STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
CUY-77-15.46/VAR DECKS
CITY OF CLEVELAND
CUYAHOGA COUNTY



LOCATION MAP

LATITUDE: 41°29'30" N LONGITUDE: 81°40'20"W

N

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

DESIGN DESIGNATION

	IR 77
CURRENT ADT (2025)	59000
DESIGN YEAR ADT (2045)	62000
DESIGN HOURLY VOLUME (2045)	5580
DIRECTIONAL DISTRIBUTION	60%
TRUCKS (24 HOUR B&C)	7%
T_D	9%
DESIGN SPEED	55 MPH
LEGAL SPEED	50 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	URBAN ARTERIAL INTERSTATE
NHS PROJECT	YES

DESIGN EXCEPTIONS

DESIGN FEATURE:	APPROVAL DATES	SHEET NUMBERS
SHOULDER WIDTH	02-04-25	10-15
SHOULDER WIDTH	02-04-25	16

ADA DESIGN WAIVERS

NONE REQUIRED

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

ENGINEER'S SEAL
ROADWAY, MOT, DRAINAGE, TRAFFIC CONTROL
STATE OF OHIO · PATRICK SCHWAN · E-61571 · PROFESSIONAL ENGINEER · REGISTERED

ENGINEER'S SEAL
STRUCTURE CUY-77-15.46
STRUCTURE CUY-77-15.75
STATE OF OHIO · DAVID RINEHART · E-55967 · PROFESSIONAL ENGINEER · REGISTERED

ENGINEER'S SEAL
LIGHTING
STATE OF OHIO · CAROLINE DUFFY · E-58016 · PROFESSIONAL ENGINEER · REGISTERED

ENGINEER'S SEAL
STRUCTURE CUY-77-15.62
STATE OF OHIO · MICHAEL MALLOY · E-60048 · PROFESSIONAL ENGINEER · REGISTERED

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RICHLAND ENGINEERING LTD
A WALLACEPANCHER GROUP COMPANY
29 NORTH PARK STREET
MANSFIELD OHIO 44902
PHONE: (419) 524-0074
www.wallacepancher.com

PLAN PREPARED BY:
E.L. ROBINSON ENGINEERING
143 Engineers

FEDERAL PROJECT NUMBER

E230 (831)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF REPLACEMENT OF DETERIORATED BRIDGE DECKS OVER WOODLAND AVENUE, EAST 22nd STREET, AND EAST 14th STREET IN THE CITY OF CLEVELAND, INCLUDING MINOR APPROACH PAVEMENT, GRADING, LIGHTING, AND TRAFFIC CONTROL.

PROJECT LENGTH = 0.34 MILES.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	2.0 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	1.3 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A (NOI NOT REQUIRED)*

* ROUTINE MAINTENANCE PROJECT

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.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF IR 77 EXCEPT FOR THE RAMPS AT WOODLAND AVE., E. 22nd ST., AND E. 14th ST. AS DESCRIBED ON SHEETS 94-107 AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

STANDARD CONSTRUCTION DRAWINGS

BP-2.1	1-21-22	MGS-2.1	7-18-25	TC-64.10	7-21-23	MT-101.70	7-19-24	DM-1.1	1-17-25	AS-1-15	1-20-23	800-2023	7-18-25						
BP-3.1	1-19-24	MGS-3.1	7-18-25	TC-65.10	1-17-14	MT-101.75	7-21-23	DM-1.2	1-17-25	AS-2-15	7-21-23	807	1-17-25						
BP-5.1	7-18-25	MGS-3.2	7-18-25	TC-65.11	1-17-25	MT-101.80	1-17-20	DM-1.3	7-18-14	EXJ-4-87	1-19-24	821	4-20-12						
BP-9.1	1-18-19	MGS-4.2	7-18-25	TC-71.10	7-18-25	MT-102.10	7-21-23	DM-4.1	7-17-20	GSD-1-19	7-19-24	825	7-19-24						
BP-9.2	1-15-21	MGS-4.3	7-18-25	TC-72.20	7-18-25	MT-102.20	4-19-19	DM-4.3	1-15-16	PCB-91	7-17-20	832	7-18-25						
		MGS-6.1	1-19-18	TC-74.10	7-21-23	MT-102.30	10-16-15	DM-4.4	1-15-16	SBR-1-20	7-19-24	836	1-19-24						
RM-1.1	1-20-23					MT-103.10	7-18-25			SBR-2-20	7-19-24	850	7-21-23						
RM-4.2	7-18-25	TC-15.116	1-19-24	MT-95.30	7-19-19	MT-105.10	1-17-20	HL-40.10	7-19-24			896	7-21-17						
RM-4.3	7-18-25	TC-21.11	7-16-21	MT-95.31	7-19-19	MT-110.10	7-19-13	HL-40.20	7-18-25			902	7-19-19						
RM-4.4	1-17-25	TC-21.50	1-17-25	MT-95.32	4-19-19			HL-60.11	7-21-17			921	7-19-24						
RM-4.5	7-18-25	TC-22.10	1-17-25	MT-95.40	7-21-23	CB-1	7-19-24	HL-60.12	7-21-23										
RM-4.6	7-18-25	TC-22.20	1-17-14	MT-95.41	7-21-23	CB-3	7-19-24	HL-60.21	7-20-18										
RM-4.7	1-17-25	TC-41.20	10-18-13	MT-95.45	7-21-23	CB-3A	7-19-24												
		TC-41.30	4-21-23	MT-95.50	7-21-17	CB-5	7-19-24												
LA-1.1	10-15-10	TC-42.20	10-18-13	MT-98.29	1-17-20														
		TC-52.10	10-18-13	MT-98.30	7-16-21	I-3C1	1-17-25												
HW-2.1	7-15-22	TC-52.20	1-15-21	MT-99.20	4-19-19														
HW-2.2	7-20-18	TC-61.10	4-21-23	MT-99.30	1-17-20	MH-1	7-15-22												
		TC-61.30	7-19-24	MT-99.60	7-19-24	MH-3	7-19-24												
				MT-101.60	1-17-25														

1

1	10/13/25	ADD SCD DM-1.3, RESPACE/ CHANGE BARRIER TYPE TO C1

John Picuri, P.E., P.S.
District 12 Deputy Director

Pamela Boratyn
Director, Department of Transportation

TITLE SHEET

DESIGN AGENCY

DESIGNER PRS
REVIEWER ALP 7-28-25
PROJECT ID 119380
SHEET P.1 TOTAL 365

CUY-77-15.46/VAR

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SCHEMATIC PLAN
STA. 62+50.00 TO STA. 83+00.05

HORIZONTAL SCALE IN FEET
0 50 100 200

BEGIN PROJECT
STA. 63+57.57
S.L.M. = 15.37
E230 (831)

END PROJECT
STA. 83+00.05
℄ CONST. IR 77
STA. 1+96.29
℄ CONST. RAMP E-17
S.L.M. = 15.81
℄ CONST. IR 77
E230 (831)

BRIDGE NO. CUY-77-15.75
IR 77 OVER E. 14th ST.

BRIDGE NO. CUY-77-15.62
IR 77 OVER E. 22nd ST.

BRIDGE NO. CUY-77-15.46
IR 77 OVER WOODLAND AVE.

BRIDGE NO. CUY-00077-15930-L

BRIDGE NO. CUY-00077-15750-SN

BRIDGE NO. CUY-00090-16510

BRIDGE NO. CUY-00090-16400

BRIDGE NO. CUY-00077-15970L

END WORK
STA. 13+98.00
℄ CONST. RAMP E-10

END WORK
STA. 7+84.00
℄ CONST. RAMP E-17

STA. 62+50.00 ℄ CONST. RAMP F-4 MATCH LINE STA. 62+50.00 ℄ CONST. RAMP F-3 ℄ EXIST. RAMP F-4

STA. 3+76.00 ℄ CONST. RAMP F-3 BEGIN PLANING AND RESURFACING

STA. 74+68.59 ℄ CONST. IR 77 = STA. 1+77.79 ℄ CONST. E. 22nd ST.

STA. 81+34.69 ℄ CONST. IR 77 = STA. 5+95.20 ℄ CONST. E. 14th ST.

STA. 66+55.18 ℄ CONST. IR 77 = STA. 5+05.26 ℄ CONST. US 422 WB (WOODLAND AVE.)

STA. 109+71.52, 55.42' RT. ℄ CONST. RAMP F-4

STA. 63+79.10 ℄ CONST. IR 77 = POT STA. 109+71.52'

STA. 109+34.36 (R-6N)PT

STA. 63+57.57 END PLANING AND RESURFACING

STA. 63+57.57 BEGIN FULL DEPTH PAVEMENT

STA. 68+93.81 END FULL DEPTH PAVEMENT

STA. 68+93.81 BEGIN PLANING AND RESURFACING

STA. 73+00.00 END PLANING AND RESURFACING

STA. 73+00.00 BEGIN FULL DEPTH PAVEMENT

STA. 76+27.00 END FULL DEPTH PAVEMENT

STA. 76+27.00 BEGIN PLANING AND RESURFACING

STA. 79+75.00 END PLANING AND RESURFACING

STA. 79+75.00 BEGIN FULL DEPTH PAVEMENT

STA. 82+70.38 END FULL DEPTH PAVEMENT

STA. 82+70.38 BEGIN PLANING AND RESURFACING

STA. 82+96.33 ℄ CONST. IR 77 = PT STA. 17+41.98, 32.00' LT. ℄ CONST. RAMP E-10 (R-17)

STA. 14+00.00 ℄ CONST. RAMP E-10 END PLANING AND RESURFACING

STA. 6+21.99 ℄ CONST. RAMP E-17= STA. 0+00.00, 8.99' LT. ℄ CONST. RAMP E-9

STA. 1+17.86 ℄ CONST. RAMP E-9 END PLANING AND RESURFACING

STA. 7+81.41 ℄ CONST. RAMP E-17 END PLANING AND RESURFACING

STA. 83+00.05 ℄ CONST. IR 77 = STA. 4.75' RT. = STA. 1+96.29 ℄ CONST. RAMP E-17

STA. 3+13.10 ℄ CONST. RAMP E-14 END PLANING AND RESURFACING

STA. 75+17.38, ℄ CONST. IR 77 = PC STA. 0+00.00, 44.00' RT. ℄ CONST. RAMP E-14 (R-7)

STA. 81+00.00 ℄ CONST. IR 77 = PC STA. 0+00.00, 32.00' RT. ℄ CONST. RAMP E-17 (R-9)

STA. 75+17.38 ℄ CONST. IR 77 = PC STA. 0+00.00, 44.00' RT. ℄ CONST. RAMP E-14 (R-7)

STA. 75+25.88

STA. 4+09.99 BK = STA. 3+74.99 AH

STA. 10+52.42

STA. 3+74.99

STA. 9+22.33 POT (W-2)

STA. 0+00.00

STA. 3+74.99

STA. 3+66.67

PT STA. 3+66.67 (R-4)

PI STA. 5+03.87

PC STA. 7+95.00

(R-6)PC STA. 7+95.00

(R-4)POT STA. 0+00.00

(R-5)PT STA. 10+52.42

(R-6N)PT STA. 109+34.36

(R-6)PT STA. 109+71.52

(R-8)PT STA. 6+16.79

(R-8)PC STA. 2+97.37

PCC STA. 2+97.37 (R-7)PT (R-8)PC

(77-5)PC STA. 75+25.88

(R-12)POT STA. 13+98.35

(R-12) PC STA. 13+98.35

(77-5)POT STA. 83+25.00

(R-13) POT STA. 0+00.00

(R-9)PT (R-10)PC PCC STA. 6+21.14

(R-10)PT (R-11)PC PCC STA. 8+49.95

(R-11) PT STA. 11+14.37

(R-13)PT (R-14)PC PCC STA. 3+81.96

POT STA. 11+54.83

(R-16)PC STA. 5+06.54

(R-16)PT (R-17)PC PCC STA. 9+90.07

(R-14) PT STA. 4+50.38

(R-15)PT STA. 1+62.86

POT STA. 7+81.64

POT STA. 7+09.01

(R-15)POT

CURVE W-1

CURVE W-2

CURVE R-4

CURVE R-6

CURVE R6-N

CURVE R-7

CURVE 77-5

CURVE R-8

CURVE R-9

CURVE R-10

CURVE R-11

CURVE R-13

CURVE R-14

CURVE R-15

CURVE R-17

N 75° 10' 09" W ORANGE AVE.

N 74° 57' 27" W

N75°09'47"W

N14°51'13"W

N14°51'21"E

N75°09'47"W

S14°50'13"W

S15°33'30"W

N06°28'43"E

S65°03'27"W

N55°21'16"E

S11°01'12"W

108°2'35"

90°00'00"

34°00'00"

WOODLAND AVE.

ORANGE AVE.

E. 22nd ST.

E. 14th ST.

E. 9th ST.

COMMUNITY COLLEGE AVE.

℄ CONST. US 422 WB (WOODLAND AVE.)

℄ CONST. IR 77 N75°09'47"W

℄ R/W ORANGE AVE.

℄ R/W WOODLAND AVE.

℄ CONST. E. 22nd ST.

℄ CONST. E. 14th ST.

℄ R/W E. 9th ST.

℄ COMMUNITY COLLEGE AVE.

℄ CONST. RAMP E-10

℄ CONST. RAMP E-14

℄ CONST. RAMP E-17

℄ CONST. RAMP E-9

℄ CONST. RAMP E-10

℄ EXIST. IR 90

RAMP A-3

RAMP E-8

RAMP E-9

CURVE R-16

Ex R/W

Ex LA

Ex LA-R/W

Ex R/W-

OH-C-Hdl Comb

PI 60+19.55

1	10/13/25	SHOW EX. DRAINAGE/REVISE UNDERDRAIN

LEGEND

- PLANING AND RESURFACING
- SLOPE EROSION PROTECTION
- CONCRETE SLOPE PROTECTION

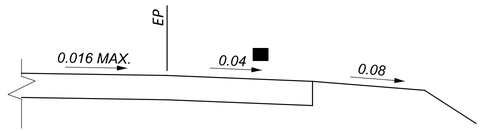
NOTES:
1. REFER TO THE SURVEYING PARAMETERS NOTE IN THE GENERAL NOTES FOR PROJECT CONTROL INFORMATION.
2. SEE SHEET 6 FOR HORIZONTAL CURVE DATA.
3. EXISTING RIGHT OF WAY DEPICTED FROM:
   EXISTING CUYAHOGA COUNTY SHAPE FILES
   CUY-90-16.28
   CUY-42-18.29
   CUY-21-15.32/CUY-42-18.42
   CUY-21-13.77/14.94

DESIGN AGENCY

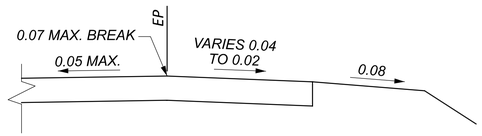
DESIGNER PRS
REVIEWER ALP 7-28-25
PROJECT ID 119380
SHEET P.5 TOTAL 365

CUY-77-15.46

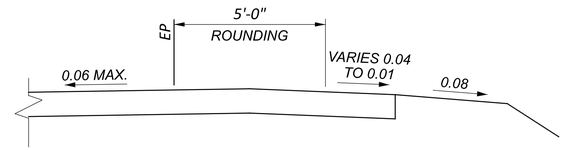
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NORMAL AND LOW SIDE SHOULDER DETAIL



HIGH SIDE SHOULDER DETAIL



HIGH SIDE SHOULDER DETAIL RESURFACING /
PROPOSED FULL DEPTH SECTION NORTH OF E. 22nd ST.

STA. 75+98.47 TO STA. 77+11.00 SB IR 77
STA. 14+00.00 TO STA. 17+41.98 RAMP E-10

SYMBOL LEGEND

■ OR RATE OF SUPER IF GREATER. SEE SUPERELEVATION TABLE FOR ADDITIONAL INFORMATION.

ITEM LEGEND

1. 442 - 1½" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446), PG 76-22M, AS PER PLAN
2. 407 - NON-TRACKING TACK COAT (FOR PROPOSED SURFACE) (APPLICATION RATE 0.06 GAL./S.Y.)
3. 442 - 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)
4. 302 - 11¾" ASPHALT CONCRETE BASE, PG64-22, (449) (TWO LIFTS)
5. 304 - 6" AGGREGATE BASE
6. 204 - SUBGRADE COMPACTION
7. 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C1 (1)
8. 254 - PAVEMENT PLANING, ASPHALT CONCRETE (VARIABLE THICKNESS = 0" TO 3", 1½" NORMAL)
9. 605 - 6"*BY TYPE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC
10. 526 - REINFORCED CONCRETE APPROACH SLABS (T=15") AS PER PLAN (SEE STRUCTURE PLANS)
11. 209 - LINEAR GRADING, AS PER PLAN
12. 407 - NON-TRACKING TACK COAT (FOR MILLED SURFACE) (APPLICATION RATE 0.09 GAL./S.Y.)
13. 441 - 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN
14. 606 - GUARDRAIL, TYPE MGS
15. 609 - CURB, TYPE 6
16. 608 - 4" CONCRETE WALK
17. 209 - RESHAPING UNDER GUARDRAIL, AS PER PLAN
18. 617 - 3" COMPACTED AGGREGATE, AS PER PLAN
19. 609 - CURB, TYPE 4-C

1	10/13/25	MODIFY BARRIER DESCRIPTION

LEGEND

*UNDERDRAIN TYPES INCLUDE: BASE PIPE (18" DEPTH)
SHALLOW PIPE (30" DEPTH)
UNCLASSIFIED PIPE (VARIABLE DEPTH)

NOTES:

1. FOR EXISTING ITEM LEGEND SEE SHEET 7 .
2. FOR EDGE COURSE DESIGN DETAIL SEE SHEET 11 .

PROPOSED TYPICAL SECTIONS

DESIGN AGENCY

DESIGNER DAW

REVIEWER ALP 7-28-25

PROJECT ID 119380

SHEET P.9 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/17/2025 TIME: 8:55:25 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@manniksmithgroup.com WORKSPACE: OHDOTCEv02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
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EXISTING AND PROPOSED DRAINAGE FOR CONSTRUCTION PHASES

DRAINAGE ITEMS MAY EXTEND THROUGH MULTIPLE CONSTRUCTION PHASES. ALL EXISTING AND PROPOSED DRAINAGE ITEMS SHALL BE PROVIDED WITH A POSITIVE OUTLET AT ALL TIMES AS APPROVED BY THE ENGINEER. ALL MATERIALS, LABOR AND INCIDENTALS NECESSARY TO PROVIDE THESE TEMPORARY OUTLETS UNTIL THE PLAN DELINEATED OUTLET CAN BE CONSTRUCTED SHALL BE INCLUDED WITH ITEM 614, MAINTAINING TRAFFIC, AND NO ADDITIONAL PAYMENTS SHALL BE MADE.

PART WIDTH CONSTRUCTION

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

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

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

ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

1. SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF PLAN SUBGRADE ELEVATION.
2. EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. THE EXCAVATION LIMITS SHALL BE AS DIRECTED BY THE ENGINEER. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5 AND SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO SECTION 204.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS).
3. COMPACT THE SUBGRADE ACCORDING TO C&MS 204.03.
4. APPROXIMATE LIMITS FOR EXCAVATION OF UNSTABLE SUBGRADE SHALL BE AS DIRECTED BY THE ENGINEER. THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.

   PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO C&MS 204.06.
5. EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO C&MS 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.
6. PROOF ROLL THE STABILIZED AREAS ACCORDING TO C&MS 204.06 TO VERIFY STABILITY.
7. FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

THE QUANTITIES FOR EXCAVATING THE UNSTABLE SUBGRADE ARE PAID UNDER ITEM 204 - EXCAVATION OF SUBGRADE.

COOPERATION BETWEEN CONTRACTORS

THE CONTRACTOR SHALL COOPERATE AND COORDINATE OPERATIONS WITH THE CONTRACTORS ON OTHER PROJECTS THAT MAY BE IN FORCE DURING THE LIFE OF THE CONTRACT. INCLUDING PID 82382, PID 107408, PID 105743, AND PID 21788. NO WAIVER OF ANY PROVISIONS OF 105.07 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS IS INTENDED.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

ITEM 622 - CONCRETE BARRIER SINGLE SLOPE, TYPE D, AS PER PLAN

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING TYPE D CONCRETE BARRIER ACCORDING TO THE CMS AND STANDARD CONSTRUCTION DRAWING RM-4.5 WITH THE FOLLOWING MODIFICATIONS:

1. PROVIDE A 9" THICK CONCRETE FOUNDATION WITH AN APPROXIMATE WIDTH OF 2.5'.

ALL COSTS FOR THIS ITEM OF WORK, INCLUDING SAWCUTTING OF EXISTING SHOULDER ASPHALT, LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN.

ITEM 209 - LINEAR GRADING, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF GRADING ALONG THE OUTSIDE EDGE OF THE PAVED SHOULDER TO ELIMINATE HIGH SPOTS AND PROVIDE POSITIVE SHEET FLOW OFF THE PAVEMENT AND SHOULDER INTO ROADSIDE DITCHES OR DRAINAGE STRUCTURES. THIS ITEM IS NOT INTENDED TO BE USED TO EXCAVATE A UNIFORM DEPTH TO PLACE ITEM 617 – COMPACTED AGGREGATE, AS PER PLAN. ANY DEBRIS COLLECTED SHALL BE REMOVED AND DISPOSED OF AS SPECIFIED IN SECTION 105.16 & 105.17 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

WHEN THE ABOVE ITEM IS CALLED FOR ON THE PLANS OR IN THE PROPOSAL, ALL APPLICABLE PROVISIONS OF ITEM 209, AS SET FORTH IN THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, SHALL APPLY EXCEPT AS MODIFIED HEREIN.

THIS WORK SHALL CONSIST OF THE COMPLETE GRADING AND PREPARATION OF AREAS UPON WHICH TOPSOIL AND SEED ARE TO BE PLACED; ALL IN ACCORDANCE WITH THESE SPECIFICATIONS AND IN REASONABLY CLOSE CONFORMITY WITH THE LINES, GRADES, DEPTHS AND LIMITS SHOWN ON THE PLANS OR OTHERWISE DIRECTED BY THE ENGINEER. SEE THE TYPICAL SECTIONS SHOWN ON SHEETS 10-16 .

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT BID PRICE FOR ITEM 209, LINEAR GRADING, AS PER PLAN AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO PERFORM THIS ITEM OF WORK. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 209 - LINEAR GRADING, AS PER PLAN 20 STA

ITEM 209 - RESHAPING UNDER GUARDRAIL, AS PER PLAN

THIS ITEM OF WORK SHALL BE USED TO PREPARE PROPOSED GUARDRAIL RUNS FOR PAVING UNDER GUARDRAIL. FILL ALL HOLES REMAINING AFTER REMOVAL OF GUARDRAIL POSTS AND ANCHOR ASSEMBLIES WITH GRANULAR MATERIAL.

DO NOT USE FILL MATERIAL CONTAINING SOD. ALL FILL MATERIAL SHALL BE APPROVED BY THE ENGINEER AND SHALL BE COMPACTED AS DIRECTED BY THE ENGINEER. PAYMENT FOR THE ABOVE IS INCLUDED IN THE APPLICABLE GUARDRAIL ITEM. RESHAPE AND COMPACT SUBGRADE TO ENSURE POSITIVE DRAINAGE. ESTABLISH A CROSS-SLOPE OF 0.042 (HALF INCH PER FOOT). GRADE TO A MAXIMUM WIDTH OF 6' TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE TRAVEL LANES. ALL COLLECTED DEBRIS AND TOPSOIL SHALL BE REMOVED AND DISPOSED OF AS SPECIFIED IN SECTION 105.17 OF THE CMS. IN AREAS WHERE ASPHALT UNDER GUARDRAIL WILL NOT BE REPLACED, THE REMOVED MATERIAL SHALL BE REPLACED WITH COMPACTIBLE GRANULAR MATERIAL CONFORMING TO C&MS 703.16 AND PLACED TO GRADE AS APPROVED BY THE ENGINEER. SEED AND MULCH THESE AREAS ACCORDING TO SECTION 659.

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

TOPSOIL

TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE EXCAVATED OR FILLED. ADDITIONAL MATERIAL REQUIRED TO FILL THE TOPSOIL STRIP AREA IN EMBANKMENT AREAS, TOPSOIL STRIPPING AND ANY STOCKPILING INCLUDING ANY LABOR, EQUIPMENT, AND MATERIAL SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT BID FOR ITEM 203-EXCAVATION OR ITEM 203-EMBANKMENT. NO ADDITIONAL COMPENSATION WILL BE PROVIDED.

ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5mm, TYPE A (446), AS PER PLAN, PG 76-22M

THE COARSE VIRGIN AGGREGATE FOR THIS ITEM SHALL BE LIMITED TO A BLEND OF AIR COOLED BLAST FURNACE SLAG (ACBFS) OR TRAP ROCK FROM ONTARIO AND LIMESTONE. THE CONTRACTOR SHALL USE A MINIMUM 60% OF ACBFS OR TRAP ROCK FROM ONTARIO WITH LIMESTONE COMPRISING THE REMAINING PERCENTAGE.

AT LEAST 50% OF FINE VIRGIN AGGREGATE FOR THIS ITEM SHALL BE LIMITED TO ACBFS OR TRAP ROCK FROM ONTARIO. C&MS TABLE 442.02-2 APPLIES EXCEPT NO. 4 SIEVE REQUIREMENTS ARE 52 TO 60 TOTAL PERCENT PASSING. FOR THE NO. 4 SIEVE DO NOT EXCEED 63 IN PRODUCTION. WHEN ACBFS IS USED FOR A FRACTION OF THE COARSE AGGREGATE, PROVIDE A TOTAL ASPHALT BINDER CONTENT GREATER THAN OR EQUAL TO 6.2 PERCENT. IF ACBFS MAKES UP 100% OF THE COARSE AGGREGATE, APPLY THE BINDER CONTENT REQUIREMENTS OF C&MS 442.

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

THIS OPERATION SHALL INCLUDE PREPARATION OF THE GRADED SHOULDER USING ITEM 209 – RESHAPING UNDER GUARDRAIL, AS PER PLAN AND PAVING UNDER THE GUARDRAIL USING ITEM 441 – ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN. HERBICIDE SHALL BE EPA APPROVED FOR PAVING UNDER GUARDRAIL. IT SHALL BE APPLIED TO THE PREPARED AREA AFTER FINAL LEVELING AND GRADING HAS BEEN COMPLETED. THE APPLICATION SHALL BE JUST PRIOR TO PAVING AND SHALL STRICTLY ADHERE TO THE MANUFACTURER'S INSTRUCTIONS. EACH SUCCESSFUL BIDDER MUST BE LICENSED BY THE OHIO DEPARTMENT OF AGRICULTURE AS A COMMERCIAL APPLICATOR AND ALL PERSONS INVOLVED IN THE ACTUAL SPRAYING SHALL BE LICENSED AS COMMERCIAL OPERATORS IN THE APPROPRIATE SPRAY CATEGORY. HERBICIDE LABEL, MATERIAL SAFETY DATA SHEET AND COPY OF APPLICATORS LICENSES SHALL BE SUBMITTED TO THE ENGINEER FOR VERIFICATION PRIOR TO COMMENCING WORK.

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

METHOD A:

1. SET GUARDRAIL POSTS
2. PLACE ITEM 441

METHOD B:

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

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

ITEM 611 - INLET ADJUSTED TO GRADE, AS PER PLAN

THIS ITEM IS INTENDED FOR THE REHABILITATION OF THE DRAINAGE STRUCTURE (AG-6) LOCATED ON EAST 14th STREET AT THE REAR LEFT QUADRANT OF THE BRIDGE.

ALL COSTS INCLUDING LABOR, MATERIALS, TOOLS, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED WITH ITEM 611 - INLET ADJUSTED TO GRADE, AS PER PLAN FOR PAYMENT.

ITEM 611 - MANHOLE, NO. 3, AS PER PLAN A

THIS ITEM SHALL BE AS PER CMS 611 AND STANDARD DRAWING MH-3, EXCEPT THAT A SUMP AND TRAP SHALL BE INSTALLED AS SHOWN IN THE DETAIL ON SHEET 179. THE MANHOLE IS LOCATED AT STA. 63+35, 119.45' RT.

ALL COSTS INCLUDING LABOR, MATERIALS, TOOLS, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED WITH ITEM 611 - MANHOLE, NO. 3, AS PER PLAN A FOR PAYMENT.

1

ITEM 253 - PAVEMENT REPAIR

WITHIN THE LIMITS OF THE RESURFACING FOR IR 77, PROVIDE THE FOLLOWING QUANTITY OF ITEM 253 - PAVEMENT REPAIR FOR REPAIR OF UNSOUND EXISTING ASPHALT. THE PAVEMENT REPAIR SHALL TAKE PLACE AFTER PLANING OPERATIONS. THIS ITEM SHALL CONFORM TO ALL REQUIREMENTS OF CMS ITEM 253 - PAVEMENT REPAIR. USE REPLACEMENT MATERIALS CONFORMING TO THE REQUIREMENTS OF ITEM 301. DEPTH OF THE REPAIR SHALL BE TO THE TOP OF THE EXISTING CONCRETE PAVEMENT.

ITEM 253 - PAVEMENT REPAIR 100 CY

ALL LABOR, EQUIPMENT,MATERIALS AND INCIDENTALS REQUIRED TO PERFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 253 - PAVEMENT REPAIR.

ITEM 622 – BARRIER TRANSITION, AS PER PLAN

THIS ITEM SHALL APPLY TO THE MEDIAN BARRIER LOCATED ALONG THE FORWARD APPROACH OF BRIDGE NO. CUY-77-15.75 (IR 77 OVER E. 14TH STREET). THE MEDIAN BARRIER SHALL TRANSITION FROM THE REINFORCED END ANCHORAGE (STATION 82+67.51) TO THE CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION (STATION 82+85.97 REAR CONSTRUCTION JOINT). THE REINFORCED END ANCHORAGE IS AS SHOWN ON SHEET 187 .
THE CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION FACE IS AS SHOWN ON THE EXISTING PLAN DETAILS PROVIDED ON SHEET 188 IN THIS PLAN SET. ADDITIONAL DETAILS AND NOTES CAN BE FOUND ON THE PLAN INSERT SHEET DEPICTING THE NEW JERSEY SHAPE TO SINGLE SLOPE BARRIER TRANSITION (SEE SHEET 186).

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 622 – BARRIER TRANSITION, AS PER PLAN AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO CONSTRUCT THIS BARRIER TRANSITION.

ITEM 601 - CONCRETE SLOPE PROTECTION, AS PER PLAN

THIS ITEM SHALL BE PER CMS 601 AND SHALL INCLUDE MINOR GRADING REQUIRED TO MATCH INTO THE EXISTING SLOPES. THIS WORK SHALL INCLUDE REESTABLISHING THE EXISTING GRADING ON THE EXISTING SLOPES. SURPLUS OR UNSUITABLE MATERIAL, AS DETERMINED BY THE ENGINEER, SHALL BE DISPOSED OF. EMBANKMENT REQUIRED FOR ERODED CONDITIONS SHALL MEET THE REQUIREMENTS OF C&MS 203.02R. THE CONTRACTOR SHALL RESTORE, TO THE SATISFACTION OF THE ENGINEER, ANY DISTURBED AREAS CAUSED BY CONSTRUCTION OF THIS ITEM AT NO ADDITIONAL COST TO THE PROJECT.

ALL COSTS INCLUDING LABOR, MATERIALS, TOOLS, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED WITH ITEM 601 - CONCRETE SLOPE PROTECTION, AS PER PLAN FOR PAYMENT.

ITEM 670 - SLOPE EROSION PROTECTION, AS PER PLAN

THIS ITEM SHALL BE PER CMS 670 AND SHALL INCLUDE MINOR GRADING REQUIRED TO MATCH INTO THE EXISTING SLOPES. THIS WORK SHALL INCLUDE REESTABLISHING THE EXISTING GRADING ON THE EXISTING SLOPES. SURPLUS OR UNSUITABLE MATERIAL, AS DETERMINED BY THE ENGINEER, SHALL BE DISPOSED OF. EMBANKMENT REQUIRED FOR ERODED CONDITIONS SHALL MEET THE REQUIREMENTS OF C&MS 203.02R. THE CONTRACTOR SHALL RESTORE, TO THE SATISFACTION OF THE ENGINEER, ANY DISTURBED AREAS CAUSED BY CONSTRUCTION OF THIS ITEM AT NO ADDITIONAL COST TO THE PROJECT.

ALL COSTS INCLUDING LABOR, MATERIALS, TOOLS, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED WITH ITEM 670 - SLOPE EROSION PROTECTION, AS PER PLAN FOR PAYMENT.

PROFILE AND ALIGNMENT

THE INTENT OF THE PROPOSED PAVEMENT RESURFACING IS TO UTILIZE THE APPROXIMATE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT UNLESS OTHERWISE DETAILED IN THE PLANS. THE PROPOSED ASPHALT CONCRETE OVERLAY SHALL HAVE A MINIMUM THICKNESS OF 1 1/2 INCHES AS SHOWN ON THE TYPICAL SECTIONS.

ITEM SPECIAL - PIPE CLEANOUT

THIS WORK CONSISTS OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. DISPOSE OF ALL MATERIAL PER C&MS 105.16 AND 105.17. CLEAN OUT TO THE APPROVAL OF THE ENGINEER.

CLEANOUT OF THE PIPE IS PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL, PIPE CLEANOUT. THIS PRICE INCLUDES THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

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

ITEM SPECIAL - PIPE CLEANOUT, 24" AND UNDER 200 FT

ITEM 617 - COMPACTED AGGREGATE, AS PER PLAN

THIS ITEM SHALL BE USED TO EXCAVATE EXISTING BERM MATERIAL AND PLACE COMPACTED AGGREGATE AT A VARIABLE DEPTH TO FILL IN LOW SPOTS AND ELIMINATE DROP OFFS ALONG SHOULDERS. MATERIAL SHALL BE LIMITED TO RECLAIMED ASPHALT PAVEMENT (RAP). THE ACTUAL DEPTH OF EXCAVATED AND COMPACTED AGGREGATE PLACED WILL VARY DEPENDING UPON EXISTING CONDITIONS. FOR ESTIMATING PURPOSES, AN AVERAGE DEPTH OF THREE INCHES (3") AT A FOUR FOOT WIDTH HAS BEEN USED. WATER, IF NEEDED, SHALL BE APPLIED ACCORDING TO C&MS 617.05 AND SHALL BE INCLUDED WITH ITEM 617 – COMPACTED AGGREGATE, AS PER PLAN. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 617 - COMPACTED AGGREGATE, AS PER PLAN 100 CY

1	10/13/25	MODIFY ITEM 611-MANHOLE NOTE

GENERAL NOTES

DESIGN AGENCY

DESIGNER ALP

REVIEWER PRS 7-28-25

PROJECT ID 119380

SHEET P.19 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/14/2025 TIME: 8:36:49 AM USER: SMorr
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SEEDING AND MULCHING

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

ITEM 659 - SOIL ANALYSIS TEST	2	EACH
ITEM 659 - TOPSOIL	688	CY
ITEM 659 - SEEDING AND MULCHING	6196	SY
ITEM 659 - REPAIR SEEDING AND MULCHING	310	SY
ITEM 659 - INTER-SEEDING	310	SY
ITEM 659 - COMMERCIAL FERTILIZER	0.84	TON
ITEM 659 - LIME	1.28	ACRES
ITEM 659 - WATER	35	MGAL

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

ITEM 832 - EROSION CONTROL

THE LOCATION AND TIMING OF ALL EROSION AND SEDIMENT CONTROL ITEMS SHALL BE FIELD ADJUSTED TO PREVENT SIGNIFICANT IMPACTS ON RECEIVING WATERS. IMPLEMENTATION OF THIS EROSION CONTROL SHALL CONTINUE THROUGHOUT THE DURATION OF THE PROJECT OR UNTIL SUCH TIME THAT THE UPSLOPE DISTURBED AREAS ARE STABILIZED.

INSTALLATION OF ALL TEMPORARY SEDIMENT AND EROSION CONTROL ITEMS SHALL BE AS PER ODOT SUPPLEMENTAL SPECIFICATION 832.

ALL REASONABLE ATTEMPTS SHOULD BE MADE TO MINIMIZE THE TOTAL AREA OF DISTURBED LAND.

AREAS TO REMAIN DORMANT FOR MORE THAN 14 DAYS SHOULD BE STABILIZED WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE WITH CONSTRUCTION SEEDING AND MULCHING, EROSION CONTROL MATTING, OR OTHER APPROPRIATE EROSION CONTROL MEASURES.

THE FOLLOWING QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 832 - EROSION CONTROL	100000	EACH

ITEM 209 - DITCH CLEANOUT, AS PER PLAN

THIS WORK SHALL CONSIST OF REESTABLISHING THE CROSS SECTION ON AN EXISTING DITCH. SURPLUS OR UNSUITABLE MATERIAL, AS DETERMINED BY THE ENGINEER, SHALL BE DISPOSED OF. EMBANKMENT REQUIRED FOR ERODED CONDITIONS SHALL MEET THE REQUIREMENTS OF C&MS 203.02R EXCEPT THAT THE COMPACTION REQUIREMENTS ARE WAIVED. ALSO INCLUDED IN THIS ITEM SHALL BE ALL MATERIALS, LABOR AND INCIDENTALS NECESSARY TO SEED AND MULCH THE CLEANED OUT DITCH AS PER CMS ITEM 659 - SEEDING AND MULCHING AND ITEM 670 - DITCH EROSION PROTECTION UNLESS OTHER PERMANENT EROSION CONTROL MEASURES HAVE BEEN PROVIDED IN THE PLANS. THE CONTRACTOR SHALL RESTORE, TO THE SATISFACTION OF THE ENGINEER, ANY DISTURBED AREAS CAUSED BY CONSTRUCTION OF THIS ITEM AT NO ADDITIONAL COST TO THE PROJECT.

MEASUREMENT OF THE DITCH CLEANOUT SHALL BE THE FEET MEASURED ALONG THE CENTERLINE OF THE DITCH.

PAYMENT FOR ALL THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 209 - DITCH CLEANOUT, AS PER PLAN.

THE FOLLOWING QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 209 - DITCH CLEANOUT, AS PER PLAN	300	FT

ITEM 630 - REMOVAL OF GROUND MOUNTED SIGN AND REERECTION, AS PER PLAN, NO. 1

THIS ITEM SHALL INCLUDE THE REMOVAL AND REERECTION OF THE EXTRUSHEET SIGN LOCATED ALONG RAMP E-17 AT STATION 2+17 LT. INCLUDED WITH THE REMOVAL AND REERECTION OF THE SIGN IS THE SIGN POST, THE SOLAR PANEL, THE FLASHING LIGHTS, THE TRANSFORMER BASE, THE CONTROL BOX AND ANY OTHER ITEMS ATTACHED TO THE SIGN UNIT. ALL COSTS INCLUDING LABOR, MATERIALS, TOOLS, EQUIPMENT AND INCIDENTALS REQUIRED TO COMPLETE THE WORK DESCRIBED ABOVE SHALL BE INCLUDED WITH ITEM 630 - REMOVAL OF GROUND MOUNTED SIGN AND REERECTION, AS PER PLAN, NO. 1 FOR PAYMENT.

ITEM 630 - REMOVAL OF GROUND MOUNTED SIGN AND REERECTION, AS PER PLAN, NO. 2

THIS ITEM SHALL INCLUDE THE REMOVAL AND REERECTION OF THE FLAT SHEET SIGN LOCATED ALONG RAMP E-17 AT STATION 3+20 LT. INCLUDED WITH THE REMOVAL AND REERECTION OF THE SIGN IS THE SIGN POST, THE SOLAR PANEL, THE LED LIGHTS, THE TRANSFORMER BASE, THE CONTROL BOX AND ANY OTHER ITEMS ATTACHED TO THE SIGN UNIT. ALL COSTS INCLUDING LABOR, MATERIALS, TOOLS, EQUIPMENT AND INCIDENTALS REQUIRED TO COMPLETE THE WORK DESCRIBED ABOVE SHALL BE INCLUDED WITH ITEM 630 - REMOVAL OF GROUND MOUNTED SIGN AND REERECTION, AS PER PLAN, NO. 2 FOR PAYMENT.

ITEM 607 - FENCE, MISC.: REMOVE AND REERECT

THIS ITEM SHALL BE PER CMS 607. THE FENCE SHALL BE REMOVED DURING CONSTRUCTION AND REERECTED IN THE EXISTING LOCATIONS.

ALL COSTS INCLUDING LABOR, MATERIALS, TOOLS, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED WITH ITEM 607 - FENCE, MISC.: REMOVE AND REERECT FOR PAYMENT.

FENCE LENGTHS

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

PERMITS

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

https://clevelandohio.gov/sites/default/files/forms_publications/StreetOpeningSidewalkObstructionApp.pdf

DIVISION OF ASSESSMENTS AND LICENSES
601 LAKESIDE AVENUE, ROOM 122
CLEVELAND, OHIO 44114
PHONE: (216) 664-2174
E-MAIL: DALpermits@city.cleveland.oh.us

ALL STREET OPENING REPAIRS, CURB REPAIRS, AND/OR SIDEWALK REPAIRS EITHER INCIDENTAL TO THE PROJECT OR PART OF THE PROJECT MUST BE PERFORMED IN ACCORDANCE TO CITY OF CLEVELAND STANDARDS. A COPY OF THE STANDARDS CAN BE OBTAINED FROM THE DIVISION OF ENGINEERING AND CONSTRUCTION BY CALLING 216-664-2381.

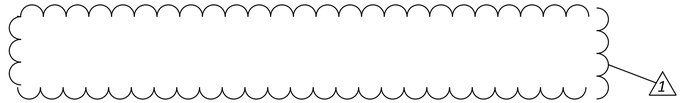
ALL PERMITS, FEES, AND CHARGES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THEIR ASSOCIATED COST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR PERTINENT WORK ITEMS. FOR BIDDING PURPOSE, FEES AND CHARGES MAY BE OBTAINED FROM THE DIVISION OF ASSESSMENTS AND LICENSES AT 216-664-2174.

THE CITY OF CLEVELAND HAS STATED THAT AN OBSTRUCTION PERMIT WILL BE REQUIRED FOR THIS PROJECT. THE OBSTRUCTION WILL INCLUDE DETOURING AND CLOSURES ALONG THE SIDEROADS, INSTALLATIONS OVERHEAD, AND WILL BE PERMITTED AT A $20 PER MONTH BASIS.

ENVIRONMENTAL COMMITMENTS

1. ENDANGERED BAT HABITAT REMOVAL

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



ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT

THIS ITEM CONSISTS OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING 12 INCH DIAMETER CONDUIT AND FILLING THE AREA SEALED OFF WITH ITEM 613, SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER.

LOCATE THE BULKHEADS AT THE LIMITS OF THE AREA TO BE FILLED, AS INDICATED ON THE PLANS. THE BULKHEADS CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

PUMP THE FILL MATERIAL INTO PLACE OR BY OTHER MEANS APPROVED BY THE ENGINEER, SO THAT AFTER SETTLEMENT, AT LEAST 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH IS FILLED. THE LENGTH OF FILLED AND PLUGGED CONDUIT TO BE PAID FOR IS THE ACTUAL NUMBER OF FEET (MEASURED ALONG THE CENTERLINE OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS) FILLED AND PLUGGED AS DESCRIBED ABOVE.

IN LIEU OF FILLING AND PLUGGING THE EXISTING CONDUIT, THE PIPE MAY BE CRUSHED AND BACKFILLED PER 203, OR IT MAY BE REMOVED. THE LENGTH, MEASURED AS PROVIDED ABOVE, WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR, ITEM SPECIAL, FILL AND PLUG EXISTING CONDUIT.

1	10/13/25	REMOVE TEMPORARY DRAINAGE NOTE

GENERAL NOTES

DESIGN AGENCY

DESIGNER ALP

REVIEWER PRS 7-28-25

PROJECT ID 119380

SHEET P.21 TOTAL 365

CUY-77-15.46

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ITEM 614 - MAINTAINING TRAFFIC (CONTINUED)

VII. MAINTENANCE OF TRAFFIC SYSTEMS

1. WHEN REQUIRED

WHENEVER ANY PART OF THE TRAVELED SURFACE IS BEING WORKED UPON OR IS OTHERWISE NOT SUITABLE FOR SAFE AND CONVENIENT USE BY VEHICLES, TRAFFIC CONTROL DEVICES SUFFICIENT TO PROTECT SUCH AREAS TO ASSURE THE SAFE AND CONVENIENT PASSAGE OF VEHICULAR TRAFFIC SHALL BE INSTALLED AND MAINTAINED. SUCH TRAFFIC CONTROL DEVICES AND THE MANNER IN WHICH THEY ARE USED SHALL BE CONSISTENT WITH THESE PLANS AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, HEREINAFTER REFERRED TO AS THE "MANUAL". THE TRAFFIC CONTROL DEVICE SYSTEM SHALL CONSTITUTE THE MINIMUM PROVISIONS FOR TRAFFIC CONTROL FOR EACH PARTICULAR SITUATION. WHENEVER THE ENGINEER DEEMS IT NECESSARY, ESPECIALLY WHERE A GRADE, CURVE, OR MERGE CONDITION EXISTS, THE ENGINEER MAY DIRECT THAT ADDITIONAL OR ALTERNATIVE DEVICES BE USED.

2. CONDITIONS

DURING ALL PARTS OF THIS PROJECT, FLAGGERS, SIGNING, BARRICADES, FLASHING ARROWS, ETC. SHALL BE LOCATED AS INDICATED IN THE "MANUAL" OR AS SHOWN IN THE STANDARD DRAWINGS.

3. ADVANCE WARNING SIGNS

ALL ADVANCE WARNING SIGNS FOR ANY CONDITION WHICH RESTRICTS TRAFFIC SHALL BE ERECTED BEFORE ANY SUCH RESTRICTION IS PUT INTO EFFECT. ALL SUCH SIGNS SHALL BE COVERED OR REMOVED FROM THE VIEW OF TRAFFIC WHENEVER THEY ARE NOT APPLICABLE.

4. FLAGGERS

AT LEAST TWO FLAGGERS ARE REQUIRED FOR EACH LANE CLOSURE REQUIRING FLAGGERS. THE CONTRACTOR SHALL FURNISH ADDITIONAL FLAGGERS AS DIRECTED BY THE ENGINEER.

5. PROTECTION OF PUBLIC

PERSONAL CARS SHALL NOT BE PARKED WITHIN THE RIGHT OF WAY.

6. FAILURE TO COMPLY

IF THERE IS ANY FAILURE TO COMPLY WITH PROVISIONS FOR TRAFFIC CONTROL SET OUT IN THESE PLANS AND NOTES, OR WITH THE PROVISIONS OF THE "MANUAL", THE HIGHWAY IN THE VICINITY OF THE WORK AREA SHALL NOT BE CONSIDERED IN A CONDITION FOR THE SAFE AND CONVENIENT USE BY THE TRAVELING PUBLIC. ANY FAILURE TO KEEP THE HIGHWAY, IN THE VICINITY OF THE WORK AREA, IN A CONDITION FOR THE SAFE AND CONVENIENT USE BY THE TRAVELING PUBLIC SHALL BE CONSIDERED A BREACH OF THIS CONTRACT. WORK SHALL BE SUSPENDED UNTIL THE CONTRACTOR COMPLIES WITH THE PROVISIONS OF THE AFOREMENTIONED ITEMS.

VIII. MAINTENANCE OF TRAFFIC MATERIALS

1. SIGNS

SIGN DIMENSIONS AND SPECIFICATIONS, INCLUDING LETTER SIZES ARE TO BE AS PROVIDED IN THE "MANUAL", OR IN DESIGN DRAWINGS PROVIDED BY THE DEPARTMENT OF TRANSPORTATION. THE SIGNS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER PRIOR TO THE START OF THE PROJECT.

2. SIGN SUPPORT

SIGN SUPPORTS SHALL BE OF SUFFICIENT SIZE AND MASS AS TO SUPPORT THE SIGNS AT THE APPROPRIATE HEIGHT. SUPPORTS SHALL BE AS SHOWN ON THE STANDARD DRAWINGS.

3. FLASHING ARROW REQUIREMENT

WHENEVER ANY PART OF THE TRAVELED SURFACE OF THE INTERSTATES IS CLOSED, THE MOTORISTS SHALL BE WARNED AND DIRECTED BY THE CONTRACTOR THROUGH THE USE OF ONE FLASHING ARROW PANEL FOR EACH LANE CLOSED. THE CONTRACTOR SHALL REFER TO SUPPLEMENTAL SPECIFICATIONS 821 AND 921, AND THE PROVISIONS SET FORTH IN THE "MANUAL" FOR ALL INFORMATION REGARDING FURNISHING, MAINTAINING, AND USE OF FLASHING ARROW PANELS. PAYMENT FOR THE ABOVE MENTIONED ITEMS SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 - MAINTAINING TRAFFIC.

4. DRUMS

DRUMS SHALL BE IN ACCORDANCE WITH PERTINENT SECTIONS OF THE "MANUAL". ALL COSTS FOR INSTALLING, MAINTAINING, AND SUBSEQUENT REMOVAL OF SAID DRUMS IS TO BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614 - MAINTAINING TRAFFIC.

5. CONES

CONES, IF UTILIZED, ARE TO BE LOCATED AS SHOWN IN THE "MANUAL" AND THE STANDARD DRAWINGS.

6. BARRIER

PORTABLE CONCRETE BARRIER, IF NECESSARY, IS TO BE LOCATED AS SHOWN IN THE "MANUAL" AND THE STANDARD DRAWINGS.

7. FLASHERS

FLASHERS SHALL BE 12 VOLT BATTERY-OPERATED MODELS WITH 7 INCH DIAMETER YELLOW LENSES ILLUMINATED BY RAPID INTERMITTENT FLASHERS OF SHORT DURATION AND ARE TO BE PLACED ON ALL SIGNS AT ALL TIMES AS REQUIRED BY THE "MANUAL" AND THE STANDARD CONSTRUCTION DRAWINGS.

8. FLOODLIGHTING

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

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

9. WORK VEHICLES

ALL WORK VEHICLES LICENSED TO OPERATE ON THE HIGHWAY, SHALL BE EQUIPPED WITH A FLASHING, ROTATING, OR OSCILLATING AMBER LIGHT VISIBLE TO ALL DIRECTIONS OF TRAFFIC FOR A MINIMUM OF ONE-QUARTER MILE IN BRIGHT SUNLIGHT AND SHALL BE OPERATED WITH LIGHTED HEAD AND TAIL LAMPS. THE AMBER LIGHT SHALL BE IN OPERATION AT ALL TIMES WITHIN THE WORK ZONE AND WHILE TRAVELING TO AND FROM THE WORK ZONE WHENEVER THE VEHICLE SPEED IS BELOW THE POSTED LEGAL LIMIT. VEHICLE HAZARD LIGHTS DO NOT SATISFY THIS REQUIREMENT. ALL OTHER EQUIPMENT SHALL BE EQUIPPED WITH A FLASHING, ROTATING, OR OSCILLATING AMBER LIGHT VISIBLE TO ALL DIRECTIONS OF TRAFFIC FOR A MINIMUM OF ONE-QUARTER MILE IN BRIGHT SUNLIGHT. THE AMBER LIGHT SHALL BE IN OPERATION WHILE THE EQUIPMENT IS WITHIN THE WORK ZONE.

IX. ESTIMATED QUANTITIES

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY TO REPAIR AND ADJUST THE EXISTING ASPHALT SURFACES USED DURING THE MAINTENANCE OF TRAFFIC AS DETERMINED BY THE ENGINEER.

ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 200 CY

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

CONSTRUCTION TRAFFIC

ALL CONSTRUCTION TRAFFIC SHALL USE ACCEPTABLE TRUCK ROUTES TO ACCESS THE CONSTRUCTION AREA. USE OF LOCAL RESIDENTIAL STREETS IS STRICTLY PROHIBITED UNLESS ALLOWED IN WRITING BY THE LOCAL ENFORCEMENT AUTHORITY.

CONTINUOUS ACCESS

THE CONTRACTOR SHALL PROVIDE CONTINUOUS ACCESS FOR PEDESTRIANS, PASSENGER VEHICLES, TRUCKS, AND SAFETY EQUIPMENT TO ALL ADJOINING PROPERTIES. THE COST FOR ALL MATERIALS, EQUIPMENT, INCIDENTALS AND LABOR NECESSARY TO PROVIDE CONTINUOUS ACCESS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 - MAINTAINING TRAFFIC.

MAINTENANCE OF TRAFFIC CONTROL ZONES

THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE SIGNS, DRUMS AND TEMPORARY PAVEMENT MARKINGS AT THE LOCATIONS DETAILED IN THE PLANS OR SPECIFIED IN THE STANDARD DRAWINGS. WHEN THE CONTRACTOR IS NOTIFIED OF DEFICIENCIES, HE SHALL CORRECT THE DEFICIENCIES AS SOON AS POSSIBLE, PREFERABLY WITHIN 12 HOURS AND NO LATER THAN 24 HOURS.

ITEM 614 - MAINTAINING TRAFFIC, MISC.: SITE ACCESS

THIS ITEM SHALL INCLUDE ALL WORK NECESSARY TO PROVIDE ACCESS TO THE IR 77 BRIDGES OVER WOODLAND AVE, E. 22ND ST., AND E. 14TH ST. USING THE SIDE SLOPES ALONG THE OUTSIDE.

THIS ITEM SHALL INCLUDE, BUT IS NOT LIMITED TO, EARTHWORK, CLEARING AND GRUBBING, FENCE WORK, SIGN REMOVAL AND REERECTION, CRUSHED AGGREGATE SLOPE PROTECTION, ETC. TEMPORARY EROSION CONTROL ITEMS SHALL BE PAID FOR PER ITEM 832. THIS ITEM SHALL INCLUDE ALL RESTORATION WORK NECESSARY TO RESTORE ANY DISTURBED AREAS TO AS GOOD AS OR BETTER THAN THEIR ORIGINAL CONDITION. WHEN ACCESSING THE SPECIFIC LOCATIONS AND SLOPES 3:1 OR STEEPER ARE ENCOUNTERED, THE CONTRACTOR SHALL MAKE EVERY ATTEMPT TO PREVENT FUTURE EROSION PROBLEMS.

ALL SLOPES 3:1 OR STEEPER SHALL HAVE ITEM 670-SLOPE PROTECTION INSTALLED. ALL DISTURBED VEGETATED DITCHES SHALL HAVE ITEM 670-DITCH EROSION PROTECTION INSTALLED. ALL DISTURBED ROCK CHANNEL PROTECTION AND PAVED GUTTERS SHALL BE REPLACED PER THE CURRENT SPECIFICATIONS UNDER THIS ITEM, AT NO ADDITIONAL COST TO THE STATE.

THIS ITEM SHALL ALSO INCLUDE SEEDING, FERTILIZING AND WATERING PER ITEM 659 FOR ALL DISTURBED AREAS. IT SHALL ALSO INCLUDE THE ADDITION OF 3 INCHES OF TOPSOIL FOR ALL DISTURBED AREAS. THE CONTRACTOR SHALL ENSURE A GOOD STAND OF GRASS AS DESCRIBED PER 659.23. THE COST OF ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS AS APPROVED BY THE ENGINEER FOR THE SLOPE EROSION REPAIR AND DRAINAGE REPAIR LOCATIONS, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 614 - MAINTAINING TRAFFIC, MISC.: SITE ACCESS.

1	10/13/25	REMOVE SHEET REFERENCE FROM NOTE

TEMPORARY ASHALT WEDGE

ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC WILL BE REQUIRED TO CONSTRUCT AN ASPHALT WEDGE AS PER MT-101.90 AND BP-3.1 TO TRANSITION FROM THE EXISTING PAVEMENT TO THE PROPOSED INTERMEDIATE COURSE AND FROM THE INTERMEDIATE COURSE TO THE APPROACH SLAB. THE FOLLOWING QUANTITIES ARE INCLUDED AND CARRIED TO THE GENERAL SUMMARY TO CONSTRUCT THE ASPHALT WEDGE. 1

ITEM 407 - NON-TRACKING TACK COAT 210 GAL.

ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 49 CY

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (THICKNESS = 1½") 2327 SY

ITEM 614 - MAINTAINING TRAFFIC, MISC.: BARRIER MEDIAN INLET RECONSTRUCTED TO GRADE

EXISTING DRAINAGE MODIFICATIONS INCLUDE THE RECONSTRUCTION OF THE BARRIER MEDIAN INLETS TO GRADE, INCLUDING THE REPLACEMENT OF THE GRATE AND FRAME WITH A COVER SUITABLE TO WITHSTAND HS-20 TRAFFIC LOADING DURING CONSTRUCTION OF PRE-PHASE 1, THE RESURFACING OF THE EXISTING MEDIAN SHOULDER TO A CROSS SLOPE OF 1.6% WITHIN THE LIMITS OF THE MEDIAN BARRIER SLOT, WITHOUT REDUCING THE INLET OPENING SLOT TO LESS THAN 4". ALL WORK INDICATED AND INCIDENTAL TO EXISTING DRAINAGE MODIFICATIONS SHALL BE PAID FOR PER ITEM 614 - MAINTAINING TRAFFIC, MISC.: BARRIER MEDIAN INLET RECONSTRUCTED TO GRADE. THE FOLLOWING QUANTITY HAS BEEN INCLUDED AND CARRIED TO THE GENERAL SUMMARY FOR THE WORK DESCRIBED ABOVE:

ITEM 614 - MAINTAINING TRAFFIC, MISC.: BARRIER MEDIAN INLET RECONSTRUCTED TO GRADE 2 EACH

MAINTENANCE OF MAINLINE TRAFFIC (OVERHEAD SIGN WORK)

MAINLINE OVERHEAD SIGN WORK IS LIMITED TO MOT OVERLAYS AND REPLACING AN OVERHEAD SIGN OVER THE SB LANES. THE INSTALLATION AND REMOVAL OF THESE OVERLAYS SHALL BE COMPLETED USING ODOT STANDARD CONSTRUCTION DRAWING MT-95.30, CLOSING RIGHT OR LEFT LANE OF A MULTI-LANE DIVIDED HIGHWAY WITH DRUMS AND MT-99.60, SHORT-TERM CLOSURE OF MULTI-LANE DIVIDED HIGHWAY.

THE INSTALLATION OF THE MAINLINE OVERHEAD OVERLAYS SHALL BE IN ACCORDANCE WITH ALLOWABLE LANE CLOSURES AS IDENTIFIED IN THE PLCS.

OVERNIGHT JOINT TRENCH CLOSING

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A SAFE WORK SITE BY REDUCING THE RISK OF VEHICLES OR PEDESTRIANS FALLING INTO THE OPEN JOINT TRENCH DURING CONSTRUCTION. THE CONTRACTOR SHALL COVER UNFILLED JOINT REPAIR AREAS AT THE END OF EACH WORKDAY WITH A STEEL PLATE.

CONTRACTOR'S EQUIPMENT - OPERATION AND STORAGE

NO EQUIPMENT HAVING A GROSS WEIGHT IN EXCESS OF 60,000 POUNDS SHALL BE PERMITTED ON ANY I.R. 77 OR RAMP BRIDGE STRUCTURE IN ACCORDANCE WITH 501.05.B.6. A STRUCTURAL ANALYSIS SHALL BE PERFORMED, SIGNED, SEALED, AND DATED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO PROVE PROPOSED EQUIPMENT HAVING A GROSS WEIGHT IN EXCESS OF 60,000 POUNDS WILL NOT EXCEED UNIT STRESSES IN ACCORDANCE WITH 501.05.B.6.b. A SECOND, DIFFERENT OHIO REGISTERED PROFESSIONAL ENGINEER SHALL CHECK, SIGN, SEAL, AND DATE THE STRUCTURAL ANALYSIS. THE CONTRACTOR SHALL SUBMIT COPIES OF THE CALCULATIONS TO THE ENGINEER, AT LEAST FIFTEEN (15) DAYS PRIOR TO BEGINNING WORK, AND RECEIVE APPROVAL BEFORE STARTING.

THE CONTRACTOR'S EQUIPMENT SHALL BE EQUIPPED WITH AT LEAST ONE AMBER FLASHING LIGHT. EQUIPMENT MAY BE PARKED IN AREAS ALONG THE HIGHWAY WHEN WORK OPERATIONS ARE SCHEDULED TO CONTINUE WITHIN THE NEXT WORKDAY. OTHERWISE THE EQUIPMENT THAT IS NOT PROTECTED BY CONCRETE BARRIERS SHALL BE STORED AT A STORAGE AREA OUTSIDE THE R/W, THE LOCATION OF WHICH SHALL HAVE PRIOR APPROVAL OF THE ENGINEER. WHEN PARKING ALONG THE HIGHWAY THE EQUIPMENT SHALL BE PLACED AND DELINEATED AS PER 614.035. NO EQUIPMENT SHALL BE PARKED IN THE MEDIAN OF THE HIGHWAY. ADEQUATE BARRICADES AND LIGHTS SHALL BE PLACED ON THE PAVEMENT SIDE OF THE EQUIPMENT, TO IDENTIFY THE LIMITS OF THE EQUIPMENT. ALL OTHER EQUIPMENT, INCLUDING PRIVATE VEHICLES, SHALL BE STORED AT THE APPROVED CONTRACTOR'S STORAGE AREA. NO EQUIPMENT SHALL BE PARKED ON PRIVATE PROPERTY UNLESS PRIOR APPROVAL OF THE OWNER AND THE PROJECT ENGINEER/SUPERVISOR HAS BEEN GRANTED.

ITEM 614 - WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)

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

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

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

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

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

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

MAINTENANCE OF TRAFFIC NOTES

DESIGN AGENCY

DESIGNER TJF

REVIEWER PRS 7-28-25

PROJECT ID 119380

SHEET P.24 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/9/2025 TIME: 2:34:25 PM USER: SMorr
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WORK ZONE INCREASED PENALTIES SIGN (R11-H5A)

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

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

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

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

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

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

ITEM 614 - WORK ZONE INCREASED PENALTIES SIGN 7 EACH

WORK ZONE INCREASED PENALTIES SIGNS WILL BE PLACED AT THE FOLLOWING APPROXIMATE LOCATIONS:

NB LANES

1. AFTER BRIDGE NO. CUY-77-14.35 (IR 77 OVER IR 490) (APPROX. STA. 11+50±)
2. BEGINNING RAMP S-E (APPROX. STA. 38+00±)
3. AFTER BRIDGE NO. CUY-77-15.18 (IR 77 OVER 30th ST.) (APPROX. STA. 56+00±)
4. BEFORE BRIDGE NO. CUY-77-15.46 (IR 77 OVER WOODLAND AVE.) (APPROX. STA. 64+00±)
5. BEFORE BRIDGE NO. CUY-77-15.62 (IR 77 OVER 22nd ST.) (APPROX. STA. 73+00±)

SB LANES

1. END PLANING AND RESURFACING RAMP E-10 (APPROX. STA. 1+00±)
2. AFTER BRIDGE NO. CUY-77-15.62 (IR 77 OVER 22nd ST.) (APPROX. STA. 73+00±)

RUMBLE STRIP REMOVAL AND REPLACEMENT

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

IMMEDIATELY FOLLOWING COMPLETION OF MOT OPERATIONS AND RESTORING THE TRAFFIC TO ITS ORIGINAL POSITION, NEW RUMBLE STRIPS SHALL BE INSTALLED AT THE LOCATION WHERE THE EXISTING RUMBLE STRIPS WERE REMOVED.

ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, CLASS I, 12", 807 PAINT

THIS ITEM SHALL CONFORM WITH ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 12" WITH THE EXCEPTION THAT THIS ITEM SHALL ALSO CONFORM WITH SUPPLEMENTAL SPECIFICATION 807.

ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS REQUIRED TO INSTALL THE WORK DESCRIBED ABOVE SHALL BE PAID WITH ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, CLASS I, 12", 807 PAINT.

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ITEM 621 - RAISED PAVEMENT MARKER REMOVED, AS PER PLAN

THIS ITEM SHALL CONSIST OF REMOVING THE EXISTING RAISED PAVEMENT MARKER REFLECTORS FROM THE EXISTING RAISED PAVEMENT MARKERS PRIOR TO MAINTENANCE OF TRAFFIC PHASE 1.

ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS REQUIRED TO REMOVE THE EXISTING RAISED PAVEMENT MARKER REFLECTORS SHALL BE INCLUDED WITH ITEM 621 - RAISED PAVEMENT MARKER REMOVED, AS PER PLAN.

ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (449), AS PER PLAN, PG 64-22, 1-1/2"

THE COARSE VIRGIN AGGREGATE AND AT LEAST 50% OF FINE VIRGIN AGGREGATE FOR THIS ITEM SHALL BE LIMITED TO AIR COOLED BLAST FURNACE SLAG (ACBFS) OR TRAP ROCK FROM ONTARIO.

TABLE 442.02-2 APPLIES EXCEPT NO. 4 SIEVE REQUIREMENTS ARE 52 TO 60 TOTAL PERCENT PASSING. FOR THE NO. 4 SIEVE DO NOT EXCEED 63 IN PRODUCTION.

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

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

EXTRA ADVANCE WARNING SIGNS

AN EXTRA ADVANCE WARNING SIGN GROUP CONSISTS OF TWO W20-1 (ROAD WORK AHEAD) SIGNS, TWO W20-5 (RIGHT/LEFT LANE CLOSED AHEAD) SIGNS WITH W16-3aP DISTANCE PLATES, AND TWO W3-H4b (WATCH FOR STOPPED TRAFFIC) SIGNS AND REQUIRED WARNING LIGHTS.

THE CONTRACTOR SHALL PROVIDE, ERECT, MAINTAIN AND REMOVE EXTRA ADVANCE WARNING SIGN GROUPS AS SHOWN ON TRAFFIC SCD MT-95.50 AT THE FOLLOWING DISTANCES IN ADVANCE OF THE LANE TAPERS WITH THE APPROPRIATE W16-3aP DISTANCE PLATES:

CUY-77-1546 (IR 77 OVER WOODLAND AVE.)
LANE TAPER STATION 50+00, PHASE 1 (IR 77 NORTHBOUND)
PROVIDE SIGN GROUPS AT 2 MILES, 3 MILES, AND 4 MILES.

CUY-77-1546 (IR 77 OVER E. 14TH ST.)
LANE TAPER STATION 1+00, PHASE 1 AND 2 (IR 77 SOUTHBOUND)
PROVIDE SIGN GROUPS AT 2 MILES, 3 MILES, AND 4 MILES.

THE CONTRACTOR SHALL HAVE AN ADDITIONAL EXTRA ADVANCE WARNING SIGN GROUP (6 SIGNS AND 2 DISTANCE PLATES) AVAILABLE FOR USE WHEN DIRECTED BY THE ENGINEER. THE DISTANCE PLATES FOR THIS GROUP SHALL BE ABLE TO BE MODIFIED IN THE FIELD TO SHOW APPROPRIATE WHOLE MILES TO THE LANE TAPER.)

PAYMENT FOR PROVIDING, ERECTING, MAINTAINING AND REMOVING EXTRA ADVANCE WARNING SIGN GROUPS SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 - MAINTAINING TRAFFIC.

ITEM 614 - WORK ZONE PAVEMENT MARKING, MISC.: YIELD LINE

THIS ITEM SHALL CONSIST OF INSTALLING YIELD LINE MARKING CONFORMING TO CMS ITEM 641.

ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS REQUIRED TO INSTALL YIELD LINE MARKING SHALL BE PAID WITH ITEM 614 - WORK ZONE PAVEMENT MARKING, MISC.: YIELD LINE.

EARTHWORK FOR MAINTAINING TRAFFIC

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

EXCAVATION FOR MAINTAINING TRAFFIC	385	CY
EMBANKMENT FOR MAINTAINING TRAFFIC	69	CY
GUARDRAIL FOR MAINTAINING TRAFFIC	300	FT
ANCHOR ASSEMBLY TYPE B	1	EACH
BRIDGE TERMINAL ASSEMBLY TYPE 1	1	EACH
GUARDRAIL REMOVED	75	FT

DESIGNATED LOCAL DETOUR ROUTES

DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THE DETOUR ROUTES IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST AND STANDING WATER. ONCE THE DETOURS ARE REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DESIGNATED LOCAL DETOUR ROUTES SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO THEIR USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DETERMINED BY THE ENGINEER.

PAVEMENT REPAIR BUILD-UP
ITEM 203 - EXCAVATION
ITEM 304 - AGGREGATE BASE
ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (441) (3")
ITEM 255 - FULL DEPTH PAVEMENT SAWING
ITEM 255 - FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, TYPE 1, CLASS QC RS, AS PER PLAN A
ITEM 255 - FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, TYPE 1, CLASS QC RS, AS PER PLAN B

QUANTITIES HAVE BEEN PROVIDED FOR USE AS DIRECTED BY THE ENGINEER TO REPAIR PAVEMENT THAT HAS BEEN USED FOR MAINTENANCE OF TRAFFIC. SEE TABLE ENTITLED "DESIGNATED LOCAL DETOUR ROUTES" ON THIS SHEET.

SINGLE LANE CLOSURES SHALL BE IMPLEMENTED DURING OFF PEAK HOURS AND HOLIDAY/SPECIAL EVENT RESTRICTIONS APPLY TO THE CLOSURES. SEE NOTE "ITEM 614 - MAINTAINING TRAFFIC". ALL LANE CLOSURES SHOULD BE DONE IN ACCORDANCE WITH OHIO DEPARTMENT OF TRANSPORTATION STANDARDS AS DESCRIBED IN BOTH THE CMS AND STANDARD CONSTRUCTION DRAWINGS. AT THE END OF WORKDAY, TRAFFIC GRADE STEEL PLATES SHALL BE PLACED OVER ANY PORTION OF THE TRENCH NOT RESTORED BACK TO GRADE OR NOT RESTORED BACK TO A MANNER SUITABLE FOR TRAFFIC AND ALL LANES SHALL BE OPENED.

THE FOLLOWING INFORMATION IS PROVIDED FOR INFORMATION:

EXISTING ROAD	EXISTING PAVEMENT THICKNESS			
	ASPHALT	CONCRETE	BRICK	AGGREGATE BASE
CARNEGIE AVENUE	3" ±	12" ±		6" ±
CEDAR AVENUE	3" ±	9" ±		6" ±
CENTRAL AVENUE	3" ±	9" ±		6" ±
COMMUNITY COLLEGE AVENUE	3.25" ±	9" ±		4" ±
ORANGE AVENUE	3" ±	9" ±		6" ±
WOODLAND AVENUE	3" ±	9" ±		6" ±
E. 9TH STREET	3" ±	9" ±		6" ±
E. 14TH STREET	3" ±	8" ±	4" ±	4" ±
E. 18TH STREET	3" ±	8" ±		
E. 19TH STREET	3" ±	9" ±		
E. 22ND STREET	3" ±	9" ±		2" ±
E. 30TH STREET	3" ±	9" ±		6" ±
RAMP B5		9" ±		6" ±
RAMP E-10	3" ±	9" ±		6" ±
RAMP E-11	3" ±	9" ±		6" ±
RAMP E-13	3" ±	9" ±		6" ±
RAMP E-17	3" ±	9" ±		6" ±
IR 77	5" ±	9" ±		6" ±
IR 90 (EAST LIMITS)		10" ±		6" ±
IR 90 (WEST LIMITS)		10" ±		6" ±

1	10/13/25	ADD MAINTAINING TRAFFIC, MISC. NOTE

MAINTENANCE OF TRAFFIC NOTES

DESIGN AGENCY

DESIGNER TJF
REVIEWER PRS 7-28-25
PROJECT ID 119380
SHEET P.26 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/13/2025 TIME: 8:22:15 AM USER: SMorr
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MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION (CONTINUED)

IN THE EVENT NEW SIGNALS ARE DAMAGED PRIOR TO ACCEPTANCE, ALL DAMAGED EQUIPMENT EXCEPT POLES AND CONTROL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK IN SERVICE WITHIN 8 HOURS AFTER THE CONTRACTOR'S NOTIFICATION OF THE OUTAGE. THE CONTRACTOR SHALL ARRANGE FOR FULL TRAFFIC CONTROL UNTIL THE SIGNAL IS BACK IN OPERATION.

IF POLES AND/OR CONTROL EQUIPMENT ARE DAMAGED AND MUST BE REPLACED, THE CONTRACTOR SHALL MAKE TEMPORARY REPAIRS AS NECESSARY TO BRING THE SIGNAL BACK INTO FULL OPERATION WITHIN THE ALLOWED 8-HOUR PERIOD, AND SHALL MAKE PERMANENT REPAIRS OR REPLACEMENT AS SOON THEREAFTER AS POSSIBLE.

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

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

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

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

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

1. WOODLAND AVE. EXIT RAMP TEMPORARY SIGNAL
2. E. 14TH ST. AT ORANGE AVE. SIGNAL
3. E. 22ND ST. AT ORANGE AVE. SIGNAL
4. E. 30TH ST. AT ORANGE AVE. SIGNAL
5. PROSPECT ST. AT E. 30TH ST. SIGNAL
6. CARENGIE AVE. AT E. 21ST/22ND ST. SIGNAL

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

THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS OF MALFUNCTIONS INCLUDING:

1. TIME OF NOTIFICATION OF MALFUNCTION;
2. TIME OF WORK CREWS ARRIVAL TO CORRECT THE MALFUNCTION;
3. ACTIONS TAKEN TO CORRECT THE MALFUNCTION, INCLUDING A LIST OF PARTS REPAIRED OR REPLACED;
4. A DIAGNOSIS OF REASON FOR THE MALFUNCTION AND PROBABILITY OF REOCCURRENCE;
5. TIME OF COMPLETION OF THE REPAIR AND SYSTEM RESTORED TO FULL SERVICE.

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

ALL COSTS RESULTING FROM THE ABOVE REQUIREMENTS AND ANY MODIFICATIONS AND OR ADJUSTMENTS TO SIGNALS SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 - MAINTAINING TRAFFIC.

CITY OF CLEVELAND TRAFFIC SIGNALS CONTACT:

CITY OF CLEVELAND
DIVISION OF TRAFFIC ENGINEERING
ATTN: DOMINIC MARTINO/RICH TUTIE
601 LAKESIDE AVE., RM 25
CLEVELAND, OH 44114
(216) 420-8273/(216) 420-8274

TRAFFIC INCIDENT MANAGEMENT (TIM) DURING MOT

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

1. SUPERINTENDENT SHALL IDENTIFY THE INDIVIDUAL PERSONS ON THE PROJECT WHO WILL, OR MAY NEED TO, PERFORM THE DUTIES HEREIN. AT A MINIMUM, INCLUDE THE SUPERINTENDENT, FOREMEN AND SUPERVISORS (OR EQUIVALENT) AS WELL AS THE WORKSITE TRAFFIC SUPERVISOR (WTS; IF APPLICABLE TO THE PROJECT). THESE INDIVIDUALLY IDENTIFIED PERSONS SHALL COLLECTIVELY BE KNOWN AS CONTRACTOR TRAFFIC INCIDENT MANAGEMENT (TIM) CONTACTS. NOTIFY THE PROJECT ENGINEER OF THE CONTRACTOR TIM CONTACTS (ALONG WITH CONTACT INFORMATION FOR EACH) AT OR BEFORE THE PRECONSTRUCTION MEETING.
2. SUPERINTENDENT SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY CONTRACTOR TIM CONTACT IS ADDED, REMOVED OR THE CONTACT INFORMATION CHANGES OVER THE COURSE OF THE PROJECT.
3. PRIOR THE FIRST DAY OF WORK IN THE FIELD, EACH CONTRACTOR TIM CONTACT ON THE PROJECT SHALL HAVE ATTENDED AND SUCCESSFULLY COMPLETED OHIO TIM TRAINING PROVIDED BY THE DEPARTMENT OR DESIGNEE. TRAINING INFORMATION CAN BE FOUND AT WWW.OHIOTIM.COM.
4. SUPERINTENDENT, AT A MINIMUM, SHALL ATTEND AND ACTIVELY PARTICIPATE IN A DEPARTMENT SCHEDULED TIM MEETING BEFORE CONSTRUCTION WORK BEGINS AND BEFORE EACH PHASE CHANGE. THESE MEETINGS WILL RESULT IN A DEPARTMENT ISSUED PROJECT SPECIFIC TRAFFIC INCIDENT MANAGEMENT PLAN (TIMP). AT THE TIM MEETINGS THE ATTENDING CONTRACTOR TIM CONTACTS SHALL:
   A. COLLABORATE WITH ODOT AND SAFETY FORCES;
   B. SHARE PROJECT SPECIFIC DETAILS THAT IMPACT TIM RESPONDERS; AND
   C. RECOMMEND WAYS TO INCORPORATE NECESSARY EMERGENCY ACCESS AND OTHER TIM ELEMENTS FOR TIM RESPONDERS GIVEN PROJECT SPECIFIC WORK BEING COMPLETED AND PROJECT SPECIFIC PHASING.
5. CONTRACTOR TIM CONTACTS SHALL IMPLEMENT COMPONENTS OF THE RESULTING TIMP (SUCH AS APPROVED EMERGENCY INGRESS/EGRESS POINTS, ETC), AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH 109.05.
6. CONTRACTOR TIM CONTACTS SHALL PERFORM, AT A MINIMUM, THE FOLLOWING FUNCTIONS WHEN AN INCIDENT/CRASH OCCURS:
   A. IF OBSERVED OR PRESENT WHEN OCCURS, CALL 911 AND THEN NOTIFY THE TRAFFIC MANAGEMENT CENTER (TMC) TO PROVIDE THE FOLLOWING:
      I. LOCATION, INCLUDING MILEPOST NUMBER AND DIRECTION OF TRAVEL
      II. NUMBER AND TYPE OF VEHICLES INVOLVED, IF KNOWN
      III. ESTIMATED EXTENT OF DAMAGE OR INJURY, IF KNOWN
      IV. ESTIMATED NUMBER OF PATIENTS INVOLVED, IF KNOWN
      V. ANY POTENTIAL HAZARDOUS CONDITIONS, IF KNOWN
      VI. THE PLACARD NUMBER ON ANY HAZARDOUS MATERIALS PLACARD FROM A SAFE DISTANCE, IF APPLICABLE AND VISIBLE
   B. FOLLOWING AN INCIDENT/CRASH:
      I. INITIATE TRAFFIC MANAGEMENT/PROVIDE TEMPORARY TRAFFIC CONTROL AS INDICATED IN THE TIMP, AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH 109.05.
      II. RECOMMEND ROADWAY REPAIR NEEDS.
      III. PROVIDE REPAIR RESOURCES AND INITIATE REPAIRS, AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH 109.05.
      IV. ATTEND AND PARTICIPATE IN AN AFTER ACTION REVIEW (AAR).

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

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

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

RAISED PAVEMENT MARKERS IN USE DURING THE SNOW-PLOWING SEASON SHALL CONFORM TO 621.

