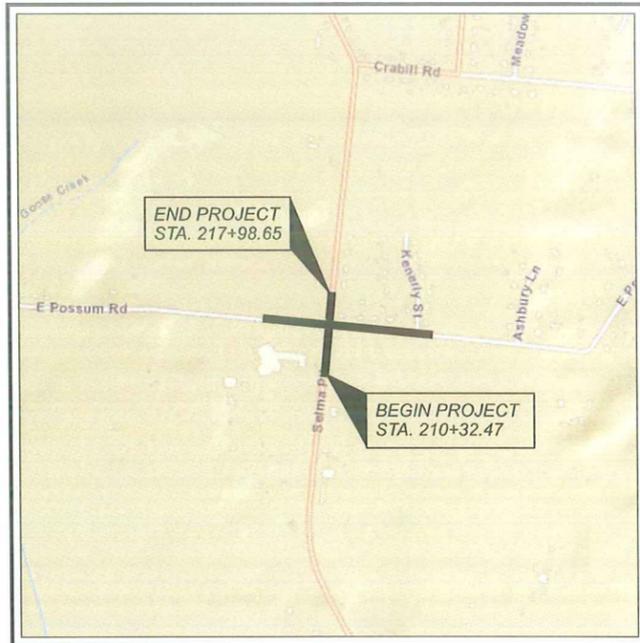


# CLARK COUNTY, OHIO OFFICE OF THE COUNTY ENGINEER

## CLA-CR351-7.92

SPRINGFIELD TOWNSHIP

CLARK COUNTY



LOCATION MAP

LATITUDE: 39° 52' 16" LONGITUDE: -083° 46' 43"



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

**DESIGN DESIGNATION**

	SELMA PIKE	EAST POSSUM ROAD (WEST OF SELMA PIKE)	EAST POSSUM ROAD (EAST OF SELMA PIKE)
CURRENT ADT (2020)	2440	5220	5220
DESIGN YEAR ADT (2040)	3855	6390	7310
DESIGN HOURLY VOLUME (2040)	480	420	640
DIRECTIONAL DISTRIBUTION	60%	50%	55%
TRUCKS (24 HOUR B&C)	8%	6%	6%
DESIGN SPEED	45 MPH	45 MPH	45 MPH
LEGAL SPEED	45 MPH	45 MPH	40 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	05 MAJOR COLLECTOR (RURAL)	06 MINOR COLLECTOR (RURAL)	06 MINOR COLLECTOR (RURAL)
NHS PROJECT	NO		

**DESIGN EXCEPTIONS**

NONE REQUIRED

**ADA DESIGN WAIVERS**

NONE REQUIRED

**INDEX OF SHEETS:**

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**PROJECT DESCRIPTION**

IMPROVEMENT OF 0.15 MILES OF COUNTY ROUTE 351 (SELMA PIKE) AND 0.32 MILES OF TOWNSHIP ROUTE 234 (EAST POSSUM ROAD). CONSTRUCTION OF A SINGLE-LANE MODERN ROUNDAABOUT AT THE INTERSECTION OF SELMA PIKE AND EAST POSSUM ROAD.

**EARTH DISTURBED AREAS**

PROJECT EARTH DISTURBED AREA:	2.71 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.25 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	2.96 ACRES

**2019 SPECIFICATIONS**

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

**ENGINEER'S SEAL:**



SIGNED: *Amy L. Rosepiller*  
DATE: 12/14/21

**ENGINEER'S SEAL:**



SIGNED: *Emilie M. Worley*  
DATE: 12/14/21

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE COUNTY ROUTE AND TOWNSHIP ROUTE, AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEET 18. PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED: *John*  
DATE: 12/14/21 CLARK COUNTY ENGINEER

APPROVED: *Melanie Fries*  
DATE: 12/15/21 CLARK COUNTY COMMISSIONER

APPROVED: *F. L. John*  
DATE: 15 Dec 21 CLARK COUNTY COMMISSIONER

APPROVED: \_\_\_\_\_  
DATE: \_\_\_\_\_ CLARK COUNTY COMMISSIONER

**UNDERGROUND UTILITIES**  
Contact Two Working Days Before You Dig

**OHIO811, 8-1-1, or 1-800-362-2764**  
(Non-members must be called directly)

PLAN PREPARED BY:  
BURGESS & NIPLE  
5085 REED ROAD  
COLUMBUS, OHIO 43220

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
BP-1.1	7/28/00	DM-3.1	1/18/13	HL-40.20	7/17/20	800	10/15/21		
BP-2.1	7/17/15	DM-4.2	7/20/12	HL-50.11	1/16/15	813	10/19/18		
BP-2.2	1/15/21	DM-4.3	1/15/16	HL-60.11	7/21/17	832	10/19/18		
BP-3.1	1/17/20	DM-4.4	1/15/16	HL-60.31	1/17/20	913	4/16/21		
BP-4.1	7/19/13								
BP-5.1	7/16/21	HW-2.1	7/20/18	TC-41.20	10/18/13				
BP-7.1	7/17/20	HW-2.2	7/20/18	TC-42.20	10/18/13				
				TC-52.10	10/18/13				
RM-1.1	1/15/21	HL-10.11	1/15/21	TC-52.20	1/15/21				
RM-3.1	7/20/18	HL-10.12	1/20/17	TC-74.10	7/16/21				
		HL-10.13	4/17/20						
CB-2-2B	7/16/21	HL-20.11	1/15/21	MT-97.10	4/19/19				
CB-3A	7/16/21	HL-30.11	1/15/21	MT-101.60	1/17/20				
		HL-30.21	4/17/20	MT-105.10	1/17/20				
DM-1.1	7/17/20	HL-30.22	1/15/21						
DM-1.2	7/16/21	HL-40.10	7/17/20						

TITLE SHEET

DESIGN AGENCY



DESIGNER  
NJL

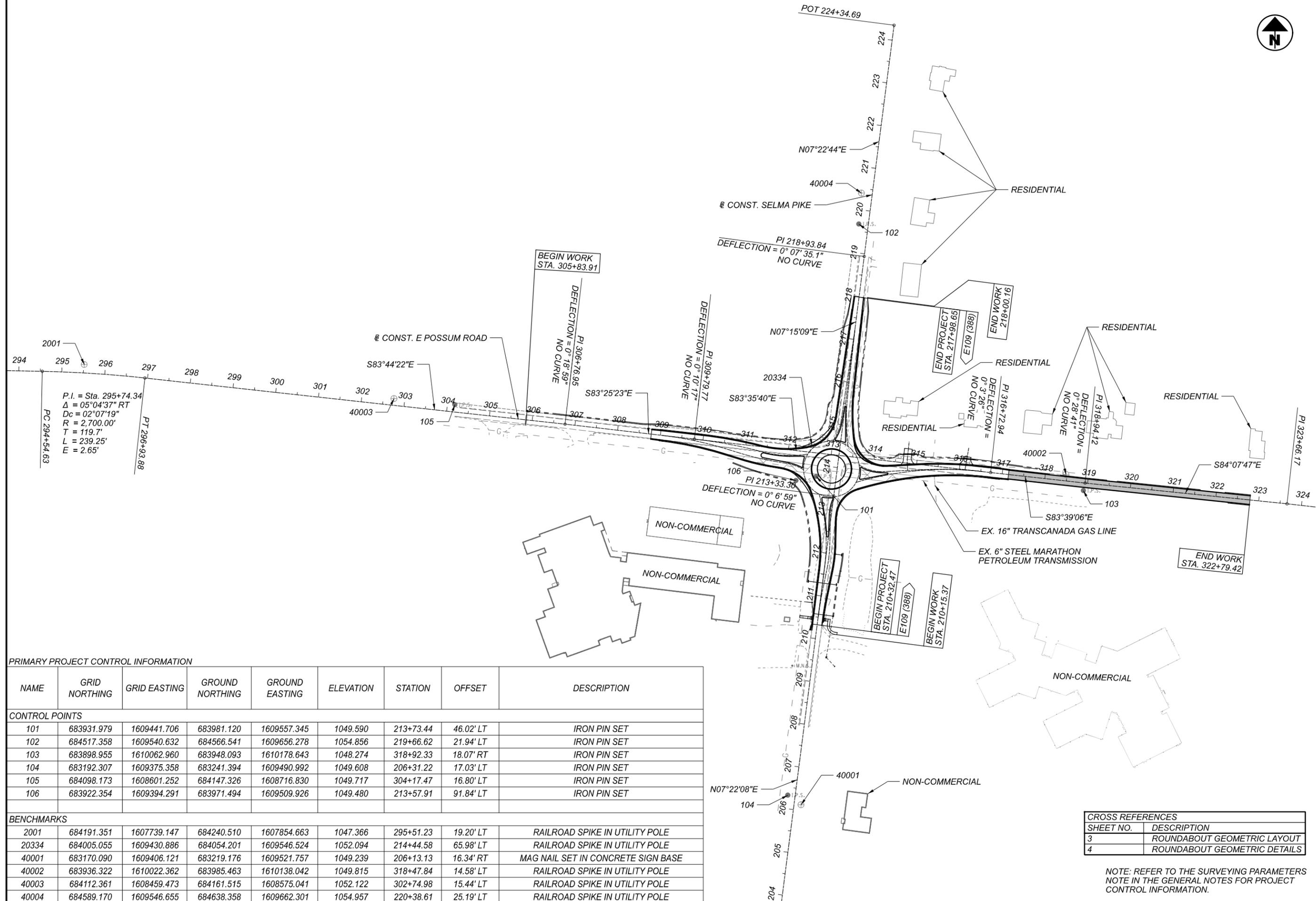
REVIEWER  
ALR 10-1-21

PROJECT ID  
109451

SHEET TOTAL  
1 102

CLA-CR351-7.92

CLA-CR351-7.92



**SCHEMATIC PLAN**

**PRIMARY PROJECT CONTROL INFORMATION**

NAME	GRID NORTHING	GRID EASTING	GROUND NORTHING	GROUND EASTING	ELEVATION	STATION	OFFSET	DESCRIPTION
<b>CONTROL POINTS</b>								
101	683931.979	1609441.706	683981.120	1609557.345	1049.590	213+73.44	46.02' LT	IRON PIN SET
102	684517.358	1609540.632	684566.541	1609656.278	1054.856	219+66.62	21.94' LT	IRON PIN SET
103	683898.955	1610062.960	683948.093	1610178.643	1048.274	318+92.33	18.07' RT	IRON PIN SET
104	683192.307	1609375.358	683241.394	1609490.992	1049.608	206+31.22	17.03' LT	IRON PIN SET
105	684098.173	1608601.252	684147.326	1608716.830	1049.717	304+17.47	16.80' LT	IRON PIN SET
106	683922.354	1609394.291	683971.494	1609509.926	1049.480	213+57.91	91.84' LT	IRON PIN SET
<b>BENCHMARKS</b>								
2001	684191.351	1607739.147	684240.510	1607854.663	1047.366	295+51.23	19.20' LT	RAILROAD SPIKE IN UTILITY POLE
20334	684005.055	1609430.886	684054.201	1609546.524	1052.094	214+44.58	65.98' LT	RAILROAD SPIKE IN UTILITY POLE
40001	683170.090	1609406.121	683219.176	1609521.757	1049.239	206+13.13	16.34' RT	MAG NAIL SET IN CONCRETE SIGN BASE
40002	683936.322	1610022.362	683985.463	1610138.042	1049.815	318+47.84	14.58' LT	RAILROAD SPIKE IN UTILITY POLE
40003	684112.361	1608459.473	684161.515	1608575.041	1052.122	302+74.98	15.44' LT	RAILROAD SPIKE IN UTILITY POLE
40004	684589.170	1609546.655	684638.358	1609662.301	1054.957	220+38.61	25.19' LT	RAILROAD SPIKE IN UTILITY POLE

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
3	ROUNDBOUT GEOMETRIC LAYOUT
4	ROUNDBOUT GEOMETRIC DETAILS

NOTE: REFER TO THE SURVEYING PARAMETERS NOTE IN THE GENERAL NOTES FOR PROJECT CONTROL INFORMATION.

DESIGN AGENCY

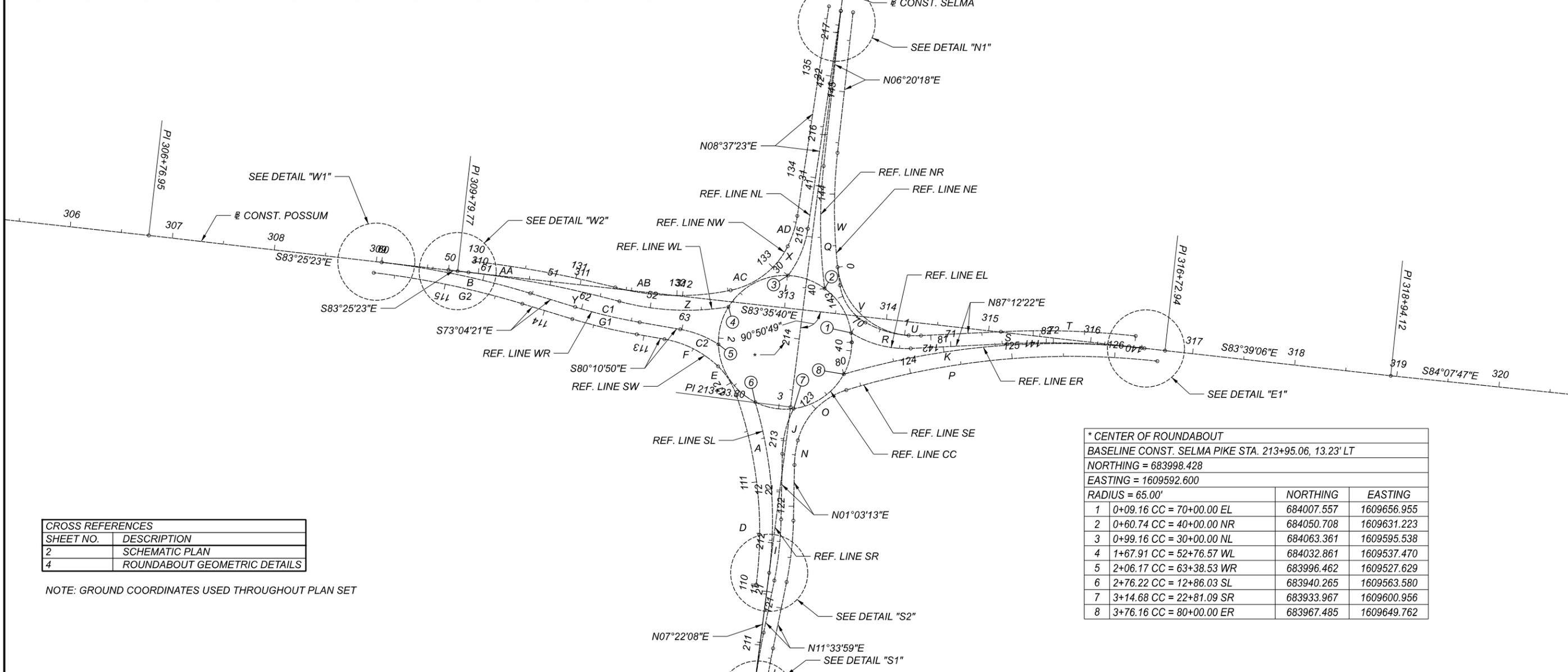
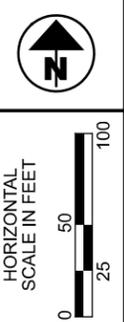


DESIGNER	NJL
REVIEWER	JED
PROJECT ID	109451
SHEET	TOTAL
2	102

CLA-CR351-7.92

REF. LINE	CURVE NAME	P.I. STATION	P.I. NORTHING	P.I. EASTING	Dc	Δ	TANGENT LENGTH (FT.)	LENGTH (FT.)	RADIUS (FT.)	BEGIN CURVE	END CURVE
NL	X	30+25.47	684083.648	1609610.937	57°17'45"	28°34'43"	25.47	49.88	100.00	30+00.00	30+49.88
WL	Y	50+94.69	684057.832	1609358.874	05°43'46"	08°34'57"	75.04	149.79	1000.00	50+19.66	51+69.45
	Z	52+23.85	684023.985	1609483.803	22°55'06"	24°33'02"	54.40	107.12	250.00	51+69.45	52+76.57
NW	AA	130+69.76	684069.072	1609359.653	05°43'46"	07°58'49"	69.75	139.28	1000.00	130+00.00	131+39.28
	AB	131+96.99	684037.404	1609483.117	22°55'06"	25°59'42"	57.71	113.43	250.00	131+39.28	132+52.71
	AC	132+91.66	684056.855	1609577.798	71°37'11"	51°55'24"	38.95	72.50	80.00	132+52.71	133+25.21
	AD	133+40.91	684105.779	1609602.156	57°17'45"	17°50'41"	15.70	31.14	100.00	133+25.21	133+56.35

REF. LINE	CURVE NAME	P.I. STATION	P.I. NORTHING	P.I. EASTING	Dc	Δ	TANGENT LENGTH (FT.)	LENGTH (FT.)	RADIUS (FT.)	BEGIN CURVE	END CURVE
NR	Q	40+59.96	684110.176	1609623.565	11°27'33"	13°40'34"	59.96	119.35	500.00	40+00.00	41+19.35
EL	R	70+31.41	683990.888	1609683.567	57°17'45"	34°52'30"	31.41	60.87	100.00	70+00.00	70+60.87
	S	72+20.60	684000.205	1609874.484	06°59'45"	09°11'56"	65.89	131.50	819.00	71+54.71	72+86.21
NE	T	140+65.89	684011.932	1609868.615	06°59'45"	09°11'56"	65.89	131.36	819.00	140+00.00	141+31.50
	U	142+38.31	684003.515	1609696.118	57°17'45"	32°10'41"	28.84	56.16	100.00	142+09.47	142+65.63
	V	142+90.10	684029.675	1609649.661	114°35'30"	52°09'36"	24.47	45.52	50.00	142+65.63	143+11.15
	W	143+76.06	684118.088	1609636.517	11°27'33"	14°47'38"	64.91	129.10	500.00	143+11.15	144+40.25



CROSS REFERENCES	
SHEET NO.	DESCRIPTION
2	SCHEMATIC PLAN
4	ROUNDBOUT GEOMETRIC DETAILS

NOTE: GROUND COORDINATES USED THROUGHOUT PLAN SET

* CENTER OF ROUNDBOUT			
BASELINE CONST. SELMA PIKE STA. 213+95.06, 13.23' LT			
NORTHING = 683998.428			
EASTING = 1609592.600			
RADIUS = 65.00'			
		NORTHING	EASTING
1	0+09.16 CC = 70+00.00 EL	684007.557	1609656.955
2	0+60.74 CC = 40+00.00 NR	684050.708	1609631.223
3	0+99.16 CC = 30+00.00 NL	684063.361	1609595.538
4	1+67.91 CC = 52+76.57 WL	684032.861	1609537.470
5	2+06.17 CC = 63+38.53 WR	683996.462	1609527.629
6	2+76.22 CC = 12+86.03 SL	683940.265	1609563.580
7	3+14.68 CC = 22+81.09 SR	683933.967	1609600.956
8	3+76.16 CC = 80+00.00 ER	683967.485	1609649.762

REF. LINE	CURVE NAME	P.I. STATION	P.I. NORTHING	P.I. EASTING	Dc	Δ	TANGENT LENGTH (FT.)	LENGTH (FT.)	RADIUS (FT.)	BEGIN CURVE	END CURVE
SL	A	12+03.39	683858.696	1609587.997	14°19'26"	24°02'01"	85.15	167.79	400.00	11+18.25	12+86.03
WR	B	60+74.18	684067.681	1609273.457	06°59'45"	10°21'04"	74.18	147.95	819.00	60+00.00	61+47.95
	C1	62+26.01	684023.355	1609419.099	10°59'50"	07°06'29"	32.36	64.64	521.00	61+93.65	62+58.29
	C2	63+18.69	684007.536	1609510.498	57°17'46"	23°03'32"	20.40	40.25	100.00	62+98.29	63+38.53
SW	D	110+95.69	683857.810	1609576.791	14°19'26"	26°54'21"	95.69	187.84	400.00	110+00.00	111+87.84
	E	112+04.38	683963.571	1609539.262	81°51'04"	26°35'06"	16.54	32.48	70.00	111+87.84	112+20.32
	F	112+50.95	683996.264	1609505.263	57°17'45"	34°03'29"	30.63	59.44	100.00	112+20.32	112+79.76
	G1	113+39.40	684011.658	1609416.318	10°59'50"	07°06'29"	32.36	64.64	521.00	113+07.04	113+71.68
	G2	114+96.78	684057.505	1609265.678	06°59'45"	10°21'04"	74.18	147.95	819.00	114+22.60	115+70.56

REF. LINE	CURVE NAME	P.I. STATION	P.I. NORTHING	P.I. EASTING	Dc	Δ	TANGENT LENGTH (FT.)	LENGTH (FT.)	RADIUS (FT.)	BEGIN CURVE	END CURVE
SR	H	20+30.01	683686.749	1609565.759	06°59'45"	04°11'51"	30.01	60.00	819.00	20+00.00	20+60.00
	I	21+41.76	683796.251	1609588.170	17°31'18"	10°30'47"	30.08	60.00	327.00	21+11.67	21+71.67
	J	22+58.66	683913.298	1609590.323	57°17'45"	26°10'15"	23.24	45.68	100.00	22+35.41	22+81.09
ER	K	81+49.86	684009.277	1609793.673	07°38'22"	22°35'55"	149.86	295.82	750.00	80+00.00	82+95.82
SE	L	120+30.01	683671.389	1609574.865	06°59'45"	04°11'51"	30.01	60.00	819.00	120+00.00	120+60.00
	M	121+56.08	683794.926	1609600.148	17°31'18"	10°30'47"	30.08	60.00	327.00	121+26.00	121+86.00
	N	122+52.34	683891.330	1609601.921	57°17'45"	13°53'53"	12.19	24.26	100.00	122+40.15	122+64.40
	O	123+03.25	683940.631	1609615.086	81°51'04"	58°02'56"	38.84	70.92	70.00	122+64.40	123+35.32
	P	124+90.68	683997.408	1609800.796	07°38'22"	23°24'22"	155.36	306.38	750.00	123+35.32	126+41.70

ROUNDBOUT GEOMETRIC LAYOUT

DESIGN AGENCY  
  
 burgessniple.com

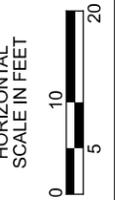
DESIGNER  
 NJL

REVIEWER  
 JED 10-1-21

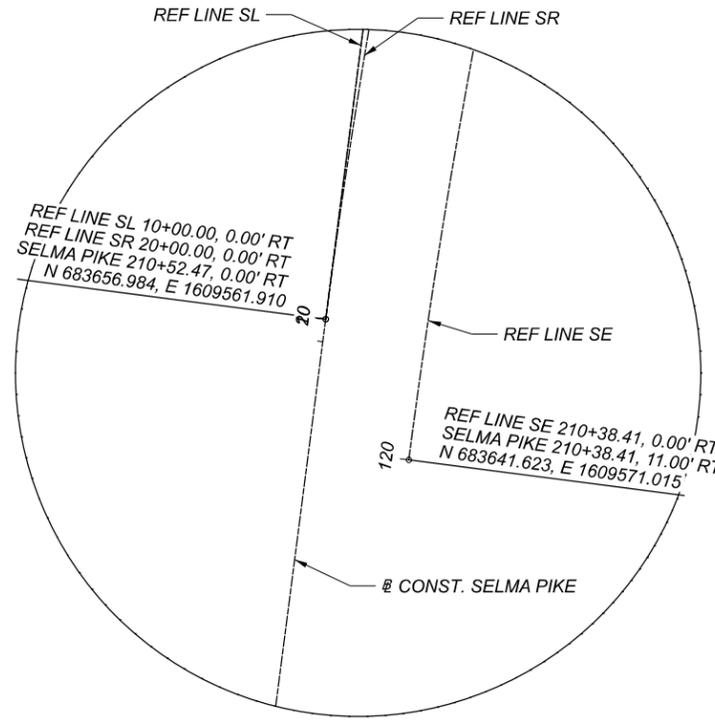
PROJECT ID  
 109451

SHEET TOTAL  
 3 102

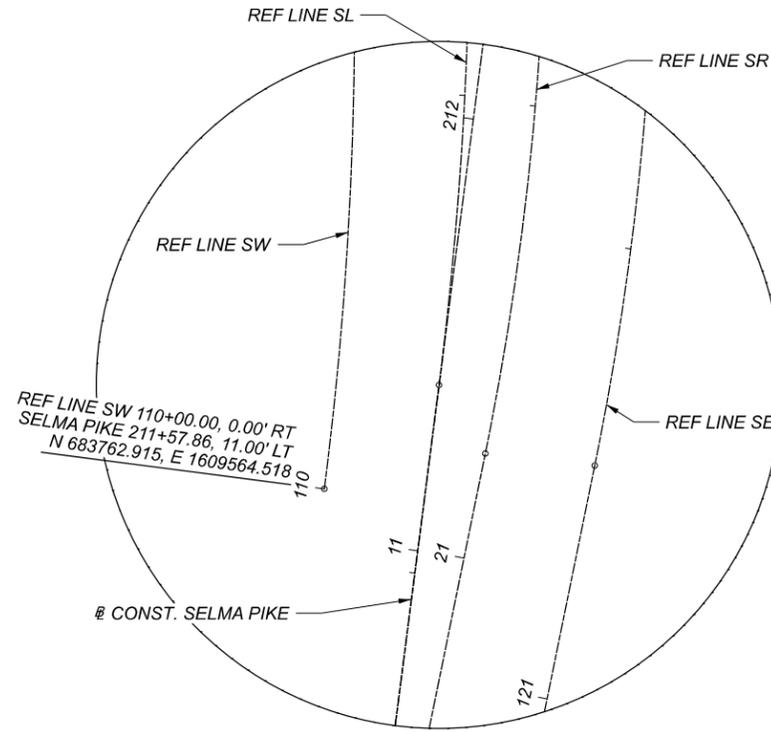
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
2	SCHEMATIC PLAN
3	ROUNDBOUT GEOMETRIC LAYOUT



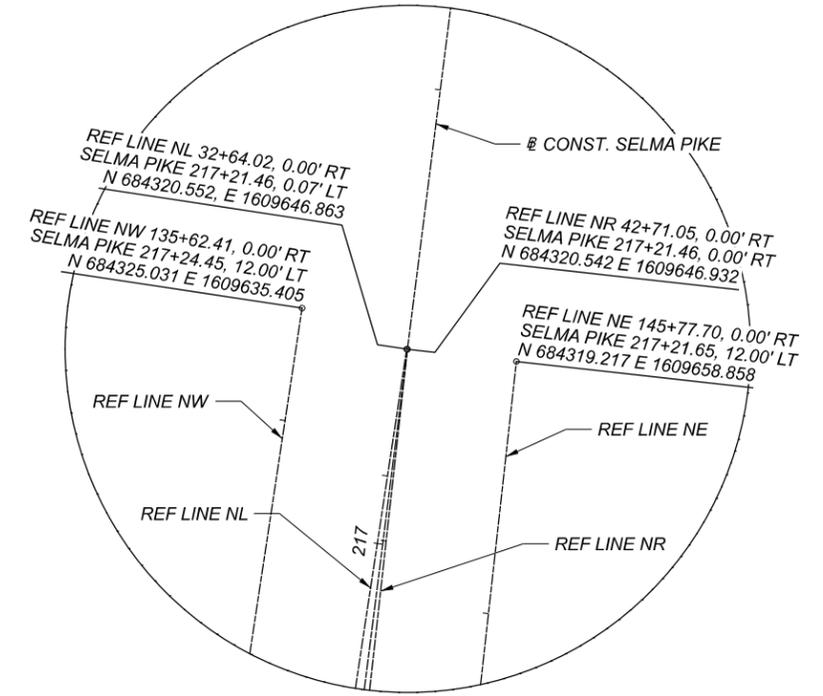
ROUNDBOUT GEOMETRIC DETAILS



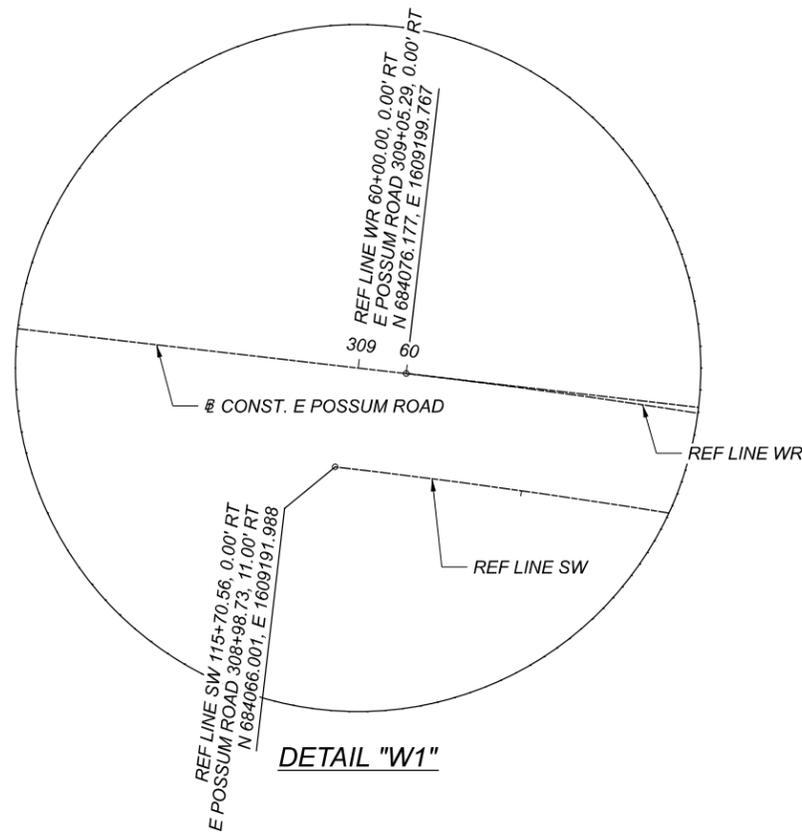
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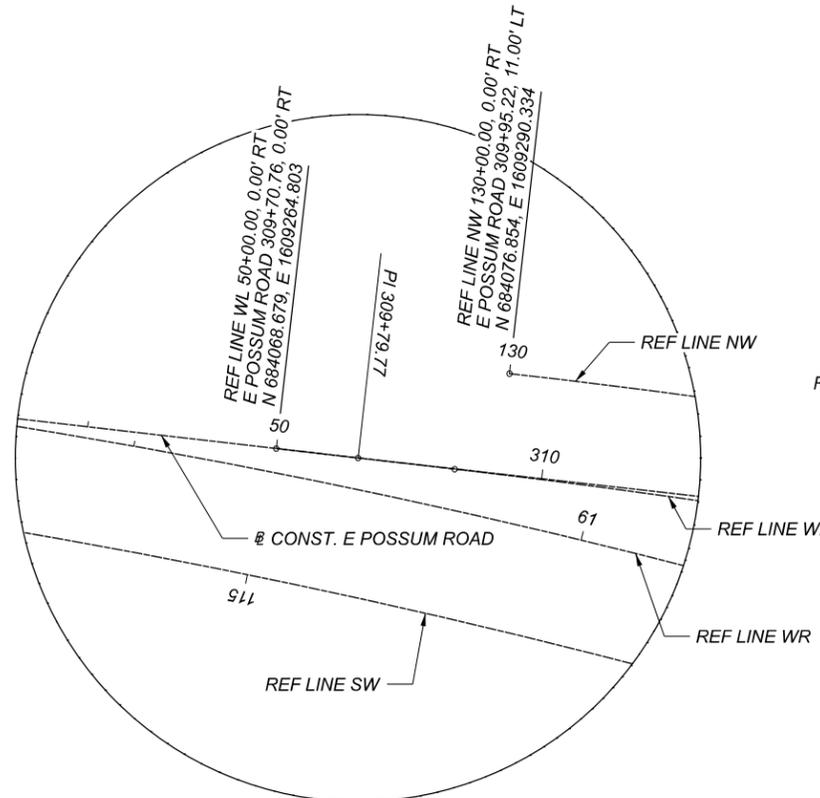
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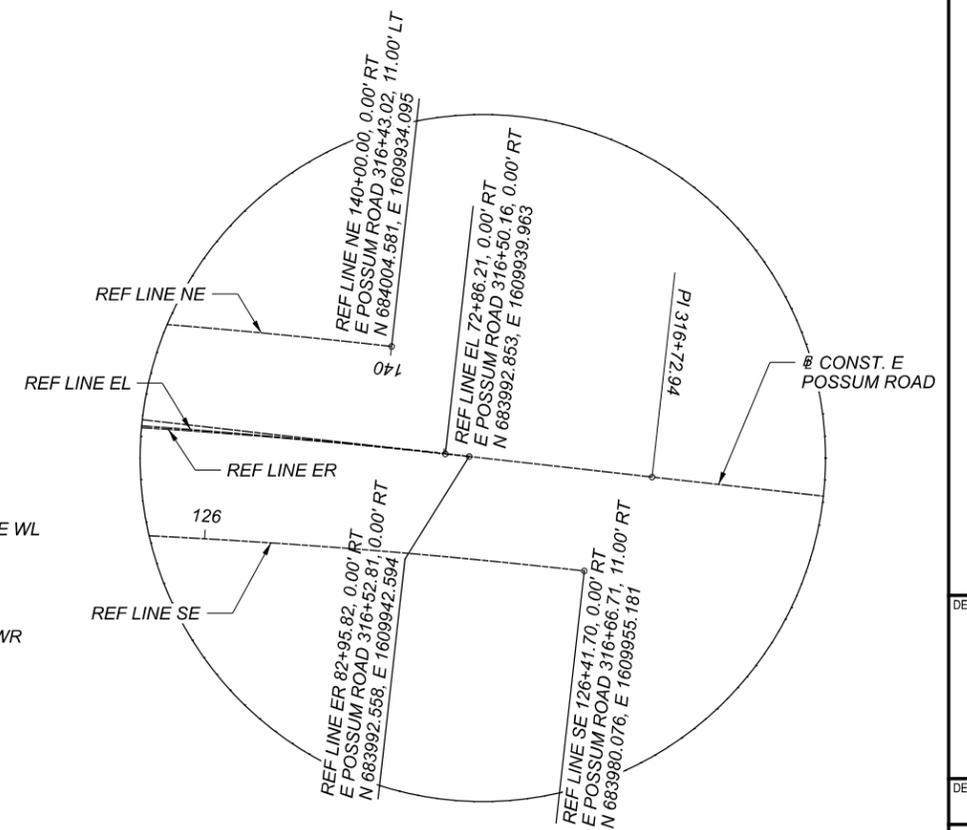
DETAIL "N1"



DETAIL "W1"



DETAIL "W2"



DETAIL "E1"

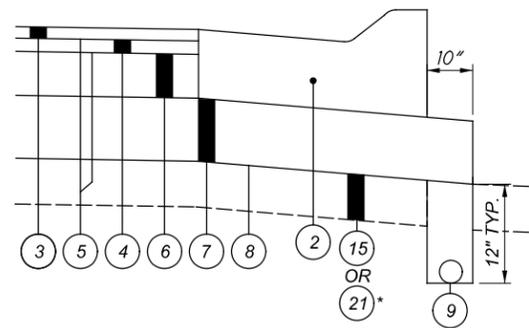
DESIGN AGENCY

DESIGNER  
NJL

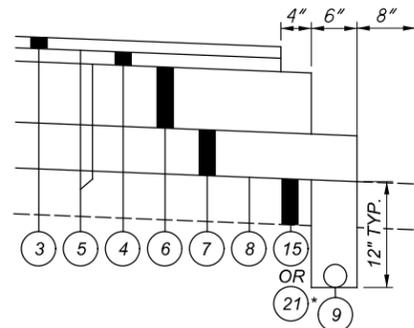
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JED 10-1-21

PROJECT ID  
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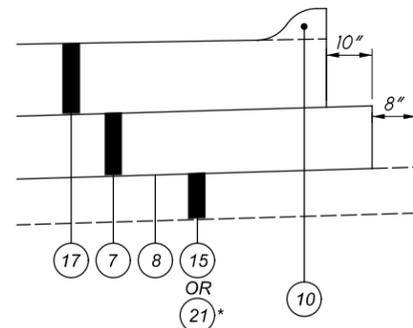
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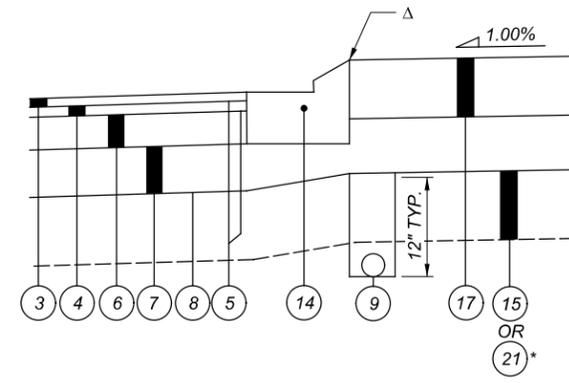
DETAIL 1  
BASE AND SUBBASE STEP



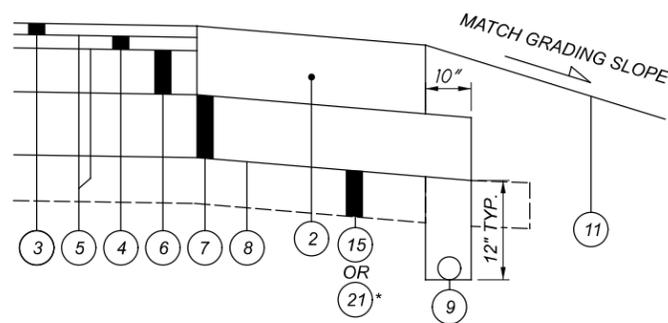
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BASE AND SUBBASE STEP



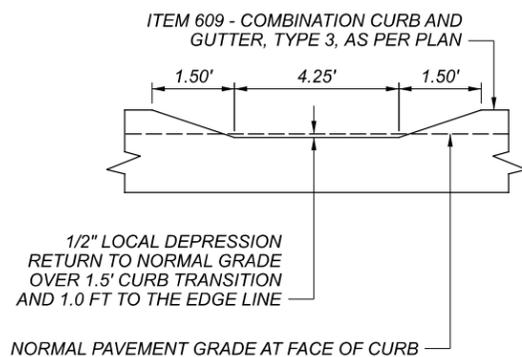
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BASE AND SUBBASE STEP



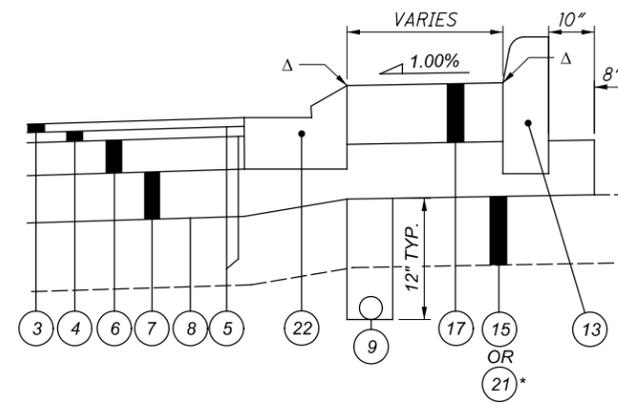
DETAIL 4  
INTERIOR TRUCK APRON DETAIL



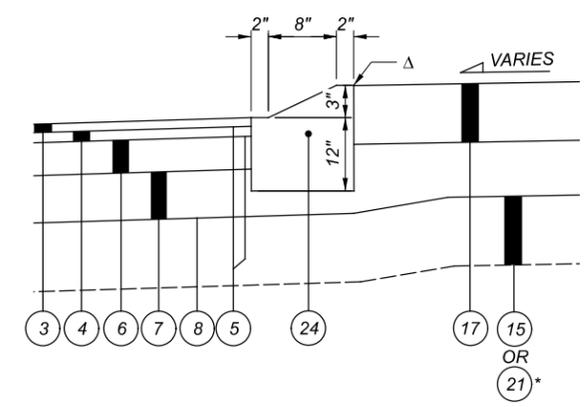
DETAIL 5  
CURB OPENING  
FOR CURB OPENING LOCATIONS, SEE PLAN SHEETS  
FOR CURB OPENING SECTION, SEE DETAIL ON THIS SHEET



CURB OPENING SECTION  
FOR CURB OPENING LOCATIONS, SEE PLAN SHEETS



DETAIL 6  
EXTERIOR TRUCK APRON DETAIL



ITEM 609 - CURB, TYPE 3-B, AS PER PLAN  
NOT TO SCALE

TYPICAL SECTION LEGEND

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>① ITEM 659 - SEEDING &amp; MULCHING, AS PER PLAN<br/>ITEM 659 - TOPSOIL, AS PER PLAN</li> <li>② ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 3, AS PER PLAN</li> <li>③ ITEM 442 - 1.50" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A, (446)</li> <li>④ ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A, (446)</li> <li>⑤ ITEM 407 - NON-TRACKING TACK COAT (APPLICATION RATE PER CMS 407.067)</li> <li>⑥ ITEM 302 - 5" ASPHALT CONCRETE BASE, PG64-22</li> <li>⑦ ITEM 304 - 6" AGGREGATE BASE</li> <li>⑧ ITEM 204 - PROOF ROLLING</li> <li>⑨ ITEM 605 - 4" BASE PIPE UNDERDRAIN</li> <li>⑩ ITEM 609 - CURB, TYPE 3-A</li> <li>⑪ ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 2</li> <li>⑫ ITEM 254 - 1.25" PAVEMENT PLANING, ASPHALT CONCRETE</li> <li>⑬ ITEM 609 - CURB, TYPE 6</li> <li>⑭ ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 9</li> </ul> | <ul style="list-style-type: none"> <li>⑮ ITEM 204 - EXCAVATION OF SUBGRADE<br/>ITEM 204 - 12" GRANULAR MATERIAL TYPE B<br/>ITEM 204 - GEOTEXTILE FABRIC</li> <li>⑯ ITEM 441 - 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), PG64-22</li> <li>⑰ ITEM 451 - 7" REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, APP</li> <li>⑱ NOT USED</li> <li>⑲ ITEM 411 - 8" STABILIZED CRUSHED AGGREGATE</li> <li>⑳ ITEM 204 - SUBGRADE COMPACTION</li> <li>㉑* ITEM 206 - CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP<br/>ITEM 206 - CEMENT<br/>ITEM 206 - CURING COAT</li> <li>㉒ ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 9, AS PER PLAN</li> <li>㉓ ITEM 608 - 4" CONCRETE WALK</li> <li>㉔ ITEM 609 - CURB, TYPE 3-B, AS PER PLAN</li> <li>㉕‡ ITEM 690 - SPECIAL - ROCK MULCH</li> </ul> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- Ⓐ EXISTING ASPHALT CONCRETE (11")
- Ⓑ EXISTING ASPHALT CONCRETE (8")
- Ⓒ EXISTING AGGREGATE SHOULDER
- Ⓓ EXISTING CURB

REFERENCE LINE LEGEND

- CC = CENTER CIRCLE
- SL = SOUTH LEFT (SELMA PIKE)
- SR = SOUTH RIGHT (SELMA PIKE)
- NL = NORTH LEFT (SELMA PIKE)
- NR = NORTH RIGHT (SELMA PIKE)
- WL = WEST LEFT (E POSSUM ROAD)
- WR = WEST RIGHT (E POSSUM ROAD)
- EL = EAST LEFT (E POSSUM ROAD)
- ER = EAST RIGHT (E POSSUM ROAD)

TYPICAL SECTION NOTES (THIS SHEET):

1. TYPICAL SECTIONS NOT DRAWN TO SCALE
2. FOR BASELINE AND REFERENCE LINE LAYOUT, SEE SHEETS 3 & 4

3. FOR REFERENCE LINE LEGEND AND TYPICAL SECTION LEGEND, SEE BELOW (THIS SHEET)

4. FOR GRADING AND DITCH LOCATIONS, SEE CROSS SECTIONS

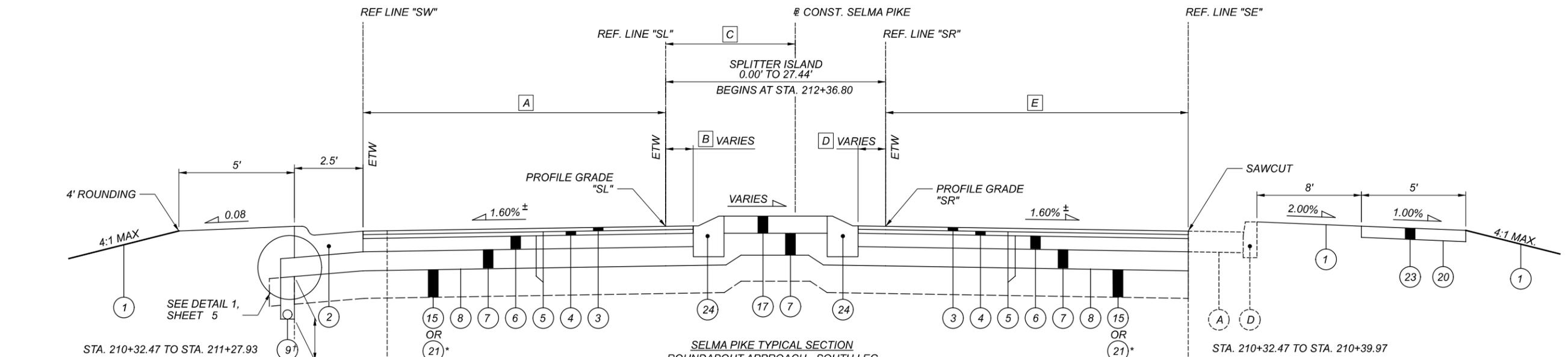
ETW = EDGE OF TRAVELED WAY

± MATCH EXISTING AT TIE-IN

Δ PREFORM EXPANSION JOINT WITH JOINT SEAL PER BP-2.2

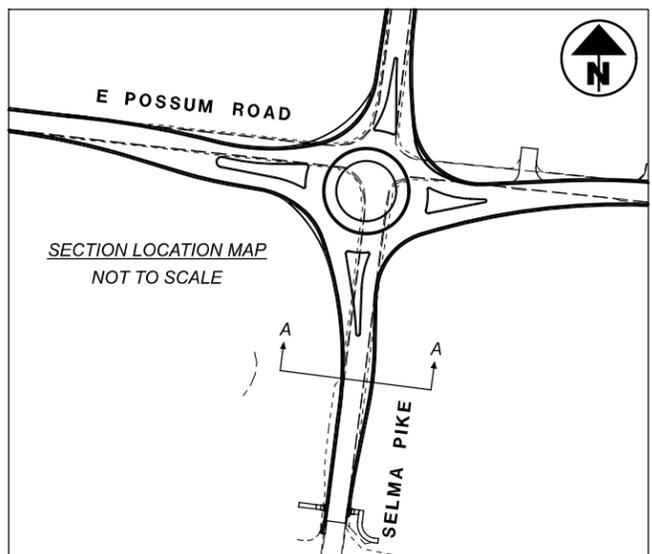
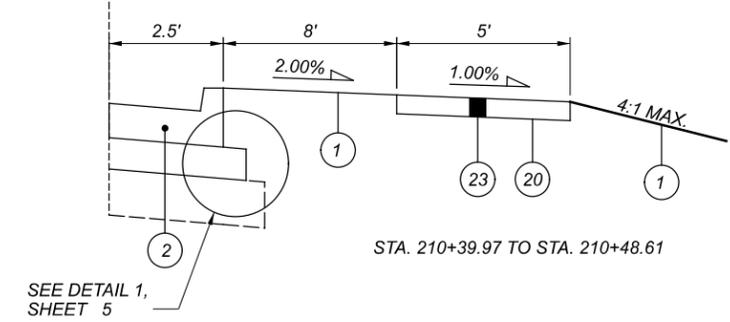
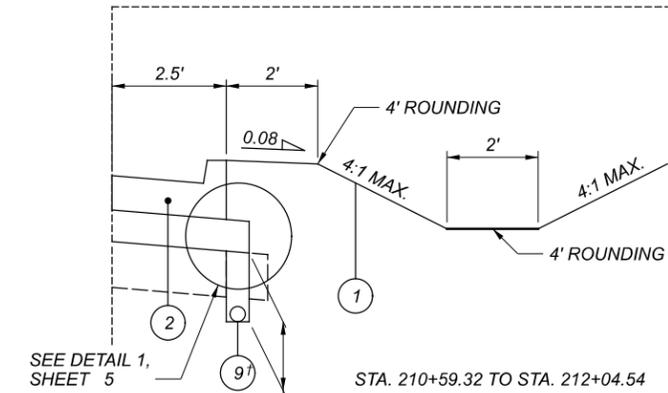
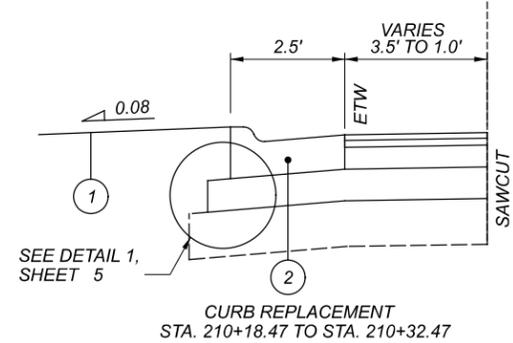
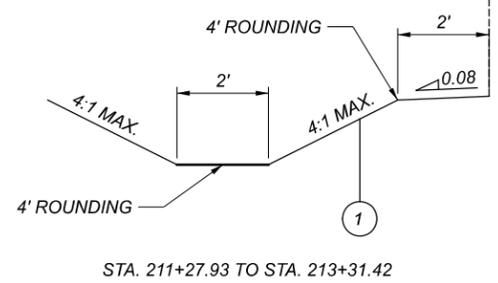
\* ROADWAY ALTERNATE. SEE SHEET 13 FOR DETAILS

‡ LANDSCAPING ALTERNATE. SEE SHEET 13 FOR DETAILS



**SELMA PIKE TYPICAL SECTION**  
 ROUNDABOUT APPROACH - SOUTH LEG  
 SECTION A-A  
 STA. 210+32.47 TO STA. 213+31.42

- A** 10.50' FROM STA. 210+38.41 TO 211+57.03  
 VARIES FROM 10.50' AT STA. 211+57.03 TO 15.20' AT STA. 213+31.42
- B** 1.00' FROM STA. 212+38.71 TO 212+85.19  
 VARIES FROM 1.00' AT STA. 212+85.19 TO 3.02' AT STA. 213+22.89
- C** VARIES FROM 0.00' AT STA. 211+70.72 TO 33.70' AT STA. 213+31.42
- D** VARIES FROM 3.00' AT STA. 212+39.86 TO 2.00' AT STA. 212+88.23  
 2.00' FROM STA. 212+88.23 TO 213+27.76
- E** VARIES FROM 11.00' AT STA. 210+38.41 TO 12.00' AT STA. 211+12.42  
 12.00' FROM STA. 211+12.42 TO 212+76.58  
 VARIES FROM 12.00' AT STA. 212+76.58 TO 16.71' AT STA. 213+31.42



**TYPICAL SECTION NOTES (THIS SHEET):**

1. TYPICAL SECTIONS NOT DRAWN TO SCALE
2. FOR BASELINE AND REFERENCE LINE LAYOUT, SEE SHEETS 3 & 4
3. FOR REFERENCE LINE LEGEND AND TYPICAL SECTION LEGEND, SEE SHEET 5
4. FOR GRADING AND DITCH LOCATIONS, SEE CROSS SECTIONS

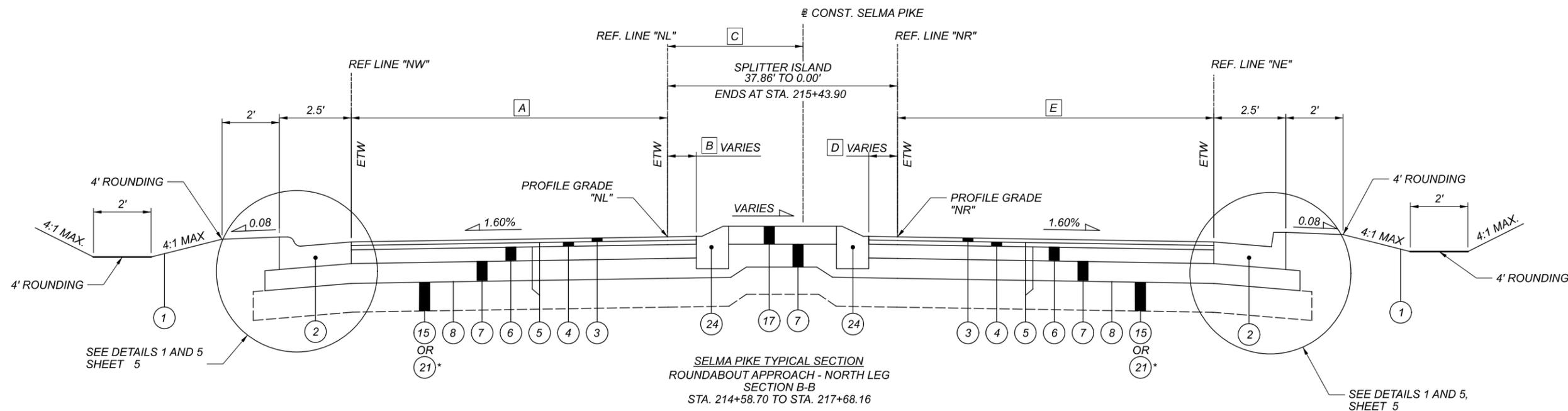
ETW = EDGE OF TRAVELED WAY  
 ± MATCH EXISTING AT TIE-IN  
 \* ROADWAY ALTERNATE. SEE SHEET 13 FOR DETAILS  
 † UNDERDRAINS WILL ONLY BE PLACED WITHIN THE FOLLOWING STATION RANGES

LEFT SIDE:  
 STA. 210+57.00 TO STA. 211+25.00

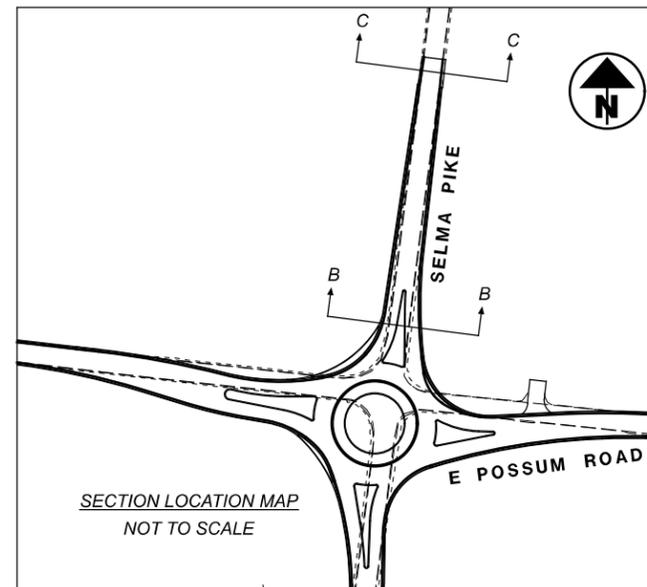
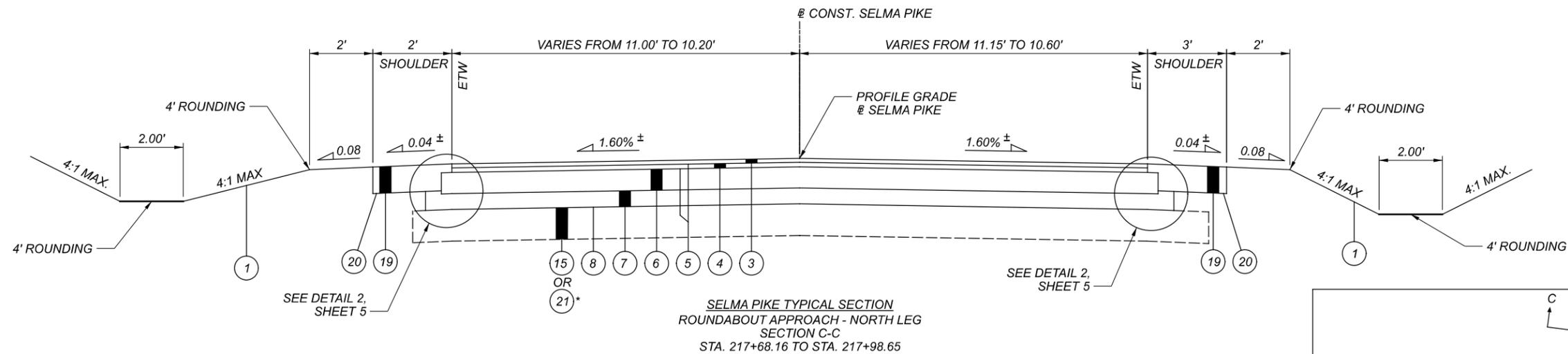
RIGHT SIDE:  
 STA. 210+57.00 TO STA. 211+25.00  
 STA. 212+00.39 TO STA. 213+31.42

TYPICAL SECTIONS

DESIGN AGENCY	B&N burgessniple.com
DESIGNER	NJL
REVIEWER	JED 10-1-21
PROJECT ID	109451
SHEET	TOTAL 6   102



- SELMA PIKE TYPICAL SECTION ROUNDABOUT APPROACH - NORTH LEG SECTION B-B**  
STA. 214+58.70 TO STA. 217+68.16
- A** VARIES FROM 16.34' AT STA. 214+59.85 TO 12.00' AT STA. 215+18.17  
12.00' FROM STA. 215+18.17 TO 217+24.45  
VARIES FROM 12.00' AT STA. 217+24.45 TO 11.00' AT STA. 217+68.16
  - B** 2.00' FROM STA. 214+63.93 TO 215+04.61  
VARIES FROM 2.00' AT STA. 215+04.61 TO 3.00' AT STA. 215+42.08
  - C** VARIES FROM 18.51' AT STA. 214+59.85 TO 0.07' AT STA. 217+21.46
  - D** VARIES FROM 4.02' AT STA. 214+63.89 TO 1.00' AT STA. 215+17.77  
1.00' FROM STA. 215+17.77 TO 215+42.11
  - E** VARIES FROM 14.99' AT STA. 214+58.70 TO 12.00' AT STA. 215+84.02  
12.00' FROM STA. 215+84.02 TO 217+21.65  
VARIES FROM 12.00' AT STA. 217+21.65 TO 11.15' AT STA. 217+68.16



**TYPICAL SECTION NOTES (THIS SHEET):**

1. TYPICAL SECTIONS NOT DRAWN TO SCALE
2. FOR BASELINE AND REFERENCE LINE LAYOUT, SEE SHEETS 3 & 4
3. FOR REFERENCE LINE LEGEND AND TYPICAL SECTION LEGEND, SEE SHEET 5
4. FOR GRADING AND DITCH LOCATIONS, SEE CROSS SECTIONS
5. NO UNDERDRAINS WILL BE PLACED ON THIS LEG DUE TO SHALLOW DITCH DEPTH

