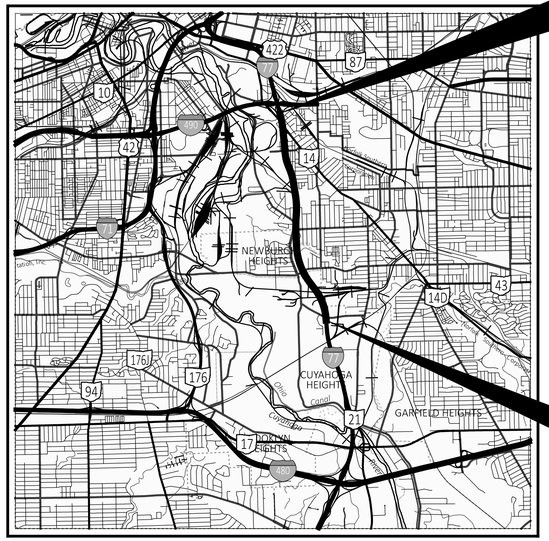
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

CUY-77-11.41 PART 1

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

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



LOCATION MAP

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

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

DESIGN DESIGNATION

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

DESIGN EXCEPTIONS

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

ADA DESIGN WAIVERS

DESIGN FEATURE	*APPROVAL*	*SHEET NUMBER*
CR-1	*06/25/2026*	*P.699*

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

PLAN PREPARED BY:

TRC
781 Science Boulevard, Suite 200
Gahanna, OH 43230

INDEX OF SHEETS:

TITLE SHEET	*P.1-P.2*
SCHEMATIC PLAN	*P.3-P.13*
HORIZONTAL CONTROL POINTS	*P.14-P.15*
TYPICAL SECTIONS	*P.16-P.24*
GENERAL NOTES	*P.25, P.25A, P.26-P.28*
MAINTENANCE OF TRAFFIC	*P.29-P.274*
GENERAL SUMMARY	*P.275-P.284*
ROADWAY SUBSUMMARY	*P.285-P.288*
EARTHWORK SUBSUMMARY	*P.289-P.290*
PAVEMENT SUBSUMMARY	*P.291-P.296*
SITE PLANS	*P.297-P.303*
PLAN AND PROFILE	
I.R. 77	*P.304-P.320*
RAMPS	*P.321-P.348*
MUP	*P.349-P.360*
CROSS-SECTIONS	
I.R. 77	*P.361-P.507*
RAMPS	*P.508-P.584*
MUP	*P.585-P.651*
SUPERELEVATION TABLE	*P.652-P.664*
INTERCHANGE DETAILS	*P.665-P.686*
INTERSECTION DETAILS	*P.687-P.689*
PAVEMENT DETAILS	*P.690-P.698*
CURB RAMP DETAILS	*P.699-P.708*
REMOVAL DETAILS	*P.709*
PLAN INSERT SHEET	*P.710*
DRAINAGE DETAILS	*P.711-P.792*
STORM SEWER PROFILES	*P.793-P.832*
RETAINING WALLS	
RETAINING WALL 1A	*P.833-P.848*
RETAINING WALL 1B	*P.849-P.858*
RETAINING WALL 1C	*P.859-P.872*
RETAINING WALL 1D	*P.873-P.898*
RETAINING WALL 2A	*P.899-P.904*
RETAINING WALL 2	*P.905-P.918*
RETAINING WALL 3	*P.919-P.932*
RETAINING WALL 4	*P.933-P.942*
RETAINING WALL 5A	*P.943-P.965*
RETAINING WALL 5B	*P.966-P.978*
RETAINING WALL 5C	*P.979-P.982*
RETAINING WALL 6	*P.983-P.997*
RETAINING WALL 7	*P.998-P.1005*
MOMENT SLABS	*P.1006-P.1013, P.1013A-1013B, P.1014*
SANITARY SEWER	*P.1015-P.1016*
WATER WORK	*P.1017-P.1032*
TRAFFIC CONTROL	*P.1033-P.1096*
ITS PLAN	*P.1097-P.1115*
LIGHTING	*P.1116-P.1139*
STRUCTURES (OVER 20 FOOT SPAN)	
CUY-77-1322	*P.1140-P.1164*
CUY-77-1297	*P.1165*
CUY-77-1331	*P.1166-P.1177*
FENCING PLAN	*P.1178-P.1189*
GEOTECHNICAL PROFILE - ROADWAY	*P.1190-P.1274*

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

FEDERAL PROJECT NUMBER

E191575

RAILROAD INVOLVEMENT

N/A

PROJECT DESCRIPTION

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

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	*70.41 ACRES*
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	*1.33 ACRES*
NOTICE OF INTENT EARTH DISTURBED AREA:	*71.74 ACRES*

LIMITED ACCESS

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

2023 SPECIFICATIONS

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

MOT ENDORSEMENT

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT AS NOTED ON SHEETS 29-30, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH IN THE PLANS AND ESTIMATES.

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

Pamela Boratyn
Director, Department of Transportation

TITLE SHEET

DESIGN AGENCY: TRC
DESIGNER: EAP
REVIEWER: KKP 03/14/22
PROJECT ID: 105743
SHEET: P.1 TOTAL: P.1274

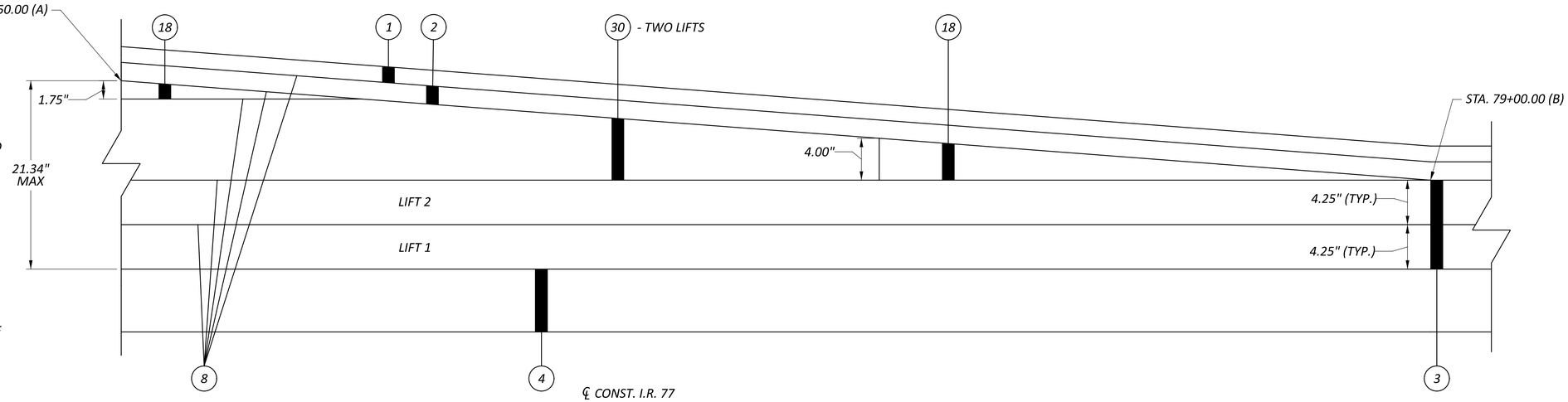
CUY-77-11.41 - PART 1

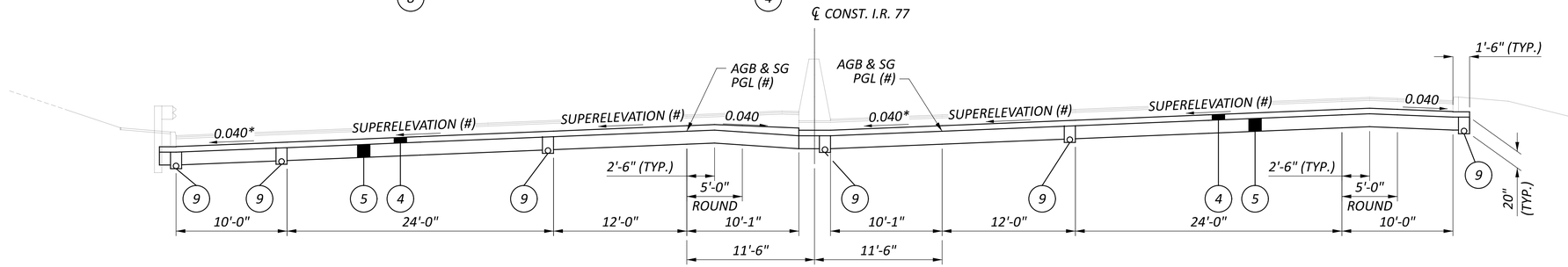
MODEL: Title Sheet - 1 PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 9:15:45 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GT001.dgn

PROPOSED TYPICAL SECTIONS
I.R. 77

SOUTHERN PAVEMENT TRANSITION AREA

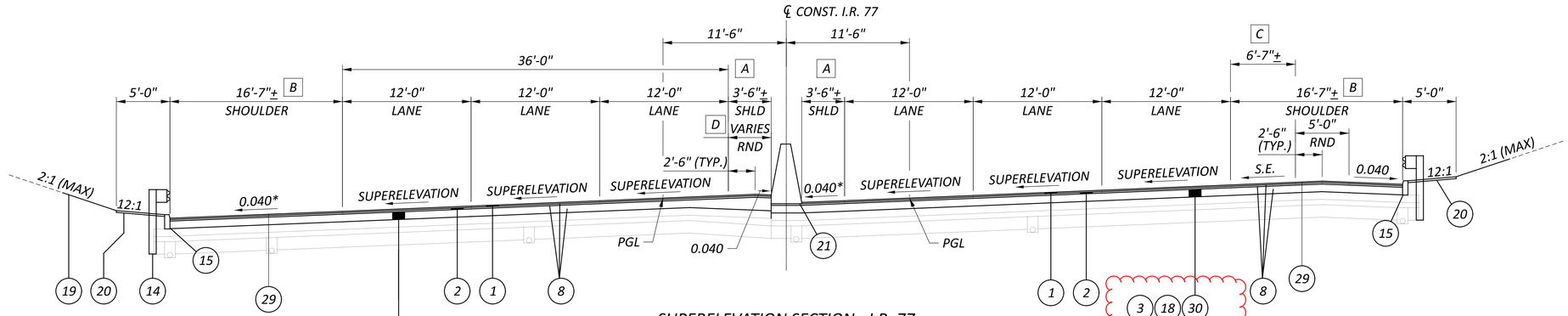
BETWEEN STA 74+50 AND 79+00 THE PAVEMENT AND PORTIONS OF THE TYPICAL SECTION ARE BEING DESIGNED TO ACCOMMODATE A FUTURE SOUTHERN PAVEMENT REPLACEMENT PROJECT. THE SUBGRADE, UNDERDRAINS, AGGREGATE BASE, AND LOWER 8.5" OF THE ASPHALT CONCRETE BASE ARE BEING CONSTRUCTED TO THE FUTURE CONDITION. ADDITIONAL THICKNESS OF VARIABLE DEPTH ASPHALT BASE AND VARIABLE DEPTH WEDGE COURSES OF INTERMEDIATE COURSE SHALL BE CONSTRUCTED TO MAKE THE PROFILE, CROSS SLOPE AND INSIDE SHOULDER WIDTH TRANSITIONS BETWEEN THE PROPOSED TYPICAL SECTION AT STA 79+00 AND AND THE EXISTING CONDITIONS AT STA 74+50, WITH UNIFORM THICKNESS SURFACE AND INTERMEDIATE COURSES PLACED OVER THE WEDGE AND VARIABLE DEPTH BASE COURSES . THE VARIABLE DEPTH AND WEDGE COURSES WILL NEED TO VARY IN THICKNESS BOTH LONGITUDINALLY AND LATERALLY WITHIN THIS TRANSITION AREA. THE FUTURE PAVEMENT REPLACEMENT PROJECT WILL REMOVE THE SURFACE, INTERMEDIATE, AND THE VARIABLE DEPTH PORTIONS OF THE PAVEMENT STRUCTURE, CONSTRUCT NEW INTERMEDIATE AND SURFACE COURSES, AND RECONSTRUCT CURBING, BARRIER AND GUARDRAIL SYSTEMS.





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

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



TYPICAL GRADING IN CUT WITH CURB AND GUARDRAIL

SUPERELEVATION SECTION - I.R. 77

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

PROPOSED LEGEND

1. *ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447), AS PER PLAN*
2. *ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)*
3. *ITEM 302 - 8.5" ASPHALT CONCRETE BASE, AS PER PLAN (A), 25.0 MM GYRATORY MIX (PLACE IN 2 LIFTS)*
4. *ITEM 304 - 6" AGGREGATE BASE*
5. *ITEM 204 - PROOF ROLLING*
   ITEM 206 - 14" CEMENT STABILIZED SUBGRADE
   ITEM 206 - CURING COAT
   ITEM 206 - CEMENT
6. *ITEM 609 - CURB, TYPE 2-A*
7. *ITEM 452 - 12" NON-REINFORCED CONCRETE PAVEMENT*
8. *ITEM 407 - NON-TRACKING TACK COAT*
9. *ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS*
10. *ITEM 204 - SUBGRADE COMPACTION*
11. *ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE B1*
12. *ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN, 6.8" MAX), AS PER PLAN*
13. *ITEM 202 - WEARING COURSE REMOVED*
14. *ITEM 606 - GUARDRAIL, TYPE MGS*
15. *ITEM 609 - CURB, TYPE 4-C*
16. *FULL DEPTH PAVEMENT SAWING (NO DIRECT PAYMENT)*
17. *ITEM 407 - TACK COAT, 702.13*
18. *ITEM 442 - VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (449) (0" MIN, 4.5" MAX), AS PER PLAN*
19. *ITEM 659 - SEEDING AND MULCHING*
20. *ITEM 441 - 2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (449), (UNDER GUARDRAIL), AS PER PLAN*
21. *ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C1*
22. *ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D*
23. *ITEM 659 - LONGITUDINAL CONSTRUCTION JOINT*
24. *ITEM 441 - 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22*
25. *ITEM 441 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448)*
26. *ITEM 304 - 8" AGGREGATE BASE*
27. *NOT USED*
28. *ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C*
29. *ITEM 618- RUMBLE STRIPS, SHOULDER, (ASPHALT CONCRETE), AS PER PLAN*
30. *ITEM 302 - ASPHALT CONCRETE BASE, (449), PG 64-22, AS PER PLAN*

NOTES:
SEE SHEET P.652-P.664 FOR SUPERELEVATION AND TRANSITION DETAILS.
4'-0" ROUNDING AT ALL GRADE BREAKS UNLESS OTHERWISE NOTED.

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

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

DESIGN AGENCY
HNTB

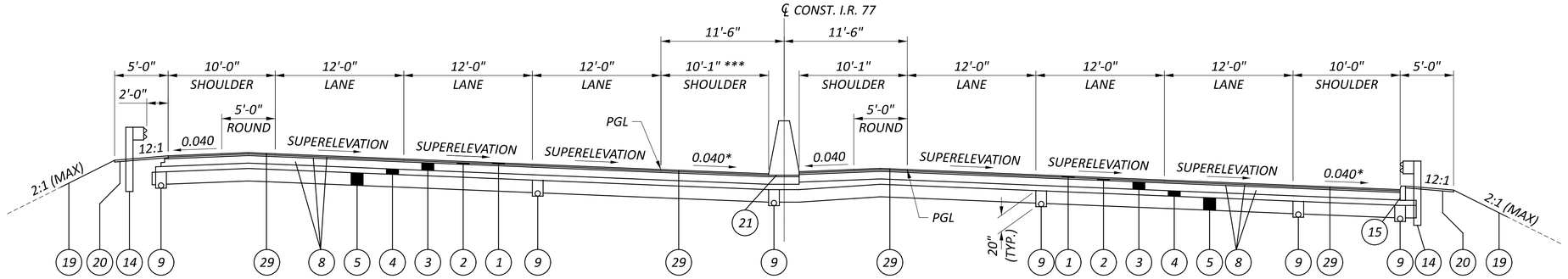
DESIGNER
AS

REVIEWER
KKP 04/11/22

PROJECT ID
105743

SHEET P.20 TOTAL P.1274

CUY-77-11.41 - PART 1
MODEL: PROP. BEGIN PROJECT [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 8:43:16 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Roadway\Sheets\105743_GY002.dgn

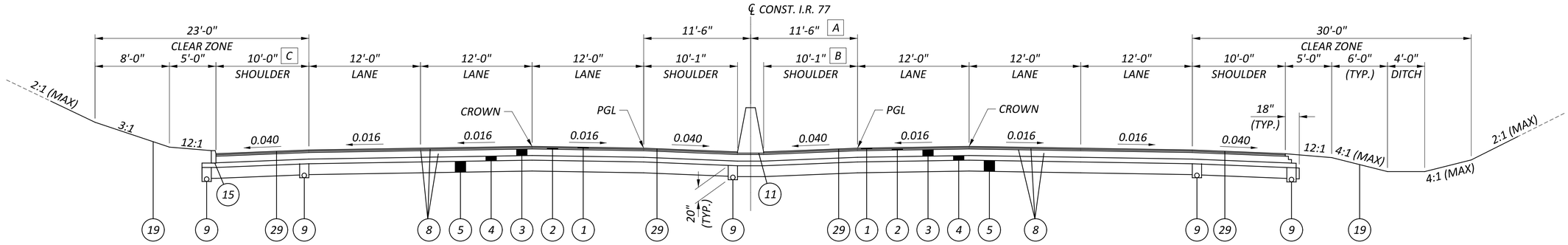


TYPICAL GRADING IN FILL WITH GUARDRAIL

SUPERELEVATION SECTION - I.R. 77

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

TYPICAL GRADING IN FILL WITH CURB AND GUARDRAIL

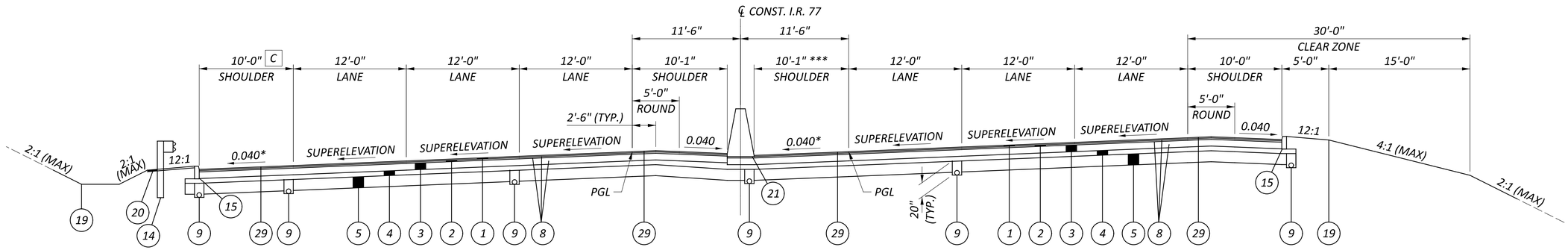


TYPICAL CLEAR ZONE GRADING IN CUT WITH CURB

NORMAL SECTION - I.R. 77

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

TYPICAL CLEAR ZONE GRADING IN CUT



TYPICAL GRADING IN CUT WITH CURB, GUARDRAIL, AND DITCH

SUPERELEVATION SECTION - I.R. 77

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

TYPICAL CLEAR ZONE GRADING IN FILL WITH CURB

PROPOSED LEGEND

1. ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447), AS PER PLAN
2. ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)
3. ITEM 302 - 8.5" ASPHALT CONCRETE BASE, AS PER PLAN (A), 25.0 MM GYRATORY MIX (PLACE IN 2 LIFTS)
4. ITEM 304 - 6" AGGREGATE BASE
5. ITEM 204 - PROOF ROLLING
ITEM 206 - 14" CEMENT STABILIZED SUBGRADE
ITEM 206 - CURING COAT
ITEM 206 - CEMENT
6. ITEM 609 - CURB, TYPE 2-A
7. ITEM 452 - 12" NON-REINFORCED CONCRETE PAVEMENT
8. ITEM 407 - NON-TRACKING TACK COAT
9. ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS
10. ITEM 204 - SUBGRADE COMPACTION
11. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE B1
12. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN, 6.8" MAX), AS PER PLAN
13. ITEM 202 - WEARING COURSE REMOVED
14. ITEM 606 - GUARDRAIL, TYPE MGS
15. ITEM 609 - CURB, TYPE 4-C
16. FULL DEPTH PAVEMENT SAWING (NO DIRECT PAYMENT)
17. ITEM 407 - TACK COAT, 702.13
18. ITEM 442 - VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (449) (0" MIN, 4.5" MAX), AS PER PLAN
19. ITEM 659 - SEEDING AND MULCHING
20. ITEM 441 - 2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (449), (UNDER GUARDRAIL), AS PER PLAN
21. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C1
22. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D
23. ITEM 659 - LONGITUDINAL CONSTRUCTION JOINT
24. ITEM 441 - 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
25. ITEM 441 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448)
26. ITEM 304 - 8" AGGREGATE BASE
27. NOT USED
28. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C
29. ITEM 618- RUMBLE STRIPS, SHOULDER, (ASPHALT CONCRETE), AS PER PLAN

NOTES:
SEE SHEET P.652-P.664 FOR SUPERELEVATION AND TRANSITION DETAILS.
4'-0" ROUNDING AT ALL GRADE BREAKS UNLESS OTHERWISE NOTED.
* 0.040 OR SLOPE OF SUPERELEVATION WHICHEVER IS GREATER
** HIGH SIDE SHOULDER ROUNDING NOT REQUIRED. FULL SHOULDER WIDTH IS 0.040.
*** SHOULDER NARROWS AT WIDENED TYPE C1 BARRIER LOCATIONS
PGL - PROFILE GRADE LINE

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

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

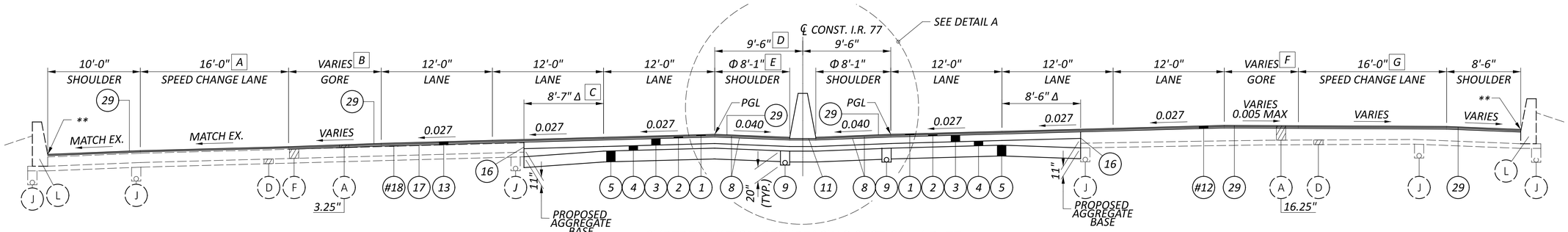
C VARIES FROM 10'-0" AT STA. 165+60.07 TO 14'-2" AT STA. 168+30.90
14'2" FROM STA. 168+30.90 TO STA. 170+98.01
13'9" FROM STA. 170+98.01 TO STA. 175+73.03

PROPOSED TYPICAL SECTIONS I.R. 77

DESIGN AGENCY: HNTB
DESIGNER: AS
REVIEWER: KKP 04/11/22
PROJECT ID: 105743
SHEET: P.21 TOTAL: P.1274

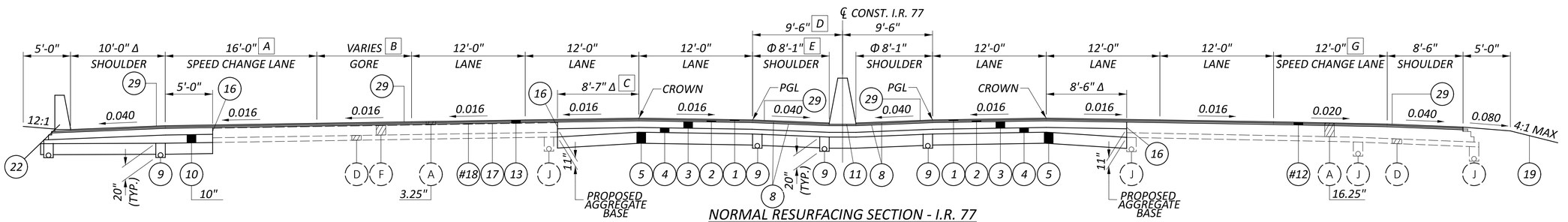
CUY-77-11.41 - PART 1

MODEL: PROP. TYPICAL-1 PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 8:43:16 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GY002.dgn



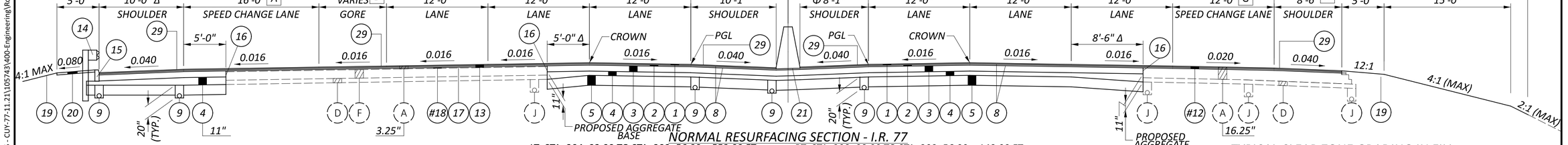
SUPERELEVATION RESURFACING SECTION - I.R. 77

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



NORMAL RESURFACING SECTION - I.R. 77

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



NORMAL RESURFACING SECTION - I.R. 77

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

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

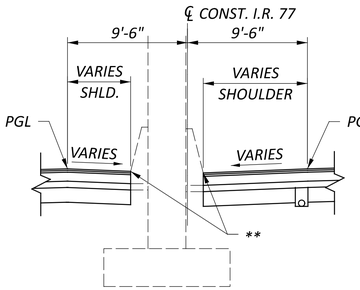
NOTES:
4'-0" ROUNDING AT ALL GRADE BREAKS UNLESS OTHERWISE NOTED.
Φ NORMAL DESIGN CRITERIA 10'-0"
Δ LIMITS OF VARIABLE DEPTH AGGREGATE BASE
SEE SHEET P.662-P.664 FOR PLANING AND VARIABLE INTERMEDIATE DEPTH DETAILS
** MATCH EXISTING PAVEMENT ELEVATIONS ALONG BARRIER TO REMAIN
PGL - PROFILE GRADE LINE

EXISTING LEGEND

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

PROPOSED LEGEND

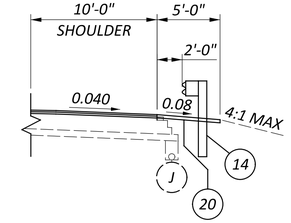
1. ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447), AS PER PLAN
2. ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)
3. ITEM 302 - 8.5" ASPHALT CONCRETE BASE, AS PER PLAN (A), 25.0 MM GYRATORY MIX (PLACE IN 2 LIFTS)
4. ITEM 304 - 6" AGGREGATE BASE
5. ITEM 204 - PROOF ROLLING
   ITEM 206 - 14" CEMENT STABILIZED SUBGRADE
   ITEM 206 - CURING COAT
   ITEM 206 - CEMENT
6. ITEM 609 - CURB, TYPE 2-A
7. ITEM 452 - 12" NON-REINFORCED CONCRETE PAVEMENT
8. ITEM 407 - NON-TRACKING TACK COAT
9. ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS
10. ITEM 204 - SUBGRADE COMPACTION
11. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE B1
12. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN, 6.8" MAX), AS PER PLAN
13. ITEM 202 - WEARING COURSE REMOVED
14. ITEM 606 - GUARDRAIL, TYPE MGS
15. ITEM 609 - CURB, TYPE 4-C
16. FULL DEPTH PAVEMENT SAWING (NO DIRECT PAYMENT)
17. ITEM 407 - TACK COAT, 702.13
18. ITEM 442 - VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (449) (0" MIN, 4.5" MAX), AS PER PLAN
19. ITEM 659 - SEEDING AND MULCHING
20. ITEM 441 - 2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (449), (UNDER GUARDRAIL), AS PER PLAN
21. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C1
22. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D
23. ITEM 659 - LONGITUDINAL CONSTRUCTION JOINT
24. ITEM 441 - 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
25. ITEM 441 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448)
26. ITEM 304 - 8" AGGREGATE BASE
27. NOT USED
28. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C
29. ITEM 618- RUMBLE STRIPS, SHOULDER, (ASPHALT CONCRETE), AS PER PLAN



DETAIL A

STA. 215+65.00 TO STA. 217+91.00

TYPICAL CLEAR ZONE GRADING IN FILL



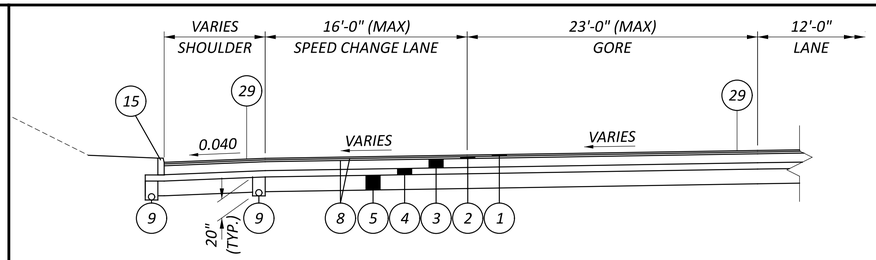
STA. 211+24.64 RT. TO STA. 214+28.00 RT.

PROPOSED TYPICAL SECTIONS I.R. 77

DESIGN AGENCY: HNTB
DESIGNER: AS
REVIEWER: KKP 04/11/22
PROJECT ID: 105743
SHEET: P.22 TOTAL: P.1274

CUY-77-11.41 - PART 1

MODEL: PROP. TYPICAL-2 PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 8:43:17 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GY002.dgn



SPEED CHANGE LANE DETAILS

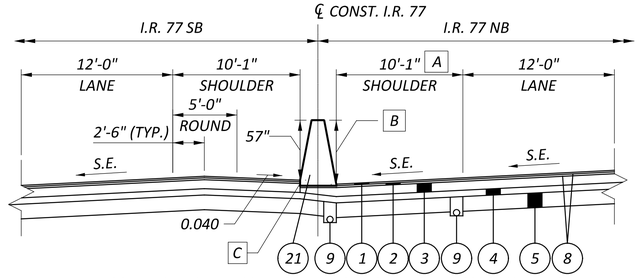
LEFT

(RAMP A3) STA. 84+01.07 TO STA. 89+37.30 = 536.23 FT.
(RAMP B2) STA. 93+55.21 TO STA. 108+64.93 = 1509.72 FT.
(RAMP B3) STA. 119+57.69 TO STA. 127+07.99 = 749.02 FT.
(RAMP C2) STA. 150+65.93 TO STA. 157+34.38 = 668.45 FT.
(RAMP D2) STA. 176+83.05 TO STA. 192+12.96 = 1529.91 FT.

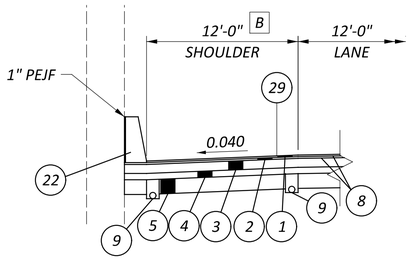
RIGHT

STA. 81+05.60 TO STA. 96+05.66 = 1500.06 FT. (RAMP A4)
STA. 101+85.51 TO STA. 106+69.66 = 484.15 FT. (RAMP B1)
STA. 117+83.77 TO STA. 132+90.96 = 1507.19 FT. (RAMP B4 AND C1)
STA. 146+42.86 TO STA. 161+68.10 = 1525.24 (RAMP C3)
STA. 182+99.10 TO STA. 190+98.90 = 798.95 (RAMP D1)
STA. 197+12.01 TO STA. 203+83.61 = 671.60 (RAMP E1)

SUPERELEVATION	A	B	C
0.031	10'-1"	58⅛"	2½"
0.036	10'-1"	58¾"	3¼"
0.041	10'-1"	59 ½"	4⅛"
0.050	10'-0"	60⅞"	5⅜"

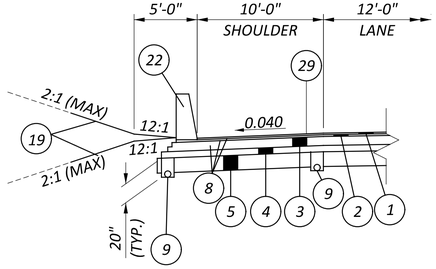


MEDIAN BARRIER, TYPE C1 DETAIL AT INSIDE SHOULDERS (SUPER ELEVATED LEFT SHOWN, MIRROR FOR SUPERELEVATED RIGHT)

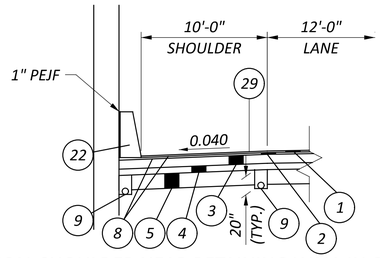


SHOULDER DETAIL AGAINST EXISTING WALL/ABUTMENT

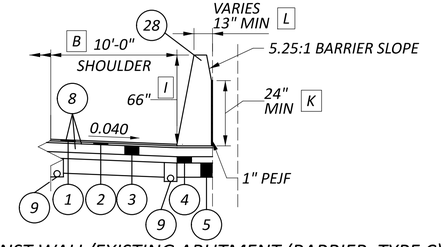
LT: STA. 89+37.30 TO STA. 106+05.21 = 2482.37 FT.
RT: STA. 89+32.15 TO STA. 90+74.60 = 799.97 FT.



TYPICAL GRADING WITH CONCRETE BARRIER

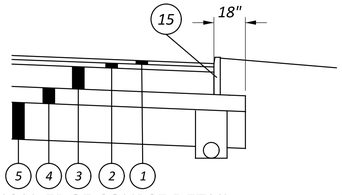


TYPICAL SHOULDER NEAR RETAINING WALL IN CUT

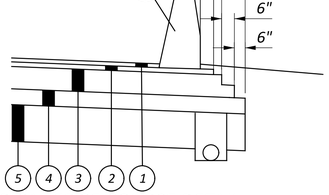


SHOULDER DETAIL AGAINST WALL/EXISTING ABUTMENT (BARRIER, TYPE C)

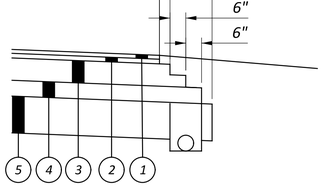
RT: STA. 89+02.53 TO STA. 89+32.15 = 29.62 FT. (RETAINING WALL 2)
LT: STA. 141+76.34 TO STA. 142+54.87 = 78.53 FT.



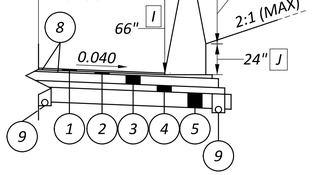
TYPICAL EDGE COURSE DETAIL WITH CURB



TYPICAL EDGE COURSE DETAIL WITH BARRIER



TYPICAL EDGE COURSE DETAIL



BARRIER TYPE C GRADING DETAIL

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

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

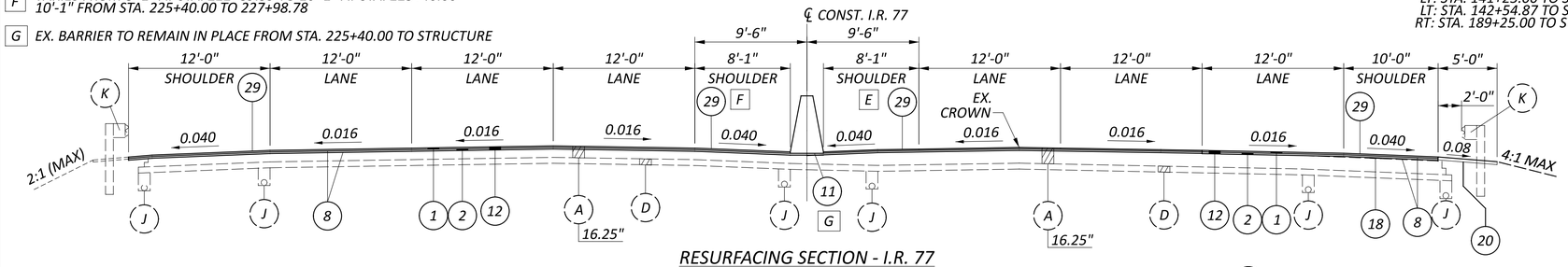
J RT: HEIGHT IS 18" FROM STA. 189+25.00 TO STA. 190+95.11

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

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

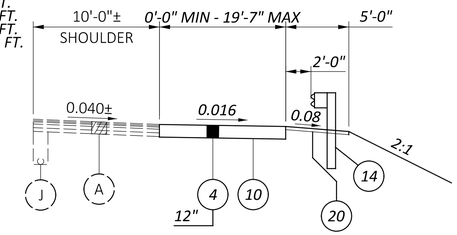
F VARIES FROM 8'-1" AT STA. 222+89.59 TO 10'-1" AT STA. 225+40.00
10'-1" FROM STA. 225+40.00 TO 227+98.78

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



RESURFACING SECTION - I.R. 77

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



ITS DRIVE DETAIL

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

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

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

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

PROPOSED LEGEND

1. ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447), AS PER PLAN
2. ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)
3. ITEM 302 - 8.5" ASPHALT CONCRETE BASE, AS PER PLAN (A), 25.0 MM GYRATORY MIX (PLACE IN 2 LIFTS)
4. ITEM 304 - 6" AGGREGATE BASE
5. ITEM 204 - PROOF ROLLING
   ITEM 206 - 14" CEMENT STABILIZED SUBGRADE
   ITEM 206 - CURING COAT
   ITEM 206 - CEMENT
6. ITEM 609 - CURB, TYPE 2-A
7. ITEM 452 - 12" NON-REINFORCED CONCRETE PAVEMENT
8. ITEM 407 - NON-TRACKING TACK COAT
9. ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS
10. ITEM 204 - SUBGRADE COMPACTION
11. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE B1
12. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN, 6.8" MAX), AS PER PLAN
13. ITEM 202 - WEARING COURSE REMOVED
14. ITEM 606 - GUARDRAIL, TYPE MGS
15. ITEM 609 - CURB, TYPE 4-C
16. FULL DEPTH PAVEMENT SAWING (NO DIRECT PAYMENT)
17. ITEM 407 - TACK COAT, 702.13
18. ITEM 442 - VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (449) (0" MIN, 4.5" MAX), AS PER PLAN
19. ITEM 659 - SEEDING AND MULCHING
20. ITEM 441 - 2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (449), (UNDER GUARDRAIL), AS PER PLAN
21. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C1
22. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D
23. ITEM 659 - LONGITUDINAL CONSTRUCTION JOINT
24. ITEM 441 - 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
25. ITEM 441 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448)
26. ITEM 304 - 8" AGGREGATE BASE
27. NOT USED
28. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C
29. ITEM 618- RUMBLE STRIPS, SHOULDER, (ASPHALT CONCRETE), AS PER PLAN

PROPOSED TYPICAL SECTIONS
DETAILS

DESIGN AGENCY
HNTB

DESIGNER
AS

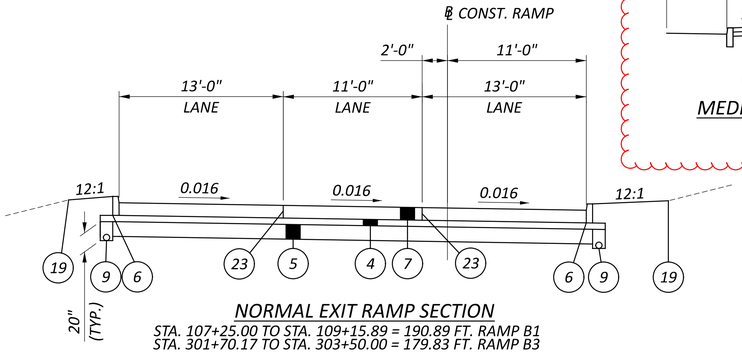
REVIEWER
KKP 04/11/22

PROJECT ID
105743

SHEET P.23 TOTAL P.1274

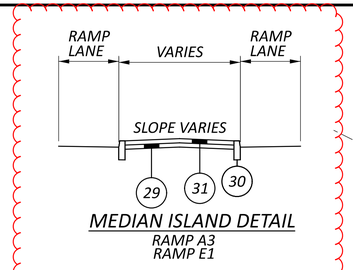
CUY-77-11.41 - PART 1

MODEL: PROP. TYPICAL-3 PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 8:43:18 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GY002.dgn



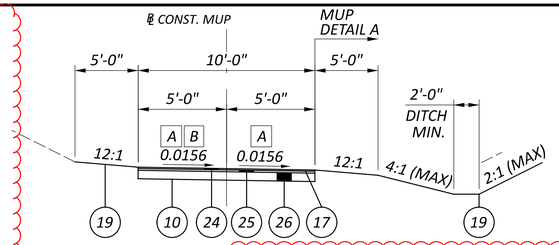
NORMAL EXIT RAMP SECTION

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



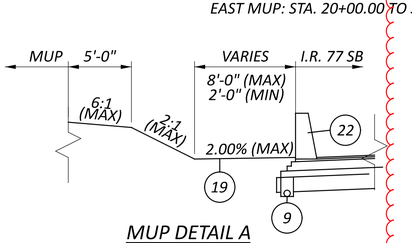
MEDIAN ISLAND DETAIL

RAMP A3
RAMP E1



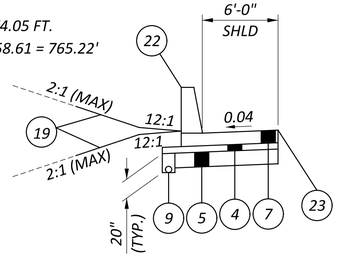
MULTI -USE PATH

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

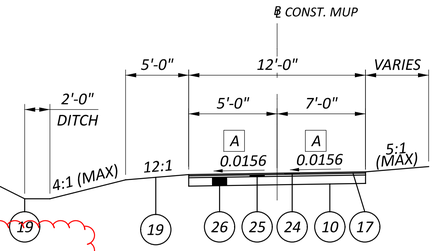


MUP DETAIL A

STA. 5+25.95 TO 15+50.00 = 1024.05 FT.

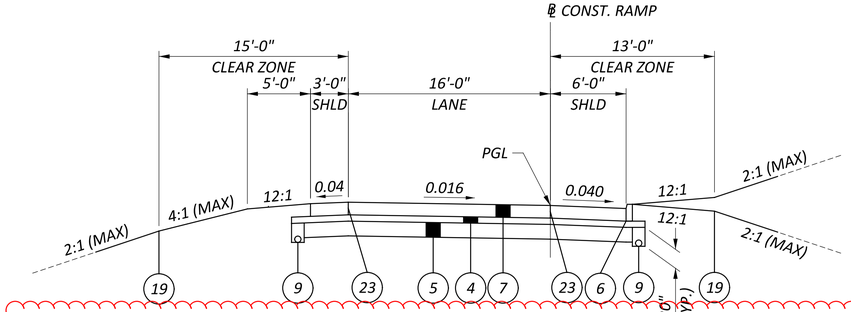


TYPICAL GRADING WITH CONCRETE BARRIER - RAMP



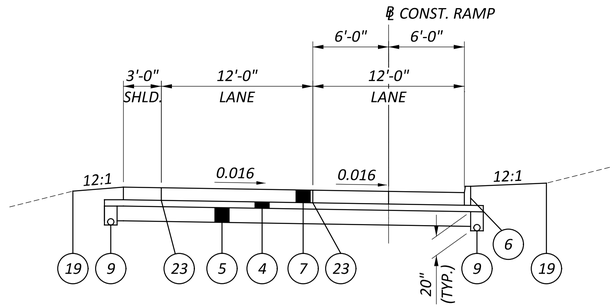
MULTI -USE PATH

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



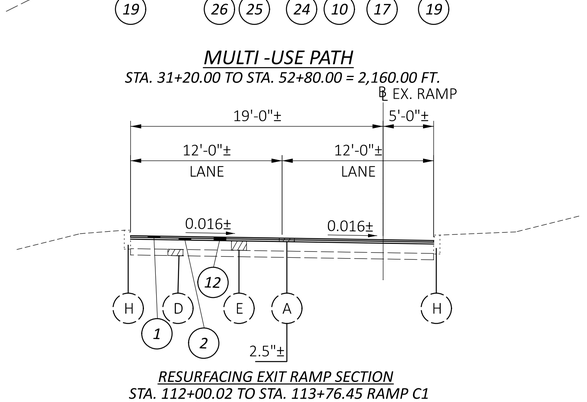
NORMAL SECTION - RAMP

STA. 300+29.34 TO STA. 305+50.11 = 520.77 FT. RAMP A3
STA. 303+50.00 TO STA. 304+96.92 = 146.92 FT. RAMP B3
STA. 401+75.00 TO STA. 402+63.29 = 88.29 FT. RAMP B4
STA. 104+81.00 TO STA. 110+70.00 = 589.00 FT. RAMP C1
STA. 203+00.00 TO STA. 204+28.48 = 128.48 FT. RAMP C2
STA. 300+46.76 TO STA. 303+29.35 = 282.59 FT. RAMP C3
STA. 106+46.05 TO STA. 106+50.00 = 3.95 FT. RAMP D1



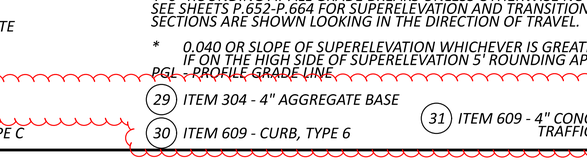
NORMAL EXIT RAMP SECTION

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



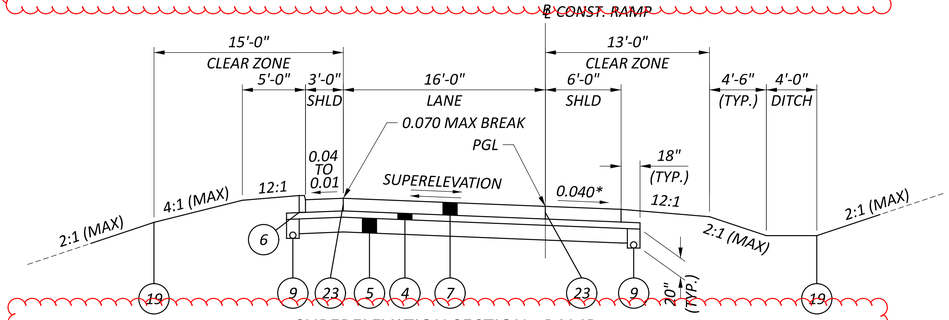
MULTI -USE PATH

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



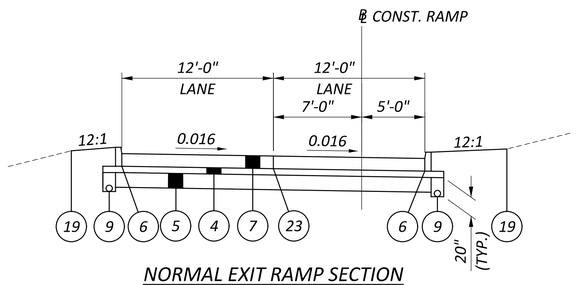
RESURFACING EXIT RAMP SECTION

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



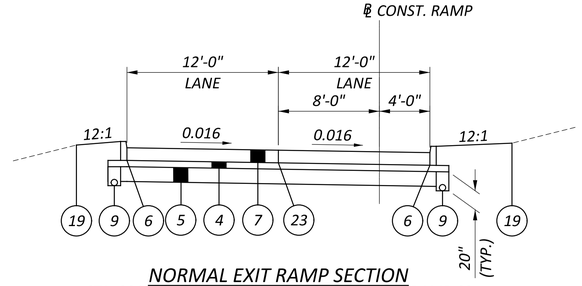
SUPERELEVATION SECTION - RAMP

STA. 305+50.11 TO STA. 307+02.63 = 152.52 FT. RAMP A3
STA. 405+69.77 TO STA. 408+23.18 = 253.41 FT. RAMP A4
STA. 104+35.01 TO STA. 107+25.00 = 289.99 FT. RAMP B1
STA. 202+62.20 TO STA. 204+73.30 = 211.10 FT. RAMP B2
STA. 304+96.92 TO STA. 307+62.85 = 265.93 FT. RAMP B3
STA. 402+63.29 TO STA. 405+22.55 = 259.26 FT. RAMP B4
STA. 303+29.35 TO STA. 304+21.41 = 92.06 FT. RAMP C3
STA. 103+41.88 TO STA. 106+46.05 = 304.17 FT. RAMP D1
STA. 202+86.00 TO STA. 205+90.00 = 304.00 FT. RAMP D2
STA. 105+70.26 TO STA. 110+50.00 = 479.74 FT. RAMP E1



NORMAL EXIT RAMP SECTION

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



NORMAL EXIT RAMP SECTION

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

PROPOSED LEGEND

1. ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447), AS PER PLAN
2. ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)
3. ITEM 302 - 8.5" ASPHALT CONCRETE BASE, AS PER PLAN (A), 25.0 MM GYRATORY MIX (PLACE IN 2 LIFTS)
4. ITEM 304 - 6" AGGREGATE BASE
5. ITEM 204 - PROOF ROLLING
   ITEM 206 - 14" CEMENT STABILIZED SUBGRADE
   ITEM 206 - CURING COAT
   ITEM 206 - CEMENT
6. ITEM 609 - CURB, TYPE 2-A
7. ITEM 452 - 12" NON-REINFORCED CONCRETE PAVEMENT
8. ITEM 407 - NON-TRACKING TACK COAT
9. ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS
10. ITEM 204 - SUBGRADE COMPACTION
11. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE B1
12. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN, 6.8" MAX), AS PER PLAN
13. ITEM 202 - WEARING COURSE REMOVED
14. ITEM 606 - GUARDRAIL, TYPE MGS
15. ITEM 609 - CURB, TYPE 4-C
16. FULL DEPTH PAVEMENT SAWING (NO DIRECT PAYMENT)
17. ITEM 407 - TACK COAT, 702.13
18. ITEM 442 - VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (449) (0" MIN, 4.5" MAX), AS PER PLAN
19. ITEM 659 - SEEDING AND MULCHING
20. ITEM 441 - 2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (449), (UNDER GUARDRAIL), AS PER PLAN
21. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C1
22. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D
23. ITEM 659 - LONGITUDINAL CONSTRUCTION JOINT
24. ITEM 441 - 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
25. ITEM 441 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448)
26. ITEM 304 - 8" AGGREGATE BASE
27. NOT USED
28. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C
29. ITEM 304 - 4" AGGREGATE BASE
30. ITEM 609 - CURB, TYPE 6
31. ITEM 609 - 4" CONCRETE TRAFFIC ISLAND

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

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

NOTES:
4'-0" ROUNDING AT ALL GRADE BREAKS UNLESS OTHERWISE NOTED.
SEE SHEETS P.652-P.664 FOR SUPERELEVATION AND TRANSITION DETAILS.
SECTIONS ARE SHOWN LOOKING IN THE DIRECTION OF TRAVEL.

* 0.040 OR SLOPE OF SUPERELEVATION WHICHEVER IS GREATER.
IF ON THE HIGH SIDE OF SUPERELEVATION 5' ROUNDING APPLIES

PGL - PROFILE GRADE LINE

PROPOSED TYPICAL SECTIONS
INTERCHANGE RAMPS AND MUP

DESIGN AGENCY
HNTB

DESIGNER AS
REVIEWER KKP 04/11/22
PROJECT ID 105743
SHEET P.24 TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: PROP_TYPICAL-4 PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 8:43:19 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\W00-Engineering\Roadway\Sheets\105743_GY002.dgn

NEW SHEET ADDED

ROADWAY (CONT.)

CONCRETE BARRIER DETAILS

REINFORCED END ANCHORAGES ARE REQUIRED AT THE END OF CONCRETE BARRIER RUNS AND AT INTERRUPTIONS IN BARRIER CAUSED BY EXPANSION JOINTS. WHEN BARRIER DOES NOT ABUT ANOTHER BARRIER RUN, CONSTRUCT END ANCHORAGES AND END SECTIONS PER SCD RM-4.3 FOR BARRIER TYPES B1, C, C1 AND RM-4.5 FOR BARRIER TYPE D. INTERRUPTIONS IN BARRIER ARE SUMMARIZED IN THE FOLLOWING TABLE. SEE ROADWAY SUBSUMMARY FOR QUANTITIES CARRIED TO THE GENERAL SUMMARY.

BARRIER INTERRUPTION	ROUTE	STATION	BARRIER TYPE	END TYPE	QUANTITY
BARRIER TRANSITION FROM EXISTING BARRIER	I.R.77	69+50	B1	ANCHORAGE	1
BEGIN INLET	I.R.77	75+00	C1	ANCHORAGE	1
END INLET	I.R.77	75+20	C1	ANCHORAGE	1
BEGIN INLET	I.R.77	78+80	C1	ANCHORAGE	1
END INLET	I.R.77	79+00	C1	ANCHORAGE	1
BEGIN INLET	I.R.77	81+50	C1	ANCHORAGE	1
END INLET	I.R.77	81+70	C1	ANCHORAGE	1
BEGIN INLET	I.R.77	82+47	C1	ANCHORAGE	1
END INLET	I.R.77	82+67	C1	ANCHORAGE	1
BEGIN INLET	I.R.77	83+40	C1	ANCHORAGE	1
END INLET	I.R.77	83+60	C1	ANCHORAGE	1
BEGIN INLET	I.R.77	85+90	C1	ANCHORAGE	1
END INLET	I.R.77	86+10	C1	ANCHORAGE	1
BEGIN SIGN SUPPORT BARRIER TRANSITION	I.R.77	86+55	C1	ANCHORAGE	2
END SIGN SUPPORT BARRIER TRANSITION	I.R.77	87+45	C1	ANCHORAGE	2
BEGIN SIGN SUPPORT BARRIER TRANSITION	I.R.77	88+55	C1	ANCHORAGE	2
END SIGN SUPPORT BARRIER TRANSITION	I.R.77	89+45	C1	ANCHORAGE	2
MAXIMUM EXPANSION JOINT SPACING	I.R.77	93+50	C1	ANCHORAGE	2
BEGIN INLET	I.R.77	98+90	C1	ANCHORAGE	1
END INLET	I.R.77	99+10	C1	ANCHORAGE	1
BEGIN BARRIER RUN	I.R.77	99+60	D	SECTION	1
BEGIN INLET	I.R.77	104+19	D	ANCHORAGE	1
END INLET	I.R.77	104+39	D	ANCHORAGE	1
BEGIN INLET	I.R.77	106+36	D	ANCHORAGE	1
END INLET	I.R.77	106+56	D	ANCHORAGE	1
BEGIN INLET	I.R.77	106+87	D	ANCHORAGE	1
END INLET	I.R.77	107+07	D	ANCHORAGE	1
BEGIN INLET	I.R.77	107+98	D	ANCHORAGE	1
END INLET	I.R.77	108+18	D	ANCHORAGE	1
END BARRIER RUN	I.R.77	108+31	D	ANCHORAGE	1
BEGIN SIGN SUPPORT BARRIER TRANSITION	I.R.77	103+58	C1	ANCHORAGE	2
END SIGN SUPPORT BARRIER TRANSITION	I.R.77	104+48	C1	ANCHORAGE	2
BEGIN INLET	I.R.77	110+70	C1	ANCHORAGE	1
END INLET	I.R.77	110+90	C1	ANCHORAGE	1
BEGIN INLET	I.R.77	117+44	C1	ANCHORAGE	1
END INLET	I.R.77	117+64	C1	ANCHORAGE	1
BEGIN INLET	I.R.77	125+68	C1	ANCHORAGE	1
END INLET	I.R.77	125+88	C1	ANCHORAGE	1
BEGIN SIGN SUPPORT BARRIER TRANSITION	I.R.77	127+57	C1	ANCHORAGE	2
END SIGN SUPPORT BARRIER TRANSITION	I.R.77	128+47	C1	ANCHORAGE	2
BEGIN INLET	I.R.77	128+90	C1	ANCHORAGE	1
END INLET	I.R.77	129+10	C1	ANCHORAGE	1
BEGIN INLET	I.R.77	129+67	C1	ANCHORAGE	1
END INLET	I.R.77	129+87	C1	ANCHORAGE	1
BEGIN INLET	I.R.77	130+55	C1	ANCHORAGE	1
END INLET	I.R.77	130+75	C1	ANCHORAGE	1
BEGIN INLET	I.R.77	135+70	B1	ANCHORAGE	1
END INLET	I.R.77	135+90	B1	ANCHORAGE	1
MAXIMUM EXPANSION JOINT SPACING	I.R.77	140+86	C1	ANCHORAGE	2
BEGIN INLET	I.R.77	145+93	C1	ANCHORAGE	1
END INLET	I.R.77	146+13	C1	ANCHORAGE	1
BEGIN SIGN SUPPORT BARRIER TRANSITION	I.R.77	153+57	C1	ANCHORAGE	2
END SIGN SUPPORT BARRIER TRANSITION	I.R.77	154+47	C1	ANCHORAGE	2
BEGIN SIGN SUPPORT BARRIER TRANSITION	I.R.77	161+05	C1	ANCHORAGE	2
END SIGN SUPPORT BARRIER TRANSITION	I.R.77	161+95	C1	ANCHORAGE	2
BEGIN INLET	I.R.77	162+15	C1	ANCHORAGE	1
END INLET	I.R.77	162+35	C1	ANCHORAGE	1
BEGIN INLET	I.R.77	163+25	C1	ANCHORAGE	1
END INLET	I.R.77	163+45	C1	ANCHORAGE	1
BEGIN INLET	I.R.77	164+60	C1	ANCHORAGE	1
END INLET	I.R.77	164+80	C1	ANCHORAGE	1
BEGIN INLET	I.R.77	165+55	C1	ANCHORAGE	1
END INLET	I.R.77	165+75	C1	ANCHORAGE	1
BEGIN INLET	I.R.77	167+60	C1	ANCHORAGE	1
END INLET	I.R.77	167+80	C1	ANCHORAGE	1
MAXIMUM EXPANSION JOINT SPACING	I.R.77	173+25	C1	ANCHORAGE	2
BEGIN SIGN SUPPORT BARRIER TRANSITION	I.R.77	176+53	C1	ANCHORAGE	2
END SIGN SUPPORT BARRIER TRANSITION	I.R.77	177+43	C1	ANCHORAGE	2
BEGIN INLET	I.R.77	183+40	C1	ANCHORAGE	1
END INLET	I.R.77	183+60	C1	ANCHORAGE	1
BEGIN INLET	I.R.77	188+90	C1	ANCHORAGE	1
END INLET	I.R.77	189+10	C1	ANCHORAGE	1
BEGIN INLET	I.R.77	193+90	C1	ANCHORAGE	1
END INLET	I.R.77	194+10	C1	ANCHORAGE	1
BEGIN SIGN SUPPORT BARRIER TRANSITION	I.R.77	195+55	C1	ANCHORAGE	2
END SIGN SUPPORT BARRIER TRANSITION	I.R.77	196+45	C1	ANCHORAGE	2
BEGIN INLET	I.R.77	199+10	C1	ANCHORAGE	1
END INLET	I.R.77	199+30	C1	ANCHORAGE	1
BEGIN INLET	I.R.77	200+08	B1	ANCHORAGE	1
END INLET	I.R.77	200+28	B1	ANCHORAGE	1
BEGIN INLET	I.R.77	201+05	B1	ANCHORAGE	1
END INLET	I.R.77	201+25	B1	ANCHORAGE	1
MAXIMUM EXPANSION JOINT SPACING	I.R.77	206+50	C1	ANCHORAGE	2

BARRIER INTERRUPTION	ROUTE	STATION	BARRIER TYPE	END TYPE	QUANTITY
BEGIN SIGN SUPPORT BARRIER TRANSITION	I.R.77	212+55	C1	ANCHORAGE	2
END SIGN SUPPORT BARRIER TRANSITION	I.R.77	213+45	C1	ANCHORAGE	2
BEGIN INLET	I.R.77	214+56	C1	ANCHORAGE	1
END INLET	I.R.77	214+76	C1	ANCHORAGE	1
BEGIN INLET	I.R.77	215+45	C1	ANCHORAGE	1
END INLET	I.R.77	215+65	C1	ANCHORAGE	1
BEGIN INLET	I.R.77	220+50	C1	ANCHORAGE	1
END INLET	I.R.77	220+70	C1	ANCHORAGE	1
BEGIN INLET	I.R.77	223+48	C1	ANCHORAGE	1
END INLET	I.R.77	223+68	C1	ANCHORAGE	1
BEGIN BARRIER RUN	RAMP C2	201+50	D	ANCHORAGE	1
BEGIN INLET	RAMP C2	203+68	D	ANCHORAGE	1
END INLET	RAMP C2	203+88	D	ANCHORAGE	1
BEGIN INLET	RAMP C2	204+11	D	ANCHORAGE	1
END INLET	RAMP C2	204+31	D	ANCHORAGE	1
BEGIN INLET	RAMP C2	204+50	D	ANCHORAGE	1
END INLET	RAMP C2	204+70	D	ANCHORAGE	1
BEGIN INLET	RAMP C2	205+50	D	ANCHORAGE	1
END INLET	RAMP C2	205+70	D	ANCHORAGE	1
BARRIER DIRECTION CHANGE AT LANE TAPER	RAMP C2	209+93	D	ANCHORAGE	1
BEGIN BARRIER RUN	I.R.77	210+75	D	ANCHORAGE	1
END BARRIER RUN	I.R.77	213+75	D	ANCHORAGE	1
BEGIN BARRIER RUN	RAMP A4	400+57	D	ANCHORAGE	1
END BARRIER RUN	RAMP A4	400+95	D	ANCHORAGE	1
BEGIN BARRIER RUN	I.R.77	75+50	D	SECTION	1
END BARRIER RUN	I.R.77	76+40	D	ANCHORAGE	1
BEGIN BARRIER RUN	I.R.77	76+00	C	ANCHORAGE	1
END BARRIER RUN	I.R.77	77+40	MISC. C	SECTION	1
BEGIN BARRIER RUN	RAMP A3	307+03	D	ANCHORAGE	1
BEGIN INLET	RAMP A3	307+20	D	ANCHORAGE	1
END INLET	RAMP A3	307+40	D	ANCHORAGE	1
BEGIN INLET	RAMP A3	307+70	D	ANCHORAGE	1
END INLET	RAMP A3	307+90	D	ANCHORAGE	1
BEGIN INLET	RAMP A3	308+85	D	ANCHORAGE	1
END INLET	RAMP A3	309+05	D	ANCHORAGE	1
BEGIN INLET	RAMP A3	311+00	D	ANCHORAGE	1
END INLET	RAMP A3	311+20	D	ANCHORAGE	1
BEGIN INLET	I.R.77	92+72	D	ANCHORAGE	1
END INLET	I.R.77	92+92	D	ANCHORAGE	1
BEGIN INLET	I.R.77	95+45	D	ANCHORAGE	1
END INLET	I.R.77	95+65	D	ANCHORAGE	1
BEGIN INLET	I.R.77	98+80	D	ANCHORAGE	1
END INLET	I.R.77	99+00	D	ANCHORAGE	1
END BARRIER RUN	RAMP B2	200+00	D	SECTION	1
BEGIN BARRIER RUN	I.R.77	88+75	MISC. C	SECTION	1
BARRIER DIRECTION CHANGE AT LANE TAPER	I.R.77	89+32	C	ANCHORAGE	1
BARRIER DIRECTION CHANGE AT LANE TAPER	I.R.77	89+32	D	ANCHORAGE	1
BEGIN INLET	I.R.77	95+45	D	ANCHORAGE	1
END INLET	I.R.77	95+65	D	ANCHORAGE	1
END BARRIER RUN	I.R.77	96+75	D	SECTION	1
BEGIN BARRIER RUN	I.R.77	112+00	D	SECTION	1
END BARRIER RUN	I.R.77	113+20	D	ANCHORAGE	1
BEGIN BARRIER RUN	I.R.77	111+80	D	ANCHORAGE	1
END BARRIER RUN	I.R.77	113+00	D	SECTION	1
END BARRIER RUN / BEGIN INLET	I.R.77	128+96	D	SECTION	1
END INLET	I.R.77	129+17	D	ANCHORAGE	1
BEGIN INLET	I.R.77	129+67	D	ANCHORAGE	1
END INLET	I.R.77	129+87	D	ANCHORAGE	1
BEGIN INLET	I.R.77	130+55	D	ANCHORAGE	1
END INLET	I.R.77	130+75	D	ANCHORAGE	1
END BARRIER RUN	I.R.77	131+64	D	SECTION	1
BEGIN BARRIER RUN	I.R.77	141+25	C	ANCHORAGE	1
BEGIN INLET	I.R.77	141+40	C	ANCHORAGE	1
END INLET	I.R.77	141+60	C	ANCHORAGE	1
END BARRIER RUN	I.R.77	143+25	MISC. C	SECTION	1
BEGIN BARRIER RUN	I.R.77	141+65	D	SECTION	1
END BARRIER RUN	I.R.77	142+65	D	SECTION	1
BEGIN BARRIER RUN	I.R.77	155+00	D	SECTION	1
BEGIN INLET	I.R.77	159+75	D	ANCHORAGE	1
END INLET	I.R.77	159+95	D	ANCHORAGE	1
BEGIN INLET	I.R.77	165+20	D	ANCHORAGE	1
END INLET	I.R.77	165+40	D	ANCHORAGE	1
BEGIN INLET	I.R.77	166+17	D	ANCHORAGE	1
END INLET	I.R.77	166+37	D	ANCHORAGE	1
BEGIN INLET	I.R.77	167+50	D	ANCHORAGE	1
END INLET	I.R.77	167+70	D	ANCHORAGE	1
END BARRIER RUN	I.R.77	171+00	D	ANCHORAGE	1
BEGIN BARRIER RUN	I.R.77	176+31	D	ANCHORAGE	1
END BARRIER RUN	I.R.77	177+26	D	SECTION	1
BEGIN BARRIER RUN	RAMP D1	101+75	MISC. C	SECTION	1
BEGIN INLET	RAMP D1	102+20	C	ANCHORAGE	1
END INLET	RAMP D1	102+40	C	ANCHORAGE	1
END BARRIER RUN	RAMP D1	103+42	MISC. C	SECTION	1
BEGIN BARRIER RUN	I.R.77	197+50	D	SECTION	1
END BARRIER RUN	I.R.77	198+50	D	ANCHORAGE	1
BEGIN BARRIER RUN	I.R.77	197+50	D	ANCHORAGE	1
END BARRIER RUN	I.R.77	198+50	D	SECTION	1
END BARRIER RUN	RAMP A2	15+07	D	SECTION	1
END BARRIER RUN	RAMP A3	300+59	D	SECTION	1

GENERAL NOTES

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
KKP 02/15/22

PROJECT ID
105743

SHEET P.25A | TOTAL P.1274

CTY-RTE-SECTION

MODEL: GN001A-4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 9:54:42 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: smalin@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\3015525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GN001.dgn

GENERAL (CONT.)

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

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

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

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

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

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

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

COOPERATION BETWEEN CONTRACTORS

THE CONTRACTOR SHALL BE ADVISED THAT SEVERAL PROJECTS MAY BE ONGOING AND HAVE WORK IN THE AREA IMMEDIATELY ADJACENT TO AND WITHIN THE PROJECT LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL SCHEDULE HIS/HER WORK SO AS TO LIMIT DELAY OR CONFLICT WITH THE OTHER PROJECTS TO GREATEST EXTENT POSSIBLE. IN ACCORDANCE WITH 105.08, THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OTHER CONTRACTORS AND THE PROJECT ENGINEER. IF NECESSARY THE CONTRACTOR SHALL SCHEDULE COORDINATION MEETINGS WITH ADJACENT PROJECTS TO RESOLVE CONFLICTS AND DEVELOP A COORDINATION PLAN. DETAILS OF COORDINATION THAT HAS TAKEN PLACE WITH ADJACENT PROJECT CONTRACTORS AND POTENTIAL CONFLICTS SHOULD BE DOCUMENTED AND DISCUSSED AT ALL PROJECT PROGRESS MEETINGS. ANY CONFLICT BETWEEN CONTRACTORS INVOLVING WORK SCHEDULES, WORK AREA, OR COOPERATION SHALL BE BROUGHT TO THE PROJECT ENGINEER FOR RESOLUTION. COMPENSATION FOR THE ABOVE COOPERATION/COORDINATION SHALL BE INCIDENTAL TO THE VARIOUS PAY ITEMS INCLUDED WITHIN THIS PROJECT.

THE FOLLOWING LIST IDENTIFIES KNOWN PROJECTS IN THE PROJECT WORK AREA AT THE TIME OF FINAL PLAN SUBMITTAL. THE LIST IS FOR INFORMATION ONLY AND IS NOT INTENDED TO REPRESENT THE FULL LIST OF PROJECTS THAT MAY BE ACTIVE DURING THE LIFE OF THE PROJECT.

-CUY-490-0.00 (PID 107408)
-CUY-90-16.28 CCG3A (PID 82382)
-CUY-77-10.08 (PID 123189)
-CUY-77-11.11 (PID 21788)
CUY-77-15.46 (PID 119380)
-CARNEGIE AVENUE REHABILITATION PHASE 3 - E.9TH TO E.55TH
-CLEVELAND DOWNTOWN CONNECTOR TRAIL (PID 105926)

STAGING AREAS

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

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

EQUIPMENT AND MATERIAL STORAGE

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

1. ANY REMOVED ITEMS SHALL NOT BE STORED ON THE RIGHT OF WAY FOR MORE THAN THIRTY (30) DAYS.

2. THE STORAGE OF EQUIPMENT, MATERIALS, AND VEHICLES WITHIN THE HIGHWAY RIGHT OF WAY WILL BE PERMITTED. THE NUMBER OF AREAS AND EXACT LOCATION SHALL BE APPROVED BY THE ENGINEER.

3. ALL DISTURBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE STATE.

ITEM 202 - REMOVAL MISC.: RAILROAD RAILS AND TIES

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

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

ITEM 619 FIELD OFFICE, TYPE C, AS PER PLAN

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

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

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

FURNISH TRASH COLLECTION SERVICE / DUMPSTER.

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

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

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

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

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

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

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

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

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

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

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

ROADWAY

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

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

ITEM 209 - RESHAPING UNDER GUARDRAIL, AS PER PLAN

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

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

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

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

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

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

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

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

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

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

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

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

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

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

METHOD A:

1.SET GUARDRAIL POSTS
2.PLACE ITEM 441

METHOD B:

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

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

MGS RAIL SPANNING DRAINAGE STRUCTURES

WHEN MGS RAIL IS REQUIRED TO SPAN OVER A DRAINAGE STRUCTURE, THE BELOW PROCEDURE IS TO BE FOLLOWED:
1. IF INLET REQUIRED 1 POST TO BE MISSING, MGS RAIL SHALL BE NESTED AND A POST LOCATED ON EITHER SIDE OF THE INLET.

DESIGN AGENCY
HNTB
DESIGNER ASEP
REVIEWER KKP 04/11/22
PROJECT ID 105743
SHEET P.26 TOTAL P.1274

CUY-77-11.41 - PART 1
MODEL: GN001B [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 6:35:32 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: smaln@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GN001.dgn

ROADWAY (CONT.)

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

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

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

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

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

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

ITEM 606 - IMPACT ATTENUATOR, TYPE 2 UNIDIRECTIONAL

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

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

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

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

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

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

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

1. FENCE HEIGHT SHALL BE INCREASED FROM 60" TO 72"
2. FENCE SHALL BE TOPPED WITH THREE STRANDS OF BARBED WIRE ATTACHED TO 12" TALL ANGLED ARM EXTENSIONS
3. FENCE POSTS, HARDWARE AND VINYL-COATED CHAIN LINK FABRIC SHALL BE MEDIUM GREEN COLOR.
4. LINE POSTS SHALL BE: GRADE 2, 2.375" O.D., 0.154" WALL THICKNESS, 50,000 PSI YIELD STRENGTH. LINE POSTS SHALL BE EMBEDDED 36" BELOW GROUND.
5. END AND CORNER POSTS SHALL BE: GRADE 2, 2.875" O.D., 0.203" WALL THICKNESS, 50,000 PSI YIELD STRENGTH. END AND CORNER POSTS SHALL BE EMBEDDED 48" BELOW GROUND.
6. ALL FENCE POSTS SHALL BE ENCASED IN CONCRETE. LINE POST ENCASEMENT SHALL BE 12" DIAMETER, 42" DEEP. END AND CORNER POST ENCASEMENT SHALL BE 15" DIAMETER, 54" DEEP.
7. SEE "ROW FENCE DETAIL", SHEETS P.1178-P.1189 FOR ADDITIONAL DETAILS.

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

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

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

- THE 1/2" DIAMETER HIGH STRENGTH THREADED ANCHORS AND NUTS SHALL MEET THE MATERIAL REQUIREMENTS SPECIFIED IN THE STANDARD DRAWING FOR ADHESIVE CONCRETE ANCHORS BUT SHALL BE CAST IN PLACE WITH A 7" MINIMUM EMBEDMENT LENGTH. HEADED HIGH-STRENGTH BOLTS WITH A 2" MINIMUM THREADED LENGTH AND A 7" MINIMUM EMBEDMENT LENGTH MAY BE USED INSTEAD OF 9" LONG HIGH-STRENGTH THREADED ROD.

- THE HOLES IN THE 1" THICK BASE PLATES FOR 1/2" DIAMETER HIGH STRENGTH THREADED ANCHORS SHALL BE UPSIZED FROM 11/16" DIAMETER TO 5/8" DIAMETER.

- TEMPLATES SHALL BE USED TO ACCURATELY SET THE ANCHORS IN THE PROPOSED RETAINING WALL CAP AND MAINTAIN THEIR POSITION DURING CONCRETE PLACEMENT.

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

ITEM 622 - BARRIER, MISC: CONCRETE BARRIER END SECTION, TYPE C

BARRIER, MISC: CONCRETE BARRIER END SECTION, TYPE C SHALL FOLLOW THE STANDARD CONSTRUCTION DRAWING RM-4.6 (TYPE B1) BUT SHALL TRANSITION FROM 66" RATHER THAN 57".

THE REINFORCING STEEL SHALL BE MODIFIED TO ACCOUNT FOR THE ADDITIONAL BARRIER HEIGHT. HORIZONTAL BAR SPACING SHALL BE ADJUSTED WITHIN THE TRANSITION AREAS AND VERTICAL REINFORCEMENT LENGTHS EXTENDED. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILING THE BARRIER TRANSITIONS AND REINFORCEMENT LAYOUTS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING REINFORCEMENT.

ITEM 623 - MONUMENT MISC: MONUMENT REFERENCING

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

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

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

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

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

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

ITEM 623 MONUMENT MISC: MONUMENT REFERENCING 8 EACH

ITEM 623 - CONSTRUCTION LAYOUT STAKES, AS PER PLAN

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

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

ITEM 623 - MONUMENT ASSEMBLY, AS PER PLAN

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

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

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

ITEM 623 MONUMENT ASSEMBLY, AS PER PLAN 8 EACH

MEDIAN BARRIER REMOVAL

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

HARVARD ROAD RAMP B-2 REPAIR QUANTITIES

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR ROADWAY AND PAVEMENT IMPACTS ALONG THE SOUTHBOUND ENTRANCE RAMP FROM HARVARD ROAD (RAMP B-2) DUE TO THE RELOCATION OF THE 36" WATERMAIN UNDER I-77.

ITEM 202 PAVEMENT REMOVED	26 SY
ITEM 202 GUARDRAIL REMOVED	25 FT
ITEM 204 SUBGRADE COMPACTION	26 SY
ITEM 304 AGGREGATE BASE	5 CY
ITEM 452 12" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	26 SY
ITEM 608 GUARDRAIL, TYPE MGS	25 FT
ITEM 609 CURB, TYPE 2-A	20 FT

EROSION CONTROL

SEEDING AND MULCHING

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

ITEM 659, SOIL ANALYSIS TEST	2	EACH
ITEM 659, TOPSOIL	15047	CY
ITEM 659, REPAIR SEEDING AND MULCHING	6778	SY
ITEM 659, INTER-SEEDING	6778	SY
ITEM 659, COMMERCIAL FERTILIZER	18.90	TON
ITEM 659, LIME	28.01	ACRES
ITEM 659, WATER	750	M. GAL.
ITEM 659, MOWING	305	M. SF

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

PAVEMENT

CONTRACTION JOINTS IN CONCRETE PAVEMENT OR BASE WIDENING

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

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

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

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

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

REPLACE TABLE 302-02-1 WITH THE FOLLOWING:

TABLE 302.02-1 MIX COMPOSITION

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

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

GENERAL NOTES

DESIGN AGENCY
HNTB

DESIGNER EAP
REVIEWER KKP 02/15/22
PROJECT ID 105743
SHEET P.27 TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: GN2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 10:27:58 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GN001.dgn

MAINTENANCE OF TRAFFIC

ITEM 614, MAINTAINING TRAFFIC

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

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

GRANT AVENUE (PRE-PHASE, 2027)
A MINIMUM OF 2 LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 60 CALENDAR DAYS WHEN THE SOUTH CURB LANE MAY BE CLOSED PER MT-95.40 TO COMPLETE BRIDGE REPAIRS AND CURB RAMP WORK ALONG THE SOUTH EDGE OF GRANT AVENUE. DURING THE CURB LANE CLOSURE THE SOUTH SIDEWALK SHALL BE CLOSED AND PEDESTRIAN TRAFFIC DETOURED TO THE CURB LANE. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE LANE REMAIN CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT. IN ADDITION RAMP A2 MAY BE CLOSED FOR A PERIOD NOT TO EXCEED 30 CALENDAR DAYS CONCURRENTLY TO THE CURB LANE CLOSURE. TRAFFIC SHALL BE DETOURED AS SHOWN ON SHEET 64. RAMP A2 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP B2 AND A DISINCENTIVE OF $2000 PER DAY SHALL BE ASSESSED FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED BEYOND THE SPECIFIED LIMIT.

GRANT AVENUE (PHASE 1B)
A MINIMUM OF 2 LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 60 CALENDAR DAYS WHEN THE NORTH CURB LANE OF GRANT AVENUE MAY BE CLOSED PER MT-95.40 TO COMPLETE BRIDGE REPAIRS AND CONSTRUCTION OF RAMP A3. DURING THE CURB LANE CLOSURE THE NORTH SIDEWALK SHALL BE CLOSED AND PEDESTRIAN TRAFFIC DETOURED TO THE CURB LANE. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE LANE REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

GRANT AVENUE (PHASE 3B)
A MINIMUM OF 2 LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 60 CALENDAR DAYS WHEN THE NORTH CURB LANE OF GRANT AVENUE MAY BE CLOSED PER MT-95.40 TO COMPLETE BRIDGE REPAIRS AND CONSTRUCTION OF RAMP A4. DURING THE CURB LANE CLOSURE THE NORTH SIDEWALK SHALL BE CLOSED AND PEDESTRIAN TRAFFIC DETOURED TO THE CURB LANE . A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY LANES REMAIN CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

GRANT AVENUE SOUTHBOUND EXIT (RAMP A3, PRE-PHASE, 2027)
EXISTING TRAFFIC LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 30 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.63. RAMP A3 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP B3 (HARVARD AVENUE SB EXIT). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

GRANT AVENUE SOUTHBOUND EXIT (RAMP A3)
EXISTING TRAFFIC LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 60 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.63. RAMP A3 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP B3 (HARVARD AVENUE SB EXIT). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

GRANT AVENUE NORTHBOUND ENTRANCE (RAMP A4)
A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 60 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.62. RAMP A4 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP B4 (HARVARD AVENUE NB ENTRANCE) OR RAMP C3 (FLEET AVENUE NB ENTRANCE). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

HARVARD AVENUE
ALL EXISTING LANES SHALL REMAIN OPEN TO TRAFFIC.

HARVARD AVENUE SOUTHBOUND EXIT (RAMP B3, PRE-PHASE, 2027)
EXISTING TRAFFIC LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 30 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.65. RAMP B3 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP A3 (GRANT AVENUE SB EXIT) OR RAMP C2 (FLEET AVENUE SB EXIT). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

HARVARD AVENUE SOUTHBOUND EXIT (RAMP B3)
EXISTING TRAFFIC LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 60 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.65. RAMP B3 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP A3 (GRANT AVENUE SB EXIT) OR RAMP C2 (FLEET AVENUE SB EXIT). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

HARVARD AVENUE SOUTHBOUND ENTRANCE (RAMP B2, PRE-PHASE, 2027)
A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 30 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.62. RAMP B2 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP A2 (GRANT AVENUE SB ENTRANCE). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

HARVARD AVENUE SOUTHBOUND ENTRANCE (RAMP B2)
A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 60 CALENDAR DAYS IN PHASE 1, AND 30 CALENDAR DAYS IN PHASE 3, WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.62. RAMP B2 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP A2 (GRANT AVENUE SB ENTRANCE). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

HARVARD AVENUE NORTHBOUND EXIT (RAMP B1)
EXISTING TRAFFIC LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 60 CALENDAR DAYS IN PHASE 3 AND 30 CALENDAR DAYS IN EITHER PREPHASE 1 OR PHASE 2, WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.63. RAMP B1 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP A1 (GRANT AVENUE NB EXIT). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

HARVARD AVENUE NORTHBOUND ENTRANCE (RAMP B4)
A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 60 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.65. RAMP B4 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP A4 (GRANT AVENUE NB ENTRANCE) OR RAMP C3 (FLEET AVENUE NB ENTRANCE). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

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

FLEET AVENUE SOUTHBOUND EXIT (RAMP C2)
EXISTING TRAFFIC LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 60 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.67. RAMP C2 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP B3 (HARVARD AVENUE SB EXIT), RAMP B4 (HARVARD AVENUE NB ENTRANCE) AND RAMP C1 (FLEET AVENUE NB EXIT). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

FLEET AVENUE NORTHBOUND EXIT (RAMP C1)
EXISTING TRAFFIC LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 60 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.66. RAMP C1 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP D1 (PERSHING AVENUE NB EXIT), RAMP D2 (PERSHING AVENUE SB ENTRANCE) AND RAMP C2 (FLEET AVENUE SB EXIT). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

FLEET AVENUE NORTHBOUND ENTRANCE (RAMP C3)
A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 60 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.68. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

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

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

CHARD AVENUE PEDESTRIAN BRIDGE/PEDESTRIAN TRAFFIC
THE CHARD AVENUE PEDESTRIAN BRIDGE SHALL REMAIN OPEN AND OPERATIONAL UNTIL THE ENGINEER PROVIDES PERMISSION TO CLOSE THE BRIDGE AND DETOUR PEDESTRIAN TRAFFIC PER SHEET P.81. IT IS THE INTENT OF THE PROJECT TO COMPLETE THE NEW CONNECTION FROM MORGANA RUN TRAIL/EAST 49TH STREET TO EAST 48TH STREET TO SIGNIFICANT COMPLETION PRIOR TO CLOSING/DEMOLISHING CHARD ROAD PEDESTRIAN BRIDGE TO MINIMIZE PEDESTRIAN DETOUR DURATIONS. DUE TO VERTICAL CLEARANCES THE CHARD ROAD PEDESTRIAN BRIDGE SUPERSTRUCTURE SHALL BE REMOVED PRIOR TO SHIFTING TRAFFIC LANES WESTWARD AND IS SHOWN REMOVED IN PHASE 1B WHEN RAMP C2 IS CLOSED. DURING PHASE 3 THE TRAIL UNDER I.R. 77 MAY BE CLOSED AND TRAFFIC DETOURED PER SHEET P.81 TO COMPLETE THE EAST END OF THE NEW MORGANA STRUCTURE. THE EXISTING TRAILHEAD FROM EAST 49TH STREET TO MORGANA RUN TRAIL SHALL REMAIN OPEN AT ALL TIMES.

