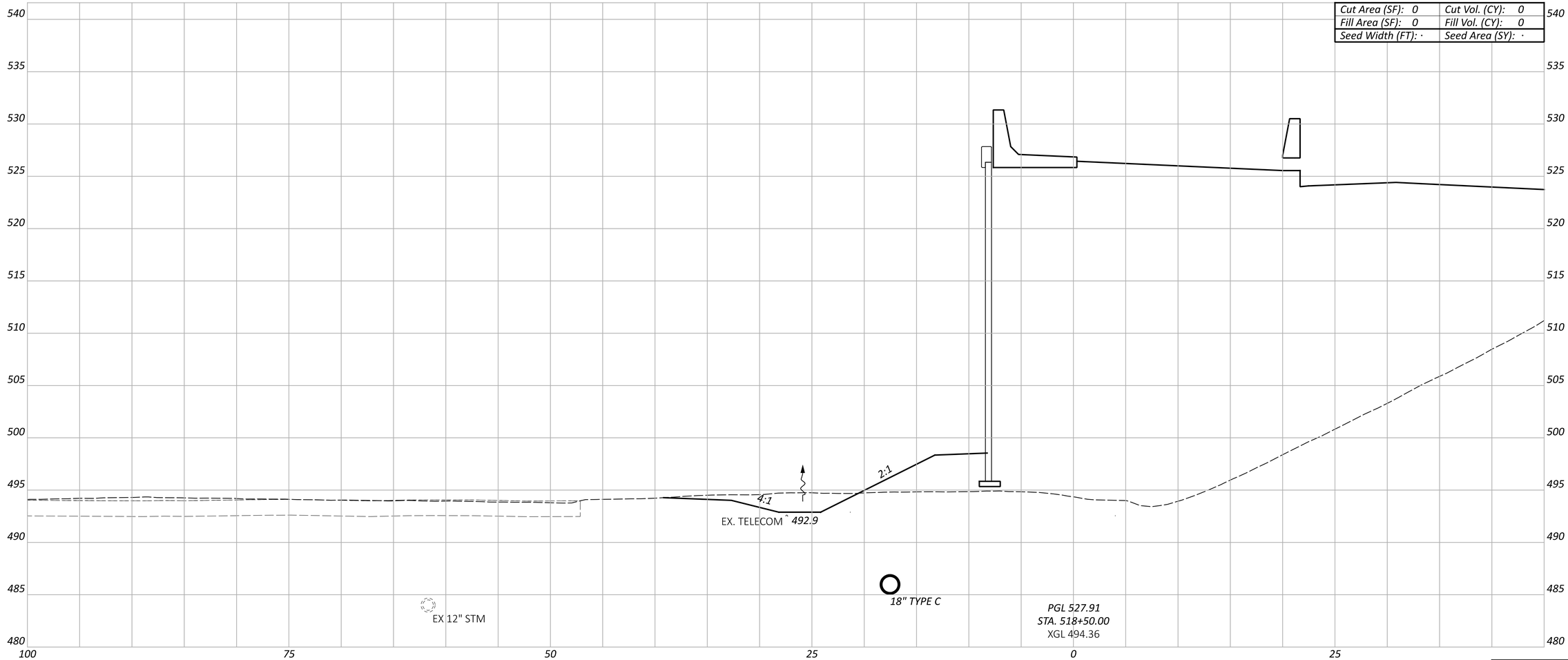
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HAM-75-1.95

MODEL: BLP_RAMP G - 518+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:33:49 PM USER: sbeal
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CROSS SECTIONS - RAMP G
STA 518+50.00

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMHT

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.255 TOTAL 463

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

℄ CONST RAMP B

4:1

2:1

493.2

EX. TELECOM

EX 12" STM

18" TYPE C

PGL 527.48
STA. 519+00.00
XGL 494.72

Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - RAMP G
STA 519+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

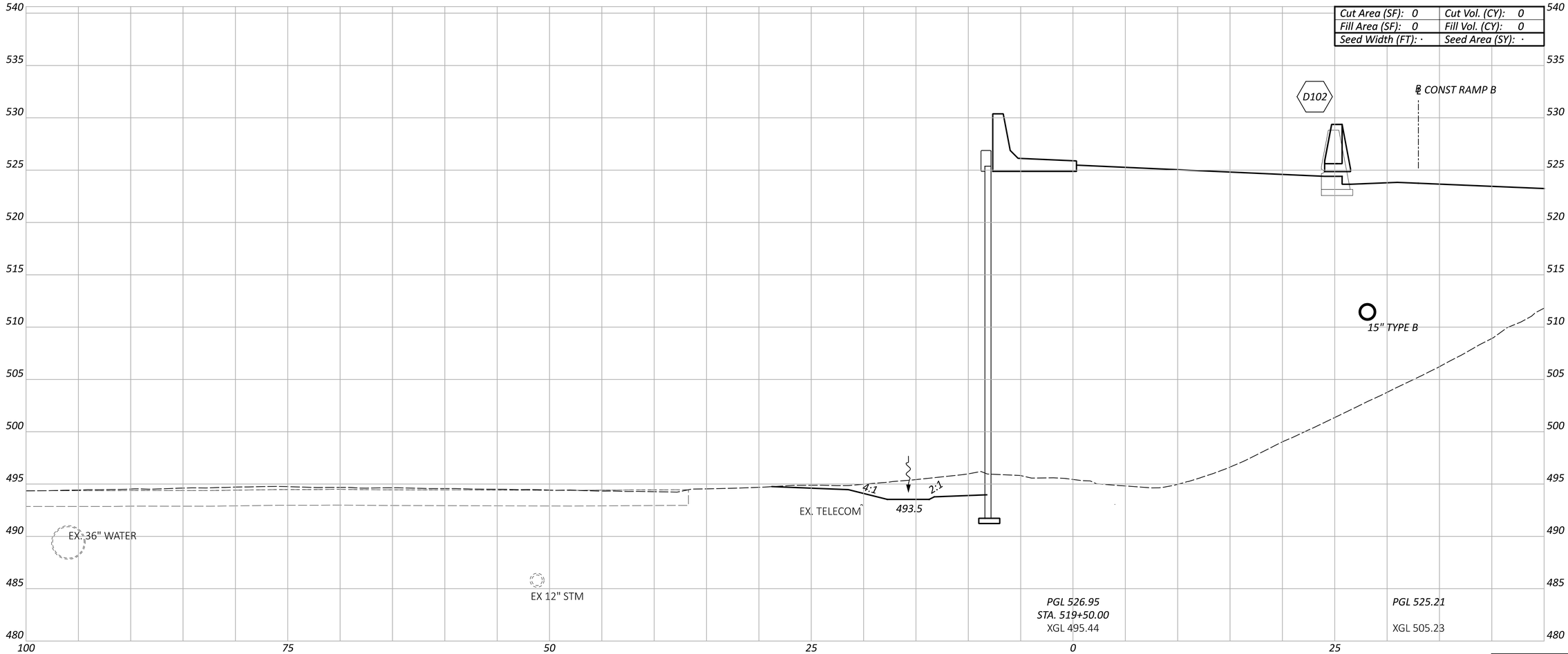
PROJECT ID
114161

SHEET P.256 TOTAL 463

HAM-75-1.95

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Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
·	·	·

HAM-75-1.95

MODEL: BLP_RAMP G - 519+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:34:00 PM USER: sbeal
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CROSS SECTIONS - RAMP G
STA 519+50.00

DESIGN AGENCY
EMH&T

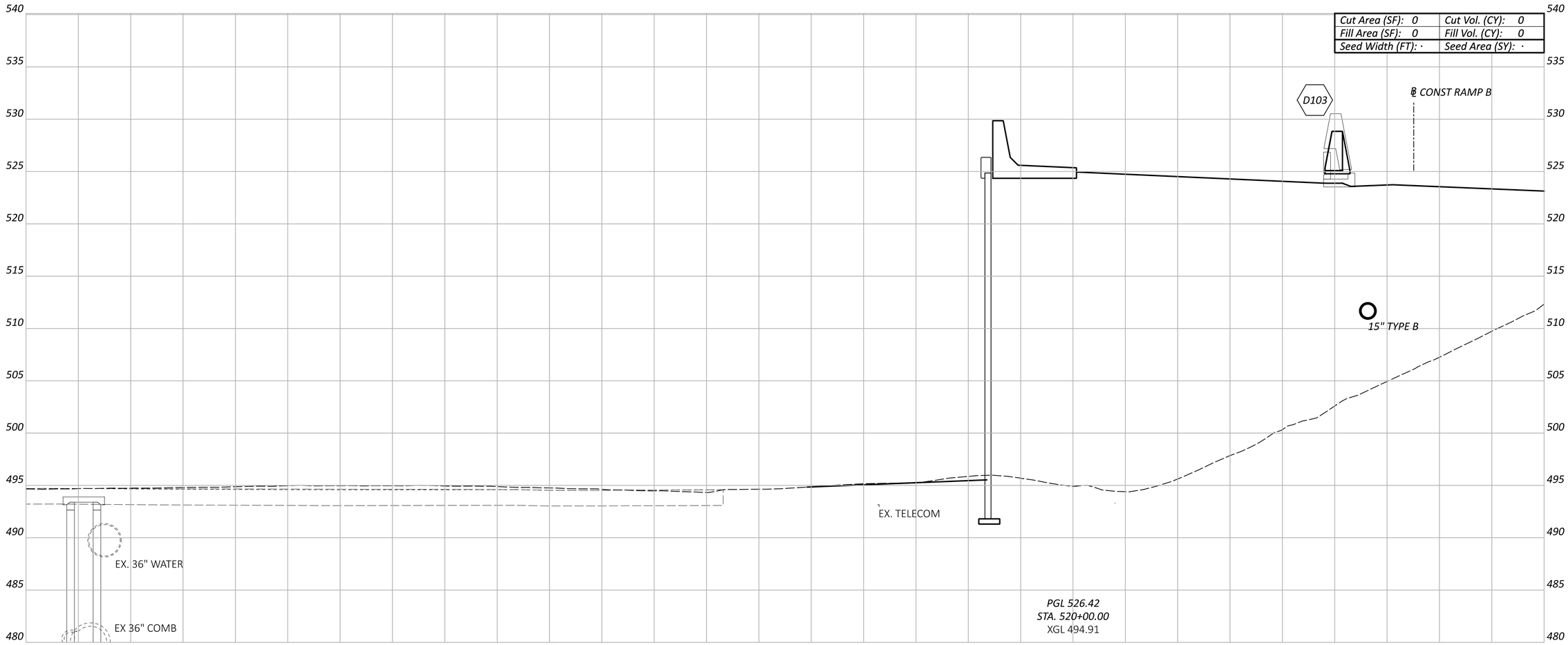
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.257 | TOTAL 463

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
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HAM-75-1.95

MODEL: BLP_RAMP G - 520+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:34:09 PM USER: sbeal
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CROSS SECTIONS - RAMP G
STA 520+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.258 | TOTAL 463

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

℄ CONST RAMP B

15" TYPE B

EX. 36" WATER

EX 36" STM

EX. TELECOM

PGL 525.90
STA. 520+50.00
XGL 494.46

535 530 525 520 515 510 505 500 495 490 485 480

100 75 50 25 0 25

CROSS SECTIONS - RAMP G
STA 520+50.00

HAM-75-1.95

MODEL: BLP_RAMP G - 520+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:34:20 PM USER: sbeal
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Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.259 | TOTAL 463

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

℄ CONST RAMP B

15" TYPE B

EX. 6" WATER

EX. TELECOM

EX 36" STM

PGL 525.37
STA. 521+00.00
XGL 494.56

535 530 525 520 515 510 505 500 495 490 485 480

100 75 50 25 0 25

Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - RAMP G
STA 521+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.260 TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP G - 521+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:34:31 PM USER: sbeal
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HAM-75-1.95

MODEL: BLP_RAMP G - 521+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:34:44 PM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_XS006.dgn

CROSS SECTIONS - RAMP G
STA 521+50.00

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

℄ CONST RAMP B

15" TYPE B

EX. 6" WATER

EX. 36" WATER

EX 30" COMB

PGL 524.84
STA. 521+50.00
XGL 494.95

535 530 525 520 515 510 505 500 495 490 485 480

100 75 50 25 0 25

Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMHT

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.261 | TOTAL 463

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

℄ CONST RAMP B

15" TYPE B

15" TYPE B

EX. 36" WATER

EX. 6" WATER

EX 30" COMB

PGL 524.35
STA. 522+00.00
XGL 495.47

540 535 530 525 520 515 510 505 500 495 490 485 480

100 75 50 25 0 25

Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - RAMP G
STA 522+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.262 | TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP G - 522+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:34:58 PM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_XS006.dgn

HAM-75-1.95

MODEL: BLP_RAMP G - 522+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:35:11 PM USER: sbeal
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CROSS SECTIONS - RAMP G
STA 522+50.00

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

℄ CONST RAMP B

15" TYPE B

15" TYPE B

EX. 6" WATER

EX. 36" WATER

EX 30" STM

PGL 523.93
STA. 522+50.00
XGL 496.08

540 535 530 525 520 515 510 505 500 495 490 485 480

100 75 50 25 0 25

Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMHT

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.263 TOTAL 463

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

℄ CONST RAMP B

15" TYPE B

15" TYPE B

EX. ELECTRIC

EX. 6" WATER

EX. 36" WATER

EX 30" COMB

PGL 523.58
STA. 523+00.00
XGL 497.35

540 535 530 525 520 515 510 505 500 495 490 485 480

100 75 50 25 0 25

Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - RAMP G
STA 523+00.00

DESIGN AGENCY
EM H&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.264 | TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP G - 523+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:35:23 PM USER: sbeal
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Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

℄ CONST RAMP B

15" TYPE B

15" TYPE B

EX. ELECTRIC

EX. 6" WATER

EX. 36" WATER

EX 30" COMB

PGL 523.29
STA. 523+50.00
XGL 498.03

540 535 530 525 520 515 510 505 500 495 490 485 480

100 75 50 25 0 25

Sheet Totals		
Seeding	Cut	Fill
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HAM-75-1.95

MODEL: BLP_RAMP G - 523+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:35:36 PM USER: sbeal
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CROSS SECTIONS - RAMP G
STA 523+50.00

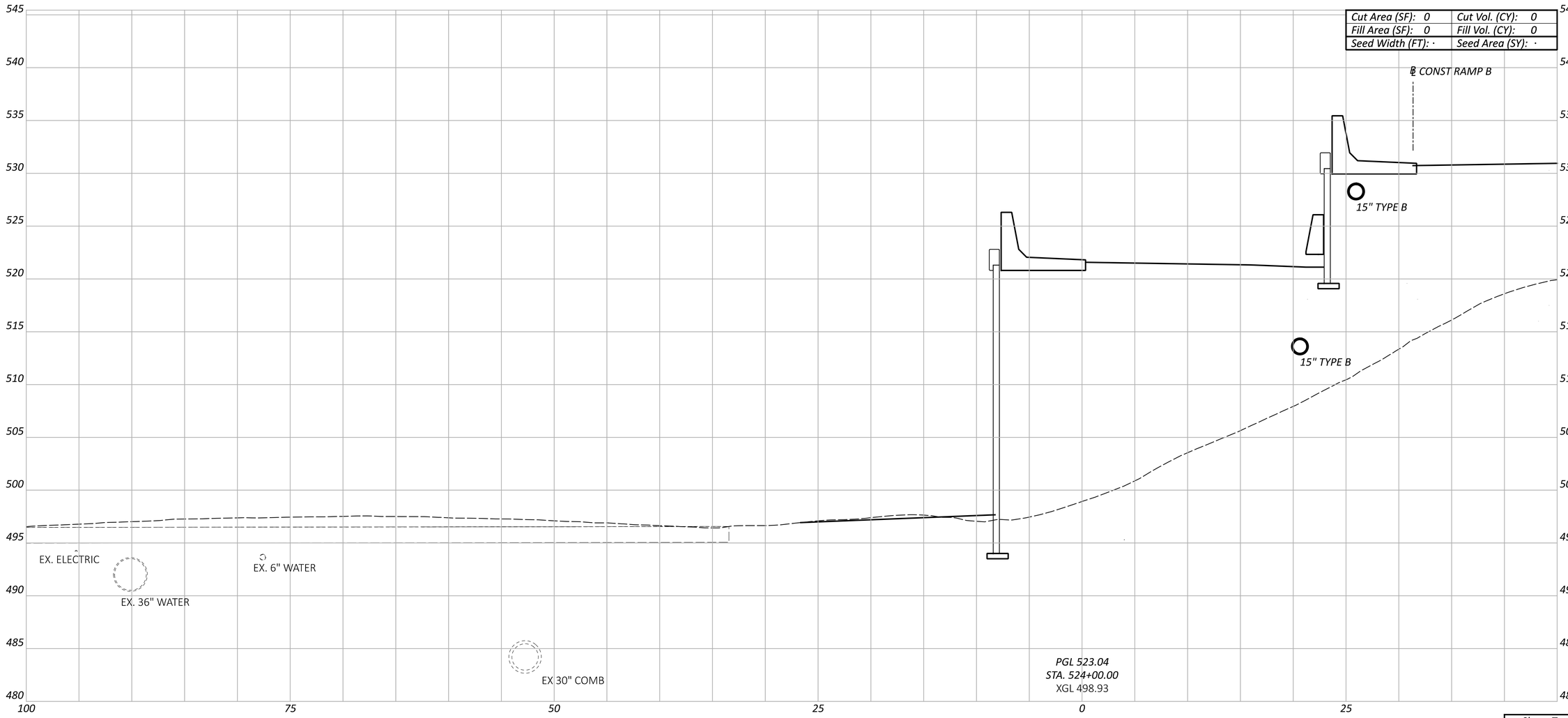
DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET	TOTAL
P.265	463



CROSS SECTIONS - RAMP G
STA 524+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.266 | TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP G - 524+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:35:49 PM USER: sbeal
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Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

℄ CONST RAMP B

15" TYPE B

15" TYPE B

EX. ELECTRIC

EX. ELECTRIC

EX. 36" WATER

EX. 6" WATER

EX. 6" GAS

EX 30" COMB

PGL 522.79
STA. 524+50.00
XGL 499.55

545 540 535 530 525 520 515 510 505 500 495 490 485 480

100 75 50 25 0 25

Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - RAMP G
STA 524+50.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.267 TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP G - 524+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:36:02 PM USER: sbeal
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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

545 540 535 530 525 520 515 510 505 500 495 490 485 480

℄ CONST RAMP B

D116

15" TYPE B

EX. ELECTRIC

EX. ELECTRIC

EX. 36" WATER

EX. 6" WATER

EX. 6" GAS

EX 36" STM

PGL 522.54
STA. 525+00.00
XGL 500.64

100 75 50 25 0 25

CROSS SECTIONS - RAMP G
STA 525+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

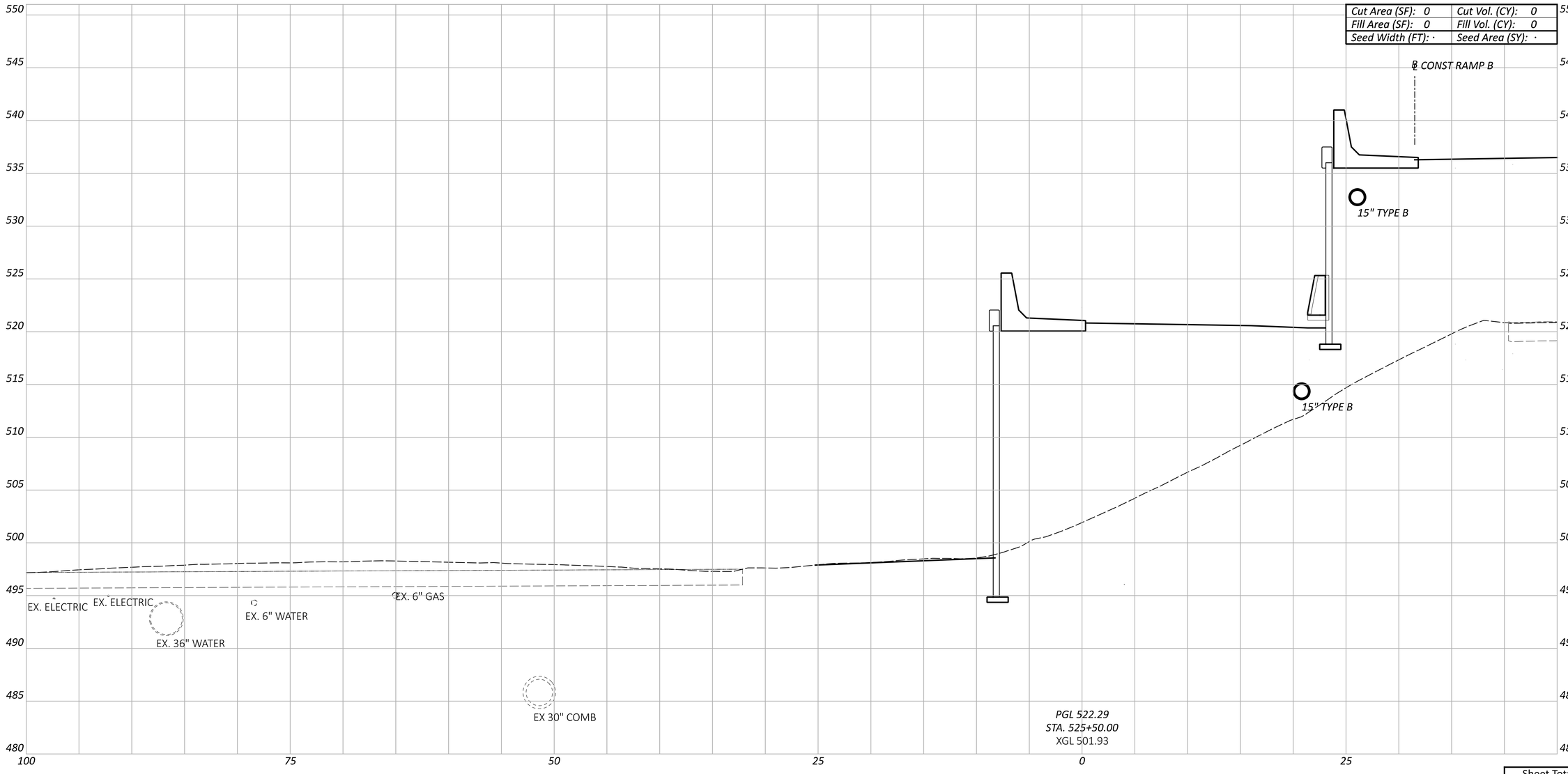
REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.268 | TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP G - 525+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:36:15 PM USER: sbeal
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CROSS SECTIONS - RAMP G
STA 525+50.00

Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

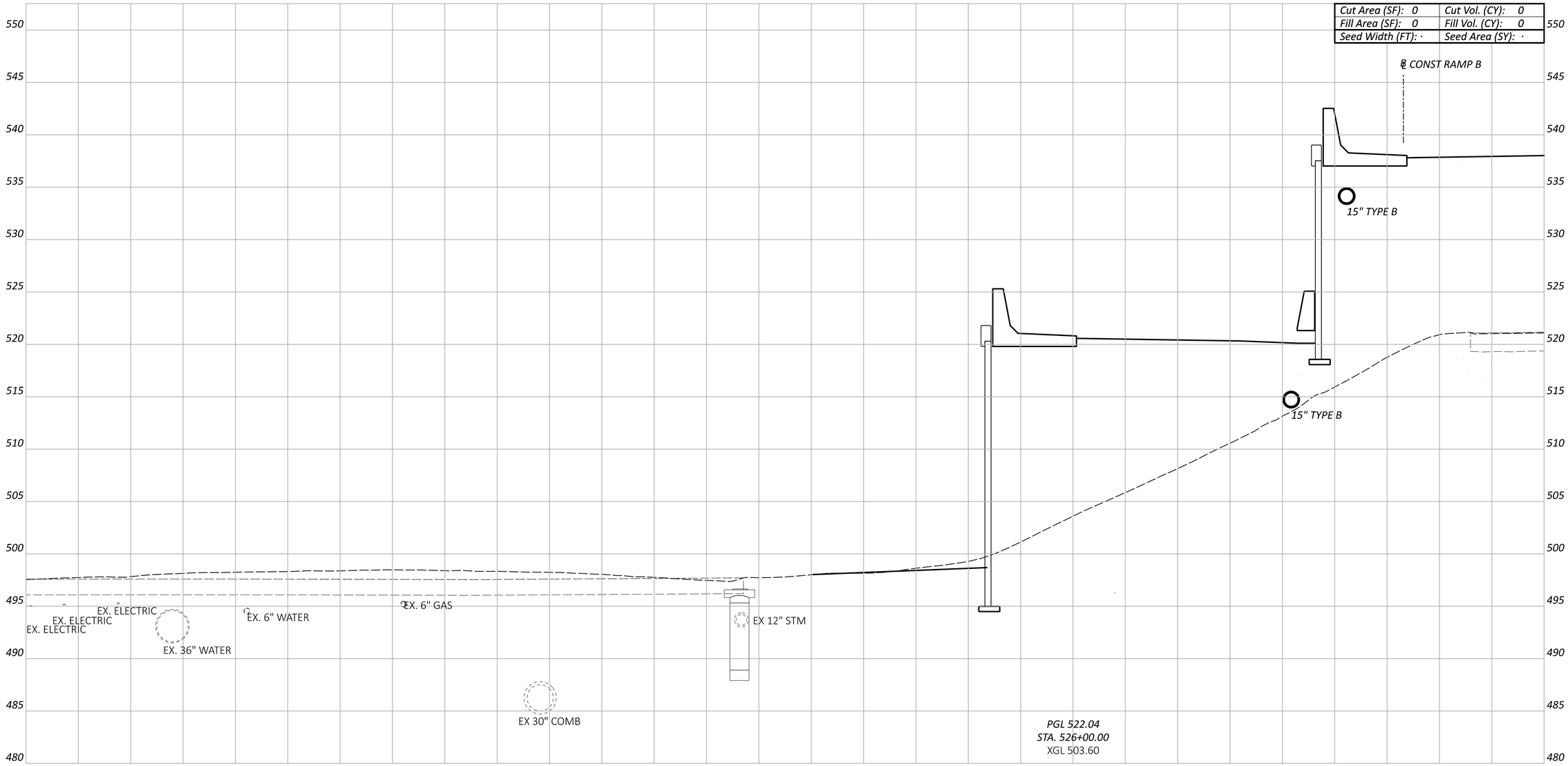
PROJECT ID
114161

SHEET P.269 | TOTAL 463

HAM-75-1.95

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Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - RAMP G
STA 526+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.270 | TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP G - 526+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:36:39 PM USER: sbeal
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Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

℄ CONST RAMP B

15" TYPE B

15" TYPE B

EX. ELECTRIC
EX. ELECTRIC
EX. ELECTRIC
EX. 36" WATER
EX. 6" WATER
EX. 6" GAS
EX 30" COMB

PGL 521.79
STA. 526+50.00
XGL 504.95

550 545 540 535 530 525 520 515 510 505 500 495 490 485 480

100 75 50 25 0 25

Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - RAMP G
STA 526+50.00

DESIGN AGENCY
EM H&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.271 TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP G - 526+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:36:51 PM USER: sbeal
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Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

℄ CONST RAMP B

D108

EX. ELECTRIC

EX. ELECTRIC

EX. ELECTRIC

EX. 6" WATER

EX. 36" WATER

EX. 6" GAS

EX 12" STM

EX 18" COMB

PGL 521.60
STA. 526+88.33 (SKEWED)
BEGIN APPROACH SLAB
XGL 502.71

550 545 540 535 530 525 520 515 510 505 500 495 490 485 480

100 75 50 25 0 25

Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - RAMP G
STA 526+88.33

DESIGN AGENCY
EM H&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.272 | TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP G - 526+88.33 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:37:05 PM USER: sbeal
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HAM-75-1.95

MODEL: BLP_RAMP G - 527+18.33 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:37:16 PM USER: sbeal
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Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

℄ CONST RAMP B

EX. ELECTRIC
EX. ELECTRIC
EX. 6" GAS
EX. 6" WATER
EX. 36" WATER
EX 12" STM
EX 18" COMB
EX. ELECTRIC

PGL 521.45
STA. 527+18.33 (SKEWED)
END APPROACH SLAB
XGL 498.84

550 545 540 535 530 525 520 515 510 505 500 495 490 485 480

100 75 50 25 0 25

CROSS SECTIONS - RAMP G
STA 527+18.33

Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMHT

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.273 | TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP G - 528+00.37 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:37:26 PM USER: sbeal
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Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

530
525
520
515
510
505
500
495
490
485
480

100 75 50 25 0 25

6:1
6:1
518.3

EX. 6" GAS
EX. FIBER OPTIC
EX. 6" WATER
EX. 6" GAS
EX. ELECTRIC
EX 12" STM
EX. TELECOM/FO
EX. FIBER OPTIC
EX. ELECTRIC
EX. TELECOM
EX. ELECTRIC
EX 15" COMB

PGL 521.04
STA. 528+00.37 (SKEWED)
BEGIN APPROACH SLAB
XGL 499.18

CROSS SECTIONS - RAMP G
STA 528+00.37

DESIGN AGENCY
EMHT

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

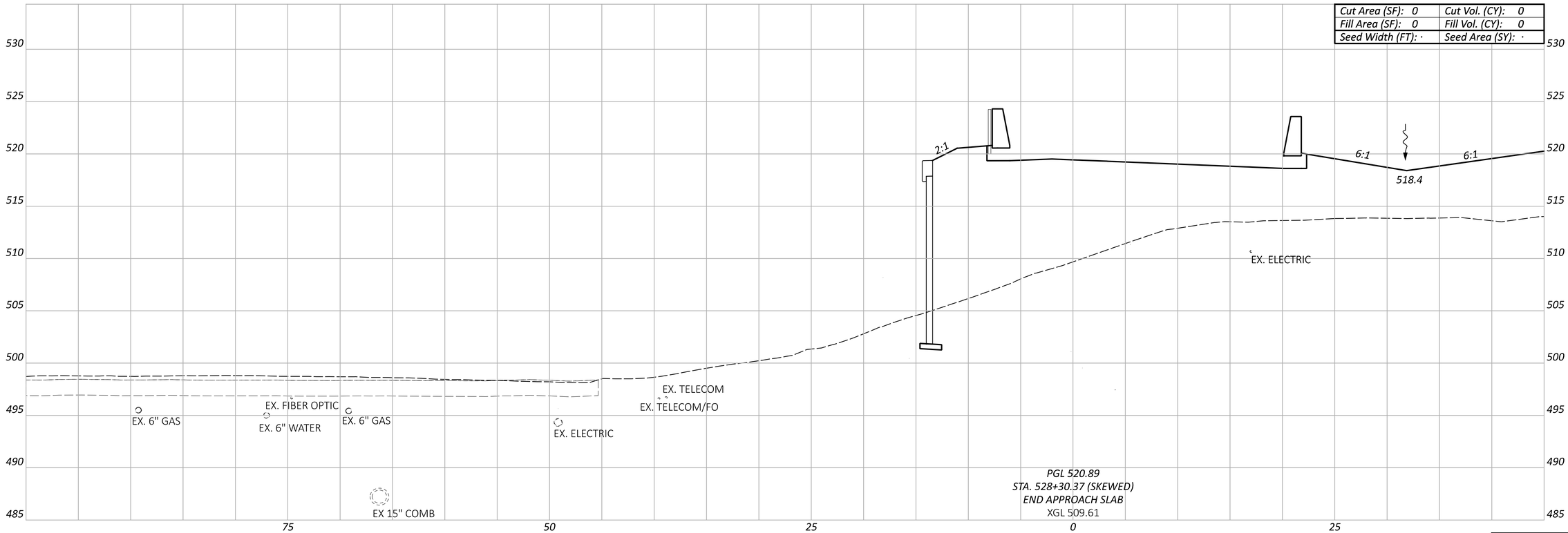
Sheet Totals		
Seeding	Cut	Fill
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SHEET	TOTAL
P.274	463

HAM-75-1.95

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Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - RAMP G
STA 528+30.37

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

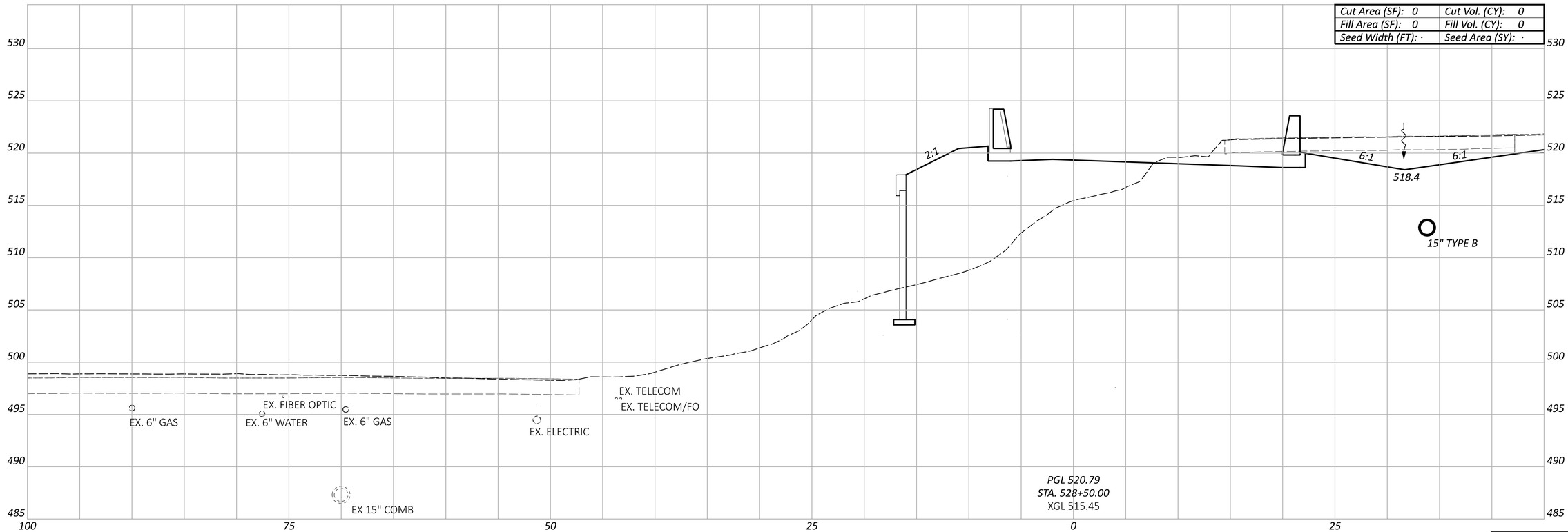
SHEET P.275 TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP G - 528+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:37:50 PM USER: sbeal
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CROSS SECTIONS - RAMP G
STA 528+50.00

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

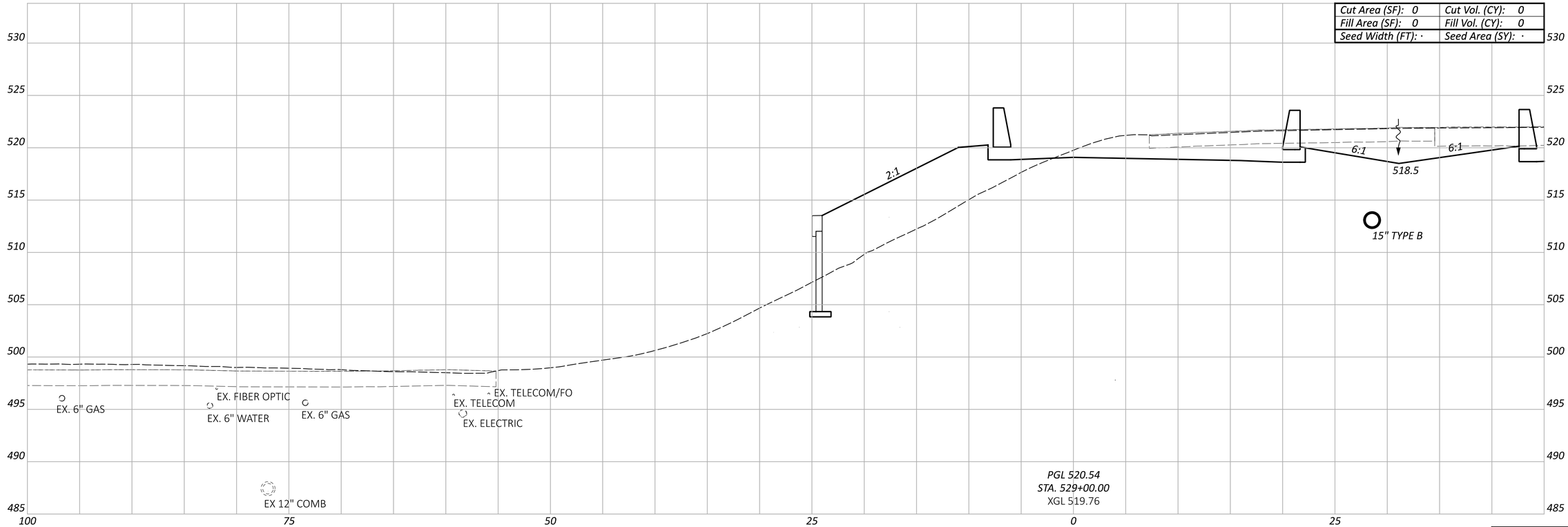
SHEET P.276 TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP G - 529+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:38:00 PM USER: sbeal
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CROSS SECTIONS - RAMP G
STA 529+00.00

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.277 TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP G - 529+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:38:12 PM USER: sbeal
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CROSS SECTIONS - RAMP G
STA 529+50.00

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

530 525 520 515 510 505 500 495 490 485

100 75 50 25 0 25

2:1

6:1 10:1

518.7

15" TYPE B

EX. FIBER OPTIC
EX. 6" WATER
EX. 6" GAS
EX. TELECOM
EX. ELECTRIC
EX. TELECOM/FO
EX 12" COMB

PGL 520.29
STA. 529+50.00
XGL 521.07

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

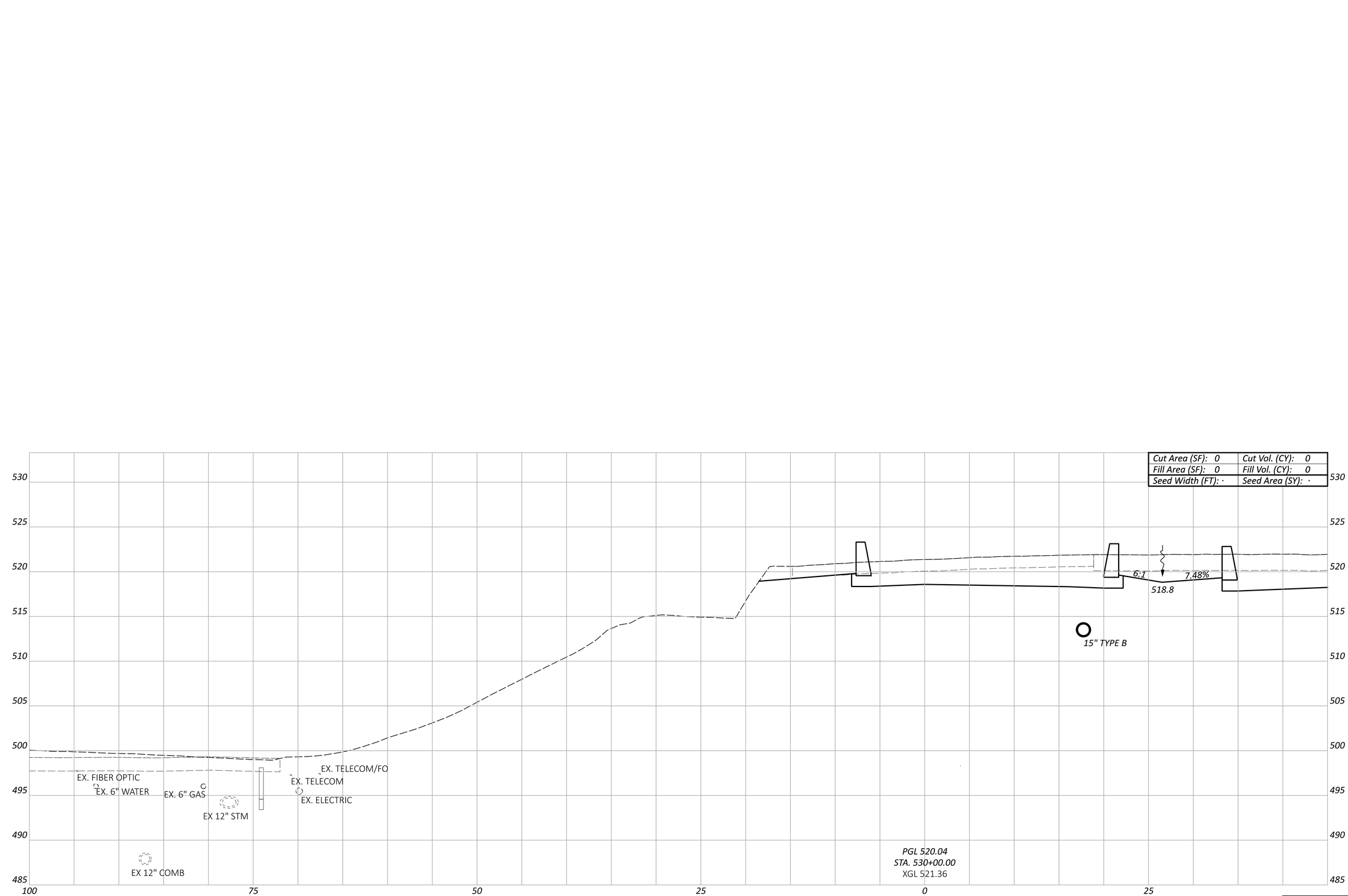
PROJECT ID
114161

SHEET P.278 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - RAMP G
STA 530+00.00

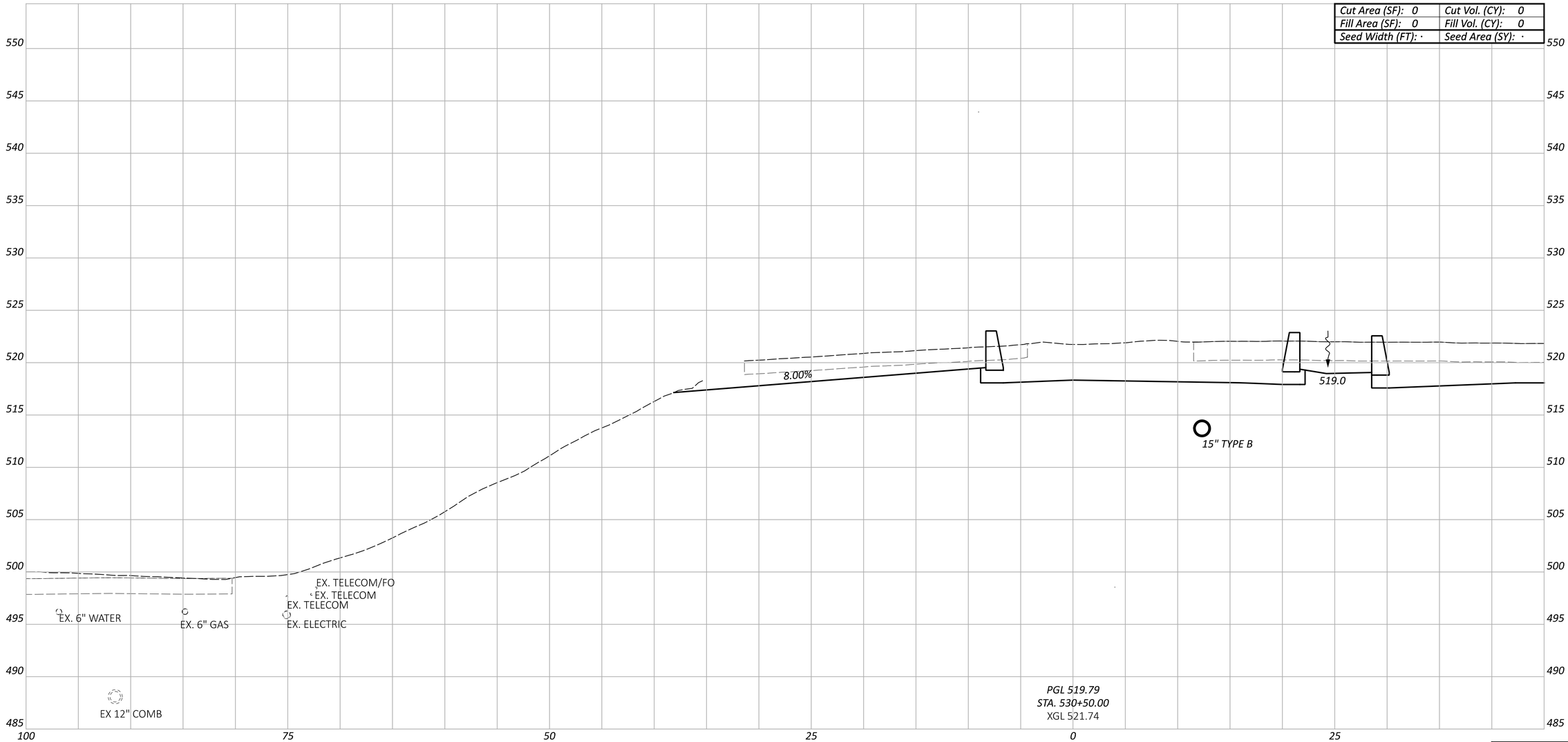


Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.279
TOTAL	463

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



CROSS SECTIONS - RAMP G
STA 530+50.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.280 | TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP G - 530+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:38:31 PM USER: sbeal
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Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

550 545 540 535 530 525 520 515 510 505 500 495 490 485

EX. 6" WATER
EX. 6" GAS
EX. TELECOM/FO
EX. TELECOM
EX. ELECTRIC
EX 12" COMB
15" TYPE B

PGL 544.41
STA. 530+83.97
XGL 520.86

100 75 50 25 0 25

CROSS SECTIONS - RAMP G
STA 530+83.97

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

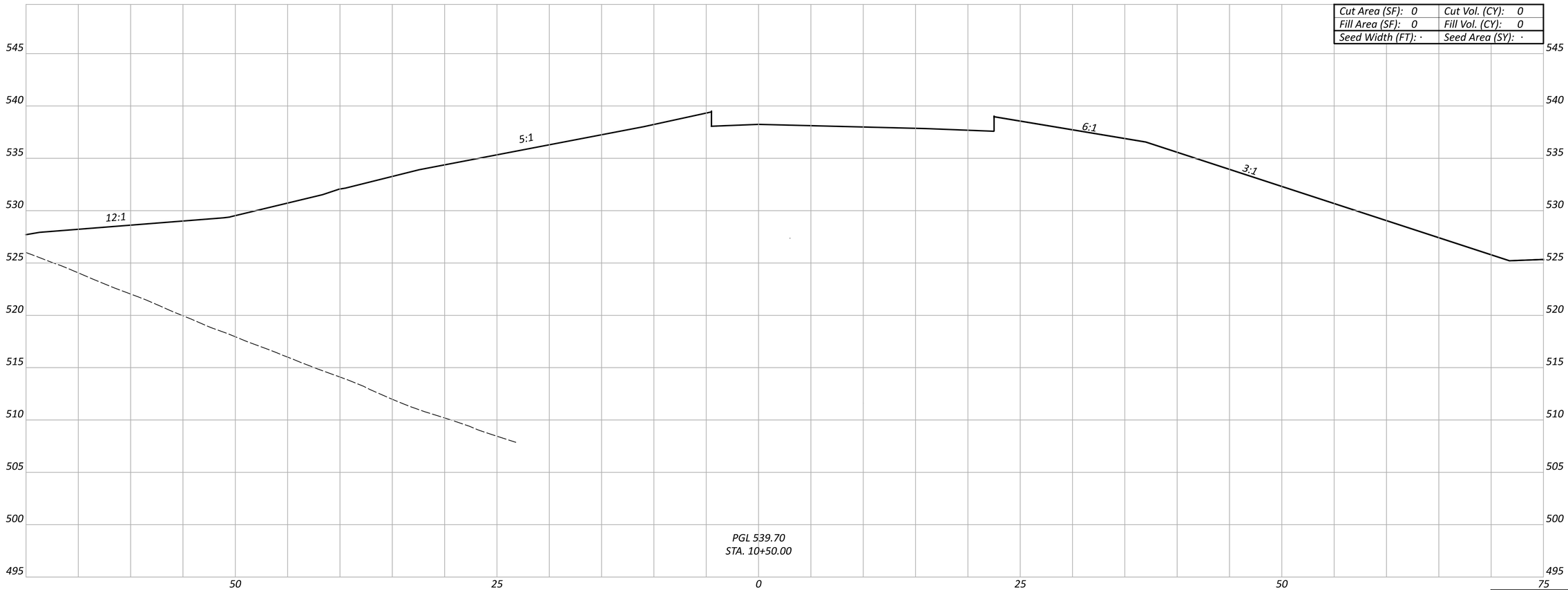
SHEET P.281 | TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP G - 530+83.97 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:38:40 PM USER: sbeal
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HAM-75-1.95

MODEL: BLP_LOCAL - 10+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:39:17 PM USER: sbeal
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Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

Sheet Totals		
Seeding	Cut	Fill
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CROSS SECTIONS - CONNECTOR
STA 10+50.00

DESIGN AGENCY
EMHT

DESIGNER
SJB

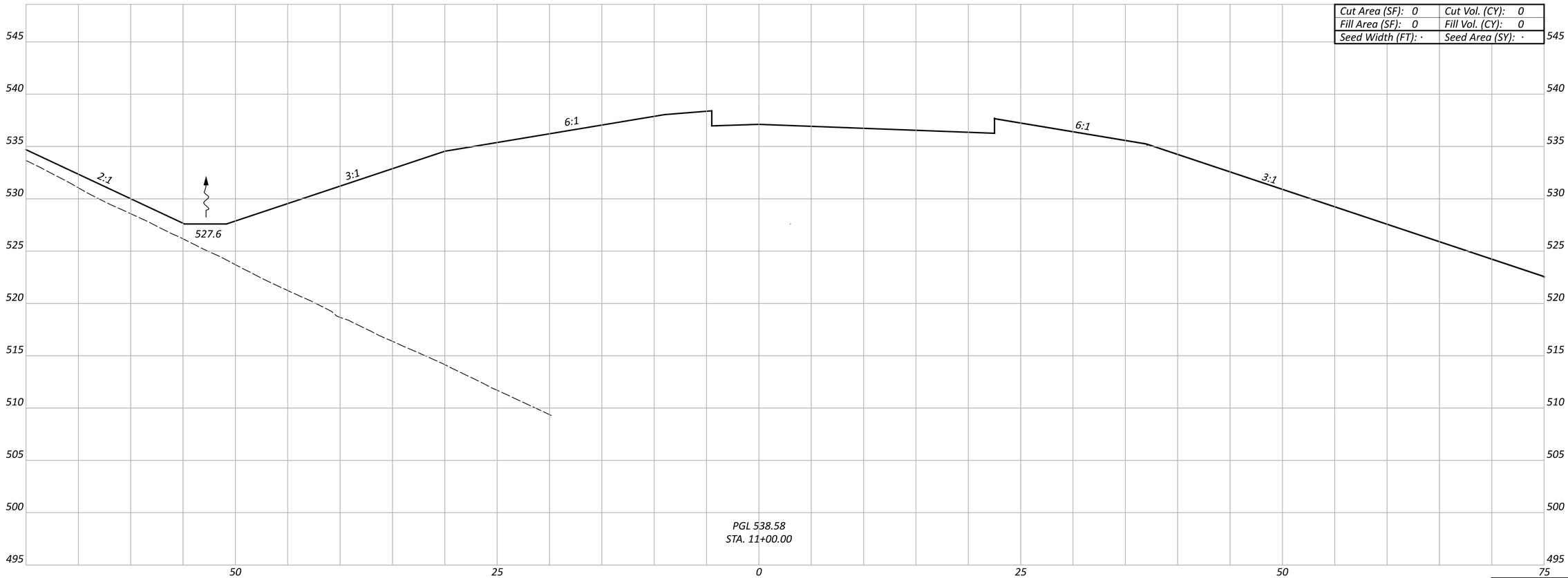
REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET	TOTAL
P.282	463

CROSS SECTIONS - CONNECTOR
STA 11+00.00

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

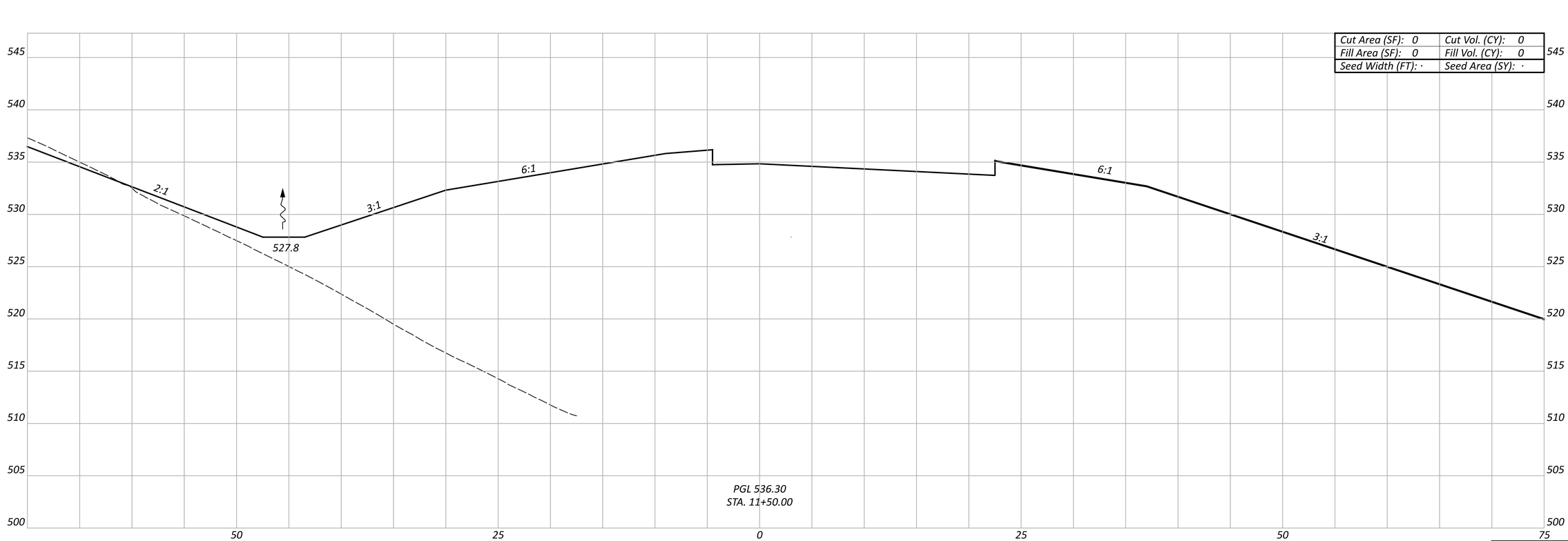
SHEET P.283 | TOTAL 463

HAM-75-1.95

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HAM-75-1.95

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CROSS SECTIONS - CONNECTOR
STA 11+50.00

Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMH&T

DESIGNER
SJB

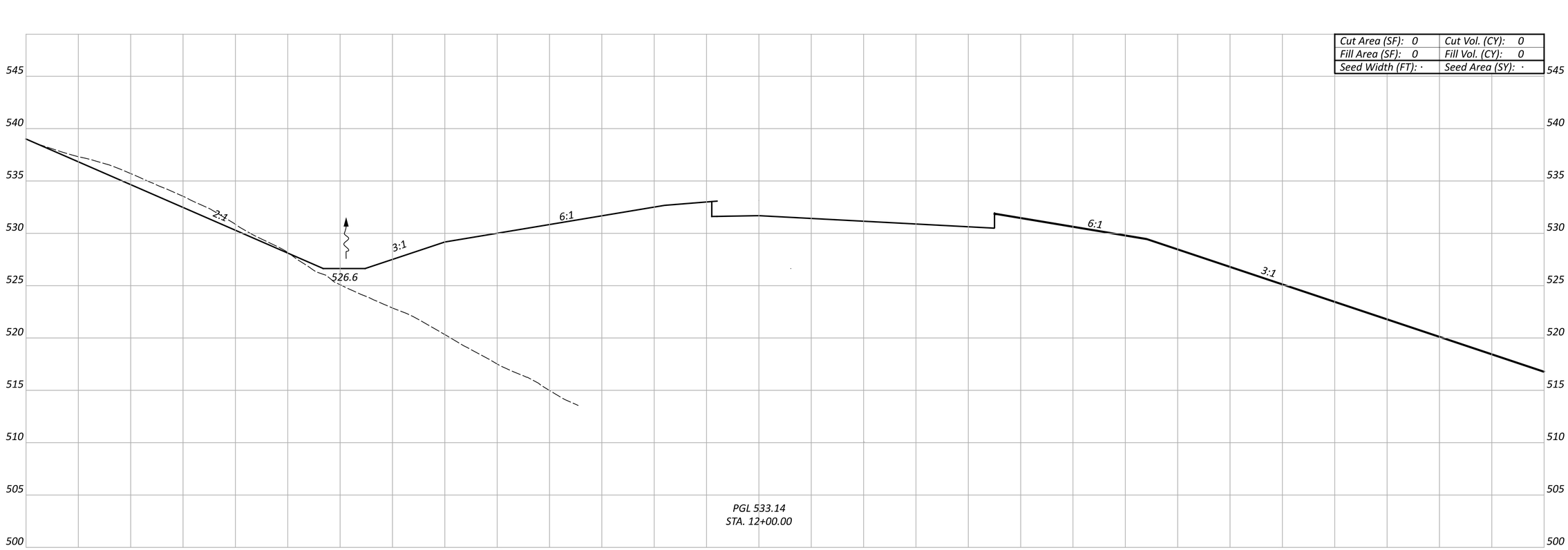
REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.284 TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - CONNECTOR
STA 12+00.00

Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

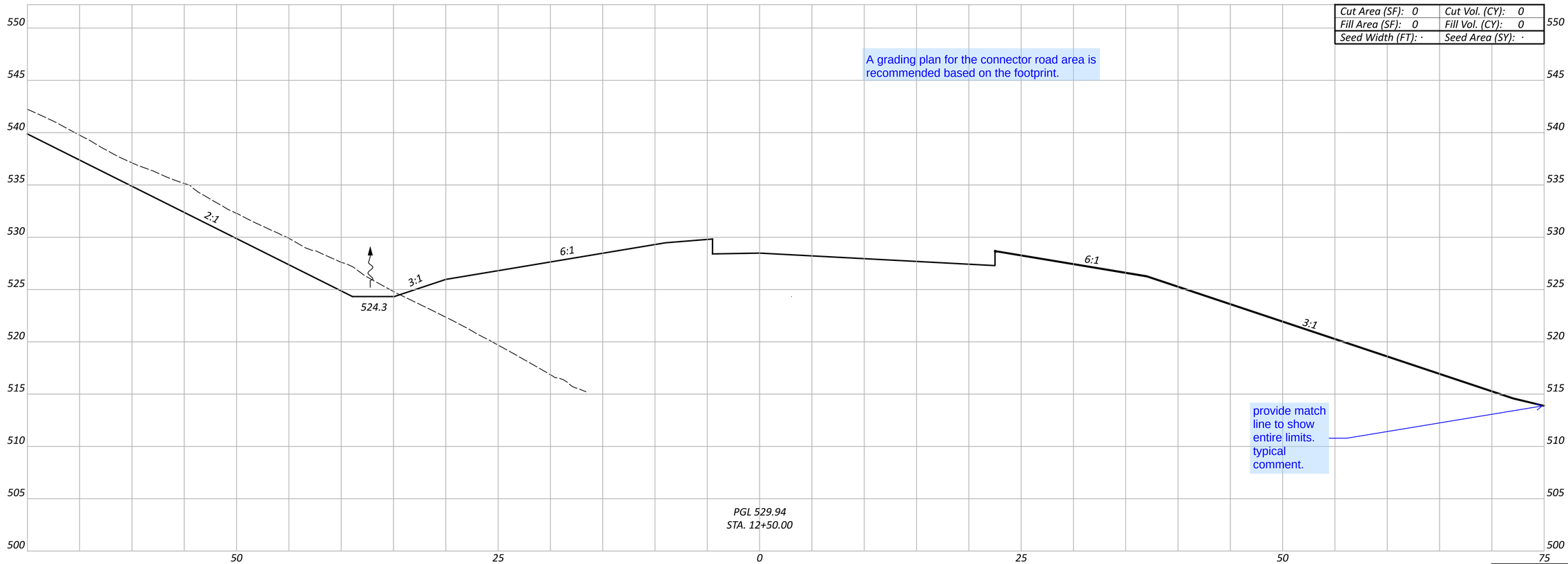
PROJECT ID
114161

SHEET P.285 TOTAL 463

CROSS SECTIONS - CONNECTOR
STA 12+50.00

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

A grading plan for the connector road area is recommended based on the footprint.



provide match line to show entire limits. typical comment.

Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY: EMH&T

DESIGNER: SJB

REVIEWER: MJR 06/21/24

PROJECT ID: 114161

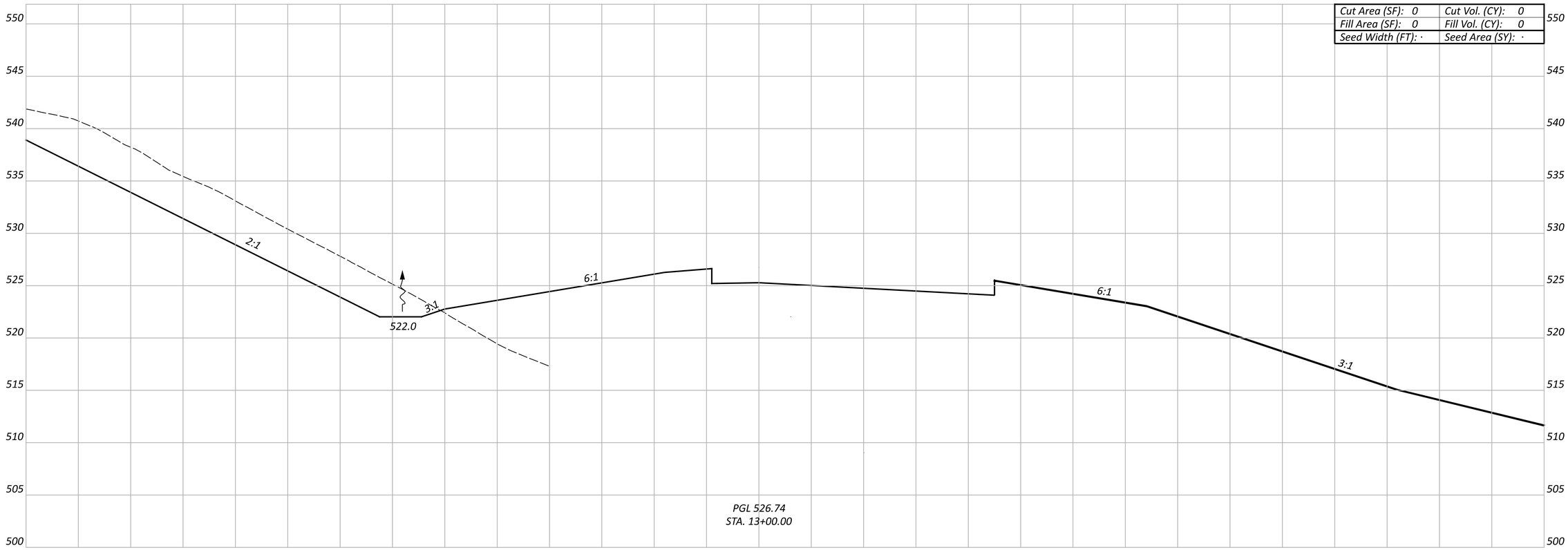
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HAM-75-1.95

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HAM-75-1.95

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Sheet Totals		
Seeding	Cut	Fill
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CROSS SECTIONS - CONNECTOR
STA 13+00.00

DESIGN AGENCY
EMHT

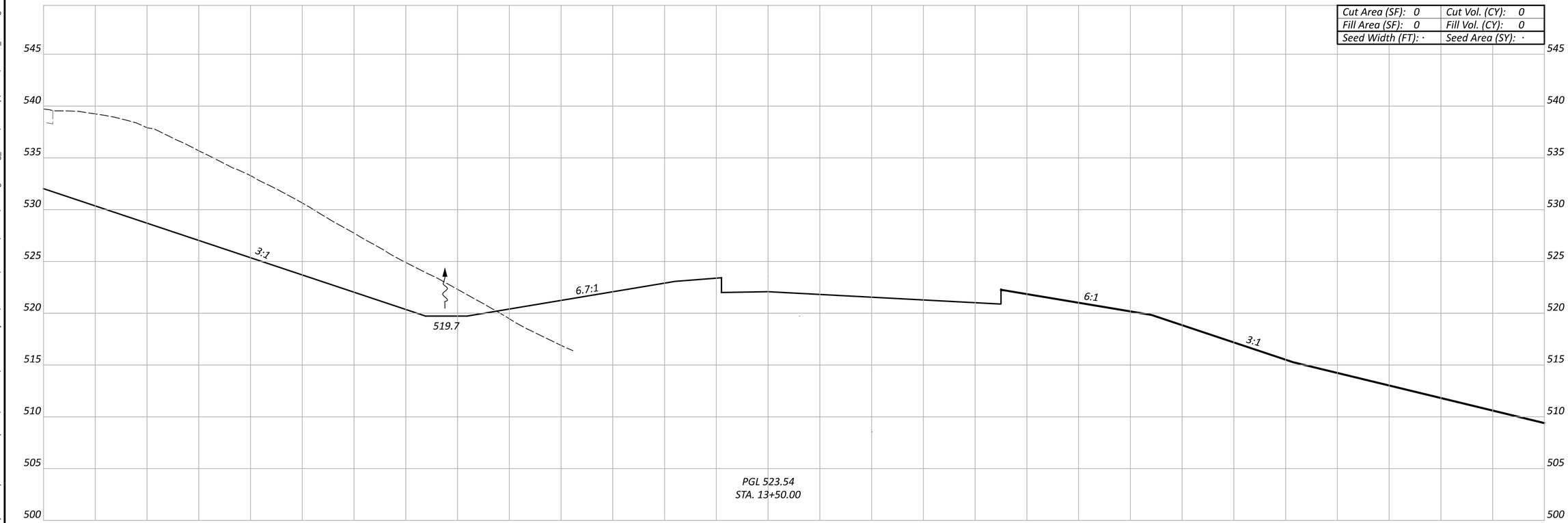
DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET	TOTAL
P.287	463

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - CONNECTOR
STA 13+50.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

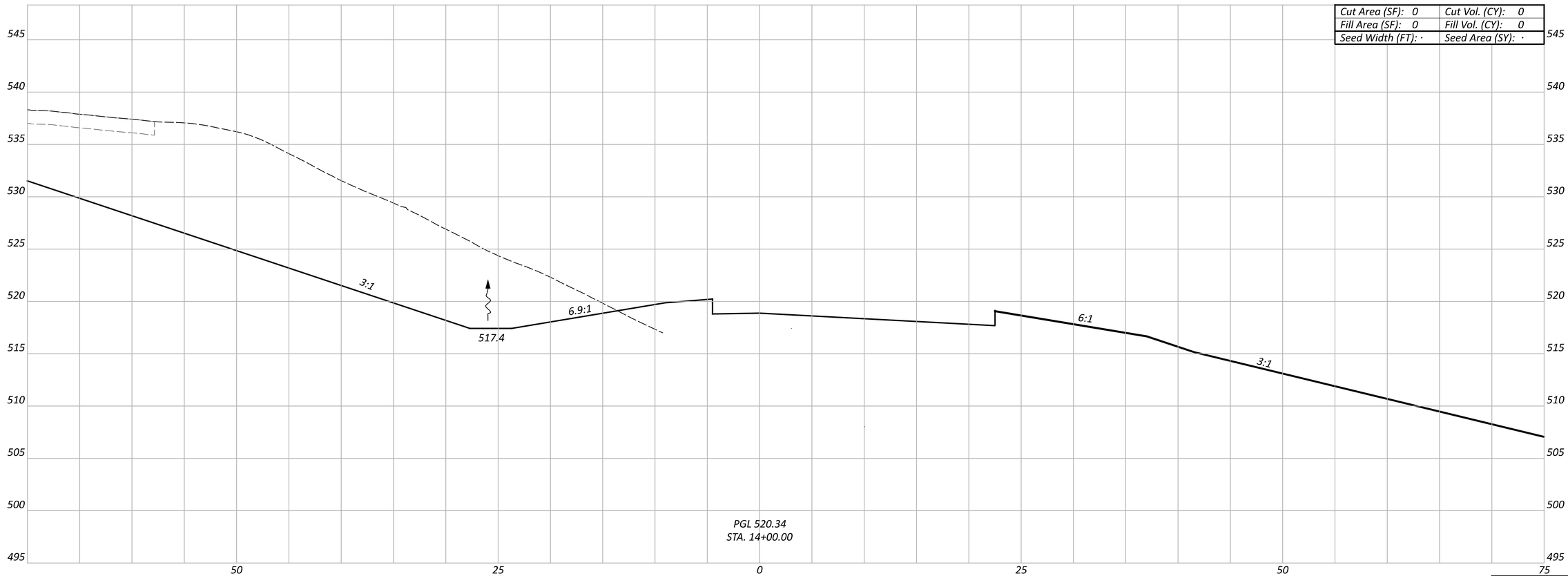
REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.288 TOTAL 463

HAM-75-1.95

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Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·

Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - CONNECTOR
STA 14+00.00

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

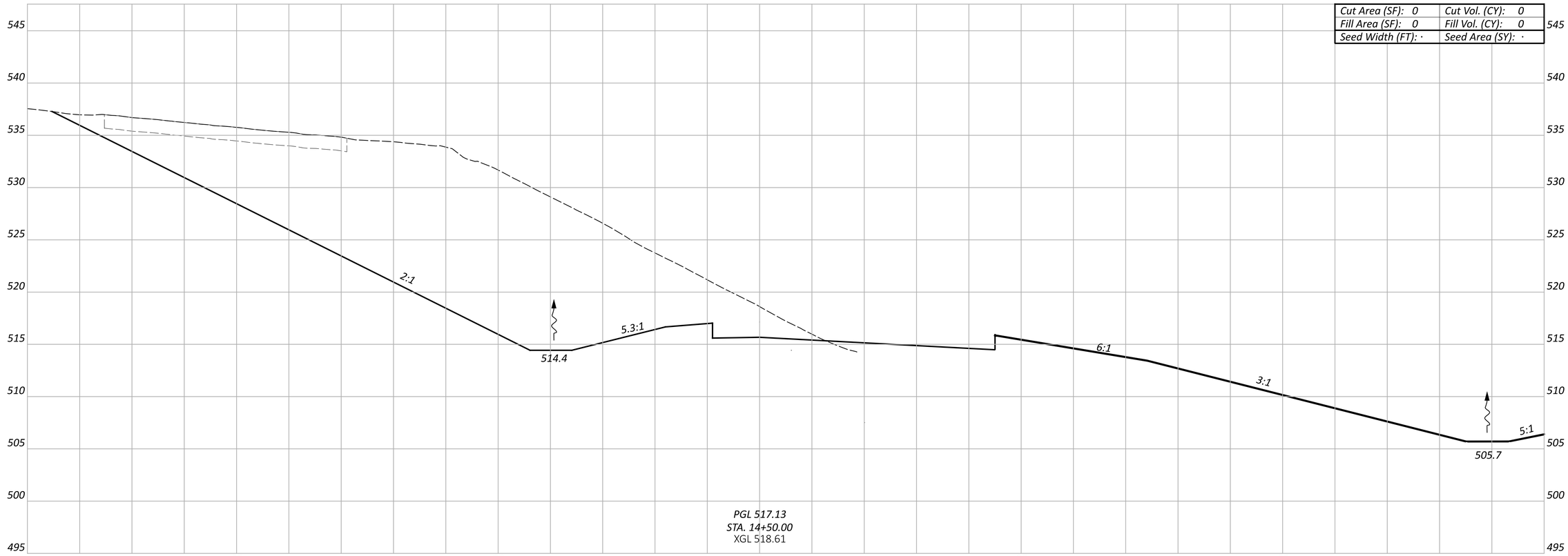
SHEET P.289 | TOTAL 463

HAM-75-1.95

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CROSS SECTIONS - CONNECTOR
STA 14+50.00

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.290 | TOTAL 463

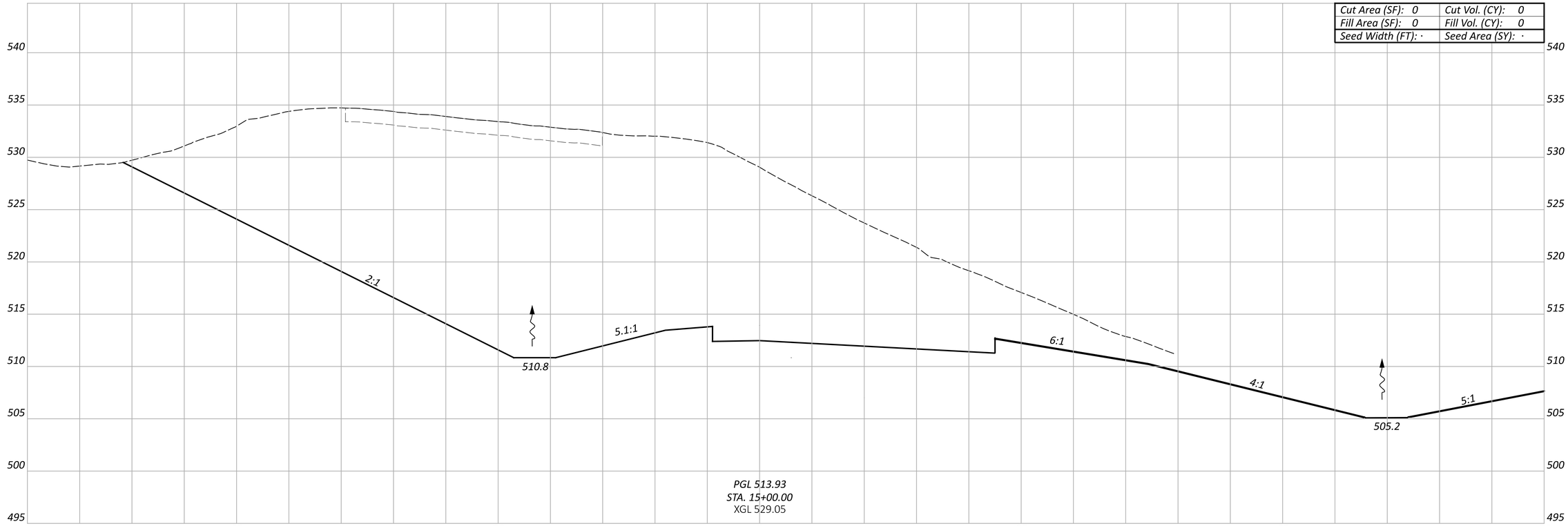
HAM-75-1.95

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HAM-75-1.95

MODEL: BLP_LOCAL - 15+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:41:43 PM USER: sbeal
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Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



CROSS SECTIONS - CONNECTOR
STA 15+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

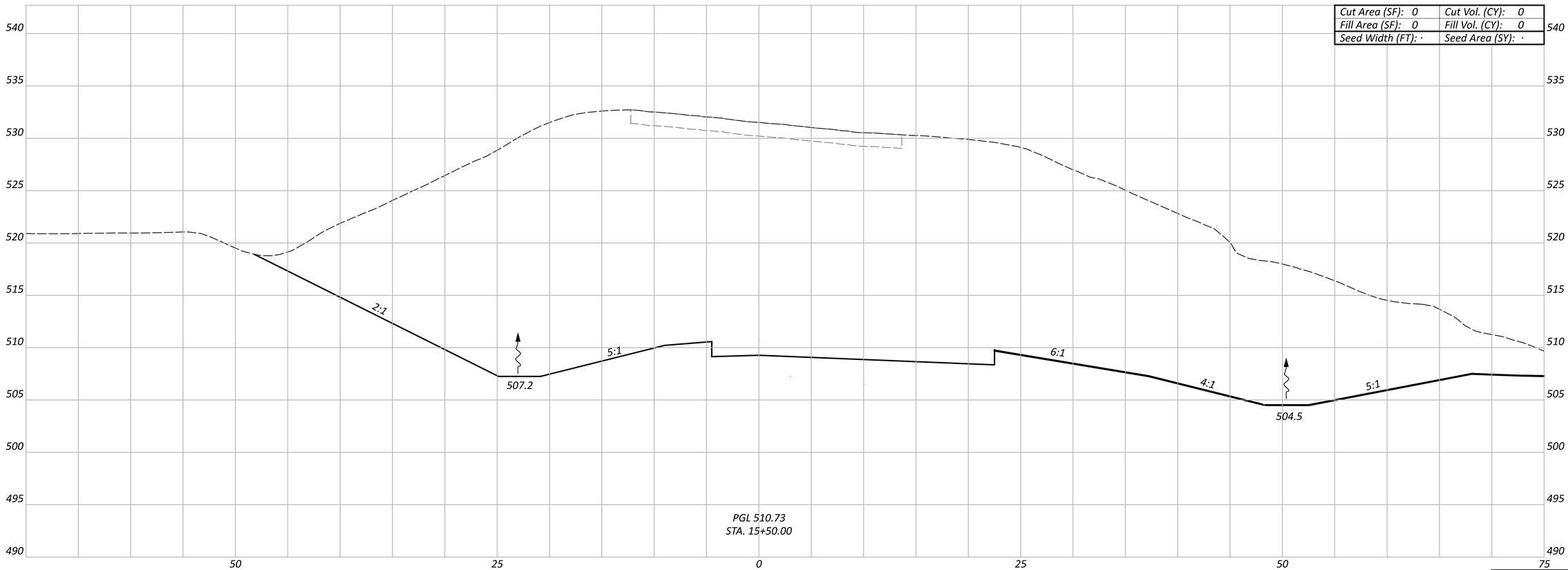
PROJECT ID
114161

SHEET P.291 TOTAL 463

HAM-75-1.95

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Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): ·	Seed Area (SY): ·



Sheet Totals		
Seeding	Cut	Fill
·	·	·

CROSS SECTIONS - CONNECTOR
STA 15+50.00

DESIGN AGENCY
EMHT

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.292 | TOTAL 463

HAM-75-1.95

MODEL: BLP_LOCAL - 16+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:42:13 PM USER: sbeal
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CROSS SECTIONS - CONNECTOR
STA 16+00.00

Sheet Totals		
Seeding	Cut	Fill
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DESIGN AGENCY
EMHT

DESIGNER
SJB

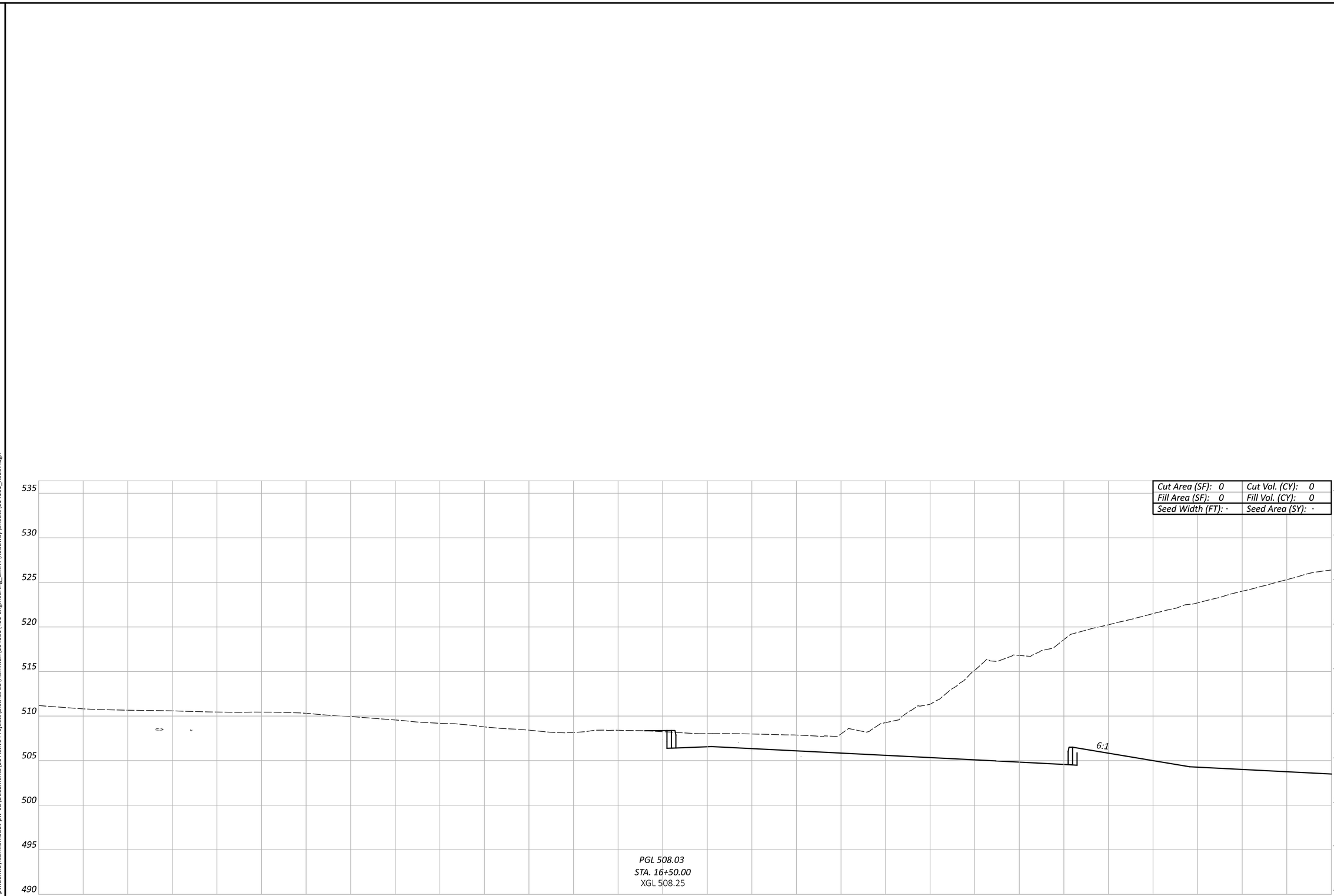
REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.293 | TOTAL 463

HAM-75-1.95

MODEL: BLP_LOCAL - 16+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 2:42:30 PM USER: sbeal
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CROSS SECTIONS - CONNECTOR
STA 16+50.00

Sheet Totals		
Seeding	Cut	Fill
·	·	·

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.294 TOTAL 463

SUPERELEVATION TABLE - IR-75 SOUTHBOUND - CURVE NO 1

PI STA 114+25.91 | Dc = 02° 45′ 00″

REMARKS	LEFT SIDE																		INSIDE EDGE (PROFILE GRADE)		STATION
	ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	TRANSITION RATE	WIDTH	ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	TRANSITION RATE	WIDTH	ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	TRANSITION RATE	WIDTH	ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	TRANSITION RATE	WIDTH	ELEVATION	OFFSET	
NC	516.14	-0.24	-0.0200		12.00	516.38	-0.38	-0.0160		24.00	516.76	0.38	0.0160		24.00	516.38	0.24	0.0200		12.00	516.14		102+74.14
	516.12	-0.24	-0.0197		12.00	516.36	-0.38	-0.0160		24.00	516.74	0.38	0.0160		24.00	516.36	0.24	0.0200		12.00	516.12		102+75.00
	515.95	-0.19	-0.0160		12.00	516.14	-0.38	-0.0160		24.00	516.52	0.38	0.0160		24.00	516.14	0.24	0.0200		12.00	515.90		102+84.36
	515.64	-0.17	-0.0140		12.00	515.81	-0.34	-0.0140		24.00	516.14	0.38	0.0160		24.00	515.76	0.24	0.0200		12.00	515.52		103+00.00
	515.16	-0.13	-0.0107		12.00	515.29	-0.26	-0.0107		24.00	515.54	0.38	0.0160		24.00	515.16	0.24	0.0200		12.00	514.92		103+25.00
	514.68	-0.09	-0.0074		12.00	514.77	-0.18	-0.0074		24.00	514.94	0.38	0.0160		24.00	514.56	0.24	0.0200		12.00	514.32		103+50.00
	514.19	-0.05	-0.0042		12.00	514.24	-0.10	-0.0042		24.00	514.34	0.38	0.0160		24.00	513.96	0.24	0.0200		12.00	513.72		103+75.00
	513.71	-0.01	-0.0009		12.00	513.72	-0.02	-0.0009		24.00	513.74	0.38	0.0160		24.00	513.36	0.24	0.0200		12.00	513.12		104+00.00
FLAT	513.57	0.00	0.0000		12.00	513.57	0.00	0.0000		24.00	513.57	0.38	0.0160		24.00	513.19	0.24	0.0200		12.00	512.95		104+07.05
	513.23	0.03	0.0023		12.00	513.20	0.06	0.0023		24.00	513.14	0.38	0.0160		24.00	512.76	0.24	0.0200		12.00	512.52		104+25.00
	512.75	0.07	0.0056		12.00	512.68	0.13	0.0056		24.00	512.54	0.38	0.0160		24.00	512.16	0.24	0.0200		12.00	511.92		104+50.00
	512.26	0.11	0.0089		12.00	512.16	0.21	0.0089		24.00	511.94	0.38	0.0160		24.00	511.56	0.24	0.0200		12.00	511.32		104+75.00
	511.78	0.15	0.0121		12.00	511.63	0.29	0.0121		24.00	511.34	0.38	0.0160		24.00	510.96	0.24	0.0200		12.00	510.72		105+00.00
	511.32	0.18	0.0154		12.00	511.14	0.37	0.0154		24.00	510.77	0.38	0.0160		24.00	510.39	0.24	0.0200		12.00	510.15		105+25.00
RC	510.70	0.19	0.0160		12.00	510.51	0.38	0.0160		24.00	510.12	0.38	0.0160		24.00	509.74	0.24	0.0200		12.00	509.50		105+29.74
	510.92	0.21	0.0176		12.00	510.71	0.42	0.0176		24.00	510.29	0.42	0.0176		24.00	509.86	0.24	0.0200		12.00	509.62		105+50.00
	510.56	0.23	0.0195		12.00	510.33	0.47	0.0195		24.00	509.86	0.47	0.0195		24.00	509.39	0.24	0.0200		12.00	509.15		105+75.00
RC	510.49	0.24	0.0200		12.00	510.25	0.48	0.0200		24.00	509.77	0.48	0.0200		24.00	509.29	0.24	0.0200		12.00	509.05		105+80.86
	510.26	0.25	0.0212	213:1	12.00	510.01	0.51	0.0212		24.00	509.50	0.51	0.0212		24.00	508.99	0.25	0.0212		12.00	508.73		106+00.00
	510.01	0.27	0.0229		12.00	509.74	0.55	0.0229	213:1	24.00	509.19	0.55	0.0229		24.00	508.64	0.27	0.0229		12.00	508.37		106+25.00
	509.81	0.29	0.0245		12.00	509.52	0.59	0.0245		24.00	508.93	0.59	0.0245		24.00	508.34	0.29	0.0245		12.00	508.05		106+50.00
	509.67	0.31	0.0261		12.00	509.35	0.63	0.0261		24.00	508.73	0.63	0.0261		24.00	508.10	0.31	0.0261		12.00	507.79		106+75.00
	509.57	0.33	0.0278		12.00	509.24	0.67	0.0278		24.00	508.57	0.67	0.0278		24.00	507.91	0.33	0.0278		12.00	507.57		107+00.00
	509.53	0.35	0.0294		12.00	509.18	0.71	0.0294		24.00	508.47	0.71	0.0294		24.00	507.76	0.35	0.0294		12.00	507.41		107+25.00
	509.54	0.37	0.0310		12.00	509.16	0.74	0.0310		24.00	508.42	0.74	0.0310		24.00	507.68	0.37	0.0310		12.00	507.30		107+50.00
PC	509.56	0.38	0.0320		12.00	509.18	0.77	0.0320		24.00	508.41	0.77	0.0320	213:1	24.00	507.64	0.38	0.0320		12.00	507.26		107+64.89
	509.60	0.39	0.0327		12.00	509.21	0.78	0.0327		24.00	508.42	0.78	0.0327		24.00	507.64	0.39	0.0327	213:1	12.00	507.25		107+75.00
	509.71	0.41	0.0343		12.00	509.30	0.82	0.0343		24.00	508.47	0.82	0.0343		24.00	507.65	0.41	0.0343		12.00	507.24		108+00.00
	509.87	0.43	0.0359		12.00	509.44	0.86	0.0359		24.00	508.58	0.86	0.0359		24.00	507.72	0.43	0.0359		12.00	507.29		108+25.00
	510.09	0.45	0.0375		12.00	509.64	0.90	0.0375		24.00	508.73	0.90	0.0375		24.00	507.83	0.45	0.0375		12.00	507.38		108+50.00
	510.35	0.47	0.0392		12.00	509.88	0.94	0.0392		24.00	508.94	0.94	0.0392		24.00	508.00	0.47	0.0392		12.00	507.53		108+75.00
	510.67	0.49	0.0408		12.00	510.18	0.98	0.0408		24.00	509.20	0.98	0.0408		24.00	508.22	0.49	0.0408		12.00	507.73		109+00.00
	511.04	0.51	0.0424		12.00	510.53	1.02	0.0424		24.00	509.51	1.02	0.0424		24.00	508.50	0.51	0.0424		12.00	507.99		109+25.00
	511.46	0.53	0.0441		12.00	510.93	1.06	0.0441		24.00	509.88	1.06	0.0441		24.00	508.82	0.53	0.0441		12.00	508.29		109+50.00
	511.94	0.55	0.0457		12.00	511.39	1.10	0.0457		24.00	510.29	1.10	0.0457		24.00	509.19	0.55	0.0457		12.00	508.65		109+75.00
	512.46	0.57	0.0473		12.00	511.89	1.14	0.0473		24.00	510.76	1.14	0.0473		24.00	509.62	0.57	0.0473		12.00	509.05		110+00.00
FS	512.70	0.58	0.0480		12.00	512.12	1.15	0.0480		24.00	510.97	1.15	0.0480		24.00	509.82	0.58	0.0480		12.00	509.24		110+10.27
	512.97	0.58	0.0480		12.00	512.39	1.15	0.0480		24.00	511.24	1.15	0.0480		24.00	510.09	0.58	0.0480		12.00	509.51		110+25.00
	513.48	0.58	0.0480		12.00	512.90	1.15	0.0480		24.00	511.75	1.15	0.0480		24.00	510.60	0.58	0.0480		12.00	510.02		110+50.00
	514.04	0.58	0.0480		12.00	513.47	1.15	0.0480		24.00	512.31	1.15	0.0480		24.00	511.16	0.58	0.0480		12.00	510.59		110+75.00
	514.66	0.58	0.0480		12.00	514.08	1.15	0.0480		24.00	512.93	1.15	0.0480		24.00	511.78	0.58	0.0480		12.00	511.20		111+00.00
	515.30	0.58	0.0480		12.00	514.72	1.15	0.0480		24.00	513.57	1.15	0.0480		24.00	512.42	0.58	0.0480		12.00	511.84		111+25.00
	515.94	0.58	0.0480		12.00	515.36	1.15	0.0480		24.00	514.21	1.15	0.0480		24.00	513.06	0.58	0.0480		12.00	512.48		111+50.00
	516.58	0.58	0.0480		12.00	516.00	1.15	0.0480		24.00	514.85	1.15	0.0480		24.00	513.70	0.58	0.0480		12.00	513.12		111+75.00
	517.22	0.58	0.0480		12.00	516.64	1.15	0.0480		24.00	515.49	1.15	0.0480		24.00	514.34	0.58	0.0480		12.00	513.76		112+00.00
	517.86	0.58	0.0480		12.00	517.28	1.15	0.0480		24.00	516.13	1.15	0.0480		24.00	514.98	0.58	0.0480		12.00	514.40		112+25.00
	518.50	0.58	0.0480		12.00	517.92	1.15	0.0480		24.00	516.77	1.15	0.0480		24.00	515.62	0.58	0.0480		12.00	515.04		112+50.00
	519.14	0.58	0.0480		12.00	518.56	1.15	0.0480		24.00	517.41	1.15	0.0480		24.00	516.26	0.58	0.0480		12.00	515.68		112+75.00
	519.78	0.58	0.0480		12.00	519.20	1.15	0.0480		24.00	518.05	1.15	0.0480		24.00	516.90	0.58	0.0480		12.00	516.32		113+00.00
	520.42	0.58	0.0480		12.00	519.84	1.15	0.0480		24.00	518.69	1.15	0.0480		24.00	517.54	0.58	0.0480		12.00	516.96		113+25.00
	521.20	0.62	0.0480		13.00	520.58	1.20	0.0480		25.00	519.38	1.20	0.0480		25.00	518.18	0.58	0.0480		12.00	517.60		113+50.00
	521.96	0.67	0.0480		14.00	521.29	1.25	0.0480		26.00	520.04	1.25	0.0480		26.00	518.79	0.58	0.0480		12.00	518.22		113+75.00
	522.67	0.72	0.0480		15.00	521.95	1.30	0.0480		27.00	520.65	1.30	0.0480		27.00	519.36	0.58	0.0480		12.00	518.78		114+00.00
	523.33	0.77	0.0480		16.00	522.56	1.34	0.0480		28.00	521.22	1.34	0.0480		28.00	519.87	0.58	0.0480		12.00	519.30		114+25.00
	523.94	0.82	0.0480		17.00	523.12	1.39	0.0480		29.00	521.73	1.39	0.0480		29.00	520.34	0.58	0.0480		12.00	519.76		114+50.00
	524.50	0.86	0.0480		18.00	523.63	1.44	0.0480		30.00	522.19	1.44	0.0480		30.00	520.75	0.58	0.0480		12.00	520.18		114+75.00
	525.00	0.91	0.0480		19.00	524.09	1.49	0.0480		31.00	522.60	1.49	0.0480		31.00	521.12	0.58	0.0480		12.00	520.54		115+00.00

SUPERELEVATION TABLE
IR 75 SOUTHBOUND - CURVE NO 1

DESIGN AGENCY: EMH&T
DESIGNER: SJB
REVIEWER: MJR 06/21/24
PROJECT ID: 114161
SHEET: P.295 | TOTAL: 463

HAM-75-1.95

MODEL: IR-75 SB CURVE 1A PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:18:25 AM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMH&T\Roadway\Sheets\114161_GE001.dgn

SUPERELEVATION TABLE - IR-75 SOUTHBOUND - CURVE NO 1

PI STA 114+25.91 | Dc = 02° 45′ 00″

REMARKS	LEFT SIDE																				INSIDE EDGE (PROFILE GRADE)		STATION
	ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	TRANSITION RATE	WIDTH	ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	TRANSITION RATE	WIDTH	ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	TRANSITION RATE	WIDTH	ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	TRANSITION RATE	WIDTH	ELEVATION	OFFSET	
	524.00	0.58	0.0480		12.00	523.42	1.15	0.0480		24.00	522.27	1.15	0.0480		24.00	521.12	0.58	0.0480		12.00	520.54		115+00.00
	524.31	0.58	0.0480		12.00	523.74	1.15	0.0480		24.00	522.58	1.15	0.0480		24.00	521.43	0.58	0.0480		12.00	520.86		115+25.00
	524.58	0.58	0.0480		12.00	524.00	1.15	0.0480		24.00	522.85	1.15	0.0480		24.00	521.70	0.58	0.0480		12.00	521.12		115+50.00
	524.79	0.58	0.0480		12.00	524.22	1.15	0.0480		24.00	523.06	1.15	0.0480		24.00	521.91	0.58	0.0480		12.00	521.34		115+75.00
	524.96	0.58	0.0480		12.00	524.38	1.15	0.0480		24.00	523.23	1.15	0.0480		24.00	522.08	0.58	0.0480		12.00	521.50		116+00.00
	525.07	0.58	0.0480		12.00	524.50	1.15	0.0480		24.00	523.34	1.15	0.0480		24.00	522.19	0.58	0.0480		12.00	521.62		116+25.00
	525.14	0.58	0.0480		12.00	524.56	1.15	0.0480		24.00	523.41	1.15	0.0480		24.00	522.26	0.58	0.0480		12.00	521.68		116+50.00
	525.15	0.58	0.0480		12.00	524.58	1.15	0.0480		24.00	523.42	1.15	0.0480		24.00	522.27	0.58	0.0480		12.00	521.70		116+75.00
	525.12	0.58	0.0480		12.00	524.54	1.15	0.0480		24.00	523.39	1.15	0.0480		24.00	522.24	0.58	0.0480		12.00	521.66		117+00.00
	525.03	0.58	0.0480		12.00	524.46	1.15	0.0480		24.00	523.30	1.15	0.0480		24.00	522.15	0.58	0.0480		12.00	521.58		117+25.00
	524.90	0.58	0.0480		12.00	524.32	1.15	0.0480		24.00	523.17	1.15	0.0480		24.00	522.02	0.58	0.0480		12.00	521.44		117+50.00
	524.74	0.58	0.0480		12.00	524.16	1.15	0.0480		24.00	523.01	1.15	0.0480		24.00	521.86	0.58	0.0480		12.00	521.28		117+75.00
	524.58	0.58	0.0480		12.00	524.00	1.15	0.0480		24.00	522.85	1.15	0.0480		24.00	521.70	0.58	0.0480		12.00	521.12		118+00.00
	524.42	0.58	0.0480		12.00	523.84	1.15	0.0480		24.00	522.69	1.15	0.0480		24.00	521.54	0.58	0.0480		12.00	520.96		118+25.00
FS	524.32	0.58	0.0480		12.00	523.74	1.15	0.0480		24.00	522.59	1.15	0.0480		24.00	521.44	0.58	0.0480		12.00	520.86		118+40.59
	524.20	0.57	0.0473		12.00	523.64	1.13	0.0473		24.00	522.50	1.13	0.0473		24.00	521.37	0.57	0.0473		12.00	520.80		118+50.00
	523.90	0.54	0.0453		12.00	523.36	1.09	0.0453		24.00	522.27	1.09	0.0453		24.00	521.18	0.54	0.0453		12.00	520.64		118+75.00
	523.60	0.52	0.0434		12.00	523.08	1.04	0.0434		24.00	522.04	1.04	0.0434		24.00	521.00	0.52	0.0434		12.00	520.48		119+00.00
	523.30	0.50	0.0414		12.00	522.80	0.99	0.0414		24.00	521.81	0.99	0.0414		24.00	520.82	0.50	0.0414		12.00	520.32		119+25.00
	523.00	0.47	0.0394		12.00	522.53	0.95	0.0394		24.00	521.58	0.95	0.0394		24.00	520.63	0.47	0.0394		12.00	520.16		119+50.00
	522.70	0.45	0.0375		12.00	522.25	0.90	0.0375		24.00	521.35	0.90	0.0375		24.00	520.45	0.45	0.0375		12.00	520.00		119+75.00
	522.40	0.43	0.0355		12.00	521.97	0.85	0.0355		24.00	521.12	0.85	0.0355		24.00	520.27	0.43	0.0355		12.00	519.84		120+00.00
	522.10	0.40	0.0336		12.00	521.70	0.81	0.0336		24.00	520.89	0.81	0.0336		24.00	520.08	0.40	0.0336	213:1	12.00	519.68		120+25.00
PT	521.88	0.38	0.0320		12.00	521.50	0.77	0.0320		24.00	520.73	0.77	0.0320	213:1	24.00	519.96	0.38	0.0320		12.00	519.58		120+45.07
	521.83	0.38	0.0316		12.00	521.45	0.76	0.0316		24.00	520.70	0.76	0.0316		24.00	519.94	0.38	0.0316		12.00	519.56		120+50.00
	521.61	0.36	0.0297		12.00	521.26	0.71	0.0297		24.00	520.54	0.71	0.0297		24.00	519.83	0.36	0.0297		12.00	519.48		120+75.00
	521.43	0.33	0.0277		12.00	521.10	0.66	0.0277		24.00	520.44	0.66	0.0277		24.00	519.77	0.33	0.0277		12.00	519.44		121+00.00
	521.30	0.31	0.0257		12.00	520.99	0.62	0.0257		24.00	520.37	0.62	0.0257		24.00	519.75	0.31	0.0257		12.00	519.45		121+25.00
	521.21	0.29	0.0238	213:1	12.00	520.92	0.57	0.0238	213:1	24.00	520.35	0.57	0.0238		24.00	519.78	0.29	0.0238		12.00	519.50		121+50.00
	521.16	0.26	0.0218		12.00	520.90	0.52	0.0218		24.00	520.38	0.52	0.0218		24.00	519.85	0.26	0.0218		12.00	519.59		121+75.00
RC	521.15	0.24	0.0200		12.00	520.91	0.48	0.0200		24.00	520.43	0.48	0.0200		24.00	519.95	0.24	0.0200		12.00	519.71		121+98.43
	521.15	0.24	0.0198		12.00	520.91	0.48	0.0198		24.00	520.44	0.48	0.0198		24.00	519.96	0.24	0.0200		12.00	519.72		122+00.00
	521.13	0.21	0.0174		12.00	520.93	0.42	0.0174		24.00	520.51	0.42	0.0174		24.00	520.09	0.24	0.0200		12.00	519.85		122+25.00
RC	521.13	0.19	0.0160		12.00	520.94	0.38	0.0160		24.00	520.55	0.38	0.0160		24.00	520.17	0.24	0.0200		12.00	519.93		122+39.33
	521.10	0.17	0.0139		12.00	520.94	0.33	0.0139		24.00	520.60	0.38	0.0160		24.00	520.22	0.24	0.0200		12.00	519.98		122+50.00
	521.06	0.11	0.0090		12.00	520.95	0.22	0.0090		24.00	520.73	0.38	0.0160		24.00	520.35	0.24	0.0200		12.00	520.11		122+75.00
	521.01	0.05	0.0041		12.00	520.96	0.10	0.0041		24.00	520.86	0.38	0.0160		24.00	520.48	0.24	0.0200		12.00	520.24		123+00.00
FLAT	520.97	0.00	0.0000		12.00	520.97	0.00	0.0000		24.00	520.97	0.38	0.0160		24.00	520.59	0.24	0.0200		12.00	520.35		123+21.12
	520.97	-0.01	-0.0008		12.00	520.98	-0.02	-0.0008		24.00	520.99	0.38	0.0160		24.00	520.61	0.24	0.0200		12.00	520.37		123+25.00
	520.92	-0.07	-0.0056		12.00	520.99	-0.14	-0.0056		24.00	521.12	0.38	0.0160		24.00	520.74	0.24	0.0200		12.00	520.50		123+50.00
	520.87	-0.13	-0.0105		12.00	521.00	-0.25	-0.0105		24.00	521.25	0.38	0.0160		24.00	520.87	0.24	0.0200		12.00	520.63		123+75.00
	520.83	-0.19	-0.0154		12.00	521.01	-0.37	-0.0154		24.00	521.38	0.38	0.0160		24.00	521.00	0.24	0.0200		12.00	520.76		124+00.00
NC	520.83	-0.19	-0.0160		12.00	521.02	-0.38	-0.0160		24.00	521.40	0.38	0.0160		24.00	521.02	0.24	0.0200		12.00	520.78		124+02.91

SUPERELEVATION TABLE
IR 75 SOUTHBOUND - CURVE NO 1

DESIGN AGENCY
EMH&T

DESIGNER SJB
REVIEWER MJR 06/21/24
PROJECT ID 114161
SHEET P.296 TOTAL 463

HAM-75-1.95

MODEL: IR-75 SB CURVE 1B PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:18:26 AM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GE001.dgn

SUPERELEVATION TABLE - IR-75 SOUTHBOUND - CURVE NO 2

PI STA 135+97.72 | Dc = 01° 30′ 00″

REMARKS	LEFT SIDE																		INSIDE EDGE (PROFILE GRADE)		STATION
	ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	TRANSITION RATE	WIDTH	ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	TRANSITION RATE	WIDTH	ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	TRANSITION RATE	WIDTH	ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	TRANSITION RATE	WIDTH	ELEVATION	OFFSET	
NC						519.95	-0.38	-0.0160	213:1	24.00	520.33	0.38	0.0160		24.00	519.95	0.24	0.0200		12.00	519.71		128+90.39
						519.90	-0.34	-0.0141		24.00	520.24	0.38	0.0160		24.00	519.86	0.24	0.0200		12.00	519.62		129+00.00
						519.78	-0.22	-0.0092		24.00	520.00	0.38	0.0160		24.00	519.61	0.24	0.0200		12.00	519.37		129+25.00
						519.65	-0.10	-0.0043		24.00	519.75	0.38	0.0160		24.00	519.37	0.24	0.0200		12.00	519.13		129+50.00
FLAT						519.53	0.00	0.0000		24.00	519.53	0.38	0.0160		24.00	519.15	0.24	0.0200		12.00	518.91		129+72.18
						519.52	0.01	0.0006		24.00	519.51	0.38	0.0160		24.00	519.13	0.24	0.0200		12.00	518.89		129+75.00
						519.40	0.13	0.0054		24.00	519.27	0.38	0.0160		24.00	518.88	0.24	0.0200		12.00	518.64		130+00.00
						519.27	0.25	0.0103		24.00	519.02	0.38	0.0160		24.00	518.64	0.24	0.0200		12.00	518.40		130+25.00
						519.14	0.37	0.0152		24.00	518.78	0.38	0.0160		24.00	518.39	0.24	0.0200		12.00	518.15		130+50.00
RC						519.12	0.38	0.0160		24.00	518.73	0.38	0.0160		24.00	518.35	0.24	0.0200		12.00	518.11		130+53.97
						519.01	0.43	0.0181		24.00	518.58	0.43	0.0181		24.00	518.15	0.24	0.0200		12.00	517.91		130+75.00
RC						518.91	0.48	0.0200		24.00	518.43	0.48	0.0200		24.00	517.95	0.24	0.0200		12.00	517.71		130+94.87
						518.89	0.49	0.0204		24.00	518.40	0.49	0.0204		24.00	517.91	0.24	0.0204		12.00	517.66		131+00.00
PC						518.83	0.51	0.0213		24.00	518.32	0.51	0.0213		24.00	517.81	0.26	0.0213		12.00	517.55		131+11.91
						518.79	0.54	0.0224		24.00	518.25	0.54	0.0224	213:1	24.00	517.71	0.27	0.0224		12.00	517.45		131+25.00
						518.73	0.58	0.0243		24.00	518.15	0.58	0.0243		24.00	517.57	0.29	0.0243	213:1	12.00	517.27		131+50.00
						518.73	0.63	0.0263		24.00	518.10	0.63	0.0263		24.00	517.47	0.32	0.0263		12.00	517.15		131+75.00
						518.78	0.68	0.0282		24.00	518.10	0.68	0.0282		24.00	517.42	0.34	0.0282		12.00	517.08		132+00.00
						518.87	0.72	0.0302		24.00	518.15	0.72	0.0302		24.00	517.42	0.36	0.0302		12.00	517.06		132+25.00
FS						519.00	0.77	0.0320		24.00	518.23	0.77	0.0320		24.00	517.46	0.38	0.0320		12.00	517.08		132+48.23
						519.01	0.77	0.0320		24.00	518.24	0.77	0.0320		24.00	517.47	0.38	0.0320		12.00	517.09		132+50.00
						519.08	0.77	0.0320		24.00	518.31	0.77	0.0320		24.00	517.55	0.38	0.0320		12.00	517.16		132+75.00
						519.21	0.77	0.0320		24.00	518.44	0.77	0.0320		24.00	517.67	0.38	0.0320		12.00	517.29		133+00.00
						519.36	0.77	0.0320		24.00	518.59	0.77	0.0320		24.00	517.82	0.38	0.0320		12.00	517.44		133+25.00
						519.51	0.77	0.0320		24.00	518.74	0.77	0.0320		24.00	517.97	0.38	0.0320		12.00	517.59		133+50.00
						517.11	0.38	0.0320		12.00	516.73	0.77	0.0320		24.00	515.96	0.77	0.0320		24.00	515.19		138+50.00
						516.84	0.38	0.0320		12.00	516.45	0.77	0.0320		24.00	515.68	0.77	0.0320		24.00	514.92		138+75.00
						516.61	0.38	0.0320		12.00	516.23	0.77	0.0320		24.00	515.46	0.77	0.0320		24.00	514.69		139+00.00
						516.44	0.38	0.0320		12.00	516.06	0.77	0.0320		24.00	515.29	0.77	0.0320		24.00	514.52		139+25.00
FS						516.35	0.38	0.0320		12.00	515.97	0.77	0.0320		24.00	515.20	0.77	0.0320		24.00	514.43		139+42.01
						516.28	0.38	0.0314		12.00	515.91	0.75	0.0314		24.00	515.15	0.75	0.0314		24.00	514.40		139+50.00
						516.10	0.35	0.0294		12.00	515.74	0.71	0.0294		24.00	515.04	0.71	0.0294		24.00	514.33		139+75.00
						515.96	0.33	0.0275		12.00	515.63	0.66	0.0275		24.00	514.97	0.66	0.0275		24.00	514.31		140+00.00
						515.87	0.31	0.0255		12.00	515.57	0.61	0.0255		24.00	514.96	0.61	0.0255		24.00	514.34		140+25.00
						515.84	0.28	0.0236		12.00	515.56	0.57	0.0236		24.00	514.99	0.57	0.0236		24.00	514.43		140+50.00
						515.85	0.26	0.0216		12.00	515.60	0.52	0.0216		24.00	515.08	0.52	0.0216	213:1	24.00	514.56		140+75.00
PT						515.86	0.26	0.0213		12.00	515.60	0.51	0.0213		24.00	515.09	0.51	0.0213		24.00	514.58		140+78.33
						515.91	0.24	0.0200		12.00	515.67	0.48	0.0200		24.00	515.19	0.48	0.0200		24.00	514.71		140+95.37
						515.92	0.24	0.0196		12.00	515.68	0.47	0.0196		24.00	515.21	0.47	0.0196		24.00	514.74		141+00.00
						516.04	0.21	0.0177		12.00	515.83	0.42	0.0177		24.00	515.40	0.42	0.0177		24.00	514.98		141+25.00
RC						516.18	0.19	0.0160		12.00	515.99	0.38	0.0160		24.00	515.60	0.38	0.0160		24.00	515.22		141+46.49
						516.21	0.19	0.0155	213:1	12.00	516.02	0.37	0.0155	213:1	24.00	515.65	0.38	0.0160		24.00	515.26		141+50.00
						516.42	0.15	0.0123		12.00	516.28	0.29	0.0123		24.00	515.98	0.38	0.0160		24.00	515.60		141+75.00
						516.69	0.11	0.0090		12.00	516.59	0.22	0.0090		24.00	516.37	0.38	0.0160		24.00	515.99		142+00.00
						517.01	0.07	0.0058		12.00	516.95	0.14	0.0058		24.00	516.81	0.38	0.0160		24.00	516.42		142+25.00
						517.39	0.03	0.0025		12.00	517.36	0.06	0.0025		24.00	517.30	0.38	0.0160		24.00	516.91		142+50.00
FLAT						517.70	0.00	0.0000		12.00	517.70	0.00	0.0000		24.00	517.70	0.38	0.0160		24.00	517.32		142+69.18
						517.81	-0.01	-0.0008		12.00	517.82	-0.02	-0.0008		24.00	517.83	0.38	0.0160		24.00	517.45		142+75.00
						518.28	-0.05	-0.0040		12.00	518.33	-0.10	-0.0040		24.00	518.42	0.38	0.0160		24.00	518.04		143+00.00
						518.78	-0.09	-0.0073		12.00	518.87	-0.17	-0.0073		24.00	519.04	0.38	0.0160		24.00	518.66		143+25.00
						519.28	-0.13	-0.0105		12.00	519.40	-0.25	-0.0105		24.00	519.66	0.38	0.0160		24.00	519.27		143+50.00
						519.78	-0.17	-0.0138		12.00	519.94	-0.33	-0.0138		24.00	520.27	0.38	0.0160		24.00	519.89		143+75.00
						520.11	-0.19	-0.0160		12.00	520.30	-0.38	-0.0160		24.00	520.68	0.38	0.0160		24.00	520.30		143+91.87
NC						520.31	-0.24	-0.0200		12.00	520.55	-0.38	-0.0160		24.00	520.93	0.38	0.0160		24.00	520.55		144+02.09

SUPERELEVATION TABLE
IR 75 SOUTHBOUND - CURVE NO 2

DESIGN AGENCY: EMH&T

DESIGNER: SJB

REVIEWER: MJR 06/21/24

PROJECT ID: 114161

SHEET: P.297 | TOTAL: 463

HAM-75-1.95

MODEL: IR-75 SB CURVE 2 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:18:27 AM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GE001.dgn

SUPERELEVATION TABLE - IR-75 SOUTHBOUND - CURVE NO 3

PI STA 163+68.90 | Dc = 02° 00′ 00″

REMARKS	LEFT SIDE																		INSIDE EDGE (PROFILE GRADE)		STATION
	ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	TRANSITION RATE	WIDTH	ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	TRANSITION RATE	WIDTH	ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	TRANSITION RATE	WIDTH	ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	TRANSITION RATE	WIDTH	ELEVATION	OFFSET	
NC						534.41	-0.48	-0.0200		24.00	534.89	-0.38	-0.0160		24.00	535.27	0.38	0.0160		24.00	534.89		150+75.76
						534.55	-0.48	-0.0200		24.00	535.03	-0.38	-0.0160		24.00	535.42	0.27	0.0115		24.00	535.14		151+00.00
						534.72	-0.48	-0.0200		24.00	535.20	-0.38	-0.0160		24.00	535.59	0.16	0.0068		24.00	535.42		151+25.00
						534.87	-0.48	-0.0200		24.00	535.35	-0.38	-0.0160		24.00	535.73	0.05	0.0021		24.00	535.68		151+50.00
FLAT						534.93	-0.48	-0.0200		24.00	535.41	-0.38	-0.0160		24.00	535.79	0.00	0.0000	222:1	24.00	535.79		151+61.01
						535.00	-0.48	-0.0200		24.00	535.48	-0.38	-0.0160		24.00	535.86	-0.06	-0.0026		24.00	535.93		151+75.00
						535.11	-0.48	-0.0200		24.00	535.59	-0.38	-0.0160		24.00	535.97	-0.18	-0.0073		24.00	536.15		152+00.00
						535.19	-0.48	-0.0200		24.00	535.67	-0.38	-0.0160		24.00	536.06	-0.29	-0.0120		24.00	536.35		152+25.00
RC						535.25	-0.48	-0.0200		24.00	535.73	-0.38	-0.0160	222:1	24.00	536.12	-0.38	-0.0160		24.00	536.50		152+46.26
						535.26	-0.48	-0.0200		24.00	535.74	-0.39	-0.0164		24.00	536.14	-0.39	-0.0164		24.00	536.53		152+50.00

SUPERELEVATION TABLE
IR 75 SOUTHBOUND - CURVE NO 3

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.298 | TOTAL 463

HAM-75-1.95

MODEL: IR-75 SB CURVE 3 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:18:27 AM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GE001.dgn

SUPERELEVATION TABLE - IR-75 NORTHBOUND - CURVE NO 1

PI STA 114+25.91 | Dc = 02° 45' 00"

STATION	INSIDE EDGE (PROFILE GRADE)		RIGHT SIDE																		REMARKS
	OFFSET	ELEVATION	WIDTH	TRANSITION RATE	CROSS SLOPE	ELEVATION CORRECTION	ELEVATION	WIDTH	TRANSITION RATE	CROSS SLOPE	ELEVATION CORRECTION	ELEVATION	WIDTH	TRANSITION RATE	CROSS SLOPE	ELEVATION CORRECTION	ELEVATION	WIDTH	TRANSITION RATE	CROSS SLOPE	ELEVATION CORRECTION	ELEVATION	
102+74.14		516.14	12.00		0.0200	0.24	516.38	24.00		0.0160	0.38	516.76	24.00		-0.0160	-0.38	516.38	12.00		-0.0200	-0.24	516.14	NC
102+84.36		515.90	12.00		0.0160	0.19	516.09	24.00		0.0160	0.38	516.48	24.00		-0.0160	-0.38	516.09	12.00		-0.0200	-0.24	515.85	
103+00.00		515.52	12.00		0.0140	0.17	515.69	24.00		0.0140	0.34	516.02	24.00		-0.0160	-0.38	515.64	12.00		-0.0200	-0.24	515.40	
103+25.00		514.92	12.00		0.0107	0.13	515.05	24.00		0.0107	0.26	515.31	24.00		-0.0160	-0.38	514.92	12.00		-0.0200	-0.24	514.68	
103+50.00		514.32	12.00		0.0074	0.09	514.41	24.00		0.0074	0.18	514.59	24.00		-0.0160	-0.38	514.20	12.00		-0.0200	-0.24	513.96	
103+75.00		513.72	12.00		0.0042	0.05	513.77	24.00		0.0042	0.10	513.87	24.00		-0.0160	-0.38	513.49	12.00		-0.0200	-0.24	513.25	
104+00.00		513.12	12.00		0.0009	0.01	513.13	24.00		0.0009	0.02	513.15	24.00		-0.0160	-0.38	512.77	12.00		-0.0200	-0.24	512.53	
104+07.05		512.95	12.00		0.0000	0.00	512.95	24.00		0.0000	0.00	512.95	24.00		-0.0160	-0.38	512.57	12.00		-0.0200	-0.24	512.33	FLAT
104+25.00		512.52	12.00		-0.0023	-0.03	512.49	24.00		-0.0023	-0.06	512.44	24.00		-0.0160	-0.38	512.05	12.00		-0.0200	-0.24	511.81	
104+50.00		511.92	12.00		-0.0056	-0.07	511.85	24.00		-0.0056	-0.13	511.72	24.00		-0.0160	-0.38	511.33	12.00		-0.0200	-0.24	511.09	
104+75.00		511.32	12.00		-0.0089	-0.11	511.21	24.00		-0.0089	-0.21	511.00	24.00		-0.0160	-0.38	510.62	12.00		-0.0200	-0.24	510.38	
105+00.00		510.72	12.00		-0.0121	-0.15	510.57	24.00		-0.0121	-0.29	510.28	24.00		-0.0160	-0.38	509.90	12.00		-0.0200	-0.24	509.66	
105+25.00		510.15	12.00		-0.0154	-0.18	509.96	24.00		-0.0154	-0.37	509.59	24.00		-0.0160	-0.38	509.21	12.00		-0.0200	-0.24	508.97	
105+29.74		510.04	12.00		-0.0160	-0.19	509.85	24.00		-0.0160	-0.38	509.46	24.00		-0.0160	-0.38	509.08	12.00		-0.0200	-0.24	508.84	RC
105+50.00		509.62	12.00		-0.0176	-0.21	509.41	24.00		-0.0176	-0.42	508.99	24.00		-0.0176	-0.42	508.57	12.00		-0.0200	-0.24	508.33	
105+75.00		509.15	12.00		-0.0195	-0.23	508.92	24.00		-0.0195	-0.47	508.45	24.00		-0.0195	-0.47	507.98	12.00		-0.0200	-0.24	507.74	
105+80.86		509.05	12.00		-0.0200	-0.24	508.81	24.00		-0.0200	-0.48	508.33	24.00		-0.0200	-0.48	507.85	12.00		-0.0200	-0.24	507.61	RC
106+00.00		508.73	12.00		-0.0212	-0.25	508.48	24.00		-0.0212	-0.51	507.97	24.00		-0.0212	-0.51	507.46	12.00		-0.0212	-0.25	507.20	
106+25.00		508.37	12.00	213:1	-0.0229	-0.27	508.09	24.00	213:1	-0.0229	-0.55	507.54	24.00		-0.0229	-0.55	506.99	12.00		-0.0229	-0.27	506.72	
106+50.00		508.05	12.00		-0.0245	-0.29	507.76	24.00		-0.0245	-0.59	507.17	24.00		-0.0245	-0.59	506.58	12.00		-0.0245	-0.29	506.29	
106+75.00		507.79	12.00		-0.0261	-0.31	507.47	24.00		-0.0261	-0.63	506.85	24.00		-0.0261	-0.63	506.22	12.00		-0.0261	-0.31	505.90	
107+00.00		507.57	12.00		-0.0278	-0.33	507.24	24.00		-0.0278	-0.67	506.57	24.00		-0.0278	-0.67	505.91	12.00		-0.0278	-0.33	505.57	
107+25.00		507.41	12.00		-0.0294	-0.35	507.06	24.00		-0.0294	-0.71	506.35	24.00		-0.0294	-0.71	505.65	12.00		-0.0294	-0.35	505.30	
107+50.00		507.30	12.00		-0.0310	-0.37	506.93	24.00		-0.0310	-0.74	506.19	24.00		-0.0310	-0.74	505.44	12.00		-0.0310	-0.37	505.07	
107+64.89		507.26	12.00		-0.0320	-0.38	506.88	24.00		-0.0320	-0.77	506.11	24.00	213:1	-0.0320	-0.77	505.34	12.00		-0.0320	-0.38	504.96	PC
107+75.00		507.25	12.00		-0.0327	-0.39	506.85	24.00		-0.0327	-0.78	506.07	24.00		-0.0327	-0.78	505.29	12.00	213:1	-0.0327	-0.39	504.89	
108+00.00		507.24	12.00		-0.0343	-0.41	506.83	24.00		-0.0343	-0.82	506.01	24.00		-0.0343	-0.82	505.18	12.00		-0.0343	-0.41	504.77	
108+25.00		507.29	12.00		-0.0359	-0.43	506.85	24.00		-0.0359	-0.86	505.99	24.00		-0.0359	-0.86	505.13	12.00		-0.0359	-0.43	504.70	
108+50.00		507.38	12.00		-0.0375	-0.45	506.93	24.00		-0.0375	-0.90	506.03	24.00		-0.0375	-0.90	505.13	12.00		-0.0375	-0.45	504.68	
108+75.00		507.53	12.00		-0.0392	-0.47	507.06	24.00		-0.0392	-0.94	506.12	24.00		-0.0392	-0.94	505.18	12.00		-0.0392	-0.47	504.71	
109+00.00		507.73	12.00		-0.0408	-0.49	507.24	24.00		-0.0408	-0.98	506.26	24.00		-0.0408	-0.98	505.28	12.00		-0.0408	-0.49	504.79	
109+25.00		507.99	12.00		-0.0424	-0.51	507.48	24.00		-0.0424	-1.02	506.46	24.00		-0.0424	-1.02	505.44	12.00		-0.0424	-0.51	504.93	
109+50.00		508.29	12.00		-0.0441	-0.53	507.76	24.00		-0.0441	-1.06	506.70	24.00		-0.0441	-1.06	505.65	12.00		-0.0441	-0.53	505.12	
109+75.00		508.65	12.00		-0.0457	-0.55	508.10	24.00		-0.0457	-1.10	507.00	24.00		-0.0457	-1.10	505.90	12.00		-0.0457	-0.55	505.36	
110+00.00		509.05	12.00		-0.0473	-0.57	508.49	24.00		-0.0473	-1.14	507.35	24.00		-0.0473	-1.14	506.21	12.00		-0.0473	-0.57	505.65	
110+10.27		509.24	12.00		-0.0480	-0.58	508.66	24.00		-0.0480	-1.15	507.51	24.00		-0.0480	-1.15	506.36	12.00		-0.0480	-0.58	505.78	FS
110+25.00		509.51	12.00		-0.0480	-0.58	508.94	24.00		-0.0480	-1.15	507.78	24.00		-0.0480	-1.15	506.63	12.00		-0.0480	-0.58	506.06	
110+50.00		510.02	12.00		-0.0480	-0.58	509.45	24.00		-0.0480	-1.15	508.30	24.00		-0.0480	-1.15	507.14	12.00		-0.0480	-0.58	506.57	
110+75.00		510.59	12.00		-0.0480	-0.58	510.01	24.00		-0.0480	-1.15	508.86	24.00		-0.0480	-1.15	507.71	12.00		-0.0480	-0.58	507.13	
111+00.00		511.20	12.00		-0.0480	-0.58	510.62	24.00		-0.0480	-1.15	509.47	24.00		-0.0480	-1.15	508.32	12.00		-0.0480	-0.58	507.74	
111+25.00		511.84	12.00		-0.0480	-0.58	511.26	24.00		-0.0480	-1.15	510.11	24.00		-0.0480	-1.15	508.96	12.00		-0.0480	-0.58	508.38	
111+50.00		512.48	12.00		-0.0480	-0.58	511.90	24.00		-0.0480	-1.15	510.75	24.00		-0.0480	-1.15	509.60	12.00		-0.0480	-0.58	509.02	
111+75.00		513.12	12.00		-0.0480	-0.58	512.54	24.00		-0.0480	-1.15	511.39	24.00		-0.0480	-1.15	510.24	12.00		-0.0480	-0.58	509.66	
112+00.00		513.76	12.00		-0.0480	-0.58	513.18	24.00		-0.0480	-1.15	512.03	24.00		-0.0480	-1.15	510.88	12.00		-0.0480	-0.58	510.30	
112+25.00		514.40	12.00		-0.0480	-0.58	513.82	24.00		-0.0480	-1.15	512.67	24.00		-0.0480	-1.15	511.52	12.00		-0.0480	-0.58	510.94	
112+50.00		515.04	12.00		-0.0480	-0.58	514.46	24.00		-0.0480	-1.15	513.31	24.00		-0.0480	-1.15	512.16	12.00		-0.0480	-0.58	511.58	
112+75.00		515.68	12.00		-0.0480	-0.58	515.10	24.00		-0.0480	-1.15	513.95	24.00		-0.0480	-1.15	512.80	12.00		-0.0480	-0.58	512.22	
113+00.00		516.32	12.00		-0.0480	-0.58	515.74	24.00		-0.0480	-1.15	514.59	24.00		-0.0480	-1.15	513.44	12.00		-0.0480	-0.58	512.86	
113+25.00		516.96	12.00		-0.0480	-0.58	516.38	24.00		-0.0480	-1.15	515.23	24.00		-0.0480	-1.15	514.08	12.00		-0.0480	-0.58	513.50	
113+50.00		517.60	12.00		-0.0480	-0.58	517.02	24.00		-0.0480	-1.15	515.87	24.00		-0.0480	-1.15	514.72	12.00		-0.0480	-0.58	514.14	
113+75.00		518.22	12.00		-0.0480	-0.58	517.64	24.00		-0.0480	-1.15	516.49	24.00		-0.0480	-1.15	515.34	12.00		-0.0480	-0.58	514.76	
114+00.00		518.78	12.00		-0.0480	-0.58	518.20	24.00		-0.0480	-1.15	517.05	24.00		-0.0480	-1.15	515.90	12.00		-0.0480	-0.58	515.32	
114+25.00		519.30	12.00		-0.0480	-0.58	518.72	24.00		-0.0480	-1.15	517.57	24.00		-0.0480	-1.15	516.42	12.00		-0.0480	-0.58	515.84	
114+50.00		519.76	12.00		-0.0480	-0.58	519.18	24.00		-0.0480	-1.15	518.03	24.00		-0.0480	-1.15	516.88	12.00		-0.0480	-0.58	516.30	
114+75.00		520.18	13.00		-0.0480	-0.62	519.55	24.00		-0.0480	-1.15	518.40	24.00		-0.0480	-1.15	517.25	12.00		-0.0480	-0.58	516.67	
115+00.00		520.54	14.00		-0.0480	-0.67	519.87	24.00		-0.0480	-1.15	518.72	24.00		-0.0480	-1.15	517.56	12.00		-0.0480	-0.58	516.99	
115+25.00		520.86	15.00		-0.0480	-0.72	520.14	24.00		-0.0480	-1.15	518.98	24.00		-0.0480	-1.15	517.83	12.00		-0.0480	-0.58	517.26	
115+50.00		521.12	16.00		-0.0480	-0.77	520.35	24.00		-0.0480	-1.15	519.20	24.00		-0.0480	-1.15	518.05	12.00		-0.0480	-0.58	517.47	

SUPERELEVATION TABLE
IR 75 NORTHBOUND - CURVE NO 1

DESIGN AGENCY: EMH&T
DESIGNER: SJB
REVIEWER: MJR 06/21/24
PROJECT ID: 114161
SHEET: P.299 TOTAL: 463

HAM-75-1.95

MODEL: IR-75 NB CURVE 1A PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:18:28 AM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\V01-Engineering_EMHT\Roadway\Sheets\114161_GE001.dgn

SUPERELEVATION TABLE - IR-75 NORTHBOUND - CURVE NO 1

PI STA 114+25.91 | Dc = 02° 45' 00"

