EXISTING LEGEND

- (A) ASPHALT OVERLAY (THICKNESS VARIES; 2.5"-4.5")
  - *BEGIN PROJECT TO STA 684+34.85: 3" TYPICAL (VARIES 2.5" TO 4.5")*
  - *STA 684+34.85 TO STA 768+85.00: 3.75" TYPICAL (VARIES 2.5" TO 4.5")*
- (B) 10" REINFORCED CONCRETE BASE
- (C) SUBBASE: *4" TYPICAL (VARIES 2.75" TO 7")*
- (D) EXISTING GUARDRAIL
- (E) EXISTING CONCRETE BARRIER
- (F) 9" REINFORCED CONCRETE PAVEMENT
- (G) EXISTING CURB
- (H) EXISTING ASPHALT (DEPTH VARIES) — R2

PROPOSED LEGEND

1. ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447), PWL 2025, AS PER PLAN, PG76-22M — R9
2. ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)
3. ITEM 302 - 8.5" ASPHALT CONCRETE BASE, AS PER PLAN, 25.0 MM GYRATORY MIX (TO BE PLACED IN 2 - 4.25" LIFTS) — R9, R1
4. ITEM 304 - 6" AGGREGATE BASE
5. ITEM 407 - TACK COAT
6. ITEM 204 - PROOF ROLLING
7. ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC
8. SUBGRADE TREATMENT, SEE GENERAL NOTES
9. ITEM 452 - 11.5" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P WITH QC/QA
10. ITEM 609 - CURB, TYPE 4-C
11. ITEM 609 - CURB, TYPE 4-A
12. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE B1, AS PER PLAN
13. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C1, AS PER PLAN
14. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D
15. ITEM 659 - SEEDING AND MULCHING
16. ITEM 606 - GUARDRAIL, TYPE MGS
17. ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN
18. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5")
19. ITEM 441 - 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN
20. ITEM 601 - CONCRETE SLOPE PROTECTION
21. ITEM 605 - 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN
22. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C, AS PER PLAN
23. ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), AS PER PLAN, PG70-22M
24. ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (449), AS PER PLAN, VARIABLE, PG 76-22M
25. ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 4, AS PER PLAN
26. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN
27. ITEM 609 - 4" CONCRETE TRAFFIC ISLAND
28. ITEM 622 - CONCRETE BARRIER END SECTION, TYPE D, AS PER PLAN

(CJ) CONSTRUCTION JOINT, CONSTRUCTED AS PER AS-2-15

(LJ) LONGITUDINAL JOINT, CONSTRUCTED AS PER BP-2.1

NOTES:

1. GRADING ON THE TYPICAL SECTIONS IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL CONSTRUCT THE PROPOSED GRADING PER THE CROSS SECTIONS.

TYPICAL SECTION LEGEND

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: BER

REVIEWER: VDK 08/09/23

PROJECT ID: 76779

SHEET: P.0015 TOTAL: P.1587

CUY-90-6.69

MODEL: TYPICAL SECTION LEGEND PAPERSIZE: 34x22 (in.) DATE: 4/25/2025 TIME: 8:59:07 AM USER: jsima
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\202000062\76779\400-Engineering\Roadway\Sheets\76779_GY001.dgn

DRAINAGE (CONTINUED)

ITEM 611 - CONDUIT BORED OR JACKED

WHERE IT IS SPECIFIED THAT A CONDUIT BE INSTALLED BY THE METHOD OF BORING OR JACKING, NO TRENCH EXCAVATION SHALL BE CLOSER THAN 6 FEET TO THE EDGE OF ANY TRAVEL LANE.

THE CONTRACTOR SHALL SUBMIT A CONDUIT INSTALLATION PLAN REQUIRED BY 611.04.B TO THE ENGINEER FOR APPROVAL. ADDITIONALLY, THE CONTRACTOR SHALL SUBMIT EXCAVATION BRACING PLANS TO THE ENGINEER FOR APPROVAL ACCORDING TO 503.03 FOR ALL CONDUITS THAT WILL BE BORED OR JACKED.

PROVIDE A STEEL CASING PIPE CONFORMING TO 748.06. JOINTS WITH A CIRCUMFERENTIAL FULLY PENETRATING B-U4B WELD THAT IS PERFORMED BY A CERTIFIED WELDER FOR WELDING CODE AMERICAN WELDING SOCIETY (AWS) D1.1 OR MACHINED INTERLOCKING JOINTS ARE PERMITTED. THE INSTALLED CASING PIPE IS THE STORM WATER CONVEYANCE CARRIER UNLESS OTHERWISE SPECIFIED IN THE PLANS. HYDROSTATIC TESTING IS NOT REQUIRED FOR THE CASING PIPE.

ITEM 611 - CONDUIT MISC.: (##)" CONDUIT, TYPE (X) ROCK CUT

BASED ON THE SUBSURFACE INVESTIGATION, SOME DRAINAGE CONDUIT RUNS ARE LOCATED IN AREAS WHERE ROCK IS LIKELY TO BE ENCOUNTERED. THE UNIT PRICE BID FOR EACH CONDUIT RUN SHALL INCLUDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE EACH CONDUIT INSTALLATION AND WILL BE PAID FOR ACCORDING TO THE PERTINENT 611 ITEM BASED ON THE CONDUIT SIZE AND TYPE:

ITEM 611 - CONDUIT, MISC.: (##)" CONDUIT, TYPE (X), ROCK CUT

ITEM 611 - CONDUIT BORED OR JACKED, AS PER PLAN (2), (##)" , TYPE (X)

BASED ON THE SUBSURFACE INVESTIGATION, SOME DRAINAGE CONDUIT RUNS ARE LOCATED IN AREAS WHERE ROCK IS LIKELY TO BE ENCOUNTERED.

WHERE IT IS SPECIFIED THAT A CONDUIT BE INSTALLED BY THE METHOD OF BORING OR JACKING, NO TRENCH EXCAVATION SHALL BE CLOSER THAN 6 FEET TO THE EDGE OF ANY TRAVEL LANE.

THE CONTRACTOR SHALL SUBMIT A CONDUIT INSTALLATION PLAN REQUIRED BY 611.04.B TO THE ENGINEER FOR APPROVAL. ADDITIONALLY, THE CONTRACTOR SHALL SUBMIT EXCAVATION BRACING PLANS TO THE ENGINEER FOR APPROVAL ACCORDING TO 503.03 FOR ALL CONDUITS THAT WILL BE BORED OR JACKED.

PROVIDE A STEEL CASING PIPE CONFORMING TO 748.06. JOINTS WITH A CIRCUMFERENTIAL FULLY PENETRATING B-U4B WELD THAT IS PERFORMED BY A CERTIFIED WELDER FOR WELDING CODE AMERICAN WELDING SOCIETY (AWS) D1.1 OR MACHINED INTERLOCKING JOINTS ARE PERMITTED. THE INSTALLED CASING PIPE IS THE STORM WATER CONVEYANCE CARRIER UNLESS OTHERWISE SPECIFIED IN THE PLANS. HYDROSTATIC TESTING IS NOT REQUIRED FOR THE CASING PIPE.

THE UNIT PRICE BID FOR EACH CONDUIT RUN SHALL INCLUDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE EACH CONDUIT INSTALLATION AND WILL BE PAID FOR ACCORDING TO THE PERTINENT 611 ITEM BASED ON THE CONDUIT SIZE AND TYPE:

ITEM 611 - CONDUIT BORED OR JACKED, AS PER PLAN (2), (##)", TYPE (X)

R1 R4

MANHOLES, CATCH BASINS AND INLETS REMOVED OR ABANDONED

CAREFULLY REMOVE AND STORE ALL CASTINGS WITHIN THE RIGHT OF WAY FOR SALVAGE BY DEPARTMENT FORCES.

PAYMENT FOR ALL OF THE ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 202 ITEM.

CONDUITS WITH PREMIUM JOINTS

DUE TO TUFA CONCERNS, ALL PROPOSED CONDUITS SHALL BE FITTED WITH PREMIUM, WATER-TIGHT JOINTS.

PAYMENT FOR PREMIUM JOINTS IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 ITEM.

MANHOLE, MISC.: MH-3 MODIFIED

R1

R9

MANHOLE, MISC: MH-3 MODIFIED AT STA 582+86.41, 76.94' LT SHALL BE PRE-CAST PER SCD MH-3 EXCEPT THE BASE SHALL BE POURED IN THE FIELD. PRIOR TO THE REMOVAL OF THE EXISTING MANHOLE, THE CONTRACTOR SHALL INSPECT THE BASE AND CONFIRM NO VOIDS OR UNDERMINING IS PRESENT. IF VOIDS ARE IDENTIFIED, THE CONTRACTOR SHALL FILL THE AREA WITH LSM AS DIRECTED BY THE ENGINEER. IF REQUIRED, THE PROPOSED MANHOLE SHALL BE FIELD MODIFIED AS NEEDED TO MATCH THE DIMENSIONS OF THE 60"OUTFALL CONDUIT. PLACE THE MANHOLE IN-LINE WITH THE EXISTING 60"OUTFALL CONDUIT AND CAST-IN-PLACE THE MANHOLE BASE AND INVERTS IN THE FIELD. INSTALL THE PROPOSED 66"CONDUIT AND GROUT ALL JOINTS BETWEEN THE CONDUITS AND THE MANHOLE. THIS ITEM SHALL INCLUDE ALL LABOR, MATERIALS, TOOLS, AND INCIDENTALS REQUIRED TO INSTALL THE MANHOLE INCLUDING LSM IF REQUIRED.

DRAINAGE STRUCTURE ADJUSTMENTS FOR POSITIVE DRAINAGE

WHEN DRAINAGE STRUCTURES ARE CONSTRUCTED IN A PHASE PRIOR TO THE PLACEMENT OF SURFACE COURSE PAVEMENT, THE CONTRACTOR SHALL PLACE THE CASTINGS TO THE ELEVATION OF THE PAVEMENT COURSE ON WHICH TRAFFIC IS MAINTAINED TO ENSURE POSITIVE DRAINAGE. AT NO TIME IS A CASTING PERMITTED TO EXTEND ABOVE THE PAVEMENT COURSE ON WHICH TRAFFIC IS MAINTAINED. IMMEDIATELY PRIOR TO THE PLACEMENT OF THE SURFACE COURSE, RE-ADJUST ALL CASTINGS AND PLACE CONCRETE BOX-OUTS AS REQUIRED IN THE STANDARD DRAWINGS, AS APPLICABLE.

PAYMENT FOR RE-ADJUSTMENTS TO THE FINAL SURFACE COURSE ELEVATION IS INCLUDED IN THE PERTINENT 611 ITEMS.

CONDUIT VERIFICATION PRIOR TO FINAL ACCEPTANCE

IMMEDIATELY PRIOR TO FINAL INSPECTION PER C&MS 109.12.A, THE CONTRACTOR SHALL PERFORM A SECOND PERFORMANCE INSPECTION OF ALL CONDUITS AND DRAINAGE STRUCTURES PER THE REQUIREMENTS OF C&MS 611.12. AS PART OF THIS INSPECTION, THE CONTRACTOR SHALL IDENTIFY AND CLEAN ANY CONDUITS OR DRAINAGE STRUCTURES FOUND TO HAVE DIRT, DEBRIS OR ANY OTHER FOREIGN MATTER PRESENT. PROVIDE A REPORT DETAILING THE FINDINGS ALONG WITH THE VIDEO OF THE INSPECTION THAT DOCUMENTS THE CLEAN CONDITION.

PAYMENT FOR THIS WORK IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 ITEMS.

R9

PAVEMENT

PART-WIDTH CONSTRUCTION

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

ITEM 441 – ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), AS PER PLAN, PG 70-22M

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

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

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

- THE TSR TEST PER SUPPLEMENT 1051 IS REQUIRED AND THE MINIMUM TSR IS 0.80 FOLLOWING THE 150 MM GYRATORY COMPACTED SPECIMEN PROCEDURE. USE ANTISTRIP ADDITIVE AS SPECIFIED IN 440.06.
- USE 150 MM DIAMETER SUPERPAVE GYRATORY COMPACTOR MOLDS. FILL MOLDS DURING COMPACTION IN ONE LIFT AND NOT TWO AS YOU WOULD DO WITH 302 MIXES. DO NOT SPADE. VOLUMETRIC PILL HEIGHTS OF 110 TO 120 MM. USE A PILL HEIGHT OF 95 MM FOR STABILITY AND FLOW AND CONVERT, IF NEEDED, USING TABLE 302-02-2.
- REPLACE TABLE 302-02-1 WITH THE FOLLOWING:

TABLE 302.02-1 MIX COMPOSITION

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

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

R9

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

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

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

TABLE 403.06-1

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

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

- FOLLOW REQUIREMENTS OF 446 AND REPLACE MSG COMPARISON IN TABLE 403.10-1 WITH 0.012.
- FOR INFORMATION ONLY AND WHEN REQUESTED BY THE DEPARTMENT UP TO FIVE DIFFERENT PRODUCTION DAYS, HOT-COMPACTED 10 GYRATORY SPECIMENS PER SUPPLEMENT 1033. DO NOT TEST THESE PILLS.
- NOTIFY ERIC BIEHL - OMM 614-275-1380 AND JULIA MILLER – OCA 614-466-3165 TWO WEEKS PRIOR TO PLANNED BEGINNING PRODUCTION AND PLACEMENT. YOU MAY EMAIL THEM AS WELL.

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

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

- OBTAIN 6-INCH DIAMETER CORES ON EACH LIFT PLACED.
- OBTAIN JOINT CORES AT COLD LONGITUDINAL JOINTS SUCH THAT THE CORE'S CLOSEST EDGE IS 6 INCHES (152 MM) FROM THE EDGE OF THE MAT.
- PAY FACTORS FOR EACH LIFT OF 302 APP WILL BE AS SPECIFIED IN THE FOLLOWING TABLE.

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

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

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

PAVEMENT (CONTINUED)

ITEM 209 - RESHAPING UNDER GUARDRAIL, AS PER PLAN

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

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

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

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

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

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

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

R1

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

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

1. MEDIAN AND OUTSIDE SHOULDER OFFSET FOR SHOULDERS LESS THAN 6': DIMENSION A AND B ARE EQUAL TO 6".
2. MEDIAN AND OUTSIDE SHOULDER OFFSET FOR SHOULDERS 6' TO 12': DIMENSION A AND B ARE EQUAL TO HALF THE SHOULDER WIDTH MINUS 12".
3. MEDIAN AND OUTSIDE SHOULDER OFFSET FOR SHOULDERS GREATER THAN 12': DIMENSION A AND B ARE EQUAL TO 5'.

THE FOLLOWING ESTIMATED QUANTITY SHALL BE USED TO CONSTRUCT ITEM 618 – RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE), AS PER PLAN:

ITEM 618 - RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE), AS PER PLAN 16.79 MILES

R9

ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447), PWL 2025, AS PER PLAN, PG76-22M

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

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.

ALL REQUIREMENTS OF C&MS ITEM 442 APPLY EXCEPT AS SHOWN.

MAT DENSITY ACCEPTANCE - FOLLOW THE REQUIREMENTS OF 447 MAT DENSITY ACCEPTANCE, EXCEPT AS MODIFIED BELOW.

OBTAIN 6-INCH DIAMETER CORES FOR EACH LOT.

THE PWL CALCULATOR, LOCATED ON THE ODOT WEBSITE AT THE OFFICE OF CONSTRUCTION ADMINISTRATION, WILL BE USED TO DETERMINE THE LOT PWL AND THE LOT AASHTO PAY FACTORS.

THE DEPARTMENT WILL DETERMINE THE PAY FACTOR FOR EACH LOT CORED BY THE FOLLOWING TABLE.

LOWER SPECIFICATION LIMIT	PAY FACTOR CRITERIA	PAY FACTOR (PF)
92.6%	IF AVE DENSITY IS ≥ 93% AND PWL ≥ 90	PF = 1 ON AASHTO PF WHICHEVER IS GREATER
	IF 90 > PWL > 50	AASHTO PF
	IF PWL ≤ 50	REMOVE AND REPLACE

ITEM 442 – ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (449), AS PER PLAN, PG 76-22M

THIS ITEM SHALL BE USED FOR THE INTERMEDIATE COURSE(S) FOR THE FEATHER SECTION FROM STA 768+85 TO STA 769+35.

ALL PROVISIONS LISTED IN THE ITEM 442 – ASPHALT CONCRETE SURFACE COURSE, 12.5MM,TYPE A (447), AS PER PLAN, PG 76-22M NOTE ABOVE SHALL APPLY EXCEPT VARIABLE LIFT THICKNESSES ARE PERMITTED. THE MAXIMUM LIFT THICKNESS OF ANY INTERMEDIATE COURSE SHALL BE 2 INCHES.

LONGITUDINAL JOINTS IN FLEXIBLE PAVEMENT

LONGITUDINAL JOINTS BETWEEN A PAVEMENT LANE AND ADJOINING SHOULDER OR SPEED CHANGE LANE, AND BETWEEN A SPEED CHANGE LANE AND THE ADJOINING SHOULDER SHALL BE MADE THE SAME DAY. ALL LONGITUDINAL JOINTS SHALL BE HOT WITH THE EXCEPTION OF ONE COLD JOINT PER PHASE AS SHOWN IN THE MAINTENANCE OF TRAFFIC PLAN. LOCATE THE COLD JOINT ALONG THE CENTERLINE OR A LANE LINE. ALL LONGITUDINAL JOINT LOCATIONS SHALL BE AS APPROVED BY THE ENGINEER.

ASPHALT CONCRETE SURFACE COURSE SEALING REQUIREMENTS

IN ADDITION TO THE GUTTER SEALING REQUIREMENTS SPECIFIED IN SCD BP-3.1 AND C&MS 401.15, AFTER COMPLETION OF THE SURFACE COURSE, THE CONTRACTOR SHALL USE A CERTIFIED 702.01 PG BINDER TO SEAL THE FOLLOWING LOCATIONS:

- ALL CASTINGS INCLUDING BUT NOT LIMITED TO MONUMENTS, MANHOLES, WATER VALVES, CATCH BASINS, CURB INLETS.
- BUTT JOINTS AND FEATHER JOINTS INCLUDING BRIDGE APPROACHES.
- FORWARD JOINT FOR DRIVEWAY ASPHALT AND TRAILING JOINT WHEN BUTTING TO EXISTING ASPHALT DRIVE.
- PERIMETER OF ALL PAVEMENT REPAIRS OR OTHER ASPHALT INLAYS WHEN PAVEMENT REPAIRS/INLAYS ARE NOT OVERLAID WITH AN ASPHALT CONCRETE SURFACE COURSE.
- ALL COLD LONGITUDINAL JOINTS BETWEEN PAVED SHOULDERS AND GUARDRAIL ASPHALT.
- THE MATERIAL USED SHALL BE A CERTIFIED 702.01 PG BINDER. THE WIDTH OF THE SEALER SHALL BE 2-3 INCHES.

ANY ADDITIONAL COSTS ASSOCIATED WITH THE WORK IDENTIFIED IN THIS NOTE SHALL BE INCLUDED IN THE APPROPRIATE ASPHALT CONCRETE SURFACE COURSE ITEM OF WORK.

LONGITUDINAL JOINT SPACING IN RIGID PAVEMENT

PROVIDE LONGITUDINAL JOINTS PER SCD BP-6.1. IN LOCATIONS WHERE THE TRAVEL LANES TAPER AND THE TYPICAL LONGITUDINAL JOINT SPACING PER SCD BP-6.1 CANNOT BE PROVIDED, THE WIDTH BETWEEN ADJACENT JOINTS SHALL VARY FROM 8'-0" ON THE SINGLE LANE RAMP END TO 12'-0" ON THE TWO LANE RAMP END WITHIN THE LIMITS OF THE PAVEMENT TAPER AREA. WHERE A TWO-LANE RAMP TRANSITIONS TO A THREE-LANE RAMP, THE LONGITUDINAL JOINT ALONG THE TAPERED PAVEMENT EDGE WILL BEGIN AT A TRANSVERSE JOINT WHERE THE WIDTH OF THE ADDITIONAL LANE IS A MINIMUM OF 2'-0" WIDE.

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (442)

A QUANTITY OF THIS ITEM HAS BEEN PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THE ITEM SHALL BE USED FOR REPAIRING THE LOCATIONS OF PREVIOUSLY LAID INTERMEDIATE COURSE THAT HAVE BEEN USED FOR MAINTAINING TRAFFIC FOR LONGER THAN FOUR MONTHS THAT EXHIBIT SURFACE DETERIORATION. IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATED AREA WITHIN THE PROJECT. THE ENGINEER WILL DETERMINE WHICH AREAS ARE TO BE REPAIRED. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THIS ITEM SHALL BE PERFORMED WITHIN SEVEN CALANDAR DAYS PRIOR TO THE PAVING OF THE FINAL SURFACE COURSE.

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

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (442) 2,000 SQ YD

GENERAL NOTES

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
BER

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0050 TOTAL P.1587

MODEL: Sheet 6 PAPERSIZE: 34x22 (in.) DATE: 4/25/2025 TIME: 8:54:45 AM USER: jsina
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WATER WORK

WATER LINE RELOCATION

THE GRADE OF THE PROPOSED PAVEMENT AT THE EXISTING 12" WATER LINE CROSSING IR 90 NEAR STA 602+59 REQUIRES THE WATER LINE TO BE RELOCATED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 638, ALL PROVISIONS IN THE CITY OF LAKEWOOD SUPPLEMENTAL SPECIFICATION LS 638 SHALL APPLY. WHERE THERE IS A CONTRADICTION, THE CITY OF LAKEWOOD STANDARDS WILL TAKE PRECEDENCE. LS 638 CAN BE FOUND AT THE FOLLOWING LOCATION:

http://www.lakewoodoh.gov/wp-content/uploads/2016/02/LS-638-Water-Distribution-System-Master-2019.pdf

ALL WATERLINE MATERIALS USED SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS SET FORTH IN THE CITY OF LAKEWOOD STANDARDS AS WELL AS PROPOSAL NOTE 133.

THE CONTRACTOR SHALL FIRST INSTALL THE 24" STEEL CASING PIPE UNDER IR 90 AND SHALL SUBSEQUENTLY INSTALL THE 12" WATER LINE AS SHOWN ON SHEETS P.0395 AND P.0522. THIS WORK SHALL BE COMPLETED PRIOR TO WHEN PROPOSED DRAINAGE CONDUITS THAT ARE IN CONFLICT WITH THE EXISTING WATER LINE.

THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF LAKEWOOD TO SCHEDULE AN OUTAGE WHEN MAKING CONNECTIONS WITH THE EXISTING WATER LINE. OUTAGES AND NOTICES THEREOF SHALL COMPLY WITH THE CITY OF LAKEWOOD LS 638. THE CONTRACTOR SHALL COORDINATE FINAL FLUSHING AND TESTING WITH THE CITY OF LAKEWOOD TO BE COMPLETED AT THE TIME THE CONTRACTOR MAKES FINAL CONNECTIONS.

PAYMENT FOR WATER LINE SHALL INCLUDE ALL APPURTENANCES INCLUDING BUT NOT LIMITED TO PIPE, JOINTS, FITTINGS AND THRUST BLOCKING.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN PROVIDED FOR THE WORK DESCRIBED ABOVE AND PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS.

ITEM 202 - PIPE REMOVED, 24" DIAMETER AND UNDER 238 FT

ITEM 638 - 24" STEEL ENCASEMENT PIPE, BORED OR JACKED 170 FT

ITEM 638 - WATER WORK, MISC.: 12"X 12" TAPPING SLEEVE, VALVE AND VALVE BOX, CITY OF LAKEWOOD 2 EACH

ITEM 638 - WATER WORK, MISC.: 12" WATER MAIN DIP CLASS 56 MECHANICAL JOINTS AND FITTINGS, CITY OF LAKEWOOD 238 FT

R9

R8

TRAFFIC SURVEILLANCE

DETECTION MAINTENANCE

IF VEHICLE DETECTION BECOMES UNEXPECTEDLY DISABLED, REQUIRES MODIFICATION, OR IS SCHEDULED TO BE TEMPORARILY REMOVED DURING THE CONSTRUCTION PROJECT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER AND CITY OF ROCKY RIVER, LAKEWOOD AND CLEVELAND ENGINEER.

IF THE LOSS OF VEHICLE DETECTION IS KNOWN PRIOR TO THE START OF CONSTRUCTION, IT SHALL BE DISCUSSED AT THE PRECONSTRUCTION MEETING. AT SUCH TIME, THE CITY OF ROCKY RIVER, LAKEWOOD AND CLEVELAND ENGINEER SHALL ADVISE THE PROJECT ENGINEER AND CONTRACTOR ON THE APPROPRIATE ACTION TO RECTIFY ANY LOSS OF VEHICLE DETECTION. THIS MAY INCLUDE PLACING THE TRAFFIC SIGNAL ON MINIMUM OR MAXIMUM RECALL, MODIFYING THE MINIMUM GREEN TIMES, AND REMOVING THE MALFUNCTIONING DETECTION FROM SERVICE. WHERE NONINTRUSIVE DETECTION (I.E. VIDEO, RADAR) ALREADY EXISTS, THE CONTRACTOR SHALL INSURE THAT DETECTION IS OPERATING AND MAINTAINED BY RECONFIGURING THE DETECTION UNITS ACCORDINGLY DURING ALL CONSTRUCTION PHASES. THIS IS TO AVOID THE SIGNAL FROM MAXING OUT THE EFFECTED SIGNAL PHASE AND CREATING UNNECESSARY DELAYS.

LOCATIONS WHERE NON-INTRUSIVE DETECTION IS PROPOSED AND THE EXISTING VEHICLE DETECTION IS TO BE ABANDON, THE NON-INTRUSIVE VEHICLE DETECTION SHALL BE INSTALLED, CONFIGURED AND MADE FULLY FUNCTIONAL PRIOR TO THE EXISTING DETECTION BEING DISABLED. THE CONTRACTOR SHALL CONTINUE TO MAINTAIN AND MODIFY THE DETECTION UNTIL FINAL ACCEPTANCE OF THE TRAFFIC SIGNAL. THIS IS TO ENSURE VEHICLE DETECTION REMAINS FULLY FUNCTIONAL THROUGHOUT CONSTRUCTION.

PROTECTION OF TRAFFIC MONITORING EQUIPMENT

ATR SITE 571 IS LOCATED WITHIN THE PROJECT LIMITS.

PRIOR TO BEGINNING ANY PAVEMENT ACTIVITIES OR ANY EXCAVATION ACTIVITIES BETWEEN STA 566+00 AND STA 568+00 THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE FROM THE OWNER WILL COORDINATE A TIME FOR THE OWNER/MAINTAINING AGENCY TO DISCONNECT THE EQUIPMENT. FOLLOWING THE DISCONNECTION BY THE OWNER, THE CONTRACTOR WILL BE ALLOWED TO PERFORM THEIR PAVEMENT ACTIVITIES, INCLUDING PAVEMENT REMOVAL. THE REMOVED LOOPS AND SENSORS BECOME THE PROPERTY OF THE CONTRACTOR.