ETW = EDGE OF TRAVELED WAY

± MATCH EXISTING AT TIE-IN

\* ROADWAY ALTERNATE. SEE SHEET 13 FOR DETAILS

DESIGN AGENCY

**B&N**  
burgessniple.com

DESIGNER

NJL

REVIEWER

JED 10-1-21

PROJECT ID

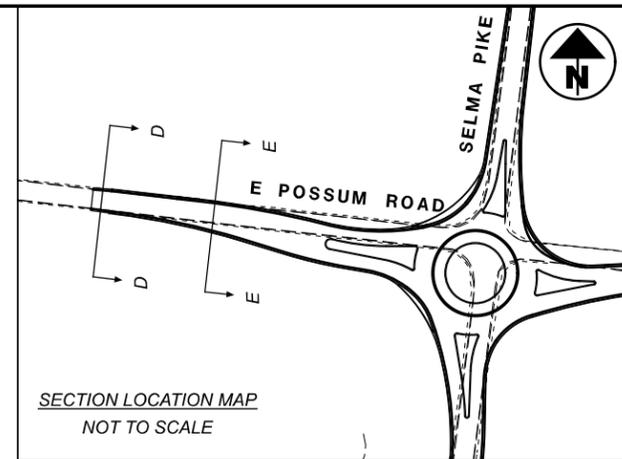
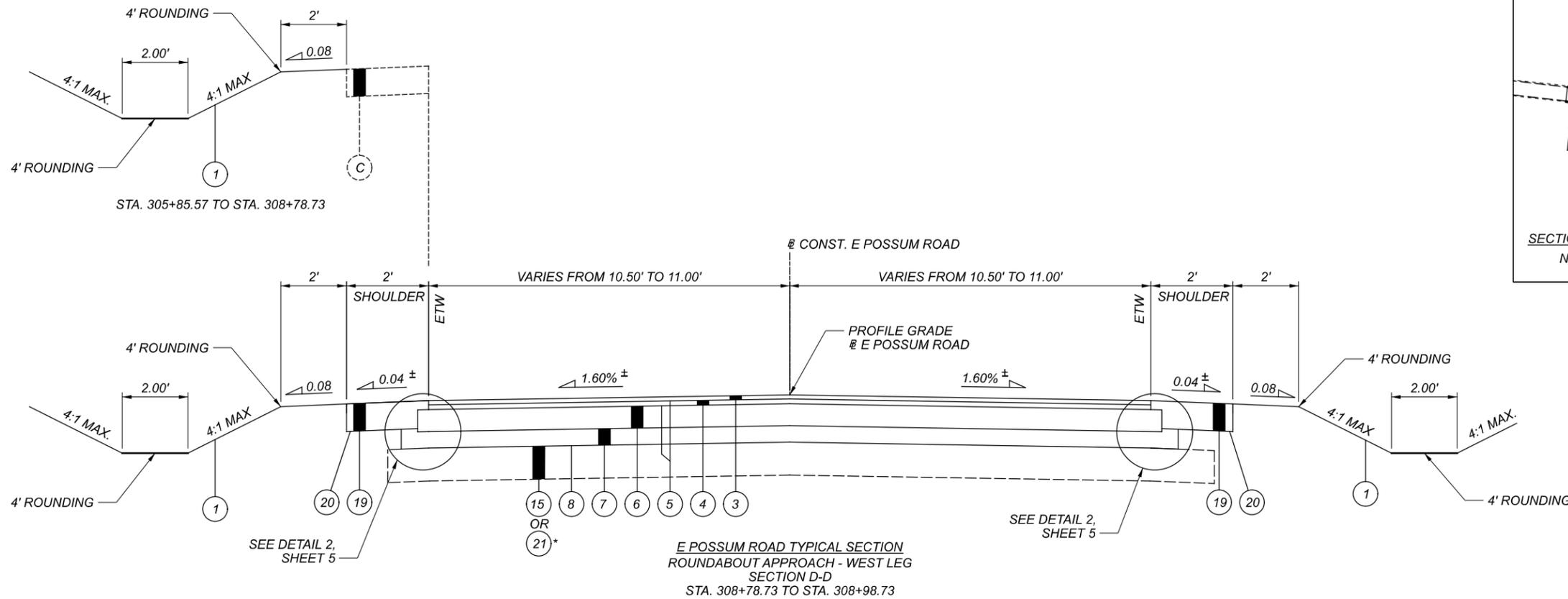
109451

SHEET

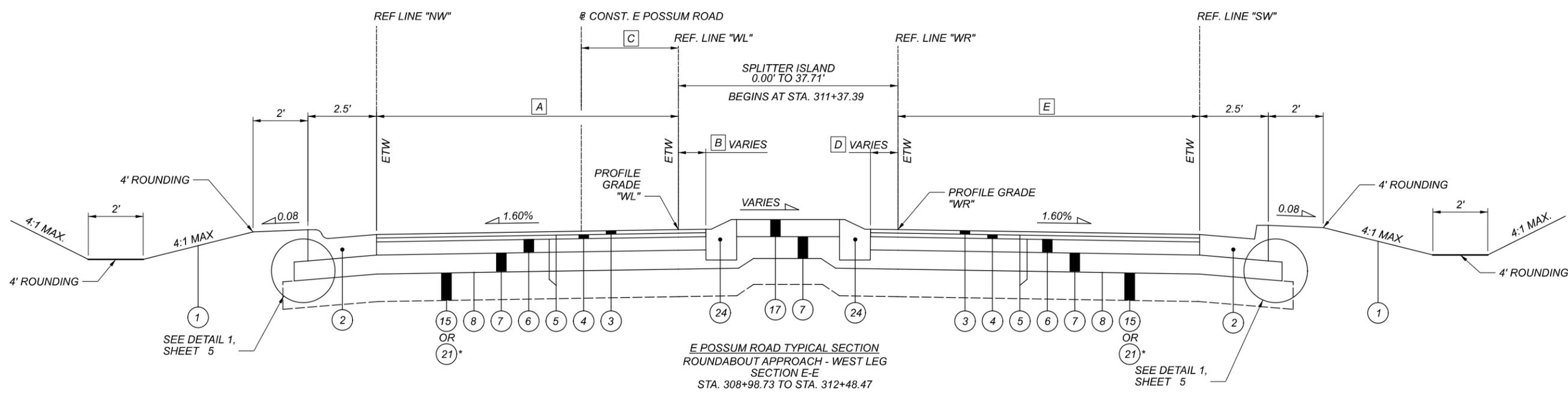
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TOTAL

102



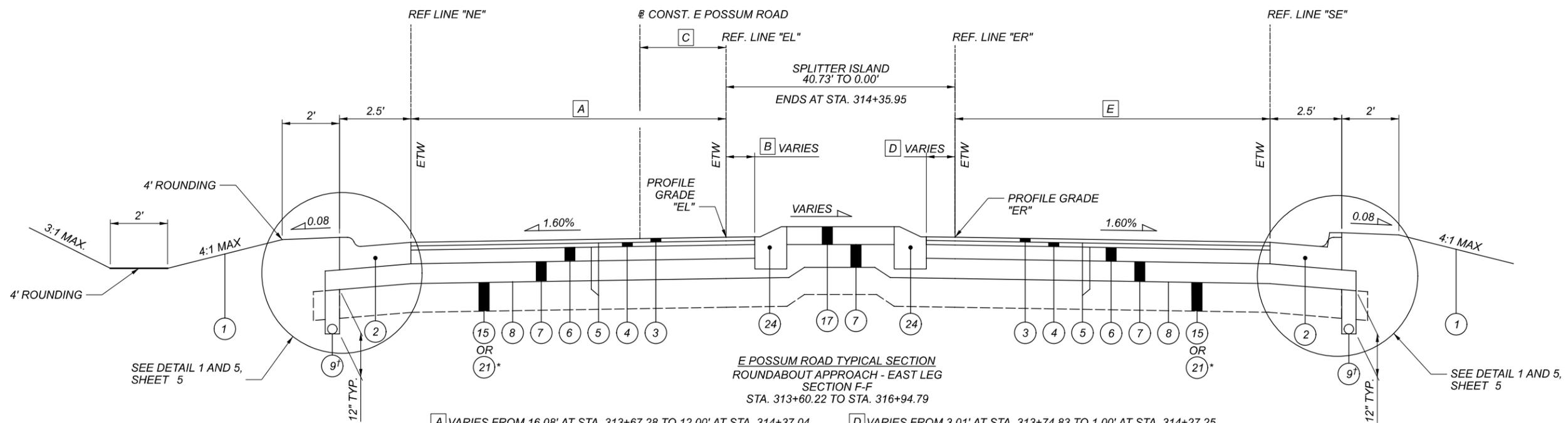
- TYPICAL SECTION NOTES (THIS SHEET):**
1. TYPICAL SECTIONS NOT DRAWN TO SCALE
  2. FOR BASELINE AND REFERENCE LINE LAYOUT, SEE SHEETS 3 & 4
  3. FOR REFERENCE LINE LEGEND AND TYPICAL SECTION LEGEND, SEE SHEET 5
  4. FOR GRADING AND DITCH LOCATIONS, SEE CROSS SECTIONS
  5. NO UNDERDRAINS WILL BE PLACED ON THIS LEG DUE TO SHALLOW DITCH DEPTH
- ETW = EDGE OF TRAVELED WAY  
 ± MATCH EXISTING AT TIE-IN  
 \* ROADWAY ALTERNATE. SEE SHEET 13 FOR DETAILS



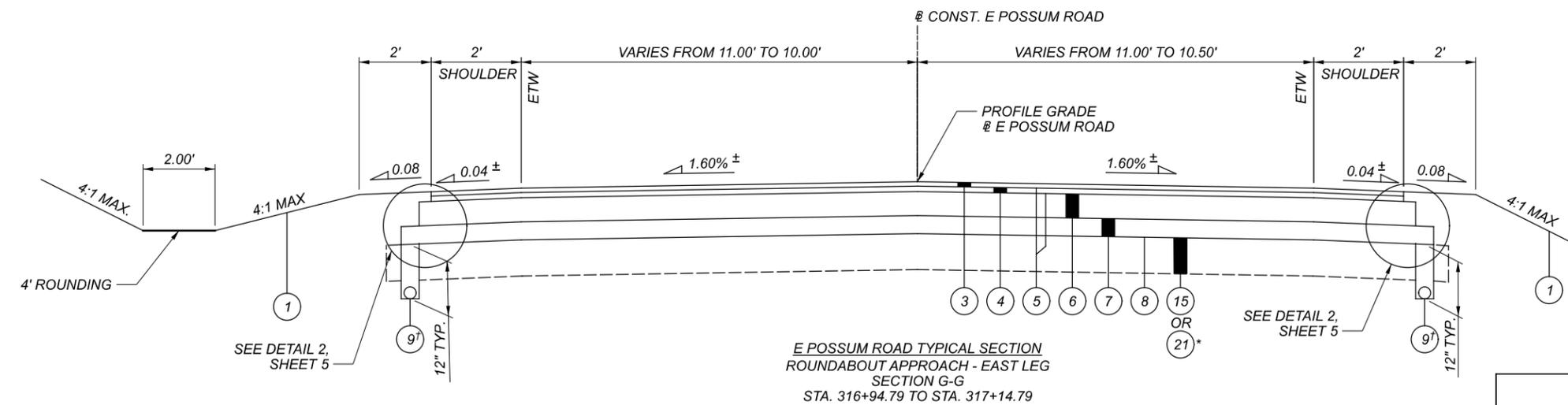
- E POSSUM ROAD TYPICAL SECTION ROUNDABOUT APPROACH - WEST LEG SECTION E-E**  
 STA. 308+98.73 TO STA. 312+48.47
- A** 11.00' FROM STA. 308+98.73 TO 309+79.75  
 VARIES FROM 11.00' AT STA. 309+79.75 TO 15.44' AT STA. 312+45.72
  - B** 1.00' FROM STA. 311+44.19 TO 312+03.96  
 VARIES FROM 1.00' AT STA. 312+03.86 TO 3.02' AT STA. 312+35.72
  - C** VARIES FROM 0.00' AT STA. 309+79.77 TO 14.59' AT STA. 311+77.27  
 VARIES FROM 14.59' AT STA. 311+77.27 TO 5.15' AT STA. 312+45.72
  - D** VARIES FROM 3.00' AT STA. 311+42.90 TO 2.00' AT STA. 312+03.77  
 2.00' FROM STA. 312+03.77 TO 312+36.59
  - E** VARIES FROM 11.00' AT STA. 308+98.73 TO 12.00' AT STA. 310+52.40  
 12.00' FROM STA. 310+52.40 TO 311+87.93  
 VARIES FROM 12.00' AT STA. 311+87.93 TO 16.57' AT STA. 312+40.00

TYPICAL SECTIONS

DESIGN AGENCY	B&N burgessniple.com
DESIGNER	NJL
REVIEWER	JED
PROJECT ID	10-1-21
SHEET	109451
TOTAL	8   102



- E POSSUM ROAD TYPICAL SECTION ROUNDABOUT APPROACH - EAST LEG SECTION F-F**  
STA. 313+60.22 TO STA. 316+94.79
- A** VARIES FROM 16.08' AT STA. 313+67.28 TO 12.00' AT STA. 314+37.04  
12.00' FROM STA. 314+37.04 TO 316+50.16  
VARIES FROM 12.00' AT STA. 316+50.16 TO 11.00' AT STA. 316+94.79
  - B** 2.00' FROM STA. 313+71.27 TO 314+18.32  
VARIES FROM 2.00' AT STA. 314+18.32 TO 3.01' AT STA. 314+34.49
  - C** VARIES FROM 16.95' AT STA. 313+67.28 TO 26.82' AT STA. 314+10.39  
VARIES FROM 26.82' AT STA. 314+10.39 TO 0.00' AT STA. 316+50.16
  - D** VARIES FROM 3.01' AT STA. 313+74.83 TO 1.00' AT STA. 314+27.25  
1.00' FROM STA. 314+27.25 TO 314+35.22
  - E** VARIES FROM 15.52' AT STA. 313+64.60 TO 11.00' AT STA. 316+66.71  
11.00' FROM STA. 316+66.71 TO 316+94.79



**E POSSUM ROAD TYPICAL SECTION ROUNDABOUT APPROACH - EAST LEG SECTION G-G**  
STA. 316+94.79 TO STA. 317+14.79

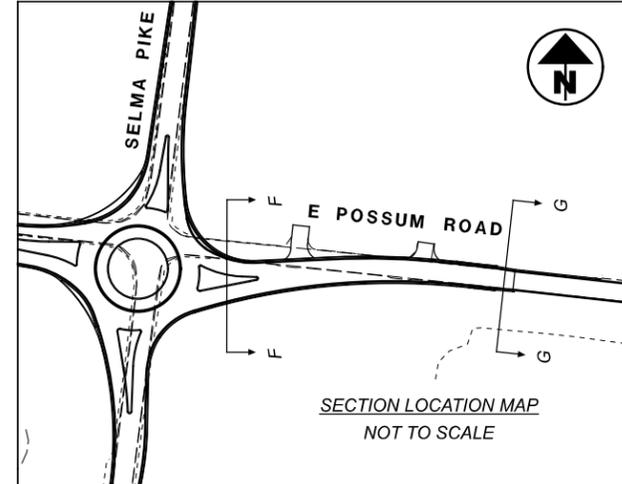
**TYPICAL SECTION NOTES (THIS SHEET):**

1. TYPICAL SECTIONS NOT DRAWN TO SCALE
2. FOR BASELINE AND REFERENCE LINE LAYOUT, SEE SHEETS 3 & 4
3. FOR REFERENCE LINE LEGEND AND TYPICAL SECTION LEGEND, SEE SHEET 5
4. FOR GRADING AND DITCH LOCATIONS, SEE CROSS SECTIONS

ETW = EDGE OF TRAVELED WAY

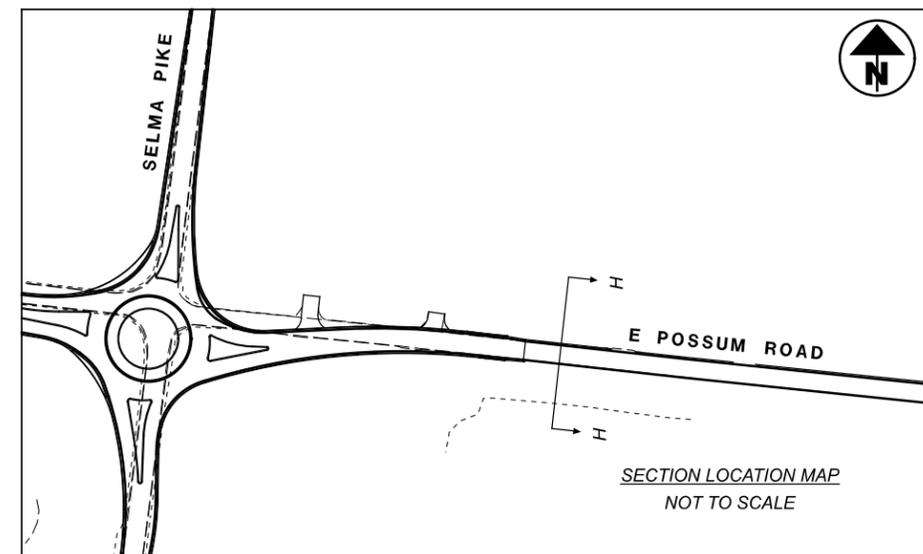
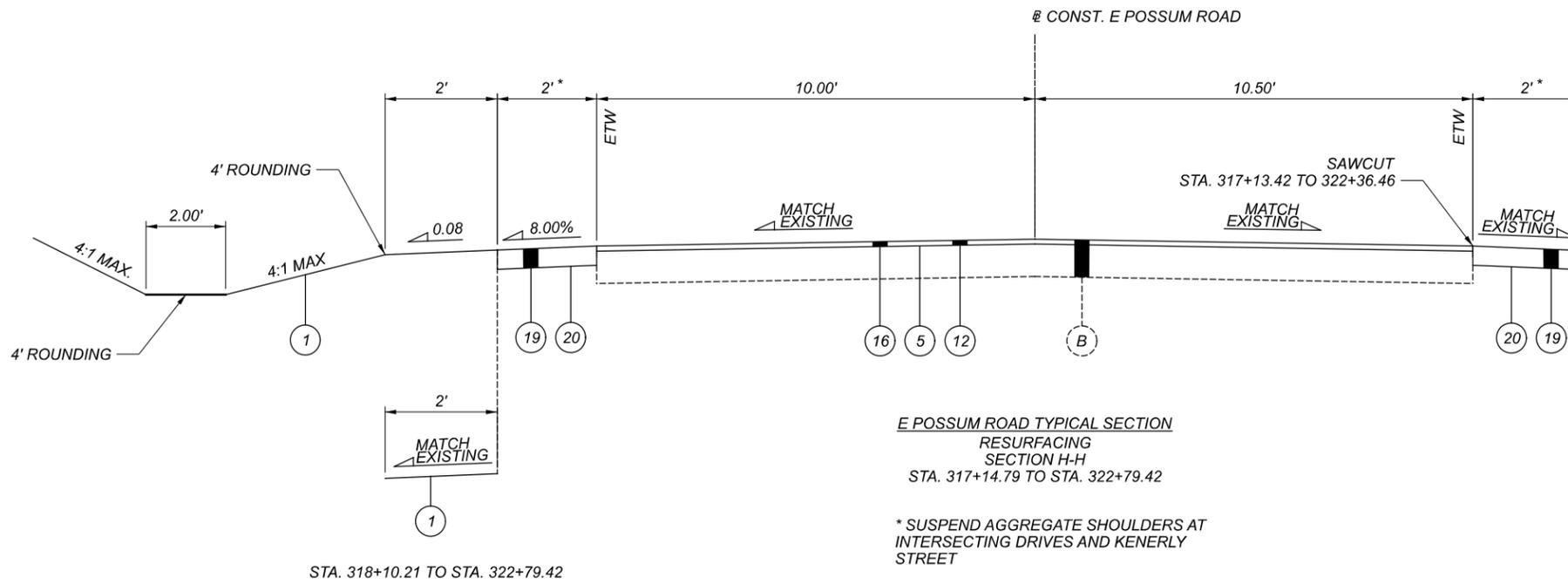
\* ROADWAY ALTERNATE. SEE SHEET 13 FOR DETAILS

† UNDERDRAINS WILL ONLY BE PLACED WITHIN THE FOLLOWING STATION RANGE (BOTH SIDES):  
STA. 313+60.22 TO STA. 316+83.19



DESIGN AGENCY	B&N burgessniple.com
DESIGNER	NJL
REVIEWER	JED 10-1-21
PROJECT ID	109451
SHEET	9
TOTAL	102

CLA-CR351-7.92



TYPICAL SECTIONS

CLA-CR351-7.92

DESIGN AGENCY

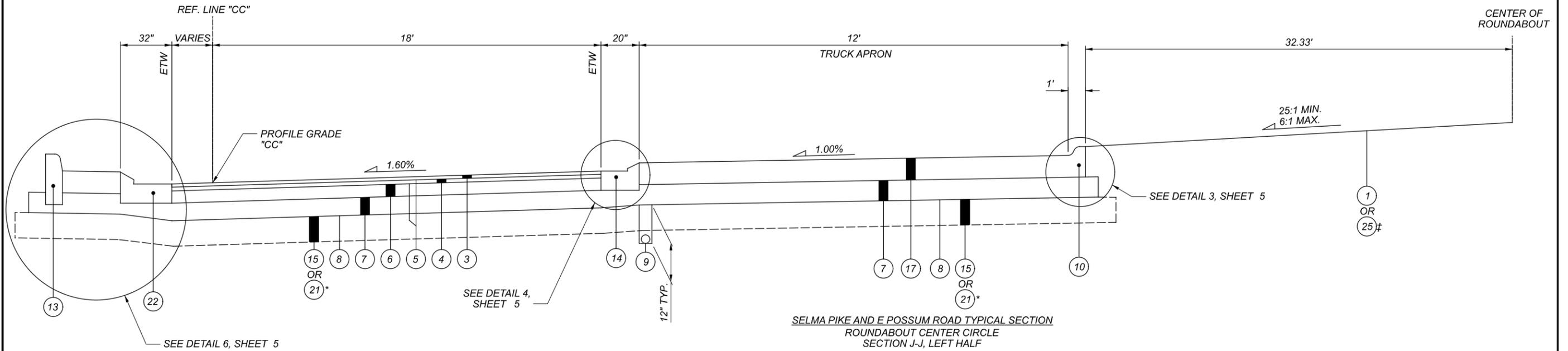
**B&N**  
burgessniple.com

DESIGNER  
NJL

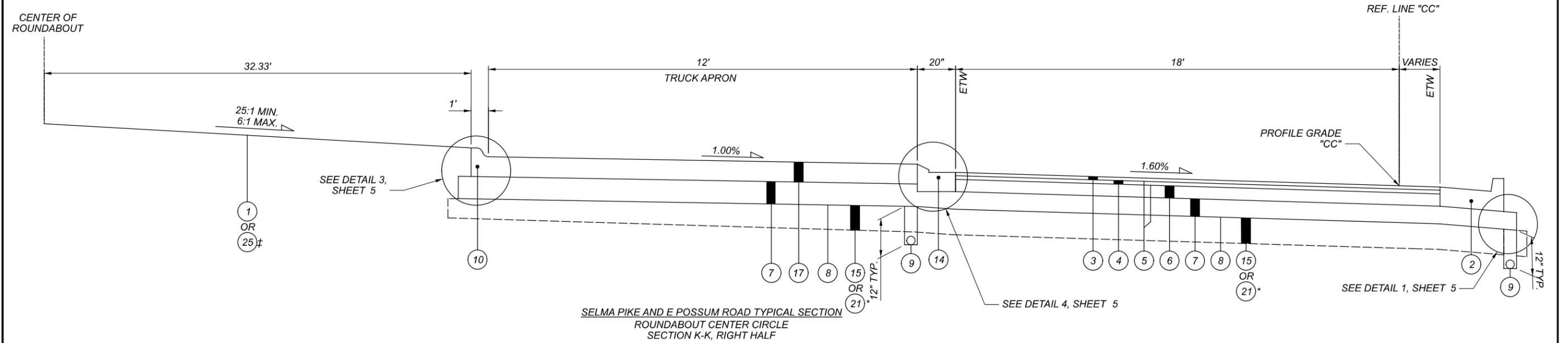
REVIEWER  
JED 10-1-21

PROJECT ID  
109451

SHEET	TOTAL
10	102



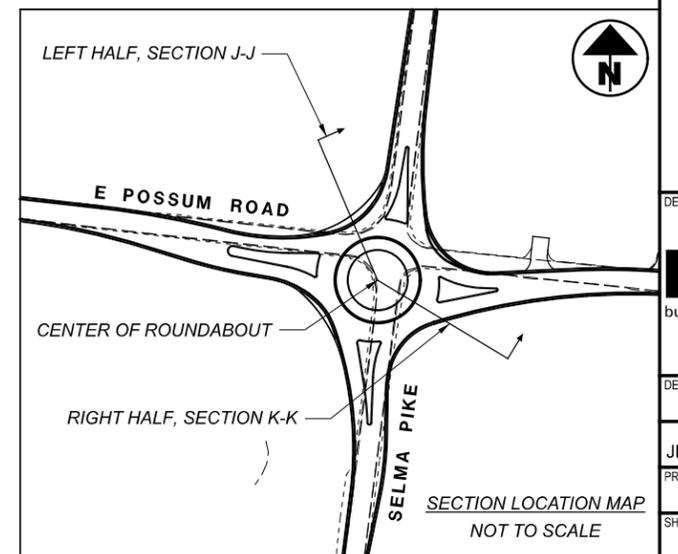
SELMA PIKE AND E POSSUM ROAD TYPICAL SECTION  
 ROUNDABOUT CENTER CIRCLE  
 SECTION J-J, LEFT HALF



SELMA PIKE AND E POSSUM ROAD TYPICAL SECTION  
 ROUNDABOUT CENTER CIRCLE  
 SECTION K-K, RIGHT HALF

TYPICAL SECTION NOTES (THIS SHEET):

1. TYPICAL SECTIONS NOT DRAWN TO SCALE
  2. FOR BASELINE AND REFERENCE LINE LAYOUT, SEE SHEETS 3 & 4
  3. FOR REFERENCE LINE LEGEND AND TYPICAL SECTION LEGEND, SEE SHEET 5
  4. FOR GRADING AND DITCH LOCATIONS, SEE CROSS SECTIONS
- ETW = EDGE OF TRAVELED WAY
- \* ROADWAY ALTERNATE. SEE SHEET 13 FOR DETAILS
- ‡ LANDSCAPING ALTERNATE. SEE SHEET 13 FOR DETAILS



TYPICAL SECTIONS

CLA-CR351-7.92

DESIGN AGENCY

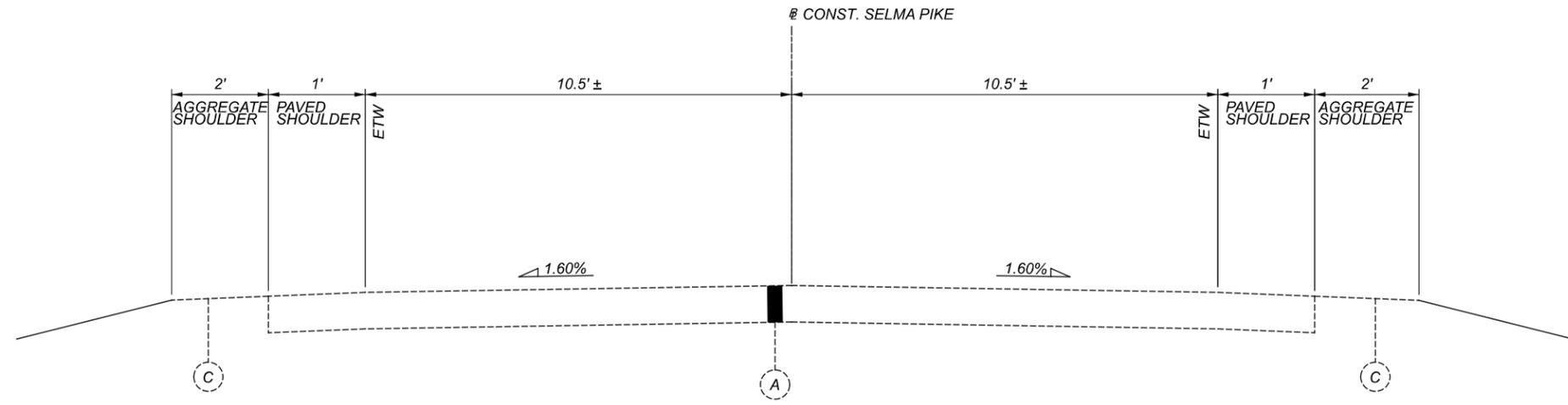
**B&N**  
 burgessniple.com

DESIGNER  
 NJL

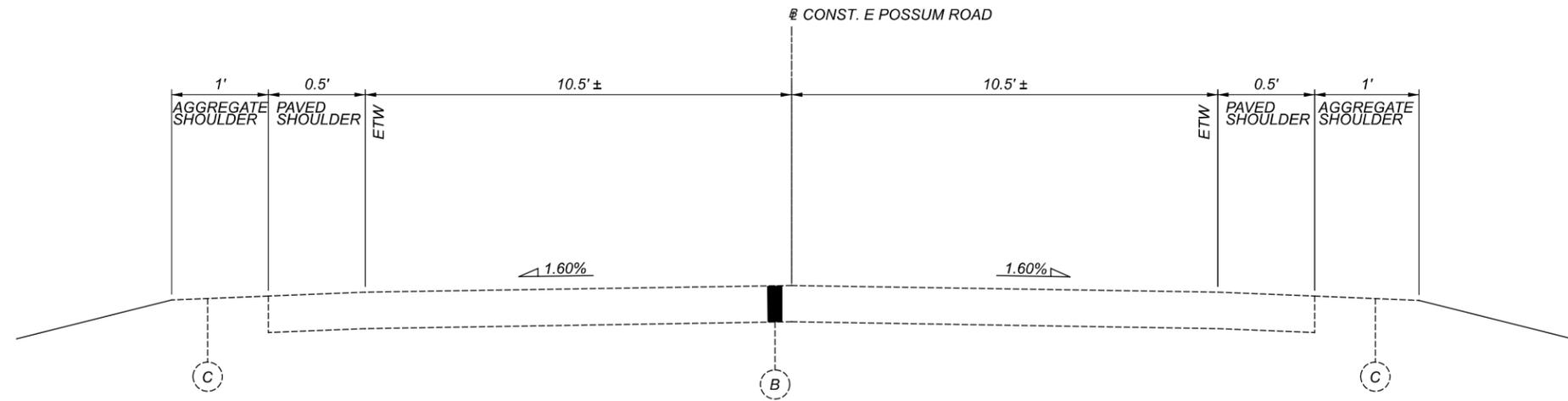
REVIEWER  
 JED 10-1-21

PROJECT ID  
 109451

SHEET TOTAL  
 11 102



EXISTING SELMA PIKE TYPICAL SECTION  
 STA. 210+32.47  
 STA. 217+98.65



EXISTING E POSSUM ROAD TYPICAL SECTION  
 STA. 308+78.73  
 STA. 322+79.42

DESIGN AGENCY



DESIGNER  
 NJL

REVIEWER  
 JED 10-1-21

PROJECT ID  
 109451

SHEET TOTAL  
 12 102

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

**TELECOM:**  
AT&T  
ATTN: HOWARD LAUDERMILK  
7201 FAR HILLS AVE  
DAYTON, OH 45459  
937-296-3588

**TELECOM:**  
CHARTER COMMUNICATION  
ATTN: MR. EIN WHATLEY  
3691 TURNER RD  
DAYTON, OH 45415  
937-396-8591

**SEWER:**  
CITY OF SPRINGFIELD  
ATTN: BRIAN HINES  
2100 LAGONDA AVE  
SPRINGFIELD, OH 45503  
937-525-5800

**WATER:**  
CITY OF SPRINGFIELD  
ATTN: BRIAN HINES  
2100 LAGONDA AVE  
SPRINGFIELD, OH 45503  
937-525-5800

**GAS:**  
COLUMBIA GAS OF OHIO  
ATTN: ALISON GARBASH  
2101 WEST MAIN STREET  
SPRINGFIELD, OH 45504  
937-327-7114

**GAS:**  
TC ENERGY PIPELINE  
ATTN: TRACY BARNHART  
2071 N BECHTLE AVE., SUITE 205  
SPRINGFIELD, OH 45504  
937-471-0365

**GAS:**  
MARATHON PIPELINE  
ATTN: MR. AUSTIN GUYER  
10722 E COUNTY RD 300 N  
INDIANAPOLIS, IN 46234  
OFFICE: 317-871-7814  
CELL: 317-473-7441  
AGUYER@MARATHONPETROLEUM.COM

**ELECTRIC:**  
OHIO EDISON  
ATTN: NAT BENOY  
420 YORK STREET  
SPRINGFIELD, OH 45505  
937-327-1272

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY

SECTION 153.64 O.R.C.

**SURVEYING PARAMETERS**  
PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 2 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

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

**PROJECT CONTROL**

**POSITIONING METHOD:** LOCAL RTK OFF OF OPUS  
**MONUMENT TYPE:** POSITION AT POINT 101  
IRON PIN SET W/  
ALUMINUM/PLASTIC CAP, MAG  
NAILS, MAG HUBS

**VERTICAL POSITIONING**

**ORTHOMETRIC HEIGHT DATUM:** NAVD88  
**GEOID:** GEOID 18

**HORIZONTAL POSITIONING**

**REFERENCE FRAME:** NAD83 (2011) EPOCH: 2010.00

**ELLIPSOID:** GRS 80  
**MAP PROJECTION:** LAMBERT CONIC CONFORMAL

**COORDINATE SYSTEM:** OHIO SOUTH 3402

**COMBINED SCALE FACTOR:** 0.999928155 (GROUND TO GRID)  
**ORIGIN OF COORDINATE SYSTEM:** GRID COORDINATES SCALED ABOUT 0,0

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

UNITS ARE IN U.S. SURVEY FEET.

**AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS**  
THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 75.02 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. NOTIFY THE ODOT OFFICE OF AVIATION WHEN SUBMITTING FAA FORM 7460-1.

NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND THE ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

FEDERAL AVIATION ADMINISTRATION  
SOUTHWEST REGIONAL OFFICE  
OBSTRUCTION EVALUATION GROUP  
10101 HILLWOOD PARKWAY  
FORT WORTH, TX 76177  
FAX: (817) 222-5920  
http://ceaaa.faa.gov

OHIO DEPARTMENT OF TRANSPORTATION  
OFFICE OF AVIATION  
2829 WEST DUBLIN-GRANVILLE ROAD  
COLUMBUS, OHIO 43235  
Ohio.airport.protection@dot.ohio.gov

**CONTINGENCY QUANTITIES**  
THE CONTRACTOR SHALL NOT ORDER ANY MATERIALS OR PERFORM WORK LISTED IN THE GENERAL SUMMARY FOR ITEMS DESIGNED TO BE USED 'AS DIRECTED BY THE ENGINEER' UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

**PROTECTION OF DRINKING WATER RESOURCES**  
PORTIONS OF THE PROJECT ARE LOCATED WITHIN THE BOUNDARIES OF A DESIGNATED SOURCE WATER PROTECTION AREA FOR THE CLARK-SHAWNEE LOCAL SCHOOL DISTRICT. BEST CONSTRUCTION PRACTICES ARE TO BE IMPLEMENTED TO MINIMIZE WATER QUALITY IMPACTS. IDLE EQUIPMENT, PETROCHEMICALS, AND TOXIC/HAZARDOUS MATERIALS SHALL NOT BE STORED NEAR DRAINAGE WAYS, DITCHES OR STREAMS. REFUELING SHALL NOT BE UNDERTAKEN NEAR DRAINAGE WAYS, DITCHES OR STREAMS. A SPILL CONTAINMENT KIT IS TO BE MAINTAINED ON-SITE THROUGHOUT CONSTRUCTION ACTIVITIES. SPILLS OF FUELS, OILS, CHEMICALS, OR OTHER MATERIALS WHICH COULD POSE A THREAT TO GROUNDWATER SHALL BE CLEANED UP IMMEDIATELY. IF THE SPILL IS A REPORTABLE AMOUNT, THE CLARK-SHAWNEE LOCAL SCHOOL DISTRICT (BRIAN MASSER AT 937-328-5378 OR 937-215-7949), THE LOCAL FIRE DEPARTMENT (911), LOCAL EMERGENCY COORDINATOR (937-324-7615) AND THE OEPA (1-800-282-9378) MUST BE CONTACTED WITHIN 30 MINUTES OF KNOWLEDGE OF THE RELEASE.

**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.

**PAVEMENT SAWING**  
ALL COSTS FOR PERFORMING PAVEMENT SAWING SHALL BE CONSIDERED INCIDENTAL TO AND INCLUDED WITH PAYMENT FOR THE RELATED 203 EXCAVATION ITEMS.

**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.

SIZE	NO. TREES	NO. STUMPS	TOTAL
18"	3	0	3

**ITEM 204 - SUBGRADE COMPACTION, PROOF ROLLING, AND EXCAVATION OF SUBGRADE**  
CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

- SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.
- EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. THE EXCAVATION LIMITS ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSUITABLE SUBGRADE. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO SECTION 204.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS). IF THERE IS UNSUITABLE SUBGRADE IN A SHALLOW FILL LOCATION, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE BEFORE CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.
- COMPACT THE SUBGRADE ACCORDING TO C&MS 204.03.
- THE ENGINEER WILL IDENTIFY THE LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS. PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO C&MS 204.06.
- EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO C&MS 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.
- PROOF ROLL THE STABILIZED AREAS ACCORDING TO C&MS 204.06 TO VERIFY STABILITY.
- FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

THE QUANTITIES FOR EXCAVATING THE UNSUITABLE SUBGRADE AND UNSTABLE SUBGRADE ARE BOTH PAID UNDER ITEM 204, EXCAVATION OF SUBGRADE.

**ITEM 204 - PROOF ROLLING**  
THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 - PROOF ROLLING: 4 HOURS

**ITEM 203 - ROADWAY, MISC.: HYDROEXCAVATION, AS PER PLAN**  
AS DIRECTED BY THE ENGINEER, WHEN THERE ARE CONCERNS WITH EXISTING UTILITIES, THE CONTRACTOR SHALL HYDROEXCAVATE THE EXISTING UTILITY TO FACILITATE CONSTRUCTION OPERATIONS. ALL COSTS FOR EQUIPMENT MOBILIZATION (MULTIPLE MOBILIZATIONS MAY BE REQUIRED), EXCAVATION, AND RESTORATION OF THE EXCAVATION SHALL BE INCLUDED IN THE UNIT PRICE BID. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 203 - ROADWAY, MISC.:  
HYDROEXCAVATION, AS PER PLAN 5 EACH

**ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 3, AS PER PLAN**  
THIS ITEM SHALL FOLLOW ALL SPECIFICATIONS AND REQUIREMENTS IN CMS 609 AND ODOT STANDARD CONSTRUCTION DRAWING BP-5.1 EXCEPT THAT THE CURB SHALL TAPER DOWN OVER 10 FEET TO A HEIGHT OF 0" AT CURB OPENING INLETS, THE LOCATIONS OF WHICH ARE CALLED OUT IN THE PLANS.

THE CURB OPENING DETAILED ON SHEET 5 SHALL BE PROVIDED AT THE LOCATIONS SHOWN IN THE PLANS. ANY ADDITIONAL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO CONSTRUCT THESE CURB OPENINGS, AS APPROVED AND ACCEPTED IN PLACE BY THE ENGINEER, SHALL BE INCIDENTAL TO AND INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 3, AS PER PLAN.

AT LOCATIONS SHOWN IN THE PLANS, ADDITIONAL EXPANSION JOINTS WILL BE PROVIDED TO ACCOMODATE THE MAINTENANCE OF A CROSSING GAS LINE. THE EXPANSION JOINTS WILL CONFORM TO STANDARD CONSTRUCTION DRAWING BP-5.1, EXCEPT THAT THEY WILL BE 1/2" PEJF THROUGH THE FULL CURB AND GUTTER THICKNESS. ANY ADDITIONAL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO CONSTRUCT THESE EXPANSION JOINTS, AS APPROVED AND ACCEPTED IN PLACE BY THE ENGINEER, SHALL BE INCIDENTAL TO AND INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 3, AS PER PLAN.

**ITEM 609 - CURB, TYPE 3-B, AS PER PLAN**  
THIS ITEM SHALL FOLLOW ALL SPECIFICATIONS AND REQUIREMENTS IN CMS 609 AND ODOT STANDARD CONSTRUCTION DRAWING BP-5.1 EXCEPT FOR THE CHANGES DETAILED ON SHEET 5.

**ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 9, AS PER PLAN**  
THIS ITEM SHALL FOLLOW ALL SPECIFICATIONS AND REQUIREMENTS IN CMS 609 AND ODOT STANDARD CONSTRUCTION DRAWING BP-5.1 EXCEPT THAT THE GUTTER PAN SHALL BE 24".

**ITEM 451 - 7" REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN**  
CONCRETE FOR THIS ITEM SHALL INCORPORATE A WATERPROOFING ADMIXTURE AT RATES AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ADMIXTURE SHALL BE IPA SYSTEMS IPANEX, MASTER BUILDERS MASTERLIFE 300D, SIKA WT-215P, OR APPROVED EQUAL.

**SUBGRADE STABILIZATION**  
SUBGRADE STABILIZATION IS REQUIRED ON THIS PROJECT, THE BASE BID FOR WHICH WILL INCLUDE EXCAVATION, GRANULAR MATERIAL BACKFILL, AND GEOTEXTILE FABRIC. THESE ITEMS ARE LISTED BELOW AS 'BASE BID (SUBGRADE STABILIZATION)', AND HAVE BEEN CARRIED TO THE GENERAL SUMMARY. THE ROADWAY BASE BID QUANTITIES ARE BASED ON REPLACEMENT OF 70% OF SOILS PER THE GEOTECHNICAL REPORT (3/25/2021), WHICH IS AVAILABLE UPON REQUEST. ITEMS FOR CHEMICAL STABILIZATION ARE ALSO PROVIDED BELOW AS ALTERNATE BID ITEMS FOR SUBGRADE STABILIZATION. THESE ARE LISTED BELOW AS 'BID ALTERNATE (SUBGRADE STABILIZATION)', AND HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

IF PERFORMING SUBGRADE STABILIZATION NEAR ANY OF THE GAS OR PETROLEUM PIPELINES LOCATED WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS LISTED ON PAGE 15.

**BASE BID (SUBGRADE STABILIZATION)**

ITEM 204 - EXCAVATION OF SUBGRADE	1747	CY
ITEM 204 - GRANULAR MATERIAL, TYPE B, 12"	1747	CY
ITEM 204 - GEOTEXTILE FABRIC	5236	SY

**BID ALTERNATE (SUBGRADE STABILIZATION)**

ITEM 206 - CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	6792	SY
ITEM 206 - CEMENT	207	TON
ITEM 206 - CURING COAT	6792	SY

**ROUNDBABOUT LANDSCAPING**  
THE BASE BID FOR THE LANDSCAPING TREATMENT IN THE CENTER OF THE ROUNDBABOUT WILL BE ITEM 659 - SEEDING AND MULCHING, AND THE CORRESPONDING ITEMS LISTED BELOW AS 'BASE BID (LANDSCAPING)'. THESE HAVE BEEN CARRIED TO THE GENERAL SUMMARY. ITEM 690 - SPECIAL - ROCK MULCH IS THE ALTERNATE BID ITEM FOR THE ROUNDBABOUT LANDSCAPING, AND IS LISTED BELOW AS 'BID ALTERNATE (LANDSCAPING)'. IT HAS BEEN CARRIED TO THE GENERAL SUMMARY.

**BASE BID (LANDSCAPING)**

ITEM 659 - SEEDING AND MULCHING, A.P.P.	376	SY
ITEM 659 - TOPSOIL FURNISHED AND PLACED, A.P.P.	42	CY
ITEM 659 - COMMERCIAL FERTILIZER	0.05	TON
ITEM 659 - LIME	0.08	ACRES
ITEM 659 - REPAIR SEEDING AND MULCHING	19	SY
ITEM 659 - INTER-SEEDING	19	SY
ITEM 659 - WATER	2	M. GAL.
ITEM 659 - MOWING	1	M. SF

**BID ALTERNATE (LANDSCAPING)**  
ITEM 690 - SPECIAL - ROCK MULCH 42 CY

**ITEM 690 - SPECIAL - ROCK MULCH (LANDSCAPING ALTERNATE)**  
ROCK MULCH TO BE NO. 4 SIZE LIMESTONE OR APPROVED EQUAL, PLACED 4 INCHES THICK ON WEED FABRIC. SUBMIT STONE SAMPLE TO ENGINEER FOR APPROVAL.

**ITEM 204 - GEOGRID**  
THE FOLLOWING QUANTITY IS INCLUDED TO BE USED IN PLACE OF ITEM 204 - GEOTEXTILE FABRIC, AS DIRECTED BY THE ENGINEER:  
ITEM 204 - GEOGRID 1000 SY

**ITEM 203 - ROADWAY, MISC.: BOULDERS REMOVED AND RELOCATED**  
PAYMENT FOR THIS ITEM SHALL BE MADE AT THE CONTRACT UNIT PRICE BID FOR EACH ROADWAY, MISC.: BOULDERS REMOVED AND RELOCATED, AND SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM. THE CONTRACTOR SHALL COORDINATE WITH THE COUNTY ENGINEER TO DETERMINE THE FINAL PLACEMENT OF THE BOULDERS, WHICH WILL BE WITHIN THE LIMITS OF THE ADJACENT PROPERTY.

DESIGN AGENCY



DESIGNER  
NJL

REVIEWER

JED 10-1-21

PROJECT ID  
109451

SHEET TOTAL  
13 | 102

ITEM 659 - SEEDING AND MULCHING, AS PER PLAN  
 IN ADDITION TO THE REQUIREMENTS OF 659, THE CONTRACTOR SHALL NOT PERFORM ANY FINAL SEEDING AND MULCHING IF SUBSTANTIAL RAIN IS FORECASTED WITHIN 48 HOURS UNLESS OTHERWISE APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL NOT PERFORM SEEDING AND MULCHING WITHOUT WRITTEN APPROVAL IDENTIFYING THE AREAS APPROVED FOR SEEDING BY STATION RANGE OR BY PROPERTY ADDRESS.

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

ITEM 659 - SOIL ANALYSIS TEST	2	EACH
ITEM 659 - COMMERCIAL FERTILIZER	0.69	TON
ITEM 659 - LIME	1.06	ACRES
ITEM 659 - REPAIR SEEDING AND MULCHING	256	SY
ITEM 659 - INTER-SEEDING	256	SY
ITEM 659 - WATER	28	M. GAL.
ITEM 659 - MOWING	12	M. SF

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

SEE SHEET 68 FOR EARTHWORK SUBSUMMARY.

ITEM SPECIAL - MAILBOX REMOVED AND RESET  
 THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING 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 SYSTEM, (SINGLE) (DOUBLE).

ITEM 611 - MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN

THIS ITEM SHALL MEET ALL REQUIREMENTS OF ODOT SCD MH-3. PRECAST CONCRETE IS REQUIRED. THE CONTRACTOR SHALL REMOVE EXISTING RISER SECTIONS OF THE MANHOLE FAR ENOUGH DOWN SO IT CAN BE ADJUSTED TO THE PLAN ELEVATION.

PAYMENT FOR THIS ITEM SHALL BE MADE AT THE CONTRACT UNIT PRICE BID FOR EACH MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN AND SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM.

ITEM 611 - CONDUITS

ALL CONDUIT SHOWN ON THE PLANS 12" OR LARGER SHALL CONFORM TO THE TYPES LISTED BELOW UNLESS OTHERWISE APPROVED BY THE ENGINEER:

- TYPE B - 706.02
- TYPE C - 707.33
- TYPE D - 707.33

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, THE CONTRACTOR SHALL 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, THE ENGINEER SHALL BE NOTIFIED 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, THE ENGINEER SHALL BE NOTIFIED 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 SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

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.

FARM DRAINS

PROVIDE UNOBSTRUCTED OUTLETS TO ALL FARM DRAINS ENCOUNTERED DURING CONSTRUCTION. REPLACE EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY WITHIN THE (RIGHT OF WAY)( CONSTRUCTION) LIMITS WITH ITEM 611, CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

OUTLET EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES INTO THE ROADWAY.

DITCH USING ITEM 611, TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION IS ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. INTERCEPT LATERAL FIELD TILES WHICH CROSS THE ROADWAY WITH ITEM 611, TYPE E CONDUIT, AND CARRY IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS IS DETERMINED BY THE ENGINEER AND PAYMENT MADE ON FINAL MEASUREMENTS.

PROVIDE EROSION CONTROL PADS AT THE OUTLET END OF ALL FARM DRAINS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE.

PAYMENT FOR THE EROSION CONTROL PADS AND ANY NECESSARY BENDS OR BRANCHES IS INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

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

ITEM 611, 4" CONDUIT, TYPE F 50 FT.

DRAINAGE DISCHARGE CONTINUANCE

FURNISH A DRAINAGE DISCHARGE CONTINUANCE FOR ANY DRAINAGE DISCHARGE DISTURBED BY THE WORK AND NOT SHOWN IN THE PLANS. THE LOCATION, TYPE (CONDUIT OR SWALE), SIZE AND GRADE OF THE DRAINAGE DISCHARGE CONTINUANCE WILL BE AGREED TO BY THE ENGINEER

FURNISH AN INSPECTION WELL AT THE RIGHT OF WAY LINE IN ACCORDANCE WITH SCD DM-3.1 FOR EACH DRAINAGE DISCHARGE THAT OUTLETS THROUGH A CURB OPENING, OR INTO A STORM SEWER OR DRAINAGE STRUCTURE. THE COST IS INCLUDED IN ITEM 611, INSPECTION WELL.

FURNISH A WELL GRADED TRANSITION BETWEEN THE DITCH AND THE SWALE WHEN OUTLETTING A SWALE TO A DITCH. THE COST FOR THE GRADED TRANSITION IS INCLUDED IN ITEM 203, EMBANKMENT AS PER PLAN.

FURNISH AN EROSION CONTROL PAD AS SHOWN IN SCD DM-1.1 WHEN OUTLETTING A CONDUIT TO A DITCH. THE COST FOR THE EROSION CONTROL PAD IS INCLUDED IN ITEM 611, CONDUIT, MISC.: TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE.

FURNISH A DRILLED HOLE OR A CURB SECTION WITH A HOLE WHEN OUTLETTING A CONDUIT THROUGH A CURB OPENING. THE COST OF DRILLING, OR FURNISHING THE CURB SECTION WITH HOLE IS INCLUDED IN ITEM 611, CONDUIT, MISC.: TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE.

FURNISH A DRILLED CORE HOLE WHEN OUTLETTING INTO A STORM SEWER OR DRAINAGE STRUCTURE. THE COST OF THE DRILLED CORE HOLE IS INCLUDED IN ITEM 611, CONDUIT, MISC.: TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE.

DRAINAGE DISCHARGE CONTINUANCE (CONTINUED)

DOCUMENTATION  
 THE CONTRACTOR SHALL FURNISH WRITTEN DOCUMENTATION TO THE ENGINEER.  
 THE DOCUMENTATION INCLUDES THE CONSTRUCTION PROJECT NUMBER, PID, COUNTY, ROUTE, SECTION, LATITUDE AND LONGITUDE OF THE DRAINAGE DISCHARGE AT THE R/W, THE NAME OF PROPERTY OWNER WITH ADDRESS, THE DATE THE DRAINAGE DISCHARGE WAS LOCATED, THE DATE THE DRAINAGE DISCHARGE CONTINUANCE WAS FURNISHED, A DETAILED DESCRIPTION OF THE WORK AND PICTURES OF THE DRAINAGE DISCHARGE CONTINUANCE (IN PDF OR JPEG FORMAT). THE DOCUMENTATION IS INCLUDED IN ITEM 611, CONDUIT, MISC.: TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE OR ITEM 203, EMBANKMENT AS PER PLAN.

DRAINAGE DISCHARGE CONTINUANCE REMOVAL  
 THE ENGINEER MAY REQUIRE THE NEWLY INSTALLED DRAINAGE DISCHARGE CONTINUANCE TO BE REMOVED.

REMOVE THE NEWLY INSTALLED CONDUIT AND ANY EXISTING CONDUIT TO THE RIGHT OF CURB RESTORE THE CURB BY FILLING THE HOLE WITH CLASS QC 1 CONCRETE OR REPLACE THE CURB SECTION. FOR CONDUIT THAT OUTLETS TO A STORM SEWER OR DRAINAGE STRUCTURE LEAVE 6 INCHES PROTRUDING OUTSIDE OF THE CONDUIT. PLUG THE PROTRUDING CONDUIT WITH EITHER A MANUFACTURED CAP OR CLASS QC 1 CONCRETE. FOR CONDUIT THAT OUTLETS TO THE DITCH REMOVE THE EROSION CONTROL PAD. RESTORE ALL AREAS AS REQUIRED. PLUG THE EXISTING CONDUIT REGARDLESS OF SIZE AT THE RIGHT OF WAY LINE WITH CLASS QC 1 CONCRETE AND RESTORE ALL AREAS AS REQUIRED. ALL COSTS ARE INCLUDED IN ITEM 202, REMOVAL MISC. CONDUIT.

DAM THE SWALE THAT OUTLETS TO THE DITCH AT THE R/W AS DIRECTED BY THE ENGINEER. ALL COSTS ARE INCLUDED IN ITEM 203, EMBANKMENT AS PER PLAN.

REMOVE THE INSPECTION WELL AND RESTORE ALL AREAS AS REQUIRED. THE COST IS INCLUDED IN ITEM 202, REMOVAL MISC. INSPECTION WELL.

CONDUIT MATERIAL TYPES  
 THE FOLLOWING CONDUIT MATERIAL TYPES ARE PERMITTED:  
 707.33, 707.41 NON-PERFORATED, 707.42, 707.43, 707.45, 707.46, 707.47, 707.51, AND 707.52 SDR35.

PAY ITEMS  
 EACH OF THE PAY ITEMS LISTED BELOW FOR CONDUIT MISCELLANEOUS TYPES B, C, E AND F FOR DRAINAGE DISCHARGE CONTINUANCE INCLUDE CONDUIT SIZES 2 INCH TO 10 INCH. THERE IS NO COST DIFFERENTIATION FOR SIZE IN THESE PAY ITEMS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER IN MAKING THE ABOVE DRAINAGE DISCHARGE CONTINUANCE:

ITEM 611, INSPECTION WELL 1 EACH  
 ITEM 611, CONDUIT, MISC.: TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE 50 FT.

DESIGN AGENCY



DESIGNER

NJL

REVIEWER

JED 10-1-21

PROJECT ID

109451

SHEET TOTAL

14 102

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.

EXISTING SUBSURFACE DRAINAGE

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS OR AGGREGATE DRAINS ENCOUNTERED DURING CONSTRUCTION.

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE. UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

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

ITEM 601, TIED CONCRETE BLOCK MAT, TYPE 1	2 SQ. YD.
ITEM 611, 4" CONDUIT, TYPE F	50 FT.
ITEM 611, PRECAST REINFORCED CONCRETE OUTLET	1 EACH

ITEM 651 - TOPSOIL STOCKPILED

ALL TOPSOIL WITHIN THE CONSTRUCTION LIMITS OF THE PROJECT IS TO BE STOCKPILED PER CMS ITEM 651 – TOPSOIL STOCKPILED. THE LOCATION OF THE STOCKPILING WILL BE DETERMINED BY THE PROJECT ENGINEER.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE.

ITEM 651 - TOPSOIL STOCKPILED 931 CU. YD.

ITEM 652 - PLACING STOCKPILED TOPSOIL

ALL TOPSOIL THAT HAS BEEN STOCKPILED WILL BE PLACED 4 INCHES DEEP TO COVER ALL GRADED AREA WITHIN THE CONSTRUCTION LIMITS. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 652 - PLACING STOCKPILED TOPSOIL 931 CU. YD.

ITEM 653 - TOPSOIL FURNISHED AND PLACED, AS PER PLAN

IN THE EVENT THERE IS AN INSUFFICIENT AMOUNT OF STOCKPILE TOPSOIL TO COVER THE AREAS INDICATED IN THE LANDSCAPING PLANS, THE CONTRACTOR WILL PROVIDE ITEM 653 – TOPSOIL FURNISHED AND PLACED AS DIRECTED BY THE ENGINEER.

PROVIDE PULVERIZED TOPSOIL THAT IS FERTILE, LOOSE, FRIABLE AND LOAMY AT LOCATIONS SHOWN IN THE PLAN OR AS DIRECTED BY THE ENGINEER. TOPSOIL SHALL BE FURNISHED FROM COMMERCIAL SOURCES (TOPSOIL SUPPLIERS) OR SHALL BE FURNISHED FROM STOCKPILES THAT ARE APPROVED BY THE DEPARTMENT.

PLACE TOPSOIL IN ACCORDANCE WITH ITEM 659.11 AT A 4" DEPTH. PREPARE THE SITE FOR TOPSOIL IN ACCORDANCE WITH 659.10 WITH THE FOLLOWING MODIFICATION: REMOVE ALL STONES, DEBRIS, AND SOIL CLUMPS THAT ARE 0.50 INCH OR GREATER IN ANY DIMENSION FROM ALL SEED AREAS. TOPSOIL SHALL NOT HAVE ANY PARTICLES EXCEEDING 0.50 INCH OR GREATER IN ANY DIMENSION AT THE TIME OF SEEDING.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE.

ITEM 653 - TOPSOIL FURNISHED AND PLACED 373 CU. YD.

CONSTRUCTION OVER TC ENERGY TRANSMISSION LINE

ANY WORK THE CONTRACTOR PERFORMS OVER OR IN THE VICINITY OF THE TRANSMISSION LINE WILL FOLLOW THE PROCEDURES AND FORMS PROVIDED BY THE TC ENERGY UTILITY CONTACT PROVIDED IN THE GENERAL NOTES OF THIS PLAN SET, INCLUDING, BUT NOT LIMITED TO, TC ENERGY'S GENERAL GUIDELINES, ENGINEERING GUIDELINE LETTER, AND THE HEAVY EQUIPMENT CROSSING INFORMATION FORM. NO GROUND DISTURBANCE SHALL BE MADE WITHIN TC ENERGY'S RIGHT-OF-WAY OR WITHIN 25 FT., MEASURED AT RIGHT ANGLES, OF THE PIPELINE EXCEPT IN THE PRESENCE OF A TC ENERGY REPRESENTATIVE.

NOTICE OF AT LEAST SEVENTY-TWO (72) HOURS IN ADVANCE OF CONSTRUCTION MUST BE PROVIDED. THE CONTRACTOR MUST CONTACT THE TC ENERGY FIELD REPRESENTATIVE. PLEASE NOTE THAT VOICE MESSAGES DO NOT CONSTITUTE 72-HOUR NOTICE. PERSON TO PERSON CONTACT MUST BE MADE. TC ENERGY WILL ARRANGE FOR A REPRESENTATIVE TO BE ON SITE WHEN WORK IS OCCURRING ON OR NEAR THE RIGHT-OF-WAY AREA, OR WITHIN 25 FT. OF THE PIPELINE. AFTER HOURS CALL 1-800-447-8066.

SEE THE BID PROPOSAL FOR ADDITIONAL UTILITY AND PIPELINE REQUIREMENTS.

CONSTRUCTION OVER MARATHON TRANSMISSION LINE

ANY WORK THE CONTRACTOR PERFORMS OVER OR IN THE VICINITY OF THE MARATHON PIPELINE WILL FOLLOW THE PROCEDURES AND FORMS PROVIDED BY MARATHON PIPE LINE LLC (MPL) INCLUDING, BUT NOT LIMITED TO, MPL'S PROPERTY DEVELOPMENT SPECIFICATIONS.

A MARATHON PIPE LINE LLC (MPL) REPRESENTATIVE MUST BE PRESENT WHEN WORK IS PERFORMED WITHIN 50 FEET OF A PIPELINE OPERATED BY MPL. PLEASE CONTACT MPL OPERATIONS SUPERVISOR, NICOLE TORR (740-258-6899, NCTORR@MARATHONPETROLEUM.COM) WITH A MINIMUM 48 HRS ADVANCED NOTICE TO SCHEDULE TO HAVE A MPL REPRESENTATIVE ON SITE.