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

THE SNOW-PLOWING SEASON SHALL RUN FROM NOVEMBER 1 THROUGH MARCH 31.

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

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

WORK ZONE QUEUE DETECTION WARNING SYSTEM

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

THE PROBABLE INITIAL LOCATIONS OF THE WZQDWS DEVICES ARE SHOWN ON SHEET(S) 108 OF THE PLAN. IT IS EXPECTED THAT THESE LOCATIONS WILL VARY BASED ON PLANNED OR UNPLANNED PHASE AND TRAFFIC PATTERN CHANGES. PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE DEVICES BY THE CONTRACTOR SHALL BE DIRECTED BY THE ENGINEER.

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

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

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

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

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

ITEM 896 - PORTABLE NON-INTRUSIVE TRAFFIC SENSOR, CLASS I, (ASSUMING 6 SENSORS FOR 4 MONTHS & 3 SENSORS FOR 12 MONTHS) 60 SNMT

ITEM 896 - PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN (ASSUMING 2 PCMS FOR 4 MONTHS & 1 PCMS FOR 12 MONTHS) 20 SNMT

1

ITEM 622 - BARRIER, MISC.: TEMPORARY MEDIAN BARRIER TRANSITION

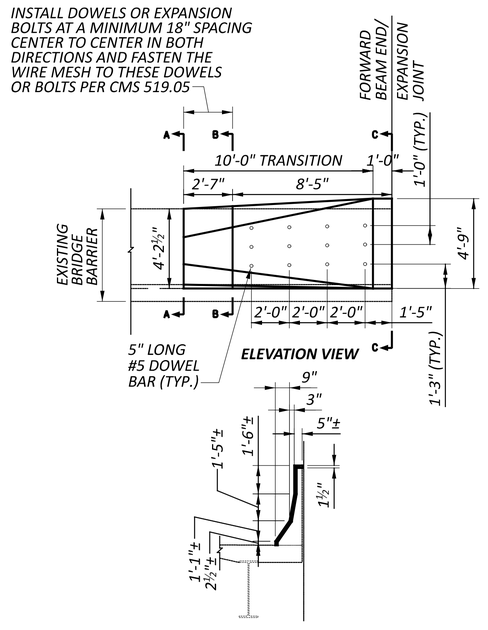
THIS ITEM SHALL INCLUDE THE CONSTRUCTION OF A TEMPORARY MEDIAN BARRIER TRANSITION BETWEEN THE EXISTING MEDIAN BARRIER ON THE BRIDGE STRUCTURE AND THE PROPOSED BACKWALL MEDIAN BARRIER AT THE NORTHBOUND FORWARD ABUTMENTS OF CUY-77-15.46 (IR 77 OVER WOODLAND AVENUE), CUY-77-15.62 (IR 77 OVER 22nd STREET) AND CUY-77-15.75 (IR 77 OVER 14th STREET). THIS BARRIER TRANSITION WILL BE CONSTRUCTED PRIOR TO THE COMPLETION OF THE SOUTHBOUND PHASE 1 CONSTRUCTION AND PRIOR TO THE REMOVAL OF THE PORTABLE BARRIER ALONG THE NORTHBOUND SHOULDER. THE BARRIER TRANSITION SHALL BE PER CMS 519 AND THE DETAILS BELOW WITH THE FOLLOWING EXCEPTIONS:

1. REMOVE 1 ¾" FROM THE FACE OF THE BARRIER IN THE TRANSITION AREA.
2. PROVIDE ¾"MINIMUM CLEARANCE FROM THE FACE OF THE EXISTING CONCRETE TO THE PROPOSED MESH.
3. PROVIDE 1"CLEARANCE FROM THE FACE OF THE PROPOSED BARRIER TO THE PROPOSED MESH.

THE CONCRETE SHALL BE CLASS QC 5 WITH A MAXIMUM NO. 4 AGGREGATE SIZE (100% PASSING THROUGH A NO. 4 SIEVE).

REINFORCING STEEL SHALL BE PER CMS 509 AND SHALL BE EPOXY COATED, BLACK OR GALVANIZED.

ALL COSTS INCLUDING LABOR, MATERIALS, TOOLS, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED WITH ITEM 622 BARRIER, MISC.: TEMPORARY MEDIAN BARRIER TRANSITION FOR PAYMENT.



TEMPORARY BARRIER TRANSITION

1	10/13/25	REMOVE 12" CONDUIT, TYPE B, APP NOTE

MAINTENANCE OF TRAFFIC NOTES

DESIGN AGENCY

DESIGNER TJF

REVIEWER PRS 7-28-25

PROJECT ID 119380

SHEET P.30 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/14/2025 TIME: 8:41:15 AM USER: SMorr
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\MOT\Sheets\119380_MN009.dgn

MAINTENANCE OF TRAFFIC SUBSUMMARY

SHEET NO.	STATION FROM	STATION TO	SIDE	254 PAVEMENT PLANING, ASPHALT CONCRETE (THICKNESS = 1 ½") SY	407 NON-TRACKING TACK COAT GAL	442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN, PG64-22, 1½" CY	SPECIAL - WORK ZONE TRAFFIC SIGNAL EACH	INCREASED BARRIER DELINEATION FT	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL) EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN EACH	BARRIER REFLECTOR, TYPE 1 (ONE-WAY) EACH	BARRIER REFLECTOR, TYPE 1 (BI-DIRECTIONAL) EACH	BARRIER REFLECTOR, TYPE 2 (ONE-WAY) EACH	OBJECT MARKER, ONE WAY EACH	OBJECT MARKER, TWO WAY EACH	614 MAINTAINING TRAFFIC, MISC.: DOTTED LINE, CLASS I, 12", 807 PAINT FT	614 WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT FT	614 WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT FT	614 WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT FT WHITE	614 WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT FT YELLOW	614 WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT FT WHITE	614 WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT FT YELLOW	614 WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT FT	614 WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT FT	614 WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT FT	614 WORK ZONE DOTTED LINE, CLASS I, 6", 642 PAINT FT	614 WORK ZONE DOTTED LINE, CLASS I, 12", 642 PAINT FT	614 WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I FT	614 WORK ZONE STOP LINE, CLASS I FT	614 WORK ZONE CROSSWALK LINE, CLASS I, 12" FT	614 WORK ZONE GORE MARKING, CLASS II FT	614 WORK ZONE ARROW CLASS I EACH	614 WORK ZONE WORD ON PAVEMENT, 96", CLASS I EACH	614 WORK ZONE PAVEMENT MARKING, MISC: YIELD LINE FT	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A SY	618 RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE) FT	622 PORTABLE BARRIER, UNANCHORED FT	622 PORTABLE BARRIER, ANCHORED FT	622 BARRIER, MISC.: TEMPORARY MEDIAN BARRIER TRANSITION EACH	642 REMOVAL OF PAVEMENT MARKING FT
	SB PHASE 1																																						
	IR 77 SB																																						
	EX. RUMBLE STRIP REMOVAL																																						
44-45	55+30.00	62+37.00	LT	196.39	17.68	8.18																															707.00			
45	64+25.00	65+90.00	LT	45.83	4.12	1.91																																		
45-46	68+10.00	73+65.00	LT	154.17	13.88	6.42																																		
46	75+75.00	80+09.00	LT	120.56	10.85	5.02																																		
	PAVEMENT MARKING																																						
44-45	47+50.00	62+37.00	LT																	1487.00	1487.00			1487.00														3752.40
45	62+37.00	63+34.61	LT																		97.61			195.22														282.82
45	63+34.61	65+50.00	LT																		215.39			215.39														514.68
45-46	65+50.00	79+00.00	LT																1350.00	1350.00	1350.00																	2700.00
46	79+00.00	83+00.00	LT																	400.00	400.00																	400.00
	RAISED PAVEMENT MARKERS																																						
44-45	47+50.00	63+34.61	LT							241																													
45	63+34.61	65+50.00	LT							23																													
45-46	65+50.00	79+00.00	LT							18																													
	PORTABLE BARRIER																																						
45	62+30.00	65+60.00	LT					320.00				8			8																							330.00			
45	65+60.00	67+80.00	LT									6			6																								220.00		
45	67+80.00	69+00.00	LT									4			4																							120.00			
45	69+00.00	71+24.00	LT					50.00	1			6			6																							200.00			
46	72+80.00	73+60.00	LT									3			3																							80.00			
46	73+60.00	75+80.00	LT									6			6																								220.00		
46	75+80.00	76+30.00	LT									2			2																							50.00			
46	76+30.00	78+02.00	LT					30.00	1			5			5																							172.00			
46	79+67.00	80+47.00	LT									3			3																							80.00			
46	80+47.00	82+17.00	LT									5			5																								170.00		
46	82+17.00	83+00.00	LT					60.00				3			3																								87.00		
	EXISTING OUTSIDE BARRIER																																						
45-46	65+50.00	79+00.00	LT					325.00					28	28																										
46	80+09.00	83+00.00	LT					291.00					7	7																										
	MEDIAN BARRIER TRANSITION																																						
45	67+22.68	67+33.68	RT																																				1	
46	75+61.05	75+72.05	RT																																				1	
46	82+14.03	82+25.03	RT																																				1	
	RAMP F-3																																						
	PAVEMENT MARKING																																						
45	0+75.91	2+91.22	RT																	215.31																		215.31
45	2+91.22	3+88.00	LT/RT																	96.78				96.78														96.78
	RAMP E-10																																						
	PAVEMENT MARKING																																						
47	1+00.00	6+33.75	LT/RT																	533.75	533.75					533.75												533.75
46-47	6+33.75	17+38.18	LT/RT																	1104.43	1104.43																	1104.43
	RAISED PAVEMENT MARKERS																																						
47	1+00.00	3+33.75	LT							4																													
46-47	3+33.75	15+81.75	LT							142																													
	TOTALS CARRIED TO SHEET 38			516.95	46.53	21.53		1076.00	2	428		51	35	35	51		1350		5187.27	5188.18			1994.39		533.75					56.00					707.00	1032.00	697.00	3	9600.17

⚠	DATE	DESCRIPTION
1	10/13/25	ADD 642/MISC. MARKING/RECALCULATE TOTALS

DESIGN AGENCY

DESIGNER TJF

REVIEWER RJM 7-28-25

PROJECT ID 119380

SHEET P.31 | TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/13/2025 TIME: 9:23:06 AM USER: SMorr
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\MOT\Sheets\119380_MS001.dgn

SHEET NO.	STATION FROM	STATION TO	SIDE	254 PAVEMENT PLANING, ASPHALT CONCRETE (THICKNESS = 1 ½") SY	407 NON-TRACKING TACK COAT GAL	442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN, PG64-22, 1½" CY	SPECIAL - WORK ZONE TRAFFIC SIGNAL EACH	INCREASED BARRIER DELINEATION FT	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL) EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN EACH	BARRIER REFLECTOR, TYPE 1 (ONE-WAY) EACH	BARRIER REFLECTOR, TYPE 1 (BI-DIRECTIONAL) EACH	BARRIER REFLECTOR, TYPE 2 (ONE-WAY) EACH	OBJECT MARKER, ONE WAY EACH	OBJECT MARKER, TWO WAY EACH	614 MAINTAINING TRAFFIC, MISC.: DOTTED LINE, CLASS I, 12", 807 PAINT FT	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT FT	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT FT	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT FT WHITE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT FT YELLOW	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT FT WHITE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT FT YELLOW	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT FT	WORK ZONE DOTTED LINE, CLASS I, 6", 642 PAINT FT	WORK ZONE DOTTED LINE, CLASS I, 12", 642 PAINT FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I FT	WORK ZONE STOP LINE, CLASS I FT	WORK ZONE CROSSWALK LINE, CLASS I, 12" FT	WORK ZONE GORE MARKING, CLASS II FT	WORK ZONE ARROW CLASS I EACH	WORK ZONE WORD ON PAVEMENT, 96", CLASS I EACH	WORK ZONE PAVEMENT MARKING, MISC: YIELD LINE FT	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A SY	618 RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE) FT	622 PORTABLE BARRIER, UNANCHORED FT	PORTABLE BARRIER, ANCHORED FT	BARRIER, MISC.: TEMPORARY MEDIAN BARRIER TRANSITION EACH	642 REMOVAL OF PAVEMENT MARKING FT
	SB PHASE 1 (CONT.)																																						
	PORTABLE BARRIER																																						
46	*15+87.93*	*16+22.00*	*LT*						*1*																											*10.00*		
46	*16+22.00*	*17+38.18*	*LT*									*4*			*4*																					*113.00*		
	EXISTING OUTSIDE BARRIER																																						
46-47	*13+00.00*	*17+38.18*	*RT*					*438.18*					*10*	*10*																										
	SB PHASE 1A (NB WORK)																																						
	IR 77 NB																																						
	PAVEMENT MARKING																																						
41-42	*12+34.00*	*23+58.00*	*RT*													*1124.00*																					*1124.00*	
42	*23+58.00*	*33+74.00*	*RT*													*1016.00*	*1016.00*		*1016.00*																	*3048.00*	
42-43	*33+74.00*	*38+59.94*	*RT*														*485.94*		*485.94*					*485.94*												*1457.82*	
43	*38+59.94*	*42+00.00*	*RT*																					*340.06*								*131.55*					*340.06*	
43	*42+00.00*	*46+89.29*	*RT*														*489.29*		*489.29*	*489.29*																	*489.29*	
43-44	*46+89.29*	*52+89.29*	*RT*																*600.00*	*600.00*						*600.00*											*1200.00*	
44-45	*52+89.29*	*60+78.69*	*RT*																*789.40*	*789.40*																	*1578.80*	
45	*60+78.69*	*63+57.73*	*RT*																	*279.04*				*279.04*													*558.08*	
45-46	*63+57.73*	*74+00.00*	*RT*																*1042.27*	*1042.27*						*1042.27*											*2084.54*	
46	*74+00.00*	*81+00.00*	*RT*																*700.00*	*700.00*																	*700.00*	
	PORTABLE BARRIER																																						
45	*61+64.29*	*62+69.40*	*RT*					*50.00*	*1*			*4*			*4*																					*80.00*		
45-46	*62+69.40*	*81+00.00*	*RT*					*575.00*				*38*			*38*																					*1830.60*		
	RAISED PAVEMENT MARKERS																																						
41-42	*12+34.00*	*23+58.00*	*RT*							*16*																													
42-43	*23+58.00*	*38+59.94*	*RT*							*39*																													
43-44	*42+00.00*	*56+91.47*	*RT*							*20*																													
45-46	*63+57.73*	*74+00.00*	*RT*							*15*																													
	EXISTING OUTSIDE BARRIER																																						
42-43	*32+00.00*	*38+59.94*	*RT*										*15*	*15*																										
	RAMP S-E																																						
	PAVEMENT MARKING																																						
43	*0+00.00*	*3+50.00*	*LT*														*350.00*		*350.00*					*350.00*													*700.00*	
43	*3+50.00*	*9+33.00*	*LT*														*583.00*		*583.00*	*583.00*														*4*			*1166.00*	
43-44	*9+33.00*	*10+42.42*	*LT/RT*																*109.42*	*109.42*				*109.42*										*2*			*218.84*	
44	*10+42.42*	*10+96.94*	*LT/RT*																	*54.52*				*54.52*											*1*			*54.52*	
44	*10+96.94*	*11+53.90*	*LT/RT*																*56.96*	*56.96*				*35.09*								*24.40*	*49.60*		*2*			*24.40*	
44	*12+87.00*	*12+87.00*	*LT/RT*																													*31.91*							
	RIGHT ONTO WOODLAND AVE																																						
44	*10+42.42*	*11+34.04*	*RT*																*188.43*	*59.13*													*70.46*			*14.24*			*14.24*	
	RAISED PAVEMENT MARKERS																																						
43	*0+00.00*	*11+32.00*	*LT*							*16*																													
	EX. RUMBLE STRIP REMOVAL																																						
43-44	*0+00.00*	*11+53.84*	*LT/RT*	*320.51*	*28.85*	*13.35*																															*1153.84*		
	TRAFFIC SIGNAL																																						
44	*11+50.33*	*11+94.07*	*LT/RT*				*1*																																
	EXISTING OUTSIDE BARRIER																																						
43	*0+00.00*	*0+53.43*	*RT*									*3*			*3*																									
43	*0+53.43*	*7+12.47*	*RT*										*15*	*15*																										
TOTALS CARRIED TO SHEET		**38**		*320.51*	*28.85*	*13.35*	*1*	*1063.18*	*2*	*106*		*49*	*40*	*40*	*49*	*2140*	*2924.23*		*6410.71*	*4763.03*				*1654.07*		*1642.27*				*56.31*	*120.06*	*131.55*	*8*	*1*	*14.24*		*1153.84*	*2033.60*			*14758.59*

1 — 10/13/25 — ADD 642/MISC. MARKING/RECALCULATE TOTALS

MAINTENANCE OF TRAFFIC SUBSUMMARY

DESIGN AGENCY

DESIGNER TJF

REVIEWER RJM 7-28-25

PROJECT ID 119380

SHEET P.32 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/13/2025 TIME: 11:16:24 AM USER: SMorr
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\MOT\Sheets\119380_MS002.dgn

MAINTENANCE OF TRAFFIC SUBSUMMARY

SHEET NO.	STATION FROM	STATION TO	SIDE	254 PAVEMENT PLANING, ASPHALT CONCRETE (THICKNESS = 1 ½") SY	407 NON-TRACKING TACK COAT GAL	442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN, PG64-22, 1½" CY	614 SPECIAL - WORK ZONE TRAFFIC SIGNAL EACH	INCREASED BARRIER DELINEATION FT	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL) EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN EACH	BARRIER REFLECTOR, TYPE 1 (ONE-WAY) EACH	BARRIER REFLECTOR, TYPE 1 (BI-DIRECTIONAL) EACH	BARRIER REFLECTOR, TYPE 2 (ONE-WAY) EACH	OBJECT MARKER, ONE WAY EACH	OBJECT MARKER, TWO WAY EACH	MAINTAINING TRAFFIC, MISC.: DOTTED LINE, CLASS I, 12", 807 PAINT FT	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT FT	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT FT	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT FT		WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT FT		WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT FT	WORK ZONE DOTTED LINE, CLASS I, 6", 642 PAINT FT	WORK ZONE DOTTED LINE, CLASS I, 12", 642 PAINT FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I FT	WORK ZONE STOP LINE, CLASS I FT	WORK ZONE CROSSWALK LINE, CLASS I, 12" FT	WORK ZONE GORE MARKING, CLASS II FT	WORK ZONE ARROW CLASS I EACH	WORK ZONE WORD ON PAVEMENT, 96", CLASS I EACH	WORK ZONE PAVEMENT MARKING, MISC: YIELD LINE FT	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A SY	618 RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE) FT	622 PORTABLE BARRIER, UNANCHORED FT	PORTABLE BARRIER, ANCHORED FT	BARRIER, MISC.: TEMPORARY MEDIAN BARRIER TRANSITION EACH	642 REMOVAL OF PAVEMENT MARKING FT
																				WHITE	YELLOW	WHITE	YELLOW																
	SB PHASE 1A (NB WORK) (CONT.)																																					
	WOODLAND AVE. EB																																					
	PAVEMENT MARKING																																					
44	5+85.61		LT/RT																																			
	WOODLAND AVE. WB																																					
	PAVEMENT MARKING																																					
44	10+73.66		LT/RT																																			
	TRAFFIC SIGNAL																																					
44	11+36.57	11+68.75	LT/RT				1																															
	RAMP F-4																																					
	PAVEMENT MARKING																																					
45	6+31.00	9+14.77	LT																	283.77				283.77														567.54
	RAMP E-17																																					
	PAVEMENT MARKING																																					
46	0+00.00	2+68.00	LT																	268.00	268.00																	536.00
46-47	2+68.00	6+49.40	LT																	381.40	381.40			381.40														1144.20
	PORTABLE BARRIER																																					
46-47	0+00.00	5+99.40	LT					599.40				13			13																							599.40			
	TEMPORARY PAVEMENT																																					
46	1+18.76	1+24.32	LT																																	3.79				
46	1+24.32	1+69.89	LT																																	86.45				
46	1+69.89	2+61.62	LT																																	250.8				
46	2+61.62	3+37.02	LT																																	245.93				
46-47	3+37.02	4+18.97	LT																																	235.3				
47	4+18.97	5+04.62	LT																																	157.89				
47	5+04.62	5+46.92	LT																																	34				
47	5+46.92	5+93.17	LT																																	22.63				
	SB PHASE 2																																					
	IR 77 SB																																					
	EX. RUMBLE STRIP REMOVAL																																					
57	61+35.75	63+57.57	LT	61.62	5.55	2.57																													221.82				
57-58	68+93.81	73+00.00	LT	112.83	10.15	4.7																																	
	PAVEMENT MARKING																																					
56-57	50+50.00	62+35.75	LT																1185.75		1185.75	1185.75																2371.50
57	62+35.75	63+35.75	LT																		100.00	100.00																
57-58	63+35.75	83+00.00	LT																		1964.25	1964.25																
	PORTABLE BARRIER																																					
57	63+35.00	65+55.00	LT								6			6																							220.00			
57	65+55.00	67+65.00	LT								6			6																								210.00		
57-58	67+65.00	73+65.00	LT								13			13																							600.00			
58	73+65.00	75+75.00	LT					50.00			6			6																								210.00		
58	75+75.00	80+45.00	LT					470.00			11			11																							470.00			
58	80+45.00	82+25.00	LT					180.00			5			5																								180.00		
58	82+25.00	83+00.00	LT					75.00			3			3																							75.00			
	EXISTING INSIDE BARRIER																																					
57-58	61+35.75	83+00.00	LT					775.00				45			45																										
	TOTALS CARRIED TO SHEET 38			174.45	15.70	7.27	1	2149.40			50	58		50	58		1185.75		4183.17	3899.40			665.17					66.53					1036.79	221.82	1964.40	600.00		4619.24

1	10/13/25	ADD 642/MISC. MARKING/RECALCULATE TOTALS

DESIGN AGENCY

DESIGNER TJF

REVIEWER RJM 7-28-25

PROJECT ID 119380

SHEET P.33 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/13/2025 TIME: 9:28:55 AM USER: SMorr
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\MOT\Sheets\119380_MS003.dgn

MAINTENANCE OF TRAFFIC SUBSUMMARY

SHEET NO.	STATION FROM	STATION TO	SIDE	254 PAVEMENT PLANING, ASPHALT CONCRETE (THICKNESS = 1 ½") SY	407 NON-TRACKING TACK COAT GAL	442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN, PG64-22, 1½" CY	614 SPECIAL - WORK ZONE TRAFFIC SIGNAL EACH	614 INCREASED BARRIER DELINEATION FT	614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL) EACH	614 WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN EACH	614 BARRIER REFLECTOR, TYPE 1 (ONE-WAY) EACH	614 BARRIER REFLECTOR, TYPE 1 (BI-DIRECTIONAL) EACH	614 BARRIER REFLECTOR, TYPE 2 (ONE-WAY) EACH	614 OBJECT MARKER, ONE WAY EACH	614 OBJECT MARKER, TWO WAY EACH	614 MAINTAINING TRAFFIC, MISC.: DOTTED LINE, CLASS I, 12", 807 PAINT FT	614 WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT FT	614 WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT FT	614 WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT WHITE FT	614 WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT YELLOW FT	614 WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT WHITE FT	614 WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT YELLOW FT	614 WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT FT	614 WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT FT	614 WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT FT	614 WORK ZONE DOTTED LINE, CLASS I, 6", 642 PAINT FT	614 WORK ZONE DOTTED LINE, CLASS I, 12", 642 PAINT FT	614 WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I FT	614 WORK ZONE STOP LINE, CLASS I FT	614 WORK ZONE CROSSWALK LINE, CLASS I, 12" FT	614 WORK ZONE GORE MARKING, CLASS II FT	614 WORK ZONE ARROW CLASS I EACH	614 WORK ZONE WORD ON PAVEMENT, 96", CLASS I EACH	614 WORK ZONE PAVEMENT MARKING, MISC: YIELD LINE FT	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A SY	618 RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE) FT	622 PORTABLE BARRIER, UNANCHORED FT	622 PORTABLE BARRIER, ANCHORED FT	622 BARRIER, MISC.: TEMPORARY MEDIAN BARRIER TRANSITION EACH	642 REMOVAL OF PAVEMENT MARKING FT
	SB PHASE 2 (CONT.)																																							
	RAMP E-10																																							
	PAVEMENT MARKING																																							
59	1+00.00	6+40.00	LT/RT																		540.00	540.00																	1080.00
58-59	6+40.00	17+38.18	LT/RT																		1098.18	1098.18																	1098.18
	PORTABLE BARRIER																																							
58	15+14.89	17+38.18	LT/RT					98.18	1		6			6																							205.00			
	EXISTING INSIDE BARRIER																																							
58-59	1+00.00	17+38.18	LT									34				34																								
	SB PHASE 1B (NB WORK)																																							
	IR 77 NB																																							
	PAVEMENT MARKING																																							
56	50+91.47	56+91.47	RT															600.00			600.00																	1200.00
56-57	56+91.47	60+78.71	RT															387.24			387.24																	387.24
57-58	60+78.71	78+50.00	RT														1771.29				1771.29																	1771.29
58	78+50.00	81+00.00	RT														250.00			250.00	250.00																	500.00
	RAISED PAVEMENT MARKER																																							
56-58	56+91.47	81+00.00	RT							32																														245.78
	RAMP E-17																																							1504.05
	PAVEMENT MARKING																																							
58	0+00.00	1+22.89	LT														122.89			122.89	122.89																	
58-59	1+22.89	6+24.24	LT																	501.35	501.35			501.35														
	RAISED PAVEMENT MARKER																																							
58-59	0+00.00	6+24.24	LT							9																														
	WINTER PHASE 1																																							
	IR 77 SB																																							
	PAVEMENT MARKING																																							
196-197	47+50.00	62+22.52	LT																				1472.52	1472.52														
197	62+22.52	66+26.76	LT																					404.24		404.24											171.5	
197	66+26.76	70+93.16	LT																				466.40	466.40		466.40												
197-198	70+93.16	79+00.00	LT																				806.84	806.84			806.84											
198	79+00.00	82+96.30	LT																				396.30	396.30														
	RAMP F-3																																							
	PAVEMENT MARKING																																							
197	0+00.00	0+33.99	RT																				34.00															
197	0+33.99	3+88.00	RT																				354.00			354.01												
	RAMP E-10																																							
	PAVEMENT MARKING																																							
198-199	1+00.00	17+41.98	LT/RT																1641.98				1641.98	1641.98														
	IR 77 NB																																							
	PAVEMENT MARKING																																							
53-54	12+34.00	23+58.00	RT																																	1124.00			
54	23+58.00	33+74.00	RT																1016.00				1016.00													1016.00		
54-55	33+74.00	38+59.94	RT																485.94				485.94			485.94												
55	38+59.94	42+00.00	RT																							340.06											131.55	
55-57	42+00.00	60+78.71	RT																1878.71				1878.71	1878.71														
57	60+78.71	64+10.34	RT																					331.63		331.63												
57-58	64+10.34	74+00.00	RT																				989.66	989.66			989.66											
58	74+00.00	81+00.00	RT																				700.00	700.00														
	TOTALS CARRIED TO SHEET 38							98.18	1	41	6	34		6	34	2144.18	987.24	5022.63	2512.42	5270.95	10242.35	9088.28	501.35	2382.28	540.00	1796.50	4161.29	960.40			303.05					205.00			7786.54

1	10/13/25	ADD 642/MISC. MARKING/RECALCULATE TOTALS

DESIGN AGENCY

DESIGNER TJF

REVIEWER RJM 7-28-25

PROJECT ID 119380

SHEET P.34 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/13/2025 TIME: 11:18:36 AM USER: SMorr
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\MOT\Sheets\119380_MS004.dgn

SHEET NO.	STATION FROM	STATION TO	SIDE	254 PAVEMENT PLANING, ASPHALT CONCRETE (THICKNESS = 1 ½") SY	407 NON-TRACKING TACK COAT GAL	442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN, PG64-22, 1½" CY	SPECIAL - WORK ZONE TRAFFIC SIGNAL EACH	INCREASED BARRIER DELINEATION FT	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL) EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN EACH	BARRIER REFLECTOR, TYPE 1 (ONE-WAY) EACH	BARRIER REFLECTOR, TYPE 1 (BI-DIRECTIONAL) EACH	BARRIER REFLECTOR, TYPE 2 (ONE-WAY) EACH	OBJECT MARKER, ONE WAY EACH	OBJECT MARKER, TWO WAY EACH	614 MAINTAINING TRAFFIC, MISC.: DOTTED LINE, CLASS I, 12", 807 PAINT FT	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT FT	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT FT	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT FT WHITE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT FT YELLOW	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT FT WHITE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT FT YELLOW	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT FT	WORK ZONE DOTTED LINE, CLASS I, 6", 642 PAINT FT	WORK ZONE DOTTED LINE, CLASS I, 12", 642 PAINT FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I FT	WORK ZONE STOP LINE, CLASS I FT	WORK ZONE CROSSWALK LINE, CLASS I, 12" FT	WORK ZONE GORE MARKING, CLASS II FT	WORK ZONE ARROW CLASS I EACH	WORK ZONE WORD ON PAVEMENT, 96", CLASS I EACH	WORK ZONE PAVEMENT MARKING, MISC: YIELD LINE FT	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A SY	618 RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE) FT	622 PORTABLE BARRIER, UNANCHORED FT	PORTABLE BARRIER, ANCHORED FT	BARRIER, MISC.: TEMPORARY MEDIAN BARRIER TRANSITION EACH	642 REMOVAL OF PAVEMENT MARKING FT
	WINTER PHASE 1 (CONT.)																																							
	RAMP S-E																																							
	PAVEMENT MARKING																																							
55	0+00.00	3+50.00	LT															350.00		350.00			350.00																	
55	3+50.00	9+33.00	LT															583.00		583.00	583.00											4							
55-56	9+33.00	10+42.42	LT/RT																	109.42	109.42		109.42									2							
56	10+42.42	10+96.94	LT/RT																		54.52		54.52										1							
56	10+96.94	11+53.90	LT/RT																	56.96	56.96		35.09							24.40	49.60	2							
56	12+87.00	12+87.00	LT/RT																											31.91									
	RIGHT ONTO WOODLAND AVE																																							
56	10+42.42	11+34.04	RT																		188.43	59.13									70.46			14.24						
	WOODLAND AVE. EB																																							
	PAVEMENT MARKING																																							
56	5+85.61		LT/RT																											30.33									
	WOODLAND AVE. WB																																							
	PAVEMENT MARKING																																							
56	10+73.66		LT/RT																											36.20									
	RAMP F-4																																							
	PAVEMENT MARKING																																							
56	6+31.00	9+14.77	LT																		283.77			283.77																
	NB PHASE 1																																							
	IR 77 NB																																							
	EX. RUMBLE STRIP REMOVAL																																							
73-74	59+14.75	65+13.00	RT	166.18	14.96	6.92																															598.25				
74-75	67+30.00	73+65.00	RT	176.39	15.88	7.35																																			
75	75+73.00	80+52.00	RT	133.06	11.98	5.54																																			
	PAVEMENT MARKING																																							
70-71	12+34.00	23+58.00	RT														1124.00																								
71	23+58.00	33+74.00	RT														1016.00	1016.00		1016.00																				
71-72	33+74.00	38+59.94	RT															485.94		485.94				485.94																
72	38+59.94	42+00.00	RT																					340.06							131.55								
72-73	42+00.00	50+14.75	RT															814.75		814.75	814.75																		
73	50+14.75	56+14.75	RT																	600.00	600.00					600.00													
73-75	56+14.75	81+00.00	RT																	2485.25	2485.25																		2485.25
	RAISED PAVEMENT MARKERS																																							
70-71	12+34.00	23+58.00	RT							16																														
71-72	23+58.00	38+59.94	RT							39																														
72-73	42+00.00	56+14.75	RT							19																														
	PORTABLE BARRIER																																							
74	60+39.75	60+75.00	RT						1		2		2																								10.00			
74	60+75.00	63+55.00	RT					40.00			7		7																								280.00			
74	63+55.00	64+85.00	RT								4		4																								130.00			
74	64+85.00	67+05.00	RT								6		6																									220.00		
74-75	67+05.00	73+65.00	RT								15		15																								660.00			
75	73+65.00	75+75.00	RT								6		6																									210.00		
75	75+75.00	80+45.00	RT								11		11																								470.00			
75	80+45.00	81+00.00	RT								3		3																									55.00		
	EXISTING INSIDE BARRIER																																							
73-75	59+14.75	83+00.00	RT					775.00				49			49																										
	TOTALS CARRIED TO SHEET 38			475.63	42.82	19.81		815.00	1	74	54	49		54	49	2140.00	2316.69	933.00	5401.94	3900.00	1571.58	863.03	826.00	832.80	600.00			122.84	120.06	131.55	8	1	14.24		598.25	1550.00	485.00		2485.25

1	10/13/25	ADD 642/MISC. MARKING/RECALCULATE TOTALS

MAINTENANCE OF TRAFFIC SUBSUMMARY

DESIGN AGENCY

DESIGNER TJF

REVIEWER RJM 7-28-25

PROJECT ID 119380

SHEET P.35 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/13/2025 TIME: 11:19:53 AM USER: SMorr
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\MOT\Sheets\119380_MS005.dgn

SHEET NO.	STATION FROM	STATION TO	SIDE	254 PAVEMENT PLANING, ASPHALT CONCRETE (THICKNESS = 1 ½") SY	407 NON-TRACKING TACK COAT GAL	442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN, PG64-22, 1½" CY	SPECIAL - WORK ZONE TRAFFIC SIGNAL EACH	INCREASED BARRIER DELINEATION FT	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL) EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN EACH	BARRIER REFLECTOR, TYPE 1 (ONE-WAY) EACH	BARRIER REFLECTOR, TYPE 1 (BI-DIRECTIONAL) EACH	BARRIER REFLECTOR, TYPE 2 (ONE-WAY) EACH	OBJECT MARKER, ONE WAY EACH	OBJECT MARKER, TWO WAY EACH	614 MAINTAINING TRAFFIC, MISC.: DOTTED LINE, CLASS I, 12", 807 PAINT FT	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT FT	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT FT	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT FT WHITE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT FT YELLOW	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT FT WHITE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT FT YELLOW	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT FT	WORK ZONE DOTTED LINE, CLASS I, 6", 642 PAINT FT	WORK ZONE DOTTED LINE, CLASS I, 12", 642 PAINT FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I FT	WORK ZONE STOP LINE, CLASS I FT	WORK ZONE CROSSWALK LINE, CLASS I, 12" FT	WORK ZONE GORE MARKING, CLASS II FT	WORK ZONE ARROW CLASS I EACH	WORK ZONE WORD ON PAVEMENT, 96", CLASS I EACH	WORK ZONE PAVEMENT MARKING, MISC: YIELD LINE FT	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A SY	618 RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE) FT	622 PORTABLE BARRIER, UNANCHORED FT	622 PORTABLE BARRIER, ANCHORED FT	622 BARRIER, MISC.: TEMPORARY MEDIAN BARRIER TRANSITION EACH	642 REMOVAL OF PAVEMENT MARKING FT
	NB PHASE 1 (CONT.)																																							
	RAMP S-E																																							
	PAVEMENT MARKING																																							
72	*0+00.00*	*3+50.00*	*LT*															*350.00*		*350.00*				*350.00*															*700.00*
72	*3+50.00*	*9+33.00*	*LT*															*583.00*		*583.00*	*583.00*																		*1166.00*
72-73	*9+33.00*	*10+42.42*	*LT/RT*																	*109.42*	*109.42*			*109.42*															*218.84*
73	*10+42.42*	*10+96.94*	*LT/RT*																		*54.52*			*54.52*															*54.52*
73	*10+96.94*	*11+53.90*	*LT/RT*																	*56.96*	*56.96*			*35.09*							*24.40*	*49.60*		*2*						*24.40*
73	*12+87.00*	*12+87.00*	*LT/RT*																												*31.91*									
	RIGHT ONTO WOODLAND AVE																																							
73	*10+42.42*	*11+34.04*	*RT*																	*188.43*	*59.13*											*70.46*				*14.24*				
	RAISED PAVEMENT MARKERS																																							
72-73	*0+00.00*	*11+32.00*	*LT*								*16*																													
	WOODLAND AVE. EB																																							
	PAVEMENT MARKING																																							
73	*5+85.61*		*LT/RT*																												*30.33*									
	WOODLAND AVE. WB																																							
	PAVEMENT MARKING																																							
73	*10+73.66*		*LT/RT*																												*36.20*									
	RAMP E-17																																							
	PAVEMENT MARKING																																							
75	*0+00.00*	*2+65.00*	*LT*																	*265.00*	*265.00*																			
75-76	*2+65.00*	*6+00.00*	*LT*																	*335.00*	*335.00*			*335.00*															
	PORTABLE BARRIER																																							
75	*0+00.00*	*2+15.00*	*LT*								*6*			*6*																									*215.00*		
	GUARDRAIL																																							
75-76	*2+35.59*	*5+92.23*	*LT*					*356.64*					*9*	*9*																							*356.64*			
	NB PHASE 2																																							
	IR 77 NB																																							
	EX. RUMBLE STRIP REMOVAL																																							
84-85	*55+34.57*	*60+75.52*	*RT*	*150.26*	*13.52*	*6.26*																								*540.95*									
85-86	*68+93.81*	*73+00.00*	*RT*	*112.83*	*10.15*	*4.7*																																		
	PAVEMENT MARKING																																							
83-85	*43+75.45*	*71+63.31*	*RT*															*2787.86*		*2787.86*	*2787.86*																		*5575.72*
85-86	*71+63.31*	*76+63.31*	*RT*																	*500.00*	*500.00*			*500.00*															*1000.00*
86	*76+63.31*	*78+50.00*	*RT*																		*186.69*			*186.69*								*50.94*							*186.69*
86	*78+50.00*	*81+00.00*	*RT*																	*250.00*	*250.00*																		*250.00*
	RAISED PAVEMENT MARKERS																																							
83-85	*43+71.51*	*60+30.51*	*RT*							*250*																														
85-86	*60+30.51*	*76+63.31*	*RT*							*22*																														
TOTALS CARRIED TO SHEET 38				*263.09*	*23.67*	*10.96*		*356.64*		*288*	*6*		*9*	*15*			*2787.86*	*933.00*		*5425.67*	*5187.58*			*1570.72*					*122.84*	*120.06*	*50.94*	*8*	*1*	*14.24*		*540.95*	*356.64*	*215.00*		*9176.17*

MAINTENANCE OF TRAFFIC SUBSUMMARY

1	10/13/25	ADD 642/MISC. MARKING/RECALCULATE TOTALS

DESIGN AGENCY

DESIGNER TJF

REVIEWER RJM 7-28-25

PROJECT ID 119380

SHEET P.36 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/13/2025 TIME: 11:21:21 AM USER: SMorr
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\MOT\Sheets\119380_MS006.dgn

MAINTENANCE OF TRAFFIC SUBSUMMARY

SHEET NO.	STATION FROM	STATION TO	SIDE	254 PAVEMENT PLANING, ASPHALT CONCRETE (THICKNESS = 1 ½") SY	407 NON-TRACKING TACK COAT GAL	442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN, PG64-22, 1½" CY	SPECIAL - WORK ZONE TRAFFIC SIGNAL EACH	614 INCREASED BARRIER DELINEATION FT	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL) EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN EACH	BARRIER REFLECTOR, TYPE 1 (ONE-WAY) EACH	BARRIER REFLECTOR, TYPE 1 (BI-DIRECTIONAL) EACH	BARRIER REFLECTOR, TYPE 2 (ONE-WAY) EACH	OBJECT MARKER, ONE WAY EACH	OBJECT MARKER, TWO WAY EACH	MAINTAINING TRAFFIC, MISC.: DOTTED LINE, CLASS I, 12", 807 PAINT FT	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT FT	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT FT	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT FT WHITE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT FT YELLOW	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT FT WHITE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT FT YELLOW	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT FT	WORK ZONE DOTTED LINE, CLASS I, 6", 642 PAINT FT	WORK ZONE DOTTED LINE, CLASS I, 12", 642 PAINT FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I FT	WORK ZONE STOP LINE, CLASS I FT	WORK ZONE CROSSWALK LINE, CLASS I, 12" FT	WORK ZONE GORE MARKING, CLASS II FT	WORK ZONE ARROW CLASS I EACH	WORK ZONE WORD ON PAVEMENT, 96", CLASS I EACH	WORK ZONE PAVEMENT MARKING, MISC: YIELD LINE FT	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A SY	618 RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE) FT	622 PORTABLE BARRIER, UNANCHORED FT	PORTABLE BARRIER, ANCHORED FT	BARRIER, MISC.: TEMPORARY MEDIAN BARRIER TRANSITION EACH	642 REMOVAL OF PAVEMENT MARKING FT
	NB PHASE 2 (CONT.)																																							
	PORTABLE BARRIER																																							
85	*61+59.45*	*61+97.87*	*RT*						*1*			*2*			*2*																						*10*			
85	*61+97.87*	*63+57.50*	*RT*					*50.00*				*5*			*5*																						*160.00*			
85	*63+57.50*	*64+87.50*	*RT*									*4*			*4*																						*130.00*			
85	*64+87.50*	*67+07.50*	*RT*									*6*			*6*																							*220.00*		
85	*67+07.50*	*69+07.50*	*RT*									*5*			*5*																						*200.00*			
85	*71+15.13*	*71+50.38*	*RT*						*1*			*2*			*2*																						*10.00*			
85-86	*71+50.38*	*73+00.00*	*RT*					*50.00*				*4*			*4*																						*150.00*			
86	*73+00.00*	*73+60.00*	*RT*									*3*			*3*																						*60.00*			
86	*73+60.00*	*75+80.00*	*RT*					*55.00*				*6*			*6*																							*220.00*		
86	*75+80.00*	*80+50.00*	*RT*					*470.00*				*11*			*11*																						*470.00*			
86	*80+50.00*	*81+00.00*	*RT*					*50.00*				*2*			*2*																						*50.00*			
	EXISTING OUTSIDE BARRIER																																								
84	*54+50.00*	*55+49.00*	*RT*								*3*			*3*																											
84-85	*55+49.00*	*60+61.29*	*RT*										*12*	*12*																											
85	*64+12.37*	*66+79.07*	*RT*								*7*			*7*																											
85-86	*66+79.07*	*73+38.71*	*RT*										*15*	*15*																											
86	*73+38.71*	*75+98.48*	*RT*					*73.48*			*7*			*7*																											
86	*78+50.00*	*80+36.14*	*RT*					*186.14*					*5*	*5*																											
86	*80+36.14*	*81+00.00*	*RT*					*63.86*			*3*			*3*																											
	RAMP E-14																																							
	EX. RUMBLE STRIP REMOVAL																																							
86	*1+07.31*	*3+45.40*	*LT/RT*	*66.14*	*5.95*	*2.76*																																		
	PAVEMENT MARKING																																							
86	*1+41.96*	*3+45.40*	*LT/RT*																	*203.44*			*203.44*																*203.44*
	RAMP E-17																																							
	PAVEMENT MARKING																																							
86-87	*0+00.00*	*4+74.50*	*LT/RT*																	*474.50*	*474.50*																	*474.50*
87	*4+74.50*	*6+26.94*	*LT/RT*																	*152.44*	*152.44*					*152.44*												
	PORTABLE BARRIER																																							
86	*0+00.00*	*1+34.50*	*LT*					*130.00*				*4*			*4*																								*130.00*		
86-87	*1+34.50*	*2+14.50*	*LT*					*80.00*				*3*			*3*																						*80.00*			
	EXISTING OUTSIDE BARRIER																																							
86	*0+00.00*	*1+73.23*	*RT*								*5*			*5*																											
86	*1+73.23*	*2+18.92*	*RT*										*2*	*2*																											
	EX. RUMBLE STRIP REMOVAL																																							
86	*1+97.54*	*3+23.15*	*LT/RT*	*34.89*	*3.14*	*1.45*																																		
	WINTER PHASE 2																																							
	IR 77 NB																																							
	PAVEMENT MARKING																																							
193-194	*12+34.00*	*23+48.00*	*RT*															*1114.00*																					
194	*23+48.00*	*32+68.00*	*RT*															*920.00*			*920.00*					*920.00*												
194-195	*32+68.00*	*40+07.94*	*RT*															*739.94*			*739.94*					*739.94*												
195	*40+07.94*	*42+10.00*	*RT*																						*202.06*								*114.60*					
195-196	*42+10.00*	*49+88.87*	*RT*															*1557.74*			*778.87*	*778.87*																
196-197	*49+88.87*	*60+76.20*	*RT*															*1087.33*			*1087.33*	*1087.33*					*1087.33*										
197	*60+76.20*	*63+32.91*	*RT*																		*256.71*	*256.71*		*256.71*														
197	*63+32.91*	*69+95.36*	*RT*																		*662.45*	*662.45*				*662.45*	*1324.90*										
197	*69+95.36*	*71+28.87*	*RT*																		*133.51*	*133.51*					*267.02*										
TOTALS CARRIED TO SHEET 38				*101.03*	*9.09*	*4.21*		*1208.48*	*2*		*25*	*57*	*34*	*59*	*57*			*5419.01*	*830.38*	*626.94*	*4578.81*	*2918.87*	*203.44*	*458.77*	*152.44*	*2322.39*	*3192.67*			*114.60*					*132.00*	*570.00*		*677.94*

⚠	DATE	DESCRIPTION
1	10/13/25	ADD 642/MISC. MARKING/RECALCULATE TOTALS

DESIGN AGENCY

DESIGNER TJF

REVIEWER RJM 7-28-25

PROJECT ID 119380

SHEET P.37 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/13/2025 TIME: 9:46:02 AM USER: SMorr
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\MOT\Sheets\119380_MS007.dgn

SHEET NO.	STATION FROM	STATION TO	SIDE	254 PAVEMENT PLANING, ASPHALT CONCRETE (THICKNESS = 1 ½") SY	407 NON-TRACKING TACK COAT GAL	442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN, PG64-22, 1½" CY	SPECIAL - WORK ZONE TRAFFIC SIGNAL EACH	INCREASED BARRIER DELINEATION FT	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL) EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN EACH	BARRIER REFLECTOR, TYPE 1 (ONE-WAY) EACH	BARRIER REFLECTOR, TYPE 1 (BI-DIRECTIONAL) EACH	BARRIER REFLECTOR, TYPE 2 (ONE-WAY) EACH	OBJECT MARKER, ONE WAY EACH	OBJECT MARKER, TWO WAY EACH	614 MAINTAINING TRAFFIC, MISC.: DOTTED LINE, CLASS I, 12", 807 PAINT FT	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT FT	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT FT	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT FT WHITE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT FT YELLOW	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT FT WHITE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT FT YELLOW	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT FT	WORK ZONE DOTTED LINE, CLASS I, 6", 642 PAINT FT	WORK ZONE DOTTED LINE, CLASS I, 12", 642 PAINT FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I FT	WORK ZONE STOP LINE, CLASS I FT	WORK ZONE CROSSWALK LINE, CLASS I, 12" FT	WORK ZONE GORE MARKING, CLASS II FT	WORK ZONE ARROW CLASS I EACH	WORK ZONE WORD ON PAVEMENT, 96", CLASS I EACH	WORK ZONE PAVEMENT MARKING, MISC: YIELD LINE FT	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A SY	618 RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE) FT	622 PORTABLE BARRIER, UNANCHORED FT	PORTABLE BARRIER, ANCHORED FT	BARRIER, MISC.: TEMPORARY MEDIAN BARRIER TRANSITION EACH	642 REMOVAL OF PAVEMENT MARKING FT
	WINTER PHASE 2 (CONT.)																																					
197-198	*71+28.87*	*76+28.81*	*RT*																		*499.94*	*499.94*		*499.94*			*499.94*										
198	*76+28.81*	*78+39.60*	*RT*																			*210.79*		*210.79*			*210.79*				*95.30*						
198	*78+39.60*	*81+00.00*	*RT*																		*260.40*	*260.40*					*260.40*										
	RAISED PAVEMENT MARKERS																																					
193-195	*12+34.00*	*42+10.00*	*RT*							*39*																												
195-198	*42+10.00*	*78+39.60*	*RT*							*93*																												
198	*78+39.60*	*81+00.00*	*RT*							*5*																												
	RAMP S-E																																					
	PAVEMENT MARKING																																					
195	*0+00.00*	*1+50.34*	*LT*																		*150.34*																
195	*1+50.34*	*3+59.09*	*LT*																		*208.75*					*208.75*										
195-196	*3+59.09*	*9+91.15*	*LT/RT*																		*632.06*	*632.06*															
196	*9+91.15*	*10+96.94*	*LT/RT*																		*105.79*	*105.79*		*105.79*								*2*	*1*				
196	*10+96.94*	*11+54.63*	*LT/RT*																		*57.69*	*57.69*		*43.01*					*24.40*	*63.30*		*2*					
	RIGHT ONTO WOODLAND AVE																																					
196	*9+91.15*	*11+32.35*	*RT*																		*70.35*	*52.15*								*79.80*				*16.70*				
	RAMP E-14																																					
	PAVEMENT MARKING																																					
198	*1+08.20*	*3+30.14*	*LT/RT*																		*221.94*			*221.94*													
	RAMP E-17																																					
	PAVEMENT MARKING																																					
198	*0+00.00*	*1+39.15*	*LT/RT*																		*139.15*	*139.15*					*139.15*										
198-199	*1+39.15*	*6+21.99*	*LT/RT*																		*482.84*	*482.84*		*482.84*													
	FINAL CONFIGURATION PRIOR TO FINAL MARKING *(PLANED COURSE) FROM PAVEMENT MARKING SUBSUMMARY*															*4291.30*	*13747.03*		*13608.53*	*13633.39*			*4610.36*		*2769.23*		*4291.30*	*960.40*			*434.10*						
	FINAL CONFIGURATION PRIOR TO FINAL MARKING *(SURFACE COURSE) FROM PAVEMENT MARKING SUBSUMMARY*															*4291.30*	*13747.03*		*13608.53*	*13633.39*			*4610.36*		*2769.23*		*4291.30*	*960.40*			*434.10*						
TOTALS THIS SHEET									*137*						*8582.60*	*27494.06*		*27217.06*	*27266.78*	*2829.25*	*2440.81*	*9220.72*	*1773.06*	*5538.46*		*1110.28*	*1920.80*	*24.40*	*143.10*	*963.50*	*4*	*1*	*16.70*					
TOTALS FROM SHEET 31	*516.95*	*46.53*	*21.53*		*1076.00*	*2*	*428*		*51*	*35*	*35*	*51*		*1350.00*		*5187.27*	*5188.18*			*1994.39*		*533.75*				*56.00*							*707.00*	*1032.00*	*697.00*	*3*	*9600.17*
TOTALS FROM SHEET 32	*320.51*	*28.85*	*13.35*	*1*	*1063.18*	*2*	*106*		*49*	*40*	*40*	*49*	*2140*	*2924.23*		*6410.71*	*4763.03*			*1654.07*		*1642.27*						*56.31*	*120.06*	*131.55*	*8*	*1*	*14.24*		*1153.84*	*2033.60*			*14758.59*
TOTALS FROM SHEET 33	*174.45*	*15.70*	*7.27*	*1*	*2149.40*			*50*	*58*		*50*	*58*		*1185.75*		*4183.17*	*3899.40*			*665.17*								*66.53*						*1036.79*	*221.82*	*1964.40*	*600.00*		*4619.24*
TOTALS FROM SHEET 34					*98.18*	*1*	*41*	*6*	*34*		*6*	*34*	*2144.18*	*987.24*	*5022.63*	*2512.42*	*5270.95*	*10242.35*	*9088.28*	*501.35*	*2382.28*	*540.00*	*1796.50*	*4161.29*	*960.40*				*303.05*					*205.00*			*7786.54*
TOTALS FROM SHEET 35	*475.63*	*42.82*	*19.81*		*815.00*	*1*	*74*	*54*	*49*		*54*	*49*	*2140*	*2316.69*	*933.00*	*5401.94*	*3900.00*	*1571.58*	*863.03*	*826.00*	*832.80*	*600.00*					*122.84*	*120.06*	*131.55*	*8*	*1*	*14.24*		*598.25*	*1550.00*	*485.00*		*2485.25*
TOTALS FROM SHEET 36	*263.09*	*23.67*	*10.96*		*356.64*		*288*	*6*		*9*	*15*		*2787.86*	*933.00*		*5425.67*	*5187.58*			*1570.72*							*122.84*	*120.06*	*50.94*	*8*	*1*	*14.24*		*540.95*	*356.64*	*215.00*		*9176.17*
TOTALS FROM SHEET 37	*101.03*	*9.09*	*4.21*		*1208.48*	*2*		*25*	*57*	*34*	*59*	*57*			*5419.01*	*830.38*	*626.94*	*4578.81*	*2918.87*	*203.44*	*458.77*	*152.44*	*2322.39*	*3192.67*				*114.60*					*132.00*	*570.00*		*677.94*
SUBTOTALS	*1851.66*	*166.66*	*77.13*	*2*	*6766.88*	*8*	*1074*	*141*	*298*	*118*	*259*	*298*	*17794.64*	*37190.97*	*11374.64*	*57168.62*	*56102.86*	*19221.99*	*15310.99*	*16635.86*	*5446.91*	*9006.92*	*4118.89*	*8464.24*	*2881.20*	*392.92*	*503.28*	*1751.19*	*28*	*4*	*59.42*	*1036.79*	*3221.86*	*8461.64*	*2567.00*	*3*	*49103.90*
CONVERT FEET TO MILES WHERE APPLICABLE (FT/5280)														*7.04*	*2.15*	*10.83*	*10.63*	*3.64*	*2.90*														*0.61*				
TOTALS CARRIED TO GENERAL SUMMARY	***1852***	***167***	***78***	***2***	***6767***	***8***	***1074***	***141***	***298***	***118***	***259***	***298***	***17795***	***7.04***	***2.15***	***21.46***		***6.54***		***16636***	***5447***	***9007***	***4119***	***8465***	***2882***	***393***	***504***	***1752***	***28***	***4***	***60***	***1037***	***0.61***	***8462***	***2567***	***3***	***49104***

1	10/13/25	ADD 642/MISC. MARKING/RECALCULATE TOTALS

MAINTENANCE OF TRAFFIC SUBSUMMARY

DESIGN AGENCY

DESIGNER TJF

REVIEWER RJM 7-28-25

PROJECT ID 119380

SHEET P.38 TOTAL 365

CUY-77-15.46

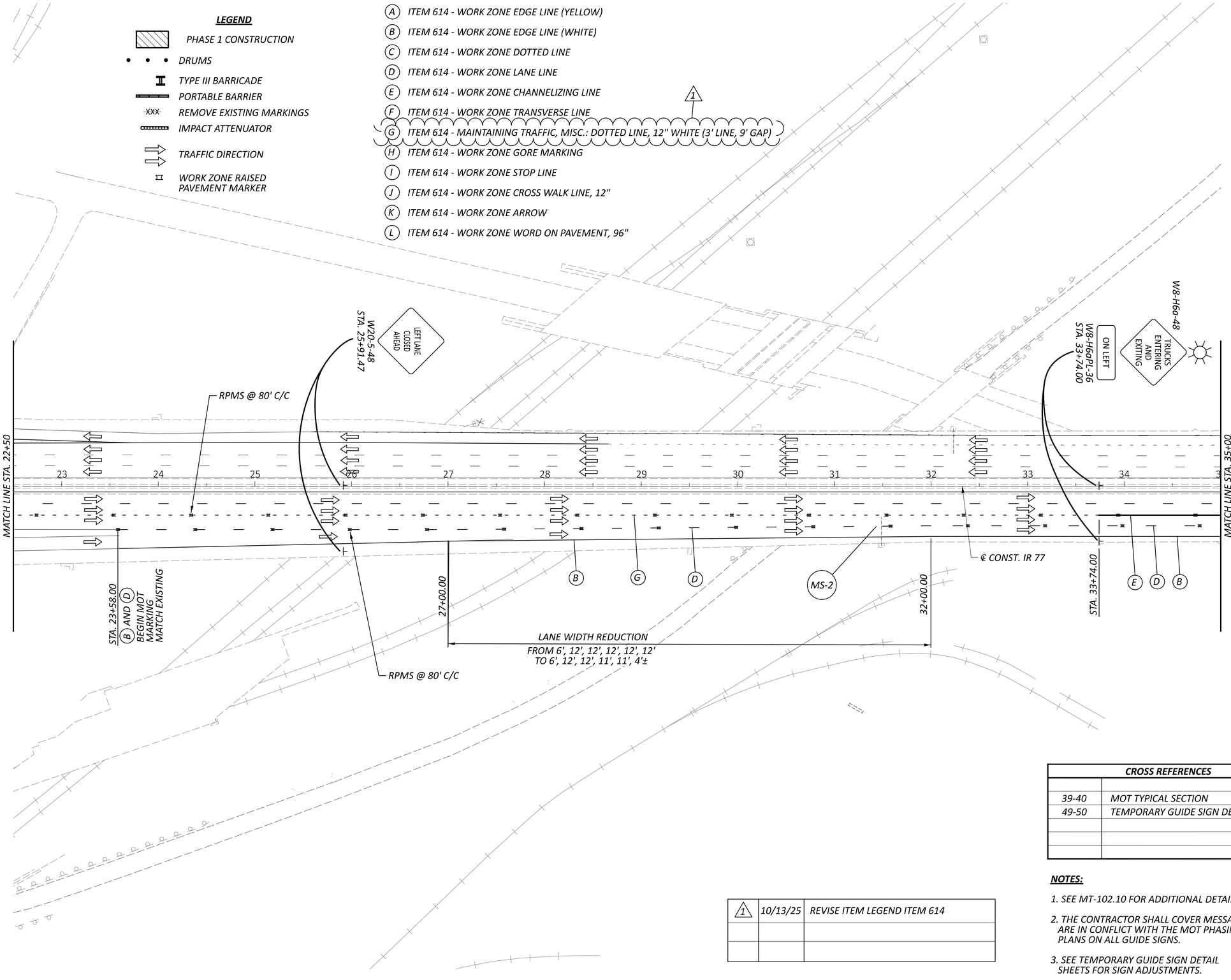
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LEGEND

- PHASE 1 CONSTRUCTION
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- XXX REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP) — 1
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"



1	10/13/25	REVISE ITEM LEGEND ITEM 614

CROSS REFERENCES	
39-40	MOT TYPICAL SECTION
49-50	TEMPORARY GUIDE SIGN DETAILS

NOTES:

1. SEE MT-102.10 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PLAN - SB PHASE 1 (NB MOT 1A) STA. 22+50.00 TO STA. 35+00.00

DESIGN AGENCY

DESIGNER DAW
REVIEWER TJF 7-28-25
PROJECT ID 119380
SHEET P.42 TOTAL 365

CUY-77-15.46

MODEL: MOT Begin-1 - 1 PAPERSIZE: 34x22 (in.) DATE: 10/13/2025 TIME: 10:13:03 AM USER: SMorr
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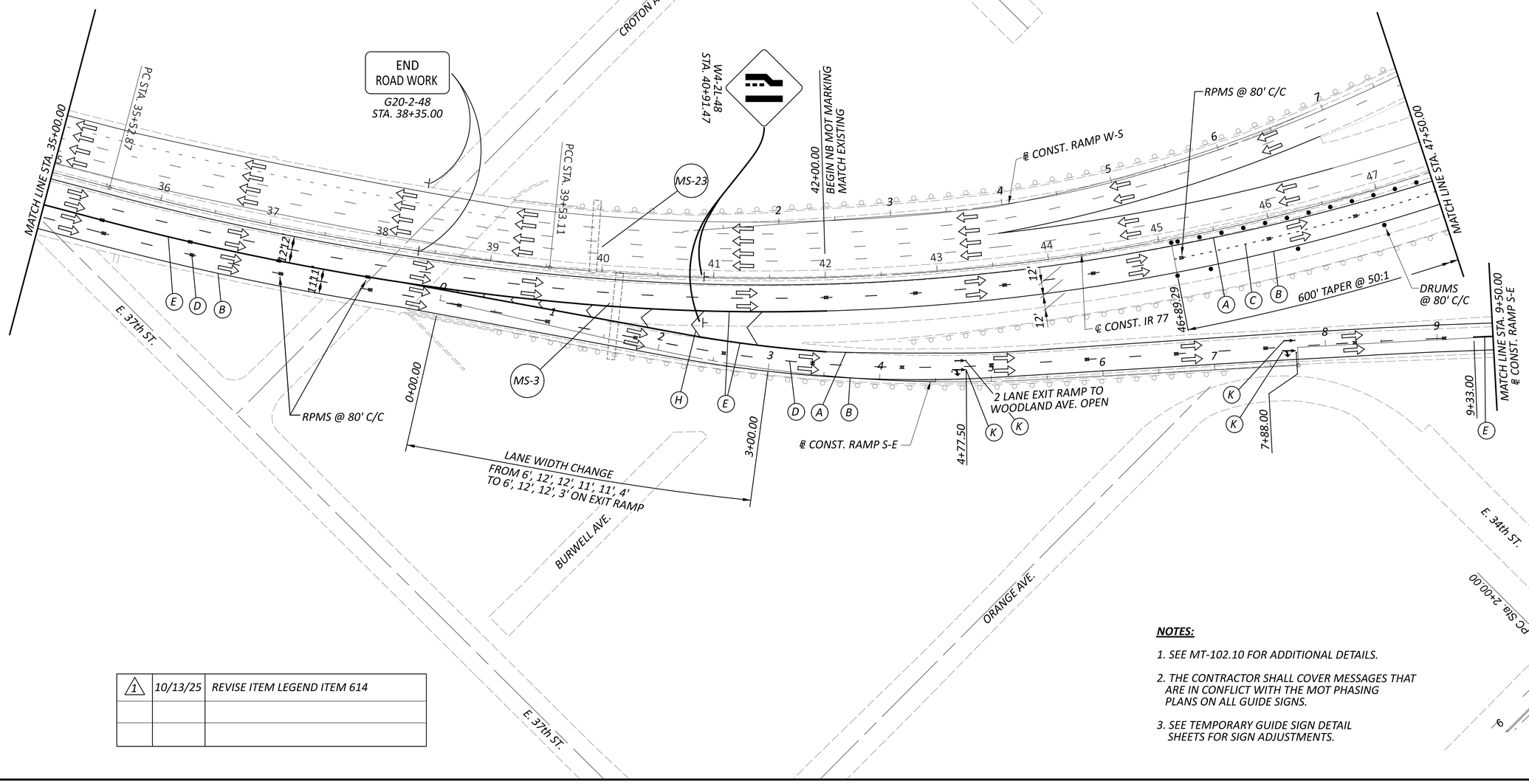
LEGEND

- PHASE 1 CONSTRUCTION
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- XXX REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP) 1
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"
- (M) ITEM 614 - WORK ZONE PAVEMENT MARKING, MISC.: YIELD LINE

CROSS REFERENCES	
39-40	MOT TYPICAL SECTION
49-50	TEMPORARY GUIDE SIGN DETAILS
91-92	WOODLAND AVE. EXIT RAMP



NOTES:

1. SEE MT-102.10 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.

1	10/13/25	REVISE ITEM LEGEND ITEM 614

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PLAN - SB PHASE 1 (NB MOT 1A) STA. 35+00.00 TO STA. 47+50.00

DESIGN AGENCY

DESIGNER DAW
REVIEWER TJF 7-28-25
PROJECT ID 119380
SHEET P.43 TOTAL 365

CUY-77-15.46

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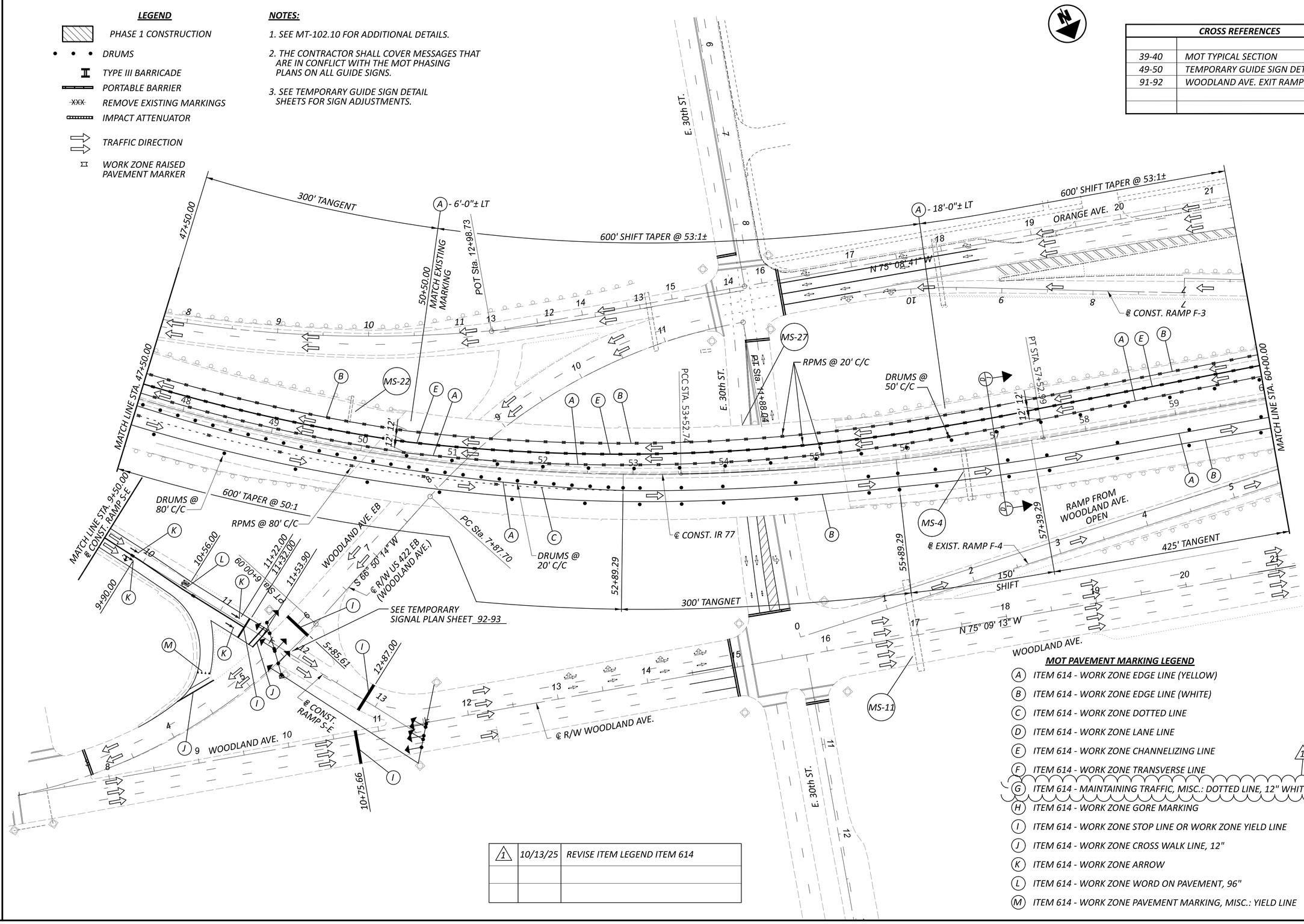
LEGEND

- PHASE 1 CONSTRUCTION
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- XXX REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER

NOTES:

1. SEE MT-102.10 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.

CROSS REFERENCES	
39-40	MOT TYPICAL SECTION
49-50	TEMPORARY GUIDE SIGN DETAILS
91-92	WOODLAND AVE. EXIT RAMP



MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP) — 1
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE OR WORK ZONE YIELD LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"
- (M) ITEM 614 - WORK ZONE PAVEMENT MARKING, MISC.: YIELD LINE

1	10/13/25	REVISE ITEM LEGEND ITEM 614

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PLAN - SB PHASE 1 (NB MOT 1A)
STA. 47+50.00 TO STA. 60+00.00

DESIGN AGENCY

DESIGNER DAW
REVIEWER TJF 7-28-25
PROJECT ID 119380
SHEET P.44 TOTAL 365

CUY-77-15.46

MODEL: CLX_IR-77 - Plan 2 PAPERSIZE: 34x22 (in.) DATE: 10/13/2025 TIME: 10:16:28 AM USER: SMorr
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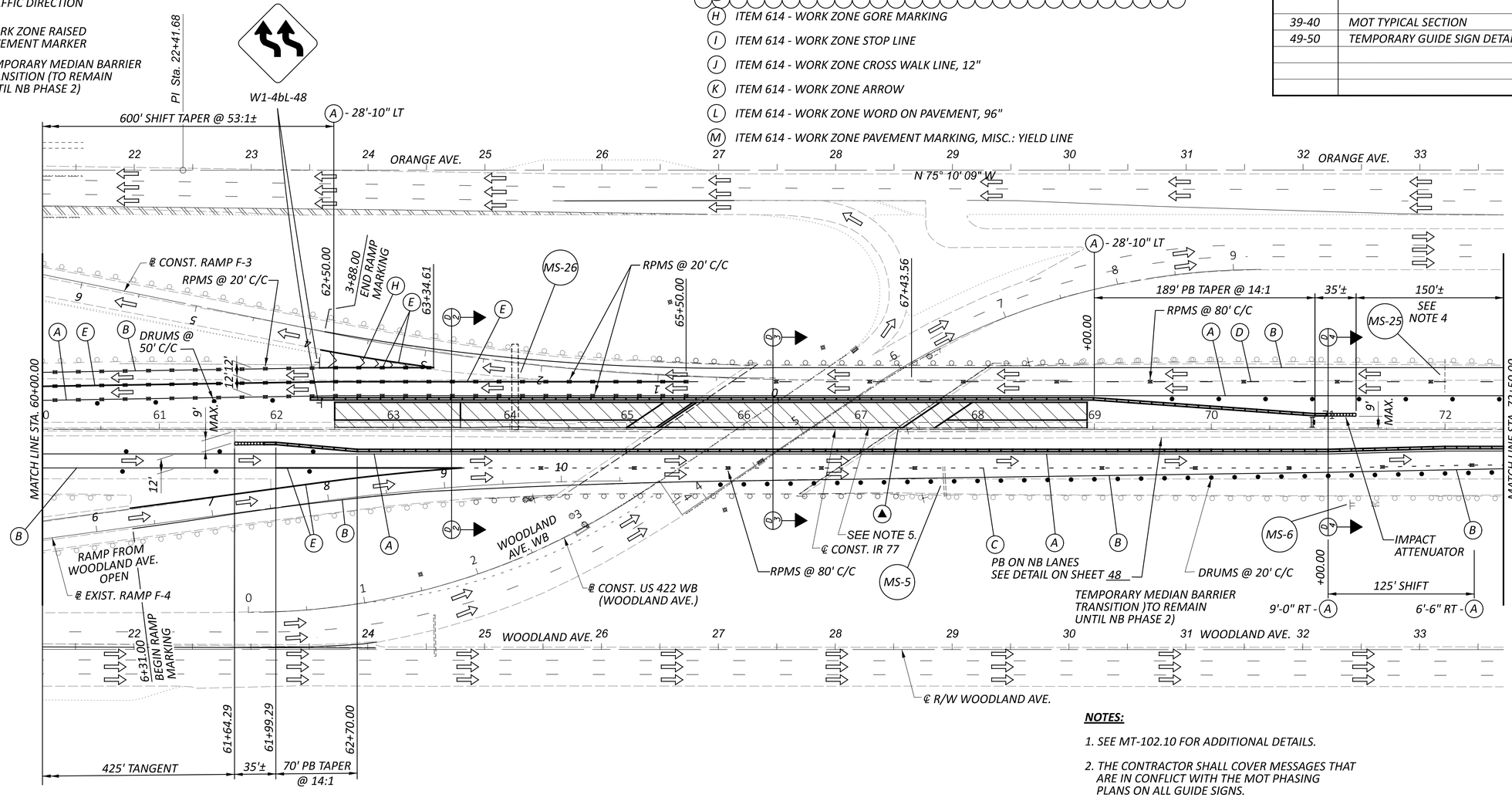
LEGEND

- PHASE 1 CONSTRUCTION
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- XXX REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER
- TEMPORARY MEDIAN BARRIER TRANSITION (TO REMAIN UNTIL NB PHASE 2)

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP) (1)
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"
- (M) ITEM 614 - WORK ZONE PAVEMENT MARKING, MISC.: YIELD LINE

CROSS REFERENCES	
39-40	MOT TYPICAL SECTION
49-50	TEMPORARY GUIDE SIGN DETAILS



NOTES:

1. SEE MT-102.10 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.
4. CONTRACTORS CONSTRUCTION ACCESS BETWEEN BRIDGES (100' OPENING) SHALL BE PROVIDED. CONSTRUCTION ACCESS SHALL ONLY BE USED DURING PERMITTED LANE CLOSURE TIMES ON IR 77 IN CONJUNCTION WITH A LEFT LANE CLOSURE. THE LANE SHIFT WILL BE DELINEATED WITH DRUMS AT 50' CENTER TO CENTER SPACING ALONG THE LEFT AND THE RIGHT, WITH THE DRUMS ALONG THE LEFT EXTENDING SOUTHBOUND TO CLOSE OFF THE LEFT LANE THROUGH THE CONSTRUCTION ACCESS. CONTRACTOR SHALL USE THE CLOSED LEFT LANE TO ACCESS THE WORK ZONE EITHER DIRECTLY OR BY BACKING INTO AS NECESSARY. EXITING THE WORK ZONE USING THE CONSTRUCTION ACCESS SHALL ALSO ONLY BE DURING THE LEFT LANE CLOSURE. THE LENGTH OF THE LEFT LANE CLOSURE BEYOND THE CONSTRUCTION ACCESS SHALL BE OF A LENGTH TO ALLOW FOR CONSTRUCTION EQUIPMENT TO ACHEIVE A THROUGH TRAFFIC SPEED. SEE STANDARD CONSTRUCTION DRAWING MT-103.10 FOR SIGNING REQUIREMENTS.
5. SEE GENERAL NOTES SHEET 30 FOR TEMPORARY MEDIAN BARRIER TRANSITION DETAIL TO BE CONSTRUCTED IN SB PHASE 1 PRIOR TO THE REMOVAL OF THE NB PORTABLE BARRIER.
6. SEE MT-99.60 FOR OVERHEAD TRUSS INSTALLATION.

1	10/13/25	REVISE ITEM LEGEND ITEM 614

HORIZONTAL SCALE IN FEET
0 25 50 100

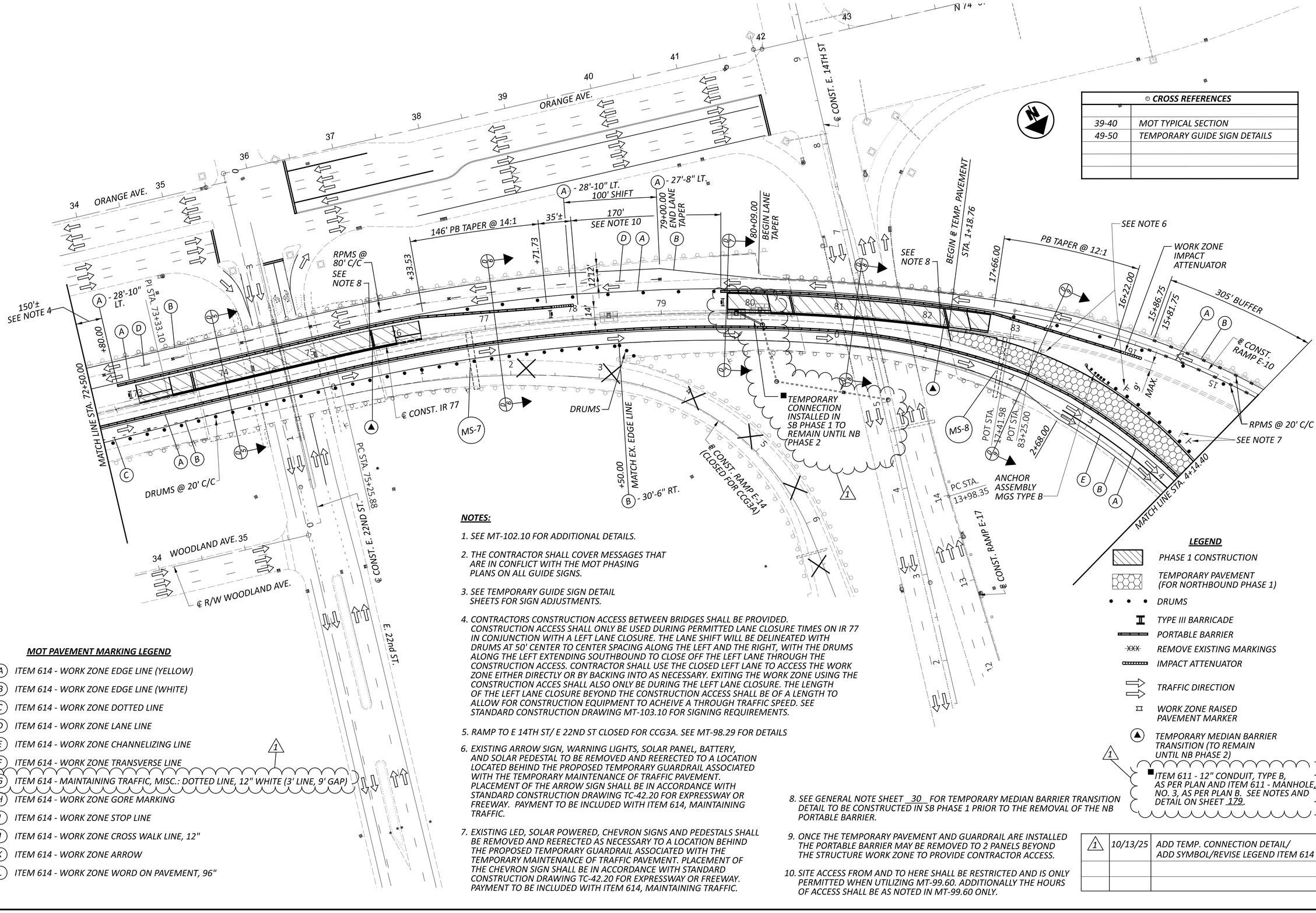
MAINTENANCE OF TRAFFIC PLAN - SB PHASE 1 (NB MOT 1A)
STA. 60+00.00 TO STA. 72+50.00

DESIGN AGENCY

DESIGNER DAW
REVIEWER TJF 7-28-25
PROJECT ID 119380
SHEET P.45 TOTAL 365

CUY-77-15.46

MODEL: CLX_IR-77 - Plan 3 PAPERSIZE: 34x22 (in.) DATE: 10/13/2025 TIME: 10:17:58 AM USER: SMorr
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CROSS REFERENCES	
39-40	MOT TYPICAL SECTION
49-50	TEMPORARY GUIDE SIGN DETAILS

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP)
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"

NOTES:

1. SEE MT-102.10 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.
4. CONTRACTORS CONSTRUCTION ACCESS BETWEEN BRIDGES SHALL BE PROVIDED. CONSTRUCTION ACCESS SHALL ONLY BE USED DURING PERMITTED LANE CLOSURE TIMES ON IR 77 IN CONJUNCTION WITH A LEFT LANE CLOSURE. THE LANE SHIFT WILL BE DELINEATED WITH DRUMS AT 50' CENTER TO CENTER SPACING ALONG THE LEFT AND THE RIGHT, WITH THE DRUMS ALONG THE LEFT EXTENDING SOUTHBOUND TO CLOSE OFF THE LEFT LANE THROUGH THE CONSTRUCTION ACCESS. CONTRACTOR SHALL USE THE CLOSED LEFT LANE TO ACCESS THE WORK ZONE EITHER DIRECTLY OR BY BACKING INTO AS NECESSARY. EXITING THE WORK ZONE USING THE CONSTRUCTION ACCES SHALL ALSO ONLY BE DURING THE LEFT LANE CLOSURE. THE LENGTH OF THE LEFT LANE CLOSURE BEYOND THE CONSTRUCTION ACCESS SHALL BE OF A LENGTH TO ALLOW FOR CONSTRUCTION EQUIPMENT TO ACHEIVE A THROUGH TRAFFIC SPEED. SEE STANDARD CONSTRUCTION DRAWING MT-103.10 FOR SIGNING REQUIREMENTS.
5. RAMP TO E 14TH ST/ E 22ND ST CLOSED FOR CCG3A. SEE MT-98.29 FOR DETAILS
6. EXISTING ARROW SIGN, WARNING LIGHTS, SOLAR PANEL, BATTERY, AND SOLAR PEDESTAL TO BE REMOVED AND REERECTED TO A LOCATION LOCATED BEHIND THE PROPOSED TEMPORARY GUARDRAIL ASSOCIATED WITH THE TEMPORARY MAINTENANCE OF TRAFFIC PAVEMENT. PLACEMENT OF THE ARROW SIGN SHALL BE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING TC-42.20 FOR EXPRESSWAY OR FREEWAY. PAYMENT TO BE INCLUDED WITH ITEM 614, MAINTAINING TRAFFIC.
7. EXISTING LED, SOLAR POWERED, CHEVRON SIGNS AND PEDESTALS SHALL BE REMOVED AND REERECTED AS NECESSARY TO A LOCATION BEHIND THE PROPOSED TEMPORARY GUARDRAIL ASSOCIATED WITH THE TEMPORARY MAINTENANCE OF TRAFFIC PAVEMENT. PLACEMENT OF THE CHEVRON SIGN SHALL BE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING TC-42.20 FOR EXPRESSWAY OR FREEWAY. PAYMENT TO BE INCLUDED WITH ITEM 614, MAINTAINING TRAFFIC.
8. SEE GENERAL NOTE SHEET 30 FOR TEMPORARY MEDIAN BARRIER TRANSITION DETAIL TO BE CONSTRUCTED IN SB PHASE 1 PRIOR TO THE REMOVAL OF THE NB PORTABLE BARRIER.
9. ONCE THE TEMPORARY PAVEMENT AND GUARDRAIL ARE INSTALLED THE PORTABLE BARRIER MAY BE REMOVED TO 2 PANELS BEYOND THE STRUCTURE WORK ZONE TO PROVIDE CONTRACTOR ACCESS.
10. SITE ACCESS FROM AND TO HERE SHALL BE RESTRICTED AND IS ONLY PERMITTED WHEN UTILIZING MT-99.60. ADDITIONALLY THE HOURS OF ACCESS SHALL BE AS NOTED IN MT-99.60 ONLY.