DURING THE MEETING, THE OWNER/MAINTAINING AGENCY WILL IDENTIFY EQUIPMENT LOCATIONS. DO NOT DISTURB PULL BOXES, CONTROLLERS, CABINETS, POLES AND CONDUITS. ANY DAMAGE WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND REPAIRS MUST BE ACCEPTED BY THE OWNER.

ITEM 632 DETECTOR LOOP, AS PER PLAN

ALL STOP LINE INDUCTANCE DETECTOR LOOPS SHOWN IN THE PLANS SHALL BE THE POWERHEAD CONFIGURATION SHOWN ON TC-82.10. THE WIDTH SHALL BE AS SPECIFIED ON TC-82.10 AND THE LENGTH SHALL MATCH THE EXISTING DETECTOR LOOP LENGTH, WITH A MAXIMUM LENGTH OF 35'. THE STOP LINE DETECTOR LOOPS SHALL NOT BE WIRED TO ANY OTHER LOOPS AND SHALL HAVE THEIR OWN DETECTOR CHANNEL. THE LOCATION OF THESE LOOPS SHALL BE SUCH THAT THE POWERHEAD IS LOCATED AT THE STOP LINE, NOT PAST IT.

ALL DILEMMA ZONE INDUCTANCE DETECTOR LOOPS CALLED FOR IN THE PLANS SHALL BE THE ANGULAR DESIGN DETECTION (A.D.D.) LOOP AS SHOWN ON TC-82.10. DIMENSIONS SHALL BE AS SPECIFIED ON TC-82.10.

SYSTEM LOOPS SHALL BE AS DEPICTED IN THE PLANS.

ALL STOP LINE DETECTION SHALL BE TESTED FOR A BICYCLE TARGET AND ALL DILEMMA DETECTION ZONES SHALL BE TESTED FOR A MOTORCYCLE TARGET.

WHEN REPLACING THE LOOP DETECTORS, THE LOOP DETECTOR WIRE SHALL BE REPLACED TO THE PULL BOX OR POLE, WHICHEVER IS APPLICABLE, UNDER ITEM 632 AND TC-82.10. THE NEW CABLE SPLICE KITS SHALL BE INCLUDED IN THIS PAY ITEM.

THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER AND THE CITY OF ROCKY RIVER, LAKEWOOD AND CLEVELAND ENGINEER, SEVEN (7) DAYS PRIOR TO REMOVAL OF EXISTING LOOP DETECTORS TO ADJUST SIGNAL OPERATION AS NEEDED.

THE CITY OF ROCKY RIVER, LAKEWOOD AND CLEVELAND ENGINEER SHALL CONCUR WITH THE LOCATION OF THE REPLACEMENT LOOPS.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DESCRIBED ABOVE:

ITEM 632 DETECTOR LOOP, AS PER PLAN..... 10 EACH

INCIDENTALS

ITEM SPECIAL (69091000) - AS-BUILT CONSTRUCTION PLANS

PRIOR TO THE FINAL ACCEPTANCE OF THE PROJECT, PROVIDE AS-BUILT PLANS OF THE ENTIRE PROJECT TO THE ENGINEER IN THE FOLLOWING FORMATS: DGN FILES AND PDF FILE.

THE AS-BUILT PLANS SHALL INCLUDE ALL ROADWAY, EROSION CONTROL, DRAINAGE, PAVEMENT, TRAFFIC CONTROL, LIGHTING AND STRUCTURAL ITEMS THAT WERE BUILT TO LOCATIONS THAT ARE OUTSIDE CUSTOMARY CONSTRUCTION TOLERANCES AND ITEMS THAT WERE NON-PERFORMED. ALSO INCLUDE LOCATIONS OF ALL UTILITIES THAT WERE FOUND TO BE IN CONFLICT WITH THE PLANS AND WERE SUBSEQUENTLY RELOCATED DURING CONSTRUCTION.

THIS WORK WILL BE PAID UNDER THE LUMP SUM PRICE BID FOR ITEM SPECIAL (69091000) - AS-BUILT CONSTRUCTION PLANS AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THIS ITEM.

ITEM 619 FIELD OFFICE, TYPE C, AS PER PLAN

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

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

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

FURNISH TRASH COLLECTION SERVICE / DUMPSTER.

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

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

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

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

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

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

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

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

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

THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICE IN MONTHS AS FOLLOWS:
ITEM 619 - FIELD OFFICE, TYPE C, AS PER PLAN 48 MNTH

GENERAL NOTES

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER BER
REVIEWER VDK 08/09/23
PROJECT ID 76779
SHEET P.0051 TOTAL P.1587

CUY-90-6.69

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ITEM 611, (MULTIPLE ITEMS), AS PER PLAN

FOR ALL TEMPORARY DRAINAGE ITEMS LISTED IN THE TABLE ON THIS SHEET THAT WILL BE INSTALLED AND SUBSEQUENTLY REMOVED OR ABANDONED SHALL CONFORM TO ALL PROVISIONS OF C&MS 611 EXCEPT 611.04.D, TESTING ACCORDING TO SUPPLEMENT 1015 IN 611.06, AND 611.12. THIS APPLIES TO THE FOLLOWING ITEMS:

611 - 15" CONDUIT, TYPE B, AS PER PLAN

611 - 18" CONDUIT, TYPE B, AS PER PLAN

611 - 21" CONDUIT, TYPE B, AS PER PLAN

611 - 24" CONDUIT, TYPE B, AS PER PLAN

611 - 42" CONDUIT, TYPE C, AS PER PLAN

611 - 60" CONDUIT, TYPE C, AS PER PLAN

611 - CATCH BASIN, NO. 5, AS PER PLAN

R8 *611 - CATCH BASIN, NO. 6, AS PER PLAN*

611 - INLET, NO. 2-A-6, AS PER PLAN

R4 *611 - MANHOLE, NO. 3, AS PER PLAN (3)*

TEMPORARY DRAINAGE

THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE FOR ALL EXISTING STORM SEWER CONDUITS AND STRUCTURES UNLESS OTHERWISE NOTED IN THE PLANS.

CROSSOVER DRAINAGE

SLOTTED DRAINS WILL BE PLACED AT ALL MEDIAN CROSSOVER LOCATIONS DURING MOT. DETAILS FOR THE MEDIAN CROSSOVERS AND THEIR TEMPORARY DRAINAGE ARE DETAILED IN THE MOT PLANS. THESE SLOTTED DRAINS WILL BE TEMPORARILY CONNECTED TO THE CLOSEST EXISTING DRAINAGE STRUCTURE OR OUTLET TO THE EXISTING MEDIAN DITCH DEPENDING ON THE CROSSOVER LOCATION. THE OUTLET LOCATION OF THE SLOTTED DRAINS ARE SHOWN ON THE CROSSOVER DETAILS. SLOTTED DRAIN PIPE SHALL BE SLOPED TO DRAIN TO THE OUTLET LOCATION. THE MEDIAN CROSSOVERS SHOULD BE GRADED TO DRAIN EITHER TO EXISTING DRAINAGE STRUCTURES TO REMAIN, MEDIAN DITCHES, OR THE TEMPORARY SLOTTED DRAINS.

ITEM 614 MAINTAINING TRAFFIC, MISC.: TROUGHS

TEMPORARY TROUGHS WILL BE ADDED THROUGHOUT THE CORRIDOR TO CONTROL THE SPREAD FOR THE TWO-YEAR STORM DURING CONSTRUCTION. THE LOCATION AND SIZE OF THESE TROUGHS ARE SHOWN IN THE MOT PLANS. WHERE THE TROUGHS ARE PLACED WITHIN EXISTING PAVEMENT LIMITS, THE PLAN SPECIFIED DEPTH WILL BE MILLED FROM THE TROUGH AREA SHOWN IN THE PLANS. IN LOCATIONS WHERE THE TROUGHS ARE TO BE PLACED WITHIN PROPOSED PAVEMENT LIMITS, THE INTERMEDIATE COURSE WILL NOT BE PLACED WITHIN THE TROUGH AREAS UNTIL THE MOT PHASES FOR WHICH THEY ARE REQUIRED ARE COMPLETED. A 3:1 SLOPE SHALL BE MAINTAINED ON TROUGHS DEPTHS OVER 1.5". THE ABOVE WORK WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR ITEM 614 MAINTAINING TRAFFIC, MISC.: TROUGHS.

TEMPORARY CONNECTIONS

TO MAINTAIN FLOW, THE EXISTING TRUNK LINE WILL REMAIN IN SERVICE WHILE THE PROPOSED TRUNK LINE IS BEING CONSTRUCTED, UNLESS REMOVAL IS REQUIRED BASED ON THE LOCATION OF THE NEW SEWER.

THE TRUNK LINE DRAINING TO OUTFALL B WILL BE CONSTRUCTED IN PHASE 1, AND WILL REQUIRE REMOVAL OF THE EXISTING SEWER. BOTH PROPOSED AND EXISTING INLETS WILL BE CONNECTED TO THE NEW TRUNK LINE AS IT IS CONSTRUCTED. A TEMPORARY CONNECTION WILL BE REQUIRED FROM D19 TO THE EXISTING MANHOLE TO THE EAST UNTIL THE REMAINDER OF THE TRUNK LINE UNDER PAVEMENT CAN BE COMPLETED IN PHASE 3A.

OUTFALL C WILL BE CONSTRUCTED IN PHASE 1 AND WILL REQUIRE TEMPORARY CONNECTIONS FOR THE INLETS ON THE NORTH SIDE OF IR 90 WB, AS DESCRIBED BELOW.

THE PROPOSED TRUNK LINE FOR OUTFALL D WILL BE INSTALLED DURING PHASE 1 CONSTRUCTION, WITH THE EXISTING TRUNKLINE REMAINING IN SERVICE. TEMPORARY CONNECTIONS WILL BE REQUIRED AS DESCRIBED BELOW. IN ORDER TO MAINTAIN DRAINAGE IN BOTH THE EXISTING AND PROPOSED SYSTEMS, STRUCTURE D140 WILL MAINTAIN THE EXISTING 60" CONDUIT CONNECTING FROM THE EAST UNTIL THE EXISTING SYSTEM IS NO LONGER IN USE. AT THAT TIME, THE EXISTING 60" FROM THE EAST CAN BE REMOVED/PLUGGED AT THE MANHOLE.

OUTFALL E CAN BE CONSTRUCTED IN PHASES 1 AND 3 TO D358. THE CROSSING UNDER RAMP 140-3 WILL BE COMPLETED IN PHASE 5.

OUTFALL M WILL BE CONSTRUCTED UP TO THE POINT WHERE IT TIES IN WITH THE EXISTING TRUNKLINE AT WEST BOULEVARD. THE NEW TRUNKLINE WILL BE CONSTRUCTED IN THE MEDIAN DURING PHASE 1. THE 54" PIPE CROSSING FROM THE MEDIAN TO THE NORTHERN INFIELD WILL BE JACKED/BORED AND THE TRUNKLINE INSTALLATION IN THE INFIELD WILL ALSO TAKE PLACE DURING PHASE 2.

TEMPORARY DRAINAGE CONNECTIONS WILL BE REQUIRED WHEN THE EXISTING BARRIER AND INLETS ARE REMOVED, AND EXISTING INLETS ON THE NORTH AND SOUTH SIDE OF THE HIGHWAY ARE NO LONGER CONNECTED TO THE EXISTING TRUNK LINE. IN GENERAL, THE PROPOSED TRUNK LINE WILL BE CONSTRUCTED DURING THE FIRST ROADWAY PAVEMENT PHASE (PHASES 1 AND 2). WHEN THE NEW TRUNK LINE IS INSTALLED, PORTIONS OF THE EXISTING SYSTEM WILL BE REMOVED AND/OR DISCONNECTED, AND EXISTING INLETS NEED TO BE TEMPORARILY CONNECTED TO MAINTAIN POSITIVE FLOW.

TEMPORARY DRAINAGE CONNECTION TABLE

#	CONNECTION FROM				CONNECTION TO				TEMP. CONDUIT			MOT PHASE CONSTRUCTION	MOT PHASE SERVICE
	STATION	OFFSET	REF. NO.	INVERT	STATION	OFFSET	REF. NO.	INVERT	SIZE	LENGTH	TYPE		
TB-1	332+70	CL			333+00	CL			15	30	B	1	5
TB-2	530+50	3.2' LT	EX	667.34	530+69	2.8' RT	D83	667.25	21	19	B	2	5
TB-3	530+69	69.8' RT	D79	664.42	530+50	72.1' RT	EX	664.33	24	19	C	2	3
TB-4	536+00	79.4' RT	EX	660.89	537+48	85.4' RT	D62	660.16	30	147	C	1	3
TB-5	536+00	CL	EX	672.05	536+65	2.5' RT	D66	671.73	15	65	B	2	5
TB-6	542+01	CL			542+25	CL			15	24	B	1	5
TB-7	542+75	2.0' LT	EX	672.56	542+75	6.4' RT	D26	672.52	18	8	B	2	5
TB-8	545+10	111.7' RT	D19	655.20	545+35	92.0' RT	EX	655.09	42	22	C	1	3
TB-9	547+24	CL	EX	676.23	547+65	2.8' RT	D12	676.03	15	41	B	2	5
TB-10	554+00	75.7' RT	EX	684.45	553+75	76.9' RT	D7	684.33	21	25	C	1	3
TB-11	554+00	CL	EX	686.6	553+75	2.5' RT	D9	686.48	18	25	B	2	5
TB-12	574+00	8.4' RT	D108	685.41	574+25	7.5' RT	EX	685.34	18	25	B	2	5
TB-13	574+25	70.0' RT	EX	684.55	573+94	81.0' RT	D103	684.39	24	32	C	3	5
TB-14	583+24	2.9' LT	D134	690.76	583+08	2.3' LT	EX	690.68	24	16	B	2	5
TB-15	583+17	78.0' LT	EX	689.08	582+86	76.9' LT	D128	688.93	27	31	C	1	5
TB-16	584+62	90.3' LT			TEMPORARY MANHOLE							1	5
TB-17	621+47	50' RT	D220	704.51	621+58	50' RT	EX	707.29	24	11	B	2	3
TB-18	629+57	42.5' RT	D246	708.48	629+50	42.2' RT	EX	711.49	15	7	B	2	3
TB-19	639+00	CL			639+25	7.3' LT			15	25	B	1	5
TB-20	639+25	7.3' LT			TEMPORARY CB NO. 6							1	5
TB-21	639+25	7.3' LT			641+81	7.3' LT			15	255	B	1	5
TB-22	655+00	12.0' RT	EX	725.37	654+95	16.2' LT	D319	725.22	18	30	C	1	3
TB-23	655+00	37.2' LT	EX	724.63	654+95	16.2' LT	D319	724.52	18	21	C	1	4
TB-24	654+98	94.5' RT	D320	722.95	654+98	94.5' RT	EX	726.59				2	3
TB-25	660+50	47.0' RT	EX	739.80	660+50	19.5' RT	D336	739.66	21	27	C	1	3
TB-26	61+67	27.0' LT	D340	744.39	60+53	14.0' RT	EX	743.82	15	115	C	2	3
TB-27	665+09	29.7' RT	D400	752.32	660+50	74.0' RT	EX	745.44	15	459	C	2	3
TB-28	677+53	133.8' RT	EX	743.18	678+15	100.0' RT	D365	742.83	36	69	C	1	3
TB-29	694+90	2.0' LT	D438	778.80	695+00	CL	EX	778.77	15	9	C	2	5
TB-30	708+75	25.8' LT	EX	749.41	709+28	15.0' LT	D920	749.14	15	54	C	1	5
TB-31	718+75	26.7' LT	EX	740.68	718+50	15.0' LT	D911	740.55	15	26	C	1	5
TB-32	728+00	26.9' LT	EX	731.67	727+73	15.0' LT	D875	731.52	15	30	C	1	5
TB-33	736+00	27.0' LT	EX	722.11	735+76	10.0' LT	D856	721.96	21	30	C	1	5
TB-34	39+58	10.0' RT	D845	719.73	40+50	3.3' RT	EX	719.32	24	83	B	2	3
TB-35	744+25	26.9' LT	EX	718.45	745+05	10.5' LT	D825	718.04	21	82	C	1	5
TB-36	817+50	CL			819+15	CL			15	165	C	1	5
TB-37	750+82	21.7' LT	EX	708.72	751+75	10.0' LT	D881	708.62	24	96	B	1	5
TB-38	751+75	10.0' LT	D881	708.62	751+57	30.0' LT	EX	708.52	18	21	B	1	5
TB-39	68+35	39.3' RT	D770	698.16	68+47	7.5' LT	EX	697.95	24	43	B	1	5

R8 R8 R9

MAINTENANCE OF TRAFFIC NOTES

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
BER

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0063 TOTAL P.1587

CUY-90-6.83

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ESTIMATED QUANTITIES

Sheet P.0067	Sheet P.0067A	Sheet P.0067B	Sheet P.0067C	Sheet P.0067D	Sheet P.0068	Sheet P.0069	Sheet P.0070	Sheet P.0071	Sheet P.0072	Sheet P.0073	Sheet P.0074	Sheet P.0075	Sheet P.0076	Sheet P.0077	Sheet P.0078	Sheet P.0079	Sheet P.0080	Sheet P.0081	Sheet P.0082	Sheet P.0083	Sheet P.0083A	ITEM	EXTENSION	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET
15381																						254	01000	15,381	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.5"	
847																						407	10000	847	GAL	TACK COAT	
641																						441	70000	641	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22, PG64-22	P.0061
																					563	611	05901	563	FT	15" CONDUIT, TYPE B, AS PER PLAN	
																					498	611	06101	498	FT	15" CONDUIT, TYPE C, AS PER PLAN	
																					81	611	07401	81	FT	18" CONDUIT, TYPE B, AS PER PLAN	
																					19	611	08901	19	FT	21" CONDUIT, TYPE B, AS PER PLAN	
																					225	611	09101	225	FT	21" CONDUIT, TYPE C, AS PER PLAN	
																					165	611	10401	165	FT	24" CONDUIT, TYPE B, AS PER PLAN	
																					51	611	10601	51	FT	24" CONDUIT, TYPE C, AS PER PLAN	
																					31	611	12101	31	FT	27" CONDUIT, TYPE C, AS PER PLAN	
																					147	611	13601	147	FT	30" CONDUIT, TYPE C, AS PER PLAN	
																					69	611	16601	69	FT	36" CONDUIT, TYPE C, AS PER PLAN	
																					22	611	19601	22	FT	42" CONDUIT, TYPE C, AS PER PLAN	
																					65	611	22601	65	FT	54" CONDUIT, TYPE C, AS PER PLAN	
																					50	611	25401	50	LF	66" CONDUIT, TYPE C, AS PER PLAN	
1332																						611	97010	1,332	FT	SLOTTED DRAIN, TYPE 2, 15"	
																					1	611	98301	1	EACH	CATCH BASIN, NO. 5, AS PER PLAN	
																					1	611	98371	1	EACH	CATCH BASIN, NO. 6, AS PER PLAN	
																					1	611	98841	1	EACH	INLET, NO. 2-A-6, AS PER PLAN	
																					4	611	99575	4	EACH	MANHOLE, NO. 3, AS PER PLAN	
4	2	2	1	2	5				7	4	1		3			8	4	1	2	6		614	12380	52	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
1119	1624	738	1375	1627	1151	429			355	127			1376	409		569	106	88	1213			614	12801	12,306	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	P.0060
250	440	34	294	598	286		356	40	381	408	149	113	1747		12	342	123	188	100	76		614	13310	5,937	EACH	BARRIER REFLECTOR, TYPE 1, ONE WAY	
250	440	34	294	598	286		356	40	381	408	149	113	1747		12	342	123	188	100	76		614	13350	5,937	EACH	OBJECT MARKER, ONE WAY	
						6289	6337			2474				4183			1528					614	18030	20,811	FT	MAINTAINING TRAFFIC, MISC.: TROUGH	P.0063
4.6	11.01		15.70	6.81	14.52	1.92		0.82	1.93				19.1			4.94						614	20056	81.35	MILE	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	
		1.3										26.97							26.97			614	20110	55.24	MILE	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT	
6.91	8.96		14.72	21.37	7.77	3.08		0.91	9.31	1.26	1.37	0.69	27.93	1.4	0.16	10.6	1.88	1.68	0.48			614	22056	120.48	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT	
		0.08										24.08							24.08			614	22110	48.24	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT	
10843	13903		16321	18491	10238	8579		100	5410	2535	843		10702	8189		7039	2480	1768	530			614	23110	117,971	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	
		9888										20147							20147			614	23210	50,182	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 6", 642 PAINT	
359	8226		5968	4652	6676	8717		835	3872	2925	1264		7248	3738	760	4338	1802					614	24102	61,380	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	
												16317							16317			614	24202	32,634	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 642 PAINT	
					212																	614	25000	212	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I	
20060					2073	2374								3860								615	20000	28,367	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	
		715.5										311.4										617	11100	1,027	TON	COMPACTED AGGREGATE	
		2257										983										617	20000	3,240	SY	SHOULDER PREPARATION	
			12995	571									31090									622	41011	44,656	FT	PORTABLE BARRIER, 50", AS PER PLAN	P.0057
					1				2				1			1	1	1				622	41060	7	EACH	DUAL PORTABLE BARRIER TRANSISTION/TERMINATION	P.0064
12379	22766	1700	1681	28537	13945			755	16722	7126	7467	5635	22345		605	12249	5134	8185	5000	3820		622	41100	176,051	FT	PORTABLE BARRIER, UNANCHORED	
	50			200	185			1226	2332	385			2805			4853	1040	1235				622	41111	14,311	FT	PORTABLE BARRIER, ANCHORED, AS PER PLAN	P.0057

R1 R2 R3 R4 R5 R6 R7 R8 R9

MAINTENANCE OF TRAFFIC SUB-SUMMARY

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
BER

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0066 TOTAL P.1587

CUY-90-6.69

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 4/24/2025 TIME: 2:28:40 PM USER: jsima
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MAINTENANCE OF TRAFFIC ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	611 15" CONDUIT, TYPE B, AS PER PLAN	611 15" CONDUIT, TYPE C, AS PER PLAN	611 18" CONDUIT, TYPE B, AS PER PLAN	611 21" CONDUIT, TYPE B, AS PER PLAN	611 21" CONDUIT, TYPE C, AS PER PLAN	611 24" CONDUIT, TYPE B, AS PER PLAN	611 24" CONDUIT, TYPE C, AS PER PLAN	611 27" CONDUIT, TYPE C, AS PER PLAN	611 30" CONDUIT, TYPE C, AS PER PLAN	611 36" CONDUIT, TYPE C, AS PER PLAN	611 42" CONDUIT, TYPE C, AS PER PLAN	611 54" CONDUIT, TYPE C, AS PER PLAN	611 66" CONDUIT, TYPE C, AS PER PLAN	611 CATCH BASIN, NO. 5, AS PER PLAN(2)	611 CATCH BASIN, NO. 6, AS PER PLAN	611 INLET, NO. 2-A-6, AS PER PLAN	611 MANHOLE, NO. 3, AS PER PLAN(3)
						FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	LF	EACH	EACH	EACH	EACH
		IR 90	332+70.00	333+00.00	CL	30																
		IR 90	530+50.00	530+69.00	LT				19													1
		IR 90	530+69.00	530+50.00	RT							19										
		IR 90	536+00.00	537+48.00	RT									147								1
		IR 90	536+00.00	536+65.00	RT	65																
		IR 90	542+01.00	54225+00.00	CL	24																
		IR 90	542+75.00	542+75.00	LT/RT			10													1	
		IR 90	542+89.00	542+89.00	RT					10												
		IR 90	545+10.00	545+35.00	RT											22						
		IR 90	547+24.00	547+65.00	RT	41													1			
		IR 90	554+00.00	553+75.00	RT					25												
		IR 90	554+00.00	553+75.00	RT			25														
		IR 90	574+00.00	574+25.00	RT			25														
		IR 90	574+25.00	573+94.00	RT							32										
		IR 90	583+24.00	583+08.00	LT						16											
		IR 90	583+17.00	582+86.00	LT								31									
		IR 90	584+54.00	583+00.00	LT													50				
		IR 90	585+00.00		LT																	1
		IR 90	601+00.00	600+90.00	LT	10																
		IR 90	612+20.00	611+75.00	CL	45																
		IR 90	617+00.00	617+28.00	RT	28																
		IR 90	621+58.00	621+56.00	RT						10											
		IR 90	629+50.00	629+50.00	RT/LT	10																
		IR 90	629+50.00	629+50.00	LT	10																
		IR 90	634+75.00	634+75.00	RT	10																
		IR 90	639+00.00	639+25.00	LT	25														1		
		IR 90	641+81.00	639+25.00	LT	255																
		IR 90	639+27.00	639+27.00	RT	10																
		IR 90	655+00.00	654+95.00	RT/LT					30												
		IR 90	654+95.00	655+00.00	LT					21												
		IR 90	660+50.00	660+50.00	RT					27												
		IR 90	674+50.00	674+82.00	LT		42															
		IR 90	677+53.00	678+15.00	RT										69							
		IR 90	698+75.00	698+75.00	LT		10															
		IR 90	708+75.00	709+28.00	LT		54															
		IR 90	718+75.00	718+90.00	LT		26															
		IR 90	728+00.00	727+73.00	LT		30															
		IR 90	736+00.00	735+76.00	LT					30												
		IR 90	744+25.00	745+05.00	LT					82												
		IR 90	751+12.00	751+75.00	LT												65					
		IR 90	751+27.00		LT																	1
		IR 90	754+25.00	754+68.00	LT		56															
		IR 90	755+25.00	756+63.00	LT		55															
		IR 90	756+25.00	756+74.00	LT		60															
		IR 90	817+50.00	819+15.00	CL		165															
		IR 90	750+82	751+75	LT						96											
		IR 90	751+75	751+57	LT			21														
		RAMP W13	68+35	68+47	RT						43											
TOTALS CARRIED TO GENERAL SUMMARY						563	498	81	19	225	165	51	31	147	69	22	65	50	1	1	1	4