NO VIBRATORY COMPACTION EQUIPMENT SHALL BE USED WITHIN 10' OF THE PIPELINE. THERE SHALL BE NO STABILIZATION DIRECTLY OVER THE PIPELINE - REMOVE THE MATERIAL, STABILIZE IT, THEN PLACE AND COMPACT OVER THE PIPELINE WITHOUT VIBRATORY EQUIPMENT. NO LOW STRENGTH MORTAR BACKFILL (FLOWABLE FILL) SHALL BE USED AROUND THE PIPELINE.

SEE THE BID PROPOSAL FOR ADDITIONAL UTILITY AND PIPELINE REQUIREMENTS.

DESIGN AGENCY



DESIGNER

NJL

REVIEWER

JED 10-1-21

PROJECT ID

109451

SHEET TOTAL

15 | 102

**ITEM 614. MAINTAINING TRAFFIC**

ALL LANES OF TRAFFIC SHALL BE MAINTAINED DURING THE SCHOOL YEAR. WHEN NEEDED, THE CONTRACTOR CAN CLOSE ONE LANE TO PERFORM THE WORK WHILE MAINTAINING ONE LANE, TWO WAY TRAFFIC VIA FLAGGER OPERATION PER MT-97.10. NO LANE CLOSURES OR RESTRICTIONS SHALL BE PERMITTED DURING THE FOLLOWING SCHOOL ARRIVAL AND DEPARTURE TIMES:  
 7:00 A.M. TO 7:30 A.M.  
 8:15 A.M. TO 9:00 A.M.  
 2:15 P.M. TO 2:45 P.M.  
 3:15 P.M. TO 4:00 P.M.

DURING SCHOOL SUMMER VACATION (MAY 26, 2022 - AUGUST 31, 2022), THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 18.

DRIVEWAYS WITHIN THE CLOSURE LIMITS SHALL BE MAINTAINED AT ALL TIMES. ACCESS TO DRIVEWAYS NEAR, BUT NOT IN, THE WORK AREA SHALL BE MAINTAINED PER THE EXISTING PAVEMENT. THE CONTRACTOR SHALL MAINTAIN ACCESS TO DRIVEWAYS WITHIN THE WORK AREA ON EXISTING, PROPOSED PAVEMENT, OR TEMPORARY SURFACE (ITEM 410 TRAFFIC COMPACT SURFACE).

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

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.

**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. AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.

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.

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

**ITEM 614. MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)**

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 (937-521-1800) WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION.

**ITEM 614. MAINTAINING TRAFFIC (ESTIMATED QUANTITIES)**

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

ITEM 410, TRAFFIC COMPACTED SURFACE, TYPE A OR B 64 CU. YD.

**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 10 M. GAL.

**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. 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.

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

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

**ITEM 614. LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS**

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

FOR OPERATIONS WITHOUT POSITIVE PROTECTION OCCURRING WITHIN 10 FEET OF AN OPEN TRAVELED LANE THAT MEET ALL OF THE FOLLOWING CRITERIA:

- ON A MULTI-LANE DIVIDED INTERSTATE, OTHER FREEWAY OR EXPRESSWAY; AND
- AN AUTHORIZED SPEED LIMIT OF 45 MPH OR GREATER THAT IS IN EFFECT AT THE TIME OF THE OPERATION; AND,
- AADT OF 50,000 (OR AADT OF 30,000 WITH 25% OR HIGHER PERCENT TRUCKS)

"WITHOUT POSITIVE PROTECTION" MEANS USE OF DRUMS, CONES, SHADOW VEHICLE, ETC, WITHOUT PROTECTION FROM PORTABLE BARRIER OR OTHER RIGID BARRIER ALONG THE WORK AREA. THIS PHRASE DOES NOT APPLY TO CASES WHERE POSITIVE PROTECTION IS REQUIRED. MOBILE OPERATIONS ARE REGARDED AS "WITHOUT POSITIVE PROTECTION". FOR WORK ZONES USING A COMBINATION OF BARRIER AND TEMPORARY TRAFFIC CONTROL DEVICES (CONES, DRUMS, ETC), THE DESIGNATION SHALL BE BASED UPON THE TYPE OF DEVICES USED IN THE AREA THAT WORKERS ARE LOCATED.

IF MULTIPLE ACTIVE LOCALIZED QUALIFYING WORK AREAS OCCUR WITHOUT POSITIVE PROTECTION, PER MAINLINE TRAFFIC DIRECTION, PROVIDE A UNIFORMED LEO AND OFFICIAL PATROL CAR IN ADVANCE OF:

- THE FIRST ACTIVE WORK AREA THAT DRIVERS WILL ENCOUNTER; OR
- THE ACTIVE WORK AREA Laterally CLOSEST TO THE OPEN TRAVELED LANE; OR
- OTHER LOCATION AS APPROVED BY THE ENGINEER.

THE UNIFORMED LEO AND OFFICIAL PATROL CAR MAY RELOCATE AMONG THE LISTED LOCATIONS AS APPROPRIATE AS THE OPERATIONS PROCEED IN THE LOCALIZED QUALIFYING WORK AREAS.

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION (OR AT THE POINT OF ROAD CLOSURE), AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

**ITEM 614. LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS**

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE THAT SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 40 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

**PN 121 CLARIFICATIONS**

DESCRIPTION OR LOCATION OF CRITICAL WORK	COMPLETION DATE	TIME PERIOD	DISINCENTIVE \$ PER TIME PERIOD	INCENTIVE \$ PER TIME PERIOD	MAXIMUM INCENTIVE \$
ALL LANES OF SELMA PIKE AND E. POSSUM ROAD (SEE BELOW)	8/31/2022	DAY	\$2,000	N/A	N/A

BEFORE OPENING THE ROUNDABOUT TO TRAFFIC, COMPLETE THE ROUNDABOUT INCLUDING ALL LANES, FINAL SIGNING, PAVEMENT MARKINGS, AND LIGHTING. PAVEMENT MARKINGS SHALL BE FULL MARKINGS, AS SHOWN ON THE SIGNING AND PAVEMENT MARKING PLANS ON THE SURFACE COURSE. THE LIGHTING SHALL BE FULLY OPERATIONAL. THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE ACCORDING TO THE PN 121 CLARIFICATIONS TABLE FOR EACH TIME PERIOD THE ROAD REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

SHEET NUM.	PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
16	1						
<b>MAINTENANCE OF TRAFFIC</b>							
64	64	410	12000	64	CY	TRAFFIC COMPACTED SURFACE, TYPE A OR B	
40	40	614	11110	40	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
10	10	616	10000	10	MGAL	WATER	
<b>INCIDENTALS</b>							
LS	LS	614	11000	LS		MAINTAINING TRAFFIC	

MAINTENANCE OF TRAFFIC SUBSUMMARY

DESIGN AGENCY

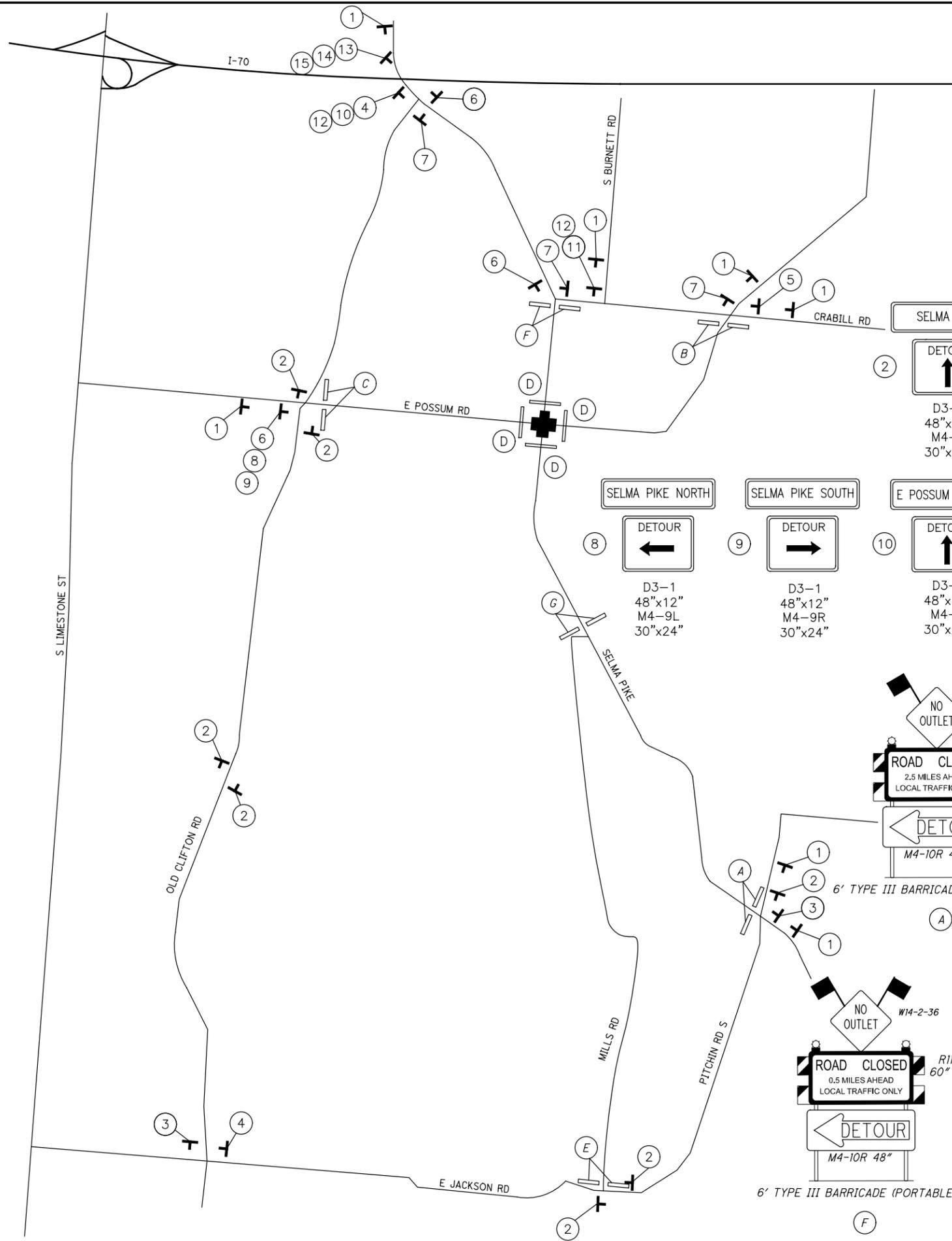


DESIGNER  
STB

REVIEWER  
EMW 10-01-21

PROJECT ID  
109451

SHEET TOTAL  
17 | 102

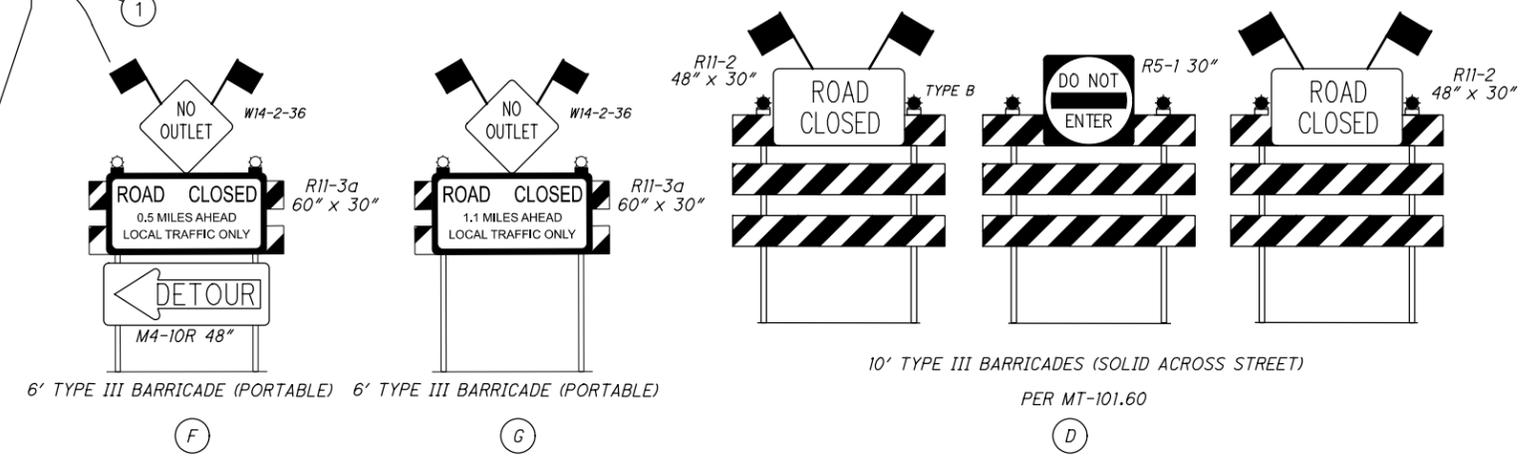
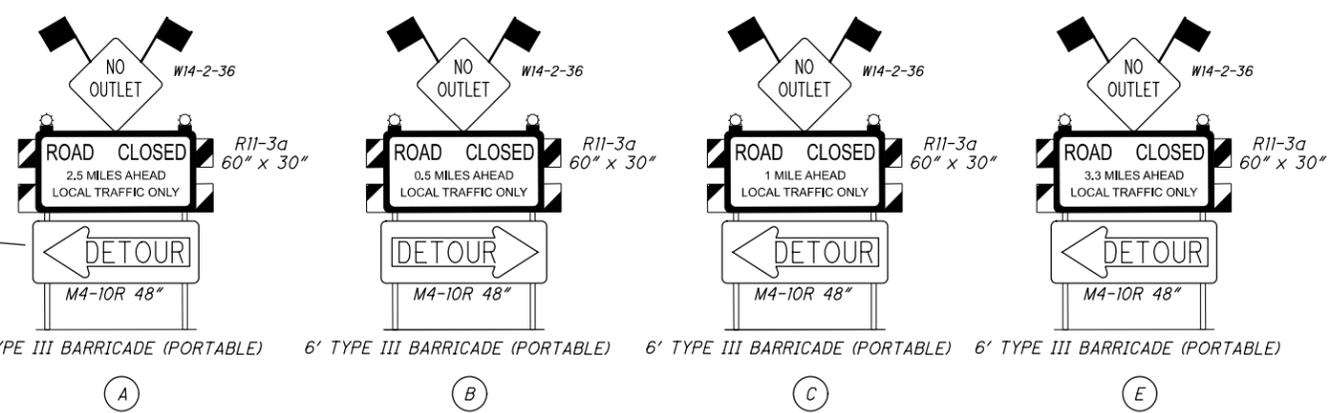
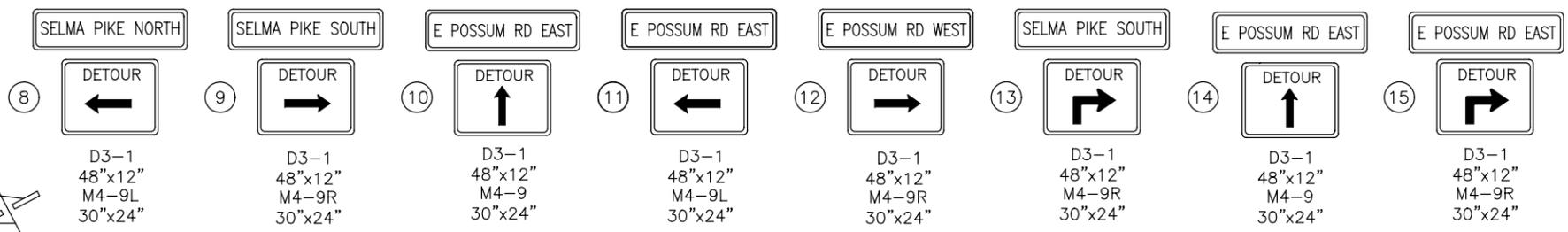
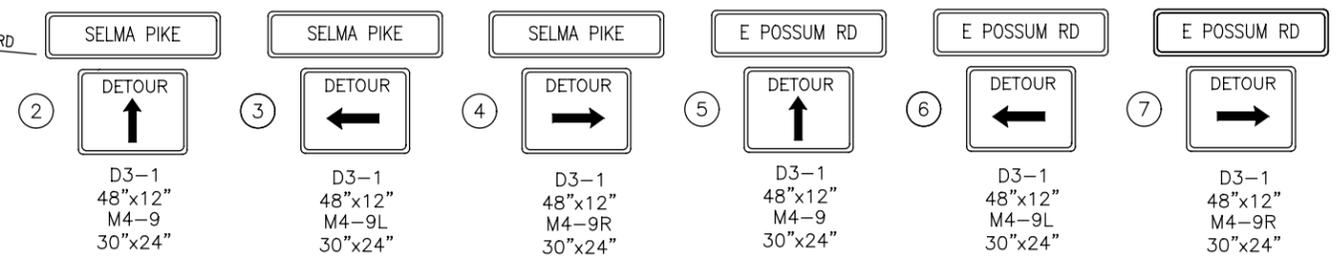
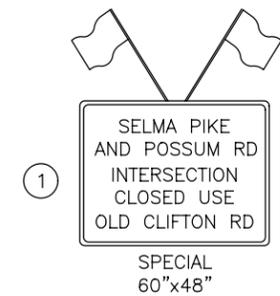


LEGEND

- WORK AREA
- TEMPORARY SIGN
- TYPE III BARRICADE

NOTES:

1. INSTALL SIGNS PER MT-101.60 IN ADVANCE OF CLOSURE.



MAINTENANCE OF TRAFFIC DETOUR PLAN  
SELMA PIKE & E POSSUM RD CLOSURE

DESIGN AGENCY	<b>B&amp;N</b> burgessniple.com
DESIGNER	JZM
REVIEWER	EMW 10-01-21
PROJECT ID	109451
SHEET	TOTAL
18	102

CLA-CR351-7.92

SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
13	14	15	21	22	23	25	26	68	76	77	93								
<b>ROADWAY</b>																			
LS														201	11000	LS	CLEARING AND GRUBBING		
3														201	21800	3	EACH	TREE REMOVED, 18"	
			3,586	548										202	23000	4,134	SY	PAVEMENT REMOVED	
			60											202	35100	60	FT	PIPE REMOVED, 24" AND UNDER	
			1											202	58100	1	EACH	CATCH BASIN REMOVED	
								1,475						203	10000	1,475	CY	EXCAVATION	
								3,908						203	20000	3,908	CY	EMBANKMENT	
			3											203	98600	3	EACH	ROADWAY, MISC.: BOULDERS REMOVED AND RELOCATED	13
5														203	98600	5	EACH	ROADWAY, MISC.: HYDROEXCAVATION, AS PER PLAN	13
			36		28				79	41				204	10000	184	SY	SUBGRADE COMPACTION	
1,747														204	13000	1,747	CY	EXCAVATION OF SUBGRADE	
1,747														204	30010	1,747	CY	GRANULAR MATERIAL, TYPE B, 12"	
4														204	45000	4	HOUR	PROOF ROLLING	
5,236														204	50000	5,236	SY	GEOTEXTILE FABRIC	
1,000														204	51000	1,000	SY	GEOGRID	13
			323											608	10000	323	SF	4" CONCRETE WALK	
			114											608	52000	114	SF	CURB RAMP	
			20											608	53020	20	SF	DETECTABLE WARNING	
											5			623	38500	5	EACH	MONUMENT ASSEMBLY	
											14			623	40520	14	EACH	RIGHT-OF-WAY MONUMENT	
			931											651	10000	931	CY	TOPSOIL STOCKPILED	
			931											652	10000	931	CY	PLACING STOCKPILED TOPSOIL	
42			373											653	10001	415	CY	TOPSOIL FURNISHED AND PLACED, AS PER PLAN	15
	2													SPECIAL	69050350	2	EACH	MAILBOX REMOVED AND RESET	
<b>EROSION CONTROL</b>																			
		2												601	21050	2	SY	TIED CONCRETE BLOCK MAT, TYPE 1	
	2													659	00100	2	EACH	SOIL ANALYSIS TEST	
376								5,118						659	10001	5,494	SY	SEEDING AND MULCHING, AS PER PLAN	14
19	256													659	14000	275	SY	REPAIR SEEDING AND MULCHING	
19	256													659	15000	275	SY	INTER-SEEDING	
0.05	0.69													659	20000	0.74	TON	COMMERCIAL FERTILIZER	
0.08	1.06													659	31000	1.14	ACRE	LIME	
2	28													659	35000	30	MGAL	WATER	
1	12													659	40000	13	MSF	MOWING	
							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	
							26,121							832	30000	26,121	EACH	EROSION CONTROL	
<b>DRAINAGE</b>																			
						82								601	21060	82	SY	TIED CONCRETE BLOCK MAT, TYPE 2	
						0.6								602	20000	0.6	CY	CONCRETE MASONRY	
						1,215								605	06000	1,215	FT	4" BASE PIPE UNDERDRAINS	
	50	50												611	00406	100	FT	4" CONDUIT, TYPE F	
														611	00410	139	FT	4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET	
														611	02000	12	FT	8" CONDUIT, TYPE C	
														611	04200	67	FT	12" CONDUIT, TYPE A	
														611	04400	60	FT	12" CONDUIT, TYPE B	14
														611	04600	63	FT	12" CONDUIT, TYPE C	14
														611	04900	78	FT	12" CONDUIT, TYPE D	14
	50													611	97400	50	FT	CONDUIT, MISC.: TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE	14
						3								611	98180	3	EACH	CATCH BASIN, NO. 3A	
						2								611	98470	2	EACH	CATCH BASIN, NO. 2-2B	
						1								611	99661	1	EACH	MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN	14
		1				1								611	99710	2	EACH	PRECAST REINFORCED CONCRETE OUTLET	
	1													611	99720	1	EACH	INSPECTION WELL	
<b>PAVEMENT</b>																			
						975								302	46000	975	CY	ASPHALT CONCRETE BASE, PG64-22, 5"	

GENERAL SUMMARY

DESIGN AGENCY  
  
 burgessniple.com

DESIGNER  
 NJL

REVIEWER  
 JED 10-1-21

PROJECT ID  
 109451

SHEET TOTAL  
 19 | 102





REF NO.	SHEET NO.	STATION TO STATION				202	202	202	203	204	608	608	608	609	609	609	609	609	SPECIAL					
						PAVEMENT REMOVED	PIPE REMOVED, 24" AND UNDER	CATCH BASIN REMOVED	ROADWAY, MISC.: BOULDERS REMOVED AND RELOCATED	SUBGRADE COMPACTION	4" CONCRETE WALK	CURB RAMP	DETECTABLE WARNING	COMBINATION CURB AND GUTTER, TYPE 3, AS PER PLAN	CURB, TYPE 3-B, AS PER PLAN	CURB, TYPE 6	COMBINATION CURB AND GUTTER, TYPE 9	COMBINATION CURB AND GUTTER, TYPE 9, AS PER PLAN	CURB, TYPE 3-A	MAILBOX REMOVED AND RESET				
					SY	FT	EACH	EACH	SY	SF	SF	SF	FT	FT	FT	FT	FT	FT	EACH					
R1	27	210+18.47	10.00' LT	TO	212+00.00	0.0' LT/RT																		
R2	27	211+15.48	29.42' LT	TO	211+35.47	28.91' LT																		
R3	27	211+35.47	28.91' LT	TO	211+76.04	28.56' LT																		
W1	27	210+43.61	23.50' LT	TO	210+48.61	42.59' LT			11	95														
W2	27	210+15.37	48.39' RT	TO	210+48.61	28.57' RT			25	228														
CR1	27	210+46.11	13.50' LT								57	10												
CR2	27	210+46.11	13.54' RT								57	10												
C1	27	210+18.82	15.47' LT	TO	212+00.00	15.24' LT							181											
C2	27	210+39.97	13.00' RT	TO	212+00.00	20.69' RT							160											
R1	28	212+00.00	0.0' LT/RT	TO	217+00.00	0.0' LT/RT	2177																	
R2	28	314+57.94	11.12' LT																					
R3	28	214+50.93	149.66' RT	TO	214+38.47	139.91' RT	57																	
R4	28	214+71.49	47.73' RT	TO	214+98.57	48.44' RT		3																
C1	28	212+00.00	15.24' LT	TO	213+25.80	50.19' LT							131											
C2	28	212+36.82	2.05' LT	TO	213+24.04	27.29' LT								92										
C3	28	212+36.82	2.05' LT	TO	213+26.83	0.65' LT								92										
C4	28	213+24.04	27.29' LT	TO	213+26.83	0.65' LT								31										
C5	28	213+25.07	51.47' LT	TO	213+71.51	95.36' LT									64									
C6	28	213+25.85	50.19' LT	TO	213+72.76	94.53' LT											66							
C7	28	213+72.76	94.53' LT	TO	213+83.02	167.42' LT							74											
C8	28	213+89.28	82.37' LT	TO	214+00.14	167.67' LT								86										
C9	28	213+89.28	82.37' LT	TO	214+16.40	82.18' LT								31										
C10	28	214+11.93	167.84' LT	TO	214+16.40	82.18' LT								86										
C11	28	214+27.59	168.07' LT	TO	214+35.82	87.92' LT							81											
C12	28	214+37.24	88.39' LT	TO	215+01.28	22.40' LT									94									
C13	28	214+35.82	87.92' LT	TO	215+00.85	20.96' LT											99							
C14	28	215+00.85	20.96' LT	TO	217+00.00	14.59' LT							199											
C15	28	214+64.44	13.79' LT	TO	215+43.90	0.62' RT								82										
C16	28	214+62.98	11.58' RT	TO	214+64.44	13.79' LT								30										
C17	28	214+62.98	11.58' RT	TO	215+43.90	0.62' RT								83										
C18	28	214+31.70	181.90' RT	TO	217+00.00	14.35' RT							406											
C19	28	214+01.30	118.95' RT	TO	214+07.69	55.13' RT								65										
C20	28	213+79.14	57.50' RT	TO	214+07.69	55.13' RT								34										
C21	28	214+01.30	118.95' RT	TO	213+79.14	57.50' RT								66										
C22	28	212+00.00	20.69' RT	TO	213+99.35	182.38' RT							309											
C23	28	213+49.06	13.28' LT	TO	214+41.06	13.18' LT									289									
C24	28	213+61.73	13.27' LT	TO	214+28.39	13.20' LT											209							
R1	29	217+00.00	0.0' LT/RT	TO	217+98.65	0.0' LT/RT	241																	
C1	29	217+00.00	14.59' LT	TO	217+68.21	13.00' LT							68											
C2	29	217+00.00	14.35' RT	TO	217+68.20	13.15' RT							68											
R1	31	308+78.73	0.0' LT/RT		311+50.00	0.0' LT/RT	668																	
C1	31	308+98.73	13.00' LT		311+50.00	1.61' LT							252											
C2	31	308+98.73	13.00' RT		311+50.00	42.98' RT							254											
C3	31	311+37.42	18.65' RT		311+50.00	14.06' RT								15										
C4	31	311+37.42	18.65' RT		311+50.00	25.86' RT								17										
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>																								
					3586	60	1	3	36	323	114	20	2183	810	158	289	165	209	1					

ROADWAY SUBSUMMARY

DESIGN AGENCY



DESIGNER  
NJL

REVIEWER  
ALR 10-1-21

PROJECT ID  
109451

SHEET TOTAL  
21 | 102

CLA-CR351-7.92

REF NO.	SHEET NO.	STATION TO STATION				202	202	202		204	608	608	608	609	609	609	609	609	609	SPECIAL						
						PAVEMENT REMOVED	PIPE REMOVED, 24" AND UNDER	CATCH BASIN REMOVED		SUBGRADE COMPACTION	4" CONCRETE WALK	CURB RAMP	DETECTABLE WARNING	COMBINATION CURB AND GUTTER, TYPE 3, AS PER PLAN	CURB, TYPE 3-B, AS PER PLAN	CURB, TYPE 6	COMBINATION CURB AND GUTTER, TYPE 9	COMBINATION CURB AND GUTTER, TYPE 9, AS PER PLAN	CURB, TYPE 3-A	MAILBOX REMOVED AND RESET						
					SY	FT	EACH		SY	SF	SF	SF	FT	FT	FT	FT	FT	FT	EACH							
R1	32	315+00.00	0.0' LT/RT	TO	317+14.79	0.0' LT/RT																				
R2	32	315+88.87	12.17' LT																	1						
R3	32	315+93.86	9.20' LT	TO	316+23.51	29.65' LT																				
C1	32	315+00.00	0.54' LT		316+94.79	13.00' LT							195													
C2	32	315+00.00	31.81' RT		316+94.79	13.00' RT							196													
TOTALS CARRIED TO GENERAL SUMMARY					548								391						1							

ROADWAY SUBSUMMARY

DESIGN AGENCY	<b>B&amp;N</b> burgessniple.com
DESIGNER	NJL
REVIEWER	ALR 10-1-21
PROJECT ID	109451
SHEET TOTAL	22   102

CLA-CR351-7.92

STATION RANGE			SIDE	SHEET	CADD GENERATED AREA	204	442	442	407	302	304	254	441	411	451				
					SY	SY	CY	CY	GAL	CY	CY	SY	CY	CY	SY				
210+18.47	TO	210+32.47	LT	27	3.50 9.75		1	1	1	2	2								
210+32.47	TO	212+00.00	LT/RT	27	482.18 628.46		21	24	58	88	105								
212+00.00	TO	217+00.00	LT/RT	28	2986.24 4602.27		125	146	359	640	768								
212+37.80	TO	213+28.36	LT	28	105.40														106
213+25.07	TO	213+72.41	LT	28	22.82														23
213+49.69	TO	214+40.43	LT/RT	28	329.79														330
214+36.29	TO	215+01.28	LT	28	47.23														48
214+60.62	TO	215+42.90	LT/RT	28	88.59														89
311+50.00	TO	312+38.04	RT	28	135.35														136
313+71.14	TO	314+35.64	RT	28	80.36														81
217+00.00	TO	217+98.65	LT/RT	29	251.11 253.37 307.30		11	13	31	36	52								
217+68.16	TO	217+98.70	LT	29	6.78	7													2
217+68.16	TO	217+98.70	RT	29	10.16	11													3
305+84.07	TO	305+87.07	LT/RT	30	6.89		1	1	1	1	2								
308+78.73	TO	308+98.73	LT	31	4.44	5													1
308+78.73	TO	308+98.73	RT	31	4.44	5													1
308+78.73	TO	311+50.00	LT/RT	31	914.28 915.76 1120.17		39	45	110	128	187								
311+38.39		311+50.00	RT	31	11.64														12
315+00.00		317+14.79	LT/RT	32	572.22 573.70 721.02		24	28	69	80	121								
316+94.79		318+09.29	LT	32	25.43														6
316+94.79		317+16.51	RT	32	4.83														2
SUBTOTALS						28.00	222.00	258.00	629.00	975.00	1237.00			15.00	825.00				
TOTALS CARRIED TO GENERAL SUMMARY						28	222	258	629	975	1237			15	825				

PAVEMENT SUBSUMMARY

DESIGN AGENCY  
  
 burgessniple.com

DESIGNER  
 NJL

REVIEWER  
 ALR 10-1-21

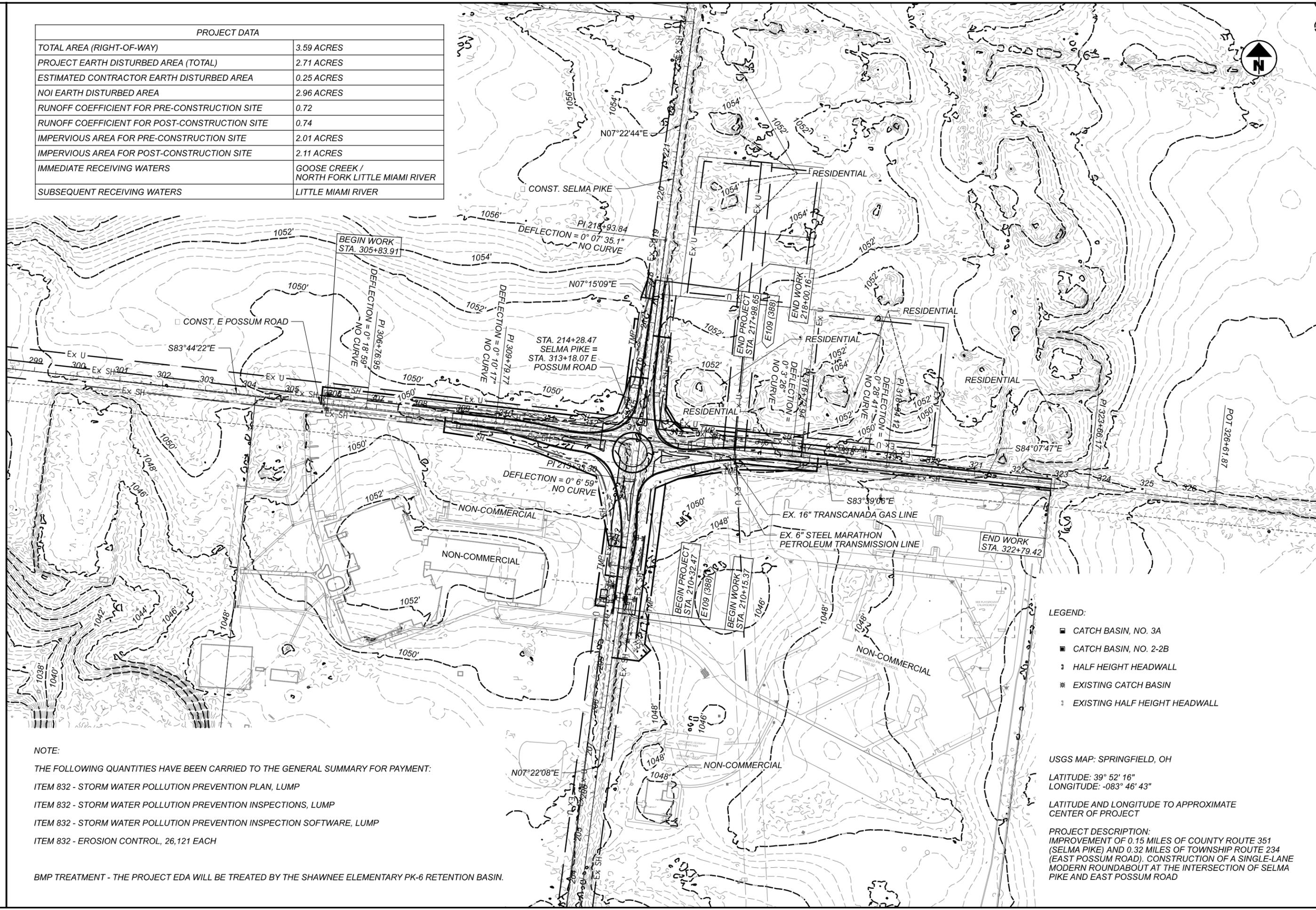
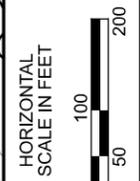
PROJECT ID  
 109451

SHEET TOTAL  
 23 | 102





PROJECT DATA	
TOTAL AREA (RIGHT-OF-WAY)	3.59 ACRES
PROJECT EARTH DISTURBED AREA (TOTAL)	2.71 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	0.25 ACRES
NOI EARTH DISTURBED AREA	2.96 ACRES
RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.72
RUNOFF COEFFICIENT FOR POST-CONSTRUCTION SITE	0.74
IMPERVIOUS AREA FOR PRE-CONSTRUCTION SITE	2.01 ACRES
IMPERVIOUS AREA FOR POST-CONSTRUCTION SITE	2.11 ACRES
IMMEDIATE RECEIVING WATERS	GOOSE CREEK / NORTH FORK LITTLE MIAMI RIVER
SUBSEQUENT RECEIVING WATERS	LITTLE MIAMI RIVER



SITE PLAN

- LEGEND:
- CATCH BASIN, NO. 3A
  - CATCH BASIN, NO. 2-2B
  - ⌈ HALF HEIGHT HEADWALL
  - ⊗ EXISTING CATCH BASIN
  - ⌈ EXISTING HALF HEIGHT HEADWALL

USGS MAP: SPRINGFIELD, OH  
 LATITUDE: 39° 52' 16"  
 LONGITUDE: -083° 46' 43"

LATITUDE AND LONGITUDE TO APPROXIMATE CENTER OF PROJECT

PROJECT DESCRIPTION:  
 IMPROVEMENT OF 0.15 MILES OF COUNTY ROUTE 351 (SELMA PIKE) AND 0.32 MILES OF TOWNSHIP ROUTE 234 (EAST POSSUM ROAD). CONSTRUCTION OF A SINGLE-LANE MODERN ROUNDABOUT AT THE INTERSECTION OF SELMA PIKE AND EAST POSSUM ROAD

NOTE:  
 THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR PAYMENT:  
 ITEM 832 - STORM WATER POLLUTION PREVENTION PLAN, LUMP  
 ITEM 832 - STORM WATER POLLUTION PREVENTION INSPECTIONS, LUMP  
 ITEM 832 - STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE, LUMP  
 ITEM 832 - EROSION CONTROL, 26,121 EACH

BMP TREATMENT - THE PROJECT EDA WILL BE TREATED BY THE SHAWNEE ELEMENTARY PK-6 RETENTION BASIN.

CLA-CR351-7.92

DESIGN AGENCY



DESIGNER  
 NJL

REVIEWER  
 KEH 10-1-21

PROJECT ID  
 109451

SHEET	TOTAL
26	102

DND = DO NOT DISTURB  
 TBR = TO BE REMOVED  
 TBRR = TO BE REMOVED & RELOCATED BY OTHERS  
 ATG = ADJUST TO GRADE

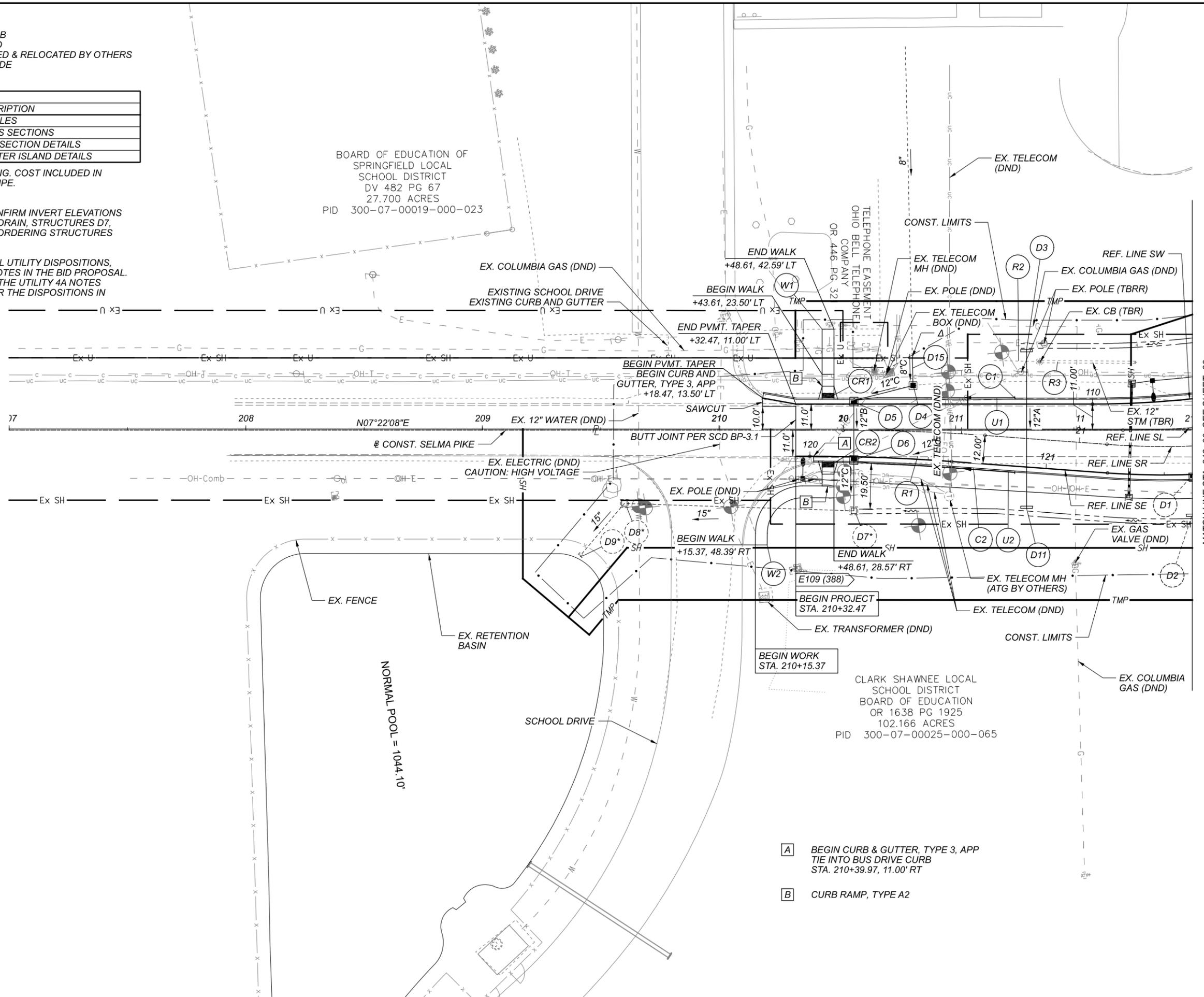
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
34 - 42	PROFILES
43 - 68	CROSS SECTIONS
69 - 73	INTERSECTION DETAILS
74 - 75	SPLITTER ISLAND DETAILS

ΔCONNECT TO EXISTING. COST INCLUDED IN PRICE PER FOOT OF PIPE.  
 INV. = 1047.99\*

\*CONTRACTOR TO CONFIRM INVERT ELEVATIONS OF EXISTING 8" ROOF DRAIN, STRUCTURES D7, D8, AND D9 PRIOR TO ORDERING STRUCTURES OR INSTALLING PIPE.

NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

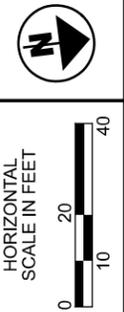
BOARD OF EDUCATION OF  
 SPRINGFIELD LOCAL  
 SCHOOL DISTRICT  
 DV 482 PG 67  
 27.700 ACRES  
 PID 300-07-00019-000-023



MATCH LINE STA. 212+00. SEE SHEET 28

- [A] BEGIN CURB & GUTTER, TYPE 3, APP TIE INTO BUS DRIVE CURB STA. 210+39.97, 11.00' RT
- [B] CURB RAMP, TYPE A2

CLARK SHAWNEE LOCAL  
 SCHOOL DISTRICT  
 BOARD OF EDUCATION  
 OR 1638 PG 1925  
 102.166 ACRES  
 PID 300-07-00025-000-065



PLAN - SELMA PIKE  
 STA. 207+00.00 TO STA. 212+00.00

CLA-CR351-7.92

DESIGN AGENCY



DESIGNER	NJL
REVIEWER	JED
PROJECT ID	10-1-21
	109451
SHEET	TOTAL
27	102



PLAN - SELMA PIKE  
STA. 212+00.00 TO STA. 217+00.00

DESIGN AGENCY



DESIGNER  
NJL

REVIEWER  
JED 10-1-21

PROJECT ID  
109451

SHEET TOTAL  
28 102

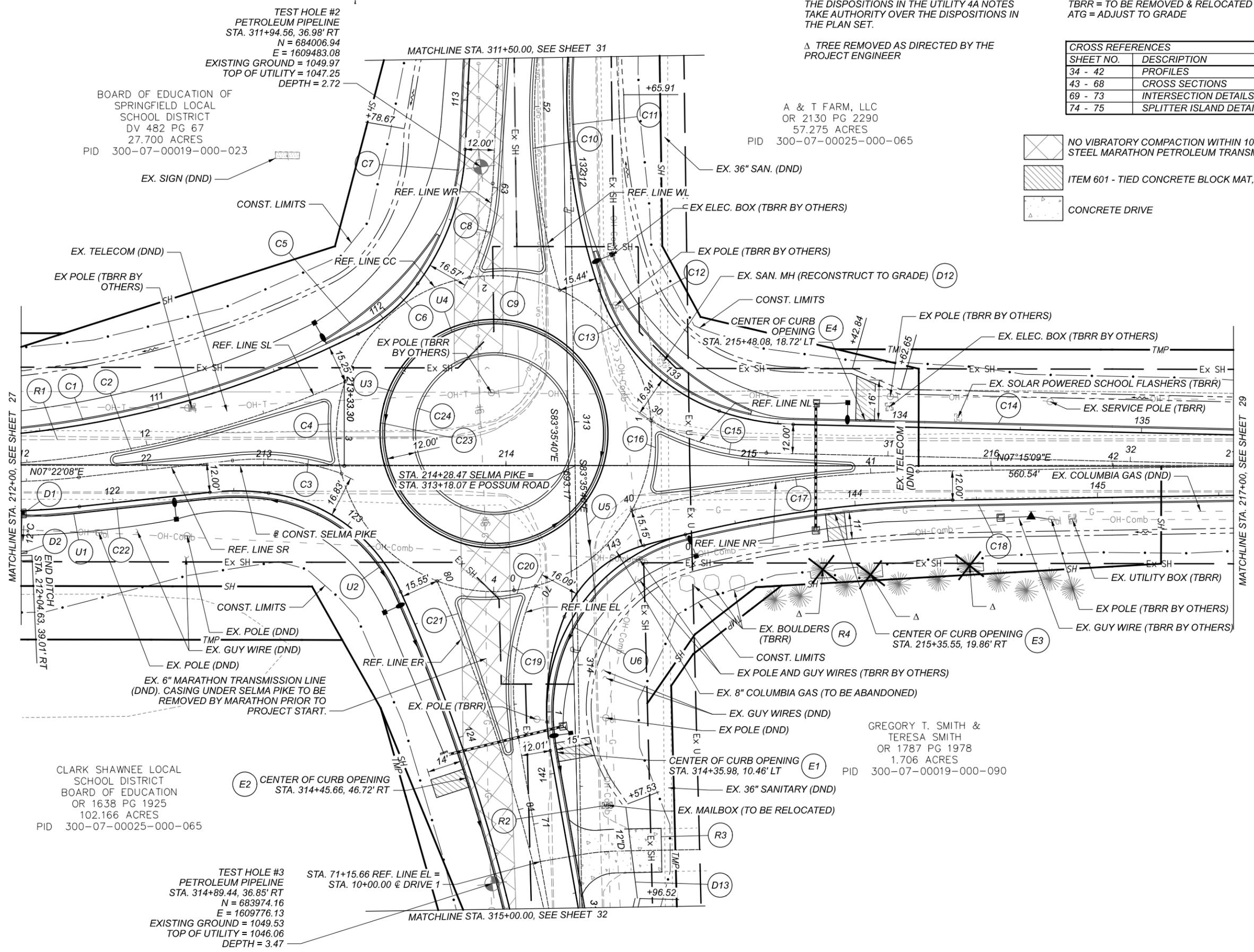
NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

DND = DO NOT DISTURB  
TBR = TO BE REMOVED  
TBRR = TO BE REMOVED & RELOCATED BY OTHERS  
ATG = ADJUST TO GRADE

Δ TREE REMOVED AS DIRECTED BY THE PROJECT ENGINEER

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
34 - 42	PROFILES
43 - 68	CROSS SECTIONS
69 - 73	INTERSECTION DETAILS
74 - 75	SPLITTER ISLAND DETAILS

- NO VIBRATORY COMPACTION WITHIN 10 FEET OF THE 6" STEEL MARATHON PETROLEUM TRANSMISSION LINE.
- ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 2, 7.75' WIDE
- CONCRETE DRIVE



TEST HOLE #2  
PETROLEUM PIPELINE  
STA. 311+94.56, 36.98' RT  
N = 684006.94  
E = 1609483.08  
EXISTING GROUND = 1049.97  
TOP OF UTILITY = 1047.25  
DEPTH = 2.72

BOARD OF EDUCATION OF  
SPRINGFIELD LOCAL  
SCHOOL DISTRICT  
DV 482 PG 67  
27.700 ACRES  
PID 300-07-00019-000-023

A & T FARM, LLC  
OR 2130 PG 2290  
57.275 ACRES  
PID 300-07-00025-000-065

CLARK SHAWNEE LOCAL  
SCHOOL DISTRICT  
BOARD OF EDUCATION  
OR 1638 PG 1925  
102.166 ACRES  
PID 300-07-00025-000-065

TEST HOLE #3  
PETROLEUM PIPELINE  
STA. 314+89.44, 36.85' RT  
N = 683974.16  
E = 1609776.13  
EXISTING GROUND = 1049.53  
TOP OF UTILITY = 1046.06  
DEPTH = 3.47

STA. 71+15.66 REF. LINE EL =  
STA. 10+00.00 @ DRIVE 1

GREGORY T. SMITH &  
TERESA SMITH  
OR 1787 PG 1978  
1.706 ACRES  
PID 300-07-00019-000-090

MATCHLINE STA. 212+00. SEE SHEET 27

MATCHLINE STA. 217+00. SEE SHEET 29

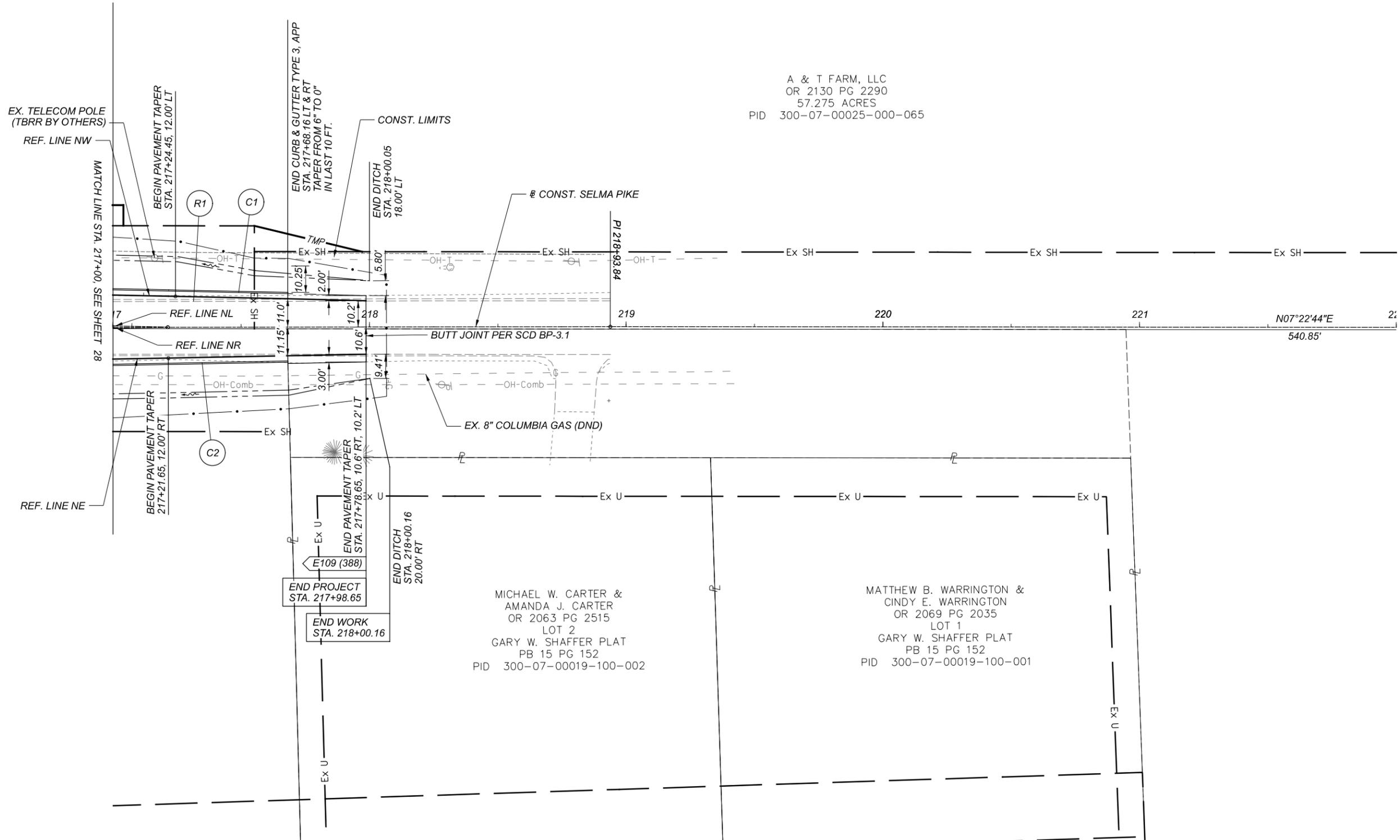
MATCHLINE STA. 311+50.00, SEE SHEET 31

MATCHLINE STA. 315+00.00, SEE SHEET 32

DND = DO NOT DISTURB  
 TBR = TO BE REMOVED  
 TBRR = TO BE REMOVED & RELOCATED BY OTHERS  
 ATG = ADJUST TO GRADE

NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS,  
 SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL.  
 THE DISPOSITIONS IN THE UTILITY 4A NOTES  
 TAKE AUTHORITY OVER THE DISPOSITIONS IN  
 THE PLAN SET.

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
34 - 42	PROFILES
43 - 68	CROSS SECTIONS
69 - 73	INTERSECTION DETAILS
74 - 75	SPLITTER ISLAND DETAILS



A & T FARM, LLC  
 OR 2130 PG 2290  
 57.275 ACRES  
 PID 300-07-00025-000-065

MICHAEL W. CARTER &  
 AMANDA J. CARTER  
 OR 2063 PG 2515  
 LOT 2  
 GARY W. SHAFFER PLAT  
 PB 15 PG 152  
 PID 300-07-00019-100-002

MATTHEW B. WARRINGTON &  
 CINDY E. WARRINGTON  
 OR 2069 PG 2035  
 LOT 1  
 GARY W. SHAFFER PLAT  
 PB 15 PG 152  
 PID 300-07-00019-100-001

CLA-CR351-7.92



PLAN - SELMA PIKE  
 STA. 217+00.00 TO STA. 222+00.00

DESIGN AGENCY



DESIGNER  
 NJL

REVIEWER  
 JED 10-1-21

PROJECT ID  
 109451

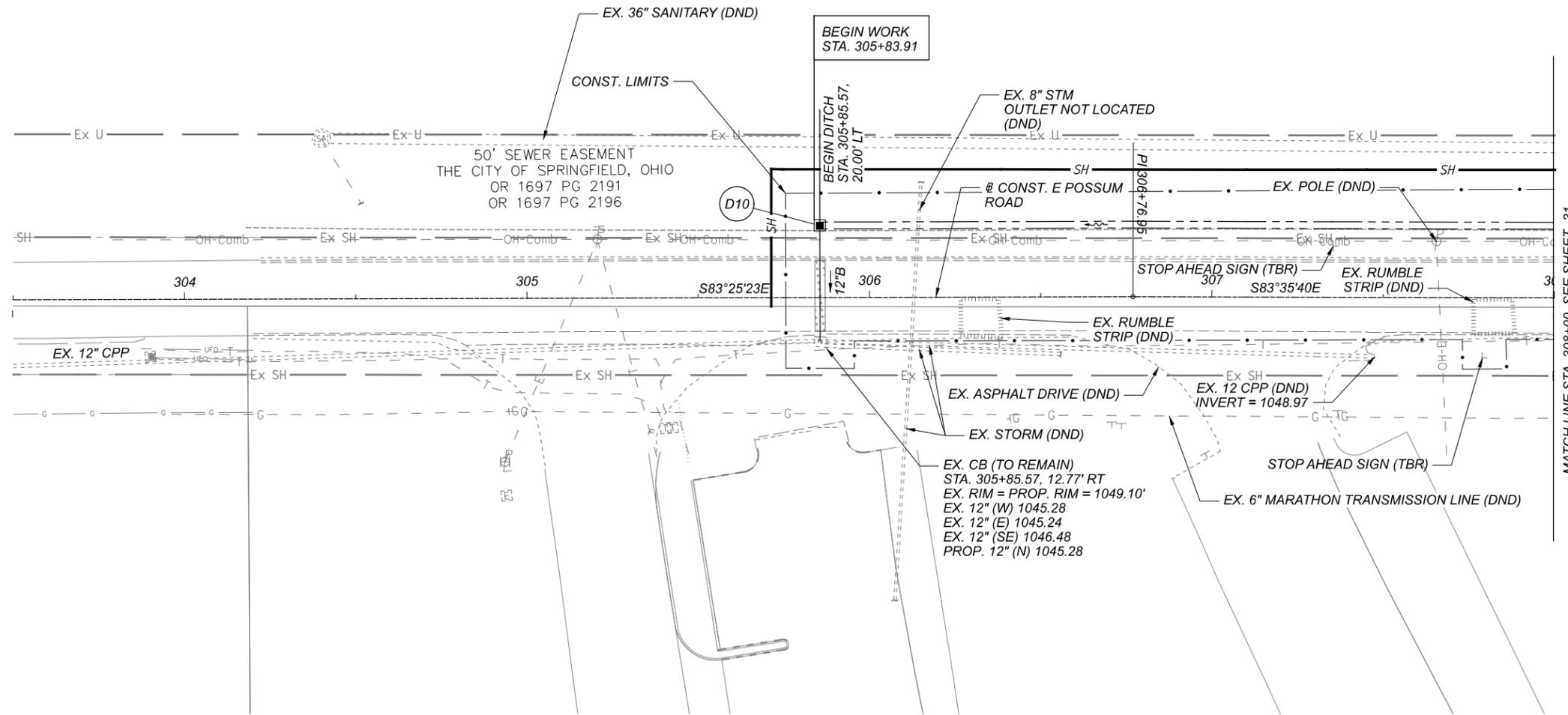
SHEET TOTAL  
 29 102

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CROSS REFERENCES	
SHEET NO.	DESCRIPTION
34 - 42	PROFILES
43 - 68	CROSS SECTIONS
69 - 73	INTERSECTION DETAILS
74 - 75	SPLITTER ISLAND DETAILS

 PROPOSED FULL DEPTH PAVEMENT

NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS,  
 SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL.  
 THE DISPOSITIONS IN THE UTILITY 4A NOTES  
 TAKE AUTHORITY OVER THE DISPOSITIONS IN  
 THE PLAN SET.



