

LOCATION MAP

LATITUDE: 39°17'45" LONGITUDE: -84°19'17"



PORTION TO BE IMPROVED _____

DESIGN DESIGNATION

	WILKENS BLVD.	BARDES RD.
CURRENT ADT (2018)	5600	
DESIGN YEAR ADT (2038)	8323	
DESIGN HOURLY VOLUME (2038)	999	
DIRECTIONAL DISTRIBUTION	50%	50%
TRUCKS (24 HOUR B&C)	2%	
DESIGN SPEED	45 MPH	25 MPH
LEGAL SPEED	45 MPH	25 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	LOCAL ROAD	
NHS PROJECT	N/A	

DESIGN EXCEPTIONS

NONE REQUIRED

WILKENS BLVD. (C.R. 610) & BARDES ROAD (T.R. 454) ROUNDABOUT IMPROVEMENTS PART 2

WARREN COUNTY & DEERFIELD TOWNSHIP
 SECTION 32, TOWNSHIP 4, ENTIRE RANGE 2

FOR PART 1, SEE
 FIELDS ERTEL RD. (HAM/WAR CR 4/CR 1-2.93)
 SNIDER RD. (HAM/WAR CR 277/CR 58)

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RIGHT OF WAY PLANS	UNNUMBERED

PROJECT DESCRIPTION

ROAD IMPROVEMENTS TO BE PERFORMED IN THE AREA BOUNDED BY FIELDS ERTEL RD., WILKENS BLVD., BARDES RD., AND MASON-MONTGOMERY RD. WORK INCLUDES ROADWAY WIDENING AND INTERSECTION CONVERSION TO A ROUNDABOUT AT THE WILKENS BLVD. INTERSECTION WITH BARDES ROAD.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	3.09 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	2.13 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	5.63 ACRES

2023 SPECIFICATIONS

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

TRAFFIC REROUTED MAJORITY OF TIME

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE ROADWAYS, AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON THE PLANS.

UNDERGROUND UTILITIES
 Contact Two Working Days
 Before You Dig

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

ENGINEER'S SEAL:

Digitally signed by Andrew Schetter - ODOT Plan Signature
 Date: 2024.01.31 16:10:40-05'00'

STANDARD CONSTRUCTION DRAWINGS								SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-1.1	7/28/00	DM-1.2	7/16/21	HW-2.1	7/15/22	MT-95.31	7/19/19	800-2019 See Proposal	
BP-2.1	1/21/22	DM-1.3	7/18/14	HW-2.2	7/20/18	MT-95.61	4/19/19	832 7/21/23	
BP-2.2	1/15/21	DM-2.1	1/18/13			MT-101.60	4/21/23		
BP-2.3	7/18/14	DM-4.2	7/20/12			MT-101.90	7/17/20		
BP-3.1	1/21/22					MT-105.10	1/17/20		
		BP-4.1	7/19/13						
CB-2-2A	1/20/23	BP-5.1	7/15/22	HL-20.11	7/21/23				
CB-3	7/16/21	BP-7.1	7/21/23	HL-30.11	7/21/23	TC-41.20	10/18/13		
CB-3A	7/16/21			HL-30.22	1/15/21	TC-41.30	4/21/23		
		MGS-2.1	1/19/18			TC-41.40	10/18/13		
MH-3	7/21/23	MGS-4.2	7/19/13			TC-42.20	10/18/13		
						TC-71.10	4/21/23		

WARREN COUNTY APPROVALS

SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE DESIGN ENGINEER PREPARING THE PLANS. APPROVAL ON THE PART OF THE WARREN COUNTY ENGINEER'S OFFICE IS GIVEN FOR WORK WITHIN WARREN COUNTY R/W ONLY.

Neil F. Tunison

WC/TID SECRETARY-TREASURER
 NEIL F. TUNISON, P.E., P.S.

2/1/24
 DATE

DESIGN AGENCY



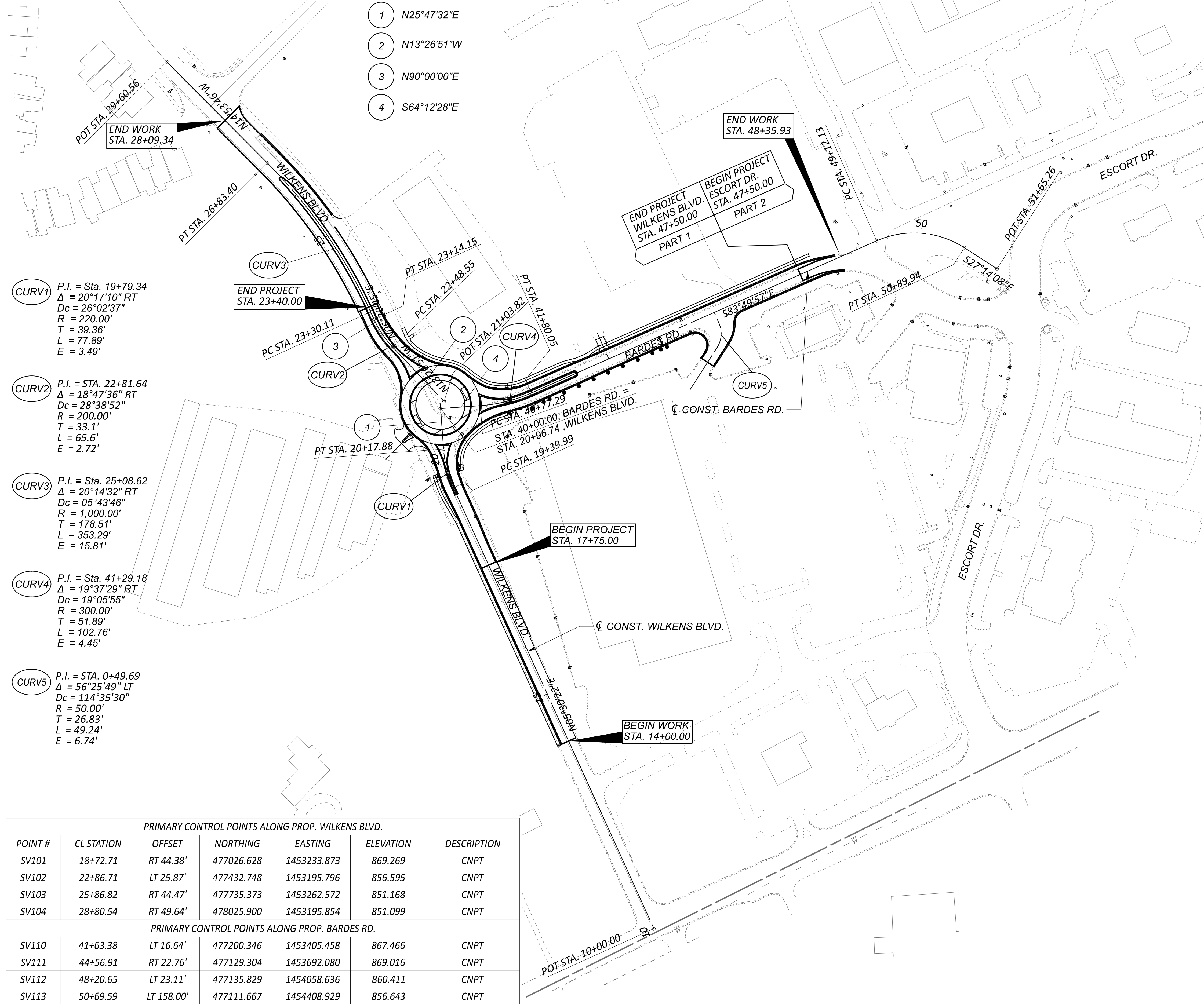
WSP USA, Inc.
 312 Elm Street,
 Suite 2500
 Cincinnati, OH 45202

DESIGNER
 ELK

REVIEWER
 ABS 01-30-24

PROJECT ID
 29076

SHEET TOTAL
 1 76



- 1 N25°47'32"E
- 2 N13°26'51"W
- 3 N90°00'00"E
- 4 S64°12'28"E

- CURV1**
 P.I. = Sta. 19+79.34
 $\Delta = 20^\circ 17' 10''$ RT
 Dc = 26°02'37"
 R = 220.00'
 T = 39.36'
 L = 77.89'
 E = 3.49'
- CURV2**
 P.I. = STA. 22+81.64
 $\Delta = 18^\circ 47' 36''$ RT
 Dc = 28°38'52"
 R = 200.00'
 T = 33.1'
 L = 65.6'
 E = 2.72'
- CURV3**
 P.I. = Sta. 25+08.62
 $\Delta = 20^\circ 14' 32''$ RT
 Dc = 05°43'46"
 R = 1,000.00'
 T = 178.51'
 L = 353.29'
 E = 15.81'
- CURV4**
 P.I. = Sta. 41+29.18
 $\Delta = 19^\circ 37' 29''$ RT
 Dc = 19°05'55"
 R = 300.00'
 T = 51.89'
 L = 102.76'
 E = 4.45'
- CURV5**
 P.I. = STA. 0+49.69
 $\Delta = 56^\circ 25' 49''$ LT
 Dc = 114°35'30"
 R = 50.00'
 T = 26.83'
 L = 49.24'
 E = 6.74'

PRIMARY CONTROL POINTS ALONG PROP. WILKENS BLVD.						
POINT #	CL STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
SV101	18+72.71	RT 44.38'	477026.628	1453233.873	869.269	CNPT
SV102	22+86.71	LT 25.87'	477432.748	1453195.796	856.595	CNPT
SV103	25+86.82	RT 44.47'	477735.373	1453262.572	851.168	CNPT
SV104	28+80.54	RT 49.64'	478025.900	1453195.854	851.099	CNPT
PRIMARY CONTROL POINTS ALONG PROP. BARDES RD.						
SV110	41+63.38	LT 16.64'	477200.346	1453405.458	867.466	CNPT
SV111	44+56.91	RT 22.76'	477129.304	1453692.080	869.016	CNPT
SV112	48+20.65	LT 23.11'	477135.829	1454058.636	860.411	CNPT
SV113	50+69.59	LT 158.00'	477111.667	1454408.929	856.643	CNPT

GEOMETRY POINT	GROUND COORDINATES U.S. SURVEY FEET	
	NORTHING	EASTING
CONST. WILKENS BLVD. (S)		
POT STA. 10+00.00	476162.198	1453105.961
PC STA. 19+39.99	477097.846	1453196.156
PI STA. 19+79.34	477136.474	1453203.406
PT STA. 20+17.88	477172.461	1453217.058
POT STA. 21+03.82	477249.837	1453254.450
CONST. WILKENS BLVD. (N)		
POT STA. 21+03.82	477255.818	1453268.206
PC STA. 21+93.47	477338.036	1453232.460
PI STA. 22+37.99	477380.790	1453220.581
PT STA. 22+80.30	477422.981	1453220.595
PC STA. 23+31.74	477473.963	1453227.394
PI STA. 25+10.24	477652.227	1453228.116
PT STA. 26+85.03	477824.200	1453198.137
POT STA. 29+62.18	478092.038	1453126.890
CONST. BARDES RD.		
POT STA. 40+00.00	477243.462	1453251.369
PC STA. 40+77.29	477209.831	1453320.963
PI STA. 41+29.18	477191.397	1453369.395
PT STA. 41+80.05	477181.680	1453419.265
PC STA. 49+12.13	477103.028	1454147.111
PI STA. 50+09.05	477067.791	1454236.143
PT STA. 50+89.94	477006.447	1454287.816
POT STA. 51+65.26	476939.475	1454322.287



SCHEMATIC PLAN

DESIGN AGENCY

 WSP USA, Inc.
 312 Elm Street,
 Suite 2500
 Cincinnati, OH 45202

DESIGNER
 ELK

REVIEWER
 ABS 01/30/24

PROJECT ID
 29076

SHEET TOTAL
 2 76

REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	Dc	Δ	T (FT.)	L (FT.)	R (FT.)	BEGIN CURVE	END CURVE
WNL	100+28.91	477349.8393	1453234.6517	49°49'21"	28°13'29"	28.91	56.65	115.00	100+00.00	100+56.65
WNW	110+45.08	477333.7463	1453224.1050	63°39'43"	53°12'57"	45.08	83.59	90.00	110+00.00	110+83.59

REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	Dc	Δ	T (FT.)	L (FT.)	R (FT.)	BEGIN CURVE	END CURVE
WEL	60+36.97	477201.4264	1453350.3494	60°18'41"	42°31'30"	36.97	70.51	95.00	60+00.00	60+70.51
WNE_E	70+17.54	477260.2416	1453332.7353	28°38'52"	10°01'36"	17.55	35.00	200.00	70+00.00	70+35.00
	70+46.08	477235.5605	1453347.2349	81°51'4"	17°59'22"	11.08	21.98	70.00	70+35.00	70+56.98
	70+90.46	477205.9890	1453380.5686	52°5'13"	33°51'24"	33.48	65.00	110.00	70+56.98	71+21.98
WNE_N	80+51.94	477342.3862	1453262.2752	38°11'50"	38°11'50"	51.94	100.00	150.00	80+00.00	81+00.00
	81+41.57	477433.5127	1453241.2881	22°02'13"	18°10'10"	41.57	82.45	260.00	81+00.00	81+82.45

ROUNDAABOUT CRITICAL DESIGN PARAMETERS

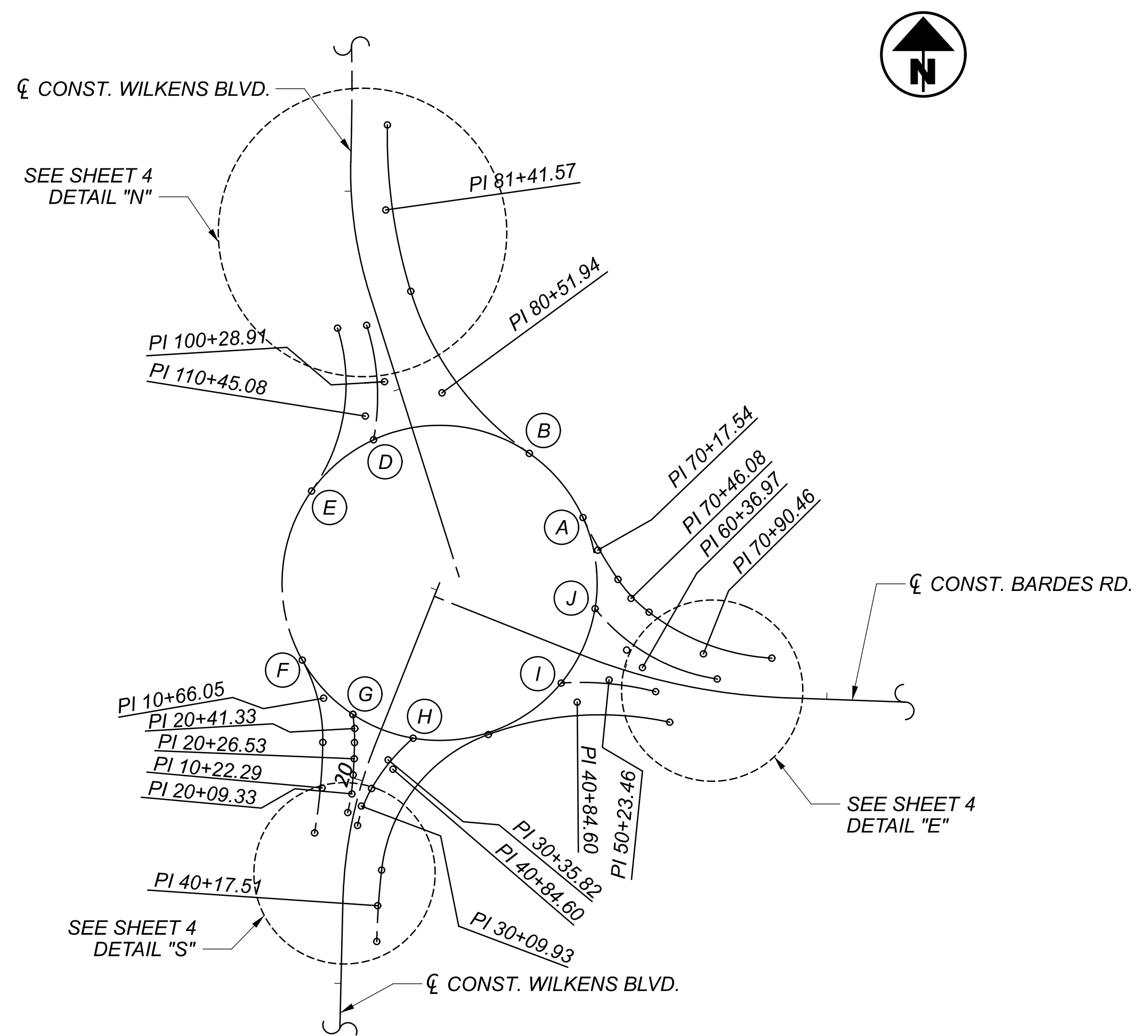
DESIGN PARAMETERS	North Leg	South Leg	East Leg	West Leg
Approach Width, FT	14	14	13	n/a
Entry Width, FT	17	17.5	17.5	n/a
Entry Angle, PHI φ, DEG	30.7	13.2	24.0	n/a
Inscribed Circle Diameter, FT	158	158	158	n/a
Exit Width, FT	15.0	15.5	16.5	n/a
Circulating Roadway Width Upstream of Entry, FT	17.5	17.5	17.5	n/a

FASTESTSPEED PATH									
R1, Radius/Speed, FT/MPH	117.4	21.7	107.1	20.9	n/a	n/a	n/a	n/a	n/a
R2, Radius/Speed, FT/MPH	106.9	20.9	66.0	17.3	n/a	n/a	n/a	n/a	n/a
R3, Radius/Speed, FT/MPH	255.6	29.3	243.2	28.7	n/a	n/a	n/a </td <td>n/a</td> <td>n/a</td>	n/a	n/a
R4, Radius/Speed, FT/MPH	64.5	17.2	n/a	n/a	64.5	17.2	n/a	n/a	n/a
R5, Radius/Speed, FT/MPH	n/a	n/a	146.5	23.6	106.1	20.8	n/a	n/a	n/a
Bypass R5, Radius/Speed, Ft/MPH	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

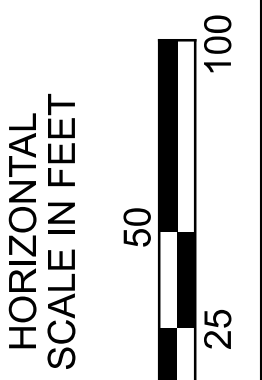
MINIMUM SIGHT PARAMETERS						
Approach Design Speed, MPH	45	45	25	n/a		
Horizontal Stopping Sight Distance, FT	360	360	155	n/a		
Circulating Intersection Sight Distance, FT/MPH	92	17.2	92	17.2	92	17.2
Entering Intersection Sight Distance, FT/MPH	122	21.3	105	19.1	118	20.8

CENTER OF ROUNDAABOUT @ WILKENS BLVD.			
STA. 21+03.82			
NORTHING= 477249.8371			
EASTING= 1453254.4502			
RADIUS= 77'			
	OFFSET	NORTHING	EASTING
(A) 0+27.42 CC = 70+00 WNE_E		477276.6853	1453326.6178
(B) 0+68.76 CC = 80+00 WNE_N		477309.8181	1453302.7336
(D) 1+48.72 CC = 100+00 WNL		477321.8831	1453227.2771
(E) 1+88.23 CC = 110+00 WNW		477299.0930	1453195.2652
(F) 2+75.62 CC = 10+86.61 WSW		477217.1876	1453184.7149
(G) 3+12.47 CC = 20+48.21 WSL		477188.7405	1453207.5864
(H) 3+44.26 CC = 30+51.67 WSR		477175.0722	1453236.0326
(I) 4+25.21 CC = 50+00 WER		477196.7381	1453310.2130
(J) 4+65.62 CC = 60+00 WEL		477231.8252	1453329.3138

REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	Dc	Δ	T (FT.)	L (FT.)	R (FT.)	BEGIN CURVE	END CURVE
WSW	10+22.29	477153.9967	1453189.9813	19°5'55"	8°29'56"	22.29	44.50	300.00	10+00.00	10+44.50
	10+66.05	477197.6686	1453193.8535	71°37'11"	30°09'20"	21.55	42.11	80.00	10+44.50	10+86.61
WSL	20+09.33	477150.0330	1453204.3238	47°44'47"	08°53'45"	9.34	18.63	120.00	20+00.00	20+18.63
	20+26.53	477167.1035	1453206.6860	18°09'37"	02°52'05"	7.89	15.79	315.50	20+18.63	20+34.43
	20+41.33	477181.8486	1453207.9788	59°59'44"	08°16'07"	6.90	13.78	95.50	20+34.43	20+48.21



REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	Dc	Δ	T (FT.)	L (FT.)	R (FT.)	BEGIN CURVE	END CURVE
WSR	30+09.93	477143.7715	1453208.5156	95°29'35"	18°47'43"	9.93	19.68	60.00	30+00.00	30+19.68
	30+35.82	477165.3471	1453223.1507	58°45'54"	18°47'58"	16.14	31.99	97.50	30+19.68	30+51.67
WSE	40+17.51	477094.6461	1453212.9261	14°19'26"	5°00'48"	17.51	35.00	400.00	40+00.00	40+35.00
	40+84.60	477160.6312	1453225.1790	71°37'11"	63°36'00"	49.60	88.80	80.00	40+35.00	41+23.80
	41+70.03	477186.8528	1453317.3489	35°48'36"	32°13'44"	46.23	90.00	160.00	41+23.80	42+13.80
WER	50+23.46	477196.5664	1453333.6680	38°11'50"	17°46'29"	23.46	46.53	150.00	50+00.00	50+46.53



ROUNDAABOUT GEOMETRIC LAYOUT

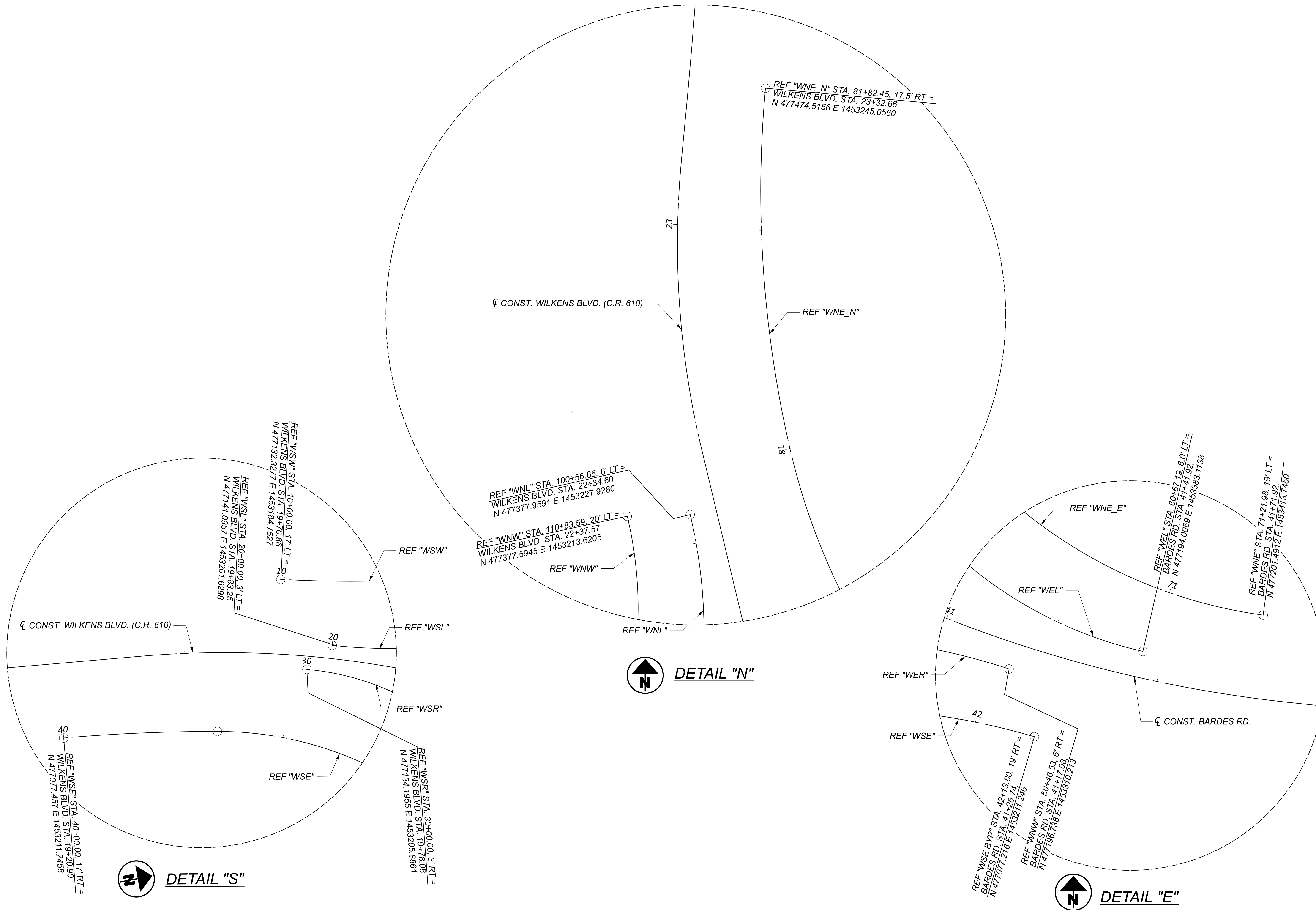
DESIGN AGENCY
WSP
 WSP USA, Inc.
 312 Elm Street,
 Suite 2500
 Cincinnati, OH 45202

DESIGNER
DWO

REVIEWER
 ABS 01/30/24

PROJECT ID
 29076

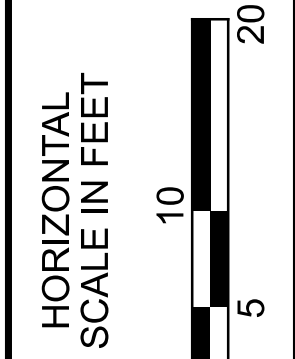
SHEET TOTAL
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DETAIL "S"

DETAIL "N"

DETAIL "E"



ROUNDABOUT GEOMETRIC DETAILS

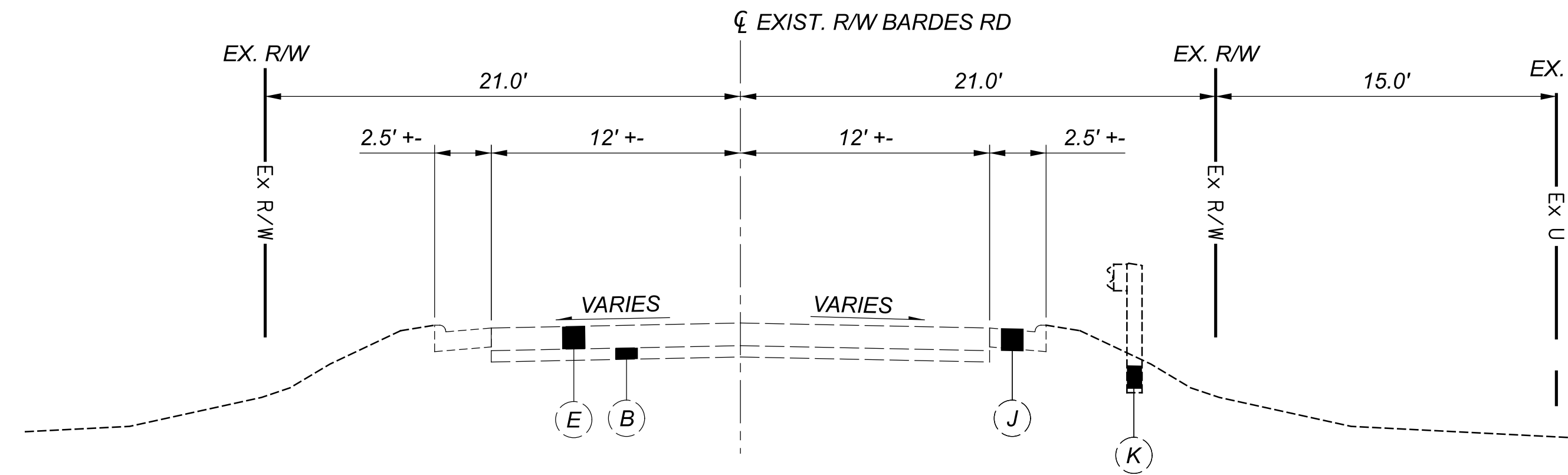
DESIGN AGENCY

 WSP USA, Inc.
 312 Elm Street,
 Suite 2500
 Cincinnati, OH 45202

DESIGNER	DWO
REVIEWER	ABS 01/30/24
PROJECT ID	29076
SHEET	TOTAL
4	76

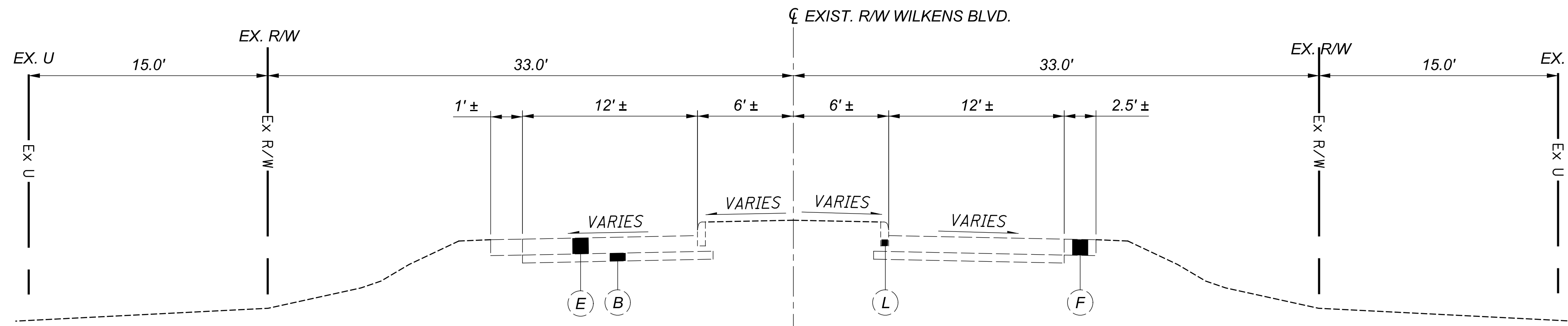
EXISTING LEGEND:

- (B) EXISTING 6" AGGREGATE BASE
- (E) EXISTING ASPHALT PAVEMENT
- (F) EXISTING AGGREGATE SHOULDER
- (J) EXISTING CURB AND GUTTER
- (K) EXISTING GUARDRAIL
- (L) EXISTING CURB



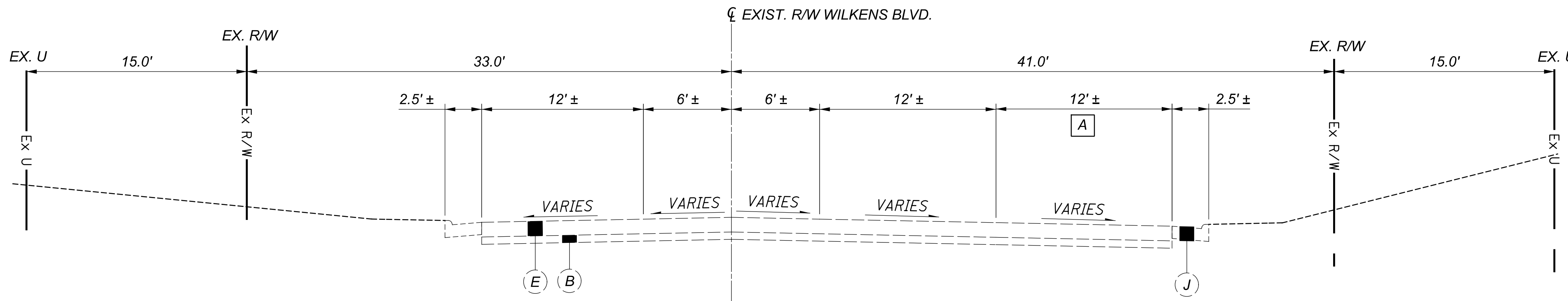
EXISTING BARDES ROAD SECTION

SECTION APPLIES:
 EXIST. CONST. STA. 40+00 TO STA. 47+50



EXISTING WILKENS BLVD SECTION

SECTION APPLIES:
 EXIST. CONST. STA. 22+75 TO STA. 26+47



EXISTING WILKENS BLVD SECTION

SECTION APPLIES:
 EXIST. CONST. STA. 14+00 TO STA. 22+75

(A) LANE INTRODUCED AT
 STA. 16+16

TYPICAL SECTIONS

WAR-C.R. 610-0.15

MODEL: Sheet PAPER SIZE: 34x22 (in.) DATE: 1/30/2024 TIME: 6:44:15 PM USER: USEK712839
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DESIGN AGENCY



WSP USA, Inc.
 312 Elm Street,
 Suite 2500
 Cincinnati, OH 45202

DESIGNER

JRW

REVIEWER

ABS 01/30/24

PROJECT ID

29076

SHEET

5

TOTAL

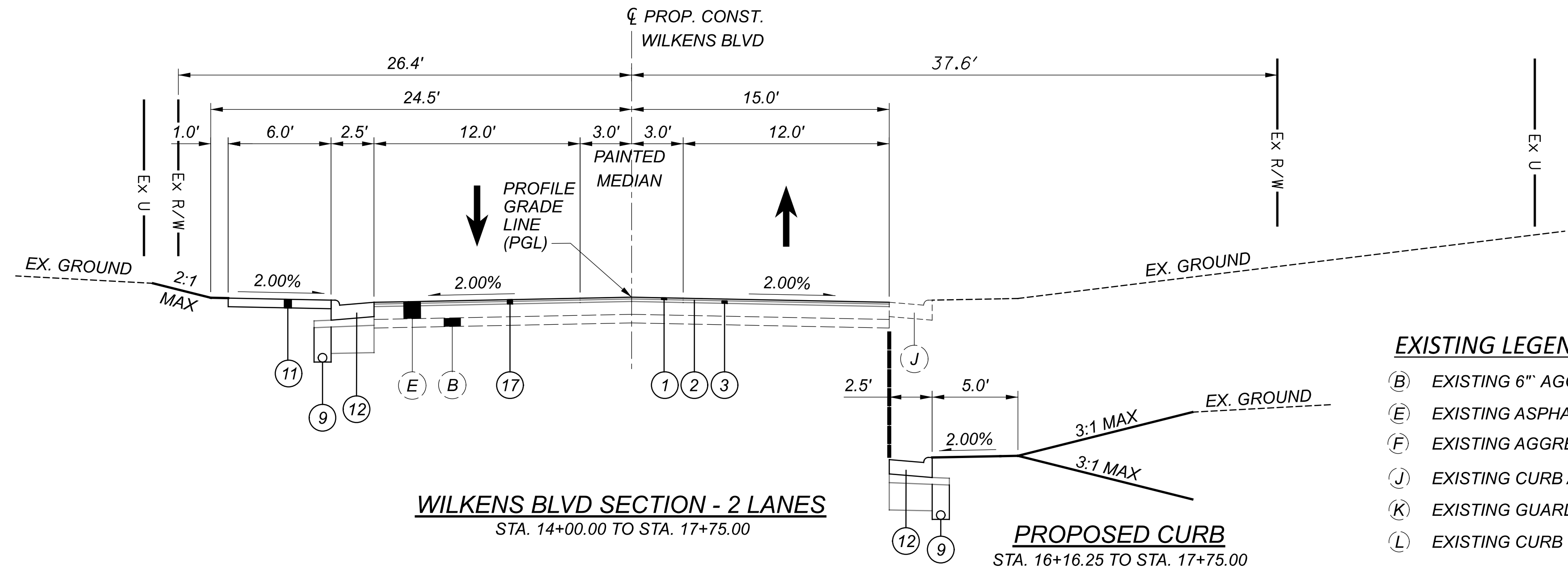
76

LEGEND:

- ① ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (448)
- ② ITEM 407 - NON-TRACKING TACK COAT PER CMS TABLE 407.06-1
- ③ ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (448)
- ④ ITEM 301 - 3" ASPHALT CONCRETE BASE, PG64-22 ON
- ⑤ ITEM 302 - 6" ASPHALT CONCRETE BASE, PG64-22
- ⑥ ITEM 408 - PRIME COAT
- ⑦ ITEM 304 - 6" AGGREGATE BASE
- ⑧ ITEM 452 - 12" NON-REINFORCED CONCRETE PAVEMENT
- ⑨ ITEM 206 - CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP
- ⑩ ITEM 605 - 4" BASE PIPE UNDERDRAINS, 707.31
- ⑪ ITEM 606 - GUARDRAIL, TYPE MGS
- ⑫ ITEM 608 - 5" CONCRETE WALK
- ⑬ ITEM 609 - CURB AND GUTTER, TYPE 2
- ⑭ ITEM 609 - CURB, TYPE 6
- ⑮ ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 9
- ⑯ ITEM 609 - CONCRETE MEDIAN
- ⑰ ITEM 659 - SEEDING AND MULCHING, AS PER PLAN
- ⑱ ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE 3.25"
- ⑲ ITEM 609 - 4" CONCRETE TRAFFIC ISLAND

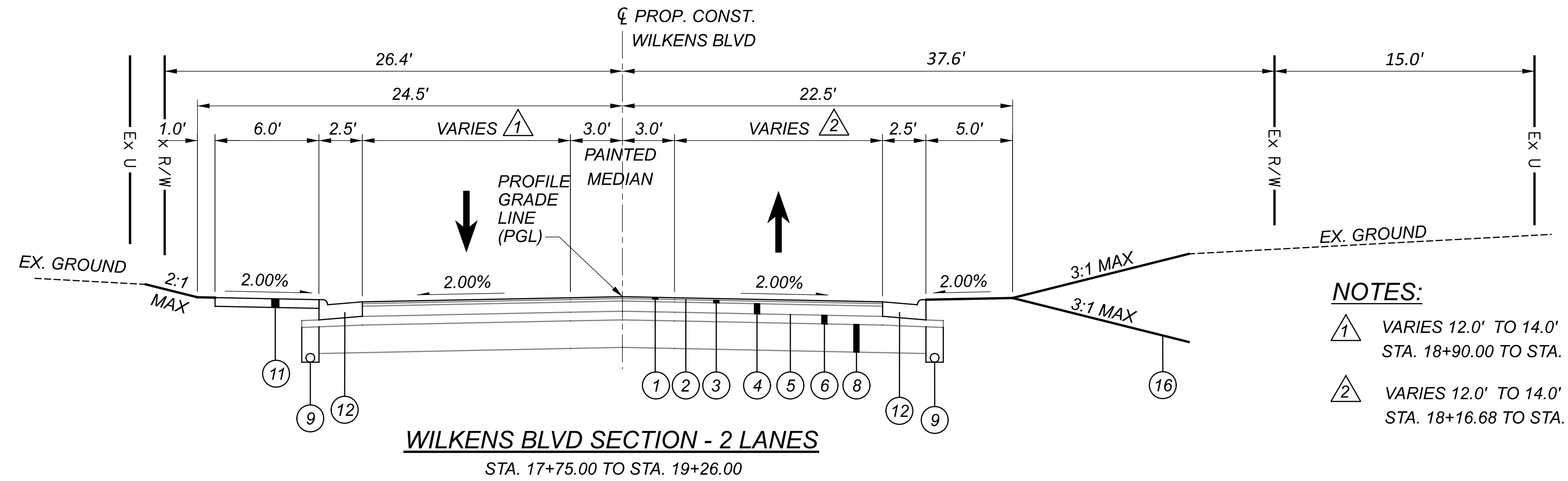
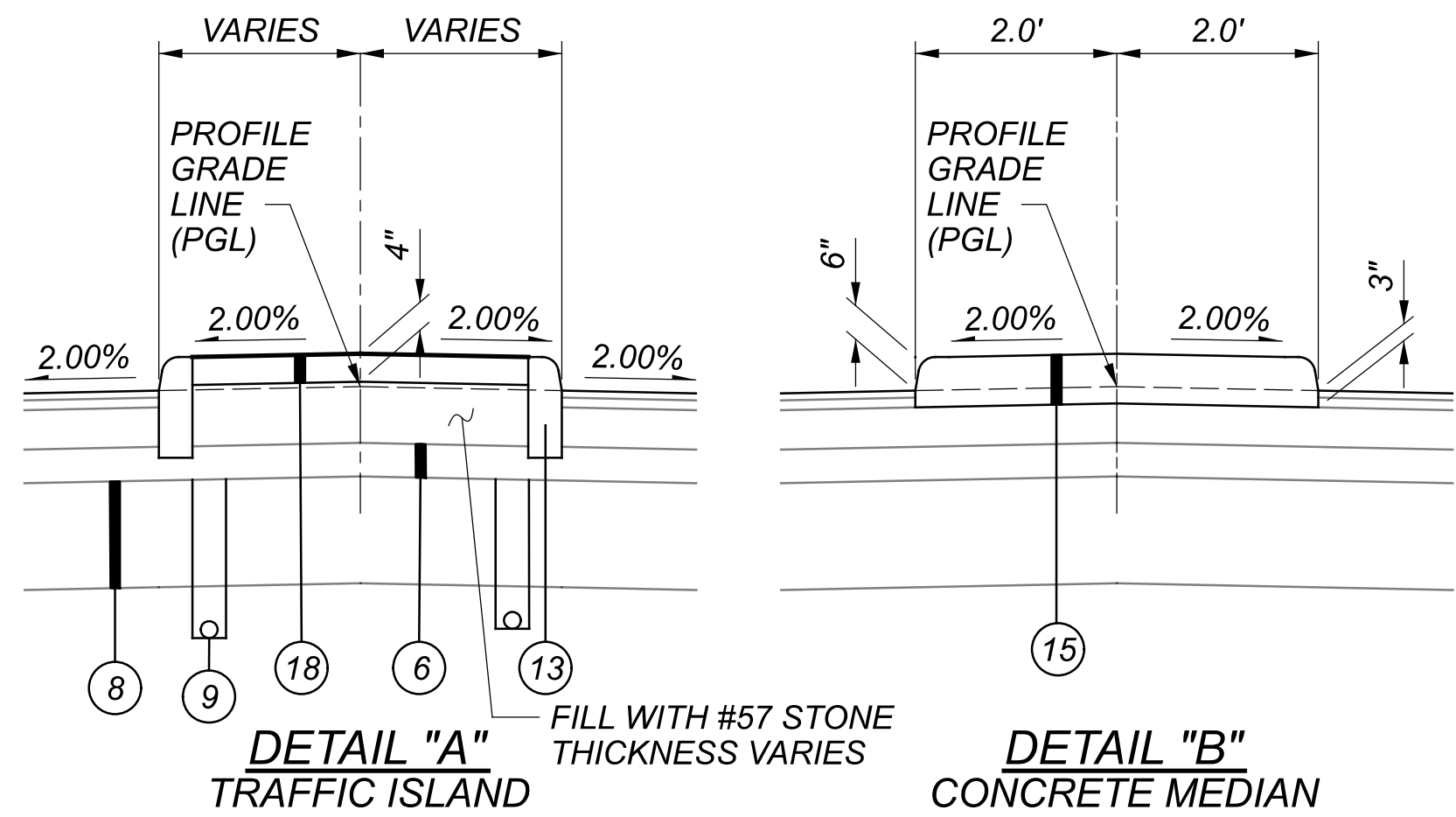
EXISTING LEGEND:

- ⓑ EXISTING 6" AGGREGATE BASE
- ⓔ EXISTING ASPHALT PAVEMENT
- ⓕ EXISTING AGGREGATE SHOULDER
- ⓙ EXISTING CURB AND GUTTER
- Ⓚ EXISTING GUARDRAIL
- Ⓛ EXISTING CURB



WILKENS BLVD SECTION - 2 LANES
STA. 14+00.00 TO STA. 17+75.00

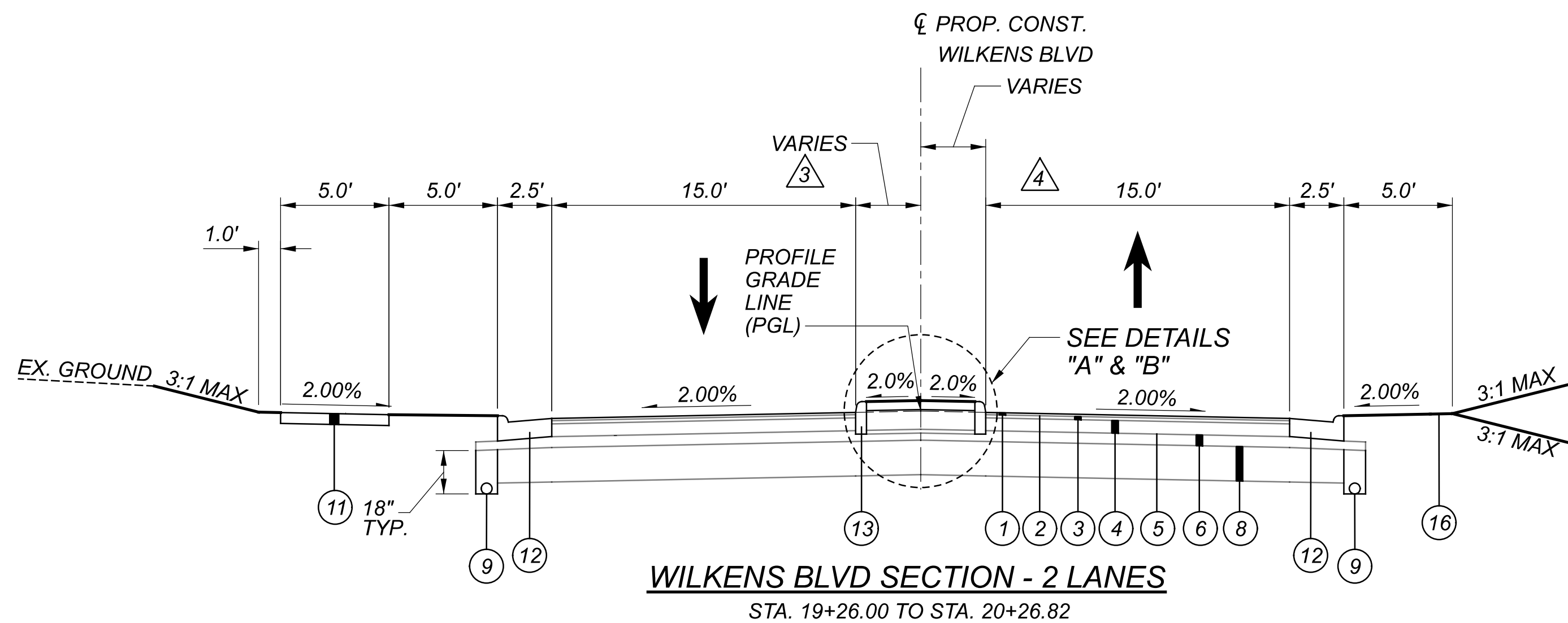
PROPOSED CURB
STA. 16+16.25 TO STA. 17+75.00



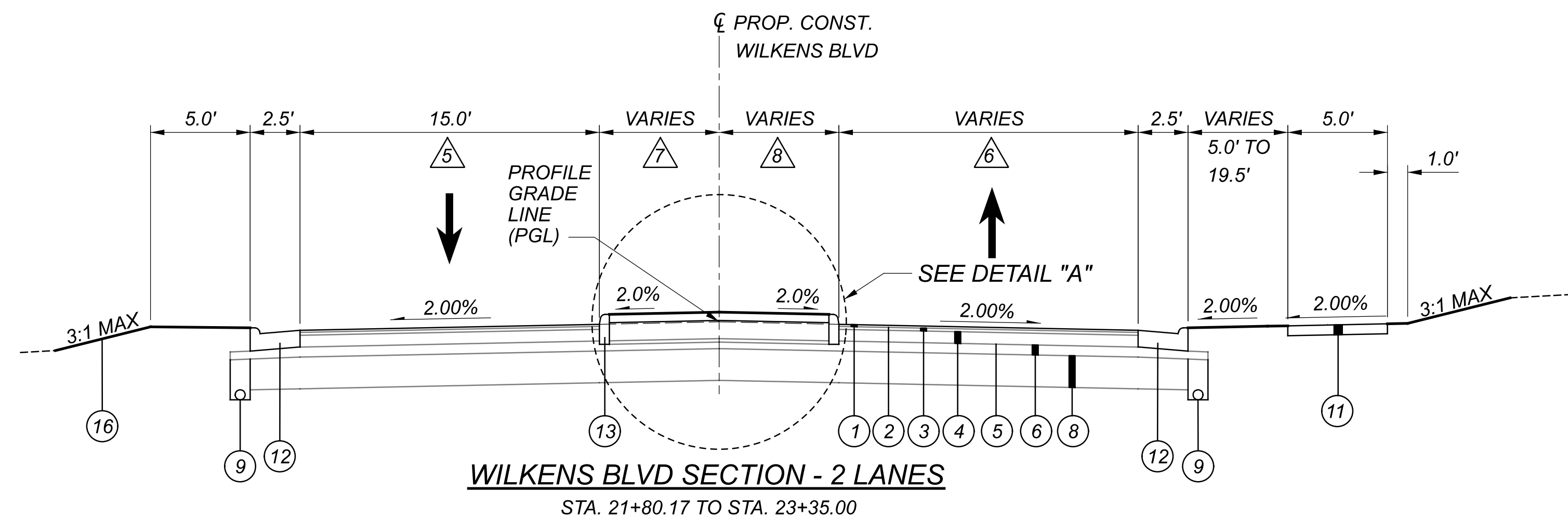
WILKENS BLVD SECTION - 2 LANES
STA. 17+75.00 TO STA. 19+26.00

NOTES:

- ⚠ VARIES 12.0' TO 14.0'
STA. 18+90.00 TO STA. 19+40.00
- ⚠ VARIES 12.0' TO 14.0'
STA. 18+16.68 TO STA. 18+66.68



WILKENS BLVD SECTION - 2 LANES
STA. 19+26.00 TO STA. 20+26.82



WILKENS BLVD SECTION - 2 LANES
STA. 21+80.17 TO STA. 23+35.00

- ⚠ 2.0' STA. 19+26.00 TO STA 19+64.94 - SEE DETAIL "B"
- VARIES 2.0' TO 11.51' STA. 19+76.94 TO STA. 20+26.82 - SEE DETAIL "A"
- ⚠ 2.0' STA. 19+26.00 TO STA 19+64.94 - SEE DETAIL "B"
- VARIES 2.0' TO 12.14' STA. 19+76.94 TO STA. 20+26.82 - SEE DETAIL "A"

- ⚠ VARIES 16.96' TO 15.0' STA. 21+79.35 TO STA. 22+25.00
- ⚠ VARIES 17.6' TO 15.0' STA. 22+89.51 TO STA. 23+35.00
- ⚠ VARIES 16.0' TO 11.52' STA. 21+79.35 TO STA. 23+35.00
- ⚠ VARIES 15.8' TO 6.0' STA. 21+79.35 TO STA. 22+24.95
- ⚠ VARIES 15.0' TO 6.0' STA. 21+79.35 TO STA. 22+25.43

TYPICAL SECTIONS

WAR-C.R. 610-0.15

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DESIGN AGENCY
WSP
WSP USA, Inc.
312 Elm Street,
Suite 2500
Cincinnati, OH 45202

DESIGNER
JRW

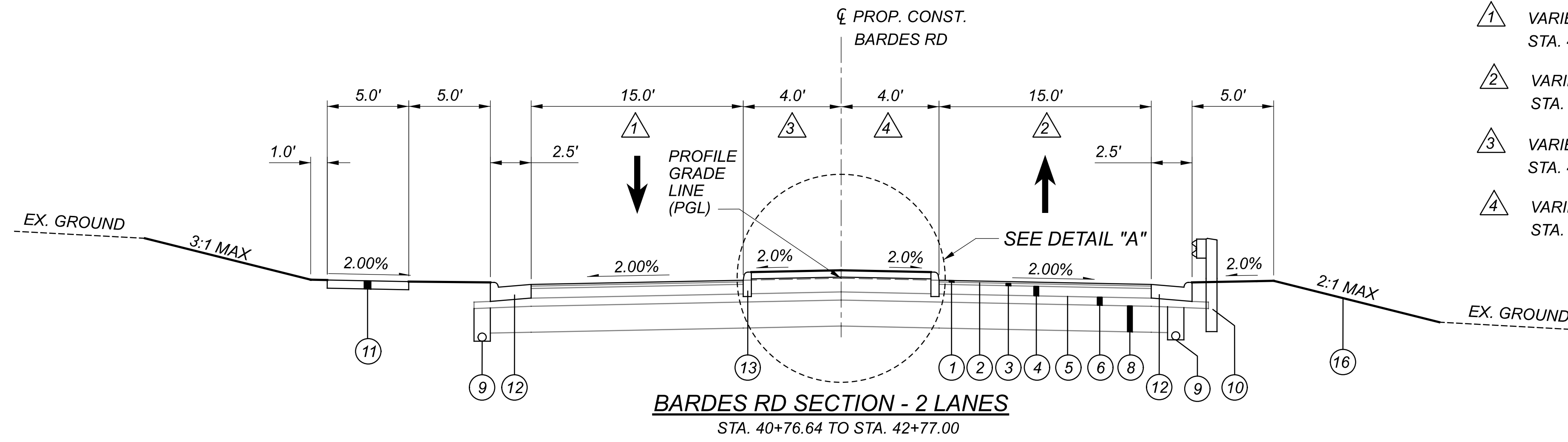
REVIEWER
ABS 01/30/24

PROJECT ID
29076

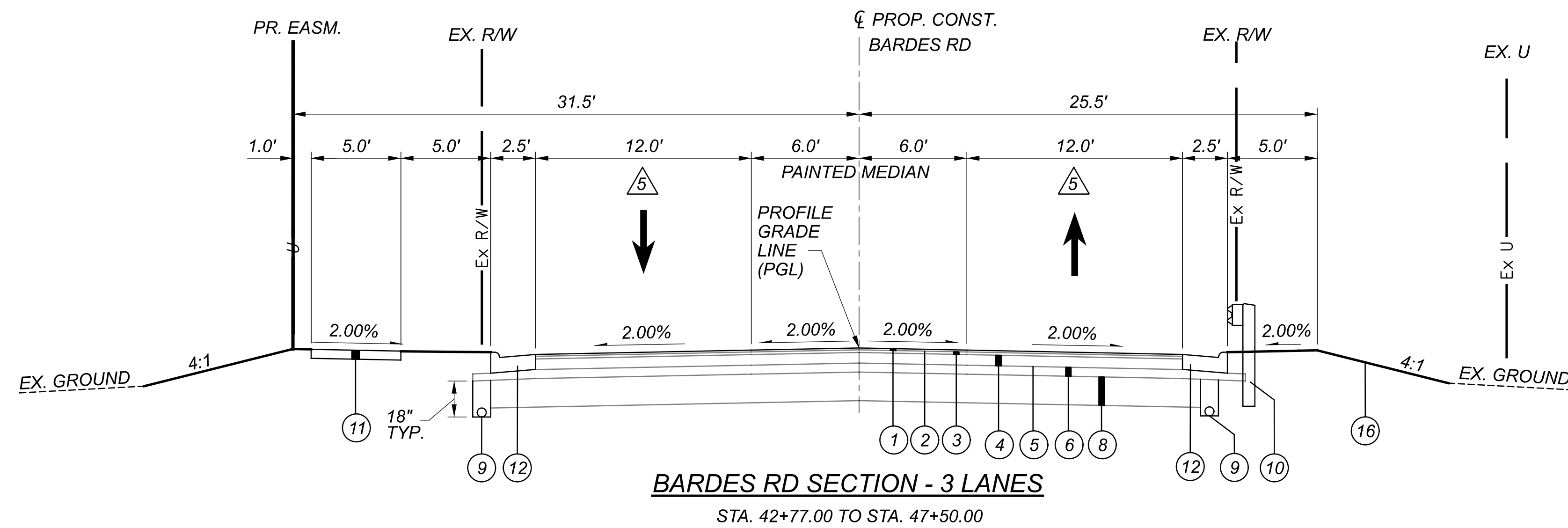
SHEET TOTAL
6 | 76

LEGEND:

- ① ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (448)
- ② ITEM 407 - NON-TRACKING TACK COAT PER CMS TABLE 407.06-1
- ③ ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (448)
- ④ ITEM 301 - 3" ASPHALT CONCRETE BASE, PG64-22 ON
ITEM 302 - 6" ASPHALT CONCRETE BASE, PG64-22
- ⑤ ITEM 408 - PRIME COAT
- ⑥ ITEM 304 - 6" AGGREGATE BASE
- ⑦ ITEM 452 - 12" NON-REINFORCED CONCRETE PAVEMENT
- ⑧ ITEM 206 - CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP
- ⑨ ITEM 605 - 4" BASE PIPE UNDERDRAINS, 707.31
- ⑩ ITEM 606 - GUARDRAIL, TYPE MGS
- ⑪ ITEM 608 - 5" CONCRETE WALK
- ⑫ ITEM 609 - CURB AND GUTTER, TYPE 2
- ⑬ ITEM 609 - CURB, TYPE 6
- ⑭ ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 9
- ⑮ ITEM 609 - CONCRETE MEDIAN
- ⑯ ITEM 659 - SEEDING AND MULCHING, AS PER PLAN
- ⑰ ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE 3.25"
- ⑱ ITEM 609 - 4" CONCRETE TRAFFIC ISLAND



- ① VARIES 18.15' TO 15.0'
STA. 40+76.64 TO STA. 41+71.92
- ② VARIES 19.4' TO 15.0'
STA. 40+76.64 TO STA. 41+26.74
- ③ VARIES 18.0' TO 4.0'
STA. 40+76.64 TO STA. 41+41.92
- ④ VARIES 11.3' TO 4.0'
STA. 40+76.64 TO STA. 41+17.08



- ⑤ VARIES 13.0' TO 12.0'
STA. 42+75.00 TO STA. 43+25.00

TYPICAL SECTIONS

WAR-C.R. 610-0.15

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DESIGN AGENCY



WSP USA, Inc.
312 Elm Street,
Suite 2500
Cincinnati, OH 45202

DESIGNER

JRW

REVIEWER

ABS 01/30/24

PROJECT ID

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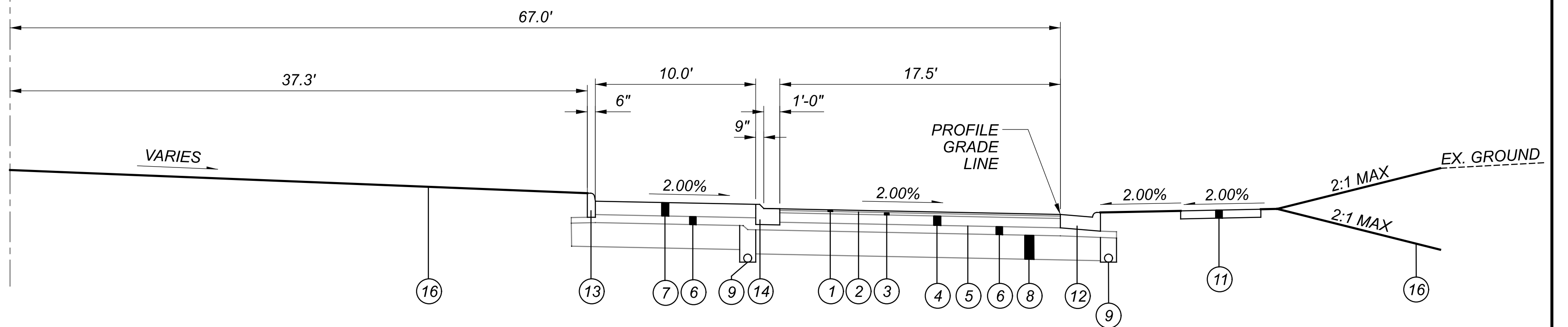
SHEET TOTAL

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LEGEND:

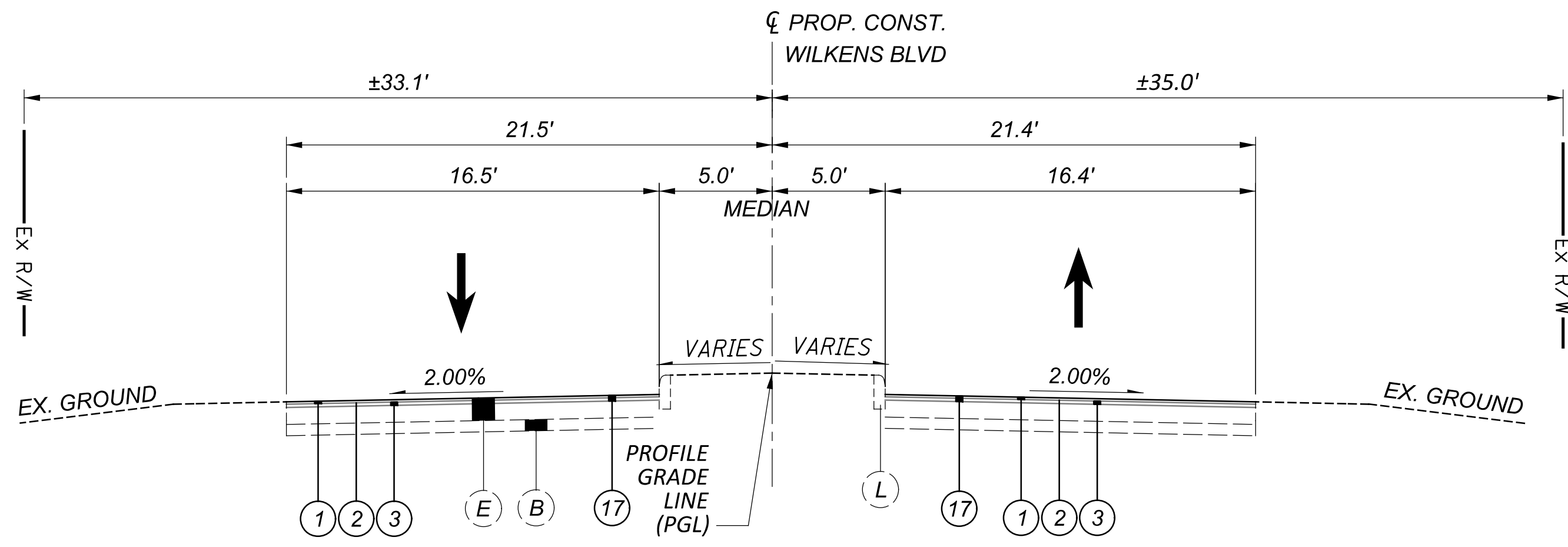
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- ⑬ ITEM 609 - CURB, TYPE 6
- ⑭ ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 9
- ⑮ ITEM 609 - CONCRETE MEDIAN
- ⑯ ITEM 659 - SEEDING AND MULCHING, AS PER PLAN
- ⑰ ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE 3.25"
- ⑱ ITEM 609 - 4" CONCRETE TRAFFIC ISLAND

CENTER OF ROUNDABOUT
WILKENS BLVD. AND BARDES RD.



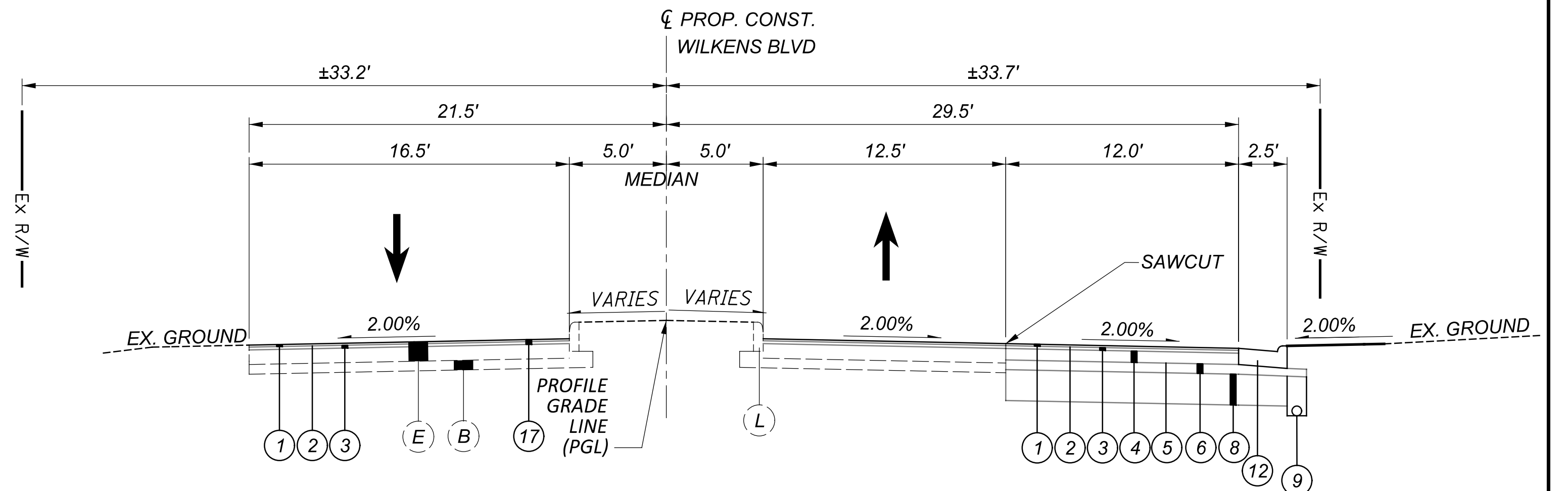
NORMAL SECTION - ROUNDABOUT

WILKENS BLVD. AND BARDES RD.
STA. 20+26.82 TO STA. 21+80.17



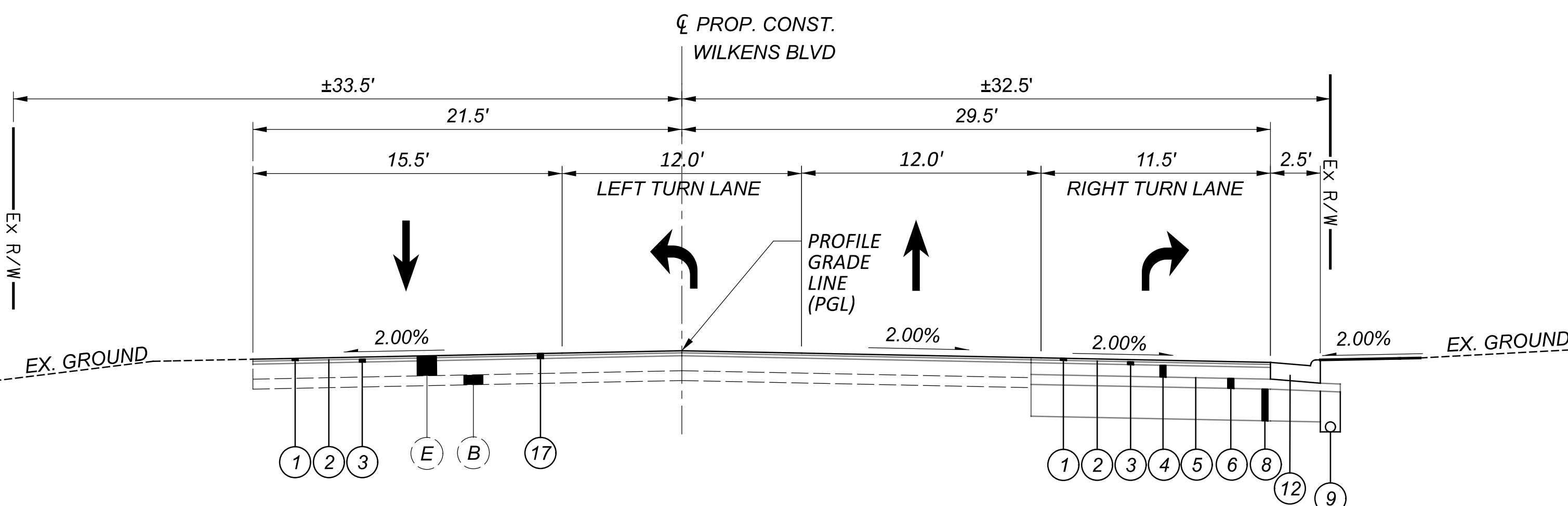
WILKENS BLVD SECTION - 2 LANES

STA. 23+40.00 TO STA. 25+05.07



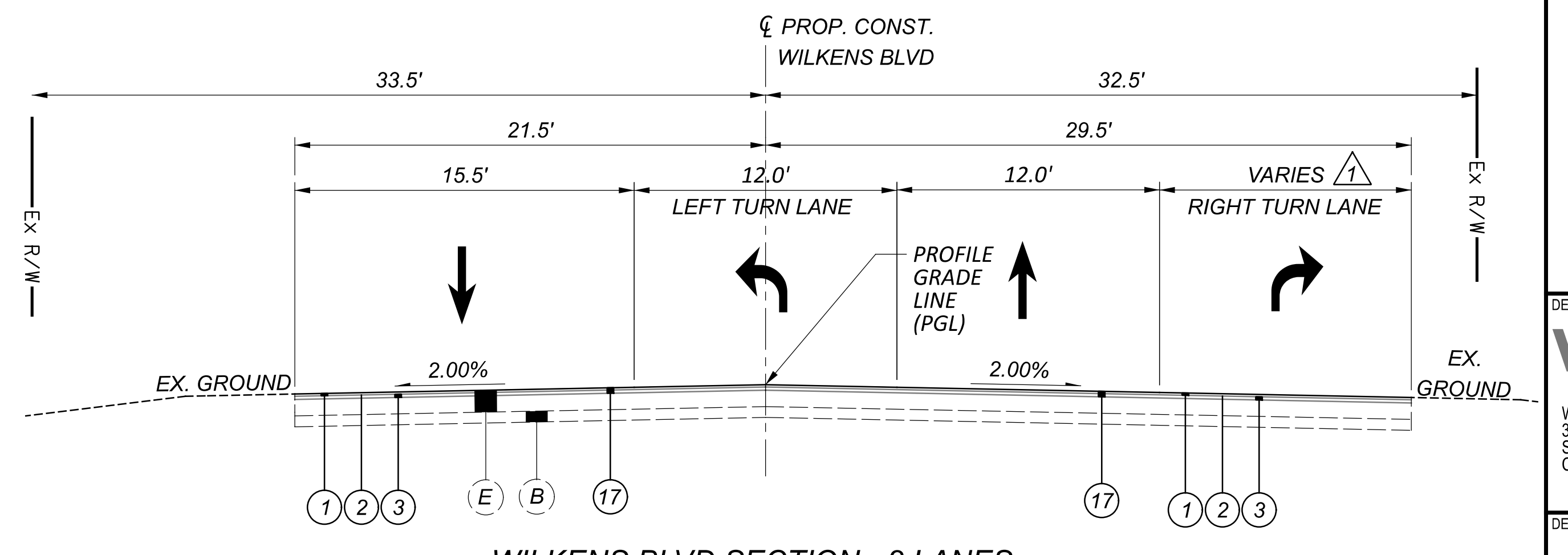
WILKENS BLVD SECTION - 2 LANES

STA. 25+05.07 TO STA. 26+46.63



WILKENS BLVD SECTION - 2 LANES

STA. 26+46.63 TO STA. 27+32.62



WILKENS BLVD SECTION - 2 LANES

STA. 27+32.62 TO STA. 28+00.00

NOTES:

- ① VARIES 11.5' TO 21.2'
STA. 27+69.79 TO STA. 28+00.00

TYPICAL SECTIONS

WAR-C.R. 610-0.15

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DESIGN AGENCY



WSP USA, Inc.
312 Elm Street,
Suite 2500
Cincinnati, OH 45202

DESIGNER

JRW

REVIEWER

ABS 01/30/24

PROJECT ID

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SHEET TOTAL

8 | 76

ROUNDING

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

UTILITIES

BIDDERS ARE ADVISED THAT NOT ALL OF THE FOLLOWING UTILITY FACILITIES WILL LIKELY BE CLEARED FROM THE CONSTRUCTION AREA AT THE TIME OF AWARD OF THE CONTRACT.

THE LISTED UTILITIES ARE IN OR NEAR THE CONSTRUCTION WORK LIMITS ON THIS PROJECT. SOME UTILITIES MAY REMAIN DURING CONSTRUCTION. THE CONTRACTOR SHOULD EXERCISE CAUTION WHEN WORKING IN THE VICINITY OF LIVE UTILITY FACILITIES.

ALTA FIBER/CINCINNATI BELL:
CINCINNATI BELL TELEPHONE
221 EAST 4TH STREET,
BUILDING 121-900
CINCINNATI, OH 45202
ATTN: MR. BRECK COWAN, CPM
SPECIALIST - STRUCTURAL ENGINEER
OFFICE: (513) 565-7187
WIRELESS: (513) 702-1040
BRECK.COWAN@ALTA FIBER.COM

AT&T TCA/LNS/METRO/TCG:
THAYER POWER AND
COMMUNICATION LINE
CONSTRUCTION CO., LLC
950 FREEWAY DRIVE N.
COLUMBUS, OH 43229
ATTN:
CHRISTOPHER MCCLOSKEY-
S PROJECT MANAGER
TELEPHONE: (614) 431-9292
CHRISMCCLOSKEY
@THAYERPC.COM

**DUKE ENERGY CORPORATION
(ELECTRIC):**
139 4TH STREET, 562A
CINCINNATI, OH 45202
ATTN: MR. RICK HICKS
TELEPHONE: (513) 287-3643
RICK.HICKS@DUKE-ENERGY.COM

**WARREN COUNTY-
PUBLIC UTILITIES:**
210 W MAIN STREET
LEBANON, OHIO 45036
ATTN: MR. DAVE MICK-
STORM WATER ENGINEER
TELEPHONE: (513) 695-3309
DAVE.MICK
@CO.WARREN.OH.US

**DUKE ENERGY CORPORATION
(GAS):**
139 E. 4TH STREET, RM. 460 A
CINCINNATI, OH 45201
ATTN: MR. RALPH PFISTER
TELEPHONE: (513) 287-2730
RALPH.PFISTER@
DUKE-ENERGY.COM

**WARREN COUNTY WATER &
SEWER DEPARTMENT**
P. O. BOX 530
LEBANON, OHIO 45036
ATTN: MR. CHRIS WOJNICZ-
SANITARY ENGINEER
TELEPHONE: (513) 925-1646
CHRISTOPHER.WOJNICZ@CO.
WARREN.OH.US

**CENTURYLINK-LEVEL3
(INTERNET/TELECOMM):**
9490 MERIDIAN WAY
WEST CHESTER, OHIO 45069
ATTN: MR. TERRY SPAW-
OUTSIDE PLANT ENGINEER
TELEPHONE: (513) 644-8933
NATIONALRELO@CENTURYLINK.COM
TERRY.SPAW@LEVEL3.COM

WINDSTREAM:
929 MARTHA'S WAY
HIAWATHA, IA 52233
ATTN: MR. KYLE SCHLIEMANN
TELEPHONE: (800) 289-1901
KYLE.R.SCHLIEMANN@
WINDSTREAM.COM

METROPOLIAN SEWER DISTRICT GC
1600 GEST STREET
CINCINNATI, OH 45204
ATTN: MR. STEVE PARKER
ATTN: MS. JENNIFER GERMANN
TELEPHONE (513) 244-1351
TELEPHONE (513) 557-7188
STEVEN.PARKER
@CINCINNATI-OH.GOV
JENNIFER.GERMANN
@CINCINNATI-OH.GOV

OR ATTN.: LEON TAYLOR
PHONE: (937) 725-5358
LEON.TAYLOR@WINDSTREAM.COM

UNDERGROUND UTILITIES

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.

THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO THE OHIO UTILITIES PROTECTION SERVICE, PRODUCERS UNDERGROUND PROTECTION SERVICE, AND OWNERS OF UNDERGROUND FACILITIES THAT ARE NOT MEMBERS OF A REGISTERED PROTECTION SERVICE IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE. THE ABOVE, MENTIONED NOTICE SHALL BE GIVEN AT LEAST TWO WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

OHIO UTILITY PROTECTION SERVICE 1-800-362-2764
PRODUCERS UNDERGROUND PROTECTION SERVICE 1-614-587-0486
NON-MEMBERS MUST BE CALLED DIRECTLY.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS.
USE THE FOLLOWING CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: ODOT VRS
MONUMENT TYPE: TYPE B W/YELLOW PLASTIC CAP

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID12A

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83(2011)
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE, SOUTH ZONE
COMBINED SCALE FACTOR: 1.000097945
ORIGIN OF COORDINATE SYSTEM: 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 THE CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET. USE THE FOLLOWING CONVERSION FACTOR: 1 METER = 3.280833333 U.S. SURVEY FEET.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

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.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 8:00 PM AND 7:00 AM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

PROTECTION OF RIGHT-OF-WAY LANDSCAPING

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

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

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. EXCEPT AS APPROVED BY THE ENGINEER, USE OF THESE AREAS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS, AS DEFINED ABOVE, WILL BE REPLACED IN KIND OR AS APPROVED BY THE PROJECT ENGINEER.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE COUNTY, REPRESENTATIVES OF THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE COUNTY.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE COUNTY.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

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

DESIGN AGENCY



WSP USA, Inc.
312 Elm Street,
Suite 2500
Cincinnati, OH 45202

DESIGNER

JRW

REVIEWER

ABS 01/30/24

PROJECT ID

29076

SHEET TOTAL

9 | 76

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE B

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

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

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

THE FACE OF THE TYPE B IMPACT HEAD SHALL BE COVERED WITH TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

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

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

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.

SEEDING AND MULCHING

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

659, SOIL ANALYSIS TEST	4 EACH
659, TOPSOIL	632 CU. YD.
659, SEEDING AND MULCHING	5,108 SQ. YD.
659, REPAIR SEEDING AND MULCHING	478 SQ. YD.
659, INTER-SEEDING	285 SQ. YD.
659, COMMERCIAL FERTILIZER	0.8 TON
659, LIME	4 ACRES
659, WATER	18 M. GAL.

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.

FULL DEPTH PAVEMENT SAWING

FULL DEPTH PAVEMENT SAWING SHALL BE INCIDENTAL TO THE VARIOUS PAY ITEMS.

DESIGN AGENCY



WSP USA, Inc.
 312 Elm Street,
 Suite 2500
 Cincinnati, OH 45202

DESIGNER

JRW

REVIEWER

ABS 01/30/24

PROJECT ID

29076

SHEET

10

TOTAL

76

ITEM 614 - MAINTAINING TRAFFIC

THE INTERSECTION AND PORTIONS OF WILKENS BLVD. AND BARDES RD. WILL BE CLOSED AND DETOURED. THIS CLOSURE WILL LIKELY TAKE PLACE IN COORDINATION WITH THE FIELDS ERTTEL PROJECT PHASE 1 - STEP 2. ALTHOUGH TRAFFIC IS LOCAL AND ALL ROADS ARE 45 MPH AND UNDER, DETOURS AND OTHER MEASURES HAVE BEEN PROVIDED AND DETAILED IN THE PLANS.

LENGTH AND DURATION OF ROAD/LANE CLOSURES & RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE OR ROAD 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.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 AND AS SHOWN ON THE DETOUR PLAN SHEETS.

MAINTENANCE OF ALL CONTRACTOR-SUPPLIED SIGNS, BARRICADES, VERTICAL PANELS AND DRUMS IS THE CONTRACTOR'S RESPONSIBILITY. IF THE CONTRACTOR FAILS TO CORRECT DEFICIENCIES WITHIN FOUR HOURS OF NOTIFICATION, WARREN COUNTY SHALL CORRECT, OR HIRE SOMEONE TO CORRECT, THE DEFICIENCIES. THE CONTRACTOR SHALL THEN BE BACK CHARGED PER ODOT SPECIFICATION 614. IN THE CASE THAT BACK-CHARGING THE CONTRACTOR IS NOT APPLICABLE, THE COUNTY WILL RESCIND AND WITHHOLD ALL PERMITS ISSUED TO THE CONTRACTOR TO WORK WITHIN COUNTY RIGHT-OF-WAY UNTIL THE ISSUE IS SETTLED. THESE PROVISIONS SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR OF ANY OF THEIR LEGAL RESPONSIBILITIES OR LIABILITIES FOR THE SAFETY OF THE PUBLIC.

CONES ARE APPROVED FOR DAYTIME USE ONLY. DRUMS SHALL BE USED AT NIGHT AND HAVE YELLOW TYPE C STEADY BURNING LIGHTS. CONES AND DRUMS SHALL BE PLACED AS FOLLOWS: 25' C/C ON TANGENTS, 15' C/C ON TAPERS, AND 8' C/C IN RADII, OR AS SPECIFIED IN ODOT SCD MT-97.10 OR MT-95.30.

ALL SIGNS NINE SQUARE FEET (36" X 36") AND OVER SHALL HAVE YELLOW TYPE A LOW INTENSITY FLASHING WARNING LIGHTS AND TWO FLAGS.

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

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 6 C.Y.
- ITEM 614, ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 3 C.Y.
- ITEM 616, WATER 10 M. GAL.

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 48 M. GAL.

NOTICE OF CLOSURE SIGNS

NOTICE OF CLOSURE SIGNS (W20-H13), SHALL BE ERECTED BY THE CONTRACTOR 14 CALENDAR DAYS PRIOR TO A SCHEDULED ROAD CLOSURE THAT WILL LAST LONGER THAN 2 WEEKS. THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. THE SIGNS SHALL BE ERECTED IN ADVANCE BUT NEAR THE POINT OF FUTURE CLOSURE AND BE VISIBLE TO THE MOTORISTS USING THE ROAD.

NOTICE OF CLOSURE SIGN TIME TABLE		
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

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE THE COUNTY ENGINEER'S OFFICE NUMBER.

AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLAT-SHEET SIGNS FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK AT NO ADDITIONAL COST TO THE PROJECT.

MAINTAINING PROPERTY ACCESS

INGRESS AND EGRESS SHALL BE MAINTAINED TO ALL PROPERTIES DURING CONSTRUCTION. SOME DRIVEWAY CLOSURES MAY BE NECESSARY FOR AN ENTIRE PHASE OF WORK. ALTERNATE MEANS OF ACCESS IS AVAILABLE TO MOST PROPERTIES WITH SHARED DRIVES OR SHARED PARKING LOTS. PROPERTIES WITH MULTIPLE DRIVES MAY HAVE ONE DRIVE CLOSED AT A TIME, WHILE WORK IS PERFORMED IN THE AREA OF THE CLOSED DRIVE.

INDIVIDUAL DRIVE CLOSURES SHALL BE KEPT TO THE MINIMUM TIME NEEDED FOR CONSTRUCTION ACTIVITIES. EVERY EFFORT MUST BE MADE TO ACCOMMODATE THE OWNER'S NEED FOR ACCESS. THE PLANS INCLUDE QUANTITIES TO BE USED AS DIRECTED BY THE ENGINEER, FOR THIS, AND OTHER APPROVED PURPOSES.

THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING OWNERS, RESIDENTS, OR BUSINESS OPERATORS, IN WRITING, AT LEAST 48 HOURS, BUT NOT MORE THAN 72 HOURS, PRIOR TO CLOSURE. THE ENGINEER SHALL BE GIVEN A LIST OF THE PERSONS THAT WERE GIVEN NOTICES WITH THE DATE OF NOTICE INCLUDED.

WORK ZONE MARKING AND SIGNS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS AND SIGNS PER THE REQUIREMENTS OF C&MS 614.04 AND 614.11. BID PRICES SHALL INCLUDE ALL REQUIRED MOBILIZATIONS FOR PAVEMENT MARKINGS AND SIGN INSTALLATION DURING FINAL PAVING OPERATIONS.

- 614, WORK ZONE CENTERLINE, CLASS III, 642 PAINT 0.5 MI.
- 614, WORK ZONE CHANNELIZING LINE, CL. III, 12", 642 PAINT 200 FT.
- 614, WORK ZONE STOP LINE, CLASS III, 642 PAINT 31 FT.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING, IF REQUIRED, SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUB-BASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 4 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH, WHICH SHALL BE COVERED WITH PLATES UNTIL CONSTRUCTION ACTIVITIES COMMENCE AGAIN. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

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NOTIFICATION OF CONSTRUCTION INITIATION

AT LEAST FOURTEEN DAYS PRIOR TO STARTING INITIAL CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL ADVISE THE COUNTY ENGINEER'S OFFICE OF THE ANTICIPATED START DATE OF ANY CONSTRUCTION ACTIVITIES INCLUDING BUT NOT LIMITED TO THE PLACING OF WORK ZONE SIGNS. THE NOTIFICATION SHALL ALSO INCLUDE THE PROJECT NUMBER, NAME AND PHONE NUMBER OF THE CONTRACTOR, A POINT OF CONTACT AND THE ANTICIPATED IMPACT ON TRAFFIC. THE CONTRACTOR WILL IMMEDIATELY INFORM THE ENGINEER'S OFFICE OF ANY AND ALL DELAYS AND/OR CHANGES REGARDING THE CONSTRUCTION INITIATION DATE.

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 SHOULD LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, DETOUR ROUTES IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME FRAME TABLE

ITEM	DURATION OF CLOSURE	NOTIFICATION DUE TO WARREN COUNTY
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
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	2 BUSINESS 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 FRAME TABLE.

CONTRACTOR'S EQUIPMENT-OPERATION AND STORAGE

VEHICLES AND EQUIPMENT SHALL ALWAYS MOVE WITH, AND NOT ACROSS OR AGAINST THE FLOW OF TRAFFIC. VEHICLES AND OTHER EQUIPMENT SHALL NOT PARK OR STOP EXCEPT WITHIN THE DESIGNATED WORK AREAS; AND SHALL NOT ENTER AND LEAVE THE WORK AREAS IN A MANNER WHICH WILL BE HAZARDOUS TO, OR INTERFERE WITH THE NORMAL TRAFFIC FLOW. PERSONAL VEHICLES WILL NOT BE PERMITTED TO PARK WITHIN THE RIGHT-OF-WAY EXCEPT IN SPECIFIC AREAS DESIGNATED BY THE ENGINEER.

EQUIPMENT, VEHICLES AND MATERIALS SHALL NOT BE STORED OR PARKED WITHIN 25 FEET OF THE TRAVELED WAY UNLESS 6 FEET BEHIND PCB OR GUARDRAIL.

ALL WORK VEHICLES AND EQUIPMENT THAT ENTERS THE WORK ZONE MORE THAN ONCE A DAY MUST BE EQUIPPED WITH AT LEAST ONE FLASHING, ROTATING, OR OSCILLATING AMBER LIGHT THAT IS VISIBLE IN ALL DIRECTIONS OR TRAFFIC FOR AT LEAST ONE QUARTER OF A MILE, DAY OR NIGHT. ANY VEHICLES FAILING TO MEET THIS REQUIREMENT ARE PROHIBITED FROM WORKING OR PARKING ON THE PROJECT. THE ENGINEER WILL SUSPEND ITEMS OF WORK INVOLVING VEHICLES WHICH FAIL TO MEET THIS REQUIREMENT.

ALL OTHER REQUIREMENTS AS SPECIFIED IN THE CMS UNDER 614.03, 614.035, ETC. SHALL APPLY AND THE MOST RESTRICTIVE GUIDANCE SHALL GOVERN IN THE CASE OF A CONFLICT.

DELAYS

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA WIDE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN ACCORDANCE WITH THE UNAUTHORIZED LANE USE TABLE.

COORDINATION WITH ADJACENT PROJECTS

THE CONTRACTOR SHALL COORDINATE WORK WITH THE FOLLOWING ADJACENT PROJECTS WHICH MAY BE ONGOING DURING THE WILKENS BLVD. CORRIDOR PROJECT.

* TO THE SOUTH, FIELDS-ERTEL RD. IMPROVEMENTS PROJECT.

ITEM 614 - DETOUR SIGNING

PROPOSED DETOUR SIGNING IS SHOWN ON THE DETOUR PLAN. SPECIFIC GUIDELINES FOR PLACING SIGNS ARE LISTED BELOW. SITE CONSTRAINTS AT THE TIME OF CONSTRUCTION AND MOT PHASING AND SIGNING FOR THE FIELDS ERTTEL WIDENING PROJECT WILL INFLUENCE SIGN PLACEMENT.

SIZE AND PLACEMENT OF DETOUR SIGNS (M4-9) SHOULD FOLLOW THE REQUIREMENTS OF THE OMUTCD SECTION 6F.03, SECTION 2A.11 AND TABLE 6F.01.

DETOUR SIGNING SHALL PROVIDE DRIVERS ADEQUATE TIME TO CLEARLY READ THE SIGNS AND MAKE THE PROPER DECISIONS AT EACH REQUIRED TURNING MOVEMENT. THE DESIGNATED DETOUR ROUTE SHALL BE SIGNED IN ACCORDANCE WITH THE REQUIREMENTS BELOW:

- * APPROXIMATELY 1500 FEET PRIOR TO TIP OF THE PAINTED GORE AT AN INTERCHANGE WHEN EXITING A HIGH SPEED (45 MPH OR HIGHER) FACILITY.

- * AT OR NEAR THE EXISTING LANE ASSIGNMENT SIGN OR EXISTING ROUTE MARKER AT THE END OF AN EXIT RAMP.

- * APPROXIMATELY 500 FEET PRIOR TO A REQUIRED TURN AT AN INTERSECTION NOT CONTROLLED BY A STOP SIGN (FOR 45 MPH OR HIGHER ONLY).

- * AT OR NEAR THE EXISTING LANE ASSIGNMENT SIGN OR EXISTING ROUTE MARKER AT AN INTERSECTION.

- * EVERY TWO BLOCKS ALONG A TANGENT SECTION BETWEEN TURNING MOVEMENTS WITHIN A CITY.

- * AT ANY OTHER INTERSECTION OR DECISION POINT WHERE THE DETOUR ROUTE IS CONTRARY TO THE NORMAL, EXPECTED TURNING MANEUVER OR OTHERWISE UNCLEAR.

DETOUR SIGNS SHALL BE PLACED, WHEN POSSIBLE, NEXT TO BUT NOT BLOCKING EXISTING ROUTE MARKERS OR LANE ASSIGNMENT SIGNS. DETOUR SIGNS SHALL NOT OBSCURE OR BE OBSCURED BY OTHER EXISTING OR TEMPORARY SIGNS.

DETOUR SIGNS SHALL BE ERECTED AND/OR UNCOVERED PRIOR TO THE ROAD BEING CLOSED TO TRAFFIC BUT NO EARLIER THAN FOUR HOURS PRIOR TO THE CLOSURE. DETOUR SIGNS SHALL BE COVERED AND/OR REMOVED NO LATER THAN FOUR HOURS FOLLOWING THE ROAD RE-OPENING TO TRAFFIC.

PAYMENT FOR ACCEPTED QUANTITIES WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR FURNISHING, PROPER SIGN PLACEMENT AND SIZING, TIMELY ERECTING AND/OR UNCOVERING OF SIGNS, MAINTAINING SIGNS, AND TIMELY COVERING AND/OR REMOVING SIGNS AND SUPPORTS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614 - DETOUR SIGNING, AS PER PLAN **LS LUMP SUM**

ITEM 614 - REPLACEMENT SIGN

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

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

AN ESTIMATED QUANTITY OF **5 EACH** HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

ITEM 614 - REPLACEMENT DRUM

DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT DRUM, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

AN ESTIMATED QUANTITY OF **10 EACH** HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

PERMANENT TRAFFIC CONTROL

ALL EXISTING AND PROPOSED PERMANENT TRAFFIC CONTROLS NOT IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROLS SHALL BE MAINTAINED THROUGHOUT THE PROJECT BY THE CONTRACTOR. THE CONTRACTOR SHALL CONTACT THE WARREN COUNTY ENGINEER'S OFFICE PRIOR TO DISTURBING OR RELOCATING ANY EXISTING SIGNING. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR MISSING, DAMAGED, AND IMPROPERLY PLACED TRAFFIC CONTROL DEVICES.

PEDESTRIAN DETOURING

THE EXISTING PROJECT AREA DOES NOT CURRENTLY HAVE A COMPLETE OR CONNECTED SIDEWALK NETWORK. THERE ARE VERY FEW SIDEWALKS THAT WILL NEED TO BE ADDRESSED DURING CONSTRUCTION. EXISTING SIDEWALK DETOURS SHALL BE AS DIRECTED BY THE ENGINEER AND SHALL BE ADDRESSED IN ACCORDANCE WITH THE ODOT SCD MT-110.10.

ALL MATERIALS, LABOR, EQUIPMENT, HARDWARE, AND INCIDENTALS REQUIRED FOR THE ABOVE WORK SHALL BE INCLUDED WITH ITEM 614, MAINTAINING TRAFFIC, LUMP SUM.

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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/ROAD 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, OR AS DIRECTED BY THE ENGINEER).

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).

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.

ITEM 614, BUSINESS ENTRANCE (M4-H15) SIGN, AS PER PLAN

THE BUSINESS ENTRANCE (M4-H15) SIGN SHOULD BE PROVIDED AT EACH TEMPORARILY RELOCATED COMMERCIAL DRIVEWAY FOR WHICH THE RELOCATION IS NOT OBVIOUS TO THE MOTORIST. THE PROJECT ENGINEER SHALL DETERMINE WHETHER OR NOT THE DRIVEWAY RELOCATION IS, OR IS NOT, OBVIOUS AND WHETHER OR NOT A SIGN SHOULD BE PROVIDED. ONLY ONE SIGN PER BUSINESS SHALL BE PERMITTED. THE SIGN SHALL BE 36 INCH X 48 INCH IN SIZE WITH TYPE G OR TYPE H ORANGE RETROREFLECTIVE SHEETING. THE SIGN LEGEND SHALL BE PLACED ON BOTH SIDES OF THE SIGN (BACK TO BACK). THE SIGN SHALL HAVE THE STANDARD M4-H15 LEGEND WITH THE WORD "BUSINESS" ON THE TOP LINE, EXCEPT UNDER UNUSUAL CIRCUMSTANCES WHERE IT MAY NOT BE INTUITIVE THAT A DRIVEWAY SERVES A SPECIFIC BUSINESS. IN SUCH UNUSUAL CASES, THE ACTUAL BUSINESS NAME MAY BE SUBSTITUTED FOR THE WORD "BUSINESS".

THE SIGN SHALL BE MOUNTED ON TWO #3 POSTS OR ON TEMPORARY POSTS IN ACCORDANCE WITH SCD MT-105.10 AND IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. THE SIGN SHALL BE CLEARLY VISIBLE AND SHALL CLEARLY IDENTIFY THE LOCATION OF THE DRIVEWAY. THE SIGN SHOULD BE POSITIONED AT 90 DEGREES TO THE DIRECTION(S) OF TRAFFIC. THE SIGN MAY NEED TO BE MOVED FOR EACH PHASE OF THE MAINTENANCE OF TRAFFIC OPERATIONS.

PAYMENT FOR ALL COSTS ASSOCIATED WITH MANUFACTURING, MOUNTING, RELOCATING, AND REMOVING THE SIGN, INCLUDING ALL LABOR, MATERIALS AND EQUIPMENT SHALL BE INCLUDED IN THE CONTRACT PRICE PER EACH FOR ITEM 614-BUSINESS ENTRANCE SIGN.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THIS ITEM.

ITEM 614, BUSINESS ENTRANCE SIGN **6 EACH**

MAINTAINING DRAINAGE

THE CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION AT ALL TIMES. THIS SHALL BE ACHIEVED BY USE OF THE EXISTING DRAINAGE PIPES, DITCHES, CULVERTS, ETC. WHEN AT ALL POSSIBLE, AS WELL AS TEMPORARY AND PROPOSED DRAINAGE ITEMS AND TEMPORARY COFFERDAMS AND EXCAVATION BRACING AS NEEDED.

GENERALLY, THE EXISTING DRAINAGE DEVICES SHALL REMAIN IN PLACE AND IN OPERATION UNTIL THE PROPOSED FEATURES ARE CONSTRUCTED AND OPERATIONAL. WHEN EXISTING DEVICES ARE NO LONGER NEEDED THEY SHALL BE REMOVED IF POSSIBLE OR PROPERLY PLUGGED AND FILLED. COFFERDAMS AND EXCAVATION BRACING SHALL BE CONSIDERED INCIDENTAL TO THE DRAINAGE PAY ITEMS.

UNLESS SEPARATELY ITEMIZED IN THE PLANS OR COVERED BY OTHER SPECIFICATIONS, ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO MAINTAIN DRAINAGE DURING CONSTRUCTION, INCLUDING SUBSEQUENT REMOVAL OF ANY TEMPORARY ITEMS, AND/OR PLUGGING OR FILLING OF EXISTING OR TEMPORARY PIPES, SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 614, MAINTAINING TRAFFIC, LUMP.

IF LOW POINTS OR PONDING ARE OBSERVED DURING CONSTRUCTION, THE CONTRACTOR SHALL DEVISE A PLAN IN COORDINATION WITH THE ENGINEER AND PRESENT IT FOR APPROVAL. ADDITIONAL CONNECTIONS, INLETS OR PIPES MAY BE CONSTRUCTED TO REDUCE SUCH CONDITIONS DURING CONSTRUCTION AND WILL BE AS DIRECTED BY THE ENGINEER. CONTINGENCY QUANTITIES FOR THESE PURPOSES HAVE BEEN LISTED BELOW & CARRIED TO THE GENERAL SUMMARY.

ITEM 611, CONDUIT, 12" TYPE B **100 FT**
ITEM 611, CATCH BASIN, NO. 6 **2 EACH**
ITEM 611, CATCH BASIN, ADJUSTED TO GRADE **2 EACH**

MAINTAINING/TEMPORARY LIGHTING

THE CONTRACTOR SHALL MAINTAIN THE EXISTING LIGHTING AT THE NORTH LEG OF THE ROUNDABOUT. DUKE ENERGY WILL BE INSTALLING PERMANENT LIGHTING FOR THE PROJECT, HOWEVER, IF THE PERMANENT LIGHTING IS NOT INSTALLED IN TIME FOR THE OPENING OF THE ROUNDABOUT TO TRAFFIC, THE CONTRACTOR SHALL INSTALL TEMPORARY LIGHT POLES AND LUMINAIRES TO REMIAN IN PLACE UNTIL SUCH TIME THE PERMANENT LIGHTING IS INSTALLED AND IS OPERTATIONAL. TEMPORARY LIGHTING SHALL CONSIST OF TWO 30-FT WOOD POLES WITH STANDARD STREET LIGHT LUMINAIRES. ONE AT EACH OF THE SOUTH AND EAST LEGS OF THE ROUNDABOUT AS DIRECTED AND AT THE APPROVAL OF THE ENGINEER.

ALL LABOR, EQUIPMENT, MATERIALS, POWER SERVICE, COORDINATION AND OTHER INCIDENTAL COSTS REQUIRED TO INSTALL, MAINTAIN, AND SUBSEQUENTLY REMOVE TEMPORARY LIGHTING SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 614, MAINTAINING TRAFFIC, LUMP.

ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN, AND REMOVE CHANGEABLE MESSAGE SIGNS FOR THE DURATION OF THE PROJECT. THE SIGNS SHALL BE OF A TYPE APPROVED BY THE COUNTY.

EACH SIGN SHALL BE TRAILER MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM TO ADJUST THE BRIGHTNESS UNDER VARYING LIGHT CONDITIONS AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL HAVE OPERATION INSTRUCTIONS TO ENABLE ON-SITE OPERATION AND TROUBLESHOOTING. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY.

PCMS'S SHALL BE IN PLACE ONE WEEK PRIOR TO CONSTRUCTION TO ADVISE THE PUBLIC. AT LEAST ONE PCMS SHALL BE LOCATED ON EACH APPROACH, IN ADVANCE OF THE WORK AREA. OTHER PCMS'S MAY BE REQUIRED IN ADVANCE OF DETOURS. THEY SHALL BE PLACED IN A HIGHLY VISIBLE LOCATION, AS APPROVED BY THE ENGINEER, AND PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE OFF, FACING AWAY FROM ALL TRAFFIC AND SHALL DISPLAY ONE OR MORE HIGH INTENSITY YELLOW REFLECTIVE SHEETING SURFACES OF 9-INCH BY 15-INCH MINIMUM SIZE FACING TRAFFIC.

THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON BOARD COMPUTER. THE MESSAGE SEQUENCE TO BE DISPLAYED FOR THIS PROJECT IS SHOWN IN THE MAINTENANCE OF TRAFFIC PLAN. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THE PCMS SHALL HAVE A FULL MATRIX DISPLAY WITH THE ABILITY TO SHOW MULTIPLE LINE FORMATS WITH UP TO SIX MESSAGE PHASES. THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR TO HAVE THE COUNTY TAKE APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. ANY COSTS ACCRUED BY THE COUNTY WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON THEIR CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24 HOURS PER DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE. THE CONTRACTOR IS RESPONSIBLE FOR CHANGING MESSAGES WITHIN 2 HRS. FOLLOWING NOTIFICATION FROM THE ENGINEER.

PAYMENT FOR ITEM 614 PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN SHALL BE MADE AT THE CONTRACT UNIT PRICE BID PER SIGN-MONTH, AND SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE, AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GEN. SUMMARY: ITEM 614-PORTABLE CHANGEABLE MESSAGE SIGN, A.P.P. **12 SIGN-MONTH**

STAGE 1	STAGE 2	STAGE 1	STAGE 2
WILKENS RD	FOLLOW	BARDES RD	FOLLOW
CLOSED	DETOUR	CLOSED	DETOUR
AHEAD		AHEAD	

SUGGESTED MESSAGES FOR PCMS PLACED IN ADVANCE OF DETOUR ROUTES OR AS DIRECTED BY THE ENGINEER.

SEQUENCE OF CONSTRUCTION

A PRE-MAINTENANCE OF TRAFFIC MEETING SHALL BE HELD (MINIMUM 10 WORK DAYS) PRIOR TO WORK BEGINNING OR ANY CHANGE OF PHASING. THIS MEETING SHALL INCLUDE THE COUNTY ENGINEER'S OFFICE AS WELL AS THE CONTRACTOR AND ANY SUB-CONTRACTORS INVOLVED WITH TEMPORARY TRAFFIC CONTROL.

PHASE I

THE CONTRACTOR SHALL PERFORM THE FOLLOWING WORK SEQUENTIALLY IN THIS PHASE:

INSTALL DETOUR SIGNAGE TO REROUTE TRAFFIC AROUND THE WILKENS BOULEVARD AT BARDES ROAD INTERSECTION. CLOSE WILKENS BOULEVARD, 400' NORTH OF BARDES ROAD. CLOSE WILKENS BOULEVARD, AT ITS INTERSECTION WITH PASSPORT DRIVE. CLOSE BARDES ROAD AT STA. 48+00, SEE DETAIL OF THIS LOCATION ON THE PHASE 1 DETOUR PLAN.

CONSTRUCT THE WIDENING OF NB WILKENS BOULEVARD NEAR MERTEN DRIVE. THIS WILL ALLOW FOR 2 WAY TRAFFIC TO BE MAINTAINED TO THE MINI STORAGE DEPOT BY UTILIZING THE NB SIDE OF GRASS MEDIAN ON WILKENS BOULEVARD. THIS WORK SHOULD BE CONSTRUCTED FIRST.

PHASE THE ROUNDABOUT OR USE PART-WIDTH CONSTRUCTION TO MAINTAIN DRIVE ACCESS TO THE SELF-STORAGE FACILITY ON THE WEST SIDE OF WILKENS BOULEVARD OR CONSTRUCT A TEMPORARY 300'+/- LONG DRIVE JUST WEST OF THE WILKENS BLVD. IMPROVEMENTS. (INSTALLING A DRIVE ALONG WITH REMOVAL AND RESTORATION OF ANY IMPACTED EXISTING FEATURES SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC, LUMP SUM.)

CONSTRUCT ROUNDABOUT AND COMPLETE ALL WORK ON WILKENS BOULEVARD. CONSTRUCT BARDES ROAD FROM THE WILKENS BOULEVARD INTERSECTION, EAST TO STA. 48+00 OF BARDES ROAD.

THIS CONSTRUCTION SHOULD BE COORDINATED WITH THE FIELDS-ERTEL RD. (HAM-C.R. 4/WAR-C.R. 1) SNIDER RD. (HAM-C.R. 277/WAR-C.R. 58) PROJECT. IT IS ANTICIPATED THAT IT WILL BE CONSTRUCTED CONCURRENTLY WITH PHASE 1 - STEP 2 WHEN THE NORTH SIDE OF FIELDS-ERTEL ROAD AND WILKENS BOULEVARD INTERSECTION AREA IS CLOSED AND RE-CONSTRUCTED.

ALL WORK INCLUDING THE FINAL SURFACE COURSE, PAVEMENT MARKINGS AND FINAL SIGNING TO BE CONSTRUCTED DURING THE FIRST SEASON OF THE FIELDS-ERTEL RD. (HAM-C.R. 4/WAR-C.R. 1) SNIDER RD. (HAM-C.R. 277/WAR-C.R. 58) PROJECT.

DESIGN AGENCY



WSP USA, Inc.
312 Elm Street,
Suite 2500
Cincinnati, OH 45202

DESIGNER

JRW

REVIEWER

EJC 01/30/24

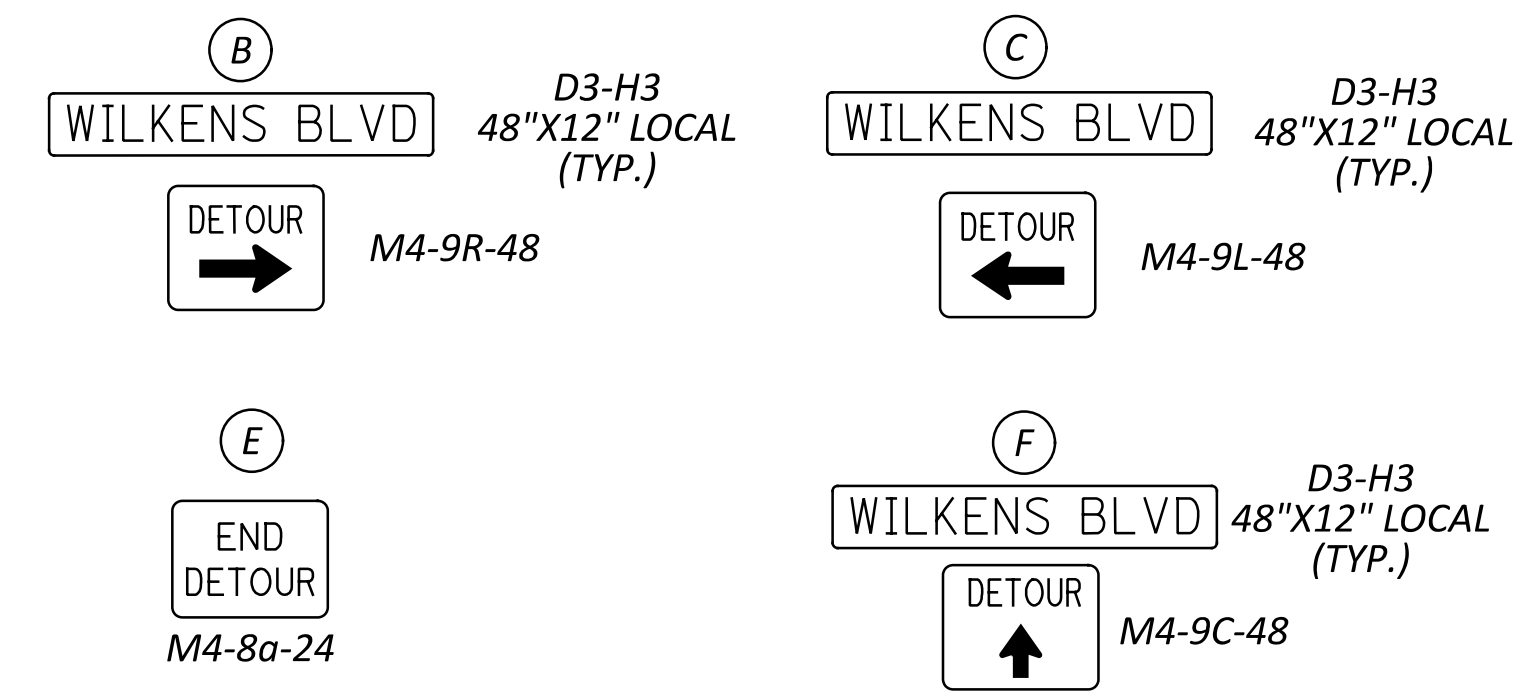
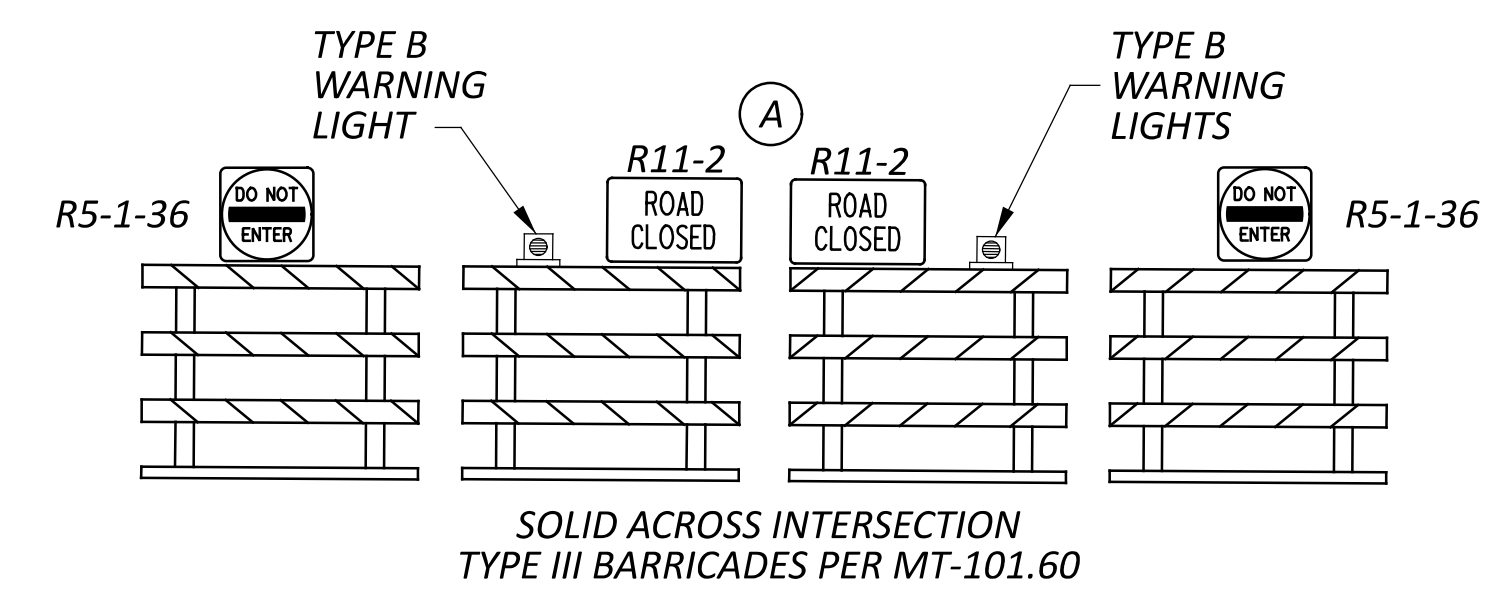
PROJECT ID

29076

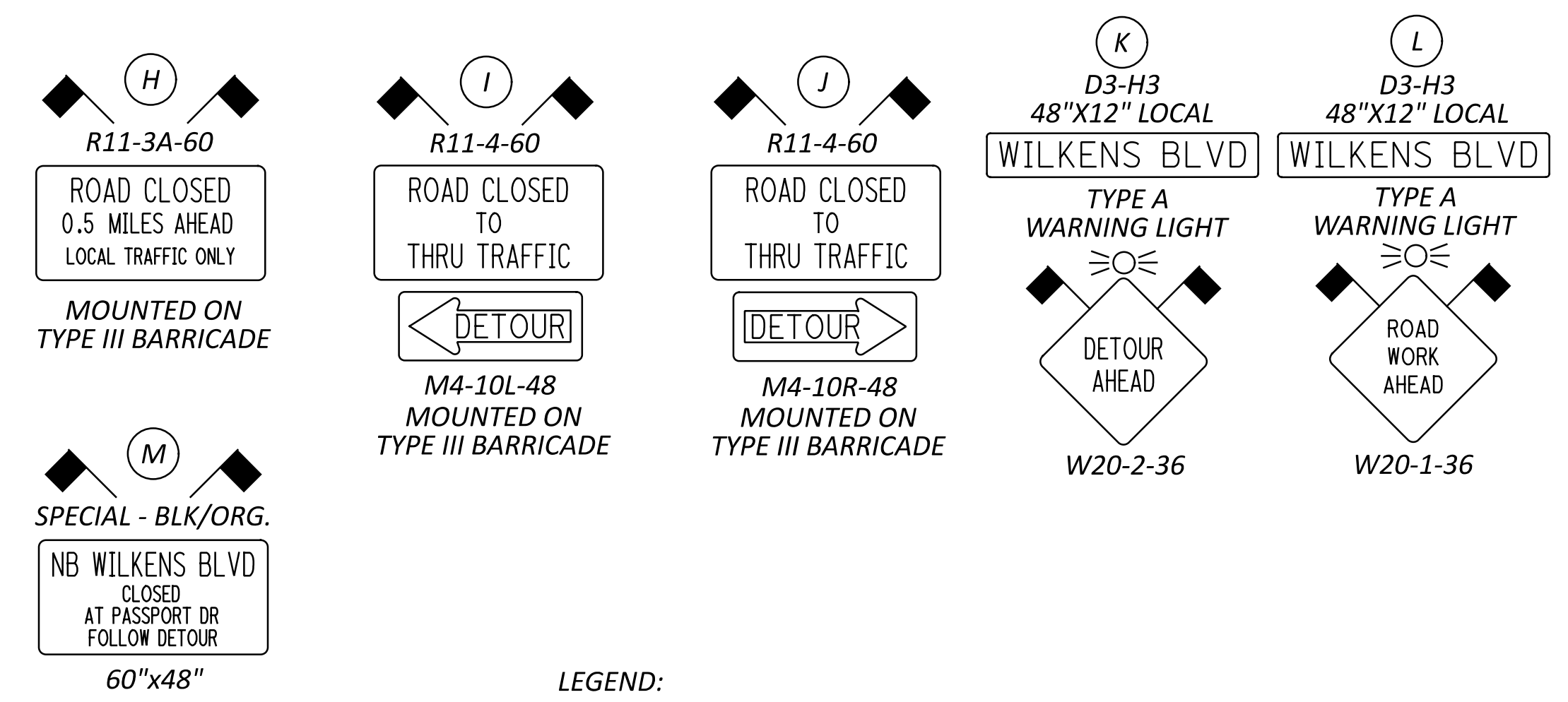
SHEET TOTAL

14 | 76

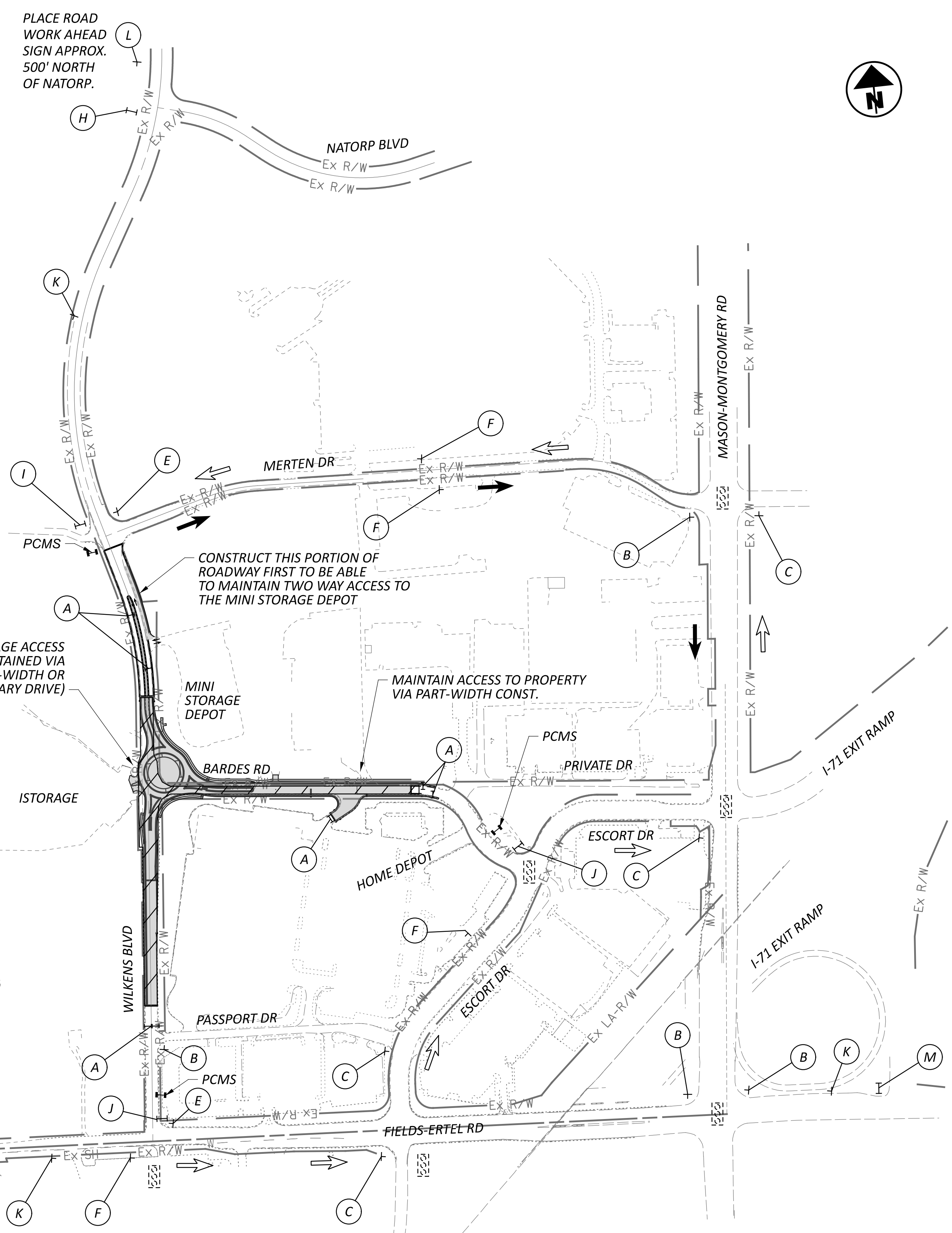
NOTE: IF THIS PROJECT IS CONSTRUCTED AT THE SAME TIME AS THE FIELDS-ERTEL ROAD WIDENING, WILKENS BLVD. FROM PASSPORT DRIVE TO FIELDS-ERTEL ROAD WILL BE CLOSED AS WELL.



NOTE: SEE "DETOUR SIGNING" NOTES FOR ADDITIONAL GUIDANCE.



- LEGEND:
- SIGN
 - TYPE III BARRICADE
 - PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
 - ROAD CLOSURE
 - AREA UNDER CONSTRUCTION
 - EXISTING TRAFFIC SIGNAL
 - TRAFFIC FLOW ARROW WILKENS SB DETOUR
 - TRAFFIC FLOW ARROW WILKENS NB DETOUR

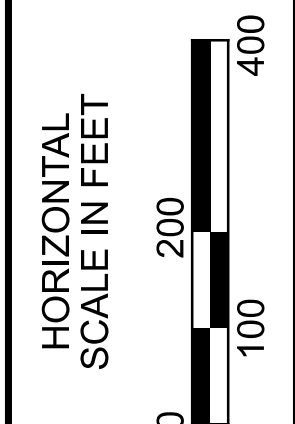
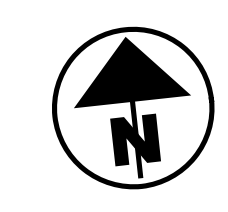


PLACE ROAD WORK AHEAD SIGN APPROX. 500' NORTH OF NATORP.

CONSTRUCT THIS PORTION OF ROADWAY FIRST TO BE ABLE TO MAINTAIN TWO WAY ACCESS TO THE MINI STORAGE DEPOT

ISTORAGE ACCESS (TO BE MAINTAINED VIA PART-WIDTH OR TEMPORARY DRIVE)

MAINTAIN ACCESS TO PROPERTY VIA PART-WIDTH CONST.



MAINTENANCE OF TRAFFIC
DETOUR PLAN - PHASE 1

DESIGN AGENCY



WSP USA, Inc.
312 Elm Street,
Suite 2500
Cincinnati, OH 45202

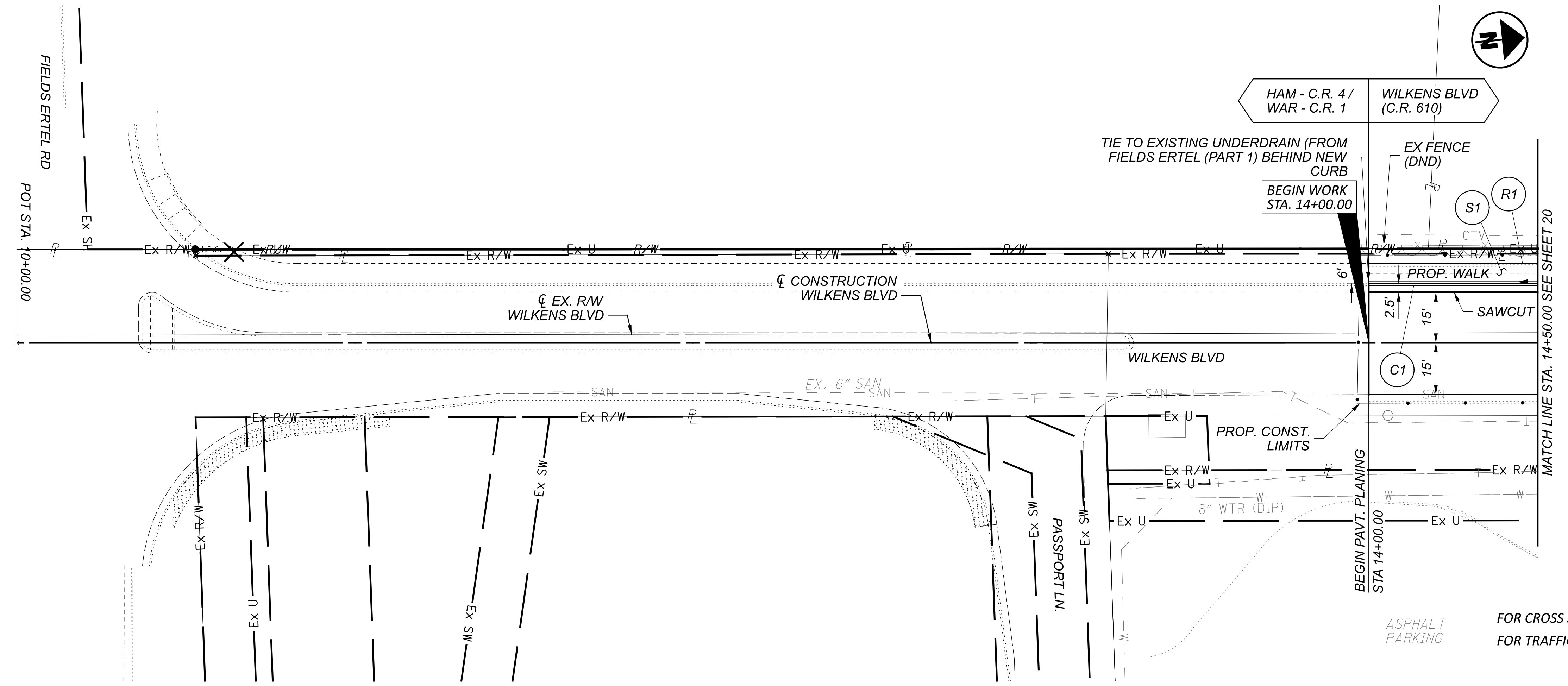
DESIGNER
EJC

REVIEWER
ABS 01/30/24

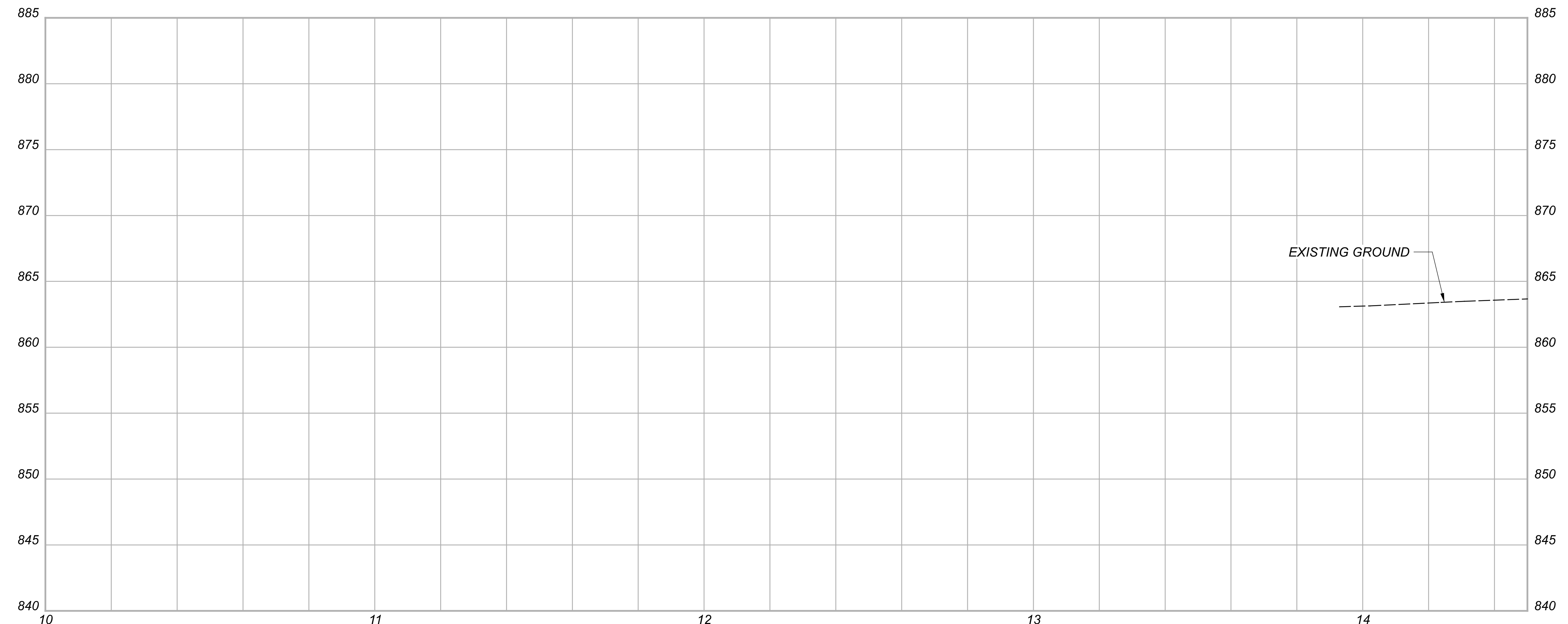
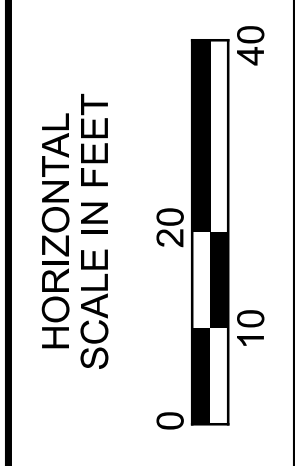
PROJECT ID
29076

SHEET TOTAL
15 76

SHEET NUM.												PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.	
											11 to 13		ITEM	EXT	TOTAL				
MAINTENANCE OF TRAFFIC																			
													6	410	12000	6	CY	TRAFFIC COMPACTED SURFACE, TYPE A OR B	
													100	611	04400	100	FT	12" CONDUIT, TYPE B	
													2	611	98370	2	EACH	CATCH BASIN, NO. 6	
													2	611	98630	2	EACH	CATCH BASIN ADJUSTED TO GRADE	
													40	614	11110	40	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
													LUMP	614	12421	LS		DETOUR SIGNING, AS PER PLAN	12 & 15
													5	614	12500	5	EACH	REPLACEMENT SIGN	
													10	614	12600	10	EACH	REPLACEMENT DRUM	
													3	614	13000	3	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
													12	614	18600	12	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN	
													0.5	614	21550	0.5	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
													200	614	23690	200	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT	
													31	614	26610	31	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
													6	614	40050	6	EACH	BUSINESS ENTRANCE SIGN	
													58	616	10000	58	MGAL	WATER	
INCIDENTALS																			
														614	11000	LS		MAINTAINING TRAFFIC	
														619	16010	8	MNTH	FIELD OFFICE, TYPE B	
														623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
														624	10000	LS		MOBILIZATION	



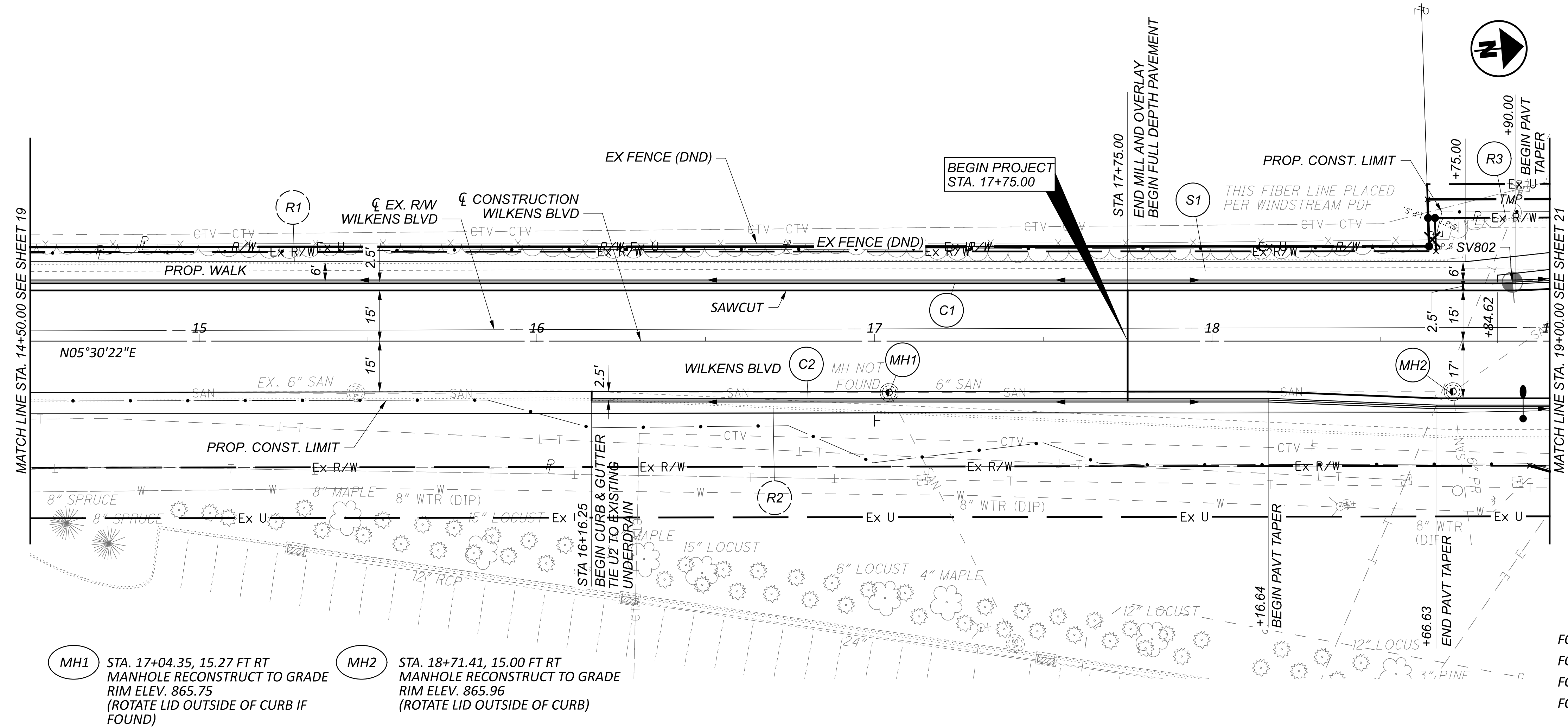
- LEGEND**
- FOC = FACE OF CURB
 - TBR = TO BE REMOVED
 - ATG = ADJUST TO GRADE
 - TBRL = TO BE RELOCATED
 - DND = DO NOT DISTURB
 - PA = PREVIOUSLY ABANDONED
 - TBA = TO BE ABANDONED
 - P = PROP. DUKE RELOCATION
 - ◁ = PROP. DUKE DEAD MAN



FOR CROSS SECTIONS, SEE SHEET 30
 FOR TRAFFIC CONTROL, SEE SHEET 68

PLAN AND PROFILE
 STA. 10+00 TO STA. 14+50 - WILKENS BLVD.

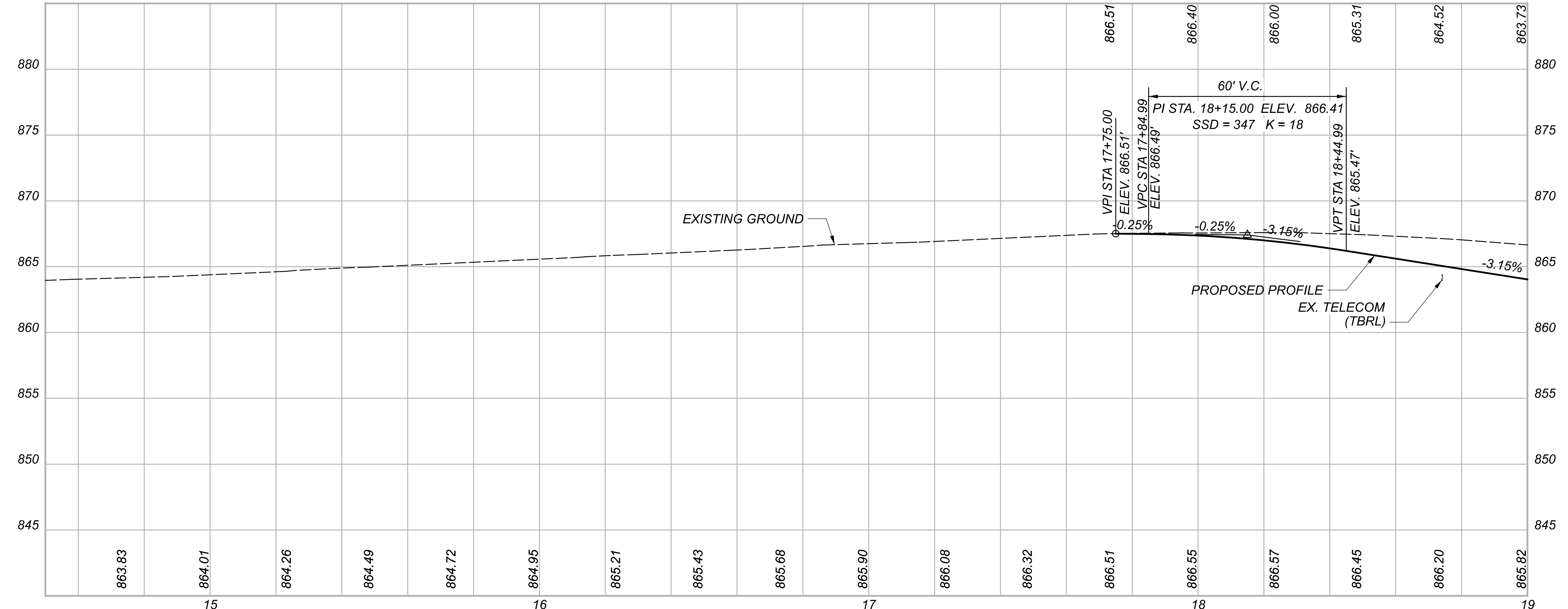
DESIGN AGENCY	
WSP USA, Inc. 312 Elm Street, Suite 2500 Cincinnati, OH 45202	
DESIGNER	
ATM	
REVIEWER	
ABS 01/30/24	
PROJECT ID	
29076	
SHEET	TOTAL
19	76



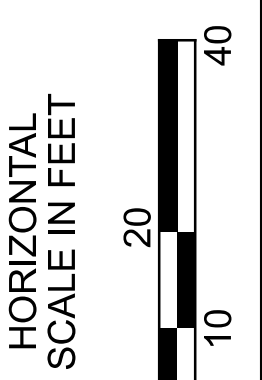
MH1 STA. 17+04.35, 15.27 FT RT
 MANHOLE RECONSTRUCT TO GRADE
 RIM ELEV. 865.75
 (ROTATE LID OUTSIDE OF CURB IF FOUND)

MH2 STA. 18+71.41, 15.00 FT RT
 MANHOLE RECONSTRUCT TO GRADE
 RIM ELEV. 865.96
 (ROTATE LID OUTSIDE OF CURB)

FOR CROSS SECTIONS, SEE SHEET 30
 FOR TRAFFIC CONTROL, SEE SHEET 68
 FOR LIGHTING PLAN, SEE SHEET 74
 FOR WATERLINE PLAN, SEE SHEET 63



- LEGEND**
- FOC = FACE OF CURB
 - TBR = TO BE REMOVED
 - ATG = ADJUST TO GRADE
 - TBRL = TO BE RELOCATED
 - DND = DO NOT DISTURB
 - PA = PREVIOUSLY ABANDONED
 - TBA = TO BE ABANDONED
 - P = PROP. DUKE RELOCATION
 - C = PROP. DUKE DEAD MAN

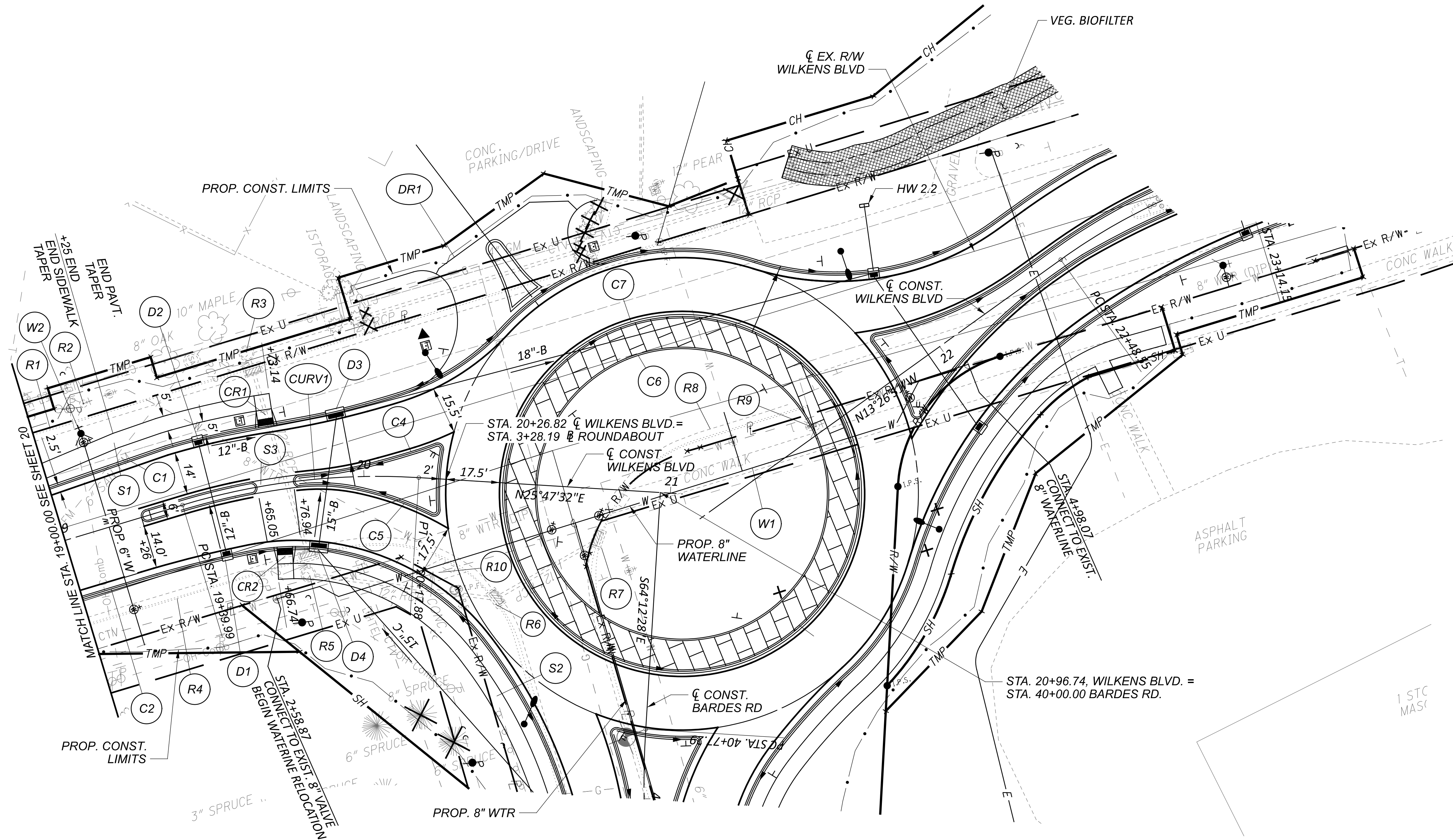


PLAN AND PROFILE
STA. 14+50 TO STA. 19+00 - WILKENS BLVD.

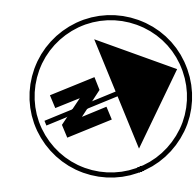
DESIGN AGENCY

 WSP USA, Inc.
 312 Elm Street,
 Suite 2500
 Cincinnati, OH 45202

DESIGNER	ATM
REVIEWER	ABS 01/30/24
PROJECT ID	29076
SHEET	TOTAL
20	76

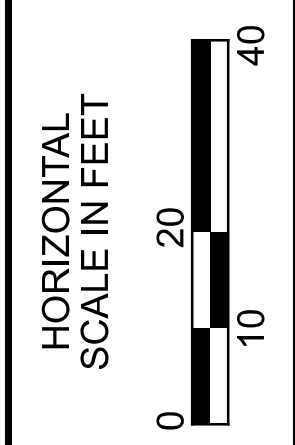


CURV1
 P.I. = STA. 19+79.34
 $\Delta = 20^\circ 17' 10''$ LT
 $D_c = 26^\circ 02' 37''$
 $R = 220.00'$
 $T = 39.36'$
 $L = 77.89'$
 $E = 3.49'$



- LEGEND**
- FOC = FACE OF CURB
 - TBR = TO BE REMOVED
 - ATG = ADJUST TO GRADE
 - TBRL = TO BE RELOCATED
 - DND = DO NOT DISTURB
 - PA = PREVIOUSLY ABANDONED
 - TBA = TO BE ABANDONED
 - PROP. DUKE RELOCATION
 - ◁ PROP. DUKE DEAD MAN

FOR PROFILE, SEE SHEET 22
 FOR ROUNDABOUT PROFILE, SEE SHEET 22
 FOR CROSS SECTIONS, SEE SHEET 34
 FOR LIGHTING PLAN, SEE SHEET 75
 FOR STORM PROFILE, SEE SHEET 56
 FOR DRIVE DETAIL, SEE SHEET 54
 FOR TRAFFIC CONTROL, SEE SHEET 69
 FOR WATERLINE PLAN, SEE SHEET 63

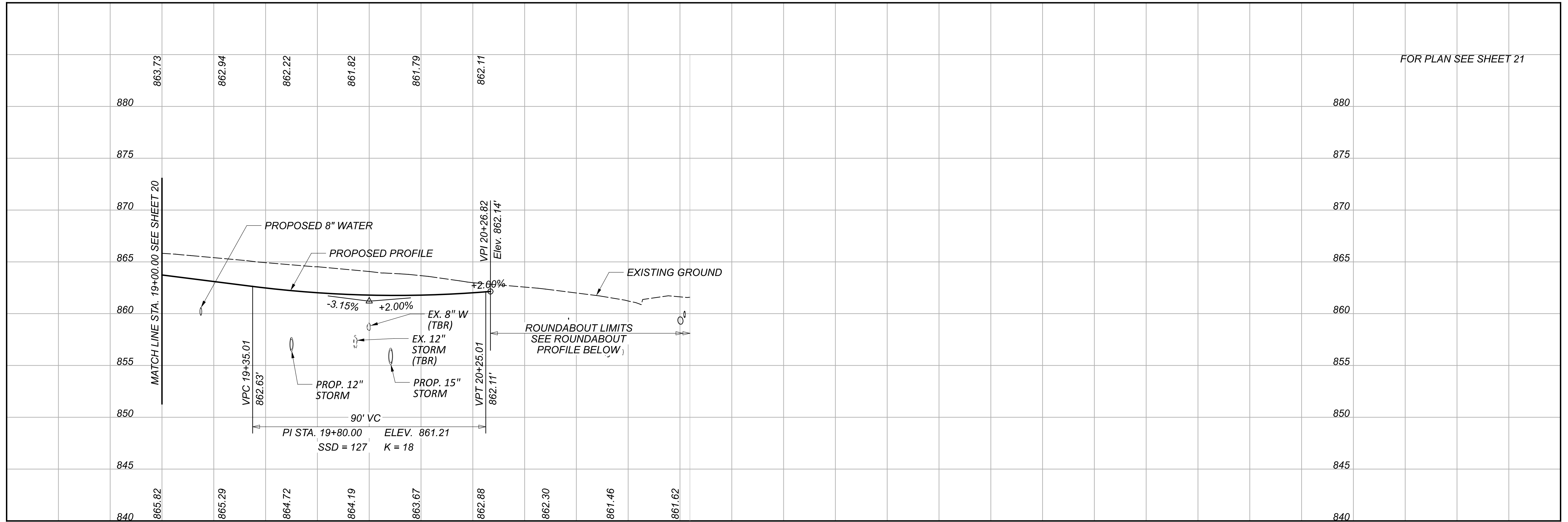


PLAN
STA. 19+00 TO STA. 21+03.82 - WILKENS BLVD.

