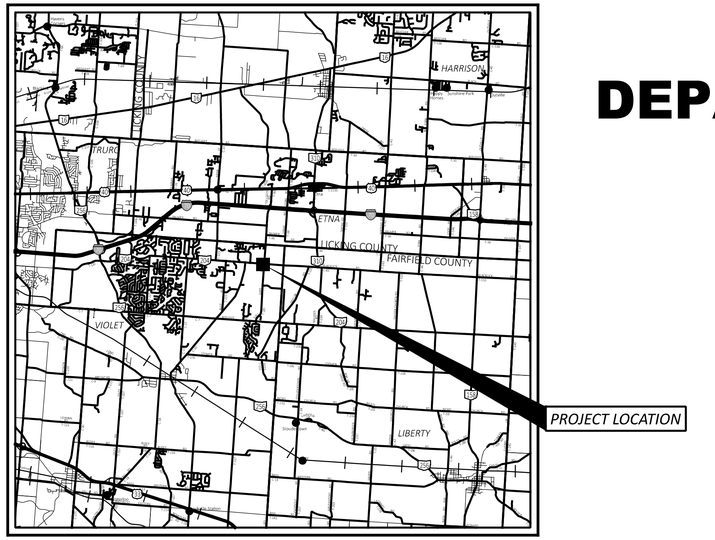
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

FAI-204-04.30

VIOLET TOWNSHIP

FAIRFIELD COUNTY



LOCATION MAP

LATITUDE: 39°55'41.9" LONGITUDE: 82°42'26.3"

N

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

DESIGN DESIGNATION

	SR 204	TOLL GATE ROAD (TR 225)
CURRENT ADT (2027)	4,400	1,800
DESIGN YEAR ADT (2047)	5,200	2,200
DESIGN HOURLY VOLUME (2047)	700	230
DIRECTIONAL DISTRIBUTION	54%	50%
TRUCKS (24 HOUR B&C)	4%	4%
DESIGN SPEED	45 MPH	45 MPH
LEGAL SPEED	45 MPH	45 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	04 - RURAL MINOR ARTERIAL	07 - RURAL LOCAL

NHS PROJECT — NO

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

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

OHM
PLAN PREPARED BY:
OHM ADVISORS
580 N. 4TH ST. #610
COLUMBUS, OH 43215

INDEX OF SHEETS:

FINAL TRACINGS SUBMISSION - 8/15/2025

FEDERAL PROJECT NUMBER

E230491

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

CONSTRUCTION OF A ROUNDABOUT AT THE INTERSECTION OF SR 204 AND TOLL GATE ROAD (TR 225) IN VIOLET TOWNSHIP, FAIRFIELD COUNTY, OHIO. PROJECT WORK INCLUDES NEW ASPHALT PAVEMENT, CURB AND GUTTER, STORM SEWER, STREET LIGHTING, AND TRAFFIC CONTROL.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	2.96 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.69 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	3.65 ACRES

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEET P.___ AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

Jason L. Sturgeon, P.E.
District 05 Deputy Director

Pamela Boratyn
Director, Department of Transportation

STANDARD CONSTRUCTION DRAWINGS

BP-3.1	1/19/24	CB-2-2A, 2B, 2C	7/19/24	HL-10.11	7/21/23	TC-41.20	10/18/13		
BP-4.1	7/19/23	CB-3	7/19/24	HL-10.12	7/21/23	TC-41.30	4/21/23		
BP-5.1	7/18/25	CB-6	7/19/24	HL-10.13	1/20/23	TC-41.40	10/18/13		
BP-7.1	7/18/25			HL-20.11	7/18/25	TC-42.20	10/18/13		
		DM-1.1	1/17/25	HL-30.11	7/21/23	TC-52.10	10/18/13		
MGS-1.1	1/17/25	DM-1.2	1/17/25	HL-30.21	4/17/20	TC-52.20	1/15/21		
MGS-2.1	7/18/25	DM-4.4	1/15/16	HL-30.22	1/17/25	TC-61.30	7/19/24		
MGS-4.2	7/18/25			HL-40.20	7/18/25	TC-65.10	1/17/14		
MGS-5.2	7/15/16	HW-2.1	7/15/22	HL-50.11	1/16/15	TC-65.11	1/17/25		
MGS-5.3	7/15/16	HW-2.2	7/20/18	HL-60.11	7/21/17	TC-71.10	7/18/25		
				HL-60.31	7/19/24	TC-74.10	7/21/23		
						TC-87.10	7/18/25		
RM-1.1	1/20/23								
RM-3.1	7/20/18					MT-101.60	1/17/25		
						MT-105.10	1/17/20		

SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS
800	7/18/25	FAIRFIELD COUNTY
813	7/21/23	WATER LINE
832	7/18/25	STANDARD DRAWINGS
913	4/16/21	APRIL 2017

ENGINEER'S SEAL	ENGINEER'S SEAL
ROADWAY	LIGHTING

TITLE SHEET

DESIGN AGENCY
OHM

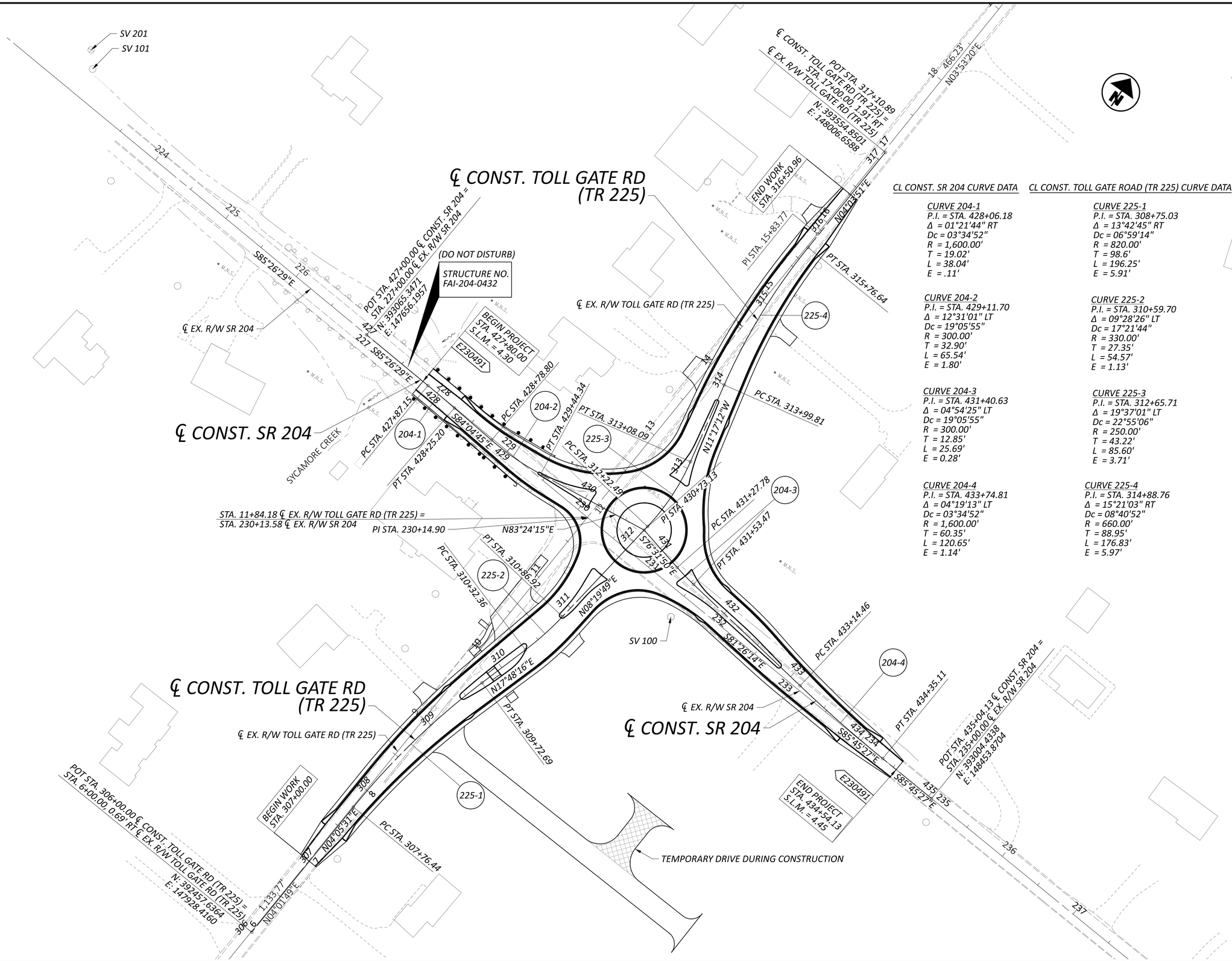
DESIGNER
AHH

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.1 TOTAL 101

FAI-204-04.30



CL CONST. SR 204 CURVE DATA

CURVE 204-1
P.I. = STA. 428+06.18
Δ = 01°21'44" RT
Dc = 03°34'52"
R = 1,600.00'
T = 19.02'
L = 38.04'
E = .11'

CURVE 204-2
P.I. = STA. 429+11.70
Δ = 12°31'01" LT
Dc = 19°05'55"
R = 300.00'
T = 32.90'
L = 65.54'
E = 1.80'

CURVE 204-3
P.I. = STA. 431+40.63
Δ = 04°54'25" LT
Dc = 19°05'55"
R = 300.00'
T = 12.85'
L = 25.69'
E = 0.28'

CURVE 204-4
P.I. = STA. 433+74.81
Δ = 04°19'13" LT
Dc = 03°34'52"
R = 1,600.00'
T = 60.35'
L = 120.65'
E = 1.14'

CL CONST. TOLL GATE ROAD (TR 225) CURVE DATA

CURVE 225-1
P.I. = STA. 308+75.03
Δ = 13°42'45" RT
Dc = 06°59'14"
R = 820.00'
T = 98.6'
L = 196.25'
E = 5.91'

CURVE 225-2
P.I. = STA. 310+59.70
Δ = 09°28'26" LT
Dc = 17°21'44"
R = 330.00'
T = 27.35'
L = 54.57'
E = 1.13'

CURVE 225-3
P.I. = STA. 312+65.71
Δ = 19°37'01" LT
Dc = 22°55'06"
R = 250.00'
T = 43.22'
L = 85.60'
E = 3.71'

CURVE 225-4
P.I. = STA. 314+88.76
Δ = 15°21'03" RT
Dc = 08°40'52"
R = 660.00'
T = 88.95'
L = 176.83'
E = 5.97'

SCHEMATIC PLAN

DESIGN AGENCY
OHM

DESIGNER ZR
REVIEWER SEO 08/15/25
PROJECT ID 113650
SHEET P.2 TOTAL 101

FAI-204-04.30

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PRIMARY HORZIONTAL CONTROL POINTS SV1 thru SV5 WERE ESTABLISHED BY USING AN AVERAGE OF ODOT RTN OBSERVATIONS AS FOLLOWS:
SV100 (9 OBSERVATIONS), SV101 UTILIZING (9 OBSERVATIONS), SV102 (10 OBSERVATIONS), SV103 (10 OBSERVATIONS), AND SV104 (9 OBSERVATIONS)
DISPLAYED HORIZONTAL COORDINATES ARE GRID POSITIONS NAD83 (2011) OHIO STATE PLANE SOUTH, THESE POSITIONS WERE ORIGINALLY USED TO OBTAIN ODOT COUNTY COORDINATES IN FAIRFIELD COUNTY OHIO LOW DISTORTION MAPPING PROJECTION (LDP). IN ORDER TO OBTAIN SCALED (GROUND) POSITIONS, GRID COORDINATES WERE SCALED FALSE EASTING 50,000m, FALSE NORTHING 10000m BY A FACTOR OF 1.000037. THIS FACTOR WAS DETERMINED BY THE OHIO COUNTY COORDINATE SYSTEM (OCCS) BY ODOT.

		NAD83 SPC OH SOUTH			ODOT FAIRFIELD COUNTY LDP		
CONTROL POINT	DESCRIPTION	GRID NORTHING (METERS)	GRID EASTING (METERS)	ELEVATION (METERS)	NORTHING (US FEET)	EASTING (US FEET)	ELEVATION (US FEET)
SV100	FOUND CONCRETE MONUMENT WITH DISK STAMPED "PRIMARY PROJECT CONTROL 3"	214080.65	582320.91	314.55	393003.65	148106.14	1031.98
SV101	IRON PIN WITH ALUMINUM CAP LABELED "CP101-WOOLPERT"	214120.08	582058.10	313.78	393131.60	147243.62	1029.46
SV102	IRON PIN WITH ALUMINUM CAP LABELED "CP102-WOOLPERT"	214349.22	582291.44	315.71	393884.66	148007.97	1035.78
SV103	IRON PIN WITH ALUMINUM CAP LABELED "CP103-WOOLPERT"	214062.76	582553.43	315.97	392946.20	148869.13	1036.66
SV104	IRON PIN WITH ALUMINUM CAP LABELED "CP104-WOOLPERT"	213868.99	582256.53	313.11	392308.84	147896.05	1027.26

VERTICAL CONTROL WAS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), WITH GEOID 18 USED TO MODEL ELEVATIONS. A DIFFERENTIAL LEVELING RUN WAS USED TO DETERMINE BENCHMARK ELEVATIONS BASED OFF CONTROL POINT SV100

		NAD83 SPC OH SOUTH			ODOT FAIRFIELD COUNTY LDP		
BENCHMARK	DESCRIPTION	GRID NORTHING (METERS)	GRID EASTING (METERS)	ELEVATION (METERS)	NORTHING (US FEET)	EASTING (US FEET)	ELEVATION (US FEET)
SV201	RRS SET IN SOUTH FACE OF POWER POLE	214125.04	582054.04	314.74	393147.84	147230.29	1032.61
SV202	X CUT ON THE ARROW BOLT ON A FIRE HYDRANT	214352.70	582291.63	316.41	393896.08	148008.59	1038.08
SV203	RRS SET IN SOUTH FACE OF POWER POLE	214080.56	582549.20	315.99	393004.59	148855.17	1036.70
SV204	X CUT ON THE ARROW BOLT ON A FIRE HYDRANT	213864.97	582257.65	313.64	392295.65	147899.73	1029.00

PROJECT CONTROL

POSITIONING METHOD: LOCAL RTK AND CONVENTIONAL TOTAL STATION OF ODOT RTN-ESTABLISHED MONUMENTS SV100-SV104
MONUMENT TYPE: IRON PIN SET W/ ALUMINUM CAP; FOUND CONCRETE MONUMENT

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID18

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)
ELLIPSOID: GRS 80
MAP PROJECTION: LAMBERT CONIC CONFORMAL
COORDINATE SYSTEM: OHIO COUNTY COORDINATE SYSTEM, FAIRFIELD LDP
PROJECT SCALE FACTOR: 1.000037 (GRID TO GROUND)
ORIGIN OF COORDINATE SYSTEM: GRID COORDINATES SCALED ABOUT FALSE EASTING 50,000m, FALSE NORTHING 10000m (DATA FROM COUNTY DATASHEET PROVIDED FROM ODOT)

HORIZONTAL AND VERTICAL CONTROL

DESIGN AGENCY
OHM

DESIGNER
ZR

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.3 TOTAL 101

FAI-204-04.30

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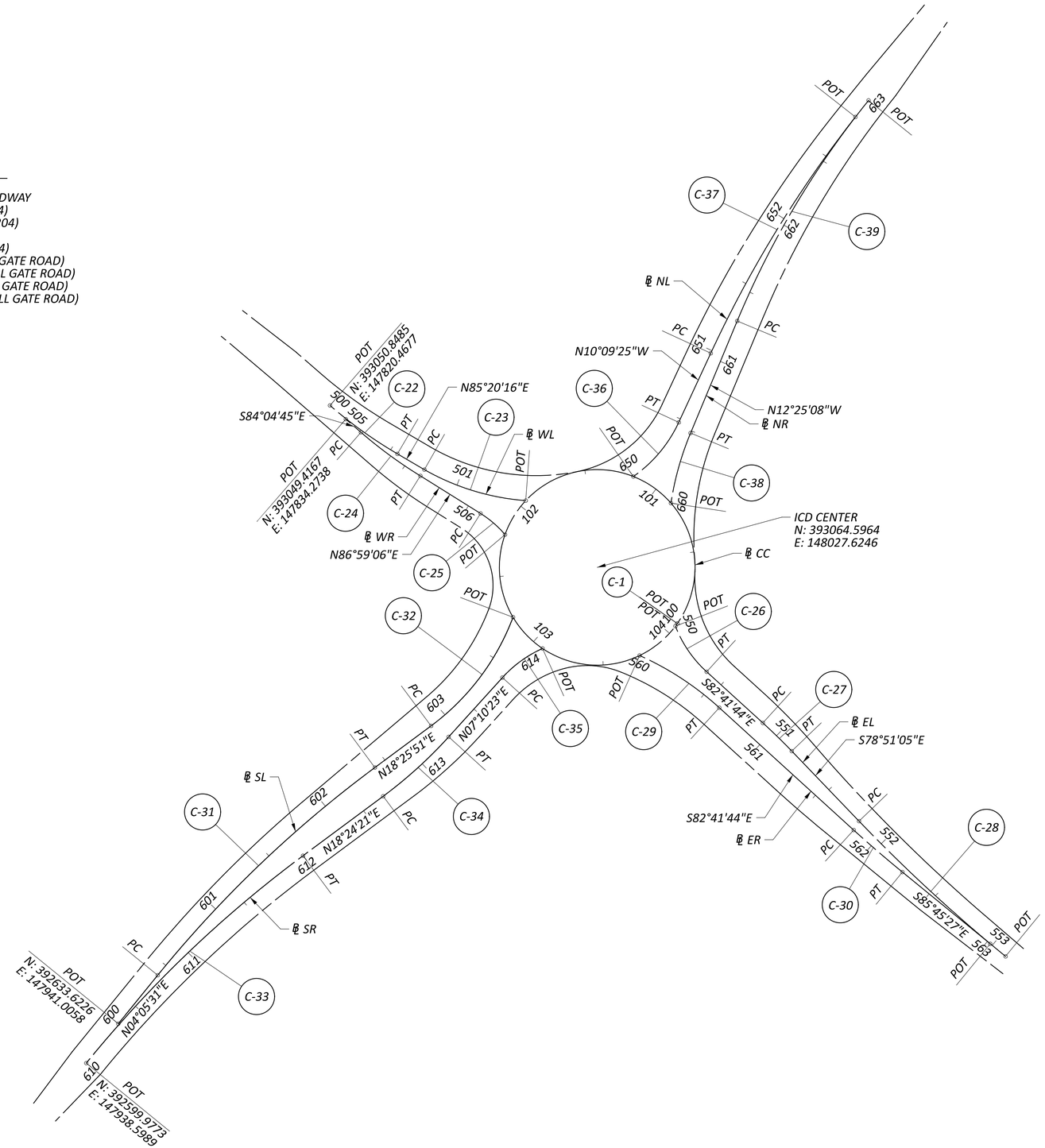
BASELINE LEGEND

- ℄ CC - CIRCULATORY ROADWAY
- ℄ WL - WEST LEFT (SR 204)
- ℄ WR - WEST RIGHT (SR 204)
- ℄ EL - EAST LEFT (SR 204)
- ℄ ER - EAST RIGHT (SR 204)
- ℄ SL - SOUTH LEFT (TOLL GATE ROAD)
- ℄ SR - SOUTH RIGHT (TOLL GATE ROAD)
- ℄ NL - NORTH LEFT (TOLL GATE ROAD)
- ℄ NR - NORTH RIGHT (TOLL GATE ROAD)
- ℄ NW - NORTHWEST
- ℄ NE - NORTHEAST
- ℄ SE - SOUTHEAST
- ℄ SW - SOUTHWEST



HORIZONTAL SCALE IN FEET
0 20 40 80

ROUNDABOUT GEOMETRIC LAYOUT - SPLITTER ISLAND ALIGNMENTS
SR 204 AND TOLL GATE ROAD

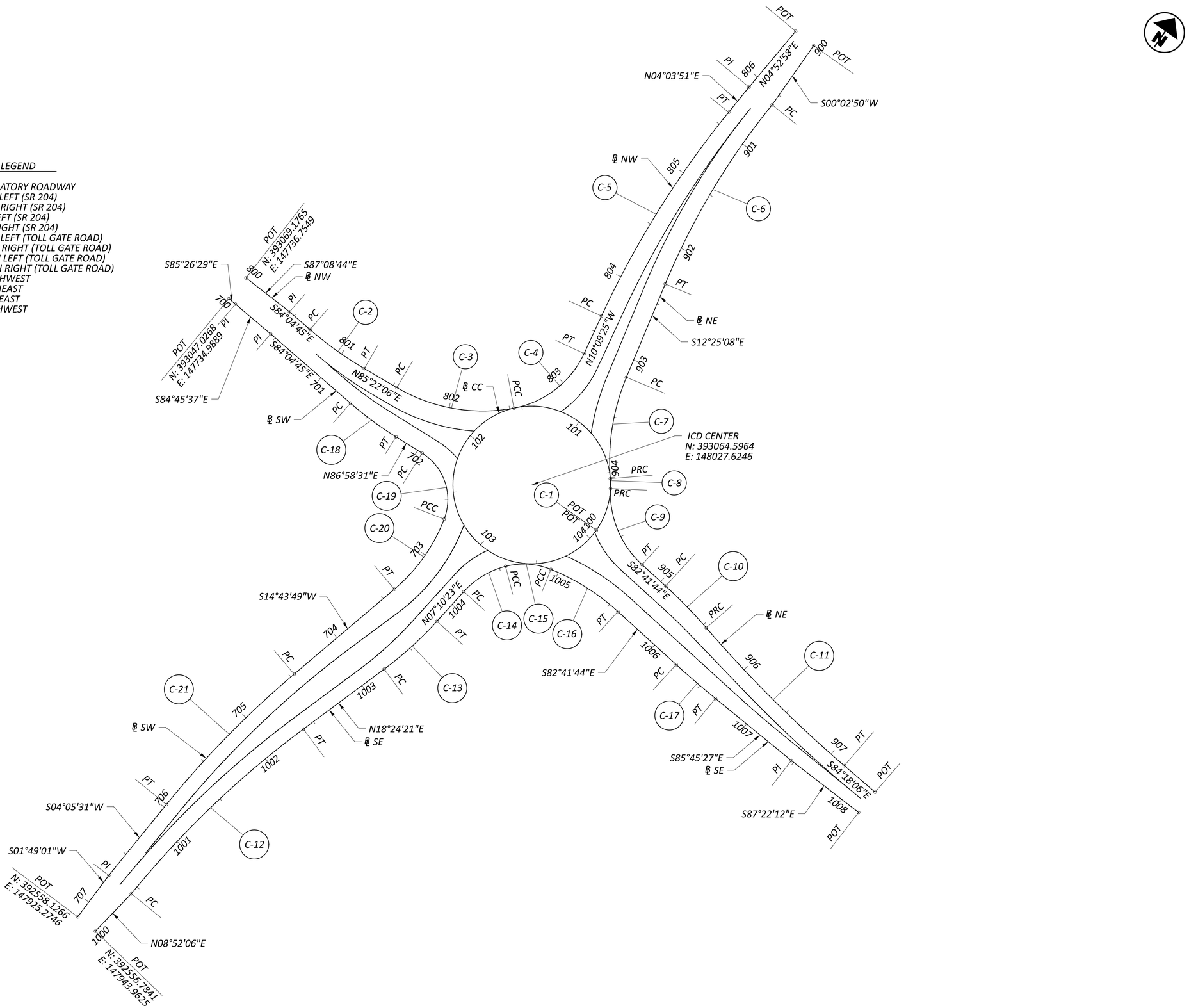
DESIGN AGENCY
OHM

DESIGNER
ZR

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.4 TOTAL 101



HORIZONTAL SCALE IN FEET
0 20 40 80

ROUNDABOUT GEOMETRIC LAYOUT - OUTSIDE CURB RETURN ALIGNMENTS
SR 204 AND TOLL GATE ROAD

DESIGN AGENCY
OHM

DESIGNER
ZR

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.5 TOTAL 101

FAI-204-04.30

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℄ - CC

CURVE DATA C-1
P.I. = STA. 100+00.00
Δ = 360°00'00" LT
Dc = 88°08'50"
R = 65.00'
T = 0.00'
L = 408.41'
E = 0.00'
POT STA. 100+00.00
POT STA. 104+08.41

℄ - NW

CURVE DATA C-2
P.I. = STA. 800+94.90
Δ = 10°33'10" LT
Dc = 19°05'55"
R = 300.00'
T = 27.71'
L = 55.25'
E = 1.28'
PC STA. 800+67.19
PT STA. 801+22.45

CURVE DATA C-3
P.I. = STA. 802+05.86
Δ = 40°56'32" LT
Dc = 40°55'32"
R = 140.00'
T = 52.26'
L = 100.04'
E = 9.44'
PC STA. 801+53.60
PCC STA. 802+53.64

CURVE DATA C-4
P.I. = STA. 802+94.91
Δ = 54°34'59" LT
Dc = 71°37'11"
R = 80.00'
T = 41.28'
L = 76.21'
E = 10.02'
PCC STA. 802+53.64
PT STA. 803+29.85

CURVE DATA C-5
P.I. = STA. 804+63.67
Δ = 14°13'16" RT
Dc = 07°09'43"
R = 800.00'
T = 99.79'
L = 198.56'
E = 6.2'
PC STA. 803+63.88
PT STA. 805+62.44

℄ - NE

CURVE DATA C-6
P.I. = STA. 901+46.42
Δ = 16°28'59" LT
Dc = 09°32'57"
R = 600.00'
T = 86.91'
L = 172.61'
E = 6.26'
PC STA. 900+59.51
PT STA. 902+32.12

CURVE DATA C-7
P.I. = STA. 903+59.05
Δ = 27°09'58" LT
Dc = 31°49'52"
R = 180.00'
T = 43.49'
L = 85.35'
E = 5.18'
PC STA. 903+15.56
PRC STA. 904+00.91

CURVE DATA C-8
P.I. = STA. 904+04.98
Δ = 07°10'00" RT
Dc = 88°08'50"
R = 65.00'
T = 4.07'
L = 8.13'
E = .13'
PRC STA. 904+00.91
PRC STA. 904+09.04

CURVE DATA C-9
P.I. = STA. 904+46.58
Δ = 50°16'37" LT
Dc = 71°37'11"
R = 80.00'
T = 37.54'
L = 70.20'
E = 8.37'
PRC STA. 904+09.04
PT STA. 904+79.24

CURVE DATA C-10
P.I. = STA. 905+29.53
Δ = 06°52'31" RT
Dc = 14°19'26"
R = 400.00'
T = 24.03'
L = 48'
E = .72'
PC STA. 905+05.50
PRC STA. 905+53.50

CURVE DATA C-11
P.I. = STA. 906+34.18
Δ = 08°28'53" LT
Dc = 05°15'58"
R = 1,088.00'
T = 80.68'
L = 161.06'
E = 2.99'
PRC STA. 905+53.50
PT STA. 907+14.56

℄ - SE

CURVE DATA C-12
P.I. = STA. 1001+41.80
Δ = 14°18'51" RT
Dc = 07°16'16"
R = 788.00'
T = 98.95'
L = 196.86'
E = 6.19'
PC STA. 1000+42.85
PT STA. 1002+39.71

CURVE DATA C-13
P.I. = STA. 1003+52.13
Δ = 11°13'58" LT
Dc = 19°05'55"
R = 300.00'
T = 29.50'
L = 58.82'
E = 1.45'
PC STA. 1003+22.62
PT STA. 1003+81.44

CURVE DATA C-14
P.I. = STA. 1004+35.50
Δ = 33°25'09" RT
Dc = 81°51'04"
R = 70.00'
T = 21.01'
L = 40.83'
E = 3.09'
PC STA. 1004+14.49
PCC STA. 1004+55.32

CURVE DATA C-15
P.I. = STA. 1004+75.06
Δ = 36°24'55" RT
Dc = 95°29'35"
R = 60.00'
T = 19.74'
L = 38.13'
E = 3.16'
PCC STA. 1004+55.32
PCC STA. 1004+93.45

CURVE DATA C-16
P.I. = STA. 1005+26.57
Δ = 20°17'49" RT
Dc = 30°58'14"
R = 185.00'
T = 33.11'
L = 65.54'
E = 2.94'
PCC STA. 1004+93.45
PT STA. 1005+58.99

CURVE DATA C-17
P.I. = STA. 1006+45.41
Δ = 03°03'44" LT
Dc = 07°09'43"
R = 800.00'
T = 21.38'
L = 42.76'
E = 0.29'
PC STA. 1006+24.02
PT STA. 1006+66.78

℄ - SW

CURVE DATA C-18
P.I. = STA. 701+55.54
Δ = 08°56'45" LT
Dc = 19°05'55"
R = 300.00'
T = 23.47'
L = 46.84'
E = 0.92'
PC STA. 701+32.08
PT STA. 701+78.92

CURVE DATA C-19
P.I. = STA. 702+41.45
Δ = 79°02'03" RT
Dc = 127°19'26"
R = 45.00'
T = 37.12'
L = 62.07'
E = 13.33'
PC STA. 702+04.33
PCC STA. 702+66.41

CURVE DATA C-20
P.I. = STA. 703+03.02
Δ = 28°43'15" RT
Dc = 40°04'01"
R = 143.00'
T = 36.61'
L = 71.68'
E = 4.61'
PCC STA. 702+66.41
PT STA. 703+38.09

CURVE DATA C-21
P.I. = STA. 705+22.01
Δ = 10°38'18" LT
Dc = 07°03'22"
R = 812.00'
T = 75.60'
L = 150.77'
E = 3.51'
PC STA. 704+46.41
PT STA. 705+97.18

℄ - WL

CURVE DATA C-22
P.I. = STA. 500+27.71
Δ = 10°33'10" LT
Dc = 19°05'55"
R = 300.00'
T = 27.71'
L = 55.25'
E = 1.28'
POT STA. 500+00.00
PT STA. 500+55.25

CURVE DATA C-23
P.I. = STA. 501+12.08
Δ = 25°25'15" LT
Dc = 35°48'36"
R = 160.00'
T = 36.09'
L = 70.99'
E = 4.02'
PC STA. 500+75.99
POT STA. 501+46.98

℄ - WR

CURVE DATA C-24
P.I. = STA. 505+37.90
Δ = 09°21'52" LT
Dc = 19°05'55"
R = 300.00'
T = 24.57'
L = 49.03'
E = 1.00'
PC STA. 505+13.33
PT STA. 505+62.36

CURVE DATA C-25
P.I. = STA. 506+20.39
Δ = 17°40'43" RT
Dc = 81°51'04"
R = 70.00'
T = 10.89'
L = 21.6'
E = .84'
PC STA. 506+09.50
POT STA. 506+31.10

℄ - EL

CURVE DATA C-26
P.I. = STA. 550+18.88
Δ = 26°33'38" LT
Dc = 71°37'11"
R = 80.00'
T = 18.88'
L = 37.09'
E = 2.20'
POT STA. 550+00.00
PT STA. 550+37.09

CURVE DATA C-27
P.I. = STA. 551+01.01
Δ = 03°50'39" RT
Dc = 14°19'26"
R = 400.00'
T = 13.42'
L = 26.84'
E = .23'
PC STA. 550+87.59
PT STA. 551+14.42

CURVE DATA C-28
P.I. = STA. 552+45.31
Δ = 06°54'22" LT
Dc = 05°12'31"
R = 1,100.00'
T = 66.37'
L = 132.59'
E = 2.00'
PC STA. 551+78.94
POT STA. 553+11.53

℄ - ER

CURVE DATA C-29
P.I. = 560+32.05
Δ = 18°12'27" RT
Dc = 28°38'52"
R = 200.00'
T = 32.05'
L = 63.56'
E = 2.55'
POT STA. 560+00.00
PT STA. 560+63.56

CURVE DATA C-30
P.I. = STA. 562+05.73
Δ = 03°03'44" LT
Dc = 07°09'43"
R = 800.00'
T = 21.38'
L = 42.76'
E = 0.29'
PC STA. 561+84.35
PT STA. 562+27.11

℄ - SL

CURVE DATA C-31
P.I. = 601+42.16
Δ = 14°20'20" RT
Dc = 07°09'43"
R = 800.00'
T = 100.63'
L = 200.21'
E = 6.3'
PC STA. 600+41.53
PT STA. 602+41.74

CURVE DATA C-32
P.I. = STA. 603+35.36
Δ = 32°50'46" LT
Dc = 35°48'36"
R = 160.00'
T = 47.16'
L = 91.72'
E = 6.81'
PC STA. 602+88.20
POT STA. 603+79.92

℄ - SR

CURVE DATA C-33
P.I. = STA. 611+00.45
Δ = 14°18'51" RT
Dc = 07°09'43"
R = 800.00'
T = 100.45'
L = 199.86'
E = 6.28'
POT STA. 610+00.00
PT STA. 611+99.86

CURVE DATA C-34
P.I. = STA. 612+95.69
Δ = 11°13'58" LT
Dc = 19°05'55"
R = 300.00'
T = 29.50'
L = 58.82'
E = 1.45'
PC STA. 612+66.19
PT STA. 613+25.01

CURVE DATA C-35
P.I. = STA. 613+95.05
Δ = 23°44'10" RT
Dc = 71°37'11"
R = 80.00'
T = 16.81'
L = 33.14'
E = 1.75'
PC STA. 613+78.23
POT STA. 614+11.38

℄ - NL

CURVE DATA C-36
P.I. = STA. 650+24.32
Δ = 30°14'16" LT
Dc = 63°39'43"
R = 90.00'
T = 24.32'
L = 47.50'
E = 3.23'
POT STA. 650+00.00
PT STA. 650+47.50

CURVE DATA C-37
P.I. = STA. 651+90.79
Δ = 13°12'49" RT
Dc = 07°09'43"
R = 800.00'
T = 92.66'
L = 184.5'
E = 5.35'
PC STA. 650+98.13
POT STA. 652+82.62

℄ - NR

CURVE DATA C-38
P.I. = STA. 660+24.36
Δ = 13°53'13" RT
Dc = 28°38'52"
R = 200.00'
T = 24.36'
L = 48.47'
E = 1.48'
POT STA. 660+00.00
PT STA. 660+48.47

CURVE DATA C-39
P.I. = STA. 662+15.30
Δ = 16°20'57" RT
Dc = 09°32'57"
R = 600.00'
T = 86.19'
L = 171.21'
E = 6.16'
PC STA. 661+29.11
POT STA. 663+00.32

ROUNDABOUT CURVE DATA
SR 204 AND TOLL GATE ROAD

DESIGN AGENCY
OHM

DESIGNER
ZR

REVIEWER
SEO 08/15/25

PROJECT ID
113650

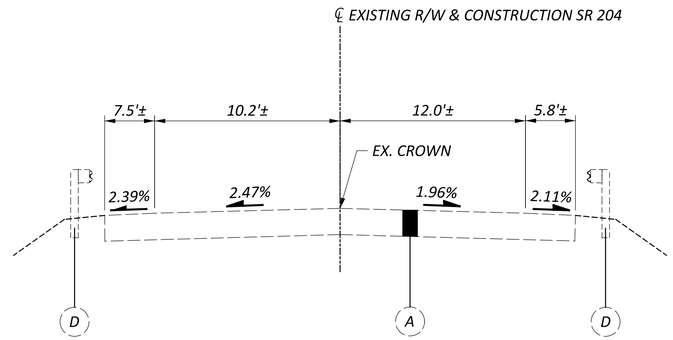
SHEET P.6 TOTAL 101

FAI-204-04.30

MODEL: CURVE DATA-1 PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:14:01 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Fairfield\113650\401-Engineering_OHMAdvisors\Roadway\Sheets\113650_GM001.dgn

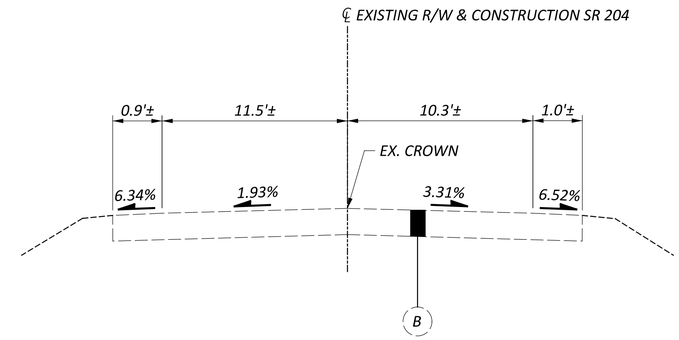
LEGEND

- (A) 12"± ASPHALT CONCRETE & 6"± AGGREGATE BASE
- (B) 9.5"± ASPHALT CONCRETE & 8.5"± AGGREGATE BASE
- (C) 10.5"± ASPHALT CONCRETE & 7.5"± AGGREGATE BASE
- (D) EXISTING GUARDRAIL, TYPE MGS



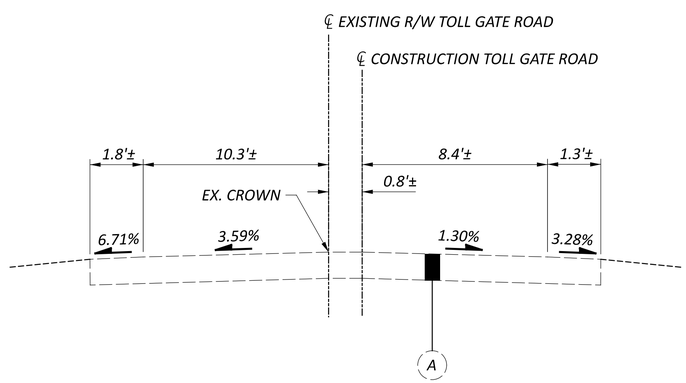
NORMAL SECTION

STA. 427+80.00



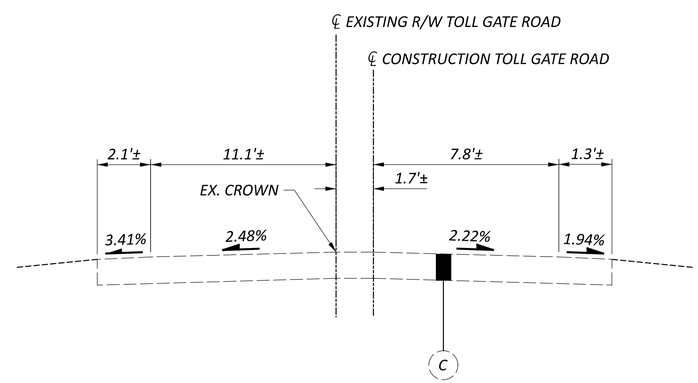
NORMAL SECTION

STA. 434+54.13



NORMAL SECTION

STA. 307+00.00



NORMAL SECTION

STA. 316+50.96

EXISTING TYPICAL SECTIONS

DESIGN AGENCY

OHM

DESIGNER AHH

REVIEWER SEO 08/15/25

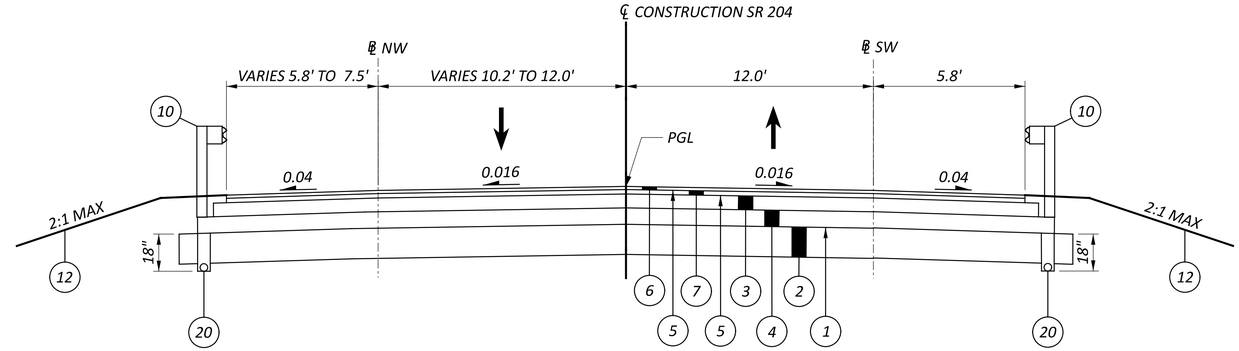
PROJECT ID 113650

SHEET P.7 TOTAL 101

FAI-204-04.30

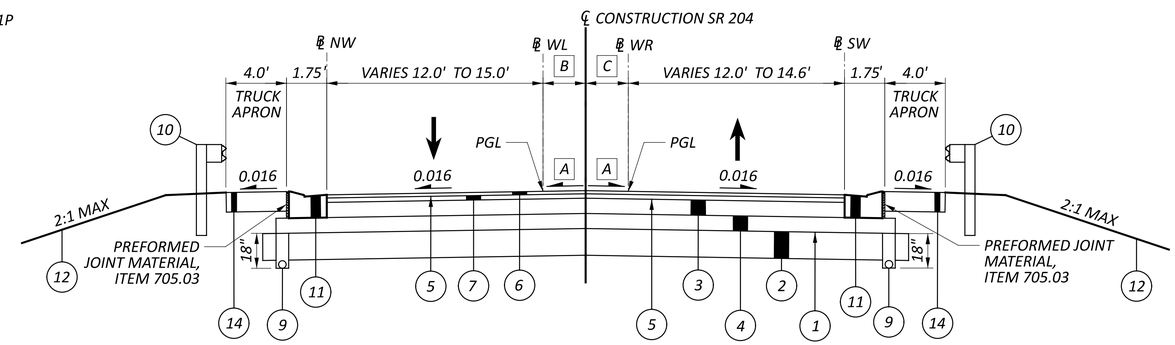
LEGEND

1. ITEM 204 - PROOF ROLLING
2. ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP
3. ITEM 301 - 4" ASPHALT CONCRETE BASE, PG64-22, (449)
4. ITEM 304 - 6" AGGREGATE BASE
5. ITEM 407 - NON-TRACKING TACK COAT
6. ITEM 441 - 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), PG70-22M
7. ITEM 441 - 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (449)
8. ITEM 609 - CONCRETE MEDIAN (6" DEPTH)
9. ITEM 605 - 6" BASE PIPE UNDERDRAIN
10. ITEM 606 - GUARDRAIL, TYPE MGS WITH LONG POSTS
11. ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 9
12. ITEM 659 - SEEDING AND MULCHING
13. ITEM 304 - 13.5" AGGREGATE BASE
14. ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P
15. ITEM 657 - RIPRAP FOR TREE PROTECTION, AS PER PLAN
16. ITEM 204 - GEOTEXTILE FABRIC
17. ITEM 609 - CURB, TYPE 6
18. ITEM 608 - 4" CONCRETE WALK
19. ITEM 608 - CURB RAMP
20. ITEM 605 - 6" UNCLASSIFIED PIPE UNDERDRAIN



NORMAL SECTION (A - A)

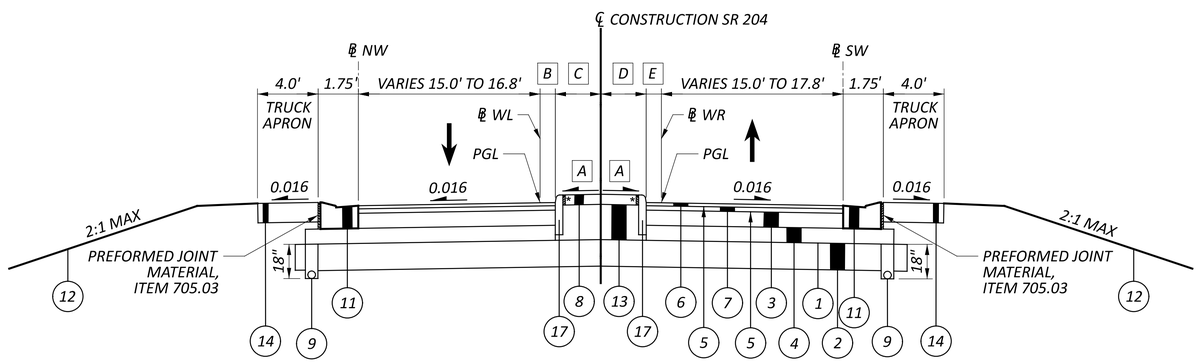
STA. 427+80.00 TO 428+24.66



NORMAL SECTION (B - B)

STA. 428+24.66 TO 429+40.96

- A CROSS SLOPE VARIES
- B VARIES 0.0' TO 2.5'
- C VARIES 0.0' TO 2.5'

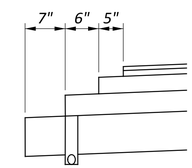


NORMAL SECTION (C - C)

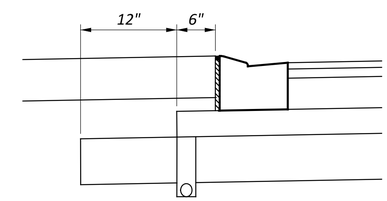
STA. 429+40.96 TO 430+07.13

* PREFORMED JOINT MATERIAL, ITEM 705.03

- A CROSS SLOPE VARIES
- B 1.0'
- C VARIES 1.5' TO 12.6'
- D VARIES 1.5' TO 8.0'
- E 1.0'



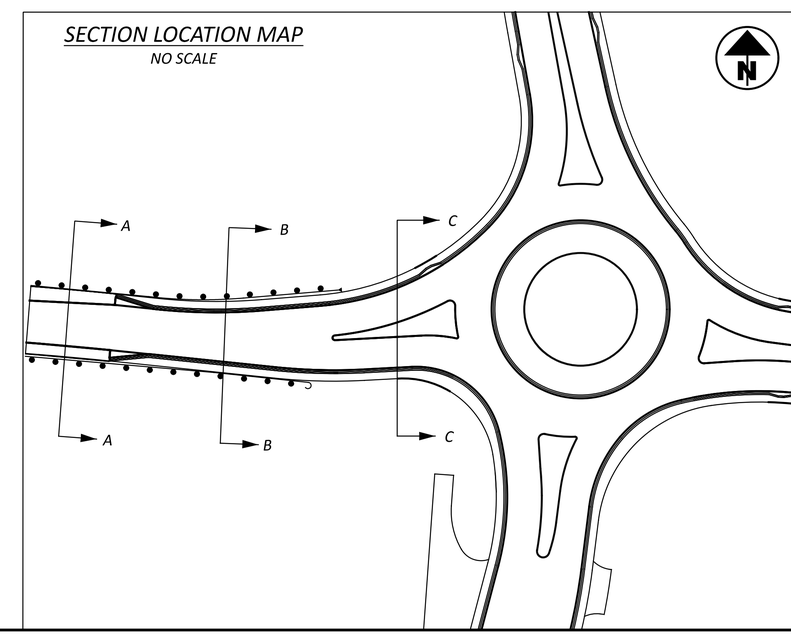
STEP DETAILS - SHOULDER SECTION



STEP DETAILS - CURB & GUTTER SECTION

SECTION LOCATION MAP

NO SCALE



TYPICAL SECTIONS - SR 204 (WEST LEG)

DESIGN AGENCY: OHM

DESIGNER: AHH

REVIEWER: SEO 08/15/25

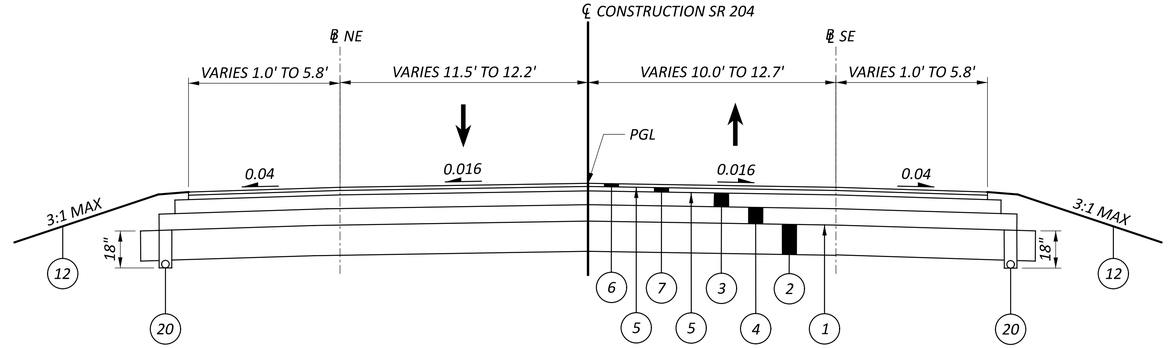
PROJECT ID: 113650

SHEET: P.8 TOTAL: 101

FAI-204-04.30

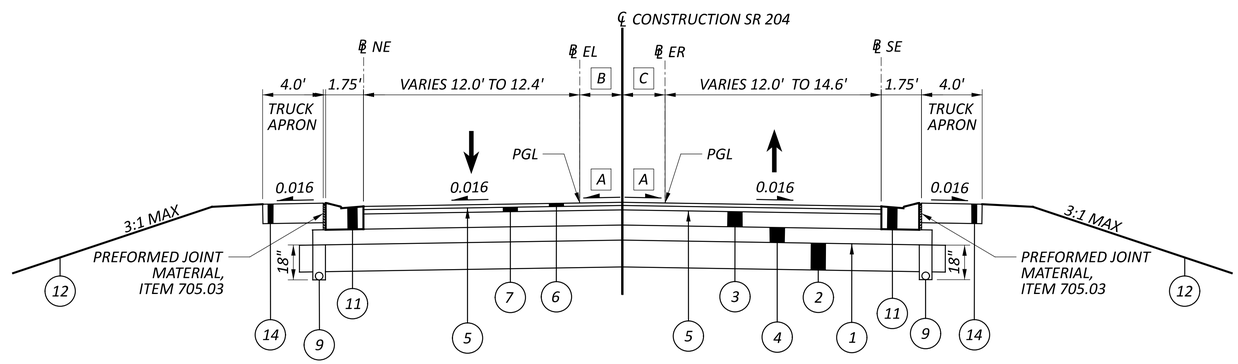
LEGEND

1. ITEM 204 - PROOF ROLLING
2. ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP
3. ITEM 301 - 4" ASPHALT CONCRETE BASE, PG64-22, (449)
4. ITEM 304 - 6" AGGREGATE BASE
5. ITEM 407 - NON-TRACKING TACK COAT
6. ITEM 441 - 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), PG70-22M
7. ITEM 441 - 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (449)
8. ITEM 609 - CONCRETE MEDIAN (6" DEPTH)
9. ITEM 605 - 6" BASE PIPE UNDERDRAIN
10. ITEM 606 - GUARDRAIL, TYPE MGS WITH LONG POSTS
11. ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 9
12. ITEM 659 - SEEDING AND MULCHING
13. ITEM 304 - 13.5" AGGREGATE BASE
14. ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P
15. ITEM 657 - RIPRAP FOR TREE PROTECTION, AS PER PLAN
16. ITEM 204 - GEOTEXTILE FABRIC
17. ITEM 609 - CURB, TYPE 6
18. ITEM 608 - 4" CONCRETE WALK
19. ITEM 608 - CURB RAMP
20. ITEM 605 - 6" UNCLASSIFIED PIPE UNDERDRAIN



NORMAL SECTION (F - F)

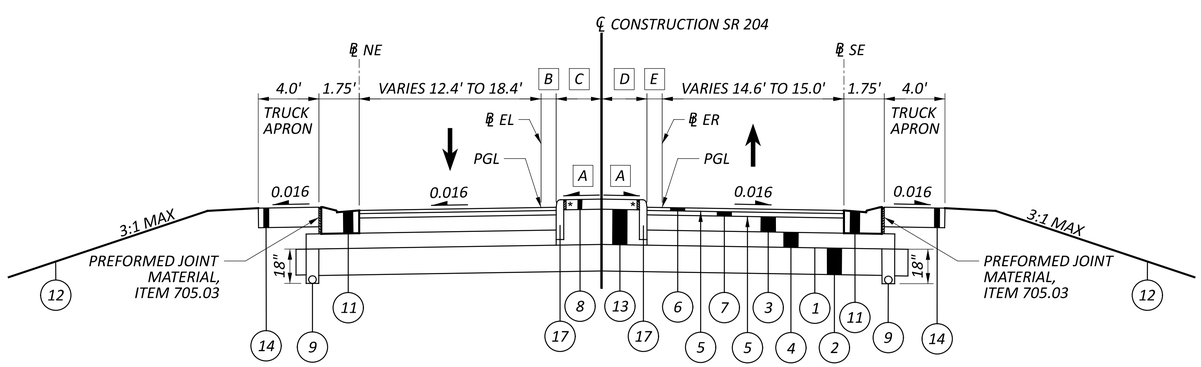
STA. 433+84.97 TO 434+54.13



NORMAL SECTION (E - E)

STA. 432+85.43 TO 434+21.06

A CROSS SLOPE VARIES
B VARIES 0.3' TO 4.9'
C VARIES 0.1' TO 3.9'

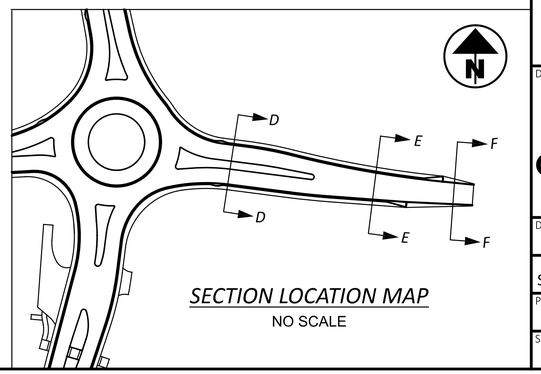


NORMAL SECTION (D - D)

STA. 431+39.05 TO 432+85.43

A CROSS SLOPE VARIES
B VARIES 1.0' TO 2.0'
C VARIES 3.0' TO 10.5'
D VARIES 3.0' TO 13.2'
E 1.0'

* PREFORMED JOINT MATERIAL, ITEM 705.03



SECTION LOCATION MAP

NO SCALE

TYPICAL SECTIONS - SR 204 (EAST LEG)

DESIGN AGENCY: OHM

DESIGNER: AHH

REVIEWER: SEO 08/15/25

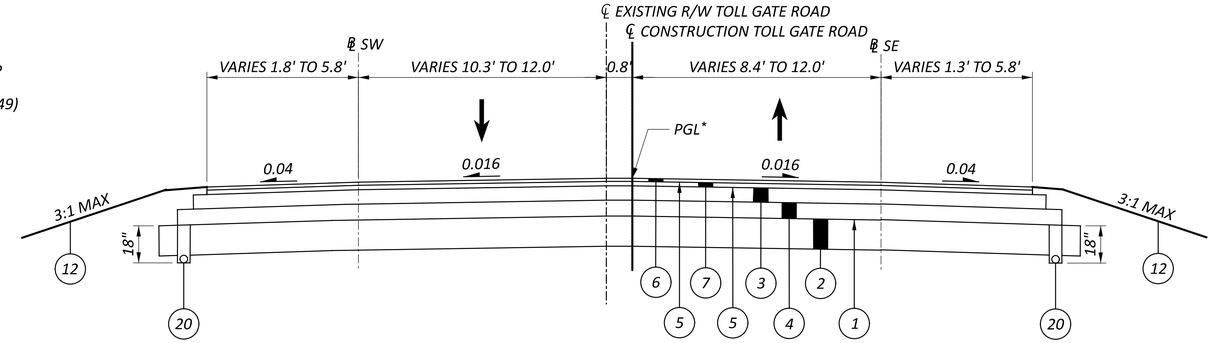
PROJECT ID: 113650

SHEET: P.9 TOTAL: 101

FAI-204-04.30

LEGEND

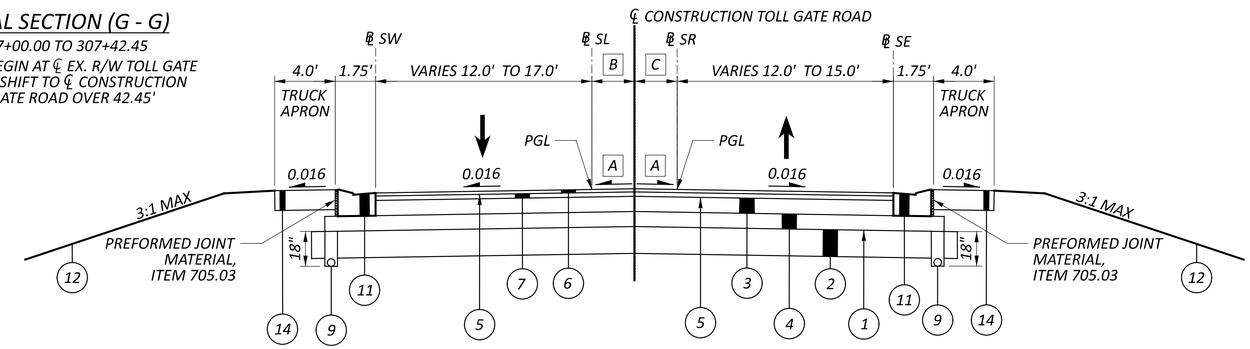
1. ITEM 204 - PROOF ROLLING
2. ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP
3. ITEM 301 - 4" ASPHALT CONCRETE BASE, PG64-22, (449)
4. ITEM 304 - 6" AGGREGATE BASE
5. ITEM 407 - NON-TRACKING TACK COAT
6. ITEM 441 - 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), PG70-22M
7. ITEM 441 - 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (449)
8. ITEM 609 - CONCRETE MEDIAN (6" DEPTH)
9. ITEM 605 - 6" BASE PIPE UNDERDRAIN
10. ITEM 606 - GUARDRAIL, TYPE MGS WITH LONG POSTS
11. ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 9
12. ITEM 659 - SEEDING AND MULCHING
13. ITEM 304 - 13.5" AGGREGATE BASE
14. ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P
15. ITEM 657 - RIPRAP FOR TREE PROTECTION, AS PER PLAN
16. ITEM 204 - GEOTEXTILE FABRIC
17. ITEM 609 - CURB, TYPE 6
18. ITEM 608 - 4" CONCRETE WALK
19. ITEM 608 - CURB RAMP
20. ITEM 605 - 6" UNCLASSIFIED PIPE UNDERDRAIN



NORMAL SECTION (G - G)

STA. 307+00.00 TO 307+42.45

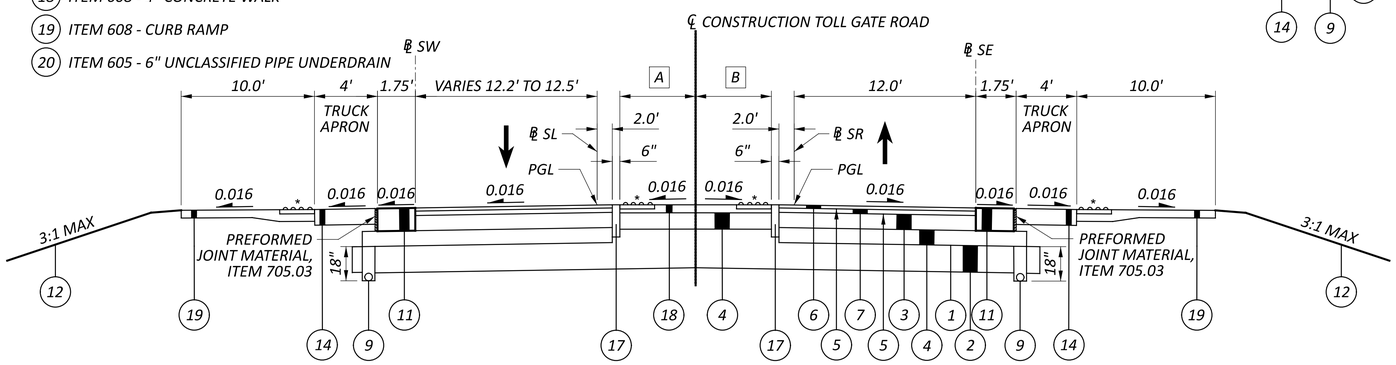
* PGL SHALL BEGIN AT ℄ EX. R/W TOLL GATE ROAD AND SHIFT TO ℄ CONSTRUCTION TOLL GATE ROAD OVER 42.45'



NORMAL SECTION (H - H)

STA. 307+42.45 TO 309+43.76
STA. 310+36.90 TO 310+84.39

- A CROSS SLOPE VARIES
- B VARIES 0.0' TO 9.0'
- C VARIES 0.0' TO 8.5'

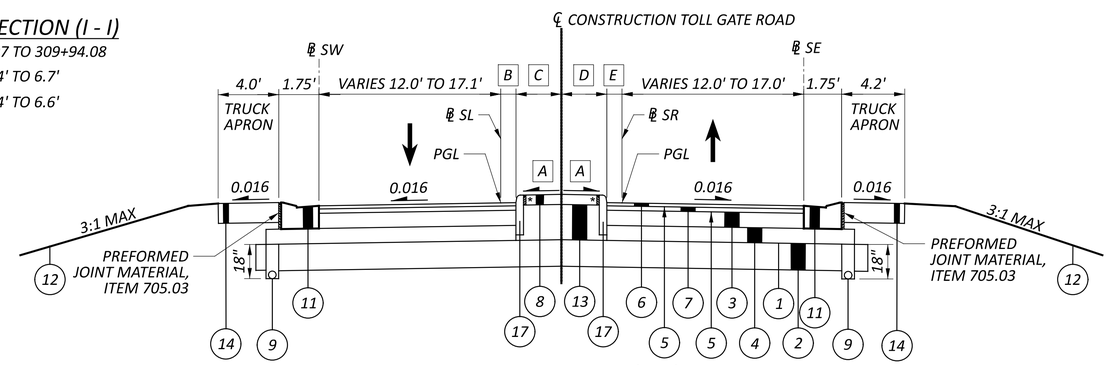


* DETECTABLE WARNINGS

NORMAL SECTION (I - I)

STA. 309+84.07 TO 309+94.08

- A VARIES 6.4' TO 6.7'
- B VARIES 6.4' TO 6.6'

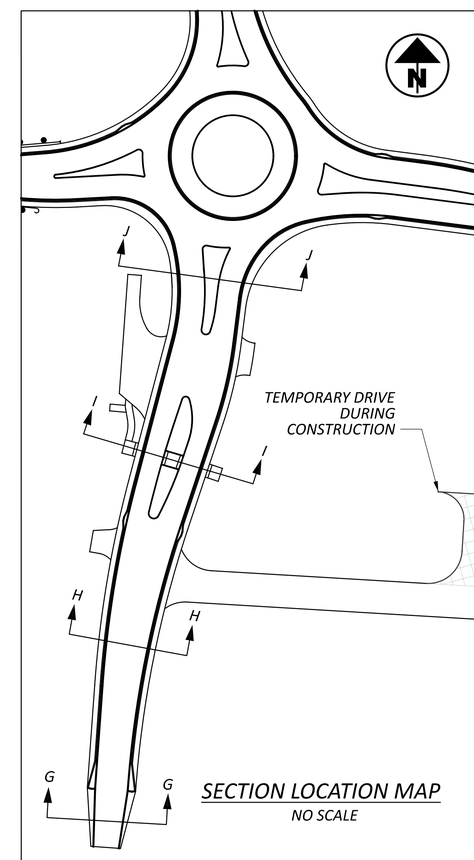


NORMAL SECTION (J - J)

STA. 309+43.76 TO 309+84.07
STA. 309+94.08 TO 310+36.90
STA. 310+84.39 TO 311+49.54

* PREFORMED JOINT MATERIAL, ITEM 705.03

- A CROSS SLOPE VARIES
- B VARIES 1.0' TO 3.7'
- C VARIES 4.7' TO 12.2'
- D VARIES 2.6' TO 7.3'
- E VARIES 1.0' TO 5.7'



SECTION LOCATION MAP

NO SCALE

TYPICAL SECTIONS - TOLL GATE ROAD (SOUTH LEG)

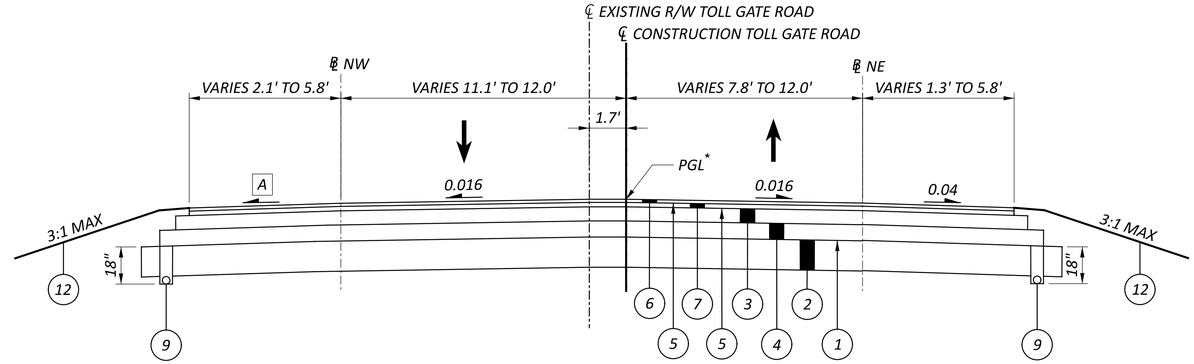
DESIGN AGENCY: OHM

DESIGNER: AHH
REVIEWER: SEO 08/15/25
PROJECT ID: 113650
SHEET: P.10 TOTAL: 101

FAI-204-04.30

LEGEND

1. ITEM 204 - PROOF ROLLING
2. ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP
3. ITEM 301 - 4" ASPHALT CONCRETE BASE, PG64-22, (449)
4. ITEM 304 - 6" AGGREGATE BASE
5. ITEM 407 - NON-TRACKING TACK COAT
6. ITEM 441 - 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), PG70-22M
7. ITEM 441 - 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (449)
8. ITEM 609 - CONCRETE MEDIAN (6" DEPTH)
9. ITEM 605 - 6" BASE PIPE UNDERDRAIN
10. ITEM 606 - GUARDRAIL, TYPE MGS WITH LONG POSTS
11. ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 9
12. ITEM 659 - SEEDING AND MULCHING
13. ITEM 304 - 13.5" AGGREGATE BASE
14. ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P
15. ITEM 657 - RIPRAP FOR TREE PROTECTION, AS PER PLAN
16. ITEM 204 - GEOTEXTILE FABRIC
17. ITEM 609 - CURB, TYPE 6
18. ITEM 608 - 4" CONCRETE WALK
19. ITEM 608 - CURB RAMP
20. ITEM 605 - 6" UNCLASSIFIED PIPE UNDERDRAIN

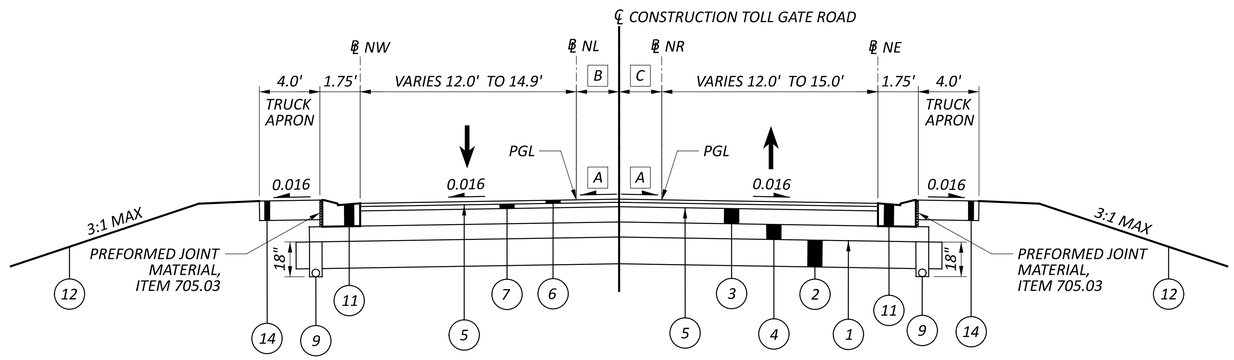


NORMAL SECTION (M - M)

STA. 315+91.39 TO 316+50.96

A VARIES 0.016 TO 0.04

* PGL SHALL BEGIN AT ℄ CONSTRUCTION TOLL GATE ROAD AND SHIFT TO ℄ EX. R/W TOLL GATE ROAD OVER 59.57'