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
BER

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0083A TOTAL P.1587

CUY-90-6.69

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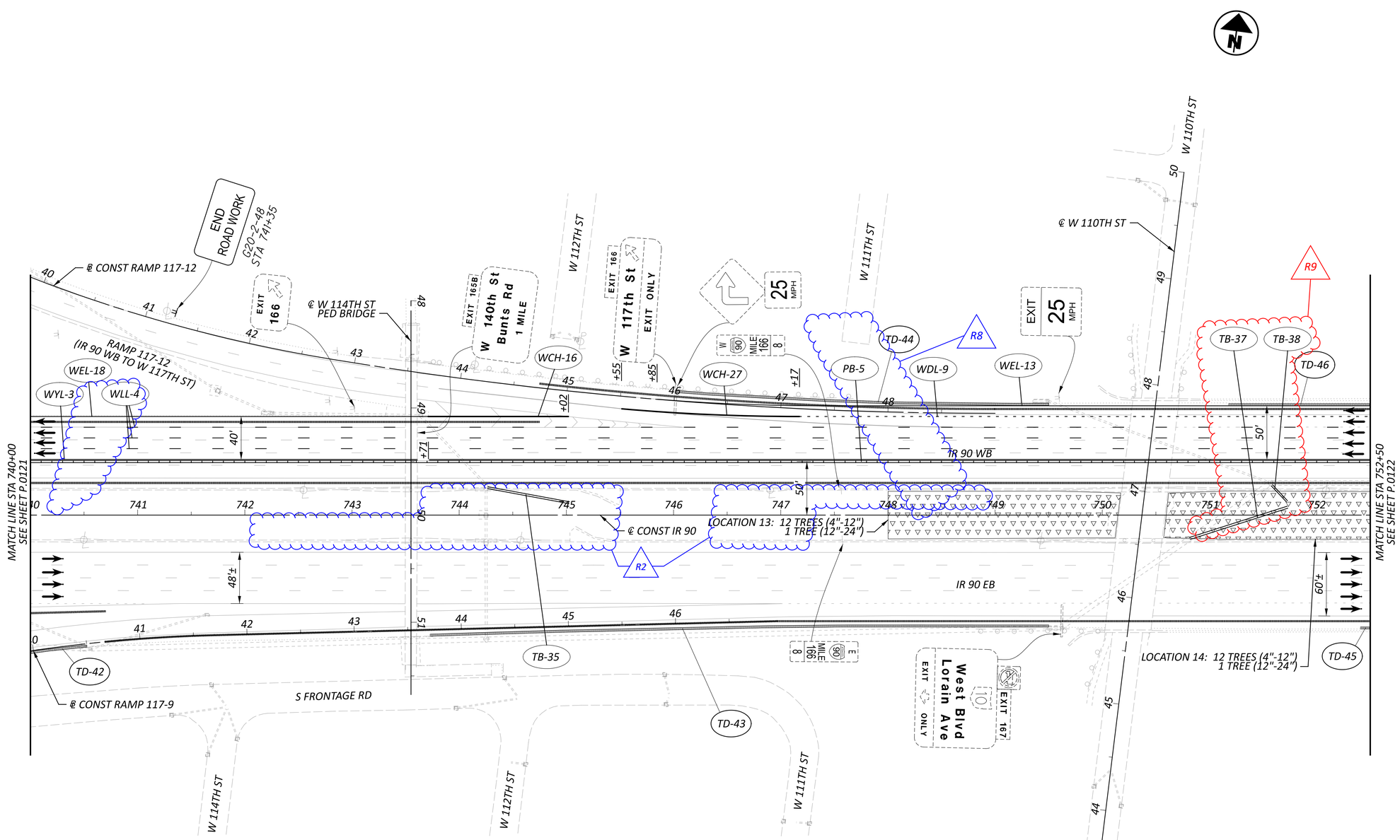

TD-42 — TROUGH, WIDTH - 18.0", DEPTH - 2.0", LENGTH 118'
BEGIN STA 739+36
END STA 740+53

TD-43 — TROUGH, WIDTH - 24.0", DEPTH - 2.0", LENGTH 577'
BEGIN STA 743+73
END STA 749+50

TD-44 — TROUGH, WIDTH - 24.0", DEPTH - 2.0", LENGTH 347'
BEGIN STA 746+03
END STA 749+50

TD-45 — TROUGH, WIDTH - 36.0", DEPTH - 2.0", LENGTH 159'
BEGIN STA 752+41
END STA 754+00

TD-46 — TROUGH, WIDTH - 24.0", DEPTH - 2.0", LENGTH 1037'
BEGIN STA 751+18
END STA 761+55

TREES REMOVED BY OTHERS, STUMPS REMAIN

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.0103.
2. ALL STATIONING TAKEN FROM CL IR 90, UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET 0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 1A, 1B
STA 740+00 TO STA 752+50

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: CSC

REVIEWER: VDK 08/09/23

PROJECT ID: 76779

SHEET: P.0121A TOTAL: P.1587

CUY-90-6.69

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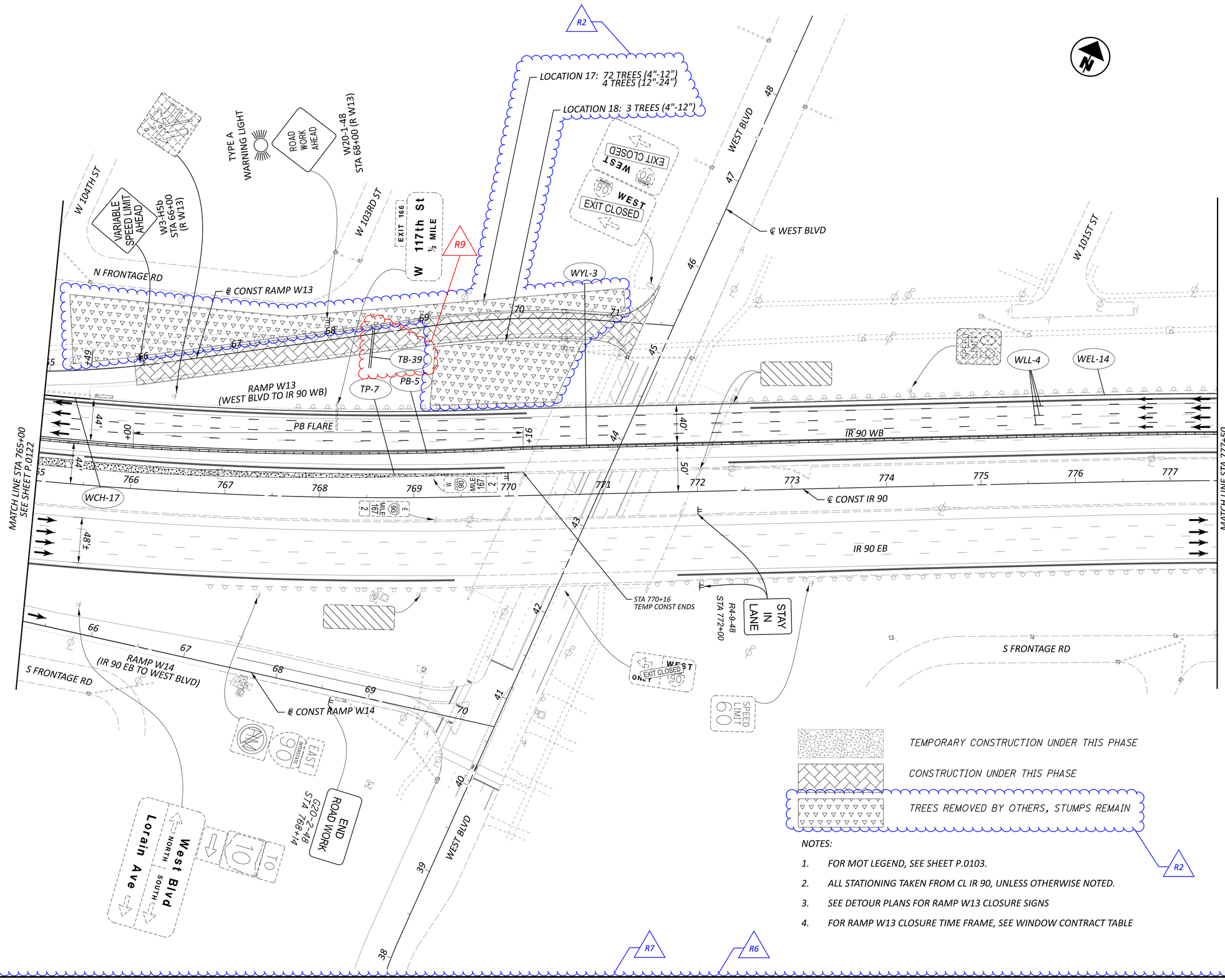

TEMPORARY CONSTRUCTION UNDER THIS PHASE

CONSTRUCTION UNDER THIS PHASE

TREES REMOVED BY OTHERS, STUMPS REMAIN

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.0103.
2. ALL STATIONING TAKEN FROM CL IR 90, UNLESS OTHERWISE NOTED.
3. SEE DETOUR PLANS FOR RAMP W13 CLOSURE SIGNS
4. FOR RAMP W13 CLOSURE TIME FRAME, SEE WINDOW CONTRACT TABLE

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 1A, 1B
STA 765+00 TO STA 777+50

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
CSC

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0123 TOTAL P.1587

CUY-90-6.69

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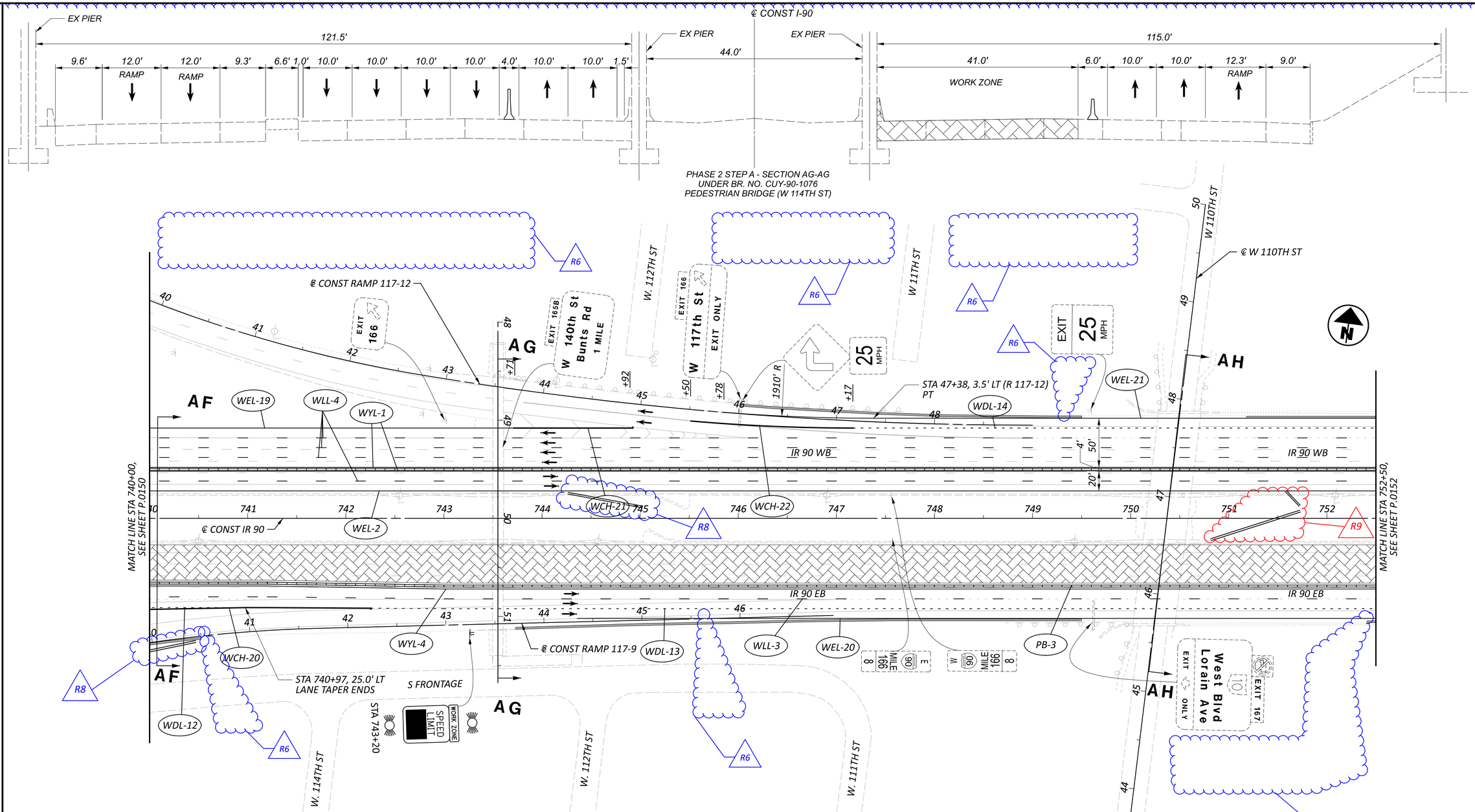

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.0103.
2. ALL STATIONING TAKEN FROM CL IR 90, UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 2A, 2B
STA 740+00 TO STA 752+50

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
RDC 04/14/23

PROJECT ID
76779

SHEET P.0151 TOTAL P.1587

CUY-90-6.69

MODEL: S1P2A - Plan 21 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/24/2025 TIME: 10:16:27 AM USER: sott
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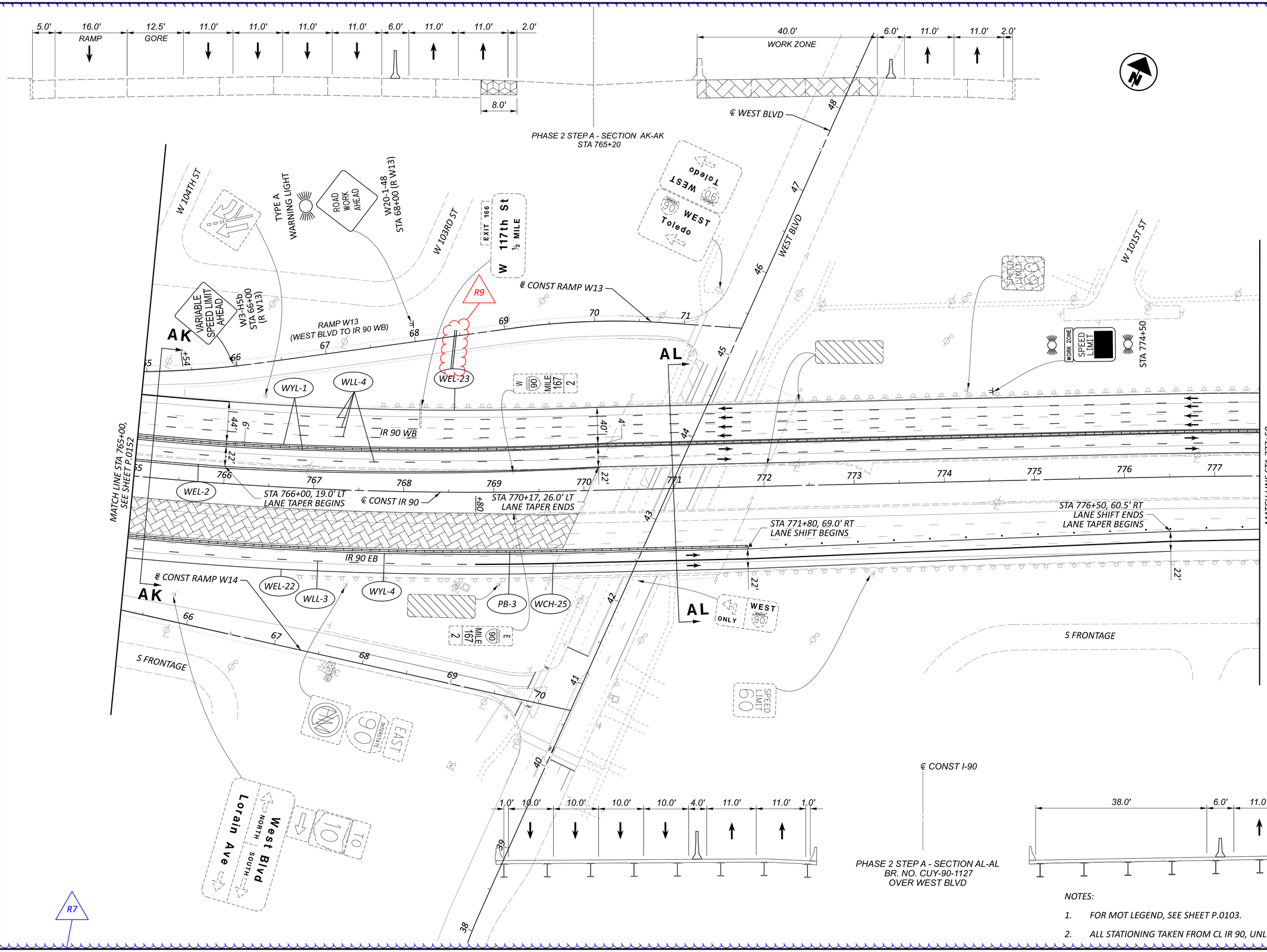

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.0103.
2. ALL STATIONING TAKEN FROM CL IR 90, UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET 0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 2A, 2B
STA 765+00 TO STA 777+50

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: DMS

REVIEWER: RDC 04/14/23

PROJECT ID: 76779

SHEET P.0153 TOTAL P.1587

CUY-90-6.69

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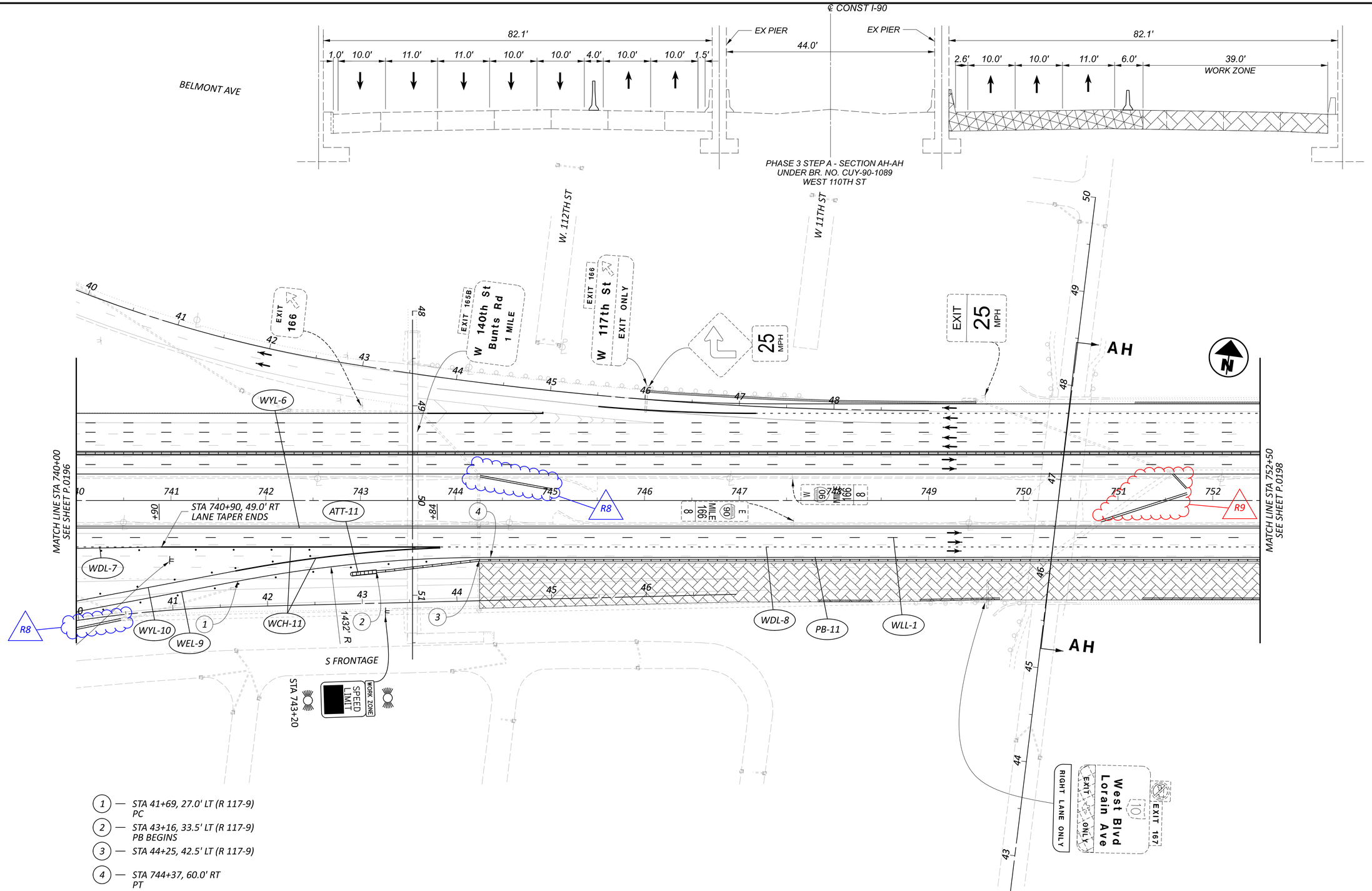

1 — STA 41+69, 27.0' LT (R 117-9)
PC

2 — STA 43+16, 33.5' LT (R 117-9)
PB BEGINS

3 — STA 44+25, 42.5' LT (R 117-9)

4 — STA 744+37, 60.0' RT
PT

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINENANCE OF TRAFFIC PHASE 3A
STA 740+00 TO STA 752+50

DESIGN AGENCY

DESIGNER
DMS

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0197 TOTAL P.1587

CUY-90-6.69

MODEL: SIP3A - Plan 2[Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/24/2025 TIME: 10:16:51 AM USER: sott
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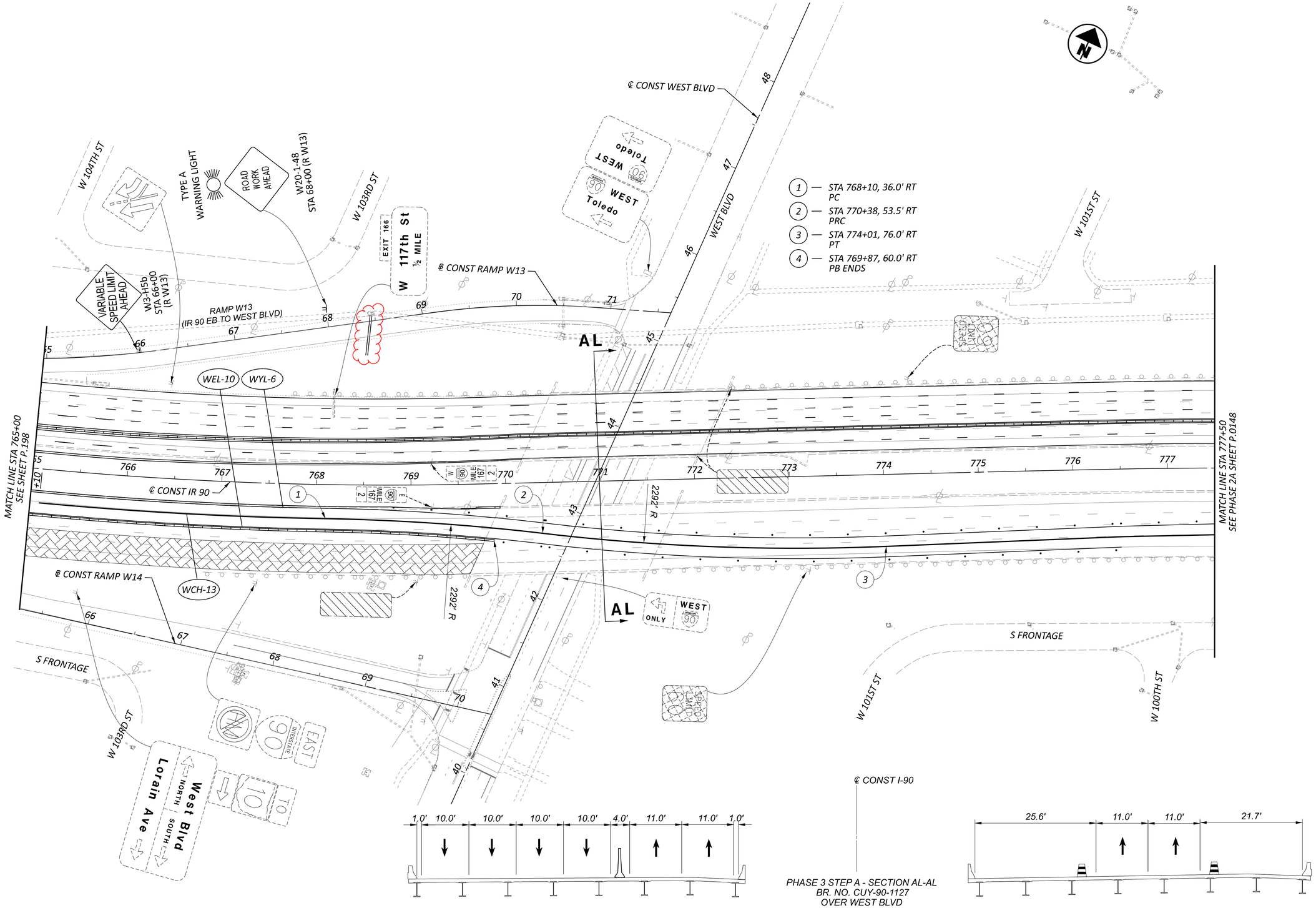

℄ CONST I-90

PHASE 3 STEP A - SECTION AL-AL
BR. NO. CUY-90-1127
OVER WEST BLVD

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 3A, 3B
STA 765+00 TO STA 777+50

DESIGN AGENCY

DESIGNER: DMS
REVIEWER: VDK 08/09/23
PROJECT ID: 76779
SHEET: P.0199 TOTAL: P.1587

CUY-90-6.69

MODEL: SIP3A - Plan 23 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/24/2025 TIME: 8:40:43 AM USER: sott
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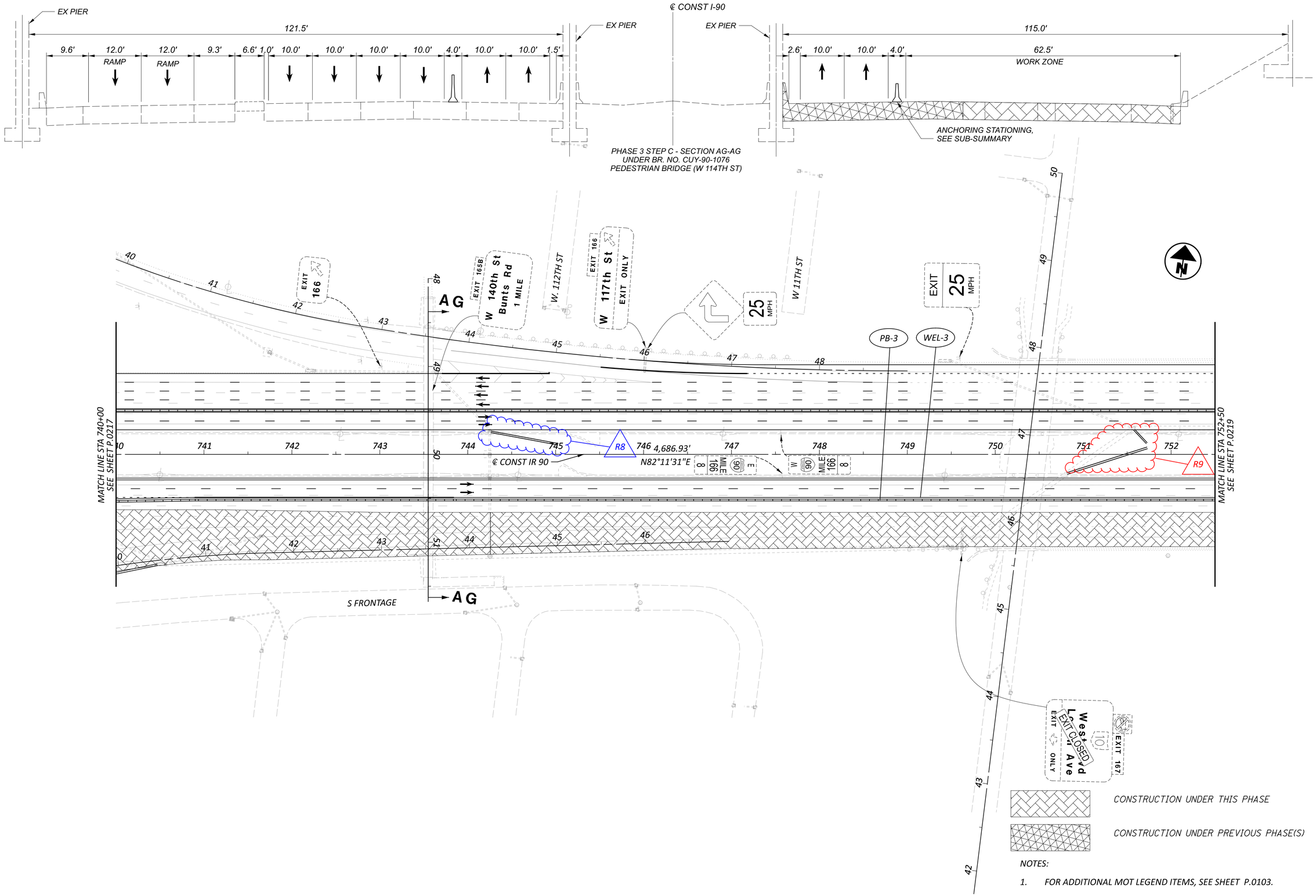

NOTES:

1. FOR ADDITIONAL MOT LEGEND ITEMS, SEE SHEET P.0103.
2. ALL STATIONING TAKEN FROM CL IR 90, UNLESS OTHERWISE NOTED.

MAINTENANCE OF TRAFFIC PHASE 3C
STA 740+00 TO STA 752+50

DESIGN AGENCY: STRUCTUREPOINT INC.