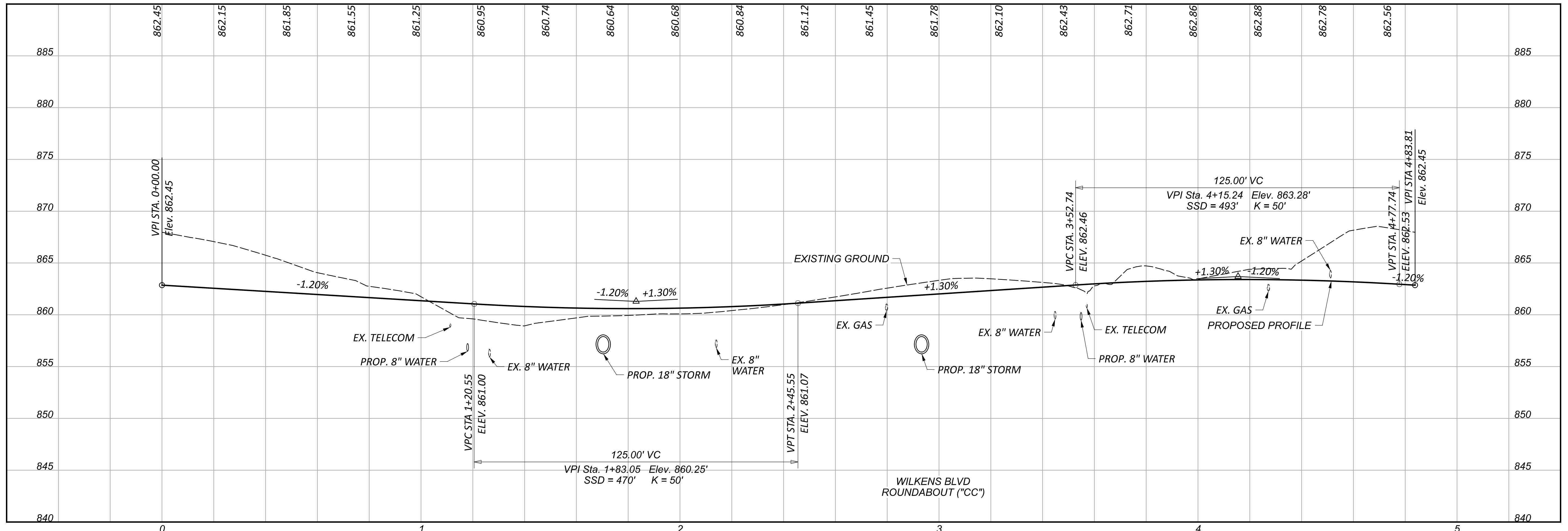
DESIGN AGENCY

 WSP USA, Inc.
 312 Elm Street,
 Suite 2500
 Cincinnati, OH 45202

DESIGNER	ATM
REVIEWER	ABS 01/30/24
PROJECT ID	29076
SHEET	TOTAL
21	76



FOR PLAN SEE SHEET 21



WILKENS BLVD
 ROUNDABOUT ("CC")

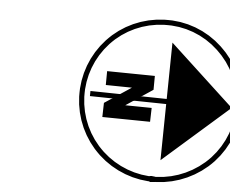
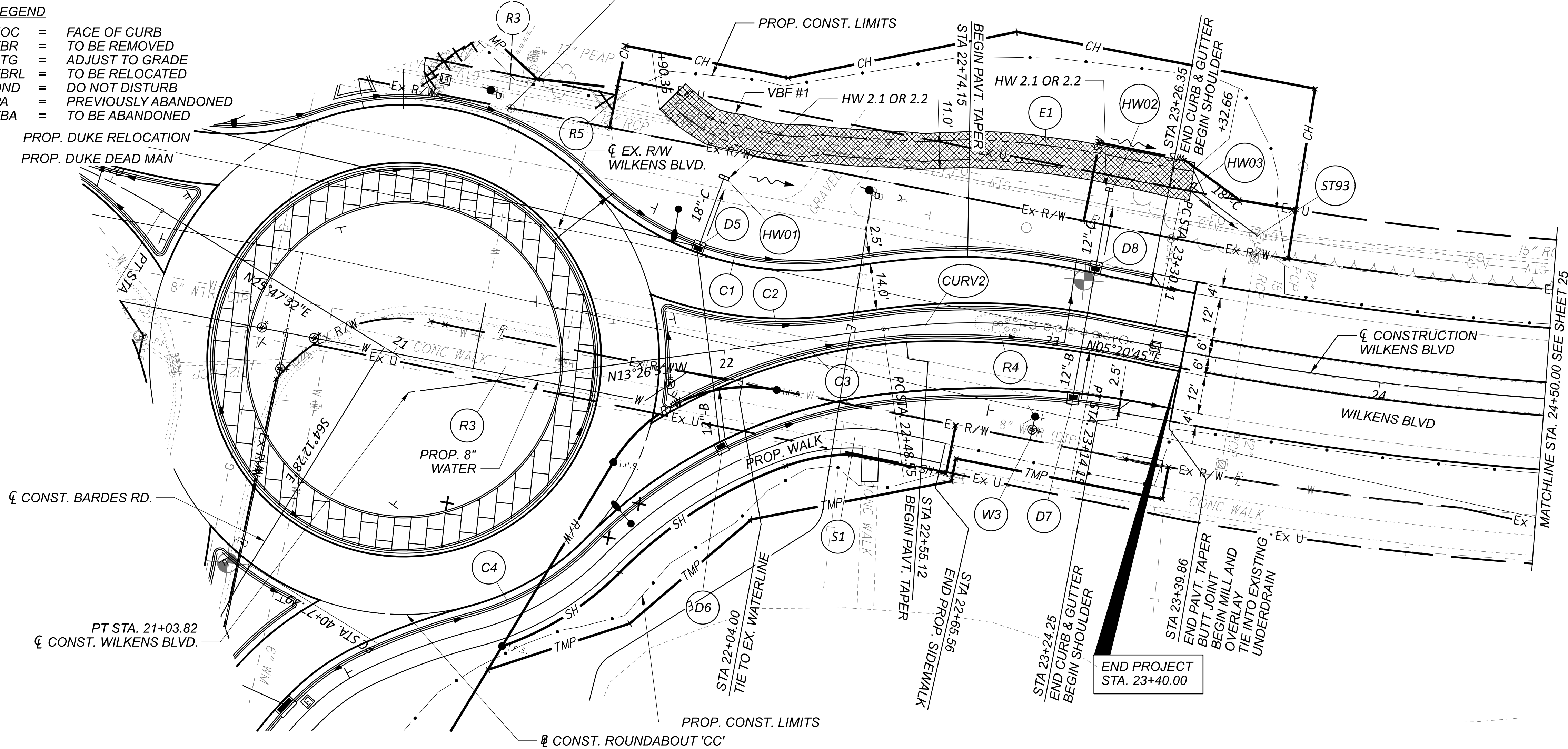
PROFILE - WILKENS BLVD. & ROUNDABOUT "CC"
 STA. 19+00.00 TO STA. 21+03.82

DESIGN AGENCY
WSP
 WSP USA, Inc.
 312 Elm Street,
 Suite 2500
 Cincinnati, OH 45202

DESIGNER
 ATM
 REVIEWER
 ABS 01/30/24
 PROJECT ID
 29076
 SHEET TOTAL
 22 76

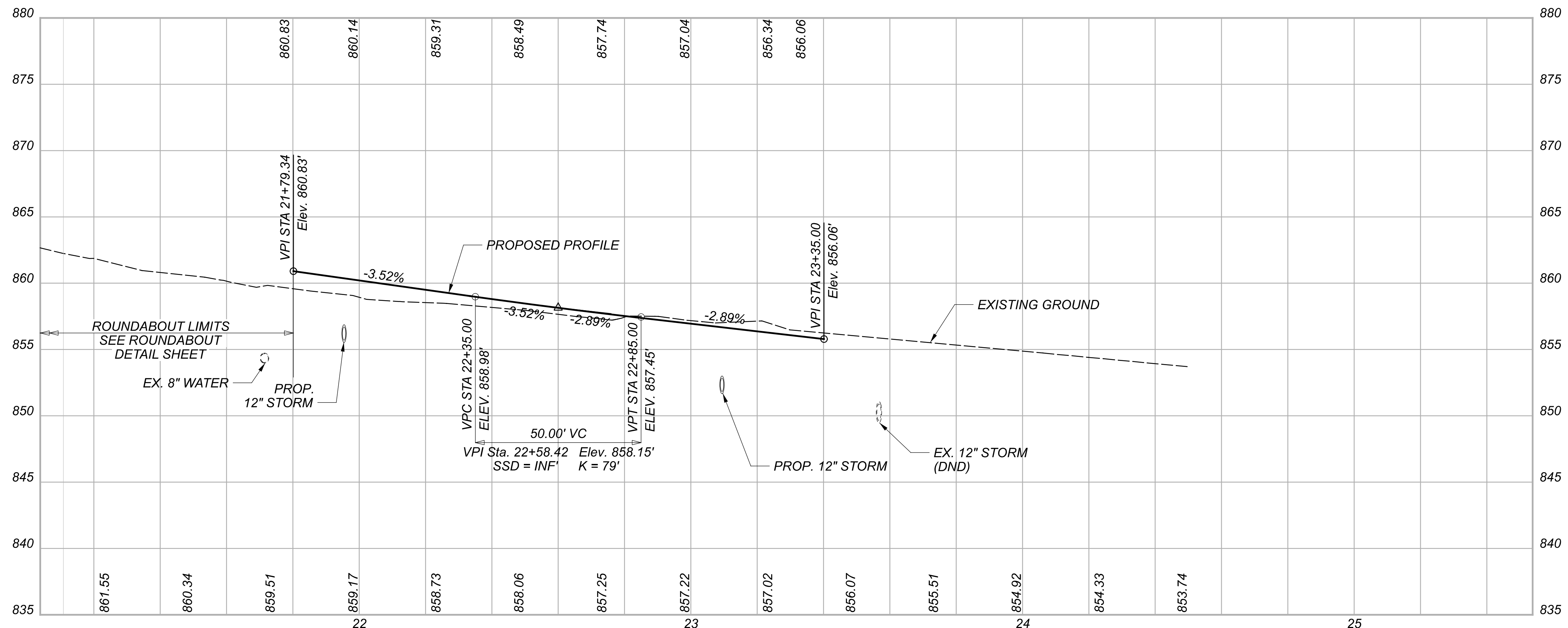
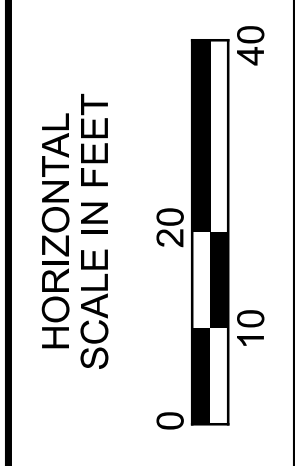
- LEGEND**
- FOC = FACE OF CURB
 - TBR = TO BE REMOVED
 - ATG = ADJUST TO GRADE
 - TBR1 = TO BE RELOCATED
 - DND = DO NOT DISTURB
 - PA = PREVIOUSLY ABANDONED
 - TBA = TO BE ABANDONED

PROP. DUKE RELOCATION
 PROP. DUKE DEAD MAN



FOR ROUNDABOUT PROFILE, SEE SHEET 22
 FOR CROSS SECTIONS, SEE SHEET 36
 FOR TRAFFIC CONTROL, SEE SHEET 69
 FOR LIGHTING PLAN, SEE SHEET 75
 FOR STORM PROFILE, SEE SHEET 56
 FOR WATERLINE PLAN, SEE SHEET 63

CURV2
 P.I. = STA. 22+81.64
 $\Delta = 18^\circ 47' 36''$ LT
 $D_c = 28^\circ 38' 52''$
 $R = 200.00'$
 $T = 33.10'$
 $L = 65.60'$
 $E = 2.72'$



PLAN AND PROFILE
 STA. 21+03.82 TO 24+50.00 - WILKENS BLVD

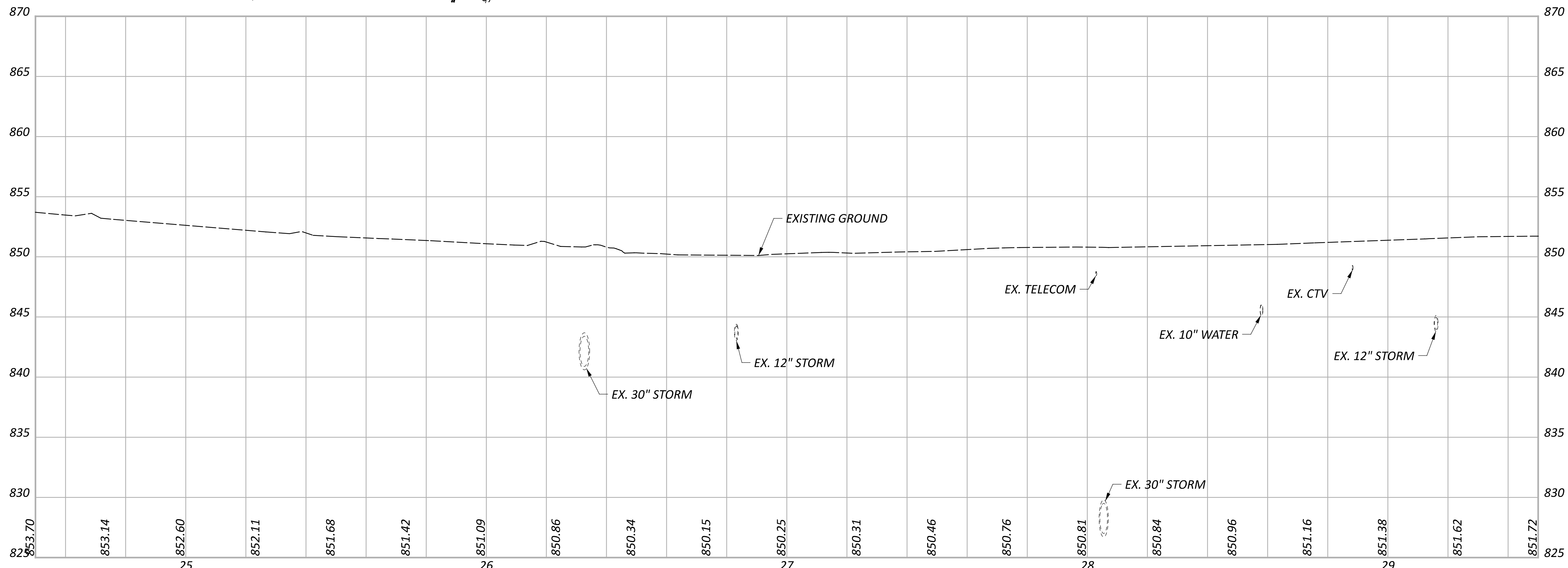
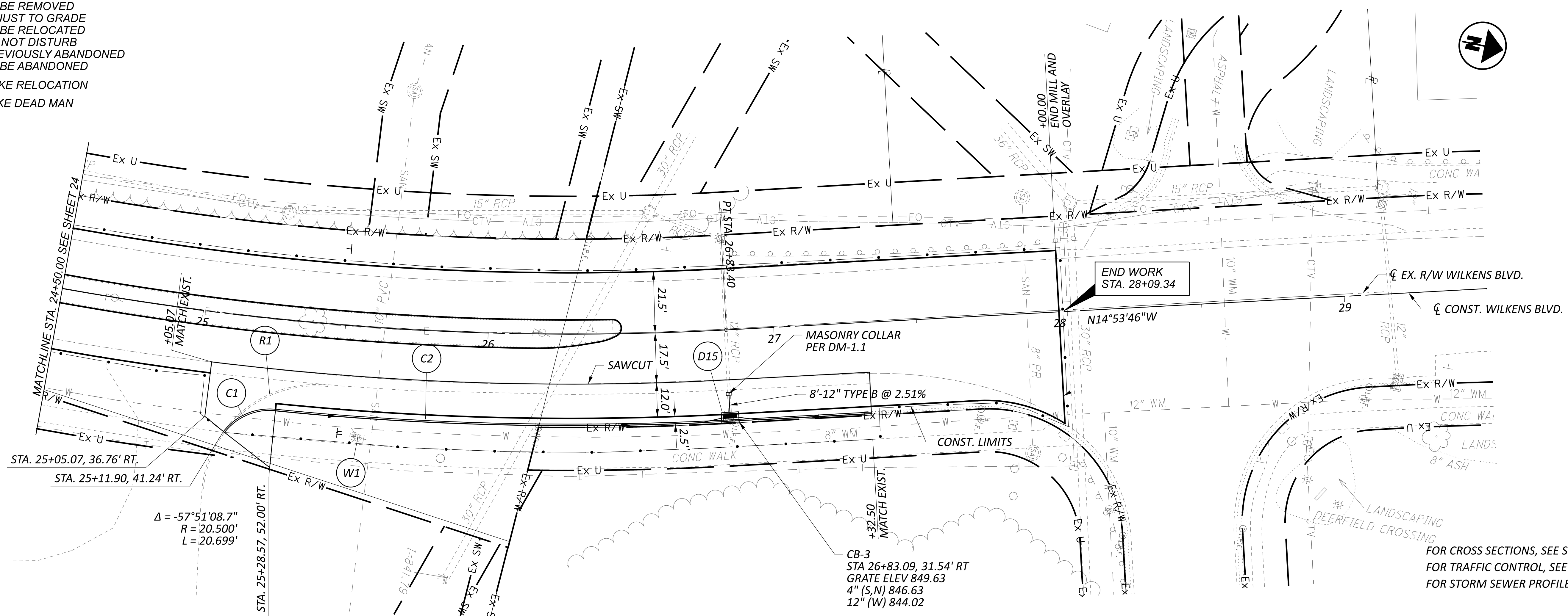
DESIGN AGENCY

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 Suite 2500
 Cincinnati, OH 45202

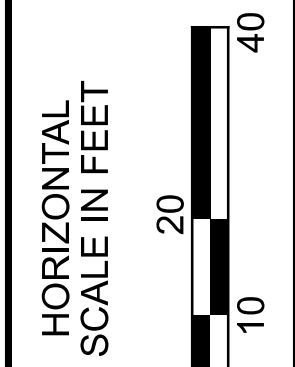
DESIGNER	ATM
REVIEWER	ABS 01/30/24
PROJECT ID	29076
SHEET	24
TOTAL	76

LEGEND

- FOC = FACE OF CURB
- TBR = TO BE REMOVED
- ATG = ADJUST TO GRADE
- TBRL = TO BE RELOCATED
- DND = DO NOT DISTURB
- PA = PREVIOUSLY ABANDONED
- TBA = TO BE ABANDONED
- ⊙ PROP. DUKE RELOCATION
- ◁ PROP. DUKE DEAD MAN



FOR CROSS SECTIONS, SEE SHEET 40
 FOR TRAFFIC CONTROL, SEE SHEET 71
 FOR STORM SEWER PROFILE, SEE SHEET 42



**PLAN AND PROFILE
 STA. 24+50 TO STA. 29+50 - WILKENS BLVD**

DESIGN AGENCY	
WSP USA, Inc. 312 Elm Street, Suite 2500 Cincinnati, OH 45202	
DESIGNER	
ATM	
REVIEWER	
ABS 01/30/24	
PROJECT ID	
29076	
SHEET	TOTAL
25	76

SHEET NO.	REF. NO.	STATION		SIDE	202				602	605	608	609		611				638				659	670				
					CURB REMOVED	WALK REMOVED	CONCRETE MEDIAN REMOVED	REMOVAL, MISC.: PRIVATE SIGN	CONCRETE MASONRY	4" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	5" CONCRETE WALK	COMBINATION CURB AND GUTTER, TYPE 2	CURB, TYPE 6	4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	4" CONDUIT, TYPE B	18" CONDUIT, TYPE C	12" CONDUIT, TYPE B	CATCH BASIN, NO. 3	CATCH BASIN, NO. 3A	SPECIAL - 6" WATER MAIN DIP CLASS 52 PUSH-ON JOINTS AND FITTINGS (WCW&S)	SPECIAL - 8" CUTTING-IN SLEEVE (WCW&S)	SPECIAL - 6" FIRE HYDRANT (WCW&S)	SPECIAL - FIRE HYDRANT ADJUSTED TO GRADE (WCW&S)	TOPSOIL	DITCH EROSION PROTECTION		
					FT	SF	SY	EA	CY	FT	SF	FT	FT	FT	FT	FT	FT	EA	EA	FT	EA	EA	EA	CY	SY		
24	R3	20+82	22+66	RT		1,095																					
24	R4	22+76	23+40	LT/RT	131		2																				
24	R5	21+70	21+81	LT			1																				
24	PV1	20+46	21+61	LT/RT																							
24	S1	40+77 (BARDES)	22+66	RT						975																	
24	C1	21+72	23+26	LT							134	179	10														
24	C2	21+82	23+40	LT							141		10														
24	C3	21+82	23+40	RT							113	176	10	26													
24	C4	40+77 (BARDES)	23+24	RT							253	246	20														
24	D5	21+97	22+06	LT				0.33						23			1										
24	D6	21+95	21+97	RT											61		1										
24	D7		23+09	RT											40		1										
24	D8		23+09	LT				0.21							24		1										
24	D9	23+33	23+56	LT				0.33						25													
24	W3		22+97	RT													7	1	1								
24	E1	21+92	23+33	LT																	20	200					
25	R1	25+12	25+46	RT	41																						
25	C1	25+12	25+29	RT								20															
25	C2	25+29	27+33	RT					184	229		20	20														
25	D15		26+83	RT										8	1												
25	W1		25+57	RT																		1					
TOTALS CARRIED TO THE GENERAL SUMMARY					172	1,095	2	1	0.9	825	975	654	371	70	26	48	133	1	4	7	1	1	1	20	200		

ESTIMATED QUANTITIES
 STA. 20+96.74 TO END WORK

DESIGN AGENCY

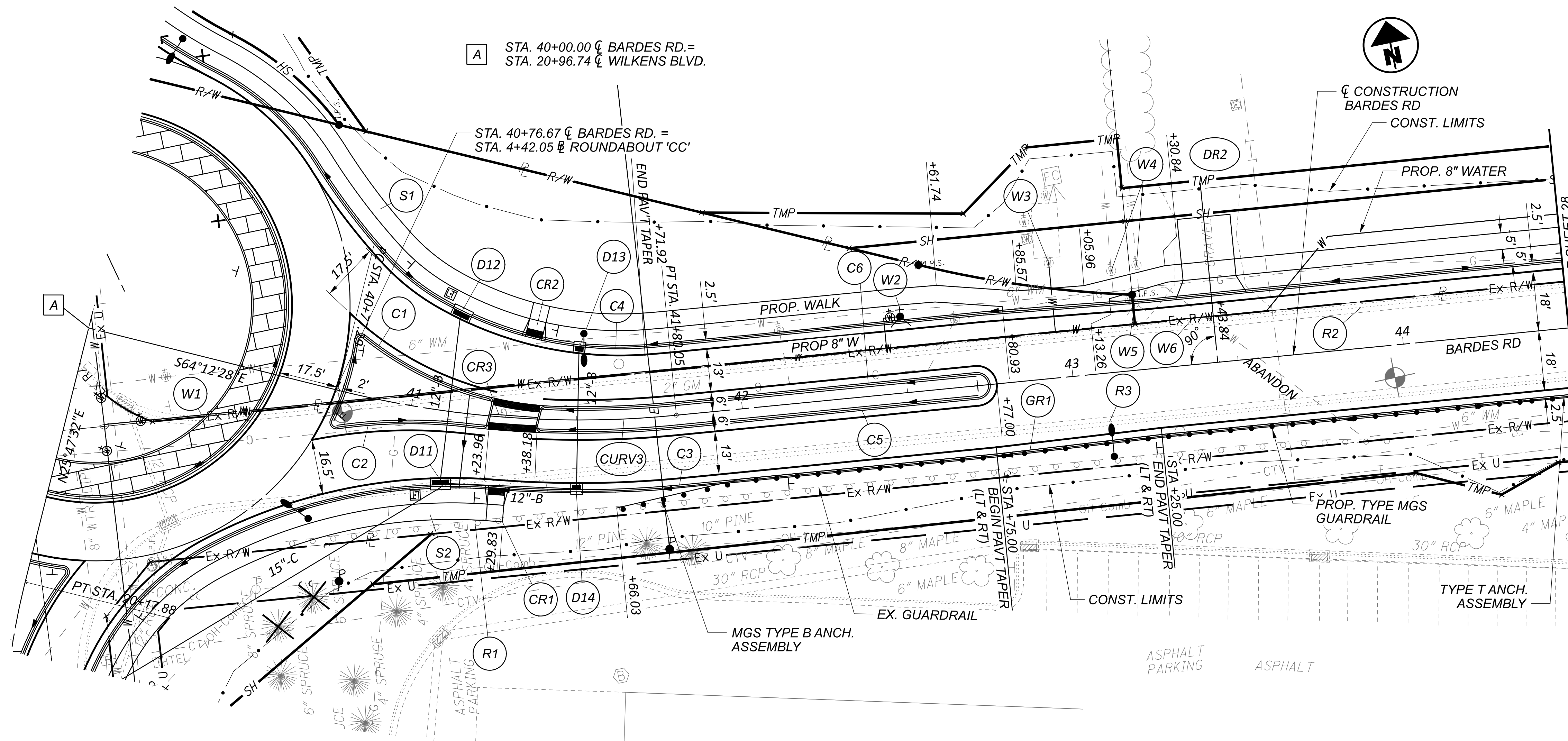
 WSP USA, Inc.
 312 Elm Street,
 Suite 2500
 Cincinnati, OH 45202

DESIGNER
 ATM

REVIEWER
 ABS 01/30/24

PROJECT ID
 29076

SHEET TOTAL
 26 76



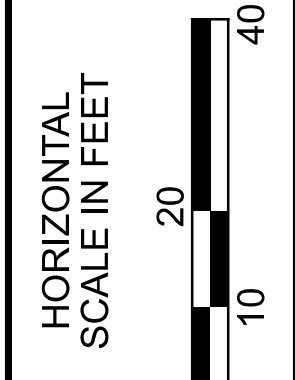
A STA. 40+00.00 CL BARDES RD. =
STA. 20+96.74 CL WILKENS BLVD.

STA. 40+76.67 CL BARDES RD. =
STA. 4+42.05 CL ROUNDABOUT 'CC'

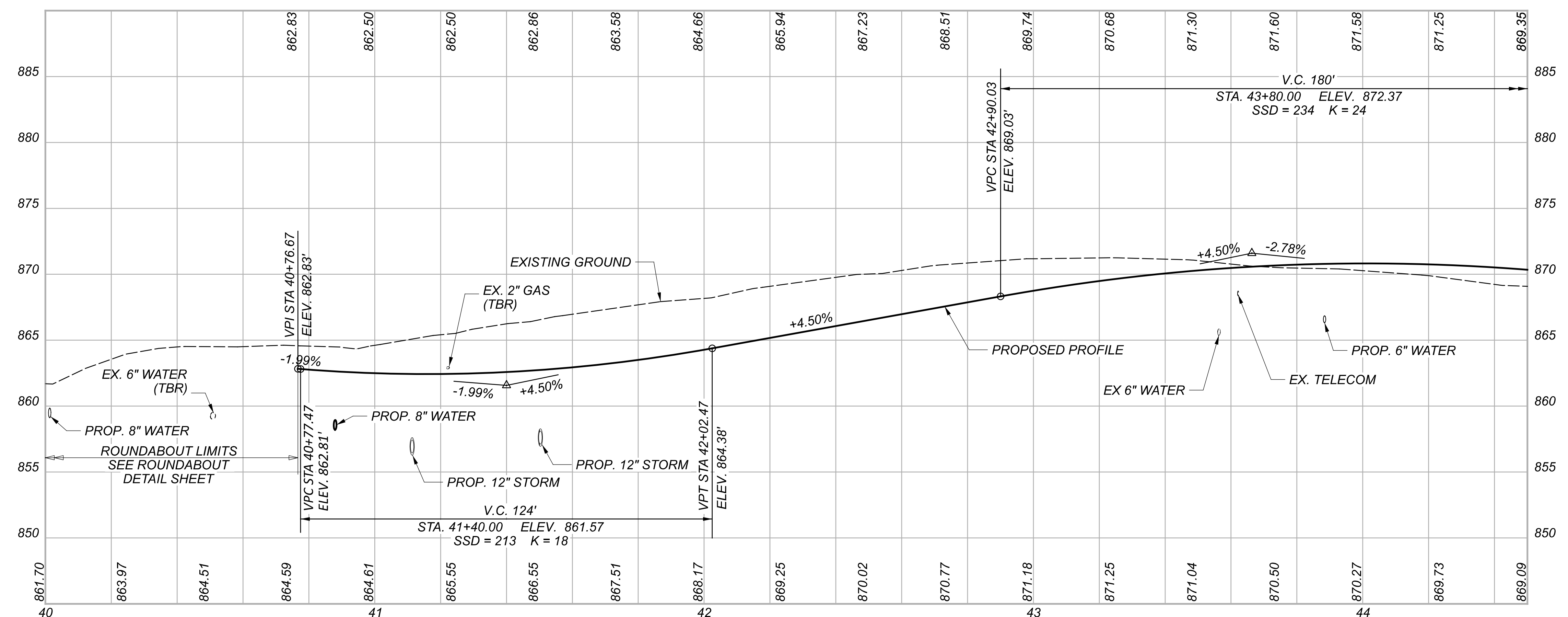
- LEGEND**
- FOC = FACE OF CURB
 - TBR = TO BE REMOVED
 - ATG = ADJUST TO GRADE
 - TBRL = TO BE RELOCATED
 - DND = DO NOT DISTURB
 - PA = PREVIOUSLY ABANDONED
 - TBA = TO BE ABANDONED
 - PROP. DUKE RELOCATION
 - ◁ PROP. DUKE DEAD MAN

CURV3
 P.I. = STA. 41+29.18
 $\Delta = 19^\circ 37' 29''$ LT
 $D_c = 19^\circ 05' 55''$
 $R = 300.00'$
 $T = 51.89'$
 $L = 102.76'$
 $E = 4.45'$

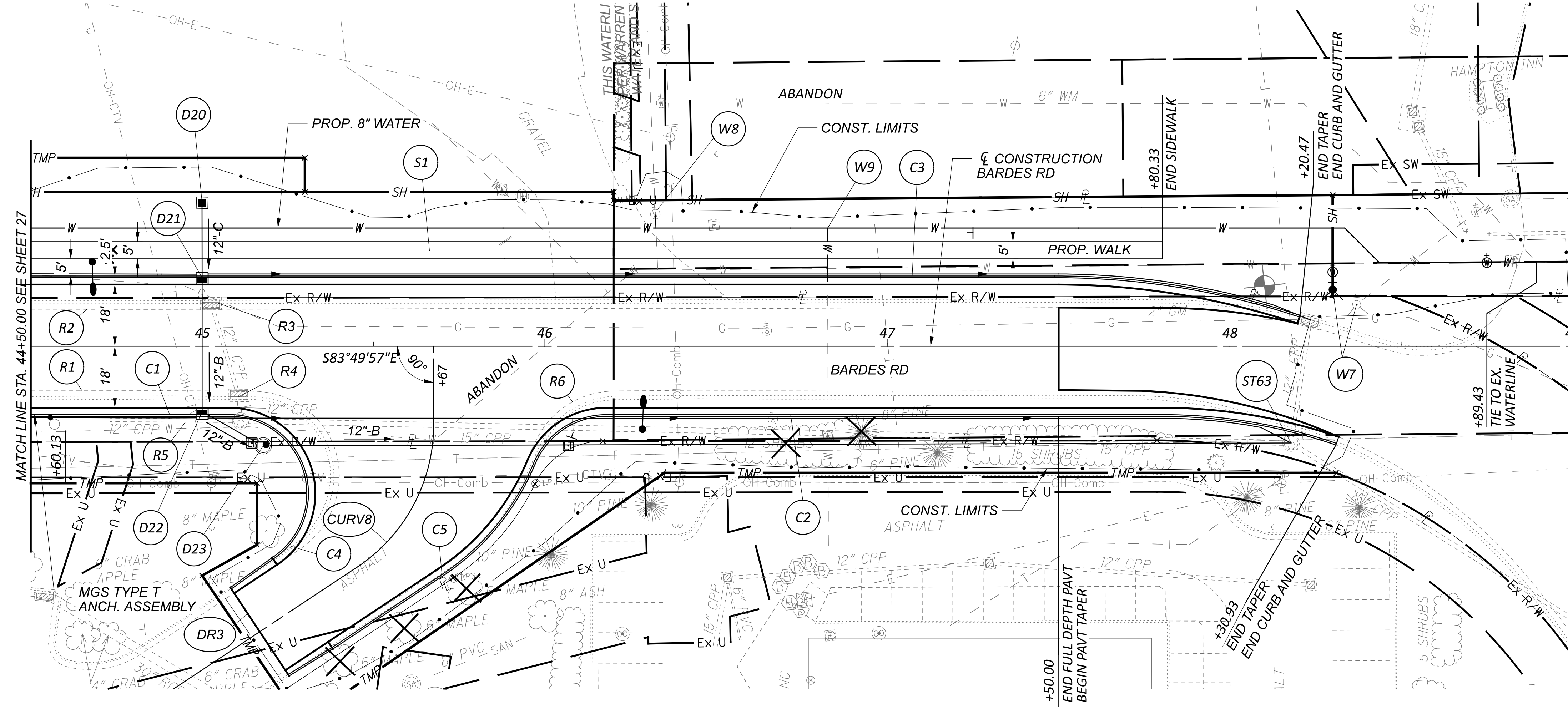
- FOR ROUNDABOUT PROFILE, SEE SHEET 24
- FOR CROSS SECTIONS, SEE SHEET 45
- FOR TRAFFIC CONTROL, SEE SHEET 69
- FOR LIGHTING PLAN, SEE SHEET 75
- FOR STORM PROFILE, SEE SHEET 56
- FOR DRIVE DETAIL, SEE SHEET 54
- FOR WATERLINE PLAN, SEE SHEET 61



PLAN AND PROFILE
STA. 40+00 TO STA. 44+50 - BARDES RD.

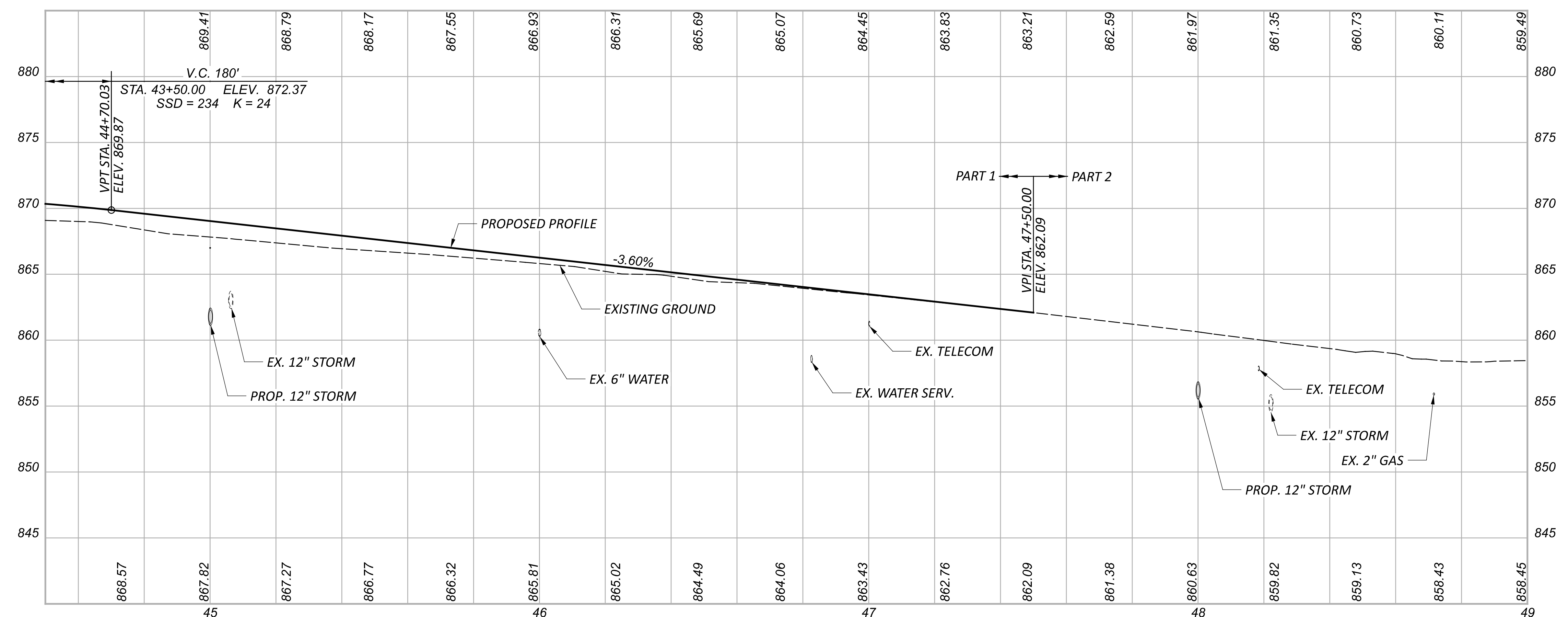
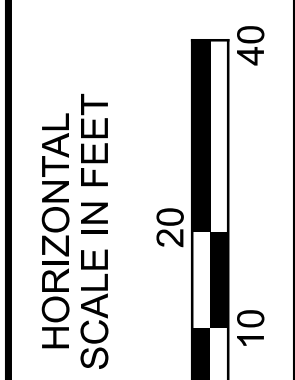


DESIGN AGENCY	
wsp	
WSP USA, Inc. 312 Elm Street, Suite 2500 Cincinnati, OH 45202	
DESIGNER	
ATM	
REVIEWER	
ABS 01/30/24	
PROJECT ID	
29076	
SHEET	TOTAL
27	76



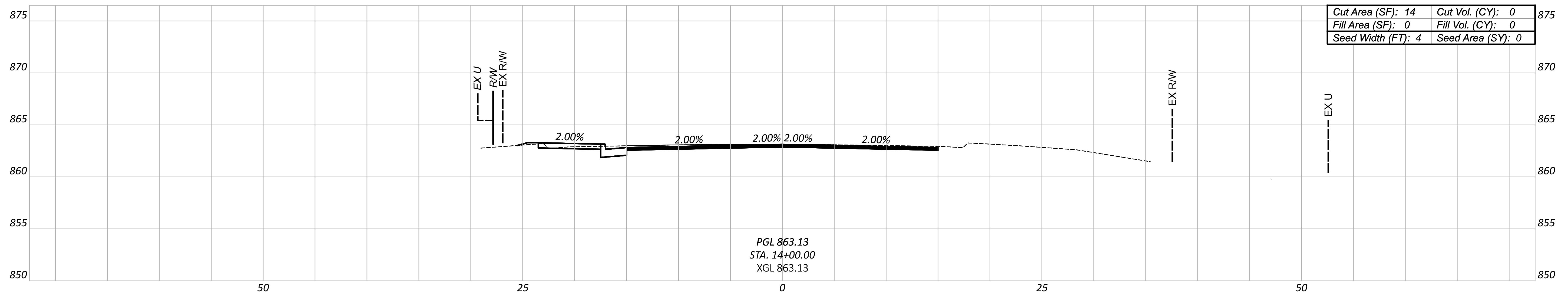
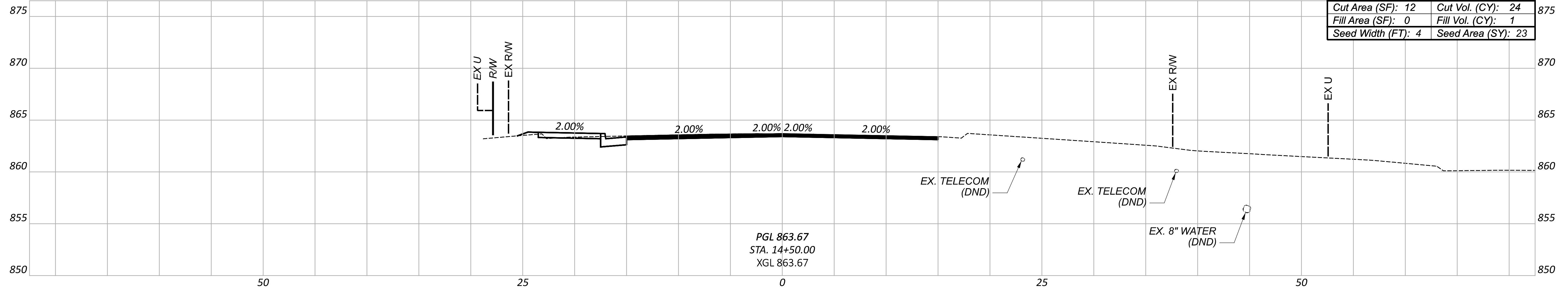
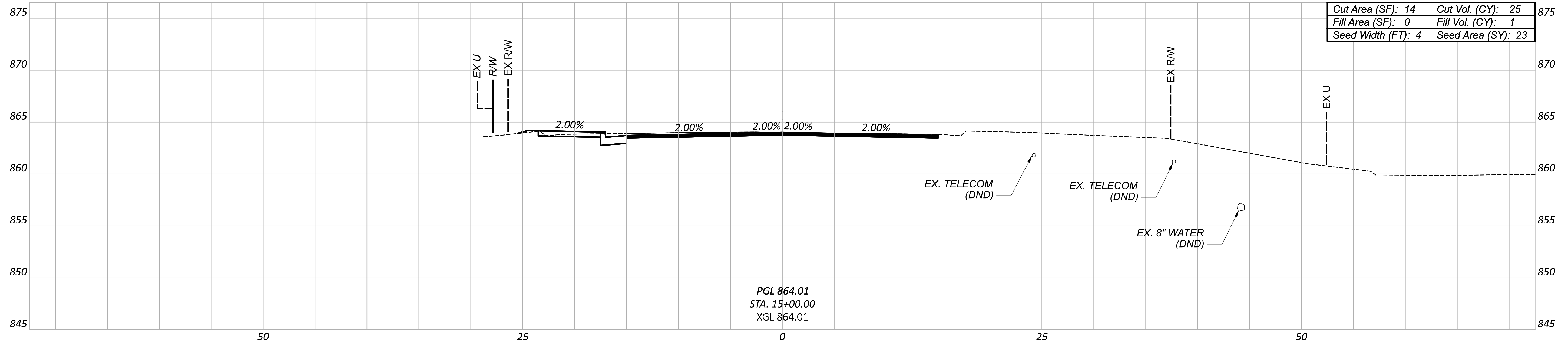
- LEGEND**
- FOC = FACE OF CURB
 - TBR = TO BE REMOVED
 - ATG = ADJUST TO GRADE
 - TBRL = TO BE RELOCATED
 - DND = DO NOT DISTURB
 - PA = PREVIOUSLY ABANDONED
 - TBA = TO BE ABANDONED
 - P = PROP. DUKE RELOCATION
 - ◁ = PROP. DUKE DEAD MAN
- CURV8**
- P.I. = Sta. 0+49.69
 $\Delta = 56^\circ 25' 49''$ LT
 $D_c = 114^\circ 35' 30''$
 $R = 50.00'$
 $T = 26.83'$
 $L = 49.24'$
 $E = 6.74'$

FOR CROSS SECTIONS, SEE SHEET 49
 FOR TRAFFIC CONTROL, SEE SHEET 70
 FOR LIGHTING PLAN, SEE SHEET 76
 FOR STORM PROFILE, SEE SHEET 57
 FOR DRIVE DETAIL, SEE SHEET 54
 FOR WATERLINE PLAN, SEE SHEET 62



PLAN AND PROFILE
 STA. 44+50 TO STA. 49+00 - BARDES RD.

DESIGN AGENCY	
WSP	
WSP USA, Inc. 312 Elm Street, Suite 2500 Cincinnati, OH 45202	
DESIGNER	
ATM	
REVIEWER	
ABS 01/30/24	
PROJECT ID	
29076	
SHEET	TOTAL
28	76



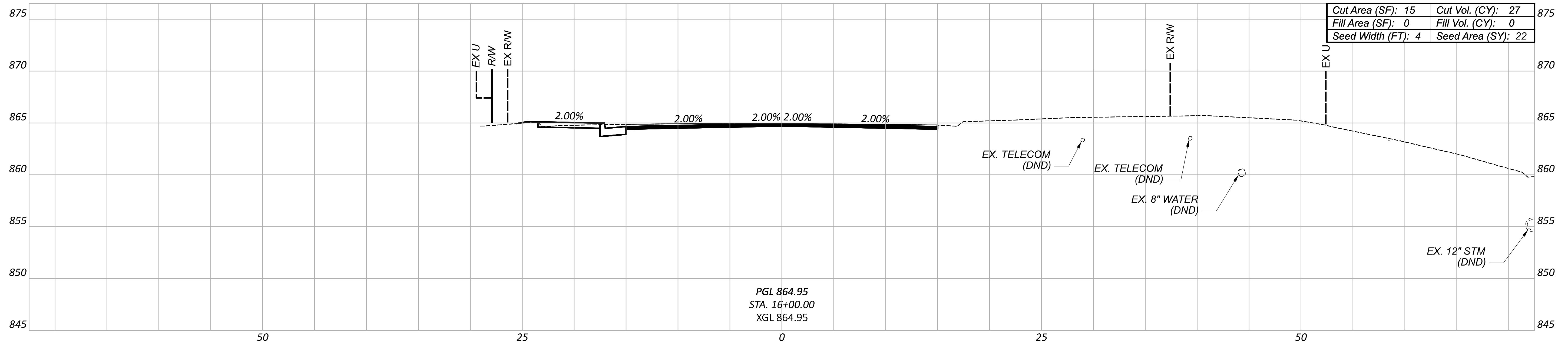
CROSS SECTIONS - WILKENS BLVD.
 STA. 14+00.00 TO STA. 15+00.00

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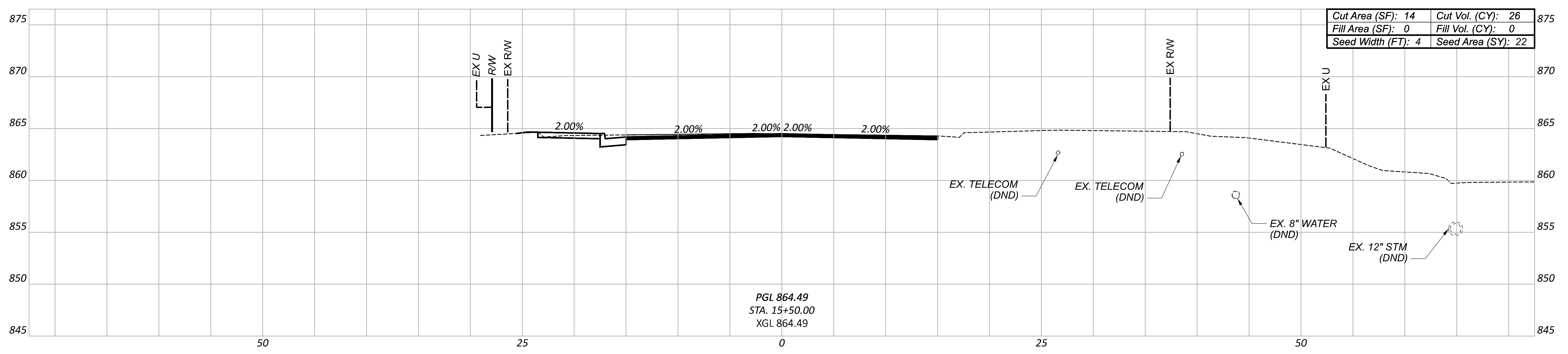
DESIGNER
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 ABS 01/30/24
 PROJECT ID
 29076

Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill	30	76
46	49	2		



Cut Area (SF): 15	Cut Vol. (CY): 27
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 4	Seed Area (SY): 22

PGL 864.95
 STA. 16+00.00
 XGL 864.95



Cut Area (SF): 14	Cut Vol. (CY): 26
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 4	Seed Area (SY): 22

PGL 864.49
 STA. 15+50.00
 XGL 864.49

Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	SHEET	TOTAL
44	53	0	31	76

CROSS SECTIONS - WILKENS BLVD.
 STA. 15+50.00 TO STA. 16+00.00

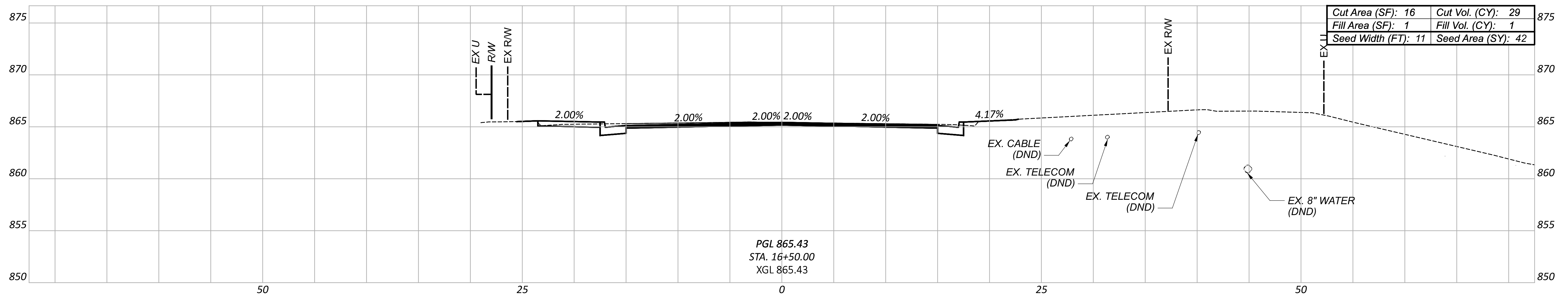
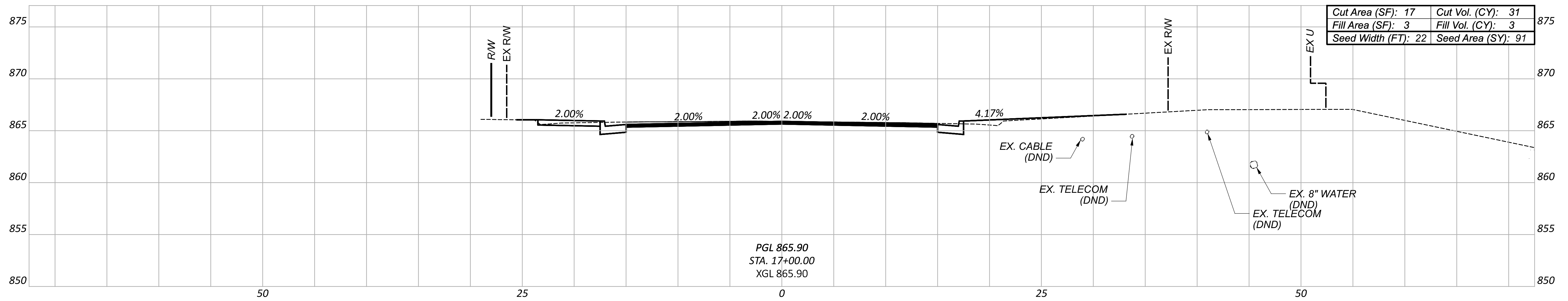
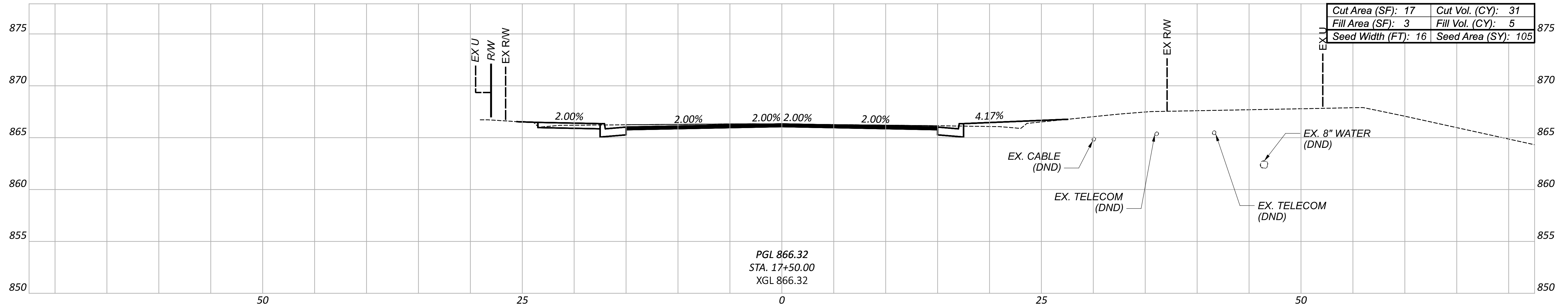
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CROSS SECTIONS - WILKENS BLVD.
STA. 16+50.00 TO STA. 17+50.00

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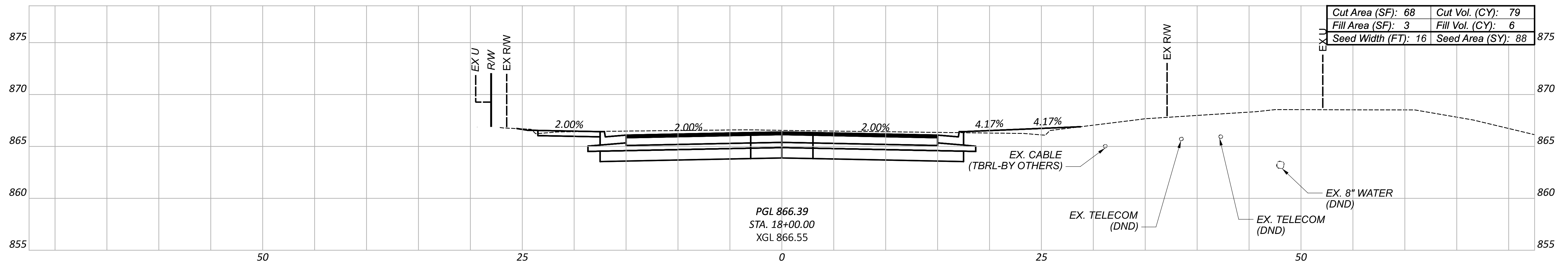
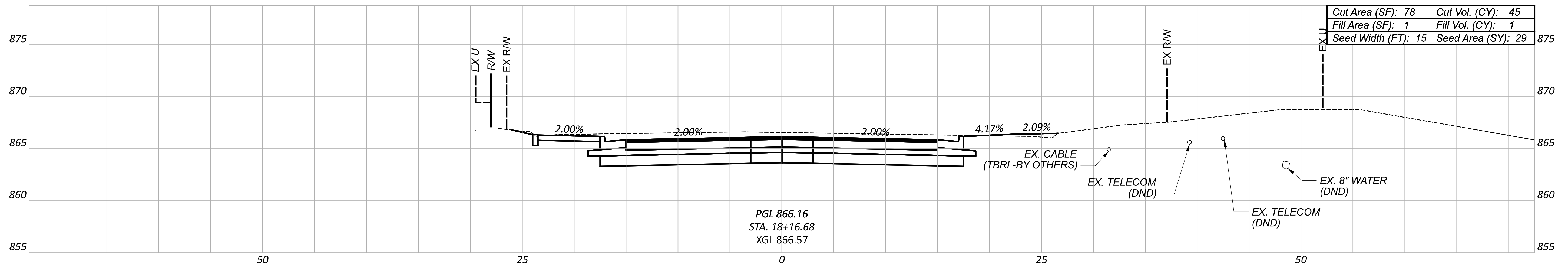
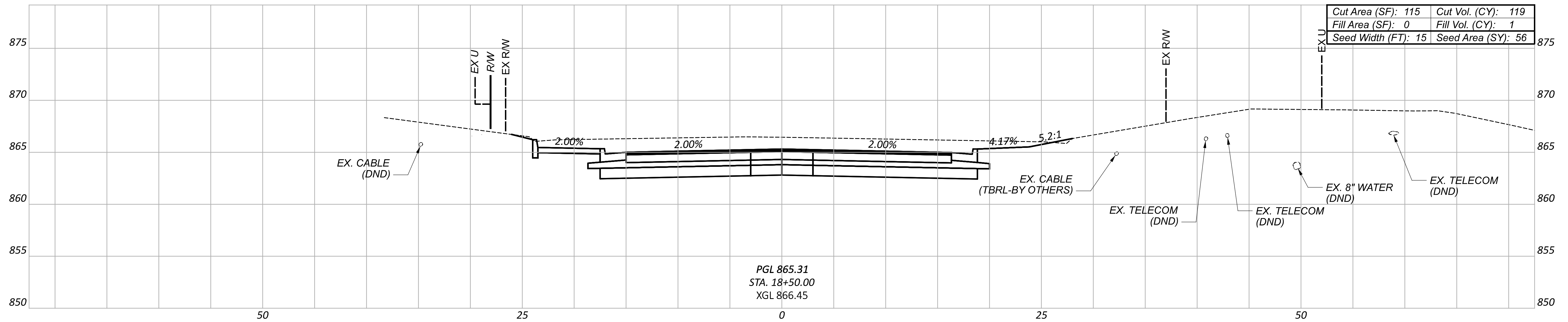
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PROJECT ID

29076

Sheet Totals		
Seeding	Cut	Fill
238	91	9

SHEET	TOTAL
32	76



BEGIN FULL DEPTH PAVEMENT
 STA. 17+75.00

CROSS SECTIONS - WILKENS BLVD.
 STA. 18+00.00 TO STA. 18+50.00

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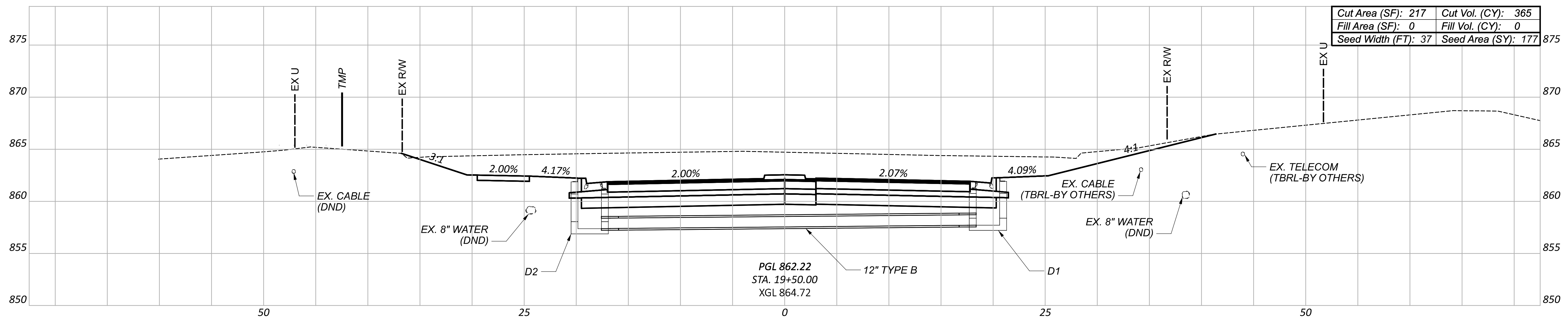
ABS 01/30/24

PROJECT ID

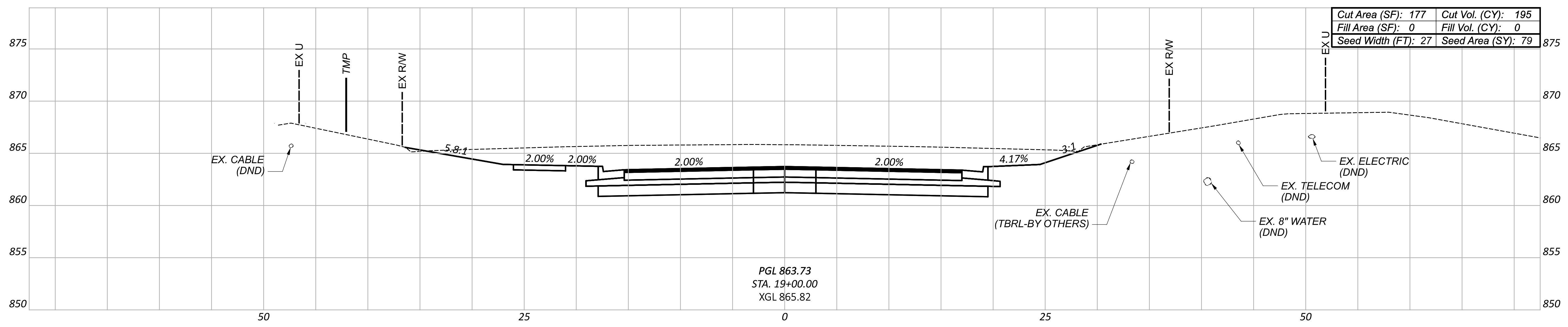
29076

Sheet Totals		
Seeding	Cut	Fill
173	243	8

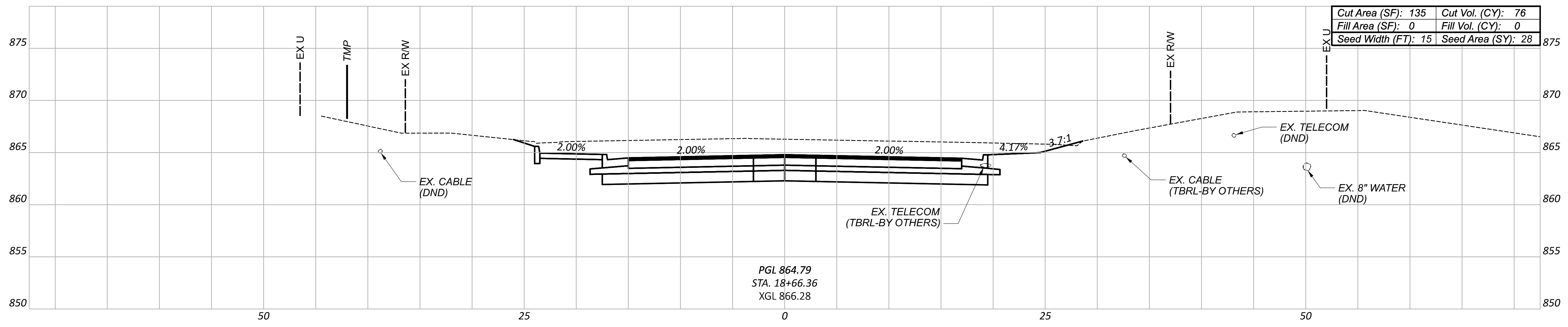
SHEET	TOTAL
33	76



Cut Area (SF): 217	Cut Vol. (CY): 365
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 37	Seed Area (SY): 177



Cut Area (SF): 177	Cut Vol. (CY): 195
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 27	Seed Area (SY): 79



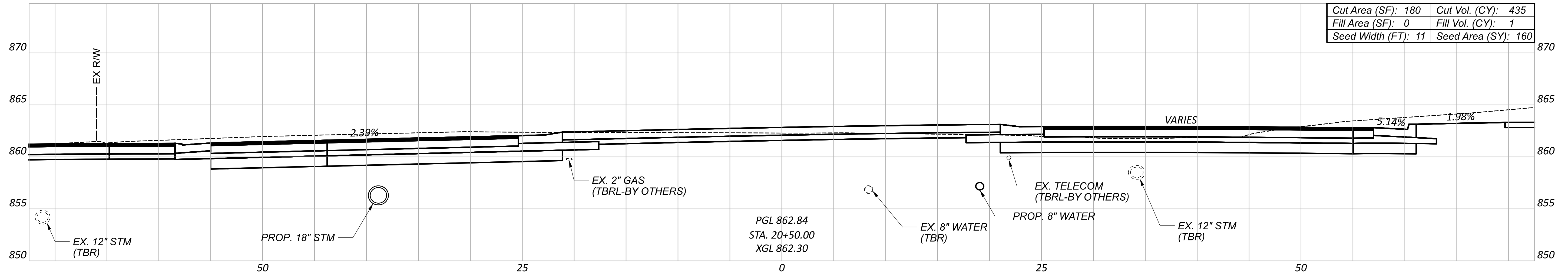
Cut Area (SF): 135	Cut Vol. (CY): 76
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 15	Seed Area (SY): 28

CROSS SECTIONS - WILKENS BLVD.
 STA. 18+66.36 TO STA. 19+50.00

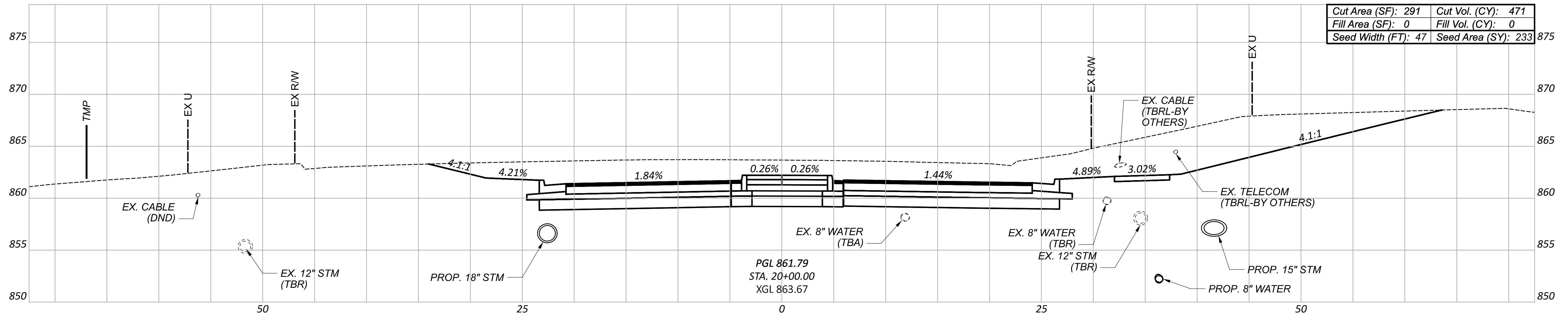
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Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
284	636	0	34	76



Cut Area (SF): 180	Cut Vol. (CY): 435
Fill Area (SF): 0	Fill Vol. (CY): 1
Seed Width (FT): 11	Seed Area (SY): 160



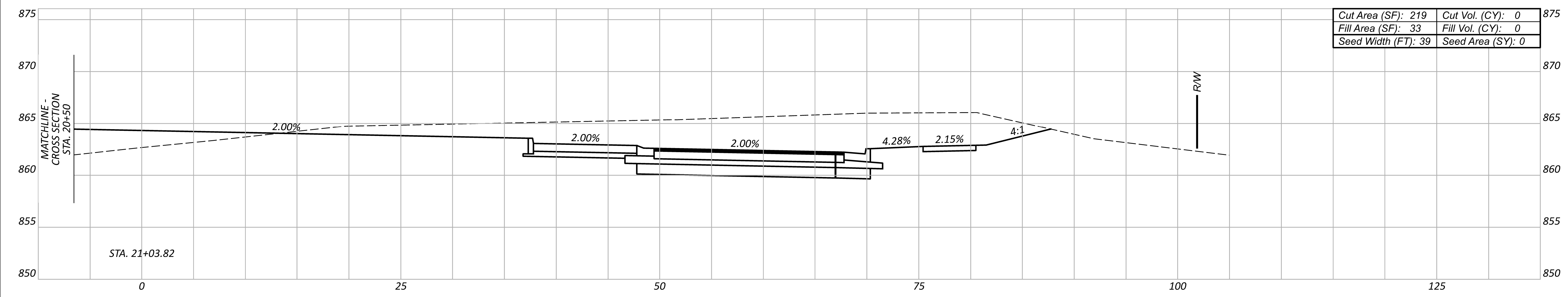
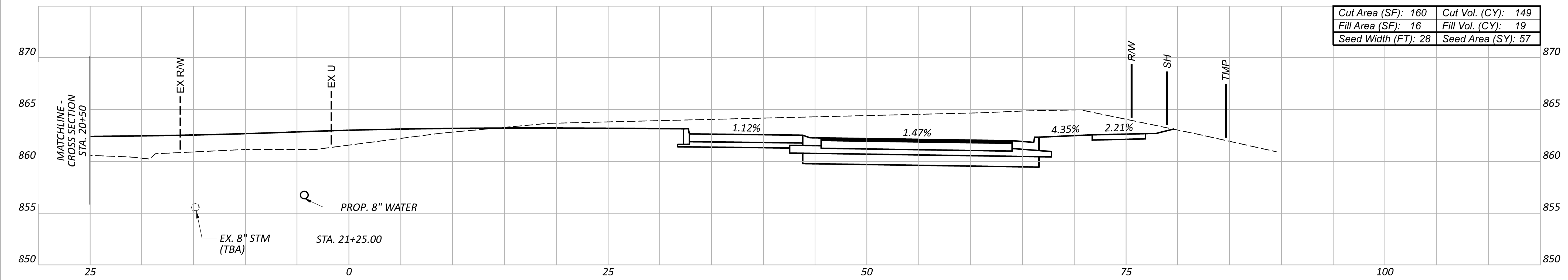
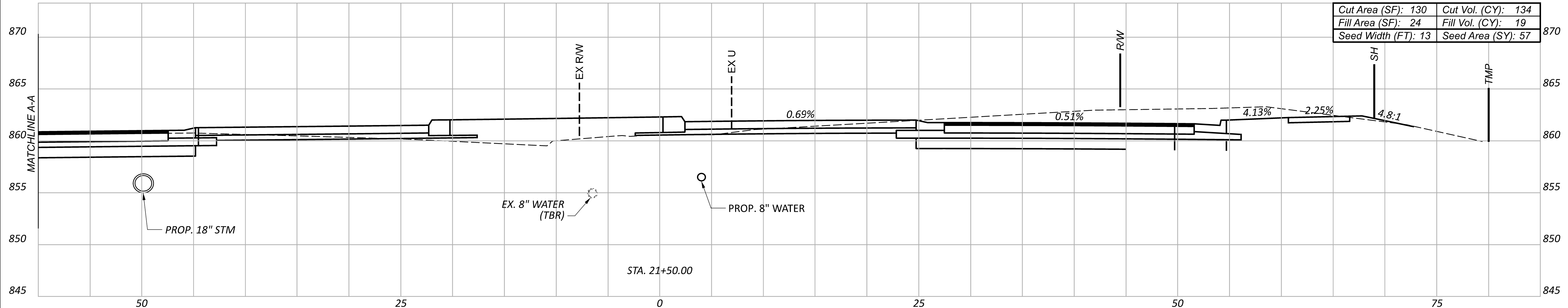
Cut Area (SF): 291	Cut Vol. (CY): 471
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 47	Seed Area (SY): 233

Sheet Totals			29076	
Seeding	Cut	Fill	SHEET	TOTAL
393	906	1	35	76

CROSS SECTIONS - WILKENS BLVD.
 STA. 20+00.00 TO STA. 20+50.00

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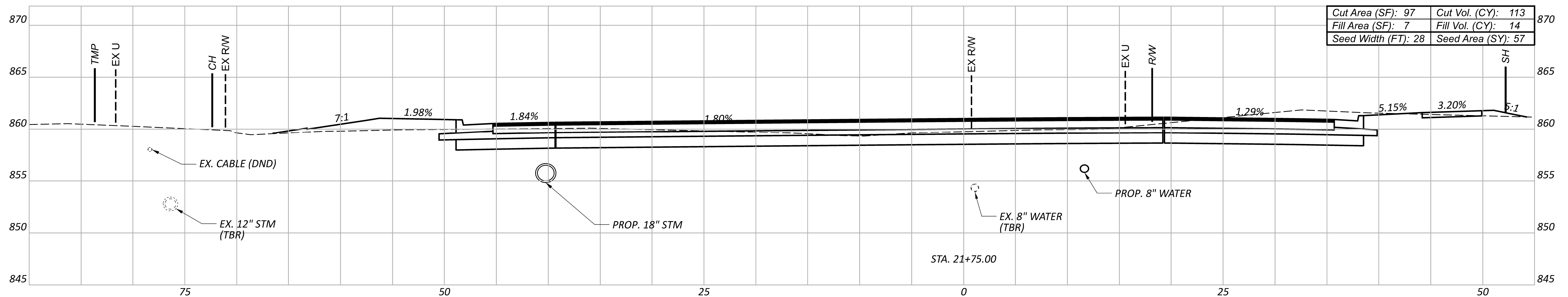
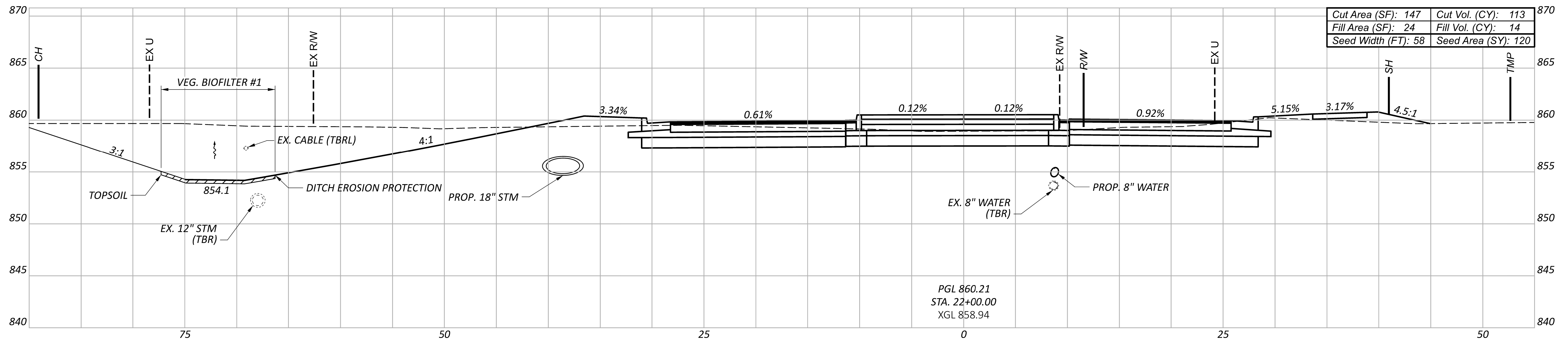
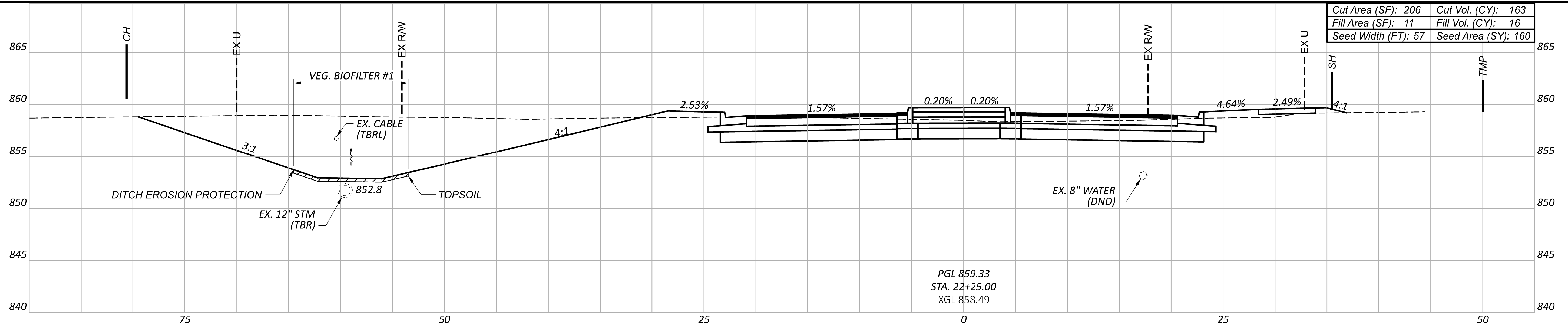


CROSS SECTIONS - WILKENS BLVD.
 STA. 21+03.82 TO STA. 21+50.00



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 REVIEWER: ABS 01/30/24
 PROJECT ID: 29076

Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	SHEET	TOTAL
114	283	38	36	76



CROSS SECTIONS - WILKENS BLVD.
 STA. 21+75.00 TO STA. 22+25.00

DESIGN AGENCY



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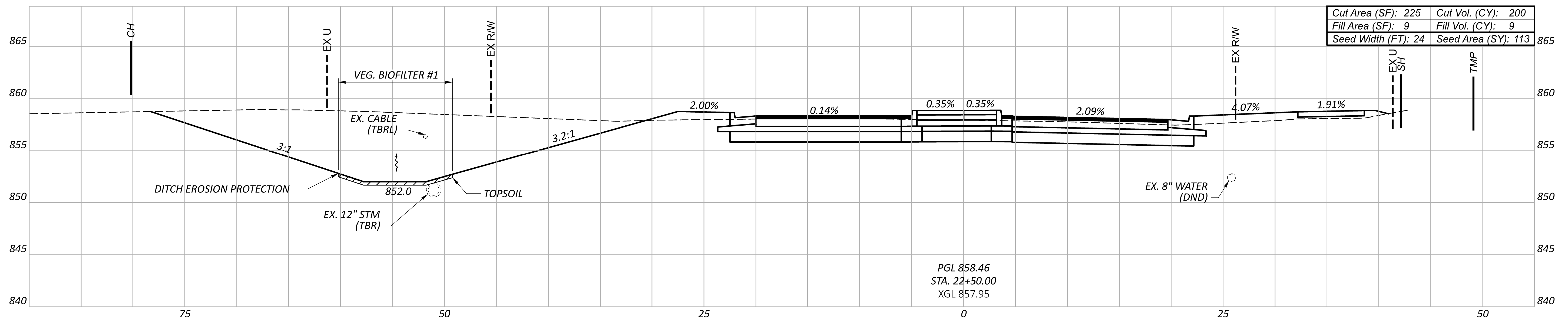
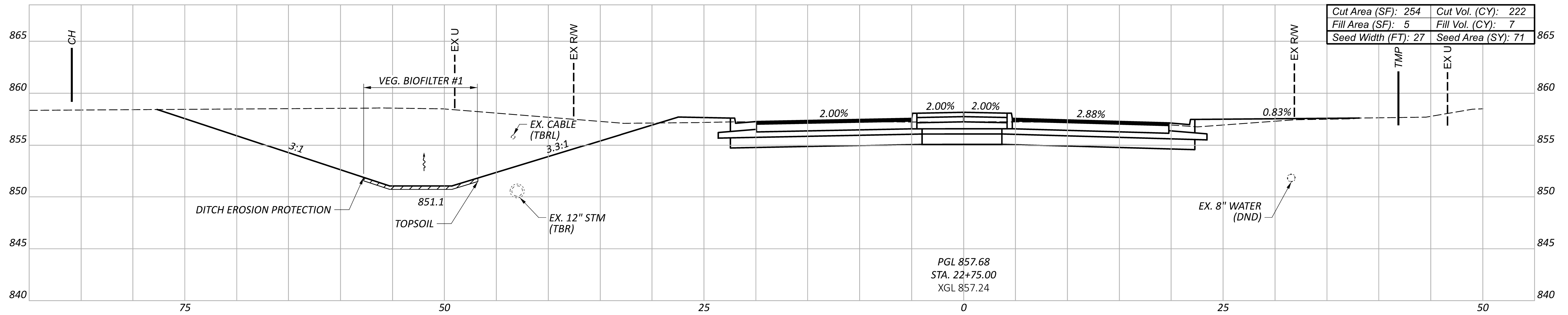
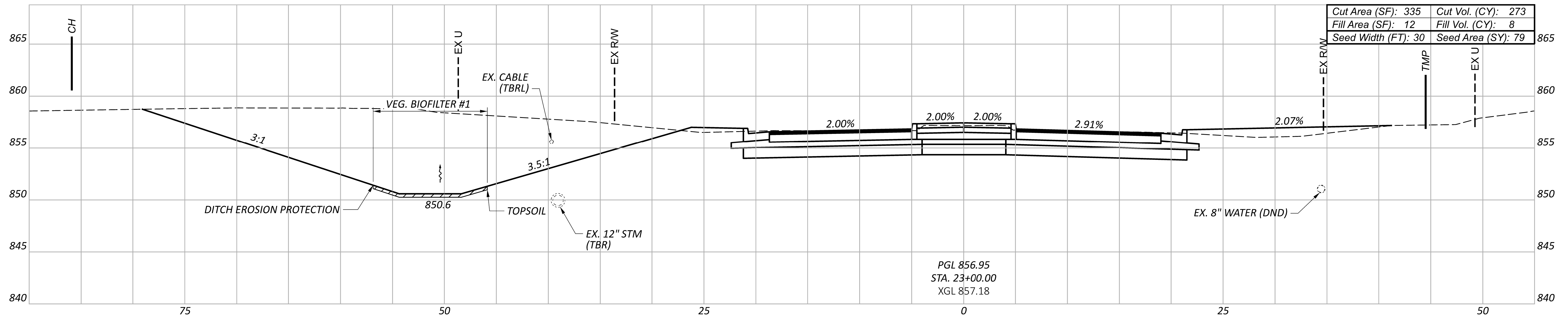
ABS 01/30/24

PROJECT ID

29076

Sheet Totals		
Seeding	Cut	Fill
337	389	44

SHEET	TOTAL
37	76



Sheet Totals			29076	
Seeding	Cut	Fill	SHEET	TOTAL
263	695	24	38	76

CROSS SECTIONS - WILKENS BLVD.
 STA. 22+50.00 TO STA. 23+00.00

DESIGN AGENCY



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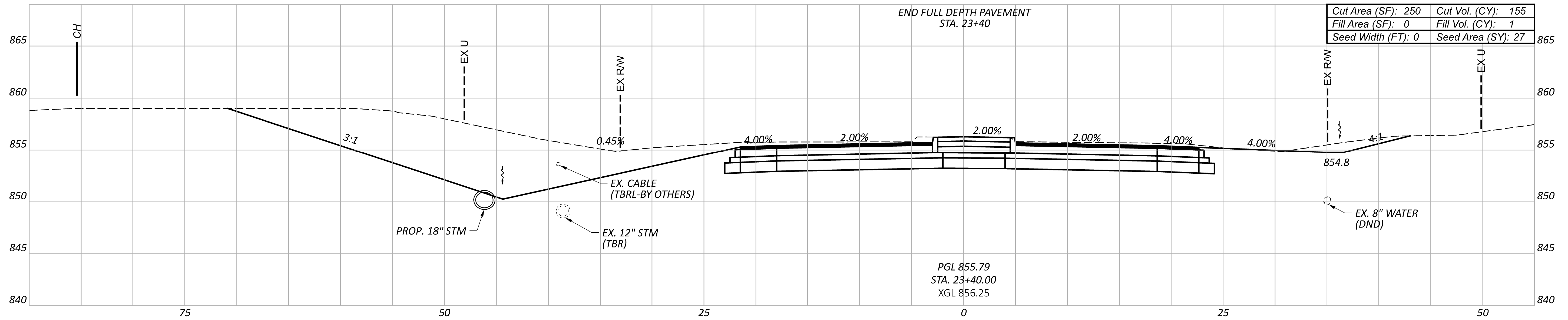
JHH