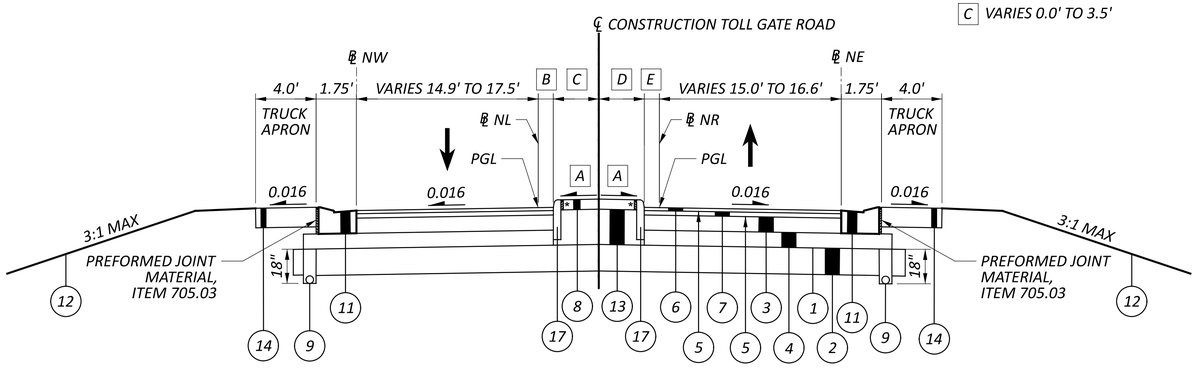
NORMAL SECTION (L - L)

STA. 313+82.11 TO 315+91.39

A CROSS SLOPE VARIES

B VARIES 0.0' TO 4.5'

C VARIES 0.0' TO 3.5'



NORMAL SECTION (K- K)

STA. 312+83.33 TO 313+82.11

* PREFORMED JOINT MATERIAL, ITEM 705.03

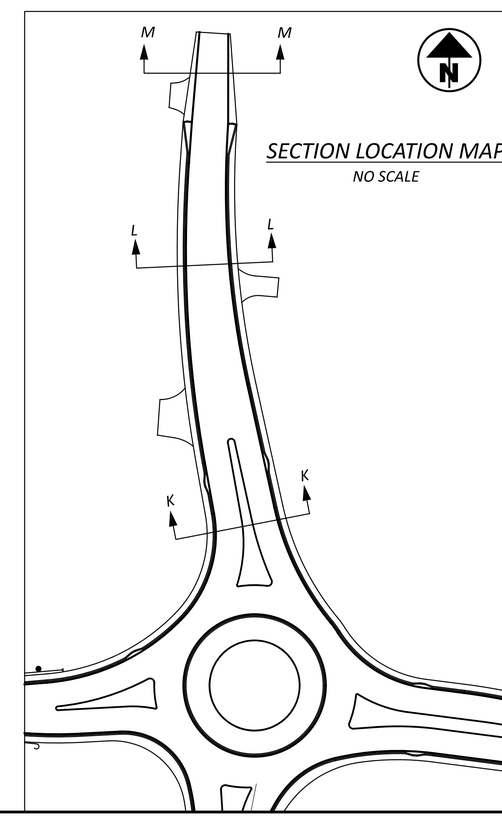
A CROSS SLOPE VARIES

B 2.0'

C VARIES 2.5' TO 13.9'

D VARIES 2.5' TO 9.7'

E 1.0'



SECTION LOCATION MAP

NO SCALE

TYPICAL SECTIONS - TOLL GATE ROAD (NORTH LEG)

DESIGN AGENCY: OHM

DESIGNER: AHH

REVIEWER: SEO 08/15/25

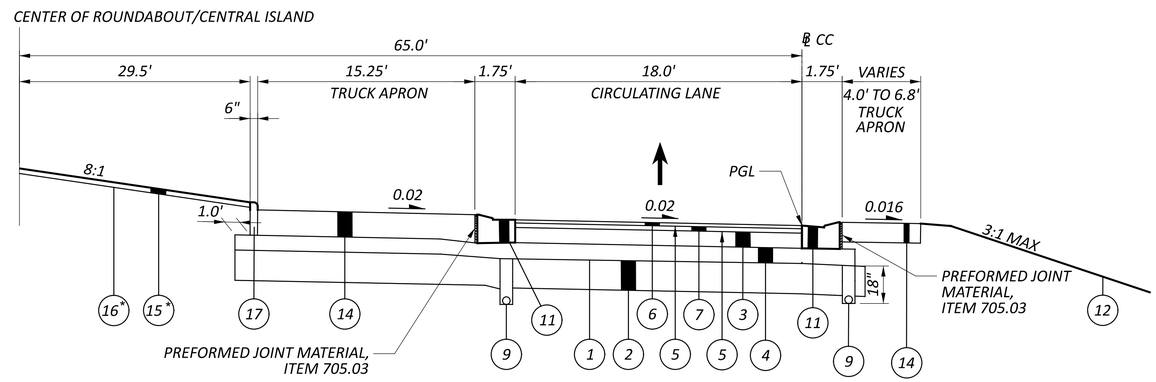
PROJECT ID: 113650

SHEET: P.11 TOTAL: 101

FAI-204-04.30

LEGEND

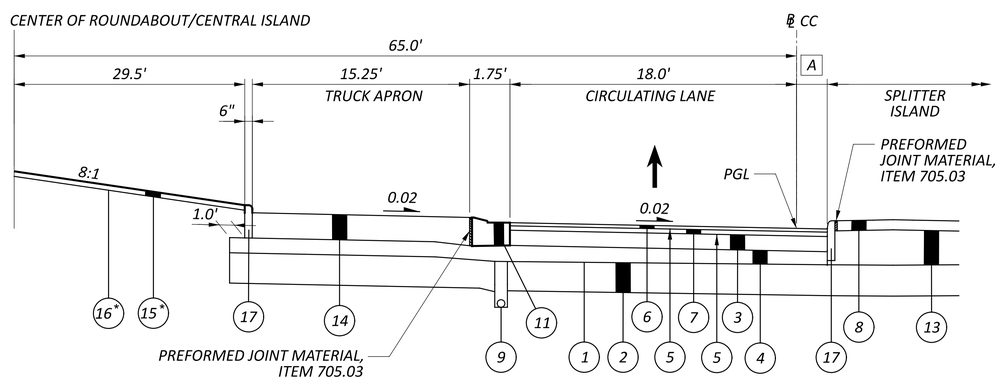
1. ITEM 204 - PROOF ROLLING
2. ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP
3. ITEM 301 - 4" ASPHALT CONCRETE BASE, PG64-22, (449)
4. ITEM 304 - 6" AGGREGATE BASE
5. ITEM 407 - NON-TRACKING TACK COAT
6. ITEM 441 - 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), PG70-22M
7. ITEM 441 - 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (449)
8. ITEM 609 - CONCRETE MEDIAN (6" DEPTH)
9. ITEM 605 - 6" BASE PIPE UNDERDRAIN
10. ITEM 606 - GUARDRAIL, TYPE MGS WITH LONG POSTS
11. ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 9
12. ITEM 659 - SEEDING AND MULCHING
13. ITEM 304 - 13.5" AGGREGATE BASE
14. ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P
15. ITEM 657 - RIPRAP FOR TREE PROTECTION, AS PER PLAN
16. ITEM 204 - GEOTEXTILE FABRIC
17. ITEM 609 - CURB, TYPE 6
18. ITEM 608 - 4" CONCRETE WALK
19. ITEM 608 - CURB RAMP
20. ITEM 605 - 6" UNCLASSIFIED PIPE UNDERDRAIN



ROUNDABOUT (N - N)

STA. 100+00.00 TO 400+08.20

* SEE LANDSCAPING PLAN FOR DETAILS

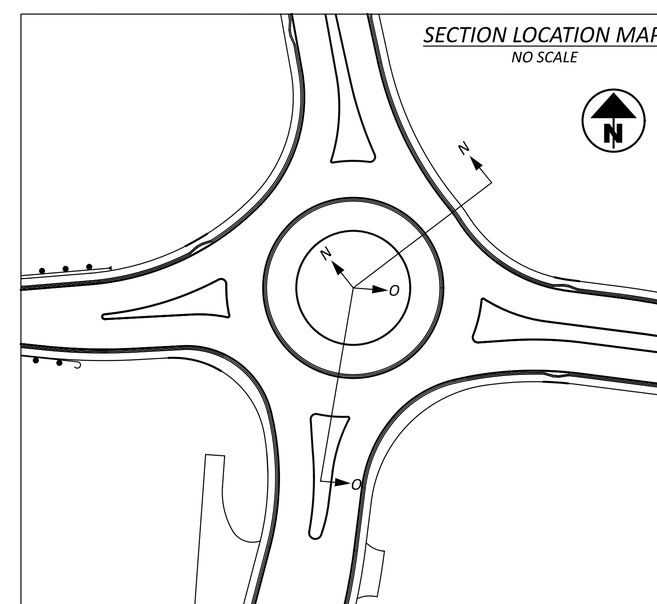


ROUNDABOUT (O - O)

SAT. 102+85.29 TO 103+04.95

A VARIES 2.1' TO 3.2'

* SEE LANDSCAPING PLAN FOR DETAILS



TYPICAL SECTIONS - ROUNDABOUT

DESIGN AGENCY
OHM

DESIGNER
AHH

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.12 TOTAL 101

FAI-204-04.30

UTILITIES

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

THE ENERGY COOP (NATURAL GAS)
120 O'NEIL DR
NEWARK, OH 43025
ATTN: WILL POLING
740-641-8751
WPOLING@THEENERGYCOOP.COM

FAIRFIELD COUNTY UTILITIES (WATER)
6670 LOCKVILLE RD
CARROLL, OH 43112
ATTN: JOSH ANDERS
614-322-5200
JOSH.ANDERS@FAIRFIELDCOUNTYOHIO.GOV

SOUTH CENTRAL POWER (ELECTRIC)
720 MILL PARK DR
LANCASTER, OH 43130
ATTN: AARON GASSNER
740-689-6150
GASSNER@SOUTHCENTRALPOWER.COM

THE FOLLOWING UTILITY OWNERS WERE CONTACTED VIA OHIO811 LOCATION REQUEST AND RESPONDED WITH 'NO CONFLICT SITE CLEAR':

AT&T OHIO (TELECOM)
160 NORTH SIXTH STREET
ZANESVILLE, OHIO 43701
ATTN: HEATH BULLOCK
740-454-3552
HB4187@ATT.COM

BRIGHTSPEED (FORMERLY LUMEN)
441 WEST BROAD STREET
PATASKALA, OHIO 43062
ATTN: TRACY DZUGAN
TRACY.L.DZUGAN@BRIGHTSPEED.COM
419-755-8926
RELOCATIONS@BRIGHTSPEED.COM

ARTEX OIL COMPANY
5337 STATE ROUTE 821
MARIETTA, OH 45750
ATTN: NO DATA
740-373-3313
AOC@ARTEXOIL.COM

FAIRFIELD COUNTY UTILITIES (SEWER)
6670 LOCKVILLE RD
CARROLL, OH 43112
ATTN: TONY VOGEL
740-652-7120
TONY.VOGEL@FAIRFIELDCOUNTYOHIO.GOV

CHARTER/SPECTRUM COMMUNICATIONS (TELECOM)
737 HOWARD STREET
ZANESVILLE, OHIO 43704
ATTN: NATHAN QUINN
NATHAN.QUINN@CHARTER.COM
DLMOHCONSTRUCTIONNEWARK@CHARTER.COM

UNDERGROUND UTILITIES

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITIES AS REQUIRED BY SECTION 153.64 OF THE OHIO REVISED CODE.

AT LEAST 48 HOURS BEFORE DIGGING, THE CONTRACTOR SHALL CALL THE OHIO UTILITIES PROTECTION SERVICE AT THE NUMBER LISTED ON THE TITLE SHEET. NON-MEMBER UTILITY COMPANIES MUST BE CALLED DIRECTLY. THE NAMES AND ADDRESSES OF THE UTILITIES LOCATED WITHIN THE PROJECT CONSTRACTION LIMITS ARE LISTED ON THIS SHEET.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE BELOW FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

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

PROJECT CONTROL

POSITIONING METHOD: LOCAL RTK AND CONVENTIONAL TOTAL STATION OF ODOT RTN-ESTABLISHED MONUMENTS SV100-SV104
MONUMENT TYPE: IRON PIN SET W/ALUMINUM CAP; FOUND CONCRETE MONUMENT

SURVEYING PARAMETERS (CONTINUED)

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID 18

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO COUNTY COORDINATE SYSTEM, FAIRFIELD LDP
COMBINED SCALE FACTOR: 1.000037 (GRID TO GROUND)
ORIGIN OF COORDINATE SYSTEM: GRID COORDINATES SCALED ABOUT FALSE EASTING 50,000m, FALSE NORTHING 10,000m
SCALE FACTOR AND ORIGIN TAKEN FROM COUNTY COORDINATE SYSTEM DATASHEET PROVIDED BY ODOT

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

UNITS ARE IN U.S. SURVEY FEET.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 623 RIGHT-OF-WAY MONUMENT, TYPE B	10 EACH
ITEM 623 PRECONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	LS
ITEM 623 POST CONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	LS

WORK LIMITS

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

ROUNDING

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

PROTECTION OF RIGHT-OF-WAY LANDSCAPING

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

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

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA.

PROTECTION OF RIGHT-OF-WAY LANDSCAPING (CONTINUED)

USE OF THESE AREAS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED.
THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.
ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS, AS DEFINED ABOVE, WILL BE REPLACED IN KIND OR AS APPROVED BY THE PROJECT ENGINEER.

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 - PROOF ROLLING	8 HOUR.

SEEDING AND MULCHING

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

659, SOIL ANALYSIS TEST	2 EACH
659, TOPSOIL	639 CU. YD.
659, SEEDING AND MULCHING	5756 SQ. YD.
659, REPAIR SEEDING AND MULCHING	288 SQ. YD.
659, INTER-SEEDING	288 SQ. YD.
659, COMMERCIAL FERTILIZER	0.78 TON
659, LIME	1.19 ACRES
659, WATER	16 M. GAL.
659, MOWING	13 M. SQ.FT.

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.

CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	20	0	20
30"	0	0	0
48"	0	0	0
60"	0	0	0

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS.

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

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH REROUNDABLE RETROREFLECTIVE SHEETING, PER CMS 730.191.

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. 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.

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.

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.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

GENERAL NOTES

DESIGN AGENCY
OHM

DESIGNER
AHH

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.13 TOTAL 101

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PIPE CONNECTIONS TO CORRUGATED METAL STRUCTURES

PROVIDE CONNECTIONS OF PROPOSED LONGITUDINAL DRAINAGE TO CORRUGATED METAL STRUCTURES BY MEANS OF A SHOP FABRICATED OR FIELD WELDED STUB ON THE STRUCTURE. FURNISH A STUB MEETING THE REQUIREMENTS OF 707 WITH A MINIMUM LENGTH OF 2 FEET AND A MINIMUM WALL THICKNESS OF 0.064 INCHES.

THE LOCATION AND ELEVATION OF THE STUB ARE TO BE CONSIDERED APPROXIMATE AND MAY BE ADJUSTED BY THE ENGINEER TO AVOID CUTTING THROUGH JOINTS IN THE STRUCTURE.

THOROUGHLY CLEAN AND REGALVANIZE OR OTHERWISE SUITABLY REPAIR THE FIELD WELDED JOINT, IF USED. MEET WELDING REQUIREMENTS OF 513.21.

PROVIDE A MASONRY COLLAR PER STANDARD CONSTRUCTION DRAWING DM-1.1, TO CONNECT THE LONGITUDINAL DRAINAGE TO THE STUB, WHEN PIPE OTHER THAN CORRUGATED METAL IS USED FOR THE LONGITUDINAL DRAINAGE.

PAYMENT FOR CUTTING INTO THE STRUCTURE AND PROVIDING THE CONNECTION DESCRIBED, IS INCLUDED IN THE CONTRACT PRICE FOR ITEM 611 OR 522.

REVIEW OF DRAINAGE FACILITIES

PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE, PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY THE DEPARTMENT.
CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

ENVIRONMENTAL COMMITMENTS

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

DO NOT PLACE ANY TEMPORARY OR PERMANENT FILL WITHIN THE JURISDICTIONAL BOUNDARIES OF ALL STREAMS, WETLANDS, AND JURISDICTIONAL DITCHES DURING CONSTRUCTION OF THIS PROJECT, INCLUDING SCAFFOLDING OR BRACING. DO NOT PLACE ANY EQUIPMENT WITHIN THE JURISDICTIONAL BOUNDARY OF ANY WATERWAY. THIS PROJECT DOES NOT INCLUDE ANY IMPACTS TO "WATERS OF THE U.S." AND THEREFORE NO IMPACTS WILL BE PERMITTED.

ITEM SPECIAL - MAILBOX REMOVED AND RESET

THIS WORK SHALL CONSIST OF REMOVING EXISTING MAILBOX SUPPORTS AND FURNISHING AND ERECTING NEW MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFORM TO AASHTO M 181.

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT REMOVED AND RESET.

EXISTING DITCH EXCAVATION

WHERE EXISTING DRAINAGE DITCHES ARE TO BE COVERED AND FILLED DUE TO PROPOSED WORK IN THESE PLANS, THE CONTRACTOR SHALL EXCAVATE A MINIMUM OF TWO (2) FEET BELOW THE EXISTING SURFACE AND REPLACE IN ACCORDANCE WITH 203 REQUIREMENTS. THE FOLLOWING QUANTITIES ARE INCLUDED IN THE GENERAL SUMMARY FOR THIS WORK:

ITEM 203 - EXCAVATION, AS PER PLAN, DITCH UNDERCUT	845 CY
ITEM 203 - EMBANKMENT, AS PER PLAN, DITCH UNDERCUT	845 CY

ITEM 206 - CEMENT STABILIZED SUBGRADE

THE CEMENT STABILIZED SUBGRADE IS REQUIRED AS PART OF THE STRUCTURAL DESIGN OF THE PAVEMENT. ANY CHANGES TO THE STABILIZATION MAY REQUIRE ADDITIONAL PAVEMENT THICKNESS. CONTACT THE OFFICE OF PAVEMENT ENGINEERING PRIOR TO ANY NON-PERFORMANCE OR CHANGES TO THE CEMENT STABILIZED SUBGRADE.

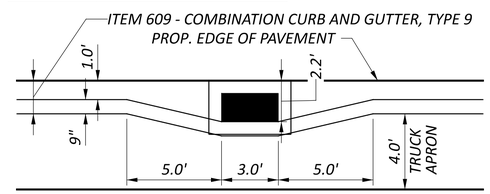
POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT. FOR DETAILS SEE SHEETS 24, 70, & 71.

ITEM 611 - CATCH BASIN, NO. 6, AS PER PLAN

THE CONTRACTOR SHALL CONSTRUCT NO. 6 CATCH BASINS IN ACCORDANCE WITH THE DETAIL BELOW. THE COST FOR DIVERTING THE COMBINATION CURB AND GUTTER AT THE CATCH BASINS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 611 - CATCH BASIN, TYPE 6, AS PER PLAN.

CATCH BASIN, NO. 6, AS PER PLAN DETAIL



ITEM 202 - REMOVAL MISC.: LIGHT POLE

WHERE EXISTING LIGHT POLES ARE TO BE REMOVED DUE TO PROPOSED WORK IN THESE PLANS, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE LIGHT POLE AND CONNECTIONS IN ACCORDANCE WITH 202 REQUIREMENTS.

PAYMENT FOR ALL OF THE ABOVE WORK SHALL BE AT THE UNIT PRICE BID PER EACH FOR THE ABOVE ITEM, WHICH INCLUDES ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK.

ITEM 202 - REMOVAL MISC.: STONE PILLARS WITH LIGHTS

THIS ITEM SHALL BE USED TO REMOVE THE EXISTING STONE PILLARS WITH LIGHTS AS SHOWN IN THE PLANS ON PARCEL 18.

PAYMENT FOR ALL OF THE ABOVE WORK SHALL BE AT THE UNIT PRICE BID PER EACH FOR THE ABOVE ITEM, WHICH INCLUDES ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK.

ITEM 202 - REMOVAL MISC.: IN-GROUND LIGHTS

THIS ITEM SHALL BE USED TO REMOVE THE EXISTING IN-GROUND LIGHTS AS SHOWN IN THE PLANS ON PARCEL 18.

PAYMENT FOR ALL OF THE ABOVE WORK SHALL BE AT THE UNIT PRICE BID PER EACH FOR THE ABOVE ITEM, WHICH INCLUDES ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK.

ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ITEM 623, CONSTRUCTION LAYOUT STAKES AND SURVEYING, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION TO THE DEPARTMENT:

THE CONTRACTOR SHALL PROVIDE AS-BUILT DATA FOR THE SPECIFIED COMPLETED CONSTRUCTION ITEMS IN OHIO STATE PLANE COORDINATES (GRID), THE CONSTRUCTION ITEMS SHALL BE LOCATED AS PER THE SURVEY FEATURE CODE LIST FOUND ON THE OHIO DEPARTMENT OF TRANSPORTATION OFFICE OF CADD & MAPPING SERVICES WEBSITE. AFTER ALL INFORMATION HAS BEEN COLLECTED, AN EMAIL CONTAINING A COMMA DELIMITED ASCII FILE AND A SURVEYOR'S CERTIFICATION SHALL BE DELIVERED TO:

CODY. GIERHART@DOT.OHIO.GOV (D5 GIS COORDINATOR) AND NATINA.ARISS@DOT.OHIO.GOVE (D5 CONSTRUCTION AREA ENGINEER)

THE ASCII FILE SHALL INCLUDE A HEADER CONTAINING:

NAME OF SURVEYOR
DATE(S) OF COLLECTION
HORIZONTAL DATUM (I.E. NAD83 (2011), OHIO SPCS NORTH OR SOUTH)
VERTICAL DATUM (I.E. NAVD 88, GEOID12A)
METHOD OF COLLECTION (I.E. OHIO VRS, GPS RTK, TOTAL STATION, ETC)

THE ASCII FILE SHALL BE IN TABLE FORM AS FOLLOWS:

PT. NO./NORTHING/EASTING/ELEVATION/FEATURE CODE/DESCRIPTION

BELOW IS A LIST OF THE ITEMS THE CONTRACTOR SHALL PROVIDE FOR THIS PROJECT:

- POST CONSTRUCTION BMP
- GUARDRAIL
- UNDERDRAIN OUTLETS
- LIGHT POLES
- SIGNS

THE ABOVE ITEMS SHALL BE COLLECTED USING SURVEY GRADE EQUIPMENT MEETING THE REQUIREMENTS OF SECTION 400 IN THE ODOT SURVEY & MAPPING SPECIFICATIONS MANUAL.

ALL COSTS ASSOCIATED WITH OBTAINING THE INFORMATION LISTED ABOVE SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 623, CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN.

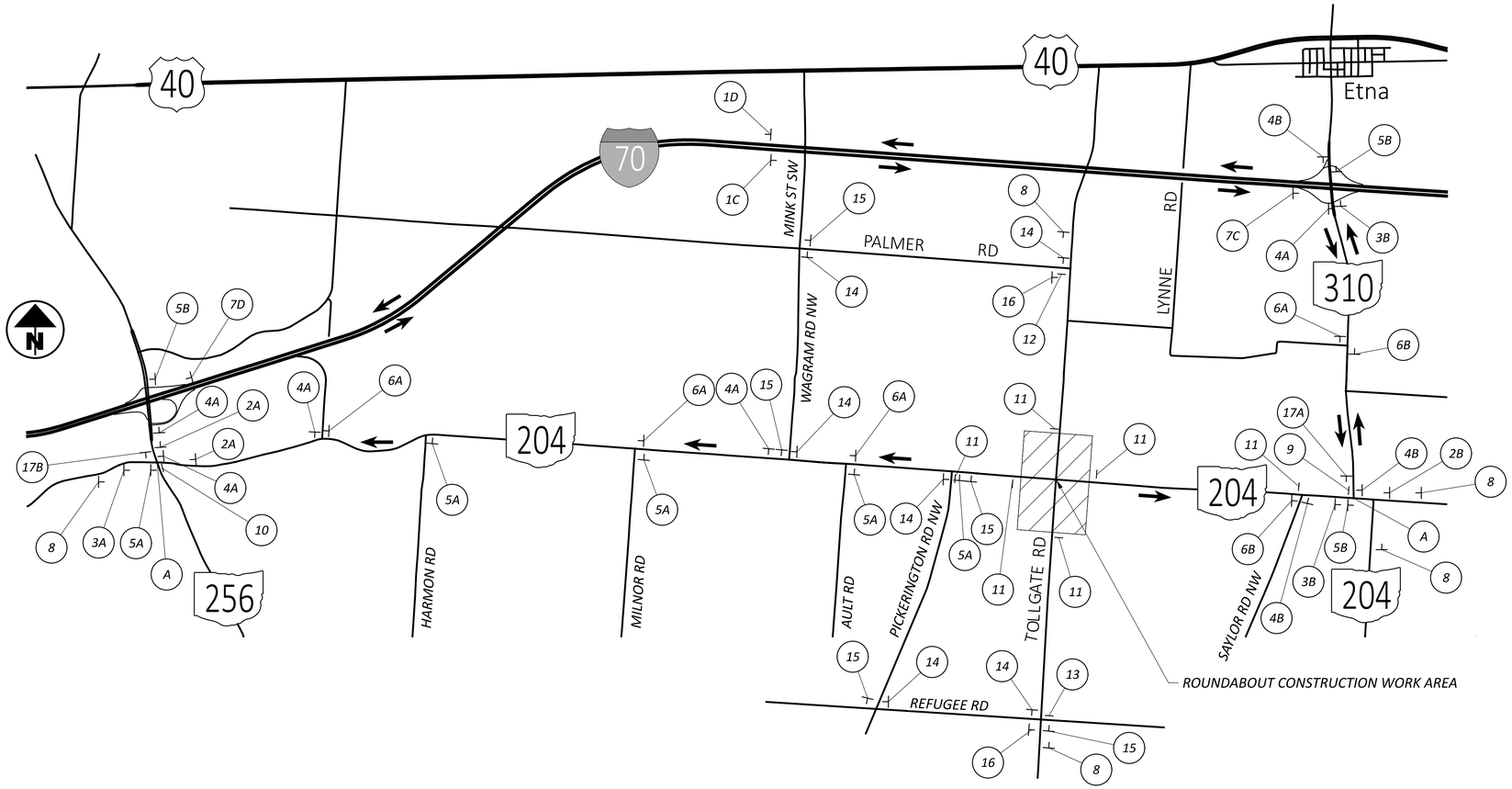
THE FOLLOWING QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY TO PERFORM THE WORK DESCRIBED ABOVE:

ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN

GENERAL NOTES

DESIGN AGENCY
OHM

DESIGNER AHH
REVIEWER SEO 08/15/25
PROJECT ID 113650
SHEET P.14 TOTAL 101



NOTE:

PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) INDICATED BY CALLOUT "A" ON DETOUR PLAN.

ITEM 614 - DETOUR SIGNING

THIS ITEM SHALL BE USED TO PAY FOR ALL SIGNING ASSOCIATED WITH THE DETOUR PLAN SHOWN ON THIS SHEET.

PAYMENT FOR ALL OF THE ABOVE WORK SHALL BE AT THE UNIT PRICE BID AS A LUMP SUM FOR THE ABOVE ITEM, WHICH INCLUDES ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK.

1 — DETOUR — M4-8-30 — 204 — M1-5-36-3

2 — DETOUR — M4-8-24 — 204 — M1-5-30-3 — M5-1R-21

3 — DETOUR — M4-8-24 — 204 — M1-5-30-3 — M5-1L-21

4 — DETOUR — M4-8-24 — 204 — M1-5-30-3 — M6-1R-21

5 — DETOUR — M4-8-24 — 204 — M1-5-30-3 — M6-1L-21

6 — DETOUR — M4-8-24 — 204 — M1-5-30-3 — M6-3-21

7 — DETOUR — M4-8-30 — 204 — M1-5-36-3 — M6-2-30

A — EAST — M3-2-24

B — WEST — M3-4-24

C — EAST — M3-2-36

D — WEST — M3-4-36

8 — DETOUR AHEAD — W20-2-36

9 — WITH TYPE III BARRICADE — ROAD CLOSED / 1.4 MILES AHEAD / LOCAL TRAFFIC ONLY — R11-3a-60 — DETOUR — M4-10R-48

10 — WITH TYPE III BARRICADE — ROAD CLOSED / 4.3 MILES AHEAD / LOCAL TRAFFIC ONLY — R11-3a-60 — DETOUR — M4-10L-48

11 — WITH TYPE III BARRICADE — ROAD CLOSED / LOCAL TRAFFIC ONLY — R11-3-66

12 — WITH TYPE III BARRICADE — ROAD CLOSED / 1.0 MILES AHEAD / LOCAL TRAFFIC ONLY — R11-3a-60 — DETOUR — M4-10R-48

13 — WITH TYPE III BARRICADE — ROAD CLOSED / 1.5 MILES AHEAD / LOCAL TRAFFIC ONLY — R11-3a-60 — DETOUR — M4-10L-48

14 — TOLL GATE RD / DETOUR — M4-9R-30

15 — TOLL GATE RD / DETOUR — M4-9L-30

16 — TOLL GATE RD / END DETOUR — M4-8a-24

17 — END — M4-6-24 — DETOUR — M4-8-24 — 204 — M1-5-30-3

MAINTENANCE OF TRAFFIC DETOUR PLAN

DESIGN AGENCY: WOOLPERT

DESIGNER: AC

REVIEWER: GPD 08/15/25

PROJECT ID: 113650

SHEET: P.15 TOTAL: 101

FAI-204-04.30

ITEM 614, MAINTAINING TRAFFIC

TRAFFIC SHALL BE MAINTAINED DURING CONSTRUCTION VIA DETOUR AS SHOWN ON THE MAINTENANCE OF TRAFFIC DETOUR PLAN.

PEDESTRIAN ACCESS FOR THE FAMILY CHURCH OF PICKERINGTON SHALL BE MAINTAINED BY PLACING GRAVEL TO MAINTAIN ACCESS TO THE CHURCH DRIVE FROM THE PARKING LOT ACROSS FROM THE CHURCH. SIGNAGE SHALL BE INSTALLED TO DESIGNATE AN APPROPRIATE PEDESTRIAN ROUTE DURING CONSTRUCTION. THE CONTRACTOR SHALL ADJUST THE PEDESTRIAN ACCESS ROUTE AND ASSOCIATED SIGNAGE DURING CONSTRUCTION TO MAINTAIN SAFE PEDESTRIAN ACCESS. THIS WORK SHALL BE INCLUDED IN ITEM 614, MAINTAINING TRAFFIC.

THE CONTRACTOR WILL ADVISE THE PROJECT ENGINEER A MINIMUM OF TWENTY-ONE (21) DAYS PRIOR TO THE FOLLOWING: THE START OF CONSTRUCTION ACTIVITIES, LANE RESTRICTIONS, LANE CLOSURES, AND/OR ROAD CLOSURES. THE PROJECT ENGINEER WILL FORWARD THIS INFORMATION TO THE FOLLOWING:

DISTRICT PUBLIC INFORMATION OFFICER (PIO)
BY FAX AT (614) 887-4510 OR
EMAIL AT D05.PIO@DOT.OHIO.GOV

DISTRICT PERMIT SECTION
BY FAX AT (614) 887-4525 OR
EMAIL AT BRIAN.BOSCH@DOT.OHIO.GOV

CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION
BY FAX AT (614) 728-4099 OR
EMAIL AT HAULING.PERMITS@DOT.OHIO.GOV

THE PIO WILL, IN TURN, NOTIFY THE PUBLIC, THE LOCAL EMERGENCY SERVICES, AFFECTED SCHOOLS AND BUSINESSES, AND ANY OTHER IMPACTED LOCAL PUBLIC AGENCY OF ANY OF THE ABOVE-MENTIONED ITEMS, VIA MEDIA SOURCES.

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

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 21 M. GAL.

INCENTIVE/DISINCENTIVE CONTRACT TABLE

THIS PROJECT SHALL DETOUR TRAFFIC ON SR 204 AND TOLL GATE ROAD ONLY BETWEEN THE DATES SHOWN BELOW IN THE TABLE. THE FULL CLOSURE SHALL NOT BEGIN UNTIL PICKERINGTON CITY SCHOOLS 2025/2026 SCHOOL YEAR IS COMPLETE. THIS PROJECT SHALL DETOUR TRAFFIC ONLY BETWEEN JUNE 1, 2026 AND THE DATE SHOWN BELOW IN THE TABLE.

INCENTIVE/DISINCENTIVE CONTRACT TABLE					
DESCRIPTION AND LOCATION OF CRITICAL WORK	COMPLETION DATE	TIME PERIOD	INCENTIVE $ PER DAY	DISINCENTIVE $ PER DAY	MAXIMUM INCENTIVE $
ROUNDABOUT CONSTRUCTION AT INTERSECTION OF SR 204/TOLL GATE ROAD. TWO (2) LANES OF SR 204 AND TOLL GATE ROAD CLOSED WITHIN WORK LIMITS.	OCTOBER 15, 2026	DAY	$5,000/DAY	$5,000/DAY	$70,000 (+/- 14 DAYS)

ITEM 614, MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW.

SR 204 WILL BE
CLOSED AT TOLL GATE RD
FOR 120 DAYS
INFO: 740-323-4400

W20-H13-60

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

NOTICE OF CLOSURE SIGN TIME TABLE		
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURES	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	7 CALENDR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

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

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

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

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

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN (CONT.)

THE PROBABLE PCMS LOCATIONS AND WORK LIMITS FOR THOSE LOCATIONS ARE SHOWN ON SHEET P.15 OF THE PLAN. PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

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

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

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

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF C&MS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

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

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

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 12 SIGN MONTH ASSUMING 2 PCMS SIGNS FOR 24 MONTHS

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.

NOTICE OF CLOSURE SIGN TIME TABLE		
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURES	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	7 CALENDR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION TRAFFIC PATERN 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.

MAINTAINING DRIVES

DRIVES SHALL BE MAINTAINED AT ALL TIMES. ANY WORK THAT WILL REQUIRE A DRIVE TO BE INACCESSIBLE SHALL BE COORDINATED WITH THE HOMEOWNER BY THE CONTRACTOR. THE FOLLOWING ESTIMATED QUANTITIY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR ANY TEMPORARY DRIVE WORK THAT MAY BE REQUIRED TO ACCOMPLISH THIS WORK:

ITEM 410, TRAFFIC COMPACTED SURFACE, TYPE A 50 CY
ITEM 410, TRAFFIC COMPACTED SURFACE, TYPE B 50 CY

THE EXISTING CHURCH DRIVE ON SR 204 (SW QUADRANT) SHALL NOT BE REMOVED UNTIL THE ROUNDABOUT IS OPEN TO TRAFFIC. THE FAMILY CHURCH OF PICKERINGTON AND LIFE CITY CHURCH SHALL BE NOTIFIED AT LEAST 2 WEEKS IN ADVANCE OF WHEN THIS DRIVE IS TO BE REMOVED.

MAINTENANCE OF TRAFFIC NOTES

DESIGN AGENCY
WOOLPERT

DESIGNER AC
REVIEWER GPD 08/15/25
PROJECT ID 113650
SHEET P.16 TOTAL 101

FAI-204-04.30

MAINTENANCE OF DETOUR ROUTES

THE OFFICIAL, LOCAL SIGNED DETOUR ROUTE HAS BEEN ESTABLISHED. THIS ROUTE IS SHOWN ON P.15.

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

THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED FOR USE AS DETERMINED BY THE ENGINEER TO MAINTAIN AND SUBSEQUENTLY RESTORE THE DETOUR ROUTES.

ITEM 251, PARTIAL DEPTH PAVEMENT REPAIR (441), AS PER PLAN	*200 SQ. YD.*
ITEM 253, PAVEMENT REPAIR, AS PER PLAN	*200 SQ. YD.*
ITEM 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449) PG 64-22, AS PER PLAN	*50 CU. YD.*
ITEM 617, COMPACTED AGGREGATE	*40 CU. YD.*
ITEM 642, EDGE LINE, 4", TYPE	*11.00 MILE*
ITEM 642, CENTER LINE, TYPE	*10.50 MILE*

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (441), AS PER PLAN

THE CONTRACTOR SHALL CLEAN THE MILLED SURFACE AND THE ENGINEER SHALL IDENTIFY AREAS REQUIRING PARTIAL DEPTH PAVEMENT REPAIR AFTER THE WEARING COURSE IS REMOVED. ALL APPLICABLE PROVISIONS OF ITEM 251, AS SET FORTH IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS, SHALL APPLY EXCEPT AS MODIFIED HEREIN.

REMOVAL DEPTH SHALL BE THREE (3) INCHES OR AS DIRECTED BY THE ENGINEER AND THE REPLACEMENT MATERIAL SHALL BE ITEM 441 - ASPHALT CONRETE INTERMEDIATE COURSE, TYPE 2, (448).

ITEM 253 - PAVEMENT REPAIR, AS PER PLAN

THIS ITEM SHALL BE USED AT THE DIRECTION OF THE ENGINEER TO PERFORM FULL DEPTH REPAIRS ALONG PORTIONS OF THE PROPOSED DETOUR ROUTE.

PAVEMENT REPAIRS SHALL BE PERFORMED IN ACCORDANCE WITH ITEM 253. THE ENGINEER SHALL DESIGNATE THE LOCATIONS AND LIMITS OF THE AREAS TO BE REPAIRED. THE AREAS SHALL BE SAWED OR MILLED TO A DEPTH OF 13". THE REPLACEMENT MATERIAL SHALL BE 3" OF ITEM 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), PG-22 (PLACED IN TWO LIFTS), 4" OF ITEM 301, ASPHALT CONCRETE CASE (449), AND 6" OF ITEM 304, AGGREGATE BASE. THE FINISHED SURFACE SHALL MATCH THE EXISTING PAVEMENT SURFACE.

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

THIS ITEM SHALL BE USED AT THE DIRECTION OF THE ENGINEER TO PERFORM AN OVERLAY ALONG PORTIONS OF THE PROPOSED DETOUR ROUTE.

OVERLAYS SHALL BE PERFORMED IN ACCORDANCE WITH ITEM 441. THE ENGINEER SHALL DESIGNATE THE LOCATIONS AND LIMITS OF THE AREAS TO BE OVERLAID. THE AREAS SHALL BE COATED WITH A NON-TRACKING TACK COAT PER ITEM 407 PRIOR TO PLACEMENT OF THE OVERLAY. THE OVERLAY MATERIAL SHALL BE ITEM 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22. THE THICKNESS SHALL BE AS SPECIFIED BY THE ENGINEER.

SHEET NUMBER													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
13	14		21	22	24		52		65				01/SAF						
																		ROADWAY	
LS													LS	201	11000	LS		CLEARING AND GRUBBING	13
			2										2	202	20010	2	EACH	HEADWALL REMOVED	
				5,715					143				5,858	202	23000	5,858	SY	PAVEMENT REMOVED	
			172										172	202	35100	172	FT	PIPE REMOVED, 24" DIAMETER AND UNDER	
			328										328	202	38000	328	FT	GUARDRAIL REMOVED	
			2										2	202	42010	2	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E	
			1										1	202	53100	1	EACH	MAILBOX REMOVED	
			2										2	202	58100	2	EACH	CATCH BASIN REMOVED	
			4										4	202	75610	4	EACH	VALVE BOX REMOVED	
			2										2	202	98100	2	EACH	REMOVAL MISC.:LIGHT POLE	14
			2										2	202	98100	2	EACH	REMOVAL MISC.:STONE PILLARS WITH LIGHTS	14
			2										2	202	98100	2	EACH	REMOVAL MISC.:IN-GROUND LIGHTS	14
							2,557		289				2,846	203	10000	2,846	CY	EXCAVATION	
							2,028						2,028	203	20000	2,028	CY	EMBANKMENT	
					208								208	203	10001	208	CY	EXCAVATION, AS PER PLAN, BIORETENTION CELL	72
	845												845	203	10001	845	CY	EXCAVATION, AS PER PLAN, DITCH UNDERCUT	14
	845												845	203	20001	845	CY	EMBANKMENT, AS PER PLAN, DITCH UNDERCUT	14
8													8	204	45000	8	HOUR	PROOF ROLLING	
				197									197	206	10500	197	TON	CEMENT	
				7,613									7,613	206	11000	7,613	SY	CURING COAT	
				7,613									7,613	206	15010	7,613	SY	CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP	14
			250										250	606	15100	250	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS	
			1										1	606	26150	1	EACH	ANCHOR ASSEMBLY, MGS TYPE E	13
			1										1	606	26550	1	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
			337										337	608	10000	337	SF	4" CONCRETE WALK	
			200										200	608	52000	200	SF	CURB RAMP	
			40										40	608	53020	40	SF	DETECTABLE WARNING	
9													9	623	40520	9	EACH	RIGHT-OF-WAY MONUMENT, TYPE B	
LS													LS	623	50000	LS		PRECONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	
LS													LS	623	51000	LS		POST CONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	
			6										6	SPECIAL	69050350	6	EACH	MAILBOX REMOVED AND RESET	14
																		EROSION CONTROL	
					42								42	601	21060	42	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT	
					52								52	601	32204	52	CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC	
					208								208	601	45050	208	CY	BIORETENTION CELL	72
2													2	659	00100	2	EACH	SOIL ANALYSIS TEST	
639													639	659	00300	639	CY	TOPSOIL	
5,756					156								5,912	659	10000	5,912	SY	SEEDING AND MULCHING	
288													288	659	14000	288	SY	REPAIR SEEDING AND MULCHING	
288													288	659	15000	288	SY	INTER-SEEDING	
0.78													0.78	659	20000	0.78	TON	COMMERCIAL FERTILIZER	
1.19													1.19	659	31000	1.19	ACRE	LIME	
16													16	659	35000	16	MGAL	WATER	
13													13	659	40000	13	MSF	MOWING	
					156								156	671	14000	156	SY	EROSION CONTROL MAT	
													LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
													LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
													LS	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
													30,000	832	30000	30,000	EACH	EROSION CONTROL	

GENERAL SUMMARY

DESIGN AGENCY

OHM

DESIGNER
HAC

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.18 TOTAL 101

FAI-204-04.30

SHEET NUMBER													PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
				21	22	23	24		65	88	94		01/SAF		EXT	TOTAL			
																		DRAINAGE	
						1.9							1.9	602	20000	1.9	CY	CONCRETE MASONRY	
							163						163	605	05201	163	FT	4" UNCLASSIFIED PIPE UNDERDRAINS, AS PER PLAN	72
							406						406	605	13300	406	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
							2,661						2,661	605	14000	2,661	FT	6" BASE PIPE UNDERDRAINS	
							42						42	611	00406	42	FT	4" CONDUIT, TYPE F	
							163						163	611	00510	163	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
						186							186	611	04400	186	FT	12" CONDUIT, TYPE B	
						36							36	611	04900	36	FT	12" CONDUIT, TYPE D	
						11							11	611	07400	11	FT	18" CONDUIT, TYPE B	
						100							100	611	08900	100	FT	21" CONDUIT, TYPE B	
						260							260	611	09100	260	FT	21" CONDUIT, TYPE C	
						18							18	611	10400	18	FT	24" CONDUIT, TYPE B	
						1							1	611	98150	1	EACH	CATCH BASIN, NO. 3	
						7							7	611	98371	7	EACH	CATCH BASIN, NO. 6, AS PER PLAN	14
						2							2	611	98470	2	EACH	CATCH BASIN, NO. 2-2B	
							3						3	611	99710	3	EACH	PRECAST REINFORCED CONCRETE OUTLET	
																		PAVEMENT	
					321								321	252	01500	321	FT	FULL DEPTH PAVEMENT SAWING	
					627								627	301	56000	627	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
					1,185				311				1,496	304	20000	1,496	CY	AGGREGATE BASE	
					789				82				871	407	20000	871	GAL	NON-TRACKING TACK COAT	
					234								234	441	70100	234	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG70-22M	
					274								274	441	70300	274	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	
									49				49	441	70500	49	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)	
									66				66	441	70700	66	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449), (DRIVEWAYS)	
									120				120	452	10010	120	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
									28				28	452	12010	28	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
					1,500								1,500	452	13010	1,500	SY	9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
					1,269								1,269	609	26000	1,269	FT	CURB, TYPE 6	
					2,826								2,826	609	31000	2,826	FT	COMBINATION CURB AND GUTTER, TYPE 9	
					462								462	609	72000	462	SY	CONCRETE MEDIAN	
																		WATER WORK	
				222									222	638	02750	222	FT	12" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR-14	
				3									3	638	08100	3	EACH	12" GATE VALVE AND VALVE BOX	
				1									1	638	10480	1	EACH	FIRE HYDRANT REMOVED	
				187									187	638	98600	187	FT	WATER WORK, MISC.: EXISTING WATER MAIN REMOVED	73
											LIGHTING								
											24		24	625	00450	24	EACH	CONNECTION, FUSED PULL APART	
											24		24	625	00480	24	EACH	CONNECTION, UNFUSED PERMANENT	
											12		12	625	10490	12	EACH	LIGHT POLE, CONVENTIONAL, AT15B30	
											12		12	625	14100	12	EACH	LIGHT POLE FOUNDATION, 24" X 8' DEEP	
											915		915	625	23200	915	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
											1,620		1,620	625	23400	1,620	FT	NO. 10 AWG POLE AND BRACKET CABLE	
											1,041		1,041	625	24320	1,041	FT	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	
											285		285	625	25500	285	FT	CONDUIT, 3", 725.04	
											12		12	625	26253	12	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, 240V, TYPE III	88
											1,186		1,186	625	29002	1,186	FT	TRENCH, 24" DEEP	
											8		8	625	30706	8	EACH	PULL BOX, 725.08, 24"	
											13		13	625	32000	13	EACH	GROUND ROD	
											1		1	625	34001	1	EACH	POWER SERVICE, AS PER PLAN	88
											1,186		1,186	625	36010	1,186	FT	UNDERGROUND WARNING/MARKING TAPE	
										LS			LS	625	39000	LS		TEMPORARY LIGHTING	
											1		1	625	76000	1	EACH	ARC FLASH CALCULATIONS AND LABEL	

GENERAL SUMMARY

DESIGN AGENCY

OHM

DESIGNER HAC

REVIEWER SEO 08/15/25

PROJECT ID 113650

SHEET P.19 TOTAL 101

SHEET NUMBER													PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
	14	15	16	17		78	79	80	81		95		01/SAF		EXT	TOTAL			
																		TRAFFIC CONTROL	
								91	8				99	621	00100	99	EACH	RPM	
								9					9	621	54000	9	EACH	RAISED PAVEMENT MARKER REMOVED	
								7					7	626	00110	7	EACH	BARRIER REFLECTOR, TYPE 2	
						63.7	133.7						197.4	630	02101	197.4	FT	GROUND MOUNTED SUPPORT, NO. 2 POST, AS PER PLAN	76
						87.2	88						175.2	630	03101	175.2	FT	GROUND MOUNTED SUPPORT, NO. 3 POST, AS PER PLAN	76
						32.8	133.6						166.4	630	08100	166.4	FT	ONE WAY SUPPORT, NO. 4 POST	
						100.3	173.7						274	630	80100	274	SF	SIGN, FLAT SHEET	
						26							26	630	84900	26	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
						6							6	630	85100	6	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
						4							4	630	85201	4	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DELIVERY, AS PER PLAN	76
						24							24	630	86002	24	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
							2						2	630	97700	2	EACH	SIGNING, MISC.:SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY	76
								0.26	0.02				0.28	644	00104	0.28	MILE	EDGE LINE, 6"	
								0.3					0.3	644	00300	0.3	MILE	CENTER LINE	
								48					48	644	00630	48	FT	CROSSWALK LINE, 24"	
								210					210	644	00700	210	FT	TRANSVERSE/DIAGONAL LINE	
								1					1	644	01370	1	EACH	TWO WAY LEFT TURN ARROW	
									162				162	644	01520	162	FT	DOTTED LINE, 12"	
								71					71	644	20800	71	FT	YIELD LINE	
																		LANDSCAPING	
											304		304	204	50000	304	SY	GEOTEXTILE FABRIC	
											304		304	657	10001	304	SY	RIPRAP FOR TREE PROTECTION, AS PER PLAN	95
											5		5	661	19000	5	EACH	DECIDUOUS SHRUB, 12" HEIGHT	
											15		15	661	50040	15	EACH	EVERGREEN TREE, 2' HEIGHT	
																		MAINTENANCE OF TRAFFIC	
				200									200	251	01001	200	SY	PARTIAL DEPTH PAVEMENT REPAIR (441), AS PER PLAN	17
				200									200	253	01001	200	SY	PAVEMENT REPAIR, AS PER PLAN	17
			50										50	410	10000	50	CY	TRAFFIC COMPACTED SURFACE, TYPE A	
			50										50	410	11000	50	CY	TRAFFIC COMPACTED SURFACE, TYPE B	
				50									50	441	70000	50	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22, AS PER PLAN	17
		LS											LS	614	12420	LS		DETOUR SIGNING	
			24										24	614	18601	24	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	16
			21										21	616	10000	21	MGAL	WATER	
				40									40	617	10100	40	CY	COMPACTED AGGREGATE	
				11									11	642	00100	11	MILE	EDGE LINE, 4", TYPE 1	
				10.5									10.5	642	00300	10.5	MILE	CENTER LINE, TYPE 1	
																		INCIDENTALS	
													LS	614	11000	LS		MAINTAINING TRAFFIC	16
													6	619	16010	6	MNTH	FIELD OFFICE, TYPE B	
	LS												LS	623	10001	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN	14
													LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY

OHM

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SEO 08/15/25

PROJECT ID
113650

SHEET P.20 TOTAL 101

FAI-204-04.30

MODEL: Sheet 3 PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:16:52 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Fairfield\113650\401-Engineering_OHMAdvisors\Roadway\Sheets\113650_GG001.dgn

REF NO.	SHEET NO.	STATION TO STATION			202 HEADWALL REMOVED	202 PIPE REMOVED, 24" AND UNDER	202 GUARDRAIL REMOVED	202 ANCHOR ASSEMBLY REMOVED, TYPE E	202 MAILBOX REMOVED	202 CATCH BASIN REMOVED	202 VALVE BOX REMOVED	202 REMOVAL MISC.:LIGHT POLE	202 REMOVAL MISC.:STONE PILLARS WITH LIGHTS	202 REMOVAL MISC.:IN-GROUND LIGHTS	606 GUARDRAIL, TYPE MGS WITH LONG POSTS	606 ANCHOR ASSEMBLY, MGS TYPE E	606 ANCHOR ASSEMBLY, MGS TYPE T	608 4" CONCRETE WALK	608 CURB RAMP	608 DETECTABLE WARNING	SPECIAL MAILBOX REMOVED AND RESET	638 12" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR-14	638 12" GATE VALVE AND VALVE BOX	638 FIRE HYDRANT REMOVED	638 WATER WORK, MISC.:EXISTING WATER MAIN REMOVED
					EACH	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH	SF	SF	SF	EACH	FT	EACH	EACH	FT
SR204																									
R1	26	427+80.00	TO	429+39.34			157	1																	
R2	26	427+80.00	TO	429+46.91			171	1																	
GR1	26	427+80.00	TO	428+92.84											112.5										
GR2	26	427+80.00	TO	429+15.53											137.5										
GR3	26	428+92.84	TO	429+46.88												1									
GR4	27	429+15.53	TO	429+26.73													1								
R12	27	429+82.70									1														
R13	27	429+77.95	TO	430+29.73		52																			
R14	27	429+96.64	TO	430+46.09	2	51																			
R15	27	430+86.23									1														
R30	28	433+09.18	TO	433+47.86		39																			
R31	28	433+68.55							1																
TOLL GATE ROAD																									
R16	27	311+01.48										1													
R17	27	311+11.58																						1	
R18	27	311+11.72									1														
R19	27	311+48.80									1														
MB1	27	310+83.01																			1				
W1		309+92.72	TO	310+21.31														203							
R50	29	309+08.07	TO	309+36.43		30																			
R51	29	309+39.72								1															
R52	29	309+81.55										1													
MB2	29	309+32.53																			1				
CR1	29	309+82.75	TO	309+92.72															100						
W2	29	309+84.07	TO	309+93.91														134		40					
CR3	29	309+84.52	TO	309+94.64															100						
R60	30	313+70.08								1															
R61	30	315+95.41											1												
R62	30	315+99.67												1											
R63	30	316+15.79												1											
R64	30	316+19.60											1												
MB3	30	313+78.76																			1				
MB4	30	314+22.79																			1				
MB5	30	314+59.44																			1				
MB6	30	316+22.82																			1				
TOLL GATE ROAD WATER WORKS																									
WL1	75	311+07.98	TO	311+14.94																		75	1		
WL2	75	311+04	TO	311+45																		60	1		90
WL3	75	312+15	TO	313+21																		87	1		97
TOTALS CARRIED TO GENERAL SUMMARY					2	172	328	2	1	2	4	2	2	2	250	1	1	337	200	40	6	222	3	1	187

ROADWAY AND WATER MAIN SUBSUMMARY

DESIGN AGENCY

OHM

DESIGNER
HAC

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.21 TOTAL 101

FAI-204-04.30

PAVEMENT CALCULATIONS

STATION RANGE			ROAD	SIDE	CADD GENERATED AREA (441, 407)	CADD GENERATED AREA (301)	CADD GENERATED AREA (6" 304)	CADD GENERATED AREA (206)	CADD GENERATED AREA (609, 13.5" 304 ISLANDS)	CADD GENERATED AREA (452)	202 PAVEMENT REMOVED	206 CURING COAT	206 CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP	206 CEMENT	252 FULL DEPTH PAVEMENT SAWING	301 ASPHALT CONCRETE BASE, PG64-22, (449)	304 AGGREGATE BASE	407 NON-TRACKING TACK COAT	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG70-22M	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	452 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	609 CURB, TYPE 6	609 COMBINATION CURB AND GUTTER, TYPE 9	609 CONCRETE MEDIAN
					SF	SF	SF	SF	SF	SF	SY	SY	SY	TON	FT	CY	CY	GAL	CY	CY	SY	FT	FT	SY
SR204																									
427+80.00	TO	428+24.73	SR 204	WEST LEG	1589	1627	1673	1727				192	192	5	36	20	31	25	7	9					
428+24.73	TO	429+40.96	SR 204	WEST LEG	3186	3186	3709	3940			678	438	438	11		39	69	50	15	17					
429+40.96	TO	430+07.13	SR 204	WEST LEG	2322	2322	2642	3388	525			376	376	10		29	71	36	11	13		156		58	
431+39.07	TO	432+85.43	SR 204	EAST LEG	4942	4942	5628	7410	1317			823	823	21		61	159	77	23	27		319		146	
432+85.43	TO	434+21.06	SR 204	EAST LEG	4054	4069	4617	4874			1058	542	542	14		50	86	63	19	22					
434+21.06	TO	434+54.13	SR 204	EAST LEG	922	950	983	1023				114	114	3	23	12	18	14	4	5					
TOLL GATE RD																									
307+00.00	TO	307+42.37	TOLL GATE RD	SOUTH LEG	1212	1251	1288	1338				149	149	4	22	15	24	19	6	7					
307+42.37	TO	309+43.76	TOLL GATE RD	SOUTH LEG	6108	6108	475	7422				825	825	21		75	9	95	28	33					
309+43.76	TO	310+36.91	TOLL GATE RD	SOUTH LEG	2858	2858	3277	4568	863		2472	508	508	13		35	97	44	13	15		226		96	
310+36.91	TO	310+84.40	TOLL GATE RD	SOUTH LEG	2114	2114	2327	2421				269	269	7		26	43	33	10	11					
310+84.40	TO	311+49.54	TOLL GATE RD	SOUTH LEG	2463	2463	2793	3674	656			408	408	11		30	79	38	11	13		155		73	
312+83.33	TO	313+82.11	TOLL GATE RD	NORTH LEG	3533	3533	4011	5136	800			571	571	15		44	108	55	16	19		225		89	
313+82.11	TO	315+91.66	TOLL GATE RD	NORTH LEG	6240	6240	7189	7608			1050	845	845	22		77	133	97	29	34					
315+91.66	TO	316+50.96	TOLL GATE RD	NORTH LEG	1715	1775	1823	1894				210	210	5	22	22	34	27	8	9					
ROUNDABOUT																									
100+00.00	TO	400+08.20			7448	7448	12086	12085		3605	457	1343	1343	35		92	224	116	34	40	401	188	295		
SR 204 & TOLL GATE ROAD																									
428+25.00	TO	307+42.70		SW QUARTER						2511											279		627		
428+25.00	TO	315+90.89		NW QUARTER						2053											228		544		
307+42.70	TO	433+85.15		SE QUARTER						2839					218						315		705		
315+91.65	TO	434+21.11		NE QUARTER						2496											277		655		
TOTALS CARRIED TO GENERAL SUMMARY											5715	7613	7613	197	321	627	1185	789	234	274	1500	1269	2826	462	

DESIGN AGENCY

OHM

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REVIEWER
HAC 08/15/25

PROJECT ID
113650

SHEET P.22 TOTAL 101

FAI-204-04.30

REF NO.	SHEET NO.	STATION TO STATION				602	611	611	611	611	611	611		611	611	611
						CONCRETE MASONRY	12" CONDUIT, TYPE B	12" CONDUIT, TYPE D	18" CONDUIT, TYPE B	21" CONDUIT, TYPE B	21" CONDUIT, TYPE C	24" CONDUIT, TYPE B		CATCH BASIN, NO. 3	CATCH BASIN, NO. 6, AS PER PLAN	CATCH BASIN, NO. 2-2B
						CY	FT	FT	FT	FT	FT	FT		EACH	EACH	EACH
D-1	70	309+39.31														1
P-1	70	309+38.86	TO	309+39.31					11							
D-2	70	309+38.86													1	
P-2	70	309+37.94	TO	309+38.86						40						
D-3	70	309+37.94													1	
P-3A	70	309+37.94	TO	309+70.00							85					
D-4A	70	309+70.00														1
P-3B	70	309+70.00	TO	309+55.00							175					
D-4B	70	309+55.00				0.4										
P-11	70	309+04.48	TO	309+38.42				36								
D-4	70	309+47.69				0.3										
D-5	70	431+84.85													1	
P-4	70	431+82.87	TO	431+84.85			44									
D-6	70	431+82.87													1	
P-5	70	431+82.87	TO	313+64.40			15									
D-7	70	313+64.40				0.2										
D-8	70	313+62.05				0.4										
P-6	70	313+56.04	TO	313+62.05						19						
D-9	70	313+56.04													1	
P-7	70	313+56.04	TO	313+56.04						41						
D-10	70	313+56.04													1	
P-8	70	313+52.99	TO	313+56.04								18				
D-11	70	313+52.99				0.4										
D-12	70	311+49.54												1		
P-9	70	311+49.54	TO	429+96.64			109									
D-13	70	429+96.17													1	
P-10	70	429+89.28	TO	429+96.64			18									
D-14	70	429+89.28				0.2										
TOTALS CARRIED TO GENERAL SUMMARY						1.9	186	36	11	100	260	18		1	7	2

DRAINAGE SUBSUMMARY

DESIGN AGENCY
OHM

DESIGNER
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REVIEWER
BLS 08/15/25

PROJECT ID
113650

SHEET P.23 TOTAL 101

FAI-204-04.30

DRAINAGE AND EROSION CONTROL SUBSUMMARY

REF NO.	SHEET NO.	STATION TO STATION					203 EXCAVATION, AS PER PLAN, BIORETENTION CELL (CY)	601 TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT (SY)	601 ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC (CY)	601 BIORETENTION CELL (CY)	605 4" UNCLASSIFIED PIPE UNDERDRAINS, AS PER PLAN (FT)	605 6" UNCLASSIFIED PIPE UNDERDRAINS (FT)	605 6" BASE PIPE UNDERDRAINS (FT)	611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS (FT)	611 PRECAST REINFORCED CONCRETE OUTLET (EACH)	611 4" CONDUIT, TYPE F (FT)	659 SEEDING AND MULCHING (SY)	671 EROSION CONTROL MAT (SY)
UD1	26	427+80.00	SR204	TO	428+22.00	SR204							43		5	1		
UD2	26	427+80.00	SR204	TO	428+22.00	SR204							41		5	1		
UD3	26, 27	428+22.00	SR204	TO	429+92.16	SR204								168				
UD4	26, 27	428+22.00	SR204	TO	430+08.64	SR204								194				
UD5	26, 27	428+92.13	SR204	TO	429+41.99	SR204										1	42	
EC1	26	428+19.23	SR204	TO	428+24.57	SR204			10.4									
EC2	26	428+19.00	SR204	TO	428+24.65	SR204			8.2									
EC3	26,27,30	428+76.35	SR204	TO	429+41.99	SR204			28.4									
UD14	27, 30	429+41.99	SR204	TO	313+71.26	TR225					163							
WQ1	27,30,71	429+42.05	SR204	TO	313+71.10	TR225	208	42		208							156	156
EC4	27, 70	429+84.93	SR204	TO	429+91.14	SR204			1.1									
UD15	27	429+96.64	SR204	TO	312+78.31	TR225							44	10				
UD16	27, 30	312+78.31	TR225	TO	313+56.04	TR225							68	10				
UD17	27	430+63.71	SR204	TO	430+73.13	SR204							138					
UD18	27	430+63.71	SR204	TO	430+73.13	SR204							143					
UD19	27	430+53.35	SR204	TO	430+63.71	SR204								23				
UD20	27	312+68.32	TR225	TO	431+82.97	SR204							77	10				
UD21	27, 28	431+41.37	SR204	TO	431+84.85	SR204							36	10				
UD22	27, 28	431+82.97	SR204	TO	433+50.00	SR204							157	10				
UD23	27, 28	431+84.85	SR204	TO	433+65.00	SR204							171	10				
UD32	28	433+50.00	SR204	TO	434+54.13	SR204						104						
UD33	28	433+65.00	SR204	TO	434+54.13	SR204						91						
EC5	29, 70	309+46.84	TR225	TO	309+50.14	TR225			1.1									
UD40	29	307+00.00	TR225	TO	607+62.70	TR225						63						
UD41	29	307+00.00	TR225	TO	307+62.70	TR225						64						
UD42	29	307+62.70	TR225	TO	309+37.97	TR225							169	10				
UD43	29	307+62.70	TR225	TO	309+38.86	TR225							163	10				
UD44	27, 29	309+37.97	TR225	TO	430+08.64	SR204							224	10				
UD45	27, 29	309+38.86	TR225	TO	431+41.37	SR204							252	10				
UD46	27, 30	312+68.32	TR225	TO	313+62.05	TR225							92	10				
EC6	30, 70	313+50.49	TR225	TO	313+55.94	TR225			2.8									
UD47	30	313+56.04	TR225	TO	316+50.96	TR225							290	10				
UD48	30	313+62.05	TR225	TO	316+50.96	TR225							275	10				
TOTALS CARRIED TO GENERAL SUMMARY							208	42	52	208	163	406	2661	163	3	42	156	156

DESIGN AGENCY
OHM

DESIGNER
HAC

REVIEWER
BLS 08/15/25

PROJECT ID
113650

SHEET P.24 TOTAL 101

FAI-204-04.30

PROJECT DESCRIPTION

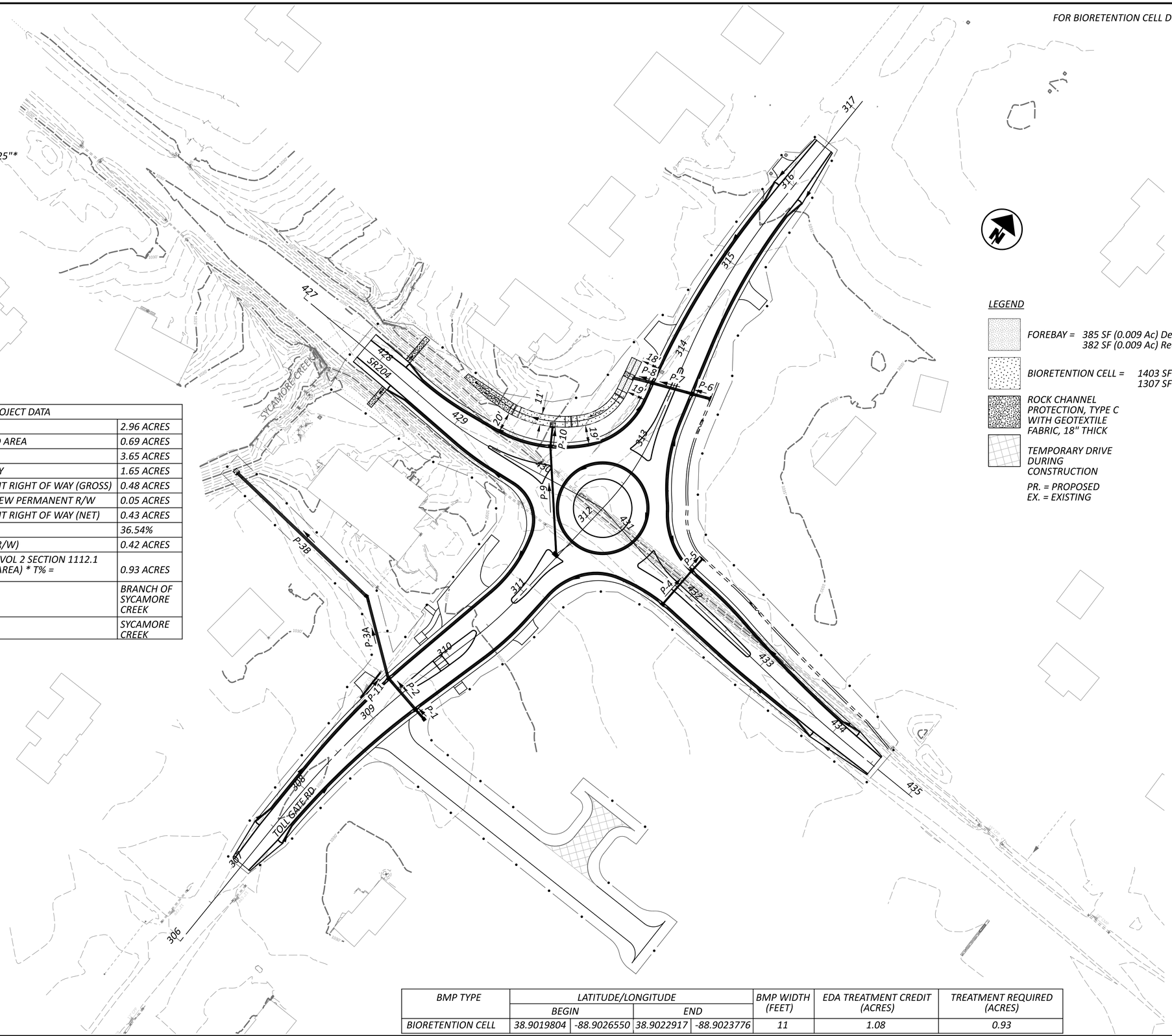
CONSTRUCTION OF A ROUNDABOUT AT THE INTERSECTION OF SR 204 AND TOLL GATE ROAD (TR 225) IN VIOLET TOWNSHIP, FAIRFIELD COUNTY, OHIO. PROJECT WORK INCLUDES NEW ASPHALT PAVEMENT, CURB AND GUTTER, STORM SEWER, STREET LIGHTING, AND TRAFFIC CONTROL.