PLAN - E POSSUM ROAD  
 STA. 303+50.00 TO STA. 308+00.00

DESIGN AGENCY



DESIGNER  
 NJL

REVIEWER  
 JED 10-1-21

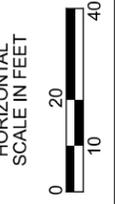
PROJECT ID  
 109451

SHEET TOTAL  
 30 102

CLA-CR351-7.92

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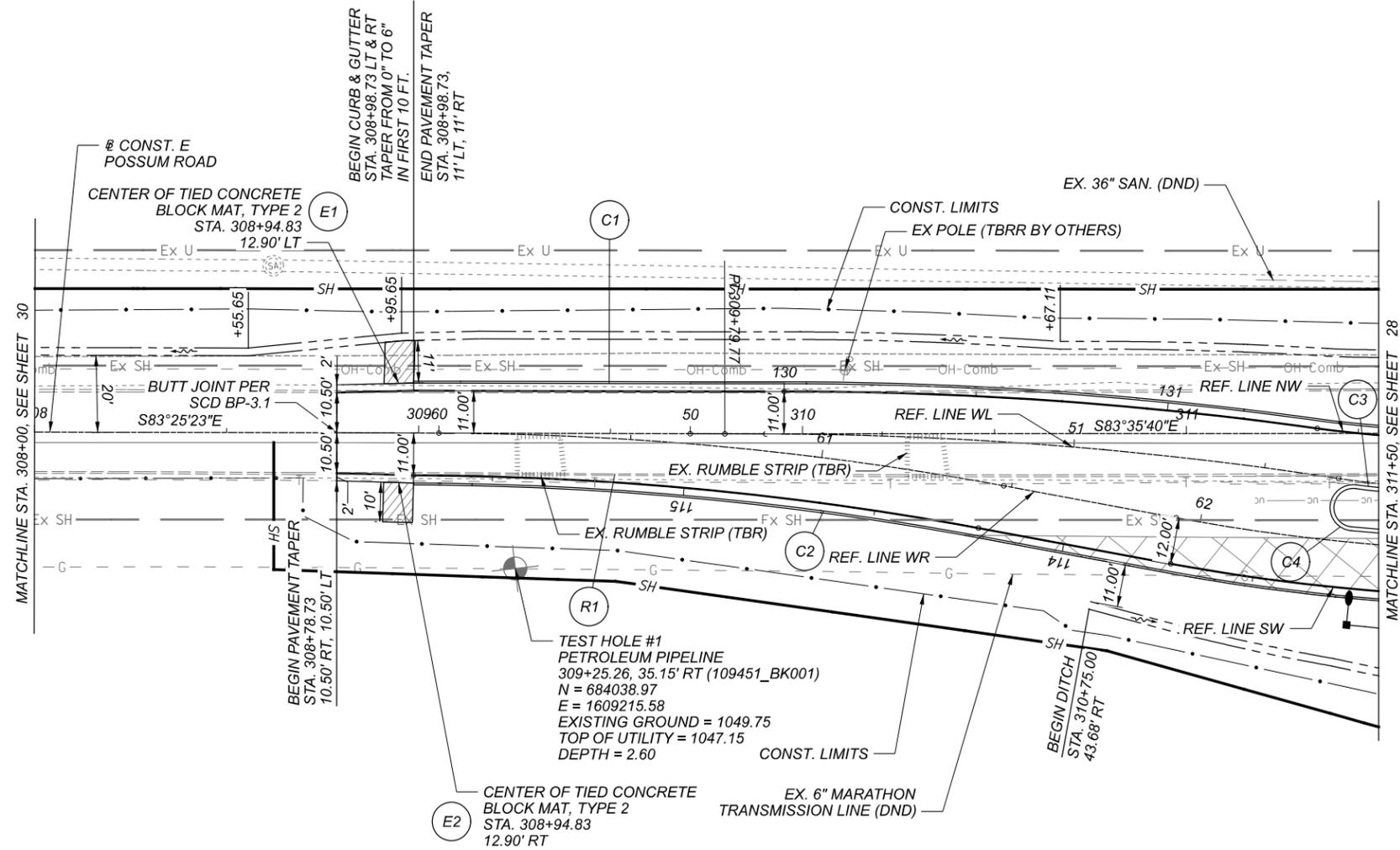
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
34 - 42	PROFILES
43 - 68	CROSS SECTIONS
69 - 73	INTERSECTION DETAILS
74 - 75	SPLITTER ISLAND DETAILS



 NO VIBRATORY COMPACTION WITHIN 10 FEET OF THE 6" STEEL MARATHON PETROLEUM TRANSMISSION LINE.

 ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 2, 7.75' WIDE

NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.



PLAN - E POSSUM ROAD  
 STA. 308+00.00 TO STA. 311+50.00

DESIGN AGENCY



DESIGNER	NJL
REVIEWER	JED
PROJECT ID	10-1-21
SHEET	109451
TOTAL	102

DND = DO NOT DISTURB  
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 TBRR = TO BE REMOVED & RELOCATED BY OTHERS  
 ATG = ADJUST TO GRADE

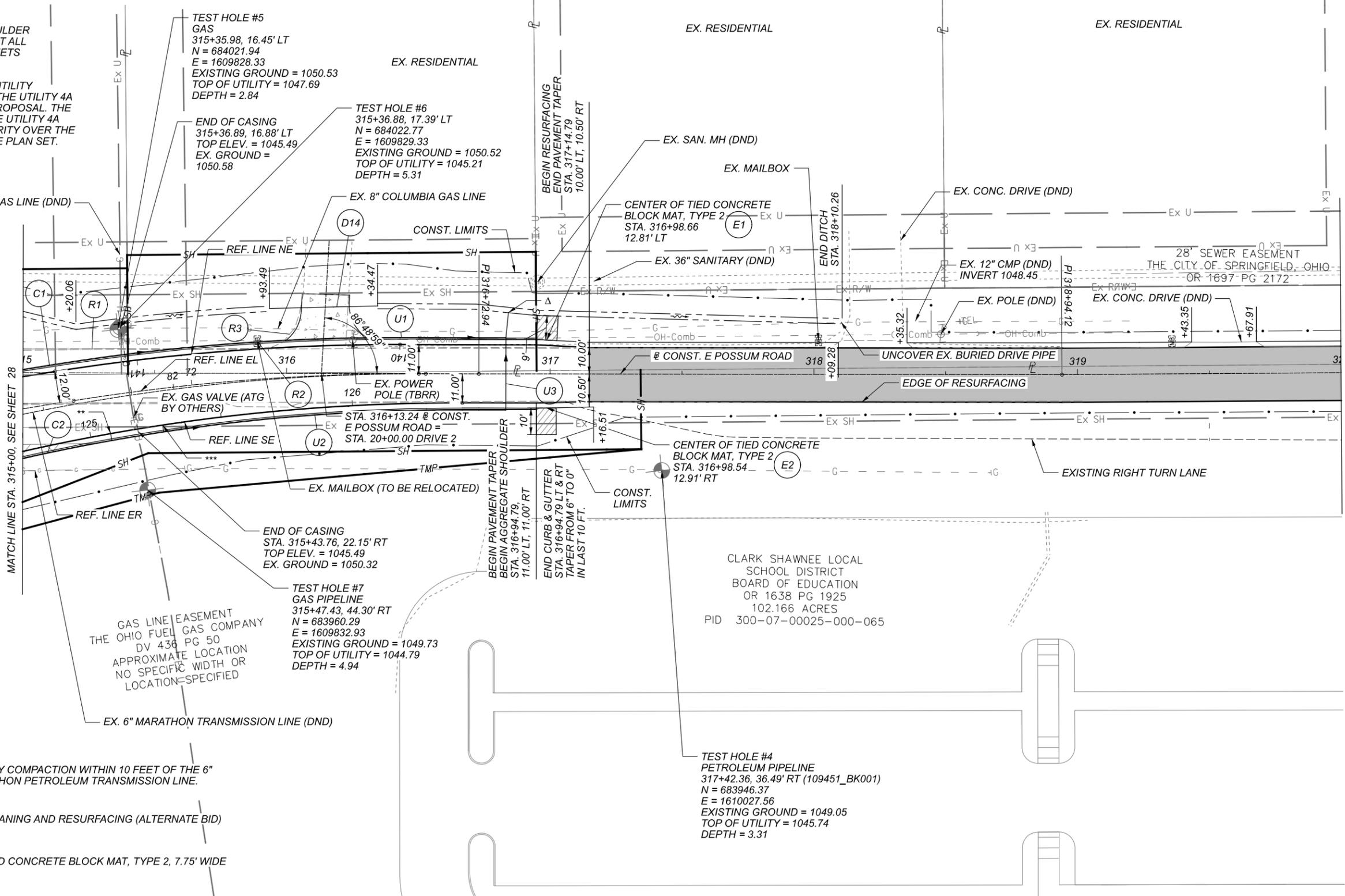
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
34 - 42	PROFILES
43 - 68	CROSS SECTIONS
69 - 73	INTERSECTION DETAILS
74 - 75	SPLITTER ISLAND DETAILS

PAUL C. HOWELL &  
 CLAUDIA L. HOWELL  
 OR 1392 PG 2639  
 1.217 ACRES  
 PID 300-07-00019-000-077

CHRISTOPHER L. ANDORFER SR. &  
 KENYA ANDORFER  
 OR 2167 PG 4308  
 LOT 3  
 GARY W. SHAFFER PLAT  
 PB 15 PG 152  
 PID 300-07-00019-100-003

NATHAN KROUSE &  
 MALLORY KROUSE  
 OR 2159 PG 898  
 LOT 4  
 GARY W. SHAFFER PLAT  
 PB 15 PG 152  
 PID 300-07-00019-100-004

NOTES:  
 1) AGGREGATE SHOULDER TO BE SUSPENDED AT ALL INTERSECTING STREETS AND DRIVES  
 2) FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.



Δ UNDERDRAIN OUTLET  
 STA. 316+84.13, 23.15' LT  
 ELEV. 1049.00

\*ITEM 601 - TIED  
 CONCRETE BLOCK MAT,  
 TYPE 2, 7.75' WIDE

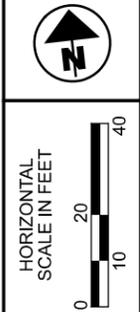
\*\* PROVIDE CURB  
 EXPANSION JOINT WITH  
 1/2" PEJF THROUGH FULL  
 CURB THICKNESS AT 10  
 FEET EACH SIDE OF  
 PIPELINE CROSSING  
 (SOUTH SIDE ONLY).  
 STA. 315+33.32, 22.96' RT

\*\*\* PROVIDE CURB  
 EXPANSION JOINT WITH  
 1/2" PEJF THROUGH FULL  
 CURB THICKNESS AT 10  
 FEET EACH SIDE OF  
 PIPELINE CROSSING  
 (SOUTH SIDE ONLY).  
 STA. 315+53.05, 19.66' RT

MATCH LINE STA. 315+00.00, SEE SHEET 28

MATCH LINE STA. 320+00.00, SEE SHEET 33

- NO VIBRATORY COMPACTION WITHIN 10 FEET OF THE 6" STEEL MARATHON PETROLEUM TRANSMISSION LINE.
- PAVEMENT PLANING AND RESURFACING (ALTERNATE BID)
- ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 2, 7.75' WIDE
- CONCRETE DRIVE



PLAN - E POSSUM ROAD  
 STA. 315+00.00 TO STA. 320+00.00

CLA-CR351-7.92

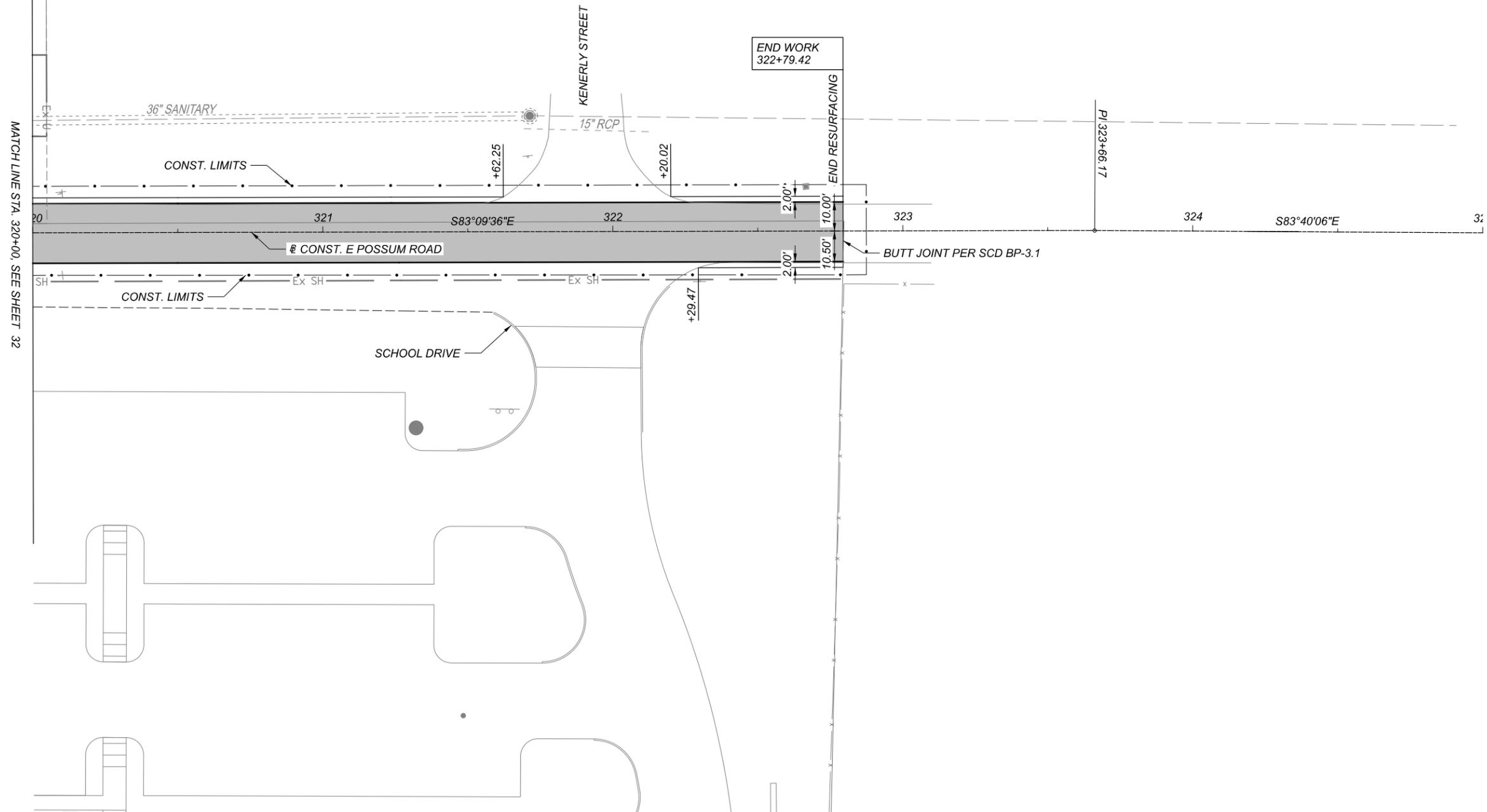
DESIGN AGENCY	
<b>B&amp;N</b> burgessniple.com	
DESIGNER	NJL
REVIEWER	JED
PROJECT ID	109451
SHEET	TOTAL
32	102

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CROSS REFERENCES	
SHEET NO.	DESCRIPTION
34 - 42	PROFILES
43 - 68	CROSS SECTIONS
69 - 73	INTERSECTION DETAILS
74 - 75	SPLITTER ISLAND DETAILS

 PAVEMENT PLANING AND RESURFACING (ALTERNATE BID)

NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS,  
 SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL.  
 THE DISPOSITIONS IN THE UTILITY 4A NOTES  
 TAKE AUTHORITY OVER THE DISPOSITIONS IN  
 THE PLAN SET.



PLAN - E POSSUM ROAD  
 STA. 320+00.00 TO STA. 325+00.00

DESIGN AGENCY

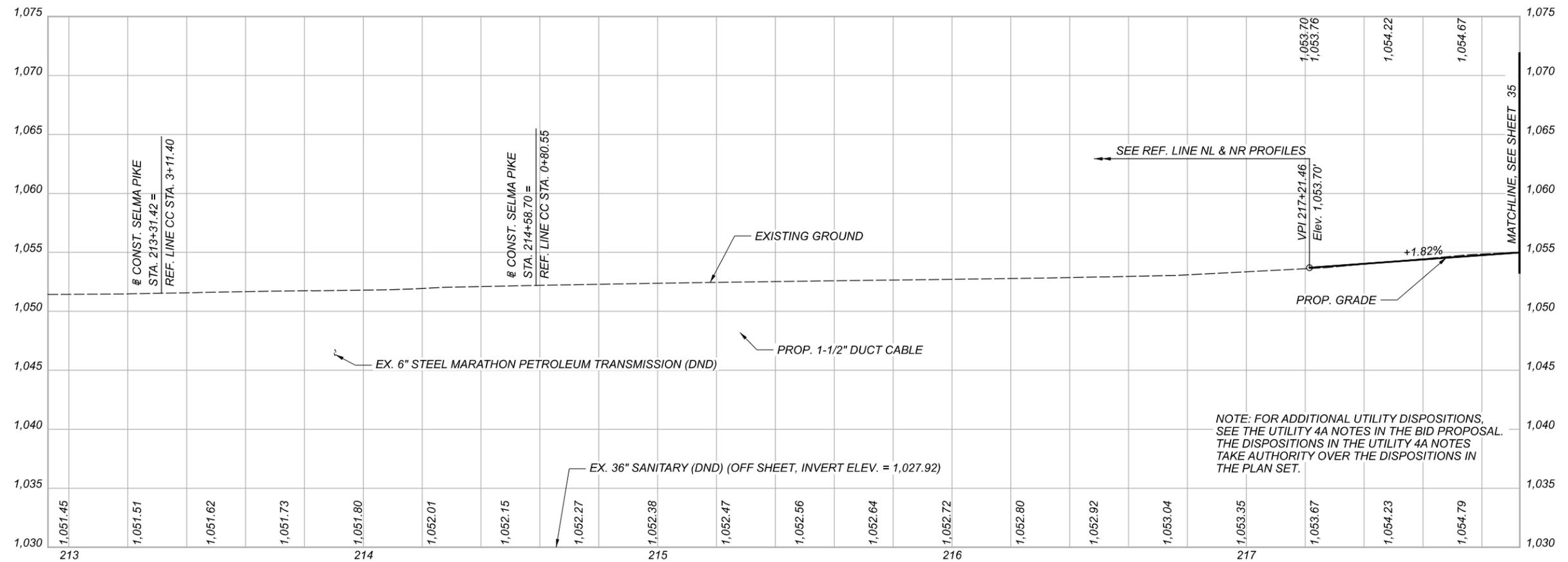
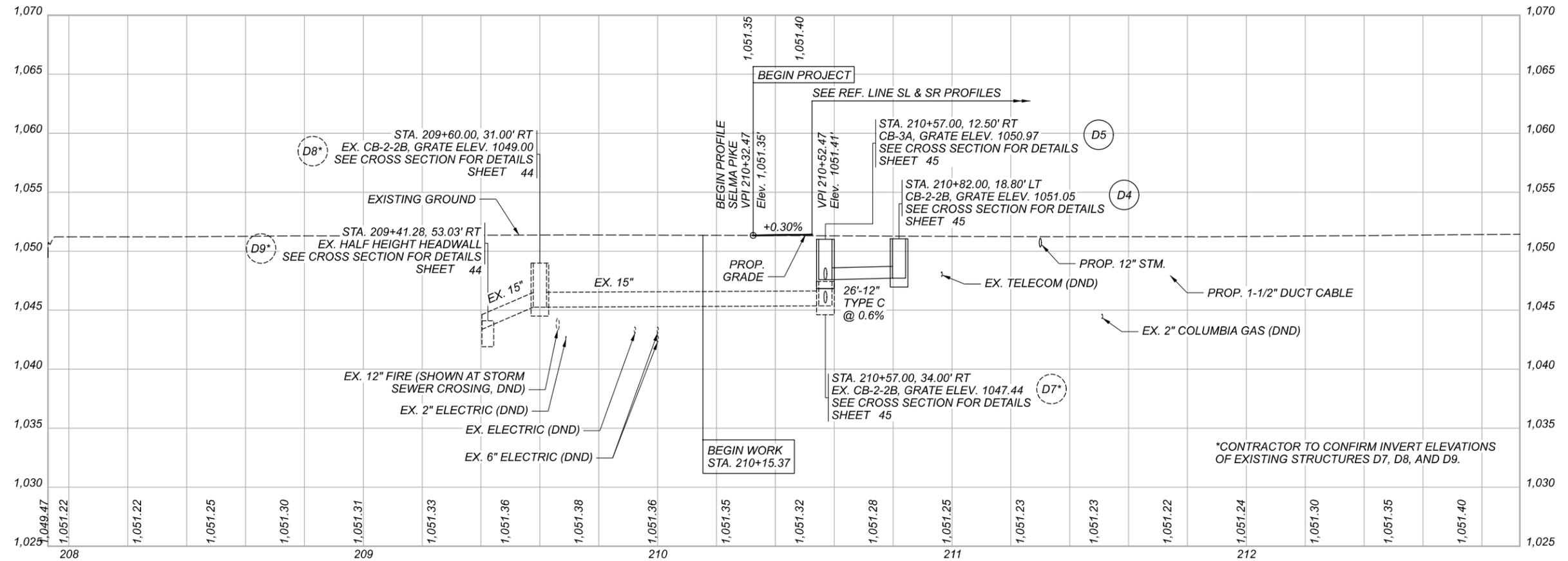


DESIGNER  
 NJL

REVIEWER  
 JED 10-1-21

PROJECT ID  
 109451

SHEET	TOTAL
33	102



\*CONTRACTOR TO CONFIRM INVERT ELEVATIONS OF EXISTING STRUCTURES D7, D8, AND D9.

NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

PROFILE  
SELMA PIKE

DESIGN AGENCY

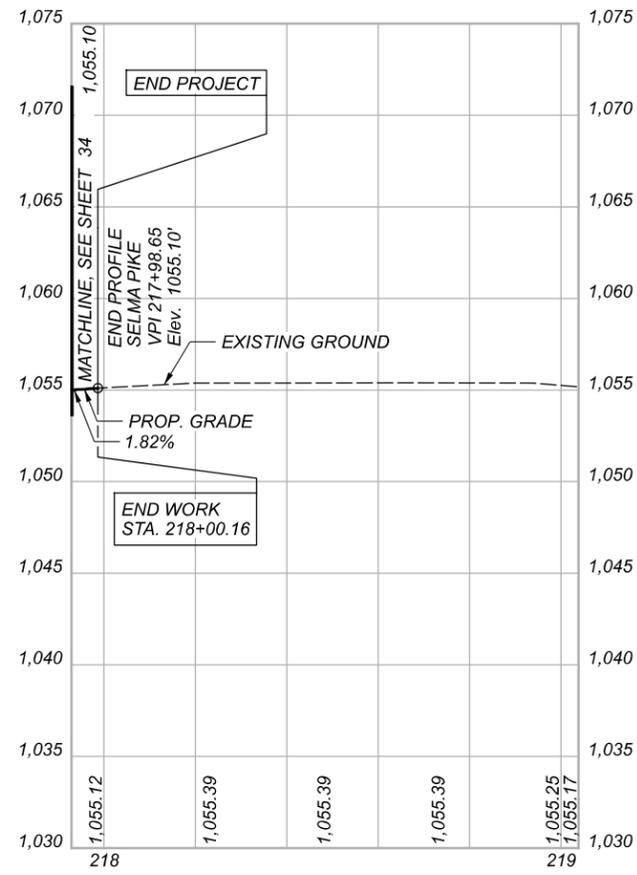


DESIGNER  
NJL

REVIEWER  
JED 10-1-21

PROJECT ID  
109451

SHEET TOTAL  
34 102



PROFILE  
SELMA PIKE

DESIGN AGENCY



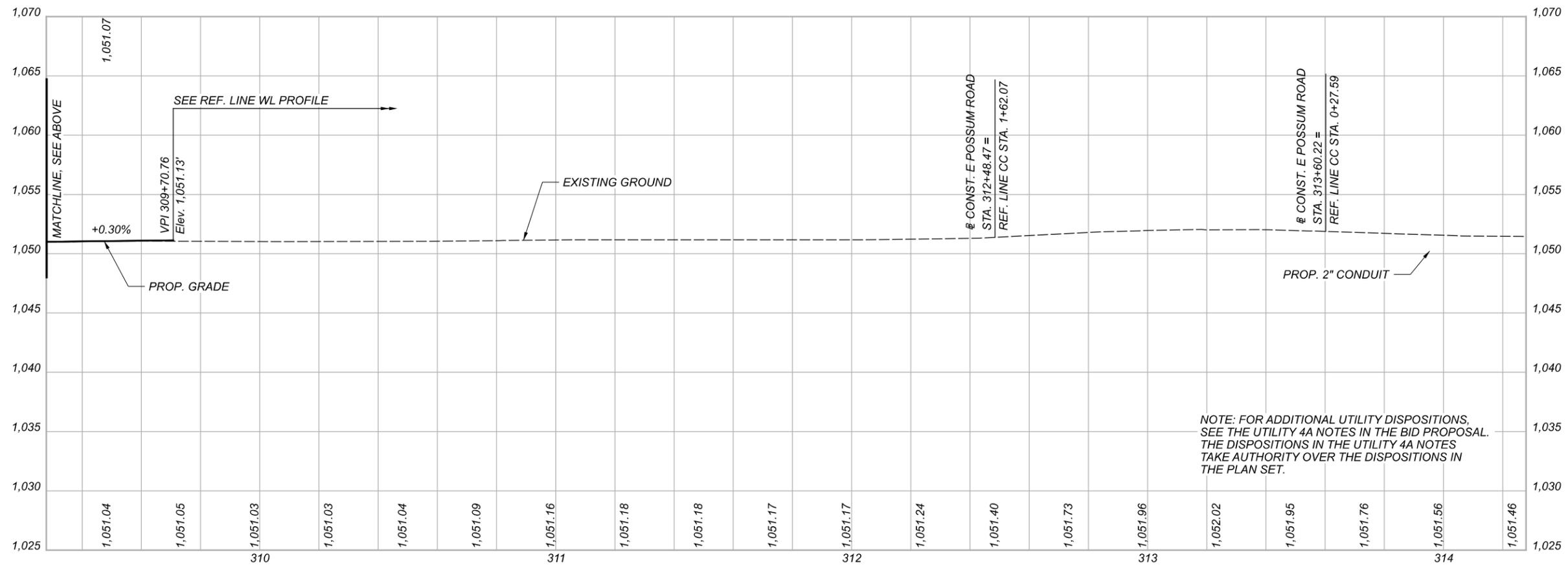
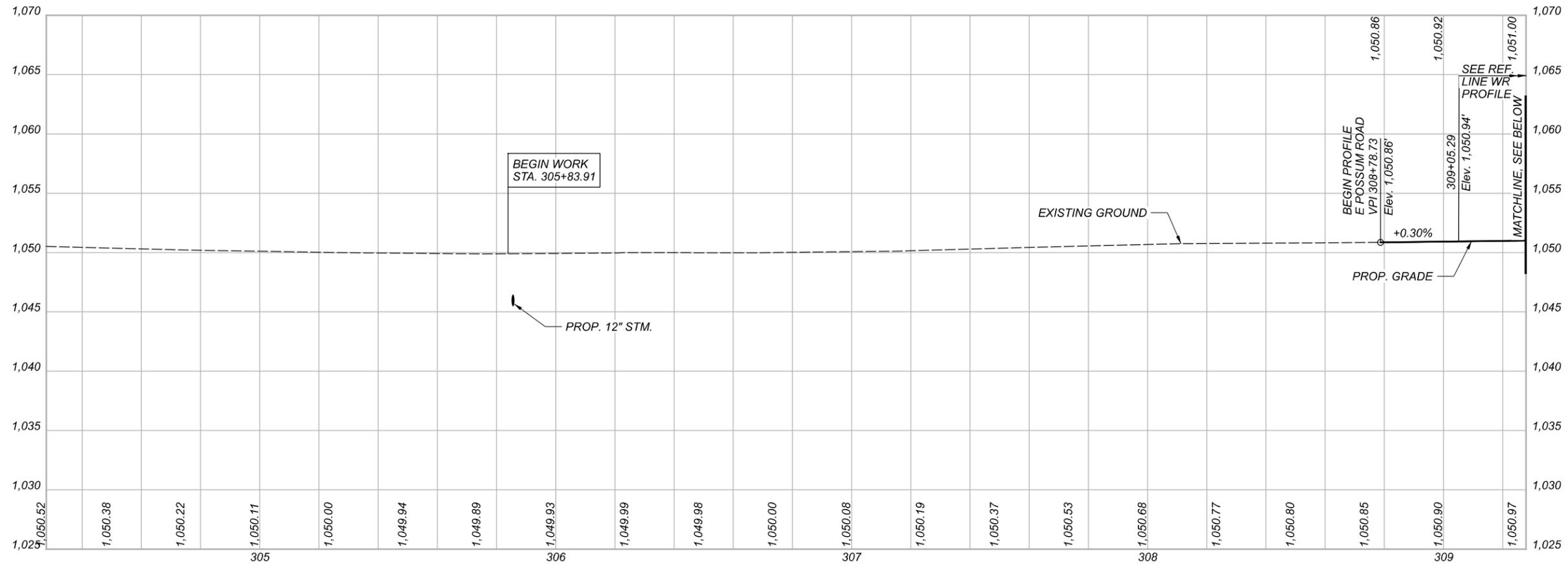
DESIGNER  
NJL

REVIEWER  
JED 10-1-21

PROJECT ID  
109451

SHEET TOTAL  
35 102

NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS,  
SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL.  
THE DISPOSITIONS IN THE UTILITY 4A NOTES  
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NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

PROFILE  
E POSSUM ROAD

DESIGN AGENCY

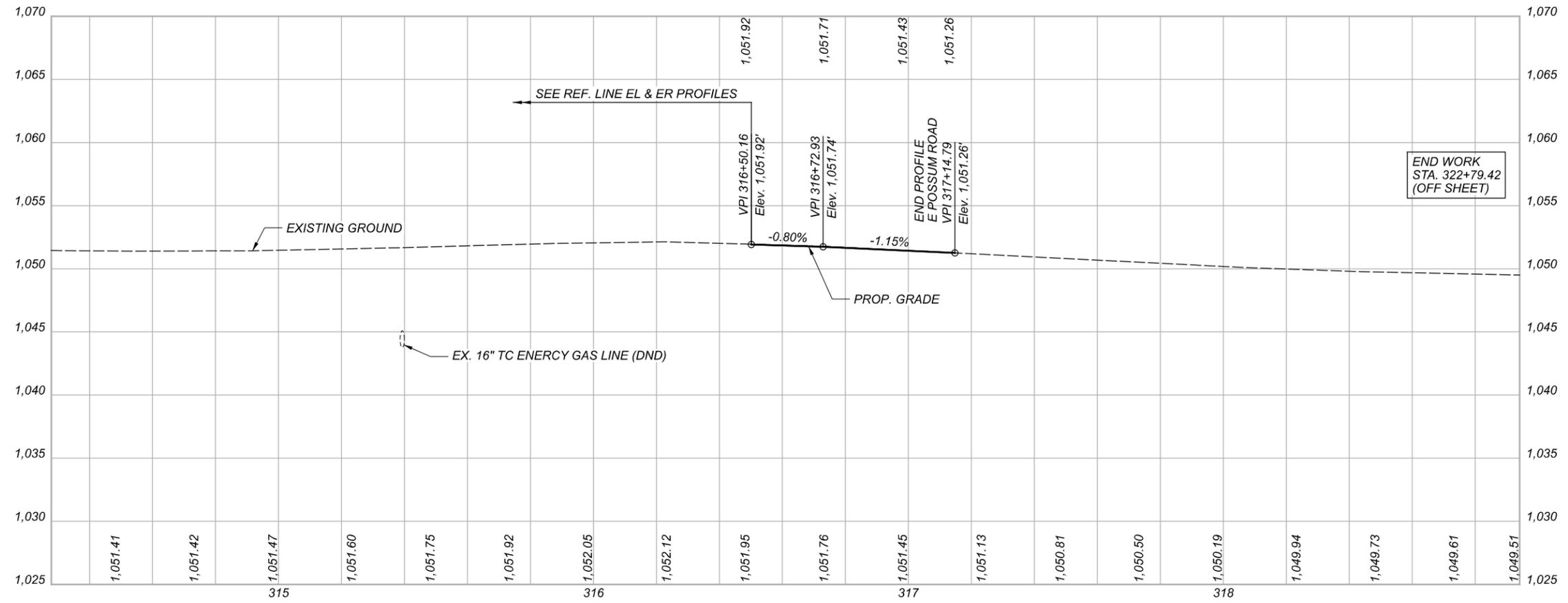


DESIGNER  
NJL

REVIEWER  
JED 10-1-21

PROJECT ID  
0

SHEET TOTAL  
36 | 102



END WORK  
STA. 322+79.42  
(OFF SHEET)

NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS,  
SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL.  
THE DISPOSITIONS IN THE UTILITY 4A NOTES  
TAKE AUTHORITY OVER THE DISPOSITIONS IN  
THE PLAN SET.

PROFILE  
E POSSUM ROAD

DESIGN AGENCY

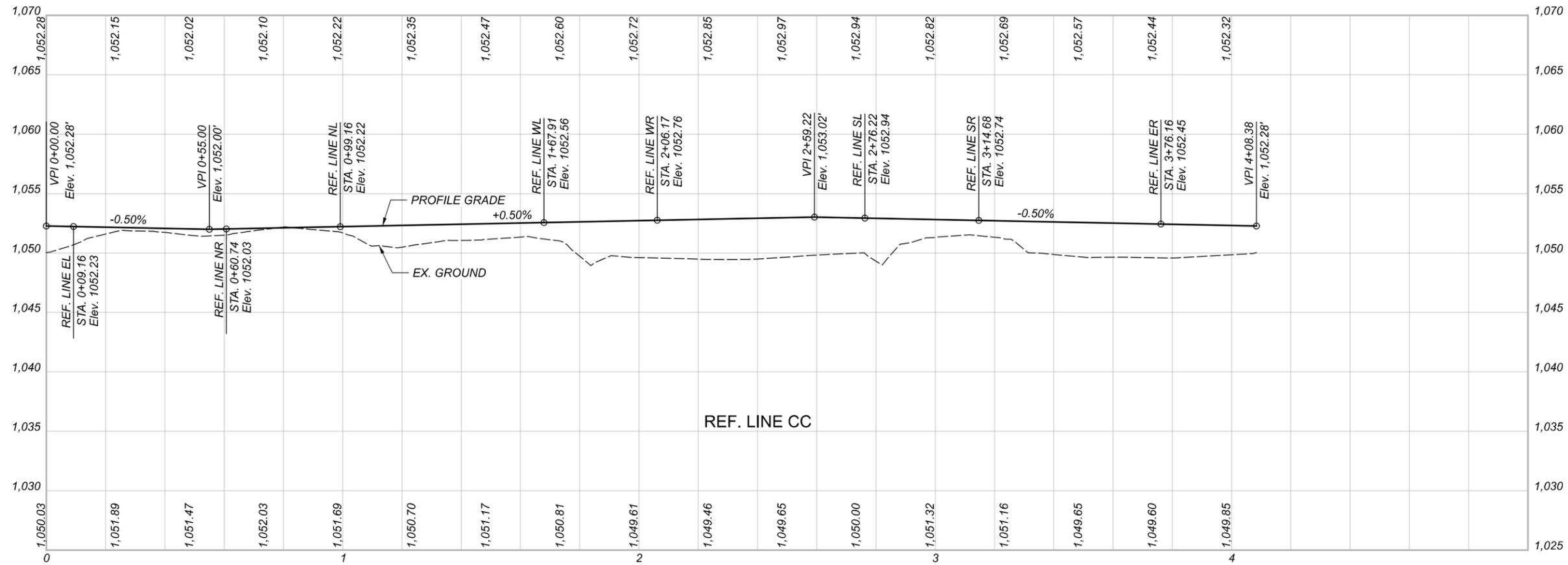


DESIGNER  
NJL

REVIEWER  
JED 10-1-21

PROJECT ID  
109451

SHEET	TOTAL
37	102



ROUNDABOUT PROFILES  
REF. LINE CC

DESIGN AGENCY

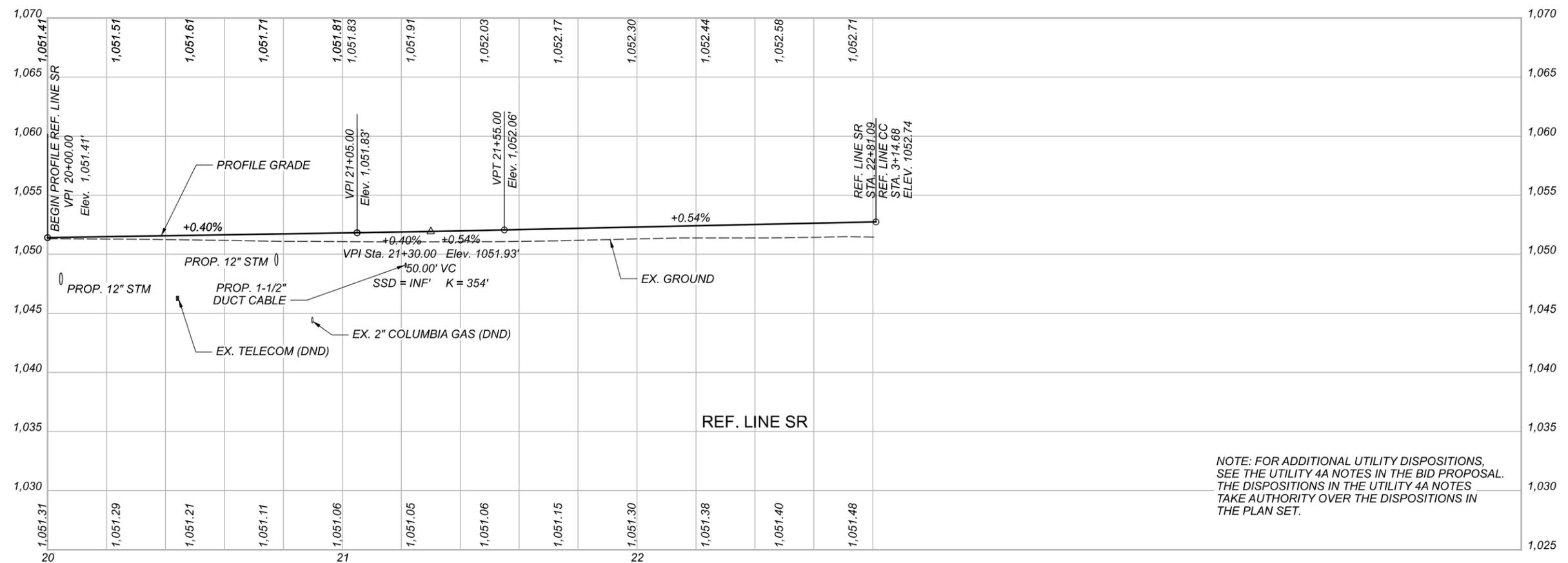
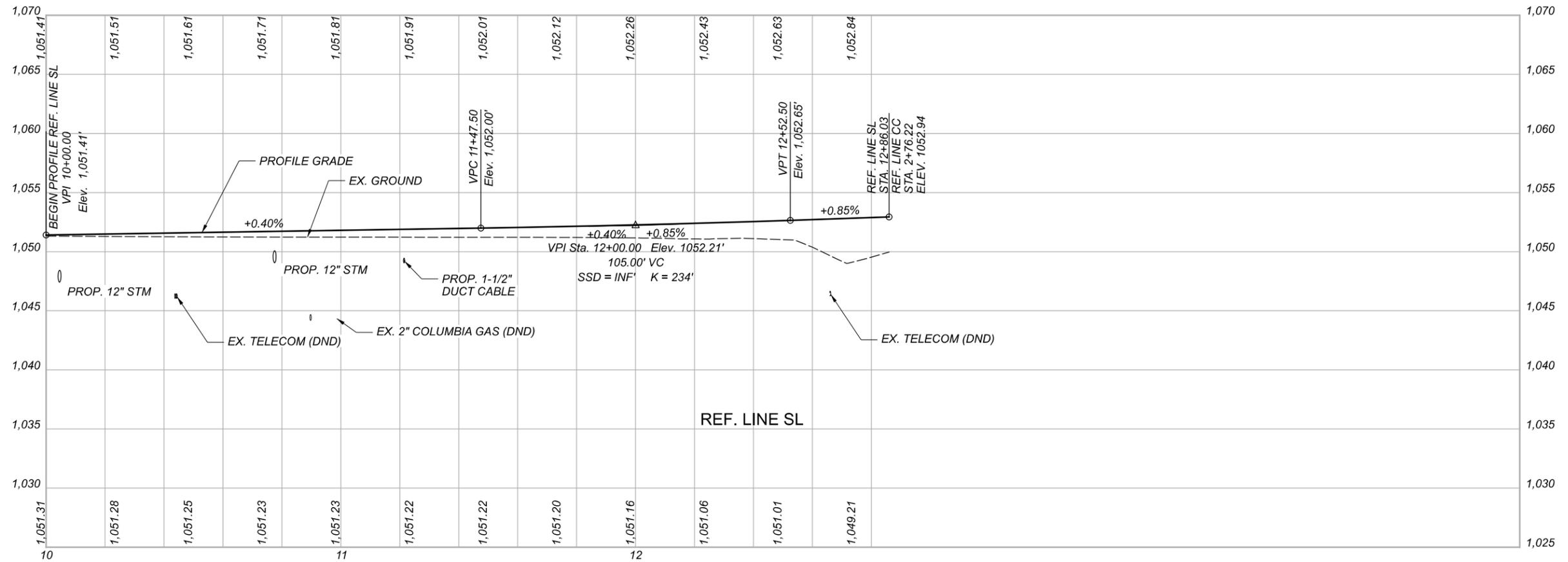


DESIGNER  
NJL

REVIEWER  
JED 10-1-21

PROJECT ID  
109451

SHEET TOTAL  
38 | 102



NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

ROUNDABOUT PROFILES  
REF. LINE SL & SR

DESIGN AGENCY

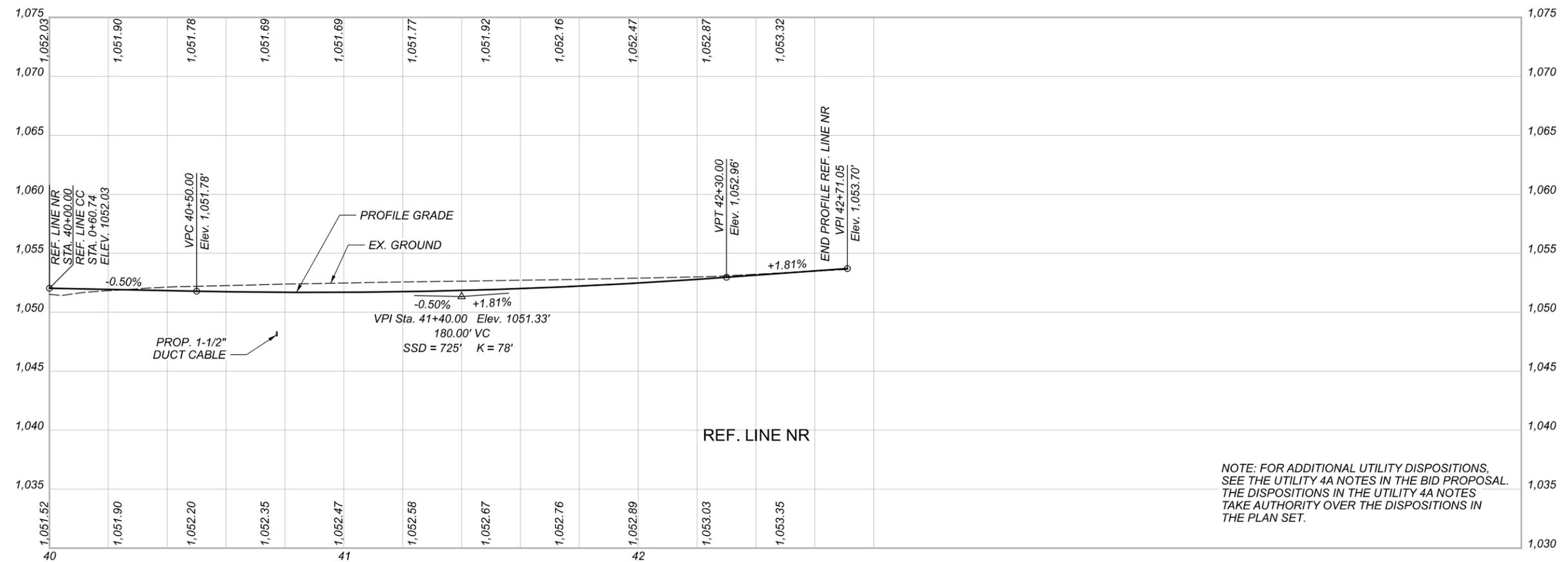
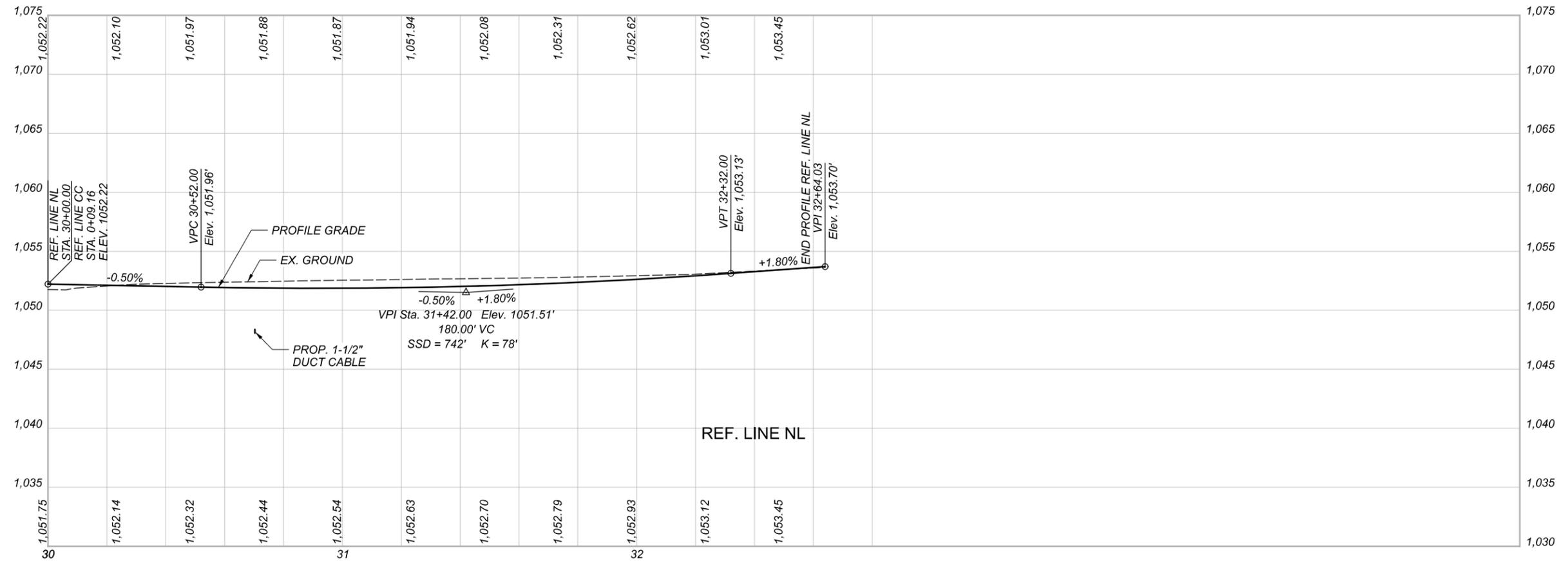


DESIGNER  
NJL

REVIEWER  
JED 10-1-21

PROJECT ID  
109451

SHEET TOTAL  
39 | 102



NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

ROUNDABOUT PROFILES  
REF. LINE NL & NR

DESIGN AGENCY

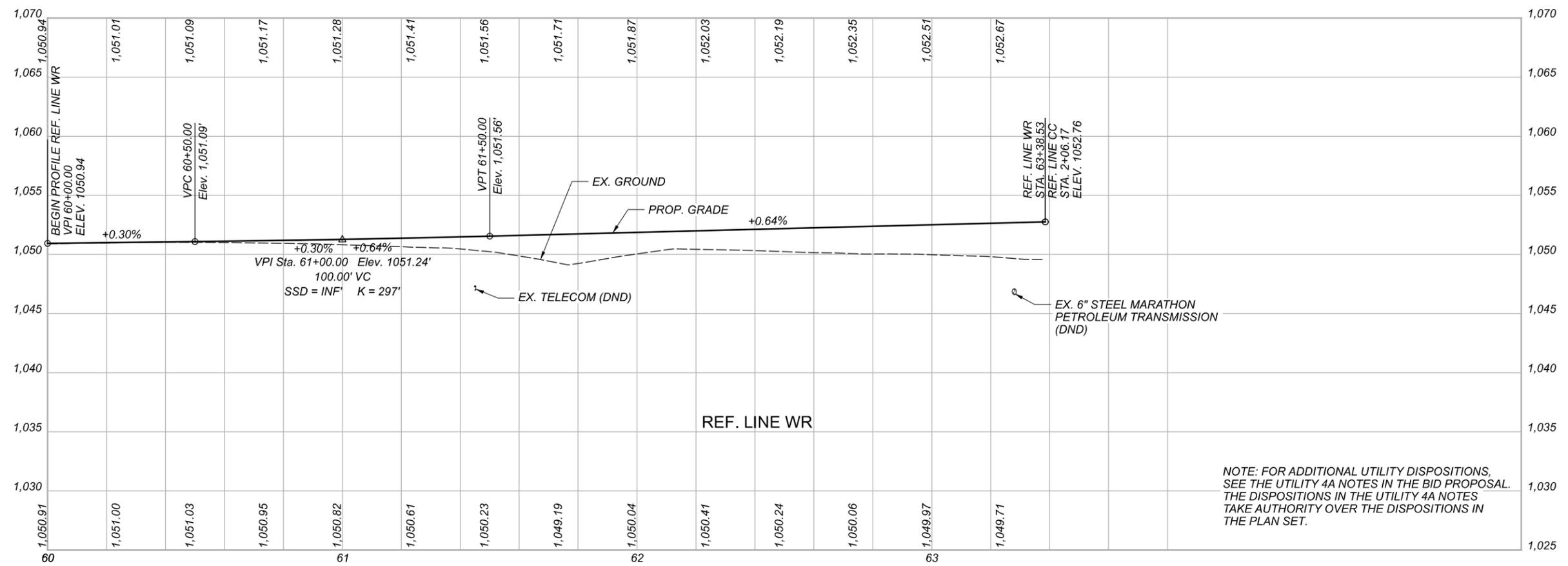
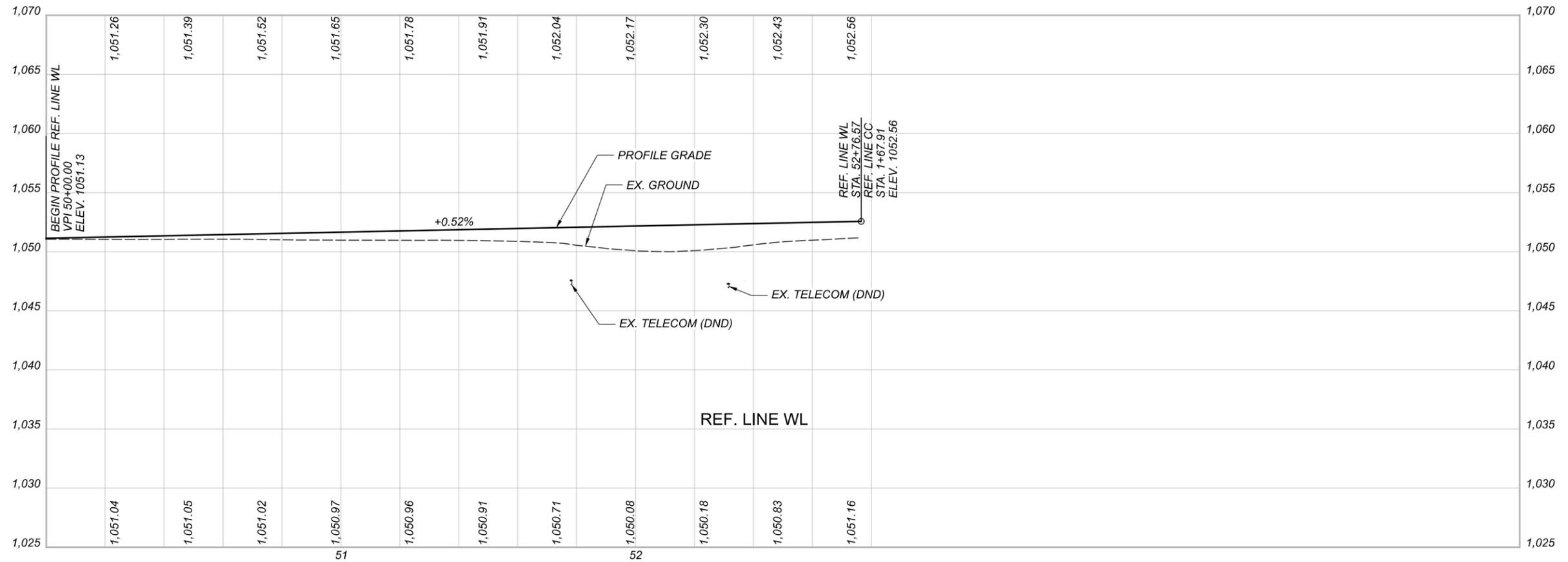


DESIGNER  
NJL

REVIEWER  
JED 10-1-21

PROJECT ID  
109451

SHEET	TOTAL
40	102



NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

ROUNDBOUT PROFILES  
REF. LINE WL & WR

DESIGN AGENCY

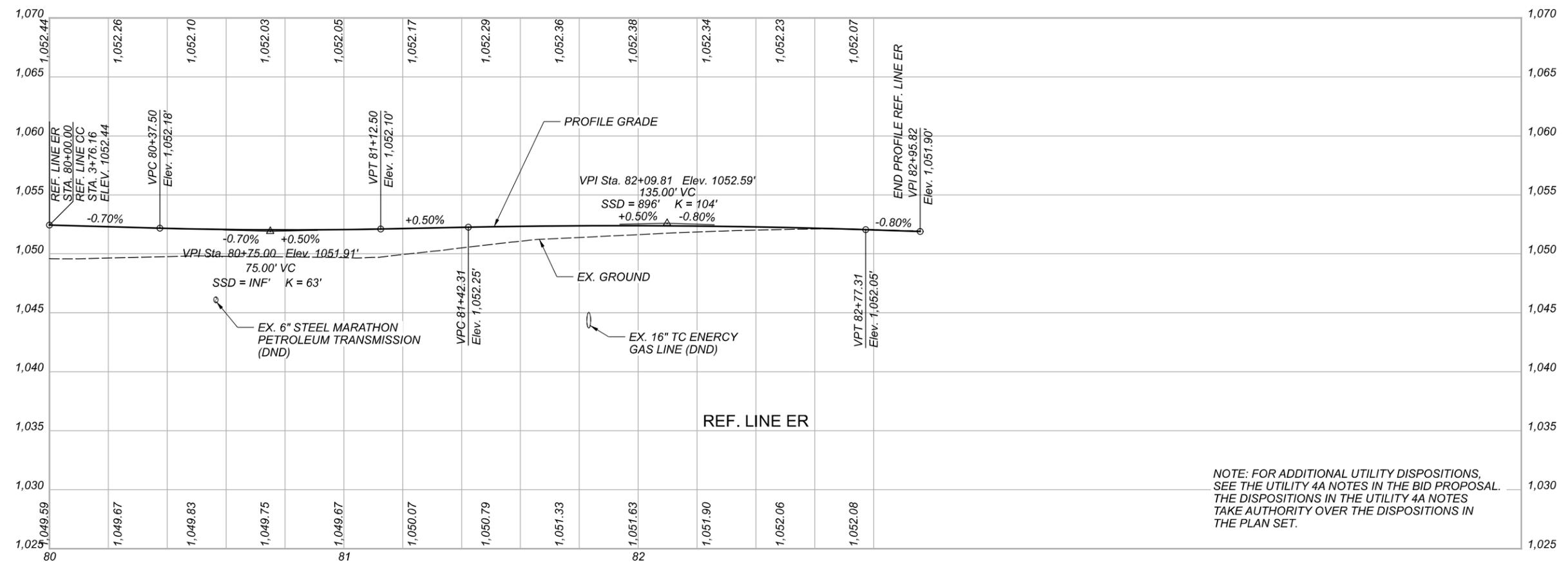
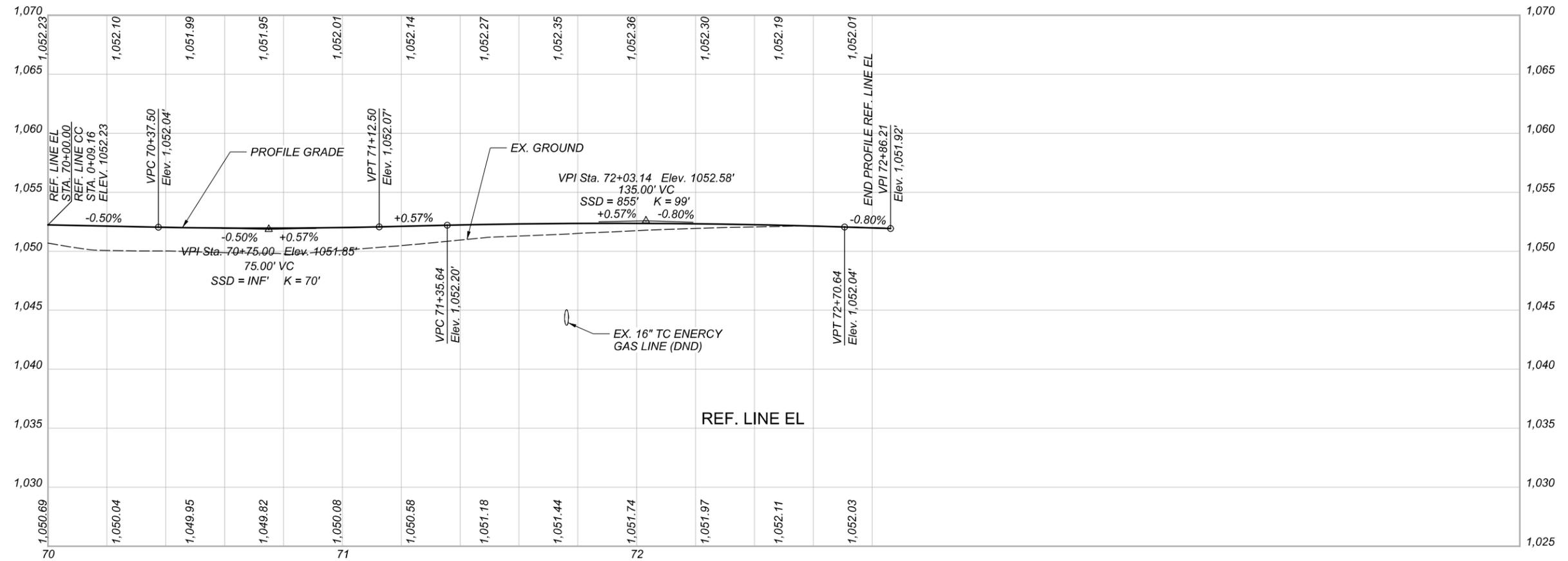


DESIGNER  
NJL

REVIEWER  
JED 10-1-21

PROJECT ID  
109451

SHEET TOTAL  
41 | 102



NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

ROUNDABOUT PROFILES  
REF. LINE EL & ER

DESIGN AGENCY

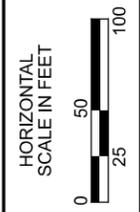
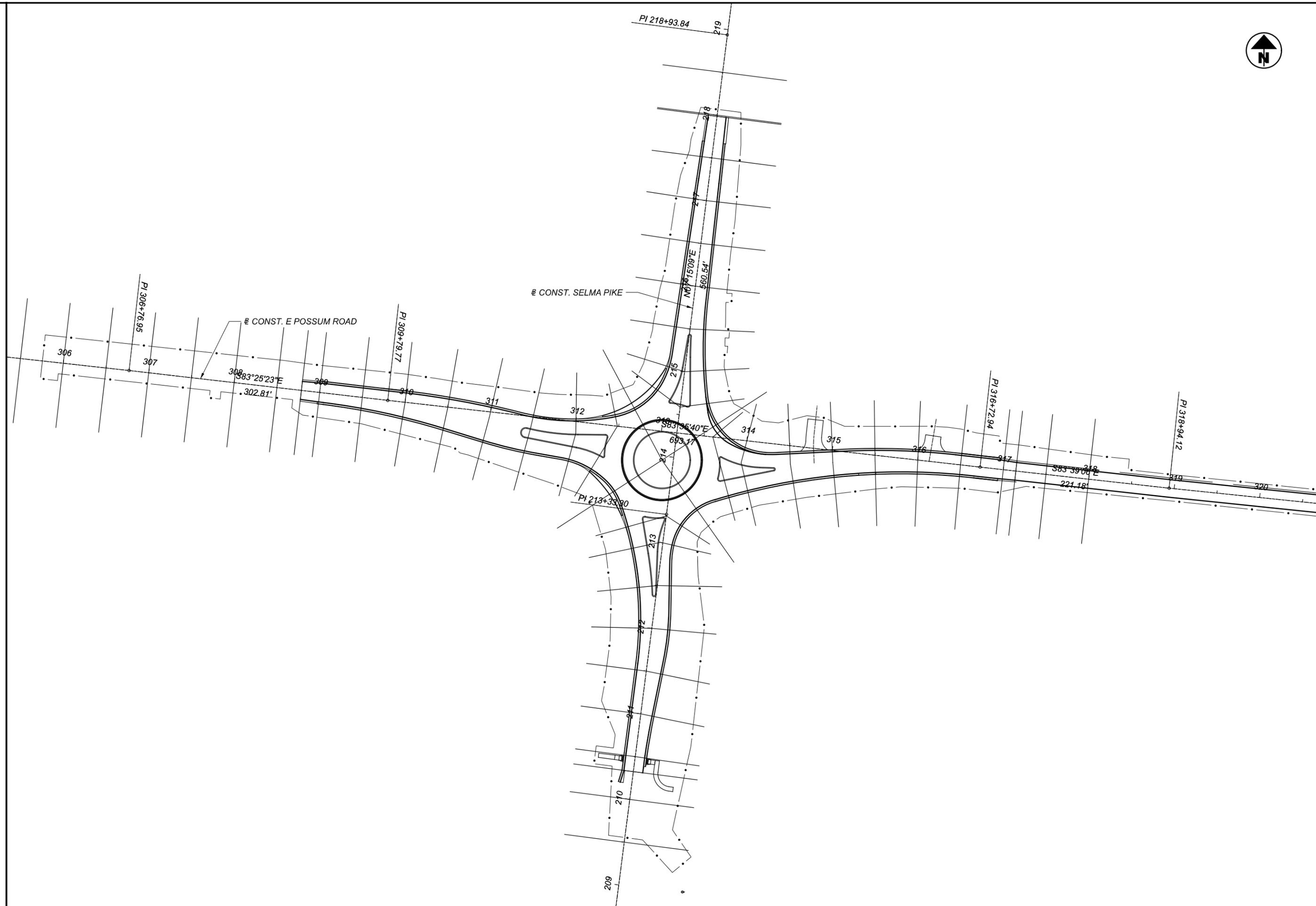


DESIGNER  
NJL

REVIEWER  
JED 10-1-21

PROJECT ID  
109451

SHEET TOTAL  
42 | 102



CROSS SECTION LAYOUT

DESIGN AGENCY

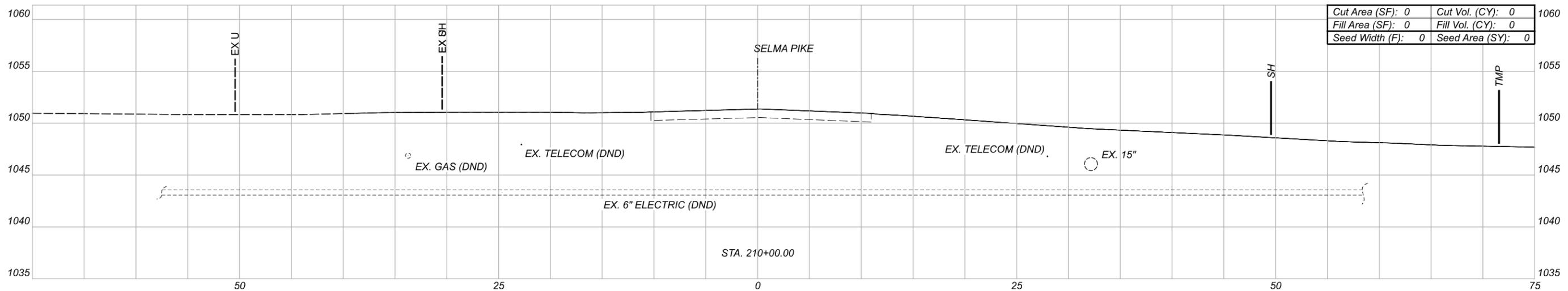


DESIGNER  
NJL

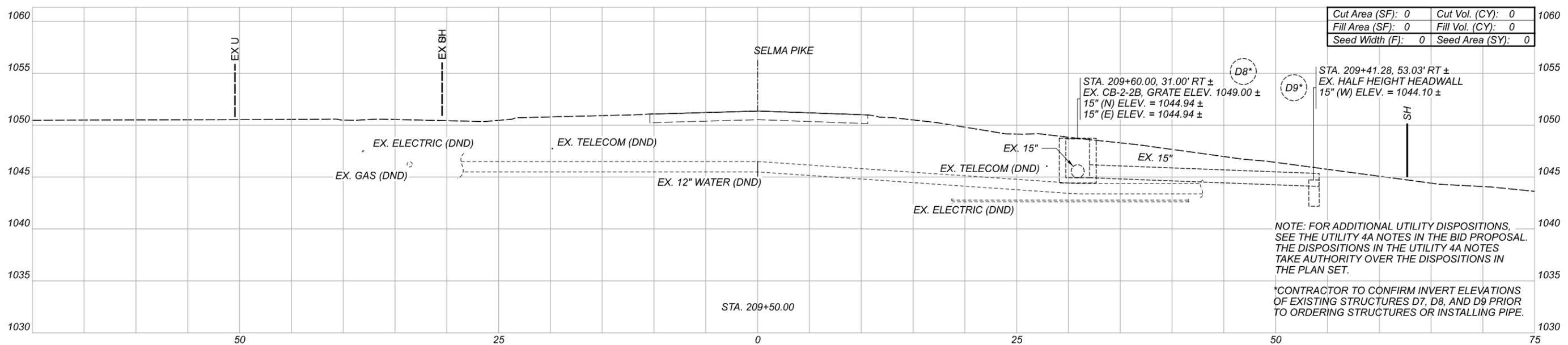
REVIEWER  
ALR 10-1-21

PROJECT ID  
109451

SHEET	TOTAL
43	102



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



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

STA. 209+60.00, 31.00' RT ±  
 EX. CB-2-2B, GRATE ELEV. 1049.00 ±  
 15" (N) ELEV. = 1044.94 ±  
 15" (E) ELEV. = 1044.94 ±

STA. 209+41.28, 53.03' RT ±  
 EX. HALF HEIGHT HEADWALL  
 15" (W) ELEV. = 1044.10 ±

NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS,  
 SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL.  
 THE DISPOSITIONS IN THE UTILITY 4A NOTES  
 TAKE AUTHORITY OVER THE DISPOSITIONS IN  
 THE PLAN SET.