LEGEND

- PHASE 1 CONSTRUCTION
- TEMPORARY PAVEMENT (FOR NORTHBOUND PHASE 1)
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- ~~XXX~~ REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER
- TEMPORARY MEDIAN BARRIER TRANSITION (TO REMAIN UNTIL NB PHASE 2)
- (1) ITEM 611 - 12" CONDUIT, TYPE B, AS PER PLAN AND ITEM 611 - MANHOLE, NO. 3, AS PER PLAN B. SEE NOTES AND DETAIL ON SHEET 179

1	10/13/25	ADD TEMP. CONNECTION DETAIL/ ADD SYMBOL/REVISE LEGEND ITEM 614

MAINTENANCE OF TRAFFIC PLAN - SB PHASE 1 (NB MOT 1A)
STA. 72+50.00 TO STA. 4+00.00

DESIGN AGENCY

DESIGNER DAW

REVIEWER TJF 7-28-25

PROJECT ID 119380

SHEET P.46 TOTAL 365

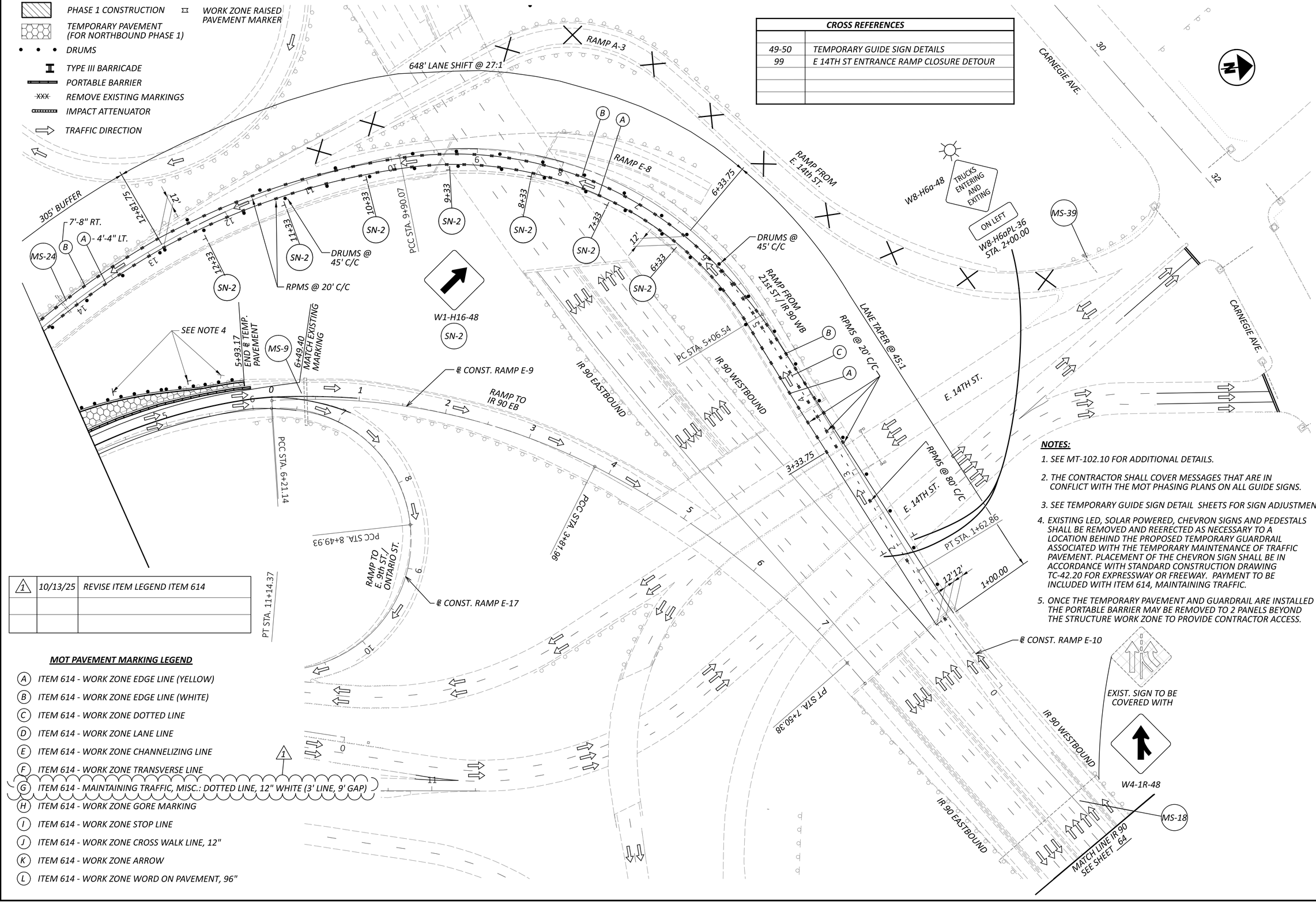
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LEGEND

- PHASE 1 CONSTRUCTION
- TEMPORARY PAVEMENT (FOR NORTHBOUND PHASE 1)
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER

CROSS REFERENCES	
49-50	TEMPORARY GUIDE SIGN DETAILS
99	E 14TH ST ENTRANCE RAMP CLOSURE DETOUR



1	10/13/25	REVISE ITEM LEGEND ITEM 614

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP)
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"

NOTES:

1. SEE MT-102.10 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.
4. EXISTING LED, SOLAR POWERED, CHEVRON SIGNS AND PEDESTALS SHALL BE REMOVED AND REERECTED AS NECESSARY TO A LOCATION BEHIND THE PROPOSED TEMPORARY GUARDRAIL ASSOCIATED WITH THE TEMPORARY MAINTENANCE OF TRAFFIC PAVEMENT. PLACEMENT OF THE CHEVRON SIGN SHALL BE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING TC-42.20 FOR EXPRESSWAY OR FREEWAY. PAYMENT TO BE INCLUDED WITH ITEM 614, MAINTAINING TRAFFIC.
5. ONCE THE TEMPORARY PAVEMENT AND GUARDRAIL ARE INSTALLED THE PORTABLE BARRIER MAY BE REMOVED TO 2 PANELS BEYOND THE STRUCTURE WORK ZONE TO PROVIDE CONTRACTOR ACCESS.

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PLAN - SB PHASE 1 (NB MOT 1A)
STA. 4+00.00 TO STA. 7+00.00

DESIGN AGENCY

DESIGNER DAW
REVIEWER TJF 7-28-25
PROJECT ID 119380
SHEET P.47 TOTAL 365

CUY-77-15.46

MODEL: CLX_IR-77 - Plan 5 PAPERSIZE: 34x22 (in.) DATE: 10/13/2025 TIME: 10:23:24 AM USER: SMorr
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NOTES:

1. SEE SHEET 45 FOR MORE DETAIL.

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP) (1)
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"

HORIZONTAL SCALE IN FEET
0 10 20 40

℄ CONST. RAMP F-3
62+30.00
℄ SB PB
12'
12'
2'
26'-2"
21'-0"±
IMPACT ATTENUATOR
℄ CONST. IR 77
9' MAX.
℄ CONST. RAMP F-4
℄ EXIST. RAMP F-4
61+64.29
62+70.0
425' TANGENT
35'±
70' PB TAPER @ 14:1
℄ CONST. US 422 WB (WOODLAND AVE.)
℄ R/W WOODLAND AVE.
WOODLAND AVE.

1	10/13/25	REVISE ITEM LEGEND ITEM 614

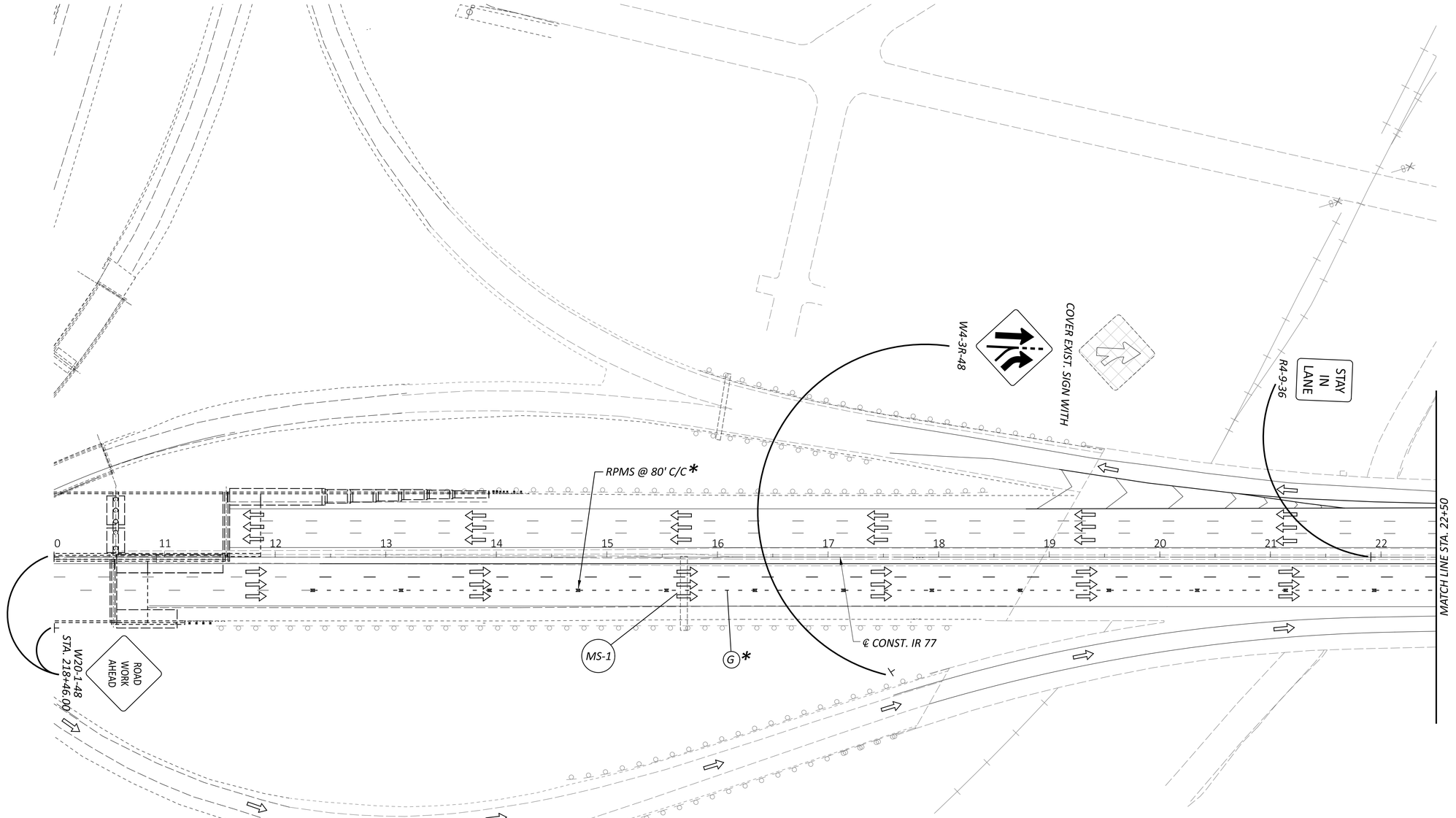
MAINTENANCE OF TRAFFIC DETAIL - SB PHASE 1 (NB MOT 1A)

DESIGN AGENCY

DESIGNER DAW
REVIEWER TJF 7-28-25
PROJECT ID 119380
SHEET P.48 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/13/2025 TIME: 10:24:46 AM USER: SMorr
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LEGEND

- PHASE 2 CONSTRUCTION
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- ~~XXX~~ REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP) 1
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"
- * MARKING IN PLACE FROM NB PHASE 1A

CROSS REFERENCES	
51-52	MOT TYPICAL SECTION
65-67	TEMPORARY GUIDE SIGN DETAILS

NOTES:

1. SEE MT-95.40 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.
4. SB EXISTING MARKING TO REMAIN.
5. NB MARKING TO REMAIN FROM PREVIOUS PHASE.

1	10/13/25	REVISE ITEM LEGEND ITEM 614

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PLAN - SB PHASE 2 (NB MOT 1B)
STA. 10+00.00 TO STA. 22+50.00

DESIGN AGENCY

DESIGNER DAW
REVIEWER TJF 7-28-25
PROJECT ID 119380
SHEET P.53 TOTAL 365

CUY-77-15.46

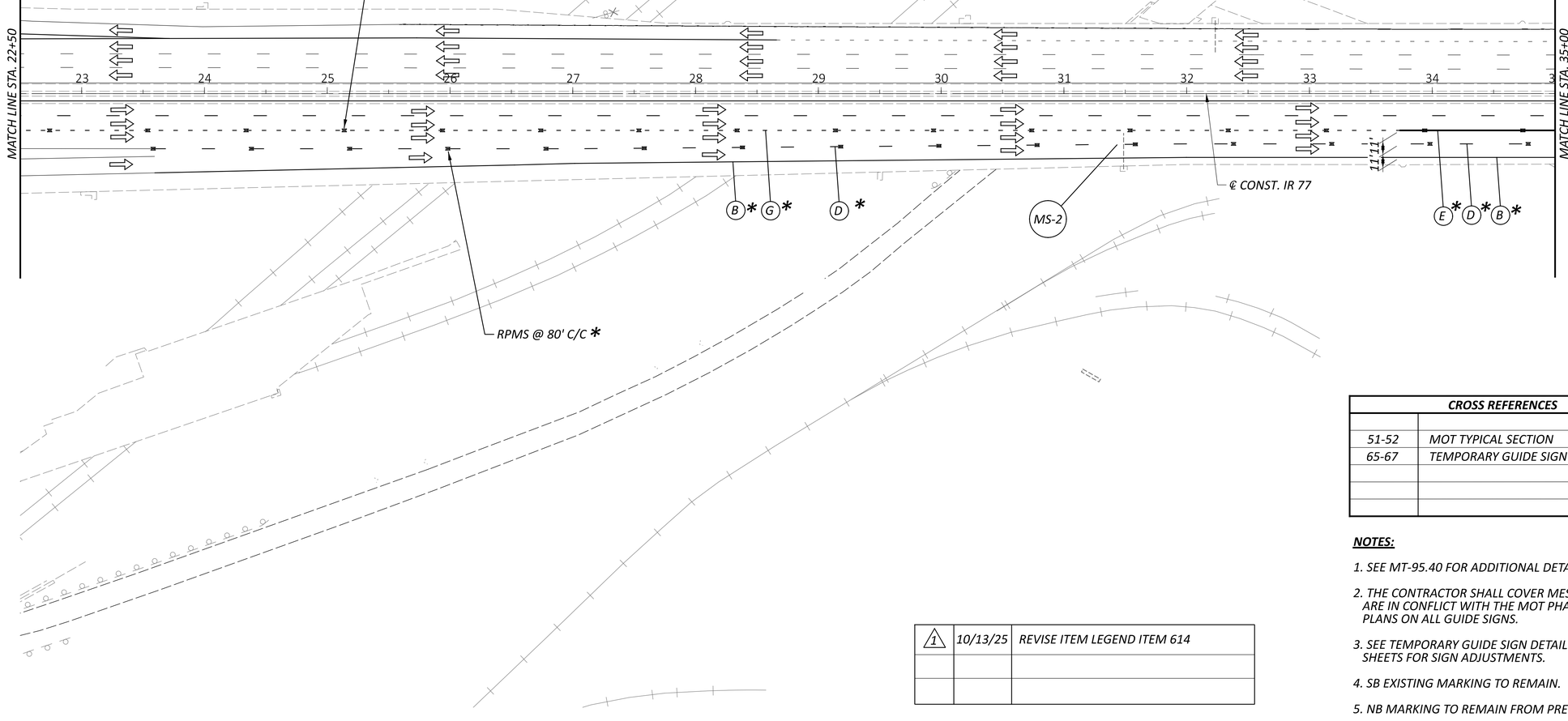
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LEGEND

- PHASE 2 CONSTRUCTION
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- XXX REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP) 1
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"
- * MARKING IN PLACE FROM NB PHASE 1A



CROSS REFERENCES	
51-52	MOT TYPICAL SECTION
65-67	TEMPORARY GUIDE SIGN DETAILS

NOTES:

1. SEE MT-95.40 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.
4. SB EXISTING MARKING TO REMAIN.
5. NB MARKING TO REMAIN FROM PREVIOUS PHASE.

1	10/13/25	REVISE ITEM LEGEND ITEM 614

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PLAN - SB PHASE 2 (NB MOT 1B) STA. 22+50.00 TO STA. 35+00.00

DESIGN AGENCY

DESIGNER DAW
REVIEWER TJF 7-28-25
PROJECT ID 119380
SHEET P.54 TOTAL 365

CUY-77-15.46

MODEL: MOT Begin-1 -1 PAPERSIZE: 34x22 (in.) DATE: 10/13/2025 TIME: 10:27:21 AM USER: SMorr
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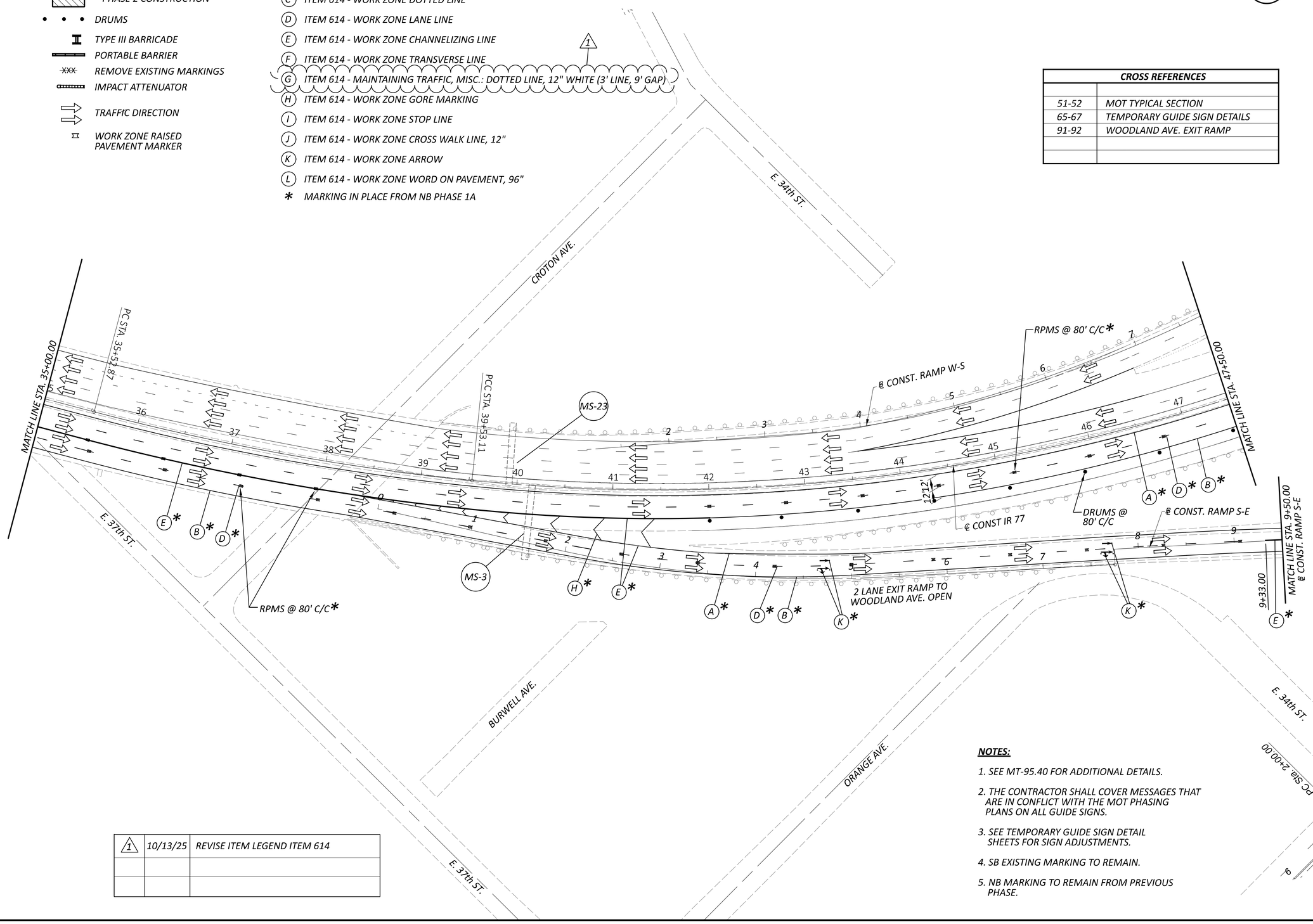
LEGEND

- PHASE 2 CONSTRUCTION
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- XXX REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP)
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"
- * MARKING IN PLACE FROM NB PHASE 1A

CROSS REFERENCES	
51-52	MOT TYPICAL SECTION
65-67	TEMPORARY GUIDE SIGN DETAILS
91-92	WOODLAND AVE. EXIT RAMP



NOTES:

1. SEE MT-95.40 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.
4. SB EXISTING MARKING TO REMAIN.
5. NB MARKING TO REMAIN FROM PREVIOUS PHASE.

1	10/13/25	REVISE ITEM LEGEND ITEM 614

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PLAN - SB PHASE 2
(NB MOT 1B)
STA. 35+00.00 TO STA. 47+50.00

DESIGN AGENCY

DESIGNER DAW
REVIEWER TJF 7-28-25
PROJECT ID 119380
SHEET P.55 TOTAL 365

CUY-77-15.46

MODEL: CLK_IR-77 - Plan 1 PAPERSIZE: 34x22 (in.) DATE: 10/13/2025 TIME: 10:28:41 AM USER: SMorr
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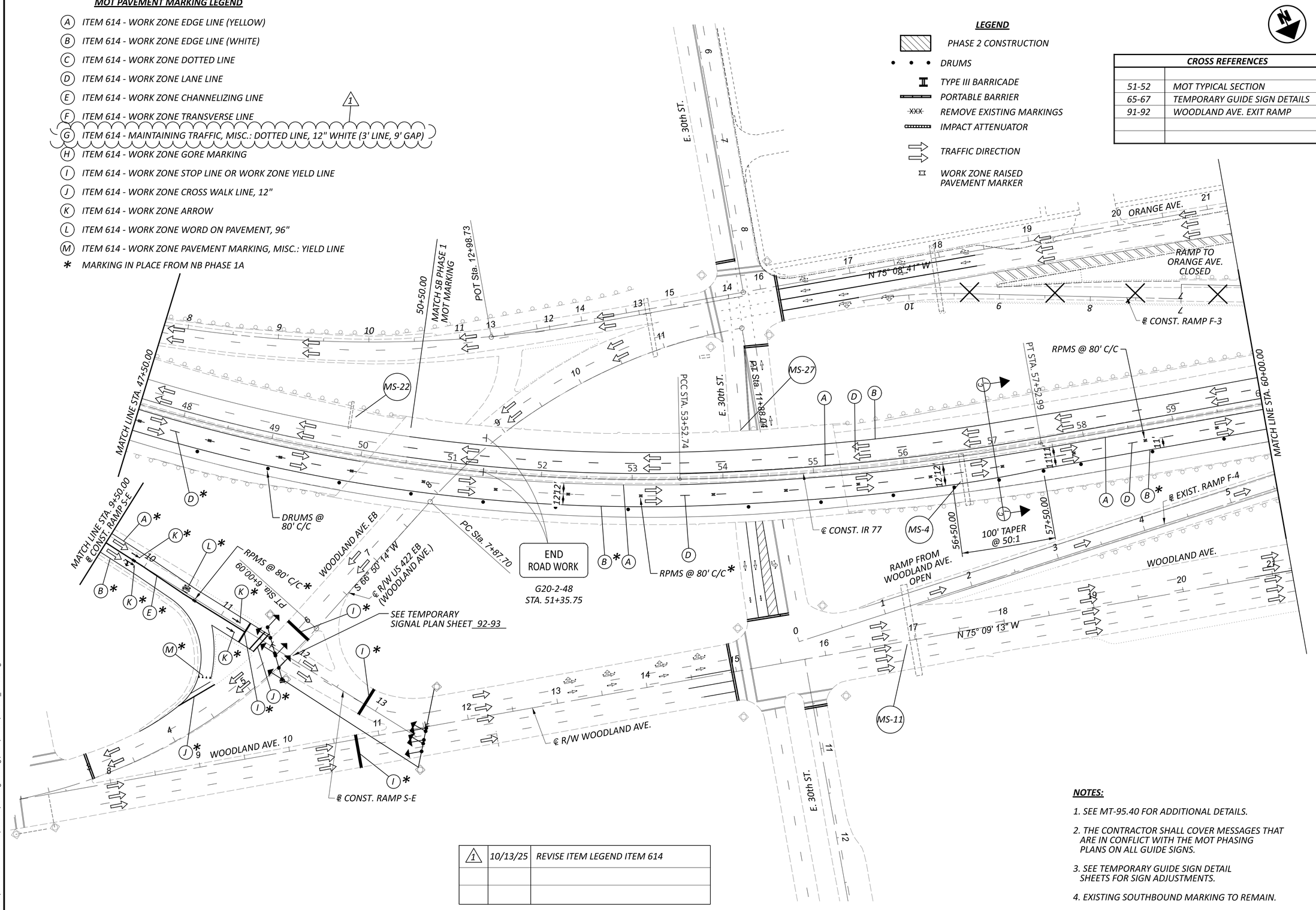
MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP) — 1
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE OR WORK ZONE YIELD LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"
- (M) ITEM 614 - WORK ZONE PAVEMENT MARKING, MISC.: YIELD LINE
- * MARKING IN PLACE FROM NB PHASE 1A

LEGEND

- PHASE 2 CONSTRUCTION
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- XXX REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER

CROSS REFERENCES	
51-52	MOT TYPICAL SECTION
65-67	TEMPORARY GUIDE SIGN DETAILS
91-92	WOODLAND AVE. EXIT RAMP



1	10/13/25	REVISE ITEM LEGEND ITEM 614

NOTES:

1. SEE MT-95.40 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.
4. EXISTING SOUTHBOUND MARKING TO REMAIN.

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PLAN - SB PHASE 2 (NB MOT 1B) STA. 47+50.00 TO STA. 60+00.00

DESIGN AGENCY

DESIGNER	DAW
REVIEWER	TJF 7-28-25
PROJECT ID	119380
SHEET	P.56
TOTAL	365

CUY-77-15.46

MODEL: CLX_IR-77 - Plan 2 PAPERSIZE: 34x22 (in.) DATE: 10/13/2025 TIME: 10:29:50 AM USER: SMorr
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LEGEND

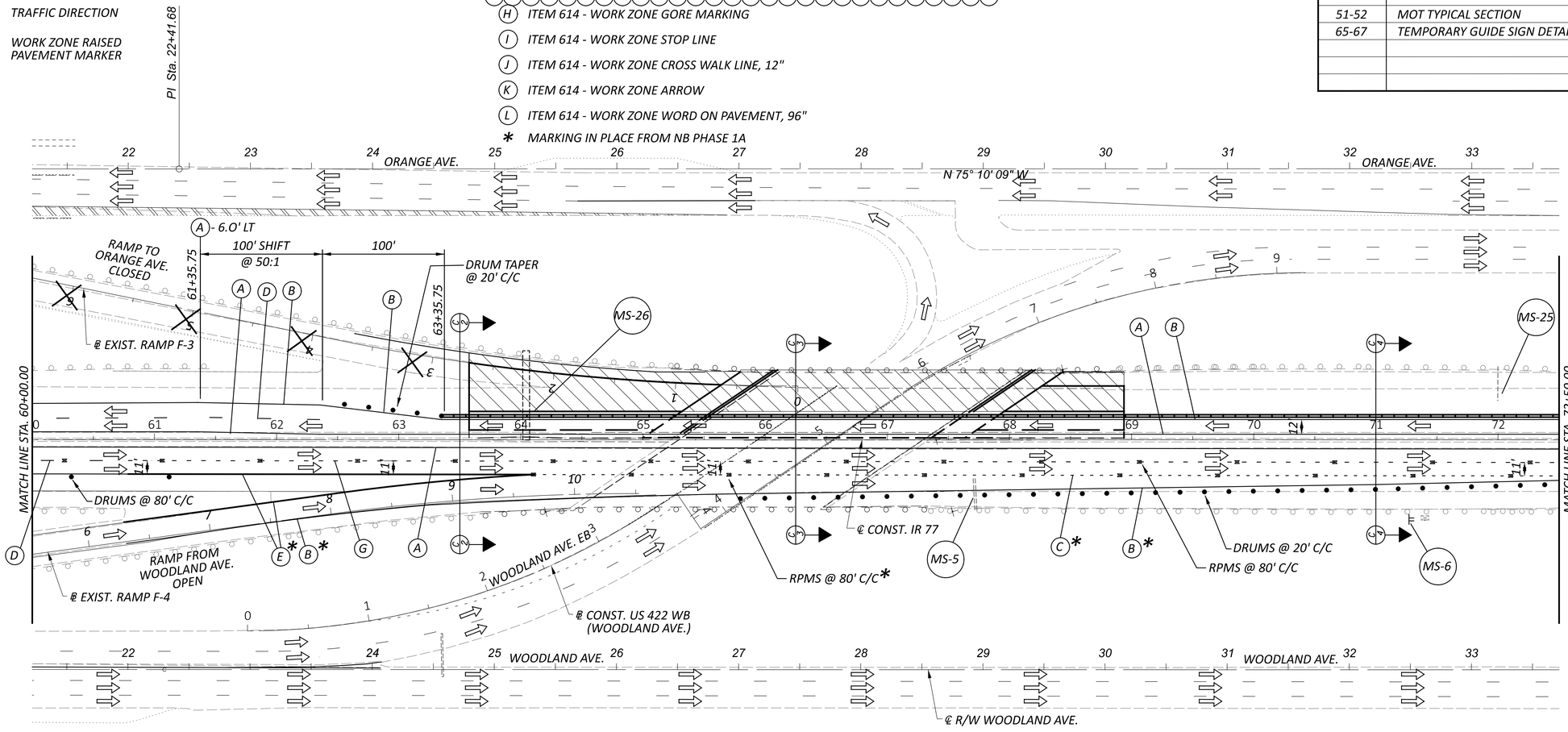
- PHASE 2 CONSTRUCTION
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP)
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"
- * MARKING IN PLACE FROM NB PHASE 1A

1

CROSS REFERENCES	
51-52	MOT TYPICAL SECTION
65-67	TEMPORARY GUIDE SIGN DETAILS



1	10/13/25	REVISE ITEM LEGEND ITEM 614

NOTES:

1. SEE MT-95.40 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.
4. THE CONTRACTOR MAY USE THE CLOSED RAMPS AND SIDE SLOPES TO ACCESS THE WORK AREA ALONG THE OUTSIDE. ANY GUARDRAIL THAT IS REMOVED FOR CONTRACTOR ACCESS SHALL BE REPLACED PRIOR TO THE REMOVAL OF THE WORK ZONE.

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PLAN - SB PHASE 2 (NB MOT 1B)
STA. 60+00.00 TO STA. 72+50.00

DESIGN AGENCY

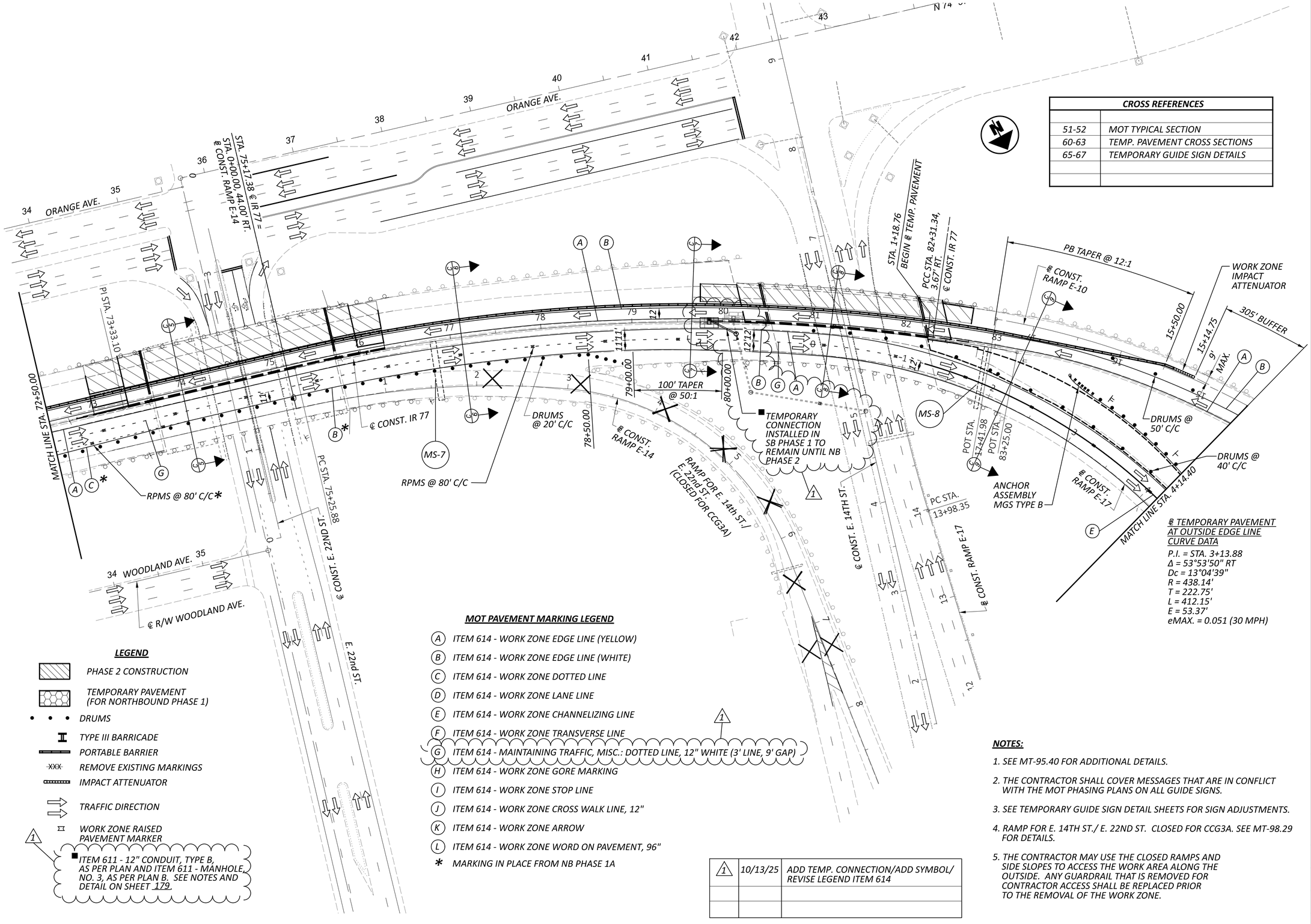
DESIGNER DAW
REVIEWER TJF 7-28-25
PROJECT ID 119380
SHEET P.57 TOTAL 365

CUY-77-15.46

MODEL: CLX_IR-77 - Plan 3 PAPERSIZE: 34x22 (in.) DATE: 10/13/2025 TIME: 10:31:26 AM USER: SMorr
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MODEL: CLX_IR-77 - Plan 4 PAPERSIZE: 34x22 (in.) DATE: 10/16/2025 TIME: 8:45:05 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@mannikSmithgroup.com WORKSPACE: OHDOTCEv02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
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CUY-77-15.46



CROSS REFERENCES	
51-52	MOT TYPICAL SECTION
60-63	TEMP. PAVEMENT CROSS SECTIONS
65-67	TEMPORARY GUIDE SIGN DETAILS

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PLAN - SB PHASE 2 (NB MOT 1B)
STA. 72+50.00 TO STA. 4+00.00

LEGEND

- PHASE 2 CONSTRUCTION
- TEMPORARY PAVEMENT (FOR NORTHBOUND PHASE 1)
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- XXX REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER
- (1) ■ ITEM 611 - 12" CONDUIT, TYPE B, AS PER PLAN AND ITEM 611 - MANHOLE, NO. 3, AS PER PLAN B. SEE NOTES AND DETAIL ON SHEET 179

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP) — (1)
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"
- * MARKING IN PLACE FROM NB PHASE 1A

1	10/13/25	ADD TEMP. CONNECTION/ADD SYMBOL/ REVISE LEGEND ITEM 614

@ TEMPORARY PAVEMENT AT OUTSIDE EDGE LINE CURVE DATA

P.I. = STA. 3+13.88
Δ = 53°53'50" RT
Dc = 13°04'39"
R = 438.14'
T = 222.75'
L = 412.15'
E = 53.37'
eMAX. = 0.051 (30 MPH)

NOTES:

1. *SEE MT-95.40 FOR ADDITIONAL DETAILS.*
2. *THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.*
3. *SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.*
4. *RAMP FOR E. 14TH ST./ E. 22ND ST. CLOSED FOR CCG3A. SEE MT-98.29 FOR DETAILS.*
5. *THE CONTRACTOR MAY USE THE CLOSED RAMPS AND SIDE SLOPES TO ACCESS THE WORK AREA ALONG THE OUTSIDE. ANY GUARDRAIL THAT IS REMOVED FOR CONTRACTOR ACCESS SHALL BE REPLACED PRIOR TO THE REMOVAL OF THE WORK ZONE.*

DESIGN AGENCY

DESIGNER DAW
REVIEWER TJF 7-28-25
PROJECT ID 119380
SHEET P.58 TOTAL 365

LEGEND

- PHASE 2 CONSTRUCTION
- TEMPORARY PAVEMENT (FOR NORTHBOUND PHASE 1)
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER

CROSS REFERENCES	
51-52	MOT TYPICAL SECTION
65-67	TEMPORARY GUIDE SIGN DETAILS

RAMP A-3 · 605' · 305' BUFFER · 572.72' · MS-24 · DRUMS @ 80' C/C · DRUMS @ 50' C/C · RAMP E-8 · PCC STA. 9+90.07 · 6+40.00 · ℄ CONST. RAMP E-10 · RAMP FROM E. 14th ST. (CLOSED) · RAMP FROM 21st ST. · 540' LANE TAPER @ 45:1 · RPMS @ 80' C/C · 4+00.00 · PC STA. 5+06.54 · IR 90 WESTBOUND · IR 90 EASTBOUND · PT STA. 5+04.35, 35.86' LT. ℄ CONST. RAMP E-17 · STA. 6+24.24 END MARKING MATCH EXISTING · DRUMS @ 40' C/C · MS-9 · RAMP TO IR 90 EB · ℄ CONST. RAMP E-9 · MATCH LINE STA. 4+14.40 · PCC STA. 6+21.14 · ℄ CONST. RAMP E-17 · PCC STA. 8+49.93 · RAMP TO E. 9th ST. / ONTARIO ST. · PCC STA. 3+81.96 · PT STA. 11+14.37 · PT STA. 7+50.38 · E. 14TH ST. · PT STA. 1+62.86 · 1+00.00 · DRUMS ACROSS SHOULDER · 0+32.00 · W8-H6a-48 · TRUCKS ENTERING AND EXITING · ON RIGHT · W8-H6aPR-36 STA. 2+00.00 · MS-39 · CARNEGIE AVE. · 30 · 32 · COVER EXISTING SIGN WITH · W4-1R-48 · MS-18 · MATCH LINE IR 90 SEE SHEET 64

NOTES:

1. SEE MT-95.40 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.
4. EXISTING LED, SOLAR POWERED, CHEVRON SIGNS AND PEDESTALS SHALL BE REMOVED AND REERECTED AS NECESSARY TO A LOCATION BEHIND THE PROPOSED TEMPORARY GUARDRAIL ASSOCIATED WITH THE TEMPORARY MAINTENANCE OF TRAFFIC PAVEMENT. PLACEMENT OF THE CHEVRON SIGN SHALL BE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING TC-42.20 FOR EXPRESSWAY OR FREEWAY. PAYMENT TO BE INCLUDED WITH ITEM 614, MAINTAINING TRAFFIC.

℄ TEMPORARY PAVEMENT AT OUTSIDE EDGE LINE CURVE DATA

P.I. = STA. 3+13.88
Δ = 53°53'50" RT
Dc = 13°04'39"
R = 438.14'
T = 222.75'
L = 412.15'
E = 53.37'
eMAX. = 0.051 (30 MPH)

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP)
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"

1	10/13/25	REVISE ITEM LEGEND ITEM 614

HORIZONTAL SCALE IN FEET: 0 25 50 100

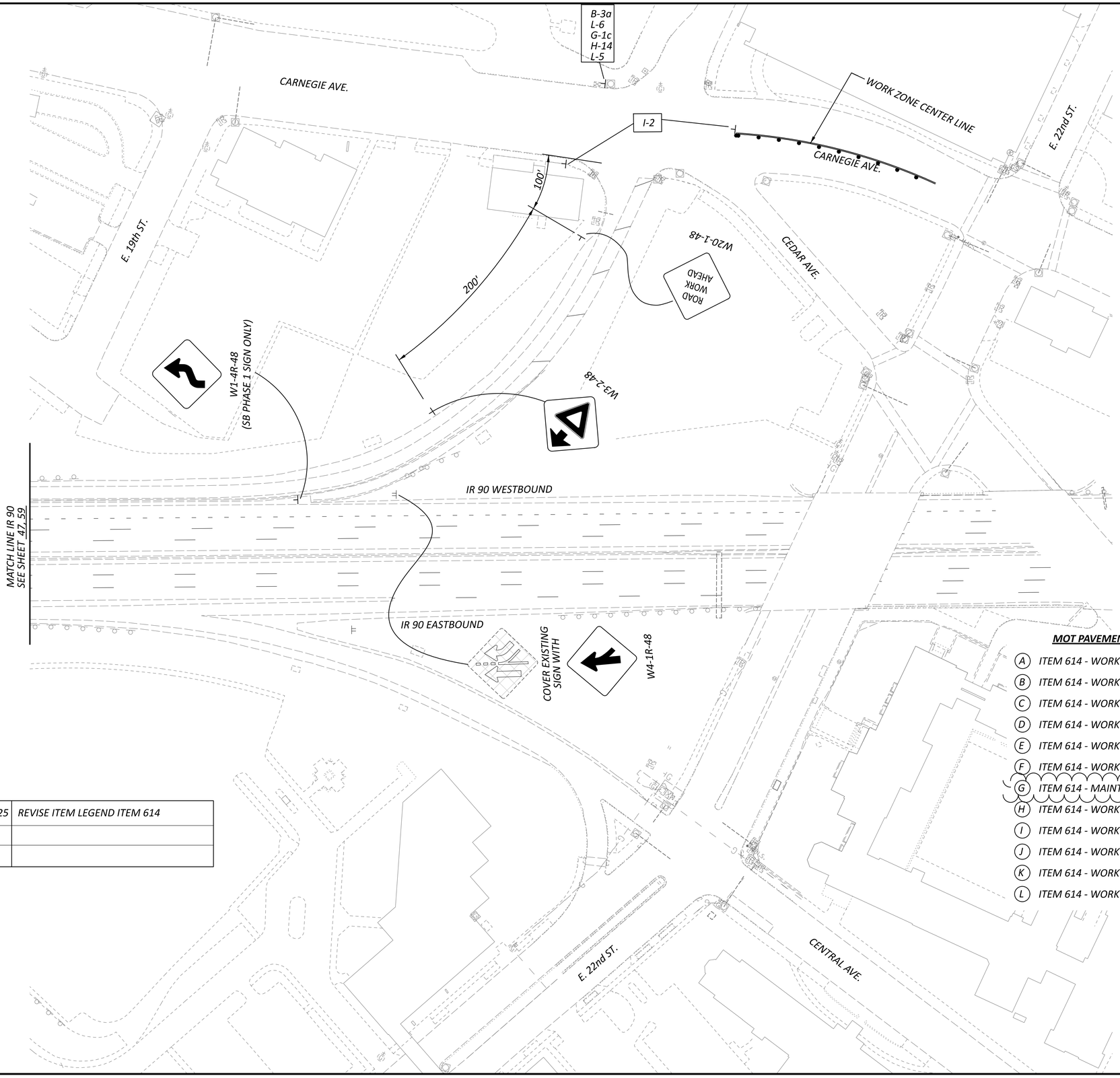
MAINTENANCE OF TRAFFIC PLAN - SB PHASE 2 (NB MOT 1B) STA. 4+00.00 TO STA. 7+00.00

DESIGN AGENCY

DESIGNER: DAW
REVIEWER: TJF 7-28-25
PROJECT ID: 119380
SHEET: P.59 TOTAL: 365

CUY-77-15.46

MODEL: CLX_IR-77 - Plan 5 PAPERSIZE: 34x22 (in.) DATE: 10/13/2025 TIME: 10:35:14 AM USER: SMorr
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HORIZONTAL SCALE IN FEET
0 25 50 100

LEGEND

- PHASE 2 CONSTRUCTION
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- XXX REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION

W20-1-48 ROAD WORK AHEAD — 1 MILE W16-3aP-30 → AT SUPERIOR AVE. ENTRANCE RAMP GORE

CROSS REFERENCES	
65-67	TEMPORARY GUIDE SIGN DETAILS
113	CARNEGIE AVE. WB LEFT TURN LANE CLOSURE AT E. 21ST ST. DETOUR

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP) (1)
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"

NOTES:

1. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
2. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.

1	10/13/25	REVISE ITEM LEGEND ITEM 614

MAINTENANCE OF TRAFFIC PLAN - SB PHASE 1 AND 2 IR 90

DESIGN AGENCY

DESIGNER DAW

REVIEWER TJF 7-28-25

PROJECT ID 119380

SHEET P.64 TOTAL 365

CUY-77-15.46

MODEL: CLX_IR-77 - Plan 5 PAPERSIZE: 34x22 (in.) DATE: 10/13/2025 TIME: 10:37:02 AM USER: SMorr
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LEGEND

- PHASE 1 CONSTRUCTION
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- ~~XXX~~ REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP) 1
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"
- * REMARK AT SAME LOCATION AS NB MOT PHASE 1A

1	10/13/25	REVISE ITEM LEGEND ITEM 614

CROSS REFERENCES	
68-69	MOT TYPICAL SECTION
78	TEMPORARY GUIDE SIGN DETAILS

NOTES:

1. SEE MT-95.40 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.
4. EXISTING SOUTHBOUND MARKING TO REMAIN.

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PLAN - NB PHASE 1
STA. 10+00.00 TO STA. 22+50.00

DESIGN AGENCY

DESIGNER DAW
REVIEWER TJF 7-28-25
PROJECT ID 119380
SHEET P.70 TOTAL 365

CUY-77-15.46

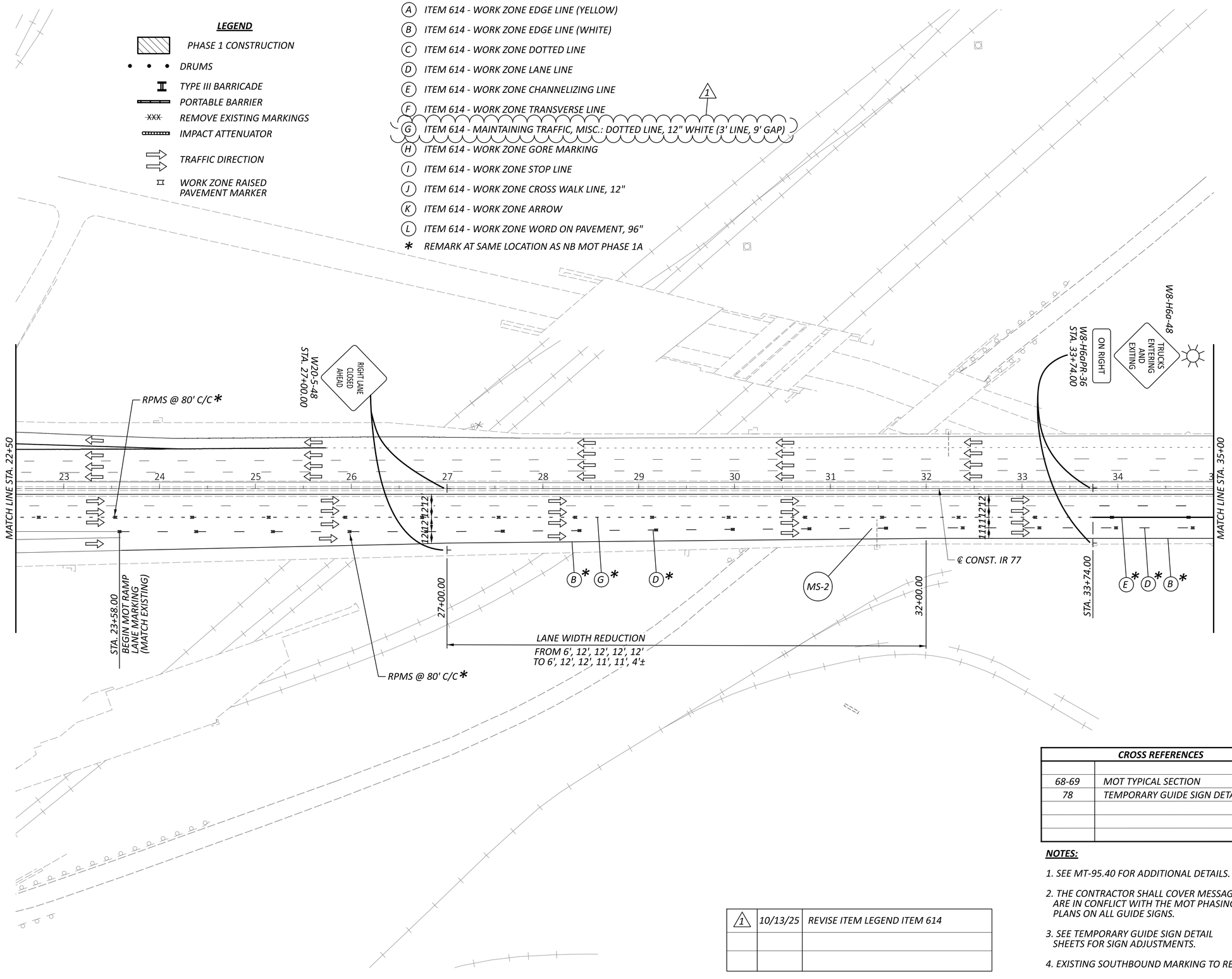
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LEGEND

- PHASE 1 CONSTRUCTION
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- XXX REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP) 1
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"
- * REMARK AT SAME LOCATION AS NB MOT PHASE 1A



1	10/13/25	REVISE ITEM LEGEND ITEM 614

CROSS REFERENCES	
68-69	MOT TYPICAL SECTION
78	TEMPORARY GUIDE SIGN DETAILS

NOTES:

1. SEE MT-95.40 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.
4. EXISTING SOUTHBOUND MARKING TO REMAIN.

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PLAN - NB PHASE 1
STA. 22+50.00 TO STA. 35+00.00

DESIGN AGENCY

DESIGNER DAW

REVIEWER TJF 7-28-25

PROJECT ID 119380

SHEET P.71 TOTAL 365

CUY-77-15.46

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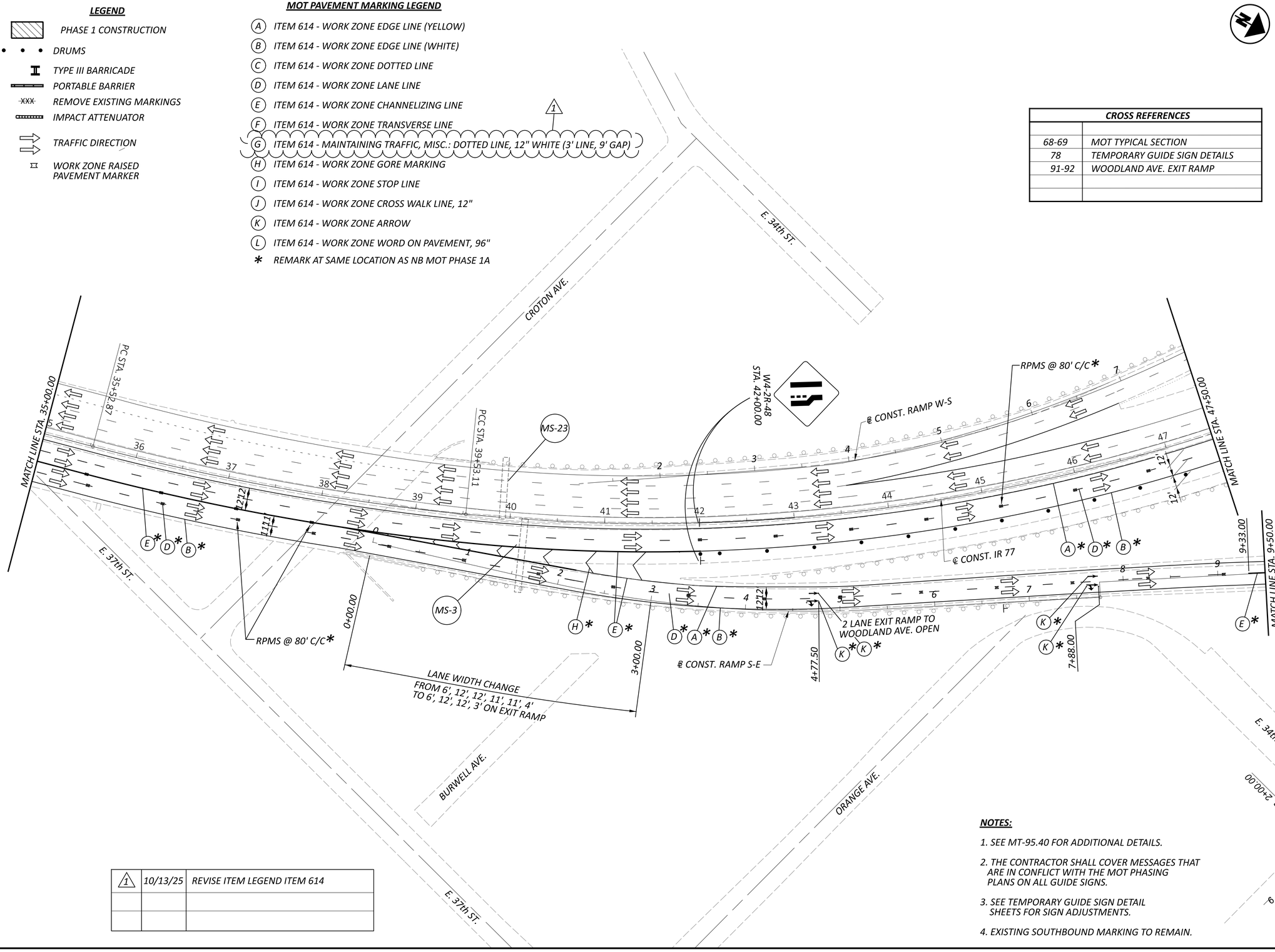
LEGEND

- PHASE 1 CONSTRUCTION
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- XXX REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP)
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"
- * REMARK AT SAME LOCATION AS NB MOT PHASE 1A

CROSS REFERENCES	
68-69	MOT TYPICAL SECTION
78	TEMPORARY GUIDE SIGN DETAILS
91-92	WOODLAND AVE. EXIT RAMP



1	10/13/25	REVISE ITEM LEGEND ITEM 614

NOTES:

1. SEE MT-95.40 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.
4. EXISTING SOUTHBOUND MARKING TO REMAIN.

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PLAN - NB PHASE 1
STA. 35+00.00 TO STA. 47+50.00

DESIGN AGENCY

DESIGNER DAW
REVIEWER TJF 7-28-25
PROJECT ID 119380
SHEET P.72 TOTAL 365

CUY-77-15.46

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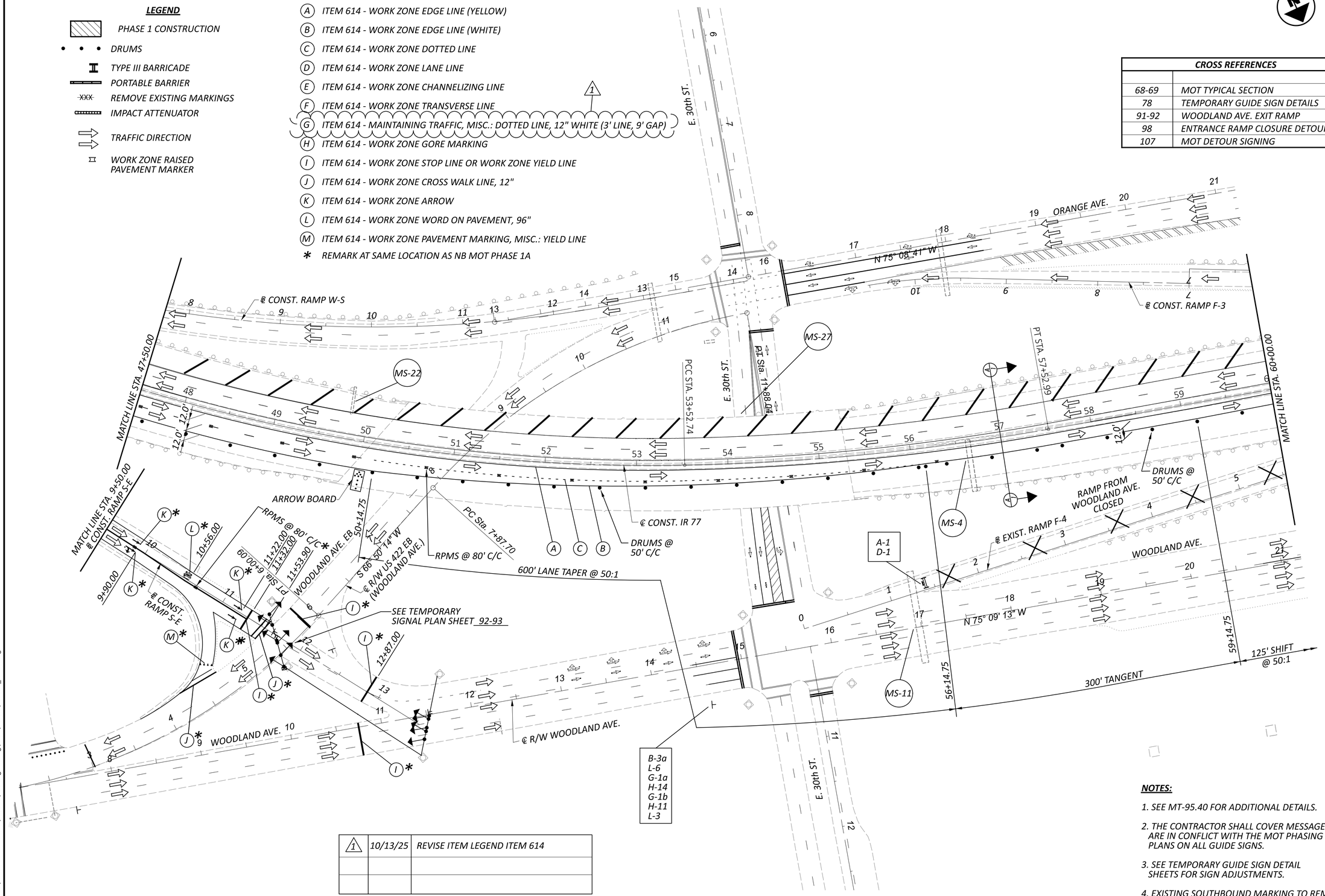
LEGEND

- PHASE 1 CONSTRUCTION
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP)
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE OR WORK ZONE YIELD LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"
- (M) ITEM 614 - WORK ZONE PAVEMENT MARKING, MISC.: YIELD LINE
- * REMARK AT SAME LOCATION AS NB MOT PHASE 1A

CROSS REFERENCES	
68-69	MOT TYPICAL SECTION
78	TEMPORARY GUIDE SIGN DETAILS
91-92	WOODLAND AVE. EXIT RAMP
98	ENTRANCE RAMP CLOSURE DETOUR
107	MOT DETOUR SIGNING



1	10/13/25	REVISE ITEM LEGEND ITEM 614

NOTES:

1. SEE MT-95.40 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.
4. EXISTING SOUTHBOUND MARKING TO REMAIN.

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PLAN - NB PHASE 1 STA. 47+50.00 TO STA. 60+00.00

DESIGN AGENCY

DESIGNER DAW
REVIEWER TJF 7-28-25
PROJECT ID 119380
SHEET P.73 TOTAL 365

CUY-77-15.46

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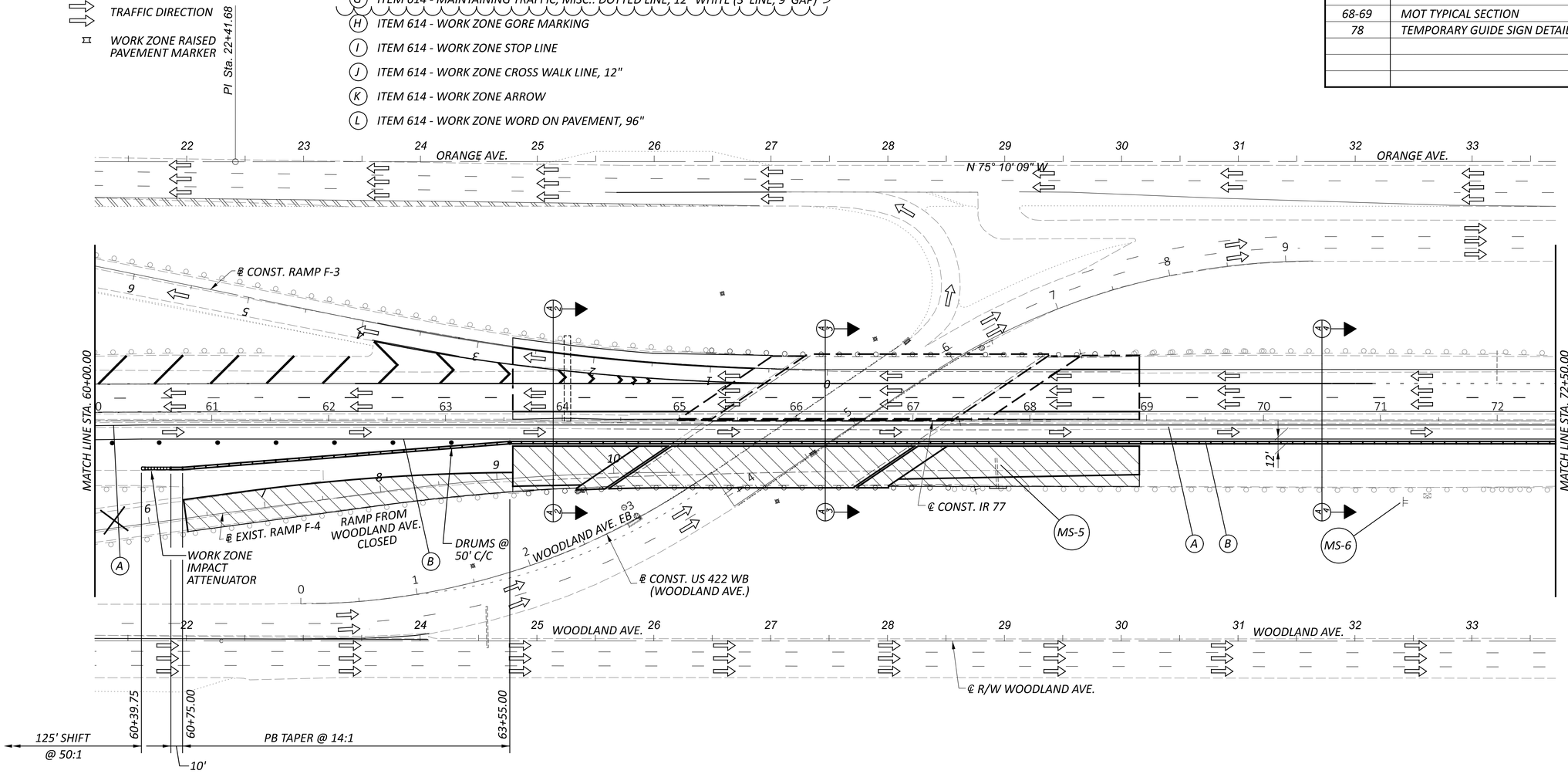
LEGEND

- PHASE 1 CONSTRUCTION
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- XXX REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP) (1)
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"

CROSS REFERENCES	
68-69	MOT TYPICAL SECTION
78	TEMPORARY GUIDE SIGN DETAILS



1	10/13/25	REVISE ITEM LEGEND ITEM 614

NOTES:

1. SEE MT-95.40 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.
4. EXISTING SOUTHBOUND MARKING TO REMAIN.
5. THE CONTRACTOR MAY USE THE CLOSED RAMPS AND SIDE SLOPES TO ACCESS THE WORK AREA ALONG THE OUTSIDE. ANY GUARDRAIL THAT IS REMOVED FOR CONTRACTOR ACCESS SHALL BE REPLACED PRIOR TO THE REMOVAL OF THE WORK ZONE.

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PLAN - NB PHASE 1
STA. 60+00.00 TO STA. 72+50.00

DESIGN AGENCY

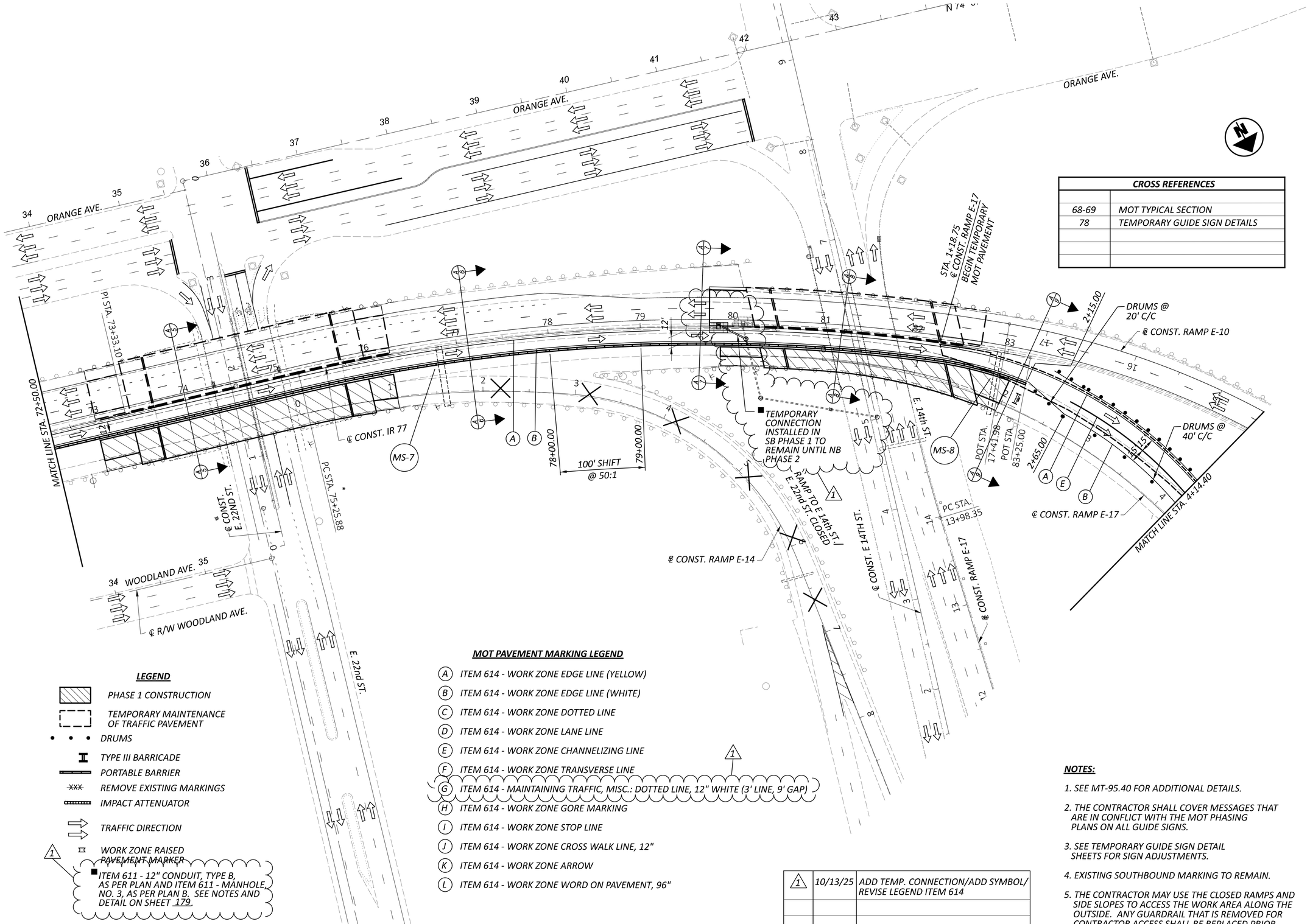
DESIGNER DAW
REVIEWER TJF 7-28-25
PROJECT ID 119380
SHEET P.74 TOTAL 365

CUY-77-15.46

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CUY-77-15.46



CROSS REFERENCES	
68-69	MOT TYPICAL SECTION
78	TEMPORARY GUIDE SIGN DETAILS

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PLAN - NB PHASE 1
STA. 72+50.00 TO STA. 4+00.00

LEGEND

- PHASE 1 CONSTRUCTION
- TEMPORARY MAINTENANCE OF TRAFFIC PAVEMENT
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- XXX REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER

1 ■ ITEM 611 - 12" CONDUIT, TYPE B, AS PER PLAN AND ITEM 611 - MANHOLE, NO. 3, AS PER PLAN B. SEE NOTES AND DETAIL ON SHEET 179.

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- 1 (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP)
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"

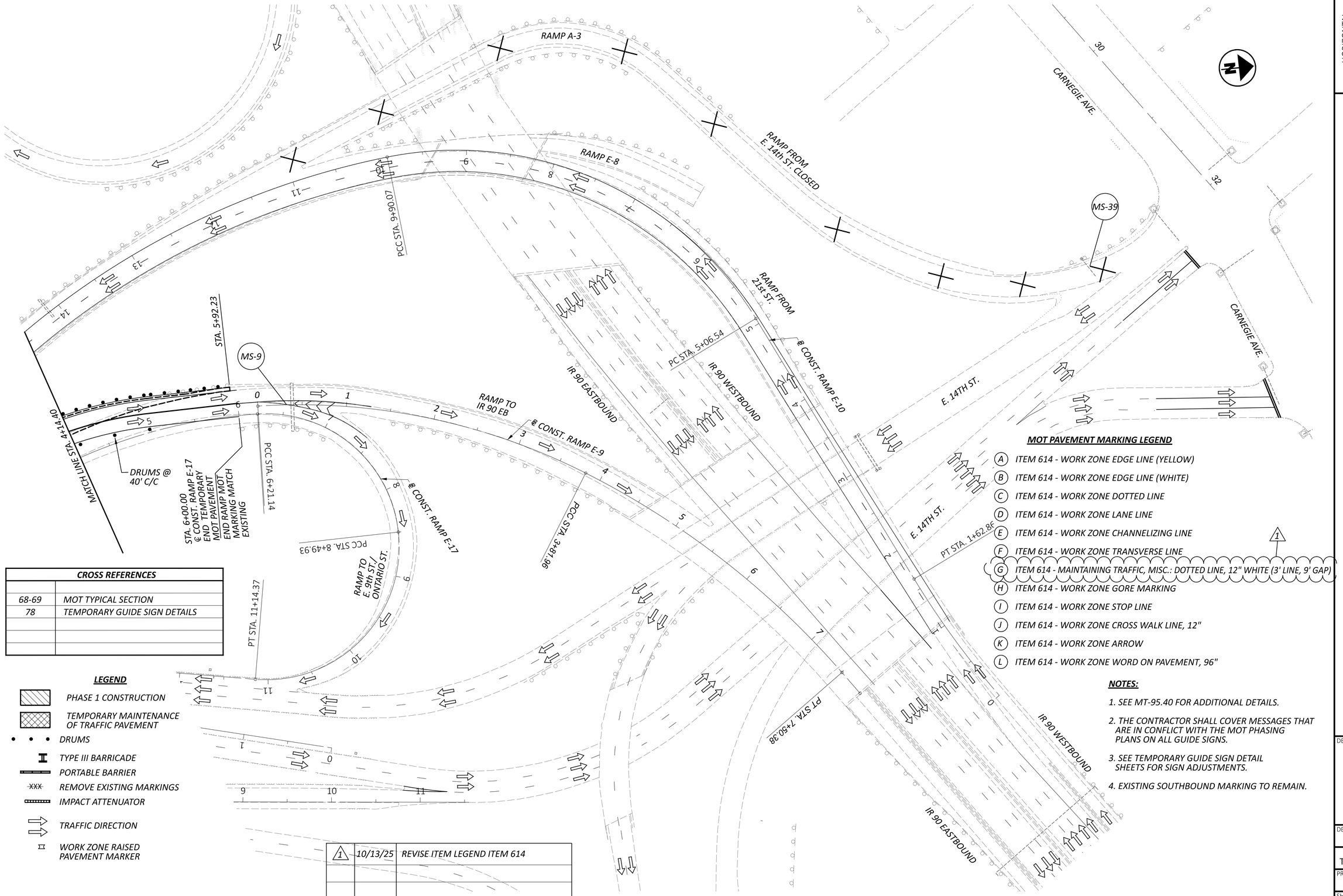
1	10/13/25	ADD TEMP. CONNECTION/ADD SYMBOL/ REVISE LEGEND ITEM 614

NOTES:

1. SEE MT-95.40 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.
4. EXISTING SOUTHBOUND MARKING TO REMAIN.
5. THE CONTRACTOR MAY USE THE CLOSED RAMPS AND SIDE SLOPES TO ACCESS THE WORK AREA ALONG THE OUTSIDE. ANY GUARDRAIL THAT IS REMOVED FOR CONTRACTOR ACCESS SHALL BE REPLACED PRIOR TO THE REMOVAL OF THE WORK ZONE.