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

PERSHING AVENUE
ALL EXISTING LANES SHALL REMAIN OPEN TO TRAFFIC.

PERSHING AVENUE SOUTHBOUND ENTRANCE (RAMP D2, PRE-PHASE, 2027)
A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 30 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.70. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

PERSHING AVENUE SOUTHBOUND ENTRANCE (RAMP D2)
A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 60 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.70. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

PERSHING AVENUE NORTHBOUND EXIT (RAMP D1)
A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 60 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.69. RAMP D1 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP E1 (BROADWAY AVENUE NB EXIT) OR RAMP C1 (FLEET AVENUE NB EXIT. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

BROADWAY AVENUE
ALL EXISTING LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 90 CALENDAR DAYS EACH WHEN THE CURB LANE OF BROADWAY AVENUE EASTBOUND MAY BE CLOSED PER MT-95.40. CURB LANE CLOSURE SHALL BE IN PLACE CONCURRENTLY WITH THE PERMITTED RAMP CLOSURE OF RAMP E1. DURING THE CURB LANE CLOSURE THE SIDEWALK ADJACENT THE LANE CLOSURE SHALL BE CLOSED AND PEDESTRIAN TRAFFIC DETOURED PER MT-110.10 VIA THE EXISTING SIGNALIZED CROSSINGS OF BROADWAY AVENUE AT DILLE AVENUE AND FINN AVENUE. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY LANES REMAIN CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

BROADWAY AVENUE NORTHBOUND EXIT (RAMP E1)
EXISTING TRAFFIC LANES SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 90 CALENDAR DAYS WHEN THE RAMP MAY BE CLOSED AND TRAFFIC DETOURED AS SHOWN ON SHEET P.71. RAMP E1 SHALL NOT BE CLOSED CONCURRENTLY WITH RAMP D1 (PERSHING AVENUE NB EXIT). A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $2000 PER DAY FOR EACH CALENDAR DAY THE RAMP REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

(#) - OFF PEAK HOURS ON LOCAL STREETS ARE MONDAY TO FRIDAY 9 AM TO 3 PM OR AFTER 6 PM, AND SATURDAY AND SUNDAY 9 AM TO 7 PM ALL SUBJECT TO LOCAL ORDINANCES.

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

RAMP NO.	PHASE	CLOSURE DURATION (CALENDAR DAYS)	DISINCENTIVE ($ PER DAY)
RAMP A2	PRE-PHASE 1	30	$2000
RAMP A3	PRE-PHASE 1	30	$2000
RAMP A3	PHASE 1	60	$2000
RAMP A4	PRE-PHASE 1	30	$2000
RAMP A4	PHASE 3	60	$2000
RAMP B1	PRE-PHASE 1 OR 2	30	$2000
RAMP B1	PHASE 3	60	$2000
RAMP B2	PRE-PHASE 1	30	$2000
RAMP B2	PHASE 1	60	$2000
RAMP B2	PHASE 3	30	$2000
RAMP B3	PRE-PHASE 1	30	$2000
RAMP B3	PHASE 1	60	$2000
RAMP B4	PHASE 3	60	$2000
RAMP C1	PHASE 3	60	$2000
RAMP C2	PHASE 1	60	$2000
RAMP C3	PHASE 3	60	$2000
RAMP D1	PHASE 3	60	$2000
RAMP D2	PRE-PHASE 1	30	$2000
RAMP D2	PHASE 1	60	$2000
RAMP E1	PHASE 3	90	$2000

GENERAL:

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

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

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

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

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

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

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

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

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

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

NOTICE OF CLOSURE SIGNS (W20-H14) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD, PEDESTRIAN BRIDGE, OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.

MAINTENANCE OF TRAFFIC GENERAL NOTES

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.29 TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: Sheet1 (Sheet) PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 4:37:33 PM USER: kperkins
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MN001.dgn

SEQUENCE OF CONSTRUCTION (CONT.)

PHASE 2 - (2029) (SEE SHEETS P.147 -P.160)

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

WORK THIS PHASE:

I.R. 77 SOUTHBOUND
-REMOVE PORTIONS OF THE EXISTING PAVEMENT AND MEDIAN BARRIER.
-COMPLETE CONSTRUCTION OF NEW SOUTHBOUND PAVEMENT.
-CONSTRUCT NEW MEDIAN BARRIER. OMIT PORTIONS PER THE PLANS TO ACCOMMODATE TEMPORARY CROSSOVERS.
-CONSTRUCT MEDIAN HIGHWAY LIGHTING.
-COMPLETE ITS CONDUITS FOR CCTV CAMERAS.
-PLACE SACRIFICIAL ASPHALT SURFACE COURSE.
-COMPLETE PORTIONS OF THE PROPOSED DRAINAGE SYSTEM.
-REMOVE PORTIONS OF THE EXISTING MORGANA RUN BRIDGE.
-COMPLETE PORTIONS OF THE NEW MORGANA RUN PEDESTRIAN UNDERPASS.
-REMOVE PORTIONS OF THE I.R. 77 OVERPASS AT RUFFINI COURT.
-CONSTRUCT PROPOSED OVERHEAD SIGN TRUSS SUPPORTS THAT SPAN SOUTHBOUND I.R. 77.
-BEGIN CONSTRUCTION OF NEW 36" WATER MAIN NEAR HARVARD (OPTIONAL WILL NOT BE COMPLETED UNTIL PHASE 3)

I.R. 77 NORTHBOUND
-REMOVE PORTIONS OF THE EXISTING PAVEMENT AND MEDIAN BARRIER.
-BEGIN CONSTRUCTION/COMPLETE PORTIONS OF THE NEW NORTHBOUND PAVEMENT AND DRAINAGE SYSTEM.
-CONSTRUCT MEDIAN HIGHWAY LIGHTING.
-PLACE SACRIFICIAL ASPHALT SURFACE COURSE.
-COMPLETE PORTIONS OF THE PROPOSED DRAINAGE SYSTEM.
-REMOVE PORTIONS OF THE EXISTING MORGANA RUN BRIDGE.
-COMPLETE PORTIONS OF THE NEW MORGANA RUN PEDESTRIAN UNDERPASS.
-REMOVE PORTIONS OF THE I.R. 77 OVERPASS AT RUFFINI COURT.
-BEGIN CONSTRUCTION OF NEW 36" WATER MAIN NEAR HARVARD (OPTIONAL WILL NOT BE COMPLETED UNTIL PHASE 3)

MAINTENANCE OF TRAFFIC:

I.R.77 SOUTHBOUND
-MAINTAIN TWO LANES OF TRAFFIC ON THE NEW SOUTHBOUND PAVEMENT. ADDITIONAL OFF PEAK LANE CLOSURES PER THE PLCS MAY BE UTILIZED WITH APPROVAL OF THE ENGINEER.
-UTILIZE FULL CLOSURES PER SHEETS P.72 -P.75 AND THE "I.R. 77 FULL CLOSURE" NOTE ON THIS SHEET TO COMPLETE PLACEMENT OF OVERHEAD SIGN TRUSS SUPPORTS AS NOTED IN THE PLANS.

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

SEQUENCE OF CONSTRUCTION (CONT.)

PHASE 3 (2030) (SEE SHEETS P.161 -P.200)

WORK THIS PHASE:

I.R. 77
-REMOVE THE REMAINING PORTION OF THE EXISTING MAINLINE PAVEMENT AND NORTHBOUND INTERCHANGE RAMPS.
-REMOVE/ABANDON PORTIONS OF THE EXISTING DRAINAGE SYSTEM THAT ARE NO LONGER NEEDED.
-REMOVE EXISTING LIGHTING, TRAFFIC CONTROL AND OTHER INCIDENTALS WITHIN THE PHASE WORK LIMITS OR OTHERWISE IDENTIFIED IN THE PLANS.
-COMPLETE CONSTRUCTION OF NEW NORTHBOUND MAINLINE PAVEMENT AND INTERCHANGE RAMPS.
-COMPLETE REMAINING PORTIONS OF THE PROPOSED DRAINAGE SYSTEM.
-COMPLETE RETAINING WALLS ALONG NB I.R. 77.
-REMOVE REMAINING PORTIONS OF THE EXISTING MORGANA RUN BRIDGE AND COMPLETE THE NEW PEDESTRIAN UNDERPASS.
-COMPLETE CONSTRUCTION OF THE NEW SLAVIC VILLAGE DOWNTOWN CONNECTOR TRAIL (SVDC) FROM EAST 48TH STREET TO THE MORGANA RUN TRAIL/EAST 49TH STREET TRAILHEAD.
-REMOVE REMAINING PORTIONS OF THE I.R. 77 OVERPASS AT RUFFINI COURT.
-COMPLETE REHABILITATION OF EX. RETAINING WALL AND RIGHT-OF-WAY FENCE ALONG EAST 49TH STREET.
-COMPLETE 36" WATERLINE CONSTRUCTION NEAR HARVARD AVENUE.

MAINTENANCE OF TRAFFIC:

I.R. 77 SOUTHBOUND
-SAME AS PHASE 2.
-CLOSE RAMP B2 (HARVARD AVENUE SB ENTRANCE) TO COMPLETE NEW 36" WATERLINE CONNECTION TO EXISTING WATERLINE. CLOSE OUTSIDE SHOULDER OF MAINLINE I.R. 77 PER MT-95.45.

I.R. 77 NORTHBOUND
-MAINTAIN TWO LANES OF TRAFFIC USING CONTRAFLOW OPERATION ON THE PREVIOUSLY CONSTRUCTED PERMANENT PAVEMENT AND TEMPORARY CROSSOVERS. ADDITIONAL OFF PEAK LANE CLOSURES PER THE PLCS MAY BE UTILIZED WITH APPROVAL OF THE ENGINEER.
-UTILIZE FULL CLOSURES PER SHEETS P.76 -P.80 AND THE "I.R. 77 FULL CLOSURE" NOTE ON THE PREVIOUS SHEET TO COMPLETE OVERHEAD SIGN TRUSS SUPPORTS AS NOTED IN THE PLANS.

INTERCHANGE RAMP SEQUENCE OF CONSTRUCTION
MAINTENANCE OF TRAFFIC PLANS FOR THE PROJECT DEPICT THREE SUBPHASES DURING PHASE 3. SOUTHBOUND I.R. 77 REMAINS THE SAME IN ALL THREE SUBPHASES. NORTHBOUND I.R. 77 HAS THREE CONDITIONS SHOWN IN THE SUBPHASES. PHASE 3A SHOWS THE NORTHBOUND CONTRAFLOW MOT SCENARIO WITH ALL EXISTING INTERCHANGE RAMPS OPEN AND USING EXISTING PAVEMENT TO MAINTAIN RAMP TRAFFIC (EXCEPT RAMPS B4 AND C1 SEE BELOW FOR MORE DETAIL) PHASE 3B SHOWS THE SAME MAINLINE CONTRAFLOW SCENARIO BUT ALL THE RAMPS ARE SHOWN CLOSED. CLOSURE OF ALL RAMPS CONCURRENTLY WILL NOT BE PERMITTED. SUBPHASE 3B DEPICTS THE MOT COUNTERMEASURES REQUIRED AT A RAMP DURING ALLOWABLE CLOSURES. PHASE 3C SHOWS THE MAINLINE CONTRAFLOW SCENARIO AND THE MOT FOR INTERCHANGE RAMPS WHEN THEY ARE REOPENED AND TRAFFIC IS DRIVING ON PROPOSED COMPLETED PAVEMENTS PRIOR TO PROJECT COMPLETION. BASED ON SEQUENCING OF RAMPS ELEMENTS FROM PHASE 3A, 3B AND 3C MAY BE IN PLACE CONCURRENTLY. EACH RAMP WILL HAVE A 60 DAY CLOSURE AFTER WHICH THE RAMPS ARE REOPENED UNLESS NOTED OTHERWISE. A SUGGESTED RAMP CLOSURE SEQUENCE IS INCLUDED BELOW.

GROUP 1 CLOSURES
RAMP B4 (HARVARD AVENUE NB ENTRANCE) (*)
RAMP C1 (FLEET AVENUE NB EXIT) (*)
*DUE TO THE ELEVATION DIFFERENTIAL AT THE PHASE JOINT THIS RAMP WILL NOT OPEN IN A PHASE 3A CONDITION. ONCE THE OVERWINTER PERIOD IS COMPLETE AND PHASE 3 CONTRAFLOW IS TO BE IMPLEMENTED THE RAMP SHALL CLOSE AND BE CONSTRUCTED.
RAMP E1 (BROADWAY AVENUE NB EXIT**)

GROUP 2 CLOSURES
RAMP A4 (GRANT AVENUE NB ENTRANCE)
RAMP B1 (HARVARD AVENUE NB EXIT)
RAMP E1 (BROADWAY AVENUE NB EXIT**)

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

** - RAMP CAN BE CLOSED FOR 90 DAYS TOTAL. MUST REOPEN PRIOR TO START OF GROUP 3 RESTRICTIONS.

RAMP B2
-DURING ALLOWABLE CLOSURE PERIOD CLOSE THE RAMP PER MT-98.30 AND MT-101.60. DETOUR TRAFFIC PER SHEET 62.

SEQUENCE OF CONSTRUCTION (CONT.)

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

WORK THIS PHASE:

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

MAINTENANCE OF TRAFFIC:

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

WORK ZONE PAVEMENT MARKINGS, SPRAY THERMOPLASTIC (648.02)

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

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

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

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

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

ITEM 614 WORK ZONE LANE LINE, CLASS I, 6", AS PER PLAN (MILE)
ITEM 614 WORK ZONE EDGE LINE, CLASS I, 6", AS PER PLAN (MILE)
ITEM 614 WORK ZONE CHANNELIZING LINE, CLASS I, 12", AS PER PLAN (FT)

ITEM 614 WORK ZONE DOTTED LINE, CLASS I, AS PER PLAN (FT)
ITEM 614 WORK ZONE LANE ARROW, CLASS I, AS PER PLAN (EACH)
ITEM 614 WORK ZONE STOP LINE, CLASS I, AS PER PLAN (FT)

DUST CONTROL

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

ITEM 616, WATER 870 M. GAL.

ITEM 614, REPLACEMENT SIGN

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

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

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

NOTIFICATION OF TRAFFIC RESTRICTIONS

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

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

NOTIFICATION OF TRAFFIC RESTRICTIONS TIME TABLE

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

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE. IN ADDITION THE CONTRACTOR SHALL ALSO SUPPLY NOTIFICATION FOR THE CHARD PEDESTRIAN BRIDGE CLOSURE PER THE ROADWAY/RAMP CLOSURE NOTIFICATION TIME TABLE.

ITEM 614, WORK ZONE CROSSOVER LIGHTING SYSTEM

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

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

PAYMENT WILL BE MADE AT THE UNIT PRICE PER EACH FOR ITEM 614, WORK ZONE CROSSOVER LIGHTING SYSTEM THROUGHOUT ALL PHASES OF WORK WHEN THE CROSSOVER ROADWAYS ARE USED. A QUANTITY OF 2 EACH HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR COMPLETION OF THE WORK ZONE CROSSOVER LIGHTING SYSTEMS.

MAINTENANCE OF TRAFFIC GENERAL NOTES

DESIGN AGENCY
HNTB

DESIGNER MTD
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.31 TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: Unnamed Plan - Sheet 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 2:53:00 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kemays@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MN001.dgn

PHASE	ROAD	DIR.	BEGIN STA.	END STA.	202 WEARING COURSE REMOVED SY	254 PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5") SY	407 NON-TRACKING TACK COAT (0.085 GAL/SY) GAL	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN (T=1.25") CY	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN (T=1.5") CY	614 INCREASED BARRIER DELINEATION FT	614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS (UNIDIRECTIONAL) EACH	614 WORK ZONE IMPACT ATTENUATOR, MISC.:48" WIDE HAZARD (UNIDIRECTIONAL) EACH	614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC CY	614 BARRIER REFLECTOR, TYPE 1, 1 WAY EACH	614 BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL EACH	614 BARRIER REFLECTOR, TYPE 2, 1 WAY EACH	614 OBJECT MARKER, ONE WAY EACH	614 OBJECT MARKER, TWO WAY EACH	614 WORK ZONE GORE MARKING, CLASS II, 740.06, TYPE I FT	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A SY	622 PORTABLE BARRIER, 50", AS PER PLAN A FT	622 PORTABLE BARRIER, 50", AS PER PLAN B FT	622 PORTABLE BARRIER, UNANCHORED FT	622 PORTABLE BARRIER, ANCHORED FT	630 SIGN, TEMPORARY OVERLAY SF
WORK ZONE PORTABLE BARRIER / BARRIER DELINEATION / IMPACT ATTENUATORS																									
PRE-PHASE 1	IR-77	NB	48+00	55+00							1			15			15						700			
PRE-PHASE 1	IR-77	SB	50+00	65+50							1			32			32						1550			
PRE-PHASE 1	IR-77	SB	74+00	85+00								1		23			23						1100			
PRE-PHASE 1	RAMP A3	SB	80+40	85+00										11			11						460			
PRE-PHASE 1	IR-77	SB	83+50	110+66							1			56			56						2720			
PRE-PHASE 1	RAMP A3 (*)	SB	85+00	88+78										9			9						380			
PRE-PHASE 1	RAMP B2	SB	108+00	110+66							1			7			7						270			
PRE-PHASE 1	RAMP B2 (*)	SB	97+50	108+00										22			22						1050			
PRE-PHASE 1	IR-77	SB	108+00	121+00										27			27						1300			
PRE-PHASE 1	RAMP B3	SB	117+90	121+00								1		8			8						310			
PRE-PHASE 1	RAMP B3 (*)	SB	121+00	128+50										16			16						750			
PRE-PHASE 1	IR-77	SB	119+50	150+00							1			62			62						3050			
PRE-PHASE 1	IR-77	SB	156+00	196+00							1			81			81						4000			
PRE-PHASE 1	RAMP D2 (*)	SB	178+50	192+00										28			28						1350			
PRE-PHASE 1	IR-77	SB	192+00	204+50							1			26			26						1250			
PRE-PHASE 1	IR-77	NB	85+00	100+00							1			31			31						1500			
PRE-PHASE 1	IR-77	NB	76+00	89+00										27			27						1300			
PRE-PHASE 1	IR-77	NB	106+50	119+00							1			26			26						1250			
PRE-PHASE 1	RAMP B4	NB	114+33	119+00							1			11			11						470			
PRE-PHASE 1	IR-77	NB	132+00	147+50							1			32			32						1550			
PRE-PHASE 1	RAMP C3	NB	146+00	147+50							1			4			4						150			
PRE-PHASE 1	IR-77	NB	163+25	170+50										16			16							730		
PRE-PHASE 1	IR-77	NB	190+00	208+40								1		38			38						1840			
PRE-PHASE 1	RAMP D1	NB	190+00	192+80										7			7						280			
PRE-PHASE 1	IR-77	NB	217+92	221+00								1		8			8						310			
PRE-PHASE 1	RAMP J4	NB	217+92	220+50										7			7						260			
PRE-PHASE 1	GRANT	EB	18+23	21+31										8			8						310			
RUMBLE STRIP REMOVAL																									
PRE-PHASE 1	IR-77	NB	69+50	83+80		398	34	17																	
PRE-PHASE 1	IR-77	NB	83+80	107+00		645	55	27																	
PRE-PHASE 1	IR-77	NB	106+20	121+90		437	38	19																	
PRE-PHASE 1	IR-77	NB	121+90	130+50		239	21	10																	
PRE-PHASE 1	IR-77	NB	131+45	152+55		587	50	25																	
PRE-PHASE 1	IR-77	NB	152+55	169+22		464	40	20																	
PRE-PHASE 1	IR-77	NB	170+50	174+94		124	11	6																	
PRE-PHASE 1	IR-77	NB	176+25	183+00		188	16	8																	
PRE-PHASE 1	IR-77	NB	190+25	204+00		382	33	16																	
PRE-PHASE 1	IR-77	NB	204+23	215+45		312	27	13																	
PRE-PHASE 1	IR-77	NB	218+50	226+00		209	18	9																	
SIGN OVERLAYS																									
PRE-PHASE 1	GRANT	EB	18+75																					9	
PRE-PHASE 1	GRANT	WB	18+75																					9	
PRE-PHASE 1	IR-77	SB	121+60																					12	
PRE-PHASE 1	IR-77	SB	114+00																					12	
PRE-PHASE 1	IR-77	SB	86+75																					12	
PRE-PHASE 1	HARVARD	EB	14+25																					9	
PRE-PHASE 1	HARVARD	WB	14+25																					9	
PRE-PHASE 1	IR-77	SB	171+90																					12	
PRE-PHASE 1	IR-77	SB	152+50																					12	
PRE-PHASE 1	IR-77	SB	132+90																					12	
PRE-PHASE 1	IR-77	SB	121+60																					12	
PRE-PHASE 1	GRANT	EB	21+00																					9	
PRE-PHASE 1	GRANT	WB	21+00																					9	
PRE-PHASE 1	IR-77	NB	69+25																					12	
SUBTOTALS FOR PRE-PHASE 1 CARRIED TO SHEET 47						3985	343	170			12	4		638			638					29460	730	150	
(*) - PB PLACED FOR ALLOWABLE RAMP CLOSURE																									
WORK ZONE PORTABLE BARRIER / BARRIER DELINEATION / IMPACT ATTENUATORS																									
1A	IR-77	NB	69+50	74+50						1000					12		11			500					
1A	IR-77	NB	74+50	77+00											6		25				250				
1A	IR-77	NB	77+00	89+00											50					1200					
1A	IR-77	NB	89+00	96+00											30		15				700				
1A	IR-77	NB	96+00	106+00											42		21			1000					
SUBTOTALS FOR PHASE 1A CARRIED TO SHEET 47										1000					134		78			2700	950				

MODEL: Unnamed Plan-6 - Plan 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 3:28:22 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kemays@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MS001.dgn

MAINTENANCE OF TRAFFIC SUBSUMMARY

DESIGN AGENCY
HNTB

DESIGNER
JEM

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.43 | TOTAL P.1274

PHASE	ROAD	DIR.	BEGIN STA.	END STA.	202 WEARING COURSE REMOVED SY	254 PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5") SY	407 NON-TRACKING TACK COAT (0.085 GAL/SY) GAL	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN (T=1.25") CY	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN (T=1.5") CY	614 INCREASED BARRIER DELINEATION FT	614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS (UNIDIRECTIONAL) EACH	614 WORK ZONE IMPACT ATTENUATOR, MISC.:48" WIDE HAZARD (UNIDIRECTIONAL) EACH	614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC CY	614 BARRIER REFLECTOR, TYPE 1, 1 WAY EACH	614 BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL EACH	614 BARRIER REFLECTOR, TYPE 2, 1 WAY EACH	614 OBJECT MARKER, ONE WAY EACH	614 OBJECT MARKER, TWO WAY EACH	614 WORK ZONE GORE MARKING, CLASS II, 740.06, TYPE I FT	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A SY	622 PORTABLE BARRIER, 50", AS PER PLAN A FT	622 PORTABLE BARRIER, 50", AS PER PLAN B FT	622 PORTABLE BARRIER, UNANCHORED FT	622 PORTABLE BARRIER, ANCHORED FT	630 SIGN, TEMPORARY OVERLAY SF
WORK ZONE PORTABLE BARRIER / BARRIER DELINEATION / IMPACT ATTENUATORS																									
1A	IR-77	NB	106+00	130+00										98			49				2400				
1A	IR-77	NB	130+00	140+00										42			21			1000					
1A	IR-77	NB	140+00	143+00										14			7				300				
1A	IR-77	NB	143+00	169+00										106			53			2600					
1A	IR-77	NB	169+00	171+00										10			5				200				
1A	IR-77	NB	171+00	173+00										10			5			200					
1A	IR-77	NB	173+00	184+50										32			16				1150				
1A	IR-77	NB	184+50	202+00										88			44			1750					
1A	IR-77	SB	202+00	226+00						4800		1					49			2400					
1A	IR-77	SB	72+50	85+60										28		28						1310			
1A	IR-77	SB	80+39	85+60								1		12		12						530			
1A	IR-77	SB	83+50	109+10						2070	1			11		11						2560			
1A	IR-77	NB	86+70	100+50						650	1			16		16						1380			
1A	IR-77	SB	106+64	122+50							1			33		33						1590			
1A	IR-77	NB	109+00	117+50							1			18		18						850			
1A	IR-77	SB	118+90	122+50								1		9		9						360			
1A	IR-77	SB	118+90	125+00							1			14		14						610			
1A	IR-77	SB	125+00	129+50							1			10		10						450			
1A	IR-77	SB	129+00	153+37								1		50		50						2440			
1A	IR-77	NB	138+00	145+00							1			15		15						700			
1A	IR-77	SB	151+14	153+37							1			6		6						230			
1A	IR-77	SB	152+83	169+50										48		48						1670			
1A	IR-77	SB	169+50	177+00										48		48							750		
1A	IR-77	SB	177+00	188+77						1277	1					27						1180			
1A	IR-77	SB	192+00	197+00							1			11		11						500			
1A	IR-77	SB	192+00	214+53							1			47		47						2260			
1A	IR-77	SB	204+00	214+53						1053	1					23						1060			
1A	IR-77	NB	194+00	205+00							1			23		23						1100			
1A	IR-77	NB	219+00	221+50							1			6		6						250			
1A	IR-77	SB	220+00	223+00						300		1				7						300			
1A	IR-77	SB	220+00	223+00						300						7						300			
1A	IR-77 (**)	SB	226+00								1														
1A	CROSSOVER (**)	SB	69+00	76+00							1											700			
1A	CROSSOVER (**)	SB	219+00	226+00																		700			
RUMBLE STRIP REMOVAL																									
1A	CROSSOVER	NB/SB	220+00	220+83		24	3	1																	
1A	CROSSOVER	NB/SB	225+25	226+00		21	2	1																	
1A	CROSSOVER	NB/SB	225+25	226+00		21	2	1																	
EXISTING BARRIER/GUARDRAIL DELINEATORS																									
1A	IR-77	NB	72+80	76+50												9	9								
1A	IR-77	NB	157+00	163+50												14	14								
1A	IR-77	NB	170+50	179+00												18	18								
1A	IR-77	NB	186+75	189+00												6	6								
1A	IR-77	NB	211+25	216+00												11	11								
1A	IR-77	NB	74+50	220+83										588			294								
WORK ZONE GORE MARKINGS																									
1A	CROSSOVER	NB/SB	223+00	226+00															100						
SUBTOTALS FOR PHASE 1A CARRIED TO SHEET 47						66	7	3		10450	16	5		588	805	58	821	249	100		7950	4050	23030	750		
(**) - BARRIER TO COMPLETE CONSTRUCTION OF CROSSOVERS. PER NOTES ON SHEETS 104 AND 116.																									
WORK ZONE PORTABLE BARRIER / BARRIER DELINEATION / IMPACT ATTENUATORS																									
1B	IR-77	SB	85+00	106+50										44			44						2150		
1B	IR-77	SB	122+00	130+00										17			17						800		
1B	IR-77	SB	151+00	159+00										17			17						800		
1B	IR-77	SB	176+00	192+00										33			33						1500	100	
1B	IR-77	SB	194+50	201+50						700	1						15						700		
1B	IR-77	SB	201+50	224+00								1		46			46						2250		
1B	IR-77	SB	220+00	224+00						400							9						400		
1B	GRANT AVE.	WB	16+59	21+07										10			10						450		
PHASE JOINT CROSSING DETAILS																									
1B	IR-77	SB	194+50	200+00			32						45												
WORK ZONE GORE MARKINGS																									
1B	CROSSOVER	NB/SB	224+00	228+00															100						
SUBTOTALS FOR PHASE 1B CARRIED TO SHEET 47							32			1100	1	1	45	167			191		100				9050	100	

MAINTENANCE OF TRAFFIC SUBSUMMARY

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.44 TOTAL P.1274

MODEL: Unnamed Plan-7 - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 3:28:53 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kemays@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MS001.dgn

PHASE	ROAD	DIR.	BEGIN STA.	END STA.	202 WEARING COURSE REMOVED (SY)	254 PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5") (SY)	407 NON-TRACKING TACK COAT (0.085 GAL/SY) (GAL)	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN (T=1.25") (CY)	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN (T=1.5") (CY)	614 INCREASED BARRIER DELINEATION (FT)	614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS (UNIDIRECTIONAL) (EACH)	614 WORK ZONE IMPACT ATTENUATOR, MISC.:48" WIDE HAZARD (UNIDIRECTIONAL) (EACH)	614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC (CY)	614 BARRIER REFLECTOR, TYPE 1, 1 WAY (EACH)	614 BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL (EACH)	614 BARRIER REFLECTOR, TYPE 2, 1 WAY (EACH)	614 OBJECT MARKER, ONE WAY (EACH)	614 OBJECT MARKER, TWO WAY (EACH)	614 WORK ZONE GORE MARKING, CLASS II, 740.06, TYPE I (FT)	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A (SY)	622 PORTABLE BARRIER, 50", AS PER PLAN A (FT)	622 PORTABLE BARRIER, 50", AS PER PLAN B (FT)	622 PORTABLE BARRIER, UNANCHORED (FT)	622 PORTABLE BARRIER, ANCHORED (FT)	630 SIGN, TEMPORARY OVERLAY (SF)			
PAVEMENT FOR MOT																													
	IR-77	NB	86+50	93+00																418								
	IR-77	NB	219+27	220+44																53								
	IR-77	NB/SB	74+90																	67								
	IR-77	NB/SB	110+00																	112								
	IR-77	SB	75+50	78+50																134								
	IR-77	SB	84+50	87+00																223								
	IR-77	SB	87+00	99+00																534								
	IR-77	SB	99+00	106+50																834								
	IR-77	SB	109+00	110+00																112								
	IR-77	SB	110+75	115+50																264								
	IR-77	SB	120+00	120+25																28								
	IR-77	SB	120+25	126+00																256								
	IR-77	SB	126+00	129+00																334								
	IR-77	SB	129+00	134+00																278								
	RUFFINI																			27								
	IR-77	SB	194+00																	23								
	IR-77	SB	196+00	199+50																195								
SUBTOTALS FOR PAVEMENT FOR MOT																				3892								
CROSSOVER INSTALLATION																												
SOUTH CROSSOVER			69+50	74+50		556	48						50															
NORTH CROSSOVER			220+83	225+40		889	76						80															
SUBTOTALS FOR CROSSOVER INSTALLATION						1445	124						130															
SACRIFICIAL SURFACE COURSE																												
PRE-PHASE	IR-77	SB	74+50	204+03		80597	6851	2799																				
PRE-PHASE	IR-77	SB	204+03	220+83		5040	429	175																				
PRE-PHASE	IR-77	SB	84+00	108+65		3053	260	106																				
PRE-PHASE	IR-77	SB	119+58	127+07		1118	96	39																				
PRE-PHASE	IR-77	SB	150+65	157+34		867	74	31																				
PRE-PHASE	IR-77	SB	165+60	192+13		2798	238	98																				
PRE-PHASE	IR-77	SB	201+50	213+75		1606	137	56																				
PRE-PHASE	IR-77	NB	74+50	220+83		28860	2454		1203																			
SUBTOTALS FOR SACRIFICIAL SURFACE COURSE INSTALLATION						123939	10539	3304	1203																			
PRE-PHASE 1 SUBTOTALS FROM SHEET 43						3985	343	170			12	4		638			638						29460	730	150			
PHASE 1A SUBTOTALS FROM SHEET 43										1000					134			78			2700	950					
PHASE 1A SUBTOTALS FROM SHEET 44						66	7	3		10450	16	5		588	805	58	821	249	100		7950	4050	23030	750			
PHASE 1B SUBTOTALS FROM SHEET 44							32			1100	1	1	45	167			191		100				9050	100			
PHASE 1C SUBTOTALS FROM SHEET 45							77			950	2		101	41	39		62	39			2850		1900				
PHASE 1 OVERLAYS SUBTOTALS FROM SHEET 45																									404		
PHASE 2 SUBTOTALS FROM SHEET 45										6634	3			14	432		60	241			11350	2300	600				
PHASE 3A SUBTOTALS FROM SHEET 46					1834		219			3465	4	3	557	523			891		300		600		12100	750			
PHASE 3B SUBTOTALS FROM SHEET 46											1			95			95						4380				
PHASE 3C SUBTOTALS FROM SHEET 46										3625	2	3		16			94						4280				
PHASE 3 OVERLAYS SUBTOTALS FROM SHEET 46																									162		
TOTALS CARRIED TO GENERAL SUMMARY					1834	129435	11341	3477	1203	27224	41	16	833	2082	1410	58	2852	607	500	3892	25450	7300	84800	2330	716			

MAINTENANCE OF TRAFFIC SUBSUMMARY

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER
JEM

REVIEWER
MTR 05/01/26

PROJECT ID
105743

SHEET P.47 TOTAL P.1274

MODEL: Unnamed Plan-10 - Plan 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 3:29:23 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kemays@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MS001.dgn

CLOSE SHOULDER PER MT-95.45 TO COMPLETE INSTALLATION OF ITS CONDUITS. LANE CLOSURES PER MT-95.30 AND THE PLCS WILL BE PERMITTED.

TO COMPLETE CONSTRUCTION OF NEW STORM SEWER MAIN CLOSE THE SHOULDER PER MT-95.45. OFF PEAK LANE CLOSURES PER THE PLCS WILL BE PERMITTED.

-55.4 - END PB

PB

IA

STA. 65+50

℄ EX. I.R. 77

MEET EX. ELW/BEGIN ELW - -39.9

MEET EX. LL/BEGIN LL - -28.5

STA. 72+00

STA. 74+00

-40.8 - BEGIN PB

-38.8 - ELW

-27.8 - LL

RAMP A2 (CLOSED*)

PB

LL

ELW

PC STA. 75+34.63

MATCH LINE STA. 63+00

64 65 66 67 68 69 70 71 72 73 74 75

**

MATCH LINE STA. 75+50

PT STA. 67+31.74

RAMP A1 (OPEN)

CLOSE LEFT TURN LANE OF RAMP A1 WITH DRUMS PER MT-98.28

EX. TRUSS TO REMAIN (DO NOT DISTURB)

BEGIN ELW/ MEET EX. ELW - 64.2

STA. 71+06

ELW

3+98

3+83

END ELW/MEET EX. ELW - 108.1

STA. 72+82

LA

Harvard Ave Newburgh Hts 3/4 MILE

EXIT 159A

Grant Ave Cuyahoga Hts

EXIT 158

R3-H60-30

GRANT AVE

EXISTING LANE USAGE SIGN TO BE COVERED

STA. 69+50

REMOVE EXISTING RUMBLE STRIPS ALONG NB OUTSIDE SHOULDER. SEE MOT TYPICALS FOR DETAILS.

NOTE: SEE SHEET P.48 FOR MOT TYPICAL SECTION
SEE SHEET P.85 FOR MOT LEGEND
SEE SHEET P.101 FOR GRANT AVE MOT PLAN
SEE SHEET P.202 FOR CROSSOVER DETAILS

* - SEE MOT NOTES FOR PERMITTED CLOSURES OF RAMP A2 TO COMPLETE BRIDGE AND CURB RAMP WORK ON GRANT AVENUE.

** - INSTALLATION OF MEDIAN CROSSOVER (STA. 69+50 TO STA. 74+50) TO TAKE PLACE IN PRE-PHASE 1. INSTALLATION USES A COMBINATION OF EXISTING LANE CLOSURES AND PHASE 1A LANE POSITIONS. SEE PHASE 1A SHEET P.104 FOR MORE DETAILS.

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PRE-PHASE 1
STA. 63+00 TO STA. 75+50

CUY-77-11.41 - PART 1

MODEL: CLP_I077_South - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 2:54:49 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kemays@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MP000.dgn

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.87 TOTAL P.1274

MODEL: CLP_I077 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 2:55:45 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kemays@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MP000.dgn

CUY-77-11.41 - PART 1

* - CLOSE AND DETOUR RAMP A3 AS SHOWN IN PHASE 1B TO COMPLETE STORM SEWER WORK BETWEEN D12 AND D27. RESTORE THE TRENCH WITH ITEM 615.

CLOSE RAMP A4 PER MT-101.60 AND DETOUR AS SHOWN IN PHASE 3B TO COMPLETE TEMPORARY PAVEMENT WORK.

TO COMPLETE CONSTRUCTION OF NEW STORM SEWER MAIN AND RETAINING WALL CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED.

TO COMPLETE CONSTRUCTION OF NEW STORM SEWER MAIN CLOSE THE MAINLINE AND RAMP SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED.

EXIT 158

Grant EXIT

STA. 84+00 D3-1 (18"x48") E5-H2R BLACK ON ORANGE ON TEMPORARY SUPPORT

REMOVE EXISTING RUMBLE STRIPS STA. 84+50 TO STA. 85+50

EX. CURB AND SHOULDER IMPACTED BY STORM SEWER WORK. AFTER COMPLETING THE SEWER RESTORE THE SHOULDER PAVEMENT WITH ITEM 615. CURB WILL NOT BE RESTORED. GRADE A TEMPORARY SWALE PER THE MOT CROSS SECTIONS.

PROP. STORM SEWER (SEE DRAINAGE DETAILS)

GUARDRAIL IMPACTED BY SEWER WORK.PB AND IA QUANTITY INCLUDED IN MOT SUBSUMMARY TO BE PLACED ONCE SEWER WORK IS COMPLETE (NOT SHOWN)

-116.0 - BEGIN PB

STA. 80+40

PLACE CB2-2B TO COLLECT DRAINAGE FROM TEMP SWALE. OUTFALL BASIN TO DA12A

℄ EX. I.R. 77

LL ELW PB

RAMP A3 (OPEN*)

END ELW/ BEGIN CHW - -39.0

LL - -28.0

STA. 84+50

IA CHW PB

STA. 86+00

GUARDRAIL IMPACTED BY SEWER WORK.PB AND IA QUANTITY INCLUDED IN MOT SUBSUMMARY TO BE PLACED ONCE SEWER WORK IS COMPLETE (NOT SHOWN)

***

MATCH LINE STA. 75+50

77 78 79 80 81 82 83 84 85 86 87

MATCH LINE STA. 88+00

RAMP A4 (OPEN*)

PLACE CB2-2B TO COLLECT DRAINAGE FROM TEMP SWALE. OUTFALL BASIN TO DA21

STA. 85+00

IA

+50

**

SPEED LIMIT 80

BEGIN PB - 59.1

STA. 85+93

END CHW/MEET EX. DL - -41.0

PLACE CB2-2B TO COLLECT DRAINAGE FROM TEMP SWALE. OUTFALL BASIN TO D22

TO COMPLETE TEMPORARY PAVEMENT CLOSE THE SHOULDER PER MT-95.45. LANE CLOSURES PER THE PLCS WILL BE PERMITTED. SEE MOT CROSS SECTIONS FOR DETAILS OF TEMP SWALE.

Digital Speed Limit (DSL) Sign Assembly (STA. 88+00)

SPEED LIMIT WORK ZONE

STA. 83+50 -97.5 BEGIN PB

DA44 IMPACTED BY SEWER WORK ABANDON AND ALLOW DRAINAGE TO CONTINUE SOUTH.

EX. SIGN TRUSS TO REMAIN UNTIL PHASE 1B (SEE TRAFFIC CONTROL PLAN FOR DETAILS OF SIGNS).

EX. CURB AND SHOULDER IMPACTED BY STORM SEWER WORK. AFTER COMPLETING THE SEWER RESTORE THE SHOULDER PAVEMENT WITH ITEM 615. CURB WILL NOT BE RESTORED. GRADE A TEMPORARY SWALE PER THE MOT CROSS SECTIONS.

END PB - -46.7

END PB - -44.7

STA. 85+00

EX. CANTILEVER SIGN IMPACTED BY STS WORK. UTILIZE LANE CLOSURES PER THE PLCS TO COMPLETE THE REMOVAL. CONSTRUCT THE NEW CANTILEVER SIGN THIS PHASE. IN THE INTERIM BETWEEN REMOVAL OF EXISTING AND COMPLETION OF PROPOSED. PLACE A GROUND MOUNTED E7-H1 SIGN (BLACK ON ORANGE) WITH WOODEN TEMPORARY SUPPORTS PER MT-105.10.

EX. SAFETY PATROL SIGN IMPACTED BY SEWER WORK. REMOVE PER THE TRAFFIC CONTROL PLANS.

REMOVE EXISTING RUMBLE STRIPS ALONG NB OUTSIDE SHOULDER (IR77 AND RAMP A4). SEE MOT TYPICALS FOR DETAILS.

NOTE: SEE SHEET P.48 FOR MOT TYPICAL SECTION
SEE SHEET P.85 FOR MOT LEGEND
SEE SHEET P.101 FOR GRANT AVENUE MOT PLAN

**-ITEM 615-PAVEMENT FOR MOT, CLASS A FROM STA. 86+50 TO STA. 91+50 WIDTH IS 6'. WIDTH VARIES FROM 6' TO 4' FROM STA 91+50 TO STA. 93+00

***-PORTABLE BARRIER TO BE PLACED FOR ALLOWABLE RAMP CLOSURE. SEE MT-98.29 FOR ADDITIONAL DETAILS.

480 1 ½
21 1

STA. 78+50
E7-H1 (7'X5')
BLACK ON ORANGE WITH TEMPORARY SUPPORTS PER MT-105.10

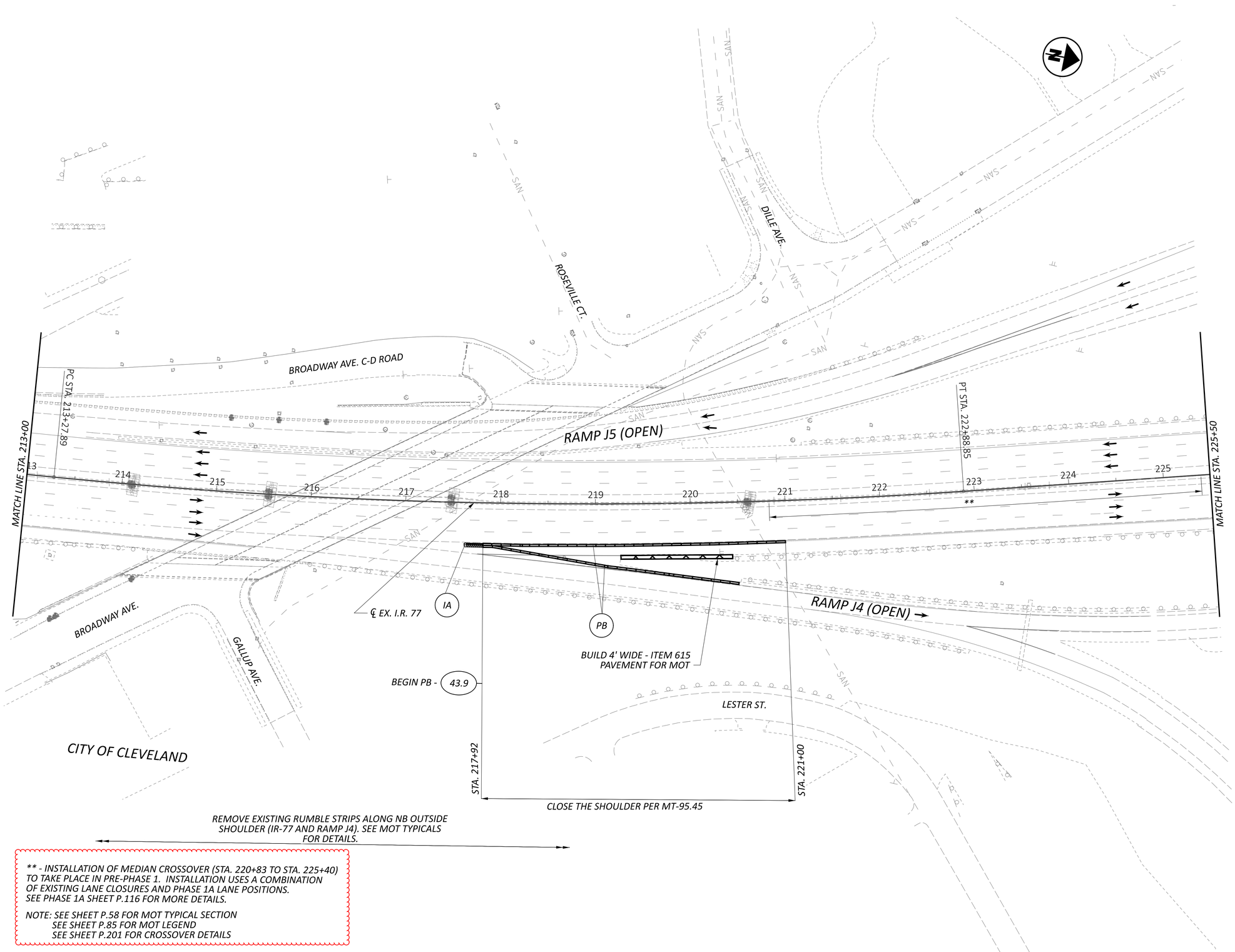
HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PRE-PHASE 1
STA. 75+50 TO STA. 88+00

DESIGN AGENCY
HNTB

DESIGNER	CC
REVIEWER	MTR 05/01/26
PROJECT ID	105743
SHEET	P.88
TOTAL	P.1274

MODEL: CLP_I077 - Plan 15 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 2:56:33 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kemays@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\S - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MP000.dgn



** - INSTALLATION OF MEDIAN CROSSOVER (STA. 220+83 TO STA. 225+40) TO TAKE PLACE IN PRE-PHASE 1. INSTALLATION USES A COMBINATION OF EXISTING LANE CLOSURES AND PHASE 1A LANE POSITIONS. SEE PHASE 1A SHEET P.116 FOR MORE DETAILS.

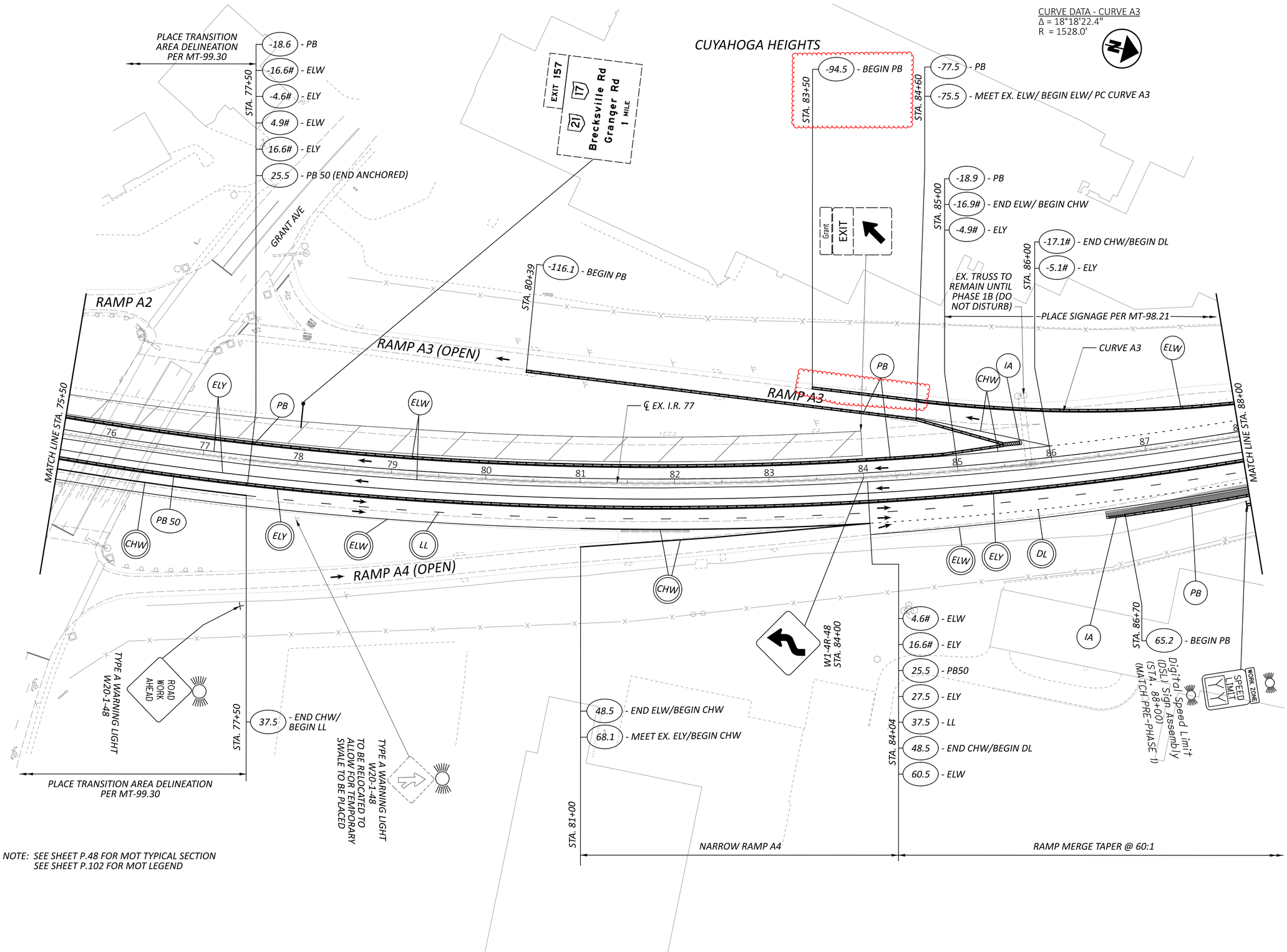
NOTE: SEE SHEET P.58 FOR MOT TYPICAL SECTION
SEE SHEET P.85 FOR MOT LEGEND
SEE SHEET P.201 FOR CROSSOVER DETAILS

HORIZONTAL SCALE IN FEET
0 50 100
25

MAINTENANCE OF TRAFFIC - PRE-PHASE 1
STA. 213+00 TO STA. 225+50

DESIGN AGENCY
HNTB

DESIGNER	CC
REVIEWER	MTR 05/01/26
PROJECT ID	105743
SHEET	P.99
TOTAL	P.1274



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 75+50 TO STA. 88+00

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER CC
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.105 TOTAL P.1274

MODEL: CLP_I077 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 2:58:11 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kemays@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MP100.dgn

MODEL: CLP_I077 - Plan 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 2:59:32 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kemays@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\MOT\Sheets\105743_MP301.dgn

CUY-77-11.41 - PART 1

*-SEE MOT NOTES FOR ALLOWABLE CLOSURE TO COMPLETE WATERLINE CONSTRUCTION THIS PHASE.

MAINTAIN SB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE

EXIT 161B
490 TO 90
Toledo 2 MILES

EXIT 159B
Fleet Ave 1/2 MILE

EXIT 159A
Harvard Ave Newburgh Hts

RAMP B2 (OPEN*)

CLOSE RIGHT TURN LANE WITH DRUMS PER MT-98.30

MATCH LINE STA. 100+50

101 102 103 104 105 106 107 108 109 110 111 112

PC STA. 103+25.93

MATCH LINE STA. 113+00

℄ CONST. I.R. 77

RAMP B1 (CLOSED)

ELW

PB

STA. 100+53

15.8 - MEET EX. ELW/BEGIN ELW

STA. 105+00

15.8 - END ELW/MEET EX. ELW

STA. 106+25

17.8 - END PB/MEET EX. PB

CLOSE RAMP B1 PER MT-101.60

HARVARD AVE.

CLOSE RIGHT TURN LANE WITH DRUMS PER MT-98.30

UTILIZE FULL CLOSURE OF 77 NORTHBOUND TO CONSTRUCT NEW PERMANENT TRUSS AND OVERHEAD SIGNS AT 104+00 PER THE TRAFFIC CONTROL PLANS

MAINTAIN NB TRAFFIC CONTROL PER PHASE 3A UNLESS NOTED OTHERWISE

NOTE: SEE SHEET P.50 FOR MOT TYPICAL SECTION
SEE SHEET P.177 FOR MOT LEGEND
SEE SHEET P.63 FOR DETOUR PLAN

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC - PHASE 3B
STA. 100+50 TO STA. 113+00

DESIGN AGENCY
HNTB

DESIGNER JEM
REVIEWER MTR 05/01/26
PROJECT ID 105743
SHEET P.180 TOTAL P.1274

SHEET NUMBER													PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.25	P.26	P.27	P.28	P. 286	P. 288	P. 290	P.294	P.296	P.711	P.727	P.1015	P.1030	01/IMS	02/IMS	03/IMS						
																				ROADWAY	
LS													LS			201	11000	LS		CLEARING AND GRUBBING	P. 25
		26		192,047									192,073			202	23000	192,073	SY	PAVEMENT REMOVED	
				4,068									4,068			202	30000	4,068	SF	WALK REMOVED	
				11									11			202	30200	11	FT	STEPS REMOVED	
				15,947									15,947			202	30700	15,947	FT	CONCRETE BARRIER REMOVED	
				221									221			202	30800	221	SY	TRAFFIC ISLAND REMOVED	
				36,794									36,794			202	32000	36,794	FT	CURB REMOVED	
							7,109						7,109			202	23500	7,109	SY	WEARING COURSE REMOVED	
									2,000	8,773	383	162	11,318			202	35100	11,318	FT	PIPE REMOVED, 24" DIAMETER AND UNDER	
									500	2,129			2,629			202	35200	2,629	FT	PIPE REMOVED, OVER 24" DIAMETER	
		25		14,427									14,452			202	38000	14,452	FT	GUARDRAIL REMOVED	
				2									2			202	47800	2	EACH	IMPACT ATTENUATOR REMOVED	
									10	61	2		73			202	58000	73	EACH	MANHOLE REMOVED	
									10	135			145			202	58100	145	EACH	CATCH BASIN REMOVED	
									10	62			72			202	58200	72	EACH	INLET REMOVED	
										1			1			202	58401	1	EACH	INLET ABANDONED, AS PER PLAN	P.711
										2	4		6			202	58700	6	EACH	MANHOLE ABANDONED	
												228	228			SPECIAL	20270000	228	FT	FILL AND PLUG EXISTING CONDUIT, 12" WATER MAIN	P.1017
												281	281			SPECIAL	20270000	281	FT	FILL AND PLUG EXISTING CONDUIT, 36" WATER MAIN	P.1017
										11,791			11,791			SPECIAL	20270000	11,791	FT	FILL AND PLUG EXISTING CONDUIT, 24" AND UNDER	P.711
										7,450			7,450			SPECIAL	20270000	7,450	FT	FILL AND PLUG EXISTING CONDUIT, 27" TO 48"	P.711
										1,954			1,954			SPECIAL	20270110	1,954	FT	PIPE CLEANOUT, 24" AND UNDER	P.711
										499			499			SPECIAL	20270120	499	FT	PIPE CLEANOUT, 27" TO 48"	P.711
					23,469								23,469			202	75000	23,469	FT	FENCE REMOVED	
				329									329			202	38500	329	FT	BRIDGE RAILING REMOVED	
					3								3			202	75250	3	EACH	GATE REMOVED	
										1			1			202	98100	1	EACH	REMOVAL MISC.: MANUFACTURED SYSTEM, TYPE 1 REMOVED	P.711
				1,724									1,724			202	98200	1,724	FT	REMOVAL MISC.: RAILROAD RAILS AND TIES	P. 26
										466			466			202	98200	466	FT	REMOVAL MISC.: TRENCH DRAIN REMOVED	P.711
						152,342							152,342			203	10000	152,342	CY	EXCAVATION	
						48,841							48,841			203	20000	48,841	CY	EMBANKMENT	
		26						7,419					7,445			204	10000	7,445	SY	SUBGRADE COMPACTION	
			112										112			204	13000	112	CY	EXCAVATION OF SUBGRADE	P.28
			112										112			204	30010	112	CY	GRANULAR MATERIAL, TYPE B	P.28
							100	22					122			204	45000	122	HOUR	PROOF ROLLING	
			461										461			204	51000	461	SY	GEOGRID	P.28
							6,140	1,091					7,231			206	10500	7,231	TON	CEMENT	
							200,527	19,197					219,724			206	11000	219,724	SY	CURING COAT	
							200,527	19,197					219,724			206	15020	219,724	SY	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	
LS													LS			206	30000	LS		MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS	
	2.1												2.1			209	15051	2.1	MILE	RESHAPING UNDER GUARDRAIL, AS PER PLAN	P. 26
		25			11,100								11,125			606	15050	11,125	FT	GUARDRAIL, TYPE MGS	
					16								16			606	26100	16	EACH	ANCHOR ASSEMBLY, TYPE E	
					11								11			606	26500	11	EACH	ANCHOR ASSEMBLY, TYPE T	
					24								24			606	35002	24	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
					2								2			606	60022	2	EACH	IMPACT ATTENUATOR, TYPE 2 (UNIDIRECTIONAL) (65MPH/34")	
					21,110								21,110			607	23000	21,110	FT	FENCE, TYPE CLT	
					992								992			607	23001	992	FT	FENCE, TYPE CLT, AS PER PLAN, A	P. 27
					2,213								2,213			607	23001	2,213	FT	FENCE, TYPE CLT, AS PER PLAN, B	P. 27
					1,621								1,621			607	23001	1,621	FT	FENCE, TYPE CLT, AS PER PLAN, C	P. 27
					3								3			607	61200	3	EACH	GATE, TYPE CLT	
					24,339								24,339			607	70000	24,339	FT	FENCELINE SEEDING AND MULCHING	
				1,027									1,027			608	10000	1,027	SF	4" CONCRETE WALK	
				3,457									3,457			608	52000	3,457	SF	CURB RAMP	
					2,040								2,040			622	10100	2,040	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE B1	

GENERAL SUMMARY

CUY-77-11.41 - PART 1

MODEL: Unnamed Plan - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 11:15:04 PM PLTDRV: OHDOT_PDF.plt;fg PENTBL: OHDOT_Pen.tbl USER: smain@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GG001.dgn

DESIGN AGENCY
HNTB

DESIGNER ASEP

REVIEWER KKP 05/01/26

PROJECT ID 105743

SHEET P.275 | TOTAL P.1274

SHEET NUMBER											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.27	P.28	P. 288	P. 290	P.303	P.711	P.728	P.744	P.753	P.1116		01/IMS	02/IMS	03/IMS						
																		ROADWAY (CONT.)	
		271									271			622	10120	271	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C	
		10,503									10,503			622	10140	10,503	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C1	
		5,545									5,545			622	10160	5,545	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D	
		1									1			622	10200	1	EACH	BARRIER TRANSITION	
		16									16			622	25000	16	EACH	CONCRETE BARRIER END SECTION, TYPE D	
		9									9			622	25006	9	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1	
		7									7			622	25008	7	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C	
		96									96			622	25014	96	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1	
		61									61			622	25050	61	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	
		5									5			622	90200	5	EACH	BARRIER, MISC.: CONCRETE BARRIER END SECTION, TYPE C	P. 27
8											8			623	38501	8	EACH	MONUMENT ASSEMBLY, TYPE C, AS PER PLAN	P. 27
8											8			623	40900	8	EACH	MONUMENT, MISC.: MONUMENT REFERENCING	P. 27
		3									3			625	32000	3	EACH	GROUND ROD	
																		EROSION CONTROL	
						8					8			601	11000	8	SY	RIPRAP, TYPE D	
					4			5.4			9.4			601	21050	9.4	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
						70					70			601	32200	70	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
						300					300			601	37500	300	FT	PAVED GUTTER, TYPE 1-2	
2											2			659	00100	2	EACH	SOIL ANALYSIS TEST	
15,047				1,917							16,964			659	00300	16,964	CY	TOPSOIL	
			108,517								108,517			659	10000	108,517	SY	SEEDING AND MULCHING	
6,778											6,778			659	14000	6,778	SY	REPAIR SEEDING AND MULCHING	
6,778											6,778			659	15000	6,778	SY	INTER-SEEDING	
18.9											18.9			659	20000	18.9	TON	COMMERCIAL FERTILIZER	
28.01											28.01			659	31000	28.01	ACRE	LIME	
750											750			659	35000	750	MGAL	WATER	
305											305			659	40000	305	MSF	MOWING	
				13,406							13,406			670	00500	13,406	SY	SLOPE EROSION PROTECTION	
				5,375		2,541					7,916			670	00720	7,916	SY	DITCH EROSION PROTECTION MAT, TYPE B	
				LS							LS			832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
				LS							LS			832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
				LS							LS			832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
				700,000							700,000			832	30000	700,000	EACH	EROSION CONTROL	
						215					215			836	10000	215	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	
																		ENVIRONMENTAL / REMEDIATION	
	2,824										2,824			SPECIAL	69065000	2,824	TON	WORK INVOLVING NON-REGULATED MATERIALS	P.28
	2,824										2,824			SPECIAL	69065010	2,824	TON	WORK INVOLVING SOLID WASTE	P.28
	21,220										21,220			SPECIAL	69065022	21,220	GAL	WORK INVOLVING NON-REGULATED WATER	P.28
	21,220										21,220			SPECIAL	69065024	21,220	GAL	WORK INVOLVING REGULATED WATER	P.28
																		DRAINAGE	
							0.81				0.81			602	20000	0.81	CY	CONCRETE MASONRY	
					500			92,042			92,542			605	11110	92,542	FT	6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
					100			1,354			1,454			605	13300	1,454	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
									620		620			611	00400	620	FT	4" CONDUIT, TYPE E	
					250			3,607			3,857			611	00510	3,857	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
							9				9			611	00901	9	FT	6" CONDUIT, TYPE B, AS PER PLAN1	P.711
							35				35			611	00901	35	FT	6" CONDUIT, TYPE B, AS PER PLAN 1, 707.65	P.711
							5				5			611	01101	5	FT	6" CONDUIT, TYPE C, AS PER PLAN 1, 707.65	P.711
							8				8			611	01801	8	FT	8" CONDUIT, TYPE B, AS PER PLAN1	P.711
							20				20			611	02001	20	FT	8" CONDUIT, TYPE C, AS PER PLAN 1	P.711
							92				92			611	04401	92	FT	12" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	P.711
							5,236				5,236			611	05901	5,236	FT	15" CONDUIT, TYPE B, AS PER PLAN 1	P.711
							56				56			611	05901	56	FT	15" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	P.711
							30				30			611	05901	30	FT	15" CONDUIT, TYPE B, AS PER PLAN 1, 707.65	P.711
							171				171			611	05901	171	FT	15" CONDUIT, TYPE B, AS PER PLAN 3	P.712

GENERAL SUMMARY

CUY-77-11.41 - PART 1

DESIGN AGENCY: HNTB

DESIGNER: ASEP

REVIEWER: KKP 05/02/26

PROJECT ID: 105743

SHEET P.276 | TOTAL P.1274

MODEL: Unnamed Plan - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 5:59:56 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: smain@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\30\1525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GG001.dgn

SHEET NUMBER											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.744	P.745	P.746									01/IMS	02/IMS	03/IMS						
																		DRAINAGE (CONT.)	
3											3			611	05901	3	FT	15" CONDUIT, TYPE B, AS PER PLAN 5	P.712
739											739			611	06101	739	FT	15" CONDUIT, TYPE C, AS PER PLAN 1	P.711
283											283			611	06101	283	FT	15" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	P.711
16											16			611	06101	16	FT	15" CONDUIT, TYPE C, AS PER PLAN 1, 707.65	P.711
26											26			611	06101	26	FT	15" CONDUIT, TYPE C, AS PER PLAN 3	P.712
226											226			611	06101	226	FT	15" CONDUIT, TYPE C, AS PER PLAN4	P.712
1,815											1,815			611	07401	1,815	FT	18" CONDUIT, TYPE B, AS PER PLAN1	P.711
6											6			611	07401	6	FT	18" CONDUIT, TYPE B, AS PER PLAN1, 706.02	P.711
10											10			611	07401	10	FT	18" CONDUIT, TYPE B, AS PER PLAN1, 707.65	P.711
458											458			611	07401	458	FT	18" CONDUIT, TYPE B, AS PER PLAN 2	P.712
714											714			611	07601	714	FT	18" CONDUIT, TYPE C, AS PER PLAN 1	P.711
299											299			611	07601	299	FT	18" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	P.711
317											317			611	08901	317	FT	21" CONDUIT, TYPE B, AS PER PLAN 1	P.711
11											11			611	08901	11	FT	21" CONDUIT, TYPE B, AS PER PLAN 3	P.711
371											371			611	09101	371	FT	21" CONDUIT, TYPE C, AS PER PLAN 1	P.711
87											87			611	10401	87	FT	24" CONDUIT, TYPE B, AS PER PLAN 1	P.711
259											259			611	10601	259	FT	24" CONDUIT, TYPE C, AS PER PLAN 1	P.711
224											224			611	10601	224	FT	24" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	P.711
5											5			611	10601	5	FT	24" CONDUIT, TYPE C, AS PER PLAN 1, 707.01	P.711
284											284			611	12101	284	FT	27" CONDUIT, TYPE C, AS PER PLAN 1	P.711
831											831			611	13401	831	FT	30" CONDUIT, TYPE B, AS PER PLAN 1	P.711
211											211			611	13401	211	FT	30" CONDUIT, TYPE B, AS PER PLAN 2	P.712
88											88			611	13601	88	FT	30" CONDUIT, TYPE C, AS PER PLAN 5	P.712
	30										30			611	16601	30	FT	36" CONDUIT, TYPE C, AS PER PLAN 1	P.711
	8										8			611	16601	8	FT	36" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	P.711
	18										18			611	19601	18	FT	42" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	P.711
	583										583			611	20901	583	FT	48" CONDUIT, TYPE B, AS PER PLAN 1	P.711
	1,912										1,912			611	21101	1,912	FT	48" CONDUIT, TYPE C, AS PER PLAN 1	P.711
	8										8			611	21101	8	FT	48" CONDUIT, TYPE C, AS PER PLAN 1, 706.02	P.711
	550										550			611	22401	550	FT	54" CONDUIT, TYPE B, AS PER PLAN 1	P.711
	444										444			611	22601	444	FT	54" CONDUIT, TYPE C, AS PER PLAN 1	P.711
	4,427										4,427			611	23801	4,427	FT	60" CONDUIT, TYPE B, AS PER PLAN 1	P.711
	132										132			611	25201	132	FT	66" CONDUIT, TYPE B, AS PER PLAN 1, 706.02	P.711
	133										133			611	52203	133	FT	14" X 23" CONDUIT, TYPE B, 706.04, AS PER PLAN 1	P.711
	269										269			611	52303	269	FT	19" X 30" CONDUIT, TYPE B, 706.04, AS PER PLAN 1	P.711
	1,182										1,182			611	96601	1,182	FT	CONDUIT, BORED OR JACKED, AS PER PLAN 1, 15", TYPE B	P.711
	99										99			611	96601	99	FT	CONDUIT, BORED OR JACKED, AS PER PLAN 1, 18", TYPE B	P.711
	133										133			611	96601	133	FT	CONDUIT, BORED OR JACKED, AS PER PLAN 1, 21", TYPE B	P.711
	224										224			611	96601	224	FT	CONDUIT, BORED OR JACKED, AS PER PLAN 1, 24", TYPE B	P.711
	134										134			611	96601	134	FT	CONDUIT, BORED OR JACKED, AS PER PLAN 1, 27", TYPE B	P.711
	207										207			611	96601	207	FT	CONDUIT, BORED OR JACKED, AS PER PLAN 1, 30", TYPE B	P.711
	117										117			611	96601	117	FT	CONDUIT, BORED OR JACKED, AS PER PLAN 1, 36", TYPE B	P.711
	165										165			611	96601	165	FT	CONDUIT, BORED OR JACKED, AS PER PLAN 1, 60", TYPE B	P.711
	64										64			611	97400	64	FT	CONDUIT, MISC.: 14" X 23" CONDUIT, TYPE C, 706.04, AS PER PLAN 1	P.711
	51										51			611	97400	51	FT	CONDUIT, MISC.: 24" X 38" CONDUIT, TYPE C, 706.04, AS PER PLAN 1	P.711
	3										3			611	98180	3	EACH	CATCH BASIN, NO. 3A	
	9										9			611	98300	9	EACH	CATCH BASIN, NO. 5	
	1										1			611	98301	1	EACH	CATCH BASIN, NO. 5, AS PER PLAN	P.712
	5										5			611	98371	5	EACH	CATCH BASIN, NO. 6, AS PER PLAN	P.712
	1										1			611	98430	1	EACH	CATCH BASIN, NO. 8 WITHOUT APRON	
	7										7			611	98510	7	EACH	CATCH BASIN, NO. 2-3	
	4										4			611	98520	4	EACH	CATCH BASIN, NO. 2-3 WITH BICYCLE SAFE GRATE	
	4										4			611	98580	4	EACH	CATCH BASIN, NO. 2-5 WITH BICYCLE SAFE GRATE	
	2										2			611	98610	2	EACH	CATCH BASIN, NO. 2-6 WITH BICYCLE SAFE GRATE	
	13										13			611	98630	13	EACH	CATCH BASIN ADJUSTED TO GRADE	
	2										2			611	98634	2	EACH	CATCH BASIN RECONSTRUCTED TO GRADE	
		9									9			611	98840	9	EACH	INLET, NO. 2-A-6	
		15									15			611	98850	15	EACH	INLET, NO. 2-A-8	

GENERAL SUMMARY

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER
ASEP

REVIEWER
KKP 05/03/26

PROJECT ID
105743

SHEET P.277 TOTAL P.1274

MODEL: Unnamed Plan - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 5:59:57 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: smain@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GG001.dgn

SHEET NUMBER											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.27	P. 286	P. 288	P.294	P.296	P.711	P.746	P.753	P.1030			01/IMS	02/IMS	03/IMS						
																		DRAINAGE (CONT.)	
						26					26			611	98860	26	EACH	INLET, NO. 2-A-10	
						9					9			611	98870	9	EACH	INLET, NO. 2-A-12	
						1					1			611	98890	1	EACH	INLET, NO. 2-A-16	
						8					8			611	99100	8	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1	
						20					20			611	99110	20	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1	
						2					2			611	99111	2	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN	P.712
						25					25			611	99114	25	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D	
						1					1			611	99115	1	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN1	P.712
						2					2			611	99115	2	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN2	P.712
						58					58			611	99500	58	EACH	INLET, MISC.: BARRIER INLET SCREEN	P.713
						19					19			611	99574	19	EACH	MANHOLE, NO. 3	
						12					12			611	99574	12	EACH	MANHOLE, NO. 3 WITH 60" BASE I.D.	
						2					2			611	99574	2	EACH	MANHOLE, NO. 3 WITH 72" BASE I.D.	
						7					7			611	99574	7	EACH	MANHOLE, NO. 3 WITH 84" BASE I.D.	
						2					2			611	99574	2	EACH	MANHOLE, NO. 3 WITH 90" BASE I.D.	
						1					1			611	99574	1	EACH	MANHOLE, NO. 3 WITH 96" BASE I.D.	
						1					1			611	99574	1	EACH	MANHOLE, NO. 3 WITH 108" BASE I.D.	
						1					1			611	99621	1	EACH	MANHOLE, NO. 5, AS PER PLAN	P.712
						1					1			611	99575	1	EACH	MANHOLE, NO. 3, AS PER PLAN	P.712
						1					1			611	99575	1	EACH	MANHOLE, NO. 3, AS PER PLAN WITH 72" BASE I.D.	
						1					1			611	99575	1	EACH	MANHOLE, NO. 3, AS PER PLAN WITH 84" BASE I.D.	
						1					1			611	99575	1	EACH	MANHOLE, NO. 3, AS PER PLAN WITH 96" BASE I.D.	
						6					6			611	99654	6	EACH	MANHOLE ADJUSTED TO GRADE	
						1					1			611	99655	1	EACH	MANHOLE ADJUSTED TO GRADE, AS PER PLAN	P.712
						3					3			611	99660	3	EACH	MANHOLE RECONSTRUCTED TO GRADE	
						5					5			611	99690	5	EACH	MANHOLE, MISC.: MANHOLE ADJUSTED TO GRADE WITH BOLTED COVER	P.712
						8					8			611	99690	8	EACH	MANHOLE, MISC.: MANHOLE NO. 3 WITH BOLTED COVER	P.712
						3					3			611	99690	3	EACH	MANHOLE, MISC.: MANHOLE NO. 3 WITH 60" BASE I.D. WITH BOLTED COVER	P.712
						2					2			611	99690	2	EACH	MANHOLE, MISC.: MANHOLE NO. 3 WITH 72" BASE I.D. WITH BOLTED COVER	P.712
						2					2			611	99690	2	EACH	MANHOLE, MISC.: MANHOLE NO. 3 WITH 84" BASE I.D. WITH BOLTED COVER	P.712
						6					6			611	99690	6	EACH	MANHOLE, MISC.: MANHOLE NO. 3 WITH 90" BASE I.D. WITH BOLTED COVER	P.712
						11					11			611	99690	11	EACH	MANHOLE, MISC.: MANHOLE NO. 3 WITH 96" BASE I.D. WITH BOLTED COVER	P.712
							3				3			611	99710	3	EACH	PRECAST REINFORCED CONCRETE OUTLET	
					15,000						15,000			SPECIAL	61199820	15,000	LB	MISCELLANEOUS METAL	P.711
						1					1			611	99900	1	EACH	DRAINAGE STRUCTURE, MISC.: RESHAPE AND REESTABLISH EXISTING CONNECTION	P.712
																		PAVEMENT	
			712								712			254	01000	712	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.5"	
			9,697								9,697			254	01000	9,697	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3.25"	
			5,105								5,105			254	01001	5,105	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN, 3.4" AVG.	P.28
			255								255			302	56001	255	CY	ASPHALT CONCRETE BASE, (449), AS PER PLAN, PG64-22	P.28
			46,935								46,935			302	66001	46,935	CY	ASPHALT CONCRETE BASE, AS PER PLAN, 25.0 MM GYRATORY MIX	P.27-P.28
5			33,081	4,957							38,043			304	20000	38,043	CY	AGGREGATE BASE	
			602	434							1,036			407	13900	1,036	GAL	TACK COAT, 702.13	
			35,224								35,224			407	20000	35,224	GAL	NON-TRACKING TACK COAT	
				257							257			441	50000	257	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
				356							356			441	50300	356	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	
			289	75							364			441	70801	364	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN	P.26
			11,121	1,454							12,575			442	00100	12,575	CY	ANTI-SEGREGATION EQUIPMENT	
			10,661								10,661			442	10080	10,661	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	
			8,909								8,909			442	10301	8,909	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	P.28
			429								429			442	22401	429	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (449), AS PER PLAN	P.28
26				17,715							17,741			452	15010	17,741	SY	12" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
20		4,400									4,420			609	14000	4,420	FT	CURB, TYPE 2-A	
		10,105									10,105			609	24510	10,105	FT	CURB, TYPE 4-C	
	739										739			609	26000	739	FT	CURB, TYPE 6	

GENERAL SUMMARY

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER
ASEP

REVIEWER
KKP 05/04/26

PROJECT ID
105743

SHEET P.278 TOTAL P.1274

MODEL: Unnamed Plan - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 1:20:00 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301626 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GG001.dgn

SHEET NUMBER											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P. 28	P. 286	P.1015	P.1017	P.1030	P.1099	P.1117	P.1123	P.1124			01/IMS	02/IMS	03/IMS						
																		PAVEMENT (CONT.)	
	565										565			609	50000	565	SY	4" CONCRETE TRAFFIC ISLAND	
11.43											11.43			618	40601	11.43	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE), AS PER PLAN	P.28
																		WATER WORK	
				302							302			638	02601	302	FT	12" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, BOLTLESS-RESTRAINED JOINTS AND FITTINGS, AS PER PLAN	P.1017
				2							2			638	08101	2	EACH	12" GATE VALVE AND VALVE BOX, AS PER PLAN	P.1017
				2							2			638	09201	2	EACH	12" CUTTING-IN SLEEVE, VALVE AND VALVE BOX, AS PER PLAN	P.1017
				121							121			SPECIAL	63820460	121	FT	20" STEEL PIPE ENCASEMENT, BORED OR JACKED, CWD	P.1017
				120							120			SPECIAL	63820484	120	FT	56" STEEL PIPE ENCASEMENT, BORED OR JACKED, CWD	P.1017
				10							10			638	98000	10	EACH	POTHOLING	P.1017
				318							318			638	98600	318	FT	WATER WORK, MISC.:WATER WORK, MISC.: 36" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, BOLTLESS RESTRAINED JOINTS AND FITTINGS	P.1017
				1							1			638	98000	1	EACH	WATER WORK, MISC.: 4" DRAIN ASSEMBLY	P.1017
				2							2			638	98000	2	EACH	WATER WORK, MISC.: CHLORINATION PIT	P.1017
			15,000								15,000			638	98000	15,000	EACH	WATER WORK, MISC.: CITY OF CLEVELAND WATER DEPARTMENT CHARGES	P.1017
			LS								LS			638	98100	LS		WATER WORK, MISC.: AS-BUILT DRAWINGS	P.1017
																		SANITARY SEWER	
		279									279			611	10401	279	FT	24" CONDUIT, TYPE B, AS PER PLAN, 748.01	P.1015
		4									4			611	99574	4	EACH	MANHOLE, NO. 3	
		5									5			611	99654	5	EACH	MANHOLE ADJUSTED TO GRADE	
		5									5			611	99660	5	EACH	MANHOLE RECONSTRUCTED TO GRADE	
		4									4			611	99690	4	EACH	MANHOLE, MISC.: MANHOLE ADJUSTED TO GRADE WITH BOLTED COVER	P.1015
		6									6			611	99690	6	EACH	MANHOLE, MISC.: MANHOLE RECONSTRUCTED TO GRADE WITH BOLTED COVER	P.1015
		2									2			611	99690	2	EACH	MANHOLE, MISC.: MANHOLE ADJUSTED TO GRADE, BURIED MANHOLES	
		4									4			611	99690	4	EACH	MANHOLE, MISC.: MANHOLE RECONSTRUCTED TO GRADE, BURIED MANHOLES	
																		LIGHTING	
							230				230			625	00450	230	EACH	CONNECTION, FUSED PULL APART	
							96				96			625	00480	96	EACH	CONNECTION, UNFUSED PERMANENT	
							46				46			625	10490	46	EACH	LIGHT POLE, CONVENTIONAL, A12B40	
							63				63			625	10494	63	EACH	LIGHT POLE, LOW MAST, ALM 41.25	
							252				252			625	10620	252	EACH	LIGHT POLE ANCHOR BOLTS, MISC.: MEDIAN MOUNTED ALM 41.25	P.1116
							46				46			625	14100	46	EACH	LIGHT POLE FOUNDATION, 24" X 8' DEEP	
							63				63			625	14306	63	EACH	MEDIAN LIGHT POLE FOUNDATION, 10' DEEP	
							46,815				46,815			625	23200	46,815	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
							14,988				14,988			625	23400	14,988	FT	NO. 10 AWG POLE AND BRACKET CABLE	
							13,230				13,230			625	24320	13,230	FT	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	
							740				740			625	25600	740	FT	CONDUIT, 4", 725.04	
							630				630			625	25902	630	FT	CONDUIT, JACKED OR DRILLED, 725.04, 4"	
							46				46			625	26253	46	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (IES-II, LED, 480V, 13,400-15,000 LUMENS)	P.1116
							63				63			625	26273	63	EACH	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN (IES-V, LED, 480V, 43,600-51,000 LUMENS)	P.1116
							5				5			625	27503	5	EACH	LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN (LED, 120V, 4,000-6,900 LUMENS)	P.1116
							13,120				13,120			625	29000	13,120	FT	TRENCH	
							4				4			625	29910	4	EACH	TRANSITION JUNCTION BOX	
							66				66			625	29930	66	EACH	MEDIAN JUNCTION BOX	
							28				28			625	30700	28	EACH	PULL BOX, 725.08, 18"	
							3				3			625	30706	3	EACH	PULL BOX, 725.08, 24"	
								20			20			625	31510	20	EACH	PULL BOX REMOVED	
							109				109			625	32000	109	EACH	GROUND ROD	
							5				5			625	34001	5	EACH	POWER SERVICE, AS PER PLAN	P.1116
							13,120				13,120			625	36010	13,120	FT	UNDERGROUND WARNING MARKING TAPE	
							2				2			625	37101	2	EACH	SERVICE TO UNDERPASS LIGHTING, AS PER PLAN	P.1116
								1			1			625	39520	1	EACH	PULL BOX CLEANED	P.1116
						LS					LS			SPECIAL	62540000	LS		MAINTAIN EXISTING LIGHTING	P.1117
						20					20			SPECIAL	62540010	20	EACH	REPLACEMENT OF EXISTING LIGHTING UNIT	P.1117
								198			198			625	75400	198	EACH	LIGHT POLE REMOVED	
						198		198			396			625	75500	396	EACH	LIGHT POLE FOUNDATION REMOVED	
								5			5			625	75510	5	EACH	POWER SERVICE REMOVED	
								5			5			625	75800	5	EACH	DISCONNECT CIRCUIT	
							5				5			625	98000	5	EACH	LIGHTING, MISC.: ARC FLASH CALCULATIONS AND LABEL	P.1116

GENERAL SUMMARY

DESIGN AGENCY

HNTB

DESIGNER ASEP

REVIEWER KKP 05/05/26

PROJECT ID 105743

SHEET P.279 TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: Unnamed Plan - Plan 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 11:15:23 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: smain@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GG001.dgn