\*CONTRACTOR TO CONFIRM INVERT ELEVATIONS  
 OF EXISTING STRUCTURES D7, D8, AND D9 PRIOR  
 TO ORDERING STRUCTURES OR INSTALLING PIPE.

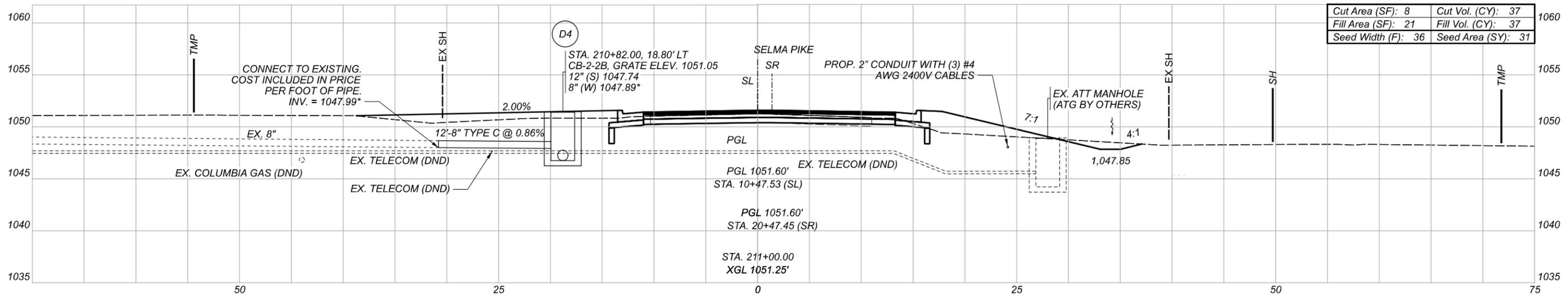
SHEET TOTAL -  
 CARRIED TO  
 SHEET 68

Seeding	Cut	Fill
0	0	0

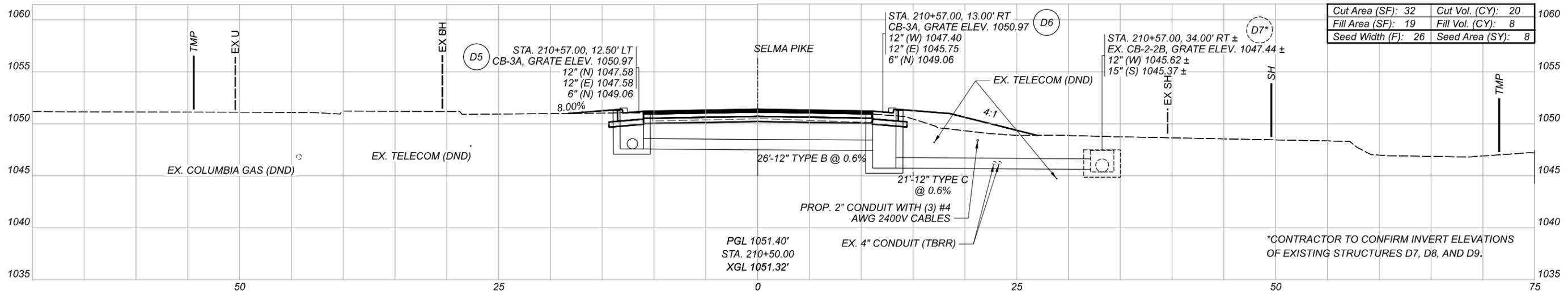
CROSS SECTIONS - SELMA PIKE  
 STA. 209+50.00 TO STA. 210+00.00



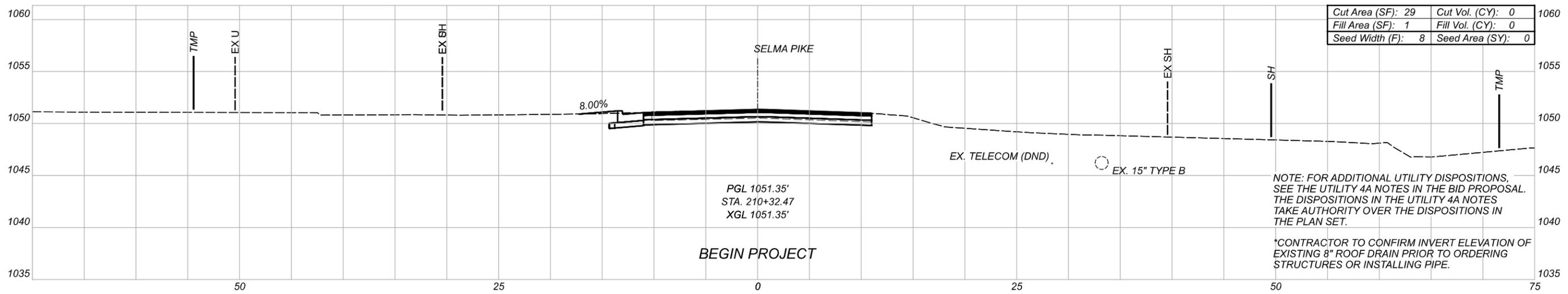
DESIGN AGENCY	
DESIGNER	NJL
REVIEWER	ALR 10-1-21
PROJECT ID	109451
SHEET	44
TOTAL	102



Cut Area (SF): 8	Cut Vol. (CY): 37
Fill Area (SF): 21	Fill Vol. (CY): 37
Seed Width (F): 36	Seed Area (SY): 31



Cut Area (SF): 32	Cut Vol. (CY): 20
Fill Area (SF): 19	Fill Vol. (CY): 8
Seed Width (F): 26	Seed Area (SY): 8



Cut Area (SF): 29	Cut Vol. (CY): 0
Fill Area (SF): 1	Fill Vol. (CY): 0
Seed Width (F): 8	Seed Area (SY): 0

BEGIN PROJECT  
STA. 210+15.37  
BEGIN WORK

NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.  
\*CONTRACTOR TO CONFIRM INVERT ELEVATION OF EXISTING 8" ROOF DRAIN PRIOR TO ORDERING STRUCTURES OR INSTALLING PIPE.

CROSS SECTIONS - SELMA PIKE  
STA. 210+32.47 TO STA. 211+00.00

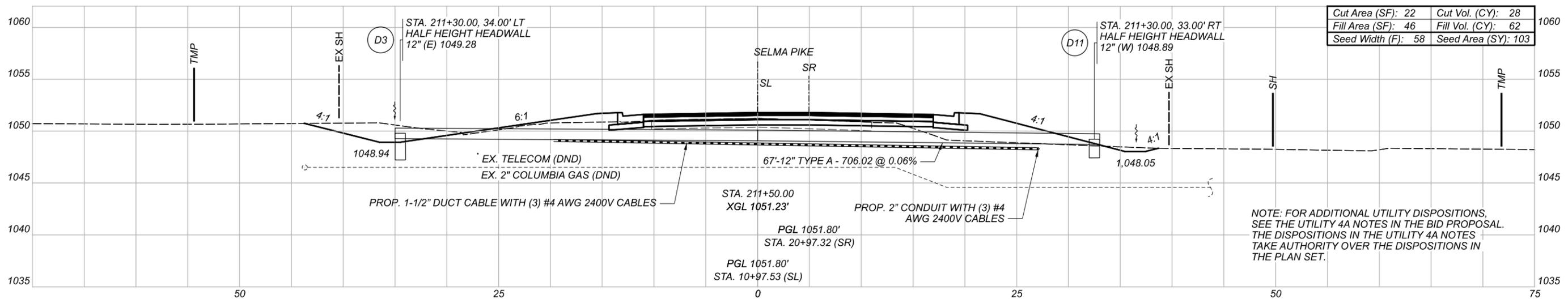
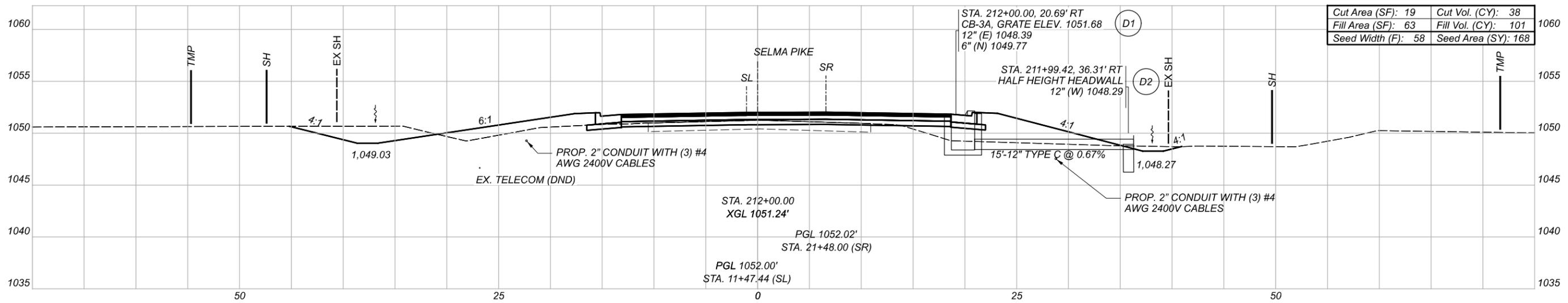
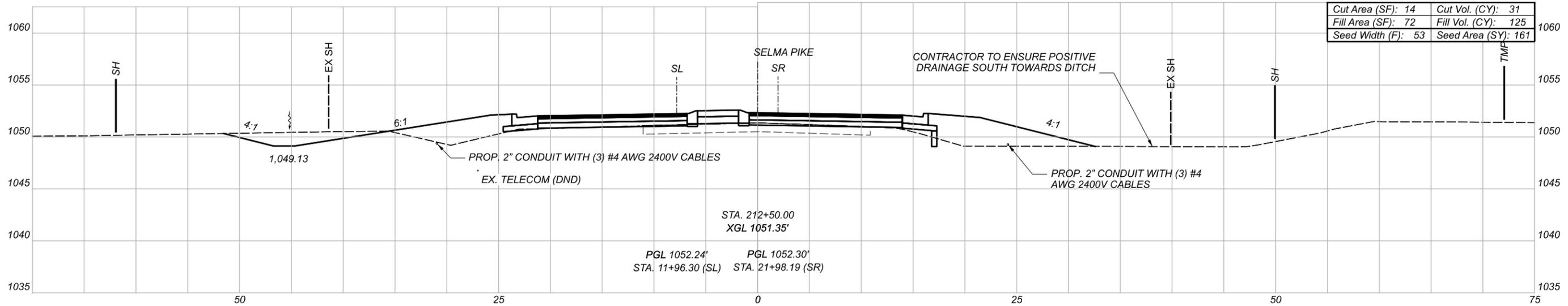
DESIGN AGENCY  
**B&N**  
burgessniple.com

DESIGNER  
NJL

REVIEWER  
ALR 10-1-21

PROJECT ID  
109451

SHEET TOTAL - CARRIED TO SHEET 68	SHEET TOTAL
Seeding 39	Cut 57
Fill 45	TOTAL 102



NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

CROSS SECTIONS - SELMA PIKE  
STA. 211+50.00 TO STA. 212+50.00

DESIGN AGENCY  
**B&N**  
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NJL

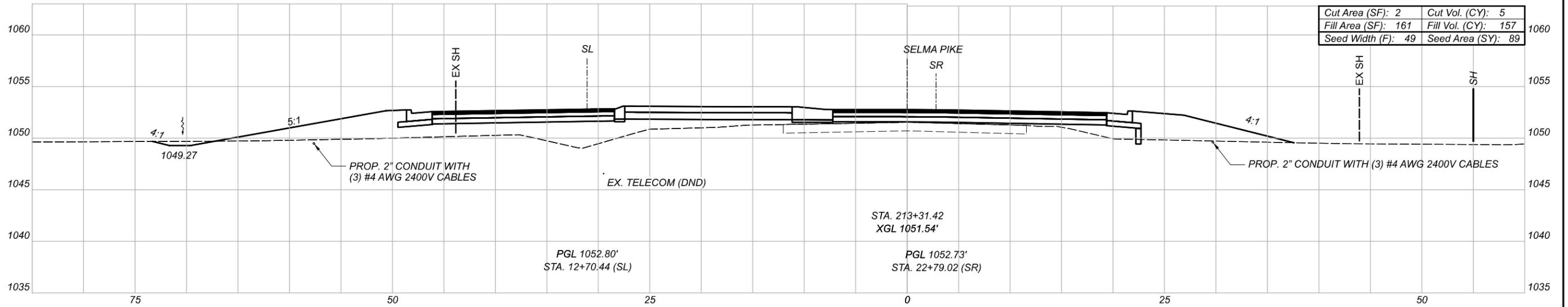
REVIEWER  
ALR 10-1-21

PROJECT ID  
109451

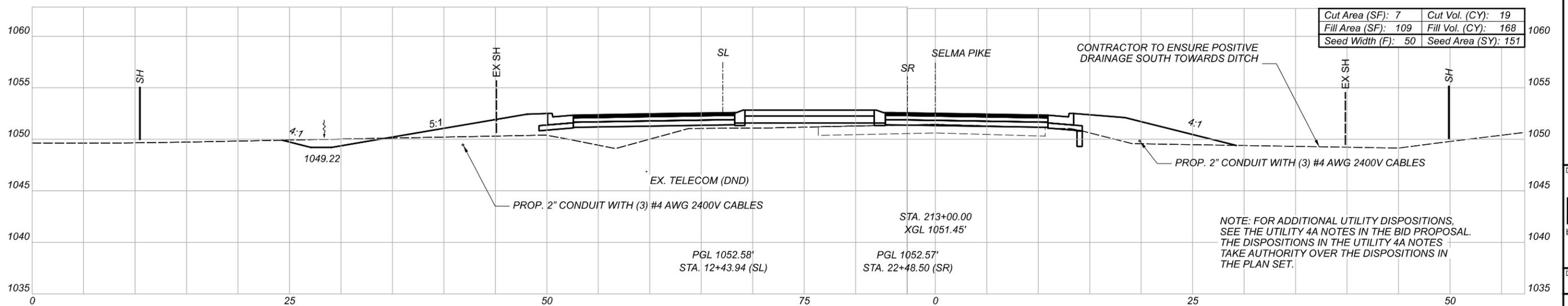
SHEET TOTAL - CARRIED TO SHEET 68	SHEET TOTAL
Seeding 432	Cut 97
Fill 288	TOTAL 46
	102

\*SEED WIDTH EXCLUDES ROUNDABOUT CENTER CIRCLE SEEDING AND MULCHING. SEE SHEET 13 FOR LANDSCAPING DETAILS.

CROSS SECTION "CC" EARTHWORK STA. 2+41.63 AND STA. 3+46.28 SEE SHEETS 67 AND 68			
Cut Area (SF): 1	Cut Vol. (CY): 40		
Fill Area (SF): 677	Fill Vol. (CY): 249		
Seed Width (F): 44'	Seed Area (SY): 91		



Cut Area (SF): 2	Cut Vol. (CY): 5
Fill Area (SF): 161	Fill Vol. (CY): 157
Seed Width (F): 49	Seed Area (SY): 89



Cut Area (SF): 7	Cut Vol. (CY): 19
Fill Area (SF): 109	Fill Vol. (CY): 168
Seed Width (F): 50	Seed Area (SY): 151

NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

SHEET TOTAL - CARRIED TO SHEET 68			
Seeding	Cut	Fill	SHEET TOTAL
331	64	574	47 102

CROSS SECTIONS - SELMA PIKE  
STA. 213+00.00 TO STA. 213+31.42

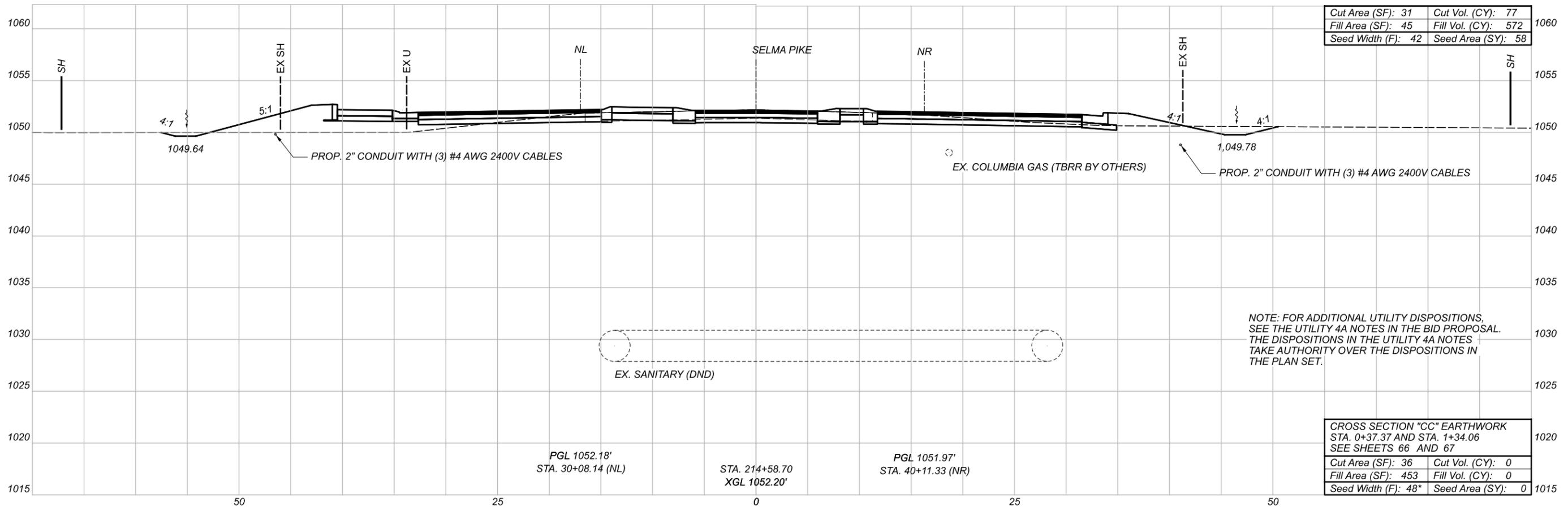
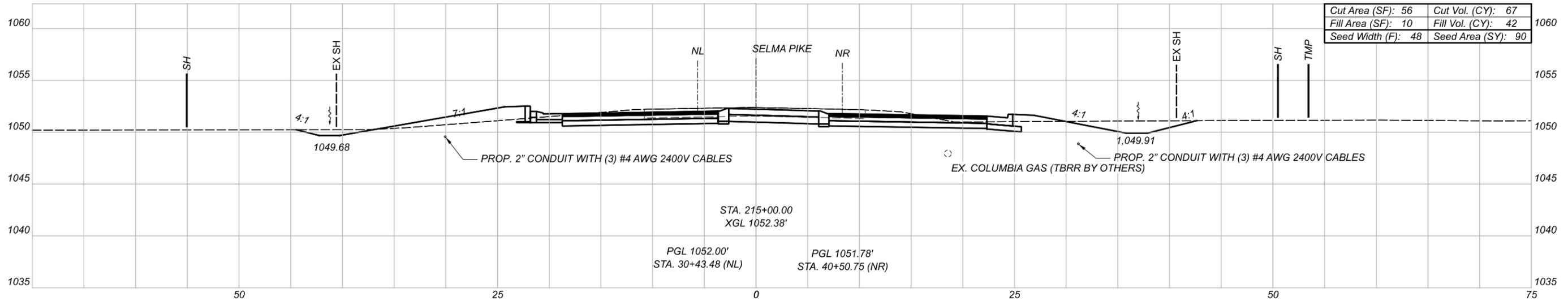
DESIGN AGENCY



DESIGNER  
NJL

REVIEWER  
ALR 10-1-21

PROJECT ID  
109451



NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

CROSS SECTION "CC" EARTHWORK STA. 0+37.37 AND STA. 1+34.06 SEE SHEETS 66 AND 67			
Cut Area (SF): 36	Cut Vol. (CY): 0	Fill Area (SF): 453	Fill Vol. (CY): 0
Seed Width (F): 48*	Seed Area (SY): 0		

SHEET TOTAL - CARRIED TO SHEET 68			SHEET TOTAL
Seeding	Cut	Fill	
148	144	614	48   102

\*SEED WIDTH EXCLUDES ROUNDABOUT CENTER CIRCLE SEEDING AND MULCHING. SEE SHEET 13 FOR LANDSCAPING DETAILS.

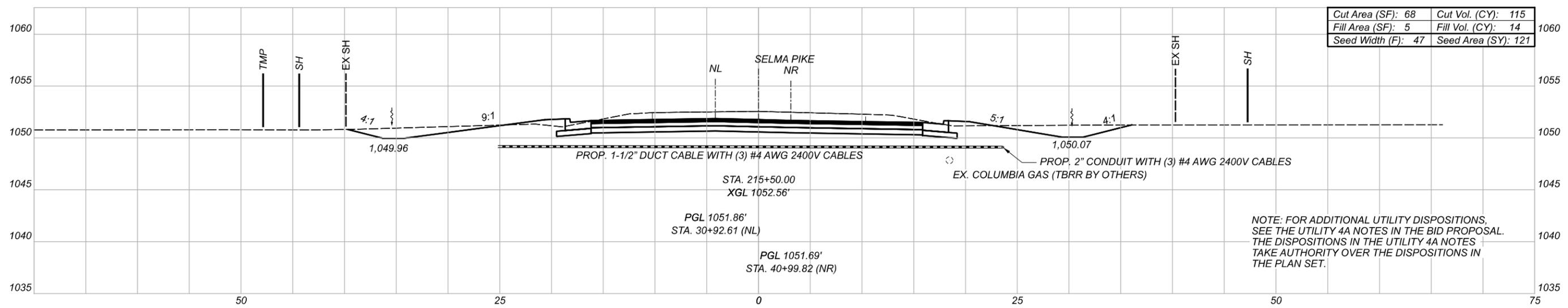
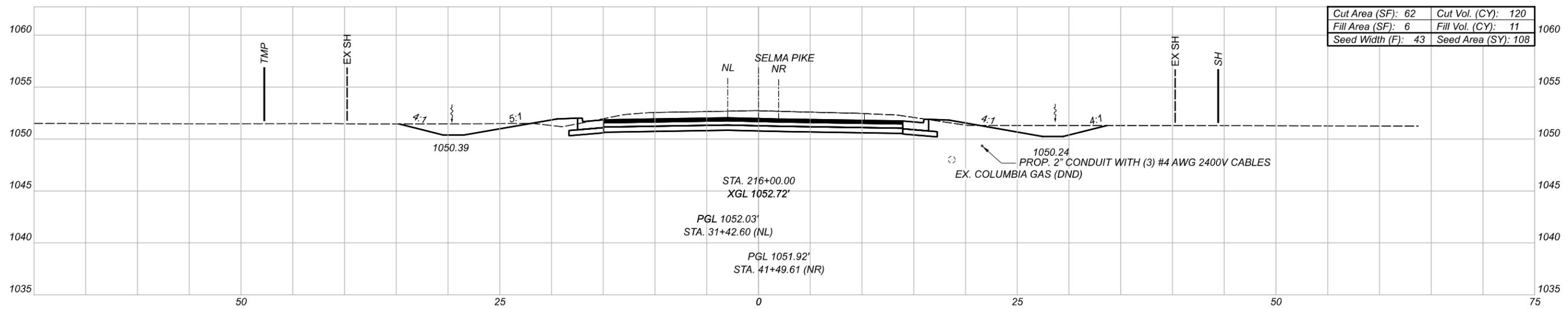
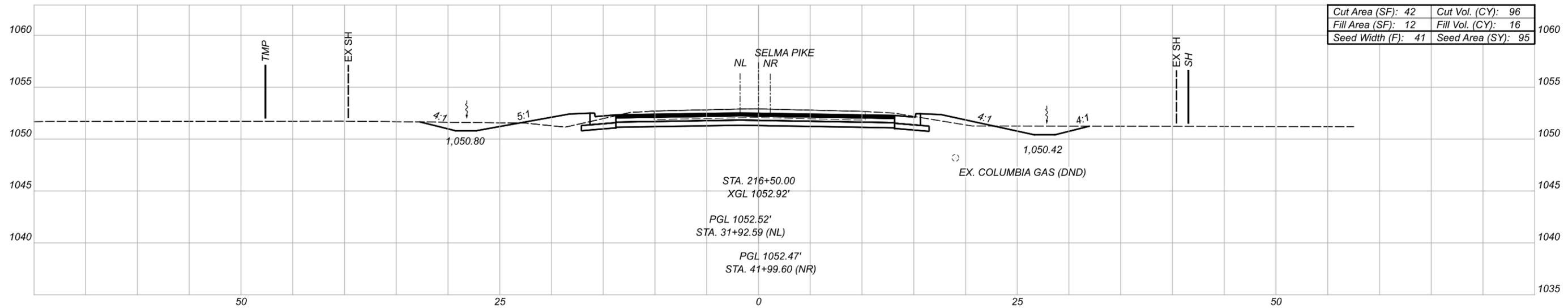
CROSS SECTIONS - SELMA PIKE  
STA. 214+58.70 TO STA. 215+00.00

DESIGN AGENCY  
**B&N**  
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DESIGNER  
NJL

REVIEWER  
ALR 10-1-21

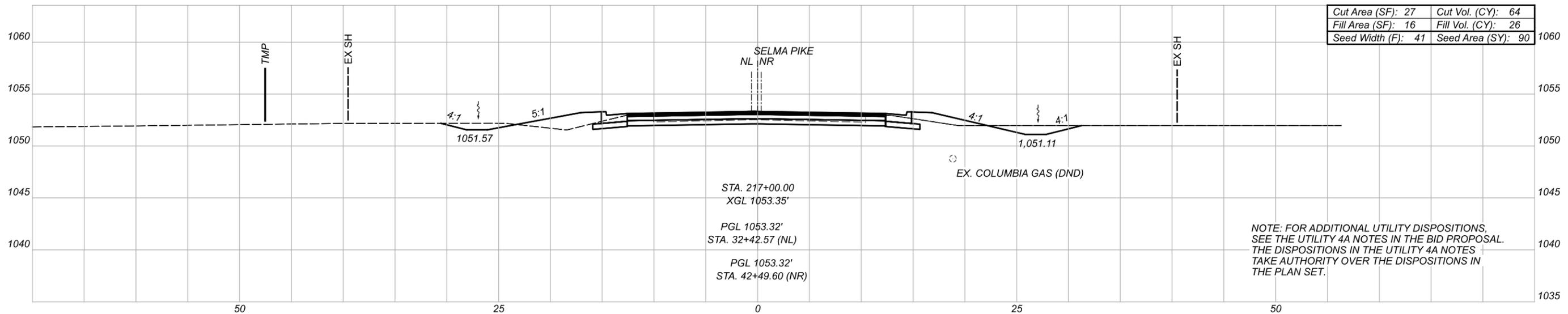
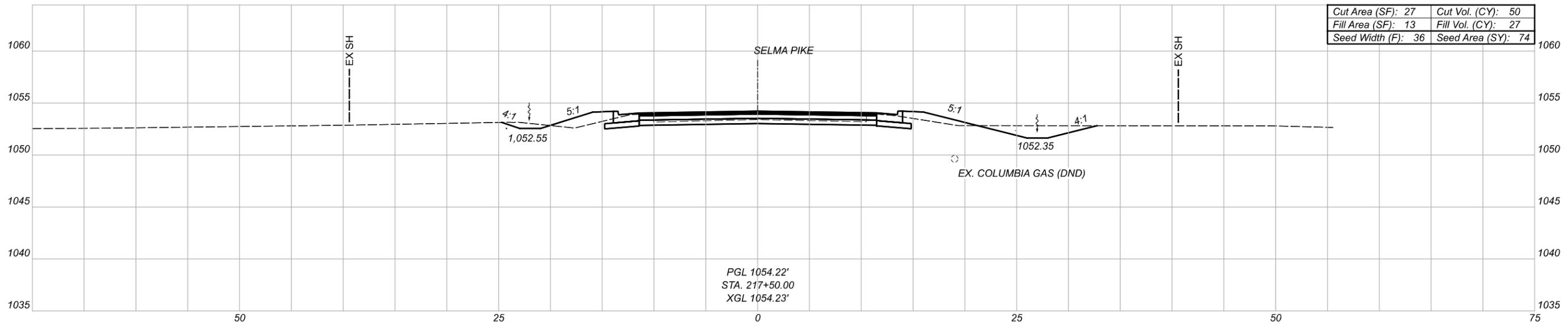
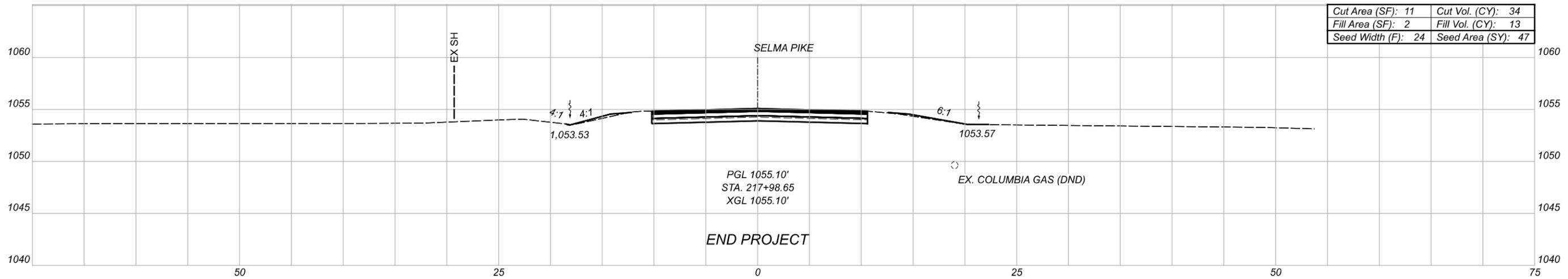
PROJECT ID  
109451



NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

CROSS SECTIONS - SELMA PIKE  
STA. 215+50.00 TO STA. 216+50.00

DESIGN AGENCY	<b>B&amp;N</b> burgessniple.com
DESIGNER	NJL
REVIEWER	ALR 10-1-21
PROJECT ID	109451
SHEET TOTAL - CARRIED TO SHEET 68	
Seeding	324
Cut	391
Fill	41
SHEET TOTAL	49
TOTAL	102



NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

CROSS SECTIONS - SELMA PIKE  
STA. 217+00.00 TO STA. 217+98.65

DESIGN AGENCY



DESIGNER

NJL

REVIEWER

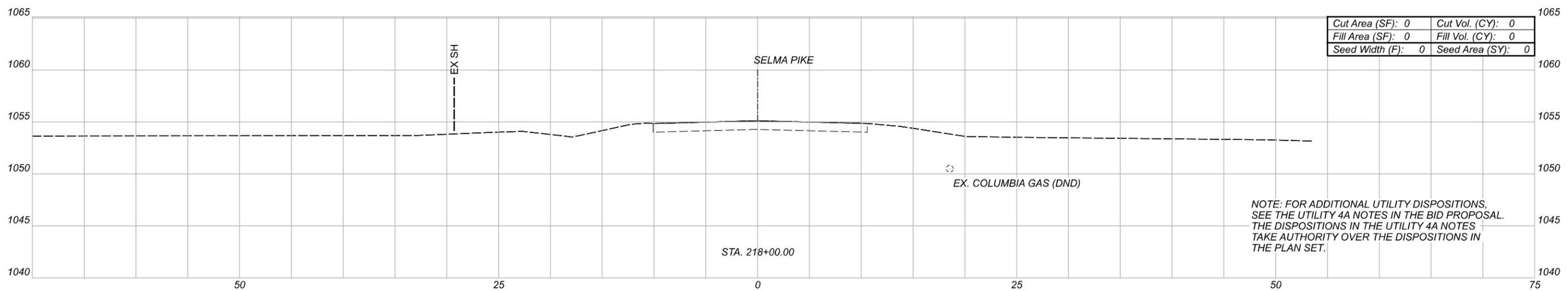
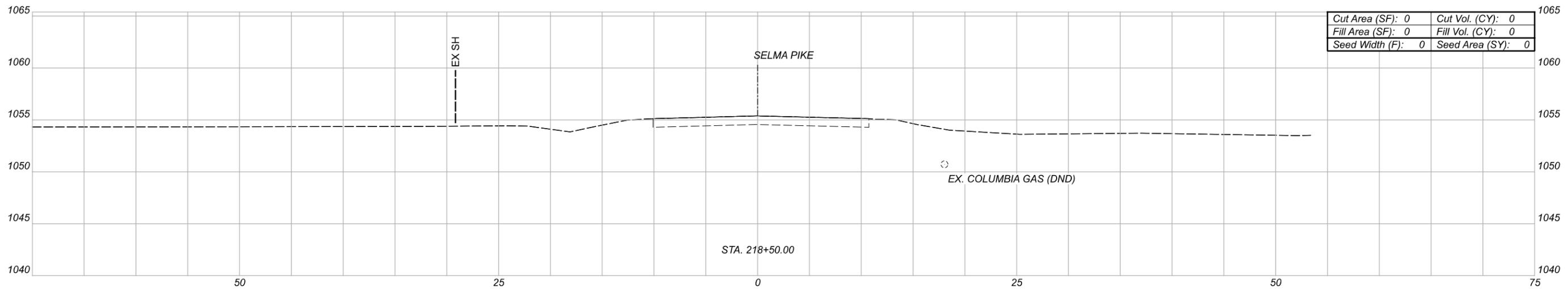
ALR 10-1-21

PROJECT ID

109451

SHEET TOTAL -  
CARRIED TO  
SHEET 68

Seeding	Cut	Fill	SHEET	TOTAL
241	148	66	50	102



NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

END WORK  
STA. 218+00.16

DESIGN AGENCY



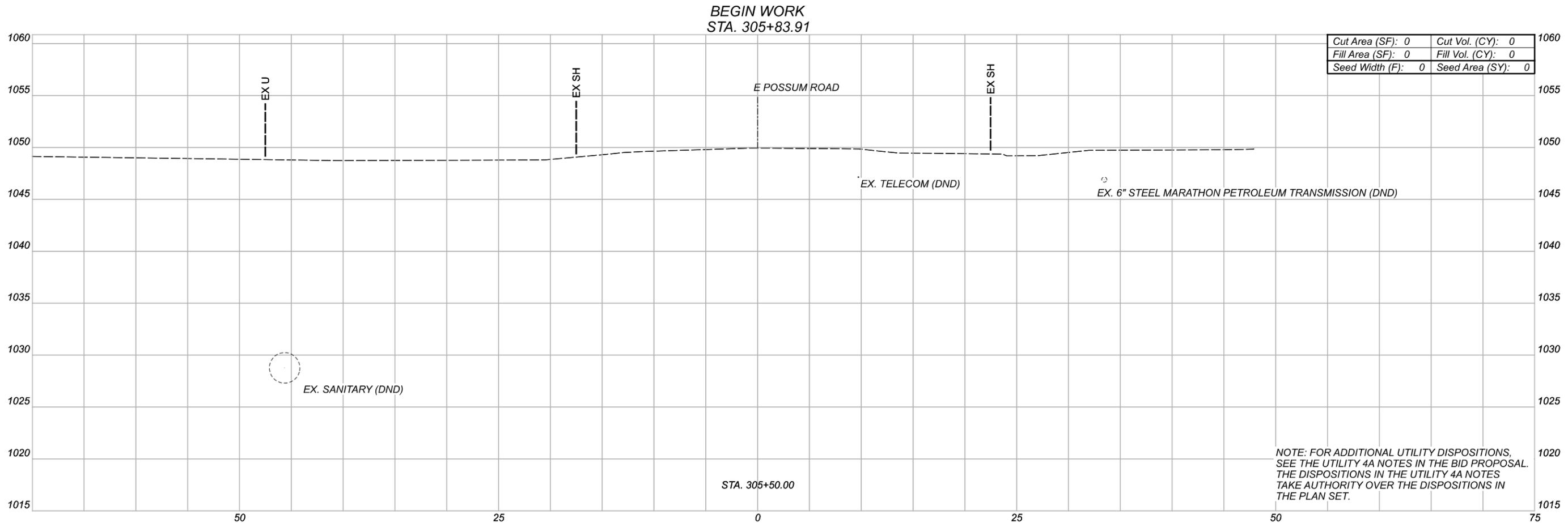
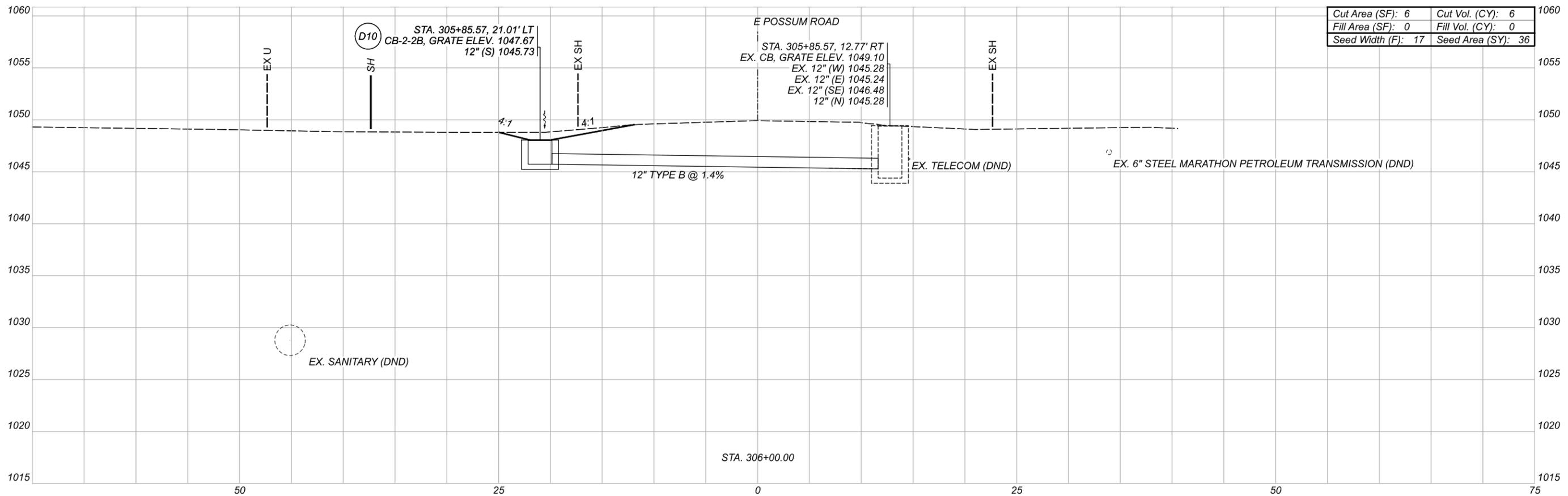
DESIGNER  
NJL

REVIEWER  
ALR 10-1-21

PROJECT ID  
109451

SHEET TOTAL -  
CARRIED TO  
SHEET 68

Seeding	Cut	Fill	SHEET	TOTAL
0	0	0	51	102



NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

CROSS SECTIONS - E POSSUM ROAD  
STA. 305+50.00 TO STA. 306+00.00

DESIGN AGENCY

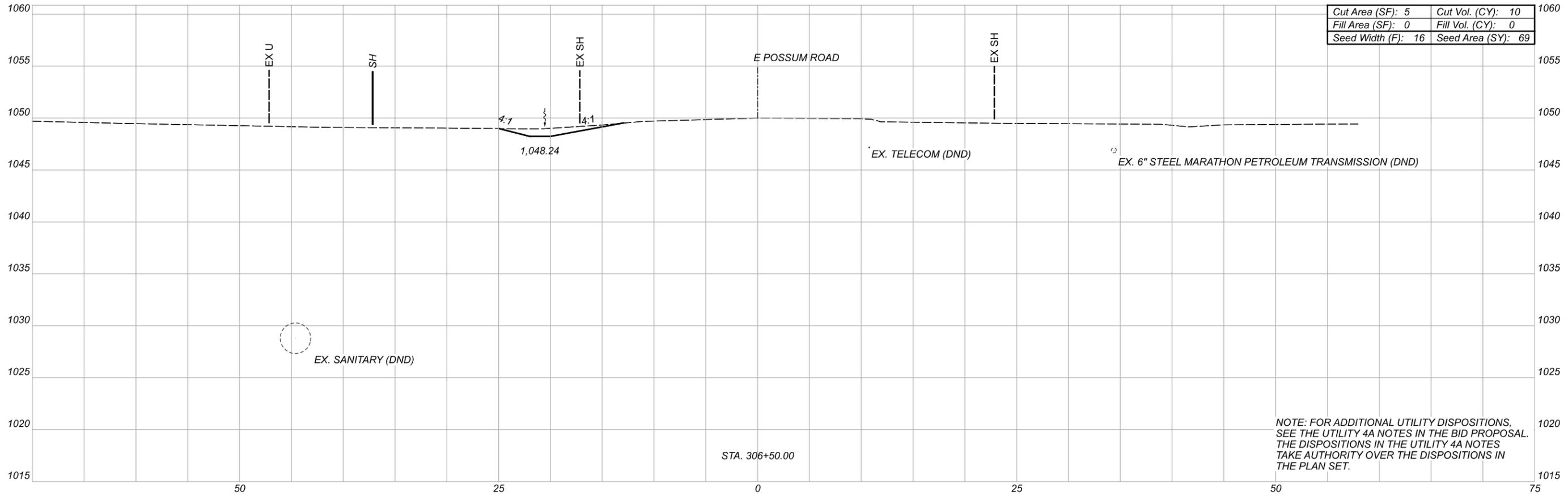
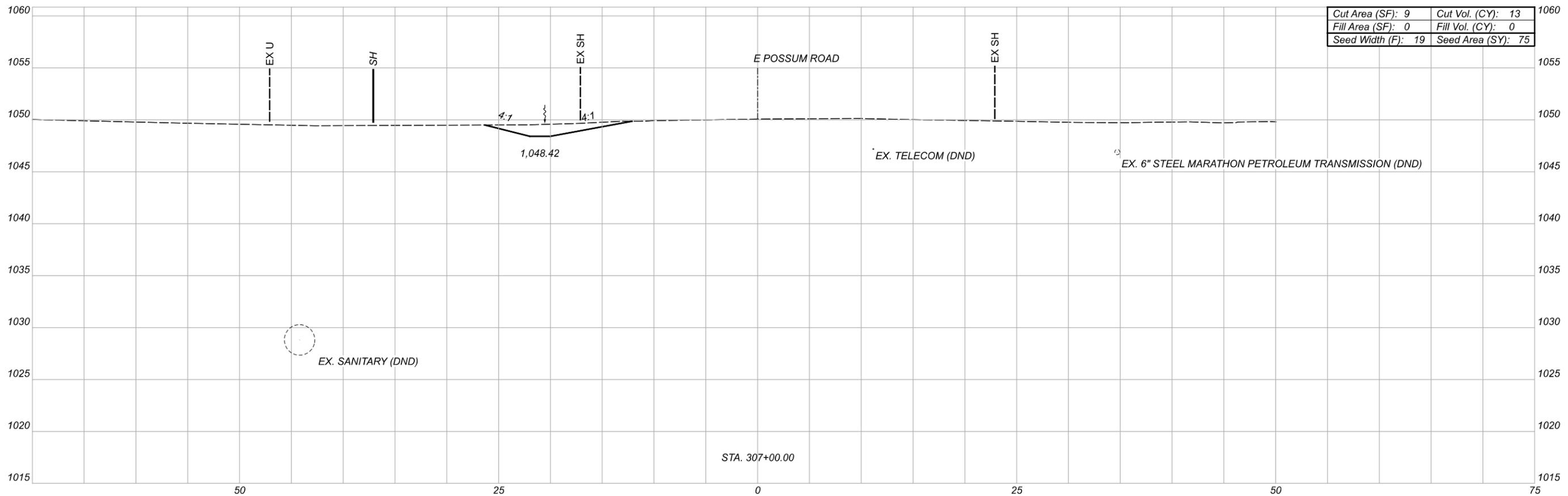


DESIGNER  
NJL

REVIEWER  
ALR 10-1-21

PROJECT ID  
109451

SHEET TOTAL - CARRIED TO SHEET 68			SHEET TOTAL
Seeding	Cut	Fill	
36	6	0	52   102



NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

CROSS SECTIONS - E POSSUM ROAD  
STA. 306+50.00 TO STA. 307+00.00

DESIGN AGENCY



DESIGNER

NJL

REVIEWER

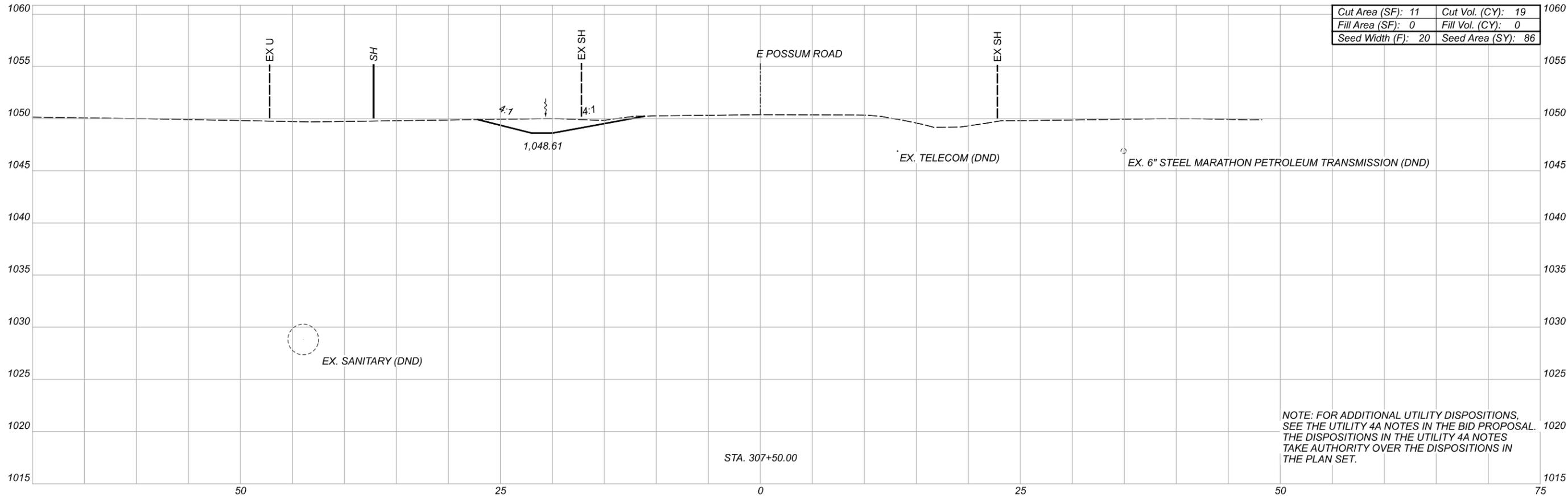
ALR 10-1-21

PROJECT ID

109451

SHEET TOTAL - CARRIED TO SHEET 68

Seeding	Cut	Fill	SHEET	TOTAL
144	23	0	53	102



Cut Area (SF): 11	Cut Vol. (CY): 19
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (F): 20	Seed Area (SY): 86

NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

DESIGN AGENCY



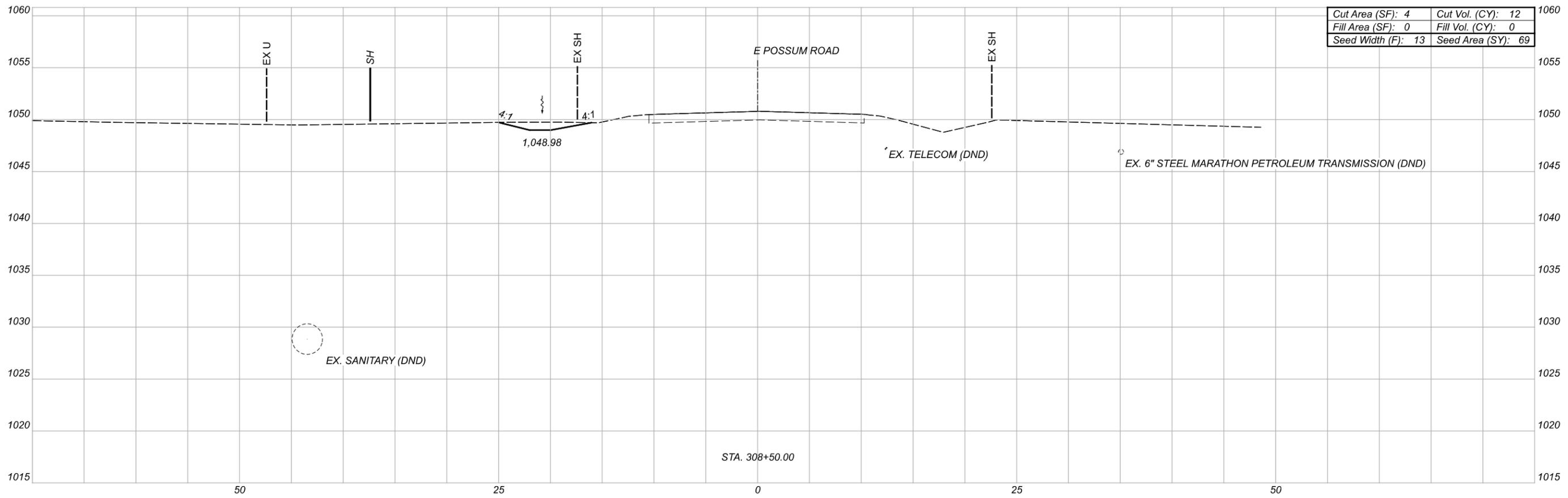
DESIGNER  
NJL

REVIEWER  
ALR 10-1-21

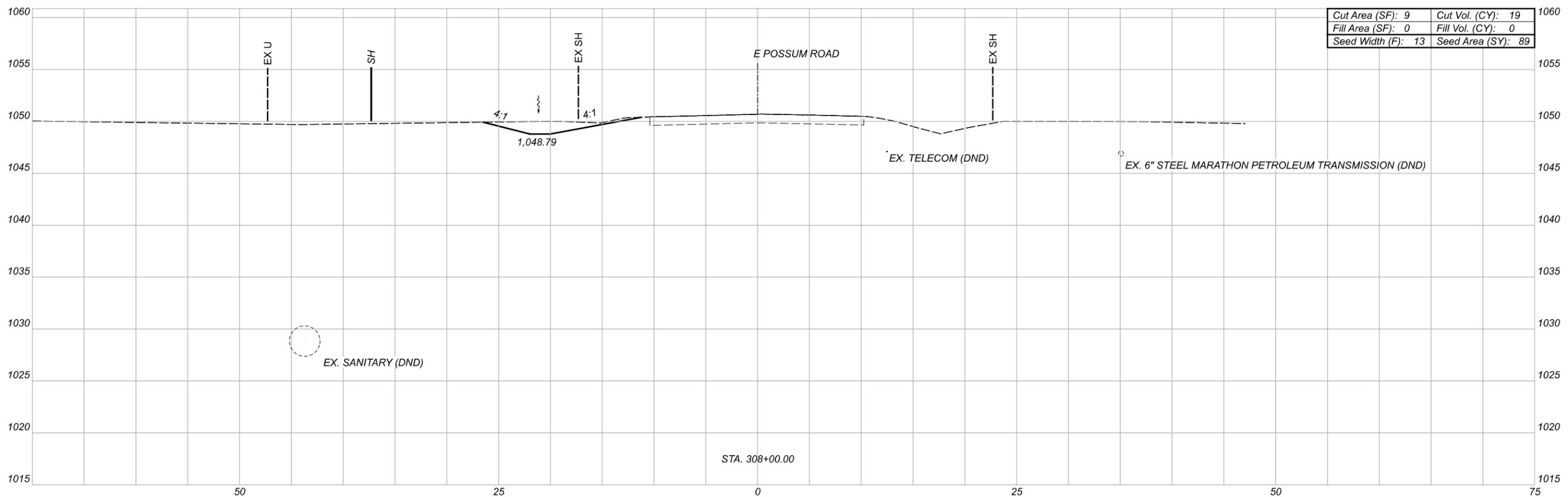
PROJECT ID  
109451

SHEET TOTAL -  
CARRIED TO  
SHEET 68

Seeding	Cut	Fill	SHEET	TOTAL
86	19	0	54	102



Cut Area (SF): 4	Cut Vol. (CY): 12
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (F): 13	Seed Area (SY): 69

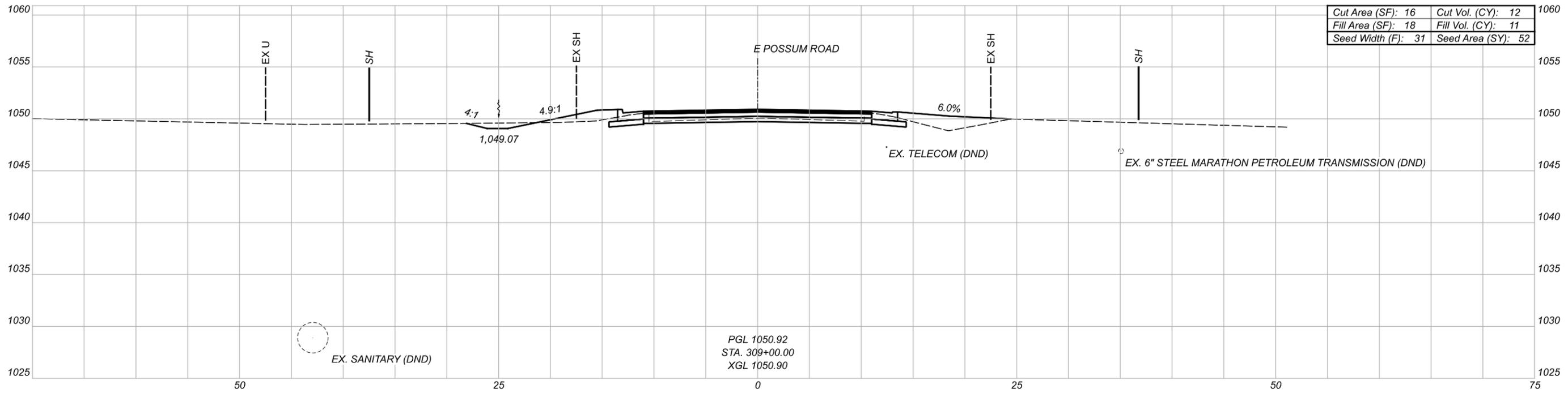


Cut Area (SF): 9	Cut Vol. (CY): 19
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (F): 13	Seed Area (SY): 89