DESIGN AGENCY

DESIGNER DAW
REVIEWER TJF 7-28-25
PROJECT ID 119380
SHEET P.75 TOTAL 365



CROSS REFERENCES	
68-69	MOT TYPICAL SECTION
78	TEMPORARY GUIDE SIGN DETAILS

LEGEND

- PHASE 1 CONSTRUCTION
- TEMPORARY MAINTENANCE OF TRAFFIC PAVEMENT
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- XXX REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP) (1)
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"

NOTES:

1. SEE MT-95.40 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.
4. EXISTING SOUTHBOUND MARKING TO REMAIN.

1	10/13/25	REVISE ITEM LEGEND ITEM 614

HORIZONTAL SCALE IN FEET
0 25 50 100

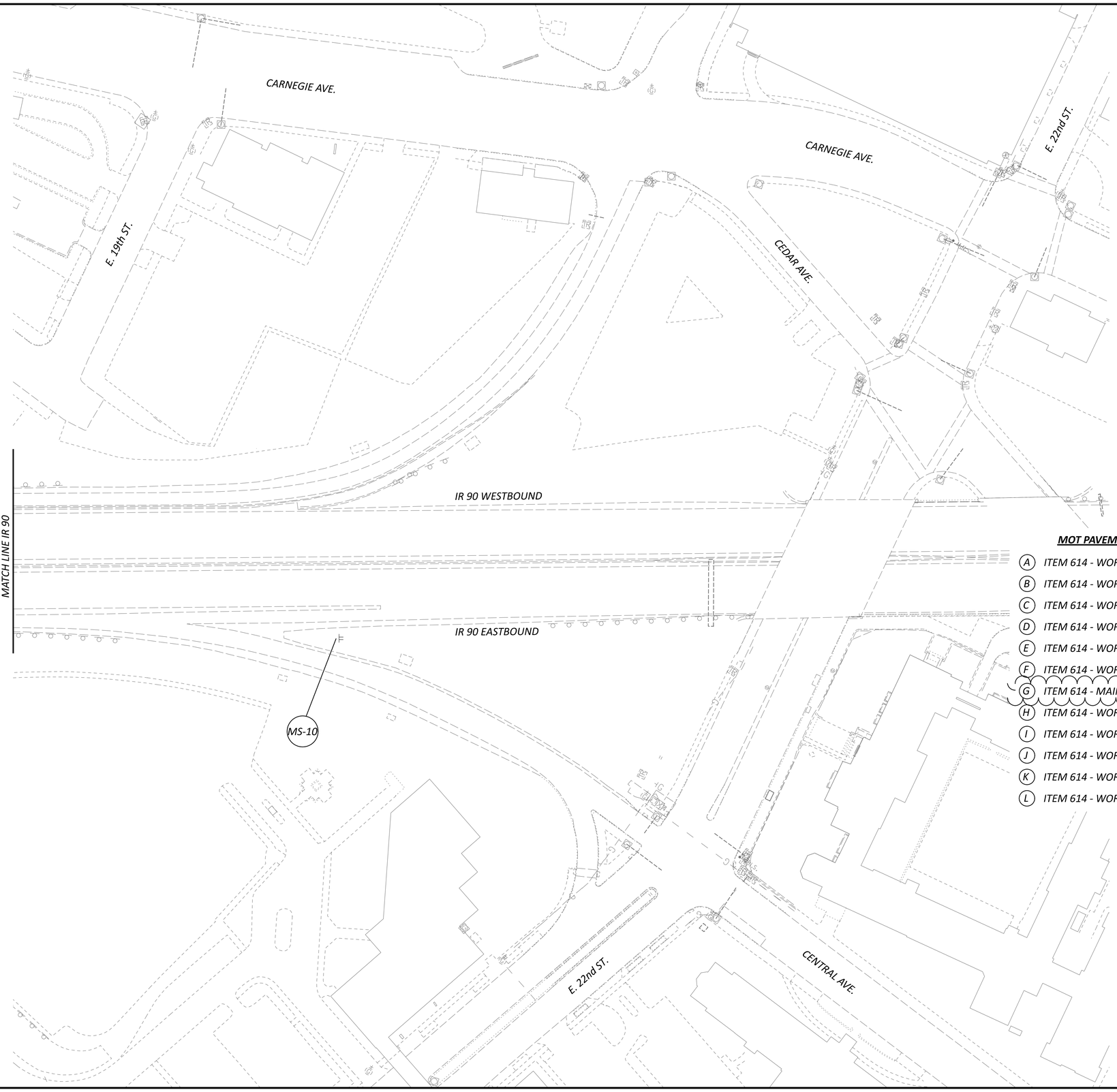
MAINTENANCE OF TRAFFIC PLAN - NB PHASE 1
STA. 4+00.00 TO STA. 7+00.00

DESIGN AGENCY

DESIGNER: DAW
REVIEWER: TJF 7-28-25
PROJECT ID: 119380
SHEET: P.76 TOTAL: 365

CUY-77-15.46

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HORIZONTAL SCALE IN FEET
0 25 50 100

LEGEND

- PHASE 1 CONSTRUCTION
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- XXX REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION

CROSS REFERENCES	
68-69	MOT TYPICAL SECTION
78	TEMPORARY GUIDE SIGN DETAILS

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP) — 1
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"

NOTES:

1. SEE MT-95.40 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.

1	10/13/25	REVISE ITEM LEGEND ITEM 614

MAINTENANCE OF TRAFFIC PLAN - NB PHASE 1
IR 90

DESIGN AGENCY

DESIGNER DAW

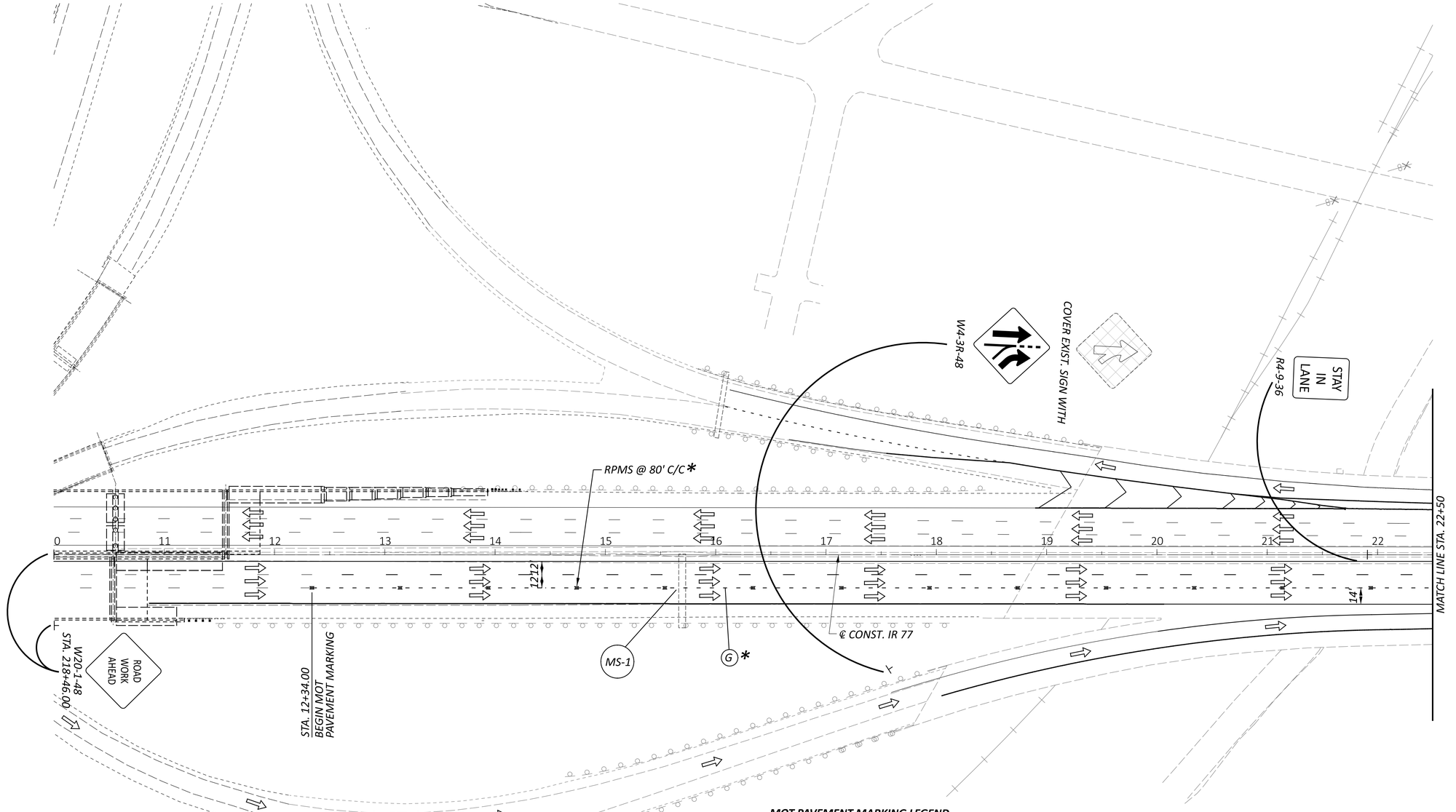
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PROJECT ID 119380

SHEET P.77 TOTAL 365

CUY-77-15.46

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MOT PAVEMENT MARKING LEGEND

- (A) *ITEM 614 - WORK ZONE EDGE LINE (YELLOW)*
- (B) *ITEM 614 - WORK ZONE EDGE LINE (WHITE)*
- (C) *ITEM 614 - WORK ZONE DOTTED LINE*
- (D) *ITEM 614 - WORK ZONE LANE LINE*
- (E) *ITEM 614 - WORK ZONE CHANNELIZING LINE*
- (F) *ITEM 614 - WORK ZONE TRANSVERSE LINE*
- (G) *ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP)* — 1
- (H) *ITEM 614 - WORK ZONE GORE MARKING*
- (I) *ITEM 614 - WORK ZONE STOP LINE*
- (J) *ITEM 614 - WORK ZONE CROSS WALK LINE, 12"*
- (K) *ITEM 614 - WORK ZONE ARROW*
- (L) *ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"*
- * *MARKING IN PLACE FROM NB PHASE 1*

LEGEND

- *PHASE 2 CONSTRUCTION*
- *DRUMS*
- *TYPE III BARRICADE*
- *PORTABLE BARRIER*
- *REMOVE EXISTING MARKINGS*
- *IMPACT ATTENUATOR*
- *TRAFFIC DIRECTION*
- *WORK ZONE RAISED PAVEMENT MARKER*

1	10/13/25	REVISE ITEM LEGEND ITEM 614

CROSS REFERENCES	
79-80	MOT TYPICAL SECTION
88	TEMPORARY GUIDE SIGN DETAILS

NOTES:

1. *SEE MT-102.10 FOR ADDITIONAL DETAILS.*
2. *THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.*

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PLAN - NB PHASE 2
STA. 10+00.00 TO STA. 22+50.00

DESIGN AGENCY

DESIGNER DAW
REVIEWER TJF 7-28-25
PROJECT ID 119380
SHEET P.81 TOTAL 365

CUY-77-15.46

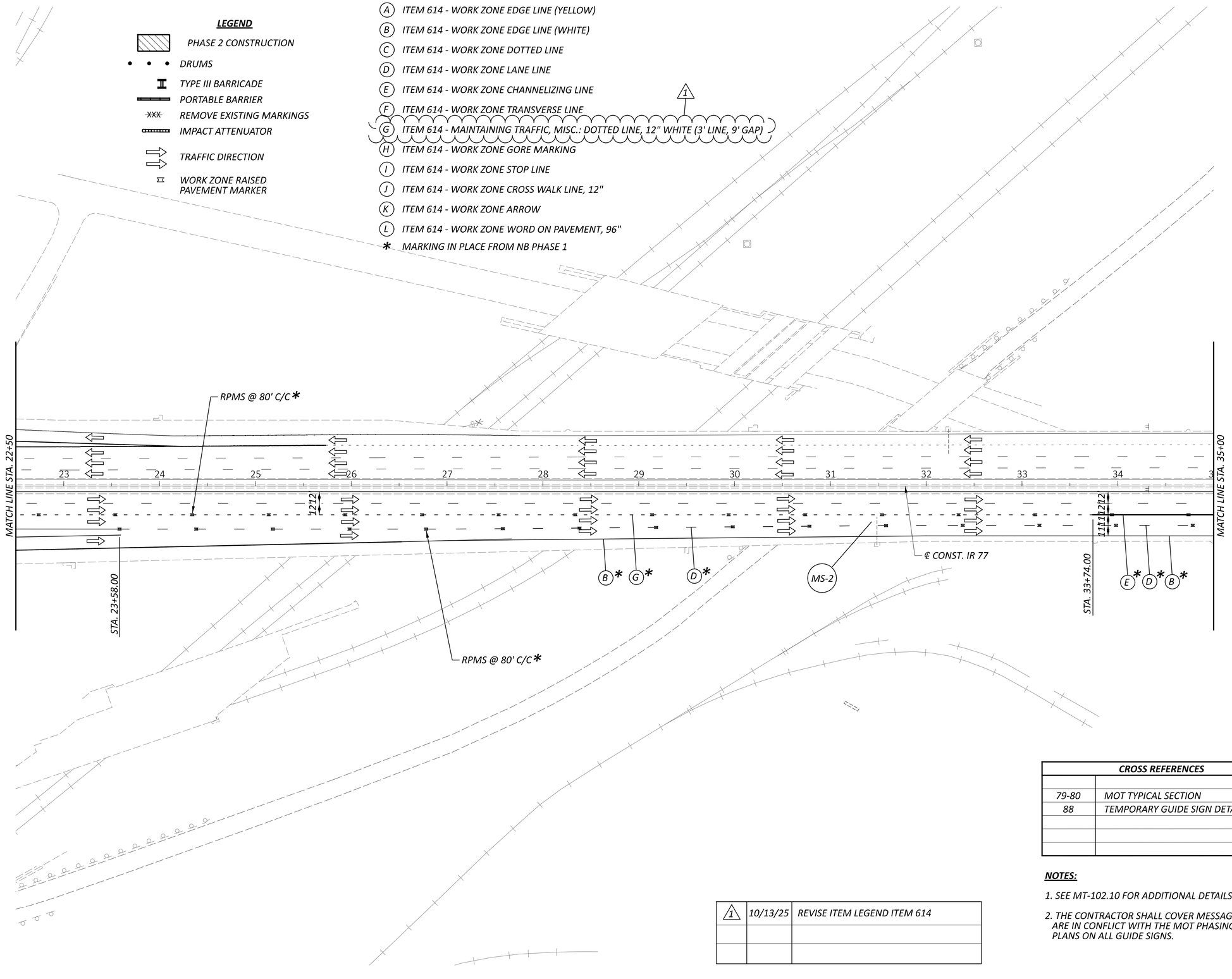
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LEGEND

- PHASE 2 CONSTRUCTION
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP) (1)
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"
- * MARKING IN PLACE FROM NB PHASE 1



CROSS REFERENCES	
79-80	MOT TYPICAL SECTION
88	TEMPORARY GUIDE SIGN DETAILS

NOTES:

1. SEE MT-102.10 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.

1	10/13/25	REVISE ITEM LEGEND ITEM 614

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PLAN - NB PHASE 2
STA. 22+50.00 TO STA. 35+00.00

DESIGN AGENCY

DESIGNER DAW
REVIEWER TJF 7-28-25
PROJECT ID 119380
SHEET P.82 TOTAL 365

CUY-77-15.46

MODEL: MOT Begin-1 - 1 PAPERSIZE: 34x22 (in.) DATE: 10/13/2025 TIME: 10:59:17 AM USER: SMorr
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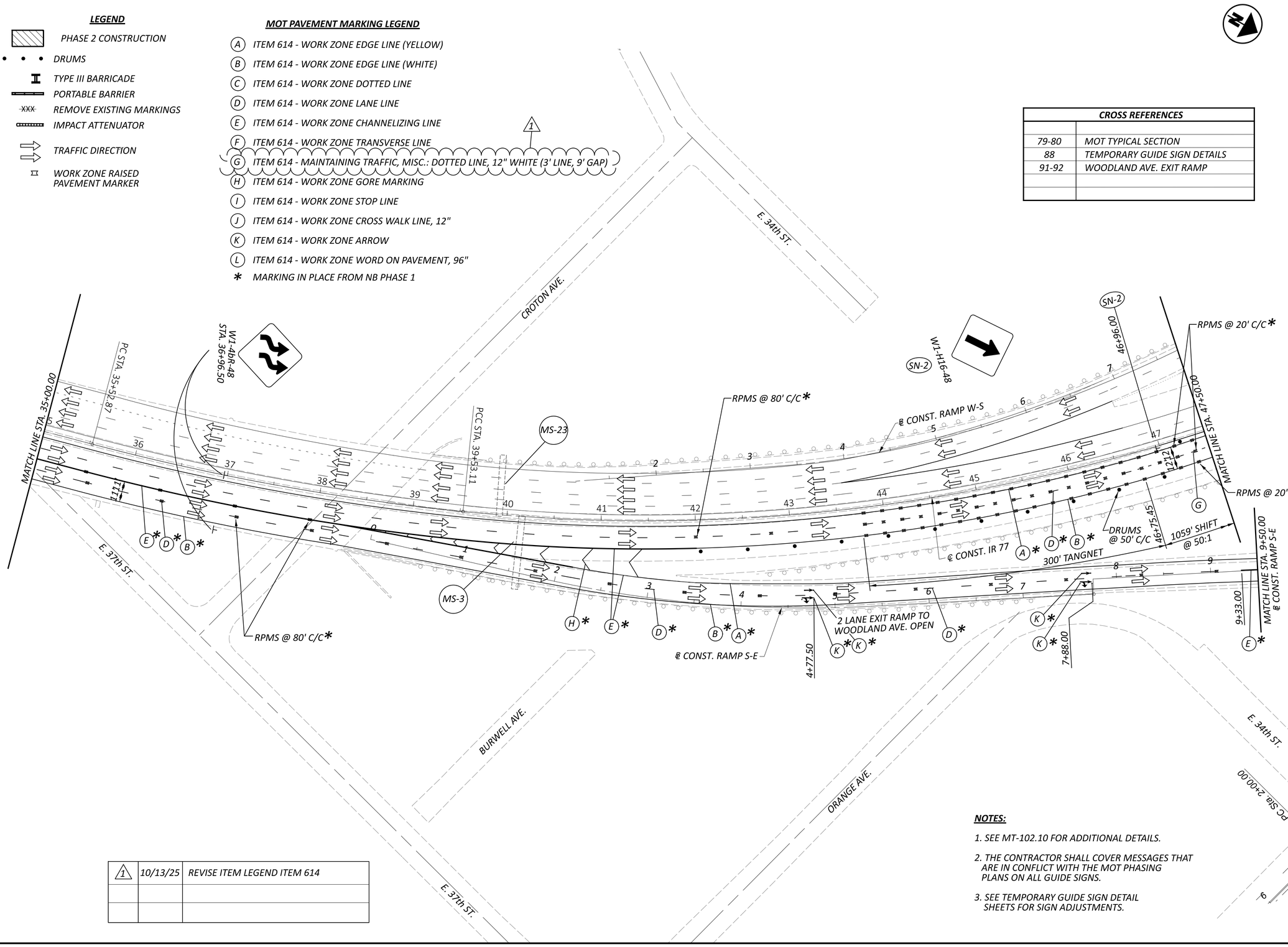
LEGEND

- PHASE 2 CONSTRUCTION
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- XXX REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP)
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"
- * MARKING IN PLACE FROM NB PHASE 1

CROSS REFERENCES	
79-80	MOT TYPICAL SECTION
88	TEMPORARY GUIDE SIGN DETAILS
91-92	WOODLAND AVE. EXIT RAMP



NOTES:

1. SEE MT-102.10 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.

1	10/13/25	REVISE ITEM LEGEND ITEM 614

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PLAN - NB PHASE 2
STA. 35+00.00 TO STA. 47+50.00

DESIGN AGENCY

DESIGNER DAW
REVIEWER TJF 7-28-25
PROJECT ID 119380
SHEET P.83 TOTAL 365

CUY-77-15.46

MODEL: CLX_IR-77 - Plan 1 PAPERSIZE: 34x22 (in.) DATE: 10/13/2025 TIME: 11:00:46 AM USER: SMorr
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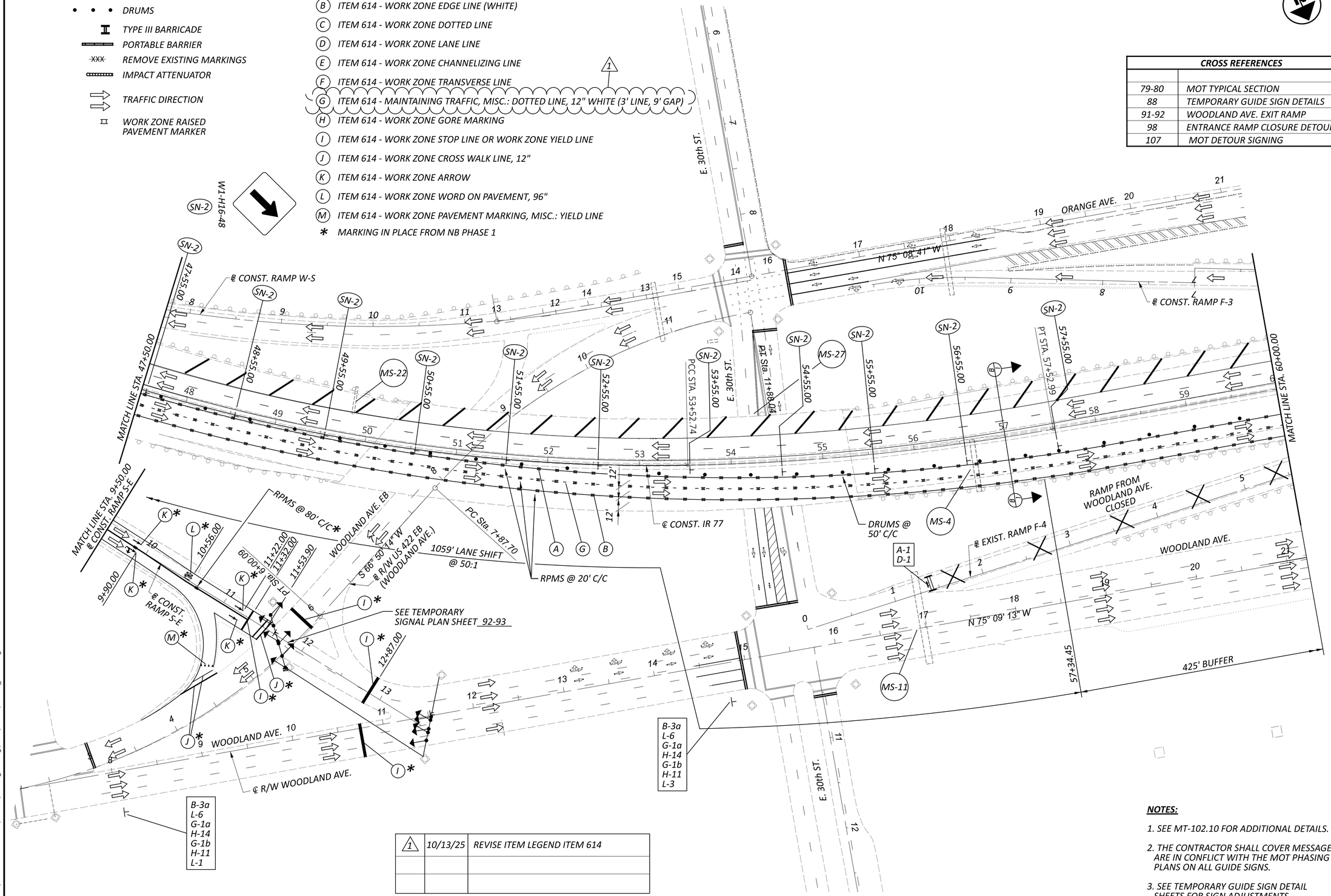
LEGEND

- PHASE 2 CONSTRUCTION
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP)
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE OR WORK ZONE YIELD LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"
- (M) ITEM 614 - WORK ZONE PAVEMENT MARKING, MISC.: YIELD LINE
- * MARKING IN PLACE FROM NB PHASE 1

CROSS REFERENCES	
79-80	MOT TYPICAL SECTION
88	TEMPORARY GUIDE SIGN DETAILS
91-92	WOODLAND AVE. EXIT RAMP
98	ENTRANCE RAMP CLOSURE DETOUR
107	MOT DETOUR SIGNING



1	10/13/25	REVISE ITEM LEGEND ITEM 614

NOTES:

1. SEE MT-102.10 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PLAN - NB PHASE 2
STA. 47+50.00 TO STA. 60+00.00

DESIGN AGENCY

DESIGNER DAW
REVIEWER TJF 7-28-25
PROJECT ID 119380
SHEET P.84 TOTAL 365

CUY-77-15.46

MODEL: CLX_IR-77 - Plan 2 PAPERSIZE: 34x22 (in.) DATE: 10/13/2025 TIME: 11:03:25 AM USER: SMorr
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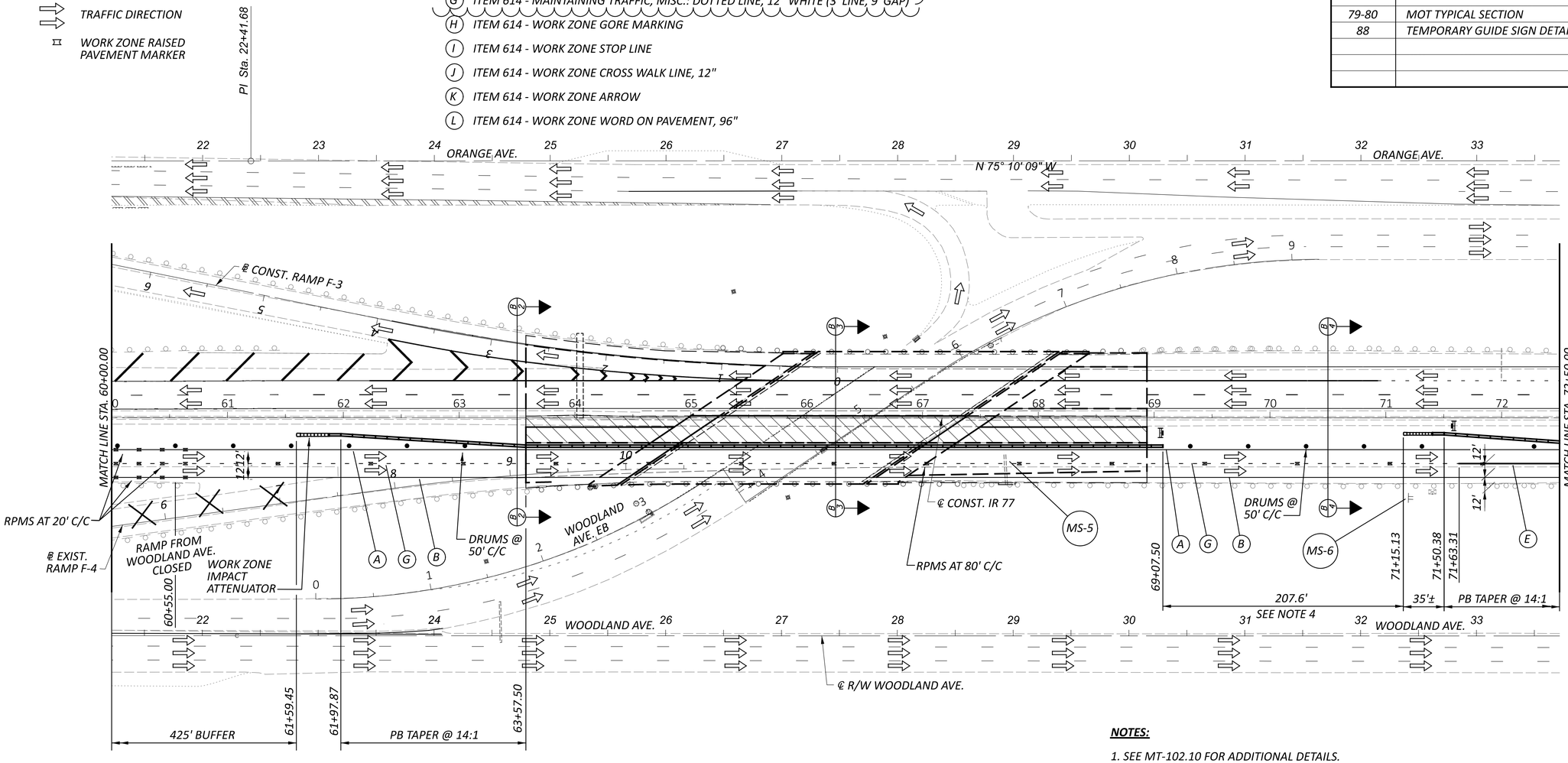
LEGEND

- PHASE 2 CONSTRUCTION
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- XXX REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP) (1)
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"

CROSS REFERENCES	
79-80	MOT TYPICAL SECTION
88	TEMPORARY GUIDE SIGN DETAILS



NOTES:

1. SEE MT-102.10 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.
4. CONSTRACTORS CONSTRUCTION ACCESS BETWEEN BRIDGES SHALL BE PROVIDED. CONSTRUCTION ACCESS SHALL ONLY BE USED DURING PERMITTED LANE CLOSURE TIMES ON IR 77 IN CONJUCTION WITH A LEFT LANE CLOSURE. THE LANE SHIFT WILL BE DELINEATED WITH DRUMS AT 50' CENTER TO CENTER SPACING ALONG THE LEFT AND THE RIGHT, WITH THE DRUMS ALONG THE LEFT EXTENDING NORTHBOUND TO CLOSE OFF THE LANE THROUGH THE CONSTRUCTION ACCESS. CONTRACTOR SHALL USE THE CLOSED LEFT LANE TO ACCESS THE WORK ZONE EITHER DIRECTLY OR BY BACKING INTO AS NECESSARY. EXITING THE WORK ZONE USING THE CONSTRUCTION ACCESS SHALL ALSO ONLY BE DURING THE LEFT LANE CLOSURE. THE LENGTH OF THE LEFT LANE CLOSURE BEYOND THE CONSTRUCTION ACCESS SHALL BE OF A LENGTH TO ALLOW FOR CONSTRUCTION EQUIPMENT TO ACHEIVE A THROUGH TRAFFIC SPEED. SEE STANDARD CONSTRUCTION DRAWING MT-103.10 FOR SIGNING REQUIREMENTS.

1	10/13/25	REVISE ITEM LEGEND ITEM 614

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PLAN - NB PHASE 2
STA. 60+00.00 TO STA. 72+50.00

DESIGN AGENCY

DESIGNER DAW

REVIEWER TJF 7-28-25

PROJECT ID 119380

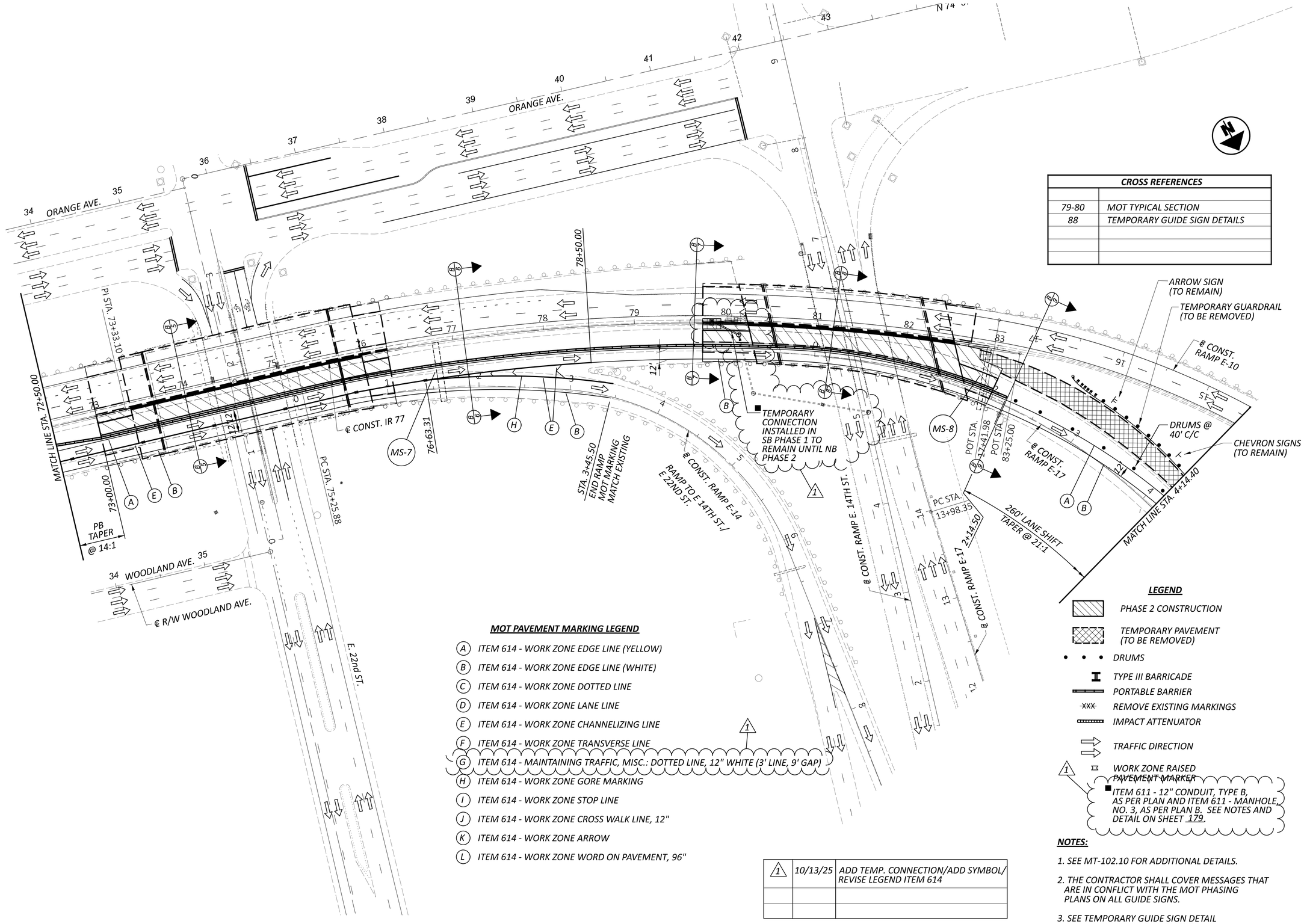
SHEET P.85 | TOTAL 365

CUY-77-15.46

MODEL: CLX_IR-77 - Plan 3 PAPERSIZE: 34x22 (in.) DATE: 10/13/2025 TIME: 11:04:43 AM USER: SMorr
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CUY-77-15.46



CROSS REFERENCES	
79-80	MOT TYPICAL SECTION
88	TEMPORARY GUIDE SIGN DETAILS

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP)
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"

LEGEND

- PHASE 2 CONSTRUCTION
- TEMPORARY PAVEMENT (TO BE REMOVED)
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- XXX REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER
- (1) ■ ITEM 611 - 12" CONDUIT, TYPE B, AS PER PLAN AND ITEM 611 - MANHOLE, NO. 3, AS PER PLAN B. SEE NOTES AND DETAIL ON SHEET 179

1	10/13/25	ADD TEMP. CONNECTION/ADD SYMBOL/ REVISE LEGEND ITEM 614

NOTES:

1. SEE MT-102.10 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.

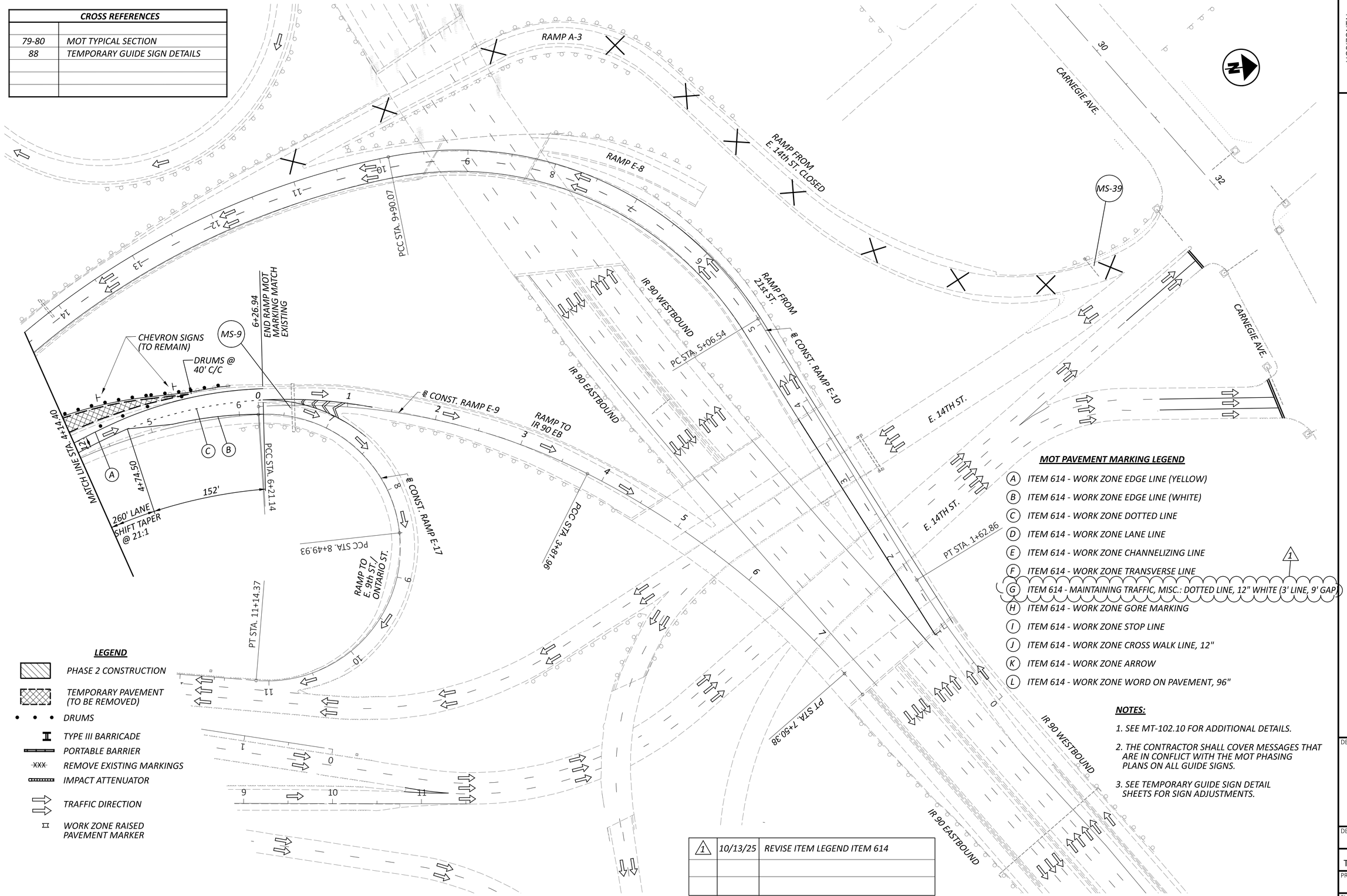
HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PLAN - NB PHASE 2 STA. 72+50.00 TO STA. 4+00.00

DESIGN AGENCY

DESIGNER DAW
REVIEWER TJF 7-28-25
PROJECT ID 119380
SHEET P.86 TOTAL 365

CROSS REFERENCES	
79-80	MOT TYPICAL SECTION
88	TEMPORARY GUIDE SIGN DETAILS



LEGEND

- PHASE 2 CONSTRUCTION
- TEMPORARY PAVEMENT (TO BE REMOVED)
- DRUMS
- TYPE III BARRICADE
- PORTABLE BARRIER
- REMOVE EXISTING MARKINGS
- IMPACT ATTENUATOR
- TRAFFIC DIRECTION
- WORK ZONE RAISED PAVEMENT MARKER

MOT PAVEMENT MARKING LEGEND

- (A) ITEM 614 - WORK ZONE EDGE LINE (YELLOW)
- (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
- (C) ITEM 614 - WORK ZONE DOTTED LINE
- (D) ITEM 614 - WORK ZONE LANE LINE
- (E) ITEM 614 - WORK ZONE CHANNELIZING LINE
- (F) ITEM 614 - WORK ZONE TRANSVERSE LINE
- (G) ITEM 614 - MAINTAINING TRAFFIC, MISC.: DOTTED LINE, 12" WHITE (3' LINE, 9' GAP) (1)
- (H) ITEM 614 - WORK ZONE GORE MARKING
- (I) ITEM 614 - WORK ZONE STOP LINE
- (J) ITEM 614 - WORK ZONE CROSS WALK LINE, 12"
- (K) ITEM 614 - WORK ZONE ARROW
- (L) ITEM 614 - WORK ZONE WORD ON PAVEMENT, 96"

NOTES:

1. SEE MT-102.10 FOR ADDITIONAL DETAILS.
2. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS.
3. SEE TEMPORARY GUIDE SIGN DETAIL SHEETS FOR SIGN ADJUSTMENTS.

1	10/13/25	REVISE ITEM LEGEND ITEM 614

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PLAN - NB PHASE 2
STA. 4+00.00 TO STA. 7+00.00

DESIGN AGENCY

DESIGNER DAW
REVIEWER TJF 7-28-25
PROJECT ID 119380
SHEET P.87 TOTAL 365

CUY-77-15.46

MODEL: CLX_IR-77 - Plan 5 PAPERSIZE: 34x22 (in.) DATE: 10/13/2025 TIME: 11:08:02 AM USER: SMorr
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SHEET NUMBER												PARTICIPATION		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
17-21	22-30	38	120	122	123	125	126-135	179	191	192	204	01/IMS							
																		ROADWAY	
LS												LS		201	11000	LS		CLEARING AND GRUBBING	
							6702					6702		202	23000	6702	SY	PAVEMENT REMOVED	
							1924					1924		202	30000	1924	SF	WALK REMOVED	
			77				581					658		202	30700	658	FT	CONCRETE BARRIER REMOVED	
			223				1053					1276		202	32000	1276	FT	CURB REMOVED	
					25							25		202	32600	25	FT	GUTTER REMOVED	
							108					108		202	32800	108	SY	CONCRETE SLOPE PROTECTION REMOVED	
					93							93		202	35100	93	FT	PIPE REMOVED, 24" DIAMETER AND UNDER	
			2555									2555		202	38000	2555	FT	GUARDRAIL REMOVED	
					2							2		202	58200	2	EACH	INLET REMOVED	
					66							66		SPECIAL	20270000	66	FT	FILL AND PLUG EXISTING CONDUIT (12" DIAMETER)	P.21
600												600		SPECIAL	20270110	600	FT	PIPE CLEANOUT, 24" AND UNDER	P.19
	247			2596								2843		203	10000	2843	CY	EXCAVATION	
				682								682		203	20000	682	CY	EMBANKMENT	
							7996					7996		204	10000	7996	SY	SUBGRADE COMPACTION	
100												100		204	13000	100	CY	EXCAVATION OF SUBGRADE	
100												100		204	30010	100	CY	GRANULAR MATERIAL, TYPE B	
							4					4		204	45000	4	HOUR	PROOF ROLLING	
1000												1000		204	50000	1000	SY	GEOTEXTILE FABRIC	
300												300		209	10001	300	FT	DITCH CLEANOUT, AS PER PLAN	P.21
			24									24		209	15001	24	STA	RESHAPING UNDER GUARDRAIL, AS PER PLAN	P.19
20							9					29		209	60201	29	STA	LINEAR GRADING, AS PER PLAN	P.19
			2207									2207		606	15050	2207	FT	GUARDRAIL, TYPE MGS	
			1									1		606	26550	1	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
			8									8		606	35002	8	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
			8									8		606	35102	8	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
			100									100		607	98000 (1)	100	FT	FENCE, MISC.: REMOVE AND REERECT (1)	P.21
							1895					1895		608	10000	1895	SF	4" CONCRETE WALK	
							303					303		622	10140	303	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C1	
			40									40		622	10161	40	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN	P.19
							4					4		622	10200 (1)	4	EACH	BARRIER TRANSITION (1)	
							1					1		622	10201	1	EACH	BARRIER TRANSITION, AS PER PLAN	P.19
			4									4		622	25000	4	EACH	CONCRETE BARRIER END SECTION, TYPE D	
							6					6		622	25014	6	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1	
							2					2		622	25015	2	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1, AS PER PLAN	P.187
		3										3		622	90200	3	EACH	BARRIER, MISC.: TEMPORARY MEDIAN BARRIER TRANSITION	P.30
5												5		623	39500	5	EACH	MONUMENT ASSEMBLY ADJUSTED TO GRADE	
5												5		623	40520	5	EACH	RIGHT-OF-WAY MONUMENT, TYPE B	

1	10/13/25	REVISE QUANTITIES, ADD COLUMN, CHANGE BARRIER TYPE

GENERAL SUMMARY

DESIGN AGENCY

DESIGNER ALP

REVIEWER PRS 7-28-25

PROJECT ID 119380

SHEET P.114 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/17/2025 TIME: 9:04:29 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@manniksmithgroup.com WORKSPACE: OHDOTCEv02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
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17-21	22-30	38	120	122	123	125	126-135	179	191	192	204	01/IMS							
																		EROSION CONTROL	
							3362					3362		601	21001	3362	SY	CONCRETE SLOPE PROTECTION, AS PER PLAN	P.19
4						17						21		601	21050	21	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
					68							68		601	21060	68	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT	
					18							18		601	32204	18	CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC	
2												2		659	00100	2	EACH	SOIL ANALYSIS TEST	
688												688		659	00300	688	CY	TOPSOIL	
6196												6196		659	10000	6196	SY	SEEDING AND MULCHING	
310												310		659	14000	310	SY	REPAIR SEEDING AND MULCHING	
310												310		659	15000	310	SY	INTER-SEEDING	
0.84												0.84		659	20000	0.84	TON	COMMERCIAL FERTILIZER	
1.28												1.28		659	31000	1.28	ACRE	LIME	
35												35		659	35000	35	MGAL	WATER	
							2826					2826		670	00501	2826	SY	SLOPE EROSION PROTECTION, AS PER PLAN	P.19
100000												100000		832	30000	100000	EACH	EROSION CONTROL	
					32							32		836	10000	32	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	
																		DRAINAGE	
					1.1							1.1		602	20000	1.1	CY	CONCRETE MASONRY	
						971						971		605	11110	971	FT	6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, 707.33 OR 707.41	
50						1340						1390		605	13410	1390	FT	6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, 707.33 OR 707.41	
						627						627		605	14020	627	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, 707.33 OR 707.41	
						298						298		611	00510	298	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS, 707.33 OR 707.41	
						394						394		611	00900	394	FT	6" CONDUIT, TYPE B, 707.33 OR 707.41	
50												50		611	01500	50	FT	6" CONDUIT, TYPE F	
					4							4		611	04400	4	FT	12" CONDUIT, TYPE B, 706.02	
								37				37		611	04401	37	FT	12" CONDUIT, TYPE B, AS PER PLAN	P.179
					8							8		611	04600	8	FT	12" CONDUIT, TYPE C, 706.02	
					49							49		611	05900	49	FT	15" CONDUIT, TYPE B	
					52							52		611	06100	52	FT	15" CONDUIT, TYPE C	
					259							259		611	06700	259	FT	15" CONDUIT, TYPE F, 707.05 TYPE C, 707.21 OR 707.33	
						154						154		611	96600	154	FT	CONDUIT, BORED OR JACKED (6", TYPE B)	
					5							5		611	98180	5	EACH	CATCH BASIN, NO. 3A	
					3							3		611	98630	3	EACH	CATCH BASIN ADJUSTED TO GRADE	
					1							1		611	99110	1	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1	
					1							1		611	99150	1	EACH	INLET ADJUSTED TO GRADE	
					1							1		611	99151	1	EACH	INLET ADJUSTED TO GRADE, AS PER PLAN	P.19
					1							1		611	99575	1	EACH	MANHOLE, NO. 3, AS PER PLAN A	P.19
								1				1		611	99575	1	EACH	MANHOLE, NO. 3, AS PER PLAN B	P.179
					1							1		611	99654	1	EACH	MANHOLE ADJUSTED TO GRADE	
2						9						11		611	99710	11	EACH	PRECAST REINFORCED CONCRETE OUTLET	
5000												5000		SPECIAL	61199820	5000	LB	MISCELLANEOUS METAL	P.18

GENERAL SUMMARY

1	10/13/25	REVISE QUANTITIES, ADD COLUMN, ADD MANHOLE ITEM, CHANGE BARRIER TYPE

DESIGN AGENCY

DESIGNER ALP

REVIEWER PRS 7-28-25

PROJECT ID 119380

SHEET P.115 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/17/2025 TIME: 9:03:04 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@mannikksmithgroup.com WORKSPACE: OHDOTCEv02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
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SHEET NUMBER												PARTICIPATION		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
17-21	22-30	38	120	122	123	125	126-135	179	191	192	204	01/IMS							
																		PAVEMENT	
	685											685		251	01010	685	CY	PARTIAL DEPTH PAVEMENT REPAIR (441)	
100												100		253	02000	100	CY	PAVEMENT REPAIR	
	2327	1852										4179		254	01000	4179	SY	PAVEMENT PLANING, ASPHALT CONCRETE (THICKNESS = 1 1/2")	
							14928					14928		254	01000	14928	SY	PAVEMENT PLANING, ASPHALT CONCRETE (VARIABLE THICKNESS = 0" TO 3", 1 1/2" NORMAL)	
	1232											1232		255	19001	1232	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, TYPE 1, CLASS QC RS, AS PER PLAN A	P.27
	1232											1232		255	19001	1232	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, TYPE 1, CLASS QC RS, AS PER PLAN B	P.27
	8448											8448		255	20000	8448	FT	FULL DEPTH PAVEMENT SAWING	
							1957					1957		302	56000	1957	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
	247						1326					1573		304	20000	1573	CY	AGGREGATE BASE	
	210	167					3305					3682		407	20000	3682	GAL	NON-TRACKING TACK COAT	
			77									77		441	70801	77	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN	P.19
							868					868		442	10001	868	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446),PG 76-22M, AS PER PLAN	P.19
							287					287		442	10080	287	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	
		78										78		442	22101	78	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN, PG 64-22, 1½"	P.26
			182									182		609	24510	182	FT	CURB, TYPE 4-C	
			50				1051					1101		609	26000	1101	FT	CURB, TYPE 6	
100							33					133		617	10101	133	CY	COMPACTED AGGREGATE, AS PER PLAN	P.19
							9					9		618	39000	9	EACH	RUMBLE STRIPS, TRANSVERSE (ASPHALT CONCRETE)	
		0.61					1.21					1.82		618	40600	1.82	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
																		LIGHTING	
											15	15		625	00480	15	EACH	CONNECTION, UNFUSED PERMANENT	
											1281	1281		625	23200	1281	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
											362	362		625	25400	362	FT	CONDUIT, 2", 725.04	
											28	28		625	27503	28	EACH	LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN (12,000 - 15,000 LUMENS)	P.203
											20	20		625	29002	20	FT	TRENCH, 24" DEEP	
											7	7		625	29900	7	EACH	JUNCTION BOX	
											1	1		625	30706	1	EACH	PULL BOX, 725.08, 24"	
											3	3		625	31510	3	EACH	PULL BOX REMOVED	
											3	3		625	33000	3	EACH	STRUCTURE GROUNDING SYSTEM	
											3	3		625	34001	3	EACH	POWER SERVICE, AS PER PLAN	P.203
											3	3		625	37101	3	EACH	SERVICE TO UNDERPASS LIGHTING, AS PER PLAN	P.203
											3	3		SPECIAL	62540004	3	EACH	MAINTAIN EXISTING LIGHTING	P.203
											3	3		625	75511	3	EACH	POWER SERVICE REMOVED, AS PER PLAN	P.203
											3	3		625	75800	3	EACH	DISCONNECT CIRCUIT	
											3	3		625	76000	3	EACH	ARC FLASH CALCULATIONS AND LABEL (CC-1, CC-2 & CC-3)	
											1	1		625	98000	1	EACH	LIGHTING, MISC.: DISCONNECT SWITCH	P.203
											3	3		625	98000	3	EACH	LIGHTING, MISC.: HL-40.20 SOLAR RADIATION SHIELD	P.203
											3	3		625	98000	3	EACH	LIGHTING, MISC.: REMOVAL OF UNDERPASS LIGHTING INSTALLATION	P.203
											730	730		632	69910	730	FT	SERVICE CABLE, 3 CONDUCTOR, WITH GROUND, NO. 4 AWG	

1	10/13/25	ADD COLUMN

GENERAL SUMMARY

DESIGN AGENCY

DESIGNER ALP

REVIEWER PRS 7-28-25

PROJECT ID 119380

SHEET P.116 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/14/2025 TIME: 9:23:18 AM USER: SMorr
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\Roadway\Sheets\119380_GG003.dgn

SHEET NUMBER												PARTICIPATION		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
17-21	22-30	38	120	122	123	125	126-135	179	191	192	204	01/IMS							
																		TRAFFIC CONTROL	
									10			10		620	00500	10	EACH	DELINEATOR, POST GROUND MOUNTED (TYPE C)	
									6			6		620	11000	6	EACH	DELINEATOR, BRACKET MOUNTED (TYPE C)	
									436			436		621	00100	436	EACH	RPM	
									358			358		621	54001	358	EACH	RAISED PAVEMENT MARKER REMOVED, AS PER PLAN	P.26
			12									12		626	00102	12	EACH	BARRIER REFLECTOR, TYPE 1, ONE-WAY	
							36					36		626	00102	36	EACH	BARRIER REFLECTOR, TYPE 1, BI-DIRECTIONAL	
			35									35		626	00110	35	EACH	BARRIER REFLECTOR, TYPE 2, ONE-WAY	
										123.8		123.8		630	02100	123.8	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
										59.8		59.8		630	03100	59.8	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
										4		4		630	08600	4	EACH	SIGN POST REFLECTOR	
										1		1		630	72420	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 2	
										89.9		89.9		630	80100	89.9	SF	SIGN, FLAT SHEET	
										6		6		630	81021	6	EACH	CONCRETE MEDIAN BARRIER SIGN BRACKET, AS PER PLAN	P.202
										1		1		630	84010	1	EACH	CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION, TYPE TC-21.50	
										1		1		630	84510	1	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	
										17		17		630	84900	17	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
										1		1		630	85101	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION, AS PER PLAN, NO. 1	P.21
										1		1		630	85101	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION, AS PER PLAN, NO. 2	P.21
										15		15		630	86002	15	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
										4		4		630	87100	4	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND REERECTION	
										1		1		630	89802	1	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-7.65	
		49104										49104		642	30000	49104	FT	REMOVAL OF PAVEMENT MARKING	
									25			25		646	10400	25	FT	STOP LINE	
									144			144		646	10510	144	FT	CROSSWALK LINE, 12"	
									961			961		646	10600	961	FT	TRANSVERSE/DIAGONAL LINE	
									435			435		646	10620	435	FT	CHEVRON MARKING	
									4			4		646	20300	4	EACH	LANE ARROW	
									1			1		646	20400	1	EACH	WORD ON PAVEMENT, 72"	
									17			17		646	20800	17	FT	YIELD LINE	
									5.16			5.16		807	12010	5.16	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6"	
									2.60			2.60		807	12110	2.60	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6"	
									4611			4611		807	12310	4611	FT	WET REFLECTIVE EPOXY PAVEMENT MARKING, CHANNELIZING LINE, 12"	
									2770			2770		807	12410	2770	FT	WET REFLECTIVE EPOXY PAVEMENT MARKING, DOTTED LINE, 6"	
									4292			4292		807	12430	4292	FT	WET REFLECTIVE EPOXY PAVEMENT MARKING, DOTTED LINE, 12"	
									7.04			7.04		850	10010	7.04	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
									2246			2246		850	10110	2246	FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
									7360			7360		850	10130	7360	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)	
									0.73			0.73		850	20010	0.73	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)	
									524			524		850	20110	524	FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)	
									1542			1542		850	20130	1542	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (CONCRETE)	

STRUCTURE CUY-77-1546 OVER WOODLAND AVE. (CUY-77-15.46; SFN 1806815)

ESTIMATED QUANTITIES, SEE SHEET 221

STRUCTURE CUY- 77 1562 OVER E.22ND ST. (CUY-77-15.62; SFN 1806874)

ESTIMATED QUANTITIES, SEE SHEET 278

STRUCTURE CUY- 77 1575 OVER E.14TH ST. (CUY-77-15.75; SFN 1806904)

ESTIMATED QUANTITIES, SEE SHEET 318

1	10/13/25	ADD COLUMN

GENERAL SUMMARY

DESIGN AGENCY

DESIGNER ALP

REVIEWER PRS 7-28-25

PROJECT ID 119380

SHEET P.117 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/14/2025 TIME: 9:26:26 AM USER: SMorr
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\Roadway\Sheets\119380_GG004.dgn

SHEET NUMBER												PARTICIPATION		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
17-21	22-30	38	120	122	123	125	126-135	179	191	192	204	01/IMS							
																		MAINTENANCE OF TRAFFIC	
	500											500		614	11110	500	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
		2										2		SPECIAL	61411300	2	EACH	WORK ZONE TRAFFIC SIGNAL	P.93
		6767										6767		614	11630	6767	FT	INCREASED BARRIER DELINEATION	
		8										8		614	12380	8	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
	LS											LS		614	12420	LS		DETOUR SIGNING	
	7											7		614	12484	7	EACH	WORK ZONE INCREASED PENALTIES SIGN	
		1074										1074		614	12801	1074	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	P.30
	249											249		614	13000	249	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
		141										141		614	13310	141	EACH	BARRIER REFLECTOR, TYPE 1, (ONE WAY)	
		298										298		614	13310	298	EACH	BARRIER REFLECTOR, TYPE 1, (BI-DIRECTIONAL)	
		118										118		614	13312	118	EACH	BARRIER REFLECTOR, TYPE 2, (ONE WAY)	
		259										259		614	13350	259	EACH	OBJECT MARKER, ONE WAY	
		298										298		614	13360	298	EACH	OBJECT MARKER, TWO WAY	
	2											2		614	18000	2	EACH	MAINTAINING TRAFFIC, MISC.: BARRIER MEDIAN INLET RECONSTRUCTION TO GRADE	P.24
	LS											LS		614	18002	LS		MAINTAINING TRAFFIC, MISC.: SITE ACCESS	P.24
		17795										17795		614	18030	17795	FT	MAINTAINING TRAFFIC, MISC.: DOTTED LINE, CLASS I, 12", 807 PAINT	P.26
	192											192		614	18601	192	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	P.29
		7.04										7.04		614	20056	7.04	MILE	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	
		2.15										2.15		614	20110	2.15	MILE	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT	
		21.46										21.46		614	22056	21.46	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT	
		6.54										6.54		614	22110	6.54	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT	
		16636										16636		614	23110	16636	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	
		5447										5447		614	23210	5447	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT	
		9007										9007		614	24102	9007	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	
		4119										4119		614	24202	4119	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 642 PAINT	
		8465										8465		614	24208	8465	FT	WORK ZONE DOTTED LINE, CLASS I, 12", 642 PAINT	
		2882										2882		614	25000	2882	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I	
		393										393		614	26000	393	FT	WORK ZONE STOP LINE, CLASS I	
		504										504		614	27010	504	FT	WORK ZONE CROSSWALK LINE, CLASS I, 12"	
		1752										1752		614	28000	1752	FT	WORK ZONE GORE MARKING, CLASS II	
		28										28		614	30000	28	EACH	WORK ZONE ARROW, CLASS I	
		4										4		614	31640	4	EACH	WORK ZONE WORD ON PAVEMENT, 96", CLASS I	
		60										60		614	98100	60	FT	WORK ZONE PAVEMENT MARKING, MISC.: YIELD LINE	P.26
												LS		615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
		1037										1037		615	20000	1037	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	
	15											15		616	10000	15	MGAL	WATER	
		8462										8462		622	41100	8462	FT	PORTABLE BARRIER, UNANCHORED	
		2567										2567		622	41110	2567	FT	PORTABLE BARRIER, ANCHORED	
	60											60		896	00010	60	SNMT	PORTABLE NON-INTRUSIVE TRAFFIC SENSOR, CLASS I	
	20											20		896	00021	20	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	P.29
																		INCIDENTALS	
												40000		100	51200	40000	EACH	DEPARTMENT'S SHARE OF THE DISPUTE RESOLUTION ADVISER	
												LS		108	10000	LS		CPM PROGRESS SCHEDULE	
												LS		614	11000	LS		MAINTAINING TRAFFIC	
24												24		619	16021	24	MNTH	FIELD OFFICE, TYPE C, AS PER PLAN	P.20
LS												LS		623	10001	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN	P.20
												LS		624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

1	10/13/25	ADD 642 MARKING/ADD MAINTAINING TRAFFIC, MISC./RECALCULATE/RESPACE/ADD COLUMN

DESIGN AGENCY

DESIGNER ALP

REVIEWER PRS 7-28-25

PROJECT ID 119380

SHEET P.118 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/14/2025 TIME: 9:30:11 AM USER: SMorr
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\Roadway\Sheets\119380_GG005.dgn

DRAINAGE SUBSUMMARY

SHEET NO.	REF. NO.	STATION FROM	STATION TO	SIDE	CONDUIT FILE NUMBER	202 GUTTER REMOVED FT	202 PIPE REMOVED, 24" DIAMETER AND UNDER FT	202	202 INLET REMOVED EACH	202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, (12" DIAMETER) FT	601 TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT SY	601 ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC CY	602 CONCRETE MASONRY CY	611 12" CONDUIT, TYPE B, 706.02 FT	611 12" CONDUIT, TYPE C, 706.02 FT	611 15" CONDUIT, TYPE B FT	611 15" CONDUIT, TYPE C FT	611	611 15" CONDUIT, TYPE F, 707.05 TYPE C, 707.21 OR 707.33 FT	611 CATCH BASIN, NO. 3A EACH	611 CATCH BASIN ADJUSTED TO GRADE EACH	611	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYE B1 EACH	611 INLET ADJUSTED TO GRADE EACH	611 INLET ADJUSTED TO GRADE, AS PER PLAN EACH	611	611 MANHOLE, NO. 3, AS PER PLAN A EACH	611 MANHOLE ADJUSTED TO GRADE EACH	836 SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 SY
		IR 77																											
		EXISTING DRAINAGE REMOVED																											
171	R-1	64+13.12	64+52.89	RT			42.00		1																				
173	R-2	79+84.60	80+33.15	LT/RT			47.00		1	66																			
173	R-3	83+08.13	83+12.66	RT		24.51																							
		PROPOSED DRAINAGE																											
171	D-1	65+56.71	65+58.09	LT															52.00	1									
171	D-2	63+85.00	63+35.00	RT															81.00	1									
171	D-3	63+35.00		RT											8.00												1		
172	D-4	73+22.00		LT							33.61																		
172	D-5	76+24.00		LT							33.61																		
172	D-6	73+05.00		RT													17.00		67.00	1									
172	D-7	76+18.00		RT													14.00		59.00	1									
173	D-8	79+84.60	79+77.23	LT/RT	1999260		4.00							4.00		49.00							1						
173	D-9	82+86.51	82+81.96	RT													21.00			1									
173	D-10	82+61.92	82+78.82	RT																									31.11
		EXISTING DRAINAGE ADJUSTED TO GRADE																											
171	AG-1	67+58.96		LT																								1	
171	AG-2	66+14.91		RT																	1								
172	AG-3	74+32.78		LT																	1								
172	AG-4	75+06.59		LT																	1								
173	AG-5	78+40.46		LT																		1							
173	AG-6	80+78.41		LT																					1				
		EROSION CONTROL																											
171	RCP-1	65+58.09		LT								4.48	0.27																
172	RCP-2	73+05.00		RT								4.44	0.27																
172	RCP-3	76+17.63		RT								4.44	0.27																
173	RCP-4	82+81.96		RT								3.76	0.27																
		SUBTOTALS				24.51	93.00		2	66.00	67.22	17.12	1.08	4.00	8.00	49.00	52.00		259.00	5	3		1	1	1		1	1	31.11
		TOTALS CARRIED TO GENERAL SUMMMARY				**25**	**93**		**2**	**66**	**68**	**18**	**1.1**	**4**	**8**	**49**	**52**		**259**	**5**	**3**		**1**	**1**	**1**		**1**	**1**	**32**

1	10/13/25	REVISE QUANTITIES, ADD A TO MANHOLE

DESIGN AGENCY

DESIGNER ALP

REVIEWER PRS 7-28-25

PROJECT ID 119380

SHEET P.123 | TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/14/2025 TIME: 9:36:15 AM USER: SMorr
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\Drainage\Sheets\119380_DS001.dgn

SHEET NO.	REF. NO.	STATION FROM	STATION TO	SIDE	601 TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	605 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, 707.33 OR 707.41	605 6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, 707.33 OR 707.41	605 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, 707.33 OR 707.41	611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS, 707.33 OR 707.41	611 6" CONDUIT, TYPE B, 707.33 OR 707.41	611 CONDUIT, BORED OR JACKED (6", TYPE B)	611 PRECAST REINFORCED CONCRETE OUTLET	BENDS AND BRANCHES FOR INFORMATION ONLY 6" CROSS	6" TEE	6" x 45° BEND	6" x 90° BEND	6" PLUG
					SY	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH
		IR 77 NORTHBOUND															
		RIGHT INSIDE EDGE LINE															
171	RIE-1	63+58.15	63+82.09	RT		24				24				1	2		2
171	RIE-2	64+46.84	63+82.09	RT			65								2		
171	RIE-3	64+73.96	64+46.84	RT		27											1
171	RIE-4	67+59.36	68+93.23	RT			136			24					1	1	2
172	RIE-5	73+32.71	73+00.58	RT		32				24					1	1	2
172	RIE-6	76+04.83	76+26.46	RT		22				24					1	1	2
173	RIE-7	80+20.94	79+75.59	RT			45			24					1	1	2
173	RIE-8	82+68.07	83+05.42	RT		38				24					1	1	2
		RIGHT OUTSIDE LANE LINE															
171	ROL-1	63+58.15	63+83.48	RT		26				12			1		2		1
171	ROL-2	64+39.24	63+83.48	RT			55								2		1
172	ROL-3	73+32.71	73+00.58	RT		32				12				1	1		1
172	ROL-4	76+05.85	76+26.46	RT		21				16				1	1		1
		RIGHT DOTTED LINE															
171	RD-1	67+23.78	68+93.23	RT			172			14				1	1		1
		RIGHT OUTSIDE EDGE LINE															
171	ROE-1	63+58.15	63+84.42	RT		27				15			1		2		1
171	ROE-2	64+14.75	63+84.42	RT			31								2		1
171	ROE-3	67+00.71	68+93.23	RT			195			10				1	1		1
172	ROE-4	73+32.71	73+00.58	RT		32				12				1	1		1
172	ROE-5	76+06.46	76+26.40	RT		20				12				1	1		1
173	ROE-6	80+27.32	79+75.59	RT			51			13				1	1		1
173	ROE-7	82+79.16	82+99.19	RT		20				10				1	1		1
		RIGHT SHOULDER															
171	RS-1	61+58.43	63+84.89	RT				218	10								1
171	RS-2	63+99.78	63+84.89	RT				6	10								1
171	RS-3	66+87.95	68+93.23	RT	1.78		207		22			1		1	1		1
172	RS-4	73+32.71	73+05.00	RT				18	10								1
172	RS-5	76+06.92	76+17.91	RT					10		1						1
172	RS-6	76+26.45	76+17.91	RT					8					1	1		
173	RS-7	80+29.96	79+77.83	RT	1.78		46					1	1	1			1
173	RS-8	82+96.60	82+86.65	RT					10					1	1		
		TOTALS THIS SHEET			3.56	321	1003	242	80	270		2	2	11	29	7	31
		TOTALS FROM SHEET 124			12.46	650	337	385	218	124	154	7	3	12	32	5	28
		SUBTOTALS			16.02	971	1340	627	298	394	154	9	5	23	61	12	59
		TOTALS CARRIED TO GENERAL SUMMMARY			**17**	**971**	**1340**	**627**	**298**	**394**	**154**	**9**					

1	10/13/25	REVISE QUANTITIES, TOTALS

UNDERDRAIN SUBSUMMARY

DESIGN AGENCY

DESIGNER ALP

REVIEWER PRS 7-28-25

PROJECT ID 119380

SHEET P.125 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/14/2025 TIME: 10:12:28 AM USER: SMorr
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\Drainage\Sheets\119380_DS101.dgn

LINE	DESCRIPTION					CALCULATION									QUANTITY
	ITEM 209 - LINEAR GRADING, AS PER PLAN														
	RAMP E-17														
128	*STA*	*2+00.00*	*TO STA*	*5+00.00*	*LT*									=	*316.19 FT*
129	*STA*	*2+75.00*	*TO STA*	*6+00.00*	*RT*									=	*320.44 FT*
130	*STA*	*5+75.00*	*TO STA*	*6+21.99*	*LT*									=	*58.78 FT*
131	*STA*	*7+00.00*	*TO STA*	*7+81.41*	*RT*									=	*70.94 FT*
	RAMP E-9														
132	*STA*	*0+00.00*	*TO STA*	*1+17.86*	*LT*									=	*116.98 FT*
133	*SUM LINES*		*128*	*TO*	*132*	*=*	*883.33*	*FT /*	*100*	*FT / STA*				=	*8.83 STA*
													TOTAL CARRIED TO GENERAL SUMMARY	=	***9 STA***
	ITEM 608 - 4" CONCRETE WALK														
	22ND STREET														
134	*STA*	*1+10.00*	*TO STA*	*2+45.00*		*LT =*	*135.00*	*FT X (*	*6.72*	*FT +*	*7.27*	*FT) /*	*2*	=	*944.33 SF*
135	*STA*	*1+10.00*	*TO STA*	*2+45.00*		*RT =*	*135.00*	*FT X (*	*7.2*	*FT +*	*6.88*	*FT) /*	*2*	=	*950.4 SF*
136	*SUM LINES*		*134*	*AND*	*135*									=	*1894.73 SF*
													TOTAL CARRIED TO GENERAL SUMMARY	=	***1895 SF***
	ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C1														
	IR 77 MEDIAN BARRIER														
137	*STA*	*63+69.32*	*TO STA*	*64+59.32*										=	*90.00 FT*
138	*STA*	*64+74.32*	*TO STA*	*64+97.41*										=	*23.09 FT*
139	*STA*	*67+61.35*	*TO STA*	*68+78.81*										=	*117.46 FT*
140	*STA*	*73+15.00*	*TO STA*	*73+38.71*										=	*23.71 FT*
141	*STA*	*76+13.47*	*TO STA*	*76+46.60*										=	*33.13 FT*
142	*STA*	*80+09.91*	*TO STA*	*80+24.91*										=	*15.00 FT*
143	*SUM LINES*		*137*	*TO*	*142*									=	*302.39 FT*
													TOTAL CARRIED TO GENERAL SUMMARY	=	***303 FT***
	ITEM 622 - BARRIER TRANSITION														
	IR 77 MEDIAN BARRIER														
144	*STA*	*63+34.32*	*TO STA*	*63+54.32*										=	*1 EACH*
145	*STA*	*68+93.81*	*TO STA*	*69+13.81*										=	*1 EACH*
146	*STA*	*72+80.00*	*TO STA*	*73+00.00*										=	*1 EACH*
147	*STA*	*79+39.91*	*TO STA*	*79+59.91*										=	*1 EACH*
148	*SUM LINES*		*144*	*TO*	*147*									=	*4 EACH*
													TOTAL CARRIED TO GENERAL SUMMARY	=	***4 EACH***
	ITEM 622 - BARRIER TRANSITION, AS PER PLAN														
	IR 77 MEDIAN BARRIER														
149	*STA*	*82+67.51*	*TO STA*	*82+85.97*										=	*1 EACH*
													TOTAL CARRIED TO GENERAL SUMMARY	=	***1 EACH***
	ITEM 622 - CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1														
	IR 77 MEDIAN BARRIER														
150	*STA*	*63+54.32*	*TO STA*	*63+69.32*										=	*1 EACH*
151	*STA*	*64+59.32*	*TO STA*	*64+74.32*										=	*1 EACH*
152	*STA*	*68+78.81*	*TO STA*	*68+93.81*										=	*1 EACH*
153	*STA*	*73+00.00*	*TO STA*	*73+15.00*										=	*1 EACH*
154	*STA*	*79+59.91*	*TO STA*	*79+74.91*										=	*1 EACH*
155	*STA*	*79+94.91*	*TO STA*	*80+09.91*										=	*1 EACH*
156	*SUM LINES*		*150*	*TO*	*155*									=	*6 EACH*
													TOTAL CARRIED TO GENERAL SUMMARY	=	***6 EACH***
	ITEM 622 - CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1, AS PER PLAN														
	IR 77 MEDIAN BARRIER														
157	*STA*	*75+98.47*	*TO STA*	*76+13.47*										=	*1 EACH*
158	*STA*	*82+51.81*	*TO STA*	*82+67.51*										=	*1 EACH*
159	*SUM LINES*		*157*	*AND*	*158*									=	*2 EACH*
													TOTAL CARRIED TO GENERAL SUMMARY	=	***2 EACH***

1	10/13/25	CHANGE BARRIER TYPE

CALCULATIONS

DESIGN AGENCY

DESIGNER ALP

REVIEWER PRS 7-28-25

PROJECT ID 119380

SHEET P.129 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/17/2025 TIME: 9:07:45 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@manniksmithgroup.com WORKSPACE: OHDOTCEv02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
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GUARDRAIL LEGEND

- (T) ANCHOR ASSEMBLY, MGS, TYPE T (12.5')
- (BA) CONCRETE BARRIER END ANCHORAGE, REINFORCED, TYPE C1 (15')
- (BT) 20' BARRIER TRANSITION (NJ SHAPE TO SINGLE SLOPE)
- (B1) MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1 (26.90')
- (B2) MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2
- (GT) GUARDRAIL OFFSET TRANSITION AS PER MGS-6.1 (75' TYP.)
- (CBE) CONCRETE BARRIER END SECTION TYPE D (14')
- (CB) CONCRETE BARRIER, TYPE D
- M+XX.XX PROP. MEDIAN BARRIER WIDTH TRANSITION STATIONS

PAVEMENT DIMENSION TABLE	
A	36'-0" (PAVEMENT)
B	8'-0" (INSIDE SHOULDER)
C	8'-0" (INSIDE SHOULDER)
D	36'-0" (PAVEMENT)
E	11'-6" (OUTSIDE SHOULDER)
F	37'-11" (PAVEMENT) (36' NORM.)
G	8'-0" (INSIDE SHOULDER)
H	8'-0" (INSIDE SHOULDER)
I	36'-0" (PAVEMENT)
J	10'-0" (OUTSIDE SHOULDER)

LEGEND

- PLANING AND RESURFACING
- CONCRETE SLOPE PROTECTION
- SLOPE EROSION PROTECTION
- ROCK CHANNEL PROTECTION, TYPE C (1'-6" THK.)

NOTE:
FOR PROPOSED CURB LIMITS, SEE SHEET 161 .

DRAINAGE LEGEND

- (DD1) PROP. 15" TYPE F, 707.05 TYPE C, 707.21 OR 707.33

CROSS REFERENCES	
7-16	TYPICAL SECTIONS
141	PROFILE
145-160	CROSS SECTIONS
161	PLAN - WOODLAND AVE.
168-170	PAVEMENT DETAILS
171	DRAINAGE PLAN - WOODLAND AVE.
186-188	BARRIER DETAILS

HORIZONTAL SCALE IN FEET
0 25 50 100

B.M. #1: STA. 65+75.59, 129.15' RT.
CHISELED X IN BOLT ON LIGHT POLE BASE ELEV. = 676.57

B.M. #2: STA. 65+77.28, 59.66' LT.
⅝"x30" REBAR WITH REL TRAV. CAP SET ELEV. = 692.98

BEGIN PROJECT
STA. 63+57.57
S.L.M. = 15.37

E 230 (831)

BRIDGE NO. CUY-77-15.46
IR 77 OVER WOODLAND AVE.

STA. 66+55.18 ℄ CONST. IR 77 =
STA. 5+05.26 ℄ CONST. US 422 WB (WOODLAND AVE.)

℄ R/W ORANGE AVE.

℄ R/W WOODLAND AVE.

℄ CONST. US 422 WB (WOODLAND AVE.)

℄ CONST. RAMP F-4

℄ EXIST. RAMP F-4

℄ CONST. IR 77

BEGIN MEDIAN BARRIER

MATCH LINE STA. 60+00.00

MATCH LINE STA. 72+50.00

STA. 3+76.00 ℄ CONST. RAMP F-3 BEGIN PLANING AND RESURFACING

STA. 63+57.57 END PLANING AND RESURFACING BEGIN FULL DEPTH PAVEMENT

STA. 2+71.12 ℄ CONST. RAMP F-3 CONNECT PROP. GUARDRAIL TO EXIST.

STA. 6+29.91 ℄ EXIST. RAMP F-4 CONNECT PROP. GUARDRAIL TO EXIST.