REVIEWER

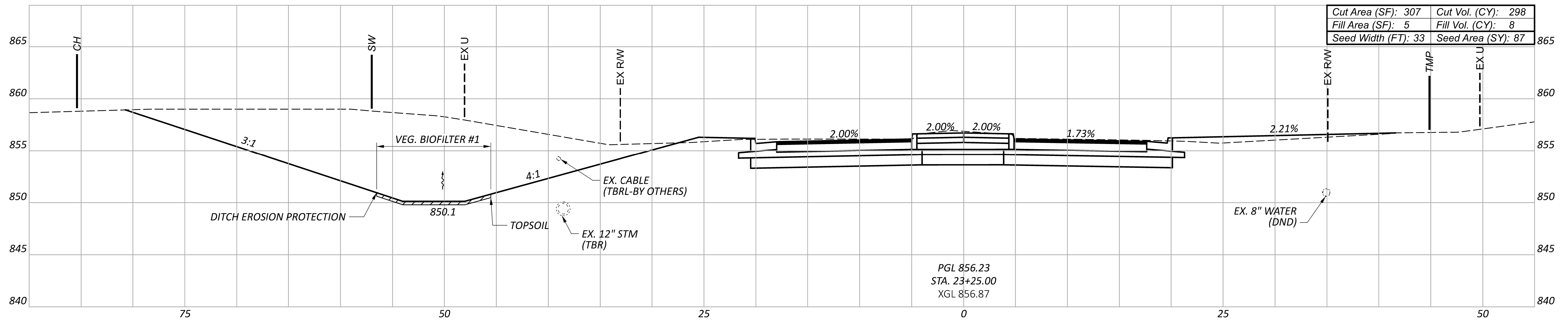
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29076



Cut Area (SF): 250	Cut Vol. (CY): 155
Fill Area (SF): 0	Fill Vol. (CY): 1
Seed Width (FT): 0	Seed Area (SY): 27



Cut Area (SF): 307	Cut Vol. (CY): 298
Fill Area (SF): 5	Fill Vol. (CY): 8
Seed Width (FT): 33	Seed Area (SY): 87

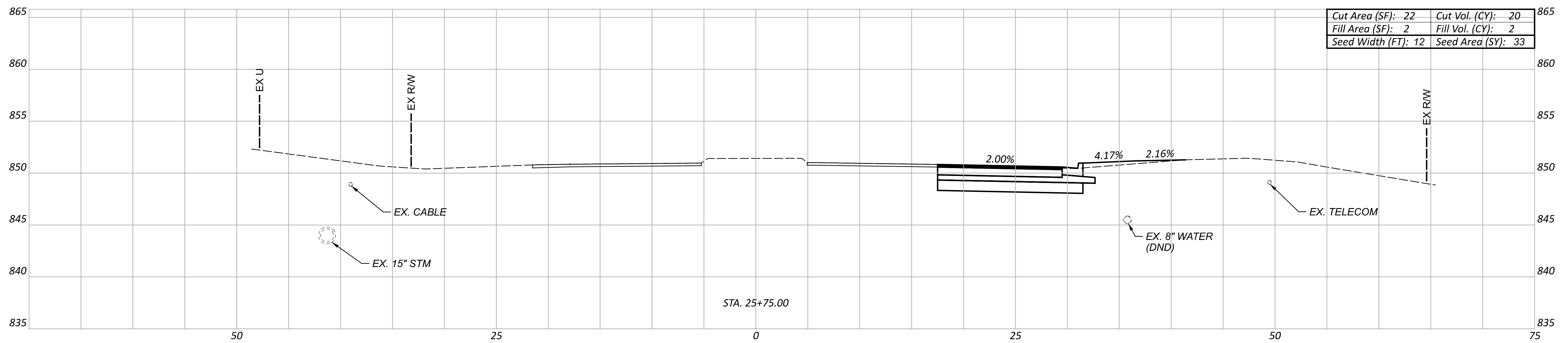
Sheet Totals			29076	
Seeding	Cut	Fill	SHEET	TOTAL
114	453	9	39	76

CROSS SECTIONS - WILKENS BLVD.
 STA. 23+25.00 TO STA. 23+40.00

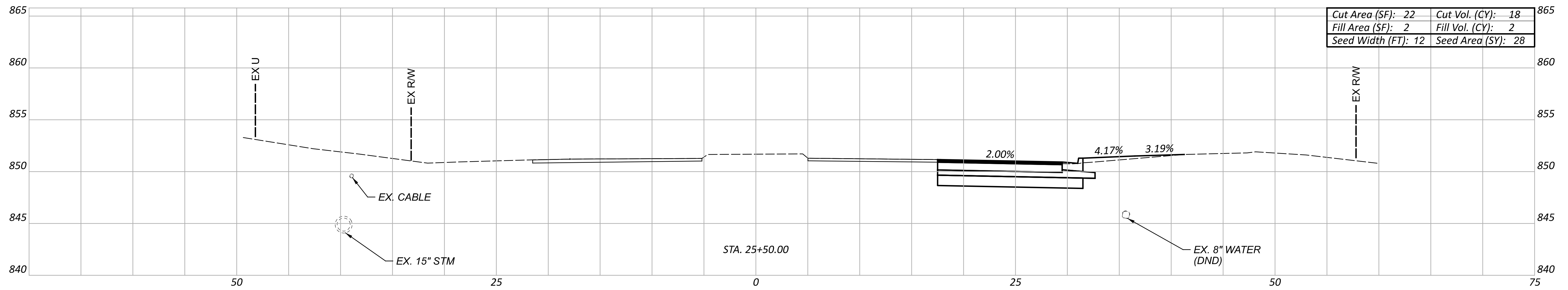
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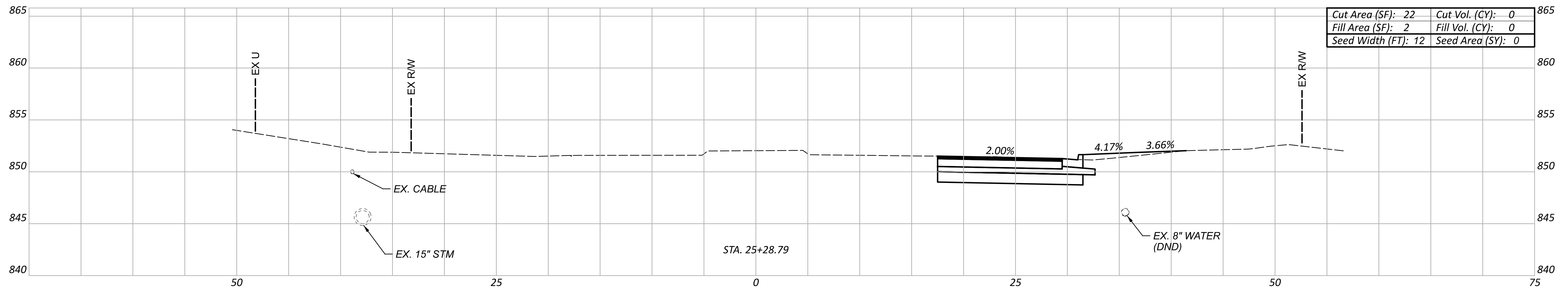
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Cut Area (SF): 22	Cut Vol. (CY): 20
Fill Area (SF): 2	Fill Vol. (CY): 2
Seed Width (FT): 12	Seed Area (SY): 33



Cut Area (SF): 22	Cut Vol. (CY): 18
Fill Area (SF): 2	Fill Vol. (CY): 2
Seed Width (FT): 12	Seed Area (SY): 28



Cut Area (SF): 22	Cut Vol. (CY): 0
Fill Area (SF): 2	Fill Vol. (CY): 0
Seed Width (FT): 12	Seed Area (SY): 0

CROSS SECTIONS - WILKENS BLVD.
 STA. 25+28.79 TO STA. 25+75.00

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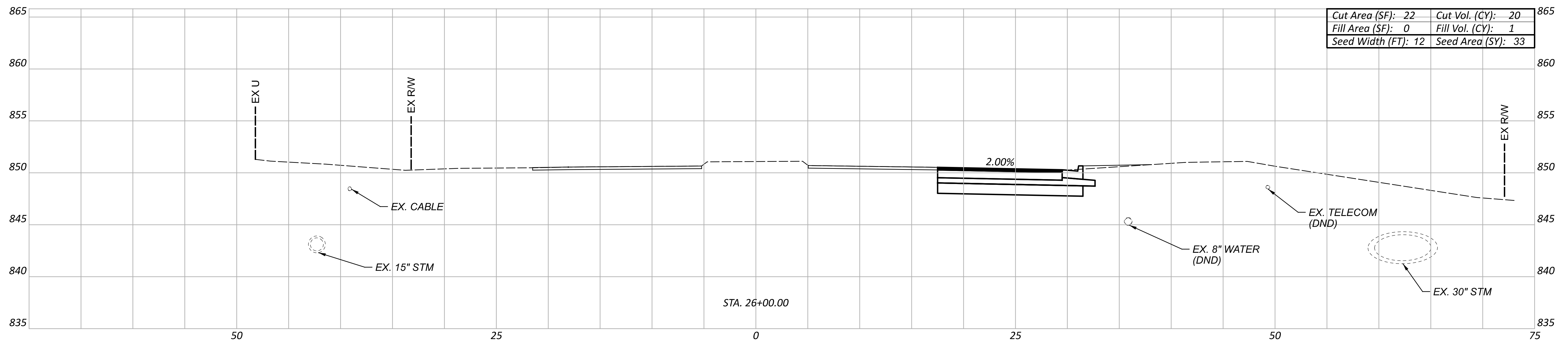
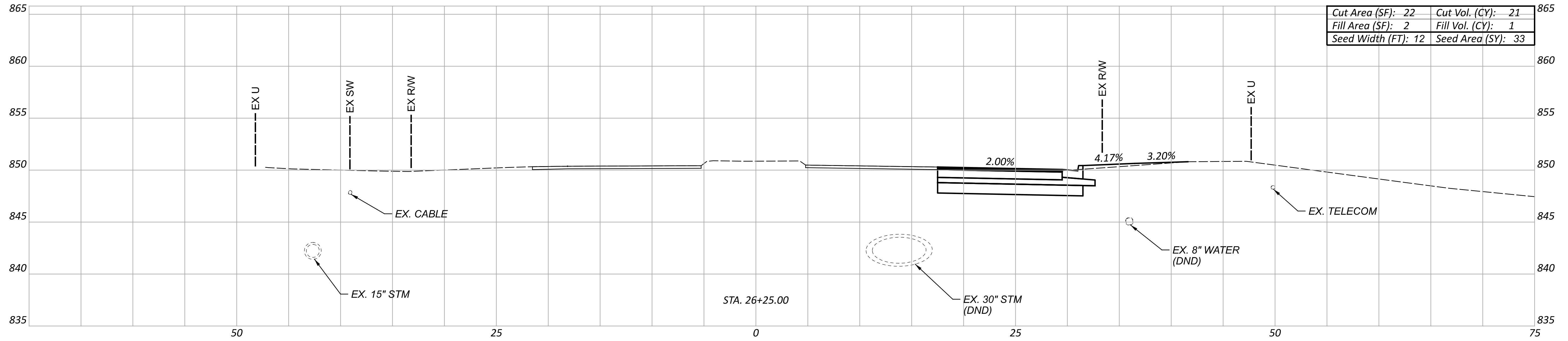
REVIEWER

ABS 01/30/24

PROJECT ID

29076

Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	SHEET	TOTAL
61	38	4	40	76



CROSS SECTIONS - WILKENS BLVD.
 STA. 26+00.00 TO STA. 26+25.00

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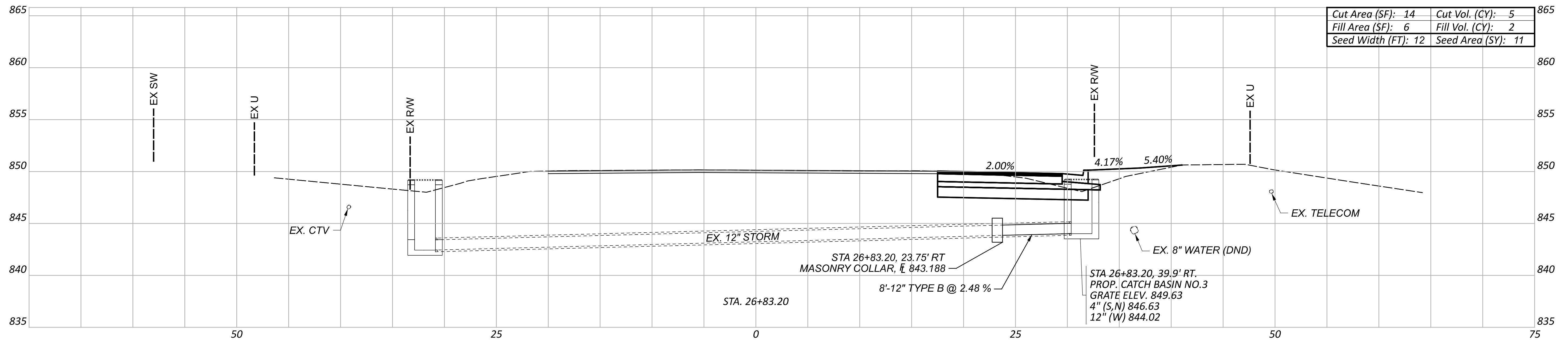
REVIEWER

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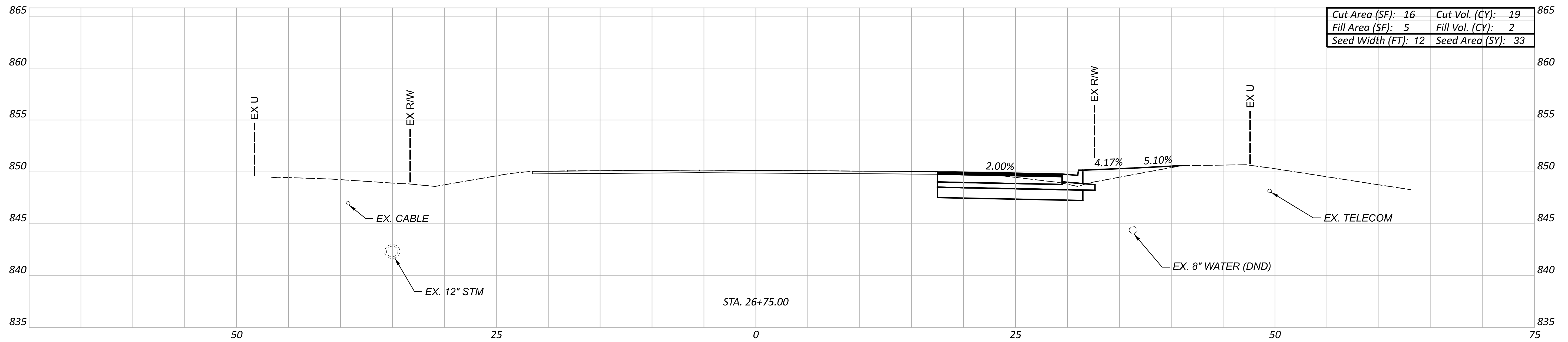
PROJECT ID

29076

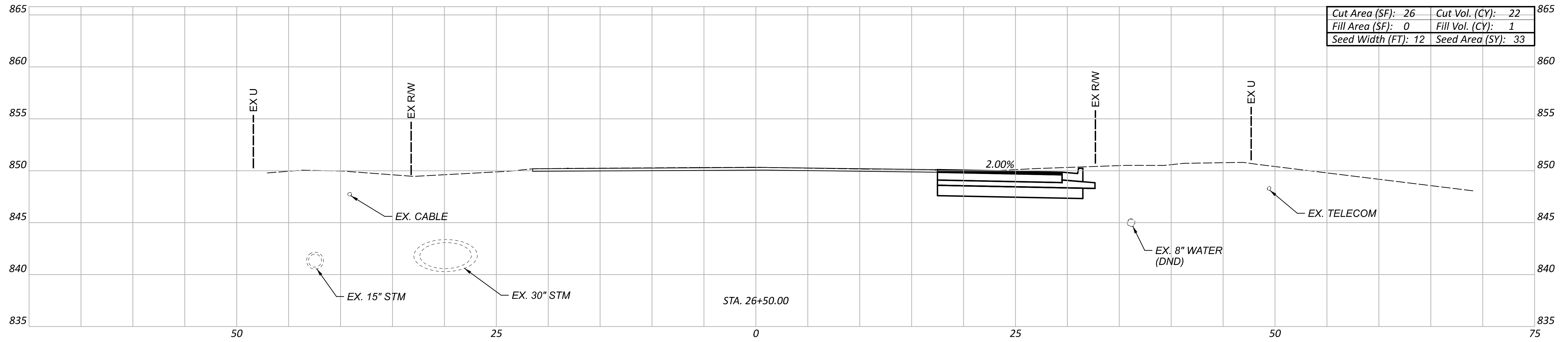
Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
66	41	2	41	76



Cut Area (SF): 14	Cut Vol. (CY): 5
Fill Area (SF): 6	Fill Vol. (CY): 2
Seed Width (FT): 12	Seed Area (SY): 11



Cut Area (SF): 16	Cut Vol. (CY): 19
Fill Area (SF): 5	Fill Vol. (CY): 2
Seed Width (FT): 12	Seed Area (SY): 33



Cut Area (SF): 26	Cut Vol. (CY): 22
Fill Area (SF): 0	Fill Vol. (CY): 1
Seed Width (FT): 12	Seed Area (SY): 33

Sheet Totals			29076	
Seeding	Cut	Fill	SHEET	TOTAL
77	46	5	42	76

CROSS SECTIONS - WILKENS BLVD.
 STA. 26+50.00 TO STA. 26+83.20

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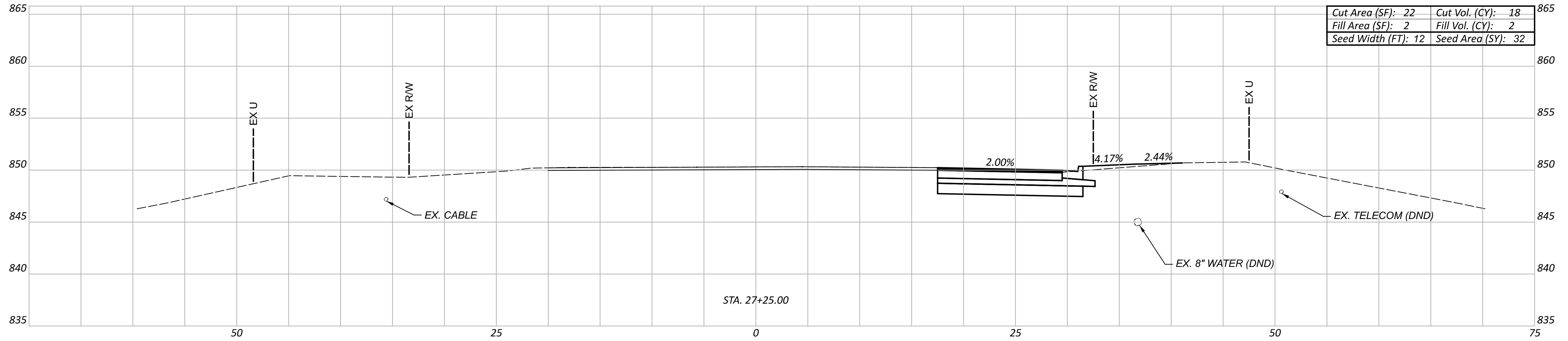
JHH

REVIEWER

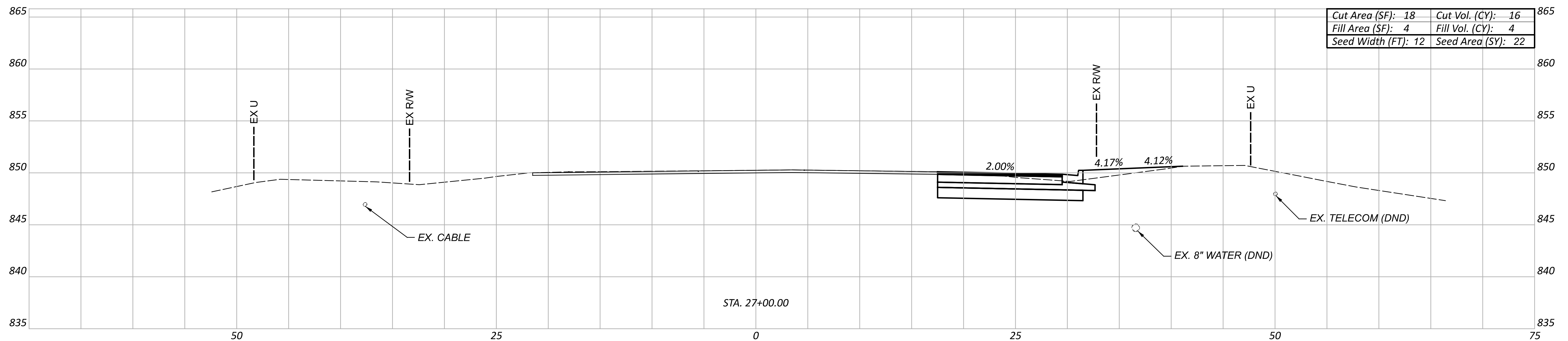
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PROJECT ID

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Cut Area (SF): 22	Cut Vol. (CY): 18
Fill Area (SF): 2	Fill Vol. (CY): 2
Seed Width (FT): 12	Seed Area (SY): 32



Cut Area (SF): 18	Cut Vol. (CY): 16
Fill Area (SF): 4	Fill Vol. (CY): 4
Seed Width (FT): 12	Seed Area (SY): 22

CROSS SECTIONS - WILKENS BLVD.
 STA. 27+00.00 TO STA. 27+75.00

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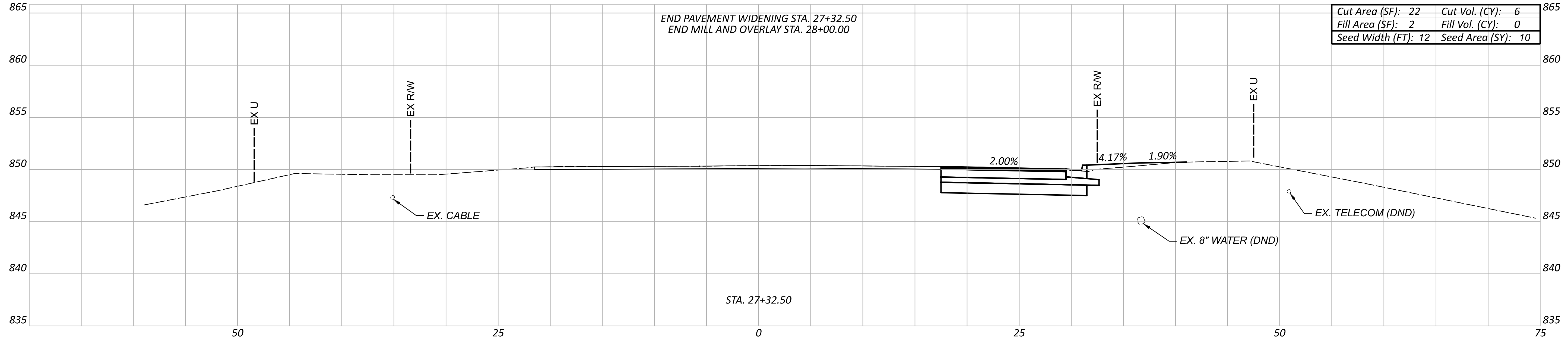
ABS 01/30/24

PROJECT ID

29076

Sheet Totals		
Seeding	Cut	Fill
54	34	6

SHEET	TOTAL
43	76



GRAND TOTAL:
 SEEDING & MULCHING: 2274 SY
 CUT VOLUME: 3963 CY
 FILL VOLUME: 152 CY
 (DEDUCT 1321 CY FROM CUT QUANTITY FOR PAVEMENT PLANING AND REMOVAL)

Cut Area (SF): 22	Cut Vol. (CY): 6
Fill Area (SF): 2	Fill Vol. (CY): 0
Seed Width (FT): 12	Seed Area (SY): 10

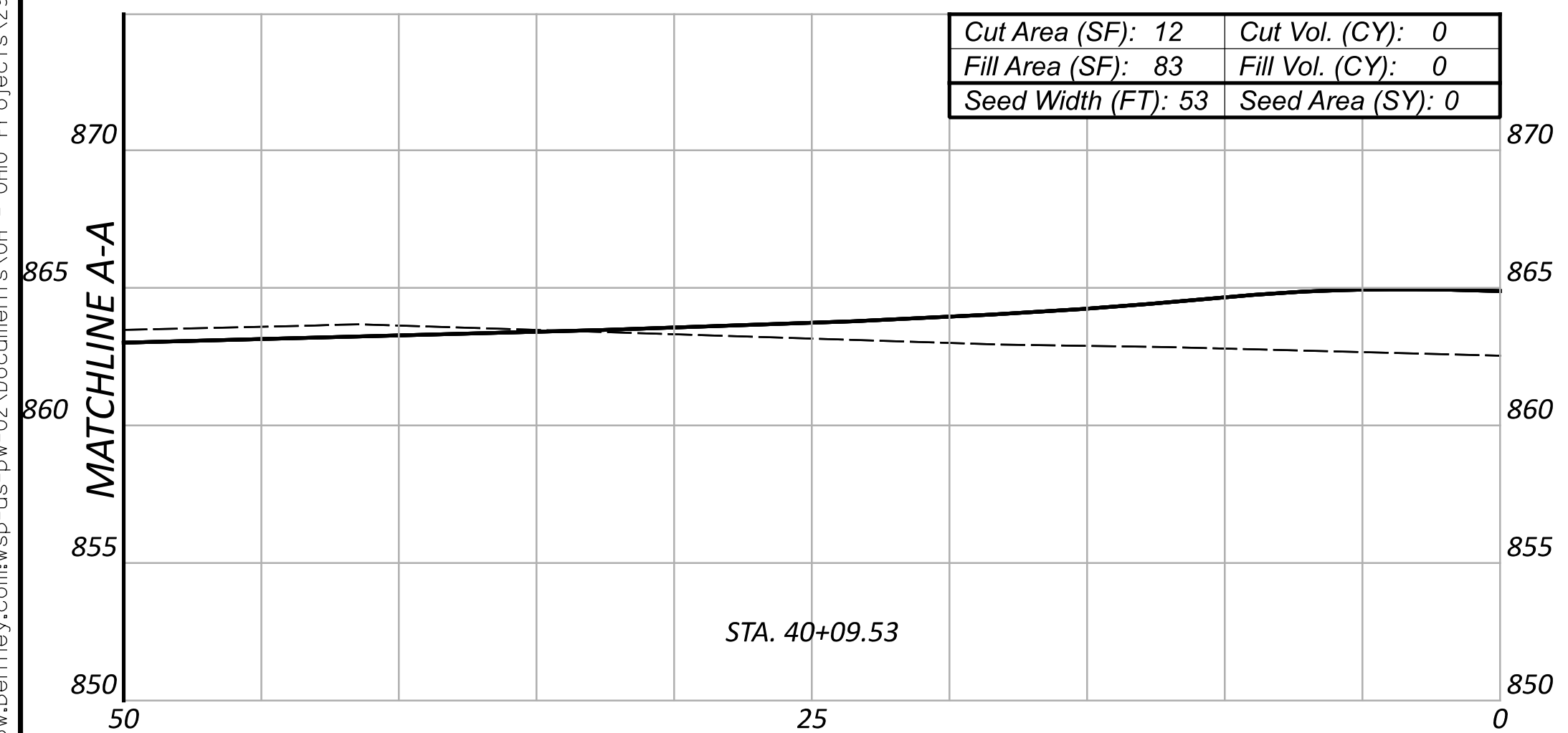
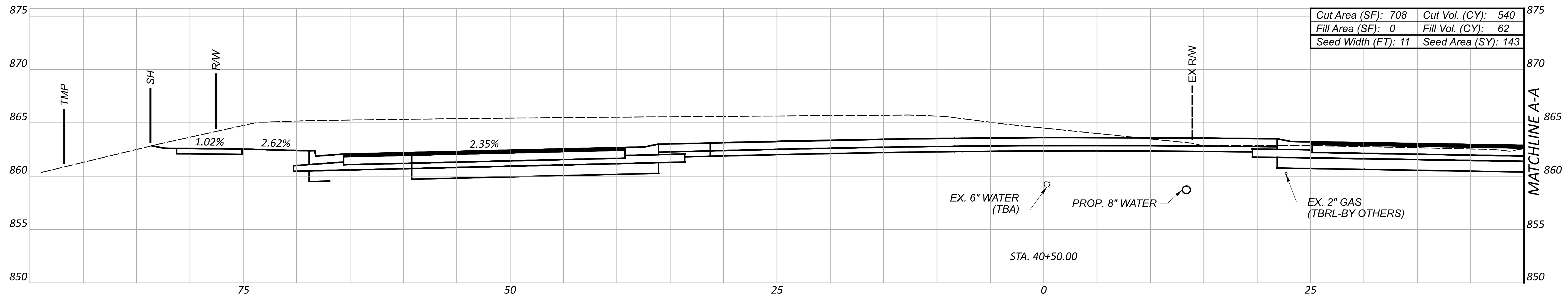
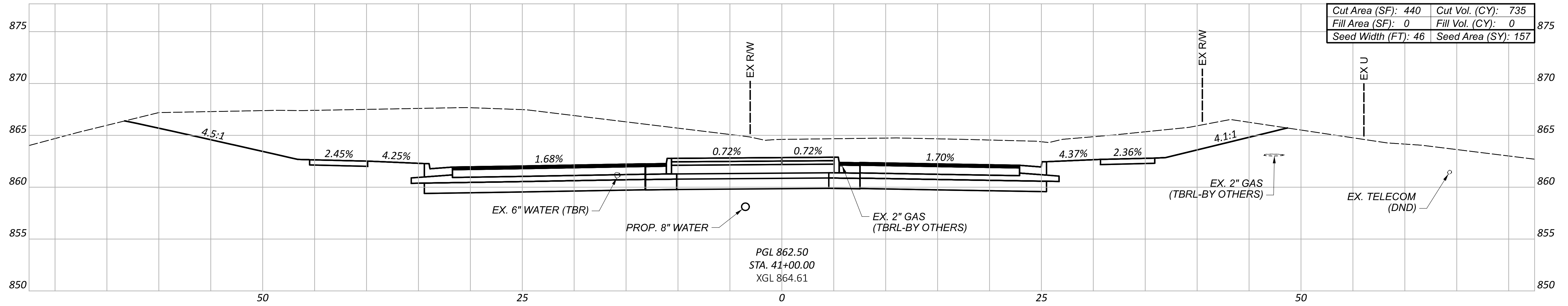
Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
10	6	0	44	76

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CROSS SECTIONS - BARDES RD.
 STA. 40+09.53 TO STA. 41+00.00

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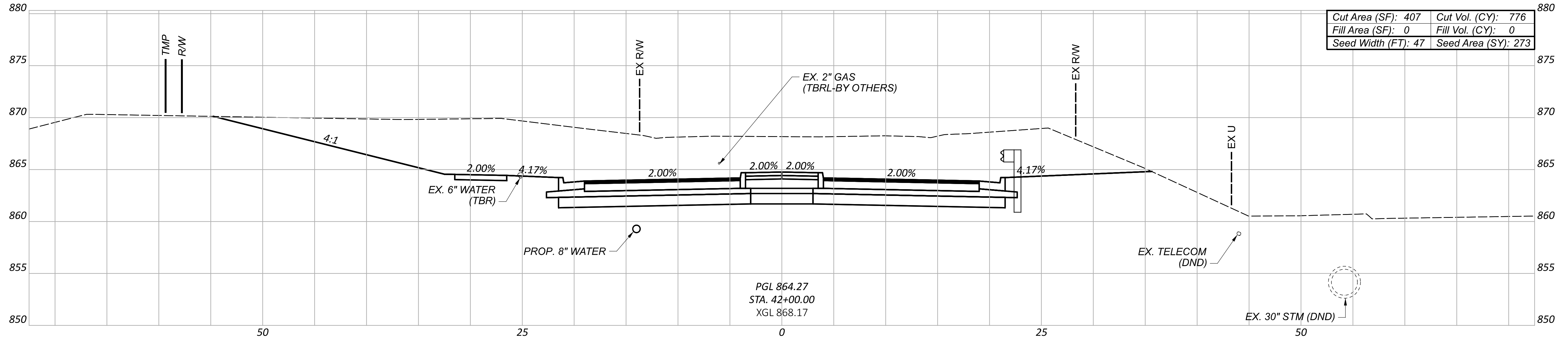
REVIEWER

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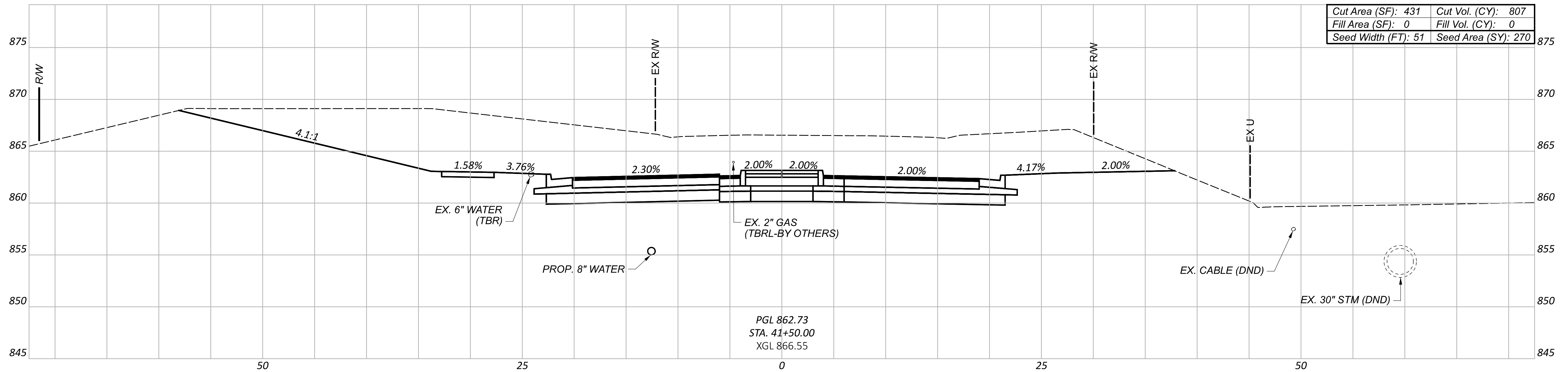
PROJECT ID

29076

Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
300	1275	62	45	76



Cut Area (SF): 407	Cut Vol. (CY): 776
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 47	Seed Area (SY): 273



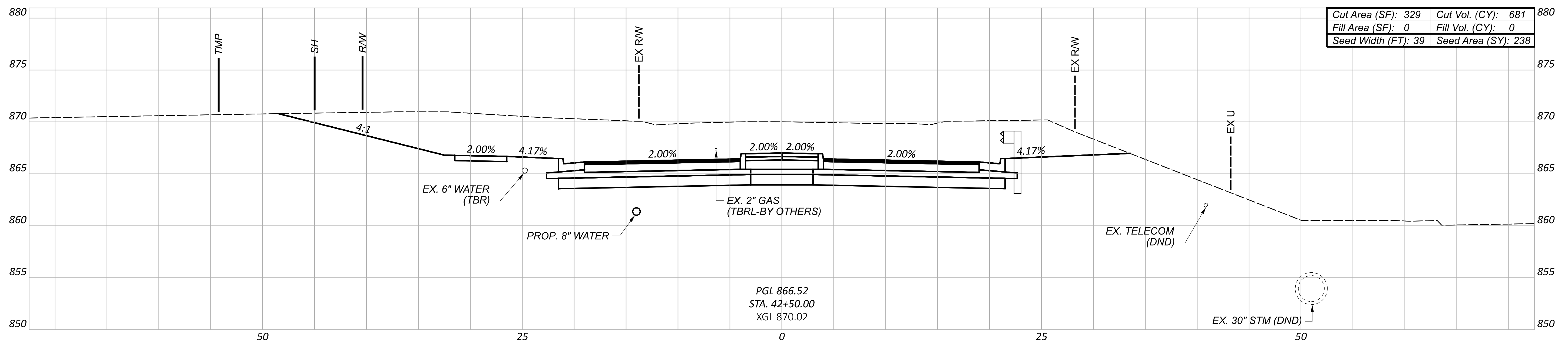
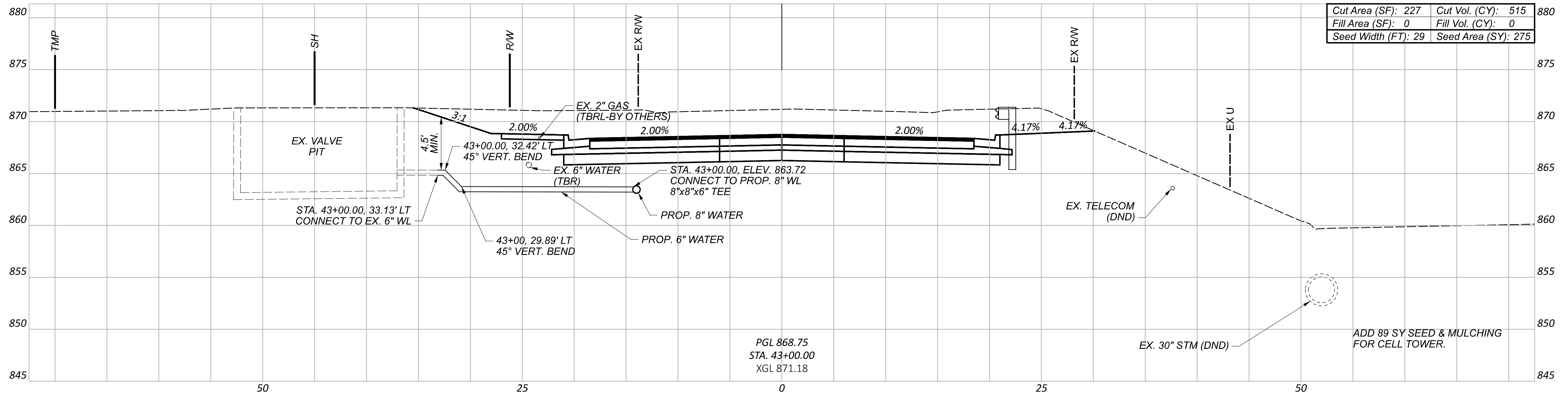
Cut Area (SF): 431	Cut Vol. (CY): 807
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 51	Seed Area (SY): 270

Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill	46	76
543	1583	0		

CROSS SECTIONS - BARDES RD.
 STA. 41+50.00 TO STA. 42+00.00

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CROSS SECTIONS - BARDES RD.
STA. 42+50.00 TO STA. 43+00.00

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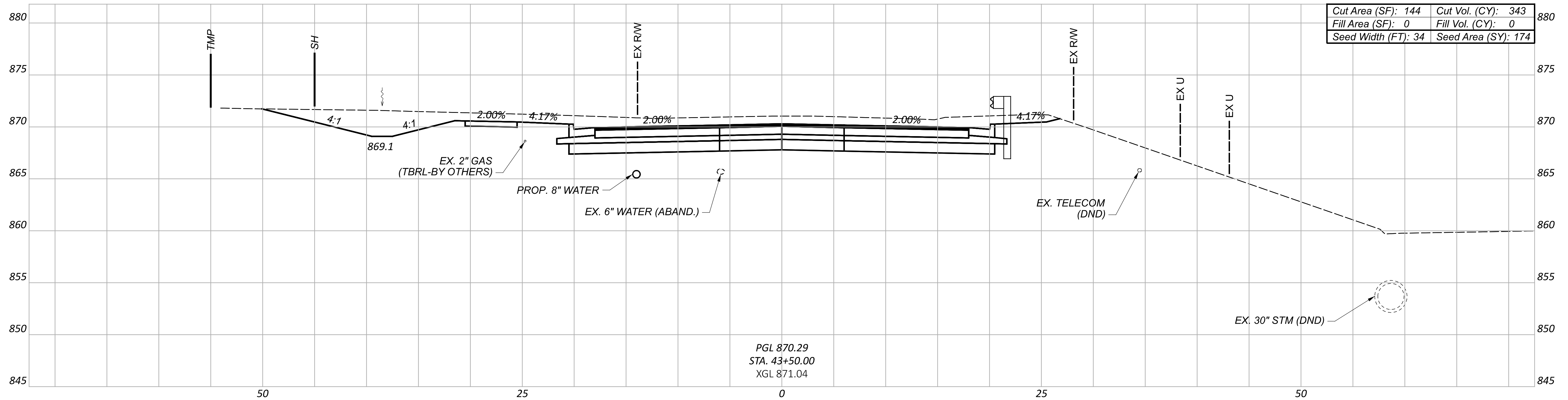
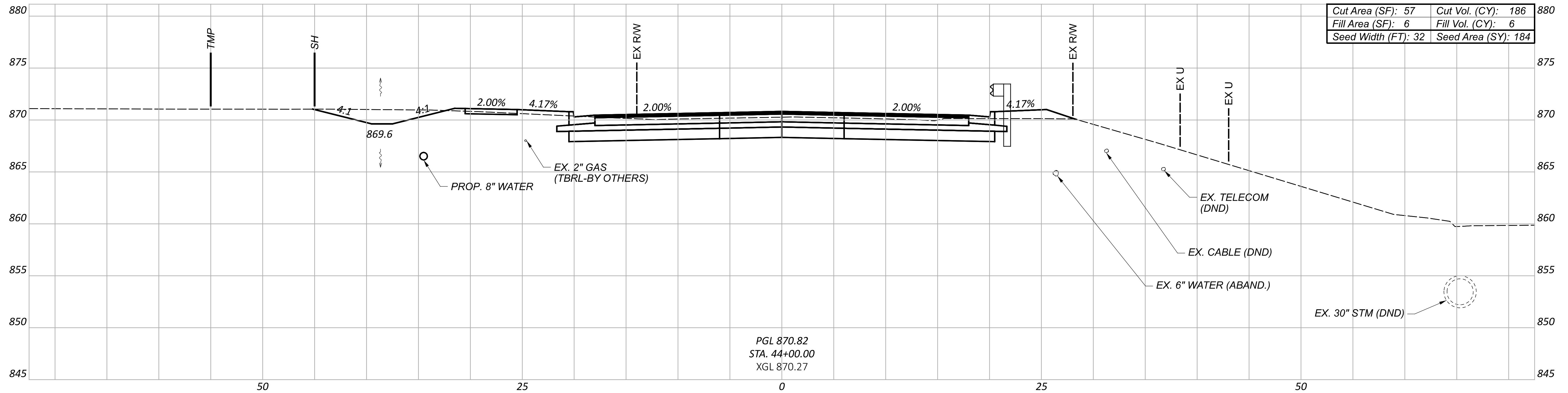
PROJECT ID

29076

Sheet Totals

Seeding	Cut	Fill
513	1196	0

SHEET	TOTAL
47	76



CROSS SECTIONS - BARDES RD.
 STA. 43+50.00 TO STA. 44+00.00

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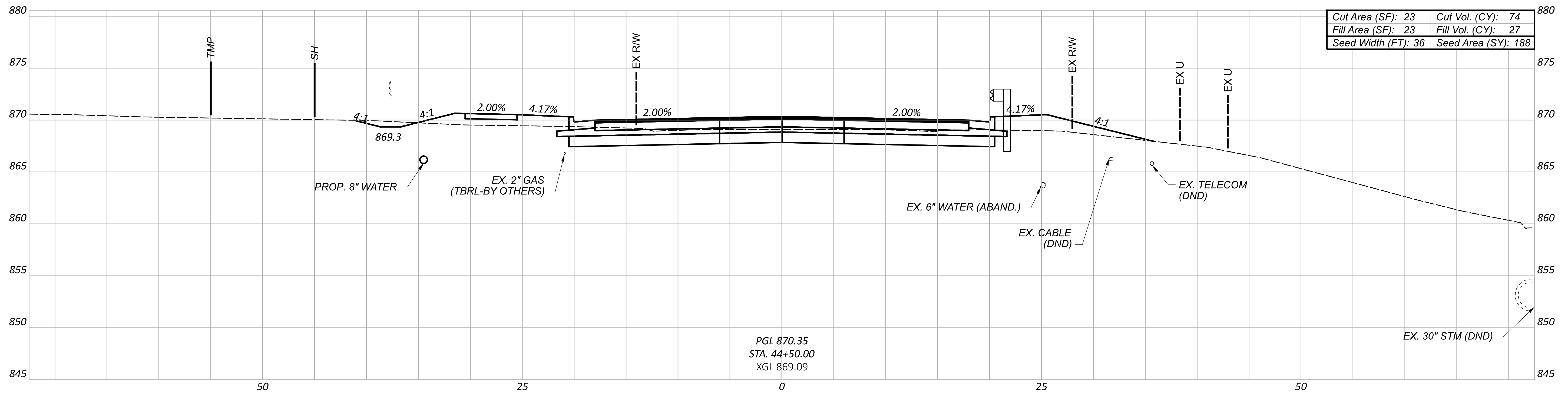
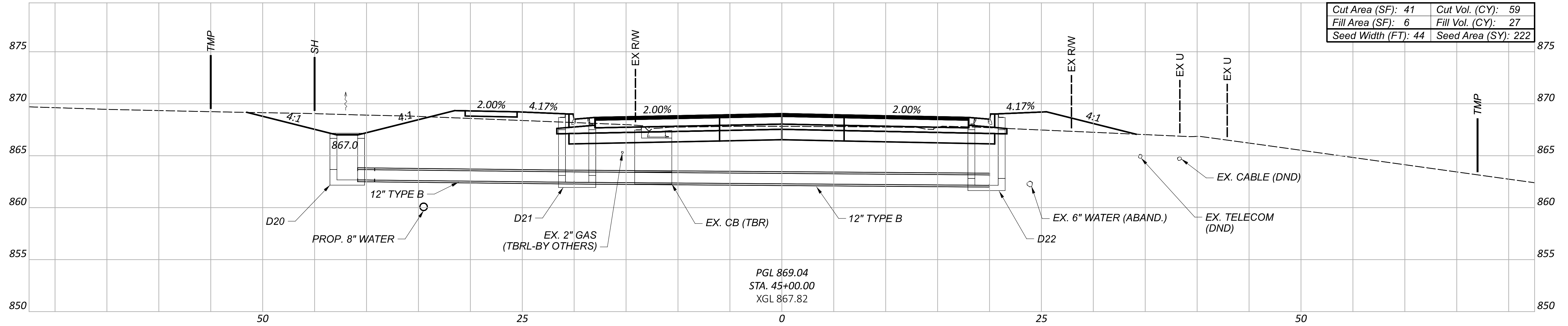
PROJECT ID

29076

Sheet Totals

Seeding	Cut	Fill
358	529	6

SHEET	TOTAL
48	76



CROSS SECTIONS - BARDES RD.
 STA. 44+50.00 TO STA. 45+00.00

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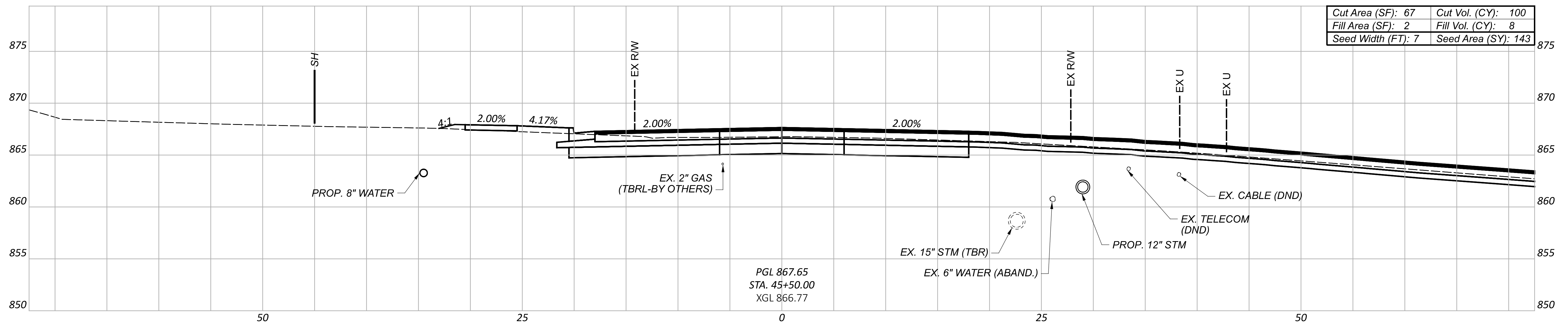
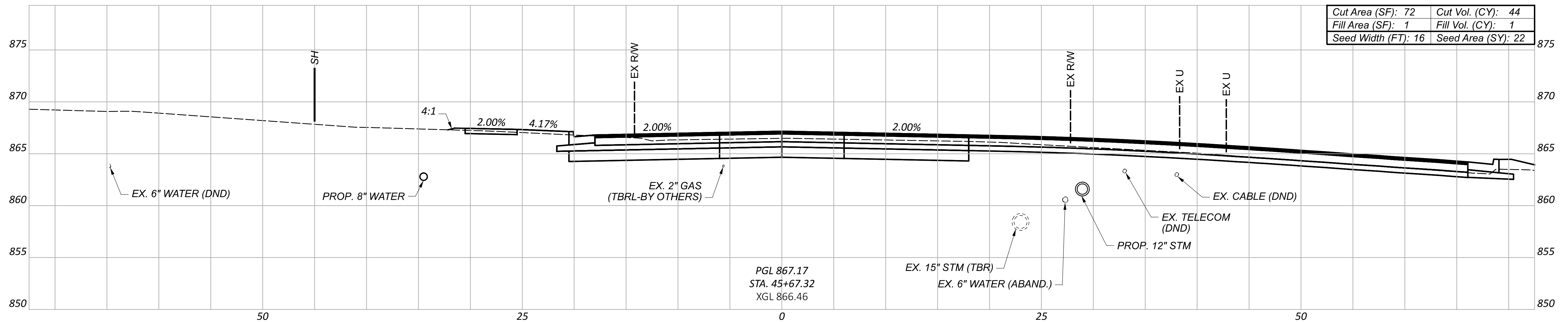
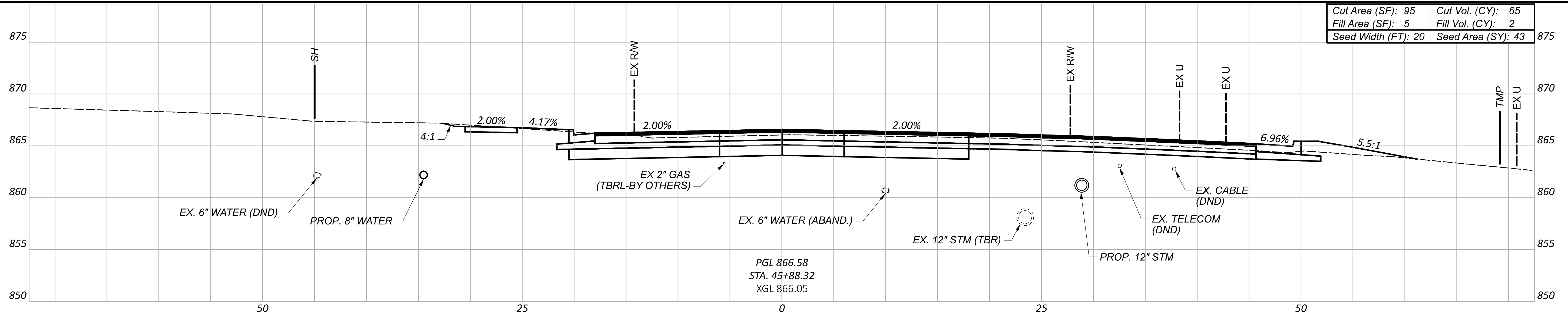
REVIEWER

ABS 01/30/24

PROJECT ID

29076

Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
410	133	54	49	76



CROSS SECTIONS - BARDES RD.
 STA. 45+50.00 TO STA. 45+88.32

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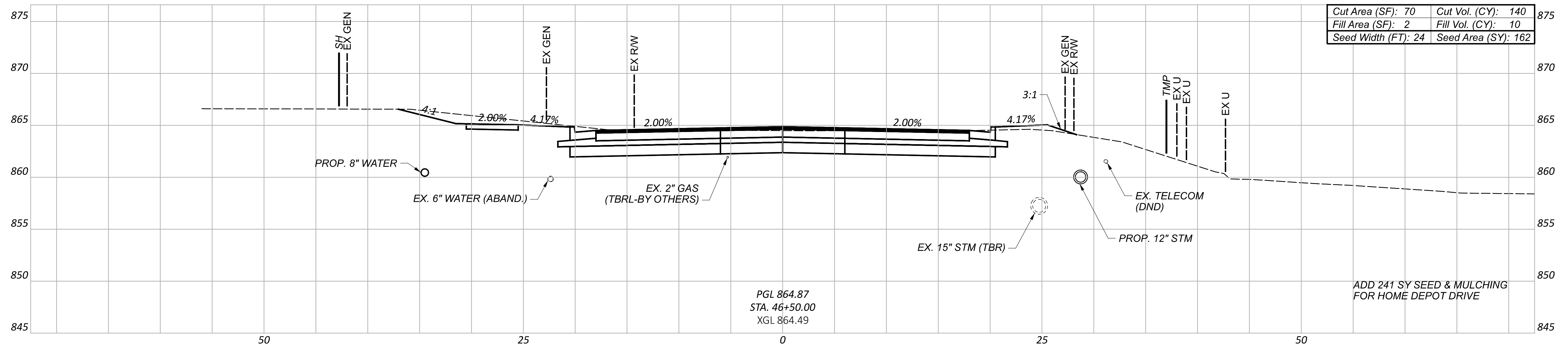
ABS 01/30/24

PROJECT ID

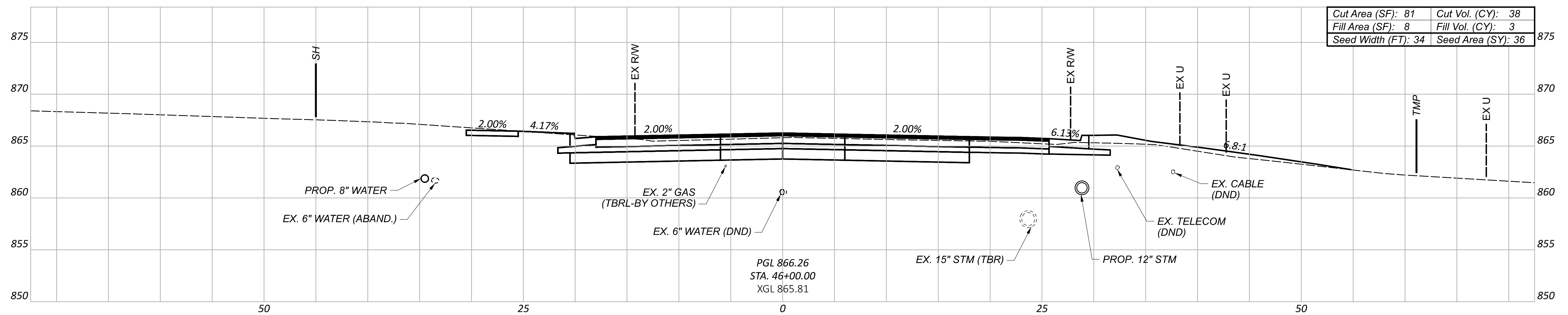
29076

Sheet Totals		
Seeding	Cut	Fill
208	209	11

SHEET	TOTAL
50	76



Cut Area (SF): 70	Cut Vol. (CY): 140
Fill Area (SF): 2	Fill Vol. (CY): 10
Seed Width (FT): 24	Seed Area (SY): 162



Cut Area (SF): 81	Cut Vol. (CY): 38
Fill Area (SF): 8	Fill Vol. (CY): 3
Seed Width (FT): 34	Seed Area (SY): 36

Sheet Totals			29076	
Seeding	Cut	Fill	SHEET	TOTAL
198	178	13	51	76

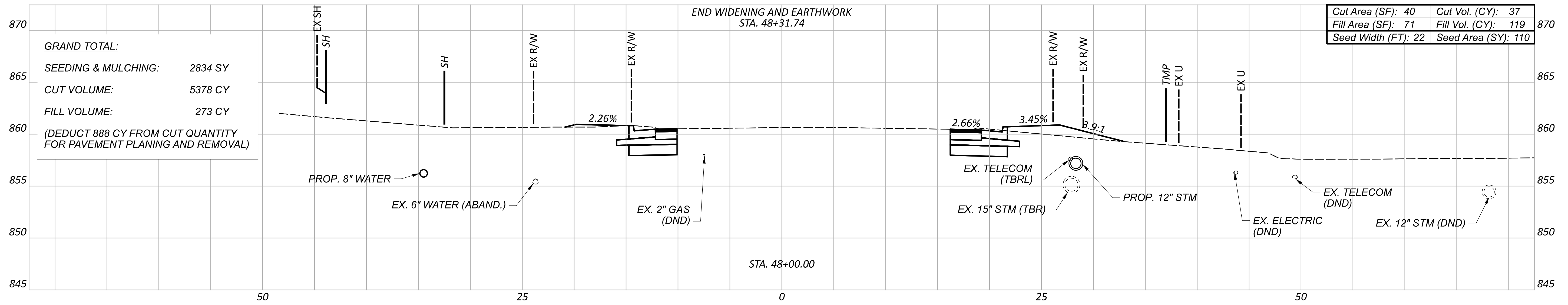
CROSS SECTIONS - BARDES RD.
 STA. 46+00.00 TO STA. 46+50.00

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WSP
 WSP USA, Inc.
 312 Elm Street,
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DESIGNER
 JHH

REVIEWER
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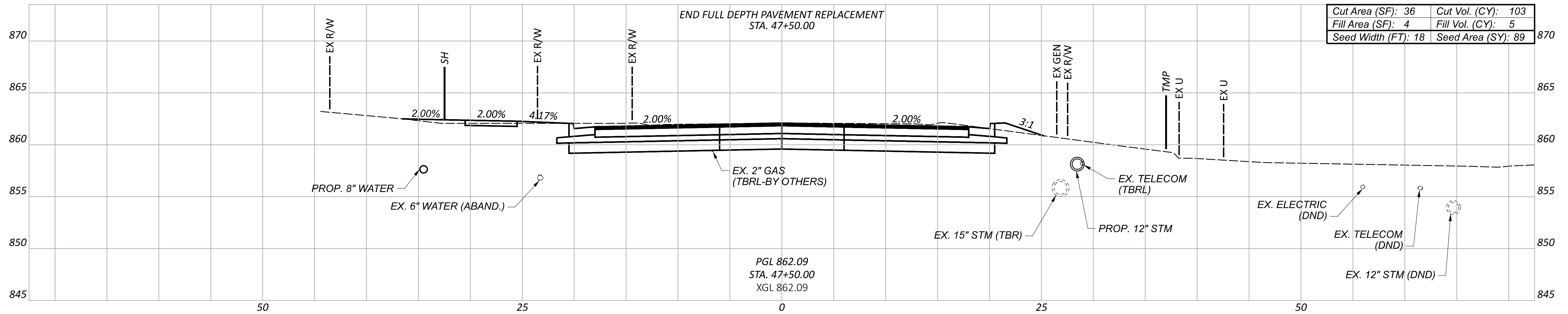
PROJECT ID
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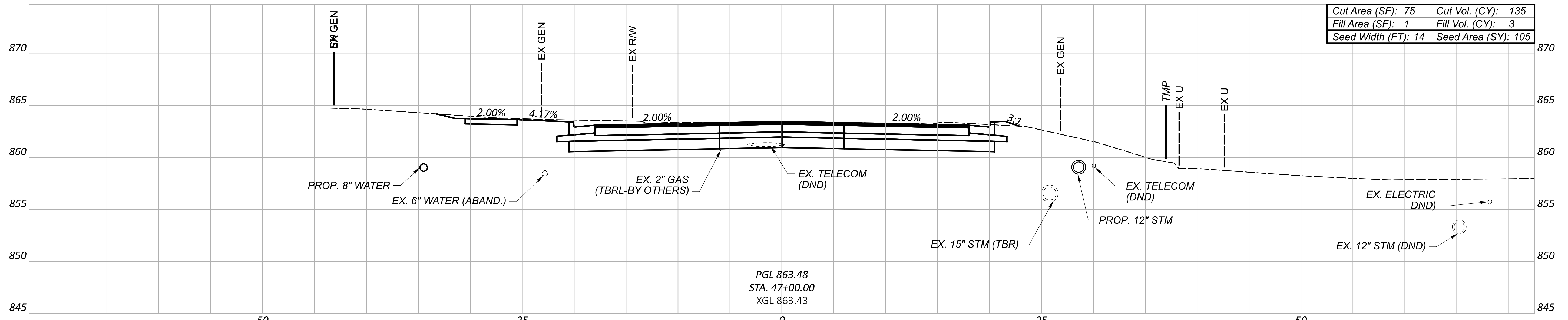
GRAND TOTAL:

SEEDING & MULCHING:	2834 SY
CUT VOLUME:	5378 CY
FILL VOLUME:	273 CY
(DEDUCT 888 CY FROM CUT QUANTITY FOR PAVEMENT PLANING AND REMOVAL)	

Cut Area (SF): 40	Cut Vol. (CY): 37
Fill Area (SF): 71	Fill Vol. (CY): 119
Seed Width (FT): 22	Seed Area (SY): 110



Cut Area (SF): 36	Cut Vol. (CY): 103
Fill Area (SF): 4	Fill Vol. (CY): 5
Seed Width (FT): 18	Seed Area (SY): 89



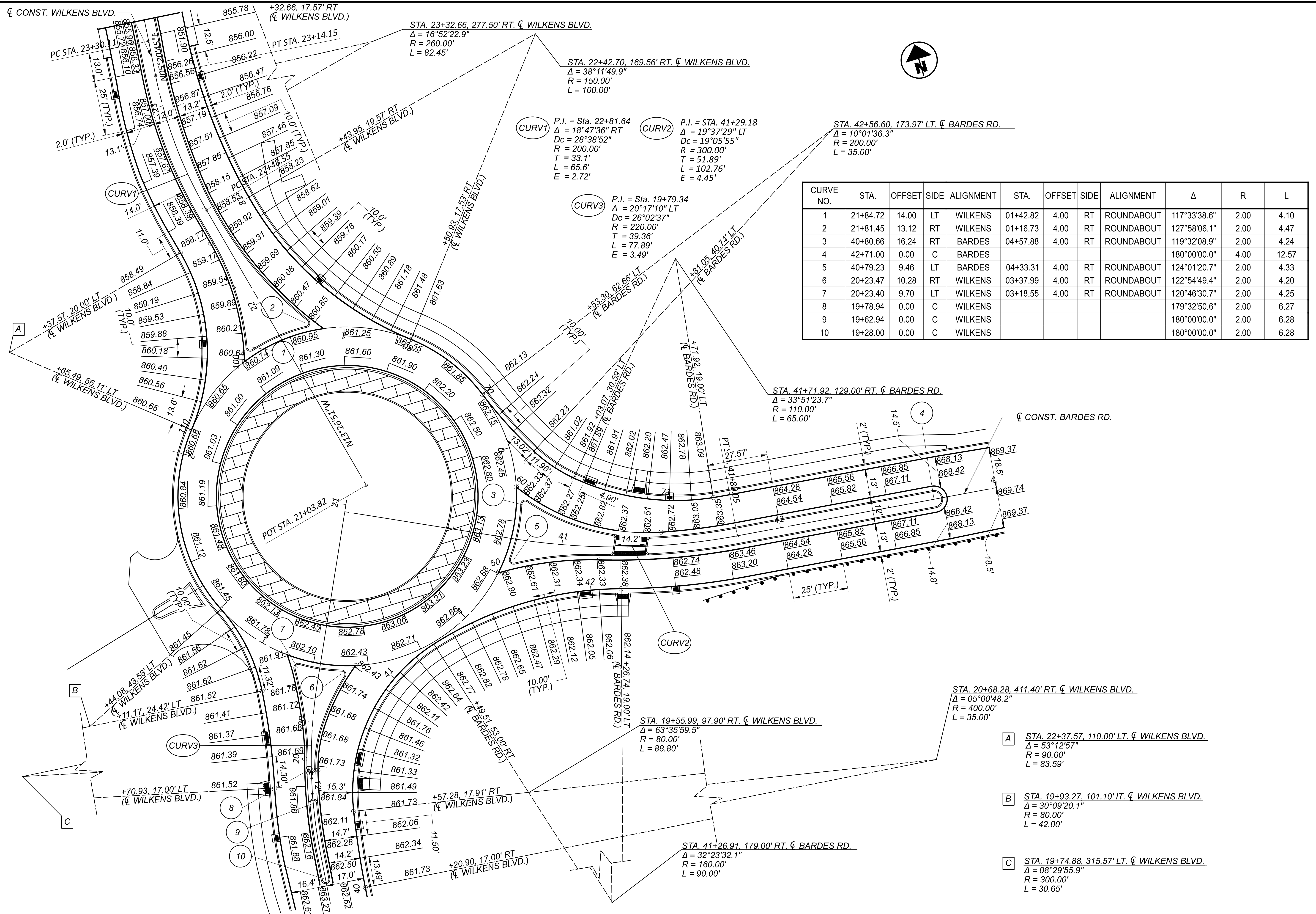
Cut Area (SF): 75	Cut Vol. (CY): 135
Fill Area (SF): 1	Fill Vol. (CY): 3
Seed Width (FT): 14	Seed Area (SY): 105

CROSS SECTIONS - BARDES RD.
 STA. 47+00.00 TO STA. 48+00.00

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Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
304	275	127	52	76



CURVE NO.	STA.	OFFSET	SIDE	ALIGNMENT	STA.	OFFSET	SIDE	ALIGNMENT	Δ	R	L
1	21+84.72	14.00	LT	WILKENS	01+42.82	4.00	RT	ROUNDAABOUT	117°33'38.6"	2.00	4.10
2	21+81.45	13.12	RT	WILKENS	01+16.73	4.00	RT	ROUNDAABOUT	127°58'06.1"	2.00	4.47
3	40+80.66	16.24	RT	BARDES	04+57.88	4.00	RT	ROUNDAABOUT	119°32'08.9"	2.00	4.24
4	42+71.00	0.00	C	BARDES					180°00'00.0"	4.00	12.57
5	40+79.23	9.46	LT	BARDES	04+33.31	4.00	RT	ROUNDAABOUT	124°01'20.7"	2.00	4.33
6	20+23.47	10.28	RT	WILKENS	03+37.99	4.00	RT	ROUNDAABOUT	122°54'49.4"	2.00	4.20
7	20+23.40	9.70	LT	WILKENS	03+18.55	4.00	RT	ROUNDAABOUT	120°46'30.7"	2.00	4.25
8	19+78.94	0.00	C	WILKENS					179°32'50.6"	2.00	6.27
9	19+62.94	0.00	C	WILKENS					180°00'00.0"	2.00	6.28
10	19+28.00	0.00	C	WILKENS					180°00'00.0"	2.00	6.28

INTERSECTION DETAIL
 WILKENS BLVD. / BARDES RD.



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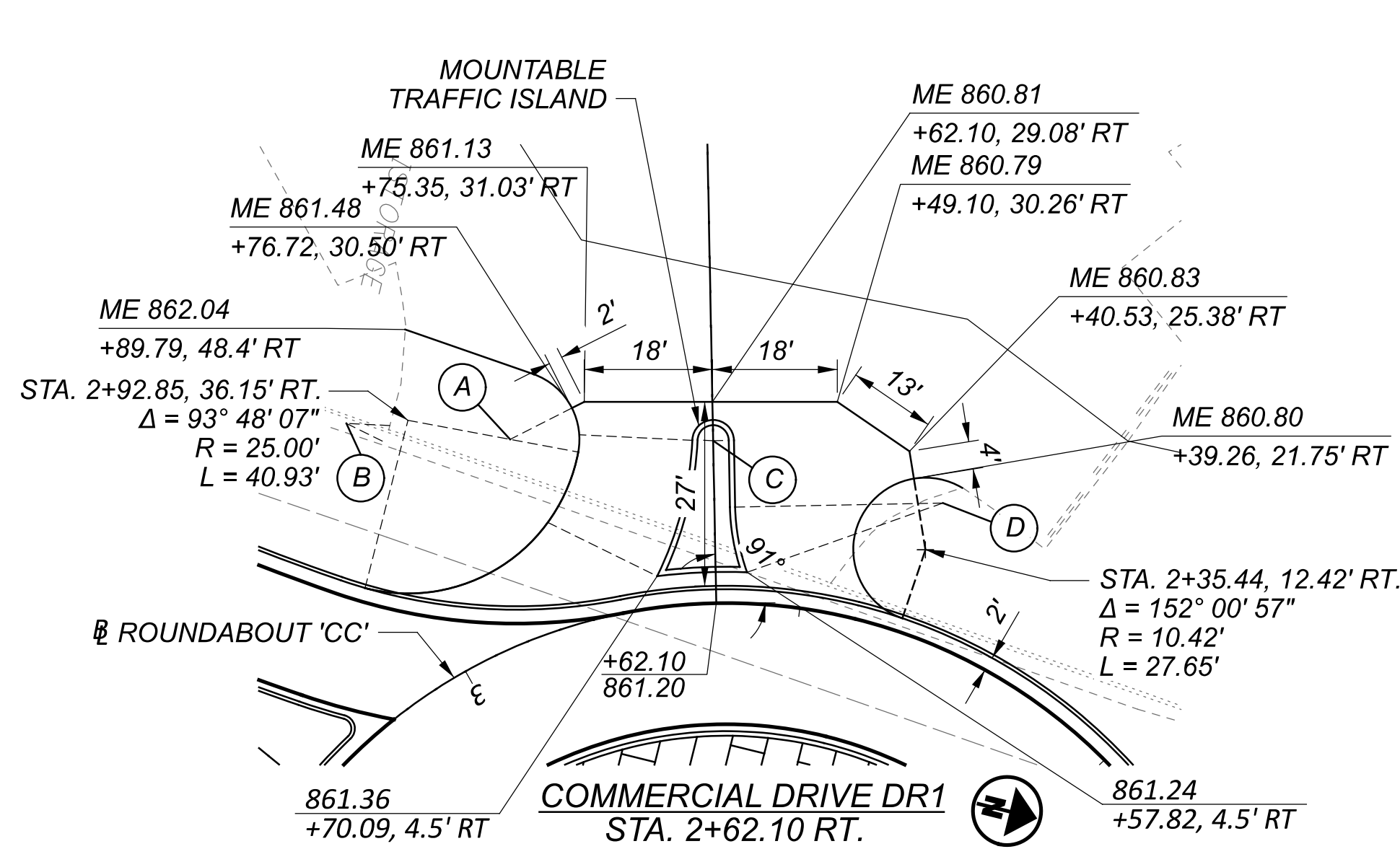
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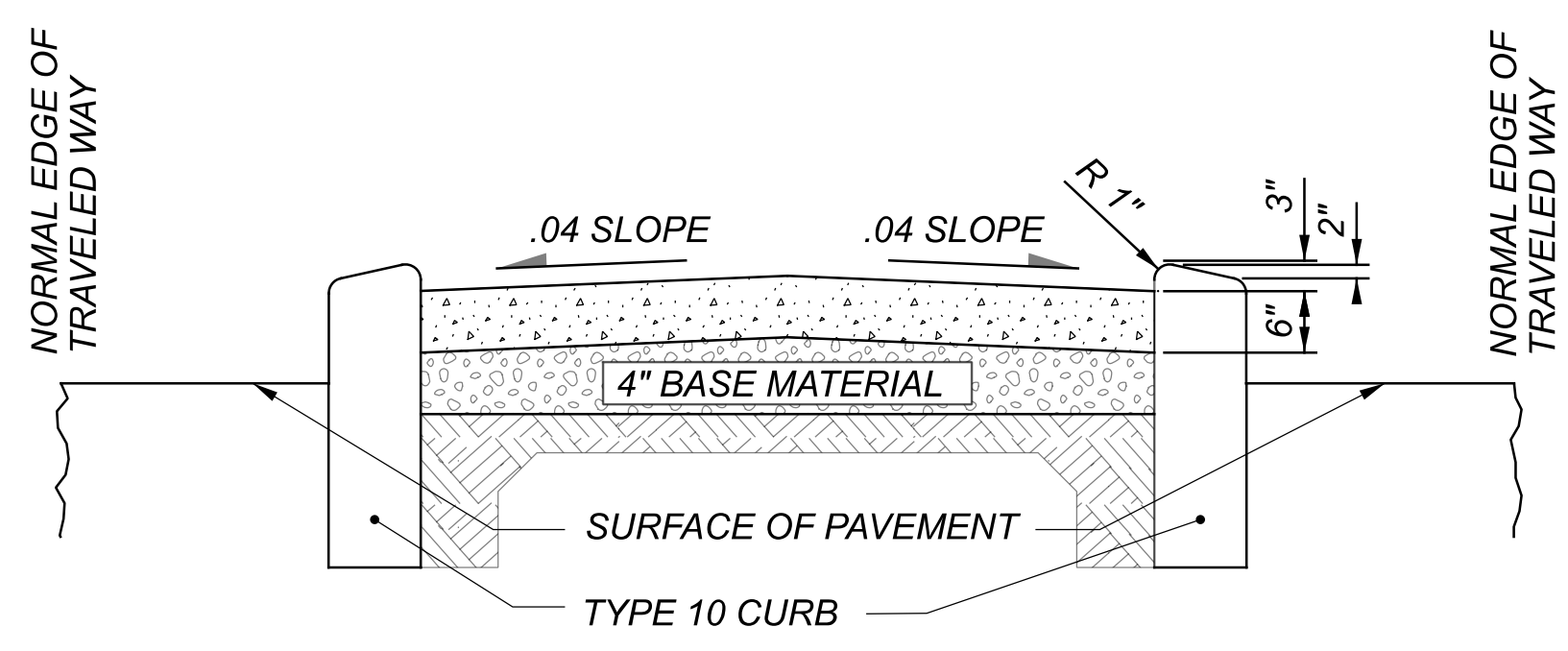
SHEET

TOTAL

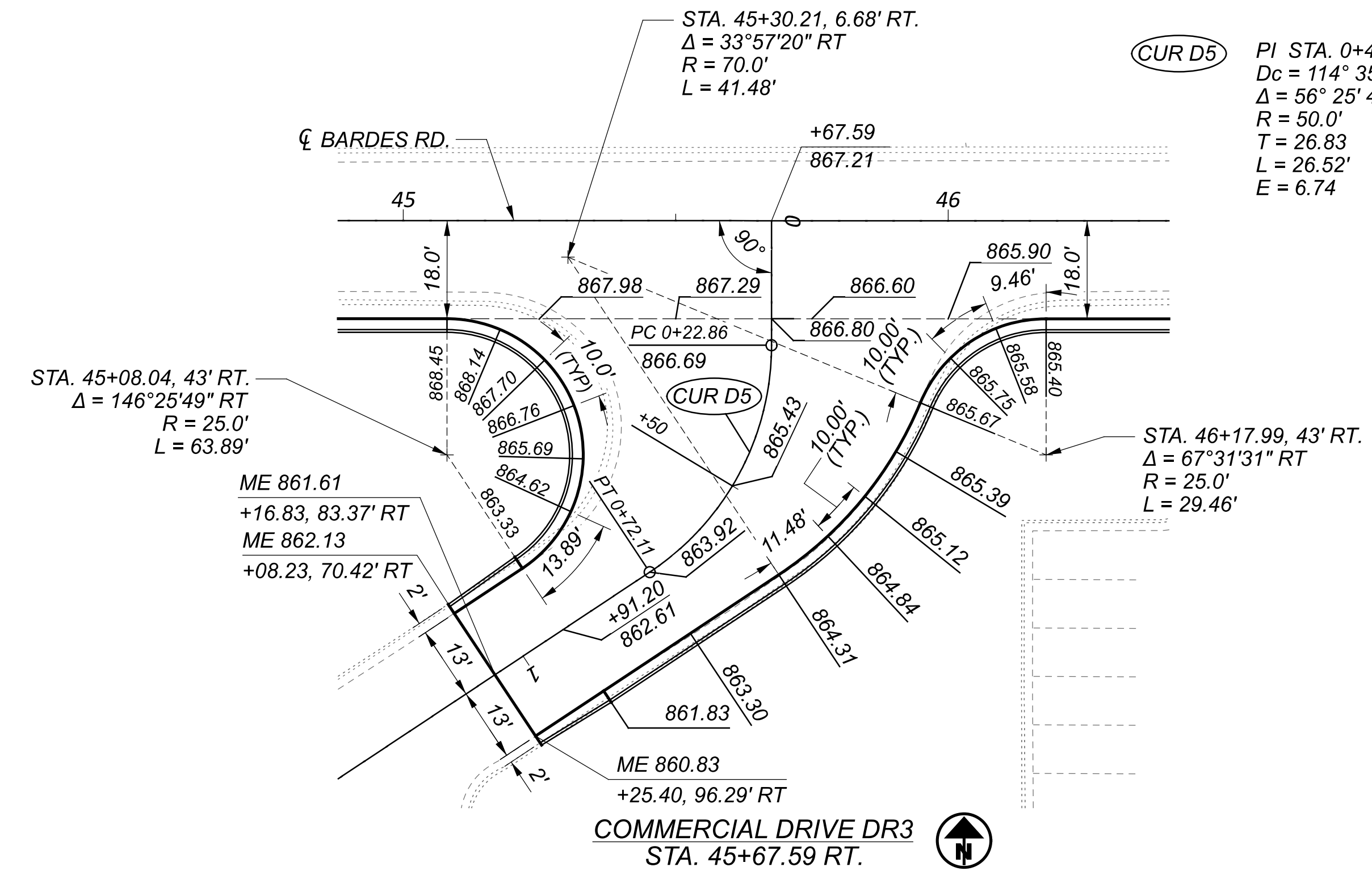
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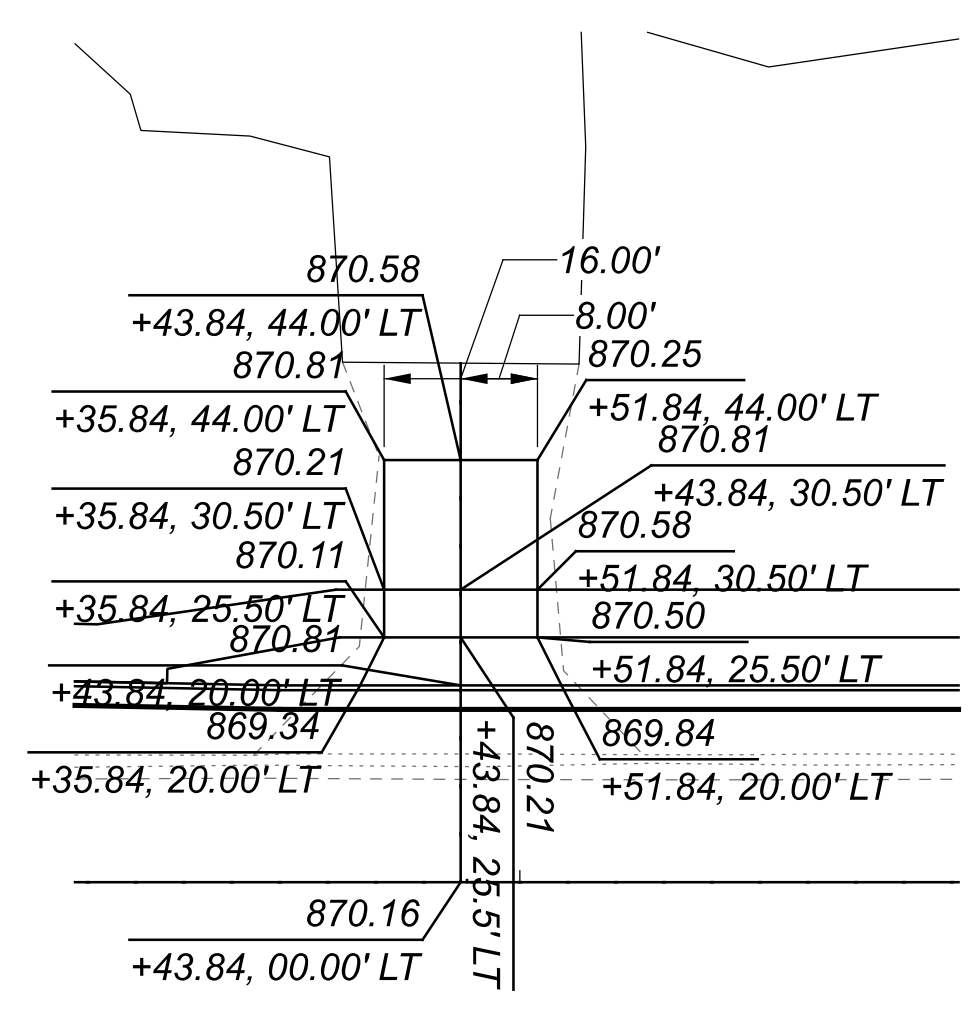
- (A) STA. 2+83.79, 28.37' RT.
Δ = 37°24'58"
R = 10.00'
L = 6.53'
- (B) STA. 3+58.80, 56.53' LT.
Δ = 23°28'48"
R = 50.00'
L = 20.49'
- (C) STA. 2+62.10, 23.47' RT.
Δ = 176°12'22"
R = 3.00'
L = 9.23'
- (D) STA. 2+35.27, 19.64' RT.
Δ = 18°22'48"
R = 30.00'
L = 9.62'



ISLAND TYPICAL



PI STA. 0+49.69
Dc = 114° 35' 30"
Δ = 56° 25' 49" RT
R = 50.0'
T = 26.83
L = 26.52'
E = 6.74



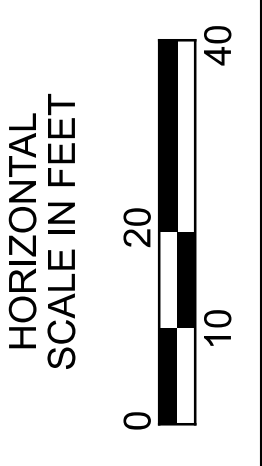
COMMERCIAL DRIVE DR2
STA. 43+43.84 LT.