STATION	INSIDE EDGE (PROFILE GRADE)		RIGHT SIDE																		REMARKS
	OFFSET	ELEVATION	WIDTH	TRANSITION RATE	CROSS SLOPE	ELEVATION CORRECTION	ELEVATION	WIDTH	TRANSITION RATE	CROSS SLOPE	ELEVATION CORRECTION	ELEVATION	WIDTH	TRANSITION RATE	CROSS SLOPE	ELEVATION CORRECTION	ELEVATION	WIDTH	TRANSITION RATE	CROSS SLOPE	ELEVATION CORRECTION	ELEVATION	
115+75.00		521.34	12.00		-0.0480	-0.58	520.76	24.00		-0.0480	-1.15	519.61	24.00		-0.0480	-1.15	518.46	12.00		-0.0480	-0.58	517.88	
116+00.00		521.50	12.00		-0.0480	-0.58	520.92	24.00		-0.0480	-1.15	519.77	24.00		-0.0480	-1.15	518.62	12.00		-0.0480	-0.58	518.04	
116+25.00		521.62	12.00		-0.0480	-0.58	521.04	24.00		-0.0480	-1.15	519.89	24.00		-0.0480	-1.15	518.74	12.00		-0.0480	-0.58	518.16	
116+50.00		521.68	12.00		-0.0480	-0.58	521.10	24.00		-0.0480	-1.15	519.95	24.00		-0.0480	-1.15	518.80	12.00		-0.0480	-0.58	518.22	
116+75.00		521.70	12.00		-0.0480	-0.58	521.12	24.00		-0.0480	-1.15	519.97	24.00		-0.0480	-1.15	518.82	12.00		-0.0480	-0.58	518.24	
117+00.00		521.66	12.00		-0.0480	-0.58	521.08	24.00		-0.0480	-1.15	519.93	24.00		-0.0480	-1.15	518.78	12.00		-0.0480	-0.58	518.20	
117+25.00		521.58	12.00		-0.0480	-0.58	521.00	24.00		-0.0480	-1.15	519.85	24.00		-0.0480	-1.15	518.70	12.00		-0.0480	-0.58	518.12	
117+50.00		521.44	12.00		-0.0480	-0.58	520.86	24.00		-0.0480	-1.15	519.71	24.00		-0.0480	-1.15	518.56	12.00		-0.0480	-0.58	517.98	
117+75.00		521.28	12.00		-0.0480	-0.58	520.70	24.00		-0.0480	-1.15	519.55	24.00		-0.0480	-1.15	518.40	12.00		-0.0480	-0.58	517.82	
118+00.00		521.12	12.00		-0.0480	-0.58	520.54	24.00		-0.0480	-1.15	519.39	24.00		-0.0480	-1.15	518.24	12.00		-0.0480	-0.58	517.66	
118+25.00		520.96	12.00		-0.0480	-0.58	520.38	24.00		-0.0480	-1.15	519.23	24.00		-0.0480	-1.15	518.08	12.00		-0.0480	-0.58	517.50	
118+40.59		520.86	12.00		-0.0480	-0.58	520.28	24.00		-0.0480	-1.15	519.13	24.00		-0.0480	-1.15	517.98	12.00		-0.0480	-0.58	517.40	FS
118+50.00		520.80	12.00		-0.0473	-0.57	520.23	24.00		-0.0473	-1.13	519.10	24.00		-0.0473	-1.13	517.96	12.00		-0.0473	-0.57	517.40	
118+75.00		520.64	12.00		-0.0453	-0.54	520.10	24.00		-0.0453	-1.09	519.01	24.00		-0.0453	-1.09	517.92	12.00		-0.0453	-0.54	517.38	
119+00.00		520.48	12.00		-0.0434	-0.52	519.96	24.00		-0.0434	-1.04	518.92	24.00		-0.0434	-1.04	517.88	12.00		-0.0434	-0.52	517.36	
119+25.00		520.32	12.00		-0.0414	-0.50	519.82	24.00		-0.0414	-0.99	518.83	24.00		-0.0414	-0.99	517.84	12.00		-0.0414	-0.50	517.34	
119+50.00		520.16	12.00		-0.0394	-0.47	519.69	24.00		-0.0394	-0.95	518.74	24.00		-0.0394	-0.95	517.79	12.00		-0.0394	-0.47	517.32	
119+75.00		520.00	12.00		-0.0375	-0.45	519.55	24.00		-0.0375	-0.90	518.65	24.00		-0.0375	-0.90	517.75	12.00		-0.0375	-0.45	517.30	
120+00.00		519.84	12.00		-0.0355	-0.43	519.41	24.00		-0.0355	-0.85	518.56	24.00		-0.0355	-0.85	517.71	12.00		-0.0355	-0.43	517.28	
120+25.00		519.68	12.00		-0.0336	-0.40	519.28	24.00		-0.0336	-0.81	518.47	24.00		-0.0336	-0.81	517.67	12.00	213:1	-0.0336	-0.40	517.26	
120+45.07		519.58	12.00		-0.0320	-0.38	519.20	24.00		-0.0320	-0.77	518.43	24.00	213:1	-0.0320	-0.77	517.66	12.00		-0.0320	-0.38	517.28	PT
120+50.00		519.56	12.00		-0.0316	-0.38	519.18	24.00		-0.0316	-0.76	518.42	24.00		-0.0316	-0.76	517.66	12.00		-0.0316	-0.38	517.28	
120+75.00		519.48	12.00		-0.0297	-0.36	519.12	24.00		-0.0297	-0.71	518.41	24.00		-0.0297	-0.71	517.70	12.00		-0.0297	-0.36	517.34	
121+00.00		519.44	12.00		-0.0277	-0.33	519.11	24.00		-0.0277	-0.66	518.44	24.00		-0.0277	-0.66	517.78	12.00		-0.0277	-0.33	517.44	
121+25.00		519.45	12.00		-0.0257	-0.31	519.14	24.00		-0.0257	-0.62	518.52	24.00		-0.0257	-0.62	517.90	12.00		-0.0257	-0.31	517.59	
121+50.00		519.50	12.00		-0.0238	-0.29	519.21	24.00		-0.0238	-0.57	518.64	24.00		-0.0238	-0.57	518.07	12.00		-0.0238	-0.29	517.78	
121+75.00		519.59	12.00		-0.0218	-0.26	519.33	24.00		-0.0218	-0.52	518.81	24.00		-0.0218	-0.52	518.28	12.00		-0.0218	-0.26	518.02	
121+98.43		519.71	12.00		-0.0200	-0.24	519.47	24.00		-0.0200	-0.48	518.99	24.00		-0.0200	-0.48	518.51	12.00		-0.0200	-0.24	518.27	RC
122+00.00		519.72	12.00	213:1	-0.0199	-0.24	519.48	24.00	213:1	-0.0199	-0.48	519.00	24.00		-0.0199	-0.48	518.53	12.00		-0.0200	-0.24	518.29	
122+25.00		519.85	12.00		-0.0179	-0.22	519.63	24.00		-0.0179	-0.43	519.20	24.00		-0.0179	-0.43	518.77	12.00		-0.0200	-0.24	518.53	
122+49.55		519.98	12.00		-0.0160	-0.19	519.79	24.00		-0.0160	-0.38	519.40	24.00		-0.0160	-0.38	519.02	12.00		-0.0200	-0.24	518.78	RC
122+50.00		519.98	12.00		-0.0159	-0.19	519.79	24.00		-0.0159	-0.38	519.41	24.00		-0.0160	-0.38	519.02	12.00		-0.0200	-0.24	518.78	
122+75.00		520.11	12.00		-0.0127	-0.15	519.96	24.00		-0.0127	-0.30	519.65	24.00		-0.0160	-0.38	519.27	12.00		-0.0200	-0.24	519.03	
123+00.00		520.24	12.00		-0.0094	-0.11	520.13	24.00		-0.0094	-0.23	519.90	24.00		-0.0160	-0.38	519.52	12.00		-0.0200	-0.24	519.28	
123+25.00		520.37	12.00		-0.0062	-0.07	520.30	24.00		-0.0062	-0.15	520.15	24.00		-0.0160	-0.38	519.76	12.00		-0.0200	-0.24	519.52	
123+50.00		520.50	12.00		-0.0029	-0.03	520.47	24.00		-0.0029	-0.07	520.40	24.00		-0.0160	-0.38	520.01	12.00		-0.0200	-0.24	519.77	
123+72.24		520.62	12.00		0.0000	0.00	520.62	24.00		0.0000	0.00	520.62	24.00		-0.0160	-0.38	520.24	12.00		-0.0200	-0.24	520.00	FLAT
123+75.00		520.63	12.00		0.0004	0.00	520.63	24.00		0.0004	0.01	520.64	24.00		-0.0160	-0.38	520.26	12.00		-0.0200	-0.24	520.02	
124+00.00		520.76	12.00		0.0036	0.04	520.80	24.00		0.0036	0.09	520.89	24.00		-0.0160	-0.38	520.51	12.00		-0.0200	-0.24	520.27	
124+25.00		520.89	12.00		0.0069	0.08	520.97	24.00		0.0069	0.17	521.14	24.00		-0.0160	-0.38	520.75	12.00		-0.0200	-0.24	520.51	
124+50.00		521.02	12.00		0.0101	0.12	521.14	24.00		0.0101	0.24	521.39	24.00		-0.0160	-0.38	521.00	12.00		-0.0200	-0.24	520.76	
124+75.00		521.15	12.00		0.0134	0.16	521.31	24.00		0.0134	0.32	521.63	24.00		-0.0160	-0.38	521.25	12.00		-0.0200	-0.24	521.01	
124+94.93		521.25	12.00		0.0160	0.19	521.44	24.00		0.0160	0.38	521.83	24.00		-0.0160	-0.38	521.44	12.00		-0.0200	-0.24	521.20	
125+00.00		521.28	12.00		0.0180	0.22	521.50	24.00		0.0160	0.38	521.88	24.00		-0.0160	-0.38	521.50	12.00		-0.0200	-0.24	521.26	
125+05.15		521.31	12.00		0.0200	0.24	521.55	24.00		0.0160	0.38	521.93	24.00		-0.0160	-0.38	521.55	12.00		-0.0200	-0.24	521.31	NC

SUPERELEVATION TABLE
IR 75 NORTHBOUND - CURVE NO 1

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.300 | TOTAL 463

HAM-75-1.95

MODEL: IR-75 NB CURVE 1B PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:18:29 AM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GE001.dgn

SUPERELEVATION TABLE - IR-75 NORTHBOUND - CURVE NO 2

PI STA 135+97.72 | Dc = 01° 30′ 00″

STATION	INSIDE EDGE (PROFILE GRADE)		RIGHT SIDE																		REMARKS
	OFFSET	ELEVATION	WIDTH	TRANSITION RATE	CROSS SLOPE	ELEVATION CORRECTION	ELEVATION	WIDTH	TRANSITION RATE	CROSS SLOPE	ELEVATION CORRECTION	ELEVATION	WIDTH	TRANSITION RATE	CROSS SLOPE	ELEVATION CORRECTION	ELEVATION	WIDTH	TRANSITION RATE	CROSS SLOPE	ELEVATION CORRECTION	ELEVATION	
127+88.15		520.71	12.00		0.0200	0.24	520.95	24.00		0.0160	0.38	521.33	24.00		-0.0160	-0.38	520.95	12.00		-0.0200	-0.24	520.71	NC
127+98.38		520.61	12.00		0.0160	0.19	520.80	24.00		0.0160	0.38	521.19	24.00		-0.0160	-0.38	520.80	12.00		-0.0200	-0.24	520.56	
128+00.00		520.60	12.00		0.0158	0.19	520.78	24.00		0.0158	0.38	521.16	24.00		-0.0160	-0.38	520.78	12.00		-0.0200	-0.24	520.54	
128+25.00		520.35	12.00		0.0125	0.15	520.50	24.00		0.0125	0.30	520.80	24.00		-0.0160	-0.38	520.42	12.00		-0.0200	-0.24	520.18	
128+50.00		520.11	12.00		0.0093	0.11	520.22	24.00		0.0093	0.22	520.44	24.00		-0.0160	-0.38	520.06	12.00		-0.0200	-0.24	519.82	
128+75.00		519.86	12.00		0.0060	0.07	519.93	24.00		0.0060	0.14	520.08	24.00		-0.0160	-0.38	519.69	12.00		-0.0200	-0.24	519.45	
129+00.00		519.62	12.00		0.0027	0.03	519.65	24.00		0.0027	0.07	519.72	24.00		-0.0160	-0.38	519.33	12.00		-0.0200	-0.24	519.09	
129+21.06		519.41	12.00		0.0000	0.00	519.41	24.00		0.0000	0.00	519.41	24.00		-0.0160	-0.38	519.03	12.00		-0.0200	-0.24	518.79	FLAT
129+25.00		519.37	12.00		-0.0005	-0.01	519.37	24.00		-0.0005	-0.01	519.36	24.00		-0.0160	-0.38	518.97	12.00		-0.0200	-0.24	518.73	
129+50.00		519.13	12.00		-0.0038	-0.05	519.08	24.00		-0.0038	-0.09	518.99	24.00		-0.0160	-0.38	518.61	12.00		-0.0200	-0.24	518.37	
129+75.00		518.89	12.00		-0.0070	-0.08	518.80	24.00		-0.0070	-0.17	518.63	24.00		-0.0160	-0.38	518.25	12.00		-0.0200	-0.24	518.01	
130+00.00		518.64	12.00		-0.0103	-0.12	518.52	24.00		-0.0103	-0.25	518.27	24.00		-0.0160	-0.38	517.89	12.00		-0.0200	-0.24	517.65	
130+25.00		518.40	12.00	213:1	-0.0136	-0.16	518.23	24.00	213:1	-0.0136	-0.33	517.91	24.00		-0.0160	-0.38	517.53	12.00		-0.0200	-0.24	517.29	
130+43.75		518.21	12.00		-0.0160	-0.19	518.02	24.00		-0.0160	-0.38	517.63	24.00		-0.0160	-0.38	517.25	12.00		-0.0200	-0.24	517.01	RC
130+50.00		518.15	12.00		-0.0165	-0.20	517.96	24.00		-0.0165	-0.40	517.56	24.00		-0.0165	-0.40	517.16	12.00		-0.0200	-0.24	516.92	
130+75.00		517.91	12.00		-0.0184	-0.22	517.69	24.00		-0.0184	-0.44	517.24	24.00		-0.0184	-0.44	516.80	12.00		-0.0200	-0.24	516.56	
130+94.87		517.71	12.00		-0.0200	-0.24	517.47	24.00		-0.0200	-0.48	516.99	24.00		-0.0200	-0.48	516.51	12.00		-0.0200	-0.24	516.27	RC
131+00.00		517.66	12.00		-0.0204	-0.24	517.42	24.00		-0.0204	-0.49	516.93	24.00		-0.0204	-0.49	516.44	12.00		-0.0204	-0.24	516.20	
131+11.91		517.55	12.00		-0.0213	-0.26	517.29	24.00		-0.0213	-0.51	516.78	24.00	213:1	-0.0213	-0.51	516.27	12.00		-0.0213	-0.26	516.01	PC
131+25.00		517.45	12.00		-0.0224	-0.27	517.18	24.00		-0.0224	-0.54	516.64	24.00		-0.0224	-0.54	516.10	12.00		-0.0224	-0.27	515.84	
131+50.00		517.27	12.00		-0.0243	-0.29	516.98	24.00		-0.0243	-0.58	516.40	24.00		-0.0243	-0.58	515.82	12.00	213:1	-0.0243	-0.29	515.52	
131+75.00		517.15	12.00		-0.0263	-0.32	516.84	24.00		-0.0263	-0.63	516.21	24.00		-0.0263	-0.63	515.58	12.00		-0.0263	-0.32	515.26	
132+00.00		517.08	12.00		-0.0282	-0.34	516.74	24.00		-0.0282	-0.68	516.07	24.00		-0.0282	-0.68	515.39	12.00		-0.0282	-0.34	515.05	
132+25.00		517.06	12.00		-0.0302	-0.36	516.70	24.00		-0.0302	-0.72	515.97	24.00		-0.0302	-0.72	515.25	12.00		-0.0302	-0.36	514.89	
132+48.23		517.08	12.00		-0.0320	-0.38	516.70	24.00		-0.0320	-0.77	515.93	24.00		-0.0320	-0.77	515.16	12.00		-0.0320	-0.38	514.78	FS
132+50.00		517.09	12.00		-0.0320	-0.38	516.70	24.00		-0.0320	-0.77	515.93	24.00		-0.0320	-0.77	515.17	12.00		-0.0320	-0.38	514.78	
132+75.00		517.16	12.00		-0.0320	-0.38	516.78	24.00		-0.0320	-0.77	516.01	24.00		-0.0320	-0.77	515.24	12.00		-0.0320	-0.38	514.86	
133+00.00		517.29	12.00		-0.0320	-0.38	516.90	24.00		-0.0320	-0.77	516.14	24.00		-0.0320	-0.77	515.37	12.00		-0.0320	-0.38	514.98	
138+75.00		514.92	24.00		-0.0320	-0.77	514.15	24.00		-0.0320	-0.77	513.38	12.00		-0.0320	-0.38	513.00						
139+00.00		514.69	24.00		-0.0320	-0.77	513.93	24.00		-0.0320	-0.77	513.16	12.00		-0.0320	-0.38	512.77						
139+25.00		514.52	24.00		-0.0320	-0.77	513.75	24.00		-0.0320	-0.77	512.99	12.00		-0.0320	-0.38	512.60						
139+42.01		514.43	24.00		-0.0320	-0.77	513.66	24.00		-0.0320	-0.77	512.89	12.00		-0.0320	-0.38	512.51						FS
139+50.00		514.40	24.00		-0.0314	-0.75	513.65	24.00		-0.0314	-0.75	512.90	12.00		-0.0314	-0.38	512.52						
139+75.00		514.33	24.00		-0.0294	-0.71	513.62	24.00		-0.0294	-0.71	512.92	12.00		-0.0294	-0.35	512.57						
140+00.00		514.31	24.00		-0.0275	-0.66	513.65	24.00		-0.0275	-0.66	512.99	12.00		-0.0275	-0.33	512.66						
140+25.00		514.34	24.00		-0.0255	-0.61	513.73	24.00		-0.0255	-0.61	513.12	12.00	213:1	-0.0255	-0.31	512.81						
140+50.00		514.43	24.00		-0.0236	-0.57	513.86	24.00	213:1	-0.0236	-0.57	513.30	12.00		-0.0236	-0.28	513.01						
140+75.00		514.56	24.00		-0.0216	-0.52	514.04	24.00		-0.0216	-0.52	513.52	12.00		-0.0216	-0.26	513.26						
140+78.33		514.58	24.00		-0.0213	-0.51	514.07	24.00		-0.0213	-0.51	513.56	12.00		-0.0213	-0.26	513.30						PT
140+95.37		514.71	24.00		-0.0200	-0.48	514.23	24.00		-0.0200	-0.48	513.75	12.00		-0.0200	-0.24	513.51						RC
141+00.00		514.74	24.00		-0.0195	-0.47	514.27	24.00		-0.0195	-0.47	513.80	12.00		-0.0200	-0.24	513.56						
141+25.00		514.98	24.00	213:1	-0.0171	-0.41	514.57	24.00		-0.0171	-0.41	514.16	12.00		-0.0200	-0.24	513.92						
141+36.27		515.10	24.00		-0.0160	-0.38	514.72	24.00		-0.0160	-0.38	514.33	12.00		-0.0200	-0.24	514.09						RC
141+50.00		515.26	24.00		-0.0133	-0.32	514.94	24.00		-0.0160	-0.38	514.56	12.00		-0.0200	-0.24	514.32						
141+75.00		515.60	24.00		-0.0084	-0.20	515.40	24.00		-0.0160	-0.38	515.01	12.00		-0.0200	-0.24	514.77						
142+00.00		515.99	24.00		-0.0035	-0.08	515.90	24.00		-0.0160	-0.38	515.52	12.00		-0.0200	-0.24	515.28						
142+18.06		516.30	24.00		0.0000	0.00	516.30	24.00		-0.0160	-0.38	515.92	12.00		-0.0200	-0.24	515.68						FLAT
142+25.00		516.42	24.00		0.0014	0.03	516.46	24.00		-0.0160	-0.38	516.07	12.00		-0.0200	-0.24	515.83						
142+50.00		516.91	24.00		0.0062	0.15	517.06	24.00		-0.0160	-0.38	516.68	12.00		-0.0200	-0.24	516.44						
142+75.00		517.45	24.00		0.0111	0.27	517.72	24.00		-0.0160	-0.38	517.33	12.00		-0.0200	-0.24	517.09						
142+99.85		518.04	24.00		0.0160	0.38	518.42	24.00		-0.0160	-0.38	518.04	12.00		-0.0200	-0.24	517.80						NC

SUPERELEVATION TABLE
IR 75 NORTHBOUND - CURVE NO 2

DESIGN AGENCY
EMH&T

DESIGNER SJB
REVIEWER MJR 06/21/24
PROJECT ID 114161
SHEET P.301 TOTAL 463

HAM-75-1.95

MODEL: IR-75 NB CURVE 2 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:18:30 AM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMH&T\Roadway\Sheets\114161_GE001.dgn

SUPERELEVATION TABLE - IR-75 NORTHBOUND - CURVE NO 3

PI STA 163+68.90 | Dc = 02° 00′ 00″

STATION	INSIDE EDGE (PROFILE GRADE)		RIGHT SIDE																		REMARKS
	OFFSET	ELEVATION	WIDTH	TRANSITION RATE	CROSS SLOPE	ELEVATION CORRECTION	ELEVATION	WIDTH	TRANSITION RATE	CROSS SLOPE	ELEVATION CORRECTION	ELEVATION	WIDTH	TRANSITION RATE	CROSS SLOPE	ELEVATION CORRECTION	ELEVATION	WIDTH	TRANSITION RATE	CROSS SLOPE	ELEVATION CORRECTION	ELEVATION	
149+79.86		533.51	24.00		0.0160	0.38	533.89	24.00		-0.0200	-0.48	533.41	24.00		-0.0200	-0.48	532.93						NC
149+90.52		533.67	24.00		0.0160	0.38	534.05	24.00		-0.0160	-0.38	533.67	24.00		-0.0160	-0.38	533.29						
150+00.00		533.81	24.00		0.0160	0.38	534.20	24.00		-0.0148	-0.36	533.84	24.00		-0.0148	-0.36	533.49						
150+25.00		534.18	24.00		0.0160	0.38	534.56	24.00		-0.0117	-0.28	534.28	24.00		-0.0117	-0.28	534.00						
150+50.00		534.52	24.00		0.0160	0.38	534.90	24.00		-0.0086	-0.21	534.70	24.00		-0.0086	-0.21	534.49						
150+75.00		534.84	24.00		0.0160	0.38	535.22	24.00		-0.0054	-0.13	535.09	24.00		-0.0054	-0.13	534.96						
151+00.00		535.14	24.00		0.0160	0.38	535.53	24.00		-0.0023	-0.06	535.47	24.00		-0.0023	-0.06	535.41						
151+18.39		535.35	24.00		0.0160	0.38	535.73	24.00		0.0000	0.00	535.73	24.00		0.0000	0.00	535.73						FLAT
151+25.00		535.42	24.00		0.0160	0.38	535.81	24.00	222:1	0.0008	0.02	535.83	24.00	222:1	0.0008	0.02	535.85						
151+50.00		535.68	24.00		0.0160	0.38	536.07	24.00		0.0040	0.09	536.16	24.00		0.0040	0.09	536.26						
151+75.00		535.93	24.00		0.0160	0.38	536.31	24.00		0.0071	0.17	536.48	24.00		0.0071	0.17	536.65						
152+00.00		536.15	24.00		0.0160	0.38	536.53	24.00		0.0102	0.25	536.78	24.00		0.0102	0.25	537.02						
152+25.00		536.35	24.00		0.0160	0.38	536.73	24.00		0.0133	0.32	537.05	24.00		0.0133	0.32	537.37						
152+46.26		536.50	24.00	222:1	0.0160	0.38	536.88	24.00		0.0160	0.38	537.27	24.00		0.0160	0.38	537.65						RC
152+50.00		536.53	24.00		0.0163	0.39	536.92	24.00		0.0163	0.39	537.31	24.00		0.0163	0.39	537.70						

SUPERELEVATION TABLE
IR 75 NORTHBOUND - CURVE NO 3

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.302 | TOTAL 463

HAM-75-1.95

MODEL: IR-75 NB CURVE 3 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:18:31 AM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GE001.dgn

SUPERELEVATION TABLE - RAMP A - CURVE NO A1

PI STA 502+11.74 | Dc = 04° 00' 00"

LEFT SIDE					BASELINE CONTROL		RIGHT SIDE					
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	REMARKS
518.20	200:1	0.58	4.80%	12.00	500+00.00	517.62						FS
518.33		0.63	5.20%	12.21	500+12.80	517.70						
518.45		0.65	5.20%	12.41	500+25.00	517.80						
518.64		0.67	5.20%	12.81	500+50.00	517.97						PT
518.77		0.69	5.20%	13.22	500+75.00	518.08						
518.83		0.71	5.20%	13.63	501+00.00	518.12						
518.84		0.73	5.20%	14.03	501+25.00	518.11						NC
518.79		0.75	5.20%	14.44	501+50.00	518.04						
518.67		0.77	5.20%	14.84	501+75.00	517.90						
518.50		0.79	5.20%	15.25	502+00.00	517.71						FLAT
518.32		0.81	5.20%	15.66	502+25.00	517.51						
518.09		0.83	5.20%	16.00	502+50.00	517.26						
517.86		0.83	5.20%	16.00	502+75.00	517.03						
517.72		0.83	5.20%	16.00	503+00.00	516.89						
517.61		0.83	5.20%	16.00	503+25.00	516.78						
517.51		0.83	5.20%	16.00	503+50.00	516.68						
517.51		0.83	5.20%	16.00	503+50.04	516.68						FS
517.42		0.71	4.42%	16.00	503+75.00	516.71						
517.32		0.58	3.64%	16.00	504+00.00	516.74						
517.25		0.48	3.00%	16.00	504+20.44	516.77						PT
517.23		0.46	2.86%	16.00	504+25.00	516.77						
517.19	200:1	0.33	2.08%	16.00	504+50.00	516.86						
517.16		0.26	1.60%	16.00	504+65.24	516.90						NC
517.21		0.21	1.30%	16.00	504+75.00	517.00						
517.28		0.08	0.52%	16.00	505+00.00	517.20						
517.37		0.00	0.00%	16.00	505+16.49	517.37						FLAT

Since Curve A1 is occurring prior to the exit gore I think transition rate should be 213:1 which matches the mainline design speed.

The cross slope is showing full superelevation. I think these remarks are in error.

cross slopes for mainline tables are not in % format. should be consistent.

SUPERELEVATION TABLE - RAMP A - CURVE NO A2

PI STA 506+73.29 | Dc = 01° 30' 00"

LEFT SIDE					BASELINE CONTROL		RIGHT SIDE					
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	REMARKS
517.37		0.00	0.00%	16.00	505+16.49	517.37						FLAT
517.42		-0.04	-0.27%	16.00	505+25.00	517.46						
517.63		-0.17	-1.05%	16.00	505+50.00	517.80						
517.80	200:1	-0.26	-1.60%	16.00	505+67.69	518.06						RC
517.87		-0.29	-1.83%	16.00	505+75.00	518.17						
517.90		-0.30	-1.89%	16.00	505+76.97	518.20						PC
518.18		-0.42	-2.61%	16.00	506+00.00	518.60						
518.26		-0.45	-2.80%	16.00	506+06.09	518.71						FS
518.59		-0.45	-2.80%	16.00	506+25.00	519.04						
519.05		-0.45	-2.80%	16.00	506+50.00	519.49						
519.55		-0.45	-2.80%	16.00	506+75.00	520.00						
520.11		-0.45	-2.80%	16.00	507+00.00	520.56						
520.72		-0.45	-2.80%	16.00	507+25.00	521.16						
521.20		-0.45	-2.80%	16.00	507+43.88	521.65						FS
521.40		-0.41	-2.58%	16.00	507+50.00	521.82						
522.06	200:1	-0.30	-1.87%	16.00	507+69.57	522.36						PT
522.25		-0.27	-1.67%	16.00	507+75.00	522.52						
522.31		-0.26	-1.60%	16.00	507+76.91	522.57						NC

I'm calculating 507+39.81. 200 x 0.0093 x 16 = 29.76. 507+69.57 - 29.76 = 507+39.81.

I'm calculating 507+78.21. 200 x 0.0027 x 16 = 8.64. 507+69.57 + 8.64 = 507+78.21.

SUPERELEVATION TABLE
RAMP A - CURVE NO 1 & NO 2

DESIGN AGENCY: EMH&T

DESIGNER: SJB

REVIEWER: MJR 06/21/24

PROJECT ID: 114161

SHEET: P.303 | TOTAL: 463

HAM-75-1.95

MODEL: RAMP A - CURVE 1-2 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:18:41 AM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GE002.dgn

SUPERELEVATION TABLE - RAMP B - CURVE NO B1

PI STA 9+31.98 | Dc = 02° 36' 46"

LEFT SIDE					BASELINE CONTROL		RIGHT SIDE					
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	REMARKS
					8+00.00	525.76	16.00	-0.0480	-0.77	200:1	524.99	PC
					8+19.20	525.65	16.00	-0.0420	-0.67		524.98	FS
					8+25.00	525.61	16.00	-0.0420	-0.67		524.94	
					8+50.00	525.46	16.00	-0.0420	-0.67		524.79	
					8+75.00	525.31	16.00	-0.0420	-0.67		524.64	
					9+00.00	525.19	16.00	-0.0420	-0.67		524.52	
					9+25.00	525.12	16.00	-0.0420	-0.67		524.45	
					9+50.00	525.11	16.00	-0.0420	-0.67		524.44	
					9+75.00	525.16	16.00	-0.0420	-0.67		524.48	
					10+00.00	525.25	16.00	-0.0420	-0.67		524.58	
					10+21.57	525.38	16.00	-0.0420	-0.67		524.71	FS
					10+25.00	525.41	16.00	-0.0409	-0.65		524.75	
					10+50.00	525.61	16.00	-0.0331	-0.53		525.08	
					10+66.37	525.78	16.00	-0.0280	-0.45		525.33	PT
					10+75.00	525.88	16.00	-0.0253	-0.40		525.47	
					11+00.00	526.20	16.00	-0.0175	-0.28		525.92	
					11+04.77	526.26	16.00	-0.0160	-0.26	200:1	526.00	RC
					11+25.00	526.57	16.00	-0.0097	-0.15		526.41	
					11+50.00	527.00	16.00	-0.0019	-0.03		526.97	
					11+55.97	527.11	16.00	0.0000	0.00		527.11	FLAT
					11+75.00	527.48	16.00	0.0059	0.10		527.58	
					12+00.00	528.02	16.00	0.0138	0.22		528.24	
					12+07.17	528.18	16.00	0.0160	0.26		528.44	NC

SUPERELEVATION TABLE - RAMP B - CURVE NO B2

PI STA 19+12.47 | Dc = 05° 59' 58"

LEFT SIDE					BASELINE CONTROL		RIGHT SIDE					
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	REMARKS
					18+06.32	542.96	16.00	0.0160	0.26		543.22	NC
					18+25.00	543.06	16.00	0.0237	0.38		543.44	
					18+25.78	543.06	16.00	0.0240	0.38	152:1	543.44	PC
					18+50.00	543.19	16.00	0.0340	0.54		543.73	
					18+54.96	543.22	16.00	0.0360	0.58		543.80	FS
					18+75.00	543.32	16.00	0.0360	0.58		543.90	
					19+00.00	543.45	16.00	0.0360	0.58		544.03	
					19+25.00	543.58	16.00	0.0360	0.58		544.16	
					19+50.00	543.71	16.00	0.0360	0.58		544.29	
					19+71.34	543.82	16.00	0.0360	0.58		544.40	FS
					19+75.00	543.84	16.00	0.0345	0.55		544.39	
					20+00.00	543.97	16.00	0.0242	0.39	152:1	544.36	
					20+00.52	543.98	16.00	0.0240	0.38		544.36	PT
					20+19.98	544.07	16.00	0.0160	0.26		544.33	NC

SUPERELEVATION TABLE
RAMP B - CURVE NO 1 & NO 2

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.304 | TOTAL 463

HAM-75-1.95

MODEL: RAMP B - CURVE 1:2 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:18:49 AM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GE003.dgn

SUPERELEVATION TABLE - RAMP C - CURVE NO C1

PI STA 57+26.75 | Dc = 01° 30' 00"

LEFT SIDE					BASELINE CONTROL		RIGHT SIDE										REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
533.29		-0.13	-0.0160	8.00	53+57.32	533.42	4.00	0.0160	0.06		533.48	12.00	-0.0160	-0.19		533.29	NC
532.38		-0.07	-0.0086	8.00	53+75.00	532.45	4.00	0.0086	0.03		532.49	12.00	-0.0160	-0.19		532.29	
531.31		0.00	0.0000	8.00	53+95.72	531.31	4.00	0.0000	0.00		531.31	12.00	-0.0160	-0.19		531.12	FLAT
531.09		0.01	0.0018	8.00	54+00.00	531.08	4.00	-0.0018	-0.01		531.07	12.00	-0.0160	-0.19		530.88	
529.83		0.10	0.0122	8.00	54+25.00	529.73	4.00	-0.0122	-0.05		529.68	12.00	-0.0160	-0.19		529.49	
529.39	200:1	0.13	0.0160	8.00	54+34.12	529.26	4.00	-0.0160	-0.06	200:1	529.20	12.00	-0.0160	-0.19		529.00	RC
528.97		0.15	0.0187	8.00	54+42.65	528.82	4.00	-0.0187	-0.07		528.75	12.00	-0.0187	-0.22		528.52	PC
528.62		0.17	0.0210	8.00	54+50.00	528.45	4.00	-0.0210	-0.08		528.36	12.00	-0.0210	-0.25	200:1	528.11	
527.56		0.22	0.0280	8.00	54+72.52	527.34	4.00	-0.0280	-0.11		527.23	12.00	-0.0280	-0.34		526.89	FS
527.45		0.22	0.0280	8.00	54+75.00	527.23	4.00	-0.0280	-0.11		527.11	12.00	-0.0280	-0.34		526.78	
526.29		0.22	0.0280	8.00	55+00.00	526.06	4.00	-0.0280	-0.11		525.95	12.00	-0.0280	-0.34		525.61	
525.18		0.22	0.0280	8.00	55+25.00	524.96	4.00	-0.0280	-0.11		524.85	12.00	-0.0280	-0.34		524.51	
524.14		0.22	0.0280	8.00	55+50.00	523.92	4.00	-0.0280	-0.11		523.80	12.00	-0.0280	-0.34		523.47	
523.16		0.22	0.0280	8.00	55+75.00	522.93	4.00	-0.0280	-0.11		522.82	12.00	-0.0280	-0.34		522.49	
522.24		0.22	0.0280	8.00	56+00.00	522.01	4.00	-0.0280	-0.11		521.90	12.00	-0.0280	-0.34		521.56	
521.37		0.22	0.0280	8.00	56+25.00	521.15	4.00	-0.0280	-0.11		521.04	12.00	-0.0280	-0.34		520.70	
520.57		0.22	0.0280	8.00	56+50.00	520.35	4.00	-0.0280	-0.11		520.24	12.00	-0.0280	-0.34		519.90	
519.83		0.22	0.0280	8.00	56+75.00	519.61	4.00	-0.0280	-0.11		519.49	12.00	-0.0280	-0.34		519.16	
519.15		0.22	0.0280	8.00	57+00.00	518.93	4.00	-0.0280	-0.11		518.81	12.00	-0.0280	-0.34		518.48	
518.53		0.22	0.0280	8.00	57+25.00	518.31	4.00	-0.0280	-0.11		518.19	12.00	-0.0280	-0.34		517.86	
517.97		0.22	0.0280	8.00	57+50.00	517.75	4.00	-0.0280	-0.11		517.63	12.00	-0.0280	-0.34		517.30	
517.47		0.22	0.0280	8.00	57+75.00	517.25	4.00	-0.0280	-0.11		517.13	12.00	-0.0280	-0.34		516.80	
517.03		0.22	0.0280	8.00	58+00.00	516.81	4.00	-0.0280	-0.11		516.69	12.00	-0.0280	-0.34		516.36	
516.65		0.22	0.0280	8.00	58+25.00	516.43	4.00	-0.0280	-0.11		516.32	12.00	-0.0280	-0.34		515.98	
516.33		0.22	0.0280	8.00	58+50.00	516.11	4.00	-0.0280	-0.11		516.00	12.00	-0.0280	-0.34		515.66	
516.07		0.22	0.0280	8.00	58+75.00	515.85	4.00	-0.0280	-0.11		515.74	12.00	-0.0280	-0.34		515.40	
515.88		0.22	0.0280	8.00	59+00.00	515.65	4.00	-0.0280	-0.11		515.54	12.00	-0.0280	-0.34		515.20	
515.74		0.22	0.0280	8.00	59+25.00	515.51	4.00	-0.0280	-0.11		515.40	12.00	-0.0280	-0.34		515.07	
515.66		0.22	0.0280	8.00	59+50.00	515.44	4.00	-0.0280	-0.11		515.33	12.00	-0.0280	-0.34		514.99	
515.58		0.16	0.0280	5.58	59+75.00	515.42	4.00	-0.0280	-0.11		515.31	12.00	-0.0280	-0.34		514.97	
515.54		0.11	0.0280	4.10	59+84.21	515.43	4.00	-0.0280	-0.11		515.32	12.00	-0.0280	-0.34		514.98	FS
515.50	200:1	0.04	0.0231	1.57	60+00.00	515.46	4.00	-0.0231	-0.09	200:1	515.37	12.00	-0.0231	-0.28	200:1	515.09	
515.50		0.00	0.0200	0.00	60+09.81	515.50	4.00	-0.0200	-0.08		515.42	12.00	-0.0200	-0.24		515.18	PT

I'm calculating 54+34.01. If this correct the Flat and NC stationing needs to be revised. The distances for NC to Flat and flat to RC seems to be based on rotating 12'. The RC to FS seems to be based on rotating 16'.

I'm calculating 54+62.92.

The superelevation for Curve C1 represents a 50 mph design speed. See comment on Sheet #4.

SUPERELEVATION TABLE
RAMP C - CURVE NO 1

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.305 | TOTAL 463

HAM-75-1.95

MODEL: RAMP C - CURVE 1 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:18:58 AM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GE004.dgn

SUPERELEVATION TABLE - RAMP C - CURVE NO C2

PI STA 62+23.52 | Dc = 01° 00' 00"

LEFT SIDE					BASELINE CONTROL		RIGHT SIDE					
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	REMARKS
					60+81.43	516.23	16.00	-0.0200	-0.32		515.91	PC/FS
					61+00.00	516.24	16.00	-0.0200	-0.32		515.92	
					61+25.00	516.56	16.00	-0.0200	-0.32		516.24	
					61+50.00	516.87	16.00	-0.0200	-0.32		516.55	
					61+75.00	517.18	16.00	-0.0200	-0.32		516.86	
					62+00.00	517.50	16.00	-0.0200	-0.32		517.18	
					62+25.00	517.81	16.00	-0.0200	-0.32		517.49	
					62+50.00	518.13	16.00	-0.0200	-0.32		517.81	
					62+75.00	518.44	16.00	-0.0200	-0.32		518.12	
					63+00.00	518.76	16.00	-0.0200	-0.32		518.44	
					63+25.00	519.09	16.00	-0.0200	-0.32		518.77	
					63+44.22	519.58	16.00	-0.0200	-0.32		519.26	FS
					63+50.00	519.73	16.00	-0.0182	-0.29		519.44	
					63+57.02	519.91	16.00	-0.0160	-0.26		519.65	RC
					63+65.55	520.12	16.00	-0.0133	-0.21		519.91	PT
					63+75.00	520.36	16.00	-0.0104	-0.17		520.19	
					64+00.00	521.00	16.00	-0.0026	-0.04	200:1	520.96	
					64+08.22	521.21	16.00	0.0000	0.00		521.21	FLAT
					64+25.00	521.64	16.00	0.0052	0.08		521.72	
					64+50.00	522.28	16.00	0.0131	0.21		522.49	
					64+72.22	522.85	16.00	0.0200	0.32		523.17	NC

SUPERELEVATION TABLE - CONNECTOR - CURVE NO CON1

PI STA 14+18.83 | Dc = 22° 44' 11"

LEFT SIDE					BASELINE CONTROL		RIGHT SIDE					
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	REMARKS
					10+13.62	540.28	16.00	-0.0160	-0.26		540.02	TS/NC
					10+25.00	540.10	16.00	-0.0188	-0.30		539.80	
					10+50.00	539.70	16.00	-0.0250	-0.40		539.30	
					10+75.00	539.27	16.00	-0.0311	-0.50		538.77	
					11+00.00	538.58	16.00	-0.0373	-0.60	253:1	537.98	
					11+25.00	537.59	16.00	-0.0435	-0.70		536.89	
					11+50.00	536.30	16.00	-0.0496	-0.79		535.50	
					11+63.62	535.47	16.00	-0.0530	-0.85		534.62	SC/FS
					11+75.00	534.74	16.00	-0.0530	-0.85		533.89	
					12+00.00	533.14	16.00	-0.0530	-0.85		532.29	
					12+25.00	531.54	16.00	-0.0530	-0.85		530.69	
					12+50.00	529.94	16.00	-0.0530	-0.85		529.09	
					12+75.00	528.34	16.00	-0.0530	-0.85		527.49	
					13+00.00	526.74	16.00	-0.0530	-0.85		525.89	
					13+25.00	525.14	16.00	-0.0530	-0.85		524.29	
					13+50.00	523.54	16.00	-0.0530	-0.85		522.69	
					13+75.00	521.94	16.00	-0.0530	-0.85		521.09	
					14+00.00	520.34	16.00	-0.0530	-0.85		519.49	
					14+25.00	518.74	16.00	-0.0530	-0.85		517.89	
					14+50.00	517.14	16.00	-0.0530	-0.85		516.29	
					14+75.00	515.53	16.00	-0.0530	-0.85		514.69	
					15+00.00	513.93	16.00	-0.0530	-0.85		513.09	
					15+22.23	512.51	16.00	-0.0530	-0.85		511.66	FS
					15+25.00	512.33	16.00	-0.0518	-0.83		511.50	
					15+50.00	510.73	16.00	-0.0409	-0.65		510.08	
					15+62.65	509.73	16.00	-0.0353	-0.57	143:1	509.16	PT
					15+75.00	509.19	16.00	-0.0299	-0.48		508.72	
					16+00.00	508.09	16.00	-0.0190	-0.30		507.79	
					16+06.88	507.88	16.00	-0.0160	-0.26		507.62	NC

SUPERELEVATION TABLE
RAMP C - CURVE NO 2 & CONNECTOR - CURVE NO CON1

DESIGN AGENCY
EMH&T

DESIGNER SJB
REVIEWER MJR 06/21/24
PROJECT ID 114161
SHEET P.306 TOTAL 463

HAM-75-1.95

MODEL: RAMP C-LOCAL - CURVE 2-LOC2 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:18:59 AM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GE004.dgn

SUPERELEVATION TABLE - RAMP D - CURVE NO D1

PI STA 304+56.40 | Dc = 03° 00' 00"

I'm calculating a different half flat station: 303+10.34 - 2/3(200 x 0.045 x 12) = 302+38.34. This will revise the NC and RC stations. This comment also applies to the PT of this curve.

LEFT SIDE										BASELINE CONTROL		
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	REMARKS
495.68		-0.19	-0.0160	12.00	495.87		0.19	0.0160	12.00	301+66.34	495.68	NC
495.90		-0.15	-0.0124	12.00	496.05		0.19	0.0160	12.00	301+75.00	495.86	
496.59		-0.02	-0.0020	12.00	496.61		0.19	0.0160	12.00	302+00.00	496.42	
496.72		0.00	0.0000	12.00	496.72		0.19	0.0160	12.00	302+04.74	496.53	FLAT
497.35		0.10	0.0084	12.00	497.24		0.19	0.0160	12.00	302+25.00	497.05	
497.94		0.19	0.0160	12.00	497.75		0.19	0.0160	12.00	302+43.14	497.56	RC
498.18	200:1	0.21	0.0174	12.00	497.97		0.21	0.0174	12.00	302+50.00	497.77	
499.10		0.27	0.0226	12.00	498.83		0.27	0.0226	12.00	302+75.00	498.56	
500.09		0.33	0.0278	12.00	499.76		0.33	0.0278	12.00	303+00.00	499.42	
500.53		0.36	0.0300	12.00	500.17	200:1	0.36	0.0300	12.00	303+10.34	499.81	PC
501.16		0.40	0.0331	12.00	500.77		0.40	0.0331	12.00	303+25.00	500.37	
502.31		0.46	0.0383	12.00	501.85		0.46	0.0383	12.00	303+50.00	501.39	
503.54		0.52	0.0435	12.00	503.02		0.52	0.0435	12.00	303+75.00	502.50	
503.91		0.54	0.0450	12.00	503.37		0.54	0.0450	12.00	303+82.34	502.83	FS
504.76		0.54	0.0450	12.00	504.22		0.54	0.0450	12.00	304+00.00	503.68	
505.97		0.54	0.0450	12.00	505.43		0.54	0.0450	12.00	304+25.00	504.89	
507.19		0.54	0.0450	12.00	506.65		0.54	0.0450	12.00	304+50.00	506.11	
508.41		0.54	0.0450	12.00	507.87		0.54	0.0450	12.00	304+75.00	507.33	
509.63		0.54	0.0450	12.00	509.09		0.54	0.0450	12.00	305+00.00	508.55	
510.85		0.54	0.0450	12.00	510.31		0.54	0.0450	12.00	305+25.00	509.77	
511.08		0.54	0.0450	12.00	510.54		0.54	0.0450	12.00	305+29.90	510.00	FS
511.96		0.49	0.0408	12.00	511.47		0.49	0.0408	12.00	305+50.00	510.98	
513.06		0.43	0.0356	12.00	512.63		0.43	0.0356	12.00	305+75.00	512.20	
514.15		0.36	0.0304	12.00	513.78	200:1	0.36	0.0304	12.00	306+00.00	513.42	
514.23		0.36	0.0300	12.00	513.87		0.36	0.0300	12.00	306+01.90	513.51	PT
515.24		0.30	0.0252	12.00	514.94		0.30	0.0252	12.00	306+25.00	514.64	
516.34	200:1	0.24	0.0200	12.00	516.10		0.24	0.0200	12.00	306+50.00	515.86	
517.17		0.19	0.0160	12.00	516.98		0.19	0.0160	12.00	306+69.10	516.79	RC
517.43		0.16	0.0135	12.00	517.27		0.19	0.0160	12.00	306+75.00	517.08	
518.49		0.04	0.0031	12.00	518.46		0.19	0.0160	12.00	307+00.00	518.26	
518.80		0.00	0.0000	12.00	518.80		0.19	0.0160	12.00	307+07.50	518.61	FLAT
519.50		-0.09	-0.0073	12.00	519.59		0.19	0.0160	12.00	307+25.00	519.40	
520.30		-0.19	-0.0160	12.00	520.49		0.19	0.0160	12.00	307+45.90	520.30	NC

See comment on Sheet #3 regarding use of upper range design speed.

SUPERELEVATION TABLE - RAMP D - CURVE NO D2

PI STA 321+95.12 | Dc = 01° 45' 00"

I'm calculating a different half flat station: 318+67.89 - 2/3(200 x 0.032 x 12) = 318+16.69. This will revise the NC and RC stations.

LEFT SIDE										BASELINE CONTROL		
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	REMARKS
533.08		-0.19	-0.0160	12.00	533.27		0.19	0.0160	12.00	317+65.49	533.08	NC
532.67		-0.14	-0.0120	12.00	532.81		0.19	0.0160	12.00	317+75.00	532.62	
531.59		-0.02	-0.0016	12.00	531.61		0.19	0.0160	12.00	318+00.00	531.42	
531.42		0.00	0.0000	12.00	531.42		0.19	0.0160	12.00	318+03.89	531.23	FLAT
530.51		0.11	0.0088	12.00	530.40		0.19	0.0160	12.00	318+25.00	530.21	
529.76	200:1	0.19	0.0160	12.00	529.57		0.19	0.0160	12.00	318+42.29	529.38	RC
529.43		0.21	0.0176	12.00	529.22		0.21	0.0176	12.00	318+50.00	529.00	
528.65		0.26	0.0213	12.00	528.40		0.26	0.0213	12.00	318+67.89	528.14	PC
528.34		0.27	0.0228	12.00	528.07	200:1	0.27	0.0228	12.00	318+75.00	527.80	
527.26		0.34	0.0280	12.00	526.93		0.34	0.0280	12.00	319+00.00	526.59	
526.44		0.38	0.0320	12.00	526.05		0.38	0.0320	12.00	319+19.09	525.67	FS
526.15		0.38	0.0320	12.00	525.77		0.38	0.0320	12.00	319+25.00	525.39	
524.95		0.38	0.0320	12.00	524.56		0.38	0.0320	12.00	319+50.00	524.18	
523.74		0.38	0.0320	12.00	523.36		0.38	0.0320	12.00	319+75.00	522.97	
522.53		0.38	0.0320	12.00	522.15		0.38	0.0320	12.00	320+00.00	521.77	
521.33		0.38	0.0320	12.00	520.94		0.38	0.0320	12.00	320+25.00	520.56	
520.12		0.38	0.0320	12.00	519.74		0.38	0.0320	12.00	320+50.00	519.35	
518.92		0.38	0.0320	12.00	518.53		0.38	0.0320	12.00	320+75.00	518.15	
517.77		0.38	0.0320	12.00	517.38		0.38	0.0320	12.00	321+00.00	517.00	
516.73		0.38	0.0320	11.93	516.35		0.38	0.0320	12.00	321+25.00	515.97	
515.81		0.37	0.0320	11.59	515.44		0.38	0.0320	12.00	321+50.00	515.05	
515.00		0.36	0.0320	11.26	514.64		0.38	0.0320	12.00	321+75.00	514.26	
514.31		0.35	0.0320	10.93	513.96		0.38	0.0320	12.00	322+00.00	513.58	
513.73		0.34	0.0320	10.59	513.40		0.38	0.0320	12.00	322+25.00	513.01	
513.28		0.33	0.0320	10.26	512.95		0.38	0.0320	12.00	322+50.00	512.56	
512.93		0.32	0.0320	9.93	512.62		0.38	0.0320	12.00	322+75.00	512.23	
512.39		0.31	0.0320	9.60	512.08		0.38	0.0320	12.00	323+00.00	511.70	
512.18		0.30	0.0320	9.26	511.88		0.38	0.0320	12.00	323+25.00	511.50	
512.02		0.29	0.0320	8.93	511.73		0.38	0.0320	12.00	323+50.00	511.35	
511.92		0.28	0.0320	8.60	511.64		0.38	0.0320	12.00	323+75.00	511.26	
512.07		0.26	0.0320	8.26	511.80		0.38	0.0320	12.00	324+00.00	511.42	
512.26		0.25	0.0320	7.93	512.00		0.38	0.0320	12.00	324+25.00	511.62	
512.50		0.24	0.0320	7.60	512.25		0.38	0.0320	12.00	324+50.00	511.87	
512.79		0.23	0.0320	7.27	512.55		0.38	0.0320	12.00	324+75.00	512.17	
513.12		0.22	0.0320	6.93	512.89		0.38	0.0320	12.00	325+00.00	512.51	
513.42		0.21	0.0320	6.66	513.20		0.38	0.0320	12.00	325+20.18	512.82	CS/FS
513.48		0.21	0.0317	6.60	513.27		0.38	0.0317	12.00	325+25.00	512.89	
513.81		0.19	0.0302	6.27	513.62		0.36	0.0302	12.00	325+50.00	513.26	
514.18		0.17	0.0287	5.93	514.01		0.34	0.0287	12.00	325+75.00	513.67	
514.61	694:1	0.15	0.0272	5.60	514.46	694:1	0.33	0.0272	12.00	326+00.00	514.13	
515.08		0.14	0.0257	5.27	514.95		0.31	0.0257	12.00	326+25.00	514.64	
515.61		0.12	0.0242	4.93	515.49		0.29	0.0242	12.00	326+50.00	515.20	
516.19		0.10	0.0227	4.60	516.08		0.27	0.0227	12.00	326+75.00	515.81	
516.82		0.09	0.0212	4.27	516.72		0.25	0.0212	12.00	327+00.00	516.47	
517.35		0.08	0.0200	4.00	517.27		0.24	0.0200	12.00	327+20.18	517.03	ST/NC

SUPERELEVATION TABLE
RAMP D - CURVE NO 1 & NO 2

DESIGN AGENCY: EMH&T

DESIGNER: SJB

REVIEWER: MJR 06/21/24

PROJECT ID: 114161

SHEET P.307 | TOTAL 463

HAM-75-1.95

MODEL: RAMP D - CURVE 1-2 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:19:08 AM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GE005.dgn

SUPERELEVATION TABLE - RAMP G - CURVE NO G2

PI STA 506+18.38 | Dc = 03° 00' 00"

LEFT SIDE					BASELINE CONTROL		RIGHT SIDE					
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	REMARKS
					504+48.18	493.98	16.00	-0.0160	-0.26		493.72	NC
					504+50.00	494.19	16.00	-0.0153	-0.24		493.95	
					504+89.31	494.19	16.00	0.0000	0.00		494.19	FLAT
					505+00.00	494.26	16.00	0.0041	0.07	161:1	494.33	
					505+25.00	494.47	16.00	0.0138	0.22		494.69	
					505+37.82	494.60	16.00	0.0188	0.30		494.90	PC
					505+50.00	494.74	16.00	0.0235	0.38		495.12	
					505+61.52	494.88	16.00	0.0280	0.45		495.33	FS
					505+75.00	495.06	16.00	0.0280	0.45		495.51	
					506+00.00	495.44	16.00	0.0280	0.45		495.89	
					506+25.00	495.88	16.00	0.0280	0.45		496.33	
					506+50.00	496.37	16.00	0.0280	0.45		496.82	
					506+74.89	496.92	16.00	0.0280	0.45		497.37	FS
					506+75.00	496.92	16.00	0.0280	0.45		497.37	
					506+98.85	497.50	16.00	0.0187	0.30	161:1	497.80	PT
					507+00.00	497.53	16.00	0.0183	0.29		497.82	
					507+05.81	497.68	16.00	0.0160	0.26		497.94	NC

I'm calculating 504+89.39.

SUPERELEVATION TABLE - RAMP G - CURVE NO G3

PI STA 511+88.54 | Dc = 02° 30' 00"

LEFT SIDE					BASELINE CONTROL		RIGHT SIDE					
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	REMARKS
					507+50.17	498.91	16.00	0.0160	0.26		499.17	NC
					507+75.00	499.68	16.00	0.0082	0.13		499.81	
					508+00.00	500.51	16.00	0.0004	0.01		500.52	
					508+01.37	500.56	16.00	0.0000	0.00		500.56	FLAT
					508+25.00	501.40	16.00	-0.0074	-0.12		501.28	
					508+50.00	502.35	16.00	-0.0152	-0.24		502.10	
					508+52.57	502.45	16.00	-0.0160	-0.26	200:1	502.19	NC
					508+75.00	503.35	16.00	-0.0230	-0.37		502.98	
					508+86.81	503.84	16.00	-0.0267	-0.43		503.41	PC
					509+00.00	504.38	16.00	-0.0308	-0.49		503.89	
					509+25.00	505.41	16.00	-0.0386	-0.62		504.79	
					509+29.37	505.59	16.00	-0.0400	-0.64		504.95	FS
					509+50.00	506.44	16.00	-0.0400	-0.64		505.80	
					509+75.00	507.47	16.00	-0.0400	-0.64		506.83	
					510+00.00	508.50	16.00	-0.0400	-0.64		507.86	
					510+25.00	509.53	16.00	-0.0400	-0.64		508.89	
					510+50.00	510.56	16.00	-0.0400	-0.64		509.92	
					510+75.00	511.59	16.00	-0.0400	-0.64		510.95	
					511+00.00	512.62	16.00	-0.0400	-0.64		511.98	
					511+25.00	513.65	16.00	-0.0400	-0.64		513.01	
					511+50.00	514.68	16.00	-0.0400	-0.64		514.04	
					511+75.00	515.71	16.00	-0.0400	-0.64		515.07	
					512+00.00	516.74	16.00	-0.0400	-0.64		516.10	
					512+25.00	517.75	16.00	-0.0400	-0.64		517.11	
					512+50.00	518.71	16.00	-0.0400	-0.64		518.07	
					512+75.00	519.62	16.00	-0.0400	-0.64		518.98	
					513+00.00	520.49	16.00	-0.0400	-0.64		519.85	
					513+25.00	521.31	16.00	-0.0400	-0.64		520.67	
					513+50.00	522.09	16.00	-0.0400	-0.64		521.45	
					513+75.00	522.82	16.00	-0.0400	-0.64		522.18	
					514+00.00	523.50	16.00	-0.0400	-0.64		522.86	
					514+25.00	524.14	16.00	-0.0400	-0.64		523.50	
					514+50.00	524.73	16.00	-0.0400	-0.64		524.09	
					514+75.00	525.28	16.00	-0.0400	-0.64		524.64	
					514+78.81	525.36	16.00	-0.0400	-0.64		524.72	FS
					514+86.81	525.52	16.00	-0.0425	-0.68	200:1	524.84	PCC
					514+94.81	525.68	16.00	-0.0450	-0.72		524.96	FS

SUPERELEVATION TABLE
RAMP G - CURVE NO 2 & NO 3

DESIGN AGENCY
EMH&T

DESIGNER SJB
REVIEWER MJR 06/21/24
PROJECT ID 114161
SHEET P.308 TOTAL 463

HAM-75-1.95

MODEL: RAMP G - CURVE 2-3 PAPERSIZE: 34x22 (in.) DATE: 6/21/2024 TIME: 9:28:57 AM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GE006.dgn

SUPERELEVATION TABLE - RAMP G - CURVE NO G4

PI STA 517+86.50 | Dc = 03° 00' 00"

LEFT SIDE					BASELINE CONTROL		RIGHT SIDE					
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	REMARKS
					520+00.00	526.42	16.00	-0.0450	-0.72		525.70	
					520+25.00	526.16	16.00	-0.0450	-0.72		525.44	
					520+33.34	526.07	16.00	-0.0450	-0.72		525.35	FS
					520+50.00	525.90	16.00	-0.0398	-0.64		525.26	
					520+75.00	525.63	16.00	-0.0320	-0.51		525.12	
					520+81.34	525.57	16.00	-0.0300	-0.48	200:1	525.09	PT
					521+00.00	525.37	16.00	-0.0242	-0.39		524.98	
					521+25.00	525.11	16.00	-0.0164	-0.26		524.85	
					521+26.14	525.10	16.00	-0.0160	-0.26		524.84	RC

SUPERELEVATION TABLE - RAMP G - CURVE NO G5

PI STA 526+52.47 | Dc = 01° 30' 00"

LEFT SIDE					BASELINE CONTROL		RIGHT SIDE					
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	REMARKS
					526+36.47	521.86	16.00	-0.0160	-0.26		521.60	NC
					526+50.00	521.79	16.00	-0.0202	-0.32		521.47	
					526+74.87	521.67	16.00	-0.0280	-0.45	200:1	521.22	PC
					527+00.00	521.54	16.00	-0.0359	-0.57		520.97	
					527+19.67	521.44	16.00	-0.0420	-0.67		520.77	FS
					527+25.00	521.42	16.00	-0.0420	-0.67		520.75	
					527+50.00	521.29	16.00	-0.0420	-0.67		520.62	
					527+75.00	521.17	16.00	-0.0420	-0.67		520.50	
					528+00.00	521.04	16.00	-0.0420	-0.67		520.37	
					528+25.00	520.92	16.00	-0.0420	-0.67		520.25	
					528+27.19	520.91	16.00	-0.0420	-0.67		520.24	FS
					528+50.00	520.79	16.00	-0.0349	-0.56		520.23	
					528+71.99	520.68	16.00	-0.0280	-0.45	200:1	520.23	PT
					528+75.00	520.67	16.00	-0.0271	-0.43		520.24	
					529+00.00	520.54	16.00	-0.0192	-0.31		520.23	
					529+10.39	520.49	16.00	-0.0160	-0.26		520.23	NC

SUPERELEVATION TABLE
RAMP G - CURVE NO 4 & NO 5

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.309 | TOTAL 463

HAM-75-1.95

MODEL: RAMP G - CURVE 4-5 PAPERSIZE: 34x22 (in.) DATE: 6/21/2024 TIME: 9:28:58 AM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GE006.dgn

HORIZONTAL
SCALE IN FEET
0 10 20 40

RAMP TERMINAL DETAILS
IR 75 AND RAMP A

℄ CONST IR 75

116 117 118 119 120 121

IR 75 (NB)

STA. 118+02.96 IR 75 =
STA. 502+46.05 RAMP A

STA. 121+50.79 IR 75 =
STA. 505+82.90 RAMP A

500 501 502 503 504 505 506

RAMP A

2.0'
12.0'
10.0'
16.0'
10.0'
23.0'

+47.51
BEGIN SHOULDER TAPER

+72.65
END SHOULDER TAPER

Per L&D Section 301.2.3.2 the shoulder taper should be 25:1 which would extend the taper to Sta. 502+97.51.

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.310 | TOTAL 463

HAM-75-1.95

MODEL: Terminal Details - Sheet1 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:19:31 AM USER: sbeal
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HORIZONTAL
SCALE IN FEET
0 10 20 40

RAMP TERMINAL DETAILS
IR 75 AND RAMP B

DESIGN AGENCY
EMH&T

DESIGNER
SJB

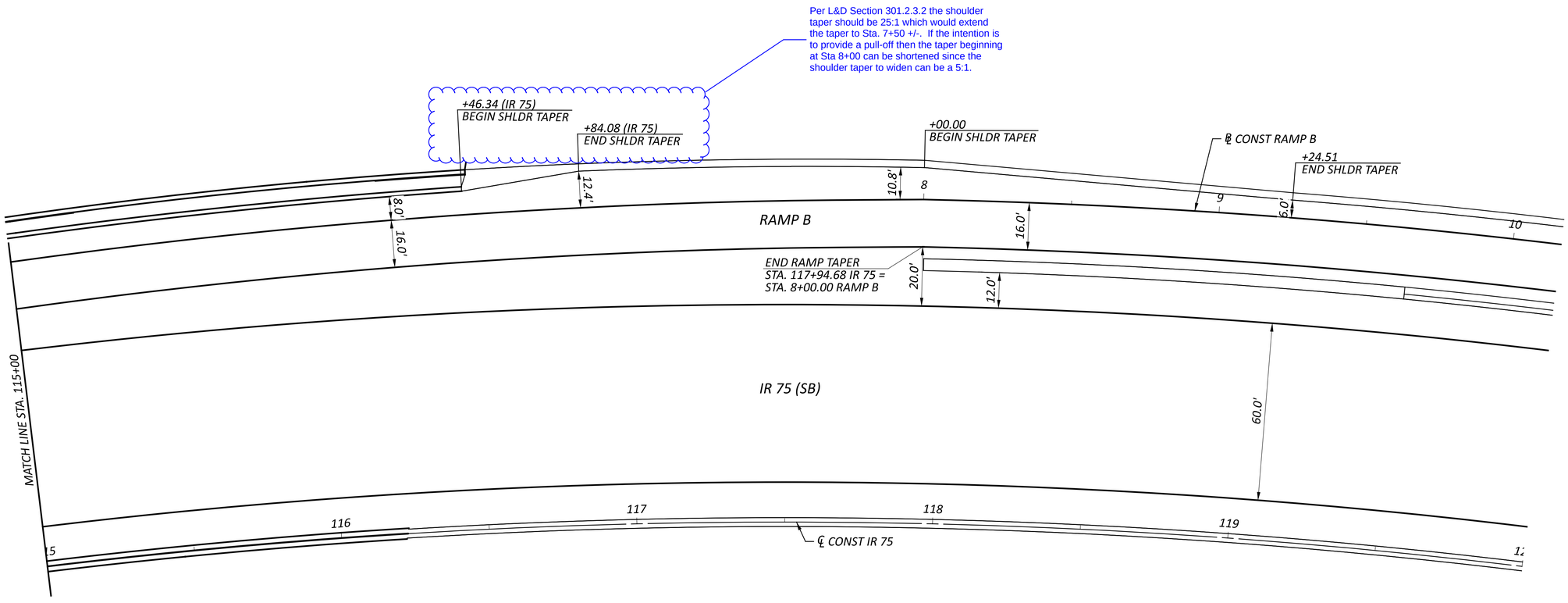
REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.311 | TOTAL 463

HAM-75-1.95

MODEL: Terminal Detail - Sheet1 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:19:45 AM USER: sbeal
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HORIZONTAL SCALE IN FEET
0 10 20 40

RAMP TERMINAL DETAILS
IR 75 AND RAMP B

DESIGN AGENCY
EMHT

DESIGNER
SJB

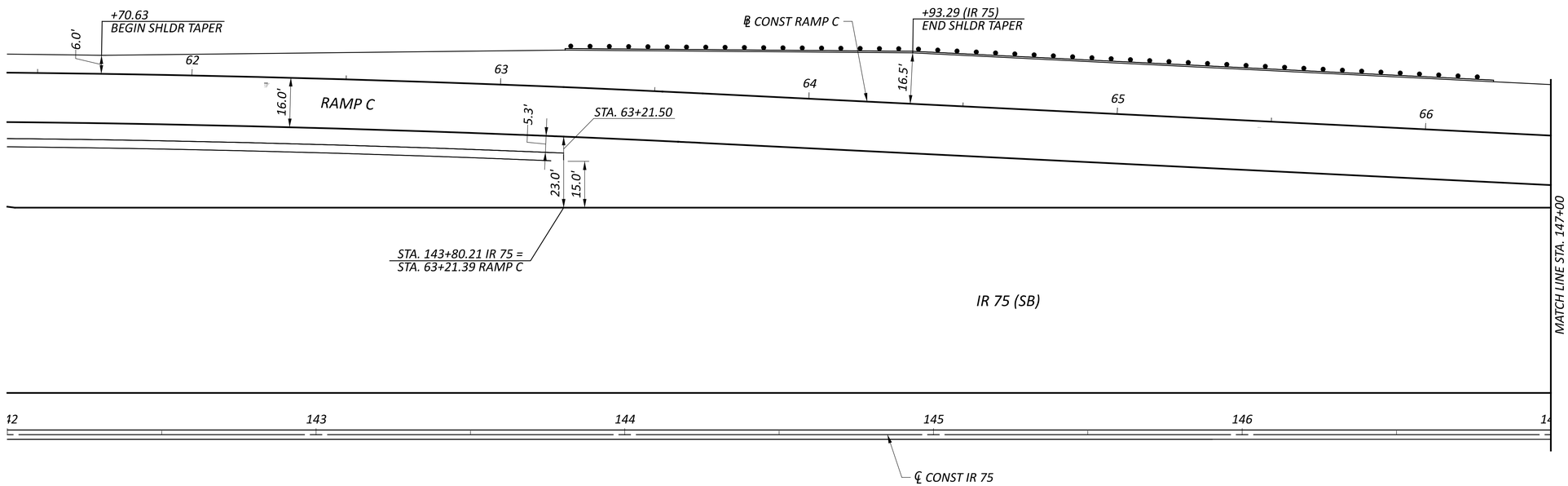
REVIEWER
MJR 06/21/24

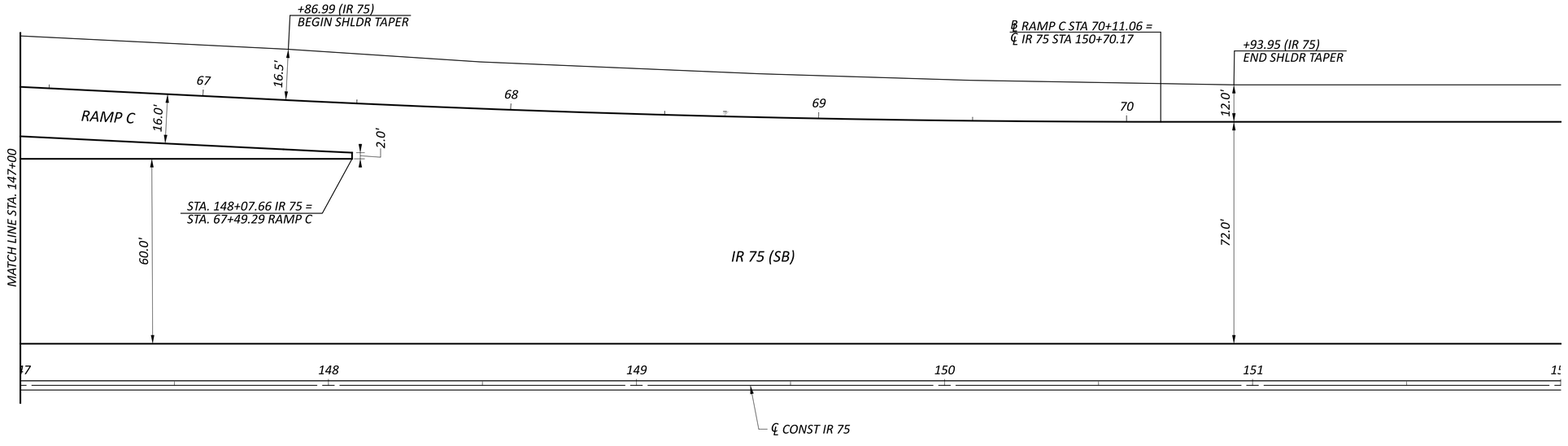
PROJECT ID
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SHEET P.312 | TOTAL 463

HAM-75-1.95

MODEL: Terminal Detail - Sheet2 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:19:46 AM USER: sbeal
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HORIZONTAL SCALE IN FEET
0 10 20 40

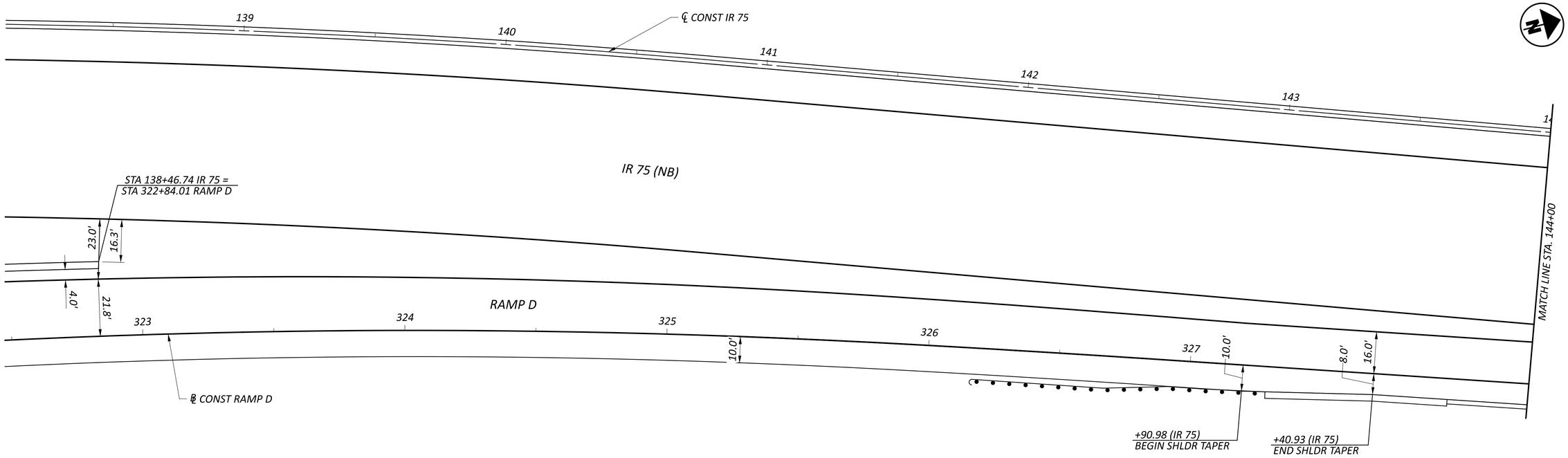
RAMP TERMINAL DETAILS
IR 75 AND RAMP C

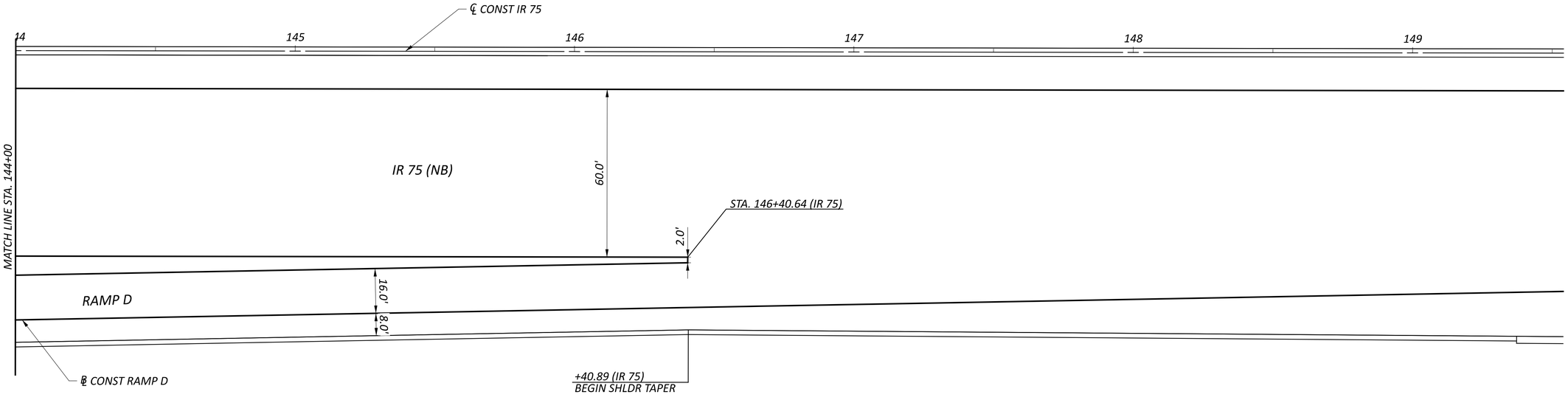
DESIGN AGENCY
EMH&T

DESIGNER SJB
REVIEWER MJR 06/21/24
PROJECT ID 114161
SHEET P.313 TOTAL 463

HAM-75-1.95

MODEL: Terminal Details - Sheet1 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:19:59 AM USER: sbeal
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HORIZONTAL SCALE IN FEET
0 10 20 40

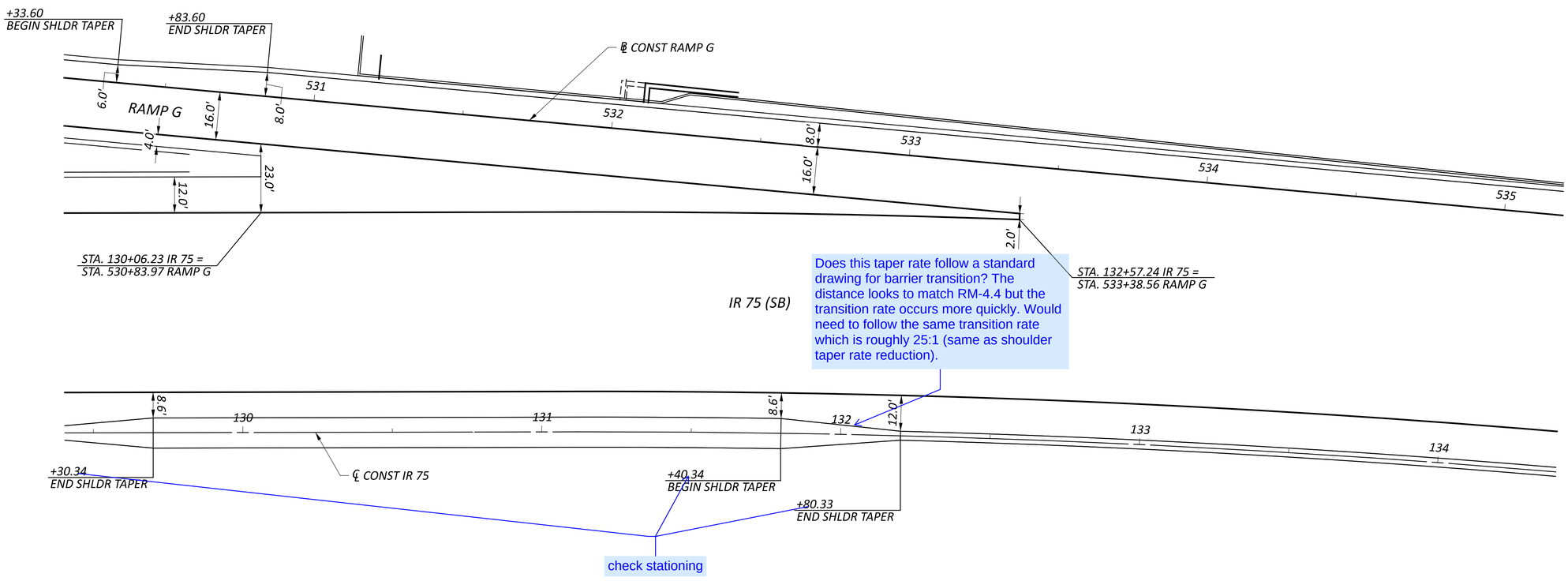
RAMP TERMINAL DETAILS IR 75 AND RAMP D

DESIGN AGENCY
EMH&T

DESIGNER SJB
REVIEWER MJR 06/21/24
PROJECT ID 114161
SHEET P.314 TOTAL 463

HAM-75-1.95

MODEL: Terminal Details - Sheet1 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:20:13 AM USER: sbeal
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Does this taper rate follow a standard drawing for barrier transition? The distance looks to match RM-4.4 but the transition rate occurs more quickly. Would need to follow the same transition rate which is roughly 25:1 (same as shoulder taper rate reduction).

check stationing

HORIZONTAL
SCALE IN FEET
0 10 20 40

RAMP TERMINAL DETAILS
IR 75 AND RAMP G

DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.315 TOTAL 463

HAM-75-1.95

MODEL: Terminal Details - Sheet1 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:20:25 AM USER: sbeal
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INTERSECTION DETAILS
WESTERN HILLS VIADUCT AND RAMPS A, B, C & D

HORIZONTAL SCALE IN FEET
0 10 20 40

STA 237+31.75, 176.69' LT
STA. 51+75.98, 114.54' LT
Δ = 32°26'07"
R = 150.00'
L = 84.92'

STA 237+87.77, 93.86' LT
STA 50+93.50, 58.00' LT
Δ = 55°34'19"
R = 50.00'
L = 48.50'

℄ CONST RAMP C

RAMP C

IR 75 (SB)

IR 75 (NB)

℄ CONST IR 75

RAMP D

+93.86, 24.00' LT
END LANE TAPER

+12.56, 31.44' LT
BEGIN LANE TAPER

STA 240+56.13, 85.70' LT
STA 316+17.11, 81.73' LT
Δ = 84°33'37"
R = 50.00'
L = 73.79'

+80.88, 28.00' LT
BEGIN LANE TAPER

+61.06, 35.90' LT
END LANE TAPER

℄ CONST WESTERN HILLS VIADUCT

℄ CONST CONNECTOR

℄ CONST RAMP D

WESTERN HILLS VIADUCT STA = 238+45.19
RAMP C STA 50+00.00

WESTERN HILL VIADUCT STA = 238+40.37
RAMP B STA 21+12.99

WESTERN HILLS VIADUCT STA = 241+45.90
RAMP D STA 315+23.27

RAMP D STA = 315+11.22
CONNECTOR STA 10+00.00

WESTERN HILLS VIADUCT

CONNECTOR

℄ CONST CONNECTOR

CROWN OF PAVEMENT
℄ RAMP D

℄ CONST RAMP B

℄ CONST RAMP G

℄ CONST RAMP B̄

STA 237+82.35, 103.11' RT
STA 20+30.04, 84.37' LT
Δ = 47°21'56"
R = 75.00'
L = 62.00'

STA 237+06.87, 168.71' RT
STA 19+85.36, 175.00' LT
Δ = 25°44'08"
R = 175.00'
L = 78.61'

STA 240+92.15, 43.00' RT
STA 314+85.57, 57.59' LT
Δ = 45°50'12"
R = 15.00'
L = 12.00'

STA 240+70.63, 63.90' RT
STA 314+66.81, 81.00' LT
Δ = 38°42'59"
R = 45.00'
L = 30.41'

84.6° 95.5° 95.4° 84.5° 90.4° 89.6° 106.1° 73.9°

10.0' TYP.

5.0' R

12.0'

HAM-75-1.95

MODEL: WHV INT DETAIL - Sheet1 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:20:41 AM USER: sbeal
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DESIGN AGENCY
EMH&T

DESIGNER
SJB

REVIEWER
MJR 06/21/24

PROJECT ID
114161

SHEET P.316 TOTAL 463

INTERSECTION DETAILS
BANK ST AND SPRING GROVE AVE/DALTON AVE

HORIZONTAL SCALE IN FEET
0 5 10 20

STA 804+17.86, 65.83' LT
1+58.61, 68.98' RT
Δ = 79°45'19"
R = 30.00'
L = 41.76'

STA 804+14.62
OFF 44.15' LT

STA 1+31.93
OFF 29.90' LT

STA 805+59.57, 85.02' LT
STA 1+36.72, 79.94' LT
Δ = 69°22'06"
R = 50.00'
L = 60.54'

STA 1+53.00
OFF 5.00' RT

STA 1+53.00
OFF 7.00' LT

STA 1+84.00
OFF 5.00' RT

STA 1+84.00
OFF 7.00' LT

℄ CONST SPRING GROVE STA 804+79.06 =
℄ CONST BANK STA 2+22.27

℄ CONST SPRING GROVE AVE

℄ CONST BANK ST

STA 803+88.42
OFF 32.41' RT

STA 803+89.39, 74.40' RT
STA 3+01.23, 69.75' RT
Δ = 106°09'33"
R = 40.00'
L = 74.11'

STA 3+01.23
OFF 27.75' RT

STA 805+06.90
OFF 23.91' RT

STA 805+60.71, 90.00' RT
STA 3+11.73, 82.25' LT
Δ = 89°37'05"
R = 50.00'
L = 78.21'

STA 506+26.02
OFF 50.50' RT

STA 806+36.02
OFF 24.77' RT

STA 806+36.02
OFF 48.36' RT

10.0' TYP.

8.0'

7.9'

LEGEND

- PAVEMENT PLANING AND OVERLAY

NOTE TO REVIEWER:

- CURB RAMP DETAILS TO BE ADDED IN STAGE 2.

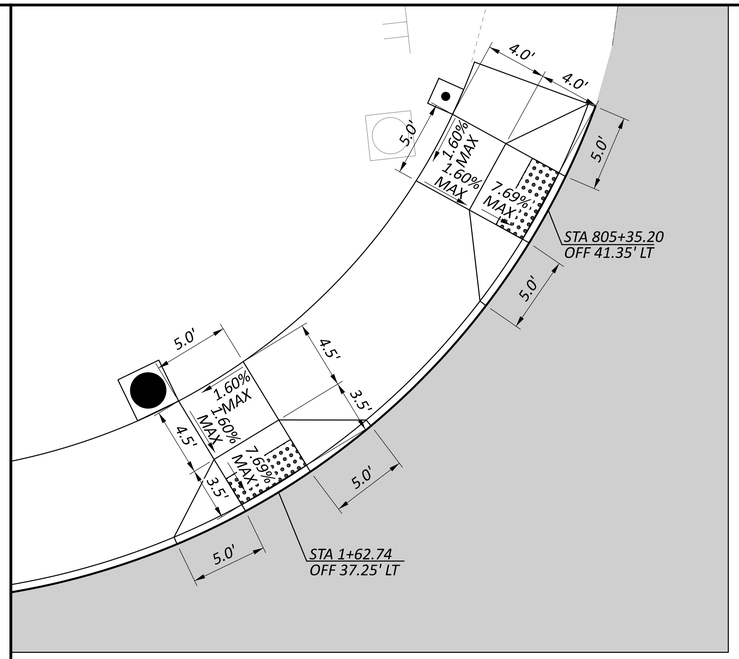
- ALL PROPOSED CURB ELEVATIONS ARE BOTTOM OF CURB UNLESS OTHERWISE NOTED

DESIGN AGENCY
EMH&T

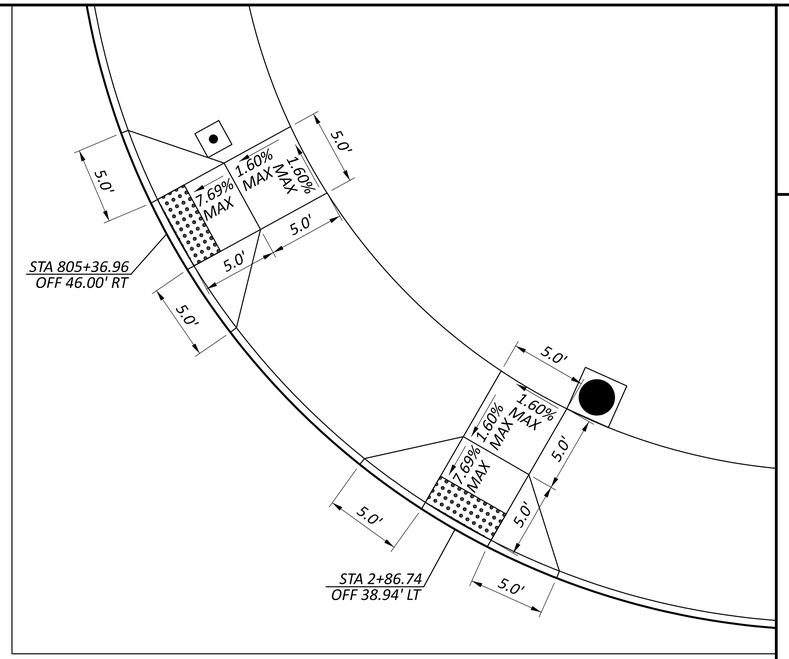
DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.317
TOTAL	463

HAM-75-1.95

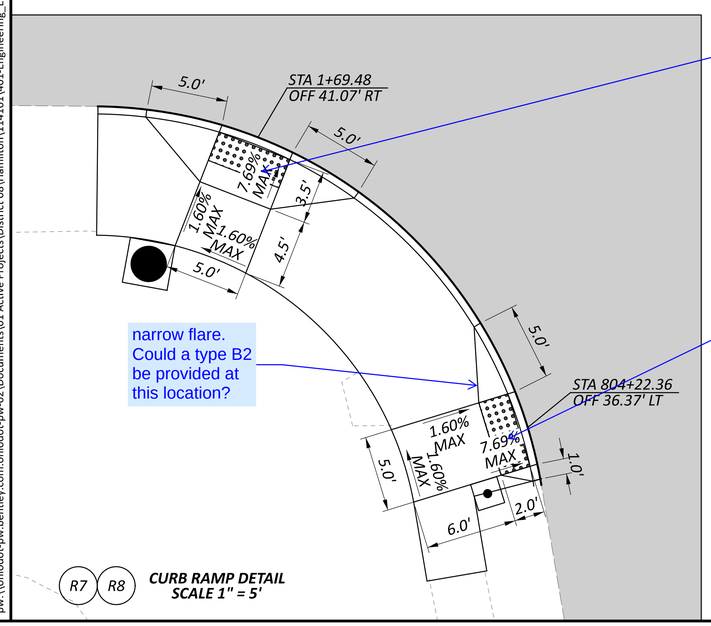
MODEL: Bank and Spring Grove - Sheet1 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:21:00 AM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GI007.dgn



R1 R2 **CURB RAMP DETAIL**
SCALE 1" = 5'



R3 R4 **CURB RAMP DETAIL**
SCALE 1" = 5'



R7 R8 **CURB RAMP DETAIL**
SCALE 1" = 5'

Consider the "Z" angle value for the curb ramps per the ODOT Multimodal Design Guide.

I understand details to be added at Stage 2, but be sure to give specific slopes and elevations at each ramp.

narrow flare. Could a type B2 be provided at this location?

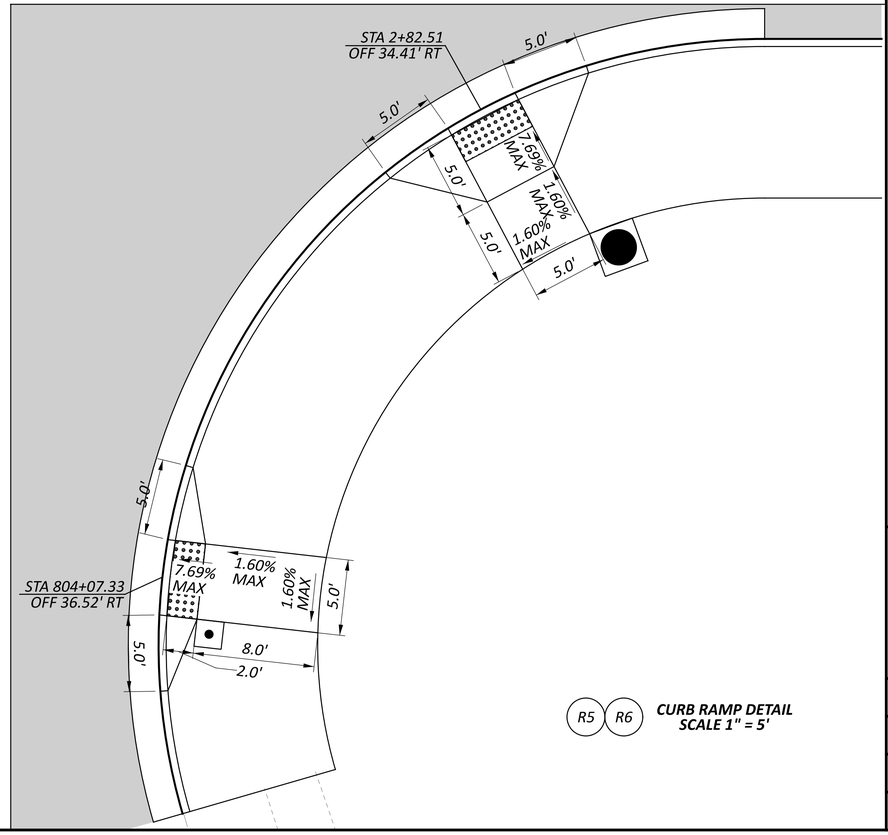
LEGEND

- *PAVEMENT PLANING AND OVERLAY*

NOTE TO REVIEWER:

- CURB RAMP DETAILS TO BE ADDED IN STAGE 2.

- ALL PROPOSED CURB ELEVATIONS ARE BOTTOM OF CURB UNLESS OTHERWISE NOTED



R5 R6 **CURB RAMP DETAIL**
SCALE 1" = 5'

HORIZONTAL SCALE IN FEET
0 2.5 5 10

INTERSECTION DETAILS
BANK ST AND SPRING GROVE AVE/DALTON AVE

DESIGN AGENCY
EMHT

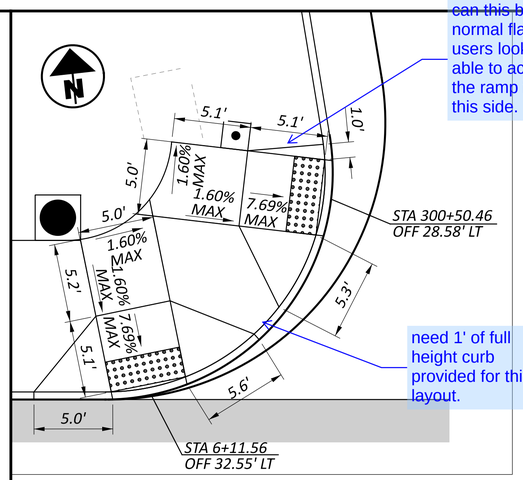
DESIGNER SJB
REVIEWER MJR 06/21/24
PROJECT ID 114161
SHEET P.318 TOTAL 463

HAM-75-1.95

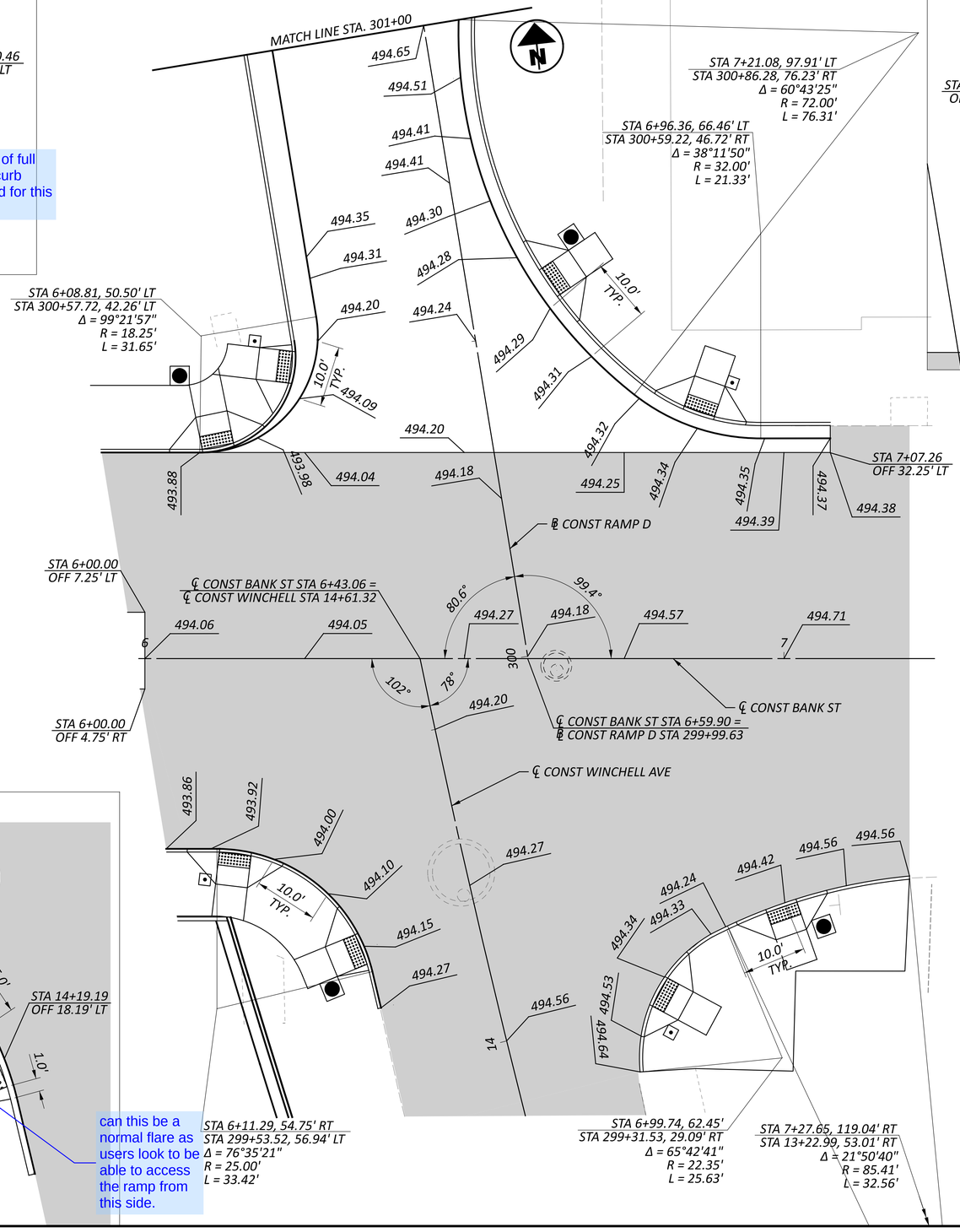
MODEL: Bank and Spring Grove - Sheet2 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:21:03 AM USER: sbeal
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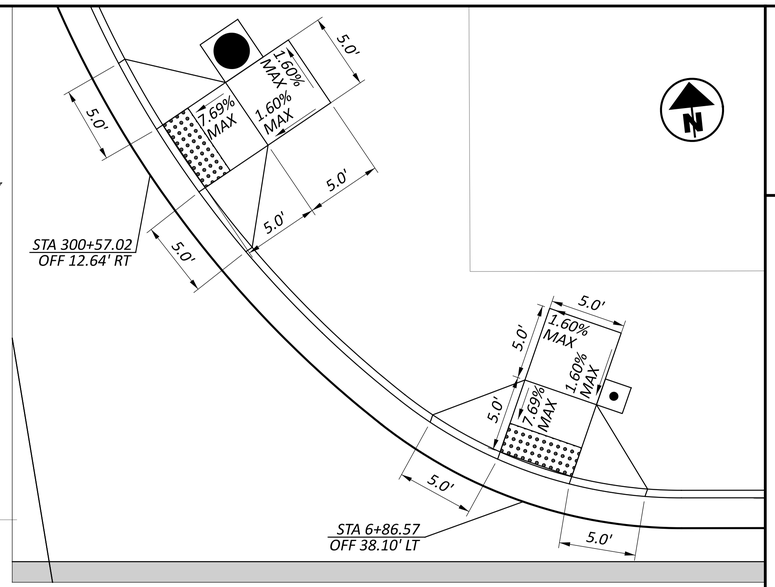
can this be a normal flare as users look to be able to access the ramp from this side.

need 1' of full height curb provided for this layout.

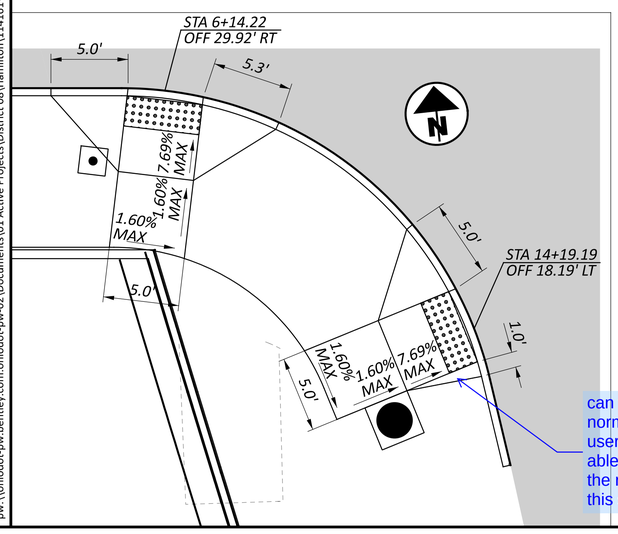


R1 R2 **CURB RAMP DETAIL**
SCALE 1" = 5'



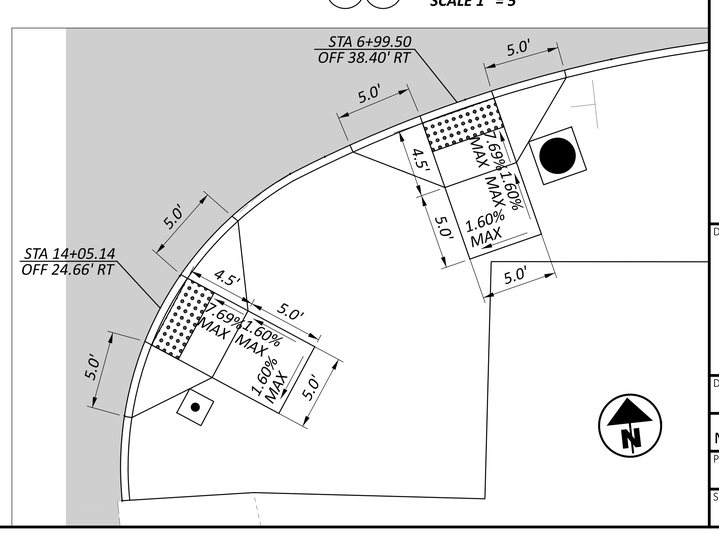


R3 R4 **CURB RAMP DETAIL**
SCALE 1" = 5'



R7 R8 **CURB RAMP DETAIL**
SCALE 1" = 5'

can this be a normal flare as users look to be able to access the ramp from this side.



R5 R6 **CURB RAMP DETAIL**
SCALE 1" = 5'

LEGEND

- *PAVEMENT PLANING AND OVERLAY*

NOTE TO REVIEWER:

- CURB RAMP DETAILS TO BE ADDED IN STAGE 2.

- ALL PROPOSED CURB ELEVATIONS ARE BOTTOM OF CURB UNLESS OTHERWISE NOTED

HORIZONTAL SCALE IN FEET
0 5 10 20

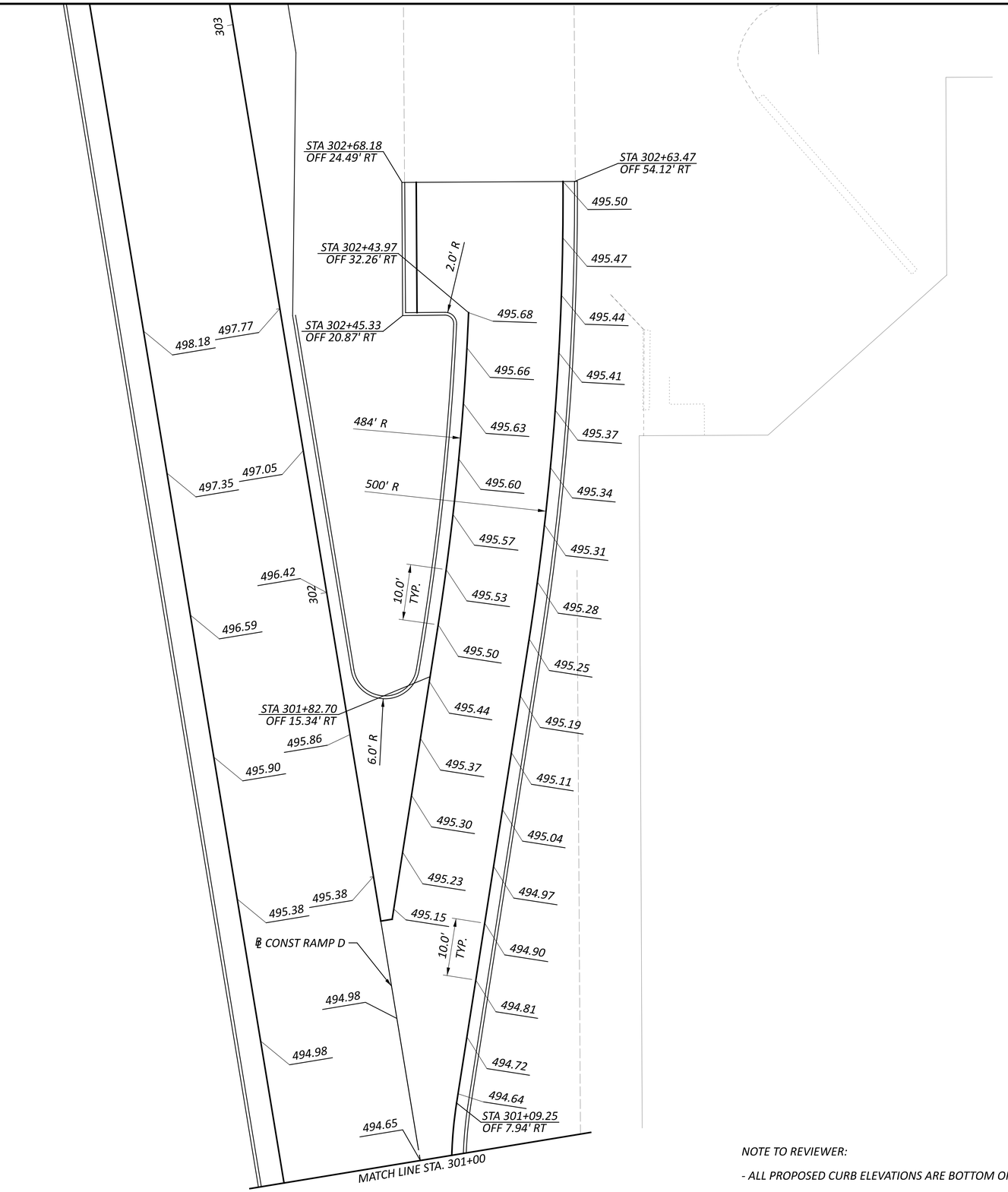
INTERSECTION DETAILS
BANK ST AND WINCHELL AVE/RAMP D

DESIGN AGENCY
EMH&T

DESIGNER	SJB
REVIEWER	MJR 06/21/24
PROJECT ID	114161
SHEET	P.319
TOTAL	463

HAM-75-1.95

MODEL: Bank and Winchell - Sheet1 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:21:05 AM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GI007.dgn



HORIZONTAL SCALE IN FEET
0 5 10 20

INTERSECTION DETAILS WINCHELL AVE AND RAMP D

NOTE TO REVIEWER:

- ALL PROPOSED CURB ELEVATIONS ARE BOTTOM OF CURB UNLESS OTHERWISE NOTED

DESIGN AGENCY
EMH&T

DESIGNER
SJB

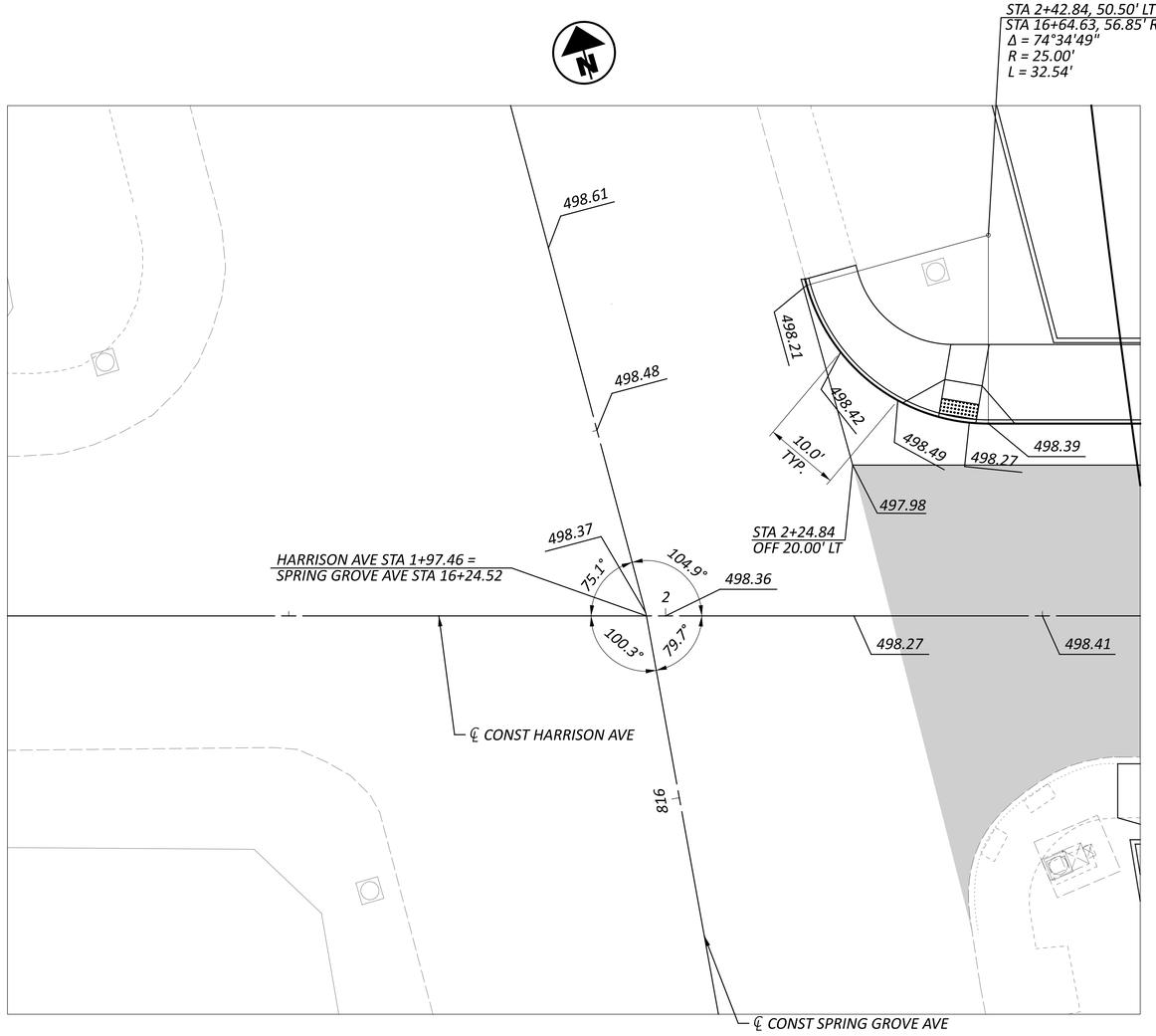
REVIEWER
MJR 06/21/24

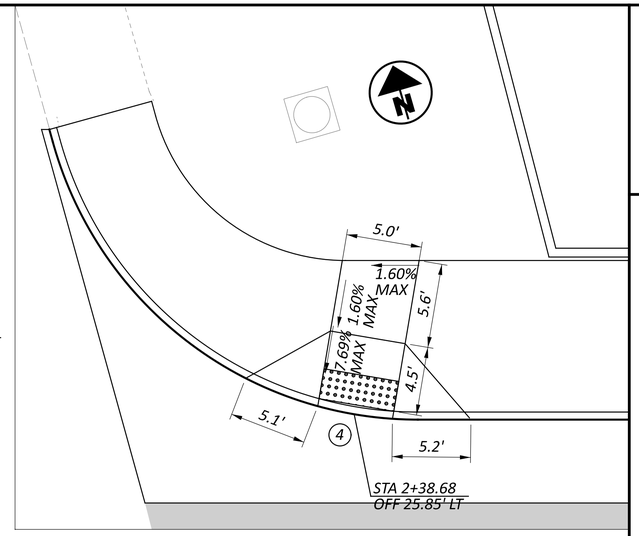
PROJECT ID
114161

SHEET P.320 | TOTAL 463

HAM-75-1.95

MODEL: Winchell and Ramp D - Sheet1 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:21:08 AM USER: sbeal
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R4 **CURB RAMP DETAIL**
SCALE 1" = 5'

LEGEND

- *PAVEMENT PLANING AND OVERLAY*

NOTE TO REVIEWER:
- CURB RAMP DETAILS TO BE ADDED IN STAGE 2

- ALL PROPOSED CURB ELEVATIONS ARE BOTTOM OF CURB UNLESS OTHERWISE NOTED

HORIZONTAL SCALE IN FEET
0 5 10 20

INTERSECTION DETAILS
HARRISON AVE AND SPRING GROVE AVE

DESIGN AGENCY
EMH&T

DESIGNER
SJB

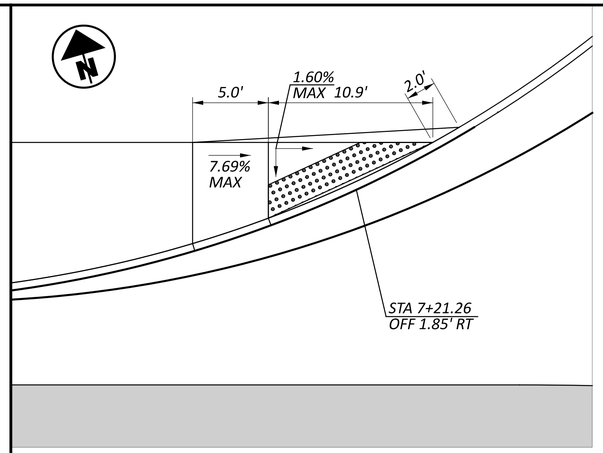
REVIEWER
MJR 06/21/24

PROJECT ID
114161

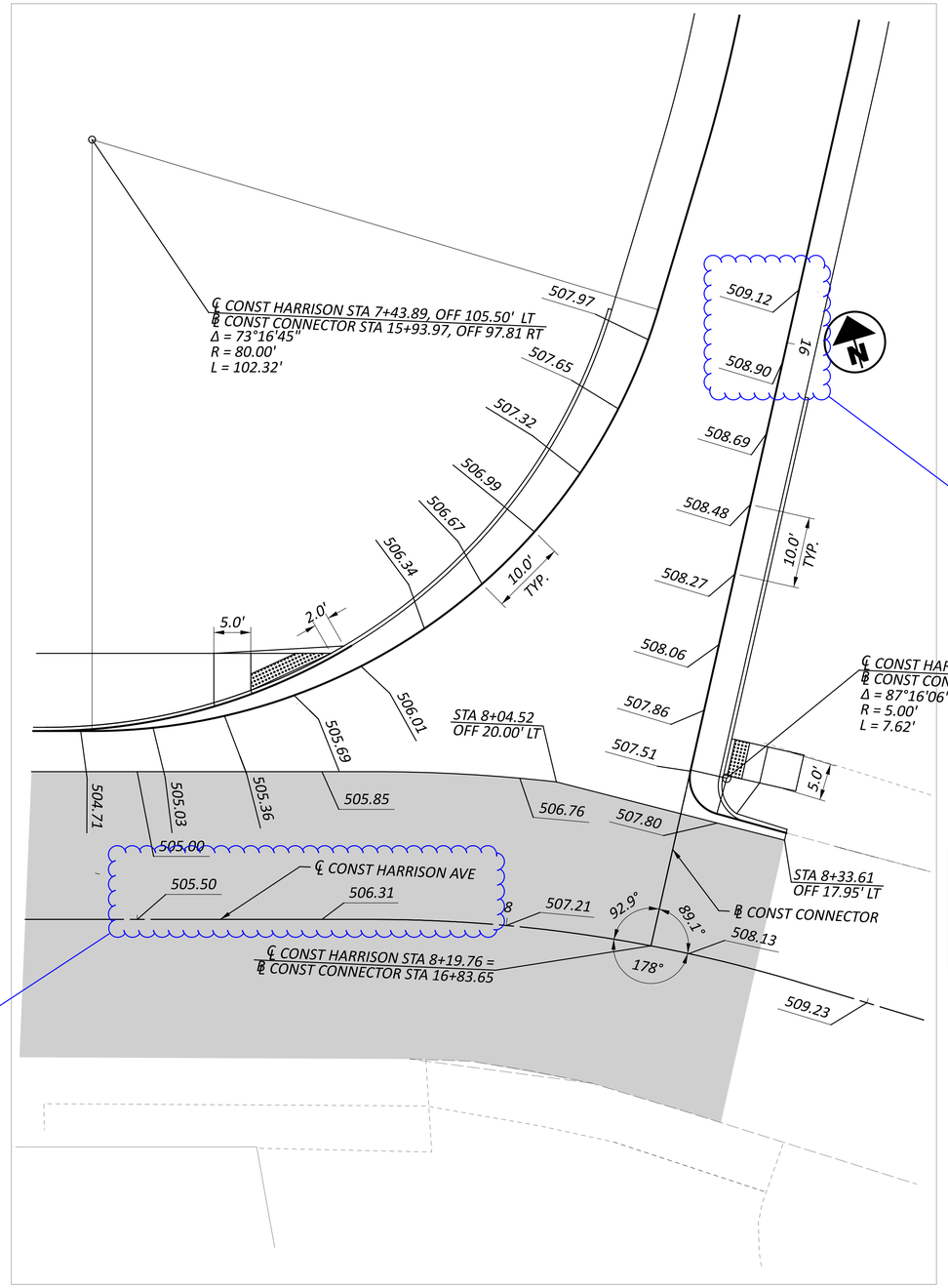
SHEET P.321 TOTAL 463

HAM-75-1.95

MODEL: Harrison and Spring Grove - Sheet1 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:21:38 AM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\v01-Engineering_EMHT\Roadway\Sheets\114161_GI008.dgn

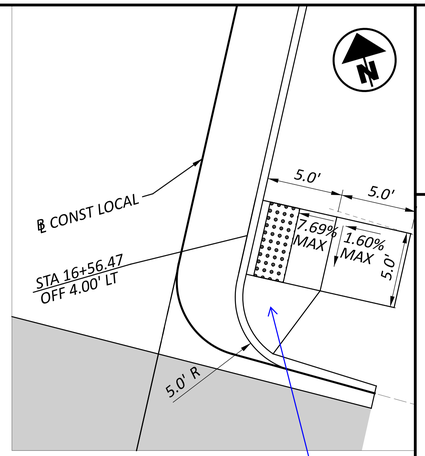


R2 **CURB RAMP DETAIL**
SCALE 1" = 5'



The profile elevation information for Harrison Ave. stops at Sta. 7+00. There is no way to verify the accuracy of the elevations on Harrison Ave. Will the profile be provided on future submissions?

On Sheet #53 the elevation @ Sta. 16+00 is 508.09. If that profile elevation is correct this intersection detail needs to be updated. Other locations on the Connector baseline appear to differ from Sheet #53..



R3 **CURB RAMP DETAIL**
SCALE 1" = 5'

This is an odd flare location. Can the entire width of the ramp taper down? Provide a full width landing and ramp.

HORIZONTAL SCALE IN FEET
0 5 10 20

LEGEND

- PAVEMENT PLANING AND OVERLAY

NOTE TO REVIEWER:
- CURB RAMP DETAILS TO BE ADDED IN STAGE 2

- ALL PROPOSED CURB ELEVATIONS ARE BOTTOM OF CURB UNLESS OTHERWISE NOTED

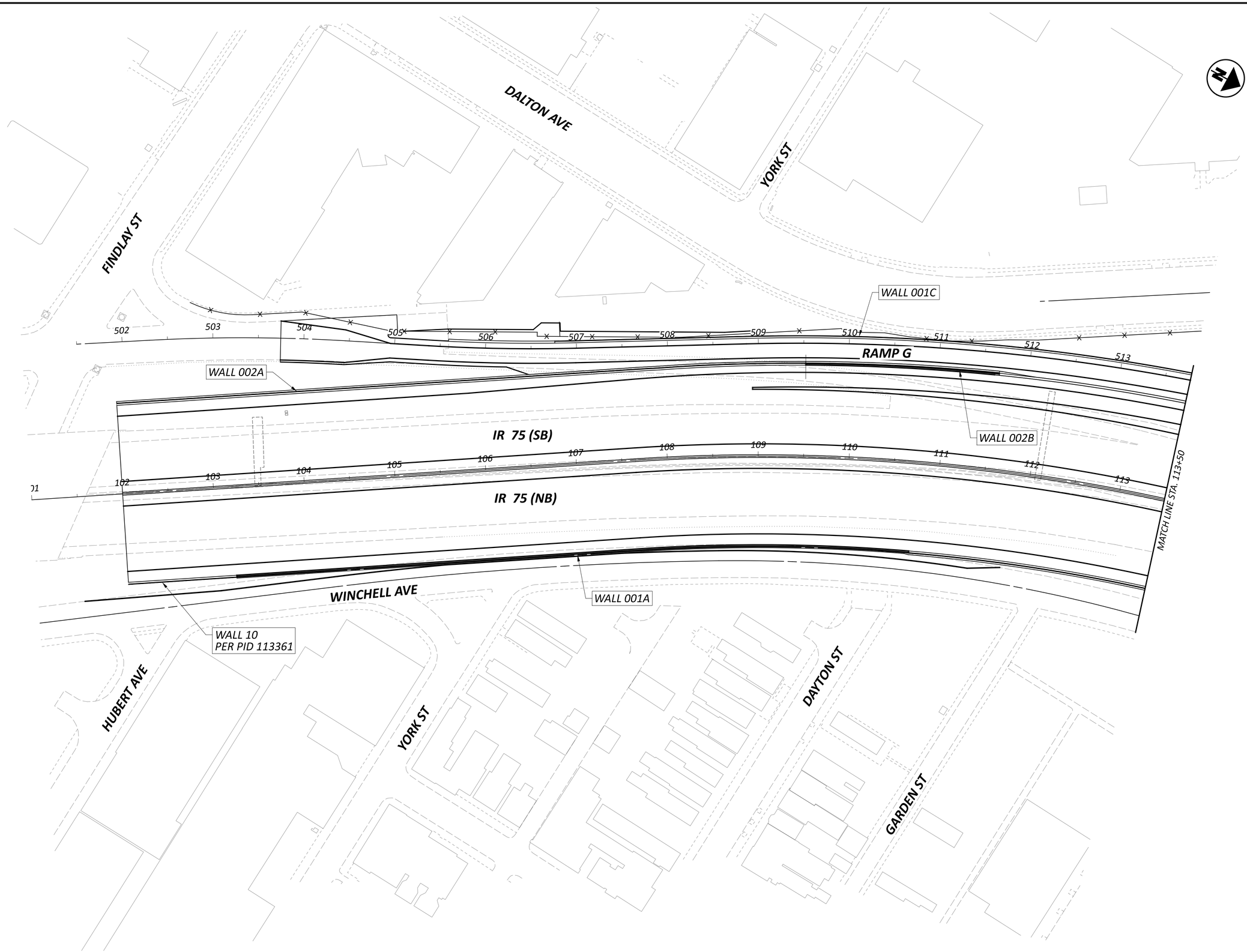
INTERSECTION DETAILS
HARRISON AVE AND WINCHELL AVE/CONNECTOR

DESIGN AGENCY
EMH&T

DESIGNER SJB
REVIEWER MJR 06/21/24
PROJECT ID 114161
SHEET P.322 TOTAL 463

HAM-75-1.95

MODEL: Connector - Sheet1 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:21:41 AM USER: sbeal
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Roadway\Sheets\114161_GI008.dgn



HORIZONTAL SCALE IN FEET
0 25 50 100

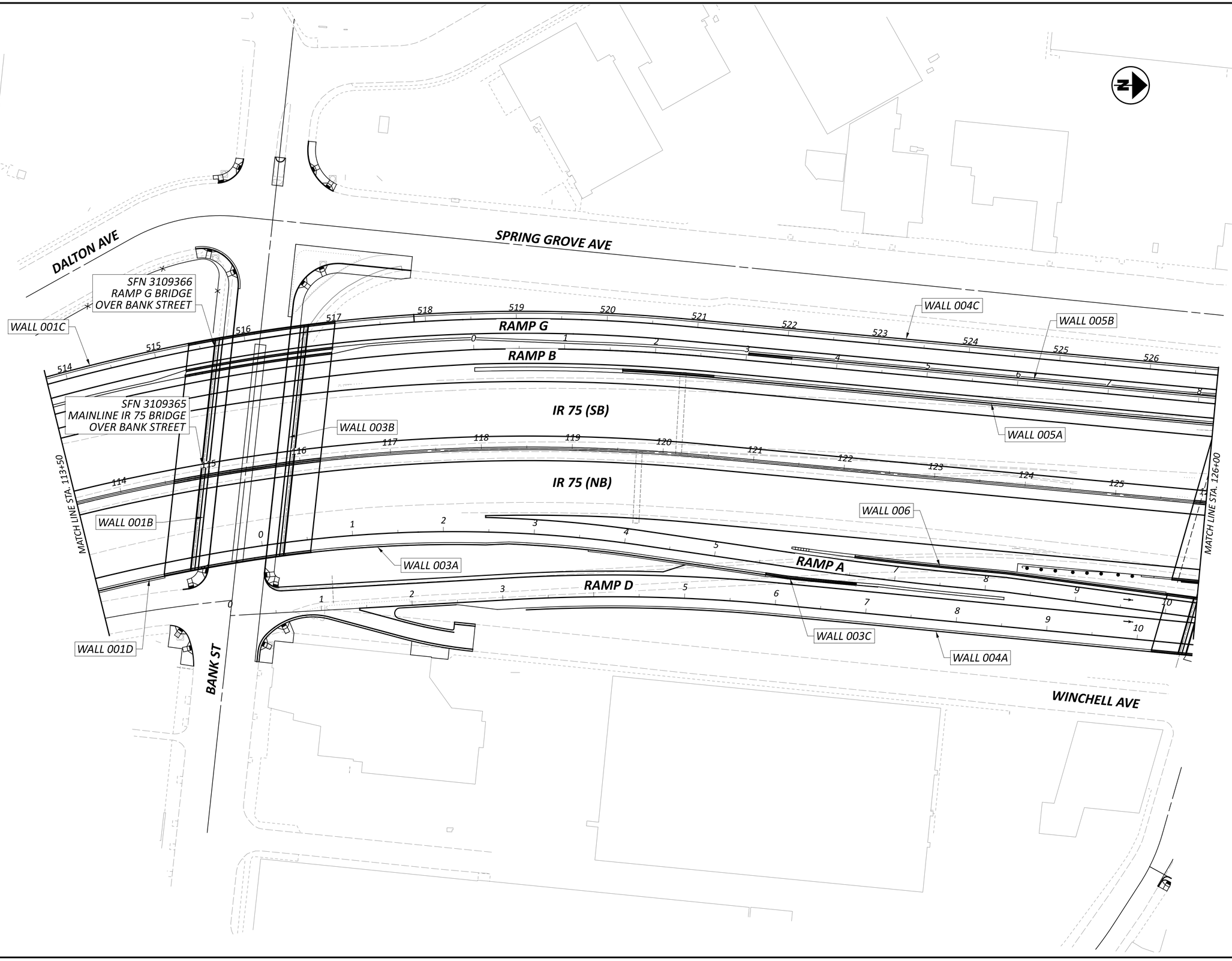
SCHEMATIC PLAN-1
STA 102+00.00 TO STA 113+50.00

HAM-75-1.95

MODEL: 114161_WB001 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 1:20:29 PM USER: aibrahimkhail
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMH&T\Structures\Wall_001\Sheets\114161_001_WB001.dgn

DESIGN AGENCY
EMH&T

DESIGNER	AI
REVIEWER	TDA 06/21/24
PROJECT ID	114161
SUBSET	TOTAL
1	4
SHEET	TOTAL
P.323	463



HAM-75-1.95

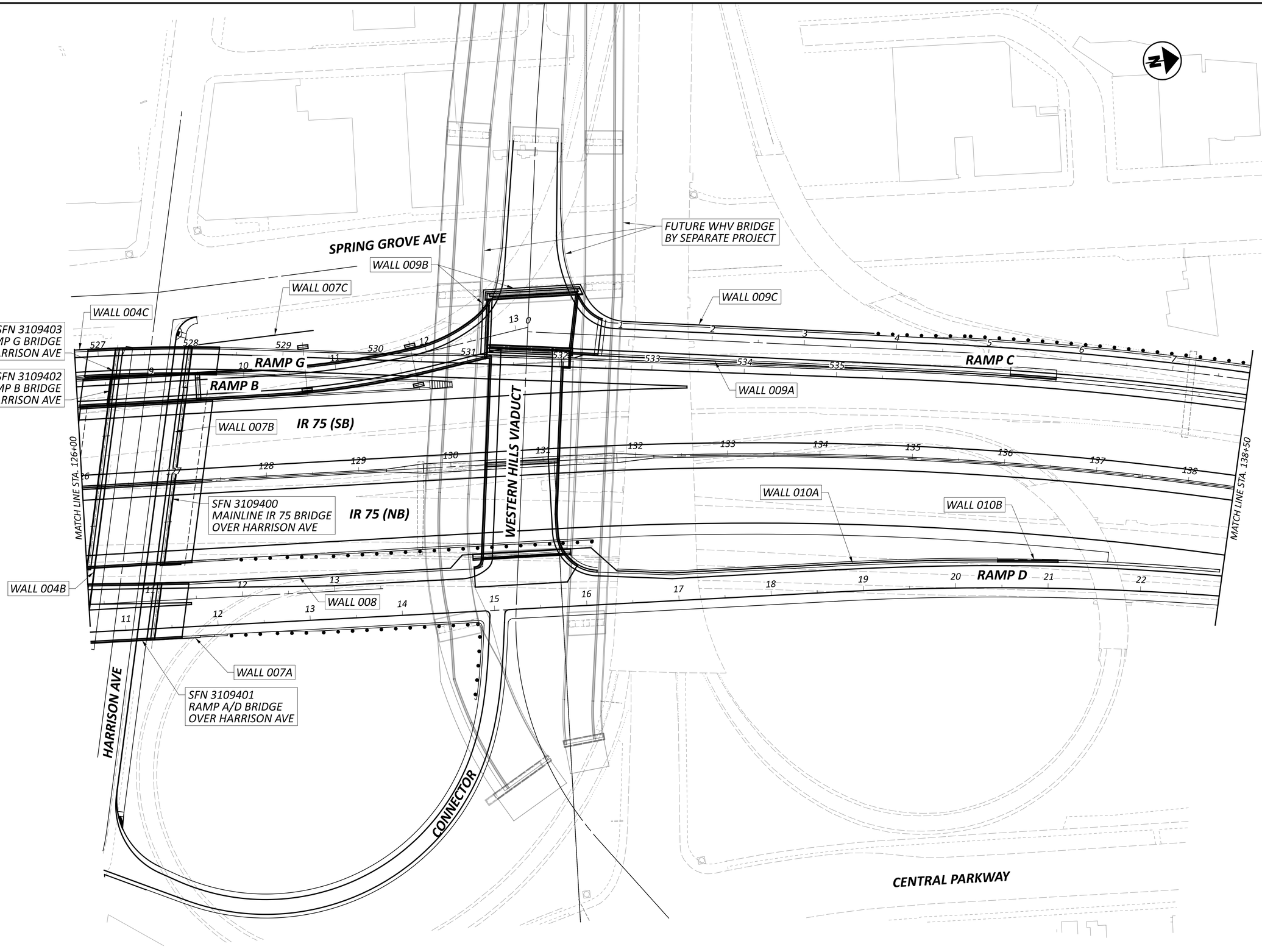
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HORIZONTAL SCALE IN FEET
0 25 50 100

SCHEMATIC PLAN-2
STA 113+50.00 TO STA 126+00.00

DESIGN AGENCY
EMH&T

DESIGNER	AI
REVIEWER	TDA 06/21/24
PROJECT ID	114161
SUBSET / TOTAL	2 / 4
SHEET / TOTAL	P.324 / 463



HAM-75-1.95

MODEL: 114161_WB003 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 1:20:58 PM USER: albrahimkhail
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HORIZONTAL SCALE IN FEET
0 25 50 100

SCHEMATIC PLAN-3
STA 126+00.00 TO STA 138+50.00

DESIGN AGENCY
EMH&T

DESIGNER	AI
REVIEWER	TDA 06/21/24
PROJECT ID	114161
SUBSET / TOTAL	3 / 4
SHEET / TOTAL	P.325 / 463

HORIZONTAL SCALE IN FEET
0 25 50 100

SCHEMATIC PLAN-4
STA 138+50.00 TO STA 151+00.00

DESIGN AGENCY
EMH&T

DESIGNER
AI

REVIEWER
TDA 06/21/24

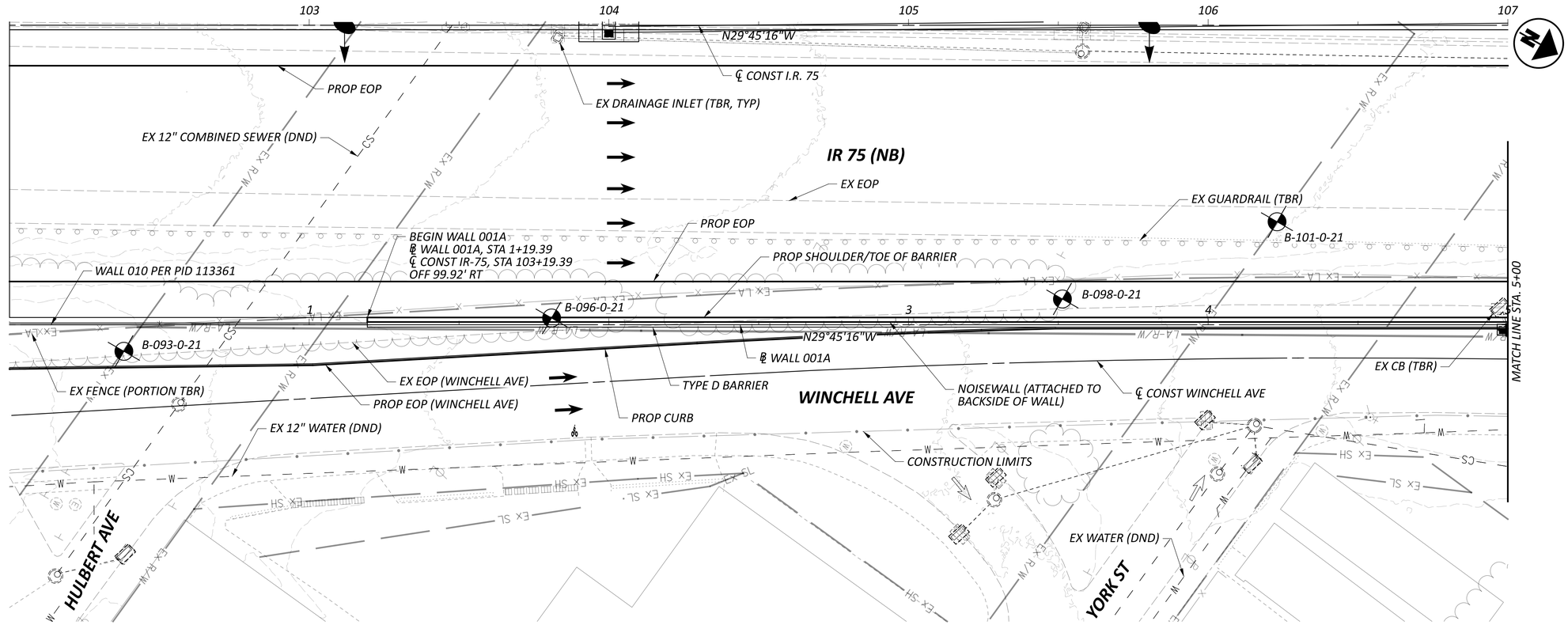
PROJECT ID
114161

SUBSET 4 | TOTAL 4

SHEET P.326 | TOTAL 463

HAM-75-1.95

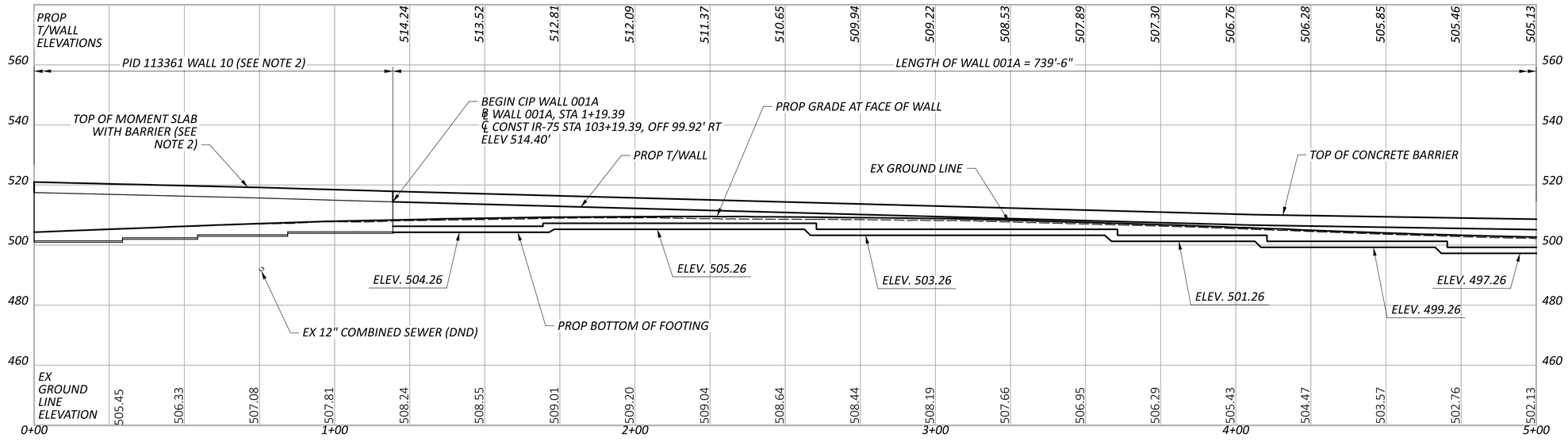
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NOTES:

1. ALL STATIONS, OFFSETS, ELEVATIONS AND DIMENSIONS MEASURED ABOUT THE BASELINE OF CIP WALL.
2. NOTE TO REVIEWER: THE INTENT IS FOR THE 113361 MSE WALL TO EXTEND NORTH FROM THE FINDLAY BRIDGE TO A POINT THAT THE 114161 PROJECT STARTS WITH A CIP WALL. THE EXACT LOCATION OF THIS TRANSITION POINT WILL BE DETERMINED IN STAGE 2 DESIGN.
3. NOTE TO REVIEWER: WALL DRAINAGE DETAILS IN PLAN AND ELEVATION WILL BE PROVIDED AT STAGE 2.