STA. 6+31.78 RAMP F-4 BEGIN FULL DEPTH REPLACEMENT

STA. 7+11.24 ℄ EXIST. RAMP F-4 = STA. 107+11.24, ℄ CONST. RAMP F-4

STA. 62+50.00 BEGIN PLANING AND RESURFACING (PAVEMENT TRANSITION IN ACCORDANCE WITH SCD BP-3.1)

STA. 63+79.10 ℄ CONST. IR 77 = STA. 109+71.52, 55.42' RT. ℄ CONST. RAMP F-4

STA. 64+97.41 BEGIN APPROACH SLAB

STA. 67+61.35 END APPROACH SLAB

STA. 68+93.81 END FULL DEPTH PAVEMENT BEGIN PLANING AND RESURFACING

STA. 69+97.61 END PAVEMENT TAPER

+13.81 END MEDIAN BARRIER

ADJUST MH TO GRADE

ADJUST CB TO GRADE

(TO REMAIN)

EX. STORM (TO REMAIN)

EX. 15" STORM (TO REMAIN)

EX. 12" STORM (TO REMAIN)

EX. 12" RCP (TO REMAIN)

EX. 30" RCP (TO REMAIN)

EX. 6" CPP

EX. 12" RCP

EX. 12" UNK

12" RCP

12" UNK

12" VCP

N 75° 10' 09" W

N19°09'47"W

N75°09'47"W

S70°50'13"W

S19°50'13"W

M+69.32
M+59.32
M+97.12

+34.32
+54.32
0+43.48
0+45.38
+41.13
+68.03
+77.91
+79.81
+21.41
+48.31
109+43.20
108+02.01
+75.18
+77.08
+24.26
+51.16
+92.76
+94.66

B.M. #1
B.M. #2
B.M. #3
B.M. #4

BR-1
BR-4
GR-1
GR-2
GR-3
GR-7
GR-8
GR-9
GR-10
CB-1
CB-2
DD1

Ex R/W
Ex LA
OH-T
SAN MH
MH
CB

CURVE R-4 ℄ CONST. RAMP F-3 CURVE DATA
P.I. Sta = 1+83.90
△ = 11° 00' 00" (RT)
Dc = 03° 00' 00"
R = 1,909.86'
T = 183.90'
L = 366.67'
E = 8.83'
eMAX = 0.016

CURVE R-6 ℄ EXIST. RAMP F-4 CURVE DATA
P.I. Sta = 9+24.25
△ = 07° 42' 07" (RT)
Dc = 03° 00' 00"
R = 1,909.86'
T = 128.56'
L = 256.73'
E = 4.32'
eMAX = 0.016

CURVE R-6N ℄ CONST. RAMP F-4 CURVE DATA
P.I. Sta = 108+22.92
△ = 06° 41' 36" (RT)
Dc = 03° 00' 00"
R = 1,909.86'
T = 111.68'
L = 223.12'
E = 3.26'
eMAX = 0.045

1	10/13/25	CHANGE BARRIER TYPE

B.M. #3: STA. 67+72.01, 57.08' RT.
CHISELED X IN BOLT ON SIGN BASE ELEV. = 694.45

B.M. #4: STA. 68+53.66, 58.94' LT.
⅝"x30" REBAR WITH REL TRAV. CAP SET ELEV. = 693.60

IR 77 PLAN
STA. 60+00.00 TO STA. 72+50.00

DESIGN AGENCY

DESIGNER PRS
REVIEWER ALP 7-28-25
PROJECT ID 119380
SHEET P.140 TOTAL 365

CUY-77-15.46

MODEL: CLX_IR-77 - General Plan-4 PAPERSIZE: 34x22 (in.) DATE: 10/17/2025 TIME: 9:10:33 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@manniksmithgroup.com WORKSPACE: OHDOTCEs02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\Roadway\Sheets\119380_GP007.dgn

PAVEMENT DIMENSION TABLE	
A	11'-6" (OUTSIDE SHOULDER)
B	39'-9" (PAVEMENT)
C	8'-0" (INSIDE SHOULDER)
D	8'-0" (INSIDE SHOULDER)
E	36'-0" (PAVEMENT)
F	10'-0" (OUTSIDE SHOULDER)
G	10'-0" (OUTSIDE SHOULDER)
H	24'-0" (PAVEMENT)
I	8'-0" (INSIDE SHOULDER)
J	8'-0" (INSIDE SHOULDER)
K	36'-0" (PAVEMENT)
L	20'-9" (OUTSIDE SHOULDER)
M	24'-0" (PAVEMENT)
N	24'-0" (PAVEMENT)

B.M. #5: STA. 73+34.16, 58.83' LT.
⅝"x30" REBAR WITH
REL TRAV. CAP SET ELEV. = 696.46

B.M. #6: STA. 74+37.16, 121.59' LT.
CHISELED X IN BOLT ON
POWER POLE BASE ELEV. = 678.34

B.M. #7: STA. 76+03.95, 59.33' LT.
⅝"x30" REBAR WITH
REL TRAV. CAP SET ELEV. = 698.12

B.M. #8: STA. 76+83.72, 64.78' RT.
CHISELED X IN BOLT
ON SIGN BASE ELEV. = 695.07

CROSS REFERENCES	
7-16	TYPICAL SECTIONS
143	PROFILE
145-160	CROSS SECTIONS
162	PLAN - E. 22nd ST.
163	PLAN - E. 14th ST.
172	DRAINAGE PLAN - E. 22nd ST.
173	DRAINAGE PLAN - E. 14th ST.
179	E. 14th STREET - TEMPORARY CONNECTION
186-188	BARRIER DETAILS

DRAINAGE LEGEND

- DD1 PROP. 15" TYPE F, 707.05 TYPE C, 707.21 OR 707.33
- DD2 PROP. 15" TYPE C

GUARDRAIL LEGEND

- T ANCHOR ASSEMBLY, MGS, TYPE T (12.5')
- BA ANCHOR ASSEMBLY, CONCRETE BARRIER END ANCHORAGE, REINFORCED, TYPE C1 (15')
- BA1 ANCHOR ASSEMBLY, CONCRETE BARRIER END ANCHORAGE, REINFORCED, TYPE C1, AS PER PLAN (15')
- BT 20' BARRIER TRANSITION (NJ SHAPE TO SINGLE SLOPE)
- BT1 BARRIER TRANSITION, AS PER PLAN
- B1 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1 (26.90')
- B2 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2
- GT GUARDRAIL OFFSET TRANSITION AS PER MGS-6.1 (75' TYP.)
- M+XX.XX PROP. MEDIAN BARRIER WIDTH TRANSITION STATIONS

STA. 74+68.59 ℄ CONST. IR 77 =
STA. 1+77.79 ℄ CONST. E. 22nd ST.

STA. 75+98.47 END APPROACH SLAB

BRIDGE NO. CUY-77-15.62
IR 77 OVER E. 22nd ST.

MEDIAN BARRIER AND OVERHEAD SIGN CONSTRUCTED WITH CCG3A

℄ R/W ORANGE AVE.

STA. 79+75.00 END PLANING AND RESURFACING BEGIN FULL DEPTH PAVEMENT

STA. 81+34.69 ℄ CONST. IR 77 =
STA. 5+95.20 ℄ CONST. E. 14th ST.

BRIDGE NO. CUY-77-15.75
IR 77 OVER E. 14th ST.

STA. 73+00.00 END PLANING AND RESURFACING BEGIN FULL DEPTH PAVEMENT

STA. 73+38.71 BEGIN APPROACH SLAB

STA. 75+17.38, ℄ CONST. IR 77 =
STA. 0+00.00, 44.00' RT. ℄ CONST. RAMP E-14

STA. 76+27.00 END FULL DEPTH PAVEMENT BEGIN PLANING AND RESURFACING LT. & RT.

STA. 1+30.79 ℄ CONST. RAMP E-14 CONNECT PROP. GUARDRAIL TO EXISTING

PCC STA. 2+97.97
STA. 3+13+.10 ℄ CONST. RAMP E-14 END PLANING AND RESURFACING

STA. 79+34.49 CONNECT PROP. GUARDRAIL TO EXISTING

STA. 80+24.91 BEGIN APPROACH SLAB

STA. 80+49.91 END APPROACH SLAB

STA. 81+00.00 ℄ CONST. IR 77 =
STA. 0+00.00, 32.00' RT. ℄ CONST. RAMP E-17

STA. 82+26.81 BEGIN APPROACH SLAB

STA. 82+51.81 END APPROACH SLAB

STA. 82+70.38 END FULL DEPTH PAVEMENT LT.

STA. 82+96.33 ℄ CONST. IR 77 =

STA. 17+41.98, 32.00' RT. ℄ CONST. RAMP E-17

STA. 17+04.87 ℄ CONST. RAMP E-10 CONNECT PROP. GUARDRAIL TO EXISTING

STA. 17+59.67 BEGIN PLANING AND RESURFACING

END PROJECT
STA. 83+00.05
℄ CONST. IR 77
STA. 1+96.29
℄ CONST. RAMP E-17
S.L.M. = 15.81
℄ CONST. IR 77

E230 (831)

STA. 83+00.05 ℄ CONST. IR 77 = 54.75' RT. STA. 1+96.29 ℄ CONST. RAMP E-17 END FULL DEPTH PAVEMENT RT. BEGIN PLANING AND RESURFACING

MATCH LINE STA. 72+50.00

MATCH LINE STA 4+00.00

CURVE 77-5
℄ CONST. IR 77
CURVE DATA
P.I. Sta = 79+31.37
△ = 23° 58' 25" (RT)
Dc = 03° 00' 00"
R = 1,909.86'
T = 405.49'
L = 799.12'
E = 42.57'

CURVE R-7
℄ CONST. RAMP E-14
CURVE DATA
P.I. Sta = 1+50.21
△ = 17° 52' 41" (RT)
Dc = 06° 00' 00"
R = 954.93'
T = 150.21'
L = 297.97'
E = 11.74'
eMAX = 0.050

CURVE R-8
℄ CONST. RAMP E-14
CURVE DATA
P.I. Sta = 4+76.16
△ = 63° 45' 48" (RT)
Dc = 20° 00' 00"
R = 286.48'
T = 178.19'
L = 318.82'
E = 50.90'
eMAX = 0.080

CURVE R-17
℄ CONST. RAMP E-10
CURVE DATA
P.I. Sta = 13+88.62
△ = 46° 59' 39" (LT)
Dc = 06° 15' 00"
R = 916.73'
T = 398.55'
L = 751.90'
E = 82.89'
eMAX = 0.060

CURVE R-9
℄ CONST. RAMP E-17
CURVE DATA
P.I. Sta = 3+43.13
△ = 60° 33' 40" (RT)
Dc = 09° 45' 00"
R = 587.65'
T = 343.13'
L = 621.14'
E = 92.84'
eMAX = 0.060

B.M. #9: STA. 79+77.12, 50.43' RT.
CHISELED X IN BOLT
ON SIGN BASE ELEV. = 693.35

B.M. #10: STA. 80+07.91, 62.20' LT.
⅝"x30" REBAR WITH
REL TRAV. CAP SET ELEV. = 697.27

B.M. #11: STA. 81+72.96, 119.76' RT.
CHISELED X IN BOLT
ON SIGN BASE ELEV. = 674.65

LEGEND

- CONSTRUCTED WITH CCG3A
- PLANING AND RESURFACING
- CONCRETE SLOPE PROTECTION
- SLOPE EROSION PROTECTION
- ROCK CHANNEL PROTECTION, TYPE C (1'-6" THK.)
- ITEM 601 - TIED CONCRTE BLOCK MAT WITH TYPE 2 UNDERLAYMENT (55' x 5'-6")
- ITEM 836 - SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 (4'-0" WIDE)

NOTE:
1. FOR EXISTING UTILITY DISPOSITION SEE DRAINAGE PLANS.
2. TRANSITION MEDIAN BARRIER WIDTH FROM 42" AT APPROACH SLAB TO 28" IN 15'.
3. FOR PROPOSED CURB LIMITS, SEE SHEETS 162-163 .

HORIZONTAL SCALE IN FEET
0 25 50 100

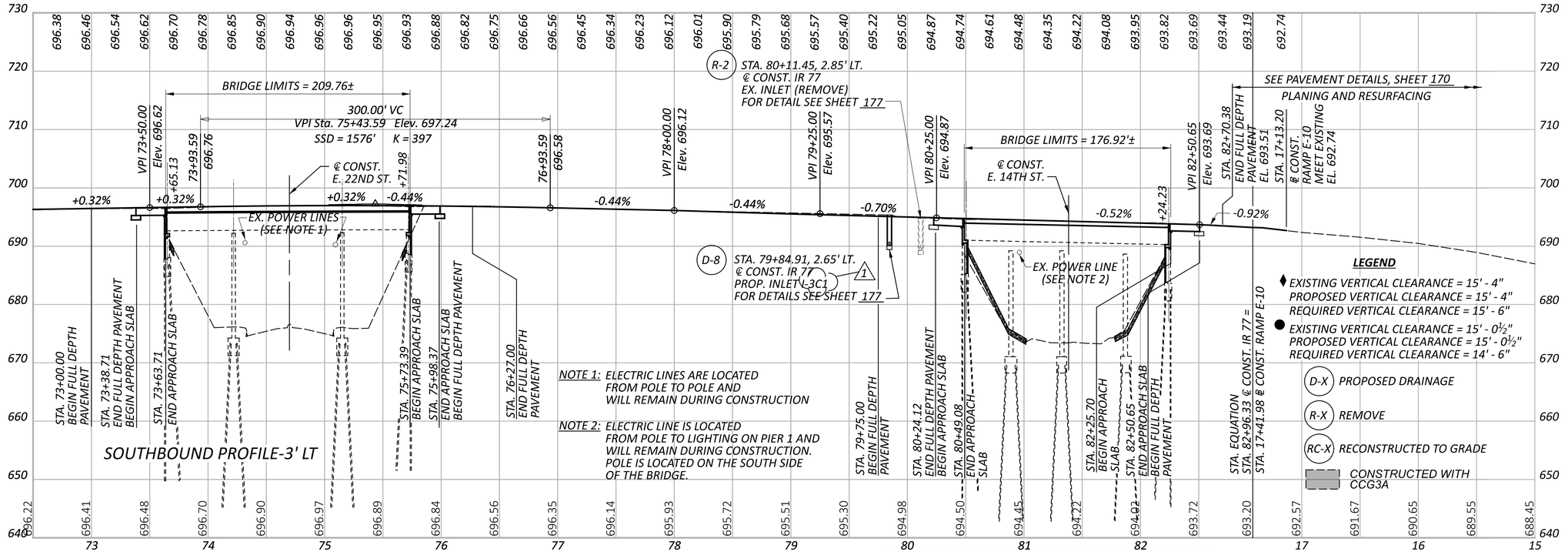
IR 77 PLAN
STA. 72+50.00 TO STA. 81+00.00/STA. 0+00.00 TO STA. 4+00.00

CUY-77-15.46

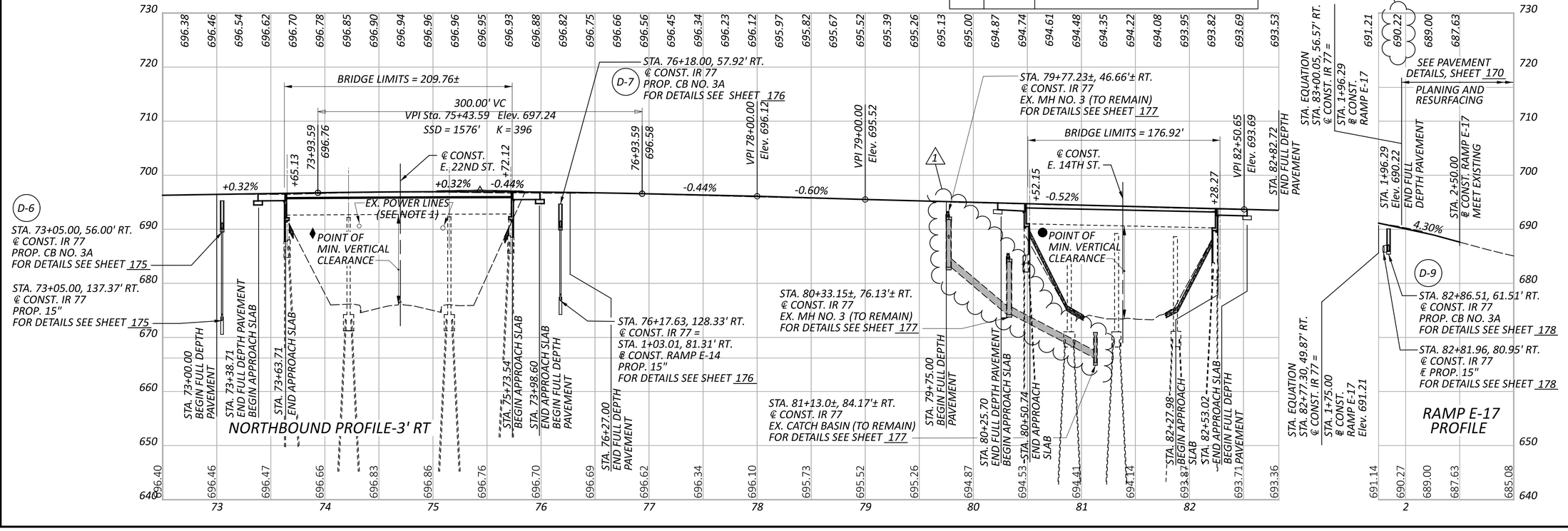
	DESIGN AGENCY
	DESIGNER PRS
	REVIEWER ALP 7-28-25
	PROJECT ID 119380
	SHEET P.142 TOTAL 365

	DATE	DESCRIPTION
1	10/13/25	ADD REFERENCE TO SHEET 179/REVISE UD/ CHANGE BARRIER TYPE

MODEL: CLX_IR77 - General Plan-5 PAPERSIZE: 34x22 (in.) DATE: 10/17/2025 TIME: 9:14:46 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@mannikSmithgroup.com WORKSPACE: OHDOTCE\v02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
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1	10/13/25	REVISE ELEVATION/REVISE STORM PROFILE/ CHANGE BARRIER TYPE



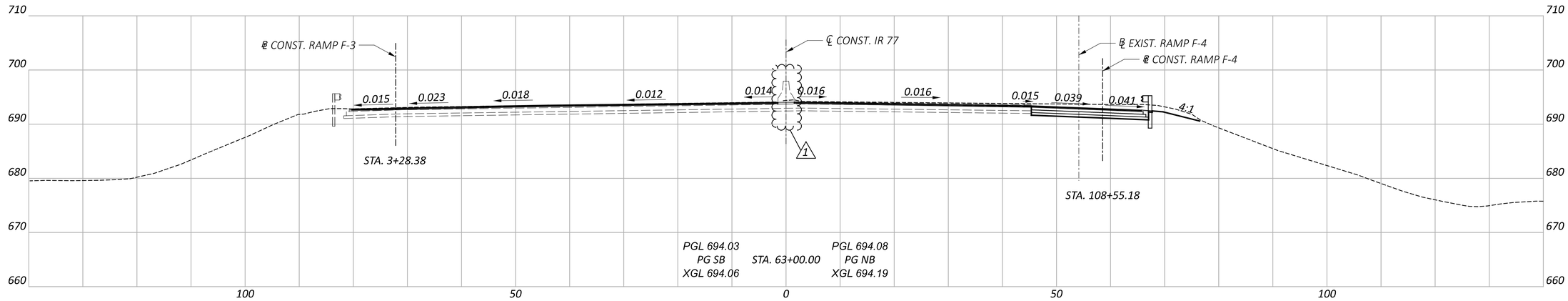
IR 77 PROFILE
STA. 72+50.00 TO STA. 82+70.38

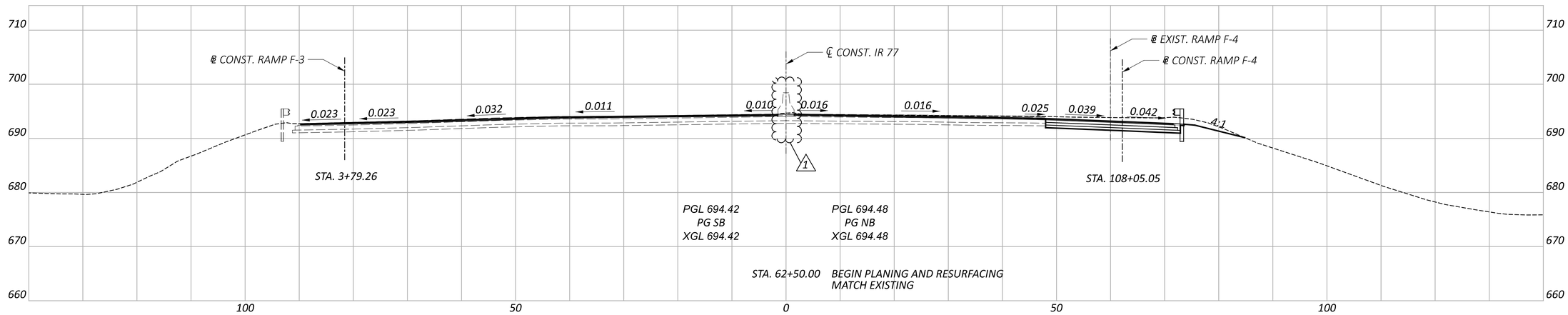
DESIGN AGENCY

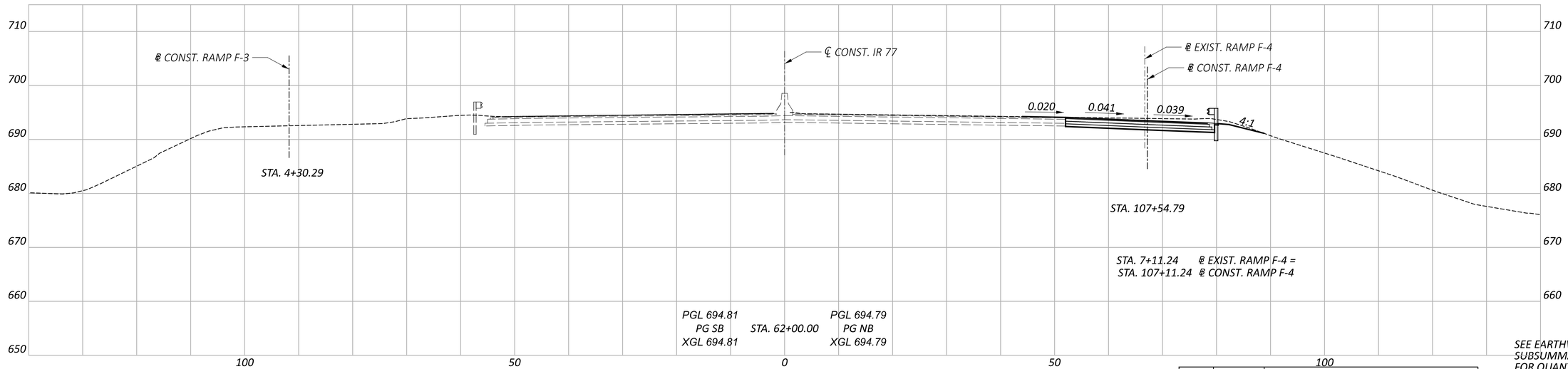
DESIGNER PRS
REVIEWER ALP 7-28-25
PROJECT ID 119380
SHEET P.143 TOTAL 365

CUY-77-15.46

MODEL: CLX_IR-81 - Profile 3 PAPERSIZE: 34x22 (in.) DATE: 10/17/2025 TIME: 9:17:43 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@mannliksmithgroup.com WORKSPACE: OHDOTCEv02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\Roadway\Sheets\119380_GF008.dgn







SEE EARTHWORK SUBSUMMARY FOR QUANTITIES

1	10/13/25	END RESURFACING AT BARRIER

Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS
STA. 62+00.00 TO STA. 63+00.00

DESIGN AGENCY

DESIGNER PRS

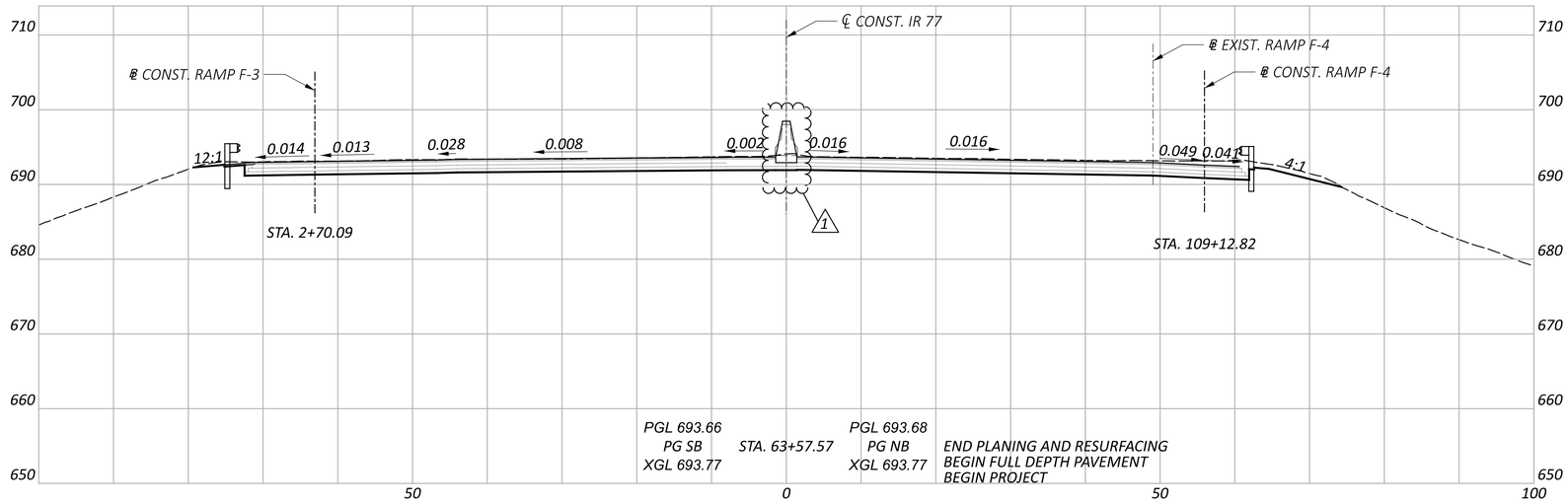
REVIEWER ALP 7-28-25

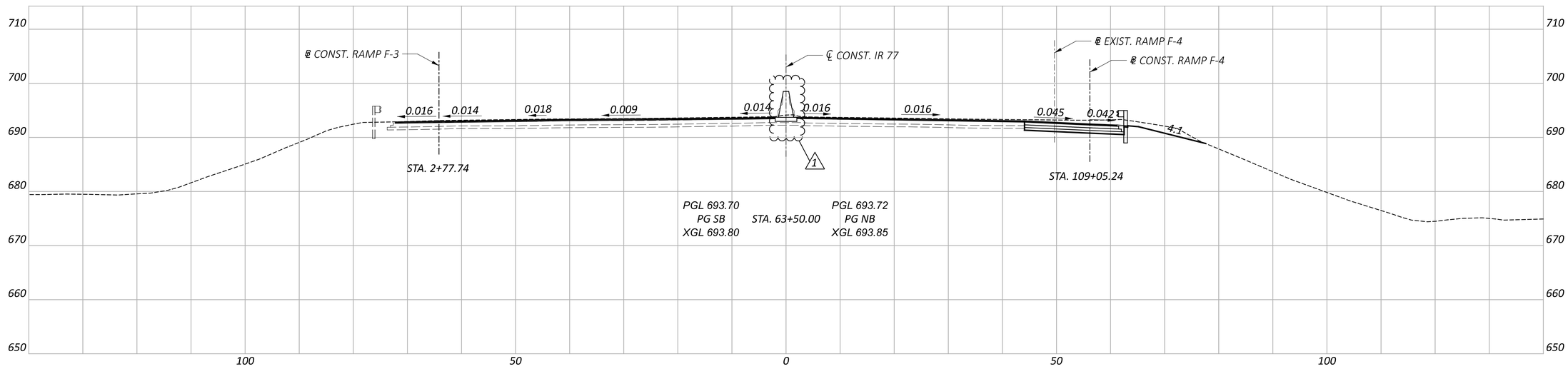
PROJECT ID 119380

SHEET P.146 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/21/2025 TIME: 8:07:35 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@mannikksmithgroup.com WORKSPACE: OHDOTCEv02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\Roadway\Sheets\119380_XS01.dgn





1	10/13/25	REVISE MEDIAN BARRIER/SHOULDER CROSS SLOPES

SEE EARTHWORK SUBSUMMARY FOR QUANTITIES

Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS
STA. 63+50.00 TO STA. 63+57.57

DESIGN AGENCY

DESIGNER PRS

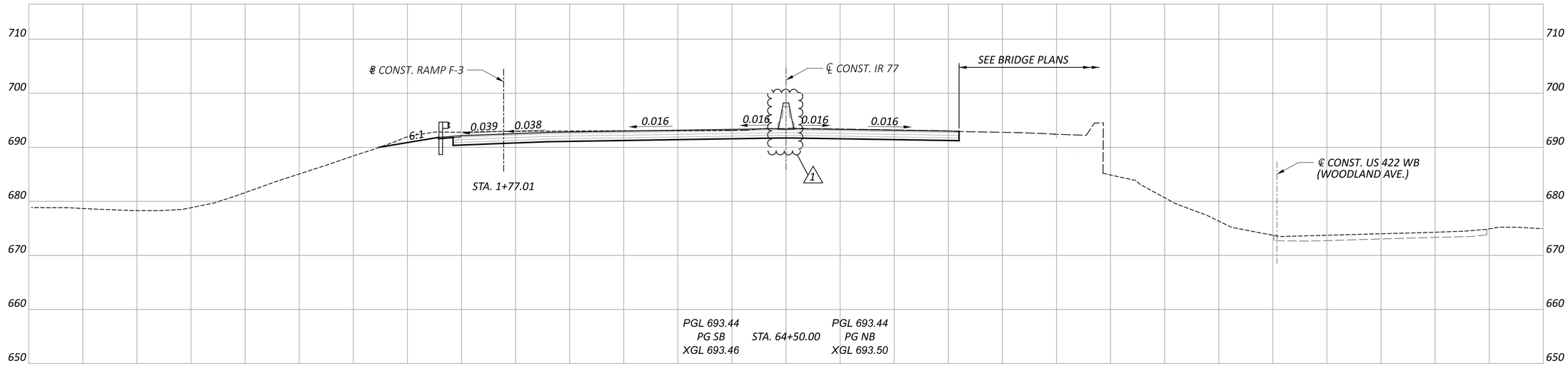
REVIEWER ALP 7-28-25

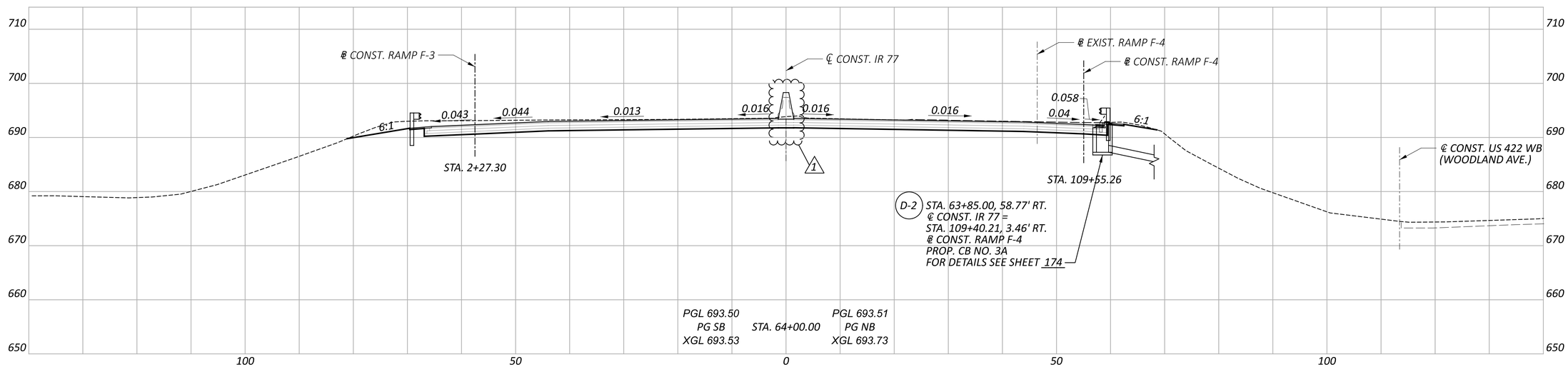
PROJECT ID 119380

SHEET P.147 TOTAL 365

CUY-77-15.46

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F:\2023\22111 CUY-77-15.46\119380\400-Engineering\Roadway\Sheets\119380_XS02.dgn





1	10/13/25	REVISE MEDIAN BARRIER/SHOULDER CROSS SLOPES

SEE EARTHWORK SUBSUMMARY FOR QUANTITIES

Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS
STA. 64+00.00 TO STA. 64+50.00

DESIGN AGENCY

DESIGNER PRS

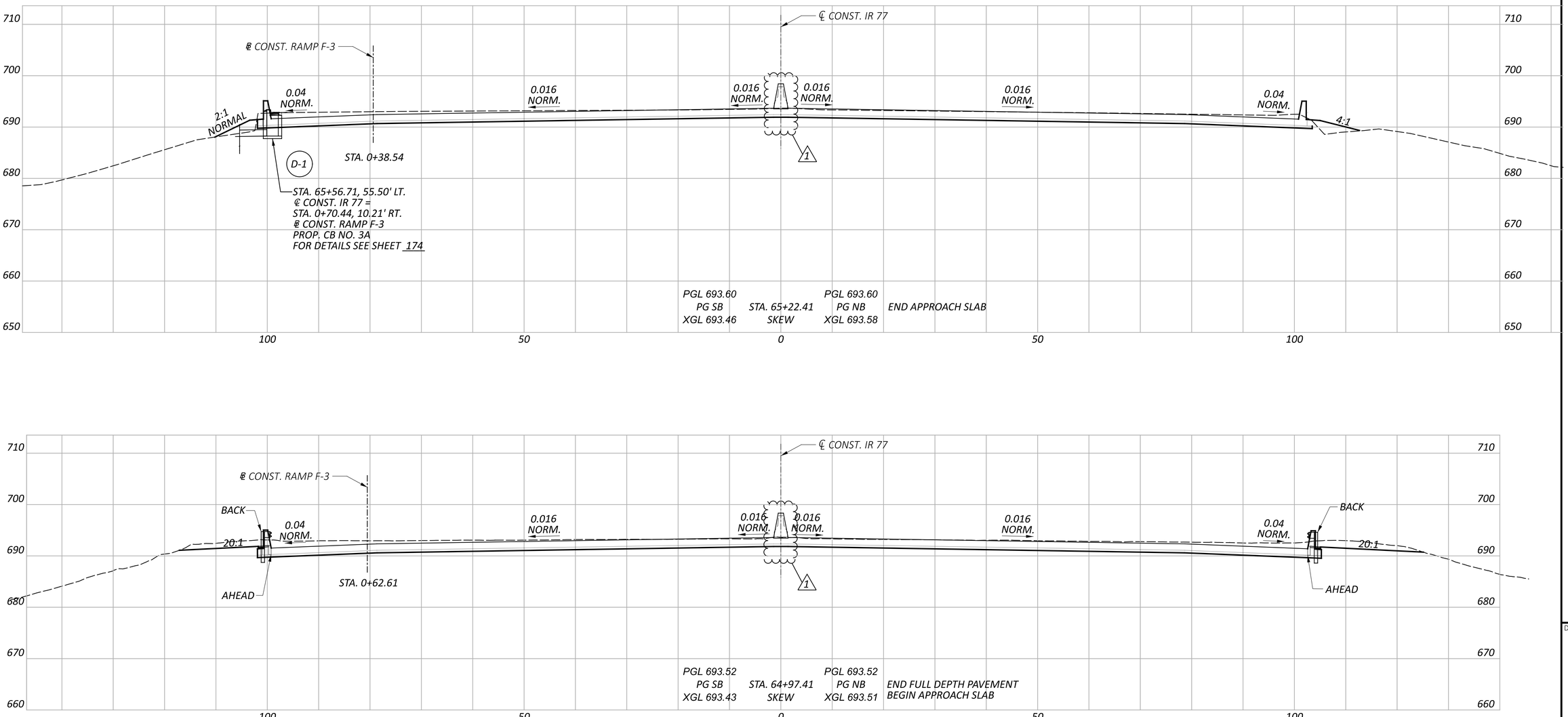
REVIEWER ALP 7-28-25

PROJECT ID 119380

SHEET P.148 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/21/2025 TIME: 1:42:30 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@manniksmithgroup.com WORKSPACE: OHDOTCEv02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\Roadway\Sheets\119380_XS503.dgn



1	10/13/25	REVISE MEDIAN BARRIER/SHOULDER CROSS SLOPES

SEE EARTHWORK SUBSUMMARY FOR QUANTITIES

Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS
STA. 64+97.41 TO STA. 65+22.41

DESIGN AGENCY

DESIGNER PRS

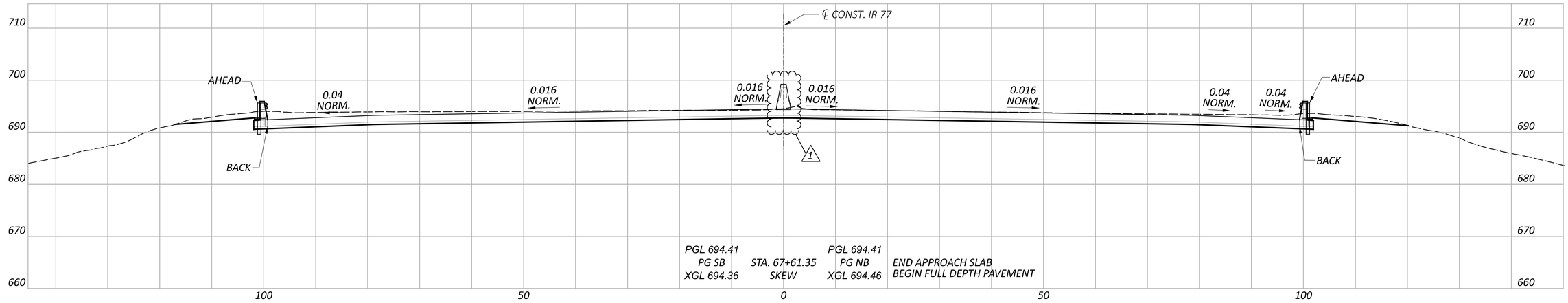
REVIEWER ALP 7-28-25

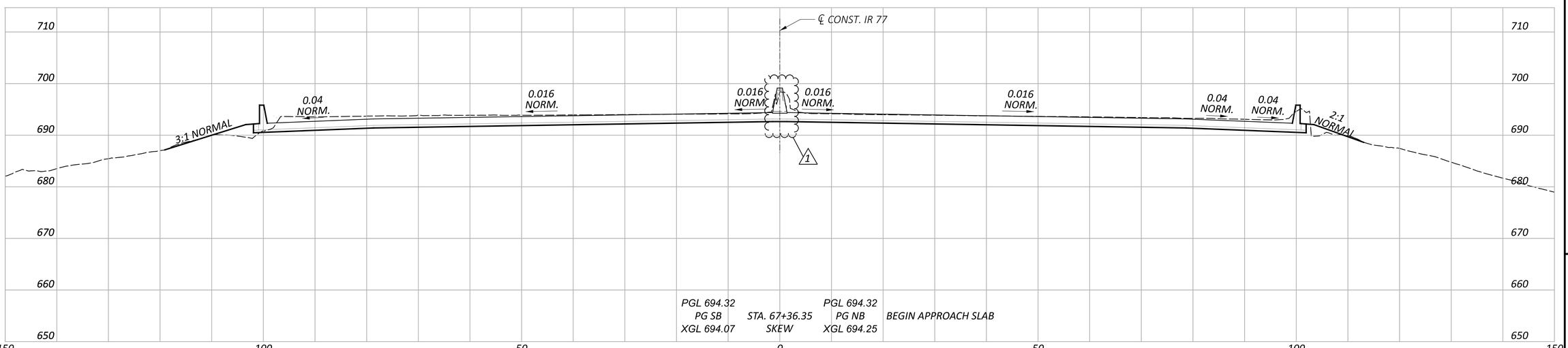
PROJECT ID 119380

SHEET P.149 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/21/2025 TIME: 1:43:44 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@manniksmithgroup.com WORKSPACE: OHDOTCEv02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\Roadway\Sheets\119380_XS504.dgn





1	10/13/25	REVISE MEDIAN BARRIER/SHOULDER CROSS SLOPES

SEE EARTHWORK SUBSUMMARY FOR QUANTITIES

Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS
STA. 67+36.35 TO STA. 67+61.35

DESIGN AGENCY

DESIGNER PRS

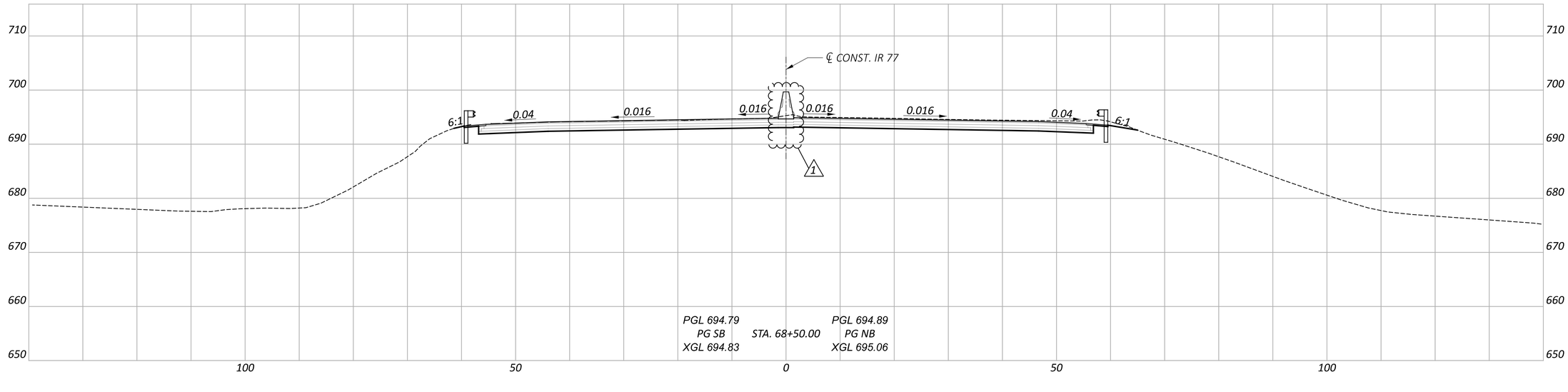
REVIEWER ALP 7-28-25

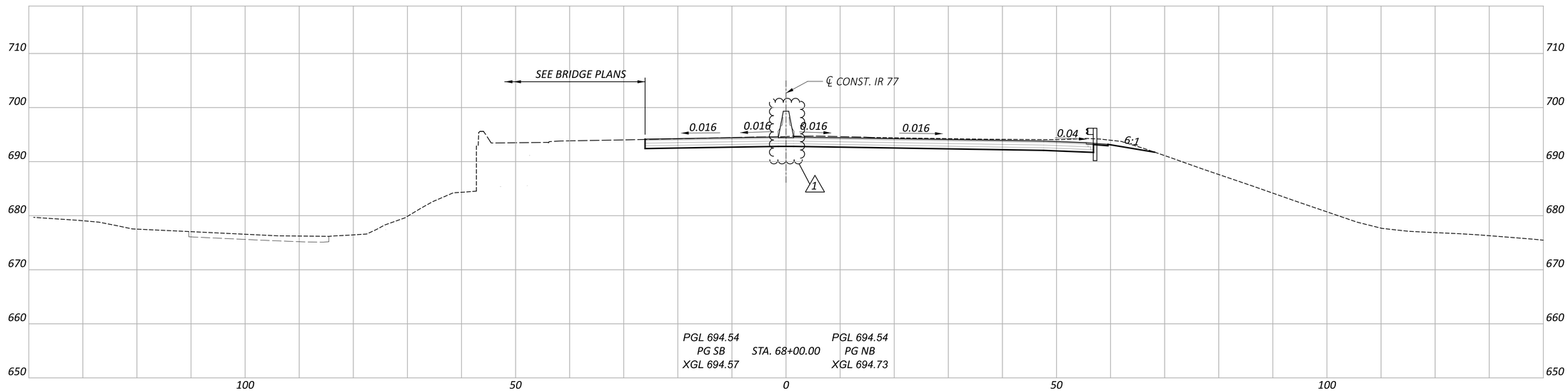
PROJECT ID 119380

SHEET P.150 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/21/2025 TIME: 1:45:37 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@manniksmithgroup.com WORKSPACE: OHDOTCEv02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\Roadway\Sheets\119380_XS505.dgn





1	10/13/25	REVISE MEDIAN BARRIER/SHOULDER CROSS SLOPES

SEE EARTHWORK SUBSUMMARY FOR QUANTITIES

Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS
STA. 68+00.00 TO STA. 68+50.00

DESIGN AGENCY

DESIGNER PRS

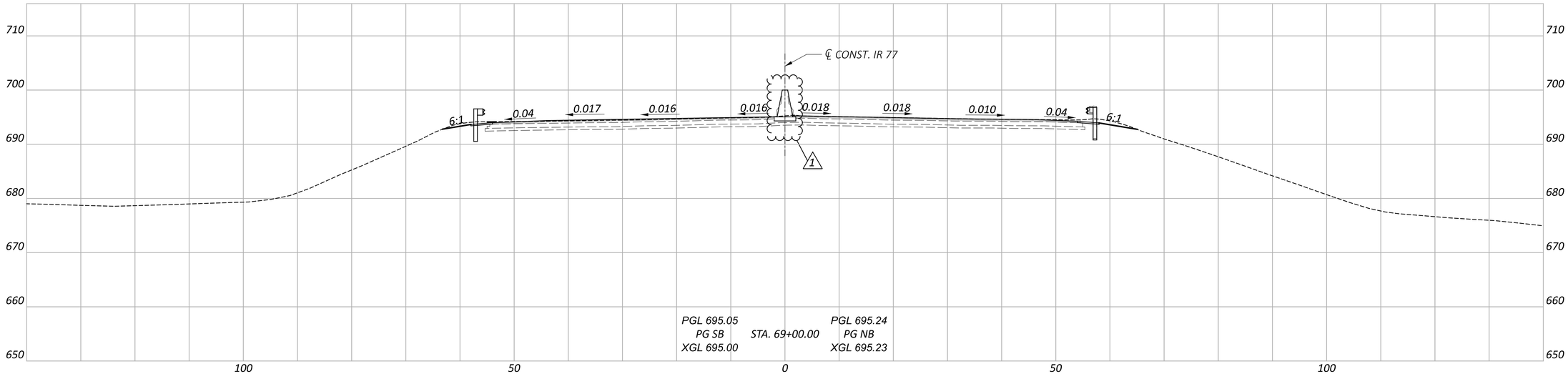
REVIEWER ALP 7-28-25

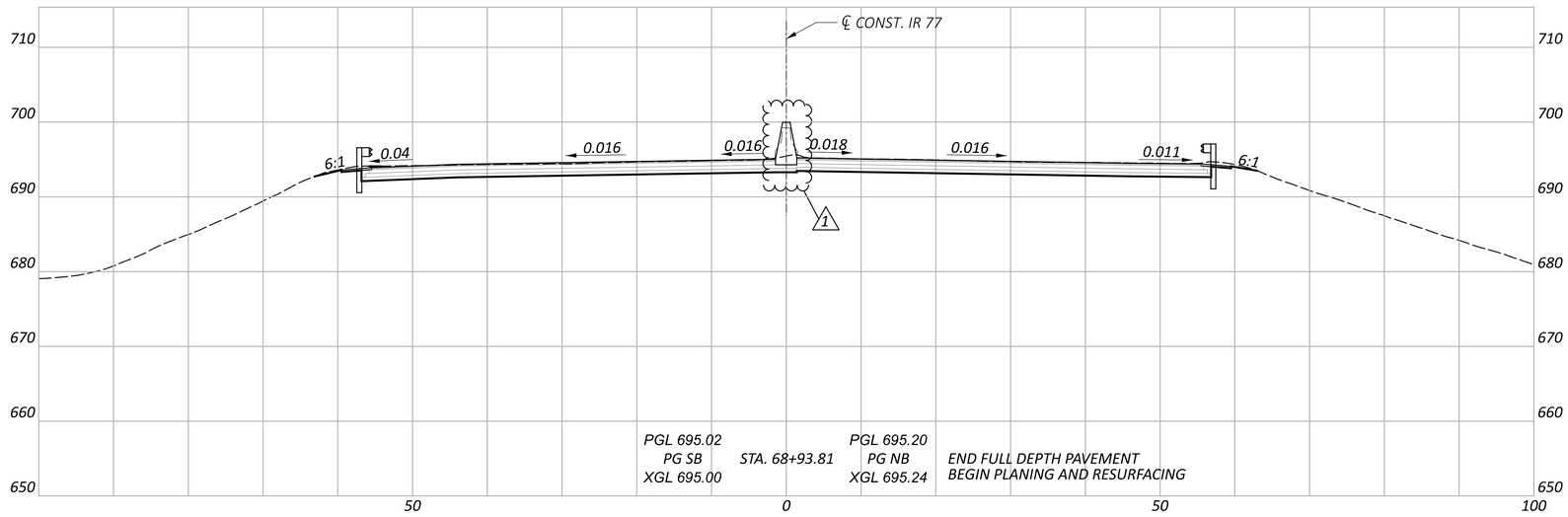
PROJECT ID 119380

SHEET P.151 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/21/2025 TIME: 1:46:54 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@manniksmithgroup.com WORKSPACE: OHDOTCEv02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\Roadway\Sheets\119380_XS506.dgn





1	10/13/25	REVISE MEDIAN BARRIER/SHOULDER CROSS SLOPES

SEE EARTHWORK SUBSUMMARY FOR QUANTITIES

Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS
STA. 68+93.81 TO STA. 69+00.00

DESIGN AGENCY

DESIGNER PRS

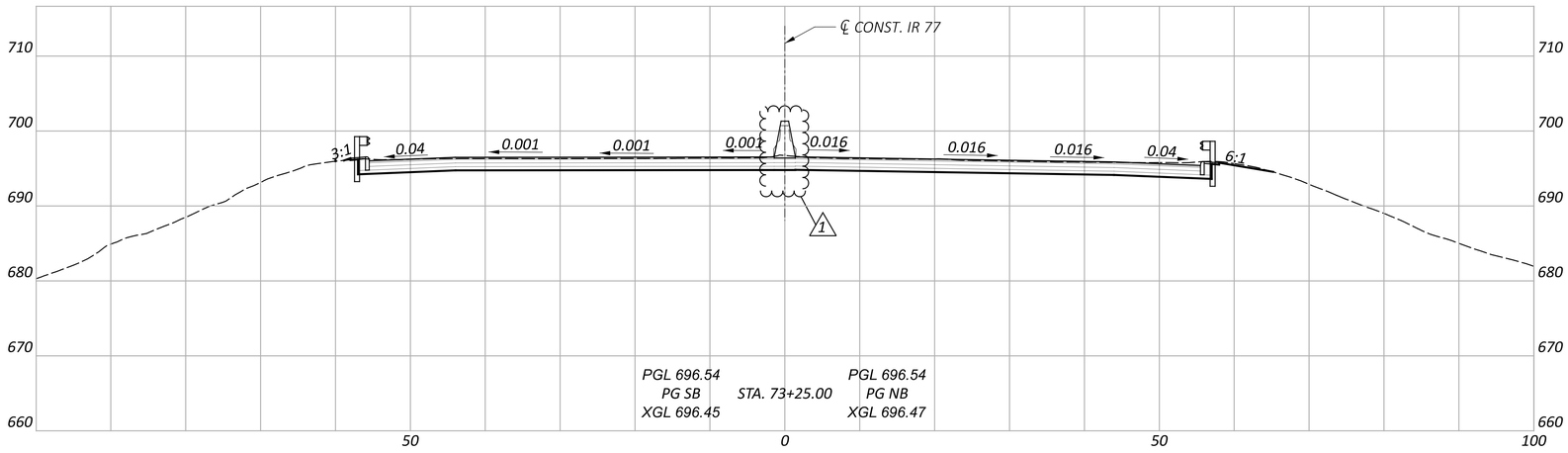
REVIEWER ALP 7-28-25

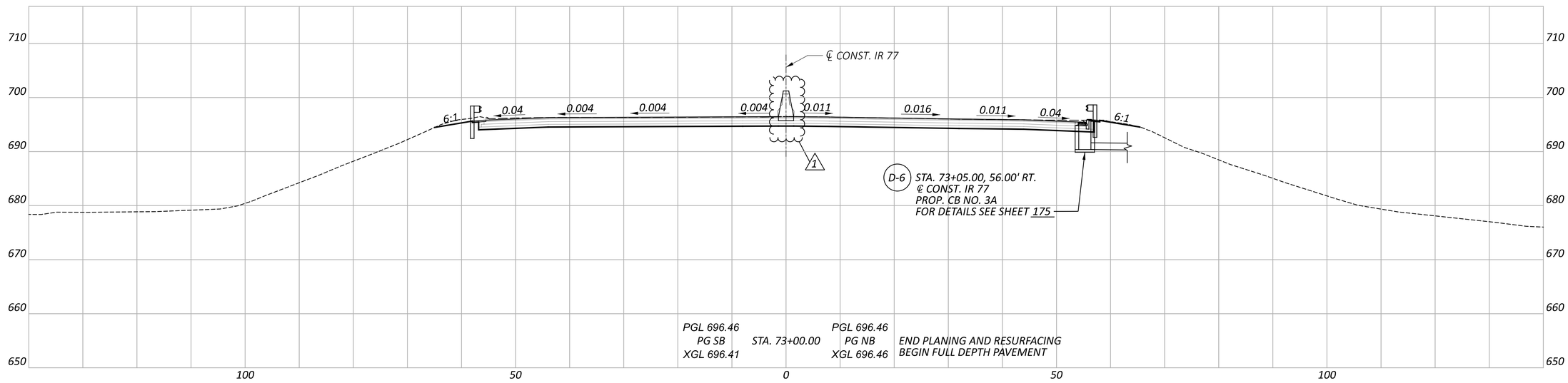
PROJECT ID 119380

SHEET P.152 TOTAL 365

CUY-77-15.46

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F:\2023\22111 CUY-77-15.46\119380\400-Engineering\Roadway\Sheets\119380_XS507.dgn





1	10/13/25	REVISE MEDIAN BARRIER/SHOULDER CROSS SLOPES

SEE EARTHWORK SUBSUMMARY FOR QUANTITIES

Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS
STA. 73+00.00 TO STA. 73+25.00

DESIGN AGENCY

DESIGNER PRS

REVIEWER ALP 7-28-25

PROJECT ID 119380

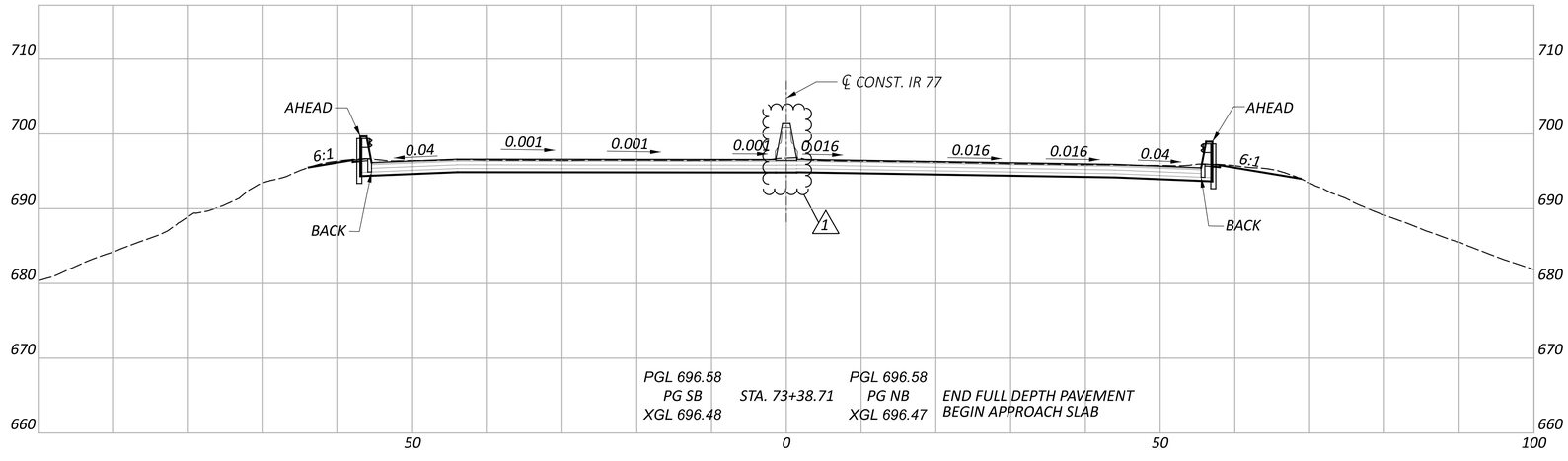
SHEET P.153 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/21/2025 TIME: 1:49:52 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@manniksmithgroup.com WORKSPACE: OHDOTCEv02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
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F:\2023\22111 CUY-77-15.46\119380\400-Engineering\Roadway\Sheets\119380_XS09.dgn

CUY-77-15.46



1	10/13/25	REVISE MEDIAN BARRIER/SHOULDER CROSS SLOPES

SEE EARTHWORK SUBSUMMARY FOR QUANTITIES

Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS
STA. 73+38.71

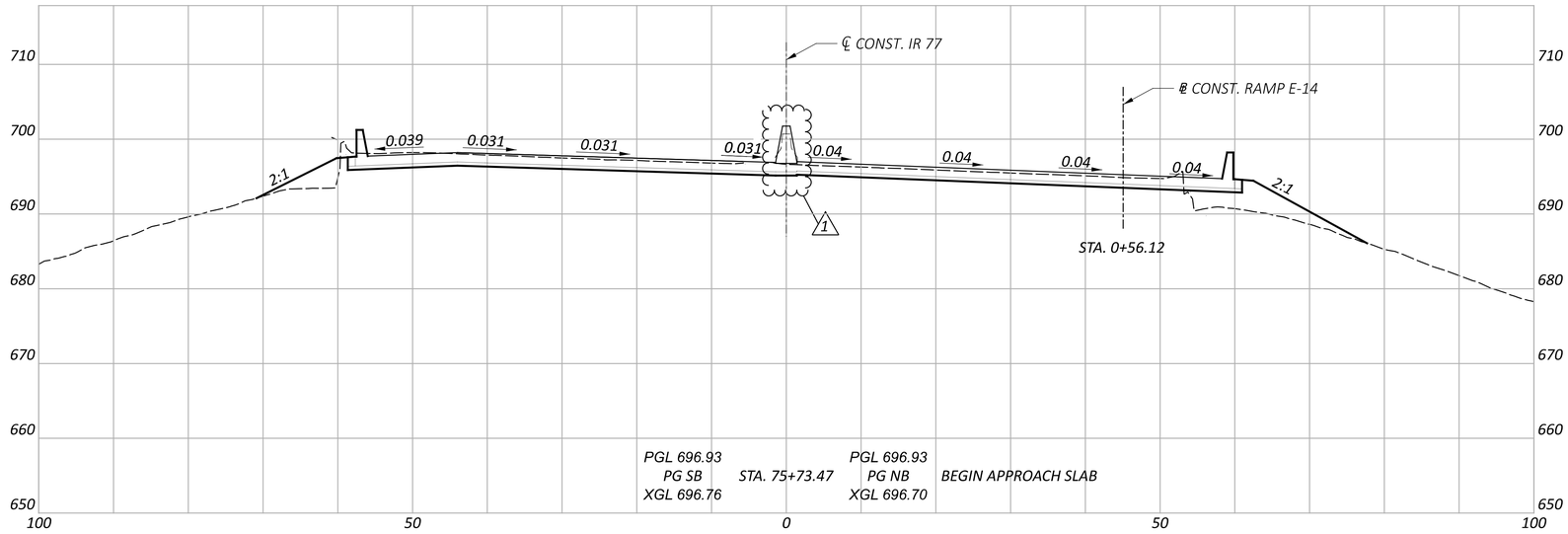
DESIGN AGENCY

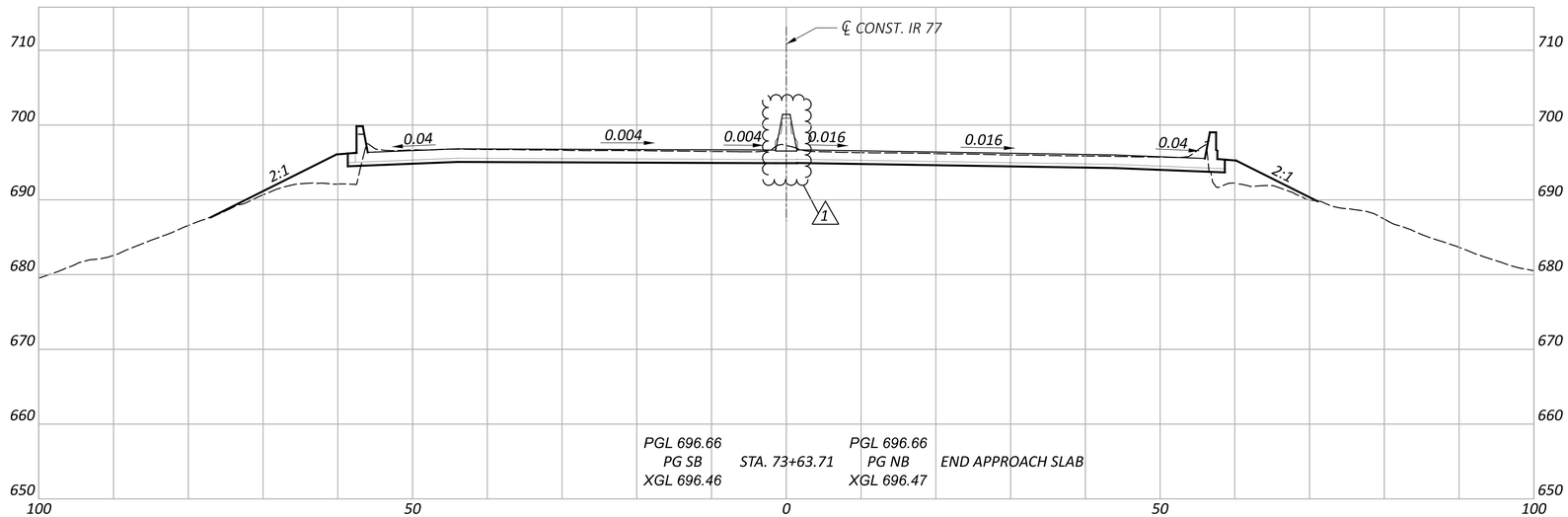
DESIGNER PRS

REVIEWER ALP 7-28-25

PROJECT ID 119380

SHEET P.154 TOTAL 365





1	10/13/25	REVISE MEDIAN BARRIER/SHOULDER CROSS SLOPES

SEE EARTHWORK SUBSUMMARY FOR QUANTITIES

Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS
STA. 73+63.71 TO STA. 75+73.47

DESIGN AGENCY

DESIGNER PRS

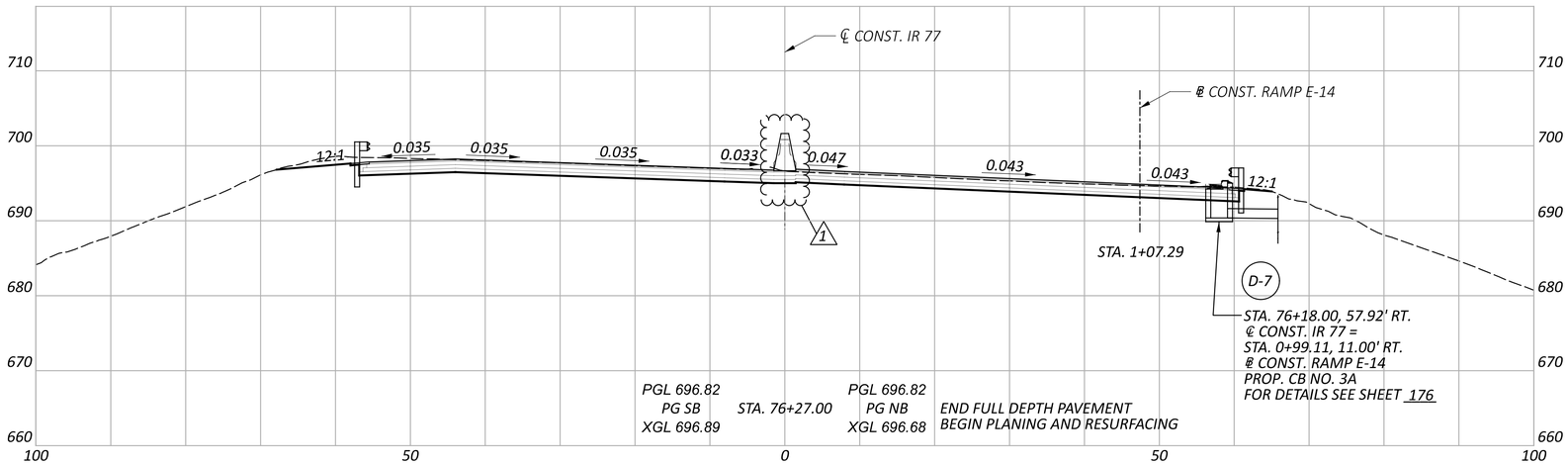
REVIEWER ALP 7-28-25

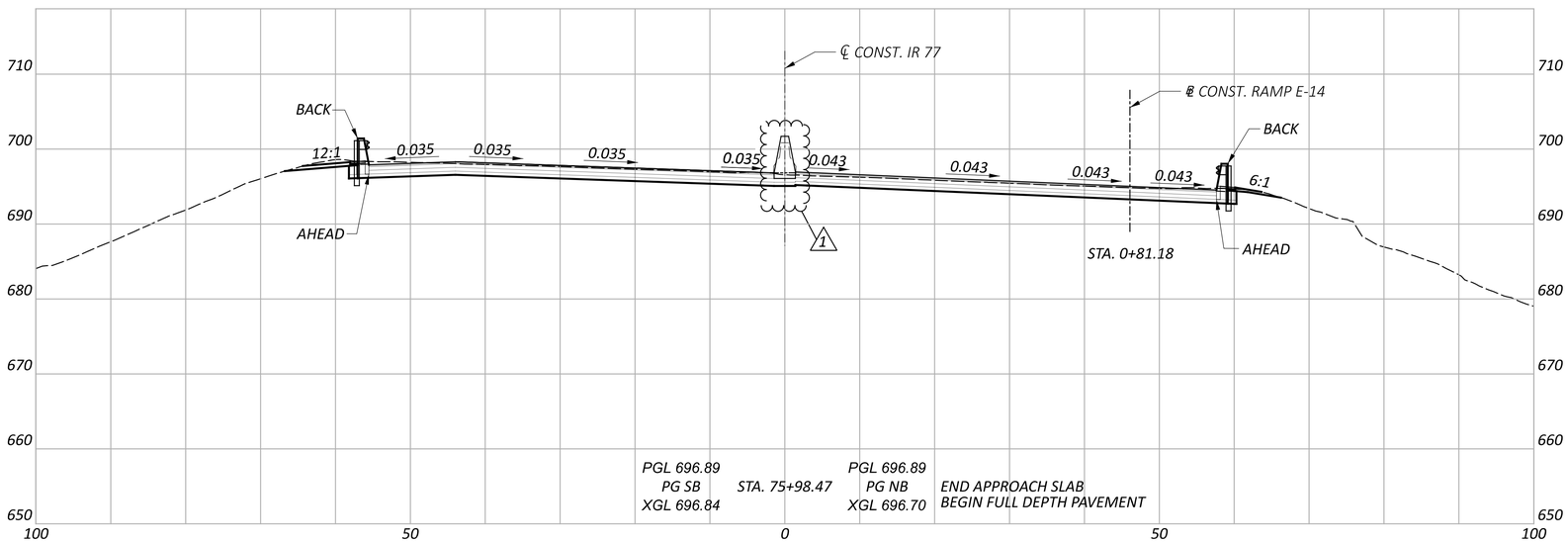
PROJECT ID 119380

SHEET P.155 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/21/2025 TIME: 1:52:28 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@manniksmithgroup.com WORKSPACE: OHDOTCEv02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\Roadway\Sheets\119380_XS510.dgn





1	10/13/25	REVISE MEDIAN BARRIER/SHOULDER CROSS SLOPES

SEE EARTHWORK SUBSUMMARY FOR QUANTITIES

Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS
STA. 75+98.47 TO STA. 76+27.00

DESIGN AGENCY

DESIGNER PRS

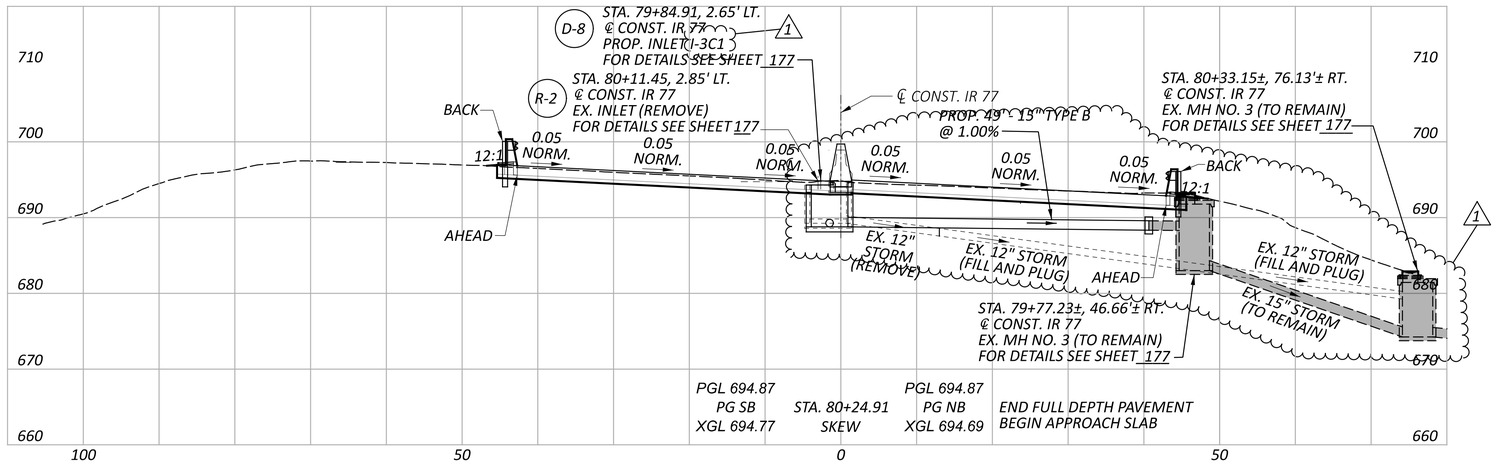
REVIEWER ALP 7-28-25

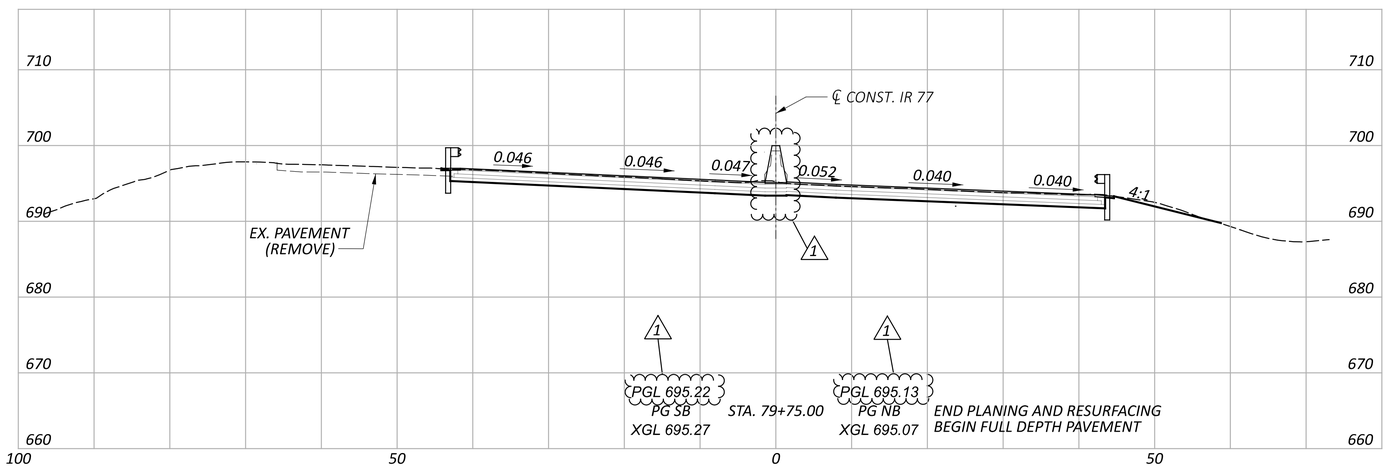
PROJECT ID 119380

SHEET P.156 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/21/2025 TIME: 2:52:16 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@manniksmithgroup.com WORKSPACE: OHDOTCEv02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\Roadway\Sheets\119380_XS511.dgn





LEGEND

CONSTRUCTED WITH CCG3A

1	10/13/25	REVISE ELEVATIONS/REVISE STORM PROFILE/ REVISE MEDIAN BARRIER/SHOULDER CROSS SLOPES

SEE EARTHWORK SUBSUMMARY FOR QUANTITIES

Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS
STA. 79+75.00 TO STA. 80+24.91

DESIGN AGENCY

DESIGNER PRS

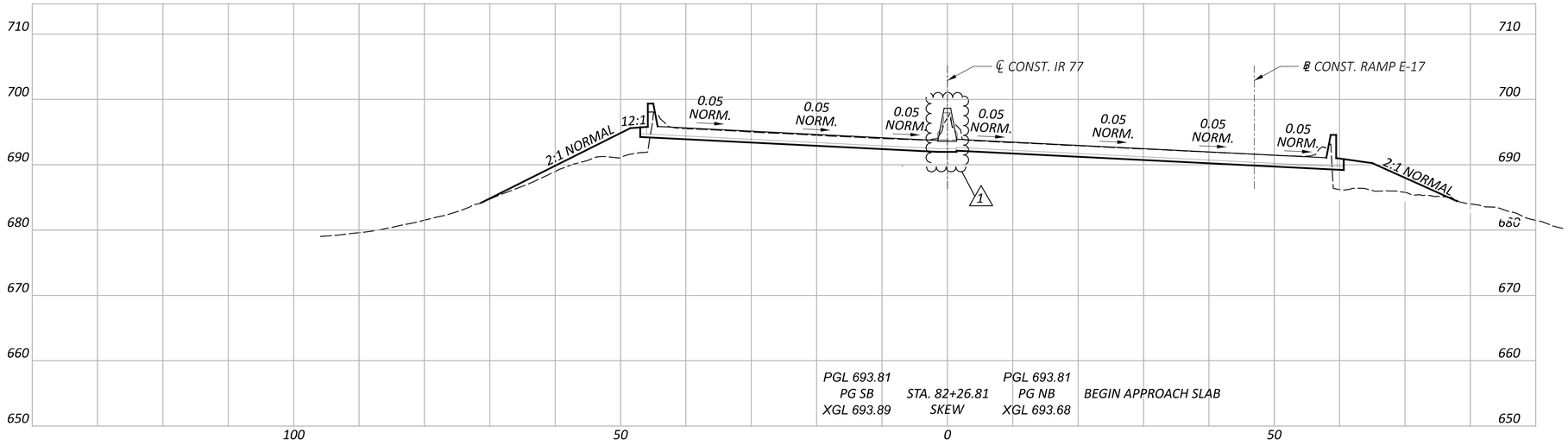
REVIEWER ALP 7-28-25

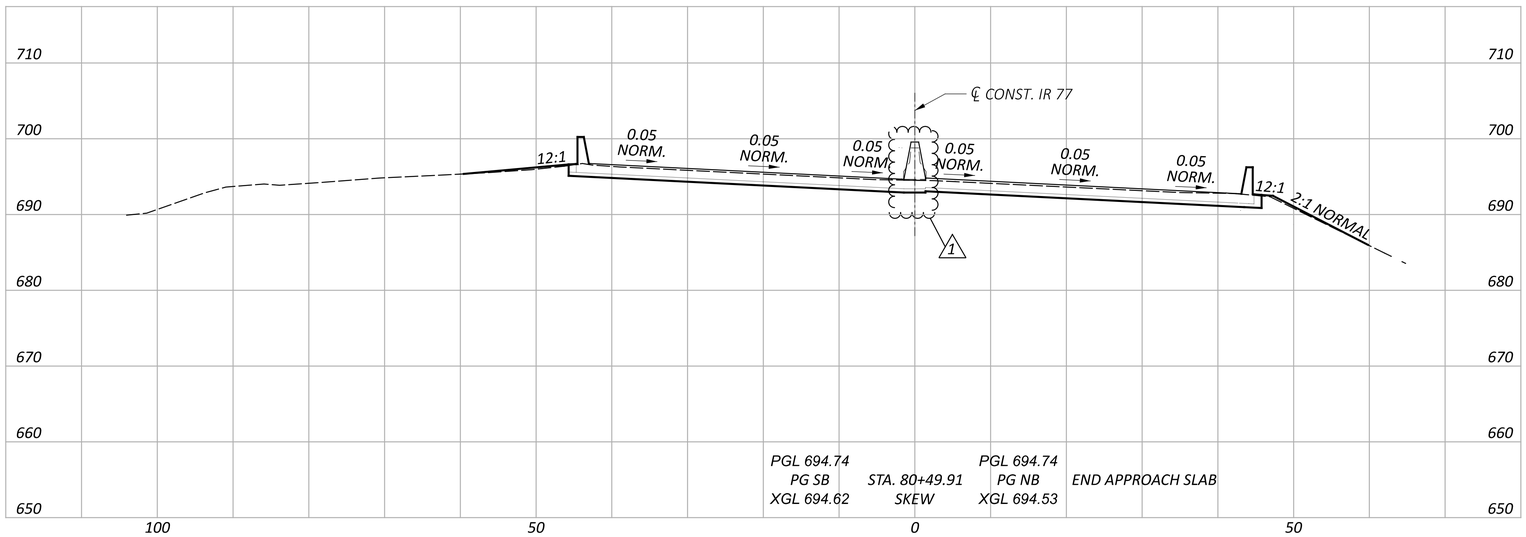
PROJECT ID 119380

SHEET P.157 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/21/2025 TIME: 1:56:01 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@manniksmithgroup.com WORKSPACE: OHDOTCEv02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\Roadway\Sheets\119380_XS512.dgn





1	10/13/25	REVISE MEDIAN BARRIER/SHOULDER CROSS SLOPES

SEE EARTHWORK SUBSUMMARY FOR QUANTITIES

Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS
STA. 80+49.91 TO STA. 82+26.81

DESIGN AGENCY

DESIGNER PRS

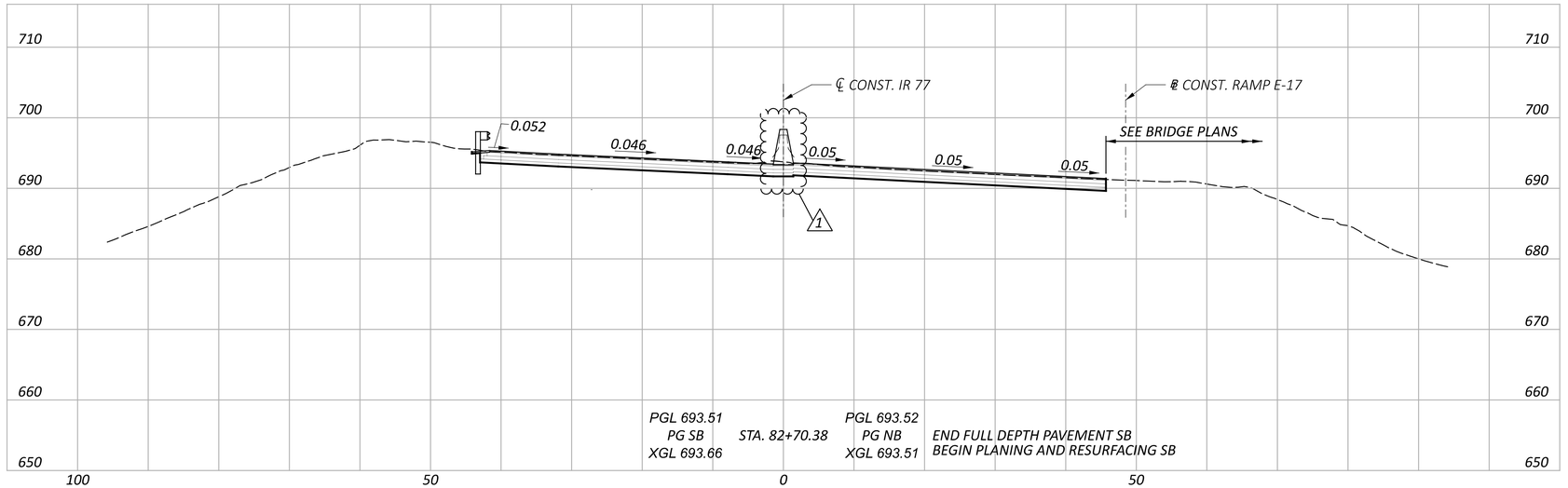
REVIEWER ALP 7-28-25

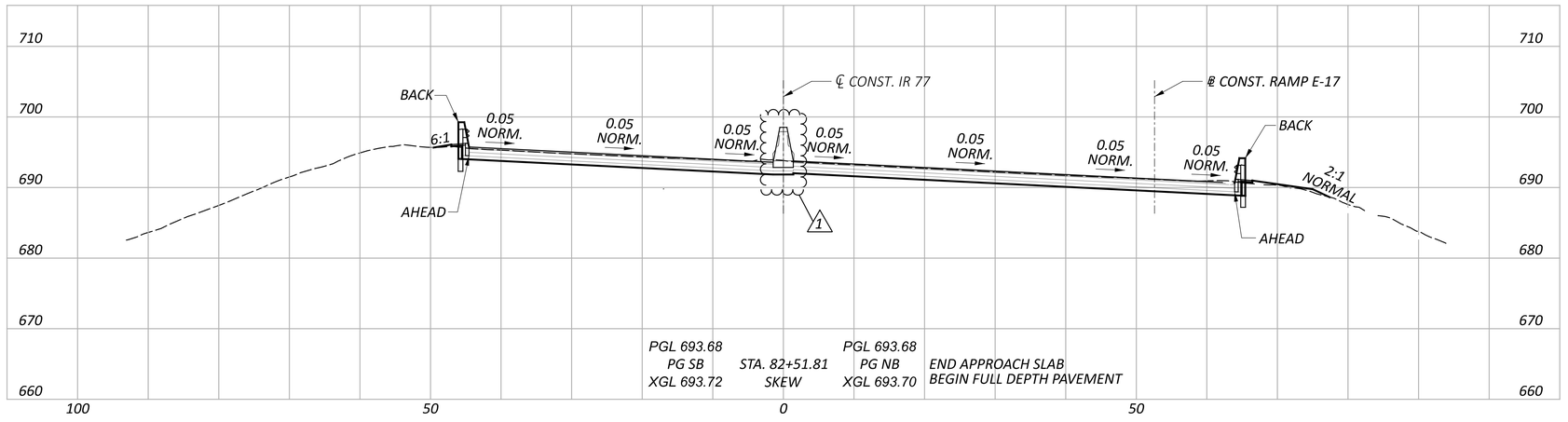
PROJECT ID 119380

SHEET P.158 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/21/2025 TIME: 1:57:24 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@manniksmithgroup.com WORKSPACE: OHDOTCEv02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\Roadway\Sheets\119380_XS513.dgn





1	10/13/25	REVISE MEDIAN BARRIER/SHOULDER CROSS SLOPES

SEE EARTHWORK SUBSUMMARY FOR QUANTITIES

Sheet Totals		
Seeding	Cut	Fill

CROSS SECTIONS
STA. 82+51.81 TO STA. 82+70.38 LT.