SHEET NUMBER											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.25	P.26	P.30	P.31	P.32	P.34	P.35	P.42	P.47	P.1096		01/IMS	02/IMS	03/IMS						
																		TRAFFIC SIGNALS (CONT.)	
									2		2			625	30706	2	EACH	PULL BOX, 725.08, 24"	
									1		1			625	32000	1	EACH	GROUND ROD	
									2		2			630	79500	2	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	
									7.5		7.5			630	80100	7.5	SF	SIGN, FLAT SHEET	
									1		1			632	20731	1	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN (A)	P.1096
									1		1			632	20731	1	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN (B)	P.1096
									600		600			632	40500	600	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
									1		1			632	64020	1	EACH	PEDESTAL FOUNDATION	
									1		1			632	89920	1	EACH	PEDESTAL, 10.7' TALL, TRANSFORMER BASE	
																		RETAINING WALLS	
																		FOR RETAINING WALL 1A	P. 835
																		FOR RETAINING WALL 1B	P. 851
																		FOR RETAINING WALL 1C	P. 861
																		FOR RETAINING WALL 1D	P. 876
																		FOR RETAINING WALL 2A	P. 901
																		FOR RETAINING WALL 2	P. 907
																		FOR RETAINING WALL 3	P. 921
																		FOR RETAINING WALL 4	P. 935
																		FOR RETAINING WALL 5A	P. 946
																		FOR RETAINING WALL 5B	P.968
																		FOR RETAINING WALL 5C	P. 980
																		FOR RETAINING WALL 6	P. 986
																		FOR RETAINING WALL 7	P. 1001
																		FOR MOMENT SLABS	P. 1010
																		STRUCTURE OVER 20 FOOT SPAN	
																		FOR STRUCTURE CUY-77-1322	P. 1143
																		FOR STRUCTURE CUY-77-1331	P. 1168
																		MISCELLANEOUS STRUCTURE	
LS											LS			202	11001	LS		STRUCTURE REMOVED, AS PER PLAN A	P.25
LS											LS			202	11001	LS		STRUCTURE REMOVED, AS PER PLAN B	P. 25
LS											LS			202	11001	LS		STRUCTURE REMOVED, AS PER PLAN C	P. 25
LS											LS			202	11001	LS		STRUCTURE REMOVED, AS PER PLAN D	P. 25
	LS										LS			202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN A	P. 26
	LS										LS			202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN B	P. 26
	LS										LS			202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN C	P. 26
	LS										LS			202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN D	P. 26
	LS										LS			202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN E	P. 26
																		MAINTENANCE OF TRAFFIC	
									1,834		1,834			202	23500	1,834	SY	WEARING COURSE REMOVED	
							3				3			202	58400	3	EACH	INLET ABANDONED	
									129,435		129,435			254	01000	129,435	SY	PAVEMENT PLANING, ASPHALT CONCRETE, T=1.5"	
									11,341		11,341			407	20000	11,341	GAL	NON-TRACKING TACK COAT	
									4,680		4,680			441	70101	4,680	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN, PG64-22	P. 36
									LS		LS			503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
							500				500			611	05900	500	FT	15" CONDUIT, TYPE B	
							34				34			611	10400	34	FT	24" CONDUIT, TYPE B	
							947				947			611	97010	947	FT	SLOTTED DRAIN, TYPE 2, 15"	
							7				7			611	98470	7	EACH	CATCH BASIN, NO. 2-2B	
							6				6			611	99150	6	EACH	INLET ADJUSTED TO GRADE	
							3				3			611	99154	3	EACH	INLET RECONSTRUCTED TO GRADE	
							1				1			611	99574	1	EACH	MANHOLE, NO. 3	
				1,490							1,490			614	11110	1,490	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
									27,224		27,224			614	11630	27,224	FT	INCREASED BARRIER DELINEATION	
		25							41		66			614	12380	66	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
									16		16			614	12400	16	EACH	WORK ZONE IMPACT ATTENUATOR, MISC.: 48" WIDE HAZARD (UNIDIRECTIONAL)	P. 32
											LS			614	12420	LS		DETOUR SIGNING	

GENERAL SUMMARY

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER
ASEP

REVIEWER
KKP 05/08/26

PROJECT ID
105743

SHEET P.282 | TOTAL P.1274

MODEL: Unnamed Plan - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 6:32:39 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: smain@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GG001.dgn

SHEET NUMBER											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.30	P.31	P.32	P.33	P.34	P.35	P.42	P.47				01/IMS	02/IMS	03/IMS						
																		MAINTENANCE OF TRAFFIC (CONT.)	
		42									42			614	12484	42	EACH	WORK ZONE INCREASED PENALTIES SIGN	
	40										40			614	12500	40	EACH	REPLACEMENT SIGN	
	2										2			614	12756	2	EACH	WORK ZONE CROSSOVER LIGHTING SYSTEM	
						2,260					2,260			614	12801	2,260	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	P. 36
250							833				1,083			614	13000	1,083	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
							2,082				2,082			614	13310	2,082	EACH	BARRIER REFLECTOR, TYPE 1, 1 WAY	
							1,410				1,410			614	13310	1,410	EACH	BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL	
							58				58			614	13312	58	EACH	BARRIER REFLECTOR, TYPE 2, 1 WAY	
							2,852				2,852			614	13350	2,852	EACH	OBJECT MARKER, ONE WAY	
					15						15			614	18000	15	EACH	MAINTAINING TRAFFIC, MISC.: BURIAL OF EXISTING MANHOLES FOR MOT	P. 35
							607				607			614	13360	607	EACH	OBJECT MARKER, TWO WAY	
			480								480			614	18601	480	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	P. 33
						8.99					8.99			614	20011	8.99	MILE	WORK ZONE LANE LINE, CLASS I, 6", AS PER PLAN	P. 31
						35.7					35.7			614	20056	35.7	MILE	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	
						30.31					30.31			614	22011	30.31	MILE	WORK ZONE EDGE LINE, CLASS I, 6", AS PER PLAN	P. 31
						102.78					102.78			614	22056	102.78	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT	
						30,176					30,176			614	23011	30,176	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", AS PER PLAN	P. 31
						76,549					76,549			614	23110	76,549	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	
						9,892					9,892			614	24001	9,892	FT	WORK ZONE DOTTED LINE, CLASS I, AS PER PLAN	P. 31
						48,835					48,835			614	24102	48,835	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	
						72					72			614	26001	72	FT	WORK ZONE STOP LINE, CLASS I, AS PER PLAN	P. 31
						810					810			614	26200	810	FT	WORK ZONE STOP LINE, CLASS I, 642 PAINT	
						1,070					1,070			614	27050	1,070	FT	WORK ZONE CROSSWALK LINE, CLASS I, 12", 642 PAINT	
							500				500			614	28400	500	FT	WORK ZONE GORE MARKING, CLASS II, 740.06, TYPE I	
						23					23			614	30001	23	EACH	WORK ZONE ARROW, CLASS I, AS PER PLAN	P. 31
						77					77			614	30200	77	EACH	WORK ZONE ARROW, CLASS I, 642 PAINT	
											LS			615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
400							3,892				4,292			615	20000	4,292	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	
	870										870			616	10000	870	MGAL	WATER	
							25,450				25,450			622	41011	25,450	FT	PORTABLE BARRIER, 50", AS PER PLAN A	P. 32
							7,300				7,300			622	41011	7,300	FT	PORTABLE BARRIER, 50", AS PER PLAN B	P. 32
8,000							84,800				92,800			622	41100	92,800	FT	PORTABLE BARRIER, UNANCHORED	
							2,330				2,330			622	41110	2,330	FT	PORTABLE BARRIER, ANCHORED	
							725				725			630	80300	725	SF	SIGN, OVERLAY	
						8,974					8,974			642	30000	8,974	FT	REMOVAL OF PAVEMENT MARKING	
						6					6			642	30020	6	EACH	REMOVAL OF PAVEMENT MARKING	
						24.77					24.77			642	30030	24.77	MILE	REMOVAL OF PAVEMENT MARKING	
		480									480			808	18700	480	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	
				144							144			829	00100	144	SNMT	WORK ZONE EGRESS WARNING SYSTEM	
				216							216			896	00010	216	SNMT	PORTABLE NON-INTRUSIVE TRAFFIC SENSOR, CLASS I	
				216							216			896	00021	216	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	P.34

GENERAL SUMMARY

DESIGN AGENCY
HNTB

DESIGNER
ASEP

REVIEWER
KKP 05/08/26

PROJECT ID
105743

SHEET P.283 TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: Unnamed Plan - Plan 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 6:32:39 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: smain@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GG001.dgn
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets

REF NO.	SHEET NO.	LOCATION	STATION TO STATION			SIDE	202 PAVEMENT REMOVED	202 WALK REMOVED	202 STEPS REMOVED	202 CONCRETE BARRIER REMOVED	202 TRAFFIC ISLAND REMOVED	202 CURB REMOVED	202 GUARDRAIL REMOVED	202 IMPACT ATTENUATOR REMOVED	202 BRIDGE RAILING REMOVED	202 REMOVAL MISC.: RAILROAD RAILS AND TIES	608 4" CONCRETE WALK	608 CURB RAMP	609 CURB, TYPE 6	609 4" CONCRETE TRAFFIC ISLAND
							SY	SF	FT	FT	SY	FT	FT	EACH	FT	FT	SF	SF	FT	SY
R-68	P.321-P.322	RAMP A3	300+27.00	TO	307+03.00	LT/RT	2070													
R-69	P.321	RAMP A3	300+15.00	TO	301+62.00	RT				21			132							
R-70	P.324-P.325	RAMP A4	400+30.00	TO	406+05.00	RT						579								
R-71	P.324-P.325	RAMP A4	400+59.00	TO	406+05.00	LT						547								
R-72	P.324-P.325	RAMP A4	400+26.00	TO	405+70.00	LT/RT	1595													
R-73	P.324	RAMP A4	400+57.00	TO	401+74.00	LT				20			112							
R-74	P.327	RAMP B1	106+40.00	TO	108+19.00	RT				40			140							
R-75	P.326-P.327	RAMP B1	104+95.00	TO	109+16.00	RT						420								
R-76	P.326-P.327	RAMP B1	104+95.00	TO	109+16.00	LT						426								
R-77	P.326-P.327	RAMP B1	104+35.00	TO	109+16.00	LT/RT	1487													
R-78	P.328	RAMP B2	202+20.00	TO	204+73.00	LT						253								
R-89	P.328	RAMP B2	202+62.00	TO	204+73.00	LT/RT	570													
R-79	P.329-P.330	RAMP B3	301+70.00	TO	308+63.00	RT						689								
R-80	P.329-P.330	RAMP B3	301+70.00	TO	308+63.00	LT						694								
R-81	P.329-P.330	RAMP B3	301+70.00	TO	307+63.00	LT/RT	1894													
R-82	P.329-P.331	RAMP B3	301+76.00	TO	128+77 (I.R. 77)	LT				50			1468							
R-83	P.332-P.333	RAMP B4	401+75.00	TO	405+35.00	RT						358								
R-84	P.332-P.333	RAMP B4	401+75.00	TO	405+35.00	LT						364								
R-85	P.332-P.333	RAMP B4	401+75.00	TO	405+23.00	LT/RT	943													
R-86	P.334-P.336	RAMP C1	104+65.00	TO	112+00.00	RT						733								
R-87	P.334-P.336	RAMP C1	104+65.00	TO	112+00.00	LT						738								
R-88	P.334-P.336	RAMP C1	104+81.00	TO	112+00.00	LT/RT	1914													
R-90	P.334-P.336	RAMP C1	104+65.00	TO	111+30.00	LT							667	1						
R-91	P.337-P.338	RAMP C2	201+50.00	TO	204+80.00	RT						332								
R-92	P.337-P.338	RAMP C2	201+50.00	TO	204+80.00	LT						330								
R-93	P.337-P.338	RAMP C2	201+50.00	TO	204+28.00	LT/RT	756													
R-94	P.337-P.338	RAMP C2	200+80.00	TO	204+78.00	RT							398	1						
R-95	P.337	RAMP C2	201+31.00	TO	203+38.00	LT							208							
R-96	P.339-P.340	RAMP C3	300+47.00	TO	305+02.00	RT						455								
R-97	P.339-P.340	RAMP C3	300+47.00	TO	305+02.00	LT						456								
R-98	P.339-P.340	RAMP C3	300+47.00	TO	304+21.00	LT/RT	1010													
R-99	P.343	RAMP D1	103+37.00	TO	106+50.00	RT						311								
R-100	P.343	RAMP D1	103+37.00	TO	106+50.00	LT						317								
R-101	P.343	RAMP D1	103+42.00	TO	106+50.00	LT/RT	874													
R-102	P.344-P.345	RAMP D2	203+14.00	TO	205+90.00	RT						274								
R-103	P.344-P.345	RAMP D2	203+14.00	TO	205+90.00	LT						277								
R-104	P.344-P.345	RAMP D2	202+86.00	TO	205+90.00	LT/RT	864													
R-105	P.347-P.348	RAMP E1	107+50.00	TO	112+48.00	RT						599								
R-106	P.347-P.348	RAMP E1	107+50.00	TO	113+53.00	LT						656								
R-107	P.347-P.348	RAMP E1	105+70.00	TO	113+50.00	LT/RT	2775													
R-110	P.709	CHARD AVE	156+94.00			LT		1142	11											
R-111	P.354	RUFFINI	30+11.00 (MUP WEST)	TO	30+35.00 (MUP WEST)	RT	49													
CR-8	P.709	CHARD AVE	157+09.00	TO	157+30.00	RT		286				24						181		
CR-9	P.709	CHARD AVE	157+24.00	TO	157+33.00	RT		78				6						91		
CR-1	P.321	RAMP A2	16+17.00	TO	16+30.00	RT		138				31						160		
CR-2	P.321	RAMP A3	300+85.00	TO	300+99.00	LT		135				46						148		
CR-3	P.321	RAMP A3	300+58.00	TO	300+69.00	LT												82		
CR-5	P.321	RAMP A3	300+34.00	TO	300+46.00	LT/RT												92		
CR-6	P.321	RAMP A3	300+09.00	TO	300+35.00	RT		155				32						186		
CR-4	P.324	RAMP A4	400+12.00	TO	400+30.00	RT		126				65						142		
CR-7	P.324	RAMP A4	400+51.00	TO	400+66.00	LT		112				30						146		
CR-10	P.348	RAMP E1	113+48.00	TO	113+78.00	LT		220				44						298		
CR-11	P.348	RAMP E1	112+24.00	TO	112+51.00	RT		82				41						330		
CR-12	P.348	RAMP E1	112+72.00	TO	112+85.00	RT												97		
CR-13	P.348	RAMP E1	113+18.00	TO	113+34.00	RT												97		
CR-14	P.354	MUP WEST	30+21.00	TO	30+47.00	LT/RT						18						267		
CR-15	P.354	MUP WEST	30+84.00	TO	30+09.00	LT/RT						40						333		
CR-16	P.354	MUP WEST	31+25.00	TO	31+51.00	LT/RT		157				30						432		
CR-17	P.358	MUP WEST	52+59.00	TO	52+88.00	LT/RT		164				39						375	19	
SW-1	P.709	CHARD AVE	156+91.00	TO	157+09.00	RT						18				114			18	
SW-2	P.709	CHARD AVE	157+23.00			RT						233			329	830			233	
SW-3	P.709	CHARD AVE	157+05.00	TO	157+24.00	RT						24				83			24	
I-1	P.321	RAMP A3	300+28.00	TO	300+99.00	LT/RT					221								178	186
I-2	P.348	RAMP E1	112+31.00	TO	113+38.00	RT		1273				309							267	379
TOTALS THIS SHEET							16801	4068	11	131	221	10838	3125	2	329	0	1027	3457	739	565
TOTALS FROM SHEET P.285							175246	0	0	15816	0	25956	11302	0	0	1724	0	0	0	0
TOTALS CARRIED TO GENERAL SUMMARY							192047	4068	11	15947	221	36794	14427	2	329	1724	1027	3457	739	565

ROADWAY SUBSUMMARY

CUY-77-11.41 - PART 1

DESIGN AGENCY

HNTB

DESIGNER ASEP

REVIEWER KKP 05/01/26

PROJECT ID 105743

SHEET P.286 | TOTAL P.1274

MODEL: roadway subsum - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 9:46:33 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: smain@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GS002.dgn

REF NO.	SHEET NO.	LOCATION	STATION TO STATION			SIDE	202 FENCE REMOVED	202 GATE REMOVED	606 GUARDRAIL, TYPE MGS	606 ANCHOR ASSEMBLY, TYPE E	606 ANCHOR ASSEMBLY, TYPE T	606 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	606 IMPACT ATTENUATOR, TYPE 2 (UNIDIRECTIONAL)	607 FENCE, TYPE CLT	607 FENCE, TYPE CLT, AS PER PLAN A	607 FENCE, TYPE CLT, AS PER PLAN B	607 FENCE, TYPE CLT, AS PER PLAN C	607 GATE, TYPE CLT	607 FENCELINE SEEDING AND MULCHING	609 CURB, TYPE 2-A	609 CURB, TYPE 4-C	LENGTH DEDUCTED FOR SIGN STRUCTURES IN BARRIER	LENGTH DEDUCTED FOR LIGHTING STRUCTURES IN BARRIER	LENGTH DEDUCTED FOR DRAINAGE STRUCTURES IN BARRIER	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE B1	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE C	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE C1	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE D	622 BARRIER TRANSITION	622 CONCRETE BARRIER END SECTION, TYPE D	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	622 BARRIER, MISC.:CONCRETE BARRIER END SECTION, TYPE C	625 GROUND ROD
							FT	EACH	FT	EACH	EACH	EACH	EACH	FT	FT	FT	FT	EACH	FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
F-2	P.1179	I.R. 77	89+77.30	TO	91+04.10	LT	122							122					122																	
F-13	P.1179	I.R. 77	90+64.20	TO	93+80.20	RT	316	1						317				1	325																	2
F-3	P.1179	I.R. 77	91+40.70	TO	95+20.20	LT	372							370					370																	1
F-14	P.1179	I.R. 77	94+18.20	TO	95+68.00	RT	159							154					154																	
F-15	P.1179	I.R. 77	95+99.40	TO	98+49.40	RT	259							254					254																	
F-4	P.1179-P.1180	I.R. 77	96+91.00	TO	205+87.9 (RAMP B2)	LT	1510							1501					1501																	
F-17	P.1181-P.1183	I.R. 77	400+48.2 (RAMP B4)	TO	111+82.3 (RAMP C1)	RT	2715							2715					2715																	
F-6	P.1183	I.R. 77	141+21.20	TO	141+61.30	LT	47							47					47																	
F-5	P.1181-P.1183	I.R. 77	300+39.1 (RAMP B3)	TO	141+24.70	LT	2996							3038					3038																	
F-7	P.1183	I.R. 77	143+01.70	TO	147+18.70	LT	426							426					426																	
F-18	P.1183-P.1184	I.R. 77	300+99.0 (RAMP C3)	TO	154+84.50	RT	1163							1163					1163																	
F-19	P.1184-P.1185	I.R. 77	154+84.50	TO	171+00.00	RT	1621										1621																			
F-20	P.1185-P.1186	I.R. 77	171+00.00	TO	175+06.70	RT	433							433					433																	
F-21	P.1186-P.1187	I.R. 77	176+15.20	TO	197+20.10	RT	2184							2227					2227																	
F-23	P.1186-P.1187	I.R. 77	176+30.00	TO	208+30.2 (RAMP D2)	LT	2384							2141					2141																	
F-24	P.709	CHARD AVE	156+25.00	TO	157+08.00	LT	833																													
F-1	P.1178-P.1179	RAMP A3	301+37.10	TO	89+45.2 (I.R. 77)	LT	1068							1080					1080																	
F-12	P.1178-P.1179	RAMP A4	400+24.20	TO	89+33.0 (I.R. 77)	RT	1393	2						1387				2	1403																	
F-16	P.1180-P.1181	RAMP B1	100+75.00	TO	109+58.10	RT	877							884					884																	
F-8	P.1184	RAMP C2	203+40.00	TO	209+93.40	LT								592					592																	
F-22	P.1187-P.1188	RAMP E1	100+09.80	TO	112+37.60	RT	1410							1407					1407																	
F-9	P.1184-P.1185	MUP WEST	12+30.00	TO	22+05.20	LT	772								992				992																	
F-10	P.1185-P.1186	MUP WEST	22+05.20	TO	30+52.50	LT	409							852					852																	
F-11	P.1186-P.1187	MUP WEST	31+59.40	TO	52+71.10	LT										2213			2213																	
GR-1	P.304	I.R. 77	51+09.00	TO	52+84.61	RT			162.5		1																									
GR-2	P.305	I.R. 77	73+12.89	TO	75+50.00	RT			175.0	1		1																								
GR-3	P.305	I.R. 77	77+40.00	TO	79+93.82	LT			162.5	1		1																								
GR-4	P.307-P.308	I.R. 77	103+05.40	TO	204+00.00 (RAMP B2)	LT			637.5	1		1																								
GR-5	P.306	I.R. 77	86+91.23	TO	88+75.00	RT			112.5	1		1																								
GR-6	P.307	I.R. 77	96+75.00	TO	99+60.00	RT			525.0			2																								
GR-9	P.308	I.R. 77	113+00.00	TO	115+37.50	LT			175.0	1		1																								
GR-8	P.307-P.308	I.R. 77	106+69.97	TO	112+00.00	RT			475.0			1	1																							
GR-7	P.309	I.R. 77	126+05.57	TO	128+21.40	RT			150.0	1	1																								
GR-10	P.308-P.309	I.R. 77	301+88.00 (RAMP B3)	TO	128+96.00	LT			2237.5		1	1																								
GR-11	P.309-P.310	I.R. 77	131+64.00	TO	134+00.00	LT			162.5	1		1																								
GR-12	P.310	I.R. 77	132+91.47	TO	141+65.00	RT			825.0			1	1																							
GR-14	P.310-P.311	I.R. 77	143+25.00	TO	145+62.50	LT			175.0	1		1																								
GR-13	P.310-P.311	I.R. 77	142+65.00	TO	145+02.50	RT			200.0		1	1																								
GR-15	P.311	I.R. 77	152+62.50	TO	155+00.00	RT			162.5	1		1																								
GR-16	P.313	I.R. 77	171+00.00	TO	175+00.00	RT			350.0			2																								
GR-18	P.313-P.314	I.R. 77	177+25.53	TO	203+87.84 (RAMP D2)	LT			1512.5	1		1																								
GR-17	P.313-P.314	I.R. 77	176+48.00	TO	101+74.84 (RAMP D1)	RT			1237.5			2																								
GR-19	P.314-P.315	I.R. 77	194+71.85	TO	197+50.00	RT			200.0	1		1																								
GR-20	P.315	I.R. 77	198+50.00	TO	200+62.50	LT			137.5	1		1																								
GR-21	P.317	I.R.77	211+25.00	TO	213+25.00	RT			137.5	1																										
GR-22	P.321	RAMP A2	15+06.92	TO	16+19.49	RT			87.5		1	1																								
GR-24	P.321	RAMP A3	300+58.83	TO	301+46.33	RT			12.5	1		1																								
GR-25	P.326-P.327	RAMP B1	104+58.38	TO	105+65.89	LT			37.5	1	1																									
GR-26	P.334-P.336	RAMP C1	105+04.33	TO	110+03.34	LT			487.5		1																									
GR-23	P.339	RAMP C3	300+61.50	TO	302+74.00	LT			150	1	1																									
GR-28	P.342	RAMP D1	103+41.88	TO	104+64.61	RT			87.5		1	1																								
GR-27	P.346-P.347	RAMP E1	102+90.48	TO	106+50.27	RT			325		2																									
BR-16	P.305	I.R. 77	69+50.00	TO	74+50.00	LT/RT																			465			1		1						
BR-1	P.305-P.307	I.R. 77	74+50.00	TO	99+90.00	LT/RT															20	88	140		1932						24					
BR-2	P.307-P.308	I.R. 77	99+60.00	TO	106+00.00 (RAMP B1)	RT																	80				637		1			9			
BR-3	P.307	I.R. 77	99+90.00	TO	100+75.00	LT/RT																8		77											
BR-4	P.307-P.310	I.R. 77	100+75.00	TO	133+85.00	LT/RT															20	104	120		2766						20					
BR-5	P.310	I.R. 77	133+85.00	TO	139+05.00	LT/RT																24	20	446						2					
BR-6	P.310-P.311	I.R. 77	139+05.00	TO	149+20.00	LT/RT																32	20		903						4				
BR-7	P.311	I.R. 77	149+20.00	TO	151+80.00	LT/RT																8		252											
BR-8	P.311-P.312	I.R. 77	151+80.00	TO	167+80.00	LT/RT															20	56	100		1154						18					
BR-9	P.312-P.313	I.R. 77	167+80.00	TO	172+95.00	LT/RT																24		491											
BR-10	P.313-P.315	I.R. 77	172+95.00	TO	199+38.00	LT/RT															20	96	80		2177						18					
BR-11	P.315	I.R. 77	199+38.00	TO	204+03.00	LT/RT																16	80	309						4					
BR-12	P.315-P.317	I.R. 77	204+03.00	TO	209+56.00	LT/RT																16			507					2					
BR-13	P.317	I.R. 77	209+56.00	TO	215+65.00	LT/RT															10	24	40		415						8					
BR-18	P.317	I.R. 77	210+75.00	TO	213+75.00	LT																					270					2				
TOTALS CARRIED TO SHEET P.288							23469	3	11100	16	11	24	2	21110	992	2213	1621	3	24339	0	0	90	496	680	2040	0	9854	907	1	1	9	0	92	11	0	3

ROADWAY SUBSUMMARY

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER
ASEP

REVIEWER
KKP 05/01/26

PROJECT ID
105743

SHEET P.287 | TOTAL P.1274

MODEL: roadway subsum - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 2:09:35 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: smain@hntb.com WORKSPACE: OHDOTCIVil2 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GS002.dgn
...\Pen.tbl

REF NO.	SHEET NO.	LOCATION	STATION TO STATION				202 FENCE REMOVED FT	202 GATE REMOVED EACH	606 GUARDRAIL, TYPE MGS FT	606 ANCHOR ASSEMBLY, TYPE E EACH	606 ANCHOR ASSEMBLY, TYPE T EACH	606 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1 EACH	606 IMPACT ATTENUATOR, TYPE 2 (UNIDIRECTIONAL) EACH	607 FENCE, TYPE CLT FT	607 FENCE, TYPE CLT, AS PER PLAN A FT	607 FENCE, TYPE CLT, AS PER PLAN B FT	607 FENCE, TYPE CLT, AS PER PLAN C FT	607 GATE, TYPE CLT EACH	607 FENCELINE SEEDING AND MULCHING FT	609 CURB, TYPE 2-A FT	609 CURB, TYPE 4-C FT	LENGTH DEDUCTED FOR SIGN STRUCTURES IN BARRIER FT	LENGTH DEDUCTED FOR LIGHTING STRUCTURES IN BARRIER FT	LENGTH DEDUCTED FOR DRAINAGE STRUCTURES IN BARRIER FT	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE B1 FT	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE C FT	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE C1 FT	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE D FT	622 BARRIER TRANSITION EACH	622 CONCRETE BARRIER END SECTION, TYPE D EACH	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1 EACH	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C EACH	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1 EACH	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D EACH	622 BARRIER, MISC.:CONCRETE BARRIER END SECTION, TYPE C EACH	625 GROUND ROD EACH
BR-15	P.317-P.319	I.R. 77	217+91.00	TO	225+40.00	LT/RT																40			649					4				
BR-19	P.324	RAMP A4	400+56.68	TO	400+95.00	LT																				25						2			
BR-17	P.337-P.338	RAMP C2	201+50.00	TO	209+93.40	LT																80				614						10			
BR-20	P.305	I.R. 77	75+50.00	TO	76+40.00	RT																				63		1				1			
BR-21	P.305	I.R. 77	76+00.00	TO	77+40.00	LT																		95						1			1		
BR-22	P.306-P.307	I.R. 77	307+02.63 (RAMP A3)	TO	200+00.00 (RAMP B2)	LT																140				1501		1				15			
BR-23	P.306	I.R. 77	88+75.00	TO	89+32.15	RT																		13						1			1		
BR-24	P.306-P.307	I.R. 77	89+32.15	TO	96+75.00	RT																20				676		1				3			
BR-25	P.308	I.R. 77	112+00.00	TO	113+20.00	RT																				90		1				1			
BR-26	P.308	I.R. 77	111+80.00	TO	113+00.00	LT																				93		1				1			
BR-27	P.309	I.R. 77	128+96.00	TO	131+64.00	LT																60				94		2				5			
BR-28	P.310	I.R. 77	141+65.00	TO	142+65.00	RT																				72		2							
BR-29	P.310	I.R. 77	141+25.00	TO	143+25.00	LT																20		105						3			1		
BR-30	P.311-P.312	I.R. 77	155+00.00	TO	168+90.00	RT																80				1173		1				9			
BR-31	P.313	I.R. 77	176+39.00	TO	177+25.53	LT																				57		1				1			
BR-32	P.342	RAMP D1	101+74.84	TO	103+41.88	RT																20		58						2			2		
BR-33	P.315	I.R. 77	197+50.00	TO	198+50.00	RT																				72		1				1			
BR-34	P.315	I.R. 77	197+50.00	TO	198+50.00	LT																				71		1				1			
BR-35	P.321	RAMP A2	15+06.92	TO	16+19.49	RT																				4		1							
BR-36	P.321	RAMP A3	300+58.83	TO	301+46.33	RT																				33		1							
C-1	P.305	I.R. 77	74+50.00	TO	75+50.00	RT															100														
C-2	P.305	I.R. 77	74+50.00	TO	76+00.00	LT															150														
C-3	P.305	I.R. 77	76+40.00	TO	81+05.60	RT															473														
C-4	P.305-P.306	I.R. 77	77+40.00	TO	84+01.07	LT															652														
C-5	P.307	I.R. 77	96+75.00	TO	99+60.00	RT															572														
C-24	P.307-P.308	I.R. 77	103+05.40	TO	108+61.75	LT															567														
C-6	P.308	I.R. 77	108+64.93	TO	111+80.00	LT															319														
C-7	P.308	I.R. 77	113+20.00	TO	117+83.77	RT															458														
C-8	P.310	I.R. 77	132+91.43	TO	141+65.00	RT															882														
C-9	P.310-P.311	I.R. 77	142+65.00	TO	146+42.86	RT															384														
C-10	P.310-P.311	I.R. 77	143+25.00	TO	150+65.93	LT															745														
C-11	P.311	I.R. 77	146+46.39	TO	155+00.00	RT															1438														
C-12	P.313	I.R. 77	171+00.00	TO	175+00.00	RT															400														
C-13	P.313-P.314	I.R. 77	176+48.00	TO	183+99.10	RT															1739														
C-14	P.315-P.317	I.R. 77	198+50.00	TO	210+75.00	LT															1226														
C-15	P.321-P.322	RAMP A3	300+86.23	TO	307+02.63	LT															654														
C-16	P.324	RAMP A4	400+30.11	TO	400+89.01	RT															87														
C-25	P.327	RAMP B1	108+08.00	TO	109+15.89	LT															109														
C-17	P.327	RAMP B1	106+00.00	TO	109+15.89	RT															316														
C-18	P.328	RAMP B2	202+62.20	TO	204+73.29	LT															211														
C-19	P.329	RAMP B3	301+70.17	TO	303+50.00	LT/RT															358														
C-20	P.334-P.336	RAMP C1	104+81.00	TO	112+00.00	LT/RT															1261														
C-21	P.337	RAMP C2	201+50.00	TO	203+00.00	RT															301														
C-22	P.339-P.340	RAMP C3	300+46.76	TO	304+21.41	LT/RT															761														
C-23	P.342-P.343	RAMP D1	103+41.90	TO	106+50.00	RT															308														
C-25	P.354	RUFFINI	30+11.00 (MUP WEST)	TO	30+35.00 (MUP WEST)	RT															34														
TOTALS THIS SHEET							0	0	0	0	0	0	0	0	0	0	0	0	0	4400	10105	0	271	649	4638	0	15	0	7	4	50	5	0		
TOTALS FROM SHEET P.287							23469	3	11100	16	11	24	2	21110	992	2213	1621	3	24339	0	0	2040	0	9854	907	1	1	9	0	92	11	0	3		
TOTALS CARRIED TO GENERAL SUMMARY							23469	3	11100	16	11	24	2	21110	992	2213	1621	3	24339	4400	10105	2040	271	10503	5545	1	16	9	7	96	61	5	3		

DESIGN AGENCY
HNTB
DESIGNER
ASEP
REVIEWER
KKP 05/01/26
PROJECT ID
105743
SHEET P.288 TOTAL P.1274

CUY-77-11.41 - PART 1
MODEL: roadway subsum - Plan 4 (Sheet) PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 7:05:36 PM PLTDRV: OHDOT_PDF.pltdg PENTBL: OHDOT_Pen.tbl USER: smain@hntb.com WORKSPACE: OHDOTCIVv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GS002.dgn

SHEET NO.	203 EXCAVATION CY	203 EMBANKMENT CY	659 SEEDING AND MULCHING SY	SPECIAL BENCHING CY
MOT				
P.203	26	0	111	
P.204	172	0	403	
P.205	675	0	1378	
P.206	306	0	838	
P.207	61	1	133	
P.208	265	23	552	
P.209	401	14	536	
P.210	462	0	322	
P.211	339	0	242	
P.212	300	0	272	
P.213	256	0	289	
P.214	241	0	314	
P.215	271	0	416	
P.216	198	0	394	
P.217	171	0	378	
P.218	632	0	961	
P.219	285	4	619	
P.220	111	0	192	
P.221	154	0	231	
P.222	167	0	219	
P.223	151	0	234	
P.224	124	0	156	
P.225	159	0	183	
P.226	393	0	439	
P.227	1175	0	1380	
P.228	397	1	670	
P.229	505	5	722	
P.230	1007	0	1017	
P.231	118	0	298	
P.232	69	0	194	
P.233	0	0	0	
P.234	45	128	817	
P.235	72	364	956	
P.236	22	453	678	
P.237	12	414	680	
P.238	49	671	1037	
P.239	8	280	725	
P.240	4	20	211	
P.241	10	32	216	
P.242	20	0	86	
P.243	26	0	86	
P.244	87	0	236	
P.245	46	7	275	
P.246	18	7	283	
P.247	20	2	306	
P.248	10	0	89	
P.249	35	0	117	
P.250	71	0	200	
P.251	80	0	206	
P.252	85	0	197	
P.253	63	0	169	
P.254	112	0	217	
P.255	69	0	177	
P.256	105	0	248	
P.257	128	0	286	
P.258	138	0	306	
P.259	435	0	895	
P.260	945	0	1384	
P.261	1192	0	1422	
P.262	531	0	622	
TOTAL SUMMARY A	14029	2426	27220	0

SHEET NO.	203 EXCAVATION CY	203 EMBANKMENT CY	659 SEEDING AND MULCHING SY	SPECIAL BENCHING CY
P.263	444	0	722	
P.264	261	0	325	
P.265	1611	0	1156	
P.266	1782	0	1000	
P.267	1864	0	936	
P.268	2037	0	977	
P.269	1963	0	1020	
P.270	2147	0	1038	
P.271	1715	0	1025	
P.272	1096	0	1008	
P.273	1072	0	1167	
P.274	277	0	317	
TOTAL SUMMARY B	16269	0	10691	0
ITS WORKPAD DRIVE				
P.361	0	0	0	
P.362	6	76	91	
P.363	6	12	41	
TOTAL SUMMARY C	12	88	132	0

SHEET NO.	203 EXCAVATION CY	203 EMBANKMENT CY	659 SEEDING AND MULCHING SY	SPECIAL BENCHING CY
I.R. 77				
P.364	431	0	303	
P.365	958	41	566	
P.366	569	41	258	
P.367	483	1	266	
P.368	369	5	144	
P.369	287	9	144	
P.370	548	6	299	
P.371	938	54	795	
P.372	630	42	484	
P.373	571	61	408	
P.374	475	93	403	
P.375	430	85	414	
P.376	538	75	400	
P.377	769	7	241	
P.378	810	214	89	
P.379	852	157	3	
P.380	923	61	0	
P.381	897	0	8	
P.382	888	49	55	
P.383	786	171	233	
P.384	594	197	111	
P.385	532	189	261	
P.386	598	1	484	
P.387	416	16	212	
P.388	329	7	78	
P.389	273	6	3	
P.390	226	15	8	
P.391	288	14	75	
P.392	372	2	250	
P.393	552	0	337	
P.394	761	1	336	
P.395	916	2	442	
P.396	879	5	483	
P.397	925	0	422	
P.398	777	0	227	
P.399	822	0	278	
P.400	878	0	417	
P.401	983	64	398	
P.402	1381	2	594	
P.403	1317	0	300	
P.404	1812	0	333	
P.405	1921	0	469	
P.406	1992	0	791	
P.407	1893	19	867	700
P.408	2050	84	1253	659
P.409	1795	181	1219	637
P.410	1657	377	1250	514
P.411	794	234	558	159
P.412	1655	396	1167	408
P.413	1875	413	1248	466
P.414	997	423	897	461
P.415	768	87	625	580
P.416	700	119	600	282
P.417	306	59	231	20
P.418	281	18	153	
P.419	271	0	128	
P.420	206	0	103	
P.421	112	20	89	
P.422	387	544	820	
P.423	42	1713	889	
TOTAL SUMMARY D	48485	6380	24919	4886

SHEET NO.	203 EXCAVATION CY	203 EMBANKMENT CY	659 SEEDING AND MULCHING SY	SPECIAL BENCHING CY
P.424	106	2416	972	
P.425	69	1344	567	
P.426	25	1409	539	
P.427	177	2185	964	
P.428	284	1232	722	
P.429	297	518	473	
P.430	399	164	433	
P.431	699	6	470	
P.432	978	56	959	
P.433	781	29	600	
P.434	524	75	216	
P.435	595	2	436	
P.436	369	3	311	
P.437	217	18	214	
P.438	409	99	214	
P.439	102	289	136	
P.440	34	519	123	
P.441	36	603	94	
P.442	122	995	69	
P.443	45	1097	131	
P.444	28	963	186	
P.445	61	464	80	
P.446	72	374	42	
P.447	91	315	19	
P.448	96	227	14	
P.449	82	171	36	
P.450	61	146	73	
P.451	35	120	123	
P.452	31	134	120	
P.453	45	133	58	
P.454	57	17	8	
P.455	97	2	0	
P.456	129	0	0	
P.457	166	0	0	
P.458	183	0	0	
P.459	148	0	0	
P.460	28	19	0	
P.461	107	37	24	
P.462	260	18	41	
P.463	290	41	320	
P.464	301	90	136	
P.465	200	81	33	
P.466	77	92	36	
P.467	238	92	133	
P.468	299	25	131	
P.469	257	34	125	
P.470	233	45	130	
P.471	211	39	84	
P.472	266	54	108	
P.473	453	97	217	
P.474	459	74	280	
P.475	448	78	209	
P.476	748	156	141	
P.477	816	163	167	
P.478	673	74	169	
P.479	672	29	339	
P.480	763	89	525	
P.481	736	90	783	
P.482	1434	110	1430	
P.483	1269	89	1250	
FILL ABOVE WALL 5B GEOFOAM		382		
TOTAL SUMMARY E	18888	18223	16213	0

EARTHWORK SUBSUMMARY

DESIGN AGENCY

HNTB

DESIGNER ASEP

REVIEWER KKP 05/01/26

PROJECT ID 105743

SHEET P.289 TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: EW - EW 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 9:19:36 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: smain@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GS003.dgn

SHEET NO.	203 EXCAVATION CY	203 EMBANKMENT CY	659 SEEDING AND MULCHING SY	SPECIAL BENCHING CY
P.484	326	219	342	
P.485	1570	102	961	
P.486	1983	82	1083	
P.487	2068	95	925	
P.488	2133	141	875	
P.489	1972	208	836	
P.490	558	210	303	
P.491	70	177	230	
P.492	134	49	234	
P.493	199	46	298	
P.494	260	124	455	
P.495	296	92	481	
P.496	291	79	514	
P.497	289	29	481	
P.498	267	3	347	
P.499	228	0	84	
P.500	143	1	50	
P.501	79	1	0	
P.502	81	0	0	
P.503	70	4	53	
P.504	47	8	78	
P.505	50	2	64	
P.506	88	1	17	
P.507	50	1	25	
RAMP A3				
P.508	40	3	0	
P.509	325	34	488	
P.510	195	105	817	
P.511	352	20	803	
P.512	518	0	711	
P.513	663	0	667	
P.514	759	0	739	
P.515	496	0	389	
P.516	8	0	6	
RAMP A4				
P.517	40	0	4	
P.518	951	0	822	
P.519	1045	0	1000	
P.520	1028	0	908	
P.521	905	0	789	
P.522	583	0	566	
P.523	85	0	94	
RAMP B1				
P.524	25	1	9	
P.525	137	13	125	
P.526	111	114	320	
P.527	211	215	522	
P.528	491	45	644	
P.529	209	0	223	
P.530	16	1	15	
RAMP B2				
P.531	164	0	153	
P.532	478	0	475	
P.533	155	14	362	
P.534	19	8	71	
RAMP B3				
P.535	96	0	89	
P.536	959	0	707	
P.537	1334	0	889	
P.538	1359	0	916	
TOTAL SUMMARY F	27009	2247	23059	0

SHEET NO.	203 EXCAVATION CY	203 EMBANKMENT CY	659 SEEDING AND MULCHING SY	SPECIAL BENCHING CY
P.539	1263	0	745	
P.540	971	0	495	
P.541	495	10	373	
P.542	38	22	91	
RAMP B4				
P.543	62	0	140	
P.544	474	0	777	
P.545	961	0	1191	
P.546	1303	0	823	
RAMP C1				
P.547	0	48	53	
P.548	7	247	220	
P.549	24	323	289	
P.550	24	473	441	
P.551	25	600	425	
P.552	35	759	506	
P.553	94	812	708	
P.554	204	661	1072	
P.555	75	107	269	
RAMP C2				
P.556	0	0	0	
P.557	86	144	314	
P.558	93	224	265	
P.559	278	206	247	
P.560	398	118	251	
P.561	10	2	2	
RAMP C3				
P.562	32	0	88	
P.563	71	140	251	
P.564	334	381	608	
P.565	802	224	550	
P.566	877	154	441	
P.567	126	31	63	
RAMP D1				
P.568	91	3	151	
P.569	235	0	269	
P.570	314	0	450	
P.571	163	0	297	
RAMP D2				
P.572	101	6	85	
P.573	240	4	206	
P.574	650	1	546	
P.575	33	0	27	
RAMP E1				
P.576	612	25	259	
P.577	1830	148	919	
P.578	1094	441	1089	
P.579	659	761	1280	
P.580	430	812	1425	
P.581	455	673	1570	
P.582	663	245	825	
P.583	289	142	425	
P.584	124	37	19	
TOTAL SUMMARY G	17145	8984	21540	0

SHEET NO.	203 EXCAVATION CY	203 EMBANKMENT CY	659 SEEDING AND MULCHING SY	SPECIAL BENCHING CY
MUP WEST				
P.585	69	25	175	
P.586	41	96	350	
P.587	16	92	291	
P.588	32	44	358	
P.589	66	21	375	
P.590	292	0	266	
P.591	55	9	191	
P.592	3	69	208	
P.593	0	154	156	
P.594	0	131	142	
P.595	0	135	236	
P.596	18	68	194	
P.597	59	27	186	
P.598	38	11	100	
P.599	15	2	22	
P.600	14	2	25	
P.601	31	1	100	
P.602	44	0	169	
P.603	24	2	108	
P.604	4	30	53	
P.605	0	76	75	
P.606	269	48	128	
P.607	555	0	189	
P.608	531	0	192	
P.609	500	0	178	
P.610	533	0	183	
P.611	605	0	189	
P.612	677	0	222	
P.613	572	0	353	
P.614	8	1	14	
P.615	112	13	93	
P.616	1842	58	886	
P.617	2233	2	831	
P.618	1627	107	975	194
P.619	1183	260	1083	357
P.620	1315	170	1042	350
P.621	1657	22	781	81
P.622	2117	0	764	
P.623	1145	0	375	
P.624	1110	0	358	
P.625	1056	0	342	
P.626	972	0	328	
P.627	894	0	317	
P.628	819	0	300	
P.629	762	0	281	
P.630	744	59	394	100
P.631	713	143	519	193
P.632	1271	343	1033	385
P.633	596	165	511	191
P.634	608	165	511	174
P.635	1277	331	1025	355
P.636	1338	264	1038	458
P.637	1199	44	633	134
P.638	815	156	550	
P.639	231	739	728	
P.640	102	622	547	
P.641	110	9	200	
P.642	2	4	14	
TOTAL SUMMARY H	32921	4720	21887	2972

SHEET NO.	203 EXCAVATION CY	203 EMBANKMENT CY	659 SEEDING AND MULCHING SY	SPECIAL BENCHING CY
MUP EAST				
P. 643	0	50	70	
P. 644	0	69	125	
P. 645	0	78	119	
P. 646	4	67	153	
P. 647	11	76	292	
P. 648	9	1	8	
TOTAL SUMMARY I	24	341	767	0
TOTAL SUMMARY A	14029	2426	27220	
TOTAL SUMMARY B	16269	0	10691	
MOT TOTAL FOR INFORMATION ONLY	30298	2426	37911	
TOTAL SUMMARY C	12	88	132	0
TOTAL SUMMARY D	48485	6380	24919	4886
TOTAL SUMMARY E	18888	18223	16213	0
TOTAL SUMMARY F	27009	2247	23059	0
TOTAL SUMMARY G	17145	8984	21540	0
TOTAL SUMMARY H	32921	4720	21887	2972
TOTAL SUMMARY I	24	341	767	0
SPECIAL BENCHING TO BE INCLUDED IN EXCAVATION AND EMBANKMENT TOTALS				7858
TOTALS CARRIED TO GENERAL SUMMARY	152342	48841	108517	

EARTHWORK SUBSUMMARY

DESIGN AGENCY
HNTB

DESIGNER
ASEP

REVIEWER
KKP 05/01/26

PROJECT ID
105743

SHEET P.290 TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: EW - EW 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 6:54:03 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: smain@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\RoadwayISheets\105743_GS003.dgn

STATION TO STATION			SIDE	202 WEARING COURSE REMOVED (SY)	204 PROOF ROLLING (HOUR)	206 CEMENT (TON)	206 CURING COAT (SY)	206 CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP (SY)	254 PAVEMENT PLANING, ASPHALT CONCRETE, T=1.5" (SY)	254 PAVEMENT PLANING, ASPHALT CONCRETE, T=3.25" (SY)	254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (T=0" MIN, 6.8" MAX) (SY)	302 ASPHALT CONCRETE BASE, AS PER PLAN , 25.0MM GYRATORY MIX, T = 8.5" (CY)	302 ASPHALT CONCRETE BASE, PG64-22, (449), AS PER PLAN (VARIABLE) (CY)	304 AGGREGATE BASE, T = 6" (CY)	407 TACK COAT, 702.13, (0.085 GAL/SQ YD) (GAL)	407 NON-TRACKING TACK COAT (GAL)	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN (CY)	442 ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446), T = 1.75" (CY)	442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, T = 1.5" (CY)	442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (449), AS PER PLAN (T= 0" MIN, 4.5" MAX) (CY)	442 ANTI-SEGREATION EQUIPMENT, SURFACE COURSE, 1.5" DEPTH (CY)	442 ANTI-SEGREATION EQUIPMENT, INTERMEDIATE COURSE, 1.75" DEPTH (CY)
I.R. 77 SB																							
74+50.00	TO	75+00.00	LT		0.16	10	325	325				77	25	54		75		16	13	9			
75+00.00	TO	75+66.23	LT		0.22	13	430	430				100	27	72		98		21	17	10			
75+66.23	TO	77+40.00	LT		0.51	31	1027	1027				266	44	143		257		54	45	16			
77+40.00	TO	79+00.00	LT		0.52	32	1040	1040				242	9	173		231	5	50	42	3			
79+00.00	TO	79+93.82	LT		0.30	19	610	610				142		102		98	3	29	24				
79+93.82	TO	84+01.07	LT		1.32	80	2647	2647				615		441		426		126	106				
84+01.07	TO	84+30.13	LT		0.16	10	311	311				73		52		50		15	12				
84+30.13	TO	88+37.31	LT		1.83	111	3665	3665				866		611		605		182	150				
88+37.31	TO	89+37.30	LT		0.36	22	724	724				171		121		118		35	29				
89+37.30	TO	89+38.73	LT		0.00	1	10	10				3		2		2		1	1				
89+38.73	TO	89+79.58	LT		0.14	9	286	286				67		48		45		14	11				
89+79.58	TO	90+88.27	LT		0.37	23	739	739				175		123		120		36	29				
90+88.27	TO	91+31.67	LT		0.15	10	304	304				71		51		48		14	12				
91+31.67	TO	93+55.21	LT		0.76	46	1519	1519				359		253		246		74	60				
93+55.21	TO	94+94.40	LT		0.47	29	946	946				224		158		153		46	37				
94+94.40	TO	96+81.19	LT		0.65	40	1298	1298				303		216		206		62	50				
96+81.19	TO	99+90.00	LT		1.09	67	2188	2188				517		365		355		106	87				
99+90.00	TO	100+75.00	LT		0.32	20	646	646				153		108		105		31	26				
100+75.00	TO	103+05.40	LT		0.92	56	1845	1845				436		307		300		90	74				
103+05.40	TO	106+05.21	LT		1.30	79	2591	2591				604		432		419	9	124	105				
106+05.21	TO	107+88.14	LT		0.85	52	1698	1698				397		283		275	6	82	69				
107+88.14	TO	108+64.93	LT		0.38	24	764	764				179		127		124		37	31				
108+64.93	TO	111+80.00	LT		1.02	62	2048	2048				476		341		329		98	82				
111+80.00	TO	113+00.00	LT		0.41	25	813	813				190		136		129		39	31				
113+00.00	TO	115+36.53	LT		0.77	47	1537	1537				361		256		248	7	73	61				
115+36.53	TO	119+57.69	LT		1.37	83	2738	2738				642		456		441		131	109				
119+57.69	TO	122+84.63	LT		1.49	90	2979	2979				700		496		483	10	143	120				
122+84.63	TO	126+07.99	LT		1.23	75	2461	2461				578		410		398	10	118	99				
126+07.99	TO	127+07.99	LT		0.35	22	706	706				166		118		114	3	34	28				
127+07.99	TO	128+96.00	LT		0.61	37	1222	1222				287		204		197	6	58	49				
128+96.00	TO	129+28.04	LT		0.11	7	217	217				51		36		34		10	8				
129+28.04	TO	131+35.96	LT		0.68	42	1367	1367				323		228		224		66	56				
131+35.96	TO	131+64.00	LT		0.10	6	190	190				45		32		30		9	7				
131+64.00	TO	134+01.42	LT		0.77	47	1543	1543				362		257		249	7	74	62				
134+01.42	TO	134+80.00	LT		0.26	16	511	511				120		85		82	2	24	20				
134+80.00	TO	139+05.00	LT		1.38	84	2763	2763				648		460		445	13	132	110				
139+05.00	TO	140+40.00	LT		0.44	27	878	878				206		146		141	4	42	35				
140+40.00	TO	141+25.00	LT		0.28	17	553	553				130		92		89		26	22				
141+25.00	TO	141+60.00	LT		0.12	8	237	237				56		40		38		11	9				
141+60.00	TO	143+25.00	LT		0.53	32	1054	1054				249		150		173		51	43				
143+25.00	TO	145+63.00	LT		0.77	47	1547	1547				360		258		249	7	74	62				
145+63.00	TO	149+20.00	LT		1.16	71	2321	2321				539		387		373		111	93				
149+20.00	TO	150+65.93	LT		0.47	29	949	949				221		158		153		45	38				
150+65.93	TO	151+80.00	LT		0.57	35	1148	1148				269		191		184		55	45				
151+80.00	TO	156+33.75	LT		1.97	120	3948	3948				924		658		631		189	154				
156+33.75	TO	157+34.38	LT		0.35	22	699	699				165		116		114		34	28				
157+34.38	TO	161+89.07	LT		1.45	88	2905	2905				686		484		475		141	118				
161+89.07	TO	163+17.32	LT		0.41	25	819	819				194		116		134		40	33				
163+17.32	TO	165+00.00	LT		0.58	36	1167	1167				276		195		191		57	47				
165+00.00	TO	165+60.07	LT		0.19	12	384	384				91		64		63		19	16				
165+60.07	TO	167+80.00	LT		0.72	44	1447	1447				342		241		237		70	59				
167+80.00	TO	168+30.04	LT		0.17	11	341	341				81		57		56		17	14				
168+30.04	TO	170+40.04	LT		0.72	44	1439	1439				340		240		236		70	59				
170+40.04	TO	170+98.01	LT		0.21	13	420	420				99		70		67		20	16				
170+98.01	TO	172+95.00	LT		0.63	38	1250	1250				318		176		220		65	55				
172+95.00	TO	175+33.50	LT		0.75	46	1508	1508				367		213		262		79	66				
175+33.50	TO	175+73.03	LT		0.13	8	250	250				61		36		43		13	11				
175+73.03	TO	176+39.00	LT		0.21	13	417	417				102		59		72		22	18				
176+39.00	TO	176+83.05	LT		0.16	10	317	317				74		53		50		15	12				
176+83.05	TO	177+25.53	LT		0.15	10	306	306				72		51		49		15	12				
177+25.53	TO	177+83.05	LT		0.20	13	398	398				94		66		64	2	19	16				
TOTALS CARRIED TO SHEET P.294				0	37	2246	73410	73410	0	0	0	17305	105	12074	0	12123	94	3554	2953	38	0	0	

PAVEMENT SUBSUMMARY

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

DESIGNER ASEP
REVIEWER KKP 05/01/26
PROJECT ID 105743
SHEET P.291 TOTAL P.1274

MODEL: Unnamed Plan - SB Sheet 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 12:04:17 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GS001.dgn

STATION TO STATION			SIDE	202 WEARING COURSE REMOVED SY	204 PROOF ROLLING HOUR	206 CEMENT TON	206 CURING COAT SY	206 CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP SY	254 PAVEMENT PLANING, ASPHALT CONCRETE, T=1.5" SY	254 PAVEMENT PLANING, ASPHALT CONCRETE, T=3.25" SY	254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (T=0" MIN, 6.8" MAX) SY	302 ASPHALT CONCRETE BASE, AS PER PLAN , 25.0MM GYRATORY MIX, T = 8.5" CY	302 ASPHALT CONCRETE BASE, PG64-22, (449), AS PER PLAN (VARIABLE) CY	304 AGGREGATE BASE, T = 6" CY	407 TACK COAT, 702.13, (0.085 GAL/SQ YD) GAL	407 NON-TRACKING TACK COAT GAL	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN CY	442 ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446), T = 1.75" CY	442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, T = 1.5" CY	442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (449), AS PER PLAN (T= 0" MIN, 4.5" MAX) CY	442 ANTI-SEGREATION EQUIPMENT, SURFACE COURSE, 1.5" DEPTH CY	442 ANTI-SEGREATION EQUIPMENT, INTERMEDIATE COURSE, 1.75" DEPTH CY
IR-77 SB (CONT.)																							
177+83.05	TO	179+70.47	LT		0.65	40	1296	1296				305		216		209	6	62	52				
179+70.47	TO	183+25.00	LT		1.30	79	2591	2591				608		432		419	11	124	104				
183+25.00	TO	188+19.29	LT		2.04	124	4078	4078				958		680		661	15	196	164				
188+19.29	TO	189+33.05	LT		0.51	31	1016	1016				239		169		165	4	49	41				
189+33.05	TO	189+81.71	LT		0.22	14	436	436				103		73		71	2	21	18				
189+81.71	TO	192+12.96	LT		1.11	68	2228	2228				524		371		362	7	107	90				
192+12.96	TO	196+50.00	LT		1.42	86	2841	2841				666		473		458		136	113				
196+50.00	TO	197+50.00	LT		0.33	20	650	650				153		108		105		31	26				
197+50.00	TO	198+50.00	LT		0.34	21	678	678				159		113		107		32	26				
198+50.00	TO	199+38.00	LT		0.30	19	596	596				140		99		95		28	23				
199+38.00	TO	200+62.61	LT		0.40	25	810	810				188		135		130	4	39	32				
200+62.61	TO	201+50.00	LT		0.28	18	568	568				132		95		91		27	23				
201+50.00	TO	204+03.00	LT		0.86	52	1716	1716				399		286		276		82	69				
204+03.00	TO	209+56.00	LT	1506	1.37	83	2740	2740				633		457	128	603		203	171	102			
209+56.00	TO	210+75.00	LT	413	0.29	18	590	590				137		98	35	139		48	40	14			
210+75.00	TO	211+38.00	LT	229	0.16	10	328	328				77		55	19	76		27	22	7			
211+38.00	TO	213+75.00	LT	921	0.59	36	1188	1188				276		198	78	287		101	82	40			
213+75.00	TO	214+76.00	LT	533	0.17	11	338	338				80		56	45	113		42	36	7			
214+76.00	TO	215+25.00	LT	263	0.08	5	153	153				37		25	22	54		20	17	5			
215+25.00	TO	217+53.50	LT	1292	0.33	21	666	666				158		111	110	252		95	82	20			
217+53.50	TO	217+91.00	LT	225	0.06	4	112	112				27		19	19	43		16	14	4			
217+91.00	TO	219+93.40	LT	1452	0.34	21	677	677				160		113	123	232		87	73	22			
219+93.40	TO	220+83.50	LT	275	0.15	10	301	301				72		50	23	79		28	23	10			
220+83.50	TO	225+40.00	LT							2917						317		142	119				
225+40.00	TO	228+99.12	LT							2295						249		112	93				
	TO																						
74+50.00	TO	228+99.12	LT																		2575	3004	
DEDUCT FOR MOMENT SLAB																							
163+17.48	TO	170+98.01	LT									174		123				36	31				
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
TOTALS CARRIED TO SHEET P.294				7109	13	816	26597	26597	0	5212	0	6057	0	4309	602	5593	49	1819	1522	231	2575	3004	

PAVEMENT SUBSUMMARY

DESIGN AGENCY
HNTB

DESIGNER ASEP
REVIEWER KKP 05/01/26
PROJECT ID 105743
SHEET P.292 TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: Unnamed Plan - SB Sheet 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 12:04:17 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@hntb.com WORKSPACE: OHDOTCE.v02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GS001.dgn
pw:\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GS001.dgn

STATION TO STATION			SIDE	202 WEARING COURSE REMOVED SY	204 PROOF ROLLING HOUR	206 CEMENT TON	206 CURING COAT SY	206 CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP SY	254 PAVEMENT PLANING, ASPHALT CONCRETE, T=1.5" SY	254 PAVEMENT PLANING, ASPHALT CONCRETE, T=3.25" SY	254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (T=0" MIN, 6.8" MAX) SY	302 ASPHALT CONCRETE BASE, AS PER PLAN , 25.0MM GYRATORY MIX, T = 8.5" CY	302 ASPHALT CONCRETE BASE, PG64-22, (449), AS PER PLAN (VARIABLE) CY	304 AGGREGATE BASE, T = 6" CY	407 TACK COAT, 702.13, (0.085 GAL/SQ YD) GAL	407 NON-TRACKING TACK COAT GAL	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN CY	442 ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446), T = 1.75" CY	442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, T = 1.5" CY	442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (449), AS PER PLAN (T= 0" MIN, 4.5" MAX) CY	442 ANTI-SEGREATION EQUIPMENT, SURFACE COURSE, 1.5" DEPTH CY	442 ANTI-SEGREATION EQUIPMENT, INTERMEDIATE COURSE, 1.75" DEPTH CY
IR-77 NB																							
74+50.00	TO	75+00.00	RT		0.16	10	325	325				77	57	54		74	2	16	13	20			
75+00.00	TO	75+50.00	RT		0.16	10	325	325				76	43	54		74	2	16	13	15			
75+50.00	TO	76+40.00	RT		0.31	19	610	610				143	37	102		138		29	23	13			
76+40.00	TO	79+00.00	RT		0.85	52	1690	1690				393	13	282		383		81	67	5			
79+00.00	TO	81+05.60	RT		0.67	41	1336	1336				311		223		215		64	53				
81+05.60	TO	83+06.68	RT		0.97	59	1937	1937				456		323		315		93	78				
83+06.68	TO	83+55.66	RT		0.22	14	439	439				104		73		71		21	18				
83+55.66	TO	86+91.23	RT		1.46	88	2914	2914				685		486		472		140	118				
86+91.23	TO	88+75.00	RT		0.73	44	1457	1457				342		243		236	6	70	59				
88+75.00	TO	89+02.52	RT		0.11	7	214	214				51		36		34		10	8				
89+02.52	TO	89+31.99	RT		0.11	7	222	222				53		37		36		11	9				
89+31.99	TO	90+75.00	RT		0.55	34	1104	1104				258		184		176		53	43				
90+75.00	TO	90+80.84	RT		0.02	2	45	45				11		8		7		2	2				
90+80.84	TO	93+96.38	RT		1.13	69	2262	2262				535		377		367		110	90				
93+96.38	TO	96+05.66	RT		0.72	44	1444	1444				337		241		229		69	55				
96+05.66	TO	96+74.63	RT		0.23	15	467	467				110		78		74		22	18				
96+74.63	TO	99+60.00	RT		0.93	56	1855	1855				435		309		299	9	89	74				
99+60.00	TO	99+90.00	RT		0.10	7	203	203				48		34		32		10	8				
99+90.00	TO	100+57.43	RT		0.23	14	457	457				107		76		72		22	18				
100+57.43	TO	100+75.00	RT		0.06	4	116	116				28		19		19		6	5				
100+75.00	TO	101+85.51	RT		0.36	22	727	727				172		121		118		35	29				
101+85.51	TO	102+85.51	RT		0.33	20	657	657				156		110		107		32	26				
102+85.51	TO	104+21.25	RT		0.54	33	1073	1073				254		179		174		52	43				
104+21.25	TO	106+69.66	RT		1.19	72.00	2377.00	2377.00				562		396		388		116	96				
106+69.66	TO	109+59.45	RT		0.94	57.00	1884.00	1884.00				442		314		304	9	90	75				
109+59.45	TO	112+00.00	RT		0.78	48.00	1564.00	1564.00				367		261		252	7	75	62				
112+00.00	TO	113+20.00	RT		0.406667	25	813	813				190		136		129		39	31				
113+20.00	TO	117+83.77	RT		1.507253	92	3015	3015				700		502		485		144	120				
117+83.77	TO	121+03.53	RT		1.534848	93	3070	3070				724		512		500		147	124				
121+03.53	TO	121+54.37	RT		0.227085	14	454	454				108		76		74		22	18				
121+54.37	TO	126+05.57	RT		1.930133	117	3860	3860				910		643		627		185	156				
126+05.57	TO	128+21.41	RT		0.845373	52	1691	1691				399		282		274	7	81	68				
128+21.41	TO	129+62.74	RT		0.553543	34	1107	1107				261		185		180		53	45				
129+62.74	TO	132+90.96	RT		1.528958	93	3058	3058				721		510		497		147	124				
132+90.96	TO	133+85.00	RT		0.30563	19	611	611				142		102		98	3	29	24				
133+85.00	TO	134+00.00	RT		0.04875	3	98	98				23		16		16	0	5	4				
134+00.00	TO	139+05.00	RT		1.64125	100	3283	3283				762		547		528	16	157	131				
139+05.00	TO	141+65.00	RT		0.845	52	1690	1690				393		282		272	8	81	68				
141+65.00	TO	142+65.00	RT		0.338889	21	678	678				159		113		107		32	26				
142+65.00	TO	145+04.30	RT		0.777725	47	1555	1555				361		259		250	7	74	62				
145+04.30	TO	146+42.86	RT		0.45032	28	901	901				210		150		145		43	36				
146+42.86	TO	148+68.13	RT		1.083173	66	2166	2166				506		361		351		104	88				
148+68.13	TO	149+18.20	RT		0.224063	14	448	448				105		75		73		22	18				
149+18.20	TO	149+20.00	RT		0.00815	1	16	16				4		3		3		1	1				
149+20.00	TO	151+80.00	RT		1.138944	69	2278	2278				532		380		369		109	92				
151+80.00	TO	152+93.92	RT		0.477198	29	954	954				223		159		154		46	38				
152+93.92	TO	155+00.00	RT		0.827526	50	1655	1655				386		276		268	6	79	67				
155+00.00	TO	161+68.10	RT		2.475682	150	4951	4951				1156		825		787		236	191				
165+25.00	TO	167+80.00	RT		0.864167	53	1728	1728				404		288		274		82	66				
167+80.00	TO	168+90.00	RT		0.372778	23	746	746				174		124		118		35	29				
168+90.00	TO	169+18.80	RT		0.092	6	184	184				44		26		30		9	7				
169+18.80	TO	169+80.14	RT		0.195947	12	392	392				96		55		65		19	16				
169+80.14	TO	171+00.00	RT		0.393984	24	788	788				187		112		128		38	31				
171+00.00	TO	172+95.00	RT		0.63375	39	1268	1268				295		211		204	6	61	51				
172+95.00	TO	175+00.00	RT		0.66625	41	1333	1333				310		222		214	6	64	53				
175+00.00	TO	176+48.00	RT		0.472778	29	946	946				224		134		155		46	38				
176+48.00	TO	178+71.64	RT		0.72683	44	1454	1454				338		242		234	7	69	58				
178+71.64	TO	181+23.93	RT		0.819943	50	1640	1640				381		273		264		78	65				
181+23.93	TO	182+99.10	RT		0.569302	35	1139	1139				265		190		183	5	54	45				
182+99.10	TO	183+99.10	RT		0.325	20	650	650				151		108		105	3	31	26				
183+99.10	TO	187+53.64	RT		1.250738	76	2501	2501				582		417		403	11	120	100				
187+53.64	TO	188+19.29	RT		0.25257	16	505	505				118		84		82	2	24	20				
188+19.29	TO	188+68.64	RT		0.196303	12	393	393				92		65		63	2	19	16				
TOTALS CARRIED TO SHEET P.294				0	41	2497	81723	81723	0	0	0	19149	150	13565	0	13375	124	3919	3256	53	0	0	

PAVEMENT SUBSUMMARY

DESIGN AGENCY
HNTB

DESIGNER ASEP
REVIEWER KKP 05/01/26
PROJECT ID 105743
SHEET P.293 TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: Unnamed Plan - NB Sheet 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 12:04:18 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@mtb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GS001.dgn

STATION TO STATION			SIDE	202 WEARING COURSE REMOVED SY	204 PROOF ROLLING HOUR	206 CEMENT TON	206 CURING COAT SY	206 CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP SY	254 PAVEMENT PLANING, ASPHALT CONCRETE, T=1.5" SY	254 PAVEMENT PLANING, ASPHALT CONCRETE, T=3.25" SY	254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (T=0" MIN, 6.8" MAX) SY	302 ASPHALT CONCRETE BASE, AS PER PLAN , 25.0MM GYRATORY MIX, T = 8.5" CY	302 ASPHALT CONCRETE BASE, PG64-22, (449), AS PER PLAN (VARIABLE) CY	304 AGGREGATE BASE, T = 6" CY	407 TACK COAT, 702.13, (0.085 GAL/SQ YD) GAL	407 NON-TRACKING TACK COAT GAL	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN CY	442 ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446), T = 1.75" CY	442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, T = 1.5" CY	442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (449), AS PER PLAN (T= 0" MIN, 4.5" MAX) CY	442 ANTI-SEGREATION EQUIPMENT, SURFACE COURSE, 1.5" DEPTH CY	442 ANTI-SEGREATION EQUIPMENT, INTERMEDIATE COURSE, 1.75" DEPTH CY
IR-77 NB (CONT.)																							
188+68.64	TO	191+07.29	RT		1.12	68	2234	2234				522		372		362	7	107	90				
191+07.29	TO	194+71.85	RT		1.18	72	2370	2370				556		395		383		113	95				
194+71.85	TO	197+12.01	RT		0.78	48	1561	1561				366		260		252	7	75	62				
197+12.01	TO	197+50.00	RT		0.13	8	255	255				60		42		41	1	12	10				
197+50.00	TO	198+12.01	RT		0.23	15	468	468				110		78		74		22	18				
198+12.01	TO	198+50.00	RT		0.15	10	300	300				71		50		48		14	12				
198+50.00	TO	199+38.00	RT		0.33	21	670	670				158		112		109		32	27				
199+38.00	TO	201+36.65	RT		0.78	47	1556	1556				366		259		252		75	63				
201+36.65	TO	203+83.61	RT		1.15	70	2305	2305				542		384		375		111	93				
203+83.61	TO	208+08.00	RT		1.36	82	2711	2711				636		452		438		130	108				
208+08.00	TO	208+40.00	RT		0.07	5	149	149			48	36		25		30		10	8	0			
208+40.00	TO	209+40.00	RT		0.23	15	467	467			209	111		78		99		33	27	0			
209+40.00	TO	209+56.00	RT		0.04	3	75	75			43	18		12		17		6	5	0			
209+56.00	TO	211+33.75	RT		0.30	18	593	593			711	140		99		174		63	53	3			
211+33.75	TO	211+38.00	RT		0.01	1	14	14			17	4		2		4	1	2	1	1			
211+38.00	TO	213+21.25	RT		0.31	19	611	611			733	145		102		180	6	65	55	1			
213+21.25	TO	214+76.00	RT		0.25	16	504	504			620	119		84		150		55	46	0			
214+76.00	TO	215+28.92	RT		0.08	5	164	164			215	39		27		51		18	16	1			
215+28.92	TO	216+25.47	RT		0.15	10	299	299			412	71		50		95		35	30	7			
216+25.47	TO	217+91.00	RT		0.26	16	525	525			838	124		88		179		66	57	18			
217+91.00	TO	219+08.18	RT		0.19	12	381	381			743	91		64		144		55	46	38			
219+08.18	TO	219+81.74	RT		0.12	8	245	245			209	58		41		63		22	18	18			
219+81.74	TO	220+31.74	RT		0.08	6	167	167			148	40		28		43		15	13	1			
220+31.74	TO	220+83.50	RT		0.09	6.00	173.00	173.00			159	41		29		45		16	13	1			
220+83.50	TO	225+40.00	RT							2917						317		142	119	11			
225+40.00	TO	227+98.78	RT							1568						169		75	63	7			
																					2558	2984	
74+50.00	TO	227+98.78	RT																				
RAMP C1																							
112+00.00	TO	113+76.65	LT/RT						712							39			30				
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
	TO																						
TOTALS FROM THIS SHEET				0	9	581	18797	18797	712	4485	5105	4424	0	3133	0	4133	22	1369	1178	107	2558	2984	
TOTALS FROM P.291				0	37	2246	73410	73410	0	0	0	17305	105	12074	0	12123	94	3554	2953	38	0	0	
TOTALS FROM P.292				7109	13	816	26597	26597	0	5212	0	6057	0	4309	602	5593	49	1819	1522	231	2575	3004	
TOTALS FROM P.293				0	41	2497	81723	81723	0	0	0	19149	150	13565	0	13375	124	3919	3256	53	0	0	
TOTALS CARRIED TO GENERAL SUMMARY				7109	100	6140	200527	200527	712	9697	5105	46935	255	33081	602	35224	289	10661	8909	429	5133	5988	

DESIGN AGENCY
HNTB
DESIGNER
ASEP
REVIEWER
KKP 05/01/26
PROJECT ID
105743
SHEET P.294 TOTAL P.1274

MODEL: Unnamed Plan - NB Sheet 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 12:04:19 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: kperkins@mtb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\S - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\05743-00-Engineering\RoadwaySheets\105743_GS001.dgn

STATION TO STATION			SIDE	204 SUBGRADE COMPACTION SY	204 PROOF ROLLING HOUR	206 CEMENT TON	206 CURING COAT SY	206 CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP SY	304 AGGREGATE BASE, T = 4" CY	304 AGGREGATE BASE, T = 6" CY	304 AGGREGATE BASE, T=8" CY	304 AGGREGATE BASE, T=12" CY	407 TACK COAT, 702.13(0.085 GAL/SQ YD) GAL	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22, T=1.25" CY	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), T=1.75" CY	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN CY	442 ANTI-SEGREATION EQUIPMENT, SURFACE COURSE, 1.5" DEPTH CY	442 ANTI-SEGREATION EQUIPMENT, INTERMEDIATE COURSE, 1.75" DEPTH CY	452 12" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P SY
I.R. 77 ITS DRIVE																				
50+96.87	TO	52+77.00	LT	201								67				6				
RAMP A3																				
302+00.00	TO	303+72.75	LT		0.27	16	537	537		90										490
303+72.75	TO	306+52.63	LT		0.44	26	871	871		145										793
306+52.63	TO	307+02.63	LT		0.08	5	161	161		27										148
300+58.83	TO	301+46.33	LT		0.14	9	282	282		47							3			258
300+00.00	TO	302+00.00	LT		3.42	207	760	760	23	127										686
RAMPA4																				
401+00.00	TO	405+69.77	RT		0.73		1462	1462		244										1305
400+00.00	TO	401+00.00	RT		1.64	99	364	364		61										342
400+95.00	TO	401+95.00	RT														3			
RAMP B1																				
104+35.01	TO	105+50.00	RT		0.19	12	385	385		64							4			405
105+50.00	TO	105+70.22	RT		0.03	2	69	69		11							1			73
105+70.22	TO	106+00.00	RT		0.05	3	104	104		17										94
106+00.00	TO	107+25.00	RT		0.24	14	477	477		79										443
107+25.00	TO	108+08.00	RT		0.18	11	366	366		61										343
108+08.00	TO	108+20.00	RT		0.03	2	55	55		9										53
108+20.00	TO	109+15.89	RT		0.21	13	426	426		71										405
RAMPB2																				
202+62.20	TO	204+25.76	LT		0.25	15	510	510		85							5			466
204+25.76	TO	204+73.30	LT		0.07	4	149	149		25										137
RAMP B3																				
301+70.17	TO	301+95.52	LT		0.06	3	113	113		19										108
301+95.52	TO	302+50.00	LT		0.12	7	242	242		40							2			231
302+50.00	TO	303+50.00	LT		0.20	12	399	399		66							3			377
303+50.00	TO	304+80.00	LT		0.22	13	432	432		72							4			389
304+80.00	TO	307+12.85	LT		0.36	22	724	724		121							7			647
307+12.85	TO	307+62.85	LT		0.08	5	161	161		27							2			145
RAMP B4																				
401+75.00	TO	402+00.00	RT		0.04	2	76	76		13										68
402+00.00	TO	405+22.55	RT		0.50	30	1003	1003		167										896
RAMP C1																				
104+81.00	TO	105+04.33	RT		0.04	2	75	75		13										70
105+04.33	TO	105+31.00	RT		0.04	3	86	86		14							1			81
105+31.00	TO	110+04.33	RT		0.74	44	1473	1473		245							15			1368
110+04.33	TO	110+70.00			0.10	6	204	204		34										190
110+70.00	TO	111+20.00	RT		0.08	5	153	153		25										142
111+20.00	TO	112+00.00	RT		0.12	7	240	240		40										223
RAMP C2																				
201+50.00	TO	202+40.00	LT		0.14	8	270	270		45										260
202+40.00	TO	203+00.00	LT		0.09	5	177	177		29										170
203+00.00	TO	203+89.76	LT		0.13	8	259	259		43										245
203+89.76	TO	204+28.48	LT		0.06	3	115	115		19										109
RAMP C3																				
300+46.76	TO	300+75.00	RT		0.40	24	90	90		15										84
300+75.00	TO	300+81.95	RT		0.01	1	22	22		4										20
300+81.95	TO	302+82.32	RT		0.31	19	623	623		104							6			579
302+82.32	TO	304+21.41	RT		0.22	13	433	433		72										402
RAMP D1																				
103+45.15	TO	103+95.15	RT		0.09	5	172	172		29							2			157
103+95.15	TO	104+50.00	RT		0.09	5	171	171		28							2			156
104+50.00	TO	106+46.05	RT		0.30	18	610	610		102										556
106+45.05	TO	106+50.00	RT		0.01	0	15	15		3										15
TOTALS CARRIED TO P.296				201	13	711	15316	15316	23	2552	0	67	0	0	0	66	0	0	14130	

CUY-77-11.41 - PART 1

PAVEMENT SUBSUMMARY

DESIGN AGENCY
HNTB

DESIGNER ASEP
REVIEWER KKP 05/01/26
PROJECT ID 105743
SHEET P.295 TOTAL P.1274

MODEL: Unnamed Plan - Ramp Subsum [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 10:30:05 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: smaht@hntb.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.03.05
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GS001.dgn

STATION TO STATION			SIDE	204 SUBGRADE COMPACTION SY	204 PROOF ROLLING HOUR	206 CEMENT TON	206 CURING COAT SY	206 CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP SY	304 AGGREGATE BASE, T = 4" CY	304 AGGREGATE BASE, T = 6" CY	304 AGGREGATE BASE, T=8" CY	304 AGGREGATE BASE, T=12" CY	407 TACK COAT, 702.13 GAL	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22, T=1.25" CY	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), T=1.75" CY	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN CY	442 ANTI-SEGREATION EQUIPMENT, SURFACE COURSE, 1.5" DEPTH CY	442 ANTI-SEGREATION EQUIPMENT, INTERMEDIATE COURSE, 1.75" DEPTH CY	452 12" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P SY
RAMP D2																				
202+86.05	TO	205+90.00	LT		0.47	29	946	946		158						9				845
RAMP E1																				
105+70.26	TO	106+20.26	RT		0.08	5	161	161		27										145
106+20.26	TO	110+50.00	RT		0.67	40	1337	1337		223										1194
110+50.00	TO	111+50.00	RT		0.16	9	311	311		59										323
111+50.00	TO	113+78.06	RT		4.90	296	1089	1089	45	182										1029
WEST MUP																				
5+25.95	TO	5+55.78									9		2	2	2					
5+55.78	TO	18+80.23		1472	0.74						328		88	52	72					
18+80.23	TO	30+33.94		1539	0.77						342		92	54	75					
INTERSECTION (THROUGH 31+37.19)																				
31+37.19	TO	52+69.01		3317	1.66						737		199	116	162					
EAST MUP																				
20+07.98	TO	21+50.79		318	0.16						71		19	12	16					
21+50.79	TO	26+22.90		525	0.26						117		31	19	26					
26+22.90	TO	26+58.61		47							11		3	2	3					
RUFFINI COURT																				
30+11.00 (MUP WEST)	TO	30+35.00 (MUP WEST)			0.02	1	37	37		6										49
RAMP A3																				
202+86.05	TO	I.R.77 - 89+37.30															32	38		
RAMPA4																				
401+00.00	TO	I.R.77 - 96+05.66															83	96		
RAMP B1																				
I.R.77 - 101+85.51	TO	104+35.01															29	34		
RAMPB2																				
I.R.77 - 93+55.21	TO	202+62.20															83	96		
RAMP B3																				
301+70.17	TO	I.R.77 - 127+06.71															44	51		
RAMP B4																				
401+75.00	TO	I.R.77 - 128+04.84															73	85		
RAMP C1																				
I.R. - 128+04.84	TO	104+81.00															34	39		
RAMP C2																				
201+50.00	TO	I.R.77 - 157+34.38															40	47		
RAMP C3																				
300+46.76	TO	I.R.77 - 161+68.10															83	97		
RAMP D1																				
I.R.77 - 182+99.10	TO	103+45.15															46	54		
RAMP D2																				
I.R.77 - 176+83.05	TO	202+86.05															84	98		
RAMP E1																				
I.R.77 - 197+12.01	TO	105+70.26															40	47		
TOTALS FROM THIS SHEET				7218	10	380	3881	3881	45	655	1615	0	434	257	356	9	671	783	3585	
TOTALS FROM P.295				201	13	711	15316	15316	23	2552	0	67	0	0	0	66	0	0	14130	
TOTALS CARRIED TO THE GENERAL SUMMARY				7419	22	1091	19197	19197		4957			434	257	356	75	671	783	17715	

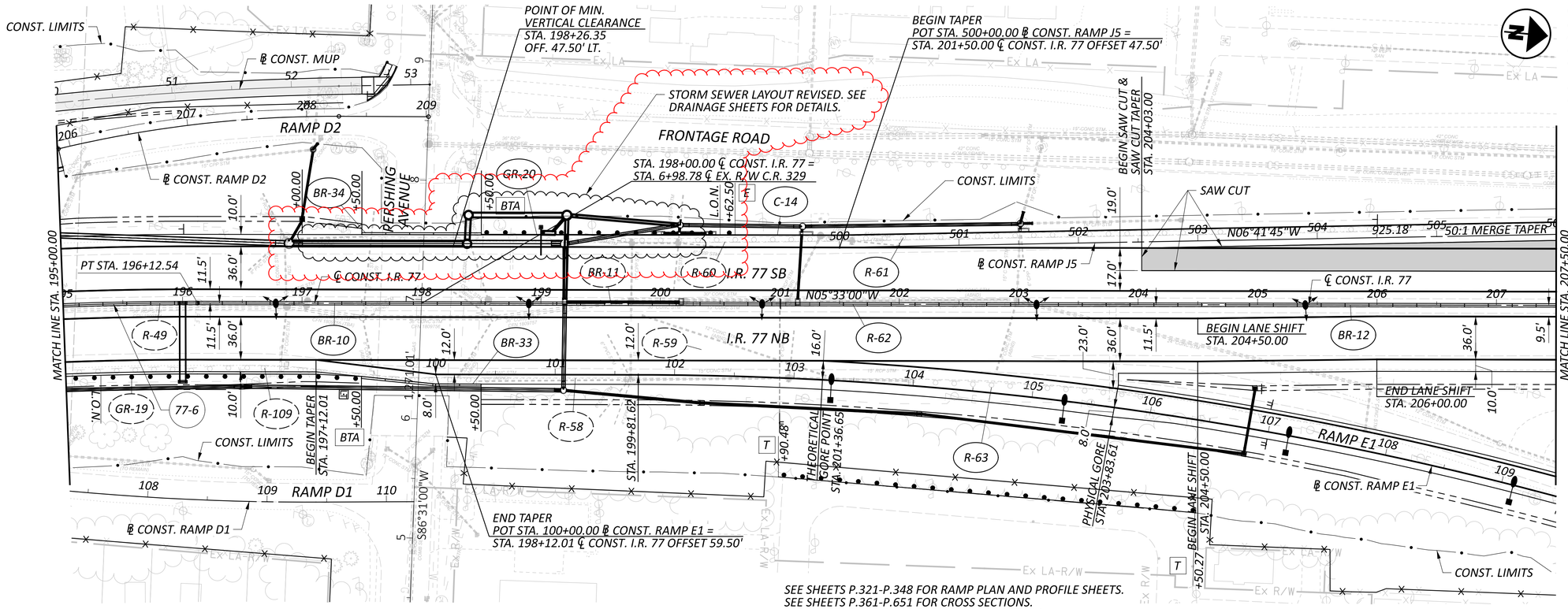
PAVEMENT SUBSUMMARY

CUY-77-11.41 - PART 1

DESIGN AGENCY
HNTB

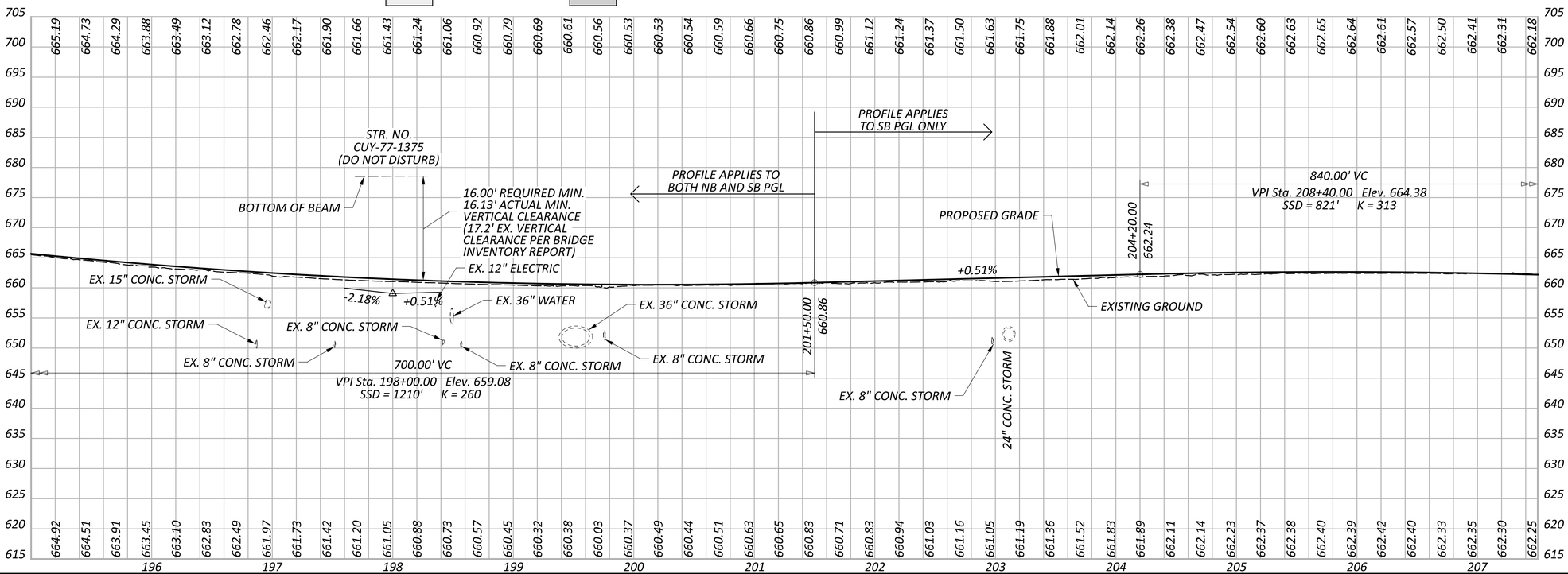
DESIGNER ASEP
REVIEWER KKP 05/01/26
PROJECT ID 105743
SHEET P.296 TOTAL P.1274

MODEL: Unnamed Plan - MUP-Ramp Subsum [Sheet] PAPERSIZE: 24x22 (in) DATE: 1/12/2026 TIME: 10:54:18 PM USER: kpatton
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GS001.dgn



SEE SHEETS P.321-P.348 FOR RAMP PLAN AND PROFILE SHEETS.
SEE SHEETS P.361-P.651 FOR CROSS SECTIONS.
SEE SHEETS P.711-P.832 FOR DRAINAGE DETAILS.
SEE SHEETS P.348-P.360 FOR MUP PLAN AND PROFILE SHEETS.
SEE SHEETS P.699-P.708 FOR CURB RAMP DETAILS.