PLAN



PROFILE ALONG ℄ WALL 001A

HAM-75-1.95

MODEL: 114161_WALL001A_WP001 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 1:21:26 PM USER: aibrahimkhail
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Structures\Wall_001\Sheets\114161_WALL001A_WP001.dgn

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
RETAINING WALL NO 001A ALONG MAINLINE IR 75
STA 1+19.39 TO STA 5+00.00

SFN N/A

DESIGN AGENCY EMH&T

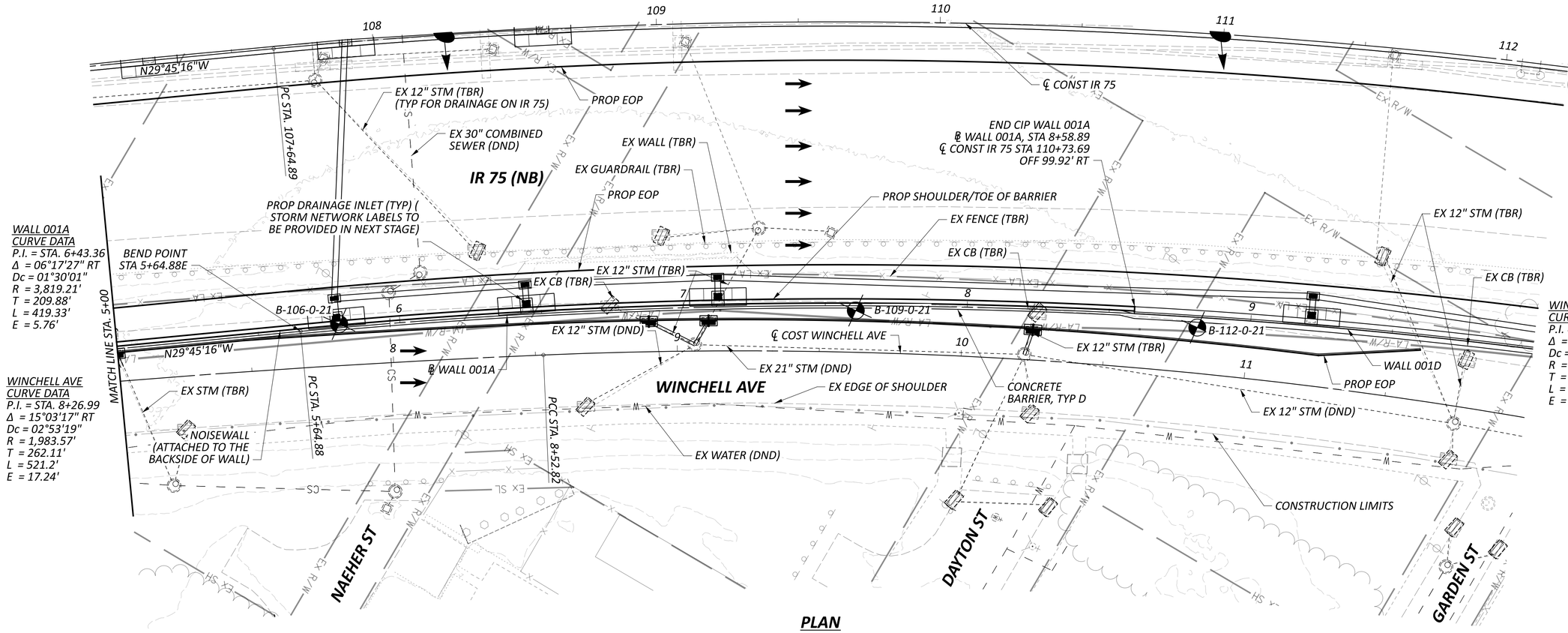
DESIGNER	CHECKER
AI	JGM

REVIEWER CAS 06/21/24

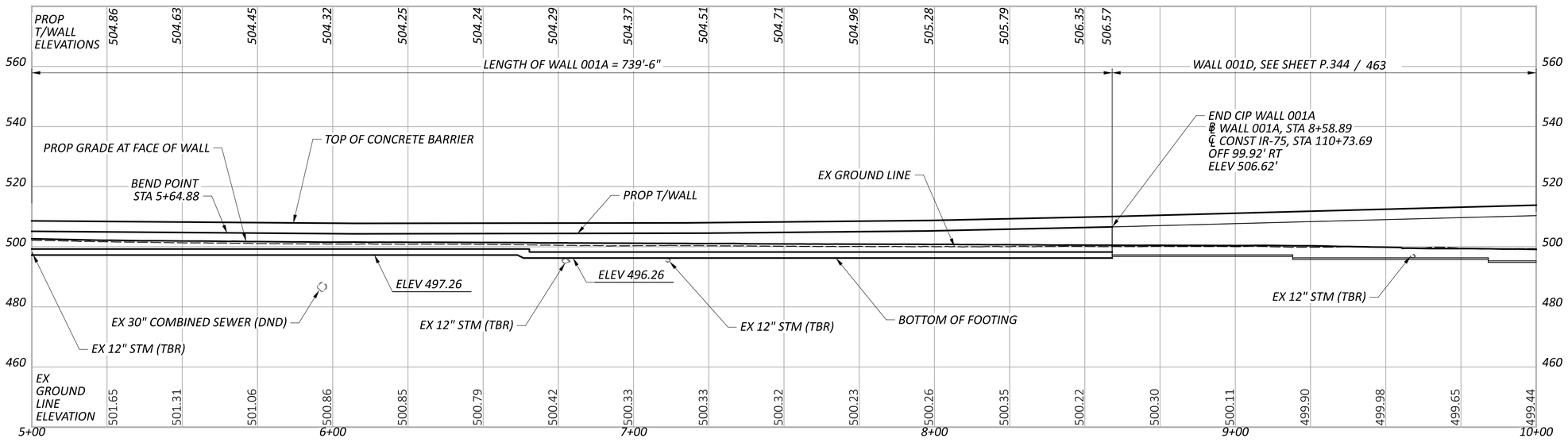
PROJECT ID 114161

SUBSET	TOTAL
1	11

SHEET	TOTAL
P.327	463



PLAN



PROFILE ALONG ℄ WALL 001A

HORIZONTAL
SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
RETAINING WALL NO 001A ALONG MAINLINE IR 75
STA 5+00.00 TO STA 8+58.89

SFN
N/A

DESIGN AGENCY
EMH&T

DESIGNER	CHECKER
AI	JGM

REVIEWER
CAS 06/21/24

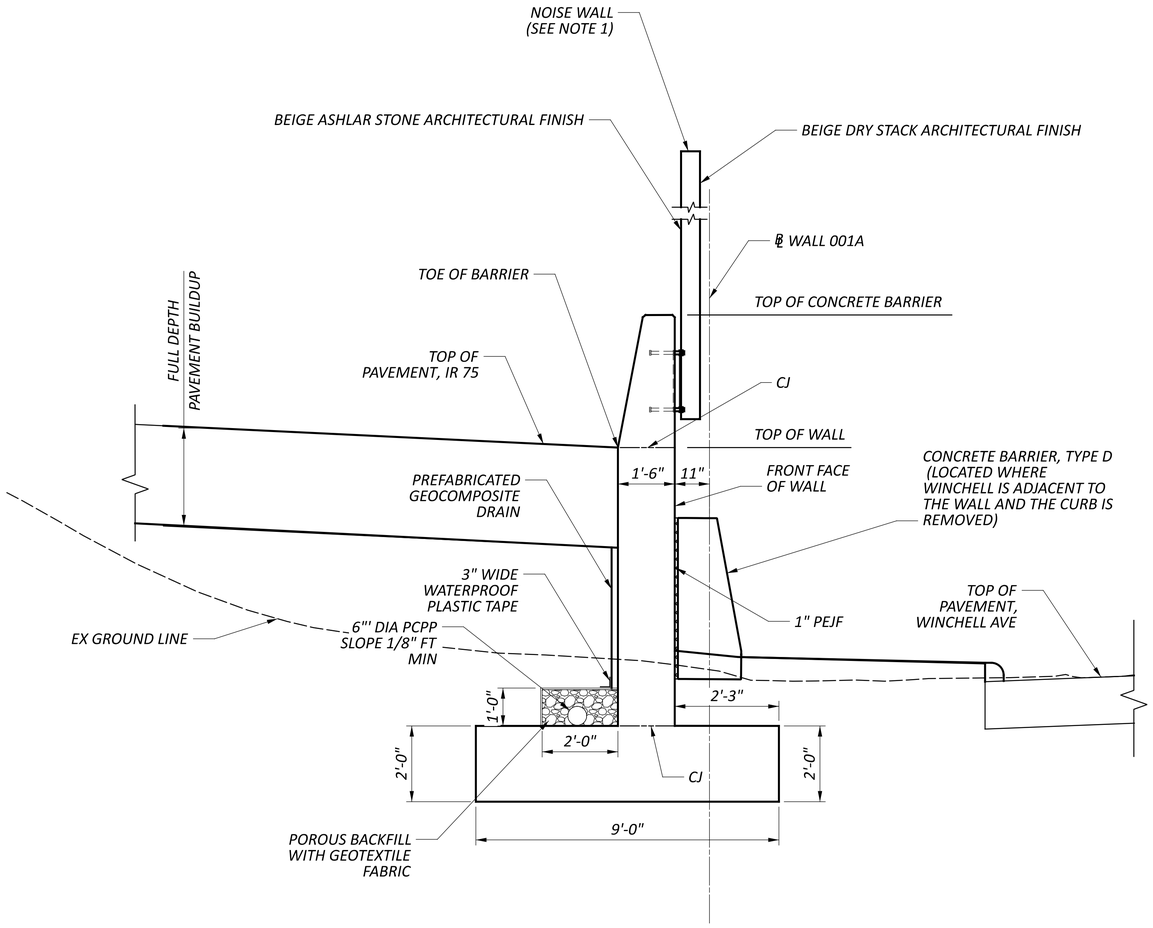
PROJECT ID
114161

SUBSET	TOTAL
2	11

SHEET	TOTAL
P.328	463

HAM-75-1.95

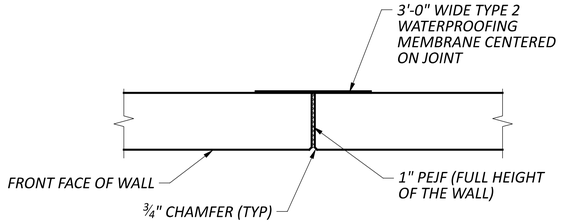
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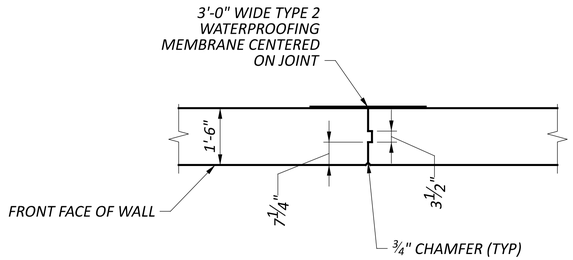
CAST IN PLACE WALL WITH NOISE WALL

NOTE TO REVIEWER:

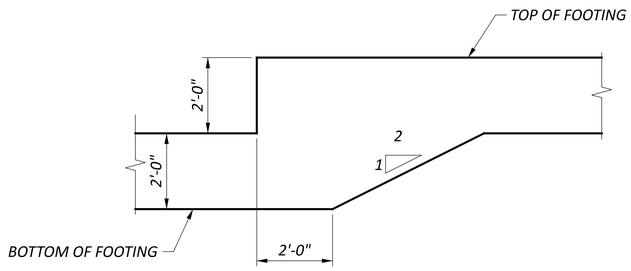
1. THE NOISEWALL MOUNTED TO THE BACK OF THE BARRIER WAS A LATE ADDITION TO THE STAGE 1 PLANS. FULL NOISEWALL DETAILS WILL BE INCORPORATED AT STAGE 2.



EXPANSION JOINT



CONTRACTION JOINT



CAST IN PLACE WALL FOUNDATION STEP DETAIL

WALL SECTIONS
RETAINING WALL NO 001A
ALONG MAINLINE IR-75

SFN N/A

DESIGN AGENCY EM&T

DESIGNER	CHECKER
AI	JGM

REVIEWER CAS 06/21/24

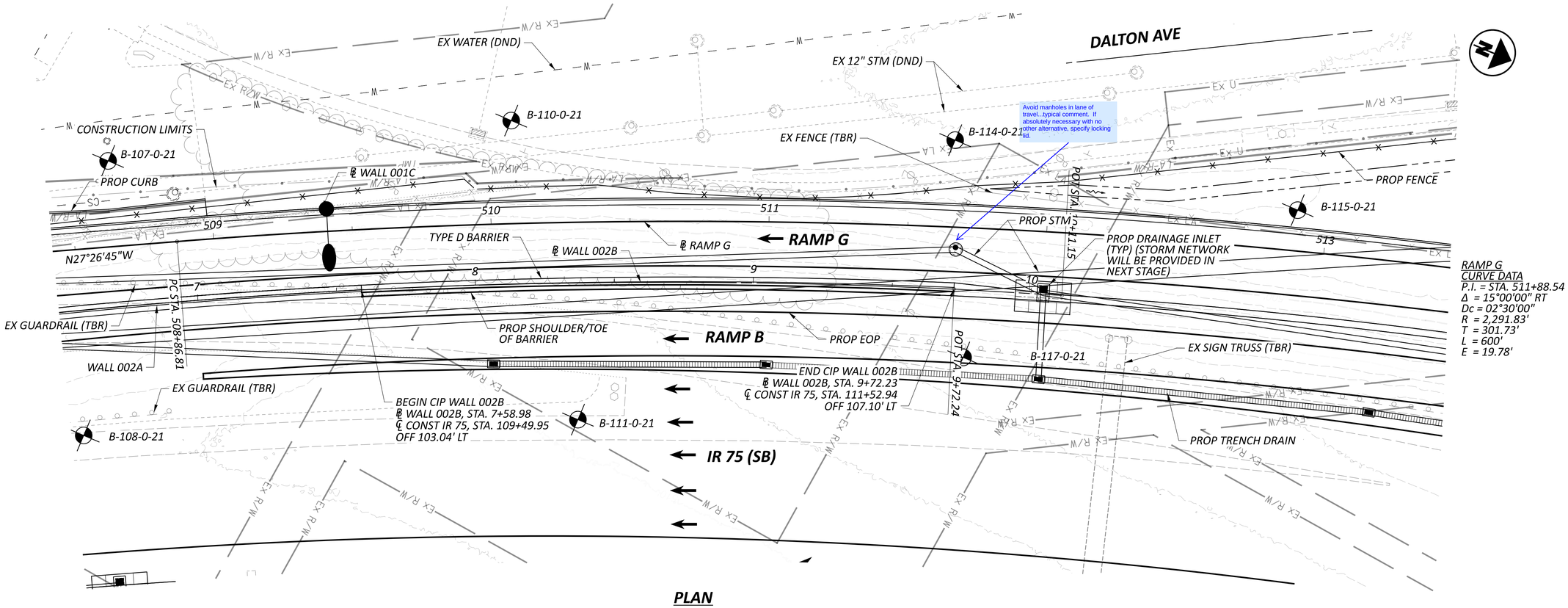
PROJECT ID 114161

SUBSET	TOTAL
3	11

SHEET	TOTAL
P.329	463

HAM-75-1.95

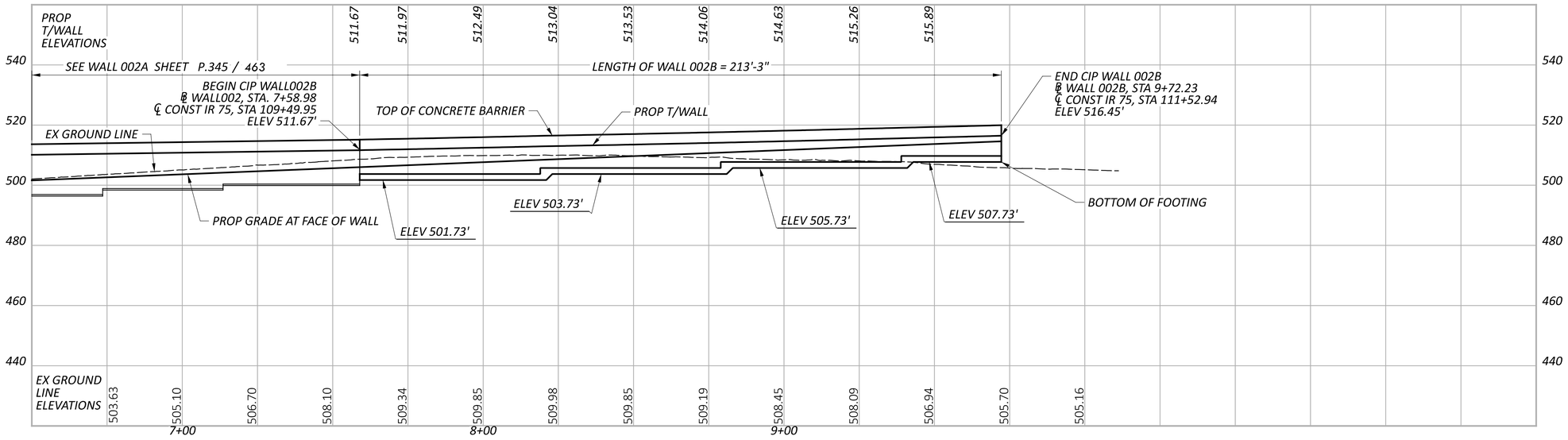
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PLAN

NOTES:

1. ALL STATIONS, OFFSETS, ELEVATIONS AND DIMENSIONS MEASURED ABOUT THE BASELINE OF CIP WALL.
2. NOTE TO REIVIEWER: WALL DRAINAGE DETAILS IN PLAN AND ELEVATION WILL BE PROVIDED IN STAGE 2.



PROFILE ALONG ℄ WALL 002B

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
RETAINING WALL NO 002B ALONG RAMP B
STA. 7+58.98 TO STA. 9+72.23

SFN N/A

DESIGN AGENCY EMH&T

DESIGNER	CHECKER
AI	JGM

REVIEWER CAS 06/21/24

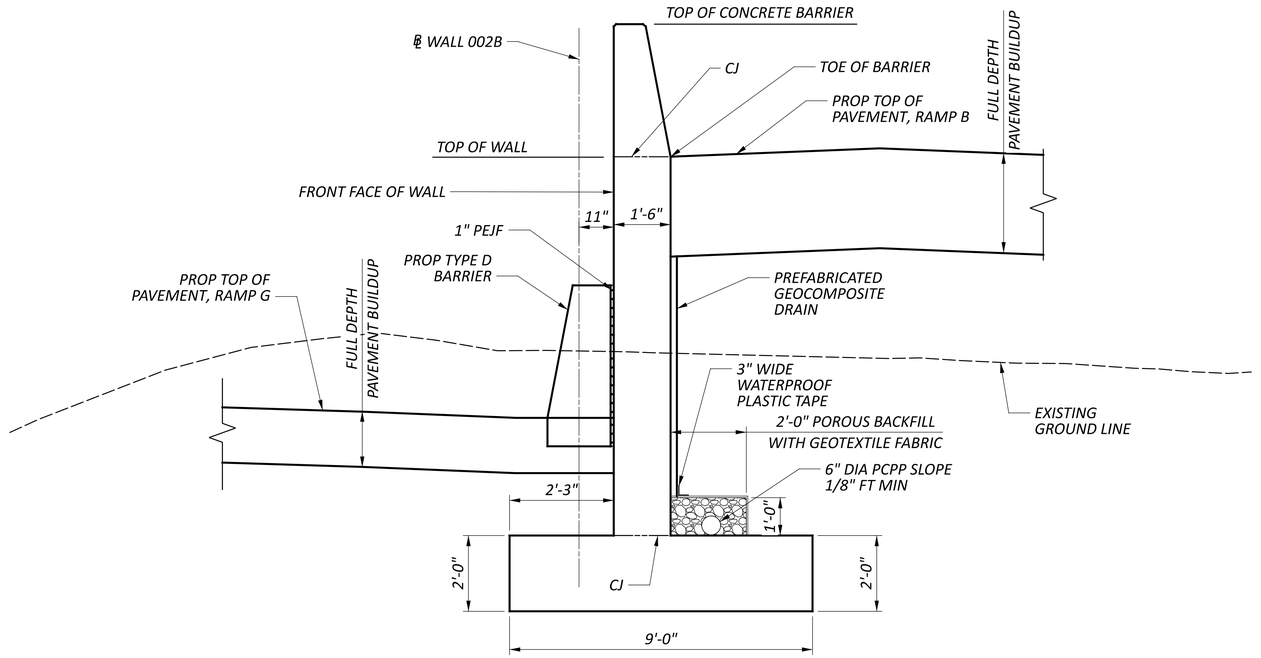
PROJECT ID 114161

SUBSET	TOTAL
4	11

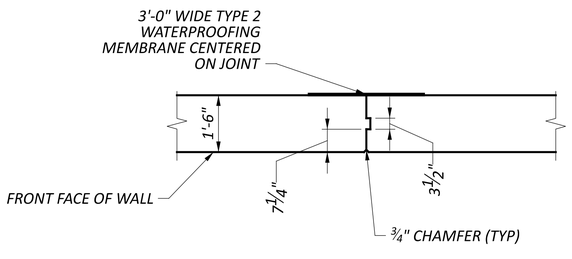
SHEET	TOTAL
P.330	463

HAM-75-1.95

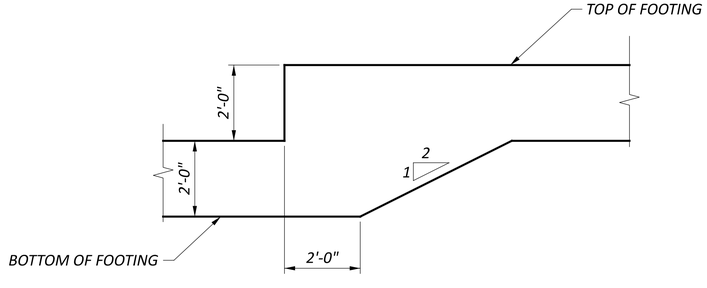
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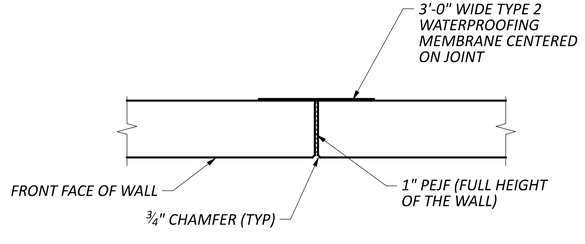
TYPICAL CAST-IN-PLACE SECTION WALL 002B



CONTRACTION JOINT



CAST IN PLACE WALL FOUNDATION STEP DETAIL



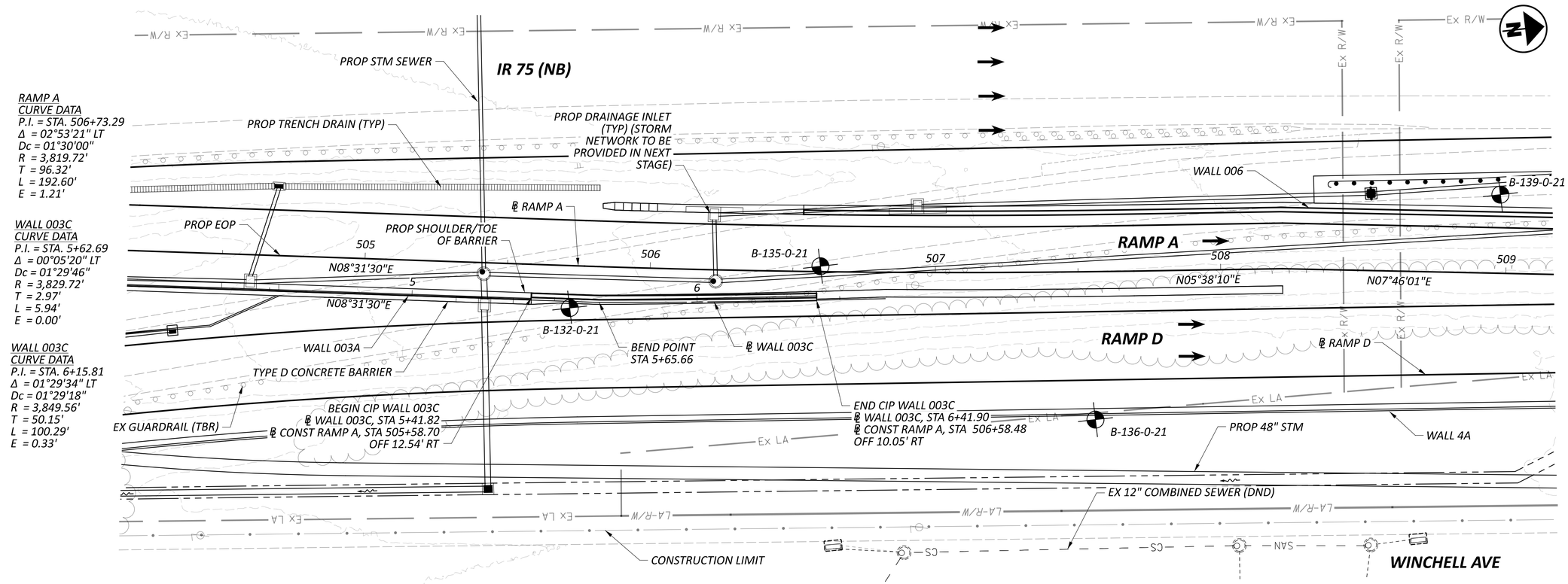
EXPANSION JOINT

WALL SECTIONS
RETAINING WALL NO 002B
ALONG RAMP B

HAM-75-1.95

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 1:23:13 PM USER: aibrahimkhail
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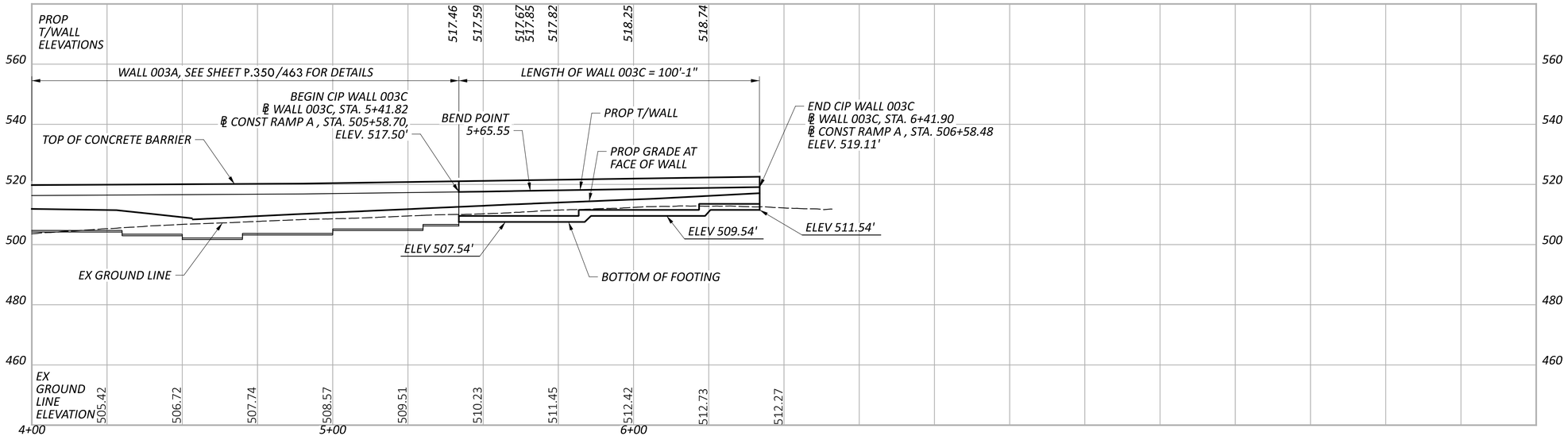
SFN	N/A
DESIGN AGENCY	EMH&T
DESIGNER	AI
CHECKER	JGM
REVIEWER	CAS 06/21/24
PROJECT ID	114161
SUBSET	5
TOTAL	11
SHEET	P.331
TOTAL	463



NOTES:

1. ALL STATIONS, OFFSETS, ELEVATIONS AND DIMENSIONS MEASURED ABOUT THE BASELINE OF CIP WALL.
2. NOTE TO REIVIEWER: WALL DRAINAGE DETAILS IN PLAN AND ELEVATION WILL BE PROVIDED IN STAGE 2.

PLAN



PROFILE ALONG ℄ WALL 003C

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
RETAINING WALL NO 003C ALONG RAMP A
STA 5+41.82 TO STA 6+41.90

SFN N/A

DESIGN AGENCY EMH&T

DESIGNER	CHECKER
AI	JGM

REVIEWER CAS 06/21/24

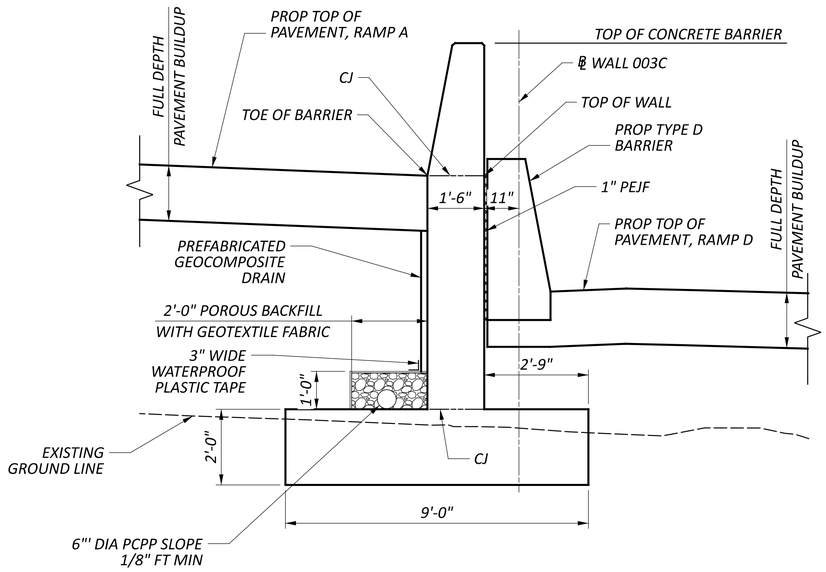
PROJECT ID 114161

SUBSET	TOTAL
6	11

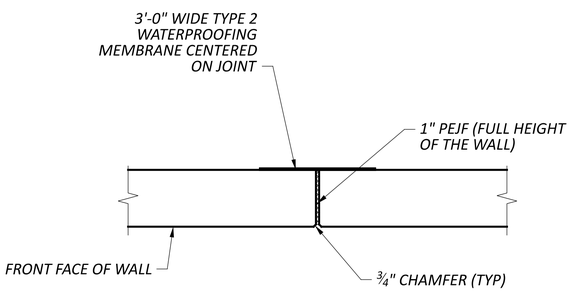
SHEET	TOTAL
P.332	463

HAM-75-1.95

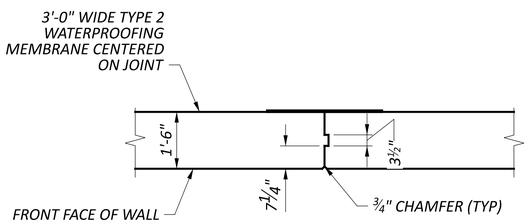
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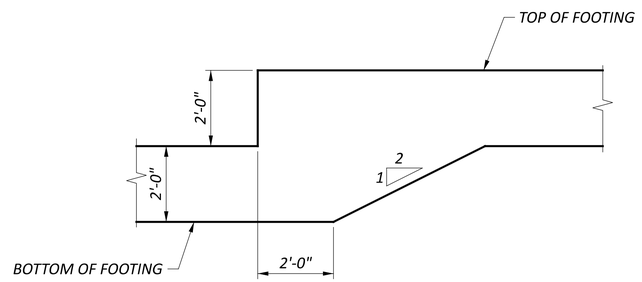
TYPICAL CAST-IN-PLACE SECTION WALL 003C



EXPANSION JOINT



CONTRACTION JOINT



CAST IN PLACE WALL FOUNDATION STEP DETAIL

WALL SECTIONS
RETAINING WALL NO 003C
ALONG RAMP A

SFN
N/A

DESIGN AGENCY
E M H & T

DESIGNER	CHECKER
AI	JGM

REVIEWER
CAS 06/21/24

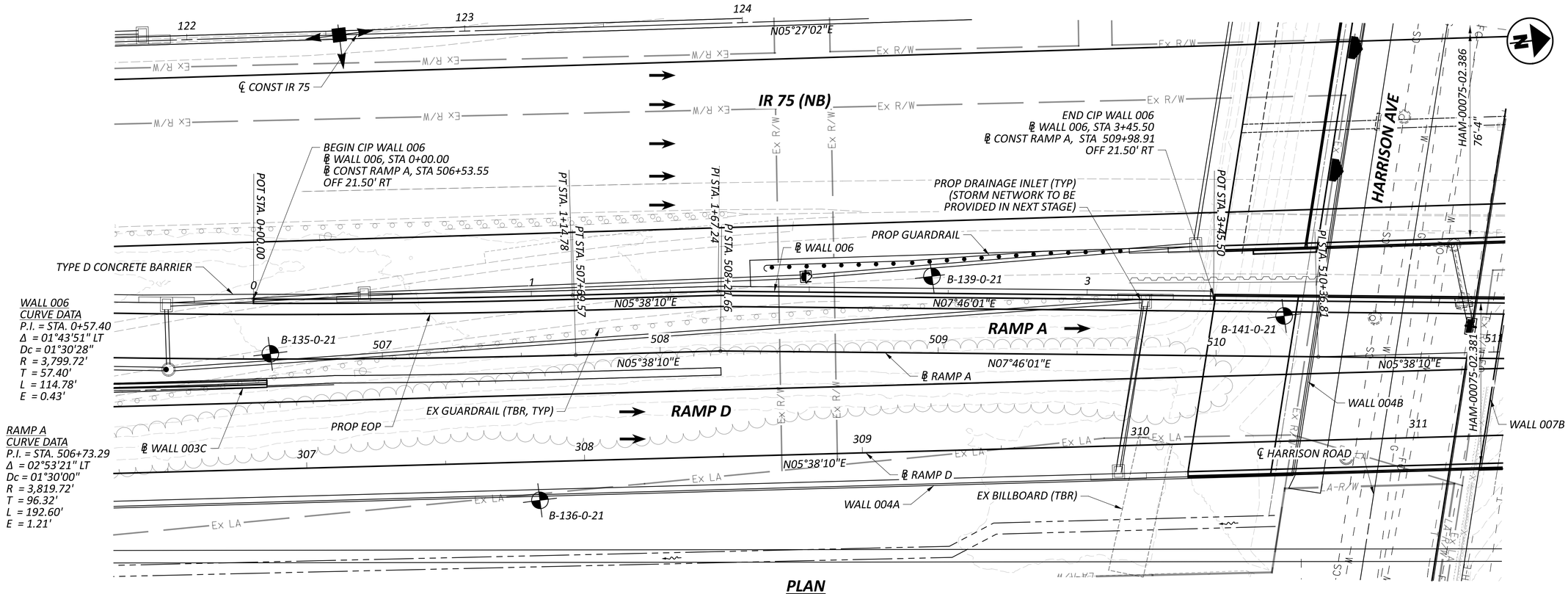
PROJECT ID
114161

SUBSET	TOTAL
7	11

SHEET	TOTAL
P.333	463

HAM-75-1.95

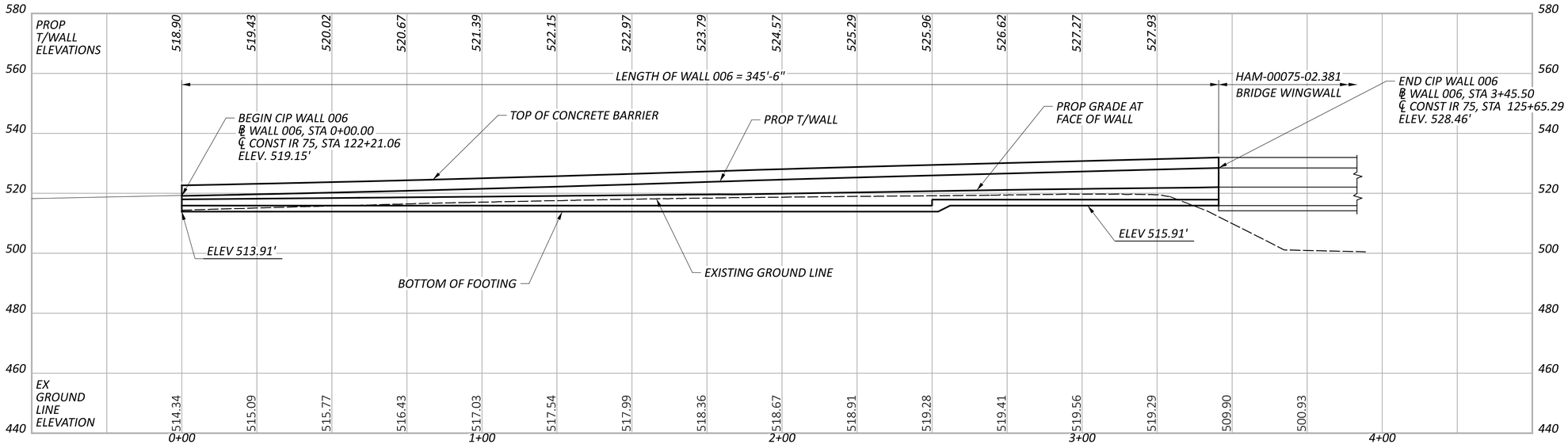
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PLAN

NOTES:

1. ALL STATIONS, OFFSETS, ELEVATIONS AND DIMENSIONS MEASURED ABOUT THE BASELINE OF CIP WALL.
2. NOTE TO REIVIEWER: WALL DRAINAGE DETAILS IN PLAN AND ELEVATION WILL BE PROVIDED IN STAGE 2.



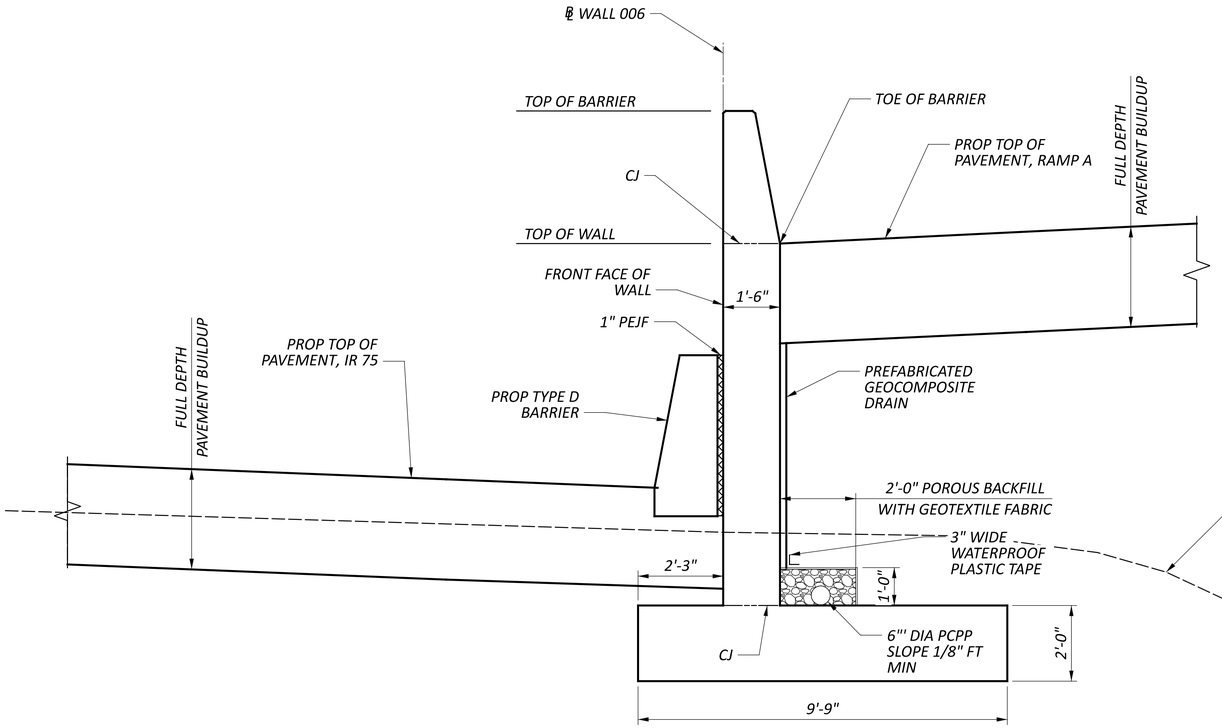
PROFILE ALONG ℄ WALL 006

PLAN AND PROFILE
RETAINING WALL NO 006 ALONG RAMP A
STA 0+00.00 TO STA 3+45.50

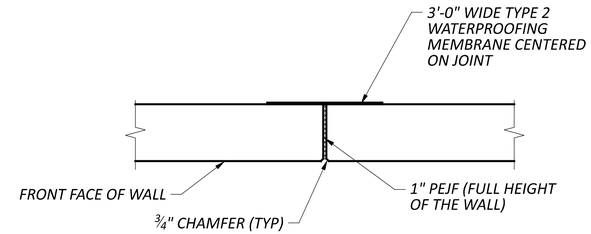
SFN	N/A
DESIGN AGENCY	EMH&T
DESIGNER	AI
CHECKER	JGM
REVIEWER	CAS 06/21/24
PROJECT ID	114161
SUBSET	8
TOTAL	11
SHEET	P.334
TOTAL	463

HAM-75-1.95

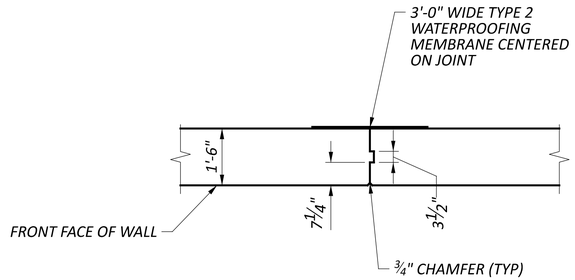
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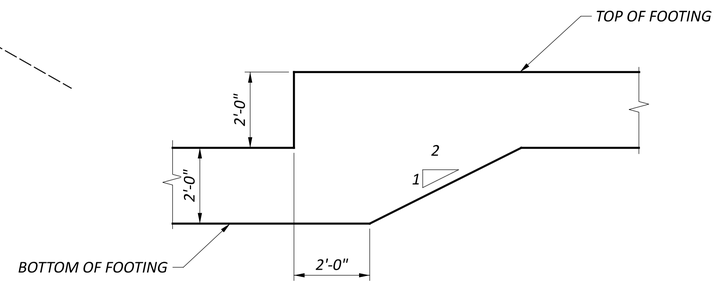
TYPICAL CAST-IN-PLACE SECTION WALL 006



EXPANSION JOINT



CONTRACTION JOINT



CAST IN PLACE WALL FOUNDATION STEP DETAIL

WALL SECTIONS
RETAINING WALL NO 006
ALONG RAMP A

SFN N/A

DESIGN AGENCY EMH&T

DESIGNER	CHECKER
AI	JGM

REVIEWER CAS 06/21/24

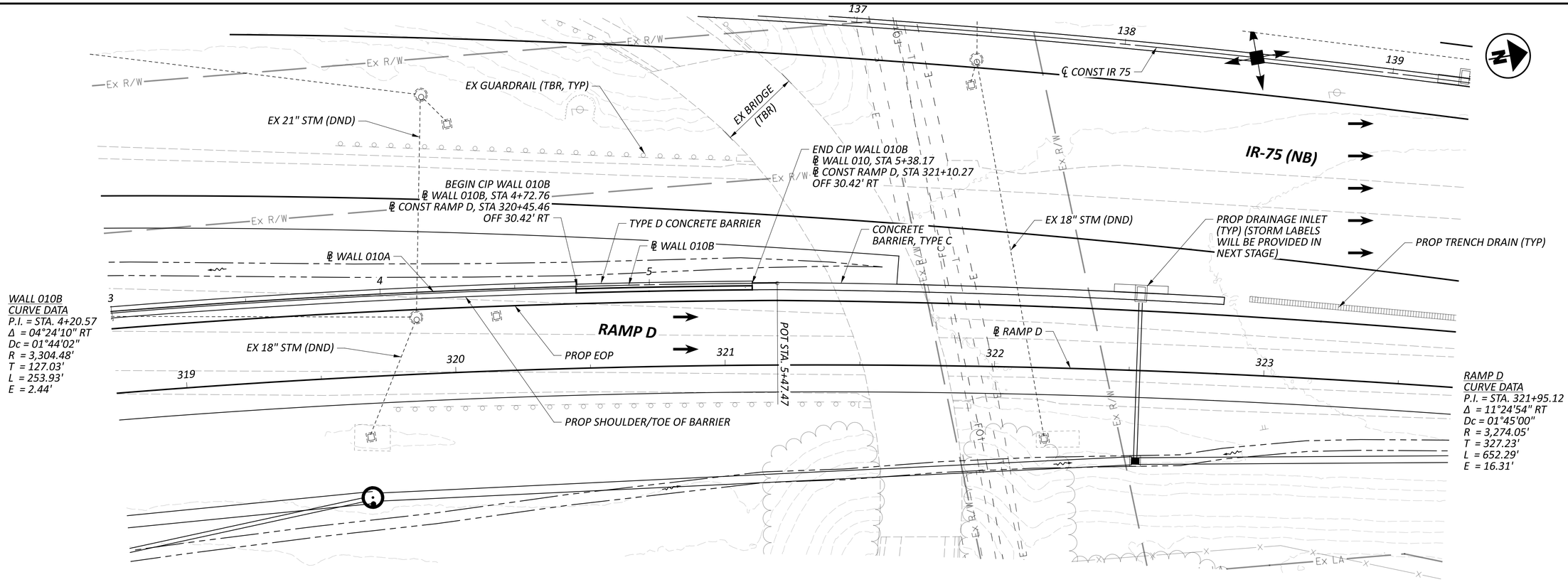
PROJECT ID 114161

SUBSET	TOTAL
9	11

SHEET	TOTAL
P.335	463

HAM-75-1.95

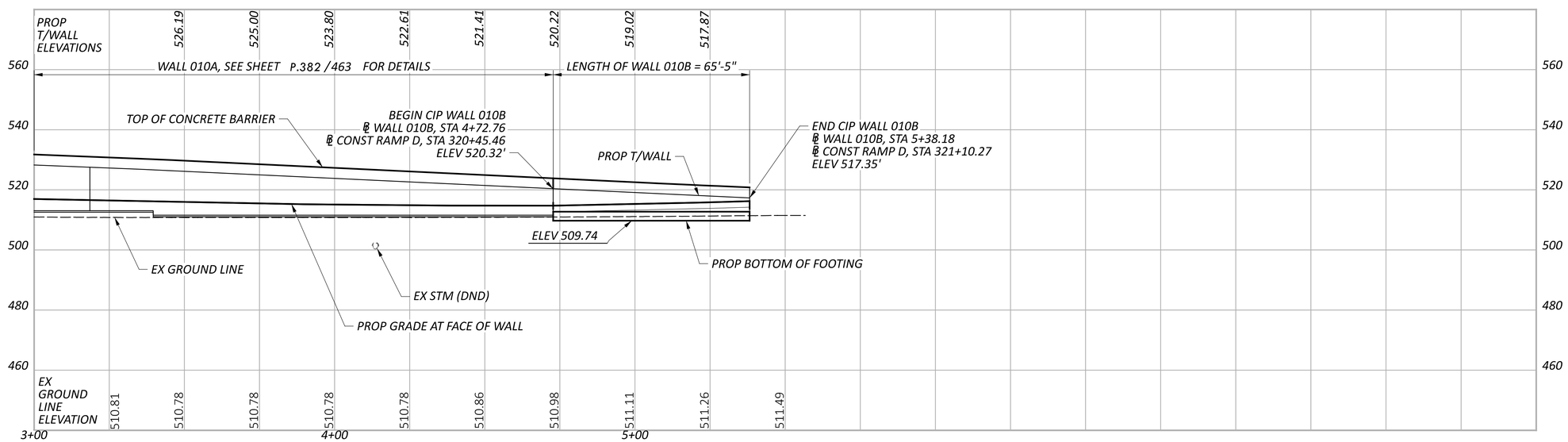
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PLAN

NOTES:

1. ALL STATIONS, OFFSETS, ELEVATIONS AND DIMENSIONS MEASURED ABOUT THE BASELINE OF CIP WALL.
2. NOTE TO REIVIEWER: WALL DRAINAGE DETAILS IN PLAN AND ELEVATION WILL BE PROVIDED IN STAGE 2.



PROFILE ALONG ℄ WALL 010B

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
RETAINING WALL NO 010B ALONG RAMP D
STA 4+72.76 TO STA 5+38.18

SFN N/A

DESIGN AGENCY EMH&T

DESIGNER	CHECKER
AI	JGM

REVIEWER CAS 06/21/24

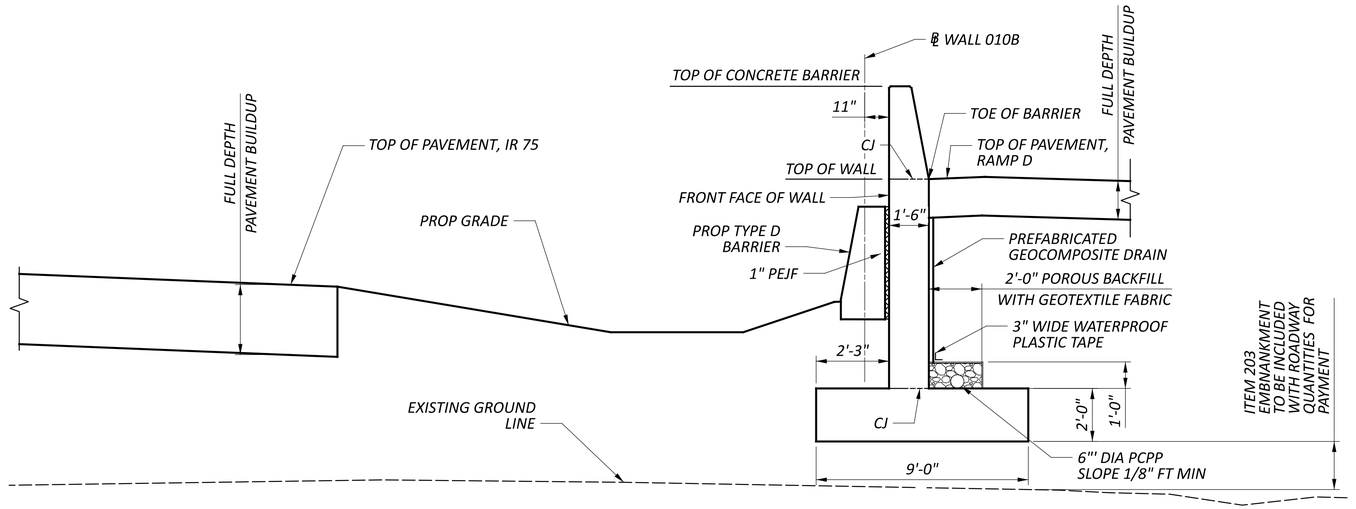
PROJECT ID 114161

SUBSET	TOTAL
10	11

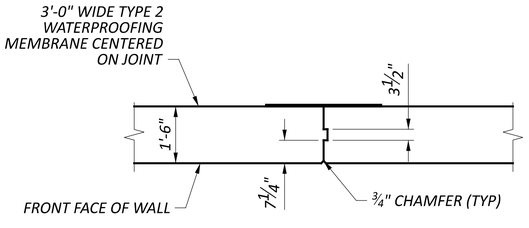
SHEET	TOTAL
P.336	463

HAM-75-1.95

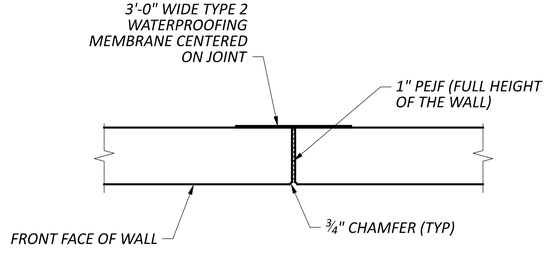
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TYPICAL CAST-IN-PLACE SECTION WALL 010B



CONTRACTION JOINT



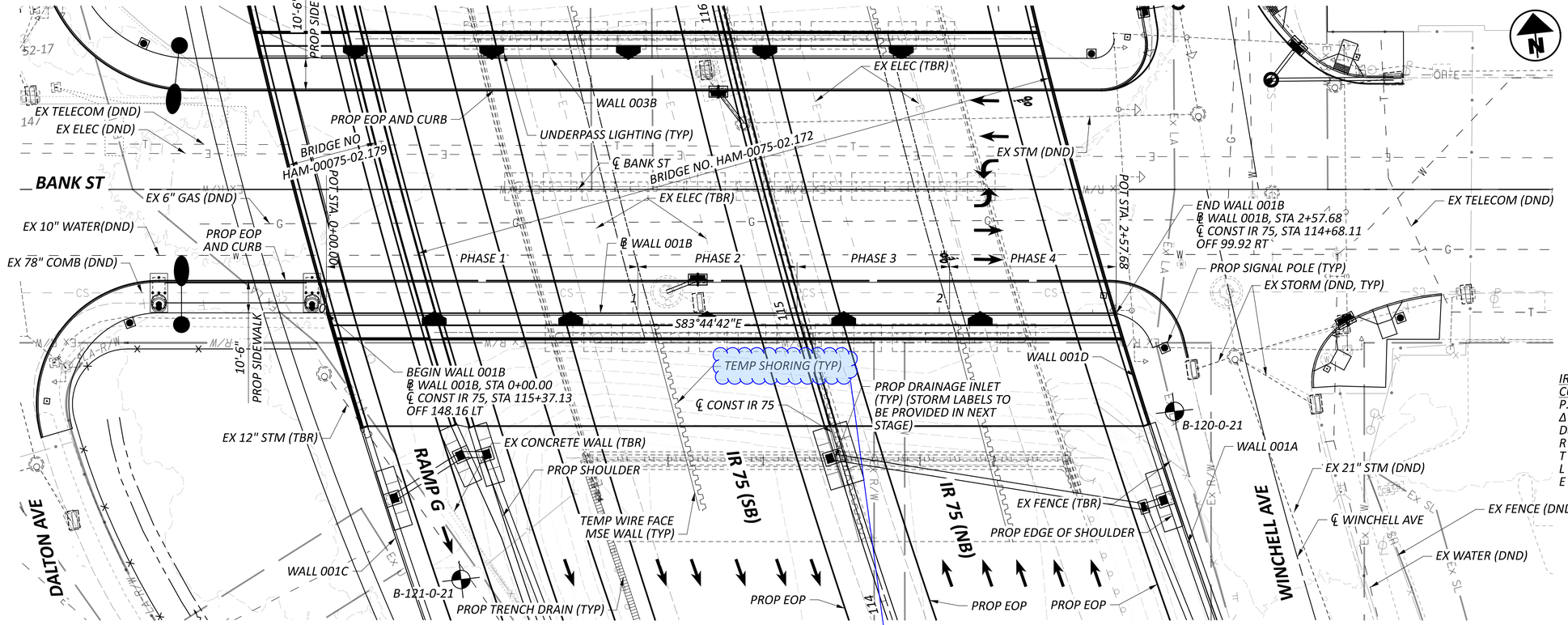
EXPANSION JOINT

WALL SECTIONS
RETAINING WALL NO 010B
ALONG RAMP D

SFN	N/A
DESIGN AGENCY	EMH&T
DESIGNER	AI
CHECKER	JGM
REVIEWER	CAS 06/21/24
PROJECT ID	114161
SUBSET	11
TOTAL	11
SHEET	P.337
TOTAL	463

HAM-75-1.95

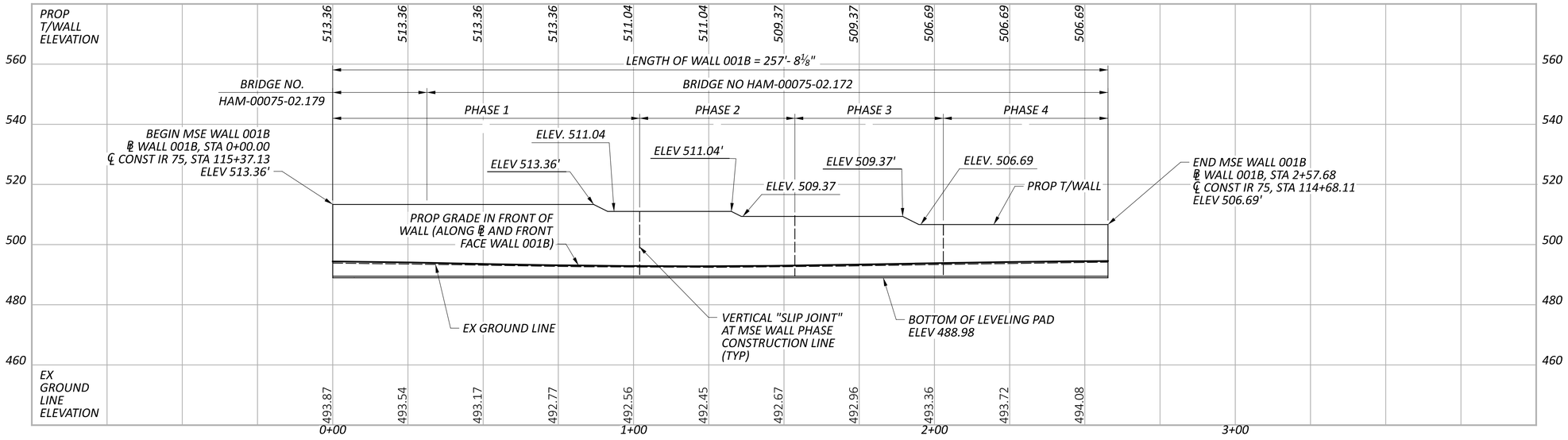
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PLAN

NOTES:

1. DIMENSIONS MEASURED ALONG BASELINE OF WALL.
2. NOTE TO REIVIEWER: WALL DRAINAGE DETAILS IN PLAN AND ELEVATION WILL BE PROVIDED IN STAGE 2.



PROFILE ALONG ℄ WALL 001B

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
RETAINING WALL NO 001B ALONG IR 75 AND BANK STREET
STA 0+00.00 TO STA 2+57.68

SFN N/A

DESIGN AGENCY EMH&T

DESIGNER	CHECKER
AI	JGM

REVIEWER CAS 06/21/24

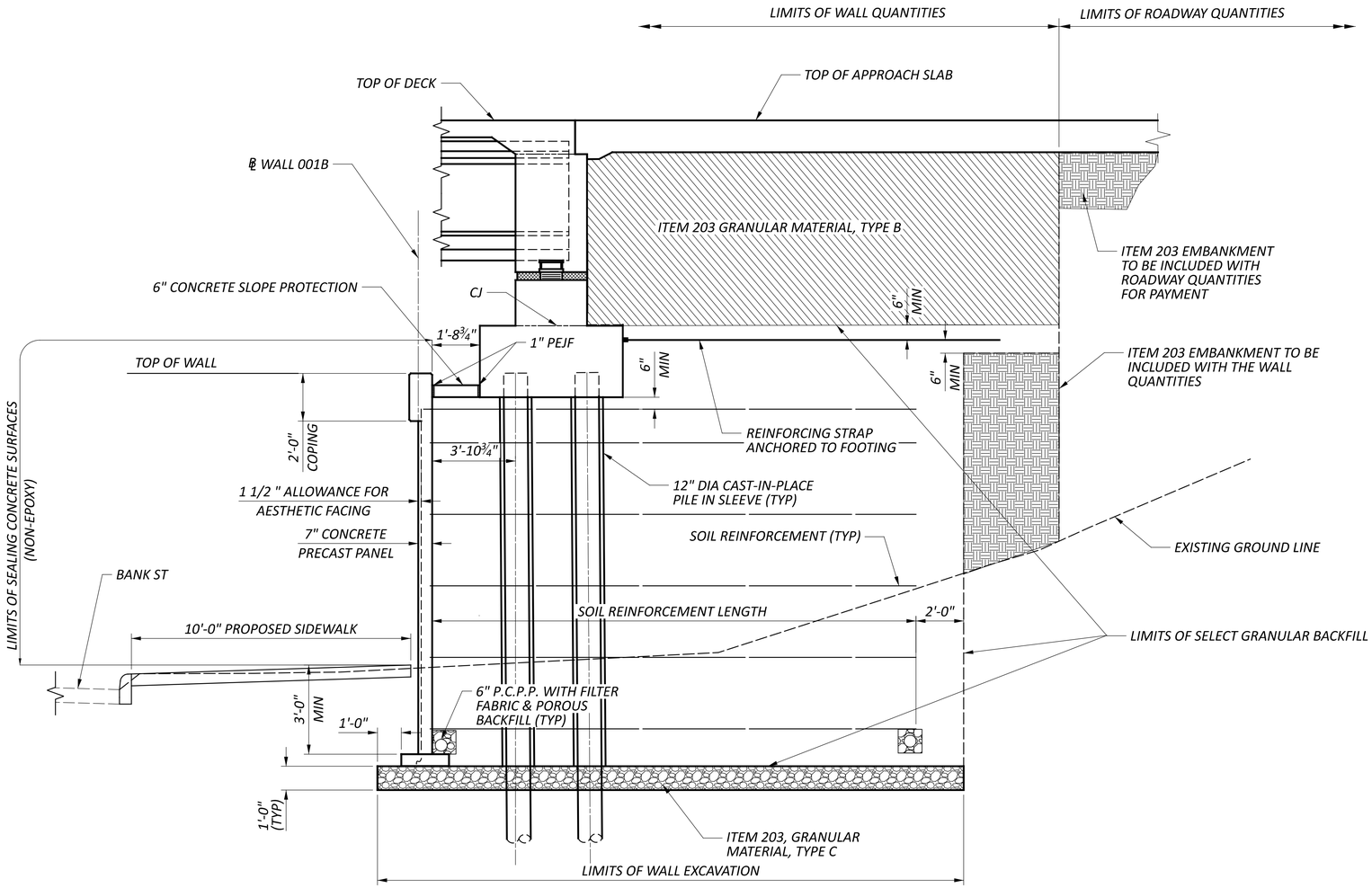
PROJECT ID 114161

SUBSET	TOTAL
1	45

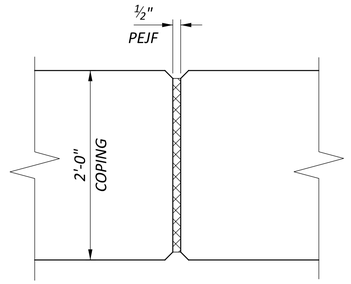
SHEET	TOTAL
P.338	463

HAM-75-1.95

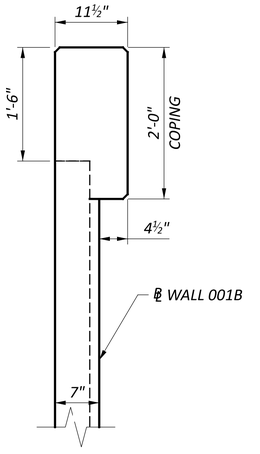
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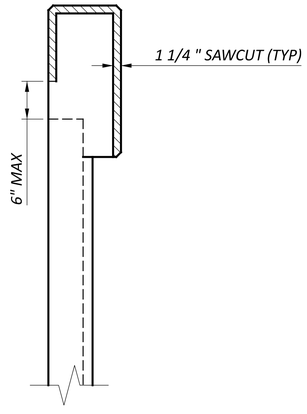
TYPICAL SECTION WALL 001B



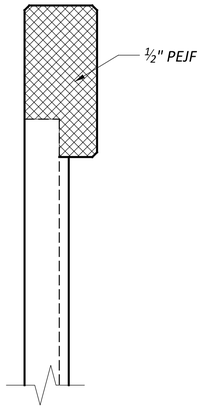
COPING EXPANSION JOINT



MSE WALL COPING DETAIL



COPING CONTRACTION JOINT DETAIL



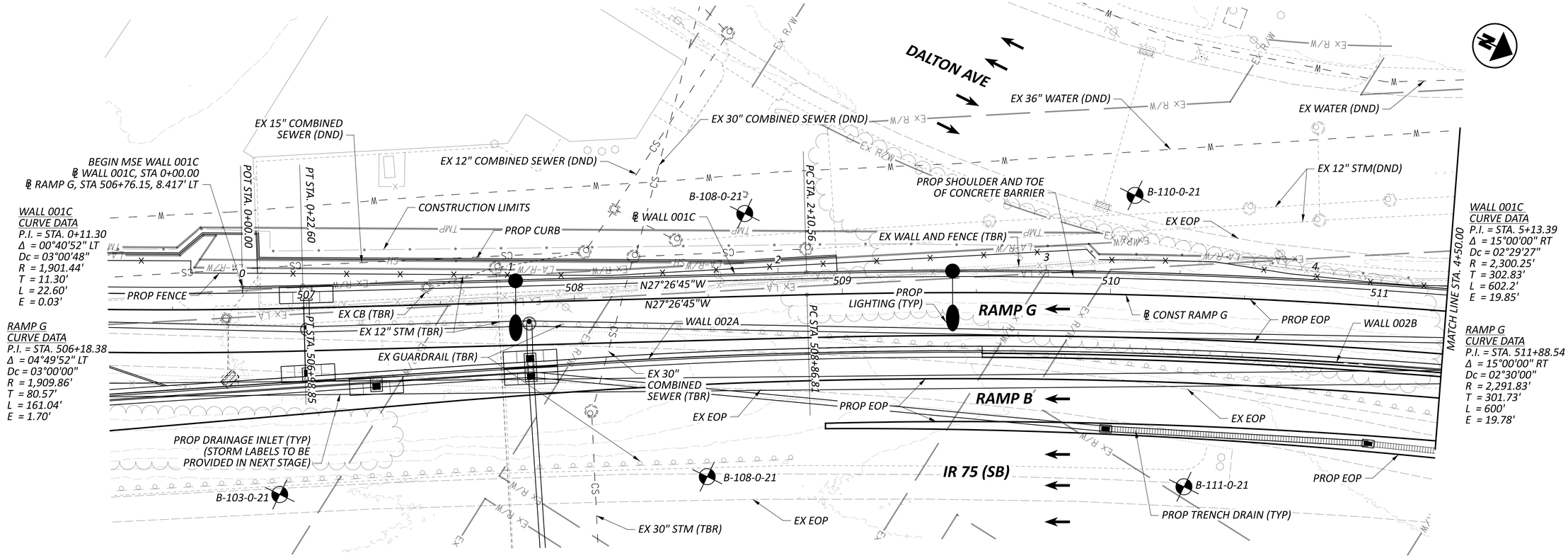
COPING EXPANSION JOINT DETAIL

WALL SECTIONS
RETAINING WALL NO 001B
ALONG IR 75 AND BANK STREET

SFN	N/A
DESIGN AGENCY	EMH&T
DESIGNER	AI
CHECKER	JGM
REVIEWER	CAS 06/21/24
PROJECT ID	114161
SUBSET	2
TOTAL	45
SHEET	P.339
TOTAL	463

HAM-75-1.95

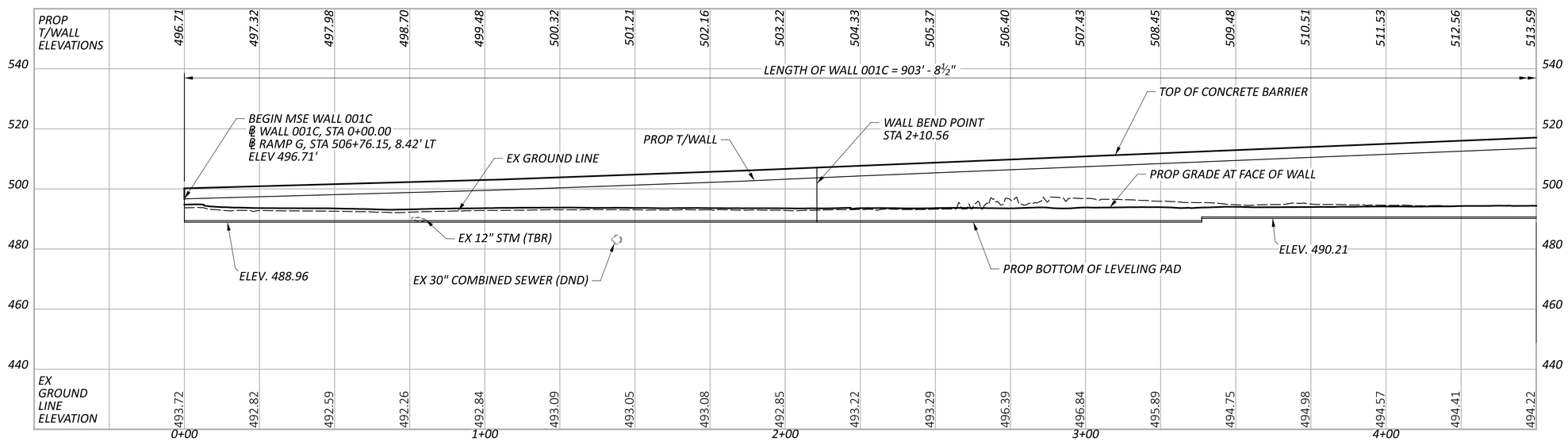
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PLAN

NOTES:

1. DIMENSIONS MEASURED ALONG BASELINE OF WALL.
2. NOTE TO REIVIEWER: WALL DRAINAGE DETAILS IN PLAN AND ELEVATION WILL BE PROVIDED IN STAGE 2.



PROFILE ALONG ℄ WALL 001C

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
RETAINING WALL NO 001C ALONG RAMP G
STA 0+00.00 TO STA 4+50.00

SFN N/A

DESIGN AGENCY EMH&T

DESIGNER	CHECKER
AI	JGM

REVIEWER CAS 06/21/24

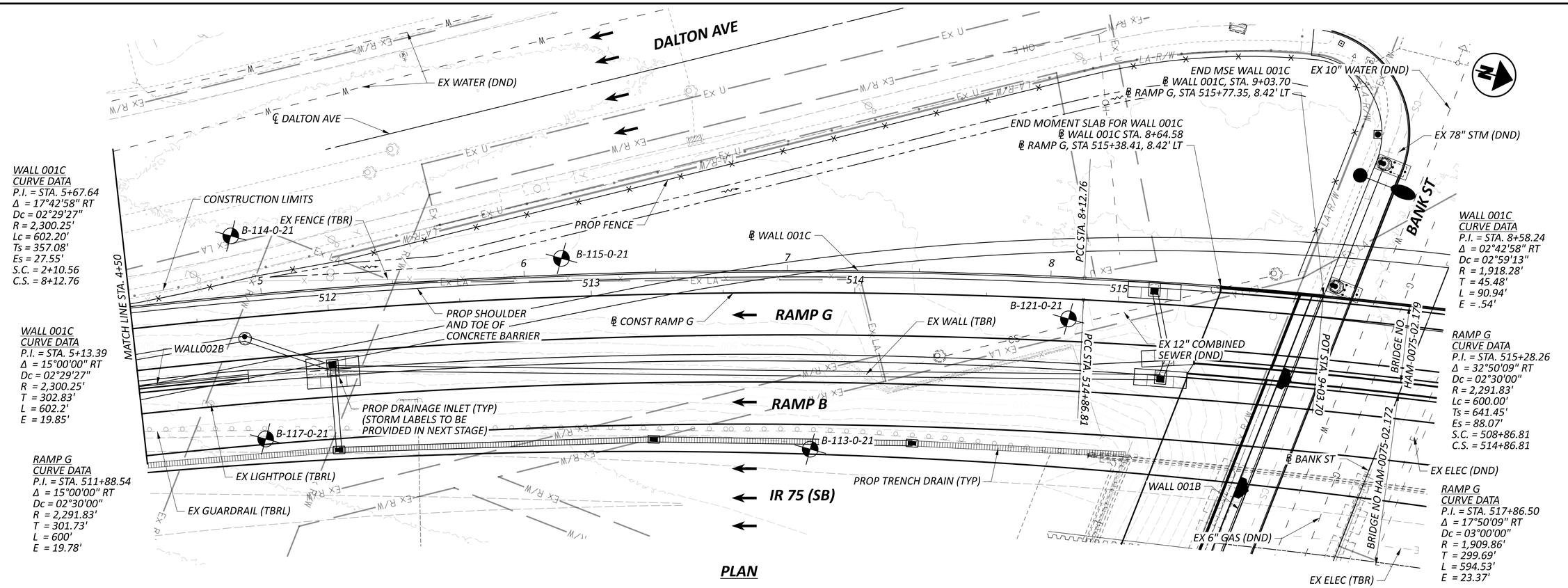
PROJECT ID 114161

SUBSET	TOTAL
3	45

SHEET	TOTAL
P.340	463

HAM-75-1.95

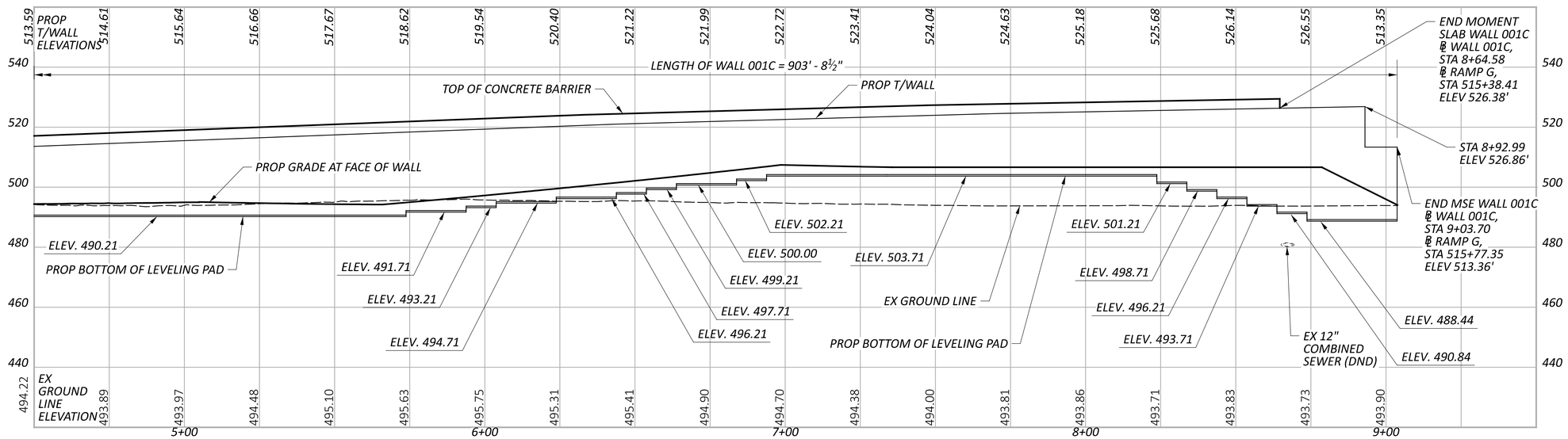
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PLAN

NOTES:

1. ALL DIMENSIONS MEASURED ALONG BASELINE OF WALL.
2. NOTE TO REIVIEWER: WALL DRAINAGE DETAILS IN PLAN AND ELEVATION WILL BE PROVIDED IN STAGE 2.



PROFILE ALONG ℄ WALL 001C

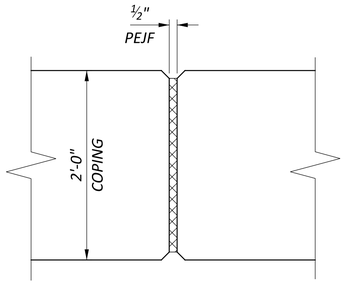
HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
RETAINING WALL NO 001C ALONG RAMP G
STA 4+50.00 TO END

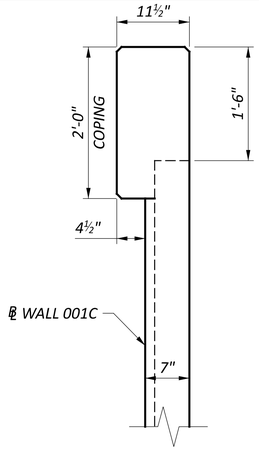
SFN	N/A
DESIGN AGENCY	EM H&T
DESIGNER	AI
CHECKER	JGM
REVIEWER	CAS 06/21/24
PROJECT ID	114161
SUBSET	4
TOTAL	45
SHEET	P.341
TOTAL	463

HAM-75-1.95

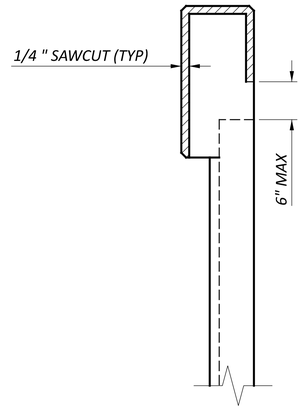
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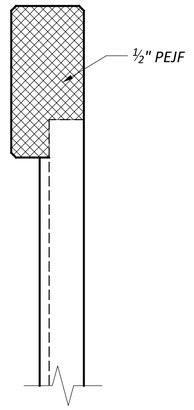
COPING EXPANSION JOINT



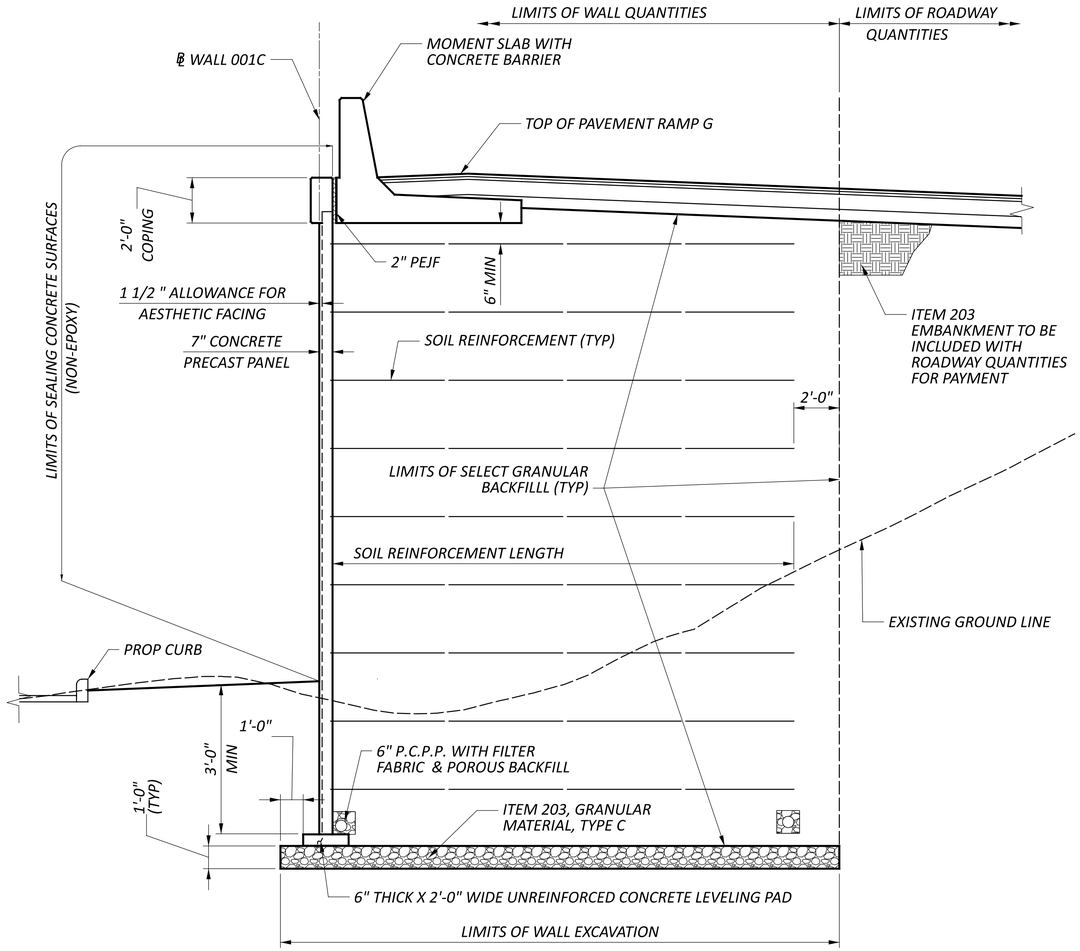
MSE WALL COPING



COPING CONTRACTION JOINTS

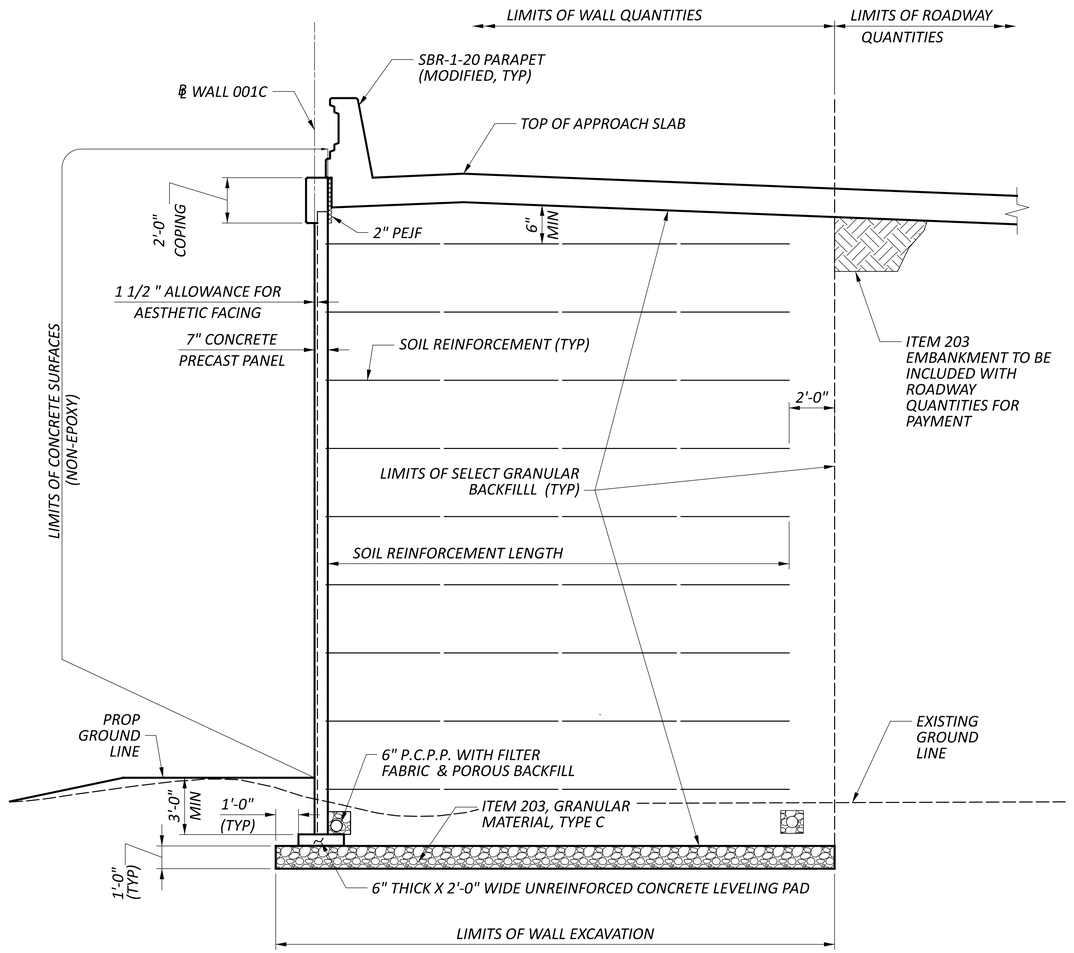


COPING EXPANSION JOINTS



TYPICAL SECTION WALL 001C

(APPLIES STA 0+00.00 TO STA 8+64.58)



TYPICAL SECTION WALL 001C

(APPLIES STA 8+64.58 TO STA 9+03.70)

WALL SECTIONS
RETAINING WALL NO 001C
ALONG WEST SIDE OF RAMP G

SFN
N/A

DESIGN AGENCY
EMH&T

DESIGNER	CHECKER
AI	JGM

REVIEWER
CAS 06/21/24

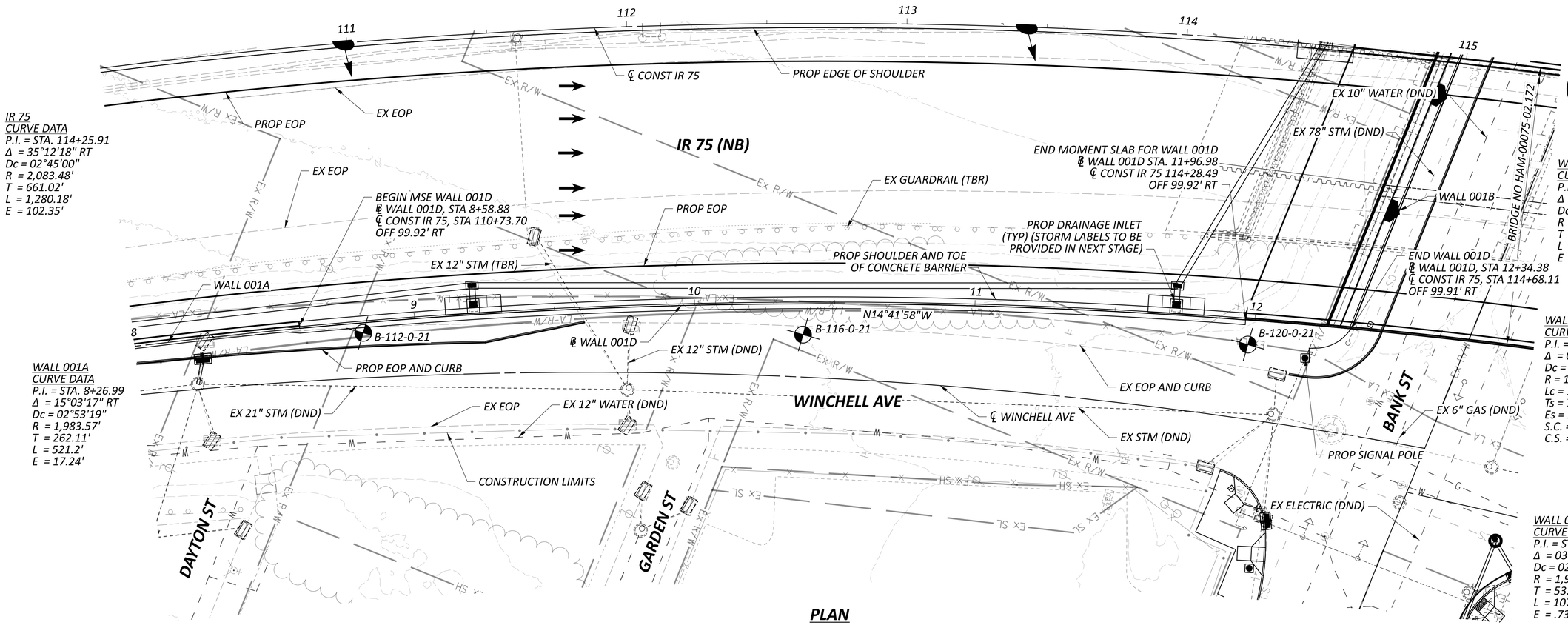
PROJECT ID
114161

SUBSET	TOTAL
5	45

SHEET	TOTAL
P.342	463

HAM-75-1.95

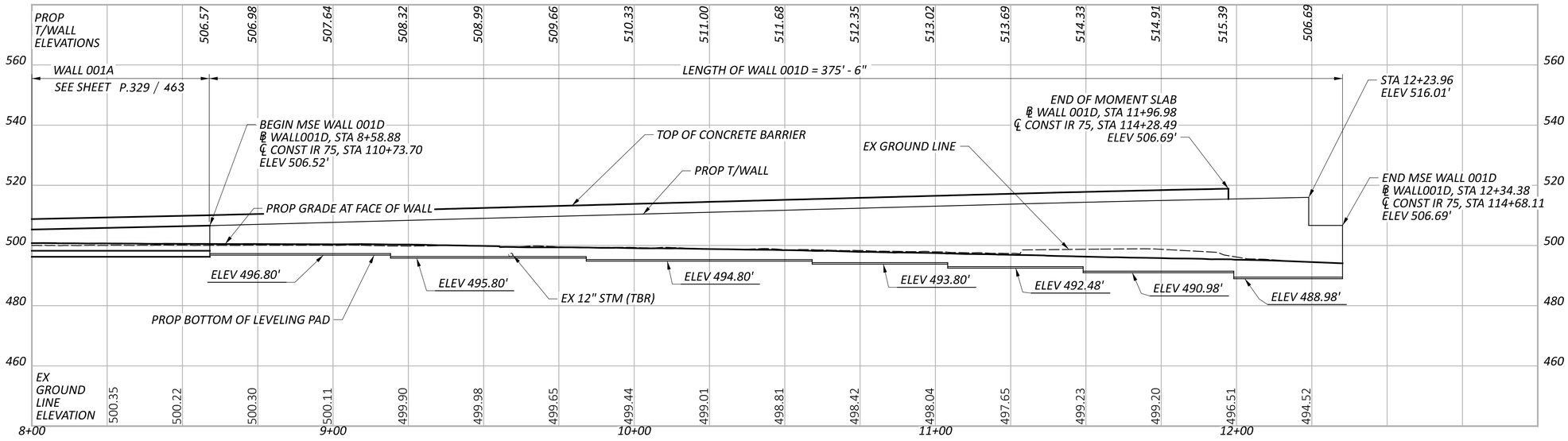
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pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Structures\Wall_001\Sheets\114161_WALL001C_WD001.dgn



PLAN

NOTES:

1. ALL DIMENSIONS ARE MEASURED ALONG BASELINE WALL 001D.
2. NOTE TO REVIEWER: WALL DRAINAGE DETAILS IN PLAN AND ELEVATION WILL PROVIDED AT STAGE 2.



PROFILE ALONG ℄ WALL 001D

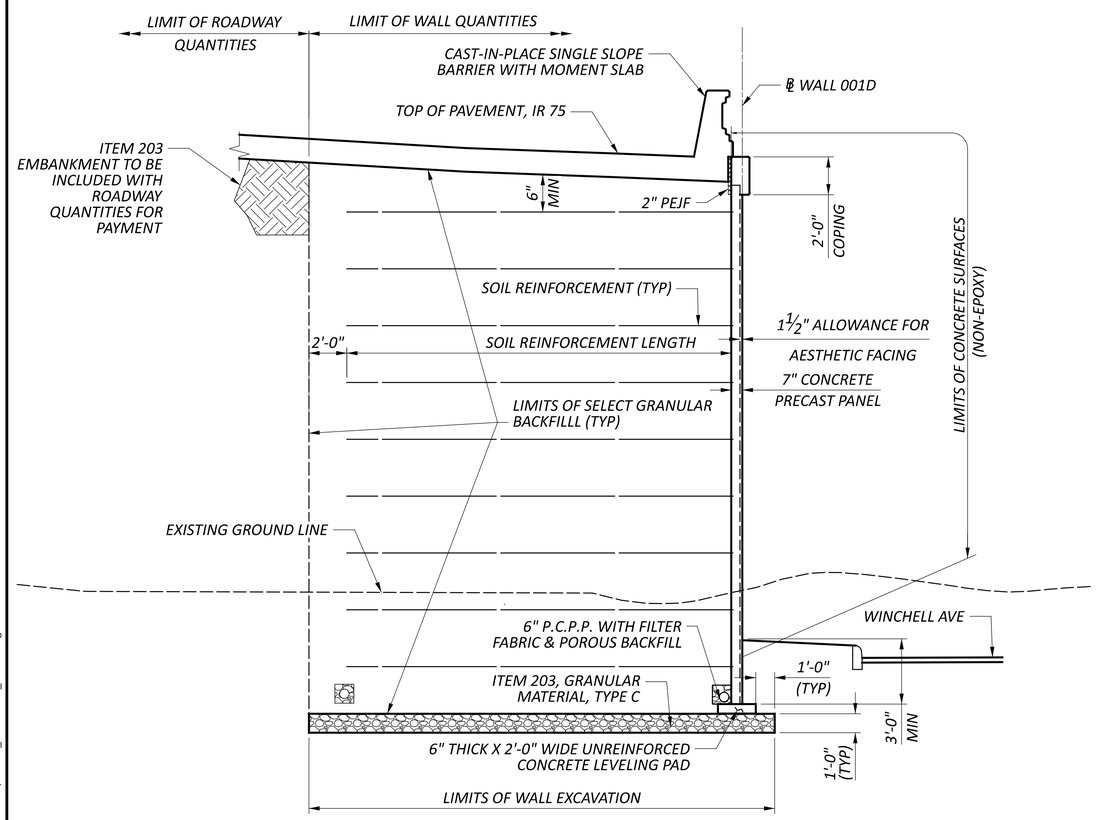
HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
RETAINING WALL NO 001D ALONG IR 75
STA 8+58.88 TO STA 12+34.38

SFN	N/A
DESIGN AGENCY	EMH&T
DESIGNER	AI
CHECKER	JGM
REVIEWER	CAS 06/21/24
PROJECT ID	114161
SUBSET	6
TOTAL	45
SHEET	P.343
TOTAL	463

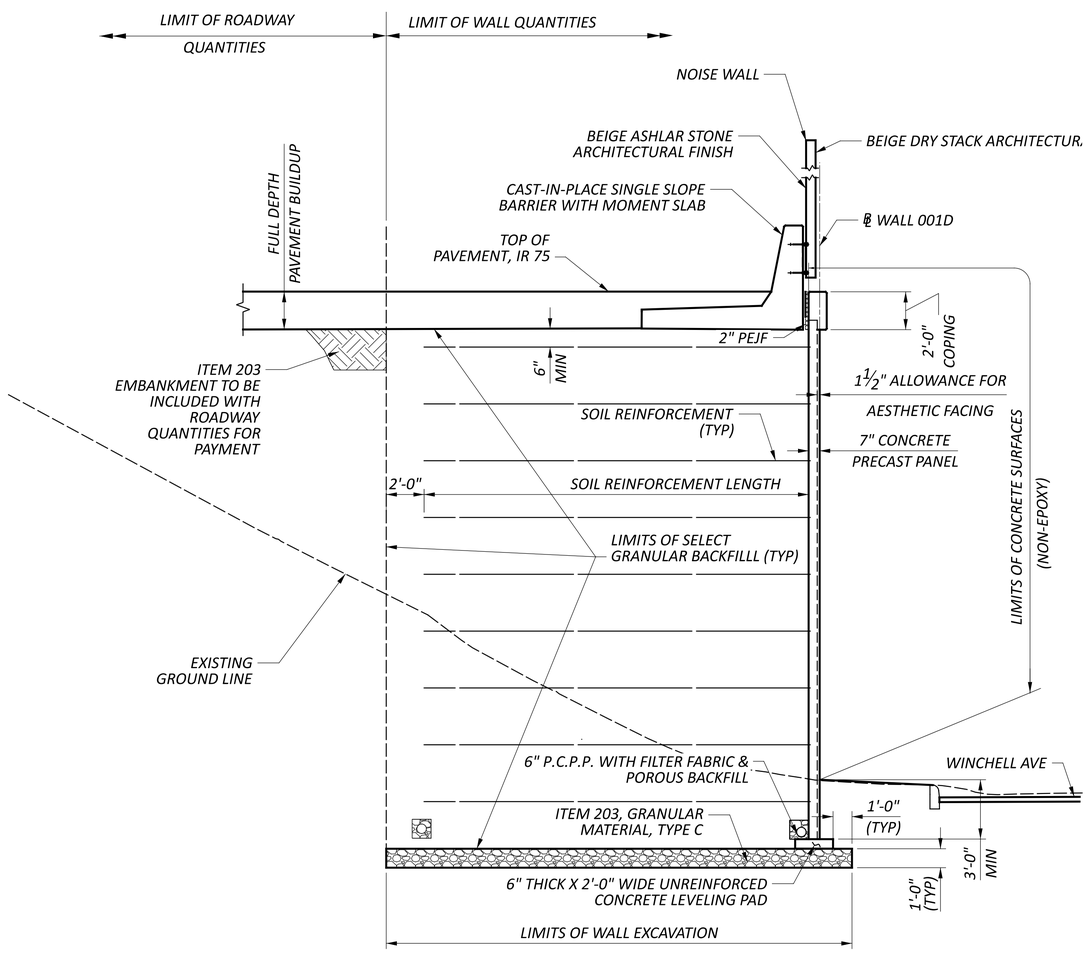
HAM-75-1.95

MODEL: 114161_WALL001D_WP001 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 1:28:44 PM USER: aibrahimkhail
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Structures\Wall_001\Sheets\114161_WALL001D_WP001.dgn



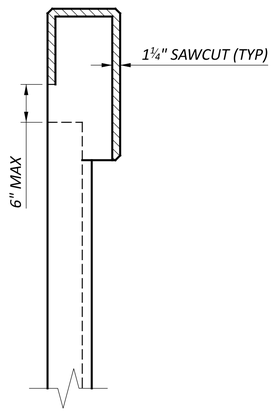
TYPICAL SECTION MSE PORTION OF WALL 001D (AT APPROACH SLAB)

(APPLIES STA 11+96.98 TO STA 12+34.38)

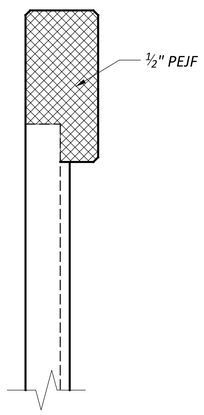


TYPICAL SECTION MSE PORTION OF WALL 001D

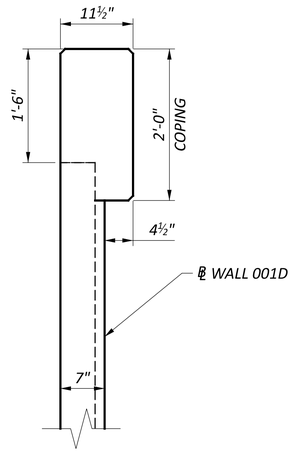
(APPLIES STA 8+59.03 TO STA 11+96.98)



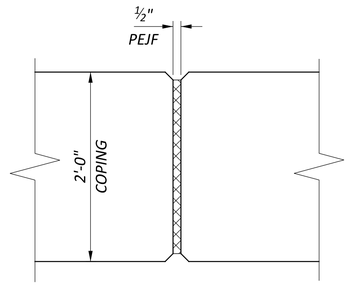
COPING CONTRACTION JOINT DETAIL



COPING EXPANSION JOINT DETAIL



MSE WALL COPING



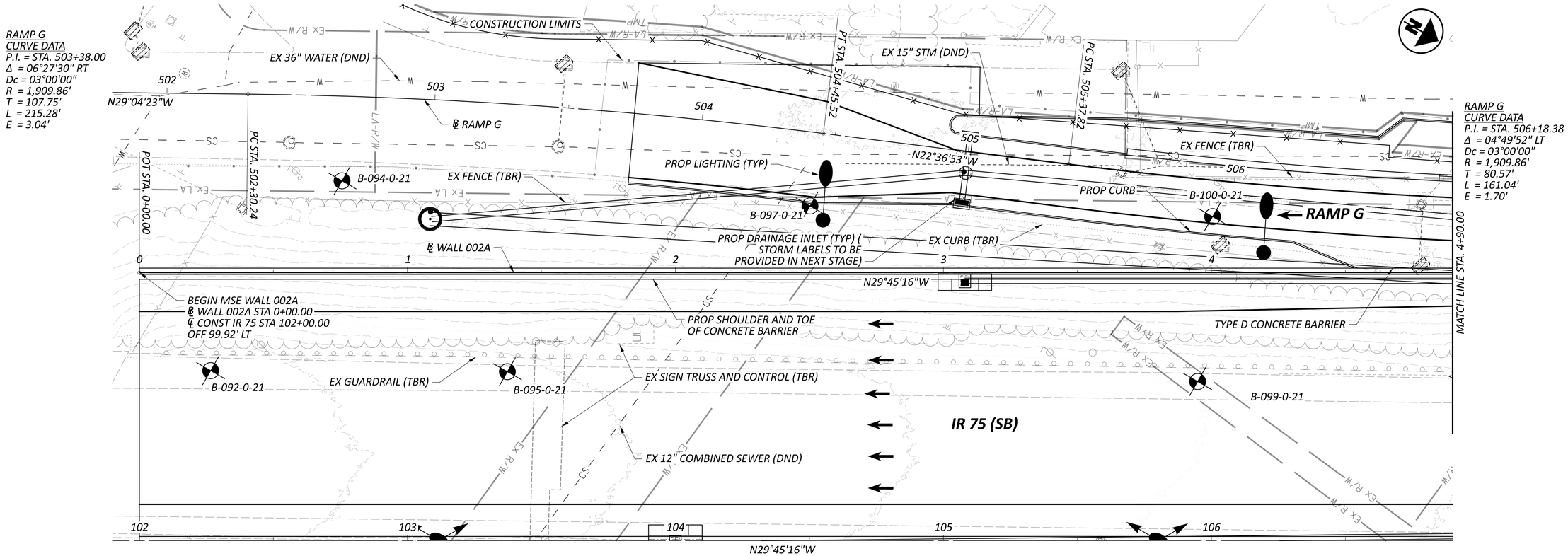
COPING EXPANSION JOINT

WALL SECTIONS
RETAINING WALL NO 001D
ALONG MAINLINE IR-75

SFN	N/A
DESIGN AGENCY	EMH&T
DESIGNER	AI
CHECKER	JGM
REVIEWER	CAS 06/21/24
PROJECT ID	114161
SUBSET	7
TOTAL	45
SHEET	P.344
TOTAL	463

HAM-75-1.95

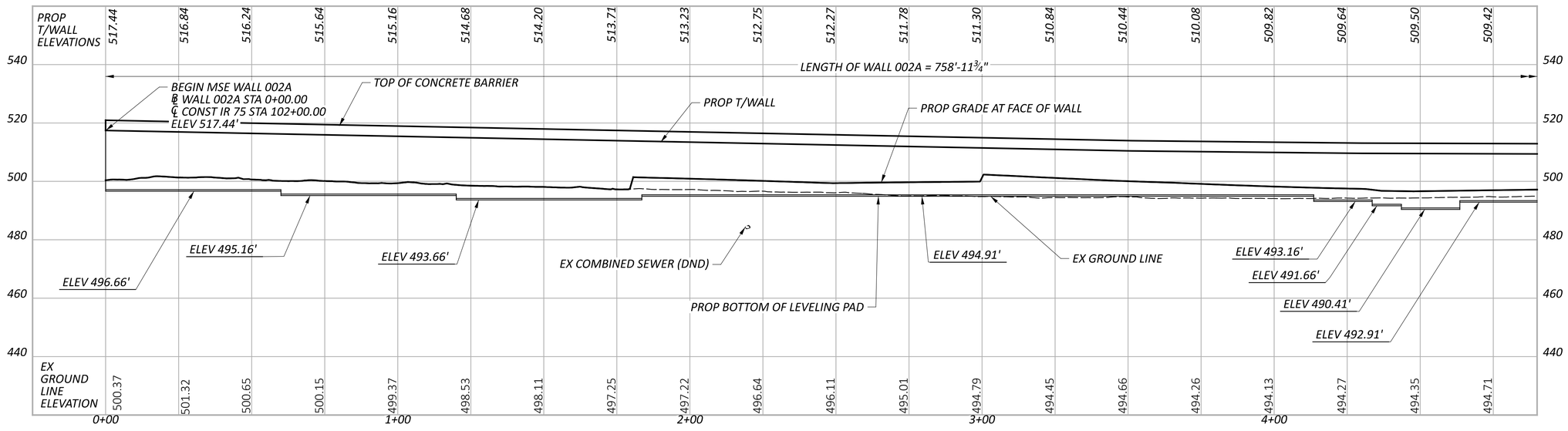
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PLAN

NOTES:

1. ALL DIMENSIONS ARE MEASURED ALONG BASELINE OF WALL.
2. NOTE TO REVIEWER: WALL DRAINAGE DETAILS IN PLAN AND ELEVATION WILL PROVIDED AT STAGE 2.



PROFILE ALONG ℄ WALL 002A

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
RETAINING WALL NO 002A ALONG IR-75
STA. 0+00.00 TO STA. 4+90.00

SFN N/A

DESIGN AGENCY E|M|H&T

DESIGNER	CHECKER
AI	JGM

REVIEWER CAS 06/21/24

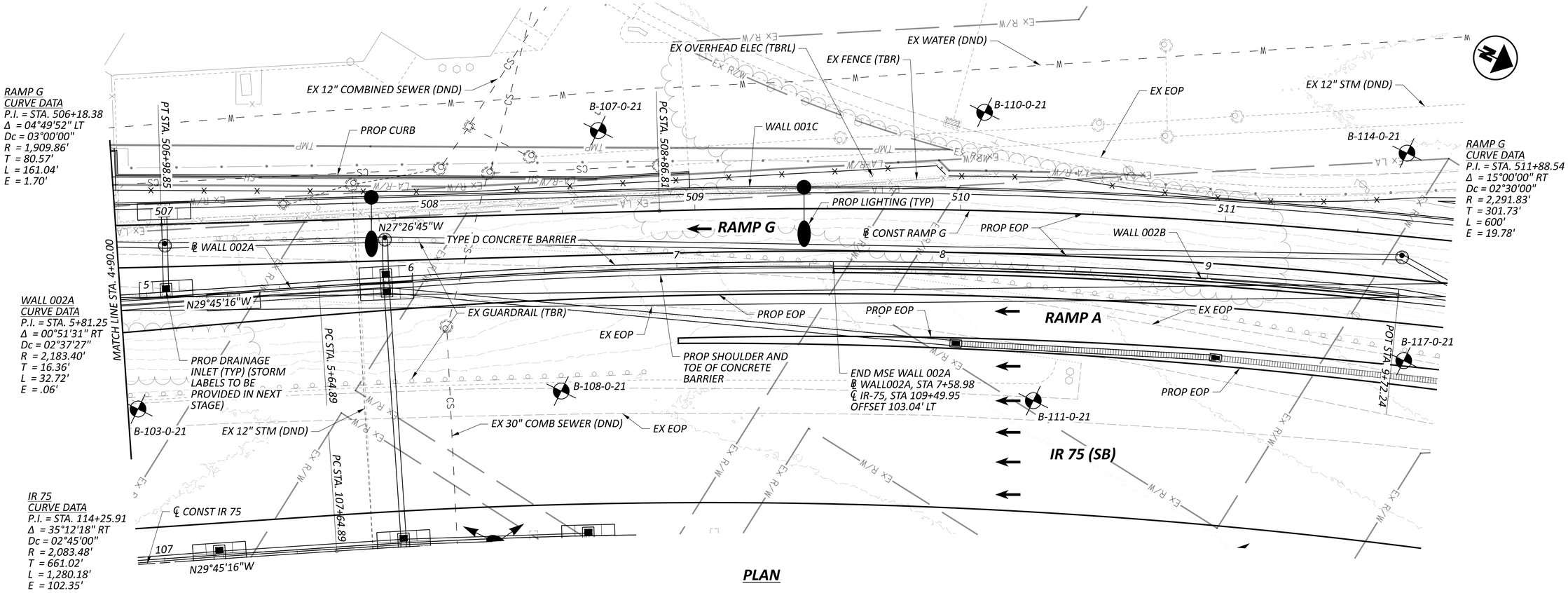
PROJECT ID 114161

SUBSET	TOTAL
8	45

SHEET	TOTAL
P.345	463

HAM-75-1.95

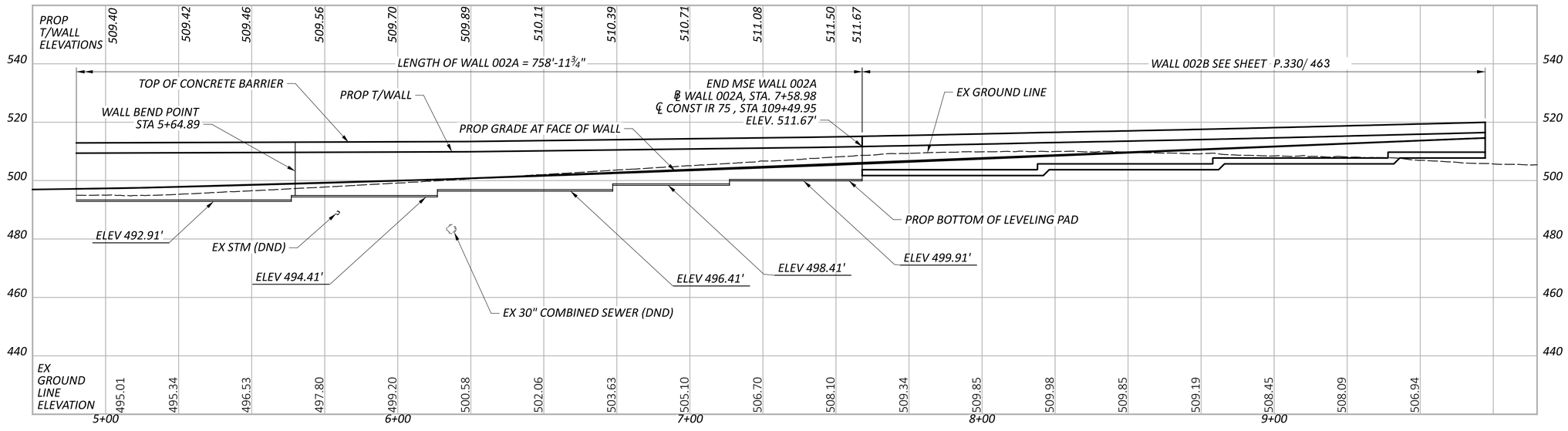
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PLAN

NOTES:

1. ALL DIMENSIONS ARE MEASURED ALONG BASELINE OF WALL.
2. NOTE TO REVIEWER: WALL DRAINAGE DETAILS IN PLAN AND ELEVATION WILL PROVIDED AT STAGE 2.



PROFILE ALONG ℄ WALL 002A

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
RETAINING WALL NO 002A ALONG MAINLINE IR 75
STA 4+90.00 TO STA 7+58.98

SFN N/A

DESIGN AGENCY EMH&T

DESIGNER	CHECKER
AI	JGM

REVIEWER CAS 06/21/24

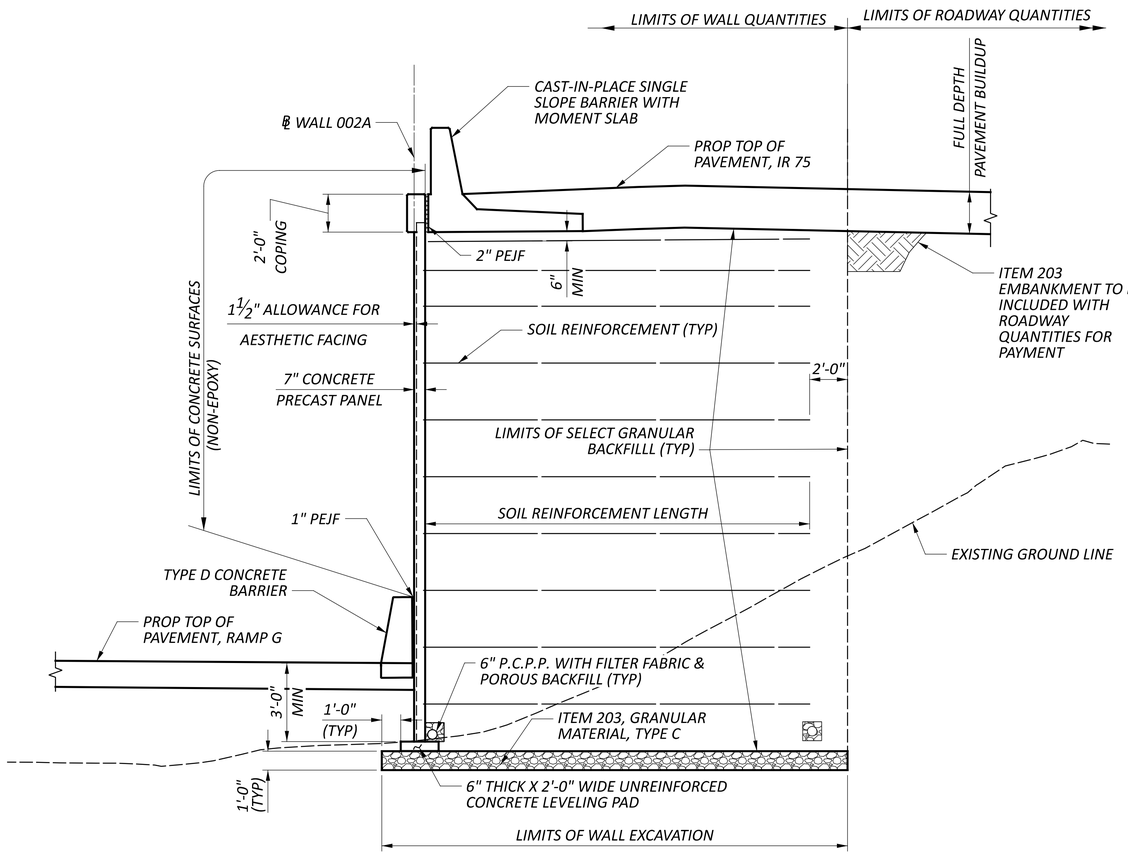
PROJECT ID 114161

SUBSET	TOTAL
9	45

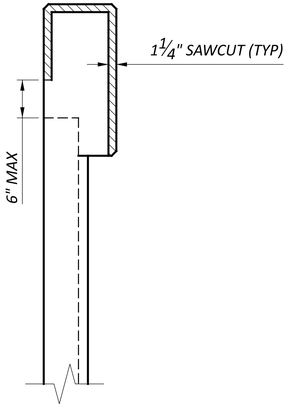
SHEET	TOTAL
P.346	463

HAM-75-1.95

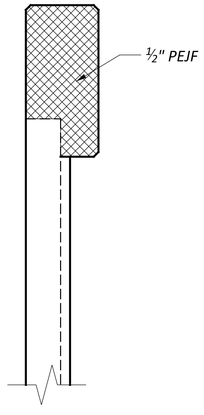
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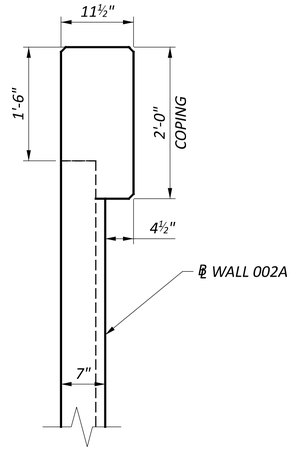
TYPICAL MSE SECTION OF WALL 002A



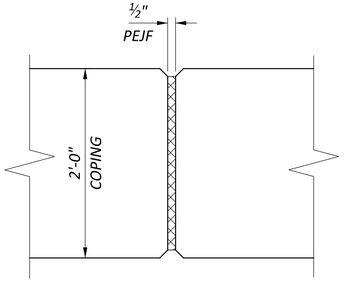
COPING CONTRACTION JOINT DETAIL



COPING EXPANSION JOINT DETAIL



MSE WALL COPING DETAIL



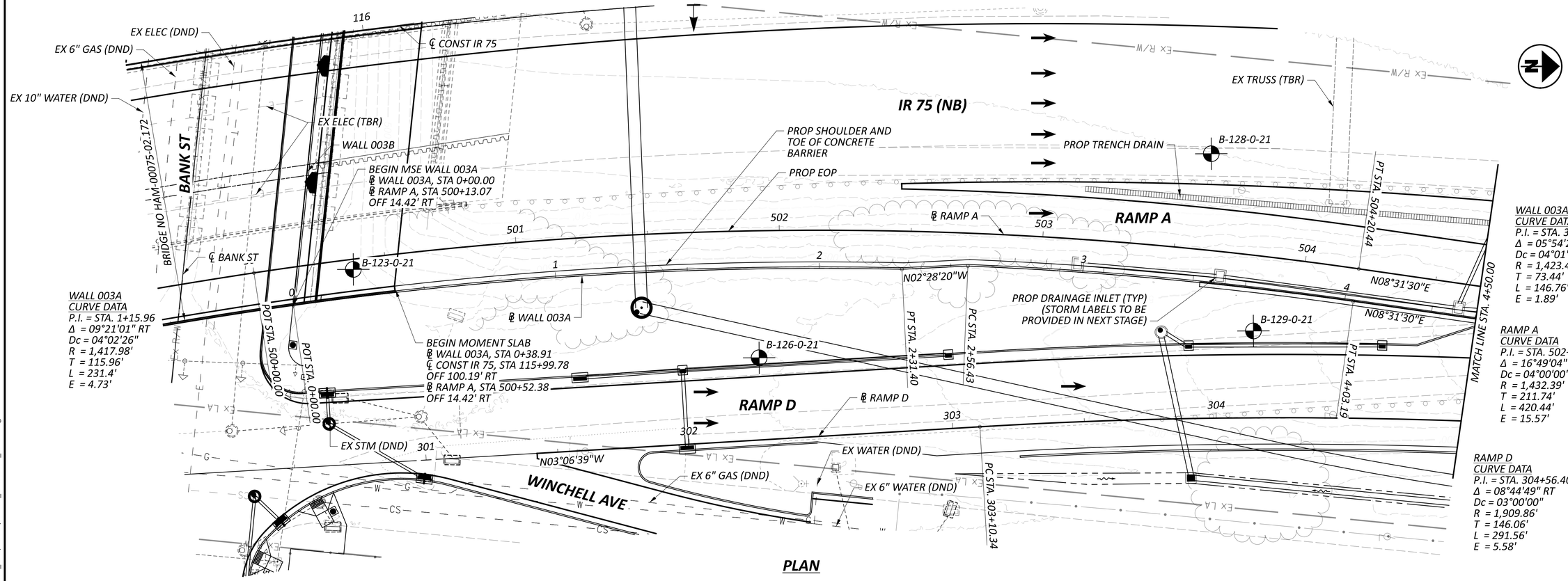
COPING EXPANSION JOINT

WALL SECTIONS
RETAINING WALL NO 002A
ALONG MAINLINE IR-75

SFN	N/A
DESIGN AGENCY	EMH&T
DESIGNER	AI
CHECKER	JGM
REVIEWER	CAS 06/21/24
PROJECT ID	114161
SUBSET	10
TOTAL	45
SHEET	P.347
TOTAL	463

HAM-75-1.95

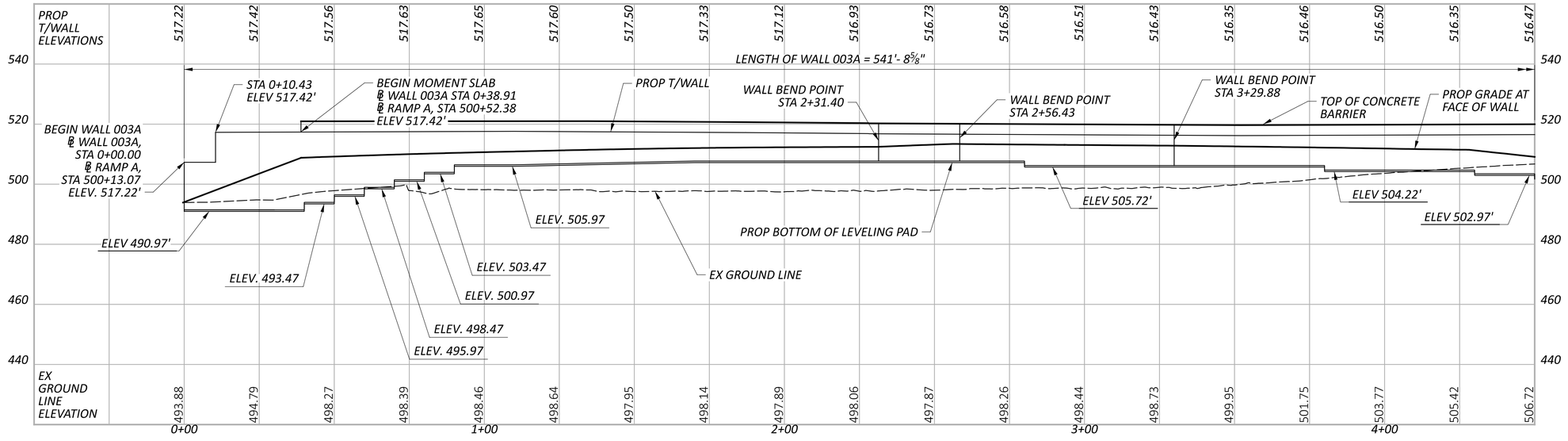
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pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Structures\Wall_002\Sheets\114161_WALL002A_WD001.dgn



PLAN

NOTES:

1. ALL DIMENSIONS ARE MEASURED ALONG BASELINE OF WALL.
2. NOTE TO REVIEWER: WALL DRAINAGE DETAILS IN PLAN AND ELEVATION WILL PROVIDED AT STAGE 2.



PROFILE ALONG ℄ WALL 003A

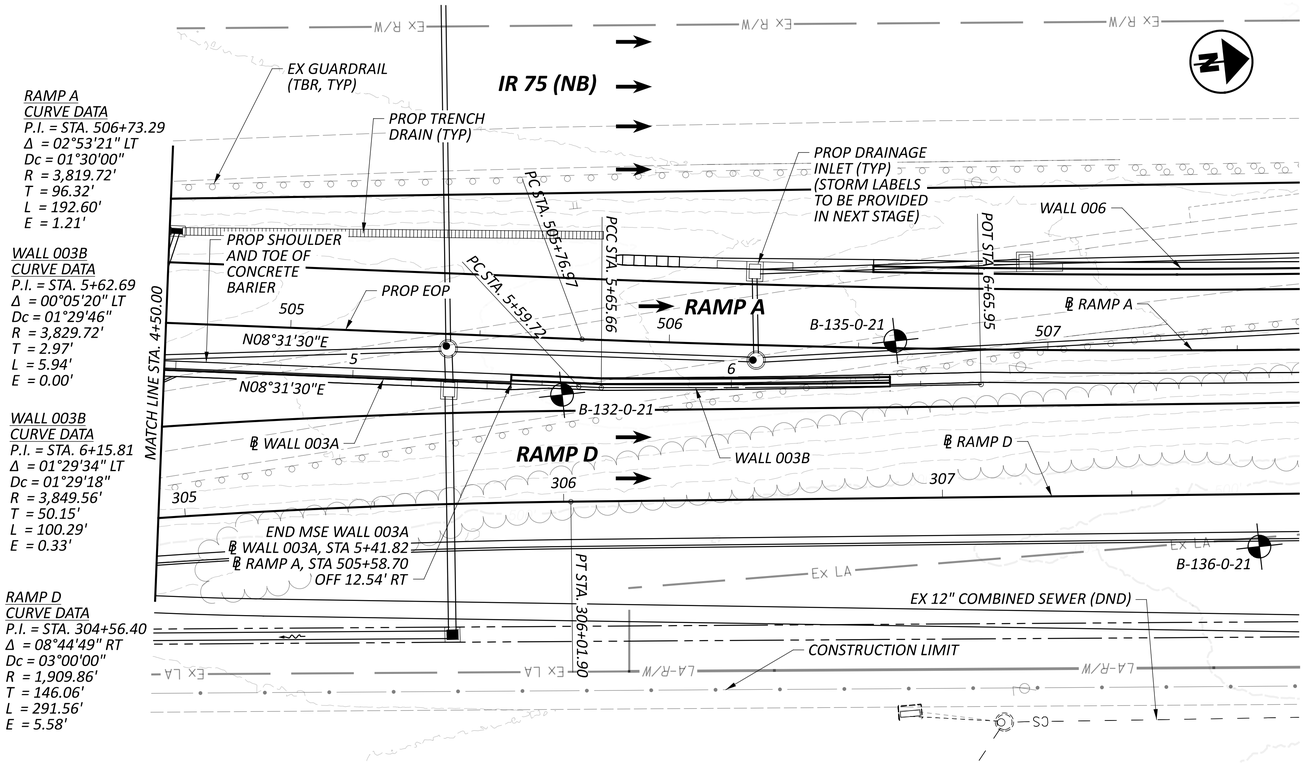
HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
RETAINING WALL NO 003A ALONG MAINLINE IR 75 AND RAMP A
STA 0+00.00 TO STA 4+50.00

SFN N/A
DESIGN AGENCY EMH&T
DESIGNER AI | CHECKER JGM
REVIEWER CAS 06/21/24
PROJECT ID 114161
SUBSET 11 | TOTAL 45
SHEET P.348 | TOTAL 463

HAM-75-1.95

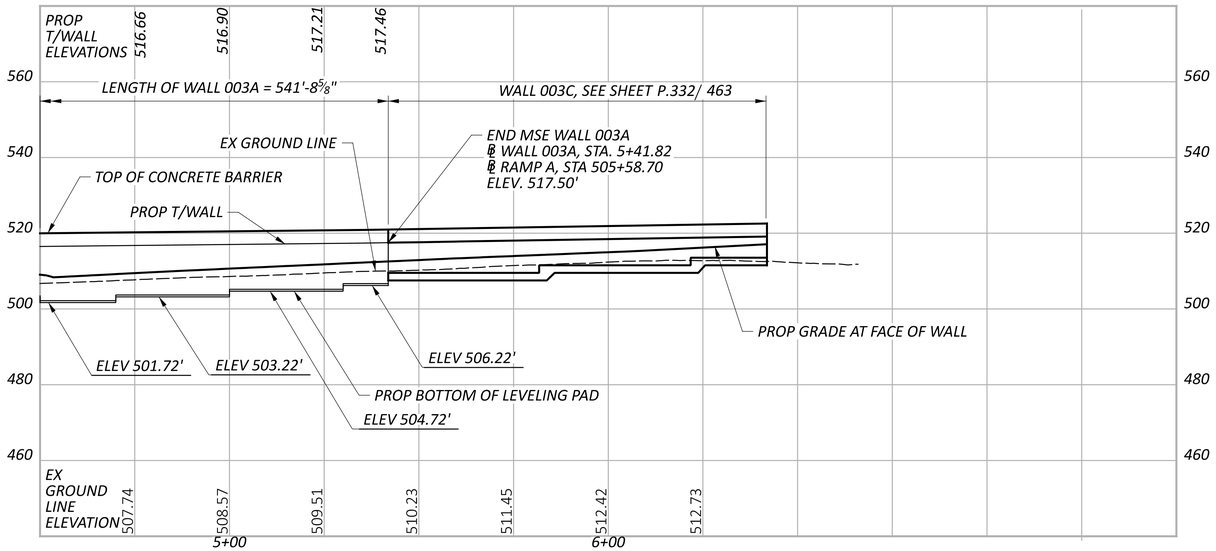
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pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\01-Engineering_EMHT\Structures\Wall_003\Sheets\114161_WALL003A_WP001.dgn



NOTES:

1. ALL DIMENSIONS ARE MEASURED ALONG BASELINE OF WALL.
2. NOTE TO REVIEWER: WALL DRAINAGE DETAILS IN PLAN AND ELEVATION WILL PROVIDED AT STAGE 2.

