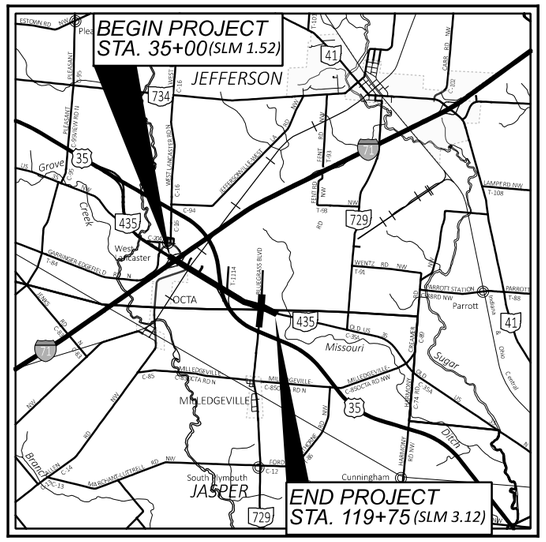
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
FAY-435-1.52
BU5 – SR 435 EAST WIDENING (ASPHALT) ROUNDABOUT/US 35 RAMP D (BU-5)

VILLAGE OF OCTA
JEFFERSON TOWNSHIP
JASPER TOWNSHIP
FAYETTE COUNTY



LOCATION MAP

LATITUDE: 39°36'52" N LONGITUDE: 83°35'50" W

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

DESIGN DESIGNATION

FOR DESIGN DESIGNATIONS, REFER TO SHEET P. 2

DESIGN EXCEPTIONS

DESIGN FEATURE	*APPROVAL DATE*	*SHEET NUMBERS*
BRIDGE LOADING	*12/22/2022*	*P.244*

ADA DESIGN WAIVERS

NONE REQUIRED

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FEDERAL PROJECT NUMBER

NON-FEDERAL

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

THE PROJECT WILL MAKE IMPROVEMENTS TO SR-435, I-71 INTERCHANGE RAMPS AT SR-435, AND THE US-35 EXIT RAMP AT SR-435 IN FAYETTE COUNTY WITH PAVEMENT WIDENING, RESURFACING, AND OTHER WORK AS REQUIRED.

REMOVE, REDESIGN, AND REPLACE THE EXISTING SIGNALS AT SR-435/I-71 SB RAMPS, SR-435/I-71 NB RAMPS, AND SR-435/ALLEN RD. DESIGN AND INSTALL A NEW SIGNAL AT SR-435/US-35 WB EXIT RAMP TO SR-435.

REMOVE THE TEMPORARY SIGNAL AT THE AT SR-435/BLUEGRASS BLVD/SR-729 INTERSECTION. DESIGN AND CONSTRUCT A ROUNDABOUT INTERSECTION.

EARTH DISTURBED AREAS (BU-4)

PROJECT EARTH DISTURBED AREA:	*17.1 ACRES*
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	*1.6 ACRES*
NOTICE OF INTENT EARTH DISTURBED AREA:	*18.7 ACRES*
NOTICE OF INTENT EARTH DISTURBED AREA: (TOTAL PROJECT BU-4/BU-5)	*23.7 ACRES*

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND I-71 HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2023 SPECIFICATIONS

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

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT AS NOTED ON SHEET P. 71, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

Anthony C. Turowski, P.E.
District 06 Deputy Director

Jack Marchbanks, PhD
Director, Department of Transportation

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

PLAN PREPARED BY:
PALMER ENGINEERING
8350 EAST KEMPER RD - SUITE B
CINCINNATI, OH 45249
WINCHESTER • NASHVILLE • LOUISVILLE • CINCINNATI • AKRON • TALLAHASSEE • ORLANDO

ENGINEER'S SEAL

STATE OF OHIO
DANIEL PAUL FICKER
E-63916
REGISTERED PROFESSIONAL ENGINEER

STANDARD CONSTRUCTION DRAWINGS

BP-1.1	*7/28/00*	*MGS-1.1*	*7/16/21*	*MT-95.30*	*7/19/19*			*800-2023*	*4/21/2023*
BP-2.1	*1/21/22*	*MGS-2.1*	*1/19/18*	*MT-95.31*	*7/19/19*			*821*	*4/20/12*
BP-2.2	*1/15/21*	*MGS-3.1*	*1/19/18*	*MT-95.32*	*4/19/19*			*832*	*7/15/22*
BP-3.1	*1/21/22*	*MGS-5.3*	*7/15/16*	*MT-97.10*	*4/19/19*			*848*	*1/15/21*
BP-4.1	*7/19/13*	*MGS-6.1*	*1/19/18*	*MT-97.12*	*1/20/17*			*921*	*4/20/12*
BP-5.1	*7/15/22*			*MT-98.20*	*4/19/19*				
		WQ-1.1	*1/18/13*	*MT-98.21*	*1/17/20*				
CB-2-3, 2-4	*1/20/23*	*WQ-1.2*	*1/15/16*	*MT-101.60*	*4/21/23*				
CB-3A	*7/16/21*			*MT-101.70*	*4/21/23*				
				MT-101.75	*1/17/20*				
DM-1.1	*7/17/20*	*AS-1-15*	*1/20/23*	*MT-101.90*	*7/17/20*				
DM-1.2	*7/16/21*			*MT-105.10*	*1/17/20*				
DM-4.3	*1/15/16*			*MT-120.00*	*1/20/23*				
DM-4.4	*1/15/16*								

SUPPLEMENTAL SPECIFICATIONS

SPECIAL PROVISIONS

FAY-117955-SP
8/16/23

BU-5 RFC
5/30/2024

BU-5 SR 435 EAST WIDENING(ASPHALT)/ROUNDABOUT/US 35 RAMP D		
NO.	*DATE*	*DESCRIPTION*
ISSUE RECORD		

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD. SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 1 TOTAL 246

TITLE SHEET

FAY-435-1.52

MODEL: Sheet_SurvFt PAPERSIZE: 17x11 (in.) DATE: 5/30/2024 TIME: 7:34:29 AM USER: dan-f
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DESIGN DESIGNATION

DESIGN DESIGNATION - SR-435 FROM PROJECT BEGINNING TO STA. 86+00

LOCATION:	SR-435
CURRENT ADT (2024):	18,680
DESIGN YEAR ADT (2044):	24,590
DESIGN HOURLY VOLUME:	3,580
DIRECTIONAL DISTRIBUTION:	68%
TRUCKS:	27%
DESIGN SPEED:	35 MPH (FROM BEGIN PROJECT TO STA. 63+78) 60 MPH (FROM STA. 63+78 TO 86+00)
LEGAL SPEED:	35 MPH (FROM BEGIN PROJECT TO STA. 63+78) 55 MPH (FROM STA. 63+78 TO 86+00)
DESIGN FUNCTIONAL CLASSIFICATION:	05 – MAJOR COLLECTOR (RURAL)
NHS:	NO

DESIGN DESIGNATION - SR-435 FROM STA. 86+00 TO END PROJECT

LOCATION:	SR-435
CURRENT ADT (2024):	8,110
DESIGN YEAR ADT (2044):	12,830
DESIGN HOURLY VOLUME:	2,280
DIRECTIONAL DISTRIBUTION:	68%
TRUCKS:	12%
DESIGN SPEED:	60 MPH
LEGAL SPEED:	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	05 – MAJOR COLLECTOR (RURAL)
NHS:	NO

DESIGN DESIGNATION – US-35 WB EXIT RAMP TO SR-435 (RAMP D)

LOCATION:	US-35 WB EXIT RAMP TO SR-435 (RAMP D)
CURRENT ADT (2024):	4,240
DESIGN YEAR ADT (2044):	7,280
DESIGN HOURLY VOLUME:	840
DIRECTIONAL DISTRIBUTION:	-
TRUCKS:	31%
DESIGN SPEED:	REFER TO L&D VOLUME 1 SECTION 503.2
LEGAL SPEED:	
DESIGN FUNCTIONAL CLASSIFICATION:	02 – OTHER FREEWAYS OR EXPRESSWAYS (RURAL)
NHS:	YES

DESIGN DESIGNATION – I-71 SB EXIT RAMP TO SR-435 (RAMP EN)

LOCATION:	I-71 SB EXIT RAMP TO SR-435 (RAMP EN)
CURRENT ADT (2024):	4,340
DESIGN YEAR ADT (2044):	5,150
DESIGN HOURLY VOLUME:	670
DIRECTIONAL DISTRIBUTION:	-
TRUCKS:	29%
DESIGN SPEED:	REFER TO L&D VOLUME 1 SECTION 503.2
LEGAL SPEED:	
DESIGN FUNCTIONAL CLASSIFICATION:	01 – INTERSTATE (RURAL)
NHS:	YES

DESIGN DESIGNATION – I-71 NB EXIT RAMP TO SR-435 (RAMP WS)

LOCATION:	I-71 NB EXIT RAMP TO SR-435 (RAMP WS)
CURRENT ADT (2024):	4,570
DESIGN YEAR ADT (2044):	5,250
DESIGN HOURLY VOLUME:	590
DIRECTIONAL DISTRIBUTION:	-
TRUCKS:	29%
DESIGN SPEED:	REFER TO L&D VOLUME 1 SECTION 503.2
LEGAL SPEED:	
DESIGN FUNCTIONAL CLASSIFICATION:	01 – INTERSTATE (RURAL)
NHS:	YES

DESIGN DESIGNATION – SR-435 TO I-71 SB ENTRANCE RAMP (RAMP NW)

LOCATION:	SR-435 TO I-71 SB ENTRANCE RAMP (RAMP NW)
CURRENT ADT (2024):	4,040
DESIGN YEAR ADT (2044):	4,350
DESIGN HOURLY VOLUME:	760
DIRECTIONAL DISTRIBUTION:	-
TRUCKS:	26%
DESIGN SPEED:	REFER TO L&D VOLUME 1 SECTION 503.2
LEGAL SPEED:	
DESIGN FUNCTIONAL CLASSIFICATION:	01 – INTERSTATE (RURAL)
NHS:	YES

DESIGN DESIGNATION – SR-729

LOCATION:	SR-729
CURRENT ADT (2024):	1,190
DESIGN YEAR ADT (2044):	3,090
DESIGN HOURLY VOLUME:	290
DIRECTIONAL DISTRIBUTION:	63%
TRUCKS:	16%
DESIGN SPEED:	60 MPH
LEGAL SPEED:	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	05 – MAJOR COLLECTOR (RURAL)
NHS:	NO

DESIGN DESIGNATION – BLUEGRASS BLVD

LOCATION:	BLUEGRASS BLVD
CURRENT ADT (2024):	8,280
DESIGN YEAR ADT (2044):	16,370
DESIGN HOURLY VOLUME:	2,380
DIRECTIONAL DISTRIBUTION:	73%
TRUCKS:	5%
DESIGN SPEED:	60 MPH
LEGAL SPEED:	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	07 – LOCAL ROAD (RURAL)
NHS:	NO

FAY-435-1.52
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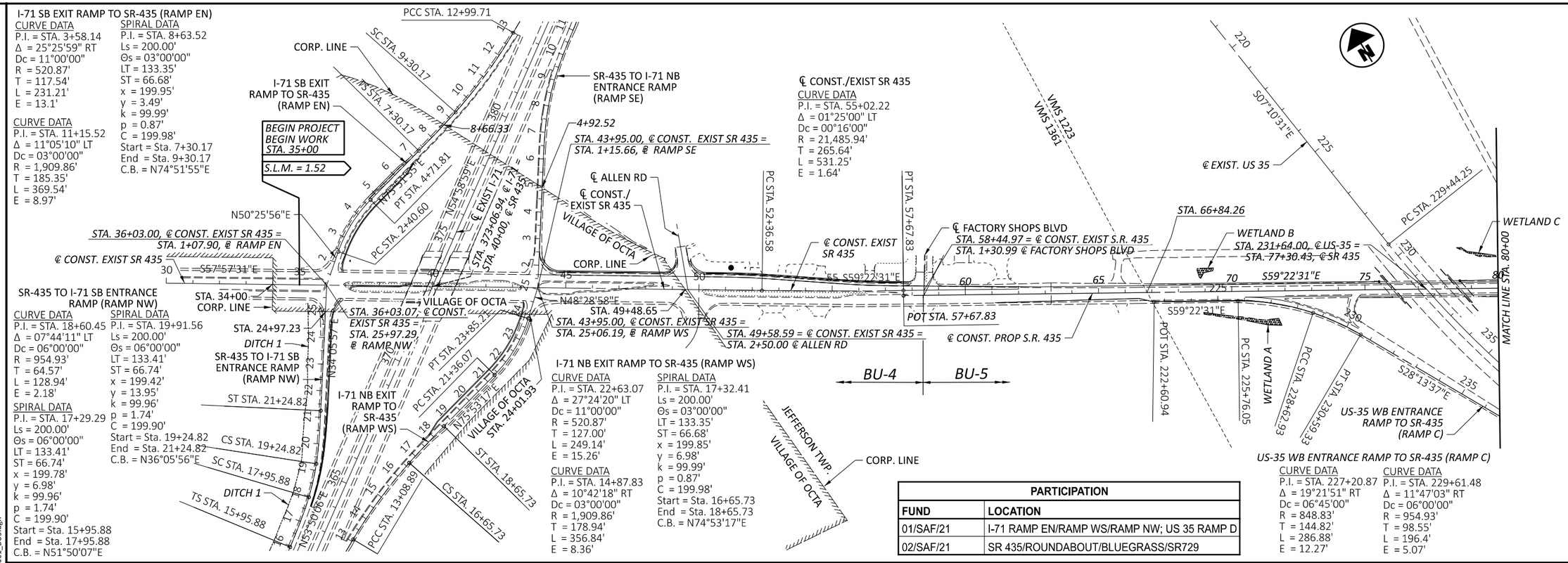
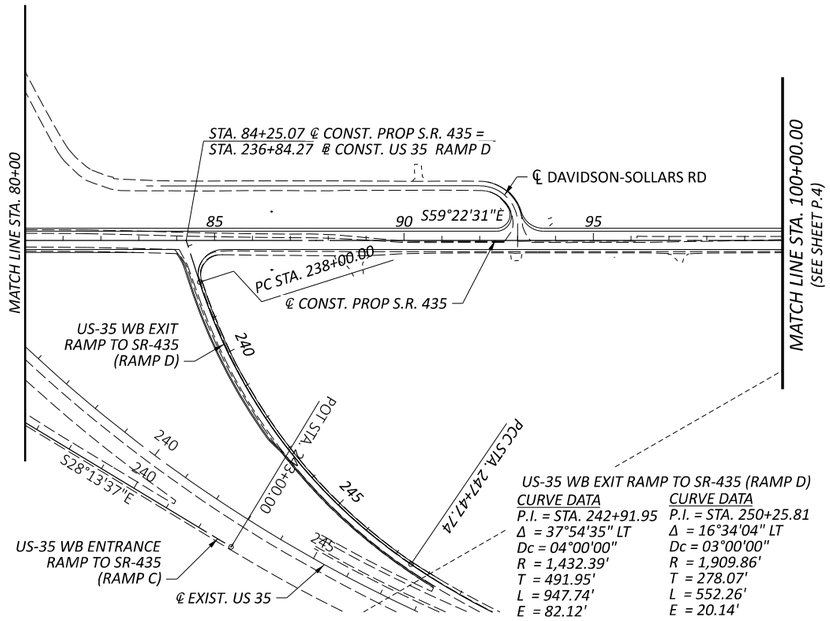
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 2 TOTAL 246



PARTICIPATION	
FUND	LOCATION
01/SAF/21	I-71 RAMP EN/RAMP WS/RAMP NW; US 35 RAMP D
02/SAF/21	SR 435/ROUNDABOUT/BLUEGRASS/SR729



PROJECT CONTROL POINTS

CONTROL POINT	NORTHING (GROUND)	EASTING (GROUND)	NORTHING (GRID)	EASTING (GRID)	ELEV	DESC	ALIGNMENT	STATION	OFFSET
100	589060.598	1661179.587	589000.873	1661011.160	1057.826	CNPT	CL EX. SR 435 EAST	93+50.16	35.424 LT
101	589227.624	1660770.483	589167.882	1660602.097	1058.615	CNPT	CL EX. SR 435 EAST	89+13.03	29.249 RT
102	591593.362	1657195.501	591533.380	1657027.478	1062.200	IPINS	CL EX. SR 435 WEST	46+28.56	126.827 LT
103	591770.163	1656878.193	591710.163	1656710.202	1055.282	IPINS	CL EX. SR 435 WEST	42+65.79	108.354 LT
104	591527.048	1657208.523	591467.073	1657040.499	1052.667	IPINS	CL EX. SR 435 WEST	46+74.78	77.523 LT
105	591011.712	1657962.657	590951.789	1657794.556	1057.412	IPINS	CL EX. SR 435 WEST	55+88.08	37.911 LT
106	587860.255	1664814.690	587800.652	1664645.894	1042.538	IPINS	CL EX. SR 435 EAST	132+41.19	19.8 LT
107	587750.060	1665287.998	587690.468	1665119.154	1043.693	IPINS	CL EX. SR 435 EAST	137+27.16	19.544 LT
108	592043.049	1656226.559	591983.022	1656058.634	1050.967	IPINS	CL EX. SR 435 WEST	35+68.65	6.042 RT
109	591734.331	1656733.798	591674.335	1656565.822	1053.921	CUT	CL EX. SR 435 WEST	41+62.41	1.374 LT
110	591819.274	1656582.369	591759.269	1656414.408	1053.016	CUT	CL EX. SR 435 WEST	39+88.98	6.96 RT
111	591875.533	1656482.875	591815.523	1656314.924	1052.677	CUT	CL EX. SR 435 WEST	38+74.80	12.056 RT
112	589720.142	1659871.972	589660.350	1659703.678	1060.310	MAGS	CL EX. SR 435 EAST	78+88.81	75.137 RT
113	589934.807	1659829.666	589874.994	1659661.376	1060.872	MAGS	CL EX. SR 435 EAST	77+43.06	88.036 LT
114	588716.808	1661757.924	588657.118	1661589.438	1051.835	IPID	CL EX. SR 435 EAST	100+23.09	34.174 LT
115	588621.386	1661814.142	588561.706	1661645.651	1052.643	MAGS	CL EX. SR 435 EAST	101+19.17	21.304 RT

PROJECT BENCHMARKS

BM	NORTHING (GROUND)	EASTING (GROUND)	NORTHING (GRID)	EASTING (GRID)	ELEV	DESC	ALIGNMENT	STATION	OFFSET
44217	591805.548	1656899.944	591745.545	1656731.951	1056.868	X-NOTCH IN CONC. BASE OF LIGHT POLE	CL EX. SR 435 WEST	42+65.46	149.9 LT
44218	589492.600	1660734.726	589432.831	1660566.344	1057.766	X-NOTCH ON CONC. PAD	CL EX. SR 435 EAST	87+47.28	180.6 LT
44223	589194.015	1660806.208	589134.277	1660637.819	1059.161	SPIKE IN POWER POLE	CL EX. SR 435 EAST	89+60.89	39.97 RT
44228	591352.006	1657508.258	591292.049	1657340.203	1057.081	X-NOTCH ON CONC. PAD	CL EX. SR 435 WEST	50+21.72	88.17 LT
45100	588528.210	1662146.140	588468.539	1661977.615	1049.862	ARROW BOLT ON FH	CL EX. SR 435 EAST	104+60.40	35.05 LT
46786	588688.868	1662621.578	588629.181	1662453.005	1048.534	X-NOTCH ON TOP OF HEADWALL	CL EX. SR 435 EAST	108+93.99	330.8 LT
48608	592018.586	1656552.286	591958.561	1656384.328	1051.464	X-NOTCH IN CONC. BASE OF LIGHT POLE	CL EX. SR 435 WEST	38+57.74	146 LT

SCHEMATIC PLAN - SR 435 (BU-5)

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD. SUITE B CINCINNATI,OH 45249 513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 3 TOTAL 246