MULTI-USE PATH I.R. 77 RESURFACING



MODEL: CLP_i077 - Plan 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 10:40:04 AM USER: smain
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_GP104.dgn

CUY-77-11.41 - PART 1

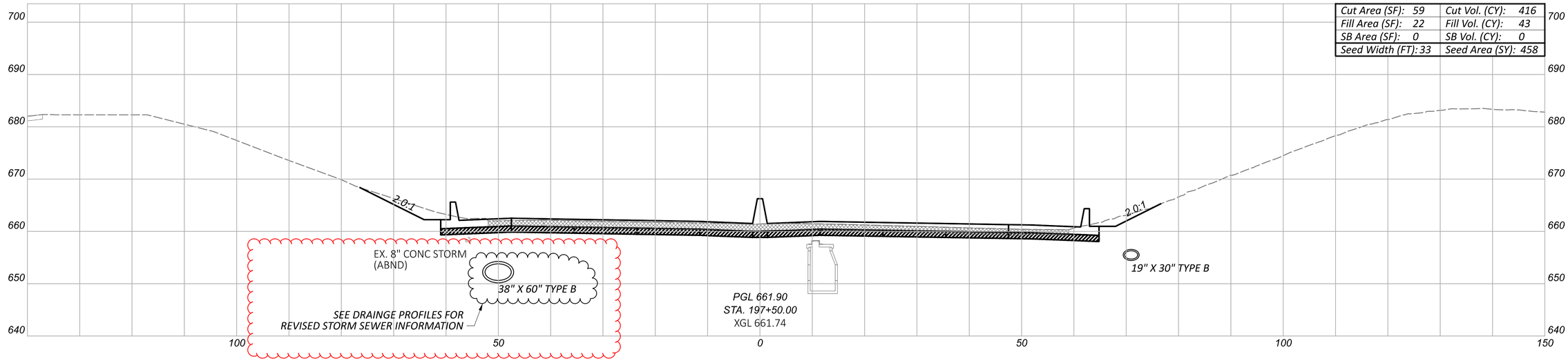
PLAN AND PROFILE - I.R. 77
STA. 195+00.00 TO STA. 207+50.00

DESIGN AGENCY
HNTB

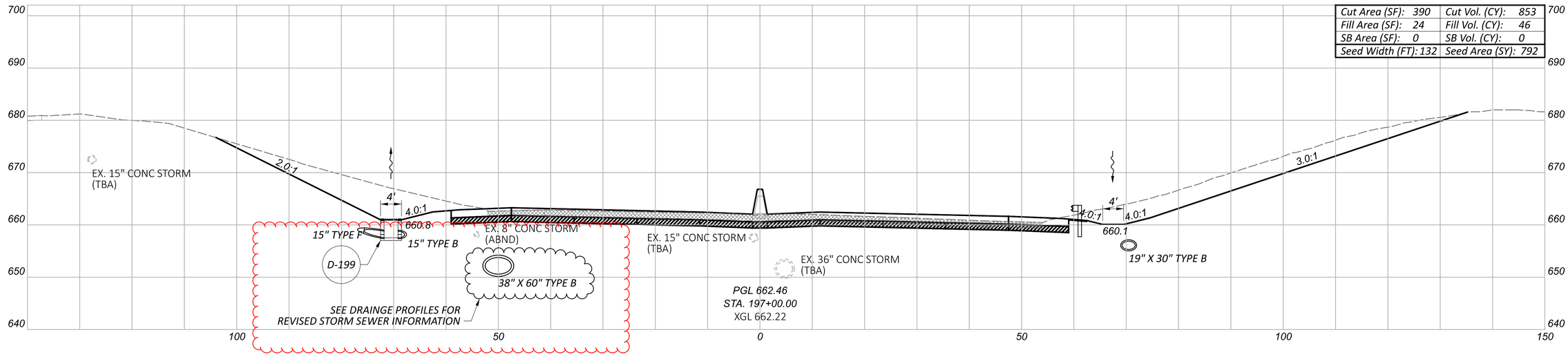
DESIGNER EAP
REVIEWER KKP 04/01/22
PROJECT ID 105743
SHEET P.315 TOTAL P.1274

SEE SHEET P.361 FOR CROSS SECTION LEGEND AND NOTES

Cut Area (SF): 59	Cut Vol. (CY): 416
Fill Area (SF): 22	Fill Vol. (CY): 43
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 33	Seed Area (SY): 458



Cut Area (SF): 390	Cut Vol. (CY): 853
Fill Area (SF): 24	Fill Vol. (CY): 46
SB Area (SF): 0	SB Vol. (CY): 0
Seed Width (FT): 132	Seed Area (SY): 792



CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 197+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 7:03:57 AM USER: smain
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

CROSS SECTIONS - I.R. 77
STA. 197+00.00 TO STA. 197+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

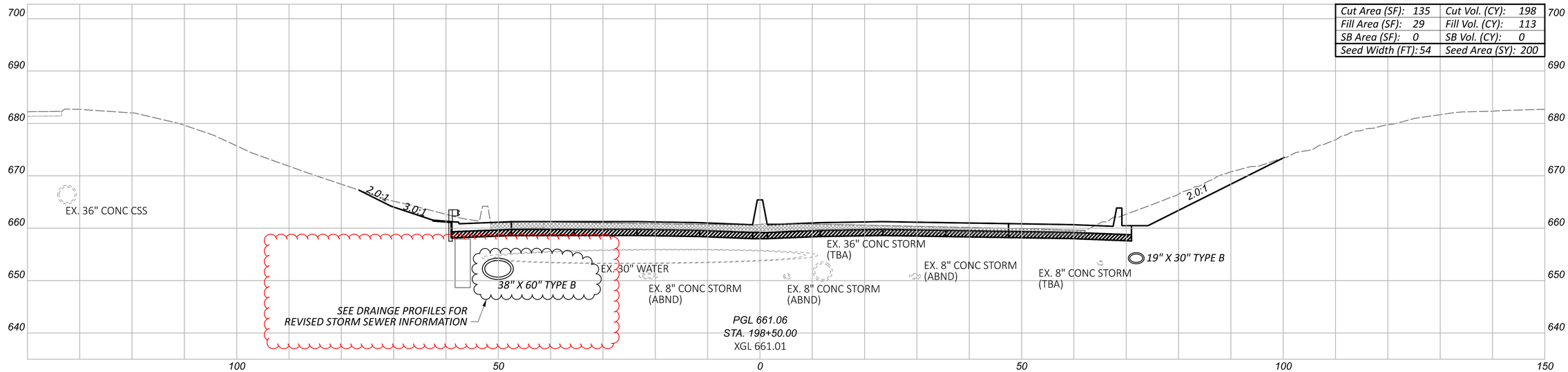
REVIEWER
MTR 04/01/22

PROJECT ID
105743

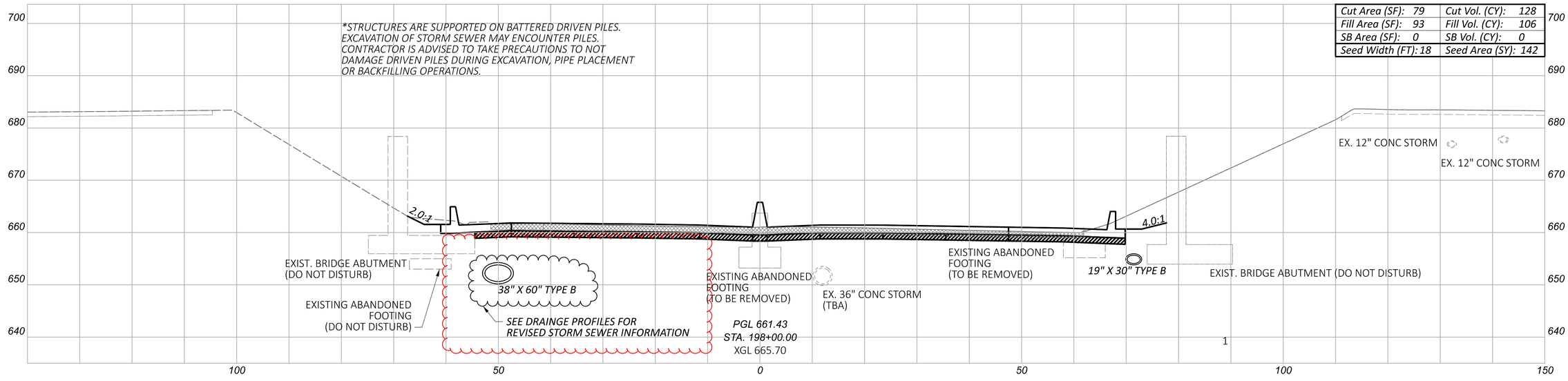
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1250	1269	89	0

SHEET P.483 TOTAL P.1274

SEE SHEET P.361 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	135	Cut Vol. (CY):	198
Fill Area (SF):	29	Fill Vol. (CY):	113
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	54	Seed Area (SY):	200



Cut Area (SF):	79	Cut Vol. (CY):	128
Fill Area (SF):	93	Fill Vol. (CY):	106
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	18	Seed Area (SY):	142

CROSS SECTIONS - I.R. 77
STA. 198+00.00 TO STA. 198+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

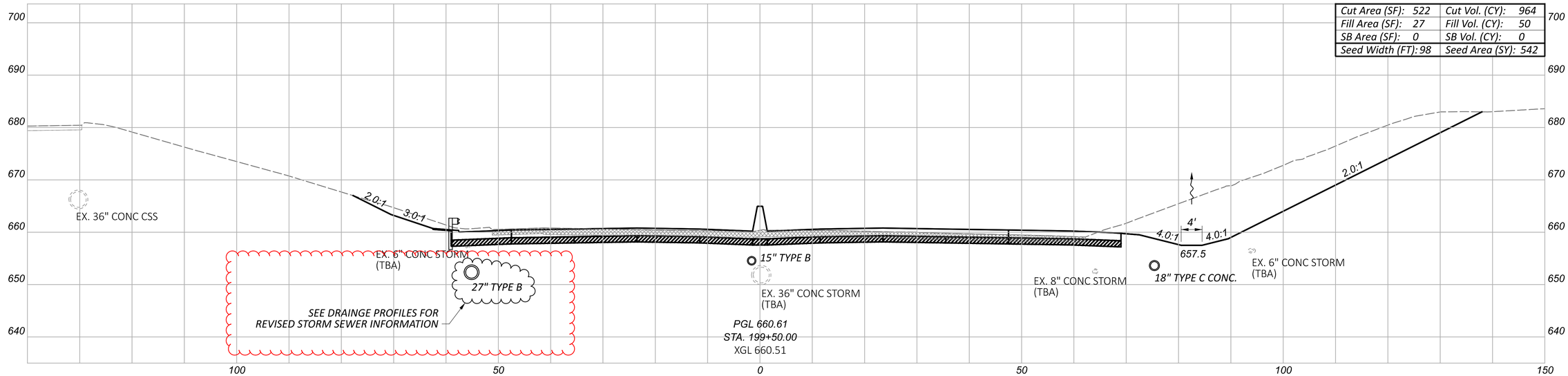
Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
342	326	219	0

SHEET	TOTAL
P.484	P.1274

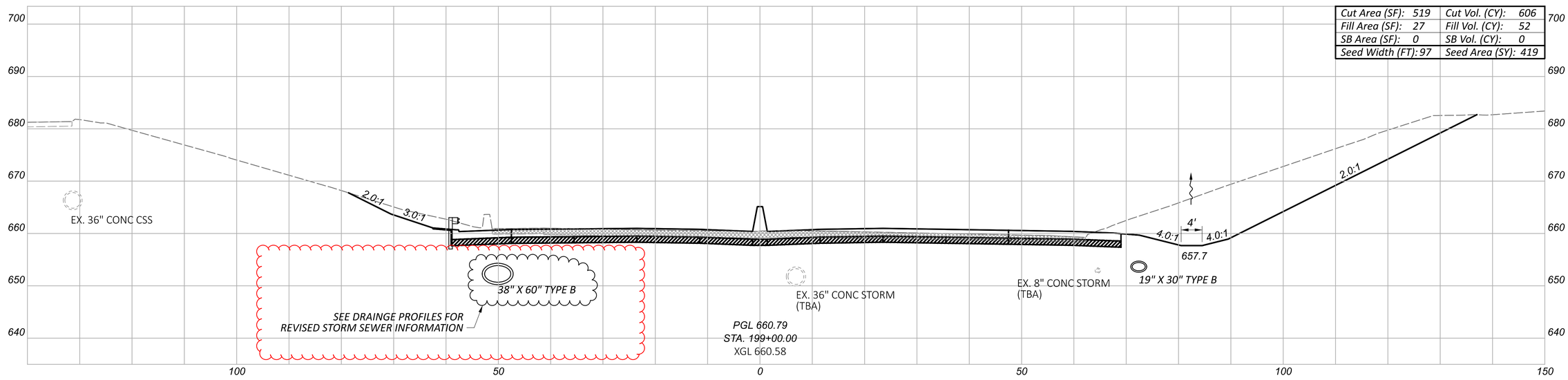
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 198+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 7:04:05 AM USER: smain
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

SEE SHEET P.361 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	522	Cut Vol. (CY):	964
Fill Area (SF):	27	Fill Vol. (CY):	50
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	98	Seed Area (SY):	542



Cut Area (SF):	519	Cut Vol. (CY):	606
Fill Area (SF):	27	Fill Vol. (CY):	52
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	97	Seed Area (SY):	419

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
961	1570	102	0

CROSS SECTIONS - I.R. 77
STA. 199+00.00 TO STA. 199+50.00

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

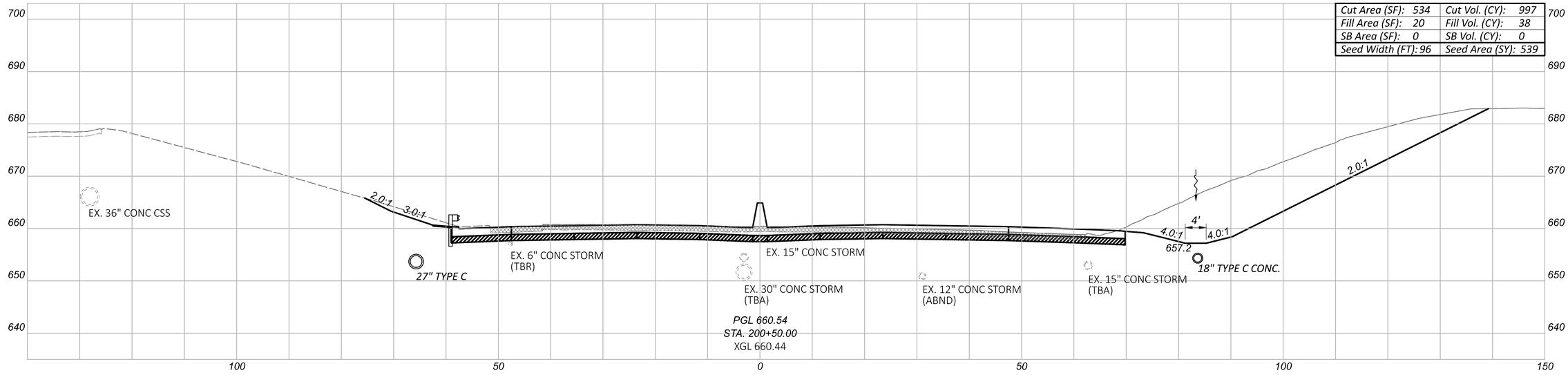
PROJECT ID
105743

SHEET P.485 TOTAL P.1274

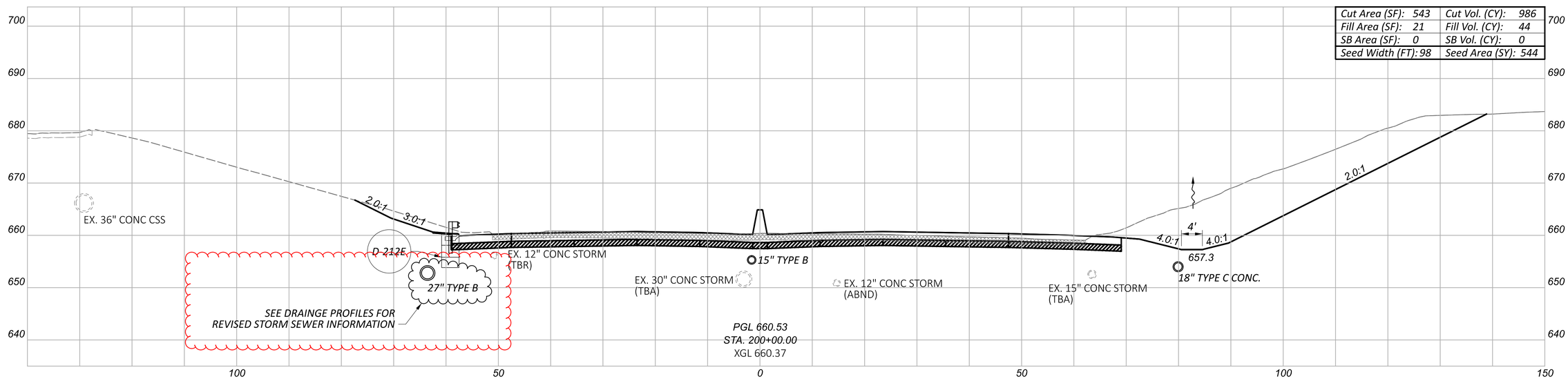
CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 199+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 7:04:10 AM USER: smain
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

SEE SHEET P.361 FOR CROSS SECTION LEGEND AND NOTES



Cut Area (SF):	534	Cut Vol. (CY):	997
Fill Area (SF):	20	Fill Vol. (CY):	38
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	96	Seed Area (SY):	539



Cut Area (SF):	543	Cut Vol. (CY):	986
Fill Area (SF):	21	Fill Vol. (CY):	44
SB Area (SF):	0	SB Vol. (CY):	0
Seed Width (FT):	98	Seed Area (SY):	544

CROSS SECTIONS - I.R. 77
STA. 200+00.00 TO STA. 200+50.00

Sheet Totals			
Seeding (SY)	Cut (CY)	Fill (CY)	SB (CY)
1083	1983	82	0

DESIGN AGENCY
HNTB

DESIGNER
EAP

REVIEWER
MTR 04/01/22

PROJECT ID
105743

SHEET P.486 TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - 200+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 7:04:14 AM USER: smain
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Roadway\Sheets\105743_XS103.dgn

MANHOLES WITHIN PAVEMENT

WHERE THE PLANS INDICATE THAT A PROPOSED MANHOLE BE PLACED WITHIN THE PAVEMENT LIMITS, EXCLUDING MANHOLES INDICATED FOR BOLTED LIDS, THE TOP OF CASTING ELEVATION SHALL BE SET AT THE TOP OF THE COMPACTED ITEM 304 - AGGREGATE BASE. THE LID SHALL BE SOLID WITHOUT HOLES. ONCE EACH MANHOLE IS SET IN PLACE AND PRIOR TO PAVING, A LICENSED SURVEYOR SHALL SURVEY THE CENTER OF THE LID OF EACH BURIED MANHOLE AND FURNISH THE GPS COORDINATES (EASTING, NORTHING) TO THE ENGINEER.

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

THE FOLLOWING IS A LIST OF LOCATIONS WHERE BURIED MANHOLES ARE PROPOSED. STATIONS/OFFSETS SHOWN ARE TO THE CENTER OF THE MANHOLE LID. DESIGN ELEVATIONS AND GPD COORDINATES ARE PROVIDED FOR REFERENCE. CONTRACTOR SHALL FIELD VERIFY THE PROVIDED DATA, AND SUBMIT ANY ADJUSTMENTS USING THE BLANK TABLE BELOW TO THE ENGINEER.

NOTES:

1. FOR BOLTED STRUCTURES, SEE THE AS PER PLAN NOTE ON SHEET P.712.

COORDINATES OF STORM STRUCTURE CASTINGS BURIED IN ASPHALT

STRUCTURE	ALIGNMENT	STATION	OFFSET	SIDE	RIM ELEVATION	NORTHING (Y)	EASTING (X)	RIM ELEVATION FIELD VERIFIED	NORTHING (Y) FIELD VERIFIED	EASTING (X) FIELD VERIFIED
D-13A	I-77	81+67.00	57.00	RT	695.28	647434.995'	2201713.864'			
D-22	I-77	85+99.00	57.50	LT	693.43	647816.431'	2201475.388'			
D-32A	I-77	95+56.94	8.93	LT	694.53	648676.164'	2201080.317'			
D-37	I-77	99+00.00	50.00	LT	690.56	648923.351'	2200839.037'			

COORDINATES OF STORM STRUCTURE CASTINGS BOLTED

STRUCTURE	ALIGNMENT	STATION	OFFSET	SIDE
D-3A	I-77	75+56.50	51.00	LT
D-3B	I-77	77+70.00	50.50	LT
D-3D	I-77	78+50.00	51.00	LT
D-27	I-77	89+10.00	53.00	LT
D-30	I-77	89+98.44	61.06	RT
D-28	I-77	90+00.00	50.00	LT
D-31	I-77	92+94.00	47.00	LT
D-32	I-77	95+65.00	50.00	LT
D-39	I-77	103+77.00	67.00	LT
D-105	RAMP B1	102+10.00	2.00	RT
D-41	I-77	106+08.00	72.00	LT
D-106	RAMP B1	104+23.00	2.00	RT
D-43	I-77	110+80.00	46.50	LT
D-43C	I-77	110+90.00	8.00	LT
D-43D	I-77	111+74.00	8.00	LT
D-43B	I-77	113+39.00	8.00	LT
D-43A	I-77	113+39.00	48.50	LT
D-59	I-77	120+00.00	55.00	LT
D-59A	I-77	120+14.49	79.54	LT
D-61	I-77	125+78.00	62.00	LT
D-64A	I-77	129+06.00	48.00	LT
D-64	I-77	130+65.00	48.00	LT
D-71A	I-77	133+71.00	52.00	LT
D-84	I-77	141+57.00	51.00	LT
D-86	I-77	143+30.00	53.00	LT
D-156	I-77	162+50.00	6.00	RT
D-162	I-77	162+50.00	55.50	LT
D-158A	I-77	163+35.00	8.50	RT
D-151A	I-77	164+70.54	54.00	RT
D-195	I-77	196+89.00	50.00	LT
D-201A	I-77	198+38.10	50.08	LT

STORM STRUCTURE ADJUST TO GRADE AND RECONSTRUCT TO GRADE ELEVATION TABLE

STRUCTURE	EXISTING RIM ELEVATION	PROPOSED RIM ELEVATION
DZ-1	720.27	721.41
DZ-2	643.82	643.82
DZ-3	655.50	652.27
DZ-4A	665.45	663.10
DZ-4B	661.24	661.24
DZ-4	658.97	658.97
DZ-5	657.95	657.95
DZ-6	657.95	657.95
DZ-8	682.45	680.01
DZ-9	672.47	672.47
DZ-10	676.57	676.57
DZ-11	672.47	672.47
DZ-12	659.58	659.58
DZ-14	656.84	659.23
DZ-16	655.61	655.74
DZ-18	652.36	652.24
DZ-19	651.17	651.22
DZ-20	649.59	649.81
DZ-21	649.91	649.95
DZ-21A	650.61	650.63
DZ-22	649.48	649.70
DZ-23	649.60	649.85
DZ-24	650.94	650.94
DZ-25	650.48	650.56
DZ-26	651.88	651.91
DZ-27	652.14	652.18
DZ-28	654.14	654.14
DZ-29	656.99	657.41
DZ-31	656.32	656.35
DZ-32	644.27	643.88

DESIGN AGENCY
AECOM
DESIGNER SMS
REVIEWER MAW 03/14/26
PROJECT ID 105743
SHEET P.714 TOTAL P.1274

CUY-77-11.41 - PART 1
MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 11:09:53 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DN002.dgn
sydney.stefanek@aecom.com

STORM STRUCTURE UNDERDRAIN INVERTS												STORM STRUCTURE UNDERDRAIN INVERTS												STORM STRUCTURE UNDERDRAIN INVERTS											
STRUCT.	GRATE	STORM SEWER RUN	DIR. #1	U.D. RUN #1	U.D. INVERT #1	DIR. #2	U.D. RUN #2	U.D. INVERT #2	DIR. #3	U.D. RUN #3	U.D. INVERT #3	STRUCT.	GRATE	STORM SEWER RUN	DIR. #1	U.D. RUN #1	U.D. INVERT #1	DIR. #2	U.D. RUN #2	U.D. INVERT #2	DIR. #3	U.D. RUN #3	U.D. INVERT #3	STRUCT.	GRATE	STORM SEWER RUN	DIR. #1	U.D. RUN #1	U.D. INVERT #1	DIR. #2	U.D. RUN #2	U.D. INVERT #2	DIR. #3	U.D. RUN #3	U.D. INVERT #3
D-2	718.91	C	S	UD-12	715.81							D-53	671.50	S	W	UD-72	669.00							D-107	678.97	P	S	UD-78	675.82						
D-2A	717.25	B	S	UD-14	714.27							D-54	676.06	S	S	UD-84	673.06							D-110	721.14	BS	E	UD-10	718.15						
D-3B	696.49	A	S	UD-2B	684.80							D-56	665.80	U	S	UD-90	662.77							D-111	720.46	BR	W	UD-8	717.50						
D-3C	696.05	BT	S	UD-1	693.03							D-57	664.19	UU	S	UD-101	661.27	W	UD-92	661.16	N	UD-106	660.74	D-150	680.58	AL	S	UD-197	677.56	W	UD-196	676.47			
D-4A	700.74	A	S	UD-6A	695.79							D-57A	664.54	UU	SE	UD-99	661.71	NE	UD-107	660.62				D-151A	678.16	AL	W	UD-200	674.15						
D-4B	700.01	A	S	UD-4B	697.01							D-58	665.29	V	S	UD-93	662.28	W	UD-94	662.36				D-152	677.65	AL	S	UD-199	674.63						
D-4C	699.26	A	S	UD-1B	696.25							D-59A	663.35	A	S	UD-97	659.99							D-154	677.53	AL	S	UD-214	674.44	N	UD-217	674.44			
D-4	697.74	D	S	UD-6	694.73	W	UD-5	693.56				D-60	663.48	W	E	UD-95	659.88	W	UD-98	660.61				D-155	677.76	AL	N	UD-218	674.68						
D-5	696.21	B	S	UD-4	693.17							D-61	655.67	A	W	UD-112	652.28							D-157	677.55	AO	S	UD-195	674.54						
D-6	694.67	B	S	UD-13	691.67	E	UD-3	691.66				D-63	653.36	X	S	UD-103	650.32	W	UD-102	650.41				D-158	676.99	AO	S	UD-204	673.96						
D-8	696.40	D	S	UD-20	693.40	E	UD-9	693.23				D-65	649.57	Y	S	UD-118	646.53							D-159	676.74	AO	S	UD-206	673.69	N	UD-211	673.69			
D-9	694.11	E	S	UD-18	691.09							D-66	649.41	Z	S	UD-121	646.37	N	UD-127	646.37				D-160	676.84	AO	N	UD-215	673.81						
D-10	692.57	E	S	UD-21	689.58							D-67	649.63	Z	N	UD-131	646.59							D-161	677.90	AL	N	UD-219	674.88						
D-10A	693.08	BC	S	UD-15	690.09							D-68	650.88	Z	N	UD-130	647.84							D-162	676.46	AN	S	UD-203	673.26						
D-11	702.65	E	S	UD-14A	699.45							D-69	650.88	Y	S	UD-120	647.77							D-163	677.95	AK	S	UD-198	674.91	E	UD-194	675.04			
D-12	693.23	A	W	UD-11	689.74							D-70	650.89	Z	S	UD-122	647.85	E	UD-119	646.85	N	UD-129	647.85	D-163A	679.46	AK	S	UD-191	676.42						
D-13	693.85	E	W	UD-7	690.57							D-71A	652.96	A	W	UD-138	649.57	N	UD-139	649.98				D-164	675.86	AK	S	UD-205	672.83						
D-14	693.94	F	S	UD-26	690.91	N	UD-30	690.91	E	UD-19	691.59	D-72	651.50	AB	E	UD-146	651.73							D-165	675.61	AK	S	UD-207	672.57	E	UD-201	672.69	N	UD-208	672.58
D-15	692.72	G	S	UD-28	689.42	E	UD-17	689.42	N	UD-33	689.42	D-73	652.36	AD	N	UD-137	649.31							D-166	675.88	AK	N	UD-213	672.86						
D-15C	692.43	G	S	UD-25	689.44							D-74	652.19	AC	N	UD-134	649.18							D-166A	676.19	AK	N	UD-216	673.17						
D-16	694.10	F	N	UD-35	691.07							D-75	651.68	AC	W	UD-135	648.70	N	UD-136	648.66				D-167	677.62	AK	E	UD-220	674.69	N	UD-228	674.62			
D-17	692.65	G	N	UD-36	689.69							D-76	658.68	AE	N	UD-141	655.67							D-183	680.12	AR	S	UD-227	676.95	E	UD-228	677.45			
D-17A	692.50	G	N	UD-34	689.45							D-76A	658.82	AE	N	UD-140	655.65							D-183A	677.08	AR	SE	UD-226	675.60						
D-18	692.19	G	S	UD-38	689.08	E	UD-39	689.08	N	UD-40	689.08	D-77	665.36	AF	N	UD-147	662.37							D-184	681.07	AR	S	UD-299	678.06						
D-19	692.35	G	S	UD-24	689.25							D-78	665.69	AF	N	UD-148	662.43							D-187A	678.00	AS	SE	UD-235	676.10						
D-21	692.33	H	N	UD-42	689.27							D-79	684.21	AC	N	UD-152	681.17							D-187	676.72	AS	S	UD-232	673.52	W	UD-233	673.61			
D-21A	692.13	H	N	UD-41	689.08							D-80	673.42	AC	N	UD-149	670.37							D-188	675.90	AT	S	UD-230	673.06	W	UD-231	673.02			
D-23	695.80	H	N	UD-44	692.78							D-81	654.89	AG	W	UD-143	651.91	N	UD-142	651.88				D-189	669.22	AT	S	UD-241	666.58						
D-24	693.59	H	N	UD-43	690.54							D-81A	658.49	AC	N	UD-150	655.48	W	UD-151	655.47				D-189A	673.09	AT	S	UD-236	670.05						
D-26	695.21	I	N	UD-45	692.15							D-82	655.10	AG	N	UD-144	652.10							D-190	669.11	AT	S	UD-244	666.47	W	UD-243	666.51	N	UD-245	666.48
D-28	696.44	A	N	UD-32A	693.37							D-84	663.61	AB	E	UD-144A	658.65							D-191	669.35	AT	N	UD-249	666.74						
D-31	695.91	A	S	UD-47	692.73							D-84A	661.46	AC	W	UD-155	658.48	N	UD-157	658.41				D-193	668.16	AU	SE	UD-239	665.08						
D-31C	695.35	K	S	UD-46	692.34							D-85	663.11	BG	N	UD-153	660.11							D-193A	670.47	AQ	SE	UD-238	668.66						
D-32	693.76	A	S	UD-53	690.72	E	UD-48	690.77				D-86A	666.95	BL	N	UD-153A	663.93							D-194	667.23	AU	S	UD-240	664.19						
D-32A	694.53	L	E	UD-49	691.38							D-87	663.80	AC	N	UD-160	660.85							D-198	662.39	AT	W	UD-237	660.55						
D-34	696.69	BW	W	UD-50	692.43	S	UD-51	693.65				D-89	676.52	AC	N	UD-176	673.62																		
D-36	693.41	L	S	UD-52	690.40							D-90	674.45	AC	N	UD-172	671.71							D-202	660.20	AW	S	UD-254	657.18						
D-37	690.56	A	S	UD-59	688.44	E	UD-58	688.46				D-91	670.54	AI	N	UD-171	667.49							D-203	660.02	AX	S	UD-259	656.99	N	UD-262	656.99			
D-37A	691.16	M	S	UD-57	688.14							D-92	670.31	AI	S	UD-162	667.31	N	UD-163	667.31				D-204	660.20	AZ	N	UD-267	657.18						
D-38	691.25	M	S	UD-56	688.25							D-93	670.54	AI	S	UD-159	667.49							D-206	657.43	AT	W	UD-256	656.44						
D-38A	692.18	M	W	UD-55	688.40							D-94	670.88	AC	S	UD-158	667.87	W	UD-167	667.91	N	UD-164	667.88	D-208	658.74	AT	W	UD-274	658.09						
D-40	687.24	N	S	UD-60	684.21							D-94A	667.10	AC	N	UD-161	664.06							D-209	659.96	AT	SE	UD-271	657.52	W	UD-275	658.61			
D-41	684.55	A	E	UD-61	679.20	S	UD-68	681.36				D-95	671.86	AH	W	UD-169	668.93	N	UD-168	668.86				D-210	660.31	AW	S	UD-252	657.13	E	UD-253	657.16			
D-44	682.65	P	S	UD-65	679.62							D-95A	672.75	AH	N	UD-170	669.70							D-212	659.78	BP	S	UD-260	656.74	E	UD-263A	656.80	N	UD-264	656.40
D-45	679.24	P	S	UD-69	676.20							D-97	681.03	AJ	E	UD-181	677.04							D-212D	659.78	BP	N	UD-266	656.75						
D-46	678.86	Q	S	UD-75	675.81	W	UD-76	675.91	N	UD-79	675.81	D-98	681.08	AJ	W	UD-177	677.98							D-212E	659.78	BP	S	UD-258	656.75						
D-47	680.98	R	N	UD-82	677.98							D-100	681.28	AB	S	UD-183	678.23	N	UD-185	678.21				D-214	659.98	AZ	N	UD-268	657.00						
D-47A	689.82	S	N	UD-89	686.78							D-101	681.78	AB	S	UD-178	678.84							D-215C	660.84	AQ	N	UD-269	657.85						
D-47B	691.65	BF	N	UD-96	688.61							D-102	681.40	AB	N	UD-187	678.47							D-399	656.05	BJ	S	UD-284	653.12	E	UD-278	653.22			
D-48	675.05	S	S	UD-64A	672.05	W	UD-73	669.13				D-103	681.81	AB	N	UD-190	678.77							D-401	651.35	BA	E	UD-283	648.31						
D-49	679.70	T	N	UD-88	676.66							D-104	684.46	AB	E	UD-174	681.17	N	UD-175	681.35				D-404	651.34	BA	S	UD-280	648.14	N	UD-289	648.10			
D-50	679.39	T	S	UD-83	676.39	E	UD-85	676.38	N	UD-86	676.39	D-105	682.84	P	S	UD-67	679.75	W	UD-64	679.77				D-405	658.33	BI	S	UD-277	655.31						
D-51	680.11	T	S	UD-74	677.09							D-106	679.50	P	S	UD-70	676.41							EX. INLET	653.01	-	N	UD-289A	649.94						

DRAINAGE NOTES - UNDERDRAIN INVERT DATA

CUY-77-11.41 - PART 1

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
MAW 03/14/26

PROJECT ID
105743

SHEET P.715 | TOTAL P.1274

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 9:39:46 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DN003.dgn

DRAINAGE REMOVAL SUBSUMMARY

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION	ALIGNMENT	202 PIPE REMOVED, 24" AND UNDER	202 PIPE REMOVED, OVER 24"	202 MANHOLE REMOVED	202 CATCH BASIN REMOVED	202 INLET REMOVED	202 INLET ABANDONED, AS PER PLAN	202 MANHOLE ABANDONED	SPECIAL FILL AND PLUG EXISTING CONDUIT, 24" AND UNDER	SPECIAL FILL AND PLUG EXISTING CONDUIT, 27" TO 48"	SPECIAL PIPE CLEANOUT, 24" AND UNDER	SPECIAL PIPE CLEANOUT, 27" TO 48"	202 REMOVAL MISC.: MANUFACTURED SYSTEM, TYPE 1 REMOVED	202 REMOVAL MISC.: TRENCH DRAIN REMOVED
					FT	FT	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	EACH	FT
DA-251		P.779	192+86.13 LT TO 192+86.47 RT	CLP_I077			1					52					
DA-253		P.779	192+86.47 RT TO 194+88.46 RT	CLP_I077		10	1						193				
DA-254		P.779	193+36.74 LT TO 193+40.88 LT	CLP_I077				1				23					
DA-254A		P.779	194+63.14 RT TO 194+88.46 RT	CLP_I077								26					
DA-255		P.779	194+63.62 LT TO 194+91.01 LT	CLP_I077				1				59					
DA-256		P.779	194+78.90 RT TO 194+87.04 RT	CLP_I077	27									31			
DA-257		P.779	194+87.04 RT TO 194+88.46 RT	CLP_I077			1					50					
DA-258		P.779	194+88.46 RT TO 194+91.01 LT	CLP_I077			1					56					
DA-259		P.779	194+88.46 RT TO 194+99.69 LT	CLP_I077					1			13					
DA-260		P.779	194+88.46 RT TO 196+87.23 RT	CLP_I077		199	1										
DA-261		P.779	194+91.01 LT TO 195+15.80 LT	CLP_I077			1					62					
DA-262		P.779	195+15.80 LT TO 195+24.46 LT	CLP_I077				1				14					
DA-263		P.779-P.780	195+15.80 LT TO 197+09.17 LT	CLP_I077			1					199					
DA-264		P.779	196+55.22 LT TO 196+83.78 LT	CLP_I077								41					
DA-265		P.779	196+67.22 LT TO 196+83.78 LT	CLP_I077								43					
DA-266		P.779	196+82.25 RT TO 196+87.23 RT	CLP_I077				1				48					
DA-267		P.779	196+83.78 LT TO 196+87.23 RT	CLP_I077				1				57					
DA-268		P.779-P.780	196+83.78 LT TO 197+00.26 LT	CLP_I077	10												
DA-269		P.779-P.780	196+87.23 RT TO 197+50.74 RT	CLP_I077			1						65				
DA-270		P.779-P.780	196+87.23 RT TO 197+04.72 LT	CLP_I077					1			19					
DA-271		P.780	197+09.17 LT TO 197+14.46 LT	CLP_I077				1				60					
DA-272		P.780	197+09.17 LT TO 197+15.60 LT	CLP_I077	7									5			
DA-274		P.780	197+50.74 RT TO 198+60.74 RT	CLP_I077			1						110				
DA-273		P.780	197+56.66 LT TO 197+57.89 LT	CLP_I077	10												
DA-275		P.780	198+38.34 LT TO 198+42.84 LT	CLP_I077	31												
DA-276		P.780	198+56.00 LT	CLP_I077			1										
DA-278		P.780	198+60.74 RT TO 199+75.65 LT	CLP_I077		10			1				106				
DA-277		P.780	199+09.79 RT TO 199+28.80 RT	CLP_I077	10												
DA-279		P.780	199+36.94 LT TO 199+76.27 LT	CLP_I077	41												
DA-280		P.780	199+49.30 RT TO 199+75.23 RT	CLP_I077								41					
DA-281		P.780	199+56.00 RT TO 199+75.23 RT	CLP_I077								43					
DA-282		P.780	199+61.84 RT TO 199+75.23 RT	CLP_I077								40					
DA-283		P.780	199+75.23 RT TO 199+75.65 LT	CLP_I077				1				67					
DA-287		P.780	199+75.23 RT TO 201+08.08 RT	CLP_I077				1				133					
DA-284		P.780	199+75.65 LT TO 199+76.27 LT	CLP_I077				1				48					
DA-286		P.780	199+75.65 LT TO 200+20.41 LT	CLP_I077					1				45				
DA-285		P.780	199+76.27 LT TO 200+15.07 LT	CLP_I077	39			1									
DA-288		P.780	200+11.20 LT TO 200+15.07 LT	CLP_I077								40					
DA-289		P.780	200+15.07 LT TO 200+18.94 LT	CLP_I077	20									21			
DA-290		P.780	200+15.07 LT TO 200+54.88 LT	CLP_I077	40												
DA-291		P.780	200+20.41 LT TO 202+98.46 LT	CLP_I077		10			1				269				
DA-292		P.780	200+20.41 LT TO 201+07.41 LT	CLP_I077	10				1			77					
DA-295		P.780	201+07.41 LT TO 201+34.02 LT	CLP_I077	15		1					46					
DA-293		P.780	201+08.08 RT TO 201+11.95 RT	CLP_I077								40					
DA-294		P.780-P.781	201+08.08 RT TO 202+06.65 RT	CLP_I077				1				100					
DA-296		P.780-P.781	201+31.69 LT TO 202+90.32 LT	CLP_I077								159					
DA-297		P.780	201+34.02 LT TO 201+60.85 LT	CLP_I077	28			1									
DA-298		P.780-P.781	201+60.85 LT TO 202+00.66 LT	CLP_I077	40												
DA-299		P.781	202+98.46 LT TO 203+01.34 LT	CLP_I077	10		1					55					
DA-300		P.781	202+98.46 LT TO 205+95.10 RT	CLP_I077	10		1					296					
TOTALS CARRIED TO P.727					348	229	13	12	6			2007	788	57			

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.726 TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: Sheet 6 PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 1:33:29 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS006.dgn

DRAINAGE REMOVAL SUBSUMMARY

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION	ALIGNMENT	202 PIPE REMOVED, 24" AND UNDER	202 PIPE REMOVED, OVER 24"	202 MANHOLE REMOVED	202 CATCH BASIN REMOVED	202 INLET REMOVED	202 INLET ABANDONED, AS PER PLAN	202 MANHOLE ABANDONED	SPECIAL FILL AND PLUG EXISTING CONDUIT, 24" AND UNDER	SPECIAL FILL AND PLUG EXISTING CONDUIT, 27" TO 48"	SPECIAL PIPE CLEANOUT, 24" AND UNDER	SPECIAL PIPE CLEANOUT, 27" TO 48"	202 REMOVAL MISC.: MANUFACTURED SYSTEM, TYPE 1 REMOVED	202 REMOVAL MISC.: TRENCH DRAIN REMOVED
					FT	FT	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	EACH	FT
DA-301		P.781	203+01.34 LT TO 203+04.45 LT	CLP_I077	10							31					
DA-302		P.781	203+01.34 LT TO 204+35.96 LT	CLP_I077	22									180			
DA-303		P.781	205+90.10 RT TO 205+95.10 RT	CLP_I077				1				38					
DA-308		P.782	210+25.05 LT TO 210+35.78 LT	CLP_I077	10									30			
DA-311		P.782	210+35.78 LT TO 211+67.65 LT	CLP_I077	20									120			
DA-309		P.782	211+67.65 LT	CLP_I077			1										
DA-310		P.782-P.783	211+67.65 LT TO 212+08.64 LT	CLP_I077	17									65			
DA-312		P.783	212+08.64 LT TO 212+09.30 LT	CLP_I077					1			62					
DA-313		P.783	214+10.23 RT TO 215+55.00 RT	CLP_I077	145				1								
DA-315		P.783	215+39.02 LT TO 215+54.96 LT	CLP_I077	11			1						37			
DA-314		P.783	215+54.96 LT TO 215+55.00 RT	CLP_I077	10			1									
DA-321		P.784	217+47.87 LT TO 217+87.29 LT	CLP_I077	40												
DA-322		P.784	220+60.41 RT TO 221+11.40 LT	CLP_I077	11				1					73			
DA-323		P.785	223+23.38 RT TO 223+58.76 LT	CLP_I077	11				1					97			
DA-324		P.785	223+58.76 LT TO 223+96.59 LT	CLP_I077	22									57			
DA-7		P.786	299+25.34 RT TO 300+16.27 RT	BLP_R283A3	6			1						86			
DA-8		P.786	300+73.08 LT TO 301+55.68 LT	BLP_R283A3	11									72			
DA-8A		P.786	301+17.43 LT TO 301+55.68 LT	BLP_R283A3	11									54			
DA-9		P.786	301+46.37 LT TO 301+66.98 LT	BLP_R283A3	23												
DA-10		P.786	301+55.68 LT TO 303+57.04 LT	BLP_R283A3	201		1					166					
DA-11		P.786	301+55.68 LT TO 301+66.98 LT	BLP_R283A3	16			1									
DA-12		P.786	301+66.75 RT TO 301+66.98 LT	BLP_R283A3				1				25					
DA-17		P.786	303+12.31 LT TO 303+53.47 LT	BLP_R283A3	42												
DA-16		P.786	303+13.65 RT TO 303+54.92 RT	BLP_R283A3	42												
DA-19		P.786	303+53.47 LT TO 303+57.04 LT	BLP_R283A3				1				17					
DA-18		P.786	303+53.47 LT TO 303+54.92 RT	BLP_R283A3				1				25					
DA-20		P.786-P.787	303+57.04 LT TO 305+37.79 LT	BLP_R283A3	181		1										
DA-25		P.787	305+07.74 LT TO 305+49.93 LT	BLP_R283A3								43					
DA-26		P.787	305+13.14 RT TO 305+54.44 RT	BLP_R283A3								42					
DA-30		P.787	305+37.79 LT TO 305+60.44 RT	BLP_R283A3	85		1										
DA-31		P.787	305+37.79 LT TO 305+49.93 LT	BLP_R283A3				1				18					
DA-33		P.787	305+54.44 RT TO 305+60.44 RT	BLP_R283A3	42			1									
DA-5A		P.788	399+92.00 LT TO 400+51.55 LT	BLP_R283A4	6			1				54					
DA-14		P.789	404+40.64 LT TO 404+42.89 RT	BLP_R283A4				1				28					
DA-15		P.789	404+42.89 RT TO 406+14.82 RT	BLP_R283A4				1				175					
DA-90		P.790	109+04.61 RT TO 109+46.46 RT	BLP_R043B1	13			1				52					
DA-304		P.791	107+76.44 LT TO 108+90.56 LT	BLP_R043E1			1					118					
DA-306		P.791-P.792	108+90.56 LT TO 110+09.34 LT	BLP_R043E1			1					121					
DA-305		P.792	110+08.04 RT TO 110+09.34 LT	BLP_R043E1			1					28					
DA-307		P.792	110+09.34 LT TO 112+17.26 LT	BLP_R043E1			1					210					
DA-332		P.792	112+17.26 LT TO 112+28.77 RT	BLP_R043E1			1					48					
TOTALS CARRIED FROM THIS SHEET					1008		9	14	4			1301		871			
TOTALS CARRIED FROM P.721					1457	908	11	22	8		1	1048	1469	436	42		74
TOTALS CARRIED FROM P.722					2209	240	8	24	9			1163	2242	14			186
TOTALS CARRIED FROM P.723					1806	270	7	24	11	1	1	1193	1149	209			
TOTALS CARRIED FROM P.724					1214		2	24	13			3397		70			206
TOTALS CARRIED FROM P.725					731	482	11	15	11			1682	1802	297	457	1	
TOTALS CARRIED FROM P.726					348	229	13	12	6			2007	788	57			
TOTALS CARRIED TO GENERAL SUMMARY					8773	2129	61	135	62	1	2	11791	7450	1954	499	1	466

CUY-77-11.41 - PART 1

MODEL: Sheet 7 PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 1:35:29 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS006.dgn

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.727 TOTAL P.1274

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	602 CONCRETE MASONRY CY	611 6" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 6" CONDUIT, TYPE B, AS PER PLAN 1, 707.65 FT	611 6" CONDUIT, TYPE C, AS PER PLAN 1, 707.65 FT	611 8" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 8" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 12" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 1, 707.65 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 3 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 5 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 1, 707.65 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 3 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 4 FT	611 18" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 18" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 18" CONDUIT, TYPE B, AS PER PLAN 1, 707.65 FT	611 18" CONDUIT, TYPE B, AS PER PLAN 2 FT	611 18" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 18" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 21" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 21" CONDUIT, TYPE B, AS PER PLAN 3 FT	611 21" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 24" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 24" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 24" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 24" CONDUIT, TYPE C, AS PER PLAN 1, 707.65 FT	611 27" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 30" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 30" CONDUIT, TYPE B, AS PER PLAN 2 FT	611 30" CONDUIT, TYPE C, AS PER PLAN 5 FT
D-4B	2001856	P.755	75+00.00	RT	TO	75+10.00	RT	CLP_I077																										10							
D-4A	2001855	P.755	75+07.00	RT	TO	75+10.00	RT	CLP_I077																																	
D-4C		P.755	75+07.00	LT	TO	75+11.00	LT	CLP_I077																											10					
D-4D	2001857	P.755	75+11.00	LT	TO	75+56.50	LT	CLP_I077																														49		
D-3A	2001850	P.755-P.756	75+56.50	LT	TO	77+70.00	LT	CLP_I077							6																							211	
D-3B	2001851	P.756	77+70.00	LT	TO	78+50.00	LT	CLP_I077																														79		
D-3C	2001852	P.756	77+70.00	LT	TO	77+70.00	LT	CLP_I077											9																				
D-3D	2001853	P.756	78+50.00	LT	TO	78+98.50	LT	CLP_I077																														54		
D-5	2001858	P.756	78+90.00	RT	TO	78+90.00	LT	CLP_I077																																
D-6	2001859	P.756	78+90.00	LT	TO	78+98.50	LT	CLP_I077								18																								
D-3		P.756	78+98.50	LT	TO	81+60.50	LT	CLP_I077																																
D-4	2001854	P.756	79+00.00	RT	TO	80+96.00	RT	CLP_I077								198																								
D-10A	2001862	P.756	80+62.00	LT	TO	81+60.00	LT	CLP_I077								96																								
D-8	2001860	P.756	80+96.00	RT	TO	81+67.00	RT	CLP_I077								69																								
D-9	2001858	P.756	81+60.00	RT	TO	81+60.00	LT	CLP_I077																																
D-10		P.756	81+60.00	LT	TO	81+60.50	LT	CLP_I077																													17			
D-13A	2001866	P.756	81+60.00	RT	TO	81+67.00	RT	CLP_I077																																
D-14	2001867	P.756-P.757	81+60.00	RT	TO	82+56.86	RT	CLP_I077								97																								
D-7		P.756-P.757	81+60.50	LT	TO	83+51.00	LT	CLP_I077																																
D-13	2001865	P.756	81+67.00	RT	TO	81+68.41	RT	CLP_I077																																
D-15C	2001869	P.757	82+25.00	LT	TO	82+56.86	LT	CLP_I077								30																								
D-15	2001868	P.757	82+56.86	LT	TO	82+90.00	LT	CLP_I077								34																								
D-16	2001870	P.757	82+56.86	RT	TO	83+50.00	RT	CLP_I077								93																								
D-17A	2001871	P.757	82+90.00	LT	TO	83+49.00	LT	CLP_I077								57																								
D-17		P.757	83+49.00	LT	TO	83+51.00	LT	CLP_I077																																
D-12	2001864	P.757	83+51.00	LT	TO	85+99.00	LT	CLP_I077																																
D-19	2001873	P.757	83+51.00	LT	TO	83+72.06	LT	CLP_I077								41																								
D-18	2001872	P.757	83+72.06	LT	TO	83+98.50	LT	CLP_I077								24																								
D-18A		P.757	83+98.50	LT	TO	84+30.58	LT	CLP_I077																																
D-21A	2001875	P.757	84+32.23	LT	TO	84+82.84	LT	CLP_I077								50																								
D-21	2001874	P.757	84+82.84	LT	TO	85+99.31	LT	CLP_I077								115																								
D-22	2001876	P.757-P.758	85+99.00	LT	TO	89+10.00	LT	CLP_I077																																
D-24	2001878	P.757	85+99.31	LT	TO	85+99.00	LT	CLP_I077								16																								
D-23	2001877	P.757	85+99.00	LT	TO	86+00.00	RT	CLP_I077																																
D-26	2001879	P.758	88+17.21	LT	TO	89+10.00	LT	CLP_I077								92																								
D-27	2001880	P.758	89+09.16	LT	TO	90+00.00	LT	CLP_I077							11																									
D-30	2001882	P.758	89+98.44	RT	TO	90+00.00	LT	CLP_I077					8		10	111																								
D-28	2001881	P.758-P.759	90+00.00	LT	TO	92+94.00	LT	CLP_I077																																
D-31C	2001885	P.759	92+82.00	LT	TO	92+94.00	LT	CLP_I077											16																				
D-31	2001883	P.759	92+94.00	LT	TO	95+65.00	LT	CLP_I077																																
D-31A	2001884	P.759	92+94.00	LT	TO	92+94.16	RT	CLP_I077																																
D-31B		P.759	92+94.16	RT	TO	93+24.40	RT	CLP_I077																																
D-33		P.759	95+17.09	RT	TO	95+42.82	RT	CLP_I077						20																									
D-34A	2001889	P.759	95+42.82	RT	TO	95+56.94	LT	CLP_I077																																
D-34	2001888	P.759	95+42.82	RT	TO	95+55.00	RT	CLP_I077								15																								
D-36	2001890	P.759	95+55.00	LT	TO	95+65.00	LT	CLP_I077							4				12																				
D-32A	2001887	P.759	95+56.94	LT	TO	95+65.00	LT	CLP_I077																																
D-32	2001886	P.759-P.760	95+65.00	LT	TO	99+00.00	LT	CLP_I077																																
D-37A	2001892	P.760	98+90.00	LT	TO	99+00.00	LT	CLP_I077											15																				
D-37	2001891	P.760-P.761	99+00.00	LT	TO	103+77.00	LT	CLP_I077																																
TOTALS CARRIED TO P.744													8	20	31	1156			52		60				7								10	27			182	211	

DRAINAGE SUBSUMMARY

CUY-77-11.41 - PART 1

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.729 | TOTAL P.1274

MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 3:54:23 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Engineering\Drainage\Sheets\105743_DS002.dgn

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	611 36" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 36" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 42" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 48" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 48" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 48" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 54" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 54" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 60" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 66" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 14" X 23" CONDUIT, TYPE B, 706.04, AS PER PLAN 1 FT	611 19" X 30" CONDUIT, TYPE B, 706.04, AS PER PLAN 1 FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 15", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 18", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 21", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 24", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 27", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 30", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 36", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 60", TYPE B FT	611 CONDUIT, MISC.: 14" X 23" CONDUIT, TYPE C, 706.04, AS PER PLAN 1 FT	611 CONDUIT, MISC.: 24" X 38" CONDUIT, TYPE C, 706.04, AS PER PLAN 1 FT	611 CATCH BASIN, NO. 3A EACH	611 CATCH BASIN, NO. 5 EACH	611 CATCH BASIN, NO. 5, AS PER PLAN EACH	611 CATCH BASIN, NO. 6, AS PER PLAN EACH	611 CATCH BASIN, NO. 8 WITHOUT APRON EACH	611 CATCH BASIN, NO. 2-3 EACH	611 CATCH BASIN, NO. 2-3 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN, NO. 2-5 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN, NO. 2-6 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN ADJUSTED TO GRADE EACH	611 CATCH BASIN RECONSTRUCTED TO GRADE EACH
D-4B	2001856	P.755	75+00.00	RT	TO	75+10.00	RT	CLP_I077													57				62																
D-4A	2001855	P.755	75+07.00	RT	TO	75+10.00	RT	CLP_I077																																
D-4C		P.755	75+07.00	LT	TO	75+11.00	LT	CLP_I077																																
D-4D	2001857	P.755	75+11.00	LT	TO	75+56.50	LT	CLP_I077																																
D-3A	2001850	P.755-P.756	75+56.50	LT	TO	77+70.00	LT	CLP_I077																																
D-3B	2001851	P.756	77+70.00	LT	TO	78+50.00	LT	CLP_I077																																
D-3C	2001852	P.756	77+70.00	LT	TO	77+70.00	LT	CLP_I077																																
D-3D	2001853	P.756	78+50.00	LT	TO	78+98.50	LT	CLP_I077																																
D-5	2001858	P.756	78+90.00	RT	TO	78+90.00	LT	CLP_I077															62																	
D-6	2001859	P.756	78+90.00	LT	TO	78+98.50	LT	CLP_I077																																
D-3		P.756	78+98.50	LT	TO	81+60.50	LT	CLP_I077									257																							
D-4	2001854	P.756	79+00.00	RT	TO	80+96.00	RT	CLP_I077																																
D-10A	2001862	P.756	80+62.00	LT	TO	81+60.00	LT	CLP_I077																																
D-8	2001860	P.756	80+96.00	RT	TO	81+67.00	RT	CLP_I077																																
D-9	2001858	P.756	81+60.00	RT	TO	81+60.00	LT	CLP_I077																																
D-10		P.756	81+60.00	LT	TO	81+60.50	LT	CLP_I077																																
D-13A	2001866	P.756	81+60.00	RT	TO	81+67.00	RT	CLP_I077																																
D-14	2001867	P.756-P.757	81+60.00	RT	TO	82+56.86	RT	CLP_I077																																
D-7		P.756-P.757	81+60.50	LT	TO	83+51.00	LT	CLP_I077									187																							
D-13	2001865	P.756	81+67.00	RT	TO	81+68.41	RT	CLP_I077																															1	
D-15C	2001869	P.757	82+25.00	LT	TO	82+56.86	LT	CLP_I077																																
D-15	2001868	P.757	82+56.86	LT	TO	82+90.00	LT	CLP_I077																																
D-16	2001870	P.757	82+56.86	RT	TO	83+50.00	RT	CLP_I077																																
D-17A	2001871	P.757	82+90.00	LT	TO	83+49.00	LT	CLP_I077																																
D-17		P.757	83+49.00	LT	TO	83+51.00	LT	CLP_I077																																
D-12	2001864	P.757	83+51.00	LT	TO	85+99.00	LT	CLP_I077										244																						
D-19	2001873	P.757	83+51.00	LT	TO	83+72.06	LT	CLP_I077																																
D-18	2001872	P.757	83+72.06	LT	TO	83+98.50	LT	CLP_I077																																
D-18A		P.757	83+98.50	LT	TO	84+30.58	LT	CLP_I077																															1	
D-21A	2001875	P.757	84+32.23	LT	TO	84+82.84	LT	CLP_I077																																
D-21	2001874	P.757	84+82.84	LT	TO	85+99.31	LT	CLP_I077																																
D-22	2001876	P.757-P.758	85+99.00	LT	TO	89+10.00	LT	CLP_I077										306																						
D-24	2001878	P.757	85+99.31	LT	TO	85+99.00	LT	CLP_I077																																
D-23	2001877	P.757	85+99.00	LT	TO	86+00.00	RT	CLP_I077															61																	
D-26	2001879	P.758	88+17.21	LT	TO	89+10.00	LT	CLP_I077																																
D-27	2001880	P.758	89+09.16	LT	TO	90+00.00	LT	CLP_I077																																
D-30	2001882	P.758	89+98.44	RT	TO	90+00.00	LT	CLP_I077																																
D-28	2001881	P.758-P.759	90+00.00	LT	TO	92+94.00	LT	CLP_I077																																
D-31C	2001885	P.759	92+82.00	LT	TO	92+94.00	LT	CLP_I077																																
D-31	2001883	P.759	92+94.00	LT	TO	95+65.00	LT	CLP_I077																																
D-31A	2001884	P.759	92+94.00	LT	TO	92+94.16	RT	CLP_I077															120																	
D-31B		P.759	92+94.16	RT	TO	93+24.40	RT	CLP_I077																																
D-33		P.759	95+17.09	RT	TO	95+42.82	RT	CLP_I077	30	8																														
D-34A	2001889	P.759	95+42.82	RT	TO	95+56.94	LT	CLP_I077																																
D-34	2001888	P.759	95+42.82	RT	TO	95+55.00	RT	CLP_I077																																
D-36	2001890	P.759	95+55.00	LT	TO	95+65.00	LT	CLP_I077																																
D-32A	2001887	P.759	95+56.94	LT	TO	95+65.00	LT	CLP_I077																																
D-32	2001886	P.759-P.760	95+65.00	LT	TO	99+00.00	LT	CLP_I077																																
D-37A	2001892	P.760	98+90.00	LT	TO	99+00.00	LT	CLP_I077																																
D-37	2001891	P.760-P.761	99+00.00	LT	TO	103+77.00	LT	CLP_I077																																
TOTALS CARRIED TO P.745									30	8							550	444	1459				300			224			117							1		2					

DRAINAGE SUBSUMMARY

CUY-77-11.41 - PART 1

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.730 | TOTAL P.1274

MODEL: Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 3:54:24 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	611 INLET, NO. 2-A-6 EACH	611 INLET, NO. 2-A-8 EACH	611 INLET, NO. 2-A-10 EACH	611 INLET, NO. 2-A-12 EACH	611 INLET, NO. 2-A-16 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 2 EACH	611 INLET, MISC.; BARRIER INLET SCREEN EACH	611 MANHOLE, NO. 3 EACH	611 MANHOLE, NO. 3 WITH 60" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 72" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 84" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 90" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 96" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 108" BASE I.D. EACH	611 MANHOLE, NO. 3, AS PER PLAN EACH	611 MANHOLE, NO. 3, AS PER PLAN WITH 72" BASE I.D. EACH	611 MANHOLE, NO. 3, AS PER PLAN WITH 84" BASE I.D. EACH	611 MANHOLE, NO. 3, AS PER PLAN WITH 96" BASE I.D. EACH	611 MANHOLE, NO. 5, AS PER PLAN EACH	611 MANHOLE ADJUSTED TO GRADE EACH	611 MANHOLE ADJUSTED TO GRADE, AS PER PLAN EACH	611 MANHOLE RECONSTRUCTED TO GRADE EACH	611 MANHOLE, MISC.: MANHOLE ADJUSTED TO GRADE WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 60" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 72" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 84" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 90" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 96" BASE I.D. WITH BOLTED COVER EACH	611 DRAINAGE STRUCTURE, MISC.: RESHAPE AND REESTABLISH EXISTING CONNECTION EACH
D-4B	2001856	P.755	75+00.00	RT	TO	75+10.00	RT	CLP_I077						1						1																						
D-4A	2001855	P.755	75+07.00	RT	TO	75+10.00	RT	CLP_I077			1																															
D-4C		P.755	75+07.00	LT	TO	75+11.00	LT	CLP_I077			1																														
D-4D	2001857	P.755	75+11.00	LT	TO	75+56.50	LT	CLP_I077													1																				
D-3A	2001850	P.755-P.756	75+56.50	LT	TO	77+70.00	LT	CLP_I077																													1				
D-3B	2001851	P.756	77+70.00	LT	TO	78+50.00	LT	CLP_I077																													1				
D-3C	2001852	P.756	77+70.00	LT	TO	77+70.00	LT	CLP_I077			1																														
D-3D	2001853	P.756	78+50.00	LT	TO	78+98.50	LT	CLP_I077																													1				
D-5	2001858	P.756	78+90.00	RT	TO	78+90.00	LT	CLP_I077							1					1																				
D-6	2001859	P.756	78+90.00	LT	TO	78+98.50	LT	CLP_I077		1																															
D-3		P.756	78+98.50	LT	TO	81+60.50	LT	CLP_I077																1																
D-4	2001854	P.756	79+00.00	RT	TO	80+96.00	RT	CLP_I077			1																														
D-10A	2001862	P.756	80+62.00	LT	TO	81+60.00	LT	CLP_I077		1																															
D-8	2001860	P.756	80+96.00	RT	TO	81+67.00	RT	CLP_I077		1																															
D-9	2001858	P.756	81+60.00	RT	TO	81+60.00	LT	CLP_I077							1					1																				
D-10		P.756	81+60.00	LT	TO	81+60.50	LT	CLP_I077		1																															
D-13A	2001866	P.756	81+60.00	RT	TO	81+67.00	RT	CLP_I077																								1								
D-14	2001867	P.756-P.757	81+60.00	RT	TO	82+56.86	RT	CLP_I077							1					1																				
D-7		P.756-P.757	81+60.50	LT	TO	83+51.00	LT	CLP_I077																																
D-13	2001865	P.756	81+67.00	RT	TO	81+68.41	RT	CLP_I077																																
D-15C	2001869	P.757	82+25.00	LT	TO	82+56.86	LT	CLP_I077		1																															
D-15	2001868	P.757	82+56.86	LT	TO	82+90.00	LT	CLP_I077	1																															
D-16	2001870	P.757	82+56.86	RT	TO	83+50.00	RT	CLP_I077							1					1																				
D-17A	2001871	P.757	82+90.00	LT	TO	83+49.00	LT	CLP_I077		1																															
D-17		P.757	83+49.00	LT	TO	83+51.00	LT	CLP_I077	1																															
D-12	2001864	P.757	83+51.00	LT	TO	85+99.00	LT	CLP_I077													1																				
D-19	2001873	P.757	83+51.00	LT	TO	83+72.06	LT	CLP_I077			1																														
D-18	2001872	P.757	83+72.06	LT	TO	83+98.50	LT	CLP_I077	1																															
D-18A		P.757	83+98.50	LT	TO	84+30.58	LT	CLP_I077																																
D-21A	2001875	P.757	84+32.23	LT	TO	84+82.84	LT	CLP_I077									1			1																				
D-21	2001874	P.757	84+82.84	LT	TO	85+99.31	LT	CLP_I077									1			1																				
D-22	2001876	P.757-P.758	85+99.00	LT	TO	89+10.00	LT	CLP_I077																									1							
D-24	2001878	P.757	85+99.31	LT	TO	85+99.00	LT	CLP_I077									1			1																				
D-23	2001877	P.757	85+99.00	LT	TO	86+00.00	RT	CLP_I077							1					1																				
D-26	2001879	P.758	88+17.21	LT	TO	89+10.00	LT	CLP_I077									1			1																				
D-27	2001880	P.758	89+09.16	LT	TO	90+00.00	LT	CLP_I077																														1		
D-30	2001882	P.758	89+98.44	RT	TO	90+00.00	LT	CLP_I077																												1				
D-28	2001881	P.758-P.759	90+00.00	LT	TO	92+94.00	LT	CLP_I077																														1		
D-31C	2001885	P.759	92+82.00	LT	TO	92+94.00	LT	CLP_I077									1			1																				
D-31	2001883	P.759	92+94.00	LT	TO	95+65.00	LT	CLP_I077																														1		
D-31A	2001884	P.759	92+94.00	LT	TO	92+94.16	RT	CLP_I077											1																				
D-31B		P.759	92+94.16	RT	TO	93+24.40	RT	CLP_I077																																
D-33		P.759	95+17.09	RT	TO	95+42.82	RT	CLP_I077												1																				
D-34A	2001889	P.759	95+42.82	RT	TO	95+56.94	LT	CLP_I077												1																				
D-34	2001888	P.759	95+42.82	RT	TO	95+55.00	RT	CLP_I077									1			1																				
D-36	2001890	P.759	95+55.00	LT	TO	95+65.00	LT	CLP_I077										1		1																				
D-32A	2001887	P.759	95+56.94	LT	TO	95+65.00	LT	CLP_I077																								1								
D-32	2001886	P.759-P.760	95+65.00	LT	TO	99+00.00	LT	CLP_I077																																1
D-37A	2001892	P.760	98+90.00	LT	TO	99+00.00	LT	CLP_I077									1			1																				
D-37	2001891	P.760-P.761	99+00.00	LT	TO	103+77.00	LT	CLP_I077																									1							
TOTALS CARRIED TO P.746									3	6	5			1	5		7	1		14	1	3		3				1	1	1	1				4				3	1	

DRAINAGE SUBSUMMARY

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.731 | TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: Sheet 3 PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 3:54:25 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\05 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	602 CONCRETE MASONRY CY	611 6" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 6" CONDUIT, TYPE B, AS PER PLAN 1, 707.65 FT	611 6" CONDUIT, TYPE C, AS PER PLAN 1, 707.65 FT	611 8" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 8" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 12" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 1, 707.65 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 3 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 5 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 1, 707.65 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 3 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 4 FT	611 18" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 18" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 18" CONDUIT, TYPE B, AS PER PLAN 1, 707.65 FT	611 18" CONDUIT, TYPE B, AS PER PLAN 2 FT	611 18" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 18" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 21" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 21" CONDUIT, TYPE B, AS PER PLAN 3 FT	611 21" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 24" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 24" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 24" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 24" CONDUIT, TYPE C, AS PER PLAN 1, 707.81 FT	611 27" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 30" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 30" CONDUIT, TYPE B, AS PER PLAN 2 FT	611 30" CONDUIT, TYPE C, AS PER PLAN 5 FT
D-38	2001893	P.760	99+00.00	RT	TO	99+00.00	LT	CLP_I077																																
D-38A	2001894	P.760	99+00.00	RT	TO	99+00.00	RT	CLP_I077																																
D-40A		P.761	102+82.00	LT	TO	103+70.00	LT	CLP_I077								60																							
D-40	2001896	P.761	103+70.00	LT	TO	103+77.00	LT	CLP_I077											10																				
D-39	2001895	P.761	103+77.00	LT	TO	106+08.00	LT	CLP_I077																																
D-44	2001901	P.761	104+29.01	RT	TO	104+39.38	RT	CLP_I077											11																				
D-105	2001963	P.761	104+39.38	RT	TO	106+54.68	RT	CLP_I077								213																							
D-41	2001897	P.761-P.762	106+08.00	LT	TO	108+77.88	LT	CLP_I077																																
D-42	2001898	P.761	106+08.00	LT	TO	106+08.00	LT	CLP_I077											14																				
D-45	2001902	P.761	106+46.03	RT	TO	106+54.68	RT	CLP_I077											9																				
D-106	2001964	P.761-P.762	106+54.68	RT	TO	107+03.26	RT	CLP_I077								53																							
D-46A	2001904	P.761	106+96.56	RT	TO	106+97.52	RT	CLP_I077											6																				
D-46	2001903	P.761-P.762	106+97.52	RT	TO	107+03.26	RT	CLP_I077								33																							
D-107		P.762	107+03.26	RT	TO	108+16.81	RT	CLP_I077																															112	
D-47C		P.762	108+06.97	RT	TO	108+08.12	RT	CLP_I077								6																							
D-47	2001905	P.762	108+08.12	RT	TO	108+16.81	RT	CLP_I077								47																							
D-51	2001908	P.762	108+15.93	LT	TO	108+85.67	LT	CLP_I077								65																							
D-108		P.762	108+16.81	RT	TO	110+80.00	RT	CLP_I077																															259	
D-52	2001909	P.762	108+77.88	LT	TO	110+80.00	LT	CLP_I077																																
D-50		P.762	108+77.88	LT	TO	108+85.67	LT	CLP_I077													21																		
D-49	2001907	P.762	108+85.67	LT	TO	109+17.68	LT	CLP_I077								33																							
D-47A		P.762	110+67.63	RT	TO	110+80.00	RT	CLP_I077													57																	
D-53	2001910	P.762	110+80.00	RT	TO	110+80.00	LT	CLP_I077																																
D-48	2001906	P.762	110+80.00	LT	TO	110+88.00	LT	CLP_I077																															11	
D-43	2001899	P.762	110+80.00	LT	TO	110+88.00	LT	CLP_I077																																
D-54	2001911	P.762	110+80.00	LT	TO	111+12.00	LT	CLP_I077								37																							
D-43C		P.762	110+88.00	LT	TO	113+39.00	LT	CLP_I077																																
D-43D		P.762-P.763	111+74.00	LT	TO	113+39.00	LT	CLP_I077																																
D-43B		P.763	113+39.00	LT	TO	113+39.00	LT	CLP_I077																																
D-43A	2001900	P.763-P.764	113+39.00	LT	TO	117+52.00	LT	CLP_I077																																
D-56	2001913	P.763	116+25.00	RT	TO	116+30.00	RT	CLP_I077											8																				
D-56A		P.763-P.764	116+30.00	RT	TO	117+57.00	RT	CLP_I077													125																		
D-57	2001914	P.764	117+51.00	RT	TO	117+57.00	RT	CLP_I077											7																				
D-55	2001912	P.764	117+52.00	LT	TO	120+00.00	LT	CLP_I077																																
D-58	2001916	P.764	117+52.00	LT	TO	117+54.00	LT	CLP_I077																																
D-57A	2001915	P.764	117+57.00	RT	TO	117+74.52	RT	CLP_I077								41																							
D-O1		P.764	117+74.52	RT				CLP_I077	0.27																															
D-60	2001919	P.764	118+51.00	LT	TO	118+70.76	LT	CLP_I077								67																							
D-O2		P.764	118+70.76	LT				CLP_I077	0.27																															
D-59	2001917	P.764	120+00.00	LT	TO	120+14.49	LT	CLP_I077																																
D-59A	2001918	P.764-P.765	120+14.49	LT	TO	125+78.00	LT	CLP_I077																																
DZ-32		P.765	125+46.92	RT				CLP_I077																																
D-61	2001920	P.765-P.766	125+78.00	LT	TO	129+06.00	LT	CLP_I077																																
D-63	2001921	P.765	125+78.00	LT	TO	125+78.00	LT	CLP_I077																																
D-65	2001924	P.766	129+00.00	LT	TO	129+06.00	LT	CLP_I077																																
D-64A	2001923	P.766	129+06.00	LT	TO	130+65.00	LT	CLP_I077																																
D-69	2001928	P.766	129+06.00	LT	TO	129+07.00	LT	CLP_I077											8																				
D-66	2001925	P.766	129+77.31	LT	TO	130+65.00	LT	CLP_I077								88																							
D-70	2001929	P.766	129+77.31	LT	TO	130+65.00	LT	CLP_I077								89																							
D-67	2001926	P.766	130+65.00	LT	TO	130+65.00	LT	CLP_I077																																
D-68	2001927	P.766	130+65.00	LT	TO	130+65.00	LT	CLP_I077											8																				
D-64	2001922	P.766-P.767	130+65.00	LT	TO	133+71.00	LT	CLP_I077																																
D-74	2001932	P.767	132+98.96	RT	TO	133+00.00	RT	CLP_I077											7																				
D-76	2001934	P.767	132+98.96	RT	TO	134+59.58	RT	CLP_I077								161																							
D-73	2001931	P.767	132+98.96	RT	TO	133+00.15	RT	CLP_I077								30																							
D-75	2001933	P.767	133+00.00	RT	TO	135+83.00	RT	CLP_I077																																
TOTALS CARRIED TO P.744									0.54							1023			88		203																11	371					

DRAINAGE SUBSUMMARY

CUY-77-11.41 - PART 1

MODEL: Sheet 4 PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 3:54:26 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.732 TOTAL P.1274

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	611 36" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 36" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 42" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 48" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 48" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 48" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 54" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 54" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 60" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 66" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 14" X 23" CONDUIT, TYPE B, 706.04, AS PER PLAN 1 FT	611 19" X 30" CONDUIT, TYPE B, 706.04, AS PER PLAN 1 FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 15", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 18", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 21", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 24", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 27", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 30", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 36", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 60", TYPE B FT	611 CONDUIT, MISC.: 14" X 23" CONDUIT, TYPE C, 706.04, AS PER PLAN 1 FT	611 CONDUIT, MISC.: 24" X 38" CONDUIT, TYPE C, 706.04, AS PER PLAN 1 FT	611 CATCH BASIN, NO. 3A EACH	611 CATCH BASIN, NO. 5 EACH	611 CATCH BASIN, NO. 5, AS PER PLAN EACH	611 CATCH BASIN, NO. 6, AS PER PLAN EACH	611 CATCH BASIN, NO. 8 WITHOUT APRON EACH	611 CATCH BASIN, NO. 2-3 EACH	611 CATCH BASIN, NO. 2-3 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN, NO. 2-5 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN, NO. 2-6 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN ADJUSTED TO GRADE EACH	611 CATCH BASIN RECONSTRUCTED TO GRADE EACH
D-38	2001893	P.760	99+00.00	RT	TO	99+00.00	LT	CLP_I077													53																		
D-38A	2001894	P.760	99+00.00	RT	TO	99+00.00	RT	CLP_I077													59															1				
D-40A		P.761	102+82.00	LT	TO	103+70.00	LT	CLP_I077																															
D-40	2001896	P.761	103+70.00	LT	TO	103+77.00	LT	CLP_I077																															
D-39	2001895	P.761	103+77.00	LT	TO	106+08.00	LT	CLP_I077									235																						
D-44	2001901	P.761	104+29.01	RT	TO	104+39.38	RT	CLP_I077																															
D-105	2001963	P.761	104+39.38	RT	TO	106+54.68	RT	CLP_I077																															
D-41	2001897	P.761-P.762	106+08.00	LT	TO	108+77.88	LT	CLP_I077									279																						
D-42	2001898	P.761	106+08.00	LT	TO	106+08.00	LT	CLP_I077																													1		
D-45	2001902	P.761	106+46.03	RT	TO	106+54.68	RT	CLP_I077																															
D-106	2001964	P.761-P.762	106+54.68	RT	TO	107+03.26	RT	CLP_I077																															
D-46A	2001904	P.761	106+96.56	RT	TO	106+97.52	RT	CLP_I077																													1		
D-46	2001903	P.761-P.762	106+97.52	RT	TO	107+03.26	RT	CLP_I077																															
D-107		P.762	107+03.26	RT	TO	108+16.81	RT	CLP_I077																															
D-47C		P.762	108+06.97	RT	TO	108+08.12	RT	CLP_I077																													1		
D-47	2001905	P.762	108+08.12	RT	TO	108+16.81	RT	CLP_I077																															
D-51	2001908	P.762	108+15.93	LT	TO	108+85.67	LT	CLP_I077																															
D-108		P.762	108+16.81	RT	TO	110+80.00	RT	CLP_I077																															
D-52	2001909	P.762	108+77.88	LT	TO	110+80.00	LT	CLP_I077									218																						
D-50		P.762	108+77.88	LT	TO	108+85.67	LT	CLP_I077																															
D-49	2001907	P.762	108+85.67	LT	TO	109+17.68	LT	CLP_I077																															
D-47A		P.762	110+67.63	RT	TO	110+80.00	RT	CLP_I077																															
D-53	2001910	P.762	110+80.00	RT	TO	110+80.00	LT	CLP_I077																															
D-48	2001906	P.762	110+80.00	LT	TO	110+88.00	LT	CLP_I077																															
D-43	2001899	P.762	110+80.00	LT	TO	110+88.00	LT	CLP_I077									40																						
D-54	2001911	P.762	110+80.00	LT	TO	111+12.00	LT	CLP_I077																															
D-43C		P.762	110+88.00	LT	TO	113+39.00	LT	CLP_I077									84																						
D-43D		P.762-P.763	111+74.00	LT	TO	113+39.00	LT	CLP_I077																															
D-43B		P.763	113+39.00	LT	TO	113+39.00	LT	CLP_I077									40																						
D-43A	2001900	P.763-P.764	113+39.00	LT	TO	117+52.00	LT	CLP_I077									419																						
D-56	2001913	P.763	116+25.00	RT	TO	116+30.00	RT	CLP_I077																															
D-56A		P.763-P.764	116+30.00	RT	TO	117+57.00	RT	CLP_I077																															
D-57	2001914	P.764	117+51.00	RT	TO	117+57.00	RT	CLP_I077																															
D-55	2001912	P.764	117+52.00	LT	TO	120+00.00	LT	CLP_I077									252																						
D-58	2001916	P.764	117+52.00	LT	TO	117+54.00	LT	CLP_I077													67																		
D-57A	2001915	P.764	117+57.00	RT	TO	117+74.52	RT	CLP_I077																															
D-O1		P.764	117+74.52	RT				CLP_I077																															
D-60	2001919	P.764	118+51.00	LT	TO	118+70.76	LT	CLP_I077																															
D-O2		P.764	118+70.76	LT				CLP_I077																															
D-59	2001917	P.764	120+00.00	LT	TO	120+14.49	LT	CLP_I077									29																						
D-59A	2001918	P.764-P.765	120+14.49	LT	TO	125+78.00	LT	CLP_I077									572																						
DZ-32		P.765	125+46.92	RT				CLP_I077																															
D-61	2001920	P.765-P.766	125+78.00	LT	TO	129+06.00	LT	CLP_I077									332																						
D-63	2001921	P.765	125+78.00	LT	TO	125+78.00	LT	CLP_I077													59																		
D-65	2001924	P.766	129+00.00	LT	TO	129+06.00	LT	CLP_I077													45																		
D-64A	2001923	P.766	129+06.00	LT	TO	130+65.00	LT	CLP_I077									161																						
D-69	2001928	P.766	129+06.00	LT	TO	129+07.00	LT	CLP_I077																															
D-66	2001925	P.766	129+77.31	LT	TO	130+65.00	LT	CLP_I077																															
D-70	2001929	P.766	129+77.31	LT	TO	130+65.00	LT	CLP_I077																															
D-67	2001926	P.766	130+65.00	LT	TO	130+65.00	LT	CLP_I077														45																
D-68	2001927	P.766	130+65.00	LT	TO	130+65.00	LT	CLP_I077																															
D-64	2001922	P.766-P.767	130+65.00	LT	TO	133+71.00	LT	CLP_I077									307																						
D-74	2001932	P.767	132+98.96	RT	TO	133+00.00	RT	CLP_I077																															
D-76	2001934	P.767	132+98.96	RT	TO	134+59.58	RT	CLP_I077																															
D-73	2001931	P.767	132+98.96	RT	TO	133+00.15	RT	CLP_I077																															
D-75	2001933	P.767	133+00.00	RT	TO	135+83.00	RT	CLP_I077																															
TOTALS CARRIED TO P.745																	2968				283	45	75					165						2				4				