DESIGN AGENCY

DESIGNER PRS

REVIEWER ALP 7-28-25

PROJECT ID 119380

SHEET P.159 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/21/2025 TIME: 1:58:27 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@manniksmithgroup.com WORKSPACE: OHDOTCEv02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\Roadway\Sheets\119380_XS514.dgn

CROSS REFERENCES	
7-16	TYPICAL SECTIONS
142	IR 77 PLAN
145-160	CROSS SECTIONS
173	DRAINAGE PLAN
174-185	DRAINAGE DETAILS

LEGEND

- PORTION TO BE INSTALLED WITH CCG3A
- PLANING AND RESURFACING
- CONCRETE SLOPE PROTECTION
- SLOPE EROSION PROTECTION
- ROCK CHANNEL PROTECTION, TYPE C (1'-6" THK.)

NOTES:

1. FOR EXISTING UTILITY DISPOSITION, SEE DRAINAGE PLANS.

B.M. #8: STA. 76+83.72, 64.78' RT.
CHISELED X IN BOLT ON SIGN BASE ELEV. = 695.07

B.M. #9: STA. 79+77.12, 50.43' RT.
CHISELED X IN BOLT ON SIGN BASE ELEV. = 693.35

B.M. #10: STA. 80+07.91, 62.20' LT.
⅝"x30" REBAR WITH REL TRAV. CAP SET ELEV. = 697.27

B.M. #11: STA. 81+72.96, 119.76' RT.
CHISELED X IN BOLT ON SIGN BASE ELEV. = 674.65

DRAINAGE LEGEND

DD1 PROP. 15" TYPE F, 707.05 TYPE C, 707.21 OR 707.33

STA. 81+34.69 ℄ CONST. IR 77 =
STA. 5+95.20 ℄ CONST. E. 14TH ST.

STA. 42+40.14, ℄ R/W ORANGE AVE. =
℄ R/W E. 14TH ST.

℄ CONST. E. 14TH ST.

℄ R/W E. 14TH ST.

℄ R/W ORANGE AVE.

℄ CONST. RAMP E-10

℄ CONST. RAMP E-9

℄ CONST. RAMP E-17

℄ CONST. RAMP E-14

℄ CONST. IR 77

+40.00 END CURB REPLACEMENT RT.

+40.00 BEGIN CURB REPLACEMENT LT.

+00.00 END CURB REPLACEMENT LT.

+20.00 BEGIN CURB REPLACEMENT RT.

PROP. 15" TYPE C, 706.02

PROP. 15" TYPE B

PROP. 15" TYPE F

PCC STA. 6+21.14

PT STA. 11+14.37

PC STA. 13+98.35

POT STA. 17+41.98

POT STA. 83+25.00

18°02'35" (TYP.)

3 STORY BUILDING
CUYAHOGA COMMUNITY COLLEGE

HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN - E. 14th ST.
STA. 0+00.00 TO STA. 11+00.00

1	10/13/25	REVISE EX. UD/REVISE PROP. UD

DESIGN AGENCY

DESIGNER PRS
REVIEWER ALP 7-28-25
PROJECT ID 119380
SHEET P.163 TOTAL 365

CUY-77-15.46

MODEL: SIDEROADS - PLAN E 14 PAPERSIZE: 34x22 (in.) DATE: 10/16/2025 TIME: 9:44:26 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@mannikmithgroup.com WORKSPACE: OHDOTCEv02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
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CUY-77-15.46

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HORIZONTAL SCALE IN FEET
0 10 20 40

PAVEMENT DETAIL
E. 14th ST.

PROP. 15" (CONSTRUCTED BY CCG3A)
PROP. 15" (TO REMAIN)
PROP. 15" TYPE B
PROP. 15" TYPE C
EX. 6" RCP (TO REMAIN)
EX. 12" RCP (TO REMAIN)
EX. 15" RCP (TO REMAIN)
EX. 18" RCP (TO REMAIN)
EX. 12" (TO REMAIN)
EX. 12" VCP (TO REMAIN)
EX. 12" RCP (REMOVE)
EX. 15" RCP (TO REMAIN)
EX. 18" RCP (TO REMAIN)
PCC STA. 80+04.11
STA. 81+00.00 ℄ CONST. IR 77 = STA. 0+00.00, 32.00' RT. ℄ CONST. RAMP E-17
STA. 82+70.38 END FULL DEPTH PAVEMENT
STA. 82+96.33 ℄ CONST. IR 77 = STA. 17+41.98, 37.69' LT. ℄ CONST. RAMP E-10
STA. 17+13.20 MATCH EXISTING
STA. 83+00.05 END FULL DEPTH PAVEMENT
STA. EQUATION STA. 83+00.05 ℄ CONST. IR 77 = STA. 1+96.29 ℄ CONST. RAMP E-17
STA. 2+50.00 MATCH EXISTING
℄ CONST. IR 77
PROFILE GRADE IR 77 SB
PROFILE GRADE IR 77 NB
℄ CONST. RAMP E-10
℄ CONST. RAMP E-17
PROFILE GRADE RAMP E-17
12.0'
24.0'
24.4'
9.5'
3.0'
8.9'

695.53 695.14 695.30 694.85 695.09 694.47 694.78 694.17 693.94 693.74 693.51 693.33 693.22 692.96 692.74 693.74 693.53 692.83 692.49 692.70 692.04 691.60 691.21 690.55 690.41 >690.22 689.09 689.00 689.25 688.51 687.64 687.17

79 80 81 82 83 1 2 3 4 5 6 7 14 16 17

LEGEND

CONSTRUCTED WITH CCG3A

CROSS REFERENCES	
7-16	TYPICAL SECTIONS
142	PLAN
143	PROFILE
145-160	CROSS SECTIONS

1	10/13/25	REVISE EX. UD

DESIGN AGENCY

DESIGNER RJM
REVIEWER ALP 7-28-25
PROJECT ID 119380
SHEET P.170 TOTAL 365

DRAINAGE LEGEND

- AG-X — ADJUSTED TO GRADE
- D-X — PROPOSED DRAINAGE
- R-X — EXISTING DRAINAGE REMOVED
- RCP -X — ROCK CHANNEL PROTECTION, TYPE C (1'-6" THICK)
- UNCLASSIFIED PIPE UNDERDRAIN FLOWLINE ELEVATION
- ROCK CHANNEL PROTECTION, TYPE C (1'-6" THICK)

LEGEND

- PLANING AND RESURFACING
- * TRANSITION CURB HEIGHT FROM 0" TO 6" IN 2.5' (CURB, TYPE 6)
- ¥ TRANSITION CURB HEIGHT FROM 4" TO 6" IN 2' (CURB, TYPE 6)

CROSS REFERENCES	
7-16	TYPICAL SECTIONS
140	PLAN
141	PROFILE
145-160	CROSS SECTIONS
161	PLAN - WOODLAND AVE.
174-185	DRAINAGE DETAILS
217	STRUCTURE SITE PLAN

EX. DRAINAGE STRUCTURE INFORMATION - WOODLAND AVE.

REFERENCE NO.	STATION	OFFSET	TOP OF GRATE	TOP OF COVER	EX. PIPE DIAMETER	EX. PIPE DIRECTION	FLOWLINE EL.
AG-1	67+58.96±	62.51'± LT.		674.81±	12"±	SE	670.58±
AG-2	66+14.91±	28.05'± RT.	671.98±		12"±	SE	668.00±
R-1	64+13.12±	60.11'± RT.	693.12±		12"±	SE	UNKNOWN

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

EX. 15" STORM (TO REMAIN); CB; CURB, TYPE 6; RCP -1; CURB, TYPE 4-C; STA. 64+46.84; ℄ CONST. RAMP F-3; LS-1; LOE-1; LS-2; LOE-2; LCH-2; D-1; LS-3; CR-1; PROP. 15" TYPE F, 707.05 TYPE C, 707.21 OR 707.33; POT STA. 0+00.00; +60.00 END CURB LT. REPLACEMENT; EX. 6" CPP (TO REMAIN); EX. 6" CPP (TO REMAIN); EX. 12" RCP (TO REMAIN); MH; AG-1; CR-2; LCH-3; CURB TYPE 4-C; LOE-3; LS-4; ℄ EL. 688.04; LCH-1; LIE-1; LIE-2; C-1; +80.00 END CURB RT. REPLACEMENT; ℄ CONST. US 422 WB (WOODLAND AVE.); 689.47; 689.47; 689.84; 689.85; 689.93; 689.94; 690.16; 690.09; 690.16; C-2; LIE-3; N 75° 09' 47" W; ℄ CONST. IR 77; TRANSVERSE UNDERDRAIN INCLUDED WITH TYPE A INSTALLATION FOR PAYMENT. SEE STANDARD DRAWING AS-2-15 FOR DETAILS.; RIE-4; 690.09; 689.51; 689.12; 688.81; ℄ EL. 687.22; STA. 68+93.23; RIE-1; RIE-2; RIE-3; ROL-2; 689.11; 688.74; 689.12; ℄ EXIST. RAMP F-4; ℄ CONST. RAMP F-4; ROL-1; C-3; 688.59; 688.75; EX. 12" STORM (TO REMAIN); 688.59; 689.12; 688.83; 689.61; MATCHLINE STA. 9+25.00; ROE-1; RS-1; RS-2; ROE-2; PT STA. 109+34.36; POT STA. 109+71.52; EX. 12" (REMOVE); MH; CB (TO REMAIN); AG-2; CR-5; RS-3; ROE-3; RD-1; D-2; D-3; PROP. 15" TYPE F, 707.05 TYPE C, 707.21 OR 707.33; EX. 12" RCP (TO REMAIN); CR-4; R-1; EX. INLET (REMOVE); POT STA. 10+52.42; EX. 12" RCP (TO REMAIN); +00.00 BEGIN CURB RT. REPLACEMENT; +05.00 BEGIN CURB LT. REPLACEMENT; EX. CB (TO REMAIN); CONC. COLLAR AS PER DM-1.1 (TYP.); DROP. 4' - 12" TYPE C, 706.02 @ EX. SLOPE; CURB, TYPE 4-C; CURB, TYPE 6; EX. 30" RCP (TO REMAIN); EX. 12" RCP (TO REMAIN); EX. SAN. (TO REMAIN); SAN MH; EX. SAN. (TO REMAIN)

UNDERDRAIN LEGEND

LS-X	= LEFT SHOULDER	RS-X	= RIGHT SHOULDER
LOE-X	= LEFT OUTSIDE EDGE LINE	ROE-X	= RIGHT OUTSIDE EDGE LINE
LCH-X	= LEFT CHANNELIZING LINE	ROL-X	= RIGHT OUTSIDE LANE LINE
LIE-X	= LEFT INSIDE EDGE LINE	RIE-X	= RIGHT INSIDE EDGE LINE
F4S-X	= RAMP F-4 SHOULDER	RD-X	= RIGHT DOTTED LINE

1	10/13/25	REVISE TO MANHOLE/ADD UD ELEV.

℄ EXIST. RAMP F-4; ℄ CONST. RAMP F-4; MATCHLINE STA. 9+25.00; STA. 6+32.41, 23.77' RT. ℄ CONST. RAMP F-4 ℄ UD OUTLET EL. 689.70; F4S-1; STA. 7+11.24 ℄ EXIST. RAMP F-4; STA. 107+11.24 ℄ CONST. RAMP F-4; RS-1; PC STA. 7+95.70

DRAINAGE PLAN WOODLAND AVE.

DESIGN AGENCY

DESIGNER ALP

REVIEWER PRS 7-28-25

PROJECT ID 119380

SHEET P.171 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/16/2025 TIME: 9:50:35 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@mannliksmithgroup.com WORKSPACE: OHDOTCEv02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
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DRAINAGE LEGEND

- AG-X — ADJUSTED TO GRADE
- D-X — PROPOSED DRAINAGE
- RCP -X — ROCK CHANNEL PROTECTION, TYPE C (1'-6" THICK)
- ITEM 601 - TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT (55' x 5'-6")
- ROCK CHANNEL PROTECTION, TYPE C (1'-6" THICK)

LEGEND

- PLANING AND RESURFACING
- * TRANSITION CURB HEIGHT FROM 0" TO 6" IN 2.5' (CURB, TYPE 6)
- ¥ TRANSITION CURB HEIGHT FROM 4" TO 6" IN 2' (CURB, TYPE 6)
- PORTION TO BE INSTALLED WITH CCG3A
- DO NOT DISTURB. ELECTRIC SHALL REMAIN IN SERVICE. CONTRACTOR TO VERIFY LOCATION. CONDUIT MAY BE MOVED SLIGHTLY TO AVOID ELECTRIC LINE.

EX. DRAINAGE STRUCTURE INFORMATION - E. 22nd ST.							
REFERENCE NO.	STATION	OFFSET	TOP OF GRATE	TOP OF COVER	EX. PIPE DIAMETER	EX. PIPE DIRECTION	FLOWLINE EL.
AG-3	74+32.78±	9.55'± LT.	675.10±		12"±	NW	671.10±
AG-4	75+06.59±	9.13'± LT.	675.00±		12"±	E	670.60±

1	10/13/25	ADD UD ELEV.

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

UNDERDRAIN LEGEND

- LS-X = LEFT SHOULDER
- LIE-X = LEFT INSIDE EDGE LINE
- LD-X = LEFT DOTTED LINE
- RS-X = RIGHT SHOULDER
- ROE-X = RIGHT OUTSIDE EDGE LINE
- ROL-X = RIGHT OUTSIDE LANE LINE
- RIE-X = RIGHT INSIDE EDGE LINE

POT STA. 3+48.74
15" UNK
12" RCP
CB
℄ EL. 689.37
D-4
PROP. FLUME
CURB, TYPE 4-C
C-4
LS-5
LD-1
CR-3
PT STA. 73+33.10
LIE-4
73
N 75°09'47" W
RIE-5
D-6
*
¥
C-6
ROL-3
CR-6
RS-4
ROE-4
PROP. 15" TYPE F, 707.05 TYPE C, 707.21 OR 707.33
CURB, TYPE 4-C
CURB, TYPE 6
PROP. 15" TYPE C
RCP -2
+10.00 BEGIN CURB AND WALK
REPLACEMENT LT. & RT.
℄ CONST. IR 77
AG-3
CB
EX. 12" RCP
74
EX. 12" RCP
CB
AG-4
75
℄ CONST. E. 22nd ST.
PC STA. 75+25.88
EX. 48" BRK
MH
EX. 12" RCP
CB
EX. 48" BRK
POT STA. 0+00.00
EX. SAN. (TO REMAIN)
+45.00 END CURB AND WALK
REPLACEMENT LT. & RT.
12" VCP
CB
12" VCP
CB
LS-6
C-5
LD-2
CURB, TYPE 4-C
PROP. FLUME
℄ EL. 692.00
D-5
LIE-5
RIE-6
76
77
78
EX. CONC. WALL
ROL-4
ROE-5
C-7
RS-5
EX. LIGHT POLE
D-7
RS-6
PROP. 15" TYPE C
CURB, TYPE 6
CURB, TYPE 4-C
PROP. 15" TYPE F, 707.05 TYPE C, 707.21 OR 707.33
RCP -3
EX. SAN. (TO REMAIN)
℄ CONST. RAMP E-14
PCC STA. 2+79.97

CROSS REFERENCES	
7-16	TYPICAL SECTIONS
142	PLAN
143	PROFILE
145-160	CROSS SECTIONS
162	PLAN - E. 22ND ST.
174-185	DRAINAGE DETAILS
272	STRUCTURE SITE PLAN

NOTE: EXISTING UTILITIES TO REMAIN UNLESS OTHERWISE NOTED.

DRAINAGE PLAN
E. 22nd ST.

DESIGN AGENCY

DESIGNER: ALP
REVIEWER: PRS 7-28-25
PROJECT ID: 119380
SHEET: P.172 | TOTAL: 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/16/2025 TIME: 9:52:47 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@mamiksmithgroup.com WORKSPACE: OHDOTCEv02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
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1	10/13/25	ADD TEMPORARY CONNECTION/ REVISE CALLOUTS/ADD UD ELEV.

EX. DRAINAGE STRUCTURE INFORMATION - E. 14th ST.							
REFERENCE NO.	STATION	OFFSET	TOP OF GRATE	TOP OF COVER	EX. PIPE DIAMETER	EX. PIPE DIRECTION	FLOWLINE EL.
AG-5	78+40.46±	1.63'± LT.	695.85±		12"±	SE	691.81±
AG-6	80+78.41±	84.26'± LT.		674.20±	18"±	NW	667.50±
					12"±	W	668.40±
					15"±	S	669.05±
					6"±	SE	669.90±
					18"±	N	667.50±
					6"±	S	670.00±

HORIZONTAL SCALE IN FEET
0 10 20 40

UNDERDRAIN LEGEND

- LS-X = LEFT SHOULDER
- LIE-X = LEFT INSIDE EDGE LINE
- LD-X = LEFT DOTTED LINE
- RS-X = RIGHT SHOULDER
- ROE-X = RIGHT OUTSIDE EDGE LINE
- RIE-X = RIGHT INSIDE EDGE LINE

DRAINAGE LEGEND

- RC-X RECONSTRUCTED TO GRADE
- AG-X ADJUSTED TO GRADE
- D-X PROPOSED DRAINAGE
- R-X EXISTING DRAINAGE REMOVED
- RCP -X ROCK CHANNEL PROTECTION, TYPE C (1'-6" THICK)
- UNCLASSIFIED PIPE UNDERDRAIN FLOWLINE ELEVATION
- ROCK CHANNEL PROTECTION, TYPE C (1'-6" THICK)
- ITEM 836 - SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1
- CONSTRUCTED WITH CCG3A

1 TEMPORARY CONNECTION TO BE INSTALLED IN SB PHASE 1 AND TO REMAIN UNTIL NB PHASE 2. ITEM 611 - 12" CONDUIT, TYPE B, AS PER PLAN AND ITEM 611 - MANHOLE, NO. 3, AS PER PLAN B. SEE NOTES AND DETAIL ON SHEET 179.

LEGEND

- PLANING AND RESURFACING
- * TRANSITION CURB HEIGHT FROM 0" TO 6" IN 2.5' (CURB, TYPE 6)
- ¥ TRANSITION CURB HEIGHT FROM 4" TO 6" IN 2' (CURB, TYPE 6)

CROSS REFERENCES	
7-16	TYPICAL SECTIONS
142	PLAN
143	PROFILE
145-160	CROSS SECTIONS
163	PLAN - E. 14TH ST.
174-185	DRAINAGE DETAILS
312	STRUCTURE SITE PLAN

NOTE: EXISTING UTILITIES TO REMAIN UNLESS OTHERWISE NOTED.

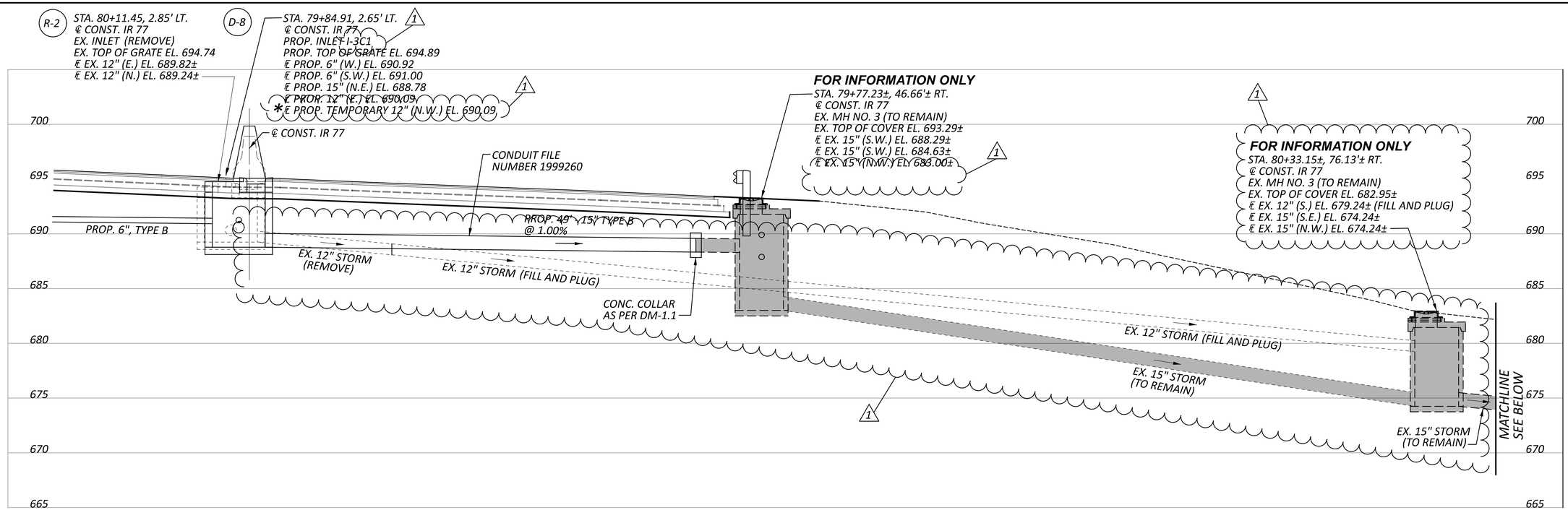
DRAINAGE PLAN
E. 14th ST.

DESIGN AGENCY

DESIGNER ALP
REVIEWER PRS 7-28-25
PROJECT ID 119380
SHEET P.173 TOTAL 365

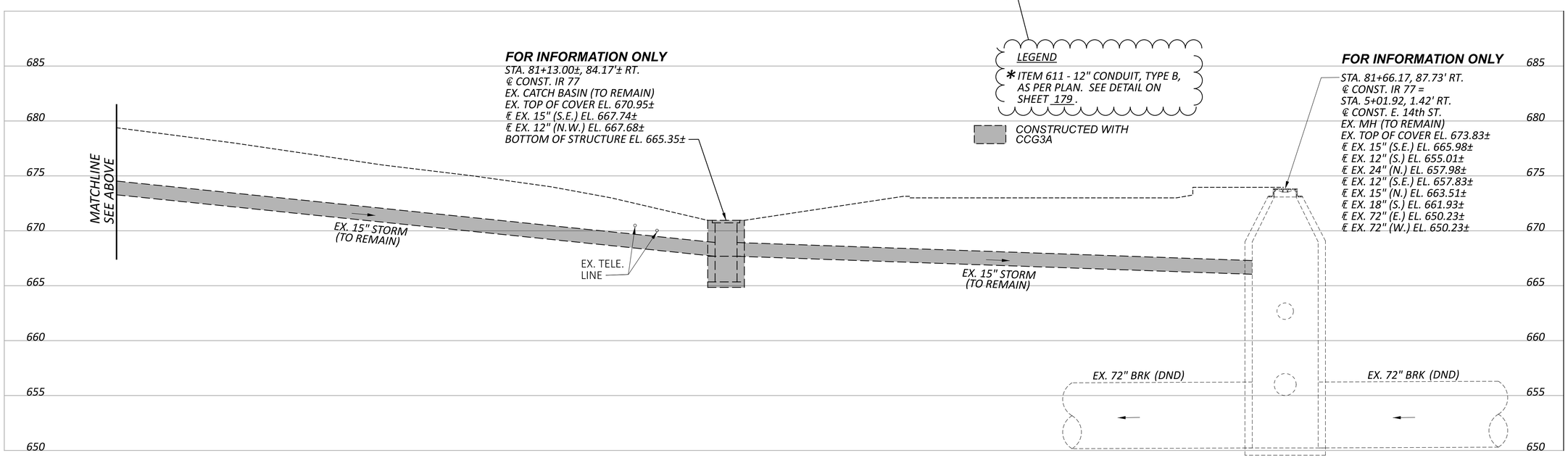
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STORM SEWER PROFILE (E. 14th ST. BRIDGE - RIGHT REAR STORM)

1	10/13/25	REVISE 12" STORM (FILL AND PLUG), 15" STORM/ STORM CALLOUT/LEGEND/INLET TYPE



STORM SEWER PROFILE (E. 14th ST. BRIDGE - RIGHT REAR STORM)

HORIZONTAL SCALE IN FEET
0 2.5 5 10

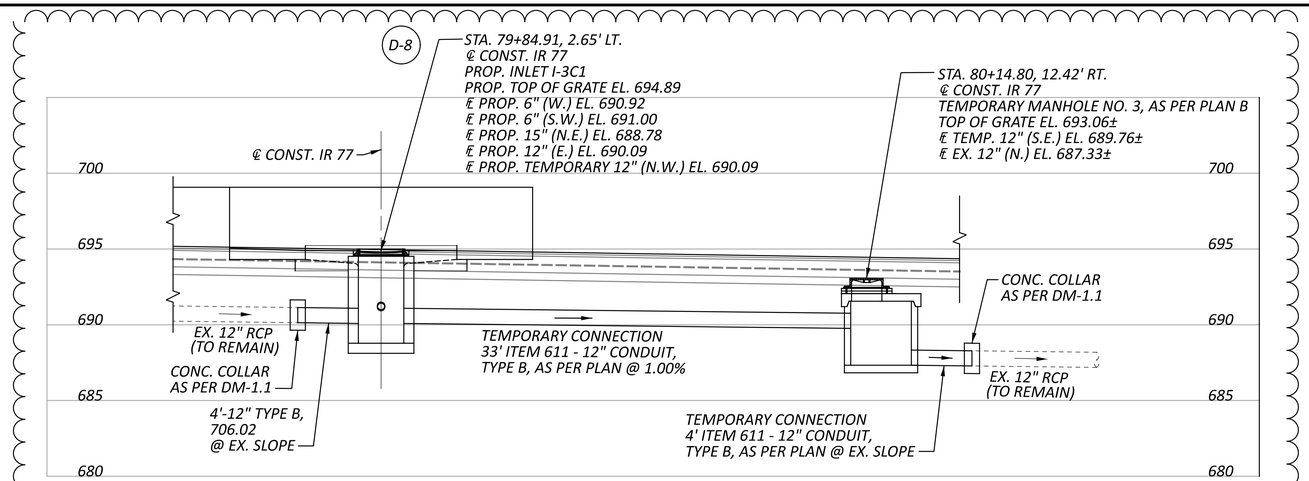
DRAINAGE DETAILS - E. 14th ST.

DESIGN AGENCY

DESIGNER ALP
REVIEWER PRS 7-28-25
PROJECT ID 119380
SHEET P.177 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/21/2025 TIME: 2:53:29 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@manniksmithgroup.com WORKSPACE: OHDOTCEv02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
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STORM SEWER PROFILE (E. 14th ST. BRIDGE - TEMPORARY CONNECTION)

1

ITEM 611 – 12" CONDUIT, TYPE B, AS PER PLAN

THIS ITEM SHALL BE PER CMS 611. THE 12" CONDUIT WILL PROVIDE A TEMPORARY CONNECTION FROM THE PROPOSED INLET AT STATION 79+84.91, 2.65' LT TO THE TEMPORARY MANHOLE AT STATION 80+14.80, 12.42' RT AND SHALL BE INSTALLED DURING SOUTHBOUND PHASE 1; THE TEMPORARY CONDUIT SHALL REMAIN IN SERVICE UNTIL NORTHBOUND PHASE 2 WHEN THE PROPOSED 15" CONDUIT IS COMPLETED. ONCE THE PROPOSED STORM SYSTEM IS FULLY INSTALLED AND ACTIVE, THE TEMPORARY CONDUIT SHALL BE PARTIALLY REMOVED AND FILLED AND PLUGGED IN ACCORDANCE WITH CMS 202 INCLUDING PLUGGING THE OUTLET LOCATION ON THE NEW INLET. APPROXIMATELY 12' OF THE TEMPORARY CONDUIT SHALL BE FILLED AND PLUGGED (FROM THE INLET TO THE CONSTRUCTION JOINT) AND THE REMAINING LENGTH OF THE TEMPORARY CONDUIT SHALL BE REMOVED (FROM THE CONSTRUCTION JOINT TO THE TEMPORARY MANHOLE). SEE GENERAL NOTE 'FILL AND PLUG EXISTING CONDUIT' ON SHEET 21 . SEE TEMPORARY CONNECTION DETAIL THIS SHEET.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT BID PRICE FOR ITEM 611 – 12" CONDUIT, TYPE B, AS PER PLAN AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO PERFORM THIS ITEM OF WORK AS APPROVED BY THE ENGINEER.

ITEM 611 – MANHOLE, NO. 3, AS PER PLAN B

A TEMPORARY MANHOLE SHALL BE INSTALLED ALONG THE EXISTING 12"CONDUIT AT STATION 80+14.80, 12.42' RT TO PROVIDE A TEMPORARY CONNECTION FROM THE PROPOSED INLET AT STATION 79+84.94, 2.65' LT. THE TEMPORARY MANHOLE SHALL BE INSTALLED DURING SOUTHBOUND PHASE 1; THE TEMPORARY MANHOLE SHALL REMAIN IN SERVICE UNTIL NORTHBOUND PHASE 2. ONCE THE PROPOSED STORM SYSTEM IS FULLY INSTALLED AND ACTIVE, THE TEMPORARY MANHOLE SHALL BE REMOVED IN ACCORDANCE WITH CMS 202. SEE TEMPORARY CONNECTION DETAIL THIS SHEET.

THE TOP OF CASTING ELEVATION SHALL BE SET AT THE TOP OF THE COMPACTED ITEM 304 - AGGREGATE BASE. THE LID SHALL BE SOLID WITHOUT HOLES. ONCE THE MANHOLE IS SET IN PLACE, AND PRIOR TO PAVING, THE CONTRACTOR SHALL SURVEY THE CENTER OF THE LID OF THE BURIED MANHOLE AND FURNISH THE GPS COORDINATES (EASTING, NORTHING) TO THE ENGINEER.

PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK DESCRIBED ABOVE AND WILL BE MADE AT THE UNIT PRICE BID FOR ITEM 611 - MANHOLE, NO. 3, AS PER PLAN B.

TEMPORARY DRAINAGE ITEMS

THE REQUIREMENTS OF ITEM 611.04BCD SHALL BE WAIVED FOR THE FOLLOWING TEMPORARY DRAINAGE ITEMS. IN ADDITION, ITEM 611 - 12" CONDUIT, TYPE B, AS PER PLAN SHALL BE BEDDED AND BACKFILLED SIMILAR TO SLOTTED DRAIN, TYPE 1 IN DM-1.3. TEMPORARY DRAINAGE ITEMS LABELED ON THE MAINTENANCE OF TRAFFIC PLANS ARE ITEMIZED ON THE MOT PLANS AND CARRIED TO THE GENERAL SUMMARY.

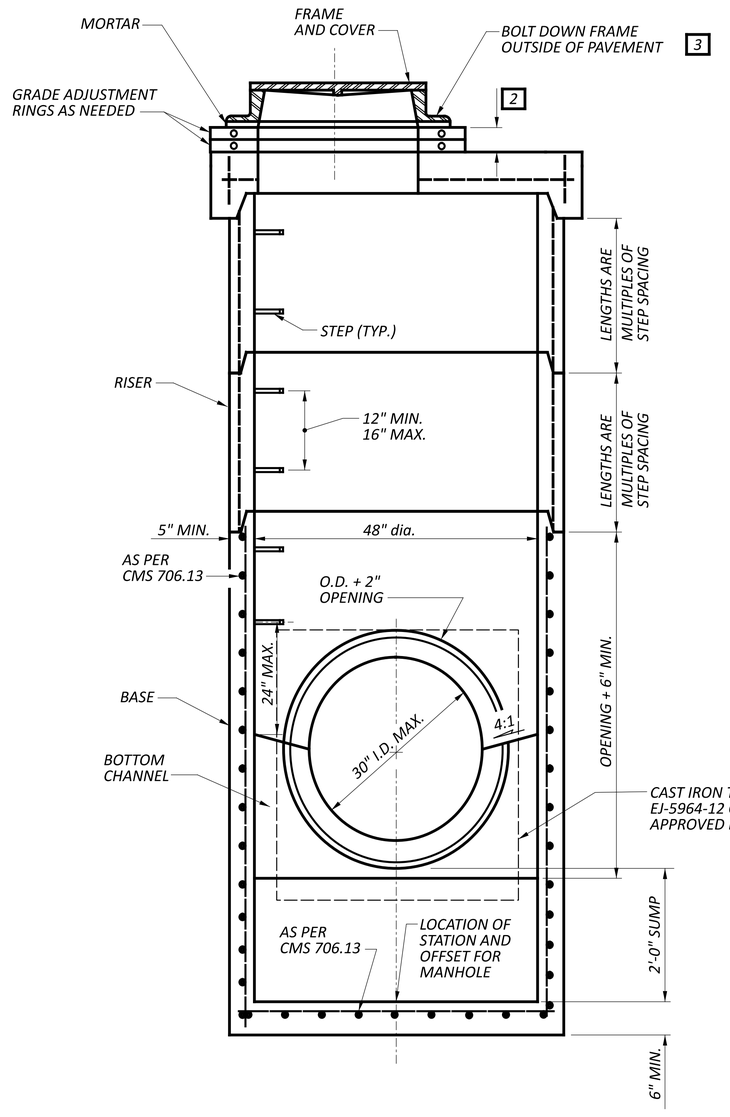
ITEM 611 - 12" CONDUIT, TYPE B, AS PER PLAN 37 FT

ITEM 611 - 12" CONDUIT, TYPE B, AS PER PLAN 1 EACH

TEMPORARY DRAINAGE REMOVAL SHALL INCLUDE REMOVING THE TEMPORARY CONDUIT AND THE TEMPORARY MANHOLE, FILLING AND PLUGGING THE TEMPORARY CONDUIT, ALL ASSOCIATED PAVEMENT REPAIR AND ANY RESTORATION OF THE SURROUNDING AREA TO THE ORIGINAL OR FINAL CONDITION. FOR ADDITIONAL REQUIREMENTS, SEE NOTES FOR ITEM 611 - 12"CONDUIT, TYPE B, AS PER PLAN AND ITEM 611 - MANHOLE, NO. 3, AS PER PLAN B.

ANY ADDITIONAL ITEMS OF WORK NOT SPECIFICALLY LISTED WHICH ARE REQUIRED TO CONSTRUCT OR REMOVE ANY TEMPORARY PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO AND INCLUDED IN THE LUMP SUM BID FOR ITEM 614 - MAINTAINING TRAFFIC.

1



ITEM 611 - MANHOLE, NO. 3, AS PER PLAN A

STA. 63+35, 119.45' RT.

1

1

1	10/13/25	ADDED TEMPORARY CONNECTION PROFILE/ NOTES/MANHOLE STA. REFERENCE/REVISE SHEET TITLE

DRAINAGE DETAILS - E. 14th ST. TEMPORARY CONNECTION/ DRAINAGE DETAILS - MANHOLE

DESIGN AGENCY

DESIGNER ALP

REVIEWER PRS 7-28-25

PROJECT ID 119380

SHEET P.179 TOTAL 365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/17/2025 TIME: 1:59:21 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@manniksmithgroup.com WORKSPACE: OHDOTCEv02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
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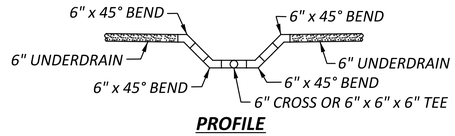
LEGEND

6" BASE PIPE UNDERDRAIN WITH GEOTEXTILE FABRIC, 707.33 OR 707.41 (18" NORMAL DEPTH)
OR
6" SHALLOW PIPE UNDERDRAIN WITH GEOTEXTILE FABRIC, 707.33 OR 707.41 (30" NORMAL DEPTH)
OR
6" UNCLASSIFIED PIPE UNDERDRAIN WITH GEOTEXTILE FABRIC, 707.33 OR 707.41, (VARIABLE DEPTH)
OR
6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS, 707.33 OR 707.41

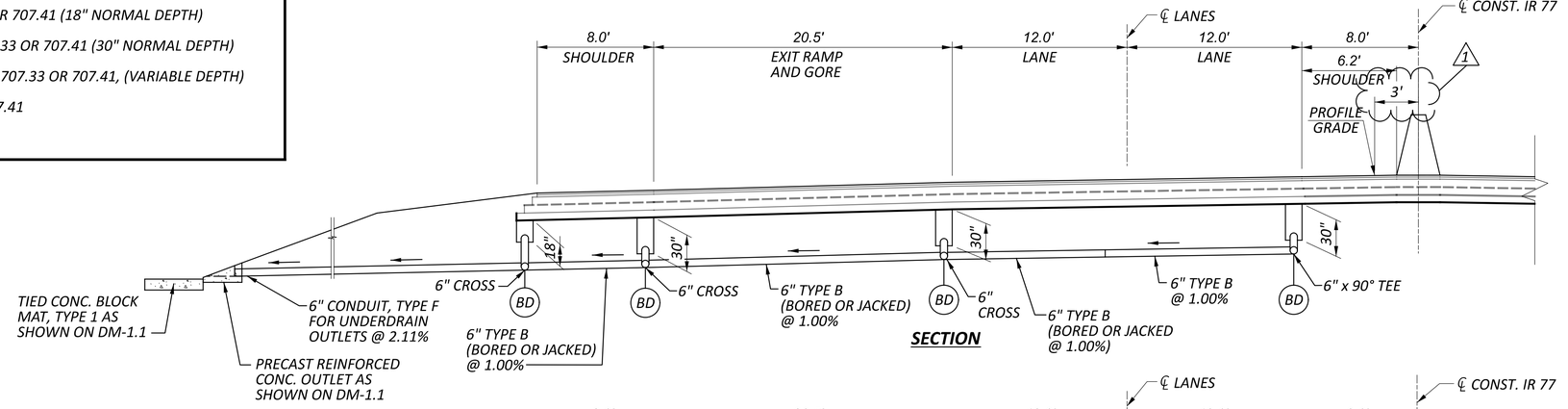
OUTLET PIPES, AS NOTED

LEGEND

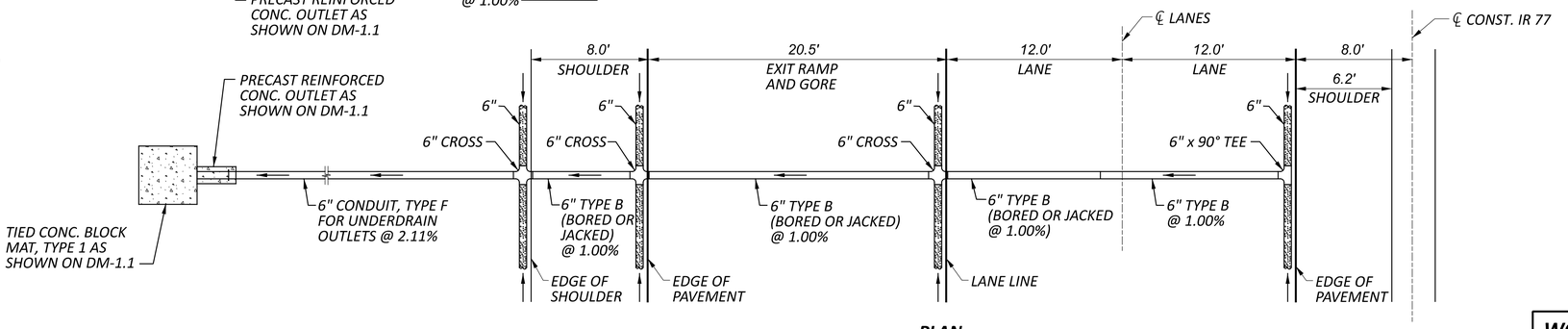
BD 6" x 45° BEND (SEE PROFILE)



PROFILE



SECTION

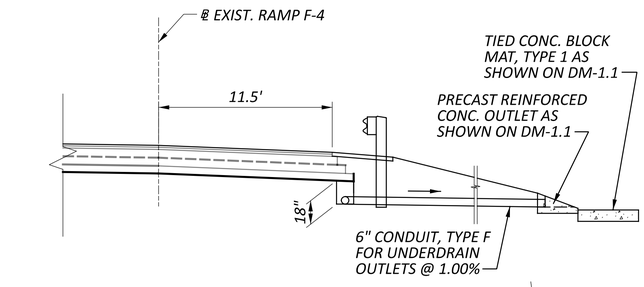


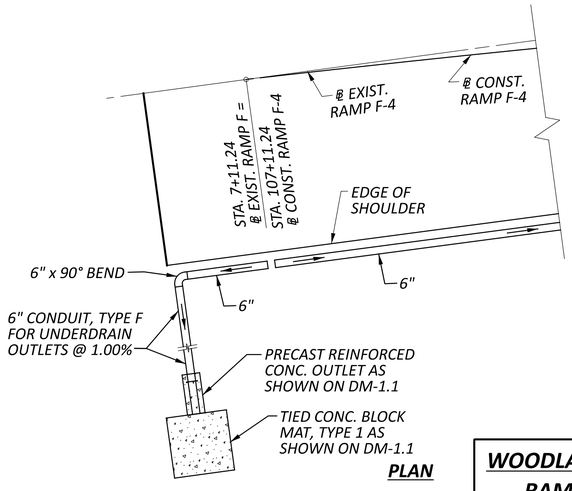
PLAN

1	10/13/25	REVERSE DIMENSIONS

WOODLAND AVE.
REAR LEFT

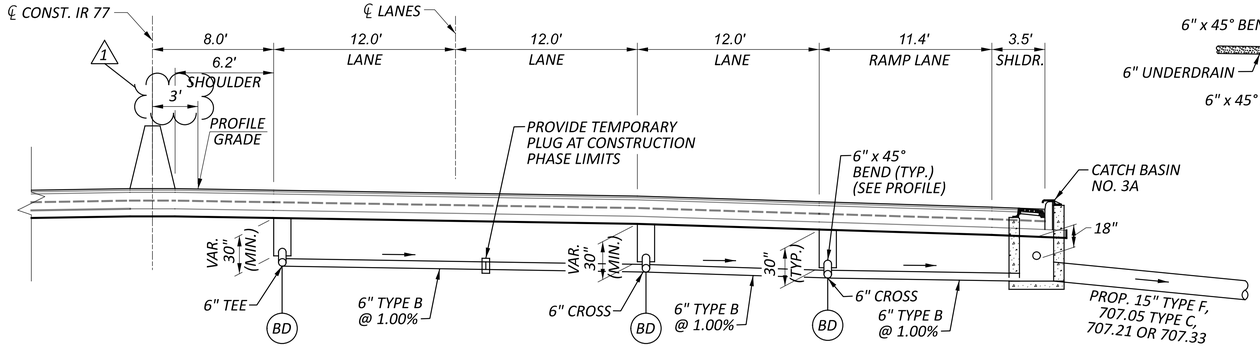
UNDERDRAIN DETAILS



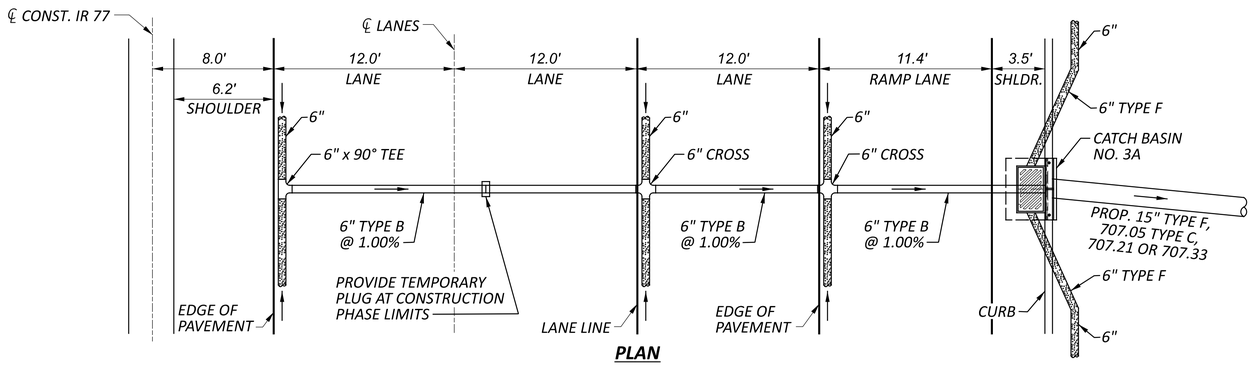


PLAN

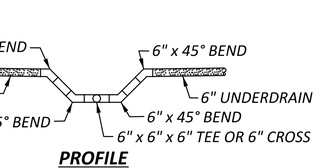
WOODLAND AVE.
RAMP F-4



SECTION



PLAN



PROFILE

LEGEND

BD 6" x 45° BEND (SEE PROFILE)

WOODLAND AVE.
REAR RIGHT

DESIGN AGENCY	
DESIGNER	ALP
REVIEWER	PRS 7-28-25
PROJECT ID	119380
SHEET	P.180
TOTAL	365

CUY-77-15.46

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/10/2025 TIME: 8:27:46 AM USER: SMorr
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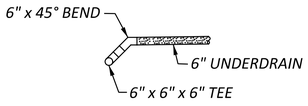
LEGEND

6" BASE PIPE UNDERDRAIN WITH GEOTEXTILE FABRIC, 707.33 OR 707.41 (18" NORMAL DEPTH)
OR
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OR
6" UNCLASSIFIED PIPE UNDERDRAIN WITH GEOTEXTILE FABRIC, 707.33 OR 707.41, (VARIABLE DEPTH)
OR
6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS, 707.33 OR 707.41

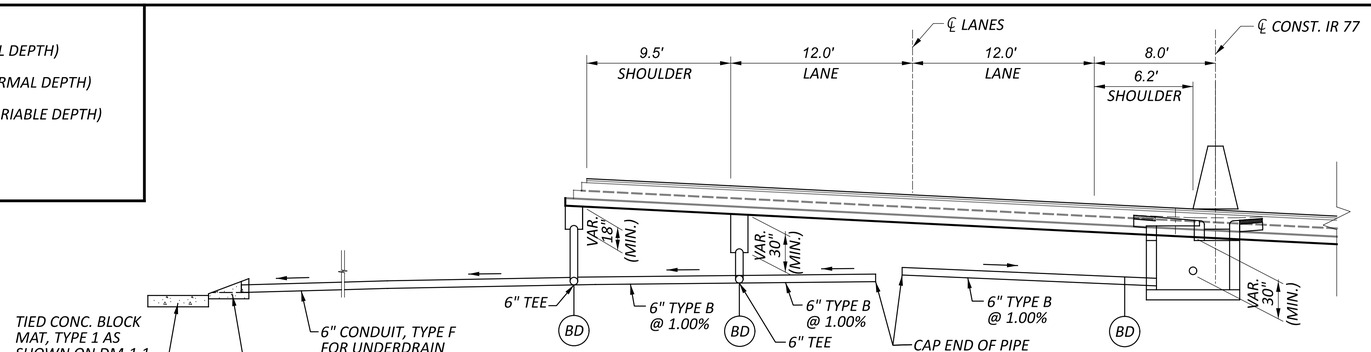
OUTLET PIPES, AS NOTED

LEGEND

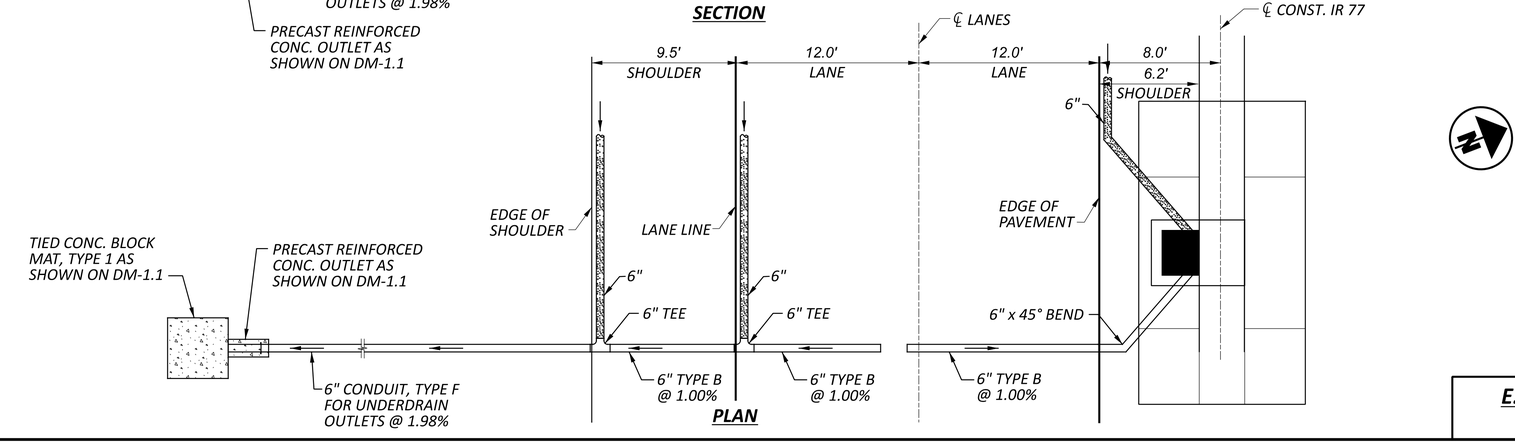
BD 6" x 45° BEND (SEE PROFILE)



PROFILE



SECTION

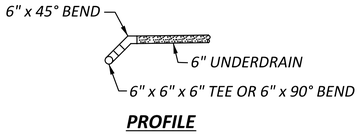


PLAN

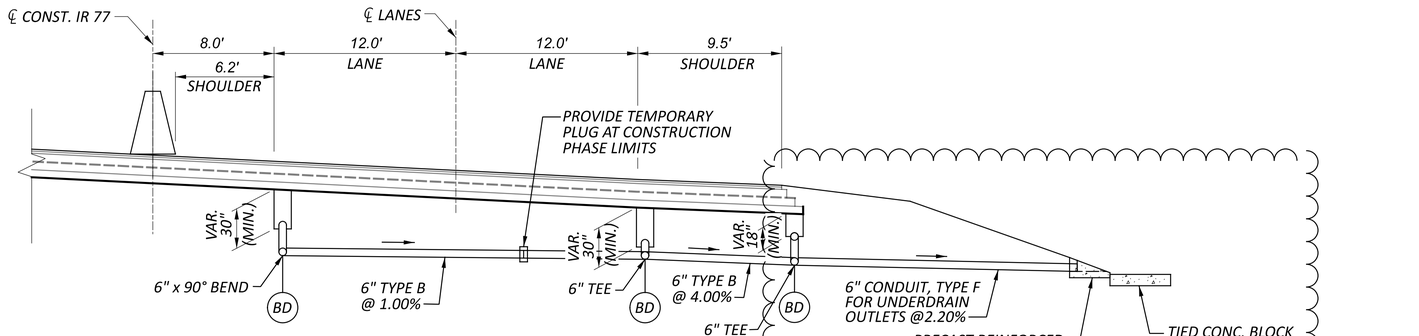
E. 14th ST.
REAR LEFT

LEGEND

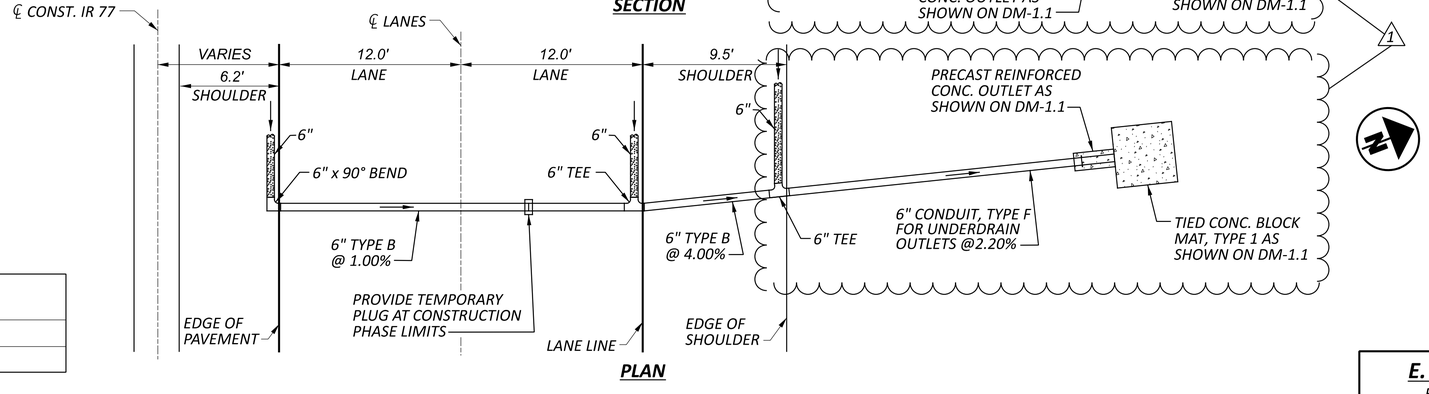
BD 6" x 45° BEND (SEE PROFILE)



PROFILE



SECTION



PLAN

E. 14th ST.
REAR RIGHT

1	10/13/25	REVISE UNDERDRAIN OUTLET SECTION AND PLAN

UNDERDRAIN DETAILS

DESIGN AGENCY

DESIGNER ALP

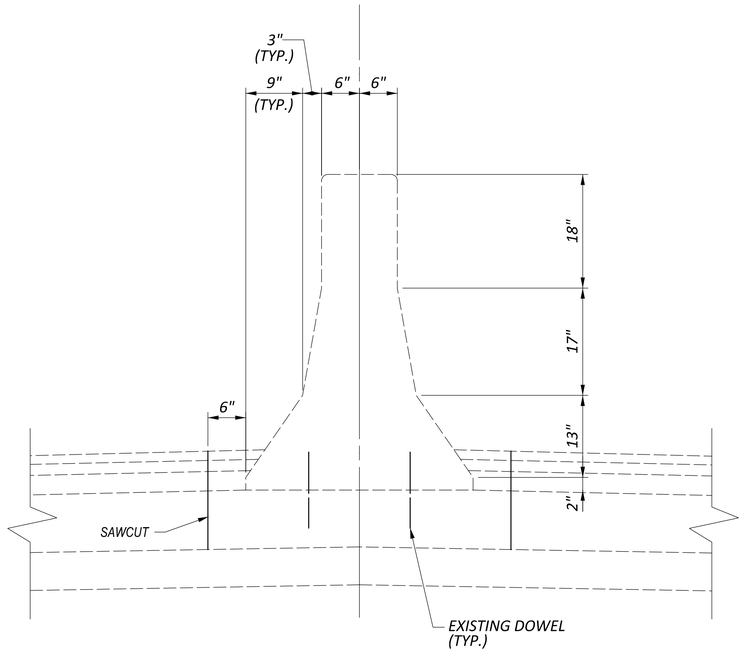
REVIEWER PRS 7-28-25

PROJECT ID 119380

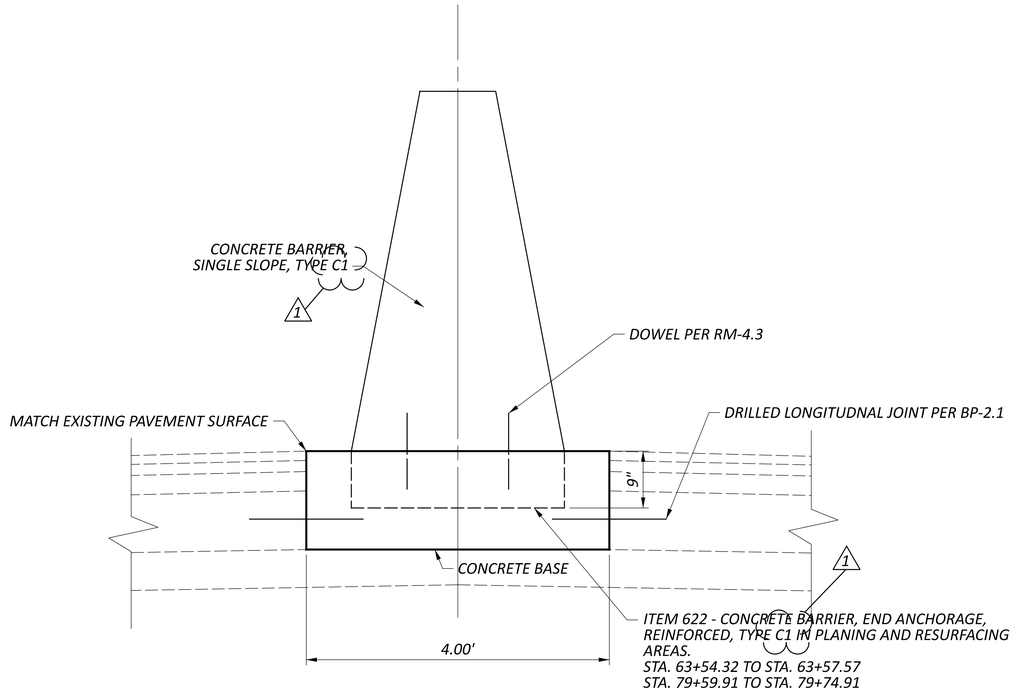
SHEET P.184 TOTAL 365

CUY-77-15.46

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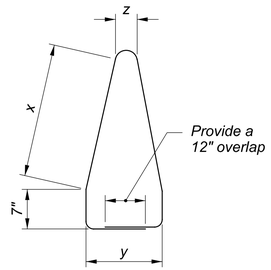


EXISTING BARRIER DETAIL



CONCRETE BASE DETAIL

Dimensions for Y401 (English)				
Barrier Type	x	y	z	Length
B1	44"	38"	22"	15'-6"



Y401 #4

Y401 STEEL LIST & BENDING DIAGRAM
REINFORCED END ANCHORAGE, AS PER PLAN

CONCRETE BASE

THIS WORK INCLUDES CONSTRUCTING AN UNREINFORCED CONCRETE BASE UNDER PROPOSED BARRIERS IN RESURFACING AREAS AS SHOWN IN THE DETAILS ON THIS SHEET. THE DEPTH OF THE BASE WILL MATCH THE BOTTOM OF THE EXISTING CONCRETE PAVEMENT AND THE TOP OF THE PROPOSED SURFACE COURSE, EXCEPT IN AREAS OF THE REINFORCED END ANCHORAGE AS SHOWN IN THE CONCRETE BASE DETAIL ON THIS SHEET.

PAYMENT FOR ALL WORK NECESSARY TO CONSTRUCT THE CONCRETE BASE WILL BE INCLUDED IN THE VARIOUS BARRIER ITEMS. THIS INCLUDES ALL MATERIALS, LABOR, EQUIPMENT, AND OTHER INCIDENTALS NECESSARY TO CONSTRUCT THE CONCRETE BASE.

ITEM 622 - CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1, AS PER PLAN

THIS WORK INCLUDES PLACING AN END ANCHORAGE ON A BARRIER MATCHING THE WIDTH OF THE BARRIER ON THE FORWARD APPROACH SLAB OF THE BRIDGE OVER EAST 14TH STREET. DETAILS ARE AS SHOWN IN RM-4.3 EXCEPT THE WIDTH OF THE BARRIER IS 14" WIDER THAN A STANDARD BARRIER AND THE Y401 STEEL IS AS SHOWN ON THE DETAIL ON THIS PAGE.

PAYMENT FOR ITEM 622 - CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1, AS PER PLAN WILL BE MADE AT THE UNIT PRICE BID PER EACH. THIS INCLUDES ALL MATERIALS, LABOR, EQUIPMENT, AND OTHER INCIDENTALS NECESSARY TO CONSTRUCT THIS ANCHOR.

CONCRETE BARRIER TRANSITIONS

THE CONCRETE BARRIER ON THE APPROACH SLABS IS 14" WIDER THAN A STANDARD SINGLE SLOPE BARRIER, TYPE C1. BARRIER SHALL TRANSITION FROM THE WIDTH ON THE APPROACH SLAB TO A STANDARD WIDTH IN 15' UNLESS SHOWN OTHERWISE ON THE PLANS.

PAYMENT FOR THE TRANSITIONS WILL BE AT THE UNIT PRICE BID FOR ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C1, PER LINEAR FOOT. THIS INCLUDES ALL MATERIALS, LABOR, EQUIPMENT, AND OTHER INCIDENTALS NECESSARY TO CONSTRUCT THE BARRIER TRANSITIONS, COMPLETE IN PLACE.

1	10/13/25	CHANGE BARRIER TYPE

CONCRETE BARRIER DETAILS - 1

DESIGN AGENCY

DESIGNER RJM

REVIEWER ALP 7-28-25

PROJECT ID 119380

SHEET P.187 TOTAL 365

CUY-77-15.46

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CUY-77-15.46

ES-22 BARRIER MOUNTED SIGN (TO REMAIN) (BK. TO BK.)

ES-23 OVERHEAD SIGN - STA. 76+52 (TO REMAIN)

ES-24 GROUND MOUNTED SIGN (TO REMAIN)

ES-25 OVERHEAD STRUCTURE MOUNTED SIGN (TO REMAIN)

ES-26 OVERHEAD SIGN (TO REMAIN)

ES-27 OVERHEAD STRUCTURE MOUNTED SIGN (TO REMAIN)

ES-28 STA. 2+17.4±, 53.5' ± LT. GROUND MOUNTED SIGN WITH SOLAR POWERED FLASHING LIGHTS (REMOVE AND REERECT AT STA. 2+17.0, 53.5' LT.)

ES-29 STA. 3+20.5±, 52.6' ± LT. GROUND MOUNTED SIGN WITH SOLAR POWERED FLASHING LIGHTS (REMOVE AND REERECT AT STA. 3+20.0, 52.5' LT.)

ES-30 GROUND MOUNTED SIGN WITH SOLAR POWERED FLASHING LIGHTS (TO REMAIN)

LEGEND

CONSTRUCTED WITH CCG3A

ORANGE AVE.

3 DELINEATORS @ 400' SPACING

MEDIAN BARRIER AND OVERHEAD SIGN CONSTRUCTED WITH CCG3A

℄ CONST. IR 77

+46.60±

+20.50±

STA. 78+39.60

79+00.00

2 DELINEATORS @ 200' SPACING

STA. 82+96.33 ℄ CONST. IR 77 = STA. 17+41.98 ℄ CONST. RAMP E-10

MATCH LINE STA. 72+50.00

℄ CONST. E. 22nd ST.

2 DELINEATORS @ 200' SPACING

2 DELINEATORS @ 400' SPACING

STA. 75+17.38 ℄ CONST. IR 77 = STA. 0+00.00 ℄ CONST. RAMP E-14 BEGIN RAMP MARKING

STA. 76+28.81 ℄ CONST. IR 77 = STA. 1+08.20 ℄ CONST. RAMP E-14

STA. 3+30.14 ℄ CONST. RAMP E-14 END RAMP MARKING MATCH EXISTING

℄ CONST. RAMP E-14

STA. 1+39.15

2 DELINEATORS @ 200' SPACING

STA. 81+00.00 ℄ CONST. IR 77 = STA. 0+00.00 ℄ CONST. RAMP E-17 BEGIN RAMP MARKING

℄ CONST. E. 14th ST.

RAMP E-14

℄ CONST. RAMP E-10

℄ CONST. RAMP E-17

MATCH LINE STA. 4+00.00

STA. 73+49.8±, 57.4'± RT. — OM-3R-12 STA. 73+50.0, 60.0' RT. — S-8

STA. 73+61.3±, ℄ — OM-3L-12 STA. 73+61.0, ℄ — S-9

STA. 76+67.9±, 64.6'± RT. — W13-1P-30 STA. 76+68.0, 67.6' RT. — S-10

STA. 75+77.6±, ℄ — OM-3L-12 STA. 75+78.0, ℄ — S-11

STA. 75+87.6±, 57.8'± LT. — OM-3R-12 STA. 75+88.0, 60.0' LT. — S-12

STA. 80+26.7±, 48.1'± RT. — OM-3R-12 STA. 80+27.0, 46.2' RT. — S-13

STA. 80+46.5±, ℄ — OM-3L-12 STA. 80+46.0, ℄ — S-14

STA. 82+45.5, ℄ BACK TO BACK — D10-5-18 STA. 82+45.0, ℄ BACK TO BACK — S-15

STA. 82+25.1±, 45.5'± LT. — OM-3R-12 STA. 82+25.0, 46.0' LT. — S-16

CROSS REFERENCES	
7-16	TYPICAL SECTIONS
142	PLAN AND PROFILE
145-160	CROSS SECTIONS
193	SIGNING LEGEND
193	PAVEMENT MARKING LEGEND
193	RAISED PAVEMENT MARKER (RPM) LEGEND
193	DELINEATOR LEGEND
193	RUMBLE STRIP LEGEND

1	10/13/25	REVISE EX. UD

HORIZONTAL SCALE IN FEET
0 25 50 100

IR 77 TRAFFIC CONTROL PLAN
STA. 72+50.00 TO STA. 81+00.00/STA. 0+00.00 TO STA. 4+00.00

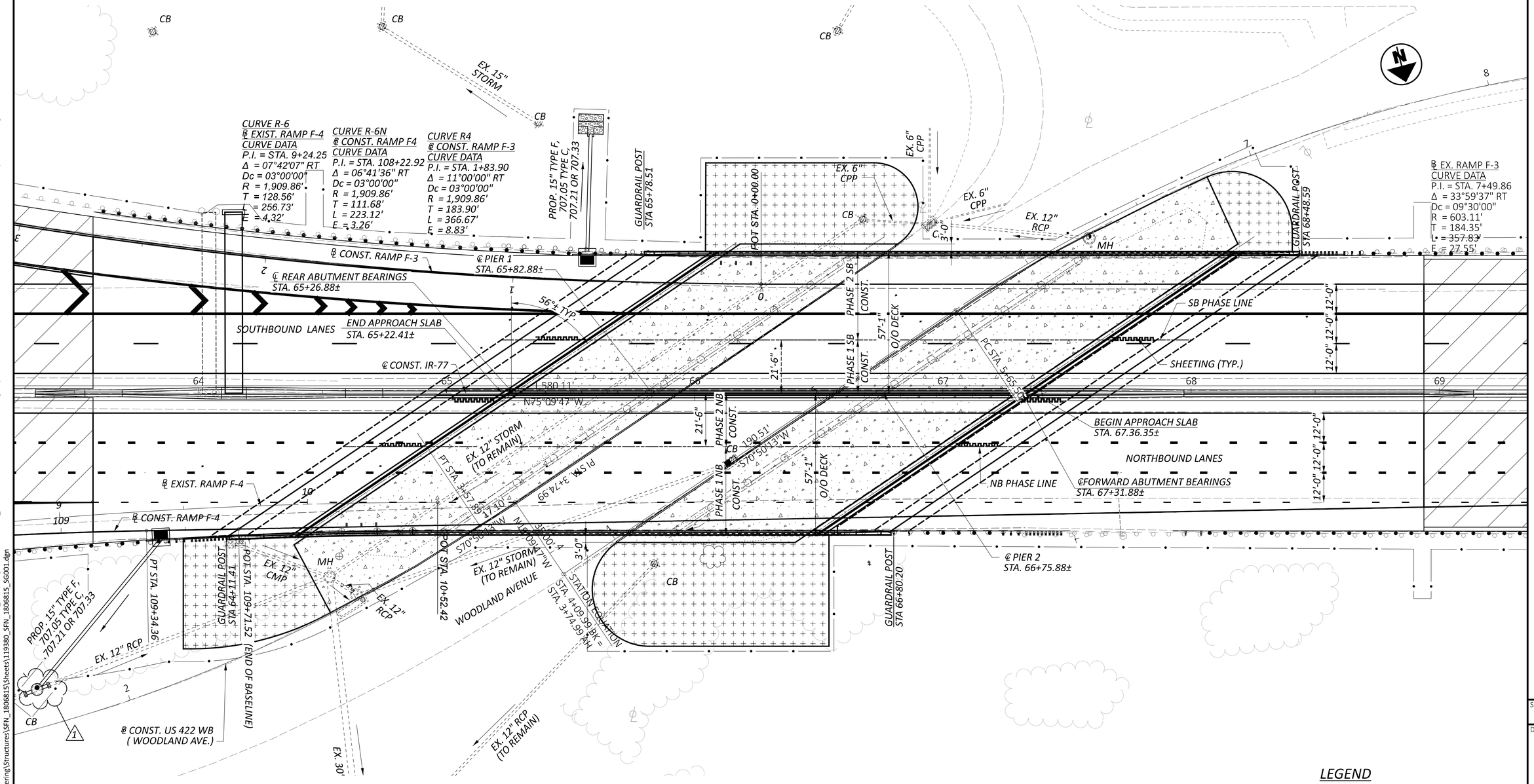
DESIGN AGENCY

DESIGNER RJM

REVIEWER TJF 7-28-25

PROJECT ID 119380

SHEET P.198 TOTAL 365



GENERAL PLAN

LEGEND

- CONCRETE SLOPE PROTECTION
- EROSION CONTROL
- PLANNING AND RESURFACING

1	10/13/25	CHANGE CB TO MH

GENERAL PLAN
BRIDGE NO. CUY-77-15.46
IR 77 OVER WOODLAND AVE.

SFN 1806815

DESIGN AGENCY

DESIGNER	CHECKER
BLN	DHT

REVIEWER: DLR 08/04/25

PROJECT ID: 119380

SUBSET	TOTAL
2	57

SHEET	TOTAL
P.218	365

CUY-77-15.46/VAR

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ITEM 514 – SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL, AS PER PLAN

ITEM 514 – FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT, AS PER PLAN

ITEM 514 – FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT, AS PER PLAN

ITEM 514 – FIELD PAINTING STRUCTURAL STEEL, FINISH COAT, AS PER PLAN

PREPARE THE SURFACE AND PAINT ALL THREE COATS ON THE LAST 10 FEET OF EACH BEAM/GIRDER END ADJACENT TO THE ABUTMENTS, INCLUDING ALL CROSSFRAMES AND OTHER STEEL FRAMING WITHIN THESE LIMITS. PREPARE THE SURFACE AND PAINT ALL THREE COATS ON THE FULL LENGTH OF BEAM/GIRDER FLANGE EDGES PREVIOUSLY EMBEDDED IN EXISTING DECK HAUNCHES. THE USE OF WIRE WHEELS, ROLLERS, AND/OR BRUSHES WILL BE PERMITTED FOR THE HAND PAINTING OF BEAM/GIRDER FLANGE EDGES.

1

PAINT THE INTERMEDIATE AND FINISH COAT FOR ALL NEW STRUCTURAL STEEL MEMBERS INCLUDING THE BOLTED COVER PLATES RETROFITS, REPLACED END CROSSFRAMES, SEISMIC RETROFITS AND REPLACEMENT CROSSFRAMES.

THE PRIME COAT SHALL BE 708.01. THE FINISH COAT COLOR SHALL ATTEMPT TO MATCH THE EXISTING PAINT COLOR.

ITEM 516 – JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN

THIS WORK CONSISTS OF RAISING OR RE-POSITIONING EXISTING STRUCTURES TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANS FOR THE PURPOSE OF REPLACING THE ABUTMENT BEARINGS WITH NO CHANGE TO THE VERTICAL POSITION OF THE EXISTING STRUCTURAL STEEL FRAMING. SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH C&MS 501.05. IF, DURING THE JACKING OPERATIONS, CRACKING OF THE CONCRETE SUPERSTRUCTURE, SEPARATION OF THE CONCRETE DECK FROM THE STEEL STRINGERS, OR OTHER DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. EPOXY INJECT ALL BEAMS THAT SEPARATE FROM THE DECK FOR THE DISTANCE OF THE SEPARATION IN ACCORDANCE WITH C&MS 512.07. THE DEPARTMENT WILL NOT PAY FOR THE COST OF THIS EPOXY INJECTION OR OTHER REQUIRED REPAIRS. THE BRIDGE BEARINGS SHALL BE FULLY SEATED AT ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON BEARINGS. THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPER-STRUCTURE, AS PER PLAN.

ITEM 526 – REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN

THIS WORK INCLUDES CONSTRUCTION OF THE REINFORCED CONCRETE APPROACH SLABS AS SHOWN IN THE PLANS AND AS SHOWN IN ODOT STANDARD CONSTRUCTION DRAWINGS AS-1-15 AND AS-2-15 WITH THE FOLLOWING ADDITION.
THIS ITEM SHALL ALSO INCLUDES ALL MATERIAL, LABOR, AND INCIDENTALS NECESSARY TO INSTALL THE 4" THICK POLYSTYRENE BETWEEN THE TOP OF THE WINGWALLS AND THE BOTTOM OF THE APPROACH SLABS AS SHOWN IN THE PLANS.

DECK PLACEMENT DESIGN ASSUMPTIONS:

THE FOLLOWING ASSUMPTIONS OF CONSTRUCTION MEANS AND METHODS WERE MADE FOR THE ANALYSIS AND DESIGN OF THE SUPERSTRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE FALSEWORK SUPPORT SYSTEM WITHIN THESE PARAMETERS AND WILL ASSUME RESPONSIBILITY FOR SUPER-STRUCTURE ANALYSIS FOR DEVIATION FROM THESE DESIGN ASSUMPTIONS.

AN EIGHT WHEEL FINISHING MACHINE WITH A MAXIMUM WHEEL LOAD OF 2.2 KIPS.

A MINIMUM OUT-TO-OUT WHEEL SPACING AT EACH END OF THE MACHINE OF 103".

A MAXIMUM SPACING OF OVERHANG FALSEWORK BRACKETS OF 48 IN.

A MAXIMUM DISTANCE FROM THE CENTERLINE OF THE FASCIA GIRDER TO THE FACE OF THE SAFETY HANDRAIL OF 65".

ABBREVIATIONS

ABUT.	- ABUTMENT
ADT	- AVERAGE DAILY TRAFFIC
ADTT	- AVERAGE DAILY TRUCK TRAFFIC
APPR.	- APPROACH
B	- BOTTOM
℄	- BASELINE
B.F.	- BACK FACE
BM	- BENCHMARK
BOT./BOTT./BTM.	- BOTTOM
BRG.	- BEARING
℄	- CENTERLINE
C/C	- CENTER TO CENTER
C.I.P.	- CAST-IN-PLACE
C.J.	- CONSTRUCTION JOINT
CLR./CL.	- CLEAR
C&MS OR CMS	- CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONC.	- CONCRETE
CONSTR./CONST.	- CONSTRUCTION
CVN	- CHARPY V-NOTCH
DIA.	- DIAMETER
DIM.	- DIMENSION
DND	- DO NOT DISTURB
DWG.	- DRAWING
E	- EAST
EB	- EASTBOUND
E.F.	- EACH FACE
EL. OR ELEV.	- ELEVATION
EOP	- EDGE OF PAVEMENT
EQ.	- EQUAL
EST.	- ESTIMATED
EX.	- EXISTING
EXP.	- EXPANSION
F.A.	- FORWARD ABUTMENT
F/F	- FACE TO FACE
F.F.	- FRONT FACE
F.S.	- FIELD SPLICE
FT.	- FOOT OR FEET
FWD.	- FORWARD
FWS	- FUTURE WEARING SURFACE
GBL	- GRADE BREAK LINE
HMWM	- HIGH MOLECULAR WEIGHT METHACRYLATE
HW	- HIGH WATER
IN.	- INCH
JT.	- JOINT
L.F.	- LEFT FORWARD
LT.	- LEFT
LTBR	- LEFT TOE BRIDGE RAILING
MAX.	- MAXIMUM
MIN.	- MINIMUM
MISC.	- MISCELLANEOUS
N	- NORTH
NB	- NORTHBOUND
NO.	- NUMBER
N.P.C.P.P.	- NON-PERFORATED
OHWM	- ORDINARY HIGH WATER
O/O	- OUT TO OUT
PB	- PORTABLE BARRIER
PCB	- PORTABLE CONCRETE BARRIER
P.C.P.P.	- PERFORATED
P.E.J.F.	- PREFORMED EXPANSION JOINT FILLER
PG	- PROFILE GRADE
PROP.	- PROPOSED
PRV'D	- PROVIDED
PSF	- POUNDS PER SQUARE FOOT
P.V.I.	- POINT OF VERTICAL INTERSECTION
Q	- FLOW RATE
R	- RADIUS
R.A.	- REAR ABUTMENT
RCP	- ROCK CHANNEL PROTECTION
REQD.	- REQUIRED
R.F.	- RIGHT FORWARD
R.R.	- RAILROAD
RT.	- RIGHT
RTBR	- RIGHT TOE BRIDGE RAILING
R/W	- RIGHT OF WAY
S	- SOUTH
SB	- SOUTHBOUND
SER.	- SERIES
SHLDR	- SHOULDER
SIP	- STAY IN PLACE
SLPR.	- SLEEPER
SPA.	- SPACE OR SPACES
STA.	- STATION
STD.	- STANDARD
STR	- STRAIGHT
T	- TOP
T&B	- TOP & BOTTOM
TBR	- TO BE REMOVED
TEMP.	- TEMPORARY
T.O.S. OR T/S	- TOP OF SLOPE
T/T -	- TOE TO TOE
TYP.	- TYPICAL
U.N.O.	- UNLESS NOTED OTHERWISE
VAR.	- VARIES
V	- VELOCITY
W	- WEST
WB	- WESTBOUND
WP	- WORK POINT
WWR	- WELDED WIRE REINFORCEMENT

1	10/13/25	REVISE NOTE

GENERAL NOTES - 2
BRIDGE NO. CUY-77-15.46
IR 77 OVER WOODLAND AVE.