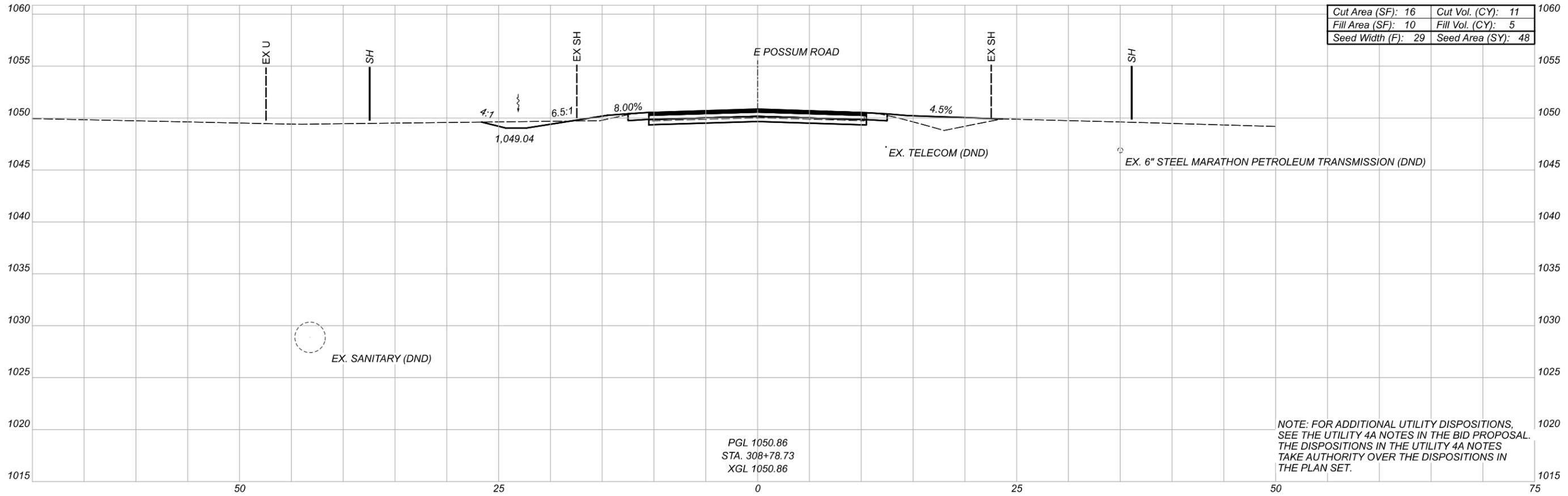
CROSS SECTIONS - E POSSUM ROAD  
STA. 308+00.00 TO STA. 308+50.00

DESIGN AGENCY  
**B&N**  
burgessniple.com  
DESIGNER  
NJL  
REVIEWER  
ALR 10-1-21

SHEET TOTAL - CARRIED TO SHEET 68			PROJECT ID 109451	
Seeding	Cut	Fill	SHEET	TOTAL
158	31	0	55	102



Cut Area (SF): 16	Cut Vol. (CY): 12
Fill Area (SF): 18	Fill Vol. (CY): 11
Seed Width (F): 31	Seed Area (SY): 52



Cut Area (SF): 16	Cut Vol. (CY): 11
Fill Area (SF): 10	Fill Vol. (CY): 5
Seed Width (F): 29	Seed Area (SY): 48

NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

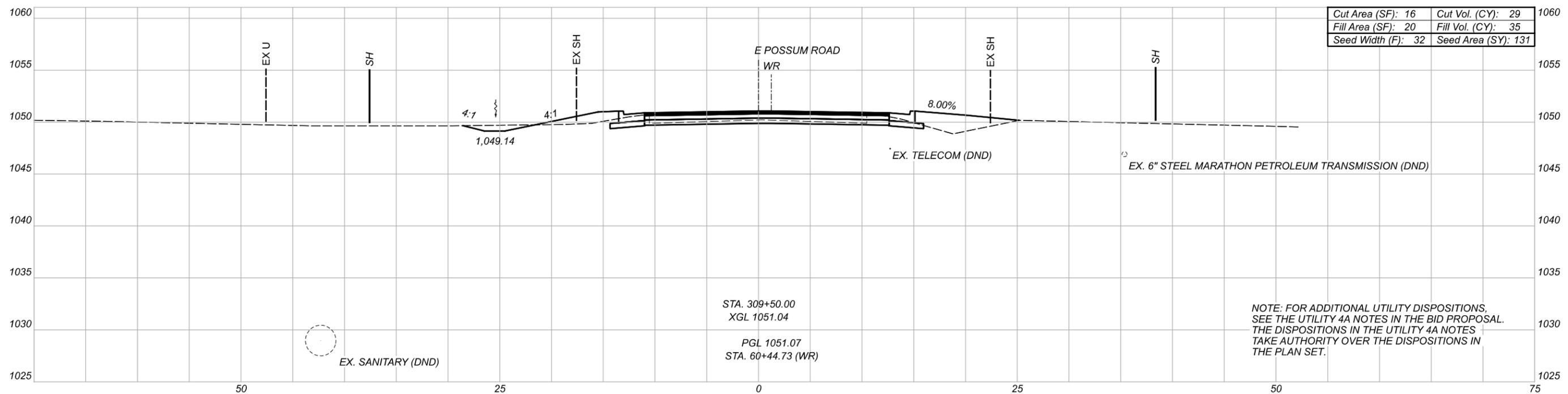
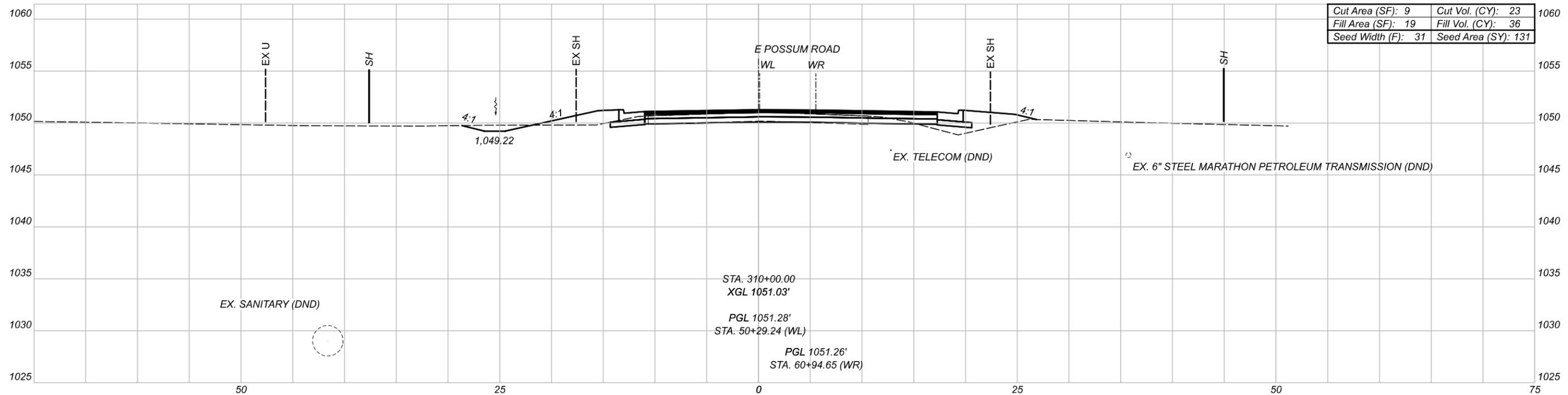
CROSS SECTIONS - E POSSUM ROAD  
STA. 308+78.73 TO STA. 309+00.00

DESIGN AGENCY  
**B&N**  
burgessniple.com

DESIGNER  
NJL

REVIEWER  
ALR 10-1-21

SHEET TOTAL - CARRIED TO SHEET 68			SHEET TOTAL
Seeding	Cut	Fill	
100	23	16	56   102



NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

CROSS SECTIONS - E POSSUM ROAD  
STA. 309+50.00 TO STA. 310+00.00

DESIGN AGENCY



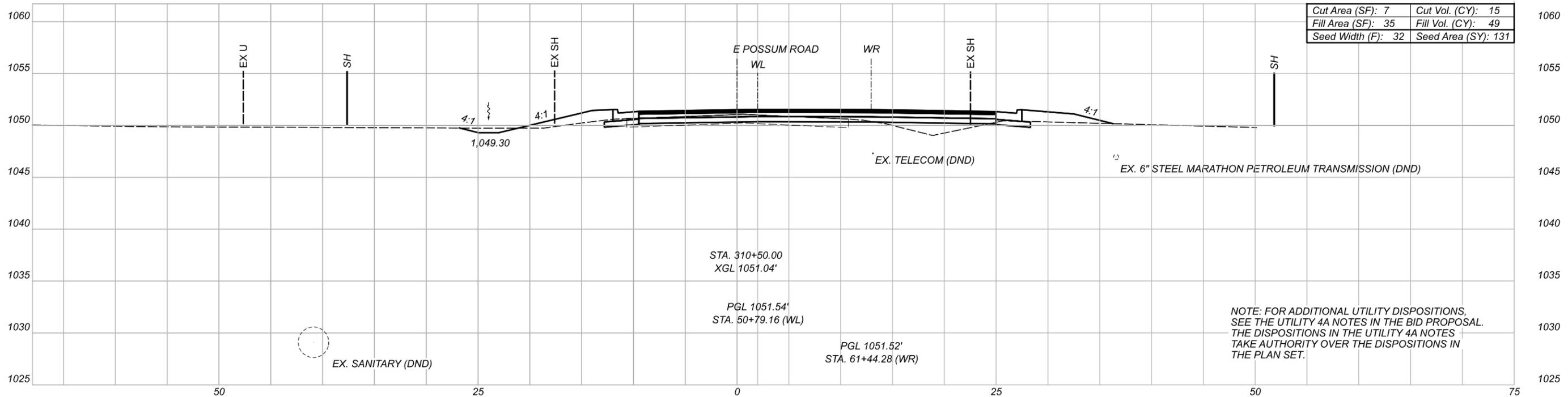
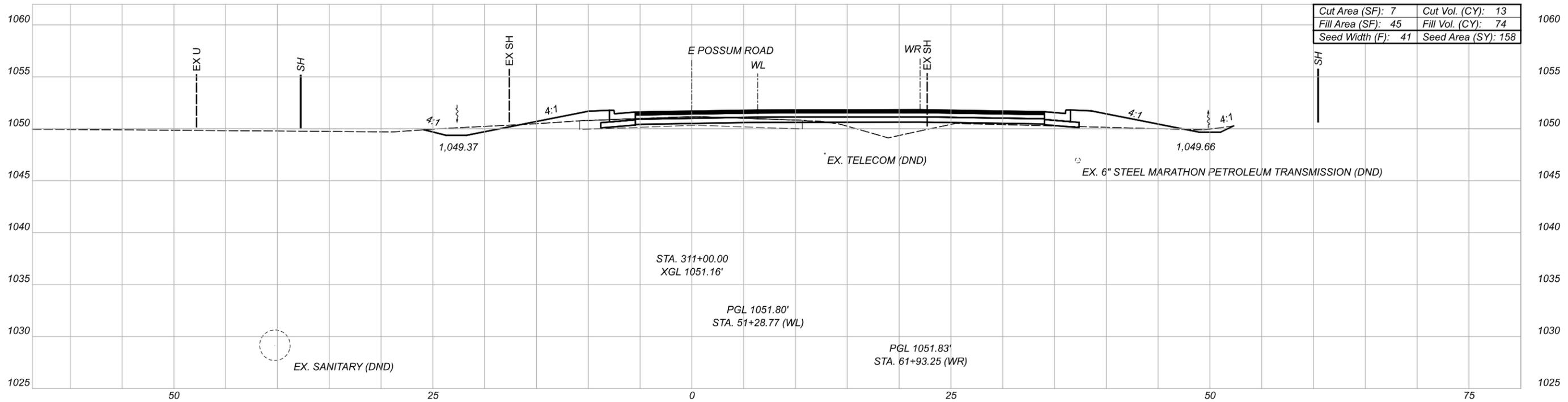
burgessniple.com

DESIGNER  
NJL

REVIEWER  
ALR 10-1-21

PROJECT ID  
109451

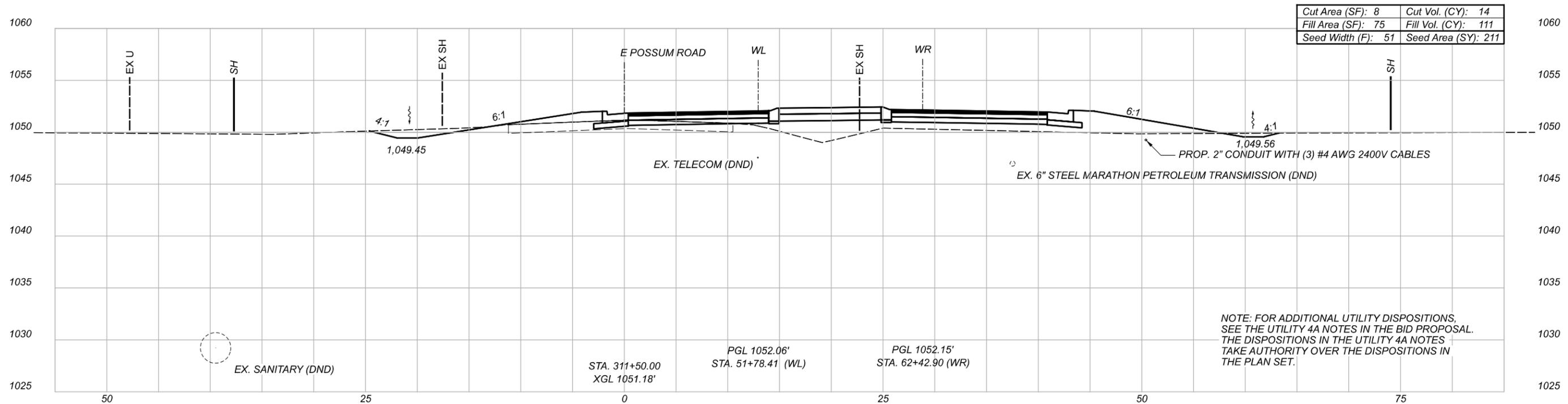
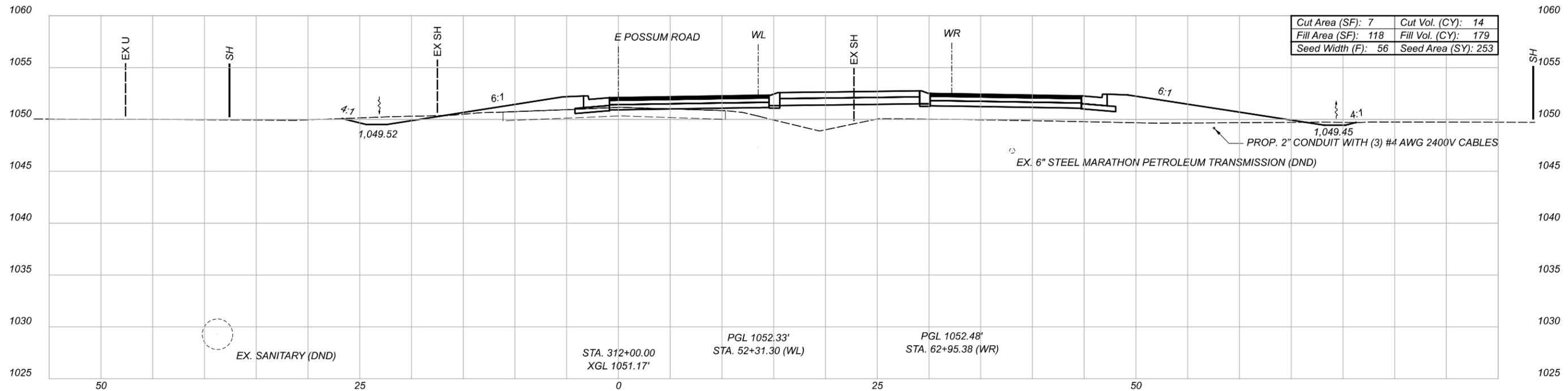
SHEET TOTAL - CARRIED TO SHEET 68	SHEET TOTAL
Seeding 262	Cut 52
Fill 71	TOTAL 57
	102



NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

CROSS SECTIONS - E POSSUM ROAD  
 STA. 309+50.00 TO STA. 311+00.00

DESIGN AGENCY	<b>B&amp;N</b> burgessniple.com
DESIGNER	NJL
REVIEWER	ALR 10-1-21
PROJECT ID	109451
SHEET TOTAL - CARRIED TO SHEET 68	
Seeding	289
Cut	28
Fill	123
SHEET TOTAL	58
TOTAL	102



CROSS SECTIONS - E POSSUM ROAD  
STA. 311+50.00 TO STA. 312+00.00

DESIGN AGENCY

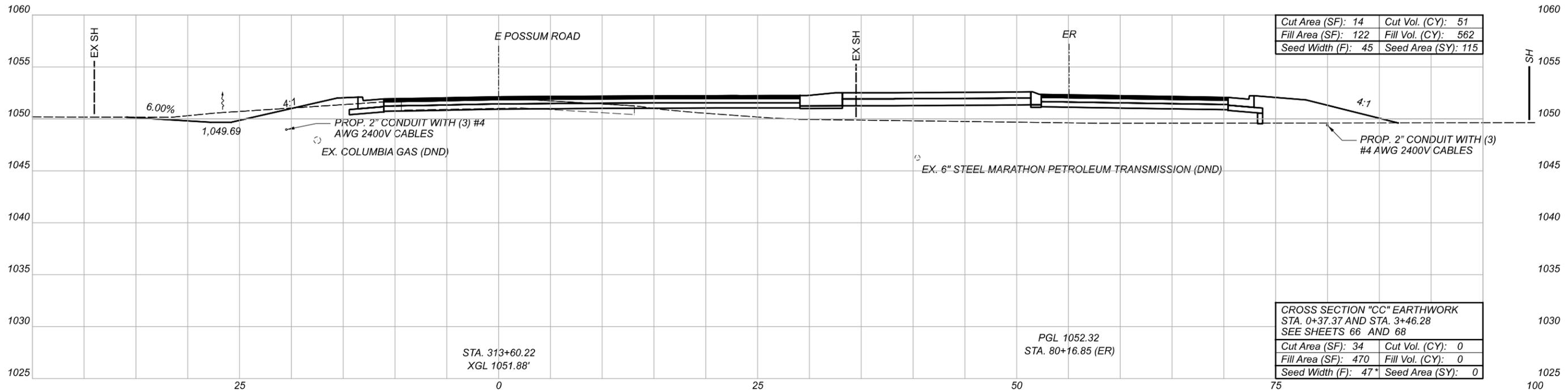


DESIGNER  
NJL

REVIEWER  
ALR 10-1-21

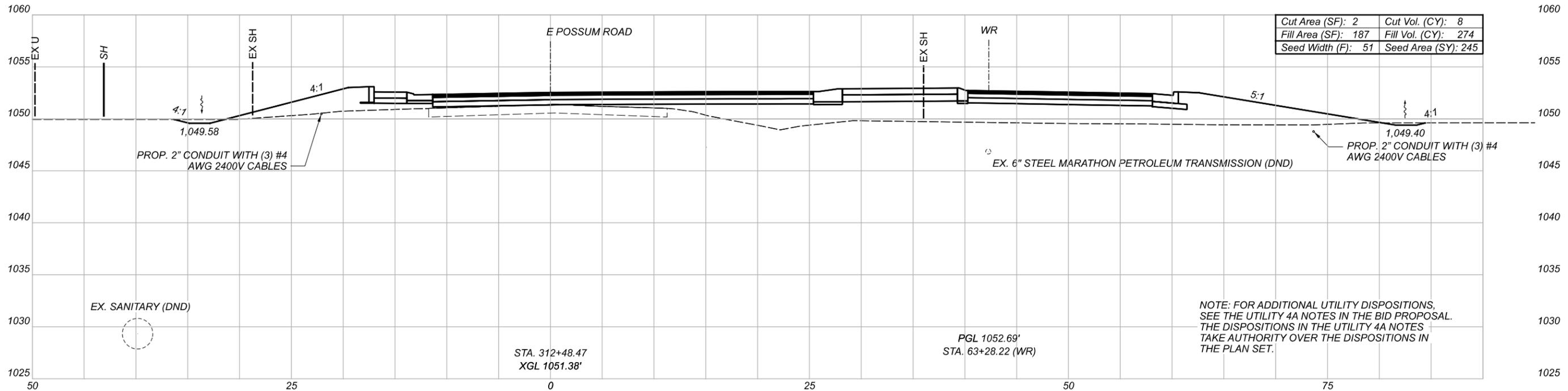
PROJECT ID  
109451

SHEET TOTAL - CARRIED TO SHEET 68			SHEET	TOTAL
Seeding	Cut	Fill	59	102
464	28	290		



\*SEED WIDTH EXCLUDES ROUNDABOUT CENTER CIRCLE SEEDING AND MULCHING. SEE SHEET 13 FOR LANDSCAPING DETAILS.

CROSS SECTION "CC" EARTHWORK STA. 1+34.06 AND STA. 2+41.63 SEE SHEET 66	
Cut Area (SF): 3	Cut Vol. (CY): 17
Fill Area (SF): 631	Fill Vol. (CY): 320
Seed Width (F): 44*	Seed Area (SY): 133



NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

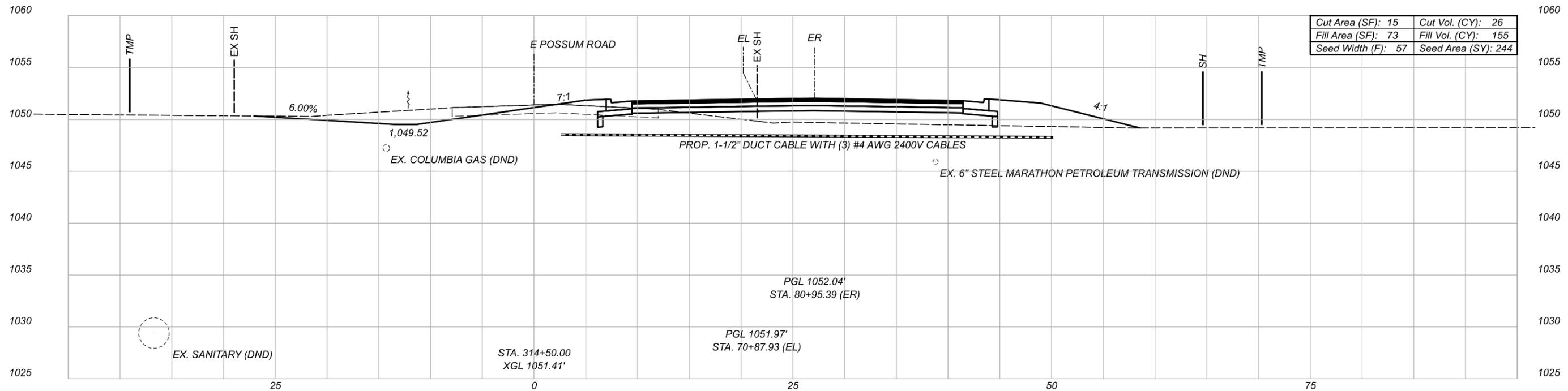
CROSS SECTIONS - E POSSUM ROAD  
STA. 312+48.47 TO STA. 313+60.22

DESIGN AGENCY  
**B&N**  
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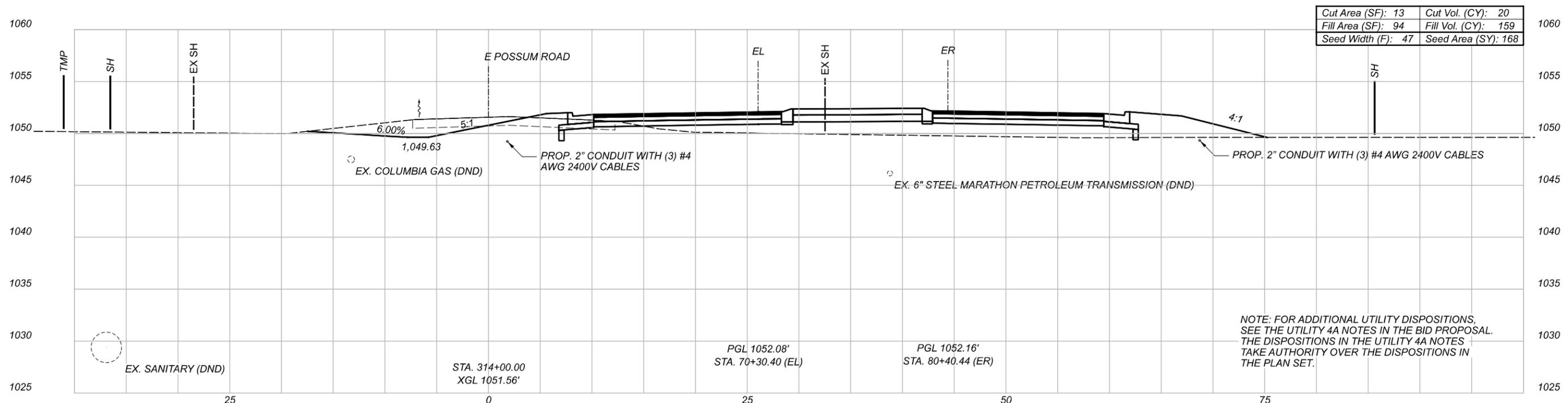
DESIGNER  
NJL

REVIEWER  
ALR 10-1-21

SHEET TOTAL - CARRIED TO SHEET 68			SHEET TOTAL
Seeding	Cut	Fill	
493	76	1156	102



Cut Area (SF): 15	Cut Vol. (CY): 26
Fill Area (SF): 73	Fill Vol. (CY): 155
Seed Width (F): 57	Seed Area (SY): 244



Cut Area (SF): 13	Cut Vol. (CY): 20
Fill Area (SF): 94	Fill Vol. (CY): 159
Seed Width (F): 47	Seed Area (SY): 168

NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

CROSS SECTIONS - E POSSUM ROAD  
STA. 314+00.00 TO STA. 314+50.00

DESIGN AGENCY

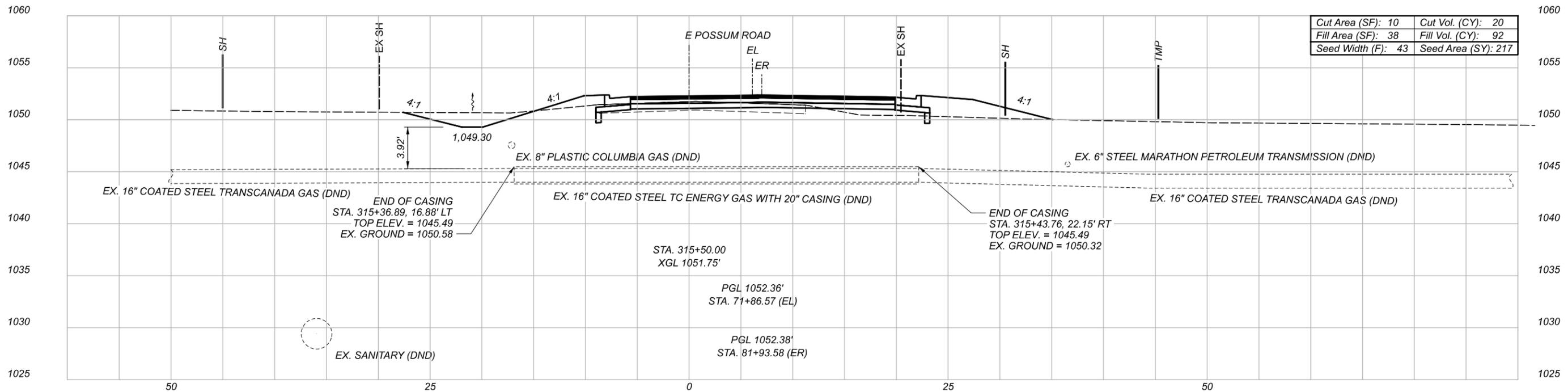


DESIGNER  
NJL

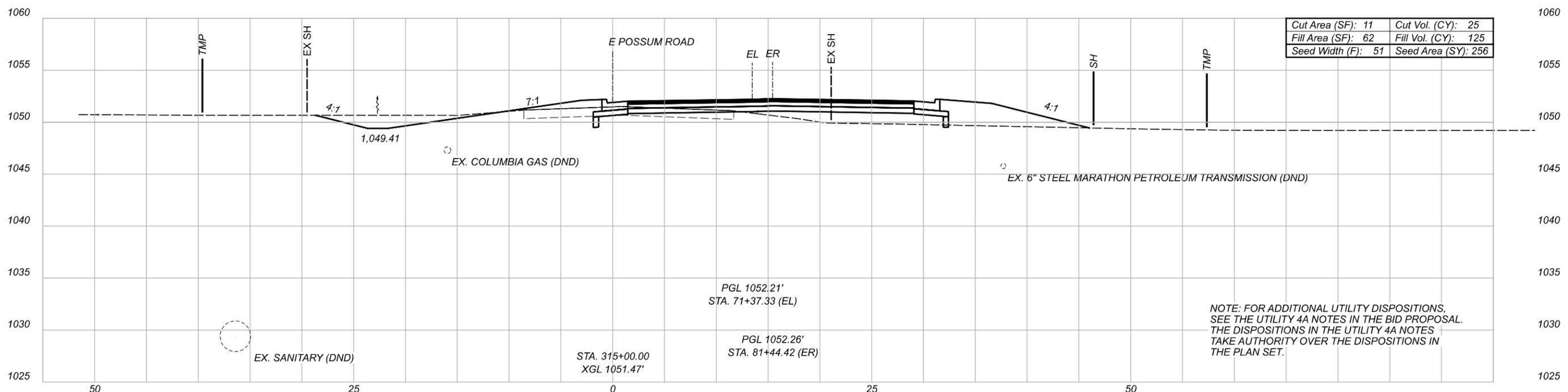
REVIEWER  
ALR 10-1-21

PROJECT ID  
109451

SHEET TOTAL - CARRIED TO SHEET 68			SHEET TOTAL
Seeding	Cut	Fill	
412	46	314	61   102



Cut Area (SF): 10	Cut Vol. (CY): 20
Fill Area (SF): 38	Fill Vol. (CY): 92
Seed Width (F): 43	Seed Area (SY): 217



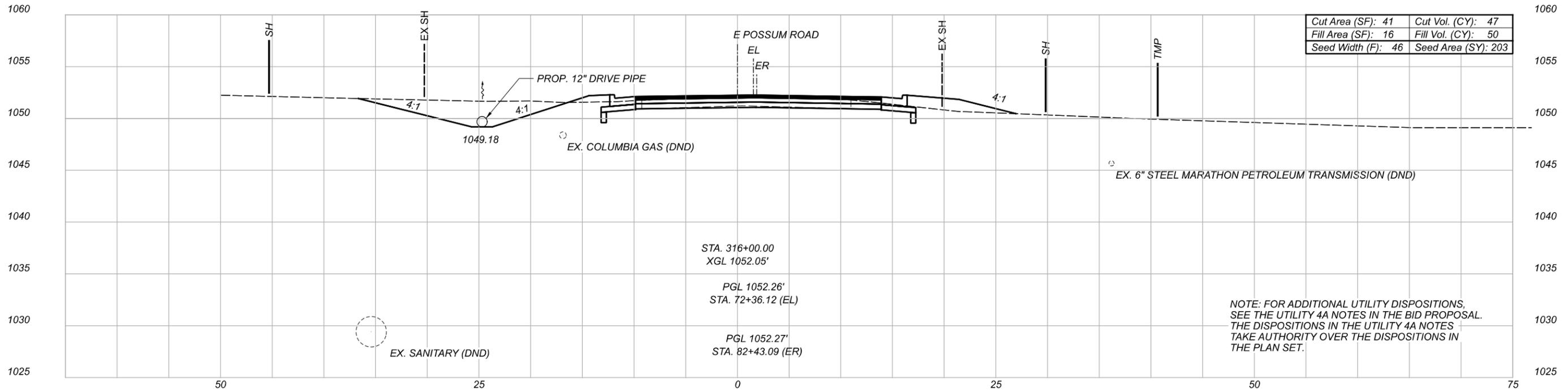
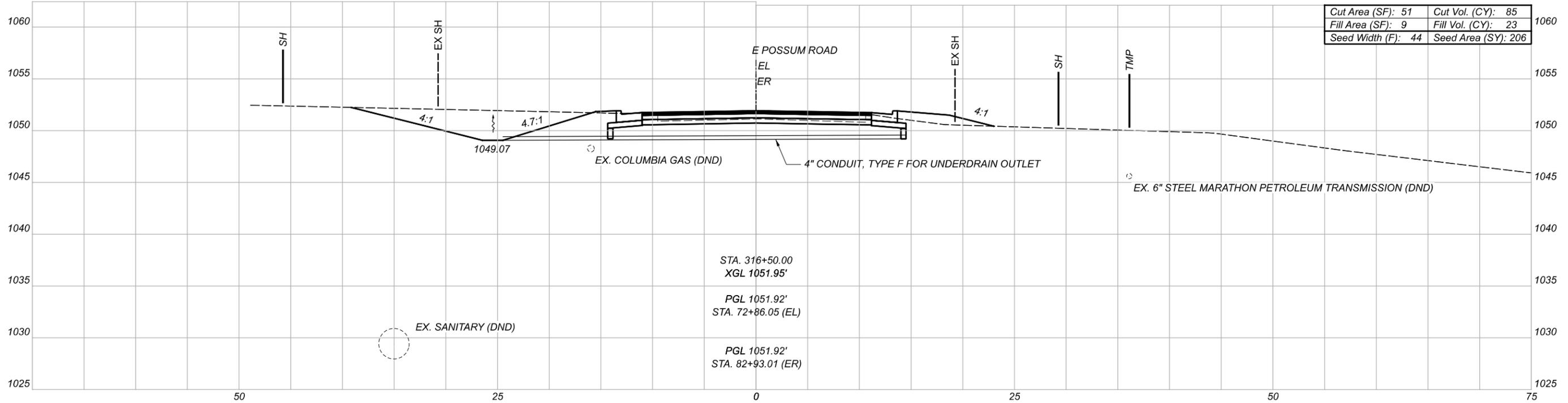
Cut Area (SF): 11	Cut Vol. (CY): 25
Fill Area (SF): 62	Fill Vol. (CY): 125
Seed Width (F): 51	Seed Area (SY): 256

NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

CROSS SECTIONS - E POSSUM ROAD  
STA. 315+00.00 TO STA. 315+50.00

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NJL  
REVIEWER  
ALR 10-1-21

SHEET TOTAL - CARRIED TO SHEET 68			PROJECT ID 109451	
Seeding	Cut	Fill	SHEET 62	TOTAL 102
473	45	217		



NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

CROSS SECTIONS - E POSSUM ROAD  
 STA. 316+00.00 TO STA. 316+50.00

DESIGN AGENCY



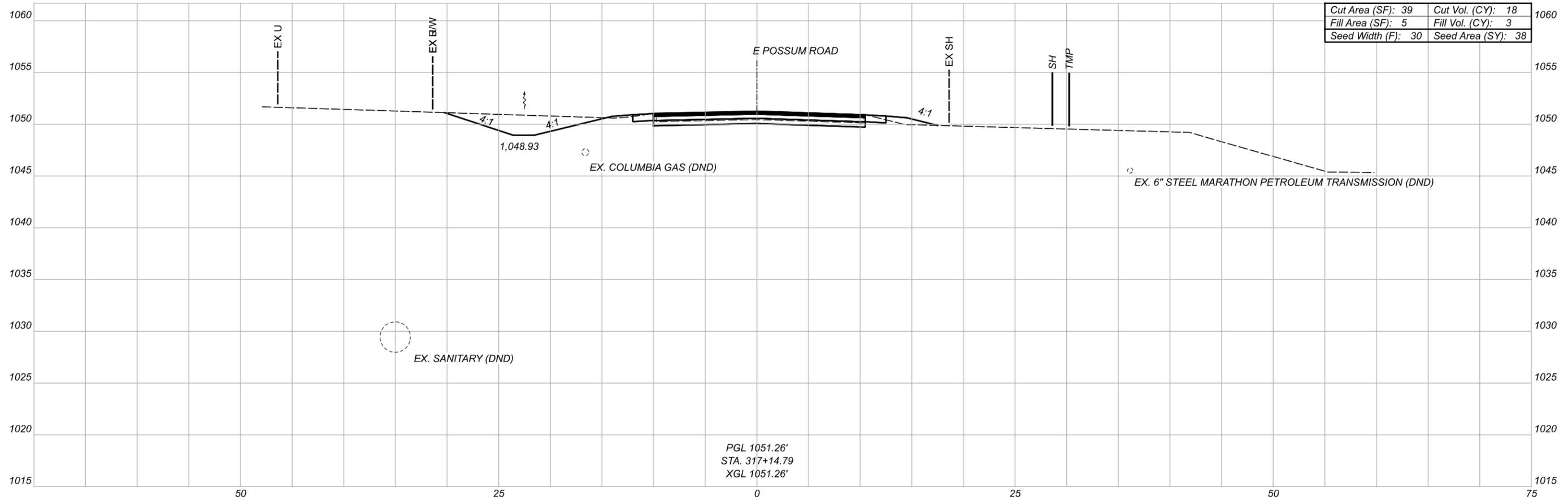
DESIGNER  
 NJL

REVIEWER  
 ALR 10-1-21

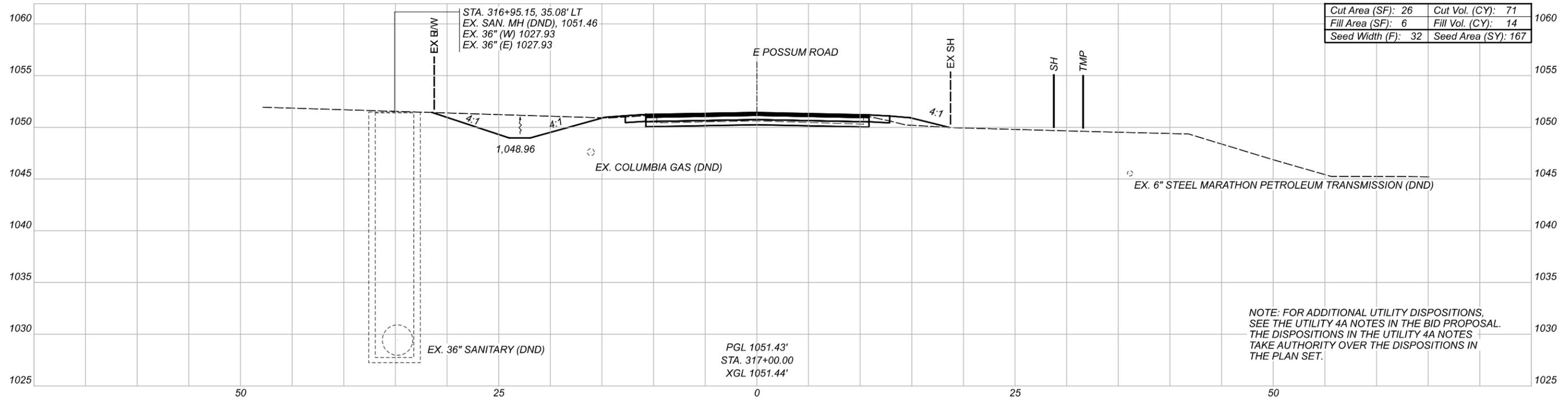
PROJECT ID  
 109451

SHEET TOTAL -  
 CARRIED TO  
 SHEET 68

Seeding	Cut	Fill	SHEET	TOTAL
409	132	73	63	102



Cut Area (SF): 39	Cut Vol. (CY): 18
Fill Area (SF): 5	Fill Vol. (CY): 3
Seed Width (F): 30	Seed Area (SY): 38



Cut Area (SF): 26	Cut Vol. (CY): 71
Fill Area (SF): 6	Fill Vol. (CY): 14
Seed Width (F): 32	Seed Area (SY): 167

NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

CROSS SECTIONS - E POSSUM ROAD  
STA. 317+00.00 TO STA. 317+14.79

DESIGN AGENCY



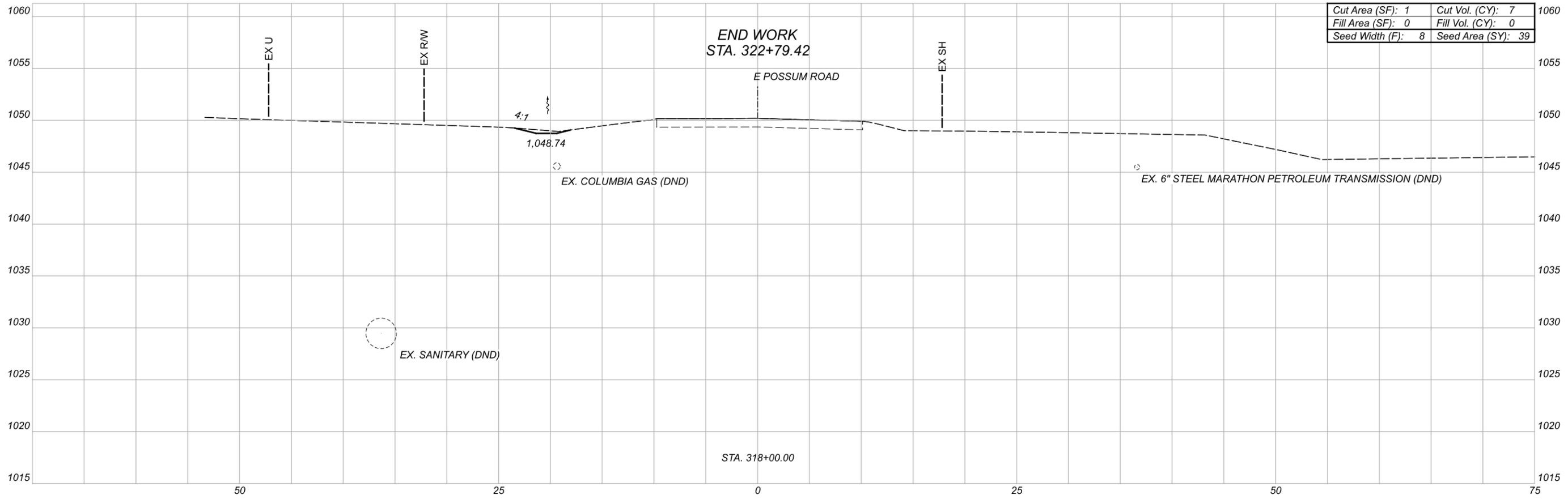
DESIGNER  
NJL

REVIEWER  
ALR 10-1-21

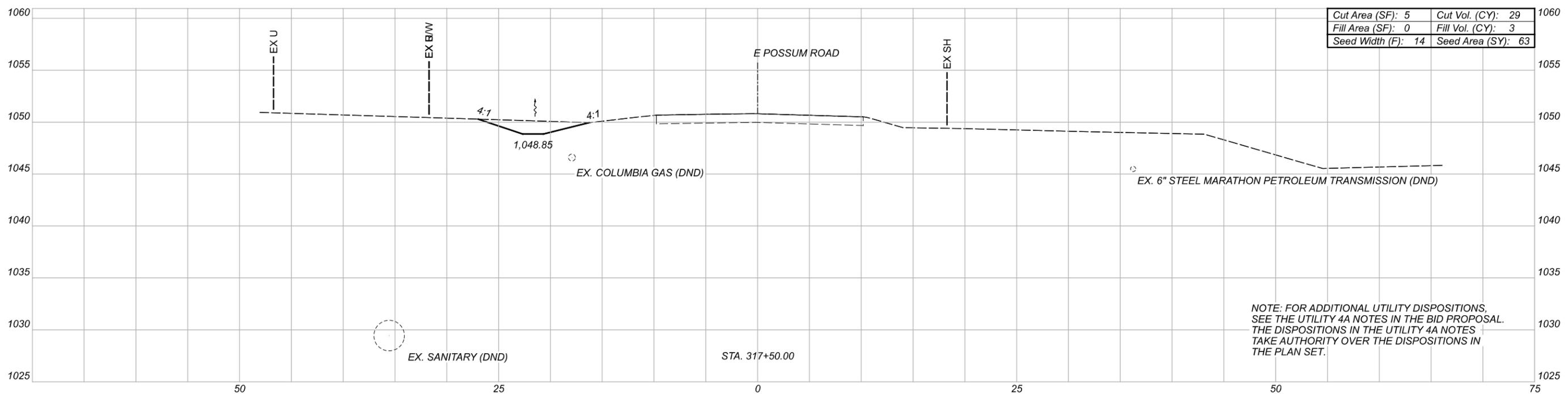
PROJECT ID  
109451

SHEET TOTAL -  
CARRIED TO  
SHEET 68

Seeding	Cut	Fill	SHEET	TOTAL
205	89	17	64	102



Cut Area (SF): 1	Cut Vol. (CY): 7
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (F): 8	Seed Area (SY): 39



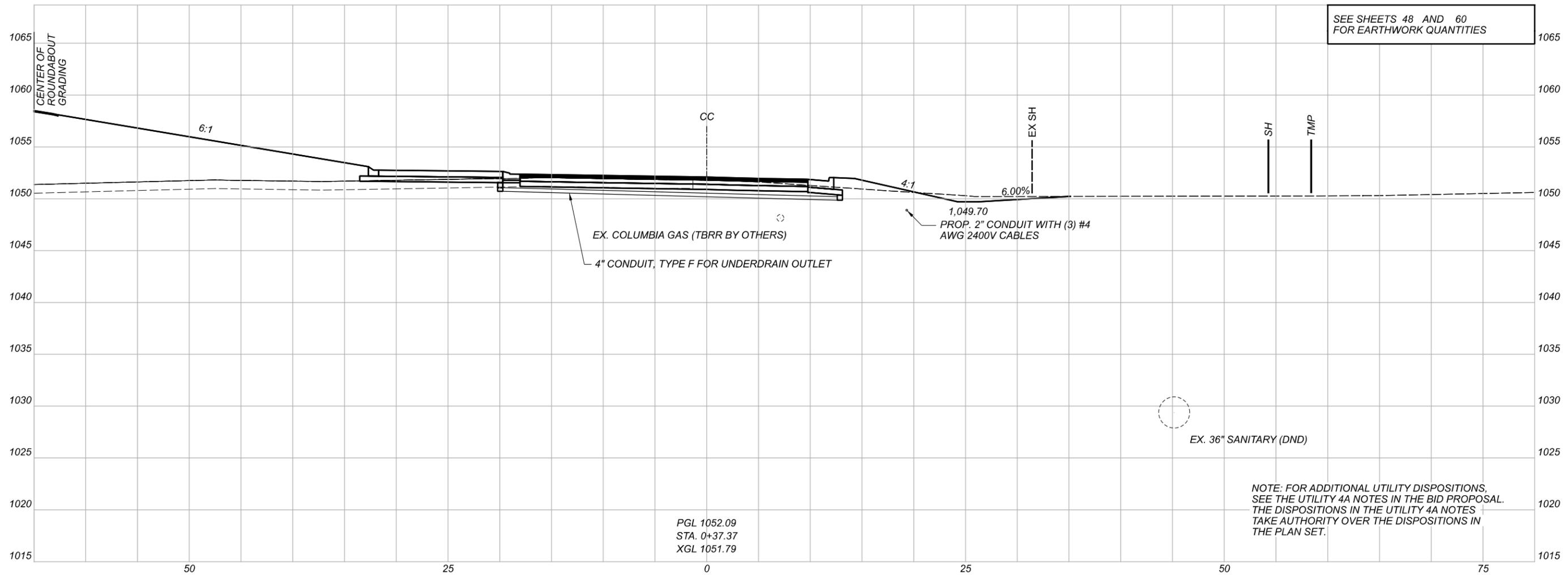
Cut Area (SF): 5	Cut Vol. (CY): 29
Fill Area (SF): 0	Fill Vol. (CY): 3
Seed Width (F): 14	Seed Area (SY): 63

NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS, SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL. THE DISPOSITIONS IN THE UTILITY 4A NOTES TAKE AUTHORITY OVER THE DISPOSITIONS IN THE PLAN SET.

CROSS SECTIONS - E POSSUM ROAD  
STA. 317+50.00 TO STA. 318+00.00

DESIGN AGENCY  
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DESIGNER  
NJL  
REVIEWER  
ALR 10-1-21

SHEET TOTAL - CARRIED TO SHEET 68			SHEET	TOTAL
Seeding	Cut	Fill	65	102
102	36	3		



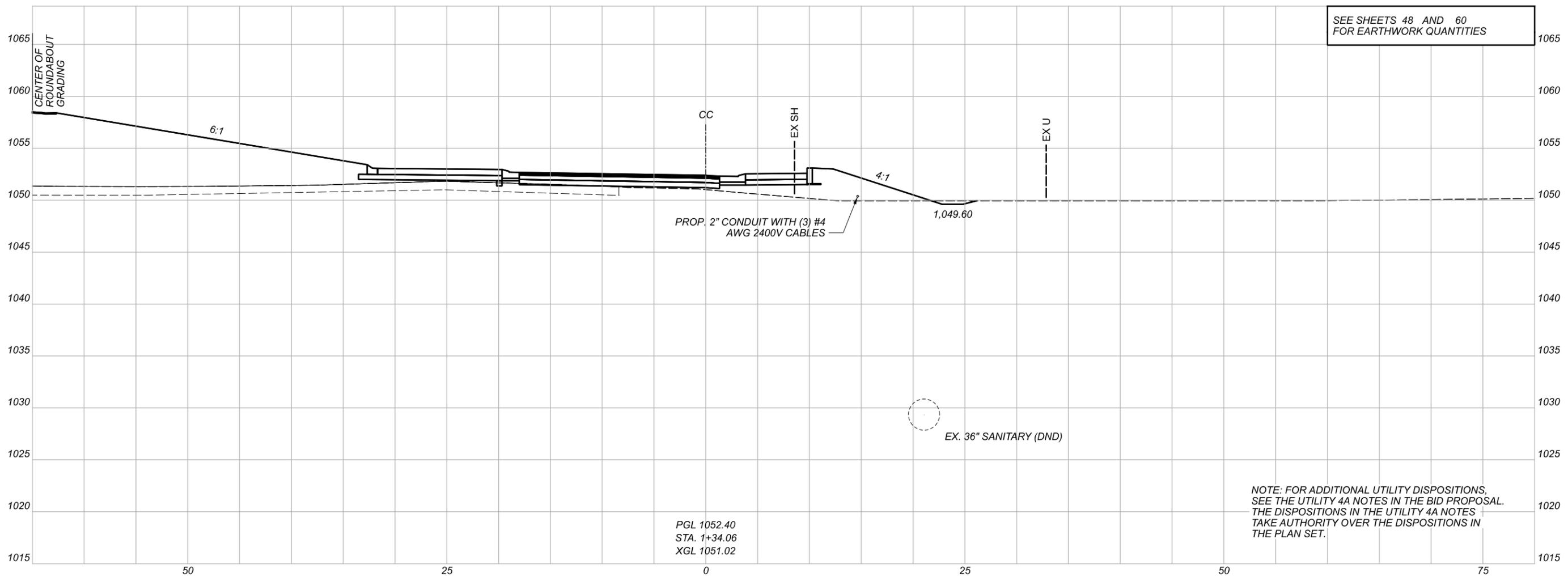
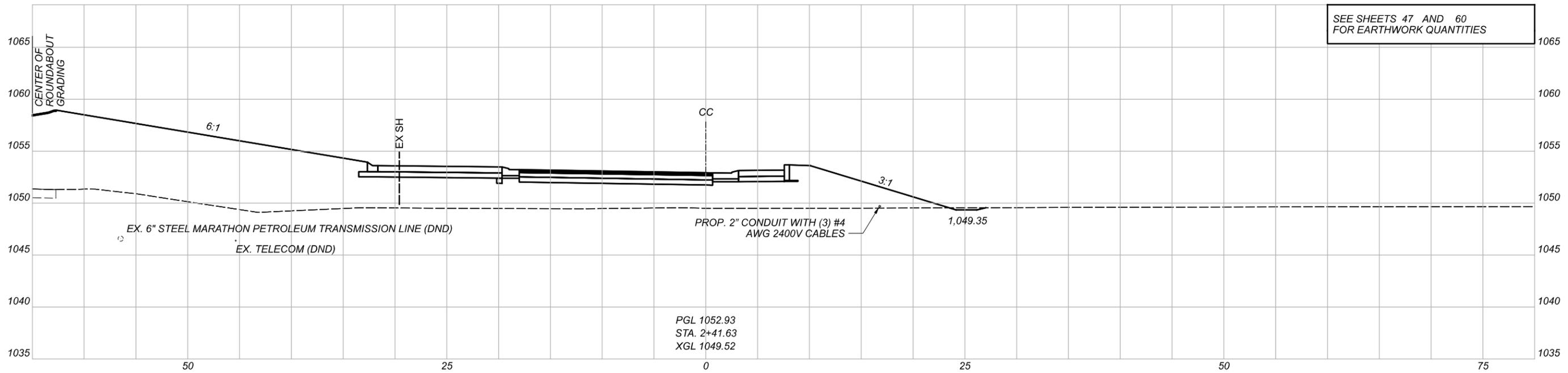
SEE SHEETS 48 AND 60 FOR EARTHWORK QUANTITIES

CROSS SECTIONS "CC"  
STA. 0+37.37

PGL 1052.09  
STA. 0+37.37  
XGL 1051.79

NOTE: FOR ADDITIONAL UTILITY DISPOSITIONS,  
SEE THE UTILITY 4A NOTES IN THE BID PROPOSAL.  
THE DISPOSITIONS IN THE UTILITY 4A NOTES  
TAKE AUTHORITY OVER THE DISPOSITIONS IN  
THE PLAN SET.

DESIGN AGENCY	<b>B&amp;N</b> burgessniple.com
DESIGNER	NJL
REVIEWER	ALR 9-23-21
PROJECT ID	109451
SHEET	66
TOTAL	102



CROSS SECTIONS "CC"  
STA. 1+34.06 TO STA. 2+41.63

DESIGN AGENCY

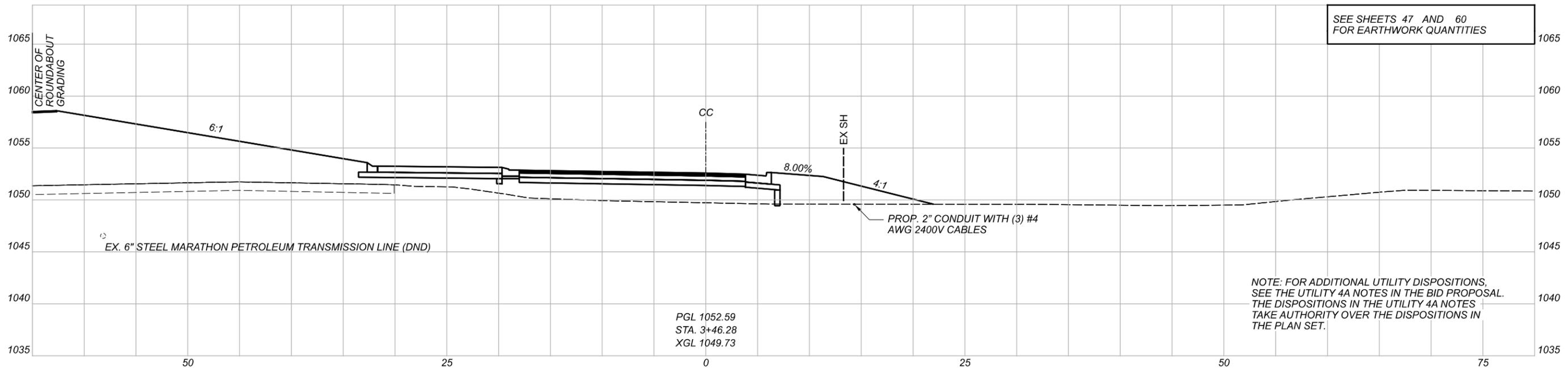


DESIGNER  
NJL

REVIEWER  
ALR 9-23-21

PROJECT ID  
109451

SHEET TOTAL  
67 102



EARTHWORK SUBSUMMARY

	203	203	659
	EXCAVATION	EMBANKMENT	SEEDING AND MULCHING, AS PER PLAN
	CY	CY	SY
SELMA PIKE	841	1628	1485
E POSSUM ROAD	634	2280	3633
<b>QUANTITIES CARRIED TO GENERAL SUMMARY</b>	<b>1475</b>	<b>3908</b>	<b>5118</b>

DESIGN AGENCY



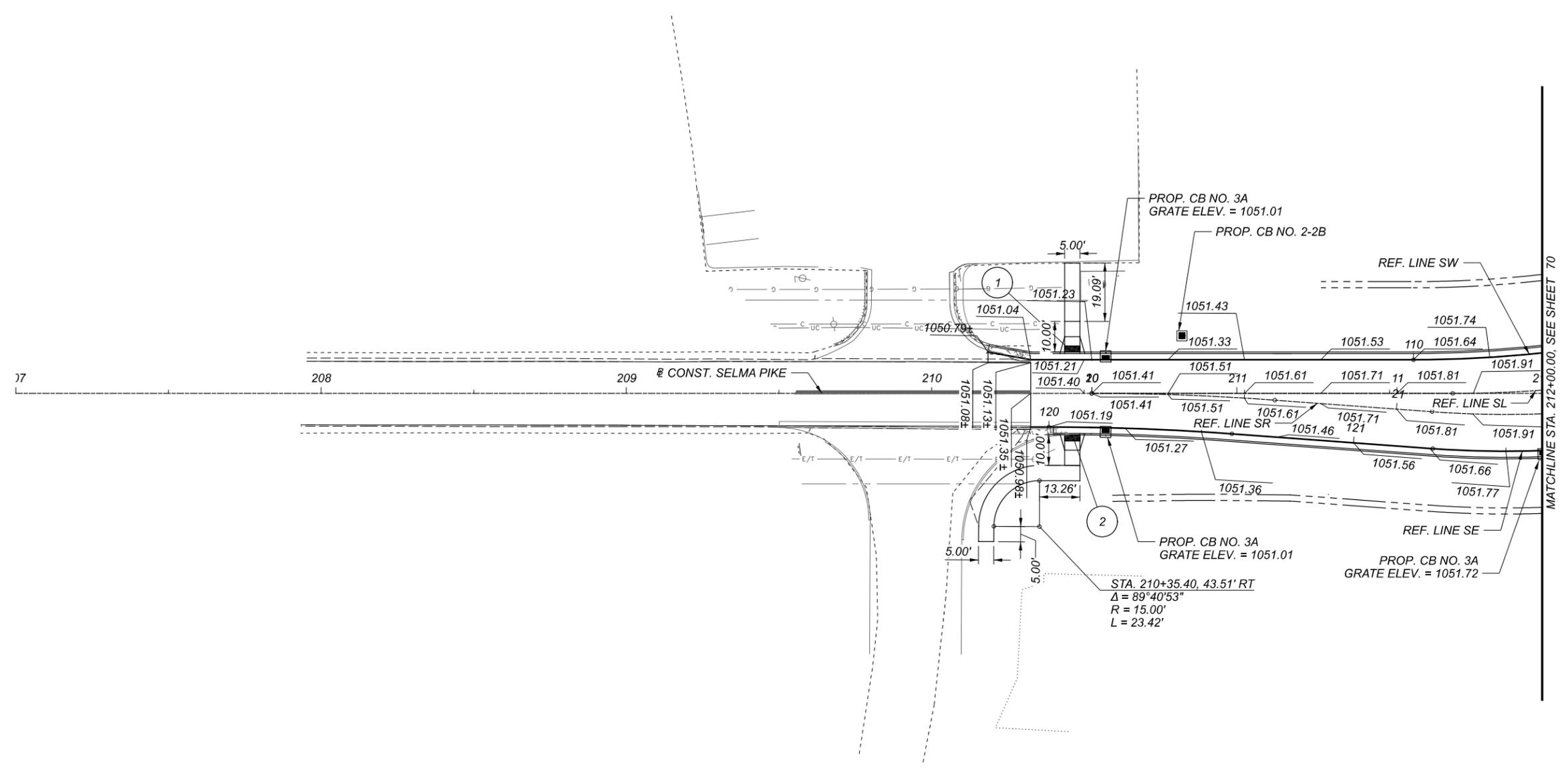
DESIGNER  
NJL

REVIEWER  
ALR 9-23-21

PROJECT ID  
109451

SHEET TOTAL  
68 102

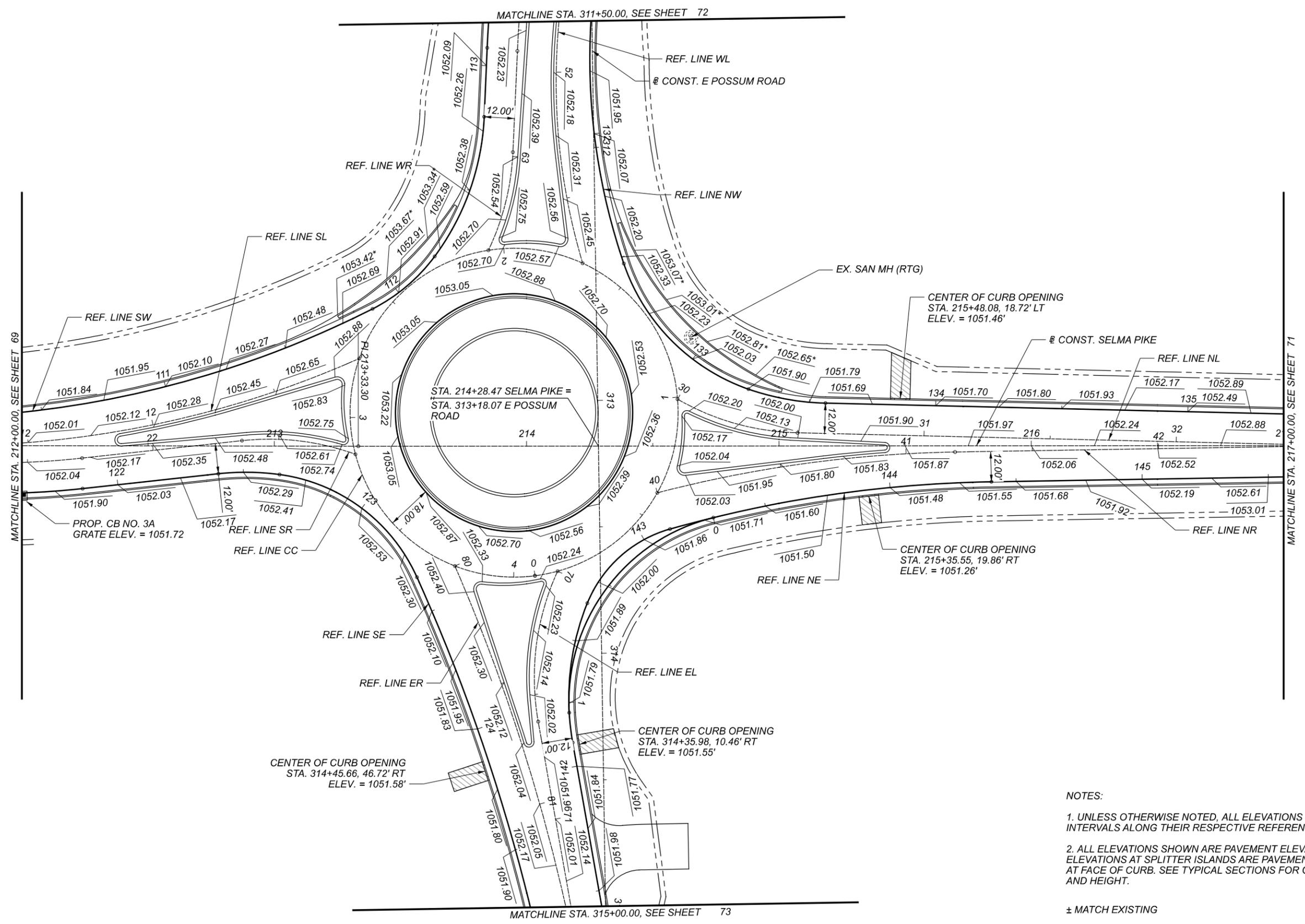
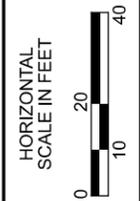
ID	RAMP TYPE	@ STATION	@ OFFSET
1	A2	210+46.11	13.50' LT
2	A2	210+46.11	13.50' RT



NOTES:

- UNLESS OTHERWISE NOTED, ALL ELEVATIONS SHOWN AT 25' INTERVALS ALONG THEIR RESPECTIVE REFERENCE LINES.
- ALL ELEVATIONS SHOWN ARE PAVEMENT ELEVATIONS. SEE TYPICAL SECTIONS FOR CURB TYPE AND HEIGHT.