PROJECT LOCATION

USGS MAP: PATASKALA QUADRANGLE
PATASKALA, OHIO
LATITUDE: N39°55'40"* LONGITUDE: W82°42'25"*
*TO APPROXIMATE CENTER OF PROJECT

FOR BIORETENTION CELL DETAILS, SEE SHEET P.71

HORIZONTAL SCALE IN FEET
0 25 50 100



PROJECT DATA	
PROJECT EARTH DISTURBED AREA (EDA)	2.96 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	0.69 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA	3.65 ACRES
PROJECT EDA INSIDE EXISTING RIGHT OF WAY	1.65 ACRES
NEW IMPERVIOUS AREA IN NEW PERMANENT RIGHT OF WAY (GROSS)	0.48 ACRES
EXISTING IMPERVIOUS AREA REMOVED IN NEW PERMANENT R/W	0.05 ACRES
NEW IMPERVIOUS AREA IN NEW PERMANENT RIGHT OF WAY (NET)	0.43 ACRES
T% (TREATMENT PERCENT)	36.54%
SHEET FLOW AREA (SHEET FLOWS OUTISDE R/W)	0.42 ACRES
FINAL TREATMENT REQUIREMENT, PER L&D VOL 2 SECTION 1112.1 (TREATMENT REQUIREMENT - SHEET FLOW AREA) * T% =	0.93 ACRES
IMMEDIATE RECEIVING WATERS	BRANCH OF SYCAMORE CREEK
SUBSEQUENT RECEIVING WATERS	SYCAMORE CREEK

LEGEND

FOREBAY = 385 SF (0.009 Ac) Designed
382 SF (0.009 Ac) Required

BIORETENTION CELL = 1403 SF (0.032 Ac) Designed
1307 SF (0.03 Ac) Required

ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC, 18" THICK

TEMPORARY DRIVE DURING CONSTRUCTION

PR. = PROPOSED
EX. = EXISTING

BMP TYPE	LATITUDE/LONGITUDE				BMP WIDTH (FEET)	EDA TREATMENT CREDIT (ACRES)	TREATMENT REQUIRED (ACRES)
	BEGIN		END				
BIORETENTION CELL	38.9019804	-88.9026550	38.9022917	-88.9023776	11	1.08	0.93

PROJECT SITE PLAN

DESIGN AGENCY
OHM

DESIGNER
HAC

REVIEWER
BLS 08/15/25

PROJECT ID
113650

SHEET P.25 TOTAL 101

FAI-204-04.30

MODEL: Project Site Plan [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:17:56 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
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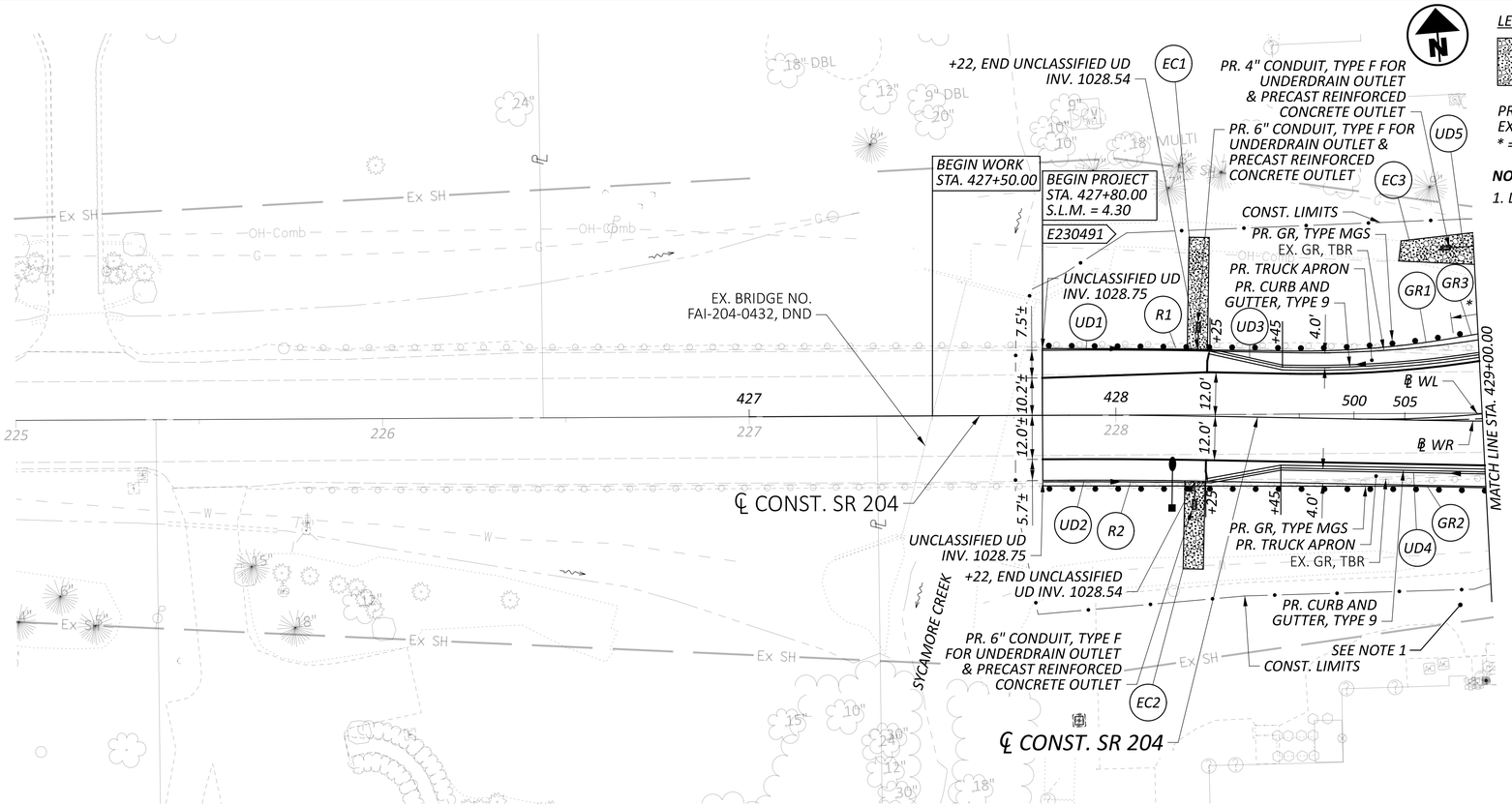


LEGEND

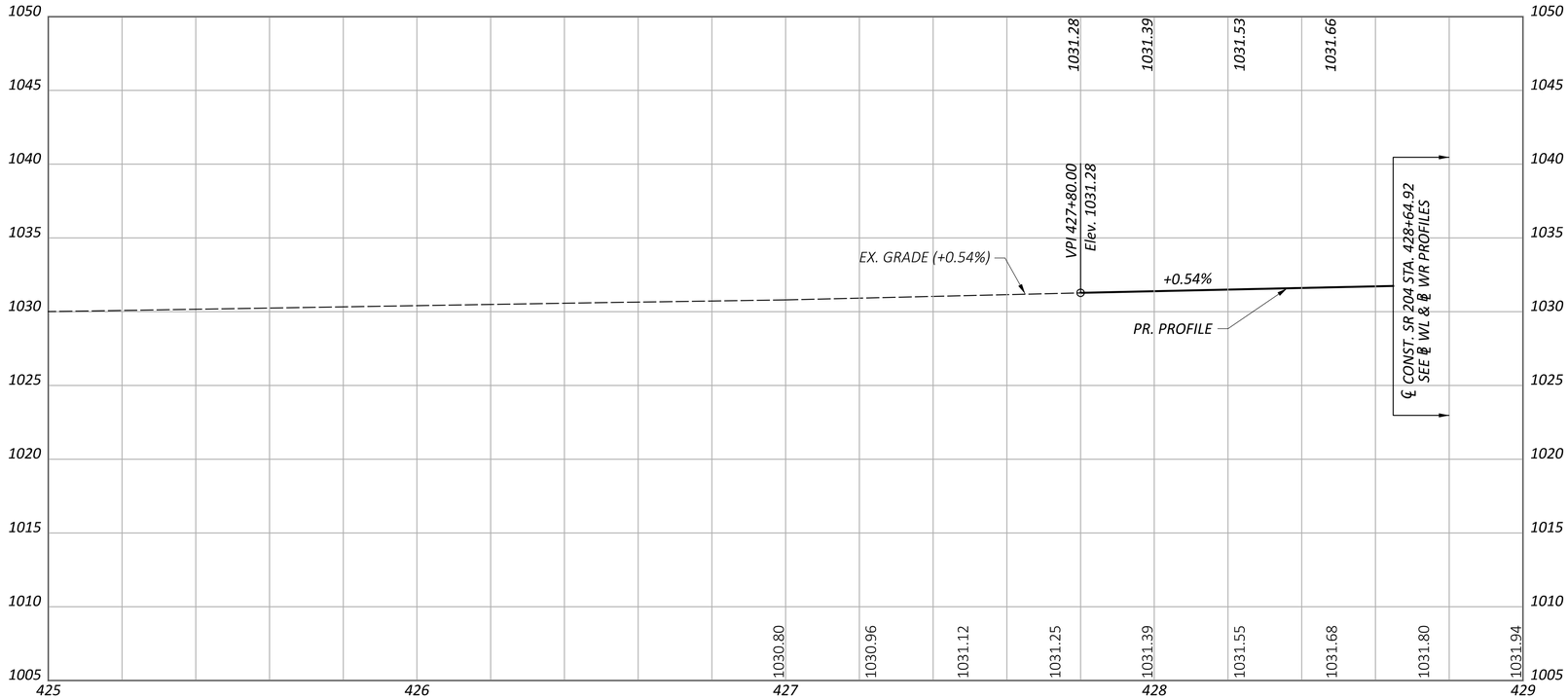
ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC, 18" THICK

PR. = PROPOSED
EX. = EXISTING
** = TYPE E ANCHOR ASSEMBLY*
BEGIN ℄ CONST. SR 204 STA. 428+92.84, 22.28' LT

NOTE:

1. DO NOT DISTURB EXISTING CHURCH ACCESS DRIVE

HORIZONTAL SCALE IN FEET
0 10 20 40



PLAN AND PROFILE - SR 204
BEGIN TO STA. 429+00.00

DESIGN AGENCY
OHM

DESIGNER
ZR

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.26 TOTAL 101

FAI-204-04.30

MODEL: CLP_208 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:18:25 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
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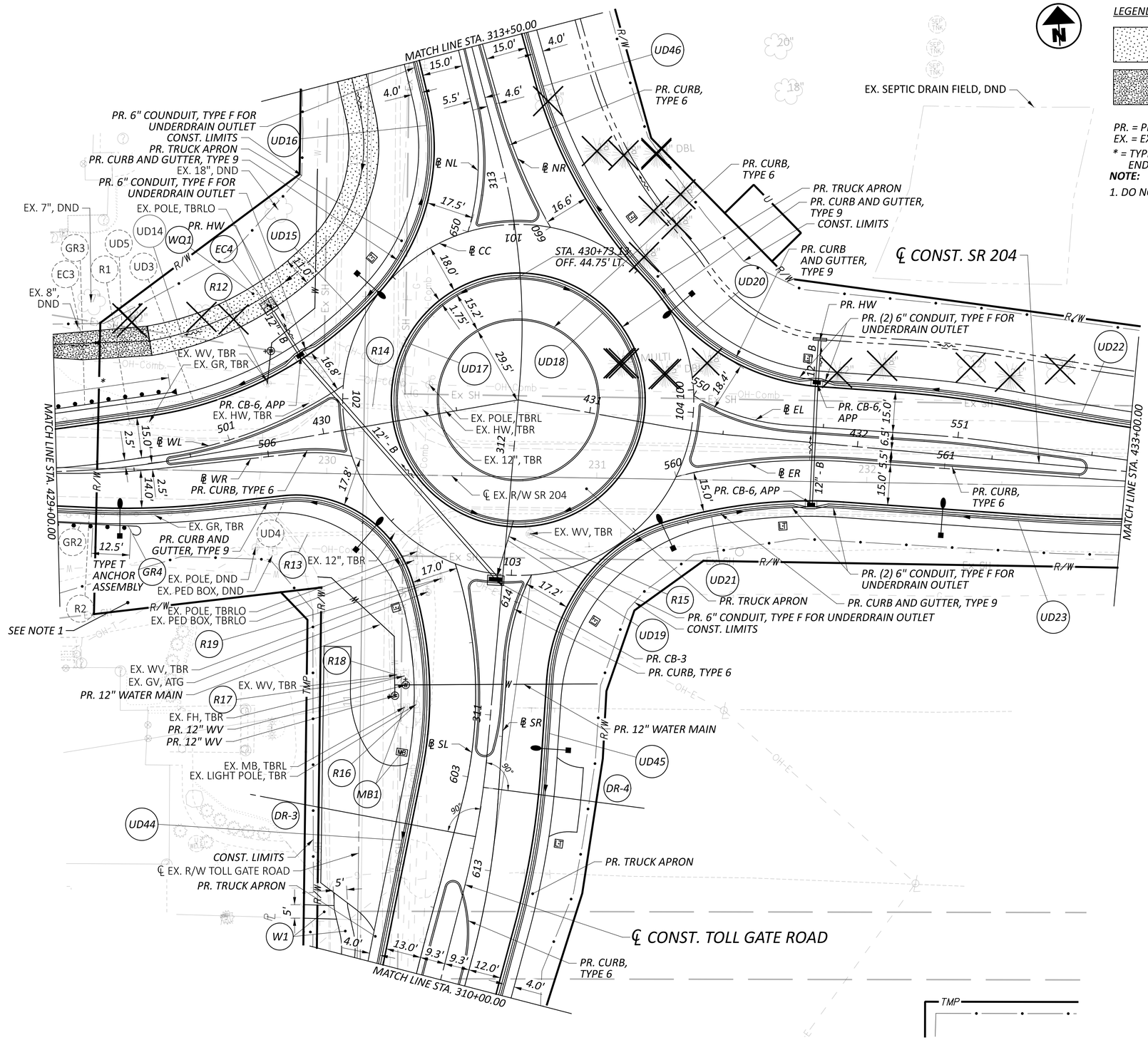

LEGEND

- BIORETENTION CELL
- ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC, 18" THICK

PR. = PROPOSED
EX. = EXISTING
* = TYPE E ANCHOR ASSEMBLY END ℄ CONST. SR 204 STA. 429+46.88, 24.84' LT

NOTE:

1. DO NOT DISTURB EXISTING CHURCH ACCESS DRIVE

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN VIEW - SR 204 AND TOLL GATE ROAD STA. 429+00.00 TO STA. 433+00.00

DESIGN AGENCY
OHM

DESIGNER: ZR
REVIEWER: SEO 08/15/25
PROJECT ID: 113650
SHEET: P.27 TOTAL: 101

FAI-204-04.30

MODEL: CLP_211 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:56:32 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
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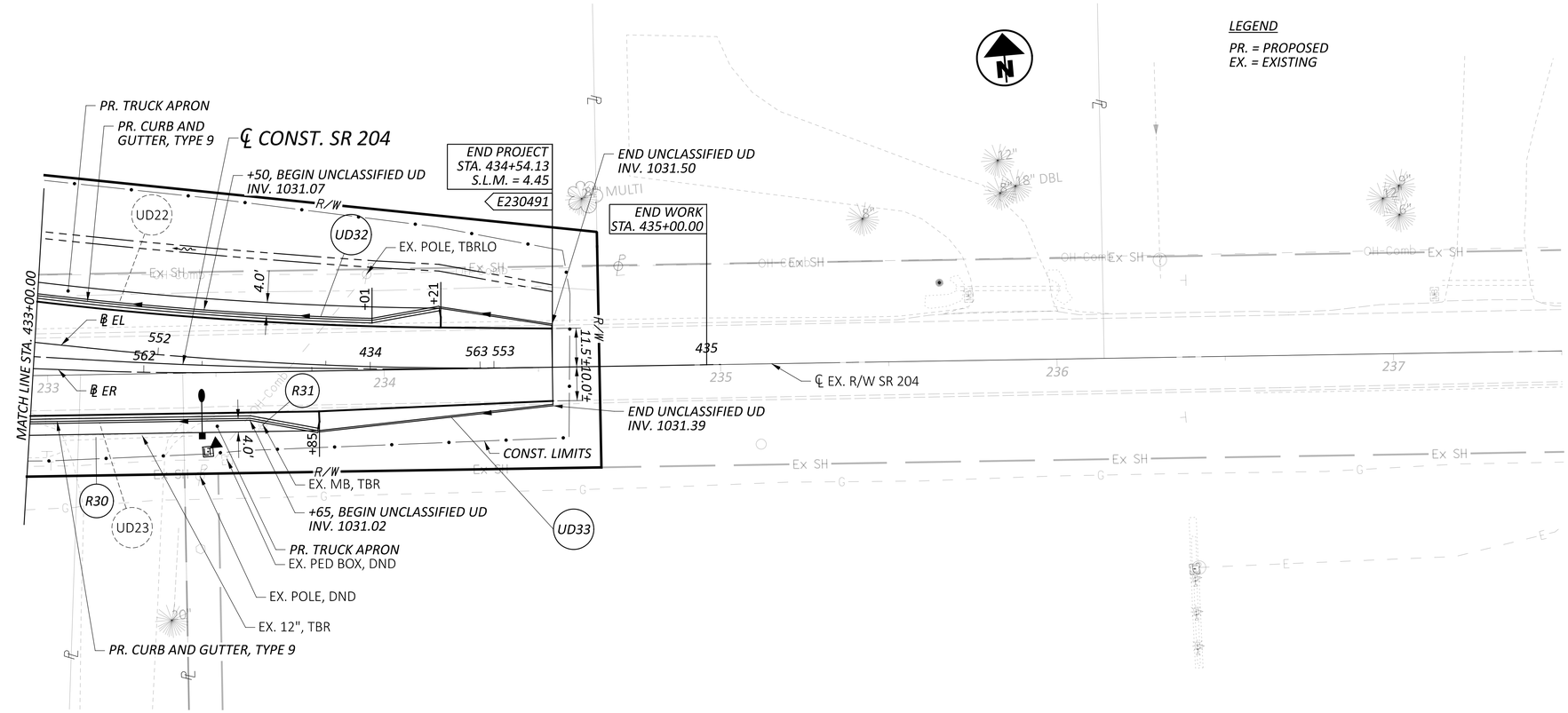
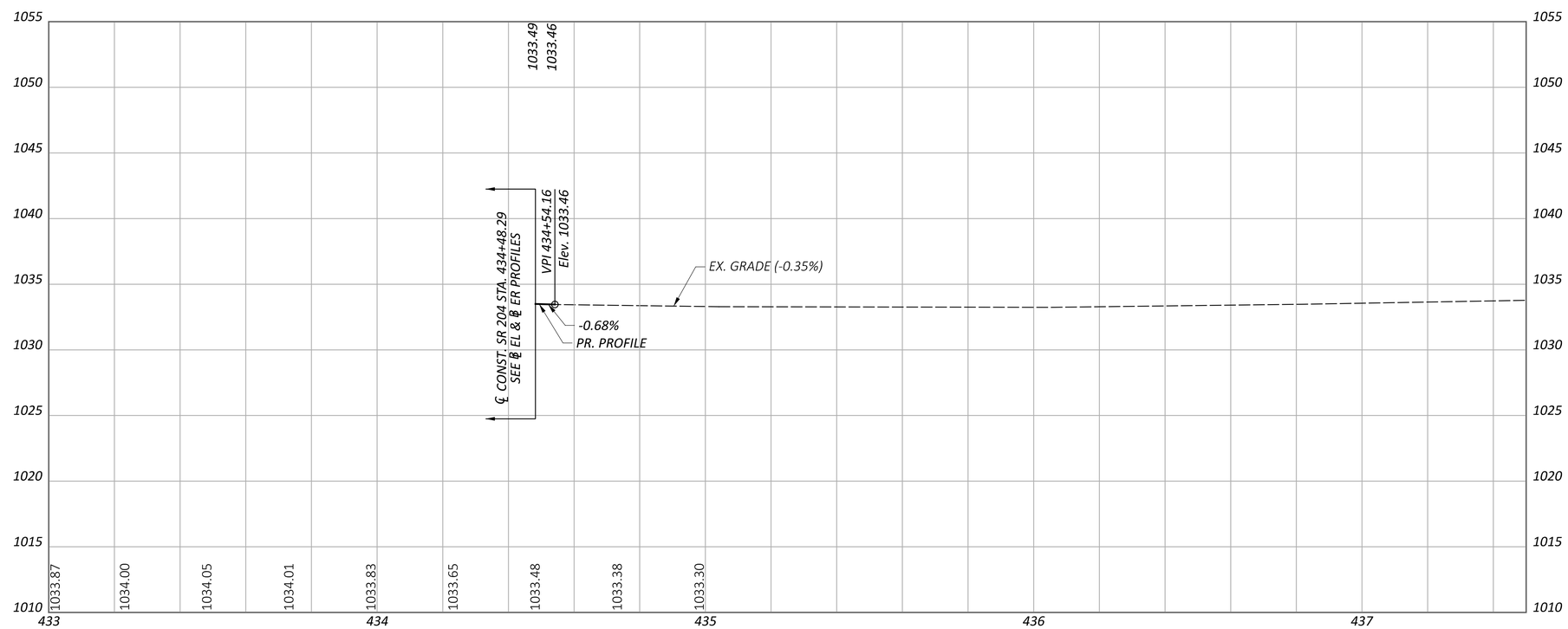




HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - SR 204
STA. 433+00.00 TO END

DESIGN AGENCY
OHM

DESIGNER
ZR

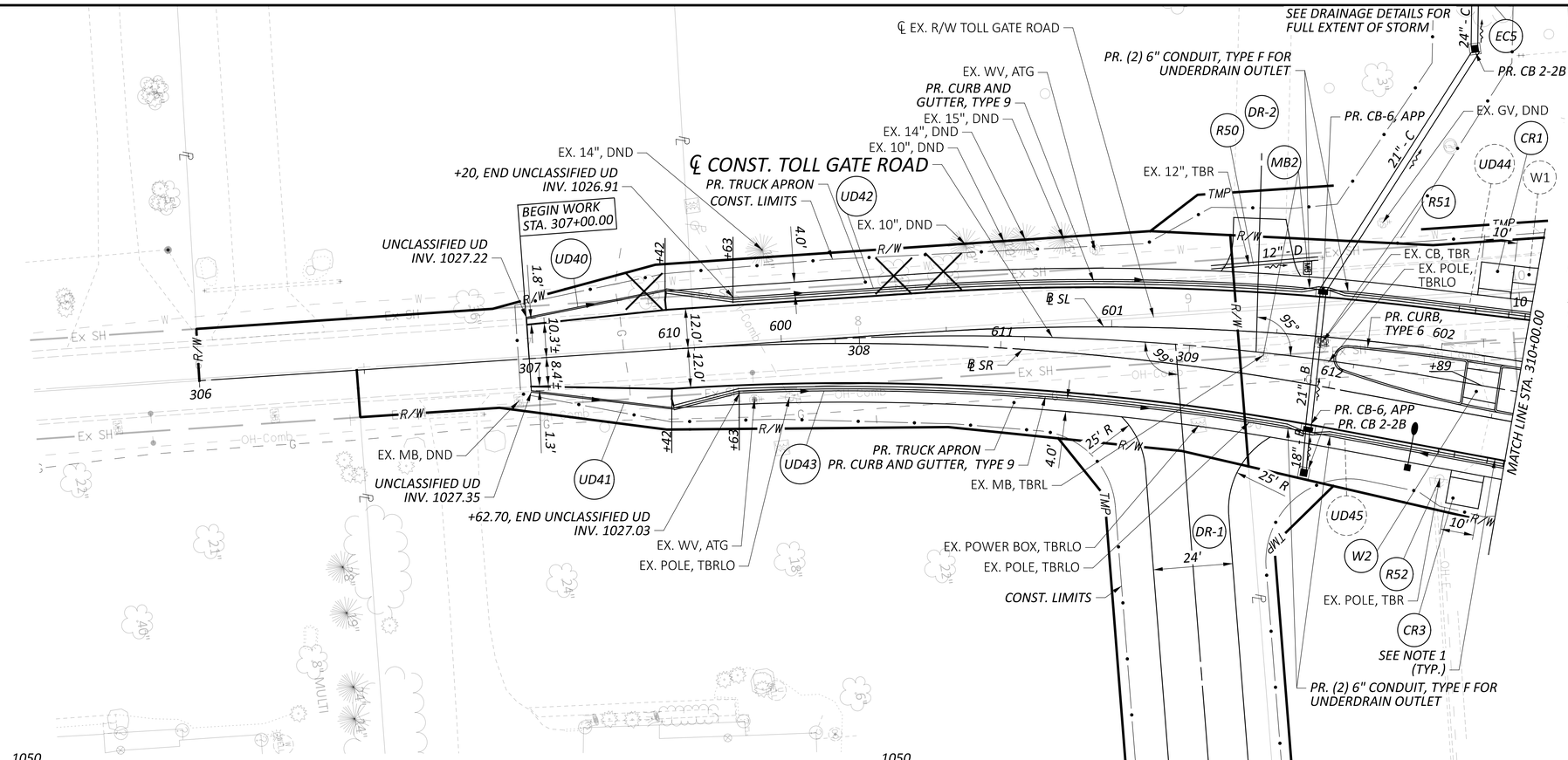
REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.28 TOTAL 101

FAI-204-04.30

MODEL: CLP_210 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:18:34 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Fairfield\113650\401-Engineering_OHMAdvisors\Roadway\Sheets\113650_GP001.dgn



LEGEND

ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC, 18" THICK

TEMPORARY DRIVE DURING CONSTRUCTION

PR. = PROPOSED
EX. = EXISTING

NOTE

1. TRANSITION TYPE 9 CURB AND GUTTER FROM 3" HEIGHT TO FLUSH OVER 5' FOR CURB RAMP.

HORIZONTAL SCALE IN FEET 0 10 20 40

PLAN AND PROFILE - TOLL GATE ROAD BEGIN TO STA. 310+00.00

DESIGN AGENCY: OHM

DESIGNER: ZR

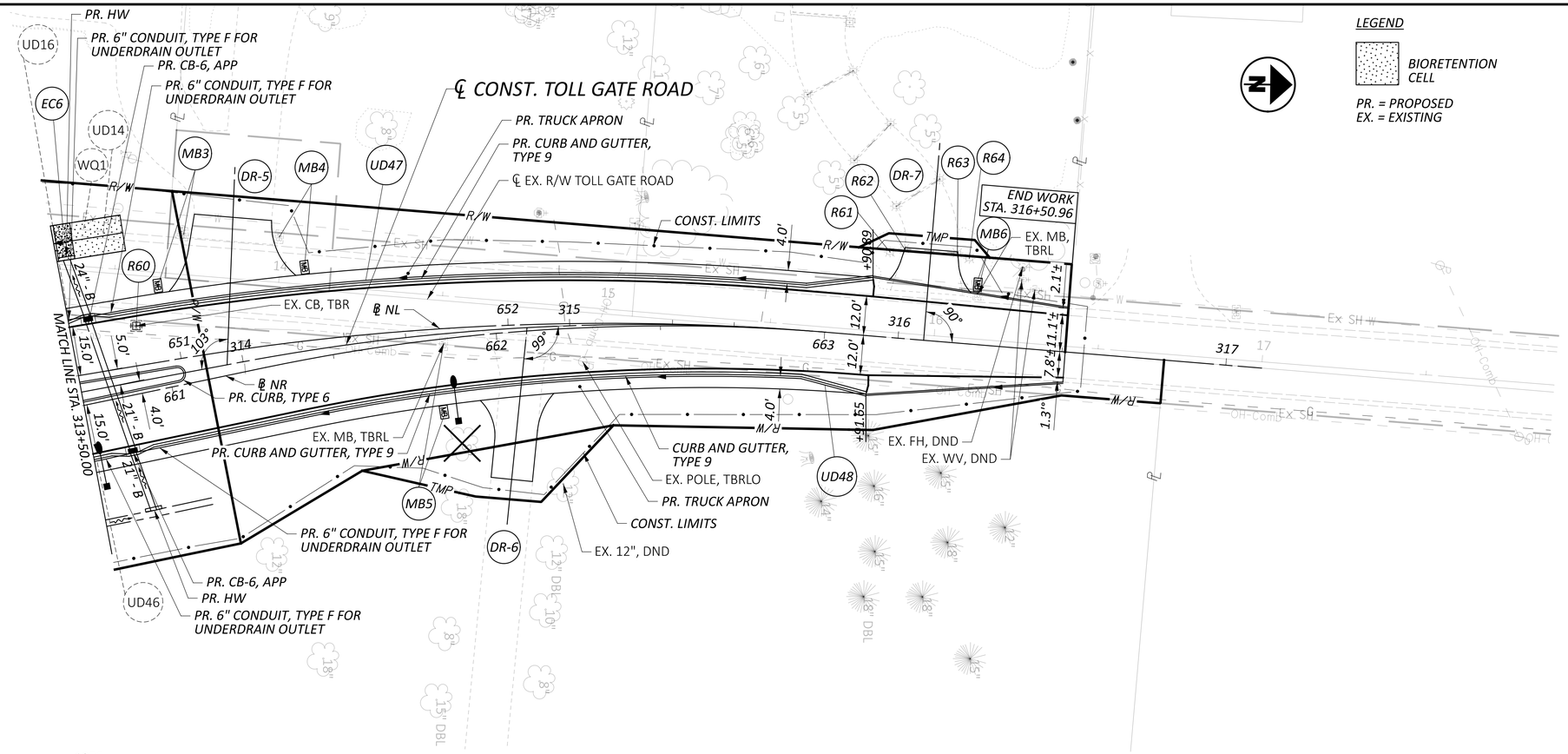
REVIEWER: SEO 08/15/25

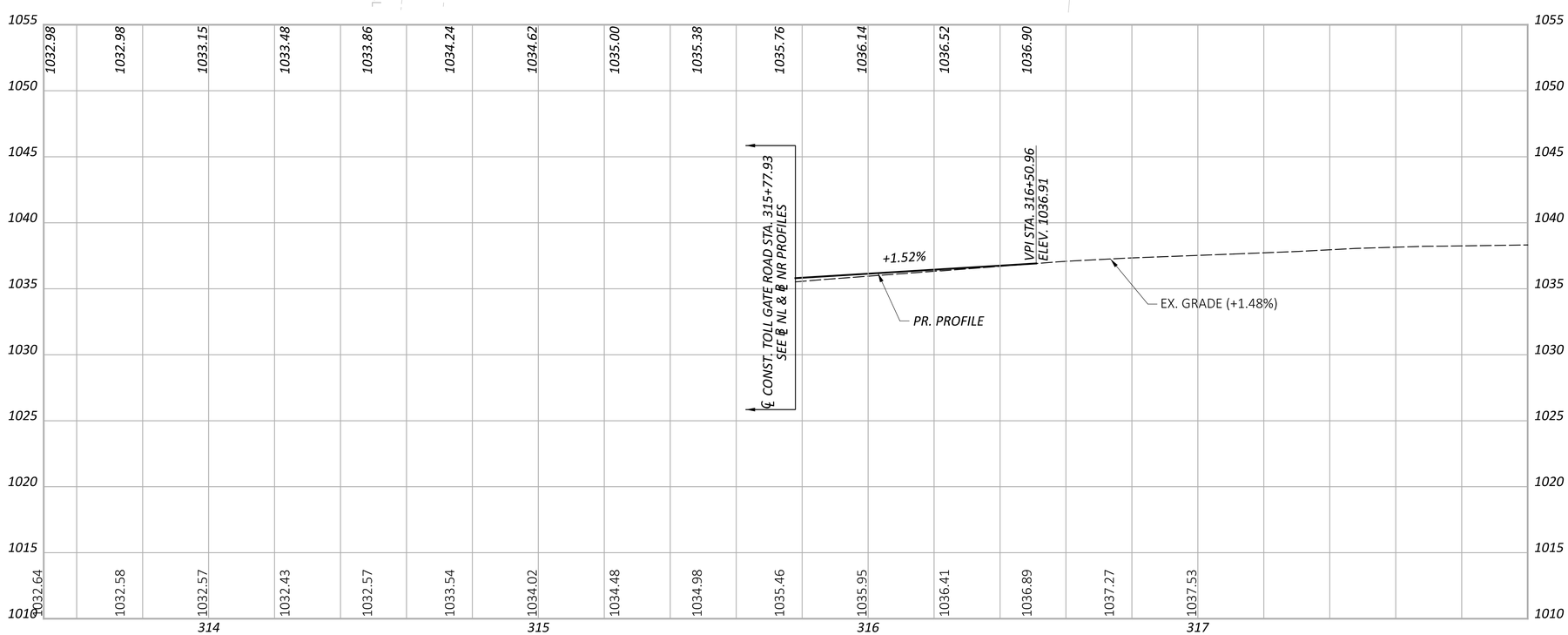
PROJECT ID: 113650

SHEET: P.29 TOTAL: 101

FAI-204-04.30

MODEL: CLP_TollGate - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:19:00 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Fairfield\113650\401-Engineering_OHMAdvisors\Roadway\Sheets\113650_GP002.dgn





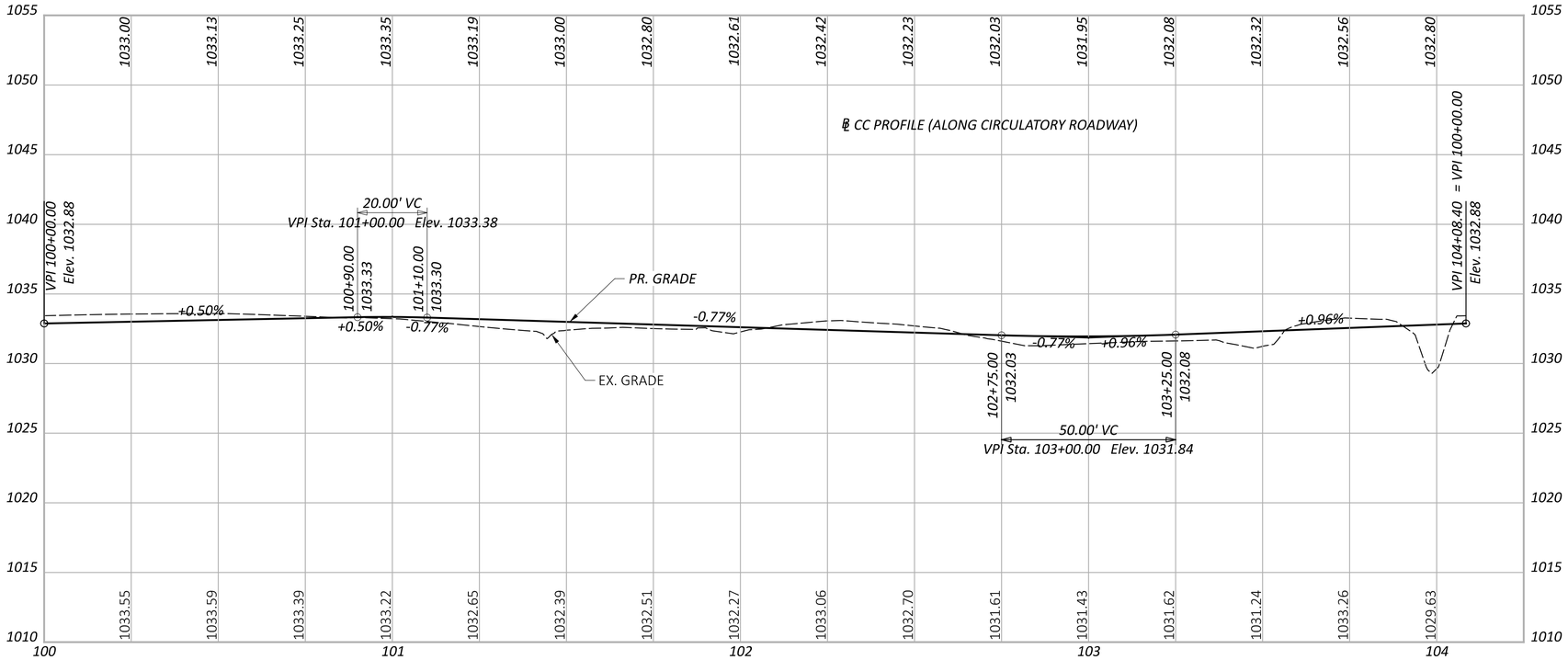
PLAN AND PROFILE - TOLL GATE ROAD
STA. 313+50.00 TO END

DESIGN AGENCY
OHM

DESIGNER	ZR
REVIEWER	SEO 08/15/25
PROJECT ID	113650
SHEET	P.30
TOTAL	101

FAI-204-04.30

MODEL: CLP_TollGate-1 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:19:04 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Fairfield\113650\401-Engineering_OHMAdvisors\Roadway\Sheets\113650_GP002.dgn



ROUNDABOUT B/L PROFILES
B/L CC PROFILE (ALONG CIRCULATORY ROADWAY)

DESIGN AGENCY
OHM

DESIGNER
BLC

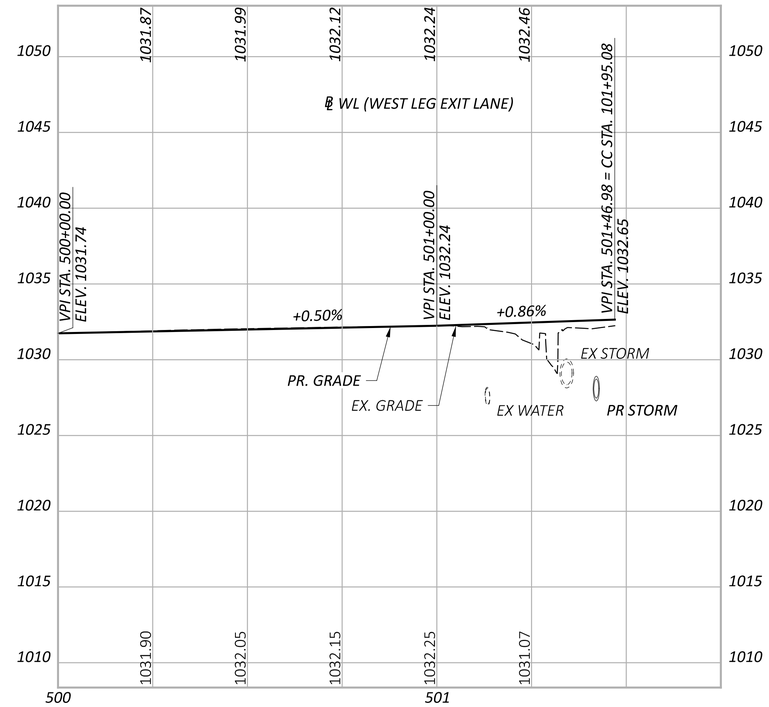
REVIEWER
SEO 08/15/25

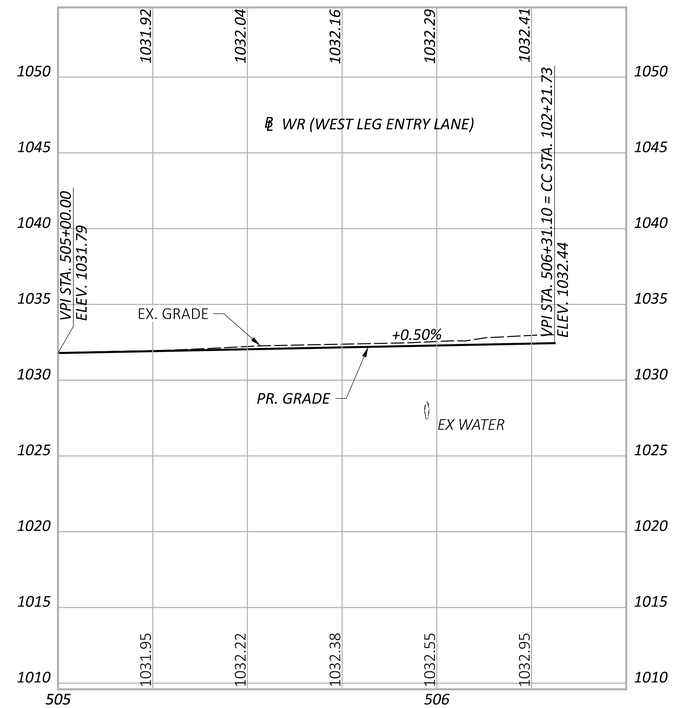
PROJECT ID
113650

SHEET P.31 TOTAL 101

FAI-204-04.30

MODEL: PGL_CC - Profile 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:19:30 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Fairfield\113650\401-Engineering_OHMAdvisors\Roadway\Sheets\113650_GF001.dgn





ROUNDABOUT B/L PROFILES
B/L WL AND B/L WR (WEST LEG)

DESIGN AGENCY

OHM

DESIGNER
BLC

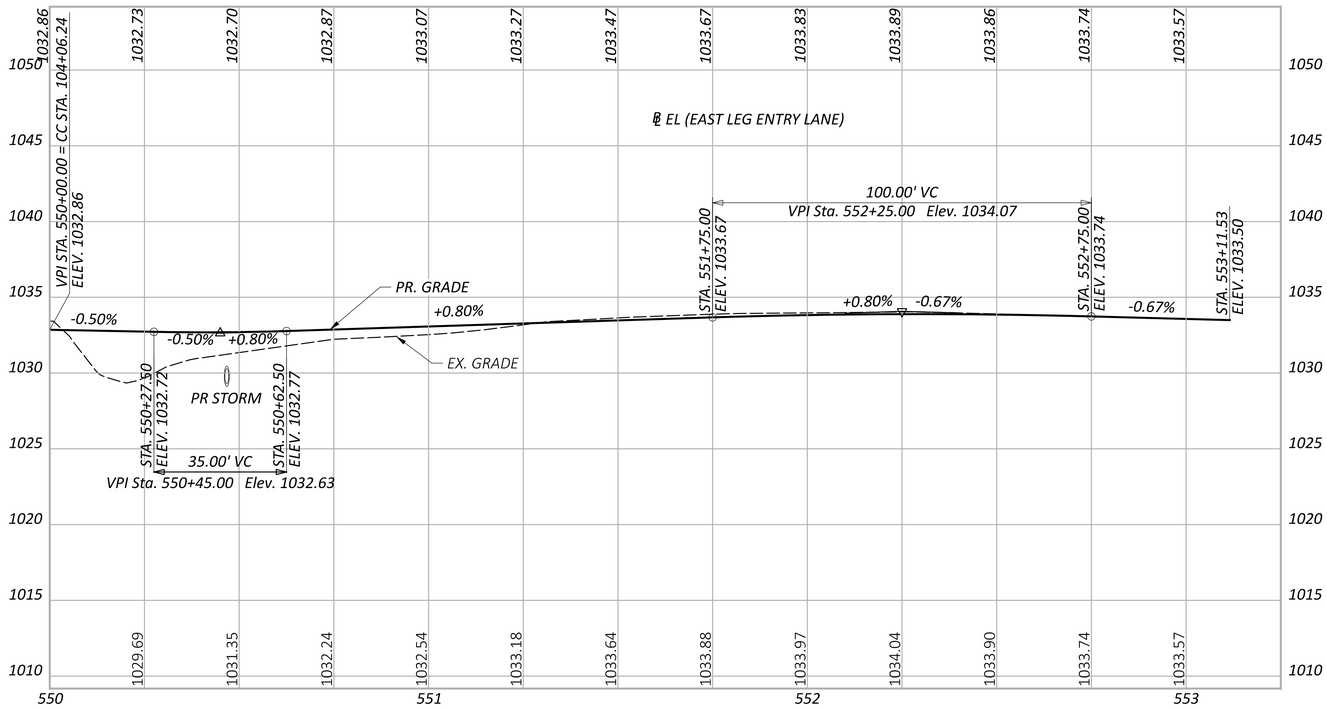
REVIEWER
SEO 08/15/25

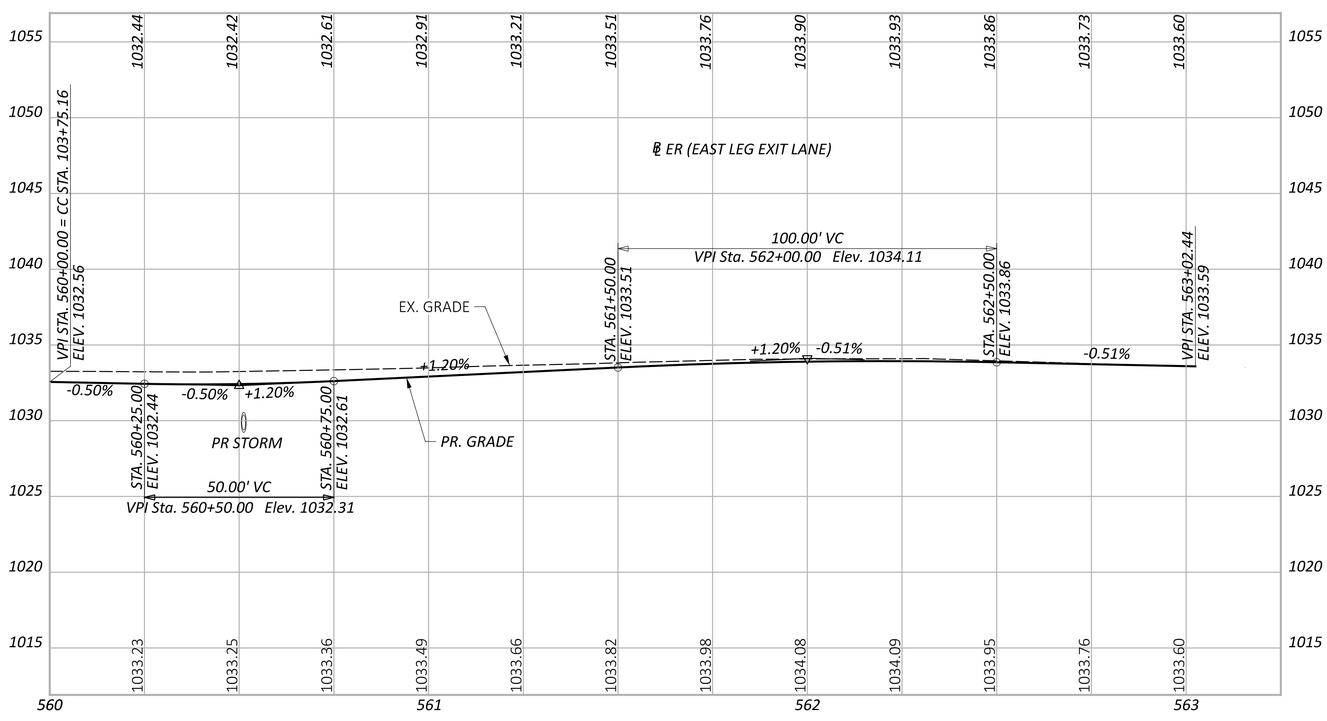
PROJECT ID
113650

SHEET P.32 TOTAL 101

FAI-204-04.30

MODEL: PGL_WL - Profile 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:42:25 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Fairfield\113650\401-Engineering_OHMAdvisors\Roadway\Sheets\113650_GF001.dgn





ROUNDABOUT B/L PROFILES
B/L EL AND B/L ER (EAST LEG)

DESIGN AGENCY

OHM

DESIGNER
BLC

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.33 TOTAL 101

FAI-204-04.30

MODEL: PGL_EL - Profile 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:19:35 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
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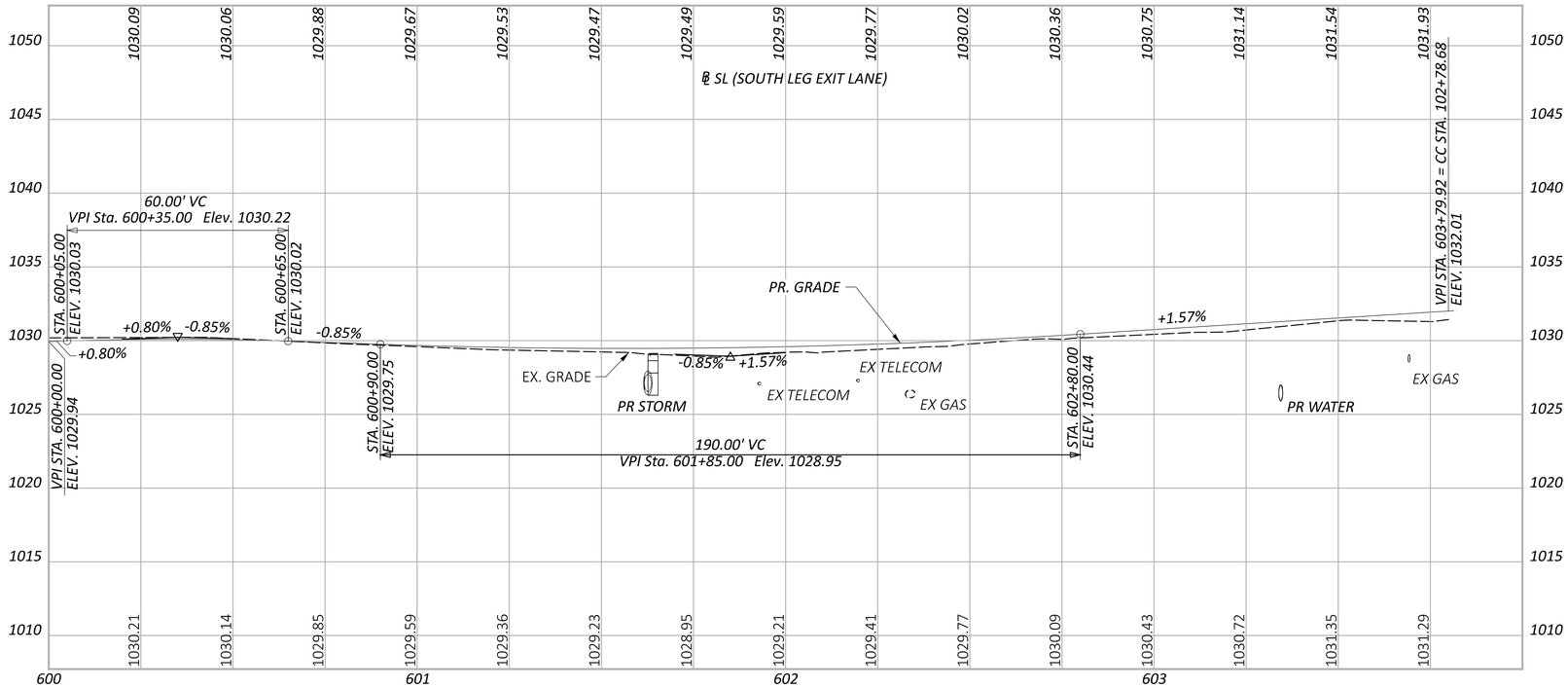
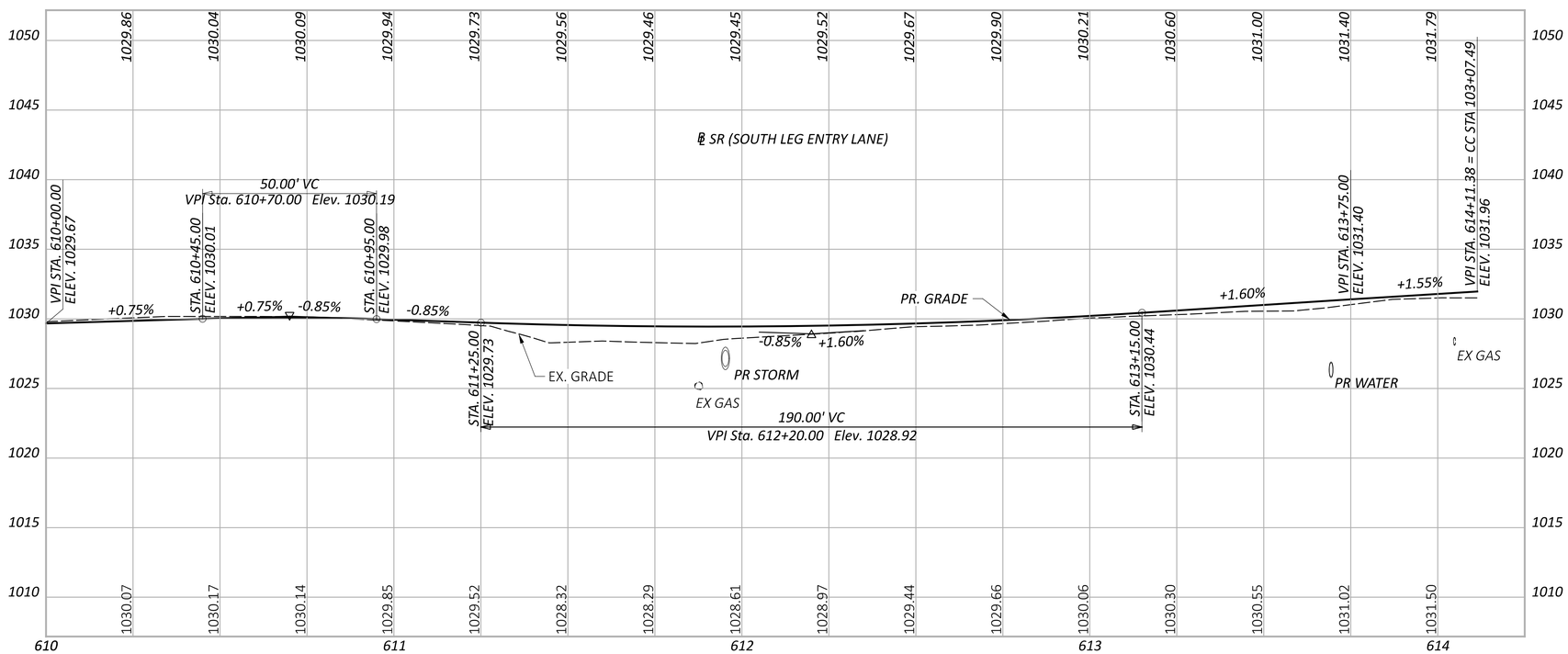




ROUNDABOUT B/L PROFILES
B/L SL AND B/L SR (SOUTH LEG)

DESIGN AGENCY

OHM

DESIGNER
BLC

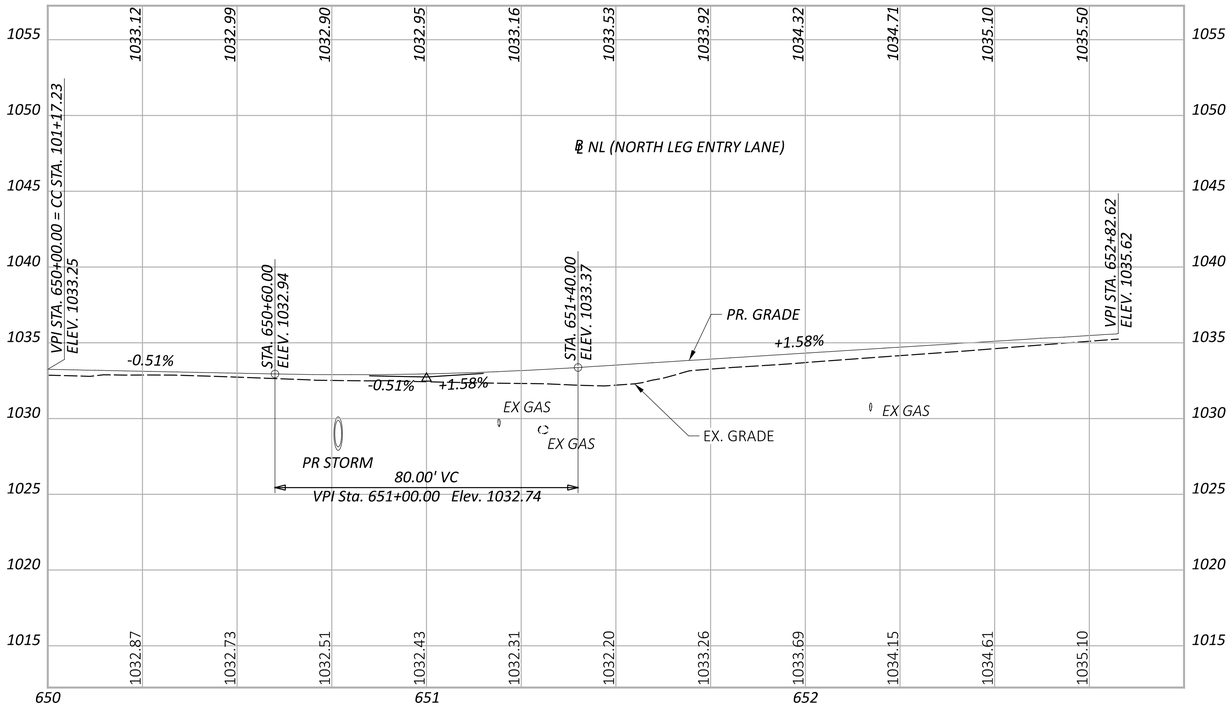
REVIEWER
SEO 08/15/25

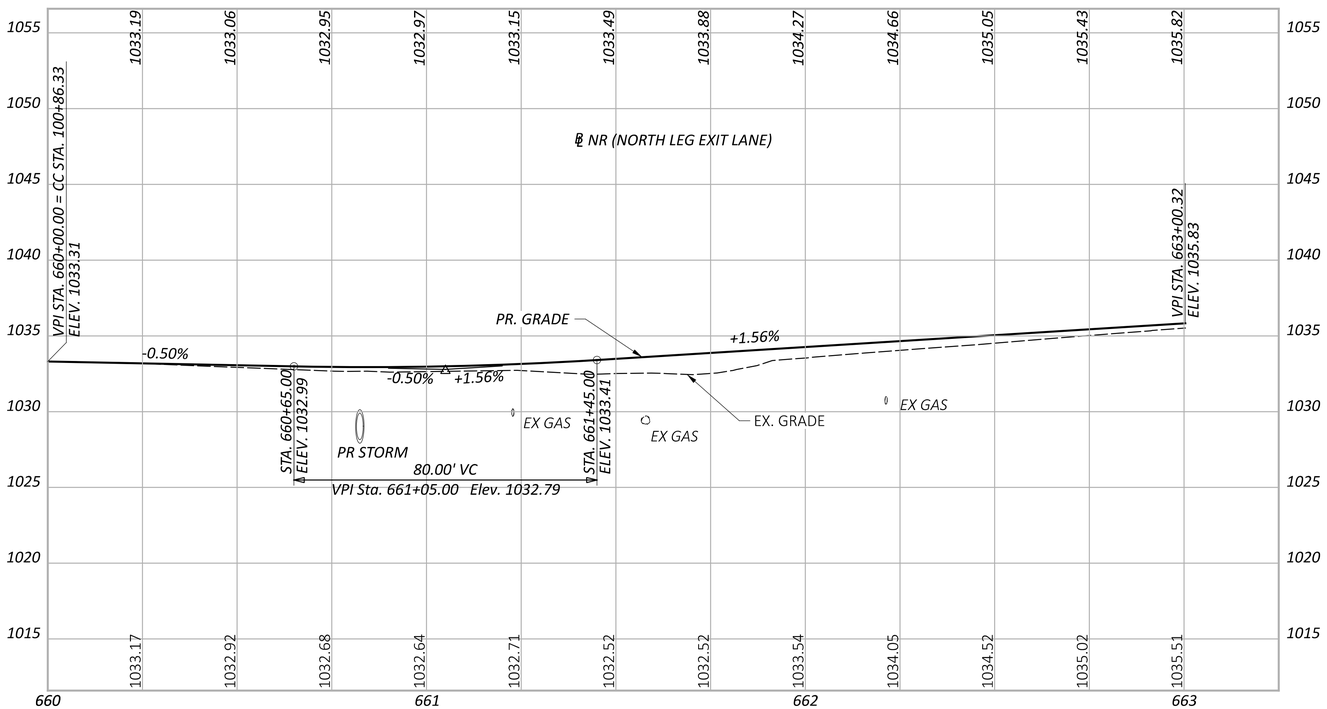
PROJECT ID
113650

SHEET P.34 TOTAL 101

FAI-204-04.30

MODEL: PGL_SL - Profile 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:19:37 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Fairfield\113650\401-Engineering_OHMAdvisors\Roadway\Sheets\113650_GF001.dgn





ROUNDABOUT B/L PROFILES
B/L NL AND B/L NR (NORTH LEG)

DESIGN AGENCY

OHM

DESIGNER
BLC

REVIEWER
SEO 08/15/25

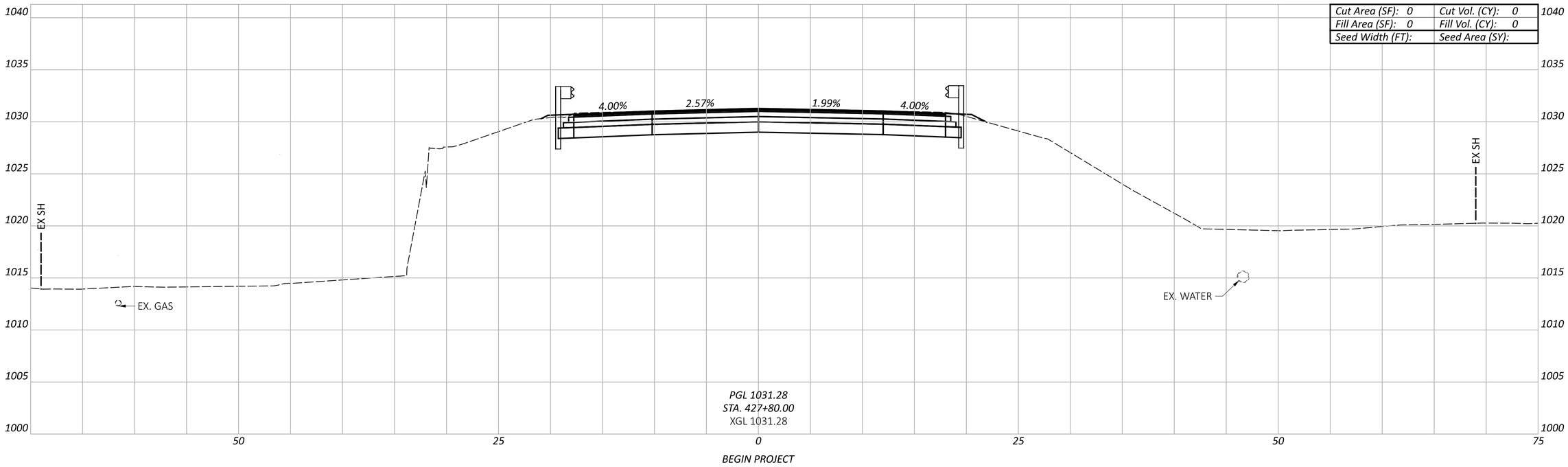
PROJECT ID
113650

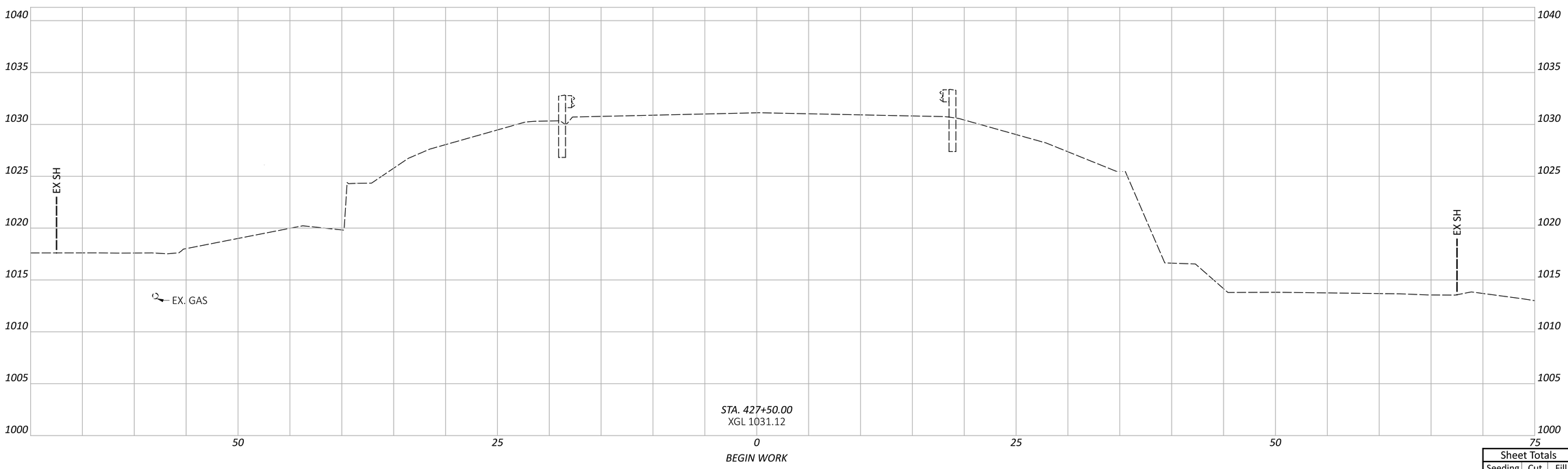
SHEET P.35 TOTAL 101

FAI-204-04.30

MODEL: PGL_NL - Profile 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:19:39 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Fairfield\113650\401-Engineering_OHMAdvisors\Roadway\Sheets\113650_GF001.dgn

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





Sheet Totals		
Seeding	Cut	Fill
	28	0

CROSS SECTIONS - SR 204 (WEST LEG)
STA. 427+50.00 TO STA. 427+80.00

DESIGN AGENCY

OHM

DESIGNER
HAC

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.36 TOTAL 101

FAI-204-04.30

MODEL: CLP_204 - 427+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:19:54 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
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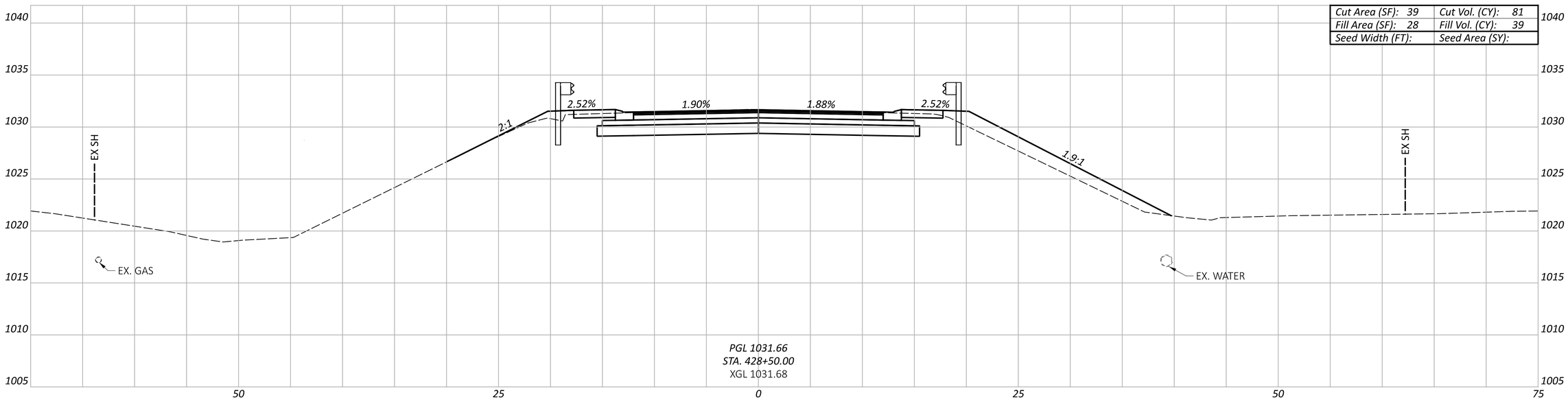
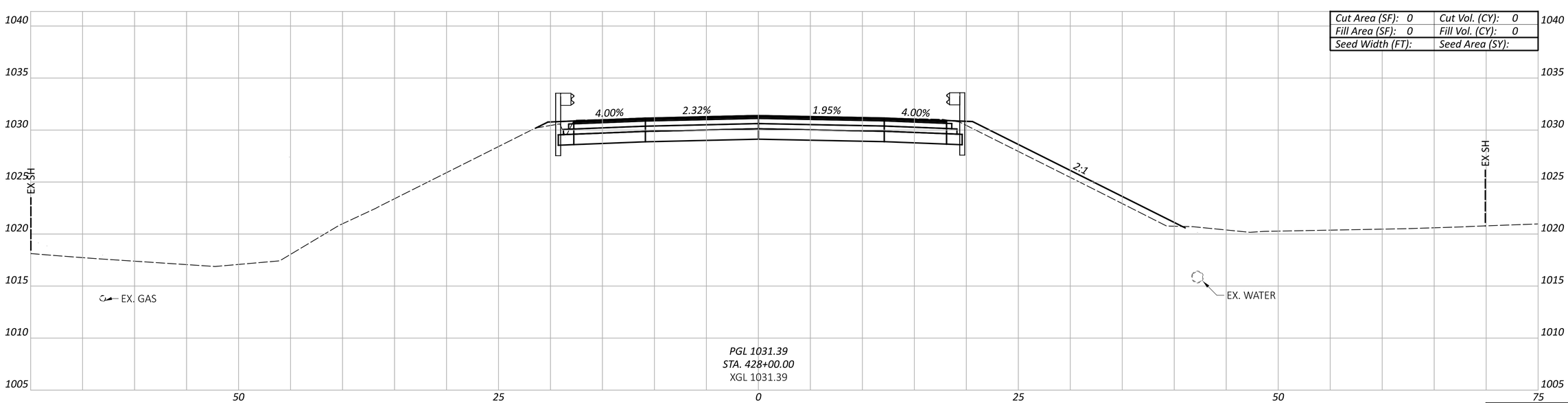
Cut Area (SF): 39	Cut Vol. (CY): 81
Fill Area (SF): 28	Fill Vol. (CY): 39
Seed Width (FT):	Seed Area (SY):