DRAINAGE SUBSUMMARY

CUY-77-11.41 - PART 1

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.733 | TOTAL P.1274

MODEL: Sheet 5 PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 3:54:27 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	611 INLET, NO. 2-A-6 EACH	611 INLET, NO. 2-A-8 EACH	611 INLET, NO. 2-A-10 EACH	611 INLET, NO. 2-A-12 EACH	611 INLET, NO. 2-A-16 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 2 EACH	611 INLET, MISC.; BARRIER INLET SCREEN EACH	611 MANHOLE, NO. 3 EACH	611 MANHOLE, NO. 3 WITH 60" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 72" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 84" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 90" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 96" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 108" BASE I.D. EACH	611 MANHOLE, NO. 3, AS PER PLAN EACH	611 MANHOLE, NO. 3, AS PER PLAN WITH 72" BASE I.D. EACH	611 MANHOLE, NO. 3, AS PER PLAN WITH 84" BASE I.D. EACH	611 MANHOLE, NO. 3, AS PER PLAN WITH 96" BASE I.D. EACH	611 MANHOLE, NO. 5, AS PER PLAN EACH	611 MANHOLE ADJUSTED TO GRADE EACH	611 MANHOLE ADJUSTED TO GRADE, AS PER PLAN EACH	611 MANHOLE RECONSTRUCTED TO GRADE EACH	611 MANHOLE, MISC.: MANHOLE ADJUSTED TO GRADE WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 60" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 72" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 84" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 90" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 96" BASE I.D. WITH BOLTED COVER EACH	611 DRAINAGE STRUCTURE, MISC.: RESHAPE AND REESTABLISH EXISTING CONNECTION EACH
D-38	2001893	P.760	99+00.00	RT	TO	99+00.00	LT	CLP_I077						1						1																					
D-38A	2001894	P.760	99+00.00	RT	TO	99+00.00	RT	CLP_I077																																	
D-40A		P.761	102+82.00	LT	TO	103+70.00	LT	CLP_I077	1																															
D-40	2001896	P.761	103+70.00	LT	TO	103+77.00	LT	CLP_I077			1																													
D-39	2001895	P.761	103+77.00	LT	TO	106+08.00	LT	CLP_I077																															1	
D-44	2001901	P.761	104+29.01	RT	TO	104+39.38	RT	CLP_I077									1			1																				
D-105	2001963	P.761	104+39.38	RT	TO	106+54.68	RT	CLP_I077																													1			
D-41	2001897	P.761-P.762	106+08.00	LT	TO	108+77.88	LT	CLP_I077																															1	
D-42	2001898	P.761	106+08.00	LT	TO	106+08.00	LT	CLP_I077																																
D-45	2001902	P.761	106+46.03	RT	TO	106+54.68	RT	CLP_I077									1			1																				
D-106	2001964	P.761-P.762	106+54.68	RT	TO	107+03.26	RT	CLP_I077																													1			
D-46A	2001904	P.761	106+96.56	RT	TO	106+97.52	RT	CLP_I077																																
D-46	2001903	P.761-P.762	106+97.52	RT	TO	107+03.26	RT	CLP_I077									1			1																				
D-107		P.762	107+03.26	RT	TO	108+16.81	RT	CLP_I077													1																			
D-47C		P.762	108+06.97	RT	TO	108+08.12	RT	CLP_I077																																
D-47	2001905	P.762	108+08.12	RT	TO	108+16.81	RT	CLP_I077									1			1																				
D-51	2001908	P.762	108+15.93	LT	TO	108+85.67	LT	CLP_I077		1																														
D-108		P.762	108+16.81	RT	TO	110+80.00	RT	CLP_I077														1																		
D-52	2001909	P.762	108+77.88	LT	TO	110+80.00	LT	CLP_I077																																
D-50		P.762	108+77.88	LT	TO	108+85.67	LT	CLP_I077			1																													
D-49	2001907	P.762	108+85.67	LT	TO	109+17.68	LT	CLP_I077			1																													
D-47A		P.762	110+67.63	RT	TO	110+80.00	RT	CLP_I077		1																													
D-53	2001910	P.762	110+80.00	RT	TO	110+80.00	LT	CLP_I077																																
D-48	2001906	P.762	110+80.00	LT	TO	110+88.00	LT	CLP_I077							1					1																				
D-43	2001899	P.762	110+80.00	LT	TO	110+88.00	LT	CLP_I077																															1	
D-54	2001911	P.762	110+80.00	LT	TO	111+12.00	LT	CLP_I077		1																														
D-43C		P.762	110+88.00	LT	TO	113+39.00	LT	CLP_I077																															1	
D-43D		P.762-P.763	111+74.00	LT	TO	113+39.00	LT	CLP_I077																															1	
D-43B		P.763	113+39.00	LT	TO	113+39.00	LT	CLP_I077																																1
D-43A	2001900	P.763-P.764	113+39.00	LT	TO	117+52.00	LT	CLP_I077																																1
D-56	2001913	P.763	116+25.00	RT	TO	116+30.00	RT	CLP_I077										1																					
D-56A		P.763-P.764	116+30.00	RT	TO	117+57.00	RT	CLP_I077														1																	
D-57	2001914	P.764	117+51.00	RT	TO	117+57.00	RT	CLP_I077										1																					
D-55	2001912	P.764	117+52.00	LT	TO	120+00.00	LT	CLP_I077																																
D-58	2001916	P.764	117+52.00	LT	TO	117+54.00	LT	CLP_I077							1					1																				
D-57A	2001915	P.764	117+57.00	RT	TO	117+74.52	RT	CLP_I077														1																	
D-O1		P.764	117+74.52	RT				CLP_I077																																
D-60	2001919	P.764	118+51.00	LT	TO	118+70.76	LT	CLP_I077																																
D-O2		P.764	118+70.76	LT				CLP_I077																																
D-59	2001917	P.764	120+00.00	LT	TO	120+14.49	LT	CLP_I077																																1
D-59A	2001918	P.764-P.765	120+14.49	LT	TO	125+78.00	LT	CLP_I077																																1
DZ-32		P.765	125+46.92	RT				CLP_I077																													1			
D-61	2001920	P.765-P.766	125+78.00	LT	TO	129+06.00	LT	CLP_I077																																1
D-63	2001921	P.765	125+78.00	LT	TO	125+78.00	LT	CLP_I077								1				1																				
D-65	2001924	P.766	129+00.00	LT	TO	129+06.00	LT	CLP_I077								1				1																				
D-64A	2001923	P.766	129+06.00	LT	TO	130+65.00	LT	CLP_I077																																1
D-69	2001928	P.766	129+06.00	LT	TO	129+07.00	LT	CLP_I077									1			1																				
D-66	2001925	P.766	129+77.31	LT	TO	130+65.00	LT	CLP_I077							1					1																				
D-70	2001929	P.766	129+77.31	LT	TO	130+65.00	LT	CLP_I077									1			1																				
D-67	2001926	P.766	130+65.00	LT	TO	130+65.00	LT	CLP_I077							1					1																				
D-68	2001927	P.766	130+65.00	LT	TO	130+65.00	LT	CLP_I077									1			1																				
D-64	2001922	P.766-P.767	130+65.00	LT	TO	133+71.00	LT	CLP_I077																																1
D-74	2001932	P.767	132+98.96	RT	TO	133+00.00	RT	CLP_I077	1																															
D-76	2001934	P.767	132+98.96	RT	TO	134+59.58	RT	CLP_I077	1																															
D-73	2001931	P.767	132+98.96	RT	TO	133+00.15	RT	CLP_I077			1																													
D-75	2001933	P.767	133+00.00	RT	TO	135+83.00	RT	CLP_I077					1																											
TOTALS CARRIED TO P.746									3	3	4	3		1	6		7			14	3	1			1	1							1			1	1			3	9	

DRAINAGE SUBSUMMARY

CUY-77-11.41 - PART 1

MODEL: Sheet 6 PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 3:54:27 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\05 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.734 | TOTAL P.1274

| REF NO. | CFN NO. | SHEET NO. | STATION TO STATION | | | | | ALIGNMENT | 602 | 611 | 611 | 611

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	611 36" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 36" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 42" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 48" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 48" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 48" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 54" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 54" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 60" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 66" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 14" X 23" CONDUIT, TYPE B, 706.04, AS PER PLAN 1 FT	611 19" X 30" CONDUIT, TYPE B, 706.04, AS PER PLAN 1 FT		611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 15", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 18", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 21", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 24", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 27", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 30", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 36", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 60", TYPE B FT		611 CONDUIT, MISC.: 14" X 23" CONDUIT, TYPE C, 706.04, AS PER PLAN 1 FT	611 CONDUIT, MISC.: 24" X 38" CONDUIT, TYPE C, 706.04, AS PER PLAN 1 FT	611 CATCH BASIN, NO. 3A EACH	611 CATCH BASIN, NO. 5 EACH	611 CATCH BASIN, NO. 5, AS PER PLAN EACH	611 CATCH BASIN, NO. 6, AS PER PLAN EACH	611 CATCH BASIN, NO. 8 WITHOUT APRON EACH	611 CATCH BASIN, NO. 2-3 EACH	611 CATCH BASIN, NO. 2-3 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN, NO. 2-5 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN, NO. 2-6 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN ADJUSTED TO GRADE EACH	611 CATCH BASIN RECONSTRUCTED TO GRADE EACH
D-71A	2001930	P.767	133+71.00	LT	TO	134+96.00	LT	CLP_I077										132																					
D-71B		P.767	134+02.00	LT	TO	134+66.50	LT	CLP_I077																							64			1						
D-71C		P.767	134+54.42	LT	TO	134+66.50	LT	CLP_I077																															
D-76A	2001935	P.767	134+57.89	RT	TO	134+59.58	RT	CLP_I077																															
D-77	2001936	P.767	134+59.58	RT	TO	135+95.27	RT	CLP_I077																															
D-71D		P.767	134+66.50	LT	TO	134+96.00	LT	CLP_I077																								51								
D-71		P.767	134+96.00	LT				CLP_I077																															
D-72		P.767	134+96.00	LT	TO	135+80.00	LT	CLP_I077																															
D-83	2001943	P.767-P.768	135+80.00	LT	TO	138+75.00	LT	CLP_I077																															
D-82	2001942	P.767	135+80.00	LT	TO	135+80.00	LT	CLP_I077																															
D-81	2001940	P.767	135+80.00	LT	TO	135+83.00	RT	CLP_I077																															
D-81A	2001941	P.767-P.768	135+83.00	RT	TO	139+00.00	RT	CLP_I077																															
D-78	2001937	P.767	135+95.27	RT	TO	135+97.56	RT	CLP_I077																															
D-80	2001939	P.767-P.768	135+95.27	RT	TO	137+59.48	RT	CLP_I077																															
D-79	2001938	P.768	137+59.48	RT	TO	139+83.44	RT	CLP_I077																															
D-84	2001944	P.768	138+75.00	LT	TO	141+57.00	LT	CLP_I077																															
D-84A	2001945	P.768	139+00.00	RT	TO	141+56.00	RT	CLP_I077																															
D-85	2001946	P.768	141+50.00	LT	TO	141+57.00	LT	CLP_I077																															
D-87	2001949	P.768-P.769	141+56.00	RT	TO	142+72.00	RT	CLP_I077																															
D-86	2001947	P.768-P.769	141+57.00	LT	TO	143+30.00	LT	CLP_I077																															
D-94A	2001956	P.769	142+72.00	RT	TO	144+25.00	RT	CLP_I077																															
D-86A	2001948	P.769	143+30.00	LT	TO	143+30.00	LT	CLP_I077																												1			
D-88	2001950	P.769	143+30.00	LT	TO	146+03.00	LT	CLP_I077																															
D-94		P.769	144+25.00	RT	TO	146+03.64	RT	CLP_I077																															
D-93	2001955	P.769	145+79.78	RT	TO	146+07.19	RT	CLP_I077																															
D-95A		P.769	146+03.00	LT	TO	146+07.05	LT	CLP_I077																															
D-95	2001957	P.769	146+03.00	LT	TO	146+07.05	LT	CLP_I077													56																		
D-96		P.769-P.770	146+03.00	LT	TO	147+90.00	LT	CLP_I077																															
D-92	2001954	P.769	146+03.64	RT	TO	146+07.19	RT	CLP_I077																															
D-91	2001953	P.769	146+07.19	RT	TO	146+34.94	RT	CLP_I077																															
D-90	2001952	P.769-P.770	146+34.94	RT	TO	147+74.77	RT	CLP_I077																															
D-89	2001951	P.770	147+74.77	RT	TO	148+50.00	RT	CLP_I077																															
D-97		P.770	147+90.00	LT	TO	150+16.00	LT	CLP_I077																															
D-104		P.770	147+91.30	LT	TO	148+05.00	LT	CLP_I077																															
D-98		P.770	150+16.00	LT	TO	150+60.00	LT	CLP_I077																												1			
D-101	2001960	P.770	150+16.00	LT	TO	150+18.19	LT	CLP_I077																															
D-100	2001958	P.770	150+18.19	LT	TO	150+61.06	LT	CLP_I077																															
D-100A	2001959	P.770	150+61.06	LT	TO	150+62.00	LT	CLP_I077																														1	
D-102	2001961	P.770	150+61.06	LT	TO	150+99.98	LT	CLP_I077																															
D-103	2001962	P.770-P.771	150+99.98	LT	TO	151+99.41	LT	CLP_I077																															
D-163A	2001980	P.772	157+55.00	LT	TO	159+90.00	LT	CLP_I077																															
D-150	2001965	P.772	159+85.00	RT	TO	161+60.00	RT	CLP_I077																															
D-163	2001979	P.772-P.773	159+90.00	LT	TO	162+50.00	LT	CLP_I077																															
D-150A		P.772-P.773	161+60.00	RT	TO	162+50.00	RT	CLP_I077																															
D-168A	2001987	P.773	162+21.00	LT	TO	162+50.00	LT	CLP_I077																														1	
D-157	2001972	P.773	162+25.00	RT	TO	162+50.00	RT	CLP_I077																															
D-151	2001966	P.773	162+50.00	RT	TO	162+50.00	RT	CLP_I077																	58														
D-156	2001971	P.773	162+50.00	RT	TO	162+50.00	LT	CLP_I077																						61									
D-162	2001978	P.773	162+50.00	LT	TO	162+50.00	LT	CLP_I077																															
D-168	2001986	P.773	162+50.00	LT	TO	164+70.54	LT	CLP_I077																															
TOTALS CARRIED TO P.745																		132			56		58		134	61				64	51			1		1	1	2			

CUY-77-11.41 - PART 1

MODEL: Sheet 8 PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 3:54:29 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\05 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743400-Engineering\Drainage\Sheets\105743_DS002.dgn

DRAINAGE SUBSUMMARY

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.736 | TOTAL P.1274

| REF NO. | CFN NO. | SHEET NO. | STATION TO STATION | | | | | ALIGNMENT | 611 INLET, NO. 2-A-6 EACH | 611 INLET, NO. 2-A-8 EACH | 611 INLET, NO. 2-A-10 EACH | 611 INLET, NO. 2-A-12 EACH | 611 INLET, NO. 2-A-16 EACH | 611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1 EACH | 611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1 EACH | 611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN EACH | 611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D EACH | 611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 1 EACH | 611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 2 EACH | 611 INLET, MISC.; BARRIER INLET SCREEN EACH | 611 MANHOLE, NO. 3 EACH | 611 MANHOLE, NO. 3 WITH 60" BASE I.D. EACH | 611 MANHOLE, NO. 3 WITH 72" BASE I.D. EACH | 611 MANHOLE, NO. 3 WITH 84" BASE I.D. EACH | 611 MANHOLE, NO. 3 WITH 90" BASE I.D. EACH | 611 MANHOLE, NO. 3 WITH 96" BASE I.D. EACH | 611 MANHOLE, NO. 3 WITH 108" BASE I.D. EACH | 611 MANHOLE, NO. 3, AS PER PLAN EACH | 611 MANHOLE, NO. 3, AS PER PLAN WITH 72" BASE I.D. EACH | 611 MANHOLE, NO. 3, AS PER PLAN WITH 84" BASE I.D. EACH | 611 MANHOLE, NO. 3, AS PER PLAN WITH 96" BASE I.D. EACH | 611 MANHOLE, NO. 5, AS PER PLAN EACH | 611 MANHOLE ADJUSTED TO GRADE EACH | 611 MANHOLE ADJUSTED TO GRADE, AS PER PLAN EACH | 611 MANHOLE RECONSTRUCTED TO GRADE EACH | 611 MANHOLE, MISC.: MANHOLE ADJUSTED TO GRADE WITH BOLTED COVER EACH | 611 MANHOLE, MISC.: MANHOLE NO. 3 WITH BOLTED COVER EACH | 611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 60" BASE I.D. WITH BOLTED COVER EACH | 611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 72" BASE I.D. WITH BOLTED COVER EACH | 611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 84" BASE I.D. WITH BOLTED COVER EACH | 611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 90" BASE I.D. WITH BOLTED COVER EACH | 611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 96" BASE I.D. WITH BOLTED COVER EACH | 611 DRAINAGE STRUCTURE, MISC.: RESHAPE AND REESTABLISH EXISTING CONNECTION EACH |
|---|---|---

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	602 CONCRETE MASONRY CY	611 6" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 6" CONDUIT, TYPE B, AS PER PLAN 1, 707.65 FT	611 6" CONDUIT, TYPE C, AS PER PLAN 1, 707.65 FT	611 8" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 8" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 12" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 1, 707.65 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 3 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 5 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 1, 707.65 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 3 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 4 FT	611 18" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 18" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 18" CONDUIT, TYPE B, AS PER PLAN 1, 707.65 FT	611 18" CONDUIT, TYPE B, AS PER PLAN 2 FT	611 18" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 18" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 21" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 21" CONDUIT, TYPE B, AS PER PLAN 3 FT	611 21" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 24" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 24" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 24" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 24" CONDUIT, TYPE C, AS PER PLAN 1, 707.81 FT	611 [redacted] FT	611 30" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 30" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 30" CONDUIT, TYPE B, AS PER PLAN 2 FT	611 30" CONDUIT, TYPE C, AS PER PLAN 5 FT
D-151A	2001967	P.773	162+50.00	RT	TO	164+70.54	RT	CLP_I077																		223																
D-158A	2001974	P.773	162+50.00	RT	TO	163+35.00	RT	CLP_I077																		86																
D-164	2001981	P.773	162+50.00	LT	TO	163+35.00	LT	CLP_I077																		84																
D-158	2001973	P.773	163+35.00	RT	TO	163+35.00	RT	CLP_I077										5																								
D-159	2001975	P.773	163+35.00	RT	TO	164+70.54	RT	CLP_I077																																		
D-165	2001982	P.773	163+35.00	LT	TO	164+50.00	LT	CLP_I077																		114																
D-166	2001983	P.773	164+50.00	LT	TO	165+25.00	LT	CLP_I077								74																										
D-169	2001988	P.773-P.774	164+70.54	LT		167+14.00	LT	CLP_I077																																	242		
D-152	2001968	P.773	164+70.54	RT	TO	165+30.00	RT	CLP_I077																		60																
D-160	2001976	P.773	164+70.54	RT	TO	165+64.87	RT	CLP_I077								94																										
D-166A	2001984	P.773	165+25.00	LT	TO	165+75.00	LT	CLP_I077								50																										
D-154	2001969	P.773	165+30.00	RT	TO	166+27.00	RT	CLP_I077																		97																
D-167	2001985	P.773-P.774	165+75.00	LT	TO	167+75.00	LT	CLP_I077								200																										
D-155	2001970	P.773-P.774	166+27.00	RT	TO	167+60.00	RT	CLP_I077																																		
D-170	2001989	P.774	167+14.00	LT	TO	167+14.00	LT	CLP_I077								12																										
D-170A	2001990	P.774	167+14.00	LT	TO	168+86.00	LT	CLP_I077																																	172		
D-161	2001977	P.774	167+60.00	RT	TO	167+70.00	RT	CLP_I077																																		
D-170B		P.774	168+86.00	LT	TO	169+10.82	LT	CLP_I077																																		88
DZ-2		P.774	169+10.82	LT				CLP_I077																																		
D-220	2002016	P.774	169+78.29	RT	TO	170+60.75	LT	CLP_I077																																		
DZ-3		P.774	170+05.17	LT				CLP_I077																																		
D-220A		P.774	170+60.75	LT				CLP_I077																																		
D-177		P.775	175+27.65	LT	TO	175+35.54	LT	CLP_I077																																		
DZ-4A		P.775	175+32.26	T				CLP_I077																																		
D-178		P.775	175+35.54	LT	TO	175+58.05	LT	CLP_I077																																		
DZ-4B		P.775	175+50.05	LT				CLP_I077																																		
D-179	2001991	P.775	175+51.28	LT	TO	175+85.00	LT	CLP_I077																																		
D-180		P.775	175+85.00	LT	TO	176+51.00	LT	CLP_I077																																		
DZ-4		P.775	176+19.99	LT				CLP_I077																																		
DZ-5		P.775	176+38.15	LT				CLP_I077																																		
DZ-6		P.775	176+51.07	LT				CLP_I077																																		
D-181		P.775-P.776	176+51.00	LT	TO	180+00.00	LT	CLP_I077																																		
D-182		P.776-P.777	180+00.00	LT	TO	183+53.00	LT	CLP_I077																																		
D-184	2001993	P.777	183+42.06	RT	TO	183+50.00	RT	CLP_I077								61																										
D-183	2001992	P.777	183+50.00	RT	TO	183+53.00	LT	CLP_I077																																		
D-183A		P.777	183+53.00	LT	TO	183+53.00	LT	CLP_I077																																		
D-185		P.777	183+53.00	LT	TO	186+21.00	LT	CLP_I077																																		
DZ-8		P.777	185+12.23	RT				CLP_I077																																		
D-186		P.777-P.778	186+21.00	LT	TO	188+87.00	LT	CLP_I077																																		
D-188	2001995	P.778	188+13.30	RT	TO	189+81.15	RT	CLP_I077								160																										
D-187A		P.778	188+87.00	LT	TO	188+91.00	LT	CLP_I077																																		
D-192		P.778	188+87.00	LT	TO	191+45.00	LT	CLP_I077																																		
D-187	2001994	P.778	188+91.00	LT	TO	189+00.00	LT	CLP_I077																																		
D-189A	2001997	P.778	189+81.15	RT	TO	191+64.83	RT	CLP_I077								183																										
D-193A		P.778-P.779	191+45.00	LT	TO	193+82.93	LT	CLP_I077																																		
D-189	2001996	P.778	191+64.83	RT	TO	191+95.42	RT	CLP_I077								23																										
D-190	2001999	P.778-P.779	191+95.42	RT	TO	192+36.22	RT	CLP_I077																		39																
D-191	2002000	P.779	192+36.22	RT	TO	192+38.63	RT	CLP_I077																		32																
D-191A		P.779	192+38.63	RT	TO	194+84.50	RT	CLP_I077																																		
D-193	2002001	P.779	193+82.93	LT	TO	193+98.00	LT	CLP_I077																																		
TOTALS CARRIED TO P.744																857			5		69				735				240											414		88

DRAINAGE SUBSUMMARY

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.738 | TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: Sheet 10 PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 3:54:30 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCE.v02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn

DRAINAGE SUBSUMMARY

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	611 36" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 36" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 42" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 48" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 48" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 48" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 54" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 54" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 60" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 66" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 14" X 23" CONDUIT, TYPE B, 706.04, AS PER PLAN 1 FT	611 19" X 30" CONDUIT, TYPE B, 706.04, AS PER PLAN 1 FT		611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 15", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 18", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 21", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 24", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 27", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 30", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 36", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 60", TYPE B FT		611 CONDUIT, MISC.: 14" X 23" CONDUIT, TYPE C, 706.04, AS PER PLAN 1 FT	611 CONDUIT, MISC.: 24" X 38" CONDUIT, TYPE C, 706.04, AS PER PLAN 1 FT	611 CATCH BASIN, NO. 3A EACH	611 CATCH BASIN, NO. 5 EACH	611 CATCH BASIN, NO. 5, AS PER PLAN EACH	611 CATCH BASIN, NO. 6, AS PER PLAN EACH	611 CATCH BASIN, NO. 8 WITHOUT APRON EACH	611 CATCH BASIN, NO. 2-3 EACH	611 CATCH BASIN, NO. 2-3 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN, NO. 2-5 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN, NO. 2-6 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN ADJUSTED TO GRADE EACH	611 CATCH BASIN RECONSTRUCTED TO GRADE EACH
D-151A	2001967	P.773	162+50.00	RT	TO	164+70.54	RT	CLP_I077																																
D-158A	2001974	P.773	162+50.00	RT	TO	163+35.00	RT	CLP_I077																																
D-164	2001981	P.773	162+50.00	LT	TO	163+35.00	LT	CLP_I077																											1					
D-158	2001973	P.773	163+35.00	RT	TO	163+35.00	RT	CLP_I077																																
D-159	2001975	P.773	163+35.00	RT	TO	164+70.54	RT	CLP_I077																	136															
D-165	2001982	P.773	163+35.00	LT	TO	164+50.00	LT	CLP_I077																											1					
D-166	2001983	P.773	164+50.00	LT	TO	165+25.00	LT	CLP_I077																											1					
D-169	2001988	P.773-P.774	164+70.54	LT		167+14.00	LT	CLP_I077																																
D-152	2001968	P.773	164+70.54	RT	TO	165+30.00	RT	CLP_I077																																
D-160	2001976	P.773	164+70.54	RT	TO	165+64.87	RT	CLP_I077																																
D-166A	2001984	P.773	165+25.00	LT	TO	165+75.00	LT	CLP_I077																											1					
D-154	2001969	P.773	165+30.00	RT	TO	166+27.00	RT	CLP_I077																																
D-167	2001985	P.773-P.774	165+75.00	LT	TO	167+75.00	LT	CLP_I077																											1					
D-155	2001970	P.773-P.774	166+27.00	RT	TO	167+60.00	RT	CLP_I077											133																				
D-170	2001989	P.774	167+14.00	LT	TO	167+14.00	LT	CLP_I077																													1			
D-170A	2001990	P.774	167+14.00	LT	TO	168+86.00	LT	CLP_I077																																
D-161	2001977	P.774	167+60.00	RT	TO	167+70.00	RT	CLP_I077																		54														
D-170B		P.774	168+86.00	LT	TO	169+10.82	LT	CLP_I077																																
DZ-2		P.774	169+10.82	LT				CLP_I077																																
D-220	2002016	P.774	169+78.29	RT	TO	170+60.75	LT	CLP_I077																	116												1			
DZ-3		P.774	170+05.17	LT				CLP_I077																																
D-220A		P.774	170+60.75	LT				CLP_I077																																
D-177		P.775	175+27.65	LT	TO	175+35.54	LT	CLP_I077											8				8																
DZ-4A		P.775	175+32.26	T				CLP_I077																																
D-178		P.775	175+35.54	LT	TO	175+58.05	LT	CLP_I077											10		22																		
DZ-4B		P.775	175+50.05	LT				CLP_I077																																
D-179	2001991	P.775	175+51.28	LT	TO	175+85.00	LT	CLP_I077												39																			
D-180		P.775	175+85.00	LT	TO	176+51.00	LT	CLP_I077													75															1			
DZ-4		P.775	176+19.99	LT				CLP_I077																																
DZ-5		P.775	176+38.15	LT				CLP_I077																															1	
DZ-6		P.775	176+51.07	LT				CLP_I077																															1	
D-181		P.775-P.776	176+51.00	LT	TO	180+00.00	LT	CLP_I077													338																1		
D-182		P.776-P.777	180+00.00	LT	TO	183+53.00	LT	CLP_I077													342																1		
D-184	2001993	P.777	183+42.06	RT	TO	183+50.00	RT	CLP_I077																																
D-183	2001992	P.777	183+50.00	RT	TO	183+53.00	LT	CLP_I077																	83														
D-183A		P.777	183+53.00	LT	TO	183+53.00	LT	CLP_I077																																
D-185		P.777	183+53.00	LT	TO	186+21.00	LT	CLP_I077													267																1		
DZ-8		P.777	185+12.23	RT				CLP_I077																																
D-186		P.777-P.778	186+21.00	LT	TO	188+87.00	LT	CLP_I077													269																1		
D-188	2001995	P.778	188+13.30	RT	TO	189+81.15	RT	CLP_I077																																
D-187A		P.778	188+87.00	LT	TO	188+91.00	LT	CLP_I077																																
D-192		P.778	188+87.00	LT	TO	191+45.00	LT	CLP_I077													270																	1		
D-187	2001994	P.778	188+91.00	LT	TO	189+00.00	LT	CLP_I077																	86														
D-189A	2001997	P.778	189+81.15	RT	TO	191+64.83	RT	CLP_I077																																
D-193A		P.778-P.779	191+45.00	LT	TO	193+82.93	LT	CLP_I077													247																		
D-189	2001996	P.778	191+64.83	RT	TO	191+95.42	RT	CLP_I077																																
D-190	2001999	P.778-P.779	191+95.42	RT	TO	192+36.22	RT	CLP_I077																																
D-191	2002000	P.779	192+36.22	RT	TO	192+38.63	RT	CLP_I077																																
D-191A		P.779	192+38.63	RT	TO	194+84.50	RT	CLP_I077																																
D-193	2002001	P.779	193+82.93	LT	TO	193+98.00	LT	CLP_I077												75																			
TOTALS CARRIED TO P.745													18	114	1830	8			133				421	54									5			2	4	2	2	

CUY-77-11.41 - PART 1

MODEL: Sheet 11 PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 3:54:31 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.739 TOTAL P.1274

DRAINAGE SUBSUMMARY

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	611 INLET, NO. 2-A-6 EACH	611 INLET, NO. 2-A-8 EACH	611 INLET, NO. 2-A-10 EACH	611 INLET, NO. 2-A-12 EACH	611 INLET, NO. 2-A-16 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 2 EACH	611 INLET, MISC.; BARRIER INLET SCREEN EACH	611 MANHOLE, NO. 3 EACH	611 MANHOLE, NO. 3 WITH 60" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 72" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 84" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 90" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 96" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 108" BASE I.D. EACH	611 MANHOLE, NO. 3, AS PER PLAN EACH	611 MANHOLE, NO. 3, AS PER PLAN WITH 72" BASE I.D. EACH	611 MANHOLE, NO. 3, AS PER PLAN WITH 84" BASE I.D. EACH	611 MANHOLE, NO. 3, AS PER PLAN WITH 96" BASE I.D. EACH	611 MANHOLE, NO. 5, AS PER PLAN EACH	611 MANHOLE ADJUSTED TO GRADE EACH	611 MANHOLE ADJUSTED TO GRADE, AS PER PLAN EACH	611 MANHOLE RECONSTRUCTED TO GRADE EACH	611 MANHOLE, MISC.: MANHOLE ADJUSTED TO GRADE WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 60" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 72" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 84" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 90" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 96" BASE I.D. WITH BOLTED COVER EACH	611 DRAINAGE STRUCTURE, MISC.: RESHAPE AND REESTABLISH EXISTING CONNECTION EACH
D-151A	2001967	P.773	162+50.00	RT	TO	164+70.54	RT	CLP_I077																										1							
D-158A	2001974	P.773	162+50.00	RT	TO	163+35.00	RT	CLP_I077																										1							
D-164	2001981	P.773	162+50.00	LT	TO	163+35.00	LT	CLP_I077																																	
D-158	2001973	P.773	163+35.00	RT	TO	163+35.00	RT	CLP_I077							1					1																					
D-159	2001975	P.773	163+35.00	RT	TO	164+70.54	RT	CLP_I077							1					1																					
D-165	2001982	P.773	163+35.00	LT	TO	164+50.00	LT	CLP_I077																																	
D-166	2001983	P.773	164+50.00	LT	TO	165+25.00	LT	CLP_I077																																	
D-169	2001988	P.773-P.774	164+70.54	LT		167+14.00	LT	CLP_I077													1																				
D-152	2001968	P.773	164+70.54	RT	TO	165+30.00	RT	CLP_I077										1		1																					
D-160	2001976	P.773	164+70.54	RT	TO	165+64.87	RT	CLP_I077						1						1																					
D-166A	2001984	P.773	165+25.00	LT	TO	165+75.00	LT	CLP_I077																																	
D-154	2001969	P.773	165+30.00	RT	TO	166+27.00	RT	CLP_I077										1		1																					
D-167	2001985	P.773-P.774	165+75.00	LT	TO	167+75.00	LT	CLP_I077																																	
D-155	2001970	P.773-P.774	166+27.00	RT	TO	167+60.00	RT	CLP_I077										1		1																					
D-170	2001989	P.774	167+14.00	LT	TO	167+14.00	LT	CLP_I077																																	
D-170A	2001990	P.774	167+14.00	LT	TO	168+86.00	LT	CLP_I077													1																				
D-161	2001977	P.774	167+60.00	RT	TO	167+70.00	RT	CLP_I077						1						1																					
D-170B		P.695	168+86.00	LT	TO	169+10.82	LT	CLP_I077													1																				
DZ-2		P.695	169+10.82	LT				CLP_I077																																1	
D-220	2002016	P.695	169+78.29	RT	TO	170+60.75	LT	CLP_I077																																	
DZ-3		P.695	170+05.17	LT				CLP_I077																																1	
D-220A		P.695	170+60.75	LT				CLP_I077																																	1
D-177		P.775	175+27.65	LT	TO	175+35.54	LT	CLP_I077														1																			
DZ-4A		P.775	175+32.26	T				CLP_I077																																1	
D-178		P.775	175+35.54	LT	TO	175+58.05	LT	CLP_I077														1																			
DZ-4B		P.775	175+50.05	LT				CLP_I077																																1	
D-179	2001991	P.775	175+51.28	LT	TO	175+85.00	LT	CLP_I077															1																		
D-180		P.775	175+85.00	LT	TO	176+51.00	LT	CLP_I077																																	
DZ-4		P.775	176+19.99	LT				CLP_I077																																1	
DZ-5		P.775	176+38.15	LT				CLP_I077																																	
DZ-6		P.775	176+51.07	LT				CLP_I077																																	
D-181		P.775-P.776	176+51.00	LT	TO	180+00.00	LT	CLP_I077																																	
D-182		P.776-P.777	180+00.00	LT	TO	183+53.00	LT	CLP_I077																																	
D-184	2001993	P.777	183+42.06	RT	TO	183+50.00	RT	CLP_I077			1																														
D-183	2001992	P.777	183+50.00	RT	TO	183+53.00	LT	CLP_I077							1					1																					
D-183A		P.777	183+53.00	LT	TO	183+53.00	LT	CLP_I077													1																				
D-185		P.777	183+53.00	LT	TO	186+21.00	LT	CLP_I077																																	
DZ-8		P.777	185+12.23	RT				CLP_I077																																1	
D-186		P.777-P.778	186+21.00	LT	TO	188+87.00	LT	CLP_I077																																	
D-188	2001995	P.778	188+13.30	RT	TO	189+81.15	RT	CLP_I077			1																														
D-187A		P.778	188+87.00	LT	TO	188+91.00	LT	CLP_I077													1																				
D-192		P.778	188+87.00	LT	TO	191+45.00	LT	CLP_I077																																	
D-187	2001994	P.778	188+91.00	LT	TO	189+00.00	LT	CLP_I077							1					1																					
D-189A	2001997	P.778	189+81.15	RT	TO	191+64.83	RT	CLP_I077							1					1																					
D-193A		P.778-P.779	191+45.00	LT	TO	193+82.93	LT	CLP_I077														1																			
D-189	2001996	P.778	191+64.83	RT	TO	191+95.42	RT	CLP_I077			1																														
D-190	2001999	P.778-P.779	191+95.42	RT	TO	192+36.22	RT	CLP_I077		1																															
D-191	2002000	P.779	192+36.22	RT	TO	192+38.63	RT	CLP_I077			1																														
D-191A		P.779	192+38.63	RT	TO	194+84.50	RT	CLP_I077													1																				
D-193	2002001	P.779	193+82.93	LT	TO	193+98.00	LT	CLP_I077														1																			
TOTALS CARRIED TO P.746										1	4			2	5		3			10	6		1	4									3		3		2							1

CUY-77-11.41 - PART 1

MODEL: Sheet 12 PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 3:54:32 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCE.v02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.740 TOTAL P.1274

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	602 CONCRETE MASONRY CY	611 6" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 6" CONDUIT, TYPE B, AS PER PLAN 1, 707.65 FT	611 6" CONDUIT, TYPE C, AS PER PLAN 1, 707.65 FT	611 8" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 8" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 12" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 1, 707.65 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 3 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 5 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 1, 707.65 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 3 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 4 FT	611 18" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 18" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 18" CONDUIT, TYPE B, AS PER PLAN 1, 707.65 FT	611 18" CONDUIT, TYPE B, AS PER PLAN 2 FT	611 18" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 18" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 21" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 21" CONDUIT, TYPE B, AS PER PLAN 3 FT	611 21" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 24" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 24" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 24" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 24" CONDUIT, TYPE C, AS PER PLAN 1, 707.84 FT	611 27" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 30" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 30" CONDUIT, TYPE B, AS PER PLAN 2 FT	611 30" CONDUIT, TYPE C, AS PER PLAN 5 FT
D-194	2002002	P.779	193+98.00	LT	TO	194+00.00	LT	CLP_I077														9																			
D-195	2003003	P.779	193+98.00	LT	TO	196+89.00	LT	CLP_I077								23																									
DZ-10		P.779	194+78.22	RT				CLP_I077																															
DZ-9		P.779	194+78.90	RT				CLP_I077																															
D-198		P.779	194+84.50	RT	TO	196+50.50	RT	CLP_I077														9														163				
DZ-11		P.779	194+93.12	RT				CLP_I077																															
D-197		P.779-P.780	196+50.50	RT	TO	199+19.01	RT	CLP_I077																															
D-199	2002004	P.779-P.780	196+89.00	LT	TO	197+00.00	LT	CLP_I077								23																								
D-201A	2002005	P.779-P.780	196+89.00	LT	TO	198+38.10	LT	CLP_I077																															
D-200		P.779-P.780	197+00.00	LT	TO	197+69.04	LT	CLP_I077													59		6																
D-201B		P.780	198+38.10	LT	TO	198+39.30	LT	CLP_I077																															
D-201		P.780	198+39.30	LT	TO	199+21.67	LT	CLP_I077																															
D-210	2002012	P.780	199+06.17	LT	TO	199+21.67	LT	CLP_I077													18																		
D-205	2002009	P.780	199+19.01	RT	TO	199+20.00	LT	CLP_I077																															
D-206		P.780	199+19.01	RT	TO	200+35.09	RT	CLP_I077																													117			
D-202	2002006	P.780	199+20.00	LT	TO	199+21.67	LT	CLP_I077																															
D-203	2002007	P.780	199+20.00	LT	TO	200+17.51	LT	CLP_I077								98																								
D-211	2002013	P.780	199+21.67	LT	TO	200+16.50	LT	CLP_I077				5																										95			
D-212E	2002015	P.780	199+98.00	LT	TO	200+19.50	LT	CLP_I077								14																								
D-212		P.780	200+16.50	LT	TO	200+19.50	LT	CLP_I077																	7														
D-213		P.780	200+16.50	LT	TO	201+19.00	LT	CLP_I077																														103		
D-212D	2002014	P.780	200+19.50	LT	TO	200+42.00	LT	CLP_I077								24																								
D-207		P.780-P.781	200+35.09	RT	TO	202+16.94	RT	CLP_I077																													182				
D-204	2002008	P.780	201+15.00	LT	TO	201+22.00	LT	CLP_I077																															
D-214		P.780	201+19.00	LT	TO	201+22.00	LT	CLP_I077																	6														
D-215		P.780-P.781	201+19.00	LT	TO	203+01.34	LT	CLP_I077										10					10														182			
D-208		P.781	202+16.94	RT	TO	204+88.77	RT	CLP_I077														274																		
D-215C		P.781	203+01.34	LT	TO	203+04.00	LT	CLP_I077																	6														
DZ-12		P.781	204+35.96	LT				CLP_I077																															
D-209	2002011	P.781	204+88.77	RT	TO	204+98.00	RT	CLP_I077									56																						
D-405	2002020	P.782	210+31.50	LT	TO	210+35.78	LT	CLP_I077			5								3																				
DZ-14		P.782	210+35.78	LT				CLP_I077																															
D-399		P.782	211+57.40	LT	TO	211+77.53	LT	CLP_I077			10							10									6	10											
DZ-16		P.783	212+08.64	LT				CLP_I077																															
DZ-18		P.783	213+42.14	LT				CLP_I077																															
DZ-19		P.783	214+38.68	LT				CLP_I077																															
D-400	2002017	P.783	214+66.00	RT	TO	215+55.00	RT	CLP_I077								89																								
DZ-20		P.783	215+11.70	LT				CLP_I077																															
DZ-21		P.783	215+33.24	LT				CLP_I077																															
DZ-21A		P.783	215+39.02					CLP_I077																															
D-404		P.783	215+51.48	LT	TO	215+55.00	LT	CLP_I077										10																				
D-401	2002018	P.783	215+55.00	RT	TO	215+55.00	LT	CLP_I077								9																								
DZ-22		P.783	215+62.50	LT				CLP_I077																															
DZ-23		P.783	216+13.50	LT				CLP_I077																															
DZ-24		P.783	216+41.32	LT				CLP_I077																															
DZ-25		P.783	216+76.31	LT				CLP_I077																															
DZ-26		P.784	217+28.28	LT				CLP_I077																															
DZ-27		P.784	217+42.37	LT				CLP_I077																															
TOTALS CARRIED TO P.744											15	5				257	56	30		3	77	283	16	19			6	10			299				182	163		198			

DRAINAGE SUBSUMMARY

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.741 TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: Sheet 13 PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 4:09:09 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCE.v02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	611 36" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 36" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 42" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 48" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 48" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 48" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 54" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 54" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 60" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 66" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 14" X 23" CONDUIT, TYPE B, 706.04, AS PER PLAN 1 FT	611 19" X 30" CONDUIT, TYPE B, 706.04, AS PER PLAN 1 FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 15", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 18", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 21", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 24", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 27", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 30", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 36", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 60", TYPE B FT	611 CONDUIT, MISC.: 14" X 23" CONDUIT, TYPE C, 706.04, AS PER PLAN 1 FT	611 CONDUIT, MISC.: 24" X 38" CONDUIT, TYPE C, 706.04, AS PER PLAN 1 FT	611 CATCH BASIN, NO. 3A EACH	611 CATCH BASIN, NO. 5 EACH	611 CATCH BASIN, NO. 5, AS PER PLAN EACH	611 CATCH BASIN, NO. 6, AS PER PLAN EACH	611 CATCH BASIN, NO. 8 WITHOUT APRON EACH	611 CATCH BASIN, NO. 2-3 EACH	611 CATCH BASIN, NO. 2-3 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN, NO. 2-5 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN, NO. 2-6 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN ADJUSTED TO GRADE EACH	611 CATCH BASIN RECONSTRUCTED TO GRADE EACH
D-194	2002002	P.779	193+98.00	LT	TO	194+00.00	LT	CLP_I077														65																	
D-195	2002003	P.779	193+98.00	LT	TO	196+89.00	LT	CLP_I077				296																											
DZ-10		P.779	194+78.22	RT				CLP_I077																															
DZ-9		P.779	194+78.90	RT				CLP_I077																															
D-198		P.779	194+84.50	RT	TO	196+50.50	RT	CLP_I077																															
DZ-11		P.779	194+93.12	RT				CLP_I077																															
D-197		P.779-P.780	196+50.50	RT	TO	199+19.01	RT	CLP_I077												269											1							
D-199	2002004	P.779-P.780	196+89.00	LT	TO	197+00.00	LT	CLP_I077																							1							
D-201A	2002005	P.779-P.780	196+89.00	LT	TO	198+38.10	LT	CLP_I077				149																										
D-200		P.779-P.780	197+00.00	LT	TO	197+09.04	LT	CLP_I077																														
D-201B		P.780	198+38.10	LT	TO	198+39.30	LT	CLP_I077				24																										
D-201		P.780	198+39.30	LT	TO	199+21.67	LT	CLP_I077					82																										
D-210	2002012	P.780	199+06.17	LT	TO	199+21.67	LT	CLP_I077																															
D-205	2002009	P.780	199+19.01	RT	TO	199+20.00	LT	CLP_I077																															
D-206		P.780	199+19.01	RT	TO	200+35.09	RT	CLP_I077																															
D-202	2002006	P.780	199+20.00	LT	TO	199+21.67	LT	CLP_I077																															
D-203	2002007	P.780	199+20.00	LT	TO	200+17.51	LT	CLP_I077																															
D-211	2002013	P.780	199+21.67	LT	TO	200+16.50	LT	CLP_I077																															
D-212E	2002015	P.780	199+98.00	LT	TO	200+19.50	LT	CLP_I077																															
D-212		P.780	200+16.50	LT	TO	200+19.50	LT	CLP_I077																															
D-213		P.780	200+16.50	LT	TO	201+19.00	LT	CLP_I077																															
D-212D	2002014	P.780	200+19.50	LT	TO	200+42.00	LT	CLP_I077																															
D-207		P.780-P.781	200+35.09	RT	TO	202+16.94	RT	CLP_I077																							1							
D-204	2002008	P.780	201+15.00	LT	TO	201+22.00	LT	CLP_I077														57																
D-214		P.780	201+19.00	LT	TO	201+22.00	LT	CLP_I077																															
D-215		P.780-P.781	201+19.00	LT	TO	203+01.34	LT	CLP_I077																															
D-208		P.781	202+16.94	RT	TO	204+88.77	RT	CLP_I077																							1							
D-215C		P.781	203+01.34	LT	TO	203+04.00	LT	CLP_I077																															
DZ-12		P.781	204+35.96	LT				CLP_I077																													1		
D-209	2002011	P.781	204+88.77	RT	TO	204+98.00	RT	CLP_I077																							1							
D-405	2002020	P.782	210+31.50	LT	TO	210+35.78	LT	CLP_I077																															
DZ-14		P.782	210+35.78	LT				CLP_I077																															1
D-399		P.782	211+57.40	LT	TO	211+77.53	LT	CLP_I077																															
DZ-16		P.783	212+08.64	LT				CLP_I077																															
DZ-18		P.783	213+42.14	LT				CLP_I077																															
DZ-19		P.783	214+38.68	LT				CLP_I077																													1		
D-400	2002017	P.783	214+66.00	RT	TO	215+55.00	RT	CLP_I077																															
DZ-20		P.783	215+11.70	LT				CLP_I077																													1		
DZ-21		P.783	215+33.24	LT				CLP_I077																															
DZ-21A		P.783	215+39.02					CLP_I077																													1		
D-404		P.783	215+51.48	LT	TO	215+55.00	LT	CLP_I077																															
D-401	2002018	P.783	215+55.00	RT	TO	215+55.00	LT	CLP_I077																															
DZ-22		P.783	215+62.50	LT				CLP_I077																													1		
DZ-23		P.783	216+13.50	LT				CLP_I077																													1		
DZ-24		P.783	216+41.32	LT				CLP_I077																													1		
DZ-25		P.783	216+76.31	LT				CLP_I077																															
DZ-26		P.784	217+28.28	LT				CLP_I077																															
DZ-27		P.784	217+42.37	LT				CLP_I077																													1		
TOTALS CARRIED TO P.745												469	82							269		122					146			6					8	1

DRAINAGE SUBSUMMARY

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.742 TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: Sheet 14 PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 3:54:33 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCE.v02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn

| REF NO. | CFN NO. | SHEET NO. | STATION TO STATION | | | | | ALIGNMENT | 611 INLET, NO. 2-A-6 EACH | 611 INLET, NO. 2-A-8 EACH | 611 INLET, NO. 2-A-10 EACH | 611 INLET, NO. 2-A-12 EACH | 611 INLET, NO. 2-A-16 EACH | 611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1 EACH | 611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1 EACH | 611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN EACH | 611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D EACH | 611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 1 EACH | 611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 2 EACH | 611 INLET, MISC.; BARRIER INLET SCREEN EACH | 611 MANHOLE, NO. 3 EACH | 611 MANHOLE, NO. 3 WITH 60" BASE I.D. EACH | 611 MANHOLE, NO. 3 WITH 72" BASE I.D. EACH | 611 MANHOLE, NO. 3 WITH 84" BASE I.D. EACH | 611 MANHOLE, NO. 3 WITH 90" BASE I.D. EACH | 611 MANHOLE, NO. 3 WITH 96" BASE I.D. EACH | 611 MANHOLE, NO. 3 WITH 108" BASE I.D. EACH | 611 MANHOLE, NO. 3, AS PER PLAN EACH | 611 MANHOLE, NO. 3, AS PER PLAN WITH 72" BASE I.D. EACH | 611 MANHOLE, NO. 3, AS PER PLAN WITH 84" BASE I.D. EACH | 611 MANHOLE, NO. 3, AS PER PLAN WITH 96" BASE I.D. EACH | 611 MANHOLE, NO. 5, AS PER PLAN EACH | 611 MANHOLE ADJUSTED TO GRADE EACH | 611 MANHOLE ADJUSTED TO GRADE, AS PER PLAN EACH | 611 MANHOLE RECONSTRUCTED TO GRADE EACH | 611 MANHOLE, MISC.: MANHOLE ADJUSTED TO GRADE WITH BOLTED COVER EACH | 611 MANHOLE, MISC.: MANHOLE NO. 3 WITH BOLTED COVER EACH | 611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 60" BASE I.D. WITH BOLTED COVER EACH | 611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 72" BASE I.D. WITH BOLTED COVER EACH | 611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 84" BASE I.D. WITH BOLTED COVER EACH | 611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 90" BASE I.D. WITH BOLTED COVER EACH | 611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 96" BASE I.D. WITH BOLTED COVER EACH | 611 DRAINAGE STRUCTURE, MISC.: RESHAPE AND REESTABLISH EXISTING CONNECTION EACH |
|---|---|---

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	602 CONCRETE MASONRY CY	611 6" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 6" CONDUIT, TYPE B, AS PER PLAN 1, 707.65 FT	611 6" CONDUIT, TYPE C, AS PER PLAN 1, 707.65 FT	611 8" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 8" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 12" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 1, 707.65 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 3 FT	611 15" CONDUIT, TYPE B, AS PER PLAN 5 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 1, 707.65 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 3 FT	611 15" CONDUIT, TYPE C, AS PER PLAN 4 FT	611 18" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 18" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 18" CONDUIT, TYPE B, AS PER PLAN 1, 707.65 FT	611 18" CONDUIT, TYPE B, AS PER PLAN 2 FT	611 18" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 18" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 21" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 21" CONDUIT, TYPE B, AS PER PLAN 3 FT	611 21" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 24" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 24" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 24" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 24" CONDUIT, TYPE C, AS PER PLAN 1, 707.01 FT	611 27" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 30" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 30" CONDUIT, TYPE B, AS PER PLAN 2 FT	611 30" CONDUIT, TYPE C, AS PER PLAN 5 FT
DZ-28		P.784	218+44.05	LT				CLP_I077																																
DZ-29		P.784	218+68.32	RT				CLP_I077																																
DZ-31		P.784	219+47.00	LT				CLP_I077																																
D-403		P.784	220+60.41	RT	TO	220+66.89	LT	CLP_I077							10																									
D-408		P.785	223+54.84	RT	TO	223+68.54	LT	CLP_I077			20				10																									
D-110		P.786	300+11.25	RT	TO	300+15.60	RT	BLP_R283A3							4																									
DZ-1		P.786	300+73.08	LT				BLP_R283A3																																
D-1		P.786	78+32.14	LT	TO	78+94.10	LT	CLP_I077							11																						50	11			
D-2	2001848	P.786	78+52.89	LT	TO	78+94.10	LT	CLP_I077								36																								
D-2A	2001849	P.786	78+94.10	LT	TO	78+98.50	RT	CLP_I077																											77					
D-11	2001863	P.787	81+47.25	LT	TO	81+60.50	RT	CLP_I077								54																								
D-111		P.788	400+46.58	LT	TO	400+51.31	LT	BLP_R283A4							4																									
D-47B		P.790	109+10.00	RT	TO	109+12.60	RT	BLP_R043B1							8																									
D-O5		P.792	112+09.35	RT				BLP_R043E1	0.27																															
D-208A	2002010	P.792	112+09.35	RT	TO	112+36.00	RT	BLP_R043E1								46																								
TOTALS CARRIED FROM THIS SHEET									0.27		20				47	136			52		60			7									77	50	11					
TOTALS CARRIED FROM P.729													8	20	31	1156																	10	27				182	211	
TOTALS CARRIED FROM P.732									0.54							1023			88		203								284				11	371						
TOTALS CARRIED FROM P.735										9					14	1807			26		330					226	1080			174	474		317				50	5	86	235		
TOTALS CARRIED FROM P.738																857			5		69						735				240								414		88
TOTALS CARRIED FROM P.741											15	5				257	56	30		3	77	283	16	19				6	10			299				182	163		198			
TOTALS CARRIED TO GENERAL SUMMARY									0.81	9	35	5	8	20	92	5236	56	30	171	3	739	283	16	26	226	1815	6	10	458	714	299	317	11	371	87	259	224	5	284	831	211	88

DRAINAGE SUBSUMMARY

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.744 TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: Sheet 16 PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 3:54:34 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCE.v02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	611 36" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 36" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 42" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 48" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 48" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 48" CONDUIT, TYPE C, AS PER PLAN 1, 706.02 FT	611 54" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 54" CONDUIT, TYPE C, AS PER PLAN 1 FT	611 60" CONDUIT, TYPE B, AS PER PLAN 1 FT	611 66" CONDUIT, TYPE B, AS PER PLAN 1, 706.02 FT	611 14" X 23" CONDUIT, TYPE B, 706.04, AS PER PLAN 1 FT	611 19" X 30" CONDUIT, TYPE B, 706.04, AS PER PLAN 1 FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 15", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 18", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 21", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 24", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 27", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 30", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 36", TYPE B FT	611 CONDUIT, BORED OR JACKED, AS PER PLAN 1, 60", TYPE B FT	611 CONDUIT, MISC.: 14" X 23" CONDUIT, TYPE C, 706.04, AS PER PLAN 1 FT	611 CONDUIT, MISC.: 24" X 38" CONDUIT, TYPE C, 706.04, AS PER PLAN 1 FT	611 CATCH BASIN, NO. 3A EACH	611 CATCH BASIN, NO. 5 EACH	611 CATCH BASIN, NO. 5, AS PER PLAN EACH	611 CATCH BASIN, NO. 6, AS PER PLAN EACH	611 CATCH BASIN, NO. 8 WITHOUT APRON EACH	611 CATCH BASIN, NO. 2-3 EACH	611 CATCH BASIN, NO. 2-3 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN, NO. 2-5 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN, NO. 2-6 WITH BICYCLE SAFE GRATE EACH	611 CATCH BASIN ADJUSTED TO GRADE EACH	611 CATCH BASIN RECONSTRUCTED TO GRADE EACH
DZ-28		P.784	218+44.05	LT				CLP_I077																													1	
DZ-29		P.784	218+68.32	RT				CLP_I077																													1	
DZ-31		P.784	219+47.00	LT				CLP_I077																													1	
D-403		P.784	220+60.41	RT	TO	220+66.89	LT	CLP_I077																														
D-408		P.785	223+54.84	RT	TO	223+68.54	LT	CLP_I077																														
D-110		P.786	300+11.25	RT	TO	300+15.60	RT	BLP_R283A3																											1			
DZ-1		P.786	300+73.08	LT				BLP_R283A3																														1
D-1		P.786	301+45.41	LT	TO	302+05.00	LT	BLP_R283A3																														
D-2	2001848	P.786	301+65.56	LT	TO	302+05.00	LT	BLP_R283A3																														
D-2A	2001849	P.786	302+05.00	LT	TO	302+13.18	RT	BLP_R283A3																														
D-11	2001863	P.787	304+50.00	LT	TO	304+69.01	RT	BLP_R283A3																														
D-111		P.788	400+46.58	LT	TO	400+51.31	LT	BLP_R283A4																											1			
D-47B		P.790	109+10.00	RT	TO	109+12.60	RT	BLP_R043B1																														
D-O5		P.792	112+09.35	RT				BLP_R043E1																														
D-208A	2002010	P.792	112+09.35	RT	TO	112+36.00	RT	BLP_R043E1																											1			
TOTALS CARRIED FROM THIS SHEET																																	3				3	1
TOTALS CARRIED FROM P.730									30	8					550	444	1459				300			224			117						1		2					
TOTALS CARRIED FROM P.733																	2968				283	45	75					165					2		4					
TOTALS CARRIED FROM P.736																		132			56		58		134	61				64	51		1	1	2					
TOTALS CARRIED FROM P.739											18	14	1830	8					133		421	54										5			2	4	2	2	
TOTALS CARRIED FROM P.742												469	82							269	122					146							6					8	1
TOTALS CARRIED TO GENERAL SUMMARY									30	8	18	583	1912	8	550	444	4427	132	133	269	1182	99	133	224	134	207	117	165		64	51	3	9	1	5	1	7	4	4	2	13	2

DRAINAGE SUBSUMMARY

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.745 TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: Sheet 17 PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 3:54:35 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn

REF NO.	CFN NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	611 INLET, NO. 2-A-6 EACH	611 INLET, NO. 2-A-8 EACH	611 INLET, NO. 2-A-10 EACH	611 INLET, NO. 2-A-12 EACH	611 INLET, NO. 2-A-16 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN 2 EACH	611 INLET, MISC.; BARRIER INLET SCREEN EACH	611 MANHOLE, NO. 3 EACH	611 MANHOLE, NO. 3 WITH 60" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 72" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 84" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 90" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 96" BASE I.D. EACH	611 MANHOLE, NO. 3 WITH 108" BASE I.D. EACH	611 MANHOLE, NO. 3, AS PER PLAN EACH	611 MANHOLE, NO. 3, AS PER PLAN WITH 72" BASE I.D. EACH	611 MANHOLE, NO. 3, AS PER PLAN WITH 84" BASE I.D. EACH	611 MANHOLE, NO. 3, AS PER PLAN WITH 96" BASE I.D. EACH	611 MANHOLE, NO. 5, AS PER PLAN EACH	611 MANHOLE ADJUSTED TO GRADE EACH	611 MANHOLE ADJUSTED TO GRADE, AS PER PLAN EACH	611 MANHOLE RECONSTRUCTED TO GRADE EACH	611 MANHOLE, MISC.: MANHOLE ADJUSTED TO GRADE WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 60" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 72" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 84" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 90" BASE I.D. WITH BOLTED COVER EACH	611 MANHOLE, MISC.: MANHOLE NO. 3 WITH 96" BASE I.D. WITH BOLTED COVER EACH	611 DRAINAGE STRUCTURE, MISC.: RESHAPE AND REESTABLISH EXISTING CONNECTION EACH
DZ-28		P.784	218+44.05	LT				CLP_I077																																		
DZ-29		P.784	218+68.32	RT				CLP_I077																																			
DZ-31		P.784	219+47.00	LT				CLP_I077																																			
D-403		P.784	220+60.41	RT	TO	220+66.89	LT	CLP_I077								1				1			1																				
D-408		P.785	223+54.84	RT	TO	223+68.54	LT	CLP_I077								1				1																						
D-110		P.786	300+11.25	RT	TO	300+15.60	RT	BLP_R283A3																																		
DZ-1		P.786	300+73.08	LT				BLP_R283A3																																		
D-1		P.786	301+45.41	LT	TO	302+05.00	LT	BLP_R283A3																1																	
D-2	2001848	P.786	301+65.56	LT	TO	302+05.00	LT	BLP_R283A3			1																														
D-2A	2001849	P.786	302+05.00	LT	TO	302+13.18	RT	BLP_R283A3																1																	
D-11	2001863	P.787	304+50.00	LT	TO	304+69.01	RT	BLP_R283A3				1																													
D-111		P.788	400+46.58	LT	TO	400+51.31	LT	BLP_R283A4																																	
D-47B		P.790	109+10.00	RT	TO	109+12.60	RT	BLP_R043B1		1																															
D-O5		P.792	112+09.35	RT				BLP_R043E1																																		
D-208A	2002010	P.792	112+09.35	RT	TO	112+36.00	RT	BLP_R043E1																																		
TOTALS CARRIED FROM THIS SHEET										1	1	1				2			2																				
TOTALS CARRIED FROM P.731									3	6	5			1	5		7	1		14	1	3			3				1	1	1	1				4			3	1	
TOTALS CARRIED FROM P.734									3	3	4	3		1	6		7			14	3	1				1	1						1			1	1			3	9	
TOTALS CARRIED FROM P.737									3	2	7	5	1	1	2		6		2	11	7	2	1								1				1	2	1			1	
TOTALS CARRIED FROM P.740										1	4			2	5		3			10	6		1	4		1							3		3		2					1
TOTALS CARRIED FROM P.743										2	5			3	2		2			7	2	4		7		1		1					3			5			1	2			
TOTALS CARRIED TO GENERAL SUMMARY									9	15	26	9	1	8	20	2	25	1	2	58	19	12	2	7		2	1	1	1	1	1	1	1	6	1	3	5	8	3	2	2	6	11	1

DRAINAGE SUBSUMMARY

DESIGN AGENCY
AECOM

DESIGNER
SMS

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.746 | TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: Sheet 18 PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 3:54:36 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCE.v02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS002.dgn

REF NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	CRITICAL INVERTS		601 TIED CONCRETE BLOCK MAT, TYPE 1	605 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	605 6" UNCLASSIFIED PIPE UNDERDRAINS	611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	611 PRECAST REINFORCED CONCRETE OUTLET	BENDS AND BRANCHES FOR INFORMATION ONLY						
															6"X22.5° BEND	6"X45° BEND	6"X60° BEND	6"X90° BEND	6"X6" TEE	6"X6" WYE	6"X6" CROSS
										SY	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
UD-242	P.778-P.779	190+99	RT	TO	194+85	RT	CLP_I077				378										
UD-243	P.778-P.779	103+42	LT	TO	104+37	LT	BLP_R329D1				97		27						1		
UD-244	P.778	104+15	RT	TO	104+40	RT	BLP_R329D1				11		10		1						
UD-245	P.779	104+15	RT	TO	104+40	RT	BLP_R329D1				37		10		1						
UD-246	P.779	104+37	LT	TO	106+50	LT	BLP_R329D1				215										
UD-247	P.779	192+13	LT	TO	193+98	LT	CLP_I077	666.97	665.14		159	20									
UD-248	P.779	202+86	RT	TO	204+27	RT	BLP_R329D2	669.46	669.42	1.78	137	8	13	1					1		
UD-249	P.779	104+80	RT	TO	106+50	RT	BLP_R329D1				162		10								
UD-250	P.779	204+27	RT	TO	205+90	RT	BLP_R329D2	669.47	669.42		153	5									
UD-251	P.779	204+62	LT	TO	205+90	LT	BLP_R329D2	669.42	669.90		108	20									
UD-251A	P.778-P.779	188+84	LT	TO	204+70	LT	BLP_R329D2	669.09	669.9		474	38	25			1		1			
UD-252	P.779-P.780	193+91	LT	TO	199+08	LT	CLP_I077				524		10		1						
UD-253	P.779-P.780	193+91	LT	TO	199+38	LT	CLP_I077	657.68	657.54		519	29	35						1		
UD-254	P.779-P.780	194+02	LT	TO	199+20	LT	CLP_I077				505		10								
UD-255	P.779-P.780	194+87	RT	TO	199+20	RT	CLP_I077	657.82	657.66		413	20	23						1		
UD-255A	P.780	199+20	RT	TO	199+38	RT	CLP_I077	657.68	657.66			18									
UD-256	P.779-P.780	194+87	RT	TO	200+35	RT	CLP_I077	657.16	657.07		529	18	34						1		1
UD-257	P.779-P.780	194+87	RT	TO	200+35	RT	CLP_I077	656.66	656.57		529	18									
UD-258	P.779-P.780	199+12	LT	TO	199+98	LT	CLP_I077				78		10		1						
UD-259	P.780	199+22	LT	TO	200+18	LT	CLP_I077				84		10								
UD-260	P.780	200+04	LT	TO	200+20	LT	CLP_I077				2		10		1						
UD-261	P.780-P.781	200+35	RT	TO	204+96	RT	CLP_I077	657.18	657.07		441	20									
UD-262	P.780	200+18	LT	TO	201+13	LT	CLP_I077				84		10								
UD-263	P.780	200+18	LT	TO	200+16	LT	CLP_I077				564										
UD-263A	P.780	199+38	LT	TO	200+16	LT	CLP_I077				79		10						1		
UD-264	P.780	200+20	LT	TO	200+37	LT	CLP_I077				11		10		1						
UD-265	P.780-P.781	102+23	RT	TO	106+89	RT	CLP_I077	656.67	656.57		445	20									
UD-266	P.780	200+42	LT	TO	201+16	LT	CLP_I077				66		10		1						
UD-267	P.780-P.781	200+42	LT	TO	201+16	LT	CLP_I077				453		10								
UD-268	P.780-P.781	201+22	LT	TO	202+99	LT	CLP_I077				170		10								
UD-269	P.780-P.781	203+04	LT	TO	205+79	LT	CLP_I077				267		10								
UD-270	P.781	203+84	RT	TO	204+98	RT	CLP_I077	658.29	657.72			114									
UD-271	P.781	105+70	LT	TO	106+83	LT	BLP_R043E1	658.21	657.67			109	15			1			1		
UD-272	P.781	204+03	LT	TO	205+79	LT	CLP_I077				177		9					1	1		
UD-273	P.791-P.792	106+78	LT	TO	113+64	LT	BLP_R043E1	658.99	657.67		670	20									
UD-274	P.791-P.792	106+83	RT	TO	112+33	RT	BLP_R043E1				652		16								
UD-275	P.781	204+98	RT	TO	205+79	RT	CLP_I077				82		21					1			1
UD-276	P.781	204+98	RT	TO	205+79	RT	CLP_I077	658.70	657.72		62	20									
UD-277	P.781-P.782	205+79	LT	TO	210+32	LT	CLP_I077				444		10								
UD-278	P.781-P.782	205+79	LT	TO	211+68	LT	CLP_I077				588		5					1			
UD-279	P.781-P.782	205+79	LT	TO	211+37	LT	CLP_I077				558		8					1	1		
UD-280	P.781-P.783	205+79	LT	TO	215+55	LT	CLP_I077				964		10								
UD-281	P.781-P.782	205+79	RT	TO	208+08	RT	CLP_I077				228		10					1	1		
UD-282	P.781-P.782	205+79	RT	TO	208+08	RT	CLP_I077				228										
UD-283	P.782-P.783	208+08	RT	TO	215+55	RT	CLP_I077				747		4						1		
UD-284	P.782-P.783	210+37	LT	TO	211+68	LT	CLP_I077				116		10								
UD-285	P.782-P.783	211+70	LT	TO	212+09	LT	CLP_I077				27		10		1						
UD-286	P.782-P.783	211+73	LT	TO	212+04	LT	CLP_I077				19		10								
UD-287	P.783	212+07	LT	TO	213+75	LT	CLP_I077				168										
UD-288	P.783	212+10	LT	TO	213+42	LT	CLP_I077				130										
TOTALS CARRIED TO P.753										1.8	13555	497	445	1							

UNDERDRAIN SUBSUMMARY

DESIGN AGENCY
AECOM

DESIGNER
DL

REVIEWER
MAW 05/01/26

PROJECT ID
105743

SHEET P.752 TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: Sheet 6 PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 9:47:46 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS003.dgn
y.stefanek@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
eeringDrainage\Sheets\105743_DS003.dgn

REF NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	CRITICAL INVERTS		601 TIED CONCRETE BLOCK MAT, TYPE 1	605 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	605 6" UNCLASSIFIED PIPE UNDERDRAINS	611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	611 PRECAST REINFORCED CONCRETE OUTLET							BENDS AND BRANCHES FOR INFORMATION ONLY						
																					6"X22.5° BEND	6"X45° BEND	6"X60° BEND	6"X90° BEND	6"X6" TEE	6"X6" WYE	6"X6" CROSS
										SY	FT	FT	FT	EACH							EACH	EACH	EACH	EACH	EACH	EACH	EACH
UD-288A	P.783	213+45	LT	TO	213+75	LT	CLP_I077				30																
UD-289	P.783-P.784	215+55	LT	TO	217+46	LT	CLP_I077				179		10														
UD-289A	P.784	217+48	LT	TO	220+84	LT	CLP_I077				324		10														
UD-290	P.783-P.784	215+55	LT	TO	220+84	LT	CLP_I077				529																
TOTALS CARRIED FROM THIS SHEET											1062		20														
TOTALS CARRIED FROM P.747											11465	188	662														
TOTALS CARRIED FROM P.748											15536	326	669														
TOTALS CARRIED FROM P.749										3.6	16861	297	547	2													
TOTALS CARRIED FROM P.750											10848	46	549														
TOTALS CARRIED FROM P.751											22115		715														
TOTALS CARRIED FROM P.752										1.8	13555	497	445	1													
TOTALS CARRIED TO GENERAL SUMMARY										5.4	92042	1354	3607	3													

UNDERDRAIN SUBSUMMARY

CUY-77-11.41 - PART 1

DESIGN AGENCY
AECOM

DESIGNER DL

REVIEWER MAW 05/01/26

PROJECT ID 105743

SHEET P.753 | TOTAL P.1274

MODEL: Sheet 7 PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 9:48:31 PM PLTDRV: OHDOT_PDF.pltdg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DS003.dgn

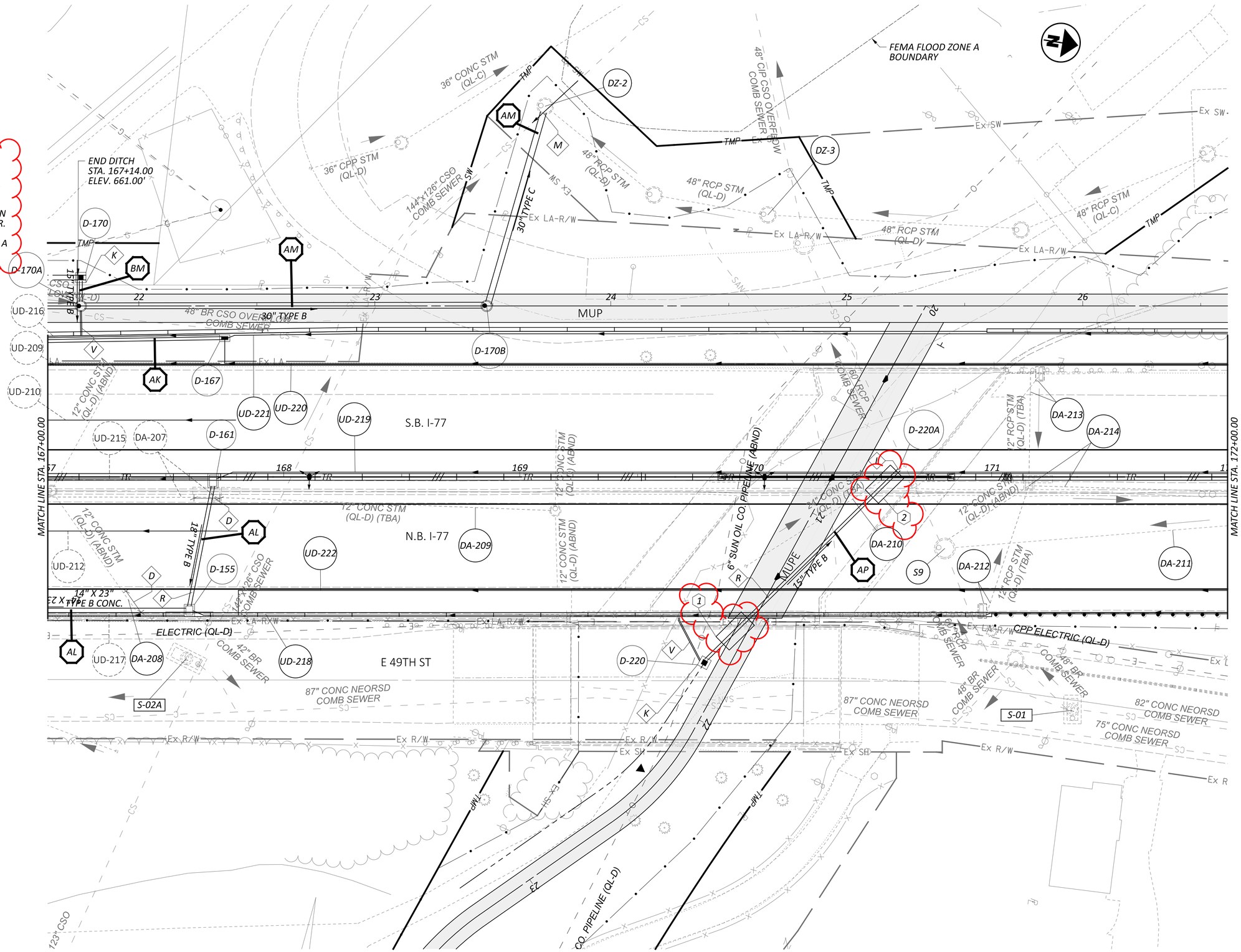
NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.305 - P.360

FOR STORM SEWER PROFILES, SEE SHEETS P.793 - P.832

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.716

1. *APPROXIMATE BORE PIT LOCATION*
2. *APPROXIMATE BORE PIT LOCATION. DO NOT DISTURB EXISTING 60" COMBINED SEWER. DO NOT DISTURB EXISTING 24" CONNECTION TO EXISTING 60" COMBINED SEWER. CONNECT THE PROPOSED 15" STORM TO THE EXISTING 24" WITH A CONCRETE COLLAR.*



HORIZONTAL SCALE IN FEET
0 10 20 40

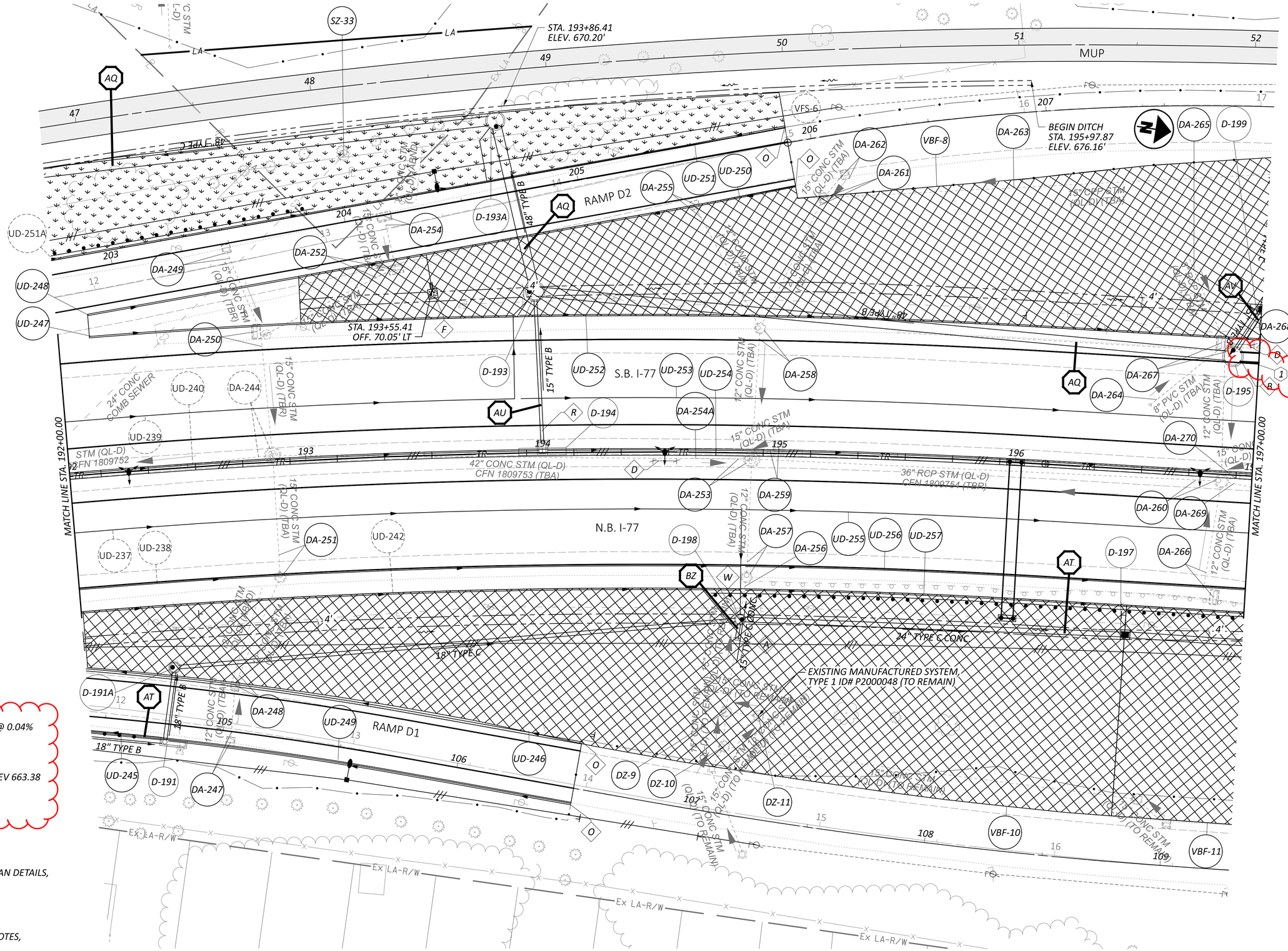
DRAINAGE PLAN - I.R. 77
STA. 167+00.00 TO STA. 172+00.00

CUY-77-11.41 - PART 1

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.774 TOTAL P.1274

MODEL: CLP_i077 - Plan 21 PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 2:43:26 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stelanek@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DP021.dgn



1 149' - 48" TYPE B, APP 1 @ 0.04%
CFN 2002005

D-195
STA. 196+89.00, 50.00' LT
MH-3 W/ 72" BASE I.D., RIM ELEV 663.38
48" TYPE B, APP 1 (N) 650.60
15" TYPE B, APP 1 (NW) 657.32
48" TYPE B, APP 1 (S) 650.60

NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS,
SEE SHEETS P.305 - P.360

FOR STORM SEWER PROFILES,
SEE SHEETS P.793 - P.832

FOR LEGEND AND DIAMOND NOTES,
SEE SHEET P.716

HORIZONTAL SCALE IN FEET
0 10 20 40

DRAINAGE PLAN - I.R. 77
STA. 192+00.00 TO STA. 197+00.00

DESIGN AGENCY
AECOM

DESIGNER SMS
REVIEWER AKM 05/01/26
PROJECT ID 105743
SHEET P.779 TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: CLP_I077 - Plan 26 PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 2:27:49 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DP026.dgn

NOTES

FOR ADDITIONAL ROADWAY PLAN DETAILS, SEE SHEETS P.305 - P.360

FOR STORM SEWER PROFILES, SEE SHEETS P.793 - P.832

FOR RAMP E1 DRAINAGE PLAN, SEE SHEETS P.791 - P.792

FOR LEGEND AND DIAMOND NOTES, SEE SHEET P.716

D-201A
STA. 198+38.10, 50.08' LT
MH-3 W/ 84" BASE I.D. W/ BOLTED COVER, RIM ELEV 661.28
48" TYPE B, APP 1 (W) 650.66
48" TYPE B, APP 1 (S) 650.66

D-201B
STA. 198+39.30, 74.07' LT
MH-3 W/ 84" BASE I.D., RIM ELEV 665.72
48" TYPE C, APP 1 (N) 650.67
48" TYPE B, APP 1 (E) 650.67

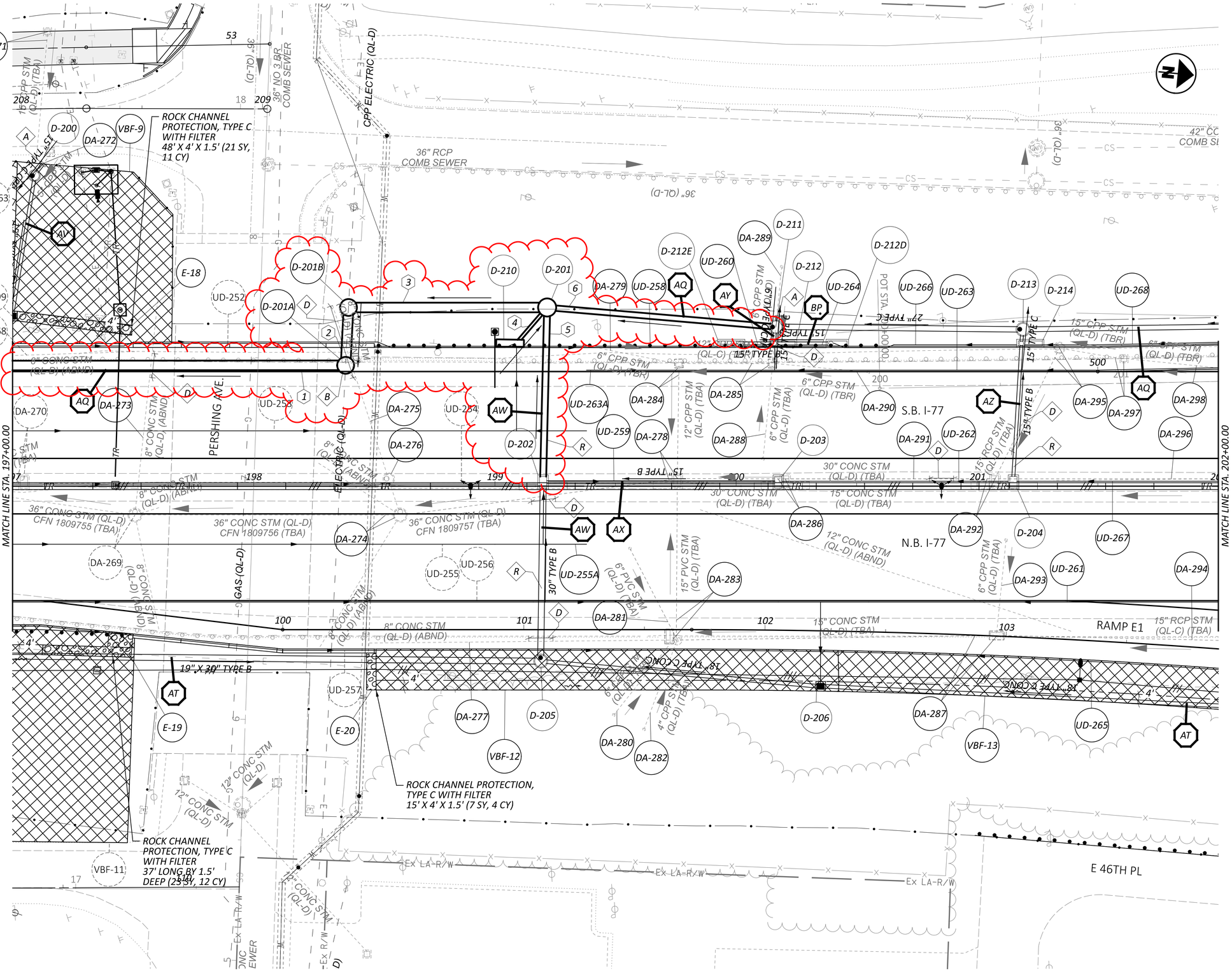
D-201
STA. 199+21.67, 74.07' LT
MH-3 W/ 90" BASE I.D., RIM ELEV 665.33
27" TYPE C, APP 1 (N) 651.00
BORED OR JACKED APP 1,
30" TYPE B (E) 651.00
15" TYPE C, APP 1 (SE) 655.15
48" TYPE C, APP 1 (S) 650.70