DESIGNER: BER

REVIEWER: VDK 08/09/23

PROJECT ID: 76779

SHEET: P.0218 TOTAL: P.1587

CUY-90-6.69

MODEL: MOT Plan Sheets - Plan 2[Sheet] PAPERSIZE: 34x22 (in) DATE: 4/24/2025 TIME: 10:17:16 AM USER: sot
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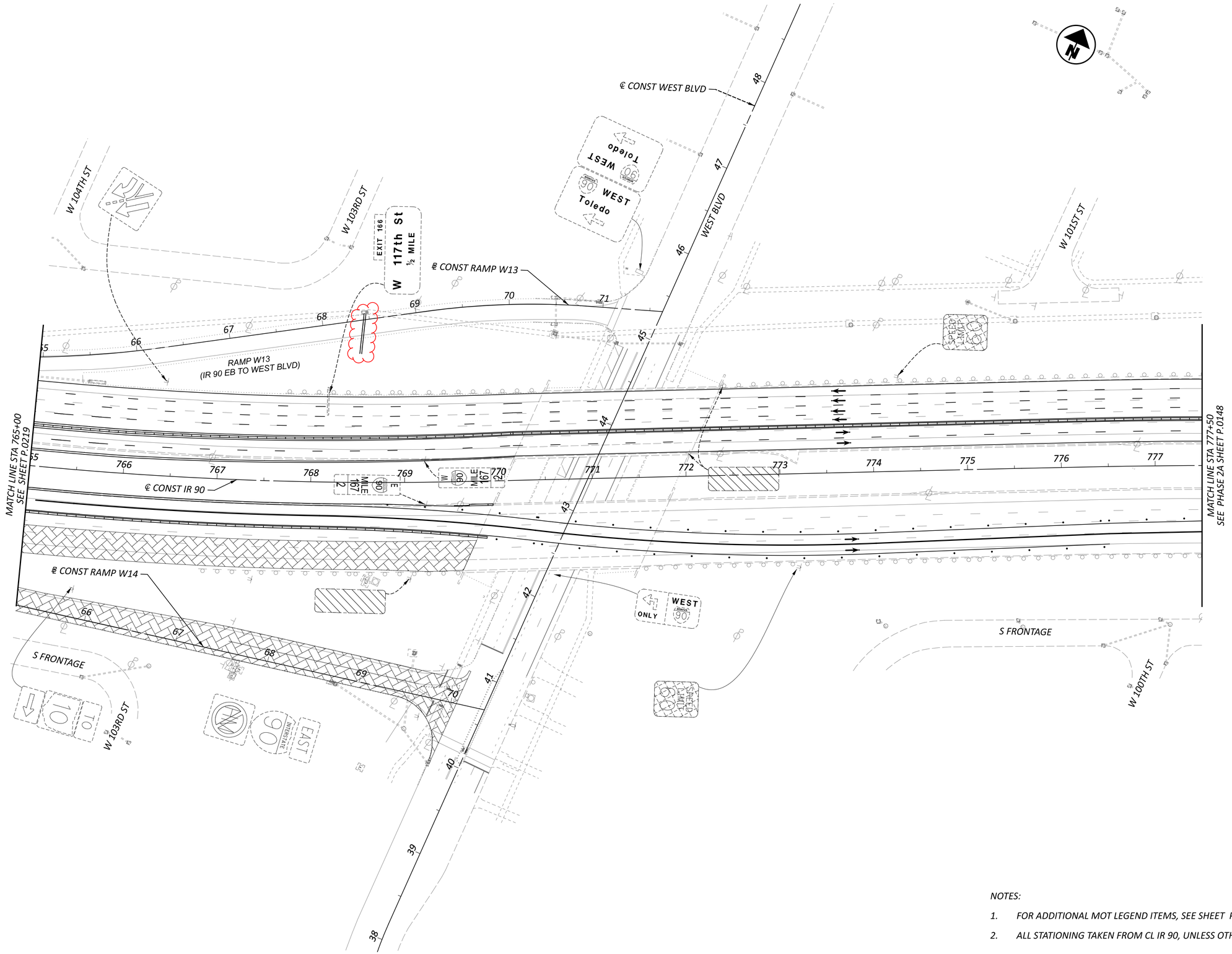
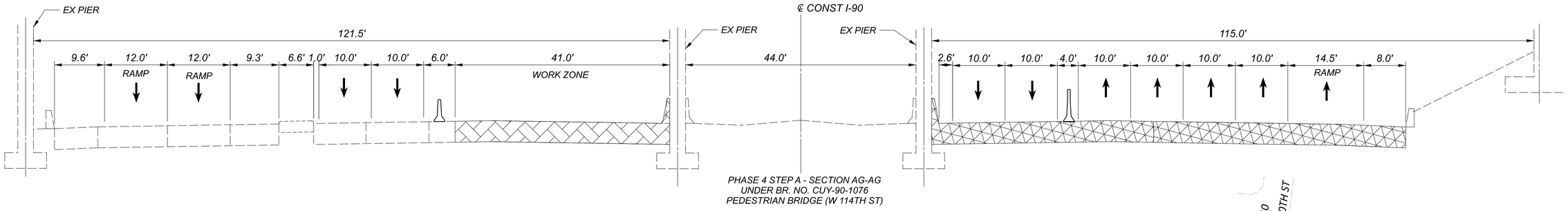
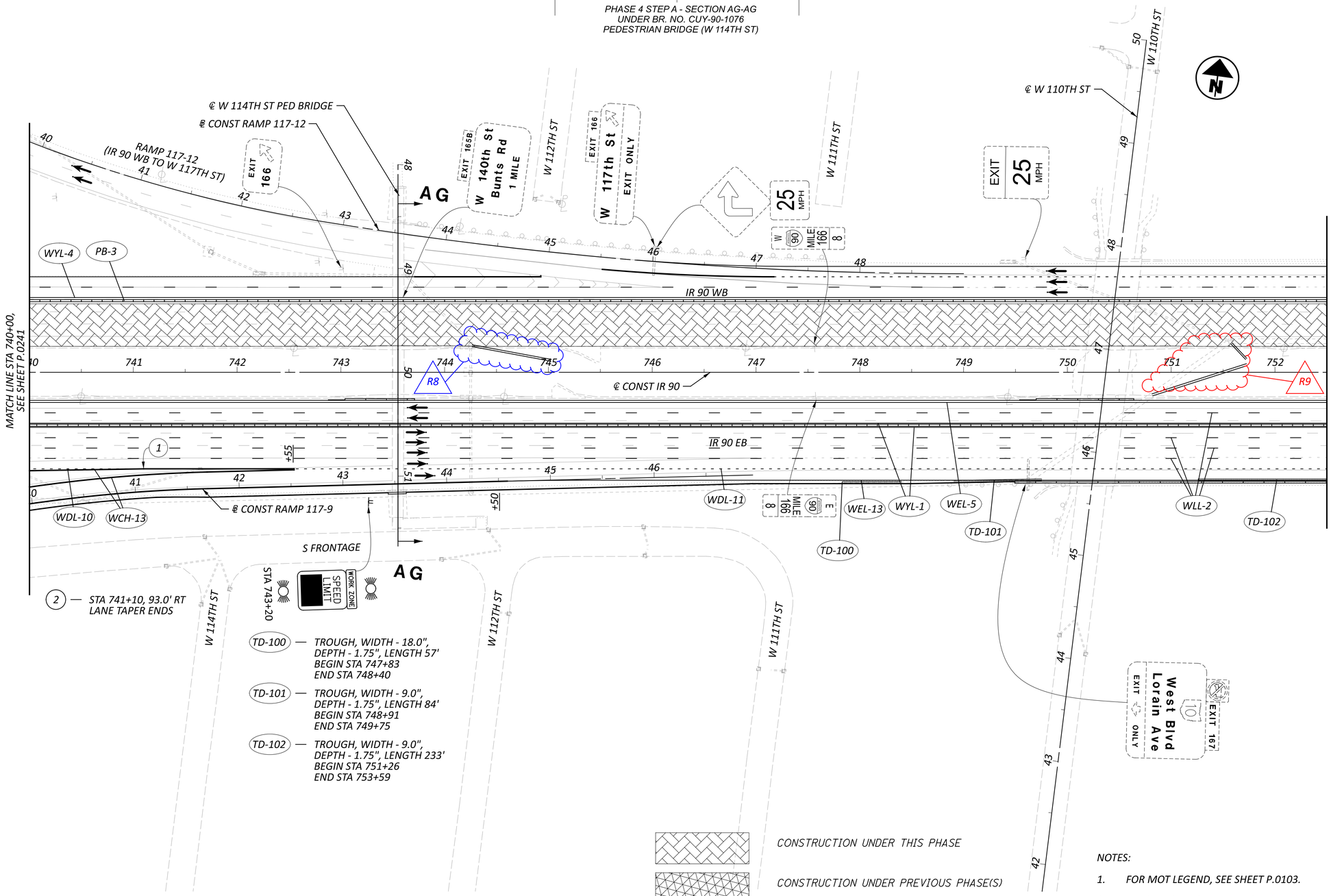

℄ CONST WEST BLVD
WEST BLVD
W 104TH ST
W 103RD ST
W 101ST ST
W 100TH ST
EXIT 166
W 117th St
½ MILE
℄ CONST RAMP W13
RAMP W13
(IR 90 EB TO WEST BLVD)
℄ CONST IR 90
℄ CONST RAMP W14
MATCH LINE STA 765+00
SEE SHEET P.0219
MATCH LINE STA 777+50
SEE PHASE 2A SHEET P.0148
S FRONTAGE
WEST
Toledo
ONLY
EAST
INTERSTATE
90
10
To
SPEED LIMIT
65
65
65



PHASE 4 STEP A - SECTION AG-AG
UNDER BR. NO. CUY-90-1076
PEDESTRIAN BRIDGE (W 114TH ST)

HORIZONTAL SCALE IN FEET
0 25 50 100



(2) — STA 741+10, 93.0' RT
LANE TAPER ENDS

(TD-100) — TROUGH, WIDTH - 18.0",
DEPTH - 1.75", LENGTH 57'
BEGIN STA 747+83
END STA 748+40

(TD-101) — TROUGH, WIDTH - 9.0",
DEPTH - 1.75", LENGTH 84'
BEGIN STA 748+91
END STA 749+75

(TD-102) — TROUGH, WIDTH - 9.0",
DEPTH - 1.75", LENGTH 233'
BEGIN STA 751+26
END STA 753+59

CONSTRUCTION UNDER THIS PHASE

CONSTRUCTION UNDER PREVIOUS PHASE(S)

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.0103.
2. ALL STATIONING TAKEN FROM CL IR 90, UNLESS OTHERWISE NOTED.

MAINTENANCE OF TRAFFIC PHASE 4A, 4B
STA 740+00 TO STA 752+50

DESIGN AGENCY
MPRELAN STRUCTUREPOINT INC.

DESIGNER
CSC

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0242 TOTAL P.1587

CUY-90-6.69

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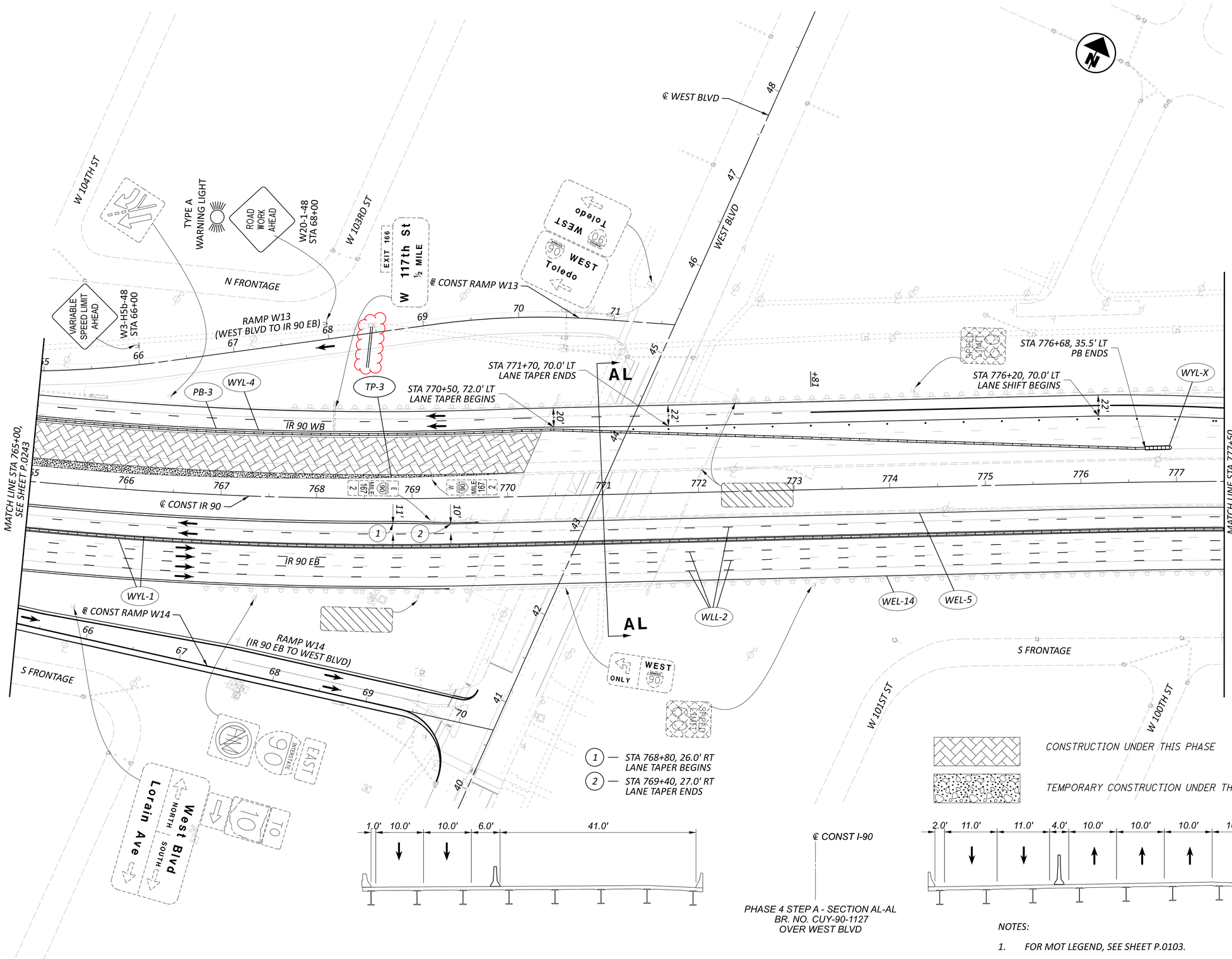


1 — STA 768+80, 26.0' RT LANE TAPER BEGINS

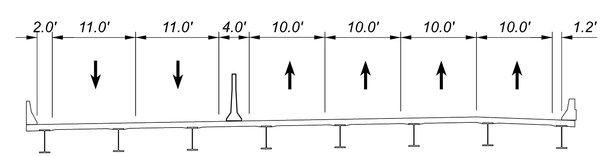
2 — STA 769+40, 27.0' RT LANE TAPER ENDS

CONSTRUCTION UNDER THIS PHASE

TEMPORARY CONSTRUCTION UNDER THIS PHASE

℄ CONST I-90

PHASE 4 STEP A - SECTION AL-AL
BR. NO. CUY-90-1127
OVER WEST BLVD



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.0103.
2. ALL STATIONING TAKEN FROM CL IR 90, UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET 0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 4A, 4B
STA 765+00 TO STA 777+50

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: CSC

REVIEWER: VDK 08/09/23

PROJECT ID: 76779

SHEET P.0244 TOTAL P.1587

CUY-90-6.69

MODEL: S1P4 - Plan 23 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/24/2025 TIME: 3:46:02 PM USER: jsima
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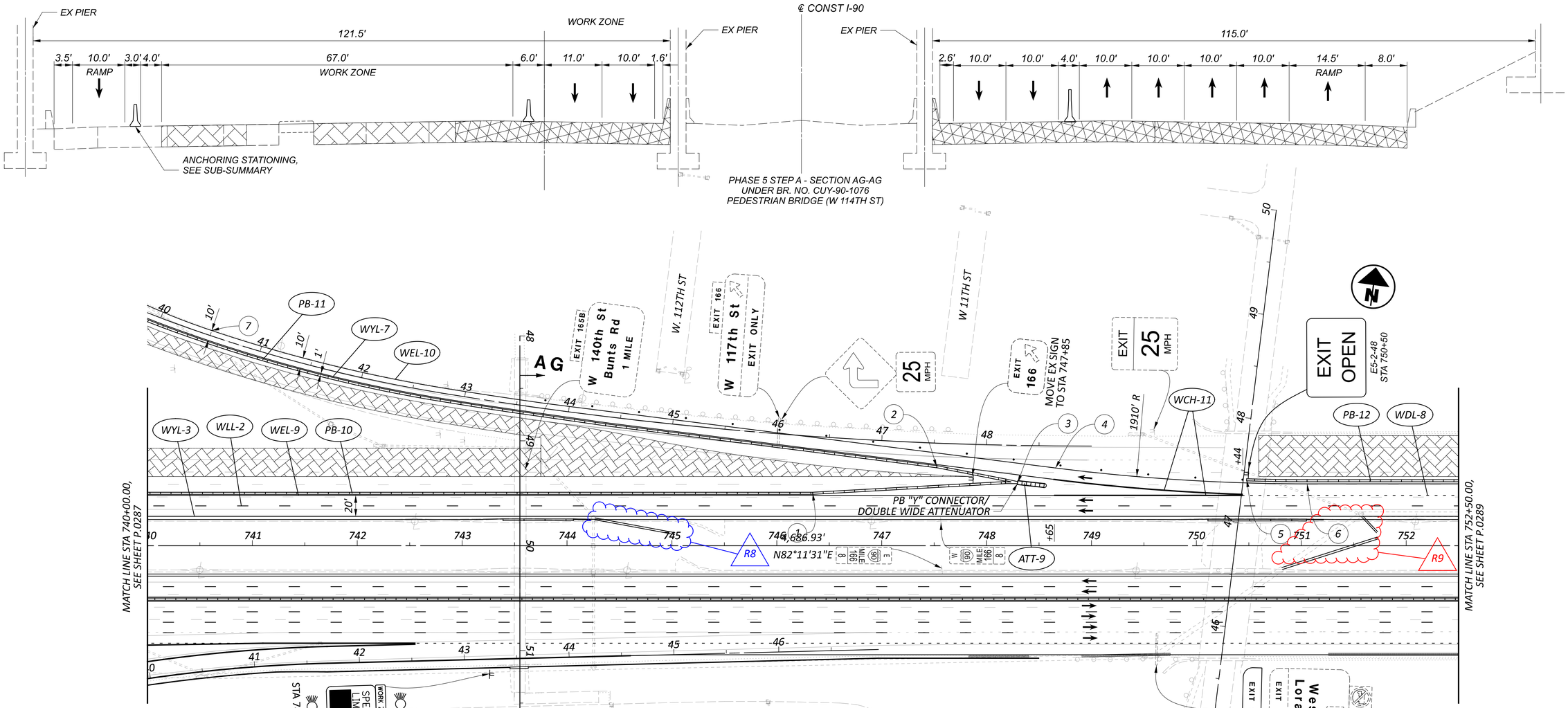

1 — STA 746+34, 50.0' LT

2 — STA 747+53, 75.5' LT

3 — STA 748+30, 60.0' LT
PB ENDS

4 — STA 748+66, 74.0' LT
PC

5 — STA 750+48, 63.0' LT
PB BEGINS

6 — STA 751+06, 59.0' LT
PT

7 — STA 40+50, 5.0' LT (R 117-12)
LANE TAPER/SHIFT ENDS

CONSTRUCTION UNDER THIS PHASE

CONSTRUCTION UNDER PREVIOUS PHASE(S)

NOTES:

1. FOR ADDITIONAL MOT LEGEND ITEMS, SEE SHEET P.0103.
2. ALL STATIONING TAKEN FROM CL IR 90, UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 5A
STA 740+00 TO STA 752+50

DESIGN AGENCY

DESIGNER
DMS

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0288 TOTAL P.1587

CUY-90-6.69

MODEL: MOT Plan Sheets - Plan 2(LSheet) PAPERSIZE: 34x22 (in.) DATE: 4/24/2025 TIME: 10:18:00 AM USER: sott
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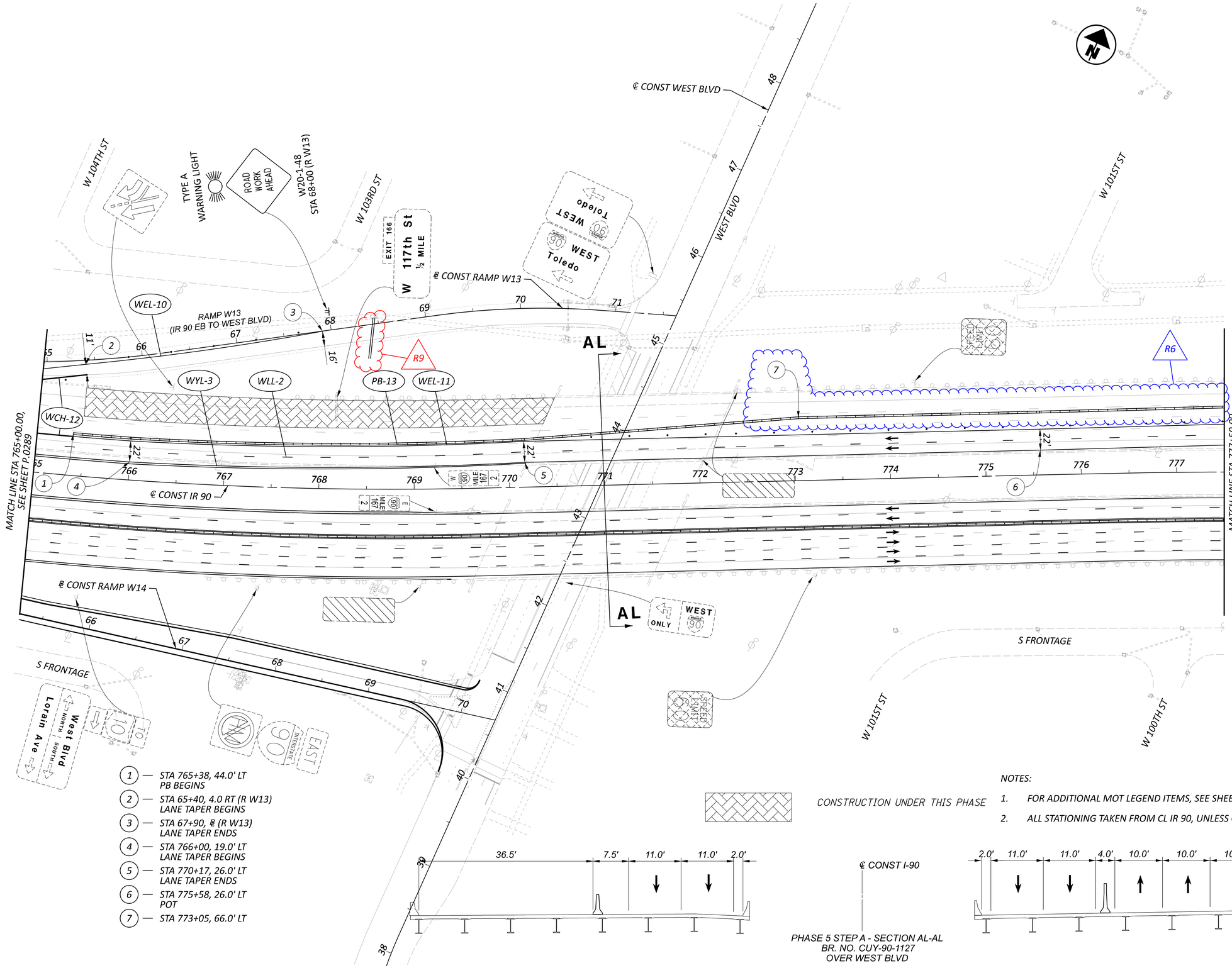

1 — STA 765+38, 44.0' LT
PB BEGINS

2 — STA 65+40, 4.0 RT (R W13)
LANE TAPER BEGINS

3 — STA 67+90, ℄ (R W13)
LANE TAPER ENDS

4 — STA 766+00, 19.0' LT
LANE TAPER BEGINS

5 — STA 770+17, 26.0' LT
LANE TAPER ENDS

6 — STA 775+58, 26.0' LT
POT

7 — STA 773+05, 66.0' LT

CONSTRUCTION UNDER THIS PHASE

NOTES:

1. FOR ADDITIONAL MOT LEGEND ITEMS, SEE SHEET P.0103.
2. ALL STATIONING TAKEN FROM CL IR 90, UNLESS OTHERWISE NOTED.

PHASE 5 STEP A - SECTION AL-AL
BR. NO. CUY-90-1127
OVER WEST BLVD

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 5A
STA 765+00 TO STA 777+50

DESIGN AGENCY

DESIGNER
DMS

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0290 TOTAL P.1587

CUY-90-6.69

MODEL: MOT Plan Sheets - Plan 23 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/24/2025 TIME: 11:59:46 AM USER: sot
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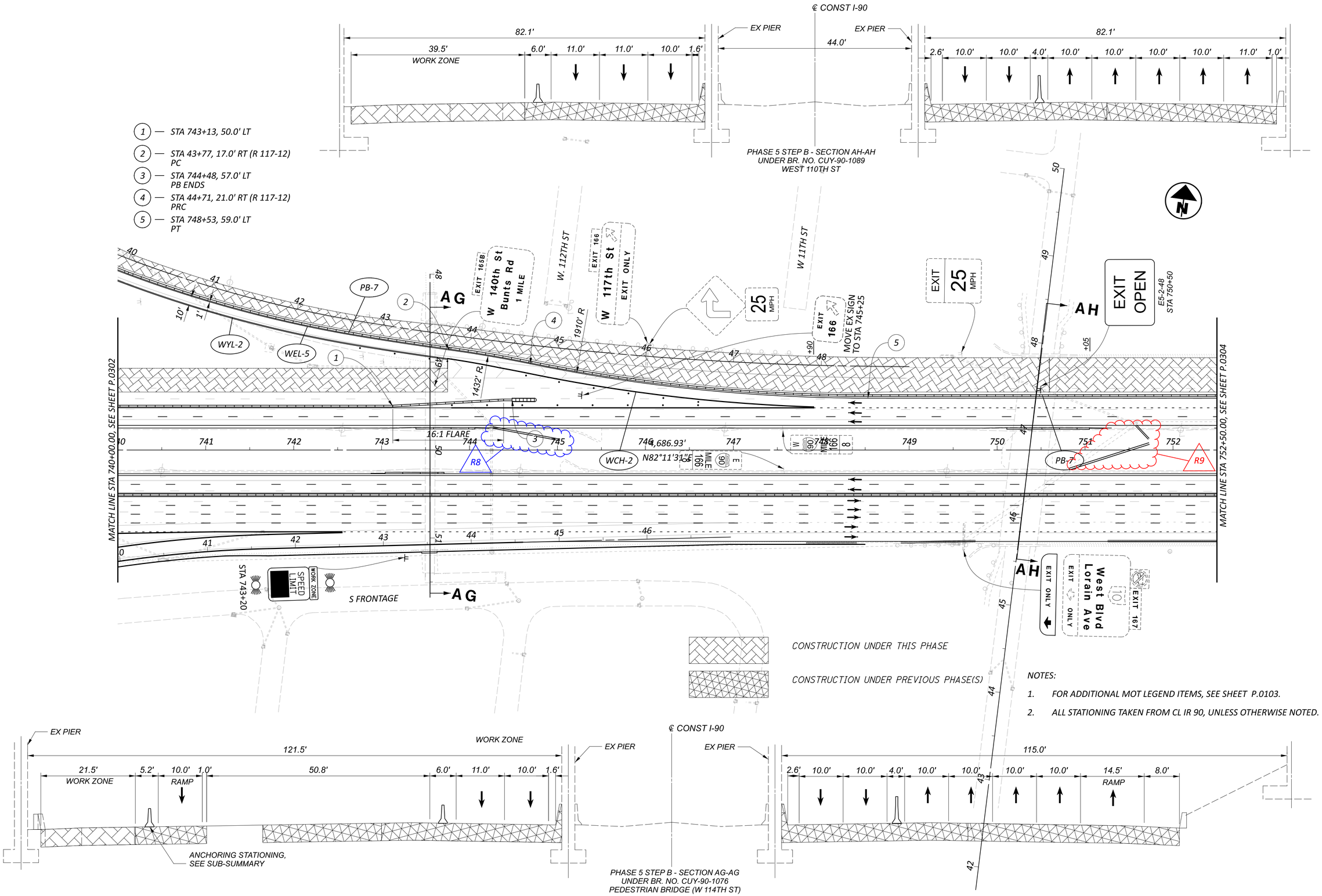

NOTES:

1. FOR ADDITIONAL MOT LEGEND ITEMS, SEE SHEET P.0103.
2. ALL STATIONING TAKEN FROM CL IR 90, UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET 0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 5B
STA 740+00 TO STA 752+50

DESIGN AGENCY

DESIGNER: DMS
REVIEWER: VDK 08/09/23
PROJECT ID: 76779
SHEET: P.0303 TOTAL: P.1587

CUY-90-6.69

MODEL: SIP5B - Plan 2[Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/24/2025 TIME: 10:48:22 AM USER: sot
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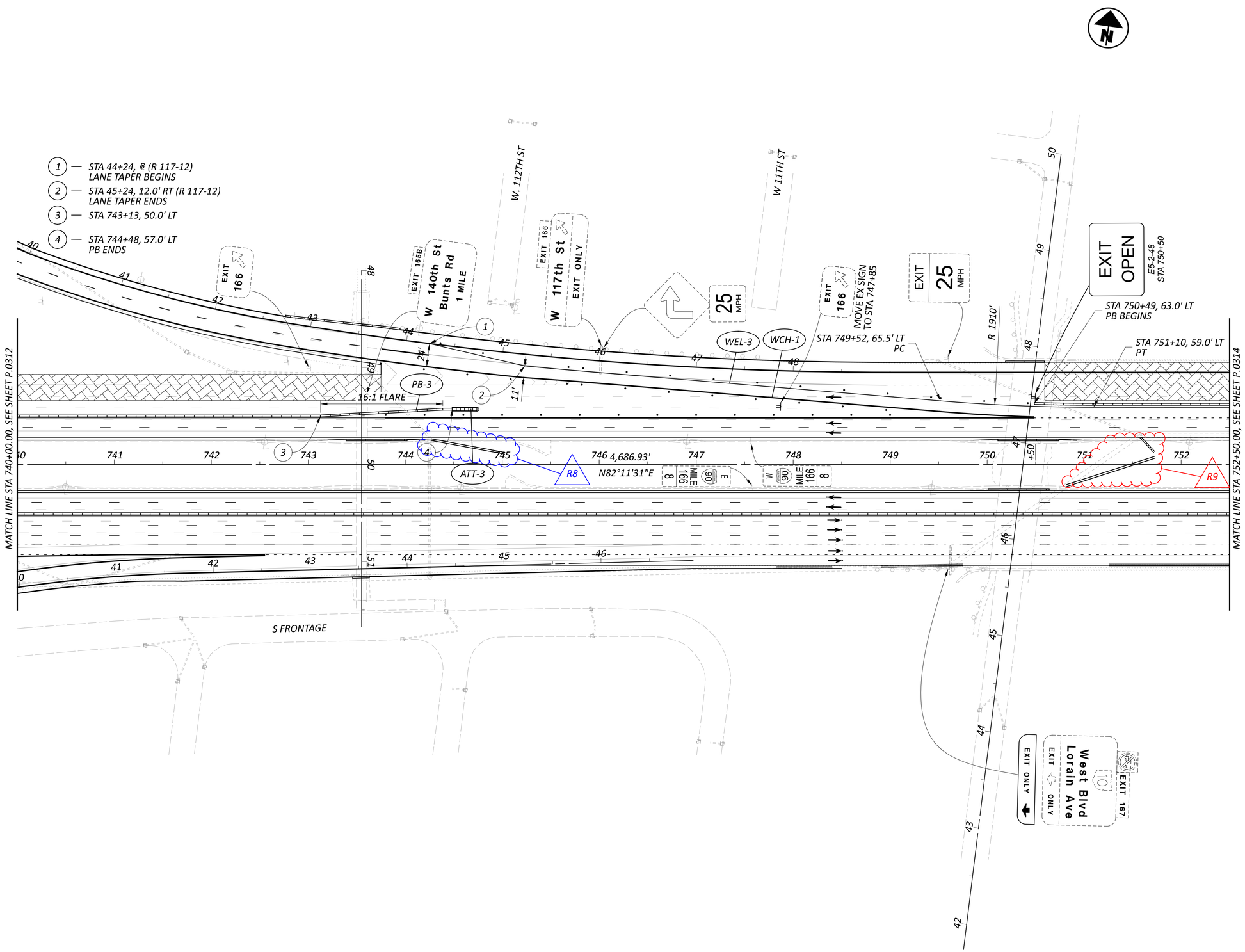


HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 5C
STA 740+00 TO STA 752+00

DESIGN AGENCY

DESIGNER
DMS

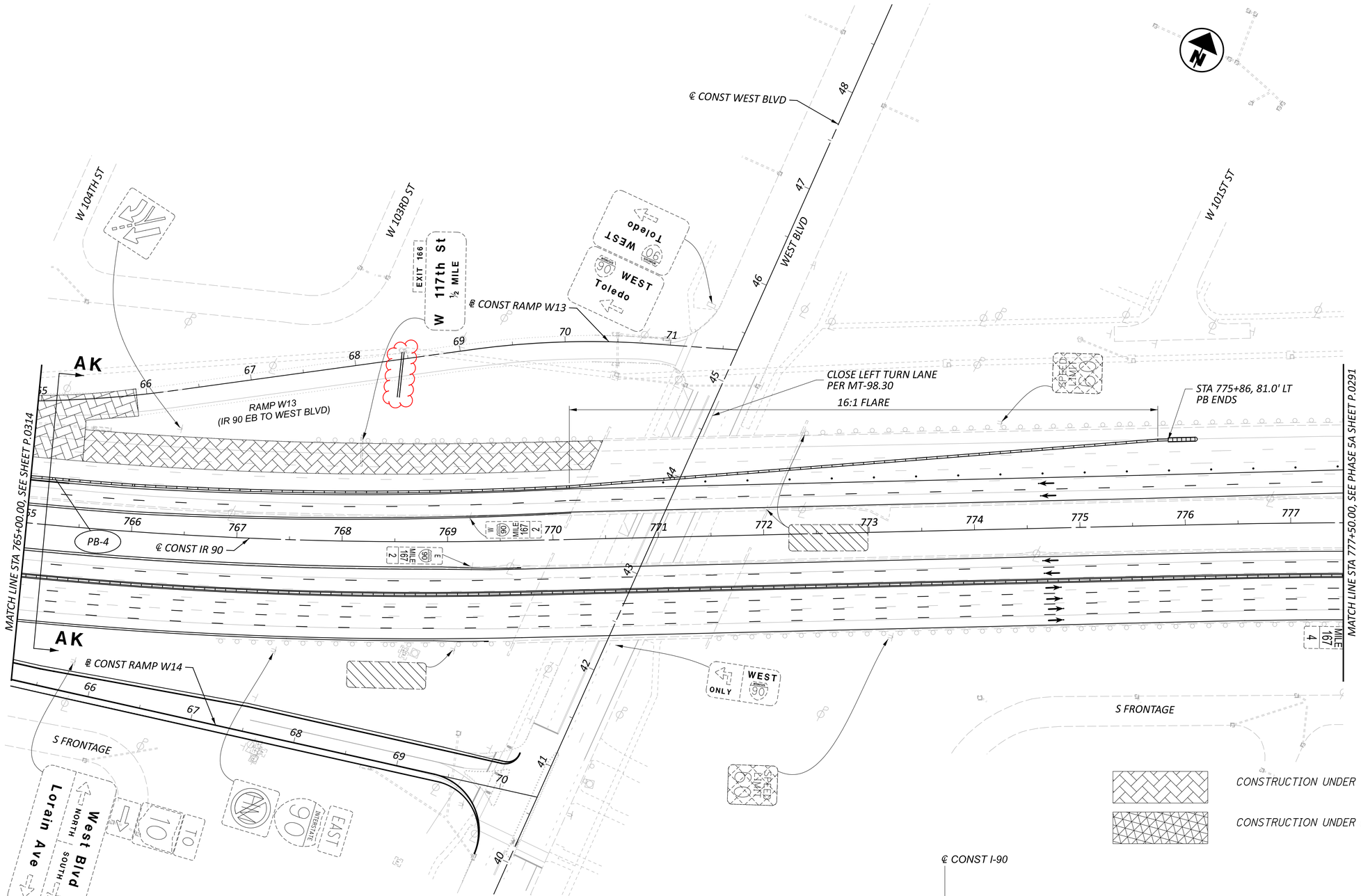
REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0313 TOTAL P.1587

CUY-90-6.69

MODEL: SIPSC - Plan 21[Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/24/2025 TIME: 10:18:42 AM USER: sott
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\20200062\76779\400-Engineering\MOT\Sheets\76779_MP153.dgn



PHASE 5 PHASE C - SECTION AK-AK
STA 765+20

NOTES:

1. FOR ADDITIONAL MOT LEGEND ITEMS, SEE SHEET P.0103.
2. ALL STATIONING TAKEN FROM CL IR 90, UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 5C
STA 765+00 TO STA 777+50

DESIGN AGENCY

DESIGNER: DMS
REVIEWER: VDK 08/09/23
PROJECT ID: 76779
SHEET: P.0315 TOTAL: P.1587

CUY-90-6.69

MODEL: SIP5C - Plan 23 (Sheet) PAPERSIZE: 34x22 (in.) DATE: 4/24/2025 TIME: 12:00:14 PM USER: sot
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\20200062\76779\400-Engineering\MOT\Sheets\76779_MP153.dgn

OFFICE CALCS	SHEET NUM. 45	46	48	51	332	337	338	340	341	346	PART. 01/IMS/04	02/IMS/13	03/IMS/13	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
																		ROADWAY	
	LS										LS			201	11000	LS		CLEARING AND GRUBBING	
					420,404						420,404			202	23001	420,404	SY	PAVEMENT REMOVED, AS PER PLAN	P.0046
							6,343				6,343			202	30000	6,343	SF	WALK REMOVED	
					37,701						37,701			202	30700	37,701	FT	CONCRETE BARRIER REMOVED	
					2,234						2,234			202	30800	2,234	SY	TRAFFIC ISLAND REMOVED	
					54,446						54,446			202	32000	54,446	FT	CURB REMOVED	
					204						204			202	32800	204	SY	CONCRETE SLOPE PROTECTION REMOVED	
				238						8,260	8,498			202	35100	8,498	FT	PIPE REMOVED, 24" DIAMETER AND UNDER	
										9,500	9,500			202	35200	9,500	FT	PIPE REMOVED, OVER 24" DIAMETER	
					13,026.5						13,026.5			202	38000	13,026.5	FT	GUARDRAIL REMOVED	
					39						39			202	42010	39	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E	
					25						25			202	42040	25	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T	
					34						34			202	47000	34	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	
					2						2			202	47800	2	EACH	IMPACT ATTENUATOR REMOVED	
										37	37			202	58000	37	EACH	MANHOLE REMOVED	
										101	101			202	58100	101	EACH	CATCH BASIN REMOVED	
										150	150			202	58200	150	EACH	INLET REMOVED	
										5,033	5,033			SPECIAL	20270000	5,033	FT	FILL AND PLUG EXISTING CONDUIT, 15"	P.0048
										950	950			SPECIAL	20270000	950	FT	FILL AND PLUG EXISTING CONDUIT, 18"	P.0048
										906	906			SPECIAL	20270000	906	FT	FILL AND PLUG EXISTING CONDUIT, 21"	P.0048
										1,058	1,058			SPECIAL	20270000	1,058	FT	FILL AND PLUG EXISTING CONDUIT, 24"	P.0048
										247	247			SPECIAL	20270000	247	FT	FILL AND PLUG EXISTING CONDUIT, 30"	P.0048
										575	575			SPECIAL	20270000	575	FT	FILL AND PLUG EXISTING CONDUIT, 36"	P.0048
										670	670			SPECIAL	20270000	670	FT	FILL AND PLUG EXISTING CONDUIT, 42"	P.0048
										773	773			SPECIAL	20270000	773	FT	FILL AND PLUG EXISTING CONDUIT, 48"	P.0048
										2,278	2,278			SPECIAL	20270000	2,278	FT	FILL AND PLUG EXISTING CONDUIT, 54"	P.0048
										2,744	2,744			SPECIAL	20270000	2,744	FT	FILL AND PLUG EXISTING CONDUIT, 60"	P.0048
			500							145	645			SPECIAL	20270110	645	FT	PIPE CLEANOUT, 24" AND UNDER	P.0048
			500							190	690			SPECIAL	20270120	690	FT	PIPE CLEANOUT, 27" TO 48"	P.0048
			500								500			SPECIAL	20270130	500	FT	PIPE CLEANOUT OVER 48"	P.0048
								41,942			41,942			202	75000	41,942	FT	FENCE REMOVED	
											LS			202	98000	LS		REMOVAL MISC.:TRAFFIC MONITORING EQUIPMENT	P.1268
									252,249		252,249			203	10001	252,249	CY	EXCAVATION, AS PER PLAN	P.0046
									9,830		9,830			203	20001	9,830	CY	EMBANKMENT, AS PER PLAN	P.0046
		24									24			203	98600	24	EACH	ROADWAY, MISC.:TEST HOLE	P.0046
37,166											37,166			204	13001	37,166	CY	EXCAVATION OF SUBGRADE, AS PER PLAN	P.0046
		71									71			204	45000	71	HOUR	PROOF ROLLING	
5,786											5,786			206	10500	5,786	TON	CEMENT	
221,079											221,079			206	11000	221,079	SY	CURING COAT	
204,209											204,209			206	15010	204,209	SY	CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP	
16,870											16,870			206	15020	16,870	SY	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	
		LS									LS			206	30000	LS		MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS	
						0.25					0.25			209	15051	0.25	MILE	RESHAPING UNDER GUARDRAIL, AS PER PLAN	P.0050
						20,271					20,271			606	15051	20,271	FT	GUARDRAIL, TYPE MGS, AS PER PLAN	P.0046
						125					125			606	15151	125	FT	GUARDRAIL, TYPE MGS HALF POST SPACING, AS PER PLAN	P.0046
						62.5					62.5			606	15251	62.5	FT	GUARDRAIL, TYPE MGS QUARTER POST SPACING, AS PER PLAN	P.0046
						57					57			606	26150	57	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	
						35					35			606	26550	35	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
						43					43			606	35002	43	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
						20					20			606	35102	20	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
								41,913			41,913			607	23000	41,913	FT	FENCE, TYPE CLT	
								41,913			41,913			607	70000	41,913	FT	FENCELINE SEEDING AND MULCHING	

GENERAL SUMMARY

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: BER

REVIEWER: VDK 08/09/23

PROJECT ID: 76779

SHEET: P.0316 TOTAL: P.1587

CUY-90-6.69

MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 4/25/2025 TIME: 9:17:01 AM USER: jsima
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\202000062\76779\400-Engineering\Roadway\Sheets\76779_GG001.dgn

SHEET NUM. 48	66	346	347	PART. 01/IMS/04	02/IMS/13	03/IMS/13	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
											DRAINAGE	
		124,329		124,329			605	11110	124,329	FT	6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
5,000				5,000			605	13300	5,000	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
		102,604		102,604			605	14021	102,604	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN	P.0048
		5,889		5,889			611	00510	5,889	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
10		4		14			611	99710	14	EACH	PRECAST REINFORCED CONCRETE OUTLET	
		68		68			611	04400	68	FT	12" CONDUIT, TYPE B	
		68		68			611	04600	68	FT	12" CONDUIT, TYPE C	
		6,330		6,330			611	05900	6,330	FT	15" CONDUIT, TYPE B	
	563			563			611	05901	563	FT	15" CONDUIT, TYPE B, AS PER PLAN	P.0063
		2,098		2,098			611	06100	2,098	FT	15" CONDUIT, TYPE C	
	498			498			611	06101	498	FT	15" CONDUIT, TYPE C, AS PER PLAN	P.0063
200		73		273			611	06700	273	FT	15" CONDUIT, TYPE F	
		630		630			611	07400	630	FT	18" CONDUIT, TYPE B	
	81			81			611	07401	81	FT	18" CONDUIT, TYPE B, AS PER PLAN	P.0063
		40		40			611	07600	40	FT	18" CONDUIT, TYPE C	
	19			19			611	08901	19	FT	21" CONDUIT, TYPE B, AS PER PLAN	P.0063
	225			225			611	09101	225	FT	21" CONDUIT, TYPE C, AS PER PLAN	P.0063
		758		758			611	10400	758	FT	24" CONDUIT, TYPE B	
	165			165			611	10401	165	FT	24" CONDUIT, TYPE B, AS PER PLAN	P.0063
		1,315		1,315			611	10600	1,315	FT	24" CONDUIT, TYPE C	
	51			51			611	10601	51	FT	24" CONDUIT, TYPE C, AS PER PLAN	P.0063
	31			31			611	12101	31	FT	27" CONDUIT, TYPE C, AS PER PLAN	P.0063
		244		244			611	13600	244	FT	30" CONDUIT, TYPE C	
	147			147			611	13601	147	FT	30" CONDUIT, TYPE C, AS PER PLAN	P.0063
		763		763			611	16600	763	FT	36" CONDUIT, TYPE C	
	69			69			611	16601	69	FT	36" CONDUIT, TYPE C, AS PER PLAN	P.0063
		101		101			611	19400	101	FT	42" CONDUIT, TYPE B	
		493		493			611	19600	493	FT	42" CONDUIT, TYPE C	
	22			22			611	19601	22	FT	42" CONDUIT, TYPE C, AS PER PLAN	P.0063
		2,514		2,514			611	22600	2,514	FT	54" CONDUIT, TYPE C	
	65			65			611	22601	65	FT	54" CONDUIT, TYPE C, AS PER PLAN	P.0063
		466		466			611	23800	466	FT	60" CONDUIT, TYPE B	
	50			50			611	25401	50	LF	66" CONDUIT, TYPE C, AS PER PLAN	P.0063
		441		441			611	96600	441	FT	CONDUIT, BORED OR JACKED, 15", TYPE B	
		141		141			611	96600	141	FT	CONDUIT, BORED OR JACKED, 24", TYPE B	
		58		58			611	96600	58	FT	CONDUIT, BORED OR JACKED, 36", TYPE B	
		170		170			611	96600	170	FT	CONDUIT, BORED OR JACKED, 36", TYPE C	
		155		155			611	96600	155	FT	CONDUIT, BORED OR JACKED, 42", TYPE B	
		310		310			611	96600	310	FT	CONDUIT, BORED OR JACKED, 54", TYPE C	
		33		33			611	16400	33	FT	36" CONDUIT, TYPE B	
		199		199			611	96601	199	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 24" TYPE B	P.0049
		256		256			611	96601	256	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 30" TYPE C	P.0049
		92		92			611	96601	92	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 36" TYPE B	P.0049
		143		143			611	96601	143	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 42" TYPE B	P.0049

GENERAL SUMMARY

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: BER

REVIEWER: VDK 08/09/23

PROJECT ID: 76779

SHEET: P.0318 TOTAL: P.1587

CUY-90-6.69

MODEL: Sheet 3 PAPERSIZE: 34x22 (in.) DATE: 4/24/2025 TIME: 1:49:44 PM USER: sott
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\20200062\76779\400-Engineering\Roadway\Sheets\76779_GG001.dgn

SHEET NUM. 66	346	347	PART. 01/IMS/04	02/IMS/13	03/IMS/13	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
										DRAINAGE CONT.	
	211		211			611	96601	211	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 42" TYPE C	P.0049
	156		156			611	96601	156	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 48" TYPE B	P.0049
	181		181			611	96601	181	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 48" TYPE C	P.0049
	147		147			611	96601	147	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 54" TYPE B	P.0049
	155		155			611	96601	155	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 60" TYPE B	P.0049
	703		703			611	96601	703	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 66" TYPE B	P.0049
	24		24			611	97400	24	FT	CONDUIT, MISC.: 12" CONDUIT, TYPE B, ROCK CUT	P.0049
		36	36			611	97400	36	FT	CONDUIT, MISC.: 12" CONDUIT, TYPE C, ROCK CUT	P.0049
		10,283	10,283			611	97400	10,283	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE B, ROCK CUT	P.0049
		1,532	1,532			611	97400	1,532	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE C, ROCK CUT	P.0049
		85	85			611	97400	85	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE F, ROCK CUT	P.0049
		2,523	2,523			611	97400	2,523	FT	CONDUIT, MISC.: 18" CONDUIT, TYPE B, ROCK CUT	P.0049
		993	993			611	97400	993	FT	CONDUIT, MISC.: 18" CONDUIT, TYPE C, ROCK CUT	P.0049
		1,408	1,408			611	97400	1,408	FT	CONDUIT, MISC.: 24" CONDUIT, TYPE B, ROCK CUT	P.0049
		229	229			611	97400	229	FT	CONDUIT, MISC.: 24" CONDUIT, TYPE C, ROCK CUT	P.0049
		183	183			611	97400	183	FT	CONDUIT, MISC.: 30" CONDUIT, TYPE B, ROCK CUT	P.0049
		1,530	1,530			611	97400	1,530	FT	CONDUIT, MISC.: 30" CONDUIT, TYPE C, ROCK CUT	P.0049
		248	248			611	97400	248	FT	CONDUIT, MISC.: 36" CONDUIT, TYPE B, ROCK CUT	P.0049
		332	332			611	97400	332	FT	CONDUIT, MISC.: 36" CONDUIT, TYPE C, ROCK CUT	P.0049
		263	263			611	97400	263	FT	CONDUIT, MISC.: 42" CONDUIT, TYPE B, ROCK CUT	P.0049
		788	788			611	97400	788	FT	CONDUIT, MISC.: 42" CONDUIT, TYPE C, ROCK CUT	P.0049
		2,413	2,413			611	97400	2,413	FT	CONDUIT, MISC.: 48" CONDUIT, TYPE B, ROCK CUT	P.0049
		380	380			611	97400	380	FT	CONDUIT, MISC.: 54" CONDUIT, TYPE B, ROCK CUT	P.0049
		399	399			611	97400	399	FT	CONDUIT, MISC.: 54" CONDUIT, TYPE C, ROCK CUT	P.0049
		863	863			611	97400	863	FT	CONDUIT, MISC.: 60" CONDUIT, TYPE B, ROCK CUT	P.0049
		209	209			611	97400	209	FT	CONDUIT, MISC.: 60" CONDUIT, TYPE C, ROCK CUT	P.0049
		1,631	1,631			611	97400	1,631	FT	CONDUIT, MISC.: 66" CONDUIT, TYPE B, ROCK CUT	P.0049
		174	174			611	97400	174	FT	CONDUIT, MISC.: 66" CONDUIT, TYPE C, ROCK CUT	P.0049
		41	41			611	98150	41	EACH	CATCH BASIN, NO. 3	
		1	1			611	98151	1	EACH	CATCH BASIN, NO. 3, AS PER PLAN	P.0048
		16	16			611	98180	16	EACH	CATCH BASIN, NO. 3A	
		65	65			611	98300	65	EACH	CATCH BASIN, NO. 5	
		1	1			611	98301	1	EACH	CATCH BASIN, NO. 5, AS PER PLAN	P.0048
1			1			611	98301	1	EACH	CATCH BASIN, NO. 5, AS PER PLAN (2)	P.0063
		7	7			611	98370	7	EACH	CATCH BASIN, NO. 6	
1			1			611	98371	1	EACH	CATCH BASIN, NO. 6, AS PER PLAN	P.0063
		1	1			611	98510	1	EACH	CATCH BASIN, NO. 2-3	
		1	1			611	98690	1	EACH	CATCH BASIN, MISC.: CITY OF CLEVELAND CB-1 CATCH BASIN	P.0048
		1	1			611	98811	1	EACH	INLET, NO. 3C, AS PER PLAN	P.0048A
		6	6			611	98820	6	EACH	INLET, NO. 3D	
		47	47			611	98840	47	EACH	INLET, NO. 2-A-6	
1			1			611	98841	1	EACH	INLET, NO. 2-A-6, AS PER PLAN	P.0063
		35	35			611	98850	35	EACH	INLET, NO. 2-A-8	
		25	25			611	98860	25	EACH	INLET, NO. 2-A-10	
		10	10			611	98870	10	EACH	INLET, NO. 2-A-12	
		8	8			611	98880	8	EACH	INLET, NO. 2-A-14	
		2	2			611	98890	2	EACH	INLET, NO. 2-A-16	
		1	1			611	99000	1	EACH	INLET, NO. 2-A-18	
		17	17			611	99100	17	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1	
		7	7			611	99110	7	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1	
		92	92			611	99574	92	EACH	MANHOLE, NO. 3	
		21	21			611	99575	21	EACH	MANHOLE, NO. 3, AS PER PLAN	P.0048A
		1	1			611	99575	1	EACH	MANHOLE, NO. 3, AS PER PLAN (2)	P.0048
4			4			611	99575	4	EACH	MANHOLE, NO. 3, AS PER PLAN (3)	P.0063
		2	2			611	99660	2	EACH	MANHOLE RECONSTRUCTED TO GRADE	
		1	1			611	99690	1	EACH	MANHOLE, MISC.: MH-3 MODIFIED	P.0049