COMMERCIAL DRIVE PAVEMENT BUILD UP
CONCRETE:
ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P MS
ASPHALT:
MATCH PAVEMENT BUILD UP OF BARDES RD. (SEE PAVEMENT CALCULATIONS)

LEGEND

- NOTE:
ALL SPOT ELEVATIONS SHOWN ALONG THE CURB REPRESENT THE FACE OF THE CURB ELEVATION. UNLESS OTHERWISE NOTED.
- TDC - TOP OF DEPRESSED CURB
 - 8" CONCRETE
 - PAR - PEDESTRIAN ACCESS ROUTE
 - ME - MATCH EXISTING
 - SUP - SHARED USE PATH
 - T/I - TOP OF ISLAND
 - CONCRETE WALK
6" RESIDENTIAL
8" COMMERCIAL
 - TAPER CURB FROM
6" TP 0" IN 5'-0"

REFERENCE NO.	STATION	SIDE	DRIVE TYPE	MATERIAL	DRIVE ANGLE	APRON LENGTH "L1"	DRIVEWAY LENGTH "L2"	WIDTH "W"	R1 (LEFT SIDE RADI OF DRIVE LOOKING FROM CL)	R2 (RIGHT SIDE RADI OF DRIVE LOOKING FROM CL)	CADD GENERATED SURFACE AREA	452 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS	609 CONCRETE MEDIAN	609 CURB, TYPE 10	NOTES
					DEG.	FT.	FT.	FT.	FT.	FT.	SQ. FT.	CY	SF	FT	
WILKENS & BARDES RAB															
DR-1	2+60.63	RT	COM.	CONC.	90.0	27	0	32	25	10.4	1163.0	28.72	127.00	56.00	
BARDES DR.															
DR-2	44+43.84	LT	COM.	CONC.	90	5.5	34	16	5.59	5.59	388.5	9.59			
DR-3	45+67.59	RT	COM.	ASPH.	90.0	N/A	N/A	26	22.5	22.5					SEE OFFICE CALCULATIONS FOR QUANTITIES
TOTALS CARRIED TO GENERAL SUMMARY												38	127	56	



DRIVE DETAILS

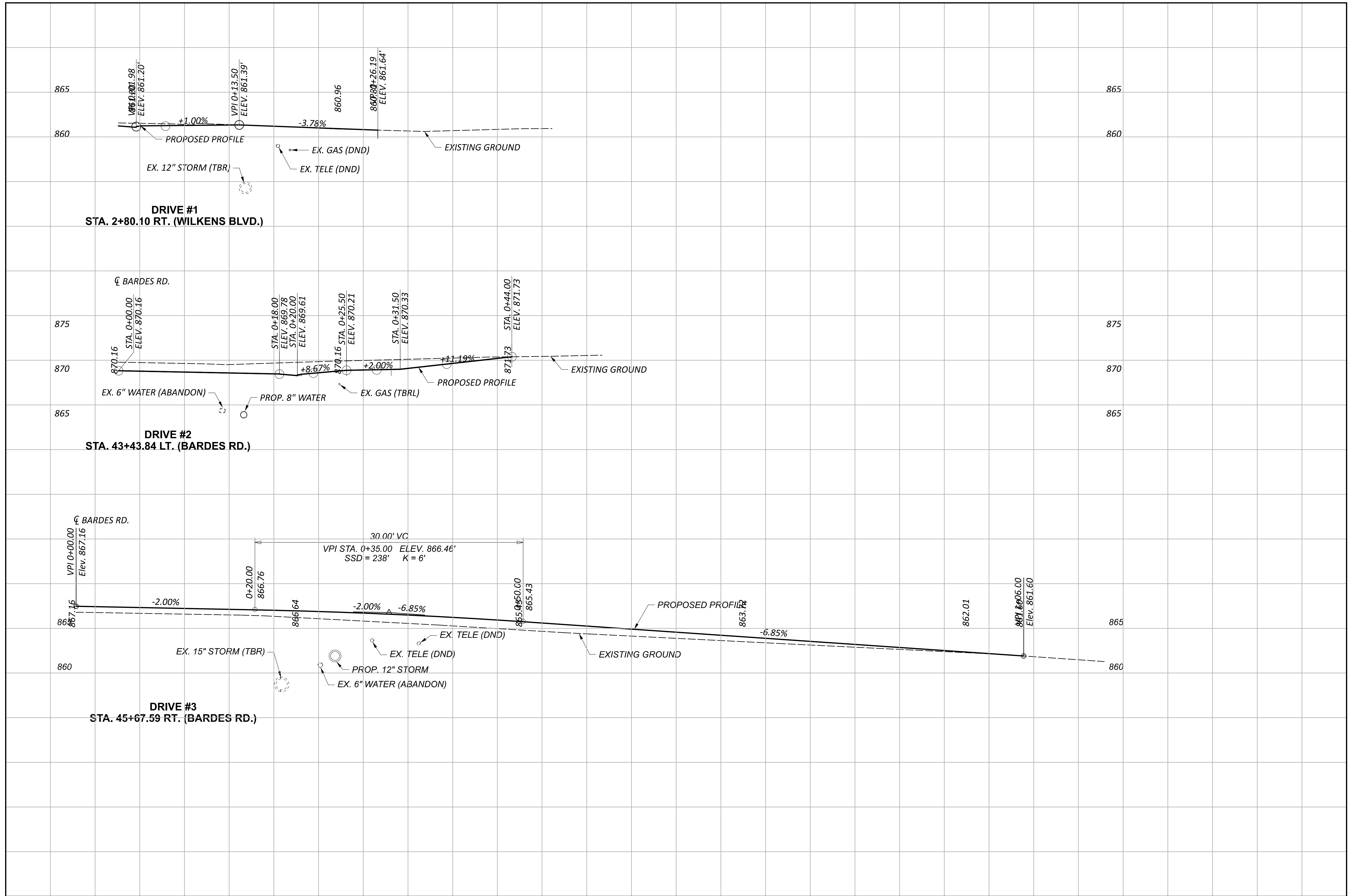
DESIGN AGENCY
wsp
WSP USA, Inc.
312 Elm Street,
Suite 2500
Cincinnati, OH 45202

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PROJECT ID
29076

SHEET TOTAL
54 76



DRIVE PROFILES

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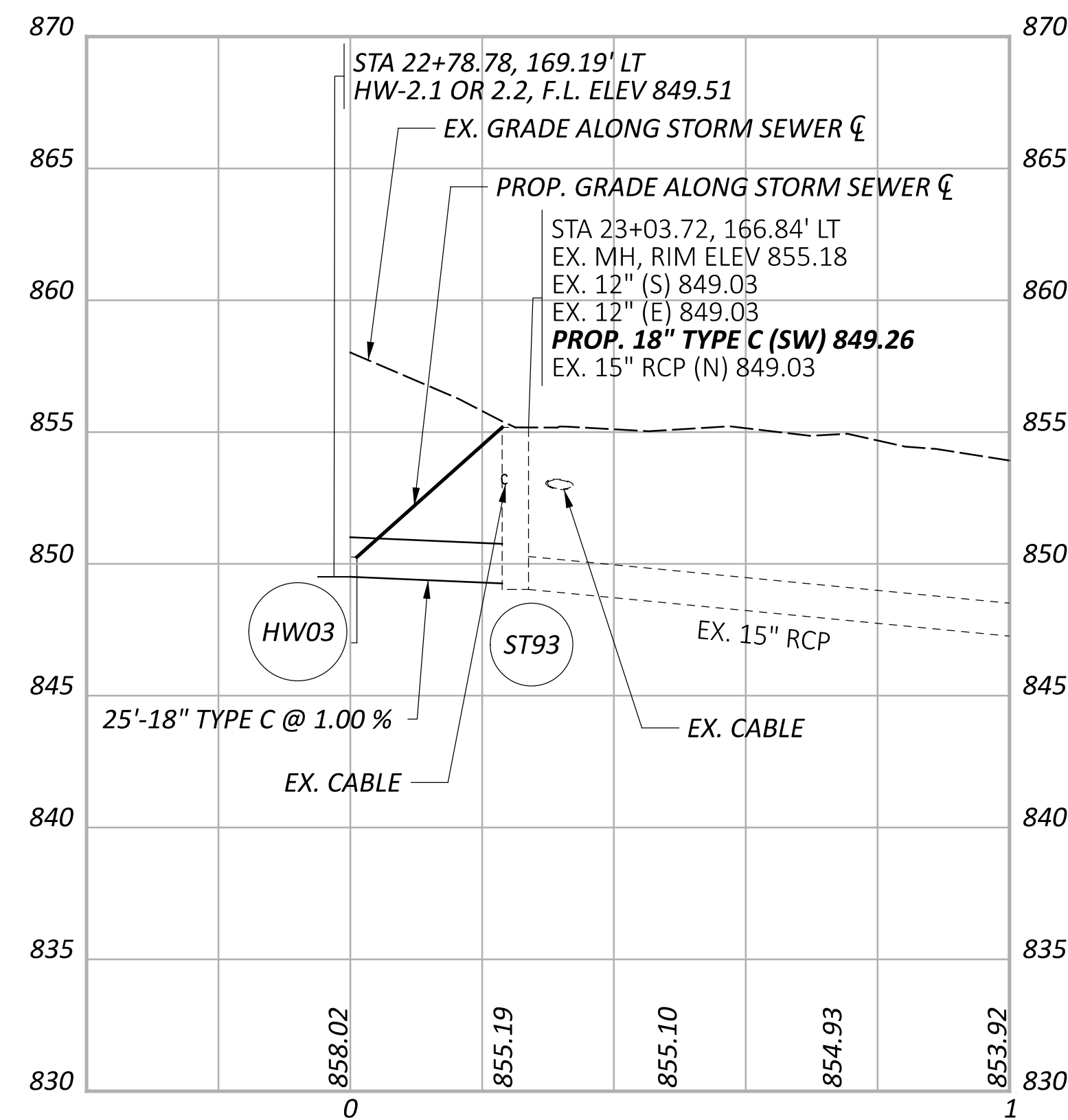
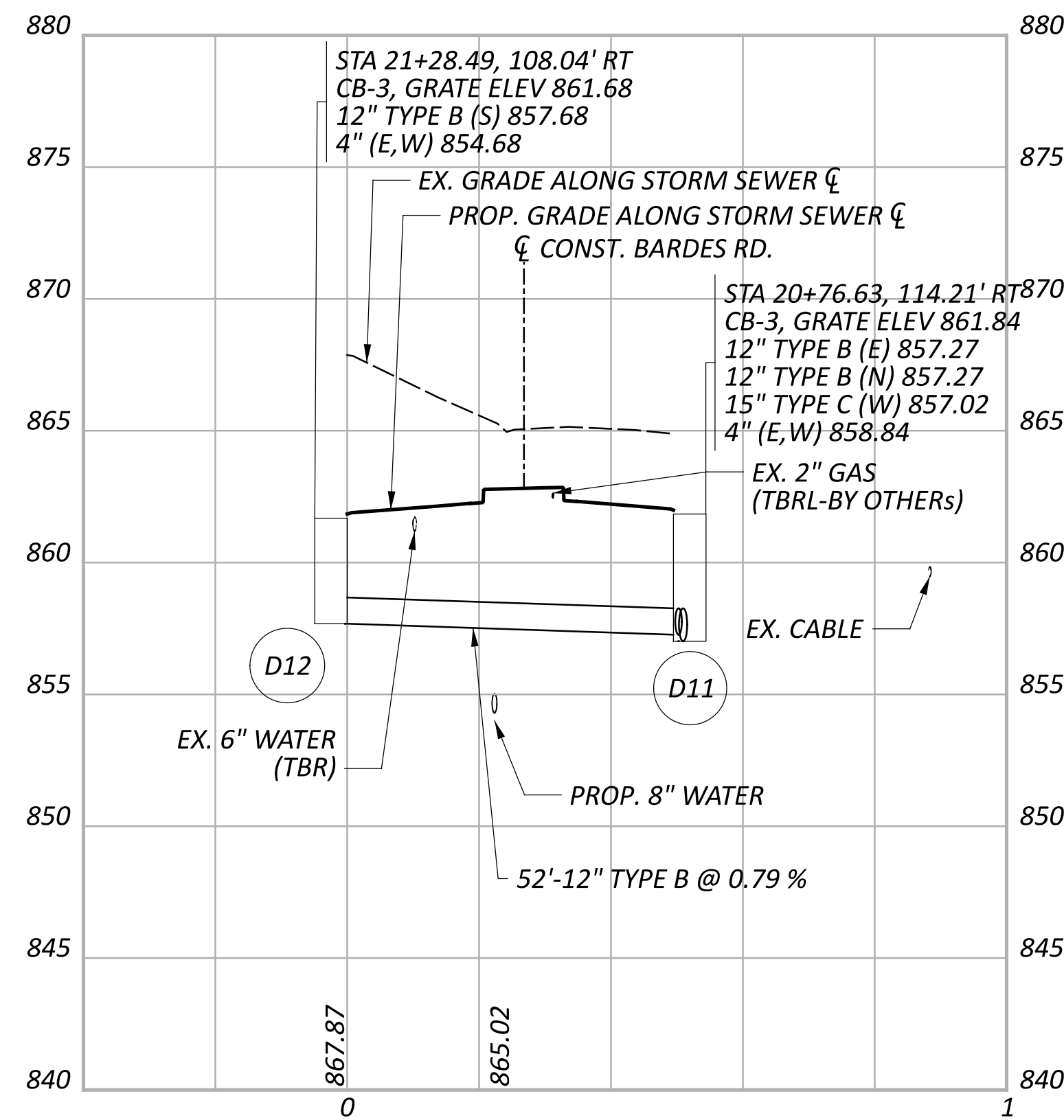
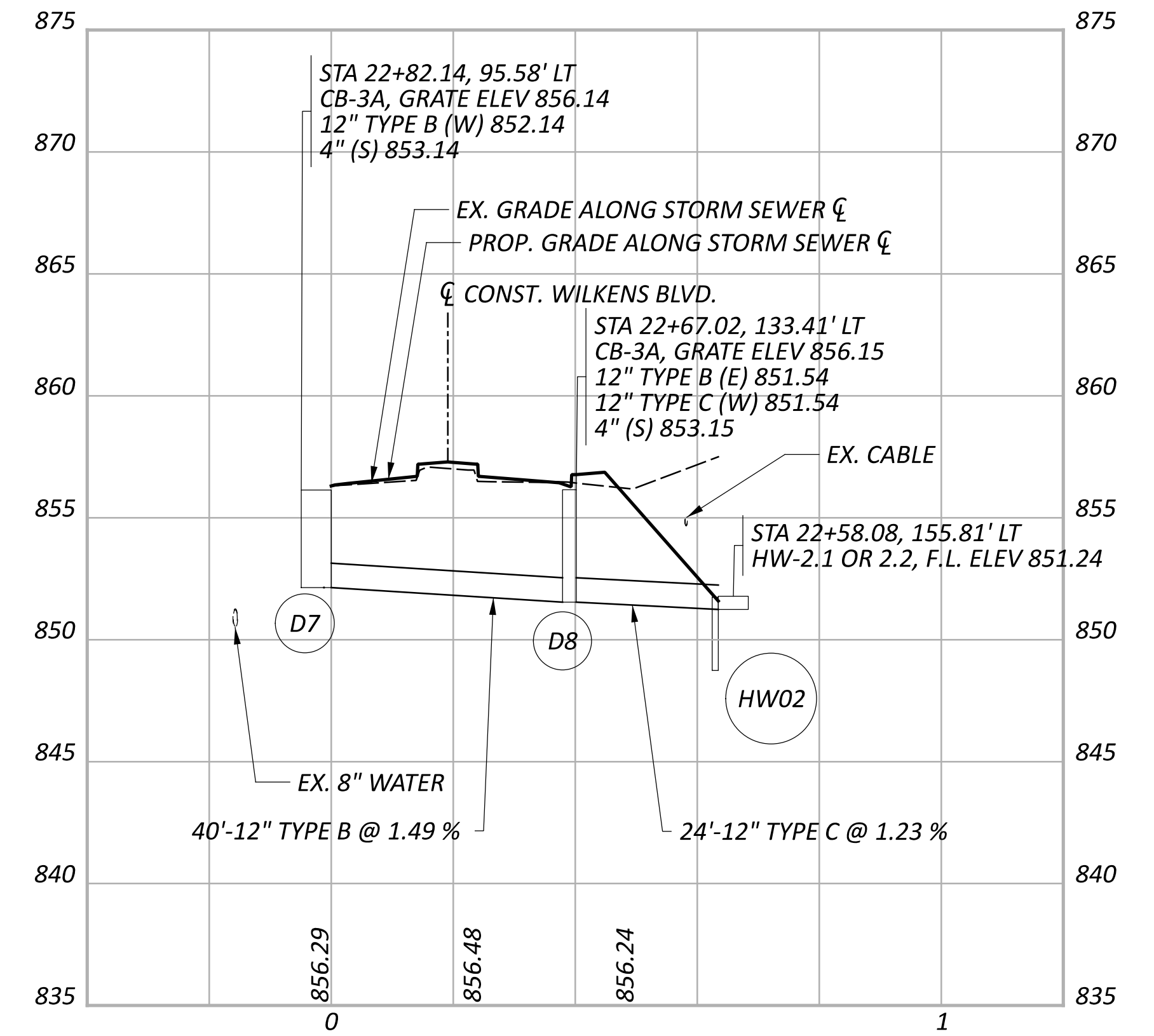
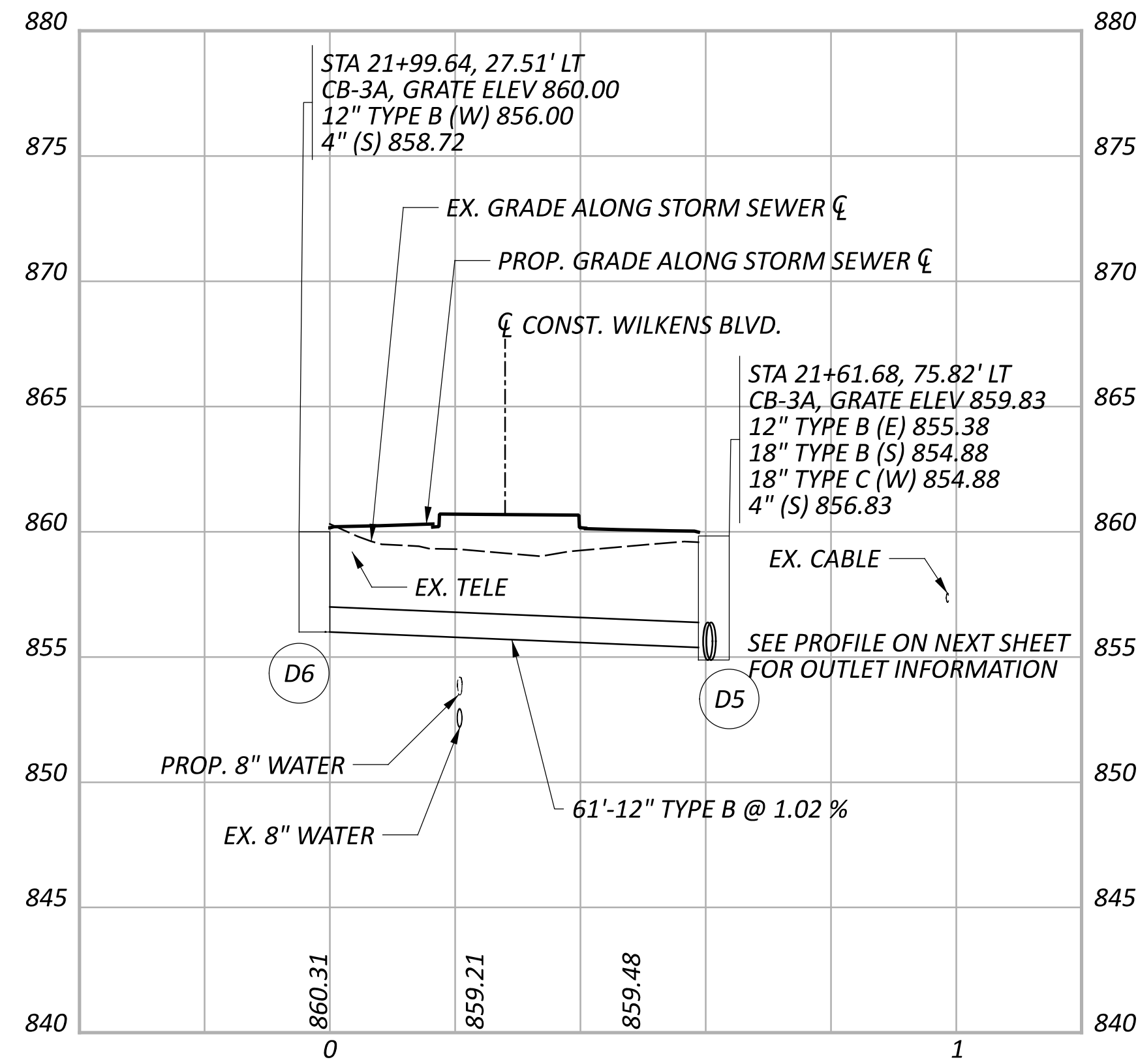
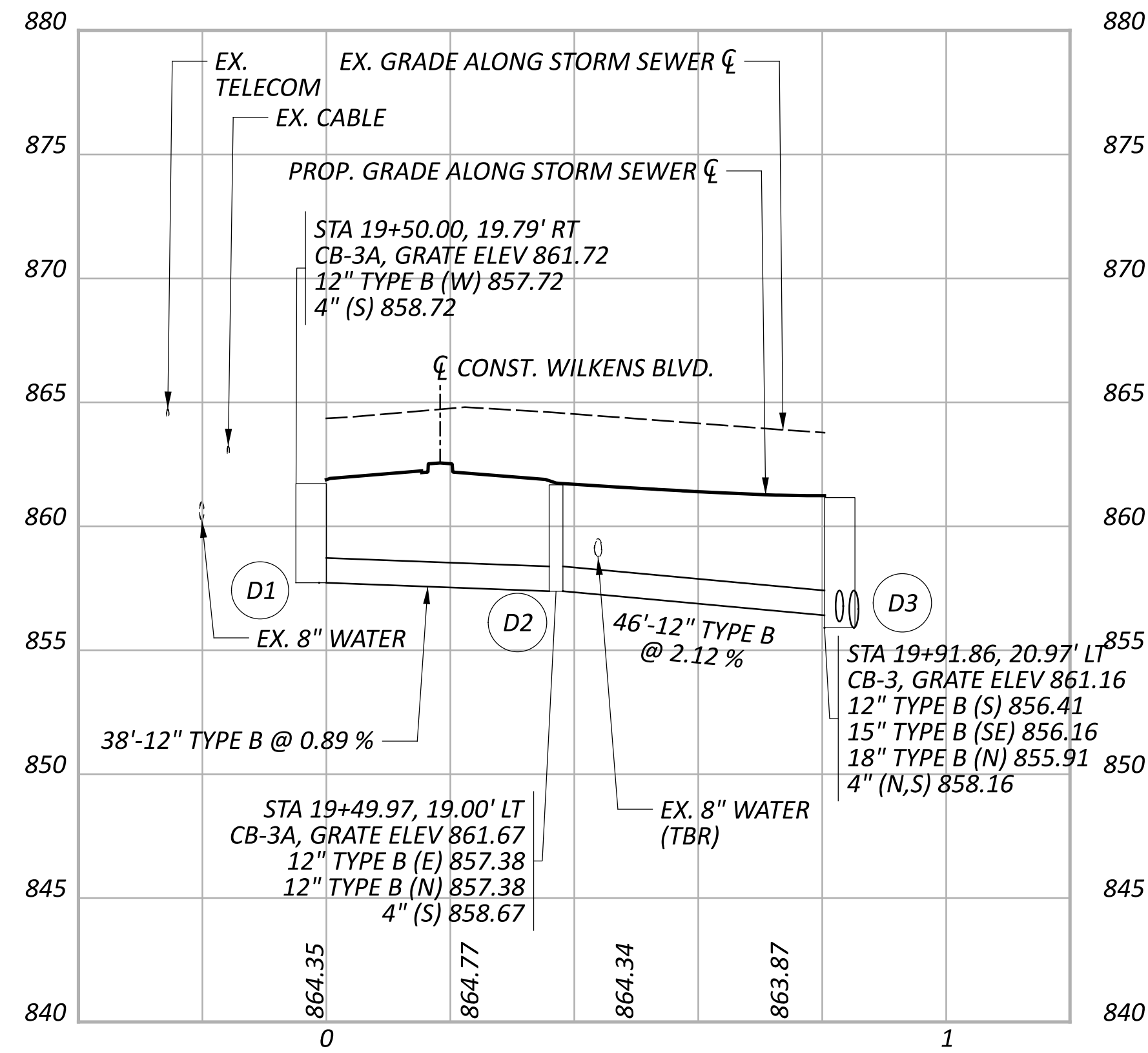
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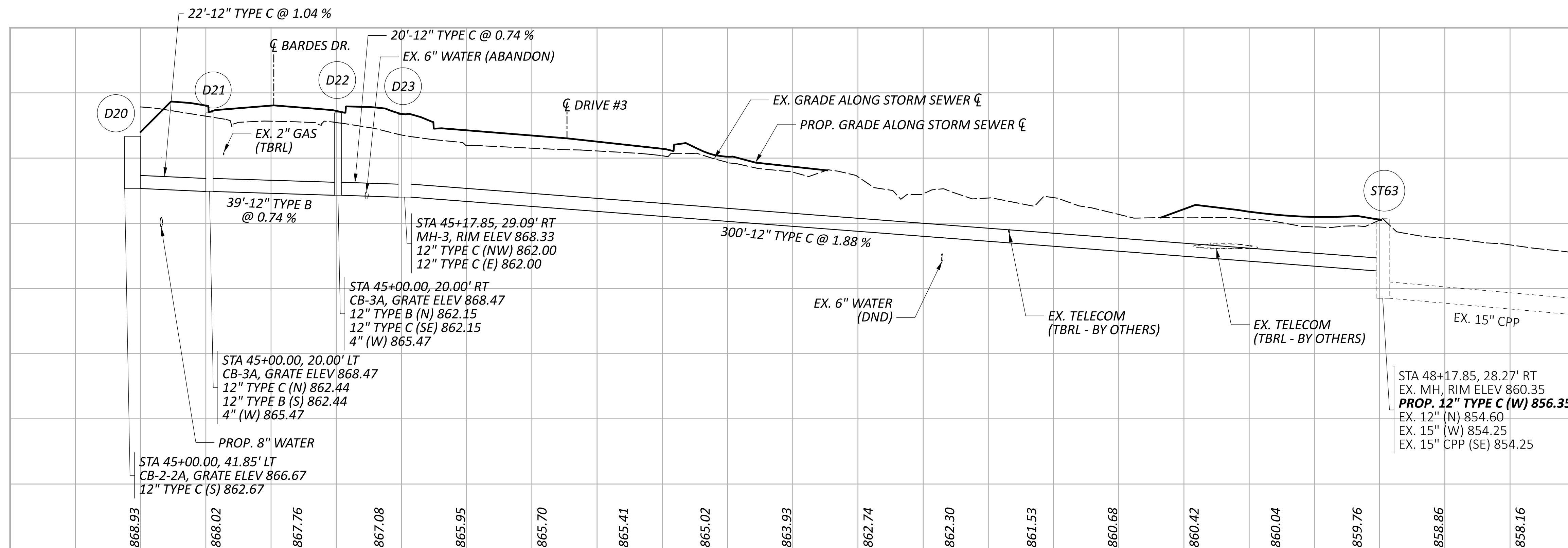
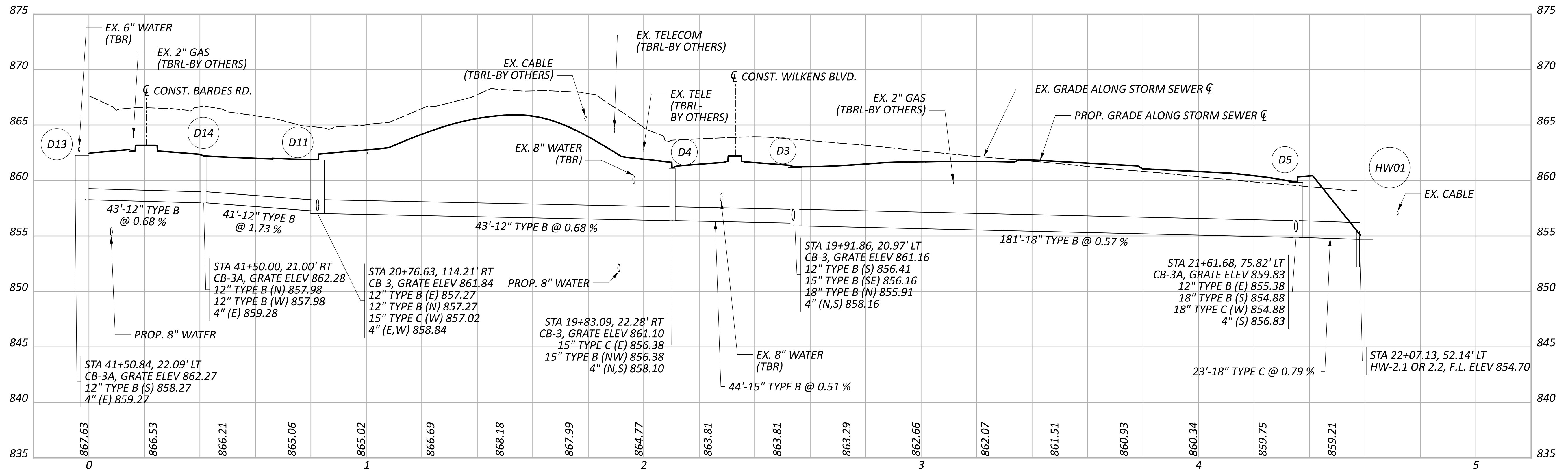
SHEET

55

TOTAL

76





LONGITUDINAL SEWER PROFILES

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SHEET TOTAL

57 76

WATER

1. ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 4'-6".
- A) ALL WATER SERVICE LATERALS SHALL HAVE A MINIMUM COVER OF 42".
2. ALL WATER MAINS SHALL BE DUCTILE IRON CONFORMING WITH AWWA SPEC. C-151 CLASS 52 IN SIZES 4"-16" AND PSI CLASS 350 FOR 20" AND ABOVE.
3. COMPACT FITTINGS ARE PERMITTED.
4. ALL WATER VALVES MUST OPEN LEFT. ALL VALVE BOX LIDS MUST BE CAST/STAMPED "WCWD" IN 1 1/2" LETTERS AND BE NEENAH NF-19130002 OR EQUAL. ALL VALVE EXTENSIONS TO HAVE SET SCREWS.
5. A CONCRETE SLAB MUST BE PROVIDED AT FINAL GRADE AROUND ALL MAIN VALVE BOXES. THE SLABS MUST BE EIGHTEEN INCHES (18") SQUARE /CIRCLE AND NINE INCHES (9") THICK. PRE-FABRICATED CONCRETE RINGS ARE ACCEPTABLE.
6. WATER AND SEWER LINES SHALL HAVE A MINIMUM OF TEN FEET (10') HORIZONTAL SEPARATION AND/ OR TWO FEET (2') VERTICAL SEPARATION.
7. NO GATE VALVE, METER PIT, BLOW OFF OR CORPORATION STOP SHALL BE LOCATED UNDER OR WITHIN THREE FEET (3') OF DRIVEWAYS, ROADWAYS OR SIDEWALKS.
8. NO DRIVEWAY SHALL BE INSTALLED WITHIN FIVE FEET (5') OF A FIRE HYDRANT.
9. A MINIMUM OF THREE FEET (3') IS REQUIRED BETWEEN CORPORATION STOPS. NO TAP SHALL BE MADE WITHIN THREE (3') OF A BELL.
10. THE LOCATION OF WATER SERVICE LATERALS MUST BE STAMPED IN THE CURB AT THE TIME THE CURB IS PLACED TO PERMANENTLY INDICATE THE LOCATION OF SAID LATERALS.
11. THE LOCATION OF ALL WATER SERVICE LATERALS, BENDS, TEES, ETC. MUST BE PROVIDED ON THE AS-BUILT PLANS. ALL OF THESE APPURTENANCES SHOULD BE SURVEYED IN STATE PLANE COORDINATES AND ELECTRONICALLY DELIVERED WITH AS-BUILTS.
12. CONTRACTOR SHALL SUBMIT AS-BUILT PLANS OF SANITARY AND WATER LATERALS TO THE OWNER.
13. ALL WATER MAINS CROSSING UNDER STORM DRAINS SHALL BE BACK-FILLED WITH GRANULAR MATERIAL, O.D.O.T. ITEM 310.02, BETWEEN MAINS AND DRAINS.
14. EACH SERVICE LATERAL MUST BE A CONTINUOUS PIECE OF PIPE FROM THE CORP STOP TO THE METER. COUPLINGS SHALL NOT BE ALLOWED. TYPE K COPPER SHALL BE USED FOR 3/4" AND 1" SERVICES. POLYETHYLENE 200 PSI (COPPER TUBE SIZE) MAY BE USED FOR 1 1/2" AND 2" SERVICES. TRACER WIRE MUST BE USED WITH POLY AND SDR 21.
15. SERVICE LINES 1" AND LARGER MUST BE EITHER TYPE K COPPER, POLY 200 PSI (ASTM D-2737) OR SDR 21 (SLIP JOINT) (ASTM-2241). TRACER WIRE MUST BE TAPED EVENLY EVERY 3' ON POLY AND SDR 21 FROM THE METER PIT INTO THE STRUCTURE BEING SERVED (A 3' LEAD IS REQUIRED INSIDE THE PIT).
16. 1 1/2" AND 2" SERVICE LINES FROM THE CORP STOP TO THE METER PIT MUST BE TYPE K COPPER OR POLYETHYLENE 200 PSI. POLY MUST HAVE A TRACER WIRE. SEE W-10B.
17. FIRE HYDRANTS MUST BE PROVIDED AT THE ENTRANCE TO ALL SUBDIVISIONS AND AT ALL STREET INTERSECTIONS.

18. AN APPROVED BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED ON ALL WATER SERVICE LATERALS BY THE PROPERTY OWNER PRIOR TO ANY POINT OF CONNECTION OR USAGE. THE FOLLOWING DEVICES AND LOCATIONS ARE REQUIRED.

- A) RESIDENTIAL DWELLING UNITS (3 FAMILY OR LESS): LOCATED IMMEDIATELY UPON ENTRY OF STRUCTURE. DUEL CHECK VALVE A.S.S.E. 1024.
- B) LANDSCAPE IRRIGATION SYSTEMS: REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY A.S.S.E. 1013. LOCATED IMMEDIATELY UPON ENTRY OF STRUCTURE.
- C) FIRE PROTECTION SYSTEMS: DOUBLE CHECK DETECTOR CHECK ASSEMBLY A.S.S.E. 1048 OR REDUCED PRESSURE PRINCIPLE DETECTOR CHECK A.S.S.E. 1047 IF SYSTEM CONTAINS ADDITIVES; A.S.S.E. 1048 LOCATED IN VAULT AND A.S.S.E. 1047 LOCATED IN BUILDING.
- D) NON-RESIDENTIAL SERVICES: REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY A.S.S.E. 1013, LOCATED IMMEDIATELY UPON ENTRY OF STRUCTURE.

19. SWAB PIPE WITH 50 PPM CHLORINE SOLUTION BEFORE INSTALLATION.
20. ALL NEW WATER MAINS SHALL BE PRESSURE TESTED FOR 2 HOURS AT 200 PSI, WHICHEVER IS GREATER. ALLOWABLE LEAKAGE SHALL BE PER TABLE 6A OF AWWA C-600.
21. DEDUCT METERS SHALL NOT BE ALLOWED.
22. NO IRRIGATION CONNECTIONS SHALL BE ALLOWED IN THE METER PIT.
23. BACK FLOW PREVENTER THAT COMPLIES WITH A.S.S.E. 1013 IS TO BE INSTALLED AHEAD OF ANY SPRINKLER BUT NOT IN METER PIT.
24. ALL MATERIALS USED SHALL BE DOMESTIC, MADE IN THE UNITED STATES OF AMERICA.

PROCEDURE FOR CONNECTION TO EXISTING WATER SYSTEM

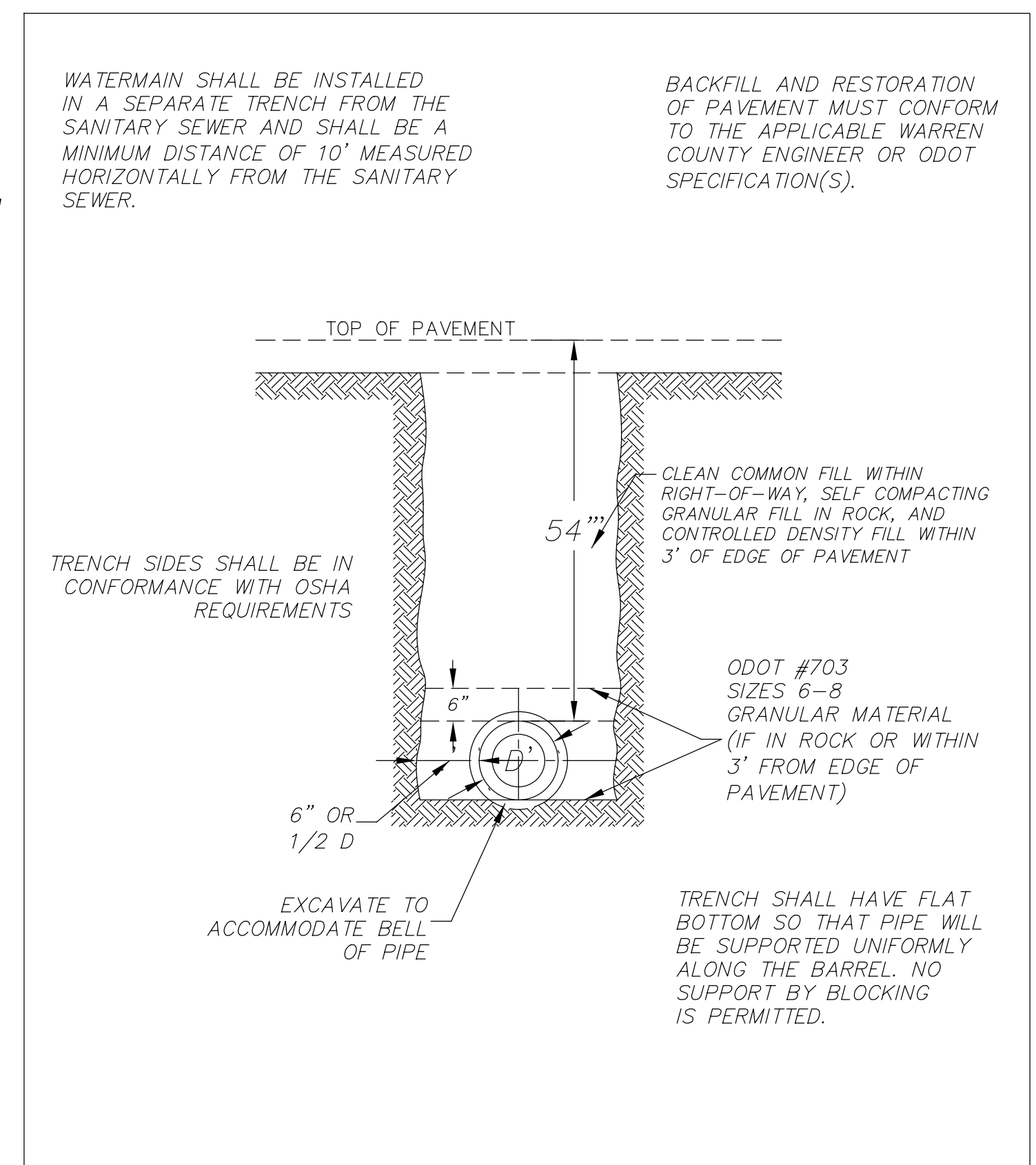
1. MUST NOTIFY WARREN COUNTY WATER DEPARTMENT THREE (3) DAYS IN ADVANCE OF ANY SHUT DOWN. WARREN COUNTY WILL ISSUE THE SHUT DOWN NOTIFICATION AND/OR BOIL ADVISORY TO AFFECTED CUSTOMERS PER OHIO EPA REQUIREMENTS IF DETERMINED NECESSARY BY WARREN COUNTY.
2. EXPOSE EXISTING MAIN AT PROPOSED CONNECTION POINT. NO WET TAP SHALL BE MADE WITHIN THREE (3) FEET OF A BELL OR PIPE CONNECTION.
3. COUNTY PERSONNEL TO OPERATE CLOSING OF APPROPRIATE VALVES TO ISOLATE LINE TO BE TAPPED.
4. INSTALL PROPER TAPPING SLEEVE AND TAPPING VALVE. THE TAPPING SLEEVE AND VALVE SHALL BE TESTED AT 200 PSI FOR A PERIOD OF AT LEAST 5 MINUTES. THE PIPE SLUG MUST BE REMOVED AND INSPECTED BY COUNTY PERSONNEL.
5. IF THE TAPPING SLEEVE AND VALVE WILL BE UNDER FUTURE PAVEMENT, THE BURIED VALVE MUST BE LEFT OPEN AND A NEW VALVE SET OUT OF PAVEMENT.
6. FIELD CUT EXISTING MAIN AS NECESSARY TO ACCOMMODATE TEE AND CLOSE COUPLED VALVES AT EACH END OF TEE. CARE IS TO BE TAKEN SO AS NOT TO GET DIRT IN EXISTING MAIN.
7. THOROUGHLY CLEAN AND DISINFECT PIPE AND APPURTENANCES TO BE INSTALLED.

8. INSTALL TEE AND VALVES - DRESSER COUPLINGS CAN BE USED IF NECESSARY. PROPOSED MAIN VALVE IS TO BE CAPPED AND SHUT OFF. EXISTING MAIN IS THEN TO BE RETURNED TO SERVICE BY COUNTY PERSONNEL.

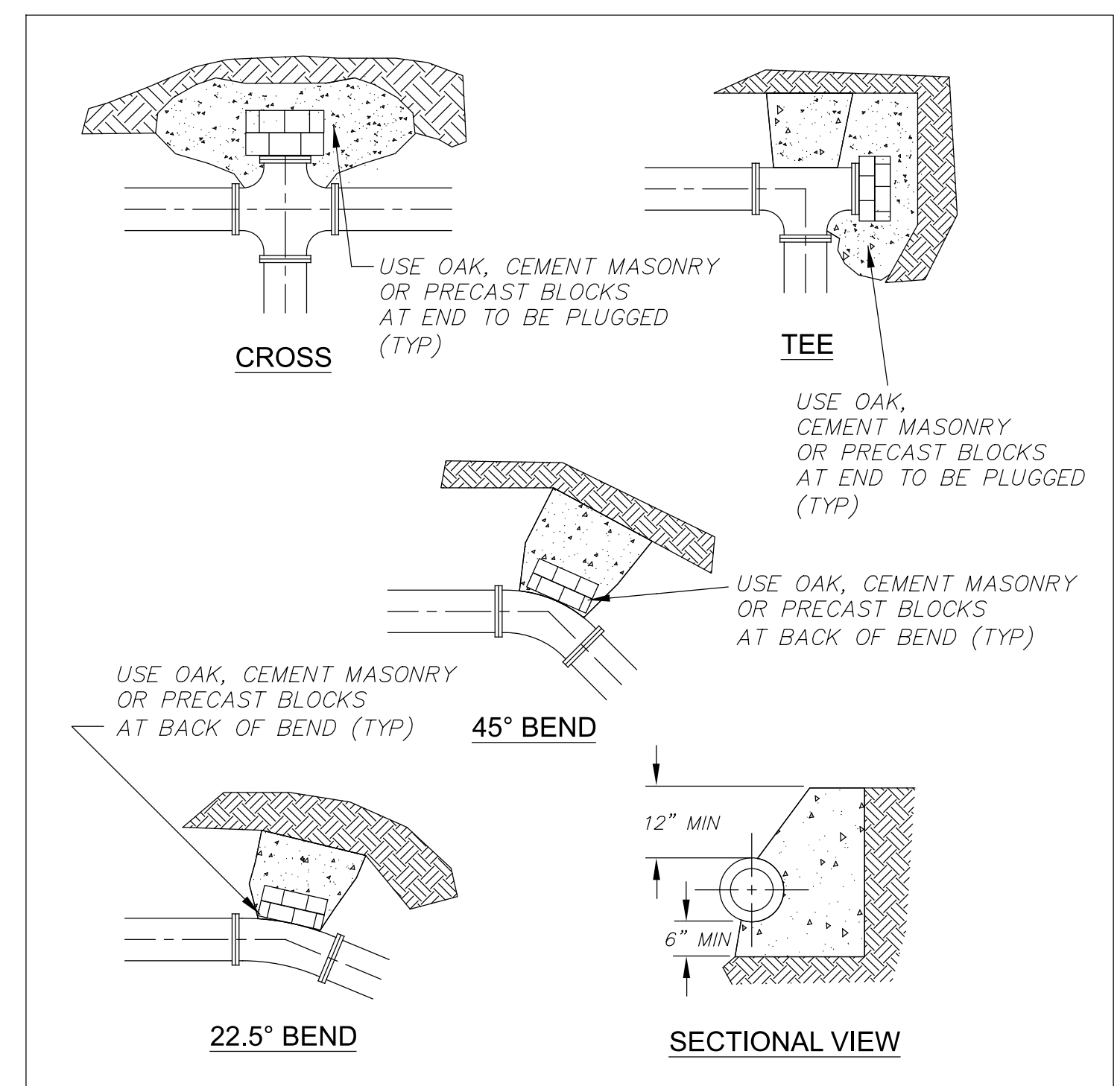
9. CONSTRUCTION OF PROPOSED MAIN IS TO BE COMPLETED WITHIN A JOINT OF CONNECTION TO TEE AND VALVES INSTALLED ABOVE.
10. ENTIRE LINE IS TO BE PRESSURE TESTED AND DISINFECTED TO COUNTY STANDARDS.
11. ENTIRE LENGTH OF PIPE IS TO BE THOROUGHLY CLEANED AND DISINFECTED PRIOR TO INSTALLATION. PERMATEX CHLORINE TABLETS TO BE USED FOR DISINFECTION. DOSAGE SHALL BE PER MANUFACTURER'S SPECIFICATIONS BASED ON PIPE MATERIAL.
12. NEW MAIN IS TO BE PUT INTO SERVICE BY COUNTY PERSONNEL.
13. TAPPING SLEEVES/SADDLES TO BE TWO-PIECE CAST IRON OR DUCTILE IRON (MUELLER H615). JCM412 OR FORD FTSS TAPPING SLEEVES PERMITTED ON C-900. SIZE ON SIZE TAPPING SLEEVES ARE NOT PERMITTED.

PROCEDURE FOR RELOCATING OR LOWERING SERVICE LATERAL AND RELOCATING OR BRINGING TO GRADE METER PITS

1. ALL AFFECTED USERS MUST BE NOTIFIED FORTY-EIGHT (48) HOURS IN ADVANCE AS TO THE TIME AND DURATION OF THE SHUTOFF. ANY DISCONTINUANCE OF SERVICE MUST BE COORDINATED THROUGH WARREN COUNTY PRIOR TO ANY SHUT DOWN.
2. ALL WORK MUST BE PERFORMED ACCORDING TO ALL WARREN COUNTY SPECIFICATIONS, PARTICULARLY W-10A, W-10B, AND W-12.
3. EACH SERVICE LATERAL MUST BE A CONTINUOUS PIECE OF PIPE FROM THE CORP STOP TO THE METER. COUPLINGS SHALL NOT BE PERMITTED. TYPE K COPPER SHALL BE USED FOR 3/4" AND 1" SERVICES. POLYETHYLENE 200 PSI MAY BE USED FOR 1 1/2" AND 2" SERVICES.
4. METER PITS MUST BE ADJUSTED TO GRADE USING RING RISERS OR PIT RISERS. METERS MUST BE ADJUSTED WITH METER RESETTERS (FORD V42).
5. ALL PROCEDURES MUST BE DISCUSSED AT A PRECONSTRUCTION MEETING PRIOR TO THE INITIATION OF CONSTRUCTION.

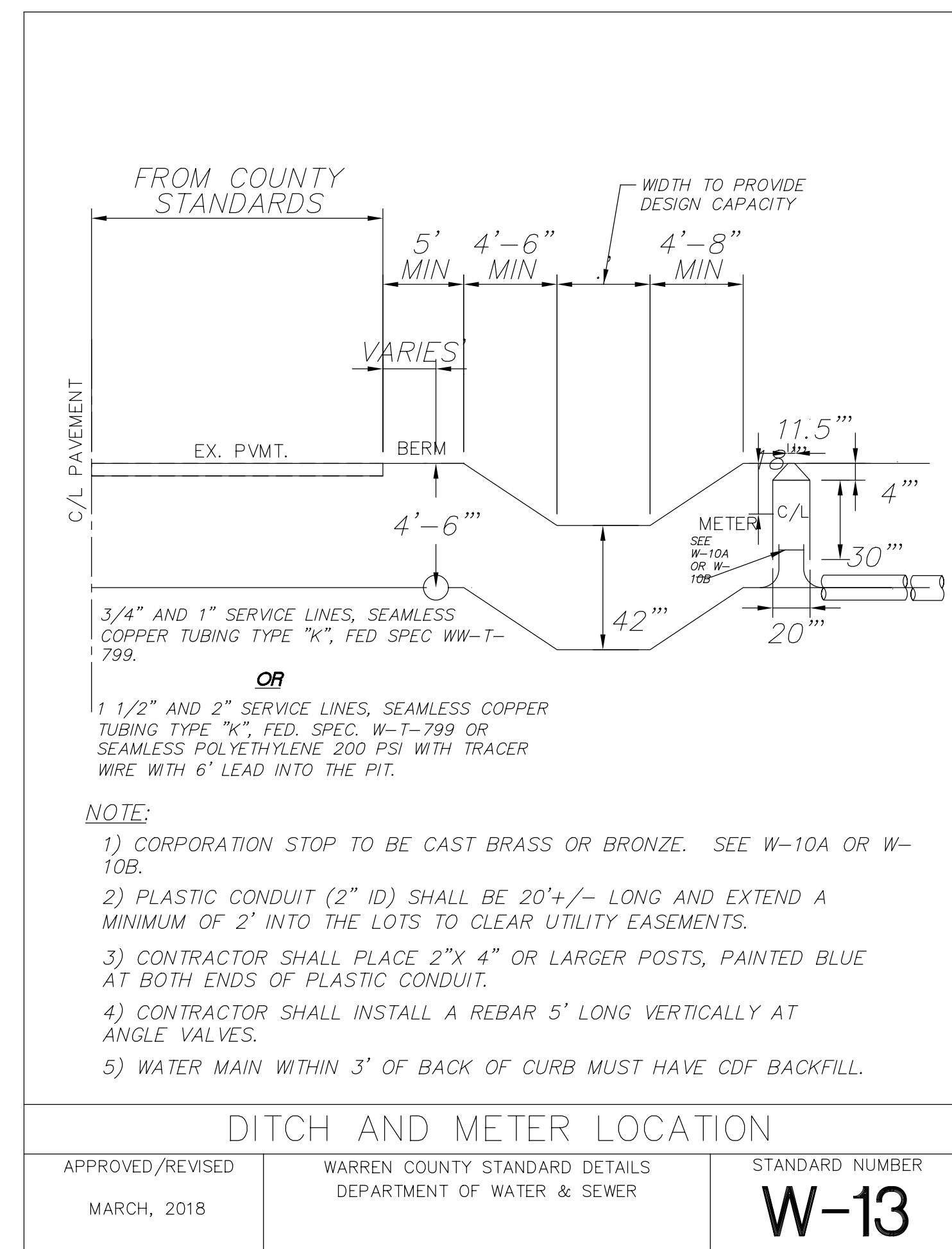
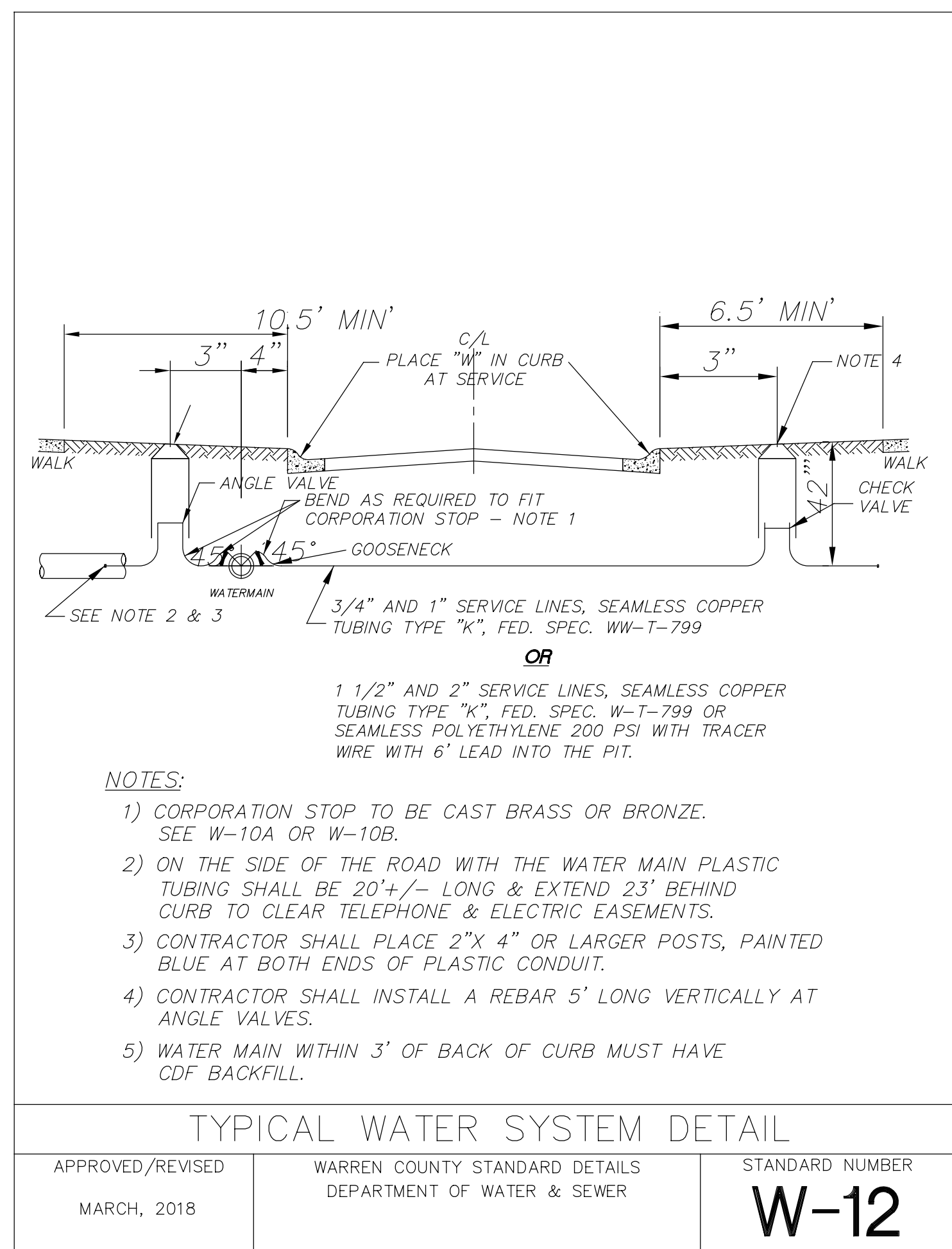
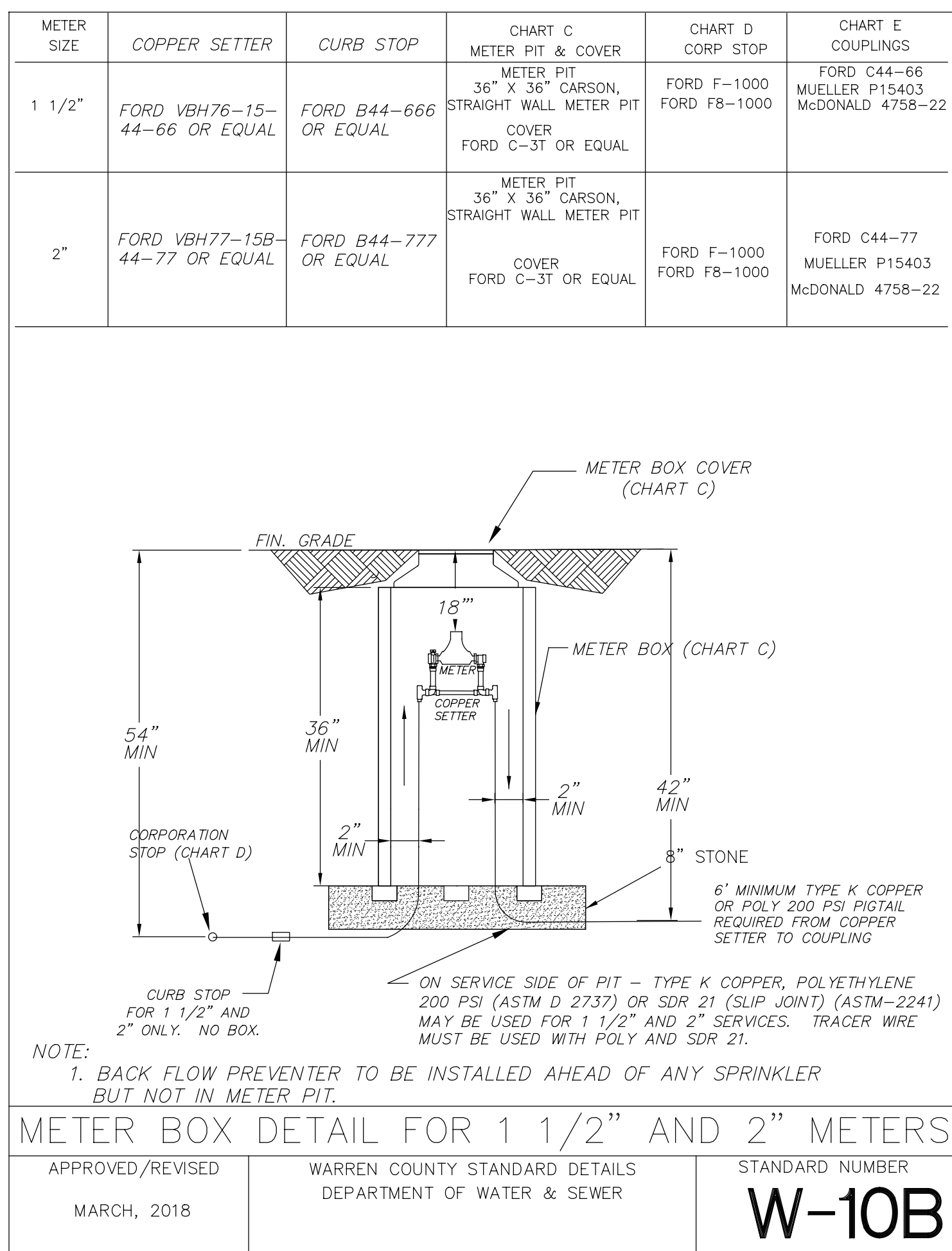
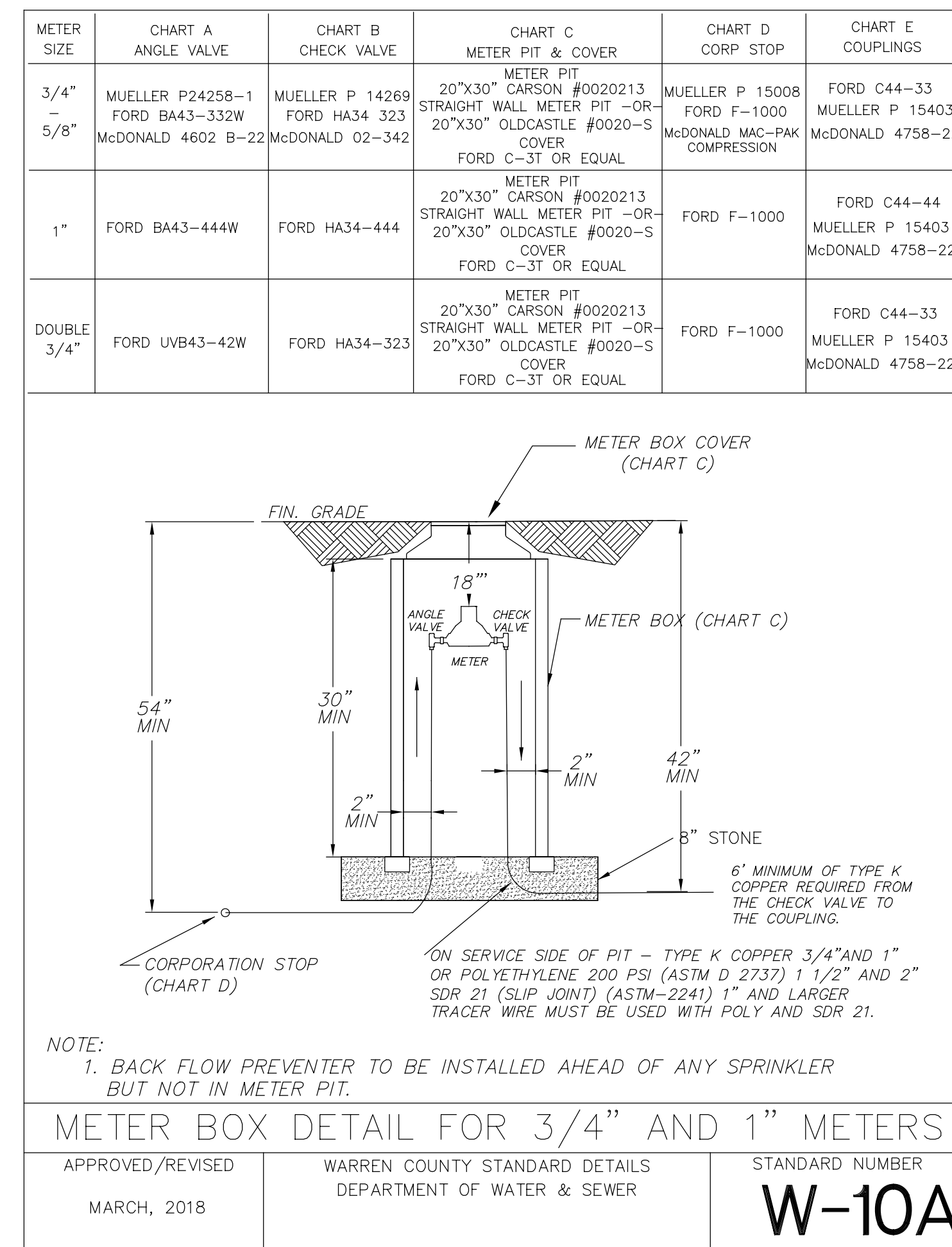
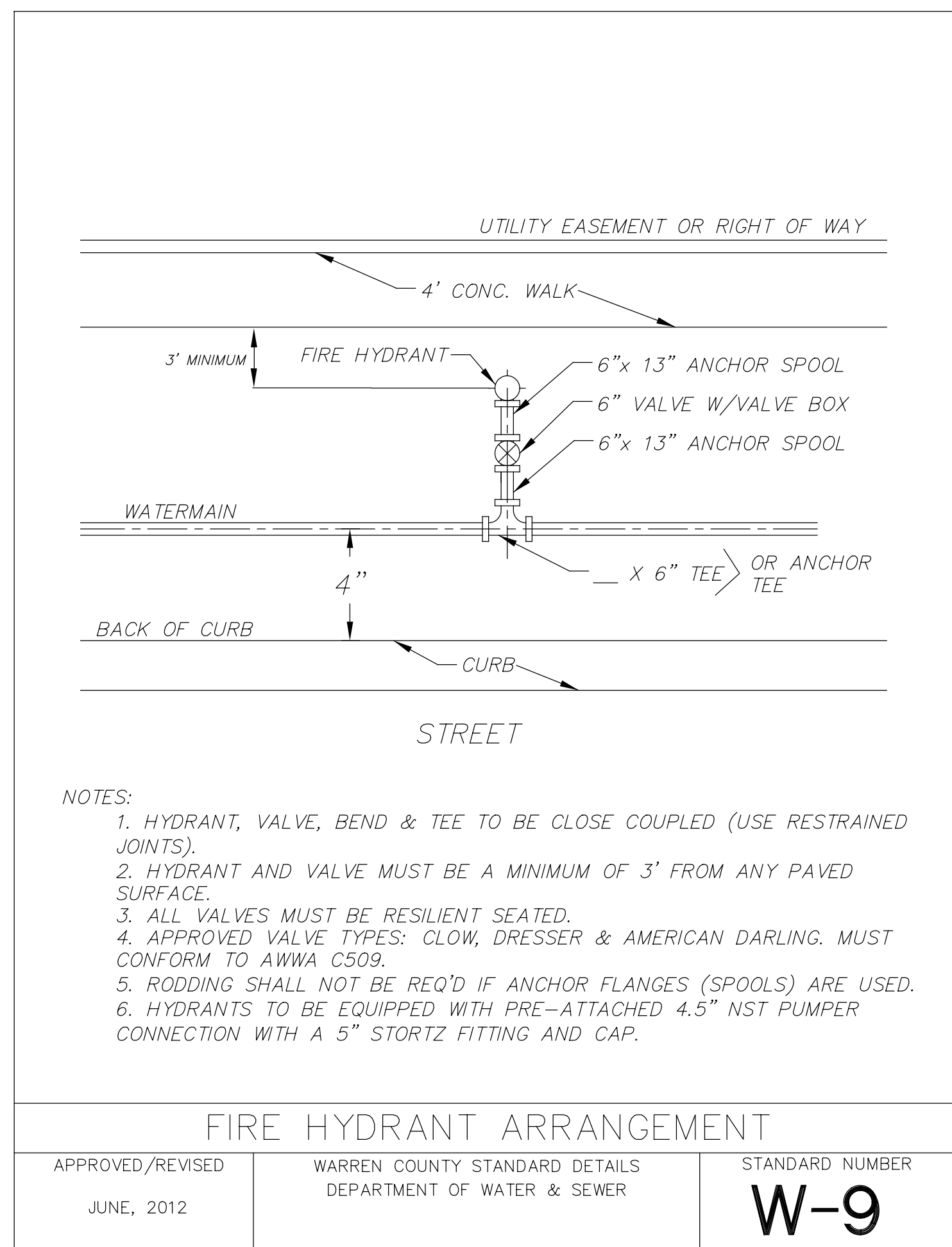
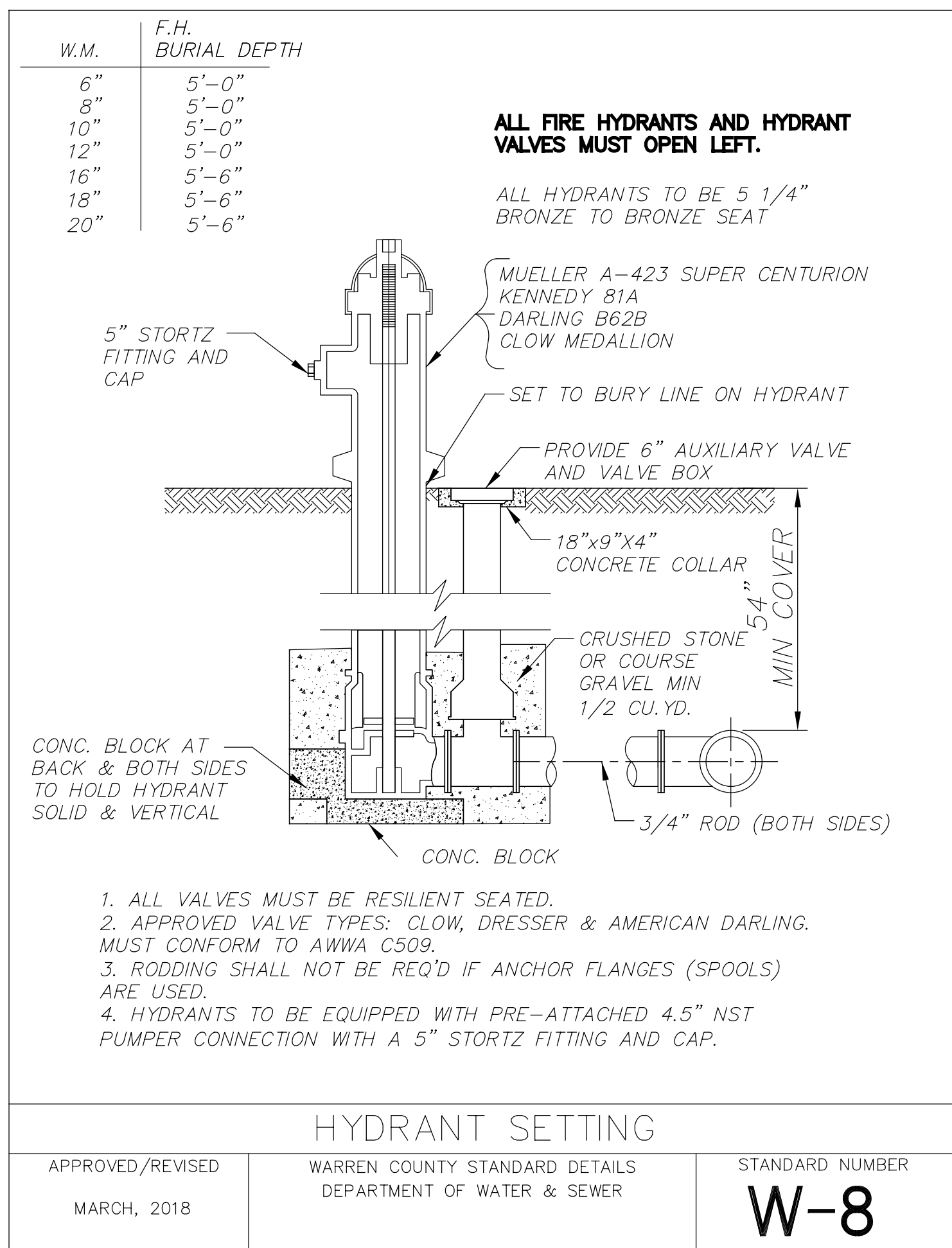