D-202
STA. 199+20.00, 2.75' LT
I-3B1, GRATE ELEV 660.20
15" TYPE B, APP 1 (N) 653.49
BORED OR JACKED APP 1,
30" TYPE B (E) 652.24
BORED OR JACKED APP 1,
30" TYPE B (W) 652.24

D-210
STA. 199+06.17, 57.50' LT
I-2A-10, WINDOW ELEV 660.14
15" TYPE C, APP 1 (NW) 655.22

D-211
STA. 200+16.50, 66.00' LT
MH-3 W/ 60" BASE I.D., RIM ELEV 659.18
27" TYPE C, APP 1 (N) 652.35
15" TPYE C, APP 3 (E) 653.70
6" TYPE C CPP, APP 1 (W) 656.70
27" TYPE C, APP 1 (S) 651.80

1. 149' - 48" TYPE B, APP 1 @ 0.04% CFN 2002005
2. 24' - 48" TYPE B, APP 1 @ 0.04%
3. 82' - 48" TYPE C, APP 1 @ 0.04%
4. 18' - 15" TYPE C, APP 1 @ 0.40% CFN 2002012
5. 71' - BORED OR JACKED APP 1, 30" TYPE B @ 1.75% CFN 2002006
6. 95' - 27" TYPE C, APP 1 @ 0.84% CFN 2002013



HORIZONTAL SCALE IN FEET
0 10 20 40

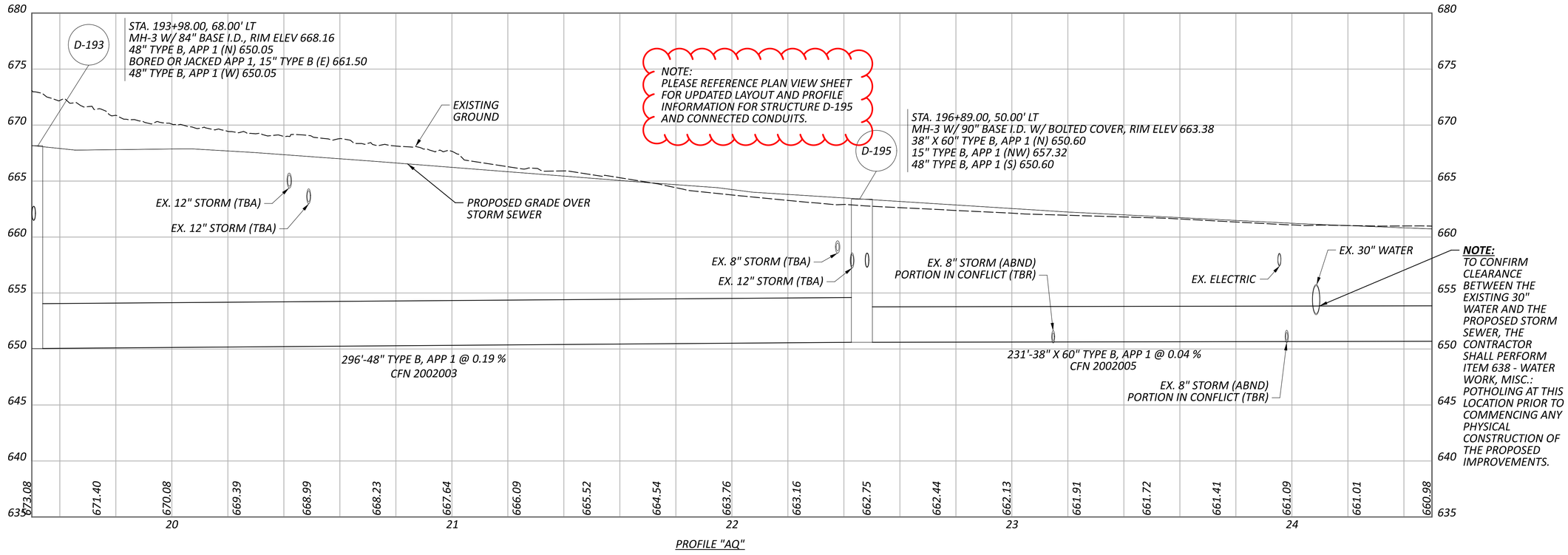
DRAINAGE PLAN - I.R. 77
STA. 197+00.00 TO STA. 202+00.00

CUY-77-11.41 - PART 1

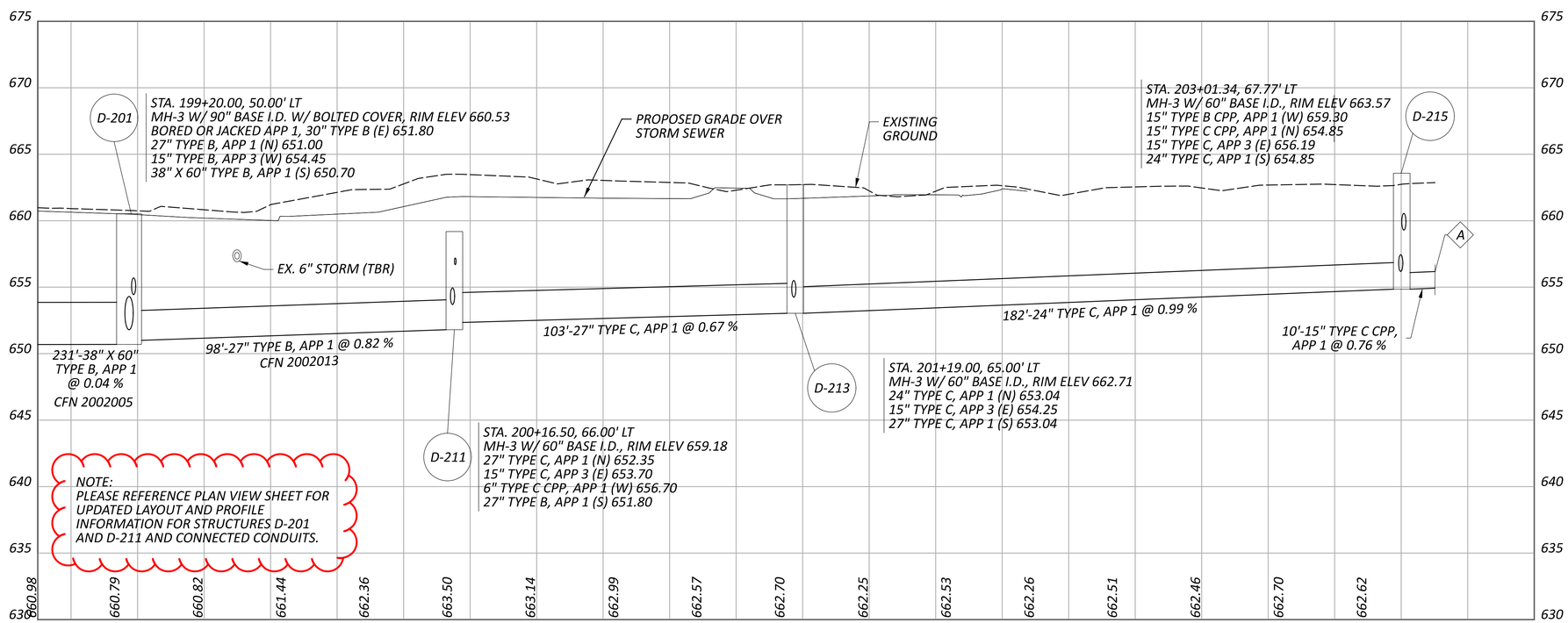
DESIGN AGENCY
AECOM

DESIGNER	SMS
REVIEWER	AKM 05/01/26
PROJECT ID	105743
SHEET	P.780
TOTAL	P.1274

MODEL: CLP_I077 - Plan 27 PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 9:44:10 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DP027.dgn



PROFILE "AQ"



PROFILE "AQ"

DRAINAGE PROFILES - I.R. 77
PROFILE "AQ"

DESIGN AGENCY
AECOM

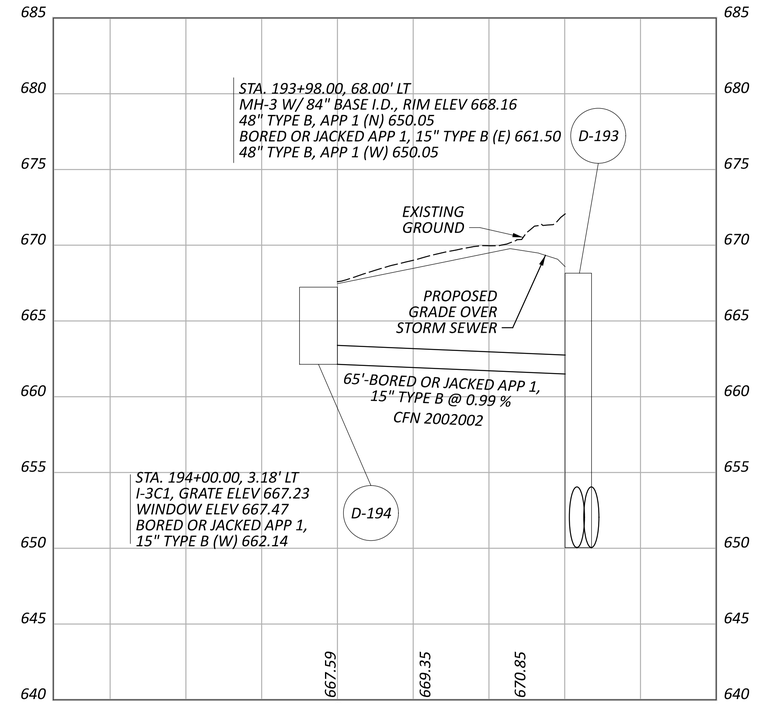
DESIGNER SMS
REVIEWER AKM 11/17/25
PROJECT ID 105743
SHEET P.825 TOTAL P.1274

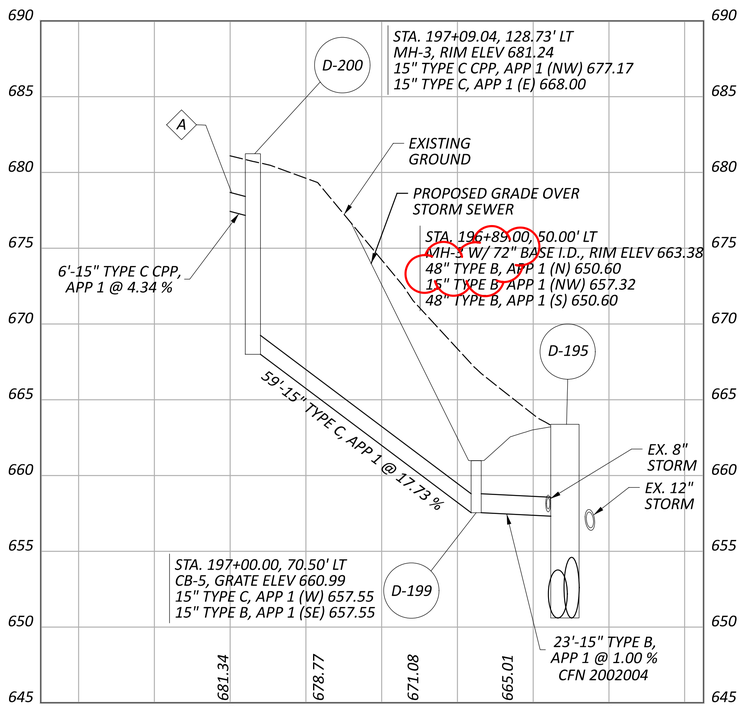
CUY-77-11.41 - PART 1

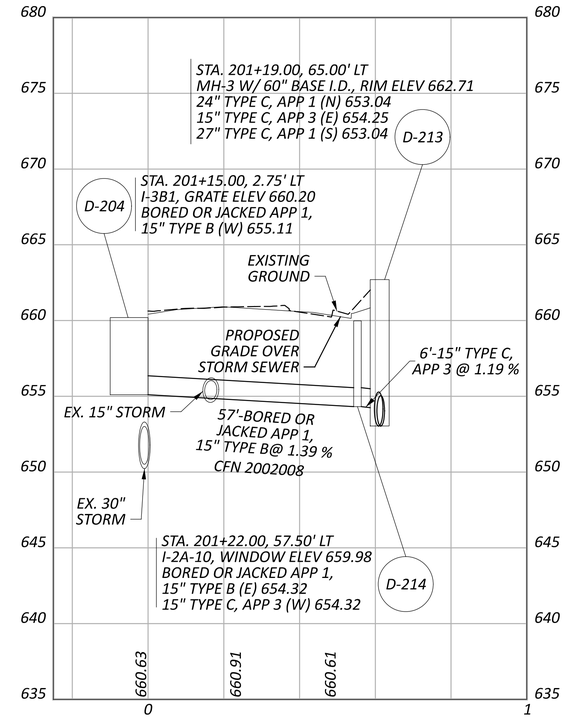
MODEL: Sheet 5 - New Profile AQ - 2026 - AQ - 2030 PAPERSIZE: 34x22 (in.) DATE: 11/10/2026 TIME: 2:33:07 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DF106.dgn

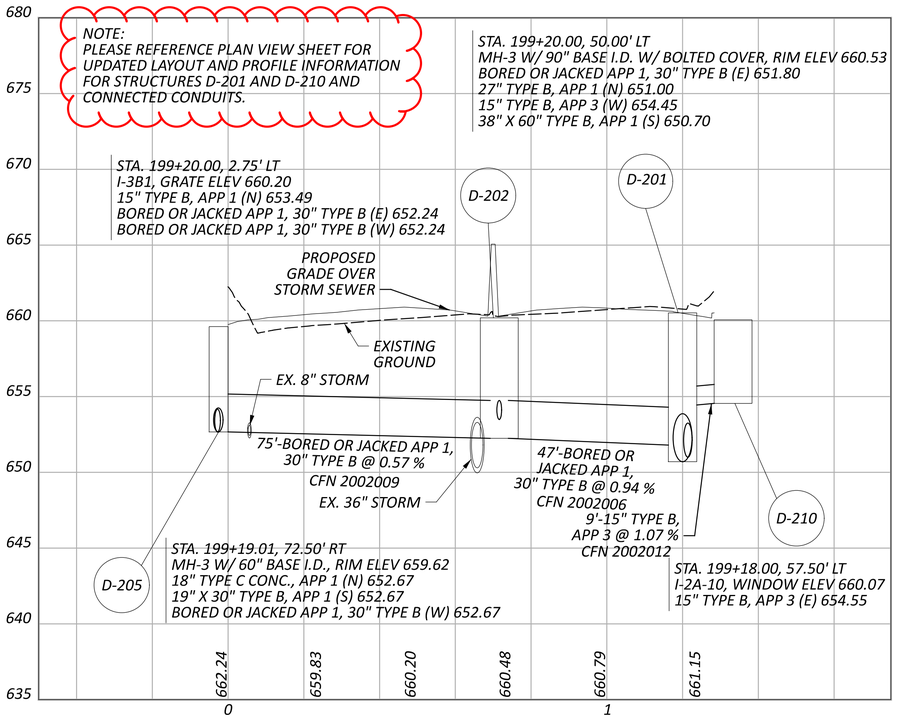
MODEL: Sheet 8 - Profile AU - 2025 - Profile AU - 2025 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 10:58:57 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DF106.dgn
USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25

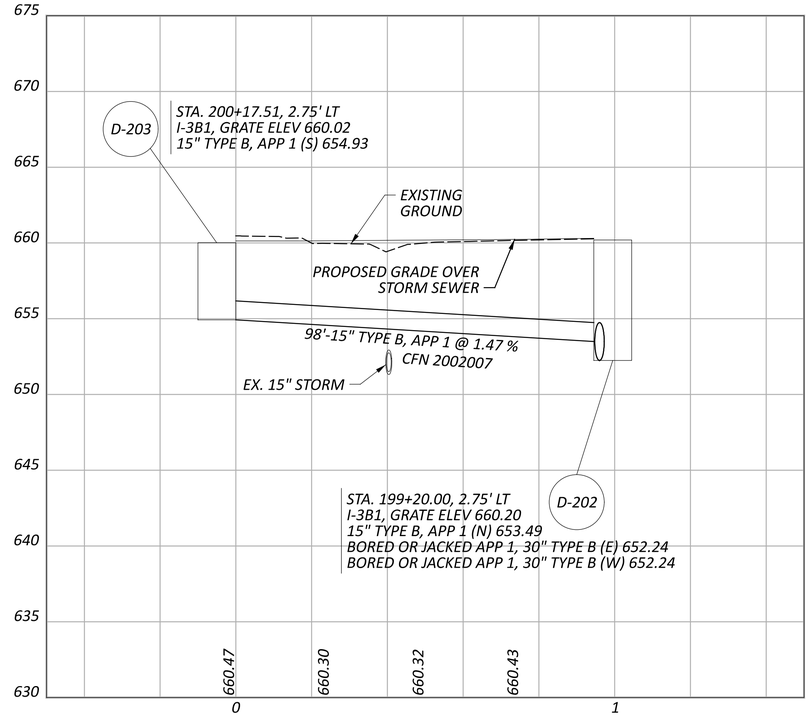
CUY-77-11.41 - PART 1

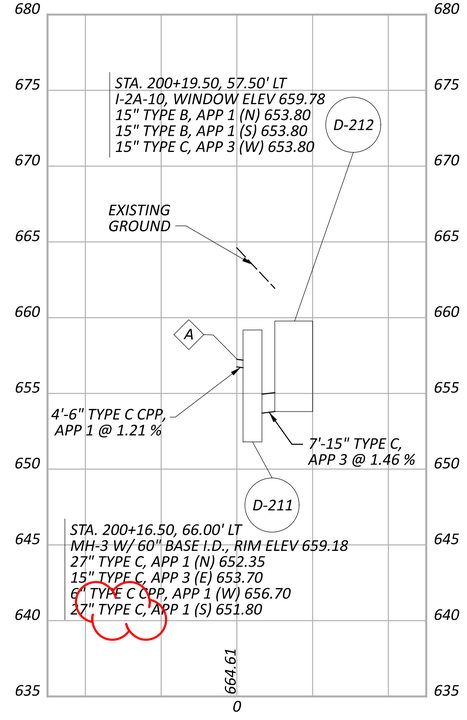






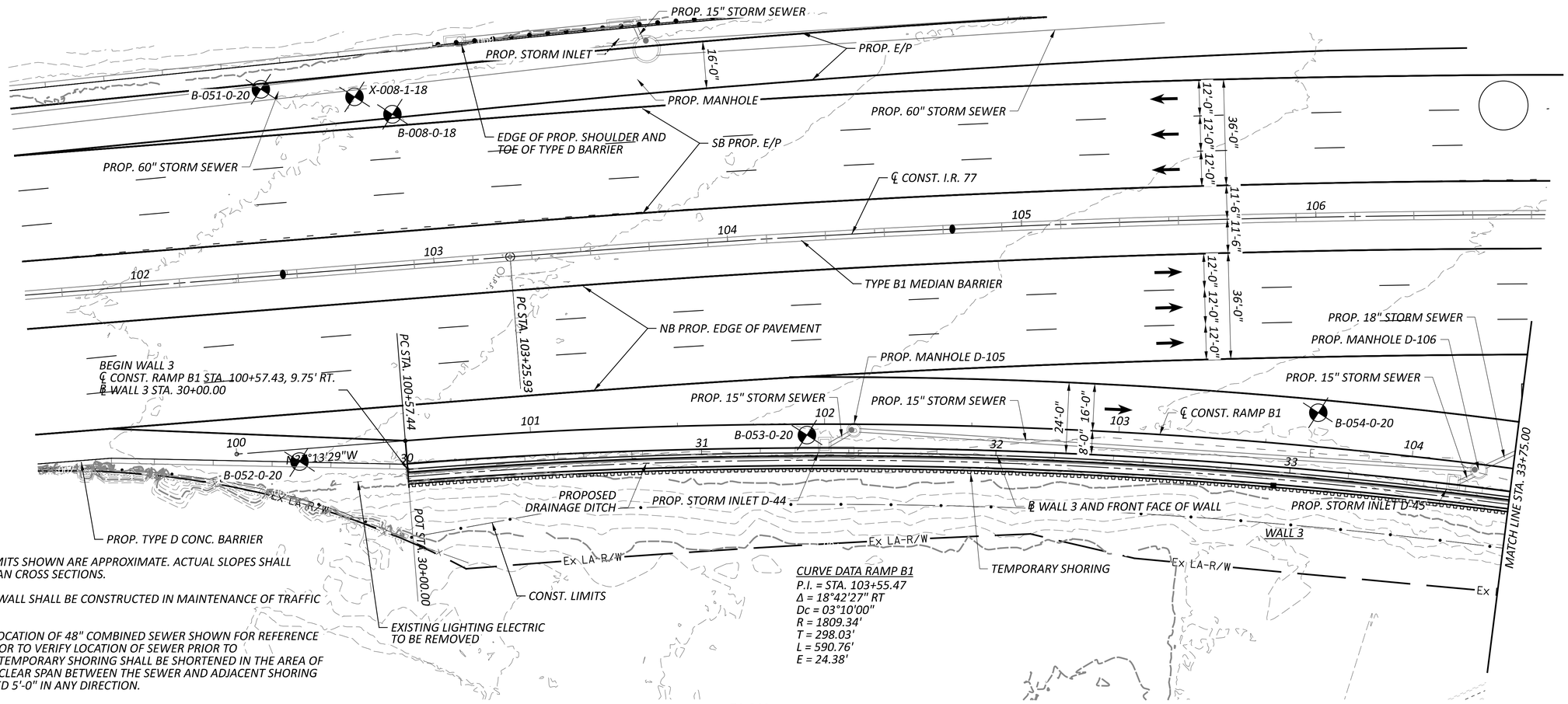






DRAINAGE PROFILES - I.R. 77
PROFILES "AU", "AV", "AW", "AX", "AY", "AZ"

DESIGN AGENCY	AECOM
DESIGNER	SMS
REVIEWER	AKM 11/17/25
PROJECT ID	105743
SHEET	P.828
TOTAL	P.1274



NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 3B.
3. APPROXIMATE LOCATION OF 48" COMBINED SEWER SHOWN FOR REFERENCE ONLY. CONTRACTOR TO VERIFY LOCATION OF SEWER PRIOR TO CONSTRUCTION. TEMPORARY SHORING SHALL BE SHORTENED IN THE AREA OF THE SEWER. THE CLEAR SPAN BETWEEN THE SEWER AND ADJACENT SHORING SHALL NOT EXCEED 5'-0" IN ANY DIRECTION.

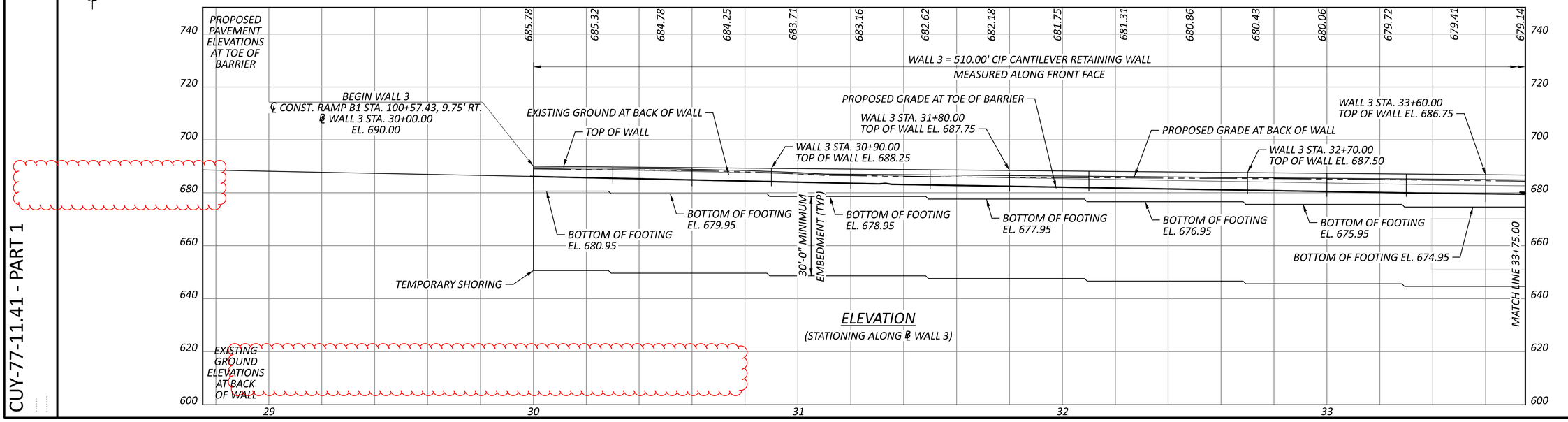
CURVE DATA RAMP B1

P.I. = STA. 103+55.47
Δ = 18°42'27" RT
Dc = 03°10'00"
R = 1809.34'
T = 298.03'
L = 590.76'
E = 24.38'

PLAN

LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION



ELEVATION

(STATIONING ALONG ℄ WALL 3)

CUY-77-11.41 - PART 1

SITE PLAN 1 OF 2
RETAINING WALL 3

DESIGN AGENCY
TRC

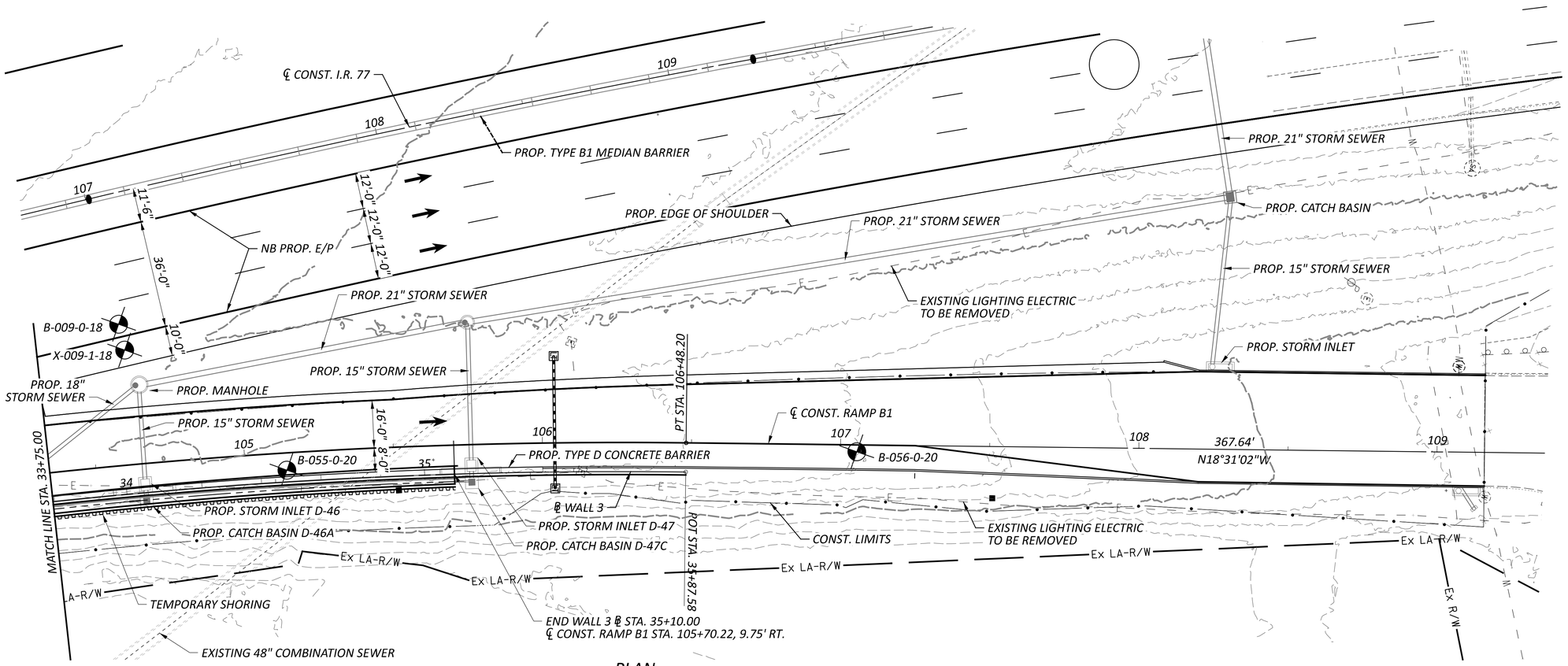
DESIGNER
JCP

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 1 | TOTAL 14

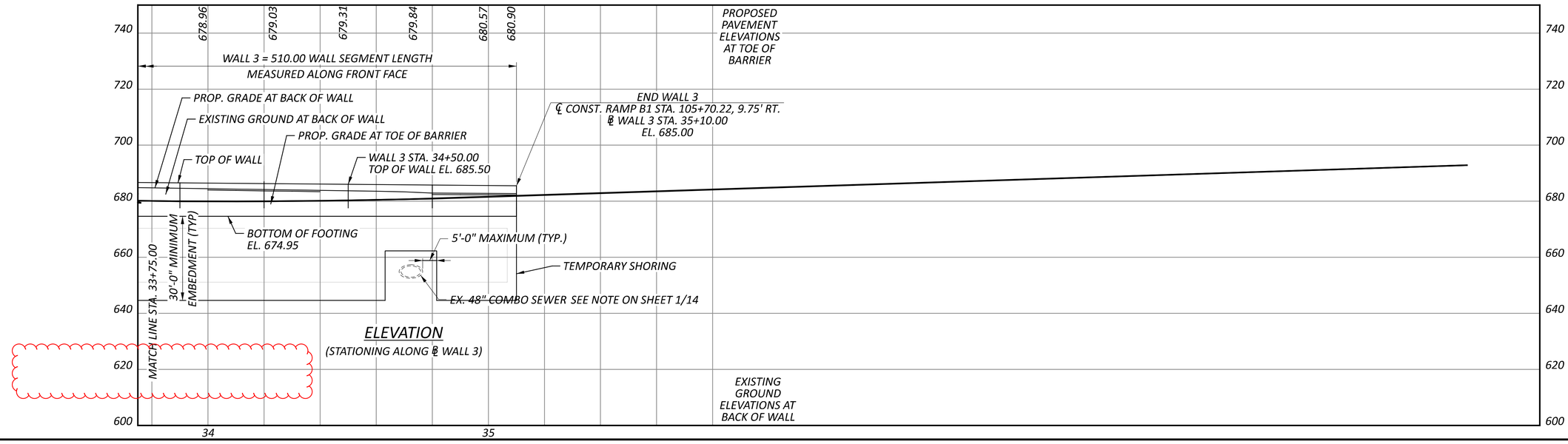
SHEET P.919 | TOTAL P.1274



PLAN

LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION



ELEVATION

(STATIONING ALONG ℄ WALL 3)

SITE PLAN 2 OF 2
RETAINING WALL 3

CUY-77-11.41 - PART 1

DESIGN AGENCY
TRC

DESIGNER
JCP

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 2 | TOTAL 14

SHEET P.920 | TOTAL P.1274

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO THE 10TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI

EPOXY COATED REINFORCING STEEL - MIN. YIELD STRENGTH 60 KSI

FOUNDATION BEARING RESISTANCE

THE RETAINING WALL FOOTING BETWEEN STA. 30+00 AND STA. 32+20, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LOAD PRESSURE OF 1.51 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 1.99 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 5.40 KIPS PER SQUARE FOOT.

THE RETAINING WALL FOOTING BETWEEN STA. 32+20 AND STA. 34+00, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LOAD PRESSURE OF 1.70 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 2.19 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 7.10 KIPS PER SQUARE FOOT.

THE RETAINING WALL FOOTING BETWEEN STA. 34+00 AND STA. 35+10, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LOAD PRESSURE OF 1.60 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 2.06 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 6.40 KIPS PER SQUARE FOOT.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

ITEM 503 - COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN

THE TEMPORARY CANTILEVER SHEET PILE WALL SHALL HAVE A MINIMUM SECTION MODULUS OF 60 IN^3/FT AND A YIELD STRENGTH OF 50 KSI.

THE SELECTED SHEET PILE SHALL HAVE A MINIMUM MOMENT OF INERTIA OF 490 IN^4/FT TO LIMIT THE DEFLECTION TO LESS THAN 1 INCH OR 1 PERCENT OF THE HEIGHT, WHICHEVER IS LESS.

TEMPORARY SHEETING SHALL BE INSTALLED PRIOR TO EXCAVATION FOR WALL FOUNDATION AND SHALL REMAIN IN PLACE UNTIL WALL CONSTRUCTION AND BACKFILL IS COMPLETE WITHIN THE AREA BEING TEMPORARY SUPPORTED BY THE SHEET PILES.

ALL MATERIALS, EQUIPMENT, LABOR AND INCIDENTALS NEEDED TO INSTALL AND REMOVE THE TEMPORARY SHORING SHALL BE INCLUDED FOR PAYMENT IN THE LUMP SUM PRICE FOR ITEM 503 - COFFERDAMS AND EXCAVATION, AS PER PLAN.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING BUILDING, PARKING AREA, AND ASSOCIATED FACILITIES LOCATED UPSLOPE OF THE PROPOSED WALL AND TEMPORARY SHEET PILE WALL.

THE CONTRACTOR SHALL PERFORM VIBRATION SURVEY AND MONITORING AS SPECIFIED IN ITEM 530-SPECIAL - STRUCTURAL SURVEY AND MONITORING OF VIBRATION.

THE DESIGN SHOWN ON THE PLANS FOR TEMPORARY SUPPORT OF EXCAVATION IS ONE REPRESENTATIVE DESIGN THAT MAY BE USED TO CONSTRUCT THE PROJECT. THE CONTRACTOR MAY CONSTRUCT THE DESIGN SHOWN ON THE PLANS OR PREPARE AN ALTERNATE DESIGN TO SUPPORT THE SIDES OF EXCAVATIONS. IF CONSTRUCTING AN ALTERNATE DESIGN FOR TEMPORARY SUPPORT OF EXCAVATION, PREPARE AND PROVIDE PLANS IN ACCORDANCE WITH C&MS 501.05. THE DEPARTMENT WILL PAY FOR THE TEMPORARY SUPPORT FOR EXCAVATION AT THE CONTRACT LUMP SUM PRICE FOR COFFERDAMS AND EXCAVATION BRACING. THE DEPARTMENT WILL NOT MAKE ADDITIONAL PAYMENT FOR PROVIDING AN ALTERNATE DESIGN.

ITEM 530 SPECIAL - STRUCTURAL SURVEY AND MONITORING OF VIBRATION

MONITOR GROUND VIBRATIONS CAUSED BY PILE DRIVING TO MINIMIZE THE POTENTIAL FOR IMPACTS OR DAMAGE TO THE EXISTING BUILDINGS, PARKING AREAS, AND ASSOCIATED FACILITIES LOCATED UPSLOPE OF THE PROPOSED RETAINING WALL AND SHORING.

RETAIN AN EXPERIENCED VIBRATION SPECIALIST TO ESTABLISH THE ACCEPTABLE VIBRATION LIMITS AND TO PERFORM THE VIBRATION MONITORING. USE A VIBRATION SPECIALIST THAT IS AN EXPERT IN THE INTERPRETATION OF VIBRATION DATA, AND WHO MEETS ONE OF THE FOLLOWING CRITERIA: 1) IS A REGISTERED ENGINEER WITH AT LEAST TWO YEARS OF PROVEN EXPERIENCE IN MONITORING VIBRATIONS ON SIMILAR CONSTRUCTION PROJECTS, OR 2) HAS AT LEAST FIVE YEARS OF PROVEN EXPERIENCE IN MONITORING VIBRATIONS ON SIMILAR CONSTRUCTION PROJECTS. DO NOT USE A VIBRATION SPECIALIST THAT IS AN EMPLOYEE OF THE CONTRACTOR.

SUBMIT A RESUME OF THE CREDENTIALS OF THE PROPOSED VIBRATION SPECIALIST AT OR BEFORE THE PRECONSTRUCTION MEETING. INCLUDE IN THE RESUME A LIST OF CONSTRUCTION PROJECTS ON WHICH THE VIBRATION SPECIALIST WAS RESPONSIBLY IN CHARGE OF MONITORING THE VIBRATIONS. LIST A DESCRIPTION OF THE PROJECTS, WITH DETAILS OF THE VIBRATION INTERPRETATIONS MADE ON THE PROJECT. LIST THE NAMES AND TELEPHONE NUMBERS OF PROJECT OWNERS WITH SUFFICIENT KNOWLEDGE OF THE PROJECTS TO VERIFY THE SUBMITTED INFORMATION. OBTAIN THE ENGINEER'S ACCEPTANCE OF THE VIBRATION SPECIALIST BEFORE BEGINNING ANY PILE DRIVING WORK. ALLOW 30 DAYS FOR THE REVIEW OF THIS DOCUMENTATION.

USE SEISMOGRAPHS CAPABLE OF CONTINUOUSLY RECORDING THE PEAK PARTICLE VELOCITY FOR THREE MUTUALLY PERPENDICULAR COMPONENTS OF VIBRATION, AND OF PROVIDING A PERMANENT RECORD OF THE ENTIRE VIBRATION EVENT. USE A SUFFICIENT NUMBER OF SEISMOGRAPHS TO PROVIDE REDUNDANCY IN CASE ONE DEVICE SHOULD FAIL. SUBMIT A PLAN OF THE PROPOSED SEISMOGRAPH LOCATIONS TO THE ENGINEER FOR REVIEW.

THE VIBRATION SPECIALIST SHALL PERFORM THE FOLLOWING:
1. MEASURE THE AMBIENT GROUND VIBRATIONS NEAR EXISTING STRUCTURES BEFORE PILE DRIVING BEGINS.
2. ESTABLISH VIBRATION LIMITS TO MINIMIZE POTENTIAL DAMAGE TO EXISTING STRUCTURES AND EXPLAIN WHY THEY ARE BEING USED TO THE ENGINEER BEFORE DRIVING PILES NEAR EXISTING STRUCTURES.
3. MONITOR GROUND VIBRATIONS DURING PILE DRIVING.
4. IMMEDIATELY INFORM THE CONTRACTOR AND ENGINEER IF THE VIBRATION LIMITS ARE REACHED OR EXCEEDED.
5. FURNISH THE DATA RECORDED AND INCLUDE THE FOLLOWING:
A. IDENTIFICATION OF SEISMOGRAPH.
B. DISTANCE AND DIRECTION OF SEISMOGRAPH FROM PILE DRIVING.
C. START TIME AND DURATION OF PILE DRIVING.
D. LIST OF PILES DRIVEN DURING EACH MONITORING INTERVAL.

IMMEDIATELY SUSPEND ALL PILE DRIVING IF THE VIBRATION LIMITS ARE REACHED OR EXCEEDED. EVALUATE ALTERNATIVE CONSTRUCTION PROCEDURES, SUCH AS PREBORED HOLES, TO REDUCE THE VIBRATIONS. SUBMIT THREE COPIES OF THE FINAL REPORT WHICH CONTAINS ALL MEASUREMENTS, INTERPRETATIONS, AND RECOMMENDATIONS TO THE ENGINEER. THE DEPARTMENT WILL PAY FOR THIS ITEM AT THE CONTRACT LUMP SUM PRICE FOR ITEM 530 SPECIAL – STRUCTURAL SURVEY AND MONITORING OF VIBRATION. THE DEPARTMENT WILL PAY THE FINAL TWENTY PERCENT AFTER THE ENGINEER RECEIVES THE FINAL REPORT. THE DEPARTMENT WILL PAY ACCORDING TO C&MS 109.05 FOR ALTERNATIVE CONSTRUCTION PROCEDURES THAT THE ENGINEER DETERMINES ARE NECESSARY TO REDUCE VIBRATIONS.

ESTIMATED QUANTITIES (WALL 3)

ITEM	EXTENSION	TOTAL PART 01/IMS	UNIT	DESCRIPTION	SEE SHEET
203	20000	598	CY	EMBANKMENT	
503	11101	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN	
503	21100	1565	CY	UNCLASSIFIED EXCAVATION	
509	10000	50453	LB	EPOXY COATED STEEL REINFORCEMENT	
511	46012	206	CY	CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING	
511	46512	520	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING	
512	10101	227	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	3
512	33000	40	SY	TYPE 2 WATERPROOFING	
516	13600	1881	SF	1" PREFORMED EXPANSION JOINT FILLER	
518	20000	369	SY	PREFABRICATED GEOCOMPOSITE DRAIN	
518	21200	75	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
518	40000	505	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
518	40010	9	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
530	14000	1	LS	SPECIAL - STRUCTURAL SURVEY AND MONITORING OF VIBRATION	

ABBREVIATIONS:

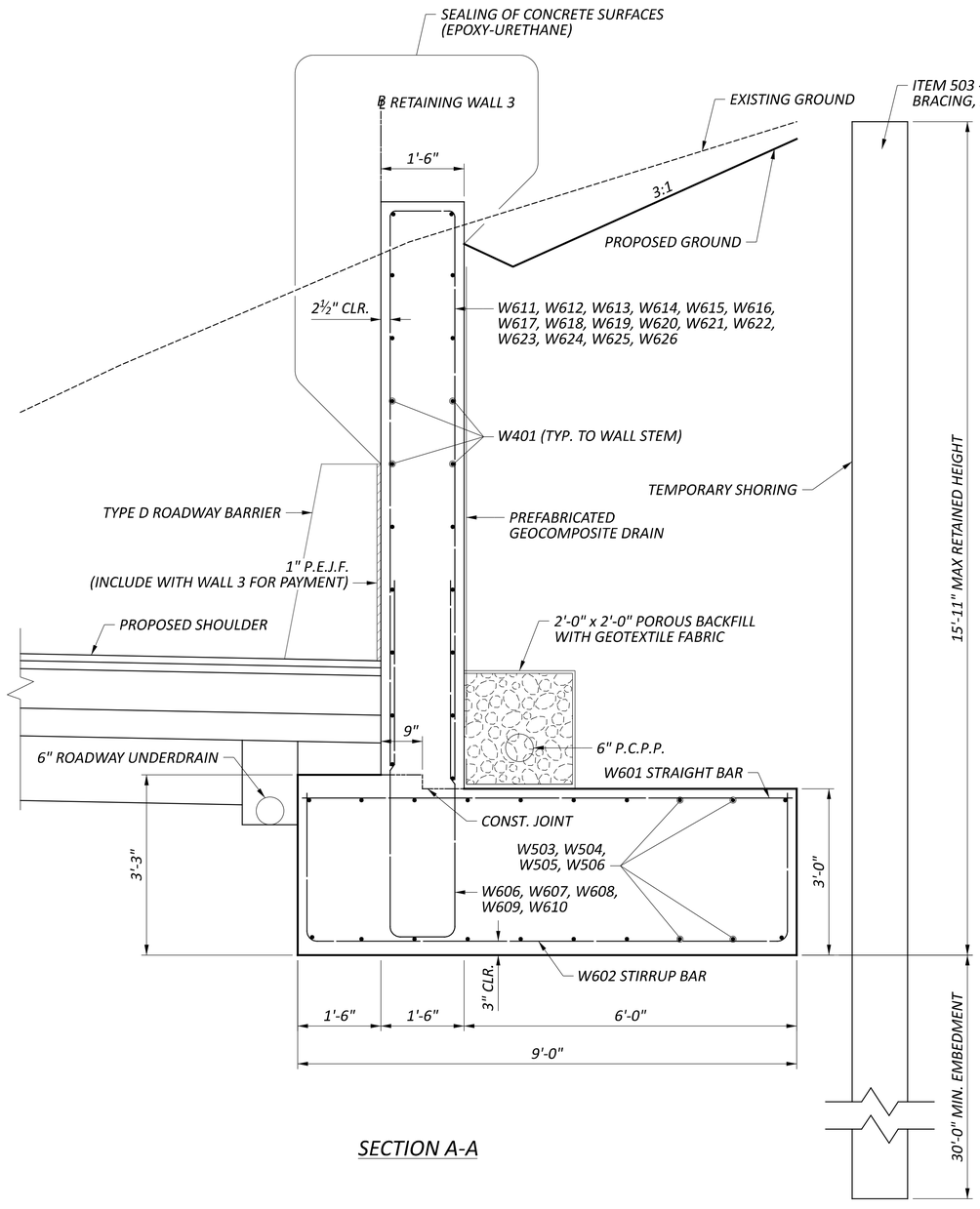
ABUT. - ABUTMENT
APPR. - APPROACH
B - BOTTOM
\ - BASELINE
B.F. - BACK FACE
BM - BENCHMARK
BOT. OR BTM. - BOTTOM
| - CENTERLINE
C/C - CENTER TO CENTER
C.I.P. - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEAR
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONC. - CONCRETE
CONST. - CONSTRUCTION
DIA. - DIAMETER
DIM. - DIMENSION
DWG. - DRAWING
E.F. - EACH FACE
EL. OR ELEV. - ELEVATION
EQ. - EQUAL
EST. - ESTIMATED
EX. - EXISTING
F/F - FACE TO FACE
F.F. - FRONT FACE
FT. - FOOT OR FEET
FTG. - FOOTING
FWD. - FORWARD
IN. - INCH
JT. - JOINT
LT. - LEFT
MAX. - MAXIMUM
MIN. - MINIMUM
MISC. - MISCELLANEOUS
MSE - MECHANICALLY STABILIZED EARTH
N - NORTH
NB - NORTHBOUND
NO. - NUMBER
N.P.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE
OHWM - ORDINARY HIGH WATER MARK
O/O - OUT TO OUT
P.C.P.P. - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER
PROP. - PROPOSED
PSF - POUNDS PER SQUARE FOOT
S - SOUTH
SB - SOUTHBOUND
SER. - SERIES
SHLDR - SHOULDER
SPA. - SPACE OR SPACES
STA. - STATION
STD. - STANDARD
STR - STRAIGHT
T - TOP
T&B - TOP & BOTTOM
TBR - TO BE REMOVED
TEMP. - TEMPORARY
TYP. - TYPICAL
U.N.O. - UNLESS NOTED OTHERWISE
VAR. - VARIES
VERT. - VERTICAL

GENERAL NOTES AND QUANTITIES RETAINING WALL 3

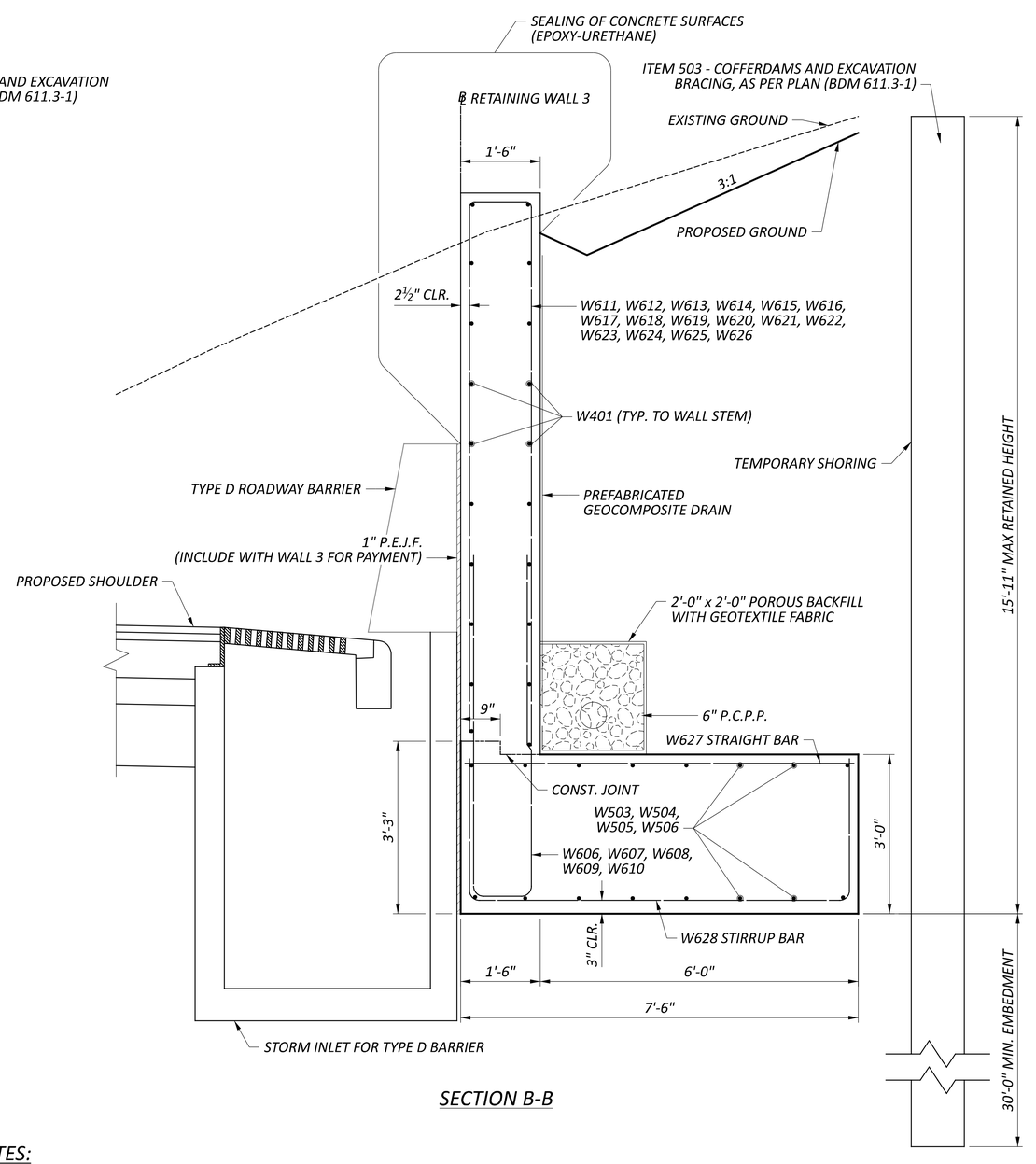
DESIGN AGENCY: TRC
DESIGNER: JCP
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 3 TOTAL: 14
SHEET: P.921 TOTAL: P.1274

CUY-77-11.41 - PART 1

MODEL: General Notes PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 11:06:57 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: BCSmith@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL003\Sheets\105743_WALL003_WN001.dgn



SECTION A-A



SECTION B-B

NOTES:

1. FOR WALL ELEVATIONS, SEE SHEETS 4/14 THRU 12/14.
2. FOR REINFORCING STEEL LIST, SEE SHEET 14/14.
3. SEE DRAINAGE PLANS FOR STORM INLET DETAILS.
4. PREFABRICATED GEOCOMPOSITE DRAIN SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BEHIND THE WALL STEM.
5. FOR ITEM 503 - COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN PROPERTIES SEE GENERAL NOTES ON SHEET 3/14.

TYPICAL SECTIONS
RETAINING WALL 3

DESIGN AGENCY
TRC

DESIGNER
JCP

REVIEWER
CJW 11/17/25

PROJECT ID
105743

SUBSET 13 | TOTAL 14

SHEET P.931 | TOTAL P.1274

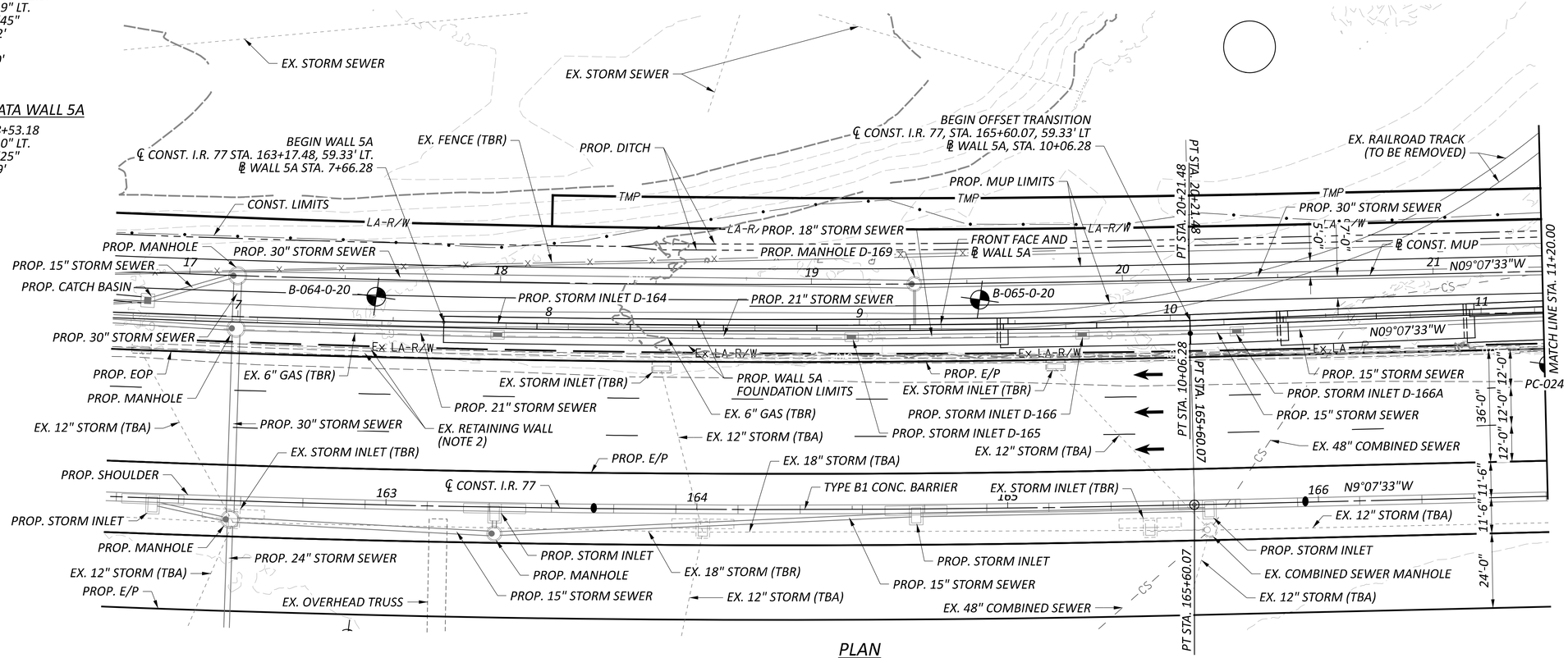
CUY-77-11.41 - PART 1

CURVE DATA I.R.-77

P.I. = STA. 159+82.97
Δ = 11°55'19" LT.
Dc = 01°01'45"
R = 5567.12'
T = 581.30'
L = 1158.40'
E = 30.27'

CURVE DATA WALL 5A

P.I. = STA. 8+53.18
Δ = 03°11'10" LT.
Dc = 01°02'25"
R = 5507.79'
T = 153.18'
L = 306.28'
E = 2.13'



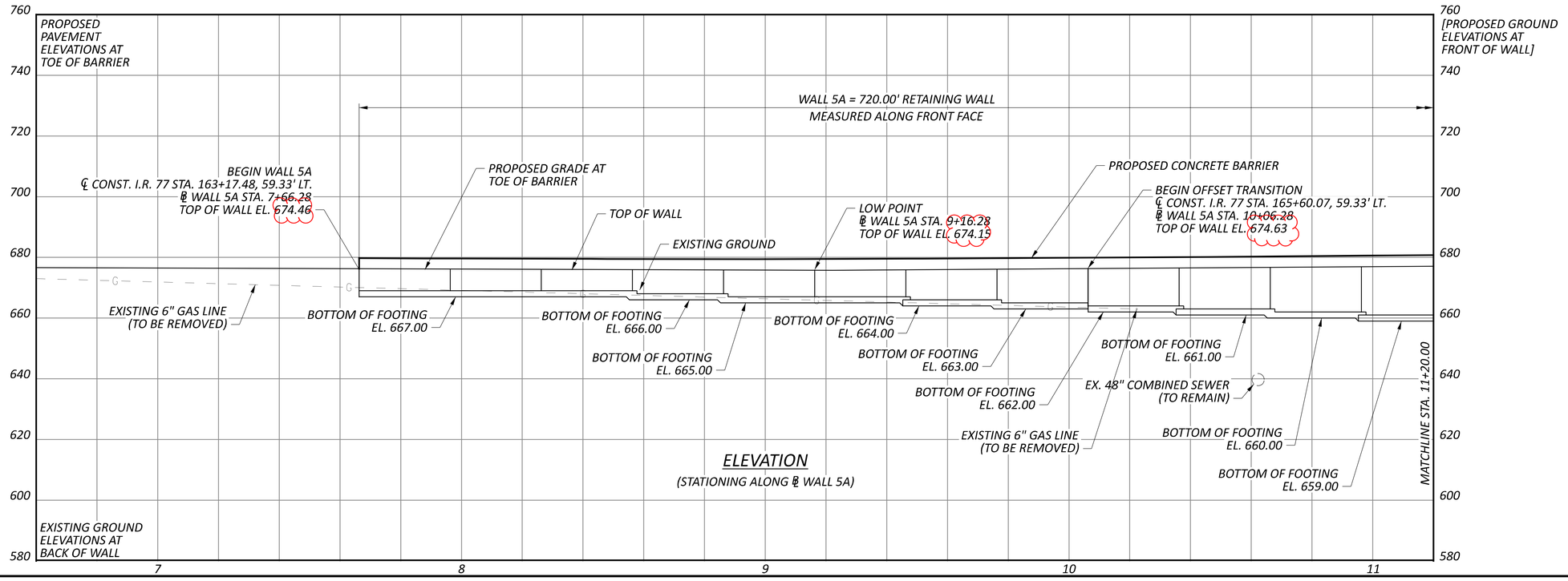
PLAN

LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION

NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. FOR REMOVAL LIMITS OF EXISTING WALL, SEE SHEETS 5/23 AND 6/23.
3. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A AND 1B.

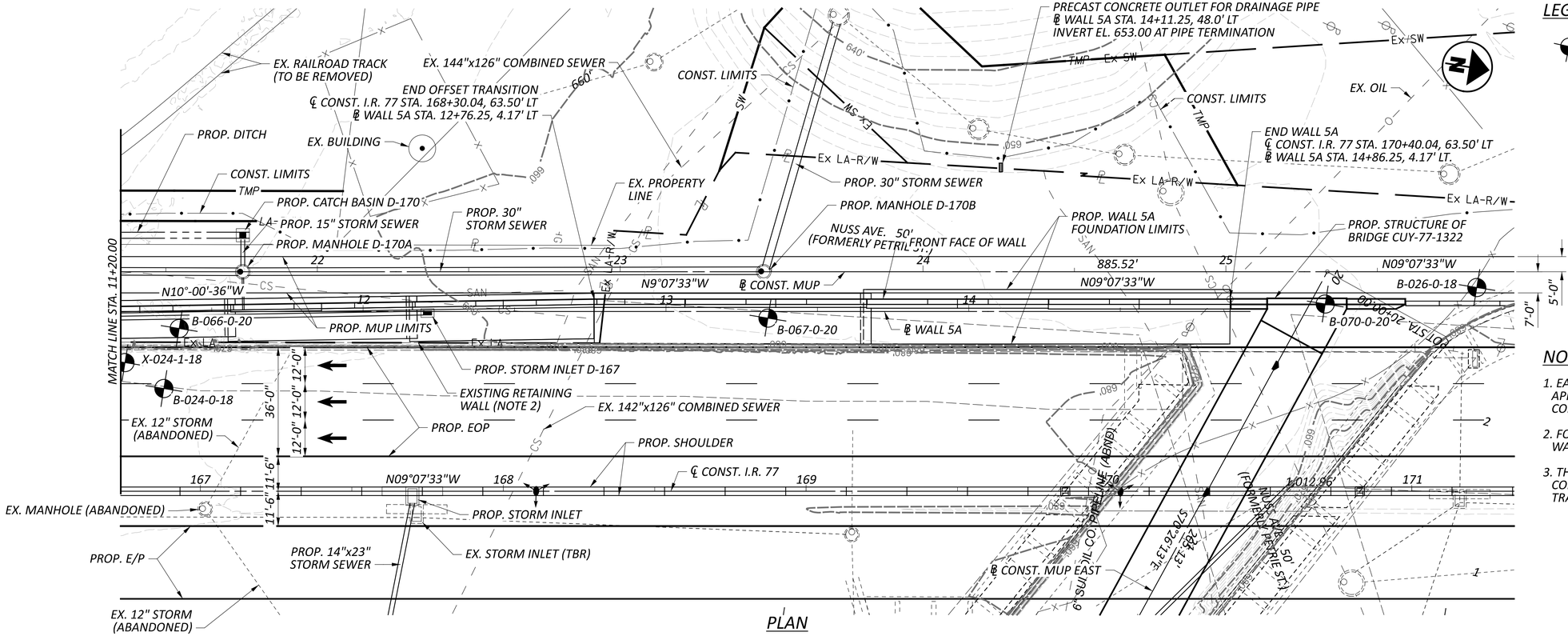


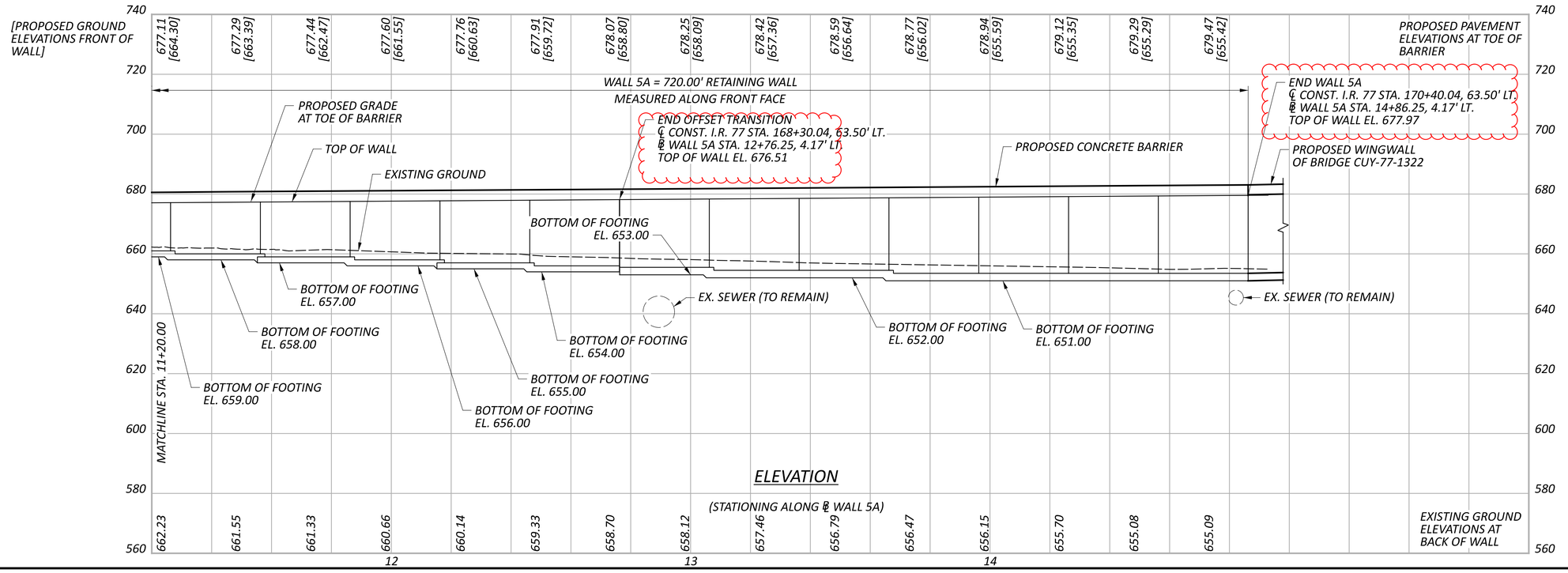
ELEVATION
(STATIONING ALONG ℄ WALL 5A)

CUY-77-11.41 - PART 1

SITE PLAN 1 OF 2
RETAINING WALL 5A

DESIGN AGENCY
TRC
DESIGNER
CEJ
REVIEWER
CJW 11/17/25
PROJECT ID
105743
SUBSET 1 | TOTAL 23
SHEET P.943 | TOTAL P.1274





ELEVATION

(STATIONING ALONG ℄ WALL 5A)

LEGEND:

- SOIL BORING OR PAVEMENT CORING LOCATION

NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. FOR REMOVAL LIMITS OF EXISTING WALL, SEE SHEETS 5/23 AND 6/23.
3. THE RETAINING WALL SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A AND 1B.

SITE PLAN 2 OF 2
RETAINING WALL 5A

CUY-77-11.41 - PART 1

MODEL: CLP_2 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 10:48:31 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: BCSmith@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05A\Sheets\105743_WALL05A_WP001.dgn

DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	2
TOTAL	23
SHEET	P.944
TOTAL	P.1274

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD DRAWING:

DM-1.1	REVISED 7/17/20
SBR-1-20	REVISED 7/19/24
VPF-1-24	REVISED 1/17/25

OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 10TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN PARAMETERS

LIVE LOAD SURCHARGE = 250 PSF (2' DEPTH OF SOIL OVERBURDEN)

DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (CONCRETE STEM AND FOOTING)

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI (CONCRETE BARRIER ON WALL STEM)

EPOXY COATED REINFORCING STEEL - MIN. YIELD STRENGTH 60 KSI

FOUNDATION BEARING RESISTANCE

THE RETAINING WALL FOOTING BETWEEN STA. 7+66.28 AND STA. 8+60.00, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LOAD PRESSURE OF 1.49 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 2.02 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 4.50 KIPS PER SQUARE FOOT.

THE RETAINING WALL FOOTING BETWEEN STA. 8+60.00 AND STA. 10+80.00, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LOAD PRESSURE OF 2.54 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 3.51 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 4.80 KIPS PER SQUARE FOOT.

THE RETAINING WALL FOOTING BETWEEN STA. 10+80.00 AND STA. 12+60.00, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LOAD PRESSURE OF 3.56 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 4.93 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 5.50 KIPS PER SQUARE FOOT.

THE RETAINING WALL FOOTING BETWEEN STA. 12+60.00 AND STA. 14+86.25, AS DESIGNED, PRODUCES A MAXIMUM SERVICE LOAD PRESSURE OF 3.78 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 5.21 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 8.80 KIPS PER SQUARE FOOT.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE CAST-IN-PLACE CONCRETE WALL FACING AS DETAILED IN THE PLANS WITH A EPOXY-URETHANE SEALER AS PER C&MS 512. THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

ITEM 511 - CLASS QC2 CONCRETE, MISC.: WITH QC/QA, BARRIER ON WALL STEM

VERTICAL SAWCUTS SHALL BE PERFORMED IN THE CONCRETE BARRIER AT ALL CONTRACTION JOINTS IN THE WALL STEM. SAWCUTS SHALL CONFORM TO THE DETAILS AND SPECIFICATIONS FOR CONCRETE RAILING DEFLECTION JOINTS IN STANDARD DRAWING SBR-1-20. LABOR, EQUIPMENT AND MATERIALS NEEDED TO COMPLETE THIS WORK WILL BE CONSIDERED INCIDENTAL TO PLACEMENT OF THE BARRIER CONCRETE.

DRAINAGE PIPE OUTLETS:

VERTICAL PRECAST CONCRETE OUTLET WITH TYPE 1 TIED CONCRETE BLOCK MAT SHALL BE INSTALLED AT EACH LOCATION OF DRAIN PIPE TERMINATION SPECIFIED IN THE PLANS. THE OUTLET INSTALLATION AND MATERIALS FURNISHED SHALL CONFORM TO STANDARD CONSTRUCTION DRAWING DM-1.1 AND THE REQUIREMENTS OF CMS 611.

ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

C|L - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

GENERAL NOTES
RETAINING WALL 5A

DESIGN AGENCY
TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET / TOTAL	3 / 23
SHEET / TOTAL	P.945 / P.1274

CUY-77-11.41 - PART 1

ESTIMATED QUANTITIES (WALL 5A)

ITEM	EXTENSION	TOTAL PART 01/IMS	UNIT	DESCRIPTION	SEE SHEET
202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	5, 6
203	35120	4433	CY	GRANULAR MATERIAL, TYPE C	
503	21100	1896	CY	UNCLASSIFIED EXCAVATION	
509	10000	178644	LB	EPOXY COATED STEEL REINFORCEMENT	
511	46013	828	CY	CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN	21
511	46512	785	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING	
512	10101	1554	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	
512	33000	125	SY	TYPE 2 WATERPROOFING	3
516	13600	1582	SF	1" PREFORMED EXPANSION JOINT FILLER	
516	13900	67	SF	2" PREFORMED EXPANSION JOINT FILLER	
518	20000	870	SY	PREFABRICATED GEOCOMPOSITE DRAIN	
518	21200	107	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
518	40000	700	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
518	40010	74	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
601	21050	2	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
611	99710	1	EACH	PRECAST REINFORCED CONCRETE OUTLET	

ESTIMATED QUANTITIES
RETAINING WALL 5A

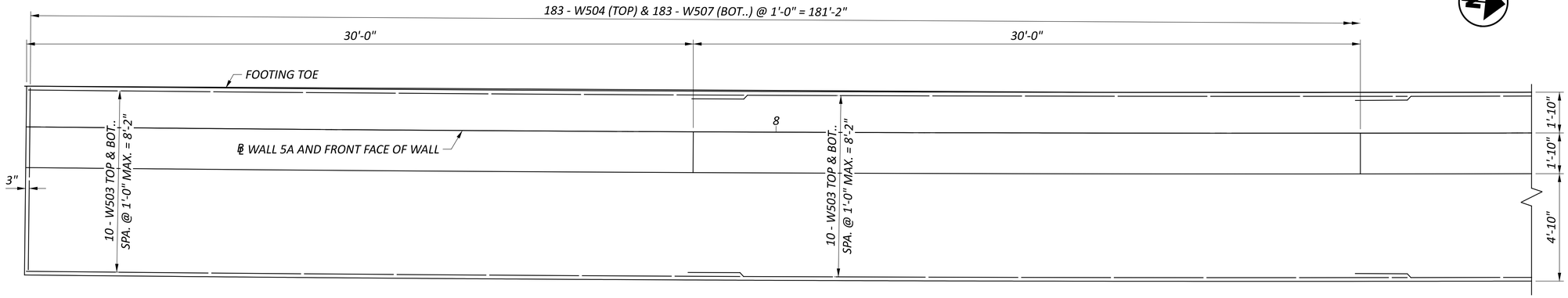
CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 10:38:32 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\S - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\40D-Engineering\Structures\WALL05A\Sheets\105743_WALL05A_WQ001.dgn

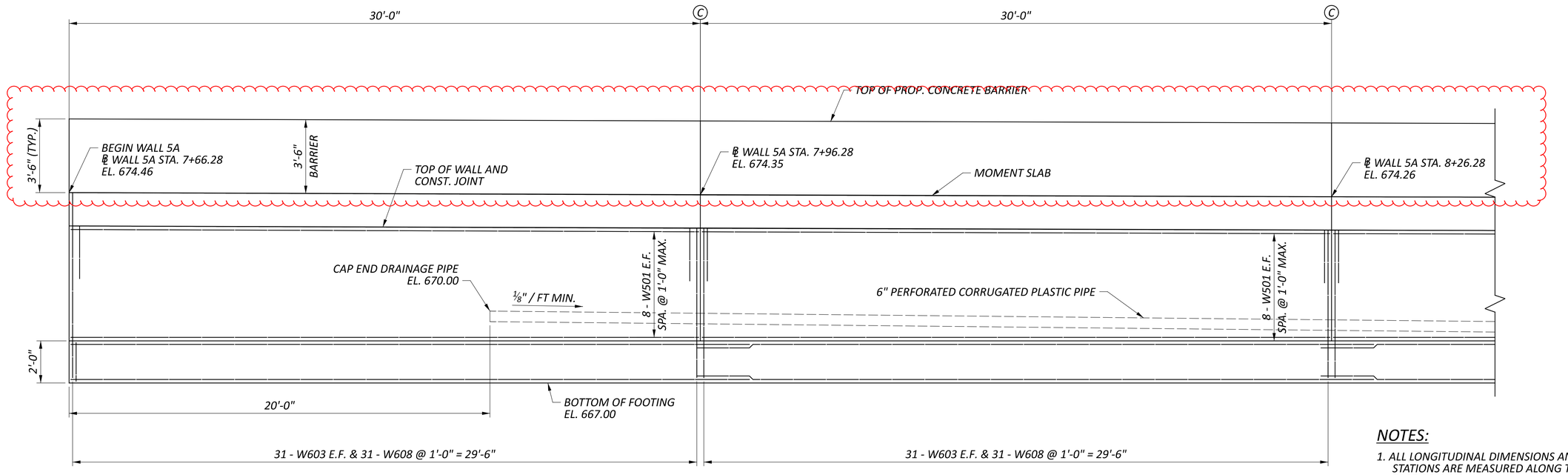
DESIGN AGENCY
TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET / TOTAL	4 / 23
SHEET / TOTAL	P.946 / P.1274

MODEL: up 1-3 PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 9:55:13 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05A\Sheets\105743_WALL05A_WE001.dgn



PARTIAL PLAN



PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

MINIMUM LAP LENGTHS	
NO. 5 BAR	3'-1"
NO. 8 BAR	4'-9"
NO. 9 BAR	5'-10"
NO. 10 BAR	7'-2"

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR TYPICAL SECTIONS, SEE SHEET 22/23.
3. FOR REINFORCING STEEL LIST, SEE SHEET 23/23.
4. FOR FOUNDATION LAYOUT, SEE SHEETS 7/23 AND 8/23.
5. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

WALL PLAN AND ELEVATION
RETAINING WALL 5A

DESIGN AGENCY: TRC

DESIGNER: CEJ

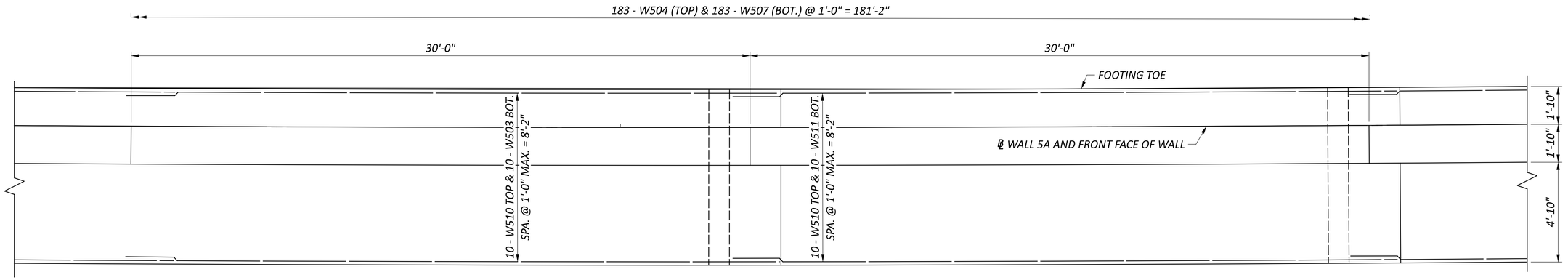
REVIEWER: CJW 11/17/25

PROJECT ID: 105743

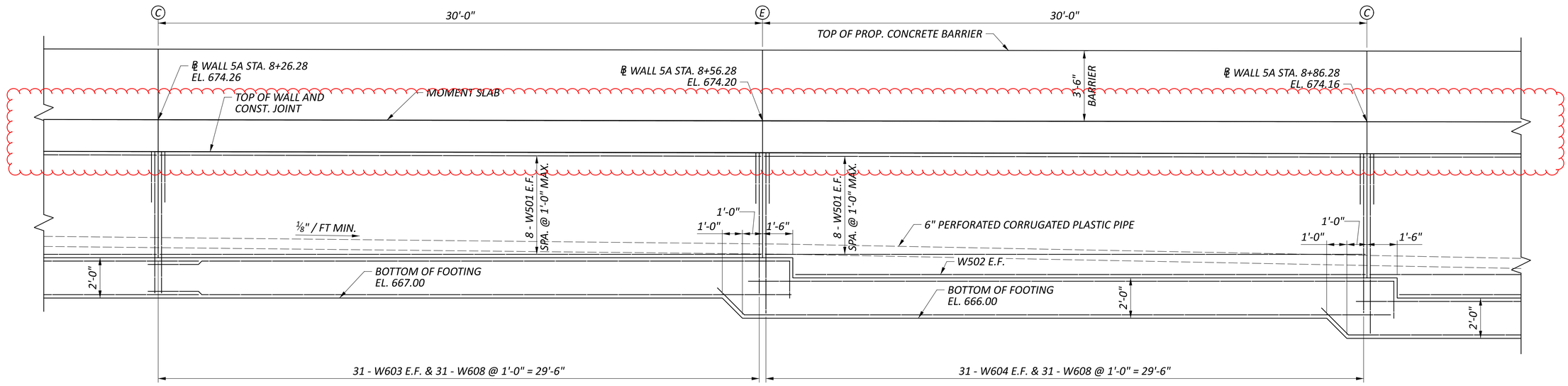
SUBSET: 9 TOTAL: 23

SHEET: P.951 TOTAL: P.1274

MODEL: up 3-4 PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 9:28:13 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\Structures\WALL05A\Sheets\105743_WALL05A_WE001.dgn



PARTIAL PLAN



PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

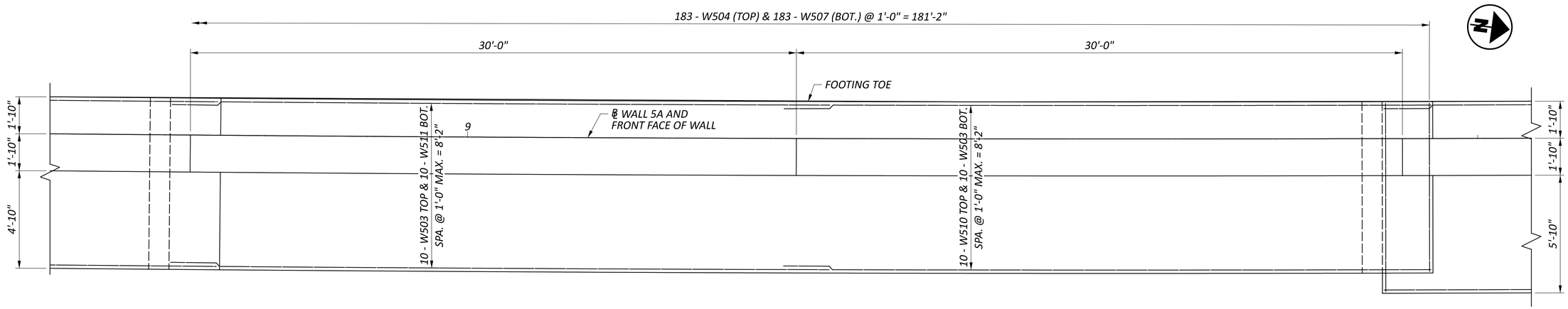
NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

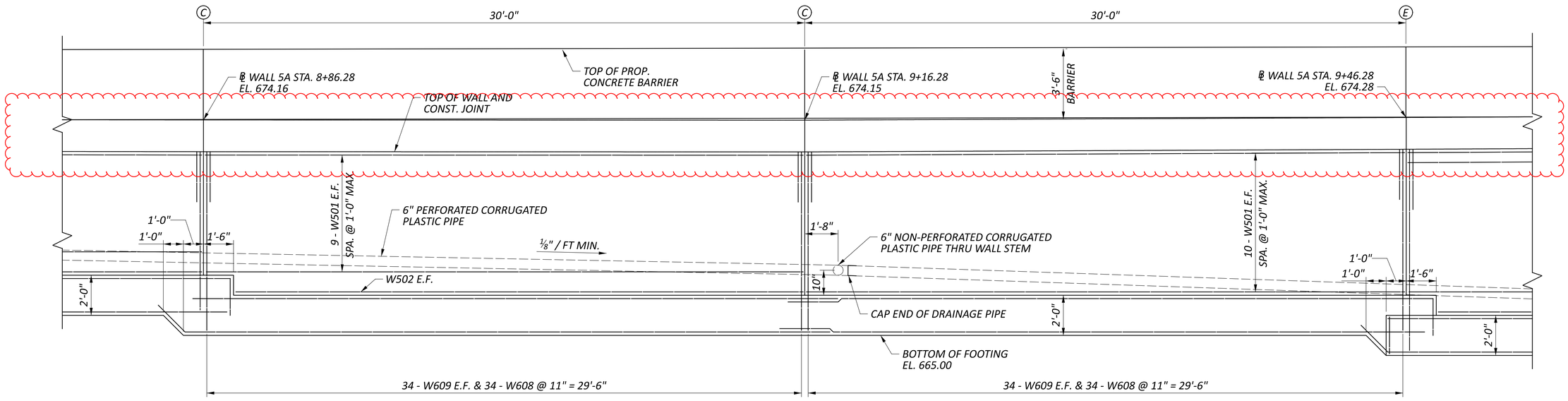
WALL PLAN AND ELEVATION
RETAINING WALL 5A

DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	10
TOTAL	23
SHEET	P.952
TOTAL	P.1274



PARTIAL PLAN



PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

LEGEND:

- Ⓒ - CONTRACTION JOINT
- Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

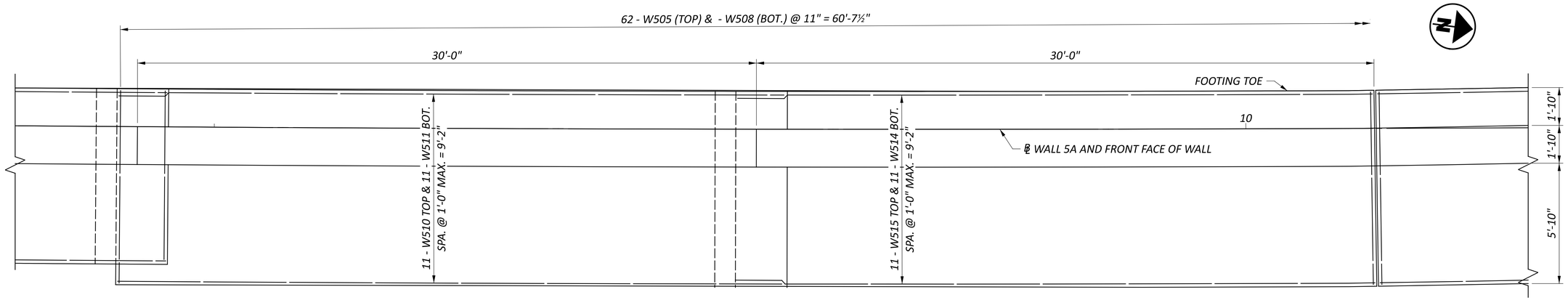
WALL PLAN AND ELEVATION
RETAINING WALL 5A