GENERAL SUMMARY

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: BER

REVIEWER: VDK 08/09/23

PROJECT ID: 76779

SHEET: P.0319 TOTAL: P.1587

CUY-90-6.69

MODEL: Sheet 4 PAPERSIZE: 17x11 (in.) DATE: 4/25/2025 TIME: 9:33:23 AM USER: jsima
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SHEET NUM.											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
OFFICE CALCS	50	51	61	66	337	1290					01/IMS/04	02/IMS/13	03/IMS/13						
																		PAVEMENT	
	2,000										2,000			251	01020	2,000	SY	PARTIAL DEPTH PAVEMENT REPAIR (442)	
16,847				15,381							32,228			254	01000	32,228	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.5"	
			6,000								6,000			254	01000	6,000	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3"	
89,922											89,922			302	66001	89,922	CY	ASPHALT CONCRETE BASE, AS PER PLAN, 25.0 MM GYRATORY MIX	P.0049
111,594											111,594			304	20000	111,594	CY	AGGREGATE BASE	
63,641			660	847							65,148			407	10000	65,148	GAL	TACK COAT	
671											671			441	10101	671	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), AS PER PLAN, PG 70-22M	P.0049
			500	641							1,141			441	70101	1,141	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN, PG64-22	P.0061
					726						726			441	70801	726	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN	P.0050
18,367											18,367			442	10080	18,367	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	
15,807											15,807			442	10331	15,807	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), PWL 2025, AS PER PLAN, PG76-22M	P.0050
42											42			442	22101	42	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN, PG76-22M	P.0050
49,422											49,422			452	14122	49,422	SY	11.5" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P WITH QC/QA	
159											159			609	14000	159	FT	CURB, TYPE 2-A	
34											34			609	23001	34	FT	COMBINATION CURB AND GUTTER, TYPE 4, AS PER PLAN	P.0046
18,952											18,952			609	24000	18,952	FT	CURB, TYPE 4-A	
31,848											31,848			609	24510	31,848	FT	CURB, TYPE 4-C	
950											950			609	50000	950	SY	4" CONCRETE TRAFFIC ISLAND	
	16.79										16.79			618	40601	16.79	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE), AS PER PLAN	P.0050
																		WATER WORK	
		170									170			638	07310	170	FT	24" STEEL PIPE ENCASEMENT, BORED OR JACKED	
		2									2			638	98000	2	EACH	WATER WORK, MISC.: 12" X 12" TAPPING SLEEVE, VALVE AND VALVE BOX, CITY OF LAKEWOOD	P.0051
		238									238			638	98600	238	FT	WATER WORK, MISC.: 12" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 56, MECHANICAL JOINTS AND FITTINGS, CITY OF LAKEWOOD	P.0051
																		LIGHTING	
						423					423			625	00450	423	EACH	CONNECTION, FUSED PULL APART	
						207					207			625	00480	207	EACH	CONNECTION, UNFUSED PERMANENT	
						58					58			625	10494	58	EACH	LIGHT POLE, LOW MAST, ALM50	
						142					142			625	10494	142	EACH	LIGHT POLE, LOW MAST, ATLM50	
						40					40			625	10614	40	EACH	LIGHT POLE ANCHOR BOLTS ON STRUCTURE	
						1					1			625	14000	1	EACH	LIGHT POLE FOUNDATION, 24" X 6' DEEP	
						142					142			625	14200	142	EACH	LIGHT POLE FOUNDATION, 24" X 10' DEEP	
						48					48			625	14307	48	EACH	MEDIAN LIGHT POLE FOUNDATION, 10' DEEP, AS PER PLAN	P.1309
						75,825					75,825			625	23200	75,825	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
						30,150					30,150			625	23400	30,150	FT	NO. 10 AWG POLE AND BRACKET CABLE	
						43,650					43,650			625	24320	43,650	FT	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	
						749					749			625	25300	749	FT	CONDUIT, 1-1/2", 725.04	
						950					950			625	25304	950	FT	CONDUIT, 1-1/2", 725.051	
						3,729					3,729			625	25408	3,729	FT	CONDUIT, 2", 725.051	
						3,746					3,746			625	25902	3,746	FT	CONDUIT, JACKED OR DRILLED, 725.04, 3"	
						200					200			625	26273	200	EACH	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, 480V	P.1310
						11					11			625	27503	11	EACH	LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN, 480V	P.1310
						4					4			625	27503	4	EACH	LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN, CPP FIXTURE	P.1310
						32,377					32,377			625	29000	32,377	FT	TRENCH	
						14					14			625	29900	14	EACH	JUNCTION BOX	
						8					8			625	29930	8	EACH	MEDIAN JUNCTION BOX	
						56					56			625	30700	56	EACH	PULL BOX, 725.08, 18"	
						16					16			625	30706	16	EACH	PULL BOX, 725.08, 24"	
						3					3			625	30731	3	EACH	PULL BOX, 725.08, 48", TYPE 1, AS PER PLAN	P.1310
						1					1			625	31510	1	EACH	PULL BOX REMOVED	
						191					191			625	32000	191	EACH	GROUND ROD	
						3					3			625	33001	3	EACH	STRUCTURE GROUNDING SYSTEM, AS PER PLAN	P.1310
						7					7			625	34001	7	EACH	POWER SERVICE, AS PER PLAN	P.1309
						2					2			625	34450	2	EACH	CONTROL CENTER CABINET, COMPLETE	

R1 R3 R1 R3 R1 R3 R9 R1 R9 R8

GENERAL SUMMARY

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: BER

REVIEWER: VDK 08/09/23

PROJECT ID: 76779

SHEET: P.0320 TOTAL: P.1587

CUY-90-6.69

MODEL: Sheet 5 PAPERSIZE: 17x11 (in.) DATE: 4/25/2025 TIME: 9:32:11 AM USER: jsima
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SHEET NUM.									PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
51	1153	1353	1357	1361					01/IMS/04	02/IMS/13	03/IMS/13						
																TRAFFIC SIGNALS	
10									10			632	26501	10	EACH	DETECTOR LOOP, AS PER PLAN	P.0051
																RETAINING WALLS (RW1, RW2, RW3 AND RW4)	
	LS									LS		202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	P.1348
	39,845									39,845		509	10000	39,845	LB	EPOXY COATED STEEL REINFORCEMENT	
	21,388									21,388		509	30020	21,388	FT	NO. 4 DEFORMED GFRP REINFORCEMENT	
	2,152									2,152		510	10000	2,152	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
	324									324		511	34450	324	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)	
	1,578									1,578		512	10100	1,578	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
	279									279		516	13600	279	SF	1" PREFORMED EXPANSION JOINT FILLER	
																STRUCTURE OVER 20 FOOT SPAN (CUY-00020-08.470)	
		106								106		512	10100	106	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
		89								89		512	10600	89	FT	CONCRETE REPAIR BY EPOXY INJECTION	
		40								40		SPECIAL	51271500	40	SY	URETHANE TOP COAT SEALER	P.1349
		50								50		514	20001	50	SF	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN	P.1353
		LS								LS		518	63300	LS		STRUCTURE DRAINAGE, MISC.: CLEAN OUT EXISTING DRAINAGE SYSTEM	P.1349
		358								358		SPECIAL	51900100	358	SF	COMPOSITE FIBER WRAP SYSTEM	P.1350
		944								944		519	11101	944	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	P.1350
		4								4		SPECIAL	53000400	4	EACH	STRUCTURES: DRILLING ENDS OF CRACKS IN STRUCTURAL STEEL	P.1353
		10								10		SPECIAL	53000500	10	HOUR	STRUCTURES: REPAIRING DAMAGED MEMBERS BY GRINDING	P.1353
																STRUCTURE OVER 20 FOOT SPAN (CUY-00090-07.540)	
			24							24		512	10100	24	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
			12							12		512	10600	12	FT	CONCRETE REPAIR BY EPOXY INJECTION	
			68							68		SPECIAL	51271500	68	SY	URETHANE TOP COAT SEALER	P.1349
			607							607		SPECIAL	51900100	607	SF	COMPOSITE FIBER WRAP SYSTEM	P.1350
			576							576		519	11101	576	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	P.1350
			559							559		607	35001	559	FT	FENCE REMOVED AND REBUILT, AS PER PLAN	P.1350
			1							1		625	33001	1	EACH	STRUCTURE GROUNDING SYSTEM, AS PER PLAN	P.1350
																STRUCTURE OVER 20 FOOT SPAN (CUY-00090-07.580)	
				LS							LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	P.1348
				427							427	202	22900	427	SY	APPROACH SLAB REMOVED	
				427							427	202	23500	427	SY	WEARING COURSE REMOVED	
				174							174	503	21100	174	CY	UNCLASSIFIED EXCAVATION	
				82,313							82,313	509	10000	82,313	LB	EPOXY COATED STEEL REINFORCEMENT	
				800							800	509	20001	800	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN	P.1348
				192							192	510	10000	192	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
				58							58	511	34412	58	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE	
				83							83	511	34450	83	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)	
				24							24	511	44112	24	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT NOT INCLUDING FOOTING	
				218							218	511	53012	218	CY	CLASS QC2 CONCRETE, MISC.:ABUTMENT SLABS	
				13,311							13,311	512	10050	13,311	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
				4,036							4,036	512	10100	4,036	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
				927							927	512	10300	927	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
				1,299							1,299	512	10400	1,299	SY	TREATING OF CONCRETE BRIDGE DECK WITH SRS	
				1,299							1,299	512	73500	1,299	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	

R4 R9 R3 R7 R7 R9 R7 R7

GENERAL SUMMARY

CUY-90-6.69

MODEL: Sheet 8 PAPERSIZE: 34x22 (in.) DATE: 4/23/2025 TIME: 7:27:16 PM USER: jsima
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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
BER

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0323 TOTAL P.1587

ESTIMATED QUANTITIES

Sheet 348	Sheet 349	Sheet 350	Sheet 351	Sheet 352	Sheet 353	Sheet 354	Sheet 356	Sheet 357	Sheet 358	Sheet 359	Sheet 359A	Sheet 368	ITEM	EXTENSION	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET
2328	3666	2266											202	35100	8,260	FT	PIPE REMOVED, 24" DIAMETER AND UNDER	
2157	4276	3067											202	35200	9,500	FT	PIPE REMOVED, OVER 24" DIAMETER	
17	11	9											202	58000	37	EACH	MANHOLE REMOVED	
40	30	31											202	58100	101	EACH	CATCH BASIN REMOVED	
33	65	52											202	58200	150	EACH	INLET REMOVED	
761	1950	2322											202	70000	5,033	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 15"	P.0048
208	411	331											202	70000	950	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 18"	P.0048
217	301	388											202	70000	906	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 21"	P.0048
321	68	669											202	70000	1,058	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 24"	P.0048
247													202	70000	247	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 30"	P.0048
	300	275											202	70000	575	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 36"	P.0048
73	310	287											202	70000	670	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 42"	P.0048
		773											202	70000	773	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 48"	P.0048
738	643	897											202	70000	2,278	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 54"	P.0048
1701		1043											202	70000	2,744	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 60"	P.0048
				145									202	70110	145	FT	SPECIAL - PIPE CLEANOUT, 24" AND UNDER	
				190									202	70120	190	FT	SPECIAL - PIPE CLEANOUT, 27" TO 48"	
												7.12	601	21050	7.12	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
												124329	605	11110	124,329	FT	6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
												102604	605	14021	102,604	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN	P.0048
												5889	611	00510	5,889	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
												4	611	99710	4	EACH	PRECAST REINFORCED CONCRETE OUTLET	
			46	11						11			611	04400	68	FT	12" CONDUIT, TYPE B	
										68			611	04600	68	FT	12" CONDUIT, TYPE C	
			1040	167			171	2320	1310	1322			611	05900	6,330	FT	15" CONDUIT, TYPE B	
			286	226			615	24	595	352			611	06100	2,098	FT	15" CONDUIT, TYPE C	
							73						611	06700	73	FT	15" CONDUIT, TYPE F	
			126	84				218	202				611	07400	630	FT	18" CONDUIT, TYPE B	
							6			34			611	07600	40	FT	18" CONDUIT, TYPE C	
			168	194				206	190				611	10400	758	FT	24" CONDUIT, TYPE B	
			332				966	17					611	10600	1,315	FT	24" CONDUIT, TYPE C	
							244						611	13600	244	FT	30" CONDUIT, TYPE C	
				33									611	16400	33	FT	36" CONDUIT, TYPE B	
			763										611	16600	763	FT	36" CONDUIT, TYPE C	
			101										611	19400	101	FT	42" CONDUIT, TYPE B	
			493										611	19600	493	FT	42" CONDUIT, TYPE C	
							640	1874					611	22600	2,514	FT	54" CONDUIT, TYPE C	
			466										611	23800	466	FT	60" CONDUIT, TYPE B	
			79	49	122	65		126					611	96600	441	FT	CONDUIT, BORED OR JACKED, 15", TYPE B	
			67	74									611	96600	141	FT	CONDUIT, BORED OR JACKED, 24", TYPE B	
			58										611	96600	58	FT	CONDUIT, BORED OR JACKED, 36", TYPE B	
			170										611	96600	170	FT	CONDUIT, BORED OR JACKED, 36", TYPE C	
			155										611	96600	155	FT	CONDUIT, BORED OR JACKED, 42", TYPE B	
									310				611	96600	310	FT	CONDUIT, BORED OR JACKED, 54", TYPE C	
													611	97400	24	FT	CONDUIT, MISC.; 12" CONDUIT, TYPE B, ROCK CUT	P.0049
											199		611	96601	199	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 24", TYPE B	P.0049
											256		611	96601	256	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 30", TYPE C	P.0049
											92		611	96601	92	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 36", TYPE B	P.0049
											143		611	96601	143	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 42", TYPE B	P.0049
											211		611	96601	211	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 42", TYPE C	P.0049
											156		611	96601	156	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 48", TYPE B	P.0049
											181		611	96601	181	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 48", TYPE C	P.0049
											147		611	96601	147	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 54", TYPE B	P.0049
											155		611	96601	155	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 60", TYPE B	P.0049
											703		611	96601	703	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 66", TYPE B	P.0049

DRAINAGE SUB-SUMMARY

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: BER

REVIEWER: VDK 08/09/23

PROJECT ID: 76779

SHEET: P.0346 TOTAL: P.1587

CUY-90-6.69

MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 4/25/2025 TIME: 10:05:30 AM USER: jsima
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ESTIMATED QUANTITIES

Sheet 351	Sheet 352	Sheet 353	Sheet 354	Sheet 355	Sheet 356	Sheet 357	Sheet 358	Sheet 359	Sheet 359A	Sheet 370	ITEM	EXTENSION	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET
			17	19							611	97400	36	FT	CONDUIT, MISC.: 12" CONDUIT, TYPE C, ROCK CUT	P.0049
	422	1245	2738	3637	350	276	1556	59			611	97400	10,283	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE B, ROCK CUT	P.0049
	84	230	41	61	473	13	551	79			611	97400	1,532	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE C, ROCK CUT	P.0049
		28		57							611	97400	85	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE F, ROCK CUT	P.0049
		91	889	1117	299		127				611	97400	2,523	FT	CONDUIT, MISC.: 18" CONDUIT, TYPE B, ROCK CUT	P.0049
		556		61	376						611	97400	993	FT	CONDUIT, MISC.: 18" CONDUIT, TYPE C, ROCK CUT	P.0049
	135	88	268	375			542				611	97400	1,408	FT	CONDUIT, MISC.: 24" CONDUIT, TYPE B, ROCK CUT	P.0049
		198		31							611	97400	229	FT	CONDUIT, MISC.: 24" CONDUIT, TYPE C, ROCK CUT	P.0049
	63		6				114				611	97400	183	FT	CONDUIT, MISC.: 30" CONDUIT, TYPE B, ROCK CUT	P.0049
	109	256			1165						611	97400	1,530	FT	CONDUIT, MISC.: 30" CONDUIT, TYPE C, ROCK CUT	P.0049
			248								611	97400	248	FT	CONDUIT, MISC.: 36" CONDUIT, TYPE B, ROCK CUT	P.0049
					332						611	97400	332	FT	CONDUIT, MISC.: 36" CONDUIT, TYPE C, ROCK CUT	P.0049
		196			67						611	97400	263	FT	CONDUIT, MISC.: 42" CONDUIT, TYPE B, ROCK CUT	P.0049
		196			592						611	97400	788	FT	CONDUIT, MISC.: 42" CONDUIT, TYPE C, ROCK CUT	P.0049
	1959	352	102								611	97400	2,413	FT	CONDUIT, MISC.: 48" CONDUIT, TYPE B, ROCK CUT	P.0049
	380										611	97400	380	FT	CONDUIT, MISC.: 54" CONDUIT, TYPE B, ROCK CUT	P.0049
					289	110					611	97400	399	FT	CONDUIT, MISC.: 54" CONDUIT, TYPE C, ROCK CUT	P.0049
	854					9					611	97400	863	FT	CONDUIT, MISC.: 60" CONDUIT, TYPE B, ROCK CUT	P.0049
						209					611	97400	209	FT	CONDUIT, MISC.: 60" CONDUIT, TYPE C, ROCK CUT	P.0049
	1631										611	97400	1,631	FT	CONDUIT, MISC.: 66" CONDUIT, TYPE B, ROCK CUT	P.0049
	174										611	97400	174	FT	CONDUIT, MISC.: 66" CONDUIT, TYPE C, ROCK CUT	P.0049
5	6	4	6	3	2	3	7	5			611	98150	41	EACH	CATCH BASIN, NO. 3	
								1			611	98151	1	EACH	CATCH BASIN, NO. 3, AS PER PLAN	P.0048
4	2	3	2	3	1		1				611	98180	16	EACH	CATCH BASIN, NO. 3A	
10	10	11	6	4	4	5	10	5			611	98300	65	EACH	CATCH BASIN, NO. 5	
					1						611	98301	1	EACH	CATCH BASIN, NO. 5, AS PER PLAN	P.0048
				1	1	2	2	1			611	98370	7	EACH	CATCH BASIN, NO. 6	
				1							611	98510	1	EACH	CATCH BASIN, NO. 2-3	
								1			611	98690	1	EACH	CATCH BASIN, MISC.:CITY OF CLEVELAND CB-1 CATCH BASIN	P.0048
5	5	3	2	2							611	99100	17	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1	
	1										611	98811	1	EACH	INLET, NO. 3C, AS PER PLAN	
		3	4								611	99110	7	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1	
		2			1	1	2				611	98820	6	EACH	INLET, NO. 3D	
1		4	18	15	1	2	4	2			611	98840	47	EACH	INLET, NO. 2-A-6	
2	1	1	7	9	2	6	4	3			611	98850	35	EACH	INLET, NO. 2-A-8	
1			3	1	1	8	9	2			611	98860	25	EACH	INLET, NO. 2-A-10	
	1			1	4	1	2	1			611	98870	10	EACH	INLET, NO. 2-A-12	
			2	3		1	1	1			611	98880	8	EACH	INLET, NO. 2-A-14	
			2								611	98890	2	EACH	INLET, NO. 2-A-16	
		1									611	99000	1	EACH	INLET, NO. 2-A-18	
11	18	8	1	3	22	15	4	1	9		611	99574	92	EACH	MANHOLE, NO. 3	
7	6	2					2		4		611	99575	21	EACH	MANHOLE, NO. 3, AS PER PLAN	P.0048A
					1						611	99575	1	EACH	MANHOLE, NO. 3, AS PER PLAN (2)	P.0048
1	1										611	99660	2	EACH	MANHOLE RECONSTRUCTED TO GRADE	
	1										633	99690	1	EACH	MANHOLE, MISC.: MH-3 MODIFIED	P.0048
										1608	659	00300	1,608	CY	TOPSOIL	
										14216	670	00500	14,216	SY	SLOPE EROSION PROTECTION	
										11691	670	00720	11,691	SY	DITCH EROSION PROTECTION MAT, TYPE B	
										444	836	10000	444	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	

DRAINAGE SUB-SUMMARY

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: BER

REVIEWER: VDK 08/09/23

PROJECT ID: 76779

SHEET P.0347 TOTAL P.1587

CUY-90-6.69

MODEL: Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 4/25/2025 TIME: 9:26:48 AM USER: kmorton
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DRAINAGE REMOVAL ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE		202 PIPE REMOVED, 24" DIAMETER AND UNDER	202 PIPE REMOVED, OVER 24" DIAMETER	202 MANHOLE REMOVED	202 CATCH BASIN REMOVED	202 INLET REMOVED		202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, 15"	202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, 18"	202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, 21"	202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, 24"	202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, 30"	202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, 42"	202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, 54"	202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, 60"	FOR INFORMATION ONLY MAX SIZE	APPROXIMATE MAXIMUM DEPTH	REMOVAL / FILL AND PLUG PHASE
							FT	FT	EACH	EACH	EACH		FT	FT	FT	FT	FT	FT	FT	FT	INCHES	FT	
1047	DR-1	RAMP HB	30+69.99	30+71.38	LT		6			1											12	5.00	3,5
1048	DR-2	HILLIARD BLVD	82+10.38	82+16.20	LT		15			1											12	3.00	3,5
1047	DR-2A	IR 90	353+38.00	530+49.99	RT		292														24	SEE IR 90 PROFILES	1-3
1047	DR-3	IR 90	529+97.58	531+01.05	LT		52			1	2		52								15	5.50	3,5
1047	DR-4	IR 90	530+49.20	530+49.46	LT		9			1											12	4.00	3,5
1047	DR-5	IR 90	530+49.46	530+49.96	LT										57						21	6.50	3,5
1047	DR-6	IR 90	529+99.40	531+00.00	C/L		114				3										15	5.25	3,5
1047	DR-7	IR 90	529+98.44	531+02.17	RT		51			1	2		50								15	5.00	3,5
1047	DR-8	IR 90	530+49.96	530+49.99	RT				1							64					24	10.00	3,5
1047	DR-9	IR 90	530+49.99	533+49.86	RT		10	296	1	1											30	SEE IR 90 PROFILES	1-3
1048	DR-10	IR 90	533+40.71	533+49.86	RT		88			1											15	3.25	3,5
1048	DR-11	IR 90	533+49.86	536+00.87	RT												247				N/A	NO PIPE REMOVAL	1-5
1048	DR-12	IR 90	535+85.73	536+00.00	LT		32			1			32								15	4.00	3,5
1048	DR-13	IR 90	536+00.00	536+00.87	RT						1			74							N/A	NO PIPE REMOVAL	3,5
1048	DR-14	IR 90	536+00.87	538+50.87	RT			247	1												33	SEE IR 90 PROFILES	3
1048	DR-15	IR 90	535+19.21	536+00.87	RT					1			91								N/A	NO PIPE REMOVAL	3,5
1048	DR-16	RAMP HA	35+61.87	535+19.21	LT/RT		88			1											15	4.00	3,5
1048	DR-17	IR 90	538+50.87	540+41.17	RT			192	1												33	SEE IR 90 PROFILES	3
1048	DR-18	IR 90	539+89.55	540+92.48	RT		101			2	2										15	4.25	3,5
1048	DR-19	IR 90	540+41.17	542+86.65	RT			242		1											36	SEE IR 90 PROFILES	3
1048	DR-20	IR 90	542+76.44	542+86.65	RT		8			1											21	3.25	3,5
1048	DR-21	IR 90	541+67.74	542+72.53	LT		99				1										15	4.25	3,5
1048	DR-22	IR 90	5427+58.24	543+75.24	LT		95			2											15	5.00	3,5
1048	DR-23	IR 90	542+72.53	543+29.94	LT		72		1	1											18	7.00	3,5
1048	DR-24	IR 90	542+72.53	542+86.65	LT/RT		31			1	1			31		105					21	8.00	3,5
1048	DR-25	IR 90	542+86.65	545+25.29	RT			235		1											42	SEE IR 90 PROFILES	3
1049	DR-26	IR 90	545+25.29	547+24.66	RT			234		1											42	SEE IR 90 PROFILES	1-3
1049	DR-27	IR 90	547+24.66	547+44.00	LT/RT		43			1	1		43								15	6.00	3,5
1049	DR-28	IR 90	546+92.77	547+24.66	RT		23	10	1	1	1							73			15	5.25	3,5
1049	DR-29	IR 90	547+24.66	551+80.86	RT			190	1											270	60	SEE IR 90 PROFILES	1-3
1049	DR-30	IR 90	551+80.86	554+00.92	RT		216														24	8.00	3,5
1049	DR-31	IR 90	554+00.14	554+00.92	LT/RT		17		1	2	3										24	8.00	3,5
1051	DR-32	IR 90	571+99.84	572+00.00	RT		6				1										18	4.00	3,5
1051	DR-33	IR 90	572+00.00	574+25.00	LT/RT		370		2	4	4			69	3	59					18	5.00	1-2
1051	DR-34	IR 90	574+25.00	574+92.46	RT			68	1												27	SEE IR 90 PROFILES	1-3
1052	DR-35	IR 90	582+86.41	586+93.90	LT			413	1												60	SEE IR 90 PROFILES	1 OR 5
1052	DR-36	IR 90	582+86.41	583+16.39	LT/RT		80	30		2	3					80					27	6.00	3,5
1052	DR-37	IR 90	586+93.90	593+24.03	LT				1											655	N/A	NO PIPE REMOVAL	1 OR 5
1052	DR-38	IR 90	589+24.64	590+48.88	LT/RT		133		1	1	1				91						21	10.00	3,5
1052	DR-39	IR 90	590+48.88	591+00.00	RT		49			1											12	3.00	3,5
1052	DR-40	IR 90	590+56.69	590+55.18	LT					1			29								12	16.75	3,5
1053	DR-41	IR 90	593+24.03	594+50.71	LT					2			163								N/A	NO PIPE REMOVAL	3,5
1053	DR-42	IR 90	593+24.03	595+96.47	LT				1											275	N/A	NO PIPE REMOVAL	1-5
1053	DR-43	IR 90	595+96.47	601+01.65	LT				1											501	N/A	NO PIPE REMOVAL	1-5
1053	DR-44	IR 90	600+48.70	601+25.84	LT						2		75								N/A	NO PIPE REMOVAL	3,5
1053	DR-45	IR 90	600+52.95	601+50.99	RT		50				2		46								15	3.50	3,5
1053	DR-46	IR 90	600+49.88	601+48.32	C/L		49				2		49								15	5.75	3,5
1053	DR-47	IR 90	600+99.93	601+01.65	LT/RT		55			4	1			34	66	13					24	5.75	3,5
1053	DR-48	IR 90	601+01.65	604+99.78	LT				1										399		N/A	NO PIPE REMOVAL	1-5
1053	DR-49	IR 90	604+98.11	604+99.78	LT/RT		74			1			131								N/A	NO PIPE REMOVAL	3,5
1054	DR-50	IR 90	604+99.78	608+42.25	LT														339		N/A	NO PIPE REMOVAL	1-5
TOTALS CARRIED TO SHEET 346							2328	2157	17	40	33		761	208	217	321	247	73	738	1701			