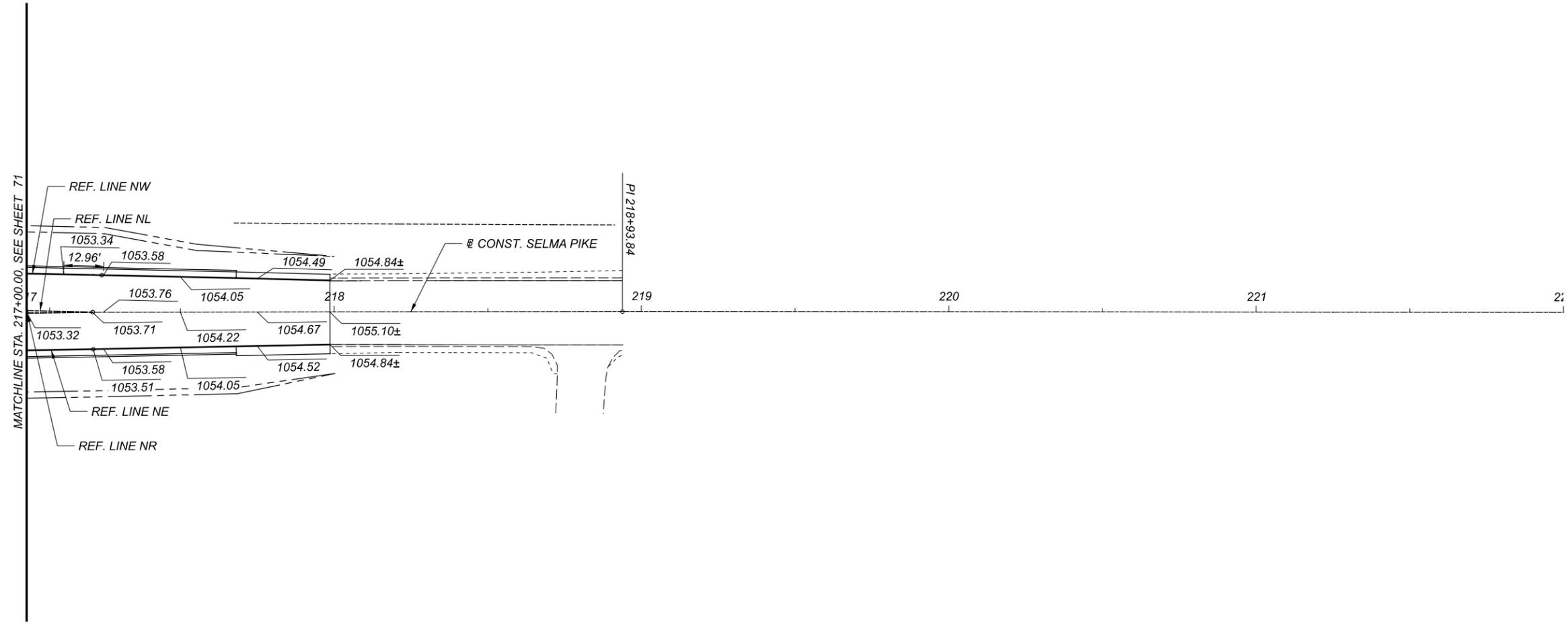
± MATCH EXISTING



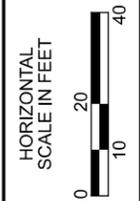
INTERSECTION DETAIL  
SELMA PIKE AND E POSSUM ROAD

- NOTES:
1. UNLESS OTHERWISE NOTED, ALL ELEVATIONS SHOWN AT 25' INTERVALS ALONG THEIR RESPECTIVE REFERENCE LINES.
  2. ALL ELEVATIONS SHOWN ARE PAVEMENT ELEVATIONS. ELEVATIONS AT SPLITTER ISLANDS ARE PAVEMENT ELEVATIONS AT FACE OF CURB. SEE TYPICAL SECTIONS FOR CURB TYPE AND HEIGHT.
- ± MATCH EXISTING
- \*TOP BACK OF CURB ELEVATION

DESIGN AGENCY	
<b>B&amp;N</b> burgessniple.com	
DESIGNER	NJL
REVIEWER	NJL 10-1-21
PROJECT ID	109451
SHEET	TOTAL
70	102



NOTES:  
 1. UNLESS OTHERWISE NOTED, ALL ELEVATIONS SHOWN AT 25' INTERVALS ALONG THEIR RESPECTIVE REFERENCE LINES.  
 2. ALL ELEVATIONS SHOWN ARE PAVEMENT ELEVATIONS. SEE TYPICAL SECTIONS FOR CURB TYPE AND HEIGHT.  
 ± MATCH EXISTING



INTERSECTION DETAIL  
 NORTH LEG

DESIGN AGENCY

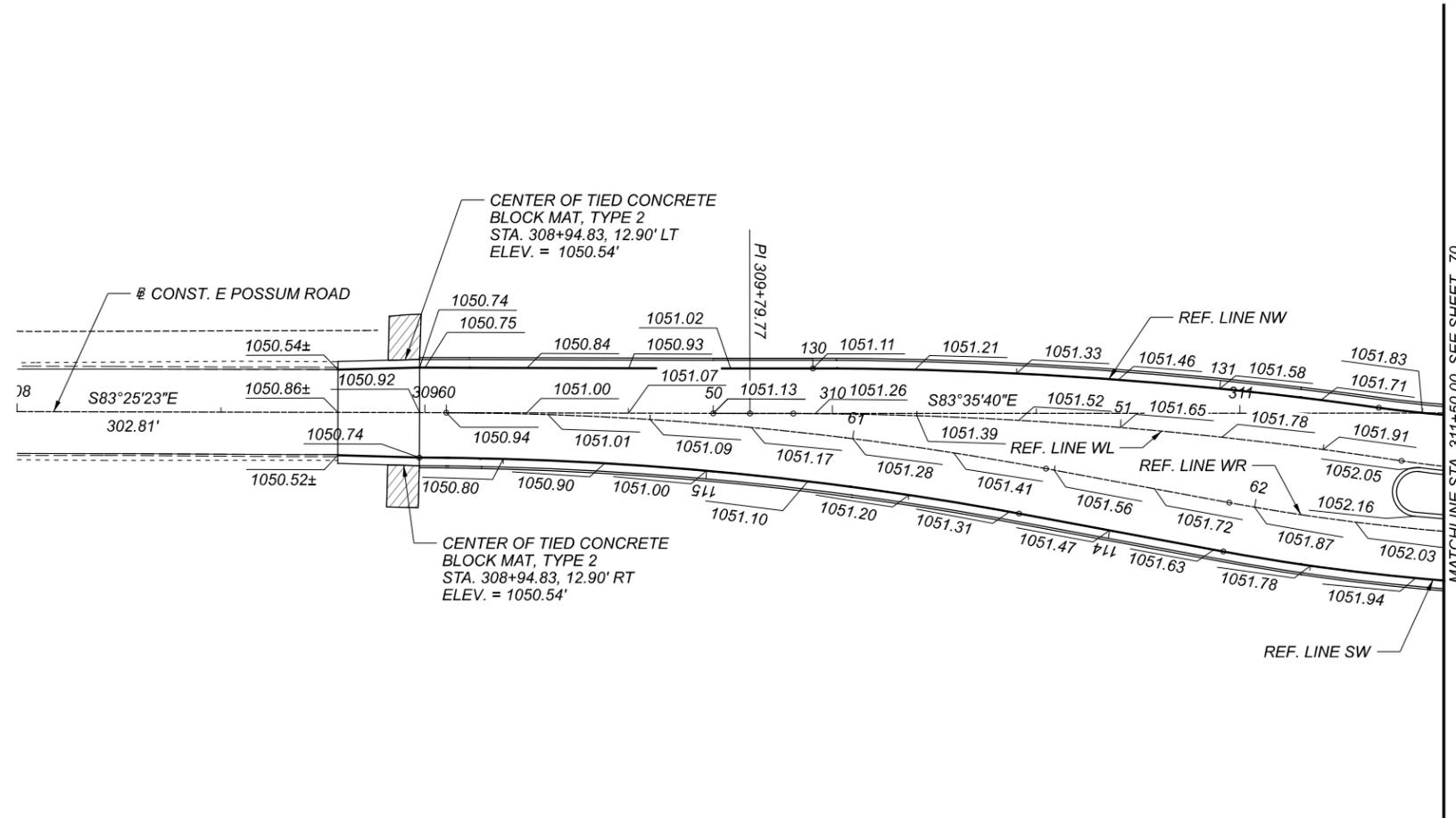


DESIGNER  
 NJL

REVIEWER  
 JED 10-1-21

PROJECT ID  
 109451

SHEET	TOTAL
71	102



MATCHLINE STA. 311+50.00, SEE SHEET 70

NOTES:

1. UNLESS OTHERWISE NOTED, ALL ELEVATIONS SHOWN AT 25' INTERVALS ALONG THEIR RESPECTIVE REFERENCE LINES.
2. ALL ELEVATIONS SHOWN ARE PAVEMENT ELEVATIONS. ELEVATIONS AT SPLITTER ISLANDS ARE PAVEMENT ELEVATIONS AT FACE OF CURB. SEE TYPICAL SECTIONS FOR CURB TYPE AND HEIGHT.

± MATCH EXISTING



INTERSECTION DETAIL  
WEST LEG

DESIGN AGENCY

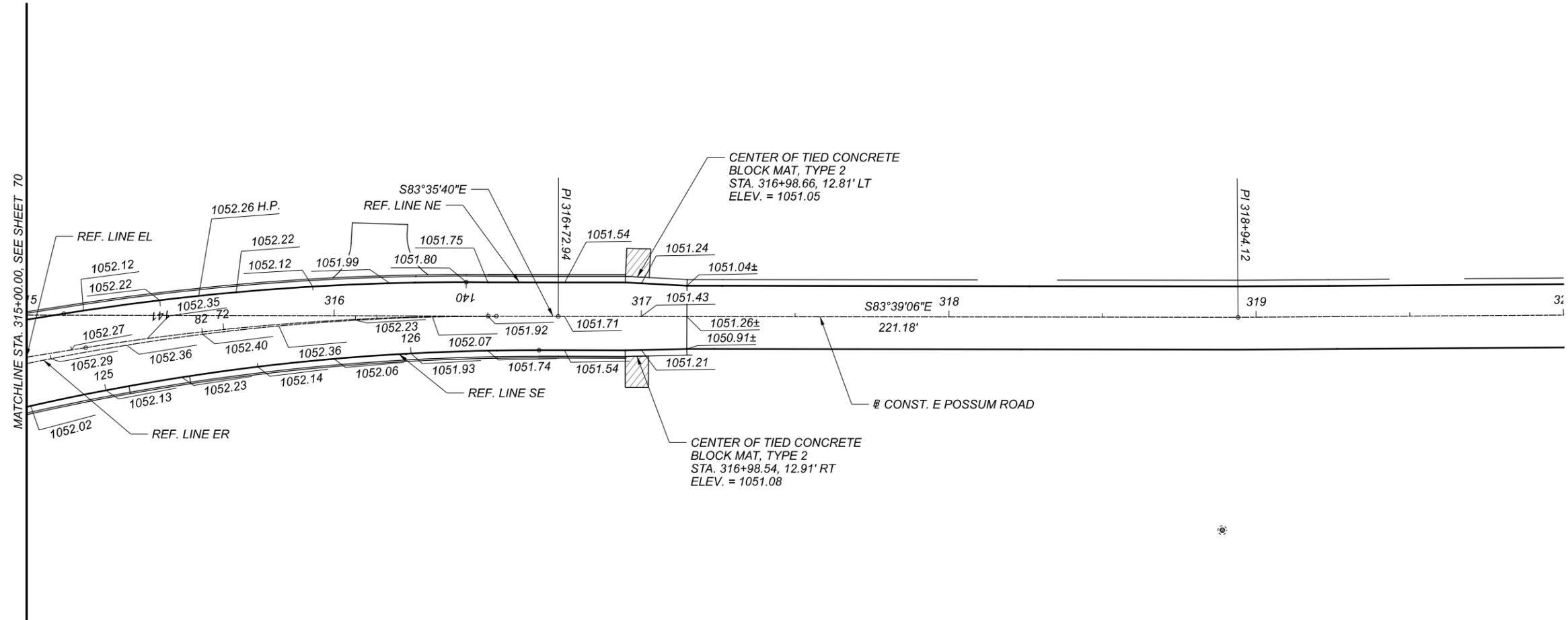


DESIGNER  
NJL

REVIEWER  
JED 10-1-21

PROJECT ID  
109451

SHEET	TOTAL
72	102



NOTES:  
 1. UNLESS OTHERWISE NOTED, ALL ELEVATIONS SHOWN AT 25' INTERVALS ALONG THEIR RESPECTIVE REFERENCE LINES.  
 2. ALL ELEVATIONS SHOWN ARE PAVEMENT ELEVATIONS. SEE TYPICAL SECTIONS FOR CURB TYPE AND HEIGHT.  
 ± MATCH EXISTING

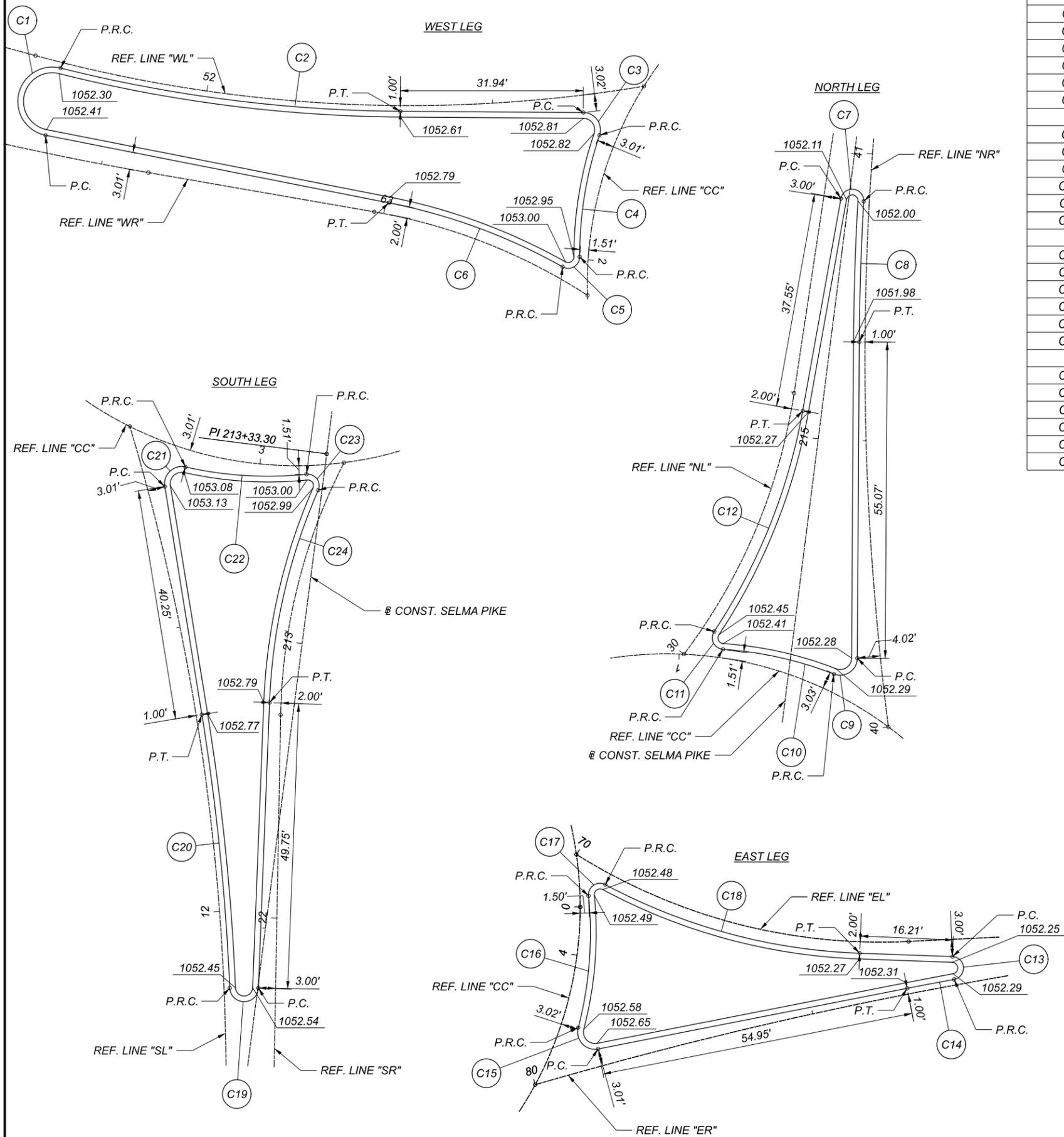


INTERSECTION DETAIL  
EAST LEG

DESIGN AGENCY



DESIGNER	NJL
REVIEWER	JED
PROJECT ID	10-1-21
SHEET	109451
TOTAL	73 / 102



CURVE NO.	RADIUS	CENTER POINT		BEGIN CURVE		END CURVE	
		NORTHING	EASTING	NORTHING	EASTING	NORTHING	EASTING
C1	6.00	684030.220	1609434.202	684024.332	1609433.047	684036.040	1609435.660
C2	251.00	684279.511	1609496.676	684036.040	1609435.660	684028.516	1609494.965
C3	3.00	684025.299	1609526.881	684028.299	1609526.902	684024.333	1609529.721
C4	65.00	684003.414	1609591.263	684024.333	1609529.721	684003.169	1609526.263
C5	2.00	684003.162	1609524.263	684003.169	1609526.263	684001.418	1609523.284
C6	102.00	683912.480	1609473.344	684001.418	1609523.284	684012.571	1609492.984
C7	2.00	684142.343	1609624.895	684142.698	1609622.927	684142.233	1609626.892
C8	501.00	684114.569	1610127.128	684142.233	1609626.892	684117.742	1609626.138
C9	3.00	684062.690	1609622.789	684062.671	1609625.789	684059.896	1609621.596
C10	65.00	683999.361	1609598.022	684059.896	1609621.596	684064.217	1609602.339
C11	2.00	684066.213	1609602.472	684064.217	1609602.339	684067.321	1609600.807
C12	102.00	684123.823	1609515.886	684067.321	1609600.807	684105.743	1609616.271
C13	2.00	683987.783	1609722.516	683989.652	1609721.904	683985.816	1609722.878
C14	751.00	683247.240	1609858.920	683985.816	1609722.878	683984.259	1609714.685
C15	3.00	683976.649	1609660.177	683973.705	1609660.753	683977.410	1609657.275
C16	65.00	683993.892	1609594.400	683977.410	1609657.275	684000.367	1609659.076
C17	2.00	684000.566	1609661.066	684000.367	1609659.076	684002.330	1609662.009
C18	102.00	684092.300	1609710.065	684002.330	1609662.009	683990.366	1609706.385
C19	2.50	683842.574	1609583.521	683842.476	1609586.019	683842.468	1609581.023
C20	401.00	683825.558	1609180.380	683842.468	1609581.023	683890.084	1609576.154
C21	3.00	683930.291	1609572.639	683929.809	1609569.678	683933.217	1609573.304
C22	65.00	683996.600	1609587.710	683933.217	1609573.304	683931.947	1609594.415
C23	2.00	683929.958	1609594.621	683931.947	1609594.415	683929.155	1609596.453
C24	102.00	683888.219	1609689.878	683929.155	1609596.453	683892.189	1609587.956



SPLITTER ISLAND DETAILS

NOTE:  
ALL ELEVATIONS SHOWN ARE TOP BACK OF CURB.

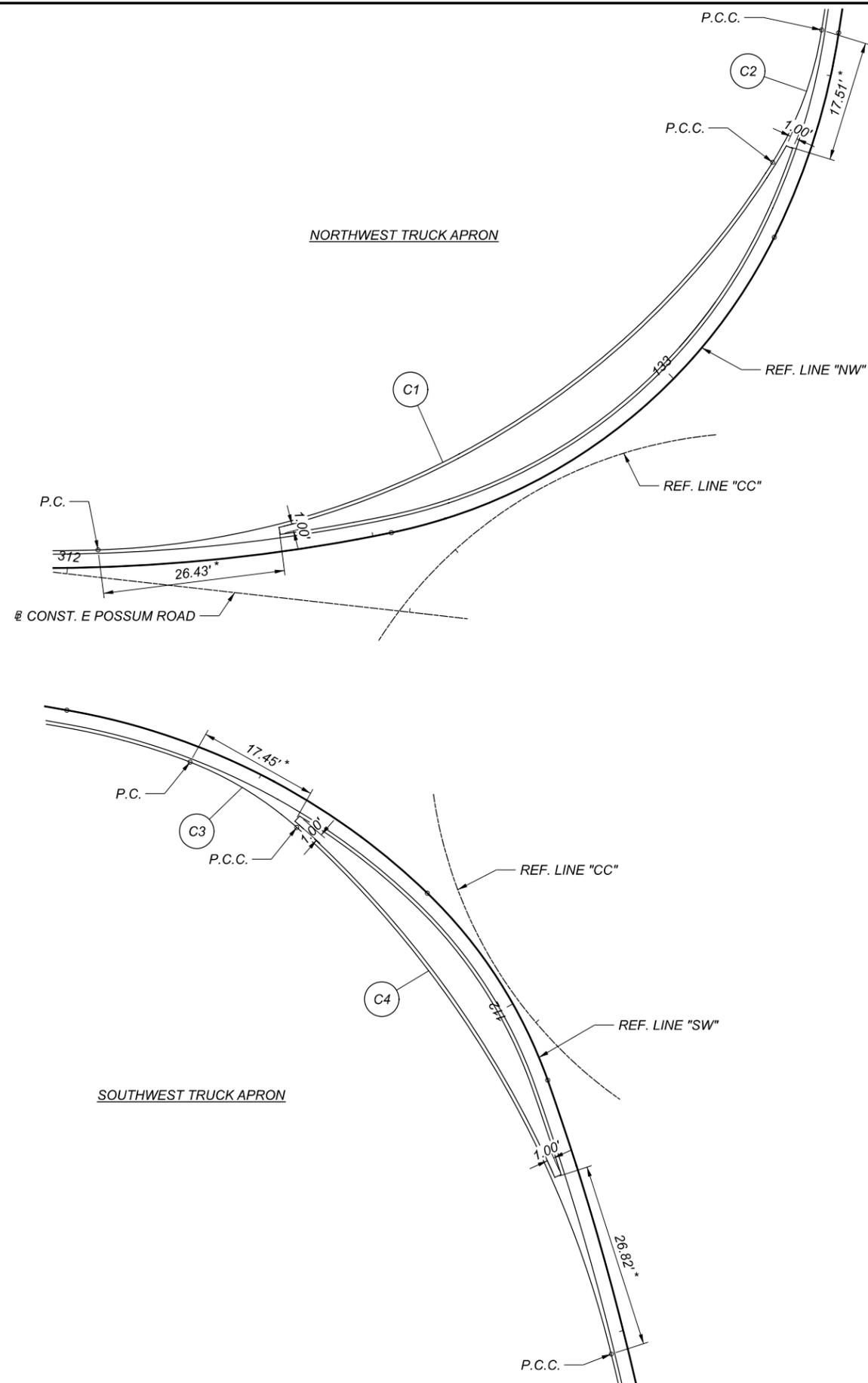
DESIGN AGENCY  
**B&N**  
burgessniple.com

DESIGNER  
NJL

REVIEWER  
JED 10-1-21

PROJECT ID  
109451

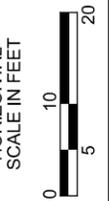
SHEET TOTAL  
74 102



CURVE NO.	RADIUS	CENTER POINT		BEGIN CURVE		END CURVE	
		NORTHING	EASTING	NORTHING	EASTING	NORTHING	EASTING
C1	120.00	684166.466	1609493.354	684046.525	1609497.138	684102.571	1609594.930
C2	50.00	684129.194	1609552.607	684102.571	1609594.930	684121.697	1609602.041
C3	50.00	683947.302	1609475.037	683993.987	1609492.942	683984.528	1609508.418
C4	150.00	683872.851	1609408.277	683984.528	1609508.418	683908.385	1609554.007

NOTE: SEE SHEET 70 FOR EXTERIOR TRUCK APRON ELEVATIONS.

\* TRANSITION FROM COMBINATION CURB AND GUTTER, TYPE 3 TO COMBINATION CURB AND GUTTER, TYPE 9, AS PER PLAN AT INDICATED LOCATIONS. TRANSITION IS INCIDENTAL TO AND INCLUDED IN THE COST OF THE PERTINENT 609 ITEMS.



SPLITTER ISLAND DETAILS  
EXTERIOR TRUCK APRONS

DESIGN AGENCY

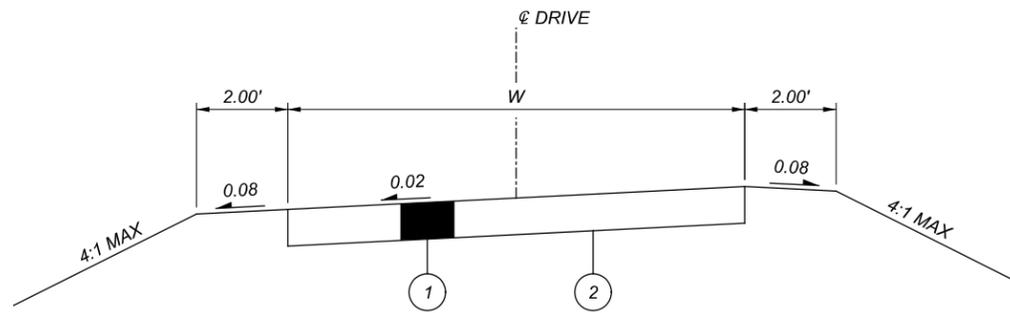
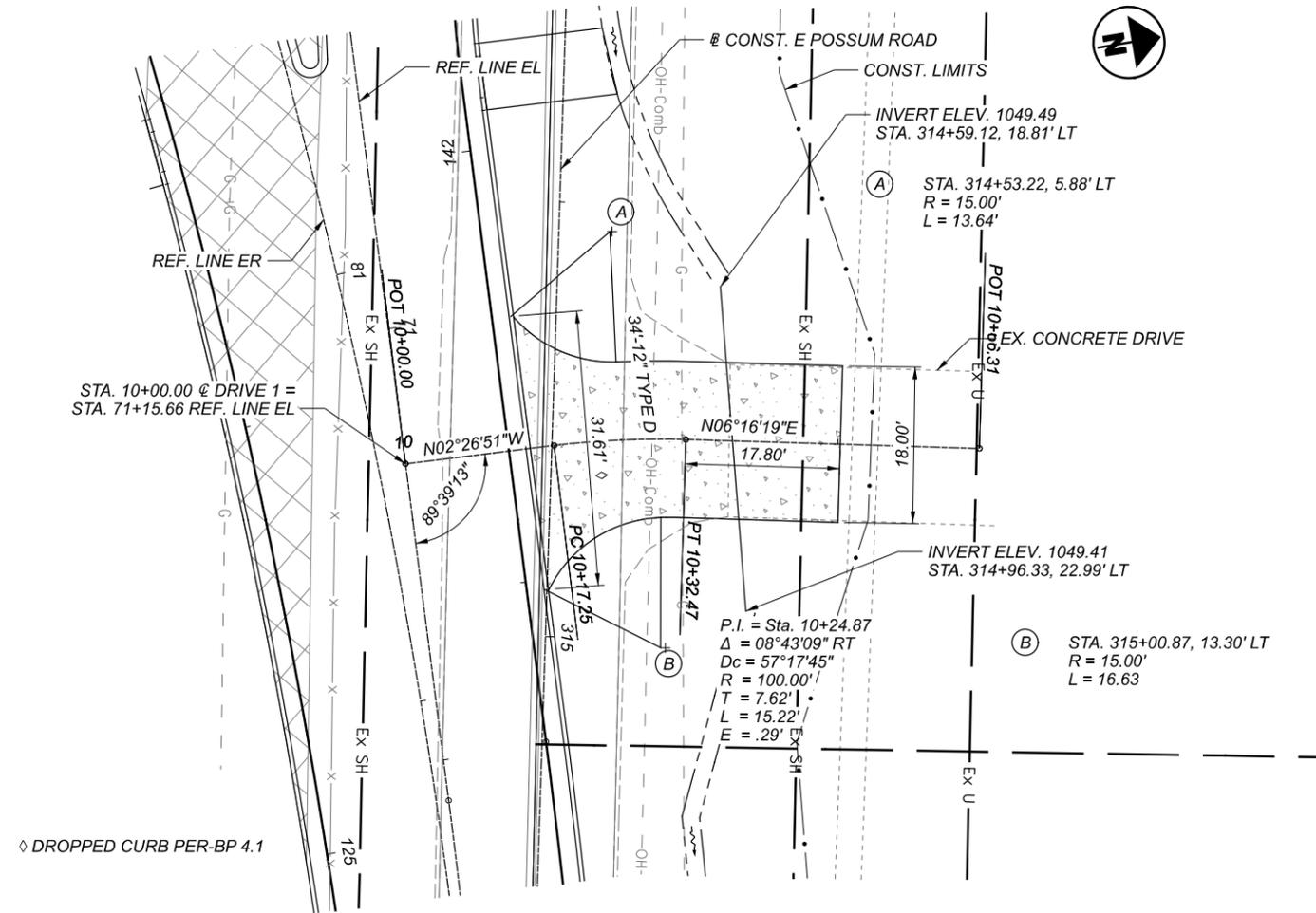


DESIGNER  
NJL

REVIEWER  
JED 10-1-21

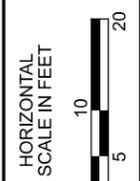
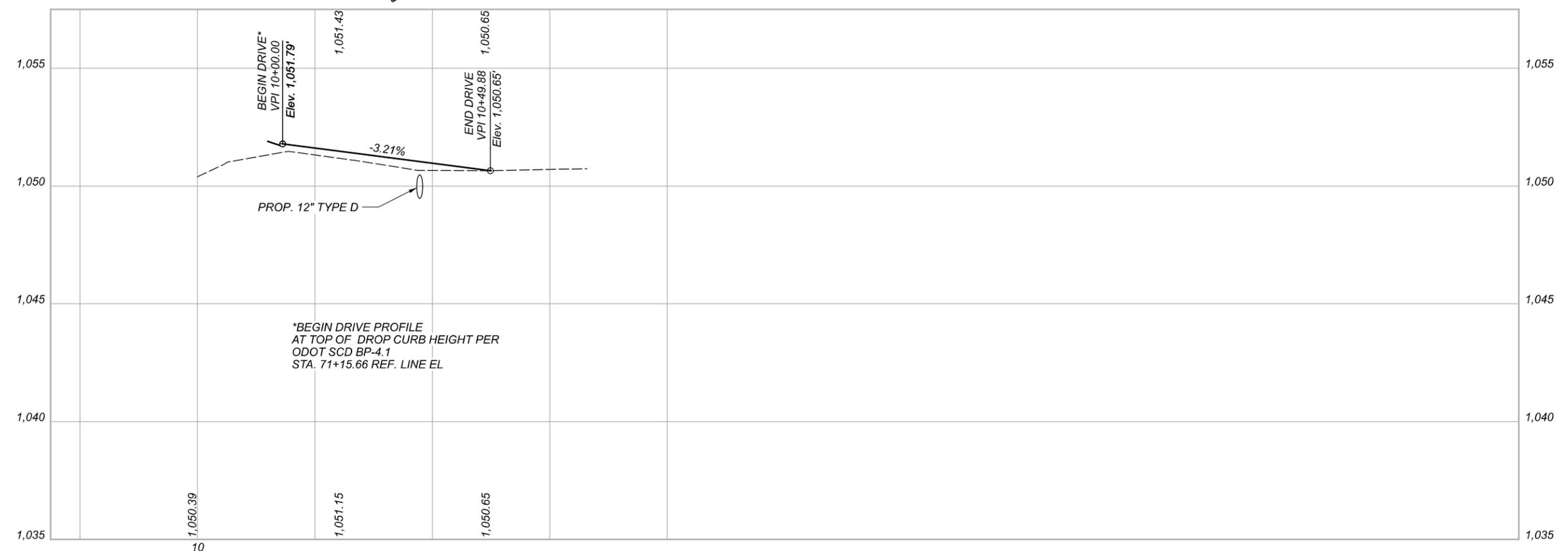
PROJECT ID  
109451

SHEET TOTAL  
75 | 102



- 1 452 - 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P
- 2 204 - SUBGRADE COMPACTION

CADD GENERATED AREA	204	452
	SUBGRADE COMPACTION	SY
6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	SY	SY
QUANTITIES CARRIED TO GENERAL SUMMARY	78.47	79



DRIVE DETAIL  
DRIVE 1



**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, PUSH BUTTON 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 INDICATION ON THE BACK.
  - C. EACH RRFB SHALL BE SUPPLIED WITH ALL REQUIRED HARDWARE TO INSTALL ASSEMBLY. ALL EXPOSED HARDWARE SHALL BE ANTI-VANDAL.
  - 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. A SMALL LED 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 BE NO SMALLER THAN 2" IN DIAMETER AND CONTAIN A MINIMUM ILLUMINANCE OF 100 LUX MEASURED AT 30 CM
2. SIGNS
  - A. ALL SIGN ASSEMBLIES SHALL USE ANTI-VANDAL FASTENER 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

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

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.
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 THROUGHOUT 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.
  - C. RRFB FLASH DURATION SHALL BE SET TO 14 SECONDS.
7. PEDESTAL SHAFT AND BASE
  - A. 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.
8. FOUNDATION
  - A. FOUNDATION SHALL BE A PEDESTAL FOUNDATION PER TC-83.20.

**CONSTRUCTION**

THE RRFB SHALL BE ASSEMBLED AND CONSTRUCTED BY THE CONTRACTOR AS SHOWN AND SPECIFIED ON THE PLANS. WARRANTY SHALL BE TWO YEARS FROM THE DATE OF FINAL PROJECT CLOSEOUT.

**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 SIGNING MISC.: RELOCATION OF SIGN FLASHER ASSEMBLY**

THE EXISTING FLASHER AND SOLAR PANEL ASSEMBLY INCLUDING THE POSTS, SIGN, CONTROLLER CABINET, WIRING, ETC. THAT ATTACH TO THE GROUND MOUNTED POSTS SHALL BE REMOVED AND RELOCATED WHERE DIRECTED IN THE PLANS. BOLT THE ASSEMBLY ONTO THE PROPOSED SIGN SUPPORTS WITH THE EXISTING OR NEW BOLTS. ONCE INSTALLED BE SURE THE SOLAR PANEL IS FACING THE SAME WAY AS BEFORE. THE PROPOSED SUPPORTS ARE INCLUDED IN THIS PAY ITEM AS WELL.

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE PER EACH FOR ITEM 630 "SIGNING MISC.: RELOCATION OF SIGN FLASHER ASSEMBLY".

**ITEM 630 SIGNING MISC.: REMOVAL AND DELIVERY OF FLASHER**

THE EXISTING FLASHER AND SOLAR PANEL ASSEMBLY INCLUDING THE SIGNS, POSTS THAT ATTACH TO THE GROUND MOUNTED POSTS, AND ENTIRE ASSEMBLY SHALL BE REMOVED AND DELIVERED TO CLARK COUNTY ENGINEER'S OFFICE:

4075 LAYBOURNE ROAD,  
SPRINGFIELD, OH 45505

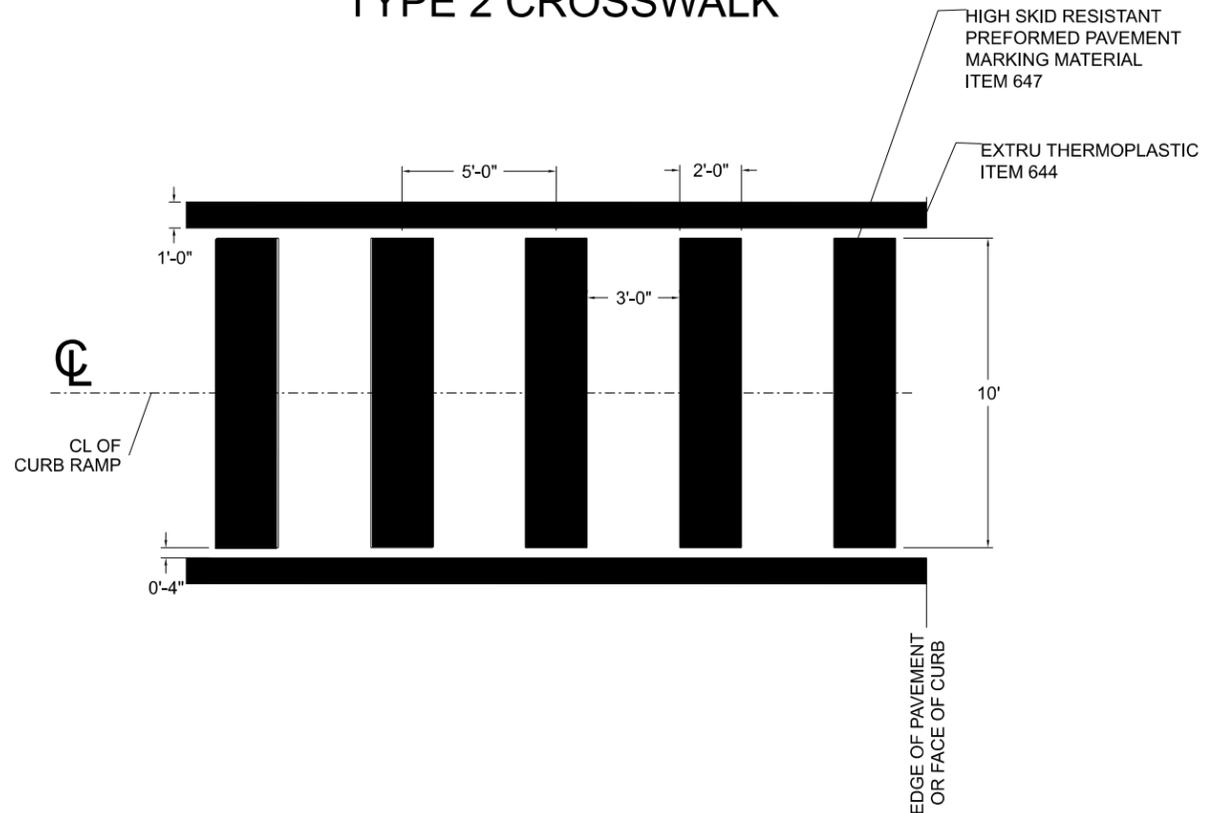
PAYMENT WILL BE AT THE CONTRACT UNIT PRICE PER EACH FOR ITEM 630 "SIGNING MISC.: REMOVAL AND DELIVERY OF FLASHER".

**ITEM 630 GROUND MOUNTED SUPPORT, NO. 3 POST, AS PER PLAN**

GROUND MOUNTED SUPPORT, NO. 3 POST IN CONCRETE SHALL BE SQUARE POST ANCHOR BASE INSTALLATION PER TC-41.20. ALL OTHER GROUND MOUNTED SUPPORT, NO. 3 POST SHALL BE U-CHANNEL DRIVEN INSTALLATION.

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE PER EACH FOR ITEM 630 "GROUND MOUNTED SUPPORT, NO. 3 POST, AS PER PLAN" INCLUDING THE ANCHOR BASE WHEN NECESSARY.

**TYPE 2 CROSSWALK**



DESIGN AGENCY

**B&N**  
burgessniple.com

DESIGNER

JZM

REVIEWER

EMW 10-01-21

PROJECT ID

109451

SHEET

TOTAL

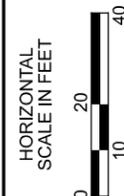
78 | 102



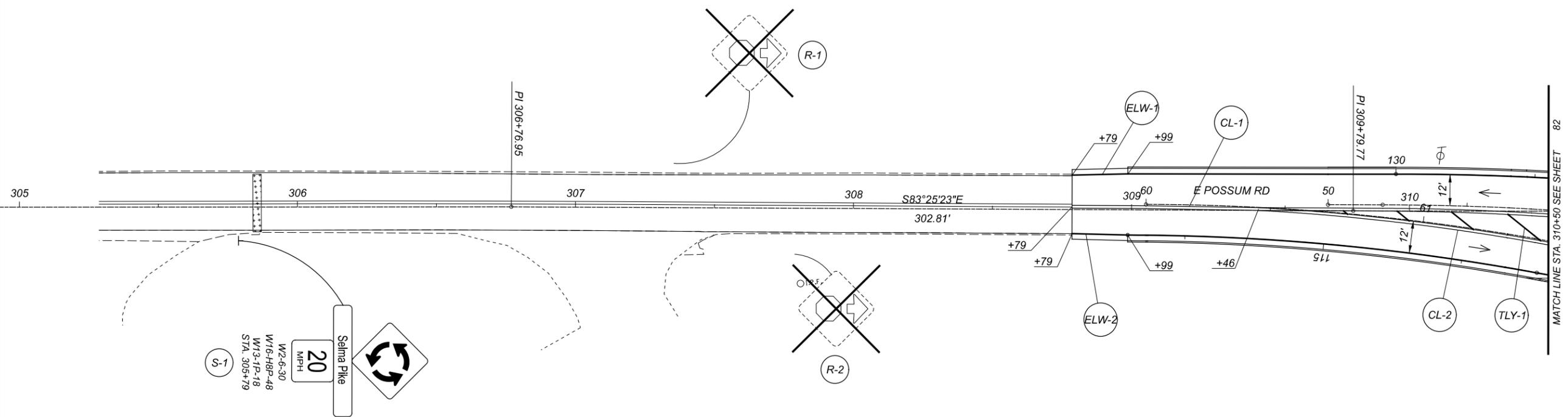
REF NO.	SHEET NO.			STATION TO STATION		SIDE	644	644	644	644	644	644	644	647	
							EDGE LINE, 4", WHITE FT	EDGE LINE, 4", YELLOW FT	CENTER LINE MILE	TRANSVERSE/DIAGONAL LINE FT	YIELD LINE FT	DOTTED LINE, 12" FT	CROSSWALK LINE, 12" FT	CROSSWALK LINE, 24", TYPE B90 FT	
ELW-1	81			308+79.00	TO	308+99.00	LT	20							
ELW-2	81			308+79.00	TO	308+99.00	RT	20							
CL-1	81			308+79.00	TO	310+50.00	CL			0.03					
CL-2	81			309+46.00	TO	310+50.00	RT			0.02					
TLY-1	81			309+46.00	TO	310+50.00	RT				33				
TLY-2	82			310+50.00	TO	311+44.00	RT				95				
CL-3	82			310+50.00	TO	311+44.00	RT			0.02					
CL-4	82			310+50.00	TO	311+43.00	RT			0.02					
ELY-1	82			311+44.00	TO	312+46.00	RT		102						
ELY-2	82			311+43.00	TO	312+40.00	RT		99						
ELW-3	82			312+40.00	TO	312+46.00	RT		34						
YL-1	82			312+28.00	TO	312+28.00	RT				15				
DL-1	82			312+40.00	TO	213+54.00	RT					37			
ELW-4	82			313+65.00	TO	313+67.00	RT	41							
DL-2	82			214+52.00	TO	313+67.00	BOTH					36			
TLW-1	82			214+74.00	TO	314+23.00	BOTH				20				
ELW-5	82			214+74.00	TO	314+23.00	BOTH	107							
YL-2	82			313+79.00	TO	313+79.00	RT				15				
ELY-3	82			313+65.00	TO	314+37.00	RT		70						
ELY-4	82			313+67.00	TO	314+37.00	RT		77						
TLY-3	82			314+37.00	TO	315+00.00	RT				17				
CL-5	82			314+37.00	TO	316+00.00	RT			0.03					
CL-6	82			314+37.00	TO	316+00.00	RT			0.03					
CL-7	83			316+00.00	TO	316+50.00	RT			0.01					
CL-8	83			316+00.00	TO	316+50.00	CL			0.01					
CL-9	83			316+50.00	TO	321+00.00	CL			0.09					
ELW-6	83			316+95.00	TO	321+00.00	LT	405							
ELW-7	83			316+95.00	TO	321+00.00	RT	405							
CL-10	84			321+00.00	TO	321+62.00	CL			0.01					
CL-20	84			322+20.00	TO	322+79.00	CL			0.01					
ELW-8	84			321+00.00	TO	322+79.00	RT	179							
ELW-9	84			321+00.00	TO	322+79.00	LT	179							
CW-1	85	AND	78	210+41.00	TO	210+51.00	BOTH					50	50		
CL-11	85			210+33.00	TO	210+41.00	CL			0.002					
CL-12	85			210+51.00	TO	212+00.00	CL			0.04					
CL-13	85			210+56.00	TO	212+00.00	RT			0.03					
TLY-4	85			210+56.00	TO	212+00.00	RT				29				
TLY-5	82			212+00.00	TO	212+35.00	BOTH				22				
CL-14	82			212+00.00	TO	212+35.00	LT			0.01					
CL-15	82			212+00.00	TO	212+35.00	RT			0.01					
ELY-5	82			212+35.00	TO	213+33.00	LT		102						
ELY-6	82			212+35.00	TO	213+32.00	BOTH		96						
ELW-10	82			213+32.00	TO	213+33.00	BOTH	38							
YL-3	82			213+24.00	TO	213+24.00	RT				15				
DL-3	82			213+32.00	TO	213+54.00	RT					49			
ELY-11	82			313+50.00	TO	313+50.00	BOTH		295						
ELW-12	82			214+52.00	TO	214+60.00	BOTH	38							
DL-4	82			214+44.00	TO	214+60.00	LT					46			
YL-4	82			214+70.00	TO	214+70.00	LT				15				
ELY-7	82			214+60.00	TO	215+44.00	LT		87						
ELY-8	82			214+52.00	TO	215+44.00	RT		94						
CL-16	82			215+44.00	TO	215+50.00	LT	6							
CL-17	82			215+44.00	TO	215+50.00	RT	6							
TLY-6	82			215+44.00	TO	215+50.00	BOTH				7				
TLY-7	86			215+50.00	TO	217+22.00	RT				24				
CL-18	86			215+50.00	TO	217+99.00	CL			0.05					
CL-19	86			215+50.00	TO	217+22.00	RT			0.03					
ELW-13	86			217+68.00	TO	217+99.00	LT	31							
ELW-14	86			217+68.00	TO	217+99.00	RT	31							
<b>TOTAL IN MILE</b>							0.29	0.20							
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>							0.49	0.45	247	61	168	50	50		

PAVEMENT MARKINGS SUBSUMMARY

DESIGN AGENCY  
  
 DESIGNER  
 STB  
 REVIEWER  
 EMW 10-01-21  
 PROJECT ID  
 109451  
 SHEET TOTAL  
 80 | 102



SIGNING AND PAVEMENT MARKING PLAN  
BEGIN PROJECT TO STA. 310+50



PAVEMENT MARKING LEGEND	
(CL) ITEM 644, CENTER LINE, DOUBLE YELLOW	(TLY) ITEM 644, TRANSVERSE LINE, YELLOW
(ELW) ITEM 644, EDGE LINE, WHITE, 4"	(TLW) ITEM 644, TRANSVERSE LINE, WHITE
(ELY) ITEM 644, EDGE LINE, YELLOW, 4"	← DIRECTION OF TRAVEL
(YL) ITEM 644, YIELD LINE, WHITE	
(DL) ITEM 644, DOTTED LINE, WHITE, 12"	
(CW) ITEM 644, CROSSWALK LINE	

SIGNING LEGEND	
+	PROPOSED GROUND MTD. SIGN SUPPORT
□	PROPOSED SIGN
⊗	EXISTING SIGN TO BE REMOVED
⊞	EXISTING SIGN TO BE RELOCATED
#	REFERENCE NUMBER

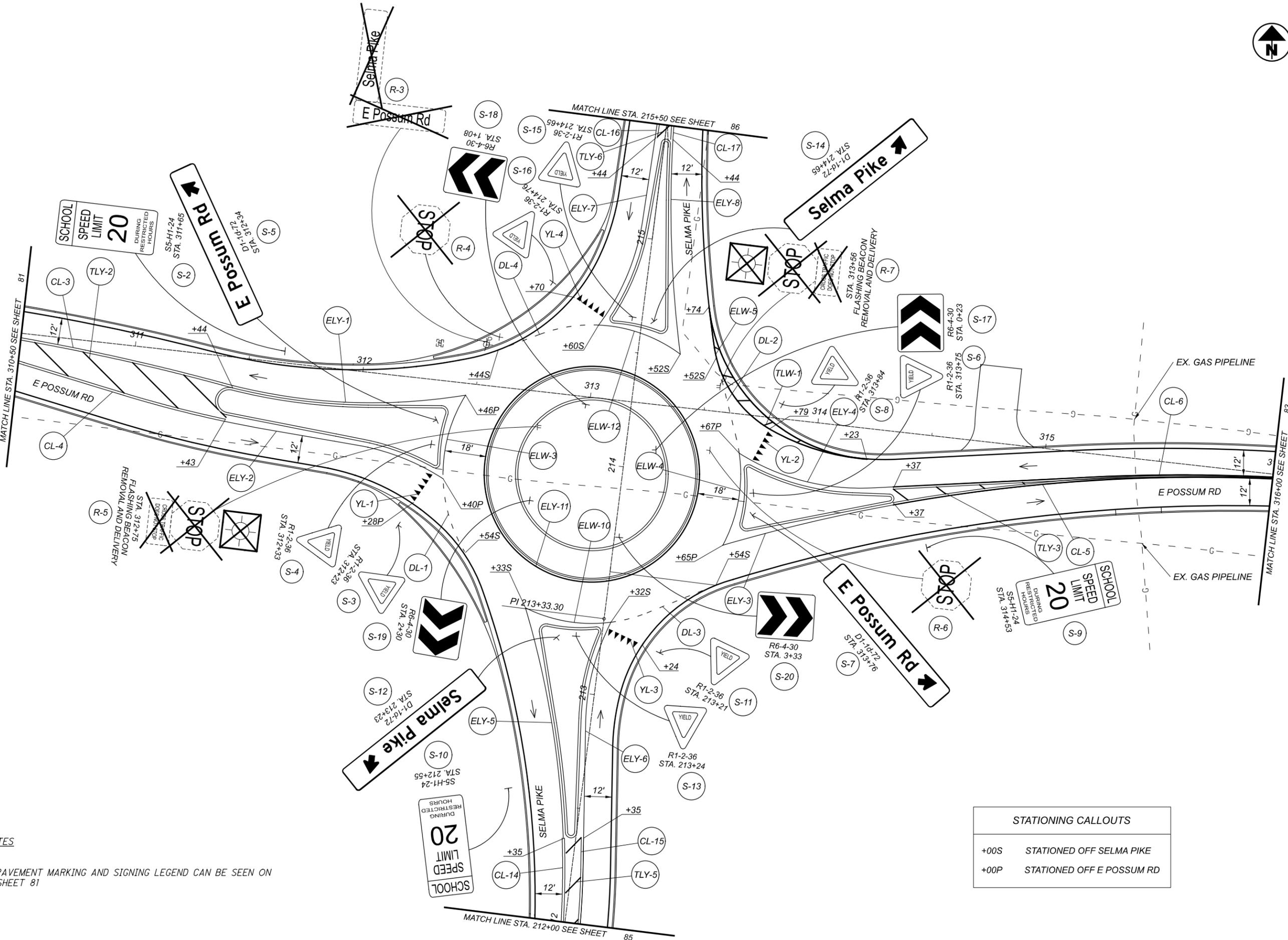
NOTES

- CONTRACTOR SHALL PLACE ALL SIGNS IN ACCORDANCE WITH ODOT STANDARD DRAWING TC-42.20 UNLESS OTHERWISE SPECIFIED; HOWEVER, CONTRACTOR SHALL ADJUST THE LOCATION IF NECESSARY TO AVOID UNDERGROUND UTILITIES. USE CAUTION DURING INSTALLATION.