FAY-435-1.52

MODEL: SHEET SR 435 West PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:28:18 PM USER: dan-f
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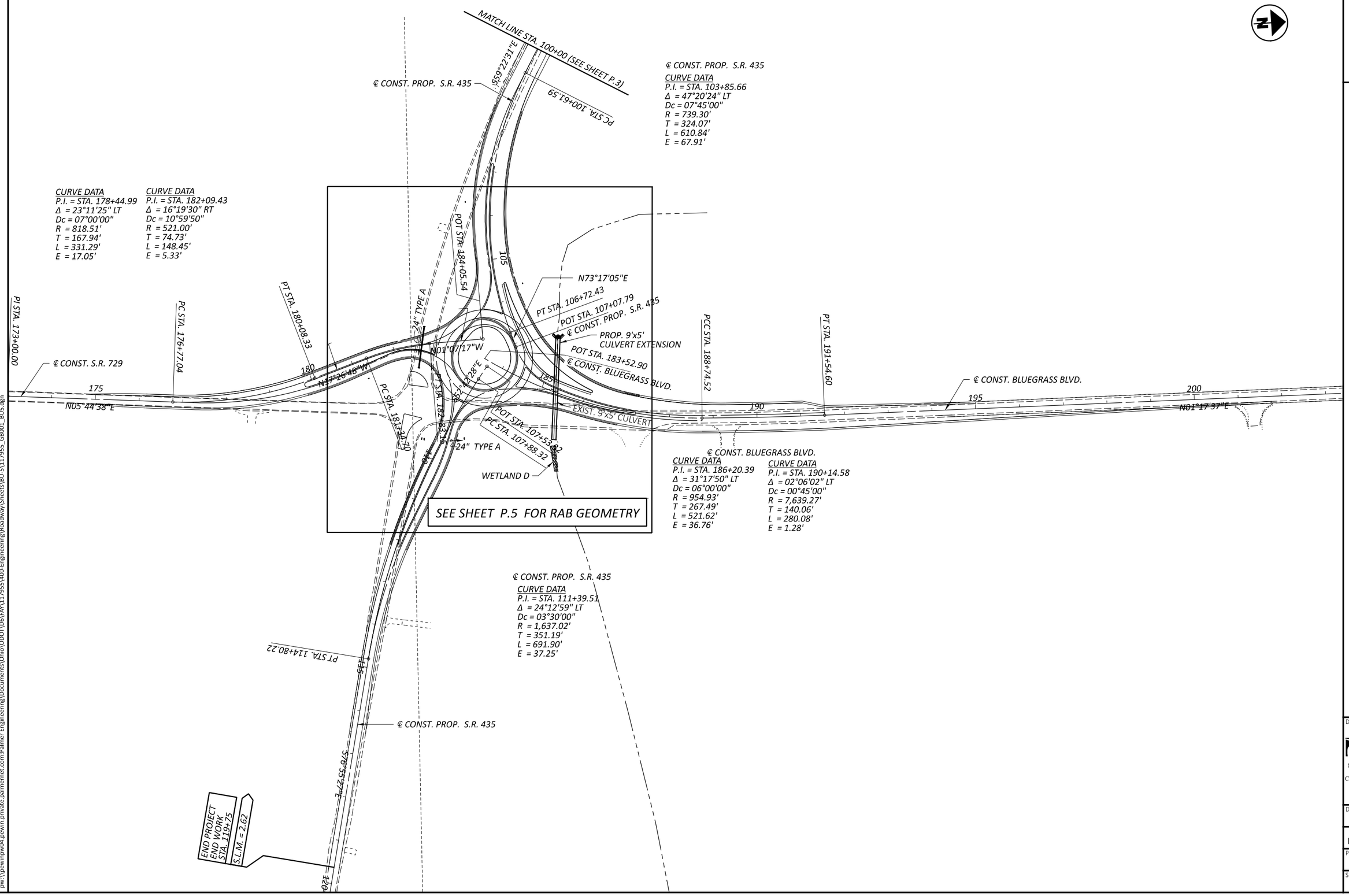

SCHEMATIC PLAN - SR729\BLUEGRASS (BU-5)

FAY-435-1.52

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DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 4 | TOTAL: 246

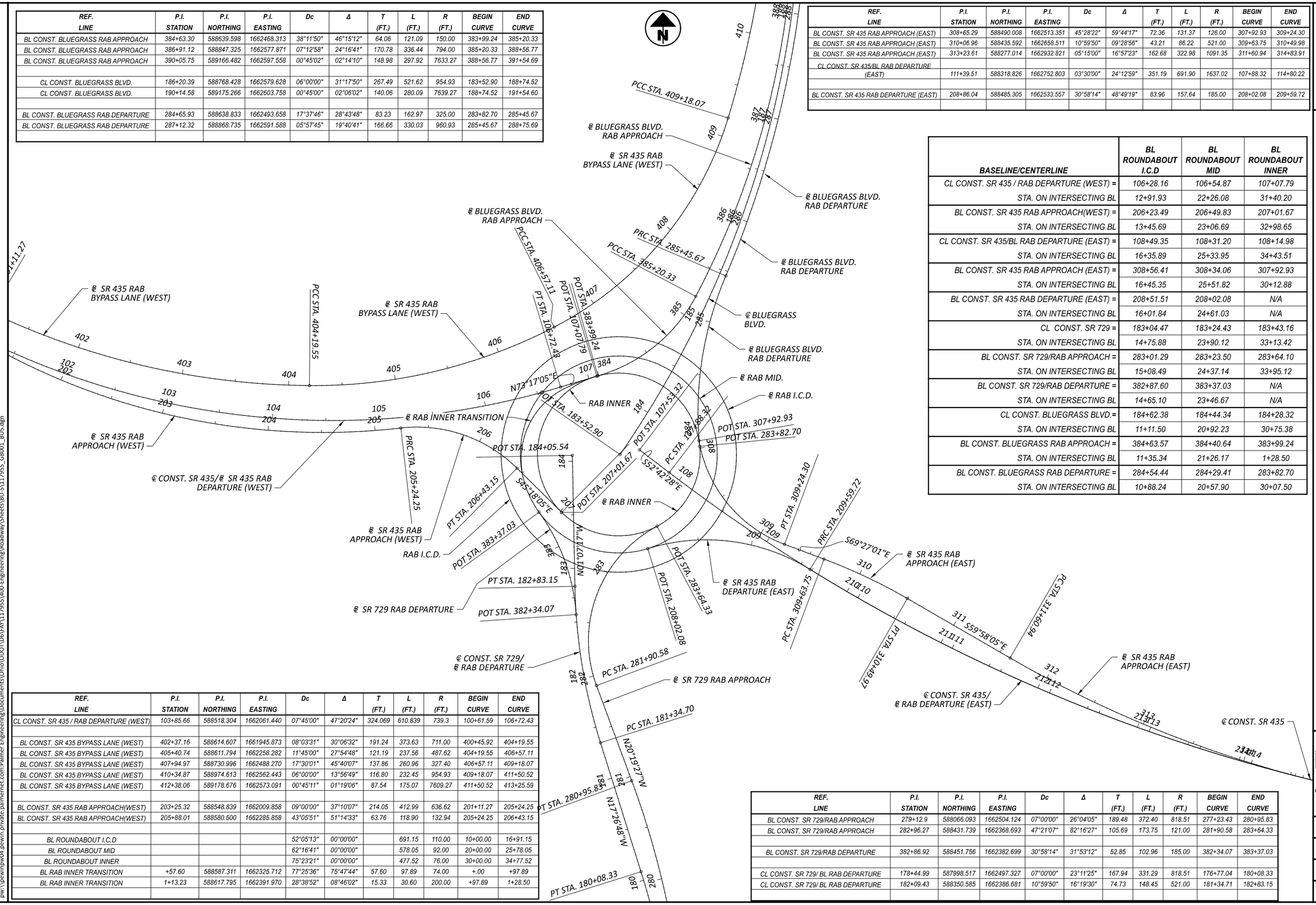
REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	Dc	Δ	T (FT.)	L (FT.)	R (FT.)	BEGIN CURVE	END CURVE
BL CONST. BLUEGRASS RAB APPROACH	384+63.30	588639.598	1662468.313	38°11'50"	46°15'12"	64.06	121.09	150.00	383+99.24	385+20.33
BL CONST. BLUEGRASS RAB APPROACH	386+91.12	588847.325	1662577.871	07°12'58"	24°16'41"	170.78	336.44	794.00	385+20.33	388+56.77
BL CONST. BLUEGRASS RAB APPROACH	390+05.75	589166.482	1662597.558	00°45'02"	02°14'10"	148.98	297.92	7633.27	388+56.77	391+54.69
CL CONST. BLUEGRASS BLVD.	186+20.39	588768.428	1662579.628	06°00'00"	31°17'50"	267.49	521.62	954.93	183+52.90	188+74.52
CL CONST. BLUEGRASS BLVD.	190+14.58	589175.266	1662603.758	00°45'00"	02°06'02"	140.06	280.09	7639.27	188+74.52	191+54.60
BL CONST. BLUEGRASS RAB DEPARTURE	284+65.93	588638.833	1662493.658	17°37'46"	28°43'48"	83.23	162.97	325.00	283+82.70	285+45.67
BL CONST. BLUEGRASS RAB DEPARTURE	287+12.32	588868.735	1662591.588	05°57'45"	19°40'41"	166.66	330.03	960.93	285+45.67	288+75.69

REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	Dc	Δ	T (FT.)	L (FT.)	R (FT.)	BEGIN CURVE	END CURVE
BL CONST. SR 435 RAB APPROACH (EAST)	308+65.29	588490.008	1662513.351	45°28'22"	59°44'17"	72.36	131.37	126.00	307+92.93	309+24.30
BL CONST. SR 435 RAB APPROACH (EAST)	310+06.96	588435.592	1662658.511	10°59'50"	09°28'56"	43.21	86.22	521.00	309+63.75	310+49.96
BL CONST. SR 435 RAB APPROACH (EAST)	313+23.61	588277.014	1662932.821	05°15'00"	16°57'23"	162.68	322.98	1091.35	311+60.94	314+83.91
CL CONST. SR 435/BL RAB DEPARTURE (EAST)	111+39.51	588318.826	1662752.803	03°30'00"	24°12'59"	351.19	691.90	1637.02	107+88.32	114+80.22
BL CONST. SR 435 RAB DEPARTURE (EAST)	208+86.04	588485.305	1662533.557	30°58'14"	48°49'19"	83.96	157.64	185.00	208+02.08	209+59.72

BASELINE/CENTERLINE	BL ROUNDABOUT I.C.D	BL ROUNDABOUT MID	BL ROUNDABOUT INNER
CL CONST. SR 435 / RAB DEPARTURE (WEST) =	106+28.16	106+54.87	107+07.79
STA. ON INTERSECTING BL	12+91.93	22+26.08	31+40.20
BL CONST. SR 435 RAB APPROACH(WEST) =	206+23.49	206+49.83	207+01.67
STA. ON INTERSECTING BL	13+45.69	23+06.69	32+98.65
CL CONST. SR 435/BL RAB DEPARTURE (EAST) =	108+49.35	108+31.20	108+14.98
STA. ON INTERSECTING BL	16+35.89	25+33.95	34+43.51
BL CONST. SR 435 RAB APPROACH (EAST) =	308+56.41	308+34.06	307+92.93
STA. ON INTERSECTING BL	16+45.35	25+51.82	30+12.88
BL CONST. SR 435 RAB DEPARTURE (EAST) =	208+51.51	208+02.08	N/A
STA. ON INTERSECTING BL	16+01.84	24+61.03	N/A
CL CONST. SR 729 =	183+04.47	183+24.43	183+43.16
STA. ON INTERSECTING BL	14+75.88	23+90.12	33+13.42
BL CONST. SR 729/RAB APPROACH =	283+01.29	283+23.50	283+64.10
STA. ON INTERSECTING BL	15+08.49	24+37.14	33+95.12
BL CONST. SR 729/RAB DEPARTURE =	382+87.60	383+37.03	N/A
STA. ON INTERSECTING BL	14+65.10	23+46.67	N/A
CL CONST. BLUEGRASS BLVD.=	184+62.38	184+44.34	184+28.32
STA. ON INTERSECTING BL	11+11.50	20+92.23	30+75.38
BL CONST. BLUEGRASS RAB APPROACH =	384+63.57	384+40.64	383+99.24
STA. ON INTERSECTING BL	11+35.34	21+26.17	1+28.50
BL CONST. BLUEGRASS RAB DEPARTURE =	284+54.44	284+29.41	283+82.70
STA. ON INTERSECTING BL	10+88.24	20+57.90	30+07.50

REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	Dc	Δ	T (FT.)	L (FT.)	R (FT.)	BEGIN CURVE	END CURVE
CL CONST. SR 435 / RAB DEPARTURE (WEST)	103+85.66	588518.304	1662061.440	07°45'00"	47°20'24"	324.069	610.839	739.3	100+61.59	106+72.43
BL CONST. SR 435 BYPASS LANE (WEST)	402+37.16	588614.607	1661945.873	08°03'31"	30°06'32"	191.24	373.63	711.00	400+45.92	404+19.55
BL CONST. SR 435 BYPASS LANE (WEST)	405+40.74	588611.794	1662258.282	11°45'00"	27°54'48"	121.19	237.56	487.62	404+19.55	406+57.11
BL CONST. SR 435 BYPASS LANE (WEST)	407+94.97	588730.996	1662488.270	17°30'01"	45°40'07"	137.86	260.96	327.40	406+57.11	409+18.07
BL CONST. SR 435 BYPASS LANE (WEST)	410+34.87	588974.613	1662562.443	06°00'00"	13°56'49"	116.80	232.45	954.93	409+18.07	411+50.52
BL CONST. SR 435 BYPASS LANE (WEST)	412+38.06	589178.676	1662573.091	00°45'11"	01°19'06"	87.54	175.07	7609.27	411+50.52	413+25.59
BL CONST. SR 435 RAB APPROACH(WEST)	203+25.32	588548.839	1662009.858	09°00'00"	37°10'07"	214.05	412.99	636.62	201+11.27	205+24.25
BL CONST. SR 435 RAB APPROACH(WEST)	205+88.01	588580.500	1662285.858	43°05'51"	51°14'33"	63.76	118.90	132.94	205+24.25	206+43.15
BL ROUNDABOUT I.C.D				52°05'13"	00°00'00"		691.15	110.00	10+00.00	16+91.15
BL ROUNDABOUT MID				62°16'41"	00°00'00"		578.05	92.00	20+00.00	25+78.05
BL ROUNDABOUT INNER				75°23'21"	00°00'00"		477.52	76.00	30+00.00	34+77.52
BL RAB INNER TRANSITION	+57.60	588587.311	1662325.712	77°25'36"	75°47'44"	57.60	97.89	74.00	+.00	+97.89
BL RAB INNER TRANSITION	1+13.23	588617.795	1662391.970	28°38'52"	08°46'02"	15.33	30.60	200.00	+97.89	1+28.50

REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	Dc	Δ	T (FT.)	L (FT.)	R (FT.)	BEGIN CURVE	END CURVE
BL CONST. SR 729/RAB APPROACH	279+12.9	588066.093	1662504.124	07°00'00"	26°04'05"	189.48	372.40	818.51	277+23.43	280+95.83
BL CONST. SR 729/RAB APPROACH	282+96.27	588431.739	1662368.693	47°21'07"	82°16'27"	105.69	173.75	121.00	281+90.58	283+64.33
BL CONST. SR 729/RAB DEPARTURE	382+86.92	588451.756	1662382.699	30°58'14"	31°53'12"	52.85	102.96	185.00	382+34.07	383+37.03
CL CONST. SR 729/ BL RAB DEPARTURE	178+44.99	587998.517	1662497.327	07°00'00"	23°11'25"	167.94	331.29	818.51	176+77.04	180+08.33
CL CONST. SR 729/ BL RAB DEPARTURE	182+09.43	588350.585	1662386.681	10°59'50"	16°19'30"	74.73	148.45	521.00	181+34.71	182+83.15



HORIZONTAL SCALE IN FEET
0 20 40 80

ROUNDABOUT GEOMETRIC LAYOUT

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD. SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P:5 TOTAL 246

FAY-435-1.52

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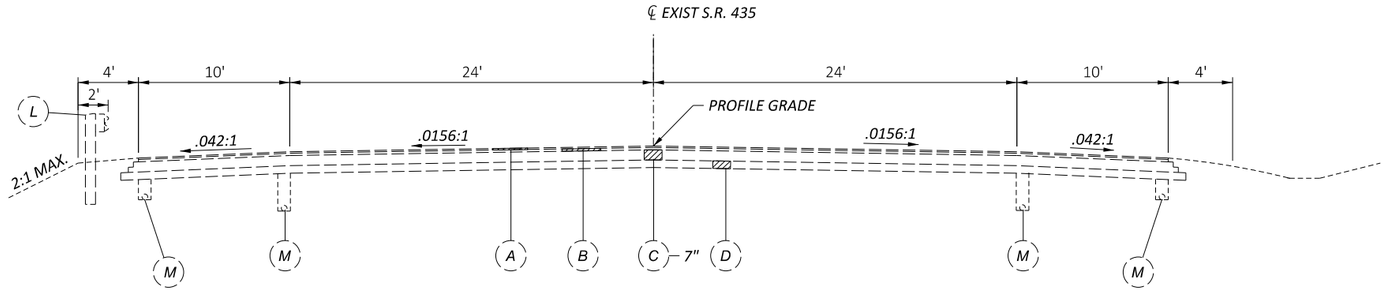
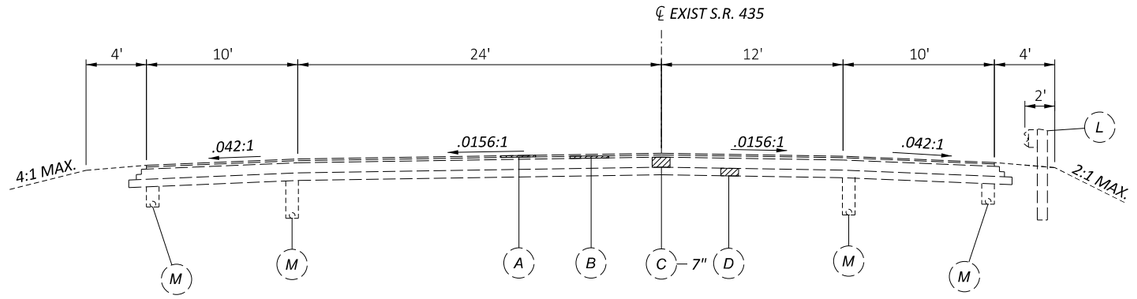
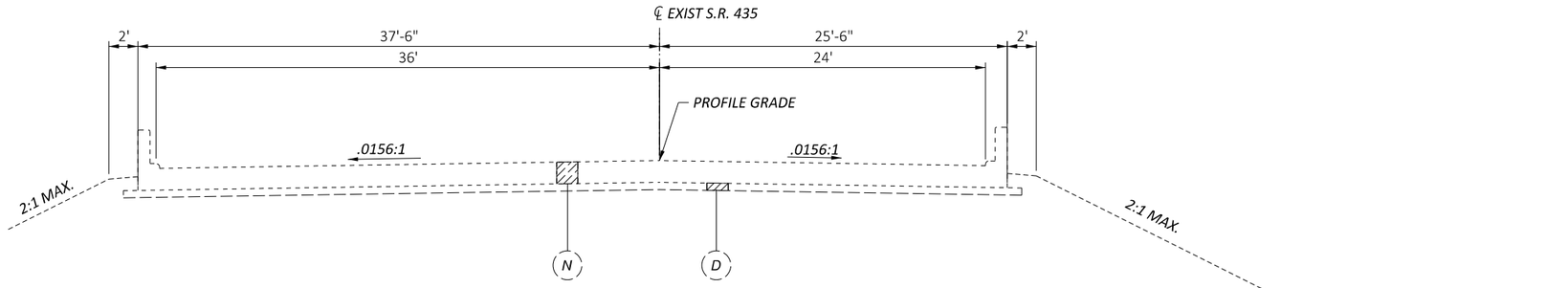


EXISTING TYPICAL SECTION - STATE ROUTE 435 4-LANE
STA. 63+21.89± TO STA. 72+00.00±



EXISTING TYPICAL SECTION - STATE ROUTE 435 3-LANE
STA. 72+00.00± TO APPROACH SLAB STA. 90+50.00±



EXISTING TYPICAL SECTION - STATE ROUTE 435 APPROACH SLAB
STA. 75+78.72± TO STA. 78+82.77±

EXISTING ITEM LEGEND

- (A) *1½" ASPHALT CONCRETE, SURFACE COURSE*
- (B) *1¾" ASPHALT CONCRETE, INTERMEDIATE COURSE*
- (C) *ASPHALT CONCRETE BASE (THICKNESS NOTED)*
- (D) *6" AGGREGATE BASE*
- (E) *18" GRANULAR MATERIAL*
- (F) *4" STABILIZED CRUSHED AGGREGATE*
- (G) *14" CEMENT STABILIZED SUBGRADE*
- (H) *8" AGGREGATE BASE*
- (J) *14" AGGREGATE BASE*
- (K) *7" CONCRETE BASE*
- (L) *GUARDRAIL*
- (M) *6" UNDERDRAIN*
- (N) *15" REINFORCED CONCRETE APPROACH SLAB*
- (K)