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
BER

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0348 TOTAL P.1587

CUY-90-6.69

MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 4/25/2025 TIME: 9:57:27 AM USER: jsima
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DRAINAGE REMOVAL ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE		202 PIPE REMOVED, 24" DIAMETER AND UNDER	202 PIPE REMOVED, OVER 24" DIAMETER	202 MANHOLE REMOVED	202 CATCH BASIN REMOVED	202 INLET REMOVED	202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, 15"	202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, 18"	202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, 21"	202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, 24"	202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, 36"	202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, 42"	202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, 54"			FOR INFORMATION ONLY MAX SIZE	APPROXIMATE MAXIMUM DEPTH	REMOVAL / FILL AND PLUG PHASE
							FT	FT	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	FT			INCHES	FT	
1054	DR-51	IR 90	608+42.25	611+74.68	LT													323			N/A	NO PIPE REMOVAL	1-5
1054	DR-52	IR 90	610+20.73	611+74.68	LT/RT					3	1	362									15	4.00	3,5
1054	DR-53	IR 90	611+74.68	612+89.67	LT		114			1	1										15	7.00	3,5
1054	DR-54	IR 90	611+74.68	613+41.30	LT			166	1												54	SEE IR 90 PROFILES	5
1054	DR-55	IR 90	613+41.30	616+69.15	LT				1									320			N/A	NO PIPE REMOVAL	1-5
1054	DR-56	IR 90	616+69.15	617+02.50	LT/RT		40			4	1	76		87							15	4.25	3,5
1054	DR-57	IR 90	616+20.41	617+25.11	LT		103				2										15	3.75	3,5
1054	DR-58	IR 90	616+50.00	617+48.61	C/L		99				2										15	5.75	3,5
1054	DR-59	IR 90	616+69.15	616+99.14	LT			227	1												54	SEE IR 90 PROFILES	5
1055	DR-60	IR 90	616+99.12	616+99.14	LT/RT						1	88									N/A	NO PIPE REMOVAL	3,5
1055	DR-61	IR 90	616+99.14	620+61.54	LT			362			1										36	SEE IR 90 PROFILES	5
1055	DR-62	IR 90	620+61.54	621+57.47	LT			96	1												54	SEE IR 90 PROFILES	5
1055	DR-63	IR 90	619+01.66	621+58.00	RT		270			2	1										21	10.00	3,5
1055	DR-64	IR 90	621+58.00	626+51.39	RT		495				2										18	6.50	3,5
1055	DR-65	IR 90	621+57.47	621+58.00	LT/RT		89	81	1		1										27	8.50	3,5
1055	DR-66	IR 90	621+57.47	624+71.90	LT			314			1										54	SEE IR 90 PROFILES	5
1055	DR-67	IR 90	624+71.90	627+99.08	LT			327			1										54	SEE IR 90 PROFILES	5
1055	DR-68	IR 90	627+99.08	629+54.08	LT			155			1										48	SEE IR 90 PROFILES	5
1056	DR-69	IR 90	629+46.38	629+54.08	LT/RT		38			1	3	72	94								15	5.25	3,5
1056	DR-70	IR 90	629+50.94	630+02.25	RT		52				1										15	4.25	3,5
1056	DR-71	IR 90	629+54.08	631+24.97	LT			171	1												48	SEE IR 90 PROFILES	5
1056	DR-72	IR 90	631+24.97	634+49.92	LT		6	325			1										48	SEE IR 90 PROFILES	5
1056	DR-73	IR 90	634+47.10	634+49.92	LT		7				1											6.25	3,5
1056	DR-74	IR 90	634+49.92	634+75.00	LT				1								33				N/A	NO PIPE REMOVAL	1-5
1056	DR-75	IR 90	634+71.12	634+75.00	LT/RT		77			1	1	120									15	6.25	3,5
1056	DR-76	IR 90	634+71.70	637+51.73	RT		282			1											15	5.00	3,5
1056	DR-77	IR 90	634+75.00	636+57.89	LT			183	1												48	SEE IR 90 PROFILES	5
1056	DR-78	IR 90	636+57.89	639+21.41	LT			264			1										48	SEE IR 90 PROFILES	5
1056	DR-79	IR 90	639+21.41	639+25.26	LT/RT		56			1	3	33		80							21	8.00	3,5
1056	DR-80	IR 90	639+21.41	642+75.04	LT			354			1										48	SEE IR 90 PROFILES	5
1057	DR-81	IR 90	642+75.04	645+99.96	LT			325			1										42	SEE IR 90 PROFILES	5
1057	DR-82	IR 90	645+99.96	649+23.52	LT		8	324			1										42	SEE IR 90 PROFILES	5
1057	DR-83	IR 90	649+23.52	649+26.95	LT/RT		74			1	3	68			68							8.00	3,5
1057	DR-84	IR 90	649+26.95	651+97.82	LT		6	275			1										36	SEE IR 90 PROFILES	5
1057	DR-85	IR 90	651+97.82	653+23.61	LT/RT		76			1	1	204										5.00	3,5
1058	DR-86	IR 90	651+97.82	654+97.09	LT						1					300					N/A	NO PIPE REMOVAL	5
1058	DR-87	IR 90	654+97.09	654+89.43	LT/RT		206			2	2		33	66							21	10.00	3,5
1058	DR-88	IR 90	654+97.09	657+75.44	LT		290				1										24	12.50	5
1058	DR-89	IR 90/RAMP W1A	657+75.44	658+83.39	LT		154			1	2										15	7.75	3,5
1058	DR-90	IR 90	657+75.44	660+48.91	LT		274				1										21	12.25	5
1058	DR-91	IR 90/RAMP W2A	660+48.91	661+50.50	LT/RT		246		2	4	5	80	68	68							21	12.25	3,5
1058	DR-92	RAMP W1A	60+38.31	62+39.76	LT		201				2	48									15	4.00	3,5
1059	DR-93	IR 90	666+49.65	666+69.10	LT/RT		43			1	3	187									15	5.75	3,5
1059	DR-94	IR 90	668+99.49	669+21.41	LT/RT		83				3	140									15	6.25	3,5
1059	DR-95	IR 90/RAMP 140-4	674+50.13	677+52.73	LT/RT		112	260		2	5	190										SEE IR 90 PROFILES	1-3
1060	DR-96	IR 90	677+49.35	677+52.73	LT/RT		39			1	3	122									1.25		3,5
1060	DR-97	IR 90	677+52.73	678+28.62	LT/RT			67	1								277					SEE IR 90 PROFILES	1-5
1061	DR-98	IR 90	695+00.00	695+03.02	LT/RT		7			2		160									1.5		3,5
1061	DR-99	IR 90	698+74.99	698+75.04	LT/RT		119			1	1										1.25	4.75	3,5
1061	DR-100	IR 90	698+75.04	700+50.43	LT/RT						1		216									SEE IR 90 PROFILES	1-3
TOTALS CARRIED TO SHEET 346							3666	4276	11	30	65	1950	411	301	68	300	310	643					

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
BER

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0349 TOTAL P.1587

CUY-90-6.69

MODEL: Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 4/25/2025 TIME: 9:58:22 AM USER: jsima
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DRAINAGE REMOVAL ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE		202 PIPE REMOVED, 24" DIAMETER AND UNDER	202 PIPE REMOVED, OVER 24" DIAMETER	202 MANHOLE REMOVED	202 CATCH BASIN REMOVED	202 INLET REMOVED	202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, 15"	202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, 18"	202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, 21"	202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, 24"	202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, 36"	202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, 42"	202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, 48'	202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, 54"	202 SPECIAL - FILL AND PLUG EXISTING CONDUIT, 60"	FOR INFORMATION ONLY MAX SIZE	FOR INFORMATION ONLY APPROXIMATE MAXIMUM DEPTH	FOR INFORMATION ONLY REMOVAL / FILL AND PLUG PHASE
							FT	FT	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	FT	FT	FT	INCHES	FT	
1062	DR-101	IR 90	700+50.43	703+99.51	RT		369				1											SEE IR 90 PROFILES	3
1062	DR-102	IR 90	703+99.51	708+77.82	RT						1				498						N/A	NO PIPE REMOVAL	3
1062	DR-103	IR 90	708+75.34	708+77.82	LT/RT		52				3	70		70							21	70.00	
1062	DR-104	IR 90	708+77.82	711+02.81	RT			227			1											SEE IR 90 PROFILES	
1062	DR-105	IR 90	711+02.81	713+77.57	RT						1					275					N/A	NO PIPE REMOVAL	3
1063	DR-106	IR 90	713+77.57	716+54.97	RT			278			1											SEE IR 90 PROFILES	3
1063	DR-107	IR 90	716+54.97	718+70.89	RT			216			1											SEE IR 90 PROFILES	3
1063	DR-108	IR 90	718+70.89	718+74.55	LT/RT					1	3	79	51	79							N/A	NO PIPE REMOVAL	3,5
1063	DR-109	IR 90	718+70.89	720+28.01	RT			158			1											SEE IR 90 PROFILES	3
1063	DR-110	IR 90	720+28.01	722+28.08	RT			200			1											SEE IR 90 PROFILES	3
1063	DR-111	IR 90	722+28.08	25+23.63	RT			293			1											SEE IR 90 PROFILES	3
1064	DR-112	RAMP 117-8	25+23.63	26+49.69	RT			125			1											SEE IR 90 PROFILES	3
1064	DR-113	RAMP 117-8	26+49.69	27+24.33	RT		74			1											15		3,5
1064	DR-114	RAMP 117-8	27+24.33	27+86.06	RT		62				1										12	3.75	3,5
1064	DR-115	RAMP 117-8	26+49.69	727+98.22	LT/RT			196			1											SEE IR 90 PROFILES	3
1064	DR-116	IR 90	726+96.12	727+98.22	LT/RT		102			2	4	175	68								15		3,5
1064	DR-117	IR 90	727+98.22	729+40.39	RT						1						146				N/A	NO PIPE REMOVAL	3
1064	DR-118	IR 90/RAMP 117-7	729+40.39	26+77.81	LT/RT		68				2	268									15		3,5
1064	DR-119	RAMP 117-8	32+93.45	33+61.74	LT		69			1											12		3,5
1064	DR-120	IR 90	729+40.39	730+79.77	RT					1							141				N/A	NO PIPE REMOVAL	3
1064	DR-121	IR 90	730+41.48	731+64.96	RT					1	1	184									N/A	NO PIPE REMOVAL	3,5
1064	DR-122	IR 90	730+79.77	736+00.00	RT					1								521			N/A	NO PIPE REMOVAL	3
1064	DR-123	IR 90	732+38.25	735+91.68	LT		136		1	1	2	243									15		3,5
1065	DR-124	IR 90	735+91.68	736+00.00	LT/RT		87			2	3			122	81						24	203.00	3,5
1065	DR-125	RAMP 117-12	33+55.64	33+65.00	RT		10			1											12		3,5
1065	DR-126	RAMP117-12/IR 90	34+67.93	735+91.68	LT/RT		260			1	2	200									15		3,5
1065	DR-127	IR 90	736+00.00	738+50.41	RT				1									252			N/A	NO PIPE REMOVAL	3
1065	DR-128	IR 90	738+50.41	740+55.53	RT			206			1											SEE IR 90 PROFILES	3
1065	DR-129	IR 90	739+89.27	741+66.51	RT		116			1	1	73									15		3,5
1065	DR-130	IR 90	740+55.53	744+25.33	RT			370														SEE IR 90 PROFILES	3
1065	DR-131	RAMP117-12/IR 90	39+52.65	744+25.33	LT/RT		167			3	4	240	55	117	90						21	207.00	3,5
1065	DR-132	IR 90	744+25.33	749+62.02	RT			537	1													SEE IR 90 PROFILES	3
1066	DR-133	IR 90	749+62.02	751+57.00	LT/RT			156			1								153			SEE IR 90 PROFILES	2-4
1066	DR-134	IR 90	749+48.51	751+57.00	LT		92				1		130								18		3,5
1066	DR-135	IR 90	751+57.00	757+98.00	LT				4										640		N/A	NO PIPE REMOVAL	4
1066	DR-136	IR 90	754+00.38	754+72.84	LT/RT		38			2	1	120									15		3,5
1066	DR-137	IR 90	754+75.01	755+76.34	LT/RT		111			3	1	129									15		3,5
1066	DR-138	IR 90	755+49.97	756+75.70	LT/RT		208			2	1	51									15		3,5
1066	DR-139	IR 90	757+74.99	757+98.00	LT		78			1											15		3,5
1066	DR-140	IR 90	757+98.00	759+93.76	LT			105	1										104			SEE IR 90 PROFILES	4-5
1067	DR-141	IR 90	759+93.76	763+79.22	LT				1											375	N/A	NO PIPE REMOVAL	5
1067	DR-142	IR 90	763+79.22	764+00.00	LT/RT		28			3	2	203	27								15		3,5
1067	DR-143	IR 90	763+79.22	765+57.77	LT						1	169									N/A	NO PIPE REMOVAL	3,5
1067	DR-144	IR 90/RAMP W13	763+79.22	70+95.62	LT		57			2	4	30								668		SEE IR 90 PROFILES	2 AND 5
1067	DR-145	RAMP W14	68+75.42	69+57.26	RT						1	88									N/A	NO PIPE REMOVAL	3,5
1067	DR-146	RAMP W14	69+50.62	69+57.26	LT/RT		82			1											15		3,5
TOTALS CARRIED TO SHEET 346							2266	3067	9	31	52	2322	331	388	669	275	287	773	897	1043			

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
BER

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0350 TOTAL P.1587

CUY-90-6.69

MODEL: Sheet 3 PAPERSIZE: 34x22 (in.) DATE: 4/25/2025 TIME: 9:59:34 AM USER: jsima
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DRAINAGE ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	202 SPECIAL - PIPE CLEANOUT, 24" AND UNDER (FT)	202 SPECIAL - PIPE CLEANOUT, 27" TO 48" (FT)	611 12" CONDUIT, TYPE B (FT)	611 15" CONDUIT, TYPE B (FT)	611 15" CONDUIT, TYPE C (FT)	611 24" CONDUIT, TYPE B (FT)	611 36" CONDUIT, TYPE B (FT)	611 CONDUIT, BORED OR JACKED, 15" TYPE B (FT)	611 18" CONDUIT, TYPE B (FT)	611 CONDUIT, BORED OR JACKED, 24" TYPE B (FT)	611 INLET, NO. 2-A-8 (EACH)	611 INLET, NO. 3C, AS PER PLAN (EACH)	611 30" CONDUIT, TYPE B, ROCK CUT (FT)	611 CONDUIT, MISC.: 15" CONDUIT, TYPE B, ROCK CUT (FT)	611 CONDUIT, MISC.: 15" CONDUIT, TYPE C, ROCK CUT (FT)	611 CONDUIT, MISC.: 24" CONDUIT, TYPE B, ROCK CUT (FT)	611 CONDUIT, MISC.: 30" CONDUIT, TYPE C, ROCK CUT (FT)	611 CONDUIT, MISC.: 48" CONDUIT, TYPE B, ROCK CUT (FT)	611 CONDUIT, MISC.: 54" CONDUIT, TYPE B, ROCK CUT (FT)	611 CONDUIT, MISC.: 60" CONDUIT, TYPE B, ROCK CUT (FT)	611 66" CONDUIT, TYPE B, ROCK CUT (FT)	611 CONDUIT, MISC.: 66" CONDUIT, TYPE C, ROCK CUT (FT)	611 CATCH BASIN, NO. 3 (EACH)	611 CATCH BASIN, NO. 3A (EACH)	611 CATCH BASIN, NO. 5 (EACH)	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1 (EACH)	611 INLET, NO. 2-A-12 (EACH)	611 MANHOLE, NO. 3 (EACH)	611 MANHOLE, NO. 3, AS PER PLAN (EACH)	611 MANHOLE RECONSTRUCTED TO GRADE (EACH)	611 MANHOLE, MISC.: MH-3 MODIFIED (EACH)
OUTFALL B CONTINUED																																					
1048/1078	D38	IR 90	543+26.00	453+25.25	LT			6																					1								
1048/1078	D42	IR 90	543+26.94	543+26.00	LT			5																													
1048/1078	D24	IR 90	544+00.00	543+97.00	RT					10																				1							
1048/1078	D23	IR 90	543+97.00	542+89.00	RT					108																					1						
1049/1078	D20	IR 90	545+50.00	545+10.00	RT				45																					1							
1049/1078	D13	IR 90	547+43.00	547+65.00	RT				94																						1						
1049/1078	D12	IR 90	547+65.00	547+65.00	RT								49																			1					
1049/1079	D16	IR 90	546+85.00	547+09.00	RT				28			33																			1						
1049/1079	D10	IR 90	553+66.00	553+66.00	LT									84																	1						
1049/1079	D9	IR 90	553+66.00	553+75.00	LT										74																	1					
1049/1080	D8	IR 90	554+84.00	553+75.00	RT					108																					1						
1049/1080	D7	IR 90	553+75.00	551+80.86	RT						194																						1				
1049/1073	D6	IR 90	551+80.86		RT																														1		
OUTFALL C																																					
1051/1081	D124	IR 90	571+58.00	571+58.00	LT															8											1						
1051/1081	D123	IR 90	571+58.00	571+58.00	LT													70															1				
1051/1081	D122	IR 90	571+58.00	571+58.00	LT/RT																15											1					
1051/1082	D121	IR 90	571+50.00	571+58.00	RT															12											1						
1051/1081	D120	IR 90	571+58.00	571+58.00	RT													59											1								
1051/1081	D116	IR 90	573+57.00	574+00.00	RT																43													1			
1051/1081	D103	IR 90	573+94.00	574+92.46	RT																	99											1				
1051/1081	D102	IR 90	574+92.46	576+36.88	RT	145																															
1051/1082	D112	IR 90	573+57.00	573+94.00	LT													38											1								
1051/1082	D117	IR 90	573+57.00	573+57.00	LT/RT													15														1					
1051/1082	D105	IR 90	573+57.00	573+75.00	RT															20									1								
1051/1082	D104	IR 90	573+75.00	573+94.00	RT															19											1						
1051/1082	D111	IR 90	574+17.00	573+95.00	LT															25											1						
1051/1082	D110	IR 90	573+95.00	574+00.00	LT													68											1								
1051/1082	D108	IR 90	574+00.00	573+94.00	RT												63																1				
1051/1082	D109	IR 90	574+00.00	573+94.00	LT/RT																17											1					
1051/1082	D107	IR 90	573+94.00	573+75.00	RT																	10							1								
OUTFALL D																																					
1052/1083	D128	IR 90	580+95.00	582+86.41	LT		190																														1
1052/1083	D130	IR 90	582+86.41	583+51.00	LT																						69						1				
1052/1083	D140	IR 90	583+51.00	584+54.00	LT																						105						1				
1052/1094	D134	IR 90	583+24.00	583+29.00	LT												1				66		1														
1052/1084	D145	IR 90	585+25.00	587+40.00	RT																						214								1		
1052/1095	D150	IR 90	590+15.00	590+57.00	LT													102													1						
1052/1084	D156	IR 90	590+00.00	592+55.00	RT																						254						1				
1053/1084	D158	IR 90	592+55.00	595+10.00	RT																						254						1				
1053/1085	D160	IR 90	595+10.00	598+05.00	RT																						295						1				
1053/1086	D161	IR 90	598+05.00	600+90.00	RT																						285						1				
1053/1096	D165	IR 90	600+90.00	600+90.00	LT												1										1										
1053/1086	D176A	IR 90	603+02.00	603+75.00	RT																						73						1				
1053/1086	D185	IR 90	603+75.00	606+30.00	RT																						255						1				
1054/1087	D186	IR 90	606+30.00	609+58.00	RT																			328									1				
1054/1087	D188	IR 90	609+58.00	611+75.00	RT																			218											1		
1054/1087	D202B	IR 90	611+75.00	614+00.00	RT																			226									1				
1054/1088	D196	IR 90	615+50.00	616+36.00	RT																			82											1		
1054/1088	D203A	IR 90	616+36.00	617+25.00	RT																					89							1				
1054/1088	D212	IR 90	617+25.00	618+13.00	RT																					291									1		
1055/1088	D218A	IR 90	618+13.00	620+00.00	RT																			187											1		
1055/1089	D244	IR 90	621+56.00	625+60.00	RT																			404									1				
1055/1089	D245	IR 90	625+60.00	629+58.00	RT																			398									1				
1056/1090	D276	IR 90	629+58.00	34+74.38	RT																			517									1				
1056/1090	D280	IR 90 EB	34+74.38	39+25.00	LT																			452									1				
TOTALS CARRIED TO SHEETS 346 & 347						145	190	11	167	226	194	33	49	84	74	1	1	63	422	84	135	109	1959	380	854	1631	174	6	2	10	5	1	18	6	1	1	

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
BER

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0352 TOTAL P.1587

CUY-90-6.69

MODEL: Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 4/23/2025 TIME: 10:51:02 PM USER: jsima
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DRAINAGE ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	611 15" CONDUIT, TYPE C FT	611 15" CONDUIT, TYPE F FT	611 18" CONDUIT, TYPE C FT	611 24" CONDUIT, TYPE C FT	611 30" CONDUIT, TYPE C FT	611 54" CONDUIT, TYPE C FT	611 CONDUIT, BORED OR JACKED, 15" TYPE B FT	611 15" CONDUIT, TYPE B FT	611 CONDUIT, MISC.: 15" CONDUIT, TYPE B, ROCK CUT FT	611 CONDUIT, MISC.: 15" CONDUIT, TYPE C, ROCK CUT FT	611 CONDUIT, MISC.: 18" CONDUIT, TYPE B, ROCK CUT FT	611 CONDUIT, MISC.: 18" CONDUIT, TYPE C, ROCK CUT FT	611 CONDUIT, MISC.: 30" CONDUIT, TYPE C, ROCK CUT FT	611 CONDUIT, MISC.: 36" CONDUIT, TYPE C, ROCK CUT FT	611 CONDUIT, MISC.: 42" CONDUIT, TYPE B, ROCK CUT FT	611 CONDUIT, MISC.: 42" CONDUIT, TYPE C, ROCK CUT FT	611 CONDUIT, MISC.: 54" CONDUIT, TYPE C, ROCK CUT FT	611 CATCH BASIN, NO. 3 EACH	611 CATCH BASIN, NO. 3A EACH	611 CATCH BASIN, NO. 5 EACH	611 CATCH BASIN, NO. 5, AS PER PLAN EACH	611 CATCH BASIN, NO. 6 EACH	611 INLET, NO. 3D EACH	611 INLET, NO. 2-A-6 EACH	611 INLET, NO. 2-A-8 EACH	611 INLET, NO. 2-A-10 EACH	611 INLET, NO. 2-A-12 EACH	611 MANHOLE, NO. 3 EACH	611 MANHOLE, NO. 3 AS PER PLAN (2) EACH
		OUTFALL D CONTINUED																																		
1058/1114	D343	RAMP W2A	61+52.00	61+67.00	RT										19										1											
1058/1114	D342	RAMP W2A	62+08.00	61+67.00	RT									37																	1					
1058/1114	D339	RAMP W2A	60+77.00	60+62.00	LT										28															1						
		OUTFALL E																																		
1059/1115	D400	IR 90 EB	65+09.00	65+00.00	RT											136				1					1											
1059/1115	D399	IR 90 EB	65+00.00	66+63.00	RT											163																	1			
1059/1115	D398	IR 90 EB	66+63.00	66+60.68	RT												43																1			
1059/1116	D374	IR 90 EB	75+15.00	76+56.00	LT														148															1		
1059/1116	D370	IR 90 EB	76+56.00	678+15.00	RT														184															1		
1059/1117	D358	IR 90	678+15.00	678+41.54	LT															66																1
1059/1118	D384	IR 90 EB	69+05.00	71+60.00	RT									258																			1			
1059/1118	D383	IR 90 EB	71+60.00	71+29.97	RT										70								1													
1059/1118	D376	IR 90 EB	74+59.99	75+14.99	LT									55									1													
1059/1118	D371	IR 90 EB	76+59.99	76+55.99	LT										6																		1			
1059/1119	D368	IR 90	674+75.15	676+74.22	RT										192									1												
1059/1119	D367	IR 90	676+74.22	678+15.00	RT										140																1					
1059/1119	D366	IR 90	678+15.00	678+35.00	RT										18																1					
1059/1119	D361	IR 90	674+82.31	676+50.00	RT												168								1											
1060/1119	D360	IR 90	676+50.00	678+15.00	RT												165																	1		
		OUTFALL F																																		
1061/1120	D438	IR 90	694+90.00	694+75.00	LT								91												1											
1061/1120	D437	IR 90	694+75.00	695+00.00	LT		73																					1								
1061/1120	D436	IR 90	695+00.00	695+61.50	LT			6																		1										
		OUTFALL M																																		
1061/1121	D937	IR 90	697+75.00	697+75.00	LT								80													1										
1061/1121	D936	IR 90	697+75.00	698+75.00	LT	100																												1		
1061/1121	D934	IR 90	698+75.00	701+10.00	LT	233																												1		
1062/1121	D930	IR 90	701+10.00	703+95.00	LT	282																												1		
1062/1121	D926	IR 90	703+95.00	706+53.00	LT				256																									1		
1062/1121	D923	IR 90	706+53.00	709+28.00	LT				274																									1		
1062/1122	D920	IR 90	709+28.00	711+40.00	LT				212																									1		
1062/1122	D919	IR 90	711+40.00	713+64.00	LT				224																									1		
1063/1122	D916	IR 90	713+64.00	716+08.00	LT					244																								1		
1063/1122	D914	IR 90	716+08.00	718+50.00	LT													242																1		
1063/1123	D911	IR 90	718+50.00	720+00.00	LT													150																1		
1063/1123	D909	IR 90	720+00.00	722+44.00	LT													240																1		
1063/1123	D902	IR 90	722+44.00	724+90.00	LT													250																1		
1064/1123	D900	IR 90	724+90.00	727+73.00	LT													283																1		
1064/1124	D875	IR 90	727+73.00	730+34.00	LT																261													1		
1064/1124	D870	IR 90	730+34.00	732+39.00	LT																205													1		
1064/1124	D856	IR 90	735+76.00	738+65.00	LT																	289												1		
1065/1125	D855	IR 90	738+65.00	741+56.00	LT						291																							1		
1065/1126	D838	IR 90	741+56.00	745+05.00	LT						349																							1		
1064/1124	D864	IR 90	734+50.00	735+76.00																	126													1		
TOTALS CARRIED TO SHEETS 346 & 347						615	73	6	966	244	640		171	350	473	299	376	1165	332	67	592	289	2	1	4	1	1	1	1	2	1	4	22	1	