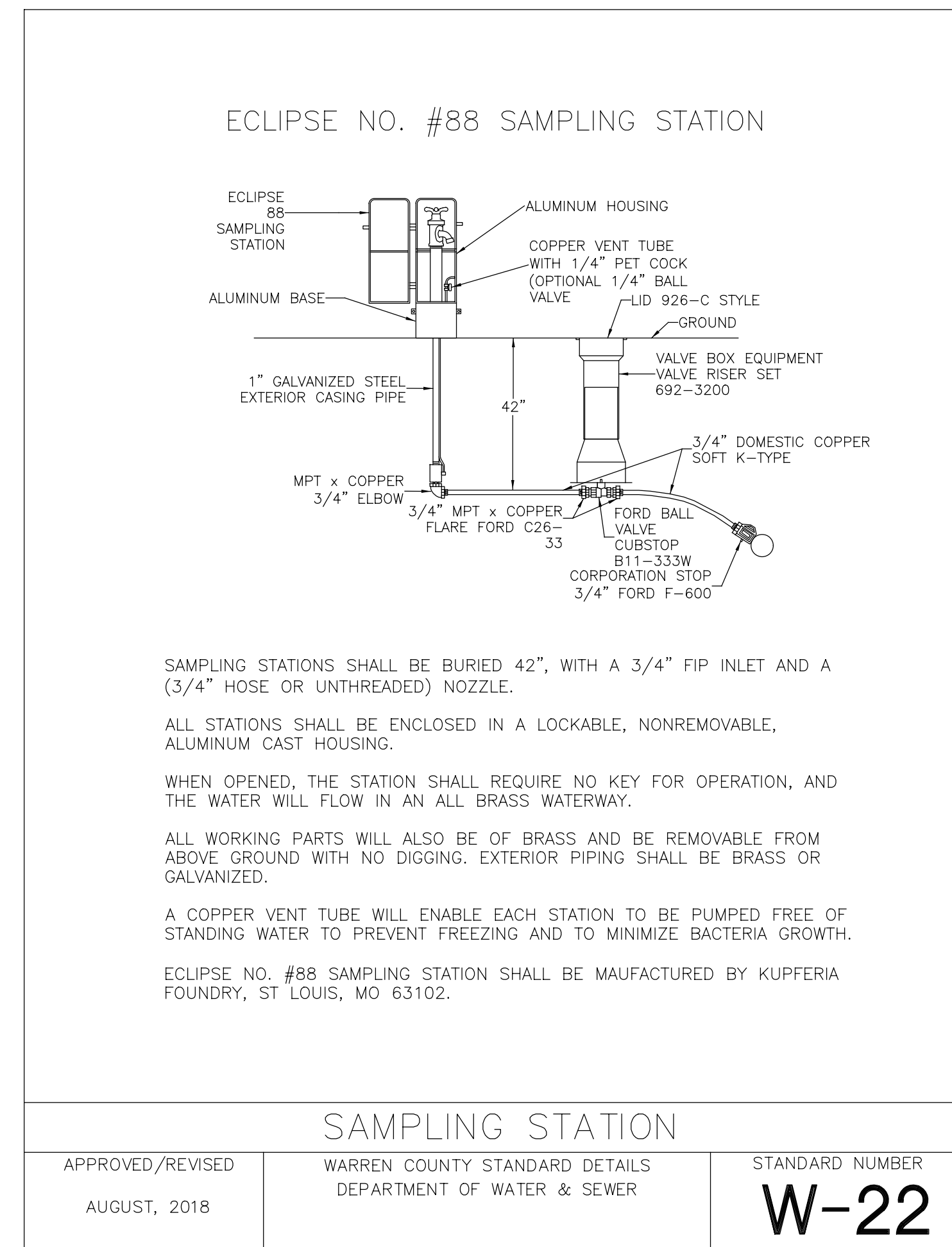
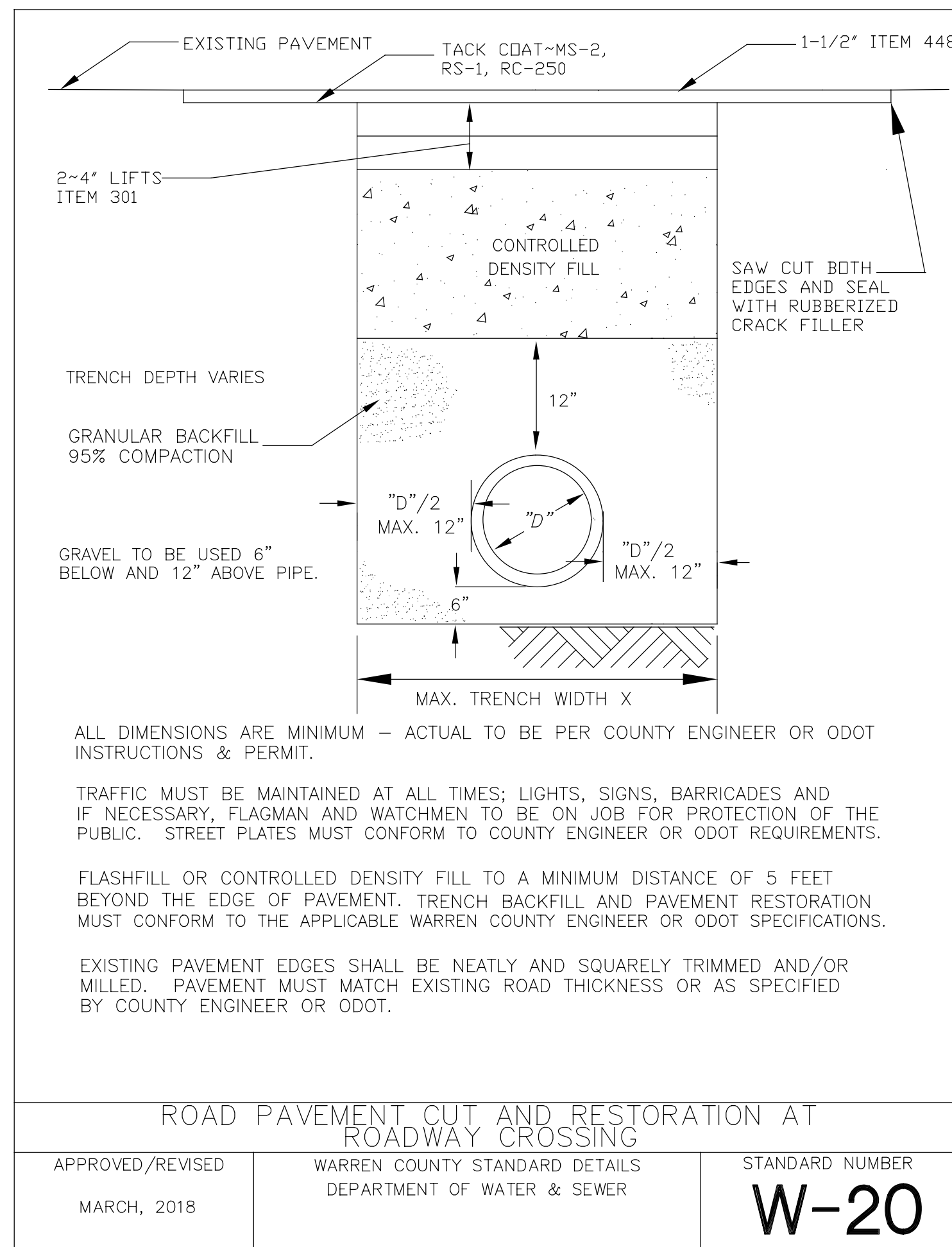
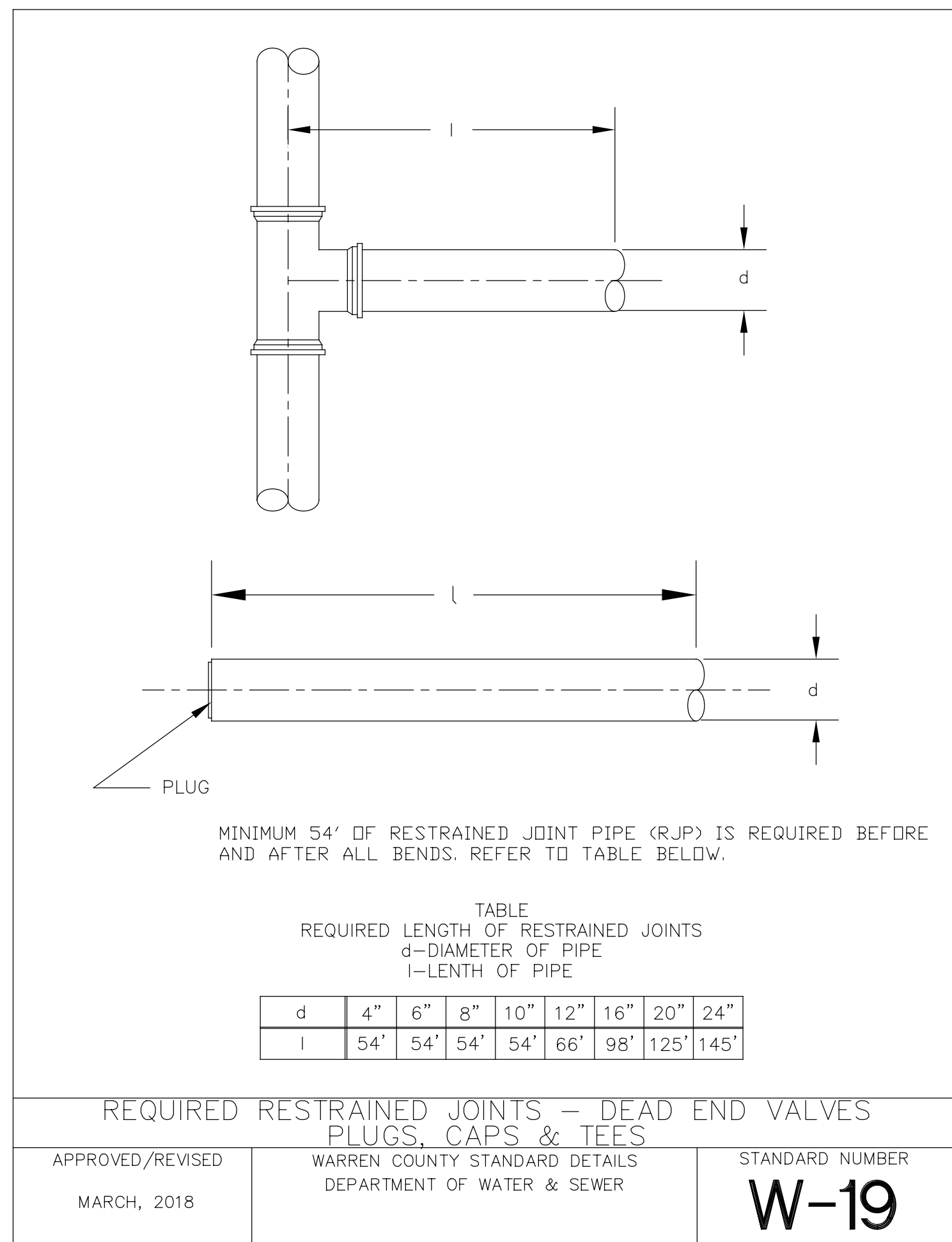
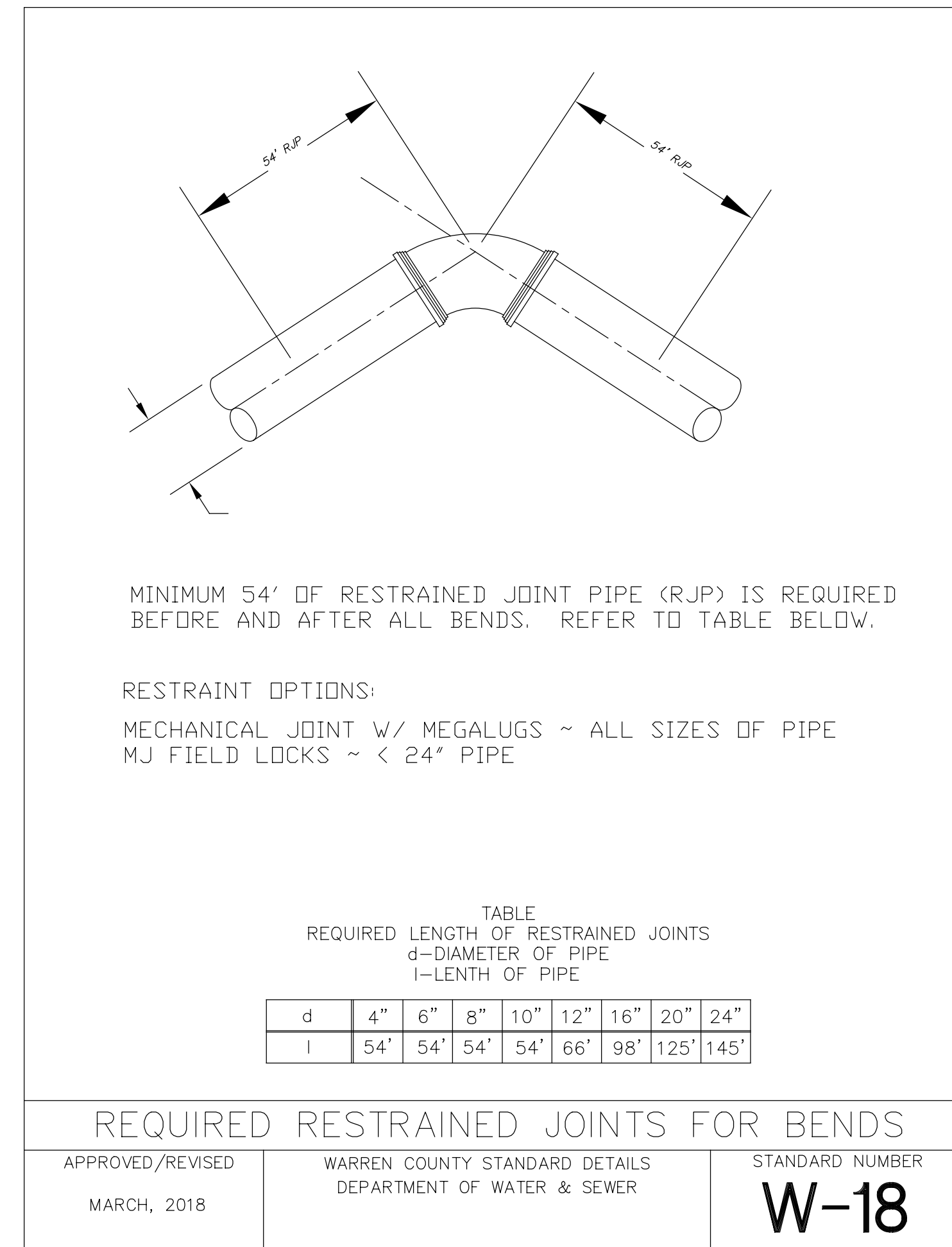
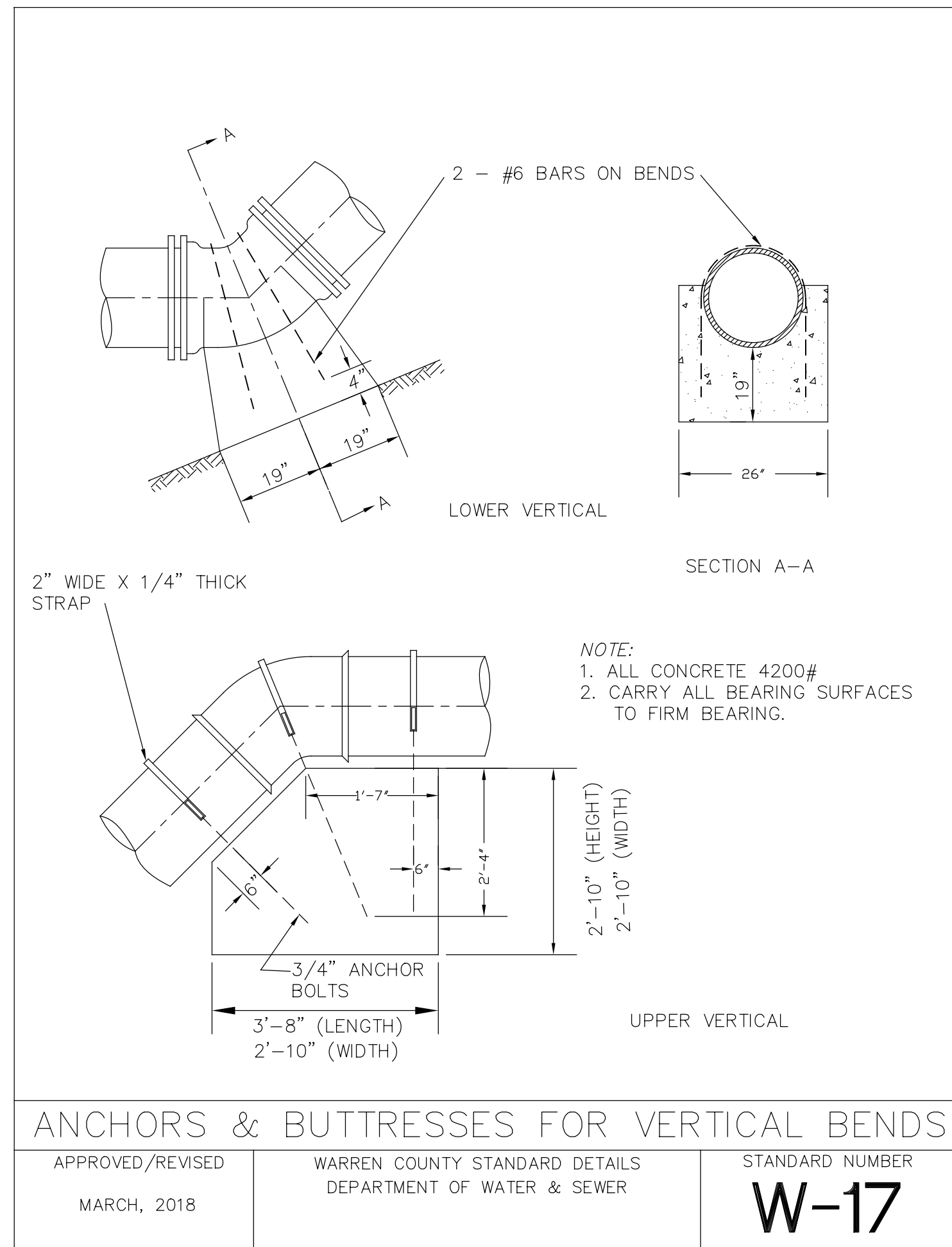
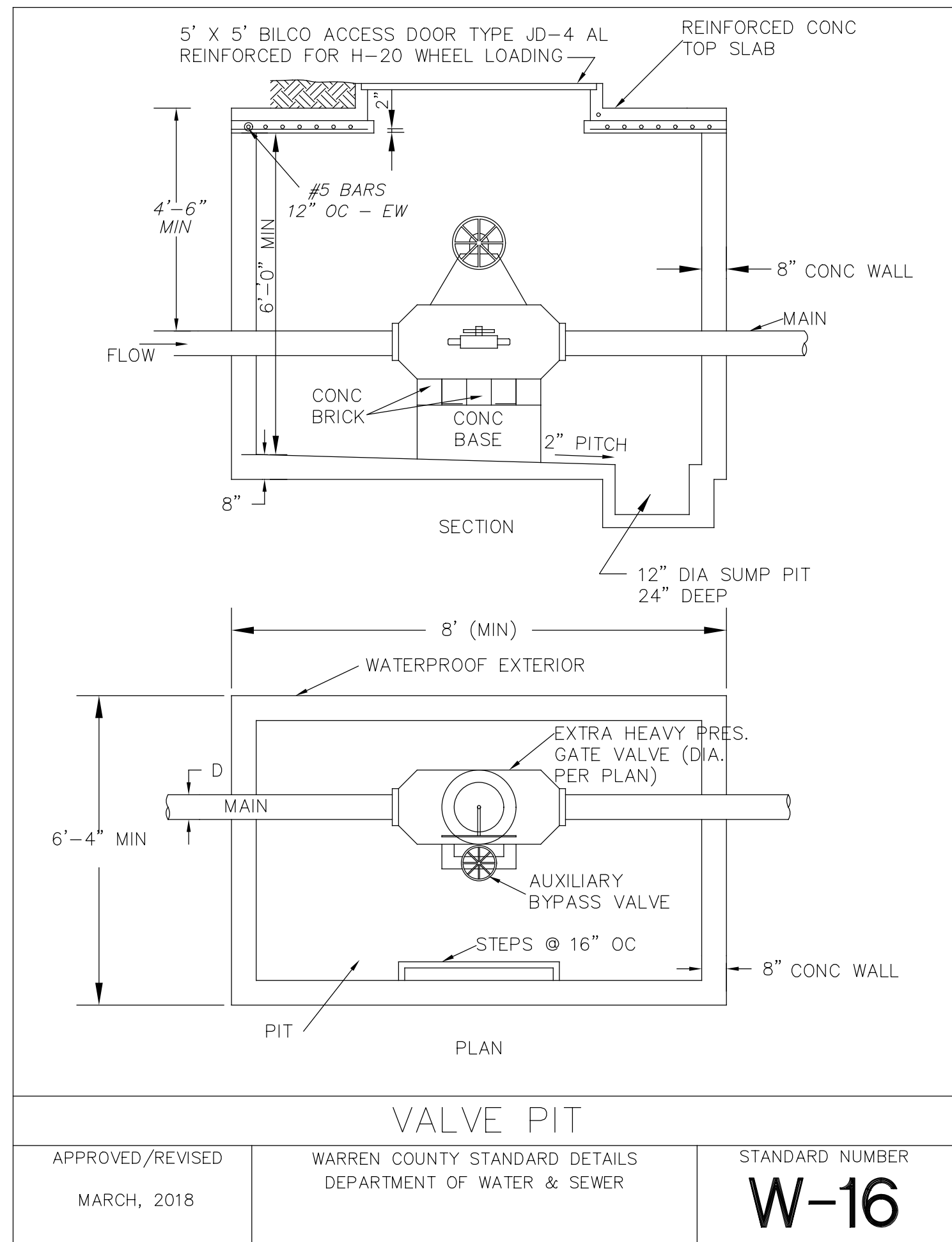
WATERMAIN TRENCH DETAIL		
APPROVED/REVISED	WARREN COUNTY STANDARD DETAILS DEPARTMENT OF WATER & SEWER	STANDARD NUMBER
JUNE, 2012		W-2

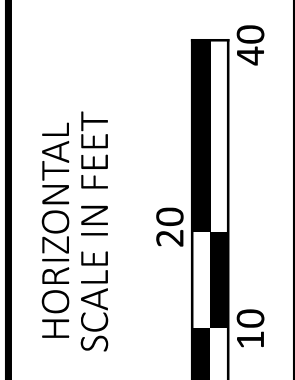
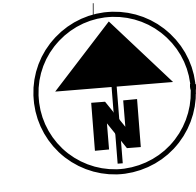
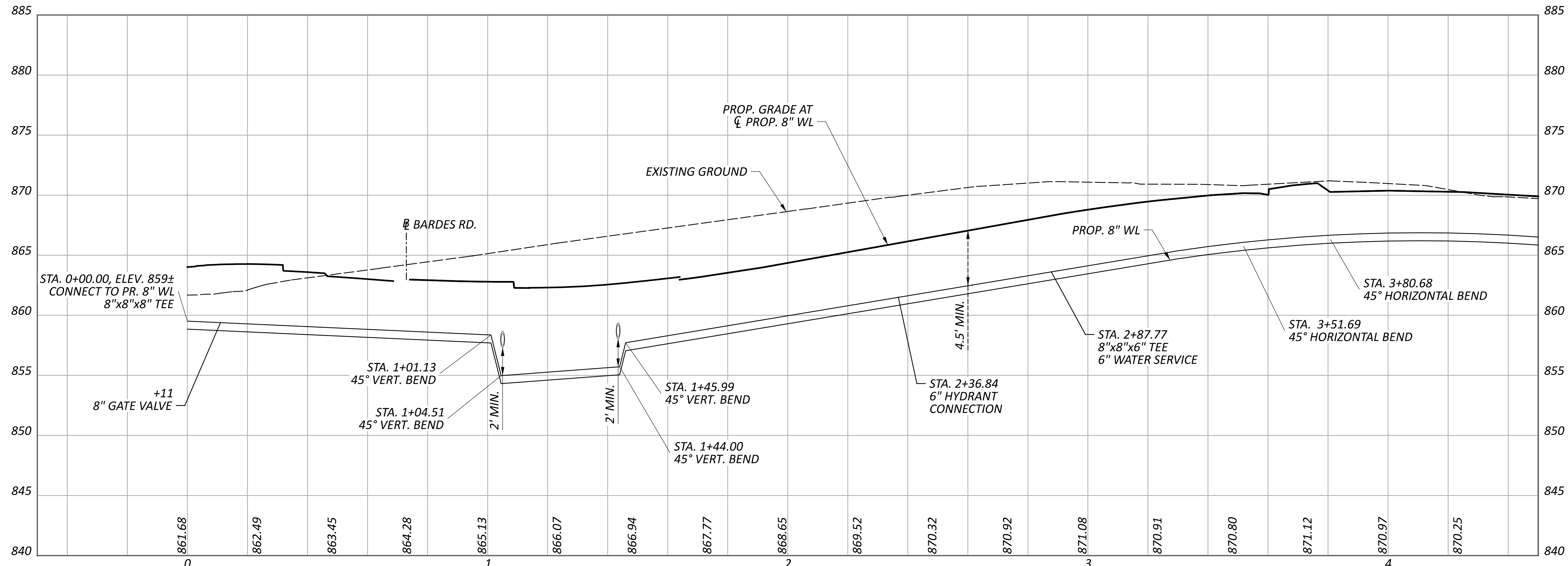
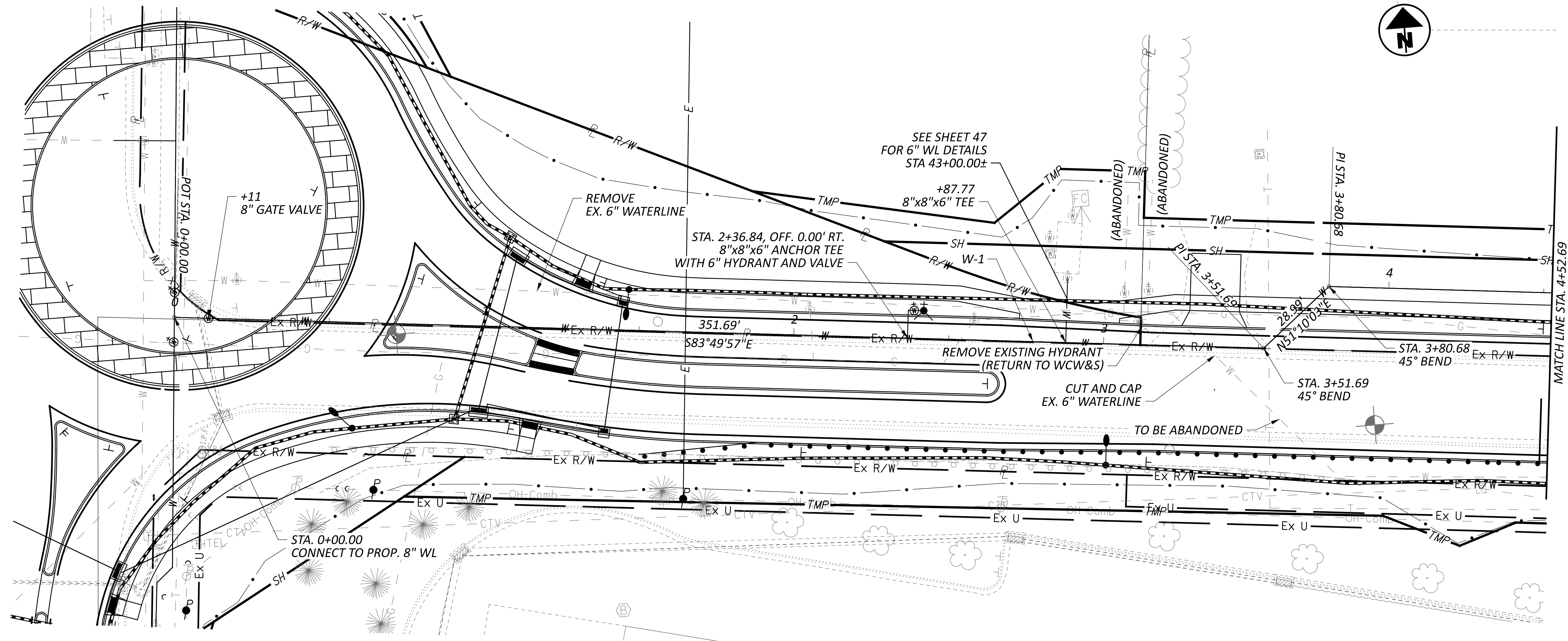


NOTE: BEARING AREA TO BE DETERMINED BASED ON SOIL TYPE & WORKING PRESSURE. THRUST BLOCKS TO BE USED AT ALL BENDS 22.5° OR GREATER. THRUST BLOCKS TO BE POURED AGAINST FIRM UNDISTURBED SOIL. USE CLASS "C" CONCRETE. 90° BENDS SHALL NOT BE PERMITTED.

THRUST BLOCK DETAILS		
APPROVED/REVISED	WARREN COUNTY STANDARD DETAILS DEPARTMENT OF WATER & SEWER	STANDARD NUMBER
MARCH, 2018		W-3

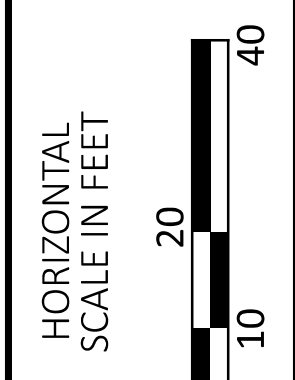
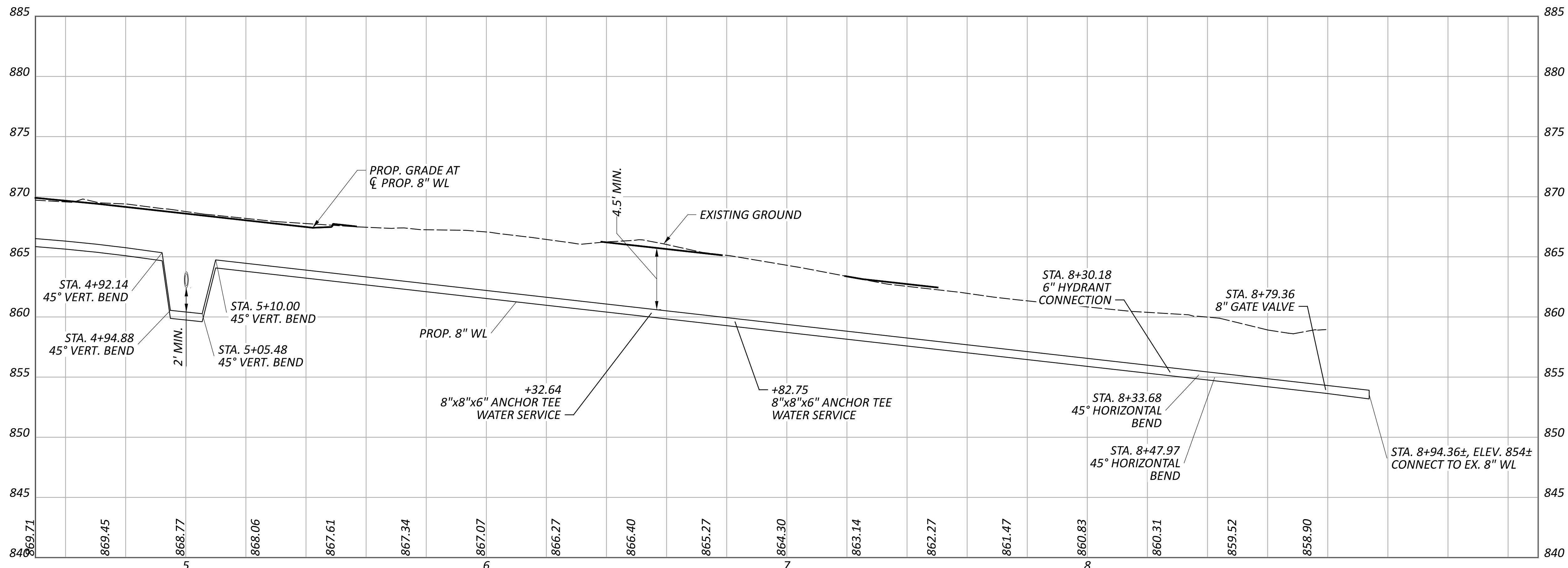
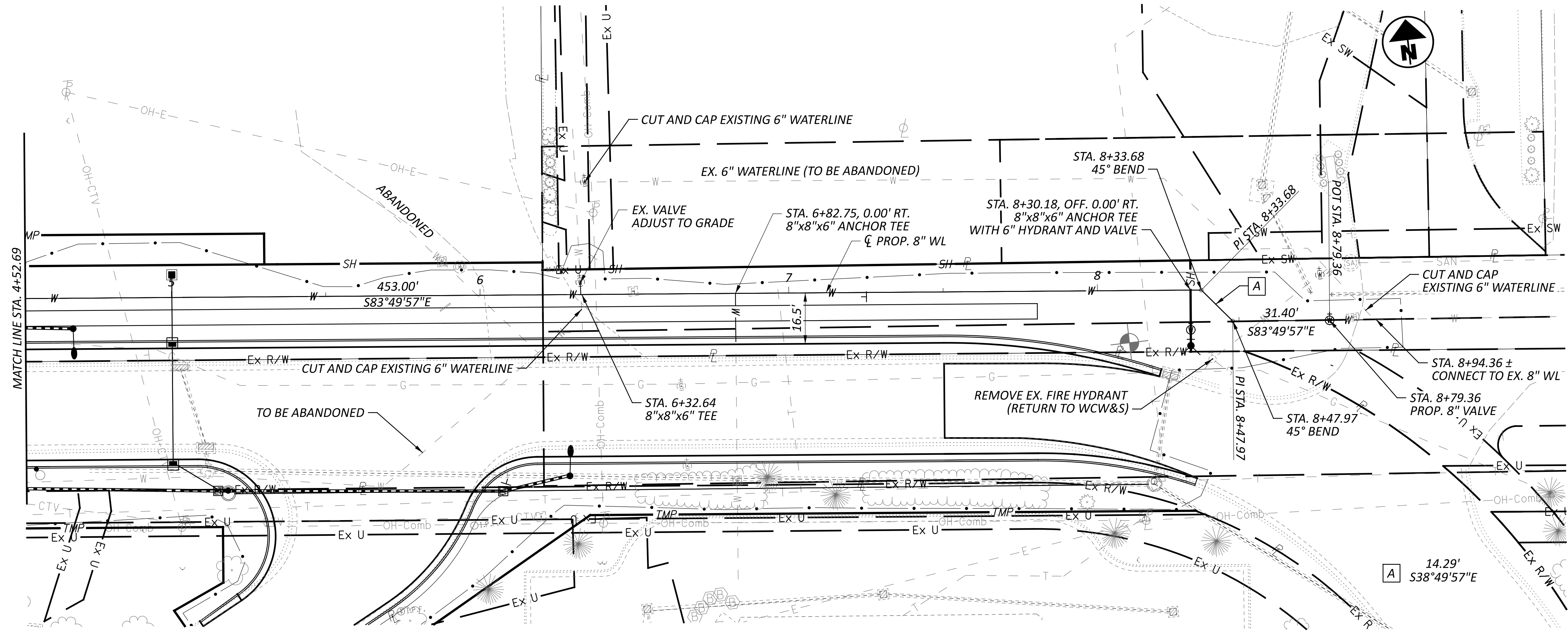






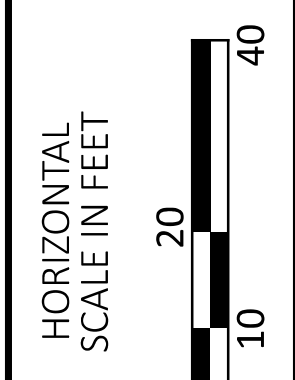
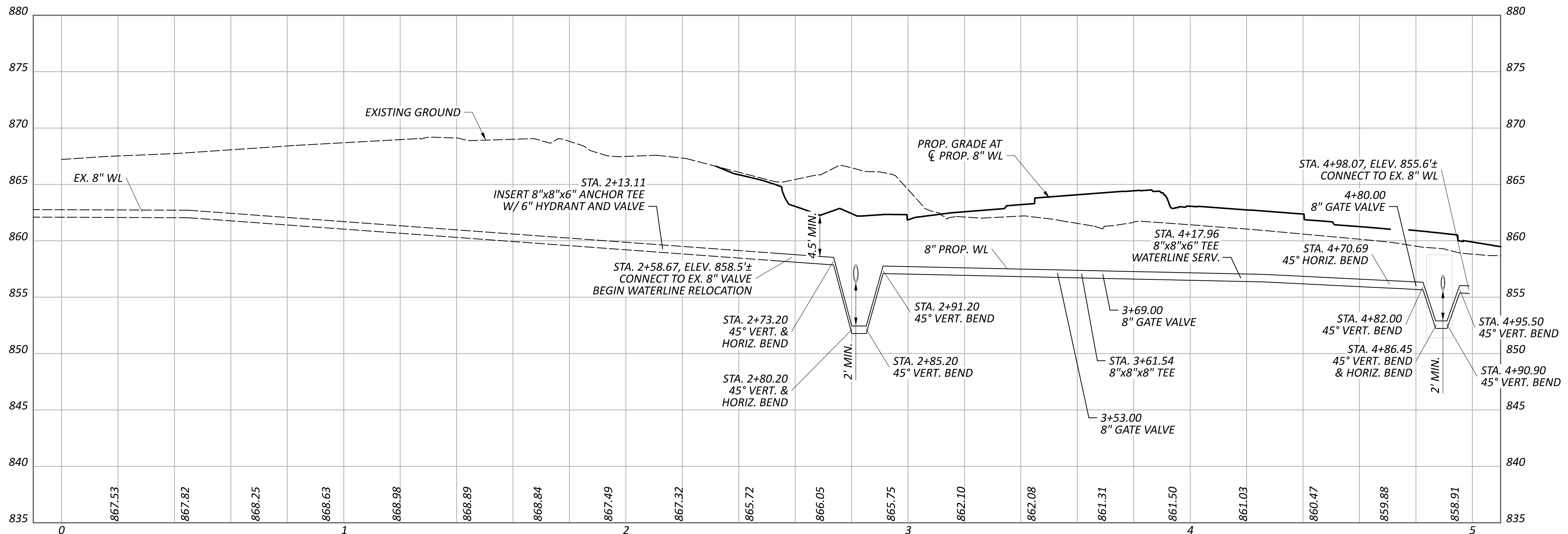
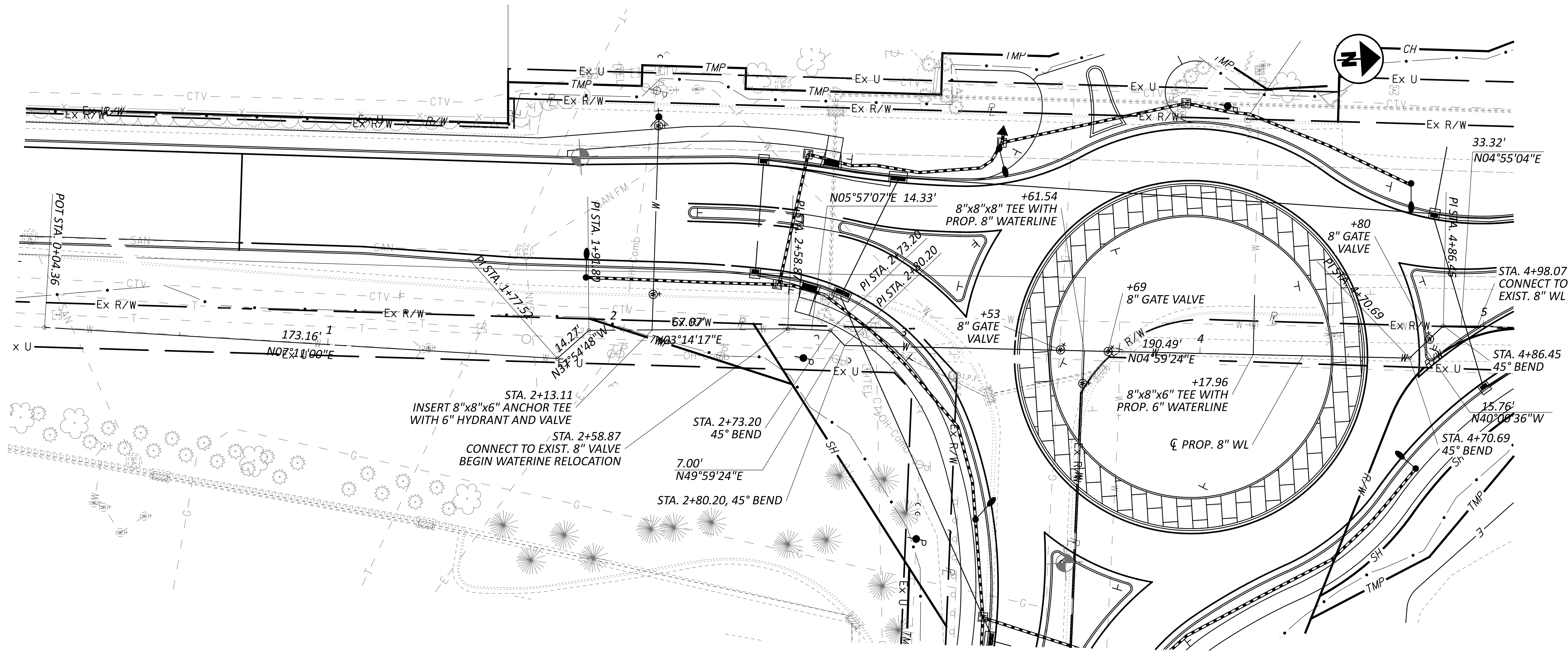
WATERLINE PLAN AND PROFILE
 BARDES RD - BEGIN WORK TO STA. 4+50.00

DESIGN AGENCY	
WSP	
WSP USA, Inc. 312 Elm Street, Suite 2500 Cincinnati, OH 45202	
DESIGNER	
DDS	
REVIEWER	
ABS 01/30/24	
PROJECT ID	
29076	
SHEET	TOTAL
61	76



WATERLINE PLAN AND PROFILE
 BARDES RD. - STA. 4+50.00 TO END WORK

DESIGN AGENCY	
WSP USA, Inc. 312 Elm Street, Suite 2500 Cincinnati, OH 45202	
DESIGNER	
DDS	
REVIEWER	
ABS 01/30/24	
PROJECT ID	
29076	
SHEET	TOTAL
62	76



WATERLINE PLAN AND PROFILE
 WILKENS BLVD. - BEGIN WORK TO END WORK

DESIGN AGENCY	
wsp	
WSP USA, Inc. 312 Elm Street, Suite 2500 Cincinnati, OH 45202	
DESIGNER	
DDS	
REVIEWER	
ABS 01/30/24	
PROJECT ID	
29076	
SHEET	TOTAL
63	76

WAR-C.R. 610-0.15

MODEL: Sheet PAPER: 34x22 (in.) DATE: 1/30/2024 TIME: 6:59:15 PM USER: USEK712839
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SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE																		
			FROM	TO		BARRIER REFLECTOR, TYPE 2 (BIDIRECTIONAL)		EDGE LINE, 4" (YELLOW)	EDGE LINE, 6" (WHITE)	CENTER LINE 4" (DOUBLE-SOLID)	CENTER LINE 4" (DASHED-SOLID)	CHANNELIZING LINE, 12"	STOP LINE, 24"	CROSSWALK LINE, 24"	TRANSVERSE/DIAGONAL LINE (YELLOW)	ISLAND MARKING	LANE ARROW	DOTTED LINE, 12"	YIELD LINE				
						EACH		FT	FT	FT	FT	FT	FT	FT	SF	EACH	FT	FT					
68	CL1	Wilkens Blvd.	14+00	14+50	LT					50													ALL QUANTITIES FOR EDGE LINE, LANE LINE, AND CENTER LINE ARE CALCULATED IN FEET, THEN CONVERTED TO MILES PRIOR TO BEING CARRIED TO GENERAL SUMMARY
68	CL2	Wilkens Blvd.	14+00	14+50	RT					50													
68	CL3	Wilkens Blvd.	14+50	19+00	LT					450													
68	CL4	Wilkens Blvd.	14+50	19+00	RT					450													
68	TL1	Wilkens Blvd.	14+00	14+50	MD								18										
68	TL2	Wilkens Blvd.	14+50	19+00	MD								96										
69	CL5	Wilkens Blvd.	19+00	19+26	LT					26													
69	CL6	Wilkens Blvd.	19+00	19+26	RT					26													
69	DL1	Wilkens Blvd.	3+44	3+87	MD												43						
69	DL2	Bardes Rd.	4+65	0+28	MD												45						
69	DL3	Wilkens Blvd.	1+49	2+00	MD												53						
69	TL3	Wilkens Blvd.	19+00	19+26	MD								27										
69	WL1	Wilkens Blvd.	3+12	3+44	MD						44												
69	WL2	Bardes Rd.	4+25	4+65	MD						54												
69	WL3	Wilkens Blvd.	1+09	1+49	MD						64												
69	WL4	Wilkens Blvd.	23+25	24+00	LT						75												
69	WL5	Wilkens Blvd.	23+25	24+00	RT						75												
69	XW1	Wilkens Blvd.	19+66	19+76	LT								30										
69	XW2	Wilkens Blvd.	19+66	19+76	RT								30										
69	XW3	Bardes Rd.	41+22	41+35	RT								36										
69	XW4	Bardes Rd.	41+27	41+37	LT								48										
69	YD1	Wilkens Blvd.	20+20	20+29	RT													18					
69	YD2	Bardes Rd.	40+75	40+86	LT													18					
69	YD3	Wilkens Blvd.	21+80	21+89	LT													17					
69	YL1	Wilkens Blvd.	19+26	19+65	LT			39															
69	YL2	Wilkens Blvd.	19+26	19+65	RT			39															
69	YL3	Wilkens Blvd.	19+77	20+24	LT			47															
69	YL4	Wilkens Blvd.	19+77	20+24	RT			47															
69	YL5	Bardes Rd.	40+78	41+23	RT			46															
69	YL6	Bardes Rd.	40+83	41+23	LT			41															
69	YL7	Bardes Rd.	41+40	41+50	RT			11															
69	YL8	Bardes Rd.	41+41	41+50	LT			9															
69	YL9	Wilkens Blvd.	0+00	4+84	MD			375															
69	YL10	Wilkens Blvd.	21+86	24+00	LT			219															
69	YL11	Wilkens Blvd.	21+82	24+00	RT			222															
69	LA1	Wilkens Blvd.	20+54		LT											1							
69	LA2	Wilkens Blvd.	20+36		L/R											1							
69	LA3	Bardes Rd.	40+68		LT											1							
69	LA4	Wilkens Blvd.	21+72		LT											1							
70	CL7	Home Depot	0+25	1+00	MD					75													
70	CL8	Bardes Rd.	47+50	48+40	LT					92													
70	CL9	Bardes Rd.	47+50	48+39	RT					91													
70	ISL	Bardes Rd.	48+40	48+45	RT										10								
70	LA5	Bardes Rd.	43+10	43+20	MD											1							
70	LA6	Bardes Rd.	43+30	43+40	MD											1							
70	LA7	Bardes Rd.	47+10	47+20	MD											1							
70	LA8	Bardes Rd.	47+30	47+40	MD											1							
70	SL1	Home Depot	0+25	0+25	LT								31										
70	SD1	Bardes Rd.	42+75	45+00	LT					225													
70	SD2	Bardes Rd.	42+75	45+00	RT					225													
70	SD3	Bardes Rd.	45+00	47+50	LT					250													
70	SD4	Bardes Rd.	45+00	47+50	RT					250													
70	YL12	Bardes Rd.	41+50	42+75	LT			125															
70	YL13	Bardes Rd.	41+50	42+75	RT			125															
70	BR1	Bardes Rd.	41+60	44+60	RT	5																	
TOTALS CARRIED TO SHEET 2						EACH		FT	FT	FT	FT	FT	FT	FT	SF	EACH	FT	FT					
						5		1345	312	1310	950	0	31	144	10	8	141	53					

ALL QUANTITIES FOR EDGE LINE, LANE LINE, AND CENTER LINE ARE CALCULATED IN FEET, THEN CONVERTED TO MILES PRIOR TO BEING CARRIED TO GENERAL SUMMARY

PAVEMENT MARKING SUB-SUMMARY 1

DESIGN AGENCY

 WSP USA, Inc.
 312 Elm Street,
 Suite 2500
 Cincinnati, OH 45202

DESIGNER	JRW
REVIEWER	EAT
PROJECT ID	01/30/24
	29076
SHEET TOTAL	64 76

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	626	644	644	644	644	644	644	644	644	644	644	644								
			BARRIER REFLECTOR, TYPE 2 (BIDIRECTIONAL)	EDGE LINE, 4" (YELLOW)		EDGE LINE, 6" (WHITE)	CENTER LINE 4" (DOUBLE-SOLID)	CENTER LINE 4" (DASHED-SOLID)	CHANNELIZING LINE, 12"	STOP LINE, 24"	CROSSWALK LINE, 24"	TRANSVERSE/DIAGONAL LINE (YELLOW)	ISLAND MARKING	LANE ARROW	DOTTED LINE, 12"	YIELD LINE	EACH	FT	FT	FT	FT	SF	EACH	FT	FT
			FROM	TO		EACH	FT	FT	FT	FT	FT	FT	FT	FT	SF	EACH	FT	FT							
71	CL7	Wilkens Blvd.	26+44	27+90	LT				146																
71	WL6	Wilkens Blvd.	24+00	28+00	LT			400																	
71	WL7	Wilkens Blvd.	24+00	24+70	RT			70																	
71	YL14	Wilkens Blvd.	24+00	26+44	LT		244																		
71	YL15	Wilkens Blvd.	24+00	26+44	RT		244																		
71	CH1	Wilkens Blvd.	25+50	27+90	RT					240															
71	CH2	Wilkens Blvd.	27+00	27+90	RT					90															
71	LA9	Wilkens Blvd.	27+14		MD												1								
71	LA10	Wilkens Blvd.	27+14		RT												1								
71	LA11	Wilkens Blvd.	27+80		MD												1								
71	LA12	Wilkens Blvd.	27+80		RT												1								
SUB-TOTALS (THIS SHEET)						0	488	470	146	0	330	0	0	0	0	4	0	0							
SUB-TOTALS (FROM SHEET 1)						5	1345	312	1310	950	0	31	144	141	10	8	141	53							
TOTALS						5	1833	782	1456	950	330	31	144	141	10	12	141	53							
TOTALS CARRIED TO GENERAL SUMMARY						EACH	MI	MI	MI	FT	FT	FT	FT	SF	EACH	FT	FT								
TOTALS CARRIED TO GENERAL SUMMARY						5	0.35	0.15	0.46	330	31	144	141	10	12	141	53								

ALL QUANTITIES FOR EDGE LINE, LANE LINE, AND CENTER LINE ARE CALCULATED IN FEET, THEN CONVERTED TO MILES PRIOR TO BEING CARRIED TO GENERAL SUMMARY

PAVEMENT MARKING SUB-SUMMARY 2

DESIGN AGENCY

 WSP USA, Inc.
 312 Elm Street,
 Suite 2500
 Cincinnati, OH 45202

DESIGNER
 JRW

REVIEWER
 EAT 01/30/24

PROJECT ID
 29076

SHEET TOTAL
 65 | 76

SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE IN INCHES	630		SIGN POST REFLECTOR	630	SIGN, FLAT SHEET	630															
							GROUND MOUNTED SUPPORT, NO. 3 POST	FT																		EACH	SF
68	S-1	Wilkins Blvd.	17+00	RT	W2-6-30 W16-17P-24	30 x 30 24 x 12	14.0				6.25 2																
69	S-1a	Wilkins Blvd.	20+66	LT	R6-1R-36	36 x 12	8.0				3																
69	S-1b	Wilkins Blvd.	20+27	LT	R1-2-36	36 x 36 x 36	14.0		1		4																
69	S-2	Wilkins Blvd.	19+29	LT	R4-7-24	24 x 30	13.0				5																
69	S-3	Wilkins Blvd.	19+62	RT	W11-2-30 W16-7PL-24	30 x 30 24 x 12	14.0				6.25 2																
69	S-4	Wilkins Blvd.	19+78	LT	W11-2-30 W16-7PL-24	30 x 30 24 x 12	14.0				6.25 2																
69	S-5	Wilkins Blvd.	20+15	RT	R1-2-36	36 x 36 x 36	14.0		1		4																
69	S-6	Wilkins Blvd.	20+22	RT	R1-2-36	36 x 36 x 36	14.0		1		4																
	A	Wilkins Blvd.	20+22	LT	D1-1d-78	78 X 24	12.5	12.5			13																
69	S-7	Wilkins Blvd.	20+64	LT	R6-1R-36	36 x 12	8.0				3																
69	B	Bardes Rd.	40+80	RT	D1-1d-72	72 X 24	12.5	12.5			12																
69	S-8	Bardes Rd.	41+20	RT	W11-2-30 W16-7PL-24	30 x 30 24 x 12	14.0				6.25 2																
69	S-9	Bardes Rd.	41+42	LT	W11-2-30 W16-7PL-24	30 x 30 24 x 12	14.0				6.25 2																
69	S-10	Bardes Rd.	40+82	RT	R1-2-36	36 x 36 x 36	14.0		1		4																
69	S-11	Bardes Rd.	40+92	RT	R1-2-36	36 x 36 x 36	14.0		1		4																
69	S-12	Bardes Rd.	40+39	LT	R6-1R-36	36 x 12	8.0				3																
69	S-13	Wilkins Blvd.	21+41	LT	R6-1R-36	36 x 12	8.0				3																
69	S-14	Wilkins Blvd.	21+82	LT	R1-2-36	36 x 36 x 36	14.0		1		4																
69	S-15	Wilkins Blvd.	21+90	LT	R1-2-36	36 x 36 x 36	14.0		1		4																
69	A	Wilkins Blvd.	21+83	RT	D1-1d-78	78 X 24	12.5	12.5			13																
69	S-16	Wilkins Blvd.	22+87	RT	R2-1-24	24 x 30	13.0				5																
70	S-17	Bardes Rd.	41+12	RT	R2-1-24	24 x 30	13.0				5																
70	S-18	Bardes Rd.	42+71	MD	R4-7-24	24 x 30	13.0				5																
70	S-19	Bardes Rd.	43+23	RT	R3-9b-24	24 x 36	13.5				6																
70	S-20	Bardes Rd.	44+50	LT	W2-6-30 W16-17P-24	30 x 30 24 x 12	14.0				6.25 2																
70	S-21	Bardes Rd.	46+08	RT	R1-1-30	30 x 30	13.0		1		6.25																
70	S-22	Bardes Rd.	47+25	LT	R3-9b-24	24 x 36	13.5				6																
71	S-23	Wilkins Blvd.	25+50	LT	W2-6-30 W16-17P-24	30 x 30 24 x 12	14.0				6.25 2																
71	S-24	Wilkins Blvd.	25+50	RT	R3-8b-48	48 x 30	14.0	14.0			10																
TOTALS CARRIED TO GENERAL SUMMARY							423			8		184															

SIGNING SUB-SUMMARY

DESIGN AGENCY

 WSP USA, Inc.
 312 Elm Street,
 Suite 2500
 Cincinnati, OH 45202

DESIGNER
 JRW

REVIEWER
 EAT 01/30/24

PROJECT ID
 29076

SHEET TOTAL
 66 76

SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE IN INCHES	630		630														
							REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	EACH													
68	R-1	Wilens Blvd.	18+20	RT			1	2															
69	R-2	Bardes Rd.	40+29	RT			1	1															
69	R-3	Bardes Rd.	41+44	RT			1	1															
69	R-4	Wilens Blvd.	21+58	LT			1	1															
69	R-5	Wilens Blvd.	21+68	LT			1	1															
69	R-6	Wilens Blvd.	22+90	MD			1	1															
69	R-7	Wilens Blvd.	22+65	LT			1	1															
70	R-8	Bardes Rd.	44+92	LT			1	1															
70	R-9	Bardes Rd.	46+08	RT			1	1															
TOTALS CARRIED TO GENERAL SUMMARY							9		10														

DESIGN AGENCY
wsp
WSP USA, Inc.
312 Elm Street,
Suite 2500
Cincinnati, OH 45202

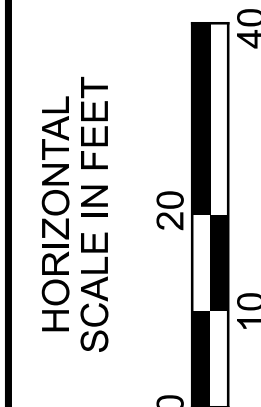
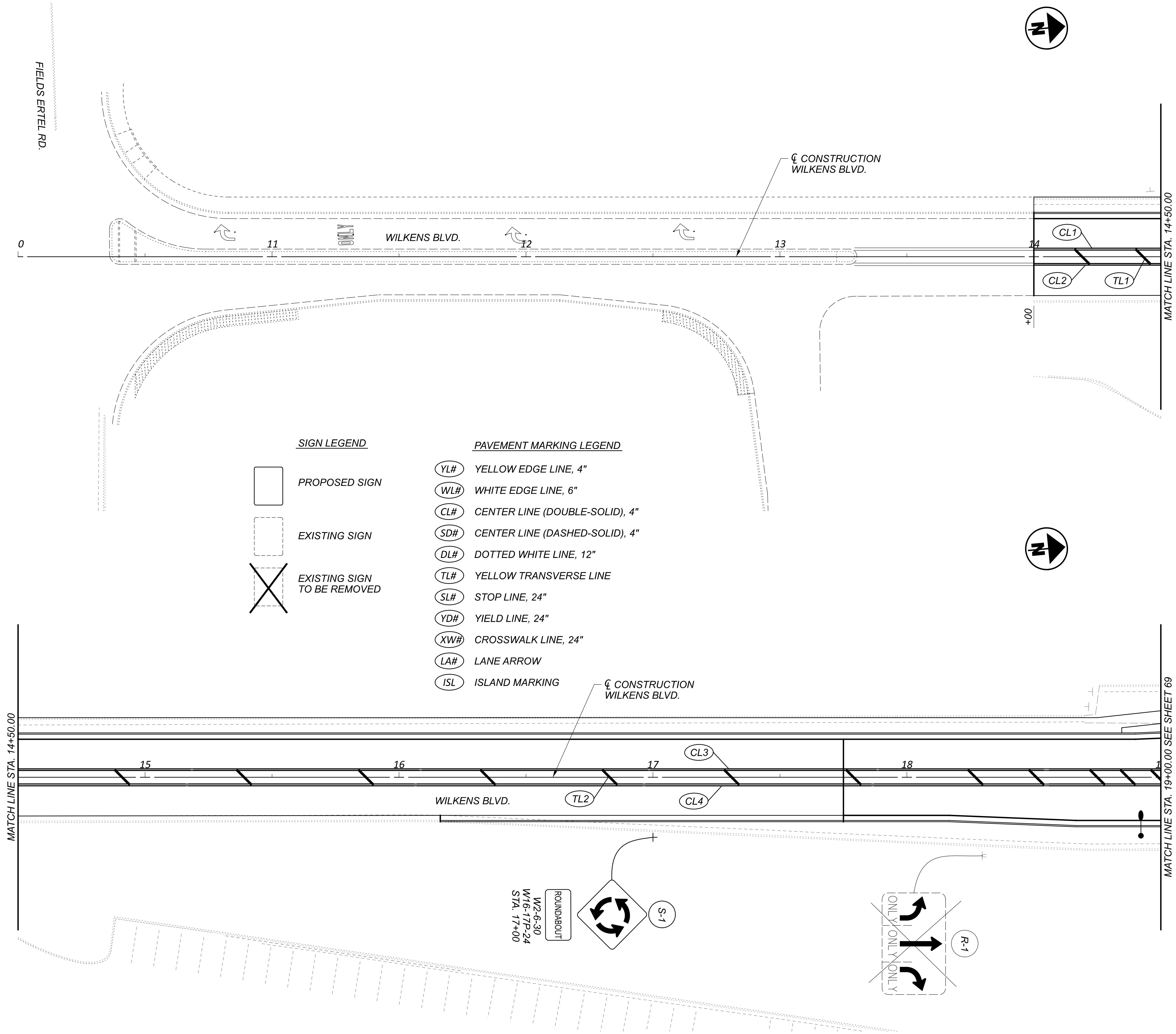
DESIGNER
JRW

REVIEWER
EAT 01/30/24

PROJECT ID
29076

SHEET TOTAL
67 76

SIGNING SUB-SUMMARY



SIGNING AND PAVEMENT MARKING PLAN
 STA. 10+00 TO STA. 19+00 - WILKENS BLVD.

DESIGN AGENCY



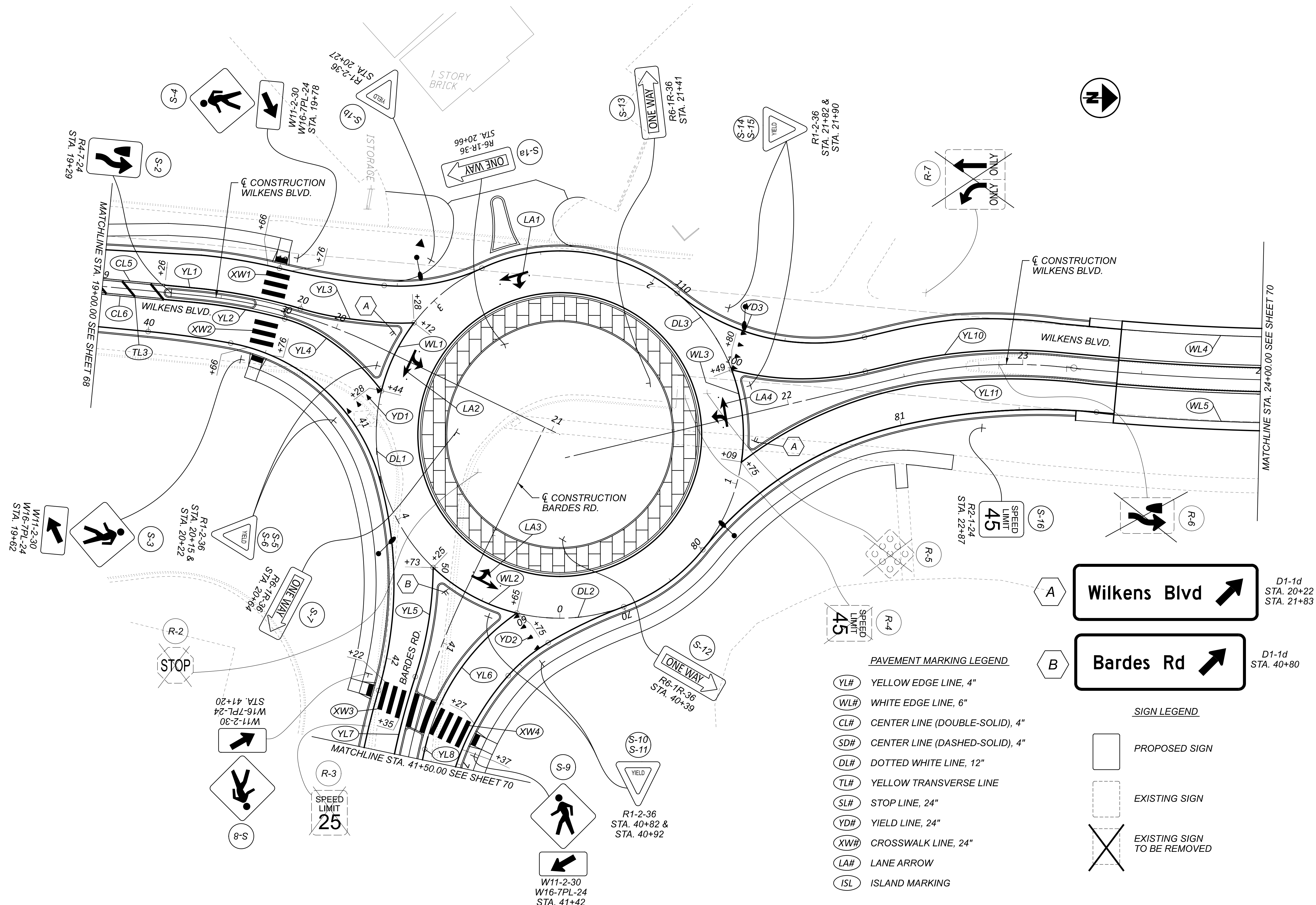
WSP USA, Inc.
 312 Elm Street,
 Suite 2500
 Cincinnati, OH 45202

DESIGNER
 NWA & JRW

REVIEWER
 EAT 01/30/24

PROJECT ID
 29076

SHEET	TOTAL
68	76

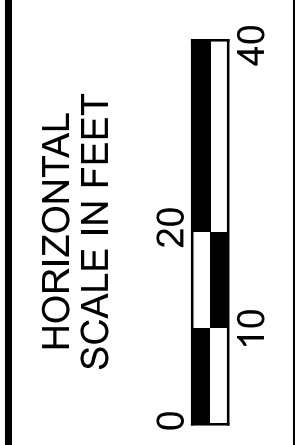
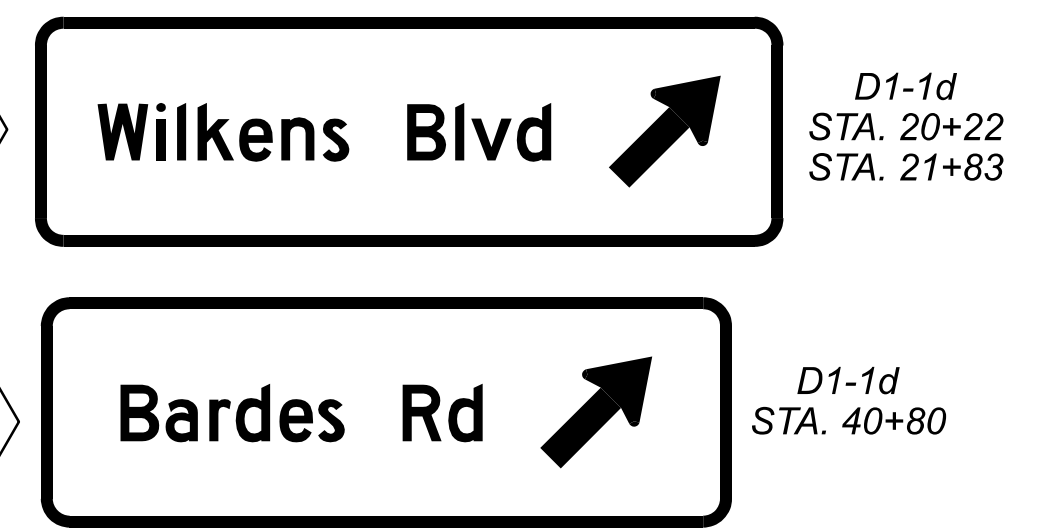


PAVEMENT MARKING LEGEND

(YL#)	YELLOW EDGE LINE, 4"
(WL#)	WHITE EDGE LINE, 6"
(CL#)	CENTER LINE (DOUBLE-SOLID), 4"
(SD#)	CENTER LINE (DASHED-SOLID), 4"
(DL#)	DOTTED WHITE LINE, 12"
(TL#)	YELLOW TRANSVERSE LINE
(SL#)	STOP LINE, 24"
(YD#)	YIELD LINE, 24"
(XW#)	CROSSWALK LINE, 24"
(LA#)	LANE ARROW
(ISL)	ISLAND MARKING

SIGN LEGEND

	PROPOSED SIGN
	EXISTING SIGN
	EXISTING SIGN TO BE REMOVED



SIGNING AND PAVEMENT MARKING PLAN
 STA. 19+00 TO STA. 24+00 - WILKENS BLVD.

DESIGN AGENCY

WSP

WSP USA, Inc.
312 Elm Street,
Suite 2500
Cincinnati, OH 45202

DESIGNER

NWA & JRW

REVIEWER

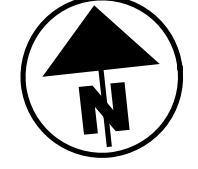
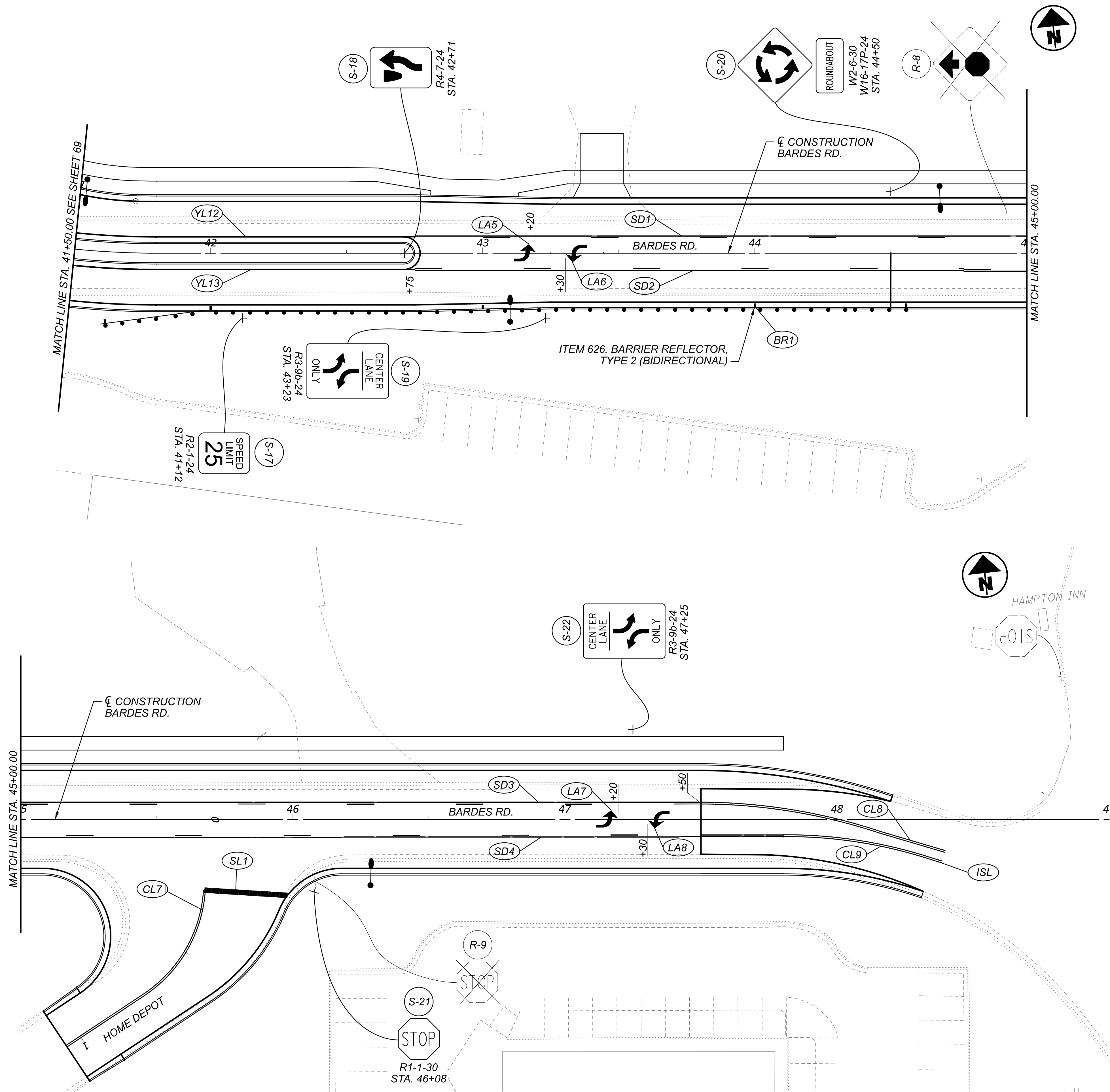
EAT 01/30/24

PROJECT ID

29076

SHEET TOTAL

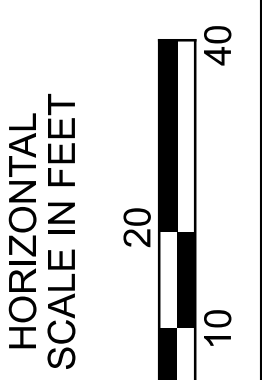
69 76



- PAVEMENT MARKING LEGEND**
- YL# YELLOW EDGE LINE, 4"
 - WL# WHITE EDGE LINE, 6"
 - CL# CENTER LINE (DOUBLE-SOLID), 4"
 - SD# CENTER LINE (DASHED-SOLID), 4"
 - DL# DOTTED WHITE LINE, 12"
 - TL# YELLOW TRANSVERSE LINE
 - SL# STOP LINE, 24"
 - YD# YIELD LINE, 24"
 - XW# CROSSWALK LINE, 24"
 - LA# LANE ARROW
 - ISL ISLAND MARKING

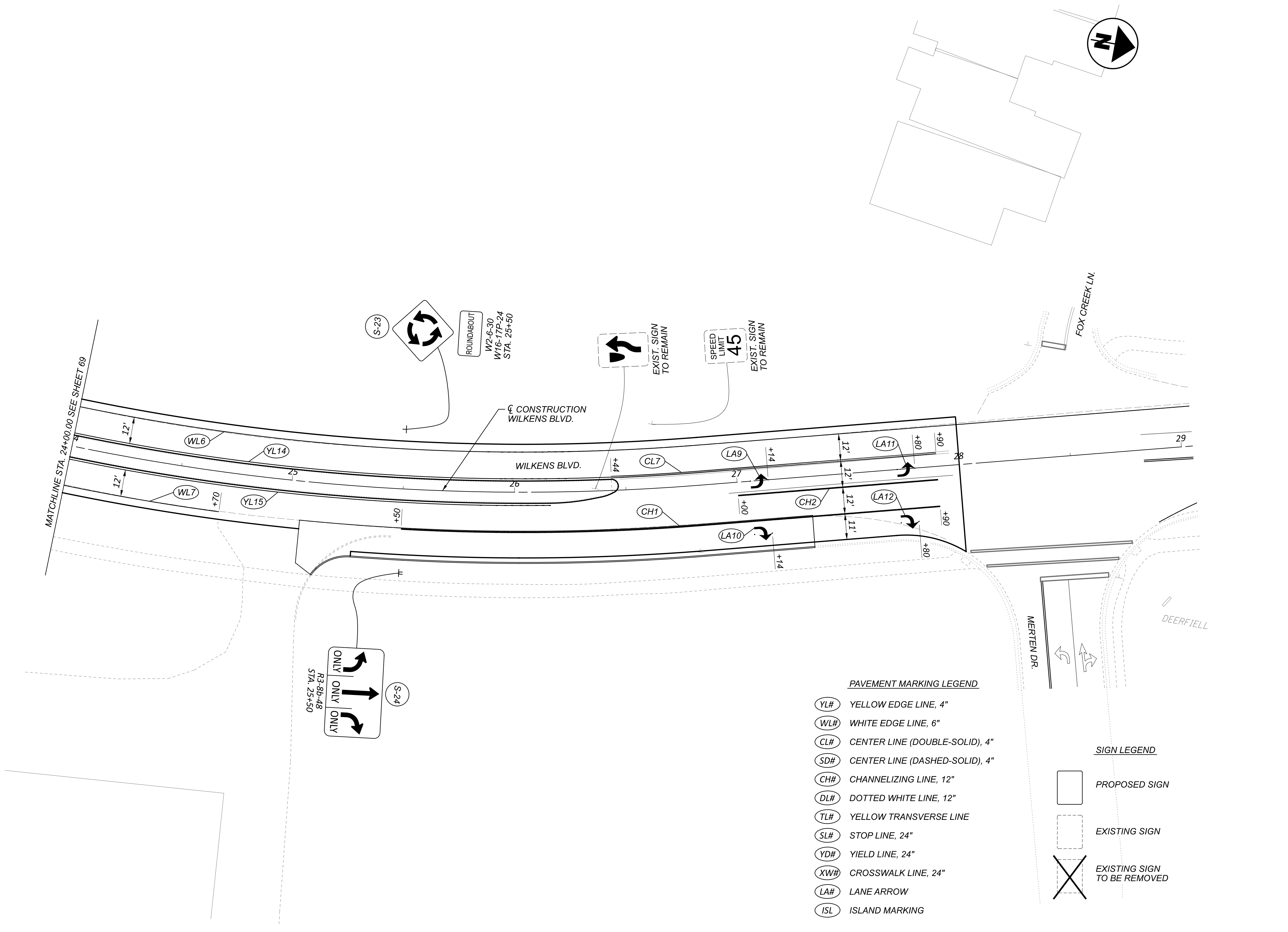
- SIGN LEGEND**
- PROPOSED SIGN
 - EXISTING SIGN TO BE RELOCATED
 - EXISTING SIGN TO BE REMOVED

- DELINEATOR LEGEND**
- BR# ITEM 626, BARRIER REFLECTOR, TYPE 2 (BIDIRECTIONAL)



SIGNING AND PAVEMENT MARKING PLAN
 STA. 45+00.00 TO STA. 49+00.00 - BARDES RD.