TYPICAL SECTIONS - EXISTING SR 435 (BU-5)

FAY-435-1.52

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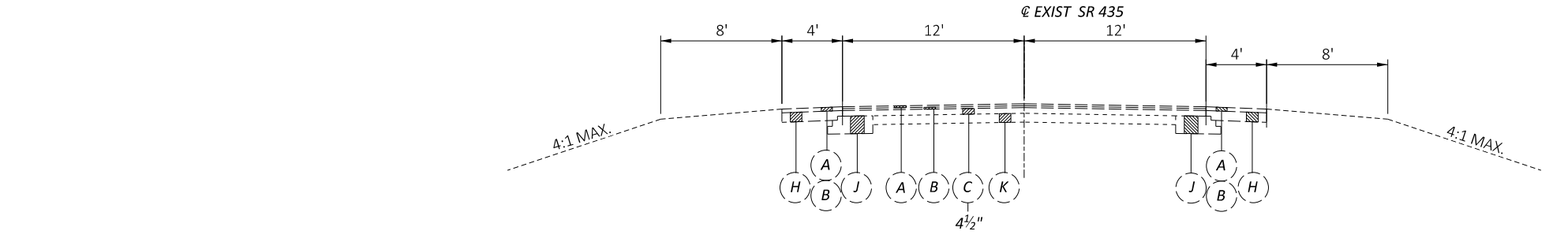
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER
DPF

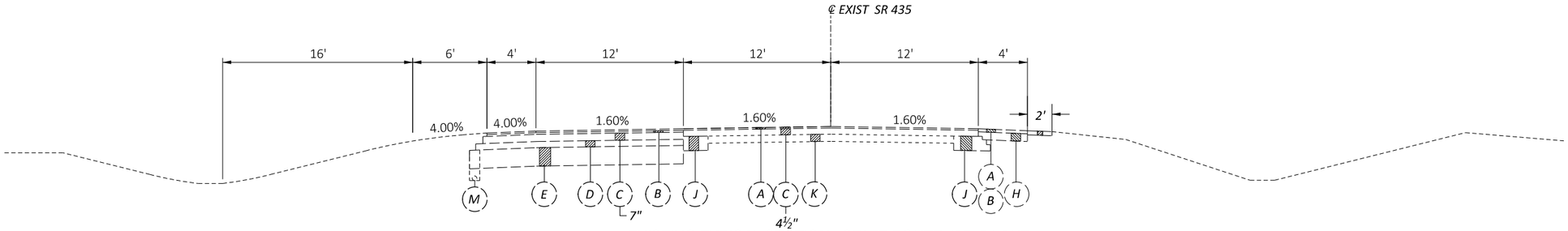
REVIEWER
DCJ 05/10/24

PROJECT ID
117955

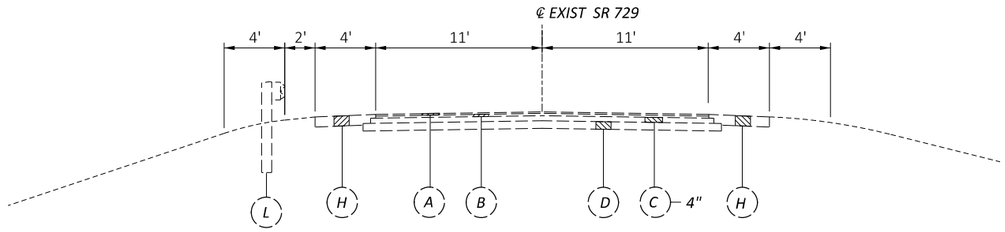
SHEET P. 6 | TOTAL 246



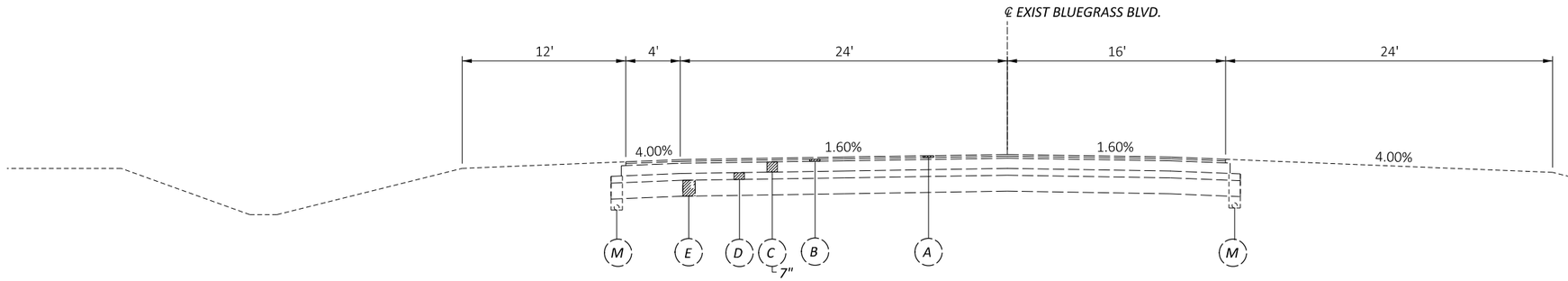
EXISTING TYPICAL SECTION - STATE ROUTE 435 2-LANE
STA. 90+50.00± TO STA. 96+15.00±



EXISTING TYPICAL SECTION - STATE ROUTE 435 3-LANE
STA. 96+15.00± TO STA. 119+75.00±



EXISTING TYPICAL SECTION - STATE ROUTE 729
STA. 175+25.00±



EXISTING TYPICAL SECTION - BLUEGRASS BOULEVARD
STA. 195+00.00±

NOTES

1. FOR EXISTING ITEM LEGEND, SEE SHEET P. 6

TYPICAL SECTIONS - EXISTING SR 435/SR729/BLUEGRASS (BU-5)

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 7 | TOTAL: 246

FAY-435-1.52

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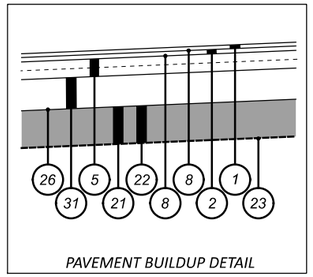
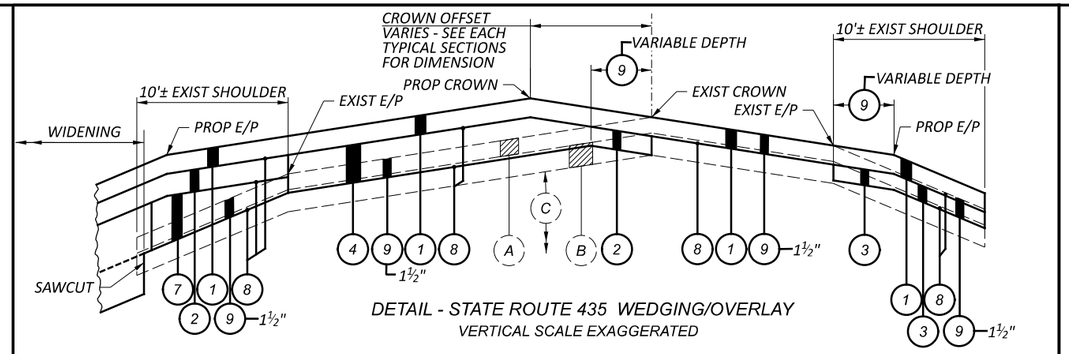
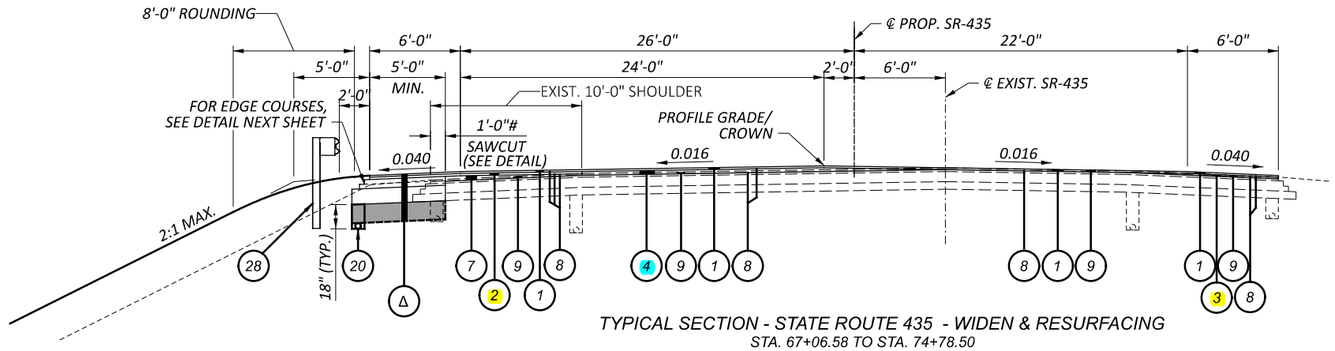


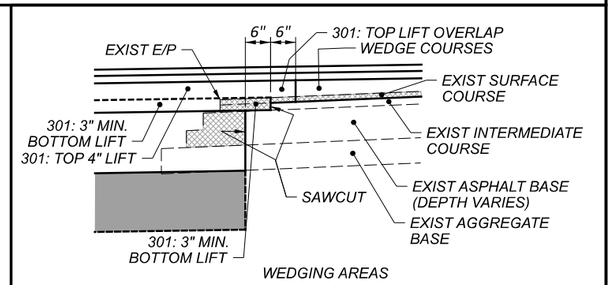
PAVEMENT BUILDUP DETAIL



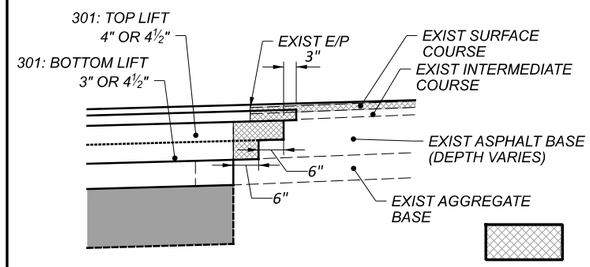
DETAIL - STATE ROUTE 435 WEDGING/OVERLAY
VERTICAL SCALE EXAGGERATED



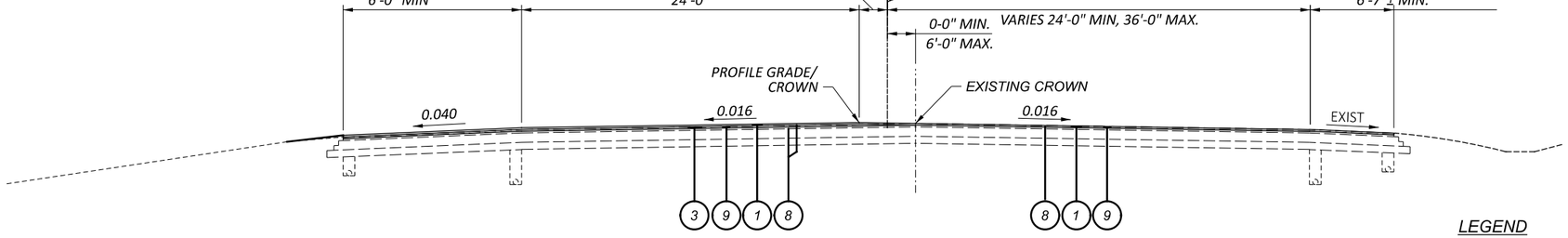
TYPICAL SECTION - STATE ROUTE 435 - WIDEN & RESURFACING
STA. 67+06.58 TO STA. 74+78.50



WEDGING AREAS



OVERLAY AREAS
SAWCUT DETAILS



TYPICAL SECTION - STATE ROUTE 435 - RESURFACING
STA. 63+21.89 TO STA. 67+06.58

LEGEND

= 1'-0" MIN. , OR UNTIL SOUND PAVEMENT IS REACHED
Δ = SEE PAVEMENT BUILDUP DETAIL

NOTES

1. FOR EXISTING ITEM LEGEND, SEE SHEET P. 6

PROPOSED ITEM LEGEND

1. ITEM 442 - 1½" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446)
2. ITEM 442 - 1¾"ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (449)
3. ITEM 442 - 0" MIN. - 2½" MAX. ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (449)
4. ITEM 442 - 0" MIN. - 3¾" MAX. ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (449)
5. ITEM 301 – 7" ASPHALT CONCRETE BASE, PG64-22, (449) (3" & 4" LIFTS)
6. ITEM 301 – 9" ASPHALT CONCRETE BASE, PG64-22, (449) (2 - 4½" LIFTS)
7. ITEM 301 – 3½" MIN, 18" ± MAX. ASPHALT CONCRETE BASE, PG64-22, (449)
8. ITEM 407 – NON-TRACKING TACK COAT (RATE PER CMS TABLE 407.06-1)
9. ITEM 254 – PAVEMENT PLANING, ASPHALT (VARIABLE DEPTH, 1½" TYPICAL)
10. ITEM 452 – 10" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P
11. ITEM 451 - 7" REINFORCED CONCRETE PAVEMENT
12. ITEM 304 - 6" AGGREGATE BASE
13. ITEM 304 - 15" AGGREGATE BASE
14. ITEM 304 - 4" AGGREGATE BASE
15. ITEM 609 - COMBINATION CURB & GUTTER, TYPE 3
16. ITEM 609 - COMBINATION CURB & GUTTER, TYPE 9
17. ITEM 609 - CURB, TYPE 4C
18. ITEM 609 - CURB, TYPE 10
19. ITEM 609 - 4" CONCRETE MEDIAN
20. ITEM 605 - 6" BASE PIPE UNDERDRAIN, 707.31
21. ITEM 204 - EXCAVATION OF SUBGRADE, 12"
22. ITEM 204 - GRANULAR MATERIAL, TYPE B
23. ITEM 204 - GEOTEXTILE FABRIC
24. ITEM 206 - CEMENT STABLIZED SUBGRADE, 14"
25. ITEM 206 - CURING COAT
26. ITEM 204 - PROOF ROLLING
27. ITEM 659 - SEEDING & MULCHING
28. ITEM 608 - GUARDRAIL, TYPE MGS
29. ITEM 204 - SUBGRADE COMPACTION
30. ITEM 203 - 6" NO. 2 AGGREGATE (CMS TABLE 703.01-1)
31. ITEM 304 - VARIABLE DEPTH AGGREGATE BASE (MATCH EXIST SUBRGADE ELEVATION)
32. ITEM 442 - 1½" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, PG76-22M (446), AS PER PLAN

SUBGRADE STABILZATION LIMITS

TYPICAL SECTIONS - PROPOSED SR 435 (BU-5)

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 8 TOTAL 246

FAY-435-1.52

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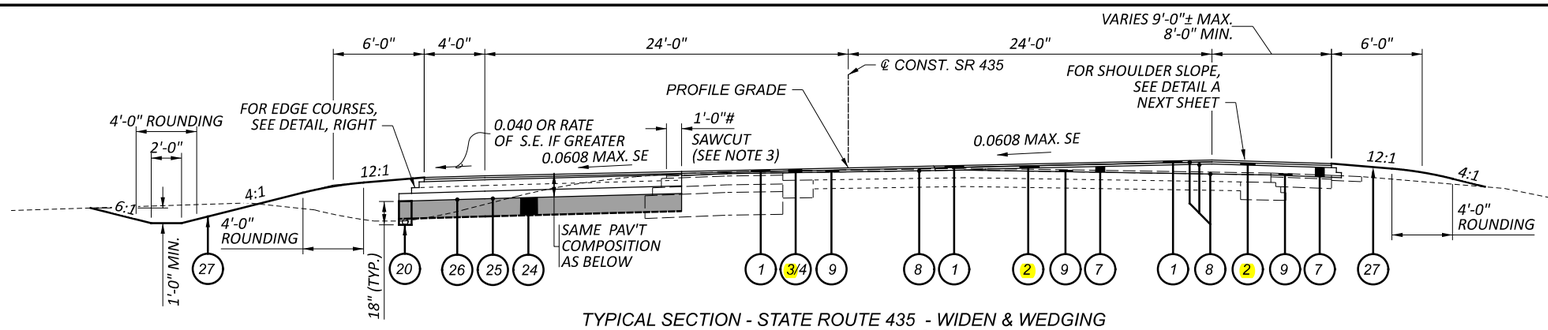
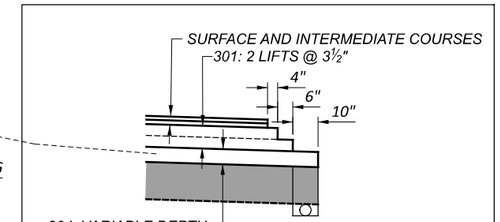
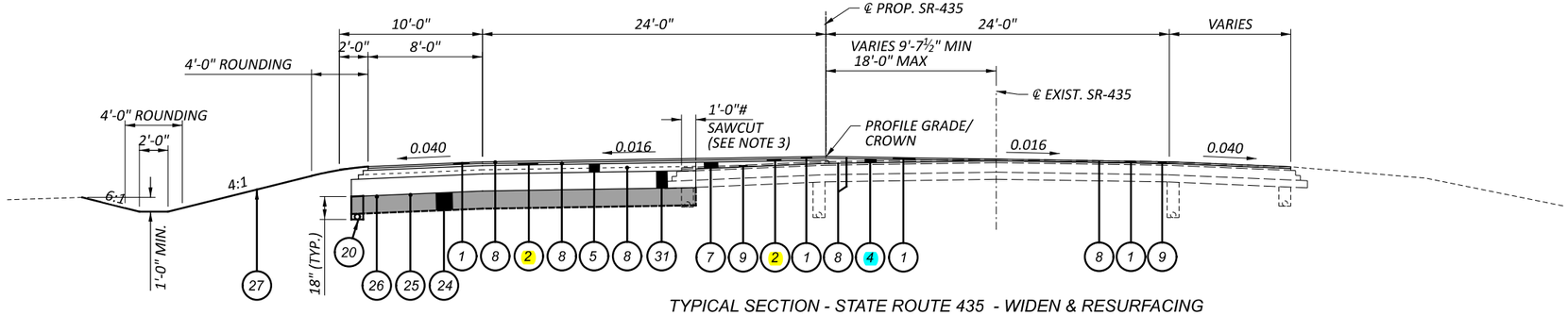


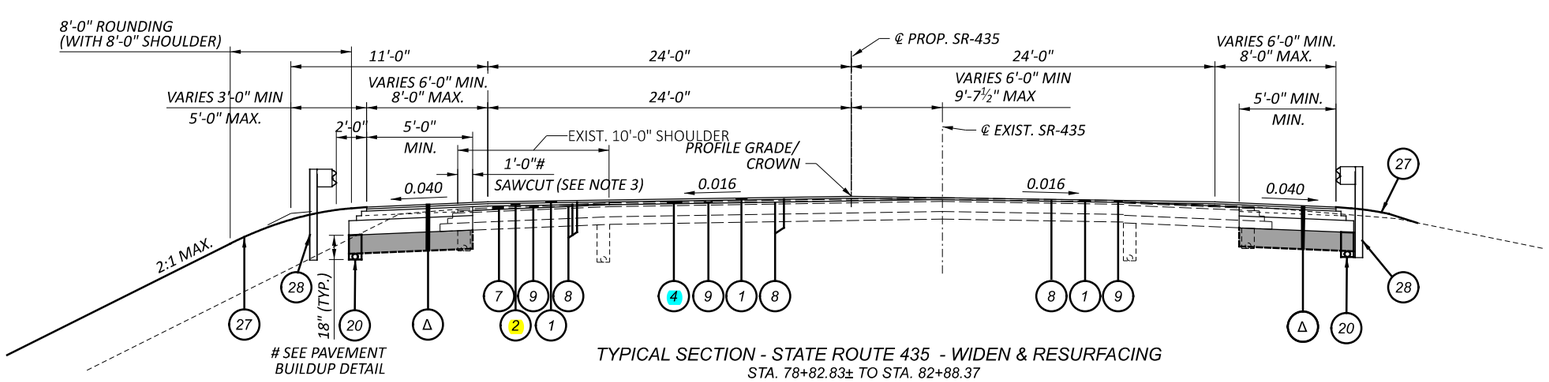
TYPICAL SECTION - STATE ROUTE 435 - WIDEN & WEDGING
STA. 96+90.39 TO STA. 100+12.25