PLAN



PROFILE ALONG ℄ WALL 003A

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
RETAINING WALL NO 003A ALONG MAINLINE IR 75 AND RAMP A
STA 4+50.00 TO STA 5+41.82

SFN N/A

DESIGN AGENCY EMH&T

DESIGNER	CHECKER
AI	JGM

REVIEWER CAS 06/21/24

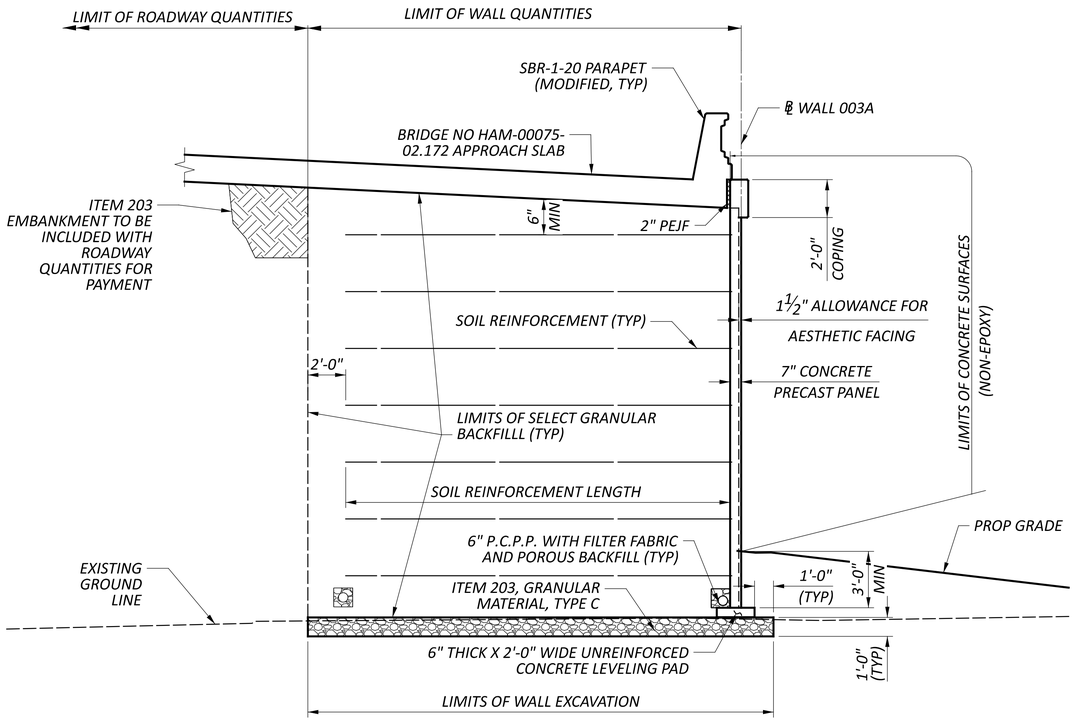
PROJECT ID 114161

SUBSET	TOTAL
12	45

SHEET	TOTAL
P.349	463

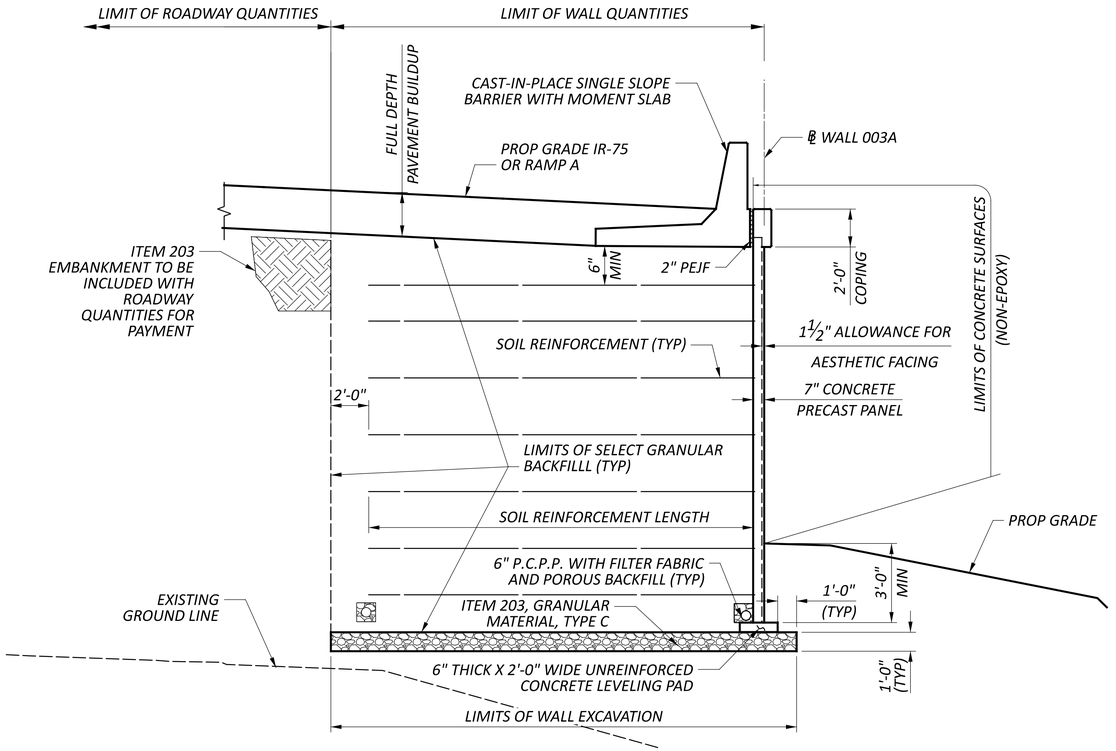
HAM-75-1.95

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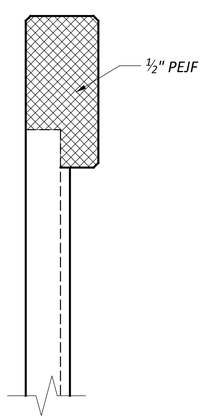
TYPICAL MSE SECTION OF WALL 003A

(APPLIES FROM STA 0+00.00 TO STA 0+38.91)

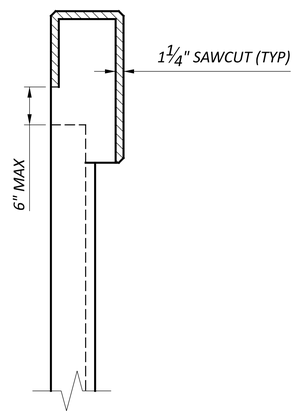


TYPICAL MSE SECTION OF WALL 003A

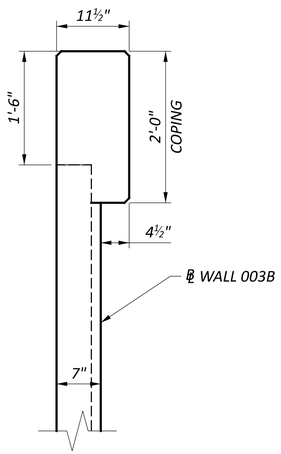
(APPLIES STA FROM STA 0+38.91 TO STA 5+41.82)



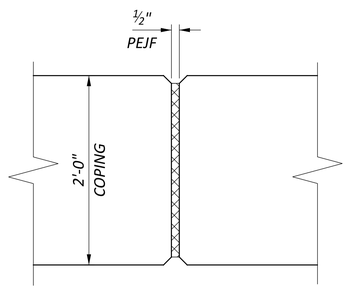
COPING EXPANSION JOINT DETAIL



COPING CONTRACTION JOINT DETAIL



MSE WALL COPING DETAIL



COPING EXPANSION JOINT

WALL SECTIONS
RETAINING WALL NO 003A
ALONG MAINLINE IR-75

SFN N/A

DESIGN AGENCY E|M|H&T

DESIGNER	CHECKER
AI	JGM

REVIEWER CAS 06/21/24

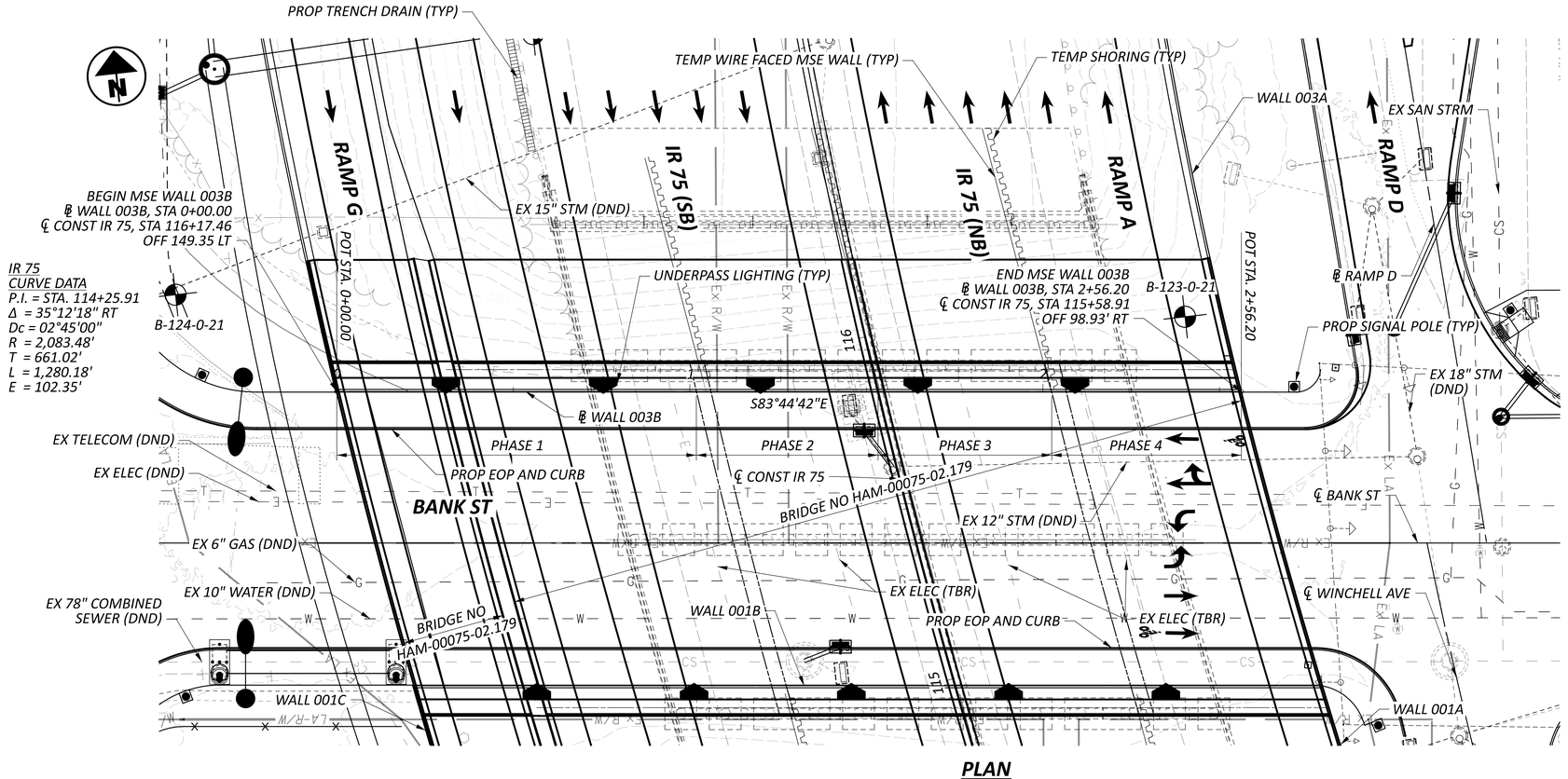
PROJECT ID 114161

SUBSET	TOTAL
13	45

SHEET	TOTAL
P.350	463

HAM-75-1.95

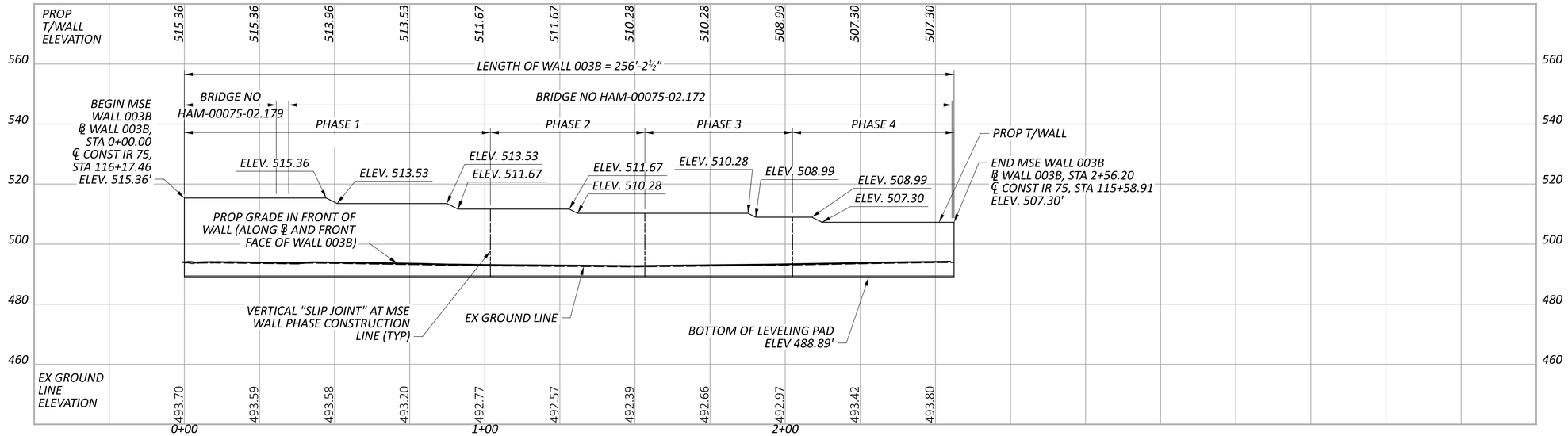
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PLAN

NOTES:

1. ALL DIMENSIONS ARE MEASURED ALONG BASELINE OF WALL.
2. NOTE TO REVIEWER: WALL DRAINAGE DETAILS IN PLAN AND ELEVATION WILL PROVIDED AT STAGE 2.



PROFILE ALONG ℄ WALL 003B

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
RETAINING WALL NO 003B ALONG IR 75 AND BANK STREET
STA 0+00.00 TO STA 2+56.20

SFN N/A

DESIGN AGENCY EMH&T

DESIGNER	CHECKER
AI	JGM

REVIEWER CAS 06/21/24

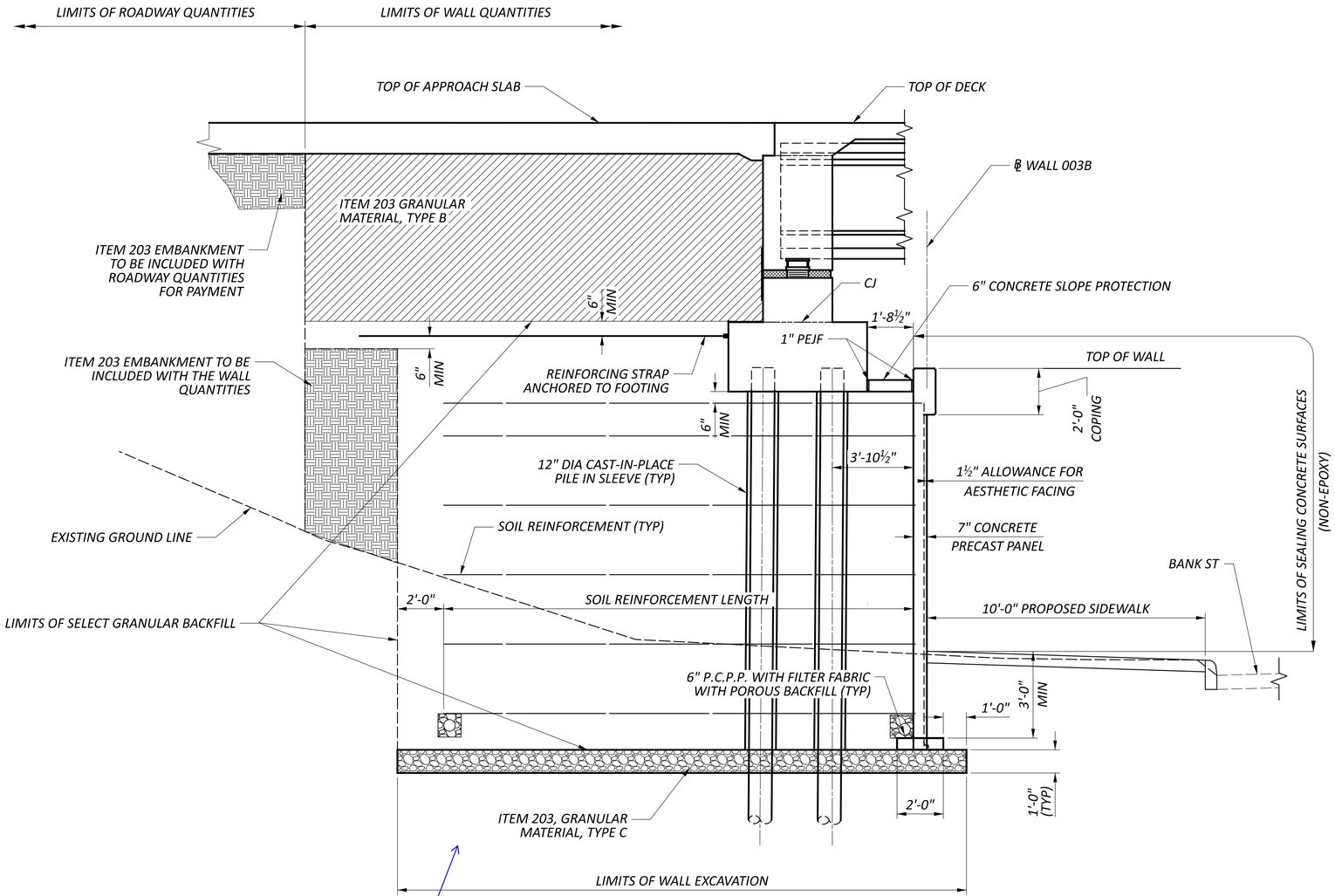
PROJECT ID 114161

SUBSET	TOTAL
14	45

SHEET	TOTAL
P.351	463

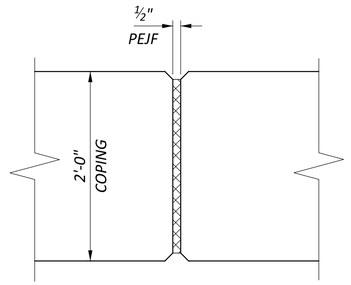
HAM-75-1.95

MODEL: 114161_WALL003B_WP001 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 1:32:21 PM USER: aibrahimkhail
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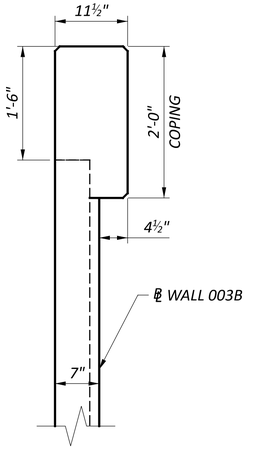


TYPICAL SECTION WALL 003B

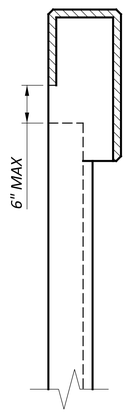
Wall sections that have stone column ground improvements recommended are to be shown in stage 2. Refer to geotechnical memos for affected walls. Typical comment for all walls.



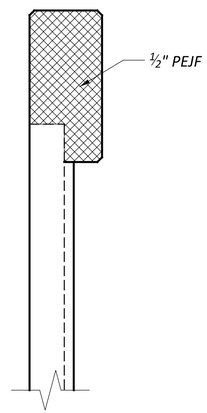
COPING EXPANSION JOINT



MSE WALL COPING DETAIL



COPING CONTRACTION JOINT DETAIL



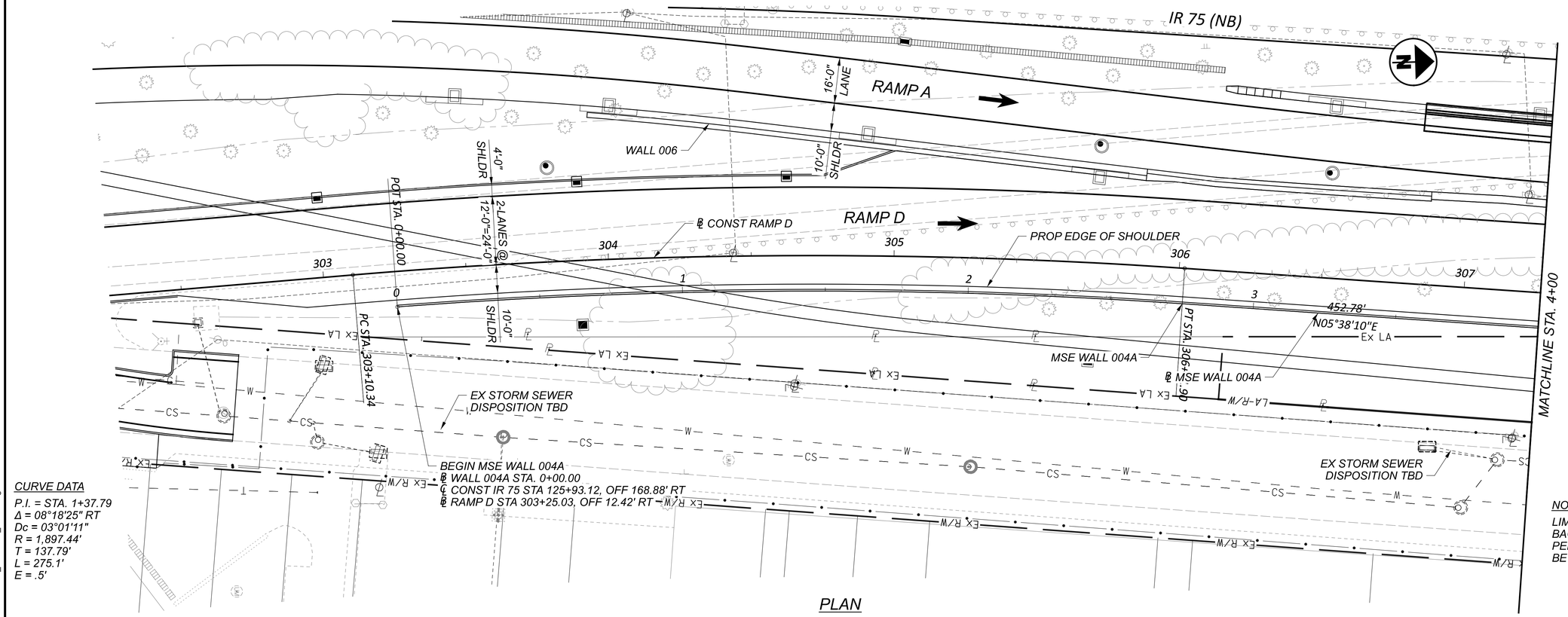
COPING EXPANSION JOINT DETAIL

WALL SECTIONS
RETAINING WALL NO 003B
ALONG IR 75 AND BANK STREET

SFN	N/A
DESIGN AGENCY	EMH&T
DESIGNER	AI
CHECKER	JGM
REVIEWER	CAS 06/21/24
PROJECT ID	114161
SUBSET	15
TOTAL	45
SHEET	P.352
TOTAL	463

HAM-75-1.95

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 1:32:45 PM USER: albrahimkhail
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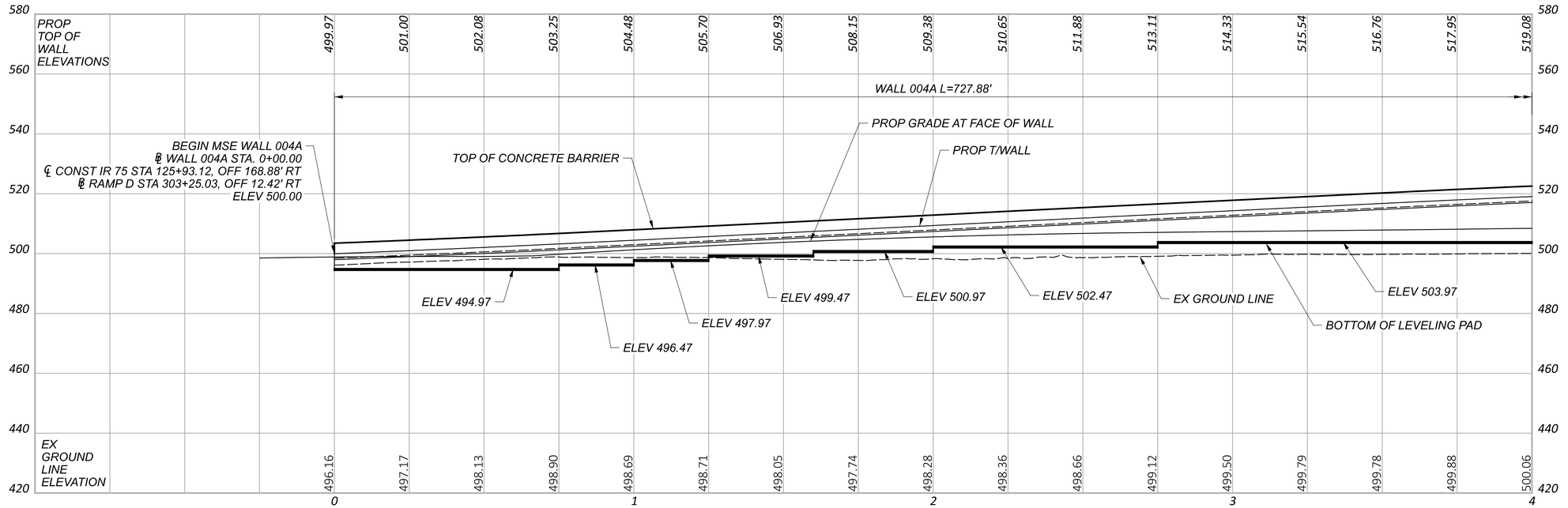
PLAN

CURVE DATA

P.I. = STA. 1+37.79
Δ = 08°18'25" RT
Dc = 03°01'11"
R = 1,897.44'
T = 137.79'
L = 275.1'
E = .5'

NOTE TO REVIEWER

LIMITS OF SELECT GRANULAR BACKFILL AND WALL DRAINAGE, PER BDM SECTION 201.4.1 WILL BE SHOWN AT STAGE 2.



PROFILE ALONG ℄ WALL 004A

WALL 4A PLAN AND ELEVATION (1 OF 2)
MSE WALL NO. 004A, ALONG RAMP D
STA 0+00.00 TO STA 4+00.00

SFN
N/A

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
MTO	SAT

REVIEWER
EFD 06/21/24

PROJECT ID
114161

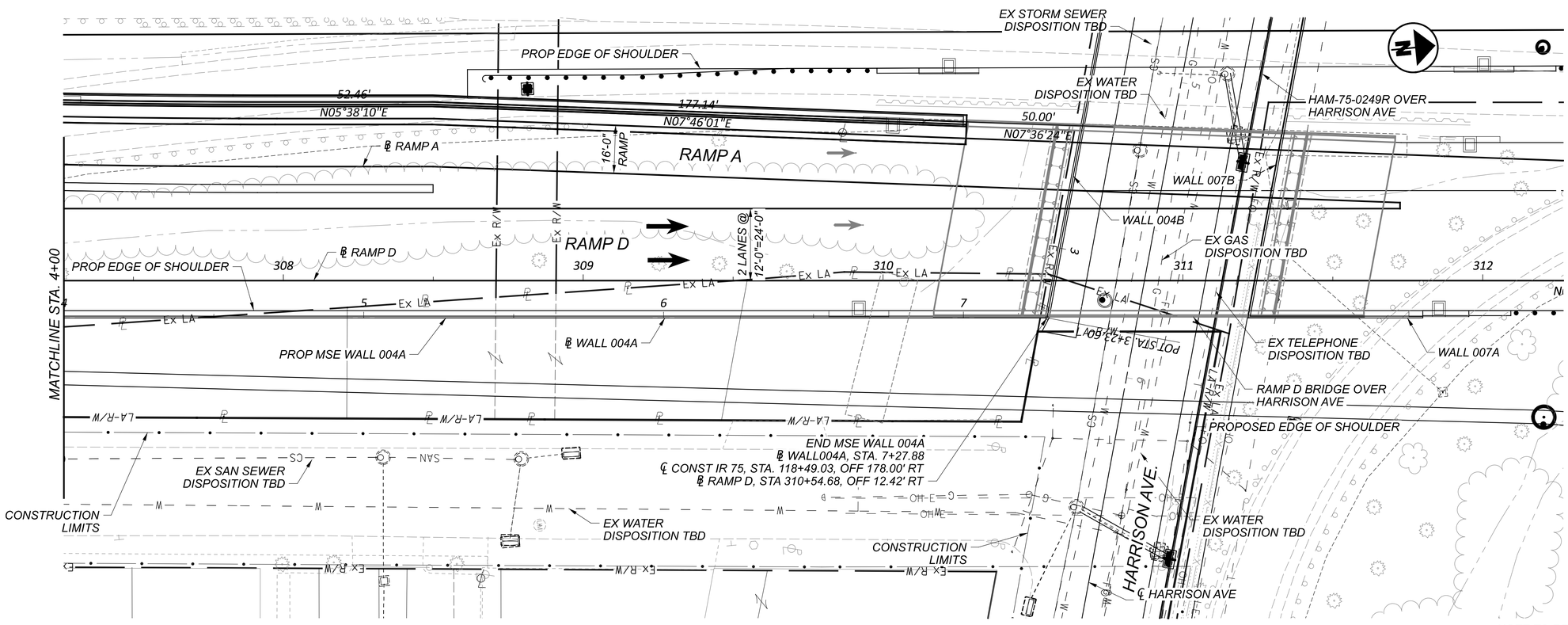
SUBSET	TOTAL
16	45

SHEET	TOTAL
P.353	463

HAM-75-1.95

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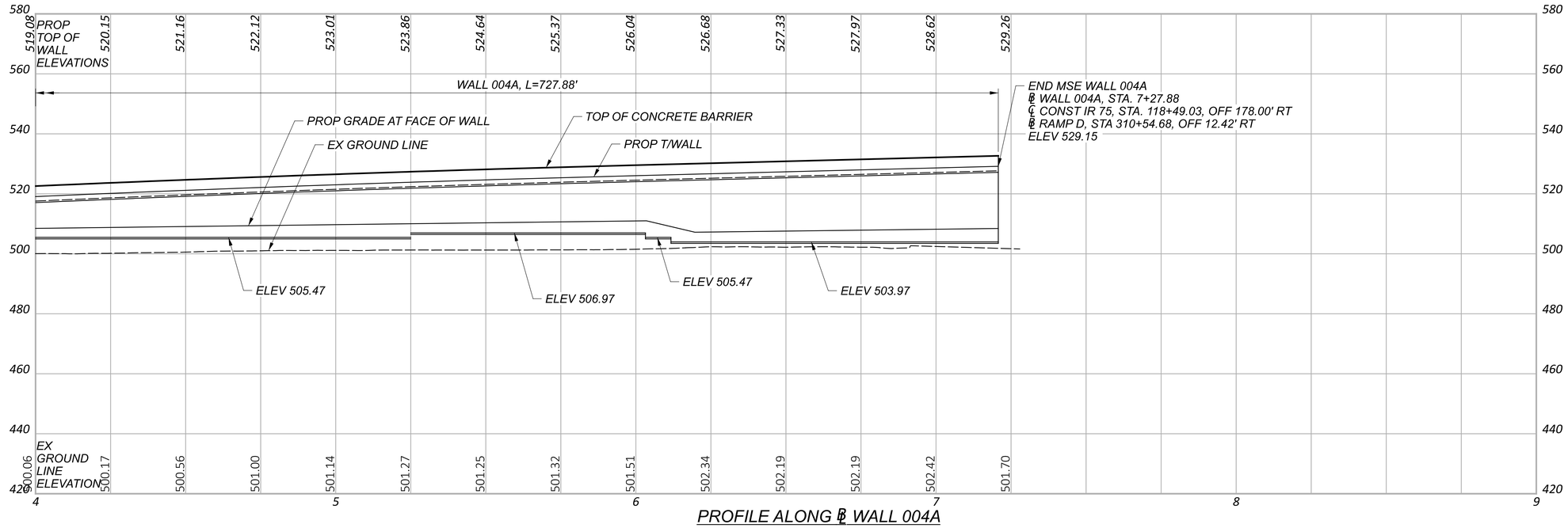
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PLAN

NOTE TO REVIEWER

LIMITS OF SELECT GRANULAR BACKFILL AND WALL DRAINAGE, PER BDM SECTION 201.4.1 WILL BE SHOWN AT STAGE 2.



PROFILE ALONG ℄ WALL 004A

PLAN AND ELEVATION (2 OF 2)
MSE WALL NO. 004A, ALONG RAMP D
STA 4+00.00 TO STA 7+27.88

SFN N/A

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
MTO	SAT

REVIEWER EFD 06/21/24

PROJECT ID 114161

SUBSET	TOTAL
17	45

SHEET	TOTAL
P.354	463

HAM-75-1.95

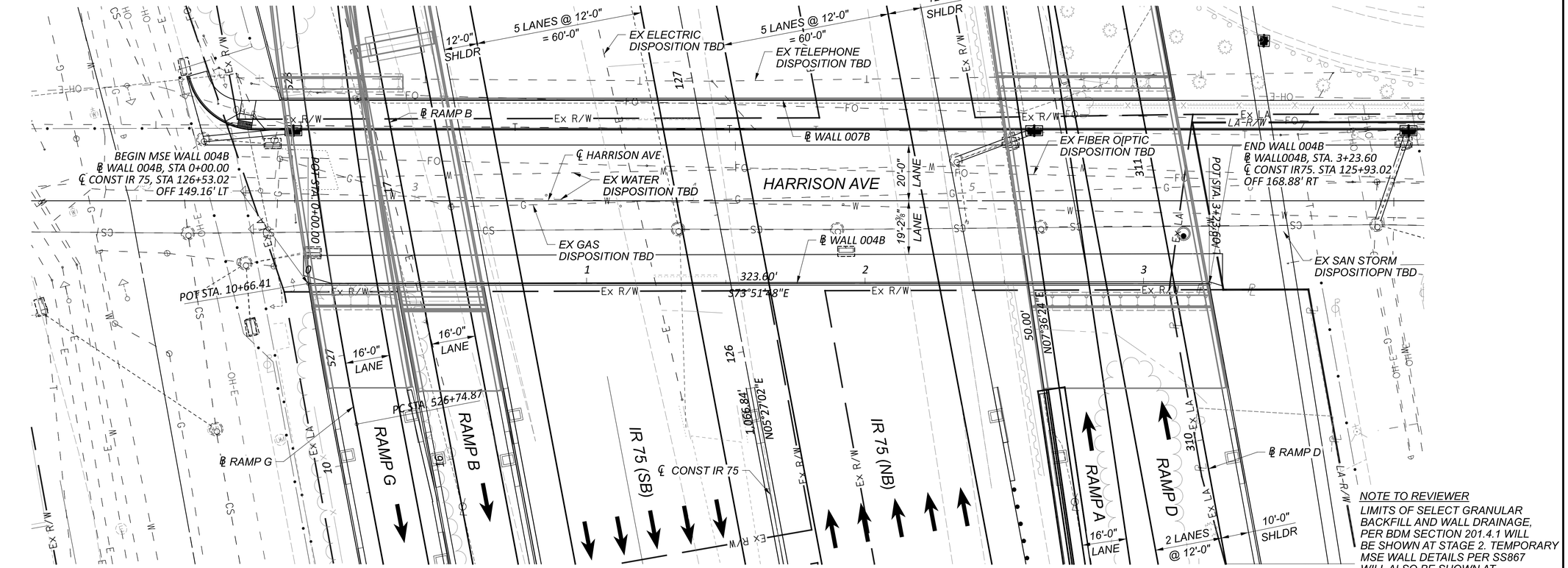
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SUBMITTAL: SUB_STG

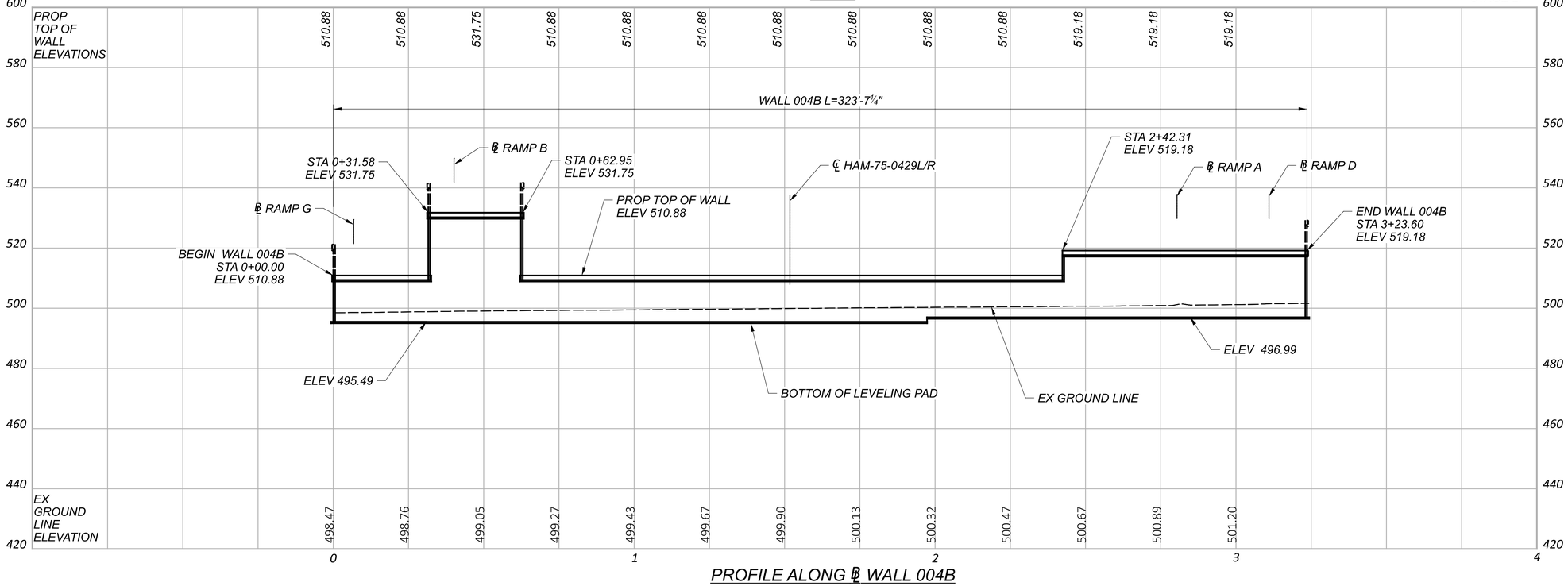
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PENTABLE: 114161_BW.tbl

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PLAN



PROFILE ALONG ℄ WALL 004B

NOTE TO REVIEWER
LIMITS OF SELECT GRANULAR BACKFILL AND WALL DRAINAGE, PER BDM SECTION 201.4.1 WILL BE SHOWN AT STAGE 2. TEMPORARY MSE WALL DETAILS PER SS867 WILL ALSO BE SHOWN AT STAGE 2.

PLAN AND PROFILE
MSE WALL NO. 004B, ALONG HARRISON AVE
STA 0+00.00 TO STA 3+23.60

SFN N/A

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 300
Columbus, OH 43231

DESIGNER	CHECKER
MTO	SAT

REVIEWER EFD 06/21/24

PROJECT ID 114161

SUBSET	TOTAL
18	45

SHEET	TOTAL
P.355	463

HAM-75-1.95

PENTABLE SUBSET: 1 SUBMITTAL: SUB_STG PLOT DRIVER: OHDOT_PDF.pltcfg

MODEL: Wall 4B - Wall 4B [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:08:49 PM USER: atony
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161402-Engineering_GannettFleming\Structures\Wall_004\Sheets\114161_WALL004_WP003.dgn

PENTABLE: 114161_BW.tbl

CURVE DATA
P.I. = STA. 2+10.87
Δ = 12°32'46" RT
Dc = 02°59'13"
R = 1,918.28'
T = 210.87'
L = 420.05'
E = 11.56'

BANK ST BRIDGE
HAM-00075-02.179

BEGIN MSE WALL 004C
℄ WALL004, STA 0+00.00
℄ RAMP G, STA 516+63.13, OFF 8.42' LT

EX STORM SEWER DISPOSITION TBD
EX WATER DISPOSITION TBD
EX SAN SEWER DISPOSITION TBD
EX TELECOM DISPOSITION TBD
EX TELEPHONE DISPOSITION TBD
CONST LIMIT
MSE WALL 004C
℄ WALL 004C
PROP SHOULDER
℄ RAMP G
RAMP G
℄ RAMP B
RAMP B
PROP SHOULDER
EX STORM SEWER DISPOSITION TBD
WALL 005B
IR 75 (SB)
6'-0" SHLDR
16'-0" LANE
16'-0" LANE
MATCH LINE STA. 5+00
AT STA. 5+81.34
AT STA. 10+96.37
BANK ST STA. 0+00.00
HOT STA. 8+00.00

NOTE TO REVIEWER
LIMITS OF SELECT GRANULAR BACKFILL AND WALL DRAINAGE, PER BDM SECTION 201.4.1 WILL BE SHOWN AT STAGE 2.

PLAN

PROP TOP OF WALL ELEVATIONS: 527.83 | 527.98 | 528.08 | 528.14 | 528.15 | 528.12 | 528.04 | 527.92 | 527.75 | 527.53 | 527.28 | 527.02 | 526.76 | 526.49 | 526.23 | 525.97 | 525.69 | 525.41 | 525.02 | 524.75 | 524.49

EX GROUND LINE ELEVATIONS: 493.72 | 493.92 | 493.11 | 493.83 | 494.65 | 494.83 | 494.95 | 495.05 | 495.17 | 495.08 | 495.07 | 495.03 | 495.96 | 495.77 | 495.71 | 495.45 | 495.64 | 495.46 | 495.69 | 495.92 | 496.03

WALL 004C L = 1066.41'

BEGIN MSE WALL 004C
℄ WALL004, STA 0+00.00
℄ RAMP G, STA 516+63.13, OFF 8.42' LT
ELEV 527.83

BANK ST BRIDGE
HAM-00075-02.179

TOP OF CONCRETE BARRIER
PROP GRADE AT FACE OF WALL
PROP T/WALL
ELEV 489.35
EX GROUND LINE
PROP BOTTOM OF LEVELING PAD
ELEV 491.35

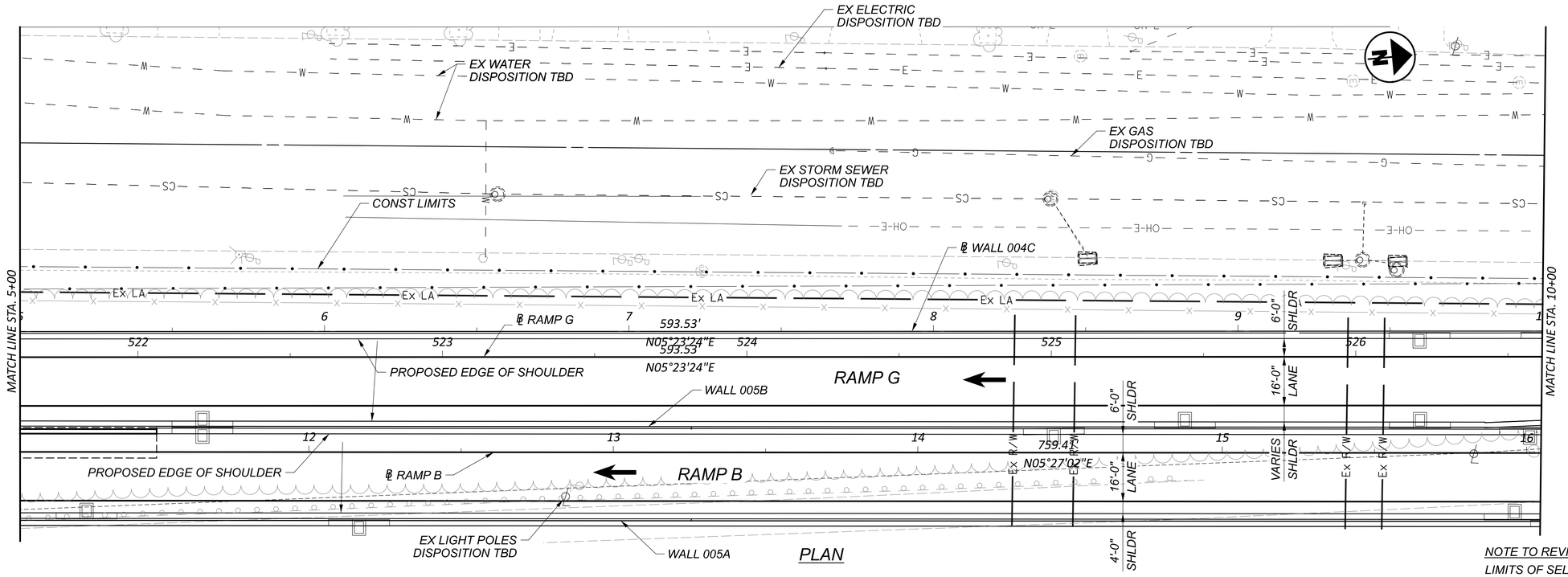
PROFILE ALONG ℄ WALL 004C

PLAN AND PROFILE (1 OF 3)
MSE WALL NO. 004C, ALONG RAMP G
STA 0+00.00 TO 5+00.00

SFN N/A
DESIGN AGENCY GANNETT FLEMING 2300 Corporate Exchange Dr. Suite 200 Columbus, OH 43231
DESIGNER MTO | CHECKER SAT
REVIEWER EFD 06/21/24
PROJECT ID 114161
SUBSET 19 | TOTAL 45
SHEET P.356 | TOTAL 463

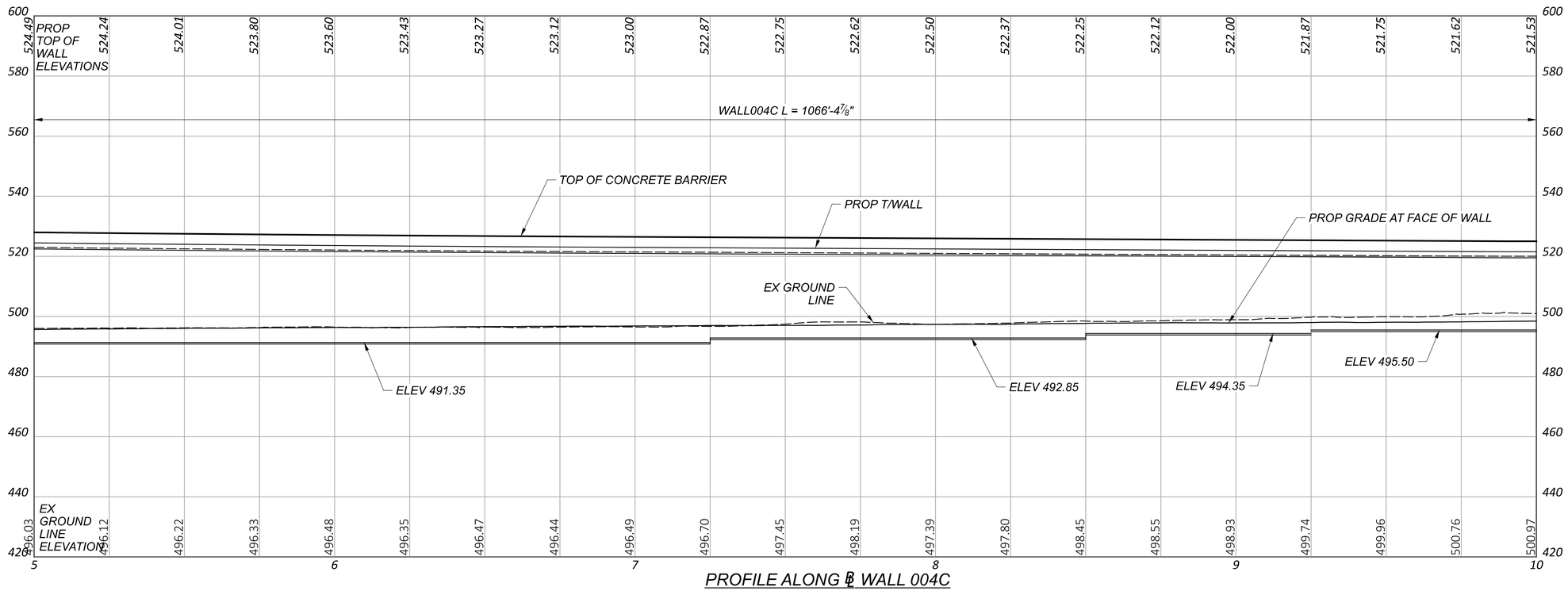
HAM-75-1.95

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NOTE TO REVIEWER

LIMITS OF SELECT GRANULAR BACKFILL AND WALL DRAINAGE, PER BDM SECTION 201.4.1 WILL BE SHOWN AT STAGE 2.



PROFILE ALONG ℄ WALL 004C

PLAN AND PROFILE (2 OF 3)
MSE WALL NO. 004C, ALONG RAMP G
STA 5+00.00 TO STA 10+00.00

SFN N/A

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
MTO	SAT

REVIEWER EFD 06/21/24

PROJECT ID 114161

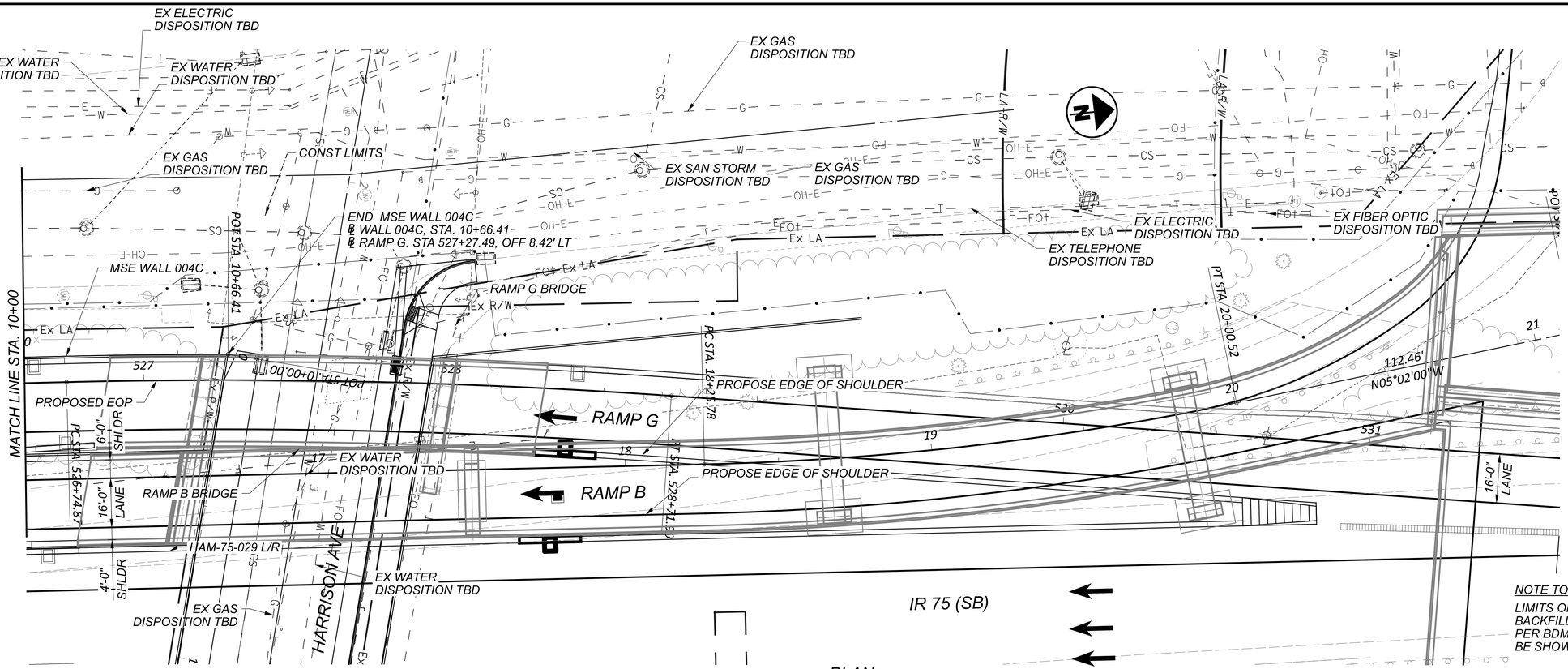
SUBSET	TOTAL
20	45

SHEET	TOTAL
P.357	463

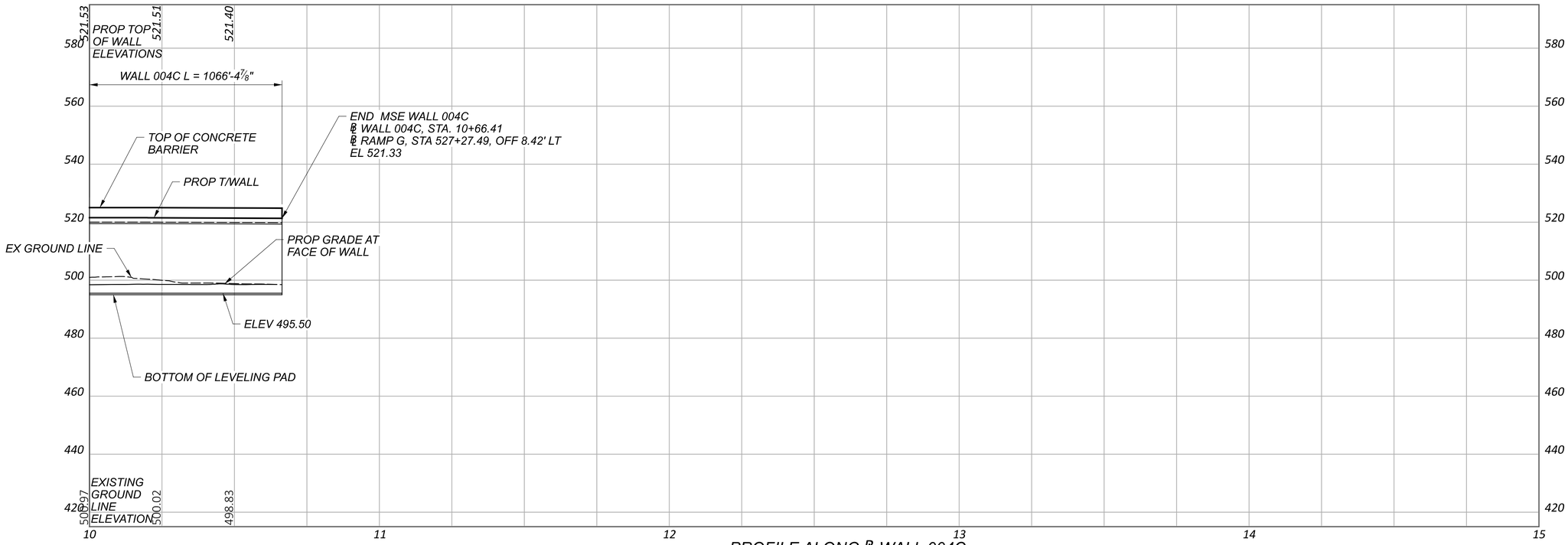
HAM-75-1.95

PENTABLE SUBSET: 1 SUBMITTAL: SUB_STG PLOT DRIVER: OHDOT_PDF.pltcfg PENTABLE: 114161_BW.tbl

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PLAN



PROFILE ALONG ℄ WALL 004C

NOTE TO REVIEWER

LIMITS OF SELECT GRANULAR BACKFILL AND WALL DRAINAGE, PER BDM SECTION 201.4.1 WILL BE SHOWN AT STAGE 2.

PLAN AND PROFILE (3 OF 3)
MSE WALL NO. 004C, ALONG RAMP G
STA 10+00.00 TO STA 10+28.63

SFN N/A

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
MTO	SAT

REVIEWER EFD 06/21/24

PROJECT ID 114161

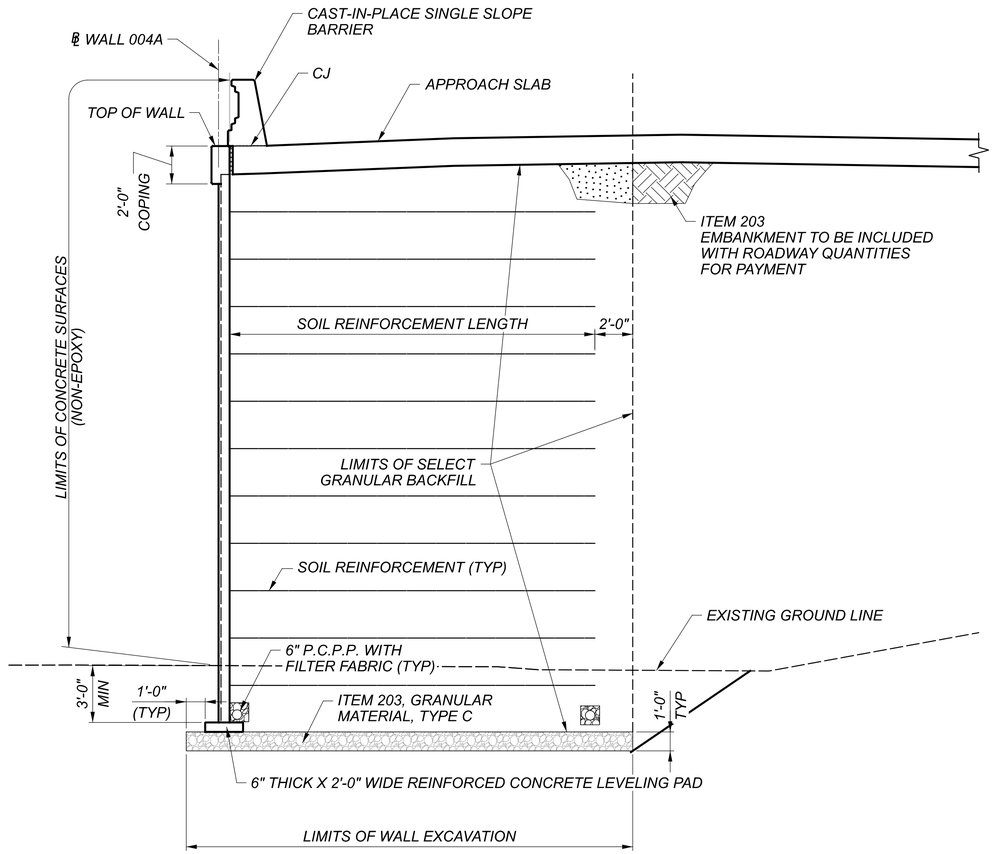
SUBSET	TOTAL
21	45

SHEET	TOTAL
P.358	463

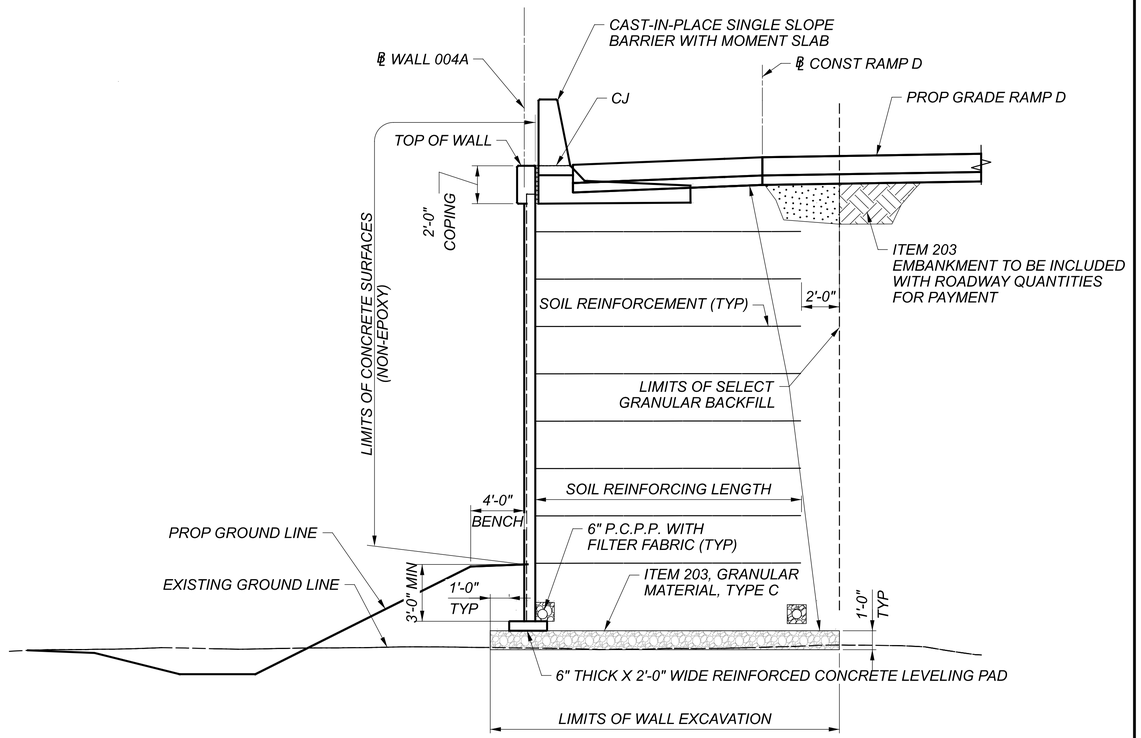
HAM-75-1.95

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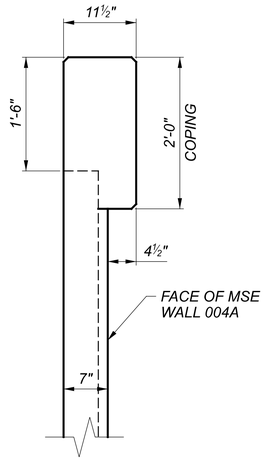
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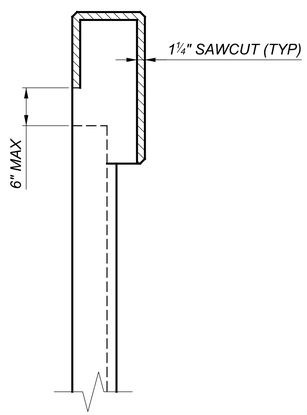
TYPICAL SECTION MSE WALL 004A (AT APPROACH SLAB)
(APPLIES STA. 0+00.00 TO STA 0+38.27)



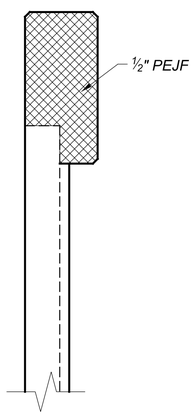
TYPICAL SECTION MSE WALL 004A
(APPLIES STA. 0+38.27 TO STA 7+27.88)



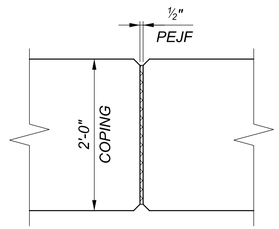
MSE WALL COPING



COPING CONTRACTION JOINTS



COPING EXPANSION JOINTS



COPING EXPANSION JOINT
(MAX JOINT SPACING IS 20'-0")

WALL SECTIONS
RETAINING WALL NO. 004A, ALONG RAMP D
STA 0+00.00 TO STA 7+27.88

SFN N/A

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
MTO	SAT

REVIEWER EFD 06/21/24

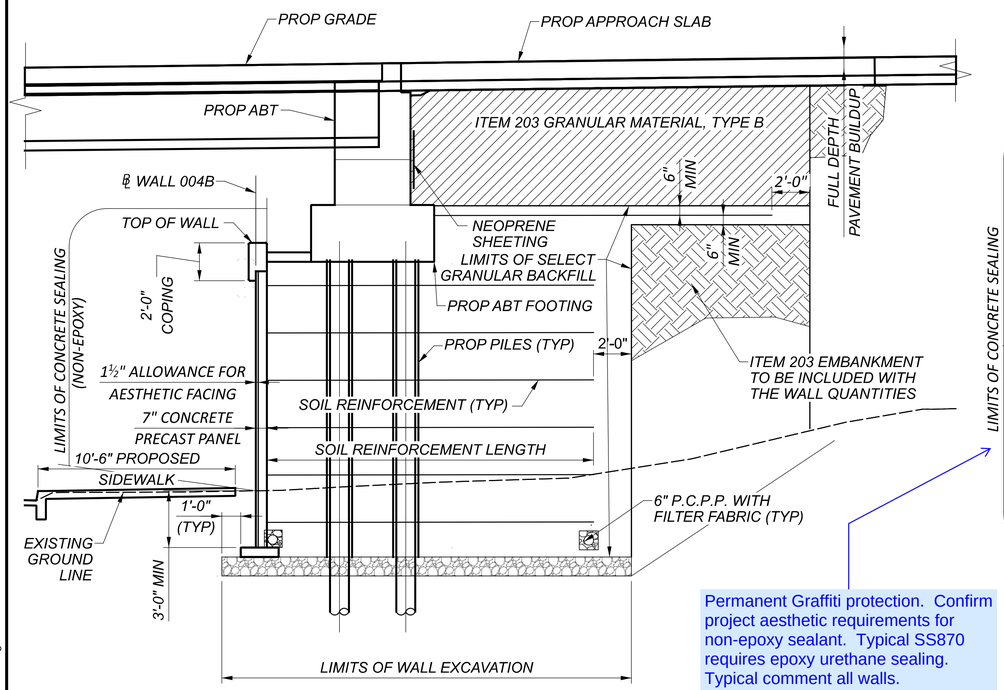
PROJECT ID 114161

SUBSET	TOTAL
22	45

SHEET	TOTAL
P.359	463

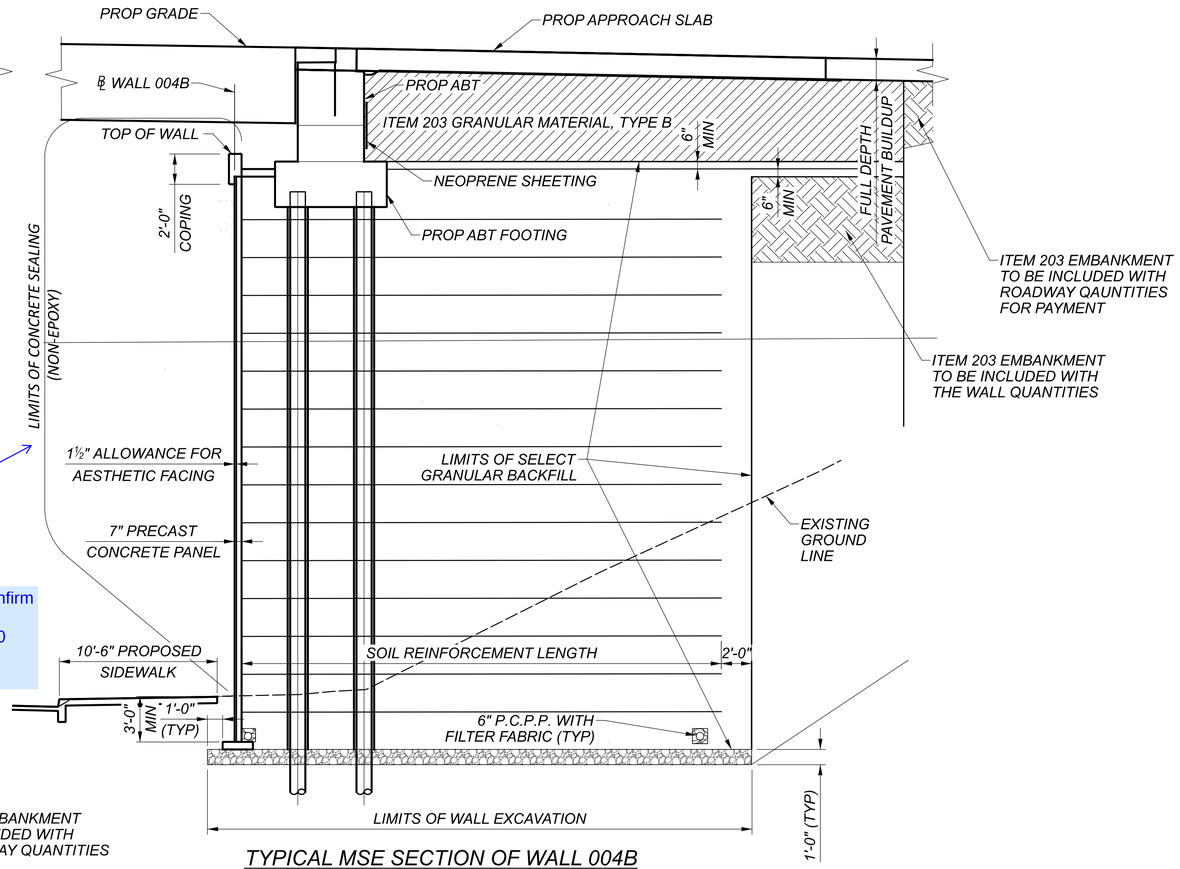
HAM-75-1.95

PENTABLE SUBSET: 1 SUBMITTAL: SUB_STG PLOT DRIVER: OHDOT_PDF.pltcfg PENTABLE: 114161_BW.tbl
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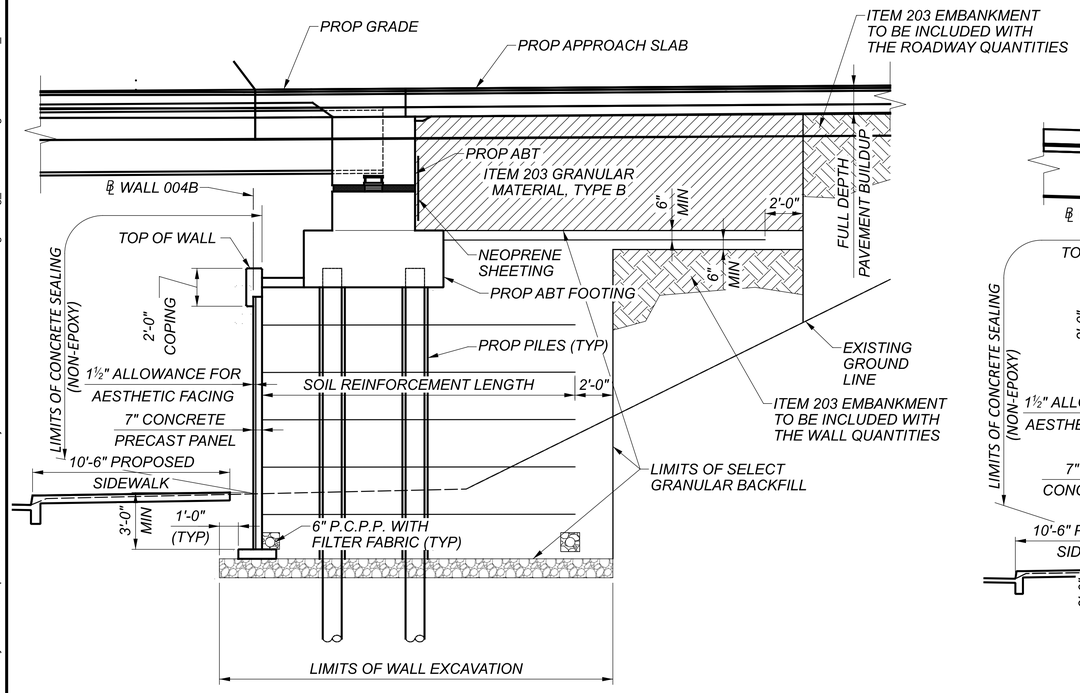


TYPICAL MSE SECTION OF WALL 004B
(STA 0+15.00)

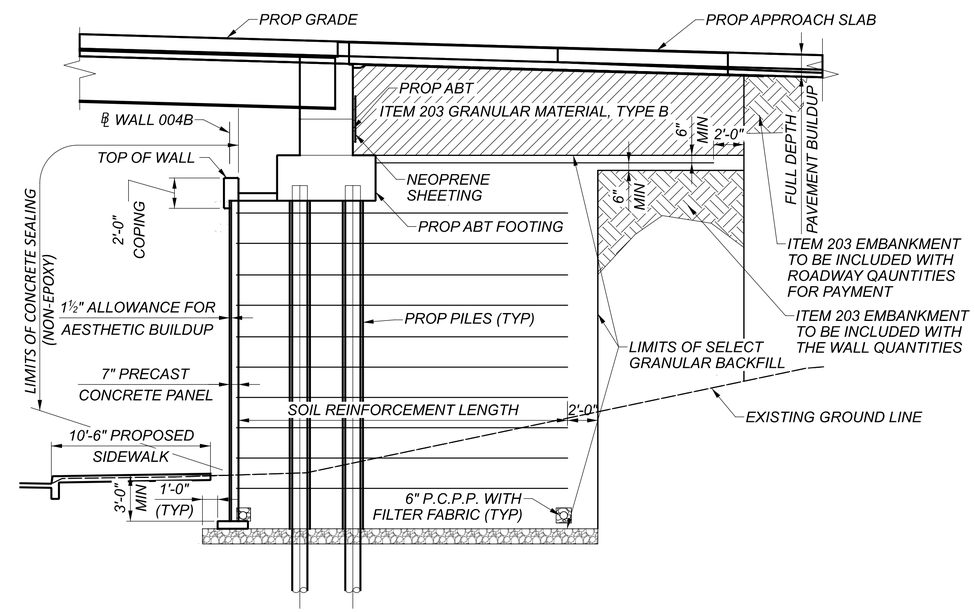
Permanent Graffiti protection. Confirm project aesthetic requirements for non-epoxy sealant. Typical SS870 requires epoxy urethane sealing. Typical comment all walls.



TYPICAL MSE SECTION OF WALL 004B
(STA 0+49.00)



TYPICAL MSE SECTION OF WALL 004B
(STA 1+50.00)



TYPICAL MSE SECTION OF WALL 004B
(STA 2+90.00)

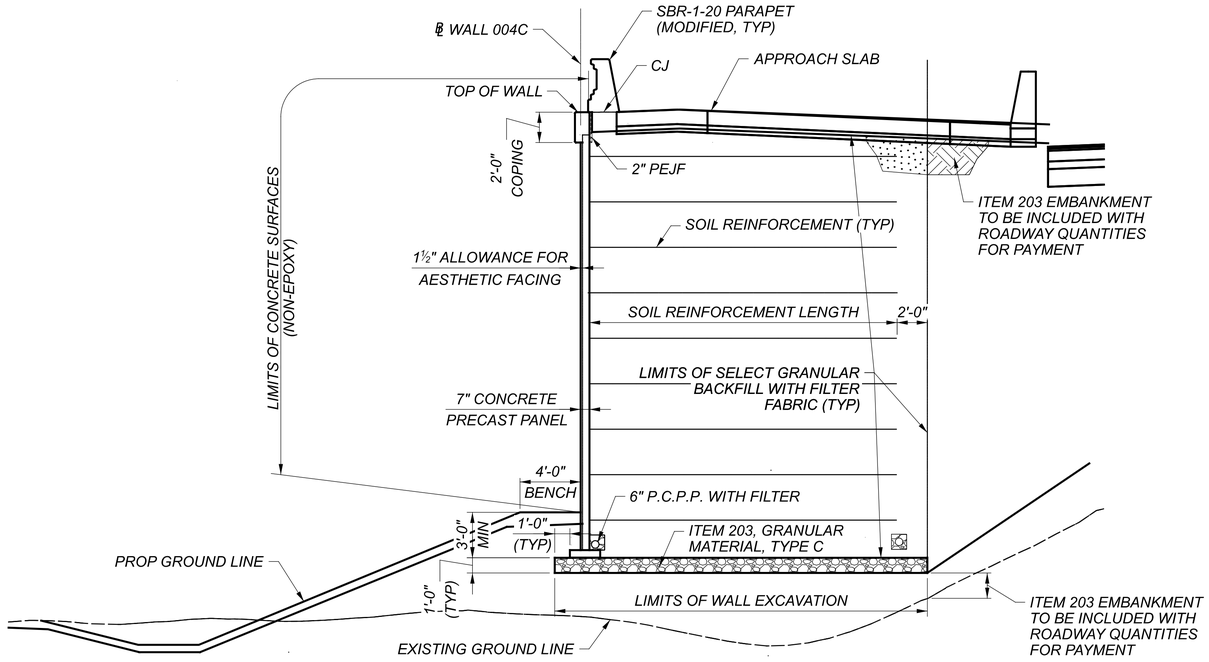
WALL SECTIONS
RETAINING WALL NO. 004B, ALONG HARRISON AVE.
STA 0+00.00 TO STA 3+23.60

SFN	N/A
DESIGN AGENCY	GANNETT FLEMING, 2500 Corporate Exchange Dr. Suite 202, Columbus, OH 43231
DESIGNER	MTO
CHECKER	SAT
REVIEWER	EFD 06/21/24
PROJECT ID	114161
SUBSET	23
TOTAL	45
SHEET	P.360
TOTAL	463

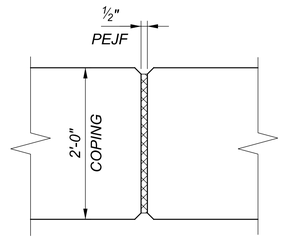
HAM-75-1.95

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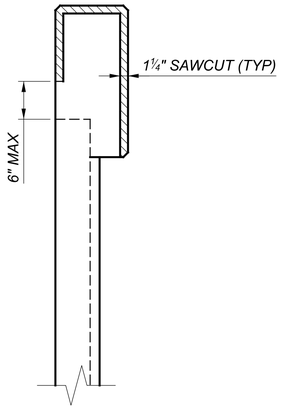
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pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161402-Engineering_GannettFleming\Structures\Wall_004\Sheets\114161_WALL004_WX002.dgn



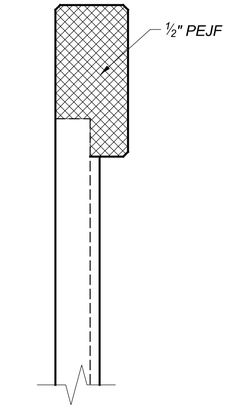
TYPICAL MSE SECTION OF WALL 004C
(APPLIES TO STA 9+90.41 TO STA 10+28.63)



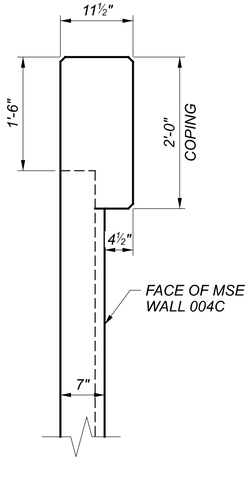
COPING EXPANSION JOINT



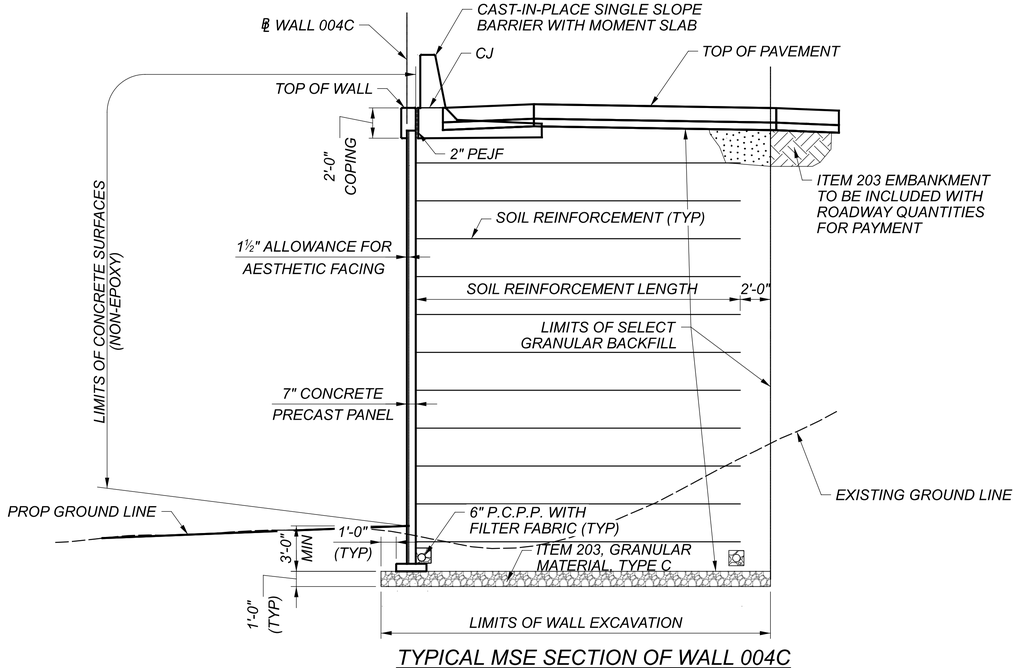
COPING CONTRACTION JOINTS



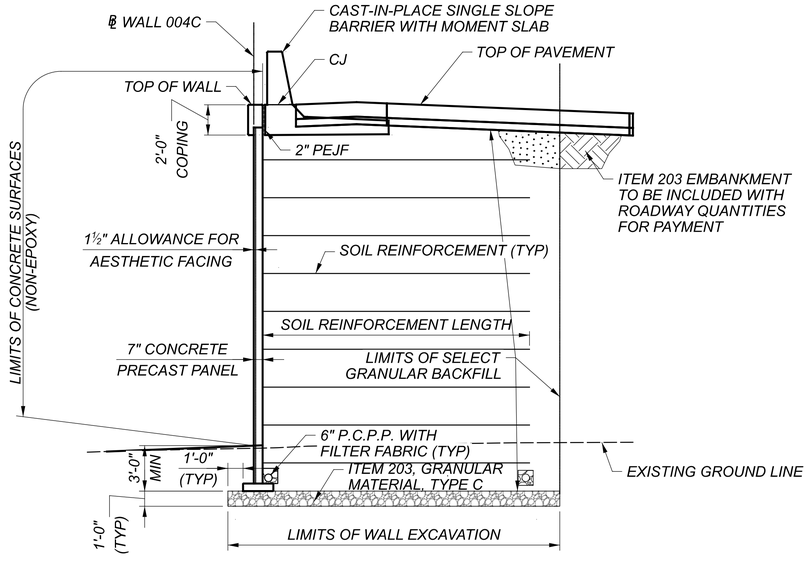
COPING EXPANSION JOINTS



MSE WALL COPING



TYPICAL MSE SECTION OF WALL 004C
(APPLIES TO STA 4+00.00)



TYPICAL MSE SECTION OF WALL 004C
(APPLIES TO STA 9+30.00)

WALL SECTIONS
RETAINING WALL NO. 004C, ALONG RAMP G
STA 0+00.00 TO STA 10+28.63

SFN N/A

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
MTO	SAT

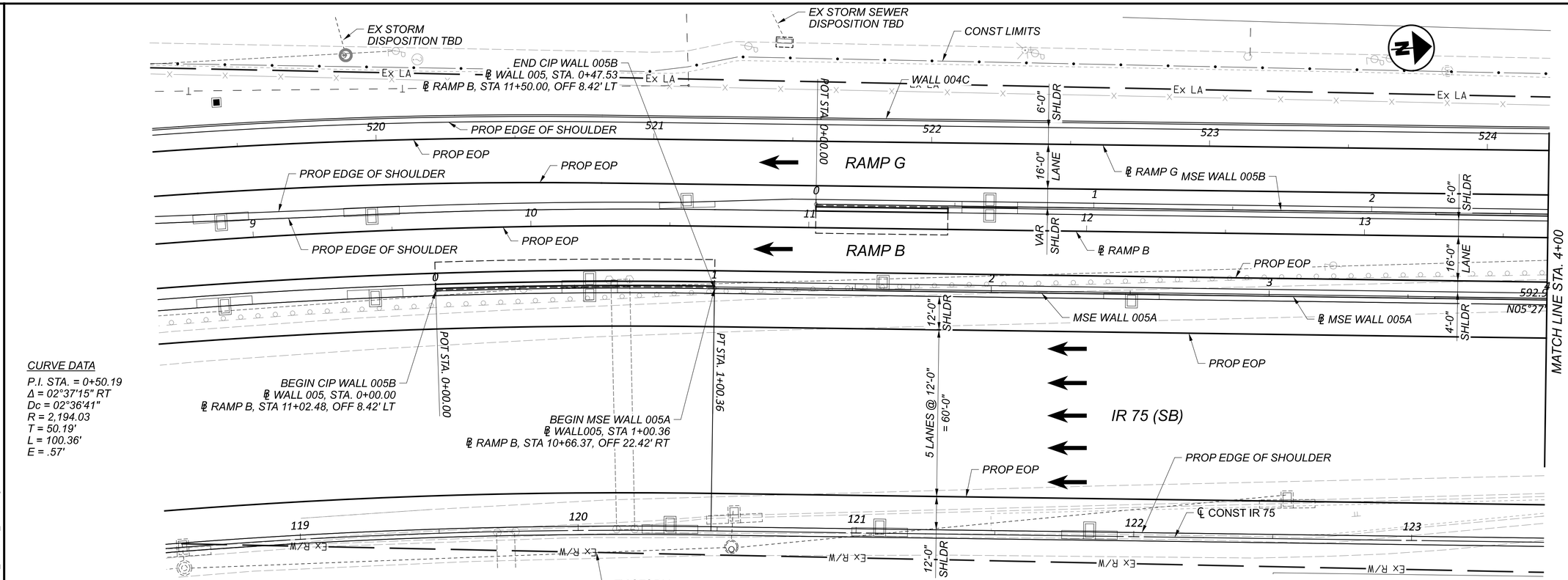
REVIEWER
EFD 06/21/24

PROJECT ID
114161

SUBSET	TOTAL
24	45

SHEET	TOTAL
P.361	463

HAM-75-1.95
PENTABLE SUBSET: 1
SUBMITTAL: SUB_STG
PLOT DRIVER: OHDOT_PDF.pltcfg
MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:17:25 PM USER: stony
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\402-Engineering_GannettFleming\Structures\Wall_004\Sheets\114161_WALL004_WX003.dgn
PENTABLE: 114161_BW.tbl



CURVE DATA

P.I. STA. = 0+50.19
Δ = 02°37'15" RT
Dc = 02°36'41"
R = 2,194.03
T = 50.19'
L = 100.36'
E = .57'

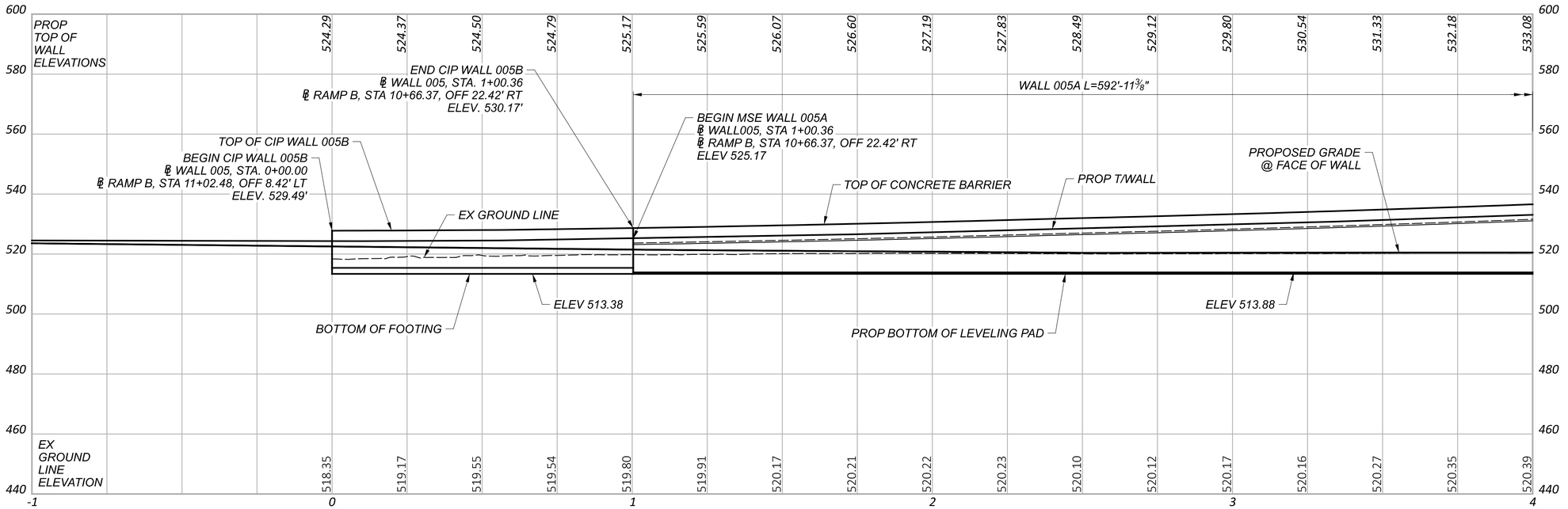
PLAN

NOTE

CIP WALLS WILL BE SHOWN SEPARATELY FROM THE MSE WALLS FOR STAGE 2 SUBMISSION.

NOTE TO REVIEWER

LIMITS OF SELECT GRANULAR BACKFILL AND WALL DRAINAGE, PER BDM SECTION 201.4.1 WILL BE SHOWN AT STAGE 2.



PROFILE ALONG ℄ WALL 005A

PLAN AND PROFILE (1 OF 2)
RETAINING WALL NO. 005A ALONG RAMP B
STA 0+00.00 TO STA 4+00.00

SFN N/A

DESIGN AGENCY
GANNETT FLEMING
2300 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
MTO	SAT

REVIEWER EFD 06/21/24

PROJECT ID 114161

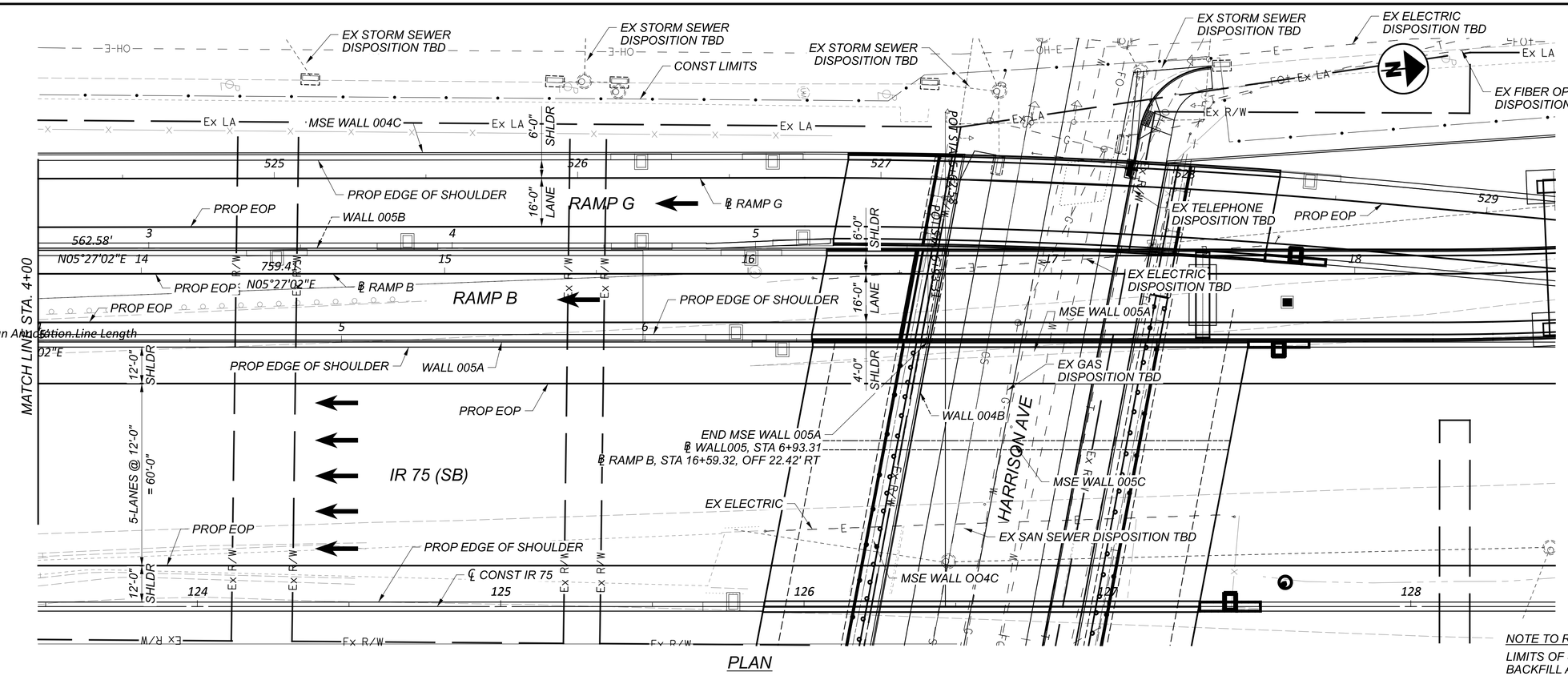
SUBSET	TOTAL
25	45

SHEET	TOTAL
P.362	463

HAM-75-1.95

PENTABLE SUBSET: 1 SUBMITTAL: SUB_STG PLOT DRIVER: OHDOT_PDF.pltcfg PENTABLE: 114161_BW.tbl

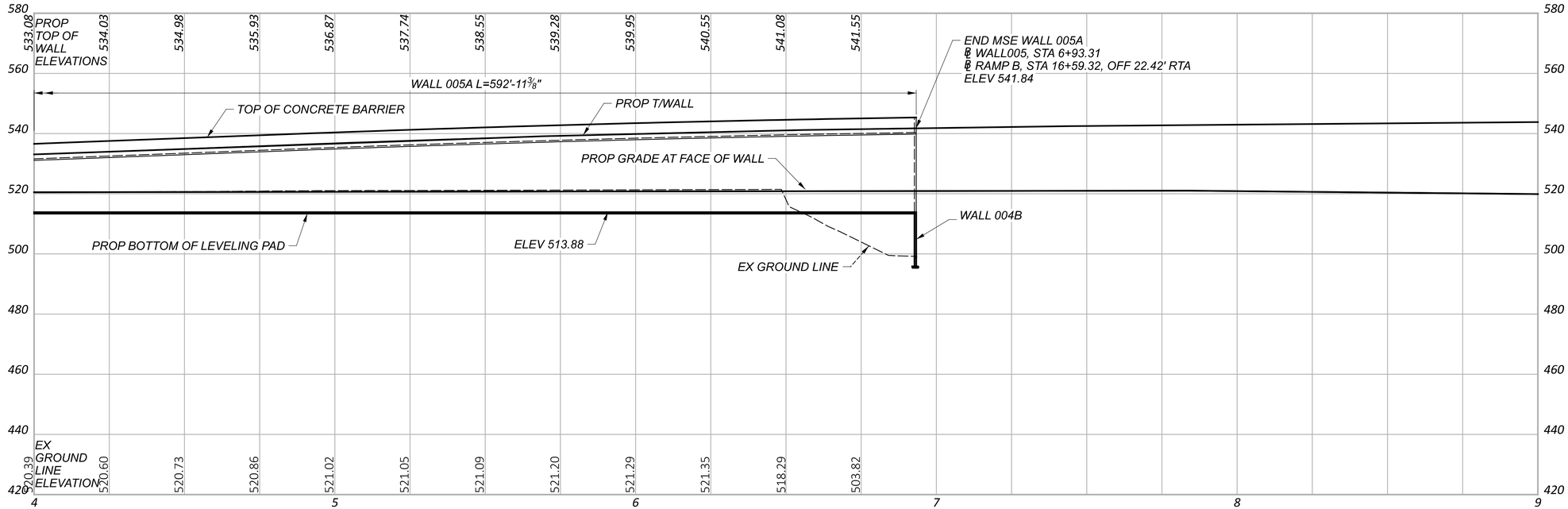
MODEL: Wall 5A-1 - Wall 5A-4 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:19:00 PM USER: stony
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161402-Engineering_GannettFleming\Structures\Wall_005\Sheets\114161_WALL005_WP001.dgn



PLAN

NOTE TO REVIEWER

LIMITS OF SELECT GRANULAR BACKFILL AND WALL DRAINAGE, PER BDM SECTION 201.4.1 WILL BE SHOWN AT STAGE 2.



PROFILE ALONG ℄ WALL 005A

PLAN AND PROFILE (2 OF 2)
RETAINING WALL NO. 005A ALONG RAMP B
STA 4+00.00 TO STA 6+93.31

SFN N/A

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
MTO	SAT

REVIEWER EFD 06/21/24

PROJECT ID 114161

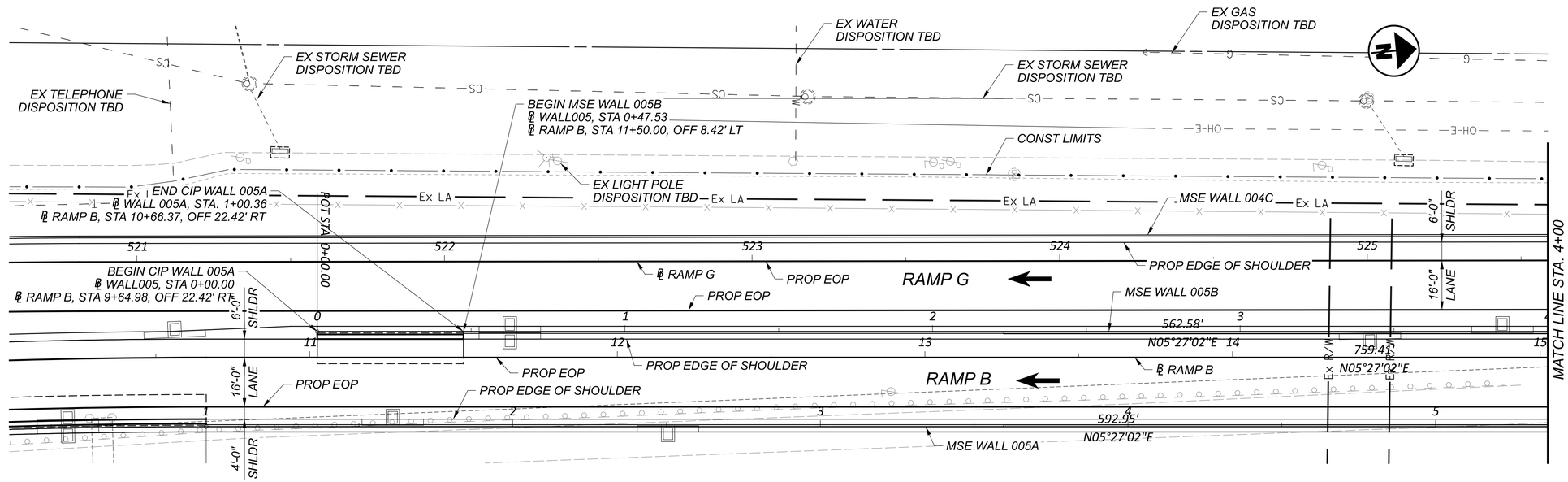
SUBSET	TOTAL
26	45

SHEET	TOTAL
P.363	463

HAM-75-1.95

PENTABLE SUBSET: 1 SUBMITTAL: SUB_STG PLOT DRIVER: OHDOT_PDF.pltcfg PENTABLE: 114161_BW.tbl

MODEL: Wall 5A - Wall 5A-4 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:19:41 PM USER: stony
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161402-Engineering_GannettFleming\StructuresWall_005\Sheets\114161_WALL005_WP002.dgn



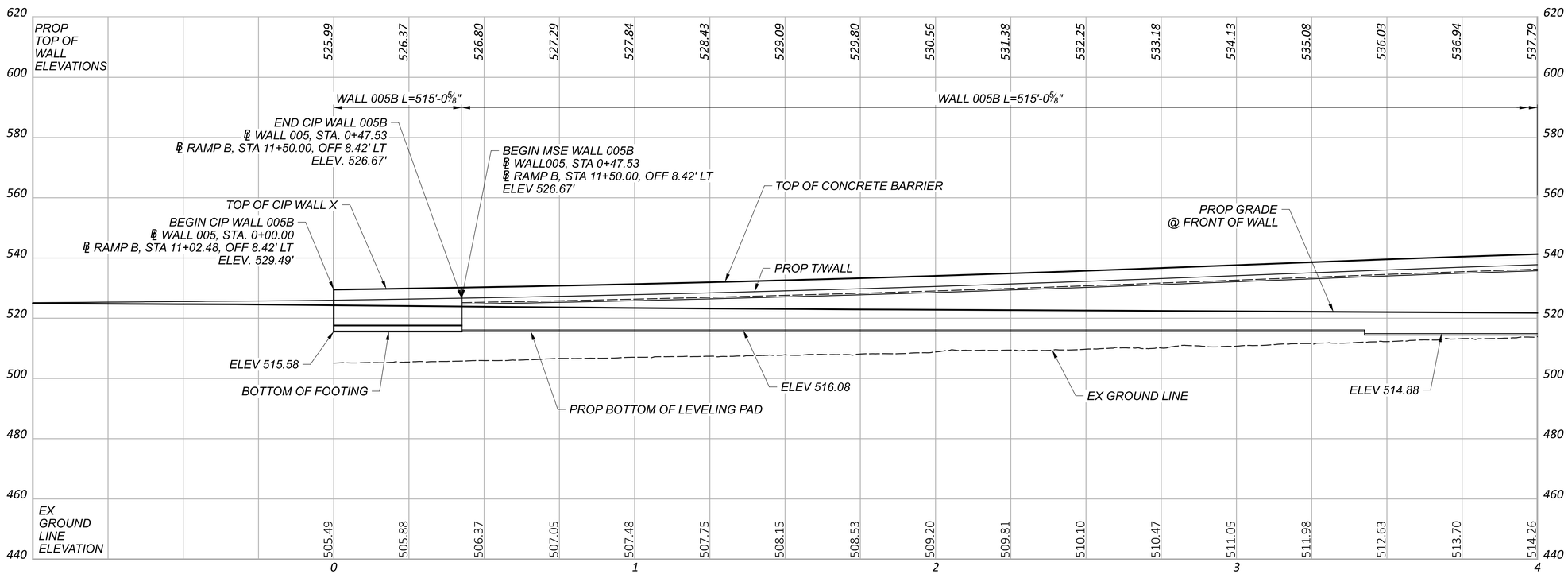
PLAN

NOTE

CIP WALLS WILL BE SHOWN SEPARATELY FROM THE MSE WALLS FOR STAGE 2 SUBMISSION.

NOTE TO REVIEWER

LIMITS OF SELECT GRANULAR BACKFILL AND WALL DRAINAGE, PER BDM SECTION 201.4.1 WILL BE SHOWN AT STAGE 2.



PROFILE ALONG ℄ WALL 005B

PLAN AND PROFILE (1 OF 2)
RETAINING WALL NO. 005B ALONG RAMP B & G
STA 0+00.00 TO STA 4+00

SFN N/A

DESIGN AGENCY: GANNETT FLEMING, 2500 Corporate Exchange Dr. Suite 200, Columbus, OH 43231

DESIGNER	CHECKER
MTO	SAT

REVIEWER EFD 06/21/24

PROJECT ID 114161

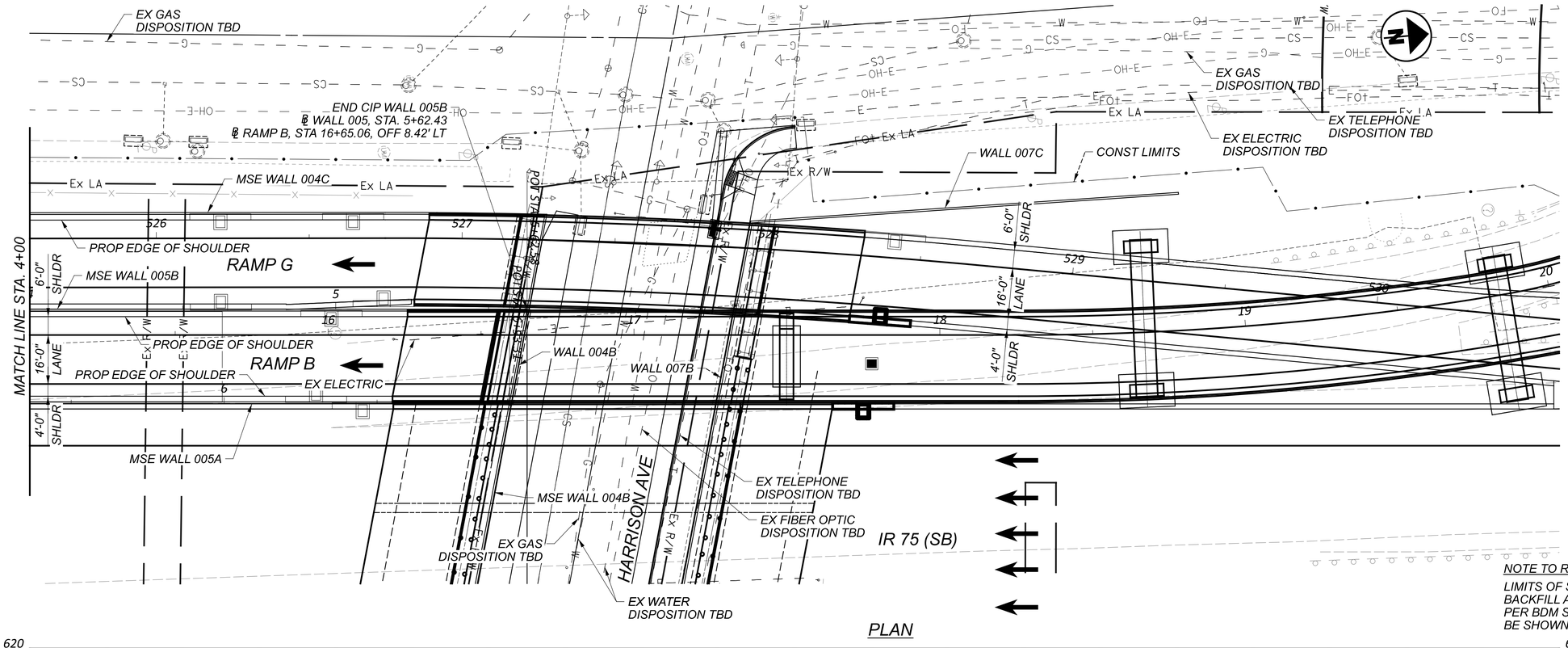
SUBSET	TOTAL
27	45

SHEET	TOTAL
P.364	463

HAM-75-1.95 PENTABLE SUBSET: 1 SUBMITTAL: SUB_STG PLOT DRIVER: OHDOT_PDF.pltcfg

MODEL: Wall 5B - Wall 5B PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:20:23 PM USER: stony
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161402-Engineering_GannettFleming\Structures\Wall_005\Sheets\114161_WALL005_WP003.dgn

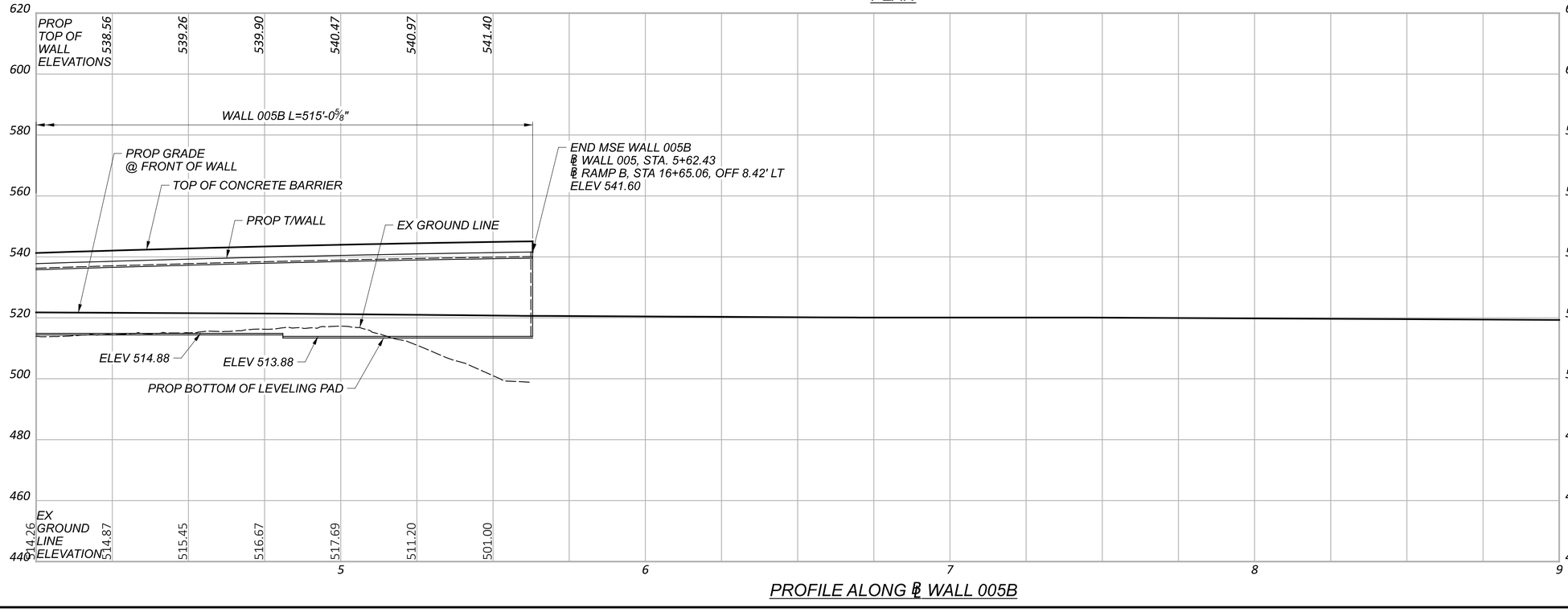
PENTABLE: 114161_BW.tbl



PLAN

NOTE TO REVIEWER

LIMITS OF SELECT GRANULAR BACKFILL AND WALL DRAINAGE, PER BDM SECTION 201.4.1 WILL BE SHOWN AT STAGE 2.



PROFILE ALONG ℄ WALL 005B

PLAN AND PROFILE (2 OF 2)
RETAINING WALL NO. 005B ALONG RAMP B & G
STA 4+00.00 TO STA 5+62.43

SFN N/A

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
MTO	SAT

REVIEWER EFD 06/21/24

PROJECT ID 114161

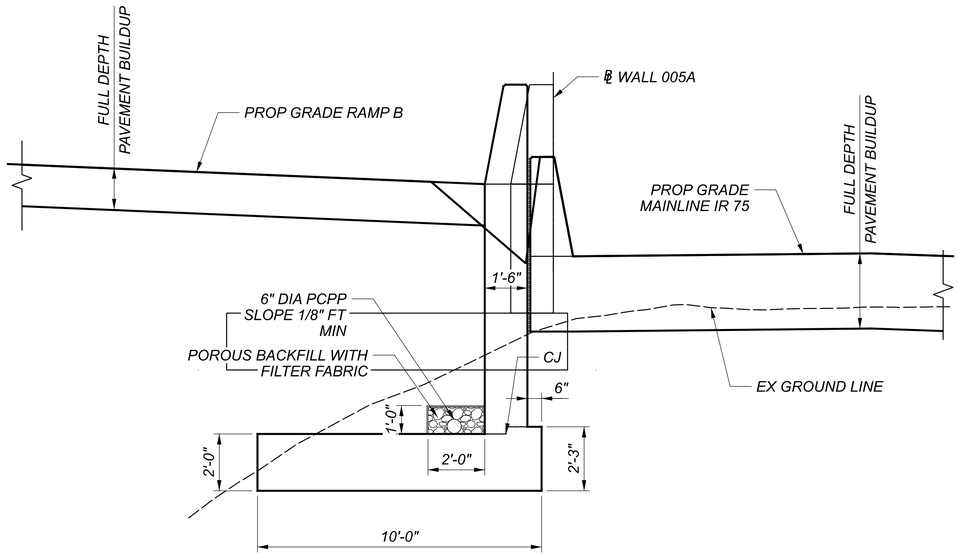
SUBSET	TOTAL
28	45

SHEET	TOTAL
P.365	463

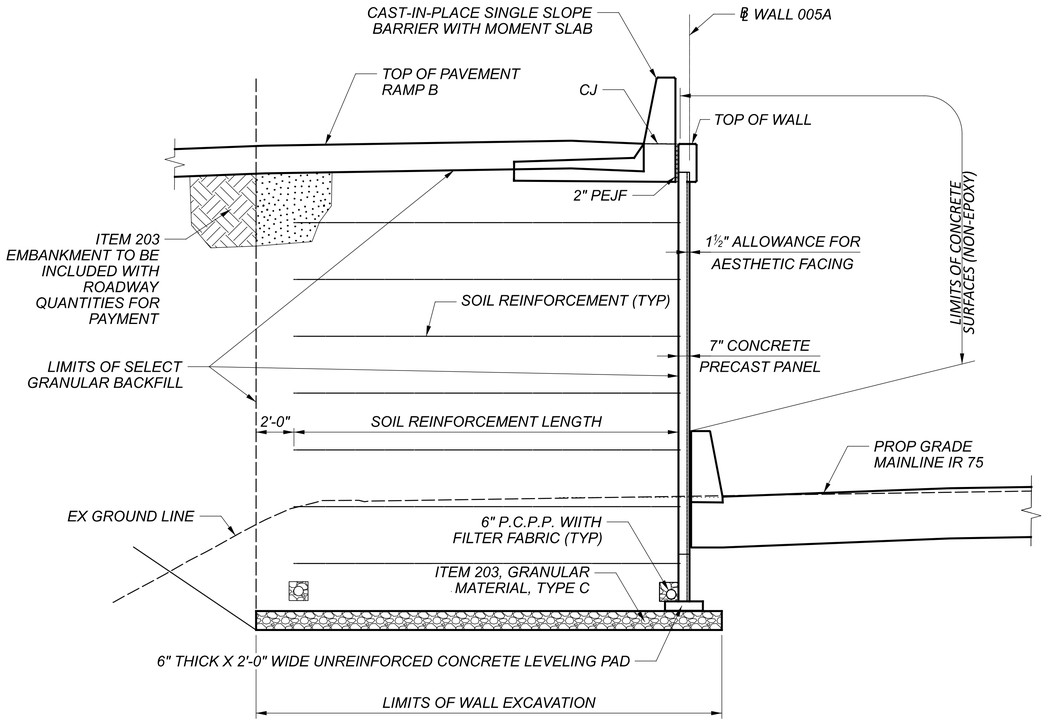
HAM-75-1.95

PENTABLE SUBSET: 1 SUBMITTAL: SUB_STG PLOT DRIVER: OHDOT_PDF.pltcfg PENTABLE: 114161_BW.tbl

MODEL: Wall 5B - Wall 5B-1 PAPERSIZE: 34x22 (in.) DATE: 8/20/2024 TIME: 5:20:59 PM USER: stony
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\402-Engineering_GannettFleming\Structures\Wall_005\Sheets\114161_WALL005_WP004.dgn



TYPICAL CAST-IN-PLACE SECTION WALL 005A
(APPLIES FROM STA 0+00.00 TO STA 0+99.22)



TYPICAL SECTION WALL 005A
(APPLIES FROM STA 0+99.22 TO STA 6+93.31)

WALL SECTIONS
RETAINING WALL 005A ALONG RAMP B
STA 0+00.00 TO STA 6+93.31

SFN
N/A

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
MTO	SAT

REVIEWER
EFD 06/21/24

PROJECT ID
114161

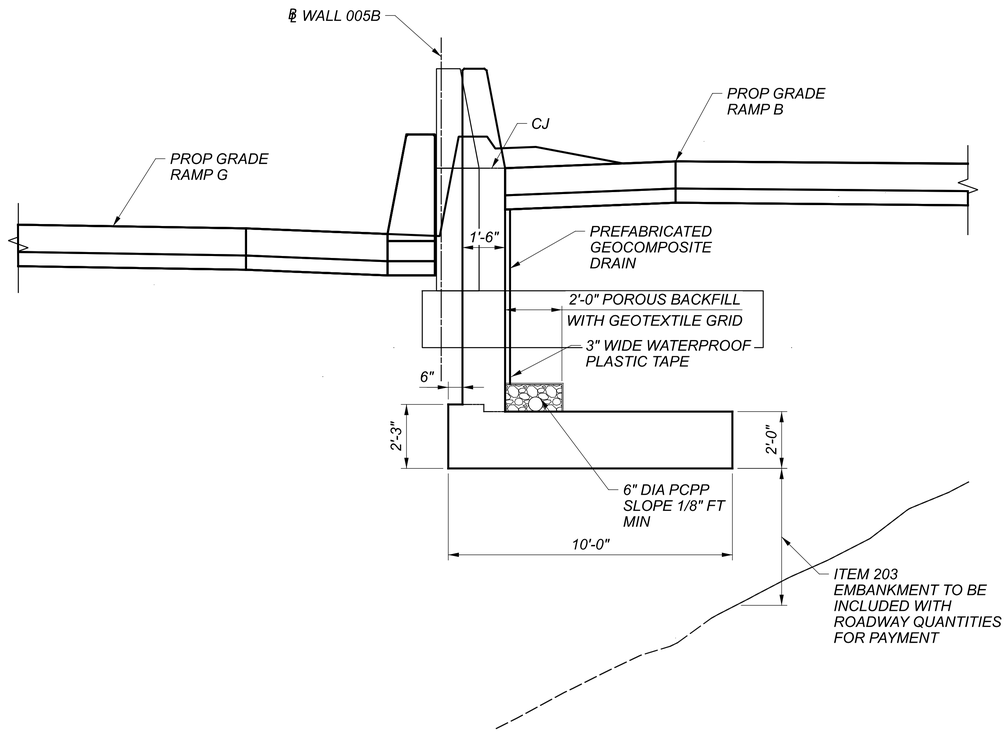
SUBSET	TOTAL
29	45

SHEET	TOTAL
P.366	463

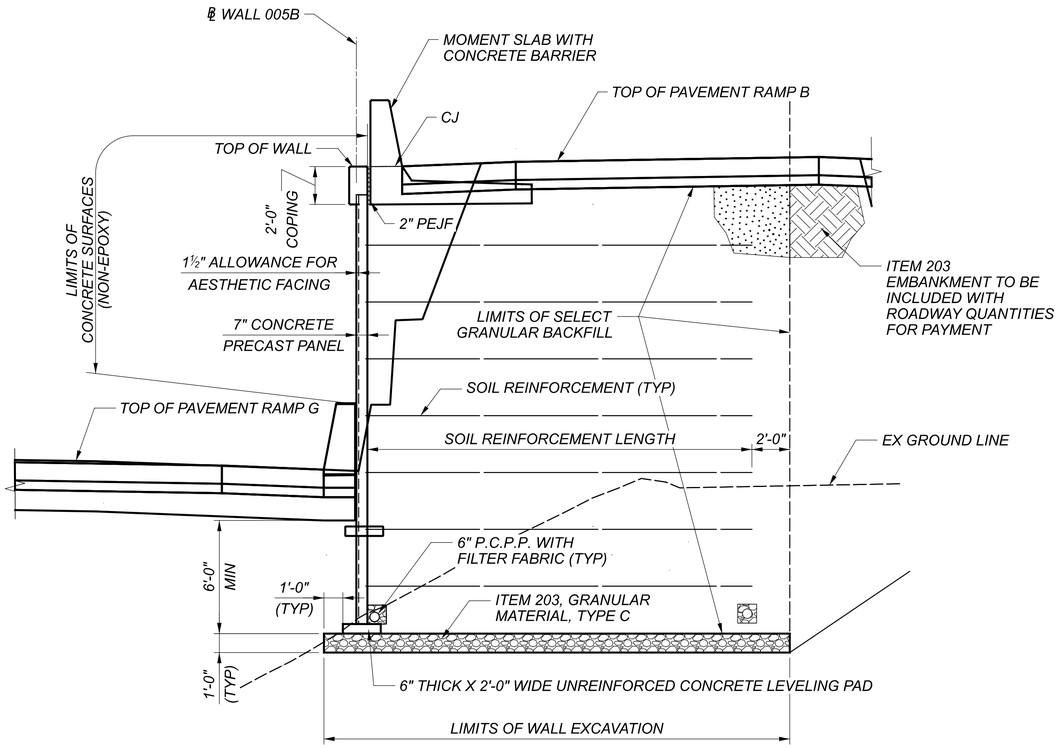
HAM-75-1.95

PENTABLE SUBSET: 1 SUBMITTAL: SUB_STG PLOT DRIVER: OHDOT_PDF.pltcfg PENTABLE: 114161_BW.tbl

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:21:41 PM USER: stony
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161402-Engineering_GannettFleming\Structures\Wall_005\Sheets\114161_WALL005_WX001.dgn



TYPICAL CAST-IN-PLACE SECTION WALL 005B
(APPLIES FROM STA 0+00.00 TO STA 0+47.53)



TYPICAL MSE SECTION WALL 005B
(APPLIES FROM STA 0+47.53 TO STA 5+62.43)

WALL SECTIONS
RETAINING WALL NO. 005B ALONG RAMP B & G
STA 0+00.00 TO STA 5+62.43

SFN
N/A

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
MTO	SAT

REVIEWER
EFD 06/21/24

PROJECT ID
114161

SUBSET	TOTAL
30	45

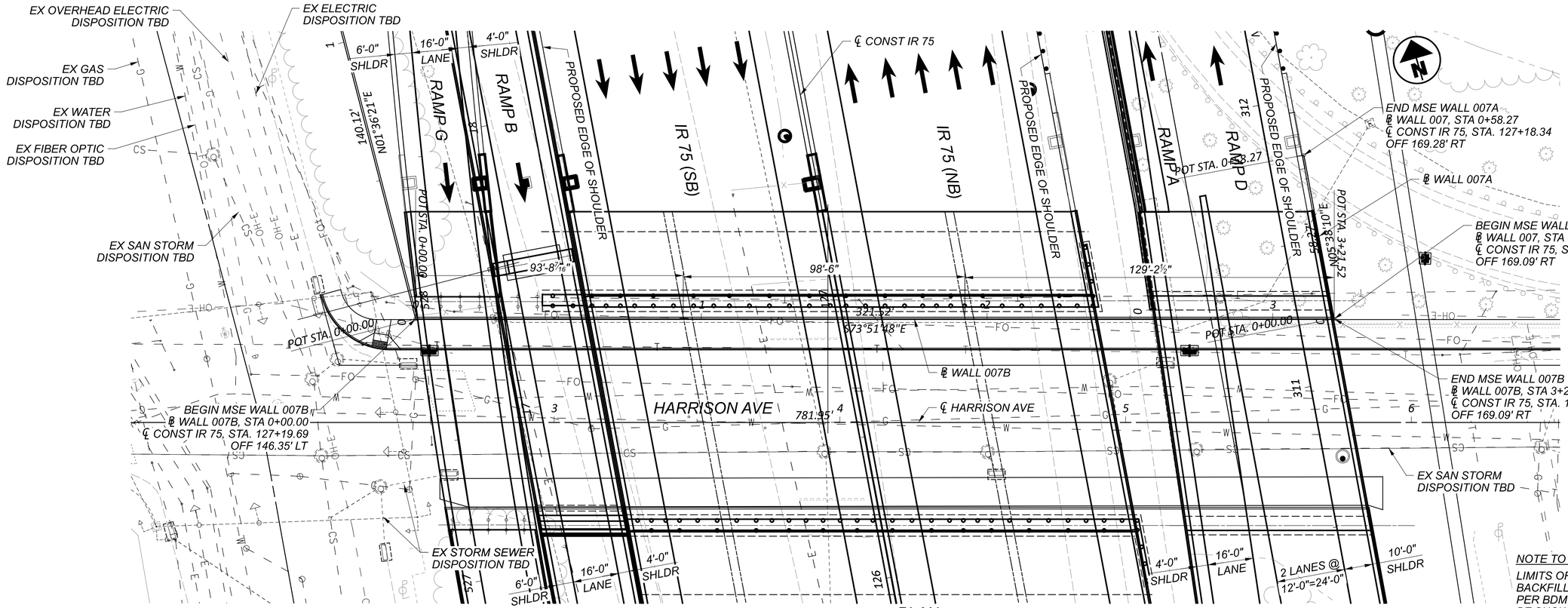
SHEET	TOTAL
P.367	463

HAM-75-1.95

PENTABLE SUBSET: 1 SUBMITTAL: SUB_STG PLOT DRIVER: OHDOT_PDF.pltcfg

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:22:54 PM USER: stony
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\402-Engineering_GannettFleming\Structures\Wall_005\Sheets\114161_WALL005_WX002.dgn

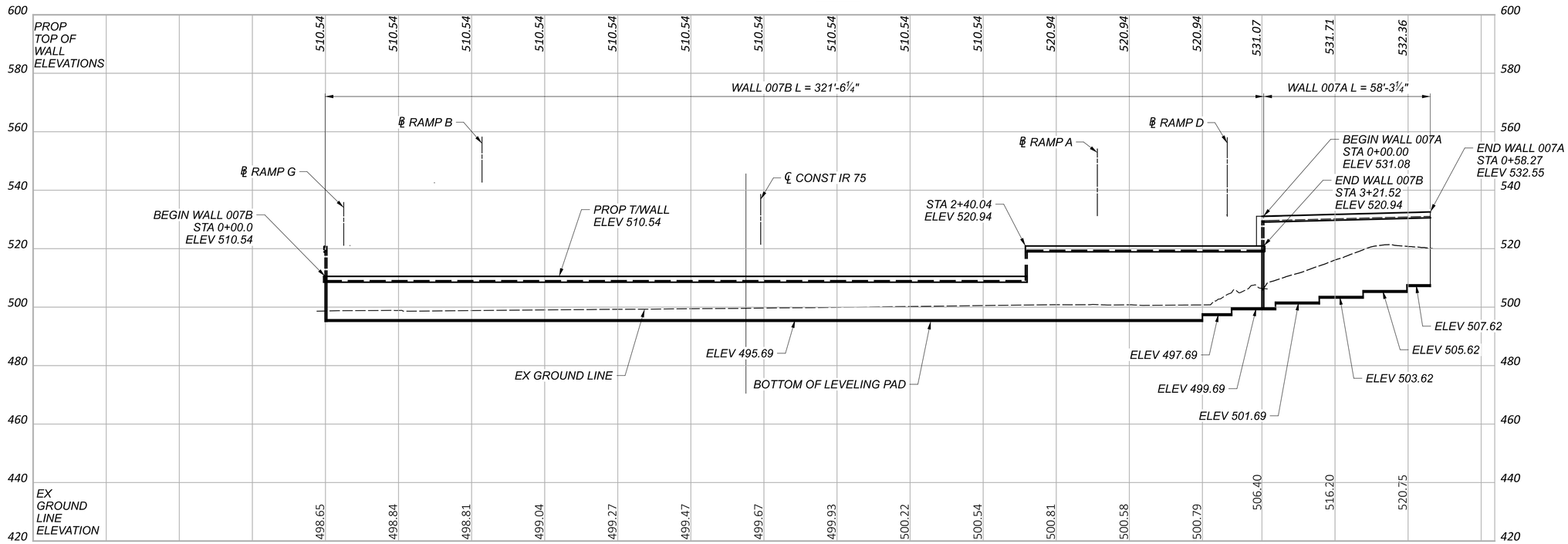
PENTABLE: 114161_BW.tbl



PLAN

NOTE TO REVIEWER

LIMITS OF SELECT GRANULAR BACKFILL AND WALL DRAINAGE, PER BDM SECTION 201.4.1 WILL BE SHOWN AT STAGE 2.



PROFILE ALONG ℄ WALL 007A & 007B

PLAN AND ELEVATION
RETAINING WALL NO. 007A ALONG HARRISON AVE AND 007B ALONG RAMP D
STA 0+00.00 TO STA 3+21.52 & STA 0+00.00 TO STA 0+58.27

SFN N/A

DESIGN AGENCY
GANNETT FLEMING
2300 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
MTO	SAT

REVIEWER: EFD 06/21/24

PROJECT ID: 114161

SUBSET	TOTAL
31	45

SHEET	TOTAL
P.368	463

HAM-75-1.95

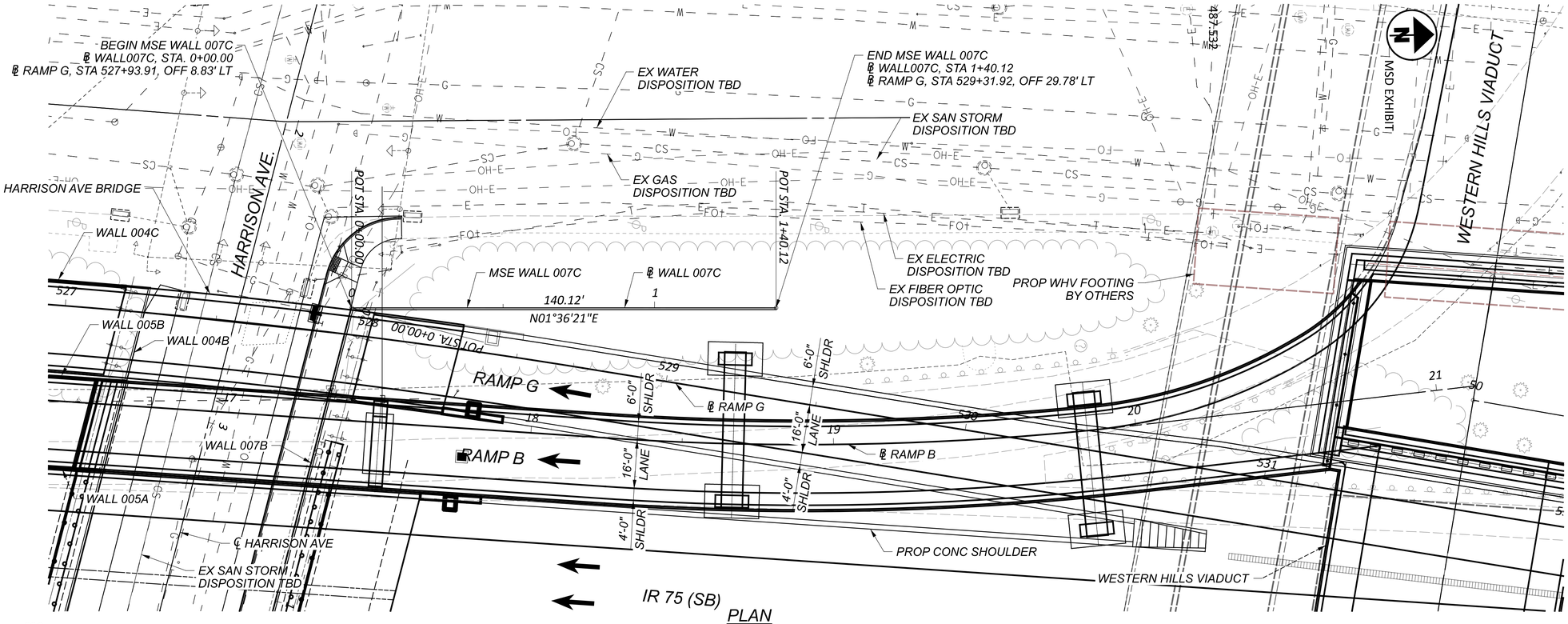
PENTABLE SUBSET: 1

SUBMITTAL: SUB_STG

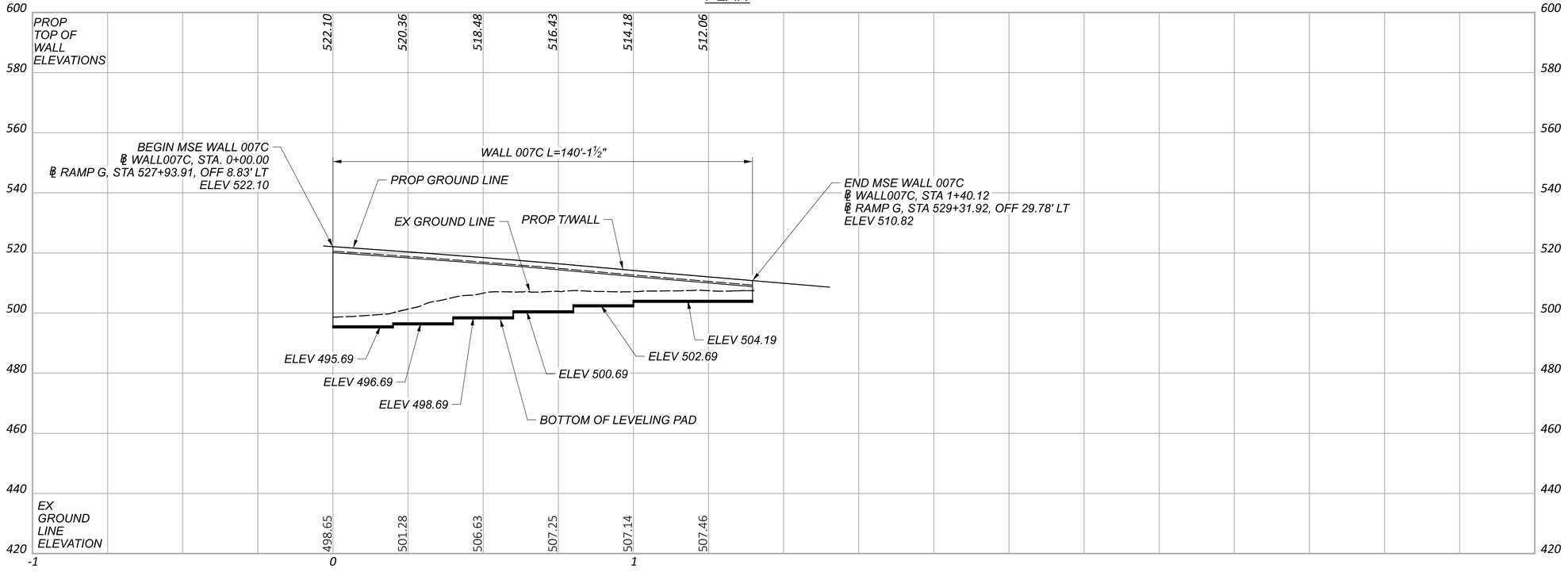
PLOT DRIVER: OHDOT_PDF.pltcfg

PENTABLE: 114161_BW.tbl

MODEL: Wall 7B - Wall 7B [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:24:37 PM USER: stony
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\402-Engineering_GannettFleming\StructuresWall_007\Sheets\114161_WALL007_WP001.dgn



PLAN



PROFILE ALONG ℄ WALL 007C

NOTE TO REVIEWER

LIMITS OF SELECT GRANULAR BACKFILL AND WALL DRAINAGE, PER BDM SECTION 201.4.1 WILL BE SHOWN AT STAGE 2.