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



Sheet Totals		
Seeding	Cut	Fill
	117	45

CROSS SECTIONS - SR 204 (WEST LEG)
STA. 428+00.00 TO STA. 428+50.00

DESIGN AGENCY

OHM

DESIGNER
HAC

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.37 TOTAL 101

FAI-204-04.30

MODEL: CLP_204 - 428+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:20:08 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
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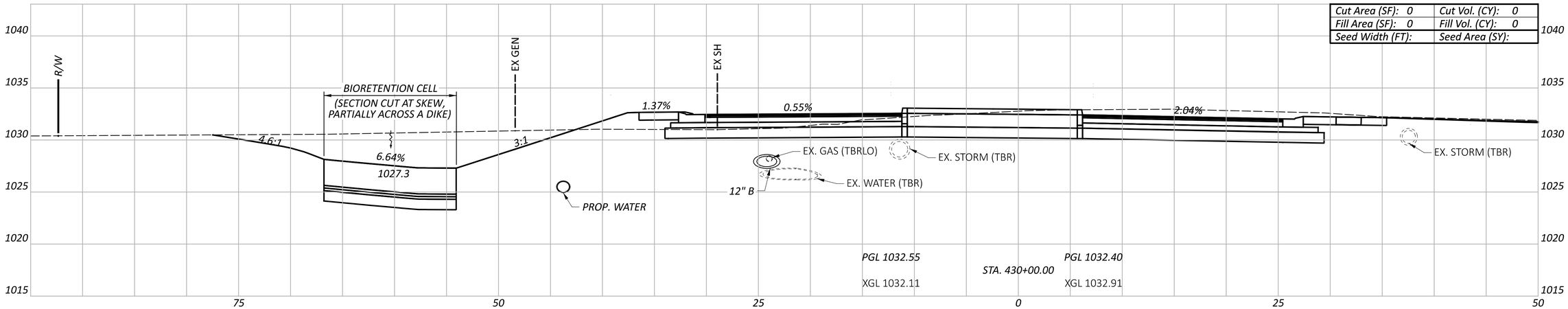
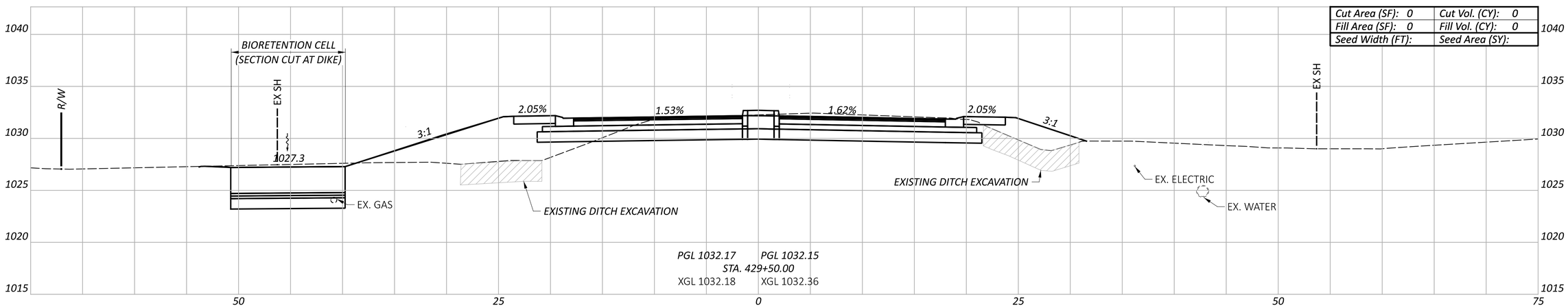
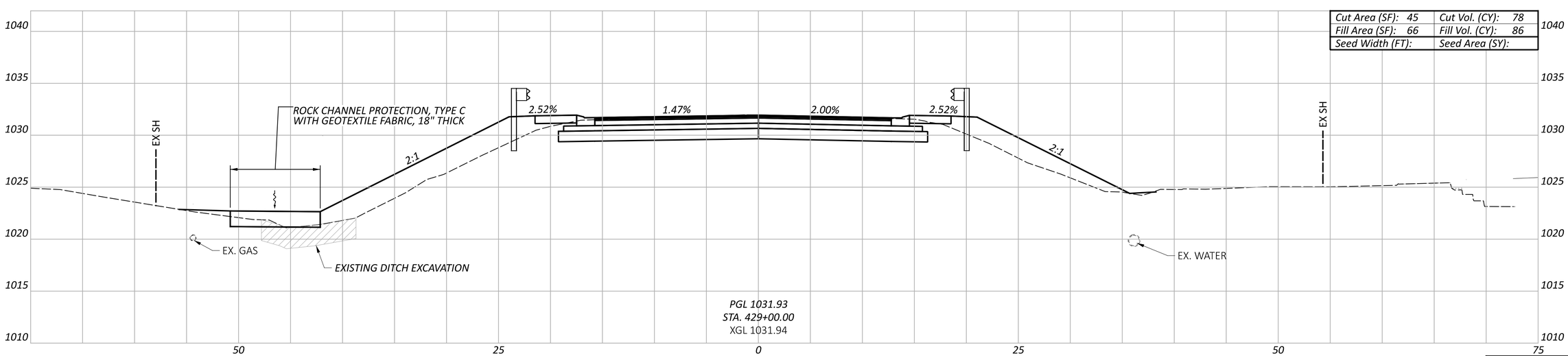






Sheet Totals		
Seeding	Cut	Fill
	471	206

CROSS SECTIONS - SR 204 (WEST LEG)
STA. 429+00.00 TO STA. 430+00.00

DESIGN AGENCY
OHM

DESIGNER
HAC

REVIEWER
SEO 08/15/25

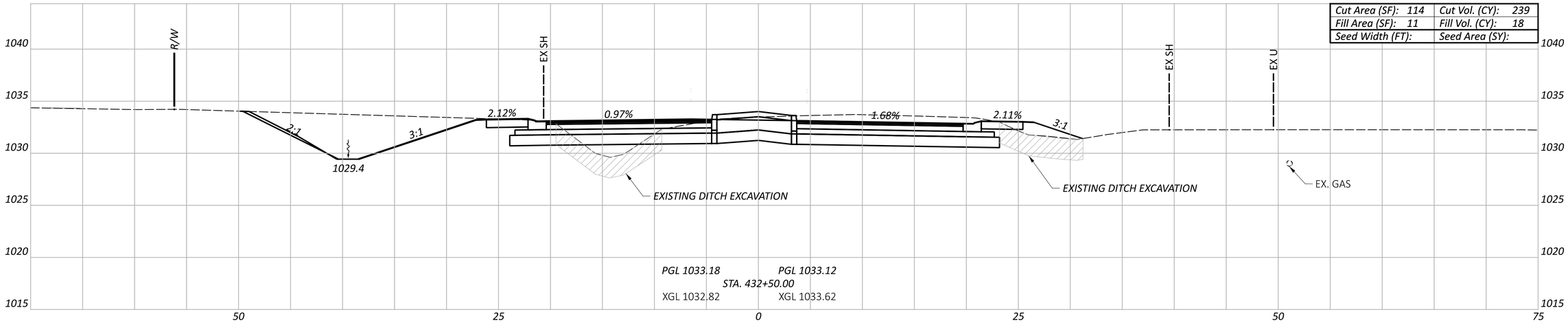
PROJECT ID
113650

SHEET P.38 TOTAL 101

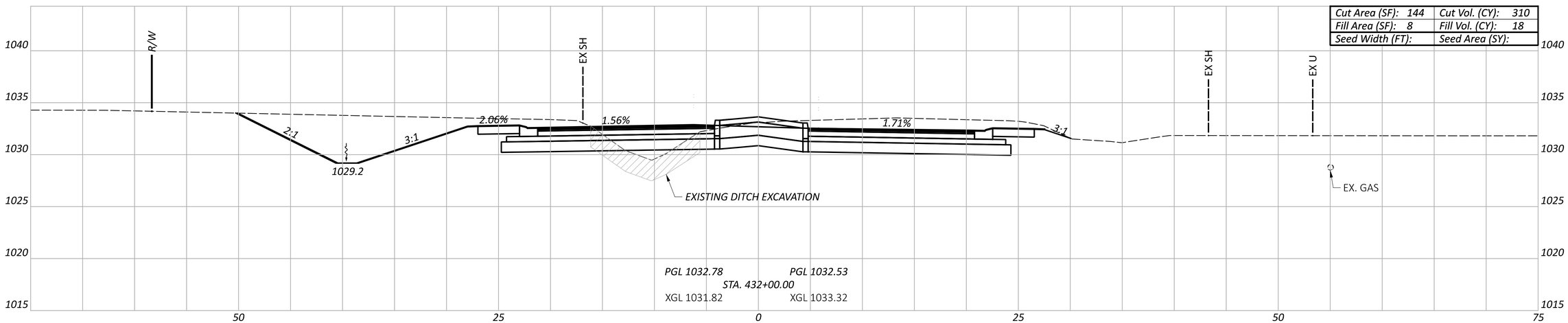
FAI-204-04.30

MODEL: CLP_204 - 429+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:20:21 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Fairfield\113650\401-Engineering_OHMAdvisors\Roadway\Sheets\113650_XS001.dgn

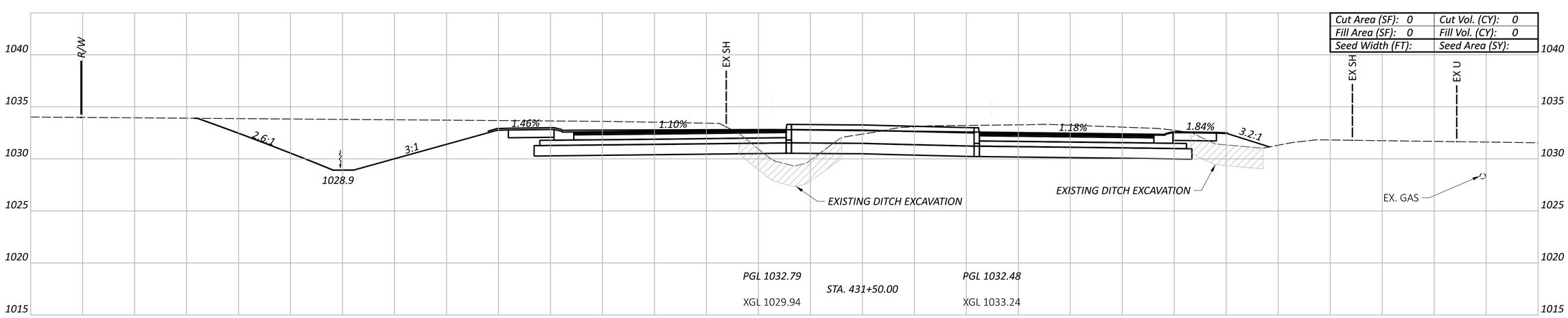
Cut Area (SF): 114	Cut Vol. (CY): 239
Fill Area (SF): 11	Fill Vol. (CY): 18
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 144	Cut Vol. (CY): 310
Fill Area (SF): 8	Fill Vol. (CY): 18
Seed Width (FT):	Seed Area (SY):



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



SEE INTERSECTION DETAILS FOR ROUNDABOUT ELEVATIONS BETWEEN STA. 430+00.00 TO STA. 431+50.00

Sheet Totals		
Seeding	Cut	Fill
	549	36

CROSS SECTIONS - SR 204 (EAST LEG)
STA. 431+50.00 TO STA. 432+50.00

DESIGN AGENCY

OHM

DESIGNER
HAC

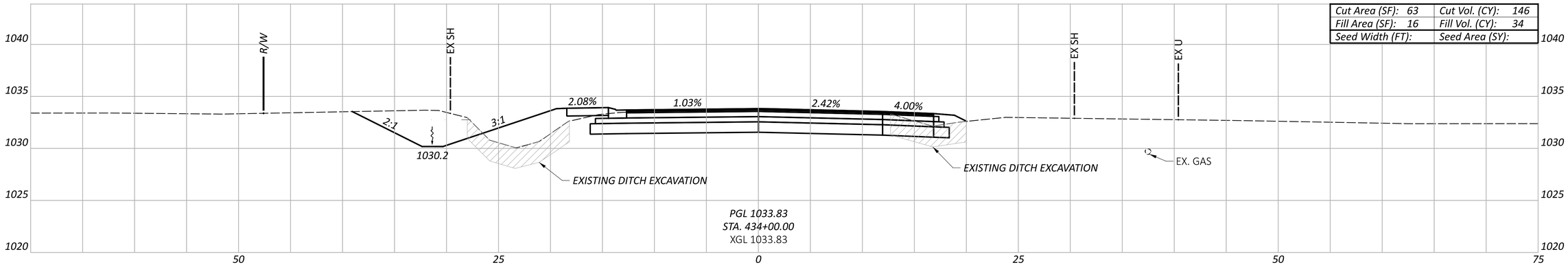
REVIEWER
SEO 08/15/25

PROJECT ID
113650

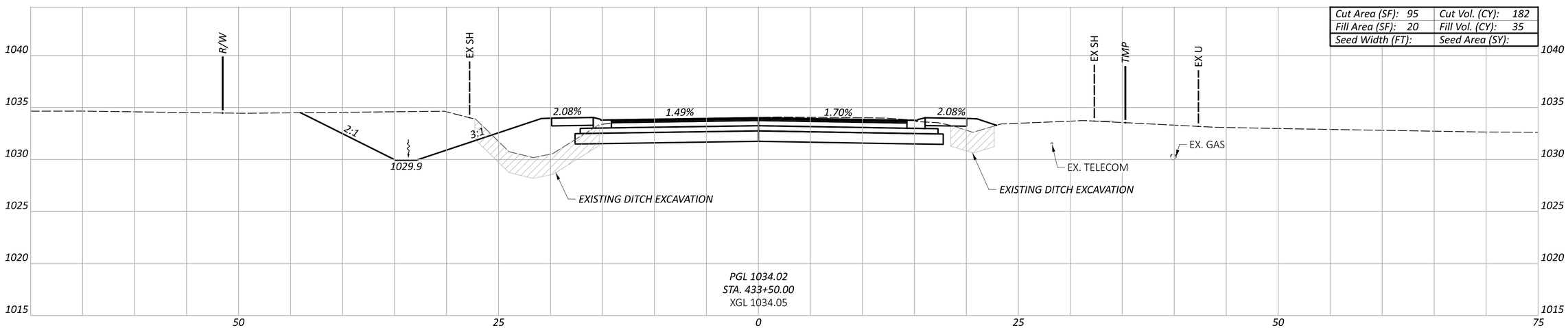
SHEET P.39 TOTAL 101

FAI-204-04.30

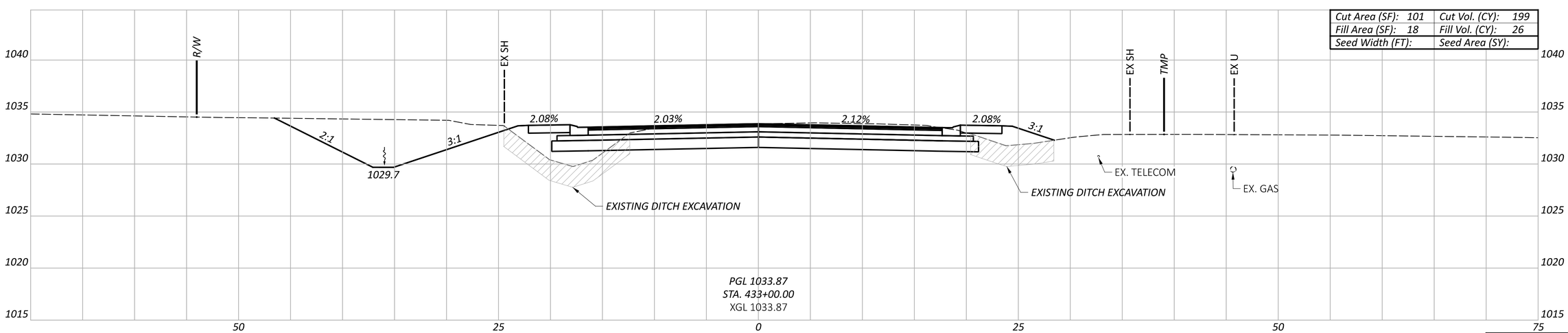
MODEL: CLP_204 - 431+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:20:38 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Fairfield\113650\401-Engineering_OHMAdvisors\Roadway\Sheets\113650_XS001.dgn



Cut Area (SF): 63	Cut Vol. (CY): 146
Fill Area (SF): 16	Fill Vol. (CY): 34
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 95	Cut Vol. (CY): 182
Fill Area (SF): 20	Fill Vol. (CY): 35
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 101	Cut Vol. (CY): 199
Fill Area (SF): 18	Fill Vol. (CY): 26
Seed Width (FT):	Seed Area (SY):

Sheet Totals		
Seeding	Cut	Fill
	527	75

CROSS SECTIONS - SR 204 (EAST LEG)
STA. 433+00.00 TO STA. 434+00.00

DESIGN AGENCY
OHM

DESIGNER
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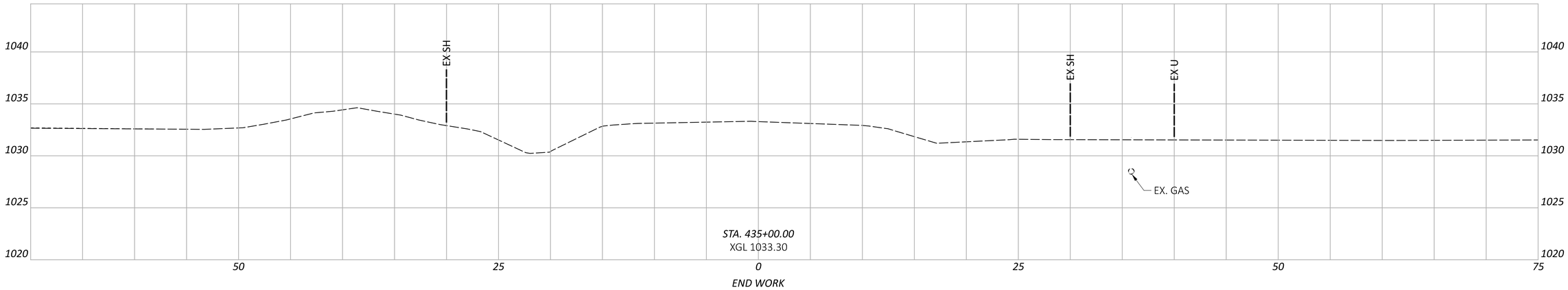
SEO 08/15/25

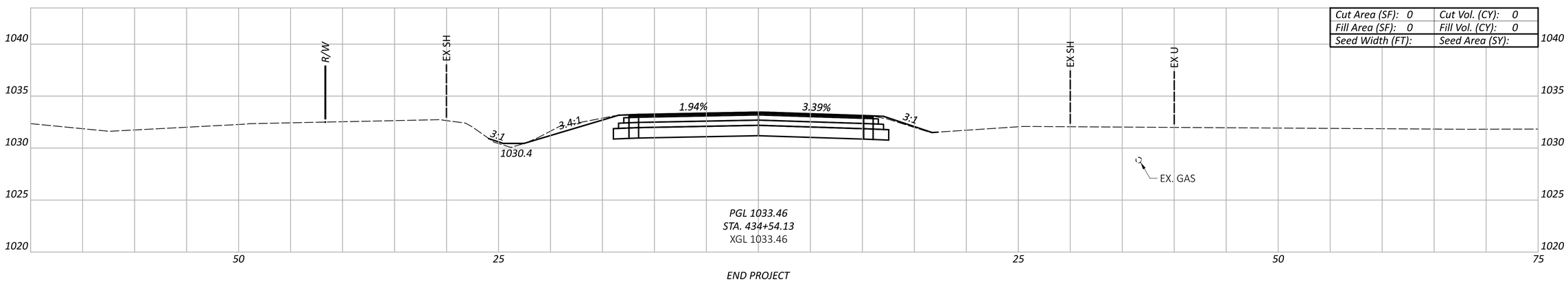
PROJECT ID
113650

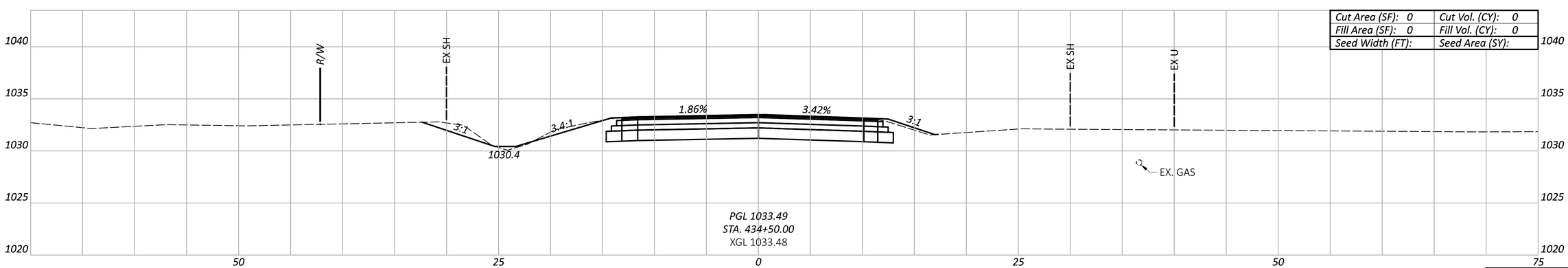
SHEET P.40 TOTAL 101

FAI-204-04.30

MODEL: CLP_204 - 433+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:20:52 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Fairfield\113650\401-Engineering_OHMAdvisors\Roadway\Sheets\113650_XS001.dgn
WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4







Sheet Totals		
Seeding	Cut	Fill
	101	17

CROSS SECTIONS - SR 204 (EAST LEG)
STA. 434+50.00 TO STA. 435+00.00

DESIGN AGENCY

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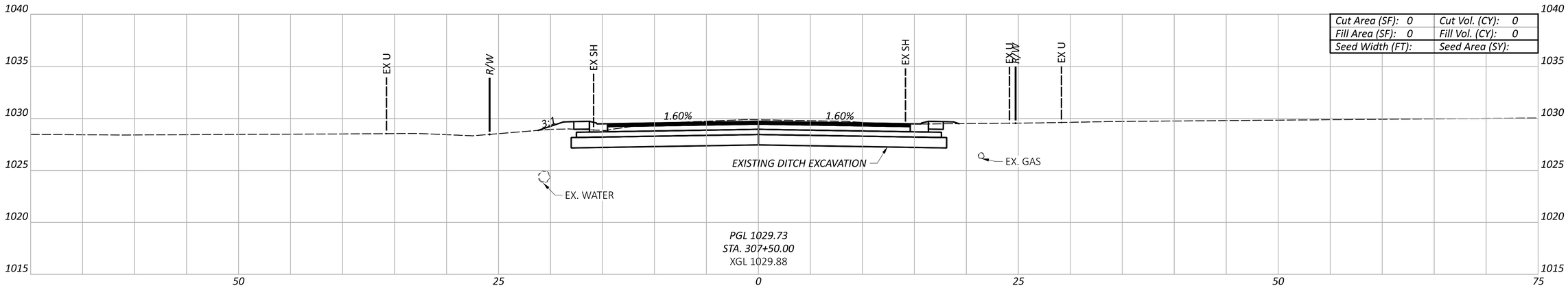
PROJECT ID
113650

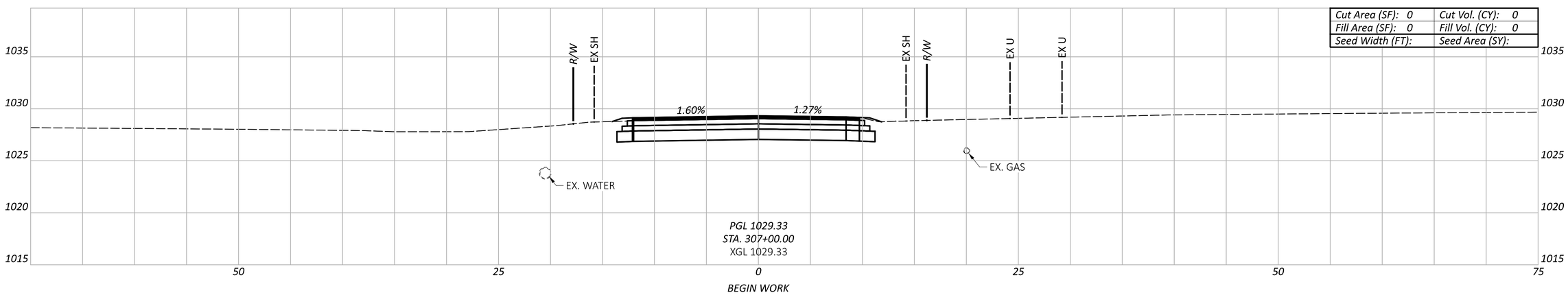
SHEET P.41 TOTAL 101

FAI-204-04.30

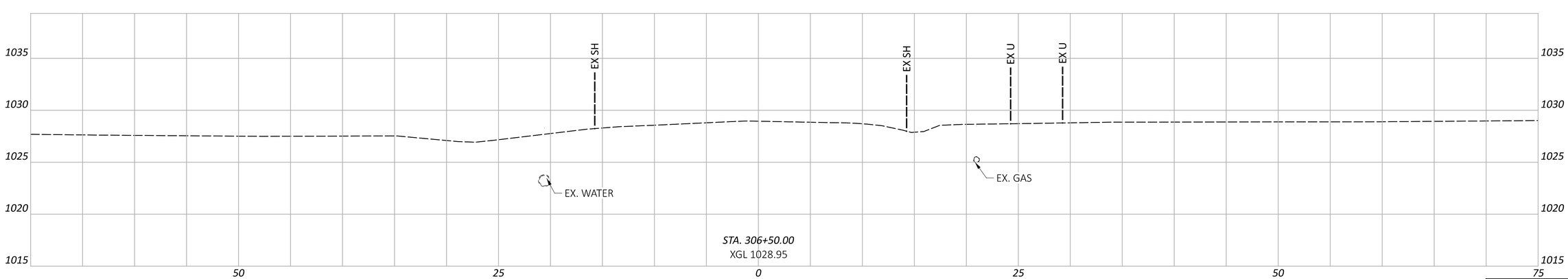
MODEL: CLP_204 - 434+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:21:07 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Fairfield\113650\401-Engineering_OHMAdvisors\Roadway\Sheets\113650_XS001.dgn



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



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



Sheet Totals		
Seeding	Cut	Fill
	95	2

CROSS SECTIONS - TOLL GATE ROAD (SOUTH LEG)
STA. 306+50.00 TO STA. 307+50.00

DESIGN AGENCY
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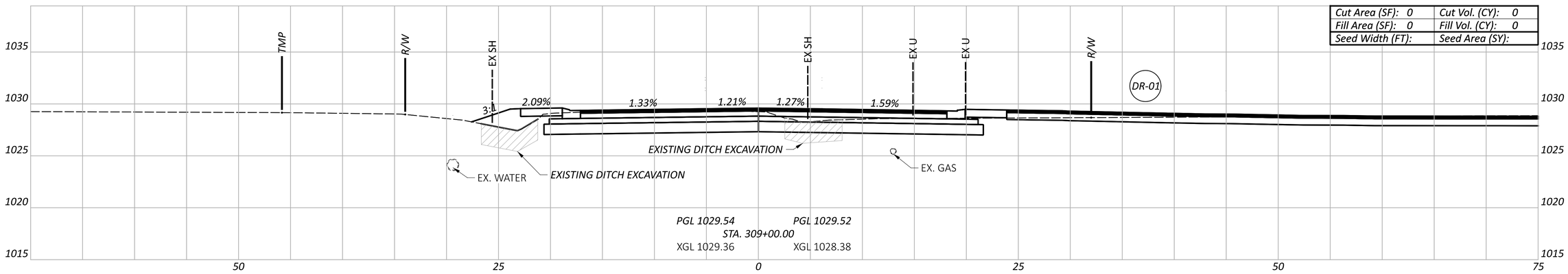
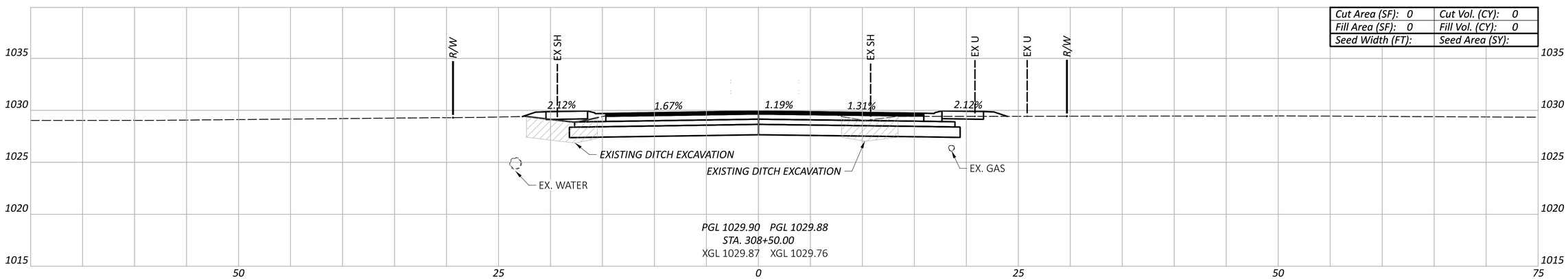
PROJECT ID
113650

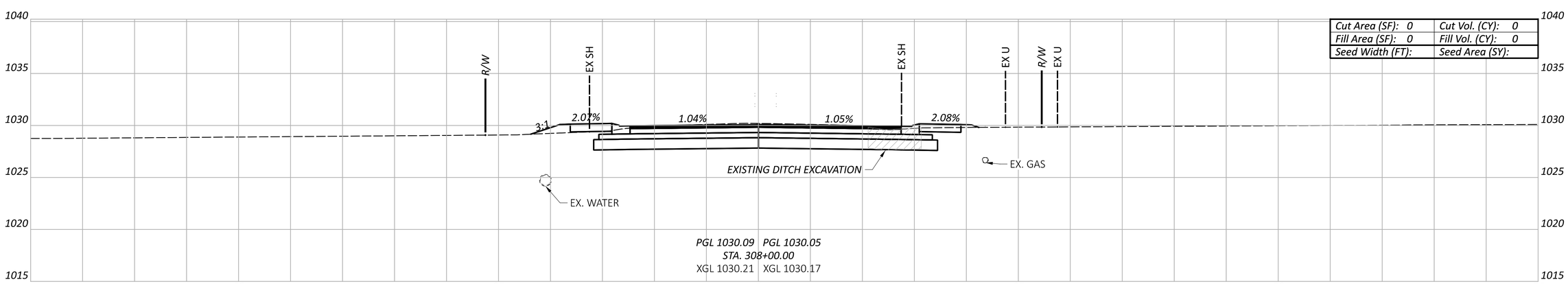
SHEET P.42 TOTAL 101

FAI-204-04.30

MODEL: CLP_TollGate - 306+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:21:38 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Fairfield\113650\401-Engineering_OHMAdvisors\Roadway\Sheets\113650_XS002.dgn







CROSS SECTIONS - TOLL GATE ROAD (SOUTH LEG)
STA. 308+00.00 TO STA. 309+00.00

Sheet Totals		
Seeding	Cut	Fill
	235	8

DESIGN AGENCY

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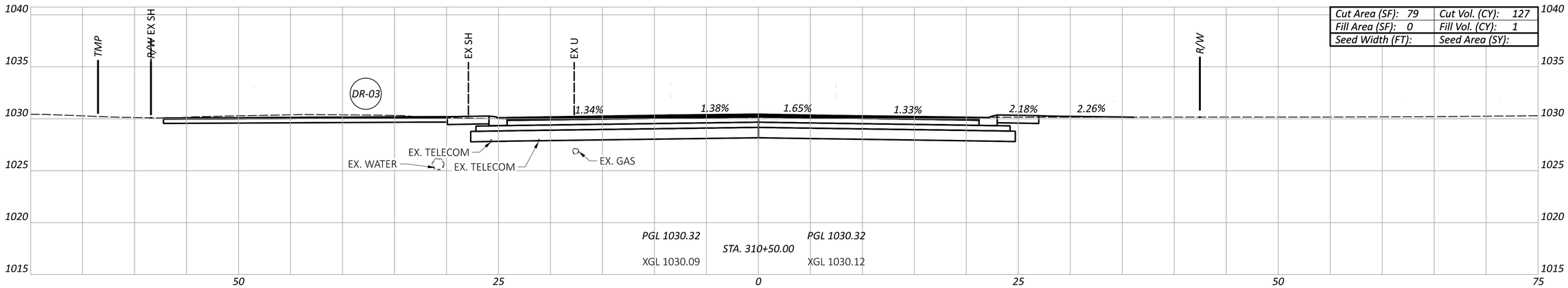
SEO 08/15/25

PROJECT ID
113650

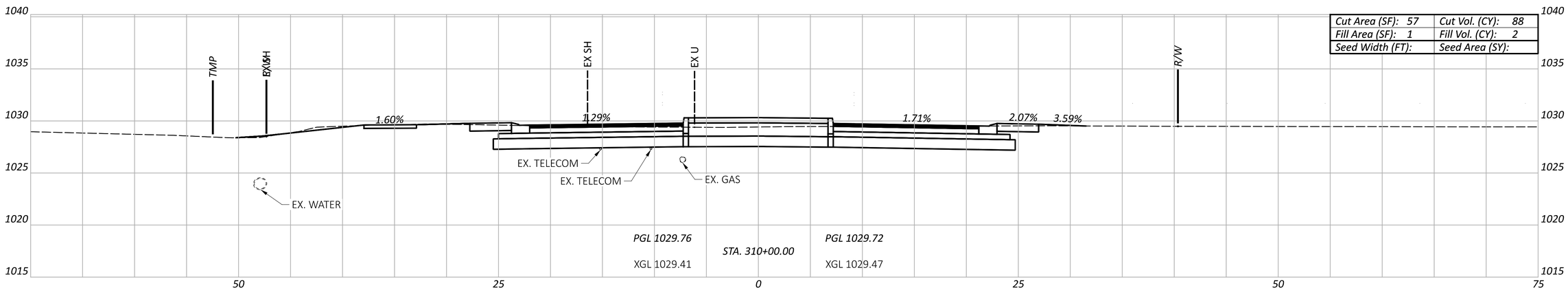
SHEET P.43 TOTAL 101

FAI-204-04.30

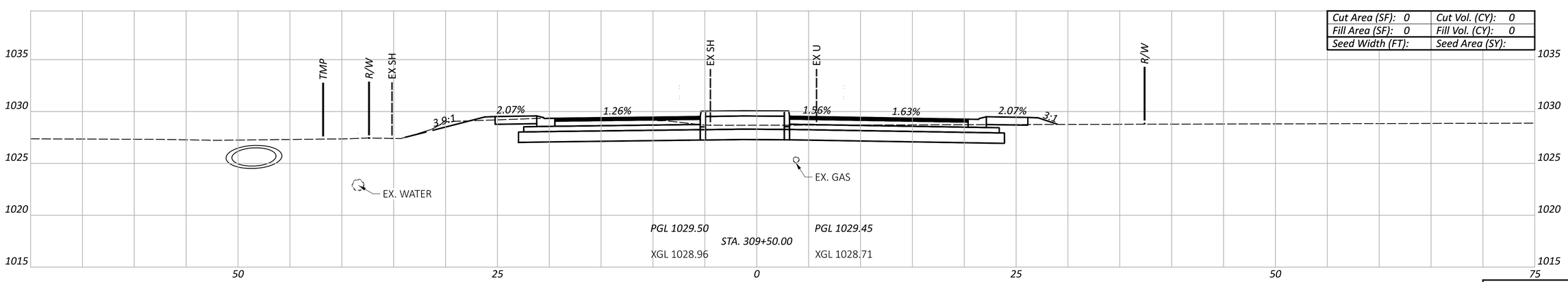
MODEL: CLP_TollGate - 308+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:21:48 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Fairfield\113650\401-Engineering_OHMAdvisors\Roadway\Sheets\113650_XS002.dgn



Cut Area (SF): 79	Cut Vol. (CY): 127
Fill Area (SF): 0	Fill Vol. (CY): 1
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 57	Cut Vol. (CY): 88
Fill Area (SF): 1	Fill Vol. (CY): 2
Seed Width (FT):	Seed Area (SY):



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

Sheet Totals		
Seeding	Cut	Fill
	298	5

CROSS SECTIONS - TOLL GATE ROAD (SOUTH LEG)
STA. 309+50.00 TO STA. 310+50.00

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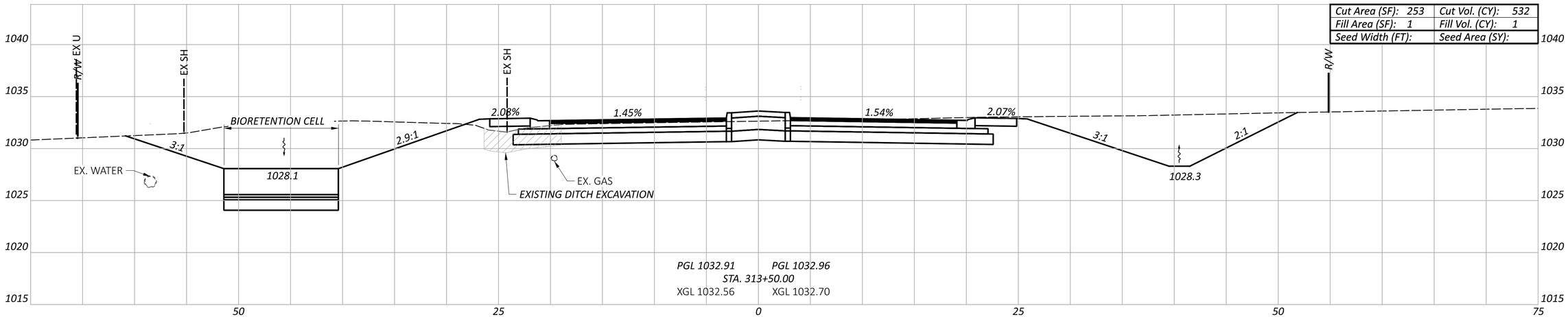
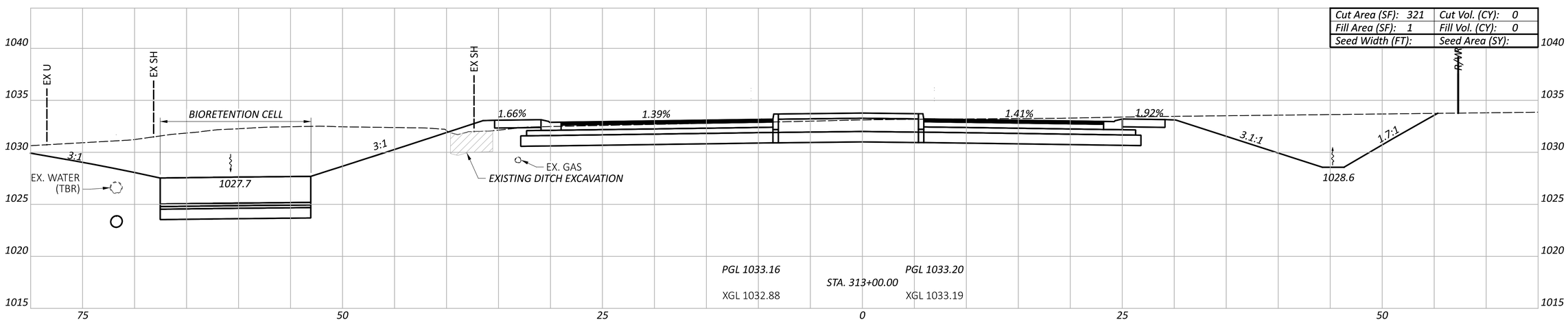
PROJECT ID
113650

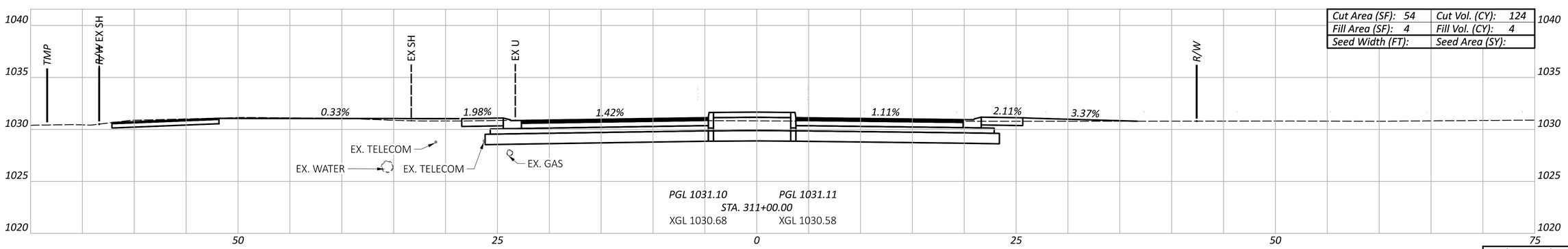
SHEET P.44 TOTAL 101

FAI-204-04.30





SEE INTERSECTION DETAILS FOR ROUNDABOUT ELEVATIONS BETWEEN STA. 311+00.00 TO STA. 313+00.00



Sheet Totals		
Seeding	Cut	Fill
	656	5

CROSS SECTIONS - TOLL GATE ROAD (SOUTH & NORTH LEG)
STA. 311+00.00 TO STA. 313+50.00

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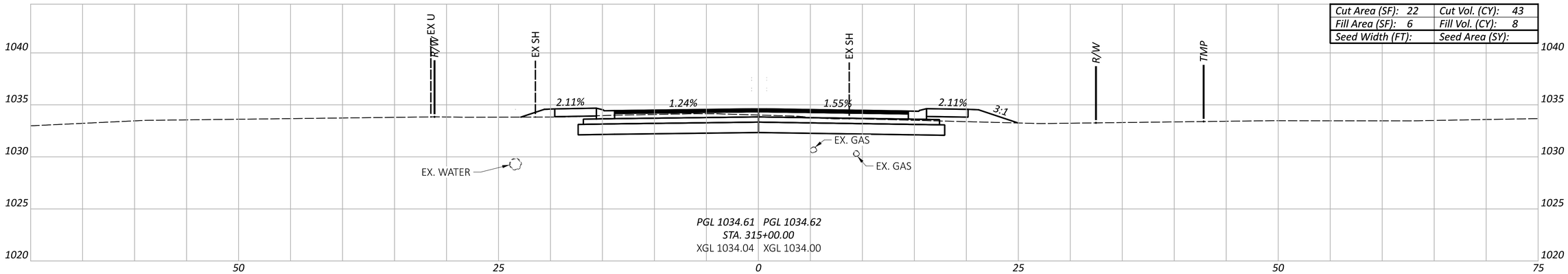
PROJECT ID
113650

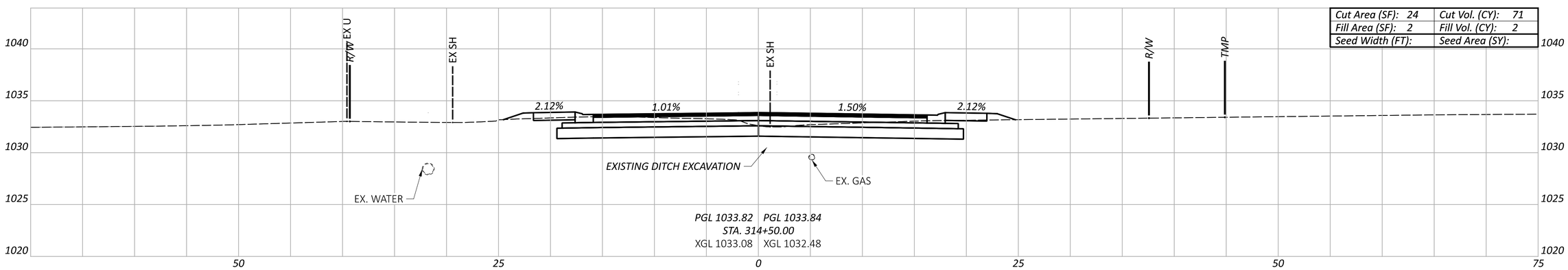
SHEET P.45 TOTAL 101

FAI-204-04.30

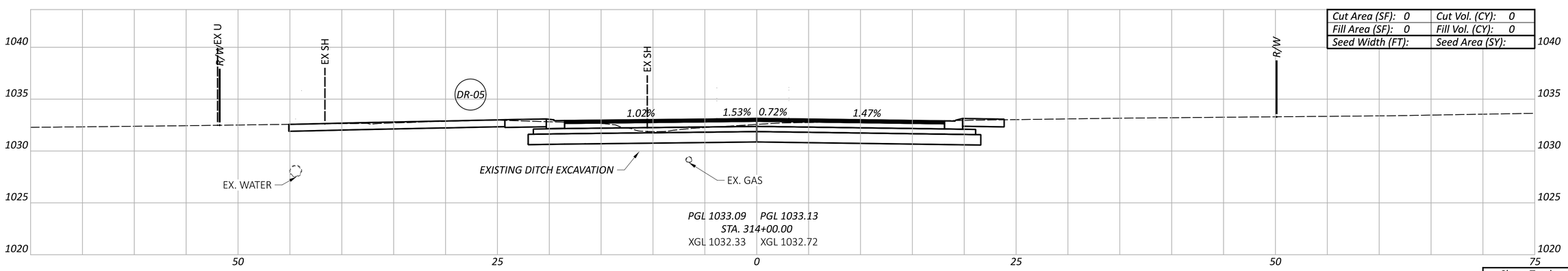
MODEL: CLP_TollGate - 311+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:22:01 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Fairfield\113650\401-Engineering_OHMAdvisors\Roadway\Sheets\113650_XS002.dgn



Cut Area (SF): 22	Cut Vol. (CY): 43
Fill Area (SF): 6	Fill Vol. (CY): 8
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 24	Cut Vol. (CY): 71
Fill Area (SF): 2	Fill Vol. (CY): 2
Seed Width (FT):	Seed Area (SY):



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

Sheet Totals		
Seeding	Cut	Fill
	397	11

CROSS SECTIONS - TOLL GATE ROAD (NORTH LEG)
STA. 314+00.00 TO STA. 315+00.00

DESIGN AGENCY
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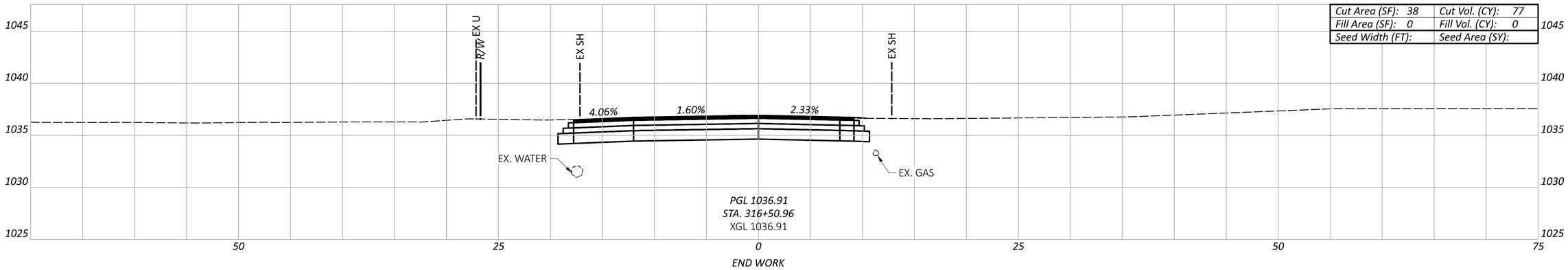
SEO 08/15/25

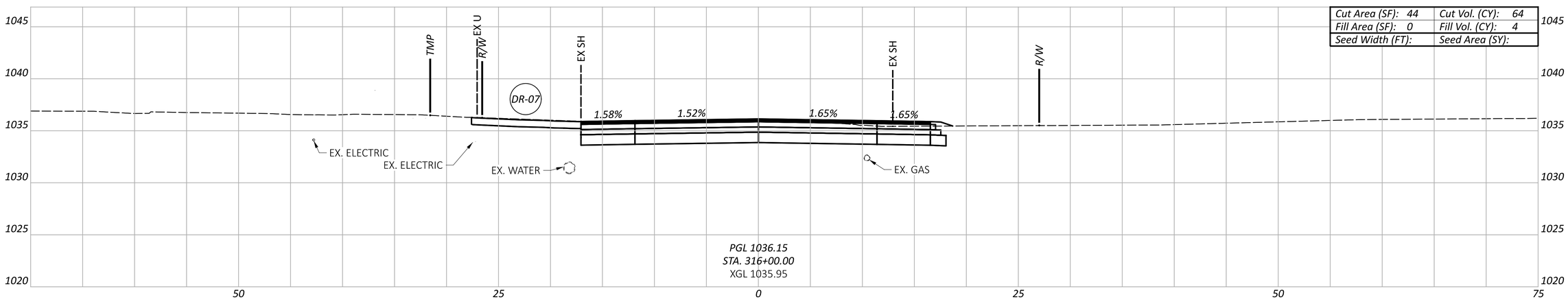
PROJECT ID
113650

SHEET P.46 TOTAL 101

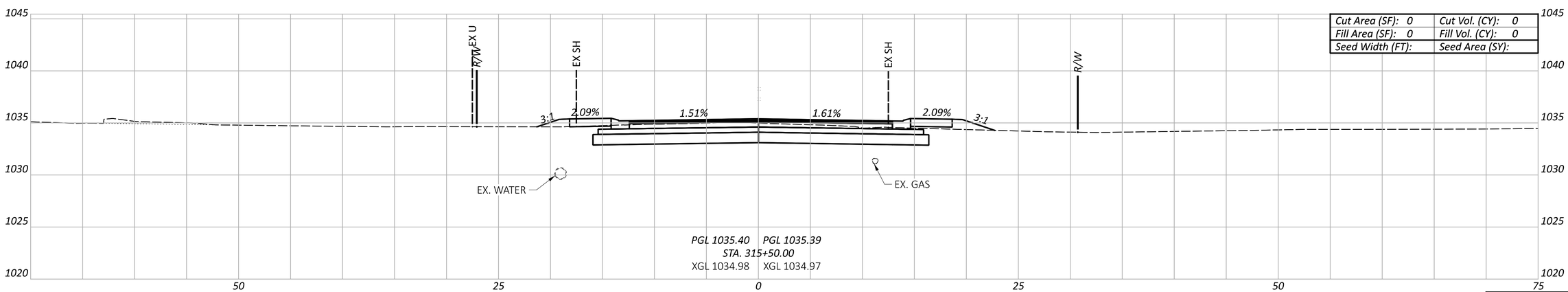
FAI-204-04.30



Cut Area (SF): 38	Cut Vol. (CY): 77
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 44	Cut Vol. (CY): 64
Fill Area (SF): 0	Fill Vol. (CY): 4
Seed Width (FT):	Seed Area (SY):



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

Sheet Totals		
Seeding	Cut	Fill
	185	14

CROSS SECTIONS - TOLL GATE ROAD (NORTH LEG)
STA. 315+50.00 TO STA. 316+50.96

DESIGN AGENCY
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SEO 08/15/25

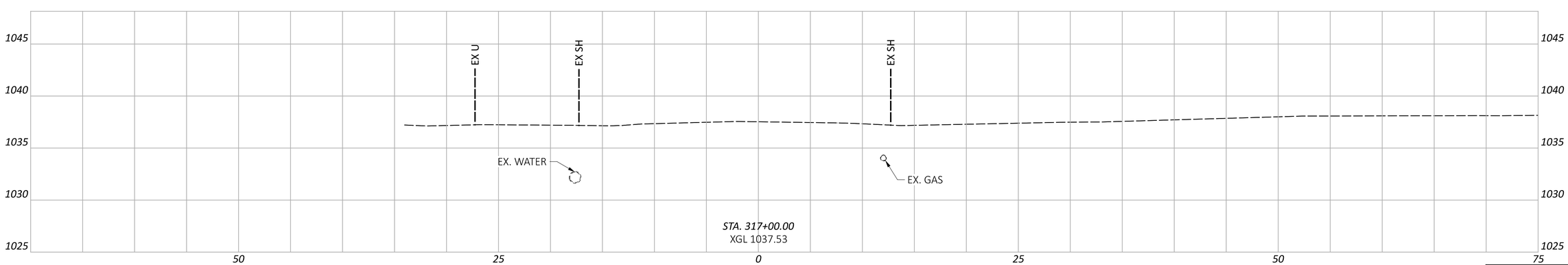
PROJECT ID
113650

SHEET P.47 TOTAL 101

FAI-204-04.30

FAI-204-04.30

MODEL: CLP_TollGate - 317+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:22:22 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Fairfield\113650\401-Engineering_OHMAdvisors\Roadway\Sheets\113650_XS002.dgn



Sheet Totals		
Seeding	Cut	Fill
	0	0

CROSS SECTIONS - TOLL GATE ROAD (NORTH LEG)
STA. 317+00.00

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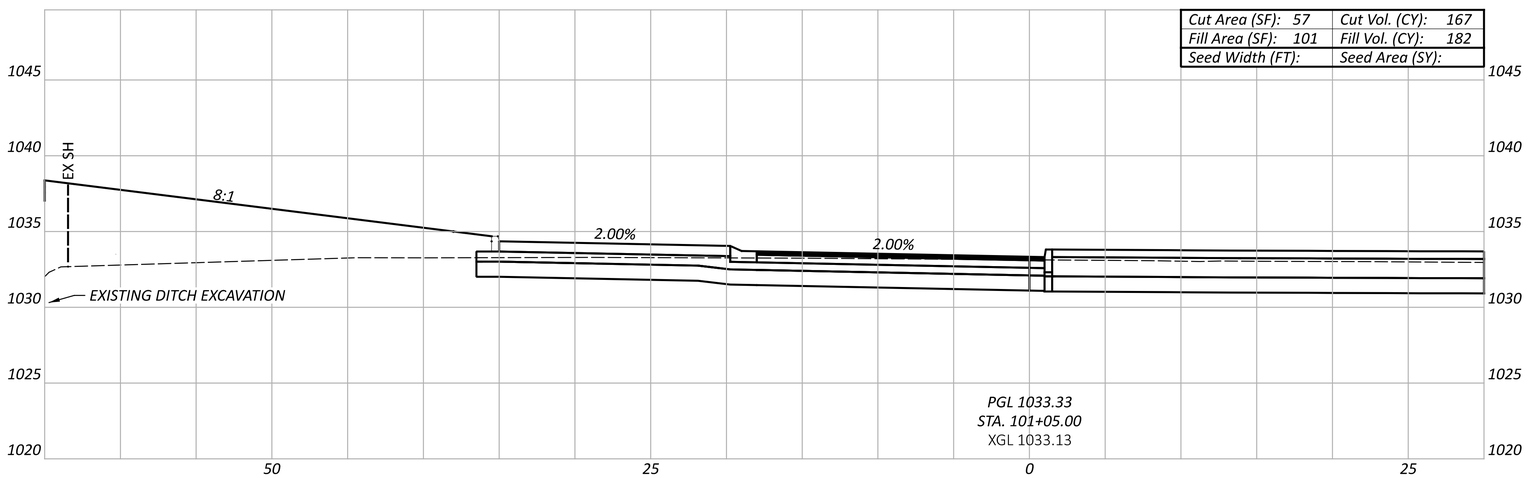
PROJECT ID
113650

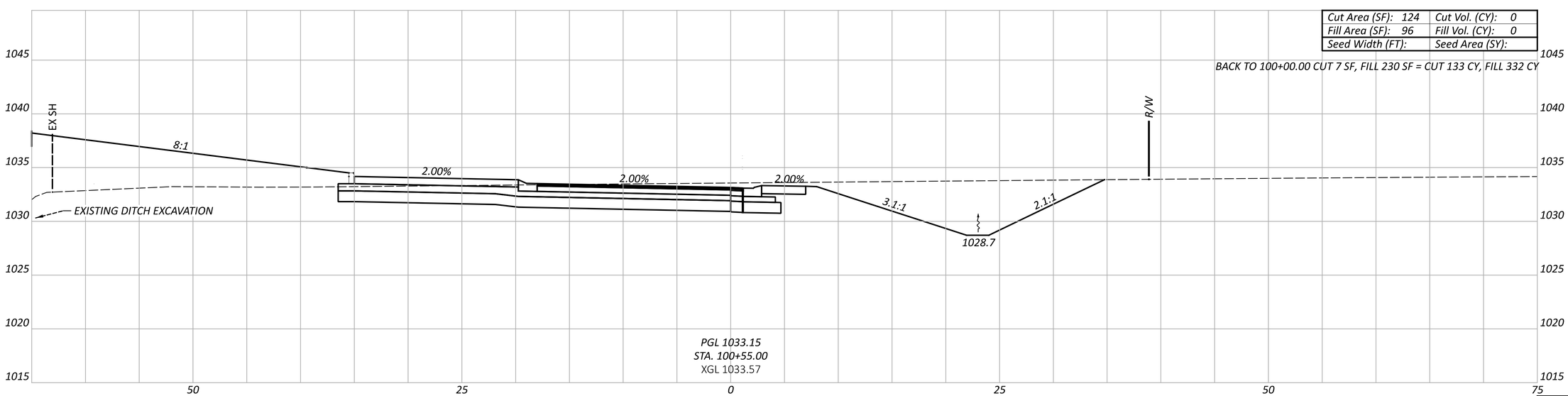
SHEET P.48 TOTAL 101

Cut Area (SF): 57	Cut Vol. (CY): 167
Fill Area (SF): 101	Fill Vol. (CY): 182
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 124	Cut Vol. (CY): 0
Fill Area (SF): 96	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):

BACK TO 100+00.00 CUT 7 SF, FILL 230 SF = CUT 133 CY, FILL 332 CY



Sheet Totals		
Seeding	Cut	Fill
	300	510

CROSS SECTIONS - ROUNDABOUT
STA. 100+55.00 TO STA. 105+05.00

DESIGN AGENCY
OHM

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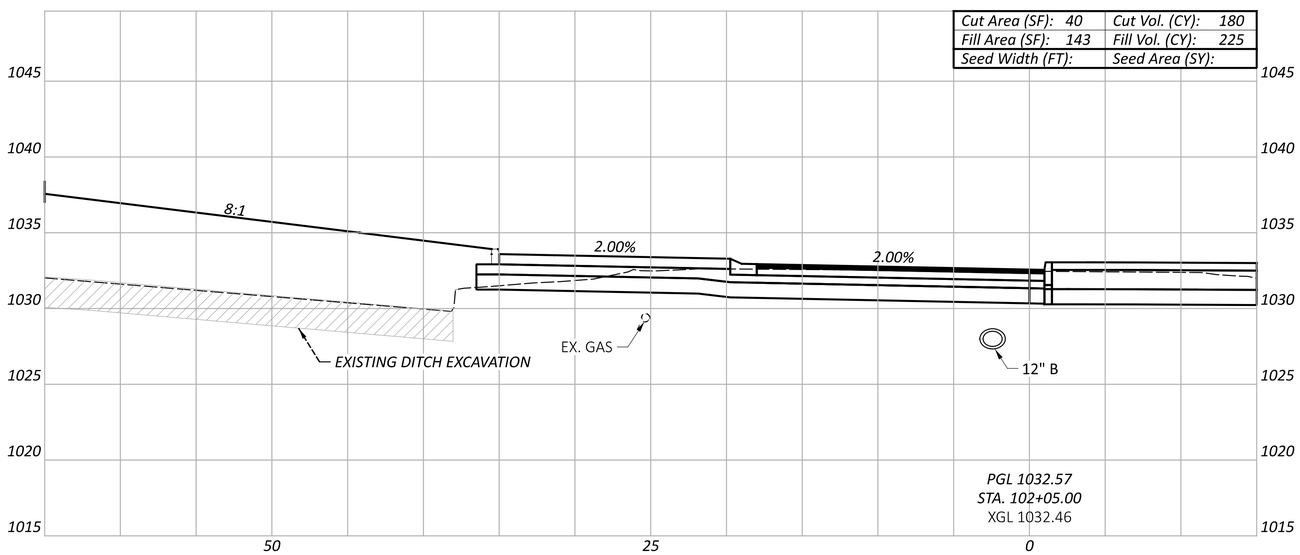
SEO 08/15/25

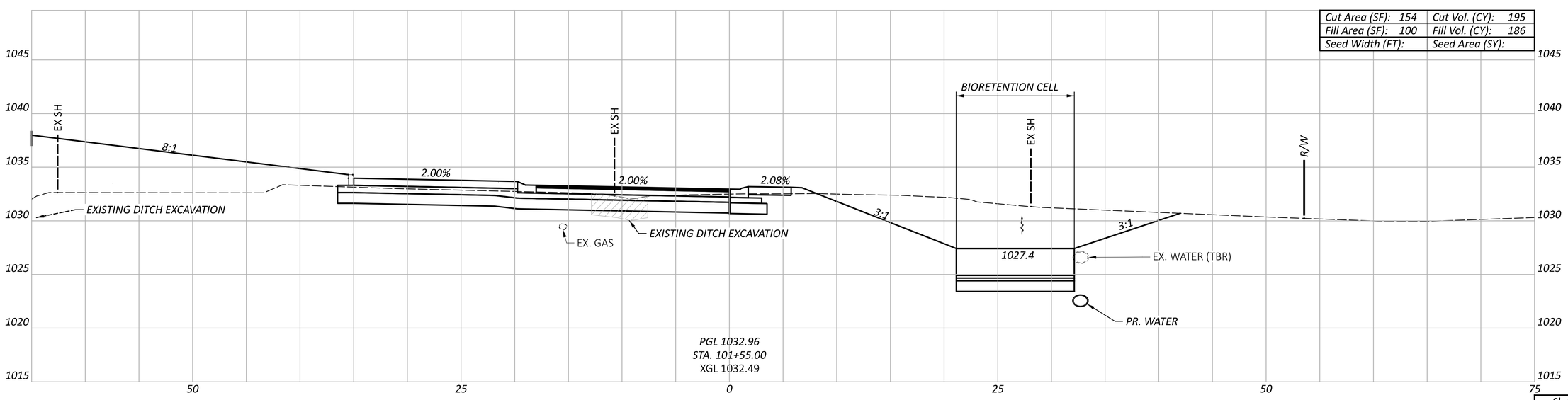
PROJECT ID
113650

SHEET P.49 TOTAL 101

FAI-204-04.30

MODEL: BLP_CC - 100+55.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:22:43 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Fairfield\113650\401-Engineering_OHMAdvisors\Roadway\Sheets\113650_XS003.dgn





Sheet Totals		
Seeding	Cut	Fill
	375	411

CROSS SECTIONS - ROUNDABOUT
STA. 101+55.00 TO STA. 102+05.00

DESIGN AGENCY
OHM

DESIGNER
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REVIEWER
SEO 08/15/25

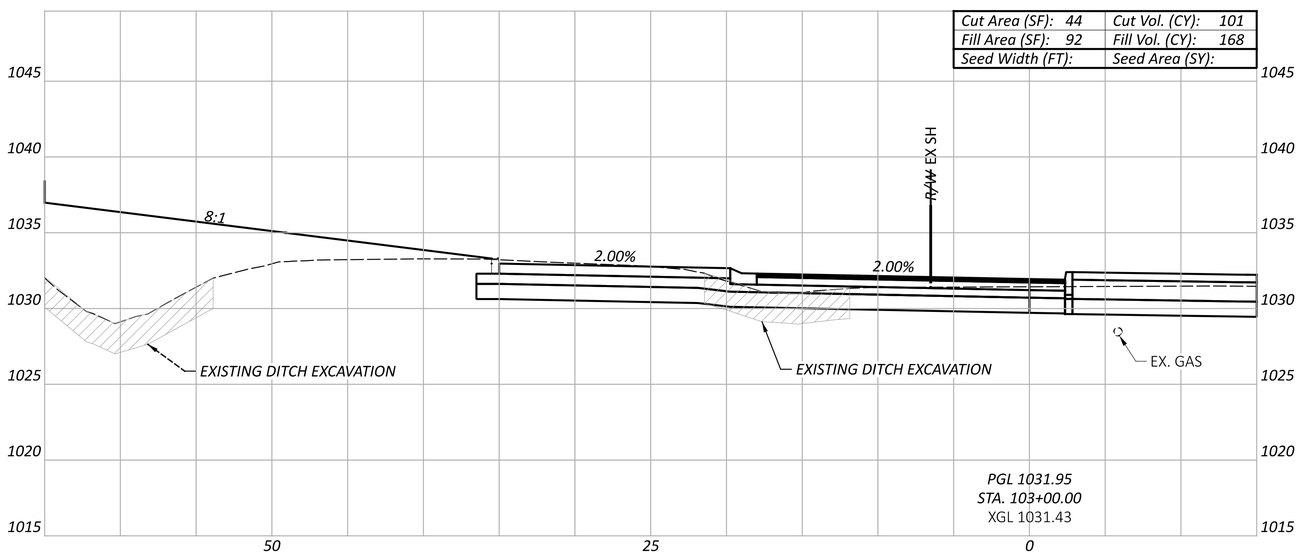
PROJECT ID
113650

SHEET P.50 TOTAL 101

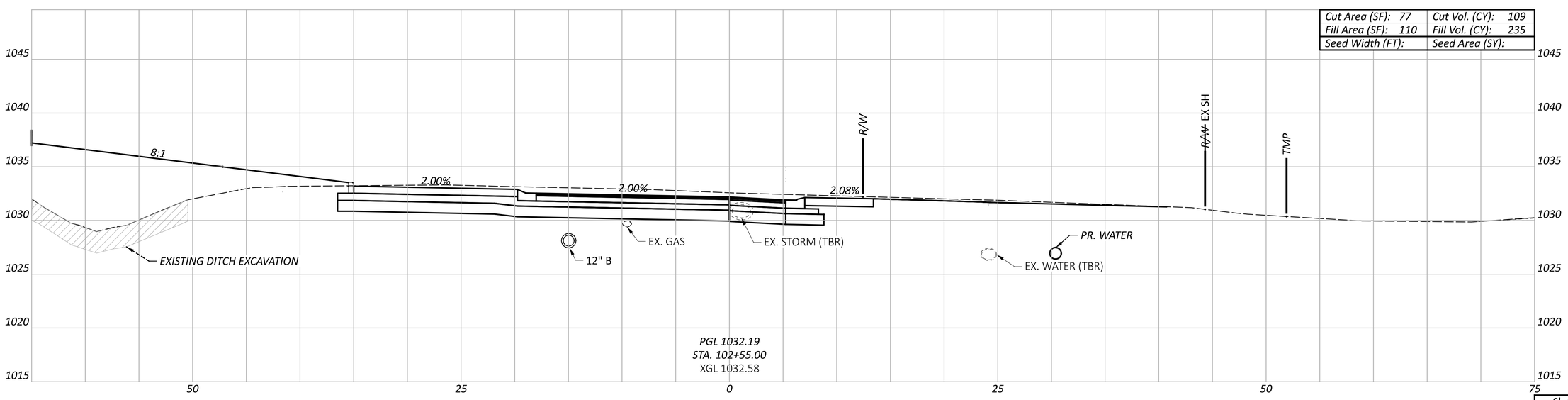
FAI-204-04.30

MODEL: BLP_CC - 101+55.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:23:01 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Fairfield\113650\401-Engineering_OHMAdvisors\Roadway\Sheets\113650_XS003.dgn

Cut Area (SF): 44	Cut Vol. (CY): 101
Fill Area (SF): 92	Fill Vol. (CY): 168
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 77	Cut Vol. (CY): 109
Fill Area (SF): 110	Fill Vol. (CY): 235
Seed Width (FT):	Seed Area (SY):



Sheet Totals		
Seeding	Cut	Fill
	210	199

CROSS SECTIONS - ROUNDABOUT
STA. 102+55.00 TO STA. 103+00.00

DESIGN AGENCY
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REVIEWER
SEO 08/15/25

PROJECT ID
113650

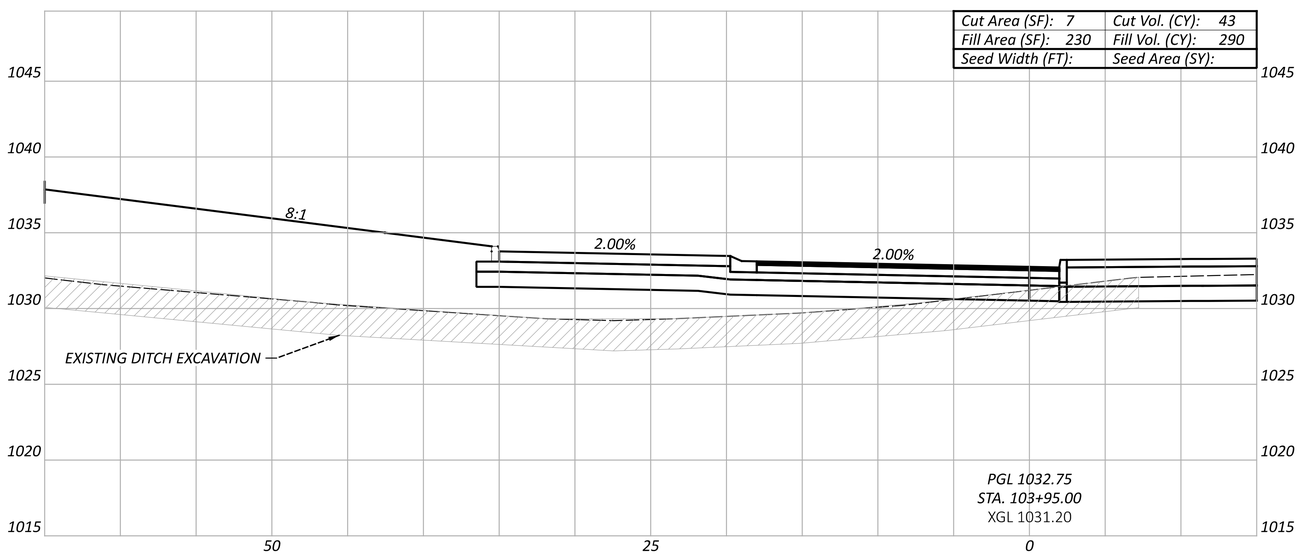
SHEET P.51 TOTAL 101

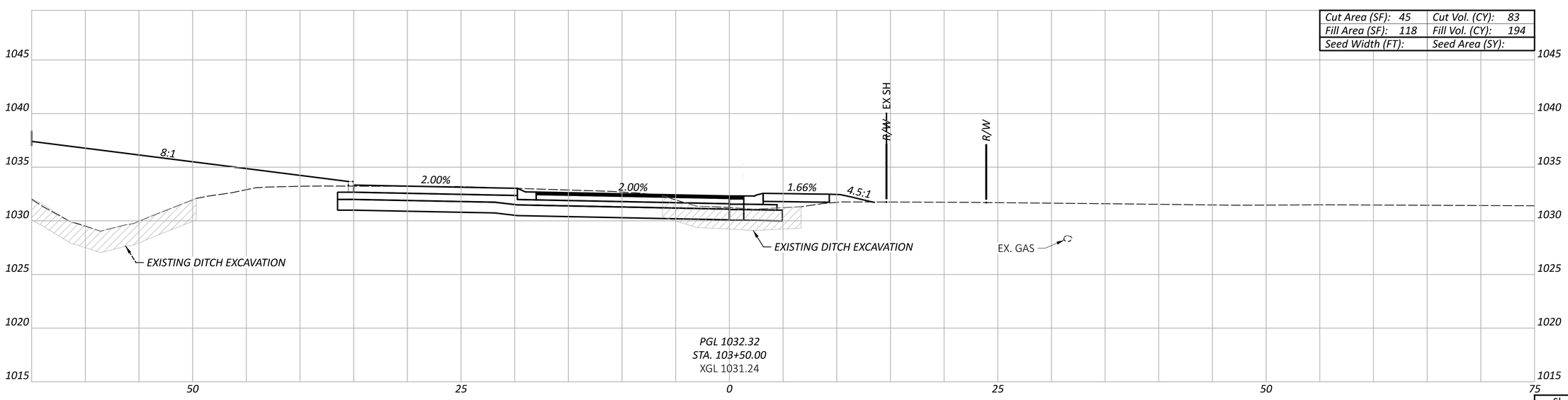
FAI-204-04.30

MODEL: BLP_CC - 102+55.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:23:14 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Fairfield\113650\401-Engineering_OHMAdvisors\Roadway\Sheets\113650_XS003.dgn

EARTHWORK CALCULATIONS			
	CUT (CY)	FILL (CY)	SEEDING
CROSS SECTION SHEET TOTALS	4670	2028	*
PAVEMENT REMOVED ADJUSTMENT	-1905	-	-
BIORETENTION CELL EXCAVATION ADJUSTMENT	-208	-	-
TOTALS CARRIED TO GENERAL SUMMARY	**2557**	**2028**	*

*SEEDING AND MULCHING QUANTITIES ARE CALCULATED FROM A CADD GENERATED AREA AND PROVIDED IN THE GENERAL NOTES ON SHEET 13.