DETAIL - EDGE COURSES

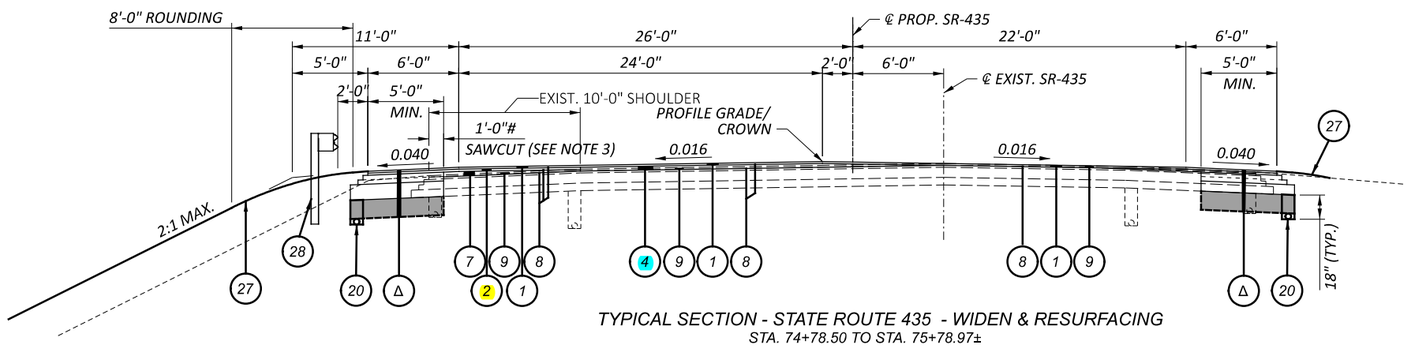


TYPICAL SECTION - STATE ROUTE 435 - WIDEN & RESURFACING
STA. 82+88.37± TO STA. 96+90.39

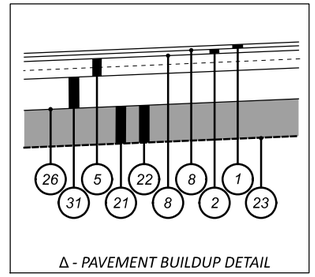


TYPICAL SECTION - STATE ROUTE 435 - WIDEN & RESURFACING
STA. 78+82.83± TO STA. 82+88.37

STATE ROUTE 435 - APPROACH SLAB & BRIDGE DECK
STA. 75+78.97± TO STA. 78+82.83±



TYPICAL SECTION - STATE ROUTE 435 - WIDEN & RESURFACING
STA. 74+78.50 TO STA. 75+78.97±



Δ - PAVEMENT BUILDUP DETAIL

LEGEND

 # = 1'-0" MIN. , OR UNTIL SOUND PAVEMENT IS REACHED
Δ = SEE PAVEMENT BUILDUP DETAIL

NOTES

1. FOR EXISTING ITEM LEGEND, SEE SHEET P. 6
2. FOR PROPOSED ITEM LEGEND, SEE SHEET P. 8
3. FOR SAWCUT DETAIL, SEE SHEET P. 8

TYPICAL SECTIONS - PROPOSED SR 435 (BU-5)

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 9 TOTAL 246

FAY-435-1.52

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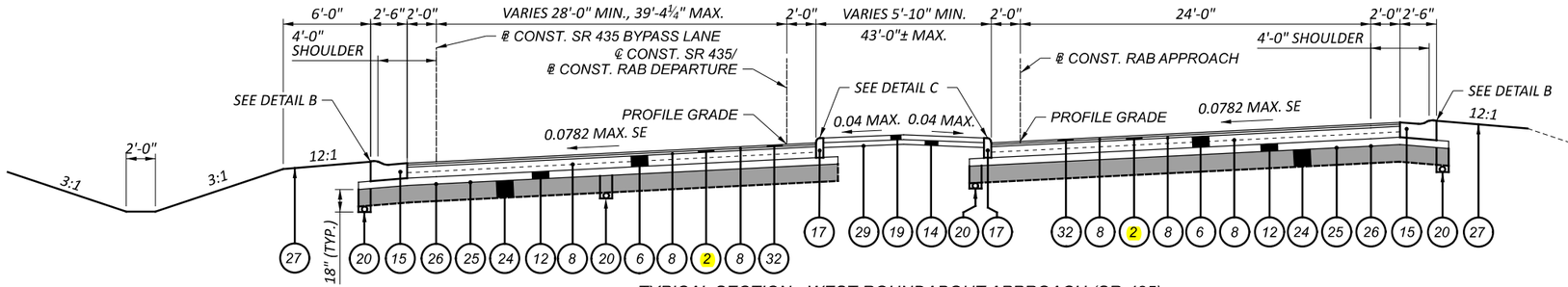


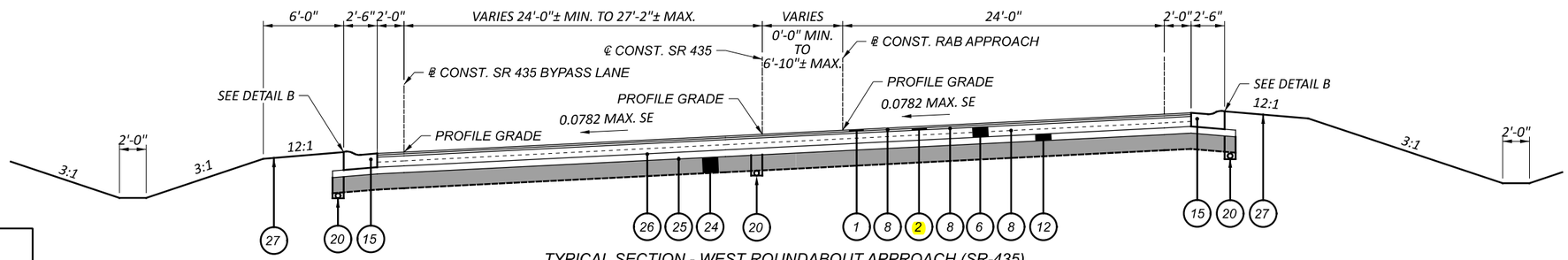
TYPICAL SECTION - WEST ROUNDABOUT APPROACH (SR-435)
FULL-DEPTH WITH SPLITTER ISLANDS
STA. 102+81.48 TO STA. 106+28.16

LEGEND

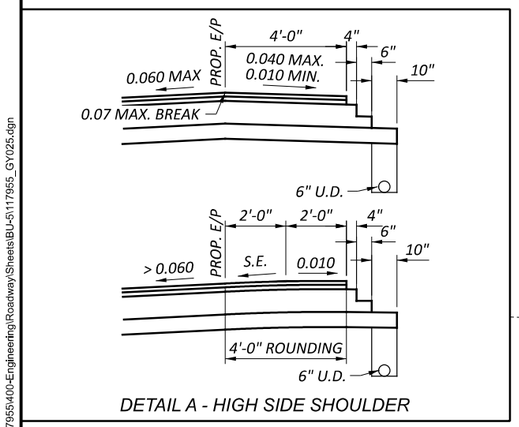
= 1'-0" MIN. , OR UNTIL SOUND PAVEMENT IS REACHED

NOTES

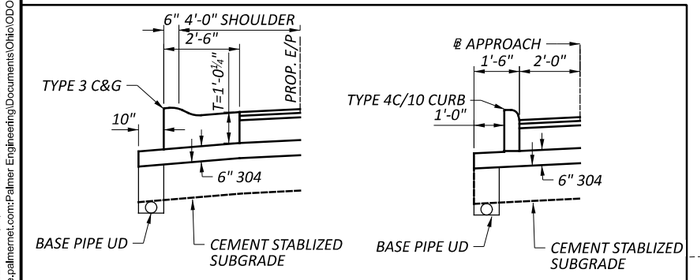
1. FOR EXISTING ITEM LEGEND, SEE SHEET P. 6
2. FOR PROPOSED ITEM LEGEND, SEE SHEET P. 8
3. FOR SAWCUT DETAIL, SEE SHEET P. 8



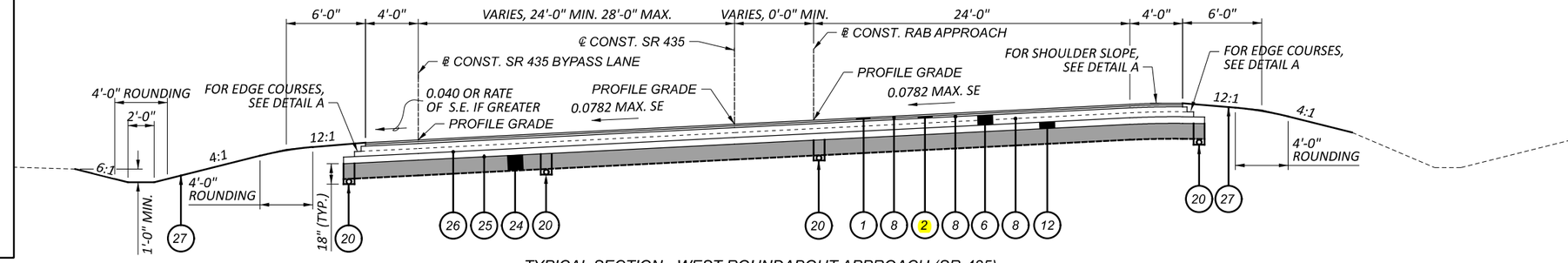
TYPICAL SECTION - WEST ROUNDABOUT APPROACH (SR-435)
FULL-DEPTH/ WITH SHOULDERS
STA. 101+50.00 TO STA. 102+00.00



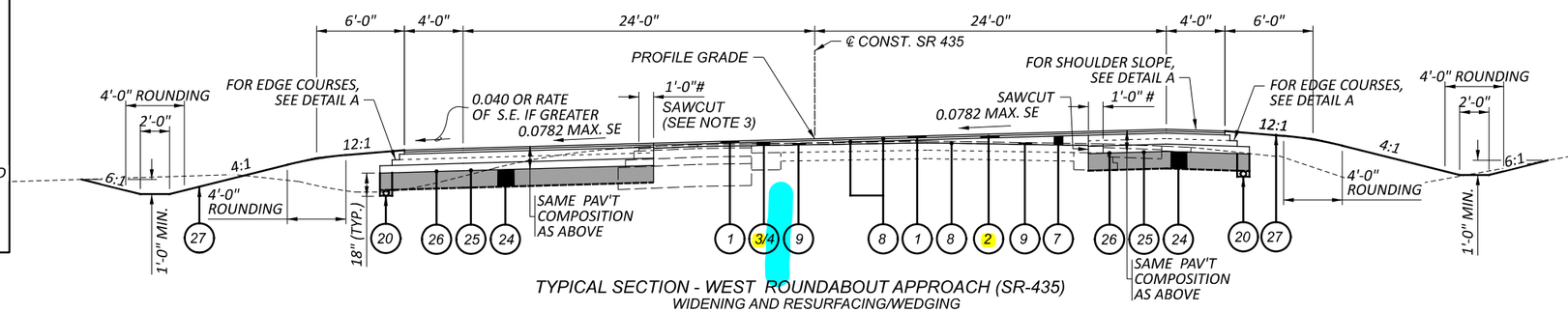
DETAIL A - HIGH SIDE SHOULDER



DETAIL B DETAIL C



TYPICAL SECTION - WEST ROUNDABOUT APPROACH (SR-435)
FULL-DEPTH/ WITH SHOULDERS
STA. 101+06.00 TO STA. 101+50.00



TYPICAL SECTION - WEST ROUNDABOUT APPROACH (SR-435)
WIDENING AND RESURFACING/WEDGING
STA. 100+12.25 TO STA. 101+06.00

TYPICAL SECTIONS - SR 435 ROUNDABOUT WEST (BU-5)

FAY-435-1.52

MODEL: SHEET1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:28:53 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\Roadway\Sheets\BU-5\117955_GY025.dgn

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
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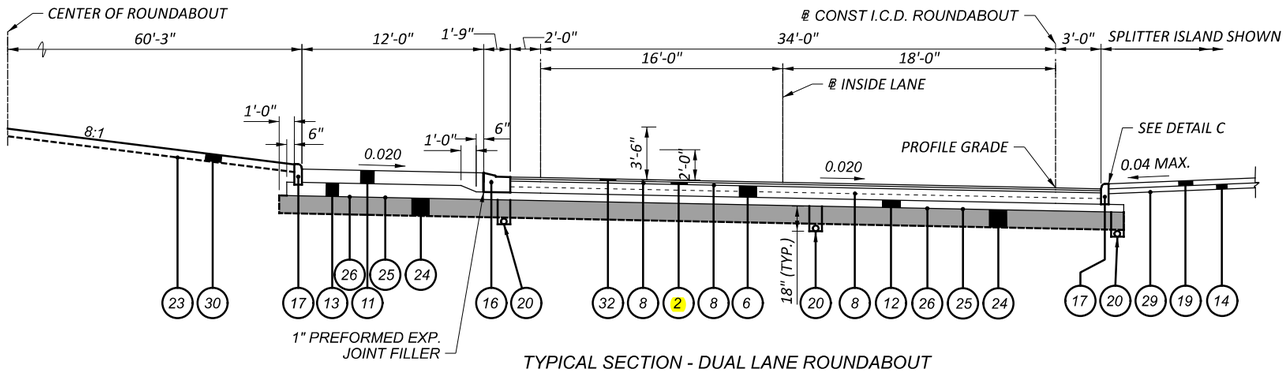
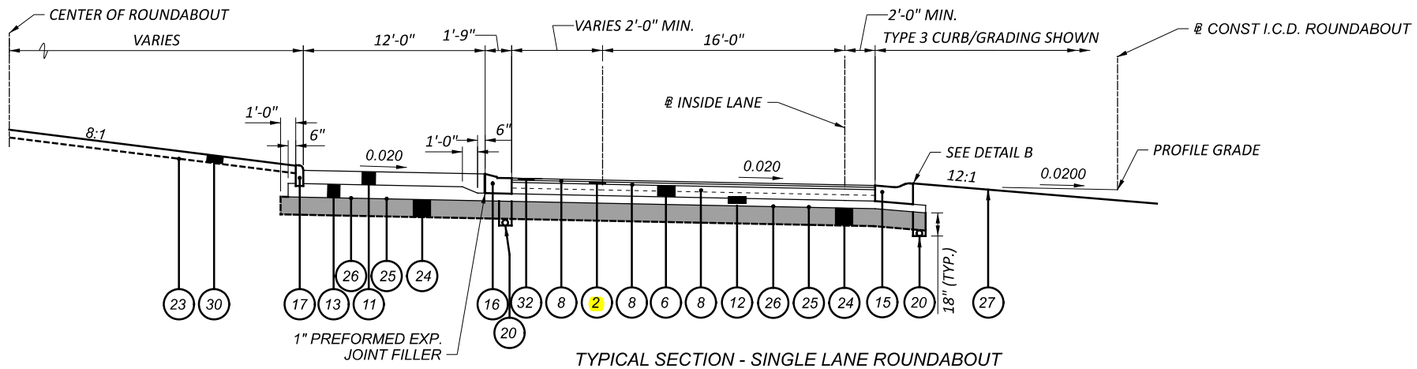
513-469-1600

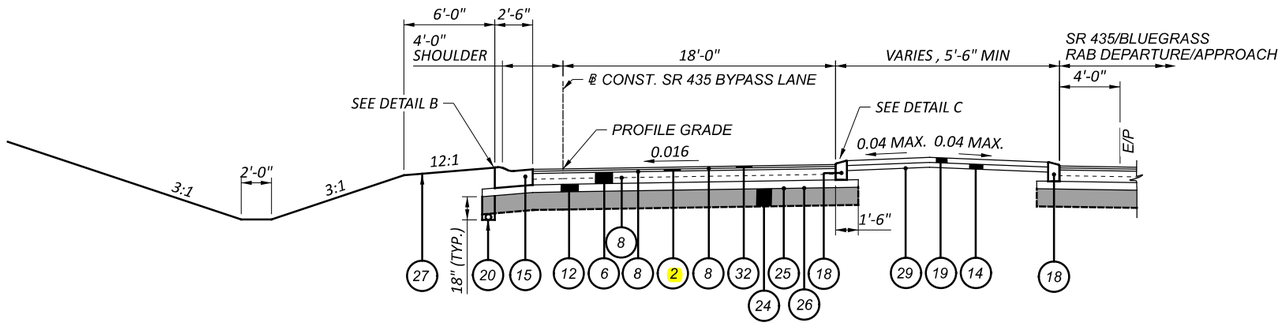
DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 10 TOTAL 246



TYPICAL SECTION - DUAL LANE ROUNDABOUT



TYPICAL SECTION - SINGLE LANE ROUNDABOUT



TYPICAL SECTION - SR 435 BYPASS LANE

NOTES

1. FOR EXISTING ITEM LEGEND, SEE SHEET P. 6
2. FOR PROPOSED ITEM LEGEND, SEE SHEET P. 8
3. FOR DETAILS A, B, AND C, SEE SHEET P. 10

TYPICAL SECTIONS - SR 435 ROUNDABOUT (BU-5)

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PROJECT ID: 117955
SHEET: P. 11 | TOTAL: 246

FAY-435-1.52

MODEL: SHEET2 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:28:54 PM USER: dan-f
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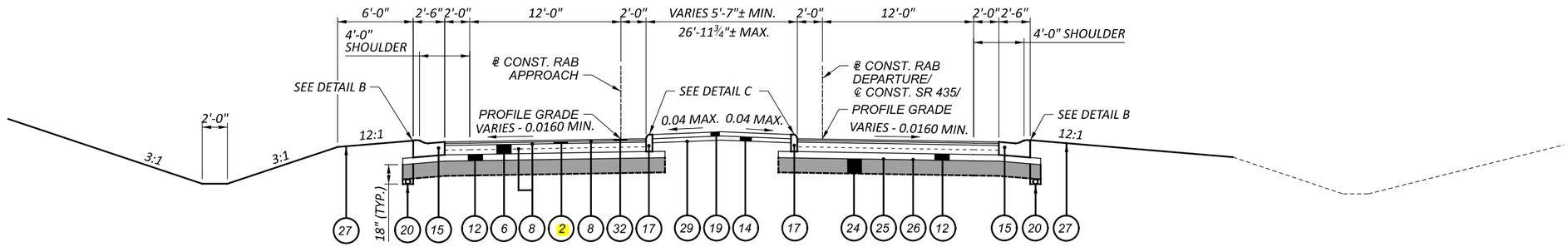
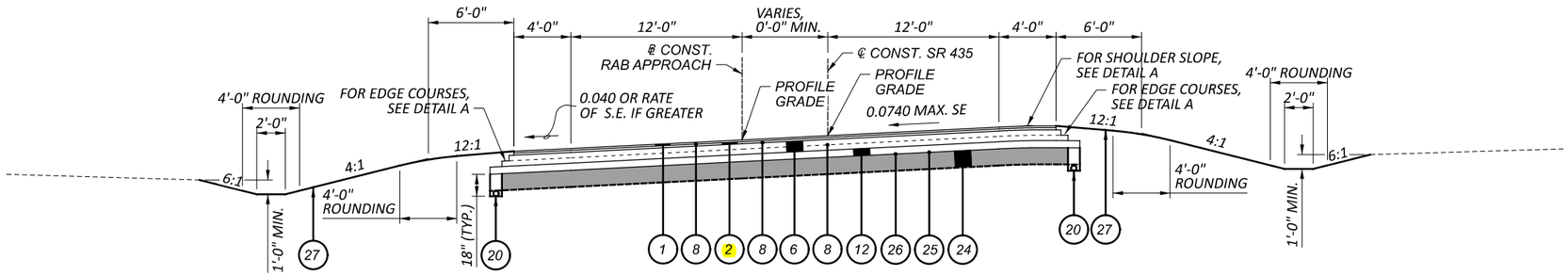
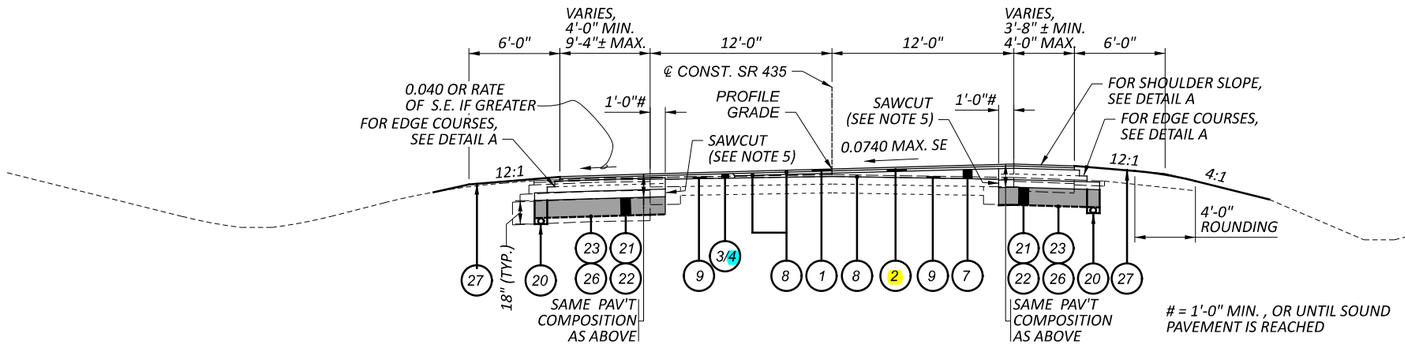