PLAN AND PROFILE
RETAINING WALL NO. 007C ALONG RAMP G
STA 0+00.00 TO STA 1+40.12

SFN
N/A

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
MTO	SAT

REVIEWER
EFD 06/21/24

PROJECT ID
114161

SUBSET	TOTAL
32	45

SHEET	TOTAL
P.369	463

HAM-75-1.95

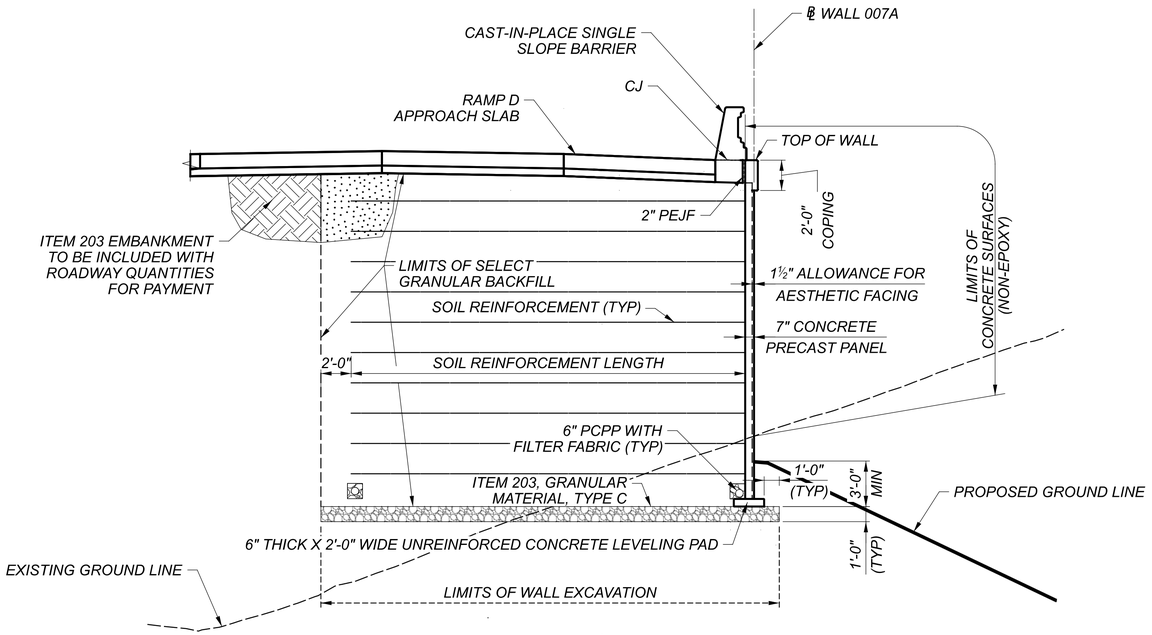
PENTABLE SUBSET: 1

SUBMITTAL: SUB_STG

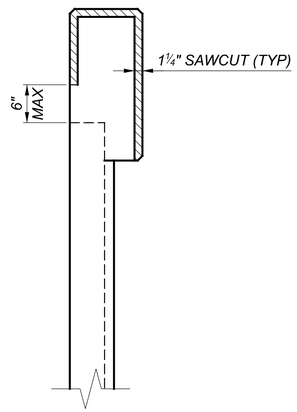
PLOT DRIVER: OHDOT_PDF.pltcfg

PENTABLE: 114161_BW.tbl

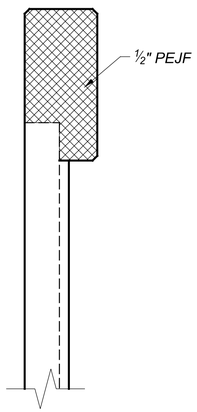
MODEL: Wall 7C - Wall 7C [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:25:23 PM USER: stony
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161402-Engineering_GannettFleming\Structures\Wall_007\Sheets\114161_WALL007_WP002.dgn



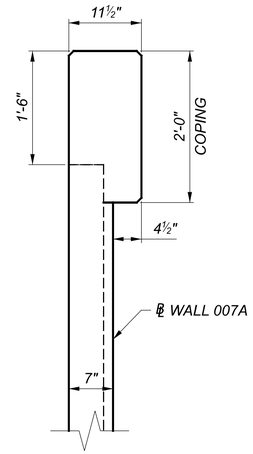
TYPICAL MSE SECTION OF WALL 007A
(APPLIES STA 0+00.00 TO STA 0+58.27)



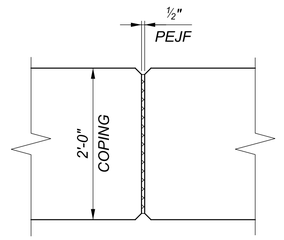
COPING CONTRACTION JOINTS



COPING EXPANSION JOINTS



MSE WALL COPING



COPING EXPANSION JOINT

WALL SECTIONS
RETAINING WALL NO. 007A ALONG RAMP D
STA 0+00.00 TO STA 0+58.27

SFN N/A

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
MTO	SAT

REVIEWER
EFD 06/21/24

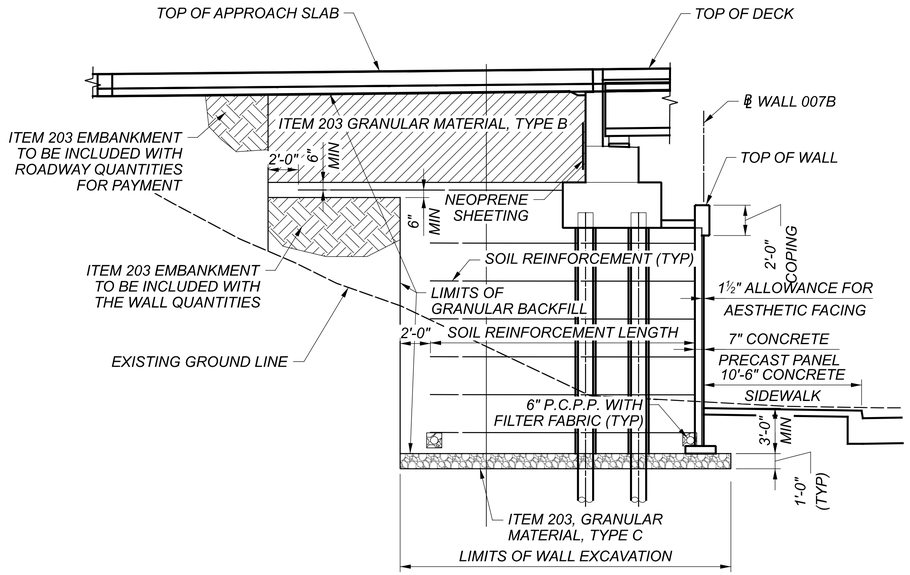
PROJECT ID
114161

SUBSET	TOTAL
33	45

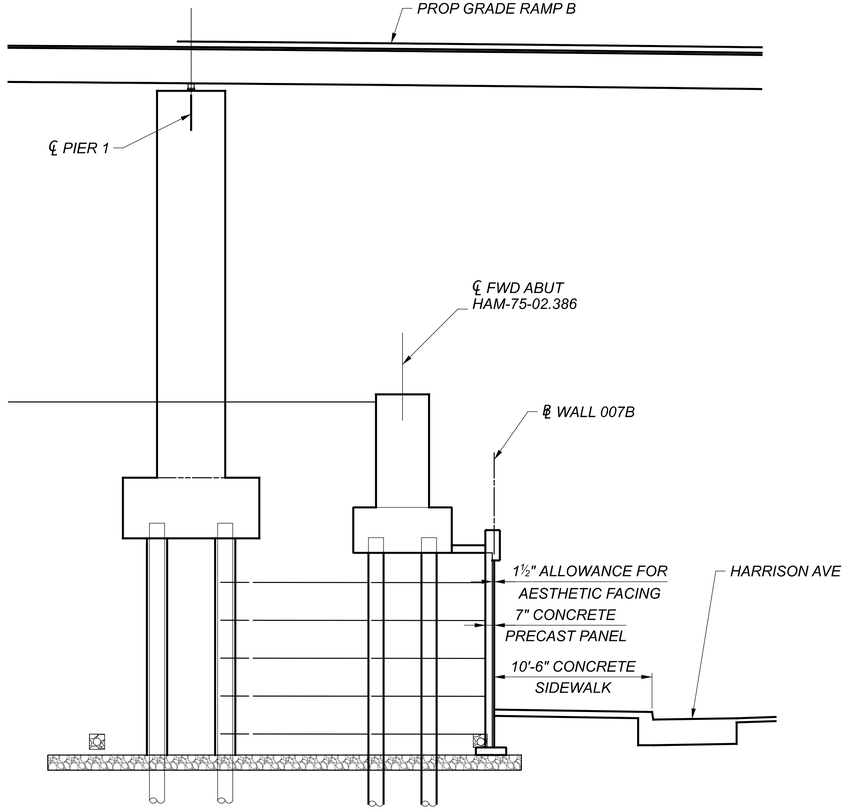
SHEET	TOTAL
P.370	463

HAM-75-1.95

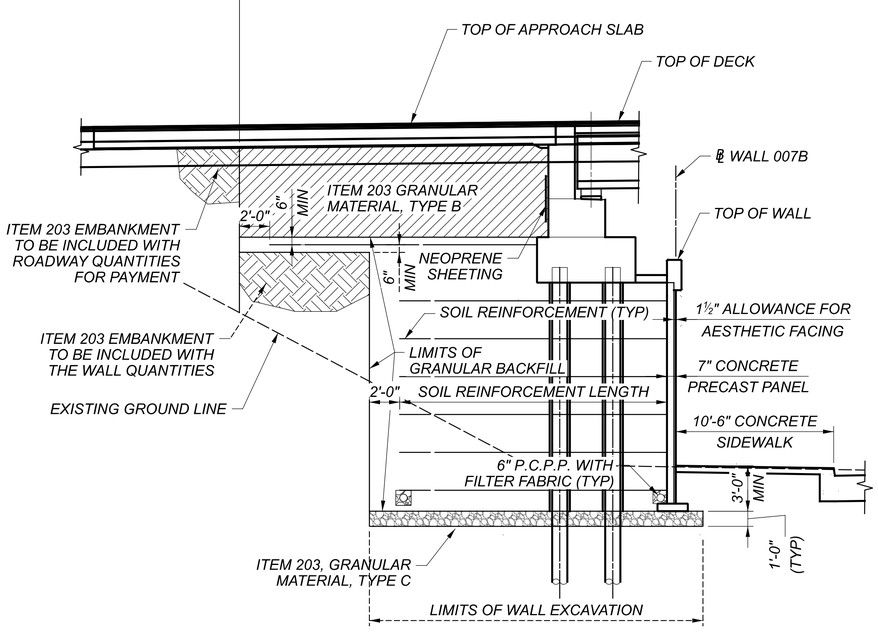
PENTABLE SUBSET: 1
SUBMITTAL: SUB_STG
PLOT DRIVER: OHDOT_PDF.pltcfg
PENTABLE: 114161_BW.tbl
MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:26:41 PM USER: stony
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161402-Engineering_GannettFleming\StructuresWall_007\Sheets\114161_WALL007_WX001.dgn



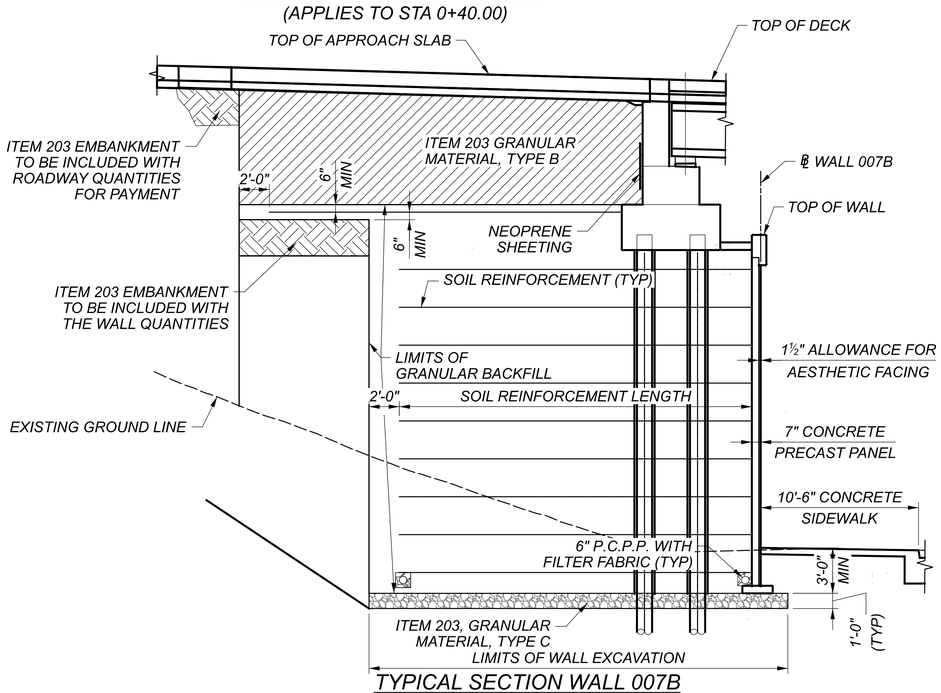
TYPICAL SECTION WALL 007B
(APPLIES TO STA 0+15.00)



TYPICAL SECTION WALL 007B
(APPLIES TO STA 0+40.00)



TYPICAL SECTION WALL 007B
(APPLIES TO STA 1+00.00)



TYPICAL SECTION WALL 007B
(APPLIES TO STA 2+90.00)

WALL SECTIONS
RETAINING WALL NO. 007B ALONG HARRISON AVENUE
STA 0+00.00 TO STA 3+21.52

SFN N/A

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 300
Columbus, OH 43231

DESIGNER	CHECKER
MTO	SAT

REVIEWER EFD 06/21/24

PROJECT ID 114161

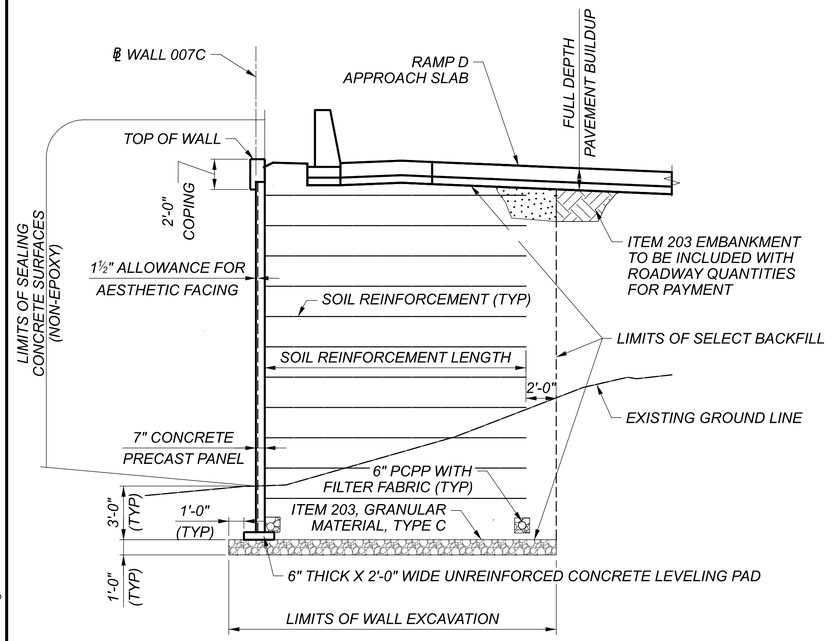
SUBSET	TOTAL
34	45

SHEET	TOTAL
P.371	463

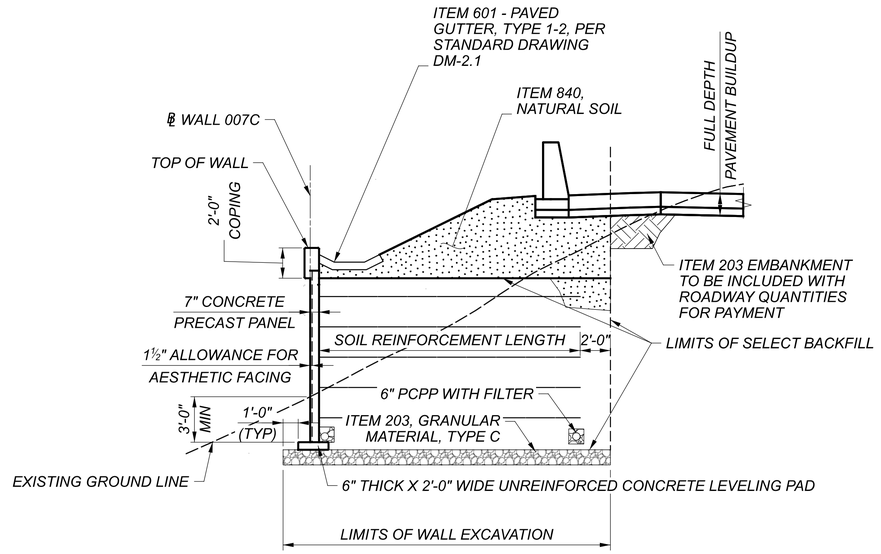
HAM-75-1.95

PENTABLE_SUBSET: 1 SUBMITTAL: SUB_STG PLOT DRIVER: OHDOT_PDF.pltcfg PENTABLE: 114161_BW.tbl

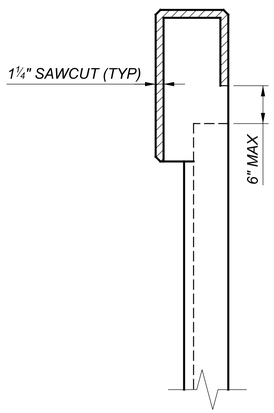
MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:29:00 PM USER: stony
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161402-Engineering_GannettFleming\Structures\Wall_007\Sheets\114161_WALL007_WX002.dgn



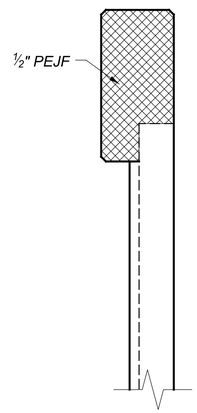
TYPICAL MSE SECTION OF WALL 007C
(APPLIES STA 0+07.80 TO STA 0+37.80)



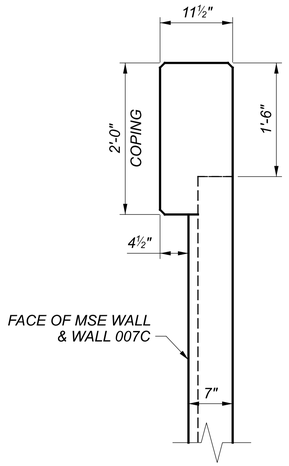
TYPICAL MSE SECTION OF WALL 007C
(APPLIES STA 0+37.80 TO STA 1+40.12)



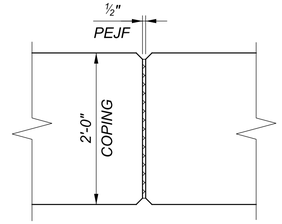
COPING CONTRACTION JOINTS



COPING EXPANSION JOINTS



MSE WALL COPING



COPING EXPANSION JOINT
(MAX JOINT SPACING IS 20'-0")

WALL SECTIONS
RETAINING WALL NO. 007C ALONG RAMP G
STA 0+00.00 TO STA 1+40.12

SFN
N/A

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
MTO	SAT

REVIEWER
EFD 06/21/24

PROJECT ID
114161

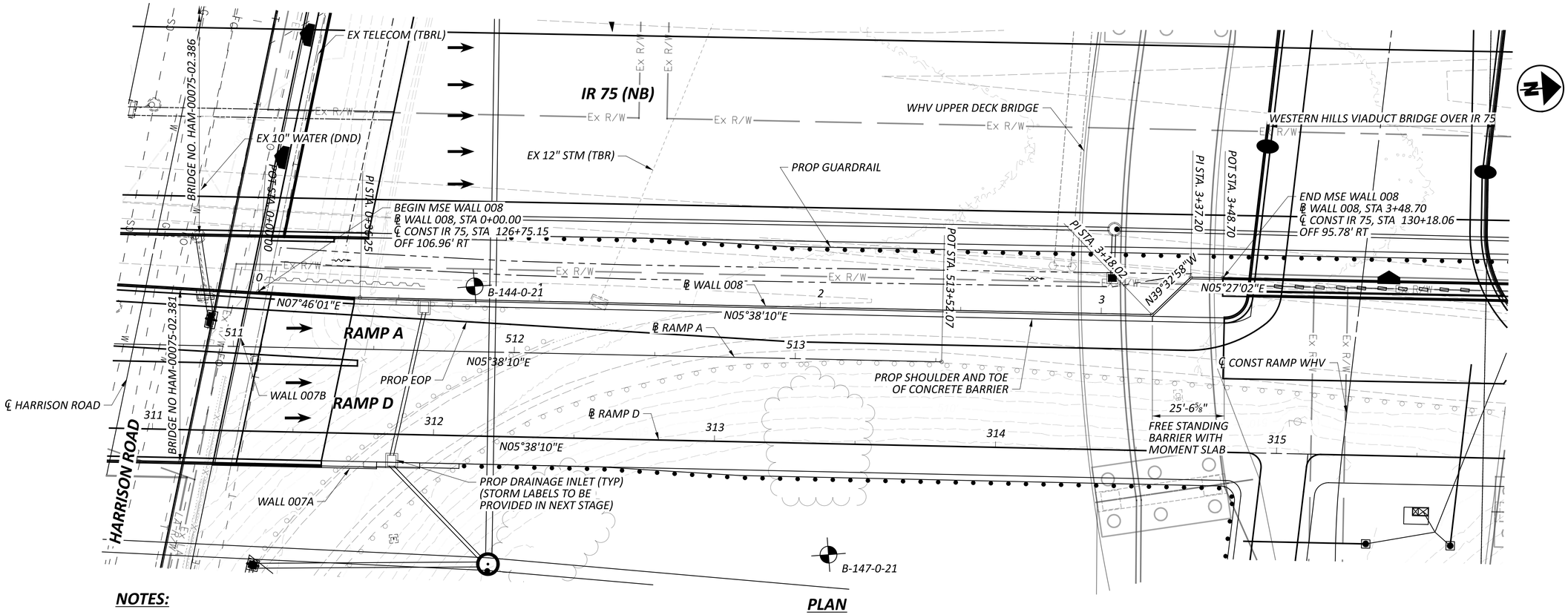
SUBSET	TOTAL
35	45

SHEET	TOTAL
P.372	463

HAM-75-1.95

PENTABLE SUBSET: 1 SUBMITTAL: SUB_STG PLOT DRIVER: OHDOT_PDF.pltcfg PENTABLE: 114161_BW.tbl

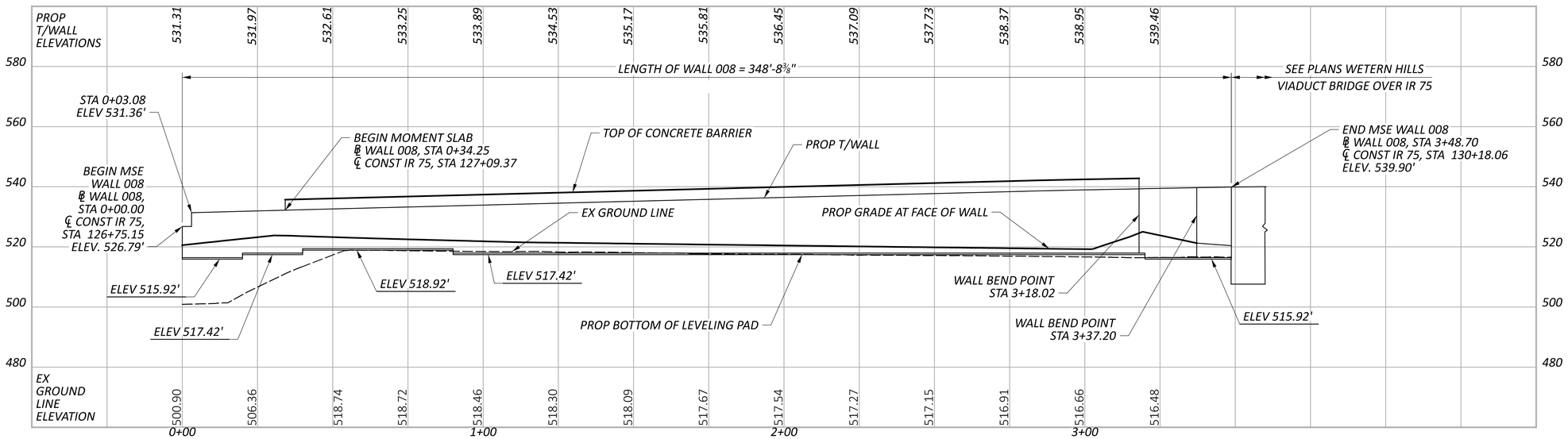
MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:31:44 PM USER: stony
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161402-Engineering_GannettFleming\Structures\Wall_007\Sheets\114161_WALL007_WX003.dgn



PLAN

NOTES:

1. ALL DIMENSIONS ARE MEASURED ALONG BASELINE OF WALL.
2. NOTE TO REVIEWER: WALL DRAINAGE DETAILS IN PLAN AND ELEVATION WILL PROVIDED AT STAGE 2.



PROFILE ALONG ℄ WALL 008

(WHV UPPER DECK BRIDGE NOT SHOWN FOR CLARITY)

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
RETAINING WALL 008 ALONG RAMP A AND RAMP D
STA 0+00.00 TO STA 3+48.70

SFN N/A

DESIGN AGENCY E M H & T

DESIGNER	CHECKER
AI	JGM

REVIEWER CAS 06/21/24

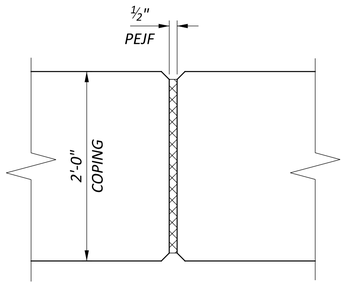
PROJECT ID 114161

SUBSET	TOTAL
36	45

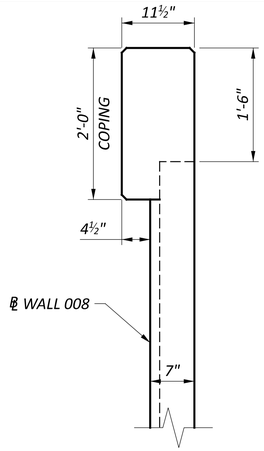
SHEET	TOTAL
P.373	463

HAM-75-1.95

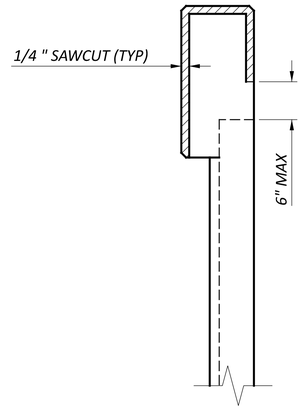
MODEL: 114161_WALL008_WP001 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 1:33:16 PM USER: aibrahimkhail
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMH&T\Structures\Wall_008\Sheets\114161_WALL008_WP001.dgn



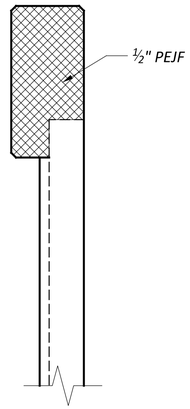
COPING EXPANSION JOINT



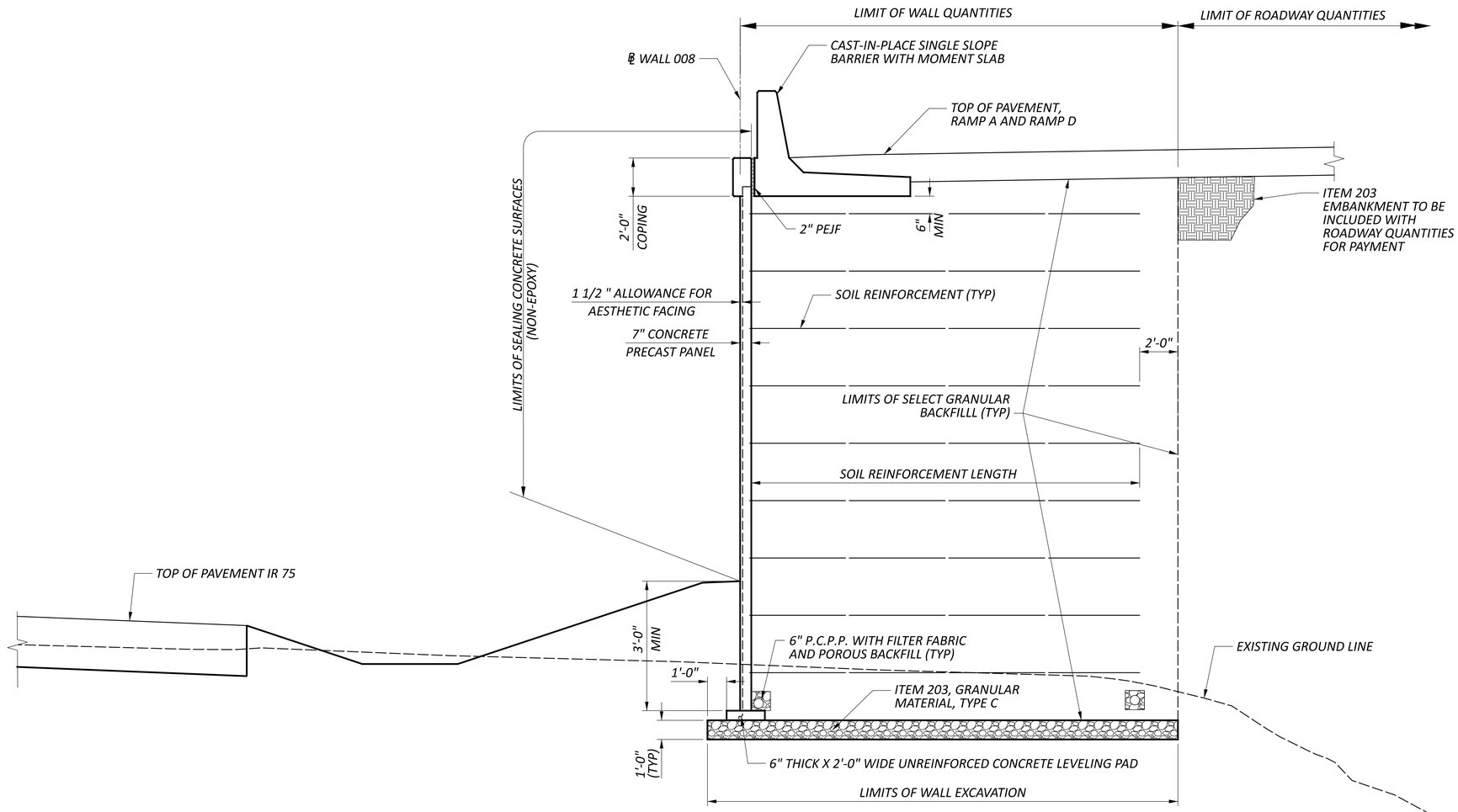
MSE WALL COPING DETAIL



COPING CONTRACTION JOINT DETAIL



COPING EXPANSION JOINT DETAIL



TYPICAL SECTION WALL 008

(APPLIES FROM STA 0+00.00 TO STA 3+48.70)

HORIZONTAL SCALE IN FEET
0 10 20 40

WALL SECTIONS
RETAINING WALL NO 008
ALONG RAMP A AND RAMP D

SFN N/A

DESIGN AGENCY EMH&T

DESIGNER	CHECKER
AI	JGM

REVIEWER CAS 06/21/24

PROJECT ID 114161

SUBSET	TOTAL
37	45

SHEET	TOTAL
P.374	463

HAM-75-1.95

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 1:33:40 PM USER: aibrahimkhail
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Structures\Wall_008\Sheets\114161_WALL008_WD001.dgn

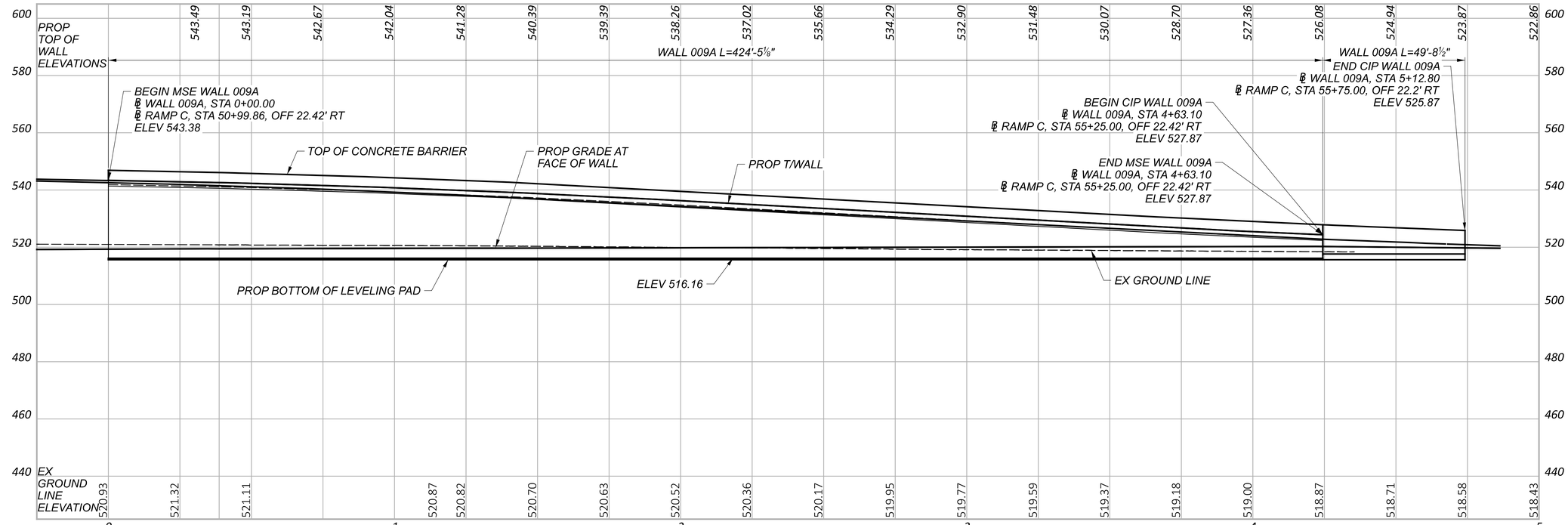
EX GAS DISPOSITION TBD
PROP WHV FOOTING BY OTHERS
EX SAN STORM DISPOSITION TBD
EX FIBER OPTIC DISPOSITION TBD
TEMPORARY WIRE FACE WALL (BY WHV CONTRACTOR CONSTRUCTING WALL 9B)
EX TELEPHONE DISPOSITION TBD
EX ELECTRIC DISPOSITION TBD
MSE WALL 009C
PROP EDGE OF SHOULDER
PROP EOP
PROP SHOULDER
RAMP C
℄ RAMP C
PROP EDGE OF SHOULDER
PROP EOP
342.51'
N11°26'22"E
442.65
N11°26'22"E
POT STA 0+00.00
8'-0" SHLDR
16'-0" LANE
6'-0" SHLDR
2-LANES @ 12'-0"=24'-0"
4'-0" SHLDR
MSE WALL 009B
RAMP G
PROP EOP
℄ RAMP G
℄ WALL 009A
PROP EOP
MSE WALL 009A
POT STA 4+74.08
BEGIN MSE WALL 009A
℄ WALL 009A, STA 0+00.00
℄ RAMP C, STA 50+99.86, OFF 22.42' RT
5 LANES @ 12'-0" = 60'-0"
EXISTING WESTERN HILLS VIADUCT
IR 75 (SB)
℄ CONST IR 75
PROP EOP
PROP EDGE OF SHOULDER
END MSE WALL 009A
℄ WALL 009A, STA 4+28.37
℄ RAMP C, STA 55+25.00, OFF 22.42' RT
BEGIN CIP WALL 009A
℄ WALL 009A, STA 4+28.37
℄ RAMP C, STA 55+25.00, OFF 22.42' RT
END CIP WALL 009A
℄ WALL 009A, STA 4+74.08
℄ RAMP C, STA 55+75.00, OFF 22.2' RT
52 53 54 55 1 2 3 4 133 134 135 136

CURVE DATA
P.I. STA. = 4+47.02
Δ = 01°59'07" RT
Dc = 01°30'32"
R = 3,797.30'
T = 65.79'
L = 131.57'
E = .57'

NOTE TO REVIEWER
LIMITS OF SELECT GRANULAR BACKFILL AND WALL DRAINAGE, PER BDM SECTION 201.4.1 WILL BE SHOWN AT STAGE 2.

NOTE
CIP WALLS WILL BE SHOWN SEPARATELY FROM THE MSE WALLS FOR STAGE 2 SUBMISSION.

PLAN

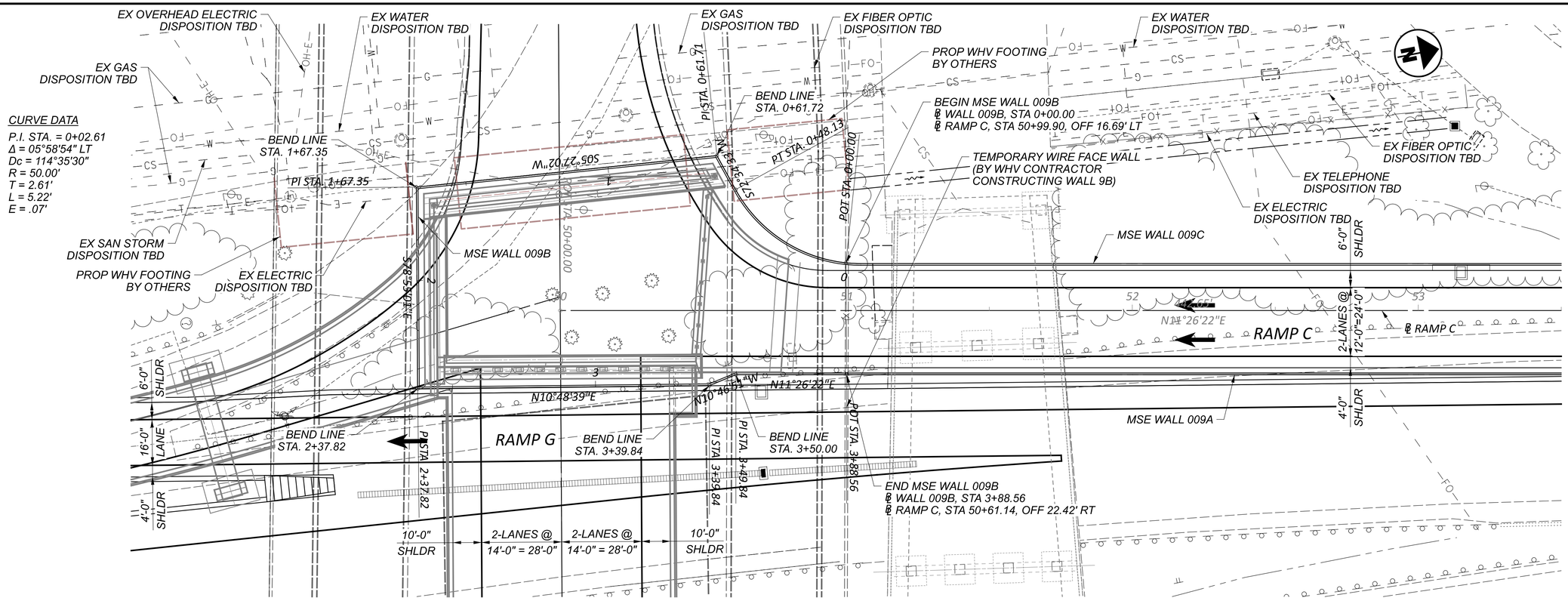


PROFILE ALONG ℄ WALL 009A

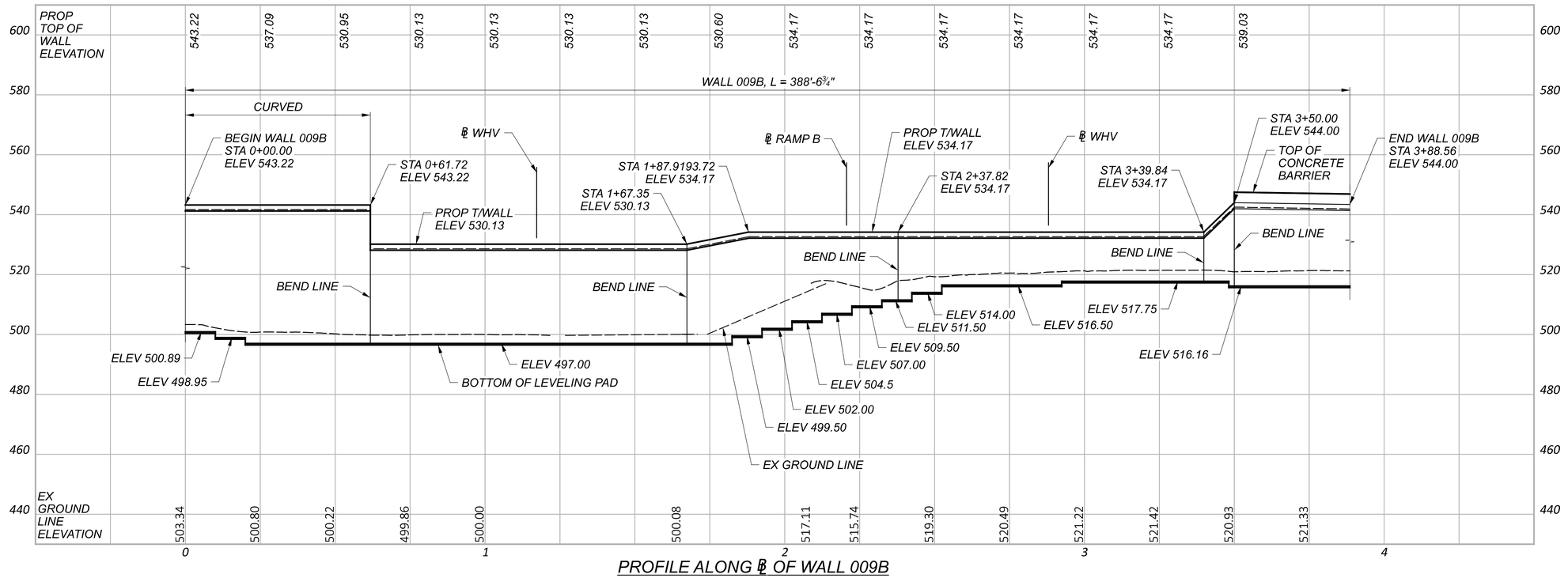
PLAN AND PROFILE
RETAINING WALL NO. 009A ALONG RAMP C & G
STA 0+00.00 TO STA 5+12.80

SFN	N/A
DESIGN AGENCY	GANNETT FLEMING, 2500 Corporate Exchange Dr. Suite 200, Columbus, OH 43231
DESIGNER	MTO
CHECKER	SAT
REVIEWER	EFD 06/21/24
PROJECT ID	114161
SUBSET	38
TOTAL	45
SHEET	P.375
TOTAL	463

HAM-75-1.95
PENTABLE SUBSET: 1
SUBMITTAL: SUB_STG
PLOT DRIVER: OHDOT_PDF.pltcfg
PENTABLE: 114161_BW.tbl
MODEL: Wall 9A - Plan and Profile 1 of 2 Sheet PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:33:08 PM USER: story
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\402-Engineering_GannettFleming\Structures\Wall_009\Sheets\114161_WALL009_WP001.dgn



PLAN



PROFILE ALONG ℄ OF WALL 009B

WALL 9B PLAN AND PROFILE
RETAINING WALL NO. 009B ALONG WHV AND RAMP B
STA 0+00.00 TO STA 3+55.06

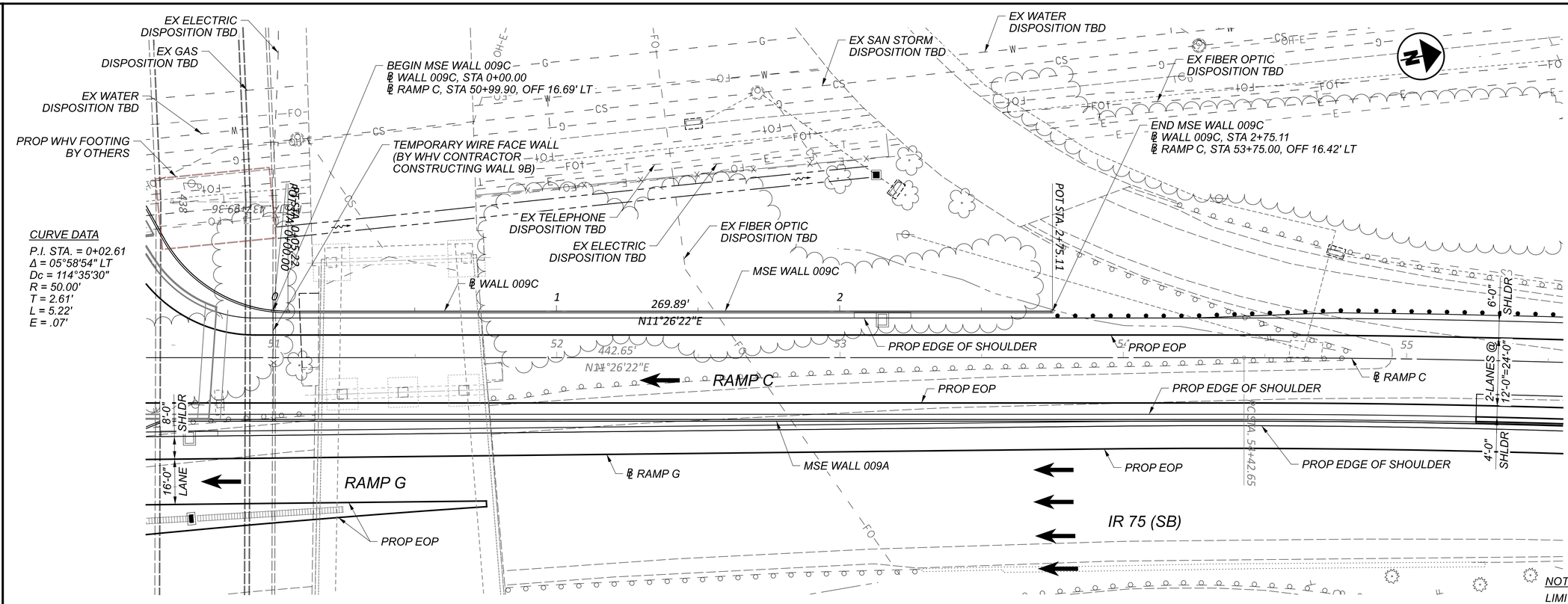
SFN	N/A
DESIGN AGENCY	GANNETT FLEMING, 2500 Corporate Exchange Dr. Suite 200, Columbus, OH 43231
DESIGNER	MTO
CHECKER	SAT
REVIEWER	EFD 06/21/24
PROJECT ID	114161
SUBSET	39
TOTAL	45
SHEET	P.376
TOTAL	463

HAM-75-1.95

PENTABLE SUBSET: 1 SUBMITTAL: SUB_STG PENTABLE: 114161_BW.tbl PLOT DRIVER: OHDOT_PDF.pltcfg

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:33:47 PM USER: stony
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\402-Engineering_GannettFleming\Structures\Wall_009\Sheets\114161_WALL009_WP002.dgn

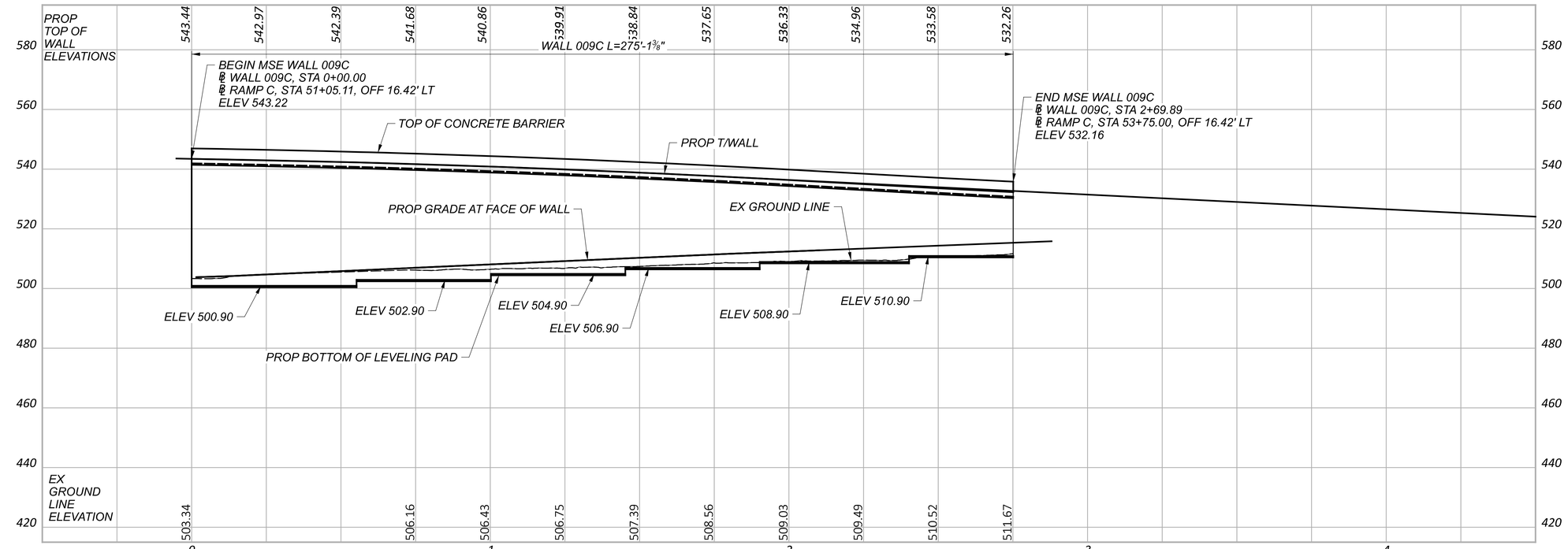
OHDOT_PDF.pltcfg



PLAN

NOTE TO REVIEWER

LIMITS OF SELECT GRANULAR BACKFILL AND WALL DRAINAGE, PER BDM SECTION 201.4.1 WILL BE SHOWN AT STAGE 2.



PROFILE ALONG ℄ WALL 009C

PLAN AND PROFILE
RETAINING WALL NO. 009C ALONG RAMP C
STA 0+00.00 TO STA 2+69.89

SFN N/A

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
MTO	SAT

REVIEWER EFD 06/21/24

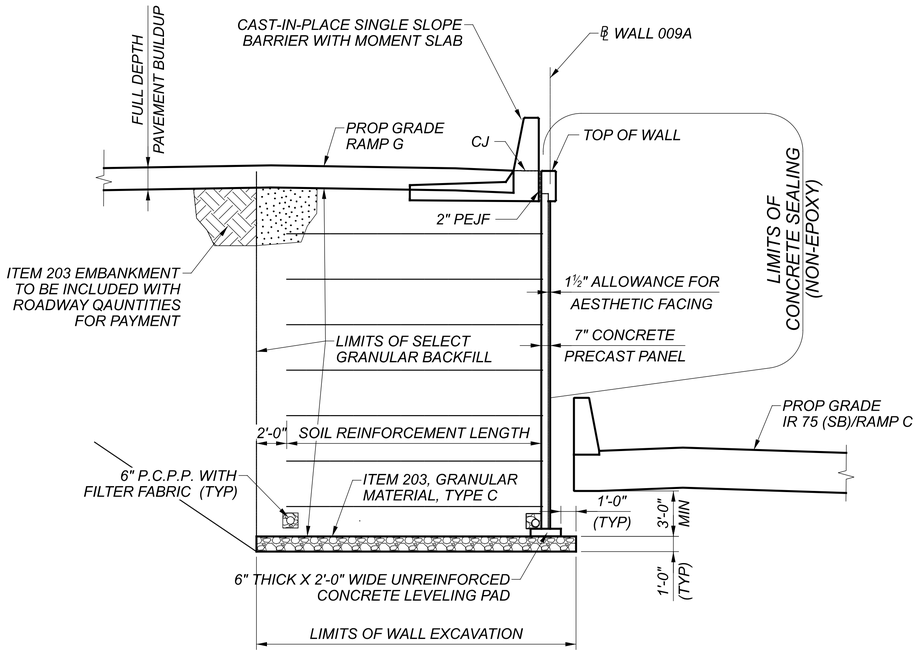
PROJECT ID 114161

SUBSET	TOTAL
40	45

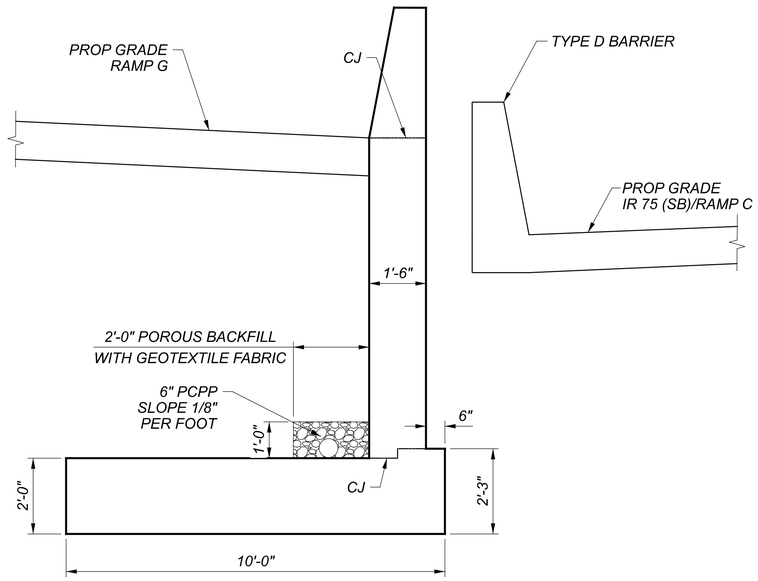
SHEET	TOTAL
P.377	463

HAM-75-1.95 PENTABLE SUBSET: 1 SUBMITTAL: SUB_STG PLOT DRIVER: OHDOT_PDF.pltcfg PENTABLE: 114161_BW.tbl

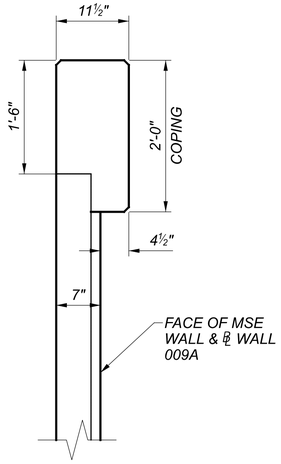
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pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\402-Engineering_GannettFleming\StructuresWall_009\Sheets\114161_WALL009_WP003.dgn



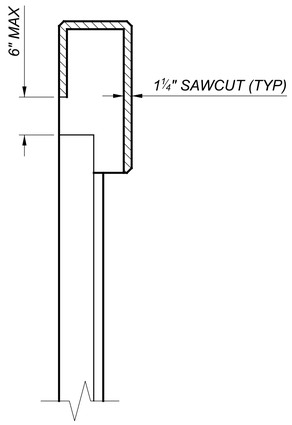
TYPICAL MSE SECTION OF WALL 009A
(APPLIES TO STA 0+00.00 TO STA 4+63.10)



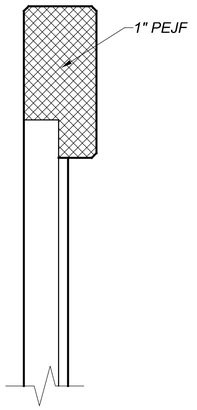
TYPICAL CAST IN PLACE SECTION OF WALL 009A
(APPLIES TO STA 4+63.10 TO STA 5+12.80)



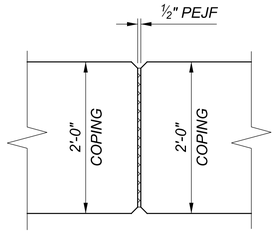
MSE WALL COPING



COPING CONTRACTION JOINTS



COPING EXPANSION JOINTS



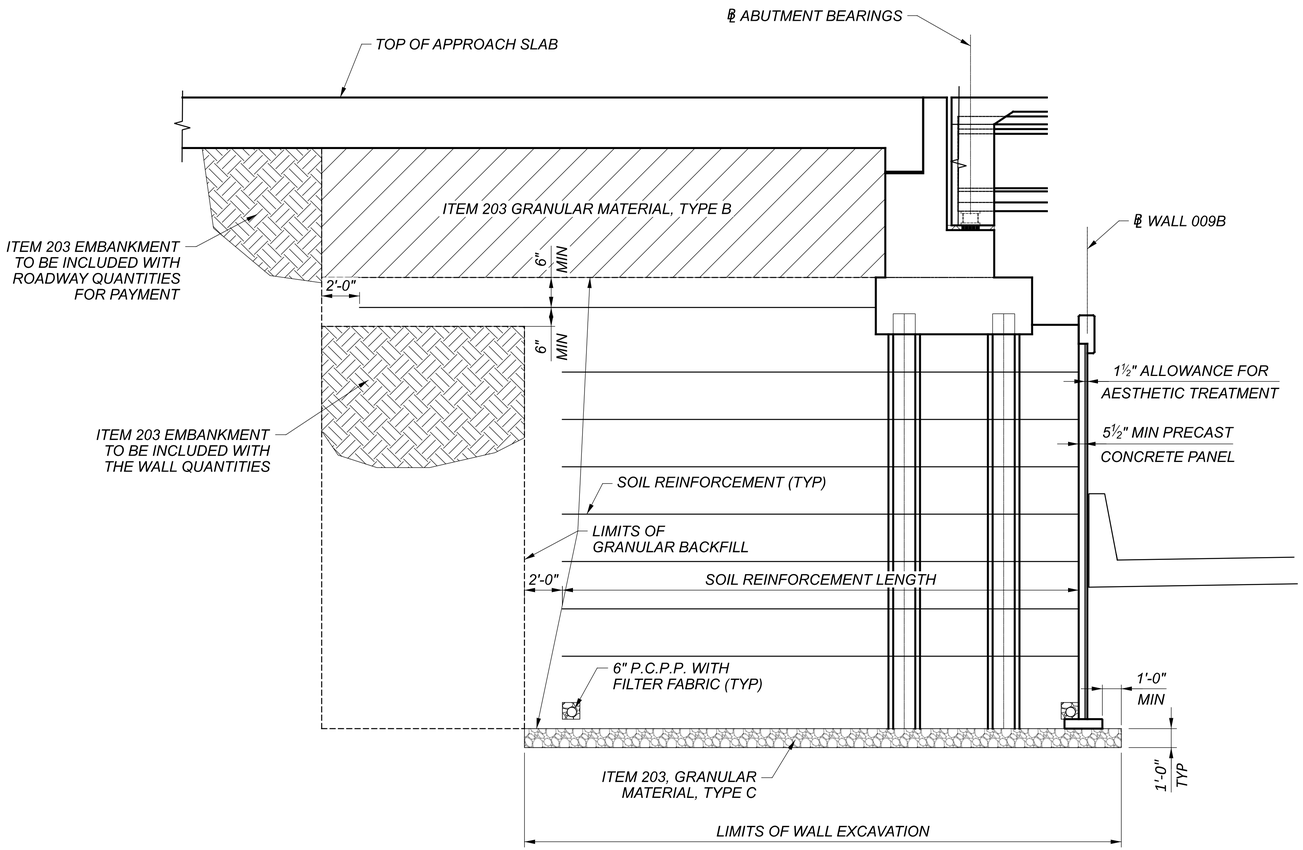
COPING EXPANSION JOINT
(MAX JOINT SPACING IS 20'-0")

WALL SECTIONS
RETAINING WALL NO. 009A ALONG RAMP C & G
STA 0+00.00 TO STA 5+12.80

SFN	N/A
DESIGN AGENCY	GANNETT FLEMING, 2500 Corporate Exchange Dr. Suite 200, Columbus, OH 43231
DESIGNER / CHECKER	MTO / SAT
REVIEWER	EFD 06/21/24
PROJECT ID	114161
SUBSET / TOTAL	41 / 45
SHEET / TOTAL	P.378 / 463

HAM-75-1.95

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:35:05 PM USER: stony
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161402-Engineering_GannettFleming\StructuresWall_009\Sheets\114161_WALL009_WX001.dgn
PENTABLE SUBSET: 1 SUBMITTAL: SUB_STG PLOT DRIVER: OHDOT_PDF.pltcfg PENTABLE: 114161_BW.tbl



TYPICAL SECTION WALL 009B
(APPLIES TO STA 1+00.00)

WALL SECTIONS
RETAINING WALL NO. 009B

SFN
N/A

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
MTO	SAT

REVIEWER
EFD 06/21/24

PROJECT ID
114161

SUBSET	TOTAL
42	45

SHEET	TOTAL
P.379	463

HAM-75-1.95

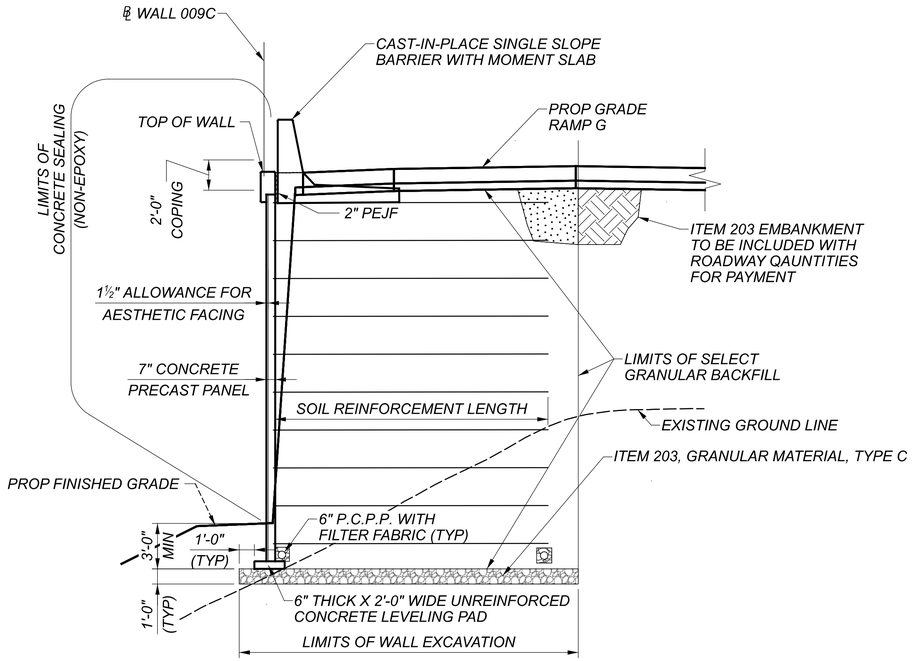
PENTABLE SUBSET: 1

SUBMITTAL: SUB_STG

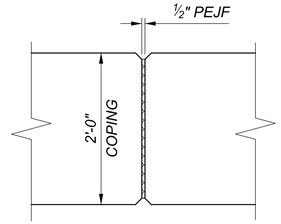
PLOT DRIVER: OHDOT_PDF.pltcfg

PENTABLE: 114161_BW.tbl

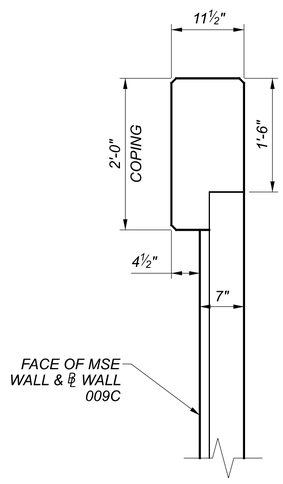
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pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161402-Engineering_GannettFleming\Structures\Wall_009\Sheets\114161_WALL009_WX002.dgn



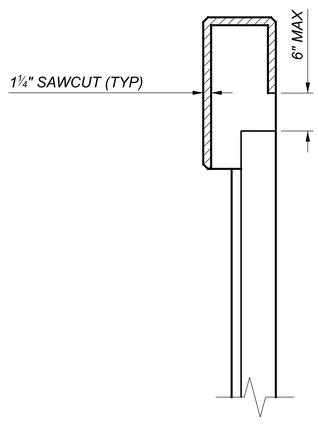
TYPICAL MSE SECTION OF WALL 009C
(APPLIES TO STA 0+0000 TO STA 2+69.89)



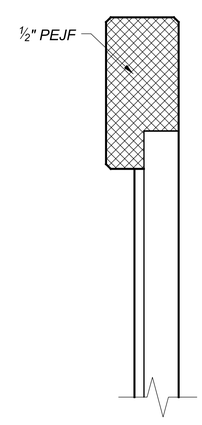
COPING EXPANSION JOINT
(MAX JOINT SPACING IS 20'-0")



MSE WALL COPING



COPING CONTRACTION JOINTS



COPING EXPANSION JOINTS

WALL SECTIONS
RETAINING WALL NO. 009C ALONG RAMP C
STA 0+00.00 TO STA 2+69.89

SFN
N/A

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
MTO	SAT

REVIEWER
EFD 06/21/24

PROJECT ID
114161

SUBSET	TOTAL
43	45

SHEET	TOTAL
P.380	463

HAM-75-1.95

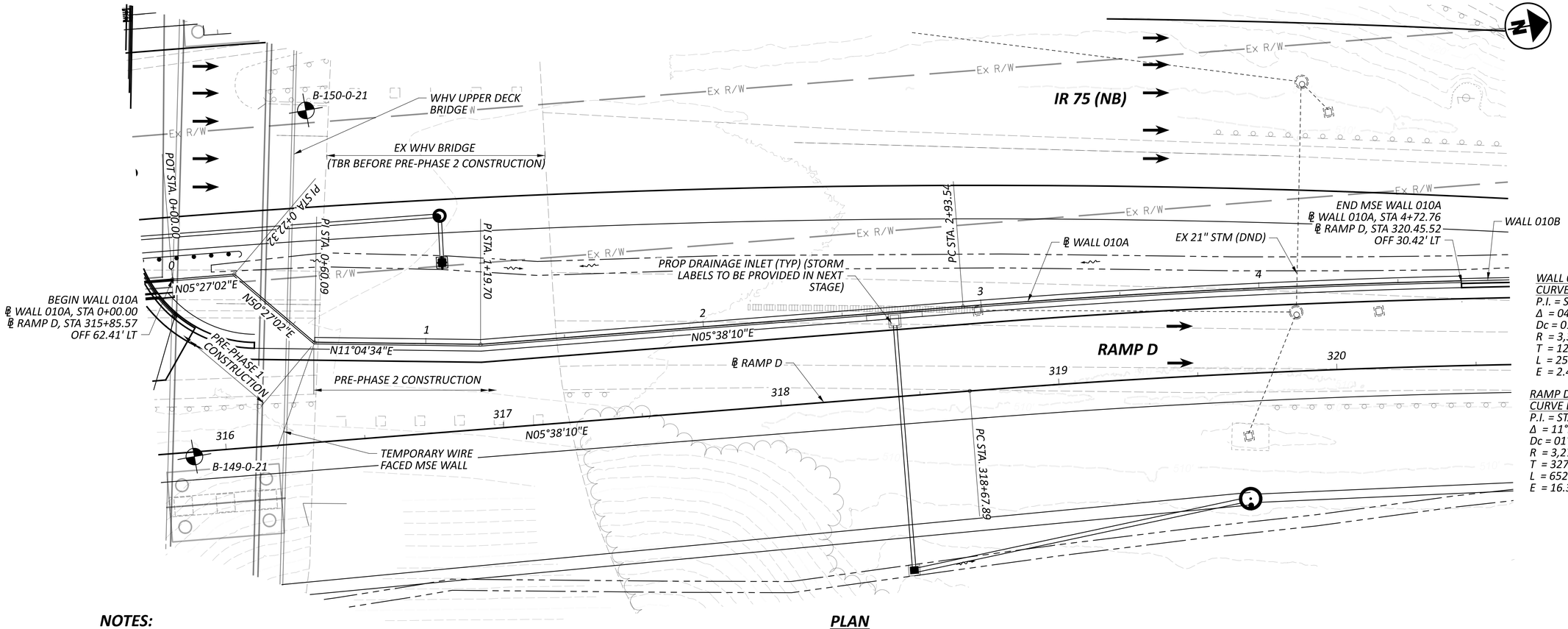
PENTABLE SUBSET: 1

SUBMITTAL: SUB_STG

PLOT DRIVER: OHDOT_PDF.pltcfg

PENTABLE: 114161_BW.tbl

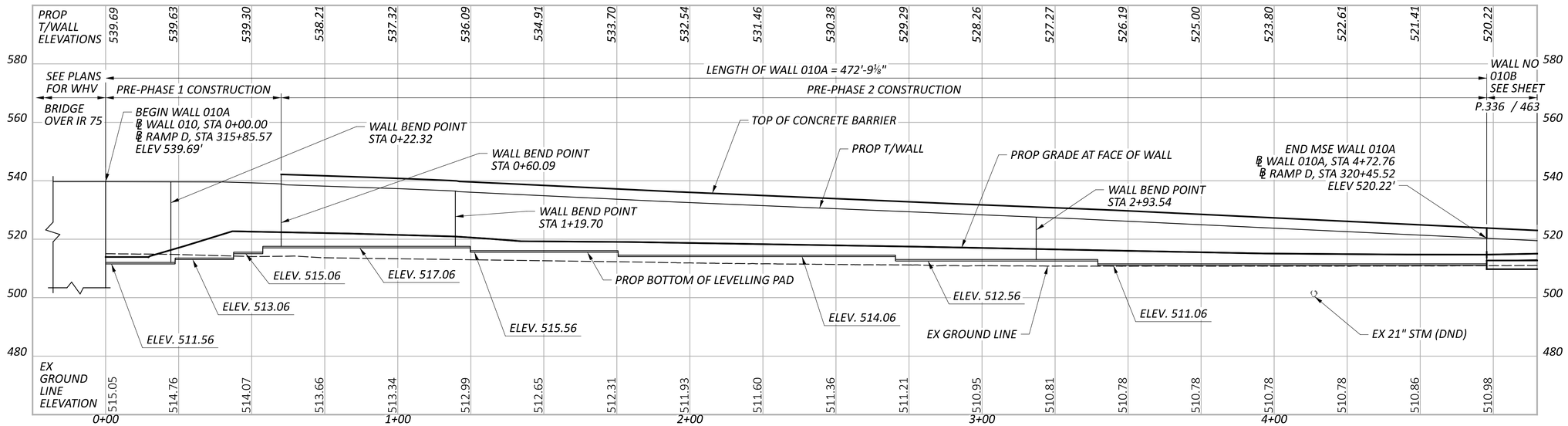
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pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161402-Engineering_GannettFleming\Structures\Wall_009\Sheets\114161_WALL009_WX003.dgn



NOTES:

1. ALL DIMENSIONS ARE MEASURED ALONG BASELINE OF WALL.
2. NOTE TO REVIEWER: WALL DRAINAGE DETAILS IN PLAN AND ELEVATION WILL PROVIDED AT STAGE 2.

PLAN



PROFILE ALONG ℄ WALL 010A

(WHV UPPER DECK BRIDGES NOT SHOWN FOR CLARITY)

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
RETAINING WALL NO 010A ALONG RAMP D
STA 0+0.00 TO STA 4+72.76

SFN N/A

DESIGN AGENCY EMH&T

DESIGNER	CHECKER
AI	JGM

REVIEWER CAS 06/21/24

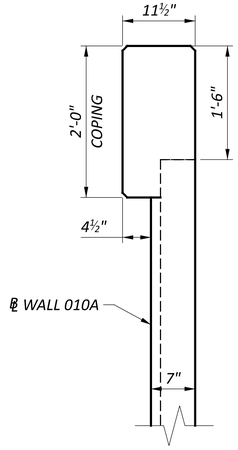
PROJECT ID 114161

SUBSET	TOTAL
44	45

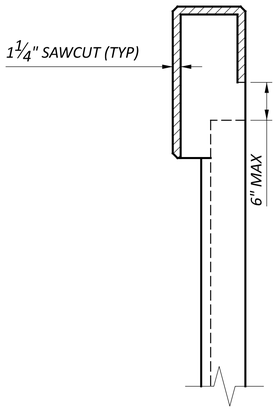
SHEET	TOTAL
P.381	463

HAM-75-1.95

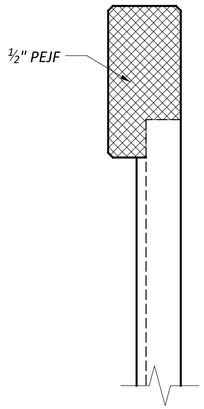
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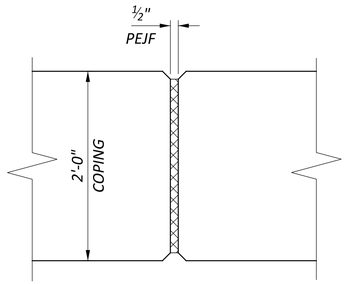
MSE WALL COPING DETAIL



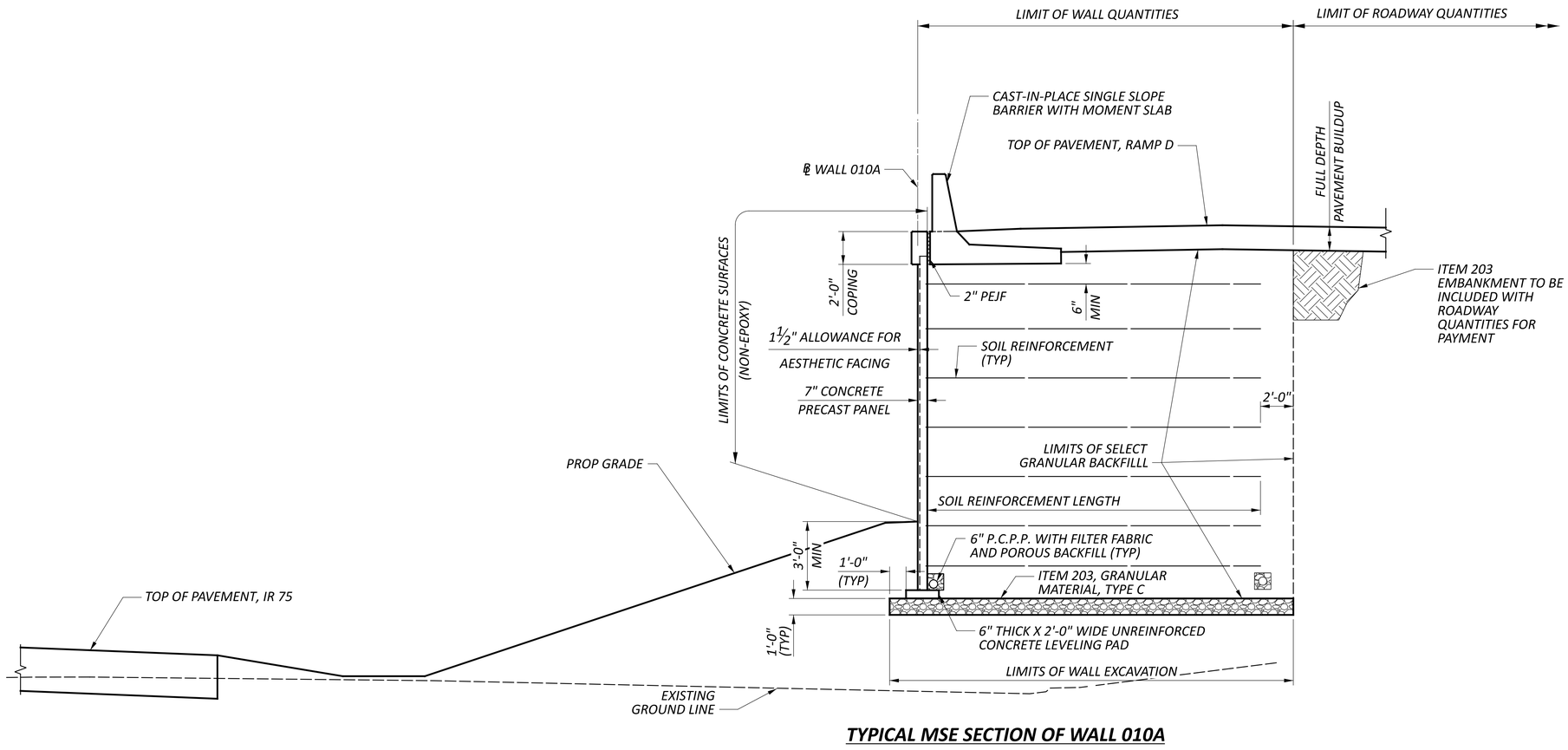
COPING CONTRACTION JOINT DETAIL



COPING EXPANSION JOINT DETAIL



COPING EXPANSION JOINT



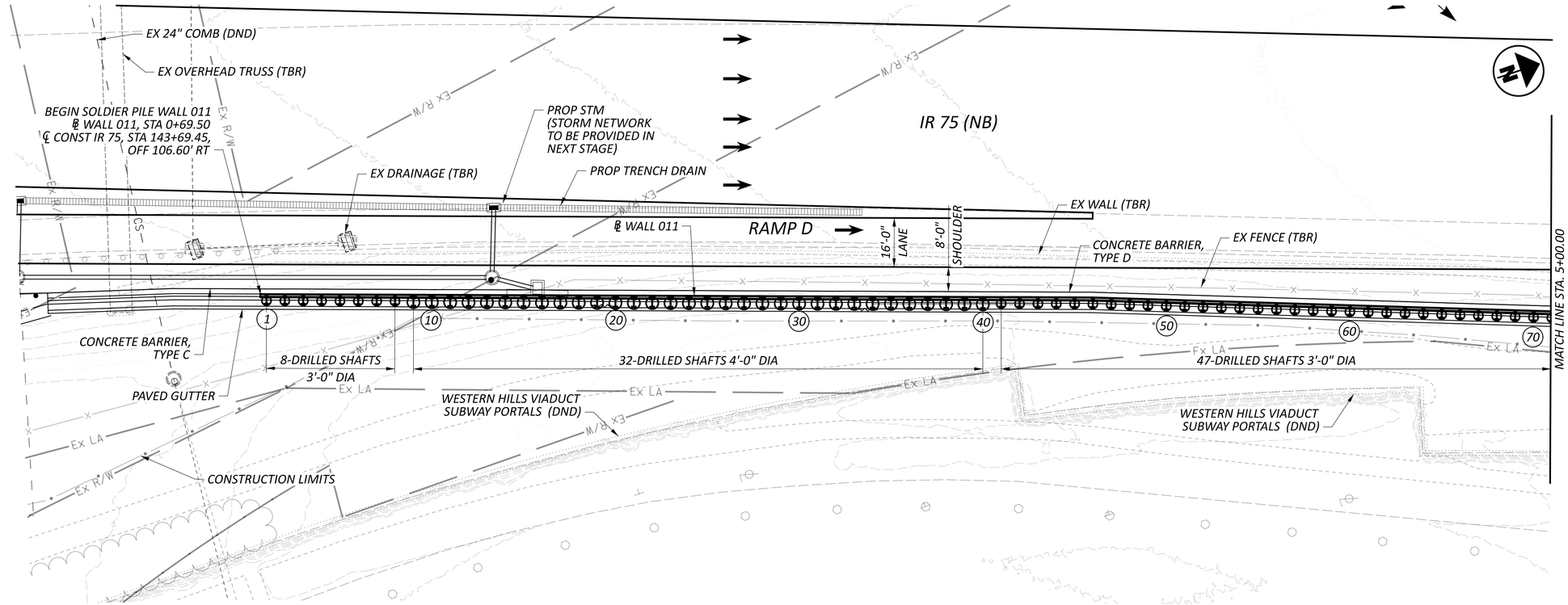
TYPICAL MSE SECTION OF WALL 010A

WALL SECTIONS
RETAINING WALL NO 010A
ALONG RAMP D

SFN	N/A
DESIGN AGENCY	EMH&T
DESIGNER	AI
CHECKER	JGM
REVIEWER	CAS 06/21/24
PROJECT ID	114161
SUBSET	45
TOTAL	45
SHEET	P.382
TOTAL	463

HAM-75-1.95

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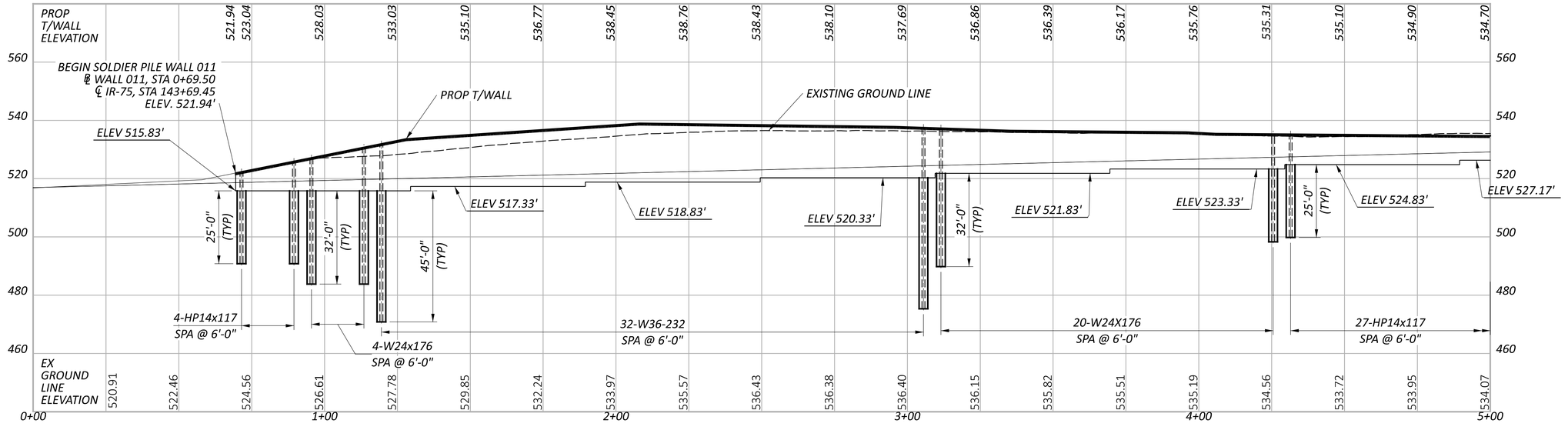
PLAN

LEGEND

(XX) - DRILLED SHAFT NUMBER

NOTES:

1. ALL DIMENSIONS ARE MEASURED ALONG BASELINE OF WALL.
2. NOTE TO REVIEWER: WALL DRAINAGE DETAILS IN PLAN AND ELEVATION WILL PROVIDED AT STAGE 2.



PROFILE ALONG ℄ WALL 011

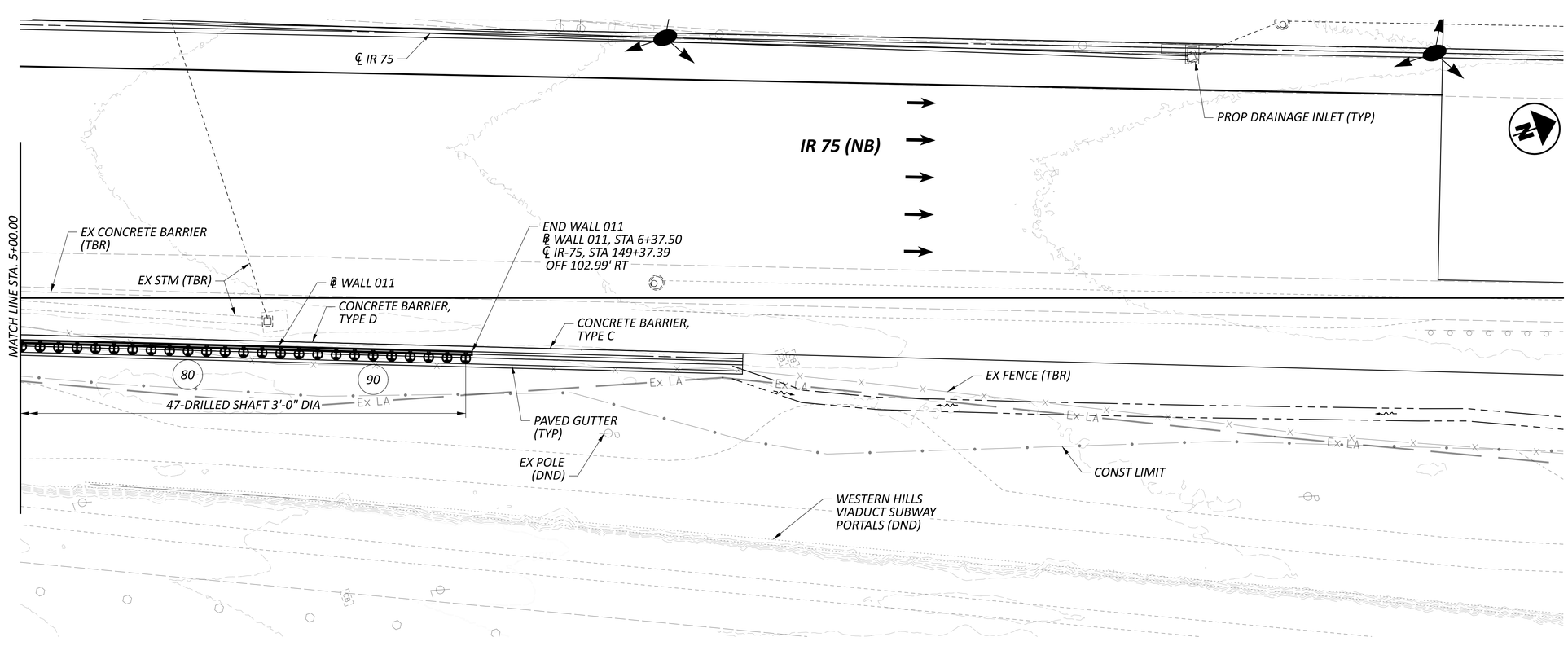
HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
RETAINING WALL NO 011 ALONG MAINLINE IR 75 AND RAMP D
STA 0+74.01 TO STA 5+00.00

SFN	N/A
DESIGN AGENCY	EMH&T
DESIGNER	AI
CHECKER	TDA
REVIEWER	CAS 06/21/24
PROJECT ID	114161
SUBSET	1
TOTAL	3
SHEET	P.383
TOTAL	463

HAM-75-1.95

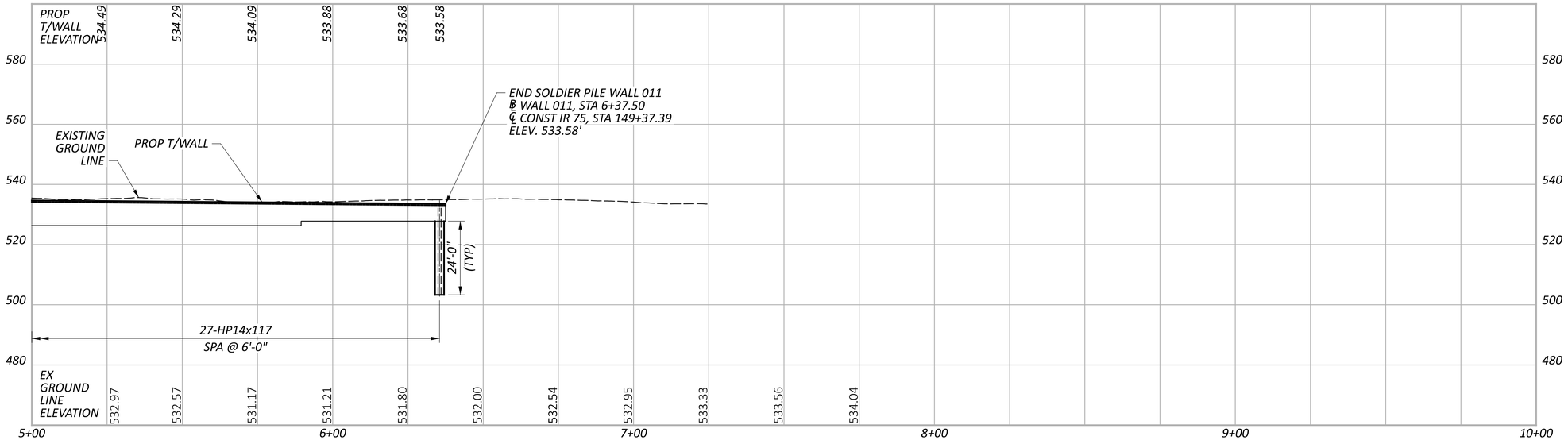
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PLAN

LEGEND

(XX) - DRILLED SHAFT NUMBER



PROFILE ALONG ℄ WALL 011

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
RETAINING WALL NO 011 ALONG MAINLINE IR 75 AND RAMP D
STA 5+00.00 TO STA 6+37.50

SFN N/A

DESIGN AGENCY EMH&T

DESIGNER	CHECKER
AI	TDA

REVIEWER CAS 06/21/24

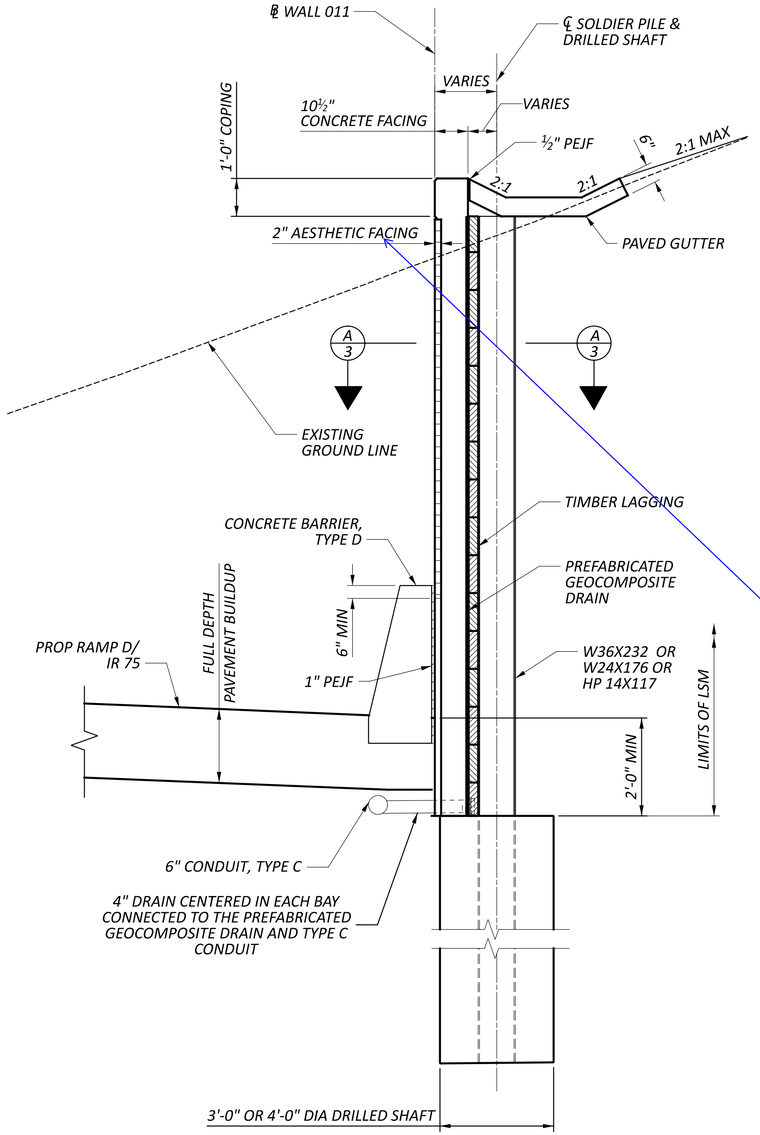
PROJECT ID 114161

SUBSET	TOTAL
2	3

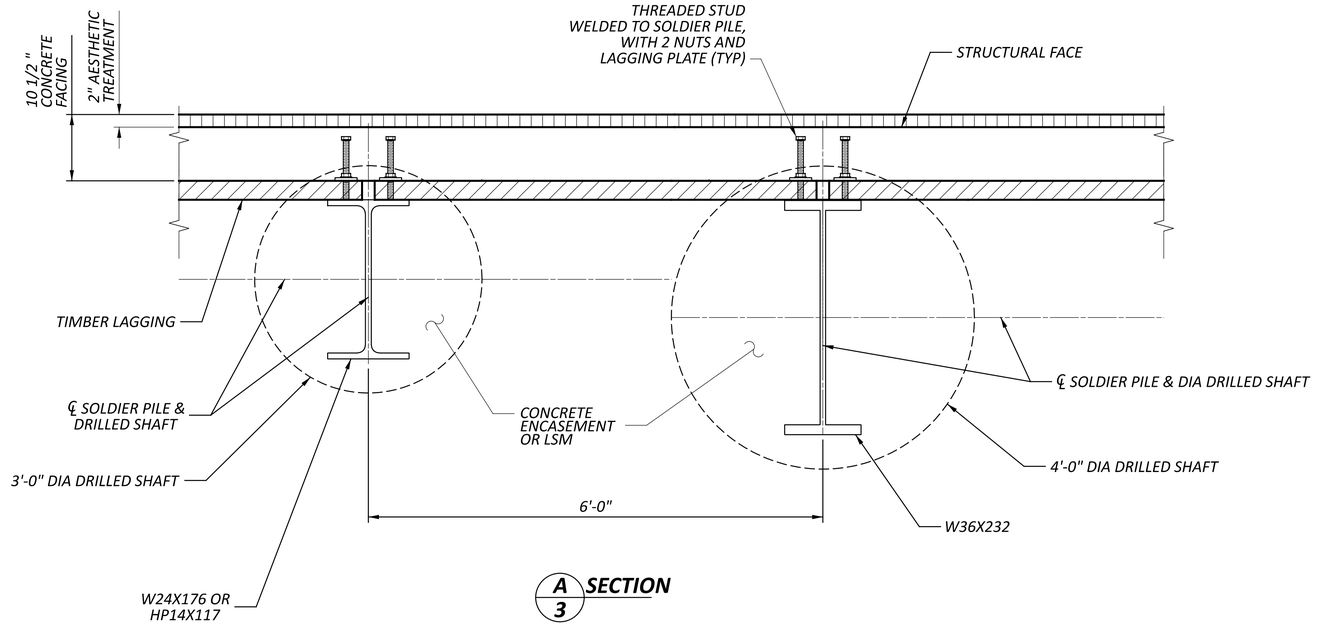
SHEET	TOTAL
P.384	463

HAM-75-1.95

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TYPICAL SECTION WALL 011
SOLDIER PILE WALL



A/3 SECTION

Include texture and color. Ashlar Stone Light neutral color.

WALL SECTIONS
RETAINING WALL NO 011
ALONG MAINLINE IR-75 AND RAMP D

HAM-75-1.95

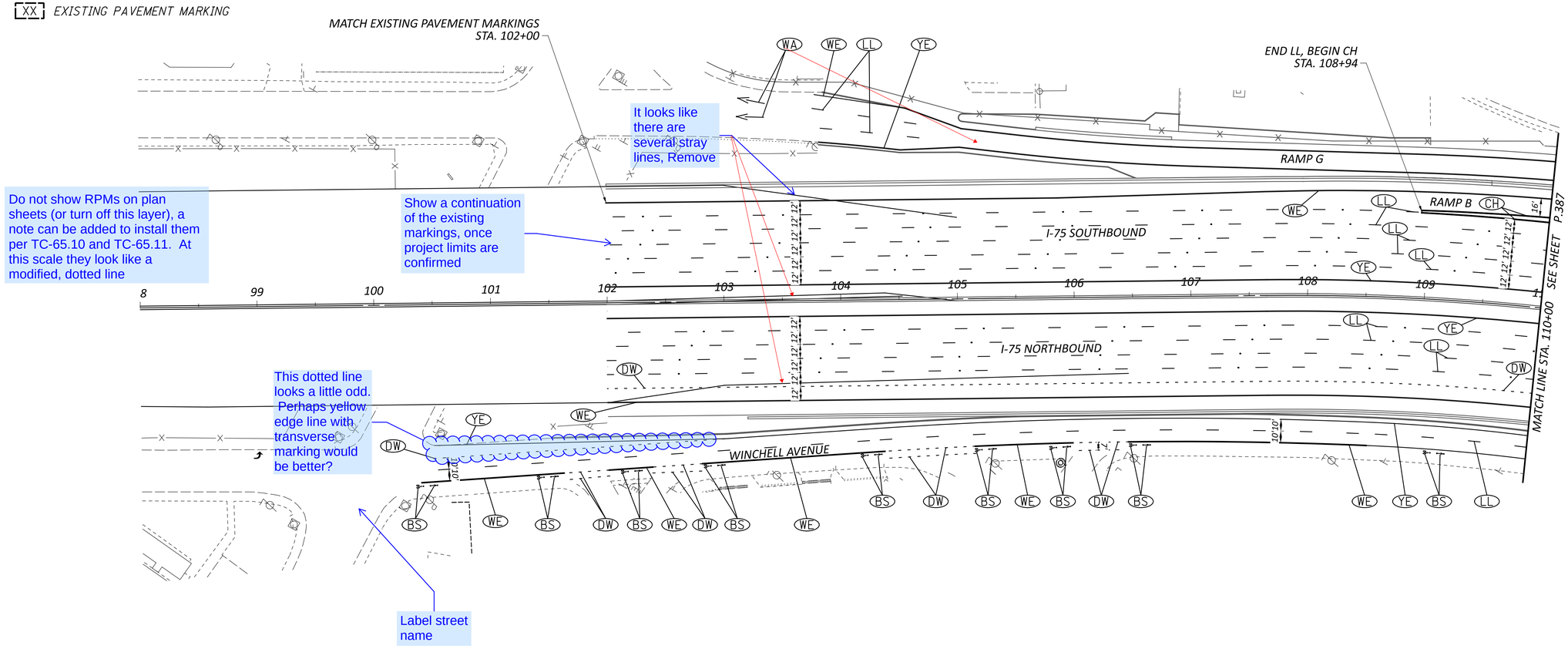
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SFN	N/A
DESIGN AGENCY	EMH&T
DESIGNER	AI
CHECKER	TDA
REVIEWER	CAS 06/21/24
PROJECT ID	114161
SUBSET	3
TOTAL	3
SHEET	P.385
TOTAL	463

ODOT LINE SPECIFICATIONS	
DY	CENTER LINE, 4", SOLID DOUBLE YELLOW
LL	LANE LINE, 6", WHITE
CH	CHANNELIZING LINE, 12", WHITE
CV	CHEVRON LINE, 24", WHITE
SL	STOP LINE, 24", WHITE
WE	EDGE LINE, 6", WHITE
YE	EDGE LINE, 6", YELLOW
A	LANE ARROW, WHITE
DW	DOTTED LINE, 6", WHITE
WA	WRONG WAY ARROW, WHITE
RPM	RAISED PAVEMENT MARKINGS
(XX)	PROPOSED PAVEMENT MARKING (ITEM 647)
[XX]	EXISTING PAVEMENT MARKING

All interstate and ramp markings (ODOT maintained) are to be R/WR. Use Thermo on asphalt, epoxy on concrete and 645 preformed, type A4 tape on concrete bridge decks. City maintained streets are their preference in marking material, widths, etc.

Add BS to legend



NOTE TO REVIEWERS:
THE DESIGN SOUTH OF STATION 102+00 IS TO BE DETERMINED AT THIS STAGE AND WILL BE REFINED IN STAGE 2 WITH ONGOING COORDINATION AND CONSTRUCTION SCHEDULE OF HAM-75-1.05, PID 113361.

HORIZONTAL SCALE IN FEET
0 25 50 100

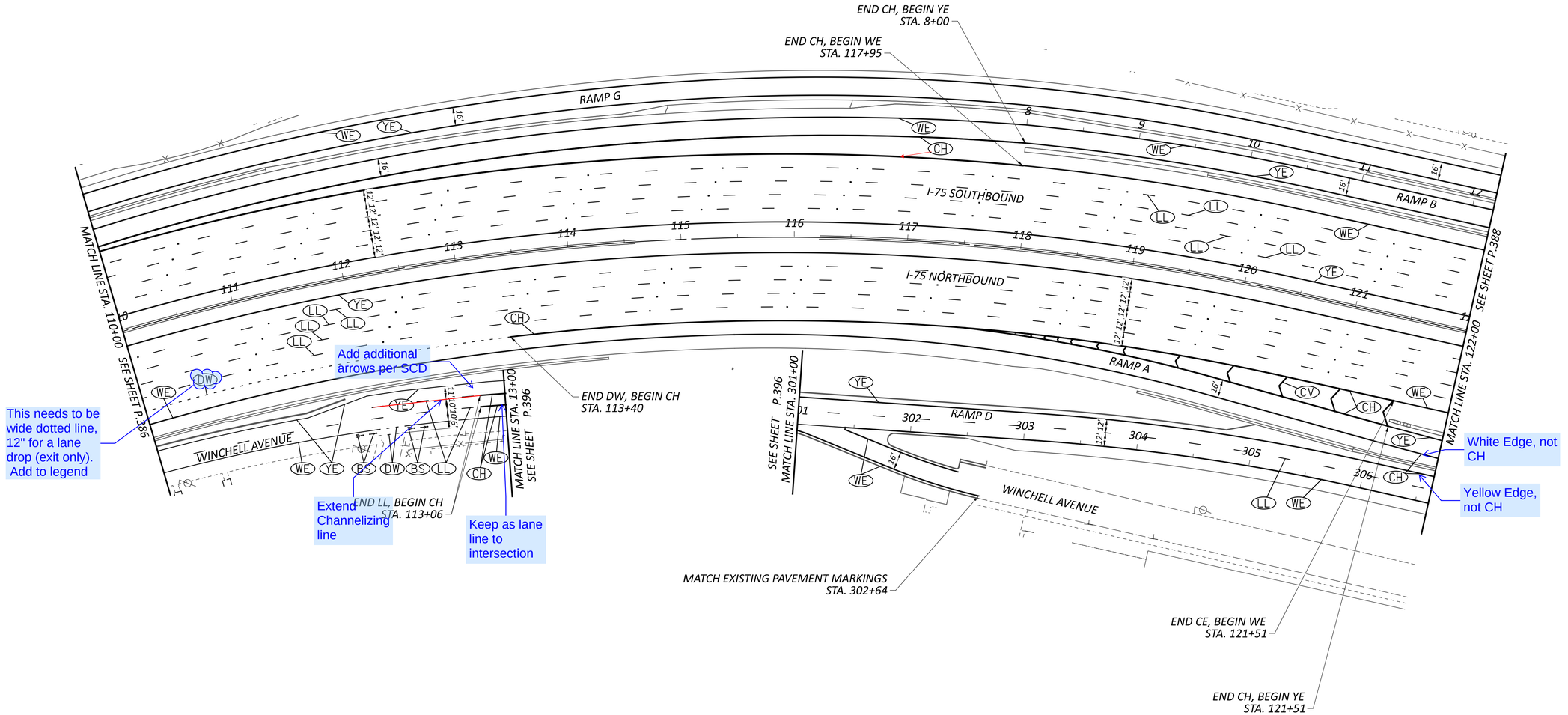
SIGN AND PAVEMENT MARKING PLAN
I-75 MAINLINE - STA. 98+00 TO 110+00

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 05-24-24
PROJECT ID 114161
SHEET P.386 TOTAL 463

HAM-75-1.95

MODEL: I75 - Sheet 1 Sta. 98+00 to 110+00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/21/2024 TIME: 8:35:01 AM USER: Anthony Collinger
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NOTES:
SEE SHEET P.386 FOR SIGNING AND PAVEMENT MARKING LEGEND.

HORIZONTAL SCALE IN FEET
0 25 50 100

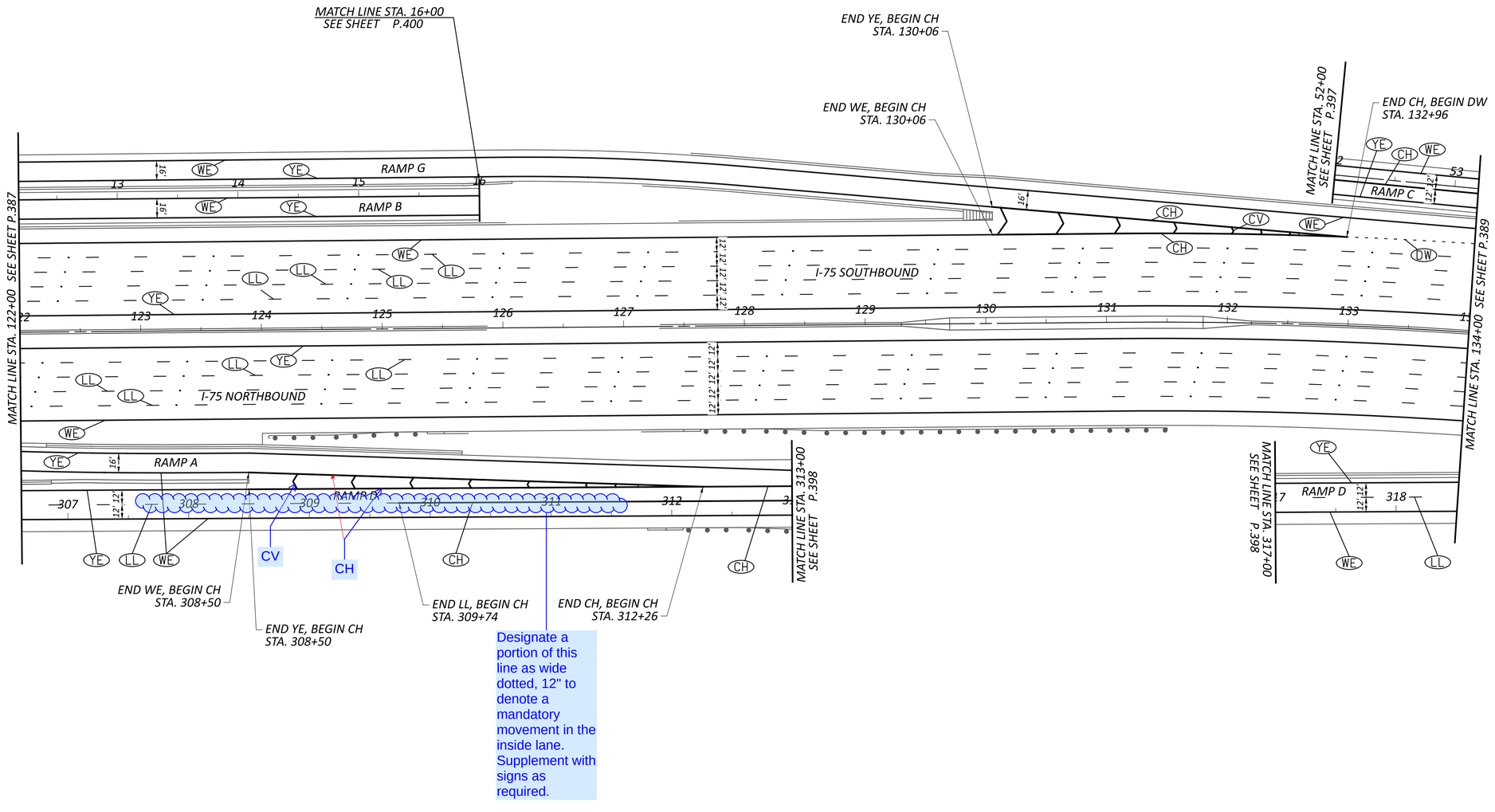
SIGN AND PAVEMENT MARKING PLAN
I-75 MAINLINE - STA. 110+00 TO 122+00

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 05-24-24
PROJECT ID 114161
SHEET P.387 TOTAL 463

HAM-75-1.95

MODEL: I75 - Sheet 2 Sta. 110+00 to 122+00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/21/2024 TIME: 8:36:54 AM USER: Anthony Collinger
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NOTES:
SEE SHEET P.386 FOR SIGNING AND PAVEMENT MARKING LEGEND.

HORIZONTAL SCALE IN FEET
0 25 50 100

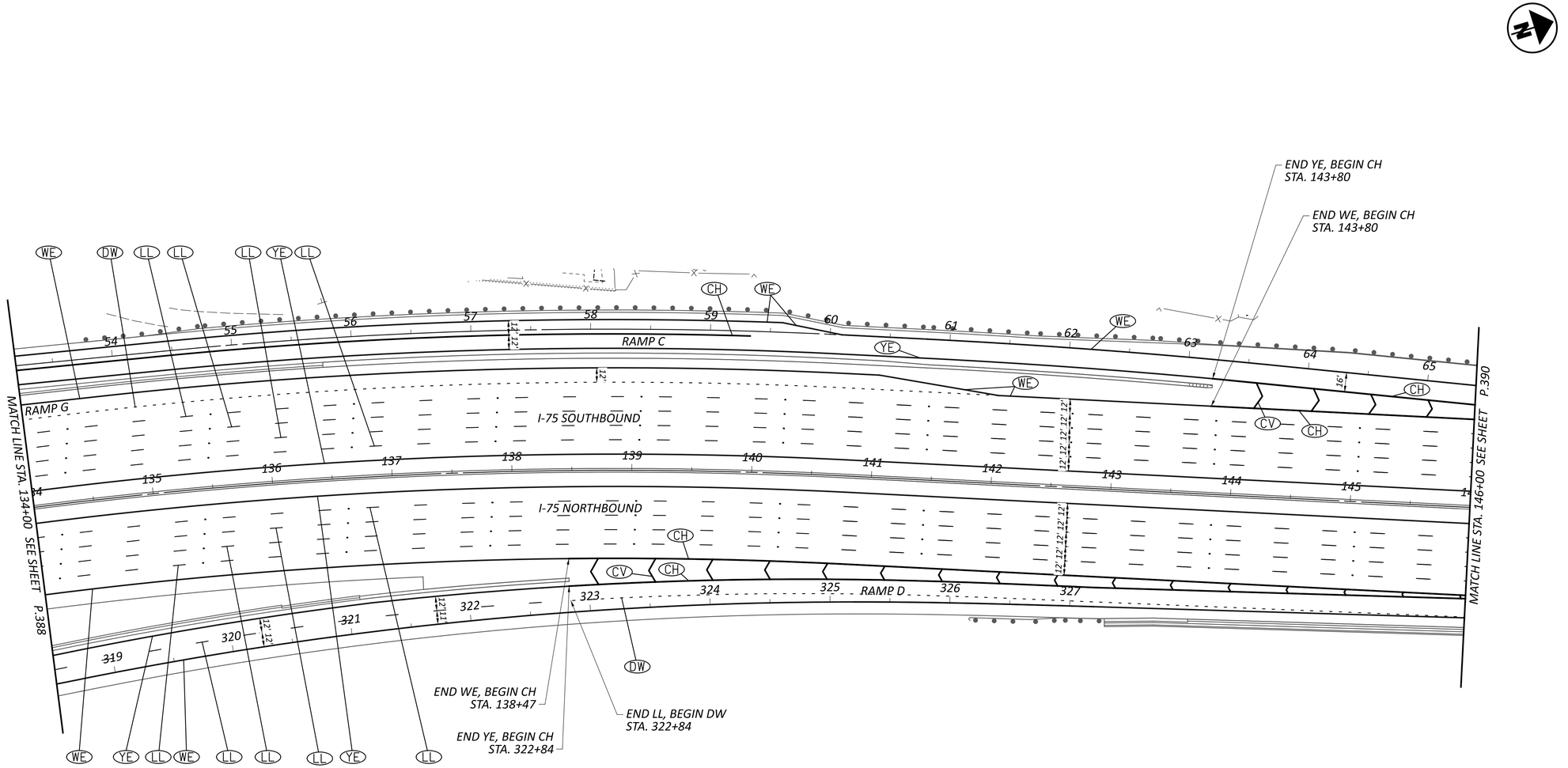
SIGN AND PAVEMENT MARKING PLAN
I-75 MAINLINE - STA. 122+00 TO 134+00

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 05-24-24
PROJECT ID 114161
SHEET P.388 TOTAL 463

HAM-75-1.95

MODEL: I75 - Sheet 3 Sta. 122+00 to 134+00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/21/2024 TIME: 8:36:57 AM USER: Anthony Collinger
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NOTES:
SEE SHEET P.386 FOR SIGNING AND PAVEMENT MARKING LEGEND.

HORIZONTAL SCALE IN FEET
0 25 50 100

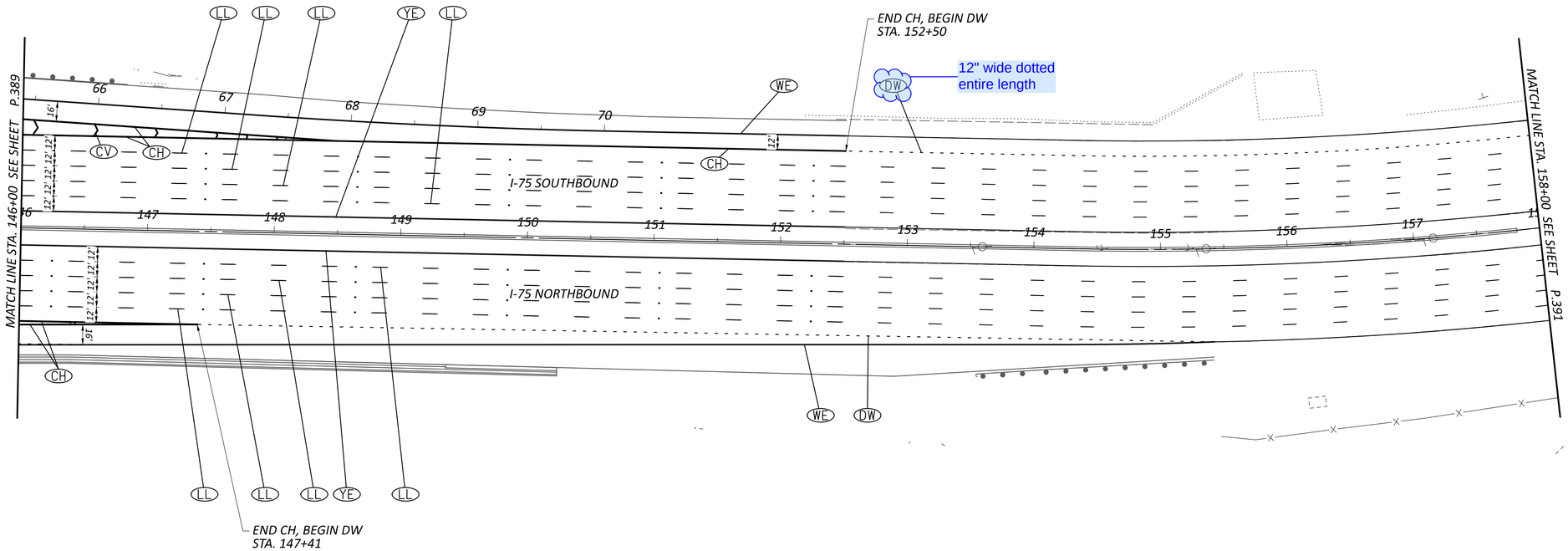
SIGN AND PAVEMENT MARKING PLAN
I-75 MAINLINE - STA. 134+00 TO 146+00

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 05-24-24
PROJECT ID 114161
SHEET P.389 TOTAL 463

HAM-75-1.95

MODEL: I75 - Sheet 4 Sta. 134+00 to 146+00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/21/2024 TIME: 8:37:00 AM USER: Anthony Collinger
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NOTES:
SEE SHEET P.386 FOR SIGNING AND PAVEMENT MARKING LEGEND.

HORIZONTAL
SCALE IN FEET
0 25 50 100

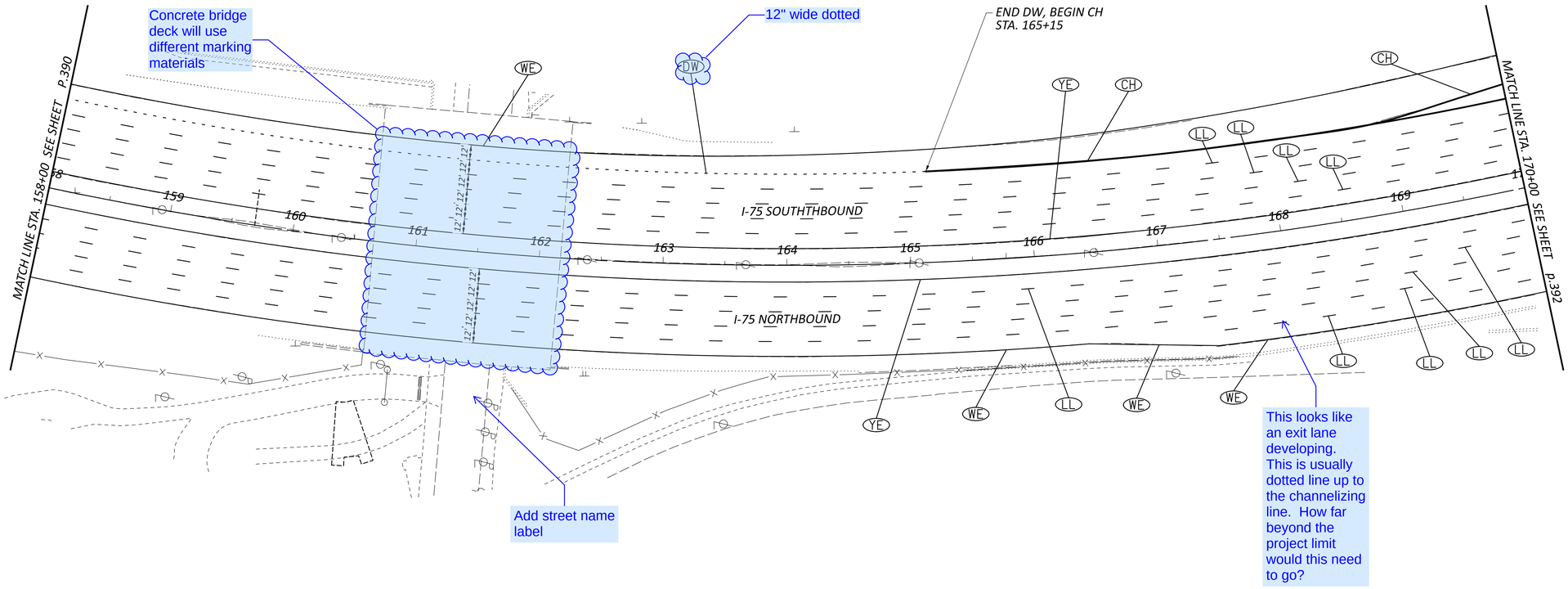
SIGN AND PAVEMENT MARKING PLAN
I-75 MAINLINE - STA. 146+00 TO 158+00

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 05-24-24
PROJECT ID 114161
SHEET P.390 TOTAL 463

HAM-75-1.95

MODEL: I75 - Sheet 5 Sta. 146+00 to 158+00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/21/2024 TIME: 8:37:01 AM USER: Anthony Collinger
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NOTES:
SEE SHEET P.386 FOR SIGNING AND PAVEMENT MARKING LEGEND.

HORIZONTAL SCALE IN FEET
0 25 50 100

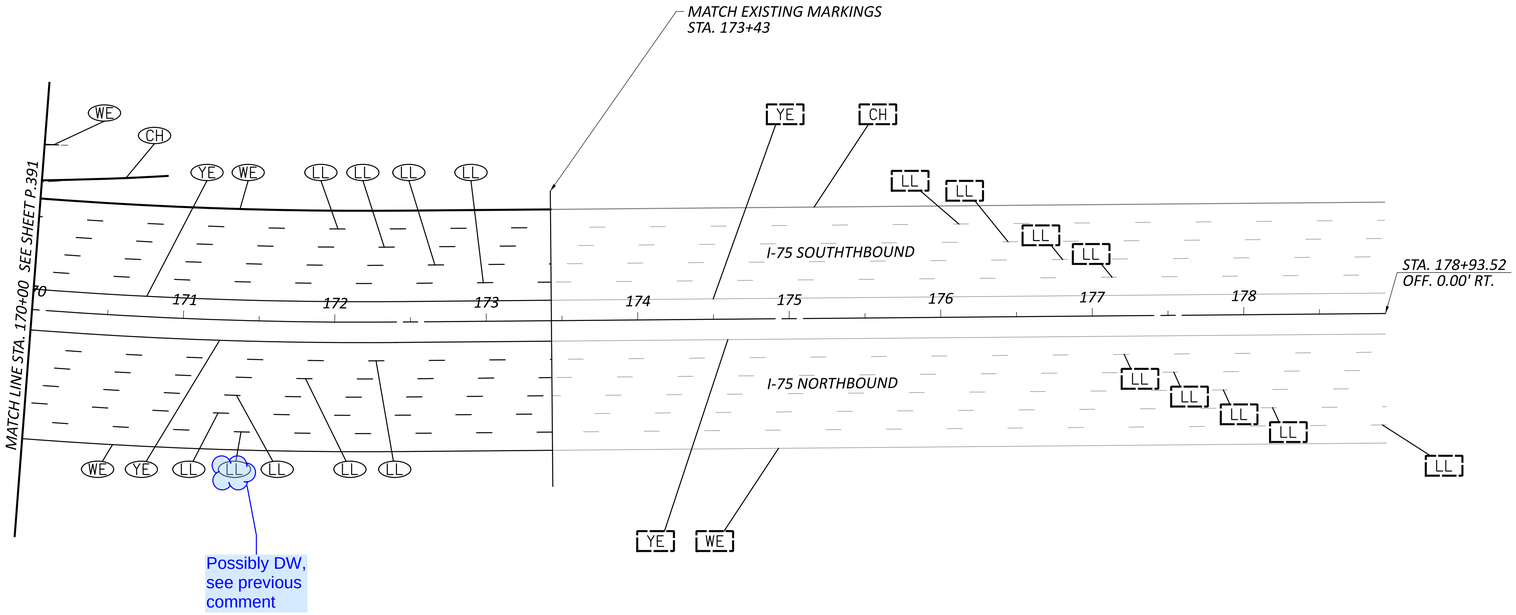
SIGN AND PAVEMENT MARKING PLAN
I-75 MAINLINE - STA. 158+00 TO 170+00

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 05-24-24
PROJECT ID 0114161
SHEET P.391 TOTAL 463

HAM-75-1.95

MODEL: I75 - Sheet 6 Sta. 158+00 to 170+00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/21/2024 TIME: 8:37:03 AM USER: Anthony Collinger
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NOTES:
SEE SHEET P.386 FOR SIGNING AND PAVEMENT MARKING LEGEND.

HORIZONTAL SCALE IN FEET
0 25 50 100

SIGN AND PAVEMENT MARKING PLAN
I-75 MAINLINE - STA. 170+00 TO 178+93.52

DESIGN AGENCY
Lanham ENGINEERING LLC

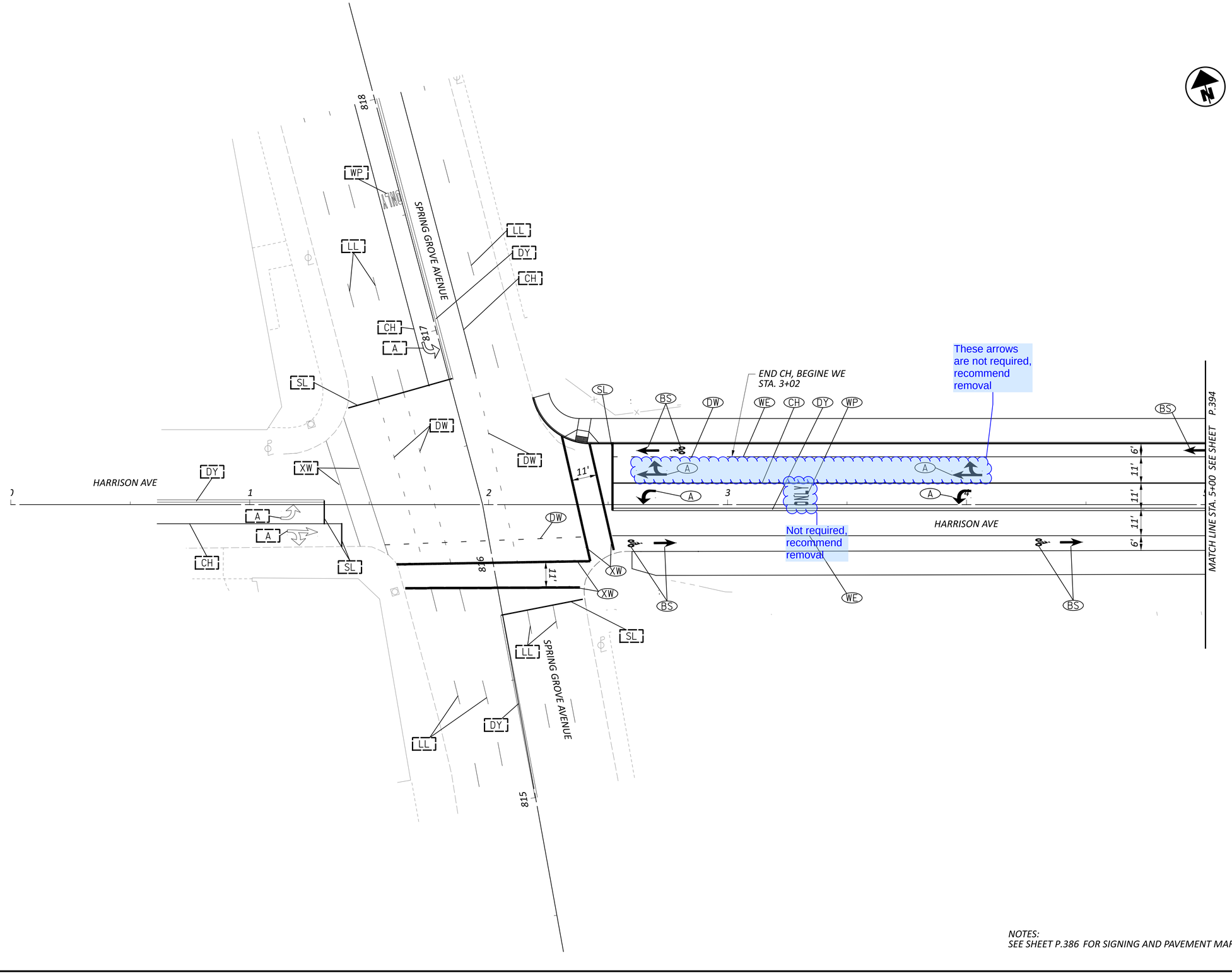
DESIGNER ANC
REVIEWER JAR 05-24-24
PROJECT ID 114161
SHEET p.392 TOTAL 463

HAM-75-1.95

MODEL: I75 - Sheet 7 Sta. 170+00 to 178+93.52 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/21/2024 TIME: 8:37:05 AM USER: Anthony Collinger
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SIGN AND PAVEMENT MARKING PLAN
HARRISON AVE STA. 0+00 TO 5+00

HORIZONTAL SCALE IN FEET
0 10 20 40



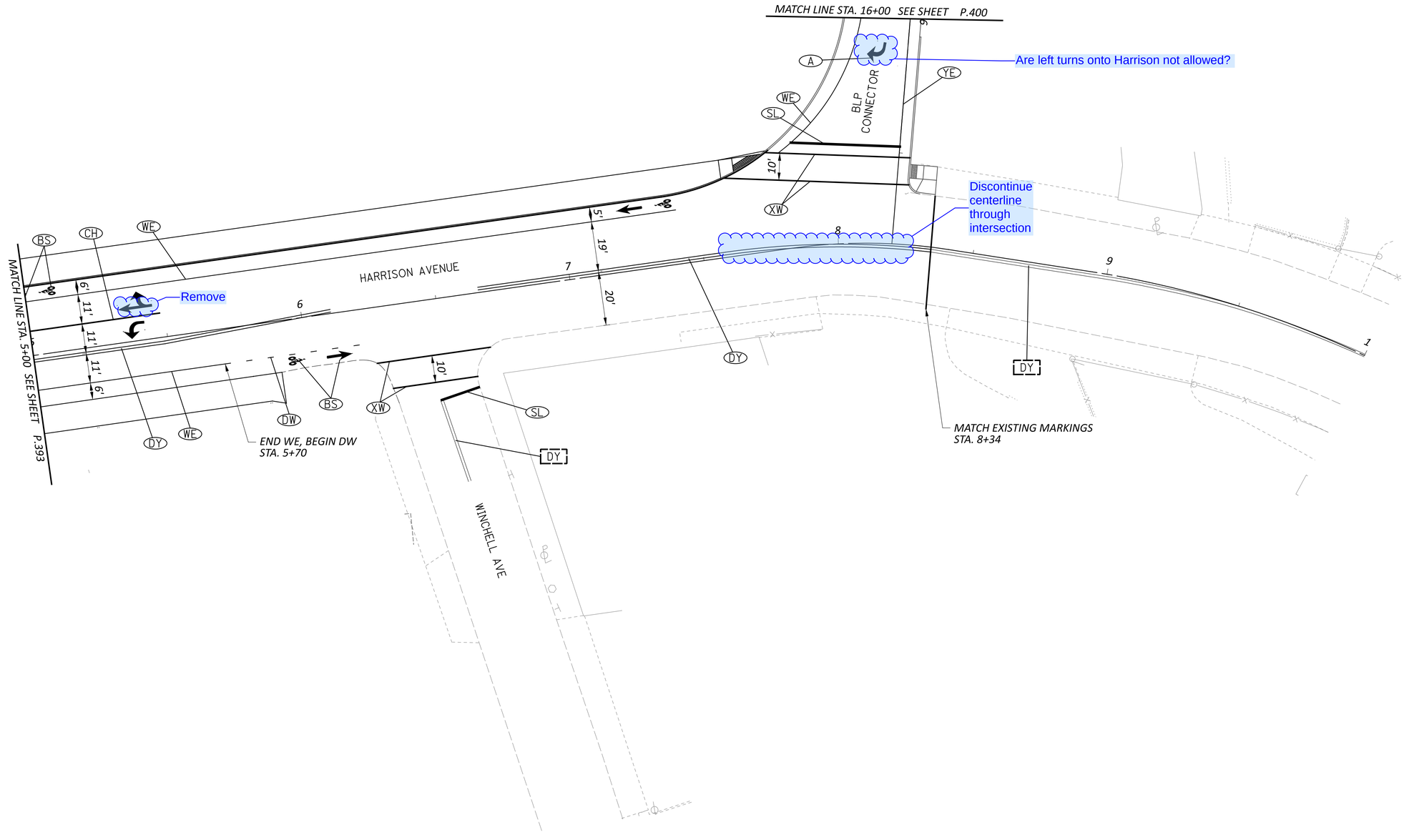
NOTES:
SEE SHEET P.386 FOR SIGNING AND PAVEMENT MARKING LEGEND.

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 05-24-24
PROJECT ID 114161
SHEET P.393 TOTAL 463

HAM-75-1.95

MODEL: CLP_HARRISON-1 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/21/2024 TIME: 8:37:38 AM USER: Anthony Collinger
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NOTES:
SEE SHEET P.386 FOR SIGNING AND PAVEMENT MARKING LEGEND.