Sheet Totals		
Seeding	Cut	Fill
	126	484

CROSS SECTIONS - ROUNDABOUT
STA. 103+50.00 TO STA. 103+95.00

DESIGN AGENCY
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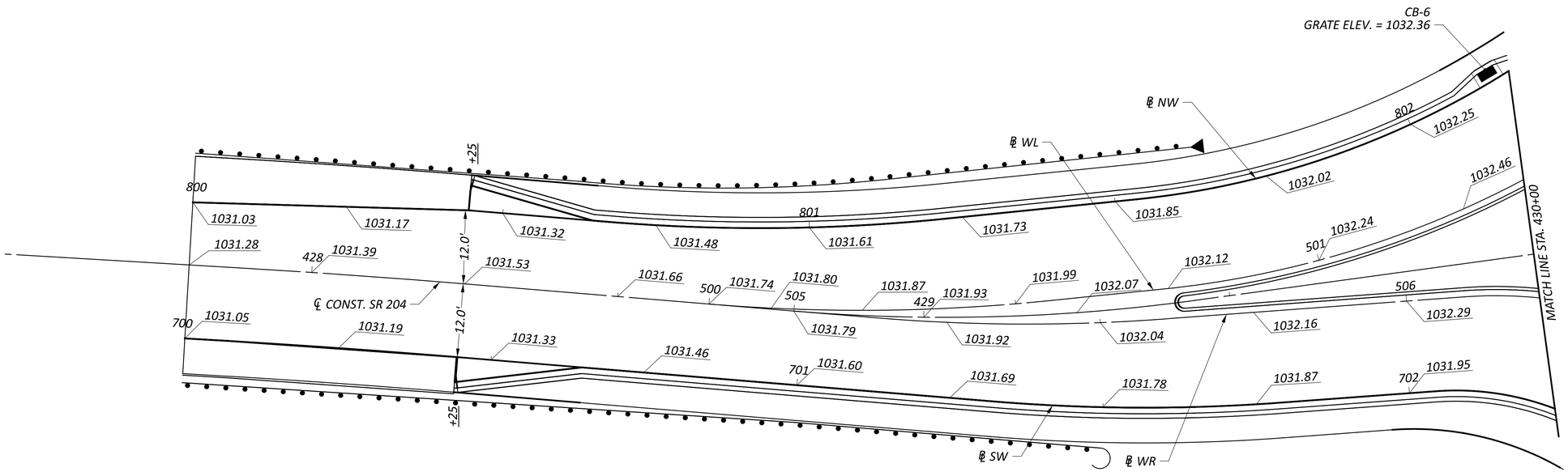
PROJECT ID
113650

SHEET P.52 TOTAL 101

FAI-204-04.30

MODEL: BLP_CC - 103+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:23:29 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Fairfield\113650\401-Engineering_OHMAdvisors\Roadway\Sheets\113650_XS003.dgn



NOTE:
PREFORMED JOINT MATERIAL, ITEM 705.03 SHALL BE USED FOR SPLITTER ISLANDS AND TRUCK APRONS.

HORIZONTAL SCALE IN FEET
0 5 10 20

INTERSECTION DETAILS - WEST LEG
SR 204 STA. 427+80 TO STA. 430+00

DESIGN AGENCY
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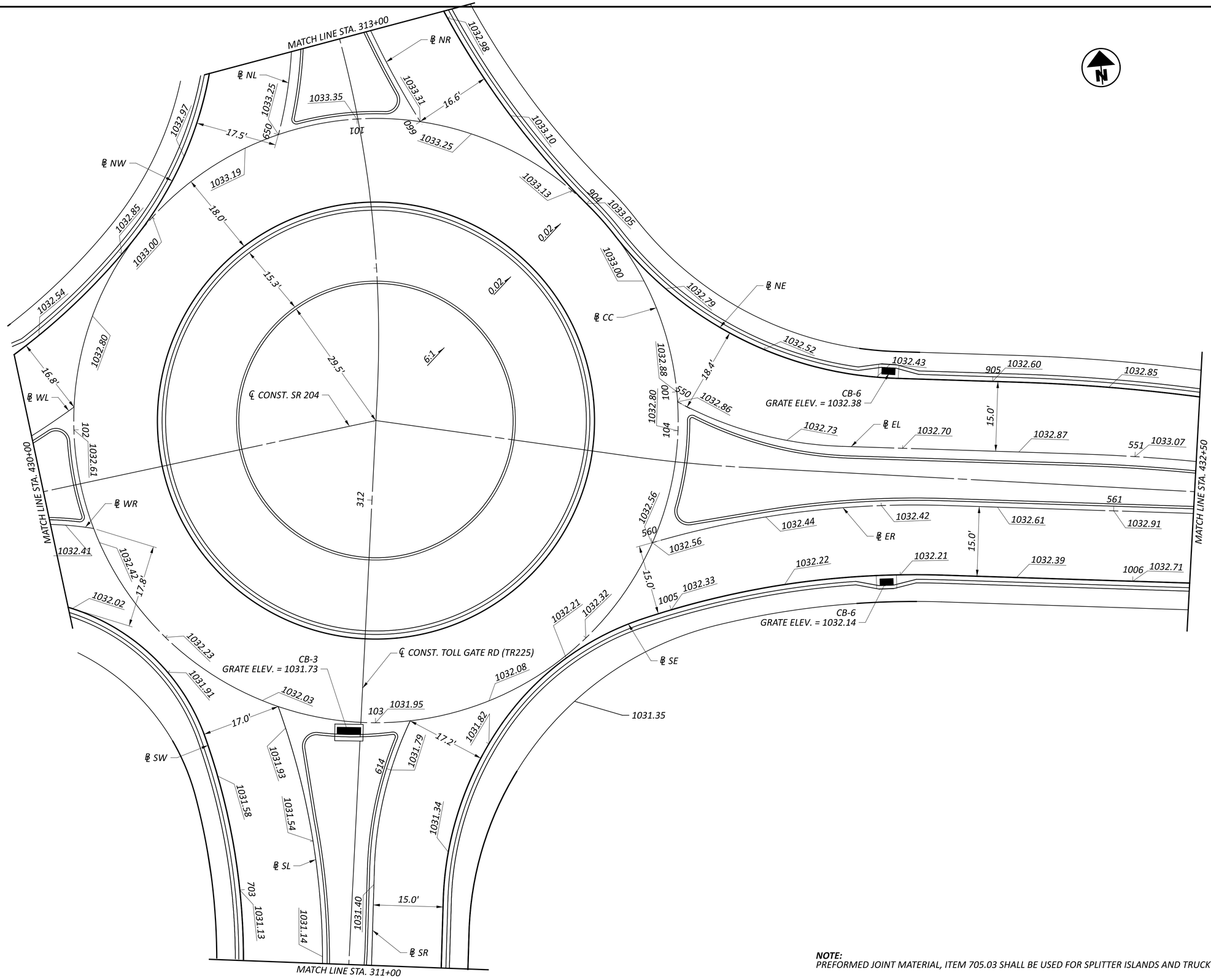
PROJECT ID
113650

SHEET P.53 TOTAL 101

FAI-204-04.30



NOTE:
PREFORMED JOINT MATERIAL, ITEM 705.03 SHALL BE USED FOR SPLITTER ISLANDS AND TRUCK APRONS.

HORIZONTAL SCALE IN FEET
0 5 10 20

INTERSECTION DETAILS - ROUNDABOUT
SR 204 & TOLL GATE ROAD (TR 225)

DESIGN AGENCY
OHM

DESIGNER
BLC

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.54 TOTAL 101

FAI-204-04.30

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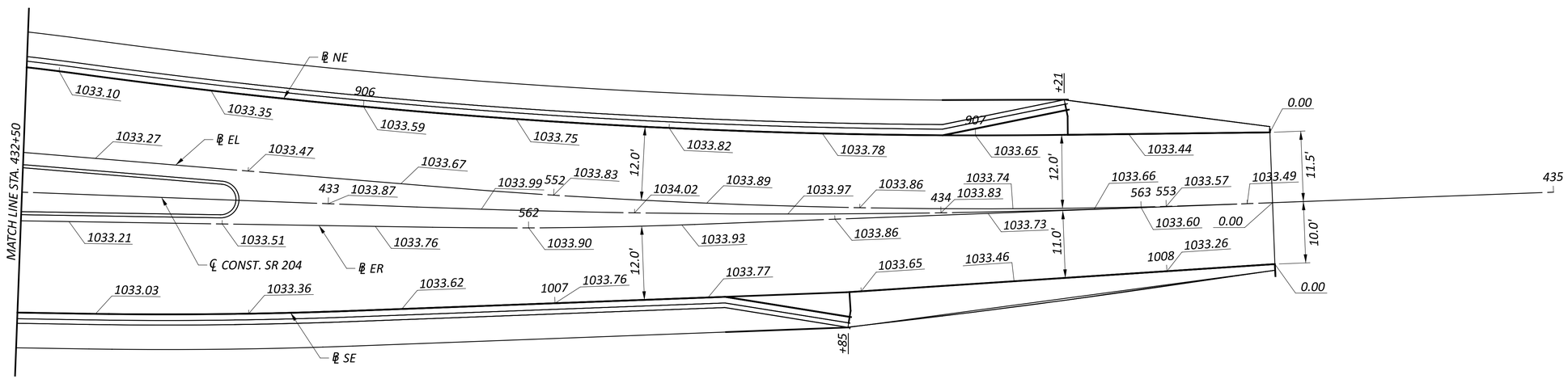

NOTE:
PREFORMED JOINT MATERIAL, ITEM 705.03 SHALL BE USED FOR SPLITTER ISLANDS AND TRUCK APRONS.

HORIZONTAL SCALE IN FEET
0 5 10 20

INTERSECTION DETAILS - EAST LEG
SR 204 STA. 432+50 TO STA. 434+55

DESIGN AGENCY
OHM

DESIGNER	BLC
REVIEWER	SEO 08/15/25
PROJECT ID	113650
SHEET	P.55
TOTAL	101

FAI-204-04.30

MODEL: CLP_204 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:24:16 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
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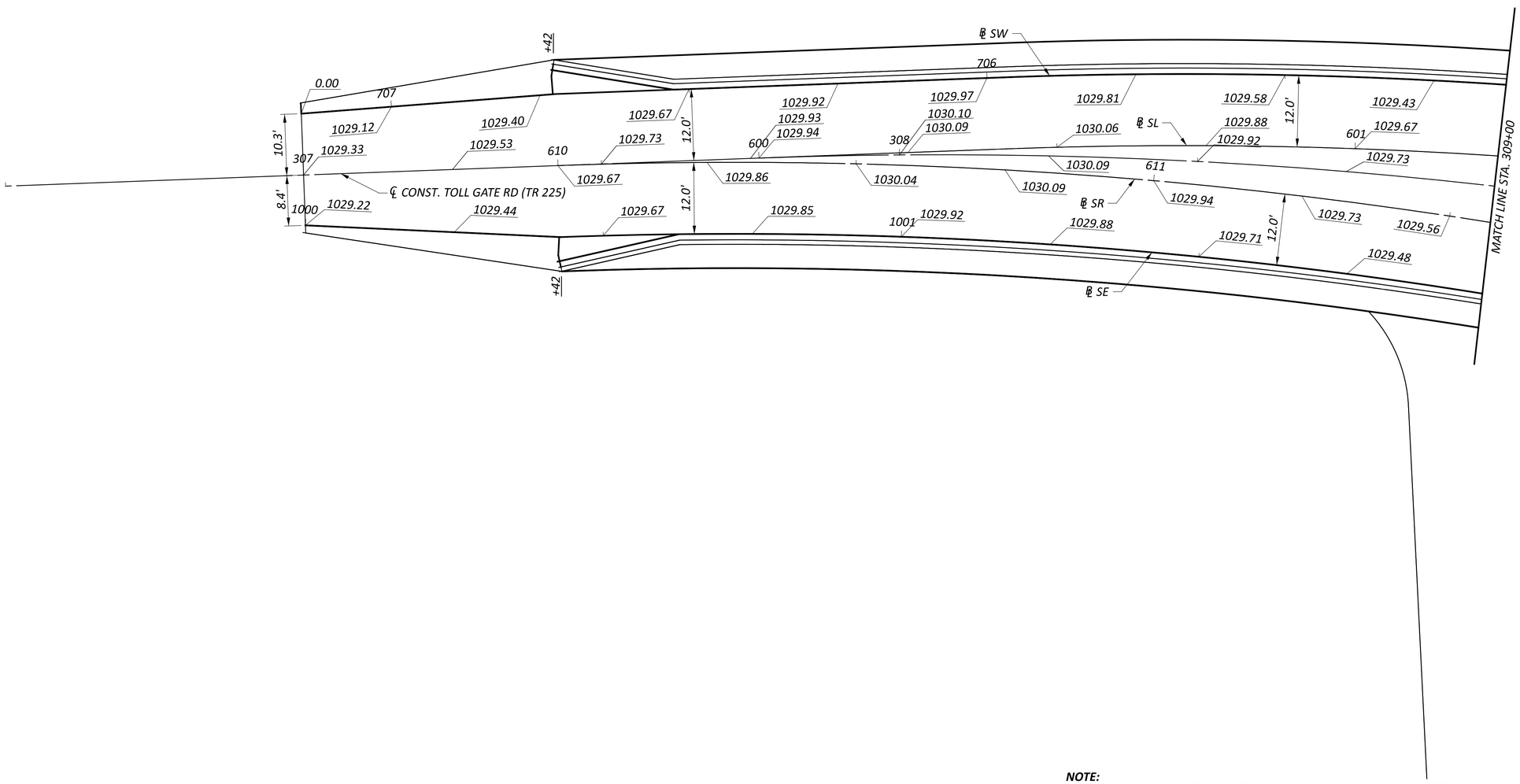


NOTE:
PREFORMED JOINT MATERIAL, ITEM 705.03 SHALL BE USED FOR SPLITTER ISLANDS AND TRUCK APRONS.

HORIZONTAL SCALE IN FEET
0 5 10 20

INTERSECTION DETAILS - SOUTH LEG
TOLL GATE ROAD (TR 225) STA. 307+00 TO STA. 309+00

DESIGN AGENCY
OHM

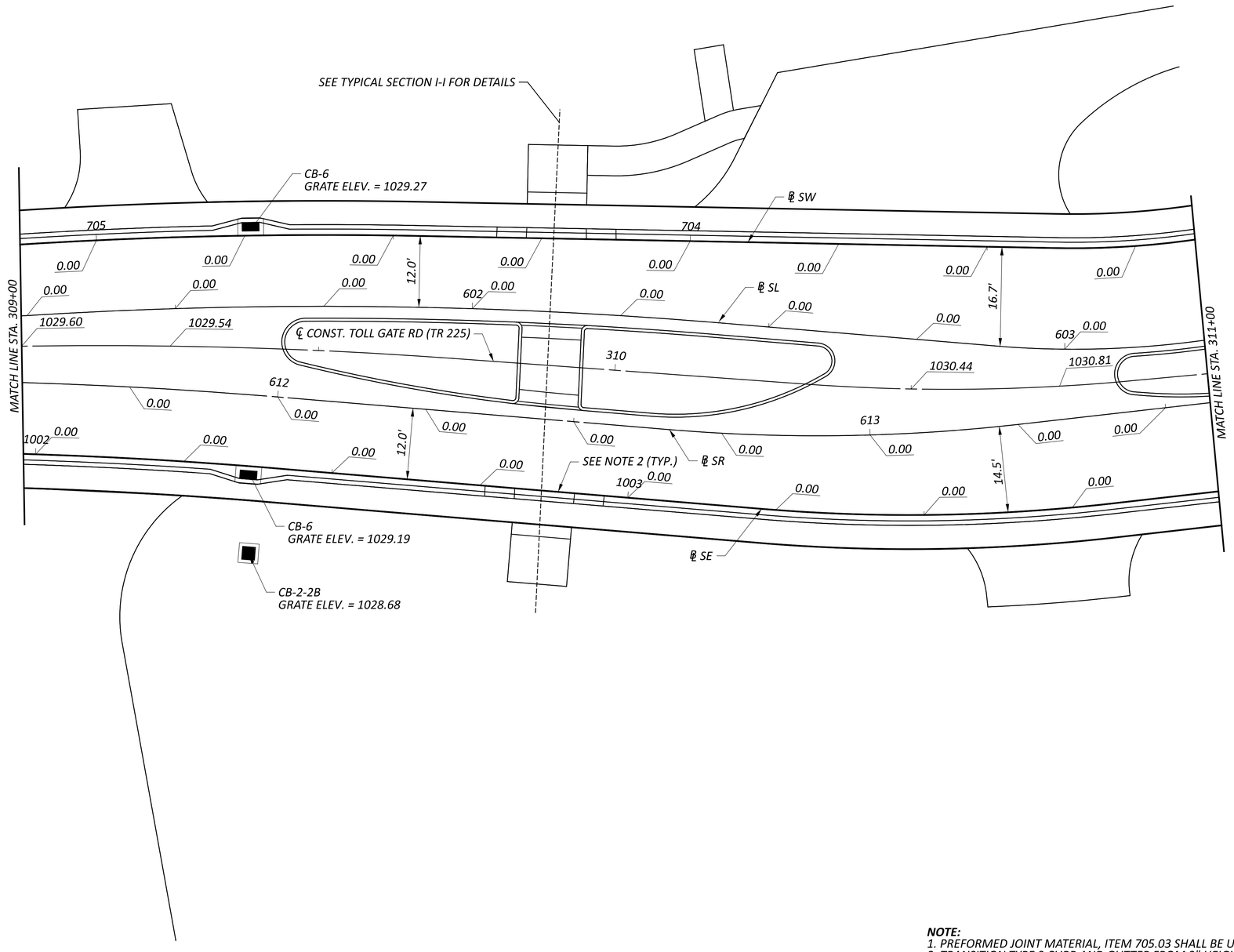
DESIGNER
BLC

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.56 TOTAL 101

FAI-204-04.30



NOTE:
1. PREFORMED JOINT MATERIAL, ITEM 705.03 SHALL BE USED FOR SPLITTER ISLANDS AND TRUCK APRONS.
2. TRANSITION TYPE 9 CURB AND GUTTER FROM 3" HEIGHT TO FLUSH OVER 5' FOR CURB RAMP.

HORIZONTAL SCALE IN FEET
0 5 10 20

INTERSECTION DETAILS - SOUTH LEG
TOLL GATE ROAD (TR 225) STA. 309+00 TO STA. 311+00

DESIGN AGENCY
OHM

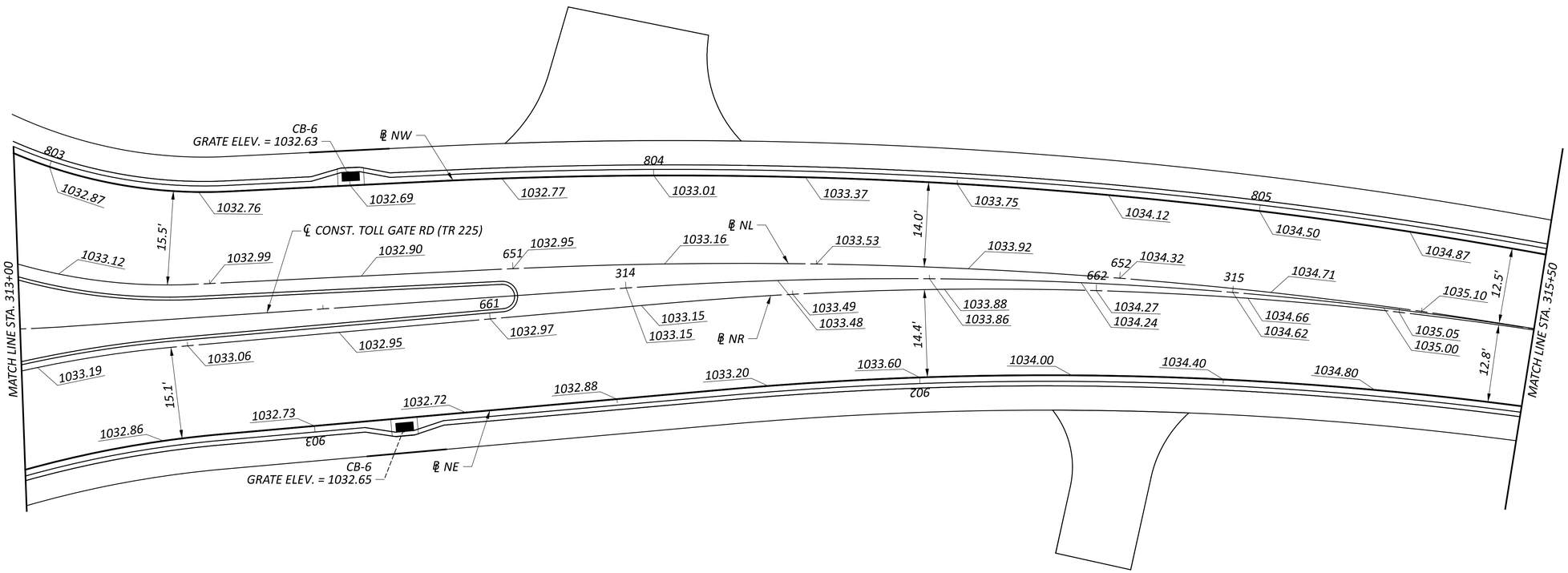
DESIGNER
BLC

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.57 TOTAL 101

FAI-204-04.30



NOTE:
PREFORMED JOINT MATERIAL, ITEM 705.03 SHALL BE USED FOR SPLITTER ISLANDS AND TRUCK APRONS.

HORIZONTAL SCALE IN FEET
0 5 10 20

INTERSECTION DETAILS - NORTH LEG
TOLL GATE ROAD (TR 225) STA. 313+00 TO STA. 315+50

DESIGN AGENCY
OHM

DESIGNER
BLC

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.58 TOTAL 101

FAI-204-04.30

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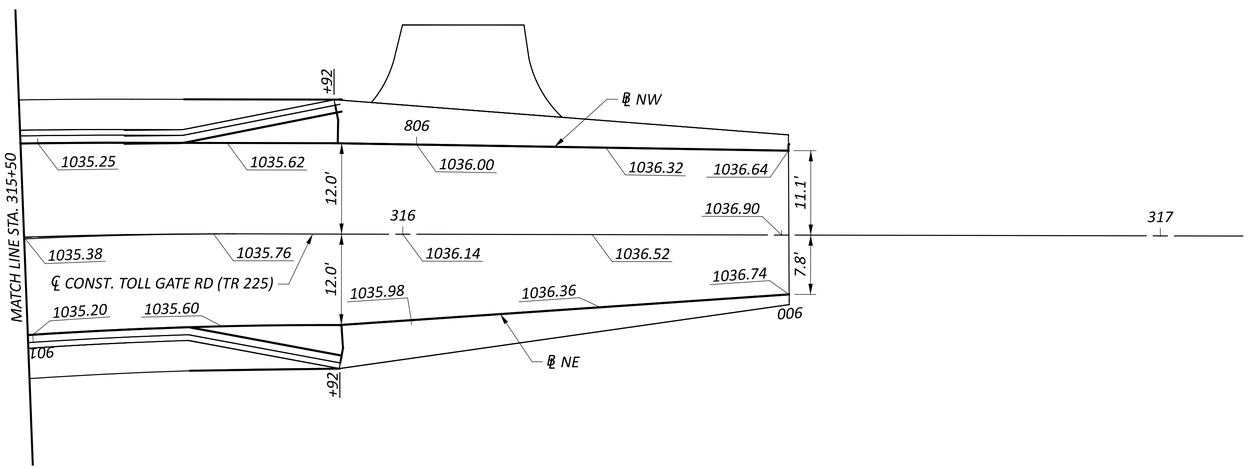

NOTE:
PREFORMED JOINT MATERIAL, ITEM 705.03 SHALL BE USED FOR SPLITTER ISLANDS AND TRUCK APRONS.

HORIZONTAL SCALE IN FEET
0 5 10 20

INTERSECTION DETAILS - NORTH LEG
TOLL GATE ROAD (TR 225) STA. 315+50 TO STA. 316+55

DESIGN AGENCY
OHM

DESIGNER
BLC

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.59 TOTAL 101

FAI-204-04.30

MODEL: CLP_TollGate - Plan 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:24:41 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
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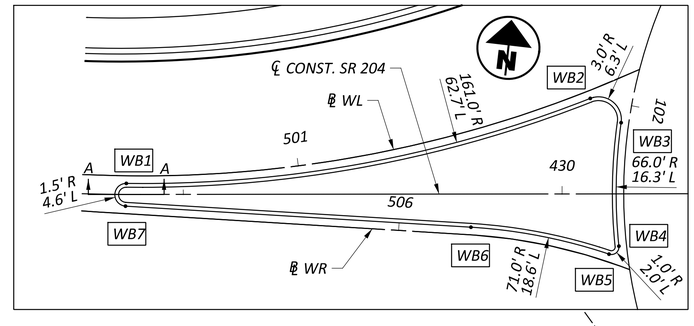
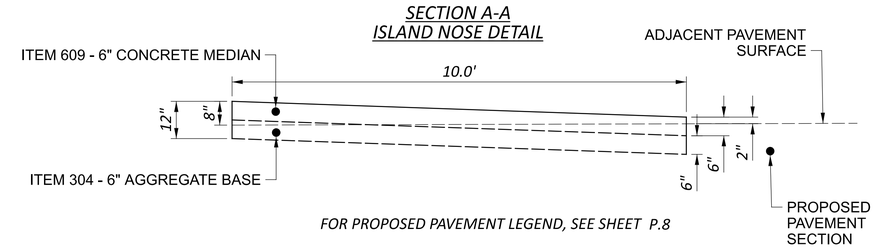
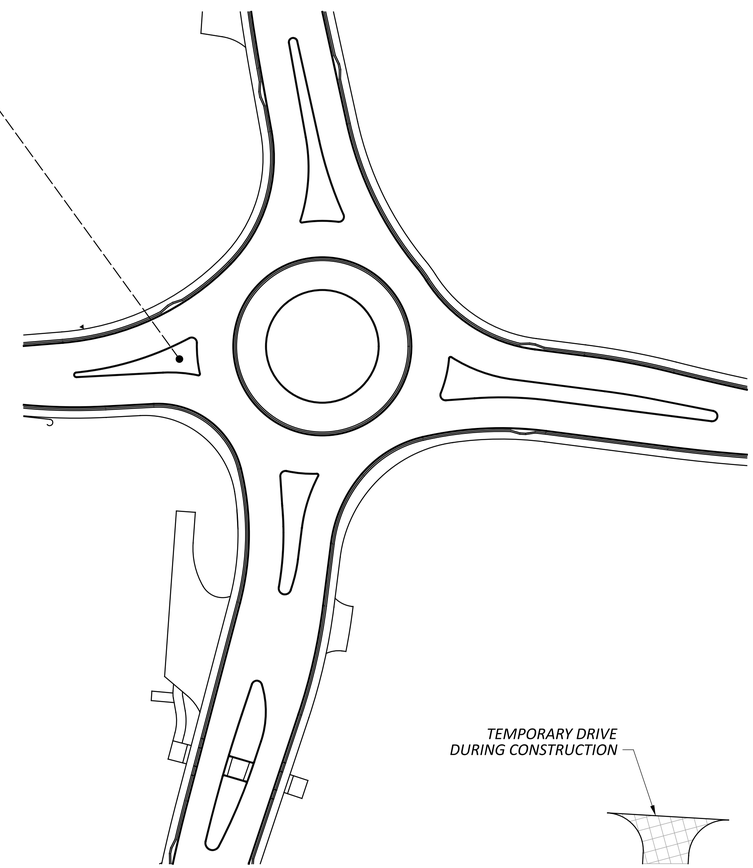




HORIZONTAL SCALE IN FEET
0 5 10 20

SPLITTER ISLAND DETAIL TABLE						
CONTROL POINT	STATION	OFFSET (FT)	BASELINE CONSTRUCTION	ELEV. (FT)	NORTHING	EASTING
WB1	500+77.26	1.00	REF WL	1032.15	393051.040	147897.668
WB2	501+39.52	1.00	REF WL	1032.6	393069.148	147957.240
WB3	102+02.41	1.00	REF CC	1032.57	393066.418	147961.650
WB4	102+18.49	1.00	REF CC	1032.45	393050.204	147963.213
WB5	506+27.86	-1.00	REF WR	1032.45	393049.008	147962.029
WB6	506+09.50	-1.00	REF WR	1032.35	393050.461	147943.518
WB7	505+63.81	-0.99	REF WR	1032.12	393048.050	147897.897



NOTE:
PREFORMED JOINT MATERIAL, ITEM 705.03 SHALL BE USED FOR SPLITTER ISLANDS AND TRUCK APRONS.

SPLITTER ISLAND DETAILS
WEST LEG

DESIGN AGENCY
OHM

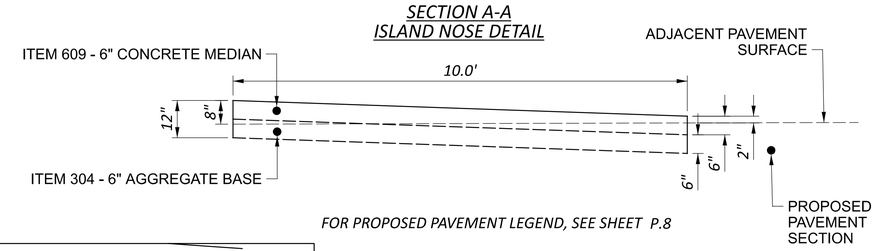
DESIGNER
BLC

REVIEWER
SEO 08/15/25

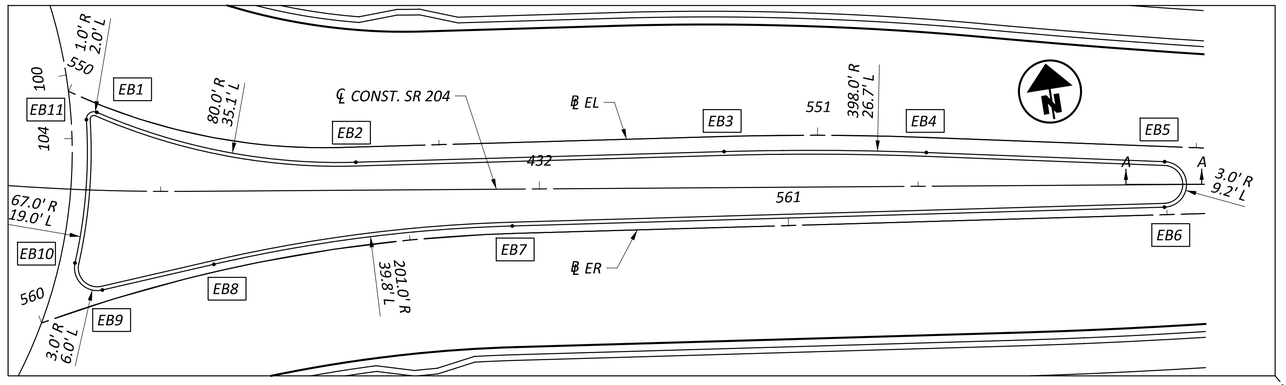
PROJECT ID
113650

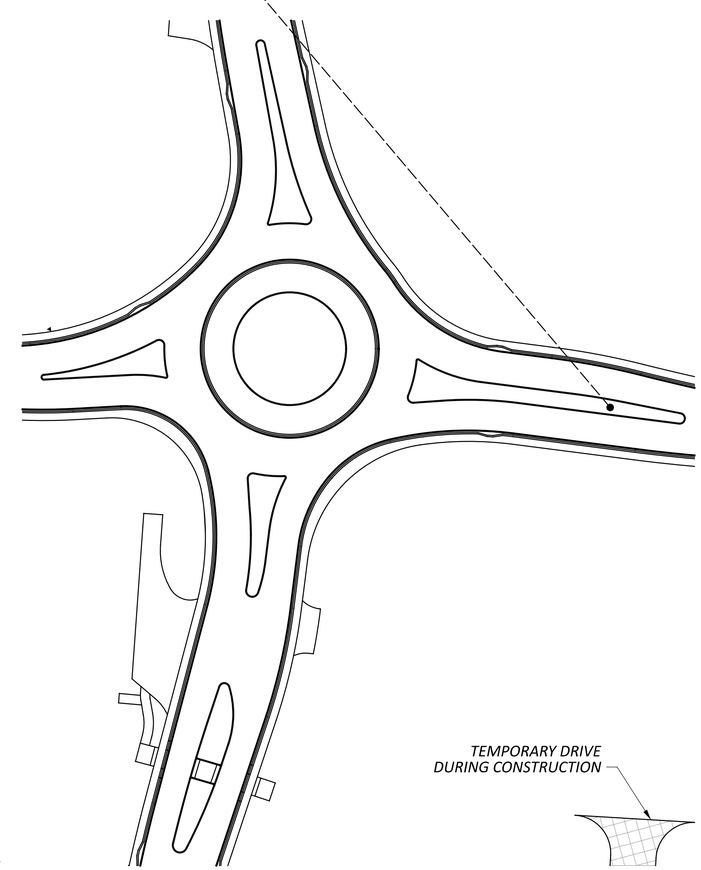
SHEET P.60 TOTAL 101

FAI-204-04.30



FOR PROPOSED PAVEMENT LEGEND, SEE SHEET P.8





SPLITTER ISLAND DETAIL TABLE						
CONTROL POINT	STATION	OFFSET (FT)	BASELINE CONSTRUCTION	ELEV. (FT)	NORTHING	EASTING
EB1	550+04.51	1.05	REF EL	1032.85	393059.116	148095.866
EB2	550+38.96	2.00	REF EL	1032.72	393047.283	148128.606
EB3	550+87.59	2.00	REF EL	1033.01	393041.101	148176.833
EB4	551+14.42	2.00	REF EL	1033.22	393036.821	148203.185
EB5	551+45.92	2.00	REF EL	1033.47	393030.731	148234.083
EB6	561+49.68	-1.00	REF ER	1033.52	393024.812	148233.122
EB7	560+63.56	-1.00	REF ER	1032.50	393035.763	148147.693
EB8	560+23.97	-1.00	REF ER	1032.46	393036.896	148107.994
EB9	560+08.97	-1.57	REF ER	1032.54	393035.832	148092.919
EB10	103+83.90	2.00	REF CC	1032.60	393039.929	148089.919
EB11	104+02.35	2.00	REF CC	1032.78	393058.365	148094.334

NOTE:
PREFORMED JOINT MATERIAL, ITEM 705.03 SHALL BE USED FOR SPLITTER ISLANDS AND TRUCK APRONS.

HORIZONTAL SCALE IN FEET
0 5 10 20

SPLITTER ISLAND DETAILS
EAST LEG

DESIGN AGENCY
OHM

DESIGNER
BLC

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.61 TOTAL 101

FAI-204-04.30

MODEL: CLP_204 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:25:05 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
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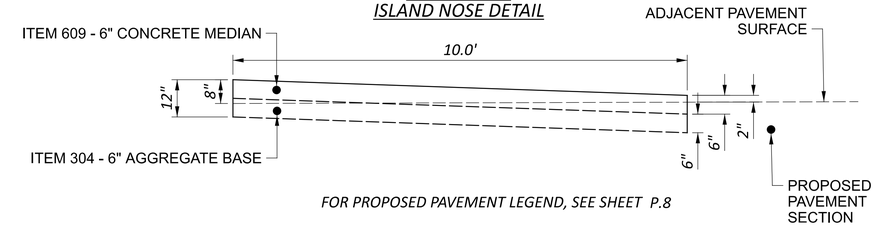
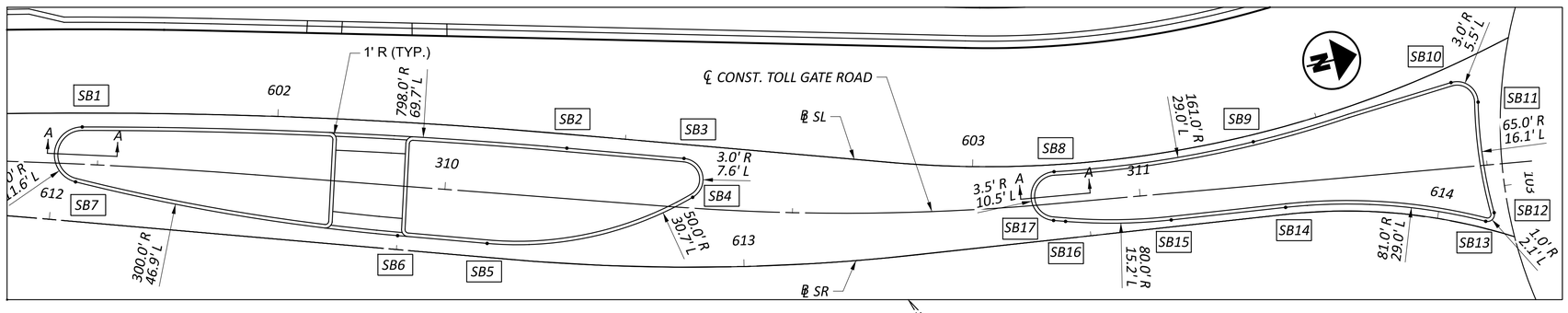
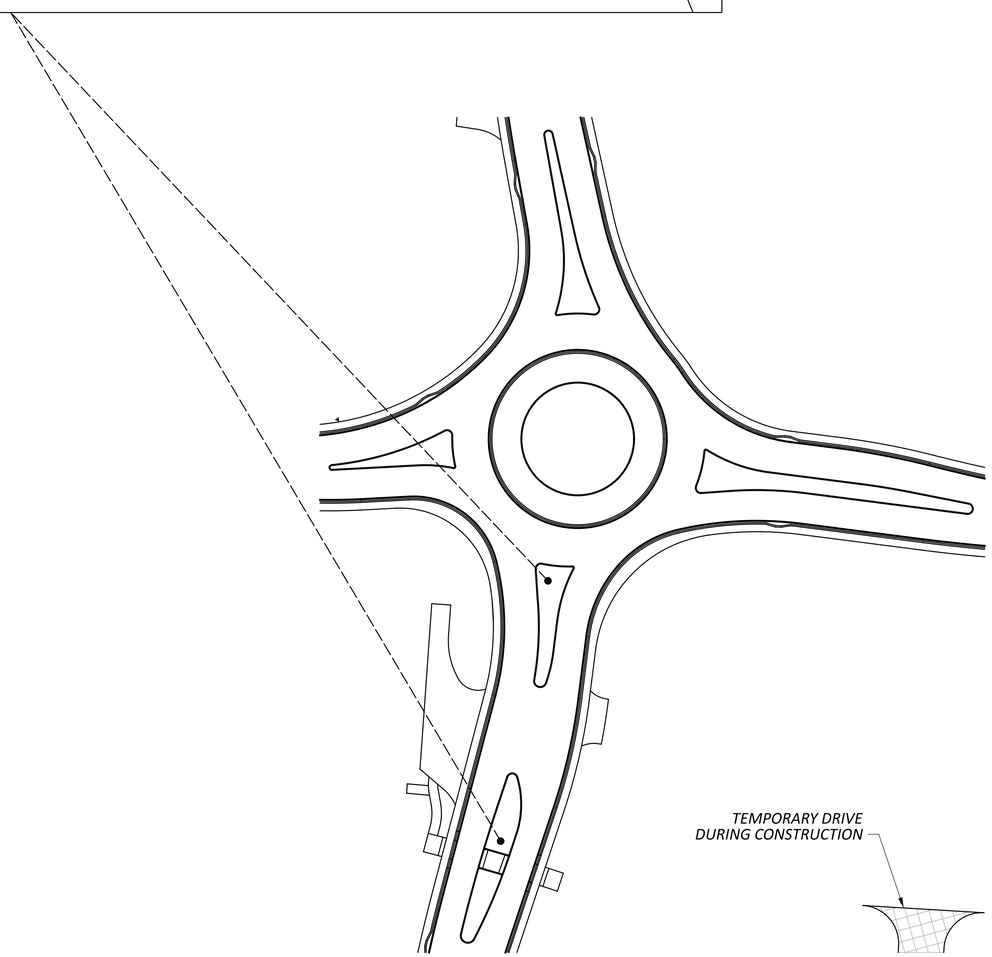
SECTION A-A
ISLAND NOSE DETAIL



FOR PROPOSED PAVEMENT LEGEND, SEE SHEET P.8





SPLITTER ISLAND DETAIL TABLE						
CONTROL POINT	STATION	OFFSET (FT)	BASELINE CONSTRUCTION	ELEV. (FT)	NORTHING	EASTING
SB1	601+71.90	2.00	REF SL	1029.50	392803.289	147965.749
SB2	602+41.74	2.00	REF SL	1029.90	392870.253	147984.862
SB3	602+58.61	2.00	REF SL	1030.09	392886.261	147990.197
SB4	612+92.65	-10.02	REF SR	1030.28	392886.179	147995.915
SB5	612+62.90	-2.00	REF SR	1029.82	392855.937	147995.492
SB6	612+50.01	-2.00	REF SR	1029.71	392843.705	147991.422
SB7	612+03.28	-5.66	REF SR	1029.54	392800.521	147973.192
SB8	603+11.62	1.00	REF SL	1030.87	392937.477	148004.394
SB9	603+40.40	1.00	REF SL	1031.41	392966.293	148006.859
SB10	603+69.76	2.19	REF SL	1031.87	392995.875	148005.189
SB11	102+88.16	3.24	REF CC	1031.90	392998.998	148008.817
SB12	103+03.55	2.14	REF CC	1031.91	392997.567	148024.779
SB13	614+06.83	-1.00	REF SR	1031.91	392996.104	148025.699
SB14	613+78.23	-1.00	REF SR	1031.46	392968.627	148017.082
SB15	613+61.71	-1.00	REF SR	1031.20	392952.236	148015.019
SB16	613+46.62	-2.44	REF SR	1030.98	392937.435	148011.707
SB17	613+44.91	-2.77	REF SR	1030.96	392935.782	148011.168

NOTE:
PREFORMED JOINT MATERIAL, ITEM 705.03 SHALL BE USED FOR SPLITTER ISLANDS AND TRUCK APRONS.

HORIZONTAL SCALE IN FEET
0 5 10 20

SPLITTER ISLAND DETAILS
SOUTH LEG

DESIGN AGENCY
OHM

DESIGNER
BLC

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.62 TOTAL 101

FAI-204-04.30

MODEL: CLP_TollGate - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:25:07 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
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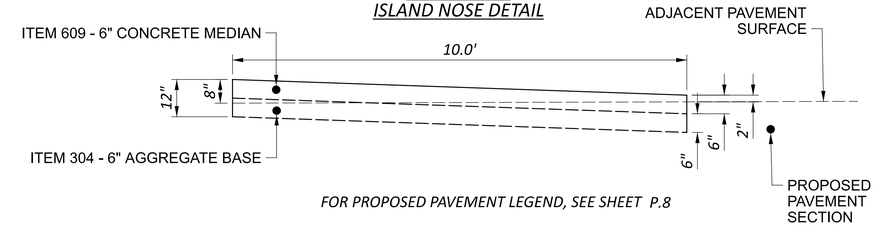
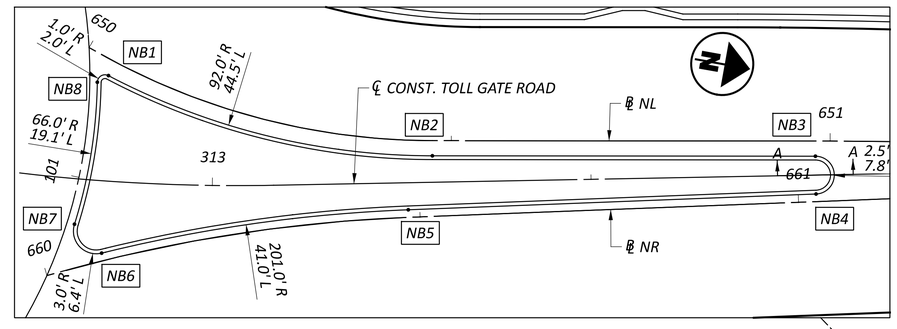
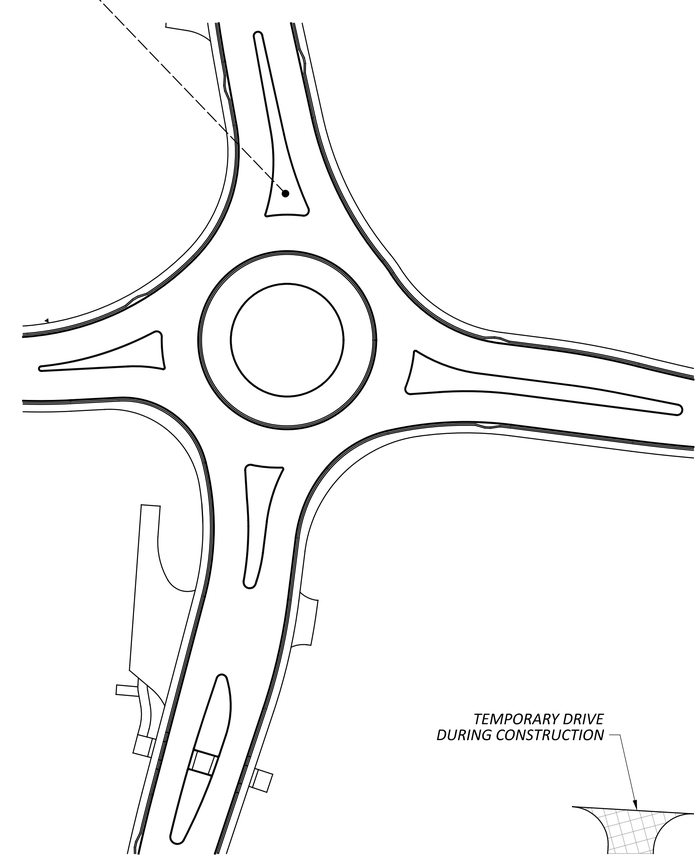
SECTION A-A
ISLAND NOSE DETAIL



FOR PROPOSED PAVEMENT LEGEND, SEE SHEET P.8



SPLITTER ISLAND DETAIL TABLE						
CONTROL POINT	STATION	OFFSET (FT)	BASELINE CONSTRUCTION	ELEV. (FT)	NORTHING	EASTING
NB1	650+03.99	2.00	REF NL	1033.26	393131.013	148015.821
NB2	650+47.50	2.00	REF NL	1033.04	393174.968	148018.658
NB3	650+98.06	2.00	REF NL	1032.97	393224.736	148009.742
NB4	661+02.35	-1.00	REF NR	1032.99	393225.715	148014.644
NB5	660+48.47	-1.00	REF NR	1033.08	393173.099	148026.231
NB6	660+07.72	-1.00	REF NR	1033.29	393134.274	148039.038
NB7	100+93.91	1.00	REF CC	1033.32	393130.073	148035.922
NB8	101+12.67	1.00	REF CC	1033.26	393129.725	148016.936



NOTE:
PREFORMED JOINT MATERIAL, ITEM 705.03 SHALL BE USED FOR SPLITTER ISLANDS AND TRUCK APRONS.

HORIZONTAL SCALE IN FEET
0 5 10 20

SPLITTER ISLAND DETAILS
NORTH LEG

DESIGN AGENCY
OHM

DESIGNER
BLC

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.63 TOTAL 101

FAI-204-04.30

MODEL: CLP_TollGate - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:25:09 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
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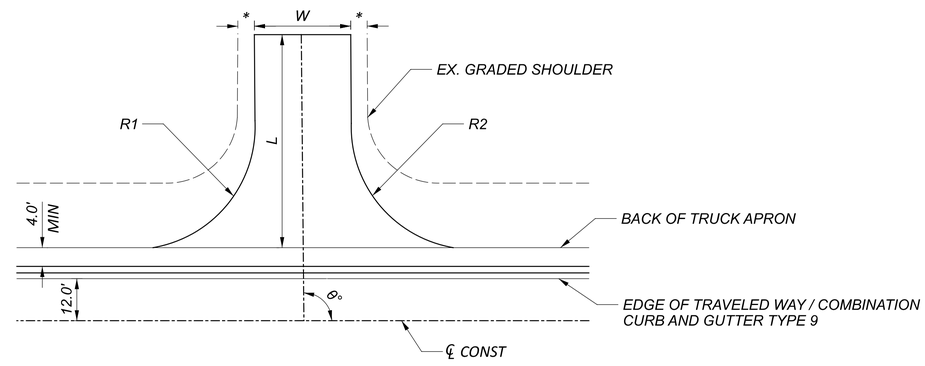
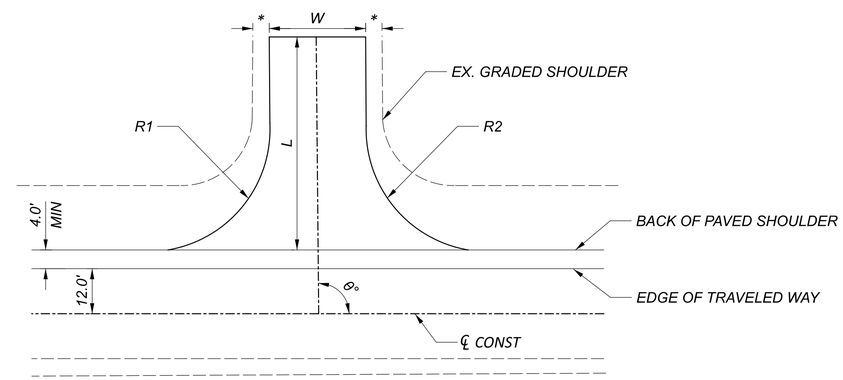


TYPE 1 DRIVE (BEHIND TYPE 9 CURB AND CONCRETE TRUCK APRON)

* MATCH EXISTING



TYPE 2 DRIVE (BEHIND ASPHALT SHOULDER)

* MATCH EXISTING

COMMERCIAL DRIVE BUILD-UP

ASPHALT DRIVES

ITEM 441 - 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)

ITEM 407 - NON-TRACKING TACK COAT

ITEM 441 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449), (DRIVEWAYS)

ITEM 304 - 8" AGGREGATE BASE

CONCRETE DRIVES

ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P

RESIDENTIAL DRIVE BUILD-UP

ASPHALT DRIVES

ITEM 441 - 2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)

ITEM 304 - 6" AGGREGATE BASE

CONCRETE DRIVES

ITEM 452 - 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P

DRIVEWAY DETAILS

DESIGN AGENCY

OHM

DESIGNER AHH

REVIEWER SEO 08/15/25

PROJECT ID 113650

SHEET P.64 TOTAL 101

FAI-204-04.30

DRIVEWAY SUBSUMMARY

SHEET NO.	REFRENCE NO.	STATION	SIDE	DRIVE TYPE	PAVEMENT TYPE	MAILBOX APPROACH (I=INTEGRATED, S=SEPARATED)	DRIVE ANGLE	APRON LENGTH "L"	WIDTH "W"	R1 (LEFT SIDE RADII OF DRIVE LOOKING FROM CL)	R2 (RIGHT SIDE RADII OF DRIVE LOOKING FROM CL)	CADD GENERATED SURFACE AREA	202 PAVEMENT REMOVED	203 EXCAVATION	304 AGGREGATE BASE	407 NON-TRACKING TACK COAT	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449), (DRIVEWAYS)	452 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	452 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P
							DEG.	FT.	FT.	FT	FT.	SQ. FT.	SY	CY	CY	GAL	CY	CY	SY	SY
28, 65	DR-01	308+96	RT	COMMERCIAL	ASPH	NO	82.00	28.70	24.00	25	25	10398.1		289	257	69	40	56		
28, 66	DR-02	309+20	LT	RESIDENTIAL	CONC	NO	86.00	16.50	15.80	15	15	306	32						34	
26, 66	DR-03	310+55	LT	COMMERCIAL	ASPH	NO	89.00	28.00	87.60	25	12	1919.1			47	13	7	10		
26, 67	DR-04	310+73	RT	COMMERCIAL	CONC	NO	90.00	10.00	24.00	15	15	255.4								28
29, 67	DR-05	313+95	LT	RESIDENTIAL	CONC	NO	77.00	19.80	23.50	25	20	561.6	20						62	
29, 68	DR-06	314+87	RT	RESIDENTIAL	ASPH	NO	81.00	25.40	12.70	20	15	357	63		7		2			
29, 68	DR-07	316+08	LT	RESIDENTIAL	CONC	NO	90.00	11.20	16.00	15	15	214.3	28						24	
TOTALS CARRIED TO GENERAL SUMMARY													143	289	311	82	49	66	120	28

DESIGN AGENCY

OHM

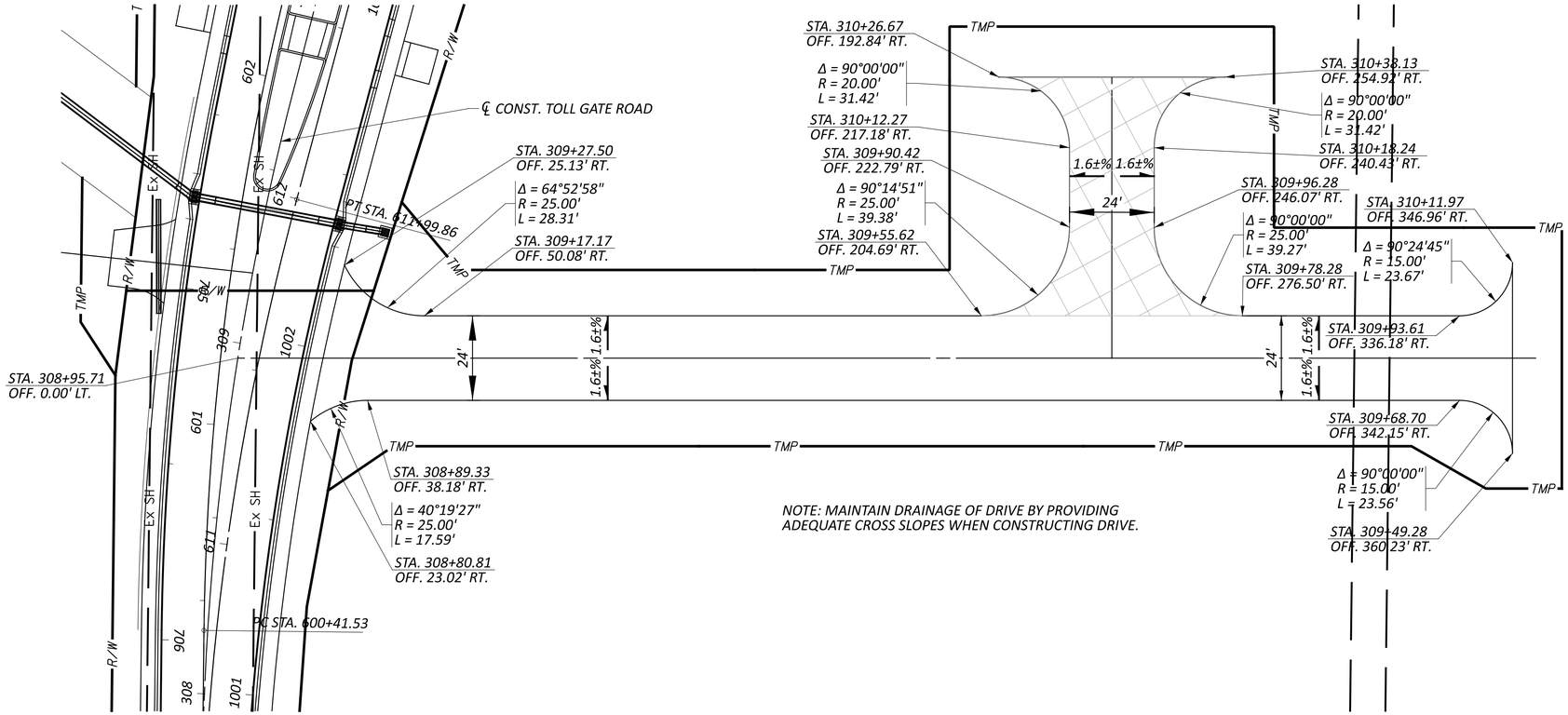
DESIGNER
AHH

REVIEWER
SEO 08/15/25

PROJECT ID
113650

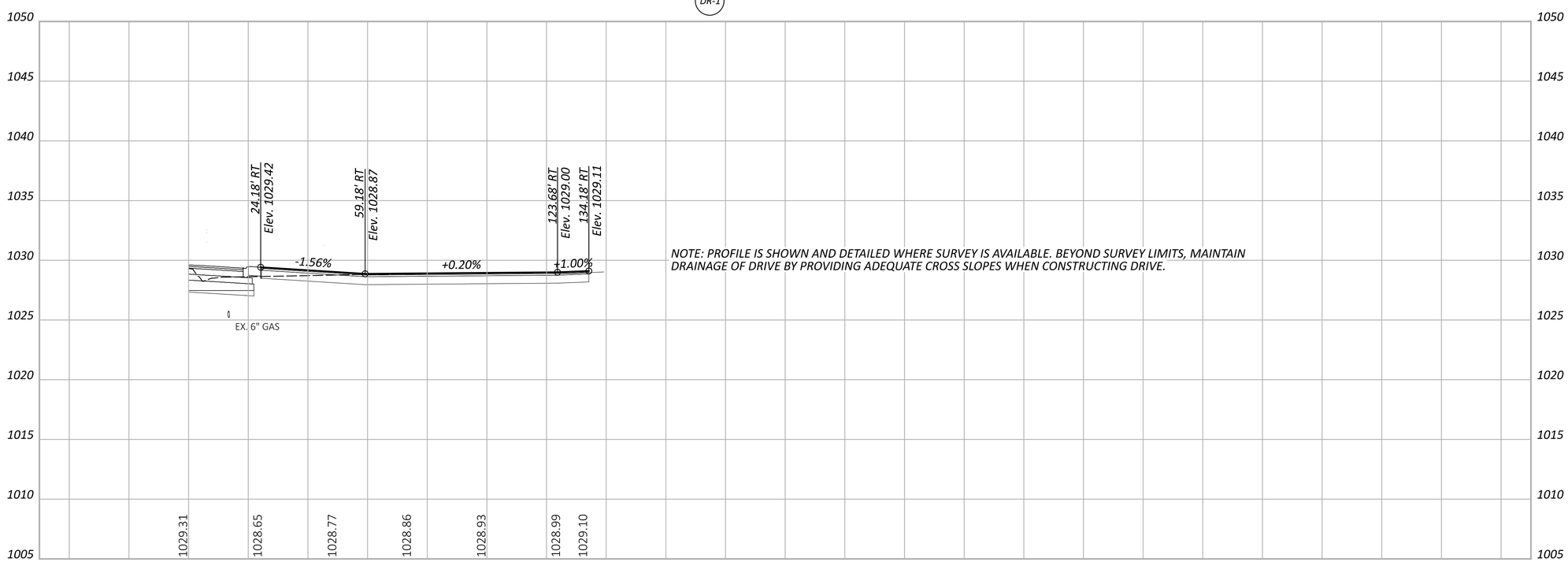
SHEET P.65 TOTAL 101

FIA-204-04.30



DRIVEWAY STA. 308+95.71 RT

DR-1



DRIVEWAY PROFILES
TOLL GATE RD (TR225)

DESIGN AGENCY

OHM

DESIGNER
HAC

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.66 TOTAL 101

FAI-204-04.30

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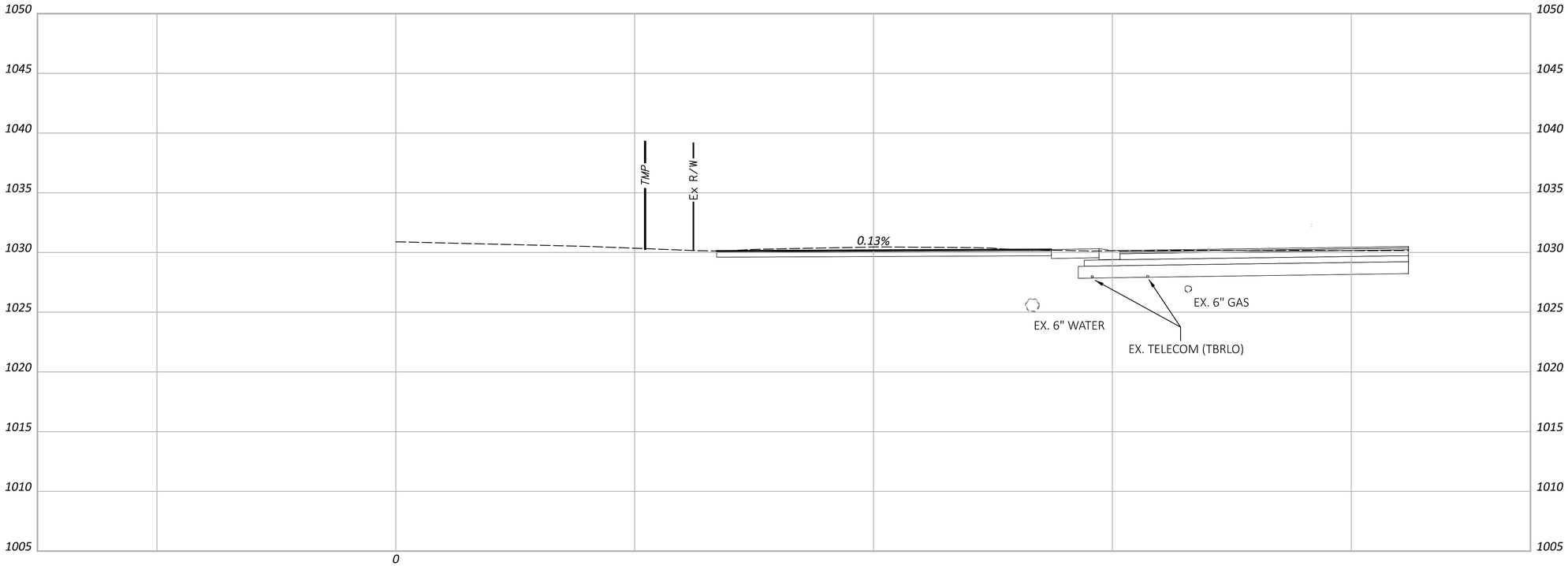
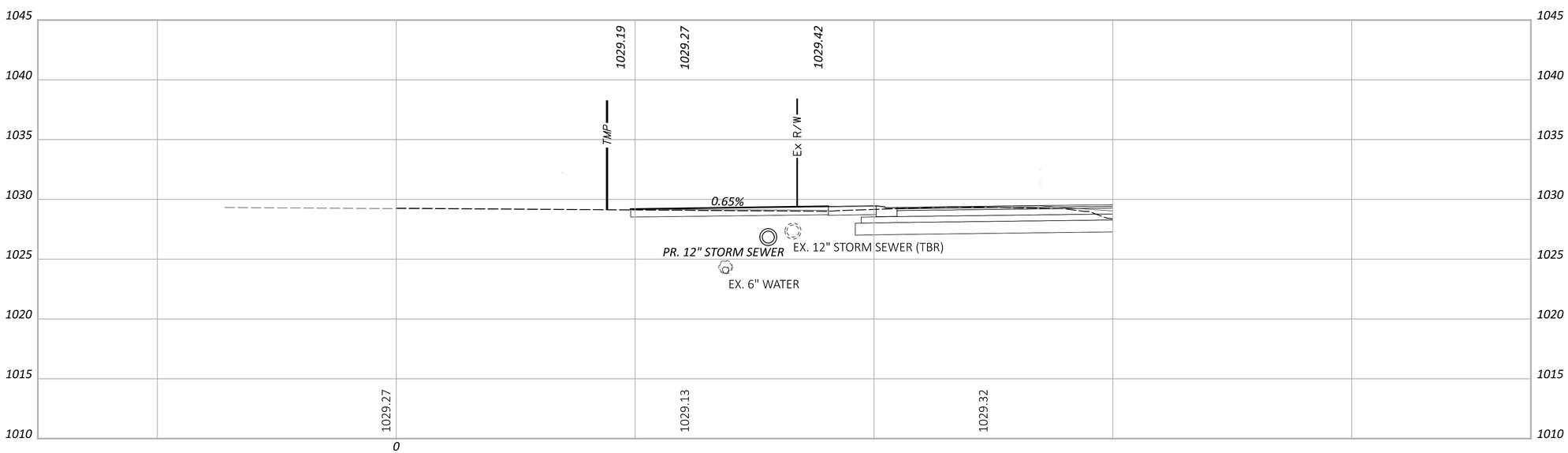