TYPICAL SECTION - EAST ROUNDABOUT APPROACH (SR-435)
FULL-DEPTH WITH SPLITTER ISLANDS
STA. 108+49.35 TO STA. 112+15.39

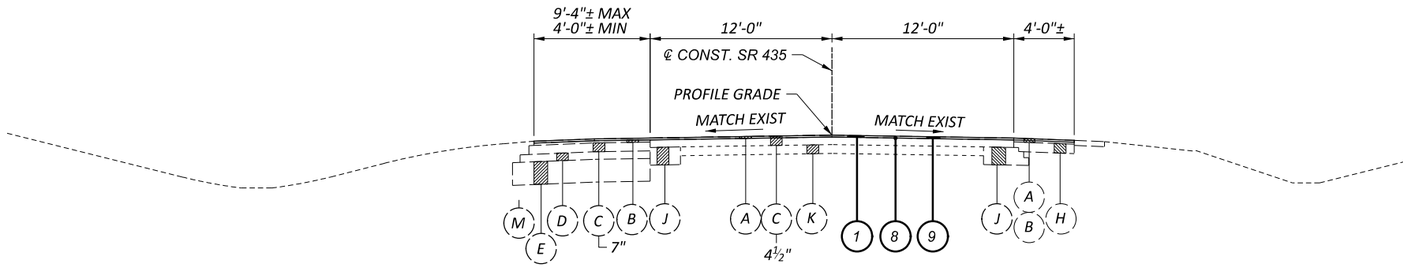


TYPICAL SECTION - EAST ROUNDABOUT APPROACH (SR-435)
FULL-DEPTH/ WITH SHOULDERS
STA. 112+15.39 TO STA. 114+80.22



= 1'-0" MIN. , OR UNTIL SOUND PAVEMENT IS REACHED

TYPICAL SECTION - EAST ROUNDABOUT APPROACH (SR-435)
WIDENING AND RESURFACING/WEDGING
STA. 114+80.22 TO STA. 116+50.00



TYPICAL SECTION - EAST ROUNDABOUT APPROACH (SR-435)
RESURFACING
STA. 116+50.00 TO STA. 119+75.00

NOTES

1. FOR EXISTING ITEM LEGEND, SEE SHEET P. 6
2. FOR PROPOSED ITEM LEGEND, SEE SHEET P. 8
3. FOR DETAILS A, B, AND C, SEE SHEET P. 10

5. FOR SAWCUT DETAIL, SEE SHEET P. 8

TYPICAL SECTIONS - SR 435 ROUNDABOUT EAST (BU-5)

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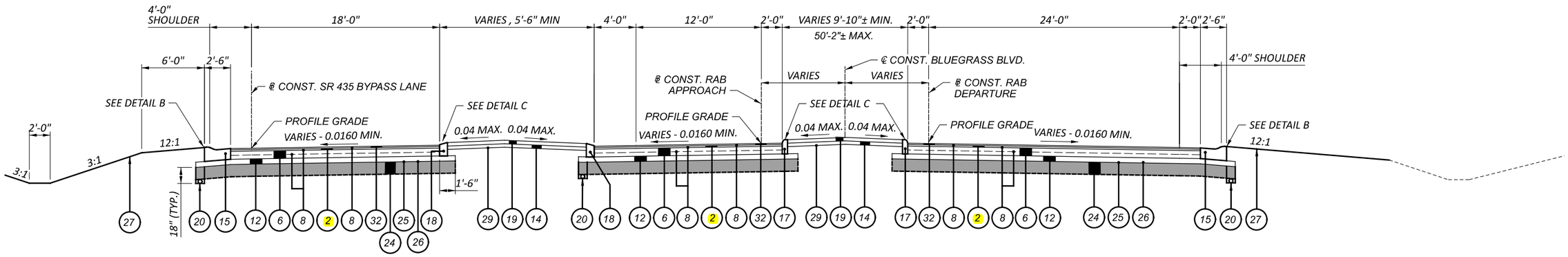
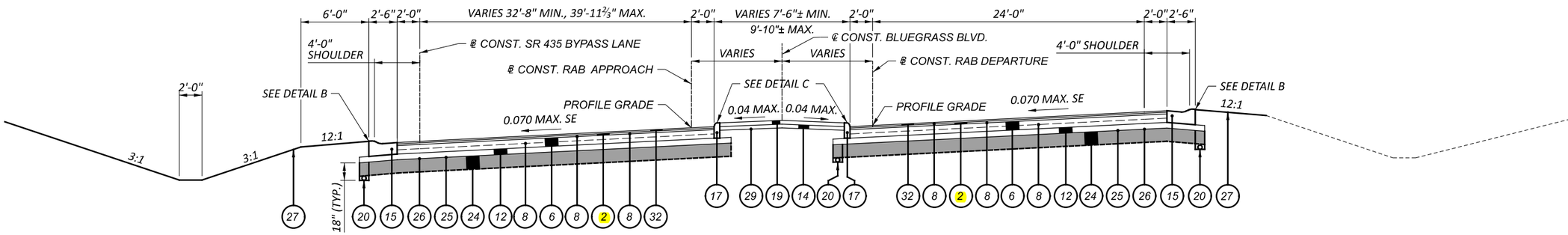
PROJECT ID 117955
SHEET P. 12 TOTAL 246

FAY-435-1.52

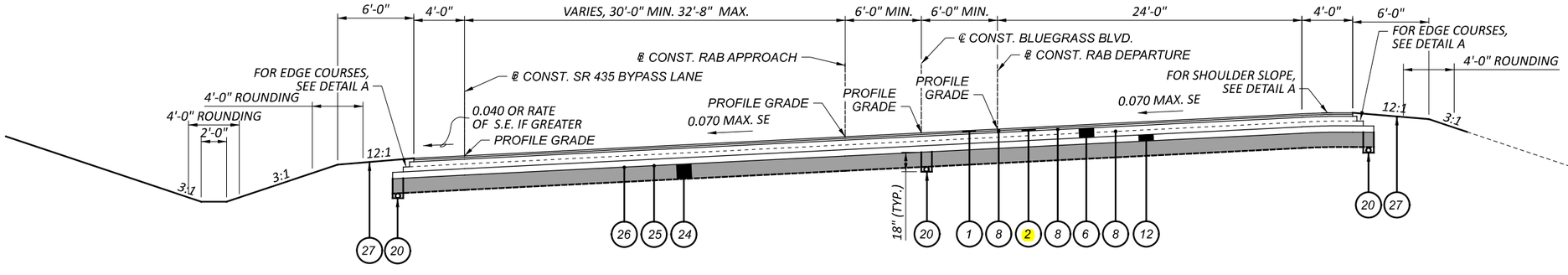
MODEL: SHEET3 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:28:54 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\Roadway\Sheets\BU-5\117955_GY025.dgn



TYPICAL SECTION - ROUNDABOUT APPROACH (BLUEGRASS BLVD)
FULL-DEPTH WITH SPLITTER ISLANDS
STA. 184+44.34 TO STA. 186+14.61



TYPICAL SECTION - ROUNDABOUT APPROACH (BLUEGRASS BLVD)
FULL-DEPTH WITH SPLITTER ISLANDS
STA. 186+14.61 TO STA. 187+23.20



TYPICAL SECTION - ROUNDABOUT APPROACH (BLUEGRASS BLVD)
FULL-DEPTH/ WITH SHOULDERS
STA. 187+23.20 TO STA. 188+10.34

NOTES

1. *FOR EXISTING ITEM LEGEND, SEE SHEET P. 6*
2. *FOR PROPOSED ITEM LEGEND, SEE SHEET P. 8*
3. *FOR DETAILS A, B, AND C, SEE SHEET P. 10*

TYPICAL SECTIONS - BLUEGRASS ROUNDABOUT (BU-5)

FAY-435-1.52

MODEL: SHEET1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:29:02 PM USER: dan-f
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DESIGN AGENCY
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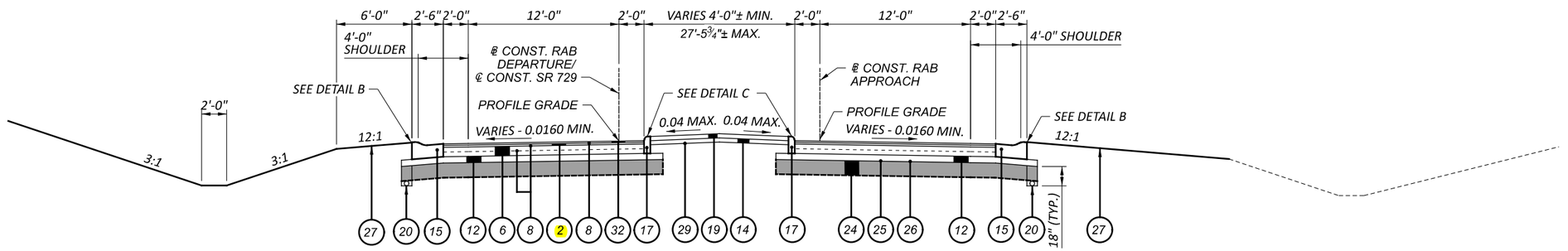
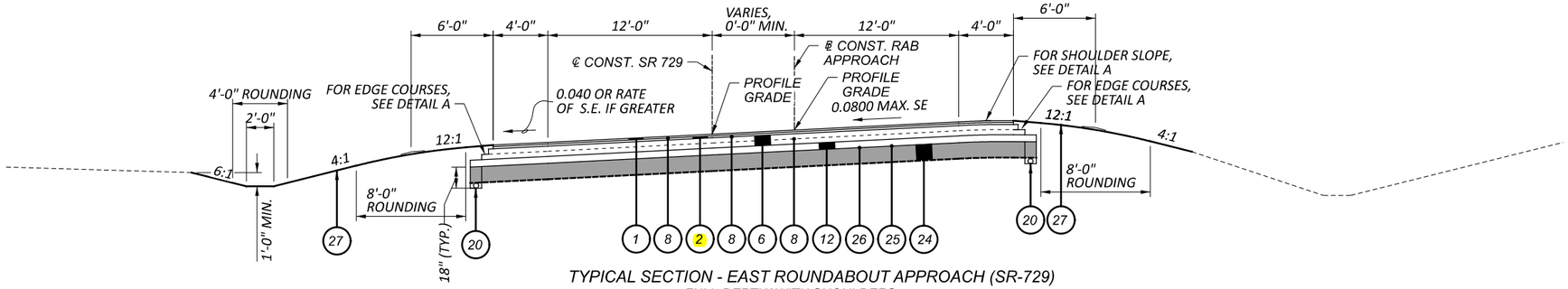
513-469-1600

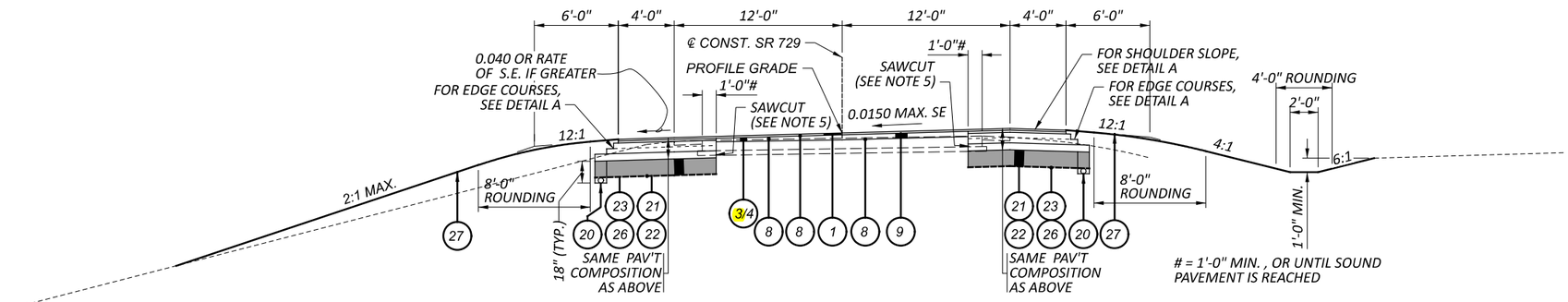
DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 13 TOTAL 246



TYPICAL SECTION - EAST ROUNDABOUT APPROACH (SR-729)
FULL-DEPTH WITH SPLITTER ISLANDS
STA. 179+81.03 TO STA. 183+04.47



TYPICAL SECTION - EAST ROUNDABOUT APPROACH (SR-729)
FULL-DEPTH/ WITH SHOULDERS
STA. 175+65.00 TO STA. 179+81.03



TYPICAL SECTION - EAST ROUNDABOUT APPROACH (SR-729)
WIDENING AND RESURFACING/WEDGING
STA. 174+90.00 TO STA. 175+65.00

 # = 1'-0" MIN. , OR UNTIL SOUND PAVEMENT IS REACHED

TYPICAL SECTIONS - SR 729 ROUNDABOUT (BU-5)

LEGEND

 # = 1'-0" MIN. , OR UNTIL SOUND PAVEMENT IS REACHED

NOTES

1. FOR EXISTING ITEM LEGEND, SEE SHEET P. 6
2. FOR PROPOSED ITEM LEGEND, SEE SHEET P. 8
3. FOR DETAILS A, B, AND C, SEE SHEET P. 10

5. FOR SAWCUT DETAIL, SEE SHEET P. 8

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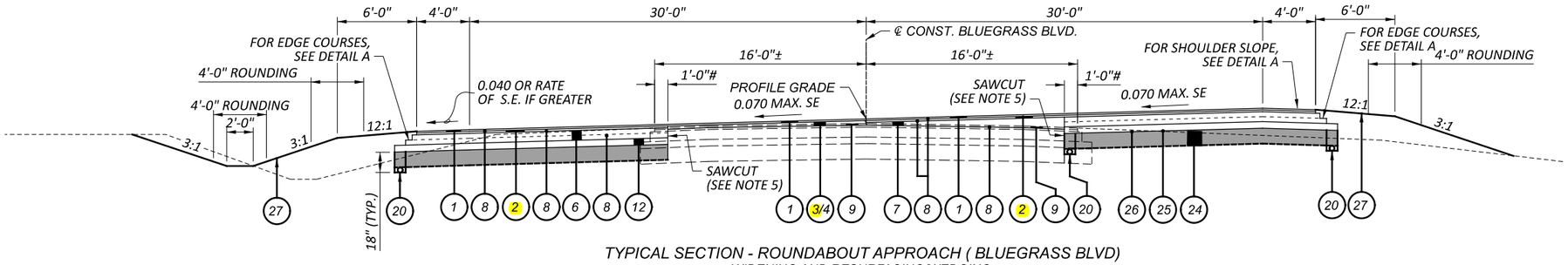
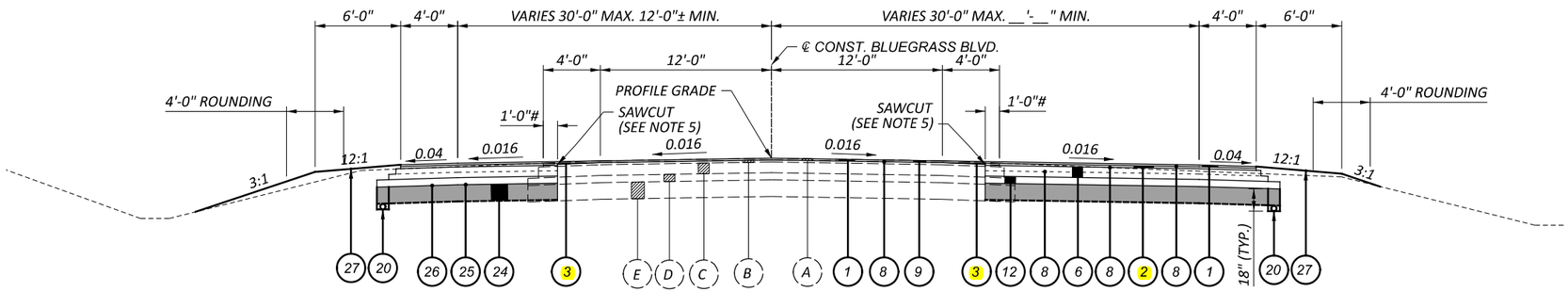
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 14 TOTAL 246

FAY-435-1.52

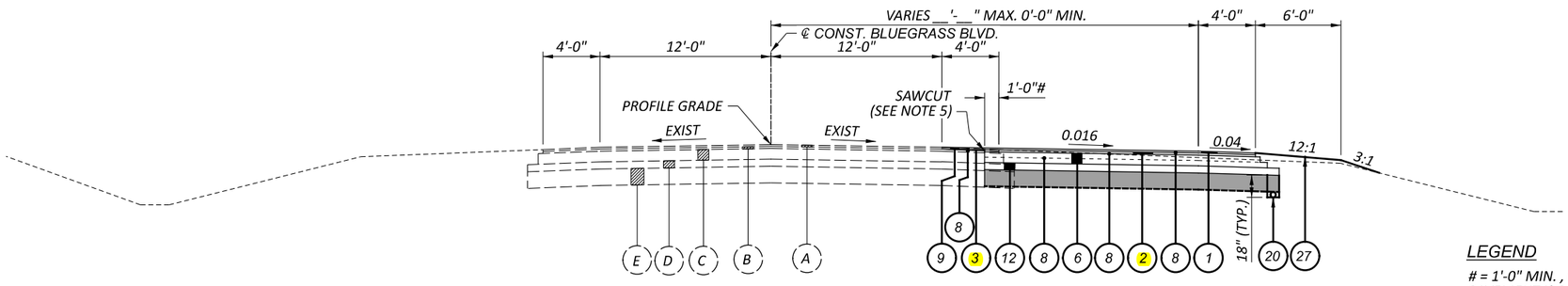
MODEL: SHEET1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:29:09 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955400-Engineering\Roadway\Sheets\BU-5\117955_GY030.dgn



TYPICAL SECTION - ROUNDABOUT APPROACH (BLUEGRASS BLVD)
WIDENING AND RESURFACING/WEDGING
STA. 188+10.34 TO STA. 191+54.60



TYPICAL SECTION - BLUEGRASS BLVD
WIDENING AND RESURFACING
STA. 191+54.60 TO STA. 195+00.00



TYPICAL SECTION - BLUEGRASS BLVD
WIDENING
STA. 195+00.00 TO STA. 201+76.00

LEGEND

 # = 1'-0" MIN. , OR UNTIL SOUND PAVEMENT IS REACHED

NOTES

1. FOR EXISTING ITEM LEGEND, SEE SHEET P. 6
2. FOR PROPOSED ITEM LEGEND, SEE SHEET P. 8
3. FOR DETAILS A, B, AND C, SEE SHEET P. 10

5. FOR SAWCUT DETAIL, SEE SHEET P. 8

TYPICAL SECTIONS - SR 435 ROUNDABOUT (BU-5)

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DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 15 TOTAL 246

FAY-435-1.52

MODEL: SHEET2 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:29:18 PM USER: dan-f
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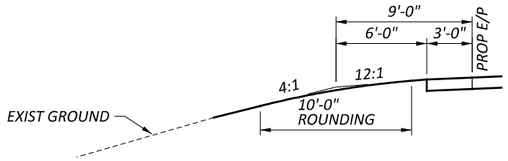
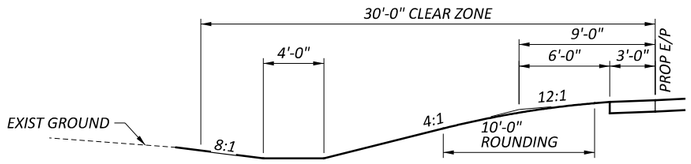
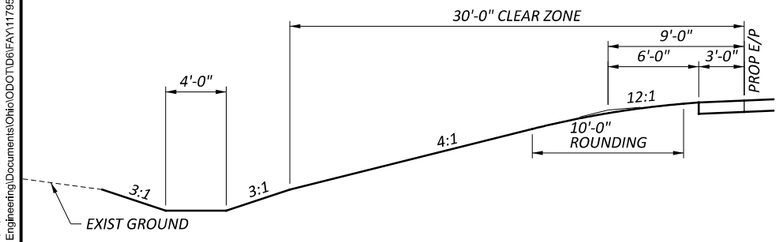
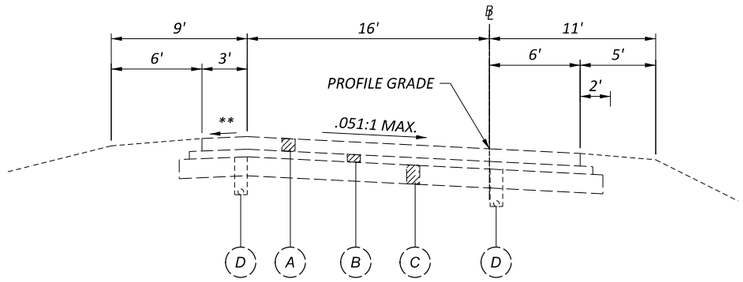