HORIZONTAL SCALE IN FEET
0 10 20 40

SIGN AND PAVEMENT MARKING PLAN
HARRISON AVE STA. 5+00 TO 10+00

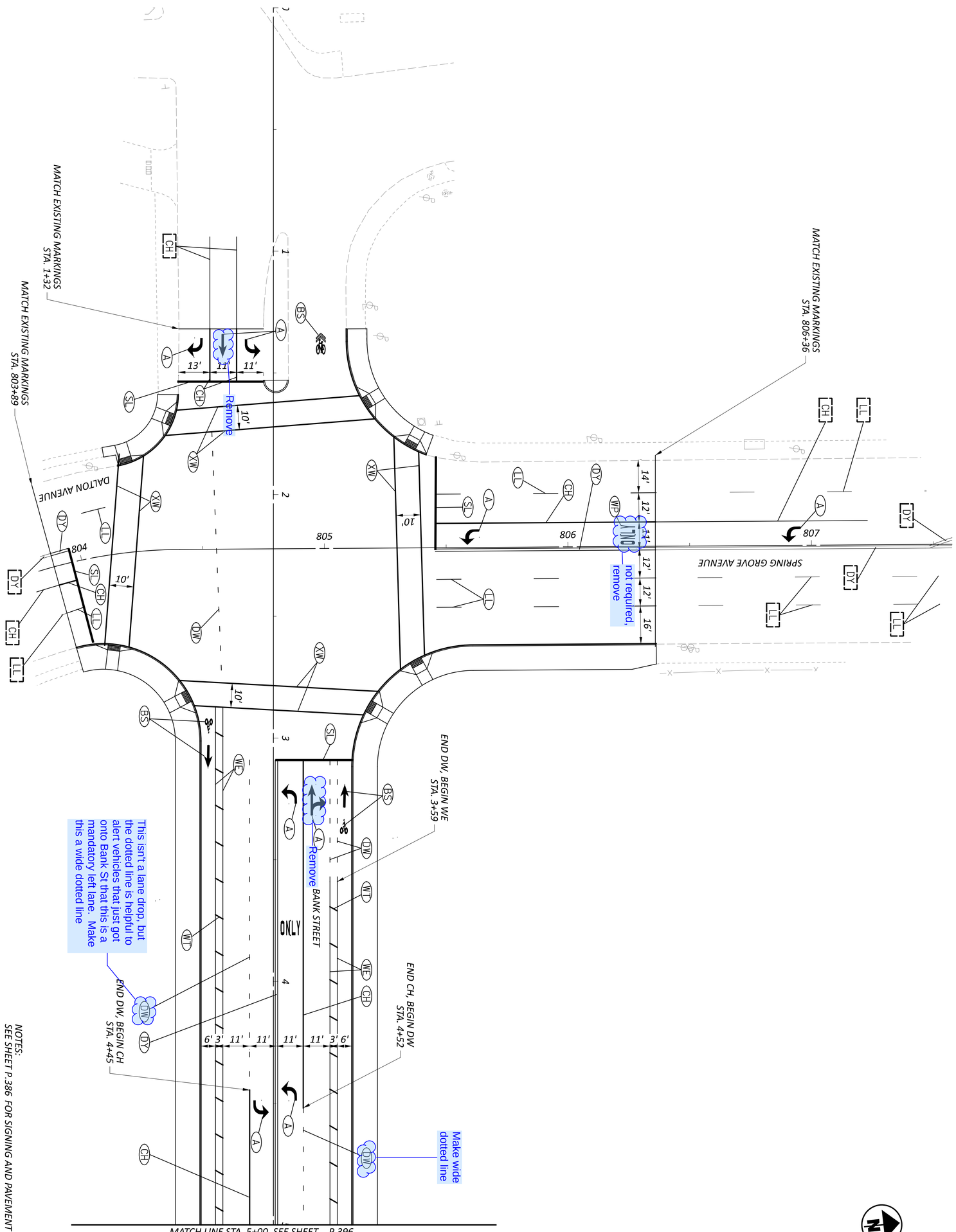
DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 05-24-24
PROJECT ID 114161
SHEET P.394 TOTAL 463

HAM-75-1.95

MODEL: CLP_HARRISON-1 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/21/2024 TIME: 8:37:41 AM USER: Anthony Collinger
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MODEL: BLP_Banks - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/21/2024 TIME: 8:37:43 AM USER: Anthony Collinger
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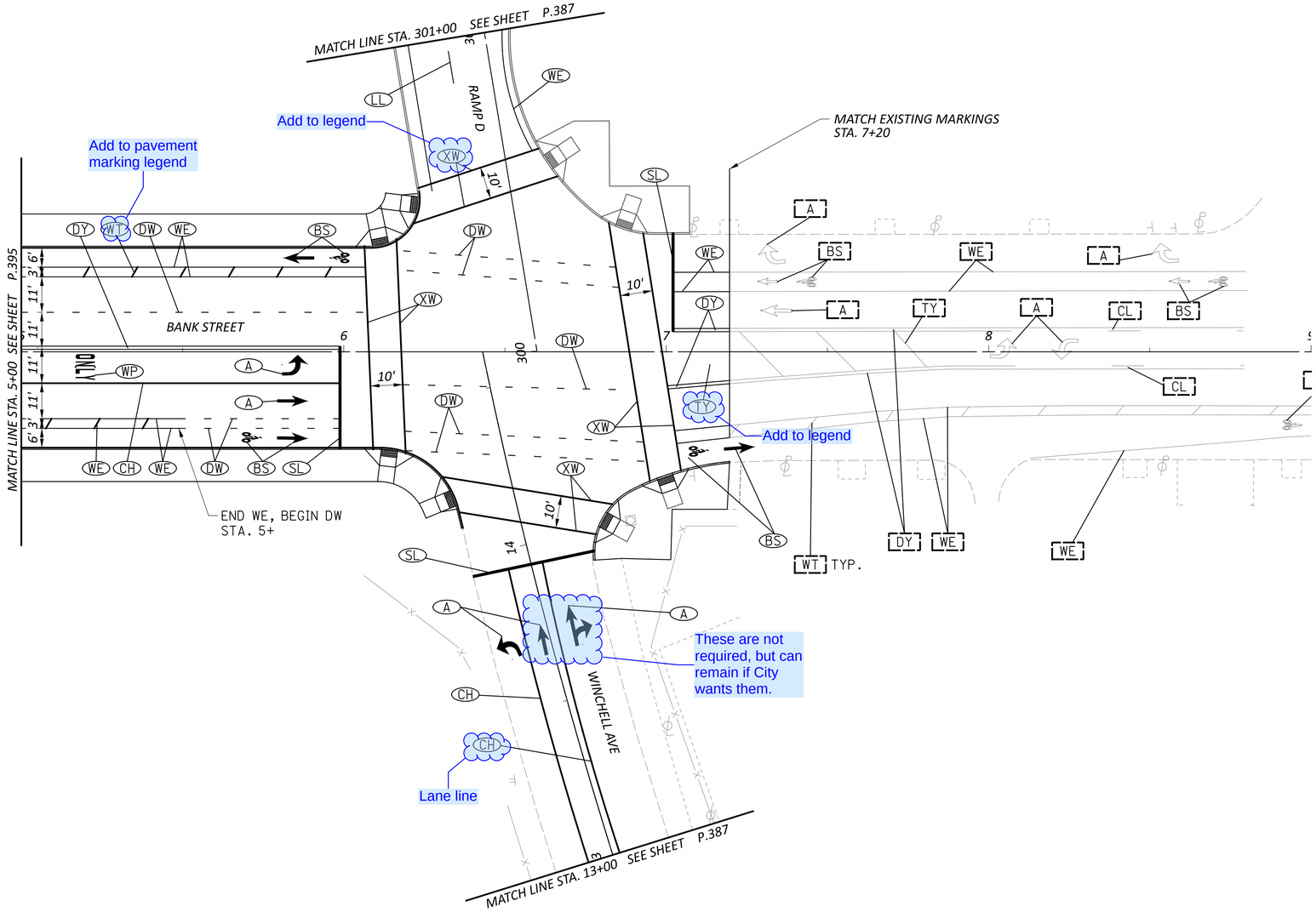


NOTES:
SEE SHEET P.386 FOR SIGNING AND PAVEMENT MARKING LEGEND.

SHEET P.395	TOTAL 463	PROJECT ID 114161	REVIEWER JAR 05-24-24	DESIGNER ANC	DESIGN AGENCY Lanham ENGINEERING LLC

SIGN AND PAVEMENT MARKING PLAN
BANK ST STA. 0+00 TO 5+00

HORIZONTAL SCALE IN FEET
0 20
10 40



NOTES:
SEE SHEET P.386 FOR SIGNING AND PAVEMENT MARKING LEGEND.

HORIZONTAL SCALE IN FEET
0 10 20 40

SIGN AND PAVEMENT MARKING PLAN
BANK ST STA. 5+00 TO 9+00

DESIGN AGENCY
Lanham ENGINEERING LLC

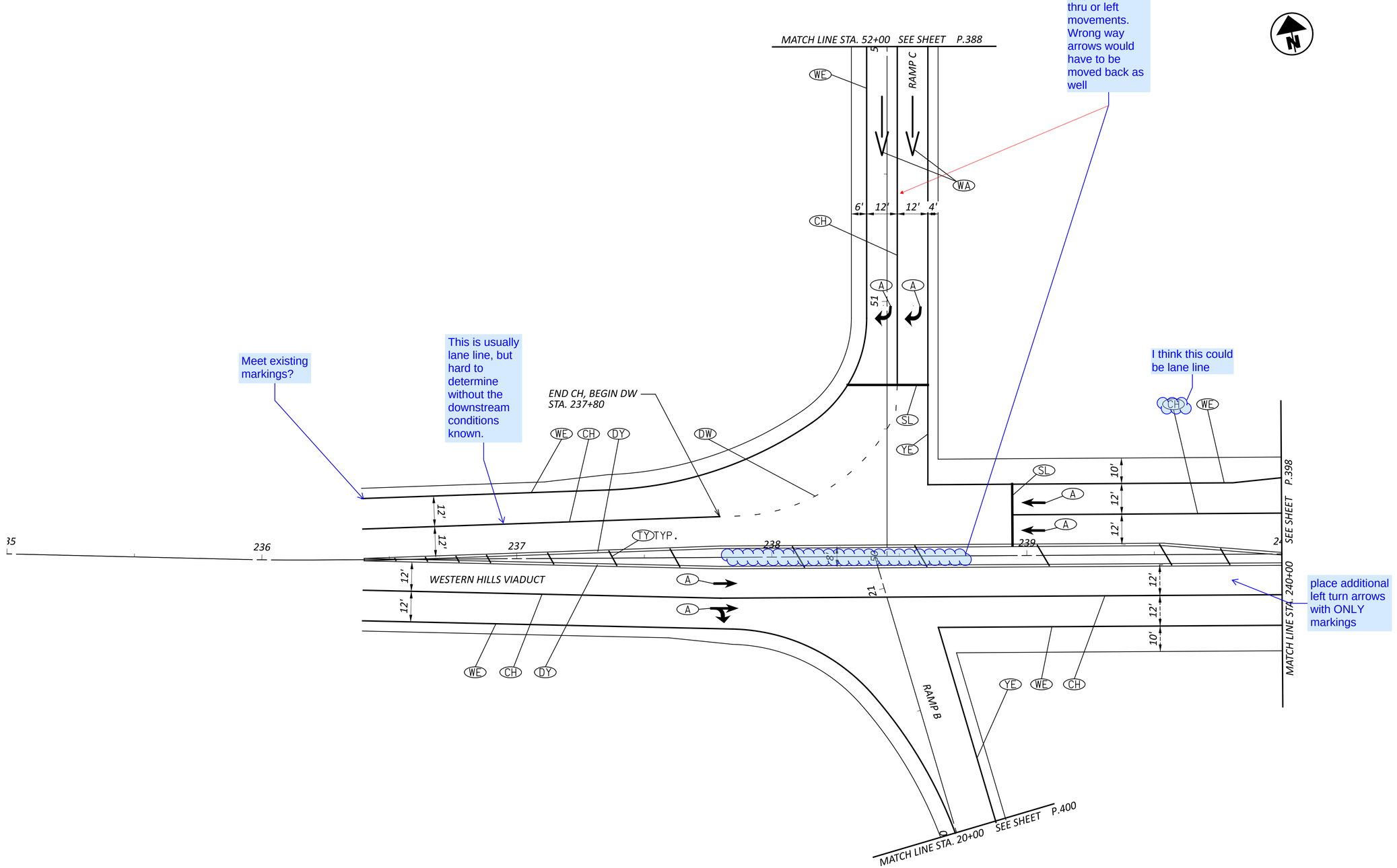
DESIGNER ANC
REVIEWER JAR 05-24-24
PROJECT ID 114161
SHEET P.396 TOTAL 463

HAM-75-1.95

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SIGN AND PAVEMENT MARKING PLAN
WESTERN HILLS VIADUCT STA. 235+00 TO 240+00

HORIZONTAL SCALE IN FEET
0 10 20 40



median here or only paint? If only paint, place additional right turn arrows and ONLY markingson Ramp C to emphasize no thru or left movements. Wrong way arrows would have to be moved back as well

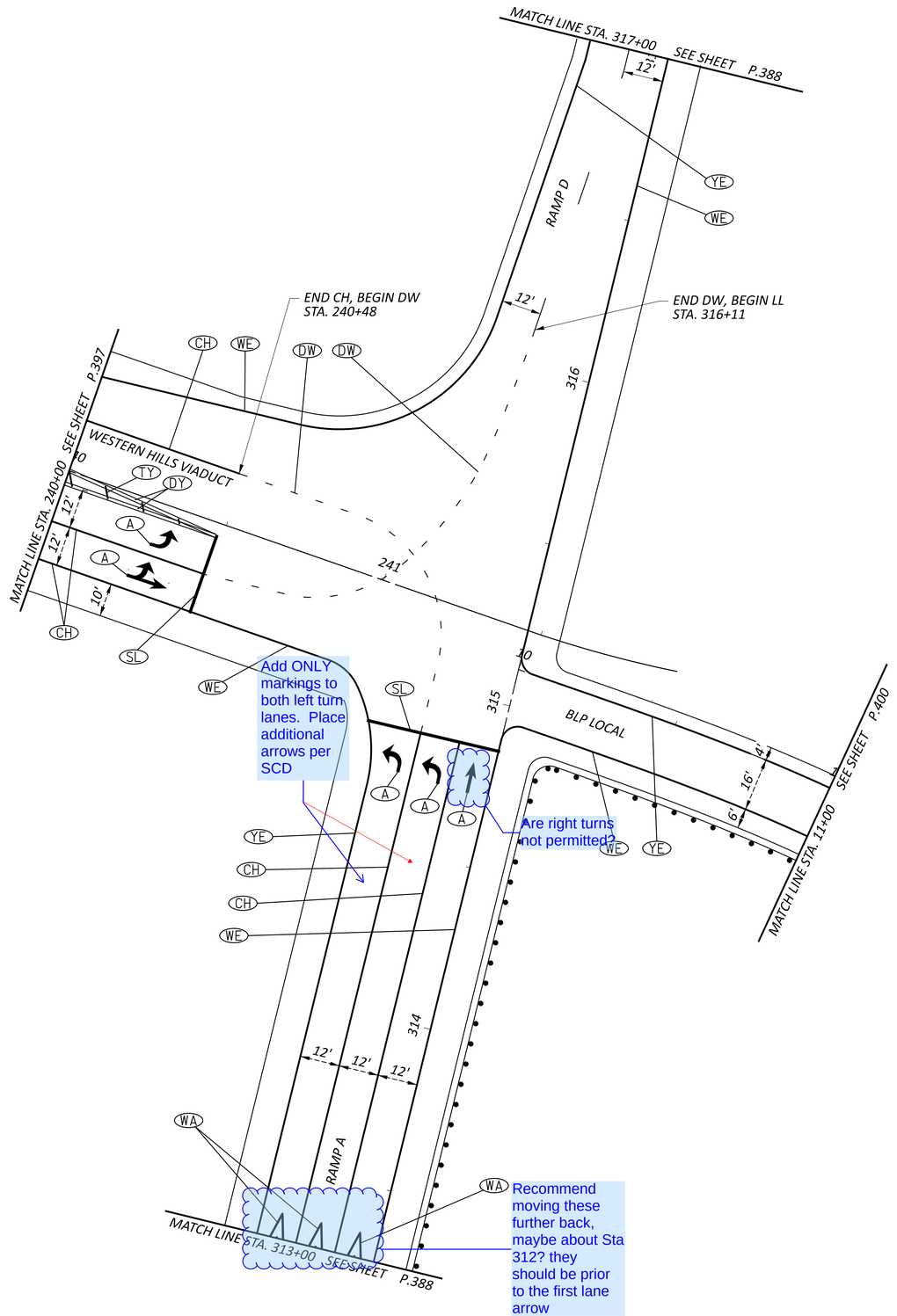
NOTES:
SEE SHEET P.386 FOR SIGNING AND PAVEMENT MARKING LEGEND.

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER	ANC
REVIEWER	JAR 05-24-24
PROJECT ID	114161
SHEET	P.397
TOTAL	463

HAM-75-1.95

MODEL: CLP_WHV3 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/21/2024 TIME: 8:38:05 AM USER: Anthony Collinger
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HORIZONTAL SCALE IN FEET
0 10 20 40

SIGN AND PAVEMENT MARKING PLAN
WESTERN HILLS VIADUCT STA. 240+00 TO 243+00

NOTES:
SEE SHEET P.386 FOR SIGNING AND PAVEMENT MARKING LEGEND.

DESIGN AGENCY	Lanham ENGINEERING LLC
DESIGNER	ANC
REVIEWER	JAR 05-24-24
PROJECT ID	114161
SHEET	P.398
TOTAL	463

HAM-75-1.95

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HORIZONTAL SCALE IN FEET
0 10 20 40

SIGN AND PAVEMENT MARKING PLAN
RAMP B STA. 16+00 TO 20+00

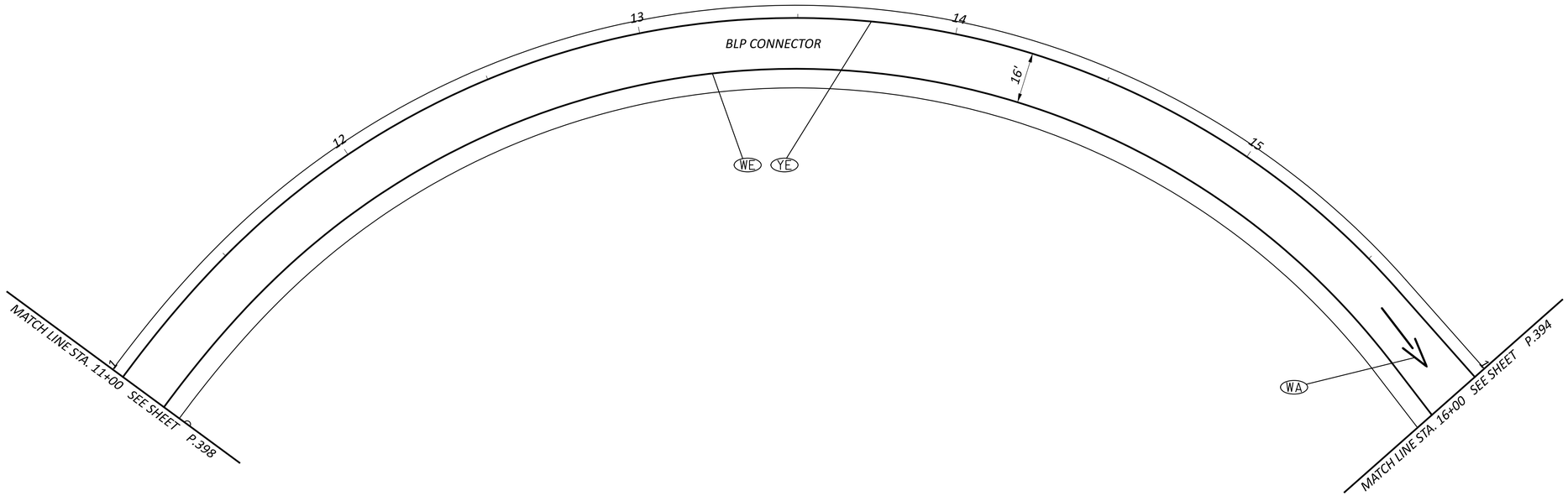
NOTES:
SEE SHEET P.386 FOR SIGNING AND PAVEMENT MARKING LEGEND.

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 05-24-24
PROJECT ID 114161
SHEET P.399 TOTAL 463

HAM-75-1.95

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NOTES:
SEE SHEET P.386 FOR SIGNING AND PAVEMENT MARKING LEGEND.

HORIZONTAL SCALE IN FEET
0 10 20 40

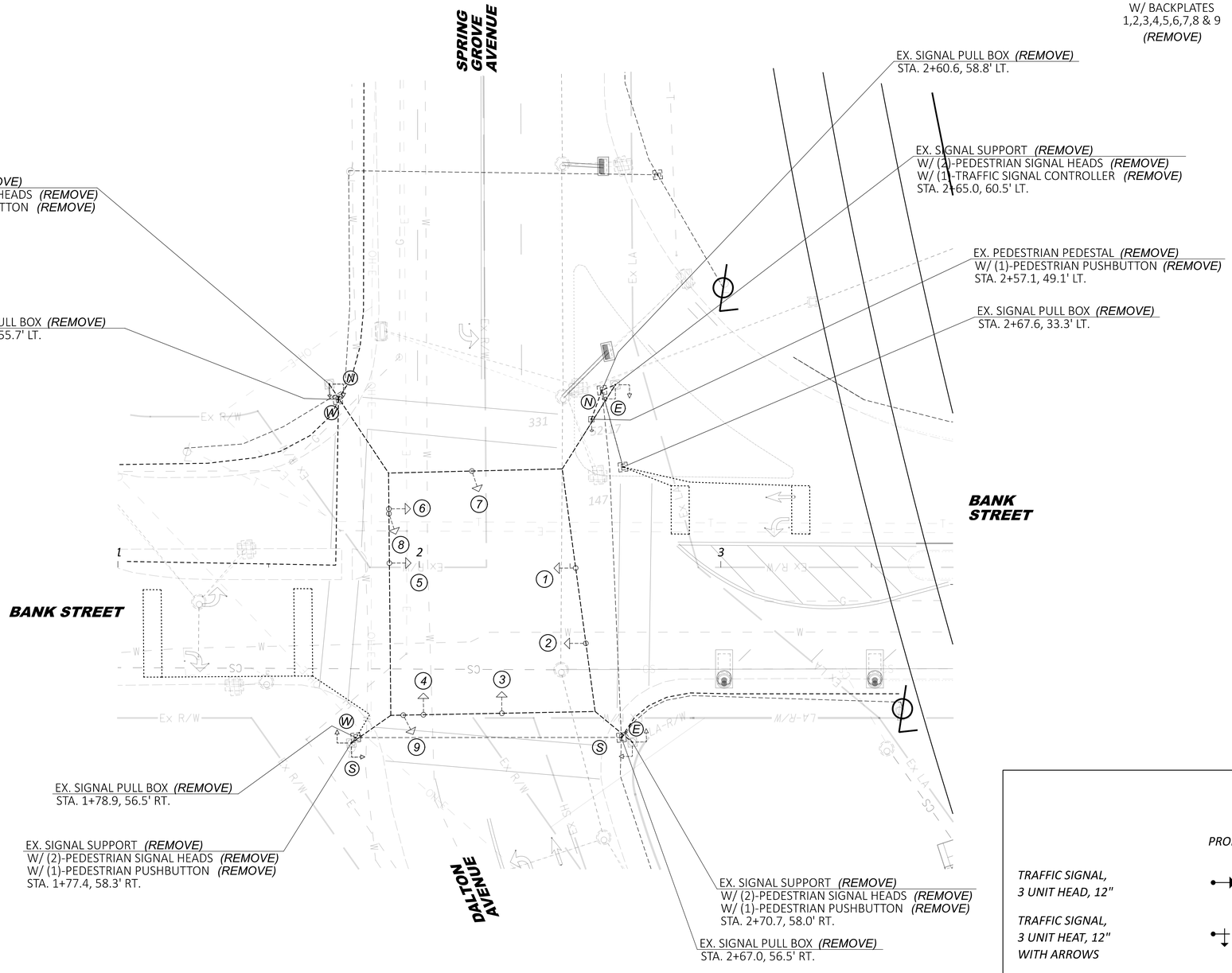
SIGN AND PAVEMENT MARKING PLAN
BLP CONNECTOR STA. 11+00 TO 16+00

DESIGN AGENCY
Lanham ENGINEERING LLC

DESIGNER ANC
REVIEWER JAR 05-24-24
PROJECT ID 114161
SHEET P.400 TOTAL 463

HAM-75-1.95

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LEGEND

	PROP	EXIST
TRAFFIC SIGNAL, 3 UNIT HEAD, 12"		
TRAFFIC SIGNAL, 3 UNIT HEAT, 12" WITH ARROWS		
SIGNAL SUPPORT POLE		
PEDESTRIAN SIGNAL		
PEDESTRIAN PUSH BUTTON		

	PROP	EXIST
PEDESTAL SUPPORT		
CONTROLLER CABNET W/UPS AND WORK PAD (TS-2)		
TRAFFIC PULL BOX		TR
STOPLINE RADAR DETECTION UNIT	S	S
DILEMMA ZONE RADAR DETECTION UNIT	D	D
DILEMMA ZONE		

HORIZONTAL SCALE IN FEET
0 10 20 40

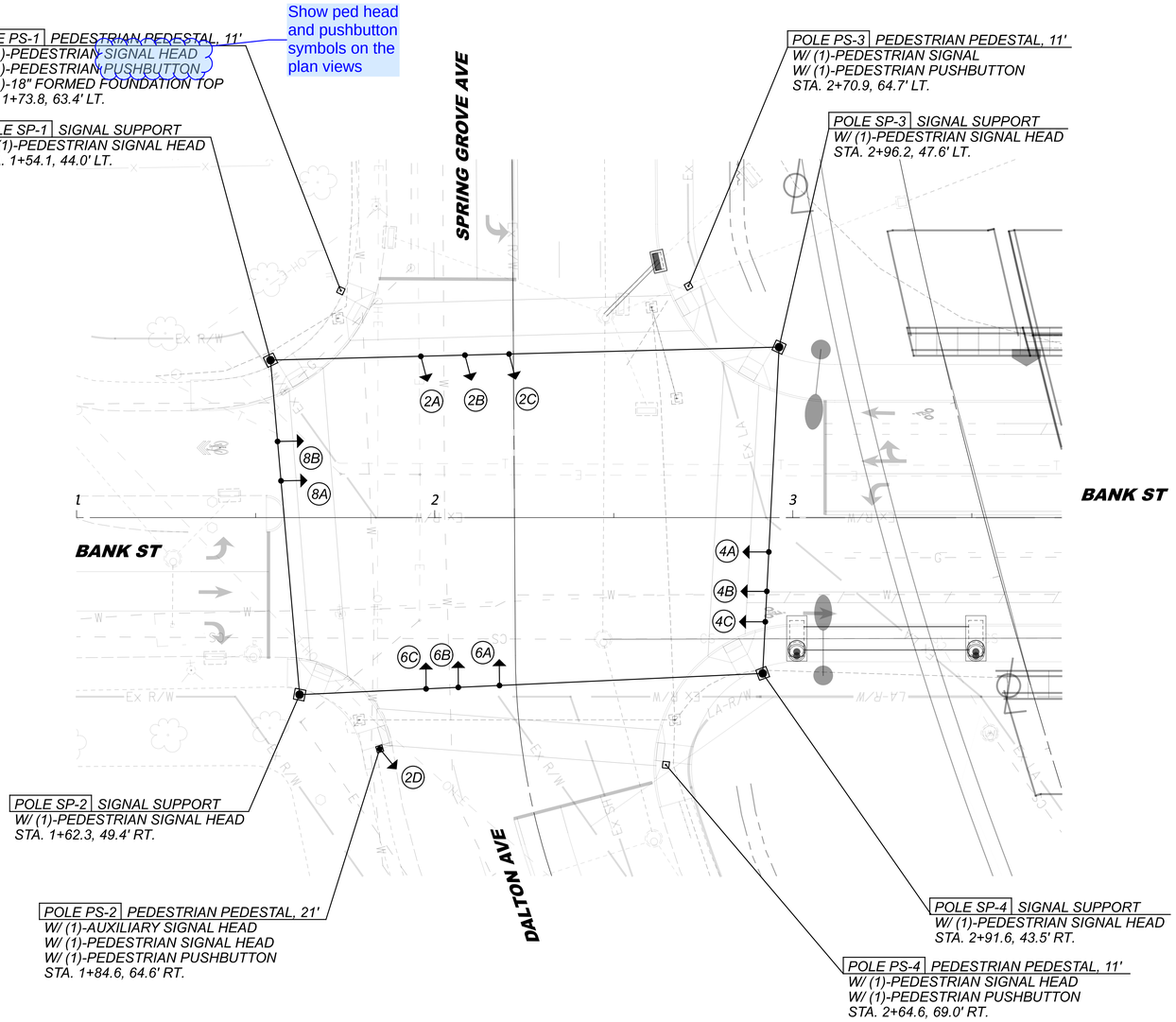
TRAFFIC SIGNAL REMOVAL PLAN
BANK STREET AT SPRING GROVE AVENUE/DALTON AVENUE

DESIGN AGENCY
EMH&T

DESIGNER DRM
REVIEWER JDS 06-21-24
PROJECT ID 114161
SHEET P.401 TOTAL 463

HAM-75-1.95

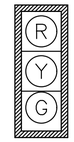
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Show ped head and pushbutton symbols on the plan views

Where is cabinet to be located? Power source?

VEHICULAR TRAFFIC SIGNAL HEAD CONFIGURATION



12" HEADS
W/ BACKPLATES
2A,2B,2C,2D,4A,4B,4C,
6A,6B,6C,8A,8B

HORIZONTAL SCALE IN FEET
0 10 20 40

LEGEND

	PROP	EXIST		PROP	EXIST
TRAFFIC SIGNAL, 3 UNIT HEAD, 12"			PEDESTAL SUPPORT		
TRAFFIC SIGNAL, 3 UNIT HEAT, 12" WITH ARROWS			CONTROLLER CABNET W/UPS AND WORK PAD (TS-2)		
SIGNAL SUPPORT POLE			TRAFFIC PULL BOX		
PEDESTRIAN SIGNAL			STOPLINE RADAR DETECTION UNIT		
PEDESTRIAN PUSH BUTTON			DILEMMA ZONE RADAR DETECTION UNIT		
			DILEMMA ZONE		

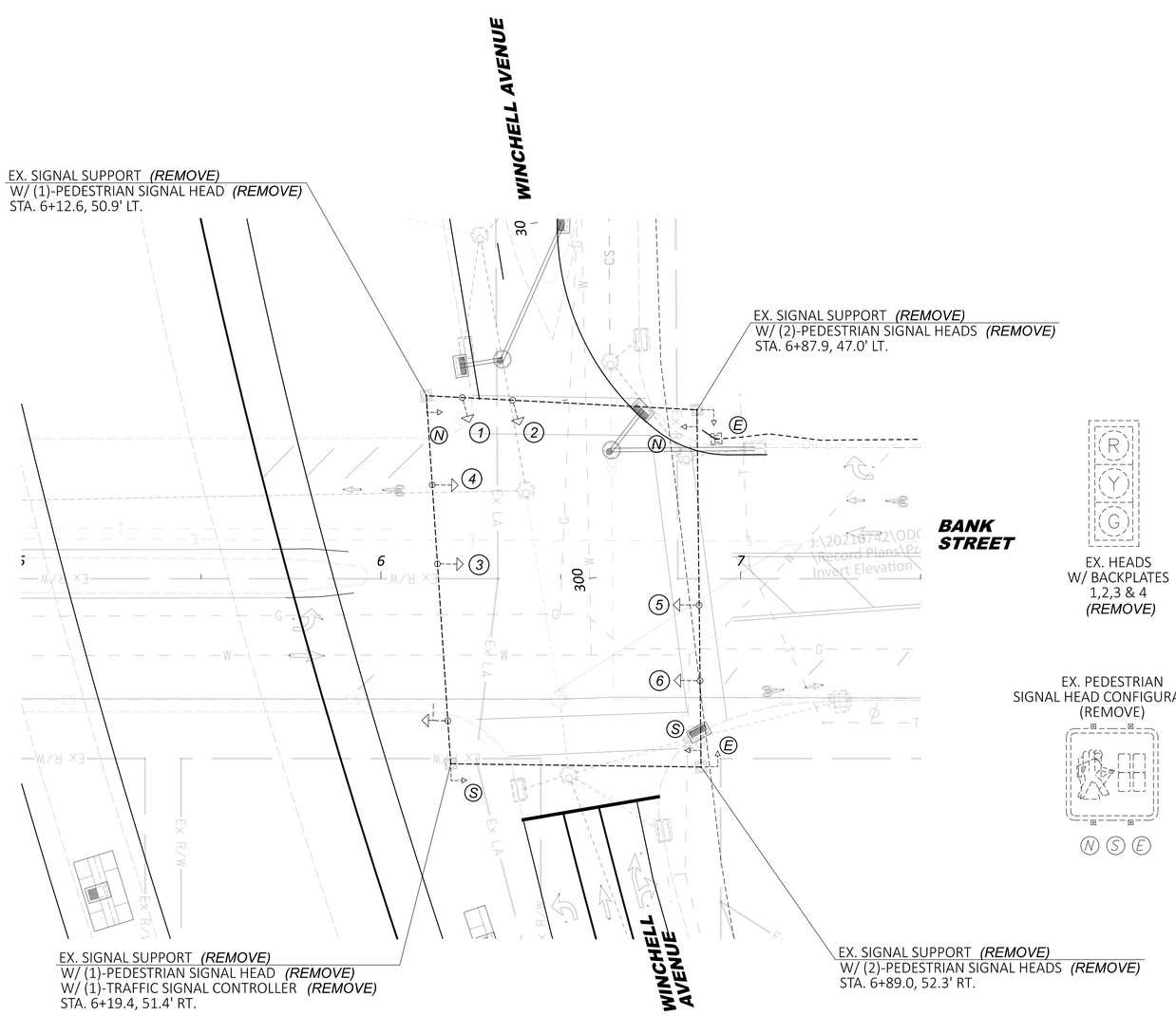
TRAFFIC SIGNAL PLAN
BANK STREET AT SPRING GROVE AVENUE/DALTON AVENUE

DESIGN AGENCY
EMH&T

DESIGNER DRM
REVIEWER JDS 06-21-24
PROJECT ID 114161
SHEET P.402 TOTAL 463

HAM-75-1.95

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EX. HEADS
W/ BACKPLATES
1,2,3 & 4
(REMOVE)

EX. HEADS
W/ BACKPLATES
5 & 6
(REMOVE)

EX. PEDESTRIAN
SIGNAL HEAD CONFIGURATION
(REMOVE)

LEGEND

	PROP	EXIST		PROP	EXIST
TRAFFIC SIGNAL, 3 UNIT HEAD, 12"			*PEDESTAL SUPPORT*		
TRAFFIC SIGNAL, 3 UNIT HEAT, 12" WITH ARROWS			*CONTROLLER CABNET W/UPS AND WORK PAD (TS-2)*		
SIGNAL SUPPORT POLE			*TRAFFIC PULL BOX*		
PEDESTRIAN SIGNAL			*STOPLINE RADAR DETECTION UNIT*		
PEDESTRIAN PUSH BUTTON			*DILEMMA ZONE RADAR DETECTION UNIT*		
			DILEMMA ZONE		

HORIZONTAL
SCALE IN FEET
0 10 20 40

TRAFFIC SIGNAL REMOVAL PLAN
BANK STREET AT WINCHELL AVENUE

DESIGN AGENCY
EMH&T

DESIGNER
DRM

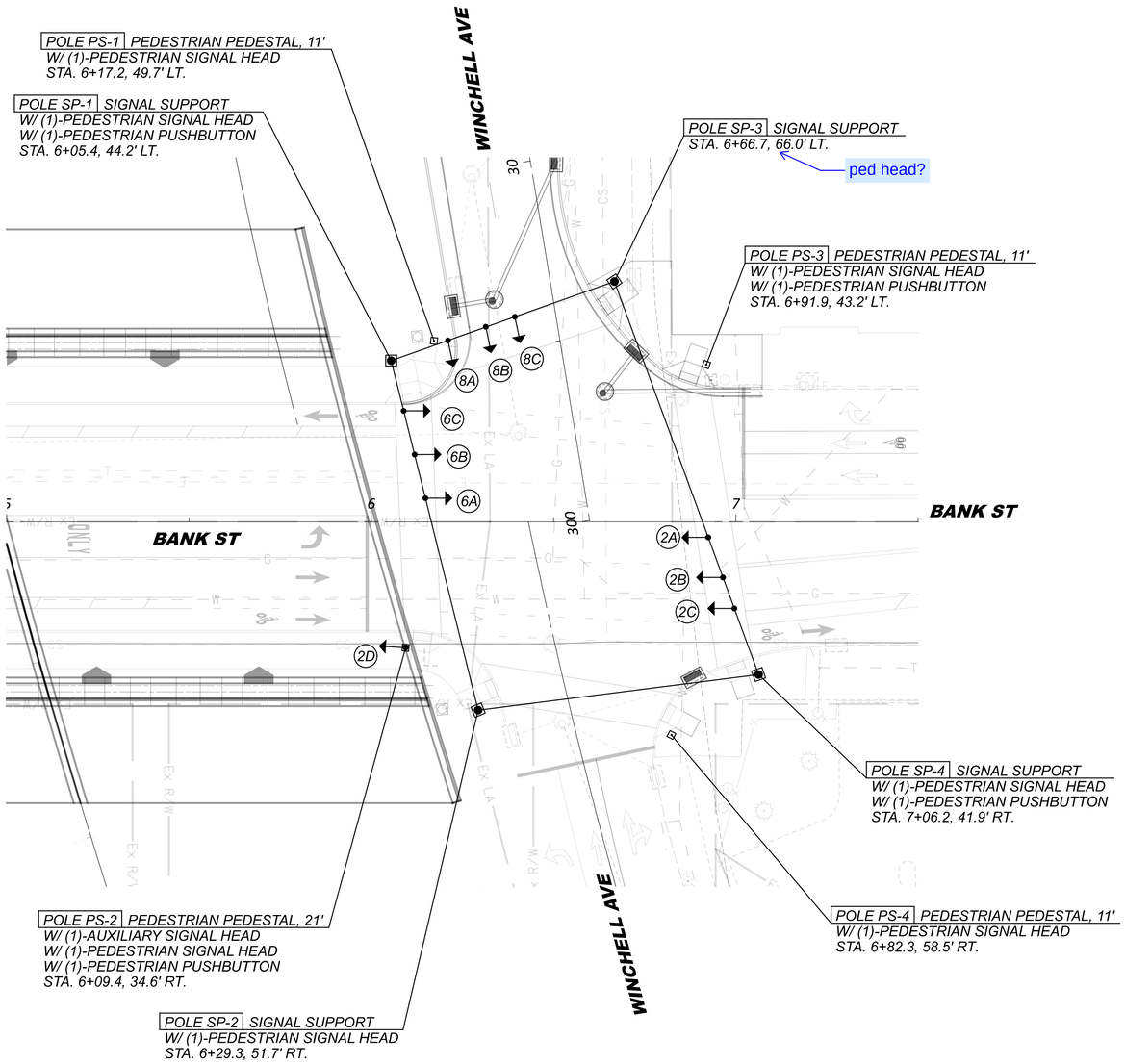
REVIEWER
JDS 06-21-24

PROJECT ID
114161

SHEET P.403 | TOTAL 463

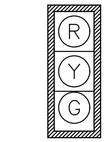
HAM-75-1.95

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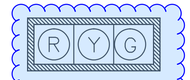


cabinet location? Power source?

VEHICULAR TRAFFIC SIGNAL HEAD CONFIGURATION



12" HEADS
W/ BACKPLATES
~~2A~~,2D,6A,6B,
6C,8A,8B,8C



12" HEADS
W/ BACKPLATES
2A,2B,2C

It looks as though the bridge is being raised somewhat, or using shallower beams. Will this allow the use of vertical heads now? Confirm 3 horizontal heads fit on the span and achieve the min 8' spacing

LEGEND

	PROP	EXIST
TRAFFIC SIGNAL, 3 UNIT HEAD, 12"	●→	○-→
TRAFFIC SIGNAL, 3 UNIT HEAT, 12" WITH ARROWS	●┼	○┼
SIGNAL SUPPORT POLE	●	○
PEDESTRIAN SIGNAL	┐	┐
PEDESTRIAN PUSH BUTTON	⟶	-○

	PROP	EXIST
PEDESTAL SUPPORT	⊡	⊡
CONTROLLER CABNET W/UPS AND WORK PAD (TS-2)	⊠	⊠
TRAFFIC PULL BOX	TR	TR
STOPLINE RADAR DETECTION UNIT	S	S
DILEMMA ZONE RADAR DETECTION UNIT	D	D
DILEMMA ZONE	▨	▨

HORIZONTAL SCALE IN FEET
0 10 20 40

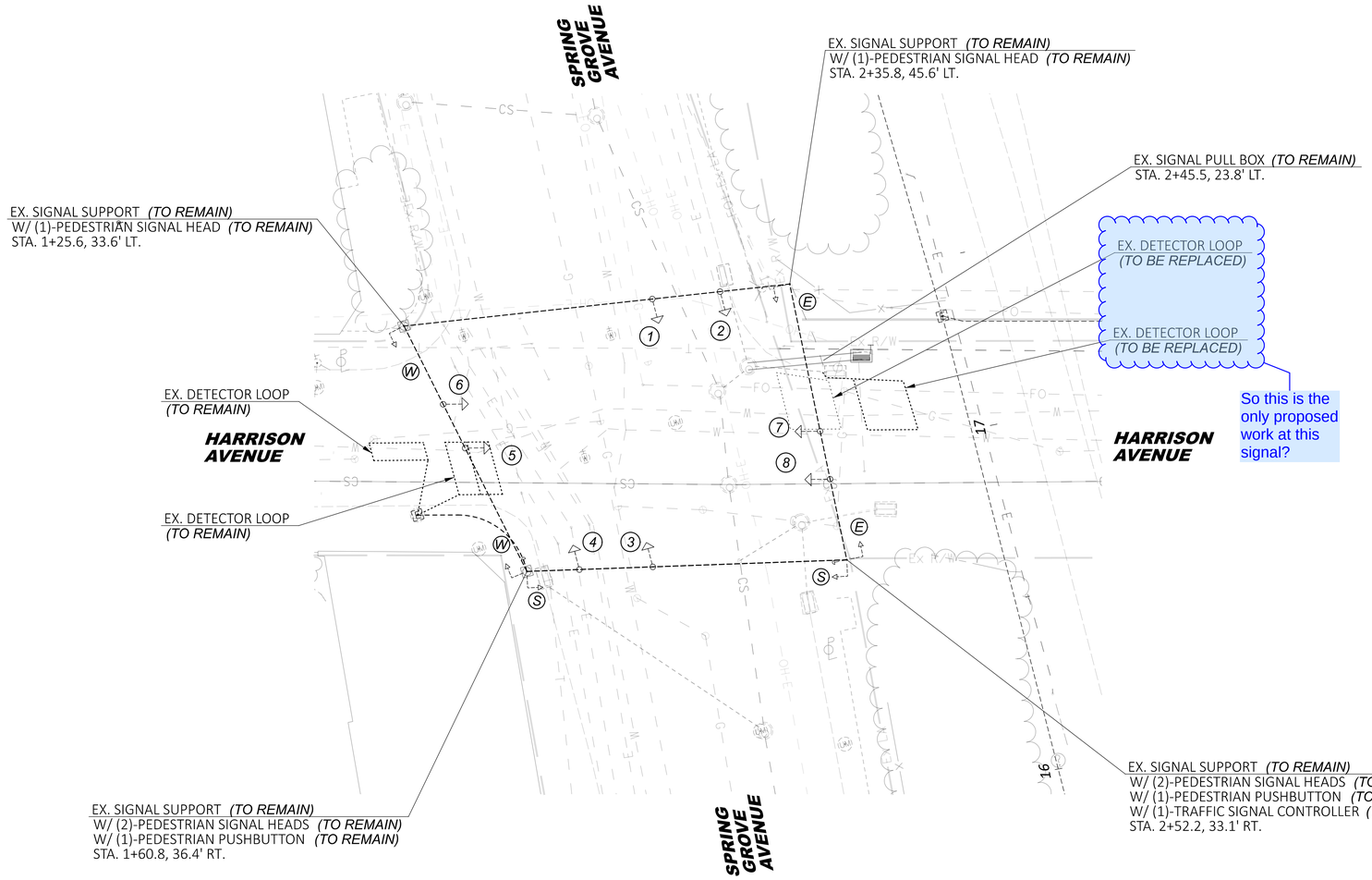
TRAFFIC SIGNAL PLAN
BANK STREET AT WINCHELL AVENUE

DESIGN AGENCY
EMH&T

DESIGNER DRM
REVIEWER JDS 06-21-24
PROJECT ID 114161
SHEET P.404 TOTAL 463

HAM-75-1.95

MODEL: 114161_CP007 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:34:37 AM USER: sbeal
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R Y G

EX. HEADS
W/ BACKPLATES
1,2,3,4,7 & 8
(TO REMAIN)

R Y G

EX. HEADS
W/ BACKPLATES
5 & 6
(TO REMAIN)

EX. PEDESTRIAN
SIGNAL HEAD CONFIGURATION

S E W

LEGEND

	PROP	EXIST
TRAFFIC SIGNAL, 3 UNIT HEAD, 12"		
TRAFFIC SIGNAL, 3 UNIT HEAT, 12" WITH ARROWS		
SIGNAL SUPPORT POLE		
PEDESTRIAN SIGNAL		
PEDESTRIAN PUSH BUTTON		

	PROP	EXIST
PEDESTAL SUPPORT		
CONTROLLER CABNET W/UPS AND WORK PAD (TS-2)		
TRAFFIC PULL BOX	TR	TR
STOPLINE RADAR DETECTION UNIT	S	S
DILEMMA ZONE RADAR DETECTION UNIT	D	D
DILEMMA ZONE		

HORIZONTAL
SCALE IN FEET
0 10 20 40

TRAFFIC SIGNAL PLAN
HARRISON AVENUE AT SPRING GROVE AVENUE

DESIGN AGENCY
EMH&T

DESIGNER
DRM

REVIEWER
JDS 06-21-24

PROJECT ID
114161

SHEET P.405 | TOTAL 463

HAM-75-1.95

MODEL: 114161_CP005 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:35:05 AM USER: sbeal
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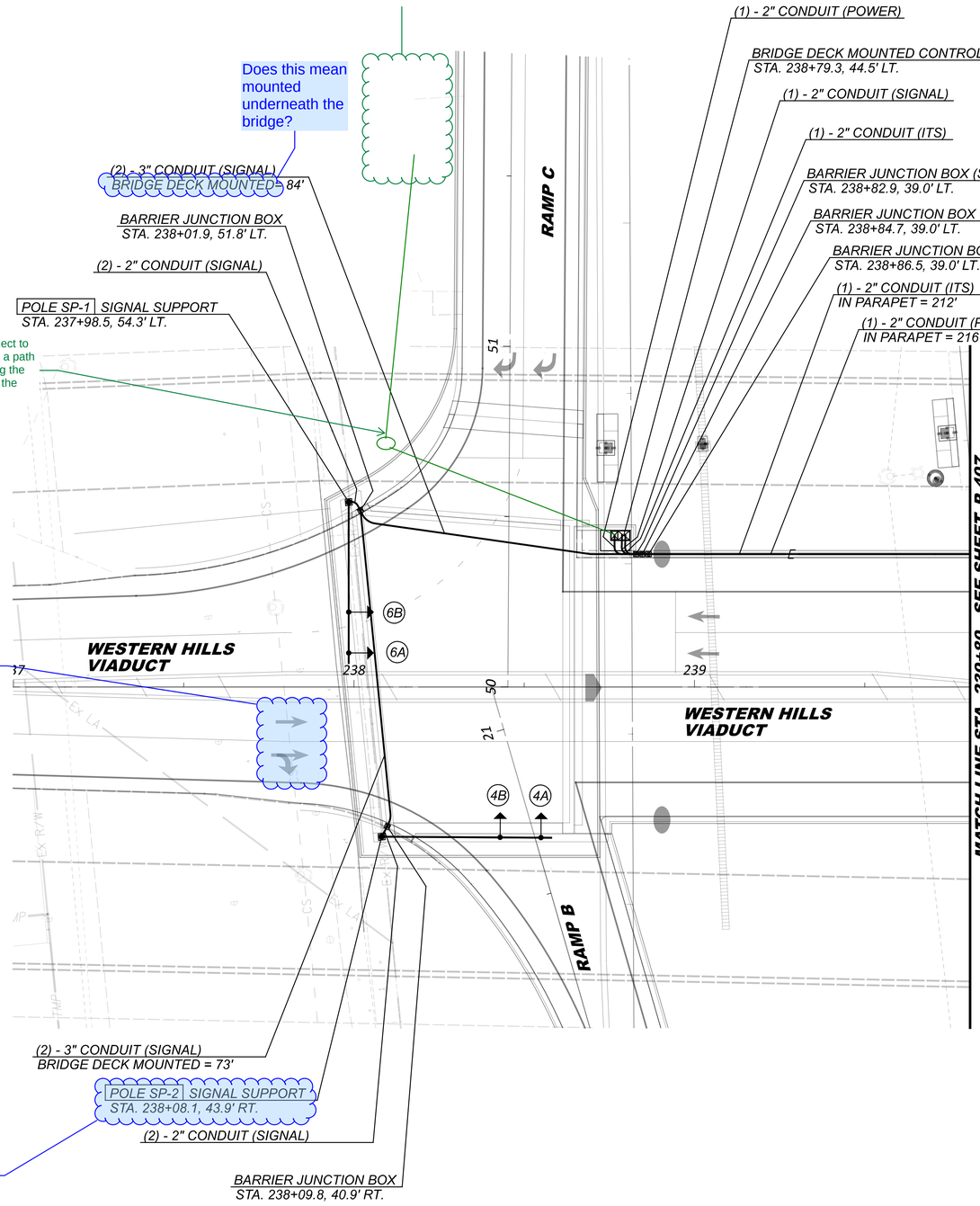
ITS 30' Camera Pole is being proposed in this area on the ITS plans. Potentially show it and the underground infrastructure here as well and say to see the ITS plans for more details.

Does this mean mounted underneath the bridge?

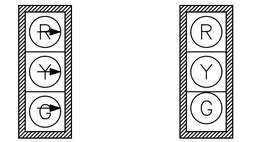
I would additionally include a conduit/pull box to connect to where the ITS cabinet/camera pole will be so there is a path to the signal cabinet as well. Even if City is controlling the signal, this could still be beneficial for partnering with the City

Should this approach have a continuous green arrow? This could make some uncomfortable approaching a signal with no indication, especially without a barrier or median separating or channelizing the traffic. Could make SP-2 a dual arm with the heads on the near side. Thoughts?

Are these signal supports to be combo poles with lighting? Will this support also incorporate the ramp entrance sign?



VEHICULAR TRAFFIC SIGNAL HEAD CONFIGURATION



LEGEND

	PROP	EXIST
TRAFFIC SIGNAL, 3 UNIT HEAD, 12"		
TRAFFIC SIGNAL, 3 UNIT HEAT, 12" WITH ARROWS		
SIGNAL SUPPORT POLE		
PEDESTRIAN SIGNAL		
PEDESTRIAN PUSH BUTTON		

	PROP	EXIST
PEDESTAL SUPPORT		
CONTROLLER CABNET W/UPS AND WORK PAD (TS-2)		
TRAFFIC PULL BOX		
STOPLINE RADAR DETECTION UNIT		
DILEMMA ZONE RADAR DETECTION UNIT		
DILEMMA ZONE		

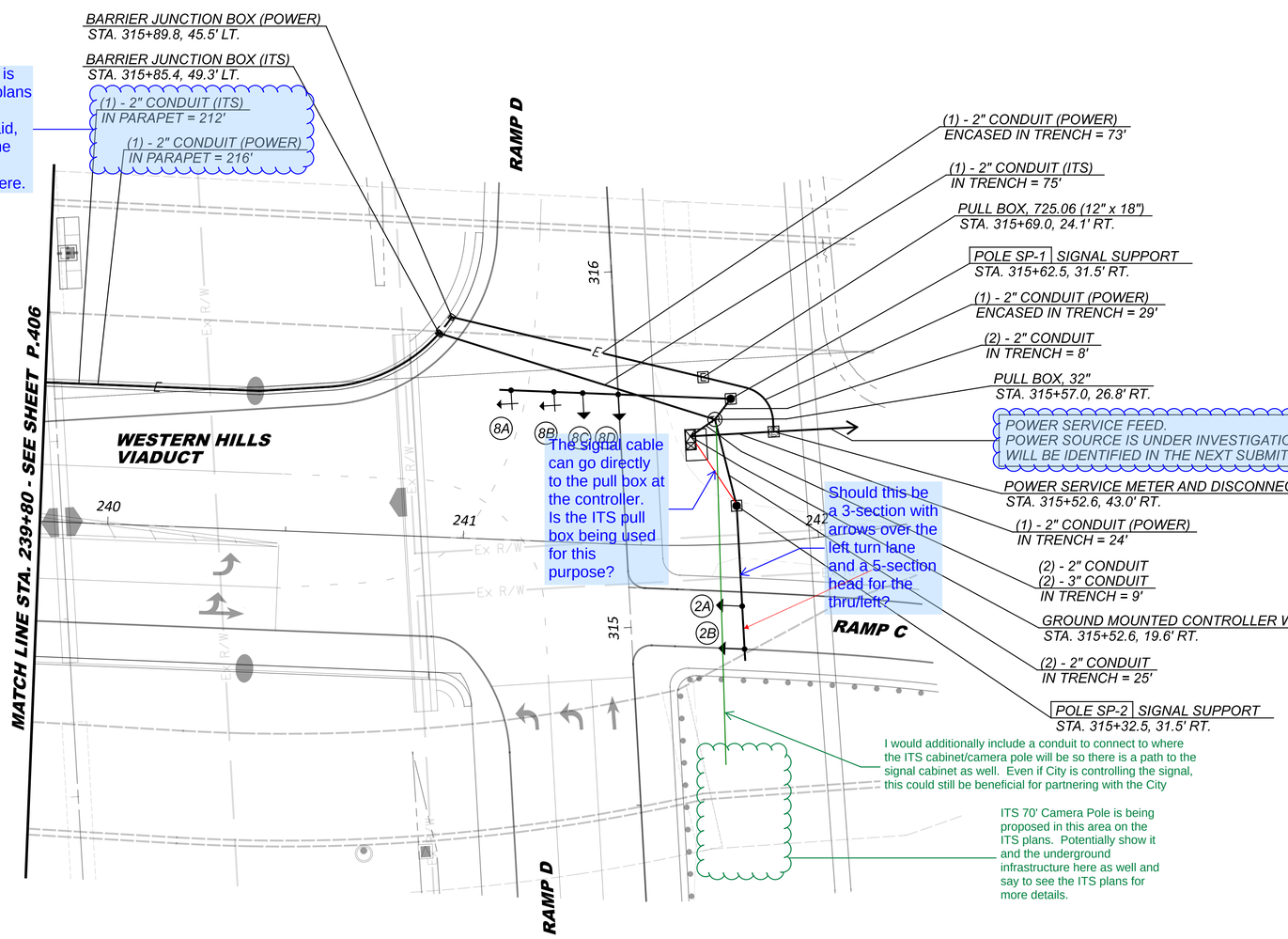
HORIZONTAL SCALE IN FEET
0 10 20 40

TRAFFIC SIGNAL PLAN
WESTERN HILLS VIADUCT AT I-75 SOUTHBOUND RAMPS

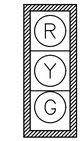
DESIGN AGENCY: EMHT
DESIGNER: DRM
REVIEWER: JDS 06-21-24
PROJECT ID: 114161
SHEET: P.406 TOTAL: 463

HAM-75-1.95

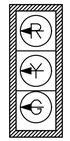
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VEHICULAR TRAFFIC SIGNAL HEAD CONFIGURATION



12" HEADS W/ BACKPLATES 2A,2B,8C,8D



12" HEADS W/ BACKPLATES 8A,8B

LEGEND

	PROP	EXIST		PROP	EXIST
TRAFFIC SIGNAL, 3 UNIT HEAD, 12"			PEDESTAL SUPPORT		
TRAFFIC SIGNAL, 3 UNIT HEAT, 12" WITH ARROWS			CONTROLLER CABNET W/UPS AND WORK PAD (TS-2)		
SIGNAL SUPPORT POLE			TRAFFIC PULL BOX		
PEDESTRIAN SIGNAL			STOPLINE RADAR DETECTION UNIT		
PEDESTRIAN PUSH BUTTON			DILEMMA ZONE RADAR DETECTION UNIT		
			DILEMMA ZONE		

HORIZONTAL SCALE IN FEET
0 10 20 40

TRAFFIC SIGNAL PLAN
WESTERN HILLS VIADUCT AT I-75 NORTHBOUND RAMPS

DESIGN AGENCY: EMHT
DESIGNER: DRM
REVIEWER: JDS 06-21-24
PROJECT ID: 114161
SHEET: P.407 TOTAL: 463

HAM-75-1.95

MODEL: 114161_CP002 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:35:52 AM USER: sbeal
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CONVENTIONAL SYMBOLS

RIGHT OF WAY (EX) Ex R/W
RIGHT OF WAY (PR) R/W
FIBER OPTIC (EX) FO
FIBER OPTIC (PR) FO
ELECTRICAL LINE (EX) E
ELECTRICAL LINE (PR) E
GUARDRAIL (EX)
GUARDRAIL (PR)
TRUSS STRUCTURE (EX)
TRUSS STRUCTURE (PR)
CANTILEVER STRUCTURE (EX)
CANTILEVER STRUCTURE (PR)
POWER POLE (EX)
POWER POLE (PR)
CCTV POLE (EX)
CCTV POLE (PR)
CCTV, FIXED (EX) *(PR)*
CCTV, PTZ (EX)
CCTV, PTZ (PR)
CCTV, QUAD (EX) *(PR)*
ELECTRICAL PULL BOX (EX) E
ELECTRICAL PULL BOX (PR) E
FIBER OPTIC PULL BOX (EX) F
FIBER OPTIC PULL BOX (PR) F
MEDIAN JUNCTION BOX (EX) TR
MEDIAN JUNCTION BOX (PR) TR
COMMUNICATIONS PULL BOX (EX) T
DYNAMIC MESSAGE SIGN, WALK IN (EX)
DYNAMIC MESSAGE SIGN (PR)

ABBREVIATIONS

CCTV = CLOSED CIRCUIT TELEVISION CAMERA
DMS = DYNAMIC MESSAGE SIGN
DND = DO NOT DISTURB
EX = EXISTING
FA = FRONT ACCESS
FOC = FIBER OPTIC CABLE
ODOT = OHIO DEPARTMENT OF TRANSPORTATION
PR = PROPOSED
PTZ = PAN TILT ZOOM
TBR = TO BE REMOVED
VSL = VARIABLE SPEED LIMIT

DESIGNER NOTES

1. MAINTENANCE PULLOVER AREAS HAVE NOT BEEN INCLUDED WITHIN STAGE 1 DESIGN. DESIGN OF MAINTENANCE PULLOVER AREAS WILL BE INCLUDED IN STAGE 2 DESIGN PENDING ODOT APPROVAL OF EACH ITS DEVICE SITE LOCATION.
2. ROADSIDE PROTECTION FOR THE PROPOSED ITS DEVICES HAVE NOT BEEN INCLUDED WITHIN STAGE 1 DESIGN. ROADSIDE PROTECTION WILL BE PART OF THE STAGE 2 DESIGN EFFORT PENDING ODOT APPROVAL OF EACH ITS DEVICE SITE LOCATION.
3. ITS CABINETS FOR NEW ITS DEVICES HAVE NOT BEEN SHOWN IN STAGE 1 DESIGN. ITS CABINET DESIGN WILL BE PART OF THE STAGE 2 DESIGN EFFORT PENDING ODOT APPROVAL OF EACH ITS DEVICE SITE LOCATION.

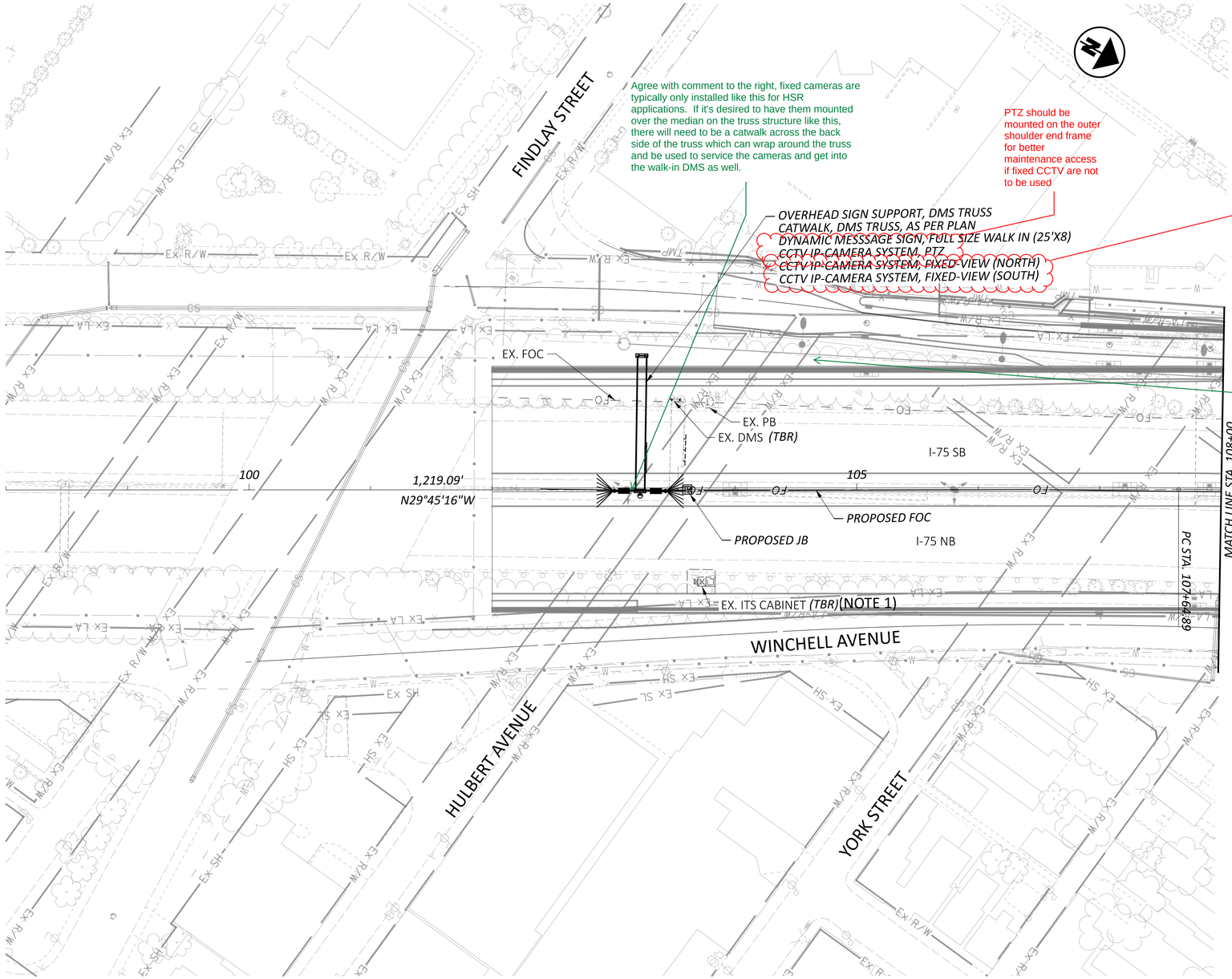
ITS LEGEND, ABBREVIATIONS, AND NOTES

DESIGN AGENCY
GANNETT FLEMING

DESIGNER CRT
REVIEWER AMB 5/17/24
PROJECT ID 114161
SHEET P.408 TOTAL 463

CTY-RTE-SECTION

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:38:01 PM USER: stony
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NOTES

1. EXISTING ITS CABINET TO BE IMPACTED BY ROADWAY WIDENING ACTIVITIES. ITS CABINET TO BE LOCATED DURING STAGE 2 DESIGN PENDING ODOT APPROVAL OF ITS SITE LOCATION.
2. COORDINATION WITH ODOT WILL BE REQUIRED TO DEVELOP A FIBER OPTIC TIE-IN LOCATION AT THE PROJECT LIMIT.

HORIZONTAL SCALE IN FEET
0 25 50 100

ITS PLAN - I-75
STA 98+00.00 TO STA 108+00.00

DESIGN AGENCY
GANNETT FLEMING

DESIGNER	CRT
REVIEWER	AMB 5/17/24
PROJECT ID	114161
SHEET	P.409
TOTAL	463

HAM-75-1.95

MODEL: CLP_IR75 - ITS - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:38:15 PM USER: stony
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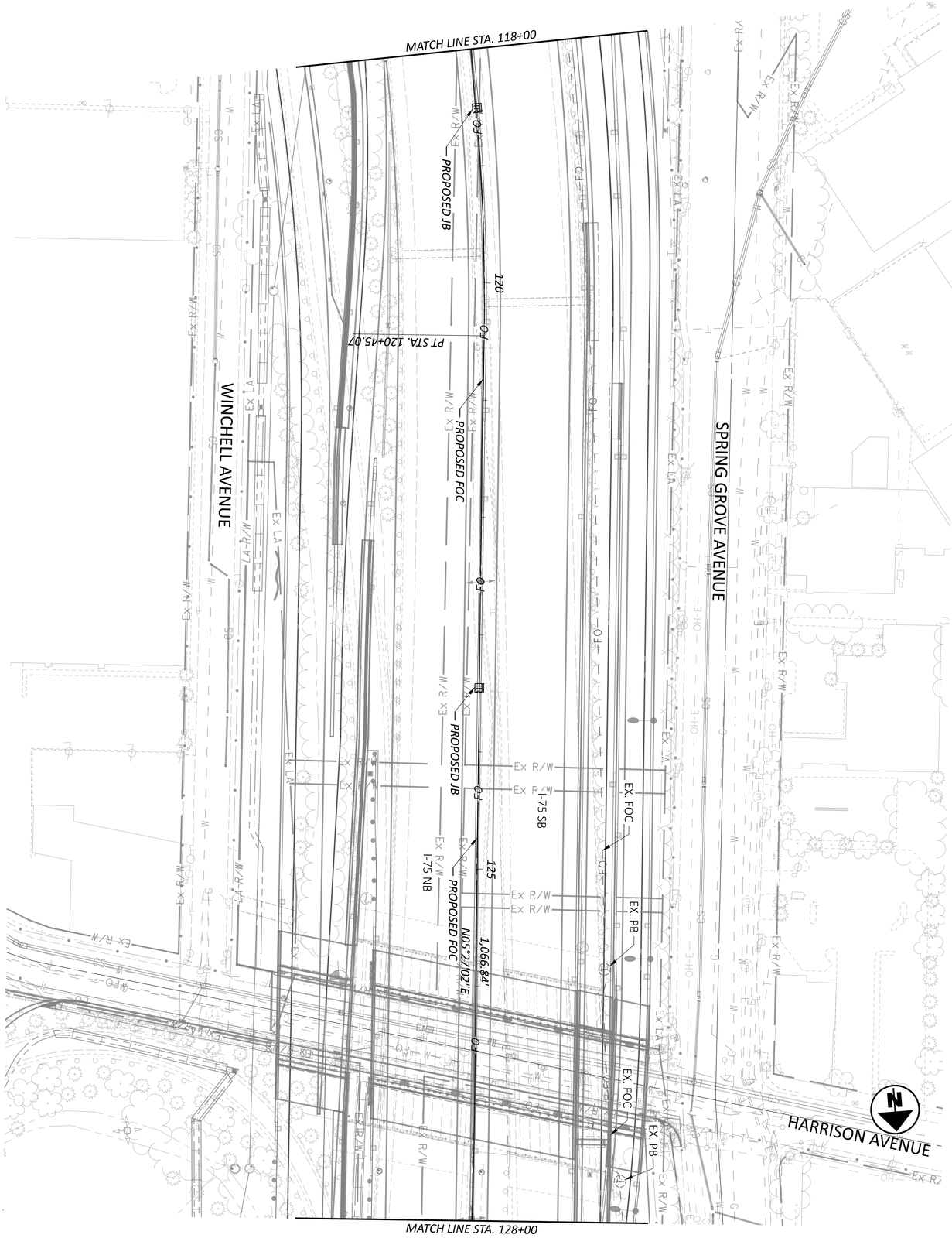
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CRT	AMB 5/17/24	114161	P.410	463

GANNETT FLEMING — DESIGN AGENCY

ITS PLAN - I-75
STA 108+00.00 TO STA 118+00.00

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLP_IR75 - ITS - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:39:00 PM USER: stony
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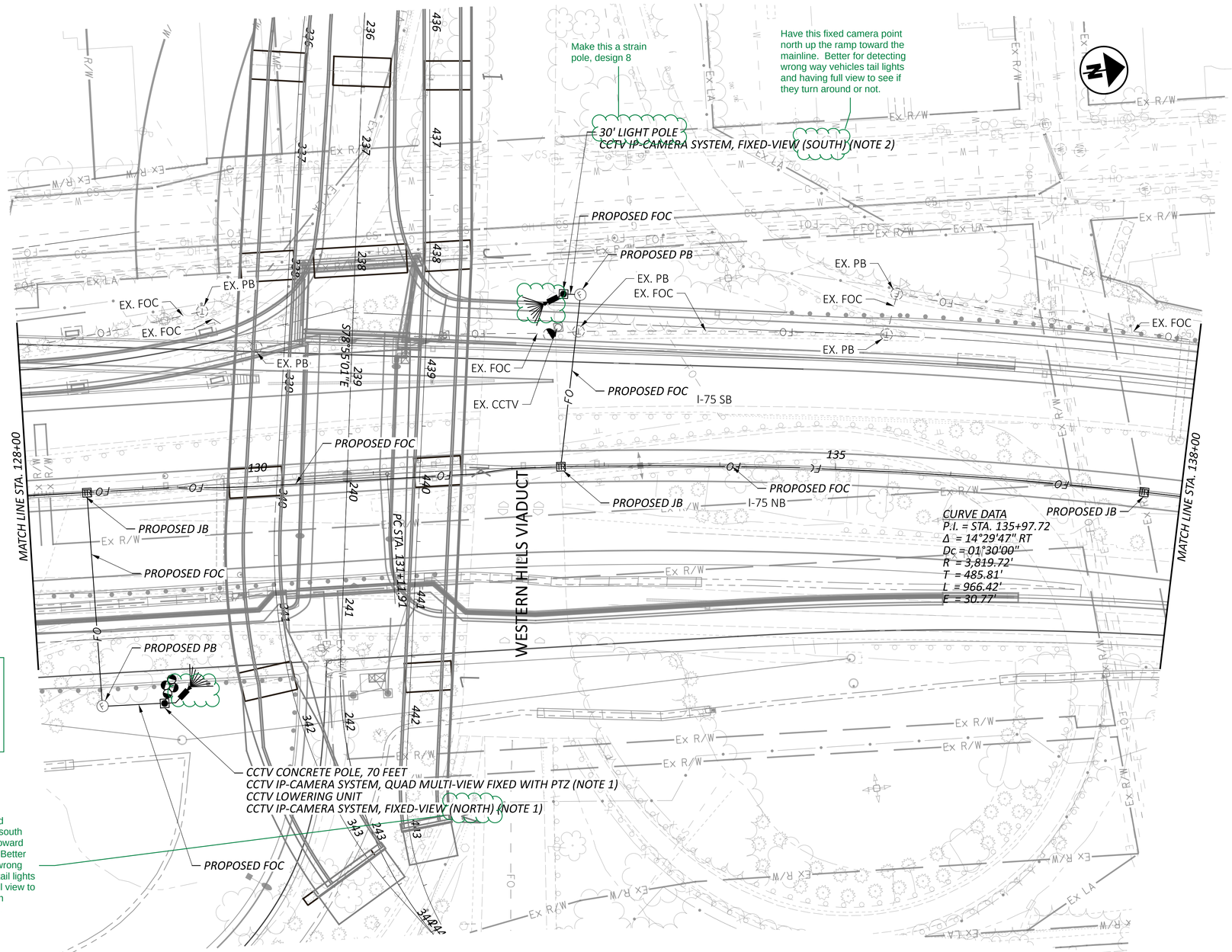


ITS PLAN - I-75
STA 118+00.00 TO STA 128+00.00

HORIZONTAL SCALE IN FEET
0 50
25 100

SHEET	TOTAL
P.411	463

PROJECT ID: 114161
REVIEWER: AMB 5/17/24
DESIGNER: CRT
DESIGN AGENCY: GANNETT FLEMING



In a future stage of design, please additionally show an elevation view sheet showing the camera poles and cabinets locations and where they are in relation to the mainline and ramp elevations, etc. Would also be nice to show elevation of new Western Hills Viaduct levels in relation to where the top of the camera pole will be, etc.

Have this fixed camera point south up the ramp toward the mainline. Better for detecting wrong way vehicles tail lights and having full view to see if they turn around or not.

NOTES

1. INSTALL THE QUAD MULTI-VIEW CCTV CAMERA AT THE TOP OF THE CCTV POLE. ORIENT THE QUAD MULTI-VIEW CCTV TO PROVIDE A COMPREHENSIVE VIEW OF THE VIADUCT OVERPASSES. INSTALL THE FIXED CCTV CAMERA AT A MOUNTING HEIGHT OF 15-20 FEET. ORIENT THE NORTH-LOOKING FIXED CCTV CAMERA TO PROVIDE CLEAR VIEWS OF I-75 NB UNDERNEATH THE VIADUCT OVERPASSES. IDEAL ORIENTATION TO BE DETERMINED BY THE CONTRACTOR. CONTRACTOR IS REQUIRED TO RE-ORIENT CAMERAS IF ODOT TMC CANNOT OBTAIN THE VIEWS SPECIFIED WITH THE INITIAL ORIENTATION.
2. INSTALL FIXED CCTV CAMERA AT THE TOP OF THE POLE. ORIENT THE SOUTH-LOOKING FIXED CCTV CAMERA TO PROVIDE CLEAR VIEWS OF I-75 SB UNDERNEATH THE VIADUCT OVERPASSES. IDEAL ORIENTATION TO BE DETERMINED BY THE CONTRACTOR. CONTRACTOR IS REQUIRED TO RE-ORIENT CAMERA IF ODOT TMC CANNOT OBTAIN THE VIEWS SPECIFIED WITH THE INITIAL ORIENTATION.

Contractor to coordinate with ODOT ITS during install to get the view right the first time and prevent return trip. we do this regularly with other CCTV installations that require manual aiming/focus.

HORIZONTAL SCALE IN FEET
0 25 50 100

ITS PLAN - I-75
STA 128+00.00 TO STA 138+00.00

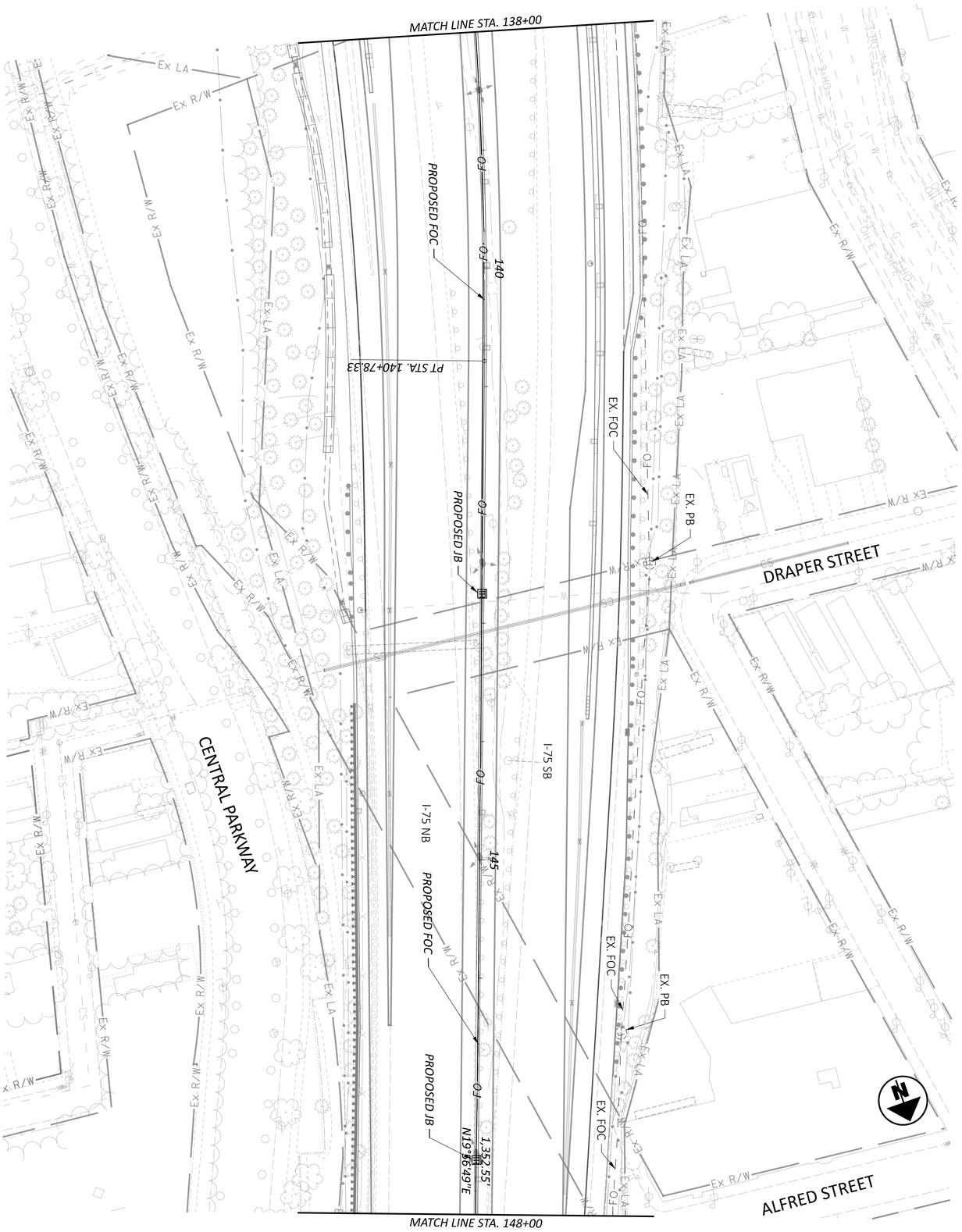
DESIGN AGENCY
GANNETT FLEMING

DESIGNER	CRT
REVIEWER	AMB 5/17/24
PROJECT ID	114161
SHEET	P.412
TOTAL	463

HAM-75-1.95

MODEL: CLP_IR75 - ITS - Plan 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:39:17 PM USER: stony
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MODEL: CLP_IR75 - ITS - Plan 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:39:33 PM USER: stony
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SHEET	TOTAL
P.413	463

PROJECT ID: 114161

REVIEWER: AMB 5/17/24

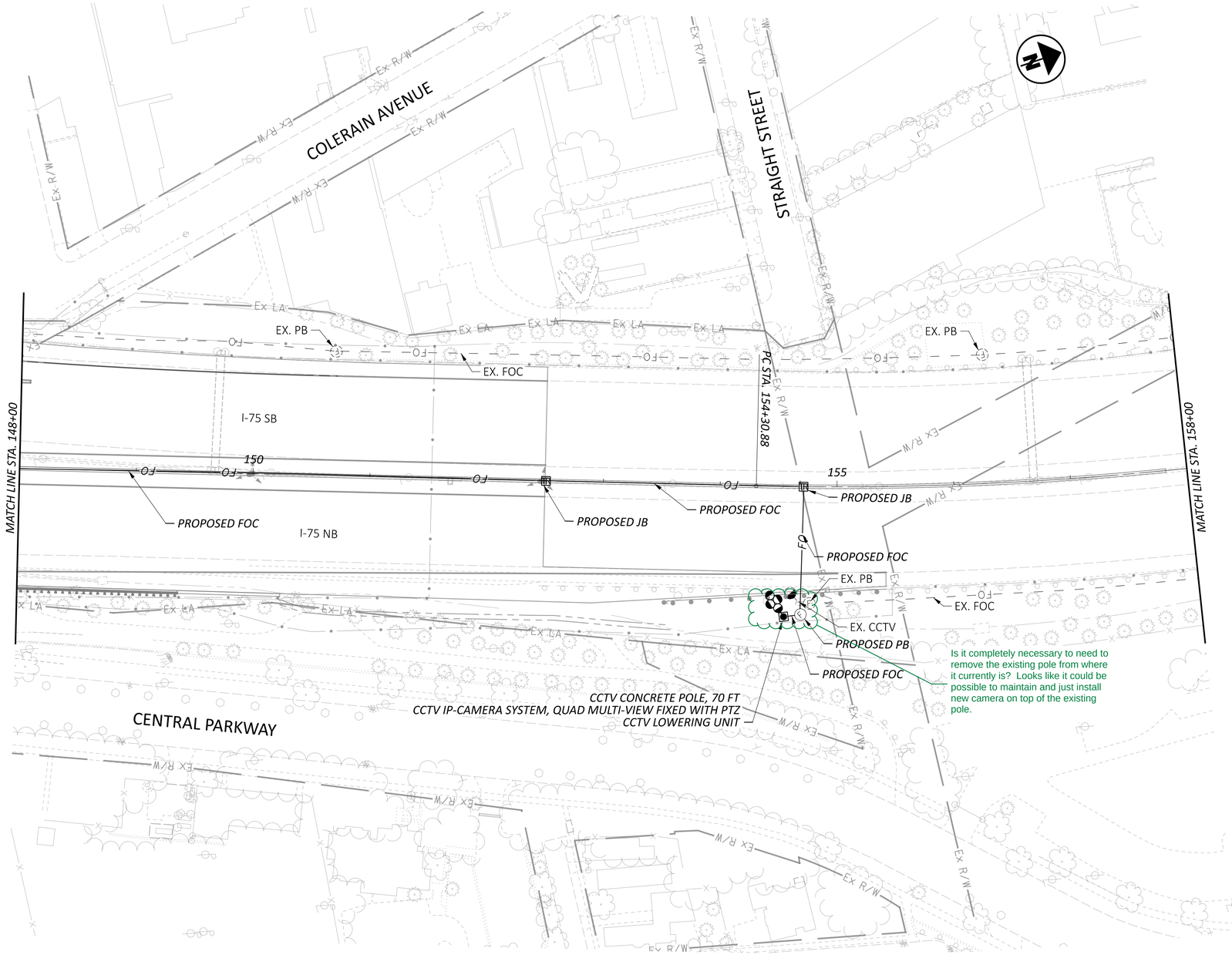
DESIGNER: CRT

DESIGN AGENCY: GANNETT FLEMING

ITS PLAN - I-75
STA 138+00.00 TO STA 148+00.00

HORIZONTAL SCALE IN FEET

0 50
25 100



NOTES

1. ODOT COORDINATION WILL BE REQUIREDTO DEVELOP A FIBER OPTIC TIE-IN LOCATION AT THE PROJECT LIMIT.

HORIZONTAL SCALE IN FEET
0 25 50 100

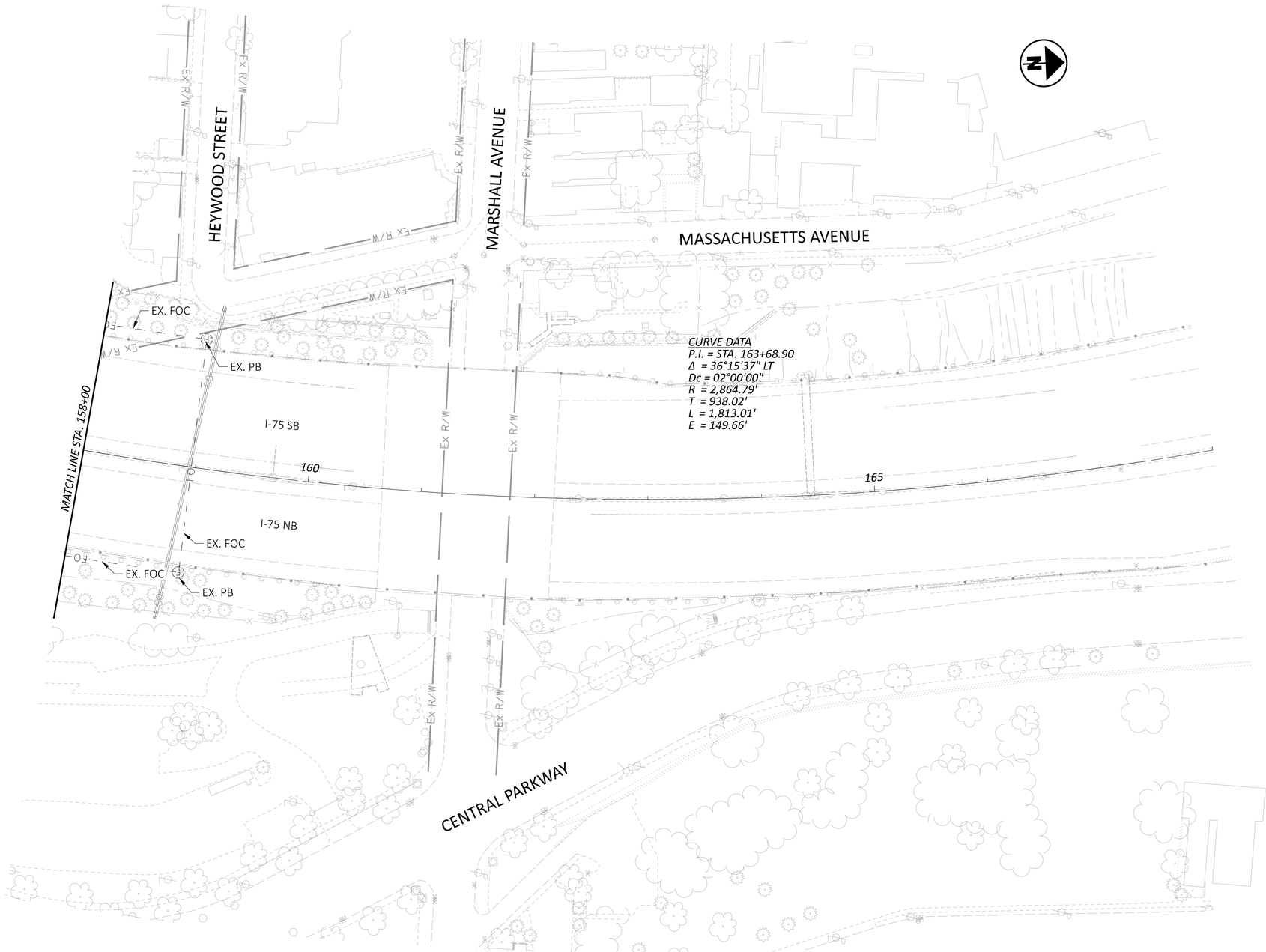
ITS PLAN - I-75
STA 148+00.00 TO STA 158+00.00

DESIGN AGENCY
GANNETT FLEMING

DESIGNER CRT
REVIEWER AMB 5/17/24
PROJECT ID 114161
SHEET P.414 TOTAL 463

HAM-75-1.95

MODEL: CLP_IR75 - ITS - Plan 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:39:47 PM USER: stony
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HORIZONTAL SCALE IN FEET
0 25 50 100

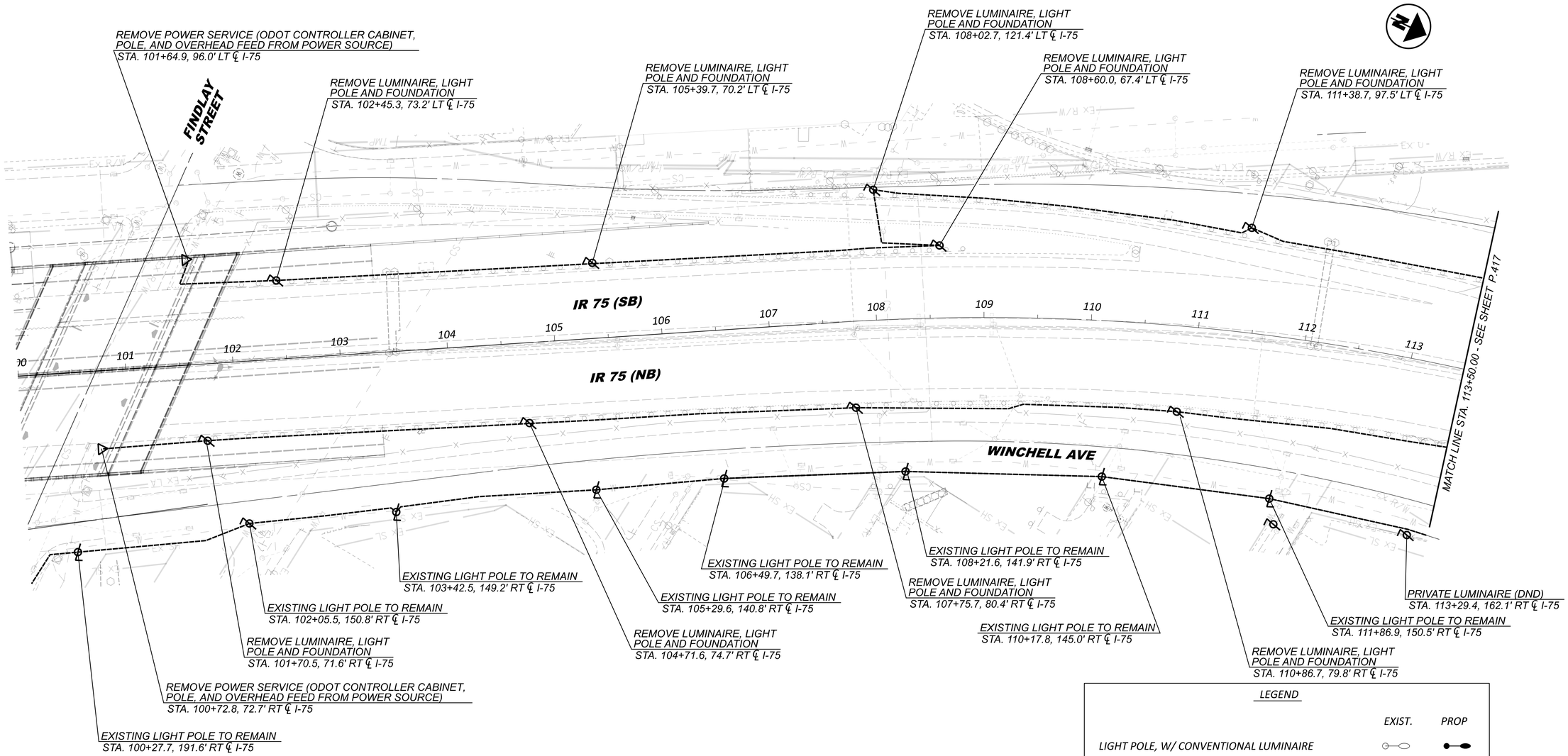
ITS PLAN - I-75
STA 158+00.00 TO STA 168+00.00

DESIGN AGENCY
GANNETT FLEMING

DESIGNER	CRT
REVIEWER	AMB 5/17/24
PROJECT ID	114161
SHEET	P.415
TOTAL	463

HAM-75-1.95

MODEL: CLP_IR75 - ITS - Plan 12 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:39:55 PM USER: stony
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LEGEND

	EXIST.	PROP
LIGHT POLE, W/ CONVENTIONAL LUMINAIRE	○—⬭	●—⬬
LIGHT POLE, LOW MAST, W/ SYMMETRIC LUMINAIRE	⅄	⅄
HIGH MAST UNIT W/ 4 SYMMETRIC LUMINAIRES	✣	✣
UNDERPASS LUMINAIRE	⌓	⌓
LIGHT POLE, POST TOP	○	●
POWER SERVICE	◁	◀

HORIZONTAL SCALE IN FEET
0 25 50 100

IR-75 LIGHTING DEMOLITION PLAN
STA. 100+00 TO STA. 113+50

DESIGN AGENCY: EMH&T
DESIGNER: DRM
REVIEWER: JDS 06-21-24
PROJECT ID: 114161
SHEET: P.416 TOTAL: 463

HAM-75-1.95

MODEL: 114161_LP005 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:36:15 AM USER: sbeal
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EXISTING POLE MTD. LIGHTING CONTROLLER (TO REMAIN)(CINCINNATI)
EXISTING POLE MTD. LUMINAIRE (TO REMAIN)(CINCINNATI)
STA. 119+40.7, 174.1 LT ℄ I-75

EX. WOOD UTILITY POLE (TO BE RELOCATED BY UTILITY)
W/ EX. POLE MTD. LUMINAIRE (TO BE RELOCATED BY UTILITY)
STA. 125+22.1, 171.3' LT ℄ I-75

EXISTING POLE MTD. LUMINAIRE (TO REMAIN)(CINCINNATI)
STA. 118+51.3, 174.5' LT ℄ I-75

EX. WOOD UTILITY POLE (TO BE RELOCATED BY UTILITY)
W/ EX. POLE MTD. LUMINAIRE (TO BE RELOCATED BY UTILITY)
STA. 124+10.6, 172.1' LT ℄ I-75

REMOVE LUMINAIRE, LIGHT
POLE AND FOUNDATION
STA. 3+60.3, 46.9' LT ℄ BANK ST

EX. WOOD UTILITY POLE (TO BE RELOCATED BY UTILITY)
W/ EX. POLE MTD. LUMINAIRE (TO BE RELOCATED BY UTILITY)
STA. 122+84.3, 173.1' LT ℄ I-75

STA. 15+79.9±, 56' LT ℄ I-75
REMOVE EIGHT LUMINAIRES,
CONDUIT AND WIRING FROM
BANK STREET UNDERPASS
(SEE NOTE 1)

REMOVE LUMINAIRE, LIGHT
POLE AND FOUNDATION
STA. 116+84.5, 82.8' LT ℄ I-75

EXISTING PULL BOX (TO REMAIN)
STA. 117+06.8, 186.4' LT ℄ I-75

REMOVE LUMINAIRE, LIGHT
POLE AND FOUNDATION
STA. 119+81.8, 87.1' LT ℄ I-75

REMOVE LUMINAIRE, LIGHT
POLE AND FOUNDATION
STA. 122+70.5, 98.6' LT ℄ I-75

REMOVE LUMINAIRE, LIGHT
POLE AND FOUNDATION
STA. 116+69.1, 171.9' LT ℄ I-75

REMOVE LUMINAIRE, LIGHT POLE
AND FOUNDATION (CINCINNATI)
STA. 114+37.9, 82.9' LT ℄ I-75

EX. WOOD UTILITY POLE
(TO BE RELOCATED BY UTILITY)
W/ EX. POLE MTD. LUMINAIRE
(TO BE RELOCATED BY UTILITY)
STA. 121+62.1, 173.5' LT ℄ I-75

SPRING GROVE AVE

IR 75 (SB)

IR 75 (NB)

114 115 116 117 118 119 120 121 122 123 124 125

MATCH LINE STA. 113+50 - SEE SHEET P.416

MATCH LINE STA. 125+50 - SEE SHEET P.418

REMOVE LUMINAIRE, LIGHT
POLE AND FOUNDATION
STA. 113+58.8, 73.9' RT ℄ I-75

EXISTING LIGHT POLE TO REMAIN
STA. 113+62.4, 159.6' RT ℄ I-75

BANK ST

REMOVE LUMINAIRE, LIGHT
POLE AND FOUNDATION
STA. 116+53.2, 74.5' RT ℄ I-75

REMOVE LUMINAIRE, LIGHT
POLE AND FOUNDATION
STA. 116+69.4, 167.8' RT ℄ I-75

EXISTING LIGHT POLE TO REMAIN
STA. 117+23.9, 216.0' RT ℄ I-75

EXISTING LIGHTING CONTROLLER
TO REMAIN (CINCINNATI)
STA. 117+79.8, 186.6' RT ℄ I-75

REMOVE LUMINAIRE, LIGHT
POLE AND FOUNDATION
STA. 119+36.7, 75.2' RT ℄ I-75

REMOVE TWO LUMINAIRES,
TOWER AND FOUNDATION
STA. 119+77.6, 158.7' RT ℄ I-75

WINCHELL AVE

EXISTING LIGHT POLE TO REMAIN
STA. 120+02.4, 203.8' RT ℄ I-75

REMOVE LUMINAIRE, LIGHT
POLE AND FOUNDATION
STA. 122+48.5, 72.1' RT ℄ I-75

REMOVE LUMINAIRE, LIGHT
POLE AND FOUNDATION
STA. 122+59.6, 121.1' RT ℄ I-75

EXISTING LIGHT POLE TO REMAIN
STA. 122+58.6, 206.7' RT ℄ I-75

REMOVE LUMINAIRE, LIGHT
POLE AND FOUNDATION
STA. 125+26.2, 106.9' RT ℄ I-75

NOTES:
1. THE CONTRACTOR SHALL REMOVE ALL UNDERPASS WALLPACKS, CONDUIT, WIRING, AND ANY OTHER MISCELLANEOUS UNDERPASS LIGHTING MATERIALS MOUNTED ON THE BANK ST BRIDGE STRUCTURE.

HORIZONTAL SCALE IN FEET
0 25 50 100

IR-75 LIGHTING DEMOLITION PLAN
STA. 113+50 TO STA. 125+50

DESIGN AGENCY
EMHT

DESIGNER
DRM

REVIEWER
JDS 06-21-24

PROJECT ID
114161

SHEET P.417 TOTAL 463

HAM-75-1.95

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pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\01-Engineering_EMHT\Lighting\Sheets\114161_LP006.dgn

MATCH LINE STA. 235+50 - SEE BELOW

REMOVE LUMINAIRE, LIGHT POLE AND FOUNDATION
STA. 236+96.1, 48.8' LT ℄ WHV

EX. WOOD UTILITY POLE (TO BE RELOCATED BY UTILITY) W/ EX. POLE MTD. LUMINAIRE (TO BE RELOCATED BY UTILITY)
STA. 129+81.0, 184.1' LT ℄ I-75

EXISTING PULL BOX (REMOVE)
STA. 127+14.7, 119.3' LT ℄ I-75

REMOVE FOUR LUMINAIRES, TOWER AND FOUNDATION
STA. 129+26.0, 145.5' LT ℄ I-75

EX. WOOD UTILITY POLE (TO BE RELOCATED BY UTILITY) W/ EX. POLE MTD. LUMINAIRE (TO BE RELOCATED BY UTILITY)
STA. 125+65.1, 109.7' LT ℄ I-75

EX. WOOD UTILITY POLE (TO BE RELOCATED BY UTILITY) W/ EX. POLE MTD. LUMINAIRE (TO BE RELOCATED BY UTILITY)
STA. 128+71.9, 184.1' LT ℄ I-75

REMOVE LUMINAIRE, LIGHT POLE AND FOUNDATION
STA. 126+27.1, 168.9' LT ℄ I-75

EX. WOOD UTILITY POLE (TO REMAIN) W/ EX. POLE MTD. LUMINAIRE (TO REMAIN)
STA. 131+65.6, 195.4' LT ℄ I-75

REMOVE FOUR LUMINAIRES, TOWER AND FOUNDATION
STA. 134+04.9, 162.6' LT ℄ I-75

EX. GROUND MTD. LIGHTING CONTROLLER TO REMAIN (ODOT)
STA. 135+50.6, 162.6' LT ℄ HARRISON

SPRING GROVE AVE

RAMP E

RAMP F

IR 75 (SB)

WESTERN HILLS VIADUCT

RAMP D

IR 75 (NB)

MATCH LINE STA. 125+50 - SEE SHEET P.417

MATCH LINE STA. 138+50 - SEE SHEET P.419

STA. 126+43.7±, 83' LT ℄ I-75
REMOVE SIX LUMINAIRES, CONDUIT AND WIRING FROM HARRISON AVENUE UNDERPASS (SEE NOTE 1)

REMOVE POWER SERVICE (ODOT CONTROLLER CABINET, POLE, AND OVERHEAD FEED FROM POWER SOURCE)
STA. 5+19.9, 32.9' LT ℄ HARRISON

REMOVE FOUR LUMINAIRES, TOWER AND FOUNDATION
STA. 130+45.7, 146.4' RT ℄ I-75

EXISTING PULL BOX (REMOVE)
STA. 127+24.9, 194.1' RT ℄ I-75

EX. POLE MTD. LIGHTING CONTROLLER (REMOVE) (CINCINNATI)
STA. 5+97.9, 24.8' LT ℄ HARRISON

REMOVE FOUR LUMINAIRES, TOWER AND FOUNDATION
STA. 127+25.8, 295.7' RT ℄ I-75

HARRISON AVE

RAMP C

REMOVE LUMINAIRE, LIGHT POLE AND FOUNDATION
STA. 8+23.0, 21.4' LT ℄ HARRISON AVE

REMOVE FOUR LUMINAIRES, TOWER AND FOUNDATION
STA. 129+06.5, 428.7' RT ℄ I-75

REMOVE FOUR LUMINAIRES, TOWER AND FOUNDATION
STA. 135+50.4, 274.5' RT ℄ I-75

REMOVE THREE LUMINAIRES, TOWER AND FOUNDATION
STA. 135+98.7, 38.1' RT ℄ I-75

STA. 132+11.5±, 83' LT ℄ I-75
REMOVE SIX LUMINAIRES, CONDUIT AND WIRING FROM WESTERN HILLS VIADUCT UNDERPASS (SEE NOTE 1)

REMOVE LUMINAIRE, LIGHT POLE AND FOUNDATION
STA. 233+69.6, 76.4' LT ℄ WHV

REMOVE LUMINAIRE, LIGHT POLE AND FOUNDATION
STA. 10+98.1, 105.9' LT ℄ I-75

EXISTING LIGHT POLE (TO REMAIN)
STA. 233+40.3 168.9' LT ℄ WHV

WESTERN HILLS VIADUCT

RAMP E

RAMP F

REMOVE LUMINAIRE, LIGHT POLE AND FOUNDATION
STA. 235+13.4, 51.1' LT WHV

EXISTING LIGHT POLE (TO REMAIN)
STA. 235+16.1, 230.6' LT ℄ WHV

MATCH LINE STA. 235+50 - SEE ABOVE

NOTES:
1. THE CONTRACTOR SHALL REMOVE ALL UNDERPASS WALLPACKS, CONDUIT, WIRING, AND ANY OTHER MISCELLANEOUS UNDERPASS LIGHTING MATERIALS MOUNTED ON THE HARRISON AVE BRIDGE STRUCTURE.

HORIZONTAL SCALE IN FEET
0 25 50 100

IR-75 LIGHTING DEMOLITION PLAN
STA. 125+50 TO STA. 138+50

DESIGN AGENCY
EMHT

DESIGNER
DRM

REVIEWER
JDS 06-21-24

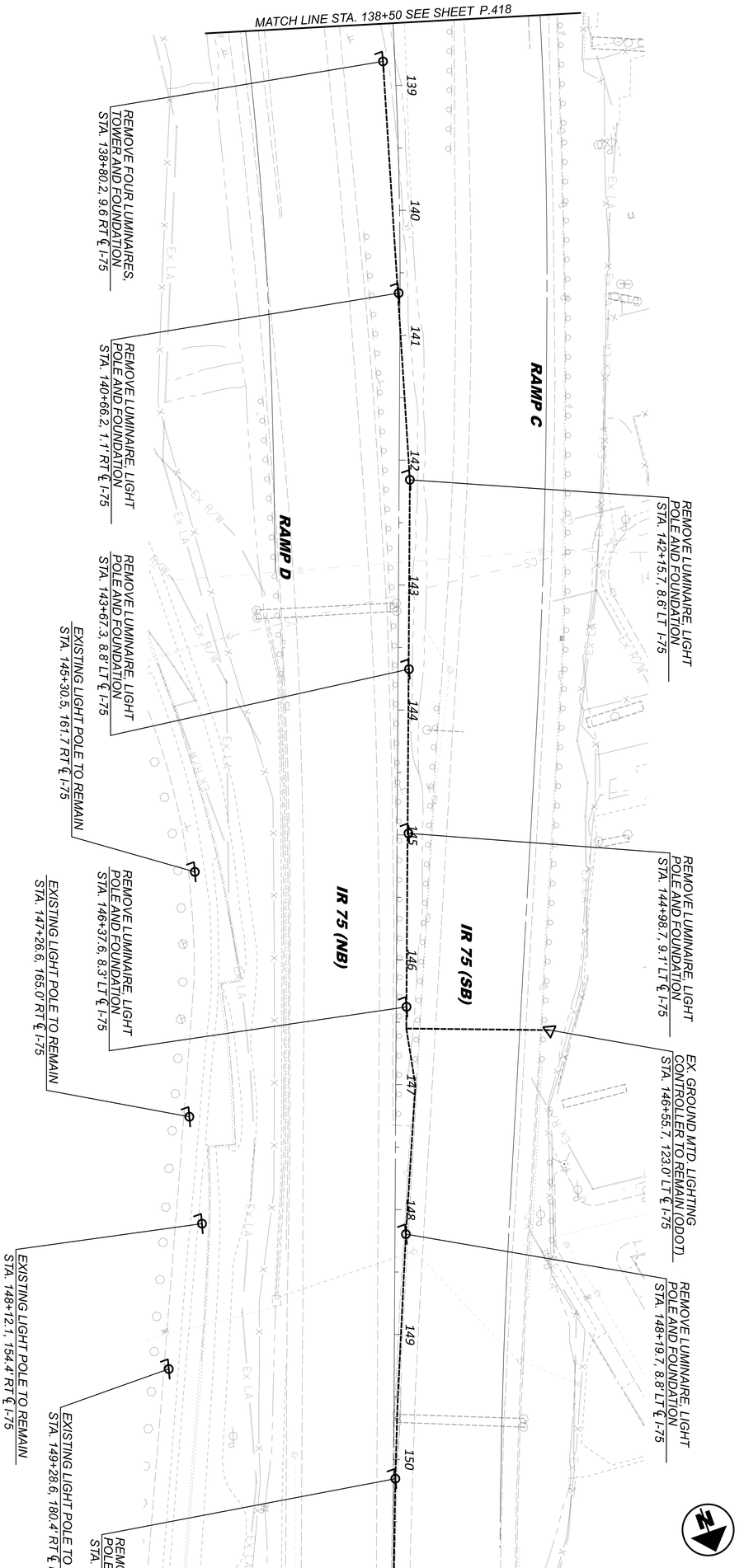
PROJECT ID
114161

SHEET P.418 | TOTAL 463

HAM-75-1.95

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DESIGNER DRM
REVIEWER JDS 06-21-24
PROJECT ID 114161
SHEET P.419 TOTAL 463
DESIGN AGENCY EMH&T

IR-75 LIGHTING DEMOLITION PLAN
STA. 138+50 TO STA. 151+00

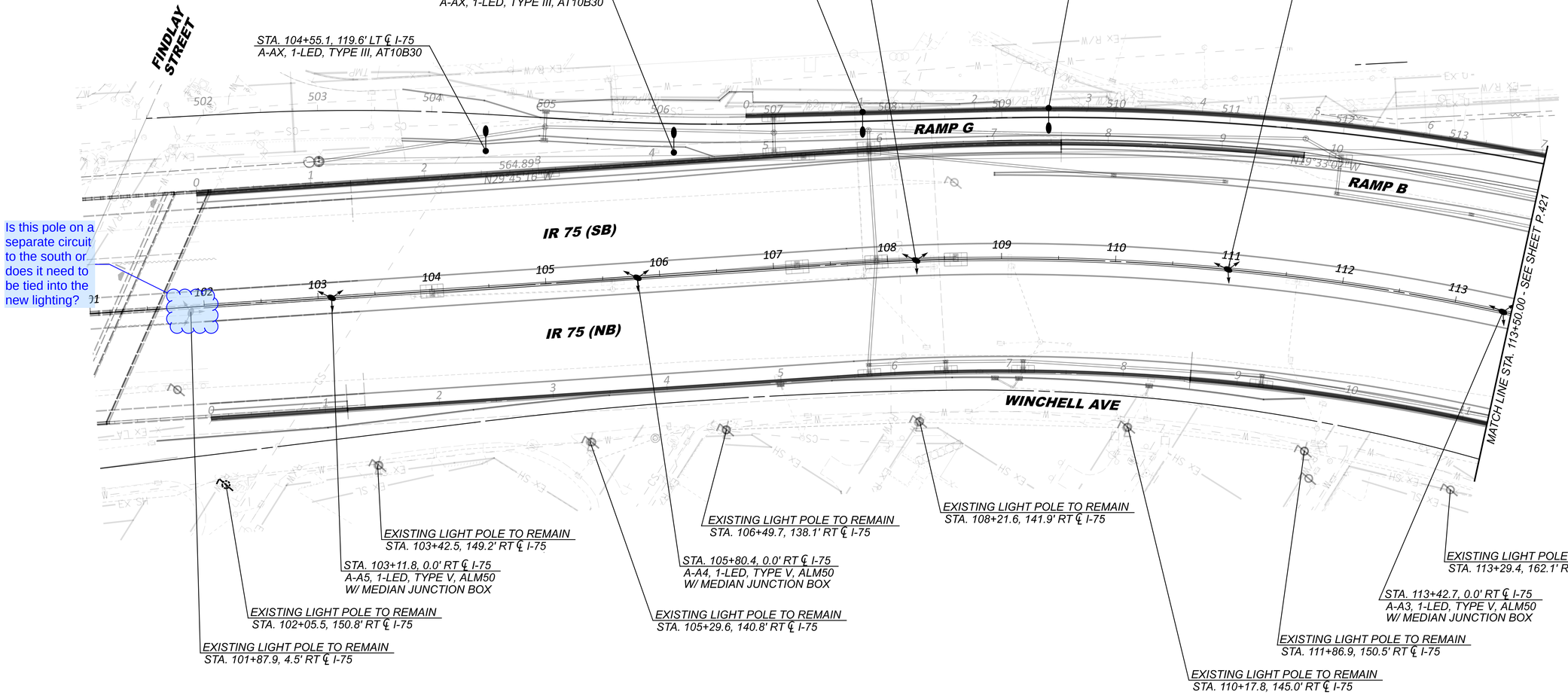
HORIZONTAL SCALE IN FEET
0 50
25 100

Have power source/control center locations been determined yet?

Poles mounted on barrier wall can be anchor base. Call out locations of all junction boxes

A-A3? Are these labels meant to be the pole ID numbers or just the circuit name? Review all labels on each circuit

Is this pole on a separate circuit to the south or does it need to be tied into the new lighting?



STA. 104+55.1, 119.6' LT ℄ I-75
A-AX, 1-LED, TYPE III, AT10B30

STA. 106+19.5, 107.5.0' LT ℄ I-75
A-AX, 1-LED, TYPE III, AT10B30

STA. 107+85.6, 132.1' LT ℄ I-75
A-AX, 1-LED, TYPE III, AT10B30
(MOUNTED ON WALL)

STA. 108+25.1, 0.0' RT ℄ I-75
A-A4, 1-LED, TYPE V, ALM50
W/ MEDIAN JUNCTION BOX

STA. 109+38.9, 132.6' LT ℄ I-75
A-AX, 1-LED, TYPE III, AT10B30
(MOUNTED ON WALL)

STA. 110+98.8, 0.0' RT ℄ I-75
A-A4, 1-LED, TYPE V, ALM50
W/ MEDIAN JUNCTION BOX

EXISTING LIGHT POLE TO REMAIN
STA. 101+87.9, 4.5' RT ℄ I-75

EXISTING LIGHT POLE TO REMAIN
STA. 102+05.5, 150.8' RT ℄ I-75

EXISTING LIGHT POLE TO REMAIN
STA. 103+42.5, 149.2' RT ℄ I-75

STA. 103+11.8, 0.0' RT ℄ I-75
A-A5, 1-LED, TYPE V, ALM50
W/ MEDIAN JUNCTION BOX

EXISTING LIGHT POLE TO REMAIN
STA. 105+29.6, 140.8' RT ℄ I-75

STA. 105+80.4, 0.0' RT ℄ I-75
A-A4, 1-LED, TYPE V, ALM50
W/ MEDIAN JUNCTION BOX

EXISTING LIGHT POLE TO REMAIN
STA. 106+49.7, 138.1' RT ℄ I-75

EXISTING LIGHT POLE TO REMAIN
STA. 108+21.6, 141.9' RT ℄ I-75

EXISTING LIGHT POLE TO REMAIN
STA. 110+17.8, 145.0' RT ℄ I-75

EXISTING LIGHT POLE TO REMAIN
STA. 111+86.9, 150.5' RT ℄ I-75

STA. 113+42.7, 0.0' RT ℄ I-75
A-A3, 1-LED, TYPE V, ALM50
W/ MEDIAN JUNCTION BOX

EXISTING LIGHT POLE TO REMAIN
STA. 113+29.4, 162.1' RT ℄ I-75

LEGEND

	EXIST.	PROP
LIGHT POLE, W/ CONVENTIONAL LUMINAIRE		
LIGHT POLE, LOW MAST, W/ SYMMETRIC LUMINAIRE		
HIGH MAST UNIT W/ 4 SYMMETRIC LUMINAIRES		
UNDERPASS LUMINAIRE		
LIGHT POLE, POST TOP		
POWER SERVICE		

HORIZONTAL SCALE IN FEET
0 25 50 100

IR-75 LIGHTING PLAN
STA. 101+00 TO STA. 113+50

DESIGN AGENCY
EMH&T

DESIGNER
DRM

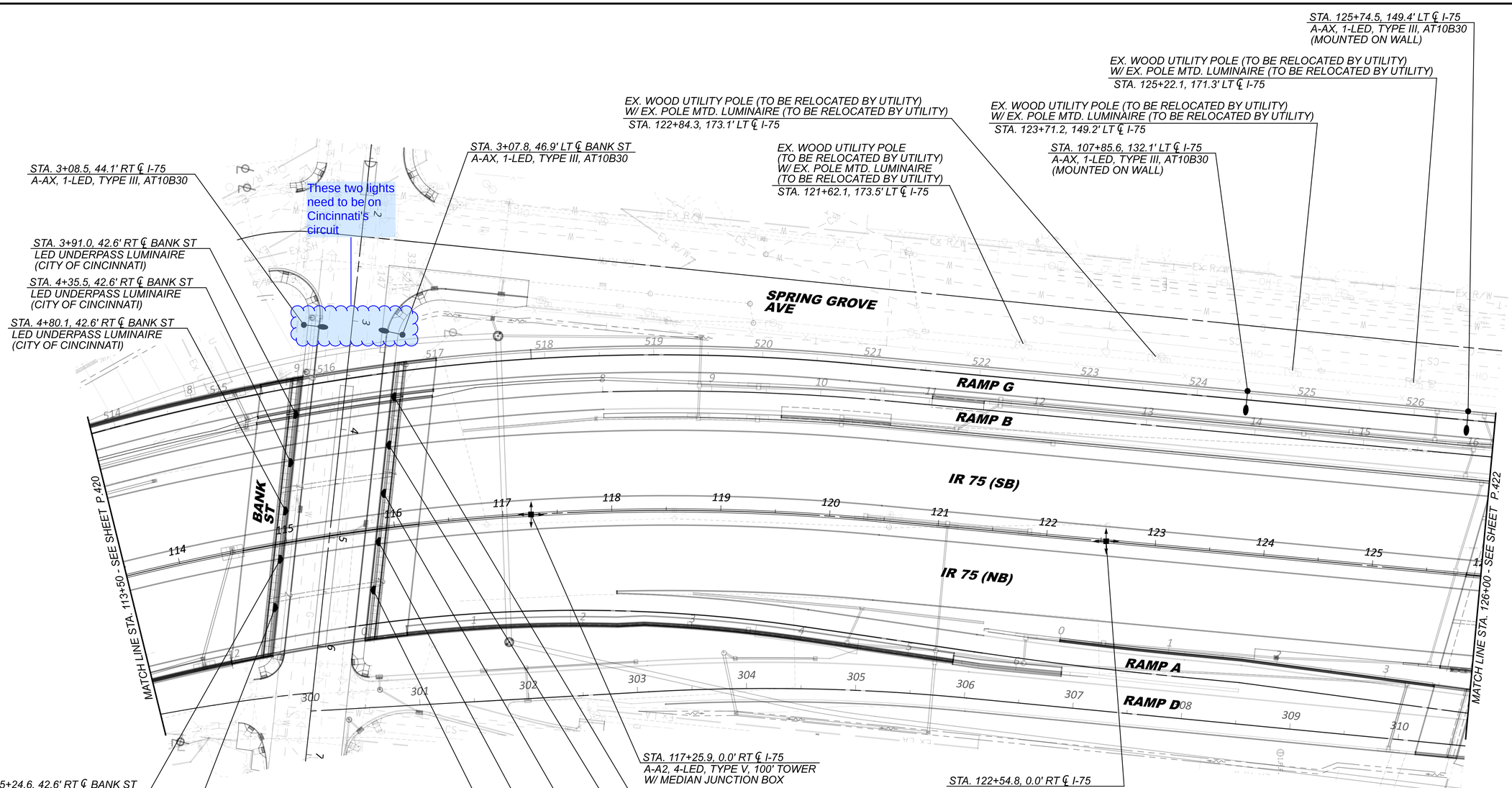
REVIEWER
JDS 06-21-24

PROJECT ID
114161

SHEET P.420 | TOTAL 463

HAM-75-1.95

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LEGEND

	EXIST.	PROP
LIGHT POLE, W/ CONVENTIONAL LUMINAIRE		
LIGHT POLE, LOW MAST, W/ SYMMETRIC LUMINAIRE		
HIGH MAST UNIT W/ 4 SYMMETRIC LUMINAIRES		
UNDERPASS LUMINAIRE		
LIGHT POLE, POST TOP		
POWER SERVICE		

HORIZONTAL SCALE IN FEET
0 25 50 100

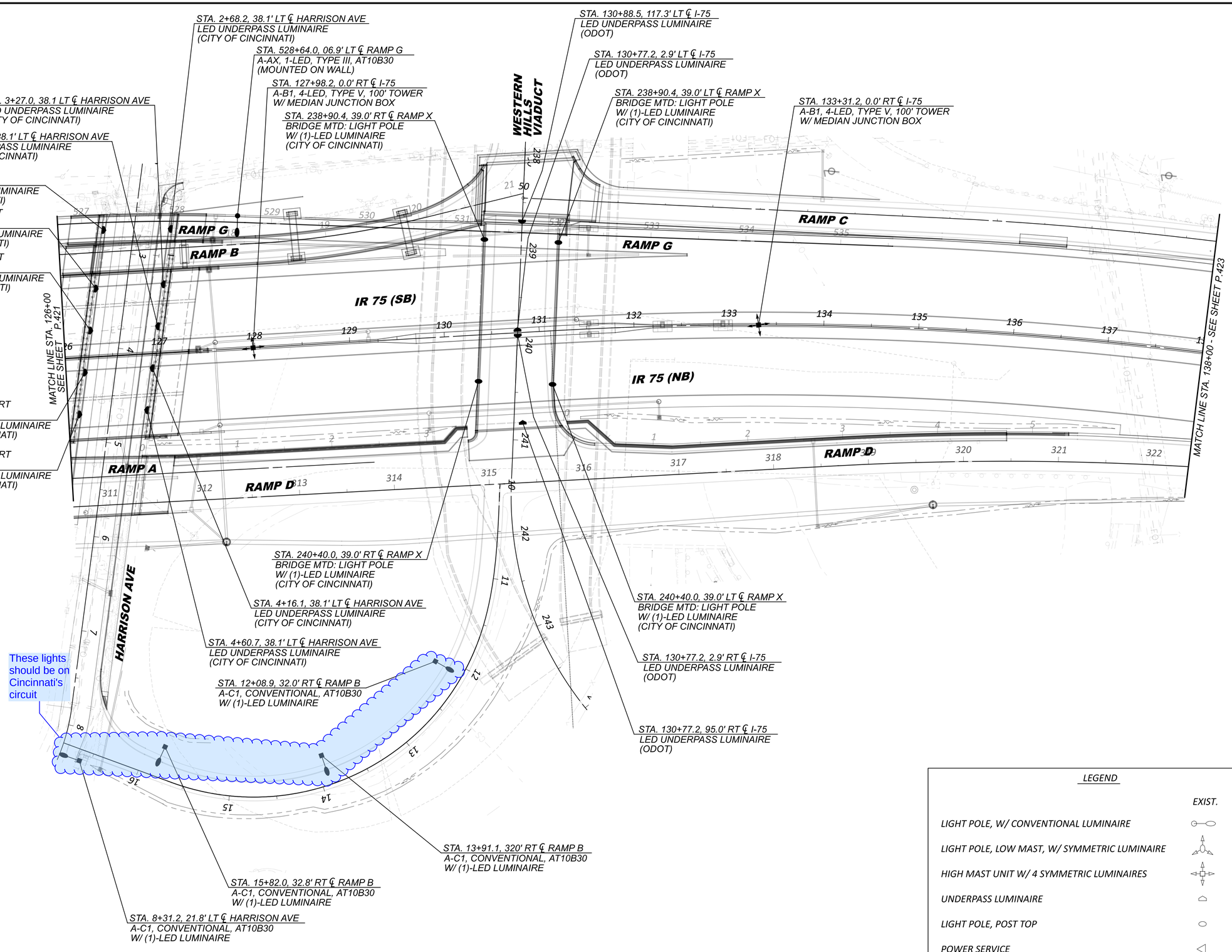
IR-75 LIGHTING PLAN
STA. 113+50 TO STA. 126+00

DESIGN AGENCY
EMHT

DESIGNER DRM
REVIEWER JDS 06-21-24
PROJECT ID 114161
SHEET P.421 TOTAL 463

HAM-75-1.95

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LEGEND	EXIST.	PROP
LIGHT POLE, W/ CONVENTIONAL LUMINAIRE		
LIGHT POLE, LOW MAST, W/ SYMMETRIC LUMINAIRE		
HIGH MAST UNIT W/ 4 SYMMETRIC LUMINAIRES		
UNDERPASS LUMINAIRE		
LIGHT POLE, POST TOP		
POWER SERVICE		

HORIZONTAL SCALE IN FEET
0 25 50 100

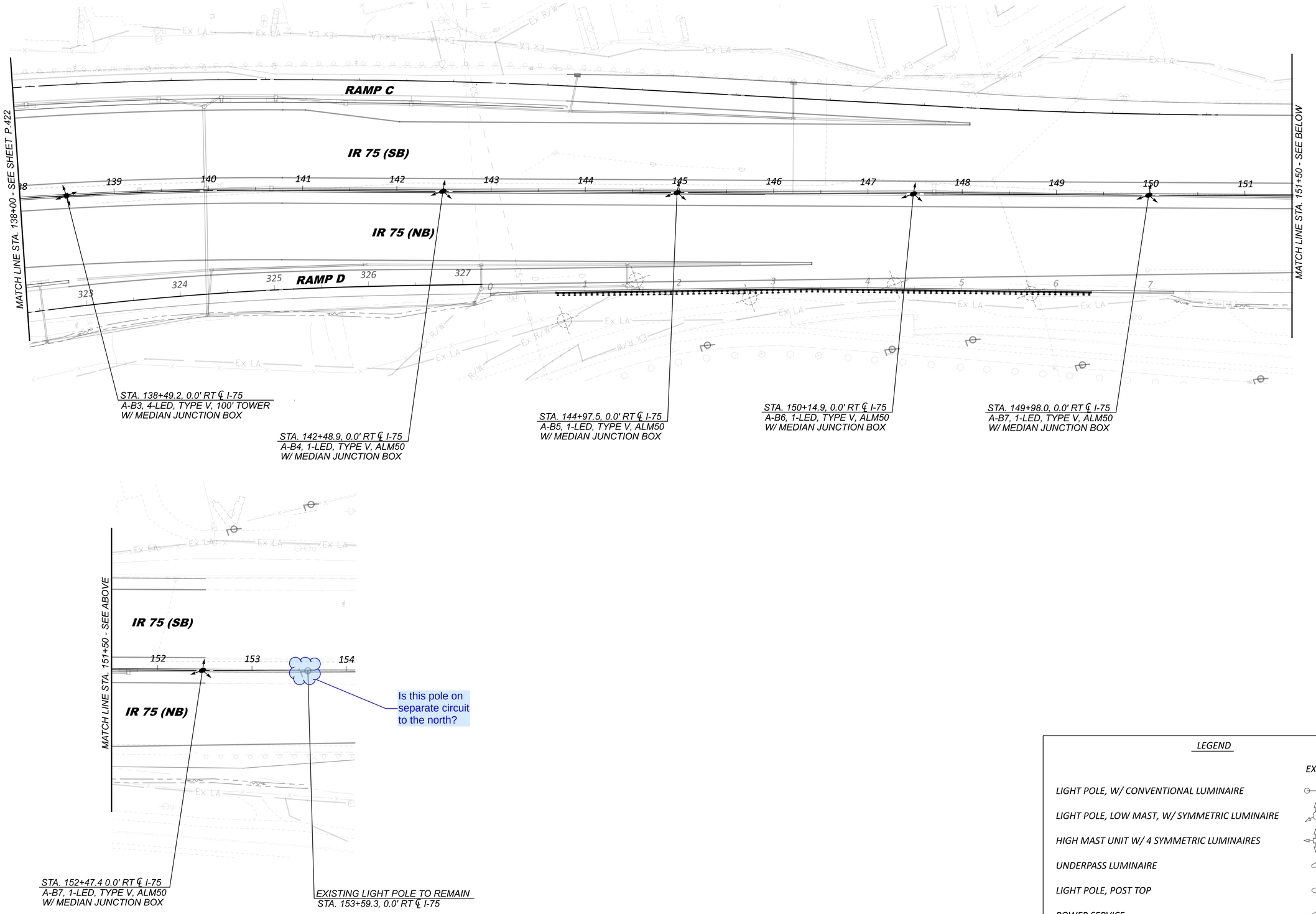
IR-75 LIGHTING PLAN
STA. 126+00 TO STA. 138+00

DESIGN AGENCY
EMH&T

DESIGNER	DRM
REVIEWER	JDS 06-21-24
PROJECT ID	114161
SHEET	P.422
TOTAL	463

HAM-75-1.95

MODEL: 114161_LP003 PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 7:38:54 AM USER: sbeal
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HAM-75-1.95

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HORIZONTAL SCALE IN FEET
0 25 50 100

LEGEND

	EXIST.	PROP
LIGHT POLE, W/ CONVENTIONAL LUMINAIRE		
LIGHT POLE, LOW MAST, W/ SYMMETRIC LUMINAIRE		
HIGH MAST UNIT W/ 4 SYMMETRIC LUMINAIRES		
UNDERPASS LUMINAIRE		
LIGHT POLE, POST TOP		
POWER SERVICE		

IR-75 LIGHTING PLAN
STA. 138+00 TO STA. 151+00

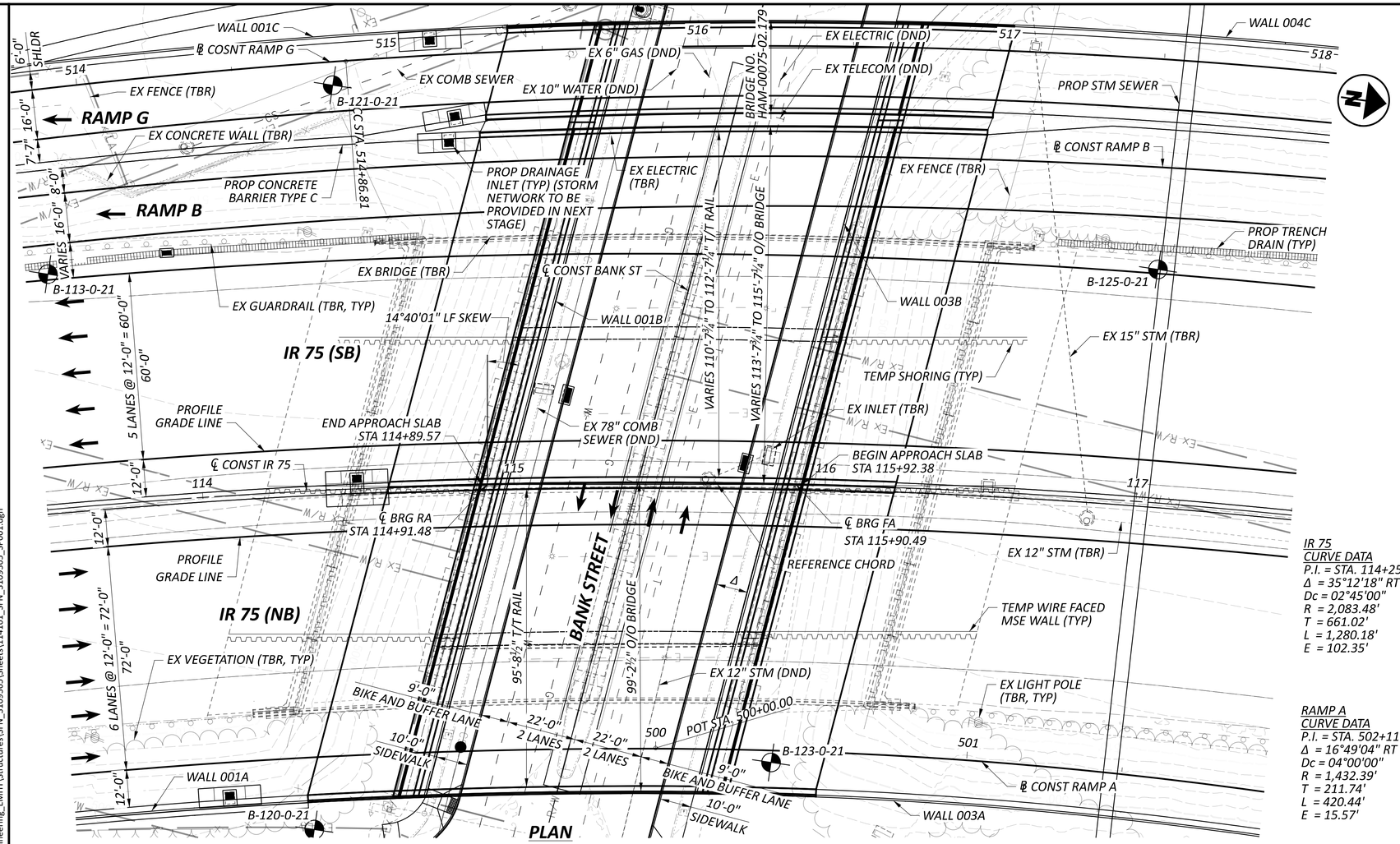
DESIGN AGENCY
EMH&T

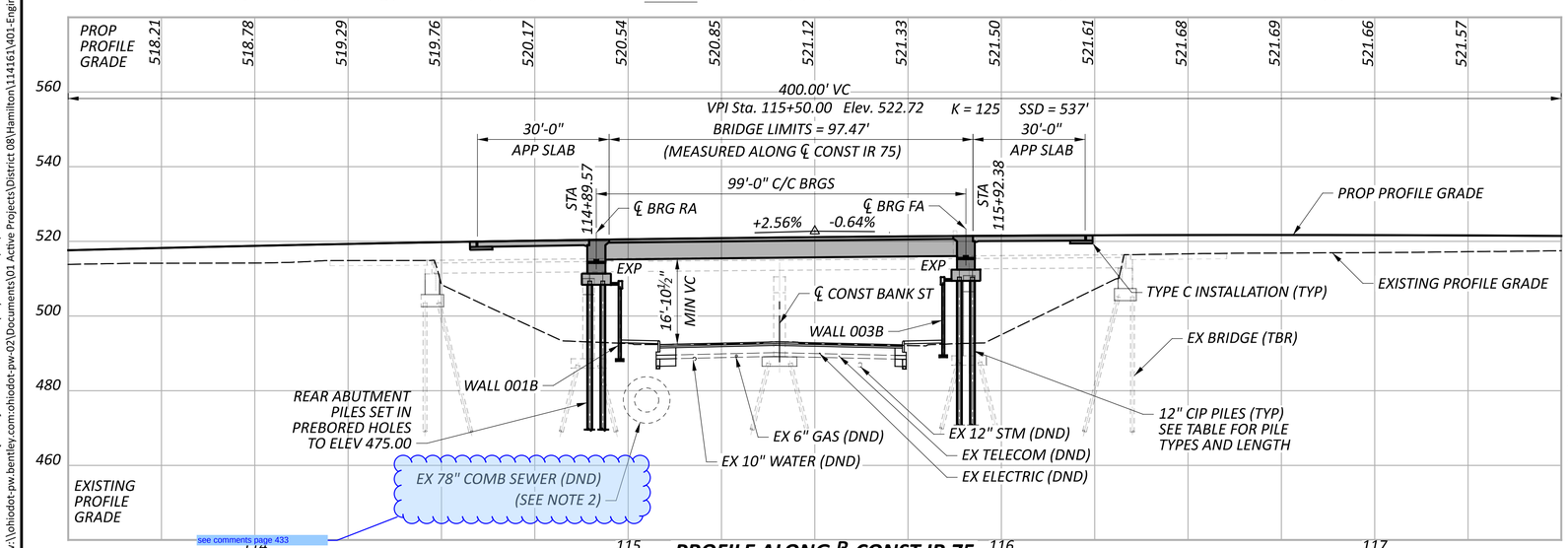
DESIGNER
DRM

REVIEWER
JDS 06-21-24

PROJECT ID
114161

SHEET P.423 TOTAL 463





PROFILE ALONG ℄ CONST IR 75

see comments page 433

IR 75
CURVE DATA
P.I. = STA. 114+25.91
Δ = 35°12'18" RT
Dc = 02°45'00"
R = 2,083.48'
T = 661.02'
L = 1,280.18'
E = 102.35'

RAMP A
CURVE DATA
P.I. = STA. 502+11.74
Δ = 16°49'04" RT
Dc = 04°00'00"
R = 1,432.39'
T = 211.74'
L = 420.44'
E = 15.57'

CONTROL POINT DATA*

CP #1 STA.	105+87.14,	ELEV.	506.50,	OFFSET	141.01,	RT
CP #2 STA.	124+31.09,	ELEV.	501.22,	OFFSET	178.50,	RT

** STATIONS AND OFFSETS ARE ALONG ℄ CONST IR 75.*

FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET P.3 - P.5 /463

NOTES

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

2. ACTUAL PIPE WALL THICKNESS IS NOT KNOWN AT THIS SUBMITTAL. MSD REQUESTED 3' BRICK THICK WALLS BE ASSUMED. ADDITIONAL PIPE INFORMATION WILL BE PROVIDED IN STAGE 2.