DRIVEWAY STA. 310+54.58 LT

DR-3



DRIVEWAY STA. 309+20.20 LT

DR-2

DRIVEWAY PROFILES
TOLL GATE ROAD (TR 225)

DESIGN AGENCY

OHM

DESIGNER
AHH

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.67 TOTAL 101

FAI-204-04.30

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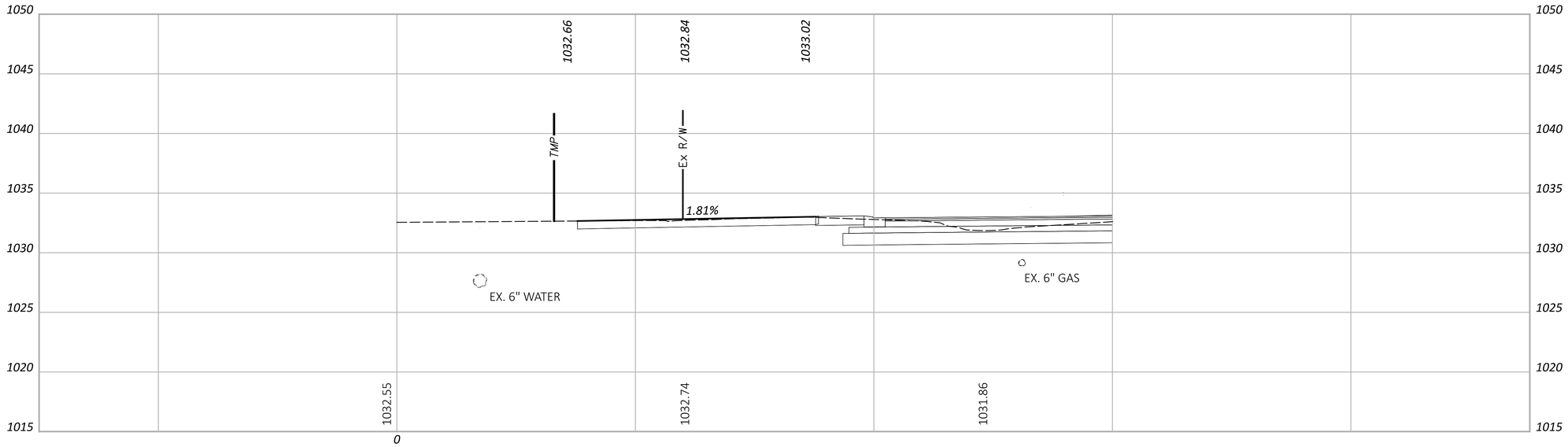
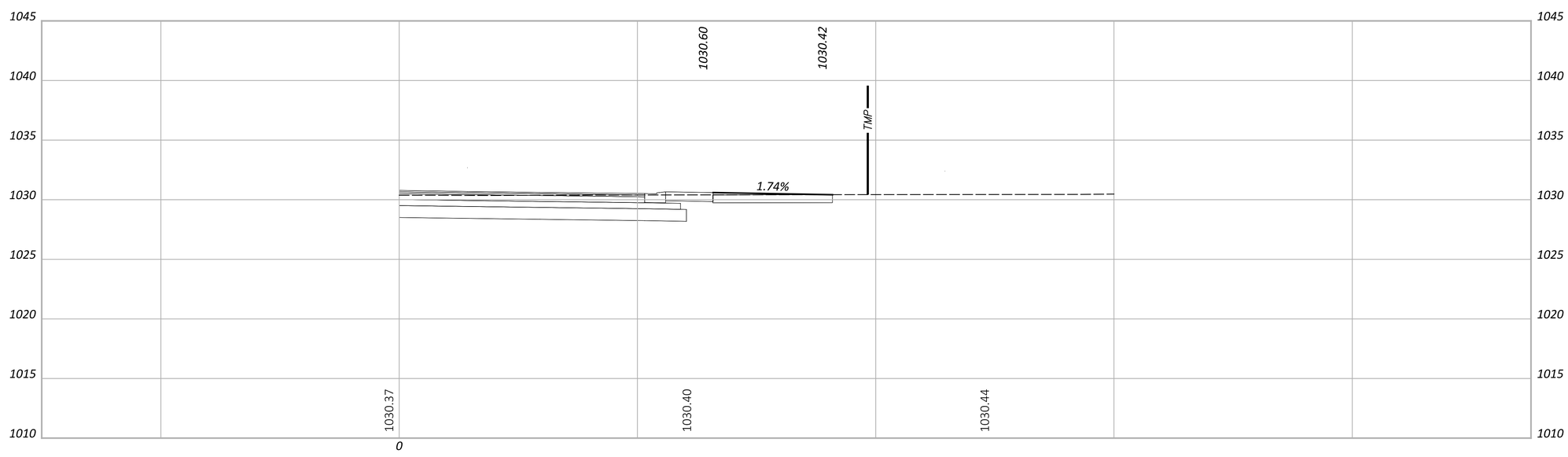


DRIVEWAY STA. 313+95.02 LT

DR-5



DRIVEWAY STA. 310+73.06 RT

DR-4

DRIVEWAY PROFILES
TOLL GATE ROAD (TR 225)

DESIGN AGENCY

OHM

DESIGNER
AHH

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.68 TOTAL 101

FAI-204-04.30

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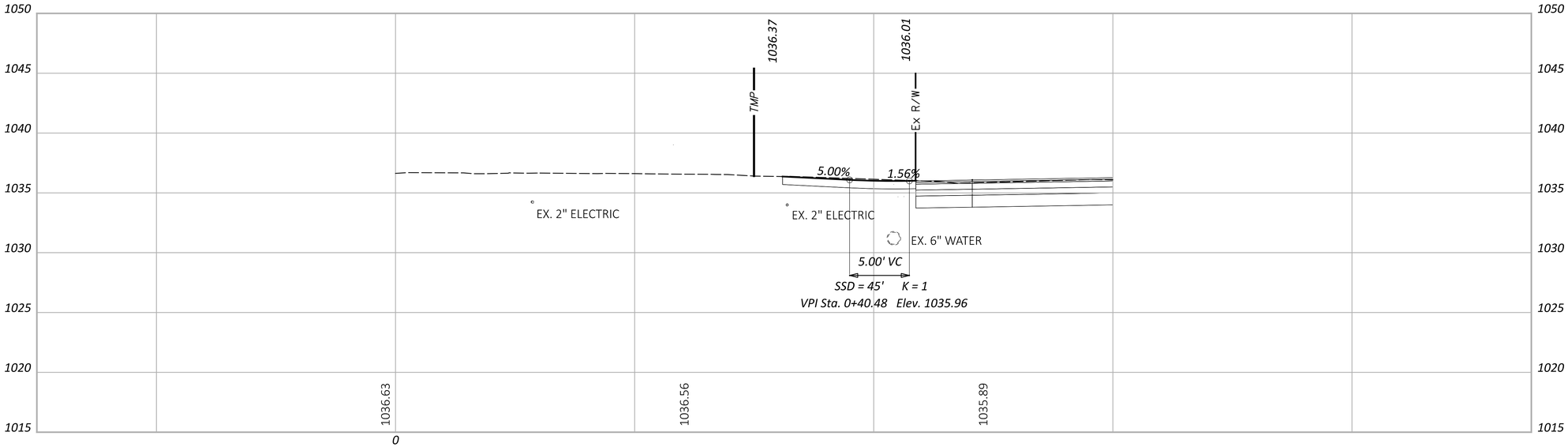
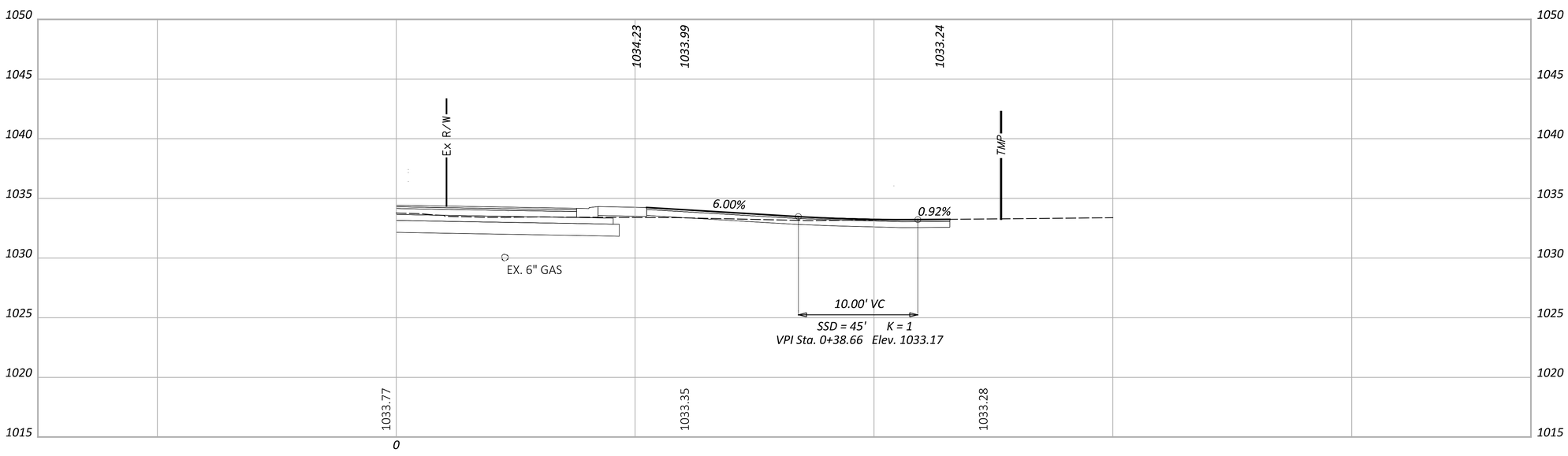


DRIVEWAY STA. 316+07.80 LT

DR-7



DRIVEWAY STA. 314+87.02 RT

DR-6

DRIVEWAY PROFILES
TOLL GATE ROAD (TR 225)

DESIGN AGENCY

OHM

DESIGNER
AHH

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.69 TOTAL 101

FAI-204-04.30

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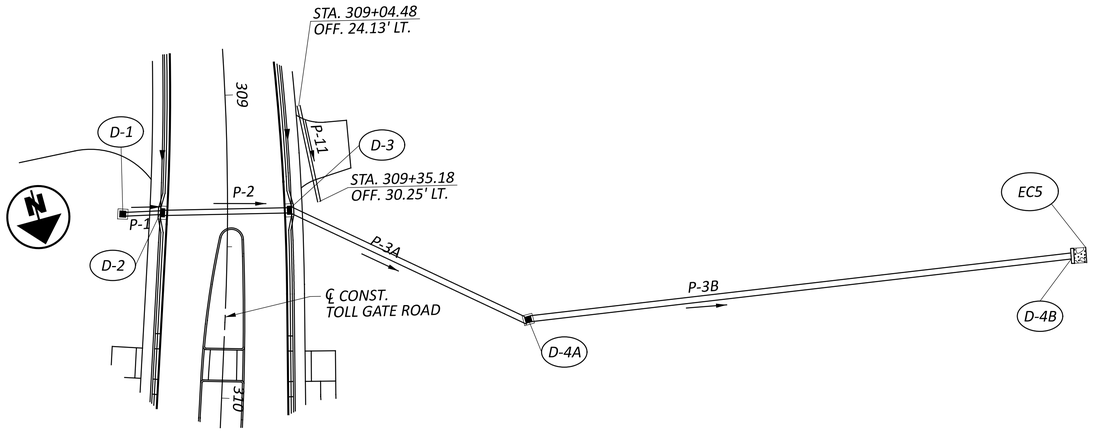
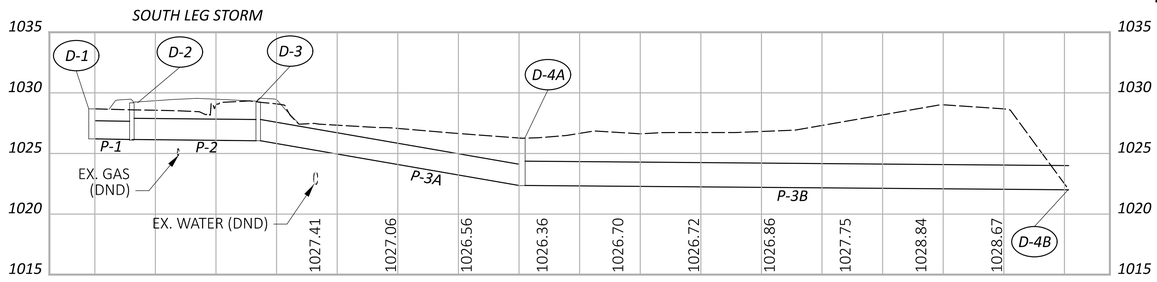
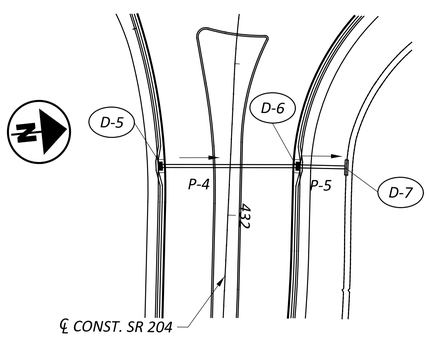
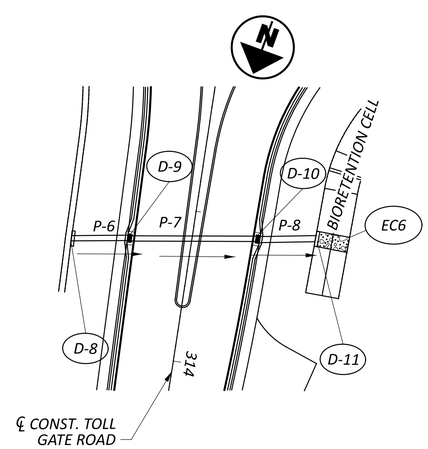


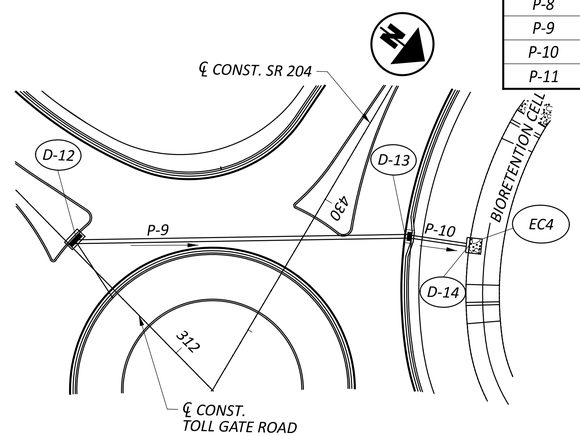


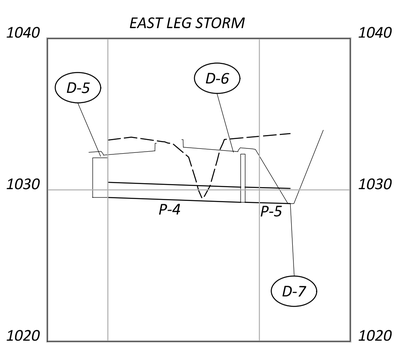
DRAINAGE STRUCTURE DETAILS								
REF. NO.	REFERENCE ALIGNMENT	STATION	OFFSET	SIDE	TYPE	GRATE/RIM ELEV.	INVERT ELEV.	CONNECTED PIPES
D-1	TOLL GATE RD	309+39.31	34.6	RT	CB 2-2B	1028.68	1026.20	(OUT) P-1 18" W
D-2	TOLL GATE RD	309+38.86	22.1	RT	CB 6	1029.17	1026.15	(IN) P-1 18" E, (OUT) P-2 21" W
D-3	TOLL GATE RD	309+37.94	21.1	LT	CB 6	1029.25	1026.05	(IN) P-2 21" E, (OUT) P-3A 21" W
D-4A	TOLL GATE RD	309+70.00	100.0	LT	CB 2-2B	1026.25	1022.36	(IN) P-3A 21" E, (OUT) P-3B 24" W
D-4B	TOLL GATE RD	309+55.00	275.0	LT	HW		1022.00	SYSTEM OUTLET P-3B
D-5	SR 204	431+84.85	23.7	RT	CB 6	1032.12	1029.50	(OUT) P-4 12" N
D-6	SR 204	431+82.87	23.1	LT	CB 6	1032.36	1029.18	(IN) P-4 12" S, (OUT) P-5 12" N
D-7	SR 204	431+85.52	37.8	LT	HW		1029.10	SYSTEM OUTLET P-5 12" S
D-8	TOLL GATE RD	313+64.40	35.8	RT	HW		1028.23	SYSTEM INLET P-6 21" W
D-9	TOLL GATE RD	313+62.05	21.1	RT	CB 6	1032.63	1028.18	(IN) P-6 21" E, (OUT) P-7 21" W
D-10	TOLL GATE RD	313+56.04	22.2	LT	CB 6	1032.61	1028.10	(IN) P-7 21" E, (OUT) P-8 21" W
D-11	TOLL GATE RD	313+52.99	40.3	LT	HW		1028.06	SYSTEM OUTLET P-8 21" E
D-12	TOLL GATE RD	311+49.54	2.5	LT	CB 3	1031.73	1027.74	(OUT) P-9 15" NW
D-13	SR 204	429+96.17	30.9	LT	CB 6	1032.34	1027.42	(IN) P-9 12" SE, (OUT) P-10 12" NW
D-14	SR 204	429+89.28	47.8	LT	HW		1027.38	SYSTEM OUTLET P-10 12" SE

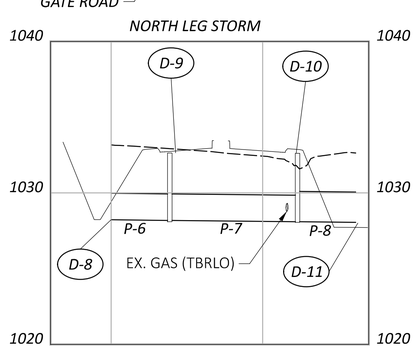
DRAINAGE CONDUIT DETAILS								
REF. NO.	LENGTH (FT)	SIZE	TYPE	SLOPE	START STRUCT. REF. NO.	START INVERT ELEV.	STOP STRUCT. REF. NO.	STOP INVERT ELEV.
P-1	11	18"	B	0.45%	D-1	1026.20	D-2	1026.15
P-2	40	21"	B	0.25%	D-2	1026.15	D-3	1026.05
P-3A	85	21"	C	4.34%	D-3	1026.05	D-4A	1022.36
P-3B	175	24"	C	0.21%	D-4A	1022.36	D-4B	1022.00
P-4	44	12"	B	0.73%	D-5	1029.50	D-6	1029.18
P-5	15	12"	B	0.53%	D-6	1029.18	D-7	1029.10
P-6	19	21"	B	0.26%	D-8	1028.23	D-9	1028.18
P-7	41	21"	B	0.20%	D-9	1028.18	D-10	1028.10
P-8	18	24"	B	0.22%	D-10	1028.10	D-11	1028.06
P-9	109	12"	B	0.29%	D-12	1027.74	D-13	1027.42
P-10	18	12"	B	0.22%	D-13	1027.42	D-14	1027.38
P-11	36	12"	D	0.28%	-	1027.12	-	1027.02

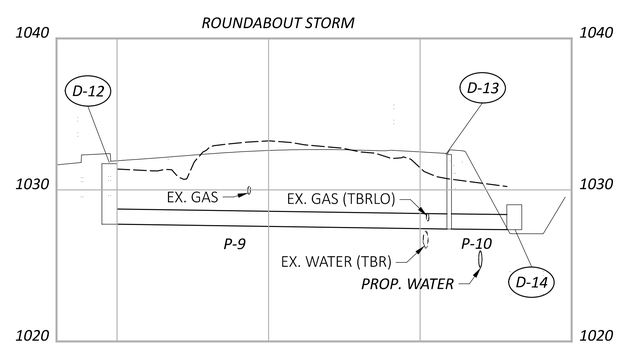












HORIZONTAL SCALE IN FEET
0 25 50 100

DRAINAGE DETAILS
SR 204 & TOLL GATE ROAD

DESIGN AGENCY
OHM

DESIGNER
HAC

REVIEWER
BLS 08/15/25

PROJECT ID
113650

SHEET P.70 TOTAL 101

FAI-204-04.30

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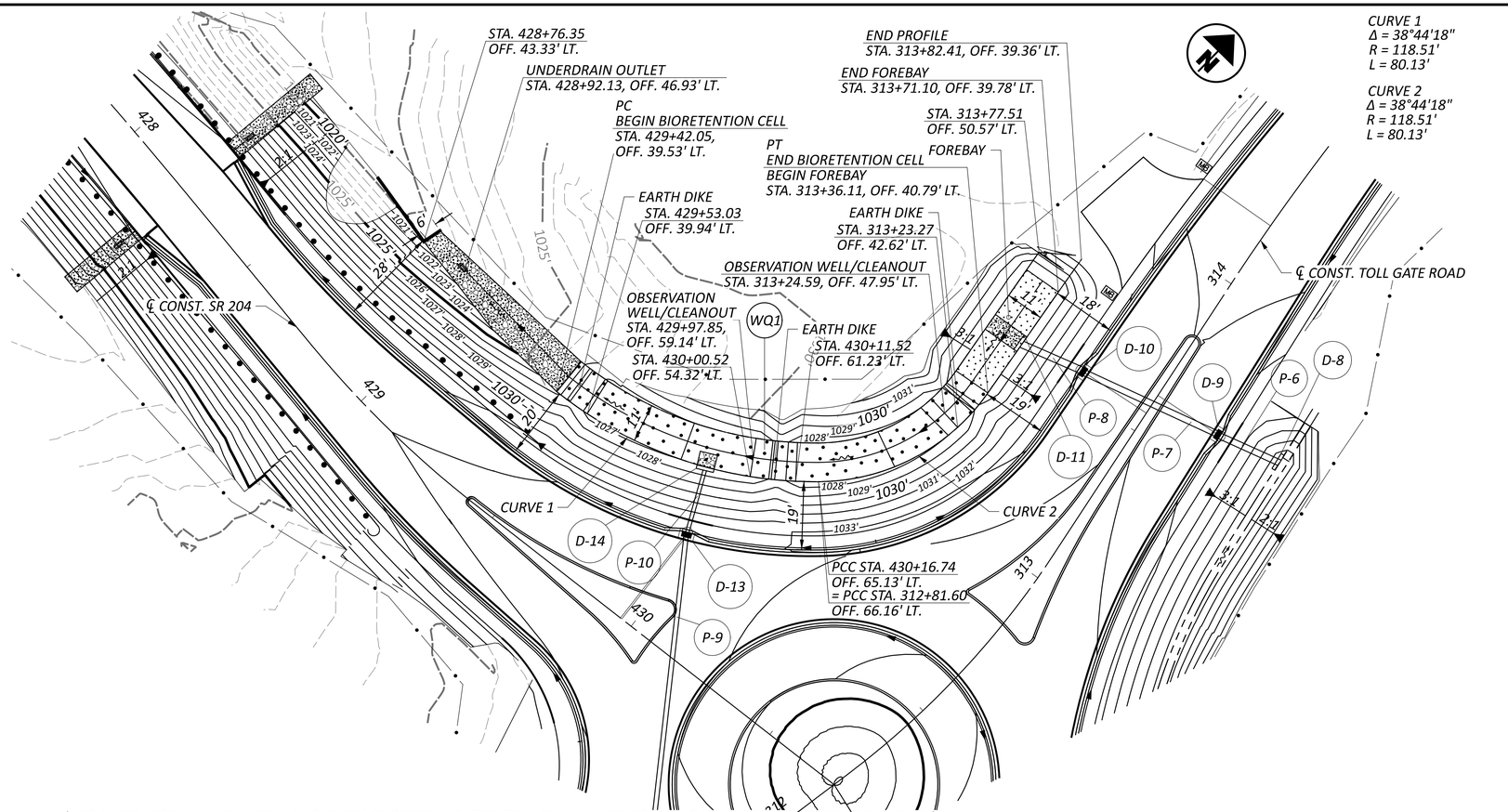


CURVE 1
Δ = 38°44'18"
R = 118.51'
L = 80.13'

CURVE 2
Δ = 38°44'18"
R = 118.51'
L = 80.13'

LEGEND

FOREBAY = 385 SF (0.009 Ac) Designed
382 SF (0.009 Ac) Required

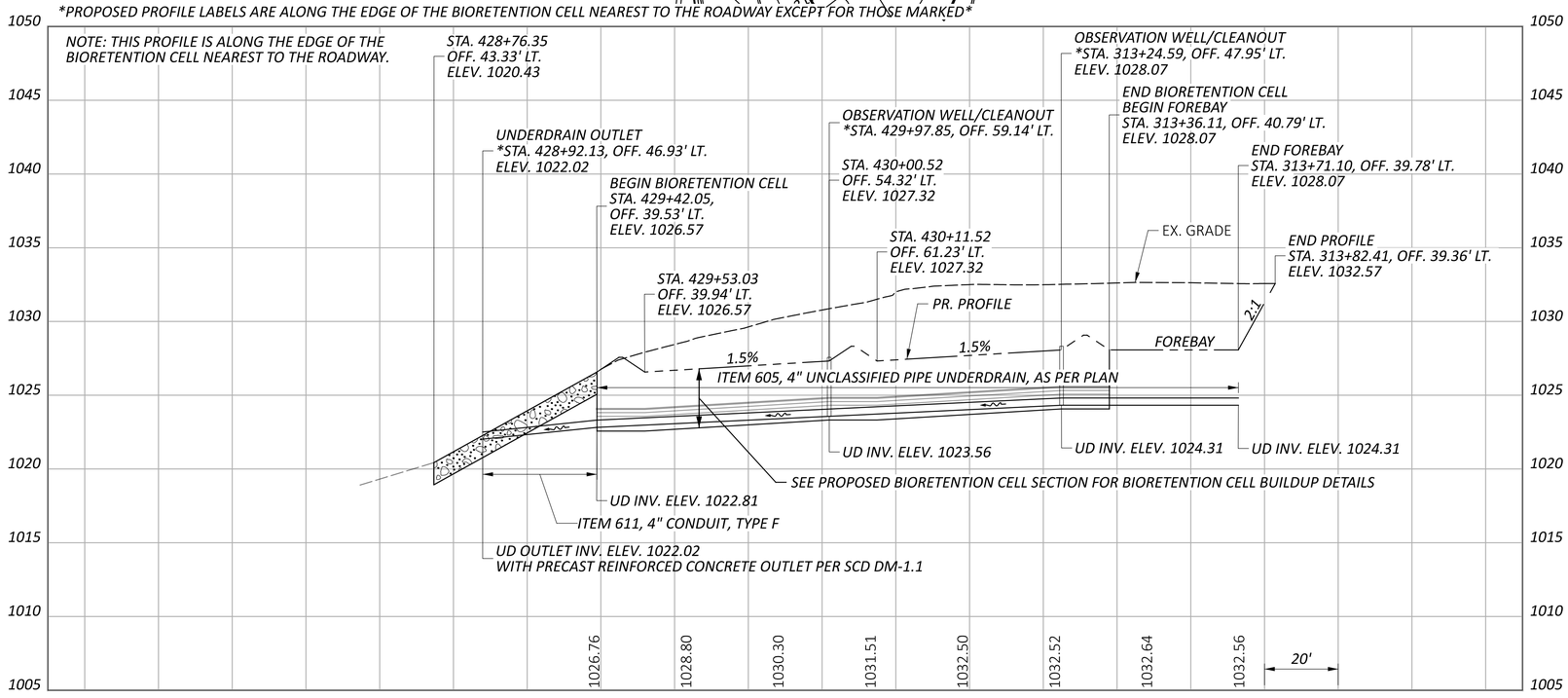
BIORETENTION CELL = 1403 SF (0.032 Ac) Designed
1307 SF (0.03 Ac) Required

ROCK CHANNEL
PROTECTION, TYPE C
WITH GEOTEXTILE
FABRIC, 18" THICK

SEE DRAINAGE DETAILS FOR DRAINAGE
CONDUIT AND STRUCTURE INFORMATION

HORIZONTAL
SCALE IN FEET
0 10 20 40

PROPOSED PROFILE LABELS ARE ALONG THE EDGE OF THE BIORETENTION CELL NEAREST TO THE ROADWAY EXCEPT FOR THOSE MARKED



BIORETENTION CELL DETAILS
PLAN AND PROFILE

DESIGN AGENCY
OHM

DESIGNER
HAC

REVIEWER
BLS 08/15/25

PROJECT ID
113650

SHEET P.71 TOTAL 101

FAI-204-04.30

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BIORETENTION CELL

CONSTRUCT THE BIORETENTION CELL AFTER ALL CONTRIBUTING DRAINAGE AREAS ARE STABILIZED AS SHOWN ON THE CONTRACT PLANS. DO NOT OPERATE HEAVY EQUIPMENT WITHIN THE PERIMETER OF A BIORETENTION CELL. USE ALL SUITABLE EXCAVATED MATERIAL IN THE WORK. ALTERNATIVELY, LEGALLY USE, RECYCLE, OR DISPOSE OF ALL EXCAVATED MATERIALS ACCORDING TO 105.16 AND 105.17.

EXCAVATE THE BIORETENTION CELL TO THE DIMENSIONS, WITH VERTICAL SIDES, TO THE ELEVATIONS SPECIFITIED. MINIMIZE THE COMPACTION OF THE BOTTOM OF THE BIORETENTION CELL. EXCAVATION WILL BE MEASURED AND PAID AS ITEM 203, EXCAVATION AS PER PLAN.

THE BIORETENTION CELL CONSISTS OF FOUR DISCRETE LAYERS: BIORETENTION PLANTING SOIL LAYER, FINE AGGREGATE LAYER, COARSE AGGREAGE NO. 78 LAYER, AND COARSE AGGREGATE NO. 57 LAYER AND AN UNDERDRAIN SYSTEM. THE MATERIALS AND VOLUMES FOR EACH LAYER ARE AS SHOWN:

BIORETENTION PROJECT	CELL QUANTITY (CY)
BIORETENTION PLANTING SOIL LAYER PLUS 3 INCH COVER	130
COMPOSITION BY VOLUME	
5 PARTS SAND - CMS FINE AGGREGATE AS PER 703.20	
1 PART TOPSOIL - CMS 659.05	
2 PARTS COMPOST - CMS 659.06	
FINE AGGREGATE AS PER CMS 703.20	13
COARSE AGGREAGE SIZE NO. 78 PER 703.20	13
COARSE AGGREAGE SIZE NO. 57 PER 703.20	52
TOTAL CUBIC YARDS	208

CONSTRUCT THE UNDERDRAIN SYSTEM AS SPECIFIED.

PLACE THE BIORETENTION PLANTING SOIL IN 12 INCH LIFTS. THE BIORETENTION PLANTING SOIL LAYER PLUS 3 INCH COVER IS 3 INCHES GREATER THAN THE DEPTH SPECIFIED TO ACCOUNT FOR EXPECTED SETTLING OF THE UNCOMPACTED SOIL.

THE BIORETENTION PLANTING SOIL SHALL BE A UNIFORM MIX THAT IS FREE OF STONES, STUMPS, ROOTS, OR ANY OTHER OBJECT LARGER THAN TWO INCHES. THE SOIL MAY CONSIST OF EXISTING SOIL, FURNISHED SOIL, OR A COMBINATION OF BOTH PROVIDED THAT THE PH IS BETWEEN 5.2 - 8.0 AND MEETS THE COMPOSITION REQUIREMENTS LISTED ABOVE. PHOSPHORUS CONCENTRATIONS OF THE PLANTING SOIL SHALL FALL BETWEEN 15 AND 60 MG/KG (PPM) AND DETERMINED BY THE MEHLICH III TEST.

THOROUGHLY MIX THE BIORETENTION PLANTING SOIL PRIOR TO PLACEMENT.

PLACE OBSERVATION WELL AND CLEANOUT WHERE SPECIFIED. CONNECT THE OBSERVATION WELL AND CLEANOUT TO THE PERFORATED UNDERDRAIN WITH THE APPROPRIATE MANUFACTURED CONNECTIONS. EXTEND THE OBSERVATION WELL AND CLEANOUT 4 INCHES ABOVE THE SURFACE ELEVATION. CAP THE OBSERVATION WELL AND CLEANOUT WITH A THREADED SCREW CAP. CAP THE ENDS OF PERFORATED UNDERDRAIN PIPES NOT TERMINATING IN AN OBSERVATION WELL AND CLEANOUT OR CONNECTED TO OTHER CONDUITS.

PLACE SEED, TURF, TREES, SHRUBS, OR OTHER PLANT MATERIALS FOR BIORETENTION FACILITIES AS SPECIFIED. PLANT MATERIALS WILL BE MEASURED AND PAID FOR PER CMS ITEM 659. APPLY NO PESTICIDES, HERBICIDES, LIME, AND FERTILIZERS. INSTALL ITEM 611 AS SPECIFIED. INSTALL TEMPORARY EROSION CONTROL MAT TYPE A, B, C, OR E PER CMS 671 WITH EITHER STRAW MULCH OR COMPOST OR AS SPECIFIED IN THE PLANS.

BIORETENTION CELL (CONTINUED)

BIORETENTION CELLS WILL BE PAID FOR AS ITEM 601, BIORETENTION CELL CY AND ITEM 601, TIED CONCRETE MAT SY.

EXCAVATION FOR BIORETENTION CELLS SHALL BE FOR VERTICAL SIDES ONLY AS SPECIFIED AND PAID FOR AS ITEM 203, EXCAVATION, AS PER PLAN, BIORETENTION CELL CY.

PERFORATED UNDERDRAINS, OBSERVATION WELLS, AND ASSOCIATED FITTINGS AND COUPLERS WILL BE PAID FOR AS ITEM 605, 4" UNCLASSIFIED PIPE UNDERDRAIN, AS PER PLAN.

NON PEFORATED OUTLET PIPES FOR BIORETENTION CELLS SHALL BE PAID FOR AS ITEM 611.

SEEDING AND MULCHING FOR THE BIORETENTION CELL SHALL BE PAID FOR AS ITEM 659 SEEDING AND MULCHING SY.

EROSION CONTROL MATS SHALL BE PAID FOR AS ITEM 671, EROSION CONTROL MATS SY.

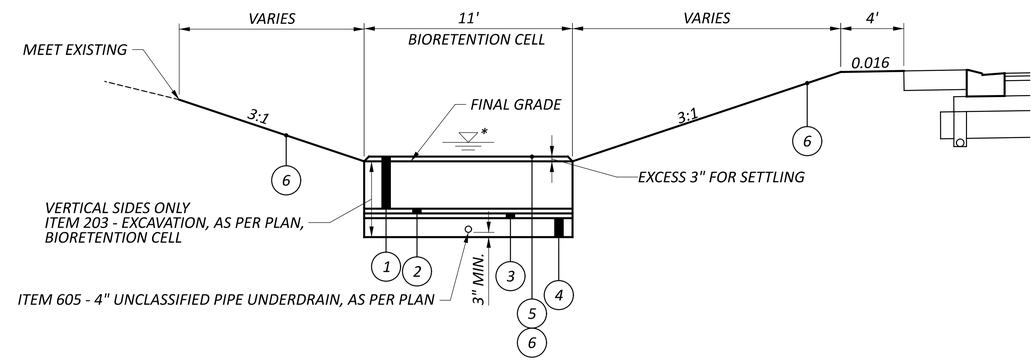
ITEM 605 - 4" UNCLASSIFIED PIPE UNDERDRAINS, AS PER PLAN

THE BIORETENTION CELL 4" UNCLASSIFIED PIPE UNDERDRAIN SHALL BE PERFORATED. COSTS FOR BIORETENTION CELL UNDERDRAINS, OBSERVATION WELLS, AND ASSOCIATED FITTINGS AND COUPLERS SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 605, 4" UNCLASSIFIED PIPE UNDERDRAIN, AS PER PLAN.

ITEM 203 - EXCAVATION, AS PER PLAN, BIORETENTION CELL

EXCAVATION FOR THE BIORETENTION CELL SHALL BE COMPLETED SO THAT THE VERTICAL SIDES OF THE PROPOSED CELL ARE ESTABLISHED.

PROPOSED BIORETENTION CELL SECTION

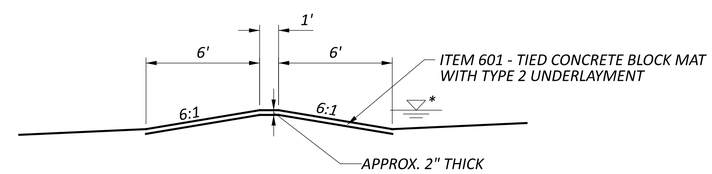


1. 30" BIORETENTION PLANTING SOIL
2. 3" FINE AGGREGATE PER CMS 703.20
3. 3" COARSE AGGREGATE, SIZE NO. 78 PER CMS 703.20
4. 12" COARSE AGGREGATE, SIZE NO. 57 PER CMS 703.20
5. ITEM 671 - EROSION CONTROL MAT
6. ITEM 659 - SEEDING AND MULCHING

NOTE: LAYERS 1 THRU 4 ARE PAID FOR UNDER ITEM 601, BIORETENTION CELL

*MAXIMUM 12" PONDING ALLOWED

EARTH DIKE PROFILE DETAIL



BIORETENTION CELL DETAILS
NOTES AND DETAILS

DESIGN AGENCY
OHM

DESIGNER
HAC

REVIEWER
BLS 08/15/25

PROJECT ID
113650

SHEET P.72 TOTAL 101

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GENERAL

THE CURRENT FAIRFIELD COUNTY CONSTRUCTION AND MATERIAL SPECIFICATIONS (FCCMS), INCLUDING ALL SUPPLEMENTS THERETO, WITH THE REQUIREMENTS OF FAIRFIELD COUNTY IN FORCE ON THE DATE OF CONTRACT, SHALL GOVERN ALL MATERIALS, METHODS OF CONSTRUCTION AND WORKMANSHIP INVOLVED IN THE WATER MAIN IMPROVEMENTS SHOWN ON THESE PLANS, EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN. ANY MODIFICATION TO THE SPECIFICATIONS OR CHANGES TO THE WATER WORK AS SHOWN ON THESE PLANS MUST HAVE PRIOR WRITTEN APPROVAL OF THE COUNTY SANITARY ENGINEER.

SAFETY OF CONSTRUCTION

COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AS AMENDED AND APPLICABLE OSHA REGULATIONS IS REQUIRED OF ALL CONTRACTORS ON THE PROJECT. EACH CONTRACTOR AND SUBCONTRACTOR IS RESPONSIBLE TO IMPLEMENT, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.

NOTIFICATION

THE CONTRACTOR SHALL NOTIFY THE COUNTY SANITARY ENGINEER (614-322-5200) SEVENTY-TWO (72) HOURS, EXCLUDING WEEKENDS AND HOLIDAYS, PRIOR TO THE START OF CONSTRUCTION OF WATER AND/OR SANITARY SEWER UTILITIES. WHEN CONSTRUCTION IS SUSPENDED FOR MORE THAN SEVEN DAYS, THE CONTRACTOR SHALL NOTIFY THE COUNTY SANITARY ENGINEER SEVENTY-TWO (72) HOURS, EXCLUDING WEEKENDS AND HOLIDAYS, PRIOR TO RESUMING CONSTRUCTION. CONSTRUCTION SHALL NOT START PRIOR TO THE REQUIRED NOTICE BEING GIVEN.

CLEAN-UP

THE TRACKING OF MUD, DIRT OR DEBRIS UPON ANY PUBLIC ROADWAY IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR. THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM THE CONSTRUCTION OPERATION AND RESTORE ALL SURFACES, STRUCTURES, DITCHES, AND PROPERTY TO ITS ORIGINAL CONDITION AND TO THE SATISFACTION OF THE COUNTY SANITARY ENGINEER.

PERMITS

THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS PRIOR TO BEGINNING CONSTRUCTION. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE FEDERAL, STATE AND COUNTY REGULATIONS AND REQUIREMENTS.

CROSSINGS

ALL WATER MAINS AND SERVICES SHALL BE CONSTRUCTED WITH AT LEAST 10 FEET HORIZONTAL SEPARATION AND AT LEAST AN 18 INCH VERTICAL SEPARATION FROM ALL SANITARY AND STORM SEWERS. WHEN THE 10 FOOT OR 18 INCH CLEARANCE CANNOT BE OBTAINED, THE SANITARY OR STORM SEWER SHALL BE CONSTRUCTED OF WATERLINE MATERIALS AS APPROVED IN THE COUNTY'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, AND/OR THE WATERLINE MUST BE RELOCATED OR LOWERED AS DIRECTED BY THE COUNTY SANITARY ENGINEER.

CURB MARKINGS

THE FAIRFIELD COUNTY UTILITIES DEPARTMENT REQUIRES THAT THE LETTERS "V"FOR WATER MAIN VALVE, "W"FOR WATER SERVICE LINE AND "S" FOR SANITARY SEWER SERVICE LINE BE EMBEDDED IN THE CONCRETE CURB. FOR STANDARD CURBS, THE LETTER IS TO BE LOCATED IN THE CENTER ON THE TOP FLAT PORTION OF THE CURB. FOR ROLLED CURBS, THE TOP OF THE LETTER IS TO BE LOCATED ON THE FACE OF THE CURB WITHIN ONE AND ONE-HALF (1-1/2) INCHES OF THE CREST. THE LETTER IS TO BE AT LEAST TWO (2) INCHES WIDE, THREE (3) INCHES HIGH AND ONE QUARTER (1/4) INCH DEEP. THE LETTER "V"IS TO BE LOCATED ON THE CURB IMMEDIATELY ADJACENT TO ALL WATER MAIN VALVES. THE LETTERS "W"AND "S"ARE TO BE LOCATED DIRECTLY OVER THE HOUSE SERVICE LINES.

PROHIBITED CONSTRUCTION ACTIVITIES

THE FOLLOWING CONSTRUCTION ACTIVITIES ARE PROHIBITED ON THE PROJECT.
- USING ANY SUBSTANCE OTHER THAN WATER TO CONTROL DUST.
- TRACKING OF MUD, DIRT AND DEBRIS ONTO ANY PUBLIC ROADWAY.
- OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT.
THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE PERMIT OR DISPOSING OF THE TREES AND STUMPS.
- PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, ANY WETLANDS, OR STORM SEWERS.
- DISCHARGING POLLUTANTS - SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE - AND OTHER HARMFUL WASTE INTO OR ALONGSIDE RIVERS, STREAMS, IMPOUNDMENTS OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO.
- STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY SPECIFIED FOR SAID PURPOSES.
- DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOODPLAINS, EVEN WITH THE PERMISSION OF THE PROPERTY OWNER.
- INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, WETLANDS, SURFACE WATERS, OR OUTSIDE THE EASEMENT AREA.
- PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF A STREAM.
- REMOVAL OF TREES AND BUSHES, OR DAMAGING VEGETATION OUTSIDE THE LIMITS OF THE CONSTRUCTION AREA.
- DISPOSAL OF TREES, BRUSH AND OTHER DEBRIS IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS OR AT UNSPECIFIED LOCATIONS.

RECORD DRAWINGS

ONE (1) SET OF RECORD CONSTRUCTION DRAWINGS AND A COMPUTER DISK IN AUTOCAD FORMAT AND .TIFF OR .PDF FORMAT SHALL BE PROVIDED TO THE FAIRFIELD COUNTY UTILITIES DEPARTMENT AS SOON AS ALL PUBLIC IMPROVEMENTS ARE COMPLETED AND PRIOR TO FINAL ACCEPTANCE.

CONNECTING WATERLINES

THE CONNECTION OF PROPOSED WATERLINES TO EXISTING WATERLINES SHALL BE DONE IN A MANNER THAT WILL CAUSE A MINIMUM OF INCONVENIENCE TO THOSE WITH AFFECTED SERVICES. WORK CONCERNING THE DISCONNECTION AND RECONNECTION OF EXISTING WATERLINES SHALL BE DONE BETWEEN THE HOURS OF 10:00 P.M. AND 5:00 A.M., OR AS DIRECTED BY THE COUNTY SANITARY ENGINEER. NO S UCH WORK SHALL BEGIN UNTIL THE TOWNSHIP FIRE DEPARTMENT, COUNTY SANITARY ENGINEER, COUNTY SHERIFF'S OFFICE AND RESIDENTS WHOSE SERVICES WILL BE AFFECTED ARE ALL NOTIFIED AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE CONNECTION, OF THE EXTENT, NATURE AND TIME OF THE ANTICIPATED WORK, NOR UNTIL THE METHOD AND SCHEDULE OF SUCH WORK HAS BEEN APPROVED BY THE COUNTY SANITARY ENGINEER.

CONFLICTS

WHEN CONFLICTS IN GRADE BETWEEN WATERLINES AND SEWERS ARE FOUND DURING CONSTRUCTION, THE WATERLINES SHALL BE LOWERED, UNLESS DIRECTED OTHERWISE BY THE COUNTY SANITARY ENGINEER. A MINIMUM VERTICAL SEPARATION OF 18 INCHES, MEASURED FROM THE OUTSIDE OF EACH PIPE, SHALL BE MAINTAINED.

MINIMUM DEPTH

WATER LINES SHALL BE LAID WITH A MINIMUM OF FOUR (4) FEET OF COVER FROM THE FINAL PROPOSED GROUND OR PAVEMENT GRADE TO THE TOP OF THE WATERLINE.

LINE CROSSINGS

AT ALL POINTS OF CROSSING OF WATER MAINS AND SEWERS, THE BACKFILL SHALL BE GRANULAR MATERIAL BETWEEN THE DEEPER AND SHALLOWER PIPE. THE MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAINS AND ALL SANITARY AND STORM SEWERS SHALL BE TEN (10) FEET MEASURED FROM THE OUTSIDE OF EACH PIPE. THE MINIMUM VERTICAL SEPARATION AT CROSSINGS OF WATER MAINS AND ALL SEWERS SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF EACH PIPE.

ITEM 638 - WATER WORK, MISC.: EXISTING WATER MAIN REMOVED

THE CONTRACTOR SHALL COORDINATE REMOVAL OF THE EXISTING WATER MAIN WITH THE FAIRFIELD COUNTY UTILITIES DEPARTMENT. WATER WORK SHALL NOT OCCUR UNTIL A PLAN FOR CONNECTIONS, TESTING, DISINFECTION, AND REMOVAL IS APPROVED BY THE FAIRFIELD COUNTY UTILITIES DEPARTMENT.

PAYMENT FOR ALL OF THE ABOVE WORK SHALL BE AT THE UNIT PRICE BID PER FOOT FOR THE ABOVE ITEM, WHICH INCLUDES ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK.

DISINFECTION

ALL WATER MAINS SHALL BE CLEANED AND DISINFECTED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF AWWA SPECIFICATION C651. SPECIAL ATTENTION IS DIRECTED TO THE REQUIREMENTS OF FLUSHING AND CHLORINATING VALVES AND FIRE HYDRANTS. RESULTS OF THE DISINFECTION TESTS SHALL BE FURNISHED TO THE COUNTY SANITARY ENGINEER PRIOR TO ACCEPTANCE OF THE SYSTEM.

TESTING

A HYDROSTATIC TEST, AS REQUIRED IN SECTION 7.3 OF AWWA SPECIFICATION C605 FOR PVC PIPE OR SECTION 5.2 OF AWWA SPECIFICATION C600 FOR DUCTILE IRON PIPE AS APPLICABLE, SHALL BE APPLIED TO THE WATER MAIN. IF THERE ARE INDICATIONS OF LEAKS UNDER THIS PRESSURE TEST, THE CONTRACTOR SHALL LOCATE AND REPAIR ALL LEAKS AT THE CONTRACTOR'S EXPENSE UNTIL THE LEAKAGE IS WITHIN THE SPECIFIED ALLOWANCE. ALL BENDS, JOINT DEFLECTIONS AND HYDRANTS SHALL HAVE CONCRETE BACKING, AND ALL VALVES SHALL HAVE CONCRETE SUPPORTS, IN ACCORDANCE WITH THE STANDARD CONSTRUCTION DRAWINGS. FINAL WATER PRESSURES TESTING FOR ACCEPTANCE TO BE CONDUCTED AFTER ALL OTHER UTILITIES ARE INSTALLED IN NEW DEVELOPMENT AREAS.

WATER NOTES

DESIGN AGENCY
OHM

DESIGNER
HAC

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.73 TOTAL 101

CURB AND VALVE BOXES

CURB BOXES SHALL BE LOCATED 12 INCHES FROM THE PROPERTY LINE OR EASEMENT LINE FOR SHORT SERVICES AND 12 INCHES FROM THE PROPERTY LINE ON LONG SERVICES, UNLESS OTHERWISE SHOWN ON THE PLANS. ALL CURB BOX AND VALVE BOX TOPS SHALL BE ADJUSTED TO BE 3" ABOVE FINAL SURFACE GRADES. THE CONTRACTOR SHALL FURNISH AND PLACE, AS DIRECTED, A STAKE MADE OF 4" X 4" TREATED HARDWOOD LUMBER AT ALL CURB BOXES AND VALVE BOXES, EXTENDING A MINIMUM OF 3 FEET ABOVE FINAL SURFACE GRADES WITH THE FINAL 2 FEET PAINTED COVE BLUE. ALL CURB AND VALVE BOX LIDS SHALL BE THOROUGHLY CLEANED AND PREPPED, BE PRIMED WITH ONE COAT TNEMEC UNI-BOND DF SERIES GRAY AND BE PAINTED WITH TWO COATS TNEMEC ENDURATONE SERIES 1028 COVE BLUE FOR THE TOP COATS.

VALVE EXTENSION

IF THE TOP OF THE OPERATING NUT IS LOWER THAN 36 INCHES BELOW FINISHED GRADE, AN EXTENSION STEM SHALL BE FURNISHED TO BRING THE TOP OF THE OPERATING NUT TO BETWEEN 24 INCHES AND 36 INCHES OF FINISHED GRADE ELEVATION.

INSTALLATION IN EMBANKMENT

WHERE WATER MAINS ARE TO BE INSTALLED IN EMBANKMENT AREAS, THE EMBANKMENT SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO THE INSTALLATION OF THE WATER MAIN. THE WATER MAIN SHALL BE INSTALLED WITH A MINIMUM OF FOUR (4) FEET OF COVER IN ALL DIRECTIONS.

VALVE OPERATION

EXISTING VALVES SHALL BE OPERATED BY FAIRFIELD COUNTY UTILITIES PERSONNEL ONLY.

FITTING MARKERS

THE CONTRACTOR SHALL PROVIDE 3M ELECTRONIC MARKING SYSTEM FULL RANGE MAKERS AT EVERY FITTING BEND OR TEE THAT DOES NOT HAVE A VALVE OR EVERY 50' ON A STRAIGHT RUN. THE MARKERS SHALL BE ATTACHED TO THE PIPE WITH A PLASTIC ZIP TIE.

CONSTRUCTION AND MATERIAL SPECIFICATIONS

ALL MATERIALS AND CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE CURRENT FAIRFIELD COUNTY CONSTRUCTION AND MATERIAL SPECIFICATIONS, INCLUDING ALL SUPPLEMENTS THERETO. WATER MAIN PIPE SHALL BE PVC PLASTIC PIPE, AWWA C900 DR 14. DUCTILE IRON PIPE CLASS 53, AWWA C151, CEMENT LINED AWWA C104, WITH JOINTS CONFORMING TO AWWA C111 IS AN ACCEPTABLE ALTERNATE WATER MAIN PIPE. ALL BENDS, JOINT DEFLECTIONS AND FITTINGS SHALL BE BACKED WITH CONCRETE. BLUE METALLIC FIELD LOCATOR TAPE OF SIX (6) INCH WIDTH SHALL BE PLACED OVER ALL WATER MAINS, WITHIN 12 TO 18 INCHES OF FINISHED GRADE. COPPERHEAD 10 GAUGE TRACER WIRE (1030 HS, OPEN TRENCH, 1045-EHS DIRECTIONAL DRILL) SHALL BE LAID WITH THE PIPE TRENCHAND EXTENDED INTO EACH VALVE OPENING. WATER MAIN VALVES SHALL BE AWWA C509 OR C515, RESILIENT WEDGE WITH 250 PSI WORKING PRESSURE, NON-RISING STEM, LEFT HAND OPEN VALVE WITH RUBBER "O" PACKING SEALS. ALL BOLTS TO BE 304 STAINLESS STEEL. WATER MAIN VALVES SHALL BE OF THE SAME MANUFACTURER AS THE HYDRANTS IN THE SUBDIVISION OR SERVICE AREA. WATER SERVICE LINE PIPE SHALL BE PHILLIPS DRISCOPIPE POLYETHYLENE SDR 9, AND SHALL BE INSTALLED WITH A COVER OF FOUR (4) FEET. SERVICE SADDLES TO BE ALL STAINLESS STEEL WITH FULL RUBBER INSERT. SEE FCU ACCEPTABLE SERVICE SADDLES AND TAPPING SADDLE APPROVED LIST.

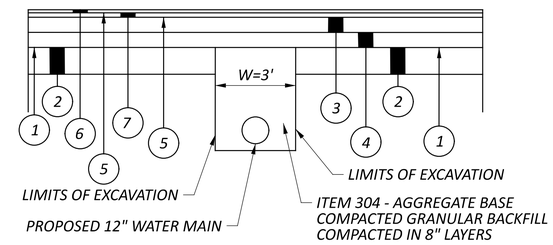
WATER SYSTEM PRESSURE

THE NORMAL WORKING PRESSURE IN THE WATER SYSTEM WILL NOT BE LESS THAN 35 PSI. INDIVIDUAL BOOSTER PUMPS ARE NOT PERMITTED FOR ANY INDIVIDUAL SERVICE. IF THE STATIC PRESSURE IN THE WATER SYSTEM AT THE WORK AREA IS GREATER THAN 80 PSI, THEN A PRESSURE REDUCING VALVE SHALL BE REQUIRED FOR EACH HOUSE OR BUILDING.

TOOLS AND SPARE PARTS

THE FOLLOWING TOOLS AND SPARE PARTS SHALL BE DELIVERED TO THE COUNTY PRIOR TO CONDITIONAL ACCEPTANCE OF THE PROJECT: ONE MAINLINE WRENCH, ONE PROBE (SIX FEET), 1 CURB BOX WRENCH, 1 COMPLETE CURB BOX, 1 FIRE HYDRANT WRENCH.

PERMANENT PAVEMENT REPLACEMENT DETAIL



MAXIMUM PAY WIDTH IS TRENCH WIDTH (W) PLUS 2'-0".
TRENCH WIDTH IS MEASURED 12" ABOVE THE TOP OF PIPE. TRENCH WIDTH MAY BE WIDER ABOVE THIS LINE BUT PAY WIDTH WILL NOT EXCEED W+2'.

LEGEND

1. *ITEM 204 - PROOF ROLLING*
2. *ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP*
3. *ITEM 301 - 4" ASPHALT CONCRETE BASE (449)*
4. *ITEM 304 - 6" AGGREGATE BASE*
5. *ITEM 407 - NON-TRACKING TACK COAT*
6. *ITEM 441 - 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), PG70-22M*
7. *ITEM 441 - 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (449)*

SEE TYPICAL SECTIONS FOR BUILDUP UNDER SPLITTER ISLANDS.

WATER NOTES

DESIGN AGENCY
OHM

DESIGNER
HAC

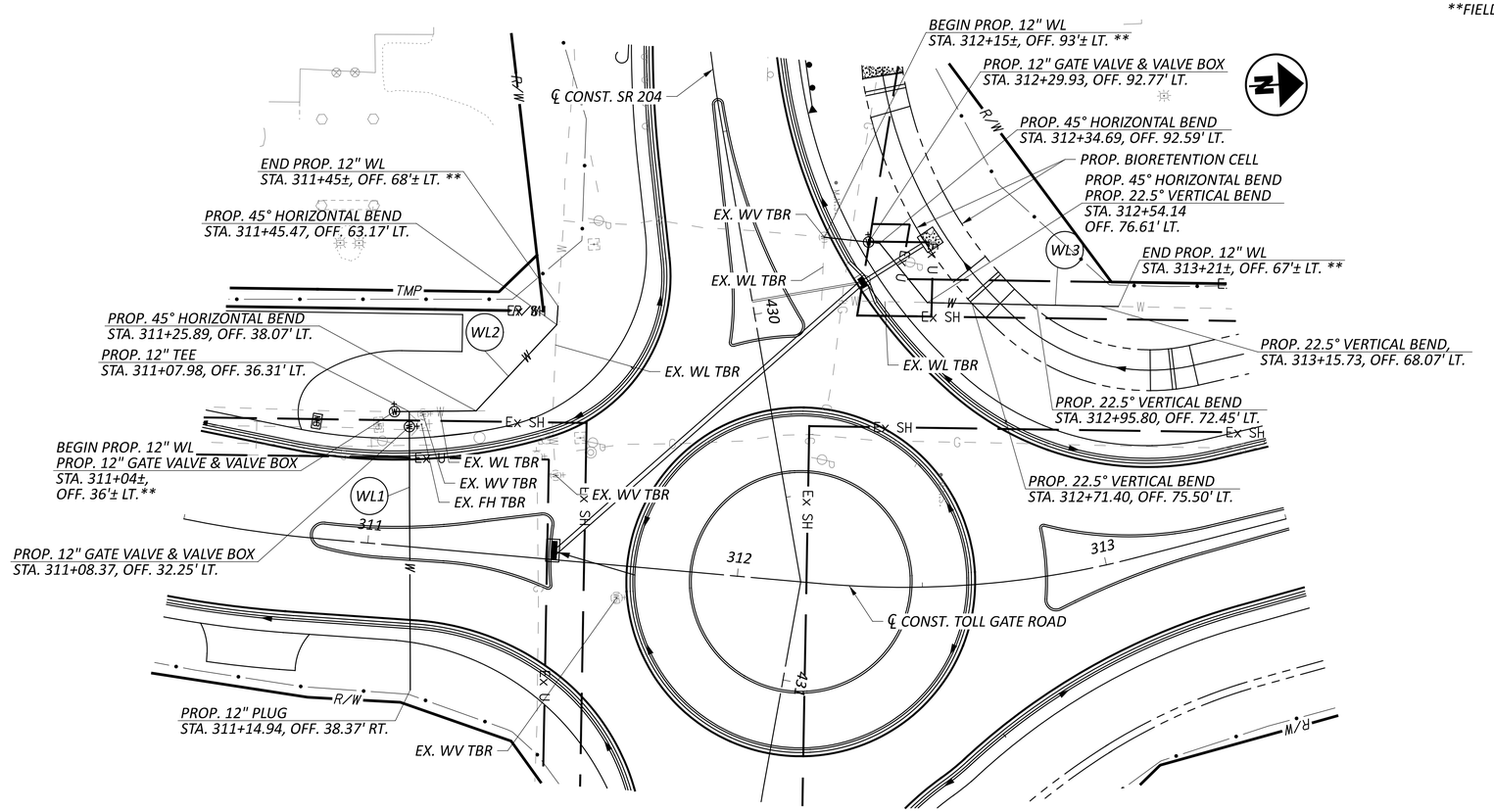
REVIEWER
SEO 08/15/25

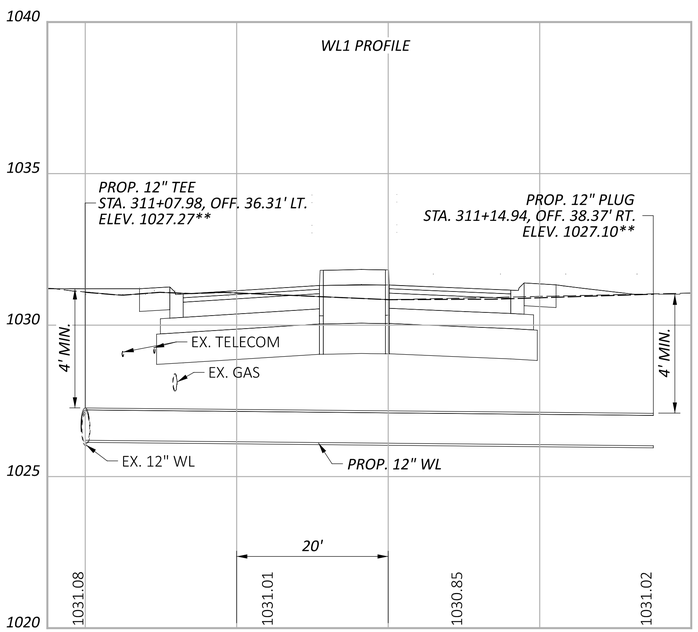
PROJECT ID
113650

SHEET P.74 TOTAL 101

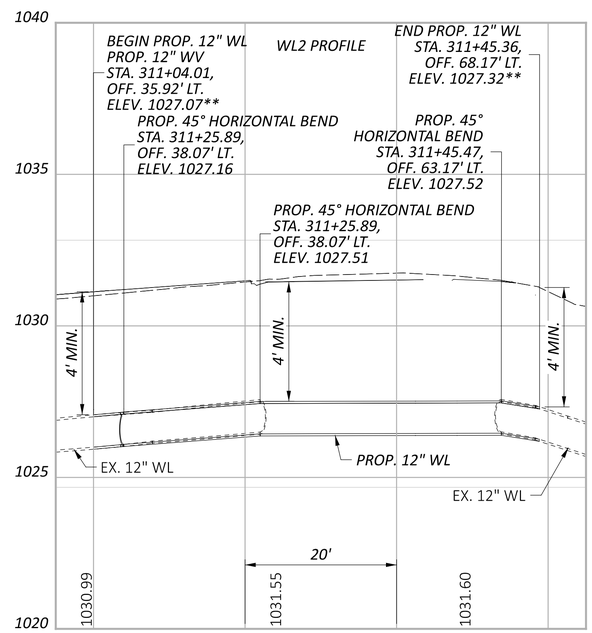
FAI-204-04.30

**FIELD VERIFY EXISTING WATER MAIN LOCATION AND DEPTH





NOTE:
1) PROFILE SHOWN IS ALONG THE PROP. WATER MAIN
2) WATERLINE ELEVATION CALLOUTS ARE LOCATED AT TOP OF PIPE



NOTE:
1) PROFILE SHOWN IS ALONG THE PROP. WATER MAIN
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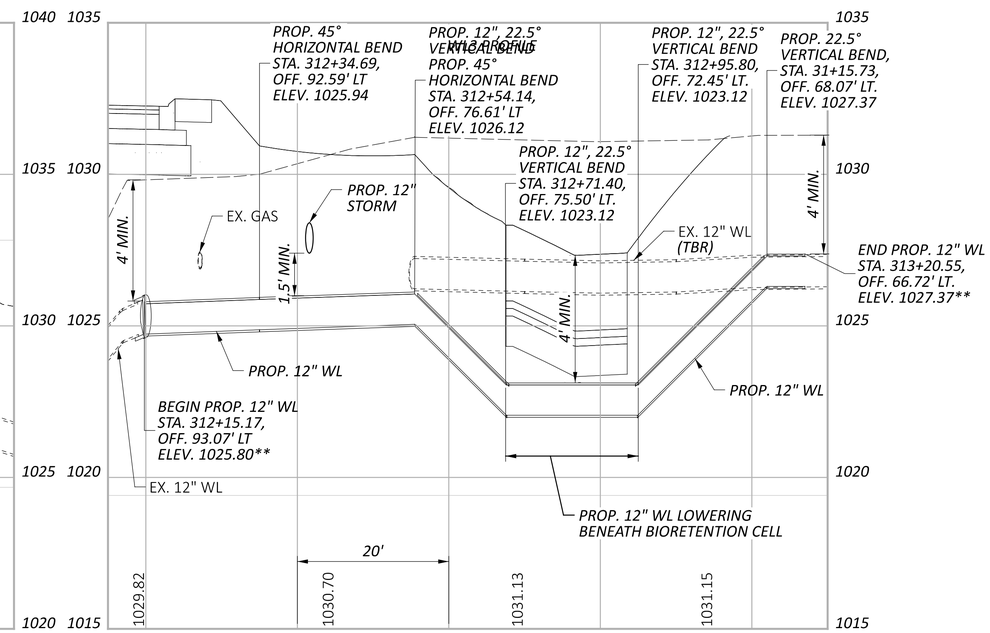


NOTE:
1) PROFILE SHOWN IS ALONG THE PROP. WATER MAIN
2) WATERLINE ELEVATION CALLOUTS ARE LOCATED AT TOP OF PIPE

HORIZONTAL SCALE IN FEET
0 10 20 40

WATER WORK DETAILS
PLAN AND PROFILES

DESIGN AGENCY
OHM

DESIGNER
HAC

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.75 TOTAL 101

FAI-204-04.30

ITEM 630 - SIGNING MISC.: SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY

THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING A SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY. THE FLASHING UNIT SHALL BE SOLAR POWERED, PEDESTRIAN ACTIVATED, AND 2-SIDED WITH TWO LED ARRAY BASED YELLOW INDICATIONS ON EACH SIDE. MULTIPLE UNITS SHALL BE WIRELESSLY CONTROLLED AND SYNCHRONIZED. THE UNIT SHALL BE COMPLIANT WITH THE MOST CURRENT OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD) AND FHWA INTERIM APPROVAL FOR RRFBS (IA-21).

GENERAL REQUIREMENTS -

EACH RRFB SHALL CONSIST OF TWO RAPIDLY FLASHED RECTANGULAR-SHAPED YELLOW INDICATIONS HAVING LED ARRAY BASED LIGHT SOURCE.

EACH RRFB SHALL BE A COMPLETE ASSEMBLY, CONSISTING OF BUT NOT LIMITED TO, SIGNAGE, SIGN MOUNTING HARDWARE, INDICATIONS AND ELECTRICAL COMPONENTS (WIRING, SOLID-STATE CIRCUIT BOARDS, ETC.).

EACH RRFB SHALL CONTAIN A PEDESTRIAN INDICATION LIGHT VISIBLE BY THE PEDESTRIAN IN THE DIRECTION OF TRAVEL.

FUNCTIONAL REQUIREMENTS -

EACH RRFB SHALL UTILIZE SOLAR POWER.

EACH RRFB SHALL BE ACTIVATED BY ADA COMPLIANT PUSHBUTTONS.

THE RRFB SHALL BE NORMALLY DARK, SHALL INITIATE OPERATION ONLY UPON PEDESTRIAN ACTUATION, AND SHALL CEASE OPERATION AFTER A PREDETERMINED TIME LIMIT (BASED ON OMUTCD PROCEDURES).

EACH REMOTE RRFB SHALL BE WIRELESSLY ACTIVATED.

ALL RRFB LIGHT INDICATIONS SHALL BE WIRELESSLY SYNCHRONIZED (ALL LIGHTS WILL TURN ON WITHIN 120 MSEC AND REMAIN SYNCHRONIZED THROUGHOUT THE DURATION OF THE FLASHING CYCLE).