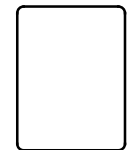
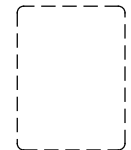
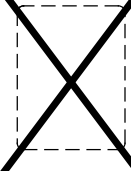
DESIGN AGENCY	
WSP USA, Inc. 312 Elm Street, Suite 2500 Cincinnati, OH 45202	
DESIGNER	
NWA & JRW	
REVIEWER	
EAT 01/30/24	
PROJECT ID	
29076	
SHEET	TOTAL
70	76

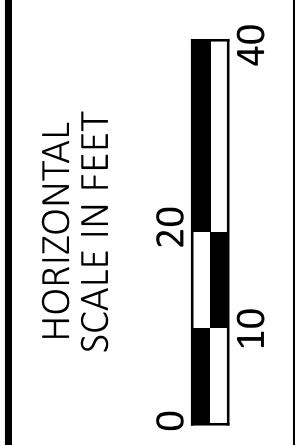


PAVEMENT MARKING LEGEND

- (YL#) YELLOW EDGE LINE, 4"
- (WL#) WHITE EDGE LINE, 6"
- (CL#) CENTER LINE (DOUBLE-SOLID), 4"
- (SD#) CENTER LINE (DASHED-SOLID), 4"
- (CH#) CHANNELIZING LINE, 12"
- (DL#) DOTTED WHITE LINE, 12"
- (TL#) YELLOW TRANSVERSE LINE
- (SL#) STOP LINE, 24"
- (YD#) YIELD LINE, 24"
- (XW#) CROSSWALK LINE, 24"
- (LA#) LANE ARROW
- (ISL) ISLAND MARKING

SIGN LEGEND

-  PROPOSED SIGN
-  EXISTING SIGN
-  EXISTING SIGN TO BE REMOVED



SIGNING AND PAVEMENT MARKING PLAN
STA. 24+00 TO END WORK - WILKENS BLVD.

DESIGN AGENCY



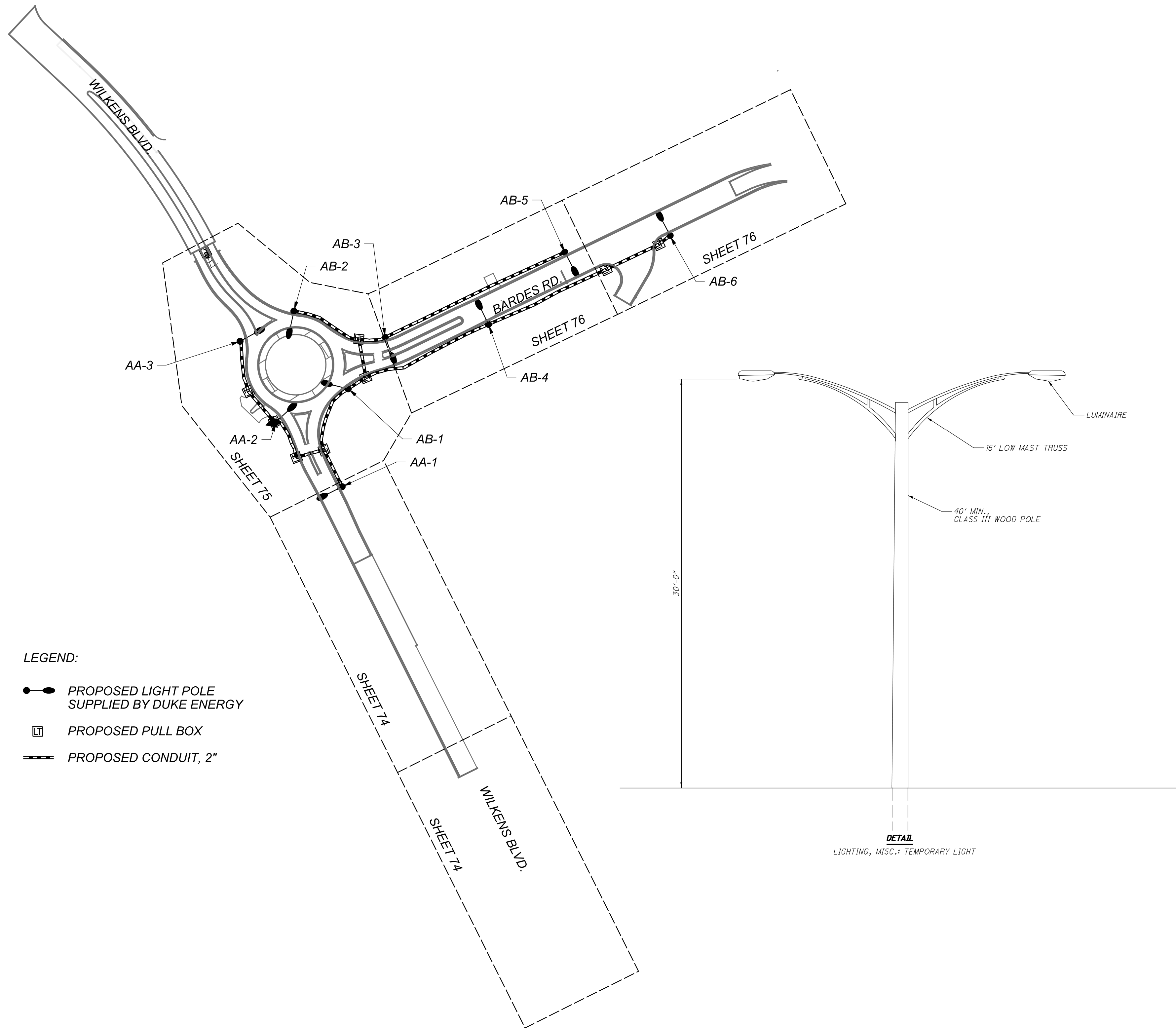
WSP USA, Inc.
 312 Elm Street,
 Suite 2500
 Cincinnati, OH 45202

DESIGNER
NWA & JRW

REVIEWER
 EAT 01/30/24

PROJECT ID
 29076

SHEET	TOTAL
71	76



ITEM 625 STREET LIGHTING

WARREN COUNTY HAS A CONTRACT WITH DUKE ENERGY TO COMPLETE MOST OF THE STREET LIGHTING ITEMS FROM THE LIGHTING PLAN SHEET. THE CONTRACTOR IS ONLY RESPONSIBLE TO COMPLETE THE BID ITEMS ON THE BID PROPOSAL. IF DUKE ENERGY COMPLETES THE STREET LIGHTING ITEMS SUCH THAT THE PERMANENT STREET LIGHTS ARE OPERATIONAL PRIOR TO THE OPENING OF THE ROUNDABOUT, ITEM 625 TEMPORARY LIGHT, AS PER PLAN SHALL BE NON-PERFORMED.

ITEM 625 LIGHTING MISC.: TEMPORARY LIGHT

THIS WORK SHALL CONSIST OF PROVIDING AND INSTALLING A CLASS III WOOD POLE - MINIMUM 40', 2 -15' LOW MAST BRACKET ARMS, 2 - 250W HPS COBRA HEAD STYLE LIGHT FIXTURES, INCLUDING ALL WIRING AND HARDWARE. THE CONTRACTOR SHALL UTILIZE THE PERMANENT LIGHT SERVICE OR A POWER SERVICE AS DIRECTED BY THE ENGINEER FOR THE POWER SOURCE OF THE TEMPORARY LIGHT. THIS ITEM ALSO INCLUDES THE REMOVAL OF ALL COMPONENTS ONCE THE PERMANENT LIGHTS ARE IN PLACE AND FUNCTIONAL. THE CONTRACTOR IS RESPONSIBLE FOR ANY INSPECTION, MAINTENANCE AND REPLACEMENT NEEDED TO PERFORM THIS WORK.

THE TEMPORARY LIGHT FIXTURES (2 - 250W HPS COBRA HEAD STYLE) SHALL CONFORM TO THE REQUIREMENTS BELOW.

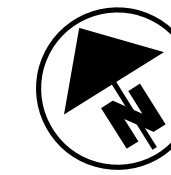
IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LUMINAIRES FOR TEMPORARY LIGHTING UNITS SHALL BE AS FOLLOWS:

LUMINAIRES FOR TEMPORARY LIGHTING UNITS SHALL HAVE AN IES II-M-SC DISTRIBUTION AND A 250 WATT HIGH PRESSURE SODIUM LAMP. THE LUMINAIRES SHALL BE AMERICAN ELECTRIC "SERIES 126" WITH PHOTOMETRIC DISTRIBUTION AE3849I (ADJUST LUMEN VALUE FOR 250W HPS), OR EQUAL AS APPROVED BY THE ENGINEER

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH C&MS ITEM 625. LIGHTING, MISC.: TEMPORARY LIGHT, FOR EACH TEMPORARY LIGHT INSTALLATION, WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625, CONDUIT, 2", 725.05	801 FT
ITEM 625, CONDUIT, 3", 725.05	200 FT
ITEM 625, TRENCH	1001 FT
ITEM 625, PULL BOX, 725.08, 18"	8 EA

PRELIMINARY
 (LIGHTING DESIGN INFO TO BE PROVIDED BY DUKE ENERGY)



LIGHTING SCHEMATIC PLAN

DESIGN AGENCY



WSP USA, Inc.
 312 Elm Street,
 Suite 2500
 Cincinnati, OH 45202

DESIGNER

CRG

REVIEWER

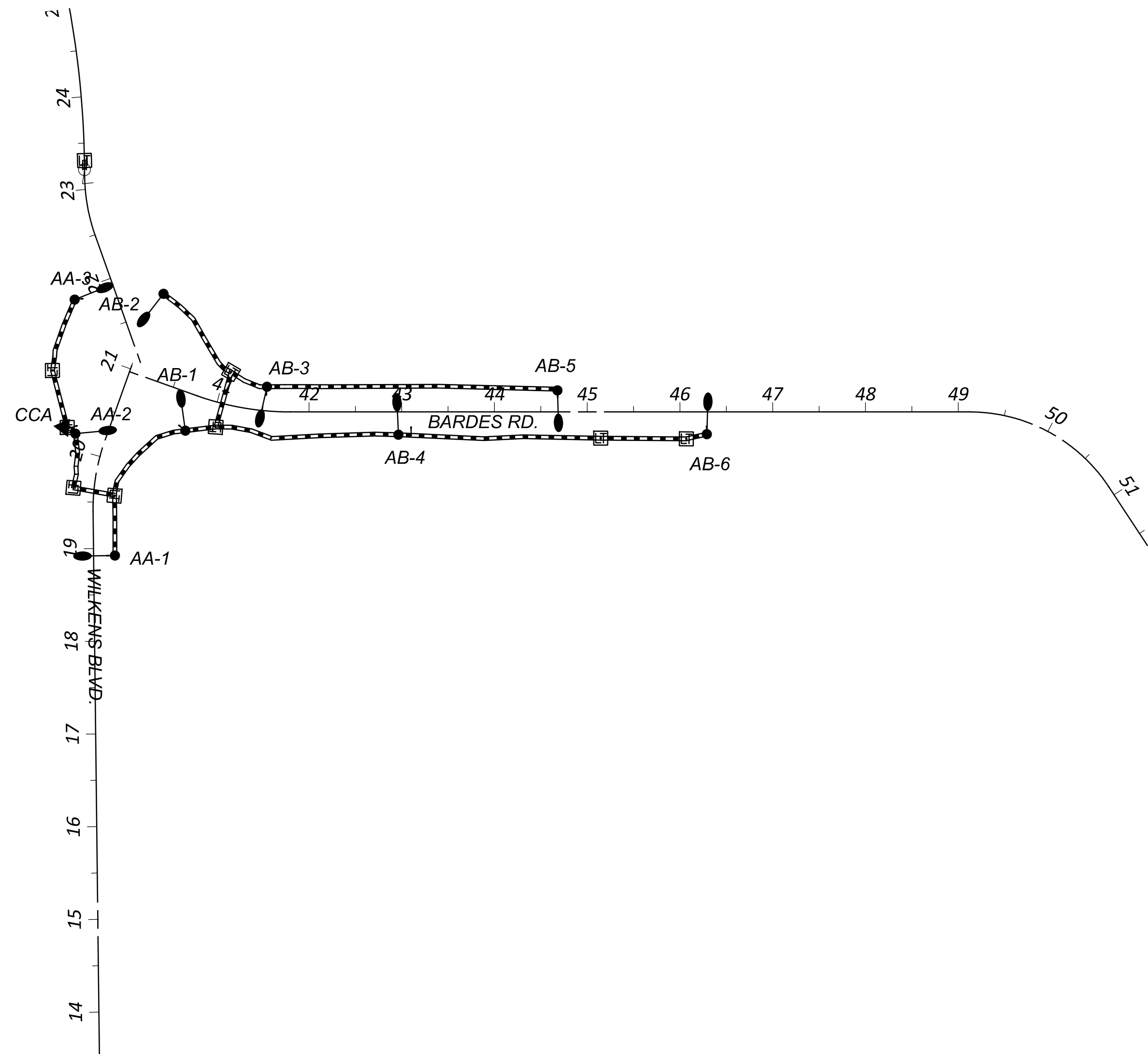
NWA 01/30/24

PROJECT ID




29076

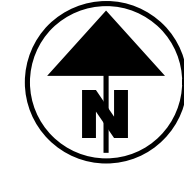
SHEET TOTAL

72 76

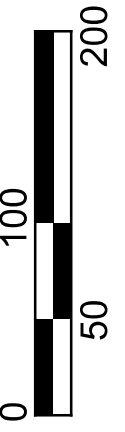


LEGEND:

-  PROPOSED LIGHT POLE SUPPLIED BY DUKE ENERGY
-  PROPOSED PULL BOX
-  PROPOSED CONDUIT, 2"



HORIZONTAL SCALE IN FEET



CIRCUIT SCHEMATIC

DESIGN AGENCY



WSP USA, Inc.
312 Elm Street,
Suite 2500
Cincinnati, OH 45202

DESIGNER

CRG

REVIEWER

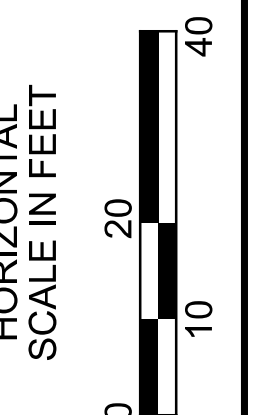
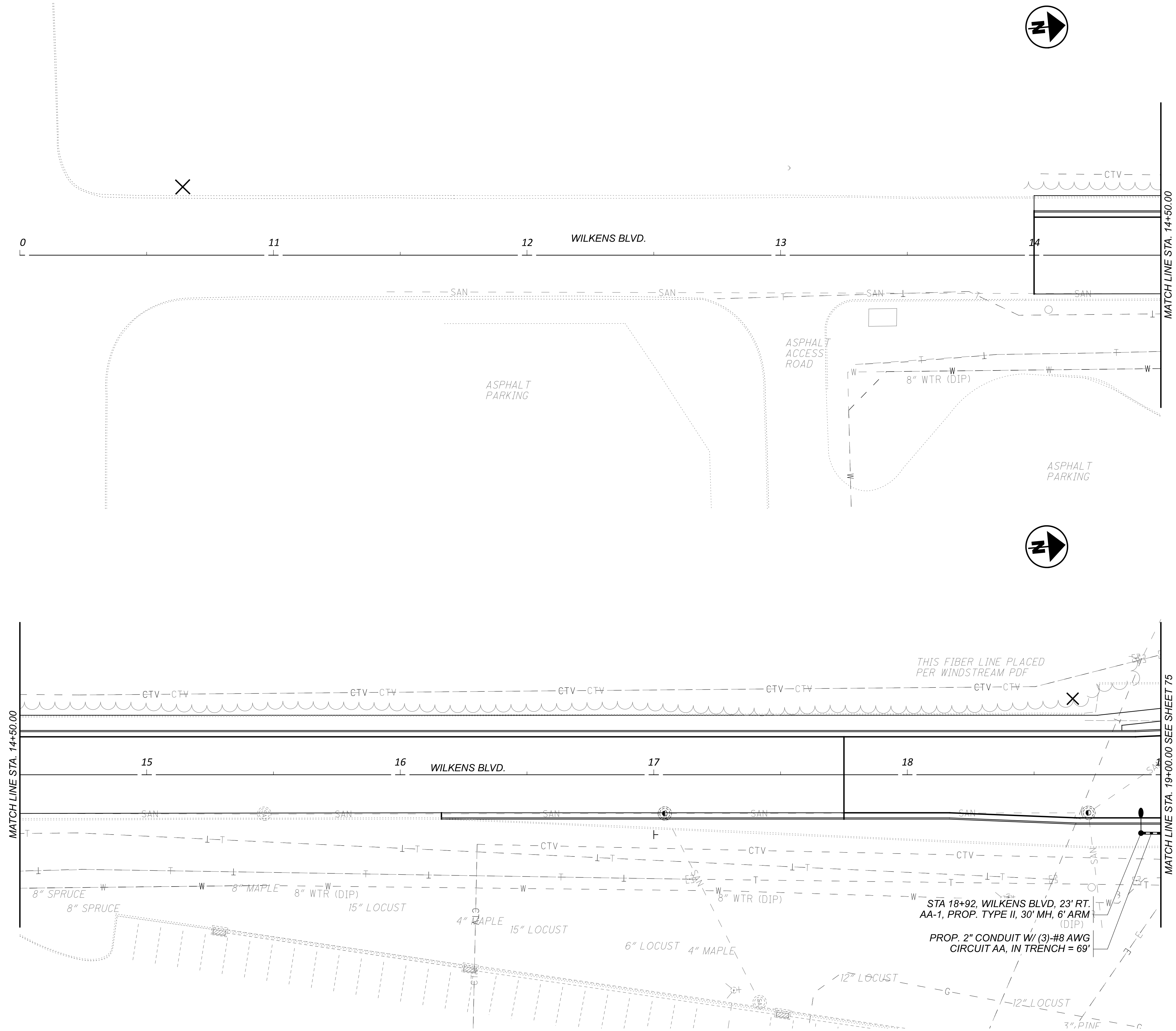
NWA 01/30/24

PROJECT ID

29076

SHEET TOTAL

73 76



LIGHTING PLAN
 BEGIN WORK TO STA. 19+00.00 - WILKENS BLVD.

DESIGN AGENCY



WSP USA, Inc.
 312 Elm Street,
 Suite 2500
 Cincinnati, OH 45202

DESIGNER

CRG

REVIEWER

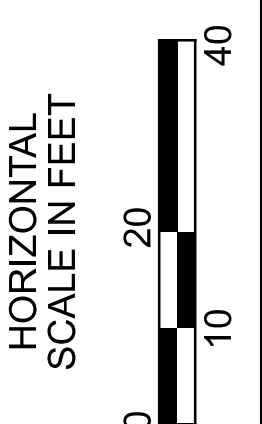
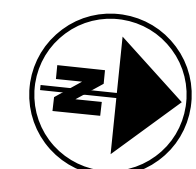
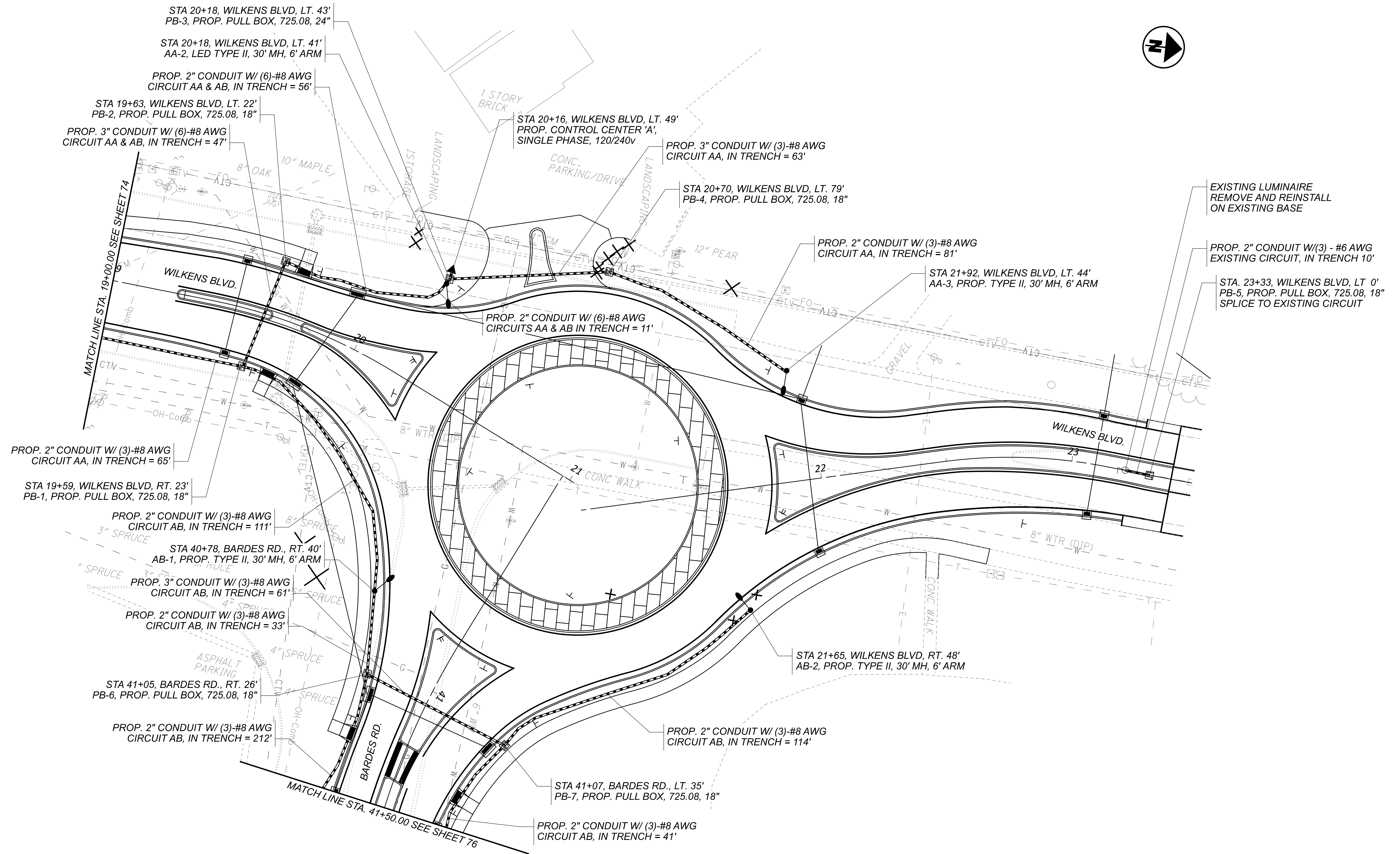
NWA 01/30/24

PROJECT ID

29076

SHEET TOTAL

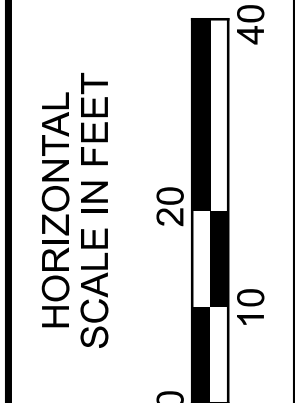
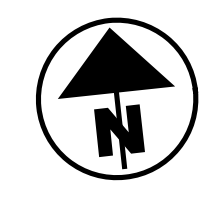
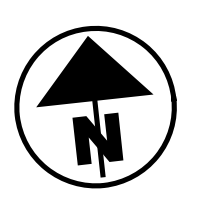
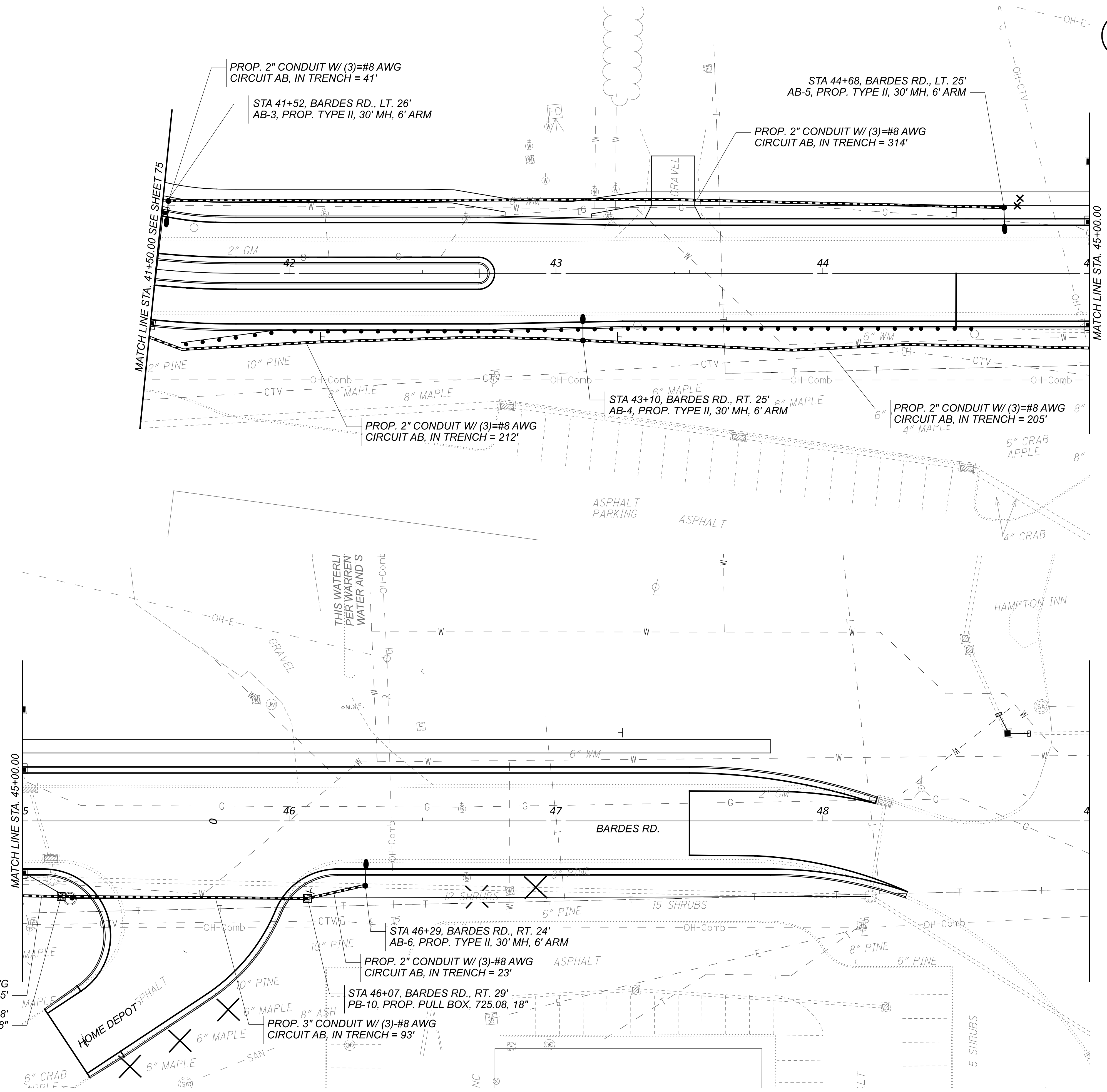
74 76



LIGHTING PLAN
STA. 19+00.00 TO STA. - WILKENS BLVD.

DESIGN AGENCY	
WSP USA, Inc. 312 Elm Street, Suite 2500 Cincinnati, OH 45202	
DESIGNER	
CRG	
REVIEWER	
NWA 01/30/24	
PROJECT ID	
29076	
SHEET	TOTAL
75	76

PROP. 2" CONDUIT W/ (3)-#8 AWG
CIRCUIT AB, IN TRENCH = 205'
STA 45+15, BARDES RD., RT. 28'
PB-7, PROP. PULL BOX, 725.08, 18"



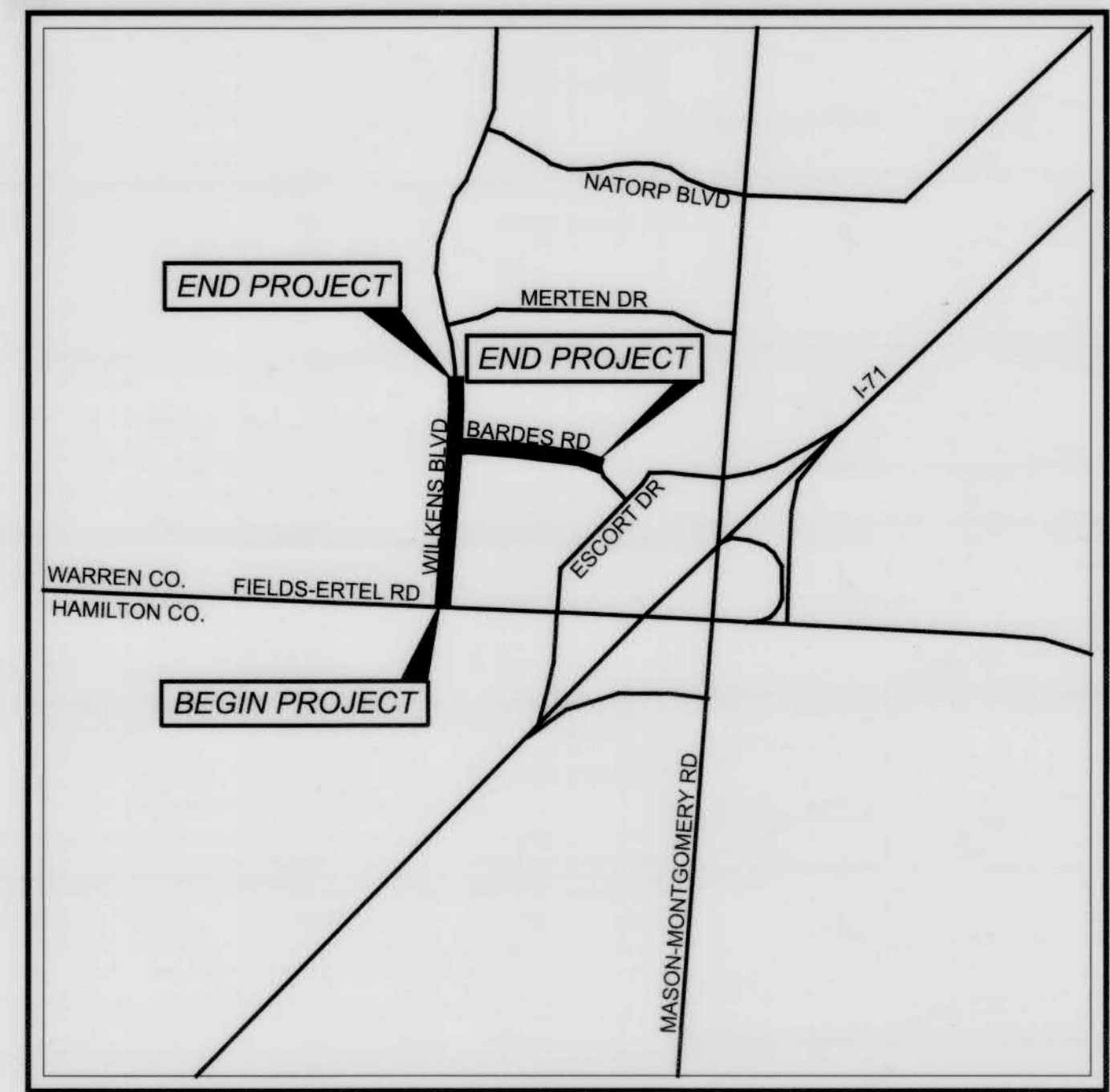
LIGHTING PLAN
STA. 41+50.00 TO 49+00.00 - BARDES RD.

DESIGN AGENCY	
WSP USA, Inc. 312 Elm Street, Suite 2500 Cincinnati, OH 45202	
DESIGNER	
CRG	
REVIEWER	
NWA 01/30/24	
PROJECT ID	
29076	
SHEET	TOTAL
76	76

VOLUME _____, PLAT NO. _____
 WARREN COUNTY ENGINEER'S
 RECORD OF LAND SURVEYS

PRELIMINARY ACCESS APPROVAL
 _____ GRANTED _____ NOT APPLICABLE

NEIL F. TUNISON, P.E., P.S.
 WARREN COUNTY ENGINEER



LOCATION MAP

LATITUDE: 39°17'45" LONGITUDE: -84°19'17"



PORTION TO BE IMPROVED

STRUCTURE KEY

	RESIDENTIAL
	COMMERCIAL
	OUT-BUILDING

RIGHT OF WAY LEGEND SHEET

WILKENS BLVD. (C.R. 610) & BARDES ROAD (T.R. 454)

ROUNDAABOUT IMPROVEMENTS - PART 1

WARREN COUNTY
 DEERFIELD TOWNSHIP
 SEC. 32, T.4, E.R.2

PLANS PREPARED BY:

FIRM NAME : WSP USA
 R/W DESIGNER: CHRIS A. COFFIELD
 R/W REVIEWER: MICHAEL K. SMITH
 FIELD REVIEWER: CHRIS COFFIELD & JOHN BRIGHAM
 PRELIMINARY FIELD REVIEW DATE: 03/29/2021
 TRACINGS FIELD REVIEW DATE: 08/22/2022
 OWNERSHIP UPDATED BY: CHRIS A. COFFIELD
 DATE COMPLETED: 01/23/2023
 PLAN COMPLETION DATE: 01/27/2023

INDEX OF SHEETS:

LEGEND SHEET	1
CENTERLINE PLAT	2
PROPERTY MAP	3
SUMMARY OF ADDITIONAL R/W	4 - 5
R/W TOPOGRAPHIC	6 - 16 (EVEN NUMBERED SHEETS)
R/W BOUNDARY	7 - 17 (ODD NUMBERED SHEETS)

PROJECT DESCRIPTION

ROAD IMPROVEMENTS TO BE PERFORMED IN THE AREA BOUNDED BY FIELDS-ERTEL RD., WILKENS BLVD., MERTEN DR., AND ESCORT. WORK INCLUDES ROADWAY WIDENING AND INTERSECTION CONVERSION TO A ROUNDAABOUT AT WILKENS BLVD. AND BARDES RD.

THE EXISTING AND PROPOSED RIGHT OF WAY SHALL BE REFERENCED FROM THE CENTERLINE OF RIGHT OF WAY.

PROJECT CONTROL

STATE PLANE OHIO SOUTH ZONE, NAD83 (2011)

County Line	-----
Township Line	-----
Section Line	-----
Corporation Line	----- or -----
Fence Line (Ex)	----- (Pr) -----
Center Line	-----
Right of Way (Ex)	----- Ex R/W -----
Right of Way (Pr)	----- R/W -----
Standard Highway Ease.(Ex)	----- Ex SH -----
Standard Highway Ease.(Pr)	----- SH -----
Sewer Easement (Pr)	----- SW -----
Temporary Right of Way	----- TMP -----
Channel Ease. (Pr)	----- CH -----
Utility Ease. (Ex)	----- Ex U -----

CONVENTIONAL SYMBOLS

Railroad	----- or -----	Water Line (Ex.)	----- W -----	Water Line (Pr)	----- W -----	Light (Ex)	☉	Telephone Marker (Ex)	+TEL
Guardrail (Ex)	----- (Pr) -----	Telephone Line (Ex)	----- T -----	Fire Hydrant (Ex)	☼	Fire Hydrant (Pr)	☼	Water Valve (Pr)	⊕
Construction Limits	-----	Cable TV (Ex)	----- CTV -----	Water Valve (Ex)	⊕	Water Meter (Ex)	⊕	Utility Valve Unknown (Ex.)	⊕
Edge of Pavement (Ex)	-----	Gas Line (Ex)	----- G -----	Gas Meter (Ex)	⊕	Gas Line Marker (Ex)	+G	Gas Valve (Ex)	⊕
Edge of Pavement (Pr)	-----	Electric Line (Ex)	----- E -----	Telephone Pedestal (Ex.)	⊕	Telephone Pole (Ex)	⊕	Power Pole (Ex)	⊕
Edge of Shoulder (Ex)	-----	Sanitary Sewer Line (Ex)	----- SAN -----	Telephone, Power, Light Pole (Ex)	⊕	Light Pole (Ex)	⊕	Telephone, Power Pole (Ex)	⊕
Edge of Shoulder (Pr)	-----	Storm Sewer / Culvert (Ex)	----- or -----	Telephone, Power, Light Pole (Ex)	⊕	Light Pole (Pr)	⊕	Signal Strain Pole (Ex)	⊕
Subdivision Lot Line	-----	Fiber Optic Cable (Ex)	----- FO -----	Guy Wire Anchor (Ex)	⊕	Electric Pull Box (Ex)	⊕	Electric Meter (Ex)	⊕
Ditch / Creek (Ex)	-----	Conduit (Pr)	-----	Flag Pole (Ex)	⊕	Single Post Sign (Ex)	⊕	Sprinkler Control Valve (Ex)	⊕
Ditch / Creek (Pr)	-----	Tree (Pr)	☼	Tree (Ex)	☼	Shrub (Ex)	☼	Sprinkler Head (Ex)	⊕
Tree Line (Ex)	-----	Tree (Remove)	☼	Shrub (Remove)	☼	Evergreen (Ex)	☼	Stump (Remove)	☼
Ownership Hook Symbol	Example	Evergreen (Remove)	☼	Stump (Remove)	☼	Post (Ex)	⊕	Mailbox (Ex)	⊕
Property Line Symbol	Example	Post (Ex)	⊕	Mailbox (Ex)	⊕	Sanitary Sewer Manhole (Ex)	⊕	Catch Basin (Ex.)	⊕
Break Line Symbol	Example								

UTILITY OWNERS

CINCINNATI BELL TELEPHONE: 221 EAST 4TH STREET, BUILDING 121-900 CINCINNATI, OH 45202 ATTN: MR. MARK CONNER TELEPHONE: (513) 565-7043 MARK.CONNER@CINBELL.COM	CENTURYLINK-LEVEL3 (INTERNET/TELECOMM): 9490 MERIDIAN WAY WEST CHESTER, OHIO 45069 ATTN: MR. TERRY SPAW- OUTSIDE PLANT ENGINEER TELEPHONE: (513) 644-8933 NATIONALRELO@CENTURYLINK.COM TERRY.SPAW@LEVEL3.COM	AT&T TCA/LNS/METRO/TCG: THAYER POWER AND COMMUNICATION LINE CONSTRUCTION CO., LLC 950 FREEWAY DRIVE N. COLUMBUS, OH 43229 ATTN: CHRISTOPHER MCCLOSKEY- S PROJECT MANAGER TELEPHONE: (614) 431-9292 CHRISMCCLOSKEY @THAYERPC.COM	WARREN COUNTY WATER & SEWER DEPARTMENT P. O. BOX 530 LEBANON, OHIO 45036 ATTN: MR. CHRIS WOJNICZ- SANITARY ENGINEER TELEPHONE: (513) 925-1646 CHRISTOPHER.WOJNICZ@CO. WARREN.OH.US
DUKE ENERGY CORPORATION (ELECTRIC): 139 4TH STREET, 562A CINCINNATI, OH 45202 ATTN: MR. RICK HICKS TELEPHONE: (513) 287-3643 RICK.HICKS@DUKE-ENERGY.COM	METROPOLIAN SEWER DISTRICT GC 1600 GEST STREET CINCINNATI, OH 45204 ATTN: MR. STEVE PARKER ATTN: MS. JENNIFER GERMANN TELEPHONE (513) 244-1351 TELEPHONE (513) 557-7188 STEVEN.PARKER @CINCINNATI-OH.GOV JENNIFER.GERMANN @CINCINNATI-OH.GOV	WARREN COUNTY- PUBLIC UTILITIES: 210 W MAIN STREET LEBANON, OHIO 45036 ATTN: MR. CHUCK PETTY- STORM WATER ENGINEER TELEPHONE: (513) 695-3309 CHARLES.PETTY @CO.WARREN.OH.US	WINDSTREAM: 929 MARTHA'S WAY HIAWATHA, IA 52233 ATTN: MR. KYLE SCHLIEMANN TELEPHONE: (800) 289-1901 KYLE.R.SCHLIEMANN@ WINDSTREAM.COM
DUKE ENERGY CORPORATION (GAS): 139 E. 4TH STREET, RM. 460 A CINCINNATI, OH 45201 ATTN: MR. RALPH PFISTER TELEPHONE: (513) 287-2730 RALPH.PFISTER@ DUKE-ENERGY.COM			OR ATTN.: LEON TAYLOR PHONE: (937) 725-5358 LEON.TAYLOR@WINDSTREAM.COM

NOTES:
 THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE OBTAINED FROM SURFACE EVIDENCE (VALVES AND MANHOLES), MARKINGS FOUND IN THE FIELD, AND/OR THE OWNER OF THE UTILITIES AS REQUIRED BY SECTION 153.64 O.R.C.

TYPES OF TITLE LEGEND:
 WD = WARRANTY DEED
 SH = STANDARD HIGHWAY EASEMENT
 SW = SEWER EASEMENT
 CH = CHANNEL EASEMENT
 T = TEMPORARY EASEMENT

I, TIMOTHY MARK SCHWOPPE, P.S. HAVE CONDUCTED A SURVEY OF THE EXISTING CONDITIONS AND HAVE REESTABLISHED THE EXISTING CENTERLINE OF RIGHT OF WAY OF WILKENS BLVD. C.R. 610, EXISTING RIGHT OF WAY LINES AND PROPERTY LINES FOR THE WARREN COUNTY OHIO ENGINEER'S OFFICE IN AUGUST 2020. THE RESULTS OF THAT SURVEY ARE CONTAINED HEREIN. THE BASIS OF BEARING ARE BASED ON STATE PLANE OHIO SOUTH ZONE, NAD83 (2011). ALL OF MY WORK CONTAINED HEREIN WAS CONDUCTED IN ACCORDANCE WITH OHIO ADMINISTRATIVE CODE 4733-37, COMMONLY KNOWN AS "A 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 UNDER MY DIRECT SUPERVISION.

Timothy Mark Schwoppe
 TIMOTHY MARK SCHWOPPE, PROFESSIONAL LAND SURVEYOR NO. 8410

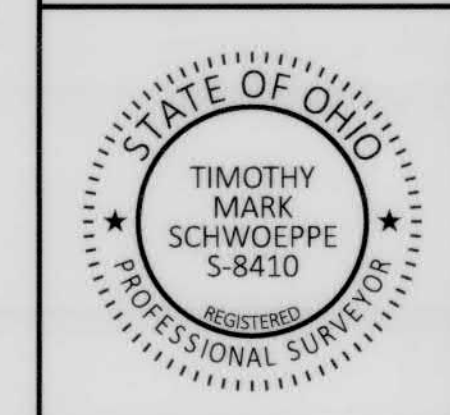
2-1-23
DATE

I, MICHAEL KIM SMITH, P.S. AS PART OF THIS PROJECT I HAVE ESTABLISHED THE CENTERLINE OF RIGHT OF WAY FOR BARDES ROAD, THE PROPOSED RIGHT OF WAY, PROPOSED EASEMENTS, 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 FOR THE WARREN COUNTY OHIO ENGINEER'S OFFICE. THIS WORK IS BASED ON THE SURVEY PROVIDED FROM TIM SCHWOPPE, P.S. IN AUGUST 2020. ALL OF MY WORK CONTAINED HEREIN WAS CONDUCTED IN ACCORDANCE WITH OHIO ADMINISTRATIVE CODE 4733-37, COMMONLY KNOWN AS "A 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 UNDER MY DIRECT SUPERVISION.

Michael Kim Smith
 MICHAEL KIM SMITH, PROFESSIONAL LAND SURVEYOR NO. 8044

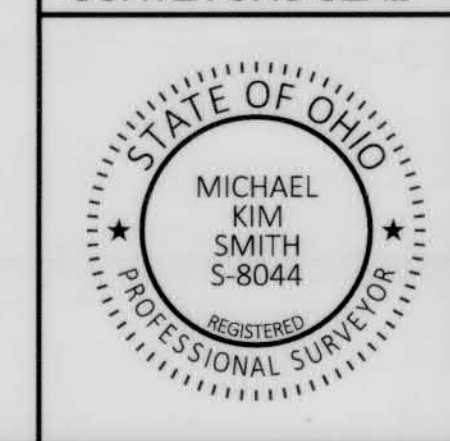
01-27-2023
DATE

SURVEYORS SEAL



DESIGN AGENCY
WSP
 WSP USA, Inc.
 312 Elm Street,
 Suite 2500
 Cincinnati, OH 45202

SURVEYORS SEAL



DESIGNER	CAC
REVIEWER	MKS 07-18-22
PROJECT ID	29076
SUBSET	TOTAL
1	17
SHEET	TOTAL
P.0	0

WAR-C.R. 610-0.15
 MODEL SHEET PAPER SIZE: 34x22 (in.) DATE: 1/27/2023 TIME: 14:46:26 PM USER: Cofffield
 D:\wsp-us-pw\ben\wsp-us-pw-02\Documents\OH - OHIO Proj\sect\29076\400-Engineer\Ing\RW\Sheets\29076-RL000.dgn

RIGHT OF WAY
 LEGEND SHEET

WARREN COUNTY
DEERFIELD TOWNSHIP
SEC. 32, T.4, E.R.2

I, TIMOTHY MARK SCHWOEPPE, P.S. HAVE CONDUCTED A SURVEY OF THE EXISTING CONDITIONS AND HAVE REESTABLISHED THE EXISTING CENTERLINE OF RIGHT OF WAY OF WILKENS BLVD. C.R. 610 FOR THE WARREN COUNTY OHIO ENGINEER'S OFFICE IN AUGUST 2020. THE RESULTS OF THAT SURVEY ARE CONTAINED HEREIN. THE BASIS OF BEARING ARE BASED ON STATE PLANE OHIO SOUTH ZONE, NAD83 (2011). ALL OF MY WORK CONTAINED HEREIN WAS CONDUCTED IN ACCORDANCE WITH OHIO ADMINISTRATIVE CODE 4733-37, COMMONLY KNOWN AS "A 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 UNDER MY DIRECT SUPERVISION.

Tim Schweppe
TIMOTHY MARK SCHWOEPPE, PROFESSIONAL LAND SURVEYOR NO. 8410 DATE 2-1-23

I, MICHAEL KIM SMITH, P.S. AS PART OF THIS PROJECT I HAVE ESTABLISHED THE CENTERLINE OF RIGHT OF WAY FOR BARDES ROAD FOR THE WARREN COUNTY OHIO ENGINEER'S OFFICE. THIS WORK IS BASED ON THE SURVEY PROVIDED FROM TIM SCHWOEPPE, P.S. IN AUGUST 2020. ALL OF MY WORK CONTAINED HEREIN WAS CONDUCTED IN ACCORDANCE WITH OHIO ADMINISTRATIVE CODE 4733-37, COMMONLY KNOWN AS "A 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 UNDER MY DIRECT SUPERVISION.

Michael Kim Smith
MICHAEL KIM SMITH, PROFESSIONAL LAND SURVEYOR NO. 8044 DATE 01-27-2023



CENTERLINE PLAT



BASIS FOR BEARINGS:

ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY.
STATE PLANE OHIO SOUTH ZONE, NAD83 (2011)

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 (SEE NOTE 1)
- ⊙ 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

NOTE 1:

MONUMENTS SHOWN AS IRON PIN SET W/ ID CAP ARE 3/4 INCH DIAMETER BY 30 INCH LONG REBAR WITH A PLASTIC CAP MARKED "MKS S-8044".

CURVE DATA
P.I. = Sta. 15+02.00
Δ = 20°23'19" LT
Dc = 05°43'46"
R = 1,000.00'
T = 179.83'
L = 355.85'
E = 16.04'

- (A) N25°47'32"E, 85.94'
- (B) N23°29'54"W, 89.65'
- (C) N07°35'45"E, 51.43'
- (D) S64°12'28"E, 77.29'
- (E) S27°14'08"E, 75.32'

NOTE: THE EXISTING R/W WIDTH AND LOCATION WERE DETERMINED USING:
BARDES PLAT (PB 27, PG 73-74)
WILKENS BLVD. PHASE A AND PART OF MERTEN DR. AND NATORP BLVD. (PB 48, PG 34-35)
OR 2113, PG 854
HOME DEPOT ESCORT DR. SUBDIVISION (PB 52, PG 3)
DB 736, PG 153

CURV1 CURVE DATA
P.I. = Sta. 19+79.34
Δ = 20°17'10" RT
Dc = 26°02'37"
R = 220.00'
T = 39.36'
L = 77.89'
E = 3.49'

CURV5 CURVE DATA
P.I. = Sta. 50+09.05
Δ = 56°35'49" RT
Dc = 31°49'52"
R = 180.00'
T = 96.91'
L = 177.8'
E = 24.43'

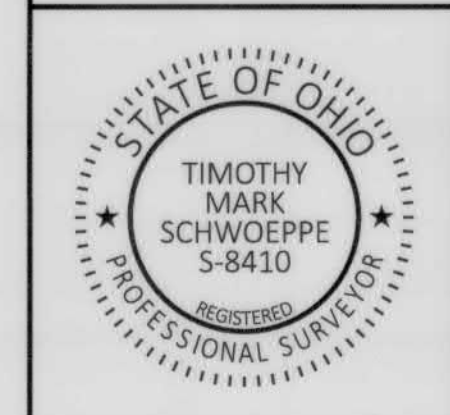
CURV2 CURVE DATA
P.I. = STA. 22+81.64
Δ = 18°47'36" RT
Dc = 28°38'52"
R = 200.00'
T = 33.1'
L = 65.6'
E = 2.72'

CURV3 CURVE DATA
P.I. = Sta. 25+08.62
Δ = 20°14'32" LT
Dc = 05°43'46"
R = 1,000.00'
T = 178.51'
L = 353.29'
E = 15.81'

CURV4 CURVE DATA
P.I. = Sta. 41+29.18
Δ = 19°37'29" LT
Dc = 19°05'55"
R = 300.00'
T = 51.89'
L = 102.76'
E = 4.45'

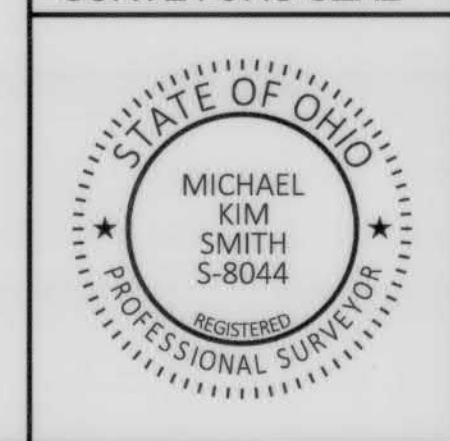
WAR-C.R. 610-0.15
MODEL: Sheet PAPER SIZE: 34x22 (in.) DATE: 1/27/2023 TIME: 1:47:08 PM USER: Corfield
pwt:\wsp-us-pw-bentley.com-wsp-us-pw-02\Documents\OH - OHIO Projects\29076\400-Engineering\RW\Sheets\29076_R0001.dgn

SURVEYORS SEAL



DESIGN AGENCY
WSP
WSP USA, Inc.
312 Elm Street,
Suite 2500
Cincinnati, OH 45202

SURVEYORS SEAL



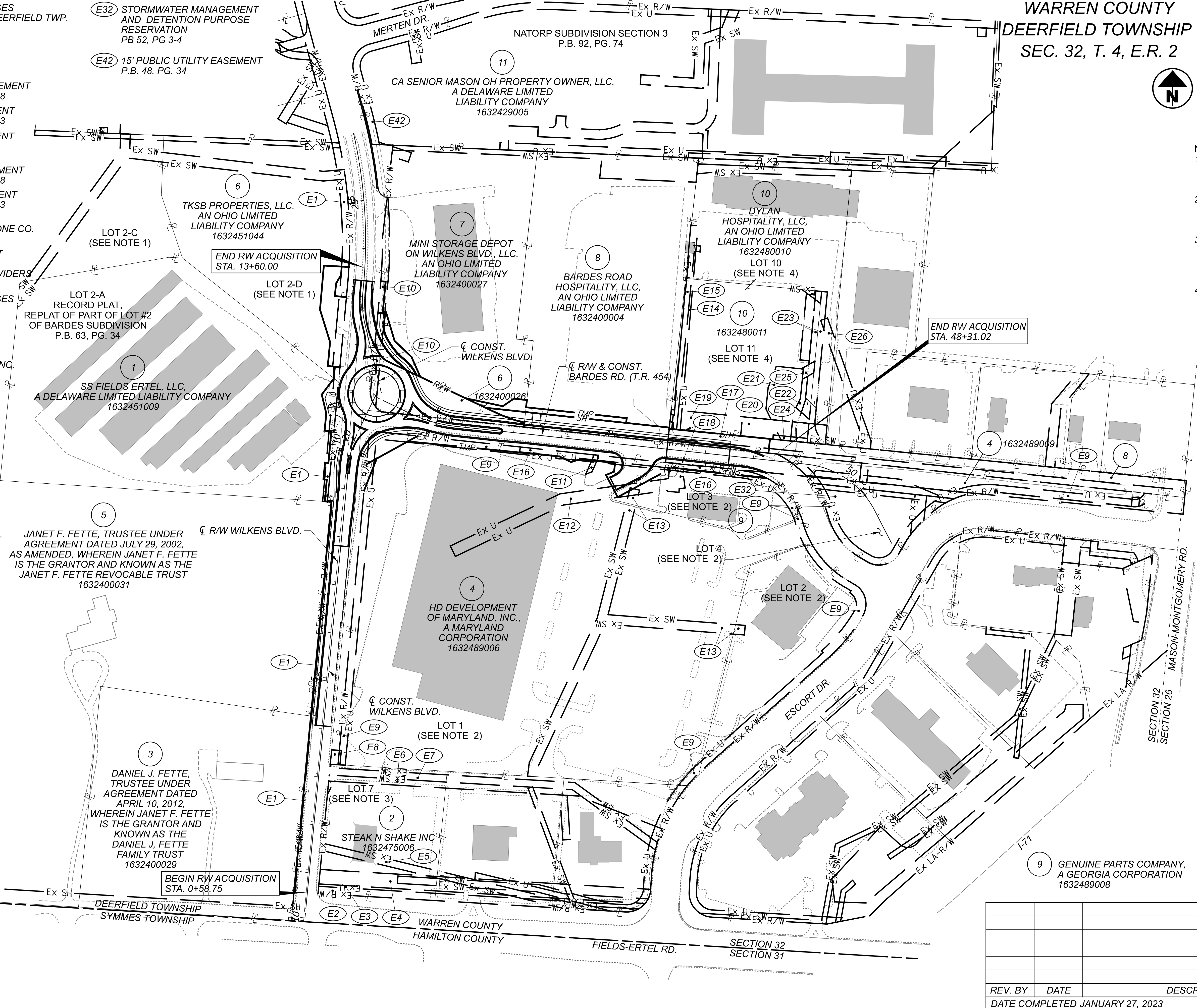
DESIGNER
CAC
REVIEWER
MKS 07-18-22
PROJECT ID
29076
SUBSET TOTAL
2 17
SHEET TOTAL
P.0 0

WAR-C.R. 610-0.15

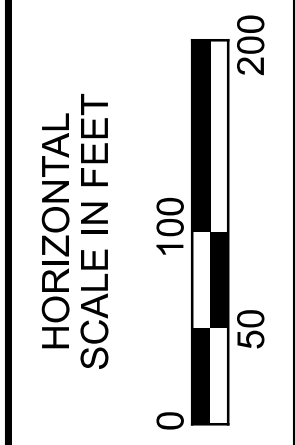
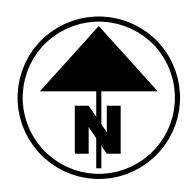
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- (E1) GENERAL UTILITY PURPOSES
BD. OF TWP. TRUSTEES DEERFIELD TWP.
S.R. VOL. 113, PLAT NO. 60
OR 2113 PG 857
- (E2) UTILITY EASEMENT
S.R. VOL. 83, PLAT NO. 40
OR 752 PG 543
- (E3) 20' INGRESS/EGRESS EASEMENT
R.L. SURVEYS 1, PG 227-228
- (E4) 50' ACCESS ROAD EASEMENT
R.L. SURVEYS 1, PG 232-233
- (E5) SANITARY SEWER EASEMENT
WARREN COUNTY, OHIO
OR 219 PG 752
- (E6) 35' INGRESS/EGRESS EASEMENT
R.L. SURVEYS 1, PG 227-228
- (E7) 15' STORM SEWER EASEMENT
R.L. SURVEYS 1, PG 232-233
- (E8) TELEPHONE EASEMENT
CINCINNATI BELL TELEPHONE CO.
OR 1039 PG 370
- (E9) PUBLIC UTILITY EASEMENT
(INCLUDES SIDEWALKS)
ALL PUBLIC SERVICE PROVIDERS
PB 52, PG 3-4
- (E10) GENERAL UTILITY PURPOSES
BD. OF TWP. TRUSTEES
DEERFIELD TWP.
S.R. VOL. 112, PLAT NO. 80
OR 2051 PG 873
- (E11) GAS LINE EASEMENT
CINCINNATI MICROWAVE, INC.
OR 219, PG 764
- (E12) ELECTRIC EASEMENT
THE CINCINNATI GAS &
ELECTRIC COMPANY
OR 117, PG 362
- (E13) 20' SANITARY
SEWER EASEMENT
WARREN COUNTY
SANITARY ENGINEER
PB 52, PG 3-4
- (E14) 15' EASEMENT
THE CINCINNATI GAS &
ELECTRIC COMPANY
R.L. DEEDS 2, PG 151
- (E15) PUBLIC WATER EASEMENT
PB 95, PG 30
- (E16) 15' EASEMENT
THE CINCINNATI GAS &
ELECTRIC COMPANY
FORMER REGISTERED
LAND DEEDS
VOL 1, PG 513
- (E17) 20' STREET &
UTILITY EASEMENT
R.L. DEEDS 2, PG 103
- (E18) 70' STREET &
UTILITY EASEMENT
R.L. DEEDS 2, PG 69
- (E19) 40' PUBLIC
WATER EASEMENT
PB 95, PG 30
- (E20) SIGN EASEMENT
PB 95, PG 30
- (E21) PRIVATE DETENTION
EASEMENT
PB 95, PG 30
- (E22) 20' PRIVATE STORM
SEWER EASEMENT
PB 95, PG 30
- (E23) INGRESS/EGRESS
EASEMENT
PB 95, PG 30
- (E24) PUBLIC SANITARY
SEWER EASEMENT
PB 95, PG 30
- (E25) 20' PRIVATE SANITARY
SEWER EASEMENT
PB 95, PG 30
- (E26) EASEMENT
THE CINCINNATI GAS &
ELECTRIC COMPANY
R.L. DEEDS 2, PG 151

- (E32) STORMWATER MANAGEMENT
AND DETENTION PURPOSE
RESERVATION
PB 52, PG 3-4
- (E42) 15' PUBLIC UTILITY EASEMENT
P.B. 48, PG. 34



**WARREN COUNTY
DEERFIELD TOWNSHIP
SEC. 32, T. 4, E.R. 2**



- NOTES:
1. BARDES-WILKENS SUBDIVISION
P.B. 90, PG. 35
 2. HOME DEPOT ESCORT DRIVE SUBDIVISION
P.B. 52, PG. 3-4
 3. PASSPORT SUBDIVISION REPLAT 2
RL SURVEY 1
PG. 246 & 247
 4. CINCY HOSPITALITY SUBDIVISION, PHASE 2
P.B. 95, PG. 30

PROPERTY MAP

DESIGN AGENCY
wsp
WSP USA, Inc.
312 Elm Street,
Suite 2500
Cincinnati, OH 45202

DESIGNER	CAC
REVIEWER	MKS 07-18-22
PROJECT ID	29076
SUBSET	3
TOTAL	17
SHEET	P.0
TOTAL	0

REV. BY	DATE	DESCRIPTION

DATE COMPLETED JANUARY 27, 2023

TOTAL NUMBER OF :

6 OWNERSHIPS 0 TOTAL TAKES
 16 PARCELS 0 OWNERSHIPS W/ STRUCTURES INVOLVED

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE
 NET TAKE = GROSS TAKE - PRO IN TAKE

ALL AREAS IN ACRES

GRANTEE:

ALL RIGHT OF WAY ACQUIRED IN THE NAME OF
 WARREN COUNTY BOARD OF COMMISSIONERS
 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	
			BOOK	PAGE								LEFT	RIGHT			BOOK	PAGE
1-WD	SS FIELDS ERTEL, LLC, A DELAWARE LIMITED LIABILITY COMPANY	3,6-9	OR 4402	441	1632451009	6.3943	0	0.0288	0	0.0288	S	6.3655	0	TID	* 7' FENCE; SIGN, 2' FENCE; 0.0288 ACRES OVERLAP AN EXISTING UTILITY EASEMENT		
1-T		3,8-11						0.0790	0	0.0790					TO CONSTRUCT A DRIVEWAY AND GRADING 2 FLAG HOLDERS AND LANDSCAPING WITH 7 SHRUBS; 0.0463 ACRES OVERLAP AN EX. UTILITY EASEMENT		
2	STEAK N SHAKE INC	3,6-7	2018-016761		1632475006	1.5000									NO ADDITIONAL R/W REQUIRED		
3	DANIEL J. FETTE, TRUSTEE UNDER AGREEMENT DATED APRIL 10, 2012, WHEREIN JANET F. FETTE IS THE GRANTOR AND KNOWN AS THE DANIEL J. FETTE FAMILY TRUST	3,6-7	OR 5545	319	1632400029	4.4835									NO ADDITIONAL R/W REQUIRED		
4-SH	HD DEVELOPMENT OF MARYLAND, INC., A MARYLAND CORPORATION	3,10-11	OR 3600	968	1632489006 1632489009	11.7332 1.2938	0 0	0.0768 0.0000	0 0	0.0768 0.0000					2 TREES AUDITOR SHOWS LEGAL DESCRIPTION AREA AS 1.2938 AC. BUT LAND RECORDS AS 0.8250 AC. FOR 1632489009		
	GRAND TOTAL					13.0270	0	0.0768	0	0.0768		0	12.9502		0.045 ACRES OVERLAPS THE EXISTING UTILITY EASEMENT TO CONSTRUCT GRADING; 0.012 ACRES OVERLAPS THE EXISTING UTILITY EASEMENT		
4-T1		3,8-11			1632489006			0.0126	0	0.0126					TO CONSTRUCT A DRIVEWAY AND GRADING; 0.156 ACRES OVERLAPS THE EXISTING UTILITY EASEMENTS		
4-T2		3,10-17			1632489006			0.2204	0	0.2204							
5	JANET F. FETTE, TRUSTEE UNDER AGREEMENT DATED JULY 29, 2002, AS AMENDED, WHEREIN JANET F. FETTE IS THE GRANTOR AND KNOWN AS THE JANET F. FETTE REVOCABLE TRUST	3,6-9	2014-013534		1632400031	9.3396									NO ADDITIONAL R/W REQUIRED		
6-WD	TKSB PROPERTIES, LLC, AN OHIO LIMITED LIABILITY COMPANY	3,10,11, 14-15	2018-008903 OR 4135	198	1632451044 1632400026	3.1258 0.3973	0 0	0.0000 0.3973	0 0	0.0000 0.3973					TOTAL TAKE OF PARCEL NUMBER 1632400026. NO NEW DESCRIPTION PREPARED FOR 6-WD, SEE NOTE ON SHEETS 11 AND 15.		
	6-WD TOTAL					3.5231	0	0.3973	0	0.3973		3.1258	0		0.0339 ACRES OVERLAPS AN EXISTING UTILITY EASEMENT TREE, PLYWOOD SIGN, GRAVEL DRIVEWAY		
6-SW		3,10-11			1632451044			0.0289	0	0.0289	S				0.0215 ACRES OVERLAPS AN EXISTING UTILITY EASEMENT 0.0503 ACRES OVERLAPS AN EXISTING UTILITY EASEMENT		
6-CH		3,10-11			1632451044			0.1689	0	0.1689					TO CONSTRUCT GRADING; 0.0064 ACRES OVERLAPS AN EXISTING UTILITY EASEMENT		
6-T		3,10-11			1632451044			0.0070	0	0.0070							
7-SH1	MINI STORAGE DEPOT ON WILKENS BLVD., LLC, AN OHIO LIMITED LIABILITY COMPANY	3,10-11	2019-033239		1632400027	3.4951	0	0.0727	0	0.0727					0.0256 ACRES OVERLAPS AN EXISTING UTILITY EASEMENT		
7-SH2		3,14-15						0.0245	0	0.0245							
	GRAND TOTAL					3.4951	0	0.0972	0	0.0972		0	3.3979				
7-T1		3,10-11						0.0532	0	0.0532					TO CONSTRUCT GRADING 0.0150 ACRES OVERLAPS AN EXISTING UTILITY EASEMENT		
7-T2		3,14-15						0.0357	0	0.0357					TO CONSTRUCT GRADING		

SUMMARY OF ADDITIONAL RIGHT OF WAY
 PARCELS 1 - 7



DESIGNER	CAC
REVIEWER	MKS 07-18-22
PROJECT ID	29076
SUBSET	4
TOTAL	17
SHEET	P.0
TOTAL	0

TYPES OF TITLE LEGEND:
 WD = WARRANTY DEED
 SH = STANDARD HIGHWAY EASEMENT
 CH = CHANNEL EASEMENT
 SW = SEWER EASEMENT
 T = TEMPORARY EASEMENT

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

NOTE: ALL TEMPORARY PARCELS TO
 BE OF 12 MONTH DURATION.

(c) = CALCULATED AREA * DENOTES RIGHT OF WAY ENCROACHMENT

REV. BY	DATE	DESCRIPTION
CAC	2/13/23	ADDED REMARK FOR 6-WD
FIELD REVIEW BY CHRIS COFFIELD DATE: 08/22/22		
OWNERSHIP VERIFIED BY CHRIS COFFIELD DATE: 01/23/23		
DATE COMPLETED JANUARY 27, 2023		

WAR-C.R. 610-0.15

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NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE
 NET TAKE = GROSS TAKE - PRO IN TAKE

ALL AREAS IN ACRES

GRANTEE:
 ALL RIGHT OF WAY ACQUIRED IN THE NAME OF
 WARREN COUNTY BOARD OF COMMISSIONERS
 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	
			BOOK	PAGE								LEFT	RIGHT			BOOK	PAGE
8-SH	BARDES ROAD HOSPITALITY, LLC, AN OHIO LIMITED LIABILITY COMPANY	3,14-17	2014-007929		1632400004	4.77	0	0.3525	0	0.3525		4.4175	0	TID	0.1394 ACRES OVERLAPS EXISTING UTILITY EASEMENTS		
8-T		3,14-17						0.0482	0	0.0482					TO CONSTRUCT GRADING		
9-T	GENUINE PARTS COMPANY, A GEORGIA CORPORATION	3,16-17	OR 4927	956	1632489008	0.8252	0	0.0780	0	0.0780					TO CONSTRUCT GRADING; *TREE; 35 SHRUBS, 5 TREES; 0.0623 ACRES OVERLAPS EXISTING UTILITY EASEMENTS		
10	DYLAN HOSPITALITY, LLC, AN OHIO LIMITED LIABILITY COMPANY	3,16-17	2017-014540		1632480011	2.0594									NO ADDITIONAL R/W REQUIRED		
			OR 5917	413	1632480010	2.0881											
11	CA SENIOR MASON OH PROPERTY OWNER, LLC, A DELAWARE LIMITED LIABILITY COMPANY	3,12-13	2016-011845		1632429005	8.9358									NO ADDITIONAL R/W REQUIRED		

SUMMARY OF ADDITIONAL RIGHT OF WAY
 PARCELS 8-11

WAR-C.R. 610-0.15

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TYPES OF TITLE LEGEND:
 WD = WARRANTY DEED
 SH = STANDARD HIGHWAY EASEMENT
 CH = CHANNEL EASEMENT
 SW = SEWER EASEMENT
 T = TEMPORARY EASEMENT

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

NOTE: ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.

(c) = CALCULATED AREA * DENOTES RIGHT OF WAY ENCROACHMENT



DESIGNER	CAC
REVIEWER	MKS 07-18-22
PROJECT ID	29076
SUBSET	TOTAL
5	17
SHEET	TOTAL
P.0	0

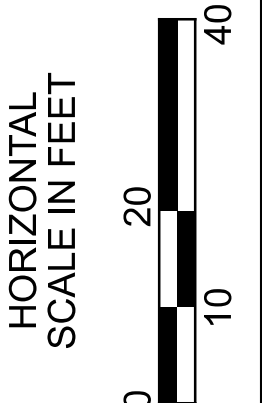
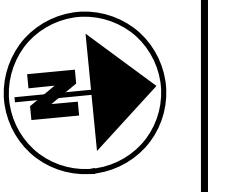
REV. BY	DATE	DESCRIPTION
FIELD REVIEW BY	CHRIS COFFIELD	DATE: 08/22/22
OWNERSHIP VERIFIED BY	CHRIS COFFIELD	DATE: 01/23/23
DATE COMPLETED JANUARY 27, 2023		

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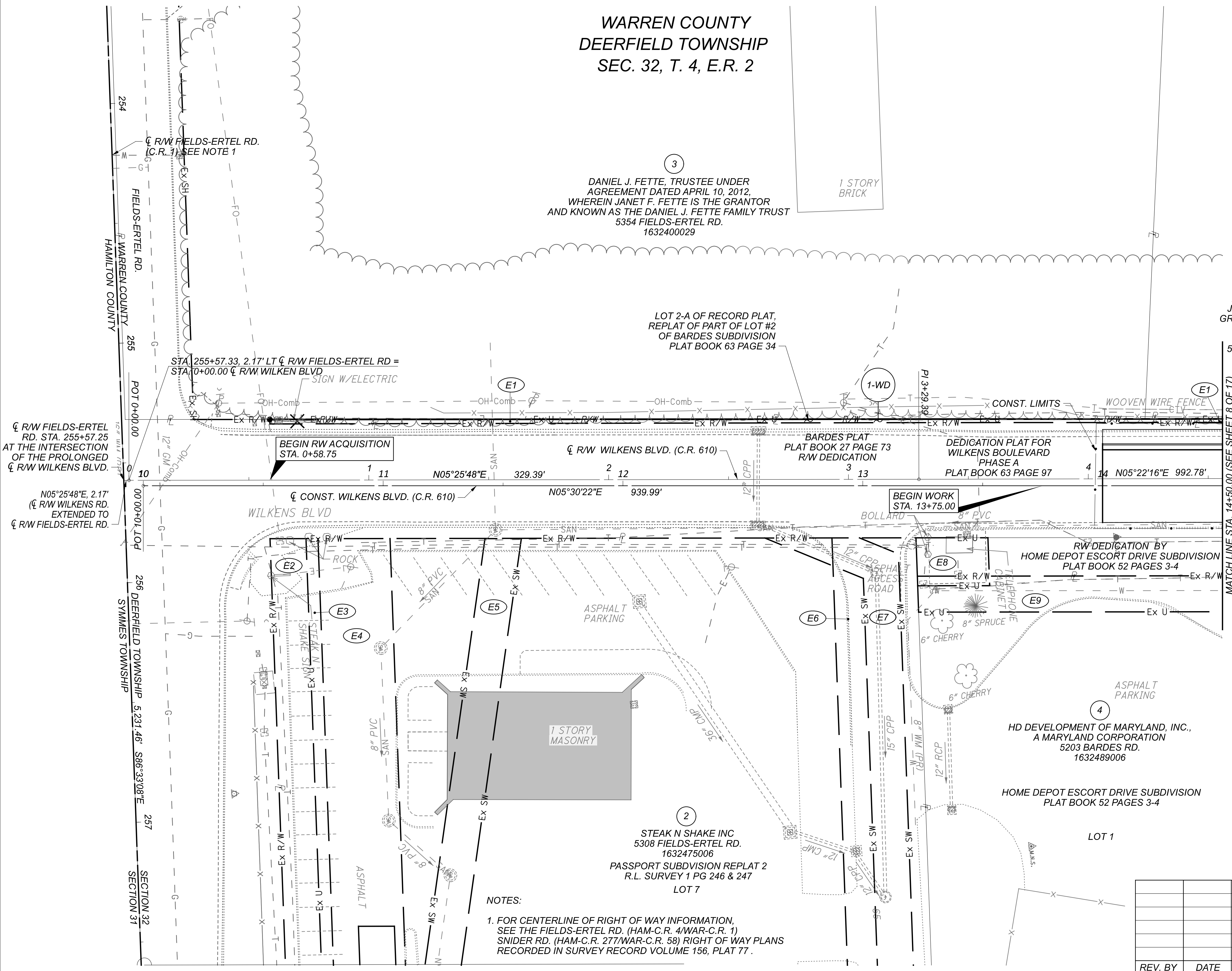
WARREN COUNTY
DEERFIELD TOWNSHIP
SEC. 32, T. 4, E.R. 2

3
DANIEL J. FETTE, TRUSTEE UNDER
AGREEMENT DATED APRIL 10, 2012,
WHEREIN JANET F. FETTE IS THE GRANTOR
AND KNOWN AS THE DANIEL J. FETTE FAMILY TRUST
5354 FIELDS-ERTEL RD.
1632400029

1 SS FIELDS ERTEL, LLC,
A DELAWARE LIMITED
LIABILITY COMPANY
9805 WILKENS BLVD.
1632451009



R/W TOPO SHEET - WILKENS BLVD.
BEGIN WORK TO STA. 14+50



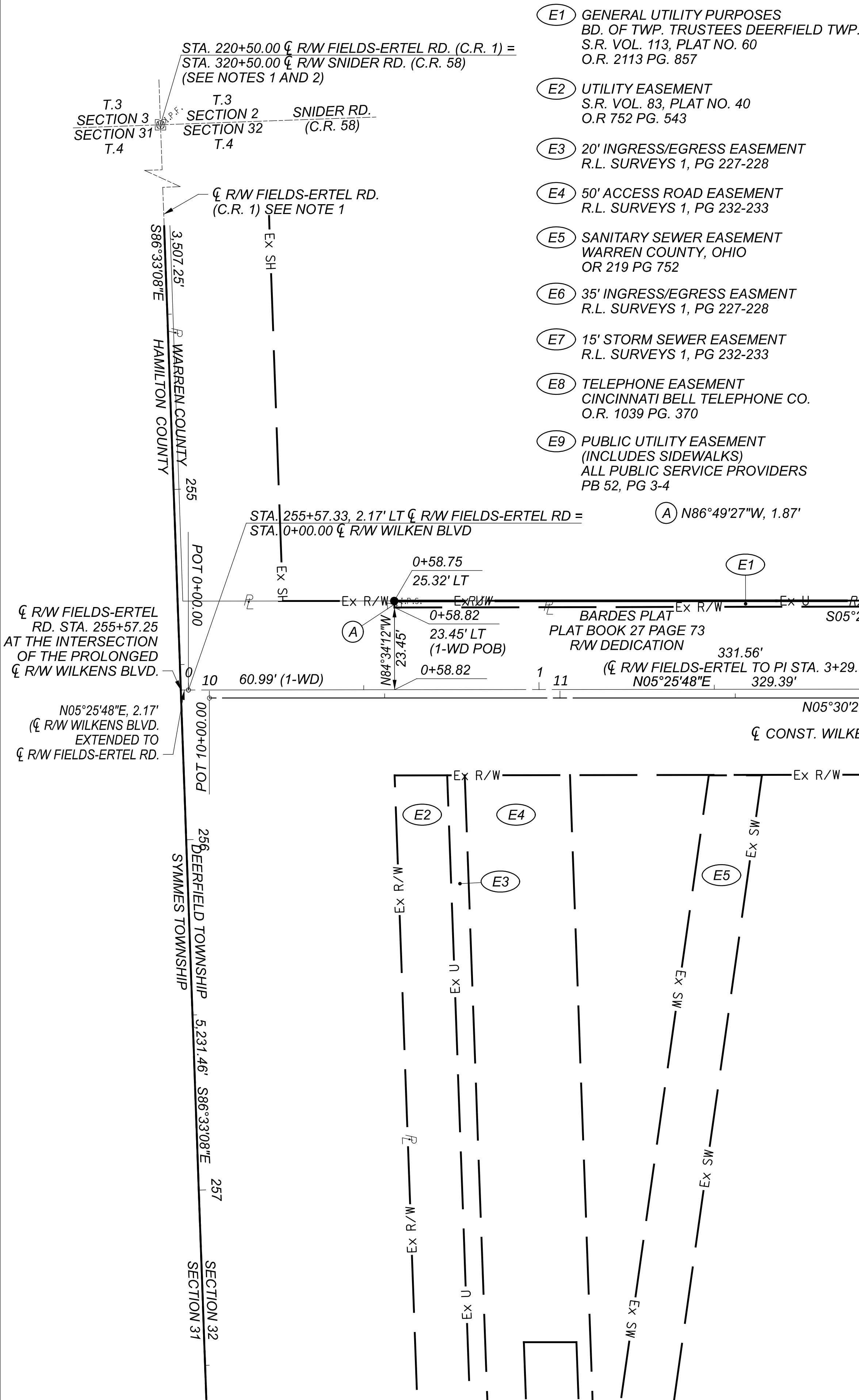
5
JANET F. FETTE,
TRUSTEE UNDER
AGREEMENT DATED
JULY 29, 2002, AS
AMENDED, WHEREIN
JANET F. FETTE IS THE
GRANTOR AND KNOWN AS
THE JANET F. FETTE
REVOCABLE TRUST
5406 FIELDS-ERTEL RD.
1632400031

- (E1) GENERAL UTILITY PURPOSES
BD. OF TWP. TRUSTEES DEERFIELD TWP.
S.R. VOL. 113, PLAT NO. 60
O.R. 2113 PG 857
- (E2) UTILITY EASEMENT
S.R. VOL. 83, PLAT NO. 40
O.R. 752 PG 543
- (E3) 20' INGRESS/EGRESS EASEMENT
R.L. SURVEYS 1, PG 227-228
- (E4) 50' ACCESS ROAD EASEMENT
R.L. SURVEYS 1, PG 232-233
- (E5) SANITARY SEWER EASEMENT
WARREN COUNTY, OHIO
OR 219 PG 752
- (E6) 35' INGRESS/EGRESS EASMENT
R.L. SURVEYS 1, PG 227-228
- (E7) 15' STORM SEWER EASEMENT
R.L. SURVEYS 1, PG 232-233
- (E8) TELEPHONE EASEMENT
CINCINNATI BELL TELEPHONE CO.
O.R. 1039 PG 370
- (E9) PUBLIC UTILITY EASEMENT
(INCLUDES SIDEWALKS)
ALL PUBLIC SERVICE PROVIDERS
PB 52, PG 3-4

NOTES:
1. FOR CENTERLINE OF RIGHT OF WAY INFORMATION,
SEE THE FIELDS-ERTEL RD. (HAM-C.R. 4/WAR-C.R. 1)
SNIDER RD. (HAM-C.R. 277/WAR-C.R. 58) RIGHT OF WAY PLANS
RECORDED IN SURVEY RECORD VOLUME 156, PLAT 77.