DESIGN TRAFFIC:

2029 ADT =	164,850	2029 ADTT =	26,376
2049 ADT =	189,800	2049 ADTT =	30,368

DIRECTIONAL DISTRIBUTION = 52%

LEGEND

- BORING LOCATION
- 16'-6" REQUIRED MINIMUM VERTICAL CLEARANCE
  16'-10½" ACTUAL MINIMUM VERTICAL CLEARANCE
- Δ - 10'-0" REQUIRED HORIZONTAL CLEARANCE
  10'-8" - ACTUAL HORIZONTAL CLEARANCE

DRIVEN PILE LENGTH TABLE		
ABUTMENT	LEFT BRIDGE	RIGHT BRIDGE
REAR	75'	95'
FORWARD	95'	90'

EXISTING STRUCTURE

TYPE: CONTINUOUS ROLLED STEEL BEAM WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE
SPANS: 41'-0"±, 51'-0"±, 51'-0"±, 41'-0"±
ROADWAY: 78'-0"± (LEFT), 66'-3"± (RIGHT) T/T RAIL
LOADING: CF-2000(57)
SKEW: 14°± LF
WEARING SURFACE: 1¾" SUPERPLASTICIZED DENSE CONCRETE OVERLAY
APPROACH SLABS: AS-1-54 (25' LONG)
ALIGNMENT: 3° CURVE RIGHT
SUPERELEVATION: 0.049 FT/FT
STRUCTURE FILE NUMBER: 3109364
DATE BUILT: 7/1/1961
DISPOSITION: TO BE REMOVED AND REPLACED

PROPOSED STRUCTURE

TYPE: SINGLE-SPAN PRESTRESSED CONCRETE I-BEAMS WITH COMPOSITE REINFORCED CONCRETE DECK, SUPPORTED ON SEMI-INTEGRAL ABUTMENTS BEHIND MSE WALLS
SPANS: 99'-0" C/C BRGS
ROADWAY: VARIES 110'-7¾" TO 112'-7¼" (LEFT), 95'-8½" (RIGHT) T/T RAIL
LOADING: VEHICULAR LIVE LOAD: HL-93
FUTURE WEARING SURFACE: 0.06 KIPS/FT²
SKEW: 14°40'01" LF
WEARING SURFACE: 1" MONOLITHIC CONCRETE
APPROACH SLABS: 30'-0"LONG TYPE C INSTALLATION (AS-1-15, AS-2-15)
ALIGNMENT: 2°45'00" CURVE RT
SUPERELEVATION: 0.048 FT/FT
COORDINATES: LATITUDE 39° 07' 10.81" N
LONGITUDE 84° 32' 07.51" W
DECK AREA: 11411 SF (LEFT), 9849 SF (RIGHT)

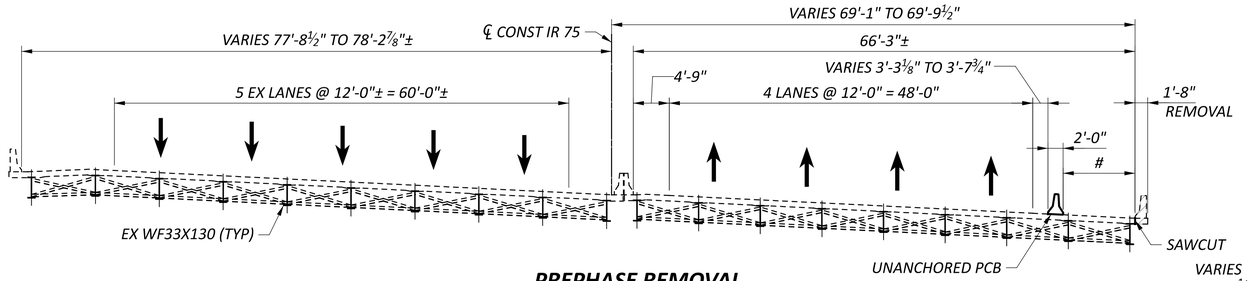
Typo

SITE PLAN
BRIDGE NO. HAM-00075-02.172
IR-75 OVER BANK STREET

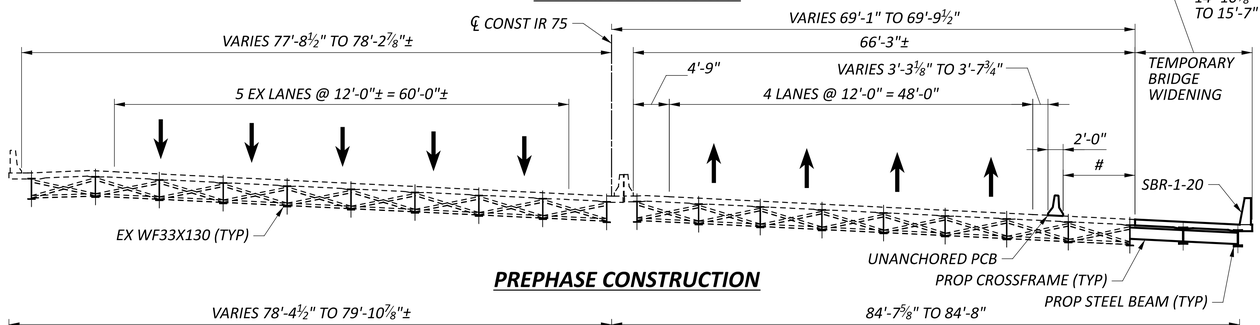
SFN	3109365
DESIGN AGENCY	EMH&T
DESIGNER	JGM
CHECKER	TDA
REVIEWER	CAS 06/21/24
PROJECT ID	114161
SUBSET	1
TOTAL	9
SHEET	P.424
TOTAL	463

HAM-75-1.95

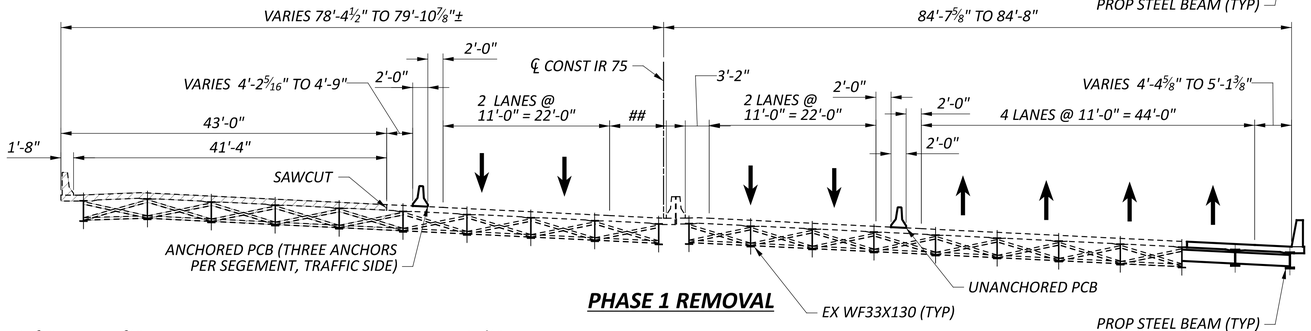
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pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Structures\SFN_3109365\Sheets\114161_SFN_3109365_SP001.dgn



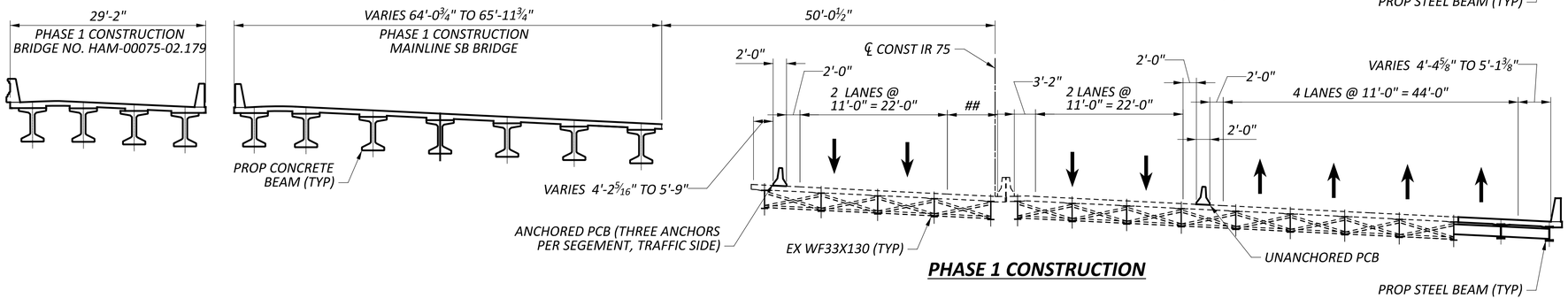
PREPHASE REMOVAL



PREPHASE CONSTRUCTION



PHASE 1 REMOVAL



PHASE 1 CONSTRUCTION

SUGGESTED SEQUENCE OF CONSTRUCTION:

PREPHASE REMOVAL:

1. *INSTALL PCB AS SHOWN ON NORTHBOUND BRIDGE DECK AND BEGIN PREPHASE MOT*
2. *REMOVE 1'-8" OF EXISTING RAILING AND BRIDGE DECK.*

PREPHASE CONSTRUCTION:

1. *CONSTRUCT TEMPORARY BRIDGE WIDENING, INCLUDING PILES, ABUTMENT, PIERS, BEAMS, CROSSFRAMES, DECK, APPROACH SLAB AND SBR-1-20 RAILING.*

PHASE 1 REMOVAL:

1. *RELOCATE PCB AS SHOWN AND BEGIN PHASE 1 MOT.*
2. *SAW CUT AND REMOVE THE EXISTING SOUTHBOUND BRIDGE TO THE LIMITS SHOWN IN THE PLANS*

PHASE 1 CONSTRUCTION:

1. *CONSTRUCT PROPOSED PILES, MSE WALLS AND ABUTMENTS FOR THE RAMP G AND THE PHASE 1 LIMITS OF THE SOUTHBOUND BRIDGES.*
2. *CONSTRUCT PROPOSED BEAMS, CROSSFRAMES, CONCRETE DECK AND RAILINGS FOR THE RAMP G BRIDGE AND THE PHASE 1 LIMITS OF THE MAINLINE SOUTHBOUND BRIDGE.*
3. *CONSTRUCT APPROACH SLABS.*

LEGEND:

- *DENOTES AREAS TO BE REMOVED PER ITEM 202 - STRUCTURE REMOVED, OVER 20' SPAN, AS PER PLAN*

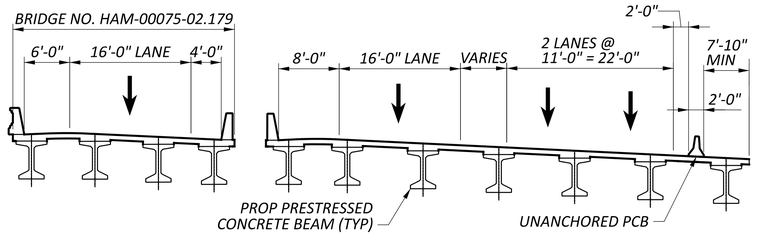
- *VARIES 7'-10¼" TO 8'- 2⅞"*
- *VARIES 6'-2" TO 7'- 5⅝"*

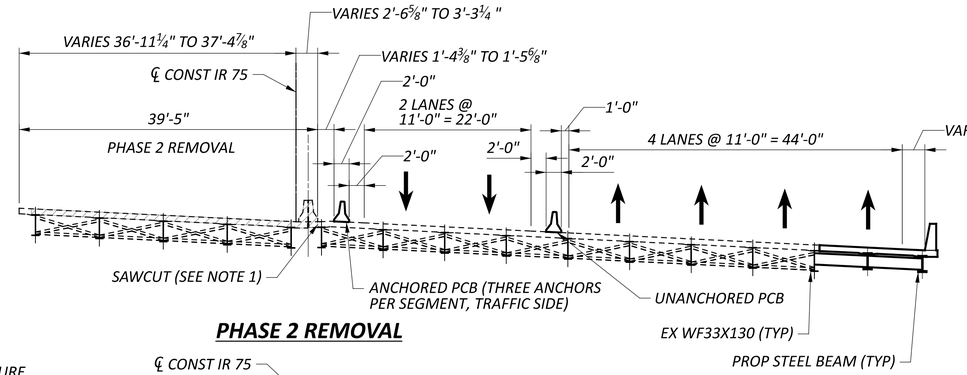
PHASE CONSTRUCTION DETAILS (1 OF 3)
BRIDGE NO. HAM-00075-02.172
IR-75 OVER BANK STREET

SFN 3109365
DESIGN AGENCY EMH&T
DESIGNER JGM | CHECKER TDA
REVIEWER CAS 06/21/24
PROJECT ID 114161
SUBSET 2 | TOTAL 9
SHEET P.425 | TOTAL 463

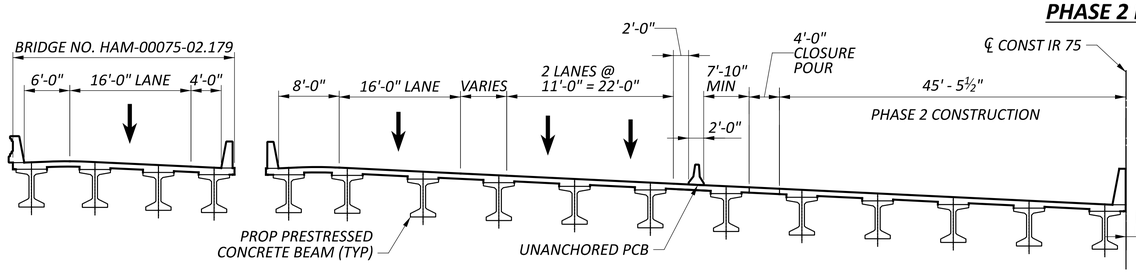
HAM-75-1.95

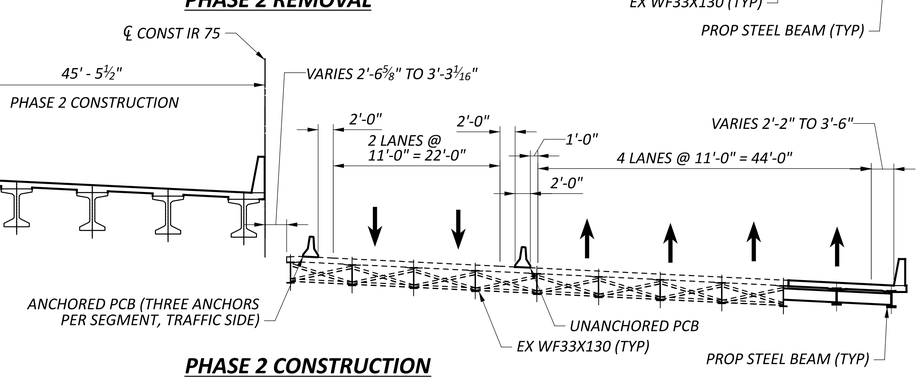
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pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Structures\SFN_3109365\Sheets\114161_SFN_3109365_SC001.dgn



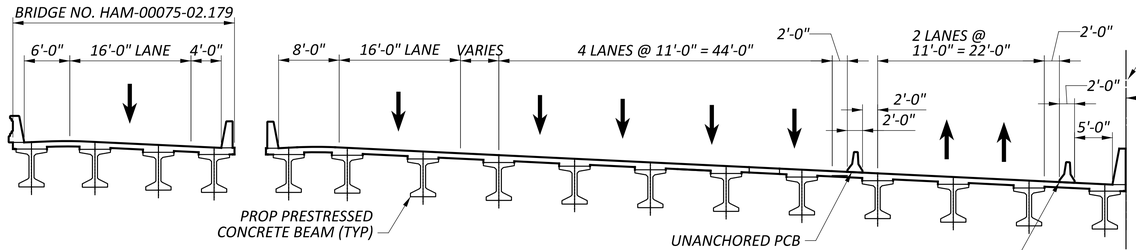


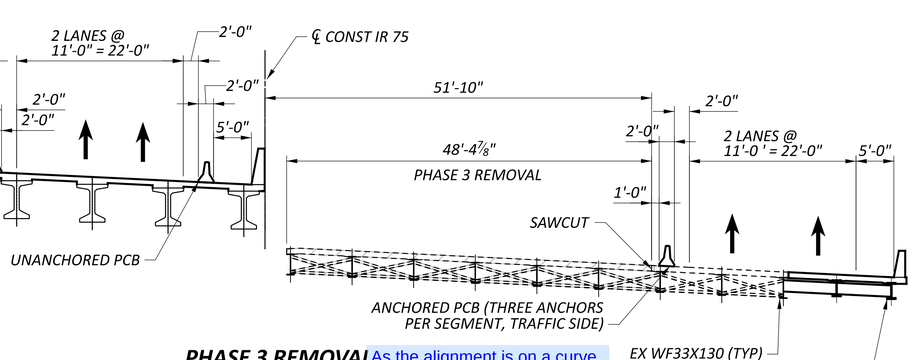
PHASE 2 REMOVAL





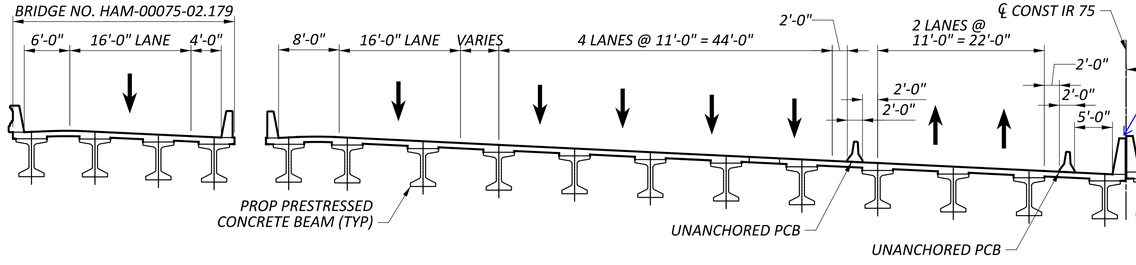
PHASE 2 CONSTRUCTION

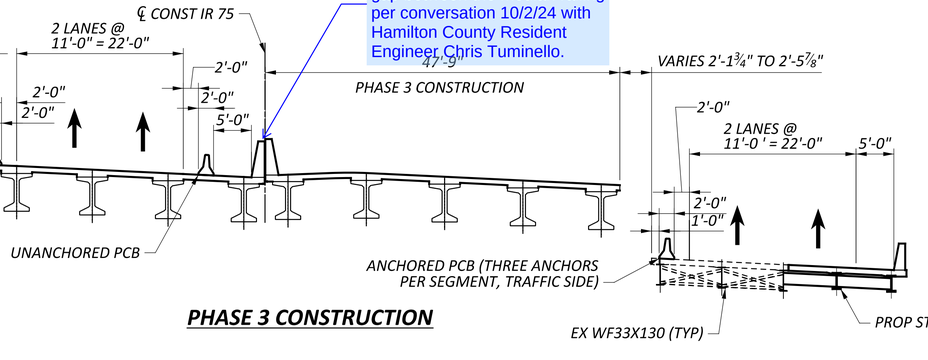




PHASE 3 REMOVAL

As the alignment is on a curve, there needs to be at least a 3" gap between the median railing per conversation 10/2/24 with Hamilton County Resident Engineer Chris Tuminello.





PHASE 3 CONSTRUCTION

SUGGESTED SEQUENCE OF CONSTRUCTION:

PHASE 2 REMOVAL:

1. *RELOCATE PCB AS SHOWN AND BEGIN PHASE 2 MOT.*
2. *SAWCUT AND REMOVE EXISTING NORTHBOUND AND SOUTHBOUND BRIDGE TO THE LIMITS SHOWN IN THE PLANS.*

PHASE 2 CONSTRUCTION:

1. *CONSTRUCT PROPOSED PILES, MSE WALLS AND ABUTMENTS FOR THE PHASE 2 LIMITS OF THE SOUTHBOUND BRIDGE.*
2. *CONSTRUCT PROPOSED BEAMS, CROSSFRAMES, CONCRETE DECK AND RAILING FOR THE PHASE 2 LIMITS OF THE MAINLINE NORTHBOUND BRIDGE.*
3. *CONSTRUCT APPROACH SLABS*

PHASE 3 REMOVAL:

1. *RELOCATE PCB AS SHOWN AND BEGIN PHASE 3 MOT.*
2. *SAWCUT AND REMOVE THE EXISTING NORTHBOUND BRIDGE TO THE LIMITS SHOWN IN THE PLANS.*

PHASE 3 CONSTRUCTION:

1. *CONSTRUCT PROPOSED PILES, MSE WALLS AND ABUTMENTS FOR THE PHASE 3 LIMITS OF THE NORTHBOUND BRIDGE.*
2. *CONSTRUCT PROPOSED BEAMS, CROSSFRAMES, CONCRETE DECK AND PARAPETS FOR THE PHASE 3 LIMITS OF THE MAINLINE NORTHBOUND BRIDGE.*
3. *CONSTRUCT APPROACH SLABS*

NOTES:

1. *REMOVE EXISTING PARAPET AND SAWCUT DECK ALONG THE EDGE OF EXISTING WEST BEAM FLANGE.*

LEGEND:

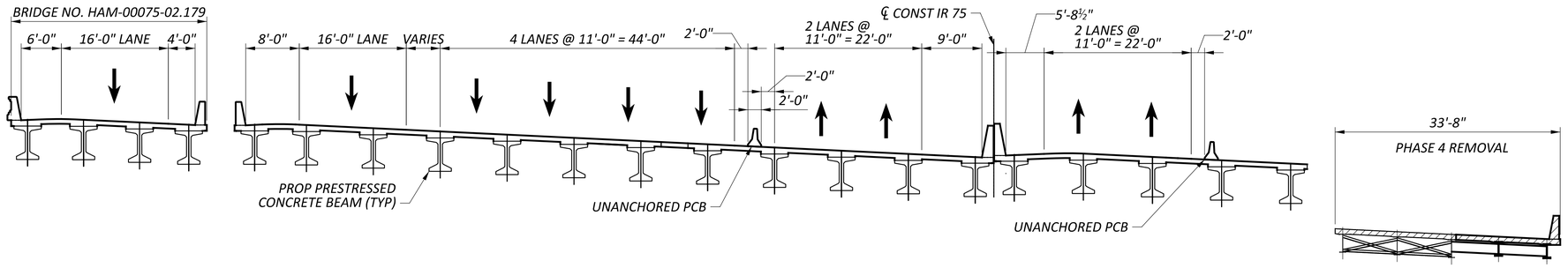
- *DENOTES AREAS TO BE REMOVED PER ITEM 202 - STRUCTURE REMOVED, OVER 20' SPAN, AS PER PLAN*

PHASE CONSTRUCTION DETAILS (2 OF 3)
BRIDGE NO. HAM-00075-02.172
IR-75 OVER BANK STREET

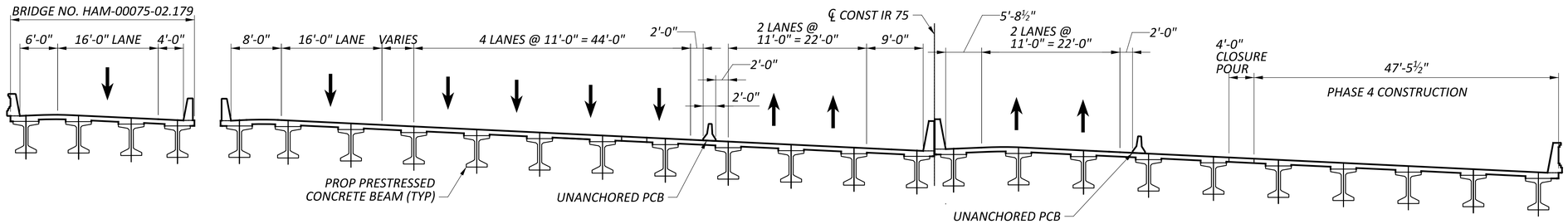
SFN 3109365
DESIGN AGENCY EMH&T
DESIGNER JGM | CHECKER TDA
REVIEWER CAS 06/21/24
PROJECT ID 114161
SUBSET 3 | TOTAL 9
SHEET P.426 | TOTAL 463

HAM-75-1.95

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 1:44:19 PM USER: aibrahimkhail
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161\401-Engineering_EMHT\Structures\SFN_3109365\Sheets\114161_SFN_3109365_SC002.dgn



PHASE 4 REMOVAL



PHASE 4 CONSTRUCTION

SUGGESTED SEQUENCE OF CONSTRUCTION:

PHASE 4 REMOVAL:

1. *RELOCATE PCB AS SHOWN AND BEGIN PHASE 4 MOT.*
2. *REMOVE REMAINING PORTIONS OF EXISTING NORTHBOUND BRIDGE.*

PHASE 4 CONSTRUCTION:

1. *CONSTRUCT PROPOSED PILES, MSE WALLS AND ABUTMENTS FOR THE PHASE 4 LIMITS OF THE NORTHBOUND BRIDGE.*
2. *CONSTRUCT PROPOSED BEAMS, CROSSFRAMES, CONCRETE DECK AND RAILING FOR THE PHASE 4 LIMITS OF THE MAINLINE NORTHBOUND BRIDGE.*
3. *CONSTRUCT APPROACH SLABS*

LEGEND:

- *DENOTES AREAS TO BE REMOVED PER ITEM 202 - STRUCTURE REMOVED, OVER 20' SPAN, AS PER PLAN*

PHASE CONSTRUCTION DETAILS (3 OF 3)
BRIDGE NO. HAM-00075-02.172
IR-75 OVER BANK STREET

SFN 3109365

DESIGN AGENCY E M H&T

DESIGNER	CHECKER
JGM	TDA

REVIEWER: CAS 06/21/24

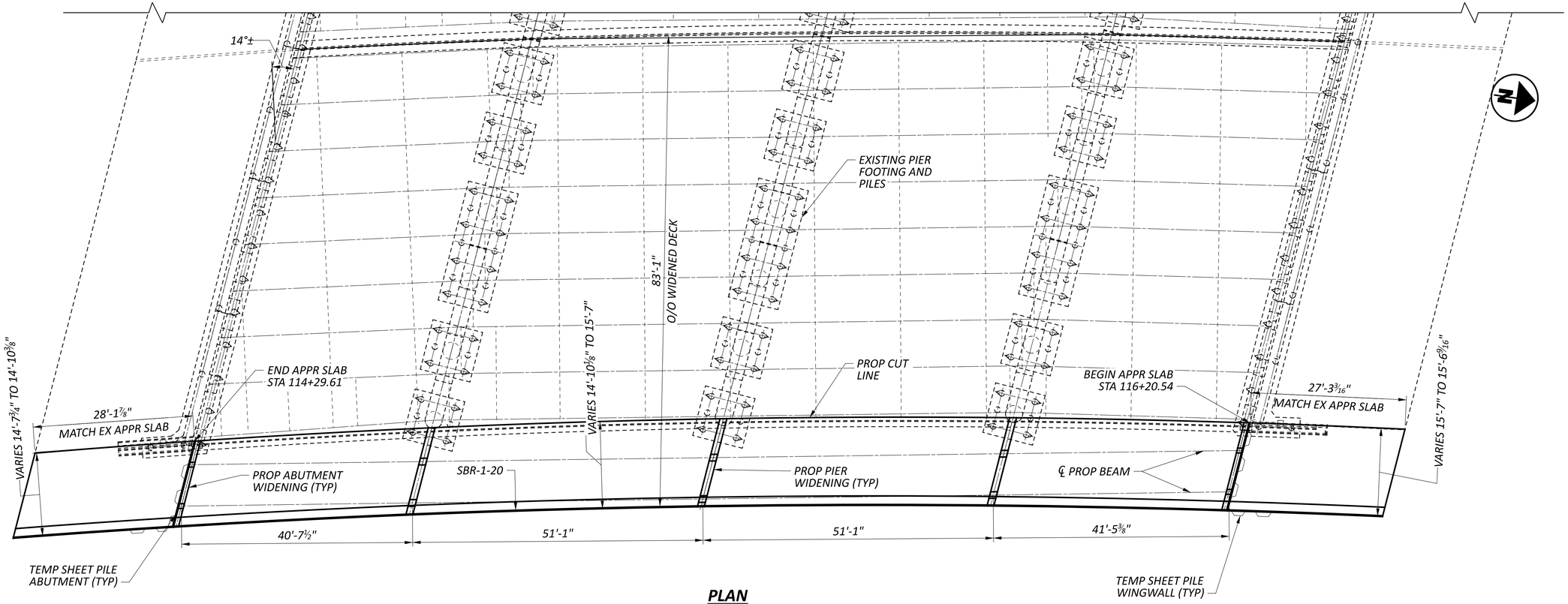
PROJECT ID: 114161

SUBSET	TOTAL
4	9

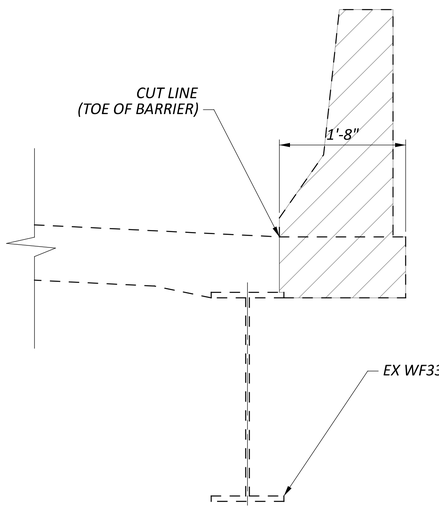
SHEET	TOTAL
P.427	463

HAM-75-1.95

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PLAN

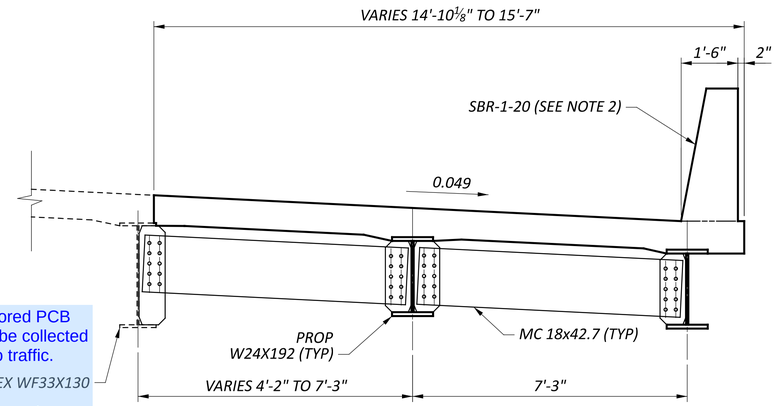


PARTIAL TRANSVERSE SECTION
(REMOVAL)

The entire deck is draining to this side. Anchored PCB may be used; however, runoff would need to be collected or contained to prevent outletting directly onto traffic. PCB would also require 1' back side offset.

Spray foam used to fill voids beneath roadway and around culverts, maybe it can be used to fill the voids beneath the wall. Not sure if it runoff would seep through or be channeled along the gutter.

As long as the reduced shoulder (to maintain 1' offset) maintains the 10' dry lane and runoff does not outlet onto traffic below, either method is acceptable. At that point, cost can be determining factor.



TRANSVERSE SECTION
(PROPOSED WIDENING)

NOTE TO REVIEWER:

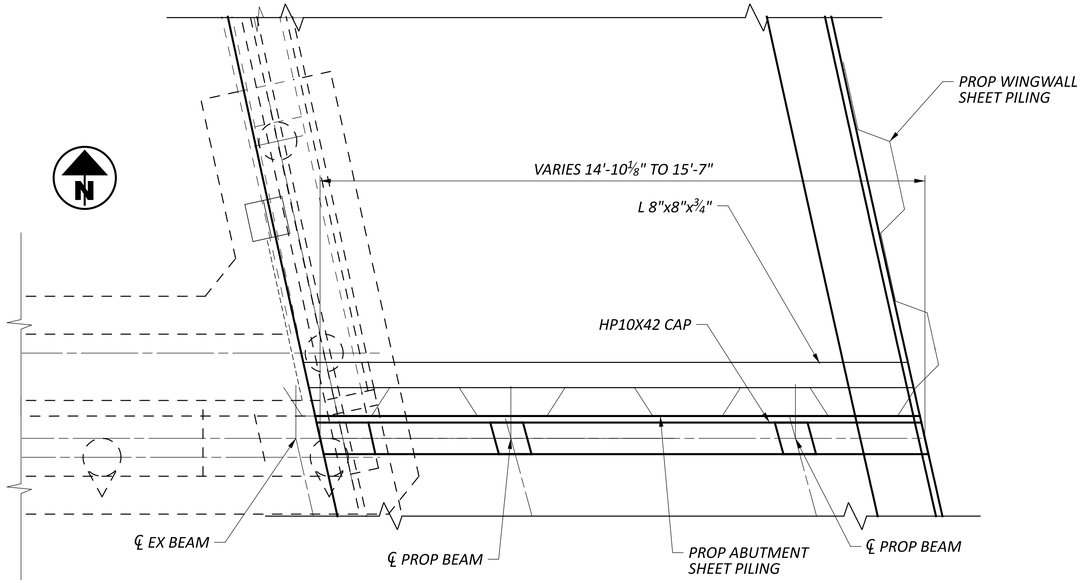
1. AS TEMPORARY BRIDGE WIDENING WAS NOT IN THE ORIGINAL SCOPE, WE ARE PROVIDING DETAILS FOR THE WIDENING IN THE REPLACEMENT SUBSET. FURTHER COORDINATION WITH THE DISTRICT WILL DETERMINE IF THIS IS TO BE A STANDALONE PLAN SET. PLEASE REVIEW AND ADVISE ON ANY DISTRICT PREFERENCES AS IT PERTAINS TO THE TEMPORARY WIDENING DETAILS SHOWN.
2. PLEASE ADVISE IF ODOT STANDARD RAILING AS SHOWN IS PREFERRED OR IF PCB IS ACCEPTABLE. THIS BARRIER WILL BE IN PLACE FOR SEVERAL YEARS AND WITH THE NEW DECK BEING PLACED BELOW THE BARRIER A CIP RAILING IS FEASIBLE TO CONSTRUCT IN THIS LOCATION.

TEMPORARY BRIDGE DETAILS
BRIDGE NO. HAM-00075-02.172
IR-75 OVER BANK STREET

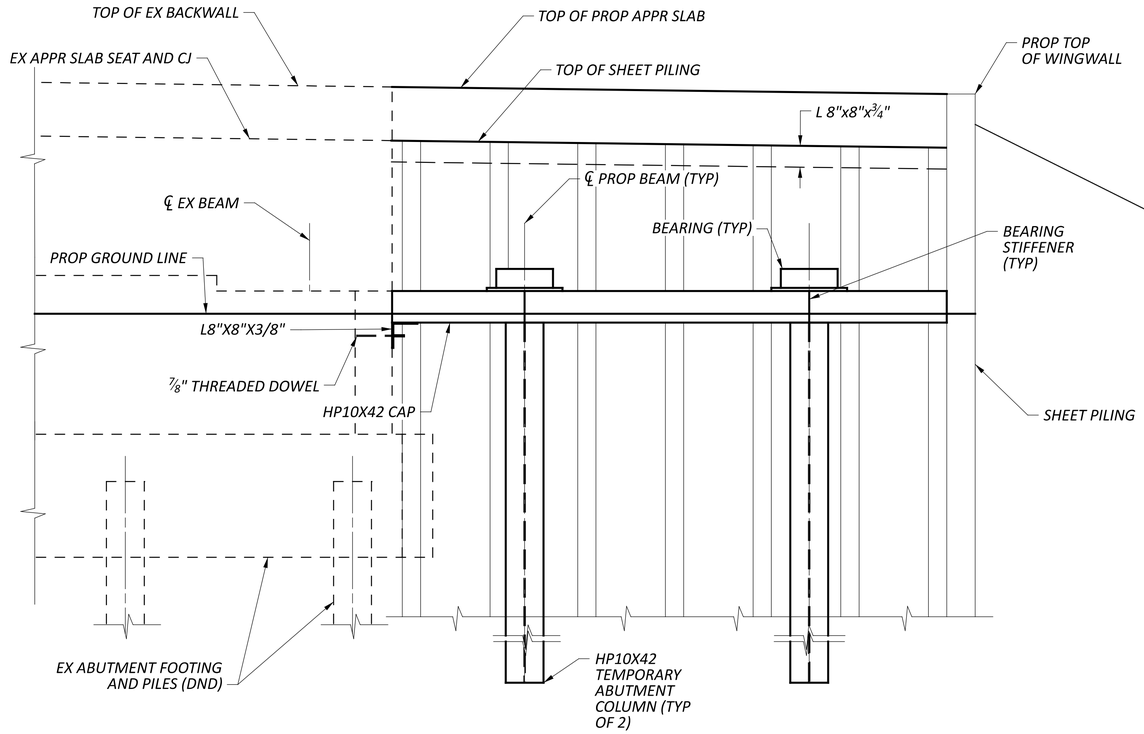
SFN	3109365
DESIGN AGENCY	E M H&T
DESIGNER	JGM
CHECKER	TDA
REVIEWER	CAS 06/21/24
PROJECT ID	114161
SUBSET	5
TOTAL	9
SHEET	P.428
TOTAL	463

HAM-75-1.95

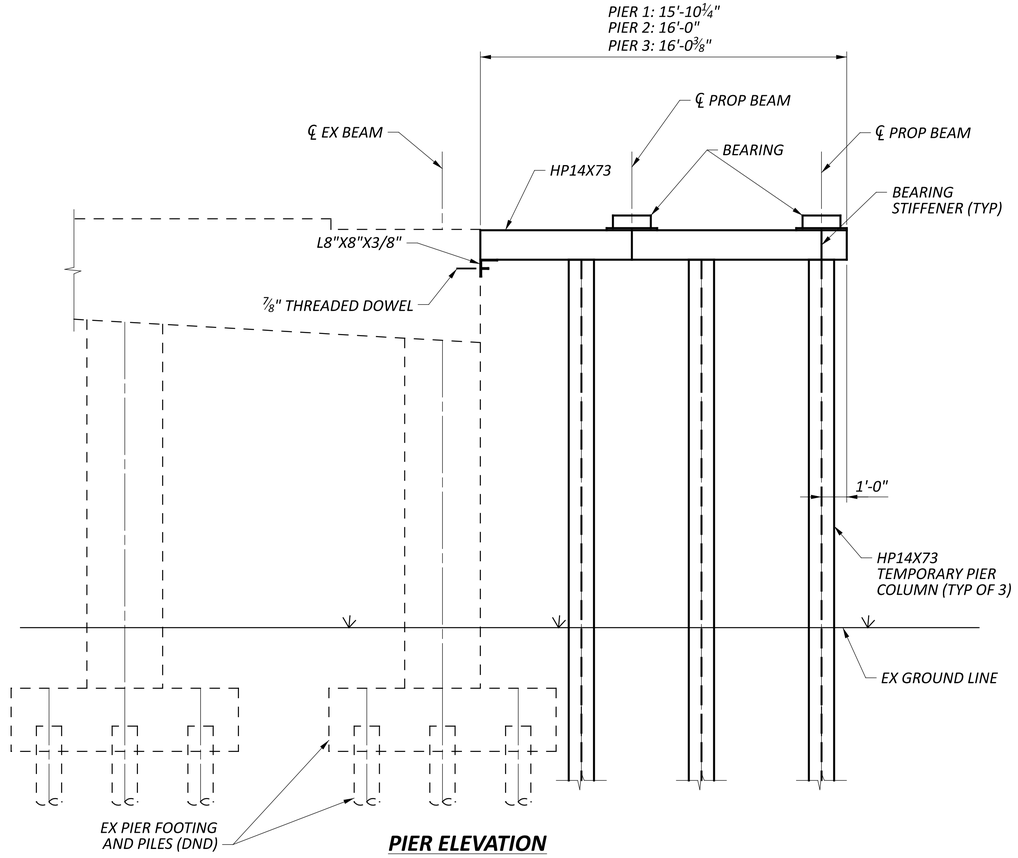
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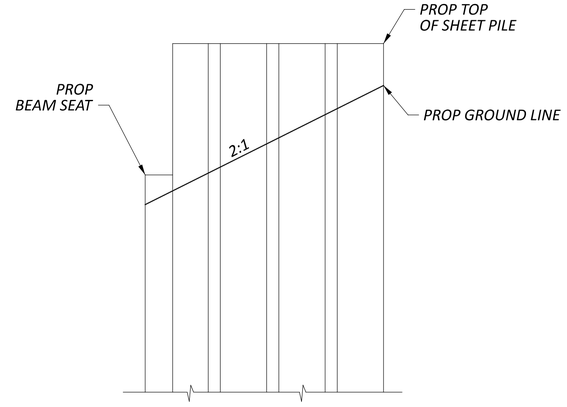
ABUTMENT PLAN



ABUTMENT ELEVATION



PIER ELEVATION



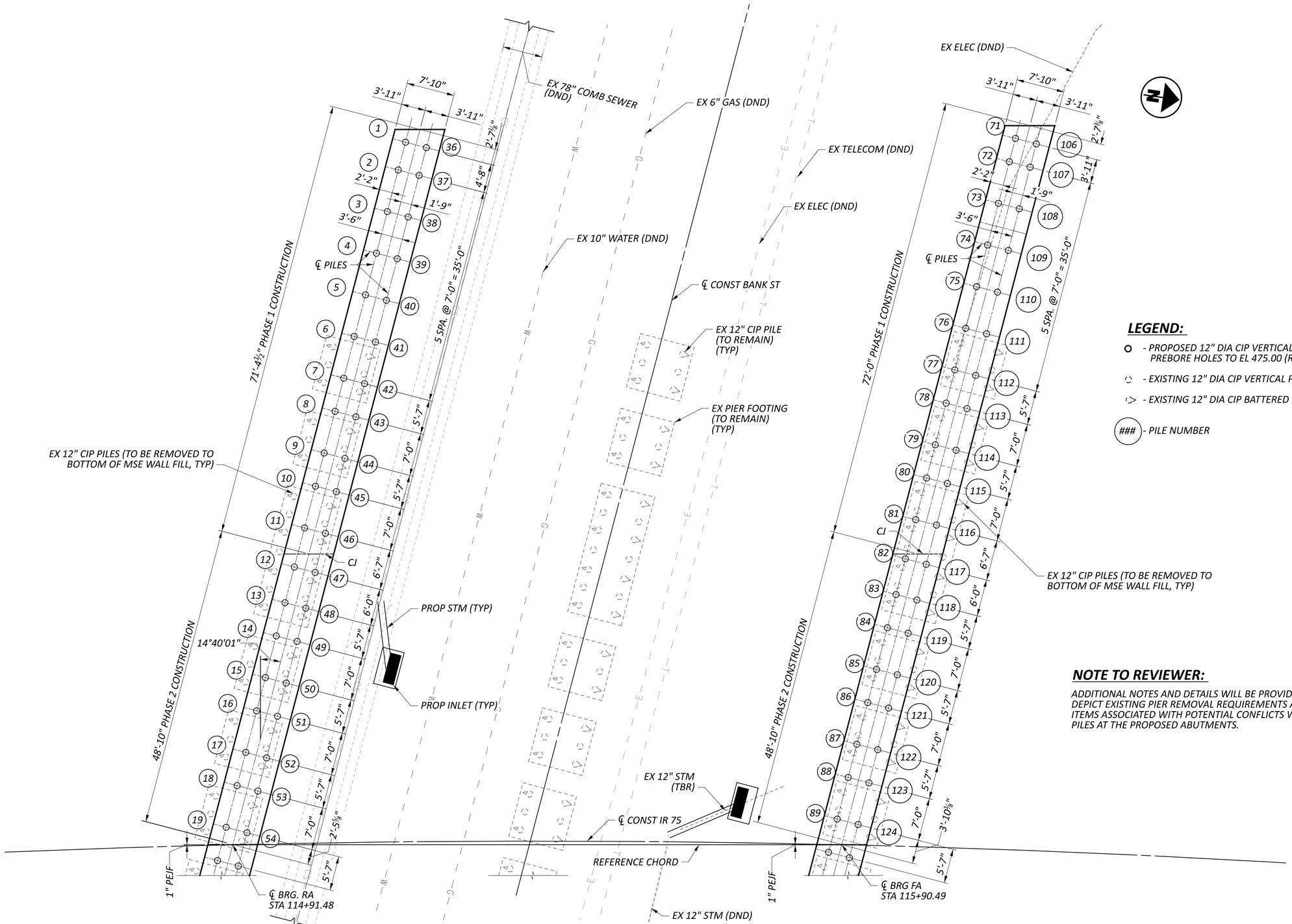
WINGWALL ELEVATION

TEMPORARY BRIDGE DETAILS
BRIDGE NO. HAM-00075-02.172
IR-75 OVER BANK STREET

SFN	3109365
DESIGN AGENCY	EMH&T
DESIGNER	JGM
CHECKER	TDA
REVIEWER	CAS 06/21/24
PROJECT ID	114161
SUBSET	6
TOTAL	9
SHEET	P.429
TOTAL	463

HAM-75-1.95

MODEL: General Plan PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 1:44:59 PM USER: aibrahimkhail
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FOUNDATION PLAN
(LEFT BRIDGE)

LEGEND:

- o - PROPOSED 12" DIA CIP VERTICAL PILE PREBORE HOLES TO EL 475.00 (REAR ABUTMENT ONLY)
- ◌ - EXISTING 12" DIA CIP VERTICAL PILE
- ◌> - EXISTING 12" DIA CIP BATTERED PILE
- ### - PILE NUMBER

NOTE TO REVIEWER:

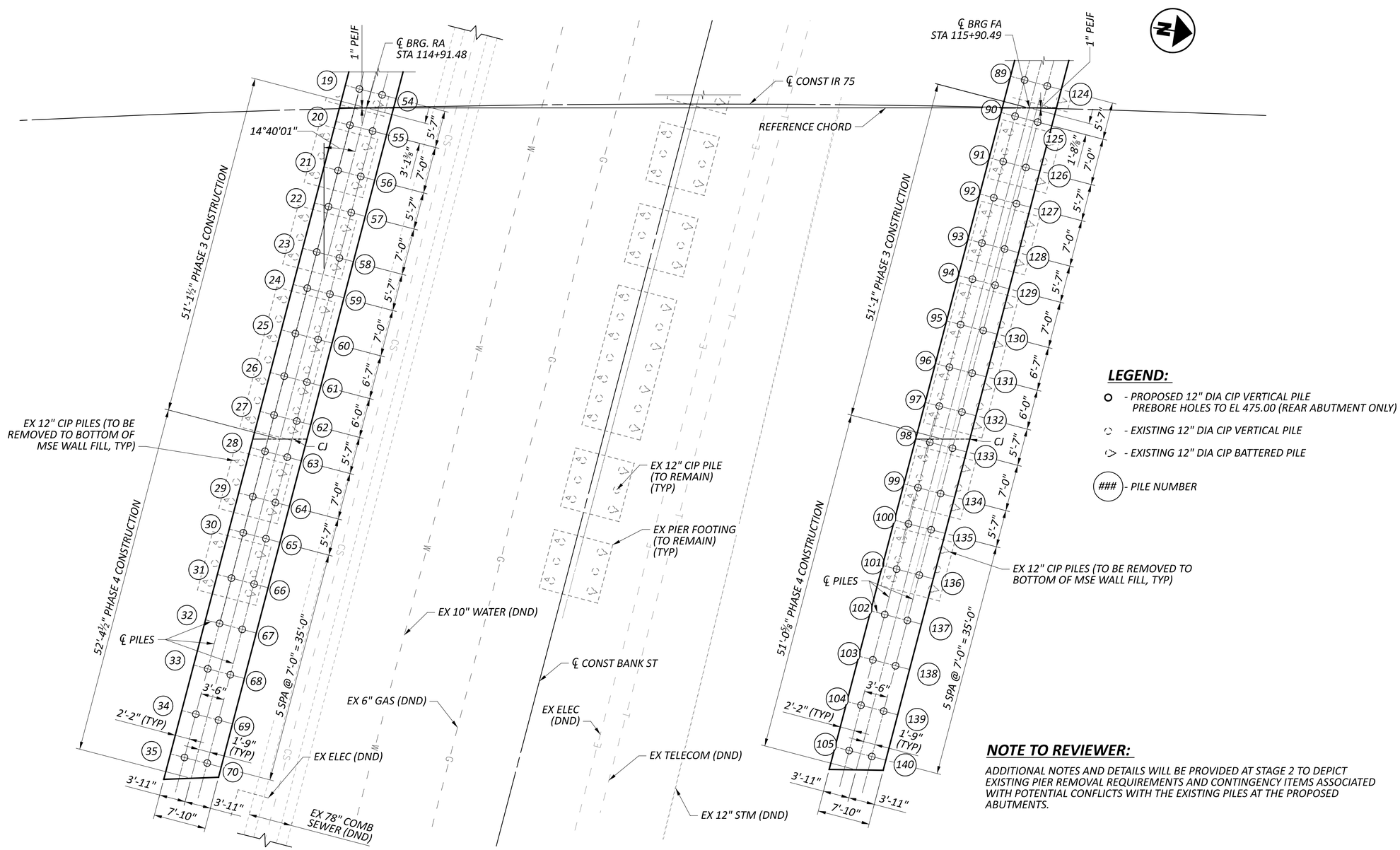
ADDITIONAL NOTES AND DETAILS WILL BE PROVIDED AT STAGE 2 TO DEPICT EXISTING PIER REMOVAL REQUIREMENTS AND CONTINGENCY ITEMS ASSOCIATED WITH POTENTIAL CONFLICTS WITH THE EXISTING PILES AT THE PROPOSED ABUTMENTS.

FOUNDATION PLAN (LEFT BRIDGE)
BRIDGE NO. HAM-00075-02.172
IR-75 OVER BANK STREET

SFN	3109365
DESIGN AGENCY	EM&T
DESIGNER	JGM
CHECKER	TDA
REVIEWER	CAS 06/21/24
PROJECT ID	114161
SUBSET	7
TOTAL	9
SHEET	P.430
TOTAL	463

HAM-75-1.95

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 1:45:38 PM USER: alibrahimkhail
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LEGEND:

- ○ - *PROPOSED 12" DIA CIP VERTICAL PILE PREBORE HOLES TO EL 475.00 (REAR ABUTMENT ONLY)*
- ◌ - *EXISTING 12" DIA CIP VERTICAL PILE*
- ◇ - *EXISTING 12" DIA CIP BATTERED PILE*
- (###) - *PILE NUMBER*

NOTE TO REVIEWER:

ADDITIONAL NOTES AND DETAILS WILL BE PROVIDED AT STAGE 2 TO DEPICT EXISTING PIER REMOVAL REQUIREMENTS AND CONTINGENCY ITEMS ASSOCIATED WITH POTENTIAL CONFLICTS WITH THE EXISTING PILES AT THE PROPOSED ABUTMENTS.

FOUNDATION PLAN

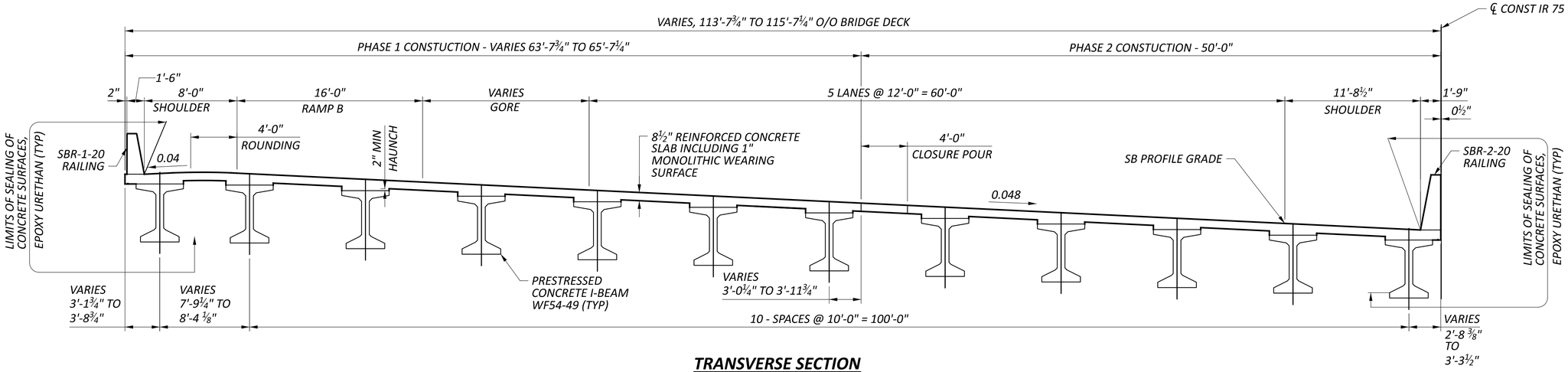
(RIGHT BRIDGE)

FOUNDATION PLAN (RIGHT BRIDGE)
BRIDGE NO. HAM-00075-02.172
IR-75 OVER BANK STREET

SFN	3109365
DESIGN AGENCY	EMH&T
DESIGNER	JGM
CHECKER	TDA
REVIEWER	CAS 06/21/24
PROJECT ID	114161
SUBSET	8
TOTAL	9
SHEET	P.431
TOTAL	463

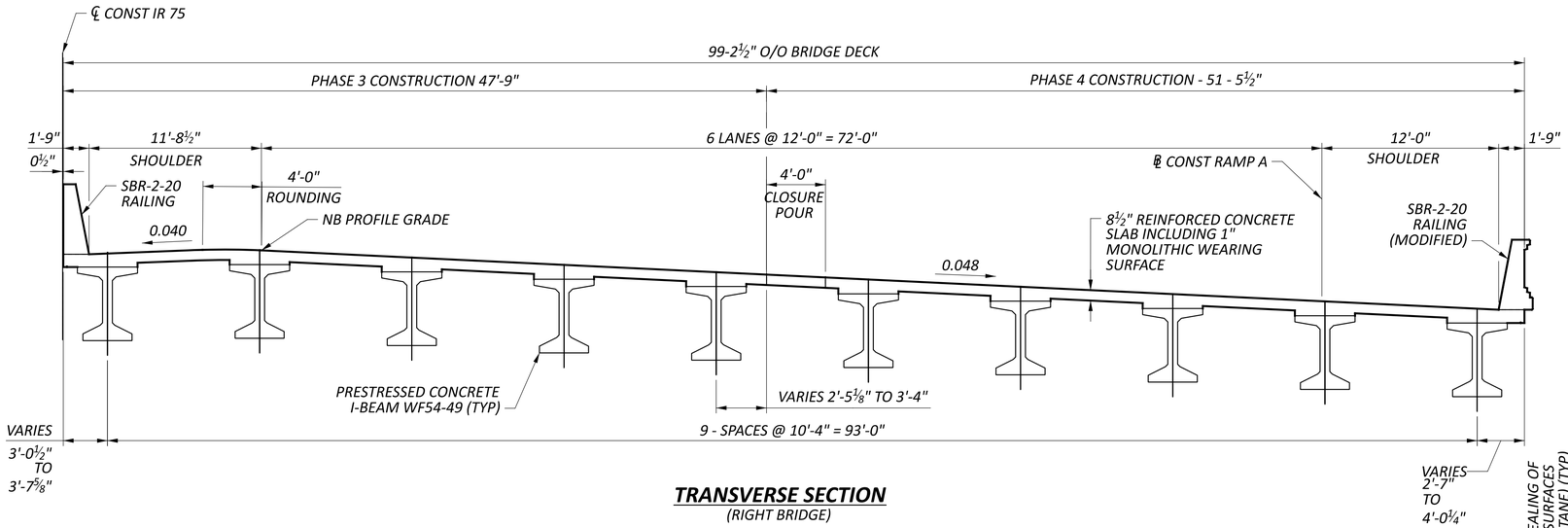
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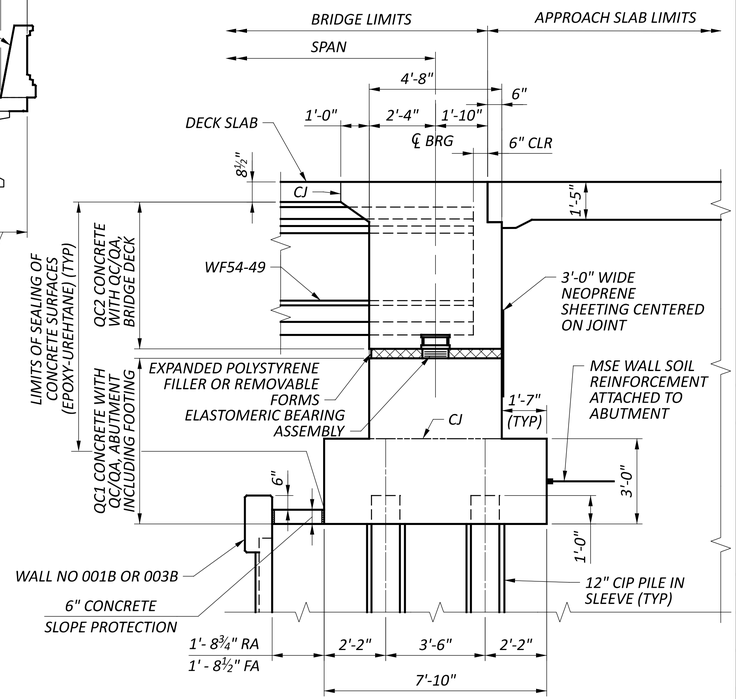
TRANSVERSE SECTION

(LEFT BRIDGE)



TRANSVERSE SECTION

(RIGHT BRIDGE)



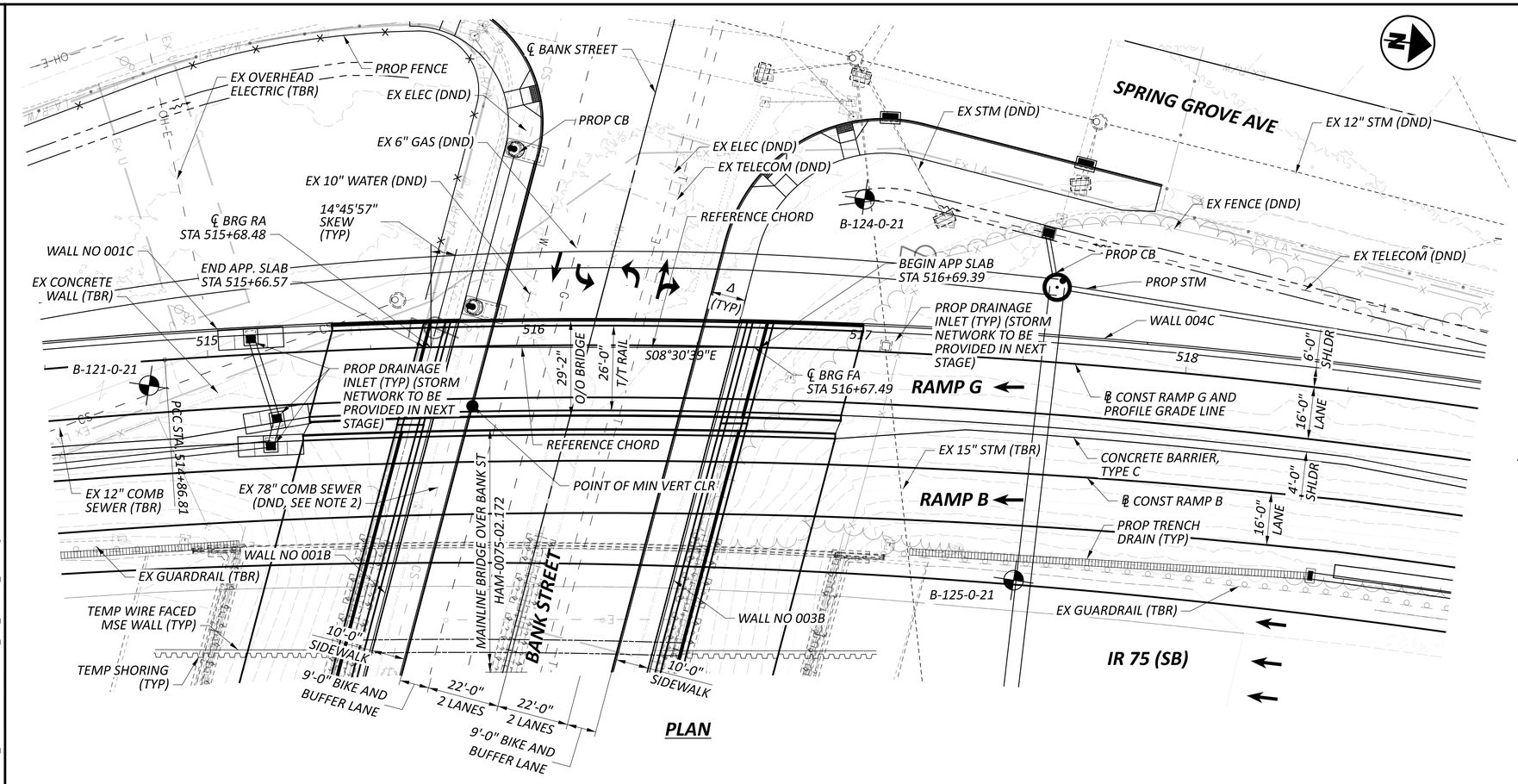
ABUTMENT SECTION

TRANSVERSE SECTION & ABUTMENT SECTION
BRIDGE NO. HAM-00075-02.172
IR-75 OVER BANK STREET

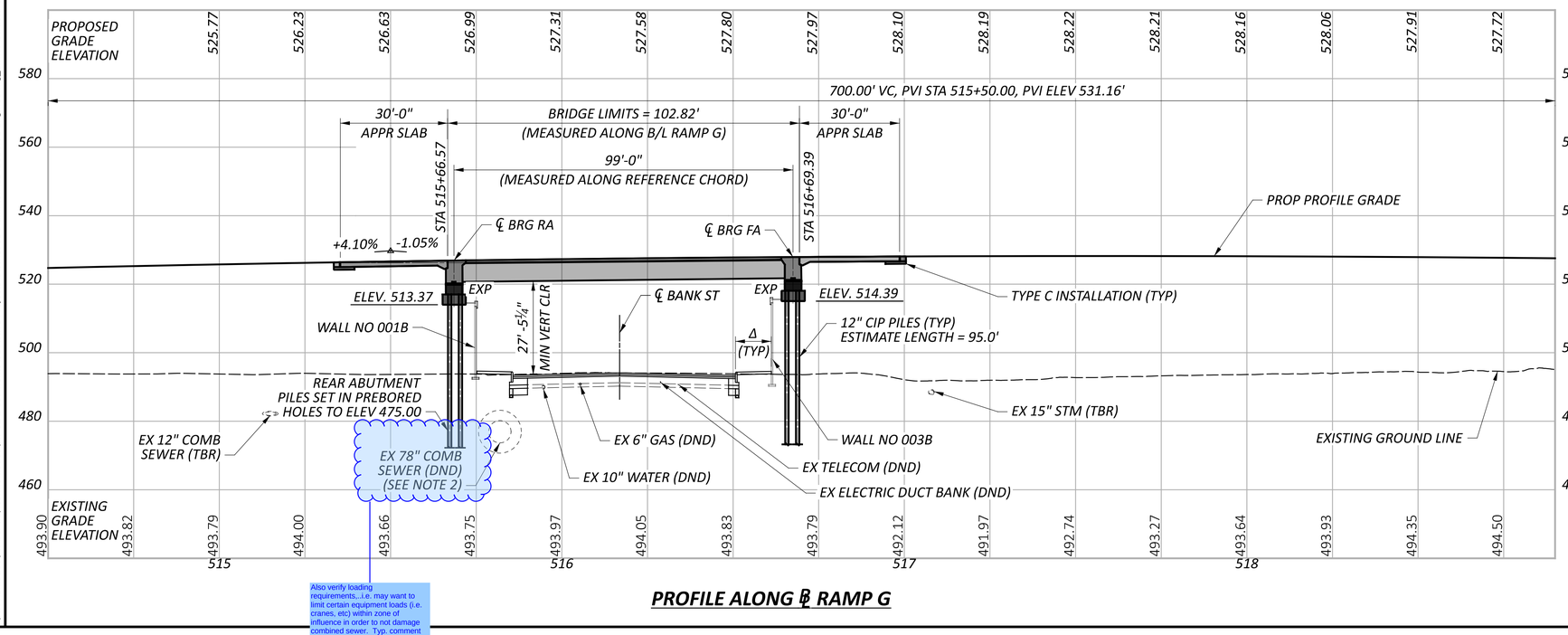
SFN	3109365
DESIGN AGENCY	EMH&T
DESIGNER	JGM
CHECKER	TDA
REVIEWER	CAS 06/21/24
PROJECT ID	114161
SUBSET	9
TOTAL	9
SHEET	P.432
TOTAL	463

HAM-75-1.95

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 1:47:04 PM USER: aibrahimkhail
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PLAN



PROFILE ALONG ℄ RAMP G

Also verify loading requirements,...i.e. may want to limit certain equipment loads (i.e. cranes, etc) within zone of influence in order to not damage combined sewer. Typ. comment at other similar locations.

CONTROL POINT DATA*

CP #1 STA.	105+87.14,	ELEV.	506.50 ,	OFFSET	141.01,	RT
CP #2 STA.	124+31.09,	ELEV.	501.22 ,	OFFSET	178.50,	RT

* STATIONS AND OFFSETS ARE ALONG ℄ CONST IR 75.

FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET P.3 - P.5 /463

NOTES

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. EXACT WALL THICKNESS IS NOT KNOWN. MSD HAS REQUESTED A 3' WALL THICKNESS BE SHOWN ON THIS PIPE. ADDITIONAL INFORMATION WILL BE PROCURED PRIOR TO STAGE 2.

DESIGN TRAFFIC:

2029 ADT =	7,150	2029 ADTT =	858
2049 ADT =	7,350	2049 ADTT =	882

LEGEND

- BORING LOCATION
- ● - 16'-6" REQUIRED MINIMUM VERTICAL CLEARANCE 27'-5¼" ACTUAL MINIMUM VERTICAL CLEARANCE
- Δ - 10'-0" REQUIRED HORIZONTAL CLEARANCE 10'-8" ACTUAL HORIZONTAL CLEARANCE

RAMP G
CURVE DATA
P.I. = STA. 517+86.50
Δ = 17°50'09" RT
Dc = 03°00'00"
R = 1,909.86'
T = 299.69'
L = 594.53'
E = 23.37'

PROPOSED STRUCTURE

TYPE: SEMI-INTEGRAL SINGLE-SPAN PRESTRESSED GIRDER WITH COMPOSITE REINFORCED CONCRETE DECK, SUPPORTED ON SEMI-INTEGRAL ABUTMENTS BEHIND MSE WALLS

SPANS: 99'-0" C/C BRGS (MEASURED ALONG REFERENCE CHORD)

ROADWAY: VARIES (SEE PLAN)

LOADING: VEHICULAR LIVE LOAD: HL-93
FUTURE WEARING SURFACE: 0.06 KIPS/FT

SKEW: 14°45'57" LF (MEASURED PERPENDICULAR TO REFERENCE CHORD)

WEARING SURFACE: 1" MONOLITHIC CONCRETE

APPROACH SLABS: 30'-0" LONG (AS-1-15, AS-2-15)

ALIGNMENT: 2°30'00" CURVE

SUPERELEVATION: 0.045 FT/FT

COORDINATES: LATITUDE 39° 7' 10.93" N
LONGITUDE 84° 32' 09.34" W

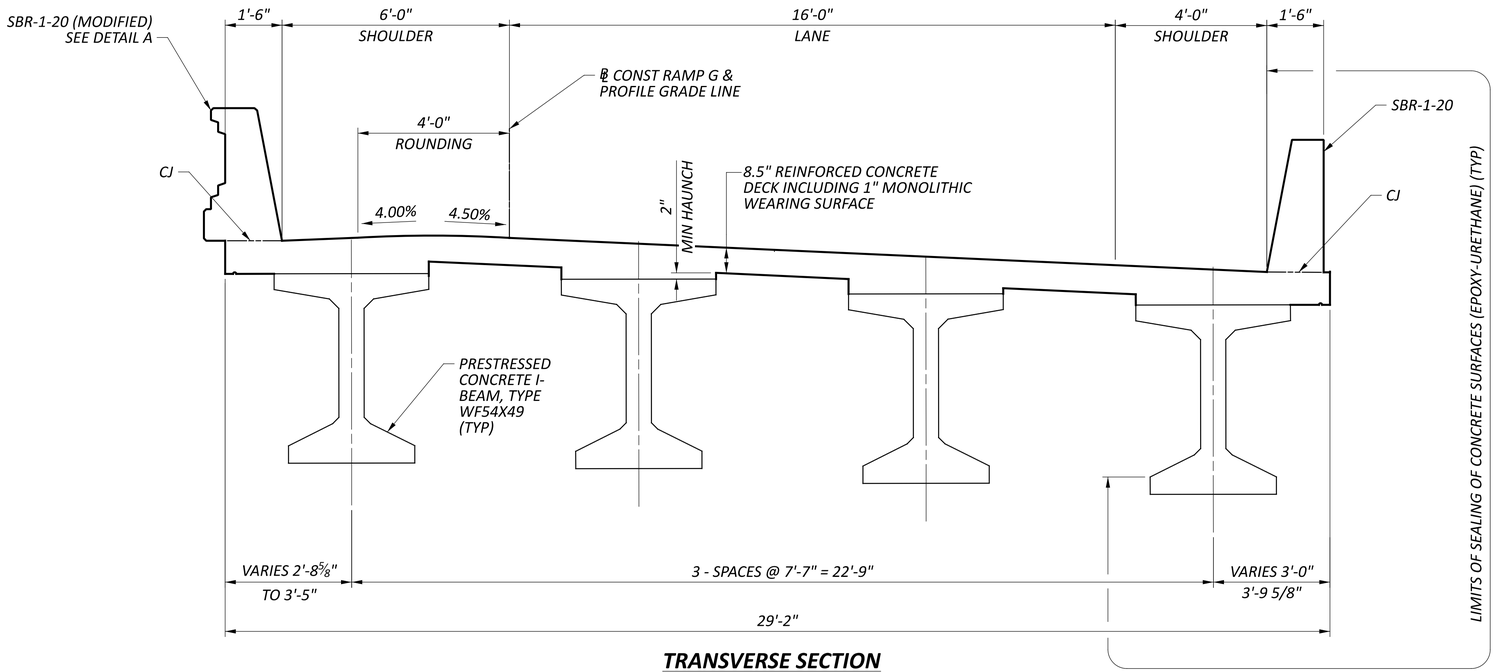
DECK AREA: 2999 SF

SITE PLAN
BRIDGE NO. HAM-00075-02.179
RAMP G OVER BANK STREET

SFN	3109366
DESIGN AGENCY	EMH&T
DESIGNER	AI
CHECKER	JGM
REVIEWER	CAS 06/21/24
PROJECT ID	114161
SUBSET	1
TOTAL	2
SHEET	P.433
TOTAL	463

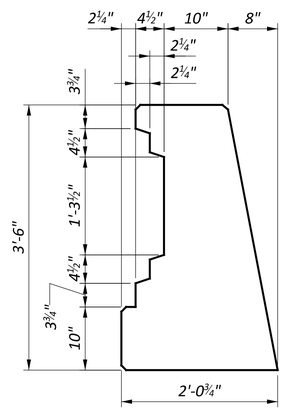
HAM-75-1.95

MODEL: Plan_Ramp G over Bank St PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 1:47:56 PM USER: albrahimkhail
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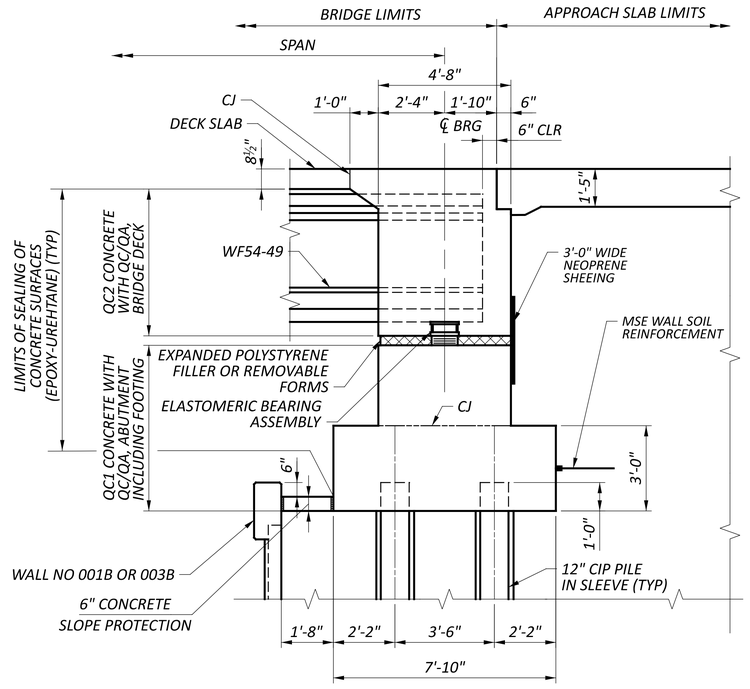


TRANSVERSE SECTION

(RAMP G BRIDGE IS CONSTRUCTED IN PHASE 1 CONSTRUCTION)



DETAIL A



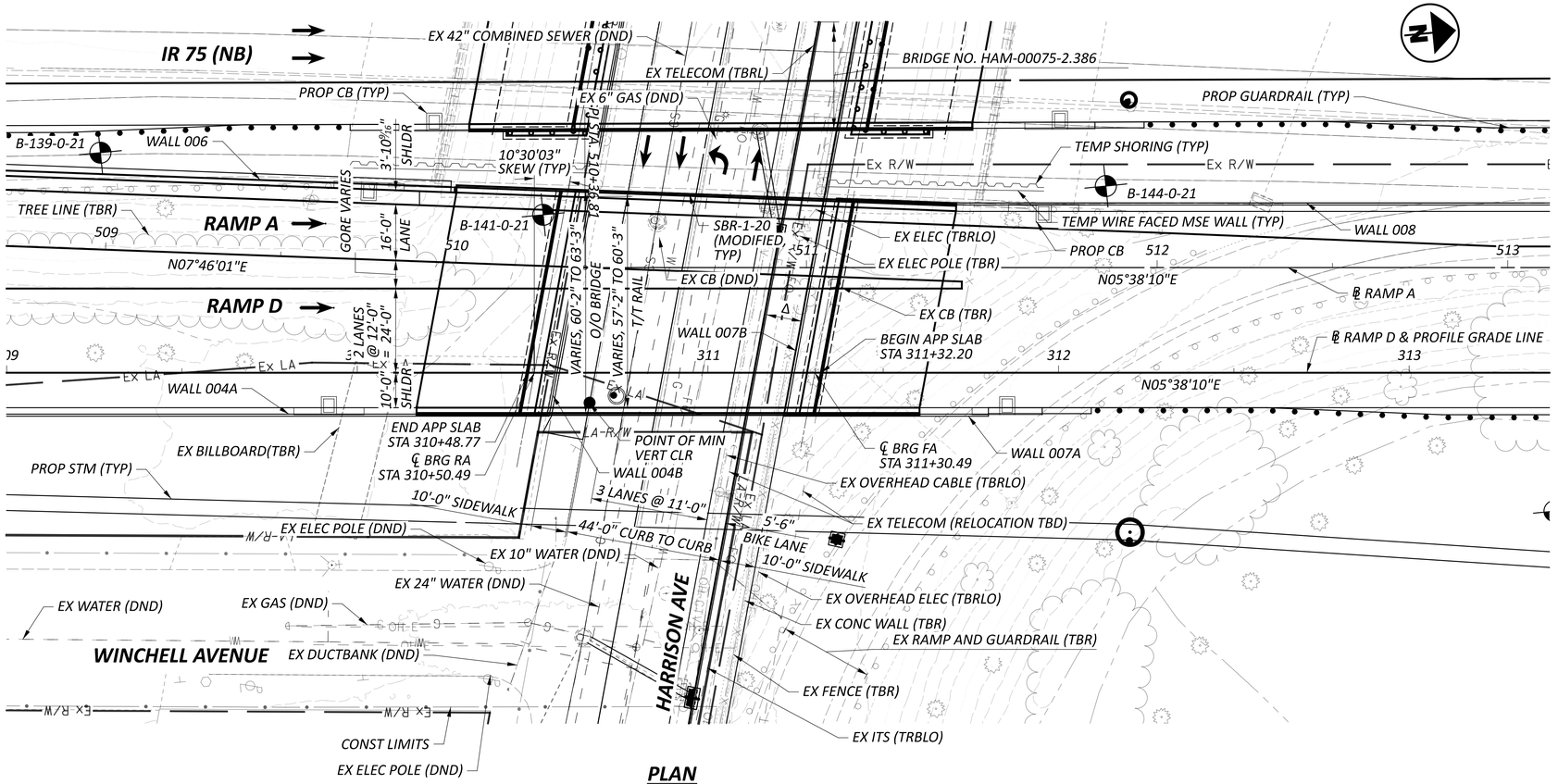
ABUTMENT SECTION

TRANSVERSE SECTION & ABUTMENT SECTION
BRIDGE NO. HAM-00075-02.179
RAMP G OVER BANK STREET

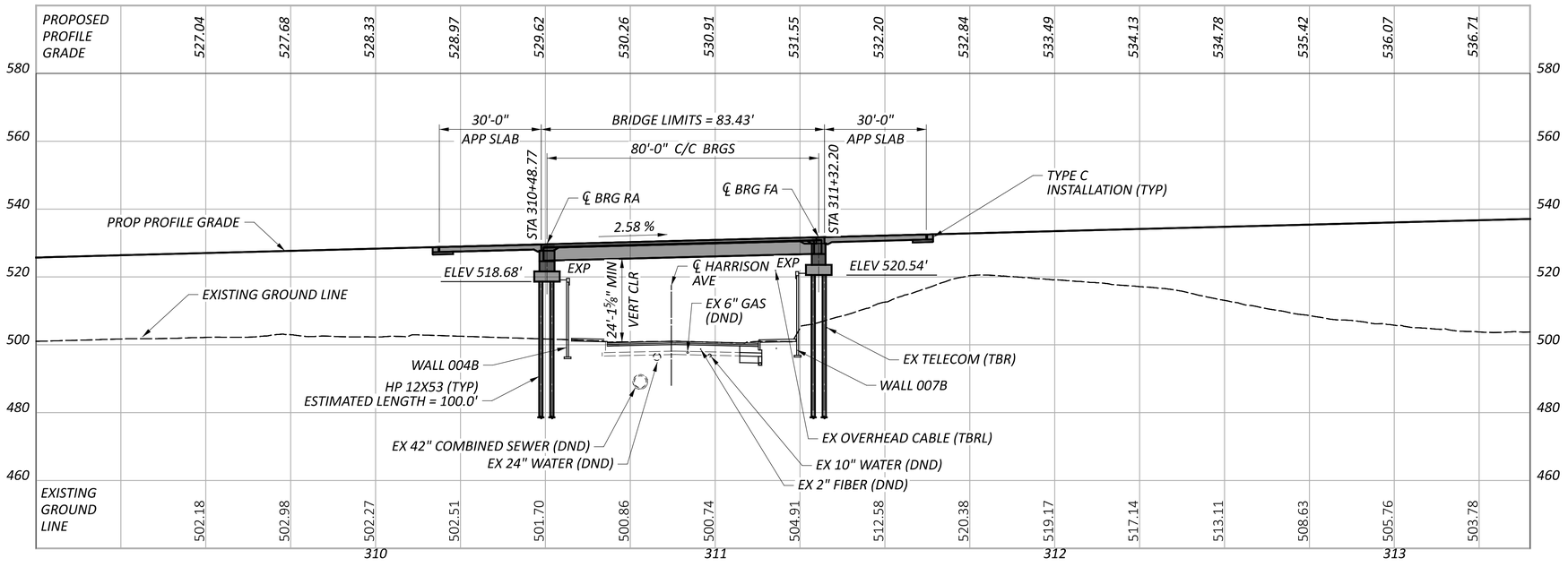
SFN	3109366
DESIGN AGENCY	EMH&T
DESIGNER	AI
CHECKER	JGM
REVIEWER	CAS 06/21/24
PROJECT ID	114161
SUBSET	2
TOTAL	2
SHEET	P.434
TOTAL	463

HAM-75-1.95

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 1:48:39 PM USER: aibrahimkhail
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PLAN



PROFILE ALONG ℄ RAMP D

CONTROL POINT DATA*

CP #1 STA.	124+31.09,	ELEV.	501.22 ,	OFFSET	178.50,	RT
CP #2 STA.	135+03.11,	ELEV.	508.78 ,	OFFSET	169.34,	RT

* STATIONS AND OFFSET ARE ALONG ℄ CONST IR 75.

FOR ADDITIONAL CONTROL POINT INFORMATION. SEE ROADWAY PLAN SHEET P.3 - P.5 / 463

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:

RAMP A:

2029 ADT =	18,900	2029 ADTT =	3,024
2049 ADT =	19,450	2049 ADTT =	3,112

RAMP D:

2029 ADT =	16,300	2029 ADTT =	978
2049 ADT =	16,600	2049 ADTT =	996

LEGEND

- ⌖ - BORING LOCATION
- ● - 16'-6" REQUIRED MINIMUM VERTICAL CLEARANCE
  24'- 1⅝" ACTUAL MINIMUM VERTICAL CLEARANCE
- Δ - 10'-0" REQUIRED HORIZONTAL CLEARANCE
  10'-8" ACTUAL HORIZONTAL CLEARANCE

PROPOSED STRUCTURE

TYPE: SEMI-INTEGRAL SINGLE-SPAN PRESTRESSED I-BEAM WITH COMPOSITE REINFORCED CONCRETE DECK SUPPORTED ON SEMI-INTEGRAL ABUTMENTS BEHIND MSE WALLS

SPANS: 80'-0" C/C BRGS

ROADWAY: VARIES TOE/TOE PARAPET

LOADING: VEHICULAR LIVE LOAD: HL93
FUTURE WEARING SURFACE: 0.06 KIPS/FT

SKEW: 10°30'03" LF (MEASURED PERP TO ℄ RAMP D)

WEARING SURFACE: 1" MONOLITHIC CONCRETE

APPROACH SLABS: 30'-0" LONG (AS-1-15, AS-2-15)

ALIGNMENT: TANGENT

CROWN: 0.016 FT/FT

COORDINATES: LATITUDE N 39°07'21.49"
LONGITUDE W 84°32'05.46"

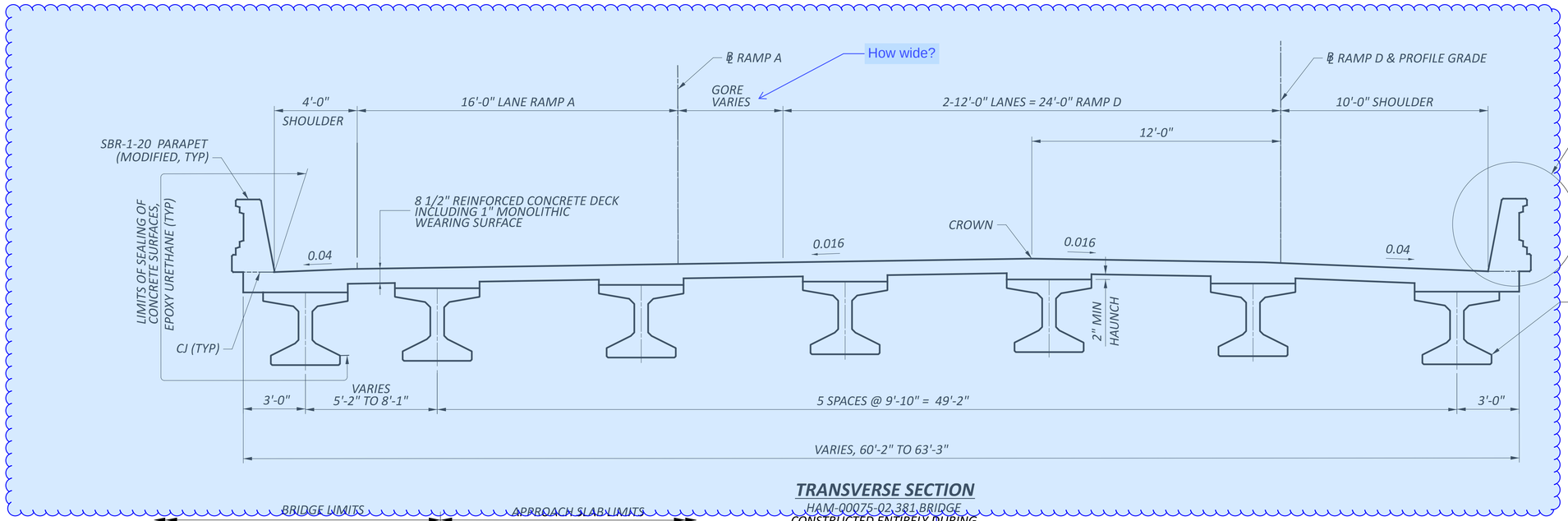
DECK AREA: 5010 SF

SITE PLAN
BRIDGE NO. HAM-00075-02.381
RAMP A&D OVER HARRISON ROAD

SFN	3109401
DESIGN AGENCY	EMH&T
DESIGNER	AI
CHECKER	JGM
REVIEWER	CAS 06/21/24
PROJECT ID	114161
SUBSET	1
TOTAL	2
SHEET	P.435
TOTAL	463

HAM-75-1.95

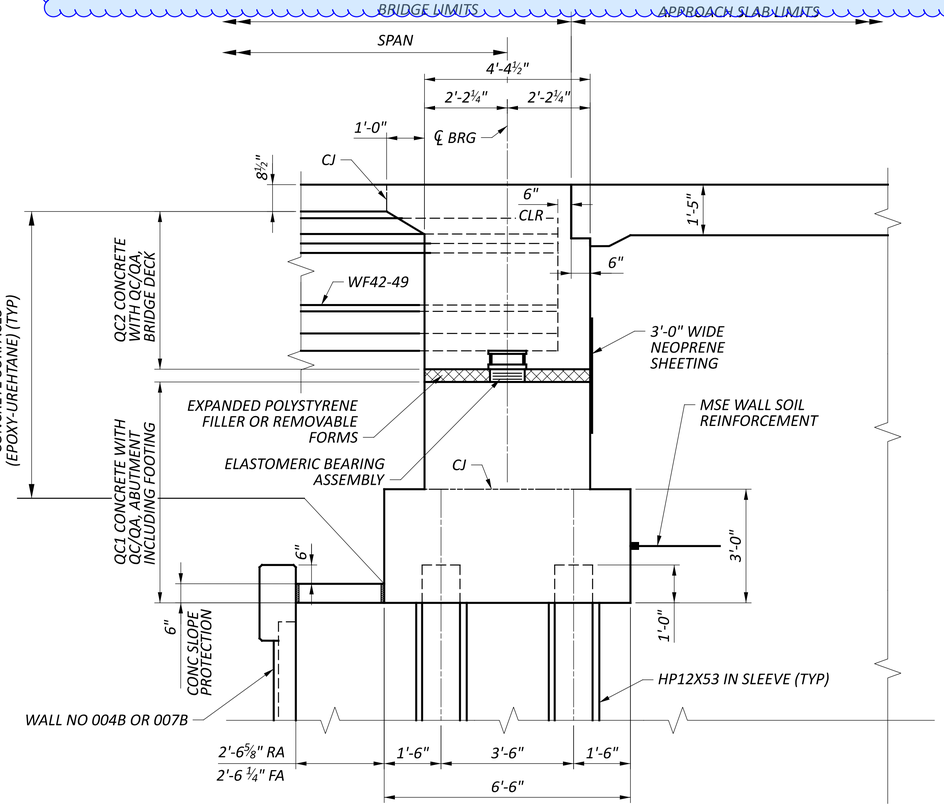
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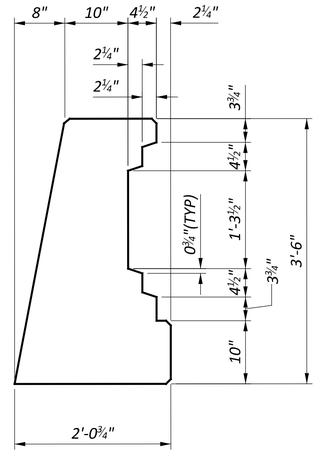
TRANSVERSE SECTION

HAM-00075-02.381 BRIDGE
CONSTRUCTED ENTIRELY DURING
PRE-PHASE CONSTRUCTION

This Transverse Section is not buildable in one deck pour with a Bidwell with a variable width deck in between two grade breaks.



ABUTMENT SECTION



DETAIL - A

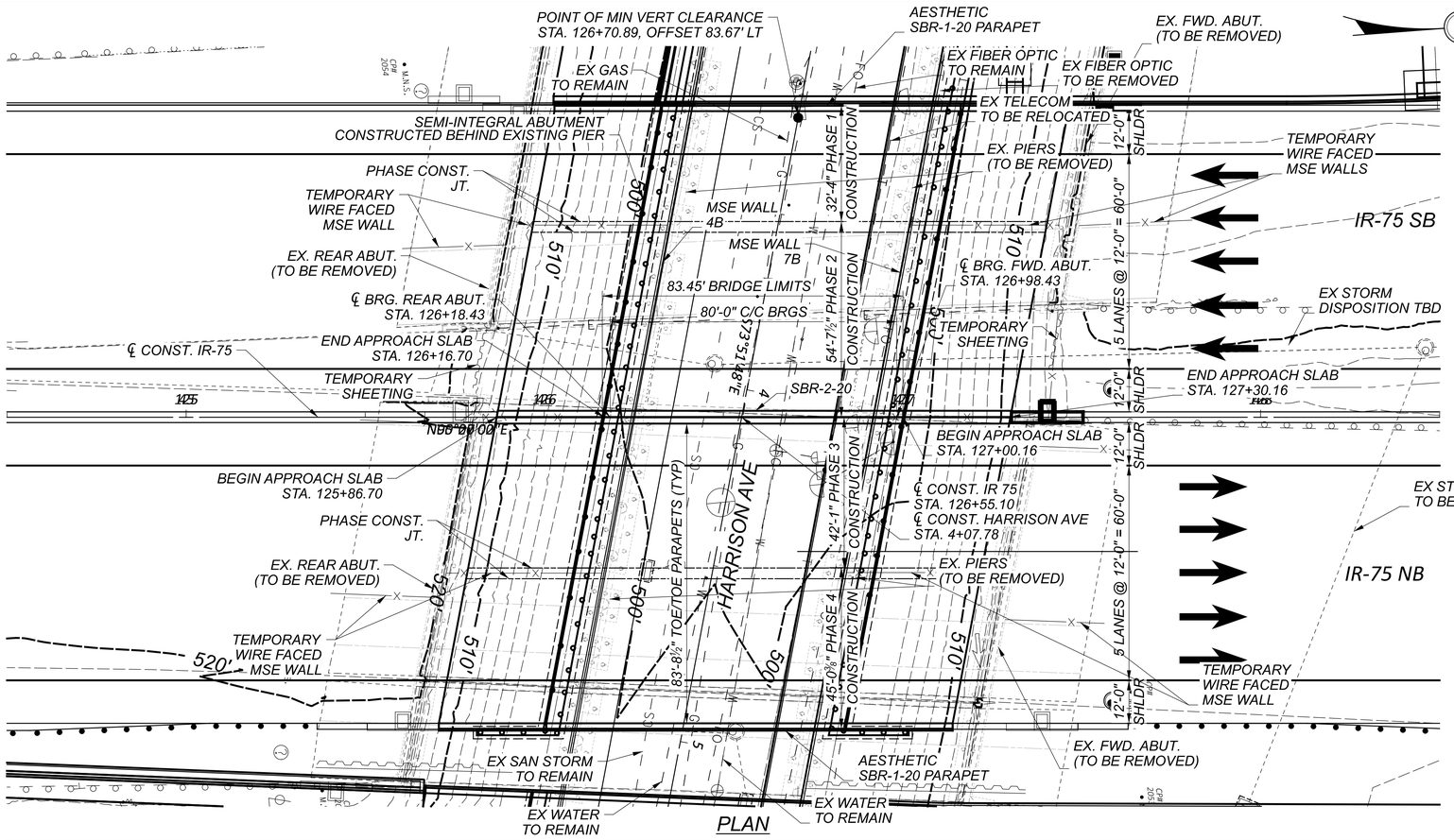
TRANSVERSE SECTION & ABUTMENT SECTION
BRIDGE NO. HAM-00075-02.381
RAMP A&D OVER HARRISON ROAD

Avenue

HAM-75-1.95

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SFN	3109401
DESIGN AGENCY	EMH&T
DESIGNER	AI
CHECKER	JGM
REVIEWER	CAS 06/21/24
PROJECT ID	114161
SUBSET	2
TOTAL	2
SHEET	P.436
TOTAL	463



CONTROL POINT DATA*

CP #1 STA.	124+31.09,	ELEV.	501.22,	OFFSET	178.50,	RT
CP #2 STA.	135+03.11,	ELEV.	508.78,	OFFSET	169.34,	RT

* STATIONS AND OFFSETS ARE ALONG ℄ CONST IR 75.

FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET P.3 - P.5 /463

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:

2029 ADT = 164,850 2030 ADTT = 26,376
2049 ADT = 189,800 2050 ADTT = 30,368
DIRECTIONAL DISTRIBUTION = 52%

LEGEND

- BORING LOCATION
- 16'-6" REQUIRED MINIMUM VERTICAL CLEARANCE
  16'-8⅝" ACTUAL MINIMUM VERTICAL CLEARANCE
  83.67' LEFT OFFSET

DRIVEN PILE LENGTH TABLE		
ABUTMENT	LEFT BRIDGE	RIGHT BRIDGE
REAR	55'	75'
FORWARD	55'	75'

EXISTING STRUCTURE

TYPE: CONTINUOUS ROLLED STEEL BEAM WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE

SPANS: 45'-6"±, 65'-0"±, 45'-6"± C/C BRGS. (LEFT)
45'-0"±, 64'-0"±, 45'-0"± C/C BRGS. (RIGHT)

ROADWAY: VARIES, 80'-0"± TO 85'-9"± TOE/TOE PARAPETS (LEFT)
107'-2"± TOE/TOE PARAPETS (RIGHT)

LOADING: CF 2000 (57) (LEFT & RIGHT)

SKEW: 12° 40'45"± LEFT FORWARD (LEFT)
8°28' 09"± LEFT FORWARD (RIGHT)

WEARING SURFACE: 1" MONOLITHIC CONCRETE (LEFT & RIGHT)

APPROACH SLABS: AS-1-54 (25'-0" LONG) (LEFT & RIGHT)

ALIGNMENT: TANGENT (LEFT)
00°31' 15"± CURVE RIGHT (RIGHT)

STRUCTURE FILE NUMBER: 3109399 (LEFT)
3109429 (RIGHT)

DATE BUILT: 1961

DISPOSITION: TO BE REMOVED AS NEEDED

PROPOSED STRUCTURE

TYPE: SINGLE SPAN PRESTRESSED CONCRETE BEAMS (WF42-49) WITH REINFORCED CONCRETE DECK ON SEMI-INTEGRAL ABUTMENTS WITH MSE RETAINING WALL

SPANS: 80'-0" C/C BEARINGS

ROADWAY: 83'-8½" NB & SB TOE/TOE PARAPET

LOADING: HL93 AND 60 PSF FUTURE WEARING SURFACE

SKEW: 10° 41' 11" LEFT FORWARD

WEARING SURFACE: 1" MONOLITHIC CONCRETE

APPROACH SLABS: 30'-0" LONG (AS-1-15, AS-2-15)

ALIGNMENT: TANGENT

CROWN: 0.016 FT/FT

DECK AREA: 14,520 SF

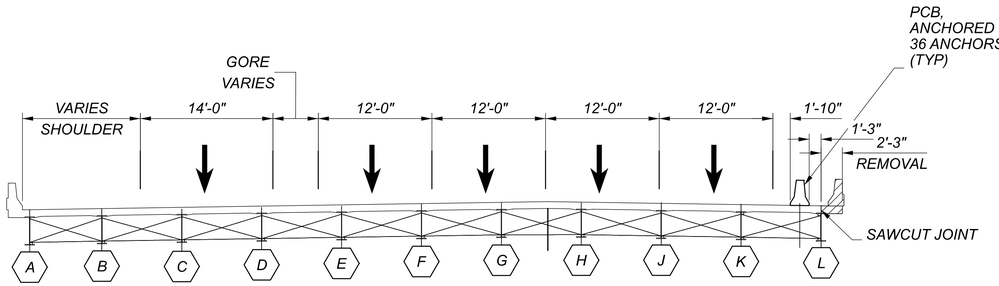
COORDINATES: LATITUDE N 39° 07' 21.91"
LONGITUDE W 84° 32' 07.41"

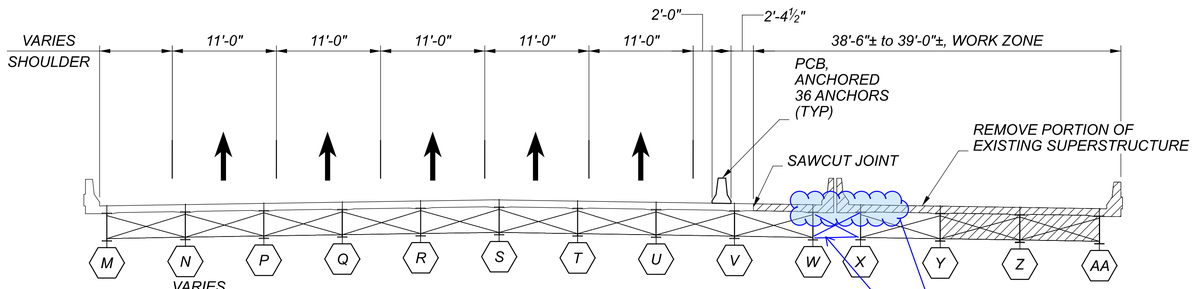
SITE PLAN
BRIDGE NO. HAM-75-2.386
IR-75 OVER HARRISON AVENUE

SFN 3109400
DESIGN AGENCY: GANNETT FLEMING, 2500 Corporate Exchange Dr. Suite 200, Columbus, OH 43231
DESIGNER SAT | CHECKER VDT
REVIEWER EFD 06/21/24
PROJECT ID 114161
SUBSET 1 | TOTAL 9
SHEET P.437 | TOTAL 463

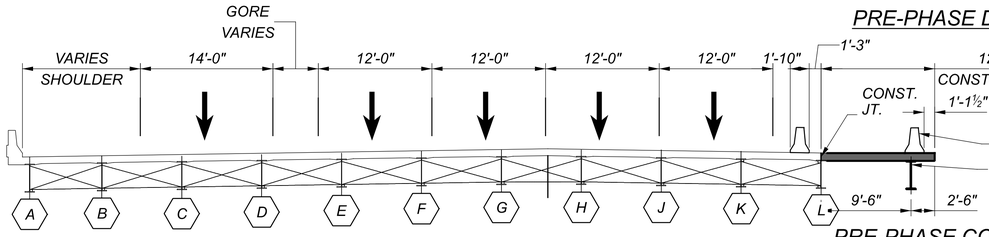
HAM-75-1.95

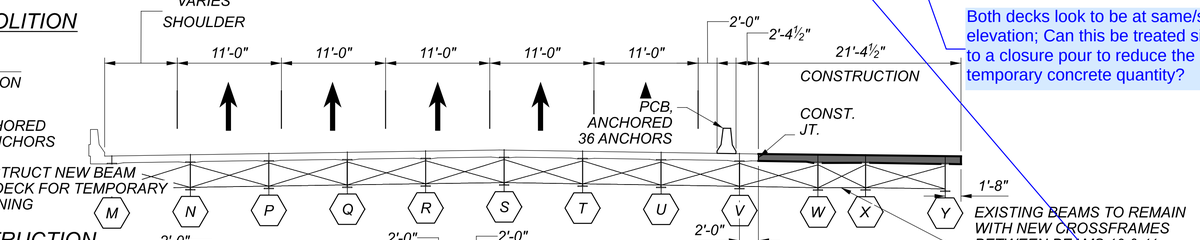
MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:40:27 PM USER: stony
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PLOT DRIVER: OHDOT_PDF.pltcfg PENTABLE: 114161_BW.tbl
SUBMITTAL: SUB_STG PENTABLE SUBSET: 1





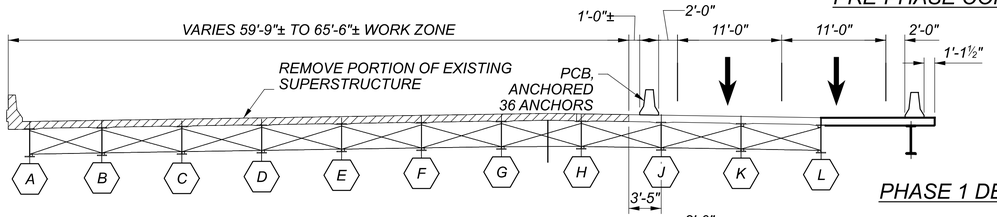
PRE-PHASE DEMOLITION

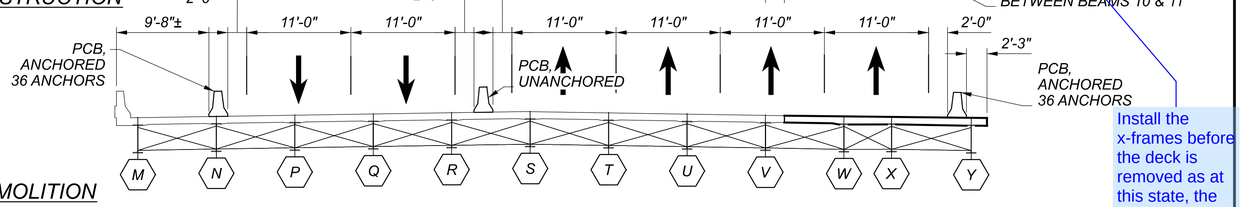




Both decks look to be at same/similar elevation; Can this be treated similar to a closure pour to reduce the temporary concrete quantity?

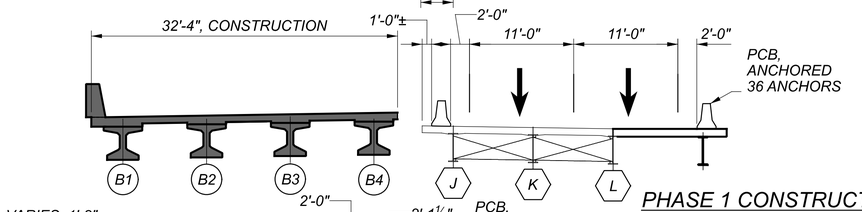
PRE-PHASE CONSTRUCTION

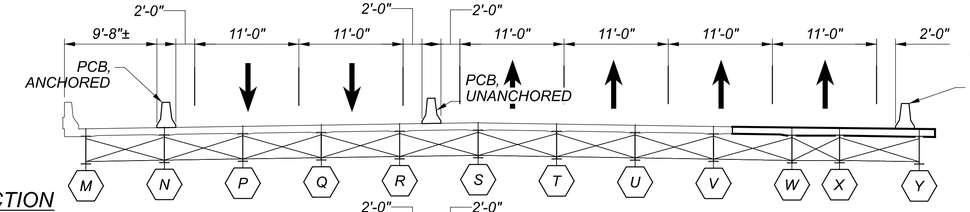




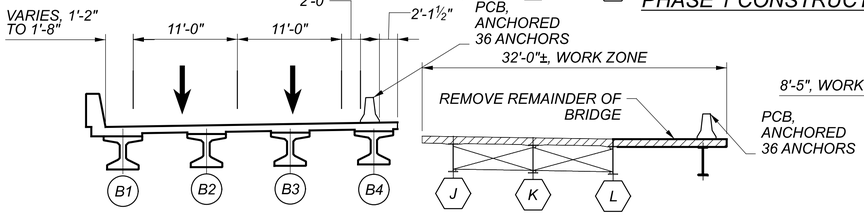
PHASE 1 DEMOLITION

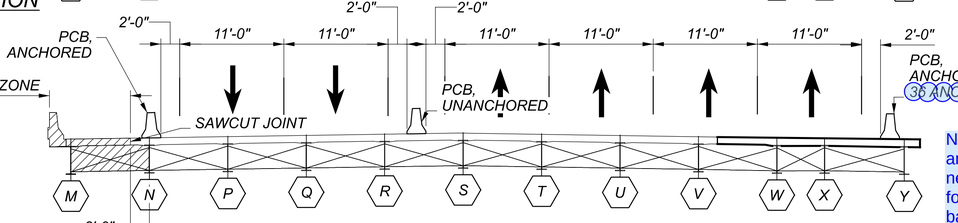
PHASE 1 CONSTRUCTION





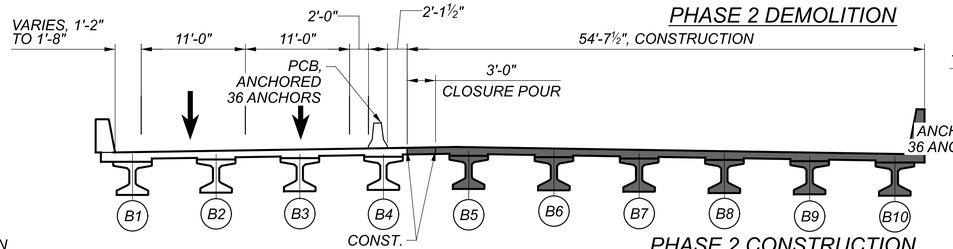
Install the x-frames before the deck is removed as at this state, the beams are still loaded and have not rebounded.

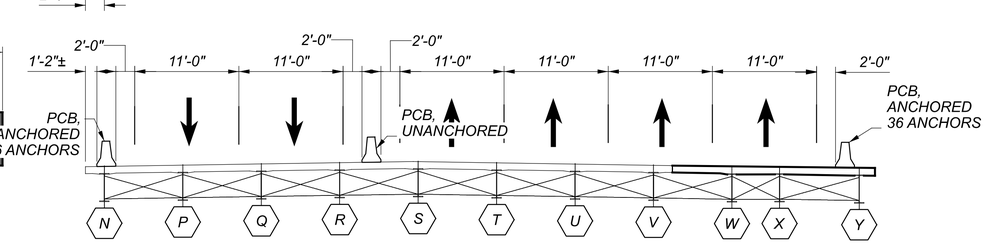




Number of anchors do not need specified for MASH barrier.

PHASE 2 DEMOLITION





PHASE 2 CONSTRUCTION

LEGEND

- LIMITS OF REMOVAL
- LIMITS OF PROPOSED CONSTRUCTION

SEQUENCE OF CONSTRUCTION

PREPHASE REMOVAL:

1. INSTALL PCB AND SHIFT TRAFFIC AS SHOWN.
2. REMOVE 1'-7" OF EXISTING PARAPET AND BRIDGE DECK ON LEFT BRIDGE.
3. REMOVAL OF EXISTING DECK VARIES FROM 38'-6" TO 39'-0" ON RIGHT BRIDGE. REMOVE BEAMS Z AND AA ALONG WITH THEIR CROSSFRAMES.

PREPHASE CONSTRUCTION:

4. CONSTRUCT 11'-4" OF TEMPORARY LEFT BRIDGE, INCLUDING PILES, ABUTMENT, PIERS, BEAMS, CONCRETE DECK, AND ANCHORED PCB.
5. CONSTRUCT 21'-4½" OF TEMPORARY RIGHT DECK SUPERSTRUCTURE ON EXISTING BEAMS W THROUGH Y INCLUDING CROSSFRAMES BETWEEN BEAMS W AND X.

PHASE 1:

4. INSTALL PCB AND SHIFT TRAFFIC AS SHOWN.
5. REMOVE 59'-9" TO 65'-6" OF THE EXISTING LEFT BRIDGE.
6. CONSTRUCT 32'-4" OF PROPOSED LEFT BRIDGE, ALONG WITH PROPOSED ABUTMENT, PILES, AND MSE WALLS.

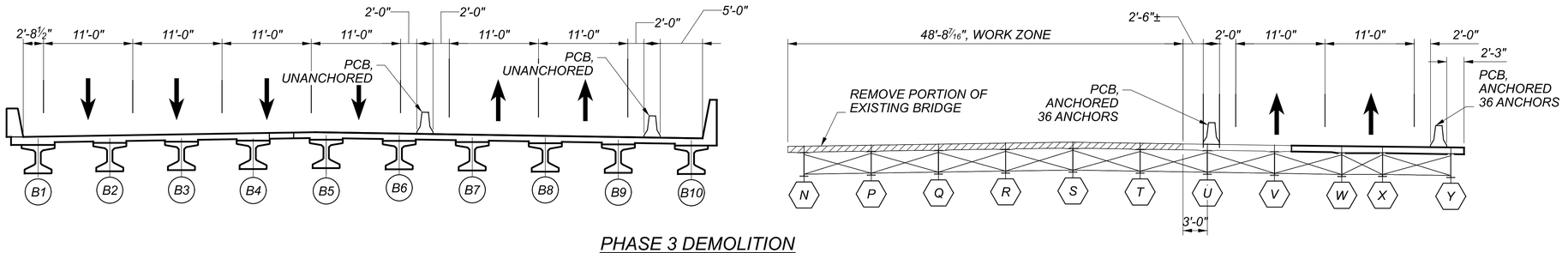
PHASE 2:

4. INSTALL PCB AND SHIFT TRAFFIC AS SHOWN.
5. REMOVE REMAINDER OF EXISTING LEFT BRIDGE ALONG WITH 8'-5" OF EXISTING RIGHT BRIDGE.
6. CONSTRUCT REMAINDER OF PROPOSED LEFT BRIDGE ALONG WITH PROPOSED ABUTMENT, PILES, AND MSE WALLS.

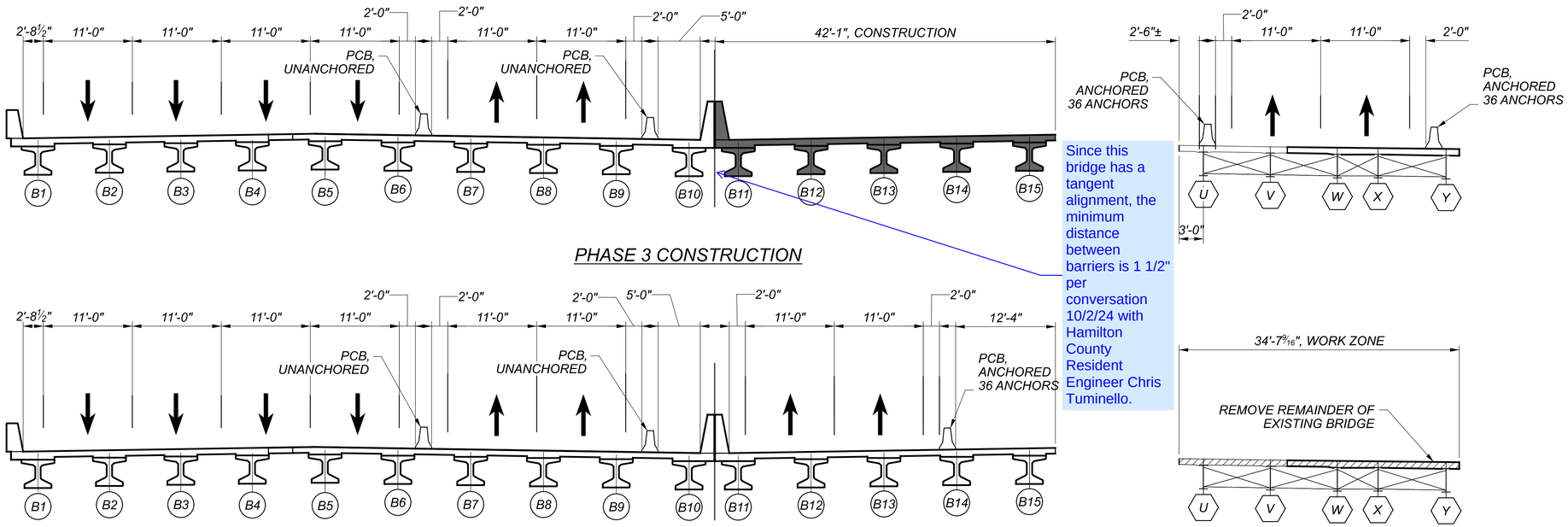
PHASED CONSTRUCTION SHEETS (1 OF 2)
BRIDGE NO. HAM-75-2.386
IR-75 OVER HARRISON AVENUE

SFN	3109400
DESIGN AGENCY	GANNETT FLEMING, 2500 Corporate Exchange Dr. Suite 200, Columbus, OH 43231
DESIGNER	SAT
CHECKER	MTO
REVIEWER	EFD 06/21/24
PROJECT ID	114161
SUBSET	2
TOTAL	9
SHEET	P.438
TOTAL	463

HAM-75-1.95
PENTABLE SUBSET: 1
SUBMITTAL: SUB_STG
PLOT DRIVER: OHDOT_PDF.pltcfg
MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:41:01 PM USER: stony
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114161402-Engineering_GannettFleming\Structures\SFN_3109400\Sheets\114161_SFN3109400_SC001
PENTABLE: 114161_BW.tbl



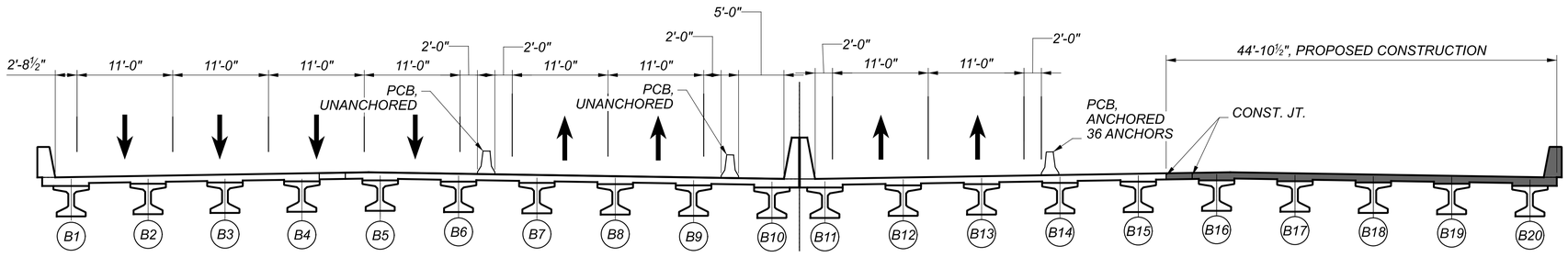
PHASE 3 DEMOLITION



Since this bridge has a tangent alignment, the minimum distance between barriers is 1 1/2" per conversation 10/2/24 with Hamilton County Resident Engineer Chris Tuminello.

PHASE 3 CONSTRUCTION

PHASE 4 DEMOLITION



PHASE 4 CONSTRUCTION

SEQUENCE OF CONSTRUCTION

PHASE 3:

4. *SHIFT PCB AND TRAFFIC AS SHOWN.*
5. *REMOVE 48'-9" OF THE EXISTING RIGHT BRIDGE.*
6. *CONSTRUCT 46'-1½" OF PROPOSED RIGHT BRIDGE, ALONG WITH PROPOSED ABUTMENT, PILES, AND MSE WALLS.*

PHASE 4:

4. *SHIFT PCB AND TRAFFIC AS SHOWN.*
5. *REMOVE REMAINDER OF EXISTING RIGHT BRIDGE.*
6. *CONSTRUCT REMAINDER OF PROPOSED RIGHT BRIDGE ALONG WITH PROPOSED ABUTMENT, PILES, AND MSE WALLS.*

LEGEND

LIMITS OF REMOVAL

LIMITS OF PROPOSED CONSTRUCTION

PHASED CONSTRUCTION SHEETS (2 OF 2)
BRIDGE NO. HAM-75-2.386
IR-75 OVER HARRISON AVENUE

SFN 3109400

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
SAT	VDT

REVIEWER: EFD 06/21/24

PROJECT ID: 114161

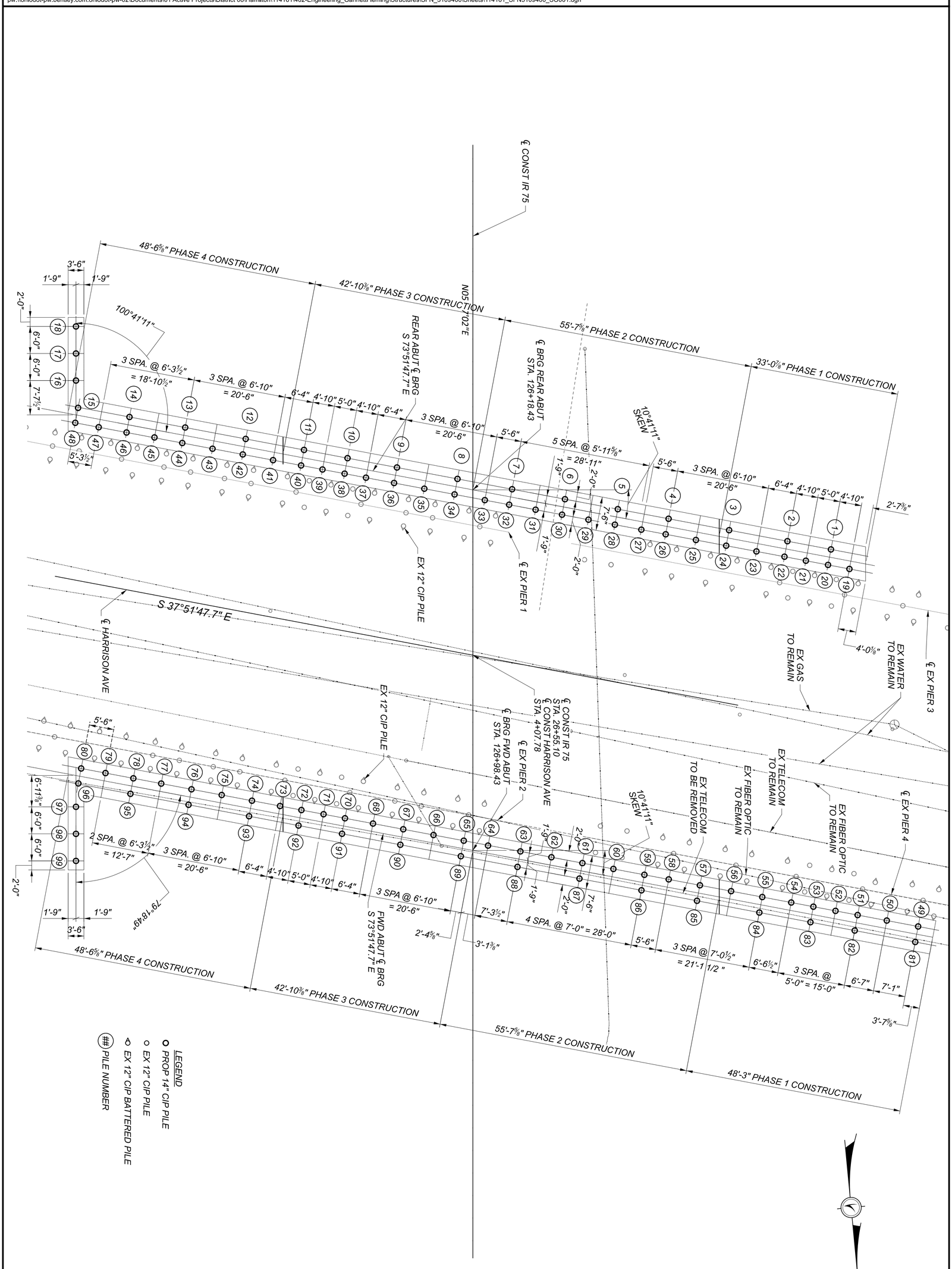
SUBSET	TOTAL
3	9

SHEET	TOTAL
P.439	463

HAM-75-1.95

PENTABLE SUBSET: 1 SUBMITTAL: SUB_STG PLOT DRIVER: OHDOT_PDF.pltcfg PENTABLE: 114161_BW.tbl

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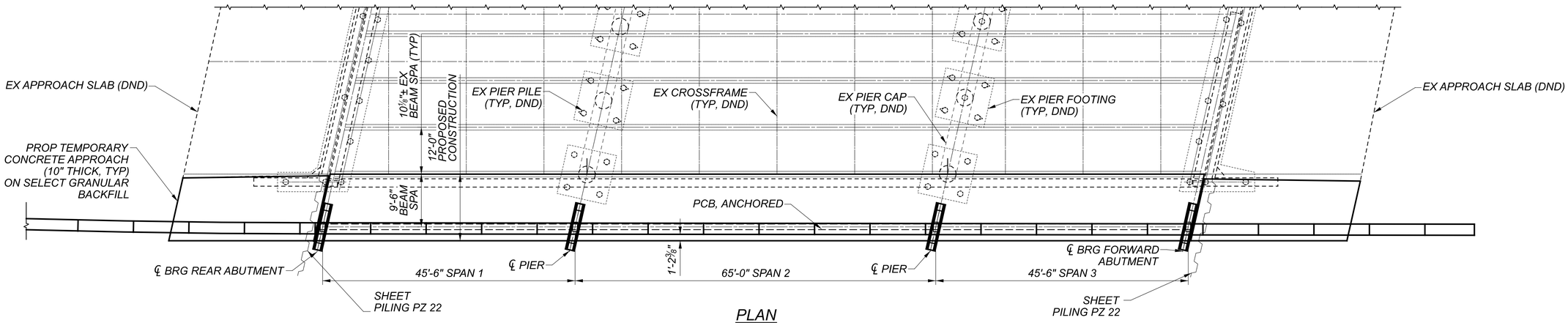


SHEET P.440	SUBSET 4	PROJECT ID 114161	REVIEWER EFD 06/21/24	DESIGNER SAT	CHECKER VDT	SFN 3109400
TOTAL 463	TOTAL 9					

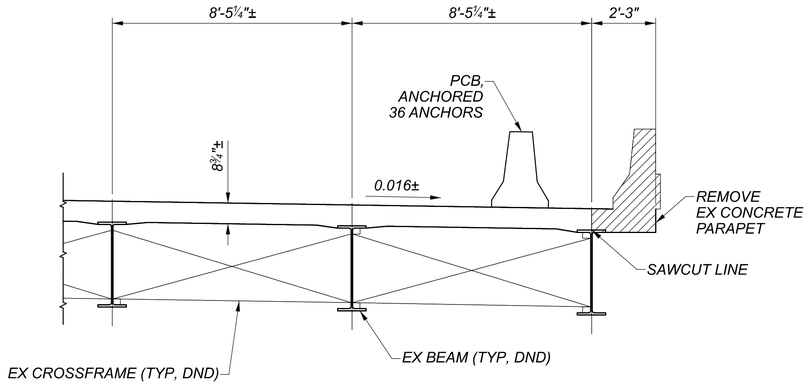
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 230
Columbus, OH 43231

DESIGN AGENCY

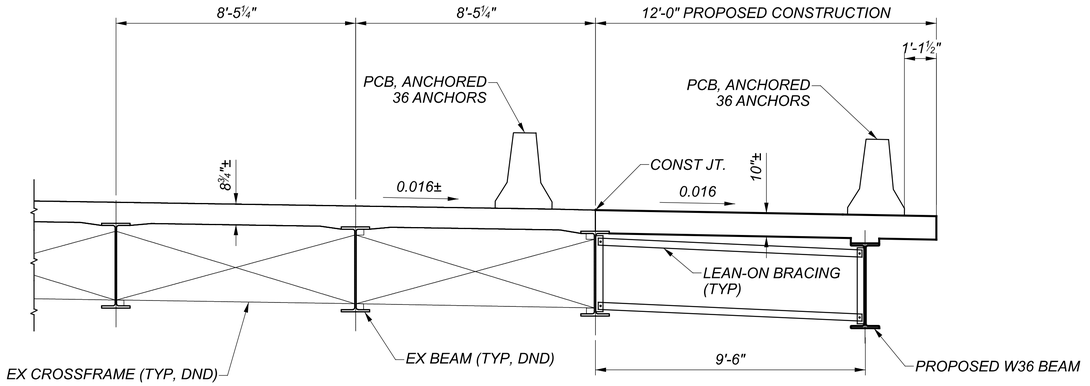
FOUNDATION PLAN
BRIDGE NO. HAM-75-2.386
IR-75 OVER HARRISON AVENUE



PLAN



SUPERSTRUCTURE REMOVAL DETAILS



SUPERSTRUCTURE RECONSTRUCTION DETAILS

LEGEND

- REMOVAL LIMITS

EXISTING LEFT BRIDGE WIDENING DETAILS (PRE-PHASE)
BRIDGE NO. HAM-75-2.386
IR-75 OVER HARRISON AVENUE

SFN 3109400

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
SAT	VDT

REVIEWER: EFD 06/21/24

PROJECT ID: 114161

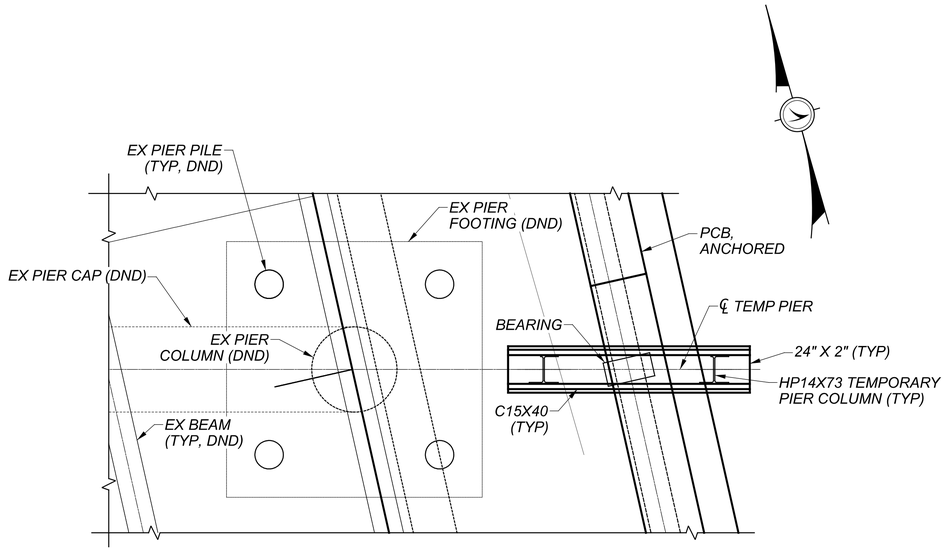
SUBSET	TOTAL
5	9

SHEET	TOTAL
P.441	463

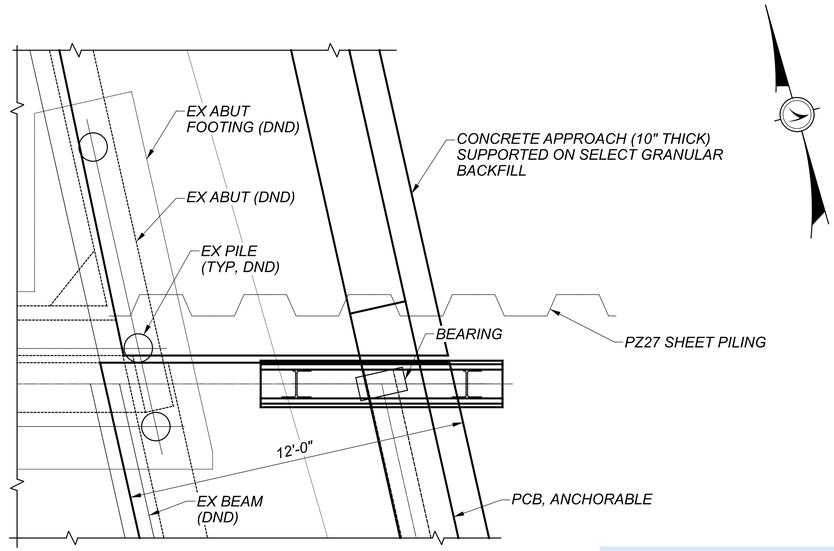
HAM-75-1.95

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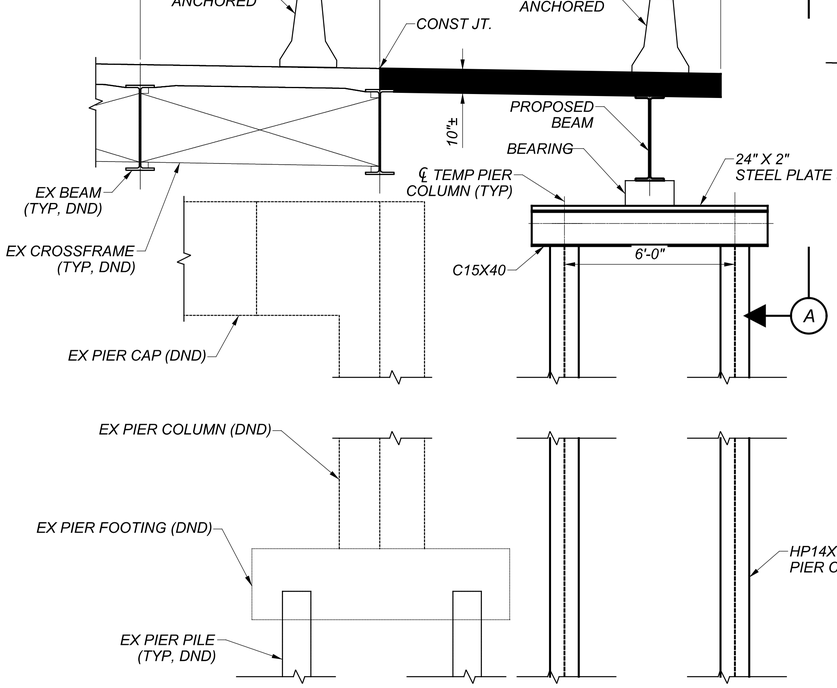


PLAN AT PIER

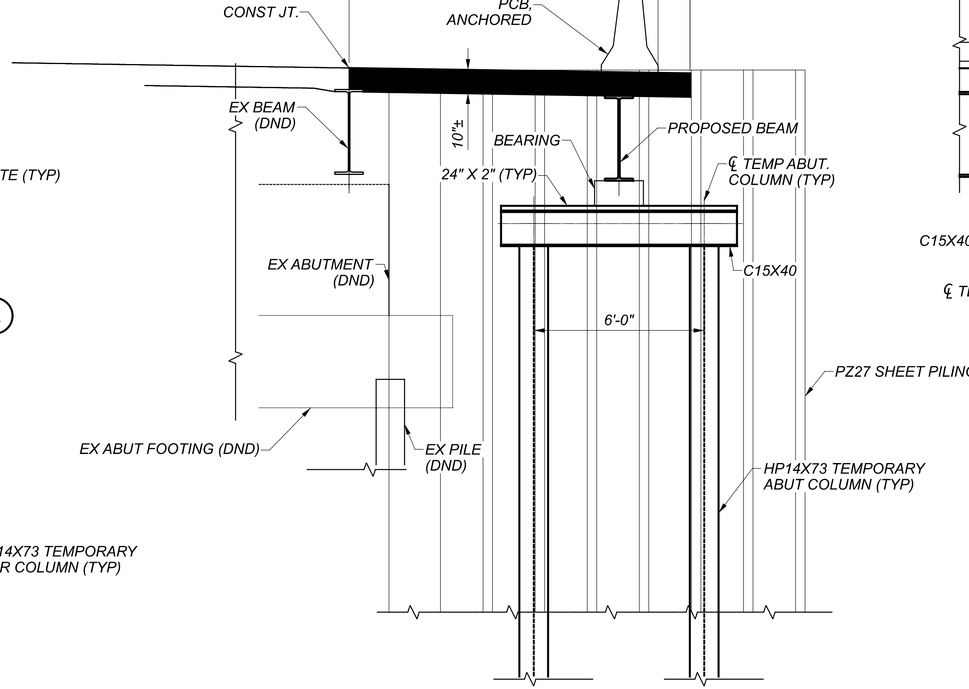


PLAN AT ABUTMENT

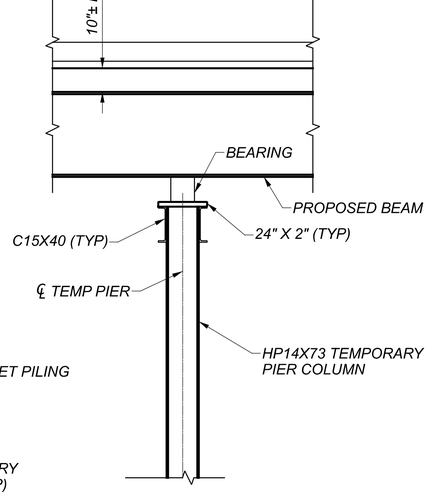
All of these temporary shoring items will need to be detailed in the plans and the design loads stated in case the contractor wants to design something else. This is typical comment for all custom temporary supports on the bridges.