DESIGN AGENCY



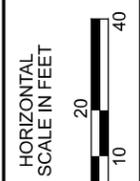
DESIGNER	JZM
REVIEWER	EMW
PROJECT ID	109451
SHEET	TOTAL
81	102



**NOTES**

1. PAVEMENT MARKING AND SIGNING LEGEND CAN BE SEEN ON SHEET 81

STATIONING CALLOUTS	
+00S	STATIONED OFF SELMA PIKE
+00P	STATIONED OFF E POSSUM RD

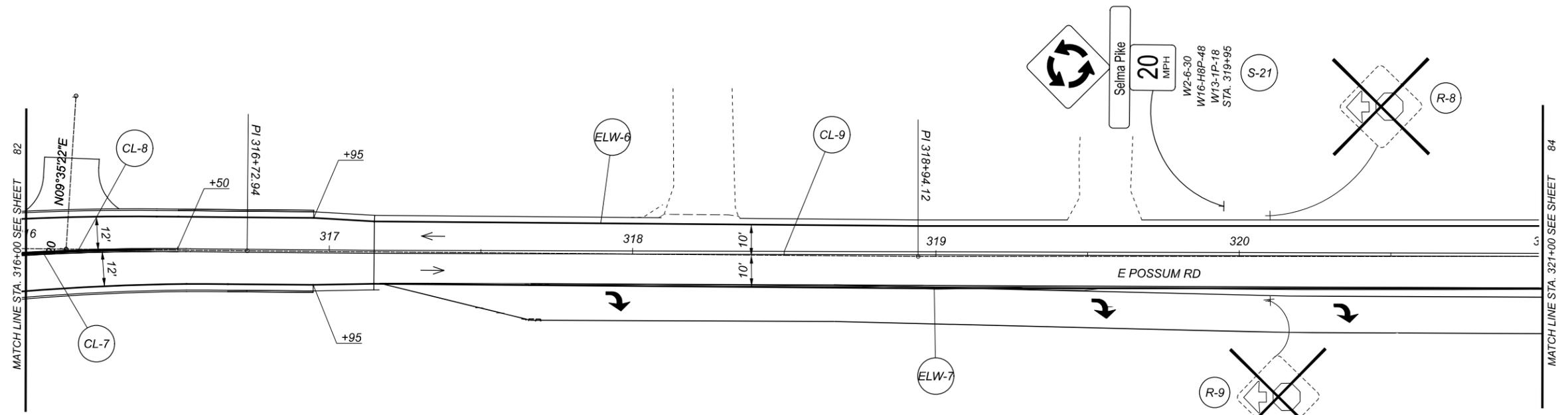


**SIGNING AND PAVEMENT MARKING PLAN**  
 STA. 310+50 TO STA. 316+00

DESIGN AGENCY



DESIGNER	JZM
REVIEWER	EMW
PROJECT ID	109451
SHEET	TOTAL
82	102



NOTES

1. PAVEMENT MARKING AND SIGNING LEGEND CAN BE SEEN ON SHEET 81



SIGNING AND PAVEMENT MARKING PLAN  
STA. 316+00 TO STA. 321+00

DESIGN AGENCY



DESIGNER  
JZM

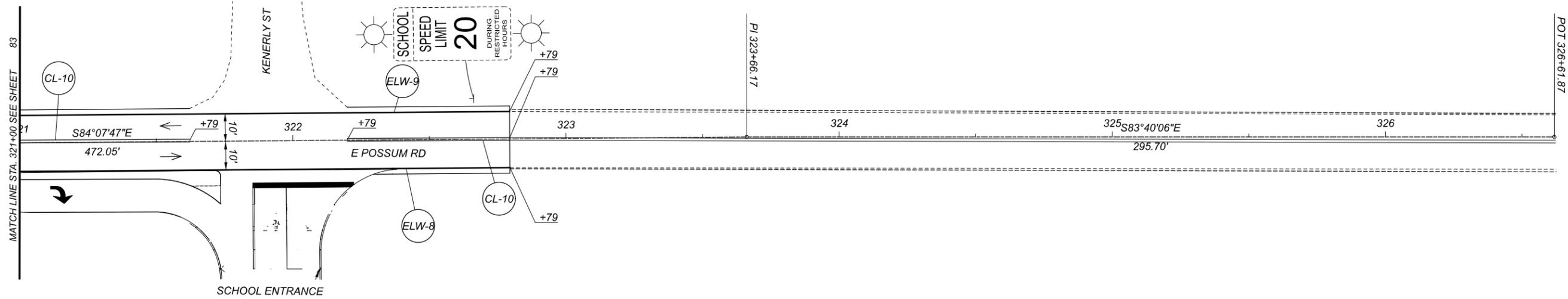
REVIEWER

EMW 10-01-21

PROJECT ID

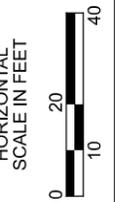
109451

SHEET	TOTAL
83	102



NOTES

1. PAVEMENT MARKING AND SIGNING LEGEND CAN BE SEEN ON SHEET 81



SIGNING AND PAVEMENT MARKING PLAN  
STA. 321+00 TO END PROJECT

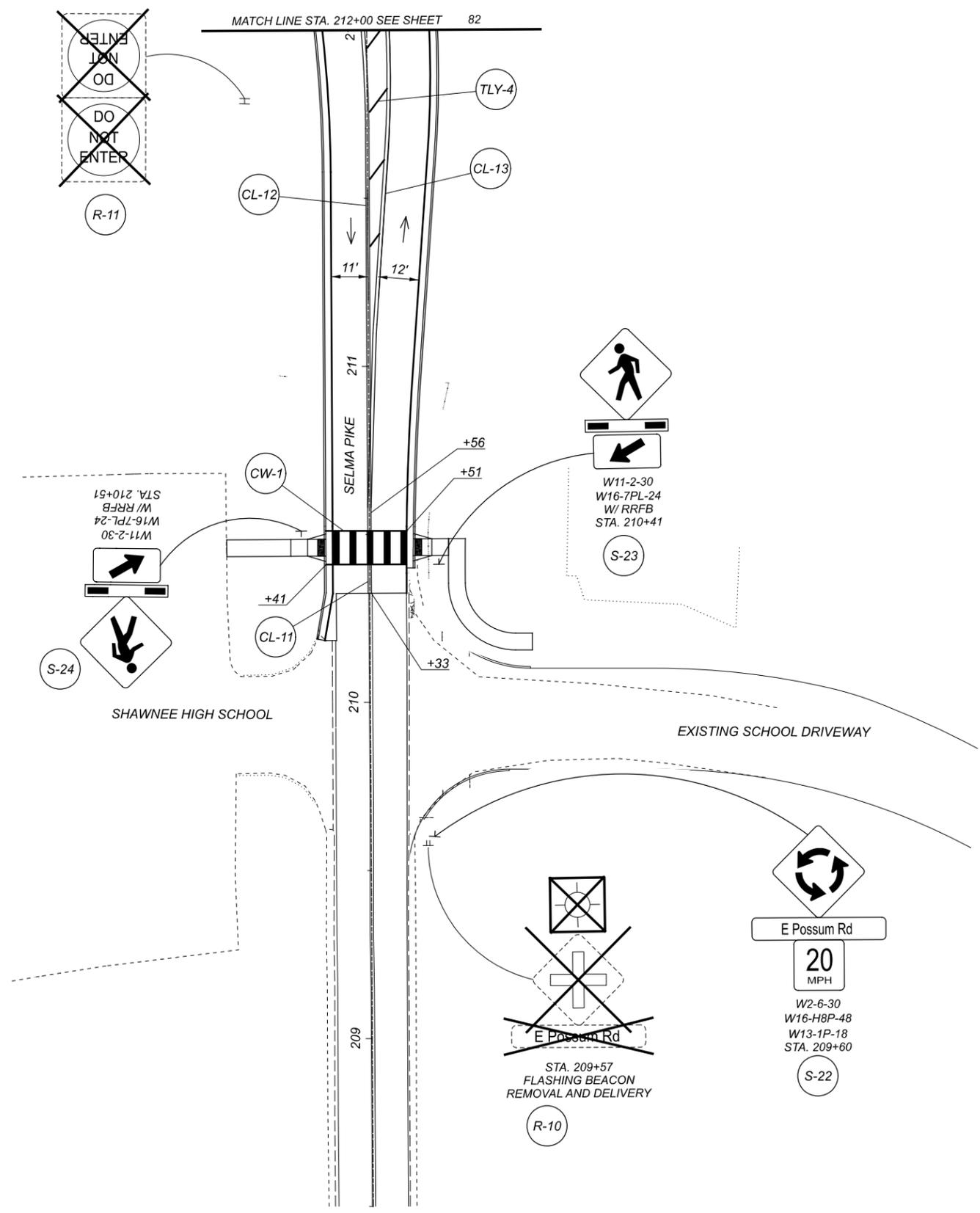
DESIGN AGENCY



DESIGNER	JZM
REVIEWER	EMW 10-01-21
PROJECT ID	109451
SHEET	TOTAL
84	102



SIGNING AND PAVEMENT MARKING PLAN  
BEGIN PROJECT TO STA. 212+00



NOTES

1. PAVEMENT MARKING AND SIGNING LEGEND CAN BE SEEN ON SHEET 81
2. CROSSWALK LAYOUT CAN BE SEEN ON SHEET 78

DESIGN AGENCY

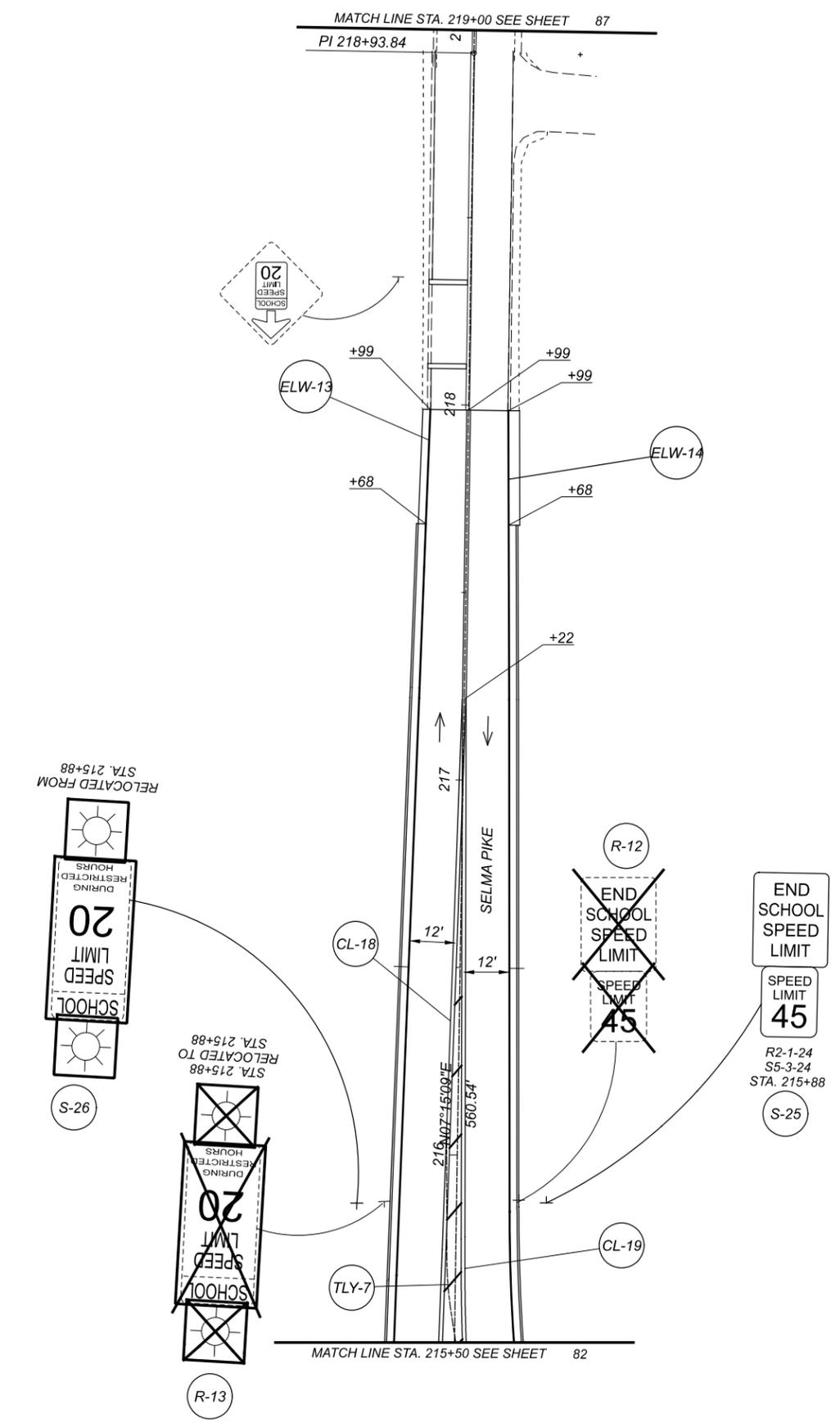


DESIGNER  
JZM

REVIEWER  
EMW 10-01-21

PROJECT ID  
109451

SHEET	TOTAL
85	102

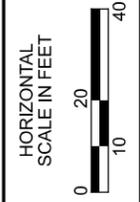
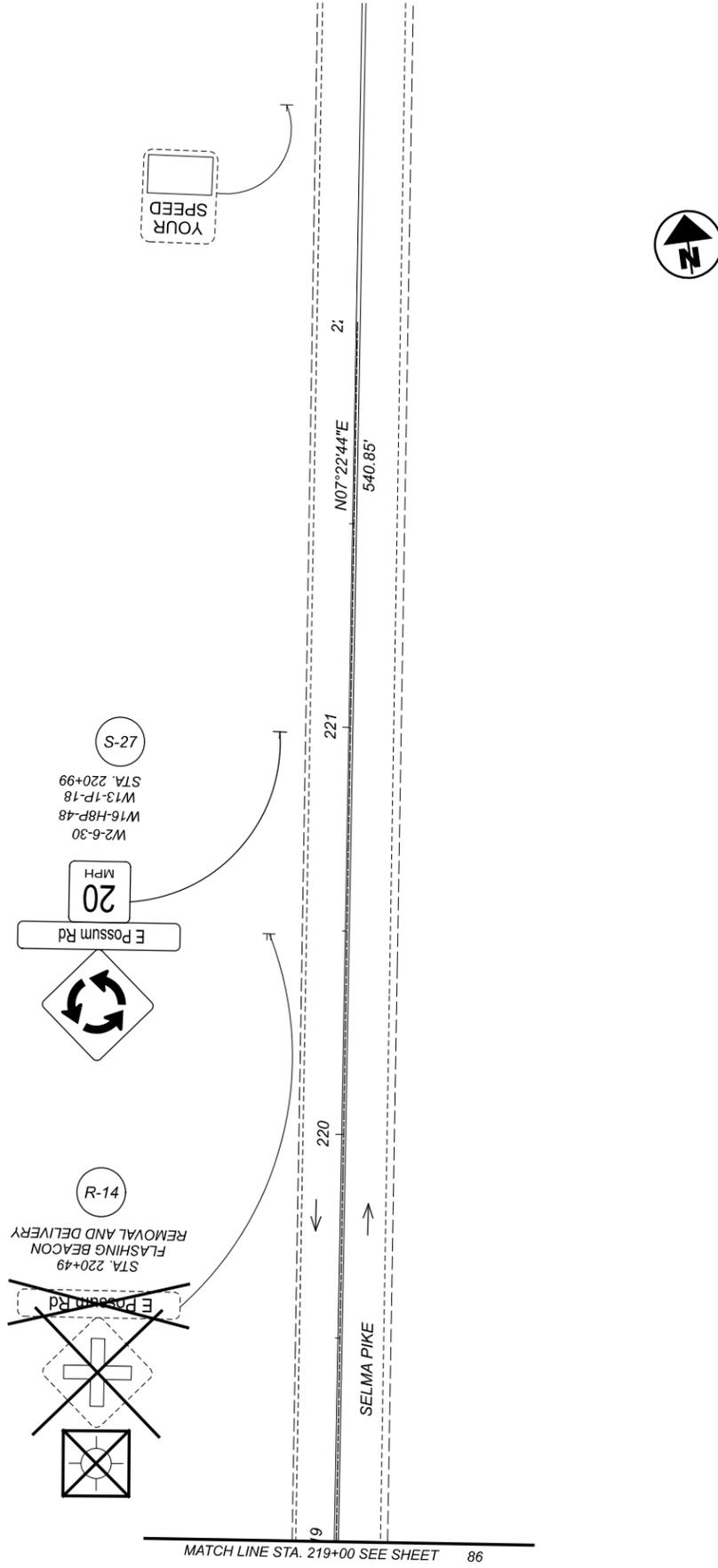


NOTES

1. PAVEMENT MARKING AND SIGNING LEGEND CAN BE SEEN ON SHEET 81

NOTES

1. PAVEMENT MARKING AND SIGNING LEGEND CAN BE SEEN ON SHEET 81



SIGNING AND PAVEMENT MARKING PLAN  
STA. 219+00 TO END PROJECT

DESIGN AGENCY



DESIGNER  
JZM

REVIEWER  
EMW 10-01-21

PROJECT ID  
109451

SHEET	TOTAL
87	102

**625, LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN**

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

LUMINAIRES FOR CONVENTIONAL LIGHTING PROVIDE A SOLID STATE (LED) LUMINAIRE WITH A B-U-G UP-LIGHTING RATING OF U2 OR LESS. THE LUMINAIRE IS INTENDED FOR EXTERNAL ON/OFF CONTROL AND SHALL NOT INCLUDE A PHOTOCCELL SOCKET. ASSURE THE LUMINAIRE HAS A NOMINAL COLOR TEMPERATURE OF 3000K. UNITS SHALL BE 120 VOLTS.

SUPPLY ONE OF THE FOLLOWING LUMINAIRES:

AMERICAN ELECTRIC "AUTOBAHN" SERIES WITH PHOTOMETRIC DISTRIBUTION:  
ATBM P10 MVOLT120 R2 4B 3K, WITH INPUT WATTAGE OF 81W.

GENERAL ELECTRIC "EVOLVE" SERIES WITH PHOTOMETRIC DISTRIBUTION:  
ERLH 0 10 B3 30 GRAY LR, WITH INPUT WATTAGE OF 82W.

COOPER "VERDEON" SERIES WITH PHOTOMETRIC DISTRIBUTION:  
VERD-G-C028-U-T3-7030-10K-4B-AP, WITH INPUT WATTAGE OF 103W.

OR EQUAL AS APPROVED BY THE ENGINEER.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH C&MS ITEM 625, "LUMINAIRE, CONVENTIONAL, AS PER PLAN, SOLID STATE (LED)" FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

**625, 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:

OHIO EDISON  
ATTN: NAT BENOY  
420 YORK STREET  
SPRINGFIELD, OH 45505  
(937)327-1272

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.

ALL METERS, DISCONNECT SWITCHES OR ENCLOSURES, AND OTHER RELATED EQUIPMENT SHALL BE INCIDENTAL TO THE POWER SERVICE, AS PER PLAN ITEM. THE METER BASE IS NOT FURNISHED BY THE POWER COMPANY AND MUST BE FURNISHED AS PART OF THIS BID ITEM. ELECTRICAL PERMITS, INSPECTION AND APPROVAL OF THE POWER SERVICE SHALL BE OBTAINED FROM THE COUNTY ELECTRICAL INSPECTOR. ONCE APPROVED, POWER CONNECTIONS MAY BE ARRANGED BY CONTACTING OHIO EDISON, 1-800-633-4766.

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.

**UNDERGROUND WARNING/MARKING TAPE, AS PER PLAN**

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

UNDERGROUND WARNING/MARKING TAPE SHALL HAVE A METAL BACKING.

PAYMENT WILL BE MADE BY FOOT AT THE UNIT BID PRICE FOR C&MS ITEM 625, "UNDERGROUND WARNING/MARKING TAPE, 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.

DESIGN AGENCY



DESIGNER

STB

REVIEWER

EMW 10-01-21

PROJECT ID

109451

SHEET TOTAL

88 | 102

REF NO.	SHEET NO.	SIDE	STATION TO STATION	ROADWAY	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	632	632	
					CONNECTION, FUSED PULL APART	CONNECTION, UNFUSED PULL APART	CONNECTION, UNFUSED PERMANENT	LIGHT POLE, CONVENTIONAL, ON TRANSFORMER BASE, 32.5' MOUNTING HEIGHT, 8' BRACKET ARM	LIGHT POLE FOUNDATION, 24" X 6' DEEP	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 10 AWG POLE AND BRACKET CABLE	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	CONDUIT, 3", 725.04	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	TRENCH, 24" DEEP	PULL BOX, 725.08, 18"	GROUND ROD	POWER SERVICE, AS PER PLAN	CONTROL CENTER CABINET, COMPLETE	UNDERGROUND WARNING/MARKING TAPE, AS PER PLAN	POWER CABLE, 2 CONDUCTOR, NO. 4 AWG	CONDUIT RISER, 1" DIAMETER
					EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	EACH	FT	EACH	EACH	EACH	EACH	FT	FT	EACH
CC-1	90	RT	216+16.52	SELMA													1	1	1		53	1
S-1	90	RT	210+35.41	SELMA	2	1		1	1		122						1					
S-2	90	LT	211+83.19	SELMA	2	1		1	1		122						1					
S-3	90	RT	212+64.09	SELMA	2	1		1	1		122						1					
S-4	90	LT	213+20.90	SELMA	2	1		1	1		122						1					
S-5	90	RT	214+78.37	SELMA	2	1		1	1		122						1					
S-6	90	LT	215+40.98	SELMA	2	1		1	1		122						1					
P-1	90	RT	311+41.65	E POSSUM	2	1		1	1		122						1					
P-2	90	LT	312+31.33	E POSSUM	2	1		1	1		122						1					
P-3	90	RT	313+77.16	E POSSUM	2	1		1	1		122						1					
P-4	90	RT	314+28.12	E POSSUM	2	1		1	1		122						1					
PB-1	90	RT	211+73.18	SELMA													1					
PB-2	90	LT	211+74.44	SELMA													1					
PB-3	90	RT	314+36.38	E POSSUM													1					
PB-4	90	RT	314+25.14	E POSSUM													1					
PB-5	90	RT	215+27.71	SELMA													1					
PB-6	90	LT	215+27.79	SELMA													1					
PB-7	90	RT	216+03.96	SELMA													1					
C-1	90	RT	215+27.71 TO 216+03.96	SELMA								86										76
C-2	90	BOTH	215+27.71 TO 215+27.79	SELMA						189			53									53
C-3	90	LT	215+27.79 TO 215+40.98	SELMA								23										13
C-4	90	LT	215+27.79 TO 312+31.33	BOTH								120										110
C-5	90	RT	214+78.37 TO 215+27.71	SELMA								60										50
C-6	90	BOTH	214+78.37 TO 314+25.14	BOTH								107										97
C-7	90	LT	314+25.14 TO 314+28.12	E POSSUM								14										4
C-8	90	BOTH	314+25.14 TO 314+36.38	E POSSUM						180			50									50
C-9	90	RT	313+77.16 TO 314+36.38	E POSSUM								74										64
C-10	90	RT	212+64.09 TO 313+77.16	BOTH								113										103
C-11	90	RT	211+73.18 TO 212+64.09	SELMA								101										91
C-12	90	RT	210+35.41 TO 211+73.18	SELMA								148										138
C-13	90	BOTH	211+73.18 TO 211+74.44	SELMA						174			48									48
C-14	90	LT	211+74.44 TO 211+83.19	SELMA								19										9
C-15	90	LT	211+83.19 TO 213+20.90	SELMA								154										144
C-16	90	BOTH	213+20.90 TO 311+41.65	BOTH								146										136
C-17	90	RT	216+03.96 TO 216+16.52	SELMA								28										13
TOTALS CARRIED TO GENERAL SUMMARY					20	10	54	10	10	543	1220	1193	151	10	1199	7	11	1	1	1048	53	1

LIGHTING SUBSUMMARY

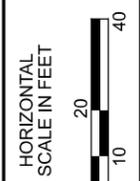
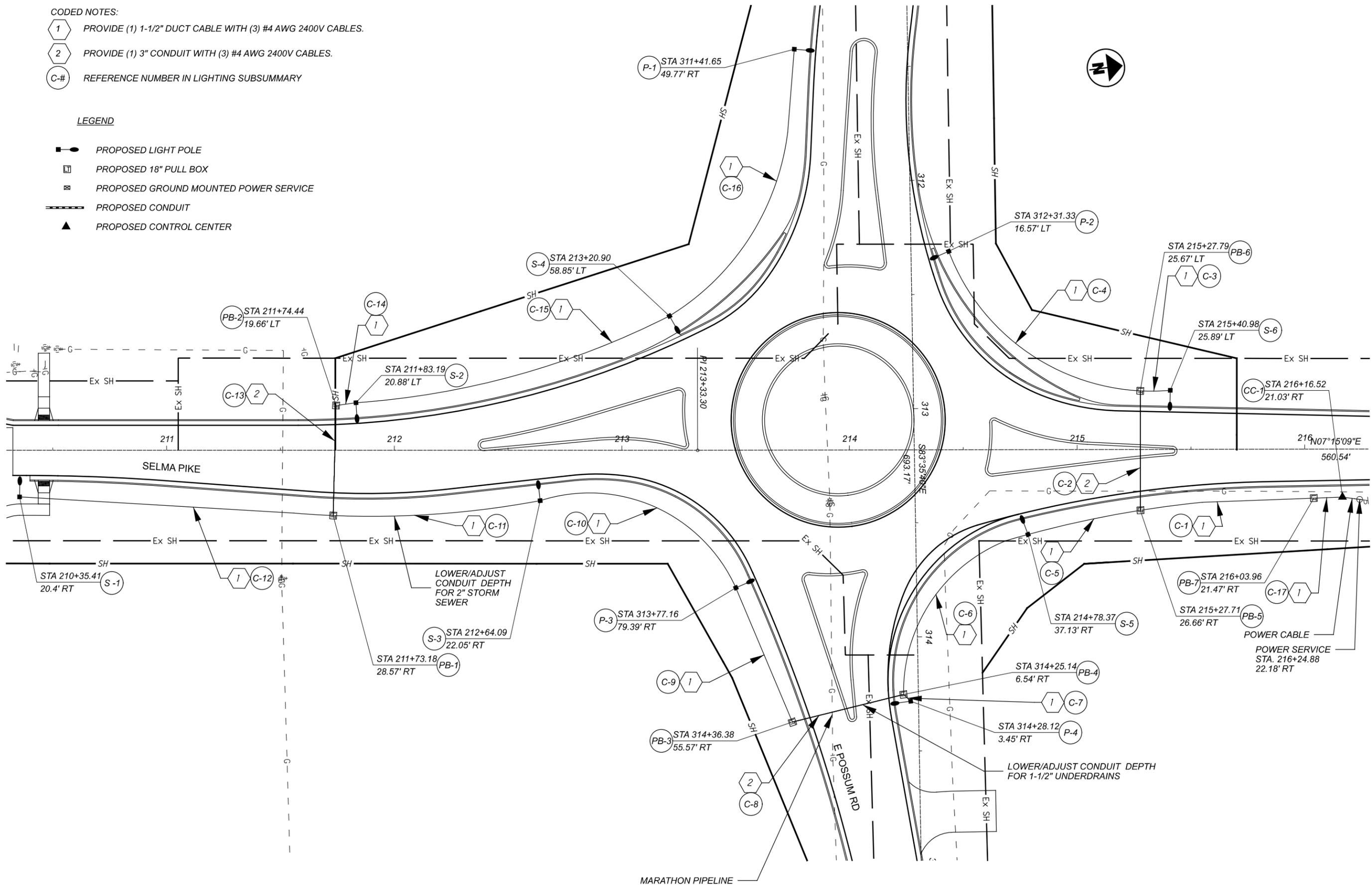
DESIGN AGENCY  
  
 DESIGNER  
 STB  
 REVIEWER  
 EMW 10-01-21  
 PROJECT ID  
 109451  
 SHEET TOTAL  
 89 | 102

**CODED NOTES:**

- 1 PROVIDE (1) 1-1/2" DUCT CABLE WITH (3) #4 AWG 2400V CABLES.
- 2 PROVIDE (1) 3" CONDUIT WITH (3) #4 AWG 2400V CABLES.
- C-# REFERENCE NUMBER IN LIGHTING SUBSUMMARY

**LEGEND**

- PROPOSED LIGHT POLE
- PROPOSED 18" PULL BOX
- PROPOSED GROUND MOUNTED POWER SERVICE
- PROPOSED CONDUIT
- PROPOSED CONTROL CENTER



**LIGHTING PLAN  
SELMA PIKE AT E POSSUM ROAD ROUNDABOUT**

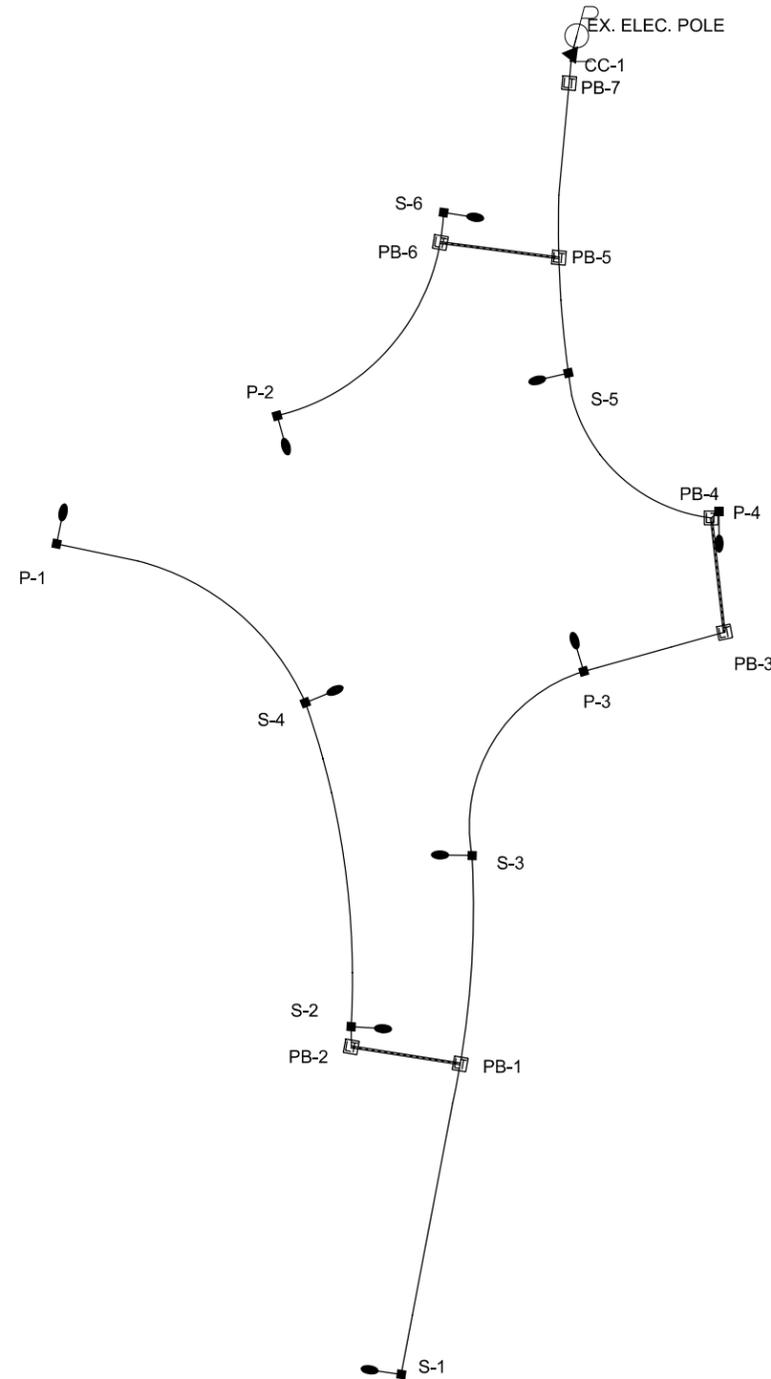
DESIGN AGENCY



DESIGNER	JZM
REVIEWER	EMW 10-01-21
PROJECT ID	109451
SHEET	TOTAL
90	102

**LEGEND**

-  PROPOSED LIGHT POLE
-  PROPOSED 18" PULL BOX
-  PROPOSED GROUND MOUNTED POWER SERVICE
-  EX. POWER POLE



VOLTAGE DROP CALCULATION  
 VOLTAGE: 240V  
 WIRE FACTOR USED (THREE-NO. 4 AWG SERIES): 0.31 OHMS/MFT/1000

Section			Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point
From	To	Design Feet	At Point	Accum.			In Section	Accum.		
P-1	S-4	136	0.56	0.56	76	4	0.05	1.43	0.60	S-4
S-4	S-2	144	0.56	1.12	160	4	0.10	1.38	0.58	S-2
S-2	PB-2	9	0.56	1.67	15	4	0.01	1.28	0.53	PB-2
PB-2	PB-1	48	0.00	1.67	81	4	0.05	1.27	0.53	PB-1
S-1	PB-1	138	0.56	0.56	77	4	0.05	1.27	0.53	PB-1
PB-1	S-3	91	0.00	2.23	204	4	0.13	1.22	0.51	S-3
S-3	P-3	103	0.56	2.79	287	4	0.18	1.10	0.46	P-3
P-3	PB-3	64	0.56	3.35	214	4	0.13	0.92	0.38	PB-3
PB-3	PB-4	50	0.00	3.35	168	4	0.10	0.79	0.33	PB-4
P-4	PB-4	4	0.56	0.56	2	4	0.00	0.68	0.28	PB-4
PB-4	S-5	97	0.00	3.91	379	4	0.23	0.68	0.28	S-5
S-5	PB-5	50	0.56	4.46	223	4	0.14	0.45	0.19	PB-5
P-2	PB-6	110	0.56	0.56	61	4	0.04	0.38	0.16	PB-6
S-5	PB-6	13	0.56	0.56	7	4	0.00	0.35	0.15	PB-6
PB-6	PB-5	53	0.00	1.12	60	4	0.04	0.34	0.14	PB-5
PB-5	PB-7	76	0.00	5.58	424	4	0.26	0.31	0.13	PB-7
PB-7	CC-1	13	0.00	5.58	73	4	0.04	0.04	0.02	CC-1

CONTROL CENTER DATA									
CONTROL CENTER DESIGNATION	LINE VOLTS	CONNECTED LOAD (KVA)	SERVICE ENTRANCE CONDUCTOR SIZE - AWG	ENCLOSURE RATING (AMPS)	CIRCUIT NO.	CIRCUIT LOAD AMPS	CIRCUIT FUSE SIZE AMPS	CIRCUIT CABLE SIZE AWG	MAINTAINING AGENCY
PROPOSED CC-1	240	1.3	4	60	A	5.58	10	4	CLARK COUNTY
					-	-	-	-	
					-	-	-	-	

CLA-CR351-7.92

LIGHTING DETAILS

DESIGN AGENCY



DESIGNER  
STB

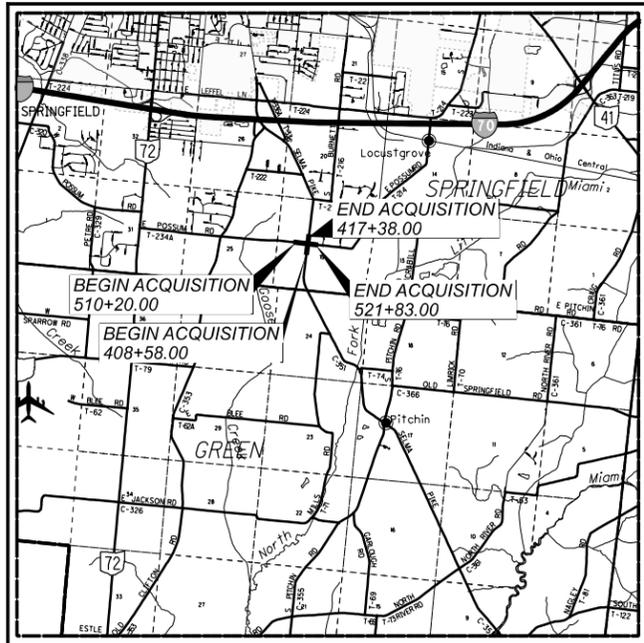
REVIEWER  
EMW 10-01-21

PROJECT ID  
109451

SHEET TOTAL  
91 | 102

# RIGHT OF WAY LEGEND SHEET CLA-CR351-7.92

CLARK COUNTY  
SPRINGFIELD TOWNSHIP  
SEC. 19, T. 5 E., R. 9 N.



LOCATION MAP

LATITUDE: 39°52'16" LONGITUDE: -083°46'43"



**PROJECT DESCRIPTION**

IMPROVEMENT OF 0.14 MILES OF COUNTY ROUTE 351 (SELMA PIKE) AND 0.26 MILES OF TOWNSHIP ROUTE 234 (EAST POSSUM ROAD). CONSTRUCTION OF A SINGLE-LANE MODERN ROUNDABOUT AT THE INTERSECTION OF SELMA PIKE AND EAST POSSUM ROAD.

**PLANS PREPARED BY:**

FIRM NAME: WOOLPERT, INC.  
R/W DESIGNER: TIM CHRISMER  
R/W REVIEWER: CODY SCHNEIDER  
FIELD REVIEWER: AARON EDGE  
PRELIMINARY FIELD REVIEW DATE: 03/16/2021  
TRACINGS FIELD REVIEW DATE: 06/04/2021  
OWNERSHIP UPDATED BY: TIM CHRISMER  
DATE COMPLETED: 05/28/2021  
PLAN COMPLETION DATE: \_\_\_\_\_

RIGHT OF WAY  
LEGEND SHEET

**INDEX OF SHEETS:**

LEGEND SHEET	1
CENTERLINE PLAT	2
PROPERTY MAP	3
SUMMARY OF ADDITIONAL R/W	4
R/W DETAIL	5-11

UTILITY OWNERS			
TYPE	NAME AND ADDRESS	TYPE	NAME AND ADDRESS
TELECOM	AT&T ATTN: HOWARD LAUDERMILK 7201 FAR HILLS AVE DAYTON, OH 45459 937-296-3588	GAS	COLUMBIA GAS OF OHIO ATTN: ALISON GARBASH 2101 W MAIN ST SPRINGFIELD, OH 45504 937-327-7114
TELECOM	CHARTER COMMUNICATION ATTN: CHRIS BOOKSH 3691 TURNER RD DAYTON, OH 45415 937-425-8854	GAS	COLUMBIA GAS TRANSMISSION MAINTAINED BY TC ENERGY ATTN: KAREN MACEJEWSKI 2071 N BECHTLE AVE, SUITE 305 SPRINGFIELD, OH 45504 832-320-5414
SEWER	CITY OF SPRINGFIELD ATTN: BRIAN HINES 2100 LAGONDA AVE SPRINGFIELD, OH 45503 937-525-5800	GAS	MARATHON PIPELINE ATTN: AUSTIN GUYER 10722 E COUNTY ROAD 300 N INDIANAPOLIS, IN 46234 317-473-7441
WATER	CITY OF SPRINGFIELD ATTN: BRIAN HINES 2100 LAGONDA AVE SPRINGFIELD, OH 45503 937-525-5800	ELECTRIC	OHIO EDISON ATTN: NAT BENOY 420 YORK ST SPRINGFIELD, OH 45505 937-327-1272

NOTES: THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE OBTAINED FROM THE OWNER OF THE UTILITIES AS REQUIRED BY SECTION 153.64 O.R.C.

**STRUCTURE KEY**

- RESIDENTIAL
- COMMERCIAL
- OUT-BUILDING

TYPES OF TITLE LEGEND:  
SH = STANDARD HIGHWAY EASEMENT  
T = TEMPORARY CONSTRUCTION EASEMENT

ABBREVIATIONS:  
ATG = ADJUST TO GRADE  
DND = DO NOT DISTURB  
TBR = TO BE REMOVED  
TBRBO = TO BE REMOVED BY OTHERS  
TBRRO = TO BE REMOVED AND RELOCATED

**CONVENTIONAL SYMBOLS**

County Line	-----	Edge of Shoulder (Ex)	-----
Township Line	-----	Edge of Shoulder (Pr)	-----
Section Line	-----	Ditch / Creek (Ex)	-----
Corporation Line	-----	Ditch / Creek (Pr)	-----
Fence Line (Ex)	-----	Tree Line (Ex)	-----
Center Line	-----	Ownership Hook Symbol	Example
Right of Way (Ex)	-----	Property Line Symbol	Example
Right of Way (Pr)	-----	Break Line Symbol	Example
Standard Highway Ease.(Ex)	-----	Tree (Pr)	-----
Standard Highway Ease.(Pr)	-----	Tree (Remove)	-----
Temporary Right of Way	-----	Shrub (Remove)	-----
Channel Ease. (Pr)	-----	Evergreen (Ex)	-----
Utility Ease. (Ex)	-----	Stump	-----
Railroad	-----	Evergreen (Remove)	-----
Guardrail (Ex)	-----	Stump (Remove)	-----
Construction Limits	-----	Wetland (Pr)	-----
Edge of Pavement (Ex)	-----	Grass (Pr)	-----
Edge of Pavement (Pr)	-----	Aerial Target	-----
		Post (Ex)	-----
		Mailbox (Pr)	-----
		Light (Ex)	-----
		Telephone Marker (Ex)	-----
		Fire Hydrant (Ex)	-----
		Water Meter (Ex)	-----
		Water Valve (Ex)	-----
		Utility Valve Unknown (Ex.)	-----
		Telephone Pole (Ex)	-----
		Power Pole (Ex)	-----
		Light Pole (Ex)	-----

I, Cody Schneider, P. S. have conducted a survey of the existing conditions for Clark County, Ohio on April 1, 2020. The results of that survey are contained herein. The horizontal coordinates expressed herein are based on the Ohio State Plane Coordinates System South Zone on NAD 83 (2011) datum. The Project Coordinates (US Survey Feet) are relative to State Plane Grid Coordinates (US Survey Feet) by a Project Adjustment Factor of 1.00007185. As a part of this project I have reestablished the locations of the existing property lines and the existing centerline of Right of Way for property takes contained herein. As a part of this project I have established the proposed property lines, calculated the Gross Take, present roadway occupied (PRO), Net Take and Net Residue; as well as prepared the legal descriptions necessary to acquire the parcels as shown herein. As a part of this work I have set right of way monuments at the property corners, property line intersection, points along the right of way and/or angle points on the right of way, Section Corners and other points as shown herein. All of my work contained herein was conducted in accordance with Ohio Administrative Code 4733-37 commonly known as "Minimum Standards for Boundary Surveys in the State of Ohio" unless noted. The words I and my as used herein are to mean either myself or someone working under my direct supervision.

Cody Schneider, Professional Land Surveyor #8670

Date:

SURVEYORS SEAL



DESIGNER	TMC
REVIEWER	CJS
PROJECT ID	109451
SUBSET	TOTAL
1	11
SHEET	TOTAL
92	102

CLA-CR351-7.92

MODEL: Sheet PAPER SIZE: 11x17 (in.) DATE: 7/23/2021 TIME: 3:17:37 PM USER: Chrismser  
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**MONUMENT LEGEND**

- ☒ EXISTING R/W MONUMENT BOX
- ☒ PROPOSED R/W MONUMENT BOX
- ⊙ EXISTING CONCRETE MONUMENT
- PROPOSED CONCRETE MONUMENT
- ⚡ RAILROAD SPIKE FOUND
- ⚡ RAILROAD SPIKE SET
- ⊙ I.P.F. IRON PIN FOUND
- ⊙ I.P.F. IRON PIN FOUND W/ ID CAP
- I.P.S. IRON PIN SET W/ ID CAP
- ⊙ I.P.F. IRON PIPE FOUND
- ⊙ I.P.S. IRON PIPE SET
- ⊙ P.K.F. P.K. NAIL FOUND
- P.K.S. P.K. NAIL SET

**BASIS FOR BEARINGS:**

ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY AND ARE DERIVED FROM THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD83 (2011), SCALED TO GROUND BY 1.00007185 ABOUT THE PROJECTION ORIGIN (0,0), AS ESTABLISHED BY MULTIPLE GPS OBSERVATIONS PROCESSED USING THE NATIONAL GEODETIC SURVEY ONLINE POSITIONING USER SERVICE (NGS OPUS). THE EXISTING CENTERLINE OF RIGHT OF WAY OF COUNTY ROAD 351, BEING N07°23'01"E, IS DESIGNATED THE "BASIS OF BEARING" FOR THIS SURVEY.

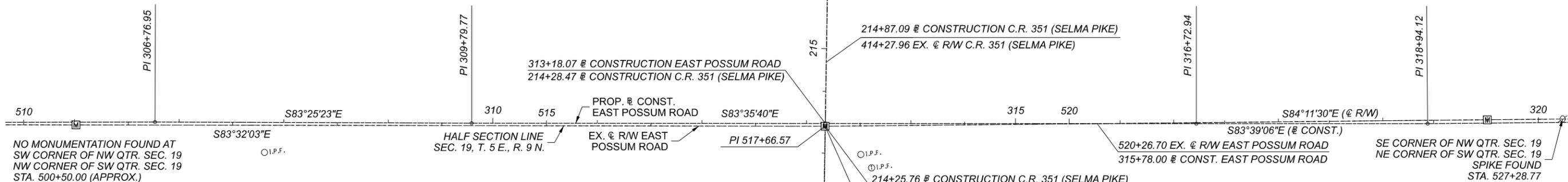
**CLARK COUNTY  
 SPRINGFIELD TOWNSHIP  
 SEC. 19, T. 5 E., R. 9 N.**



NOTE: THE EXISTING R/W WIDTH (60' FOR C.R. 351, 40' FOR EAST POSSUM ROAD) AND LOCATION WERE DETERMINED USING SURVEYS 6-1348, 7-1601, 11-250, 23-60, AND 25-189 IN THE RECORDS OF THE CLARK COUNTY ENGINEER'S OFFICE, AND GARY W. SHAFFER PLAT AS RECORDED IN PLAT BOOK 15, PAGE 152 IN THE RECORDS OF THE CLARK COUNTY RECORDER'S OFFICE, AND THE CLARK COUNTY ROAD RECORDS VOL. 2, PAGE 154 AND VOL. 3, PAGE 322.



CENTERLINE PLAT



MONUMENTS TO BE SET								
C/L OF EX. R/W			PROJECT COORDINATES SEE SURVEY CERTIFICATION		MONUMENTS TO BE SET DURING CONSTRUCTION		R/W MON. EXPECTED TO BE DISTURBED	DESCRIPTION
STATION	OFFSET	BASELINE	NORTH (Y)	EAST (X)	MON. ASSY.	REF. MON.	R/W MON.	DESCRIPTION
413+66.64	0.00' RT.	COUNTY ROAD 351	684,018.28	1,609,607.73	1			CENTERLINE INTERSECTION
517+66.57	0.00' RT.	EAST POSSUM ROAD	"	"				"
409+00.00	0.00' RT.	COUNTY ROAD 351	683,564.46	1,609,549.49	1			CENTERLINE
417+00.00	0.00' RT.	COUNTY ROAD 351	684,353.30	1,609,651.72	1			CENTERLINE
510+50.00	0.00' RT.	EAST POSSUM ROAD	684,107.98	1,608,896.98	1			CENTERLINE
524+00.00	0.00' RT.	EAST POSSUM ROAD	683,963.13	1,610,239.64	1			CENTERLINE
409+02.00	50.00' RT.	COUNTY ROAD 351	683,560.02	1,609,593.34			1	IP SET WITHIN CONST. LIMITS
411+15.00	0.00' RT.	COUNTY ROAD 351	683,777.68	1,609,577.12			1	MAG NAIL SET ON CENTERLINE
411+15.00	40.00' LT.	COUNTY ROAD 351	683,782.82	1,609,537.46			1	IP SET WITHIN CONST. LIMITS
415+11.00	0.00' RT.	COUNTY ROAD 351	684,170.40	1,609,628.01			1	MAG NAIL SET ON CENTERLINE
415+11.00	40.00' LT.	COUNTY ROAD 351	684,175.54	1,609,588.35			1	IP SET WITHIN CONST. LIMITS
416+11.08	0.00' RT.	COUNTY ROAD 351	684,269.65	1,609,640.88			1	MAG NAIL SET ON CENTERLINE
513+11.00	0.00' RT.	EAST POSSUM ROAD	684,078.53	1,609,156.79			1	MAG NAIL SET ON CENTERLINE
519+88.58	0.00' LT.	EAST POSSUM ROAD	684,004.76	1,609,830.32			1	MAG NAIL SET ON CENTERLINE
519+88.58	30.00' LT.	EAST POSSUM ROAD	684,034.61	1,609,833.36			1	IP SET WITHIN CONST. LIMITS
519+96.00	30.00' RT.	EAST POSSUM ROAD	683,974.16	1,609,834.68			1	IP SET WITHIN CONST. LIMITS
521+43.58	0.00' LT.	EAST POSSUM ROAD	683,989.08	1,609,984.53			1	MAG NAIL SET ON CENTERLINE
521+83.00	0.00' RT.	EAST POSSUM ROAD	683,985.09	1,610,023.75			1	MAG NAIL SET ON CENTERLINE
526+38.69	0.34' LT.	EAST POSSUM ROAD	683,939.31	1,610,477.14			1	FOUND SPIKE ON CENTERLINE
527+28.76	0.26' LT.	EAST POSSUM ROAD	683,930.10	1,610,566.74			1	FOUND SPIKE ON CENTERLINE
TOTAL CARRIED TO GENERAL SUMMARY SHEET					5		14	

EXISTING BOUNDARY MONUMENTS FOUND						
NAME	STATION	OFFSET	CENTERLINE	NORTH (Y)	EAST (X)	DESCRIPTION
702	413+27.72	45.14' RT.	COUNTY ROAD 351	683,982.83	1,609,649.22	IRON PIN FOUND
703	506+91.37	20.89' RT.	EAST POSSUM ROAD	684,127.55	1,608,538.74	IRON PIN FOUND
704	400+56.48	29.97' RT.	COUNTY ROAD 351	682,724.09	1,609,470.82	IRON PIN FOUND
708	402+56.55	30.02' RT.	COUNTY ROAD 351	682,922.49	1,609,496.58	IRON PIN FOUND
80001	526+38.69	0.34' LT.	EAST POSSUM ROAD	683,939.31	1,610,477.14	SPIKE FOUND
80009	527+28.76	0.26' LT.	EAST POSSUM ROAD	683,930.10	1,610,566.74	SPIKE FOUND

I, Cody Schneider, P. S. have conducted a survey of the existing conditions for Clark County, Ohio on April 1, 2020. The results of that survey are contained herein. The horizontal coordinates expressed herein are based on the Ohio State Plane Coordinate System South Zone on NAD 83 (2011) datum. The Project Coordinates (US Survey Feet) are relative to State Plane Grid Coordinates (US Survey Feet) by a Project Adjustment Factor of 1.00007185. As a part of this project I have reestablished the locations of the existing property lines and the existing centerline of Right of Way for property takes contained herein. As a part of this project I have established the proposed property lines, calculated the Gross Take, present roadway occupied (PRO), Net Take and Net Residue; as well as prepared the legal descriptions necessary to acquire the parcels as shown herein. As a part of this work I have set right of way monuments at the property corners, property line intersection, points along the right of way and/or angle points on the right of way. Section Corners and other points as shown herein. All of my work contained herein was conducted in accordance with Ohio Administrative Code 4733-37 commonly known as "Minimum Standards for Boundary Surveys in the State of Ohio" unless noted. The words I and my as used herein are to mean either myself or someone working under my direct supervision.

Cody Schneider, Professional Land Surveyor #8670 Date: \_\_\_\_\_

SETTING OF ALL MONUMENTS SHALL BE PERFORMED BY A SURVEYOR REGISTERED IN THE STATE OF OHIO. THE MONUMENT ASSEMBLIES AND REFERENCE MONUMENTS WILL BE INSTALLED BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION. THE IRON PIN AND CAP (WHEN REQUIRED) ARE TO BE INSTALLED BY THE CONTRACTOR'S SURVEYOR.

CHANGES OR ALTERATIONS TO THE LOCATION OF ANY MONUMENTS SHOWN IN THIS TABLE, REQUIRE PRIOR APPROVAL FROM THE DISTRICT REAL ESTATE ADMINISTRATOR OF THE OHIO DEPARTMENT OF TRANSPORTATION. IN THE EVENT THAT CHANGES OR ALTERATIONS ARE APPROVED, A REVISED CENTERLINE PLAT WITH THE NEW LOCATIONS SHALL BE RECORDED IN THE APPLICABLE COUNTY RECORDS AND THE OHIO DEPARTMENT OF TRANSPORTATION. SPECIFICATIONS FOR MONUMENT ASSEMBLIES, REFERENCE MONUMENTS AND RIGHT OF WAY MONUMENTS ARE SHOWN ON STANDARD CONSTRUCTION DRAWING RM-1.1.

RECEIVED \_\_\_\_\_, 20 \_\_\_\_  
 RECORDED \_\_\_\_\_, 20 \_\_\_\_  
 BOOK \_\_\_\_\_ PAGE \_\_\_\_\_  
 COUNTY RECORDER

SURVEYORS SEAL

DESIGN AGENCY  
**WOOLPERT**  
 ONE EASTON OVAL  
 SUITE 400  
 COLUMBUS, OH 43219  
 T 614-476-6000

DESIGNER  
**TMC**

REVIEWER  
**CJS 06-25-21**

PROJECT ID  
**109451**

SUBSET	TOTAL
2	11

SHEET	TOTAL
93	102



**TOTAL NUMBER OF :**

5 OWNERSHIPS      0 TOTAL TAKES  
 10 PARCELS      0 OWNERSHIPS W/ STRUCTURES INVOLVED

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE  
 NET TAKE = GROSS TAKE - PRO IN TAKE  
 (c) = CALCULATED AREA

**GRANTEE:**

ALL RIGHT OF WAY ACQUIRED IN THE NAME OF  
BOARD OF COUNTY COMMISSIONERS, CLARK COUNTY, OHIO  
 UNLESS OTHERWISE SHOWN.

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD		AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUC-TURE	NET RESIDUE		TYPE FUND	REMARKS	AS ACQUIRED	
			O.R.	PAGE								LEFT	RIGHT			BOOK	PAGE
1-9	NOT USED																
10-SH	BOARD OF EDUCATION OF THE SPRINGFIELD LOCAL SCHOOL DISTRICT	5,6,9	DV 482	67	300-07-019-000-023	27.700	1.423	0.885	0.436	0.449		25.828		FEDERAL			
10-T		5,6						0.069	0.000	0.069					SIDEWALK CONSTRUCTION & GRADING		
11-SH	A & T FARM, LLC	6,8,9	2130	2290	300-07-025-000-065	57.275	1.593	0.816	0.471	0.345		55.337					
11-T1		6,7						0.028	0.000	0.028					GRADING		
11-T2		7						0.005	0.000	0.005					GRADING		
								TOTAL	0.033	0.000	0.033						
12-SH	BOARD OF EDUCATION OF THE CLARK SHAWNEE LOCAL SCHOOL DISTRICT	5,6,10	2176	5260	300-07-019-000-110	99.429	2.818	1.003	0.631	0.372							
12-T1		5,6						0.193	0.000	0.193					GRADING		
12-T2		6,10						0.057	0.000	0.057					GRADING		
								TOTAL	0.250	0.000	0.250						
13-SH	GREGORY T. SMITH & TERESA SMITH	6,10	1767	1978	300-07-019-000-090	1.706	0.439	0.400	0.349	0.051				1.216	3 TREES TBR		
13-T		6,10						0.037	0.000	0.037					GRADING & RECONSTRUCT DRIVEWAY		
14-SH	PAUL C. HOWELL & CLAUDIA L. HOWELL	10	1392	2639	300-07-019-000-077	1.217	0.107	0.160	0.107	0.053				1.057			
15	CHRISTOPHER L. ANDORFER SR. & KENYA ANDORFER	10	2167	4308	300-07-019-100-003	1.110 (c)	0.000								NO ADDITIONAL R/W REQUIRED		
16	NATHAN KROUSE & MALLORY KROUSE	10	2159	898	300-07-019-100-004	1.180	0.000								NO ADDITIONAL R/W REQUIRED		
17	TOR J. LANGEHAUG & SABRINA LANGEHAUG	11	2159	4621	300-07-019-100-005	0.910	0.000								NO ADDITIONAL R/W REQUIRED		
18	TRAVIS SPARKS & MEGAN SPARKS	11	2155	311	300-07-019-101-006	0.970	0.000								NO ADDITIONAL R/W REQUIRED		
19	ROBERT E. HARLEY, TRUSTEE	11	237	169	300-07-019-000-025	0.310	0.000							FEDERAL	NO ADDITIONAL R/W REQUIRED		

SUMMARY OF ADDITIONAL RIGHT OF WAY

CLA-CR351-7.92

MODEL: Sheet PAPER SIZE: 17x11 (in.) DATE: 7/23/2021 TIME: 3:16:22 PM USER: Chrismier  
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TYPES OF TITLE LEGEND:  
 SH = STANDARD HIGHWAY EASEMENT  
 T = TEMPORARY CONSTRUCTION EASEMENT

NOTE: ALL TEMPORARY PARCELS TO BE OF 24 MONTH DURATION.

NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

REV. BY	DATE	DESCRIPTION
FIELD REVIEW BY	DATE:	
OWNERSHIP VERIFIED BY	DATE:	
DATE COMPLETED		

DESIGN AGENCY



ONE EASTON OVAL  
 SUITE 400  
 COLUMBUS, OH 43219  
 T 614-476-6000

DESIGNER  
**TMC**

REVIEWER  
 CJS 06-25-21

PROJECT ID  
 109451

SUBSET	TOTAL
4	11
SHEET	TOTAL
95	102





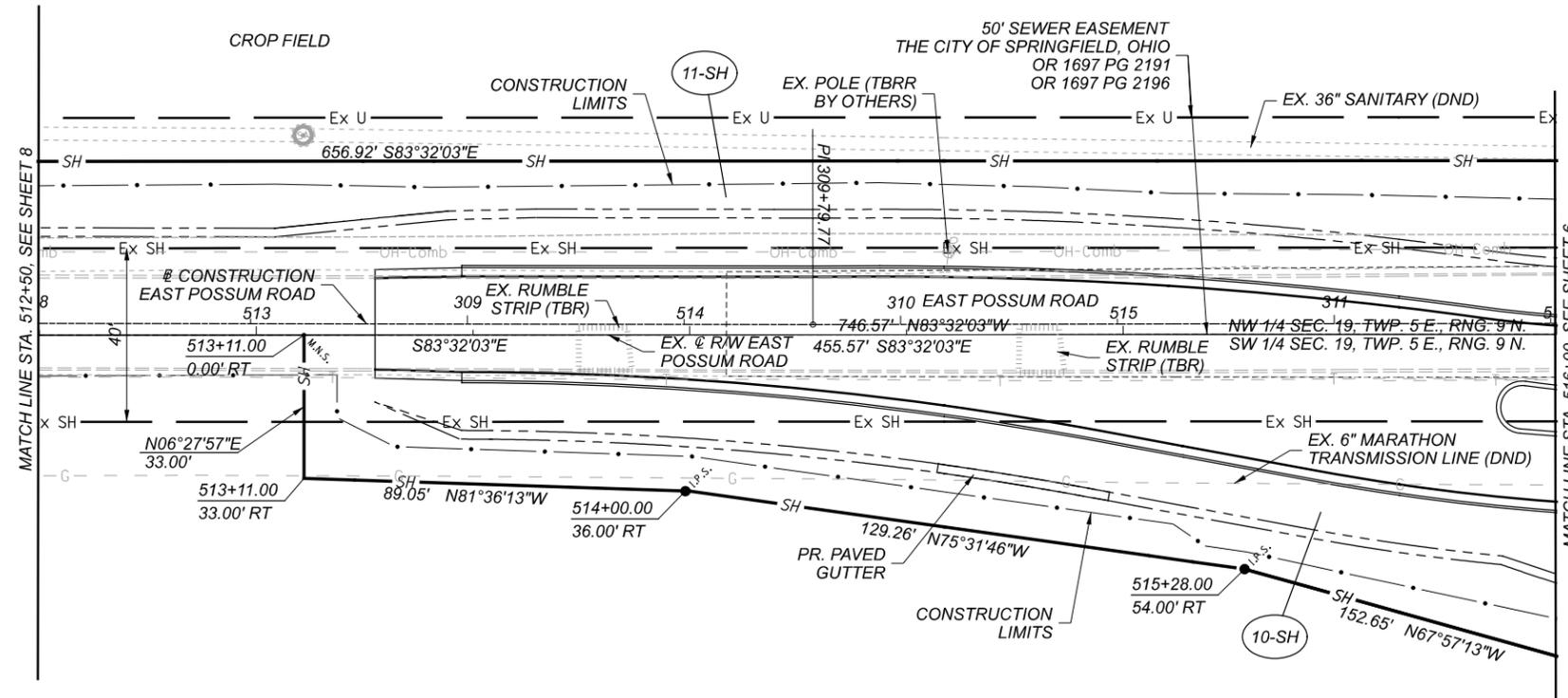




CLARK COUNTY  
 SPRINGFIELD TOWNSHIP  
 SEC. 19, T. 5 E., R. 9 N.



11  
 A & T FARM, LLC  
 EAST POSSUM ROAD  
 SPRINGFIELD, OHIO 45502  
 OR 2130 PG 2290  
 57.275 ACRES  
 PID 300-07-00025-000-065  
 CULTIVATED



10  
 BOARD OF EDUCATION OF  
 SPRINGFIELD LOCAL SCHOOL DISTRICT  
 1675 EAST POSSUM ROAD  
 SPRINGFIELD, OHIO 45502  
 DV 482 PG 67  
 27.700 ACRES  
 PID 300-07-00019-000-023  
 SCHOOL



RIGHT OF WAY DETAIL SHEET  
 STA. 512+50 TO STA. 516+00

CLA-CR351-7.92

MODEL: 109451\_RW-4 PAPER SIZE: ITXII (in.) DATE: 7/23/2021 TIME: 3:19:42 PM USER: Chrismier  
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DESIGN AGENCY	WOOLPERT	
DESIGNER	TMC	
REVIEWER	CJS 06-25-21	
PROJECT ID	109451	
SUBSET	9	TOTAL 11
SHEET	100	TOTAL 102
REV. BY	DATE	DESCRIPTION
DATE COMPLETED		