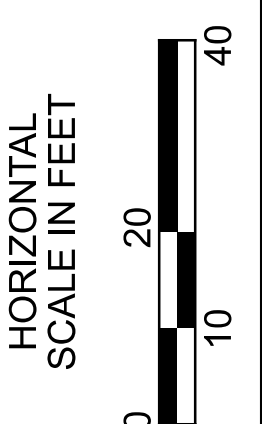
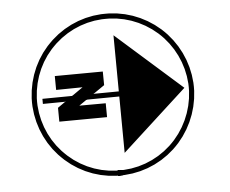
REV. BY	DATE	DESCRIPTION
DATE COMPLETED JANUARY 27, 2023		

DESIGN AGENCY	WSP
DESIGNER	CAC
REVIEWER	MKS 07-18-22
PROJECT ID	29076
SUBSET	6
TOTAL	17
SHEET	P.0
TOTAL	0



WARREN COUNTY DEERFIELD TOWNSHIP SEC. 32, T. 4, E.R. 2

1 SS FIELDS ERTEL, LLC,
A DELAWARE LIMITED
LIABILITY COMPANY
1632451009



- (E1) GENERAL UTILITY PURPOSES
BD. OF TWP. TRUSTEES DEERFIELD TWP.
S.R. VOL. 113, PLAT NO. 60
O.R. 2113 PG. 857
- (E2) UTILITY EASEMENT
S.R. VOL. 83, PLAT NO. 40
O.R. 752 PG. 543
- (E3) 20' INGRESS/EGRESS EASEMENT
R.L. SURVEYS 1, PG 227-228
- (E4) 50' ACCESS ROAD EASEMENT
R.L. SURVEYS 1, PG 232-233
- (E5) SANITARY SEWER EASEMENT
WARREN COUNTY, OHIO
OR 219 PG 752
- (E6) 35' INGRESS/EGRESS EASMENT
R.L. SURVEYS 1, PG 227-228
- (E7) 15' STORM SEWER EASEMENT
R.L. SURVEYS 1, PG 232-233
- (E8) TELEPHONE EASEMENT
CINCINNATI BELL TELEPHONE CO.
O.R. 1039 PG. 370
- (E9) PUBLIC UTILITY EASEMENT
(INCLUDES SIDEWALKS)
ALL PUBLIC SERVICE PROVIDERS
PB 52, PG 3-4

NOTES:

1. FOR CENTERLINE OF RIGHT OF WAY INFORMATION,
SEE THE FIELDS-ERTEL RD. (HAM-C.R. 4/WAR-C.R. 1)
SNIDER RD. (HAM-C.R. 277/WAR-C.R. 58) RIGHT OF WAY PLANS
RECORDED IN SURVEY RECORD VOLUME 156, PLAT 77.
2. THE FOUND IRON PIN IN THE MONUMENT BOX IN THE
INTERSECTION OF FIELDS-ERTEL RD. (C.R. 1) AND
SNIDER RD. (C.R. 58), BEING THE SOUTHWEST CORNER
OF SECTION 32, T.4 IS THE POINT OF COMMENCEMENT
FOR ALL PARCELS.

LOT 2-A OF RECORD PLAT,
REPLAT OF PART OF LOT #2
OF BARDES SUBDIVISION
PLAT BOOK 63 PAGE 34

3 DANIEL J. FETTE, TRUSTEE UNDER
AGREEMENT DATED APRIL 10, 2012,
WHEREIN JANET F. FETTE IS THE GRANTOR
AND KNOWN AS THE DANIEL J. FETTE FAMILY TRUST
1632400029

5 JANET F. FETTE,
TRUSTEE UNDER
AGREEMENT DATED
JULY 29, 2002, AS
AMENDED, WHEREIN
JANET F. FETTE IS THE
GRANTOR AND KNOWN AS
THE JANET F. FETTE
REVOCABLE TRUST
1632400031

2 STEAK N SHAKE INC
1632475006
PASSPORT SUBDIVISION REPLAT 2
R.L. SURVEYS 1 PG 246 & 247
LOT 7

4 HD DEVELOPMENT OF MARYLAND, INC.,
A MARYLAND CORPORATION
1632489006

HOME DEPOT ESCORT DRIVE SUBDIVISION
PLAT BOOK 52 PAGES 3-4

LOT 1

REV. BY	DATE	DESCRIPTION
DATE COMPLETED JANUARY 27, 2023		

R/W BOUNDARY SHEET - WILKENS BLVD.
BEGIN WORK TO STA. 14+50

DESIGN AGENCY
WSP
WSP USA, Inc.
312 Elm Street,
Suite 2500
Cincinnati, OH 45202

DESIGNER	CAC
REVIEWER	MKS 07-18-22
PROJECT ID	29076
SUBSET	7 TOTAL 17
SHEET	P.0 TOTAL 0

WAR-C.R. 610-0.15

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WARREN COUNTY DEERFIELD TOWNSHIP SEC. 32, T. 4, E.R. 2



* = ENCROACHMENT



E1 GENERAL UTILITY PURPOSES
BD. OF TWP. TRUSTEES DEERFIELD TWP.
S.R. VOL. 113, PLAT NO. 60
OR 2113 PG 857

E9 PUBLIC UTILITY EASEMENT
(INCLUDES SIDEWALKS)
ALL PUBLIC SERVICE PROVIDERS
PB 52, PG 3-4

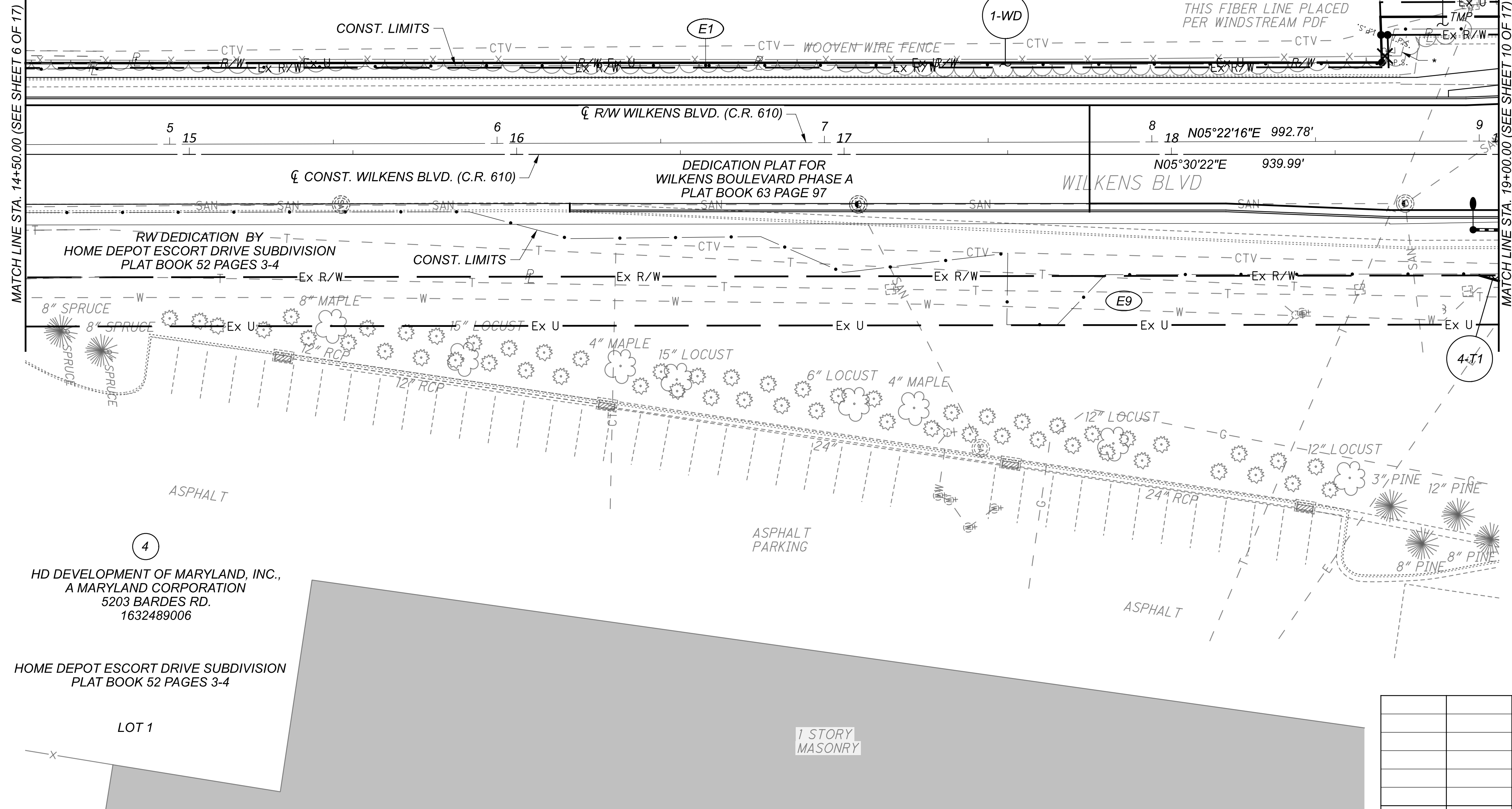
RECORD PLAT,
REPLAT OF PART OF LOT #2
OF BARDES SUBDIVISION
PLAT BOOK 63 PAGE 34
LOT 2-A

5
JANET F. FETTE,
TRUSTEE UNDER
AGREEMENT DATED
JULY 29, 2002, AS
AMENDED, WHEREIN
JANET F. FETTE IS THE
GRANTOR AND KNOWN AS
THE JANET F. FETTE
REVOCABLE TRUST
5406 FIELDS-ERTEL RD.
1632400031

1
SS FIELDS ERTEL, LLC,
A DELAWARE LIMITED
LIABILITY COMPANY
9805 WILKENS BLVD.
1632451009

MATCH LINE STA. 14+50.00 (SEE SHEET 6 OF 17)

MATCH LINE STA. 19+00.00 (SEE SHEET 10 OF 17)



4
HD DEVELOPMENT OF MARYLAND, INC.,
A MARYLAND CORPORATION
5203 BARDES RD.
1632489006

HOME DEPOT ESCORT DRIVE SUBDIVISION
PLAT BOOK 52 PAGES 3-4

LOT 1

1 STORY
MASONRY

R/W TOPO SHEET - WILKENS BLVD.
STA. 14+50 TO STA. 19+00

DESIGN AGENCY



WSP USA, Inc.
312 Elm Street,
Suite 2500
Cincinnati, OH 45202

DESIGNER

CAC

REVIEWER

MKS 07-18-22

PROJECT ID

29076

SUBSET TOTAL

8 17

SHEET TOTAL

P.0 0

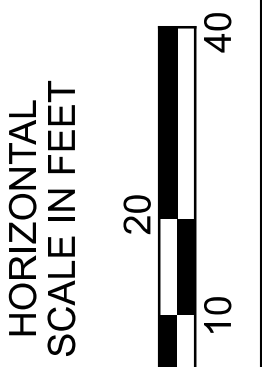
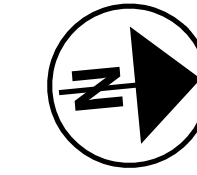
REV. BY	DATE	DESCRIPTION

DATE COMPLETED JANUARY 27, 2023

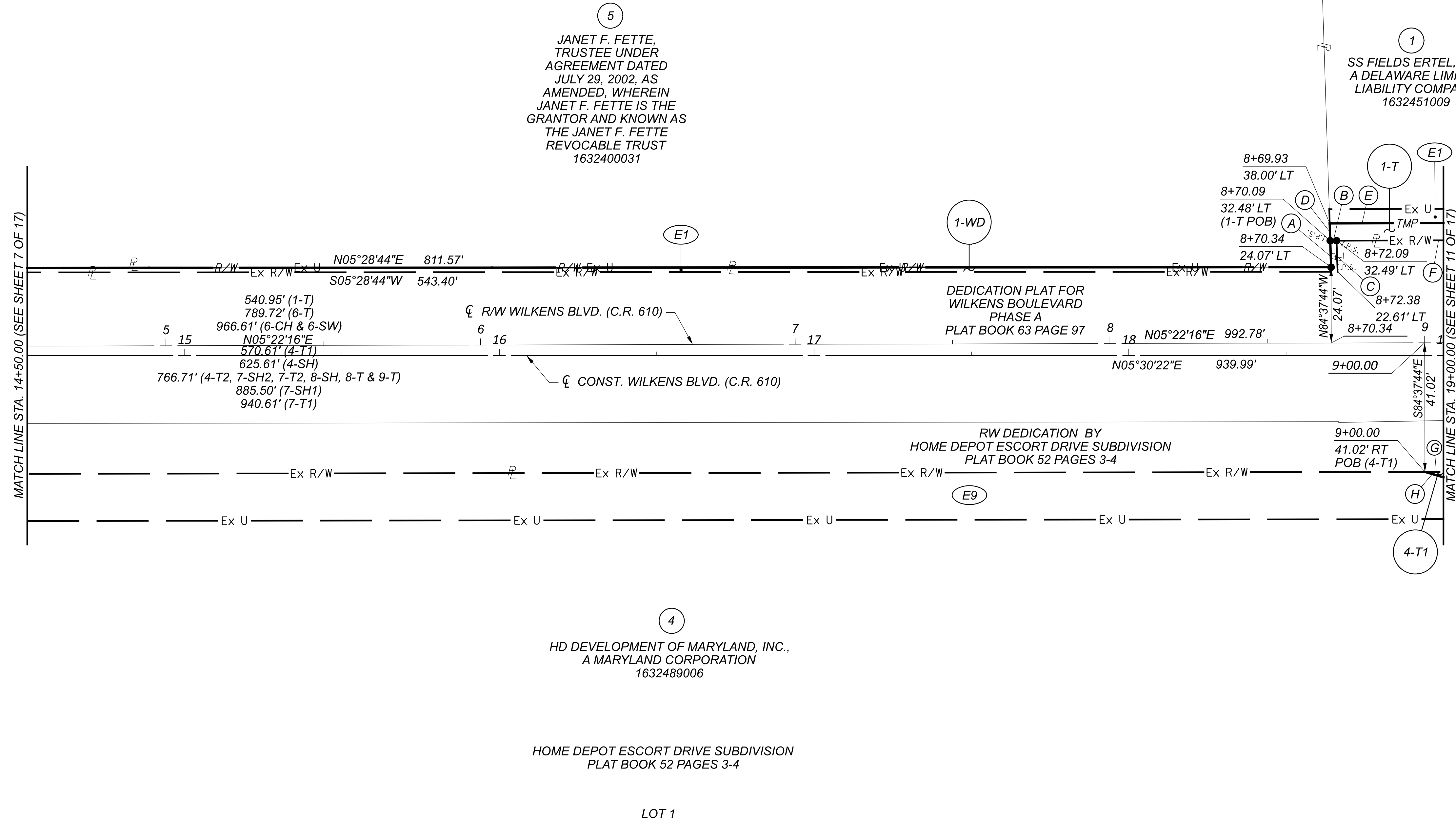
WARREN COUNTY
 DEERFIELD TOWNSHIP
 SEC. 32, T. 4, E.R. 2

- (E1) GENERAL UTILITY PURPOSES
 BD. OF TWP. TRUSTEES DEERFIELD TWP.
 S.R. VOL. 113, PLAT NO. 60
 OR 2113 PG 857
- (E9) PUBLIC UTILITY EASEMENT
 (INCLUDES SIDEWALKS)
 ALL PUBLIC SERVICE PROVIDERS
 PB 52, PG 3-4

- (A) N86°19'40"W, 8.42'
- (B) N05°18'20"E, 2.00'
- (C) S86°19'40"E, 9.88'
- (D) N86°19'40"W, 5.52'
- (E) N05°22'16"E, 45.07'
- (F) S05°18'20"W, 247.02'
- (G) N05°25'48"E, 55.00'
- (H) S21°37'23"W, 71.38'



RECORD PLAT,
 REPLAT OF PART OF LOT #2
 OF BARDES SUBDIVISION
 PLAT BOOK 63 PAGE 34
 LOT 2-A



DESIGN AGENCY	WSP	
DESIGNER	CAC	
REVIEWER	MKS 07-18-22	
PROJECT ID	29076	
SUBSET	9	TOTAL 17
SHEET	P.0	TOTAL 0
REV. BY	DATE	DESCRIPTION
DATE COMPLETED JANUARY 27, 2023		

R/W BOUNDARY SHEET - WILKENS BLVD.
 STA. 14+50 TO STA. 19+00

(5)
 JANET F. FETTE,
 TRUSTEE UNDER
 AGREEMENT DATED
 JULY 29, 2002, AS
 AMENDED, WHEREIN
 JANET F. FETTE IS THE
 GRANTOR AND KNOWN AS
 THE JANET F. FETTE
 REVOCABLE TRUST
 1632400031

(1)
 SS FIELDS ERTEL, LLC,
 A DELAWARE LIMITED
 LIABILITY COMPANY
 1632451009

DEDICATION PLAT FOR
 WILKENS BOULEVARD
 PHASE A
 PLAT BOOK 63 PAGE 97

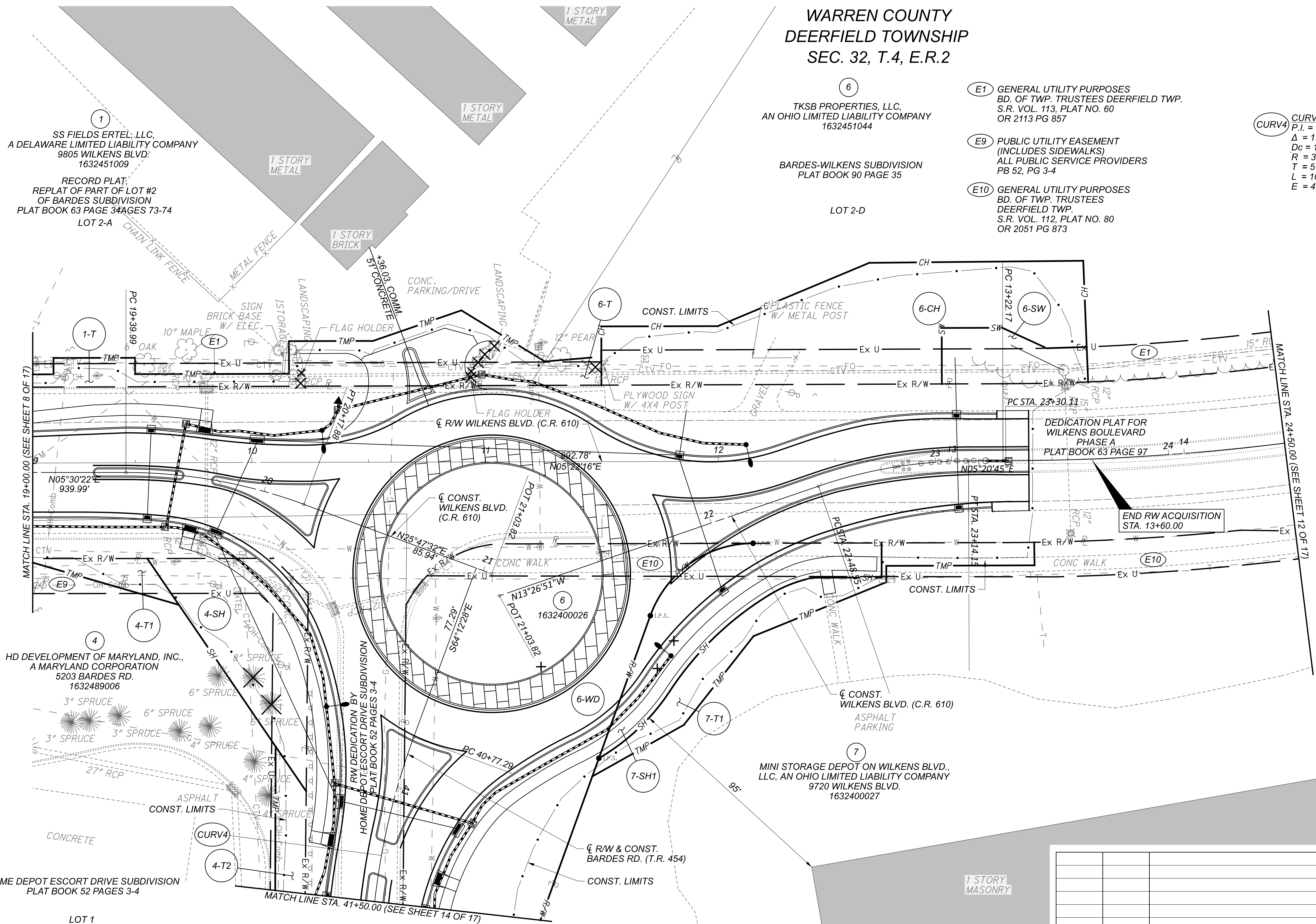
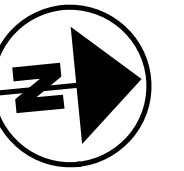
RW DEDICATION BY
 HOME DEPOT ESCORT DRIVE SUBDIVISION
 PLAT BOOK 52 PAGES 3-4

(4)
 HD DEVELOPMENT OF MARYLAND, INC.,
 A MARYLAND CORPORATION
 1632489006

HOME DEPOT ESCORT DRIVE SUBDIVISION
 PLAT BOOK 52 PAGES 3-4

LOT 1

WARREN COUNTY
 DEERFIELD TOWNSHIP
 SEC. 32, T.4, E.R.2



1 SS FIELDS ERTEL, LLC,
 A DELAWARE LIMITED LIABILITY COMPANY
 9805 WILKENS BLVD.
 1632451009
 RECORD PLAT:
 REPLAT OF PART OF LOT #2
 OF BARDES SUBDIVISION
 PLAT BOOK 63 PAGE 34 PAGES 73-74
 LOT 2-A

6 TKS B PROPERTIES, LLC,
 AN OHIO LIMITED LIABILITY COMPANY
 1632451044

BARDES-WILKENS SUBDIVISION
 PLAT BOOK 90 PAGE 35

E1 GENERAL UTILITY PURPOSES
 BD. OF TWP. TRUSTEES DEERFIELD TWP.
 S.R. VOL. 113, PLAT NO. 60
 OR 2113 PG 857

E9 PUBLIC UTILITY EASEMENT
 (INCLUDES SIDEWALKS)
 ALL PUBLIC SERVICE PROVIDERS
 PB 52, PG 3-4

E10 GENERAL UTILITY PURPOSES
 BD. OF TWP. TRUSTEES
 DEERFIELD TWP.
 S.R. VOL. 112, PLAT NO. 80
 OR 2051 PG 873

CURV4 CURVE DATA
 P.I. = Sta. 41+29.18
 $\Delta = 19^{\circ}37'29''$ LT
 $D_c = 19^{\circ}05'55''$
 $R = 300.00'$
 $T = 51.89'$
 $L = 102.76'$
 $E = 4.45'$

4 HD DEVELOPMENT OF MARYLAND, INC.,
 A MARYLAND CORPORATION
 5203 BARDES RD.
 1632489006

7 MINI STORAGE DEPOT ON WILKENS BLVD.,
 LLC, AN OHIO LIMITED LIABILITY COMPANY
 9720 WILKENS BLVD.
 1632400027

REV. BY	DATE	DESCRIPTION
DATE COMPLETED JANUARY 27, 2023		

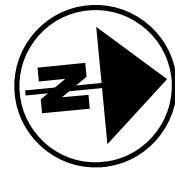
R/W TOPO SHEET - WILKENS BLVD.
 STA. 19+00 TO STA. 24+50

DESIGN AGENCY

 WSP USA, Inc.
 312 Elm Street,
 Suite 2500
 Cincinnati, OH 45202

DESIGNER	CAC
REVIEWER	MKS 07-18-22
PROJECT ID	29076
SUBSET	TOTAL
10	17
SHEET	TOTAL
P.0	0

WARREN COUNTY
DEERFIELD TOWNSHIP
SEC. 32, T. 4, E.R. 2



R/W BOUNDARY SHEET - WILKENS BLVD.
STA. 19+00 TO STA. 24+50

DESIGN AGENCY



WSP USA, Inc.
312 Elm Street,
Suite 2500
Cincinnati, OH 45202

DESIGNER

CAC

REVIEWER

MKS 07-18-22

PROJECT ID

29076

SUBSET

11 17

SHEET

P.0 0

CURV1 CURVE DATA
P.I. = STA. 19+79.34
Δ = 20°17'10" RT
Dc = 26°02'37"
R = 220.00'
T = 39.36'
L = 77.89'
E = 3.49'

CURV3 CURVE DATA
P.I. = Sta. 25+08.62
Δ = 20°14'32" LT
Dc = 05°43'46"
R = 1,000.00'
T = 178.51'
L = 353.29'
E = 15.81'

RW-1 CURVE DATA
P.I. = Sta. 15+02.00
Δ = 20°23'19" LT
Dc = 05°43'46"
R = 1,000.00'
T = 179.83'
L = 355.85'
E = 16.04'

CURV2 CURVE DATA
P.I. = STA. 22+81.64
Δ = 18°47'36" RT
Dc = 28°38'52"
R = 200.00'
T = 33.1'
L = 65.6'
E = 2.72'

CURV4 CURVE DATA
P.I. = Sta. 41+29.18
Δ = 19°37'29" LT
Dc = 19°05'55"
R = 300.00'
T = 51.89'
L = 102.76'
E = 4.45'

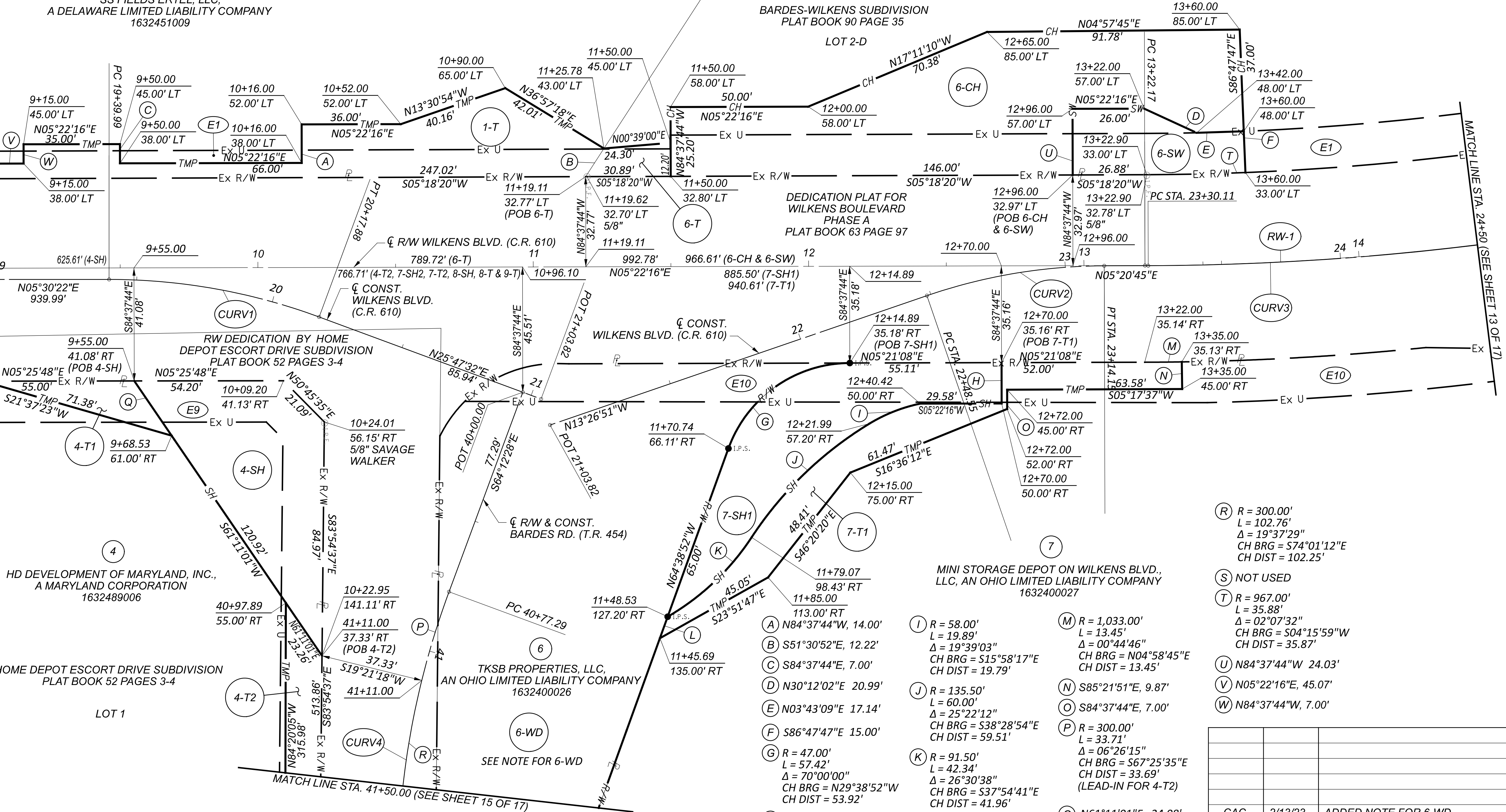
RECORD PLAT,
REPLAT OF PART OF LOT #2
OF BARDES SUBDIVISION
PLAT BOOK 63 PAGE 34
LOT 2-A

SS FIELDS ERTEL, LLC,
A DELAWARE LIMITED LIABILITY COMPANY
1632451009

TKSB PROPERTIES, LLC,
AN OHIO LIMITED LIABILITY COMPANY
1632451044

BARDES-WILKENS SUBDIVISION
PLAT BOOK 90 PAGE 35
LOT 2-D

DEDICATION PLAT FOR
WILKENS BOULEVARD
PHASE A
PLAT BOOK 63 PAGE 97



NOTE FOR 6-WD:
THE BOUNDS FOR PARCEL 6-WD PER DEED RECORDED IN OR
VOLUME DEED 4135 PAGE 198 DESCRIBES ITS SOUTH LINE TO BE
COMMON WITH THE NORTH RIGHT OF WAY OF BARDES ROAD PER
THE HOME DEPOT ESCORT DRIVE SUBDIVISION PLAT FILED IN PLAT
BOOK 52, PAGE 3 AND 4. THE NORTH LINE OF BARDES ROAD WAS
ESTABLISHED UPON FIELD RECOVERED MONUMENTATION SHOWN
ON THE HOME DEPOT SUBDIVISION PLAT. DUE TO LACK OF FIELD
EVIDENCE FOR PARCEL 6 IT WAS LOCATED BASED UPON RECOVERED
MONUMENTS FROM NATORP SUBDIVISION PLAT BOOK 92, PAGE 74
AND SURROUNDING PARCELS, CREATING A GAP BETWEEN THE NORTH
LINE OF BARDES ROAD BETWEEN THE DEED LOCATION AND THE
PLATTED LOCATION. THE EAST LINE OF PARCEL 6-WD WAS EXTENDED
TO ITS INTERSECTION WITH THE NORTH LINE OF BARDES ROAD AS IT
WAS DEDICATED VIA THE HOME DEPOT PLAT. NO NEW DESCRIPTION
PREPARED FOR 6-WD.

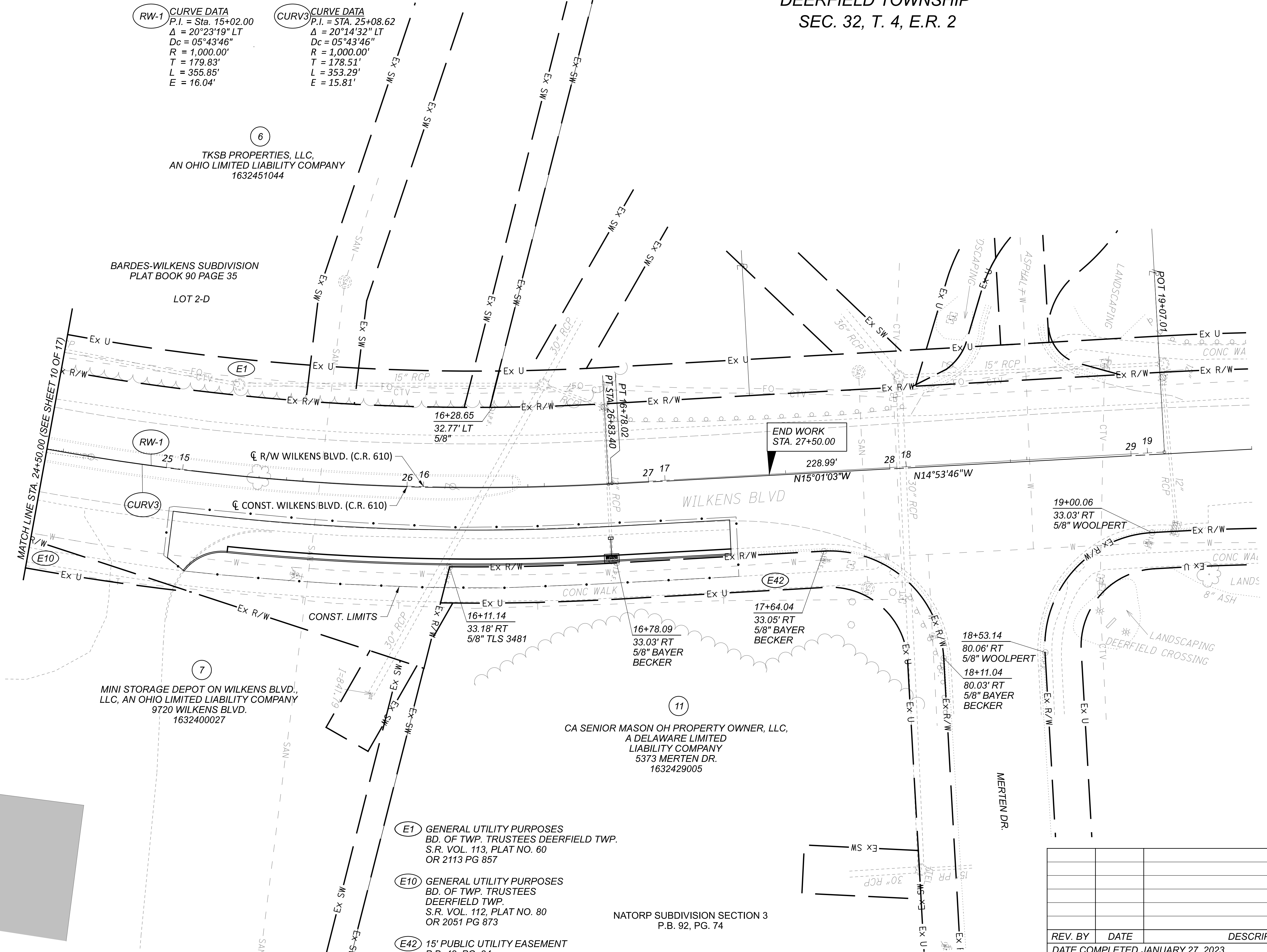
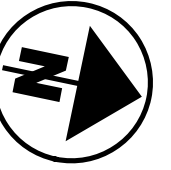
- E1** GENERAL UTILITY PURPOSES
BD. OF TWP. TRUSTEES DEERFIELD TWP.
S.R. VOL. 113, PLAT NO. 60
OR 2113 PG 857
- E9** PUBLIC UTILITY EASEMENT
(INCLUDES SIDEWALKS)
ALL PUBLIC SERVICE PROVIDERS
PB 52, PG 3-4
- E10** GENERAL UTILITY PURPOSES
BD. OF TWP. TRUSTEES
DEERFIELD TWP.
S.R. VOL. 112, PLAT NO. 80
OR 2051 PG 873

- R** R = 300.00'
L = 102.76'
Δ = 19°37'29"
CH BRG = S74°01'12"E
CH DIST = 102.25'
- S** NOT USED
- T** R = 967.00'
L = 35.88'
Δ = 02°07'32"
CH BRG = S04°15'59"W
CH DIST = 35.87'
- U** N84°37'44"W 24.03'
- V** N05°22'16"E, 45.07'
- W** N84°37'44"W, 7.00'

- A** N84°37'44"W, 14.00'
- B** S51°30'52"E, 12.22'
- C** S84°37'44"E, 7.00'
- D** N30°12'02"E 20.99'
- E** N03°43'09"E 17.14'
- F** S86°47'47"E 15.00'
- G** R = 47.00'
L = 57.42'
Δ = 70°00'00"
CH BRG = N29°38'52"W
CH DIST = 53.92'
- H** S84°37'44"E, 14.84'
- I** R = 58.00'
L = 19.89'
Δ = 19°39'03"
CH BRG = S15°58'17"E
CH DIST = 19.79'
- J** R = 135.50'
L = 60.00'
Δ = 25°22'12"
CH BRG = S38°28'54"E
CH DIST = 59.51'
- K** R = 91.50'
L = 42.34'
Δ = 26°30'38"
CH BRG = S37°54'41"E
CH DIST = 41.96'
- L** N64°38'52"W, 8.30'
- M** R = 1,033.00'
L = 13.45'
Δ = 00°44'46"
CH BRG = N04°58'45"E
CH DIST = 13.45'
- N** S85°21'51"E, 9.87'
- O** S84°37'44"E, 7.00'
- P** R = 300.00'
L = 33.71'
Δ = 06°26'15"
CH BRG = S67°25'35"E
CH DIST = 33.69'
(LEAD-IN FOR 4-T2)
- Q** N61°11'01"E 24.08'

REV. BY	DATE	DESCRIPTION
CAC	2/13/23	ADDED NOTE FOR 6-WD
DATE COMPLETED JANUARY 27, 2023		

WARREN COUNTY DEERFIELD TOWNSHIP SEC. 32, T. 4, E.R. 2



RW-1 CURVE DATA
 P.I. = Sta. 15+02.00
 $\Delta = 20^\circ 23' 19''$ LT
 $Dc = 05^\circ 43' 46''$
 $R = 1,000.00'$
 $T = 179.83'$
 $L = 355.85'$
 $E = 16.04'$

CURV3 CURVE DATA
 P.I. = STA. 25+08.62
 $\Delta = 20^\circ 14' 32''$ LT
 $Dc = 05^\circ 43' 46''$
 $R = 1,000.00'$
 $T = 178.51'$
 $L = 353.29'$
 $E = 15.81'$

6
 TKS PROPERTIES, LLC,
 AN OHIO LIMITED LIABILITY COMPANY
 1632451044

BARDES-WILKENS SUBDIVISION
 PLAT BOOK 90 PAGE 35

LOT 2-D

MATCH LINE STA. 24+50.00 (SEE SHEET 10 OF 17)

RW-1

CURV3

7

MINI STORAGE DEPOT ON WILKENS BLVD.,
 LLC, AN OHIO LIMITED LIABILITY COMPANY
 9720 WILKENS BLVD.
 1632400027

11
 CA SENIOR MASON OH PROPERTY OWNER, LLC,
 A DELAWARE LIMITED LIABILITY COMPANY
 5373 MERTEN DR.
 1632429005

E1 GENERAL UTILITY PURPOSES
 BD. OF TWP. TRUSTEES DEERFIELD TWP.
 S.R. VOL. 113, PLAT NO. 60
 OR 2113 PG 857

E10 GENERAL UTILITY PURPOSES
 BD. OF TWP. TRUSTEES DEERFIELD TWP.
 S.R. VOL. 112, PLAT NO. 80
 OR 2051 PG 873

E42 15' PUBLIC UTILITY EASEMENT
 P.B. 48, PG. 34

NATORP SUBDIVISION SECTION 3
 P.B. 92, PG. 74

END WORK
 STA. 27+50.00

REV. BY	DATE	DESCRIPTION
DATE COMPLETED JANUARY 27, 2023		

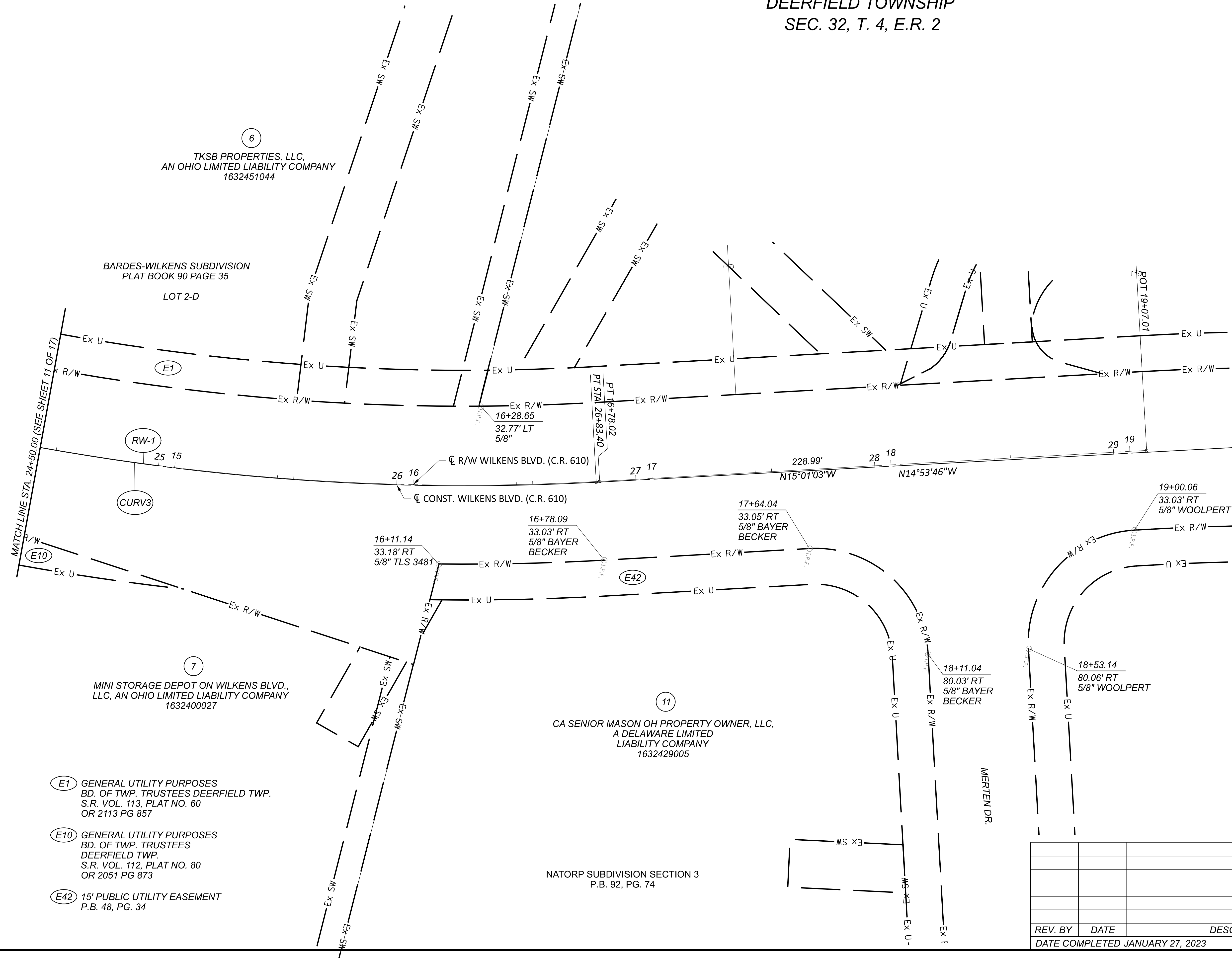
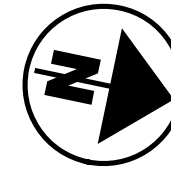
RW TOPO SHEET - WILKENS BLVD.
 STA. 24+50 TO END WORK

DESIGN AGENCY

 WSP USA, Inc.
 312 Elm Street,
 Suite 2500
 Cincinnati, OH 45202

DESIGNER	CAC
REVIEWER	MKS 07-18-22
PROJECT ID	29076
SUBSET	TOTAL
12	17
SHEET	TOTAL
P.0	0

WARREN COUNTY
DEERFIELD TOWNSHIP
SEC. 32, T. 4, E.R. 2



6
TKSB PROPERTIES, LLC,
AN OHIO LIMITED LIABILITY COMPANY
1632451044

BARDES-WILKENS SUBDIVISION
PLAT BOOK 90 PAGE 35
LOT 2-D

RW-1
CURV3

7
MINI STORAGE DEPOT ON WILKENS BLVD.,
LLC, AN OHIO LIMITED LIABILITY COMPANY
1632400027

11
CA SENIOR MASON OH PROPERTY OWNER, LLC,
A DELAWARE LIMITED
LIABILITY COMPANY
1632429005

NATORP SUBDIVISION SECTION 3
P.B. 92, PG. 74

(E1) GENERAL UTILITY PURPOSES
BD. OF TWP. TRUSTEES DEERFIELD TWP.
S.R. VOL. 113, PLAT NO. 60
OR 2113 PG 857

(E10) GENERAL UTILITY PURPOSES
BD. OF TWP. TRUSTEES
DEERFIELD TWP.
S.R. VOL. 112, PLAT NO. 80
OR 2051 PG 873

(E42) 15' PUBLIC UTILITY EASEMENT
P.B. 48, PG. 34

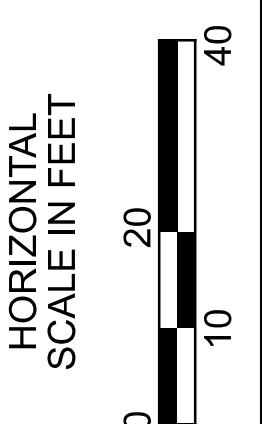
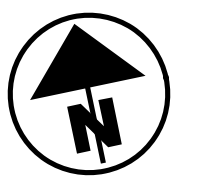
REV. BY	DATE	DESCRIPTION
DATE COMPLETED JANUARY 27, 2023		

R/W BOUNDARY SHEET - WILKENS BLVD.
STA. 24+50 TO END WORK

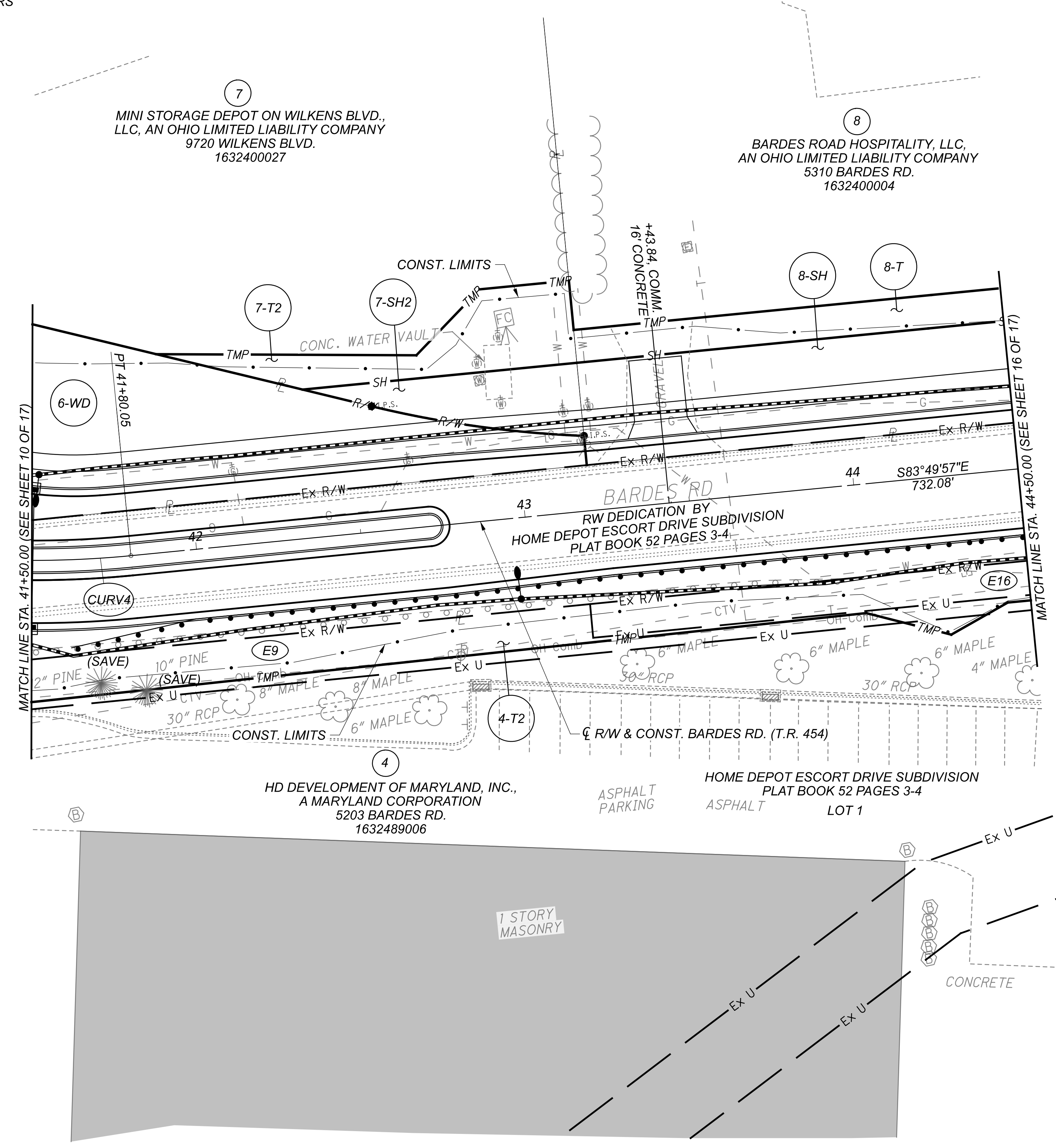
DESIGN AGENCY
WSP
WSP USA, Inc.
312 Elm Street,
Suite 2500
Cincinnati, OH 45202

DESIGNER	CAC
REVIEWER	MKS 07-18-22
PROJECT ID	29076
SUBSET	TOTAL
13	17
SHEET	TOTAL
P.0	0

WARREN COUNTY
 DEERFIELD TOWNSHIP
 SEC. 32, T. 4, E.R. 2



- (E9) PUBLIC UTILITY EASEMENT
 (INCLUDES SIDEWALKS)
 ALL PUBLIC SERVICE PROVIDERS
 PB 52, PG 3-4
- (E16) 15' EASEMENT
 THE CINCINNATI GAS &
 ELECTRIC COMPANY
 FORMER REGISTERED
 LAND DEEDS
 VOL 1, PG 513
- (6) TKS B PROPERTIES, LLC,
 AN OHIO LIMITED
 LIABILITY COMPANY
 1632400026



(CURV4) CURVE DATA
 P.I. = Sta. 41+29.18
 $\Delta = 19^\circ 37' 29''$ LT
 $Dc = 19^\circ 05' 55''$
 $R = 300.00'$
 $T = 51.89'$
 $L = 102.76'$
 $E = 4.45'$

R/W TOPO SHEET - BARDES RD.
 STA. 41+50 TO STA. 44+50

DESIGN AGENCY

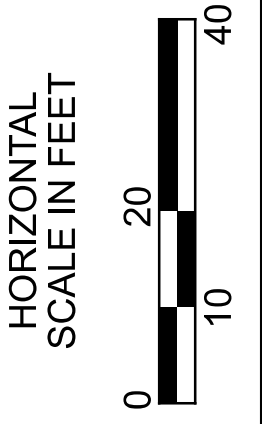
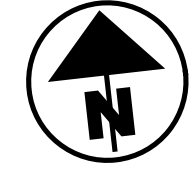
 WSP USA, Inc.
 312 Elm Street,
 Suite 2500
 Cincinnati, OH 45202

DESIGNER	CAC
REVIEWER	MKS 07-18-22
PROJECT ID	29076
SUBSET	TOTAL
14	17
SHEET	TOTAL
P.0	0

REV. BY	DATE	DESCRIPTION

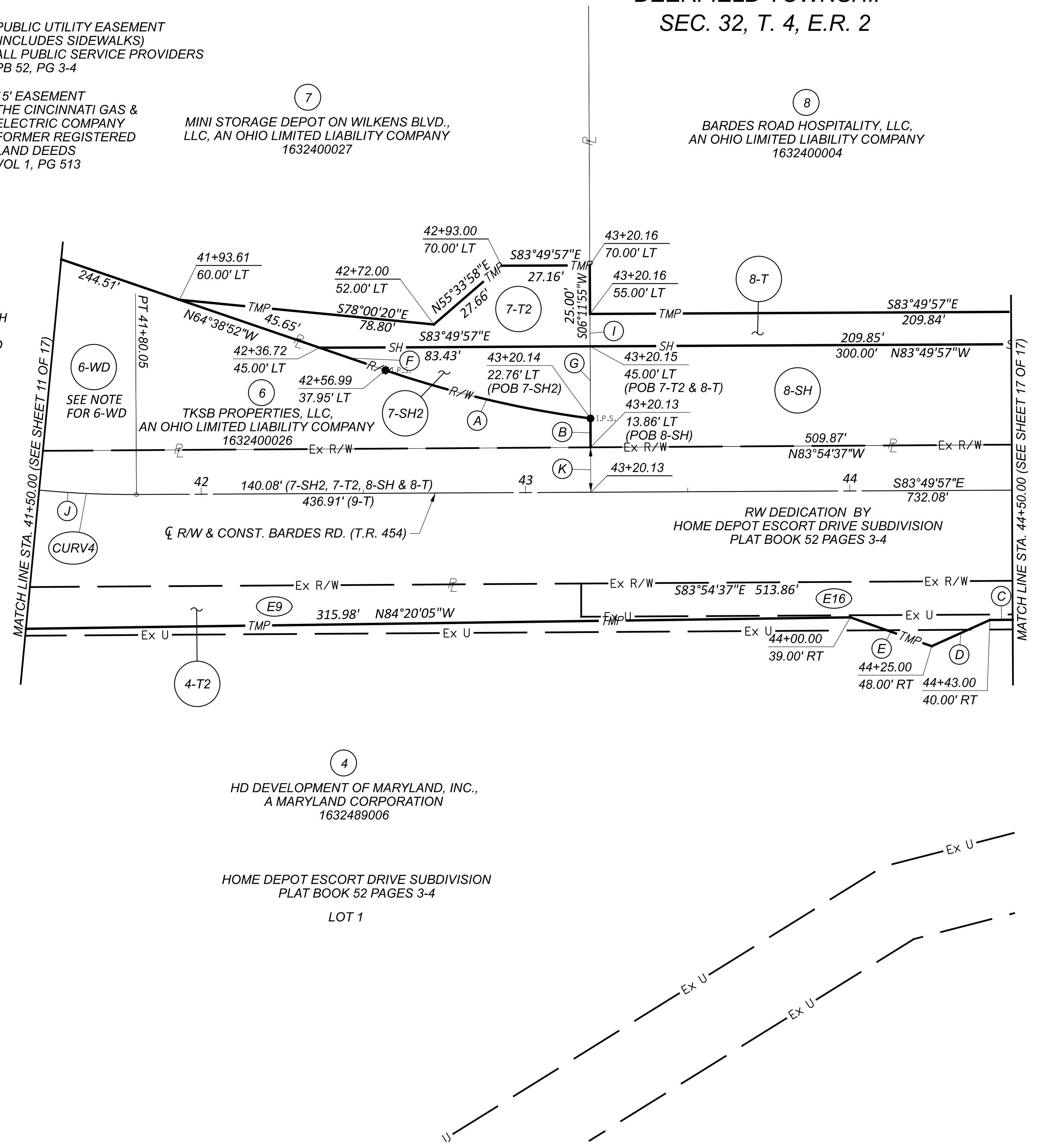
DATE COMPLETED JANUARY 27, 2023

WARREN COUNTY
 DEERFIELD TOWNSHIP
 SEC. 32, T. 4, E.R. 2



- (E9) PUBLIC UTILITY EASEMENT
 (INCLUDES SIDEWALKS)
 ALL PUBLIC SERVICE PROVIDERS
 PB 52, PG 3-4
- (E16) 15' EASEMENT
 THE CINCINNATI GAS &
 ELECTRIC COMPANY
 FORMER REGISTERED
 LAND DEEDS
 VOL 1, PG 513

NOTE FOR 6-WD:
 THE BOUNDS FOR PARCEL 6-WD PER DEED RECORDED IN OR
 VOLUME DEED 4135 PAGE 198 DESCRIBES ITS SOUTH LINE TO BE
 COMMON WITH THE NORTH RIGHT OF WAY OF BARDES ROAD PER
 THE HOME DEPOT ESCORT DRIVE SUBDIVISION PLAT FILED IN PLAT
 BOOK 52, PAGE 3 AND 4. THE NORTH LINE OF BARDES ROAD WAS
 ESTABLISHED UPON FIELD RECOVERED MONUMENTATION SHOWN
 ON THE HOME DEPOT SUBDIVISION PLAT. DUE TO LACK OF FIELD
 EVIDENCE FOR PARCEL 6 IT WAS LOCATED BASED UPON RECOVERED
 MONUMENTS FROM NATORP SUBDIVISION PLAT BOOK 92, PAGE 74
 AND SURROUNDING PARCELS, CREATING A GAP BETWEEN THE NORTH
 LINE OF BARDES ROAD BETWEEN THE DEED LOCATION AND THE
 PLATTED LOCATION. THE EAST LINE OF PARCEL 6-WD WAS EXTENDED
 TO ITS INTERSECTION WITH THE NORTH LINE OF BARDES ROAD AS IT
 WAS DEDICATED VIA THE HOME DEPOT PLAT. NO NEW DESCRIPTION
 PREPARED FOR 6-WD.



- (A) R = 329.00'
 L = 65.06'
 Δ = 11°19'46"
 CH BRG = N70°18'45"W
 CH DIST = 64.95'
- (B) N06°11'55"E, 8.91'
- (C) N83°49'57"W, 73.00'
- (D) S72°12'18"W, 19.70'
- (E) N64°02'01"W, 26.57'
- (F) N64°38'52"W, 21.46'
- (G) S06°11'55"W, 22.24'
- (H) NOT USED
- (I) N06°11'55"E, 10.00'
- (J) R = 300.00'
 L = 102.76'
 Δ = 19°37'29"
 CH BRG = S74°01'12"E
 CH DIST = 102.25'
- (K) N06°10'03"E, 13.86'

(CURV4) CURVE DATA
 P.I. = Sta. 41+29.18
 Δ = 19°37'29" RT
 Dc = 19°05'55"
 R = 300.00'
 T = 51.89'
 L = 102.76'
 E = 4.45'

R/W BOUNDARY SHEET - BARDES RD.
 STA. 41+50 TO STA. 44+50

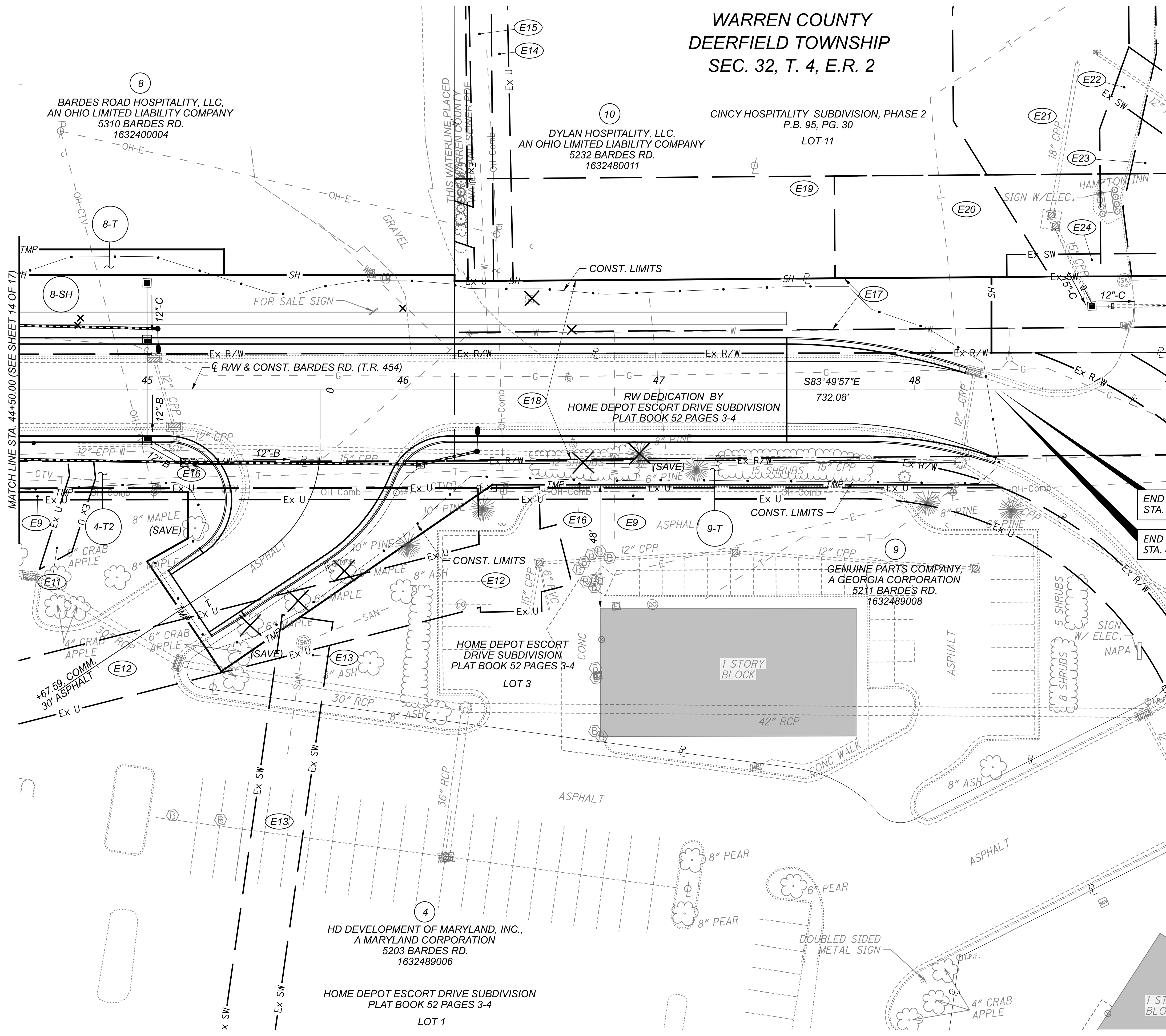
DESIGN AGENCY

 WSP USA, Inc.
 312 Elm Street,
 Suite 2500
 Cincinnati, OH 45202

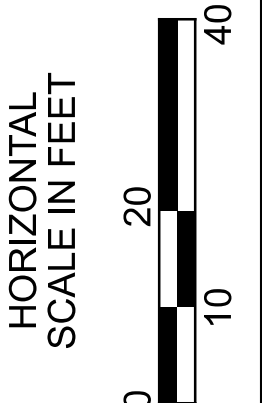
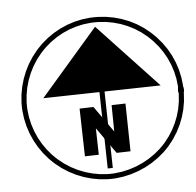
DESIGNER	CAC
REVIEWER	MKS 07-18-22
PROJECT ID	29076
SUBSET	15
TOTAL	17
SHEET	P.0
TOTAL	0

REV. BY	DATE	DESCRIPTION
CAC	2/13/23	ADDED NOTE FOR 6-WD
DATE COMPLETED JANUARY 27, 2023		

WARREN COUNTY
 DEERFIELD TOWNSHIP
 SEC. 32, T. 4, E.R. 2



- (E9) PUBLIC UTILITY EASEMENT (INCLUDES SIDEWALKS) ALL PUBLIC SERVICE PROVIDERS PB 52, PG 3-4
- (E11) GAS LINE EASEMENT CINCINNATI MICROWAVE, INC. OR 219, PG 764
- (E12) ELECTRIC EASEMENT THE CINCINNATI GAS & ELECTRIC COMPANY OR 117, PG 362
- (E13) 20' SANITARY SEWER EASEMENT WARREN COUNTY SANITARY ENGINEER PB 52, PG 3-4
- (E14) 15' EASEMENT THE CINCINNATI GAS & ELECTRIC COMPANY R.L. DEEDS 2, PG 151
- (E15) PUBLIC WATER EASEMENT PB 95, PG 30
- (E16) 15' EASEMENT THE CINCINNATI GAS & ELECTRIC COMPANY FORMER REGISTERED LAND DEEDS VOL 1, PG 513
- (E17) 20' STREET & UTILITY EASEMENT R.L. DEEDS 2, PG 103
- (E18) 70' STREET & UTILITY EASEMENT R.L. DEEDS 2, PG 69
- (E19) 40' PUBLIC WATER EASEMENT PB 95, PG 30
- (E20) SIGN EASEMENT PB 95, PG 30
- (E21) PRIVATE DETENTION EASEMENT PB 95, PG 30
- (E22) 20' PRIVATE STORM SEWER EASEMENT PB 95, PG 30
- (E23) INGRESS/EGRESS EASEMENT PB 95, PG 30
- (E24) PUBLIC SANITARY SEWER EASEMENT PB 95, PG 30



RW TOPO SHEET - BARDES RD.
 STA. 44+50 TO END WORK

END WORK
 STA. 48+33.19

END RW ACQUISITION
 STA. 48+31.02

DESIGN AGENCY		WSP	
DESIGNER		CAC	
REVIEWER		MKS 07-18-22	
PROJECT ID		29076	
SUBSET	TOTAL	16	17
SHEET	TOTAL	P.0	0

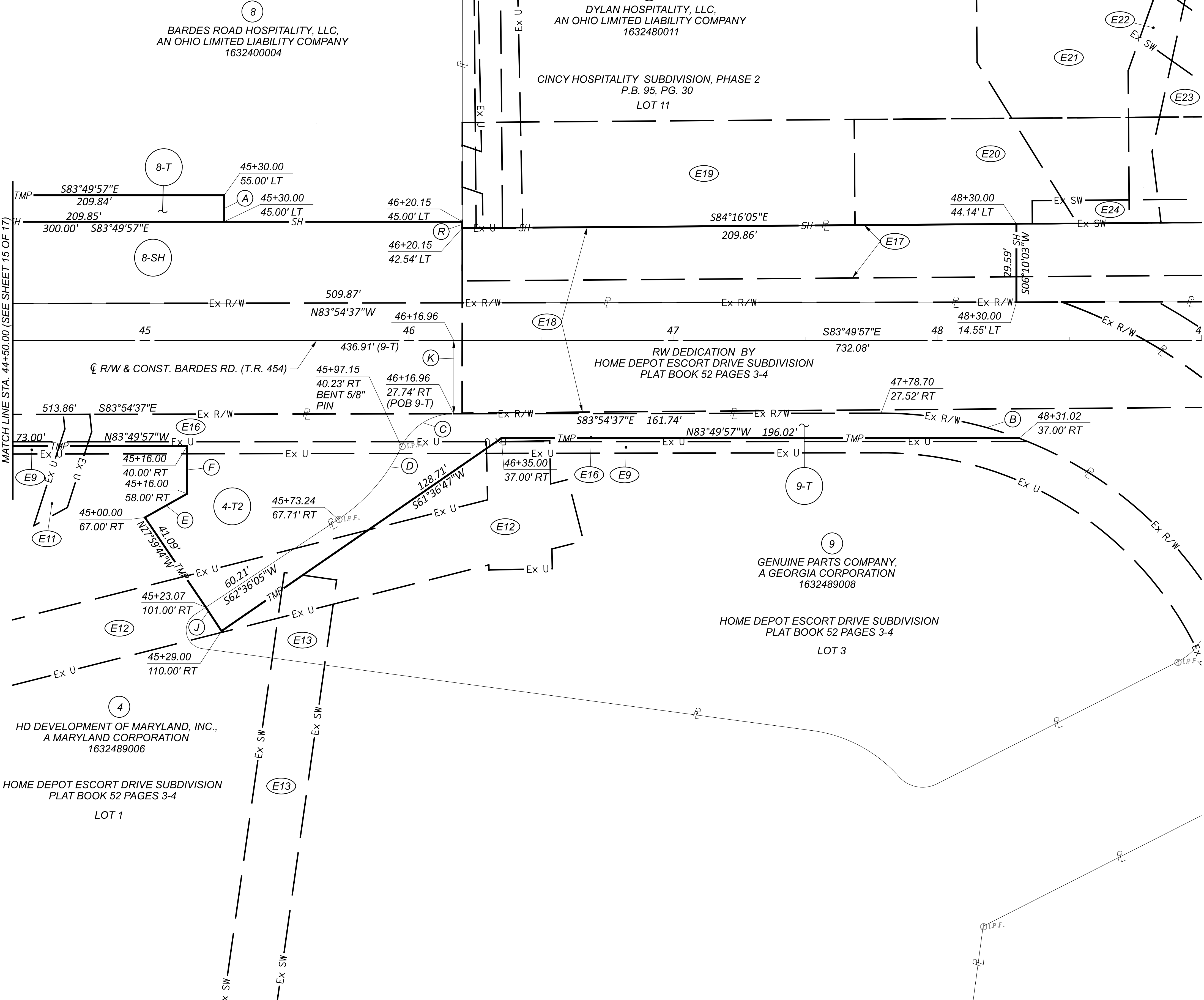
REV. BY	DATE	DESCRIPTION

DATE COMPLETED JANUARY 27, 2023

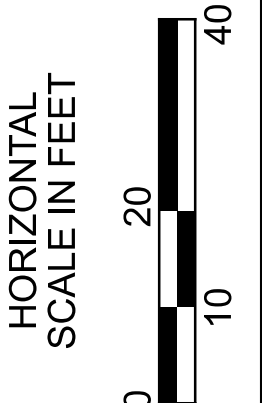
WAR-C.R. 610-0.15

MODEL: 29076.RB102 PAPER SIZE: 34x42 (in.) DATE: 1/27/2023 TIME: 15:23:38 PM USER: Cofffield
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WARREN COUNTY DEERFIELD TOWNSHIP SEC. 32, T. 4, E.R. 2



- (A) S06°10'03"W, 10.00'
- (B) R = 148.00'
L = 53.47'
Δ = 20°41'56"
CH BRG = S73°33'39"E
CH DIST = 53.18'
- (C) R = 22.00'
L = 24.70'
Δ = 64°19'06"
CH BRG = S63°55'44"W
CH DIST = 23.42'
- (D) R = 68.50'
L = 36.86'
Δ = 30°50'01"
CH BRG = S47°11'05"W
CH DIST = 36.42'
- (E) N66°48'35"E, 18.36'
- (F) N06°10'03"E, 18.00'
- (G) S83°49'57"E, 12.00'
- (J) N27°11'35"W, 10.78'
- (K) S06°10'03"W, 27.74'
- (Q) NOT USED
- (R) S06°12'05"W, 2.46'
- (E9) PUBLIC UTILITY EASEMENT
(INCLUDES SIDEWALKS)
ALL PUBLIC SERVICE PROVIDERS
PB 52, PG 3-4
- (E11) GAS LINE EASEMENT
CINCINNATI MICROWAVE, INC.
OR 219, PG 764
- (E12) ELECTRIC EASEMENT
THE CINCINNATI GAS &
ELECTRIC COMPANY
OR 117, PG 362
- (E13) 20' SANITARY
SEWER EASEMENT
WARREN COUNTY
SANITARY ENGINEER
PB 52, PG 3-4
- (E14) 15' EASEMENT
THE CINCINNATI GAS &
ELECTRIC COMPANY
R.L. DEEDS 2, PG 151
- (E15) PUBLIC WATER EASEMENT
PB 95, PG 30
- (E16) 15' EASEMENT
THE CINCINNATI GAS &
ELECTRIC COMPANY
FORMER REGISTERED
LAND DEEDS
VOL 1, PG 513
- (E17) 20' STREET &
UTILITY EASEMENT
R.L. DEEDS 2, PG 103
- (E18) 70' STREET &
UTILITY EASEMENT
R.L. DEEDS 2, PG 69
- (E19) 40' PUBLIC
WATER EASEMENT
PB 95, PG 30
- (E20) SIGN EASEMENT
PB 95, PG 30
- (E21) PRIVATE DETENTION
EASEMENT
PB 95, PG 30
- (E22) 20' PRIVATE STORM
SEWER EASEMENT
PB 95, PG 30
- (E23) INGRESS/EGRESS
EASEMENT
PB 95, PG 30
- (E24) PUBLIC SANITARY
SEWER EASEMENT
PB 95, PG 30



RW BOUNDARY SHEET - BARDES RD.
STA. 44+50 TO END WORK

DESIGN AGENCY
WSP
WSP USA, Inc.
312 Elm Street,
Suite 2500
Cincinnati, OH 45202

DESIGNER	CAC
REVIEWER	MKS 07-18-22
PROJECT ID	29076
SUBSET	17 TOTAL 17
SHEET	P.0 TOTAL 0

REV. BY	DATE	DESCRIPTION
DATE COMPLETED JANUARY 27, 2023		