DESIGN AGENCY: TRC

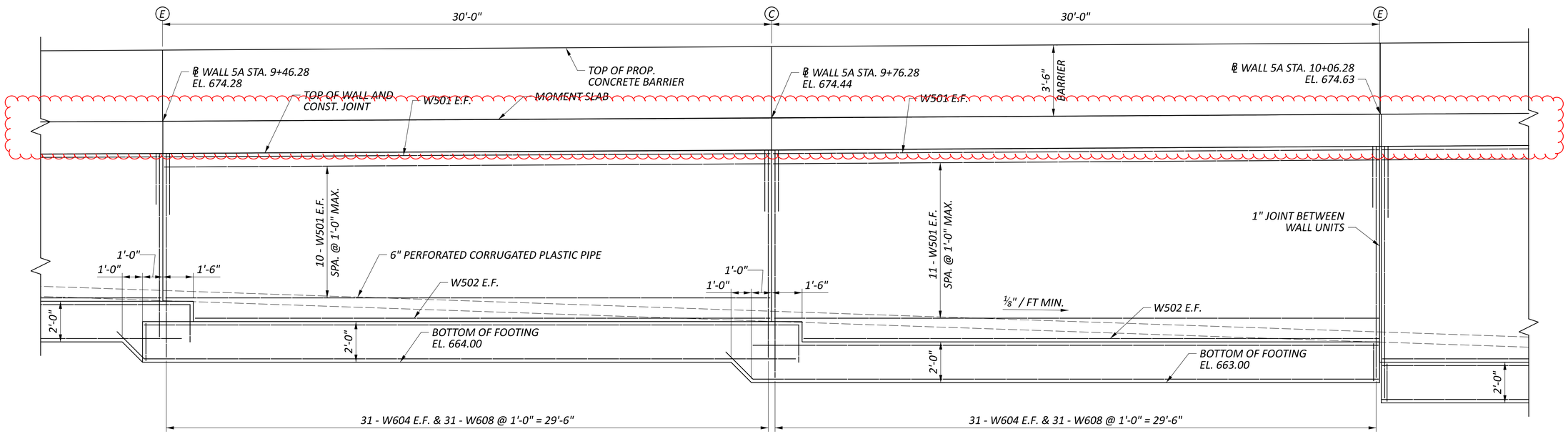
DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET / TOTAL	11 / 23
SHEET / TOTAL	P.953 / P.1274

CUY-77-11.41 - PART 1

MODEL: panels 5-6 PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 12:33:11 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: BCSmith@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\d00-Engineering\Structures\WALL05A\Sheets\105743_WALL05A_WE001.dgn



PARTIAL PLAN



PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

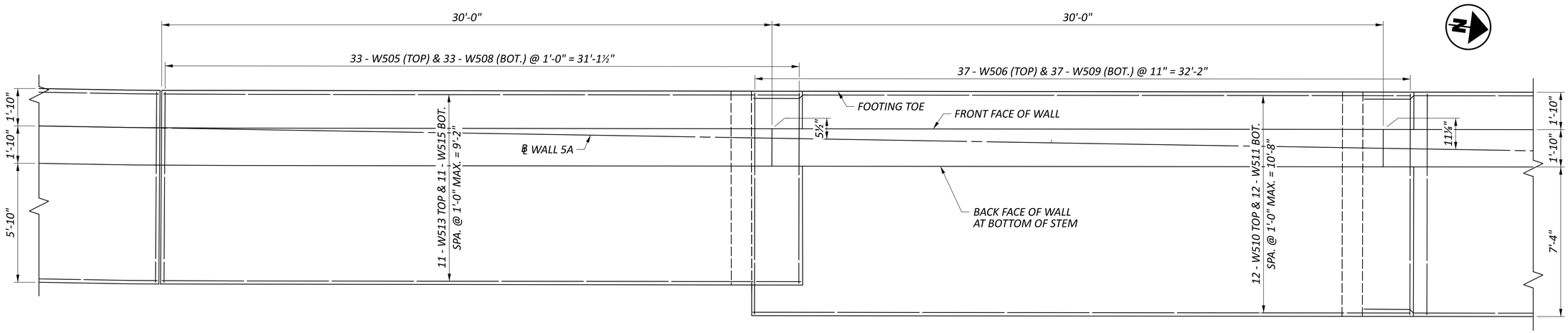
WALL PLAN AND ELEVATION
RETAINING WALL 5A

DESIGN AGENCY: TRC

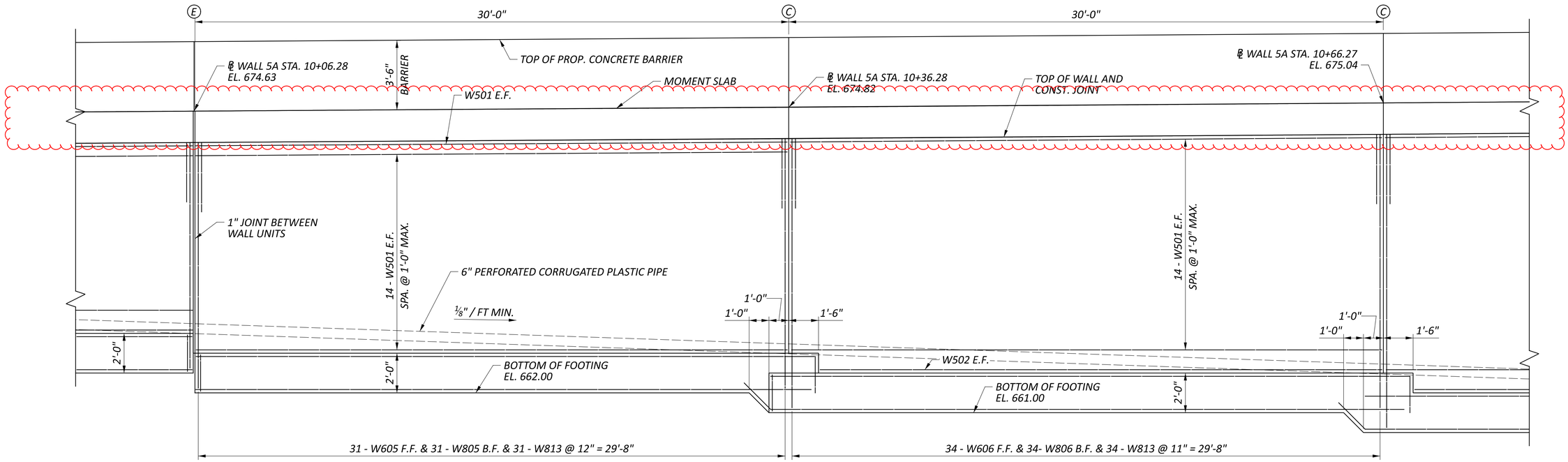
DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	12
TOTAL	23
SHEET	P.954
TOTAL	P.1274

CUY-77-11.41 - PART 1

MODEL: up 7-8 PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 9:40:26 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05A\Sheets\105743_WALL05A_WE001.dgn



PARTIAL PLAN



PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

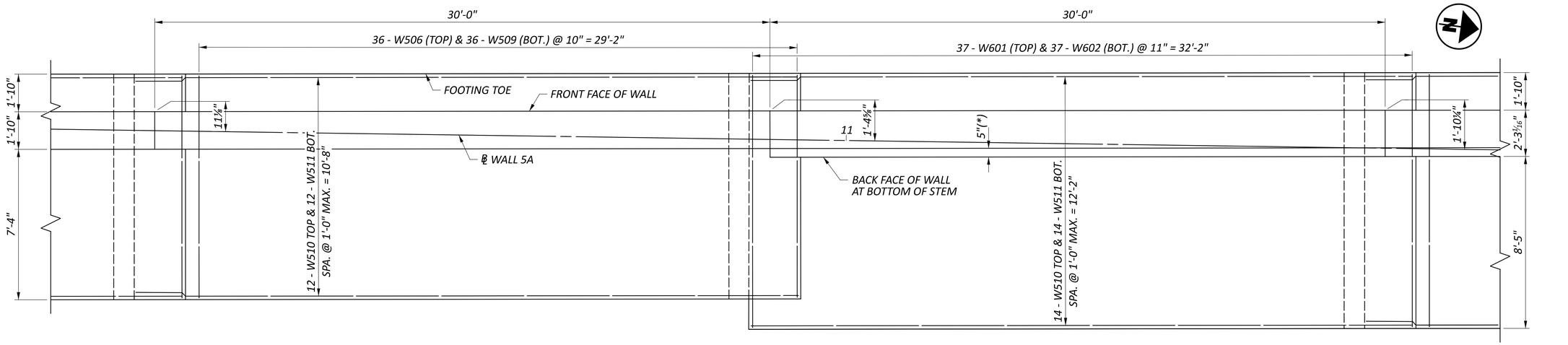
WALL PLAN AND ELEVATION
RETAINING WALL 5A

DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET / TOTAL	13 / 23
SHEET / TOTAL	P.955 / P.1274

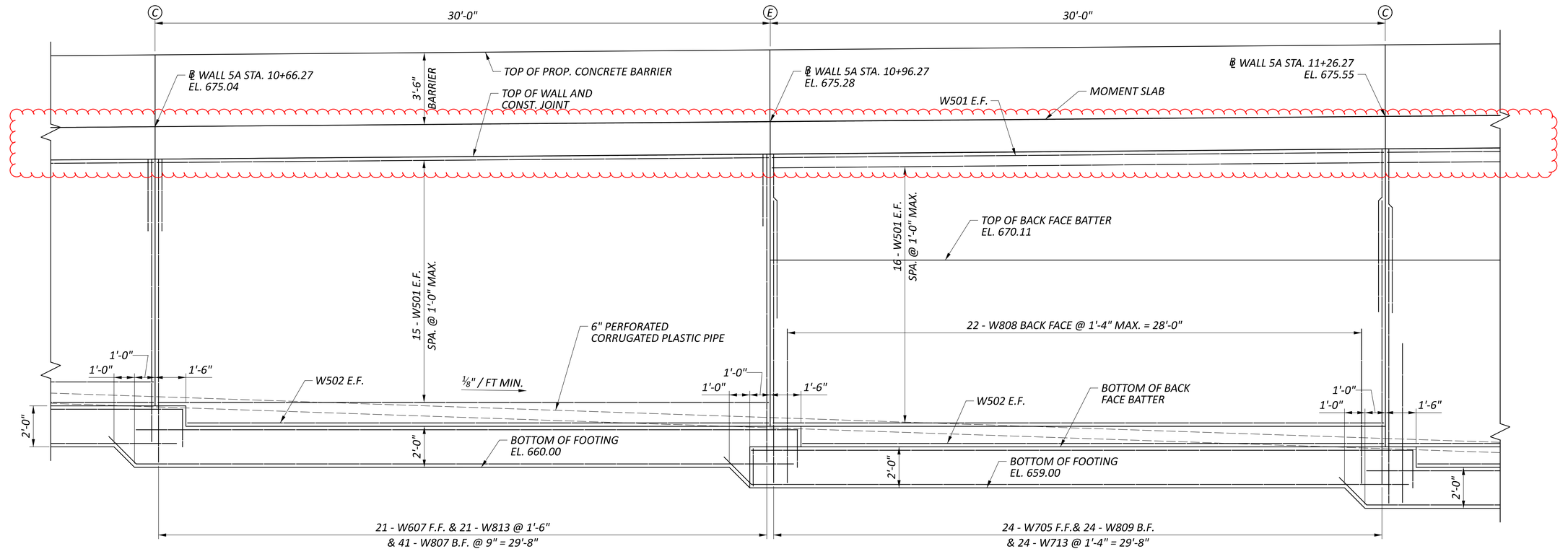
CUY-77-11.41 - PART 1

MODEL: up 9-10 PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 9:43:51 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCtx02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05A\Sheets\105743_WALL05A_WE001.dgn



(*) - BACK FACE BATTER

PARTIAL PLAN



PARTIAL ELEVATION

(VANDAL FENCE NOT SHOWN FOR CLARITY)

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

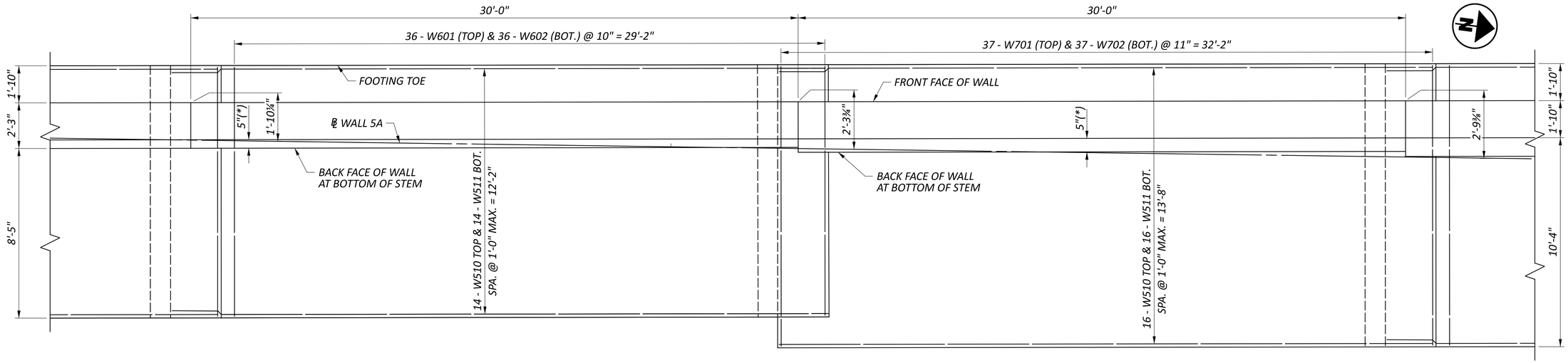
WALL PLAN AND ELEVATION
RETAINING WALL 5A

DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	14
TOTAL	23
SHEET	P.956
TOTAL	P.1274

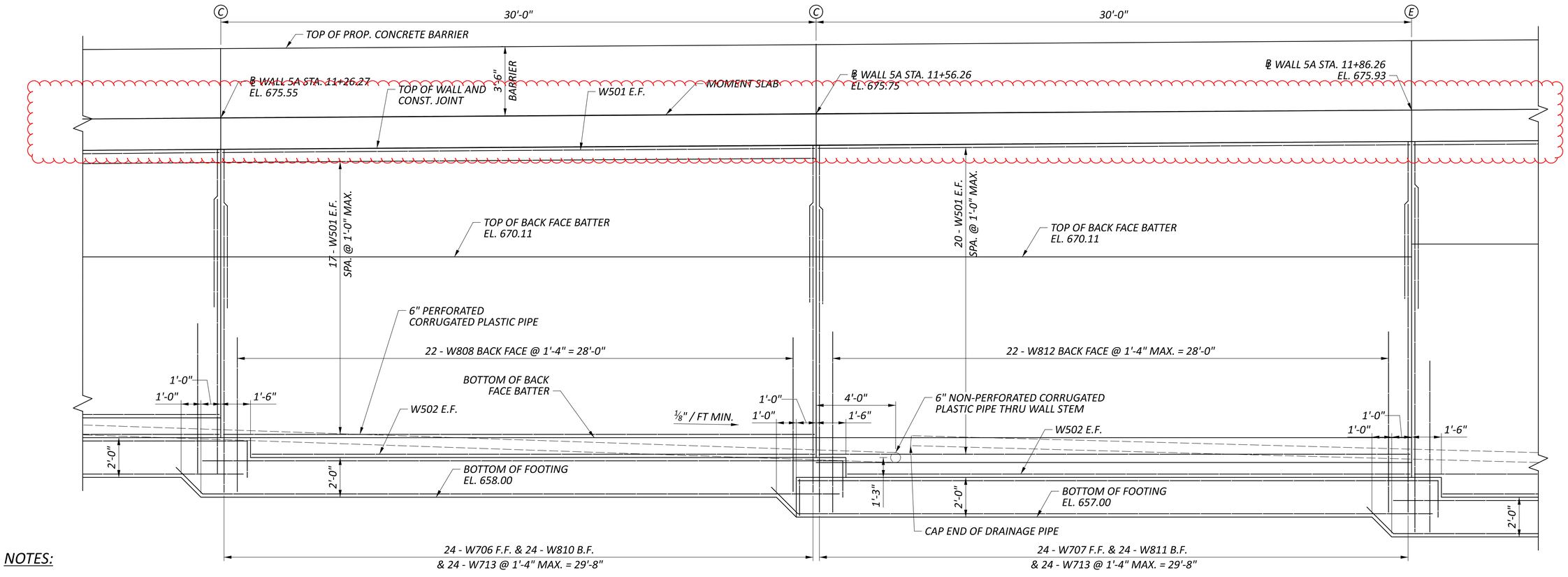
CUY-77-11.41 - PART 1

MODEL: up 11-12 PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 9:48:09 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05A\Sheets\105743_WALL05A_WE001.dgn



PARTIAL PLAN

(*) - BACK FACE BATTER



PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

LEGEND:

Ⓒ - CONTRACTION JOINT

Ⓔ - EXPANSION JOINT

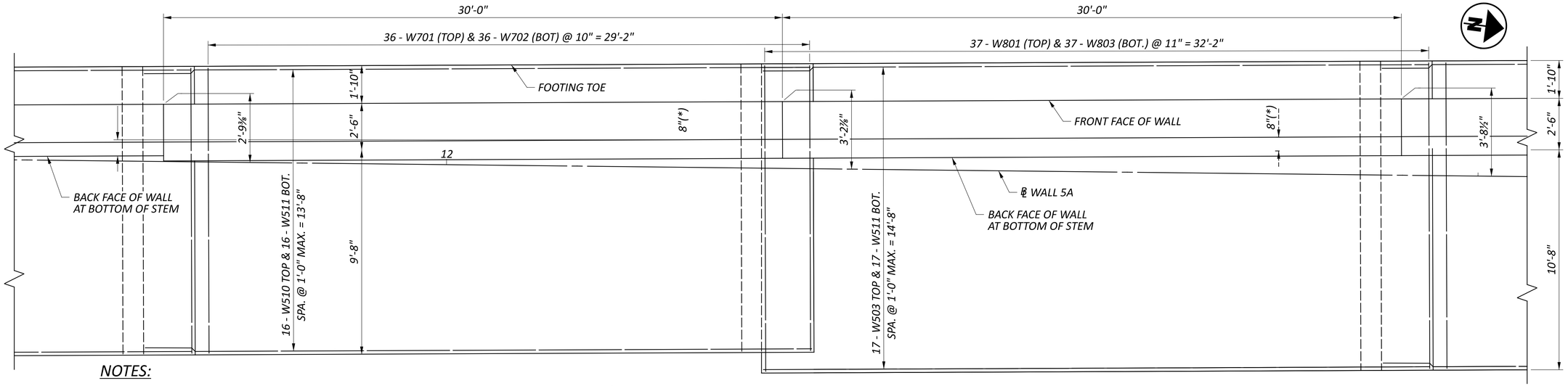
WALL PLAN AND ELEVATION RETAINING WALL 5A

CUY-77-11.41 - PART 1

MODEL: up 13-14 PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 9:50:54 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\40D-Engineering\Structures\WALL05A\Sheets\105743_WALL05A_WE001.dgn

DESIGN AGENCY TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	15
TOTAL	23
SHEET	P.957
TOTAL	P.1274

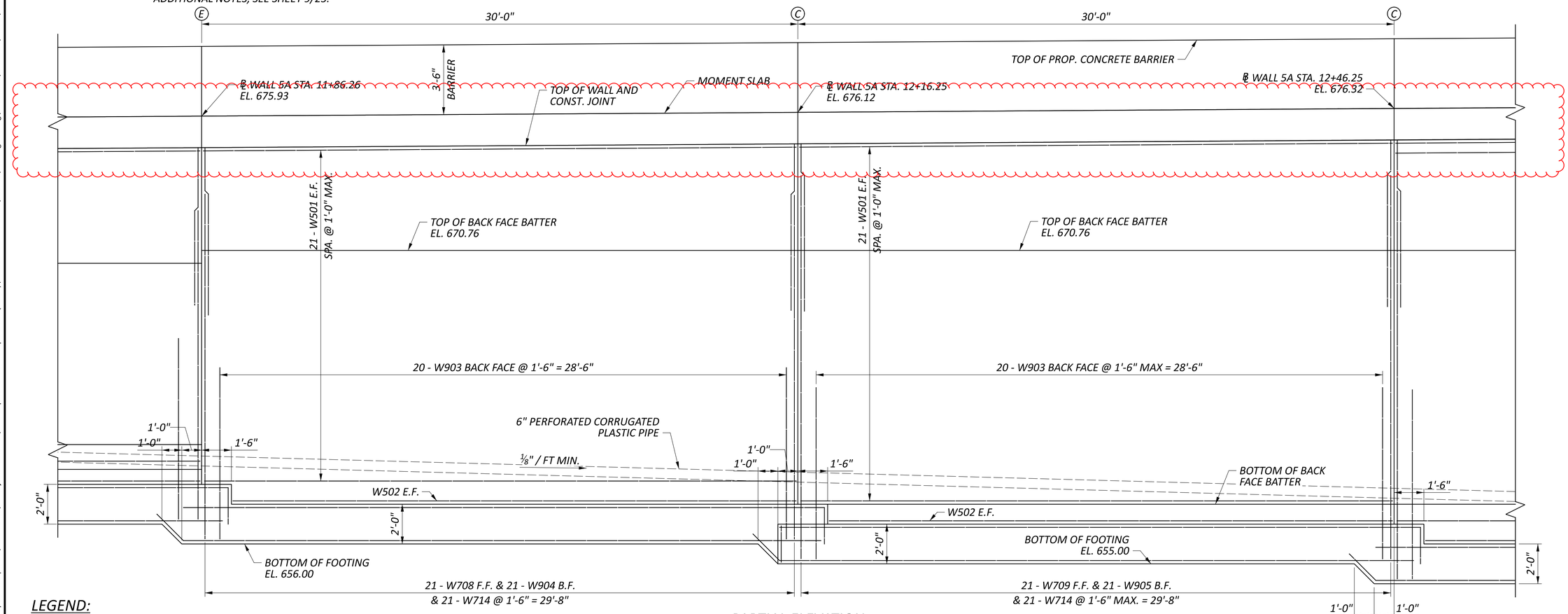


NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

PARTIAL PLAN

(*) - BACK FACE BATTER



LEGEND:

Ⓒ - CONTRACTION JOINT
Ⓔ - EXPANSION JOINT

PARTIAL ELEVATION

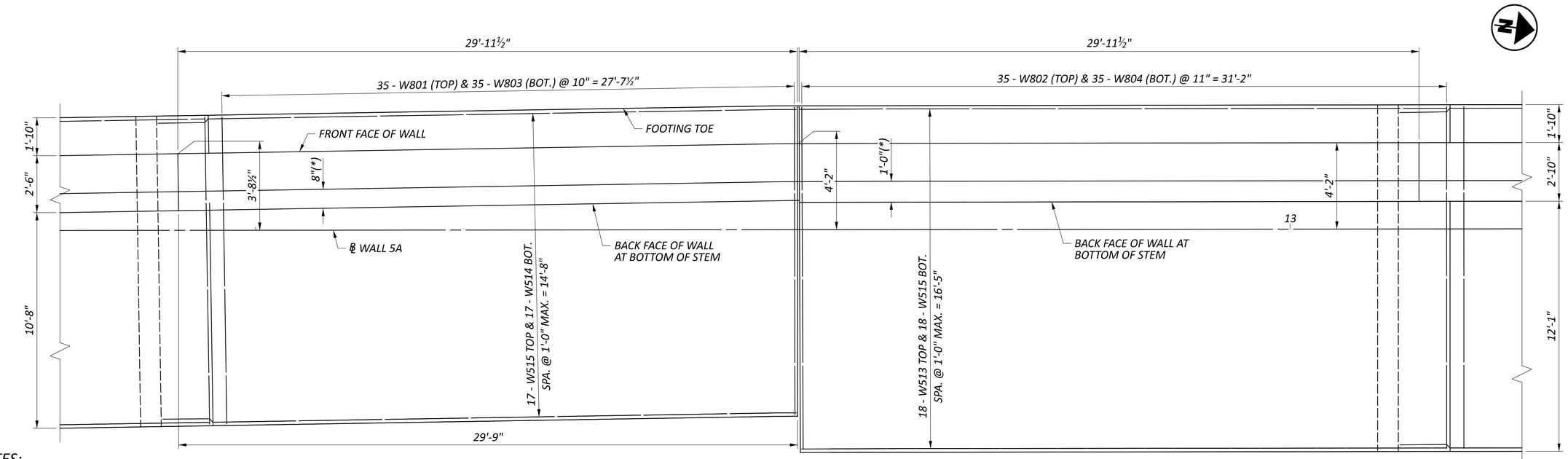
(LOOKING AT BACK FACE OF WALL)

WALL PLAN AND ELEVATION
RETAINING WALL 5A

CUY-77-11.41 - PART 1

MODEL: up 15-16 PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 9:57:23 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05A\Sheets\105743_WALL05A_WE001.dgn

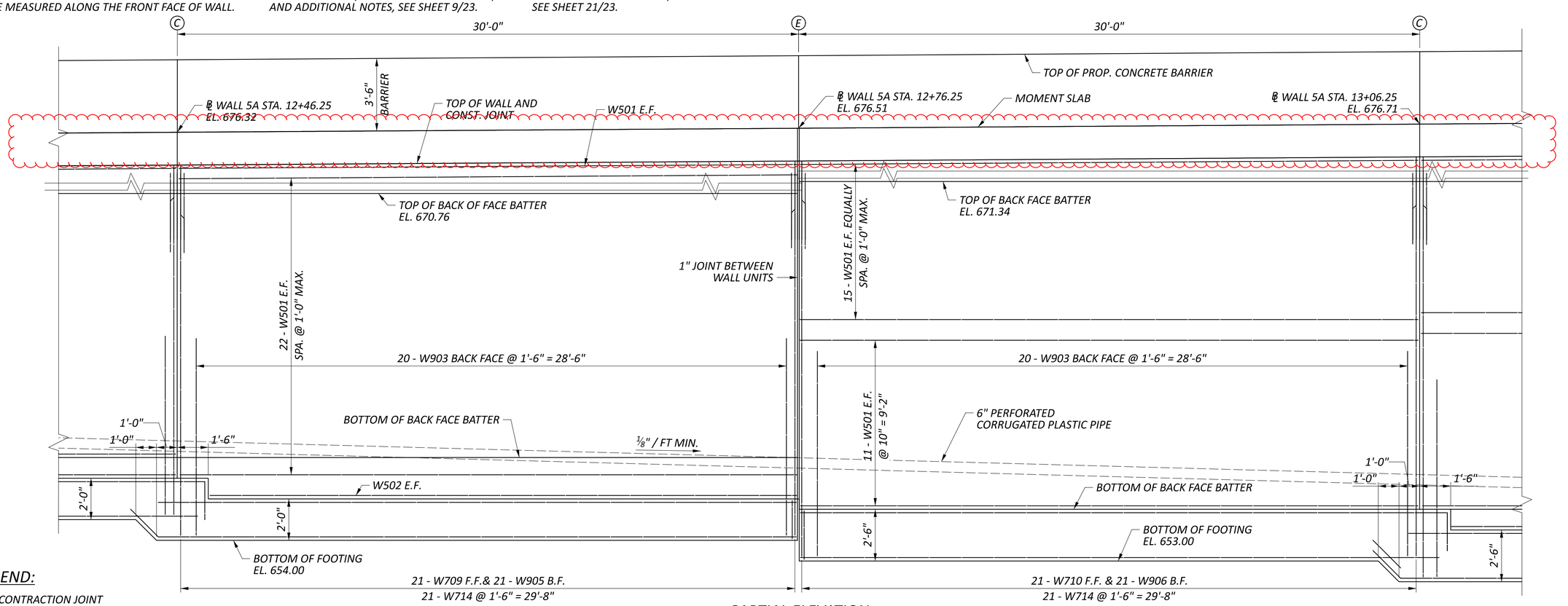
DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 16 | TOTAL: 23
SHEET: P.958 | TOTAL: P.1274



NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

PARTIAL PLAN



LEGEND:

Ⓒ - CONTRACTION JOINT
Ⓔ - EXPANSION JOINT
(*) - BACK FACE BATTER

PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

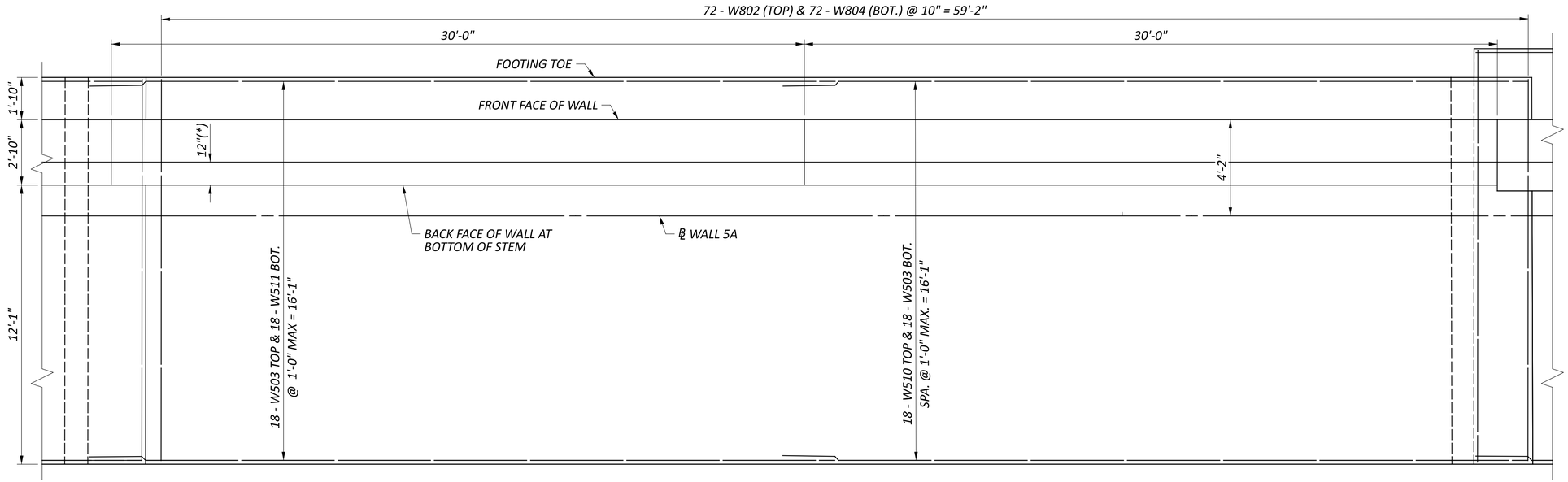
WALL PLAN AND ELEVATION
RETAINING WALL 5A

DESIGN AGENCY
TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	17
TOTAL	23
SHEET	P.959
TOTAL	P.1274

CUY-77-11.41 - PART 1

MODEL: up 17-18 PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 9:58:05 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05A\Sheets\105743_WALL05A_WE001.dgn



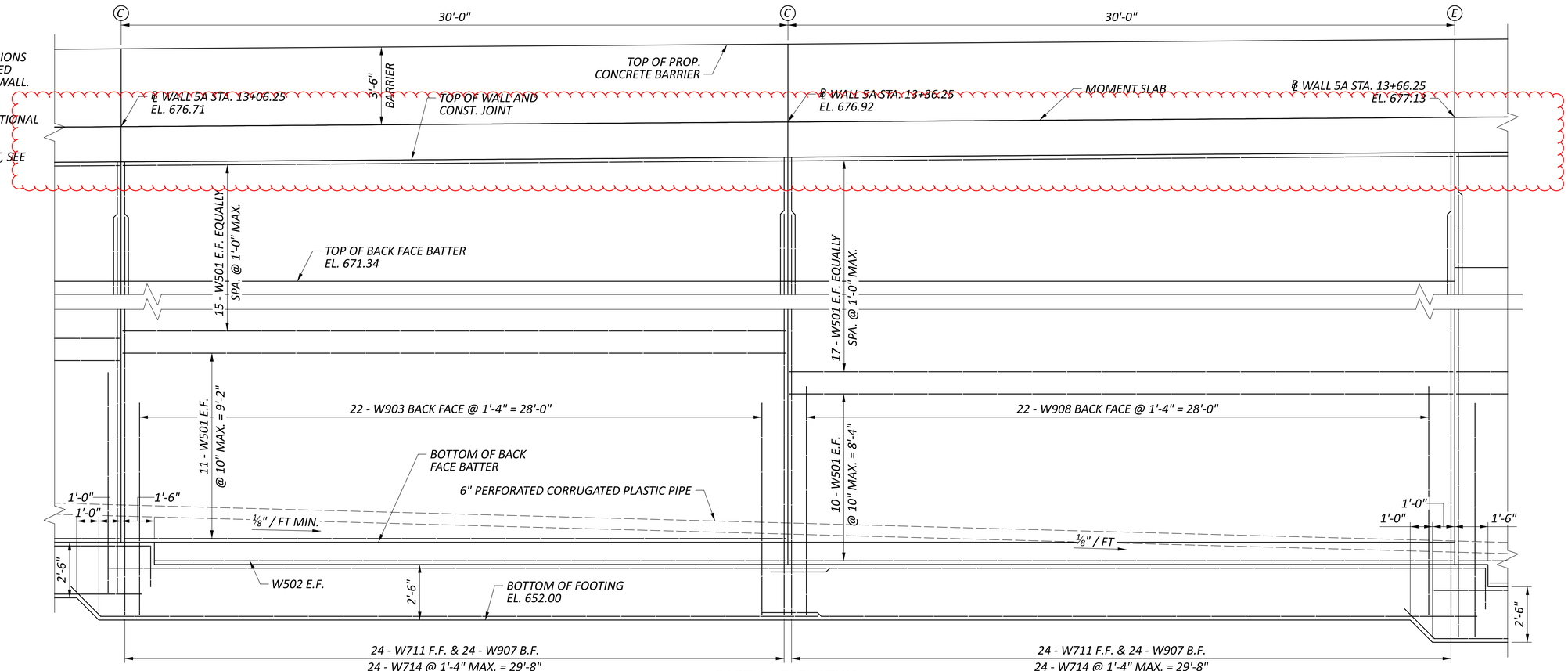
PARTIAL PLAN

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

LEGEND:

Ⓒ - CONTRACTION JOINT
Ⓔ - EXPANSION JOINT
(*) - BACK FACE BATTER



PARTIAL ELEVATION

(LOOKING AT BACK FACE OF WALL)

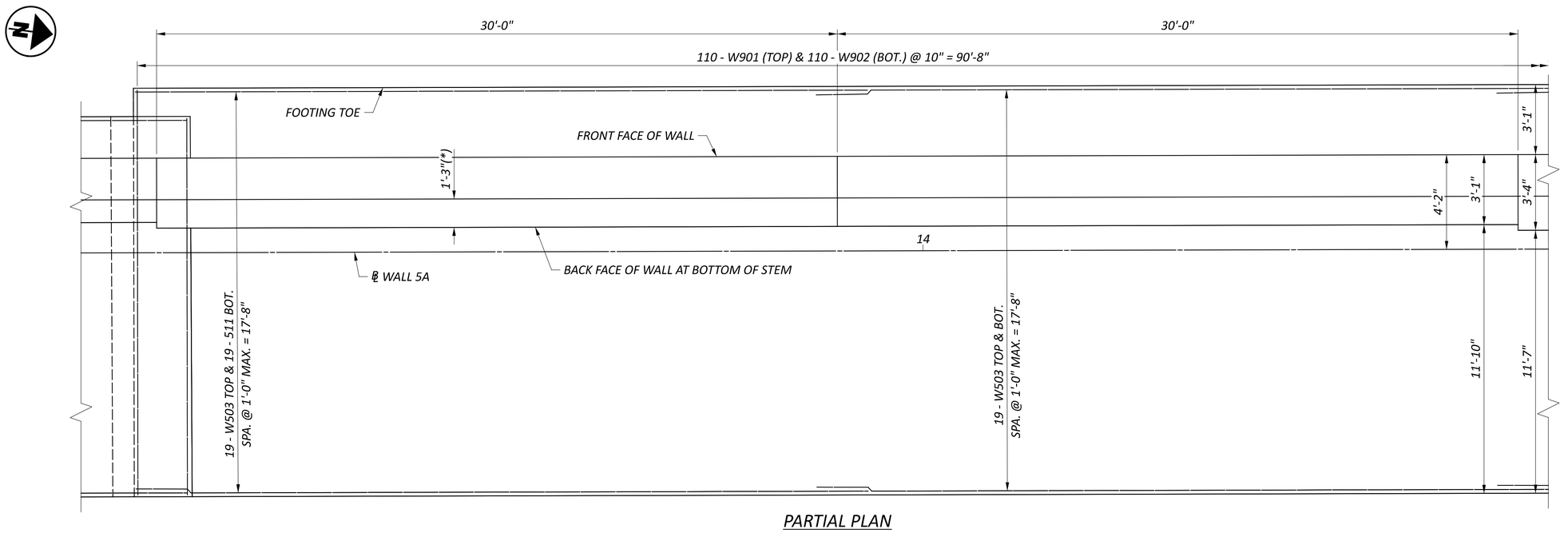
WALL PLAN AND ELEVATION
RETAINING WALL 5A

CUY-77-11.41 - PART 1

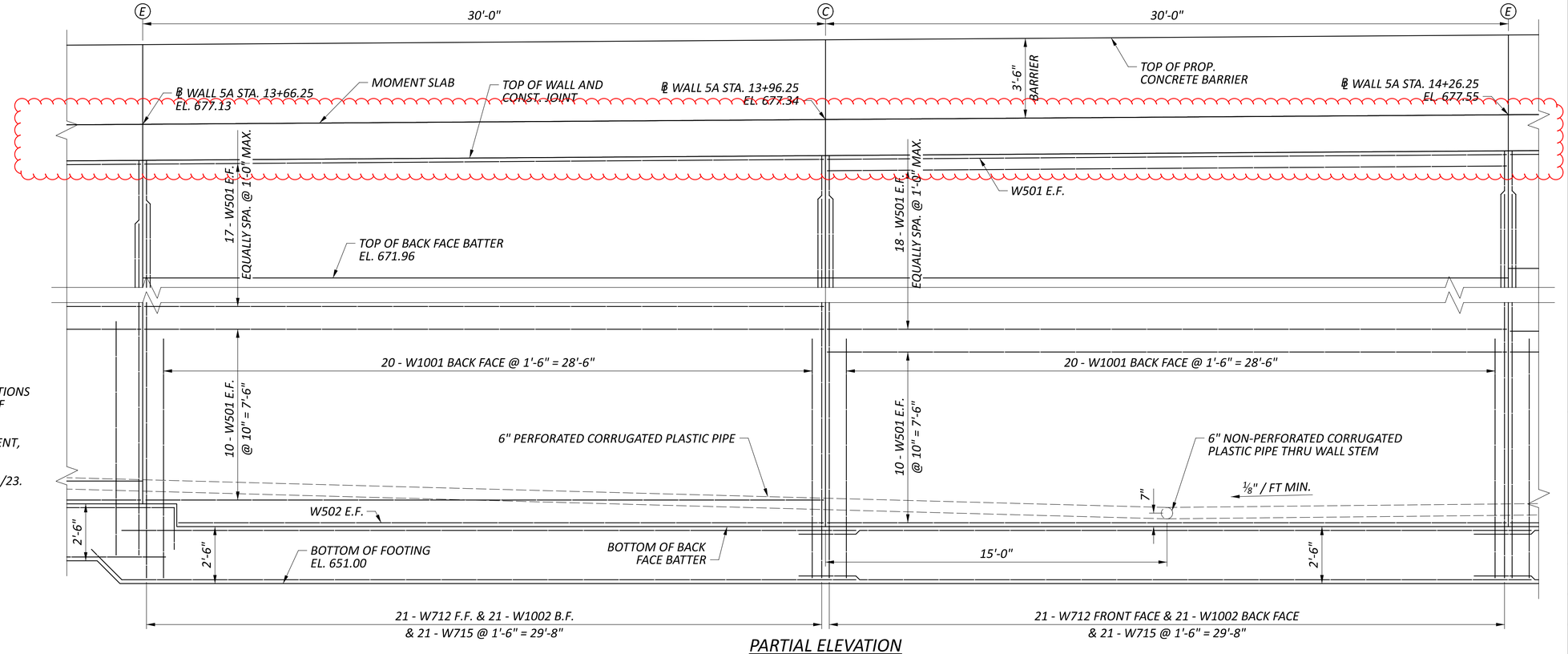
MODEL: up 19-20 PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 9:59:13 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05A\Sheets\105743_WALL05A_WE001.dgn

DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	18
TOTAL	23
SHEET	P.960
TOTAL	P.1274



PARTIAL PLAN



PARTIAL ELEVATION
(LOOKING AT BACK FACE OF WALL)

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

LEGEND:

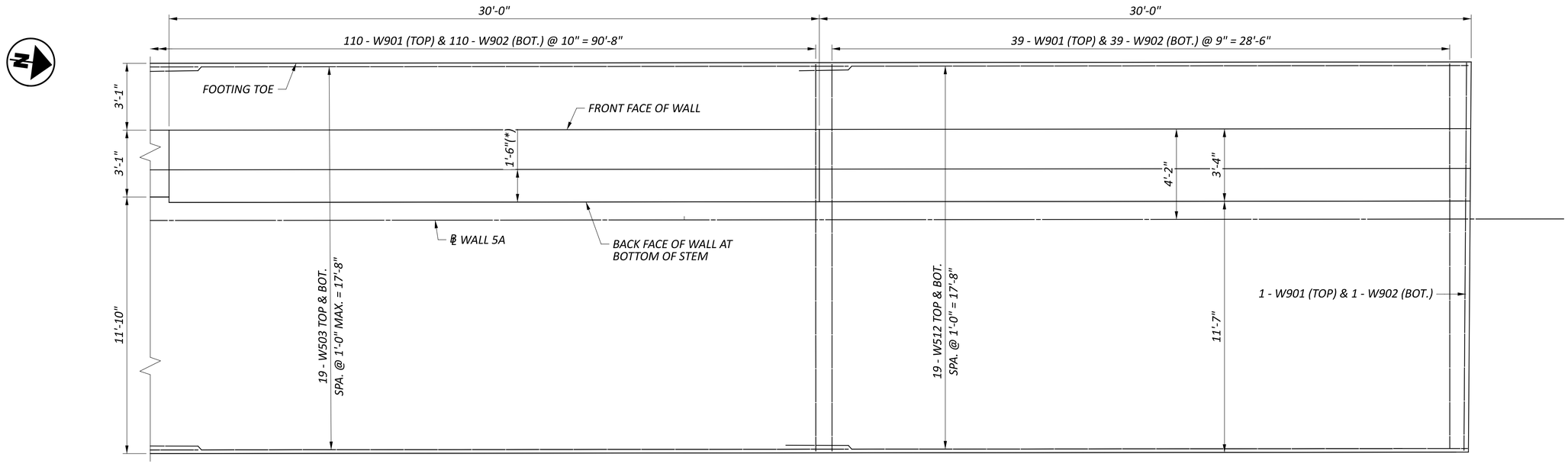
Ⓒ - CONTRACTION JOINT
Ⓔ - EXPANSION JOINT
(*) - BACK FACE BATTER

WALL PLAN AND ELEVATION
RETAINING WALL 5A

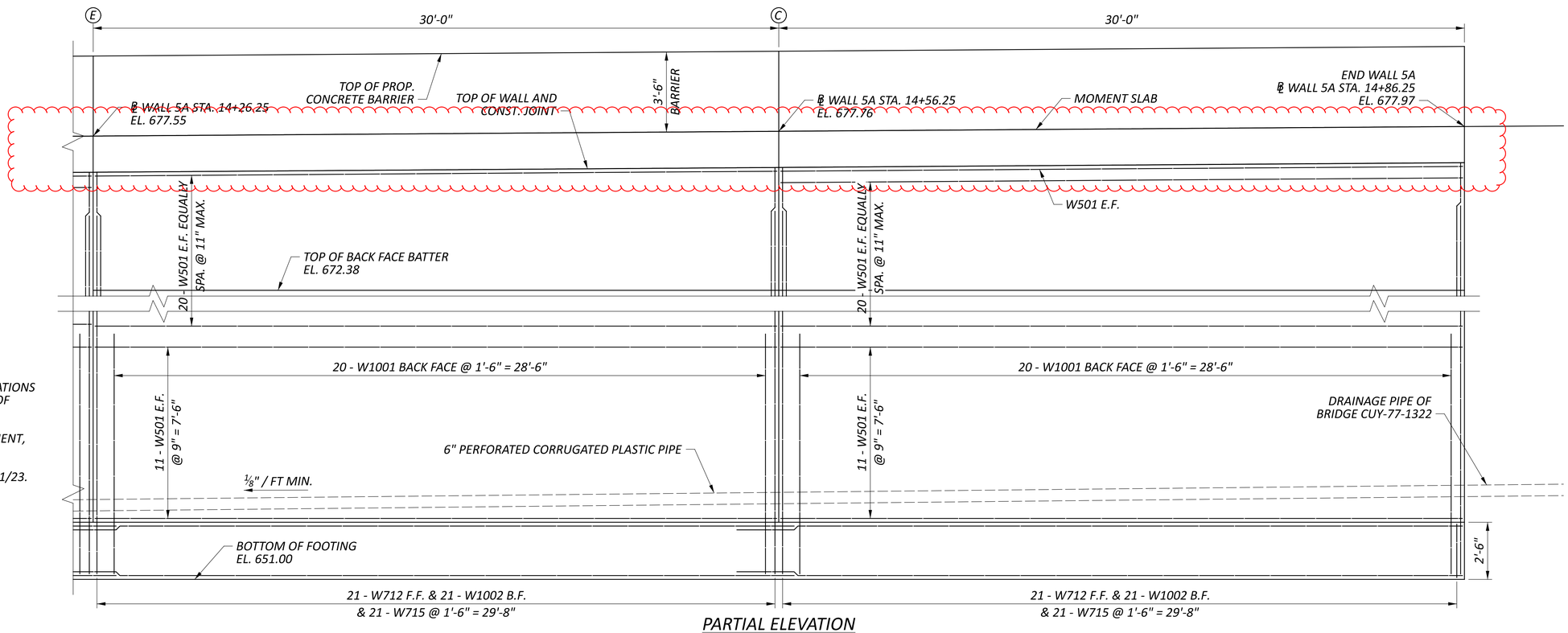
DESIGN AGENCY: TRC
DESIGNER: CEJ
REVIEWER: CJW 11/17/25
PROJECT ID: 105743
SUBSET: 19 TOTAL: 23
SHEET: P.961 TOTAL: P.1274

CUY-77-11.41 - PART 1

MODEL: UP 21-22 PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 9:59:46 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05A\Sheets\105743_WALL05A_WE001.dgn



PARTIAL PLAN



PARTIAL ELEVATION
(LOOKING AT BACK FACE OF WALL)

NOTES:

1. ALL LONGITUDINAL DIMENSIONS AND STATIONS ARE MEASURED ALONG THE FRONT FACE OF WALL.
2. FOR LAP LENGTHS, BARRIER REINFORCEMENT, AND ADDITIONAL NOTES, SEE SHEET 9/23.
3. FOR VANDAL FENCE LAYOUT, SEE SHEET 21/23.

LEGEND:

- (C) - CONTRACTION JOINT
- (E) - EXPANSION JOINT
- (*) - BACK FACE BATTER

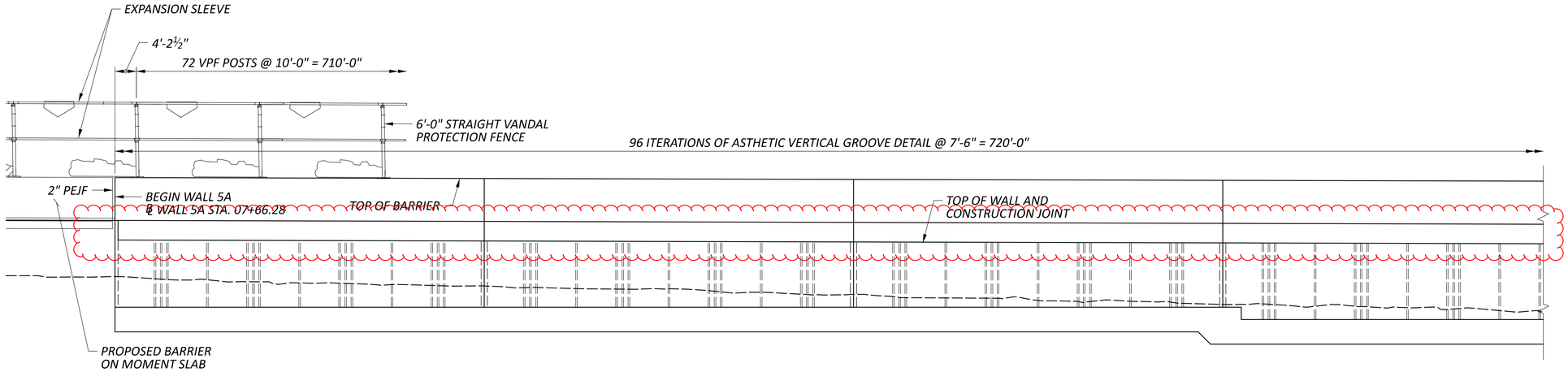
WALL PLAN AND ELEVATION
RETAINING WALL 5A

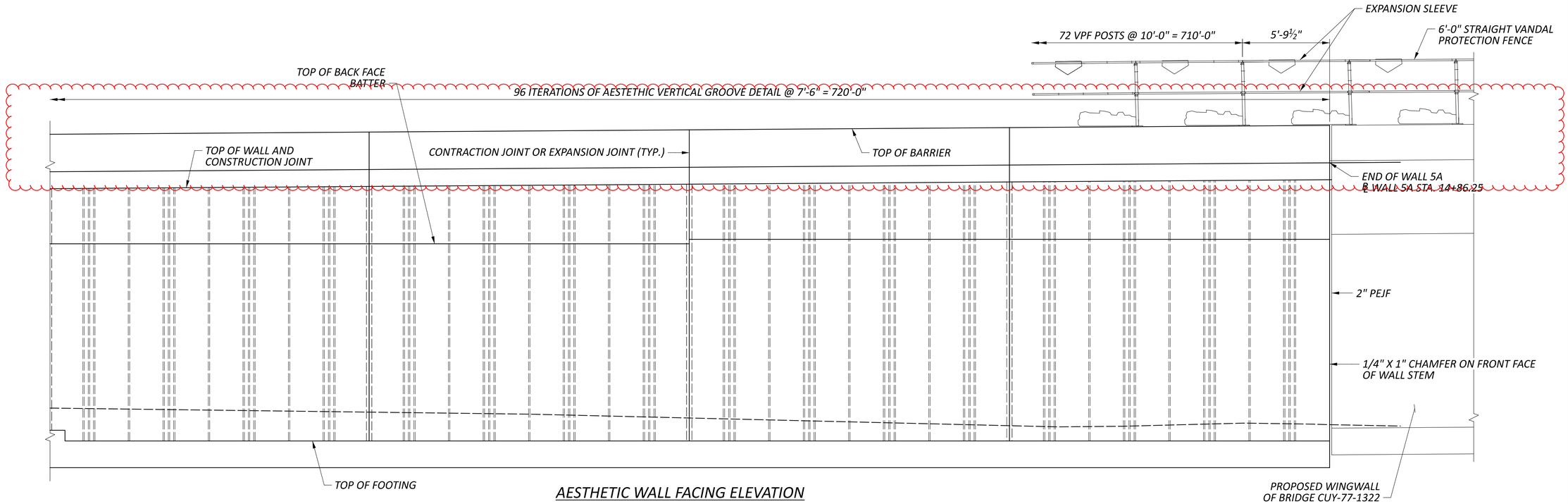
DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	20
TOTAL	23
SHEET	P.962
TOTAL	P.1274

CUY-77-11.41 - PART 1

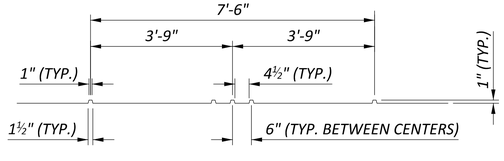
MODEL: UP 23-24 PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 10:00:07 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\Structures\WALL05A\Sheets\105743_WALL05A_WE001.dgn





AESTHETIC WALL FACING ELEVATION

(LOOKING AT BACK FACE OF WALL)



AESTHETIC VERTICAL GROOVE DETAIL

NOTES:

1. ALL DIMENSIONS ARE MEASURED ON THE FRONT FACE OF WALL.
2. PAYMENT FOR ALL FORMWORK, MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO PRODUCE THE AESTHETIC WALL FACING PATTERN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 511, CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN.
3. FOR WALL ELEVATIONS, SEE SHEETS 9/23 THRU 20/23.

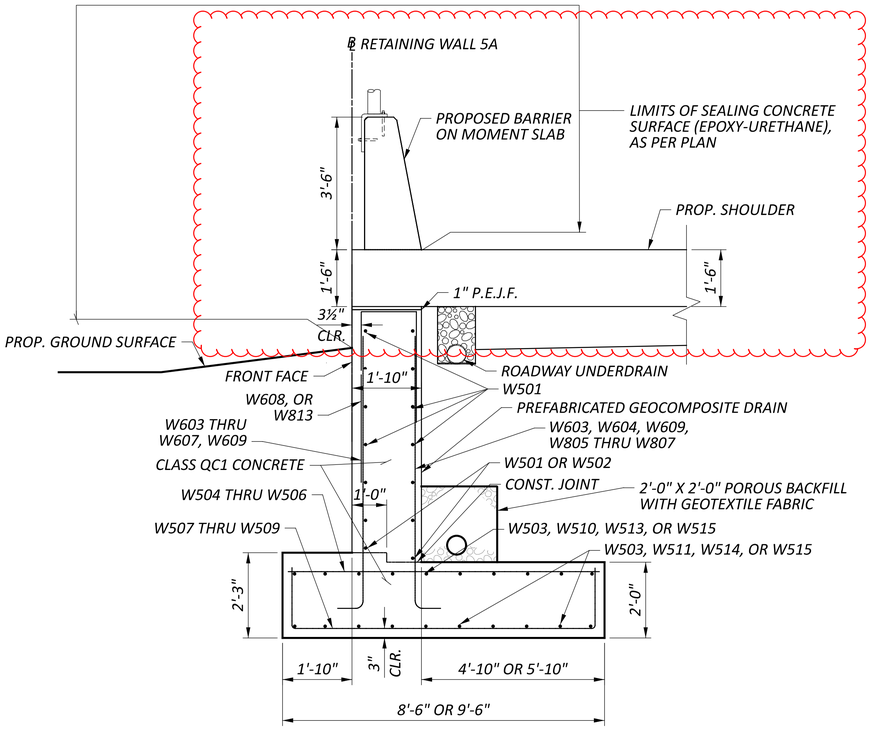
AESTHETIC DETAILS AND VANDAL FENCE LAYOUT RETAINING WALL 5A

CUY-77-11.41 - PART 1

MODEL: sheet 2 PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 11:16:14 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: BCSmith@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05A\Sheets\105743_WALL05A_WD001.dgn

DESIGN AGENCY: TRC

DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	21
TOTAL	23
SHEET	P.963
TOTAL	P.1274



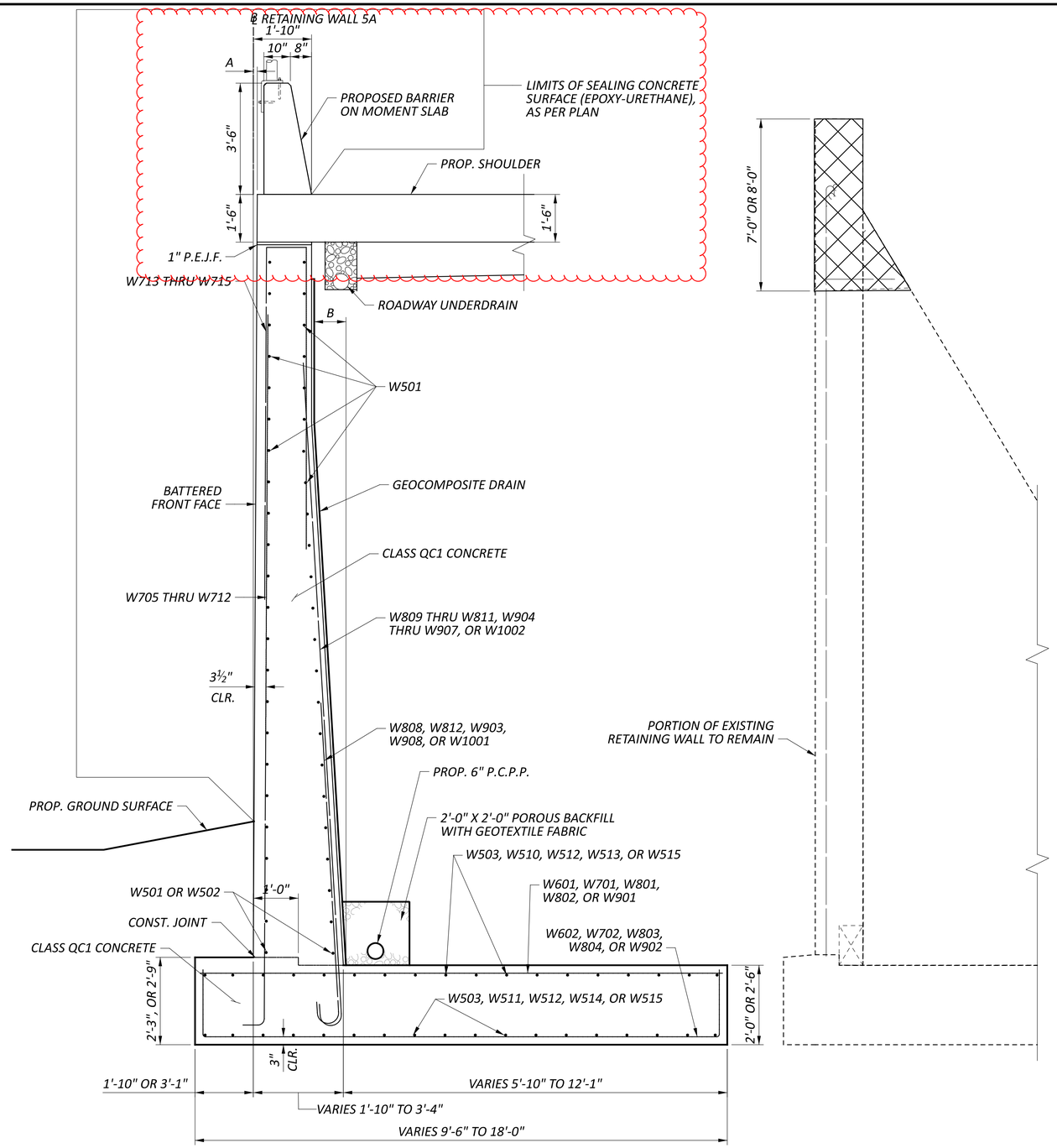
WALL 5A TYPICAL SECTION

(FROM ℄ WALL 5A STA. 7+66.28 TO 10+06.28)

WALL STEM BATTER		
WALL 5A STATION	FRONT FACE (DIM. "A")	BACK FACE (DIM. "B")
10+06.28	13/16"	0'-0"
10+36.28	13/16"	0'-0"
10+66.27	15/16"	0'-0"
10+96.27	1"	0'-5"
11+26.27	1 1/16"	0'-5"
11+56.26	1 1/8"	0'-5"
11+86.26	1 1/4"	0'-5"
12+16.25	1 5/16"	0'-5"
12+46.25	1 3/8"	0'-5"
12+76.25	1 7/16"	1'-0"
13+06.25	1 1/2"	1'-0"
13+36.25	1 1/2"	1'-0"
13+66.25	1 9/16"	1'-3"
13+96.25	1 9/16"	1'-3"
14+26.25	1 5/8"	1'-6"
14+56.25	1 5/8"	1'-6"
14+86.25	1 5/8"	1'-6"

NOTES:

1. FOR WALL PLAN AND ELEVATION, SEE SHEETS 9/23 THRU 20/23.
2. FOR REINFORCING STEEL LIST, SEE SHEET 23/23.
3. PREFABRICATED GEOCOMPOSITE DRAIN SHALL EXTEND AT LEAST 6 INCHES INTO THE POROUS BACKFILL BEHIND THE WALL STEM.
4. GRANULAR MATERIAL, TYPE C, COMPACTED PER CMS 203, SHALL BE PLACED ABOVE THE WALL FOOTING UP TO THE ROADWAY SUBGRADE AND BETWEEN THE PROPOSED WALL STEM AND THE EXISTING RETAINING WALL WHERE THE STRUCTURE REMAINS.



WALL 5A TYPICAL SECTION

(FROM ℄ WALL 5A STA. 10+06.28 TO 14+86.25)

TYPICAL SECTION RETAINING WALL 5A

CUY-77-11.41 - PART 1

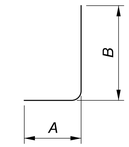
MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 12:39:08 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: BCSmith@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05A\Sheets\105743_WALL005A_WY001.dgn

DESIGN AGENCY TRC

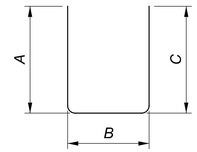
DESIGNER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET / TOTAL	22 / 23
SHEET / TOTAL	P.964 / P.1274

MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
WALL STEM AND FOOTING											
W501	872	29'-8"	26981	STR							
W502	28	28'-2"	823	STR							
W503	218	32'-2"	7314	STR							
W504	183	8'-2"	1559	STR							
W505	95	9'-2"	908	STR							
W506	73	10'-8"	812	STR							
W507	183	11'-3"	2147	2	1'-8"	8'-2"	1'-8"				
W508	95	12'-3"	1214	2	1'-8"	9'-2"	1'-8"				
W509	73	13'-9"	1047	2	1'-8"	10'-8"	1'-8"				
W510	143	33'-10"	5046	1	32'-2"	1'-10"					
W511	169	34'-2"	6022	19	32'-2"	1'-5"	1'-5"				
W512	38	30'-9"	1219	STR							
W513	29	32'-8"	988	1	31'-0"	1'-10"					
W514	28	32'-9"	956	19	30'-9"	1'-5"	1'-5"				
W515	57	31'-0"	1843	STR							
W601	73	12'-2"	1334	STR							
W602	73	15'-2"	1663	2	1'-8"	12'-2"	1'-8"				
W603	186	9'-4"	2607	1	8'-6"	1'-0"					
W604	186	10'-2"	2840	1	9'-4"	1'-0"					
W605	31	14'-8"	683	1	13'-10"	1'-0"					
W606	34	15'-11"	813	1	15'-1"	1'-0"					
W607	21	17'-1"	539	1	16'-3"	1'-0"					
W608	254	9'-0"	3434	2	4'-0"	1'-4"	4'-0"				
W609	136	11'-3"	2298	1	10'-5"	1'-0"					
W701	73	13'-8"	2039	STR							
W702	73	16'-6"	2462	2	1'-7"	13'-8"	1'-7"				
W705	24	13'-6"	662	1	12'-6"	1'-2"					
W706	24	14'-8"	719	1	13'-8"	1'-2"					
W707	24	15'-11"	781	1	14'-11"	1'-2"					
W708	21	16'-8"	715	1	15'-8"	1'-2"					
W709	42	17'-9"	1524	1	16'-9"	1'-2"					
W710	21	20'-3"	869	1	19'-3"	1'-2"					
W711	48	21'-7"	2118	1	20'-7"	1'-2"					
W712	84	22'-8"	3892	1	21'-8"	1'-2"					
W713	72	19'-9"	2907	2	9'-5"	1'-4"	9'-5"				
W714	132	20'-9"	5599	2	9'-11"	1'-4"	9'-11"				
W715	84	22'-1"	3792	2	10'-7"	1'-4"	10'-7"				
W801	72	14'-8"	2819	STR							
W802	107	16'-5"	4690	STR							
W803	72	17'-1"	3284	2	1'-6"	14'-6"	1'-6"				
W804	107	19'-10"	5666	2	2'-0"	16'-3"	2'-0"				
W805	31	13'-4"	1104	1	12'-2"	1'-4"					
W806	34	14'-5"	1301	1	13'-3"	1'-4"					
W807	41	15'-8"	1715	1	14'-6"	1'-4"					
W808	44	8'-8"	1018	16	7'-10"						
W809	24	14'-7"	934	16	13'-9"						
W810	24	15'-3"	977	16	14'-5"						
W811	24	16'-1"	1031	16	15'-3"						
W812	22	9'-11"	583	16	9'-1"						
W813	86	10'-11"	2507	2	5'-0"	1'-4"	5'-0"				
SUB-TOTAL			130,798								

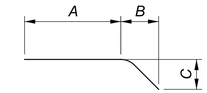
MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
WALL STEM AND FOOTING											
W901	150	17'-8"	9010	STR							
W902	150	21'-3"	10838	2	2'-1"	17'-8"	2'-1"				
W903	102	11'-1"	3844	16	9'-10"						
W904	21	18'-7"	1327	16	17'-4"						
W905	42	20'-9"	2963	16	19'-6"						
W906	21	22'-6"	1606	16	21'-3"						
W907	48	23'-4"	3808	16	22'-1"						
W908	22	11'-6"	860	16	10'-3"						
W1001	80	11'-11"	4102	16	10'-6"						
W1002	84	26'-3"	9488	16	24'-10"						
SUB-TOTAL			47,846								



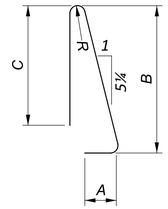
TYPE-1



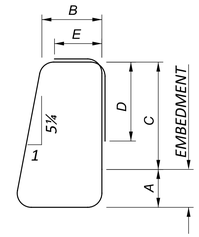
TYPE-2



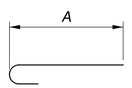
TYPE-19



TYPE-23



TYPE-37



TYPE-16

NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

2. ALL REINFORCING STEEL TO BE EPOXY COATED.

REINFORCING STEEL LIST
RETAINING WALL 5A

DESIGN AGENCY
TRC

DESIGNER
CEJ

REVIEWER
CJW 11/17/25

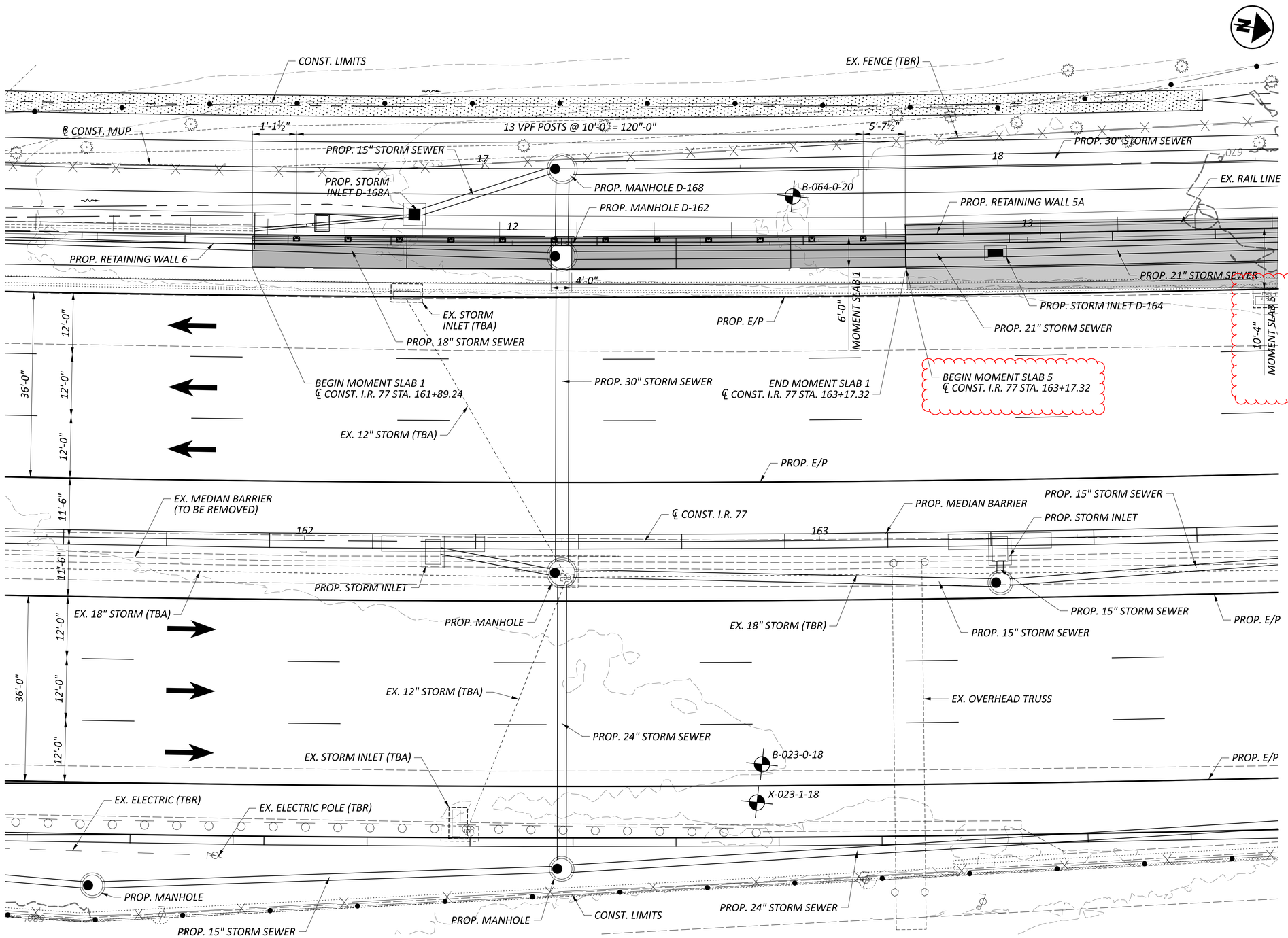
PROJECT ID
105743

SUBSET 23 | TOTAL 23

SHEET P.965 | TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 9:26:10 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: BCSmith@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\WALL05A\Sheets\105743_WALL05A_WL001.dgn



LEGEND:

- *- LIMITS OF PROPOSED MOMENT SLABS*
- *- SOIL BORING OR PAVEMENT CORING LOCATION*

NOTES:

1. *MOMENT SLAB 1 SHALL BE CONSTRUCTED IN MAINTENANCE OF TRAFFIC PHASES 1A, 1B, AND 1C.*

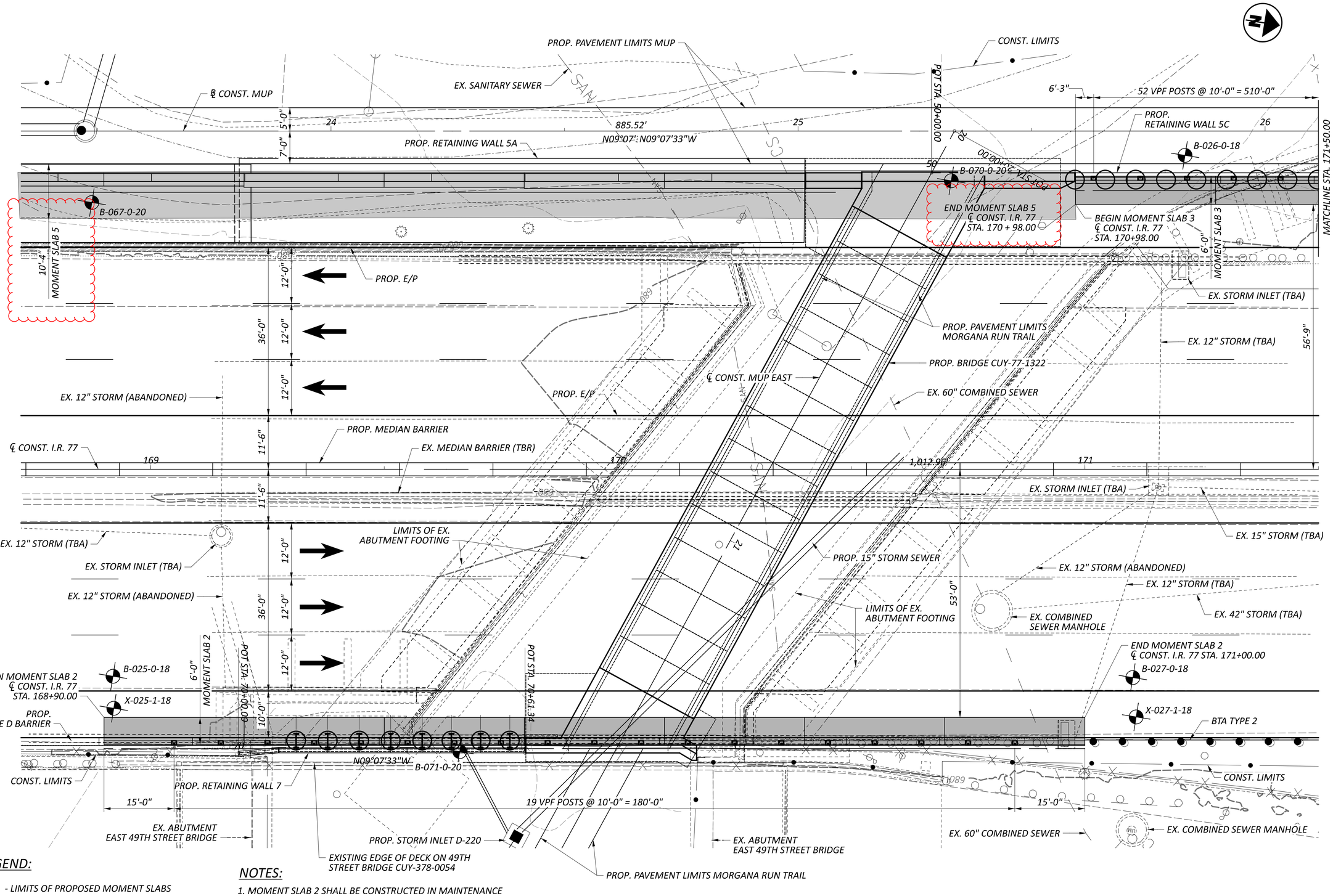
GENERAL PLAN 1 OF 4
MOMENT SLABS

CUY-77-11.41 - PART 1

MODEL: MS Plan Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 11:33:08 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\Moment Slabs\Sheets\105743_WALLMS_WP002.dgn

DESIGN AGENCY: TRC

DESIGNER	JCP
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	1
TOTAL	9
SHEET	P.1006
TOTAL	P.1274


PROP. PAVEMENT LIMITS MUP
CONST. LIMITS
℄ CONST. MUP
EX. SANITARY SEWER
SAN
885.52'
N09°07'33"W
PROP. RETAINING WALL 5A
POT STA. 50+00.00
6'-3"
52 VPF POSTS @ 10'-0" = 510'-0"
PROP. RETAINING WALL 5C
B-026-0-18
B-070-0-20
POT STA. 71+00.00
B-067-0-20
END MOMENT SLAB 5
℄ CONST. I.R. 77
STA. 170 + 98.00
BEGIN MOMENT SLAB 3
℄ CONST. I.R. 77
STA. 170+98.00
MATCHLINE STA. 171+50.00
MOMENT SLAB 5
MOMENT SLAB 3
EX. STORM INLET (TBA)
PROP. E/P
PROP. PAVEMENT LIMITS
MORGANA RUN TRAIL
EX. 12" STORM (TBA)
PROP. BRIDGE CUY-77-1322
℄ CONST. MUP EAST
EX. 60" COMBINED SEWER
EX. 12" STORM (ABANDONED)
PROP. MEDIAN BARRIER
EX. MEDIAN BARRIER (TBR)
℄ CONST. I.R. 77
1,012.96'
EX. STORM INLET (TBA)
EX. 15" STORM (TBA)
LIMITS OF EX.
ABUTMENT FOOTING
PROP. 15" STORM SEWER
EX. 12" STORM (ABANDONED)
EX. 12" STORM (TBA)
EX. 42" STORM (TBA)
EX. COMBINED
SEWER MANHOLE
END MOMENT SLAB 2
℄ CONST. I.R. 77 STA. 171+00.00
B-027-0-18
X-027-1-18
BTA TYPE 2
BEGIN MOMENT SLAB 2
℄ CONST. I.R. 77
STA. 168+90.00
B-025-0-18
X-025-1-18
PROP.
TYPE D BARRIER
MOMENT SLAB 2
POT STA. 70+00.09
POT STA. 70+61.34
N09°07'33"W
B-071-0-20
CONST. LIMITS
PROP. RETAINING WALL 7
19 VPF POSTS @ 10'-0" = 180'-0"
EX. ABUTMENT
EAST 49TH STREET BRIDGE
PROP. STORM INLET D-220
EXISTING EDGE OF DECK ON 49TH
STREET BRIDGE CUY-378-0054
EX. ABUTMENT
EAST 49TH STREET BRIDGE
EX. 60" COMBINED SEWER
EX. COMBINED SEWER MANHOLE
PROP. PAVEMENT LIMITS MORGANA RUN TRAIL
169
170
171
24
25
26
50
21
1089
1088
1087
1086
1085
1084
1083
1082
1081
1080
1079
1078
1077
1076
1075
1074
1073
1072
1071
1070
1069
1068
1067
1066
1065
1064
1063
1062
1061
1060
1059
1058
1057
1056
1055
1054
1053
1052
1051
1050
1049
1048
1047
1046
1045
1044
1043
1042
1041
1040
1039
1038
1037
1036
1035
1034
1033
1032
1031
1030
1029
1028
1027
1026
1025
1024
1023
1022
1021
1020
1019
1018
1017
1016
1015
1014
1013
1012
1011
1010
1009
1008
1007
1006
1005
1004
1003
1002
1001
1000
999
998
997
996
995
994
993
992
991
990
989
988
987
986
985
984
983
982
981
980
979
978
977
976
975
974
973
972
971
970
969
968
967
966
965
964
963
962
961
960
959
958
957
956
955
954
953
952
951
950
949
948
947
946
945
944
943
942
941
940
939
938
937
936
935
934
933
932
931
930
929
928
927
926
925
924
923
922
921
920
919
918
917
916
915
914
913
912
911
910
909
908
907
906
905
904
903
902
901
900
899
898
897
896
895
894
893
892
891
890
889
888
887
886
885
884
883
882
881
880
879
878
877
876
875
874
873
872
871
870
869
868
867
866
865
864
863
862
861
860
859
858
857
856
855
854
853
852
851
850
849
848
847
846
845
844
843
842
841
840
839
838
837
836
835
834
833
832
831
830
829
828
827
826
825
824
823
822
821
820
819
818
817
816
815
814
813
812
811
810
809
808
807
806
805
804
803
802
801
800
799
798
797
796
795
794
793
792
791
790
789
788
787
786
785
784
783
782
781
780
779
778
777
776
775
774
773
772
771
770
769
768
767
766
765
764
763
762
761
760
759
758
757
756
755
754
753
752
751
750
749
748
747
746
745
744
743
742
741
740
739
738
737
736
735
734
733
732
731
730
729
728
727
726
725
724
723
722
721
720
719
718
717
716
715
714
713
712
711
710
709
708
707
706
705
704
703
702
701
700
699
698
697
696
695
694
693
692
691
690
689
688
687
686
685
684
683
682
681
680
679
678
677
676
675
674
673
672
671
670
669
668
667
666
665
664
663
662
661
660
659
658
657
656
655
654
653
652
651
650
649
648
647
646
645
644
643
642
641
640
639
638
637
636
635
634
633
632
631
630
629
628
627
626
625
624
623
622
621
620
619
618
617
616
615
614
613
612
611
610
609
608
607
606
605
604
603
602
601
600
599
598
597
596
595
594
593
592
591
590
589
588
587
586
585
584
583
582
581
580
579
578
577
576
575
574
573
572
571
570
569
568
567
566
565
564
563
562
561
560
559
558
557
556
555
554
553
552
551
550
549
548
547
546
545
544
543
542
541
540
539
538
537
536
535
534
533
532
531
530
529
528
527
526
525
524
523
522
521
520
519
518
517
516
515
514
513
512
511
510
509
508
507
506
505
504
503
502
501
500
499
498
497
496
495
494
493
492
491
490
489
488
487
486
485
484
483
482
481
480
479
478
477
476
475
474
473
472
471
470
469
468
467
466
465
464
463
462
461
460
459
458
457
456
455
454
453
452
451
450
449
448
447
446
445
444
443
442
441
440
439
438
437
436
435
434
433
432
431
430
429
428
427
426
425
424
423
422
421
420
419
418
417
416
415
414
413
412
411
410
409
408
407
406
405
404
403
402
401
400
399
398
397
396
395
394
393
392
391
390
389
388
387
386
385
384
383
382
381
380
379
378
377
376
375
374
373
372
371
370
369
368
367
366
365
364
363
362
361
360
359
358
357
356
355
354
353
352
351
350
349
348
347
346
345
344
343
342
341
340
339
338
337
336
335
334
333
332
331
330
329
328
327
326
325
324
323
322
321
320
319
318
317
316
315
314
313
312
311
310
309
308
307
306
305
304
303
302
301
300
299
298
297
296
295
294
293
292
291
290
289
288
287
286
285
284
283
282
281
280
279
278
277
276
275
274
273
272
271
270
269
268
267
266
265
264
263
262
261
260
259
258
257
256
255
254
253
252
251
250
249
248
247
246
245
244
243
242
241
240
239
238
237
236
235
234
233
232
231
230
229
228
227
226
225
224
223
222
221
220
219
218
217
216
215
214
213
212
211
210
209
208
207
206
205
204
203
202
201
200
199
198
197
196
195
194
193
192
191
190
189
188
187
186
185
184
183
182
181
180
179
178
177
176
175
174
173
172
171
170
169
168
167
166
165
164
163
162
161
160
159
158
157
156
155
154
153
152
151
150
149
148
147
146
145
144
143
142
141
140
139
138
137
136
135
134
133
132
131
130
129
128
127
126
125
124
123
122
121
120
119
118
117
116
115
114
113
112
111
110
109
108
107
106
105
104
103
102
101
100
99
98
97
96
95
94
93
92
91
90
89
88
87
86
85
84
83
82
81
80
79
78
77
76
75
74
73
72
71
70
69
68
67
66
65
64
63
62
61
60
59
58
57
56
55
54
53
52
51
50
49
48
47
46
45
44
43
42
41
40
39
38
37
36
35
34
33
32
31
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12
-13
-14
-15
-16
-17
-18
-19
-20
-21
-22
-23
-24
-25
-26
-27
-28
-29
-30
-31
-32
-33
-34
-35
-36
-37
-38
-39
-40

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD DRAWINGS:

BP-2.2	DATED (REVISED)	1-15-21
SBR-1-20	DATED (REVISED)	7-19-24
VPF-1-24	DATED (REVISED)	1-17-25

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 10TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN DATA

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI

EPOXY COATED REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI

ITEM 511 - QC2 CONCRETE, MISC.: MOMENT SLAB, WITH QC/QA

THIS PAY ITEM IS FOR CONSTRUCTION OF THE CAST-IN-PLACE CONCRETE MOMENT SLABS. PAYMENT SHALL INCLUDE CONCRETE, TRANSVERSE JOINT DOWELS, AND CONTRACTION JOINT SAWCUTS.