THE UNIT SHALL BE CAPABLE OF RUNNING 14 DAYS WITHOUT SUNLIGHT.

MATERIALS -

FURNISH A COMPLETE ASSEMBLY, CONSISTING OF BUT NOT LIMITED TO, SIGNAGE, SIGN MOUNTING HARDWARE, INDICATIONS, AND ELECTRICAL COMPONENTS (WIRING, SOLID-STATE CIRCUIT BOARDS, ETC.). THE RRFB ASSEMBLY INCLUDES THE FOLLOWING ITEMS:

1. RRFB INDICATIONS

A. EACH RRFB INDICATION LENS SHALL BE A MINIMUM SIZE OF APPROXIMATELY 5" WIDE X 2" HIGH.

B. THE RRFB INDICATIONS SHALL BE ALIGNED HORIZONTALLY, WITH THE LONGER DIMENSION OF THE INDICATION HORIZONTAL. THERE SHALL BE TWO INDICATIONS ON THE FRONT AND TWO INDICATIONS ON THE BACK.

C. EACH RRFB SHALL BE SUPPLIED WITH ALL REQUIRED HARDWARE TO INSTALL ASSEMBLY. ALL EXPOSED HARDWARE SHALL BE ANTI-VANDAL.

ITEM 630 - SIGNING MISC.: SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY (CONT.)

D. EACH RRFB SHALL BE LOCATED BETWEEN THE BOTTOM OF THE CROSSING WARNING SIGN AND THE TOP OF THE SUPPLEMENTAL DOWNWARD DIAGONAL ARROW PLAQUE.

E. THE LIGHT INTENSITY OF THE YELLOW INDICATIONS SHALL MEET THE MINIMUM CLASS 1 SPECIFICATIONS OF SOCIETY OF AUTOMOTIVE ENGINEERS (SAE) STANDARD J595 (DIRECTIONAL FLASHING OPTICAL WARNING DEVICES FOR AUTHORIZED EMERGENCY, MAINTENANCE, AND SERVICE VEHICLES) DATED JANUARY, 2005.

F. TO MINIMIZE EXCESSIVE GLARE DURING NIGHTTIME CONDITIONS, AN AUTOMATIC SIGNAL DIMMING DEVICE SHALL BE USED TO REDUCE THE BRILLIANCE OF THE RRFB INDICATIONS.

G. AN LED PEDESTRIAN CONFIRMATION LIGHT DIRECTED AT AND VISIBLE TO PEDESTRIANS IN THE CROSSWALK SHALL BE INSTALLED INTEGRAL TO THE RRFB OR PUSHBUTTON TO GIVE CONFIRMATION THAT THE RRFB IS IN OPERATION.

H. THE PEDESTRIAN CONFIRMATION LIGHT SHALL HAVE A MINIMUM AREA OF 0.5 SQUARE INCHES AND BE CONSPICUOUS TO PEDESTRIANS AT ALL DISTANCES FROM THE BEGINNING OF THE CONTROLLED CROSSWALK TO A POINT 10 FEET FROM THE END OF THE CONTROLLED CROSSWALK DURING BOTH DAY AND NIGHT.

2. SIGNS

A. ALL SIGN ASSEMBLIES SHALL USE ANTI-VANDAL FASTENERS TO MOUNT COMPONENTS TO SIGN AND SIGN TO FIXTURE.

B. PEDESTRIAN PUSHBUTTONS SIGNS SHALL BE PROVIDED AND INCLUDE THE LEGEND "PUSH BUTTON TO TURN ON WARNING LIGHTS". SIGNS SHOULD BE MOUNTED ADJACENT TO OR INTEGRAL WITH EACH PEDESTRIAN PUSHBUTTON.

C. TWO SETS OF SIGNS SHALL BE REQUIRED PER UNIT FOR VIEW FROM EACH APPROACH.

D. ASSURE SIGN MEETS THE REQUIREMENTS OF C&MS 630.

3. CONTROL CIRCUIT

A. THE CONTROL CIRCUIT SHALL HAVE THE CAPABILITY OF INDEPENDENTLY FLASHING UP TO TWO INDEPENDENT OUTPUTS. THE LED LIGHT OUTPUTS AND FLASH PATTERN SHALL BE COMPLETELY PROGRAMMABLE.

B. THE CONTROL CIRCUIT SHALL BE SEALED WATERTIGHT TO ELIMINATE DIRT CONTAMINATION AND ALLOW FOR SAFE HANDLING IN ALL WEATHER CONDITIONS.

C. THE LEDS SHALL BE SEALED AGAINST DUST AND MOISTURE INTRUSION AS PER THE REQUIREMENTS OF NEMA STANDARD 250-1991 FOR TYPE 4 ENCLOSURE AND TO PROTECT ALL INTERNAL LED AND ELECTRICAL COMPONENTS.

ITEM 630 - SIGNING MISC.: SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY (CONT.)

4. BATTERY AND SOLAR PANELS

A. BATTERY UNIT SHALL BE A 12VDC, 35 AHR MINIMUM, SEALED GEL OR AGM LEAD ACID BATTERY. BATTERIES SHALL HAVE A WRITTEN TWO YEAR FULL REPLACEMENT WARRANTY.

B. THE SOLAR PANEL SHALL PROVIDE A MINIMUM OF 40 WATTS PEAK TOTAL OUTPUT.

C. THE SOLAR PANEL SHALL BE MOUNTED TO AN ALUMINUM PLATE AND BRACKET AT AN ANGLE OF 45 DEGREES - 60 DEGREES TO PROVIDE MAXIMUM OUTPUT.

D. ALL FASTENERS USED SHALL BE ANTI-VANDAL.

5. WIRELESS RADIO

A. RADIO CONTROL SHALL OPERATE ON A 900 MHZ FREQUENCY HOPPING SPREAD SPECTRUM NETWORK, WI-FI OR APPROVED EQUAL.

B. RADIO SHALL INTEGRATE COMMUNICATION OF RRFB CONTROL CIRCUIT TO ACTIVATE SIGN FROM PUSHBUTTON INPUT.

C. THE RADIO SHALL BE SYNCHRONIZED SO ALL OF THE REMOTE RRFB LIGHT INDICATIONS WILL TURN ON WITHIN 120 MSEC OF EACH OTHER AND REMAIN SYNCHRONIZED THROUGH-OUT THE DURATION OF THE FLASHING CYCLE.

6. PUSHBUTTON

A. THE PUSHBUTTON SHALL BE CAPABLE OF CONTINUOUS OPERATION OVER A TEMPERATURE RANGE OF -30 DEGREES F TO +165 DEGREES F.

B. PUSHBUTTON SHALL BE ADA COMPLIANT.

7. PEDESTAL SHAFT AND BASE - MOUNT ON A STANDARD 4.5-INCH OD ALUMINUM PEDESTAL POLE WITH BREAKAWAY BASE. A 14 FOOT POLE SHALL BE PROVIDED AND FIELD ADJUSTED AND CAPPED TO MAINTAIN THE PROPER SIGN MOUNTING HEIGHTS, UNLESS SPECIFIED OTHERWISE IN THE PLANS. POLE AND BASE MANUFACTURER SHALL BE LISTED ON ODOT'S QUALIFIED PRODUCTS LIST.

CONSTRUCTION -

THE RRFB SHALL BE ASSEMBLED AND CONSTRUCTED BY THE CONTRACTOR AS SHOWN AND SPECIFIED ON THE PLANS.

WARRANTY -

WARRANTY SHALL BE TWO YEARS FROM THE DATE OF FINAL ACCEPTANCE.

MEASUREMENT -

THE DEPARTMENT WILL MEASURE THE ITEM COMPLETE IN PLACE, INCLUDING ALL MATERIALS, TESTING, LABOR AND SOFTWARE FOR A FULLY FUNCTIONAL UNIT.

PAYMENT -

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE PER EACH FOR ITEM 630 "SIGNING MISC.: SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY".

ITEM 630 - REMOVAL OF GROUND MOUNTED SIGN AND DELIVERY, AS PER PLAN

THE CONTRACTOR SHALL COORDINATE WITH THE FAMILY CHURCH FOR DELIVERY OF THE REMOVED PARKING SIGNS.

ITEM 630 - GROUND MOUNTED SUPPORT, NO. 2 POST, AS PER PLAN
ITEM 630 - GROUND MOUNTED SUPPORT, NO. 2 POST, AS PER PLAN

SIGN SUPPORT SHALL CONFORM TO SCD TC- 41.20, EXCEPT ONLY THE TYPE '"S" POSTS WITH ANCHOR BASES SHALL BE FURNISHED FOR THIS PROJECT. TYPE "F" AND TYPE "P" POSTS WILL NOT BE ACCEPTED.

TRAFFIC CONTROL NOTES

DESIGN AGENCY
OHM

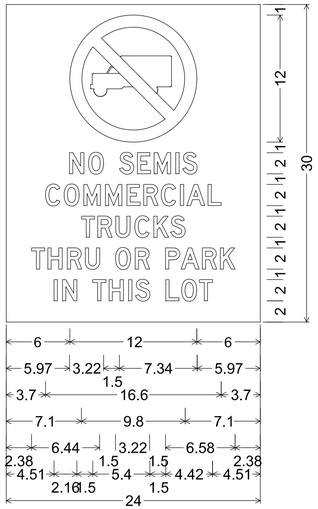
DESIGNER
BMM

REVIEWER
JWG 08/15/25

PROJECT ID
113650

SHEET P.76 TOTAL 101

ITEM 630 - SIGNING MISC.: SPECIAL



No border, Black on White;
"NO", D 2K; "SEMIS", D 2K;
"COMMERCIAL", D 2K;
"TRUCKS", D 2K;
"THRU", D 2K; "OR", D 2K;
"PARK", D 2K; "IN", D 2K;
"THIS", D 2K; "LOT", D 2K;
Table of widths and spaces

6.00	12.00	6.00

5.97	N 1.36	0.44	O 1.42

	1.50	S 1.36	0.34	E 1.24	0.34	M 1.56	0.48	I 0.32	0.34	S 1.36	5.97

3.70	C 1.36	0.40	O 1.42	0.44	M 1.56	0.48	M 1.56	0.48	E 1.24	0.34	R 1.36	0.30	C 1.36	0.44	I 0.32	0.30	A 1.70	0.30	L 1.24	3.70

7.10	T 1.24	0.30	R 1.36	0.34	U 1.36	0.44	C 1.36	0.44	K 1.40	0.20	S 1.36	7.10

2.38	T 1.24	0.30	H 1.36	0.48	R 1.36	0.34	U 1.36

1.50	O 1.42	0.44	R 1.36

1.50	P 1.36	0.12	A 1.70	0.30	R 1.36	0.34	K 1.40	2.38

4.51	I 0.32	0.48	N 1.36

1.50	T 1.24	0.30	H 1.36	0.48	I 0.32	0.34	S 1.36

1.50	L 1.24	0.26	O 1.42	0.26	T 1.24	4.51

TRAFFIC CONTROL DETAILS

DESIGN AGENCY
OHM

DESIGNER
BMM

REVIEWER
JWG 08/15/25

PROJECT ID
113650

SHEET P.77 TOTAL 101

MODEL: Special Signs PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:28:53 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Fairfield\113650\401-Engineering_OHMAdvisors\Traffic\Sheets\113650_TD001.dgn

REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 GROUND MOUNTED SUPPORT, NO. 2 POST, AS PER PLAN FT	630 GROUND MOUNTED SUPPORT, NO. 3 POST, AS PER PLAN FT	630 ONE WAY SUPPORT, NO. 4 POST FT	630 SIGN, FLAT SHEET SF	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION EACH	630 REMOVAL OF GROUND MOUNTED SIGN AND DELIVERY, AS PER PLAN EACH	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL EACH	630 SIGNING, MISC.:SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY EACH
R-1	P.82	S.R. 204	424+66	LT.							2			1	
R-2	P.82	S.R. 204	424+66	RT.							3			1	
R-3	P.83	S.R. 204	429+19	LT.							2			1	
R-4	P.83	S.R. 204	429+82	RT.							1			1	
R-5	P.83	S.R. 204	430+05	LT.							1			1	
R-6	P.83	S.R. 204	430+35	LT.							1			1	
R-7	P.83	S.R. 204	431+19	RT.							2			1	
R-8	P.84	S.R. 204	433+06	RT.							1			1	
R-9	P.84	S.R. 204	436+42	RT.							2			1	
R-10	P.84	S.R. 204	436+43	LT.							3			1	
R-11	P.85	TOLL GATE RD.	306+45	RT.							1			1	
R-12	P.85	TOLL GATE RD.	306+46	LT.							1			1	
R-13	P.85	TOLL GATE RD.	309+71	RT.								1		1	
R-14	P.85	TOLL GATE RD.	309+74	LT.							1			1	
R-15	P.83	TOLL GATE RD.	310+10	LT.							1	1		1	
R-16	P.83	TOLL GATE RD.	310+45	RT.									1	1	
R-17	P.83	TOLL GATE RD.	310+47	RT.									1	1	
R-18	P.83	TOLL GATE RD.	310+95	LT.								1		1	
R-19	P.83	TOLL GATE RD.	311+04	RT.									1	1	
R-20	P.83	TOLL GATE RD.	311+05	RT.									1	1	
R-21	P.83	TOLL GATE RD.	311+45	LT.							1			1	
R-22	P.83	TOLL GATE RD.	312+56	LT.							1	1		1	
R-23	P.83	TOLL GATE RD.	429+50	LT.							1			1	
R-24	P.83	TOLL GATE RD.	429+53	RT.							1			1	
R-25	P.86	TOLL GATE RD.	319+57	RT.								1			
R-26	P.86	TOLL GATE RD.	319+59	RT.								1			
S-1	P.82	S.R. 204	426+05	LT.	W2-6-30	30X30			16.4	6.3					
					W16-H8P-48	48X8				2.7					
					W13-1P-18	18X18				2.3					
S-2	P.82	S.R. 204	426+05	RT.	W2-6-30	30X30			16.4	6.3					
					W16-H8P-48	48X8				2.7					
					W13-1P-18	18X18				2.3					
S-3	P.82	S.R. 204	428+09	LT.	M3-4-24	24X12	11.5			2.0					
					M1-4-3-30	30X24				5.0					
S-14	P.83	S.R. 204	429+61	RT.	R4-7-24	24X30		15.2		5.0					
					OM1-1-18	18X18				2.3					
S-15	P.83	S.R. 204	430+00	RT.	R1-2-36	36X36		13.6		3.9					
					R6-5P-30	30X30				6.3					
S-16	P.83	S.R. 204	430+04	RT.	R1-2-36	36X36	13.1			3.9					
S-17	P.83	S.R. 204	430+05	LT.	M3-4-24	24X12		14.8		2.0					
					M1-4-3-30	30X24				5.0					
					M6-2R-21	21X15				2.2					
S-18	P.83	S.R. 204	430+47	RT.	R6-2R-24	24X30	13.0			5.0					
S-19	P.83	S.R. 204	431+97	LT.	R6-2R-24	24X30	13.0			5.0					
S-20	P.83	S.R. 204	431+42	RT.	M3-2-24	24X12		14.8		2.0					
					M1-4-3-30	30X24				5.0					
					M6-2R-21	21X15				2.2					
S-21	P.83	S.R. 204	431+43	LT.	R1-2-36	36X36	13.1			3.9					
S-22	P.83	S.R. 204	431+48	LT.	R1-2-36	36X36		13.6		3.9					
					R6-5P-30	30X30				6.3					
S-23	P.83	S.R. 204	432+79	LT.	R4-7-24	24X30		15.2		5.0					
					OM1-1-18	18X18				2.3					
TOTALS CARRIED TO GENERAL SUMMARY							63.7	87.2	32.8	100.3	26	6	4	24	

SIGNING SUBSUMMARY

DESIGN AGENCY

OHM

DESIGNER BMM

REVIEWER JWG 08/15/25

PROJECT ID 113650

SHEET P.78 TOTAL 101

FAI-204-04.30

REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 GROUND MOUNTED SUPPORT, NO. 2 POST, AS PER PLAN FT	630 GROUND MOUNTED SUPPORT, NO. 3 POST, AS PER PLAN FT	630 ONE WAY SUPPORT, NO. 4 POST FT	630 SIGN, FLAT SHEET SF	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION EACH	630 REMOVAL OF GROUND MOUNTED SIGN AND DELIVERY, AS PER PLAN EACH	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL EACH	630 SIGNING, MISC.:SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY EACH
S-35	P.84	S.R. 204	433+47	RT.	M3-2-24	24X12	11.5			2.0					
					M1-4-3-30	30X24				5.0					
S-36	P.84	S.R. 204	436+29	LT.	W2-6-30	30X30			16.4	6.3					
					W16-H8P-48	48X8				2.7					
					W13-1P-18	18X18				2.3					
S-37	P.84	S.R. 204	436+29	RT.	W2-6-30	30X30			16.4	6.3					
					W16-H8P-48	48X8				2.7					
					W13-1P-18	18X18				2.3					
S-48	P.85	TOLL GATE RD.	305+25	LT.	W2-6-30	30X30			17.7	6.3					
					W16-H8P-48	48X8				2.7					
					W13-1P-18	18X18				2.3					
S-49	P.85	TOLL GATE RD.	305+25	RT.	W2-6-30	30X30			17.7	6.3					
					W16-H8P-48	48X8				2.7					
					W13-1P-18	18X18				2.3					
S-50	P.85	TOLL GATE RD.	308+75	RT.	SPECIAL		11.0								
S-51	P.85	TOLL GATE RD.	309+47	LT.	R4-7-24	24X30		15.2		5.0					
					OM1-1-18	18X18				2.3					
S-52	P.85	TOLL GATE RD.	309+83	RT.	W11-2-36										
					W11-2-36										
					W16-7PL-24										
					W16-7PR-24										
S-53	P.85	TOLL GATE RD.	309+95	LT.	W11-2-36										
					W11-2-36										
					W16-7PL-24										
					W16-7PR-24										1
S-63	P.83	TOLL GATE RD.	310+34	LT.	R4-7-24	24X30		15.2		5.0					
					OM1-1-18	18X18				2.3					
S-64	P.83	TOLL GATE RD.	310+57	RT.	SPECIAL		11.0								1
S-65	P.83	TOLL GATE RD.	310+88	LT.	R4-7-24	24X30		15.2		5.0					
					OM1-1-18	18X18				2.3					
S-66	P.83	TOLL GATE RD.	311+10	LT.	SPECIAL				15.0						
					R2-1-24	24X30				5.0					
S-67	P.83	TOLL GATE RD.	311+41	RT.	R1-2-36	36X36		13.6		3.9					
					R6-5P-30	30X30				6.3					
S-68	P.83	TOLL GATE RD.	311+43	LT.	D1-1d-90	90X18	12.0 / 12.0			11.3					
S-69	P.83	TOLL GATE RD.	311+47	RT.	R1-2-36	36X36	13.1			3.9					
S-70	P.83	TOLL GATE RD.	311+93	RT.	R6-2R-24	24X30	13.0			5.0					
S-71	P.83	TOLL GATE RD.	312+41	LT.	R6-2R-24	24X30	13.0			5.0					
S-72	P.83	TOLL GATE RD.	312+87	LT.	R1-2-36	36X36	13.1			3.9					
S-73	P.83	TOLL GATE RD.	312+89	RT.	D1-1d-90	90X18	12.0 / 12.0			11.3					
S-74	P.83	TOLL GATE RD.	312+99	LT.	R1-2-36	36X36		13.6		3.9					
					R6-5P-30	30X30				6.3					
S-75	P.83	TOLL GATE RD.	313+40	RT.	SPECIAL				15.0						
					R2-1-24	24X30				5.0					
S-86	P.86	TOLL GATE RD.	313+80	LT.	R4-7-24	24X30		15.2		5.0					
					OM1-1-18	18X18				2.3					
S-87	P.86	TOLL GATE RD.	318+25	LT.	W2-6-30	30X30			17.7	6.3					
					W16-H8P-48	48X8				2.7					
					W13-1P-18	18X18				2.3					
S-88	P.86	TOLL GATE RD.	318+25	RT.	W2-6-30	30X30			17.7	6.3					
					W16-H8P-48	48X8				2.7					
					W13-1P-18	18X18				2.3					
TOTALS CARRIED TO GENERAL SUMMARY							133.7	88.0	133.6	173.7					2

SIGNING SUBSUMMARY

DESIGN AGENCY

OHM

DESIGNER
BMM

REVIEWER
JWG 08/15/25

PROJECT ID
113650

SHEET P.79 TOTAL 101

FAI-204-04.30

PAVEMENT MARKING SUBSUMMARY

REF NO.	SHEET NO.	STATION TO STATION	621 RPM,2-WAY (YELLOW/YELLOW) AT 80' CENTER LINE	621 RPM,2-WAY (YELLOW/RED) AT 20'	621 RPM,2-WAY (YELLOW/RED) AT 40'	621 RAISED PAVEMENT MARKER REMOVED	626 BARRIER REFLECTOR, TYPE 2	644 EDGE LINE, 6" (WHITE)	644 EDGE LINE, 6" (YELLOW)	644 CENTER LINE	644 CROSSWALK LINE, 24"	644 TRANSVERSE/DIAGONAL LINE (YELLOW)	644 TWO WAY LEFT TURN ARROW	644 DOTTED LINE, 12"	644 YIELD LINE
			EACH	EACH	EACH	EACH	EACH	MILE	MILE	MILE	FT	FT	EACH	FT	FT
		S.R. 204													
BRG-1	P.81	427+80 429+00					2								
BRG-2	P.81	427+80 429+00					2								
DY-1	P.81	427+80 429+00	2			3				0.023					
DY-2	P.81	428+65 429+00								0.007					
EW-1	P.81	427+80 428+25						0.009							
EW-2	P.81	427+80 428+25						0.009							
BRG-13	P.82	429+00 429+47					2								
BRG-14	P.82	429+00 429+24					1								
DY-13	P.82	429+00 429+41		3						0.008					
DY-14	P.82	429+00 429+41		3						0.008					
DY-15	P.82	432+85 433+00		1						0.003					
DY-16	P.82	432+85 433+00		1						0.003					
EY-1	P.82	429+41 430+09			2				0.013						
EY-2	P.82	429+41 430+10			2				0.013						
EY-3	P.82	431+35 432+85			4				0.028						
EY-4	P.82	431+37 432+85			4				0.028						
TY-1	P.82	429+00 429+41										15			
TY-2	P.82	432+85 433+00										11			
YL-1	P.82	430+00 430+09													18
YL-2	P.82	431+37 431+46													18
DY-27	P.83	433+00 434+48		6						0.028					
DY-28	P.83	433+00 434+54		7		6				0.029					
EW-13	P.83	433+85 434+54						0.013							
EW-14	P.83	434+21 434+54						0.006							
TY-13	P.83	433+00 434+48										42			
		TOLL GATE RD.													
CW-1	P.84	309+85 309+93									48				
DY-29	P.84	307+00 309+43		10						0.046					
DY-30	P.84	307+43 309+43		8						0.038					
EW-25	P.84	307+00 307+42						0.008							
EW-26	P.84	307+00 307+42						0.008							
EY-15	P.84	309+43 310+00			2				0.011						
EY-16	P.84	309+43 310+00			2				0.011						
TY-24	P.84	307+43 309+43										94			
CSD-1	P.82	310+37 310+84			2					0.009					
CSD-2	P.82	310+38 310+84			2					0.009					
EY-27	P.82	310+00 310+37			2				0.007						
EY-28	P.82	310+00 310+38			2				0.007						
EY-29	P.82	310+84 311+55			2				0.013						
EY-30	P.82	310+84 311+53			2				0.013						
EY-31	P.82	312+79 313+50			2				0.013						
EY-32	P.82	312+82 313+50			2				0.013						
LA-1	P.82	310+61											1		
YL-3	P.82	311+46 311+53													17
YL-4	P.82	311+82 311+91													18
DY-41	P.85	313+82 315+78		7						0.037					
DY-42	P.85	313+82 316+51		9						0.051					
EW-37	P.85	315+91 316+51						0.011							
EW-38	P.85	315+91 316+51						0.011							
EY-43	P.85	313+50 313+82			1				0.006						
EY-44	P.85	313+50 313+82			1				0.006						
TY-35	P.85	313+82 315+78										48			
SUBTOTAL			2	55	34			0.075	0.182						
TOTALS CARRIED TO GENERAL SUMMARY				91		9	7	0.26		0.30	48	210	1		71

FAI-204-04.30

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DESIGN AGENCY
OHM

DESIGNER
BMM

REVIEWER
JWG 08/15/25

PROJECT ID
113650

SHEET P.80 TOTAL 101

REF NO.	SHEET NO.	STATION TO STATION	621 RPM,2-WAY (YELLOW/YELLOW) AT 80' CENTER LINE	621 RPM,2-WAY (YELLOW/RED) AT 20'	621 RPM,2-WAY (YELLOW/RED) AT 40'	621 RAISED PAVEMENT MARKER REMOVED	626 BARRIER REFLECTOR, TYPE 2	644 EDGE LINE, 6" (WHITE)	644 EDGE LINE, 6" (YELLOW)	644 CENTER LINE	644 CROSSWALK LINE, 24"	644 TRANSVERSE/DIAGONAL LINE (YELLOW)	644 TWO WAY LEFT TURN ARROW	644 DOTTED LINE, 12"	644 YIELD LINE
			EACH	EACH	EACH	EACH	EACH	MILE	MILE	MILE	FT	FT	EACH	FT	FT
		ROUNDABOUT													
DL-1	P.82	101+17 101+56												40	
DL-2	P.82	102+22 102+62												43	
DL-3	P.82	103+07 103+47												40	
DL-4	P.82	104+06 100+37												39	
EW-49	P.82	100+86 101+17			2			0.006							
EW-50	P.82	101+95 102+22			2			0.005							
EW-51	P.82	102+79 103+07			2			0.005							
EW-52	P.82	103+75 104+06			2			0.006							
SUBTOTAL			0	0	8			0.022							
TOTALS CARRIED TO GENERAL SUMMARY				8				0.02						162	

PAVEMENT MARKING SUBSUMMARY

DESIGN AGENCY

OHM

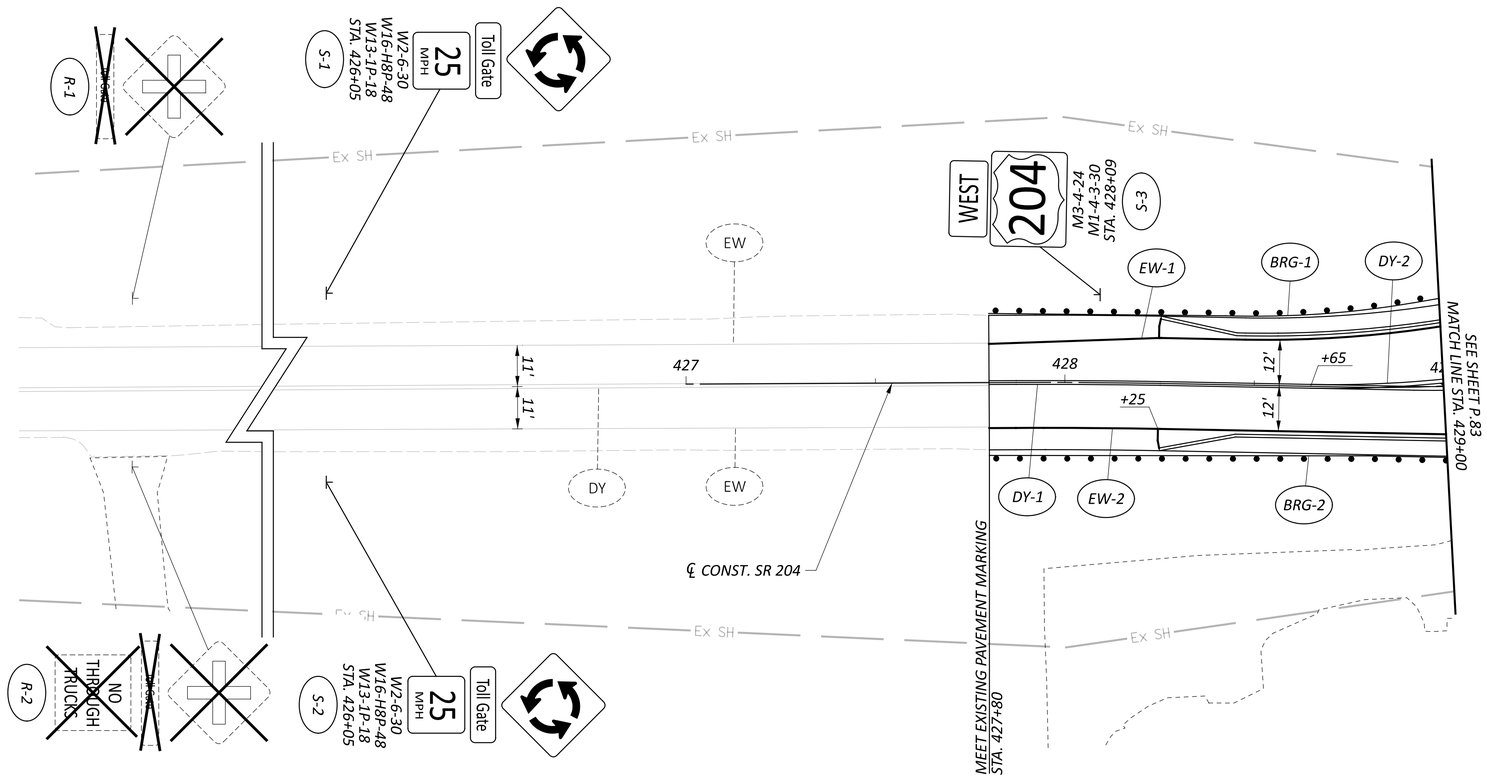
DESIGNER
BMM

REVIEWER
JWG 08/15/25

PROJECT ID
113650

SHEET P.81 TOTAL 101

FAI-204-04.30



TRAFFIC CONTROL LEGEND

BRG	BARRIER REFLECTOR, TYPE 2 (GUARDRAIL)	EW	EDGE LINE, 6" (WHITE)		EX. SIGN TO BE REMOVED
CSD	CENTER LINE, DASHED/SOLID	EY	EDGE LINE, 6" (YELLOW)		EX. SIGN TO REMAIN
CW	CROSSWALK LINE, 24"	LA	LANE ARROW		PROP. SIGN
DL	DOTTED LINE, 12" (WHITE)	TY	TRANSVERSE/DIAGONAL LINE, 24" (YELLOW)		
DY	CENTER LINE, DOUBLE SOLID	YL	YIELD LINE		

HORIZONTAL SCALE IN FEET
0 10 20 40

TRAFFIC CONTROL PLAN - SR 204
BEGIN TO STA. 429+00

DESIGN AGENCY
OHM

DESIGNER
LMP

REVIEWER
JWG 08/15/25

PROJECT ID
113650

SHEET P.82 TOTAL 101

FAI-204-04.30

MODEL: CLP_204 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:29:31 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
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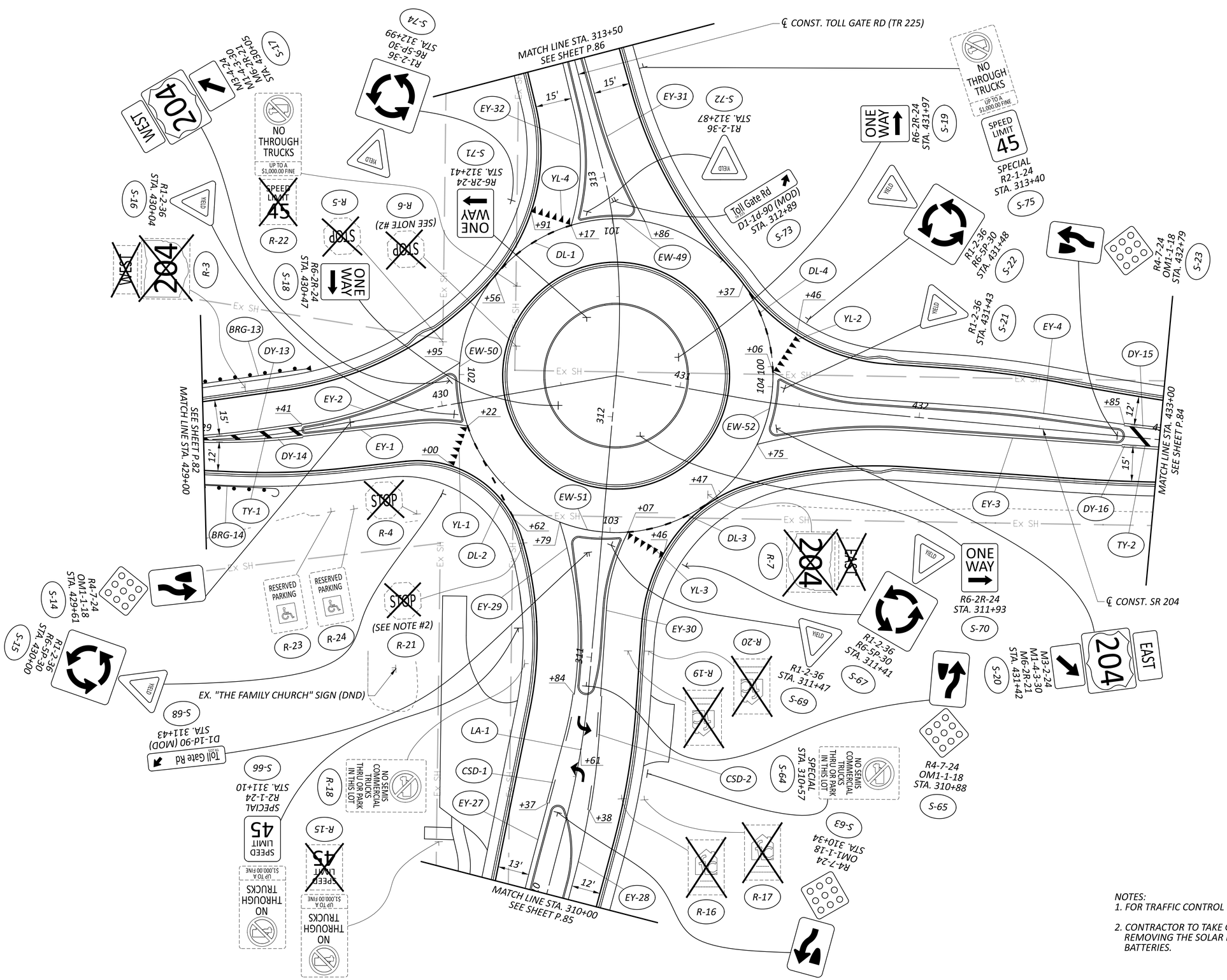

HORIZONTAL SCALE IN FEET
0 10 20 40

TRAFFIC CONTROL PLAN - SR 204 AND TOLL GATE ROAD
STA. 429+00 TO STA. 433+00

NOTES:
1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET P.82
2. CONTRACTOR TO TAKE GREAT CARE WHEN REMOVING THE SOLAR PANELS, WIRING, AND BATTERIES.

DESIGN AGENCY
OHM

DESIGNER
LMP

REVIEWER
JWG 08/15/25

PROJECT ID
113650

SHEET P.83 TOTAL 101

FAI-204-04.30

MODEL: CLP_204 - Plan 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:29:36 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
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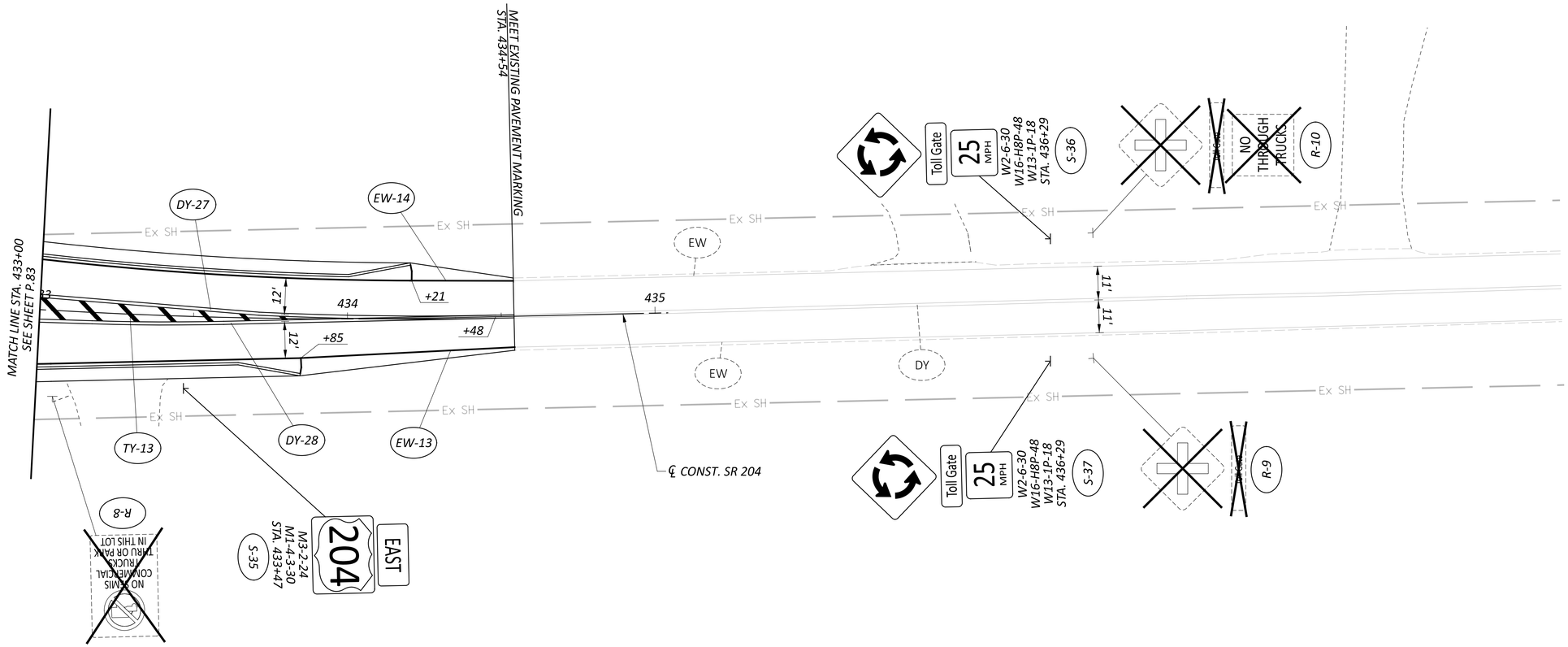

NOTES:
1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET P.82

HORIZONTAL SCALE IN FEET
0 10 20 40

TRAFFIC CONTROL PLAN - SR 204
STA. 433+00 TO END

DESIGN AGENCY
OHM

DESIGNER
LMP

REVIEWER
JWG 08/15/25

PROJECT ID
113650

SHEET P.84 TOTAL 101

FAI-204-04.30

MODEL: CLP_204 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:29:40 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
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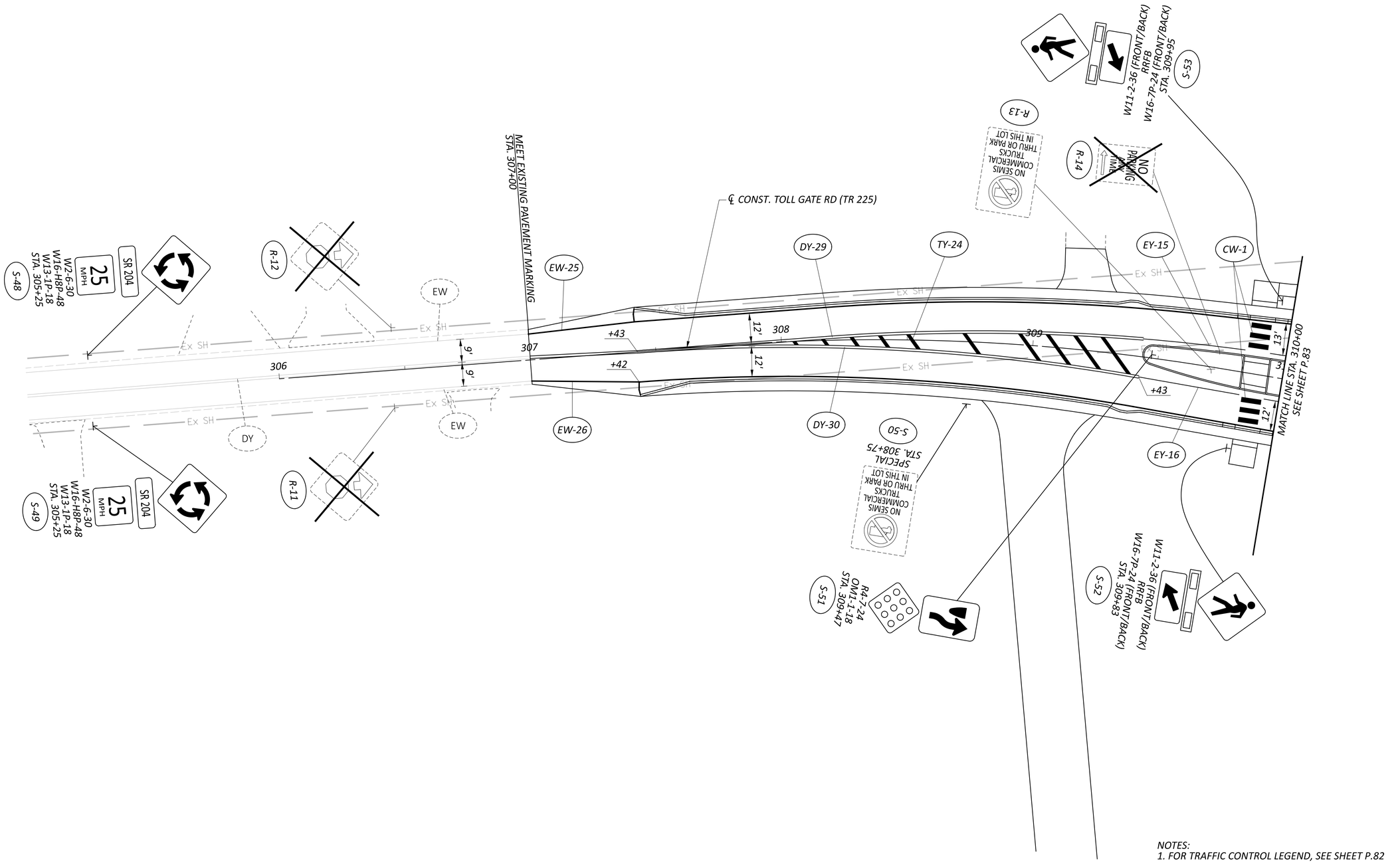


NOTES:
1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET P.82

HORIZONTAL SCALE IN FEET
0 10 20 40

TRAFFIC CONTROL PLAN - TOLL GATE ROAD
BEGIN TO STA. 310+00

DESIGN AGENCY
OHM

DESIGNER
LMP

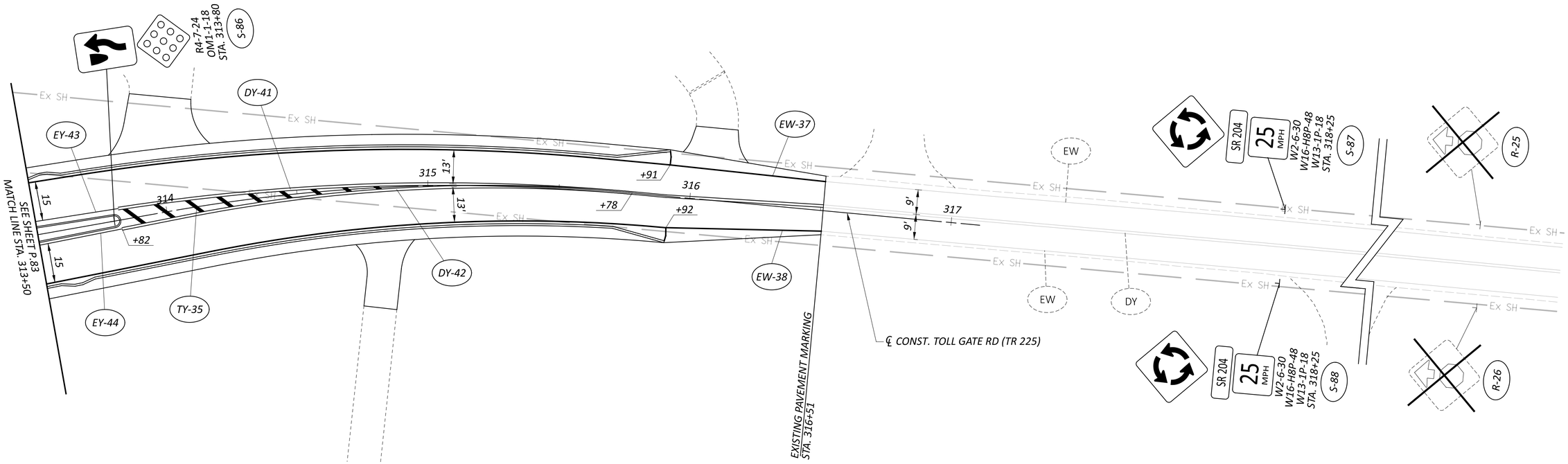
REVIEWER
JWG 08/15/25

PROJECT ID
113650

SHEET P.85 TOTAL 101

FAI-204-04.30

MODEL: CLP_TollGate - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:29:42 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Fairfield\113650\401-Engineering_OHMAdvisors\Traffic\Sheets\113650_TP001.dgn



HORIZONTAL SCALE IN FEET
0 10 20 40

TRAFFIC CONTROL PLAN - TOLL GATE ROAD
STA. 313+50 TO END

NOTES:
1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET P.82

DESIGN AGENCY
OHM

DESIGNER
LMP

REVIEWER
JWG 08/15/25

PROJECT ID
113650

SHEET P.86 TOTAL 101

FAI-204-04.30

MODEL: CLP_TollGate - Plan 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:29:44 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
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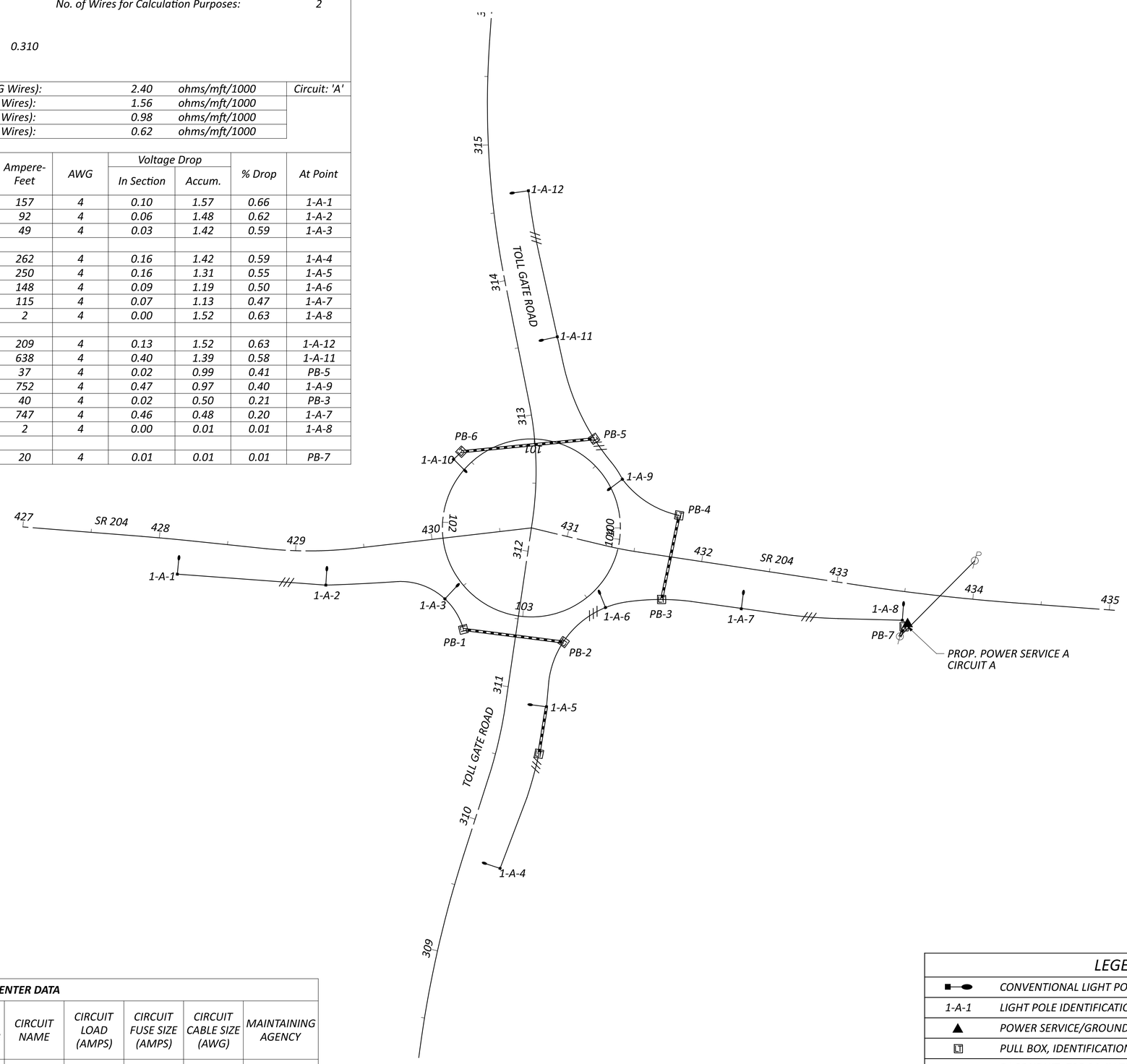
VOLTAGE DROP CALCULATIONS

County-Route-Section: FAI-204 — No. of Wires for Calculation Purposes: 2
Power Service: 120/240V Circuit: A
Supply Voltage: 240
Wire Resistance Used: No. 4 AWG. 0.310
No. 4 AWG.

Voltage: 240 — Circuit: 'A'

Wire Factor Used (Two - No. 10 AWG Wires):	2.40	ohms/mft/1000
Wire Factor Used (Two - No. 8 AWG Wires):	1.56	ohms/mft/1000
Wire Factor Used (Two - No. 6 AWG Wires):	0.98	ohms/mft/1000
Wire Factor Used (Two - No. 4 AWG Wires):	0.62	ohms/mft/1000

Section			Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point
From	To	Design Feet	At Point	Accum.			In Section	Accum.		
1-A-1	1-A-2	154	0.340	1.020	157	4	0.10	1.57	0.66	1-A-1
1-A-2	1-A-3	135	0.340	0.680	92	4	0.06	1.48	0.62	1-A-2
1-A-3	PB-2	145	0.340	0.340	49	4	0.03	1.42	0.59	1-A-3
1-A-4	1-A-5	154	0.340	1.700	262	4	0.16	1.42	0.59	1-A-4
1-A-5	1-A-6	184	0.340	1.360	250	4	0.16	1.31	0.55	1-A-5
1-A-6	1-A-7	145	0.340	1.020	148	4	0.09	1.19	0.50	1-A-6
1-A-7	1-A-8	169	0.340	0.680	115	4	0.07	1.13	0.47	1-A-7
1-A-8	PB-7	7	0.340	0.340	2	4	0.00	1.52	0.63	1-A-8
1-A-12	1-A-11	154	0.340	1.360	209	4	0.13	1.52	0.63	1-A-12
1-A-11	PB-5	125	0.340	5.100	638	4	0.40	1.39	0.58	1-A-11
PB-5	1-A-9	36	0.340	1.020	37	4	0.02	0.99	0.41	PB-5
1-A-9	PB-3	158	0.340	4.760	752	4	0.47	0.97	0.40	1-A-9
PB-3	1-A-7	59	0.340	0.680	40	4	0.02	0.50	0.21	PB-3
1-A-7	1-A-8	169	0.340	4.420	747	4	0.46	0.48	0.20	1-A-7
1-A-8	PB-7	7	0.340	0.340	2	4	0.00	0.01	0.01	1-A-8
PB-7	PS-A	5	0.000	4.080	20	4	0.01	0.01	0.01	PB-7



CONTROL CENTER DATA									
CONTROL CENTER	LINE VOLTAGE, PHASE	CONNECTED LOAD (KVA)	ENCLOSURE RATING (AMPS)	SERVICE ENTRANCE CONDUCTOR SIZE (AWG)	CIRCUIT NAME	CIRCUIT LOAD (AMPS)	CIRCUIT FUSE SIZE (AMPS)	CIRCUIT CABLE SIZE (AWG)	MAINTAINING AGENCY
PS-A	120/240V	0.972	60	2	A	4.05	20	4	ODOT

LEGEND

	CONVENTIONAL LIGHT POLE W/ 240V TYPE III LED LUMINAIRE
1-A-1	LIGHT POLE IDENTIFICATION NO.
▲	POWER SERVICE/GROUND MOUNTED CONTROL CENTER
	PULL BOX, IDENTIFICATION NO.
	3" CONDUIT, 725.04, IN TRENCH
	DUCT CABLE (THREE #4 AWG 2400V CABLES)

HORIZONTAL SCALE IN FEET
0 20 40 80

CIRCUIT SCHEMATIC

DESIGN AGENCY
WOOLPERT

DESIGNER KWA
REVIEWER JTB 08/15/25
PROJECT ID 113650
SHEET P.87 TOTAL 101

FAI-204-04.30

625, POWER SERVICE, AS PER PLAN

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

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

POWER COMPANY SOUTH CENTRAL POWER COMPANY

ADDRESS 720 MILL PARK DRIVE, LANCASTER, OH 43130

PHONE # (800) 282-5064

CONTACT NAME ENGCOORD@SOUTHCENTRALPOWER.COM

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 C&MS ITEM 625, "POWER SERVICE, AS PER PLAN" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

PADLOCKS AND KEYS

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

ARC FLASH CALCULATIONS AND LABELS

THIS ITEM OF WORK SHALL CONSIST OF PERFORMING ARC FLASH CALCULATIONS AND APPLYING AN EXTERNAL LABEL AS DESCRIBED IN THE SUPPLEMENTAL SPECIFICATION 825. HIS WORK SHALL BE PERFORMED FOR EACH DISCONNECT SWITCH. THE LABEL USED SHALL BE ODOT VERSION A (PREFERRED). THE FOLLOWING CONTROL CENTERS SHALL HAVE THE CALCULATIONS PERFORMED AND LABELS APPLIED:

PS-A - CIRCUIT"A"

PAYMENT FOR ITEM 625 ARC FLASH CALCULATIONS AND LABEL SHALL BE MADE FOR EACH LOCATION AND SHALL BE FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK.

THE FOLLOWING ESTIMATED QUANTITIES IS CARRIED TO: P.94

ITEM 625 - ARC FLASH CALCULATION AND LABEL, PS-A 1 EACH

ITEM 625 - LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), 240V, TYPE III, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 625, LUMINAIRES FOR CONVENTIONAL LIGHTING UNITS SHALL BE AS FOLLOWS:

LUMINAIRES FOR CONVENTIONAL LIGHTING UNITS SHALL BE ONE OF THE FOLLOWING:

1. AMERICAN ELECTRIC LIGHTING ATBM-P50-MVOLT-R3-3K
2. COOPER-EATON-NAV-SA5B-730-U-SL3
3. GE EVOLVE-ERL2-0-19-C5-30
4. OR EQUAL, AS APPROVED BY THE ENGINEER AND LISTED IN ODOT'S APPROVED MATERIALS LIST FOR SS813

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH ITEM 625 - "LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), 240V, TYPE III, AS PER PLAN" 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.

ITEM 625 - TEMPORARY LIGHTING

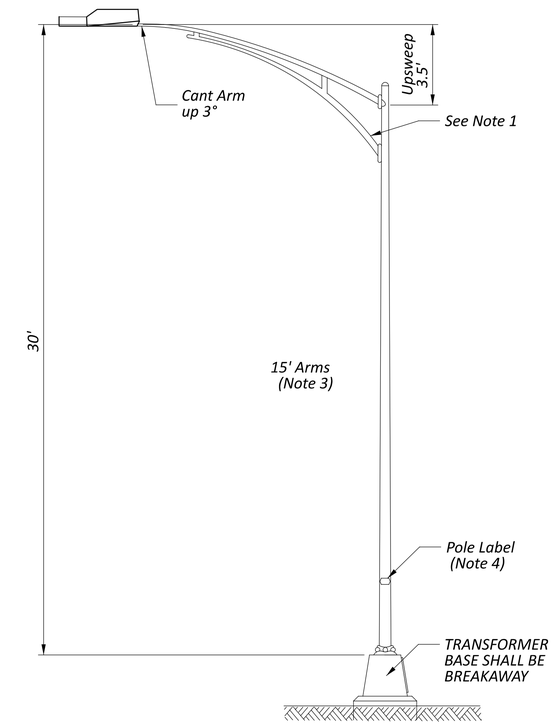
IF DELIVERY TIME OF PERMANENT LIGHTING POLES PREVENT FULLY OPENING THE ROUNDABOUT TO TRAFFIC, INSTALL TEMPORARY LIGHTING FROM SR 204 STA. 428+15 TO STA. 433+55 AND FROM TOLL GATE RD STA. 309+70 TO STA. 314+65. DESIGN THE TEMPORARY LIGHTING TO MAINTAIN A MINIMUM ILLUMINANCE OF 1.2 fc ON THE PROPOSED PAVEMENT WITH A MAX TO MIN. RATIO OF 10:1 AND AN AVERAGE TO MIN. RATIO OF 3:1. SUBMIT LIGHTING DESIGN CALCULATIONS AND WORKING DRAWINGS OF THE TEMPORARY LIGHTING TO THE ENGINEER FOR REVIEW.

ARRANGE FOR ELECTRICAL SERVICE FROM SOUTH CENTRAL POWER COMPANY AND PAY ELECTRICAL CHARGES. MAINTAIN TEMPORARY LIGHTING UNTIL PERMANENT LIGHTING IS INSTALLED AND FULLY FUNCTIONAL.

PAYMENT FOR TEMPORARY LIGHTING INCLUDES ALL LABOR, EQUIPMENT, MATERIALS, ELECTRICAL ENERGY AND PAYMENT OF FEES AND POWER COMPANY CHARGES NECESSARY TO ARRANGE AND INSTALL THE ELECTRICAL SERVICE, AND TO ERECT, MAINTAIN, OPERATE, AND REMOVE THE LIGHTING.

THE FOLLOWING ESTIMATED QUANTITIES IS CARRIED FORWARD TO THE GENERAL SUMMARY

ITEM 625 - TEMPORARY LIGHTING LS



TRUSS ARM LOW RISE

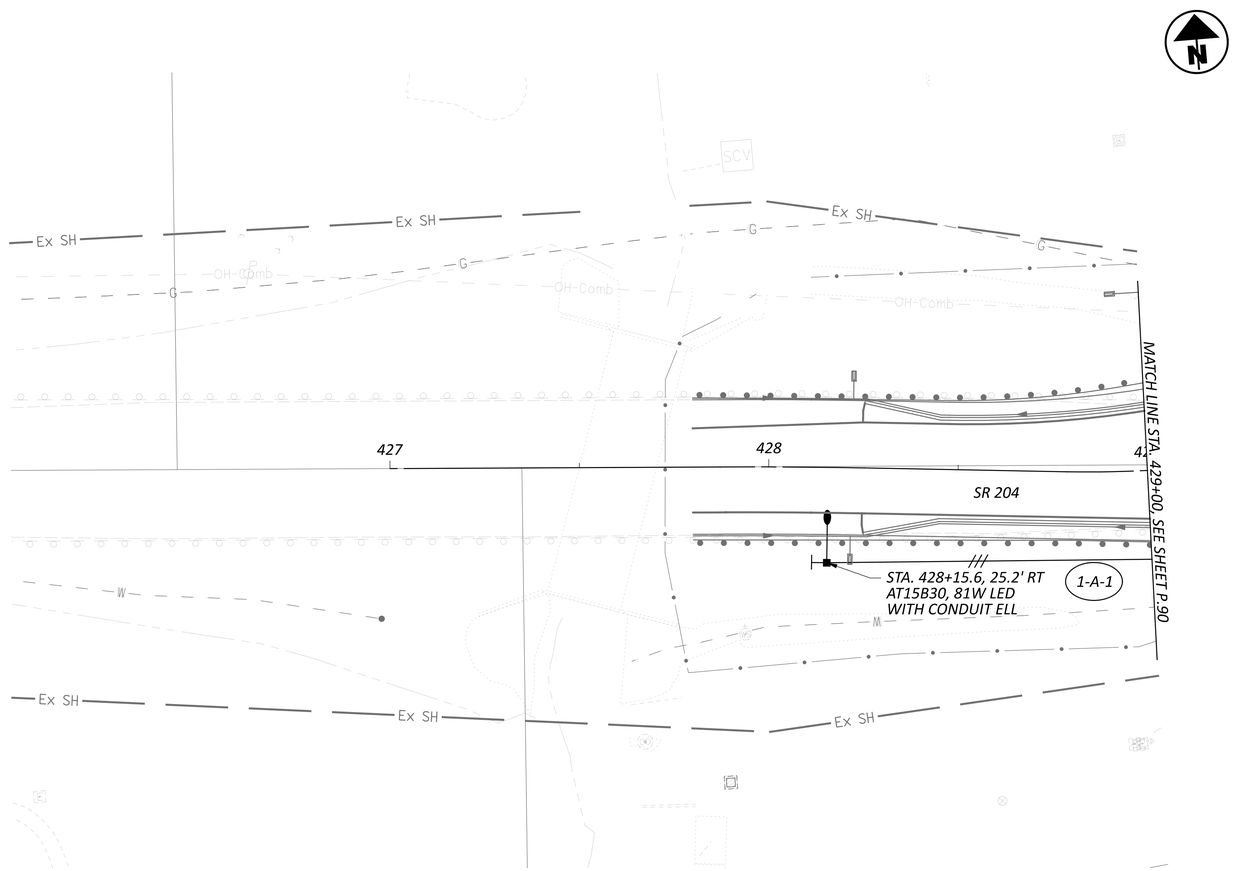
NOTES:

1. TRUSS ARMS SHOWN ARE SCHEMATIC. ACTUAL TRUSS ARM CONSTRUCTION MAY VARY SLIGHTLY DEPENDING UPON MANUFACTURER (E.G., STRAIGHT VS. CURVED LOWER-CHORDS).
2. DO NOT PROVIDE NUT COVERS FOR THE POLE BASE.
3. DO NOT EXCEED POLE MANUFACTURER'S RECOMMENDED HEIGHT/ARM LENGTH COMBINATION.
4. AFFIX STAMPED ALUMINUM POLE LABEL TO ALL POLES. INCLUDE POLE NUMBERING ("PS#-CIRCUIT"-"LETTER"-" POLE #", E.G. 1-A-1), MANUFACTURER, DATE OF MANUFACTURE (MO-YR), AND POLE HEIGHT.
5. ALL HL-10.11 POLES ARE OF ROUND CROSS SECTION WITH SMOOTH WALLS (NO FLUTES).