SFN 1806815
DESIGN AGENCY
DESIGNER BLN | CHECKER DHT
REVIEWER DLR 08/04/25
PROJECT ID 119380
SUBSET 4 | TOTAL 57
SHEET P.220 | TOTAL 365

CUY-77-15.46/VAR

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/9/2025 TIME: 7:49:46 AM USER: RBrokaw
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ESTIMATED QUANTITIES

CALCULATED RWC DATED 6/25
CHECKED DHT DATED 6/25

FUNDING PARTICIPATION 01/IMS	ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	SUPERSTR.	ABUTS.	PIER	GEN'L	SEE SHEET
LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN					3/57
400	202	22900	400	SY	APPROACH SLAB REMOVED				400	
400	202	23500	400	SY	WEARING COURSE REMOVED				400	
LS	503	11101	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN					3/57
485	503	21100	485	CY	UNCLASSIFIED EXCAVATION				485	
264,343	509	10000	264,343	LB	EPOXY COATED STEEL REINFORCEMENT	229,965	34,378			
100	509	20001	100	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN				100	3/57
13,512	509	30020	13,512	FT	NO. 4 DEFORMED GFRP REINFORCEMENT	13,512				
1,721	510	10001	1,721	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN		1,721			3/57
671	511	34446	671	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK	671				
199	511	34450	199	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)	199				
229	511	45712	229	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT		229			
1,349	512	10100	1,349	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	942	407			
2,554	512	10400	2,554	SY	TREATING OF CONCRETE BRIDGE DECK WITH SRS		2,554			
145	512	33000	145	SY	TYPE 2 WATERPROOFING		145			
2,554	512	73500	2,554	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN		2,554			
13,250	513	10221	13,250	LB	STRUCTURAL STEEL MEMBERS, LEVEL 1, AS PER PLAN (BOLTED COVER PLATE RETROFITS)	13,250				3/57
10,592	513	20000	10,592	EACH	WELDED STUD SHEAR CONNECTORS	10,592				
17,467	513	21500	17,467	LB	REPLACEMENT OF DETERIORATED END CROSSFRAMES	17,467				
843	513	90000	843	LB	STRUCTURAL STEEL, MISC.: CROSS FRAMES (SEISMIC RETROFIT)	843				27/57
2,496	514	00051	2,496	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL, AS PER PLAN	2,496				4/57
2,496	514	00057	2,496	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT, AS PER PLAN	2,496				4/57
3,463	514	00061	3,463	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT, AS PER PLAN	3,463				4/57
3,463	514	00067	3,463	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT, AS PER PLAN	3,463				4/57
406	516	11210	406	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL	406				
18	516	13200	18	SF	1/2" PREFORMED EXPANSION JOINT FILLER		18			
81	516	13600	81	SF	1" PREFORMED EXPANSION JOINT FILLER		81			
22	516	13900	22	SF	2" PREFORMED EXPANSION JOINT FILLER		22			
16	516	44001	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (1.875"X8½"X11" PAD AND 1.5"X9½"X13" PLATE), AS PER PLAN	16				26/57
16	516	44101	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (2.933"X1'-1"X1'-1" PAD AND 1.5"X14"X18" TOP PLATE, 1.5"X17"X18" BOTTOM PLATE), AS PER PLAN	16				26/57
LS	516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN					4/57
222	518	21200	222	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC		222			
395	518	40000	395	FT	6" PERFORATED CORRUGATED PLASTIC PIPE		395			
40	518	40010	40	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS		40			
256	SPECIAL	51900100	256	SF	COMPOSITE FIBER WRAP SYSTEM			256		25/57
638	526	25011	638	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN				638	4/57
230	526	90010	230	FT	TYPE A INSTALLATION				230	
8	625	33000	8	EACH	STRUCTURE GROUNDING SYSTEM				8	

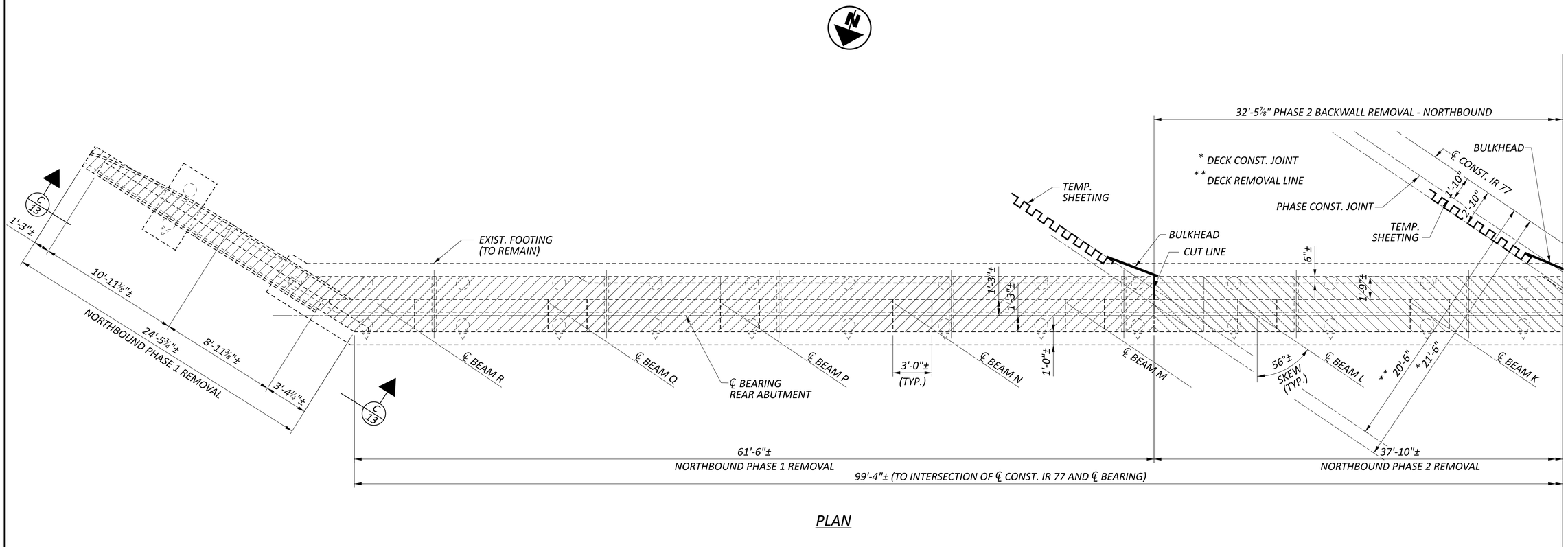
1	10/13/25	MOVE QUANTITY, FIX SHEET REFERENCE

ESTIMATED QUANTITIES
BRIDGE NO. CUY-77-15.46
IR 77 OVER WOODLAND AVE.

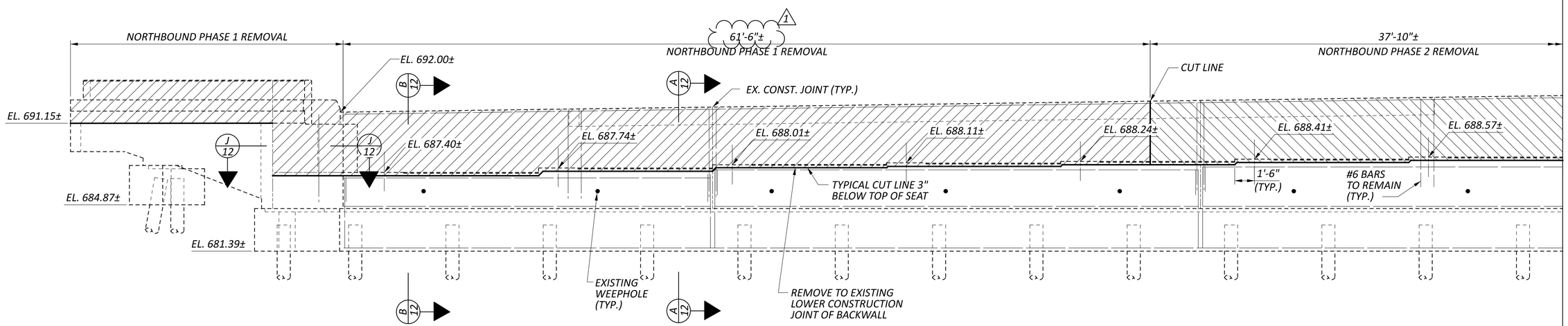
SFN 1806815
DESIGN AGENCY
DESIGNER BLN | CHECKER DHT
REVIEWER DLR 08/04/25
PROJECT ID 119380
SUBSET 5 | TOTAL 57
SHEET P.221 | TOTAL 365

CUY-77-15.46/VAR

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PLAN



ELEVATION

LEGEND

PHASE 1 REMOVAL LIMITS

PHASE 2 REMOVAL LIMITS

1	10/13/25	REVISE DIMENSION

REAR ABUTMENT REMOVAL - 1
BRIDGE NO. CUY-77-15.46
IR 77 OVER WOODLAND AVE.

CUY-77-15.46/VAR

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/9/2025 TIME: 8:28:11 AM USER: RBrokaw
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SFN 1806815

DESIGN AGENCY

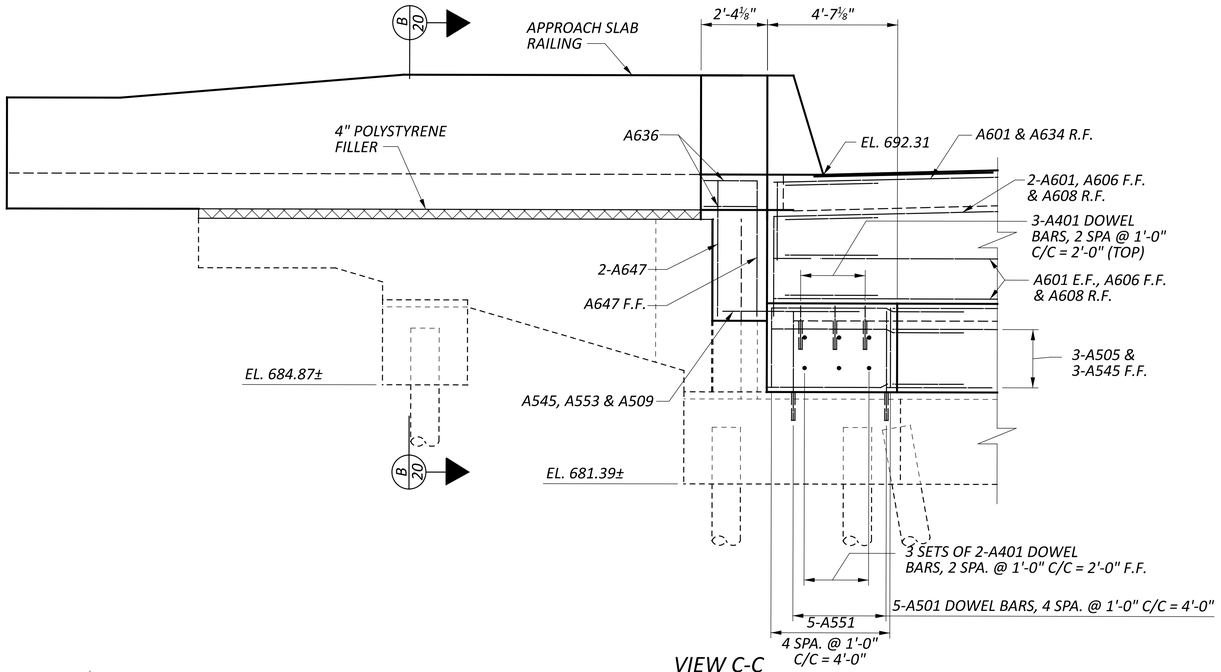
DESIGNER BLN | CHECKER DHT

REVIEWER DLR 08/04/25

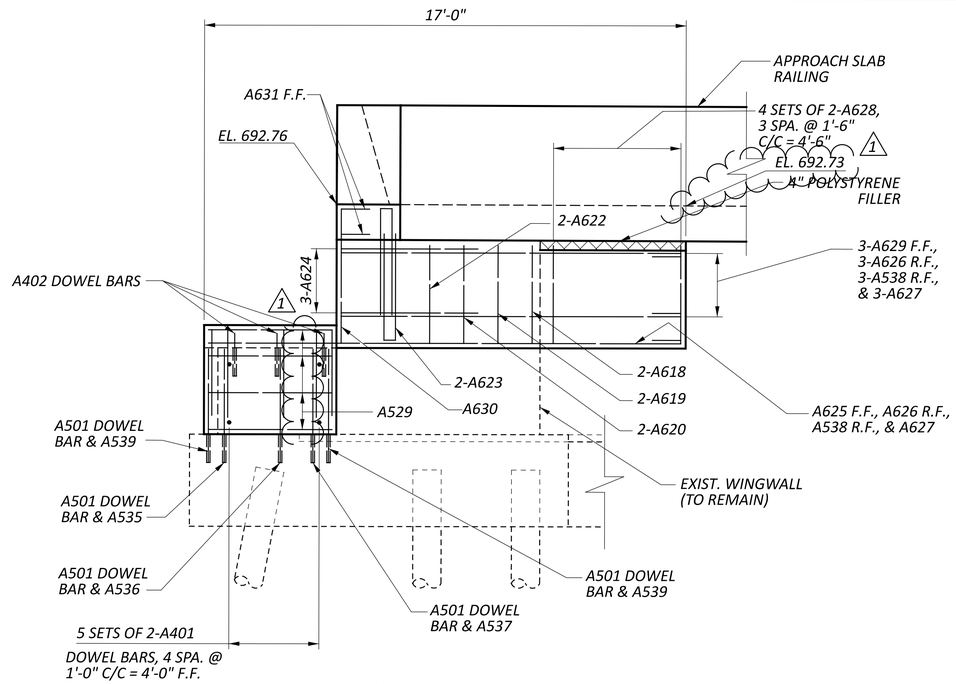
PROJECT ID 119380

SUBSET 8 | TOTAL 57

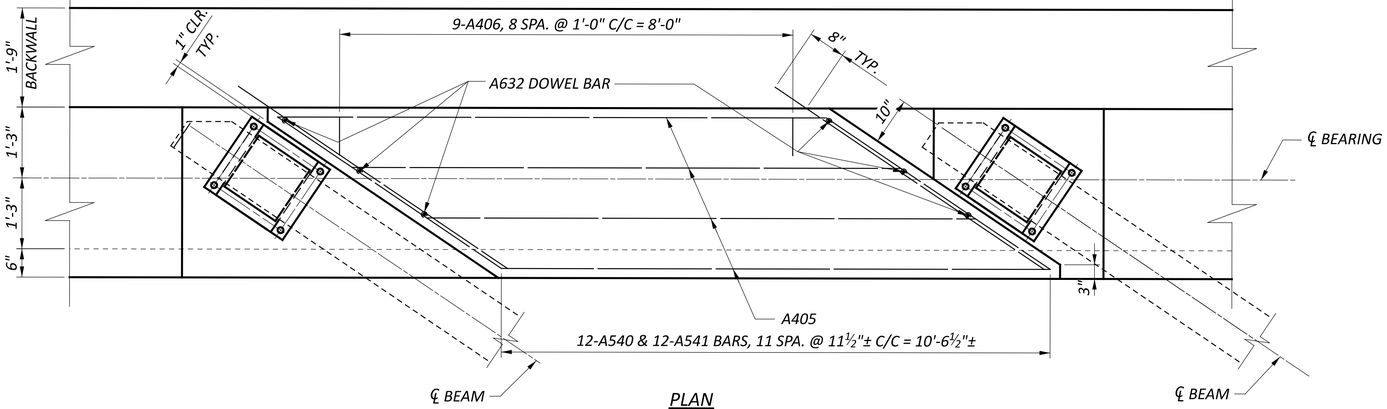
SHEET P.224 | TOTAL 365



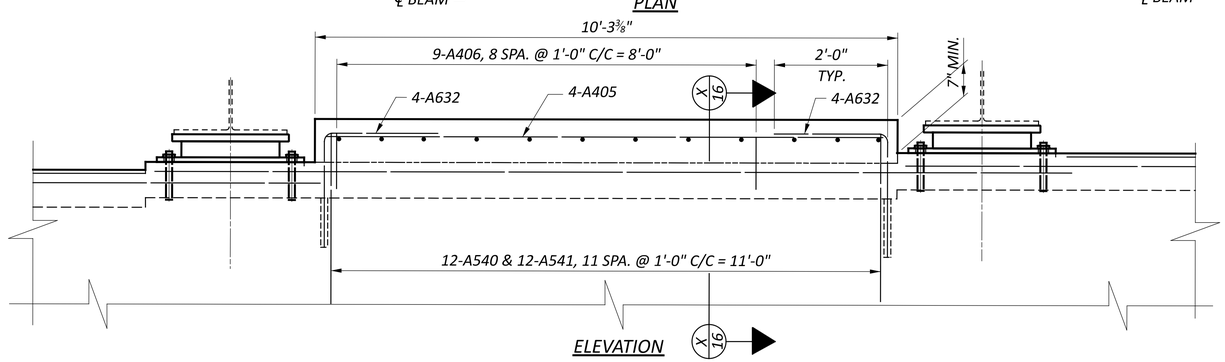
VIEW C-C



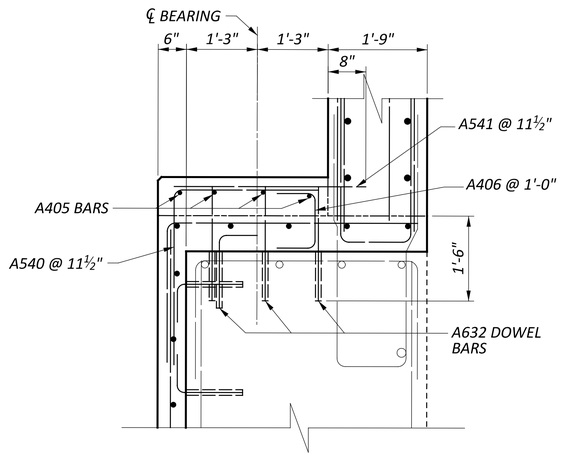
VIEW D-D



PLAN



ELEVATION



SECTION X-X

SEISMIC PEDESTAL DETAILS
(REAR AND FORWARD ABUTMENTS)

1	10/13/25	ALIGN ARROWHEADS, ADD ELEVATION

NOTES

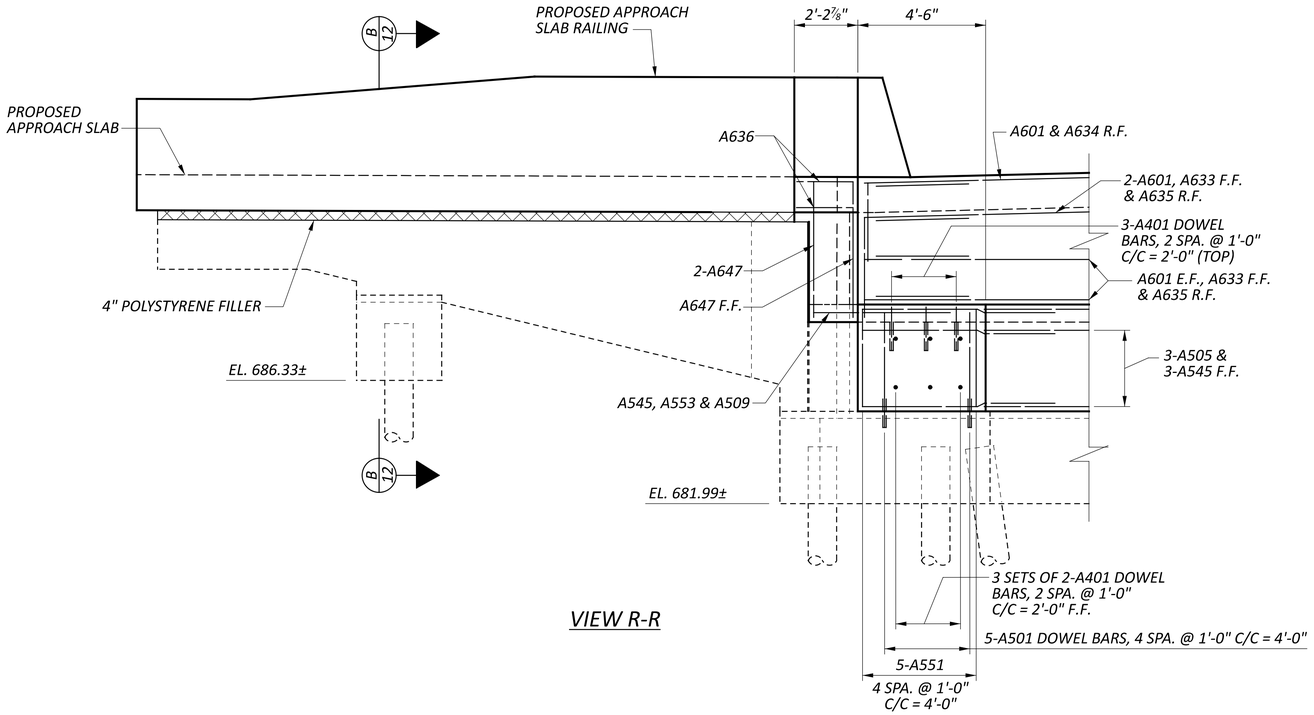
1. NOTATION: F.F. - FRONT FACE
   R.F. - REAR FACE
2. VIEWS C-C & D-D FOR LOCATION SEE SHEETS 14 AND 15 OF 57.
3. SEISMIC PEDESTALS: FOR LOCATIONS SEE SHEETS 14, 15, 17, AND 18 OF 57.

REAR ABUTMENT DETAILS AND SEISMIC PEDESTAL DETAILS
BRIDGE NO. CUY-77-15.46
IR 77 OVER WOODLAND AVE.

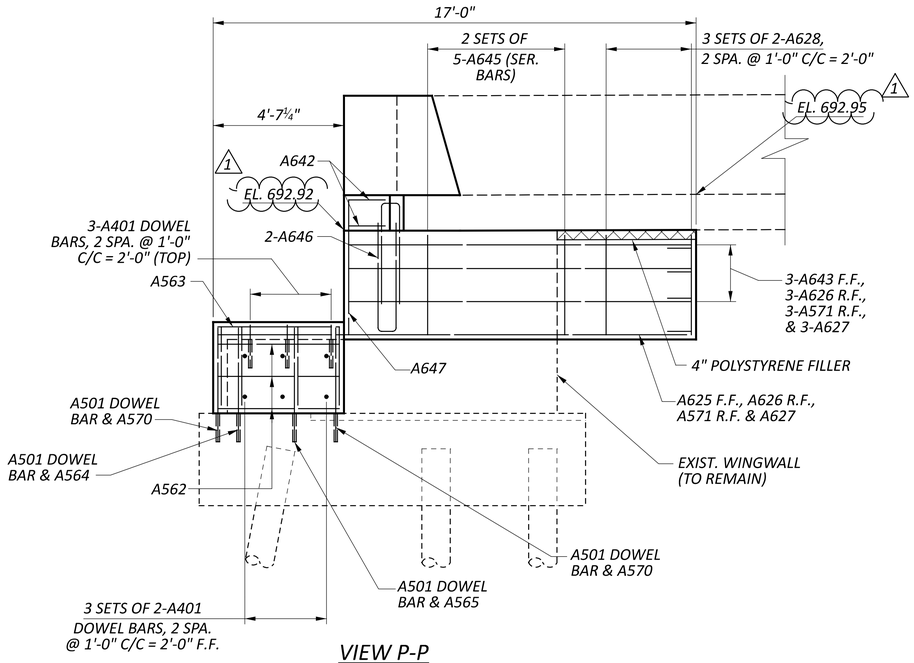
SFN 1806815
DESIGN AGENCY
DESIGNER BLN | CHECKER DHT
REVIEWER DLR 08/04/25
PROJECT ID 119380
SUBSET 16 | TOTAL 57
SHEET P.232 | TOTAL 365

CUY-77-15.46/VAR

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VIEW R-R



VIEW P-P

1	10/13/25	ADD ELEVATIONS

NOTES

1. NOTATION: F.F. - FRONT FACE
   R.F. - REAR FACE
2. VIEW P-P: FOR LOCATION SEE SHEET 18 OF 57.
3. VIEW R-R: FOR LOCATION SEE SHEET 17 OF 57.

FORWARD ABUTMENT DETAILS
BRIDGE NO. CUY-77-15.46
IR 77 OVER WOODLAND AVE.

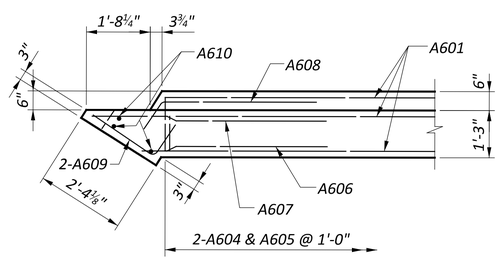
SFN 1806815

DESIGN AGENCY

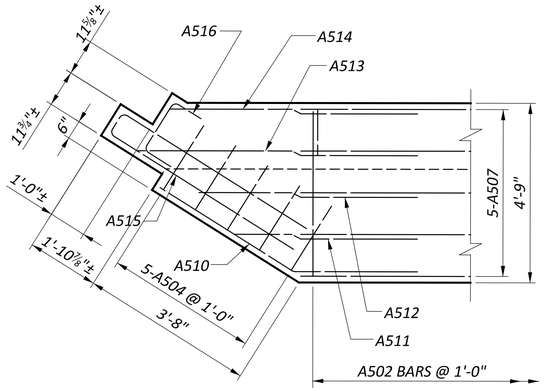
DESIGNER BLN | CHECKER DHT
REVIEWER DLR 08/04/25
PROJECT ID 119380
SUBSET 19 | TOTAL 57
SHEET P.235 | TOTAL 365

CUY-77-15.46/VAR

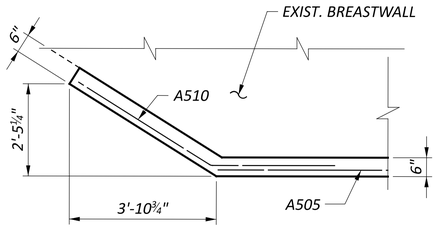
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AT TOP OF BACKWALL



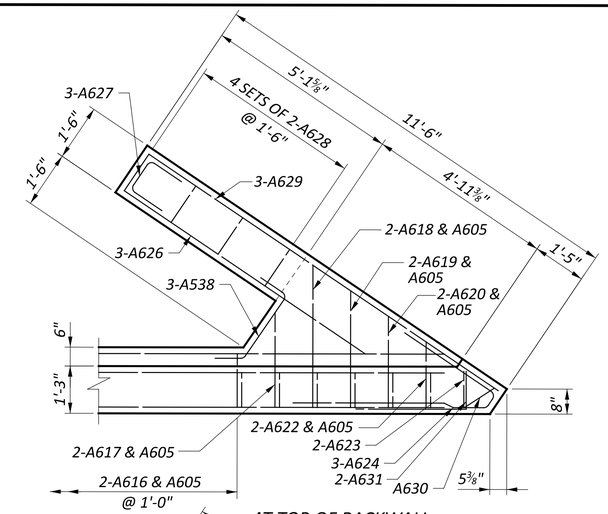
AT SEAT LEVEL



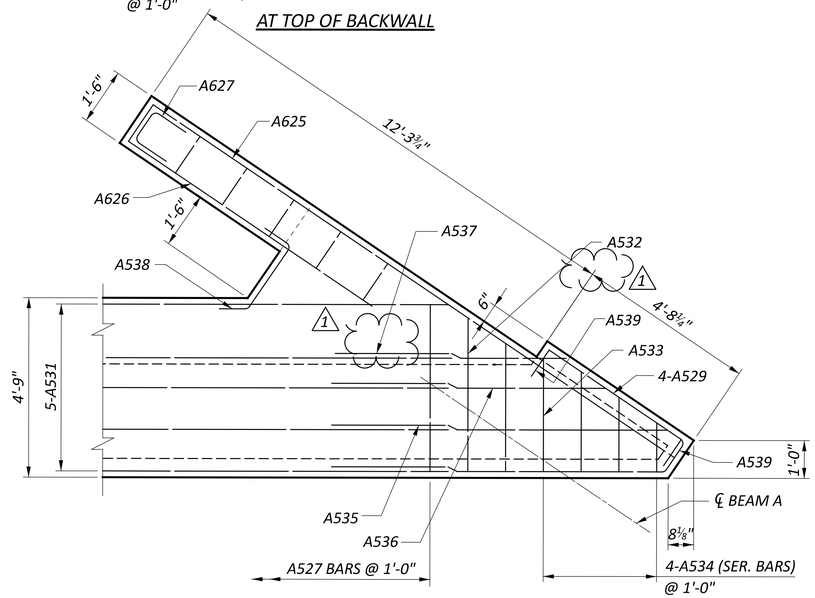
THROUGH BREASTWALL

SECTION J-J

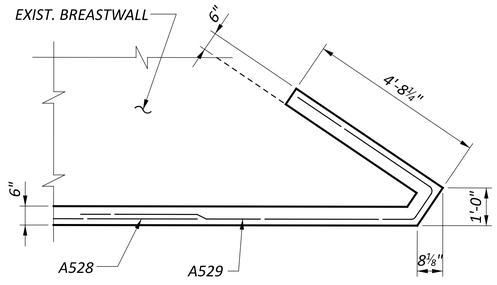
REAR ABUTMENT NORTHBOUND



AT TOP OF BACKWALL



AT SEAT LEVEL



THROUGH BREASTWALL

SECTION K-K

REAR ABUTMENT SOUTHBOUND

1	10/13/25	FIXED LEADER LOCATION, ALIGNED DIMENSIONS

NOTES

1. NOTATION: F.F. - FRONT FACE
   R.F. - REAR FACE
2. SECTION J-J: FOR LOCATION SEE SHEET 14 OF 57.
3. SECTION K-K: FOR LOCATION SEE SHEET 15 OF 57.

REAR ABUTMENT SECTIONS
BRIDGE NO. CUY-77-15.46
IR 77 OVER WOODLAND AVE.

SFN 1806815
DESIGN AGENCY

DESIGNER	CHECKER
BLN	DHT

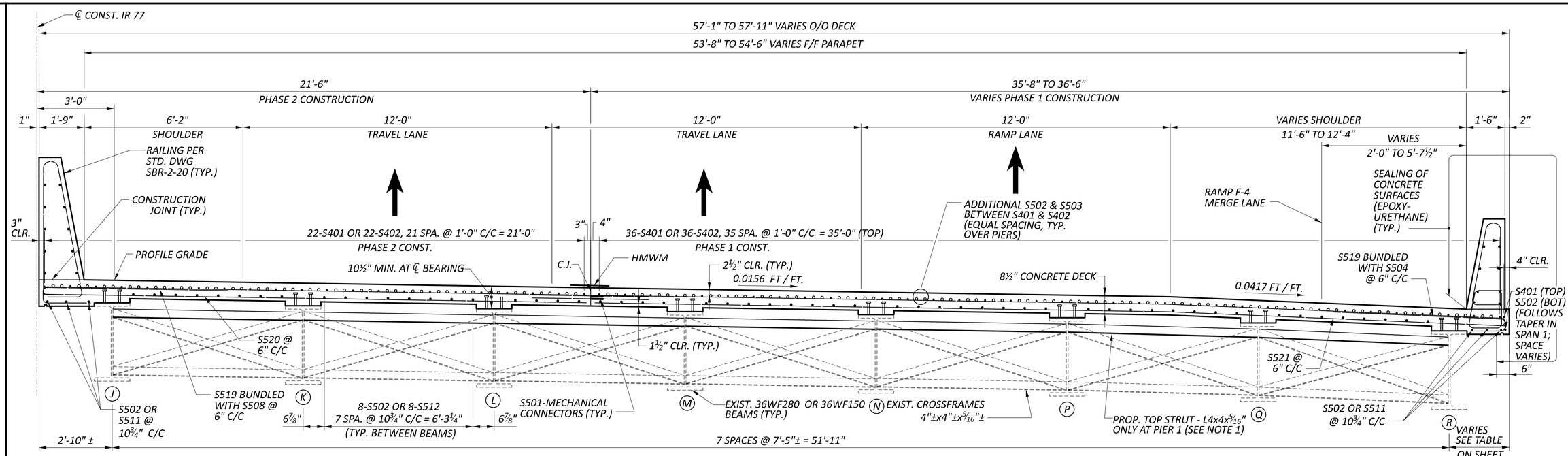
REVIEWER DLR 08/04/25
PROJECT ID 119380

SUBSET	TOTAL
21	57

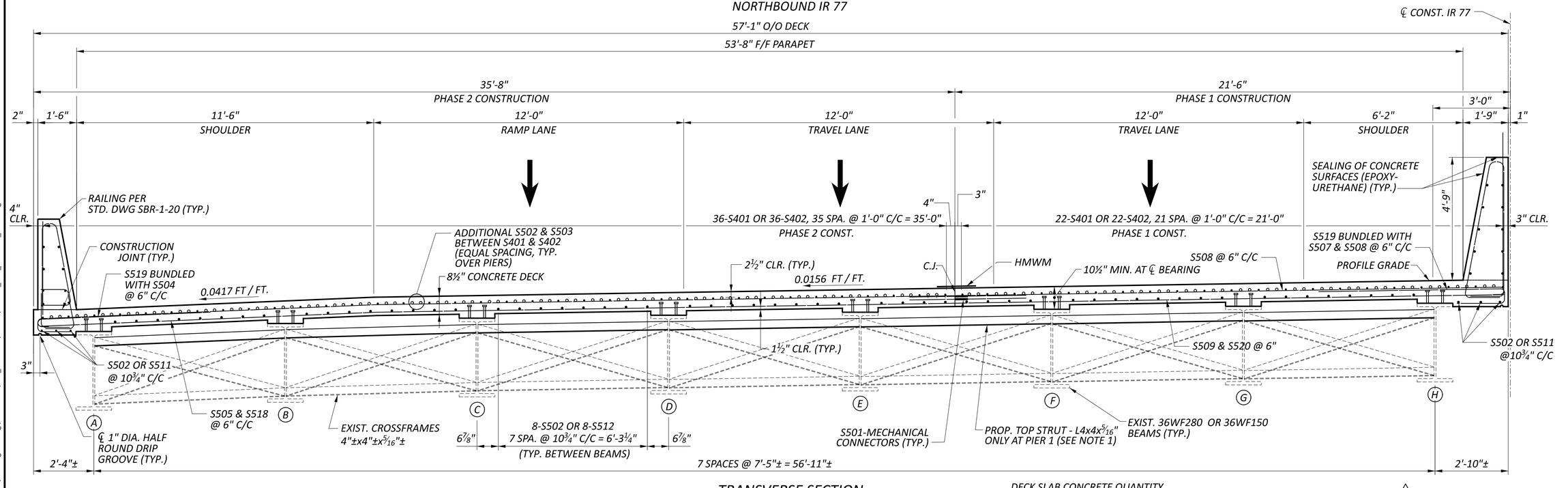
SHEET	TOTAL
P.237	365

CUY-77-15.46/VAR

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TRANSVERSE SECTION
NORTHBOUND IR 77



TRANSVERSE SECTION
SOUTHBOUND IR 77

NOTES:

1. WELD 4"x4"x5/16" ANGLES TO EXISTING BEAM WEBS, WELD ALL AROUND WITH A ¼" WELD. SEE SHEET 27 OF 57 FOR LOCATIONS.

1	10/13/25	EDITED NOTE

DECK SLAB CONCRETE QUANTITY

THE ESTIMATED QUANTITY OF DECK SLAB CONCRETE IS BASED ON THE CONSTANT DECK SLAB THICKNESS, AS SHOWN, PLUS THE QUANTITY OF CONCRETE THAT FORMS EACH BEAM/GIRDER HAUNCH. THE ESTIMATE ASSUMES AN AVERAGE HAUNCH THICKNESS OF 3 INCHES AND A HAUNCH WIDTH EQUAL TO THE TOP FLANGE WIDTH. DEVIATE FROM THIS HAUNCH THICKNESS AS NECESSARY TO PLACE THE DECK SURFACE AT THE FINISHED GRADE. 1

THE HAUNCH THICKNESS WAS MEASURED AT THE CENTERLINE OF THE BEAM/GIRDER, FROM THE SURFACE OF THE DECK TO THE BOTTOM OF THE TOP FLANGE MINUS THE DECK SLAB THICKNESS. THE AREA OF ALL EMBEDDED STEEL PLATES HAS BEEN DEDUCTED FROM THE HAUNCH QUANTITY IN ACCORDANCE WITH 511.23.

TRANSVERSE SECTION
BRIDGE NO. CUY-77-15.46
IR 77 OVER WOODLAND AVE.

SFN	1806815
DESIGN AGENCY	
DESIGNER	BLN
CHECKER	DHT
REVIEWER	DLR 08/04/25
PROJECT ID	119380
SUBSET	31
TOTAL	57
SHEET	P.247
TOTAL	365

CUY-77-15.46/VAR

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ITEM 513, STRUCTURAL STEEL MEMBER, LEVEL 1, AS PER PLAN (BOLTED COVER PLATE RETROFITS)

THIS WORK CONSISTS INSTALLING NEW BOLTED COVER PLATE RETROFITS AS DETAILED ON THE FRAMING PLANS AND THE MOMENT PLATE RETROFIT DETAILS.

ALL PROVISIONS OF CMS 513 SHALL APPLY . NEW STEEL SHALL MEET THE REQUIREMENTS OF ASTM A709 GRADE 50. THE LEVEL OF THEFABRICATOR QUALIFICATIONS SHALL BE 1 OR HIGHER. WHERE A SHAPE IS DESIGNATED (CVN), FURNISH MATERIAL THAT MEETS THE MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN 711.01.

THIS WORK INCLUDES ALL FIELD MEASUREMENT, FIELD DRILLING OF HOLES IN THE EXISTING STEEL, AND SURFACE PREPARATION OF PROPOSED FAYING SURFACES ON THE EXISTING BEAMS. FAYING SURFACES SHALL BE BLAST CLEAN TO A SSPC-SP10 AS DESCRIBED UNDER 514.13 C.

THIS ITEM INCLUDES ALL MATERIAL, EQUIPMENT, LABOR, ANDINCIDENTALS NECESSARY TO INSTALL THE NEW BOLTED COVER PLATE RETROFITS AT EACH LOCATION SHOWN IN THE PLANS. THE QUANTITY BID FOR EACH LOCATION SHALL INCLUDE BOTH THE TOP AND BOTTOM FLANGE COVER PLATE RETROFITS AT EACH LOCATION SHOWN ON THE PLANS.

ITEM 513, STRUCTURAL STEEL MISC.: SEISMIC RETROFIT

THIS WORK CONSISTS OF ADDING TOP HORIZONTAL CROSSFRAME ANGLES AT PIER 1, DIRECTLY ABOVE AND AT THE SAME ORIENTATION AS THE EXISTING LOWER HORIZONTAL CROSSFRAME ANGLES AT PIER 1. THE PROPOSED ANGLES BE PLACED TO MAINTAIN A MINIMUM OF 2" CLEAR FROM THE TOP FLANGE AND THE ANGLES SHALL BE 4"x4"x $\frac{5}{16}$" AND FIELD WELDED AT EACH OF THE ENDS TO THE WEB USING $\frac{1}{4}$" FILLET WELD ALL THE WAY AROUND. THERE ARE 14 LOCATIONS TOTAL. THE NEW STEEL SHALL MEET THE REQUIREMENTS OF ASTM A709 GRADE 36 OR 50. THE LEVEL OF THE FABRICATOR QUALIFICATIONS SHALL BE 1 OR HIGHER.

THIS ITEM INCLUDES ALL MATERIAL, EQUIPMENT, LABOR, FIELD MEASUREMENTS, SHOP DRAWING, SURFACE PREPARATION, AND INCIDENTALS NECESSARY TO INSTALL THE NEW SEISMIC RETROFIT UPPER CROSSFRAME ANGLES AT THE LOCATIONS SHOWN IN THE PLANS.

ITEM 513, STRUCTURAL STEEL MISC.: REPLACEMENT OF CROSSFRAMES

THIS WORK CONSISTS OF REMOVING AND REPLACING EXISTING CROSS FRAMES THAT INTERFERE WITH THE INSTALLATION OF THE BOLTED COVER PLATE RETROFITS. ANY EXISTING WELDS ARE TO BE GROUND SMOOTH. AFTER INSTALLATION, INSTALL NEW TYPE 1: INTERMEDIATE WELDED CROSSFRAME PER ARCHIVED ODOT STANDARD DRAWING GSD-1-96, DATED 7-19-2002, AVAILABLE AT ODOT'S WEB SITE AT https://www.dot.state.oh.us/SCDs/Structural%20Archives/Forms/AllItems.aspx UNDER DIRECTORY SUPERSTRUCTURE DETAILS BEAM SPLICES.
ALL PROVISIONS OF CMS 513 SHALL APPLY . NEW STEEL SHALL MEET THE REQUIREMENTS OF ASTM A709 GRADE 50. THE LEVEL OF THE FABRICATOR QUALIFICATIONS SHALL BE 1 OR HIGHER.

THIS ITEM INCLUDES ALL MATERIAL, EQUIPMENT, LABOR, FIELD MEASUREMENTS, SHOP DRAWING, AND INCIDENTALS NECESSARY TO REMOVE AND INSTALL THE NEW TYPE 1 INTERMEDIATE CROSSFRAMES THAT INTERFERE WITH THE BOLTED COVER PLATE RETROFITS.

ITEM 514, SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL, AS PER PLAN

ITEM 514, FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT, AS PER PLAN

ITEM 514, FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT, AS PER PLAN

ITEM 514, FIELD PAINTING STRUCTURAL STEEL, FINISH COAT, AS PER PLAN

PREPARATION SURFACE AND PAINT ALL THREE COATS FOR THE LAST 10 FEET OF EACH BEAM/GIRDER END ADJACENT TO THE ABUTMENTS, INCLUDING ALL CROSSFRAMES AND OTHER STEEL WITHIN THESE LIMITS.

PREPARE THE SURFACE AND PAINT ALL THREE COATS ON THE FULL LENGTH OF BEAM/GIRDER FLANGE EDGES PREVIOUSLY EMBEDDED IN EXISTING DECK HAUNCHES. THE USE OF WIRE WHEELS, ROLLERS, AND/OR BRUSHES WILL BE PERMITTED FOR THE HAND PAINTING OF BEAM/GIRDER FLANGE EDGES.

PAINT THE INTERMEDIATE AND FINISH COAT FOR ALL NEW STRUCTURAL STEEL MEMBERS INCLUDING THE BOLTED COVER PLATES RETROFITS, REPLACED END CROSSFRAMES, SEISMIC RETROFITS, AND REPLACEMENT CROSSFRAMES.

THE PRIME COAT SHALL BE 708.01. THE FINISH COAT COLOR SHALL ATTEMPT TO MATCH THE EXISTING PAINT COLOR.

1

ITEM 516, ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (2.9184"X13"X13" PAD, 1"X14"X14" LOAD PLATE, AND 1 1/2"X18"X32" MASONRY PLATE WITH SEISMIC RETAINERS)

THIS ITEM IS FOR THE CONSTRUCTION OF THE ELASTOMERIC BEARINGS WITH INTERNAL LAMINATES AND LOAD PLATES WITH MASONRY PLATE WITH SEISMIC RETAINERS AT THE FORWARD ABUTMENT AS SHOWN IN THE PLANS. THIS ITEM INCLUDES ALL LABOR AND MATERIAL, INCLUDING RETAINERS, ANCHOR RODS AND INCIDENTAL ITEMS TO CONSTRUCT AND INSTALL THE BEARINGS AS SHOWN IN THE PLANS. PERFORM WORK ACCORDING TO C&MS 516. DOWEL HOLES ARE INCLUDED UNDER ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT AND JACKING AND TEMPORARY SUPPORTS ARE INCLUDED WITH TIME 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.

ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN:

THIS WORK CONSISTS OF RAISING OR RE-POSITIONING EXISTING STRUCTURES TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANSFOR THE PURPOSE OF REPLACING THE ABUTMENT BEARINGS WITH NO CHANGE TO THE VERTICAL POSITION OF THE EXISTING STRUCTURAL STEEL FRAMING. IT ALSO CONSISTS OF SUPPORTING THE EXISTING AND PROPOSED DECK AS THE CUT LINE PASSES BETWEEN BEAM LINES WHEN THE CANTILEVER IS GREATER THAN 2.5 FEET FROM THE CENTERLINE OF BEAM TO FACE OF BARRIER. SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH C&MS 501.05. IF, DURING THE JACKING OPERATIONS, CRACKING OF THE CONCRETE SUPERSTRUCTURE, SEPARATION OF THE CONCRETE DECK FROM THE STEEL STRINGERS, OR OTHER DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. EPOXY INJECT ALL BEAMS THAT SEPARATE FROM THE PROPOSED DECK FOR THE DISTANCE OF THE SEPARATION IN ACCORDANCE WITH C&MS 512.07. THE DEPARTMENT WILL NOT PAY FOR THE COST OF THIS EPOXY INJECTION OR OTHER REQUIRED REPAIRS. THE BRIDGE BEARINGS SHALL BE FULLY SEATED AT ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON BEARINGS. THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.

ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN

PRIOR TO THE SURFACE CLEANING SPECIFIED IN C&MS 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED STEEL REINFORCEMENT. ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING.

ITEM 526, REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN

THIS WORK INCLUDES CONSTRUCTION OF THE REINFORCED CONCRETE APPROACH SLABS AS SHOWN IN THE PLANS AND AS SHOWN IN ODOT STANDARD CONSTRUCTION DRAWINGS AS-1-15 AND AS-2-15 WITH THE FOLLOWING ADDITION.

THIS ITEM SHALL ALSO INCLUDES ALL MATERIAL, LABOR, AND INCIDENTALS NECESSARY TO INSTALL THE 4" THICK POLYSTYRENE BETWEEN THE TOP OF THE WINGWALLS AND THE BOTTOM OF THE APPROACH SLABS AS SHOWN IN THE PLANS.

ABBREVIATIONS

ABUT.	- ABUTMENT
ADT	- AVERAGE DAILY TRAFFIC
ADTT	- AVERAGE DAILY TRUCK TRAFFIC
APPR.	- APPROACH
B	- BOTTOM
℄	- BASELINE
B.F.	- BACK FACE
BM	- BENCHMARK
BOT./BOTT./BTM.	- BOTTOM
BRG.	- BEARING
℄	- CENTERLINE
C/C	- CENTER TO CENTER
C.I.P.	- CAST-IN-PLACE
C.J.	- CONSTRUCTION JOINT
CLR./CL.	- CLEAR
C&MS OR CMS	- CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONC.	- CONCRETE
CONSTR./CONST.	- CONSTRUCTION
CVN	- CHARPY V-NOTCH
DIA.	- DIAMETER
DIM.	- DIMENSION
DND	- DO NOT DISTURB
DWG.	- DRAWING
E	- EAST
EB	- EASTBOUND
E.F.	- EACH FACE
EL. OR ELEV.	- ELEVATION
EOP	- EDGE OF PAVEMENT
EQ.	- EQUAL
EST.	- ESTIMATED
EX.	- EXISTING
EXP.	- EXPANSION
F.A.	- FORWARD ABUTMENT
F/F	- FACE TO FACE
F.F.	- FRONT FACE
F.S.	- FIELD SPLICE
FT.	- FOOT OR FEET
FWD.	- FORWARD
FWS	- FUTURE WEARING SURFACE
GBL	- GRADE BREAK LINE
HMWM	- HIGH MOLECULAR WEIGHT METHACRYLATE
HW	- HIGH WATER
IN.	- INCH
JT.	- JOINT
L.F.	- LEFT FORWARD
LT.	- LEFT
LTBR	- LEFT TOE BRIDGE RAILING
MAX.	- MAXIMUM
MIN.	- MINIMUM
MISC.	- MISCELLANEOUS
N	- NORTH
NB	- NORTHBOUND
NO.	- NUMBER
N.P.C.P.P.	- NON-PERFORATED
OHWM	- ORDINARY HIGH WATER
O/O	- OUT TO OUT
PB	- PORTABLE BARRIER
PCB	- PORTABLE CONCRETE BARRIER
P.C.P.P.	- PERFORATED
P.E.J.F.	- PREFORMED EXPANSION JOINT FILLER
PG	- PROFILE GRADE
PROP.	- PROPOSED
PRV'D	- PROVIDED
PSF	- POUNDS PER SQUARE FOOT
P.V.I.	- POINT OF VERTICAL INTERSECTION
Q	- FLOW RATE
R	- RADIUS
R.A.	- REAR ABUTMENT
RCP	- ROCK CHANNEL PROTECTION
REQD.	- REQUIRED
R.F.	- RIGHT FORWARD
R.R.	- RAILROAD
RT.	- RIGHT
RTBR	- RIGHT TOE BRIDGE RAILING
R/W	- RIGHT OF WAY
S	- SOUTH
SB	- SOUTHBOUND
SER.	- SERIES
SHLDR	- SHOULDER
SIP	- STAY IN PLACE
SLPR.	- SLEEPER
SPA.	- SPACE OR SPACES
STA.	- STATION
STD.	- STANDARD
STR	- STRAIGHT
T	- TOP
T&B	- TOP & BOTTOM
TBR	- TO BE REMOVED
TEMP.	- TEMPORARY
T.O.S. OR T/S	- TOP OF SLOPE
T/T -	- TOE TO TOE
TYP.	- TYPICAL
U.N.O.	- UNLESS NOTED OTHERWISE
VAR.	- VARIES
V	- VELOCITY
W	- WEST
WB	- WESTBOUND
WP	- WORK POINT
WWR	- WELDED WIRE REINFORCEMENT

1	10/06/25	REVISE NOTE

GENERAL NOTES - 2
BRIDGE NO. CUY-77-15.62
IR 77 OVER E. 22ND ST.

SFN 1806874

DESIGN AGENCY
E.L. ROBINSON ENGINEERING
1468 West 9th St, Suite 800 Cleveland, Ohio
950 Goodale Blvd, Suite 180 Grandview Heights, Ohio

DESIGNER	CHECKER
MJM	JOL

REVIEWER RER 07/25/25

PROJECT ID 119380

SUBSET	TOTAL
4	40

SHEET	TOTAL
P.277	365

CUY-077-15.46/VAR

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FUNDING PARTICIPATION		MADE BY: MJM DATE: 7/25/2025 CHECKED BY: MMD DATE: 7/25/2025			ESTIMATED QUANTITIES					STRUCTURAL FILE NUMBER: 1806874
01/IMS	ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIER	SUPER.	GEN.	REFERENCE SHEET NO.
LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN					SHEET 3 OF 40
400	202	22900	400	SY	APPROACH SLAB REMOVED				400	
400	202	23500	400	SY	WEARING COURSE REMOVED				400	
LS	503	11101	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN					SHEET 3 OF 40
139	503	21100	139	CY	UNCLASSIFIED EXCAVATION	139				
223,658	509	10000	223,658	LB	EPOXY COATED STEEL REINFORCEMENT	16,499		207,159		
~~165~~	509	20001	~~165~~	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN	165				SHEET 3 OF 40
13,261 1	509	30020	13,261 1	FT	NO. 4 DEFORMED GFRP REINFORCEMENT			13,261		
700	510	10001	700	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	700				SHEET 3 OF 40
699	511	34446	699	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK			699		
197	511	34450	197	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)			197		
115	511	45712	115	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT	115				
1,108	512	10100	1,108	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	249		859		
3,071	512	10400	3,071	SY	TREATING OF CONCRETE BRIDGE DECK WITH SRS			2,470	601	
4	512	10600	4	FT	CONCRETE REPAIR BY EPOXY INJECTION		4			
97	512	33000	97	SY	TYPE 2 WATERPROOFING	97				
3,071	512	73500	3,071	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN			2,470	601	
14,111	513	10221	14,111	LB	STRUCTURAL STEEL MEMBERS, LEVEL 1, AS PER PLAN (BOLTED COVER PLATE RETROFITS)			14,111		SHEETS 4 OF 40
15,776	513	20000	15,776	EACH	WELDED STUD SHEAR CONNECTORS			15,776		
4,230	513	21500	4,230	LB	REPLACEMENT OF DETERIORATED END CROSSFRAMES			4,230		
845	513	90000	845	LB	STRUCTURAL STEEL, MISC.: SEISMIC RETROFIT			845		SHEET 4 OF 40
28 1	513	95030	28 1	EACH	STRUCTURAL STEEL, MISC.: REPLACEMENT OF CROSS FRAMES			28		SHEET 4 OF 40
3,782	514	00051	3,782	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL, AS PER PLAN			3,782		SHEET 4 OF 40
3,782	514	00057	3,782	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT, AS PER PLAN			3,782		SHEET 4 OF 40
4,824	514	00061	4,824	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT, AS PER PLAN			4,824		SHEET 4 OF 40
4,824	514	00067	4,824	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT, AS PER PLAN			4,824		SHEET 4 OF 40
229	516	11210	229	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL	229				
135	516	13600	135	SF	1" PREFORMED EXPANSION JOINT FILLER	44		91		
13	516	13900	13	SF	2" PREFORMED EXPANSION JOINT FILLER			13		
16	516	44001	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (1.8754"X8 1/2"X11" PAD, 1/2"X9 1/2"X13" LOAD PLATE)	16				SHEET 20 OF 40
16	516	44101	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (2.9334"X13"X13" PAD, 1"X14"X14" LOAD PLATE, AND 1 1/2"X18"X32" MASONRY PLATE WITH SEISMIC RETAINERS)	16				SHEET 4 & 20 OF 40
LS	516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN					SHEET 4 OF 40
5	518	12200	5	EACH	SCUPPERS, INCLUDING SUPPORTS			5		
139	518	21200	139	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	139				
285	518	40000	285	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	285				
100	518	40010	100	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	100				
17	518	51100	17	FT	8" PIPE DOWNSPOUT, INCLUDING SPECIALS		17			
1.991	SPECIAL	51900100	1,991	SF	COMPOSITE FIBER WRAP SYSTEM		1,991			SHEET 19 OF 40
11	519	11101	11	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN		11			SHEET 4 OF 40
640	526	25011	640	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN				640	SHEET 4 OF 40
224	526	90010	224	FT	TYPE A INSTALLATION				224	
2	625	33000	2	EACH	STRUCTURE GROUNDING SYSTEM				2	

1	10/17/25	UPDATE PAINTING QUANTITIES & GFRP REINFORCEMENT

ESTIMATED QUANTITIES
BRIDGE NO. CUY-77-15.62
IR 77 OVER E. 22ND ST.

SFN 1806874

DESIGN AGENCY

E.L. ROBINSON ENGINEERING
1468 West 9th St, Suite 800 Cleveland, Ohio
950 Goodale Blvd, Suite 180 Grandview Heights, Ohio

DESIGNER	CHECKER
MJM	JOL

REVIEWER RER 07/25/25

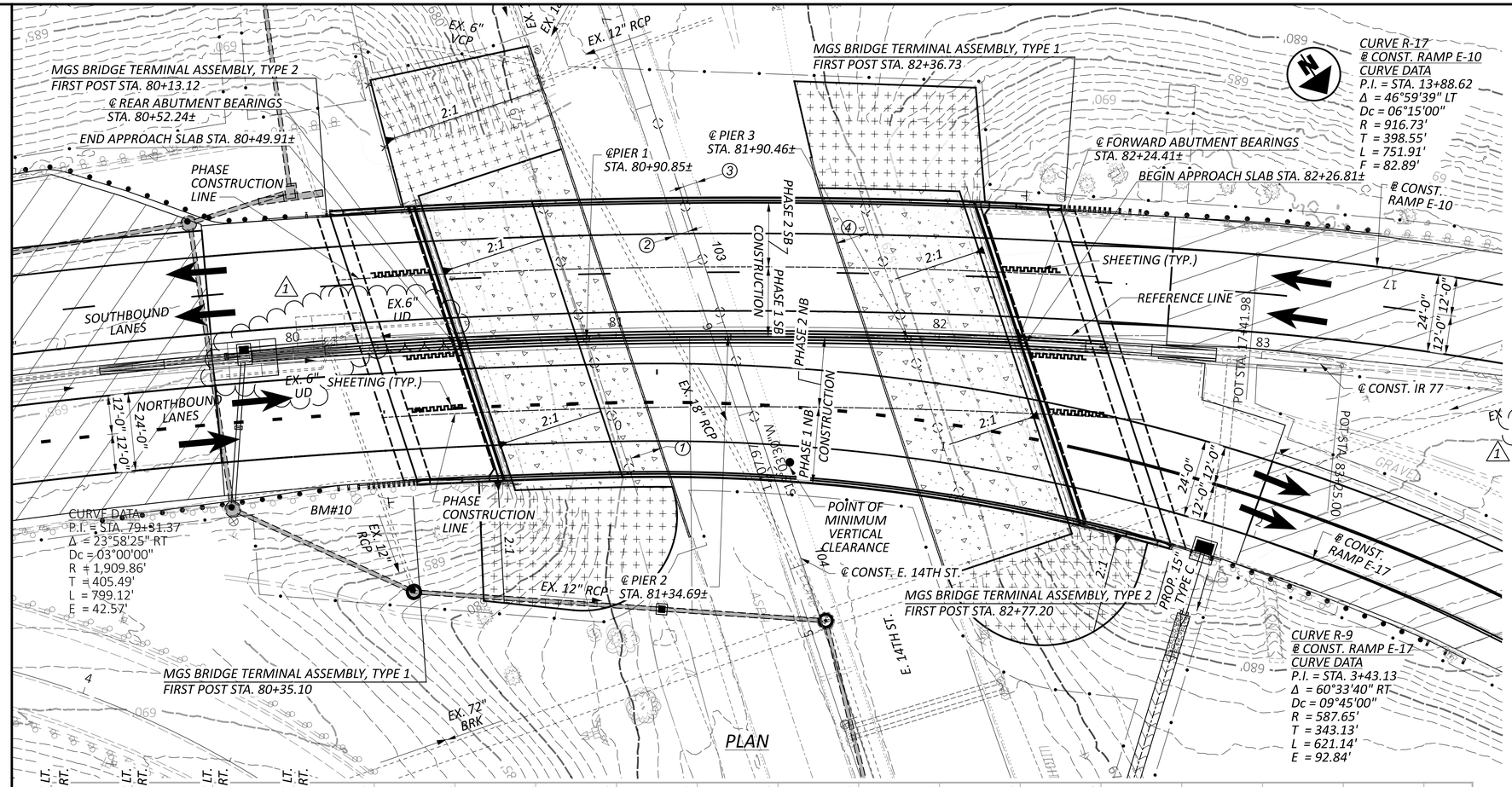
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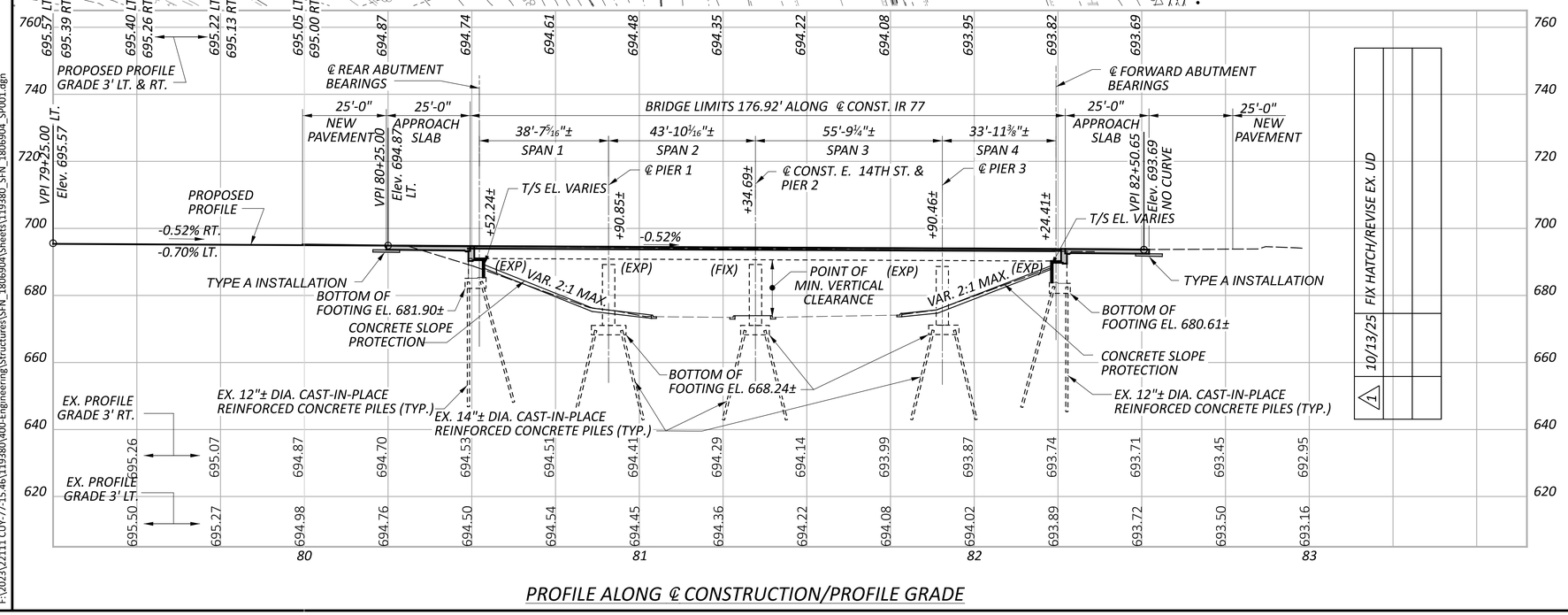
SUBSET	TOTAL
5	40

SHEET	TOTAL
P.278	365

CUY-077-15.46/VAR

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PROFILE ALONG ℄ CONSTRUCTION/PROFILE GRADE

BENCHMARK DATA

BM #10 STA.	80+07.91,	ELEV.	697.27,	OFFSET	62.20',	LT.
BM #11 STA.	81+72.96,	ELEV.	674.65,	OFFSET	119.76',	RT.

FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET 142 OF 365.

NOTES

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. EXISTING UNDERPASS LIGHTING TO BE REPLACED. EXISTING LIGHTING CIRCUIT TO BE UPDATED WITH PROJECT.

DESIGN TRAFFIC:

2025 ADT = 59,000 2025 ADTT = 4,130
2045 ADT = 62,000 2045 ADTT = 4,340
DIRECTIONAL DISTRIBUTION = 60%

LEGEND

CONSTRUCTED WITH CCG3A

LEGEND

- ● 14'-6" REQUIRED MINIMUM VERTICAL CLEARANCE
  15'-0½" ACTUAL MINIMUM VERTICAL CLEARANCE
- CONCRETE SLOPE PROTECTION
- EROSION CONTROL
- PLANING AND RESURFACING

	REQUIRED MINIMUM HORIZONTAL CLEARANCE	ACTUAL MINIMUM HORIZONTAL CLEARANCE
①	4'	9.89'
②	4'	6.21'
③	4'	5.68'
④	4'	11.86'

EXISTING STRUCTURE

TYPE: FOUR CONTINUOUS STEEL BEAM WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE UNITS ON CAST-IN-PLACE PILES

SPANS: 38'-7⁵⁄₁₆"±; 43'-10¹⁵⁄₁₆"±; 55'-9¼"±; 33'-11⅜" C/C BEARING

ROADWAY: S.B. BRIDGE - 37'-10"± TOE OF SAFETY CURB TO TOE OF MEDIAN
N.B. BRIDGE - VARIES

LOADING: CF 2000

SKEW: 18°02'35"± R.F. (WITH RESPECT TO REFERENCE CHORD)

WEARING SURFACE: 2¾"± SUPERPLASTICIZED DENSE CONCRETE OVERLAY

APPROACH SLABS: AS-1-54 15' THICK (25' LONG)

ALIGNMENT: 2°38'40" RT. ALONG ℄ CONST. RAMP E-10
3°45'00" RT. AND 10°00'00" RT. ALONG ℄ CONST. RAMP E-17

SUPERELEVATION: VARIES (0.05± MAX.)

STRUCTURE FILE NUMBER: 1806904

DATE BUILT: 1962

DISPOSITION: REHABILITATION + NEW CONCRETE DECK

PROPOSED STRUCTURE

PROPOSED WORK: REPLACE EXISTING DECK WITH COMPOSITE CONCRETE DECK; CONSTRUCT ABUTMENT SEATS AND SEISMIC BLOCK; REPLACE BACKWALLS, BEAM SEATS, END CROSS FRAME AND EXPANSION JOINTS; REPLACE ABUTMENT BEARINGS; REPLACE APPROACH SLABS; FIBER WRAP PIERS; CONSTRUCT CONCRETE SLOPE PROTECTION

SPANS: 38'-7⁵⁄₁₆"±; 43'-10¹⁵⁄₁₆"±; 55'-9¼"±; 33'-11⅜"± C/C BEARING (ALONG REFERENCE LINE)

ROADWAY: S.B. BRIDGE - 39'-8" TOE/TOE PARAPET
N.B. BRIDGE - VARIES 39'-8" MINIMUM TOE/TOE PARAPET

LOADING: HL93 AND 0.060 KSF FUTURE WEARING SURFACE

SKEW: 18°02'35"± R.F. (WITH RESPECT TO REFERENCE CHORD)

WEARING SURFACE: 1" MONOLITHIC CONCRETE

APPROACH SLABS: MODIFIED 25'-0" LONG (15" THICK) (AS-1-15, AS-2-15 TYPE A INSTALLATION)

ALIGNMENT: 2°38'40" RT. ALONG ℄ CONST. RAMP E-10
3°45'00" RT. AND 10°00'00" RT. ALONG ℄ CONST. RAMP E-17

SUPERELEVATION: VARIES 0.05 FT/FT MAX.

DECK AREA: 15,399 SF

COORDINATES: LATITUDE 41° 29' 35.09" N
LONGITUDE 81° 40' 39.79" W

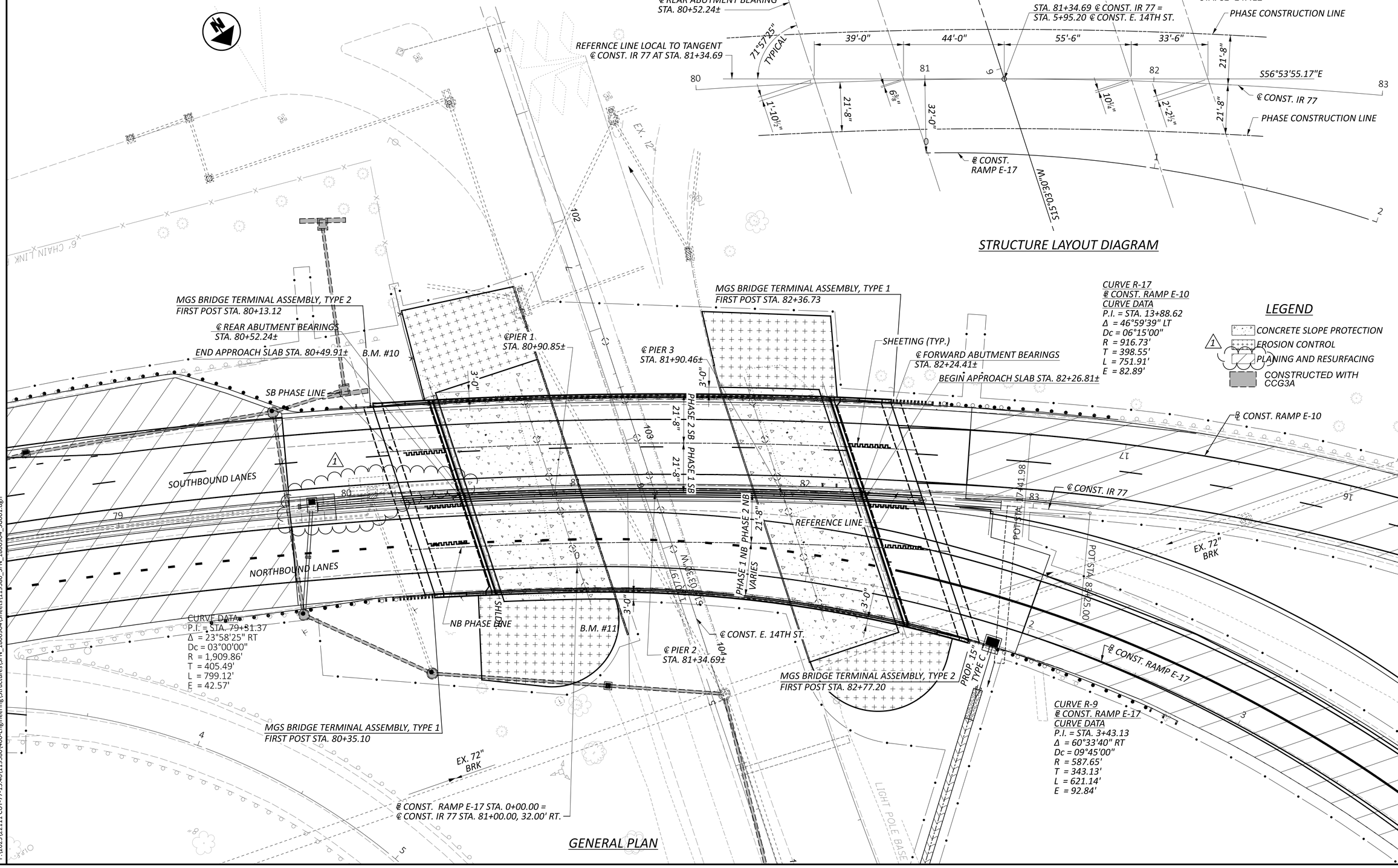
SITE PLAN
BRIDGE NO. CUY-77-15.75
IR 77 OVER E. 14TH ST.

SFN
1806904
DESIGN AGENCY
DESIGNER BLN / CHECKER DHT
REVIEWER DLR 08/04/25
PROJECT ID 119380
SUBSET 1 / TOTAL 52
SHEET P.314 / TOTAL 365

CUY-77-15.46/VAR

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1	10/13/25	FIX HATCH/REVISE EX. UD



GENERAL PLAN
BRIDGE NO. CUY-77-15.75
IR 77 OVER E. 14TH ST.

SFN	1806904
DESIGN AGENCY	
DESIGNER	BLN
CHECKER	DHT
REVIEWER	DLR 08/04/25
PROJECT ID	119380
SUBSET	2
TOTAL	52
SHEET	P.315
TOTAL	365

CUY-77-15.46/VAR

MODEL: CLX_IR-79 - Plan 1 PAPERSIZE: 34x22 (in.) DATE: 10/16/2025 TIME: 10:34:05 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: SMorr@manniksmithgroup.com WORKSPACE: OHDOTCEv02 WORKSET: 119380 PRODUCT: OpenRoadsDesigner 10.12.02.4
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ITEM 514 – SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL, AS PER PLAN

ITEM 514 – FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT, AS PER PLAN

ITEM 514 – FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT, AS PER PLAN

ITEM 514 – FIELD PAINTING STRUCTURAL STEEL, FINISH COAT, AS PER PLAN

PREPARE THE SURFACE AND PAINT ALL THREE COATS ON THE LAST 10 FEET OF EACH BEAM/GIRDER END ADJACENT TO THE ABUTMENTS, INCLUDING ALL CROSSFRAMES AND OTHER STEEL FRAMING WITHIN THESE LIMITS. PREPARE THE SURFACE AND PAINT ALL THREE COATS ON THE FULL LENGTH OF BEAM/GIRDER FLANGE EDGES PREVIOUSLY EMBEDDED IN EXISTING DECK HAUNCHES. THE USE OF WIRE WHEELS, ROLLERS, AND/OR BRUSHES WILL BE PERMITTED FOR THE HAND PAINTING OF BEAM/GIRDER FLANGE EDGES.

PAINT THE INTERMEDIATE AND FINISH COAT FOR ALL NEW STRUCTURAL STEEL MEMBERS INCLUDING THE BOLTED COVER PLATES RETROFITS, REPLACED END CROSSFRAMES, SEISMIC RETROFITS AND REPLACEMENT CROSSFRAMES.

THE PRIME COAT SHALL BE 708.01. THE FINISH COAT COLOR SHALL ATTEMPT TO MATCH THE EXISTING PAINT COLOR.

ITEM 516 – JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN:

THIS WORK CONSISTS OF RAISING OR RE-POSITIONING EXISTING STRUCTURES TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANS FOR THE PURPOSE OF REPLACING THE ABUTMENT BEARINGS WITH NO CHANGE TO THE VERTICAL POSITION OF THE EXISTING STRUCTURAL STEEL FRAMING. SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH C&MS 501.05. IF, DURING THE JACKING OPERATIONS, CRACKING OF THE CONCRETE SUPERSTRUCTURE, SEPARATION OF THE CONCRETE DECK FROM THE STEEL STRINGERS, OR OTHER DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. EPOXY INJECT ALL BEAMS THAT SEPARATE FROM THE DECK FOR THE DISTANCE OF THE SEPARATION IN ACCORDANCE WITH C&MS 512.07. THE DEPARTMENT WILL NOT PAY FOR THE COST OF THIS EPOXY INJECTION OR OTHER REQUIRED REPAIRS. THE BRIDGE BEARINGS SHALL BE FULLY SEATED AT ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON BEARINGS. THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPER-STRUCTURE, AS PER PLAN.

ITEM 526 – REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN

THIS WORK INCLUDES CONSTRUCTION OF THE REINFORCED CONCRETE APPROACH SLABS AS SHOWN IN THE PLANS AS AS SHOWN IN ODOT STANDARD CONSTRUCTION DRAWINGS AS-1-15 AND AS-2-15 WITH THE FOLLOWING ADDITION.
THIS ITEM SHALL ALSO INCLUDES ALL MATERIAL, LABOR, AND INCIDENTALS NECESSARY TO INSTALL THE 4" THICK POLYSTYRENE BETWEEN THE TOP OF THE WINGWALLS AND THE BOTTOM OF THE APPROACH SLABS AS SHOWN IN THE PLANS.

DECK PLACEMENT DESIGN ASSUMPTIONS:

THE FOLLOWING ASSUMPTIONS OF CONSTRUCTION MEANS AND METHODS WERE MADE FOR THE ANALYSIS AND DESIGN OF THE SUPERSTRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE FALSEWORK SUPPORT SYSTEM WITHIN THESE PARAMETERS AND WILL ASSUME RESPONSIBILITY FOR SUPERSTRUCTURE ANALYSIS FOR DEVIATION FROM THESE DESIGN ASSUMP-TIONS.

AN EIGHT WHEEL FINISHING MACHINE WITH A MAXIMUM WHEEL LOAD OF 2.2 KIPS.

A MINIMUM OUT-TO-OUT WHEEL SPACING AT EACH END OF THE MACHINE OF 103".

A MAXIMUM SPACING OF OVERHANG FALSEWORK BRACKETS OF 48 IN.

A MAXIMUM DISTANCE FROM THE CENTERLINE OF THE FASCIA GIRDER TO THE FACE OF THE SAFETY HANDRAIL OF 65".

ABBREVIATIONS

ABUT.	- ABUTMENT
ADT	- AVERAGE DAILY TRAFFIC
ADTT	- AVERAGE DAILY TRUCK TRAFFIC
APPR.	- APPROACH
B	- BOTTOM
℄	- BASELINE
B.F.	- BACK FACE
BM	- BENCHMARK
BOT./BOTT./BTM.	- BOTTOM
BRG.	- BEARING
℄	- CENTERLINE
C/C	- CENTER TO CENTER
C.I.P.	- CAST-IN-PLACE
C.J.	- CONSTRUCTION JOINT
CLR./CL.	- CLEAR
C&MS OR CMS	- CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONC.	- CONCRETE
CONSTR./CONST.	- CONSTRUCTION
CVN	- CHARPY V-NOTCH
DIA.	- DIAMETER
DIM.	- DIMENSION
DND	- DO NOT DISTURB
DWG.	- DRAWING
E	- EAST
EB	- EASTBOUND
E.F.	- EACH FACE
EL. OR ELEV.	- ELEVATION
EOP	- EDGE OF PAVEMENT
EQ.	- EQUAL
EST.	- ESTIMATED
EX.	- EXISTING
EXP.	- EXPANSION
F.A.	- FORWARD ABUTMENT
F/F	- FACE TO FACE
F.F.	- FRONT FACE
F.S.	- FIELD SPLICE
FT.	- FOOT OR FEET
FWD.	- FORWARD
FWS	- FUTURE WEARING SURFACE
GBL	- GRADE BREAK LINE
HMWM	- HIGH MOLECULAR WEIGHT METHACRYLATE
HW	- HIGH WATER
IN.	- INCH
JT.	- JOINT
L.F.	- LEFT FORWARD
LT.	- LEFT
LTBR	- LEFT TOE BRIDGE RAILING
MAX.	- MAXIMUM
MIN.	- MINIMUM
MISC.	- MISCELLANEOUS
N	- NORTH
NB	- NORTHBOUND
NO.	- NUMBER
N.P.C.P.P.	- NON-PERFORATED
OHWM	- ORDINARY HIGH WATER
O/O	- OUT TO OUT
PB	- PORTABLE BARRIER
PCB	- PORTABLE CONCRETE BARRIER
P.C.P.P.	- PERFORATED
P.E.J.F.	- PREFORMED EXPANSION JOINT FILLER
PG	- PROFILE GRADE
PROP.	- PROPOSED
PRV'D	- PROVIDED
PSF	- POUNDS PER SQUARE FOOT
P.V.I.	- POINT OF VERTICAL INTERSECTION
Q	- FLOW RATE
R	- RADIUS
R.A.	- REAR ABUTMENT
RCP	- ROCK CHANNEL PROTECTION
REQD.	- REQUIRED
R.F.	- RIGHT FORWARD
R.R.	- RAILROAD
RT.	- RIGHT
RTBR	- RIGHT TOE BRIDGE RAILING
R/W	- RIGHT OF WAY
S	- SOUTH
SB	- SOUTHBOUND
SER.	- SERIES
SHLDR	- SHOULDER
SIP	- STAY IN PLACE
SLPR.	- SLEEPER
SPA.	- SPACE OR SPACES
STA.	- STATION
STD.	- STANDARD
STR	- STRAIGHT
T	- TOP
T&B	- TOP & BOTTOM
TBR	- TO BE REMOVED
TEMP.	- TEMPORARY
T.O.S. OR T/S	- TOP OF SLOPE
T/T -	- TOE TO TOE
TYP.	- TYPICAL
U.N.O.	- UNLESS NOTED OTHERWISE
VAR.	- VARIES
V	- VELOCITY
W	- WEST
WB	- WESTBOUND
WP	- WORK POINT
WWR	- WELDED WIRE REINFORCEMENT

1	10/13/25	REVISE NOTE

GENERAL NOTES -2
BRIDGE NO. CUY-77-15.75
IR 77 OVER E. 14TH ST.