ELEVATION AT PIER



ELEVATION AT ABUTMENT



SECTION A-A

LEGEND

- PROPOSED DECK CONSTRUCTION

TEMPORARY LEFT BRIDGE WIDENING DETAILS (PRE-PHASE)
BRIDGE NO. HAM-75-2.386
IR-75 OVER HARRISON AVENUE

SFN 3109400

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER SAT | CHECKER VDT

REVIEWER EFD 06/21/24

PROJECT ID 114161

SUBSET 6 | TOTAL 9

SHEET P.442 | TOTAL 463

HAM-75-1.95

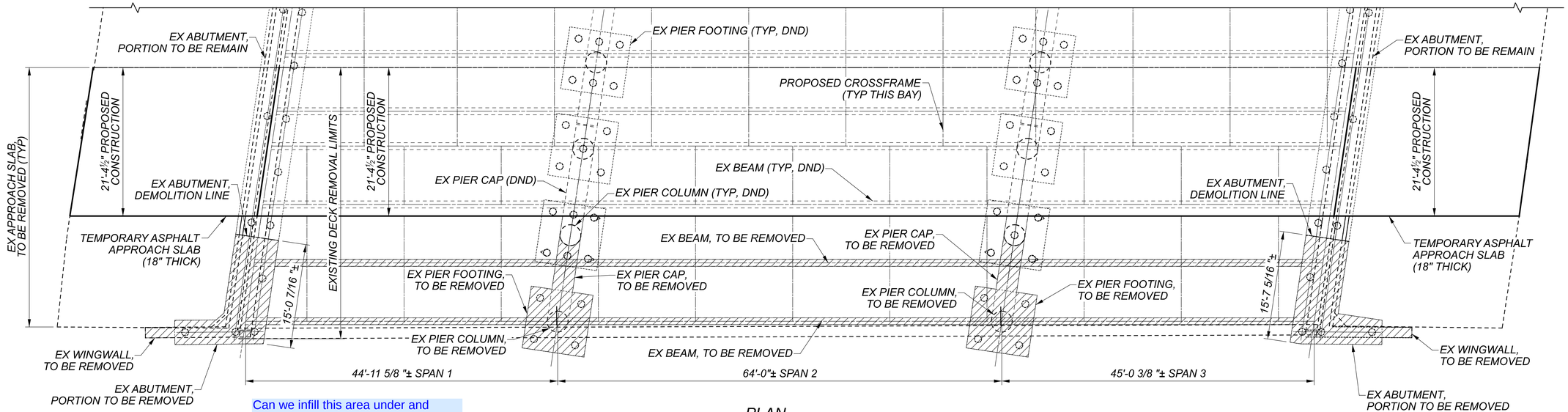
PENTABLE SUBSET: 1

SUBMITTAL: SUB_STG

PLOT DRIVER: OHDOT_PDF.pltcfg

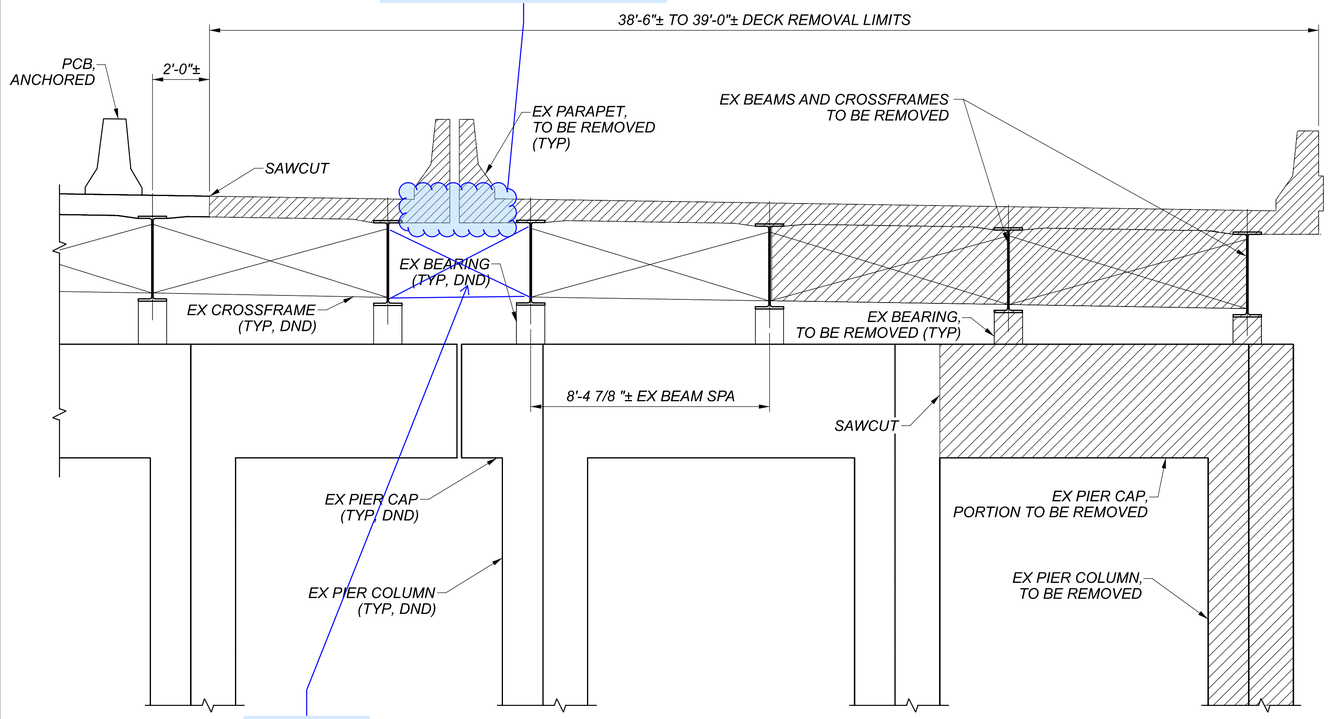
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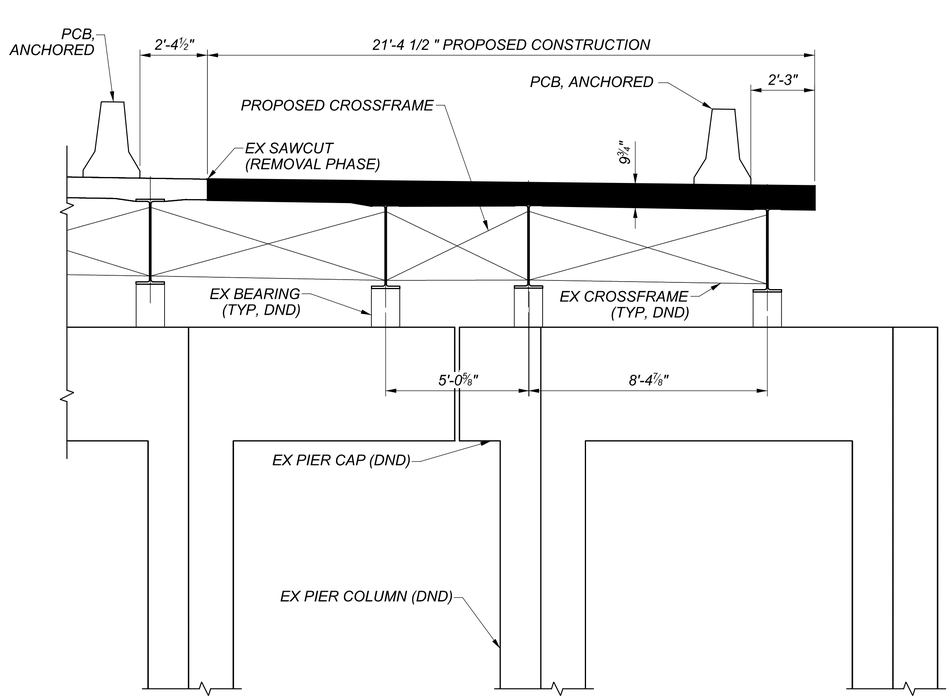
PLAN

Can we infill this area under and below the parapets without having to cast so much of temporary deck?



ELEVATION - REMOVAL

Install the x-frames before the deck is removed as at this state, the beams are still loaded and have not rebounded.



ELEVATION - PROPOSED

LEGEND

- PROPOSED DECK CONSTRUCTION
- REMOVAL LIMITS

TEMPORARY BRIDGE RECONSTRUCTION DETAILS (PRE-PHASE)

BRIDGE NO. HAM-75-2.386

IR-75 OVER HARRISON AVENUE

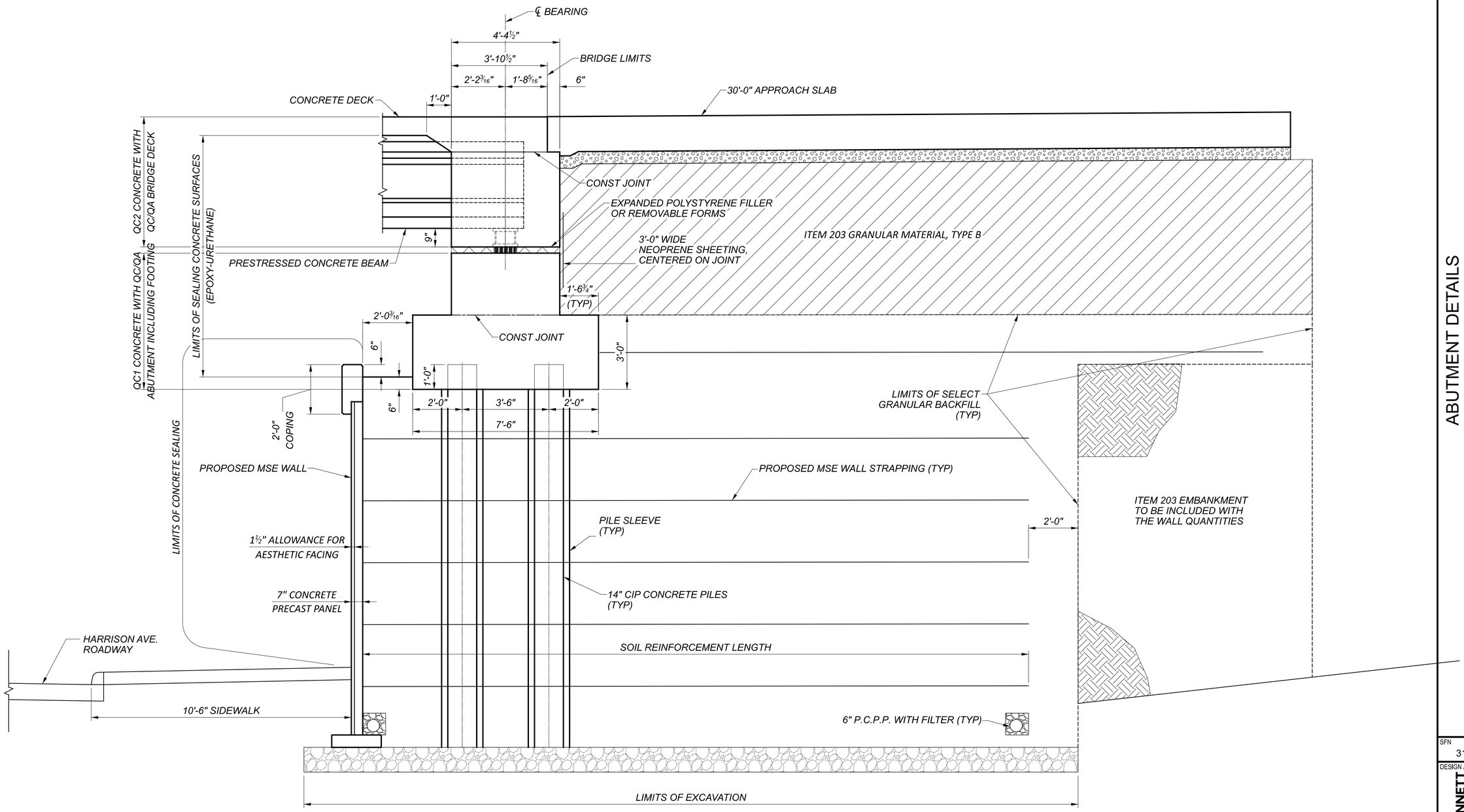
SFN	3109400
DESIGN AGENCY	GANNETT FLEMING, 2500 Corporate Exchange Dr. Suite 250, Columbus, OH 43231
DESIGNER	SAT
CHECKER	VDT
REVIEWER	EFD 06/21/24
PROJECT ID	114161
SUBSET	7
TOTAL	9
SHEET	P.443
TOTAL	463

HAM-75-1.95

PENTABLE SUBSET: 1 SUBMITTAL: SUB_STG PLOT DRIVER: OHDOT_PDF.pltcfg

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PENTABLE: 114161_BW.tbl



TYPICAL ABUTMENT SECTION

ABUTMENT DETAILS
BRIDGE NO. HAM-75-2.386
IR-75 OVER HARRISON AVENUE

SFN 3109400

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
SAT	VDT

REVIEWER
EFD 06/21/24

PROJECT ID
114161

SUBSET	TOTAL
8	9

SHEET	TOTAL
P.444	463

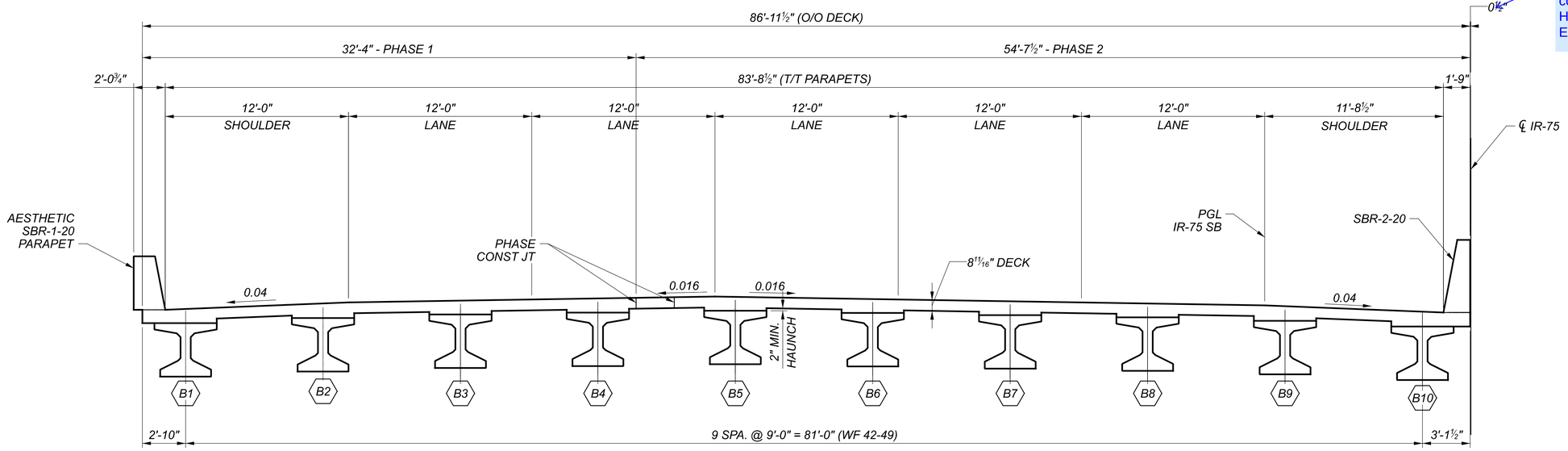
HAM-75-1.95

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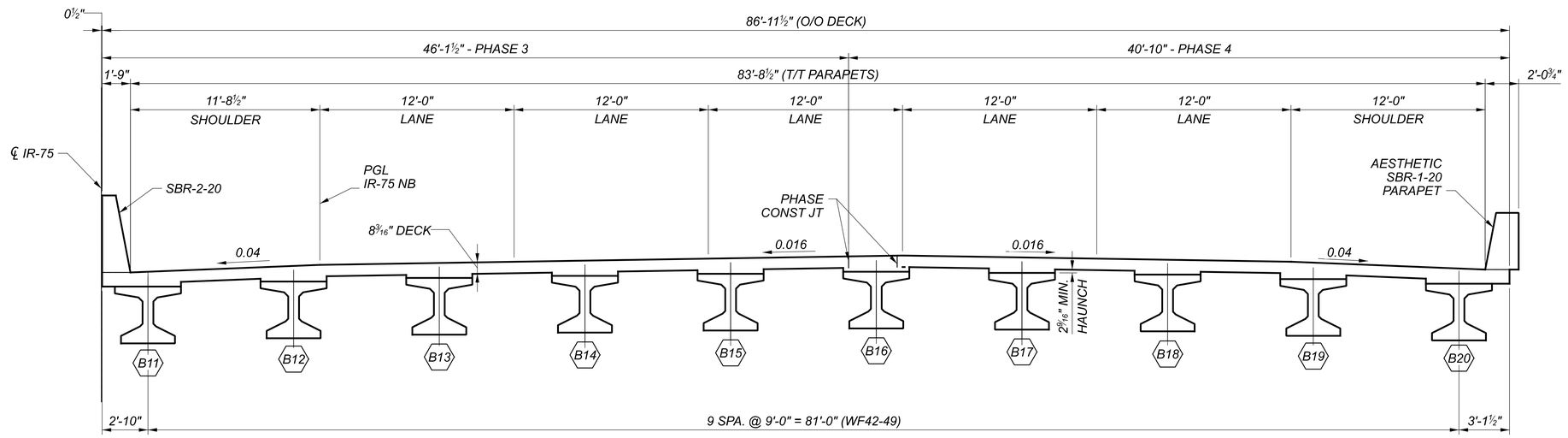
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PENTABLE: 114161_BW.tbl

Since this bridge has a tangent alignment, the minimum distance between barriers is 1 1/2" per conversation 10/2/24 with Hamilton County Resident Engineer Chris Tuminello.



PROPOSED TRANSVERSE SECTION
LEFT BRIDGE, LOOKING UPSTATION



PROPOSED TRANSVERSE SECTION
RIGHT BRIDGE, LOOKING UPSTATION

TRANSVERSE SECTION
BRIDGE NO. HAM-75-2.386
IR-75 OVER HARRISON AVENUE

SFN 3109400

DESIGN AGENCY
GANNETT FLEMING
2300 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
SAT	VDT

REVIEWER: EFD 06/21/24

PROJECT ID: 114161

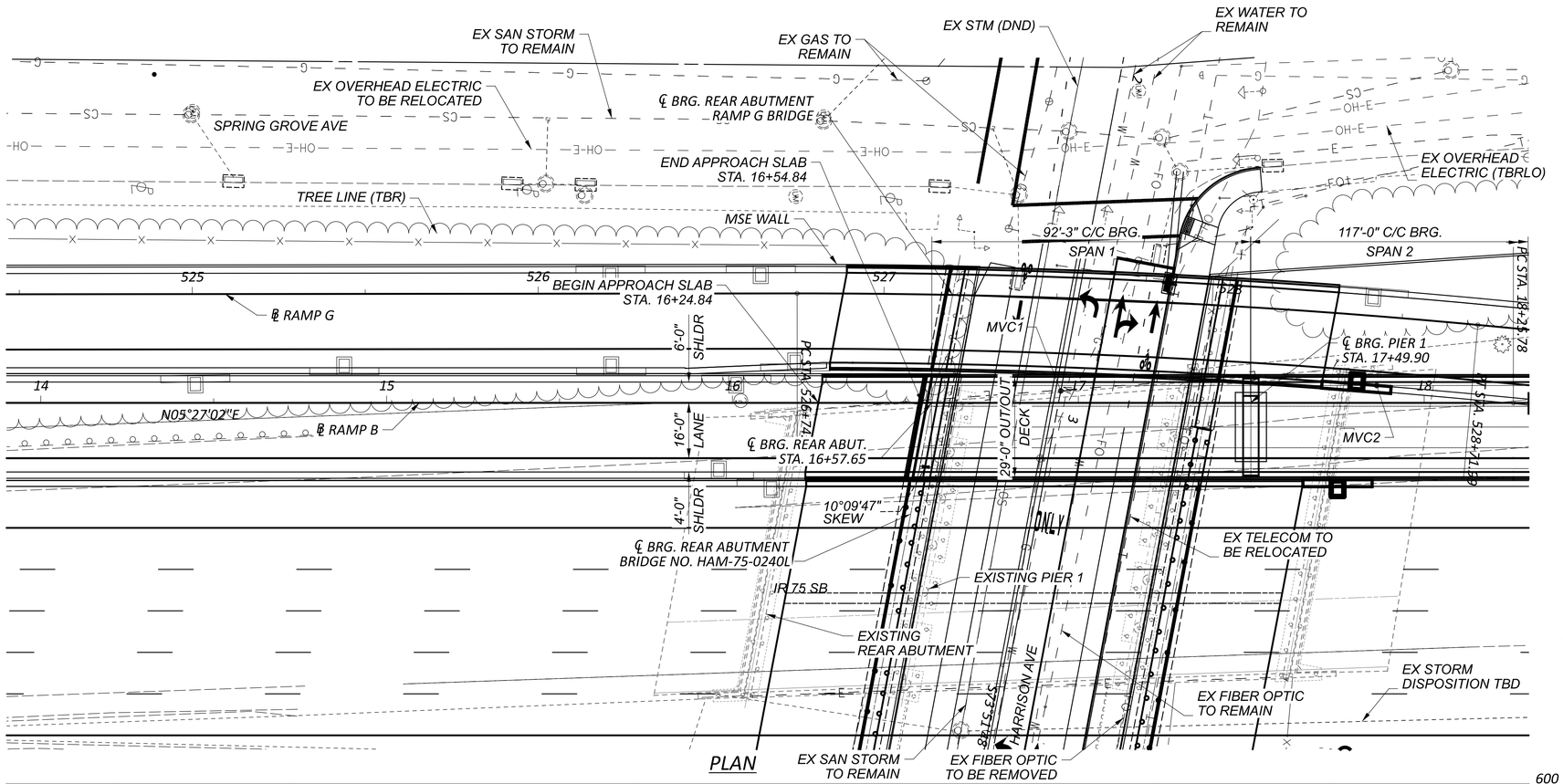
SUBSET	TOTAL
9	9

SHEET	TOTAL
P.445	463

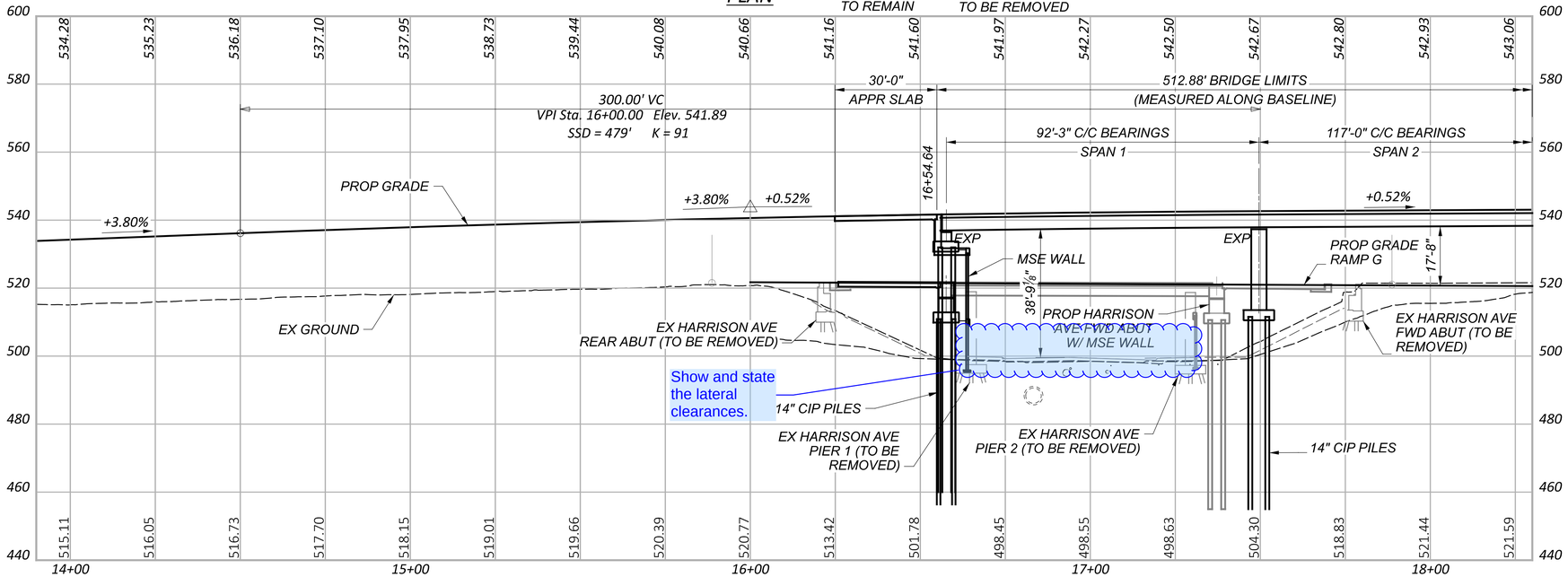
HAM-75-1.95

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PLAN



PROFILE ALONG ℄ RAMP B

CONTROL POINT DATA*

CP #1 STA.	124+31.09,	ELEV.	501.22,	OFFSET	178.50,	RT
CP #2 STA.	135+03.11,	ELEV.	508.78,	OFFSET	169.34,	RT

* STATIONS AND OFFSETS ARE ALONG ℄ CONST IR 75.

FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET P.3 - P.5 /463

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:

2030 ADT = 11,430 2030 ADTT = 457
2050 ADT = 12,000 2050 ADTT = 480
DIRECTIONAL DISTRIBUTION = 100%

LEGEND

BORING LOCATION

● 16'-6" REQUIRED MINIMUM VERTICAL CLEARANCE
16'-8" ACTUAL MINIMUM VERTICAL CLEARANCE, SEE BELOW FOR CRITICAL CLEARANCE AREAS

MVC1 = G1 AT CROWN OF HARRISON AVE = 38'-9⅛"
MVC2 = G8 AT SHOULDER OF RAMP G = 17'-8"
MVC3 = PIER 2 CAP OVER RAMP G CROWN = 16'-8"
MVC4 = PIER 3 CAP OVER RAMP G CROWN = 17'-9"

CURVE DATA

P.I. STA. 19+13.40
Δ = 10°29'02" LT
Dc = 05°59'58"
R = 955.00'
T = 87.62'
L = 174.74'
E = 4.01'

PROPOSED STRUCTURE

TYPE: CONTINUOUS COMPOSITE STEEL GIRDERS WITH REINFORCED CONCRETE DECK SLAB ON T-TYPE PIERS, REINFORCED CONCRETE STRADDLE BENT PIERS, AND SEMI-INTEGRAL ABUTMENT WITH MSE WALLS

SPANS: 92'-3", 117'-0", 117'-0", 83'-1"

ROADWAY: 26'-0" TOE/TOE PARAPET

LOADING: HL93 AND 60 PSF FUTURE WEARING SURFACE

SKEW: VARIES, 10° 41' 42" LEFT FORWARD (REAR ABUT)
0° (PIERS 1, 2, AND 3), 16° 6' 59" LEFT FORWARD (FWD ABUT)

WEARING SURFACE: 1" MONOLITHIC CONCRETE

APPROACH SLABS: 30'-0" LONG (AS-1-15, AS-2-15) REAR ONLY

ALIGNMENT: TANGENT AND CURVED

CROWN: VARIES

DECK AREA: 12,783 SF

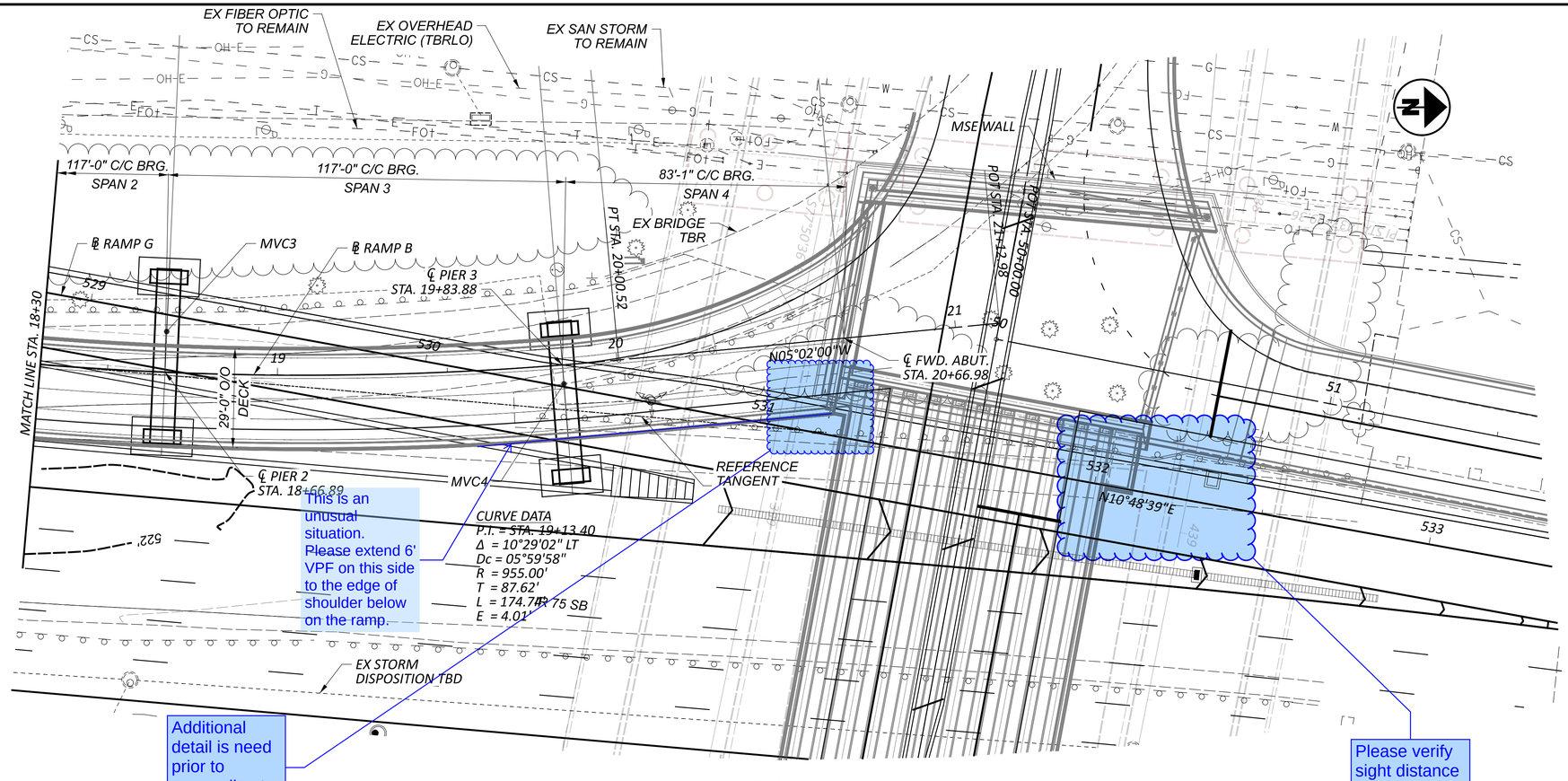
COORDINATES: LATITUDE 39° 07' 22.2" N
LONGITUDE 84° 32' 08.8" W

SITE PLAN (1/2)
BRIDGE NO. HAM-75-2.390
IR 75 SOUTHBOUND ON RAMP B OVER HARRISON AVE AND RAMP G

SFN 3109402
DESIGN AGENCY GANNETT FLEMING 2100 Corporate Exchange Dr. Suite 300 Columbus, OH 43231
DESIGNER MTO CHECKER VDT
REVIEWER EFD 06/21/24
PROJECT ID 114161
SUBSET 1 TOTAL 9
SHEET P.446 TOTAL 463

HAM-75-1.95

MODEL: BLP_RAMP B - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 6/20/2024 TIME: 5:43:13 PM USER: stony
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PLOT DRIVER: OHDOT_PDF.pltcfg
SUBMITTAL: SUB_STG
PENTABLE SUBSET: 1
PENTABLE: 114161_BW.tbl



NOTES

-

AND RAMP G HIGH SHOULDER

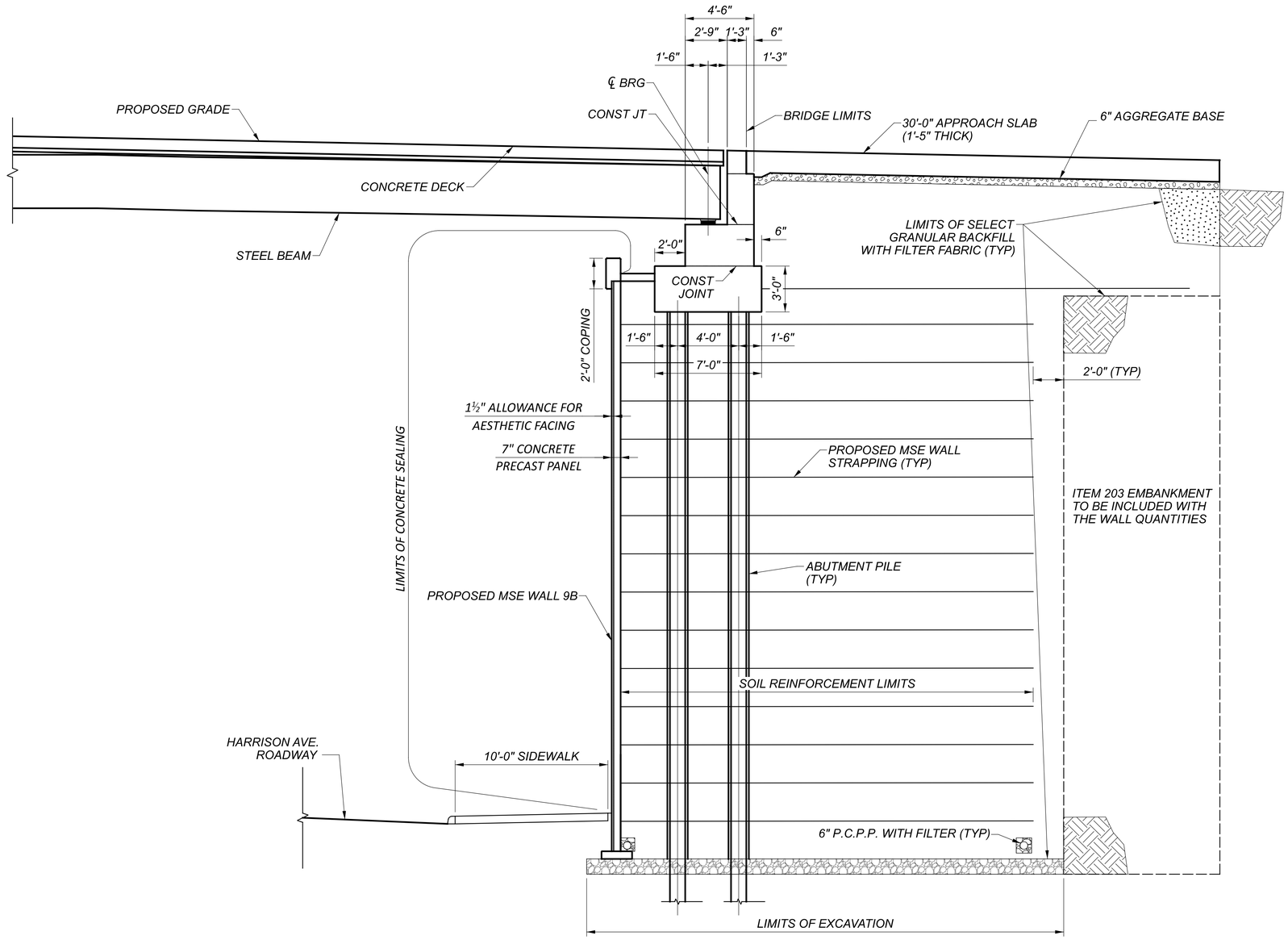
SITE PLAN (2/2)
BRIDGE NO. HAM-75-2.390
IR 75 SOUTHBOUND ON RAMP B OVER HARRISON AVE AND RAMP G

SFN	3109402
DESIGN AGENCY	GANNETT FLEMING, 2500 Corporate Exchange Dr. Suite 200, Columbus, OH 43231
DESIGNER	MTO
CHECKER	VDT
REVIEWER	EFD 06/21/24
PROJECT ID	114161
SUBSET	2
TOTAL	9
SHEET	P.447
TOTAL	463

HAM-75-1.95

PENTABLE SUBSET: T
SUBMITTAL: SUB_STG
PLOT DRIVER: OHDOT_PDF.pltcfg
PENTABLE: 114161_BW.tbl

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RAMP B REAR ABUTMENT TYPICAL SECTION

REAR ABUTMENT DETAILS
BRIDGE NO. HAM-75-2.390
IR 75 SOUTHBOUND ON RAMP B OVER HARRISON AVE AND RAMP G

SFN 3109402

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 300
Columbus, OH 43231

DESIGNER	CHECKER
SAT	MTO

REVIEWER
EFD 06/21/24

PROJECT ID
114161

SUBSET	TOTAL
3	9

SHEET	TOTAL
P.448	463

HAM-75-1.95

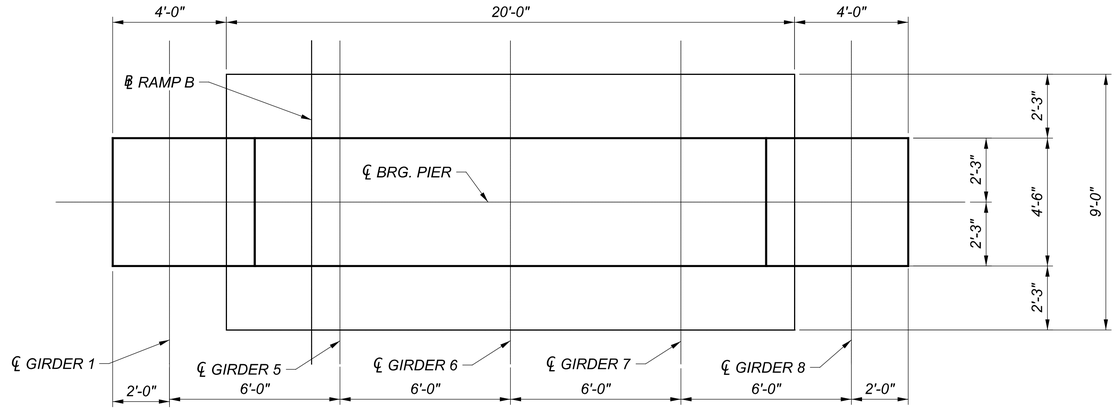
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SUBMITTAL: SUB_STG

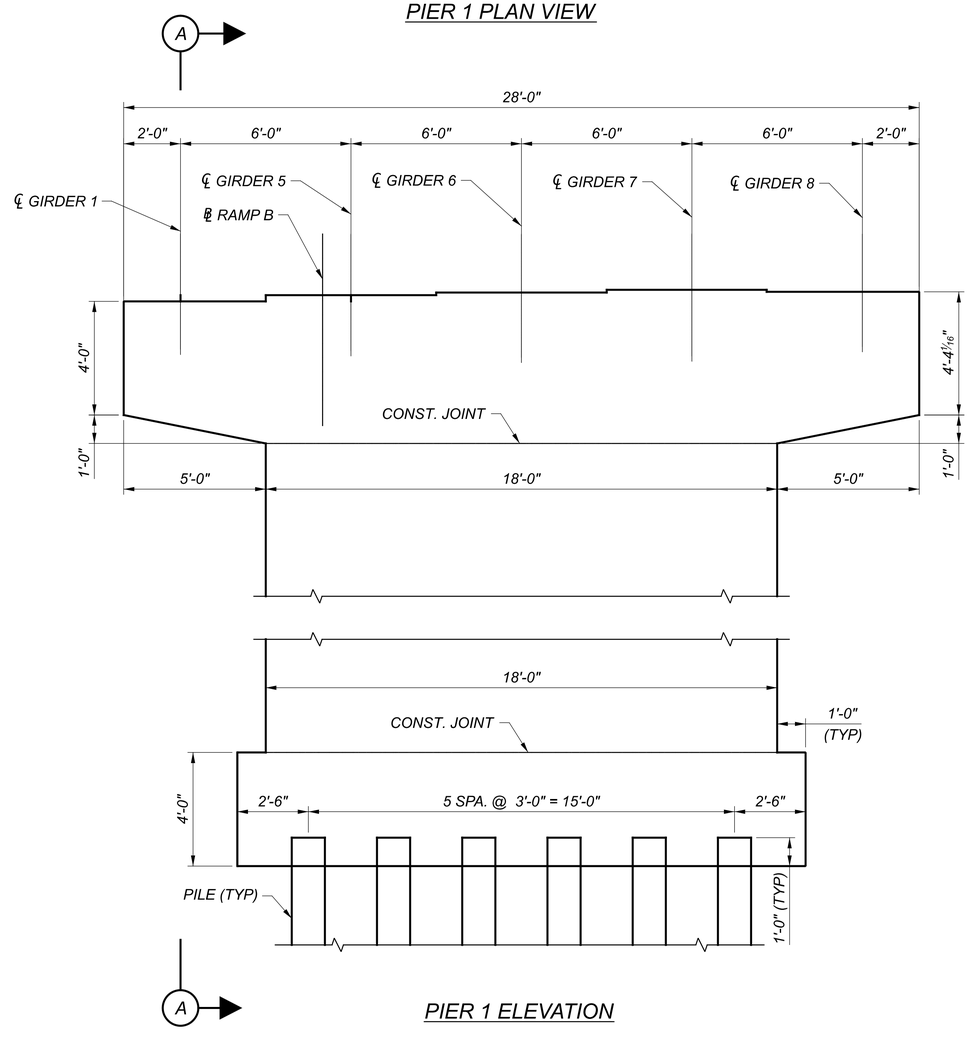
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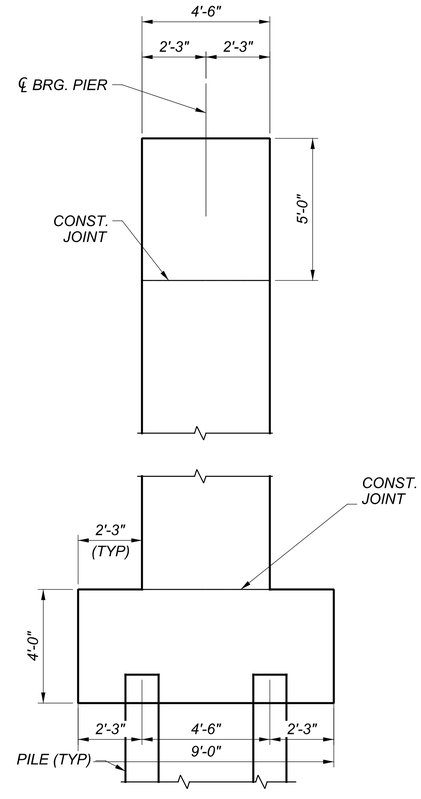
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PIER 1 PLAN VIEW



PIER 1 ELEVATION



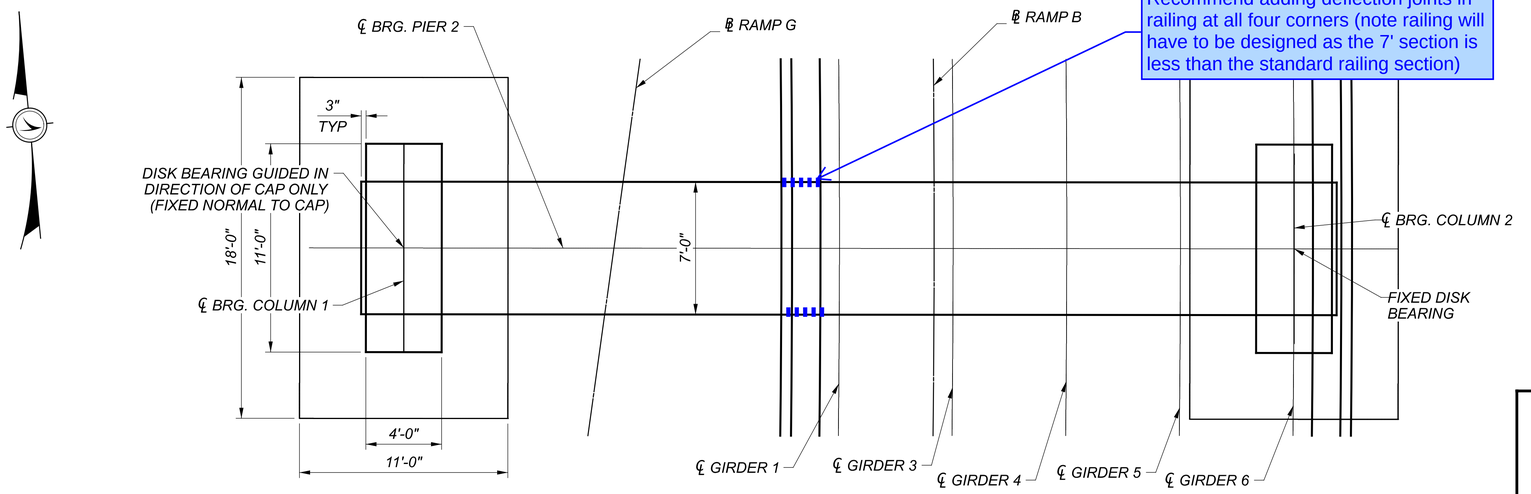
SECTION A-A

PIER 1 DETAILS
BRIDGE NO. HAM-75-2.390
IR 75 SOUTHBOUND ON RAMP B OVER HARRISON AVE AND RAMP G

SFN	3109402
DESIGN AGENCY	GANNETT FLEMING, 2500 Corporate Exchange Dr. Suite 200, Columbus, OH 43231
DESIGNER	VDT
CHECKER	SAT
REVIEWER	EFD 06/21/24
PROJECT ID	114161
SUBSET	4
TOTAL	9
SHEET	P.449
TOTAL	463

HAM-75-1.95

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PIER 2 PLAN VIEW

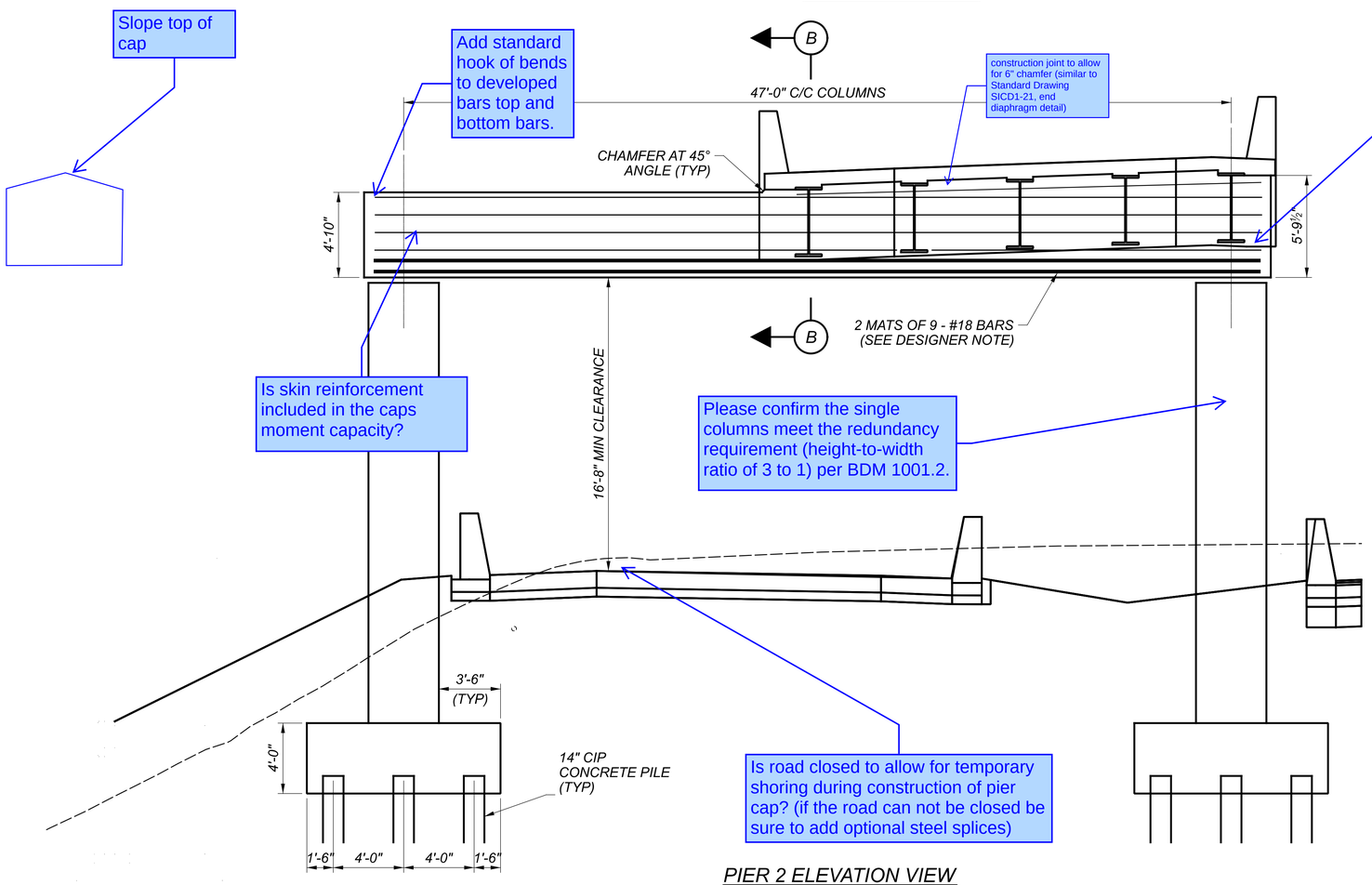
Designer Notes;

Has the designer considered the use of chromium steel reinforcement with 100 KSI for pier cap only.

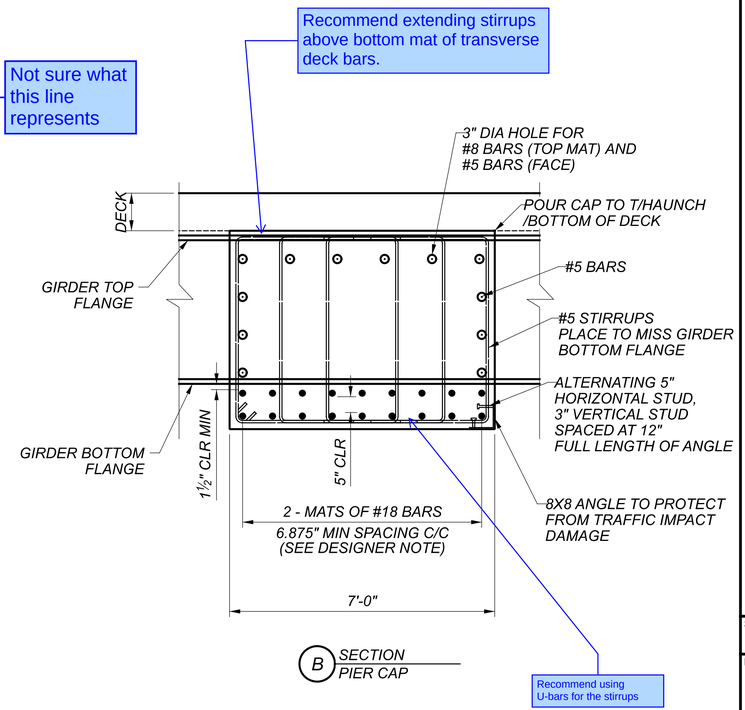
Has the designer considered using a higher strength concrete greater than QC1 and QC2?

DESIGNER NOTE

PRELIMINARY CONSERVATIVE DESIGN CALCULATIONS SHOWED THAT A TRADITIONALLY REINFORCED CONCRETE CAP WOULD WORK WITH 2 MATS OF 9 - #18 BARS WITH THE CURENT LAYOUT. A MORE REFINED ANALYSIS SHOWED THAT THE TRADITIONALLY REINFORCED CONCRETE CAP COULD BE FEASIBLE WITH JUST ONE ROW OF #18 BARS. THE PLANS WILL REMAIN SHOWING THE DOUBLE MAT OF REINFORCING, HOWEVER IN FINAL DESIGN THERE MAY BE LESS #18 BARS IN THE CAP PENDING FURTHER ANALYSIS.



PIER 2 ELEVATION VIEW



B SECTION PIER CAP

PIER 2 DETAILS
BRIDGE NO. HAM-75-2.390
IR 75 SOUTHBOUND ON RAMP B OVER HARRISON AVE AND RAMP G

SFN 3109402

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
VDT	SAT

REVIEWER: EFD 06/21/24

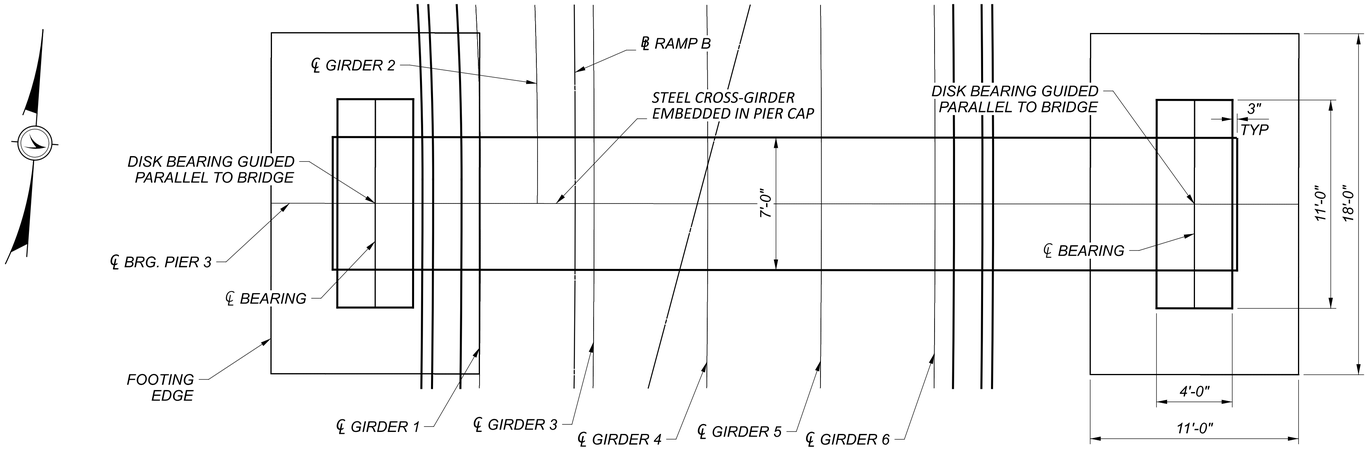
PROJECT ID: 114161

SUBSET	TOTAL
5	9

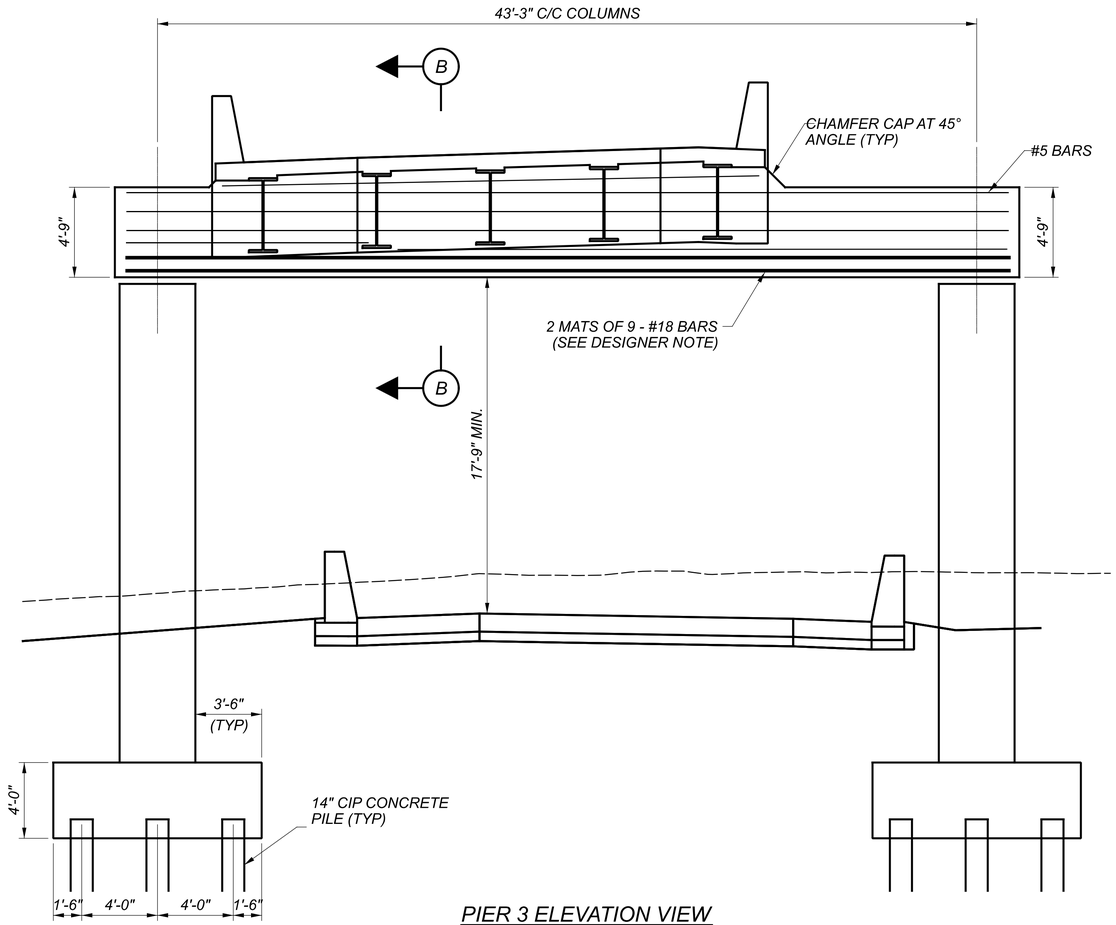
SHEET	TOTAL
P.450	463

HAM-75-1.95

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PIER 3 PLAN VIEW

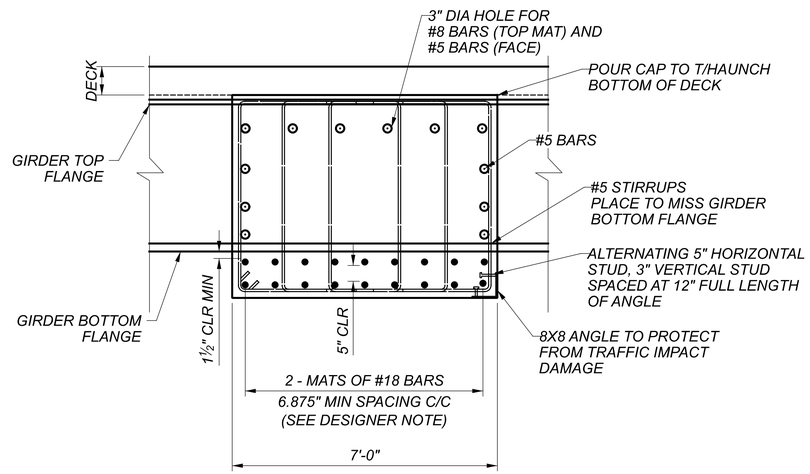


PIER 3 ELEVATION VIEW

Same apply comments from Pier two.

DESIGNER NOTE:

PRELIMINARY CONSERVATIVE DESIGN CALCULATIONS SHOWED THAT A TRADITIONALLY REINFORCED CONCRETE CAP WOULD WORK WITH 2 MATS OF 9 - #18 BARS WITH THE CURENT LAYOUT. A MORE REFINED ANALYSIS SHOWED THAT THE TRADITIONALLY REINFORCED CONCRETE CAP COULD BE FEASIBLE WITH JUST ONE ROW OF #18 BARS. THE PLANS WILL REMAIN SHOWING THE DOUBLE MAT OF REINFORCING, HOWEVER IN FINAL DESIGN THERE MAY BE LESS #18 BARS IN THE CAP PENDING FURTHER ANALYSIS.

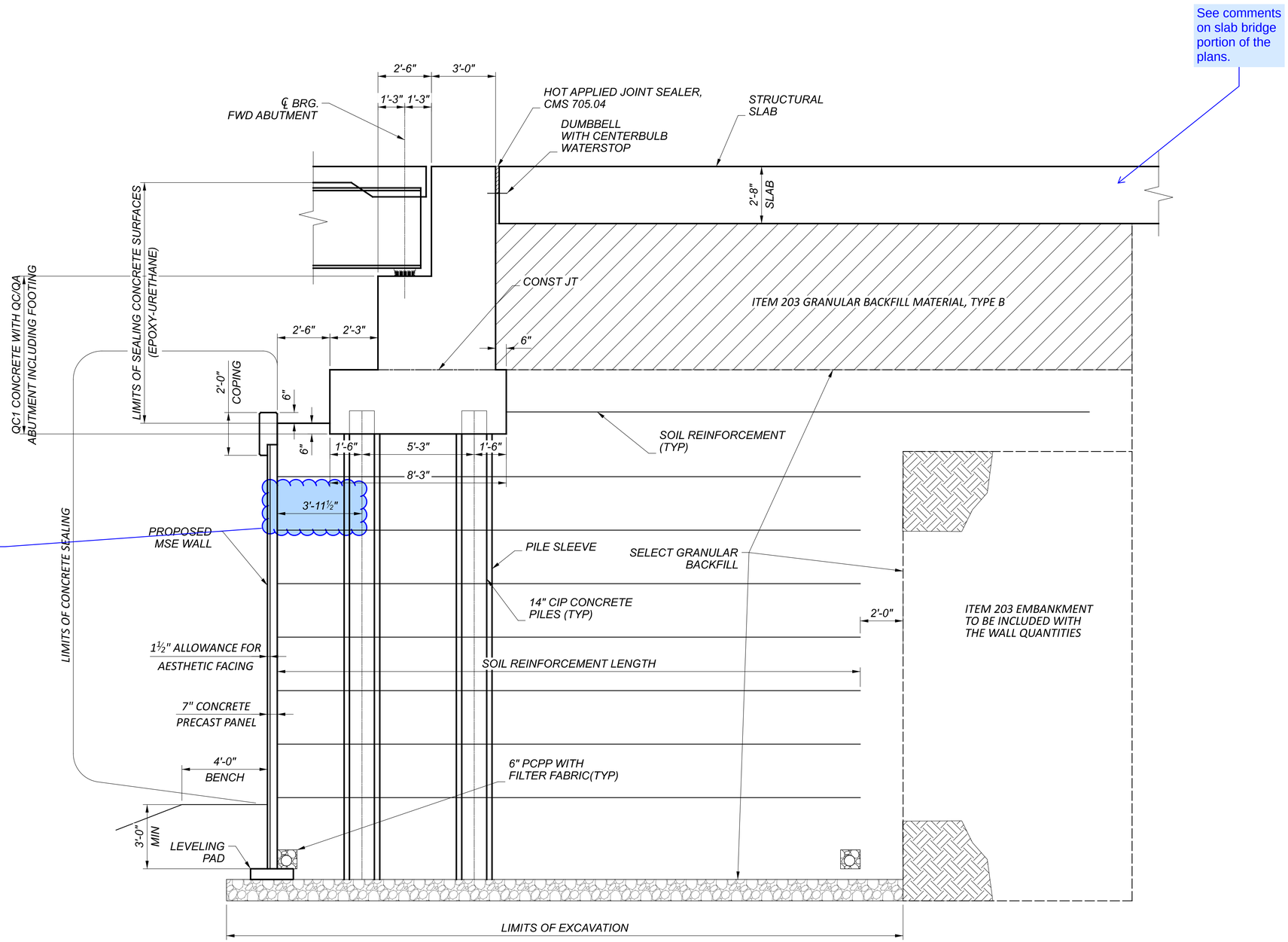


B SECTION PIER CAP

PIER 3 DETAILS
BRIDGE NO. HAM-75-2.390
IR 75 SOUTHBOUND ON RAMP B OVER HARRISON AVE AND RAMP G

SFN	3109402
DESIGN AGENCY	GANNETT FLEMING, 2300 Corporate Exchange Dr. Suite 200, Columbus, OH 43231
DESIGNER	VDT
CHECKER	SAT
REVIEWER	EFD 06/21/24
PROJECT ID	114161
SUBSET	6
TOTAL	9
SHEET	P.451
TOTAL	463

HAM-75-1.95 PENTABLE SUBSET: 1 SUBMITTAL: SUB_STG PLOT DRIVER: OHDOT_PDF.pltcfg
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PENTABLE: 114161_BW.tbl



FORWARD ABUTMENT SECTION

FORWARD ABUTMENT DETAILS
BRIDGE NO. HAM-75-2.390
IR 75 SOUTHBOUND ON RAMP B OVER HARRISON AVE AND RAMP G

SFN 3109402

DESIGN AGENCY
GANNETT FLEMING
2300 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
SAT	MTO

REVIEWER: EFD 06/21/24

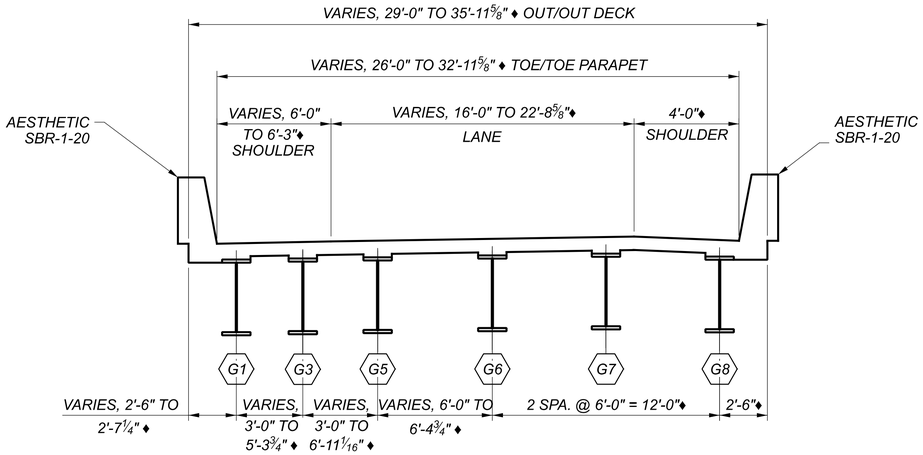
PROJECT ID: 114161

SUBSET	TOTAL
7	9

SHEET	TOTAL
P.452	463

HAM-75-1.95

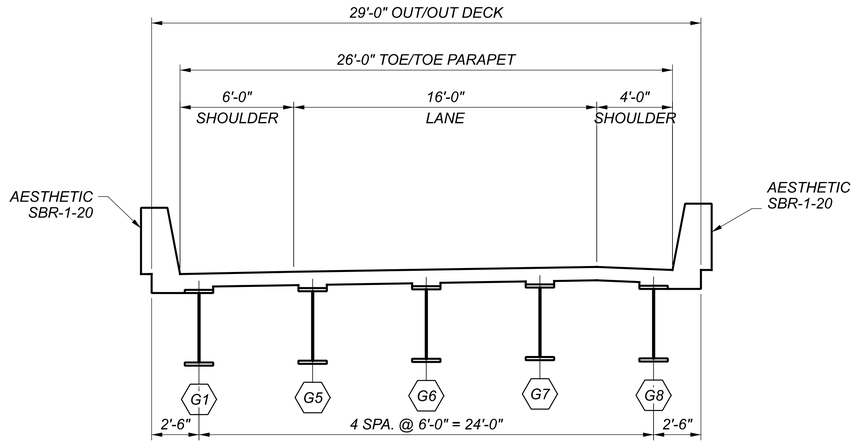
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TRANSVERSE SECTION
FROM STA. 19+83.92 TO STA. 20+27.05

LEGEND
♦ *DISTANCES MEASURED PERPENDICULAR TO BASELINE OF RAMP B*

Please confirm the structure was analyzed for part-width deck replacement. (TYP all bridges)

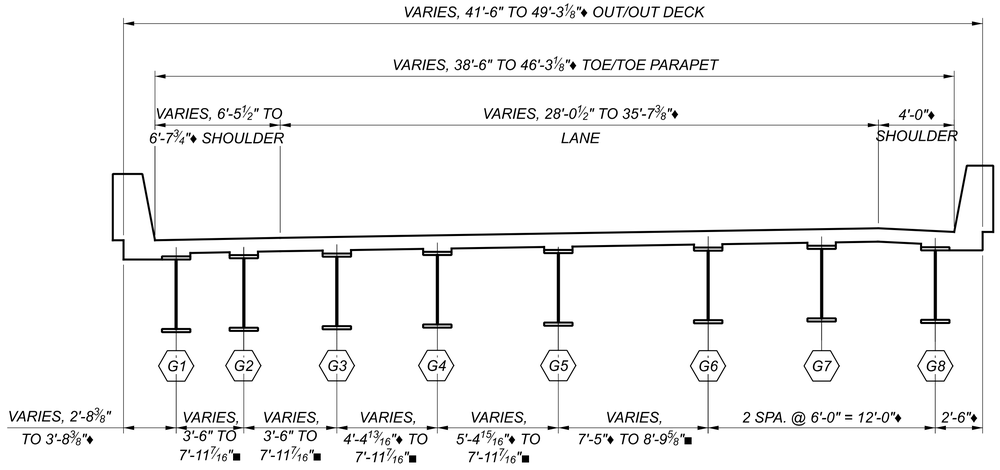


TRANSVERSE SECTION
FROM STA. 15+59.92 TO STA. 19+83.92

TRANSVERSE SECTIONS (1/2)
BRIDGE NO. HAM-75-2.390
IR 75 SOUTHBOUND ON RAMP B OVER HARRISON AVE AND RAMP G

SFN 3109402
DESIGN AGENCY GANNETT FLEMING 2500 Corporate Exchange Dr. Suite 200 Columbus, OH 43231
DESIGNER SAT | CHECKER VDT
REVIEWER EFD 06/21/24
PROJECT ID 114161
SUBSET 8 | TOTAL 9
SHEET P.453 | TOTAL 463

HAM-75-1.95 PENTABLE SUBSET: 1 SUBMITTAL: SUB_STG PLOT DRIVER: OHDOT_PDF.pltcfg PENTABLE: 114161_BW.tbl
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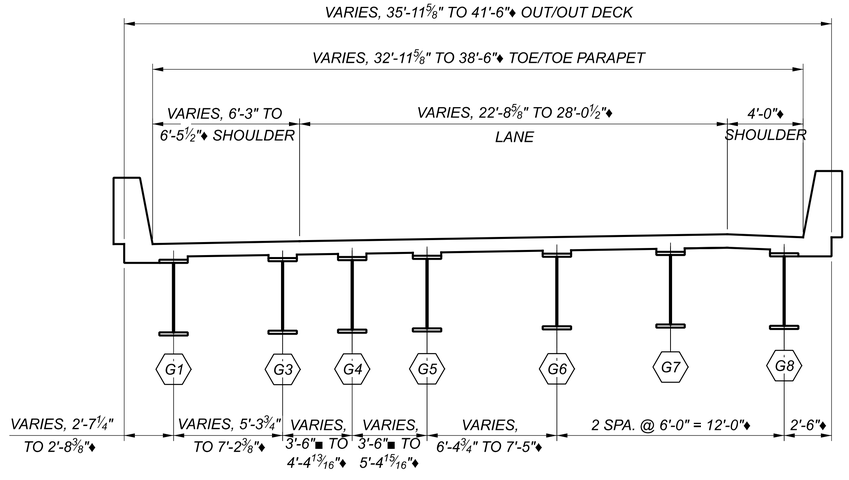


TRANSVERSE SECTION
FROM STA. 20+51.57 TO STA. 20+67.92

LEGEND

♦ *DISTANCES MEASURED PERPENDICULAR TO BASELINE OF RAMP B*

■ *DISTANCES MEASURED CENTER/CENTER BEAM*



TRANSVERSE SECTION
FROM STA. 20+35.71 TO STA. 20+51.57

TRANSVERSE SECTIONS (2/2)
BRIDGE NO. HAM-75-2.390
IR 75 SOUTHBOUND ON RAMP B OVER HARRISON AVE AND RAMP G

SFN 3109402

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
SAT	VDT

REVIEWER: EFD 06/21/24

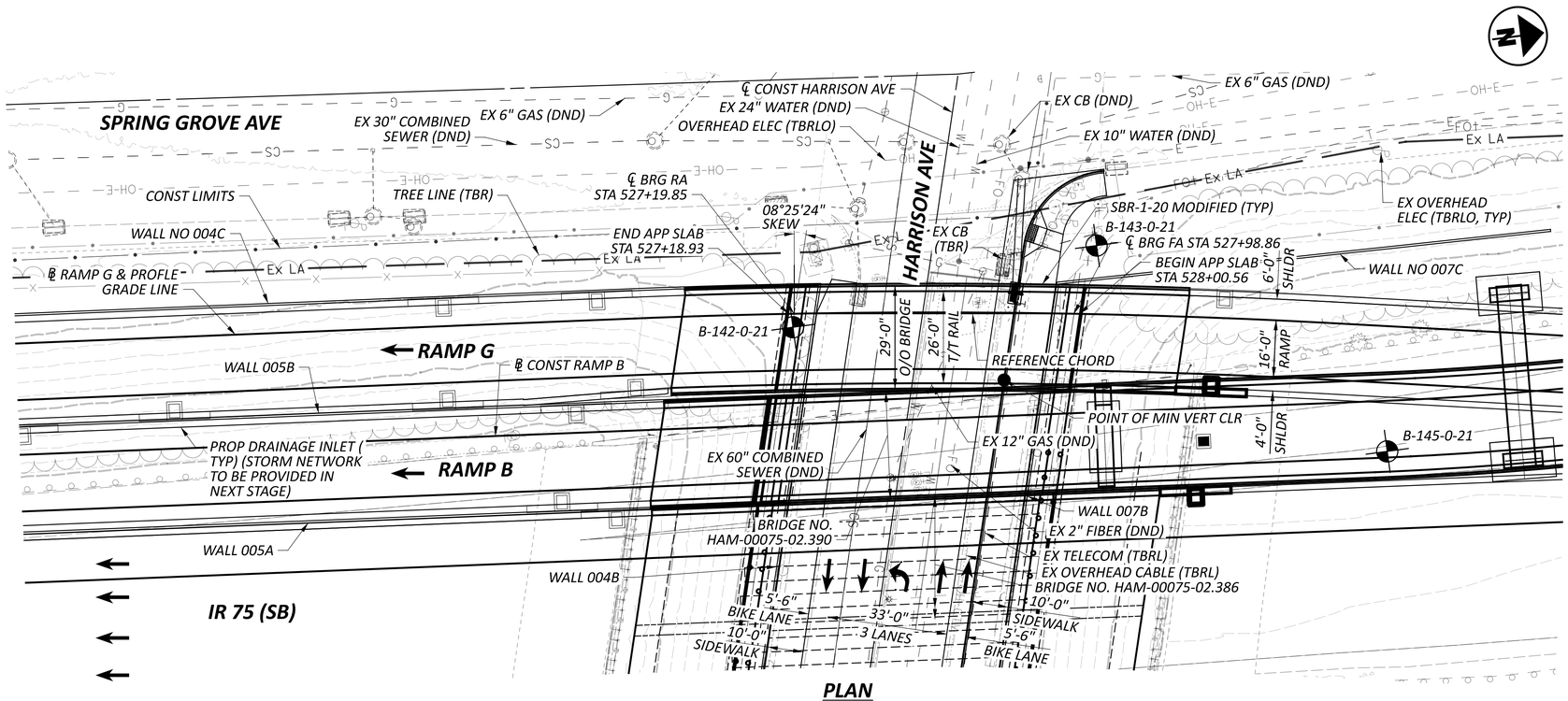
PROJECT ID: 114161

SUBSET	TOTAL
9	9

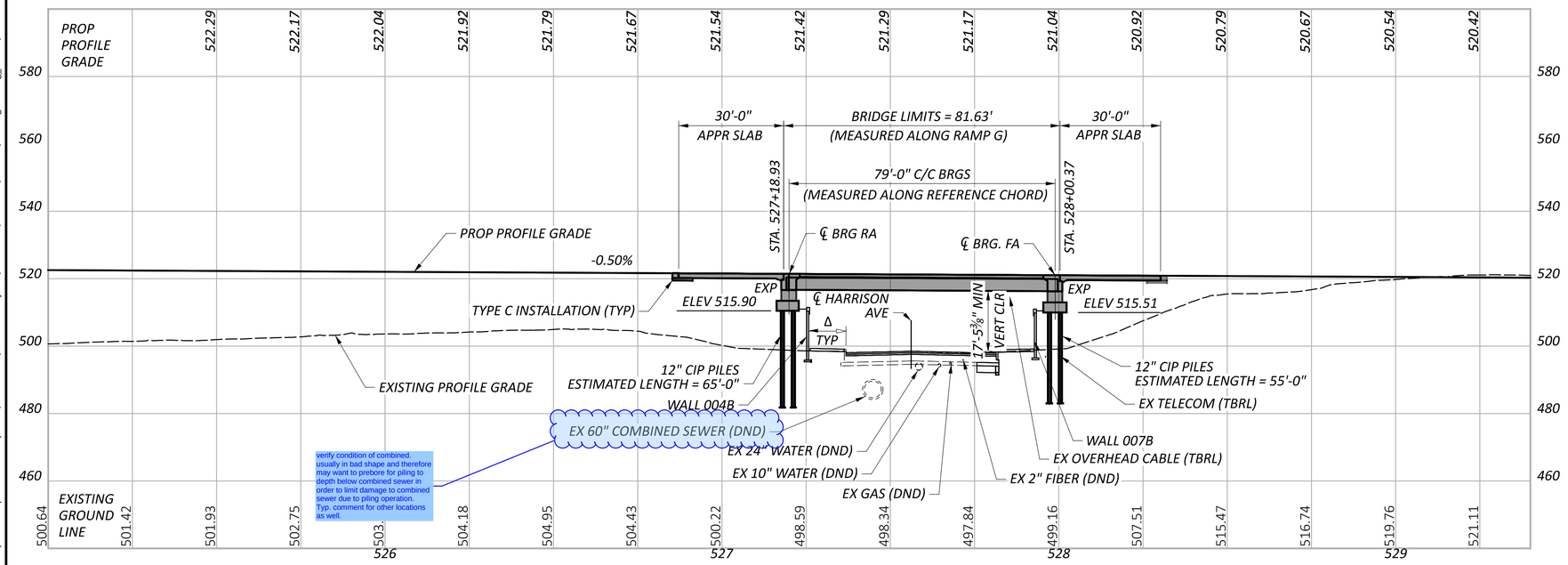
SHEET	TOTAL
P.454	463

HAM-75-1.95

PENTABLE SUBSET: 1 PENTABLE: 114161_BW.tbl
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PLAN



PROFILE ALONG ℄ RAMP G

CONTROL POINT DATA*

CP #1 STA.	124+31.09,	ELEV.	501.22 ,	OFFSET	178.50,	RT
CP #2 STA.	135+03.11,	ELEV.	508.78 ,	OFFSET	169.34,	RT

* STATIONS AND OFFSETS ARE ALONG ℄ CONST IR 75.

FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET P.3 - P.5 /463

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:

2029 ADT =	7,150	2029 ADTT =	858
2049 ADT =	7,350	2049 ADTT =	882

LEGEND

- BORING LOCATION
- ● 16'-6" REQUIRED MINIMUM VERTICAL CLEARANCE
  17'-5⅜" ACTUAL MINIMUM VERTICAL CLEARANCE
- Δ - 10'-0" REQUIRED HORIZONTAL CLEARANCE
  10'-8" ACTUAL HORIZONTAL CLEARANCE

RAMP G CURVE DATA

P.I. = 527+73.51
Δ = 05°25'15" RT
Dc = 02°45'00"
R = 2,083.48'
T = 98.64'
L = 197.12'
E = 2.33'

PROPOSED STRUCTURE

TYPE: SEMI-INTEGRAL SINGLE-SPAN PRESTRESSED I-BEAM WITH COMPOSITE REINFORCED CONCRETE DECK SUPPORTED ON SEMI-INTEGRAL ABUTMENT BEHIND MSE WALLS

SPANS: 79'-0" C/C BRGS (MEASURED ALONG REFERENCE CHORD)
ROADWAY: 26'-0" TOE/TOE PARAPET
LOADING: HL93 AND 0.06 KSF FUTURE WEARING SURFACE
SKEW: 08°25'24" LF (MEASURED PERP TO REFERENCE CHORD)
WEARING SURFACE: 1" MONOLITHIC CONCRETE
APPROACH SLABS: 30'-0" LONG (AS-1-15, AS-2-15)
ALIGNMENT: 2°45'00" CURVE
SUPERELEVATION: 0.042 FT/FT
DECK AREA: 2390 SF

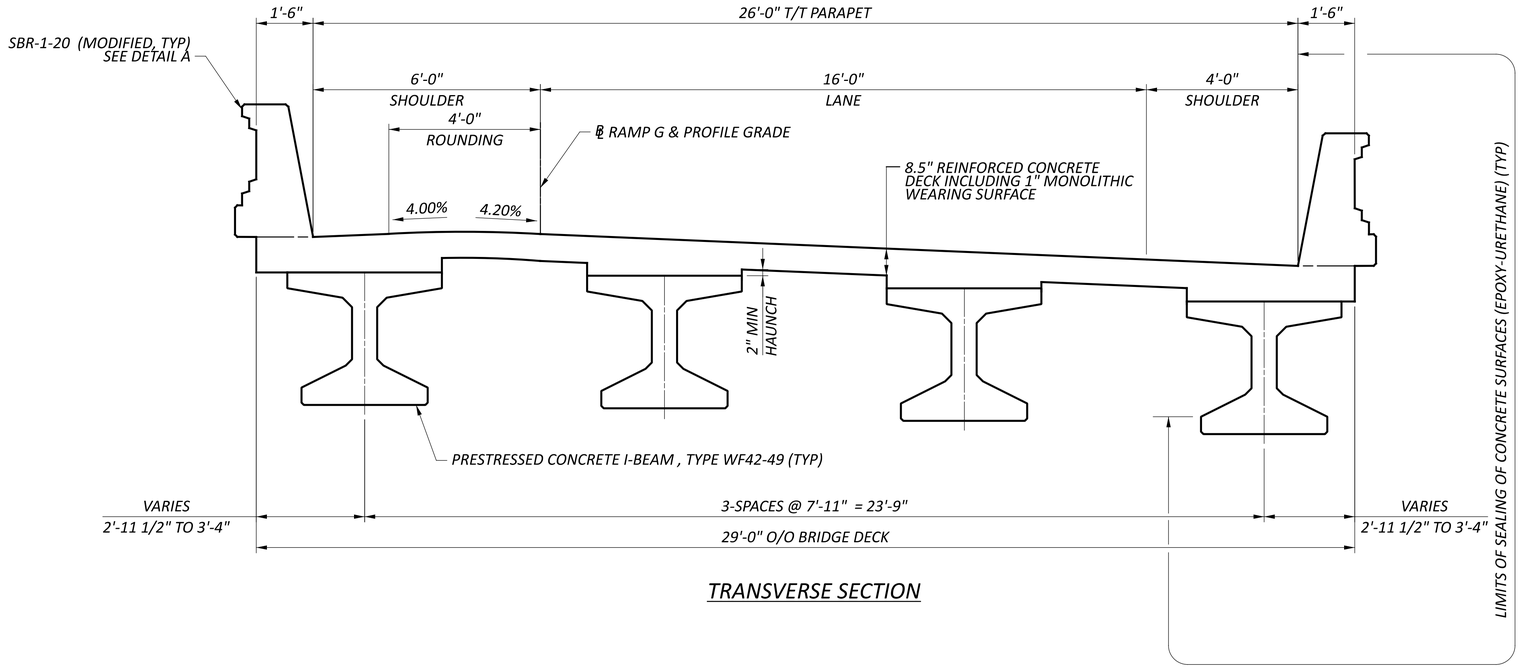
COORDINATES: LATITUDE N 39°07'22.25"
LONGITUDE W 84°32'09.17"

SITE PLAN
BRIDGE NO. HAM-00075-02.391
RAMP G OVER HARRISON ROAD

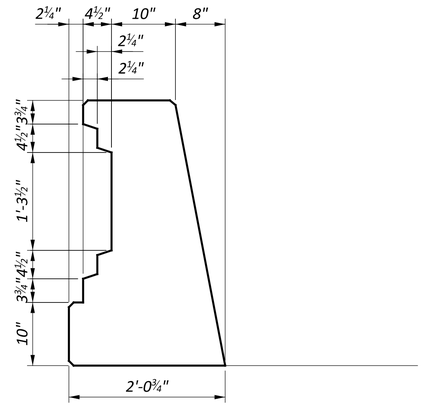
SFN	3109403
DESIGN AGENCY	EM H&T
DESIGNER	AI
CHECKER	JGM
REVIEWER	CAS 06/21/24
PROJECT ID	114161
SUBSET	1
TOTAL	2
SHEET	P.455
TOTAL	463

HAM-75-1.95

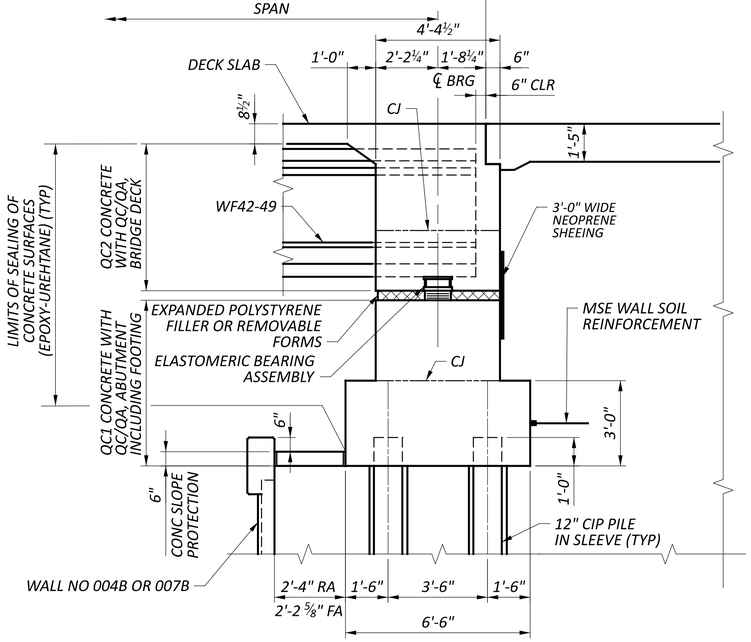
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TRANSVERSE SECTION



DETAIL A



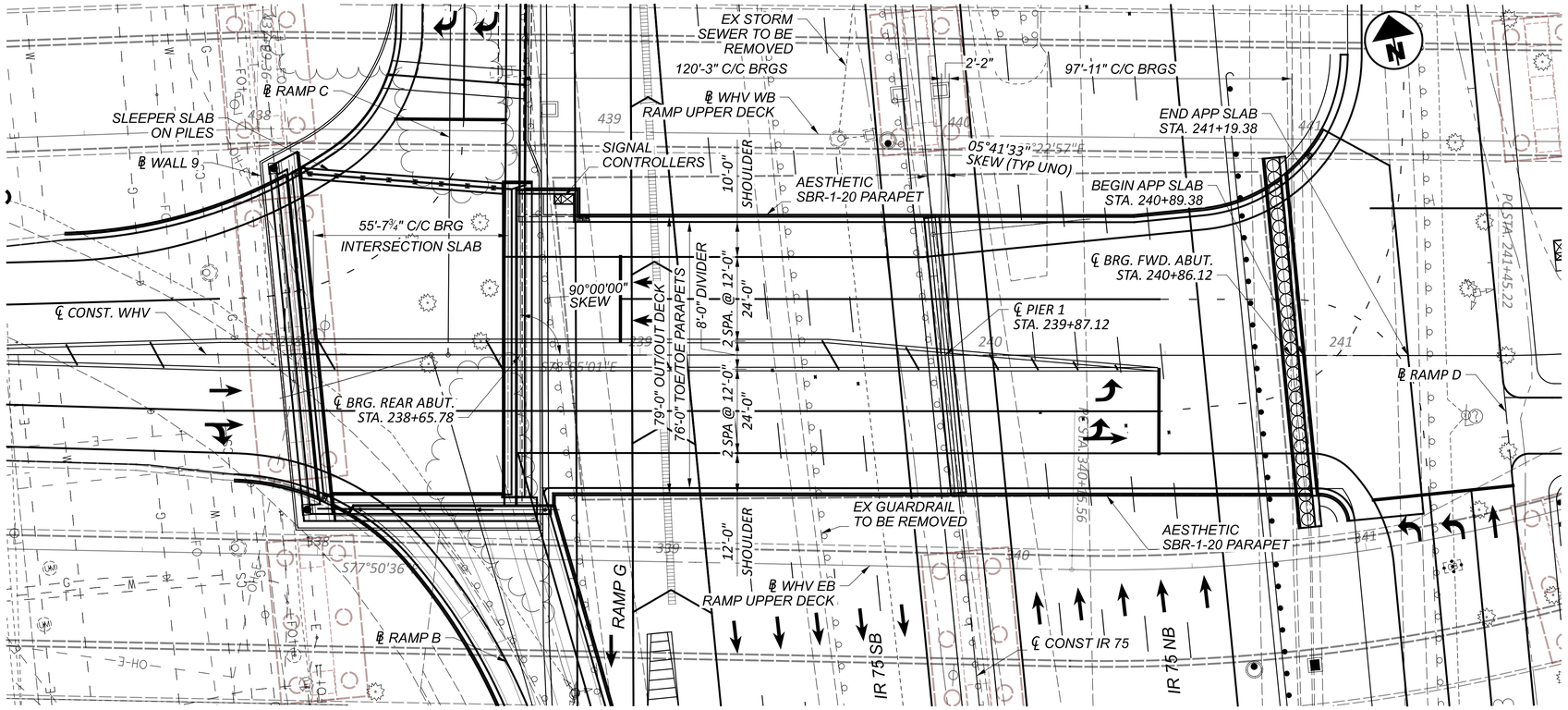
ABUTMENT SECTION

TRANSVERSE SECTION & ABUTMENT SECTION
BRIDGE NO. HAM-00075-02.391
RAMP G OVER HARRISON AVENUE ROAD

SFN	3109403
DESIGN AGENCY	EMH&T
DESIGNER	AI
CHECKER	JGM
REVIEWER	CAS 06/21/24
PROJECT ID	114161
SUBSET	2
TOTAL	2
SHEET	P.456
TOTAL	463

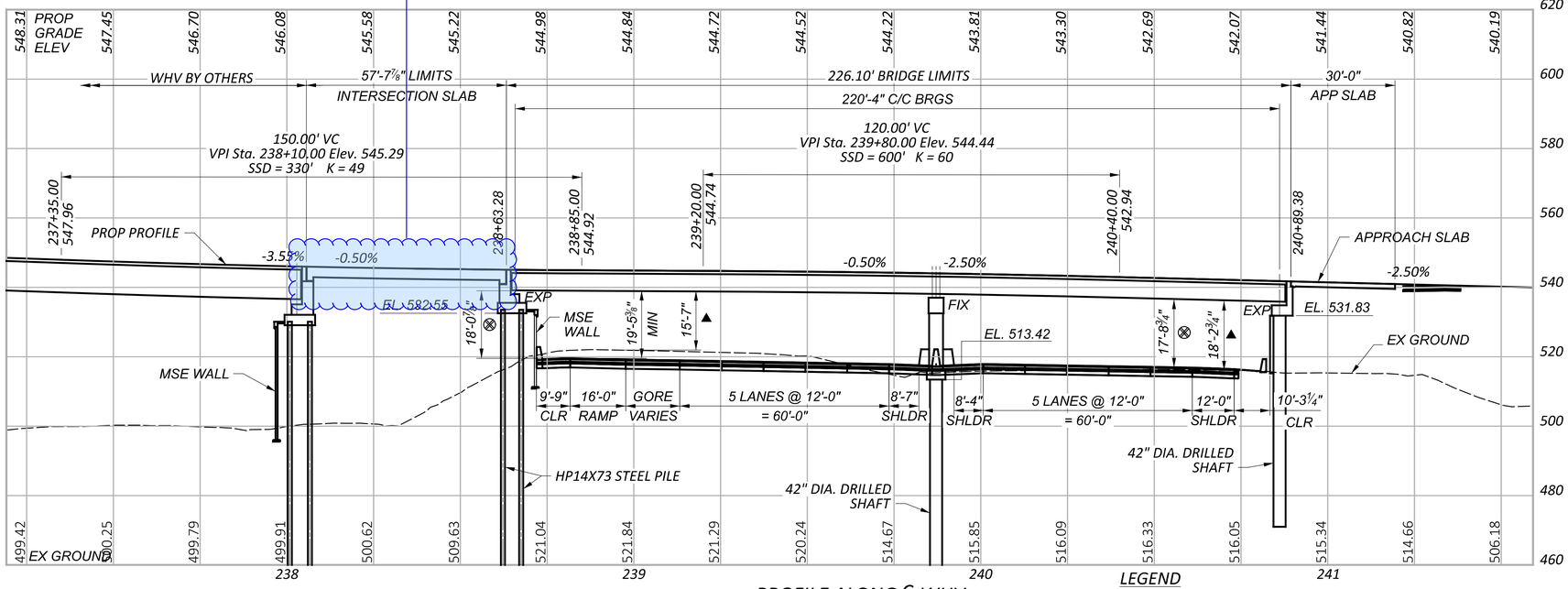
HAM-75-1.95

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PLAN

See slab bridge comments



PROFILE ALONG ℄ WHV

LEGEND

⊗ VERTICAL CLEARANCE TO PROPOSED ROADWAY

▲ TEMPORARY VERTICAL CLEARANCE TO EXISTING ROADWAY

CONTROL POINT DATA*

CP #1 STA.	124+31.09,	ELEV.	501.22,	OFFSET	178.50,	RT
CP #2 STA.	135+03.11,	ELEV.	508.78,	OFFSET	169.34,	RT

* STATIONS AND OFFSETS ARE ALONG ℄ CONST IR 75.

FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET P.3 - P.5 /463

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:

2029 ADT = 22,900 2029 ADTT = 2,519
2049 ADT = 23,350 2049 ADTT = 2,568
DIRECTIONAL DISTRIBUTION = 53%

LEGEND

BORING LOCATION

EXISTING STRUCTURE

TYPE: CONTINUOUS WELDED PLATE GIRDERS WITH NON-COMPOSITE REINFORCED CONCRETE DECK AND SUBSTRUCTURE

SPANS: 46'-7", 78'-1", 73'-1", 117'-8", 78'-7"
ROADWAY: VARIES, 40'-0" F/F OF CURBS MIN.
LOADING: CF-2000 (57)
SKEW: ZERO
WEARING SURFACE: 1" MONOLITHIC CONCRETE
APPROACH SLABS: AS-1-54 (25' LONG)
ALIGNMENT: TANGENT
CROWN: VARIES
STRUCTURE FILE NUMBER: 3105458
DATE BUILT: 1957
DISPOSITION: TO BE REMOVED

PROPOSED STRUCTURE

TYPE: PRESTRESSED CONCRETE I-BEAMS (CONTINUOUS FOR LIVE LOAD) WITH COMPOSITE REINFORCED CONCRETE DECK ON CAP & COLUMN PIER AND STUB ABUTMENTS

SPANS: 120'-3", 97'-11" C/C BRGS
ROADWAY: VARIES, 76'-0" MIN. TOE/TOE PARAPET
LOADING: HL93 AND 60 PSF FUTURE WEARING SURFACE
SKEW: NONE (REAR ABUT), 05° 35' 46" RIGHT FWD (PIER 1 AND FWD ABUT)
WEARING SURFACE: 1" MONOLITHIC CONCRETE
APPROACH SLABS: AS-1-15, AS-2-15 (30'-0" LONG)
ALIGNMENT: TANGENT
CROWN: 0.016 FT/FT
DECK AREA: 17,929 SF
COORDINATES: LATITUDE 39° 07'26.70" N
LONGITUDE 84° 32'08.50" W

SITE PLAN
BRIDGE NO. HAM-75-XXXX
WESTERN HILLS VIADUCT OVER IR-75

SFN XXXXXXX

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
MTO	VDT

REVIEWER EFD 06/21/24

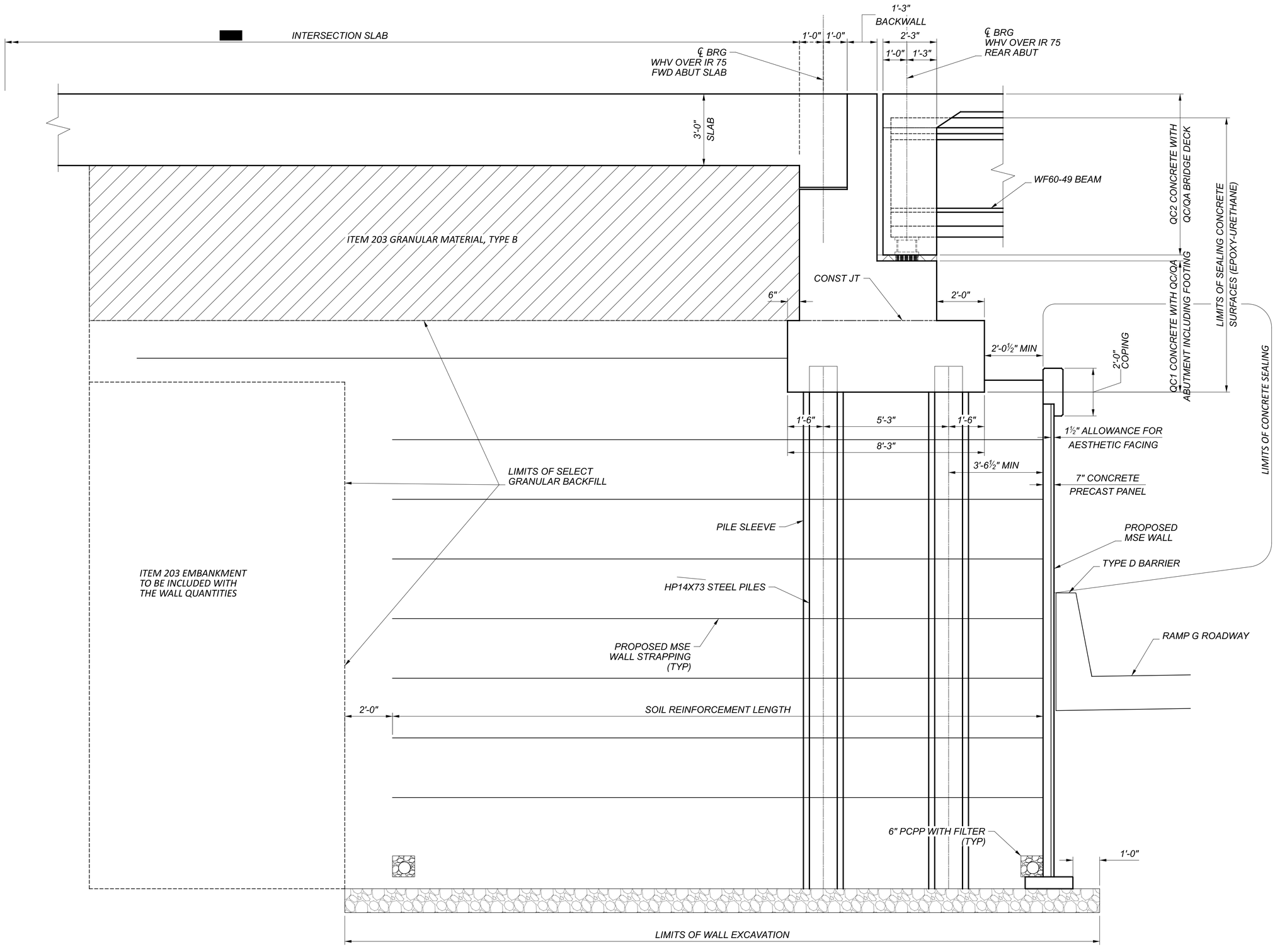
PROJECT ID 114161

SUBSET	TOTAL
1	7

SHEET	TOTAL
P.457	463

HAM-75-1.95

PLOT DRIVER: OHDOT_PDF.pltcfg PENTABLE: 114161_BW.tbl
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ABUTMENT SECTION

REAR ABUTMENT DETAILS
BRIDGE NO. HAM-75-XXXX
WESTERN HILLS VIADUCT OVER IR-75

SFN
XXXXXXX

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
MTO	VDT

REVIEWER
EFD 06/21/24

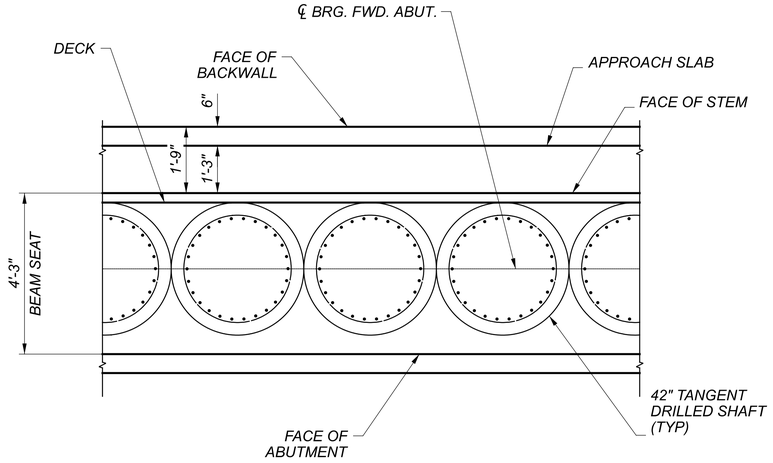
PROJECT ID
114161

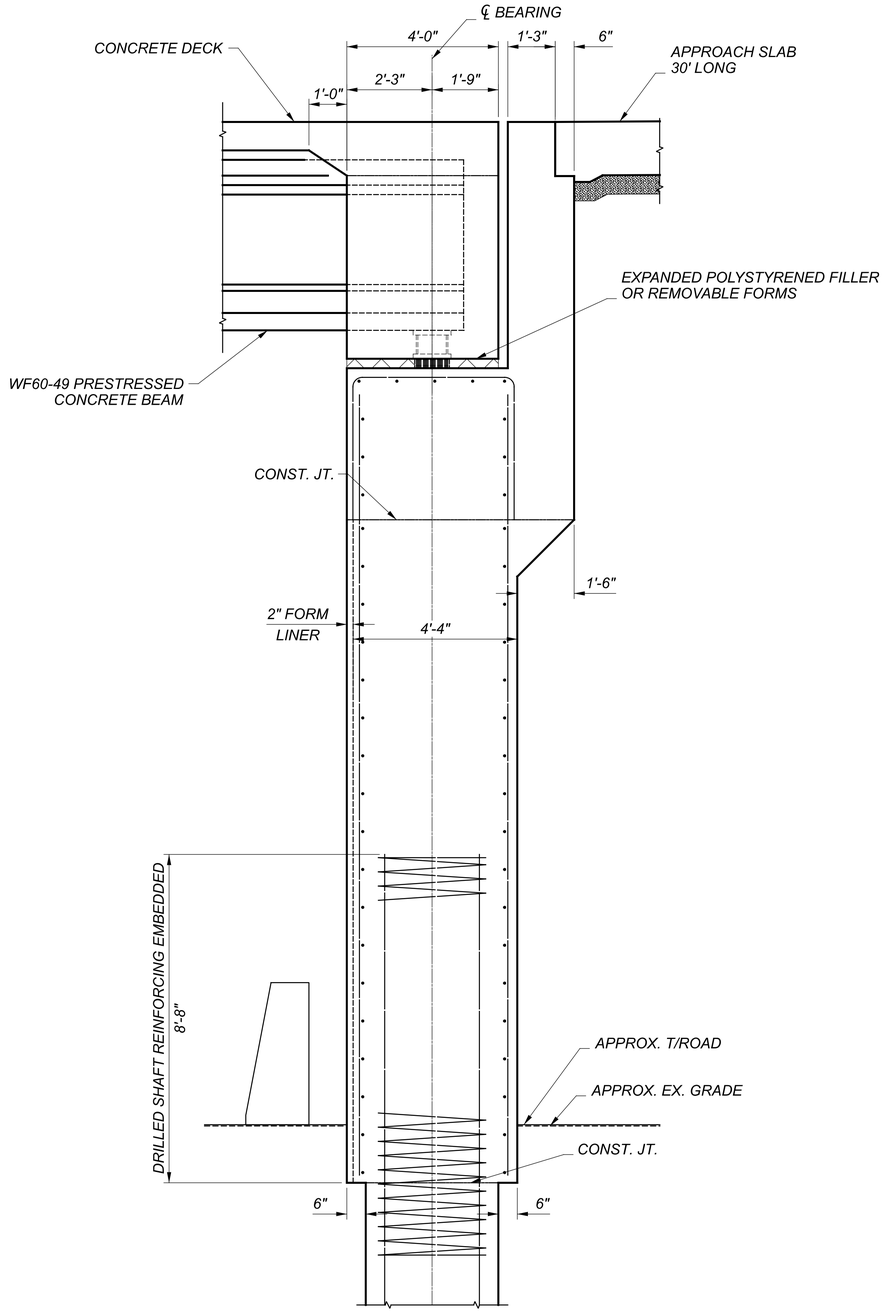
SUBSET	TOTAL
2	7

SHEET	TOTAL
P.458	463

HAM-75-1.95

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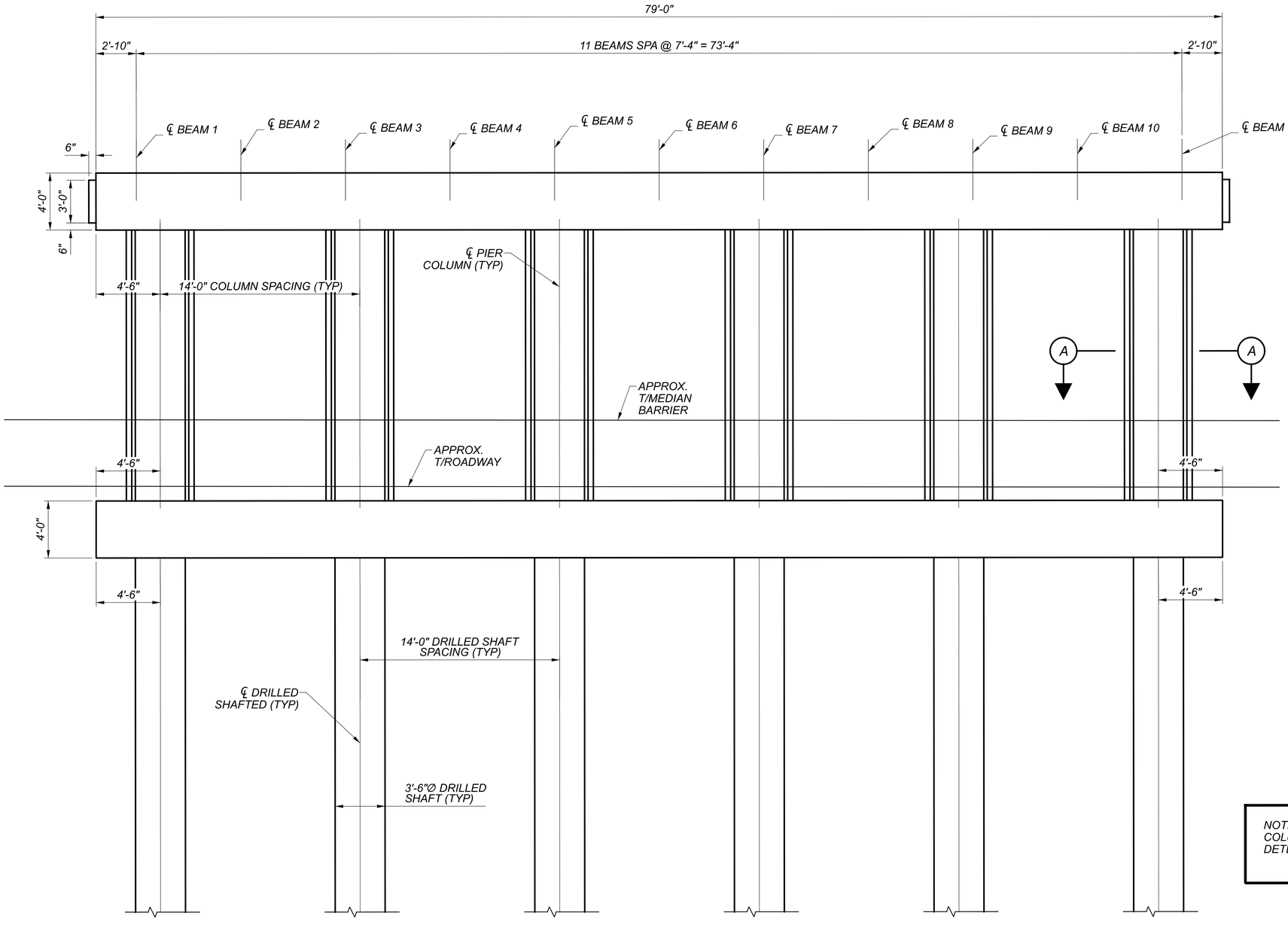




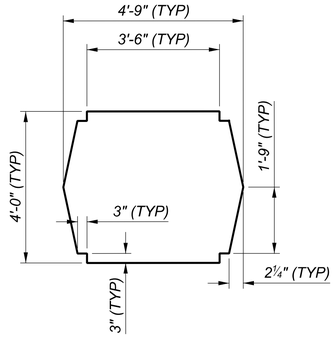
FORWAR ABUTMENT DETAILS
BRIDGE NO. HAM-75-XXXX
WESTERN HILLS VIADUCT OVER IR-75

SFN	XXXXXXX
DESIGN AGENCY	GANNETT FLEMING, 2300 Corporate Exchange Dr., Suite 200, Columbus, OH 43231
DESIGNER	MTO
CHECKER	VDT
REVIEWER	EFD 06/21/24
PROJECT ID	114161
SUBSET	3
TOTAL	7
SHEET	P.459
TOTAL	463

HAM-75-1.95 PENTABLE SUBSET: 1 SUBMITTAL: SUB_STG PLOT DRIVER: OHDOT_PDF.pltcfg PENTABLE: 114161_BW.tbl
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PIER ELEVATION



SECTION A-A
(TYPICAL FOR ALL PIER COLUMNS)

NOTE TO REVIEWER: THE TRANSITION FROM SHAFT TO COLUMN WILL BE REVIEWED DURING STAGE 2 DESIGN TO DETERMINE IF THE FOOTING CAN BE ELIMINATED.

PIER ELEVATION
BRIDGE NO. HAM-75-XXXX
WESTERN HILLS VIADUCT OVER IR-75

SFN XXXXXXX

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
MTO	VDT

REVIEWER: EFD 06/21/24

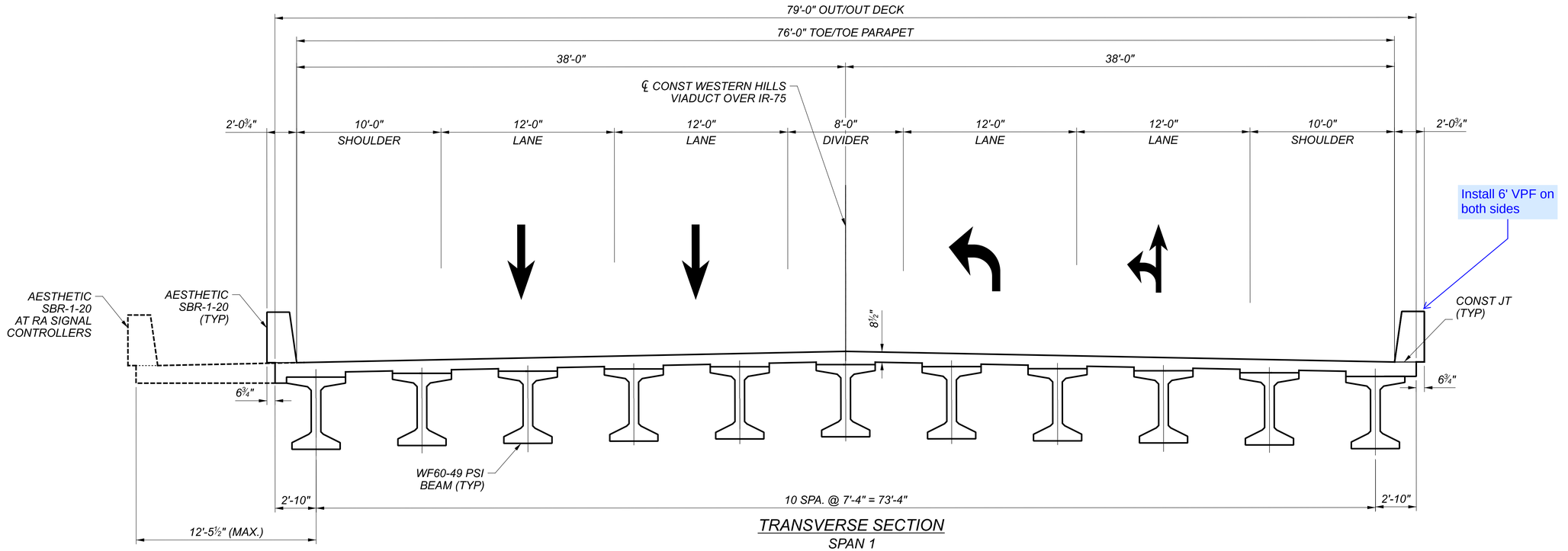
PROJECT ID: 114161

SUBSET	TOTAL
4	7

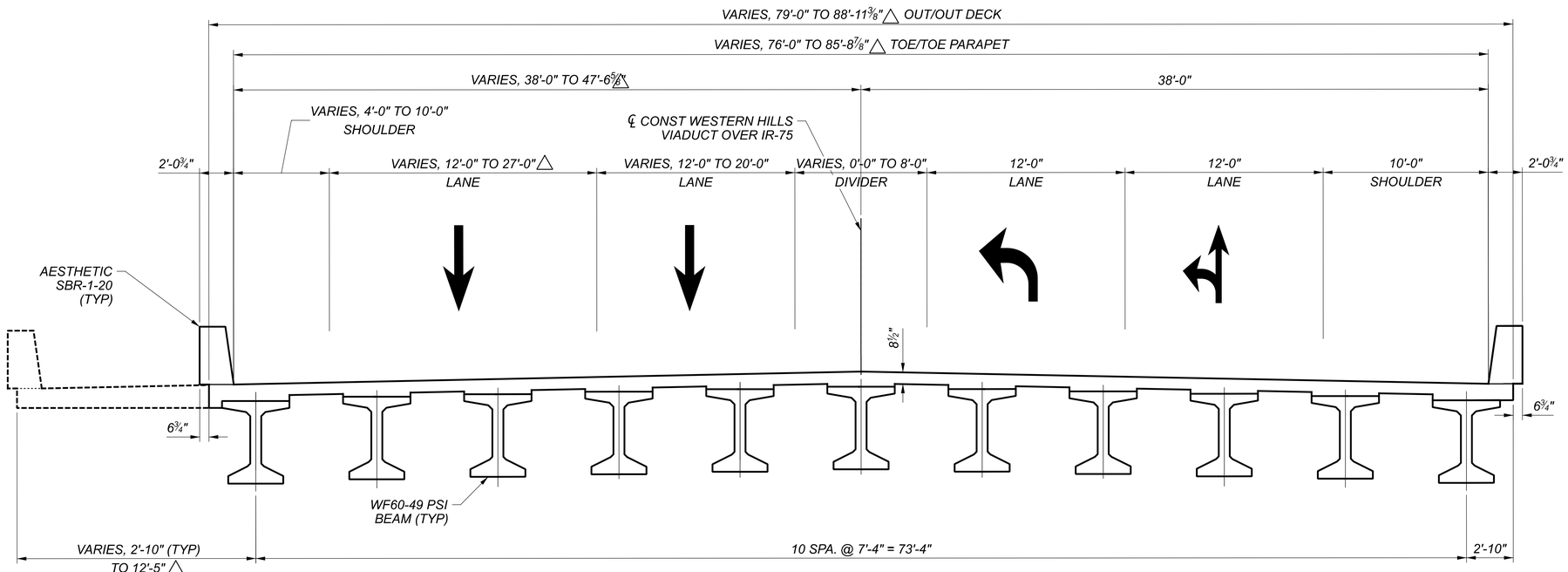
SHEET	TOTAL
P.460	463

HAM-75-1.95

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TRANSVERSE SECTION
SPAN 1



TRANSVERSE SECTION
SPAN 2

LEGEND

△ - *MEASURED ALONG ℄ OF BEARING OF FORWARD ABUTMENT*

TRANSVERSE SECTION
BRIDGE NO. HAM-75-XXXX
WESTERN HILLS VIADUCT OVER IR-75

SFN XXXXXXX

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 300
Columbus, OH 43231

DESIGNER	CHECKER
MTO	VDT

REVIEWER: EFD 06/21/24

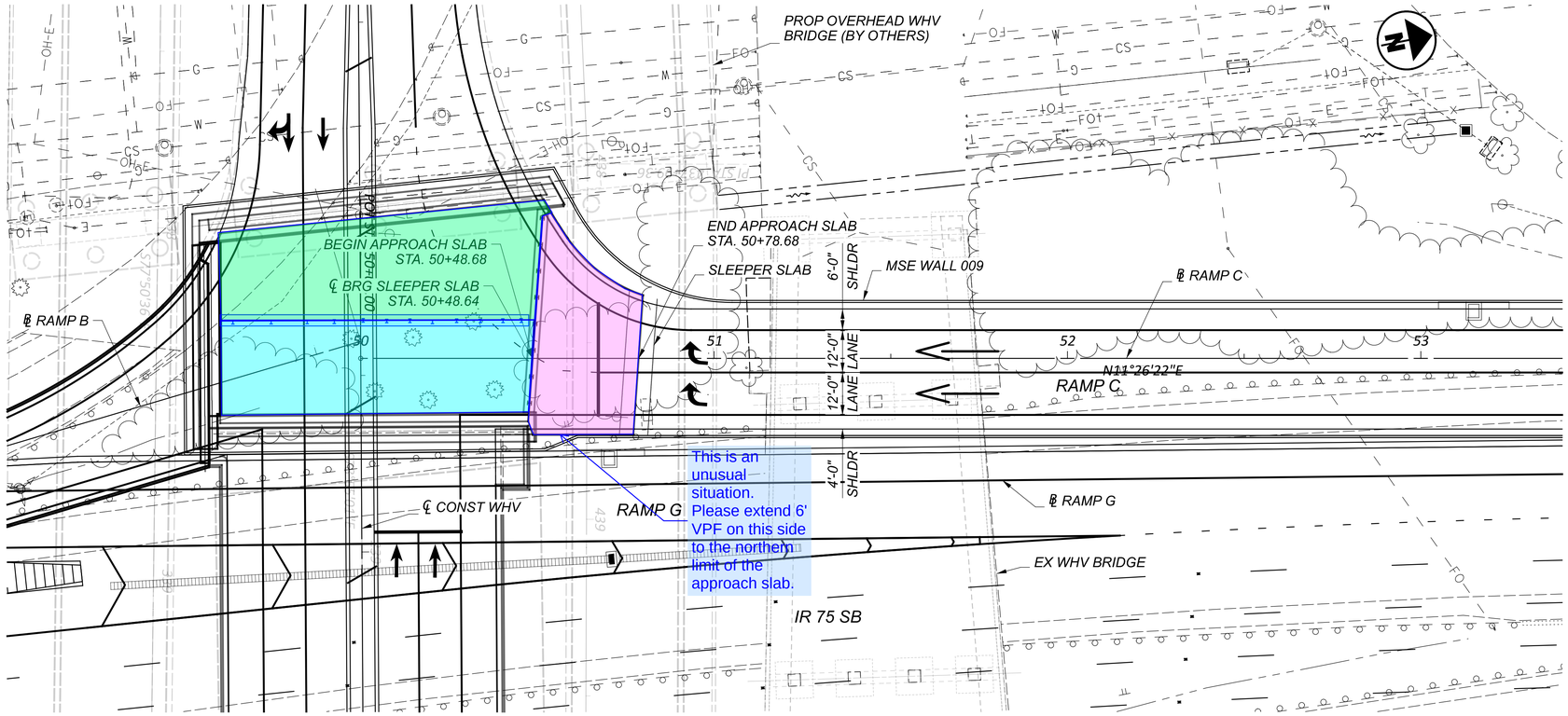
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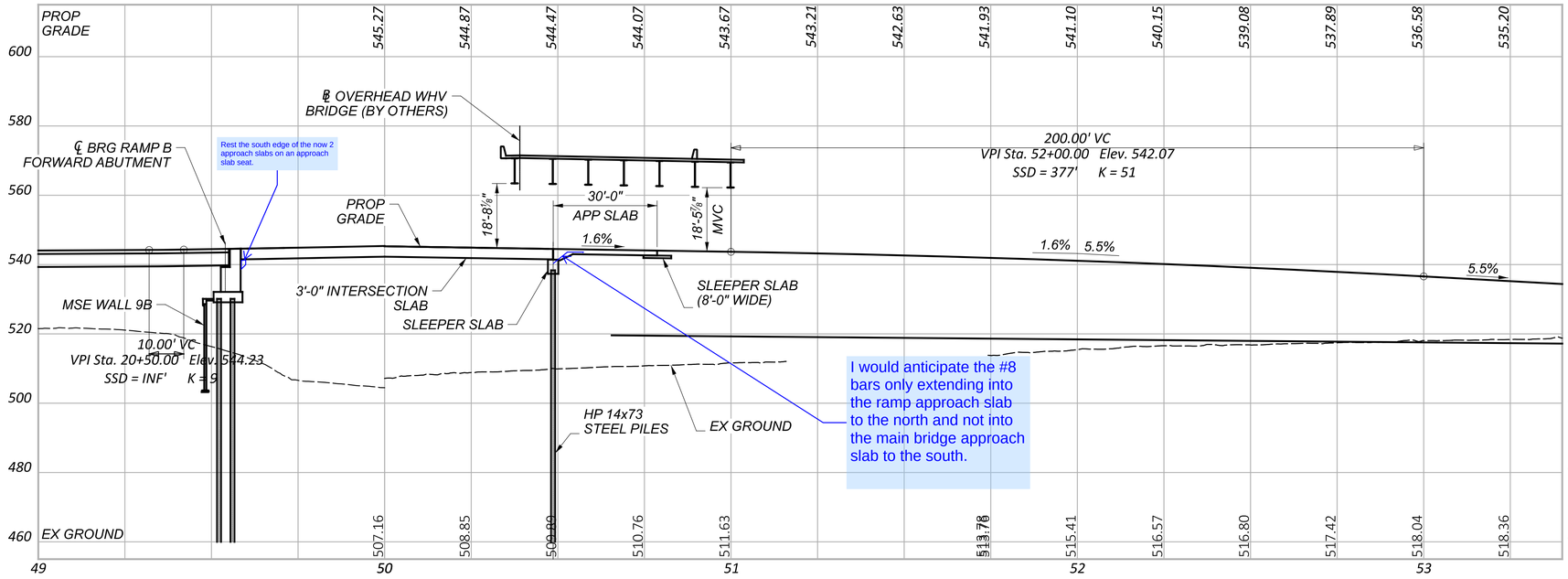
SUBSET	TOTAL
5	7

SHEET	TOTAL
P.461	463

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PROFILE ALONG ℄ RAMP C

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 PLAN SHEET

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:

2029 ADT = 9,094 2029 ADTT = 455
2049 ADT = 9,180 2049 ADTT = 459
DIRECTIONAL DISTRIBUTION = 100%

LEGEND

BORING LOCATION

I appreciating the designers laying out the single span slab option, but calculating the approximate deflection of the slab as the fill settles using using CMS 508.02 0.000018S^3, the amount settlement is too high for this intersection. As such I would like to revert back to the concept that led to the 60' slab which was two opposing approach slabs on a sleeper slab being supported on piles. I highlighted the non-typical configuration of approach slabs on the left that should provide good service in this busy intersection while the MSE fills settle over time.

SITE PLAN
BRIDGE NO. HAM-75-XXXX
IR 75 SOUTHBOUND OFF RAMP (RAMP C) TO WHV

SFN XXXXXXX

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
SAT	MTO

REVIEWER
EFD 06/21/24

PROJECT ID
114161

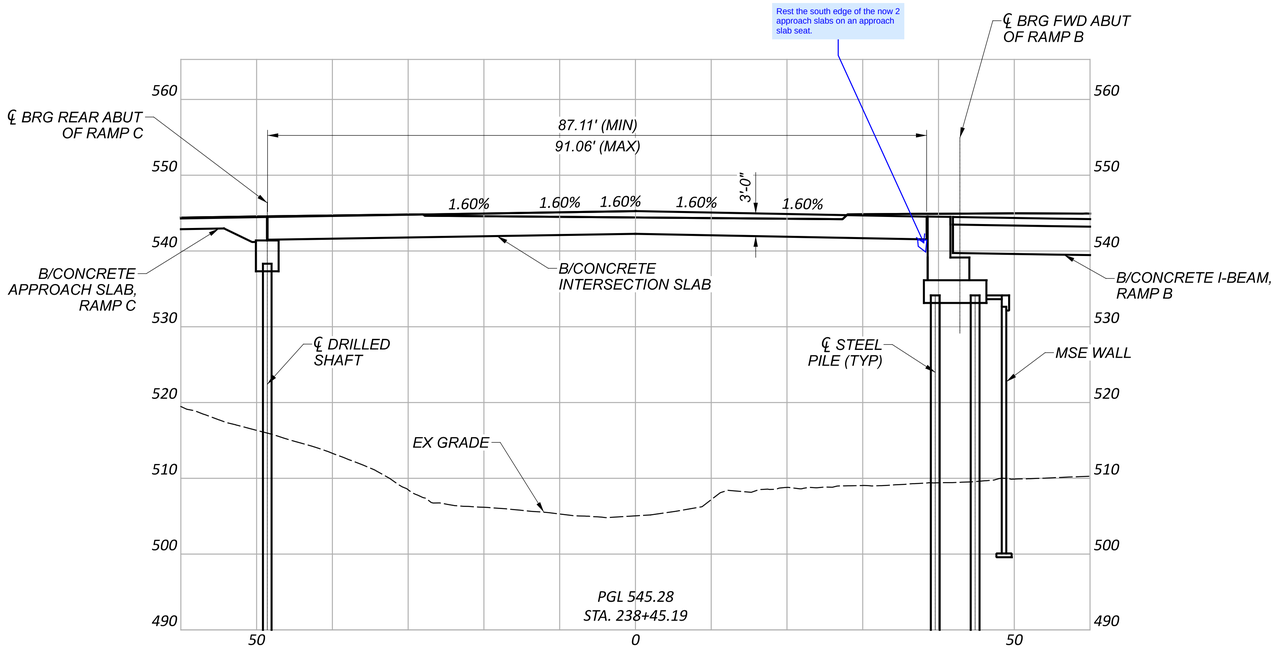
SUBSET	TOTAL
6	7

SHEET	TOTAL
P.462	463

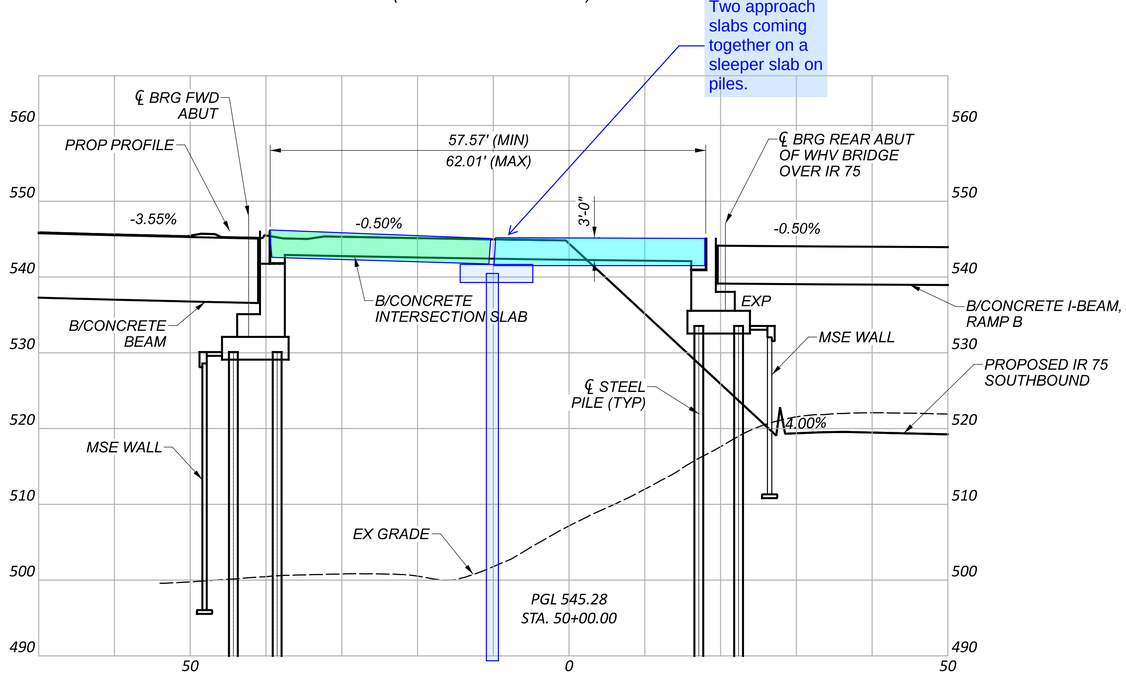
HAM-75-1.95

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SECTION AT ℄ CONST WHV
(LOOKING UPSTATION)



SECTION AT ℄ RAMP C
(LOOKING UPSTATION)

INTERSECTION SLAB DETAILS
BRIDGE NO. HAM-75-XXXX
IR 75 SOUTHBOUND OFF RAMP (RAMP C) TO WHV

SFN
XXXXXXX

DESIGN AGENCY
GANNETT FLEMING
2500 Corporate Exchange Dr.
Suite 200
Columbus, OH 43231

DESIGNER	CHECKER
SAT	MTO

REVIEWER
EFD 06/21/24

PROJECT ID
114161

SUBSET	TOTAL
7	7

SHEET	TOTAL
P.463	463

HAM-75-1.95

PENTABLE SUBSET: 1 SUBMITTAL: SUB_STG PLOT DRIVER: OHDOT_PDF.pltcfg PENTABLE: 114161_BW.tbl

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