LIGHTING NOTES

DESIGN AGENCY
WOOLPERT

DESIGNER KWA
REVIEWER JTB 08/15/25
PROJECT ID 113650
SHEET P.88 TOTAL 101



LEGEND FOR ALL LIGHTING PLAN SHEETS		
EX.	PROP.	ITEM
		CONVENTIONAL LIGHT POLE W/ 240V TYPE III LED LUMINAIRE
	1-A-1	LIGHT POLE IDENTIFICATION NO.
		POWER SERVICE/GROUND MOUNTED CONTROL CENTER
	PB-#	PULL BOX, IDENTIFICATION NO.
		3" CONDUIT, 725.04, IN TRENCH
		DUCT CABLE (THREE #4 AWG 2400V CABLES)
		STUB CAP AND CONDUIT ELL
	E	POWER CABLE

HORIZONTAL SCALE IN FEET
0 10 20 40

LIGHTING PLAN - SR 204
BEGIN TO STA. 429+00.00

DESIGN AGENCY
WOOLPERT

DESIGNER
KWA

REVIEWER
JTB 08/15/25

PROJECT ID
113650

SHEET P.89 TOTAL 101

FAI-204-04.30

MODEL: CLP_208 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:30:45 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
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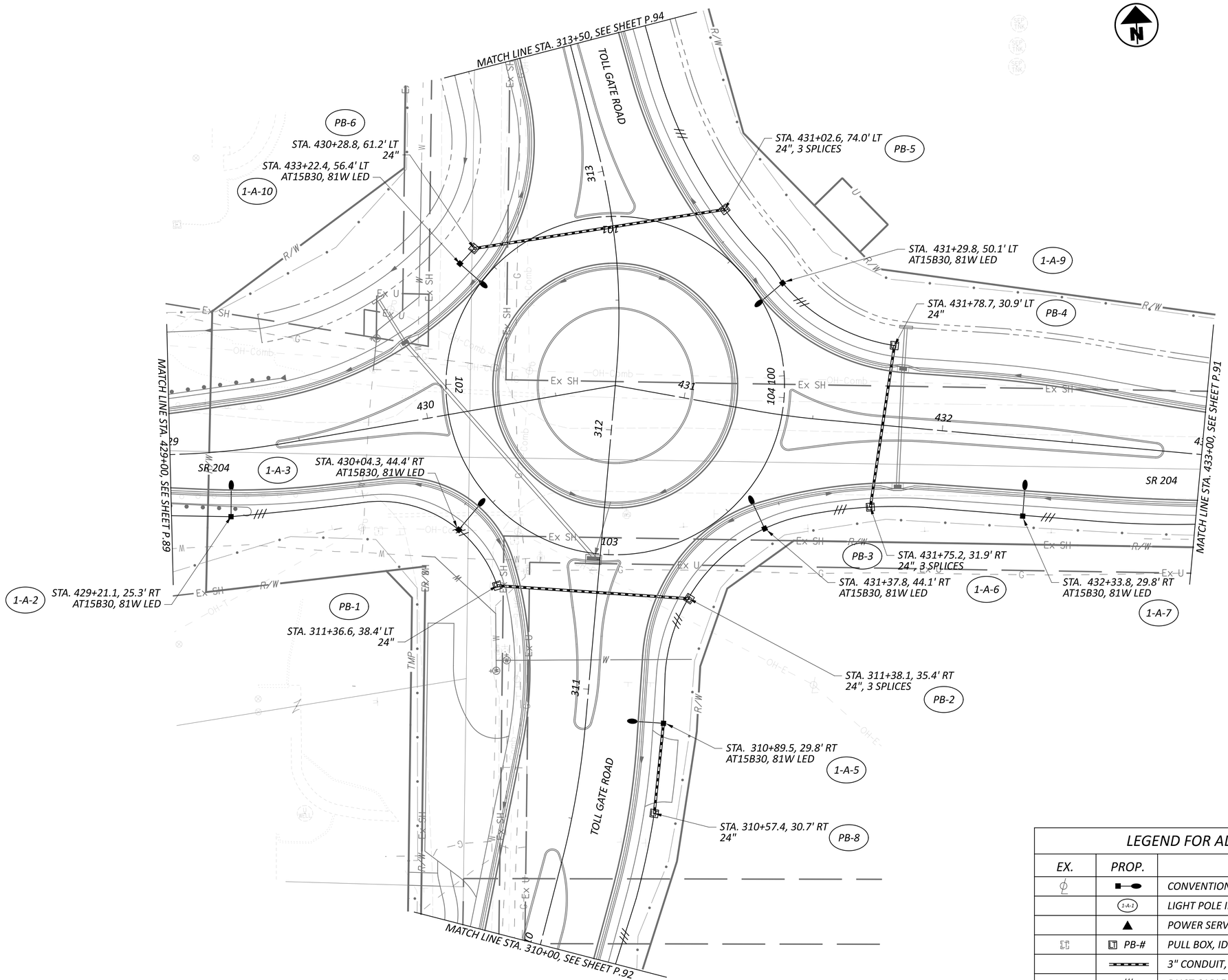

LEGEND FOR ALL LIGHTING PLAN SHEETS

EX.	PROP.	ITEM
		CONVENTIONAL LIGHT POLE W/ 240V TYPE III LED LUMINAIRE
	1-A-1	LIGHT POLE IDENTIFICATION NO.
	▲	POWER SERVICE/GROUND MOUNTED CONTROL CENTER
	PB-#	PULL BOX, IDENTIFICATION NO.
		3" CONDUIT, 725.04, IN TRENCH
		DUCT CABLE (THREE #4 AWG 2400V CABLES)
		STUB CAP AND CONDUIT ELL
	— E —	POWER CABLE

LIGHTING PLAN - SR 204 AND TOLL GATE ROAD
STA. 429+00.00 TO STA. 433+00.00

DESIGN AGENCY
WOOLPERT

DESIGNER
KWA

REVIEWER
JTB 08/15/25

PROJECT ID
113650

SHEET P.90 TOTAL 101

FAI-204-04.30

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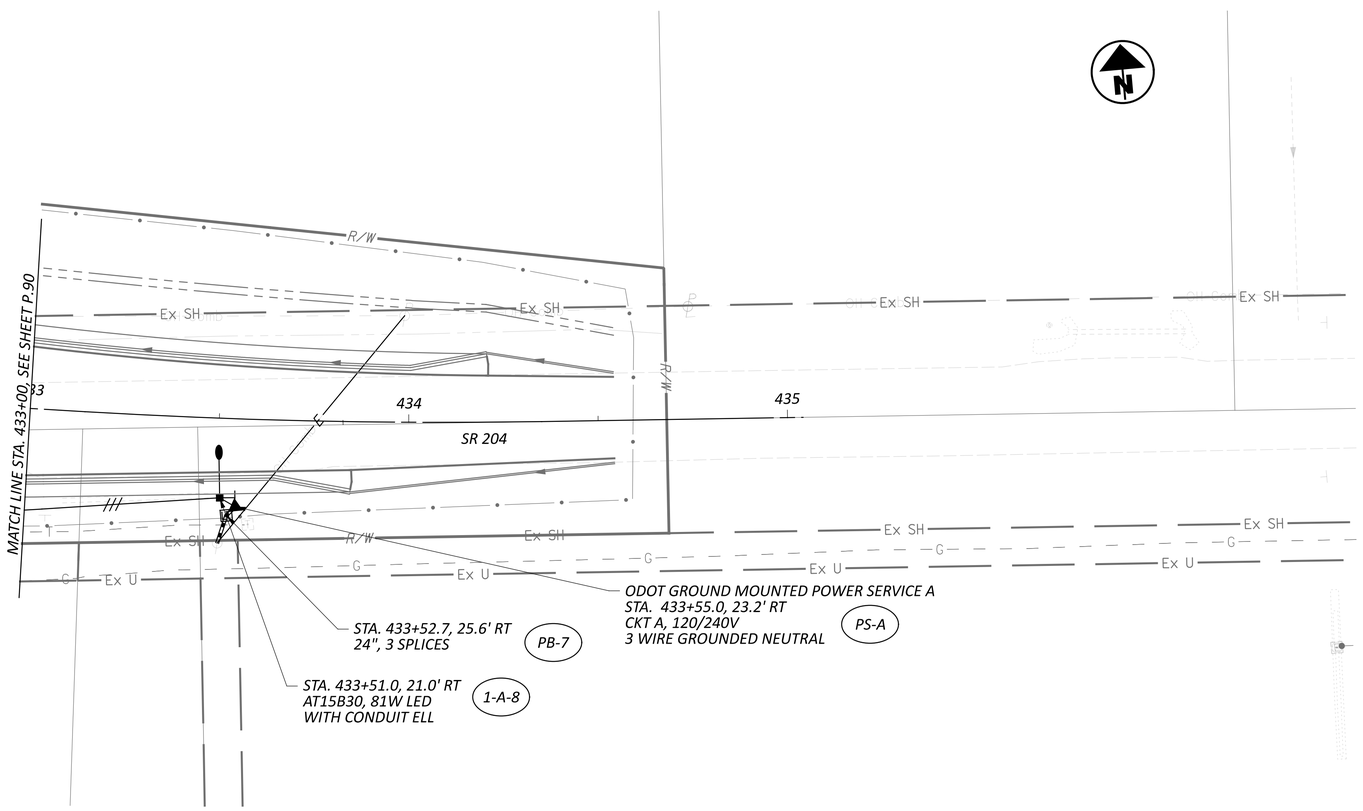

LEGEND FOR ALL LIGHTING PLAN SHEETS		
EX.	PROP.	ITEM
		CONVENTIONAL LIGHT POLE W/ 240V TYPE III LED LUMINAIRE
	1-A-1	LIGHT POLE IDENTIFICATION NO.
		POWER SERVICE/GROUND MOUNTED CONTROL CENTER
	PB-#	PULL BOX, IDENTIFICATION NO.
		3" CONDUIT, 725.04, IN TRENCH
		DUCT CABLE (THREE #4 AWG 2400V CABLES)
		STUB CAP AND CONDUIT ELL
	— E —	POWER CABLE

HORIZONTAL SCALE IN FEET
0 10 20 40

LIGHTING PLAN - SR 204
STA. 433+00.00 TO END

DESIGN AGENCY
WOOLPERT

DESIGNER
KWA

REVIEWER
JTB 08/15/25

PROJECT ID
113650

SHEET P.91 TOTAL 101

FAI-204-04.30

MODEL: CLP_210 - Plan 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:31:32 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
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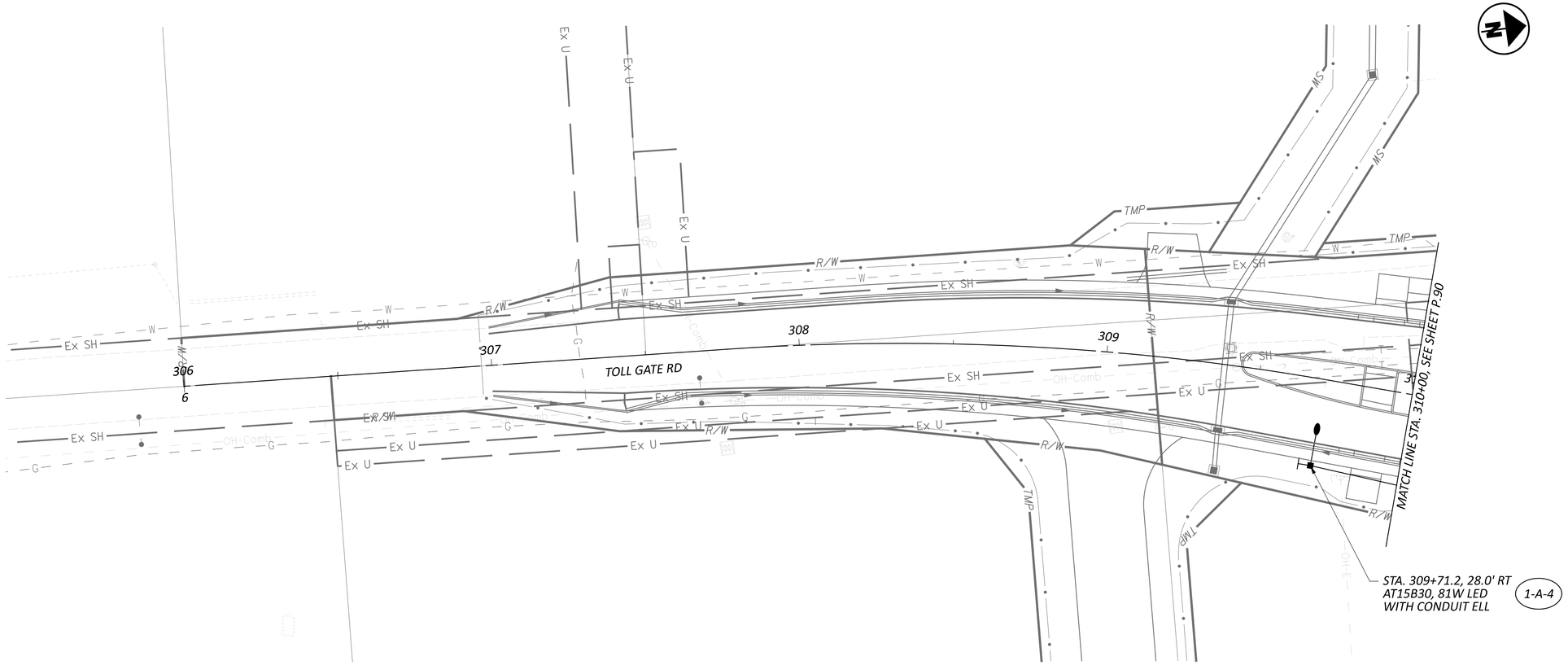

LEGEND FOR ALL LIGHTING PLAN SHEETS		
EX.	PROP.	ITEM
		CONVENTIONAL LIGHT POLE W/ 240V TYPE III LED LUMINAIRE
	1-A-1	LIGHT POLE IDENTIFICATION NO.
		POWER SERVICE/GROUND MOUNTED CONTROL CENTER
	PB-#	PULL BOX, IDENTIFICATION NO.
		3" CONDUIT, 725.04, IN TRENCH
		DUCT CABLE (THREE #4 AWG 2400V CABLES)
		STUB CAP AND CONDUIT ELL
	— E —	POWER CABLE

HORIZONTAL SCALE IN FEET
0 10 20 40

LIGHTING PLAN - TOLL GATE ROAD
BEGIN TO STA. 310+00.00

DESIGN AGENCY
WOOLPERT

DESIGNER
KWA

REVIEWER
JTB 08/15/25

PROJECT ID
113650

SHEET P.92 TOTAL 101

FAI-204-04.30

MODEL: CLP_TollGate - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:31:50 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
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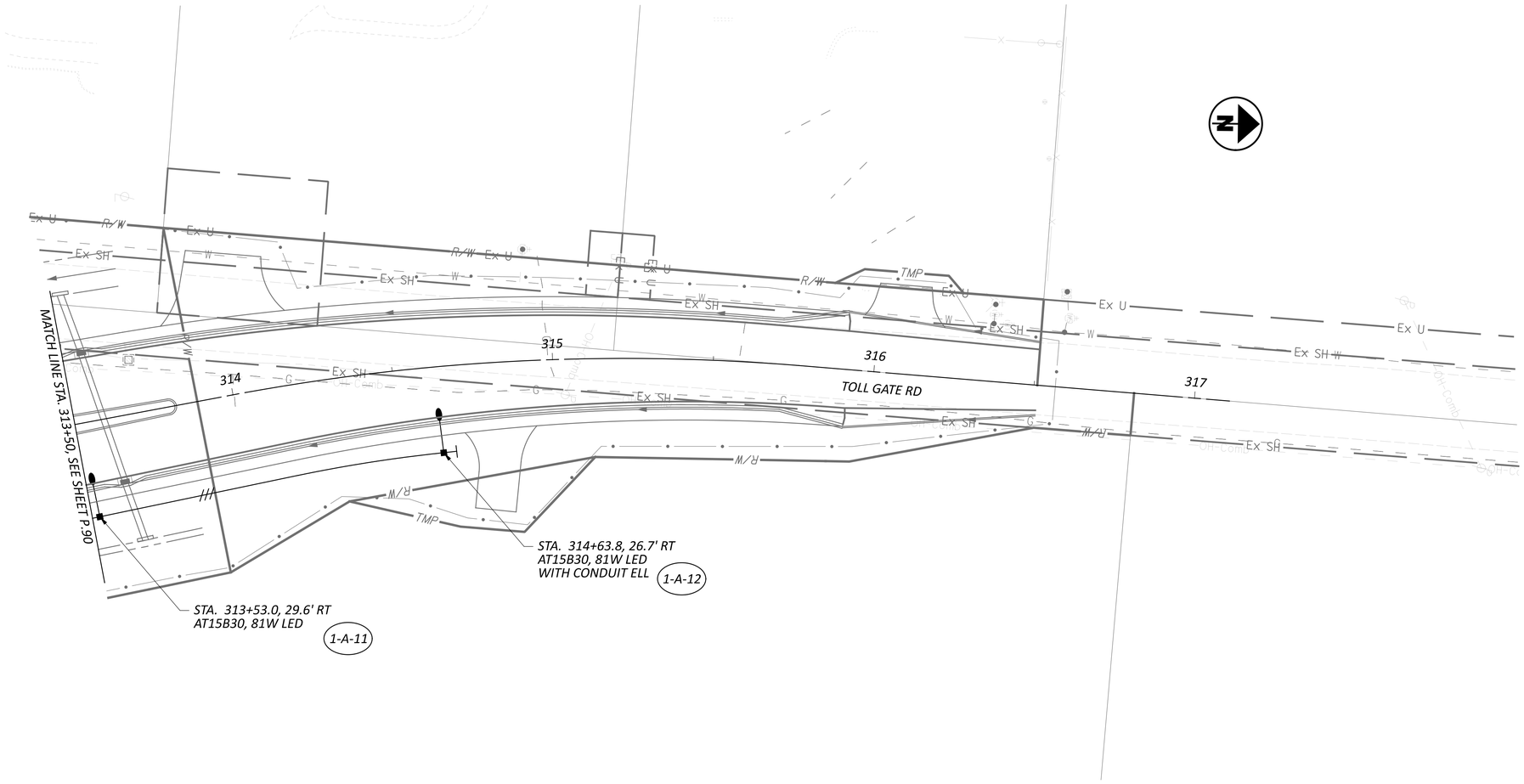

LEGEND FOR ALL LIGHTING PLAN SHEETS		
EX.	PROP.	ITEM
		CONVENTIONAL LIGHT POLE W/ 240V TYPE III LED LUMINAIRE
	1-A-1	LIGHT POLE IDENTIFICATION NO.
		POWER SERVICE/GROUND MOUNTED CONTROL CENTER
	PB-#	PULL BOX, IDENTIFICATION NO.
		3" CONDUIT, 725.04, IN TRENCH
		DUCT CABLE (THREE #4 AWG 2400V CABLES)
		STUB CAP AND CONDUIT ELL
	E	POWER CABLE

HORIZONTAL SCALE IN FEET
0 10 20 40

LIGHTING PLAN - TOLL GATE ROAD
STA. 313+50.00 TO END

DESIGN AGENCY
WOOLPERT

DESIGNER
KWA

REVIEWER
JTB 08/15/25

PROJECT ID
113650

SHEET P.94 TOTAL 101

FAI-204-04.30

MODEL: CLP_TollGate-1 - Plan 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:32:10 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTEvo2 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
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LIGHTING SUBSUMMARY

SHEET NO.	STATION FROM	STATION TO	SIDE	POLE/PULL BOX NO. FROM	POLE/PULL BOX NO. TO	625 CONNECTION, FUSED PULL APART EACH	625 CONNECTION, UNFUSED, PERMANENT EACH	625 LIGHT POLE, CONVENTIONAL, AT15B30 EACH					625 LIGHT POLE FOUNDATION, 24" x 8' DEEP EACH	625 NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE FT		625 NO. 10 AWG POLE AND BRACKET CABLE FT		625 1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES FT	625 CONDUIT, 3", 725.04 FT		625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), 240V, TYPE III, AS PER PLAN EACH	625 TRENCH, 24" DEEP FT		625 PULL BOX, 725.08, 24" EACH	625 GROUND ROD EACH	625 POWER SERVICE, AS PER PLAN EACH	625 UNDERGROUND WARNING/MARKING TAPE FT	625 ARC FLASH CALCULATIONS AND LABEL EACH						
	CKT 'A'																																			
91	433+55.00		RT	PS-A																					1	1		1								
91	433+55.00	433+52.70	RT	PS-A	PB-7		3							40					10			10		1			10									
91	433+52.70	433+51.00	RT	PB-7	1-A-8									25					5			5					5									
91	433+51.00		RT	1-A-8		2		1					1			135					1				1											
90/91	433+51.00	432+33.80	RT	1-A-8	1-A-7													134				124					124									
90	432+33.80		RT	1-A-7		2		1					1			135					1				1											
90	432+33.80	431+75.20	RT	1-A-7	PB-3		3											69				59		1			59									
90	431+75.20	431+37.80	RT	PB-3	1-A-6													52				42					42									
90	431+37.80		RT	1-A-6		2		1					1			135					1				1											
90	431+37.80	311+38.10	RT	1-A-6	PB-2		3											51				41		1			41									
90	311+38.10	310+89.50	RT	PB-2	1-A-5													60				50					50									
90	310+89.50		RT	1-A-5		2		1					1			135					1				1											
90	310+89.50	310+57.40	RT	1-A-5	PB-8		3							115					35			35		1			35									
90/92	310+57.40	309+85.50	RT	PB-8	1-A-4													84				74					74									
92	309+85.50		RT	1-A-4		2		1					1			135					1				1											
90	311+38.10	311+36.60	LT/RT	PB-2	PB-1		3							232					74			74		1			74									
90	311+36.60	430+04.30	RT	PB-1	1-A-3													37				27					27									
90	430+04.30		RT	1-A-3		2		1					1			135					1				1											
90	430+04.30	429+21.10	RT	1-A-3	1-A-2													101				91					91									
90	429+21.10		RT	1-A-2		2		1					1			135					1				1											
89/90	429+21.10	428+15.60	RT	1-A-2	1-A-1													119				109					109									
89	428+15.60		RT	1-A-1		2		1					1			135					1				1											
90	431+75.20	431+78.70	LT/RT	PB-3	PB-4		3							199					63			63		1			63									
90	431+78.70	431+29.80	LT	PB-4	1-A-9													61				51					51									
90	431+29.80		LT	1-A-9		2		1					1			135					1				1											
90	431+29.80	431+02.60	LT	1-A-9	PB-5		3											46				36		1			36									
90	431+02.60	430+28.80	LT/RT	PB-5	PB-6		3							304					98			98		1			98									
90	430+28.80	433+22.40	RT	PB-6	1-A-10													18				8					8									
90	433+22.40		RT	1-A-10		2		1					1			135					1				1											
90/93	431+02.60	313+53.00	RT	PB-5	1-A-11													90				80					80									
93	313+53.00		RT	1-A-11		2		1					1			135					1				1											
93	313+53.00	314+63.80	RT	1-A-11	1-A-12													119				109					109									
93	314+63.80		RT	1-A-12		2		1					1			135					1				1											
TOTAL CARRIED TO GENERAL SUMMARY						24	24	12					12	915		1620		1041	285		12	1186		8	13	1	1186	1							

DESIGN AGENCY
WOOLPERT

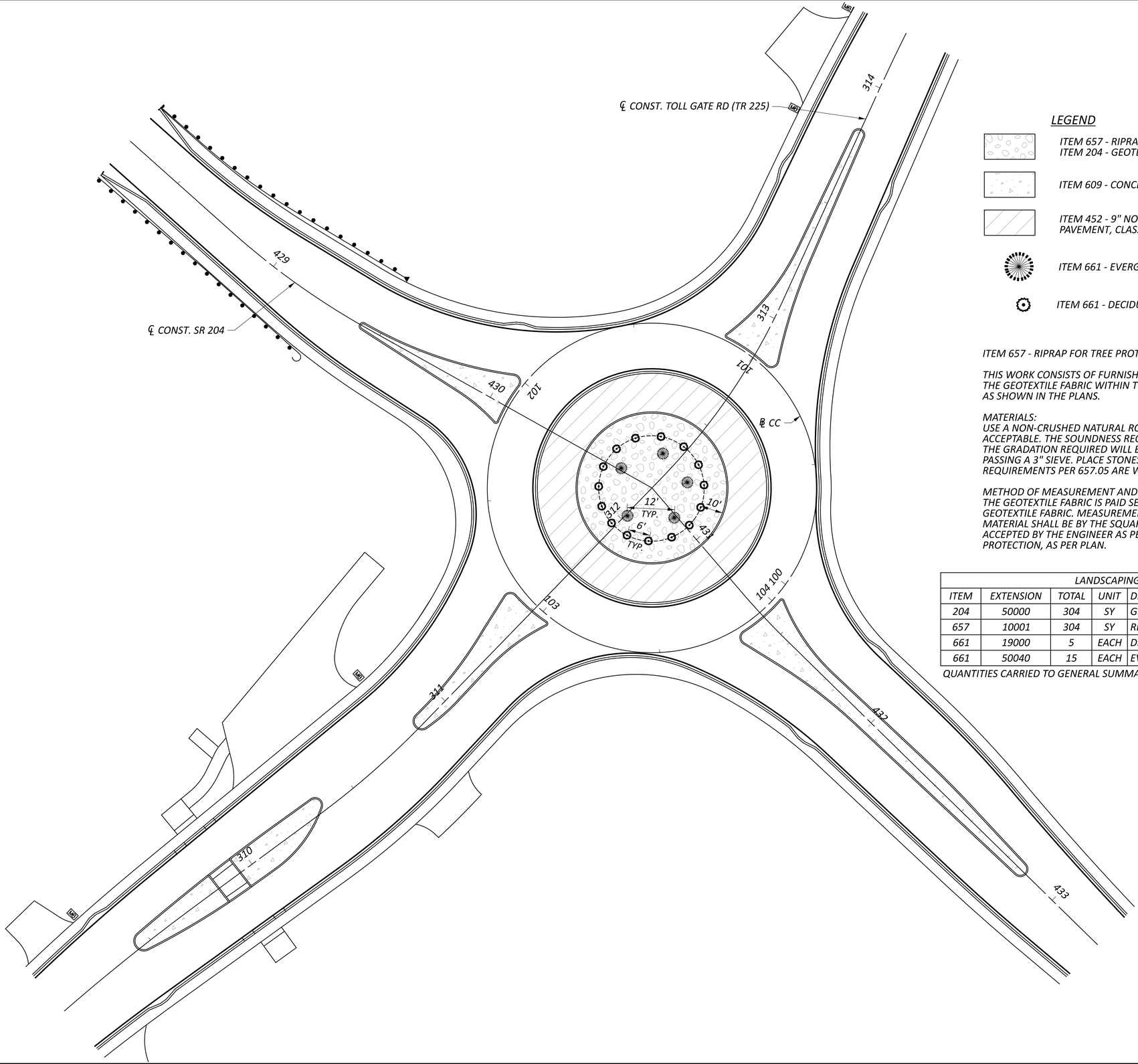
DESIGNER
KWA

REVIEWER
JTB 08/15/25

PROJECT ID
113650

SHEET P.94 TOTAL 101

FAI-204-04.30



LEGEND

- ITEM 657 - RIPRAP FOR TREE PROTECTION, AS PER PLAN
  ITEM 204 - GEOTEXTILE FABRIC
- ITEM 609 - CONCRETE MEDIAN (6" DEPTH)
- ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P
- ITEM 661 - EVERGREEN TREE, 2' HEIGHT
- ITEM 661 - DECIDUOUS SHRUB, 12" HEIGHT

ITEM 657 - RIPRAP FOR TREE PROTECTION, AS PER PLAN

THIS WORK CONSISTS OF FURNISHING AND PLACING RIPRAP ON TOP OF THE GEOTEXTILE FABRIC WITHIN THE CIRCLE AREA OF THE ROUNDABOUT AS SHOWN IN THE PLANS.

MATERIALS:
USE A NON-CRUSHED NATURAL ROCK GRAVEL. LIMESTONE IS NOT ACCEPTABLE. THE SOUNDNESS REQUIREMENTS OF 657.02 ARE WAIVED. THE GRADATION REQUIRED WILL BE 100% PASSING A 6" SIEVE AND 0% PASSING A 3" SIEVE. PLACE STONES IN A 6" LIFT. MANUAL PLACING REQUIREMENTS PER 657.05 ARE WAIVED.

METHOD OF MEASUREMENT AND PAYMENT:
THE GEOTEXTILE FABRIC IS PAID SEPARATELY UNDER THE ITEM 204 - GEOTEXTILE FABRIC. MEASUREMENT AND PAYMENT FOR THE GRAVEL MATERIAL SHALL BE BY THE SQUARE YARD, COMPLETE IN PLACE, AND ACCEPTED BY THE ENGINEER AS PER ITEM 657 - RIPRAP FOR TREE PROTECTION, AS PER PLAN.

LANDSCAPING SUBSUMMARY

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION
204	50000	304	SY	GEOTEXTILE FABRIC
657	10001	304	SY	RIPRAP FOR TREE PROTECTION, AS PER PLAN
661	19000	5	EACH	DECIDUOUS SHRUB, 12" HEIGHT
661	50040	15	EACH	EVERGREEN TREE, 2' HEIGHT

QUANTITIES CARRIED TO GENERAL SUMMARY

HORIZONTAL SCALE IN FEET
0 10 20 40

LANDSCAPING PLAN ROUNDABOUT

DESIGN AGENCY
OHM

DESIGNER
KAH

REVIEWER
SEO 08/15/25

PROJECT ID
113650

SHEET P.95 TOTAL 101

FAI-204-04.30

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PROJECT DESCRIPTION

THE PROJECT CONSISTS OF CONSTRUCTION OF A ROUNDABOUT AT THE INTERSECTION OF SR 204 AND TOLL GATE ROAD (TR 225) IN VIOLET TOWNSHIP, FAIRFIELD COUNTY, OHIO. PROJECT WORK INCLUDES NEW ASPHALT PAVEMENT, CURB AND GUTTER, STORM SEWER, STREET LIGHTING, AND TRAFFIC CONTROL.

HISTORIC RECORDS

HISTORICAL GEOTECHNICAL RECORDS WERE OBTAINED FROM ODOT'S TRANSPORTATION INFORMATION MAPPING SYSTEM (TIMS) FOR FAI-204-(3.46)(4.32) (SUB-BATCH 600514) COMPLETED IN 2022 FOR A CULVERT INSTALLATION TO THE WEST OF THE PROPOSED PROJECT LIMITS. THE EXPLORATION INDICATED PREDOMINANTLY COHESIVE SOILS AT SUBGRADE ELEVATION WITH SOME GRANULAR SOILS INTERSPERSED THROUGHOUT. THESE RESULTS WERE NOT UTILIZED DURING THE CURRENT DESIGN.

GEOLOGY

THE PROJECT AREA IS LCOATED WITHIN THE GALION GLACIATED LOW PLATEAU PHYSIOGRAPHIC REGION WHICH IS CHARACTERIZED BY MODERATE RELIEF WITH GENTLY ROLLING TERRAIN ASSOCIATED WITH THE TRANSITION BETWEEN THE GLACIAL TILL PLAINS AND THE GLACIATED ALLEGHENY PLATEAU. THE PROJECT AREA IS CHARACTERIZED BY LOW RELIEF WITH THICK OVERBURDEN SOILS. THE OVERBURDEN SOILS ARE PREODOMINATELY COHESIVE INTERSPERSED WITH GRANULAR LAYERS AND UNDERLAIN BY SANDSTONE AND SHALE OF MISSISSIPIAN AGE.

RECONNAISSANCE

FIELD RECONNAISSANCE WAS COMPLETED BY PERSONNEL FROM THE OFFICE OF GEOTECHNICAL ENGINEERING (OGE) ON AUGUST 15, 2024. THE PROJECT AREA CONSISTS OF THE INTERSECTION OF SR 204 AND TOLL GATE ROAD. THE EXISTING PAVEMENT ON SR 204 WAS NOTED AS BEING IN VERY GOOD CONDITION AS WELL AS ALONG TOLL GATE ROAD NORTH OF THE INTERSECTION. SOUTH OF THE INTERSECTION THE PAVEMENT OF TOLL GATE ROAD WAS NOTED AS BEING IN GOOD CONDITION. THE ADJACENT LAND USAGE WAS NOTED AS BEING COMMERCIAL ON THE SOUTH SIDE OF THE INTERSECTION CONSISTING OF A CHURCH AND PARKING LOTS ON EITHER SIDE OF TOLL GATE ROAD AND RURAL RESIDENTIAL ON THE NORTH SIDE. EAST OF THE INTERCHANGE, SR 204 AND TOLL GATE ROAD ARE AT GRADE WITH A DRAINAGE DITCH RUNNING PARALLEL TO SR 204 TO THE NORTH. WEST OF THE INTERCHANGE, SR 204 IS SUPPORTED BY EMBANKMENT FILLS THICKENING TOWARD A BRANCH OF SYCAMORE CREEK WHICH IS CONVEYED THROUGH A CULVERT. THESE EMBANKMENT SLOPES APPEAR TO BE STABLE WITH NO SIGNS OF INSTABILITY NOTED. THE MAJORITY OF THE ROUND-ABOUT WILL BE CONSTRUCTED WITHIN THE GRAVEL PARKING LOT IN THE SOUTHEAST QUADRANT AND THE GRASSY, RESIDENTIAL YARD IN THE NORTHEAST QUADRANT OF THE INTERSECTION.

SUBSURFACE EXPLORATION

NINE (9) BORINGS, B-001-0-24 THROUGH B-009-0-24, WERE COMPLETED AS PART OF THE SUBSURFACE EXPLORATION BETWEEN AUGUST 26 AND 27, 2024. THE BORINGS WERE DRILLED BY A TRUCK MOUNTED CME 55 ROTARY DRILL RIG. ALL BORINGS, EXCEPT FOR B-002-0-24 AND B-007-0-24, WERE COMPLETED USING 3 ½ - INCH SOLID STEM AUGERS WHILE B-002-0-24 AND B-007-0-24 WERE COMPLETED USING 3 ¼- INCH HOLLOW STEM AUGERS. DISTURBED SAMPLES WERE COLLECTED IN ACCORDANCE WITH THE STANDARD PENETRATION TEST (AASHTO T206) AT CONTINUOUS INTERVALS WITHIN THE OVERBURDEN SOILS. THE HAMMER SYSTEM USED WAS CALIBRATED ON NOVEMBER 7, 2023, AND HAD AN ENERGY RATIO (ER) OF 81% WHEN USING THE SOLID STEM AUGERS AND AN ER OF 88% WHEN USING THE HOLLOW STEM AUGERS.

IN ADDITION, ONE (1) DUAL MASS DYNAMIC CONE PENETRATION (DDCP) SOUNDING, D-003-1-24, WAS CONDUCTED WITHIN THE DITCH RUNNING PARALLEL TO THE ROAD ALONG THE EASTERN END OF THE PROJECT ON AUGUST 29, 2024. THE SOUNDING WAS COMPLETED UTILIZING A KESSLER AUTOMATIC DUAL MASS DCP UNIT IN ACCORDANCE WITH ASTM D6951. HAND AUGER SAMPLES WERE TAKEN AT THE SOUNDING LOCATION TO AID IN EVALUATING THE FOUNDATION SOIL CONDTIONS WITHIN THE DITCH.

EXPLORATION FINDINGS

BORINGS B-001-0-24 TO B-004-0-24 WERE COMPLETED ALONG THE PROPOSED ALIGNMENT FOR SR 204. BORINGS B-001-0-24, B-003-0-24 AND B-004-0-24 WERE COMPLETED WITHIN THE EXISTING ROADWAY ENCOUNTERING 8.5 TO 12-INCHES OF ASPHALT UNDERALIN BY 6 TO 7.5-INCHES OF AGGREGATE BASE. BENEATH THE SURFACE MATERIALS, B-001-0-24 ENCOUNTERED A VERY DENSE LAYER OF GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT (A-2-4) IN WET CONDITION UNDERLAIN BY COHESIVE SANDY SILT (A-4a) THAT WAS HARD IN CONSISTENCY AND DAMP IN CONDITION. BENEATH THE COHESIVE MATERIAL, THE BORING ENCOUNTERED DENSE TO VERY DENSE GRANULAR MATERIALS CONSISTING OF GRAVEL AND STONE FRAGMENTS WITH SAND, SILT AND CLAY (A-2-6) UNDERLAIN BY VERY DENSE GRAVEL WITH SAND (A-1-b). BOTH OF THESE GRANULAR MATERIAL LAYERS WERE DAMP IN CONDITION. BORINGS B-003-0-24 AND B-004-0-24 ENCOUNTERED COHESIVE SOILS CONSISTING OF SANDY SILT (A-4a), SILT AND CLAY (A-6a) AND SILTY CLAY (A-6b) RANGING FROM STIFF TO HARD IN CONSISTENCY AND DAMP TO MOIST IN CONDITION BENEATH THE SURFACE MATERIALS. B-002-0-24 WAS COMPLETED ALONG THE OUTSIDE SHOULDER OF SR 204 AND ENCOUNTERED A LAYER OF GRANULAR MATERIAL CONSSTING OF MEDIUM DENSE GRAVEL AND STONE FRAGMENTS WITH SAND (A-1-b) IN DAMP CONDITION UNDERLAIN BY COHESIVE SOILS CONSISTING OF SILT AND CLAY (A-6a) AND SANDY SILT (A-4a) THAT WERE VERY STIFF TO HARD IN CONSISTENCY AND DAMP TO MOIST IN CONDITION.

A DDCP SOUNDING, D-003-1-24, WAS COMPLETED WITHIN THE EXISTING DITCH RUNNING PARALLEL TO THE EASTERN PORTION OF SR 204 TO DETERMINE IF WEAK SOILS WERE PRESENT. THE ENCOUNTERED MATERIAL RETURNED CBR VALUES WELL ABOVE THE DESIGN CBR OF 7 FOR THE PROJECT. D-003-1-24 HIT REFUSAL AT A DEPTH OF 26 INCHES AND WAS TERMINATED. HAND AUGER SAMPLES WERE TAKEN TO FURTHER CHARACTEIZE THE DITCH. SURFACE MATERIAL CONSISTED OF 5-INCHES OF TOPSOIL. THIS WAS UNDERALIN BY COHESIVE SANDY SILT (A-4a) MATERIAL IN DAMP CONDITION.

LEGEND

	DESCRIPTION	ODOT CLASS	CLASSIFIED MECH./VISUAL	
	GRAVEL AND/OR STONE FRAGMENTS WITH SAND	A-1-b	2	1
	GRAVEL AND STONE FRAGS. WITH SAND AND SILT	A-2-4	1	-
	GRAVEL AND STONE FRAGS. WITH SAND, SILT AND CLAY	A-2-6	1	-
	SANDY SILT	A-4a	18	-
	SILT AND CLAY	A-6a	14	2
	SILTY CLAY	A-6b	6	1
	CLAY	A-7-6	1	-
		TOTAL	43	4
	PAVEMENT OR BASE = X = APPROXIMATE THICKNESS	VISUAL		
	SOD AND TOPSOIL = X = APPROXIMATE THICKNESS	VISUAL		
	BORING LOCATION - PLAN VIEW.			
	DRIVE SAMPLE AND/OR ROCK CORE BORING PLOTTED TO VERTICAL SCALE ONLY. HORIZONTAL BAR INDICATES A CHANGE IN STRATIGRAPHY.			
WC	INDICATES WATER CONTENT IN PERCENT.			
N_{60}	INDICATES STANDARD PENETRATION RESISTANCE NORMALIZED TO 60% DRILL ROD ENERGY RATIO.			
X/Y/Z/D"	NUMBER OF BLOWS FOR STANDARD PENETRATION TEST (SPT): X= NUMBER OF BLOWS FOR FIRST 6 INCHES. Y= NUMBER OF BLOWS FOR SECOND 6 INCHES. Z/D"= NUMBER OF BLOWS (UNCORRECTED) FOR D" OF PENETRATION AT REFUSAL.			
LOI	INDICATES ORGANIC CONTENT BY LOSS ON IGNITION. AASHTO T267.			
⊖	INDICATES A NON-PLASTIC MATERIAL WITH A MOISTURE CONTENT GREATER THAN 25 % OR GREATER THAN 19 % WITH A WET APPEARANCE.			
HA	INDICATES A HAND AUGER SAMPLE.			
SS	INDICATES A SPLIT SPOON SAMPLE.			
NP	INDICATES A NON-PLASTIC SAMPLE.			

EXPLORATION FINDINGS, CONTINUED.

BORINGS B-005-0-24 TO B-009-0-24 WERE COMPLETED FOR THE PROPOSED TOLL GATE ROAD (TR 225) ALIGNMENT. BORINGS B-005-0-24, B-008-0-24 AND B-009-0-24 WERE COMPLETED WITHIN THE EXISTING ROADWAY AND ENCOUNTERED BETWEEN 9 TO 12-INCHES OF ASPHALT UNDERLAIN BY 6 TO 9-INCHES OF AGGREGATE BASE. BENEATH THE SURFACE MATERIALS THE BORINGS ENCOUNTERED COHESIVE SOILS CONSISTING OF SANDY SILT (A-4a), SILT AND CLAY (A-6a), SILTY CLAY (A-6b), AND CLAY (A-7-6) THAT WERE STIFF TO HARD IN CONSISTENCY AND DAMP TO MOIST IN CONDITION. BORING B-006-0-24 WAS COMPLETED WITHIN A GRAVEL PARKING LOT AT THE SOUTHEAST CORNER OF THE INTERSECTION. THE BORING ENCOUNTERED COHESIVE SOILS CONSISTING OF SANDY SILT (A-4a), SILTY AND CLAY (A-6a) AND SILTY CLAY (A-6b) THAT WERE MEDIUM STIFF TO HARD IN CONSISTENCY AND DAMP TO MOIST IN CONDITION. B-007-0-24 WAS COMPLETED WITHIN A GRASS LAWN IN THE NORTHEAST CORNER OF THE INTERESECTION WHERE COHESIVE SOILS CONSISTING OF SANDY SILT (A-4a) AND SILT AND CLAY (A-6a) WERE ENCOUNTERED RANGING FROM VERY STIFF TO HARD IN CONSISTENCY AND DAMP IN CONDITION. SLIGHTLY ORGANIC SOILS WERE ENCOUNTERED AT ELEVATIONS 1033.7 AND 1029.2 FT WITHIN THE BORING.

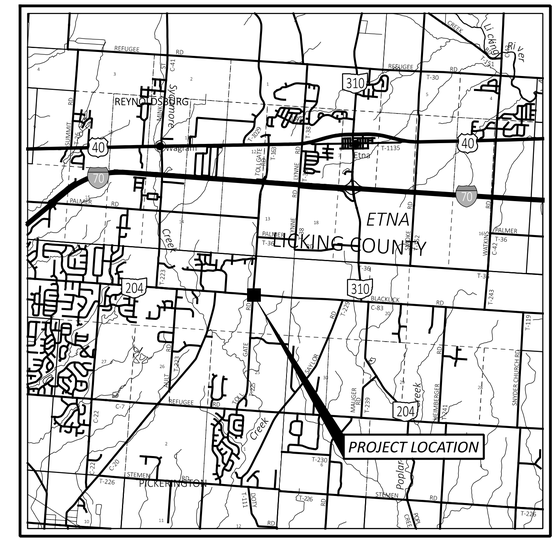
ALL BORINGS WERE REPORTED AS DRY UPON COMPLETION.

SPECIFICATIONS

THIS GEOTECHNICAL EXPLORATION WAS PERFORMED IN ACCORDANCE WITH THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, OFFICE OF GEOTECHNICAL ENGINEERING, SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS, DATED JULY 2024.

AVAILABLE INFORMATION

THE SOIL, BEDROCK, AND GROUNDWATER INFORMATION COLLECTED FOR THIS SUBSURFACE EXPLORATION THAT CAN BE CONVENIENTLY DISPLAYED ON THE GEOTECHNICAL PROFILE SHEETS HAS BEEN PRESENTED. GEOTECHNICAL REPORTS, IF PREPARED, ARE AVAILABLE FOR REVIEW ON THE OFFICE OF CONTRACT SALES WEBSITE.



LOCATION MAP

SCALE IN MILES

0 1 2 3 4

PARTICLE SIZE DEFINITIONS

12"	3"	2.0 mm	0.42 mm	0.074 mm	0.005 mm	
BOULDERS	COBBLES	GRAVEL	COARSE SAND	FINE SAND	SILT	CLAY
		No. 10 SIEVE	No. 40 SIEVE	No. 200 SIEVE		

INDEX OF SHEETS				
SUMMARY OF SOIL TEST DATA, SHEET 2.				
LOCATION FROM STA.	TO STA.	PLAN	PROFILE	CROSS SECTION
SR 204				
427+50	434+54.13	3	3	-
STA. 432+00		-	-	4
TOLL GATE RD.				
307+00	316+50.96	5	5	-
DCP TEST DATA, SHEET 6.				

ORGANIC CONTENT BY LOSS ON IGNITION TEST

EXPLOR. ID	SAMPLE ID	SAMPLE DEPTH	SAMPLE ELEVATION	LOI (%)
B-007-0-24	SS-1	0.00' - 1.50'	1033.7' - 1032.2'	3.7
B-007-0-24	SS-4	4.50' - 6.00'	1029.2' - 1027.7'	3.0
D-003-1-24	HA-1	0.50' - 1.00'	1030.8' - 1030.3'	3.1

RECON. -	AMJ	08/15/24
DRILLING -	JAS	08/26/24 - 08/27/24
	JFK	08/29/24
DRAWN -	AJC	11/01/24
REVIEWED -	BKL	11/01/24

GEOTECHNICAL PROFILE - ROADWAY

DESIGN AGENCY

DESIGNER AJC

REVIEWER BKL 11/01/24

PROJECT ID 113650

SUBSET 1 TOTAL 6

SHEET P.0 TOTAL 0

FAI-204-4.30

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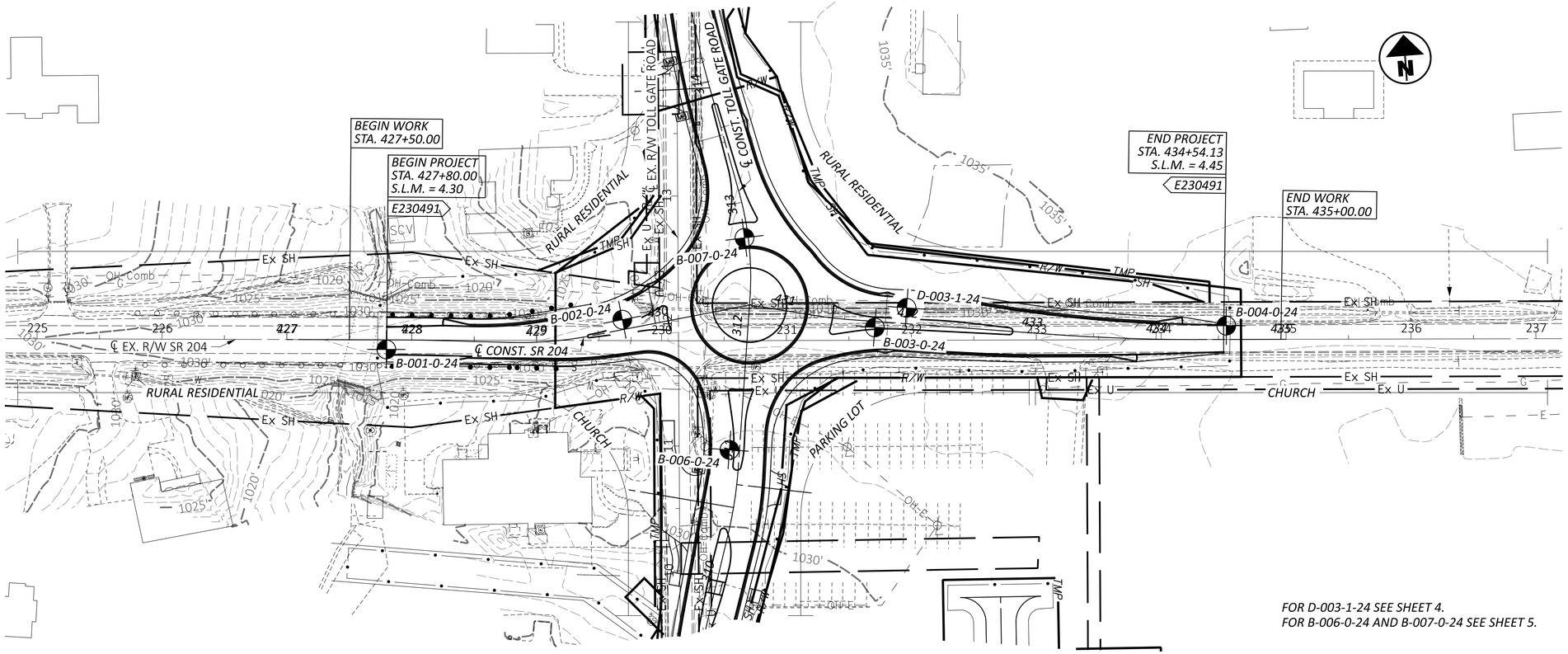
SUMMARY OF SOIL TEST DATA

S.R. 204

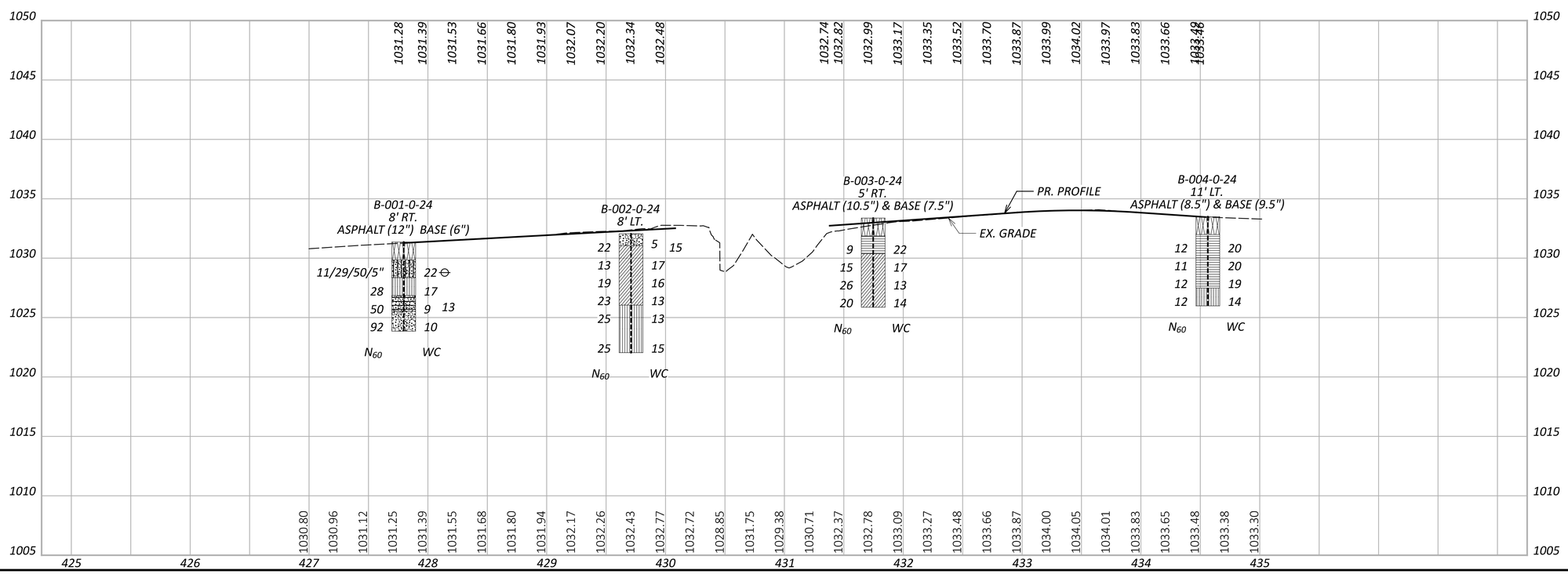
EXPLOR. ID	FROM	-	TO	SAMPLE ID	N60	% REC	tsf HP	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-001-0-24	1.50	-	2.92	SS-1	11/29/50/5"	88	4.50	25	19	25	22	9	NP	NP	NP	22	A-2-4 (0)	170
STA. 427+80, 8' RT.	3.00	-	4.50	SS-2	28	67	4.50	26	17	20	21	16	35	30	5	17	A-4a (0)	-
LATITUDE = 39.928327	4.50	-	5.82	SS-3A	50	83	3.00	46	10	12	6	26	30	19	11	13	A-2-6 (0)	-
LONGITUDE = -82.708141	5.82	-	6.00	SS-3B			-				SAME AS SS-4					9	A-1-b (VISUAL)	-
	6.00	-	7.50	SS-4	92	72	1.00	17	41	27	8	7	NP	NP	NP	10	A-1-b (0)	-
B-002-0-24	0.00	-	1.00	SS-1A	22	78	-	48	20	13	10	9	19	17	2	5	A-1-b (0)	110
STA. 429+71, 8' LT.	1.00	-	1.50	SS-1B			4.00				SAME AS SS-2					15	A-6a (VISUAL)	-
LATITUDE = 39.928353	1.50	-	3.00	SS-2	13	78	4.00	6	6	13	34	41	31	16	15	17	A-6a (10)	200
LONGITUDE = -82.707463	3.00	-	4.50	SS-3	19	44	2.50				SAME AS SS-2					16	A-6a (VISUAL)	-
	4.50	-	6.00	SS-4	23	100	4.50	9	10	16	32	33	26	15	11	13	A-6a (6)	-
	6.00	-	7.50	SS-5	25	100	4.50	12	8	15	32	33	24	15	9	13	A-4a (6)	-
	8.50	-	10.00	SS-6	25	100	3.50	16	8	15	27	34	25	15	10	15	A-4a (5)	-
B-003-0-24	1.50	-	3.00	SS-1	9	89	3.00	5	6	12	36	41	34	17	17	22	A-6b (11)	120
STA. 431+75, 5' RT.	3.00	-	4.50	SS-2	15	83	3.50	8	6	16	34	36	30	16	14	17	A-6a (9)	-
LATITUDE = 39.928294	4.50	-	6.00	SS-3	26	100	4.50	21	6	14	25	34	28	15	13	13	A-6a (6)	-
LONGITUDE = -82.706746	6.00	-	7.50	SS-4	20	100	4.50	10	6	18	35	31	25	14	11	14	A-6a (7)	-
D-003-1-24	0.50	-	1.00	HA-1			-	10	8	17	32	33	24	16	8	9	A-4a (6)	-
STA. 431+99, 13' LT.	1.30	-	1.80	HA-2			-	8	9	17	32	34	26	16	10	13	A-4a (6)	<100
LATITUDE = 39.928331	2.10	-	2.60	HA-3			-	13	5	16	33	33	25	16	9	13	A-4a (6)	-
LONGITUDE = -82.706651																		
B-004-0-24	1.50	-	3.00	SS-1	12	83	3.50	9	3	9	35	44	38	16	22	20	A-6b (13)	<100
STA. 434+56, 11' LT.	3.00	-	4.50	SS-2	11	0	-	10	4	11	34	41	34	16	18	20	A-6b (11)	-
LATITUDE = 39.928239	4.50	-	6.00	SS-3	12	56	1.50	27	6	12	18	37	33	16	17	19	A-6b (7)	-
LONGITUDE = -82.705745	6.00	-	7.50	SS-4	12	89	4.00	14	7	17	31	31	23	14	9	14	A-4a (5)	-

TOLL GATE ROAD

EXPLOR. ID	FROM	-	TO	SAMPLE ID	N60	% REC	tsf HP	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-005-0-24	1.50	-	3.00	SS-1	9	50	3.00	21	4	11	14	50	58	14	44	19	A-7-6 (16)	-
STA. 306+98, 2' RT.	3.00	-	4.50	SS-2	23	100	4.00	13	6	15	30	36	29	15	14	13	A-6a (8)	130
LATITUDE = 39.926966	4.50	-	6.00	SS-3	24	100	4.50	19	6	15	26	34	27	16	11	13	A-6a (5)	-
LONGITUDE = -82.707419	6.00	-	7.50	SS-4	19	100	4.00	7	7	18	39	29	26	15	11	14	A-6a (7)	-
B-006-0-24	0.00	-	0.70	SS-1A	28	72	0.50	41	13	10	17	19	21	17	4	7	A-4a (0)	<100
STA. 311+00, 8' LT.	0.70	-	1.50	SS-1B			4.50				SAME AS SS-2					15	A-6b (VISUAL)	-
LATITUDE = 39.928050	1.50	-	3.00	SS-2	18	72	4.50	16	3	12	31	38	34	18	16	16	A-6b (9)	100
LONGITUDE = -82.707186	3.00	-	4.50	SS-3	16	100	3.00	8	3	16	33	40	30	17	13	19	A-6a (9)	-
	4.50	-	6.00	SS-4	16	56	3.00	27	4	11	17	41	33	18	15	13	A-6a (7)	-
	6.00	-	7.50	SS-5	23	78	4.50	18	3	14	28	37	28	17	11	14	A-6a (6)	-
B-007-0-24	0.00	-	1.50	SS-1	12	67	2.50	3	5	13	49	30	28	21	7	13	A-4a (8)	-
STA. 312+71, 3' LT.	1.50	-	3.00	SS-2	18	67	4.50	3	5	17	34	41	33	20	13	16	A-6a (9)	<100
LATITUDE = 39.928512	3.00	-	4.50	SS-3	21	83	4.50	10	5	17	32	36	27	17	10	14	A-4a (7)	-
LONGITUDE = -82.707097	4.50	-	6.00	SS-4	19	89	4.50	6	6	17	34	37	25	17	8	14	A-4a (7)	-
	6.00	-	7.50	SS-5	25	83	4.00	17	6	16	29	32	24	16	8	14	A-4a (5)	-
	8.50	-	10.00	SS-6	22	83	4.50	19	9	22	28	22	19	14	5	12	A-4a (3)	-
B-008-0-24	1.50	-	3.00	SS-1	8	56	3.00	8	4	17	33	38	34	18	16	21	A-6b (10)	<100
STA. 314+82, 17' LT.	3.00	-	4.50	SS-2	22	78	4.50	10	6	17	33	34	25	16	9	13	A-4a (6)	-
LATITUDE = 39.929079	4.50	-	6.00	SS-3	28	100	4.50	11	7	16	34	32	23	16	7	13	A-4a (6)	-
LONGITUDE = -82.707268	6.00	-	7.50	SS-4	28	100	4.50	6	6	16	38	34	23	16	7	13	A-4a (7)	-
B-009-0-24	1.50	-	3.00	SS-1	13	61	4.50	13	4	15	29	39	31	17	14	16	A-6a (8)	<100
STA. 316+50, 2' RT.	3.00	-	4.50	SS-2	18	83	3.50	8	10	19	28	35	29	17	12	16	A-6a (6)	-
LATITUDE = 39.929542	4.50	-	6.00	SS-3	20	100	3.50	10	7	16	32	35	24	16	8	14	A-4a (6)	-
LONGITUDE = -82.707181	6.00	-	7.50	SS-4	12	72	1.50	12	11	18	31	28	24	16	8	15	A-4a (5)	-



FOR D-003-1-24 SEE SHEET 4.
FOR B-006-0-24 AND B-007-0-24 SEE SHEET 5.



HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
STA. 427+50 TO STA. 434+54.13 SR 204

DESIGN AGENCY

DESIGNER: AJC
REVIEWER: BKL 10/31/24
PROJECT ID: 113650
SUBSET: 3 TOTAL: 6
SHEET: P.0 TOTAL: 0

FAI-204-4.30

MODEL: CLP_204 - SR 204 Plan View [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:33:42 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
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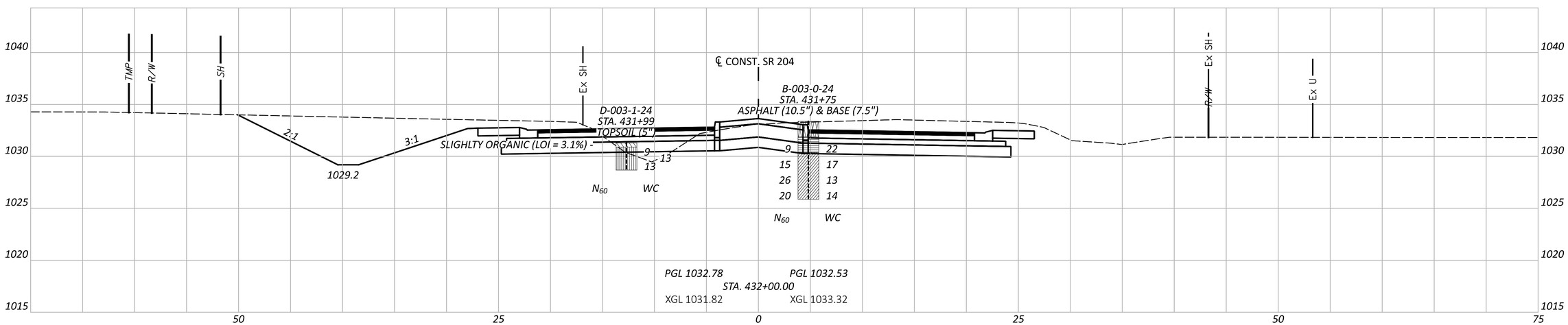

GEOTECHNICAL PROFILE - ROADWAY
CROSS SECTION STA. 432+00 SR 204

DESIGN AGENCY

DESIGNER
AJC

REVIEWER
BKL 10/31/24

PROJECT ID
113650

SUBSET 4 | TOTAL 6

SHEET P.0 | TOTAL 0

FAI-204-4.30

MODEL: CLP_204 - 432+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:34:06 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
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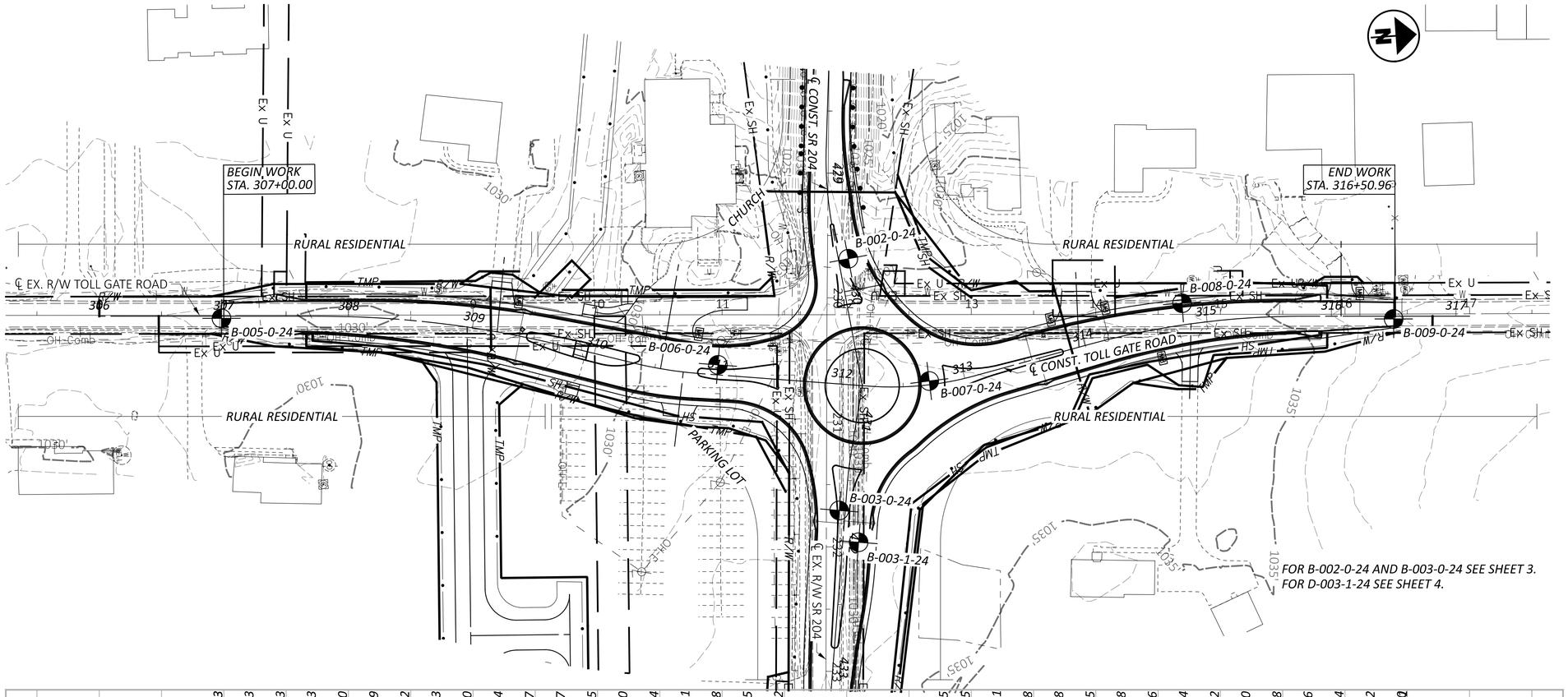

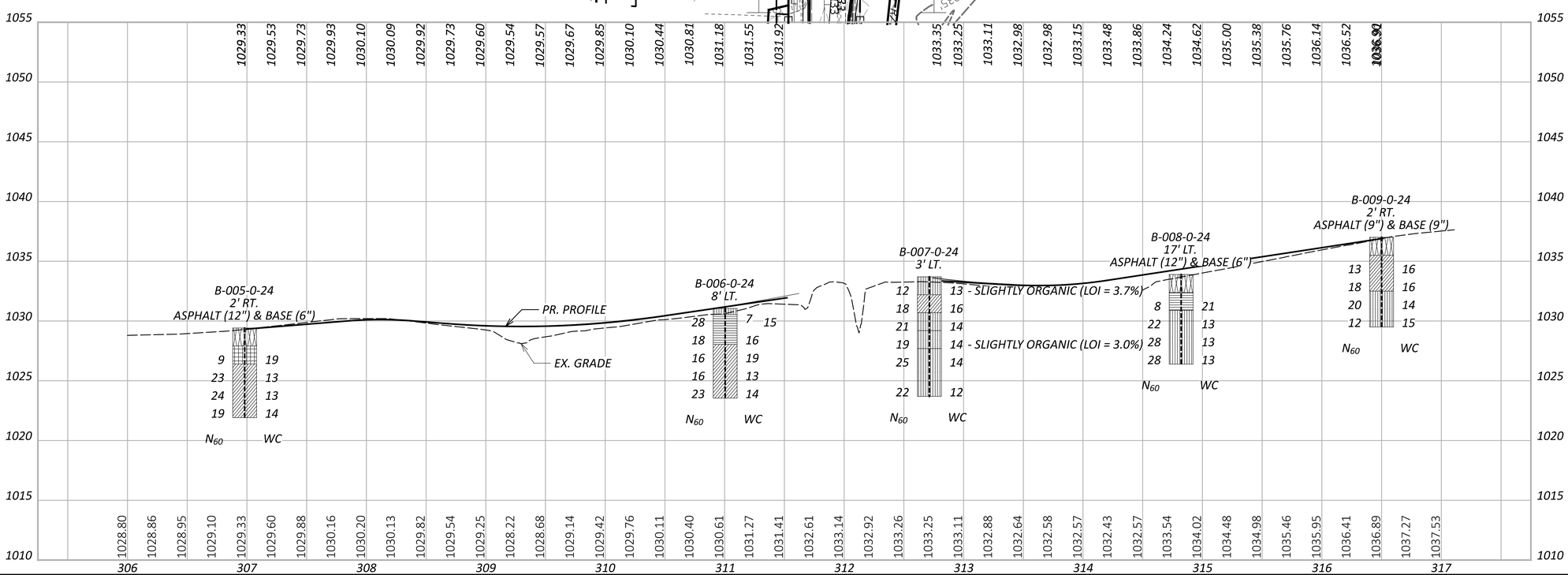

HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
STA. 307+00 TO STA. 316+50.96 TOLL GATE RD

DESIGN AGENCY

DESIGNER: AJC
REVIEWER: BKL 10/31/24
PROJECT ID: 113650
SUBSET: 5 TOTAL: 6
SHEET: P.0 TOTAL: 0

FAI-204-4.30

MODEL: CLP_TollGate - TollGate Rd Plan View [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 8:34:27 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOTCEv02 WORKSET: 113650 PRODUCT: OpenRoadsDesigner 10.12.02.4
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DCP TEST DATA

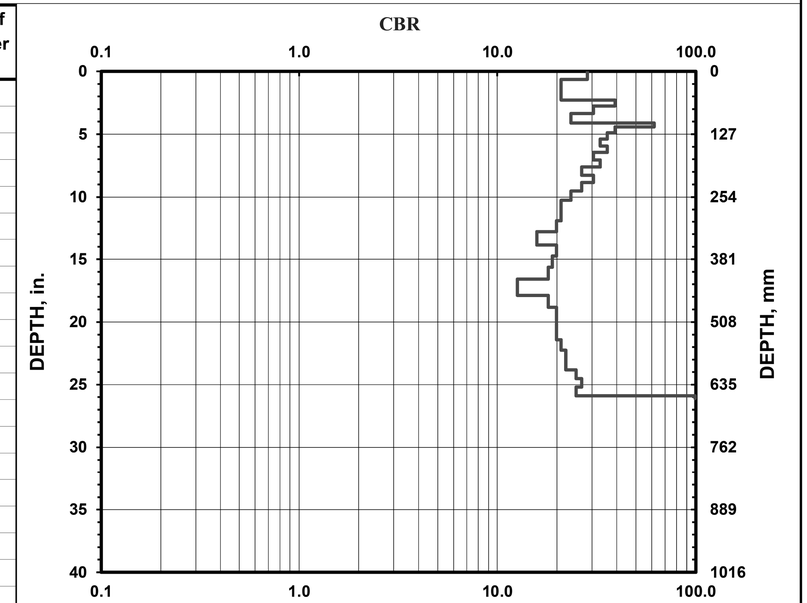
Project:	FAI-204-4.3	PID:	113650
Exploration ID:	D-003-1-24	Date:	8/29/2024
Surface Elevation:	1031.3	Surface Materials:	Topsoil (5")
Lat / Long:	39.928331, -82.706651	Test Starting Depth (ft):	0.0

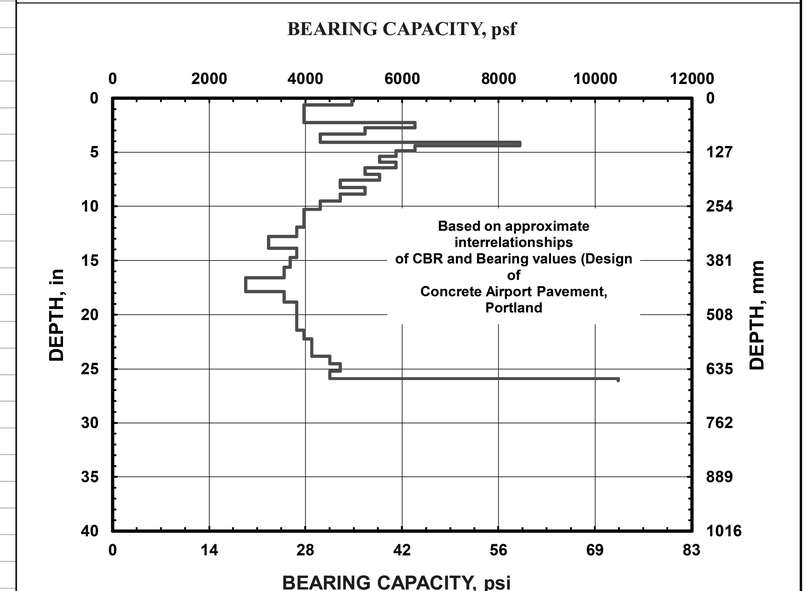
Hammer
- ○ 10.1 lbs.
- ◉ 17.6 lbs.
- ○ Both hammers used

Office of Geotechnical Engineering
Geology, Exploration, and Laboratory Section
http://www.dot.state.oh.us/Divisions/Engineering/Geotechnical

Soil Type
- ○ CH
- ○ CL
- ◉ All other soils

No. of Blows	Accumulative Penetration (mm)	Type of Hammer
0	0	1
2	16	1
2	37	1
2	58	1
2	70	1
2	85	1
2	104	1
2	112	1
2	124	1
2	137	1
2	151	1
2	164	1
2	179	1
2	193	1
2	210	1
2	225	1
2	242	1
2	261	1
2	282	1
2	303	1
2	325	1
2	352	1
2	374	1
2	397	1
2	421	1
2	454	1
2	478	1
2	500	1
2	522	1
2	544	1
2	565	1
2	585	1
2	605	1
2	623	1
2	640	1
2	658	1
2	660	1
2	661	1
2	662	1
2	663	1





NOTES: Latitude & Longitude from Juniper Geode GNS3 receiver. Elevation from USGS 3DEP map service. Sounding terminated at refusal.

GEOTECHNICAL PROFILE - ROADWAY
DDCP SOUNDING LOG FOR D-003-1-24

DESIGN AGENCY

DESIGNER: AJC
REVIEWER: BKL 11/01/24
PROJECT ID: 113650
SUBSET: 6 TOTAL: 6
SHEET: P.0 TOTAL: 0

FAI-204-4.30