SFN 1806904
DESIGN AGENCY
DESIGNER BLN | CHECKER DHT
REVIEWER DLR 08/04/25
PROJECT ID 119380
SUBSET 4 | TOTAL 52
SHEET P.317 | TOTAL 365

CUY-77-15.46/VAR

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ESTIMATED QUANTITIES

CALCULATED RWC DATED 6/25
CHECKED DHT DATED 6/25

FUNDING PARTICIPATION 01/IMS	ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	SUPERSTR.	ABUTS.	PIER	GEN'L	SEE SHEET
LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LS	3/52
296	202	22900	296	SY	APPROACH SLAB REMOVED				296	
296	202	23500	296	SY	WEARING COURSE REMOVED				296	
LS	503	11101	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN				LS	3/52
112	503	21100	112	CY	UNCLASSIFIED EXCAVATION				112	
182,077 1	509	10000	182,077 1	LB	EPOXY COATED STEEL REINFORCEMENT	164,911	17,166 1			
100	509	20001	100	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN				100	3/52
11,683	509	30020	11,683	FT	NO. 4 DEFORMED GFRP REINFORCEMENT	11,683				
840	510	10001	840	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN		840			3/52
453	511	34446	453	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK	453				
173	511	34450	173	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)	173				
98	511	45712	98	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT		98			
1,008	512	10100	1,008	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	759	249			
2,048	512	10400	2,048	SY	TREATING OF CONCRETE BRIDGE DECK WITH SRS	2,048				
82	512	33000	82	SY	TYPE 2 WATERPROOFING	82				
2,048	512	73500	2,048	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	2,048				
9,052	513	20000	9,052	EACH	WELDED STUD SHEAR CONNECTORS	9,052				
3,474	513	21500	3,474	LB	REPLACEMENT OF DETERIORATED END CROSSFRAMES	3,474				
2,941	514	00051	2,941	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL, AS PER PLAN	2,941				4/52
2,941	514	00057	2,941	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT, AS PER PLAN	2,941				4/52
3,436	514	00061	3,436	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT, AS PER PLAN	3,436				4/52
3,436	514	00067	3,436	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT, AS PER PLAN	3,436				4/52
191	516	11210	191	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL	191				
14	516	13200	14	SF	½" PREFORMED EXPANSION JOINT FILLER		14			
75	516	13600	75	SF	1" PREFORMED EXPANSION JOINT FILLER		75			
13	516	13900	13	SF	2" PREFORMED EXPANSION JOINT FILLER		13			
26	516	44101	26	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (2.370"X10"X12" PAD AND 1.5"X11"X13" PLATE), AS PER PLAN	26				23/52
LS	516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	LS				4/52
3	518	12200	3	EACH	SCUPPERS, INCLUDING SUPPORTS	3				
58	518	21200	58	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC		58			
200	518	40000	200	FT	6" PERFORATED CORRUGATED PLASTIC PIPE		200			
30	518	40010	30	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS		30			
608	SPECIAL	51900100	608	SF	COMPOSITE FIBER WRAP SYSTEM			608		22/52
528	526	25011	528	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN				528	4/52
195	526	90010	195	FT	TYPE A INSTALLATION				195	
8	625	33000	8	EACH	STRUCTURE GROUNDING SYSTEM				8	

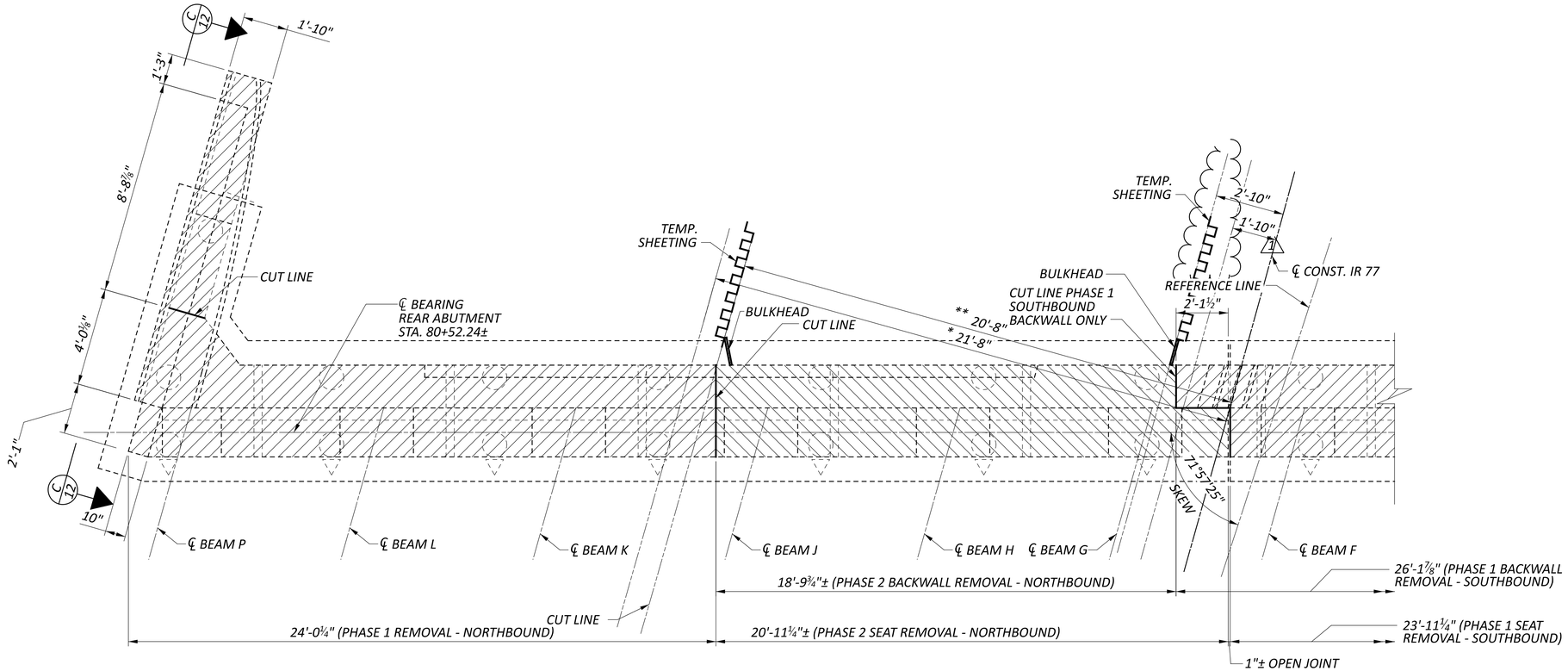
1	10/13/25	REVISE QUANTITY

ESTIMATED QUANTITIES
BRIDGE NO. CUY-77-15.75
IR 77 OVER E. 14TH ST.

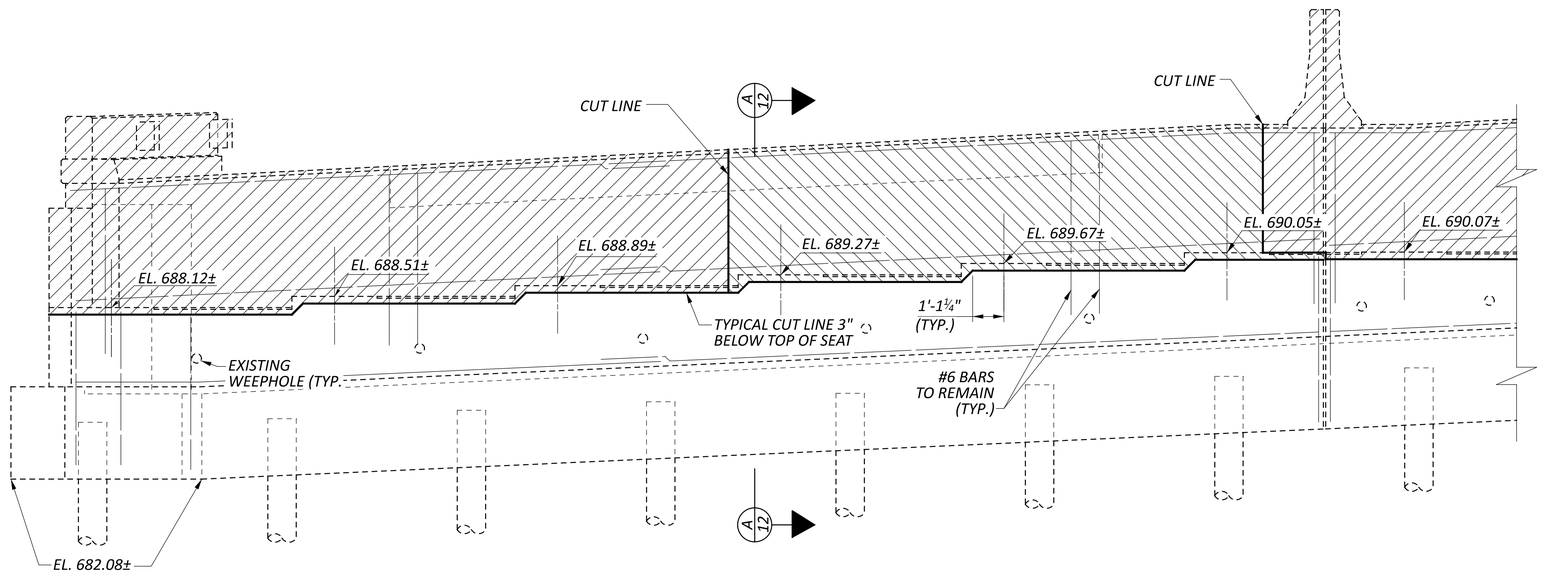
SFN 1806904
DESIGN AGENCY
DESIGNER BLN | CHECKER DHT
REVIEWER DLR 08/04/25
PROJECT ID 119380
SUBSET 5 | TOTAL 52
SHEET P.318 | TOTAL 365

CUY-77-15.46/VAR

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PLAN



ELEVATION

* PHASE CONST. JOINT

** DECK REMOVAL LINE

1	10/13/25	TURN ON LEVEL

LEGEND

PHASE 1 REMOVAL LIMITS

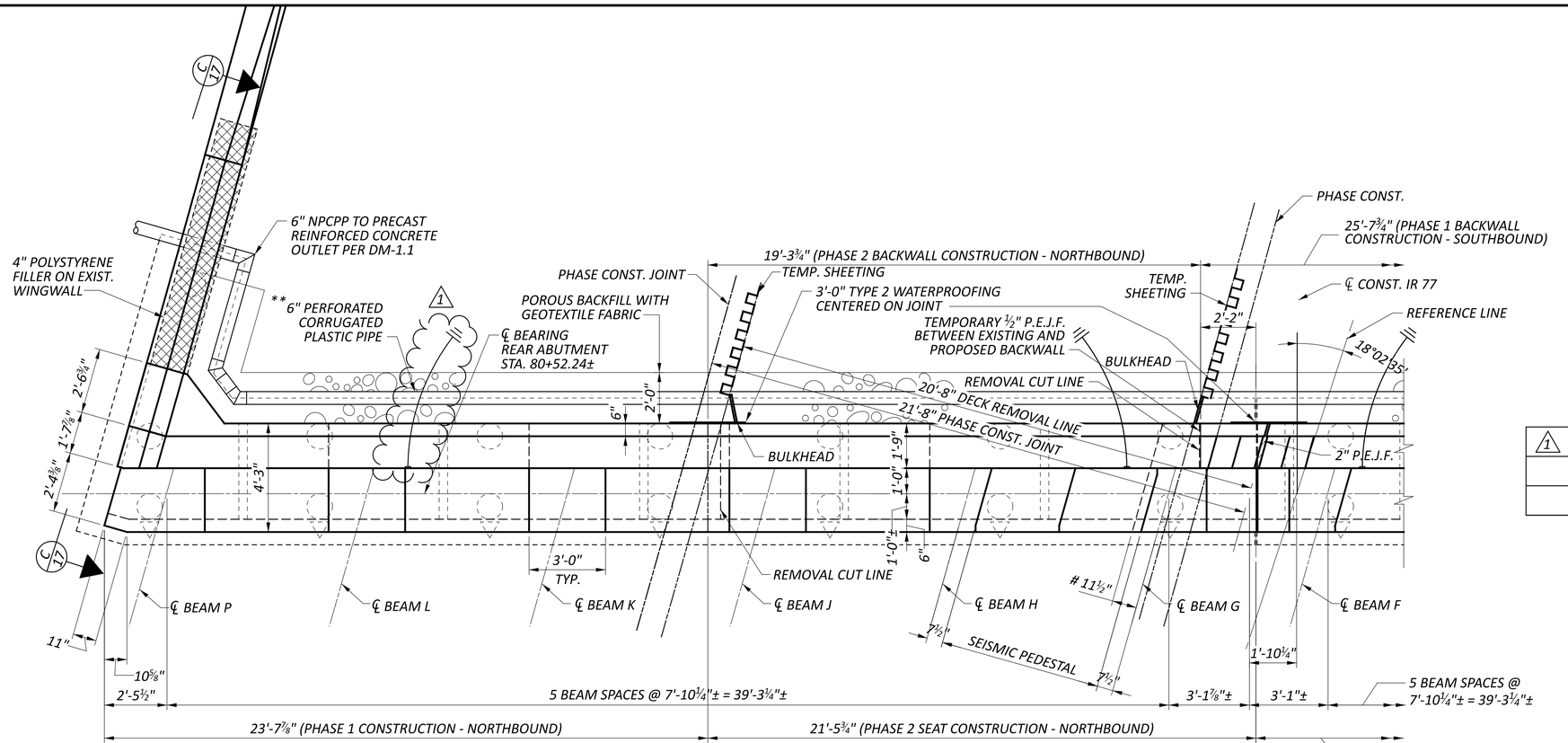
PHASE 2 REMOVAL LIMITS

REAR ABUTMENT REMOVAL - 1
BRIDGE NO. CUY-77-15.75
IR 77 OVER E. 14TH ST.

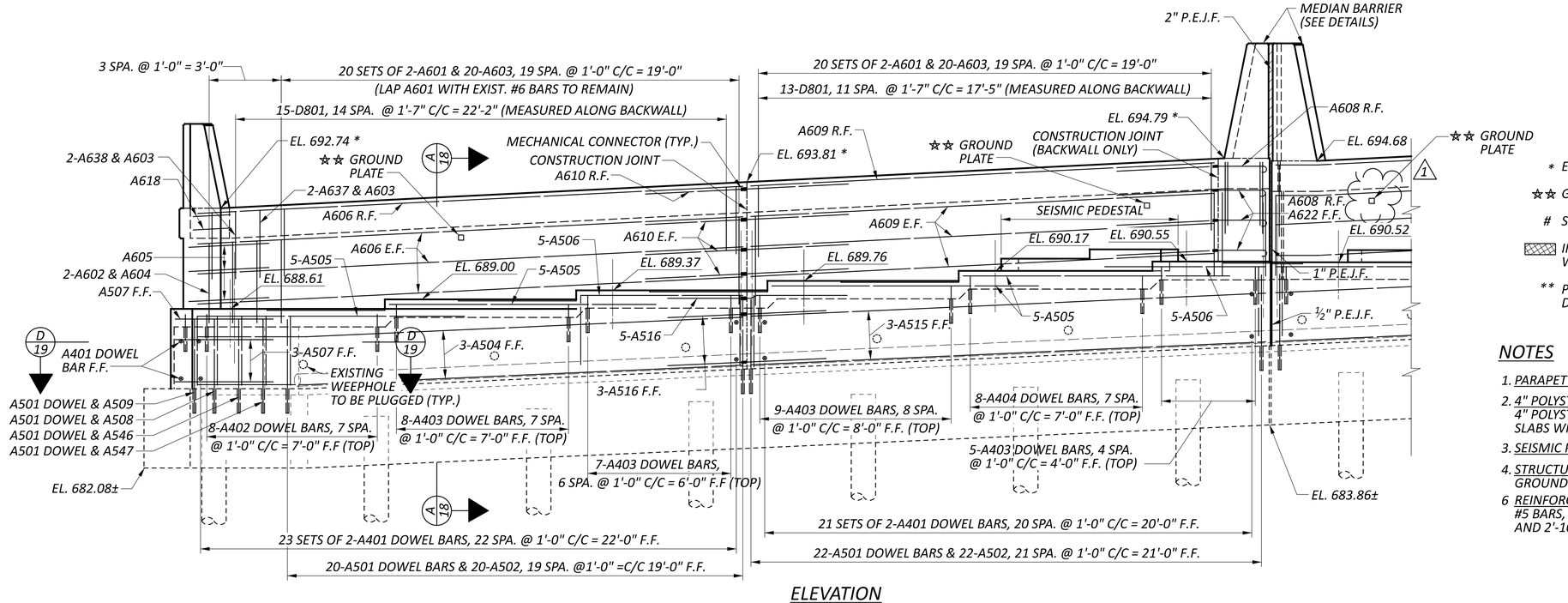
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SFN	1806904
DESIGN AGENCY	
DESIGNER	BLN
CHECKER	DHT
REVIEWER	DLR 08/04/25
PROJECT ID	119380
SUBSET	8
TOTAL	52
SHEET	P.321
TOTAL	365



PLAN



ELEVATION

1	10/13/25	TURN ELECTRIC LEVEL BACK ON

LEGEND

* ELEVATIONS ARE TAKEN AT THE FRONT FACE OF THE BACKWALL.

☆☆ GROUND PLATE (SEE STD. DWG. HL-50.21, SHEET 4 OF 4).

\# STEP IN SEAT UNDER SEISMIC BLOCK.

INDICATES 4" POLYSTYRENE FILLER BETWEEN EXIST. ABUTMENT WINGWALL AND NEW APPROACH SLAB.

** PROVIDE TEMPORARY CAPS AT PHASE LINES FOR 6" PCPP DURING PHASE 2

NOTES

1. PARAPET & MEDIAN BARRIER DETAILS: SEE SHEET 21, 36-38 OF 52.
2. 4" POLYSTYRENE UNDER APPROACH SLAB: 4" POLYSTYRENE IS INCLUDED WITH THE REINFORCED CONCRETE APPROACH SLABS WITH QC/QA CONCRETE (T=15"), AS PER PLAN.
3. SEISMIC PEDESTAL DETAILS: SEE SHEET 20 OF 52.
4. STRUCTURE GROUNDING IS INCLUDED WITH ITEM 625 - STRUCTURE GROUNDING SYSTEM.
6. REINFORCING STEEL SPLICE LENGTHS: SHALL BE 3'-1" FOR HORIZONTAL #5 BARS, 4'-0" FOR HORIZONTAL #6 BARS, 2'-4" FOR VERTICAL #5 BARS AND 2'-10" FOR VERTICAL #6 BARS.

REAR ABUTMENT PLAN AND ELEVATION - 1
BRIDGE NO. CUY-77-15.75
IR 77 OVER E. 14TH ST.

SFN 1806904
DESIGN AGENCY
DESIGNER BLN | CHECKER DHT
REVIEWER DLR 08/04/25
PROJECT ID 119380
SUBSET 13 | TOTAL 52
SHEET P.326 | TOTAL 365

CUY-77-15.46/VAR

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1	10/13/25	DUPLICATE LABELS DELETED

LEGEND

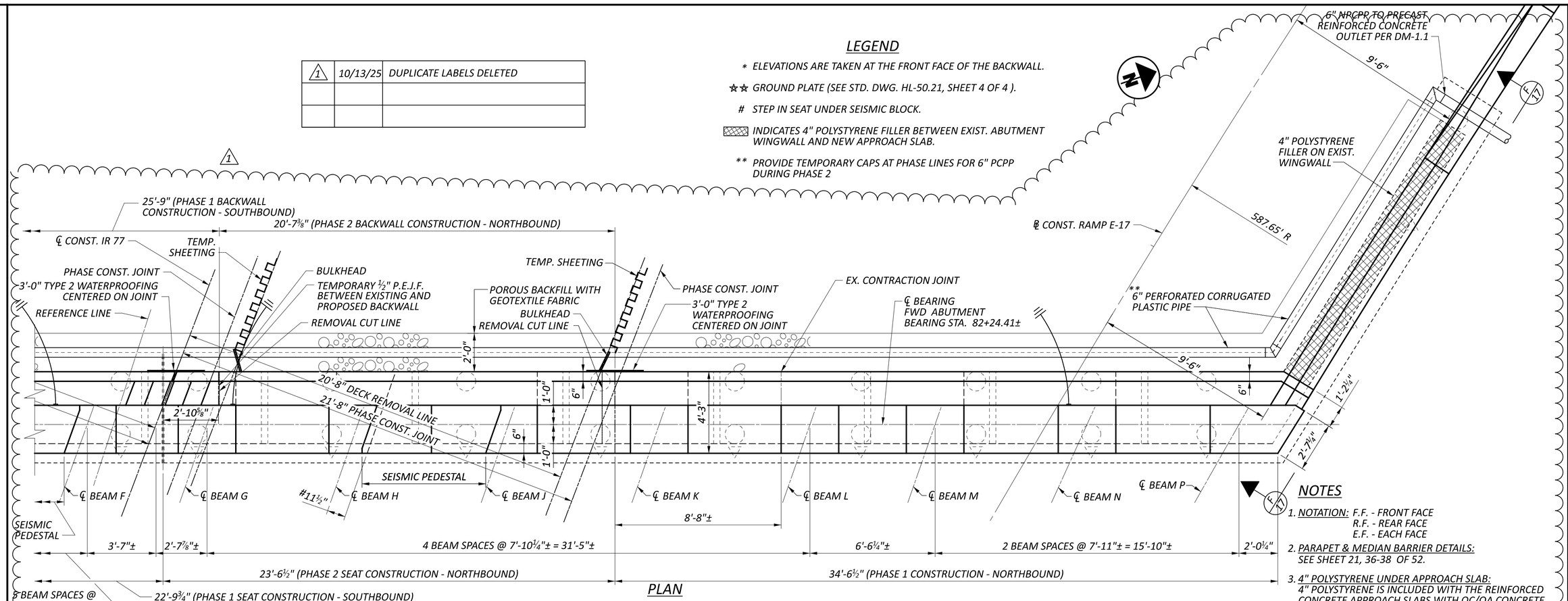
* ELEVATIONS ARE TAKEN AT THE FRONT FACE OF THE BACKWALL.

☆☆ GROUND PLATE (SEE STD. DWG. HL-50.21, SHEET 4 OF 4).

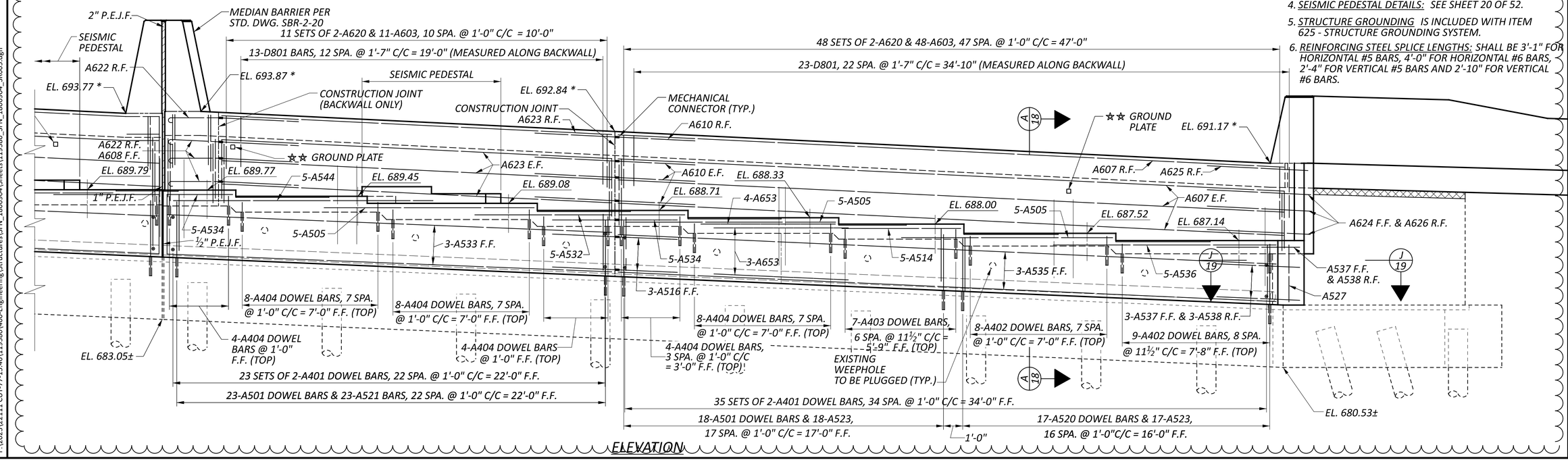
\# STEP IN SEAT UNDER SEISMIC BLOCK.

INDICATES 4" POLYSTYRENE FILLER BETWEEN EXIST. ABUTMENT WINGWALL AND NEW APPROACH SLAB.

** PROVIDE TEMPORARY CAPS AT PHASE LINES FOR 6" PCPP DURING PHASE 2



PLAN



ELEVATION

NOTES

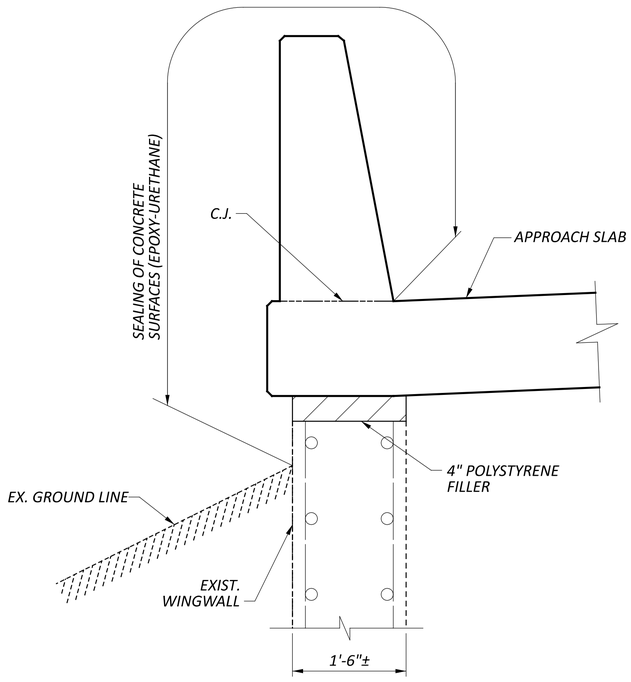
1. NOTATION: F.F. - FRONT FACE
   R.F. - REAR FACE
   E.F. - EACH FACE
2. PARAPET & MEDIAN BARRIER DETAILS: SEE SHEET 21, 36-38 OF 52.
3. 4" POLYSTYRENE UNDER APPROACH SLAB: 4" POLYSTYRENE IS INCLUDED WITH THE REINFORCED CONCRETE APPROACH SLABS WITH QC/QA CONCRETE (T=15"), AS PER PLAN.
4. SEISMIC PEDESTAL DETAILS: SEE SHEET 20 OF 52.
5. STRUCTURE GROUNDING IS INCLUDED WITH ITEM 625 - STRUCTURE GROUNDING SYSTEM.
6. REINFORCING STEEL SPLICE LENGTHS: SHALL BE 3'-1" FOR HORIZONTAL #5 BARS, 4'-0" FOR HORIZONTAL #6 BARS, 2'-4" FOR VERTICAL #5 BARS AND 2'-10" FOR VERTICAL #6 BARS.

FORWARD ABUTMENT PLAN AND ELEVATION - 2
BRIDGE NO. CUY-77-15.75
IR 77 OVER E. 14TH ST.

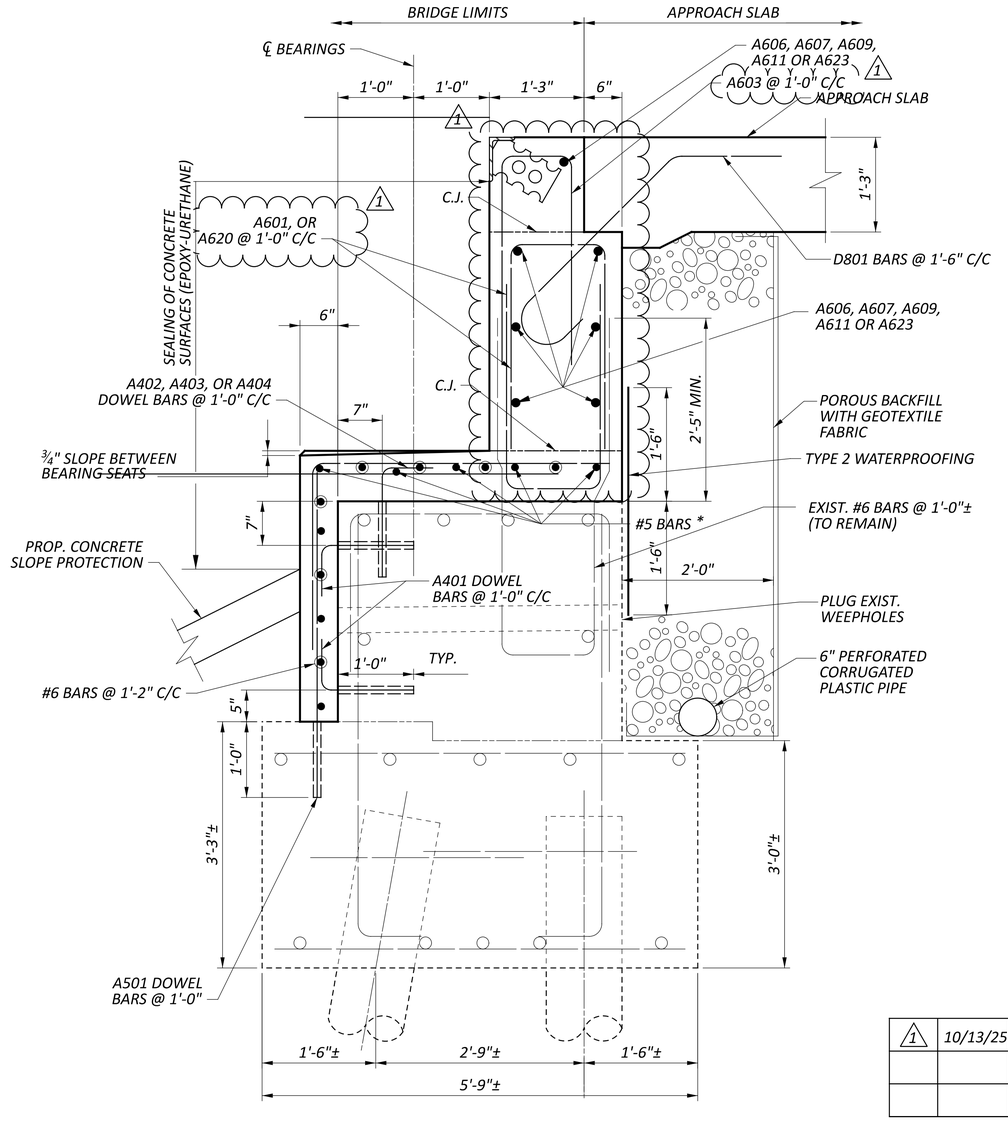
SFN	1806904
DESIGN AGENCY	
DESIGNER	BLN
CHECKER	DHT
REVIEWER	DLR 08/04/25
PROJECT ID	119380
SUBSET	16
TOTAL	52
SHEET	P.329
TOTAL	365

CUY-77-15.46/VAR

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SECTION G-G



SECTION A-A

LEGEND

◉ - 7-A653 CENTERED ON EX. CONTRACTION JOINTS

* SEE ABUTMENT ELEVATIONS FOR REINFORCING BAR NUMBERS

1	10/13/25	REVISE A601, A603 AND A620 REINFORCING STEEL LENGTHS

NOTES

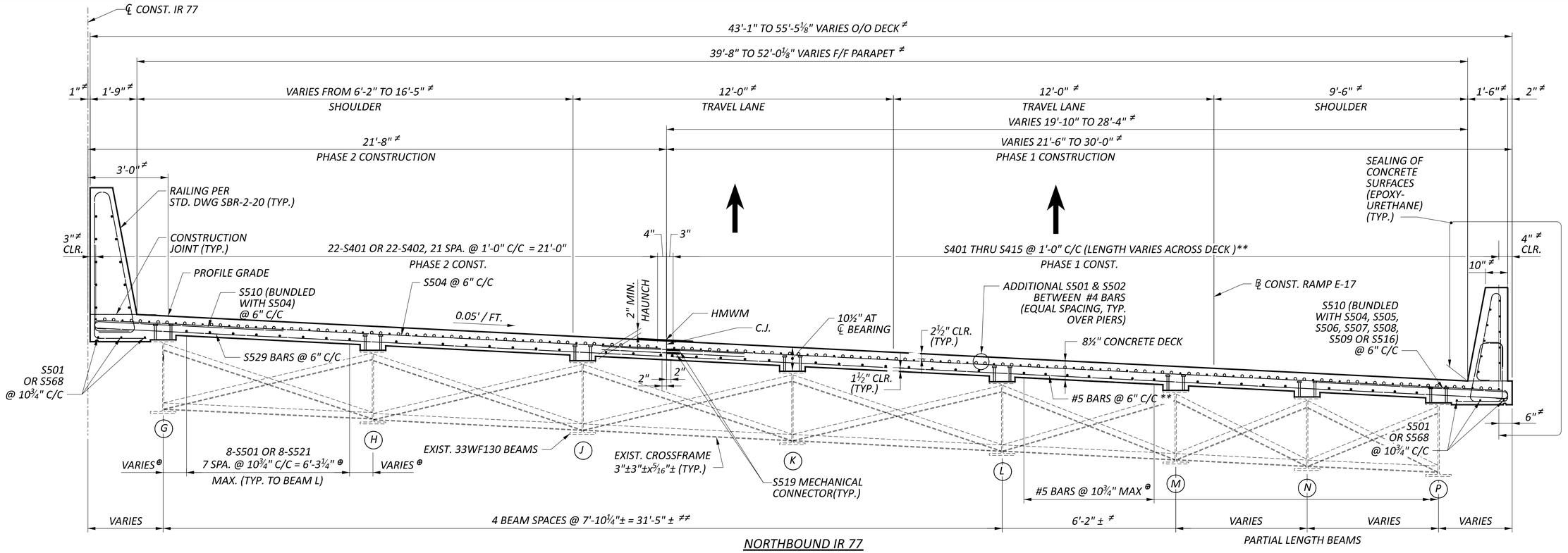
1. NOTATION: P2NB - PHASE 2 NORTHBOUND
   P1SB - PHASE 1 SOUTHBOUND
2. SECTION A-A: FOR LOCATION SEE SHEETS 13, 14, 15, AND 16 OF 52.
3. SECTION G-G: FOR LOCATIONS SEE SHEETS 17 OF 52.
4. SEISMIC PEDESTALS: FOR LOCATION SEE SHEETS 13, 14, 15, AND 16 OF 52.

ABUTMENT DETAILS - 1
BRIDGE NO. CUY-77-15.75
IR 77 OVER E. 14TH ST.

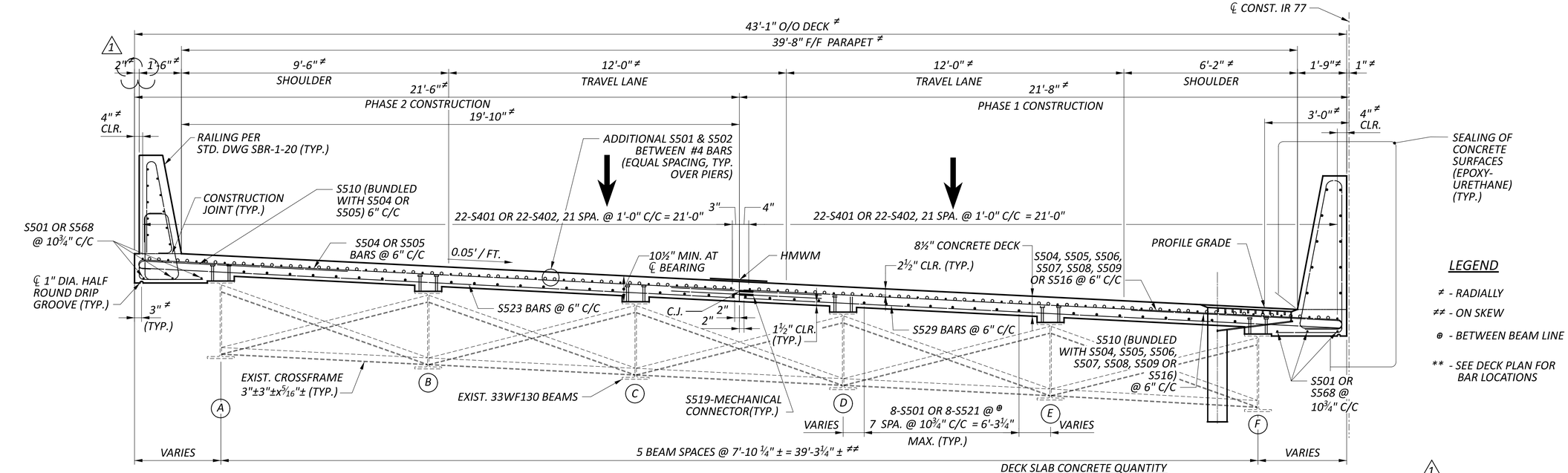
SFN 1806904
DESIGN AGENCY
DESIGNER BLN | CHECKER DHT
REVIEWER DLR 08/04/25
PROJECT ID 119380
SUBSET 18 | TOTAL 52
SHEET P.331 | TOTAL 365

CUY-77-15.46/VAR

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NORTHBOUND IR 77



SOUTHBOUND IR 77

TRANSVERSE SECTION

LEGEND

≠ - RADIALLY

≠≠ - ON SKEW

⊕ - BETWEEN BEAM LINE

** - SEE DECK PLAN FOR BAR LOCATIONS

DECK SLAB CONCRETE QUANTITY

THE ESTIMATED QUANTITY OF DECK SLAB CONCRETE IS BASED ON THE CONSTANT DECK SLAB THICKNESS, AS SHOWN, PLUS THE QUANTITY OF CONCRETE THAT FORMS EACH BEAM/GIRDER HAUNCH. THE ESTIMATE ASSUMES AN AVERAGE HAUNCH THICKNESS OF 3 INCHES AND A HAUNCH WIDTH EQUAL TO THE TOP FLANGE WIDTH. DEVIATE FROM THIS HAUNCH THICKNESS AS NECESSARY TO PLACE THE DECK SURFACE AT THE FINISHED GRADE.

THE HAUNCH THICKNESS WAS MEASURED AT THE CENTERLINE OF THE BEAM/GIRDER, FROM THE SURFACE OF THE DECK TO THE BOTTOM OF THE TOP FLANGE MINUS THE DECK SLAB THICKNESS. THE AREA OF ALL EMBEDDED STEEL PLATES HAS BEEN DEDUCTED FROM THE HAUNCH QUANTITY IN ACCORDANCE WITH 511.23.

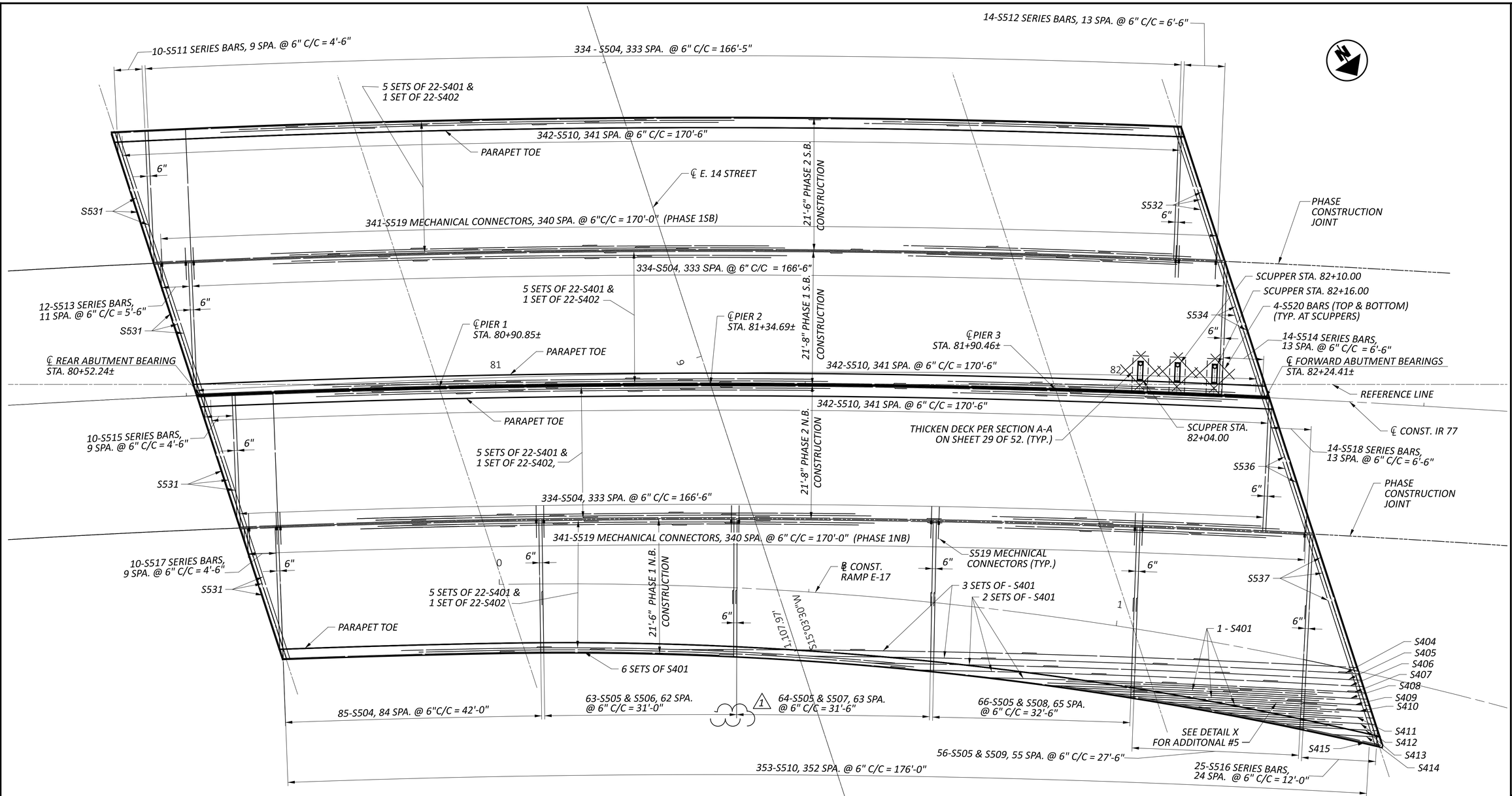
1	10/13/25	REVISE NOTE, REVISE DIMENSION ARROWHEADS

TRANSVERSE SECTION
BRIDGE NO. CUY-77-15.75
IR 77 OVER E. 14TH ST.

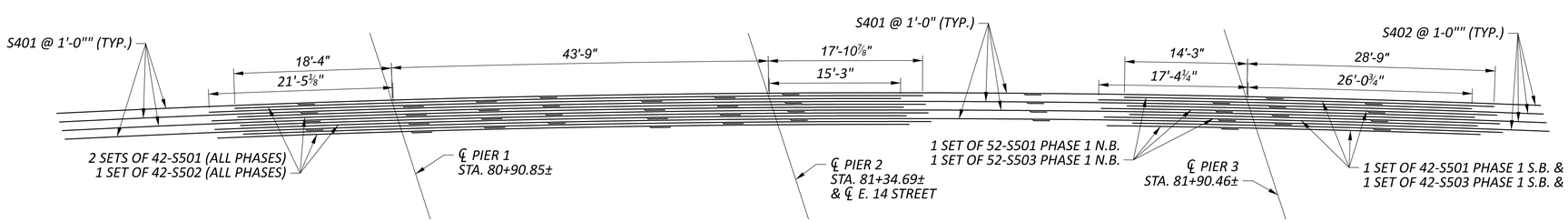
SFN	1806904
DESIGN AGENCY	
DESIGNER	BLN
CHECKER	DHT
REVIEWER	DLR 08/04/25
PROJECT ID	119380
SUBSET	26
TOTAL	52
SHEET	P.339
TOTAL	365

CUY-77-15.46/VAR

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DECK PLAN



STAGGER OF ADDITONAL #5 BARS OVER PIERS

1	10/13/25	REVISE DIMENSION

NOTES:

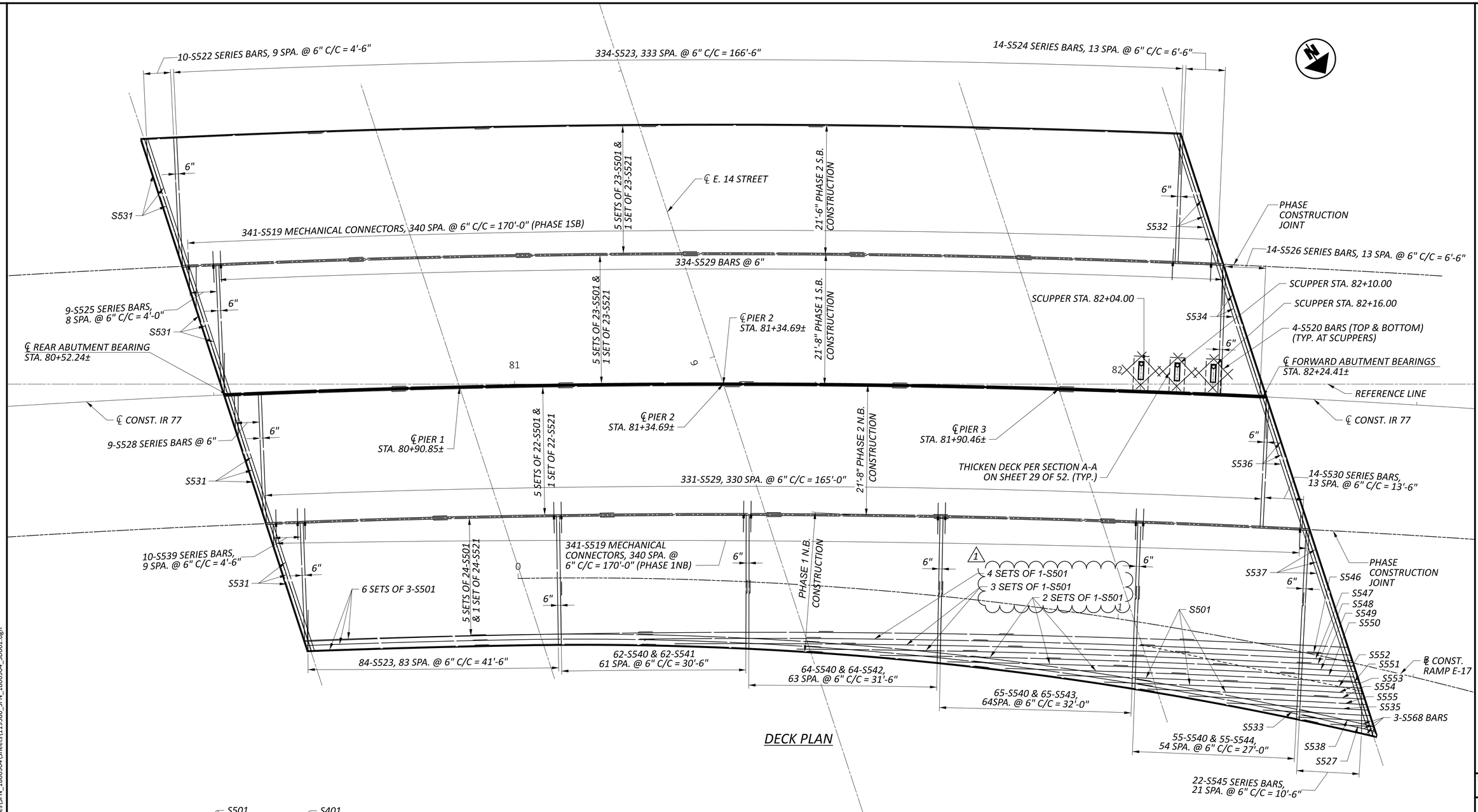
1. REINFORCING STEEL SPLICE LENGTHS: SHALL BE 1'-10" FOR #4 BARS, 2'-3" FOR #5 BARS
2. DETAIL X: SEE SHEET 28 OF 52
3. FOR SPACING OF LONGITUDINAL REINFORCING STEEL, SEE TRANSVERSE SECTION, SHEET 26 OF 52.

DECK PLAN - TOP REINFORCING
BRIDGE NO. CUY-77-15.75
IR 77 OVER E. 14TH ST.

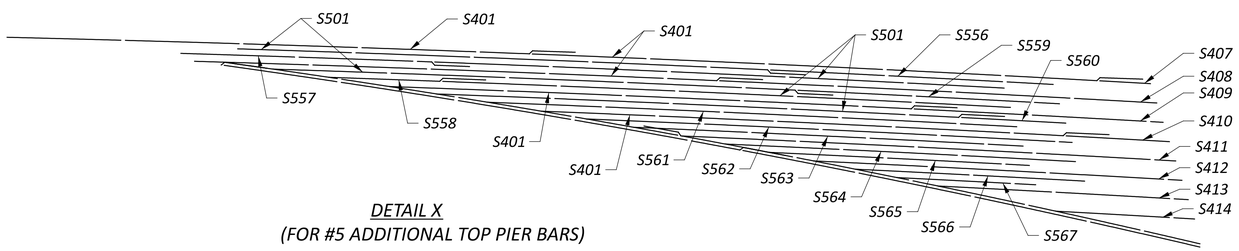
SFN 1806904
DESIGN AGENCY
DESIGNER BLN | CHECKER DHT
REVIEWER DLR 08/04/25
PROJECT ID 119380
SUBSET 27 | TOTAL 52
SHEET P.340 | TOTAL 365

CUY-77-15.46/VAR

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/9/2025 TIME: 11:11:03 AM USER: RBrokaw
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\Structures\SFN_1806904\Sheets\119380_SFN_1806904_SD001.dgn



DECK PLAN



DETAIL X
(FOR #5 ADDITIONAL TOP PIER BARS)

1	10/13/25	REVISE REINFORCING NUMBERS

NOTES:

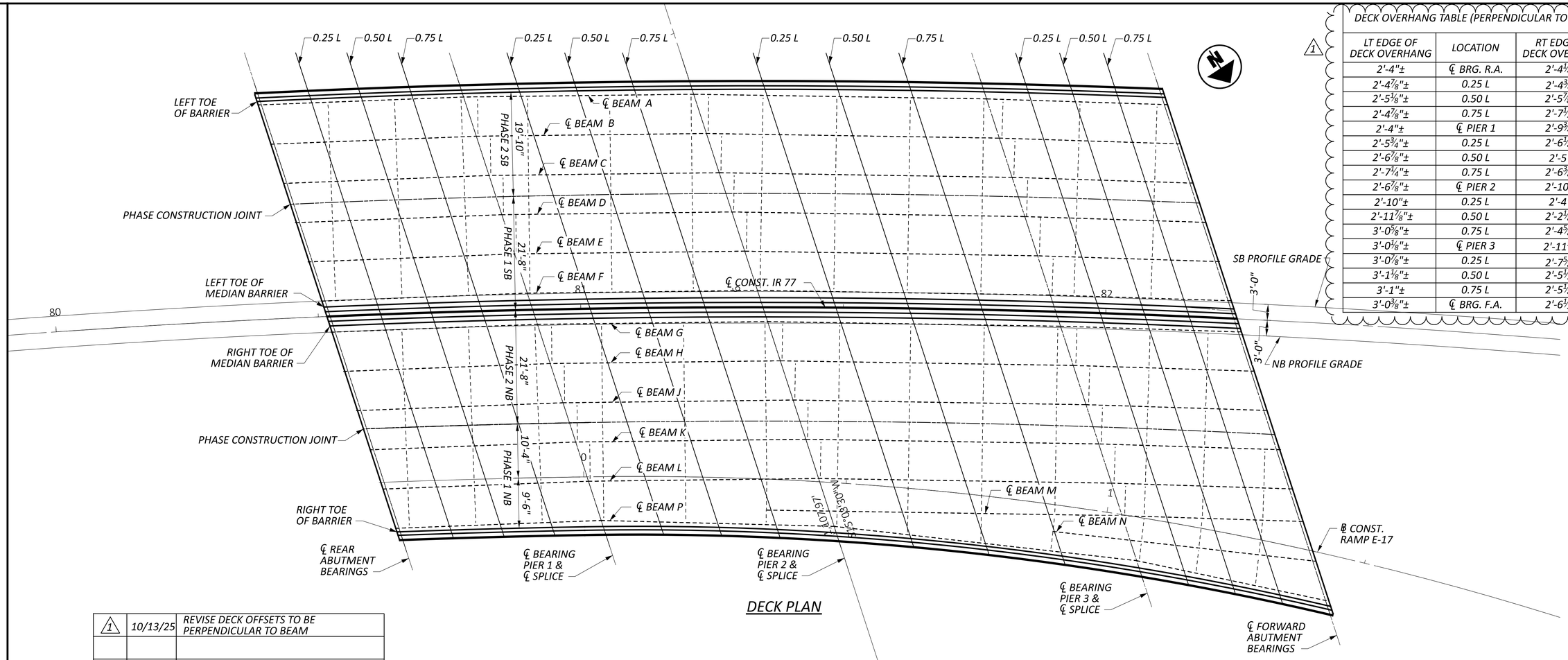
1. REINFORCING STEEL SPLICE LENGTHS: SHALL BE 1'-10" FOR #4 BARS, 2'-3" FOR #5 BARS
2. DETAIL X: SEE SHEET 27 OF 52 LOCATION OF DETAIL X
3. FOR SPACING OF LONGITUDINAL REINFORCING STEEL, SEE TRANSVERSE SECTION, SHEET 26 OF 52.

DECK PLAN - BOTTOM REINFORCING
BRIDGE NO. CUY-77-15.75
IR 77 OVER E. 14TH ST.

CUY-77-15.46/VAR

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/9/2025 TIME: 11:19:16 AM USER: RBrokaw
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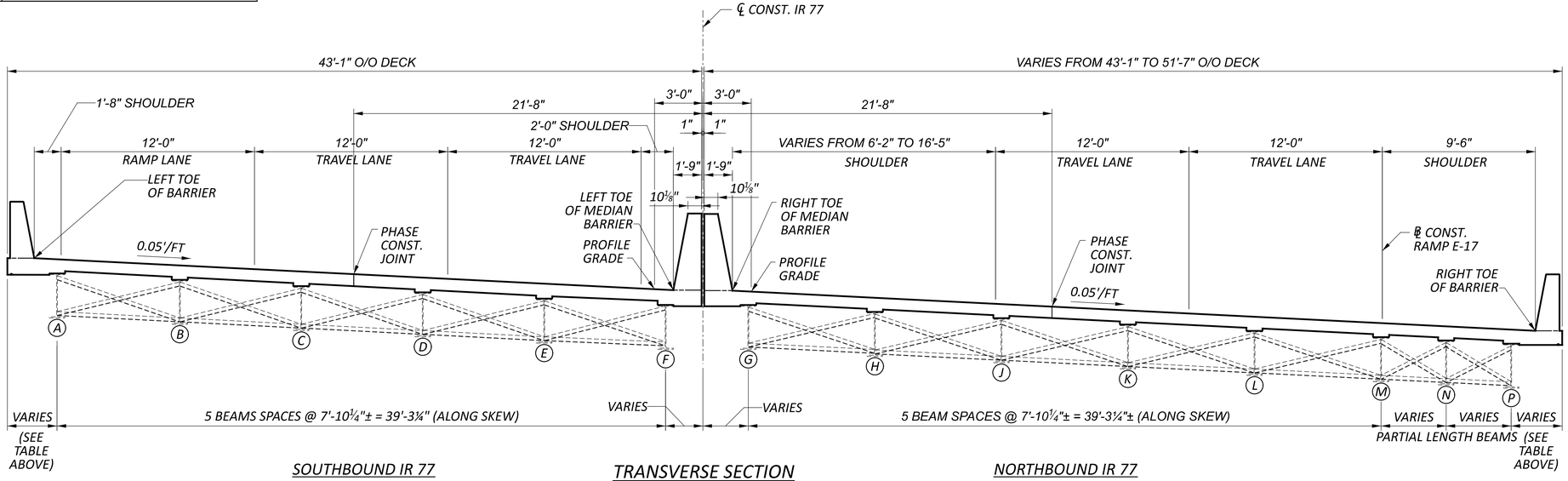
SFN 1806904
DESIGN AGENCY
DESIGNER BLN | CHECKER DHT
REVIEWER DLR 08/04/25
PROJECT ID 119380
SUBSET 28 | TOTAL 52
SHEET P.341 | TOTAL 365



DECK PLAN

DECK OVERHANG TABLE (PERPENDICULAR TO BEAM)		
LT EDGE OF DECK OVERHANG	LOCATION	RT EDGE OF DECK OVERHANG
2'-4"±	℄ BRG. R.A.	2'-4¼"±
2'-4⅞"±	0.25 L	2'-4¾"±
2'-5⅛"±	0.50 L	2'-5⅛"±
2'-4⅞"±	0.75 L	2'-7½"±
2'-4"±	℄ PIER 1	2'-9¾"±
2'-5¾"±	0.25 L	2'-6⅛"±
2'-6⅞"±	0.50 L	2'-5"±
2'-7¼"±	0.75 L	2'-6⅜"±
2'-6⅞"±	℄ PIER 2	2'-10¾"
2'-10"±	0.25 L	2'-4"±
2'-11⅞"±	0.50 L	2'-2⅛"±
3'-0⅝"±	0.75 L	2'-4⅝"±
3'-0⅛"±	℄ PIER 3	2'-11½"±
3'-0⅞"±	0.25 L	2'-7⅜"±
3'-1⅛"±	0.50 L	2'-5½"±
3'-1"±	0.75 L	2'-5⅛"±
3'-0⅜"±	℄ BRG. F.A.	2'-6½"±

1	10/13/25	REVISE DECK OFFSETS TO BE PERPENDICULAR TO BEAM



SOUTHBOUND IR 77 — TRANSVERSE SECTION — NORTHBOUND IR 77

DECK KEY PLAN
BRIDGE NO. CUY-77-15.75
IR 77 OVER E. 14TH ST.

SFN 1806904

DESIGN AGENCY

DESIGNER	CHECKER
BLN	DHT

REVIEWER: DLR 08/04/25

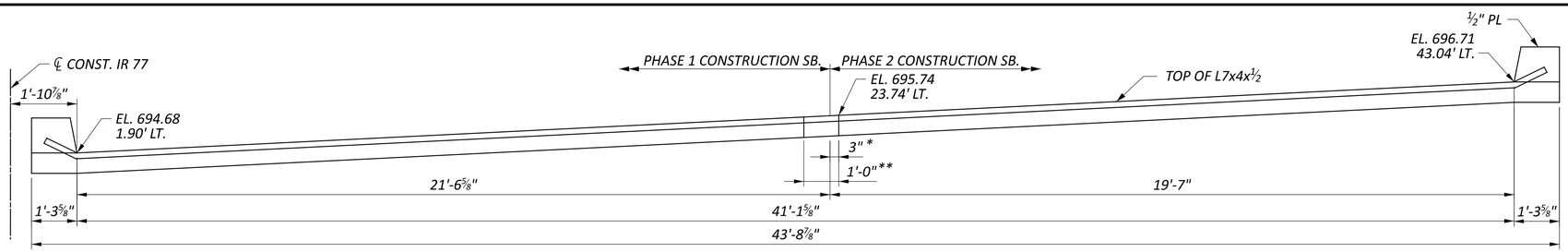
PROJECT ID: 119380

SUBSET	TOTAL
30	52

SHEET	TOTAL
P.343	365

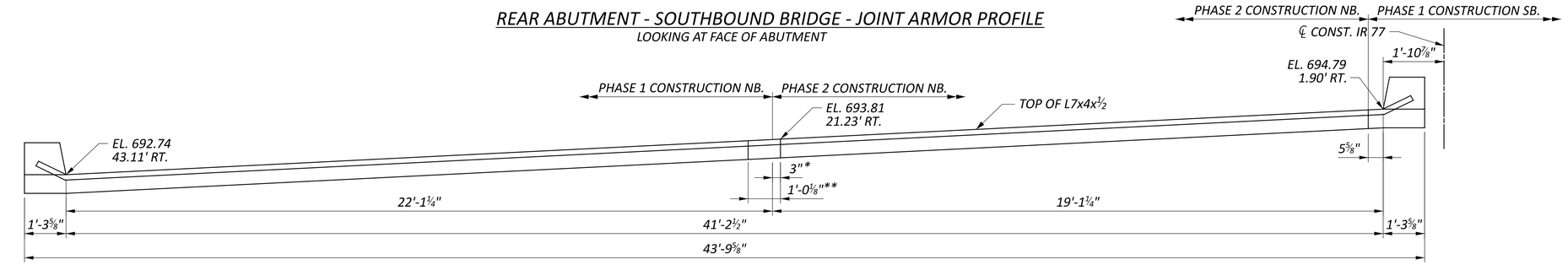
CUY-77-15.46/VAR

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/10/2025 TIME: 10:58:09 AM USER: RBrokaw
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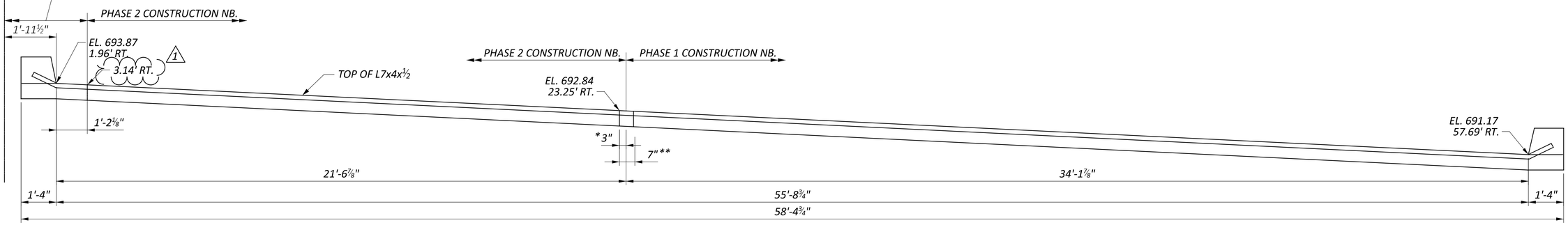
REAR ABUTMENT - SOUTHBOUND BRIDGE - JOINT ARMOR PROFILE

LOOKING AT FACE OF ABUTMENT



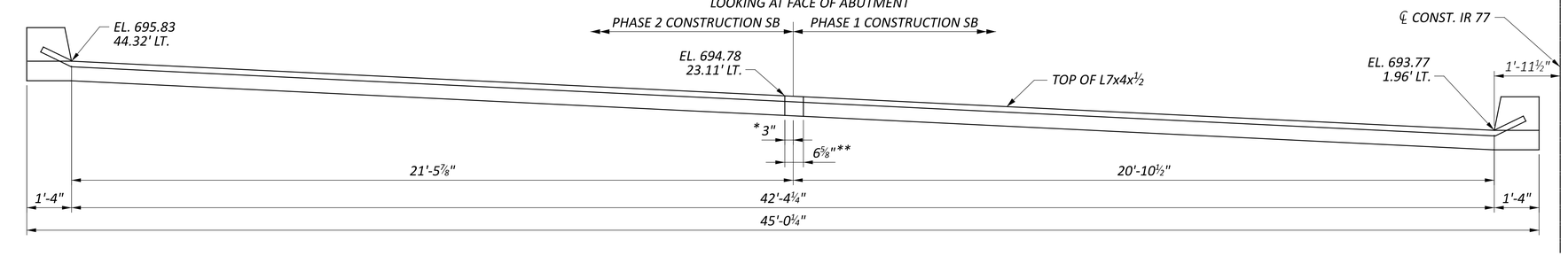
REAR ABUTMENT - NORTHBOUND BRIDGE - JOINT ARMOR PROFILE

LOOKING AT FACE OF ABUTMENT



FORWARD ABUTMENT - NORTHBOUND BRIDGE - JOINT ARMOR PROFILE

LOOKING AT FACE OF ABUTMENT



FORWARD ABUTMENT - SOUTHBOUND BRIDGE - JOINT ARMOR PROFILE

LOOKING AT FACE OF ABUTMENT

LEGEND

* - BUTT JOINT IN L4x7x½" (ABUTMENT) MEASURED FROM BACKWALL CONSTRUCTION JOINT.

** - OFFSET TO BUTT JOINT IN MC12x45 (SUPERSTRUCTURE)

1	10/13/25	REVISE FROM INCHES TO FEET

NOTES

1. REAR ABUTMENT MOVEMENT RANGE 0.76 INCHES
2. FORWARD ABUTMENT MOVEMENT RANGE 0.81 INCHES
3. ROADWAY GRADE VARIES
4. FOR EXPANSION JOINT DETAILS NOT SHOWN , REFER TO STANARD DRAWING EXJ-4-87.
5. ALL MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO FABRICATE AND INSTALL THE NEW STRIP SEAL JOINTS SHALL BE INCLUDED FOR PAYMENT WITH ITEM 516 - STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL.
6. FOR PHASE CONSTRUCTION DETAILS, SEE SHEETS 6 AND 7 OF 52.

EXPANSION JOINT DETAILS - 1
BRIDGE NO. CUY-77-15.75
IR 77 OVER E. 14TH ST.

SFN 1806904
DESIGN AGENCY
DESIGNER BLN | CHECKER DHT
REVIEWER DLR 08/04/25
PROJECT ID 119380
SUBSET 34 | TOTAL 52
SHEET P.347 | TOTAL 365

CUY-77-15.46/VAR

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/10/2025 TIME: 11:01:51 AM USER: RBrokaw
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\Structures\SFN_1806904\Sheets\119380_SFN_1806904_SX001.dgn

MARK	NUMBER								TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS						
	REAR				FORWARD														
	S.B. P1	S.B. P2	N.B. P1	N.B. P2	S.B. P1	S.B. P2	N.B. P1	N.B. P2					A	B	C	D	E	R	INC
ABUTMENTS (60KSI, EPOXY COATED)(CONTINUED)																			
A529						5			5	6'-4"	33	STR							
A530					3				3	22'-5"	70	STR							
A531					5				5	4'-3"	22	STR							
A532					5				5	5'-6"	29	STR							
A533								3	3	23-2"	73	STR							
A534								5	5	3'-5"	18	STR							
A535							3		3	35'-0"	110	STR							
A536							5		5	15'-8"	82	STR							
A537							4		4	5'-4"	22	19	3'-1"	1'-2 ¾"	1'-11 ½"				
A538							4		4	8'-7"	36	10	3'-1 ¼"	1'-10 ¾"	1'-5"	3'-8 ½"			
A539							1		1	5'-8"	6	1	3'-1"	2'-9"					
A540						3			3	3'-7"	11	1	2'-11"	0'-10"					
A541	8			8	8			8	32	5'-1"	170	1	3'-1"	2'-2"					
A542	8			8	8			8	32	3'-1"	103	STR							
A543	5								5	13'-0"	68	STR							
A544					5			5	10	13'-7"	142	STR							
A545			1						1	4'-7"	5	40	2'-5 ¼"	1'-1 ¾"	0'-10 ¼"	0'-6"	0'-8"		
A546			1						1	8'-5"	9	1	2'-8"	5'-11"					
A547			1						1	7'-4"	8	1	2'-8"	4'-10"					
A548						1			1	8'-9"	9	1	2'-11"	6'-0"					
A549						1			1	8'-2"	9	1	2'-11"	5'-5"					
A550						1			1	4'-7"	5	40	2'-3 ¾"	1'-3"	0'-10 ¼"	0'-5 ¾"	0'-8 ¼"		
1 A601	54	44	40	40					178	7'-1"	1894	2	3'-0"	1'-5"	3'-0"				
A602			2						2	8'-7"	26	2	3'-2"	2'-7"	3'-2"				
A603	27	21	22	20	27	23	48	11	199	6'-1"	1818	2	2'-9"	0'-11"	2'-9"				
A604			1						1	6'-4"	10	2	2'-9"	1'-2"	2'-9"				
A605			3						3	9'-4"	42	9	1'-2 ½"	4'-2 ¾"	3'-10 ¾"	1'-5"			
A606			7		7				14	22'-5"	471	STR							
A607	7								7	23'-1"	243	STR							
A608	4				3				7	7'-5"	78*	41	4'-0"	0'-2"	2'-5"				
A609				7					7	19'-0"	200	STR							
A610	7		7		7		7		28	8'-4"	351*	38	4'-0"	0'-2"					
A611		7							7	22'-10"	240	STR							
A612		1							1	5'-9"	9	2	2'-9"	0'-7"	2'-9"				
A613		4							4	8'-7"	52	2	3'-9"	1'-5"	3'-9"				
A614		5							5	3'-1"	23	2	1'-0"	1'-5"	1'-0"				
A615			2						2	9'-8"	29	2	3'-1"	3'-10"	3'-1"				
A616			1						1	6'-5"	10	2	2'-9"	1'-3"	2'-9"				
A617						3			3	9'-8"	44	9	1'-6 ¾"	4'-2 ¾"	4'-1"	1'-6"			
A618			2			1			3	2'-3"	10	1	1'-5"	1'-0"					
1 A619						7			7	22'-2"	233	STR							
A620					46	40	96	22	204	6'-7"	2017	2	2'-9"	1'-5"	2'-9"				
A621					8				8	7'-3"	87	2	3'-1"	1'-5"	3'-1"				
A622	3				4				7	7'-0"	74*	41	4'-0"	0'-2"	2'-0"				
A623								7	7	32'-0"	337	STR							
A624							3		3	5'-1"	23	19	4'-7"	0'-5"	0'-3"				
A625							1		1	5'-5"	8	19	4'-0"	1'-3"	0'-9"				
A626							3		3	5'-9"	26	19	4'-1 ¾"	1'-4 ¼"	0'-10"				
A627							4		4	6'-5"	39	2	3'-0"	0'-9"	3'-0"				
A628							2		2	5'-8"	17	2	2'-9"	0'-6"	2'-9"				
A629						2			2	9'-10"	30	2	3'-1"	4'-0"	3'-1"				
A630						1			1	6'-7"	10	2	2'-9"	1'-5"	2'-9"				
A631	NOT USED																		
A632	NOT USED																		
A633	8				8				16	13'-3"	221	35	0'-9"	1'-5"	1'-0"	4'-7"		0'-2"	
A634		8	7						15	4'-1"	63	37	0'-9"	0'-9 ½"	1'-5"	1'-0"	0'-7"		
A635		8	7						15	6'-7"	102	23	0'-6"	3'-3"	3'-3"			0'-2"	
A636	9			9					18	4'-1"	110	1	2'-3"	2'-0"					
A637								6	6	3'-8"	33	1	2'-0"	1'-10"					
SUB-TOTAL THIS SHEET											10,020	ITEM 509 - EPOXY COATED STEEL REINFORCEMENT							

1	10/13/25	REVISE REINFORCING STEEL

LEGEND

 # BARS TO BE DOWELED INTO EXISTING STRUTURE

** WEIGHT DOES NOT INCLUDE THE WEIGHT OF THE MECHANICAL CONNETOR.*

NOTES

1. NOTATION: N.B. P1 - NORTHBOUND PHASE 1
   N.B. P2 - NORTHBOUND PHASE 2
   S.B. P1 - SOUTHBOUND PHASE 1
   S.B. P2 - SOUTHBOUND PHASE 2

2. ABUTMENT REINFORCING STEEL LIST CONTINUED ON SHEET 47 OF 52 .

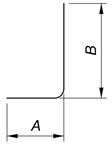
ABUTMENT REINFORCING STEEL LIST - 2
BRIDGE NO. CUY-77-15.75
IR 77 OVER E. 14TH ST.

SFN 1806904
DESIGN AGENCY
DESIGNER BLN | CHECKER DHT
REVIEWER DLR 08/04/25
PROJECT ID 119380
SUBSET 46 | TOTAL 52
SHEET P.359 | TOTAL 365

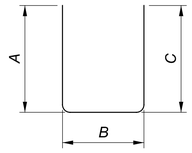
CUY-77-15.46/VAR

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/10/2025 TIME: 2:05:14 PM USER: RBrokaw
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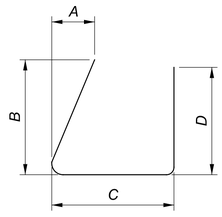
MARK	NUMBER								TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS						
	REAR				FORWARD														
	S.B. P1	S.B. P2	N.B. P1	N.B. P2	S.B. P1	S.B. P2	N.B. P1	N.B. P2					A	B	C	D	E	R	INC
ABUTMENTS (60KSI, EPOXY COATED)																			
A638			2						2	9'-6"	29	2	3'-2"	3'-6"	3'-2"				
#A639			2			2			4	3'-0"	18	STR							
A640						2			2	8'-4"	26	2	3'-2"	2'-4"	3'-2"				
A641						2			2	9'-5"	28	2	3'-2"	3'-5"	3'-2"				
A642						2			2	9'-10"	30	2	3'-2"	3'-10"	3'-2"				
A643			3						3	4'-9"	21	40	2'-5 ¼"	1'-11 ¾"	0'-10 ¼"	0'-7 ¼"	0'-9 ½"		
A644						3			3	4'-9"	21	40	2'-3 ¾"	1'-3"	0'-10 ¼"	0'-6 ¾"	0'-9 ¾"		
A645			3						3	7'-1"	32	24	0'-6"	3'-2"				0'-2 ¼"	
A646			3						3	5'-6"	25	24	0'-6"	2'-4 ¼"				0'-2 ¼"	
A647			1				1		2	4'-2"	13	2	1'-0"	2'-6"	1'-0"				
A648						3			3	9'-1"	41	24	0'-6"	4'-2"				0'-2 ¼"	
A649						3			3	6'-1"	27	24	0'-6"	2'-8"				0'-2 ¼"	
A650						1			1	4'-4"	7	2	1'-0"	2'-8"	1'-0"				
A651							4		4	8'-4"	50	24	0'-6"	3'-9 ½"				0'-2 ¼"	
A652							3		3	5'-9"	26	24	0'-6"	2'-6"				0'-2 ¼"	
A653							7		7	7'-0"	74	STR							
D801	17	15	15	13	19	15	23	13	130	4'-11"	1707	18	2'-8 ¼"	1'-0"	1'-0"				
SUB-TOTAL THIS SHEET											2,175	1							
SUB-TOTAL PREVIOUS SHEET											10,020								
SUB-TOTAL FIRST SHEET											4,971	1							
GRAND TOTAL											17,166	ITEM 509 - EPOXY COATED STEEL REINFORCEMENT							



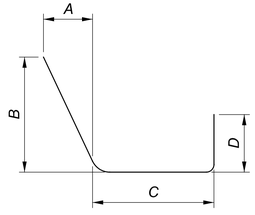
TYPE-1



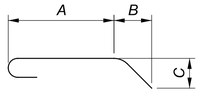
TYPE-2



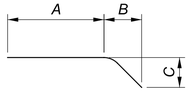
TYPE-9



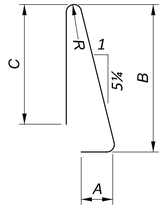
TYPE-10



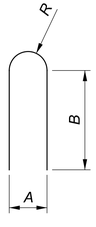
TYPE-18



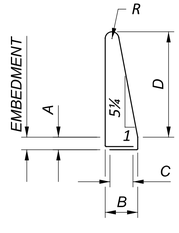
TYPE-19



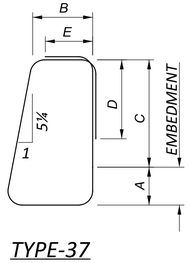
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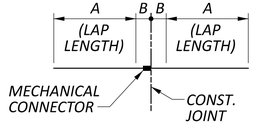
TYPE-24



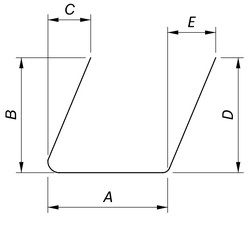
TYPE-35



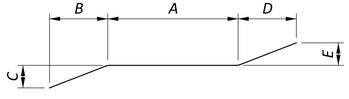
TYPE-37



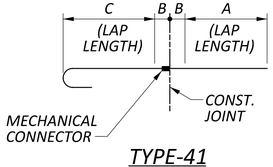
TYPE-38



TYPE-39



TYPE-40



TYPE-41

LEGEND

 # BARS TO BE DOWELED INTO EXISTING STRUTURE

** WEIGHT DOES NOT INCLUDE THE WEIGHT OF THE MECHANICAL CONNETOR.*

1	10/13/25	REVISED WEIGHTS

NOTES

1. NOTATION: N.B. P1 - NORTHBOUND PHASE 1
   N.B. P2 - NORTHBOUND PHASE 2
   S.B. P1 - SOUTHBOUND PHASE 1
   S.B. P2 - SOUTHBOUND PHASE 2

2. BAR SIZE IS INDICATED IN THE BAR MARK. THE FIRST LETTER IDENTIFIES BAR LOCATION, THE NEXT DIGIT INDICATES THE BAR SIZE DESIGNATION, THE REMAINING DIGITS STATE THE SEQUENCE NUMBER.

   EXAMPLE: A501
   A = LOCATION OF THE BAR (ABUTMENT)
   5 = BAR SIZE DESIGNATION
   01 = SEQUENCE NUMBER

BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED.

ALL REINFORCING STEEL TO BE EPOXY COATED.

ABUTMENT REINFORCING STEEL LIST - 3
BRIDGE NO. CUY-77-15.75
IR 77 OVER E. 14TH ST.

SFN 1806904
DESIGN AGENCY
DESIGNER BLN | CHECKER DHT
REVIEWER DLR 08/04/25
PROJECT ID 119380
SUBSET 47 | TOTAL 52
SHEET P.360 | TOTAL 365

CUY-77-15.46/VAR

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/10/2025 TIME: 2:08:41 PM USER: RBrokaw
F:\2023\22111 CUY-77-15.46\119380\000-Engineering\Structures\SFN_1806904\Sheets\119380_SFN_1806904_SL006.dgn