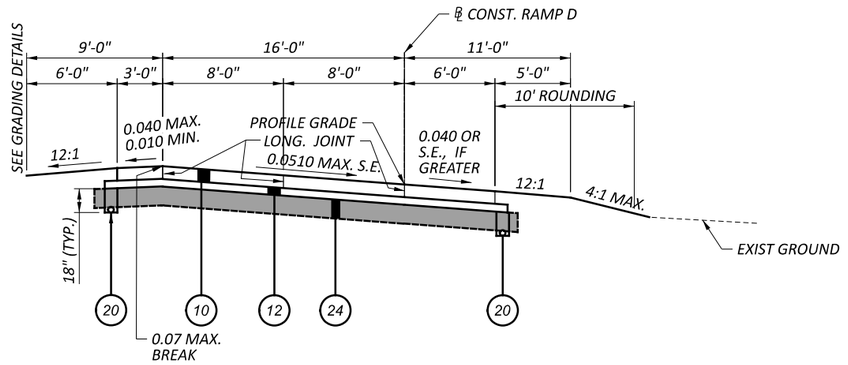
GRADING DETAILS - ADJACENT 3'-0" INSIDE SHOULDER



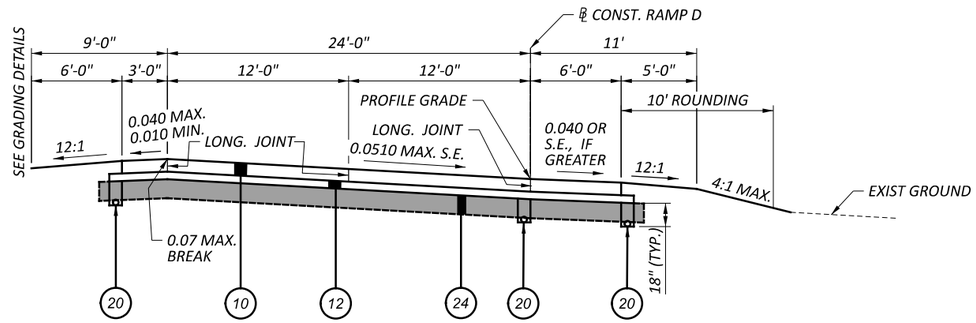
EXISTING TYPICAL SECTION - US 35 RAMP D

* SAME AS PAV'T. .042:1 MIN.

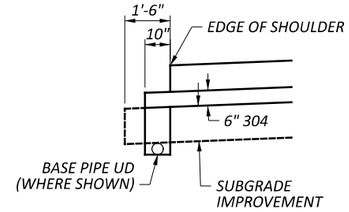
** VARIES 0.42:1 MAX. TO .019:1 MIN.



TYPICAL SECTION - US 35 RAMP D
STA. 248+31.00 TO STA. 243+00.00
(SHOWN LOOKING IN DIRECTION TO TRAFFIC)



TYPICAL SECTION - US 35 RAMP D
STA. 243+00.00 TO STA. 237+15.19
(SHOWN LOOKING IN DIRECTION TO TRAFFIC)



DETAIL - EDGE COURSES

NOTES

1. FOR EXISTING ITEM LEGEND, SEE SHEET P. 6
2. FOR PROPOSED ITEM LEGEND, SEE SHEET P. 8

4. FOR JOINT DETAILS, SEE SHEET P. 211

TYPICAL SECTIONS - US35 RAMP D (BU-5)

FAY-435-1.52

MODEL: Sheet_SurvFt - Sheet 1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:29:25 PM USER: dan-f
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8350 E. KEMPER RD.
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513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 16 TOTAL 246

ROUNDING

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

UTILITIES

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

TRAFFIC SIGNALS AND LIGHTING:
OHIO DEPARTMENT OF TRANSPORTATION – DISTRICT 6
DAVID CARLIN
DAVID.CARLIN@DOT.OHIO.GOV
740-833-8198

WATER AND SANITARY SEWER:
FAYETTE COUNTY ENGINEER'S OFFICE
WATER & SEWER DEPARTMENT
STEVE LUEBBE
STEVE.LUEBBE@FAYETTE-CO-OH.COM
740-333-3538

TELECOMMUNICATIONS:
AT&T
SCOTT ECKLEY
SE1236@ATT.COM
937-965-9839

TELECOMMUNICATIONS:
SPECTRUM/CHARTER
JIM OREBAUGH
JIM.OREBAUGH@CHARTER.COM
740-253-2122

ELECTRIC:
AES
BILL WARD
WILLIAM.WARD@AES.COM

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.

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.

SEEDING AND MULCHING

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.

CLEARING AND GRUBBING

THE PLANS DO NOT IDENTIFY INDIVIDUAL TREES AND STUMPS FOR REMOVAL. UNLESS SPECIFICALLY DESIGNATED AS "DO NOT DISTURB" IN THE PLANS, REMOVE ALL TREES AND STUMPS WITHIN THE CONSTRUCTION LIMITS

BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN SECTION 203.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS). NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF SECTION 203.05.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET P. 3 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

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

PROJECT CONTROL

POSITIONING METHOD: NGS OPUS
MONUMENT TYPE: VARIOUS SET BY ODOT, SEE TABLE SHEET P.3

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID 18

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011) EPOCH 2010.0
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE
COMBINED SCALE FACTOR: 0.99989861 (GROUND TO GRID)
PROJECT SCALE FACTOR: 1.00010140 (GRID TO GROUND)
ORIGIN OF COORDINATE SYSTEM: GRID COORDINATES SCALED ABOUT 0,0

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

UNITS ARE IN U.S. SURVEY FEET.

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PRIVATE-USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT, AT MAXIMUM OPERATING HEIGHT, SHALL EXCEED A HEIGHT OF 50 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, COORDINATION WITH THE AIRPORT OWNER AND THE ODOT OFFICE OF AVIATION WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. FOR PRIVATE USE AIRPORTS OR HELIPORTS, COORDINATE WITH THE AIRPORT OWNER AND THE ODOT OFFICE OF AVIATION. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL COORDINATION IS MET AND DOCUMENTATION HAS BEEN FURNISHED TO THE PROJECT ENGINEER. IF COORDINATION IS NOT OBTAINED, THEN THE PROJECT ENGINEER WILL HAVE THE AUTHORITY TO PROVIDE RESTRICTIONS AS REQUIRED.

MEDFLIGHT 9 (HELIPAD)
(PCL OWNER FAYETTE COUNTY BOARD OF COMMISSIONERS)
11280 OLD US HWY 35 NW, JEFFERSONVILLE, OH 43128
(877) 633 - 3598

PART-WIDTH CONSTRUCTION

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

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

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

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

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

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

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

EMBANKMENT OVER EXISTING DITCHES

WHERE EMBANKMENT IS PROPOSED TO PLACED IN EXISTING DITCHES, THE CONTRACTOR SHALL EXCAVATE AND REPLACE UNSUITABLE MATERIAL BEFORE PLACING EMBANKMENTS. EXCAVATE THE UNSUITABLE MATERIAL TO A NOMINAL DEPTH OF 2 FEET BELOW THE EXISTING ELEVATION OF THE DITCH BOTTOM, THE LIMITS OF WHICH SHALL BE THE WIDTH OF THE DITCH. SHAPE AND COMPACT THE SUBGRADE AFTER REMOVAL OF UNSUITABLE MATERIAL PRIOR TO PLACING THE EMBANKMENT.

ITEM SPECIAL - MAILBOX SUPPORT

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

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

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

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

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

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

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

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

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

TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, PG76-22M (446), AS PER PLAN

ALL REQUIREMENTS OF ITEM 442 APPLY EXCEPT THE PG BINDER SHALL BE PG64-22M.

GENERAL NOTES (BU-5)

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 17 TOTAL 246

FAY-435-1.52

MODEL: Sheet_SurvFt PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:29:33 PM USER: dan-f
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CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

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

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

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

DRAINAGE DISCHARGE CONTINUANCE

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

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

FURNISH A WELL GRADED TRANSITION BETWEEN THE DITCH AND THE SWALE WHEN OUTLETTING A SWALE TO A DITCH.

FURNISH AN EROSION CONTROL PAD AS SHOWN IN SCD DM-1.1 WHEN OUTLETTING A CONDUIT TO A DITCH.

FURNISH A DRILLED HOLE OR A CURB SECTION WITH A HOLE WHEN OUTLETTING A CONDUIT THROUGH A CURB OPENING.

FURNISH A DRILLED CORE HOLE WHEN OUTLETTING INTO A STORM SEWER OR DRAINAGE STRUCTURE. .

DOCUMENTATION
THE CONTRACTOR SHALL FURNISH WRITTEN DOCUMENTATION TO THE ENGINEER AND TO THE DISTRICT R/W PERMIT OFFICE. THE DOCUMENTATION INCLUDES THE CONSTRUCTION PROJECT NUMBER, PID, COUNTY, ROUTE, SECTION, LATITUDE AND LONGITUDE OF THE DRAINAGE DISCHARGE AT THE R/W, THE NAME OF PROPERTY OWNER WITH ADDRESS, THE DATE THE DRAINAGE DISCHARGE WAS LOCATED, THE DATE THE DRAINAGE DISCHARGE CONTINUANCE WAS FURNISHED, A DETAILED DESCRIPTION OF THE WORK AND PICTURES OF THE DRAINAGE DISCHARGE CONTINUANCE (IN PDF OR JPEG FORMAT).

DRAINAGE DISCHARGE CONTINUANCE REMOVAL
THE ENGINEER MAY REQUIRE THE NEWLY INSTALLED DRAINAGE DISCHARGE CONTINUANCE TO BE REMOVED. REMOVE THE NEWLY INSTALLED CONDUIT AND ANY EXISTING CONDUIT TO THE RIGHT OF WAY LINE. FOR CONDUIT THAT OUTLETS THROUGH THE CURB RESTORE THE CURB BY FILLING THE HOLE WITH CLASS QC 1 CONCRETE OR REPLACE THE CURB SECTION. FOR STRUCTURE THAT OUTLETS TO A STORM SEWER OR DRAINAGE STRUCTURE LEAVE 6 INCHES PROTRUDING OUTSIDE OF THE STRUCTURE. PLUG THE PROTRUDING CONDUIT WITH EITHER A MANUFACTURED CAP OR CLASS QC 1 CONCRETE. FOR CONDUIT THAT OUTLETS TO THE DITCH REMOVE THE EROSION CONTROL PAD. RESTORE ALL AREAS AS REQUIRED. PLUG THE EXISTING CONDUIT REGARDLESS OF SIZE AT THE RIGHT OF WAY LINE WITH CLASS QC 1 CONCRETE AND RESTORE ALL AREAS AS REQUIRED.

REVIEW OF DRAINAGE FACILITIES

PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE, PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY THE DEPARTMENT.

CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.

EXISTING SUBSURFACE DRAINAGE

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

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

POST CONSTRUCTION STORM WATER TREATMENT

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

EXTENDED DETENTION BASIN

THIS PLAN UTILIZES EXTENDED DETENTION BASIN(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. DETENTION BASINS MAY BE USED AS SEDIMENT CONTROL DEVICES DURING CONSTRUCTION. FOLLOWING STABILIZATION OF THE TRIBUTARY AREA, FINAL GRADING OF THE DETENTION BASIN MUST MATCH THE PLANS. THE DETENTION BASIN OUTLET STRUCTURE FOR CONSTRUCTION SEDIMENT CONTROL MUST BE REMOVED AND THE OUTLET STRUCTURE MUST BE MADE TO MATCH THE DESIGN SHOWN IN THE PLANS.

GENERAL NOTES (BU-5)

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
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CINCINNATI,OH 45249
513-469-1600

DESIGNER
DPF

REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 18 TOTAL 246

FAY-435-1.52

MODEL: Sheet_Surv/Fi - 2 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:29:34 PM USER: dan-f
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ITEM 614, MAINTAINING TRAFFIC

PHASE 1
CONSTRUCT PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A FROM STATION 94+48 TO STATION 118+33 ON THE SOUTH SIDE OF SR 435 AND ON THE EAST SIDE OF SR 729 AND BLUEGRASS NEAR THE INTERSECTION. EXTEND CULVERTS AND PLACE TEMPORARY DRAINAGE AS SHOWN ON SHEETS P. 221-P. 222. CONSTRUCT PERMANENT PAVEMENT WIDENING (SUBGRADE IMPROVEMENT AND BASES) ON BLUEGRASS FROM STATION 187+75± TO STATION 201+76±. DRIVES SHALL BE MAINTAINED PART-WIDTH DURING CONSTRUCTION. FOR TEMPORARY MODIFICATIONS TO THE EXISTING SIGNAL AT SR 729 AND SR435. SEE SHEET P. 68. SEE SHEETS P. 28 - P. 35 FOR PHASE DETAILS.

PHASE 2
SHIFT SR 435 TRAFFIC TO THE SOUTH (RIGHT) SIDE AND SHIFT SR 729/BLUEGRASS TO THE EAST (RIGHT) SIDE ON THE EXISTING PAVEMENT AND PAVEMENT FOR M.O.T CONSTRUCTED IN PHASE 1, AS PER THE MOT PHASE 2 DETAIL SHEETS P.39 - P. 42. CONSTRUCT WIDENING, DRAINAGE, CURB, AND FULL-DEPTH PAVEMENT ON THE LEFT SIDE OF S.R. 435 FROM THE BEGINNING OF THE PROJECT TO THE END. DRIVES ON BLUEGRASS SHALL BE MAINTAINED PART-WIDTH DURING CONSTRUCTION. MAINTAIN ACCESS TO MEDFLIGHT9 DRIVE AT ALL TIMES AND COORDINATE WITH OPERATIONS.

ON BRIDGE FAY-035-0435 OVER US 35 HYDRODEMO AND OVERLAY LEFT HALF OF BRIDGE DECK. CONSTRUCT ROUNDABOUT AND PORTIONS OF THE APPROACHES AND DRAINAGE ON THE NORTHWEST QUADRANT, INCLUDING EXTENSION OF 9FT SPAN x 5FT RISE BOX CULVERT (BU-7). FOR TEMPORARY MODIFICATIONS TO THE EXISTING SIGNAL AT SR 729 AND SR435 SEE SHEET P. 69. SEE SHEETS P.36 - P. 44. FOR PHASE DETAILS.

PHASE 3
SHIFT SR 435 TRAFFIC TO THE NORTH (LEFT) SIDE ON THE PAVEMENT AND BRIDGE DECK CONSTRUCTED IN PHASE 2. THE SR 435 WEST APPROACH AND BLUEGRASS NORTH APPROACH TO THE ROUNDABOUT WILL USE THE APPROACH PAVEMENT CONSTRUCTED IN PHASE 2. THE SR 435 EAST APPROACH TO THE ROUNDABOUT WILL UTILIZE THE EXISTING PAVEMENT AND TEMPORARY SPLITTER ISLAND ARRANGEMENT. THE SR 729 APPROACH WILL BE CLOSED FOR A PERIOD NOT TO EXCEED 30 CONSECUTIVE CALENDAR DAYS, FROM 9/1/2024 TO 10/1/2024. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $1000 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT. SEE SHEET P. 71 FOR SR 729 DETOUR PLAN.

DRIVES ON BLUEGRASS SHALL BE MAINTAINED PART-WIDTH DURING CONSTRUCTION. MAINTAIN ACCESS TO MEDFLIGHT9 ALL TIMES AND COORDINATE WITH OPERATIONS.

ON BRIDGE FAY-035-0435 OVER US 35 COMPLETE THE HYDRODEMO AND OVERLAY ON THE RIGHT HALF OF THE BRIDGE DECK. CONSTRUCT THE REMAINING PORTION OF THE SR 435 WEST APPROACH AND BLUEGRASS NORTH APPROACH TO THE ROUNDABOUT. CONSTRUCT THE SR 435 EAST APPROACH TO THE ROUNDABOUT BY PART-WIDTH. COMPLETE THE SR 729 APPROACH TO THE ROUNDABOUT. SEE SHEETS P. 45 - P. 53 FOR PHASE DETAILS.

PHASE 4
OPEN SR 435 TO 4 LANES UP TO THE SR 435 WEST APPROACH TO THE ROUNDABOUT. COMPLETE THE SPLITTER ISLANDS ON THE SR 435 WEST APPROACH AND BLUEGRASS NORTH APPROACH TO THE ROUNDABOUT. SPLIT THE SR 435 EAST APPROACH TO THE ROUNDABOUT, THE OUTBOUND MOVEMENT WILL UTILIZE THE PHASE 3 LANE LOCATION, AND THE INBOUND MOVEMENT WILL UTILIZE THE LEFT HALF OF THE APPROACH CONSTRUCTED IN PHASE 3. COMPLETE THE SPLITTER ISLAND AND PAVEMENT ON THE SR 435 EAST APPROACH TO THE ROUNDABOUT. OPEN SR 729 ON THE APPROACH TO THE ROUNDABOUT COMPLETED IN PHASE 3.

DRIVES ON BLUEGRASS SHALL BE MAINTAINED PART-WIDTH DURING CONSTRUCTION. MAINTAIN ACCESS TO MEDFLIGHT9 ALL TIMES AND COORDINATE WITH OPERATIONS.

SEE SHEETS P. 54 - P. 60 FOR PHASE DETAILS.

PHASE 5
PLACE FINAL SURFACE COURSE ON COMPLETED PAVEMENTS, FINAL GRADING, AND OTHER ANCILLARY ITEMS NOT COMPLETED IN PRIOR PHASES.

RAMP D – WB US-35 OFF-RAMP
RAMP D - PHASES 1 THRU PHASE 3 SHALL BE PERMITTED FOR A TOTAL DURATION OF 60 CONSECUTIVE CALENDAR DAYS. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $5000 PER DAY FOR EACH CALENDAR DAY THE LANE REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

RAMP D - PHASE 3A
SHIFT TRAFFIC ON RAMP D TO THE OUTSIDE AS SHOWN ON SHEETS P.61 - P.62 AND CONSTRUCT FULL-DEPTH PAVEMENT WIDENING TO STA. 242+50 AND PAVEMENT FOR MOT FROM STA. 243+00 TO STA. 248+31 (THE EXISTING RAMP GORE) ON THE INSIDE OF THE RAMP. TEMPORARILY EXTEND CULVERT PER THE DETAILS ON SHEET P. 223. PROVIDE SIGNAGE ON W.B. US-35 AS PER SCD MT-98.28

RAMP D - PHASE 3B
SHIFT TRAFFIC ON RAMP D TO THE INSIDE TO THE PAVEMENT AND PAVEMENT FOR MOT CONSTRUCTED IN PHASE 1 AS SHOWN ON SHEETS P.63 - P.64 AND CONSTRUCT FULL-DEPTH PAVEMENT ON THE OUTSIDE OF THE RAMP. DEFER 3'-0" INSIDE SHOULDER FROM STA. 243+00 TO STA. 248+31 TO BE BUILT IN PHASE 3. PROVIDE SIGNAGE ON W.B. US-35 AS PER SCD MT-98.21

RAMP D - PHASE 3C
SHIFT TRAFFIC ON RAMP D TO THE OUTSIDE THE PAVEMENT COMPLETED IN PHASE 2 AS SHOWN ON SHEETS P.65 - P.66 AND CONSTRUCT REMAINING 3'-0" INSIDE FULL-DEPTH SHOULDER FROM STA 243+00 TO 248+31. REMOVE PAVEMENT FOR MOT. PROVIDE SIGNAGE ON W.B. US-35 AS PER SCD MT-98.28. INSTALL TEMPORARY SIGNAL AT RAMP D AND SR 435 AS DETAILED ON SHEET P. 66 – P. 67.