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
BER

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0356 TOTAL P.1587

CUY-90-6.69

MODEL: Sheet 6 PAPERSIZE: 34x22 (in.) DATE: 4/23/2025 TIME: 10:13:23 PM USER: jsima
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DRAINAGE ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	611 CONDUIT, MISC.:12" CONDUIT, TYPE B, ROCK CUT (EACH)	611 CONDUIT, MISC.:12" CONDUIT, TYPE C, ROCK CUT (EACH)	611 CONDUIT, MISC.:18" TYPE B, ROCK CUT (EACH)	611 CONDUIT, BORED OR JACKED, AS PER PLAN (2), 24" TYPE B (FT)	611 CONDUIT, BORED OR JACKED, AS PER PLAN (2), 30" TYPE C (FT)	611 CONDUIT, BORED OR JACKED, AS PER PLAN (2), 36" TYPE B (FT)	611 CONDUIT, BORED OR JACKED, AS PER PLAN (2), 42" TYPE B (FT)	611 CONDUIT, BORED OR JACKED, AS PER PLAN (2), 42" TYPE C (FT)	611 CONDUIT, BORED OR JACKED, AS PER PLAN (2), 48" TYPE B (FT)	611 CONDUIT, BORED OR JACKED, AS PER PLAN (2), 48" TYPE C (FT)	611 CONDUIT, BORED OR JACKED, AS PER PLAN (2), 54" TYPE B (FT)	611 CONDUIT, BORED OR JACKED, AS PER PLAN (2), 60" TYPE B (FT)	611 CONDUIT, BORED OR JACKED, AS PER PLAN (2), 66" TYPE B (FT)	611 INLET, NO. 2-A-6 (EACH)	611 INLET, NO. 2-A-14 (EACH)	611 INLET, NO. 2-A-16 (EACH)	611 MANHOLE, NO. 3 (EACH)	611 MANHOLE, NO. 3, AS PER PLAN (EACH)
OUTFALL C																								
1051/1081	D118	IR 90	571+58.00	573+57.00	RT				199															1
OUTFALL D																								
1052/1084	D141	IR 90	584+54.00	585+25.00	LT/RT													142						1
1052/1084	D141A	IR 90	585+25.00	585+72.00	LT/RT													90					1	
1052/1084	D148	IR 90	587+40.00	590+00.00	RT													259						1
1053/1086	D168	IR 90	600+90.00	603+02.00	RT													212					1	
1054/1087	202A	IR 90	614+00.00	615+50.00	RT												155						1	
1055/1088	D219	IR 90	620+00.00	621+56.00	RT									156										1
1056/1091	D300	IR 90 WB	42+77.00	44+58.00	RT										181								1	
1057/1092	D316	IR 90 WB	51+06.00	53+62.00	RT					256													1	
OUTFALL E																								
1059/1116	D365	IR 90	678+15.00	678+15.00	RT						92												1	
1059/1117	D359	IR 90	678+15.00	678+15.00	RT							143											1	
OUTFALL M																								
1064/1124	D865	IR 90	732+39.00	734+50.00	LT								211										1	
1067/1128	D775	IR 90	768+00.00	768+52.00	LT											147							1	
TOTALS CARRIED TO SHEETS 346 & 347									199	256	92	143	211	156	181	147	155	703					9	4

DESIGN AGENCY: AMERICAN STRUCTUREPOINT

DESIGNER: BER

REVIEWER: VDK 08/09/23

PROJECT ID: 76779

SHEET: P.0359A TOTAL: P.1587

CUY-90-6.69

MODEL: Sheet 9A PAPERSIZE: 34x22 (in.) DATE: 4/25/2025 TIME: 9:27:05 AM USER: kmorton
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PROPOSED WORK

REFER TO THE PROJECT TITLE SHEET AND SCHEMATIC PLANS FOR GENERAL INFORMATION AND LIMITS OF WORK.

EXISTING LIGHTING ITEMS, SIGNS, CONDUIT, CABLE AND POWER CENTERS

THE LOCATIONS OF EXISTING LIGHTING ITEMS, SIGNS, CONDUIT, CABLE, AND POWER CENTERS SHOWN ON THE PLANS AND DESCRIBED BY NOTATION HAVE BEEN OBTAINED BY FIELD CHECKS AND INFORMATION FROM EXISTING LIGHTING PLANS PROVIDED BY ODOT. IT IS BELIEVED THAT THE INFORMATION IS ESSENTIALLY CORRECT; HOWEVER, ODOT CANNOT GUARANTEE THE ACCURACY OR COMPLETENESS. NOT ALL EXISTING LIGHTING EQUIPMENT WITHIN THE PROJECT LIMITS IS SHOWN. THE CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS.

CONFLICTS WITH EXISTING UTILITIES

PRIOR TO INSTALLING ANY OF THE PROPOSED LIGHTING EQUIPMENT, PULLBOXES, CONDUIT, AND CONDUIT DUCTBANKS, THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO TYPE AND LOCATION OF ALL UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID ANY DAMAGE. ALL REPAIRS TO ANY DAMAGE TO EXISTING UTILITIES CAUSED BY THE FAILURE TO COORDINATE WITH THE RESPECTIVE UTILITY COMPANIES AND EXCAVATING APPROPRIATE UTILITY TEST HOLES, WILL BE PAID FOR BY THE CONTRACTOR.

THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UNDERGROUND PIPE LINES, DRAINAGE, ELECTRICAL CONDUIT AND DUCT BANKS, WATERLINES, COMMUNICATION DUCTS, AND OTHER STRUCTURES BY CONTACTING OWNERS OF UNDERGROUND UTILITIES AND BY EXCAVATING APPROPRIATE UTILITY TEST HOLES. REFER TO PROJECT GENERAL NOTES FOR A LISTING OF KNOWN UTILITY COMPANIES WITH SERVICES IN THE PROJECT AREA.

THE CONTRACTOR SHALL COORDINATE THE LIGHTING PLANS WITH THE ROADWAY CONSTRUCTION PLANS AND CROSS-SECTIONS. ALL LIGHTING EQUIPMENT SYMBOLS SHOWN ON THE LIGHTING PLANS ARE NOT DRAWN TO SCALE, ARE SHOWN DIAGRAMMATICALLY AND MAY NOT BE IN THE EXACT LOCATION REQUIRED. THE CONTRACTOR SHALL COORDINATE LOCATIONS AND VARIOUS NOTES ON EACH LIGHTING PLAN AND DETAIL SHEET.

THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT ENGINEER AND ODOT IN ADVANCE OF ANY WORK, IF THE LOCATION OF ANY LIGHT TOWER OR LIGHT POLE NEEDS TO BE ADJUSTED GREATER THAN TWO FEET FROM THEIR INTENDED LOCATION.

THE CONTRACTOR SHALL MAINTAIN PROPER CLEARANCE FROM ALL OVERHEAD AND UNDERGROUND UTILITIES AND SHALL CONTACT EACH UTILITY FOR SPECIFIC REQUIREMENTS.

FIELD CONDITION REQUIREMENTS

UNLESS OTHERWISE INDICATED, ALL EXISTING CONDUIT, CABLE, AND DUCT CABLE WILL BE ABANDONED IN PLACE. TRENCHING FOR NEW CONDUIT / CABLE RUNS IN AREAS WHERE EXISTING CIRCUITS HAVE BEEN ABANDONED, MAY RESULT IN DISTURBING THE EXISTING CONDUIT. CONDUIT MAY REMAIN IN PLACE UNLESS IT BECOMES AN OBSTACLE TO THE INSTALLATION OF THE NEW CONDUITS / DUCT CABLE. REMOVAL OF ANY CONDUIT WILL BE INCIDENTAL TO THE APPROPRIATE PAY ITEM 625, "TRENCH".

EXISTING LIGHTING CIRCUITS

PRIOR TO BEGINNING ANY WORK ON THE REMOVAL OR MODIFICATION ON ANY OF THE EXISTING LIGHTING SYSTEM CIRCUITRY, FIELD VERIFY ALL EXISTING LIGHTING CIRCUITRY. CONTACT ODOT FOR ASSISTANCE IN THE COORDINATION OF THE EXISTING LIGHTING CIRCUITRY AND TO CONFIRM ALL REMOVAL OR MODIFICATION WORK TO BE PERFORMED ON THE EXISTING LIGHTING SYSTEM.

THE CONTRACTOR SHALL FIELD VERIFY THE CONDITION OF EXISTING LIGHTING SYSTEM CIRCUITRY TO REMAIN AND REPLACE ANY COMPONENTS OF THE EXISTING LIGHTING CIRCUITRY THAT IS IN POOR CONDITION TO COMPLETE THE MODIFICATIONS PROPOSED IN THE PLANS. THE FOLLOWNG ESTIMATED CONTINGENCY QUANTITIES HAVE BEEN CARRIED TO THE LIGHTING GENERAL SUMMARY FOR THE WORK DESCRIBED ABOVE:

ITEM 625 - 1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	400 FT
ITEM 625 - PULL BOX, 725.08, 18"	11 EACH

REMOVAL OF LIGHTING ITEMS

EXISTING LIGHTING FOUNDATIONS, PULL BOXES, AND MISCELLANEOUS ITEMS NO LONGER IN SERVICE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, EXCEPT FOR EXISTING DUCTS AND CONDUITS, WHICH CAN BE ABANDONED IN PLACE. PRIOR TO REMOVAL, THE CONTRACTOR SHALL CONTACT ODOT TO CONFIRM REMOVAL. EXISTING LIGHT TOWERS AND LIGHT POLES, LUMINAIRES, AND CONDUCTORS REMOVED ON THE PROJECT SHALL BE RETURNED TO ODOT. THE CONTRACTOR SHALL NOTIFY ODOT AND STORE THE MATERIALS ON SITE, SUITABLY PROTECTED, AT A DESIGNATED LOCATION FOR PICK UP BY ODOT STAFF WITHIN 30 WORKDAYS OF NOTIFICATION BY THE CONTRACTOR. THE CONTRACTOR MAY DISPOSE OF MATERIALS NOT PICKED UP WITHIN THE 30 WORKDAY TIMEFRAME. ALL OTHER EQUIPMENT AND MATERIALS NO LONGER IN SERVICE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

ITEM 625 - PULL BOX CLEANED

THIS ITEM OF WORK SHALL CONSIST OF CLEANING AN EXISTING PULL BOX BY REMOVING ANY EXISTING CABLES NOT BEING RECONNECTED, AND DEBRIS SO THAT NEW CABLES CAN BE INSTALLED. ANY UNUSED OPENINGS SHALL BE CLOSED. DISTURBED AREAS NEAR THE PULL BOX SHALL BE CLEARED OF WEEDS OR DEBRIS AND SHALL BE FULLY RESTORED. MATERIAL REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF OF THE PROJECT SITE.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 625, "PULL BOX CLEANED" FOR EACH PULL BOX CLEANED WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625 - CONDUIT CLEANED AND CABLES REMOVED

THIS ITEM SHALL CONSIST OF CLEANING AN EXISTING CONDUIT BY REMOVING EXISTING CABLES, MUD, AND DEBRIS SO THAT NEW CABLE CAN BE INSTALLED. INCIDENTAL TO THE CLEANING IS THE INSTALLATION OF BUSHINGS AND/OR COUPLINGS ON THE ENDS OF EXISTING CONDUIT AS REQUIRED. MATERIALS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR FOR PROPER DISPOSAL OFF OF THE PROJECT SITE. DISTURBED AREAS SHALL BE PROPERLY RESTORED.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 625, "CONDUIT CLEANED AND CABLES REMOVED" PER FOOT OF CONDUIT CLEANED WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625 - LIGHT POLE ANCHOR BOLTS ON STRUCTURES

WHEN A LIGHT POLE IS MOUNTED ON A PILASTER ON A BRIDGE PARAPET OR ON A RETAINING WALL, THE REQUIRED ANCHOR BOLTS MAY DIFFER IN LENGTH AND/OR SHAPE FROM THOSE REQUIRED WHEN THE POLE IS MOUNTED ON A CAST-IN-PLACE DRILLED SHAFT FOUNDATION. THE COST DIFFERENTIAL FOR FURNISHING SUCH BOLTS IS INCLUDED HEREIN.

IN ADDITION, THERE IS NO FOUNDATION CONSTRUCTION ITEM IN WHICH TO INCLUDE THE SETTING OF THE ANCHOR BOLTS. THUS, THE SETTING OF THE ANCHOR BOLTS INTO THE PILASTER IS ALSO PART OF THIS WORK.

PAYMENT WILL BE MADE AT EACH SUCH POLE LOCATION AT THE UNIT PRICE BID FOR EACH CMS ITEM 625, "LIGHT POLE ANCHOR BOLTS ON STRUCTURES" AND SHALL BE FULL COMPENSATION FOR FURNISHING AND PLACING THE SET OF ANCHOR BOLTS REQUIRED.

CONDUIT EXPANSION AND DEFLECTION

EXPANSION FITTINGS SHALL BE OZ TYPE AX, CROUSE HINDS TYPE XJG, OR EQUAL APPROVED BY THE ENGINEER. EACH EXPANSION FITTING SHALL PROVIDE EITHER 4 OR 8 INCHES TOTAL MOVEMENT AS SPECIFIED BY THE PLAN DETAILS AND SHALL HAVE AN EXTERNAL COPPER BONDING JUMPER, UNLESS SPECIFIED OTHERWISE BY THE PLAN DETAILS.

DEFLECTION COUPLINGS SHALL BE OZ TYPE DX, CROUSE HINDS TYPE XD, OR EQUAL APPROVED BY THE ENGINEER. EACH DEFLECTION COUPLING SHALL HAVE AN EXTERNAL COPPER BONDING JUMPER, UNLESS SPECIFIED OTHERWISE BY THE PLAN DETAILS. MINIMUM DEFLECTION CAPABILITY: 25 DEGREES.

EXPANSION AND DEFLECTION FITTINGS FULLY OR PARTIALLY EMBEDDED IN CONCRETE, SOIL, OR SIMILAR MATERIAL SHALL BE COMPLETELY WRAPPED IN A NEOPRENE SLEEVE OR SHEET OF 1/2-INCH MINIMUM THICKNESS.

SECURE NEOPRENE WRAP WITH TIE-WRAPS PRIOR TO EMBEDMENT OF THE FITTING.

ITEM 625 - 1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES

IN ADDITION TO THE QUANTITY CALCULATED IN THE LIGHTING SUBSUMMARY SHEETS, THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN CARRIED TO THE LIGHTING GENERAL SUMMARY FOR THIS ITEM:

ITEM 625 - 1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	1100 FT

THIS QUANTITY IS TO PROVIDE EXCESS DUCT CABLE TO ACCOUNT FOR CABLES BEING DRAWN INTO THE DUCT AT THE START OF EACH SPOOL OF DUCT CABLE.

ITEM 625 - SERVICE TO UNDERPASS LIGHTING, AS PER PLAN

ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO REPLACE THE EXISTING THE UNDERPASS LIGHTING MOUNTED ON THE FORWARD ABUTMENT OF BRIDGE CUY-90-09.910 SHALL BE INCLUDED AS PART OF ITEM 625 - SERVICE TO UNDERPASS LIGHTING, AS PER PLAN. THIS WORK SHALL BEGIN AFTER THE COMPLETION OF THE SEMI-INTEGRAL ABUTMENT WORK. THE FOLLOWING QUANTITIES ARE CARRIED TO THE LIGHTING GENERAL SUMMARY:

ITEM 625 - NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	600 FT
ITEM 625 - CONDUIT, 1-1/2", 725.04	200 FT
ITEM 625 - LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN, CPP FIXTURE	4 EACH
ITEM 625 - JUNCTION BOX	4 EACH
ITEM 625 - SERVICE TO UNDERPASS LIGHTING, AS PER PLAN	1 EACH

ITEM 625 - POWER SERVICE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF THE SPECIFICATIONS, THE FOLLOWING IS ADDED.

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

POWER COMPANY	FIRST ENERGY (CEI)
ADDRESS	6896 MILLER ROAD BRECKSVILLE, OH 44141
PHONE #	330-384-5970
CONTACT NAME	AUREL MIU
POWER COMPANY	CLEVELAND PUBLIC POWER (CPP)
ADDRESS	1300 LAKESIDE AVENUE CLEVELAND, OH 44114
PHONE # (1)	216-563-7212 (EXT 76115)
CONTACT NAME (1)	CHRIS HIRZEL
PHONE # (2)	216-563-7239 (EXT 76123)
CONTACT NAME (2)	PATRICK YORK

THE AGENCY SUPPLYING POWER FOR EACH CONTROL CENTER WITHIN THE PROJECT LIMITS IS IDENTIFIED ON THE LIGHTING PLAN SHEETS.

THIS ITEM SHALL INCLUDE NEW POWER SERVICES ESTABLISHED BY THIS PROJECT AS WELL AS REASSIGNMENT OF EXISTING SERVICE DUE TO WORK PERFORMED BY THIS PROJECT. SUBMIT SHOP DRAWINGS (CATALOG CUTS) TO THE ENGINEER AND THE AGENCY SUPPLYING POWER FOR THEIR APPROVAL.

THE CONTRACTOR SHALL ESTABLISH OR TRANSFER ALL NEW OR EXISTING POWER SERVICES TO THEIR NAME PRIOR TO BEGINNING WORK. THE ENGINEER SHALL ENSURE THAT EACH POWER SERVICE ELECTRICAL ENERGY ACCOUNT IS IN THE NAME OF AND THAT THE BILLING ADDRESS IS TO THE MAINTAINING AGENCY NOTED IN THE PLANS UPON FINAL ACCEPTANCE OF THE WORK. THIS SHALL BE DONE NOT ONLY FOR EACH NEW POWER SERVICE ESTABLISHED BY THIS PROJECT BUT ALSO FOR EACH EXISTING POWER SERVICE, SINCE THERE MAY BE A REASSIGNMENT OF THE RESPONSIBILITY FOR AN EXISTING SERVICE AS A RESULT OF THE WORK PERFORMED BY THIS PROJECT.

ONCE THE ACCOUNTS HAVE BEEN TRANSFERRED AND THE CONTRACTOR HAS RECEIVED THE FINAL INVOICE, THE CONTRACTOR SHALL SUBMIT A SUMMARY AND ALL COPIES OF INVOICES PAID FOR EACH ELECTRICAL SERVICE ACCOUNT, INCLUDING ALL MAKE-READY WORK TO THE ENGINEER FOR REVIEW AND REIMBURSEMENT IN ACCORDANCE WITH C&MS 625.15.

R3

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH CMS ITEM 625, "POWER SERVICE, AS PER PLAN" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

PADLOCKS AND KEYS

PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNAN 660A, AND SHALL BE KEYED IN ACCORDANCE WITH C&MS 631.06. PAYMENT SHALL BE INCLUDED IN THE BID FOR THE ITEM(S) BEING LOCKED.

R9

ITEM 625 - MEDIAN LIGHT POLE FOUNDATION, 10' DEEP, AS PER PLAN

SLIP FORMING OF MEDIAN BARRIER FOR MEDIAN LIGHT POLE LIMITS IS NOT PERMITTED.

WHERE A LIGHT POLE FOUNDATION IS PROPOSED WITHIN THE LIMITS OF A CONCRETE BARRIER END ANCHORAGE, THE EIGHT FEET OF CONCRETE BARRIER SHALL BE CONSIDERED INCIDENTAL TO ITEM 622 CONCRETE BARRIER, END ANCHORAGE, AS PER SCD HL-20.13. ALL OTHER LABOR, MATERIALS, AND INCIDENTALS DEFINED IN ODOT CMS 625 AND SCD HL-20.13 SHALL STILL APPLY. THIS NOTE IS APPLICABLE TO THE LIGHT POLES LISTED BELOW:

HI-1-16	HI-1-15	HI-1-04
HI-2-09	HI-2-10	LA-1-06
AL-2-11	AL-2-07	

LIGHTING GENERAL NOTES

DESIGN AGENCY

Michael Baker INTERNATIONAL

DESIGNER JLD

REVIEWER SM 08/09/23

PROJECT ID 76779

SHEET P.1309 TOTAL P.1587

CUY-90-6.69

MODEL: Sheet-1 PAPERSIZE: 34x22 (in.) DATE: 4/23/2025 TIME: 1:39:49 PM USER: Jennifer.DoVale
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ESTIMATED QUANTITIES

PARTICIPATION 02/IMS/13	PARTICIPATION 03/IMS/13	ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION	REAR ABUTMENT	PIERS	FORWARD ABUTMENT	SUPER.	GENERAL	SHEET REF.
	LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN					LS	2
	427	202	22900	427	SY	APPROACH SLAB REMOVED					427	
	11995	202	23500	11995	SY	WEARING COURSE REMOVED					11995	
	174	503	21100	174	CY	UNCLASSIFIED EXCAVATION	174					
	82313	509	10001	82313	LB	EPOXY COATED STEEL REINFORCEMENT, AS PER PLAN	31761		31761		18792	2
	800	509	20001	800	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN				800		
	192	510	10000	192	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT					192	
	58	511	34412	58	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE				58		
	83	511	34450	83	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)	11		11	37	24	
	24	511	44112	24	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT NOT INCLUDING FOOTING	12		12			
	218	511	53012	218	CY	CLASS QC2 CONCRETE, MISC.: ABUTMENT SLABS WITH QA/QC	109		109			1
	13311	512	10050	13311	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)				12239	1072	
	4036	512	10100	4036	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	189		189	3510	149	
	927	512	10300	927	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	7		7	895	18	
	10701	513	10200	10701	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF				10701		
	15611	513	21501	15611	LB	REPLACEMENT OF DETERIORATED END CROSSFRAMES, AS PER PLAN				15611		2, 16
	LS	513	95020	LS		STRUCTURAL STEEL, MISC.: GIRDER SPLICE REPAIR				LS		16
	566	514	00050	566	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL				566		
	566	514	00056	566	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT				566		
	3481	514	00060	3481	SF	FIELD PAINTING OF STRUCTURAL STEEL, INTERMEDIATE COAT				3481		
	3481	514	00066	3481	SF	FIELD PAINTING OF STRUCTURAL STEEL, FINISH COAT				3481		
	LS	514	27800	LS		FIELD PAINTING, MISC.: COATING SYSTEM REPAIR				LS		3
	288	516	11210	288	FT	STRUCTURAL STEEL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL				288		
	87	516	13600	87	SF	1" PREFORMED EXPANSION JOINT FILLER					87	
	72	SPECIAL	51614010	72	FT	POURED POLYURETHANE JOINT SEAL				72		
	72	516	14600	72	FT	STRUCTURAL JOINT OR JOINT SEALER, MISC: 5"X5" PRECOMPRESSED BITUMEN IMPREGNATED FOAM JOINT SEAL				72		
	4	516	46201	4	EACH	BEARING DEVICE, ROCKER, AS PER PLAN	2		2			15
	LS	516	47000	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE				LS		
	8	518	12500	8	EACH	SCUPPER, MISC: PLUG AND FILL EXISTING SCUPPER					8	3
	39	518	21200	39	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	39					
	144	518	40000	144	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	144					
	92	518	40010	92	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	92					
	23	519	11101	23	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	16		7		SF	
	623	526	15010	623	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=13")					623	
	280	526	90010	280	FT	TYPE A INSTALLATION					280	
	2	SPECIAL	53000400	2	EACH	STRUCTURES, ACCESS DOOR ASSEMBLY					2	
	61	601	20010	61	CY	CRUSHED AGGREGATE SLOPE PROTECTION	61					
	126	607	35001	126	FT	FENCE REMOVED AND REBUILT, AS PER PLAN				126		3
	92	611	96600	92	FT	CONDUIT, BORED OR JACKED, 6", 707.45	92					
	4	611	99710	4	EACH	PRECAST REINFORCED CONCRETE OUTLET	4					
	60	613	41200	60	CY	LOW STRENGTH MORTAR BACKFILL	60					
	104	838	20700	104	CY	GABIONS	104					
	832	844	10001	832	SF	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION, AS PER PLAN	468		364			3
	12239	848	10201	12239	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION 1 ½" INCH THICK, AS PER PLAN				12239		3
	12239	848	20000	12239	SY	SURFACE PREPARATION USING HYDRODEMOLITION				12239		
	123	848	30200	123	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY				123		
	241	848	50000	241	SY	HAND CHIPPING				241		
	LS	848	50100	LS		TEST SLAB					LS	
	12239	848	50320	12239	SY	EXISTING CONCRETE OVERLAY REMOVED,1 ¼" NOMINAL THICKNESS				12239		
	100	848	50340	100	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY				100		

R4 R9 R7 R9 R7 R3 R7

CALCULATED BY: SSW DATE: 04/05/23
CHECKED BY: CDC DATE: 04/05/23

ESTIMATED QUANTITIES
BRIDGE NO.: CUY-00090-07.580
IR 90 OVER ROCKY RIVER VALLEY

SFN 1808567
DESIGN AGENCY
Michael Baker INTERNATIONAL

DESIGNER	CHECKER
SSW	MKB

REVIEWER CDC 04/07/23
PROJECT ID 76779
SUBSET 2 TOTAL 28
SHEET P.1361 TOTAL P.1587

CUY-90-06.690

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 4/23/2025 TIME: 4:51:23 PM USER: Jennifer.DoVale
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