ITEM 511 - QC2 CONCRETE, MISC.: BARRIER ON MOMENT SLAB, WITH QC/QA

THIS PAY ITEM IS FOR CONSTRUCTION OF THE CAST-IN-PLACE MOMENT SLAB BARRIERS. PAYMENT SHALL INCLUDE CONCRETE AND CONTRACTION JOINT SAWCUTS.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL SURFACES OF THE MOMENT SLAB BARRIERS AS DETAILED IN THE PLANS WITH AN EPOXY-URETHANE SEALER AS PER CMS 512.

THE COLOR OF THE SEALER SHALL BE FEDERAL COLOR STANDARD NUMBER 17875.

ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPROX. - APPROXIMATE
ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS

B.F. - BACK FACE
BOT. - BOTTOM
BRGS. - BEARINGS

C|L - CENTERLINE
C/C - CENTER TO CENTER
CIP - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CLR. - CLEARANCE
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST. - CONSTRUCTION

DIA. - DIAMETER
DWG. - DRAWING

E.F. - EACH FACE
E/P - EDGE OF PAVEMENT
E/S - EDGE OF SHOULDER
EL. - ELEVATION
EQ. - EQUAL
EX. - EXISTING

F.A. - FORWARD ABUTMENT
F.F. - FRONT FACE
F/F - FACE TO FACE
FTG. - FOOTING
FT/FT - FOOT PER FOOT
FWD. - FORWARD

I - INTERSTATE ROUTE

JT. - JOINT

LT. - LEFT

MAX. - MAXIMUM
MIN. - MINIMUM
MOT - MAINTENANCE OF TRAFFIC

NB - NORTHBOUND
N.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE

O/O - OUT TO OUT

P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER

R.A. - REAR ABUTMENT
RT. - RIGHT

SB - SOUTHBOUND
S.O. - SERIES OF
SPA. - SPACES OR SPACING
STA. - STATION
STD. - STANDARD
STR. - STRAIGHT

TEMP. - TEMPORARY
T/T - TOE TO TOE
TYP. - TYPICAL

VERT. - VERTICAL

ITEM 607 - VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC, AS PER PLAN

THIS ITEM SHALL BE AS PER THE DETAILS IN THE PLAN, THE APPLICABLE PORTIONS OF STANDARD DRAWING VPF-1-24, AND THE MANUFACTURER'S RECOMMENDATIONS.

THE ANCHORS ON THE TOP OF THE PROPOSED CONCRETE BRIDGE RAILING SHALL BE CAST IN PLACE WITH A 6" OR 7" MINIMUM EMBEDMENT LENGTH, AS SHOWN ON THE STANDARD DRAWING FOR THE SPECIFIED BASE PLATE TYPE.

AT LOCATIONS WHERE THE FENCE SPANS ACROSS AN EXPANSION JOINT IN THE BRIDGE RAILING AT AN INTEGRAL OR SEMI-INTEGRAL ABUTMENT, DO NOT INSTALL LINE RAILS AND EXPANSION JOINT SLEEVES; HOWEVER, THE FABRIC SHALL REMAIN CONTINUOUS ACROSS THE EXPANSION JOINT.

THE COLOR OF THE FENCE FABRIC, RAILS, POSTS, PLATES, TIE WIRES, AND ADDITIONAL VISUAL HARDWARE AND CAULK SHALL BE BLACK.

PAYMENT FOR THE ABOVE SHALL BE AT THE UNIT PRICE BID PER FOOT FOR ITEM 607 - VANDAL PROTECTION FENCE 6' STRAIGHT, COATED FABRIC, AS PER PLAN WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ESTIMATED QUANTITIES (MOMENT SLABS)

ITEM	EXTENSION	TOTAL PART 01/IMS	UNIT	DESCRIPTION	SEE SHEET
509	10000	144506	LB	EPOXY COATED STEEL REINFORCEMENT	
511	53012	384	CY	CLASS QC2 CONCRETE, MISC.: MOMENT SLAB, WITH QC/QA	5
511	53012	641	CY	CLASS QC2 CONCRETE, MISC.: BARRIER ON MOMENT SLAB, WITH QC/QA	5
512	10101	901	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	5
516	13600	448	SF	1" PREFORMED EXPANSION JOINT FILLER	
516	31000	205	FT	JOINT SEALER	
607	39900	1702	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC, AS PER PLAN	5

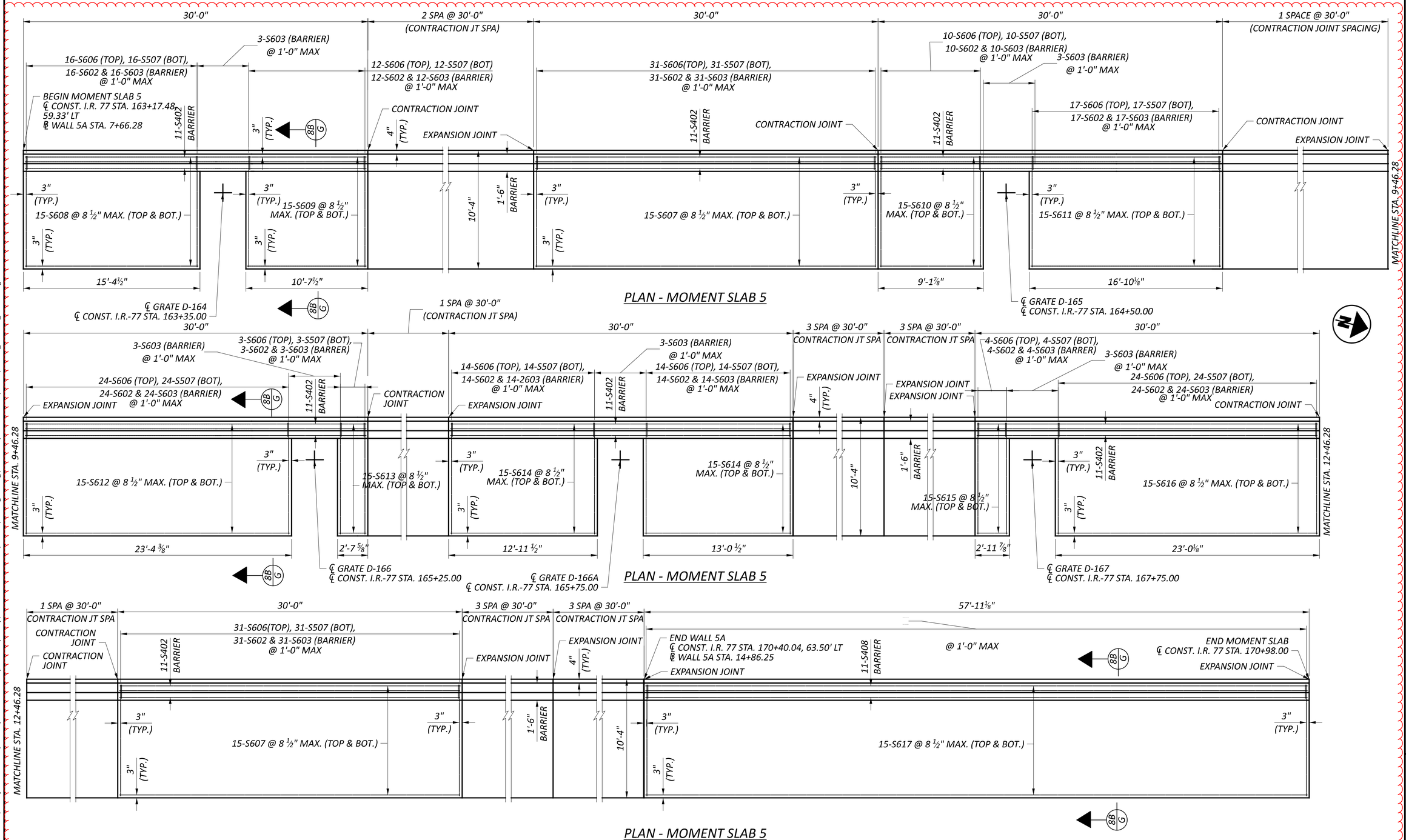
GENERAL NOTES AND ESTIMATED QUANTITIES
MOMENT SLABS

DESIGN AGENCY
TRC

DESIGNER JCP
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 5 | TOTAL 9
SHEET P.1010 | TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 10:55:43 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\Moment Slabs\Sheets\105743_WALL0M5_WN001.dgn



REINFORCEMENT PLAN
MOMENT SLABS

DESIGN AGENCY
TRC

DESIGNER
JCP

REVIEWER
CJW 11/17/25

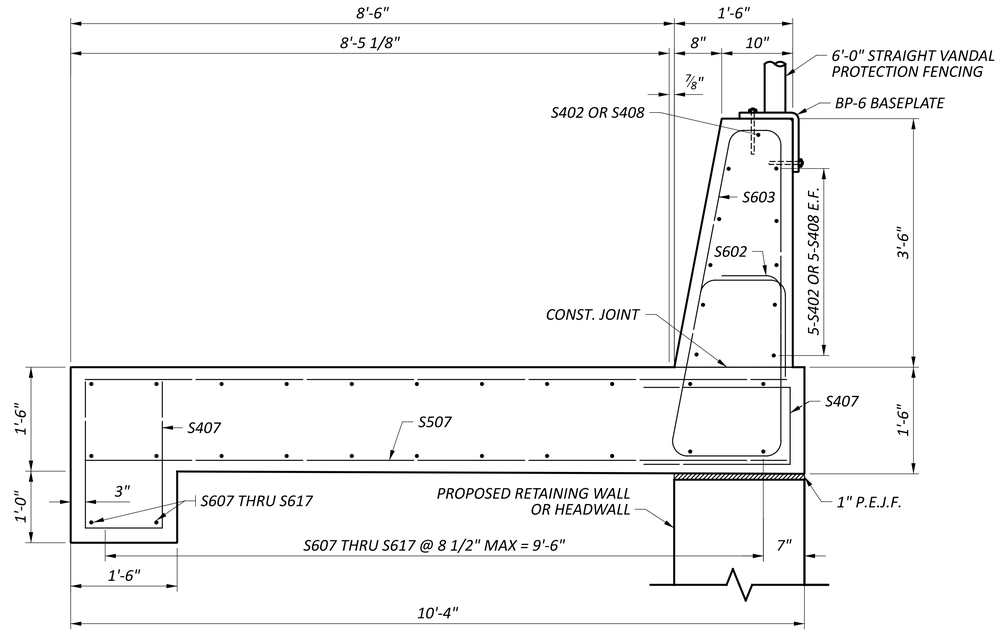
PROJECT ID
105743

SUBSET 8A | TOTAL 9

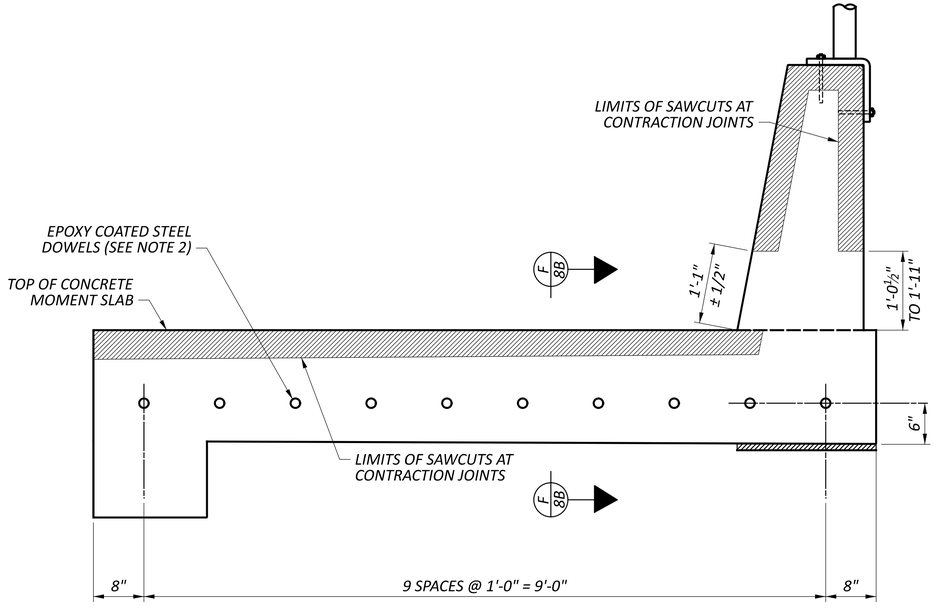
SHEET P.1013A | TOTAL P.1274

CUY-77-11.41 - PART 1

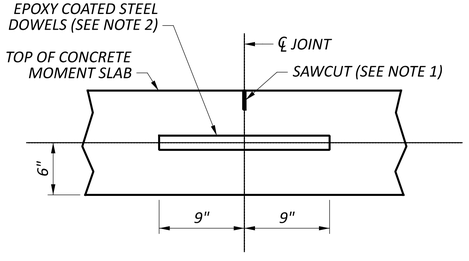
MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 10:44:05 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\Moment Slabs\Sheets\105743_WALLMS_WY010A.dgn



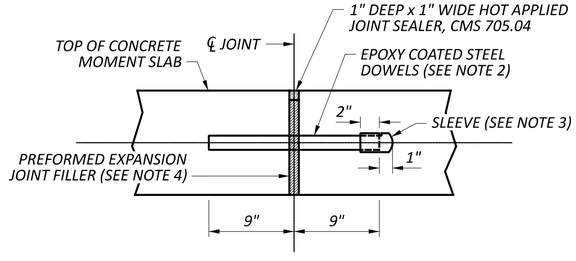
SECTION G-G



JOINT DETAIL



SECTION F-F CONTRACTION JOINT



SECTION F-F EXPANSION JOINT

1. *SAWCUTS SHALL BE 1/4" +/-1/16" WIDE WITH 4" DEPTH. IF EARLY ENTRY SAWS ARE USED, CUTS SHALL BE 1/8" WIDE WITH DEPTH OF 2 1/4" TO 2 1/2". SEAL THE PERIMETER OF SAWCUTS IN ACCORDANCE WITH SBR-120 REQUIREMENTS FOR CONCRETE RAILING DEFLECTION JOINTS.*
2. *DOWELS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH CMS 451.09B AND 709.13.*
3. *INSTALL SLEEVES ON OPPOSITE ENDS OF ADJACENT DOWELS.*
4. *EXPANSION JOINT FILLER SHALL EXTEND ACROSS THE FULL SECTION AREA OF THE BARRIER IN ADDITION TO THE MOMENT SLAB AS DETAILED.*
5. *FOR DETAIL 'A', DETAIL 'B', AND SECTION A-A, SEE SHEET 8 OF 9.*
6. *A STRUCTURE GROUNDING SYSTEM AT BRIDGE NO. CUY-77-1322 SHALL BE INSTALLED AND BONDED TO THE VANDAL PROTECTION FENCE ON MOMENT SLAB 2 IN ACCORDANCE WITH STANDARD DRAWING HL-50.21. FOR PAYMENT, REFER TO ITEM 625, SERVICE TO UNDERPASS LIGHTING, AS PER PLAN, IN THE LIGHTING PLAN NOTES.*
7. *FOR REINFORCING STEEL LIST, SEE SHEET 9 OF 9.*

JOINT DETAILS AND SECTIONS MOMENT SLABS

DESIGN AGENCY
TRC

DESIGNER
JCP

REVIEWER
CJW 11/17/25

PROJECT ID
105743

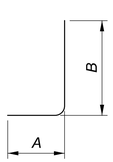
SUBSET 8B | TOTAL 9

SHEET P.1013B | TOTAL P.1274

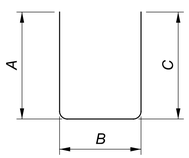
CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 11:21:42 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\100 - Engineering\Structures\Moment Slabs\Sheets\105743_WALLMS_WY020.dgn

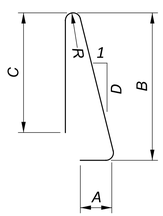
MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
S401	44	16'-11"	497	STR							
S402	572	29'-8"	11336	STR							
S403	48	10'-0"	321	STR							
S404	24	6'-5"	103	25	2'-6"	2'-5"	1'-5"	0'-1 ½"	0'-5"		
S405	24	6'-1"	98	STR							
S406	33	21'-9"	479	STR							
S407	1576	4'-10"	5088	2	2'-0"	1'-0"	2'-0"				
S408	11	57'-7"	423	STR							
S501	1055	5'-8"	6235	STR							
S502	410	29'-8"	12686	STR							
S503	28	29'-3"	854	STR							
S504	10	27'-6"	287	STR							
S505	32	21'-9"	726	STR							
S506	10	19'-9"	206	STR							
S507	788	10'-0"	8219	STR							
S601	1055	5'-8"	8979	STR							
S602	1787	8'-0"	21473	37	0'-9 ½"	2'-7"	0'-7"	1'-0"	0'-5 ¼"		
S603	1791	6'-7"	17858	23	0'-6"	3'-3"	3'-3"			0'-2"	
S604	8 SER. OF	4'-6" TO	650	1	1'-0"	3'-8" TO					0'-1"
	11	5'-4"				4'-6"					
S605	32	4'-6"	216	1	1'-0"	3'-8"					
S606	788	10'-0"	11836	STR							
S607	608	29'-8"	27092	STR							
S608	32	15'-0"	721	STR							
S609	32	10'-3"	493	STR							
S610	32	8'-10"	425	STR							
S611	32	16'-6"	793	STR							
S612	32	23'-0"	1105	STR							
S613	32	2'-3"	108	STR							
S614	64	12'-8"	1218	STR							
S615	32	2'-7"	124	STR							
S616	32	22'-8"	1089	STR							
S617	32	57'-7"	2768	STR							
		TOTAL	144506								



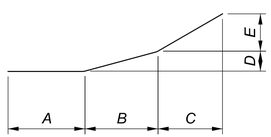
TYPE-1



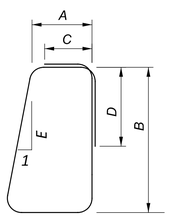
TYPE-2



TYPE-23



TYPE-25



TYPE-37

NOTES:

1. *THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATE THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.*

2. *ALL REINFORCING STEEL TO BE EPOXY COATED.*

REINFORCING STEEL LIST
MOMENT SLABS

DESIGN AGENCY: TRC

DESIGNER: JCP

REVIEWER: CJW 11/17/25

PROJECT ID: 105743

SUBSET: 9 | TOTAL: 9

SHEET: P.1014 | TOTAL: P.1274

CUY-77-11.41 - PART 1

MODEL: Steel Reinforcing List PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 10:58:39 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: NCaiazzo@trcsolutions.com WORKSPACE: OHDOTCEx02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\Moment Slabs\Sheets\105743_WALLMS1_WL001.dgn

ITEM 611 - 24" CONDUIT, TYPE B, AS PER PLAN, 748.01

THE CONTRACTOR SHALL PERFORM THIS ITEM BY USING AN OPEN CUT EXCAVATION FOR THE PIPE SPECIFIED AS 24" CONDUIT, TYPE B, AS PER PLAN, 748.01.

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 ARE INSTALLED AT A DEPTH GREATER THAN 20'.

THE SANITARY PIPE IS TO BE DUCTILE IRON PIPE, ANSI A-21.51, CLASS 52 (AWWA C-151). THE SANITARY PIPE SHALL BE CONCRETE ENCASED. THE CONCRETE ENCASEMENT SHALL AT A MINIMUM BE 9-INCHES AROUND THE FULL PERIMETER OF THE PIPE. PER ODOT CMS ITEM 499 - CLASS QC 1, THE CONTRACTOR SHALL UTILIZE 4,000 PSI COMPRESSIVE STRENGTH CONCRETE.

ITEM 611 - MANHOLE MISC.: MANHOLE ADJUSTED TO GRADE WITH BOLTED COVER

INCLUDE THE COSTS TO FURNISH AND INSTALL AN ADJUSTED TO GRADE MANHOLE ACCORDING TO ODOT CMS 611, EXCEPT PROVIDE A BOLTED DOWN COVER, IN THE UNIT PRICE BID PER EACH FOR ITEM 611 – MANHOLE MISC.: MANHOLE ADJUSTED TO GRADE WITH BOLTED COVER.

FURNISH A BOLTED DOWN COVER MEETING THE FOLLOWING REQUIREMENTS:

- *FOUR (4) EQUALLY SPACED HALF-INCH (1/2") STAINLESS STEEL HEX CAP SCREWS CONFORMING TO ASTM F-593, ALLOY GROUP 1.*
- *PROVIDE COUNTERSINKS, HOLES, THREADING, AND PLACEMENT IN ACCORDANCE WITH THE CASTING MANUFACTURER'S RECOMMENDATIONS AND METHODS.*
- *TIGHTEN BOLTS ACCORDING TO MANUFACTURER'S TORQUE SPECIFICATIONS.*

THE NEORSD WILL PROVIDE MCGUARD BOLTS (APPROX. 2 PER CASTING) TO UTILIZE AT LOCATIONS SZ-20, SZ-25, SZ-26A, SZ-34.

ITEM 611 - MANHOLE MISC.: MANHOLE RECONSTRUCTED TO GRADE WITH BOLTED COVER

INCLUDE THE COSTS TO FURNISH AND INSTALL A RECONSTRUCTED TO GRADE MANHOLE ACCORDING TO ODOT CMS 611, EXCEPT PROVIDE A BOLTED DOWN COVER, IN THE UNIT PRICE BID PER EACH FOR ITEM 611 – MANHOLE MISC.: MANHOLE RECONSTRUCTED TO GRADE WITH BOLTED COVER.

FURNISH A BOLTED DOWN COVER MEETING THE FOLLOWING REQUIREMENTS:

- *FOUR (4) EQUALLY SPACED HALF-INCH (1/2") STAINLESS STEEL HEX CAP SCREWS CONFORMING TO ASTM F-593, ALLOY GROUP 1.*
- *PROVIDE COUNTERSINKS, HOLES, THREADING, AND PLACEMENT IN ACCORDANCE WITH THE CASTING MANUFACTURER'S RECOMMENDATIONS AND METHODS.*
- *TIGHTEN BOLTS ACCORDING TO MANUFACTURER'S TORQUE SPECIFICATIONS.*

THE NEORSD WILL PROVIDE MCGUARD BOLTS (APPROX. 2 PER CASTING) TO UTILIZE AT LOCATIONS SZ-2, SZ-9, SZ-11, SZ-18, SZ-21, SZ-26.

FOR LOCATIONS SZ-2, SZ-9, SZ-18, AND SZ-21, THE LOCATION OF THE CASTING SHALL BE RECONFIGURED TO BE AS FAR FROM THE PROPOSED TRAVELED LANE AS POSSIBLE WITHIN THE FOOTPRINT OF THE EXISTING STRUCTURE.

SANITARY MANHOLES WITHIN PAVEMENT

WHERE THE PLANS INDICATE THAT A MANHOLE BE ADJUSTED OR RECONSTRUCTED WITHIN THE PAVEMENT LIMITS, EXCLUDING MANHOLES INDICATED FOR BOLTED LIDS, THE TOP OF CASTING ELEVATION SHALL BE SET AT THE TOP OF THE COMPACTED ITEM 304 - AGGREGATE BASE. THE LID SHALL BE SOLID WITHOUT HOLES. ONCE EACH MANHOLE IS SET IN PLACE AND PRIOR TO PAVING, A LICENSED SURVEYOR SHALL SURVEY THE CENTER OF THE LID OF EACH BURIED MANHOLE AND FURNISH THE GPS COORDINATES (EASTING, NORTHING) TO THE ENGINEER.

PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK DESCRIBED ABOVE AND WILL BE MADE AT THE UNIT PRICE BID FOR ITEM 611 - MANHOLE, MISC.: MANHOLE ADJUSTED TO GRADE, BURIED MANHOLES OR ITEM 611 - MANHOLE, MISC.: MANHOLE RECONSTRUCTED TO GRADE, BURIED MANHOLES.

THE FOLLOWING IS A LIST OF LOCATIONS WHERE BURIED MANHOLES ARE PROPOSED. STATION/OFFSETS SHOWN ARE TO THE CENTER OF THE MANHOLE LID. DESIGN ELEVATIONS AND GPS COORDINATES ARE PROVIDED FOR REFERENCE. CONTRACTOR SHALL FIELD VERIFY THE PROVIDED DATA, AND SUBMIT ANY ADJUSTMENTS USING THE BLANK TABLE BELOW TO THE ENGINEER.

COORDINATES OF SANITARY OR COMBINED SEWER STRUCTURE CASTINGS BURIED IN ASPHALT

STRUCTURE	ALIGNMENT	STATION	OFFSET	SIDE	RIM ELEVATION	NORTHING (Y)	EASTING (X)	RIM ELEVATION	NORTHING (Y)	EASTING (X)
SZ-3	I-77	111+12.50	38.30	LT	675.06	649940.310'	2200169.571'			
SZ-13	I-77	111+81.63	37.85	LT	674.05	650002.521'	2200138.282'			
SZ-14	I-77	111+89.60	15.23	RT	672.85	650033.188'	2200182.405'			
SZ-15	I-77	112+97.42	37.54	LT	672.36	650107.586'	2200087.449'			
*SZ-17	I-77	113+39.12	24.43	RT	670.36	650167.751'	2200126.523'			
SZ-30	I-77	190+77.11	88.10	RT	670.30	657772.256'	2199099.588'			

**PRIOR TO BURIAL, COORDINATE WITH NEORSD FOR INSPECTION OF SZ-17.*

REF NO.	SHEET NO.	STATION TO STATION					ALIGNMENT	EXISTING RIM ELEVATION (FT)	PROPOSED RIM ELEVATION (FT)	202 PIPE REMOVED, 24" AND UNDER	202 MANHOLE REMOVED	202 MANHOLE ABANDONED	611 24" CONDUIT, TYPE B, AS PER PLAN, 748.01	611 MANHOLE, NO. 3	611 MANHOLE ADJUSTED TO GRADE	611 MANHOLE RECONSTRUCTED TO GRADE	611 MANHOLE, MISC.: MANHOLE ADJUSTED TO GRADE WITH BOLTED COVER	611 MANHOLE, MISC.: MANHOLE RECONSTRUCTED TO GRADE WITH BOLTED COVER	611 MANHOLE, MISC.: MANHOLE ADJUSTED TO GRADE, BURIED MANHOLES	611 MANHOLE, MISC.: MANHOLE RECONSTRUCTED TO GRADE, BURIED MANHOLES
										FT	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH
SZ-2	P.762	109+02.81	RT				CLP_I077	677.58	675.72									1		
SZ-3	P.762	111+12.50	LT				CLP_I077	676.67	675.06											1
SZ-4	P.762	111+17.49	LT				CLP_I077	679.48	678.78						1					
SZ-5	P.762	111+31.57	RT				CLP_I077	682.25	682.28						1					
SZ-6	P.762	111+42.99	LT				CLP_I077	678.74	677.69							1				
SZ-7	P.762	111+54.13	LT				CLP_I077	679.02	677.78							1				
SZ-10	P.762	111+62.04	LT				CLP_I077	679.39	678.02							1				
SZ-8	P.762	111+63.08	RT				CLP_I077	677.20	676.24						1					
SZ-11	P.762	111+65.58	LT				CLP_I077	676.67	675.59									1		
SZ-9	P.762	111+65.67	RT				CLP_I077	674.35	672.00									1		
SZ-13	P.762	111+81.63	LT				CLP_I077	675.85	674.05											1
SZ-14	P.762	111+89.60	RT				CLP_I077	673.25	672.85										1	
SZ-15	P.763	112+97.42	LT				CLP_I077	674.38	672.36											1
SZ-16	P.763	113+28.21	LT				CLP_I077	685.56	685.56						1					
SZ-17	P.763	113+39.12	RT				CLP_I077	672.75	670.36											1
SZ-18	P.763	113+39.57	RT				CLP_I077	672.11	670.40									1		
SZ-19	P.764	119+71.88	LT				CLP_I077	641.63	635.98							1				
SZ-20	P.765	126+48.25	LT				CLP_I077	653.22	652.62								1			
SZ-21	P.766	131+45.98	RT				CLP_I077	648.05	649.84									1		
SZ-24	P.767	135+15.63	LT				CLP_I077	631.31	632.30						1					
SZ-25	P.770	148+39.66	LT				CLP_I077	685.26	685.34								1			
SZ-26	P.772	157+39.35	RT				CLP_I077	680.81	682.57									1		
SZ-26A	P.773	165+64.87	RT				CLP_I077	677.30	677.23								1			
S-9	P.774	170+80.15	RT				CLP_I077					1								
S-10	P.776	179+60.51	LT				CLP_I077					1								
S8	P.776	179+60.51	LT	TO	180+27.52	LT	CLP_I077			74										
S-11	P.777	184+86.33	LT				CLP_I077					1								
S-12	P.777	185+66.50	LT				CLP_I077					1								
SZ-30	P.778	190+77.11	RT				CLP_I077	670.37	670.30										1	
SZ-33	P.779	193+21.39	LT				CLP_I077	676.45	670.60							1				
SZ-34	P.784	218+73.97	LT				CLP_I077	654.43	654.47								1			
S3	P.1016	74+94.54	RT	TO	74+94.69	LT	CLP_I077						169	1						
S4	P.1016	74+94.54	RT	TO	75+26.29	RT	CLP_I077						33	1						
S2	P.1016	74+94.69	LT	TO	75+29.02	LT	CLP_I077						35	1						
S5	P.1016	75+10.64	RT	TO	75+26.29	RT	CLP_I077			47										
S6	P.1016	75+10.64	RT	TO	75+39.99	LT	CLP_I077			101	1									
S1	P.1016	75+29.02	LT	TO	75+44.11	LT	CLP_I077						42	1						
S7	P.1016	75+39.99	LT	TO	76+40.87	LT	CLP_I077			161	1									
TOTALS CARRIED TO GENERAL SUMMARY										383	2	4	279	4	5	5	4	6	2	4

SANITARY NOTES AND SUB-SUMMARY

DESIGN AGENCY
AECOM

DESIGNER
MAW

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.1015 | TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 11:03:50 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DN017.dgn

WATERWORK

ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT, WATER MAIN

THIS ITEM SHALL ALSO FOLLOW THE CITY OF CLEVELAND WATER DEPARTMENT STANDARDS.

THIS ITEM SHALL CONSIST OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING CONDUIT AND FILLING THE AREA THUS SEALED OFF WITH ITEM 613, SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER.

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

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

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

ITEM 638 - 12" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, BOLTLESS-RESTRAINED JOINTS AND FITTINGS, AS PER PLAN

ALL WORK SHALL COMPLY WITH CMS ITEM 638 EXCEPT AS MODIFIED HERE:

ALL PIPE FURNISHED OR USED UNDER THIS ITEM SHALL BE CLASS 52 DUCTILE IRON PIPE (CEMENT LINED) AND BE TESTED FOR LEAKAGE AND BACTERIA AS REQUIRED BY THE SPECIFICATIONS AND THE EPA.

RESTRAINED MECHANICAL JOINTS AND FITTINGS SHALL BE USED AT ALL LOCATIONS OF TEES, HYDRANTS, VALVES, AND BENDS AND SHALL BE COMPLIANT WITH CLEVELAND WATER DEPARTMENT STANDARDS FOR RESTRAINED MECHANICAL JOINTS AND FITTINGS.

BOLTLESS-RESTRAINED JOINTS AND FITTINGS SHALL BE USED WHEN ABRUPT CHANGE IN THE GRADE IS NECESSARY TO AVOID EXISTING UTILITIES OR OTHER OBSTRUCTIONS. SUITABLE FITTINGS SHALL BE USED UNLESS OTHERWISE SPECIFIED, TO SECURE AN EASY FLOW OF LIQUID AND TO PROVIDE SUFFICIENT COVER UNDER OBSTRUCTIONS. PIPES AND FITTINGS SHALL BE COMPLIANT WITH THE CITY OF CLEVELAND WATER DEPARTMENT STANDARDS.

LOWERINGS SHALL BE SO LOCATED TO MAINTAIN A MINIMUM CLEARANCE OF 18 INCHES IN ALL DIRECTIONS WITH RESPECT TO OTHER UTILITIES, MEASURE FROM OUTSIDE TO OUTSIDE PIPE WALLS.

THIS ITEM SHALL INCLUDE ALL NECESSARY EXPLORATION, EXCAVATION, EMBANKMENTS, UTILITY COORDINATION/PROTECTION/REPLACEMENT, DEWATERING, SHEETING, PREPARATION OF TRENCH BOTTOM, ROCK EXCAVATION, JOINT RESTRAINT, DISINFECTION, BEDDING, BACKFILL OF THE TYPE REQUIRED BY THE PLANS AND SPECIFICATIONS, TESTING, ALL FLUSHING WATER, DISINFECTION, TESTING, CHLORINATION PITS, CLEANING UP AND ALL OTHER EXPENSES WHETHER SPECIFICALLY MENTIONED OR NOT TO COMPLY WITH THE STANDARD DETAILS OF C.W.D. AND TO PROVIDE A USABLE WATER MAIN.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR FOOT OF PIPE INSTALLED AS MEASURED THROUGH FITTINGS AND VALVES FROM CENTER TO CENTER OF FITTINGS AND VALVES ALONG THE CENTERLINE OF THE WATER MAIN, COMPLETE, TESTED, DISINFECTED, AND READY FOR SERVICE.

ITEM 638 - 12" GATE VALVE AND VALVE BOX, AS PER PLAN
ITEM 638 - 12" CUTTING-IN SLEEVE, VALVE AND VALVE BOX, AS PER PLAN

ALL WORK SHALL COMPLY WITH CMS ITEM 638 EXCEPT AS MODIFIED HERE:

THESE ITEMS SHALL ALSO FOLLOW THE CITY OF CLEVELAND WATER DEPARTMENT STANDARDS.

THIS ITEM SHALL INCLUDE ALL NECESSARY EXCAVATION; EMBANKMENT; DEWATERING; SHEETING; PREPARATION OF TRENCH BOTTOM; ROCK EXCAVATION; VALVE; VALVE BOX; JOINT MATERIAL; BLOCKING; ANODE CAPS; ADJUSTMENT; BEDDING; BACKFILL; TESTING; DISPOSAL OF WASTE AND ALL OTHER EXPENSES WHETHER SPECIFICALLY MENTIONED OR NOT, FOR THE INSTALLATION OF 12" GATE VALVES AND VALVE BOXES AND 12" CUT-IN-VALVES AND VALVE BOXES.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR EACH GATE VALVE ASSEMBLY INSTALLED COMPLETE, TESTED, DISINFECTED, AND READY FOR SERVICE.

ITEM 638 - WATER WORK, MISC.: 36" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, BOLTLESS RESTRAINED JOINTS AND FITTINGS

ALL WORK SHALL COMPLY WITH CMS ITEM 638 EXCEPT AS MODIFIED HERE:

ALL PIPE FURNISHED OR USED UNDER THIS ITEM SHALL BE CLASS 52 DUCTILE IRON PIPE (CEMENT LINED) AND BE TESTED FOR LEAKAGE AND BACTERIA AS REQUIRED BY THE SPECIFICATIONS AND THE EPA.

RESTRAINED MECHANICAL JOINTS AND FITTINGS SHALL BE USED AT ALL LOCATIONS OF TEES, HYDRANTS, VALVES, AND BENDS AND SHALL BE COMPLIANT WITH CLEVELAND WATER DEPARTMENT STANDARDS FOR RESTRAINED MECHANICAL JOINTS AND FITTINGS.

BOLTLESS-RESTRAINED JOINTS AND FITTINGS SHALL BE USED WHEN ABRUPT CHANGE IN THE GRADE IS NECESSARY TO AVOID EXISTING UTILITIES OR OTHER OBSTRUCTIONS. SUITABLE FITTINGS SHALL BE USED UNLESS OTHERWISE SPECIFIED, TO SECURE AN EASY FLOW OF LIQUID AND TO PROVIDE SUFFICIENT COVER UNDER OBSTRUCTIONS. PIPES AND FITTINGS SHALL BE COMPLIANT WITH THE CITY OF CLEVELAND WATER DEPARTMENT STANDARDS.

LOWERINGS SHALL BE SO LOCATED TO MAINTAIN A MINIMUM CLEARANCE OF 18 INCHES IN ALL DIRECTIONS WITH RESPECT TO OTHER UTILITIES, MEASURE FROM OUTSIDE TO OUTSIDE PIPE WALLS.

THIS ITEM SHALL INCLUDE ALL NECESSARY EXPLORATION, EXCAVATION, EMBANKMENTS, UTILITY COORDINATION/PROTECTION/REPLACEMENT, DEWATERING, SHEETING, PREPARATION OF TRENCH BOTTOM, ROCK EXCAVATION, JOINT RESTRAINT, DISINFECTION, BEDDING, BACKFILL OF THE TYPE REQUIRED BY THE PLANS AND SPECIFICATIONS, TESTING, ALL FLUSHING WATER, DISINFECTION, TESTING, CHLORINATION PITS, CLEANING UP AND ALL OTHER EXPENSES WHETHER SPECIFICALLY MENTIONED OR NOT TO COMPLY WITH THE STANDARD DETAILS OF C.W.D. AND TO PROVIDE A USABLE WATER MAIN.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR FOOT OF PIPE INSTALLED AS MEASURED THROUGH FITTINGS AND VALVES FROM CENTER TO CENTER OF FITTINGS AND VALVES ALONG THE CENTERLINE OF THE WATER MAIN, COMPLETE, TESTED, DISINFECTED, AND READY FOR SERVICE.

ITEM 638 - WATER WORK, MISC.: 4" DRAIN ASSEMBLY

ALL WORK SHALL COMPLY WITH CMS ITEM 638 AND CLEVELAND DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAILS FOR DRAIN ASSEMBLY DETAILS/OUTLET/DRAIN/VAULT DETAILS IN SM-STD7 SHOWN ON P. 1028.

THIS ITEM SHALL INCLUDE ALL COSTS ASSOCIATED WITH THE GENERATION, DELIVERY AND ACCEPTANCE OF THE DRAIN ASSEMBLY WATER WORK COMPLETED WITH THIS PROJECT.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR EACH DRAIN ASSEMBLY INSTALLED COMPLETE, TESTED, DISINFECTED, AND READY FOR SERVICE.

ITEM SPECIAL - 20" STEEL PIPE ENCASEMENT, BORED OR JACKED, CWD

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.

20" STEEL PIPE ENCASEMENT DESIGNATED FOR INSTALLATION SHALL BE IN ACCORDANCE WITH THE CITY OF CLEVELAND WATER DEPARTMENT STANDARDS. PAYMENT FOR THIS WORK SHALL BE MADE AT THE UNIT PRICE BID PER FOOT, WHICH CONSTITUTES FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS TO COMPLETE THE WORK AT THE LOCATIONS SHOWN IN THE DRAWINGS.

ITEM SPECIAL - 56" STEEL PIPE ENCASEMENT, BORED OR JACKED, CWD

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.

56" STEEL PIPE ENCASEMENT DESIGNATED FOR INSTALLATION SHALL BE IN ACCORDANCE WITH THE CITY OF CLEVELAND WATER DEPARTMENT STANDARDS. PAYMENT FOR THIS WORK SHALL BE MADE AT THE UNIT PRICE BID PER FOOT, WHICH CONSTITUTES FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS TO COMPLETE THE WORK AT THE LOCATIONS SHOWN IN THE DRAWINGS.

ITEM 638 - WATER WORK, MISC.: POTHOLING

POTHOLING SHALL BE UTILIZED AS DIRECTED BY THE ENGINEER PRIOR TO COMMENCEMENT OF ANY INSTALLATION OF THE PROPOSED WATER MAINS. THE INTENT OF THIS ITEM OF WORK IS TO LOCATE EXISTING UTILITIES AS WELL AS PREVENT EXCAVATION DAMAGE TO UNDERGROUND UTILITIES THAT ARE TO REMAIN.

THE RANGE IN DEPTH FOR POTHOLING SHALL BE FROM 8 FEET TO A MAXIMUM DEPTH OF 12 FEET.

ALLOWABLE POTHOLING METHODS INCLUDE VACUUM EXCAVATION AND HAND DIGGING. THE USE OF A BACKHOE IS NOT THE PREFERRED METHOD FOR THE PROPOSED POTHOLING. HOWEVER, IF A BACKHOE IS UTILIZED, IT IS ESSENTIAL THAT A SPOTTER BE PRESENT FOR THE ENTIRE EXCAVATION. THE CONTRACTOR SHALL ANTICIPATE THE NECESSITY OF HAND DIGGING.

THE CONTRACTOR IS REQUIRED TO COORDINATE WITH OUPS PRIOR TO ANY EXCAVATION ACTIVITY. FACILITY OWNERS THAT DO NOT PARTICIPATE WITH OUPS SHALL ALSO BE CONTACTED BY THE CONTRACTOR.

ONCE EXISTING UTILITIES ARE EXPOSED, RECORD THE HORIZONTAL AND VERTICAL POSITIONS AS WELL AS THE DEPTH BELOW THE SURFACE OF THE SURROUNDING PAVEMENT. THESE DIMENSIONS MUST BE INCLUDED IN THE AS-BUILT DRAWING PACKAGE REQUIRED FOR THE WATER WORK HEREIN. MEASUREMENTS SHALL BE TIED INTO A SURVEY BENCHMARK, AND SURVEY COORDINATES PROVIDED.

ONCE THE UTILITY HAS BEEN LOCATED, A POWERED SAW MAY BE USED TO CUT THROUGH EXISTING PAVEMENT. HEAVY EQUIPMENT MAY BE USED TO DIG WITHIN 3 FEET OF THE UTILITY'S LOCATION, OR AS REQUIRED PER THE RESPECTIVE UTILITY'S TOLERANCE ZONE. HEAVY EQUIPMENT MAY ALSO BE USED TO DIG UP TO CONCRETE ENCASEMENT OF A DUCT BANK ONCE EDGES ARE ESTABLISHED BY POTHOLING.

UTILITIES EXPOSED BY POTHOLING MUST BE PROTECTED THROUGHOUT THE PROJECT DURATION; AS NECESSARY, PLACE TEMPORARY SUPPORT OR SHORING TO SUPPORT SO THAT EXPOSED UTILITIES DO NOT SHIFT OR SAG WHEN THE SOIL THAT WAS SUPPORTING AND PROTECTING THEM IS REMOVED; AND/OR PLACE A BARRIER THAT PROTECTS EXPOSED UTILITIES FROM HEAVY AND SHARP ITEMS THAT COULD FALL INTO THE EXCAVATION.

ONCE THE UNDERGROUND UTILITY IS LOCATED, THE POTHOLE SHOULD BE MANAGED IN THE SAME MANNER AS ANY OTHER OPEN EXCAVATION TO PREVENT WORKER FALLS AND DAMAGE TO ANY EXPOSED UTILITIES: PLACE BARRICADES, TRAFFIC PLATES, OR OTHER MEASURES UNTIL BACKFILL AND RESTORATION IS CARRIED OUT. BACKFILLING AND THE RESTORATION OF PAVEMENT OR SURFACING MUST BE IN ACCORDANCE WITH THE DETAILS PROVIDED HEREIN. BACKFILL WILL BE INCLUDED FOR PAYMENT UNDER THIS ITEM OF WORK. PAVEMENT RESTORATION WILL BE PAID FOR UNDER THE RESPECTIVE CMS ITEMS OF WORK PROVIDED HEREIN.

AFTER THE UNDERGROUND UTILITY HAS BEEN LOCATED, THE POTHOLE SHOULD BE RESTORED WITHIN 24 HOURS OR AS OTHERWISE DIRECTED. APPROPRIATE SEDIMENT CONTROLS SHOULD BE UTILIZED DURING ALL POTHOLING ACTIVITIES TO PREVENT STORM WATER POLLUTION. THE POTHOLE SHOULD BE CLEAN AND DRY PRIOR TO BACKFILLING.

DRILLING MUD OR REMAINING SPOIL SHOULD BE CLEANED UP AND THE AREA RESTORED TO ORIGINAL CONDITION OR BETTER. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF ANY DRILLING MUD OR REMAINING SPOIL IN AN ENVIRONMENTALLY SUITABLE MANNER.

PAYMENT FOR THE WORK DESCRIBED HEREIN SHALL BE MADE AT THE BID UNIT PRICE PER EACH FOR "ITEM 638 - WATER WORK, MISC.: POTHOLING" WHICH PRICE SHALL CONSTITUTE FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK, INCLUDING PROFESSIONAL SURVEY LOCATION SERVICES, DISPOSAL OF ANY SPOILS, EXCAVATION, PREMIUM BACKFILL AND TRAFFIC CONTROL. PAVEMENT RESTORATION WILL BE PAID FOR UNDER RESPECTIVE BID ITEMS HEREIN.

ITEM 638 - WATER WORK, MISC.: CHLORINATION PIT

ALL APPLICABLE PROVISIONS OF ITEM 638 SHALL APPLY EXCEPT AS MODIFIED HEREIN:

CHLORINATION PIT SHALL FOLLOW THE CITY OF CLEVELAND WATER DEPARTMENT STANDARDS FOR INSTALLING AND DISINFECTING WATER MAIN PIPES.

PAYMENT SHALL BE MADE PER EACH CHLORINATION PIT WHICH INCLUDES ALL MATERIAL, EQUIPMENT, AND INCIDENTALS NECESSARY FOR THE WORK ITEMS.

CLEVELAND WATER DEPARTMENT FEES AND CHARGES
ITEM 638 - WATER WORK, MISC.: CITY OF CLEVELAND AND WATER DEPARTMENT CHARGES

1. PERMITS, INSPECTIONS AND FEES REQUIRED BY THE CITY OF CLEVELAND WATER DEPARTMENT (CWD) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AND MEET COMPLIANCE INCLUDING WATER MAIN LOWERING FEES AND INSPECTION FEES. THE COST OF THESE FEES WILL BE APPROXIMATELY $15,000. THE CONTRACTOR SHALL VERIFY ALL COSTS. ALL INVOICES FROM THE CLEVELAND WATER DEPARTMENT SHALL BE SUBMITTED TO THE OHIO DEPARTMENT OF TRANSPORTATION WITHOUT ANY MARK-UP. THIS WILL BE A DIRECT REIMBURSEMENT ONLY AND ANY BALANCE DUE OR BALANCE REMAINING SHALL BE ADJUSTED BY CHANGE ORDER.

2. ALL TESTING AND CHLORINATION REQUIRED BY ODOT CMS AND CWD FOR THE APPLICABLE ITEMS UNDER THIS CONTRACT SHALL BE ENFORCED, AND ALL COSTS SHALL BE INCLUDED IN THE PRICE BID FOR THE ITEM TO WHICH IT RELATES.

3. A TWO-YEAR WARRANTY, COMMENCING FROM THE DATE OF ACCEPTANCE OF THE FINAL CHLORINATOIN OF THE WATER MAIN INSTALLATION SHALL BE PROVIDED BY THE CONTRACTOR FOR ALL WATER MAINS AND SERVICE CONNECTION WORK PERFORMED, INCLUDING TAPS IF PERFORMED. SHOULD ANY LEAKS OCCUR AND REPAIRS BE REQUIRED DUE TO DEFECTIVE MATERIAL OR POOR WORKMANSHIP. A LETTER INDICATING THE COMMENCEMENT DATE AND END DATE OF THE WARRANTY SHALL BE INCLUDED WITH THE AS-BUILT SUBMISSION.

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

ITEM 638 - WATER WORK, MISC.: CITY OF CLEVELAND WATER DEPARTMENT CHARGES 15,000 EACH

ITEM 638 - WATER WORK, MISC.: AS-BUILT DRAWINGS

THIS ITEM SHALL INCLUDE ALL COSTS ASSOCIATED WITH THE GENERATION, DELIVERY AND ACCEPTANCE OF AS-BUILT DRAWINGS FOR THE WATER WORK COMPLETED WITH THIS PROJECT. PRIOR TO PRESSURE TESTING AND CHLORINATION OF THE MAIN, THE CONTRACTOR SHALL SUBMIT TWO (2) COPIES OF THE RECORD (AS-BUILT) PRINTS TO THE CITY OF CLEVELAND DIVISION OF WATER FOR ACCEPTANCE. THESE DRAWINGS SHALL INCLUDE THE EXACT LOCATION OF ALL NEW VALVES, METERS, REGULATORS AND HYDRANTS INSTALLED. THE DATE OF VALVE, METER, REGULATOR AND HYDRANT INSTALLATION SHALL BE INDICATED ON THE DRAWINGS. THE DRAWINGS SHALL SHOW THE EXACT LIMITS OF THE PIPE THAT WAS INSTALLED. ALL EXCAVATIONS SHALL BE RECORDED WITH LOCATION AND DIMENSIONS, DATE OPENED, DATE BACKFILLED, AND DATE PAVED SHALL BE SHOWN ON THE AS-BUILTS. A CURRENTLY REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF OHIO SHALL SEAL THE DRAWINGS. AS-BUILTS WILL BE REQUIRED PRIOR TO DISINFECTING THE WATER MAIN.

ALL WORK REQUIRED SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR "AS-BUILT DRAWINGS".

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

ITEM 638 - WATER WORK, MISC.: AS-BUILT DRAWINGS LS

WATER WORK NOTES

DESIGN AGENCY
AECOM

DESIGNER
MAW

REVIEWER
AKM 05/01/26

PROJECT ID
105743

SHEET P.1017 TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 11:08:08 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: sydney.stefanek@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Drainage\Sheets\105743_DN018.dgn

LIGHTING

LIGHTING GENERAL NOTES ARE SUPPLEMENTAL TO ITEMS 625 AND 725 OF THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) CONSTRUCTION AND MATERIAL SPECIFICATIONS, (CMS) DATED JANUARY 1, 2023, WHICH SHALL GOVERN ALL WORK OF THIS PROJECT, EXCEPT AS HEREINAFTER MODIFIED.

625, POWER SERVICE, AS PER PLAN

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

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

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

POWER SERVICE FOR OHIO FACILITY LIGHTING: 240/480 VOLT 3-WIRE, SINGLE PHASE.
POWER SERVICE FOR CITY OF CLEVELAND UNDERPASS FACILITY LIGHTING: 120/240 VOLT 3-WIRE, SINGLE PHASE.

ALL POWER SERVICES SHALL BE METERED. THE METER BASE MOUNTING HEIGHT SHALL BE NO MORE THAN FIVE (5) FEET HIGH TO THE CENTER OF THE METER BASE FROM THE GROUND. A NON-FUSED DISCONNECT SHALL BE INSTALLED ON THE POWER SIDE OF THE METER BASE. THE CONTRACTOR SHALL SUPPLY THE NECESSARY METER BASES AND DISCONNECTS.

THE PROPOSED PHOTOCELL SHOULD BE PLACED 1'-2' ABOVE THE LIGHTING CONTROL CENTER (LCC) ENCLOSURE.

THE CONCRETE WORK PAD IS INCLUDED IN THIS PAY ITEM.

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

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

PADLOCKS AND KEYS

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

CONDUIT EXPANSION AND DEFLECTION

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

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

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

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

625, LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (IES-II, LED, 480V, 13,400-15,000 LUMENS)

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LUMINAIRES FOR CONVENTIONAL LIGHTING UNITS SHALL BE AS FOLLOWS:

LUMINAIRES FOR CONVENTIONAL LIGHTING UNITS WITH AN IES TYPE II DISTRIBUTION SHALL BE

COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON) WITH PHOTOMETRIC DISTRIBUTION VERD-CA2-100-730-U-T2, TWO LAMPS, 13,612 LUMENS OUTPUT.

AMERICAN ELECTRIC LIGHTING WITH PHOTOMETRIC DISTRIBUTION ATBM P30 XXXXX R2 3K, 14,637 LUMENS OUTPUT.

GE LIGHTING SOLUTIONS WITH PHOTOMETRIC DISTRIBUTION ERL1_14B530, 13,400 LUMENS OUTPUT.

OR EQUAL AS APPROVED BY THE ENGINEER.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH CMS ITEM 625, "LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (IES-II, LED, 480V, 13,400-15,000 LUMENS)" FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

625, LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN (IES-V, LED, 480V, 43,600-51,000 LUMENS)

THE LUMINAIRES SHALL BE AS SPECIFIED FOR LOW-MAST LUMINAIRES IN CMS 725.11 EXCEPT THAT THE LUMINAIRE ARRAYS AND ASSOCIATED ILLUMINATION TEST AREAS ARE HEREBY WAIVED. IN ADDITION, THE LUMINAIRES FOR LOW-MAST LIGHTING SHALL MEET THE FOLLOWING REQUIREMENTS:

LUMINAIRES FOR LOW-MAST LIGHTING UNITS WITH SYMMETRIC DISTRIBUTION SHALL BE

COOPER "CELESTEON" WITH PHOTOMETRIC DISTRIBUTION CST-CA10-310-730-U-T5R, TEN LAMPS, 50,920 LUMENS OUTPUT.

HOLOPHANE "HMLED4" WITH PHOTOMETRIC DISTRIBUTION HMLED4 P2 30K XXXXX AW, 43,659 LUMENS OUTPUT.

GE LIGHTING SOLUTIONS EVOLVE WITH PHOTOMETRIC DISTRIBUTION ERHM03_50VW730, 50,301 LUMENS OUTPUT.

OR EQUAL AS APPROVED BY THE ENGINEER.

IN ADDITION, OTHER LUMINAIRES WILL BE CONSIDERED IF THE DESIGNED INTENSITY AND UNIFORMITY ARE PROVIDED USING THE DESIGNED POLE LOCATIONS AND THE DESIGNED NUMBER AND TYPE OF FIXTURES PER POLE.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH CMS ITEM 625, "LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN (IES-V, LED, 480V, 43,600-51,000 LUMENS)" FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

625, LIGHT POLE ANCHOR BOLTS, MISC.: MEDIAN MOUNTED ALM41.25

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

PAYMENT WILL BE MADE AT EACH SUCH POLE LOCATION AT THE UNIT PRICE BID FOR EACH CMS ITEM 625, "LIGHT POLE ANCHOR BOLTS, MISC.: MEDIAN MOUNTED ALM50" AND SHALL BE FULL COMPENSATION FOR FURNISHING AND PLACING THE SET OF ANCHOR BOLTS REQUIRED.

625, LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN (LED, 120V, 4,000-6,900 LUMENS)

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LUMINAIRES FOR UNDERPASS LIGHTING UNITS SHALL BE AS FOLLOWS:

MORGANA RUN TRAIL

AT MORGANA RUN TRAIL, LUMINAIRES SHALL BE CEILING MOUNT.

LUMINAIRES FOR MORGANA RUN TRAIL UNDERPASS LIGHTING UNITS SHALL BE

HOLOPHANE - TUNNELPASS LED WITH PHOTOMETRIC DISTRIBUTION TNLEDMED PK1 30K XXXXX CLN, 6,336 LUMENS OUTPUT.

GE - EVOLVE WITH PHOTOMETRIC DISTRIBUTION ECLP01_B5SM730_____-120-277V, 6,900 LUMENS OUTPUT.

COOPER LIGHTING SOLUTIONS - GALLEON GWC WITH PHOTOMETRIC DISTRIBUTION GWC-AF-01-LED-E1-5MQ-7030, 16 LAMPS, 6,464 LUMENS OUTPUT.

OR EQUAL AS APPROVED BY THE ENGINEER.

RUFFINI CT

AT RUFFINI CT, LUMINAIRES SHALL BE SIDE MOUNT.

LUMINAIRES FOR RUFFINI CT UNDERPASS LIGHTING UNITS SHALL BE

HOLOPHANE - WALLPACK LED WITH PHOTOMETRIC DISTRIBUTION WCNG P2 30K T3M, 4,027 LUMENS OUTPUT.

GE - EWAS WITH PHOTOMETRIC DISTRIBUTION EWAS01_B4AF730_____-120-277V, 4,900 LUMENS OUTPUT.

COOPER LIGHTING SOLUTIONS - GALLEON GWC WITH PHOTOMETRIC DISTRIBUTION GWC-AF-01-LED-E1-T3-7030-600, 16 LAMPS, 4,048 LUMENS OUTPUT.

OR EQUAL AS APPROVED BY THE ENGINEER.

LUMINAIRES FOR UNDERPASS LIGHTING UNIT SHALL BE FURNISHED WITH AN INTEGRAL FUSE HOLDER AND 10-AMPERE FUSES.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 625, "LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN (LED, 120V, 4,000-6,900 LUMENS)" FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

625, SERVICE TO UNDERPASS LIGHTING, AS PER PLAN

SERVICE TO UNDERPASS LIGHTING SHALL PROVIDE A COMPLETE ELECTRICAL SYSTEM FOR THE UNDERPASS LIGHTING SYSTEM, EXCEPT FOR PULL BOXES, LUMINAIRES AND POWER SERVICE. INCLUDED IN THIS INSTALLATION ARE ALL CONDUIT, STRUCTURE GROUNDING SYSTEM, MOUNTINGS, FITTINGS, SPLICE KITS, JUNCTION BOXES, CONDUCTORS, DISCONNECT SWITCHES, GROUND RODS, CABLES, VANDAL PROTECTION AND ALL INCIDENTALS NECESSARY TO COMPLETE THE INSTALLATION.

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

625, LIGHTING MISC.: ARC FLASH CALCULATIONS AND LABEL

THE CONTRACTOR SHALL SATISFY THE REQUIREMENTS OF ODOT SUPPLEMENTAL SPECIFICATION 825 FOR THE CONTROL CENTERS.

METHOD OF MEASUREMENT SHALL BE PER 825.06. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE LIGHTING SUBSUMMARY.

PS-GRA: LIGHTING MISC.: ARC FLASH CALCULATIONS AND LABEL (CUY-70/GRANT AVE)

PS-HAR: LIGHTING MISC.: ARC FLASH CALCULATIONS AND LABEL (CUY-70/HARVARD AVE)

PS-PER: LIGHTING MISC.: ARC FLASH CALCULATIONS AND LABEL (CUY-70/PERSHING AVE)

PS-MOR: LIGHTING MISC.: ARC FLASH CALCULATIONS AND LABEL (CUY-70/MORGANA RUN)

PS-RUF: LIGHTING MISC.: ARC FLASH CALCULATIONS AND LABEL (CUY-70/RUFFINI CT)

625, PULL BOX CLEANED

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

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

625, UNDERDRAINS FOR PULLBOXES

REFERENCE TRAFFIC SCD HL-30.11 FOR DETAILS ABOUT DRAINING PULLBOXES. UNDERDRAINS FOR PULLBOXES SHALL BE USED AS DIRECTED BY THE ENGINEER AND SHALL BE PROVIDED WHERE THE LENGTH REQUIRED FOR A SATISFACTORY OUTLET DOES NOT EXCEED 20 FEET. THE FOLLOWING ESTIMATED QUANTITY IS CARRIED TO THE GENERAL SUMMARY FOR THIS PURPOSE:

ITEM 611 4" CONDUIT, TYPE E.....620 FT.

DESIGN AGENCY
AECOM
DESIGNER
CX
REVIEWER
TAS 04/08/26
PROJECT ID
105743
SHEET P.1116 TOTAL P.1274

CUY-77-11.41 - PART 1
MODEL: LN001 PAPERSIZE: 34x22 (in.) DATE: 11/11/2026 TIME: 8:42:37 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: clara.xin@aecom.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Lighting\Sheets\105743_LN001.dgn

ESTIMATED QUANTITIES (CUY-77-1322)

ITEM	EXTENSION	TOTAL PART 02/IMS	UNIT	DESCRIPTION	SEE SHEET
202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	3
202	22900	260	SY	APPROACH SLAB REMOVED	
203	35120	3578	CY	GRANULAR MATERIAL, TYPE C	
503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
503	21100	1475	CY	UNCLASSIFIED EXCAVATION	
509	10000	92460	LB	EPOXY COATED STEEL REINFORCEMENT	
511	46013	76	CY	CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN	22, 25
511	46512	387	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING	
511	46612	19	CY	CLASS QC1 CONCRETE WITH QC/QA, HEADWALL	
511	47012	353	CY	CLASS QC1 CONCRETE WITH QC/QA, CULVERT	
					3
512	10101	927	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	
512	33000	414	SY	TYPE 2 WATERPROOFING	3
516	13600	400	SF	1" PREFORMED EXPANSION JOINT FILLER	
516	25001	78	SF	NYLON REINFORCED NEOPRENE SHEETING, AS PER PLAN	
518	20000	100	SY	PREFABRICATED GEOCOMPOSITE DRAIN	3, 23
518	21200	266	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
518	40000	322	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
611	71000	112	FT	CONDUIT, TYPE A, PRECAST REINFORCED CONCRETE ARCH SECTIONS (20'-0" SPAN x 10'-0" RISE)	
867	00100	LS		TEMPORARY WIRE FACED MECHANICALLY STABILIZED EARTH WALL	

ESTIMATED QUANTITIES
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN 1806573

DESIGN AGENCY TRC

DESIGNER	CHECKER
JCP	CEJ

REVIEWER CJW 11/17/25

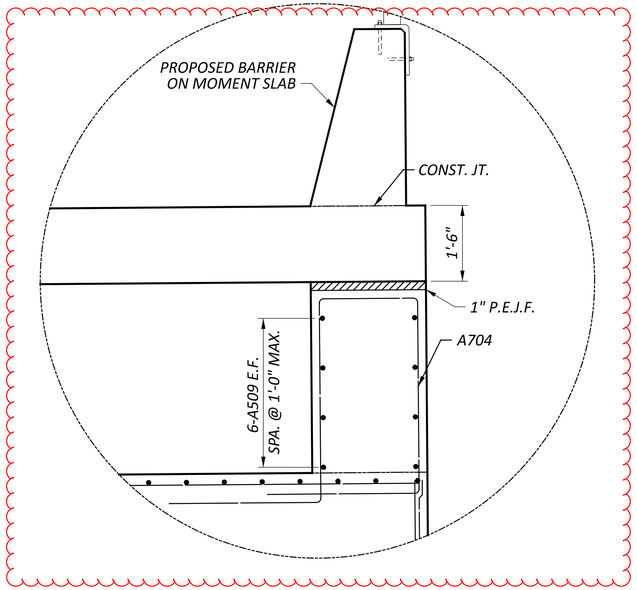
PROJECT ID 105743

SUBSET	TOTAL
4	25

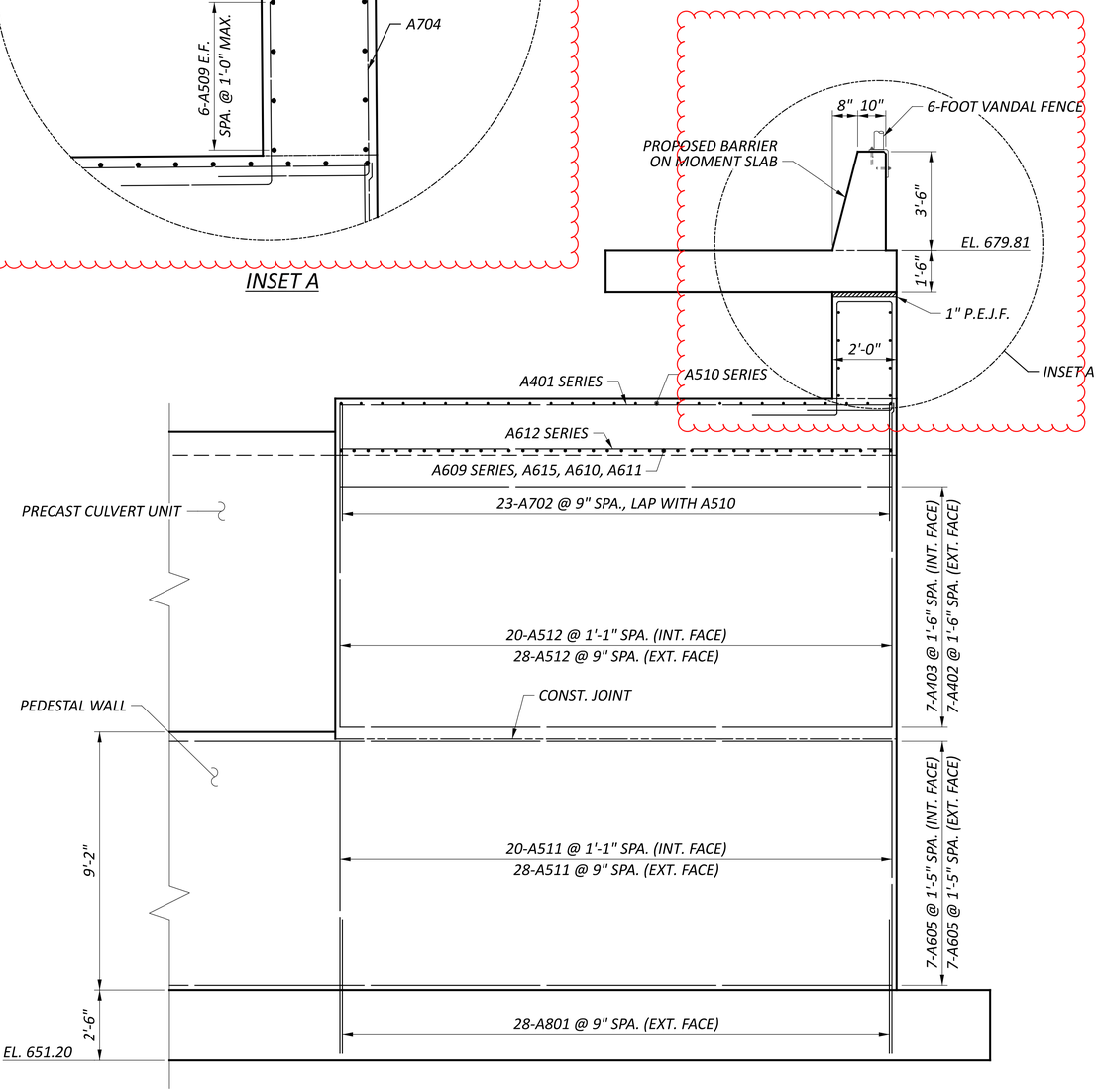
SHEET	TOTAL
P.1143	P.1274

CUY-77-11.41 - PART 1

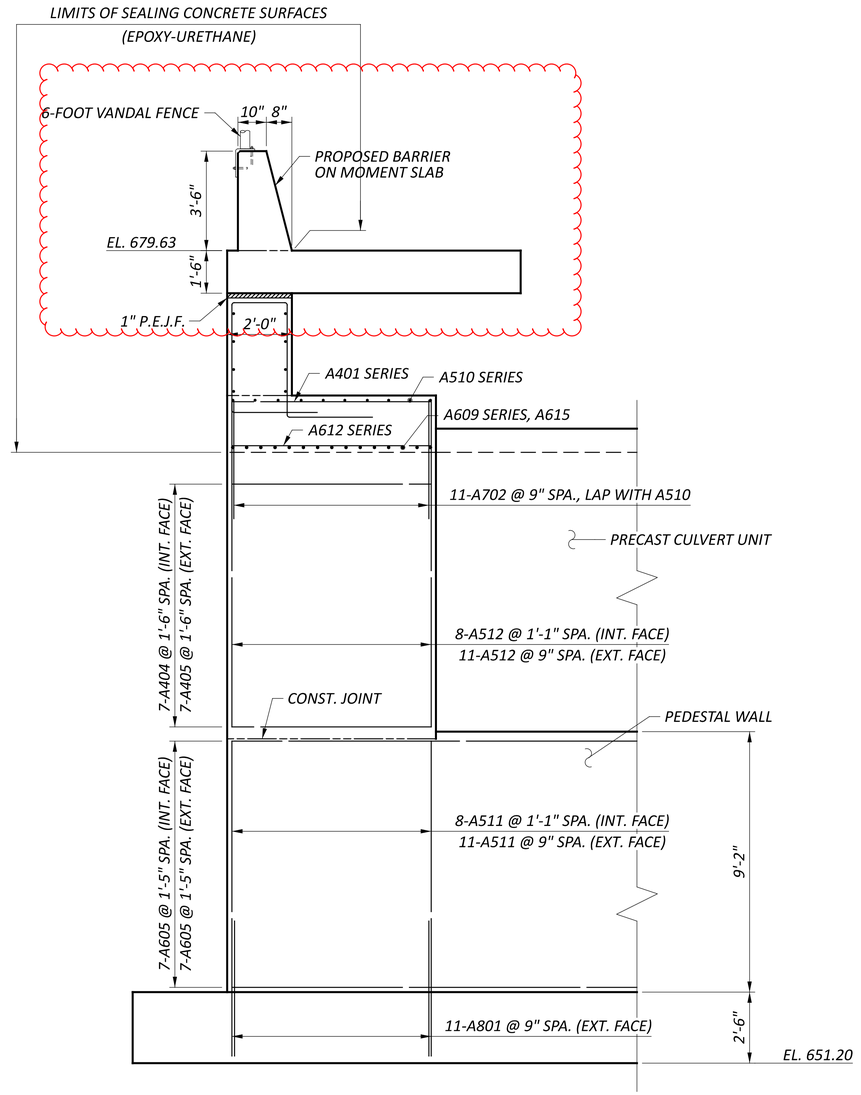
MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/12/2026 TIME: 10:55:40 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: BCSmith@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\SFN_1806572\Sheets\105743_SFN_1806572_SQ001.dgn



INSET A



SECTION A-A



SECTION B-B

NOTE:

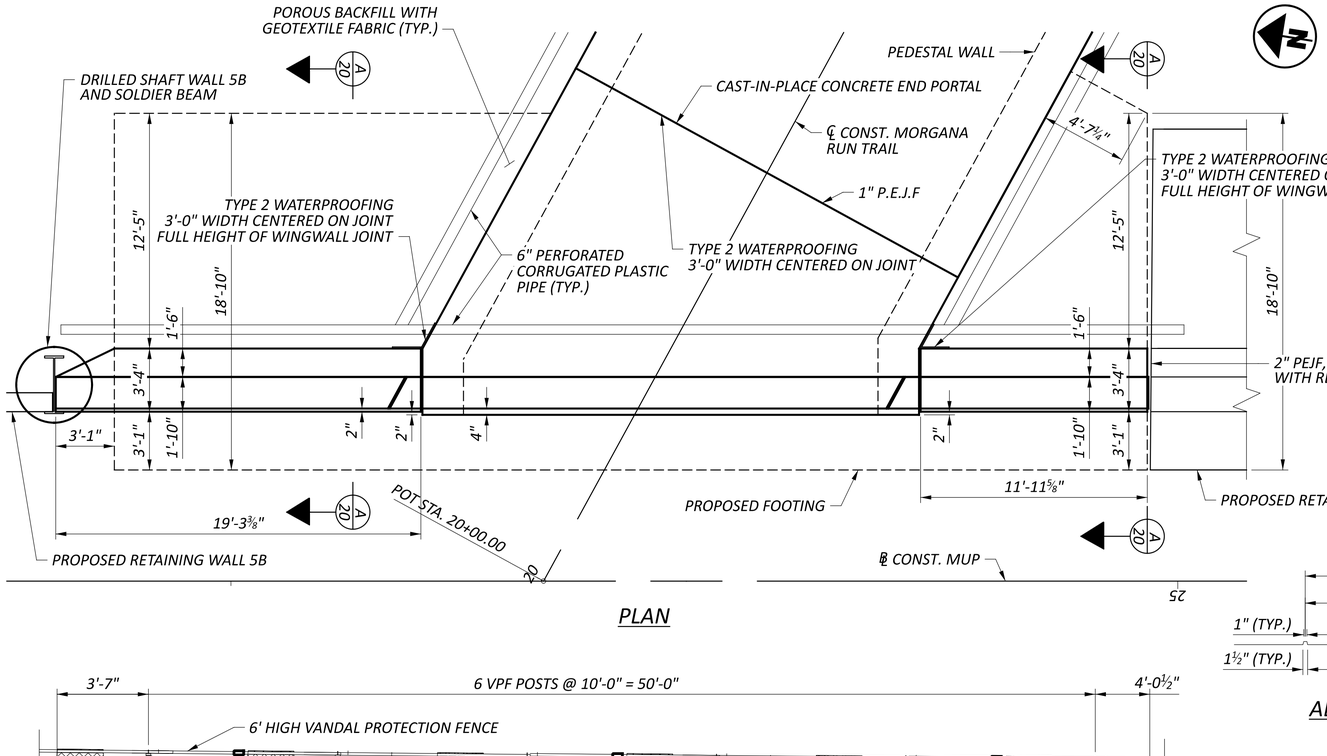
1. FOR LOCATION OF SECTIONS A-A AND B-B, SEE SHEET 18/25.

WEST END PORTAL DETAILS
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN	1806573
DESIGN AGENCY	TRC
DESIGNER	JCP
CHECKER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	19
TOTAL	25
SHEET	P.1158
TOTAL	P.1274

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 12:08:34 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: BCSmith@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\SFN_1806572\Sheets\105743_SFN_1806572_SO004-A.dgn

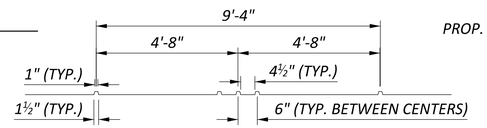


PLAN

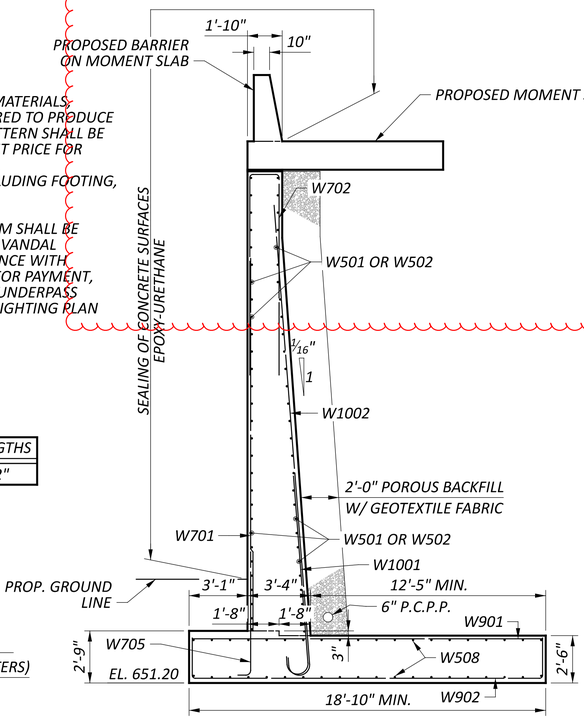
NOTE:

1. PAYMENT FOR ALL FORMWORK, MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO PRODUCE THE AESTHETIC WALL FACING PATTERN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 511, CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN.
2. A STRUCTURE GROUNDING SYSTEM SHALL BE INSTALLED AND BONDED TO THE VANDAL PROTECTION FENCE IN ACCORDANCE WITH STANDARD DRAWING HL-50.21. FOR PAYMENT, REFER TO ITEM 625, SERVICE TO UNDERPASS LIGHTING, AS PER PLAN, IN THE LIGHTING PLAN NOTES.

MINIMUM LAP LENGTHS	
NO. 7 BAR	4'-2"



AESTHETIC GROOVE DETAILS



SECTION A-A

AESTHETIC ELEVATION DETAILS

NORTH WINGWALL ELEVATION

SOUTH WINGWALL ELEVATION

WEST WINGWALL DETAILS
BRIDGE NO. CUY-77-1322 OVER ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN	1806573
DESIGN AGENCY	TRC
DESIGNER	JCP
CHECKER	CEJ
REVIEWER	CJW 11/17/25
PROJECT ID	105743
SUBSET	20
TOTAL	25
SHEET	P.1159
TOTAL	P.1274

CUY-77-11.41 - PART 1

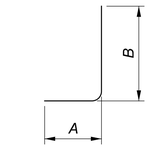
MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 12:05:33 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: BCSmith@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\SFN_1806572\Sheets\105743_SFN_1806572_SO005.dgn

MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
CULVERT STRUCTURE											
	1 SR	9'-9"									
A401	OF	TO	181	STR							0'-9 ¼"
	17	22'-2"									
A402	7	22'-2"	104	STR							
A403	7	21'-2"	99	STR							
A404	7	10'-9"	50	STR							
A405	7	9'-9"	46	STR							
	1 SR	6'-6"									
A406	OF	TO	144	STR							0'-9 ¼"
	17	18'-10"									
A407	7	18'-10"	88	STR							
A408	7	17'-10"	83	STR							
A409	7	7'-5"	35	STR							
A410	7	6'-5"	30	STR							
A501	3	25'-10"	81	STR							
A502	5	23'-1"	120	STR							
	2 SR	22'-8"									
A503	OF	TO	607	STR							0'-3 ½"
	12	25'-10"									
	1 SR	14'-7"									
A504	OF	TO	178	STR							0'-2 ¼"
	11	16'-6"									
A505	2	26'-11"	56	STR							
A506	5	25'-10"	135	STR							
	1 SR	14'-7"									
A508	OF	TO	178	STR							0'-2 ¼"
	11	16'-5"									
A509	29	25'-10"	781	STR							
A510	23	22'-9"	546	STR							
A511	137	11'-3"	1608	STR							
A512	137	11'-6"	1643	STR							
	1 SR	22'-8"									
A513	OF	TO	733	STR							0'-1 ¼"
	29	25'-10"									
A601	170	30'-0"	7660	STR							
A602	34	11'-6"	587	STR							
A603	76	22'-8"	2587	STR							
A604	248	8'-5"	3135	1	2'-9"	5'-10"					
A605	112	30'-0"	5047	STR							
A606	28	6'-7"	277	STR							
A607	248	18'-8"	6953	2	8'-7"	1'-10"	8'-7"				
A608	7	25'-10"	272	STR							
	1 SR	22'-8"									0'-6 ½"
A609			437	STR							0'-3 ½"
	12	25'-10"									
A610	11	21'-2"	350	STR							
A611	11	13'-0"	215	STR							
	1 SR	9'-2"									
A612	OF	TO	511	STR							0'-5 ¼"
	24	19'-2"									
	1 SR	6'-5"									
A613	OF	TO	796	STR							0'-3 ¾"
	42	18'-10"									
	1 SR	8'-0"									
A614	OF	TO	511	STR							0'-6 ½"
	24	20'-4"									
A615	148	8'-10"	1964	STR							
SUB-TOTAL			38,047								

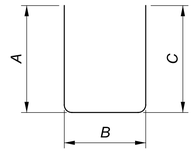
MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
CULVERT STRUCTURE (CONT.)											
	2 SR	22'-8"									
A701	OF	TO	4486	STR							0'-2"
	42	29'-7"									
A702	102	8'-2"	1703	1	4'-2"	4'-2"					
A703	194	22'-8"	8988	STR							
A704	48	17'-9"	1741	30	3'-0"	1'-4"	5'-8"	5'-6"			
A801	418	10'-6"	11719	1	3'-8"	7'-1"					
SUB-TOTAL			28,637								
WINGWALL STEM AND FOOTINGS											
W501	62	18'-11"	1223	STR							
W502	62	11'-8"	754	STR							
W503	62	8'-10"	571	STR							
W504	62	5'-8"	366	STR							
W505	2	6'-5"	13	STR							
W506	40	16'-9"	699	STR							
W507	40	5'-10"	243	STR							
W508	40	24'-9"	1033	STR							
W509	42	13'-9"	602	STR							
W701	30	22'-2"	1359	1	21'-8"	0'-8"					
W702	23	22'-3"	1046	2	10'-7"	1'-6"	10'-7"				
W703	3	22'-7"	138	1	19'-9"	3'-0"					
W704	34	22'-2"	1540	2	10'-7"	1'-4"	10'-7"				
W705	30	7'-0"	429	1	1'-2"	6'-0"					
W901	31	18'-6"	1950	STR							
W902	31	22'-1"	2328	2	2'-1"	18'-6"	2'-1"				
W903	17	20'-0"	1156	STR							
W904	17	23'-7"	1363	2	2'-1"	20'-0"	2'-1"				
W905	21	18'-6"	1321	STR							
W906	21	22'-1"	1577	2	2'-1"	18'-6"	2'-1"				
W907	7	11'-8"	278	STR							
W908	7	15'-3"	363	2	2'-1"	11'-8"	2'-1"				
W1001	26	13'-4"	1492	16	11'-11"						
W1002	30	27'-8"	3571	16	26'-3"						
W1003	3	8'-3"	106	STR							
W1004	3	19'-9"	255	STR							
SUB-TOTAL			25,776								

NOTES:

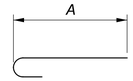
1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR AND W1001 IS A NO. 10 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.
2. ALL REINFORCING STEEL TO BE EPOXY COATED.
3. SERIES BARS - BAR LENGTHS VARY BY TABULATED INCREMENT.



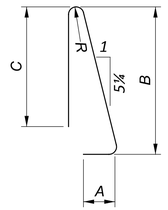
TYPE-1



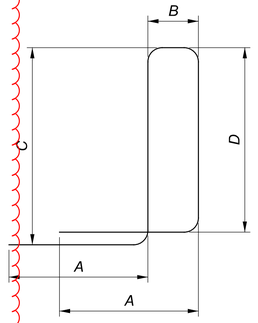
TYPE-2



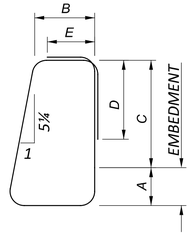
TYPE-16



TYPE-23



TYPE-30



TYPE-37

REINFORCING STEEL LIST
BRIDGE NO. CUY-77-1322 OVER
ABANDONED W&LE RR (FUTURE MORGANA RUN TRAIL)

SFN 1806573
DESIGN AGENCY TRC
DESIGNER JCP | CHECKER CEJ
REVIEWER CJW 11/17/25
PROJECT ID 105743
SUBSET 25 | TOTAL 25
SHEET P.1164 | TOTAL P.1274

CUY-77-11.41 - PART 1

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/13/2026 TIME: 12:19:19 AM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: BCSmith@trcsolutions.com WORKSPACE: OHDOTCEv02 WORKSET: 105743 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\trc-pw.bentley.com:trc-pw-01\Documents\5 - Projects - External\Ohio Department of Transportation (ODOT)\301525 - CUY-77-11.21\105743\400-Engineering\Structures\SFN_1806572\Sheets\105743_SFN_1806572_SL001.dgn