NO WORK SHALL BE PERFORMED AND THE SAME NUMBER OF LANES AS WERE AVAILABLE AT THE START OF THE PROJECT SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR SPECIAL EVENTS:

HOLIDAYS :
NEW YEAR'S (OBSERVED)
MEMORIAL DAY
FOURTH OF JULY (OBSERVED)
LABOR DAY
GENERAL/REGULAR ELECTION DAY (NOV.)
THANKSGIVING
CHRISTMAS (OBSERVED)

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

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

NEWLY CONSTRUCTED LANE ADDITIONS, ONCE COMPLETED AND INITIALLY OPENED TO TRAFFIC, SHALL BE OPEN TO TRAFFIC DURING ALL SUBSEQUENT DESIGNATED HOLIDAYS AND SPECIAL EVENTS, AND RELATED PERIODS OF TIME, SPECIFIED ABOVE. 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 PER THE LANE VALUE CONTRACT ON SHEET P. 20.

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

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

COORDINATION BETWEEN CONTRACTORS

COORDINATION WILL BE REQUIRED WITH ADJACENT ODOT PROJECTS. ODOT WILL HAVE MULTIPLE ONGOING PROJECTS IN THE AREA, INCLUDING BUT NOT LIMITED TO:

FAY-71-0.00, PID 112747
CLI-729-2.85 AND VARIOUS, PID 77922

THE CONTRACTOR MUST COORDINATE FULL-CLOSURES AND SIGNIFICANT MOT IMPACTS WITH THE ENGINEER & CONTRACTOR(S) FOR ALL ADJACENT PROJECTS.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM SPECIAL HAULING (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS. INFORMATION SHALL INCLUDE BUT IS NOT LIMITED TO ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, DETOUR ROUTES IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME FRAME TABLE

ITEM	DURATION OF CLOSURE	NOTIFICATION DUE TO DISTRICT 6 PIO	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURES	>=2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS &< 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE	7 CALENDAR DAYS PRIOR TO CLOSURE
	<=12 HOURS	4 CALENDAR DAYS PRIOR TO CLOSURE	2 CALENDAR DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>=2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE	
	< 2 WEEKS	5 CALENDAR DAYS PRIOR TO CLOSURE	
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION	

WRECKER AND EMERGENCY VEHICLE ACCESS

THE DBT SHALL MAKE PROVISIONS TO ASSIST IN THE ACCESS OF WRECKERS AND EMERGENCY VEHICLES THROUGHOUT THE WORK ZONE. THIS MAY INCLUDE, BUT NOT LIMITED TO, PROVIDING FLAGGERS OR REMOVING SECTIONS OF BARRIER TO ALLOW EMERGENCY VEHICLES AND WRECKER TO MOVE THROUGH PORTIONS OF THE WORK ZONE TO REACH ACCIDENTS AND/OR BREAKDOWNS. THE INTENT IS TO MINIMIZE EXTENDED DELAYS TO THE TRAVELLING PUBLIC AND TO PROVIDE QUICKER RESPONSE TIMES FOR WRECKERS AND EMERGENCY VEHICLES.

NOTIFICATION OF CONSTRUCTION INITIATION

AT LEAST FOURTEEN DAYS PRIOR TO STARTING INITIAL CONSTRUCTION ACTIVITIES, THE DBT SHALL ADVISE THE DISTRICT 6 PUBLIC INFORMATION OFFICE VIA EMAIL AT D06.PIO@DOT.OHIO.GOV, THE DISTRICT WORK ZONE TRAFFIC MANAGER VIA EMAIL AT D06.MOT@DOT.OHIO.GOV AND THE CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION BY FAX AT (614)728-4099 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, PID, NAME AND PHONE NUMBER OF THE DBT, A POINT OF CONTACT AND THE ANTICIPATED IMPACT ON TRAFFIC. THE DBT WILL IMMEDIATELY INFORM THE DISTRICT PUBLIC INFORMATION OFFICE AND THE DISTRICT WORK ZONE TRAFFIC MANAGER OF ANY AND ALL DELAYS AND/OR CHANGES REGARDING THE CONSTRUCTION INITIATION DATE.

MAINTENANCE OF TRAFFIC NOTES (BU-5)

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD. SUITE B
CINCINNATI,OH 45249
513-469-1600
DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955

FAY-435-1.52
MODEL: Sheet 1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:29:41 PM USER: dan-f
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SHORT DURATION RAMP CLOSURES

FOR THE PURPOSE OF PERFORMING THE REQUIRED WORK, RAMPS MAY BE CLOSED FOR SHORT DURATIONS AND DETOURED IN ACCORDANCE WITH THE RAMP CLOSURE TABLE IF APPROVED BY THE ENGINEER. RAMP CLOSURES ARE SUBJECT TO A DISINCENTIVE OF $50 PER MINUTE FOR EACH MINUTE EXCEEDING THE ALLOWABLE CLOSURE DURATION.

FOR ALL RAMP CLOSURES LASTING MORE THAN 12 HOURS BUT LESS THAN 60 HOURS, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING:

-A MINIMUM OF TWO PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) PLACED, AS DIRECTED BY THE ENGINEER, TO WARN DRIVERS OF THE CLOSURE AND TO PROVIDE THE DESIGNATED DETOUR ROUTE.

-POSITIVE GUIDANCE ALONG THE DETOUR ROUTE WITH DETOUR SIGNS (M4-9 SERIES).

FOR ALL SERVICE RAMP CLOSURES LASTING LESS THAN 12 HOURS, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING:
-A MINIMUM OF TWO PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) PLACED, AS DIRECTED BY THE ENGINEER, TO WARN DRIVERS OF THE CLOSURE AND TO PROVIDE THE DESIGNATED DETOUR ROUTE. WHEN CLOSING ENTRANCE RAMPS, CORRESPONDING LEAD

RAMP CLOSURES FOR CONCRETE PAVEMENT TIE-IN

THE CONTRACTOR SHALL BE PERMITTED ONE "WEEKEND" CLOSURE PER RAMP BEING RECONSTRUCTED OR WIDENED WITH CONCRETE PAVEMENT (RAMP D) TO TIE INTO THE MAINLINE PAVEMENT. "WEEKEND" CLOSURE IS DEFINED AS A FULL CLOSURE OF THE RAMP FROM 10PM FRIDAY TO 5AM MONDAY (55 HOURS TOTAL).

RAMP CLOSURE RESTRICTIONS

US Route 35 in Fayette County					
Secondary Route: State Route 435 SLM along 35:					
RAMP DESIGNATION	MOVEMENT	NO CLOSURES ALLOWED		DETOUR ROUTES	
		MON-FRI	SAT-SUN	PRIMARY DETOUR ROUTE	SECONDARY DETOUR ROUTE
C	SR-435 to US-35 EB	5AM-10PM	6AM-10PM	SR-435 WB to US-35 WB to SR-72 SB to US-35 EB	SR-435 EB to Old US-35* EB to Palmer Rd WB to US-35 EB
D	US-35 WB to SR-435	5AM-10PM	6AM-10PM	US-35 WB to SR-72 SB to US-35 EB to SR-435	US-35 WB to Old US-35* WB to SR-435

RAMP NAME	RESTRICTED ACTIVITY	ALLOWABLE DURATION	DISINCENTIVE (AMOUNT PER CALENDAR DAY THE RESTRICTION REMAINS IN PLACE BEYOND ALLOWABLE DURATION SPECIFIED
RAMP D	LANE & SHOULDER WIDTH REDUCTION	60 DAYS	$5,000/DAY

LANE CLOSURE RESTRICTIONS

LANE VALUE CONTRACT TABLE						
SECTION (SLM)	EXISTING NUMBER OF LANES PER DIRECTION	LANE CLOSURES ARE ***NOT*** PERMITTED:				DISINCENTIVE AMOUNTS PER MINUTE
		Lane Reduction	Mon to Fri	Sat	Sun	
FAY-435						
Factory Shops Blvd (1.96) to US 35 (2.48) Eastbound	1	2 to 1	6AM-9AM & 4PM-6PM	6AM-9AM & 4PM-6PM	6AM-9AM & 4PM-6PM	$100
US 35 (2.48) to SR 729 (3.97)	1	2 to 1	6AM-9AM & 4PM-6PM	6AM-9AM & 4PM-6PM	6AM-9AM & 4PM-6PM	$25
FAY-435 (4.37) to SR 739 (17.23)	2	2 TO 1	No Restriction	No Restriction	No Restriction	$25

FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING 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 SUBBASE 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.

MAINTENANCE OF TRAFFIC (SIGNAL/FLASHER INSTALLATION)

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC SIGNAL/FLASHER INSTALLATIONS WITHIN THE PROJECT UNDER THE FOLLOWING CONDITIONS:

1. EXISTING SIGNAL/FLASHER INSTALLATIONS WHICH THE APPROVED PLANS REQUIRE THE CONTRACTOR TO ADJUST, MODIFY, ADD ONTO OR REMOVE, OR WHICH THE CONTRACTOR ACTUALLY ADJUSTS, MODIFIES OR OTHERWISE DISTURBS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE INSTALLATION (AT AN INTERSECTION) FROM THE TIME THE CONTRACTOR'S OPERATIONS FIRST DISTURB THE INSTALLATION UNTIL THE INSTALLATION HAS BEEN SUBSEQUENTLY REMOVED OR MODIFIED AND THE WORK IS ACCEPTED.

2. NEW OR REUSED SIGNAL/FLASHER INSTALLATIONS OR DEVICES INSTALLED BY THE CONTRACTOR: THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THESE FROM THE TIME OF INSTALLATION UNTIL THE WORK IS ACCEPTED.

THE CONTRACTOR SHALL CORRECT AS QUICKLY AS POSSIBLE ALL OUTAGES OR MALFUNCTIONS. THE CONTRACTOR SHALL PROVIDE THE MAINTAINING AGENCY AND THE PROJECT ENGINEER SUCH ADDRESSES AND PHONE NUMBERS WHERE HIS MAINTENANCE FORCES CAN BE CONTACTED. THE CONTRACTOR SHALL PROVIDE ONE OR MORE PERSONS TO RECEIVE ALL CALLS AND DISPATCH THE NECESSARY MAINTENANCE FORCES TO CORRECT OUTAGES. SUCH A PERSON OR PERSONS MAY BE USED TO PERFORM OTHER DUTIES AS LONG AS PROMPT ATTENTION IS GIVEN TO THESE CALLS AND A PERSON IS READILY AVAILABLE CONTINUOUSLY 24 HOURS A DAY, 7 DAYS A WEEK. ALL LAMP OUTAGES, CABLE OUTAGES, ELECTRICAL FAILURES, EQUIPMENT MALFUNCTIONS AND MISALIGNED SIGNAL HEADS SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK TO SERVICE WITHIN FOUR HOURS AFTER THE CONTRACTOR HAS BEEN NOTIFIED OF THE OUTAGE.

IN THE EVENT NEW SIGNALS ARE DAMAGED PRIOR TO ACCEPTANCE, ALL DAMAGED EQUIPMENT EXCEPT POLES AND CONTROL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK IN SERVICE WITHIN 8 HOURS AFTER THE CONTRACTOR'S NOTIFICATION OF THE OUTAGE. THE CONTRACTOR SHALL ARRANGE FOR FULL TRAFFIC CONTROL UNTIL THE SIGNAL IS BACK IN OPERATION. IF POLES AND/OR CONTROL EQUIPMENT ARE DAMAGED AND MUST BE REPLACED, THE CONTRACTOR SHALL MAKE TEMPORARY REPAIRS AS NECESSARY TO BRING THE SIGNAL BACK INTO FULL OPERATION WITHIN THE ALLOWED 8-HOUR PERIOD AND SHALL MAKE PERMANENT REPAIRS OR REPLACEMENT AS SOON THEREAFTER AS POSSIBLE.

NONE OF THE ABOVE SHALL BE CONSTRUED AS COLLECTIVE OR CONSECUTIVE OUTAGE TIME PERIODS AT ANY ONE LOCATION. THAT IS, WHERE MORE THAN ONE OUTAGE OCCURS AT ANY ONE LOCATION THEN THE ALLOTTED TIME LIMIT SHALL BE FOR THE WORST SINGLE OUTAGE.

WHERE OUTAGES ARE THE DIRECT RESULT OF A VEHICLE ACCIDENT THE RESPONSE OF THE CONTRACTOR SHALL BE AS OUTLINED ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTION OF ANY COMPENSATION FOR THIS WORK FROM THOSE PARTIES RESPONSIBLE FOR THE DAMAGE.

WHERE THE CONTRACTOR HAS FAILED TO, OR CANNOT RESPOND TO, AN OUTAGE OR SIGNAL EQUIPMENT MALFUNCTION, AT THESE LOCATIONS WITHIN HIS RESPONSIBILITY, WITHIN PERIODS AS SPECIFIED ABOVE, THE ENGINEER MAY INVOKE THE PROVISIONS OF SECTION 105.15 AND ANY SUBSEQUENT BILLINGS TO THE STATE OR APPROPRIATE MUNICIPALITY FOR POLICE SERVICES AND MAINTENANCE SERVICES BY STATE (OR MUNICIPAL) FORCES SHALL BE DEDUCTED FROM MONIES DUE OR TO BECOME DUE THE CONTRACTOR IN ACCORDANCE WITH PROVISIONS OF SECTION 105.15.

ANY VEHICULAR TRAFFIC SIGNAL HEAD, EITHER NEW OR EXISTING WHICH WILL BE OUT OF OPERATION SHALL BE COVERED IN THE MANNER DESCRIBED IN CMS 632.25.

THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS OF MALFUNCTIONS INCLUDING:

TIME OF NOTIFICATION OF MALFUNCTION;

TIME OF WORK CREWS ARRIVAL TO CORRECT THE MALFUNCTION;

ACTIONS TAKEN TO CORRECT THE MALFUNCTION, INCLUDING A LIST OF PARTS REPAIRED OR REPLACED;

A DIAGNOSIS OF REASON FOR THE MALFUNCTION AND PROBABILITY OF REOCCURRENCE;

TIME OF COMPLETION OF THE REPAIR AND SYSTEM RESTORED TO FULL SERVICE.

A COPY OF THESE RECORDS SHALL BE PROVIDED TO THE ENGINEER WITHIN THREE (3) WORKING DAYS FOLLOWING COMPLETION OF EACH REPAIR.

TEMPORARY SIGNAL VEHICLE DETECTION AND MAINTENANCE

THE CONTRACTOR SHALL PROVIDE VEHICLE DETECTION IN ALL M.O.T. PHASES AT THE EXISTING TRAFFIC SIGNALS. THE CONTRACTOR SHALL ENSURE THAT THE EXISTING DETECTION IS OPERATING AND MAINTAINED BY RECONFIGURING THE DETECTION UNITS ACCORDINGLY DURING ALL CONSTRUCTION PHASES. RADAR VEHICLE DETECTION EXISTS AT THE EXISTING SIGNALS. IF VEHICLE DETECTION BECOMES UNAVOIDABLY OR UNEXPECTEDLY DISABLED OR IS SCHEDULED TO BE TEMPORARILY REMOVED DURING THE CONSTRUCTION PROJECT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.

MAINTENANCE OF TRAFFIC NOTES (BU-5)

FAY-435-1.52
MODEL: Sheet 2 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:29:43 PM USER: dan-f
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REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 20 TOTAL 246

WORKSITE TRAFFIC SUPERVISOR

SUBJECT TO APPROVAL OF THE ENGINEER, THE CONTRACTOR SHALL EMPLOY AND IDENTIFY (SOMEONE OTHER THAN THE SUPERINTENDENT) A PREQUALIFIED WORKSITE TRAFFIC SUPERVISOR (WTS) BEFORE STARTING WORK IN THE FIELD. THE WTS SHALL BE TRAINED IN ACCORDANCE WITH CMS 614.03, SHALL HAVE SUCCESSFULLY COMPLETED ODOT ADMINISTERED WTS TESTING (AND RE-TESTING WHEN APPLICABLE) AND BE LISTED ON THE ODOT PREQUALIFIED WTS ROSTER. PREQUALIFICATION EXPIRES EVERY 5 YEARS. RE-TESTING SHALL BE SUCCESSFULLY REPEATED EVERY 5 YEARS TO REMAIN PREQUALIFIED.

THE NAME OF THE PREQUALIFIED WTS AND RELATED 24-HOUR CONTACT INFORMATION SHALL BE PROVIDED TO THE ENGINEER AT THE PRECONSTRUCTION CONFERENCE. IF THE DESIGNATED WTS WILL NOT BE AVAILABLE FULL TIME (24/7), THE CONTRACTOR MAY DESIGNATE AN ALTERNATE (SECONDARY) WTS TO BE AVAILABLE WHEN THE PRIMARY IS OFF DUTY; HOWEVER, THE PRIMARY WTS SHALL REMAIN THE POINT OF CONTACT AT ALL TIMES. ANY ALTERNATE (SECONDARY) WTS IS SUBJECT TO THE SAME TRAINING, PREQUALIFICATION AND OTHER REQUIREMENTS OUTLINED WITHIN THIS PLAN NOTE. AT ALL TIMES THE ENGINEER, OR ENGINEER'S REPRESENTATIVES, MUST BE INFORMED OF WHO THE PRIMARY WTS (AND SECONDARY WTS, IF APPLICABLE) IS AT THE CURRENT TIME.

THE WTS POSITION HAS THE PRIMARY RESPONSIBILITY OF IMPLEMENTING THE TRAFFIC MANAGEMENT PLAN (TMP), MONITORING THE SAFETY AND MOBILITY OF THE ENTIRE WORK ZONE, AND CORRECTING TEMPORARY TRAFFIC CONTROL (TTC) DEFICIENCIES FOR THE ENTIRE WORK ZONE. THE WTS, AND ALTERNATE WTS WHEN ON DUTY, SHALL HAVE SUFFICIENT AUTHORITY TO EFFECTIVELY CARRY OUT THE IDENTIFIED WTS RESPONSIBILITIES AND DUTIES. THE DUTIES OF THE WTS ARE AS FOLLOWS:

1. BE AVAILABLE ON A 24-HOUR PER DAY BASIS.

2. BE ON SITE FOR ALL EMERGENCY TTC NEEDS WITHIN ONE HOUR OF NOTIFICATION BY POLICE OR PROJECT STAFF, AND EFFECT CORRECTIVE MEASURES IMMEDIATELY ON EXISTING WORK ZONE TTC DEVICES.

3. ATTEND PRECONSTRUCTION MEETING AND ALL PROJECT MEETINGS WHERE TTC MANAGEMENT IS DISCUSSED.

4. BE AVAILABLE ON SITE FOR OTHER MEETINGS OR DISCUSSIONS WITH THE ENGINEER UPON REQUEST.

5. BE AWARE OF ALL EXISTING AND PROPOSED TTC OPERATIONS OF THE CONTRACTOR, SUBCONTRACTORS AND SUPPLIERS, AND ENSURE COORDINATION OCCURS BETWEEN THEM TO ELIMINATE CONFLICTING TEMPORARY AND/OR PERMANENT TRAFFIC CONTROL.

6. COORDINATE PROJECT ACTIVITIES WITH ALL LAW ENFORCEMENT OFFICERS (LEOS). THE WTS SHALL ALSO BE THE MAIN CONTACT PERSON WITH THE LEOS WHILE LEOS ARE ON THE PROJECT.

7. COORDINATE AND FACILITATE MEETINGS WITH ODOT PERSONNEL, LEOS AND OTHER APPLICABLE ENTITIES BEFORE EACH PLAN PHASE SWITCH TO DISCUSS THE WORK ZONE TTC FOR IMPLEMENTING THE PHASE SWITCH. SUBMIT A WRITTEN DETAIL OF MOT OPERATIONS AND SCHEDULE OF EVENTS TO IMPLEMENT THE SWITCH BETWEEN PHASE PLANS TO THE ENGINEER 5 CALENDAR DAYS PRIOR TO THIS MEETING.

8. BE PRESENT, ON SITE FOR, AND INVOLVED WITH, EACH TTC SET UP/TAKE DOWN AND EACH PHASE CHANGE IN ACCORDANCE WITH CMS 614.03.

9. ON A CONTINUAL BASIS ENSURE THAT THE TTC ZONE AND ALL RELATED DEVICES ARE INSTALLED, MAINTAINED AND REMOVED IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.

10. ON A CONTINUAL BASIS FACILITATE CORRECTIVE ACTION(S) NECESSARY TO BRING DEFICIENT TTC ZONES AND ALL RELATED DEVICES INTO COMPLIANCE WITH CONTRACT DOCUMENTS IN THE TIMEFRAME DETERMINED BY THE ENGINEER.

11. INSPECT, EVALUATE, PROPOSE NECESSARY MODIFICATIONS TO, AND DOCUMENT THE EFFECTIVENESS OF, THE TTC DEVICES AND TRAFFIC OPERATIONS ON A DAILY BASIS (7 DAYS A WEEK). IN ADDITION, PERFORM ONE WEEKLY NIGHT INSPECTION OF THE WORK ZONE SETUP FOR DAYTIME WORK OPERATIONS; AND ONE DAYTIME INSPECTION PER WEEK FOR NIGHTTIME PROJECTS. THIS SHALL INCLUDE (BUT NOT BE LIMITED TO) DOCUMENTATION ON THE FOLLOWING PROJECT EVENTS:

    A. INITIAL TTC SETUP (DAY AND NIGHT REVIEW).

    B. DAILY TTC SETUP AND REMOVAL.

    C. WHEN CONSTRUCTION STAGING CAUSES A CHANGE IN THE TTC SETUP.

    D. CRASH OCCURRENCES WITHIN THE CONSTRUCTION AREA AND WITHIN THE INFLUENCE AREA(S) APPROACHING THE WORK ZONE.

    E. REMOVAL OF TTC DEVICES AT THE END OF A PHASE OR PROJECT.

    F. ALL OTHER EMERGENCY TTC NEEDS.

12. COMPLETE THE DEPARTMENT APPROVED (CA-D-8) WITHIN GOFORMZ AFTER EACH INSPECTION AS REQUIRED IN # 11 AND SUBMIT IT TO THE ENGINEER BY THE END OF THE WORKDAY IN WHICH THE INSPECTION OCCURRED. THE CA-D-8 INCLUDES A CHECKLIST OF ALL TTC MAINTENANCE ITEMS TO BE REVIEWED. CONTACT GOFORMZ.HELP@DOT.OHIO.GOV TO OBTAIN A USER ACCOUNT. ANY DEFICIENCIES OBSERVED SHALL BE NOTED ON THE CA-D-8, ALONG WITH RECOMMENDED OR COMPLETED CORRECTIVE ACTIONS AND THE DATES BY WHICH SUCH CORRECTIONS WERE, OR WILL BE, COMPLETED. A COPY OF THE CURRENT CA-D-8 DOCUMENT CAN BE FOUND ON THE OFFICE OF CONSTRUCTION ADMINISTRATION'S INSPECTION FORMS WEBSITE.

13. HAVE COPIES OF THE ODOT TEMPORARY TRAFFIC CONTROL MANUAL AND CONTRACT DOCUMENTS AVAILABLE AT ALL TIMES ON THE PROJECT.

THE DEPARTMENT WILL DEDUCT:

A. THE PRORATED DAILY AMOUNT OF ITEM 614 MAINTAINING TRAFFIC FOR ANY DAY IN WHICH THE WTS FAILS TO PERFORM THE DUTIES SET FORTH ABOVE. THE PRORATED DAILY AMOUNT WILL BE EQUAL TO THE ORIGINAL BID AMOUNT FOR ITEM 614 MAINTAINING TRAFFIC DIVIDED BY THE DIFFERENCE BETWEEN THE ORIGINAL COMPLETION DATE AND THE FIRST DAY OF WORK, IN CALENDAR DAYS.

B. 1% OF THE ORIGINAL BID AMOUNT FOR ITEM 614 MAINTAINING TRAFFIC FOR ANY DAY THAT A FAILURE TO PERFORM WTS DUTIES REOCCURS OR A TTC ISSUE IS IDENTIFIED IN THE FIELD AND IS NOT CORRECTED IN THE GIVEN TIMEFRAME PER THE ENGINEER. DEDUCTION B SHALL NOT APPLY TO SITUATIONS COVERED BY DEDUCTION C.

C. 1% OF THE ORIGINAL BID AMOUNT FOR ITEM 614 MAINTAINING TRAFFIC FOR ANY DAY THAT A LANE OR RAMP IS BLOCKED (FULLY OR PARTIALLY) WITHOUT TTC, AS DETERMINED BY THE ENGINEER. THIS DEDUCTION SHALL BE IN ADDITION TO ANY OTHER DISINCENTIVES ESTABLISHED FOR UNAUTHORIZED LANE USE.

FOR DAYS IN WHICH MORE THAN ONE DEDUCTION LISTED ABOVE OCCUR, THE HIGHEST DEDUCTION AMOUNT WILL APPLY.

IF THREE OR MORE TOTAL DAYS RESULT IN ISSUES DESCRIBED IN DEDUCTION B OR C ABOVE, THE PRIMARY WTS (AND ANY ALTERNATE WTS, IF APPLICABLE) SHALL BE IMMEDIATELY REMOVED FROM THE WORK IN ACCORDANCE WITH C&MS 108.05. UPON REMOVAL THE ENGINEER SHALL NOTIFY ODOT CENTRAL OFFICE (WTSPREQUALIFICATION@DOT.OHIO.GOV) TO REGISTER A REMOVAL AT THE PROJECT LEVEL AGAINST THE STATEWIDE PREQUALIFICATION FOR THE PRIMARY WTS (AND ALTERNATE WTS, IF APPLICABLE). ACCUMULATION OF THREE PROJECT LEVEL REMOVALS (FROM ANY PROJECTS STATEWIDE) SHALL CAUSE STATEWIDE DISQUALIFICATION FOR ANY FORMERLY PREQUALIFIED WTS. A WTS (AND ALTERNATE WTS, IF APPLICABLE) MAY BE IMMEDIATELY AND CONCURRENTLY REMOVED FROM THE WORK AT THE PROJECT LEVEL IN ACCORDANCE WITH C&MS 108.05 AND DISQUALIFIED STATEWIDE FROM THE ODOT PREQUALIFIED WTS ROSTER (REGARDLESS OF THE NUMBER OF PROJECT LEVEL REMOVALS), AS WELL AS BEING SUBJECT TO OTHER POTENTIAL CONSEQUENCES, IN CASES OF FALSIFIED, DISHONEST OR OTHERWISE UNETHICAL ACTIVITY OR DOCUMENTATION.

PAYMENT FOR THE ABOVE REQUIREMENTS, RESPONSIBILITIES AND DUTIES SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

ITEM 614, WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN

WORK ZONE RAISED PAVEMENT MARKERS, AS PER PLAN, AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614 OR C&MS 621 AS SPECIFIED HEREIN.

RAISED PAVEMENT MARKERS IN USE DURING THE SNOW-PLOWING SEASON SHALL CONFORM TO 621.

RAISED PAVEMENT MARKERS IN USE DURING THE NON-SNOW-PLOW SEASON SHALL CONFORM TO EITHER 614 OR TO 621.

THE SNOW-PLOWING SEASON SHALL RUN FROM OCTOBER 31 THROUGH APRIL 1.

IF PROJECT DELAYS, NOT THE FAULT OF ODOT, CAUSE THE WORK TO EXTEND INTO THE SNOW-PLOWING SEASON, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WORK ZONE RAISED PAVEMENT MARKERS (WZRPMS) CONFORMING TO C&MS 614, WITH RAISED PAVEMENT MARKERS CONFORMING TO 621, AS DETERMINED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

ITEM 614, WORK ZONE RAISED PAVEMENT MARKERS ON PERMANENT CONCRETE SURFACES

RAISED PAVEMENT MARKERS IN WORK ZONES, INSTALLED ON PERMANENT CONCRETE SURFACES, SHALL BE ITEM 614 WORK ZONE RAISED PAVEMENT MARKERS. WZRPMS ARE INTENDED FOR USE ONLY DURING THE NON-SNOW-PLOWING SEASON. WZRPMS SHALL NOT BE PROVIDED DURING THE SNOW- PLOWING SEASON.

THE SNOW-PLOWING SEASON SHALL RUN FROM OCTOBER 31 THROUGH APRIL 1.

WHERE A TEMPORARY ALIGNMENT WILL REMAIN IN USE THROUGH THE WINTER, THE WZRPMS SHALL BE REMOVED PRIOR TO THE BEGINNING OF THE SNOW-PLOWING SEASON AND REPLACED APPROXIMATELY APRIL 1, OR AS OTHERWISE DETERMINED BY THE ENGINEER.

THIS ITEM SHALL INCLUDE PURCHASE, INSTALLATION AND REMOVAL OF ITEM 614 WORK ZONE RAISED PAVEMENT MARKERS.

MAINTENANCE OF TRAFFIC NOTES (BU-5)

DESIGN AGENCY
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REVIEWER DCJ 05/10/24

PROJECT ID 117955

SHEET P. 21 TOTAL 246

FAY-435-1.52

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ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

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

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

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

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

PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNEDOFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

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

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

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

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

THE CONTRACTOR SHALL MAINTAIN AT LEAST 4 PCMS FOR THE DURATION OF THE PROJECT.

DELINEATION OF PORTABLE AND PERMANENT BARRIER

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

DELINEATION OF TEMPORARY AND PERMANENT GUARDRAIL

BARRIER REFLECTORS SHALL BE INSTALLED ON ALL TEMPORARY GUARDRAIL USED FOR TRAFFIC CONTROL; AND, ON ALL PERMANENT GUARDRAIL LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE. BARRIER REFLECTORS SHALL CONFORM TO C&MS 626 AND THE SPACING SHALL BE APPROXIMATELY 50 FEET.

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.*
- *DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).*

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

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

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

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

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

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

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

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

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

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.

MAINTENANCE OF TRAFFIC NOTES (BU-5)

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

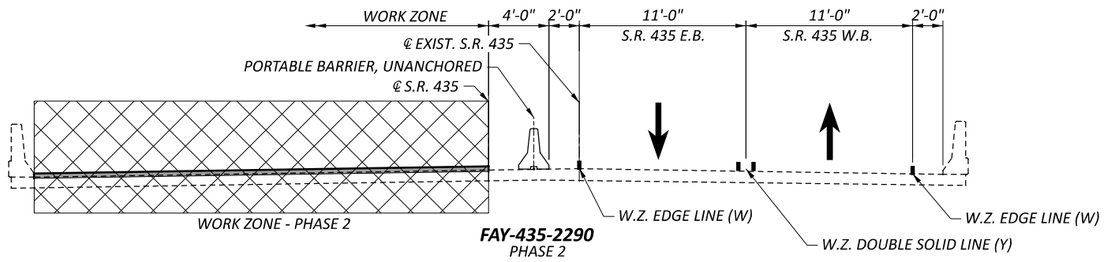
DESIGNER DPF

REVIEWER DCJ 05/10/24

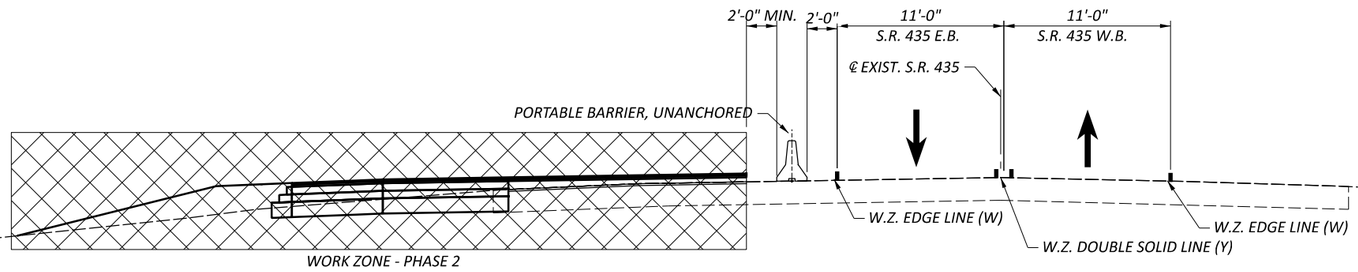
PROJECT ID 117955

SHEET P. 22 | TOTAL 246

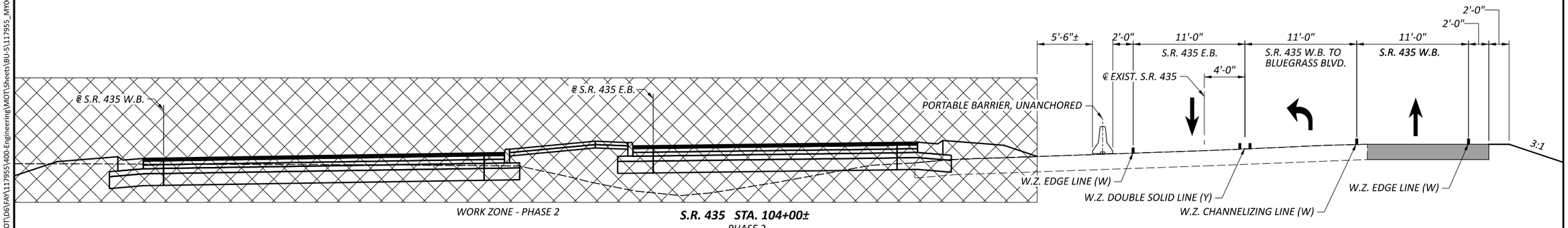
MODEL: Sheet 4 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:29:45 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\V00-Engineering\MOT\Sheets\BU-5\117955_MN001.dgn



FAY-435-2290
PHASE 2



S.R. 435 STA. 87+00±
PHASE 2



S.R. 435 STA. 104+00±
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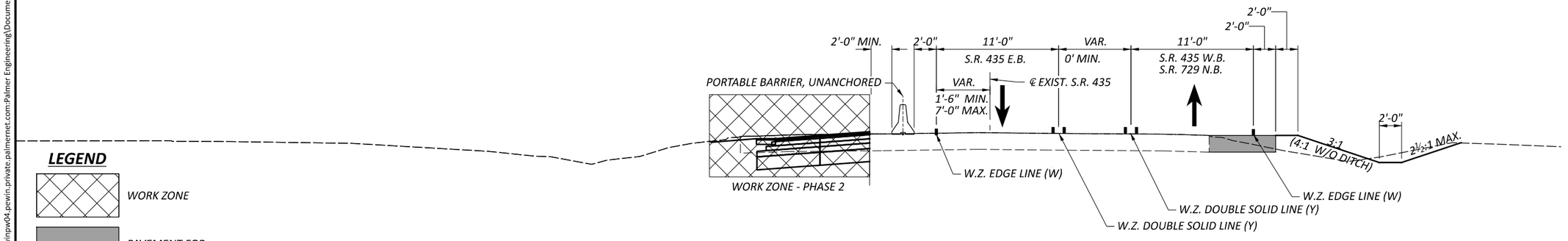

S.R. 435 STA. 113+50±
PHASE 2

LEGEND

WORK ZONE

PAVEMENT FOR M.O.T., CLASS A

MAINTENANCE OF TRAFFIC (BU-5)
TYPICAL SECTIONS - S.R. 435 - PHASE 2

FAY-435-1.52

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:29:54 PM USER: dan-f
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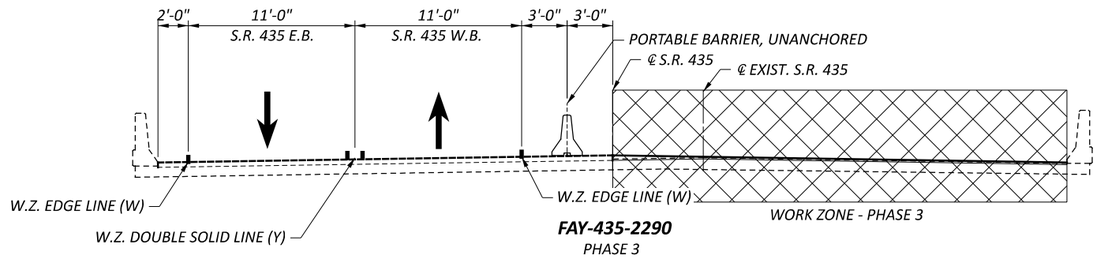
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI, OH 45249
513-469-1600

DESIGNER
DPF

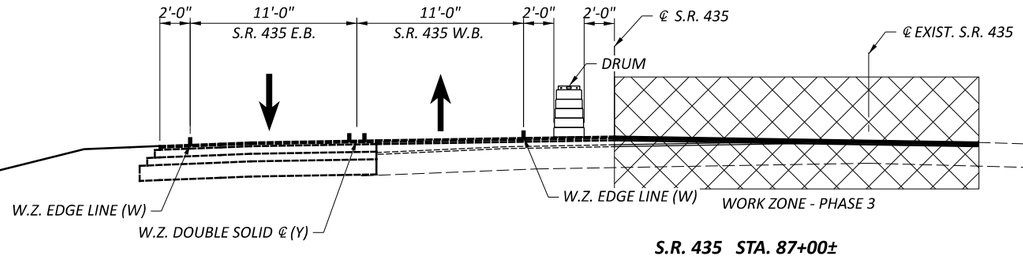
REVIEWER
DCJ 05/10/24

PROJECT ID
117955

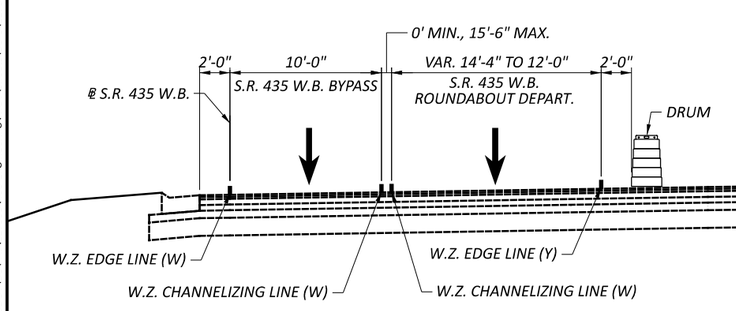
SHEET P. 23 | TOTAL 246



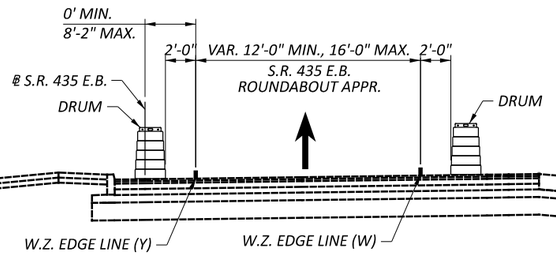
FAY-435-2290
PHASE 3

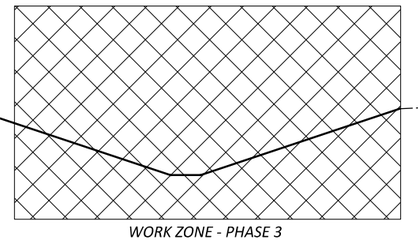


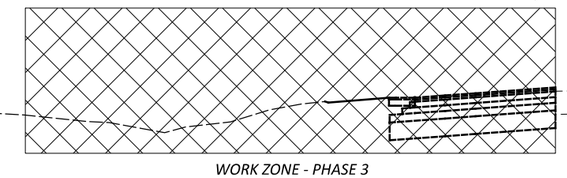
S.R. 435 STA. 87+00±
PHASE 3

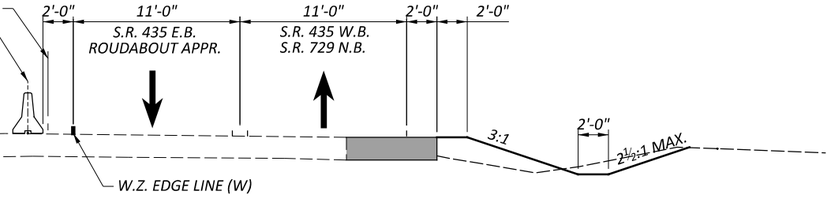


S.R. 435 STA. 104+00±
PHASE 3









S.R. 435 STA. 113+50±
PHASE 2 AND 3

LEGEND

WORK ZONE

PAVEMENT FOR M.O.T., CLASS A

MAINTENANCE OF TRAFFIC (BU-5)
TYPICAL SECTIONS - S.R. 435 - PHASE 3

DESIGN AGENCY
Palmer ENGINEERING
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SUITE B
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DESIGNER
DPF

REVIEWER
DCJ 05/10/24

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SHEET P. 24 | TOTAL 246

FAY-435-1.52

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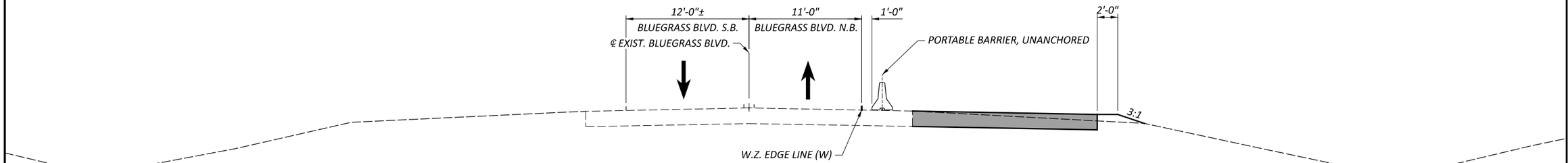
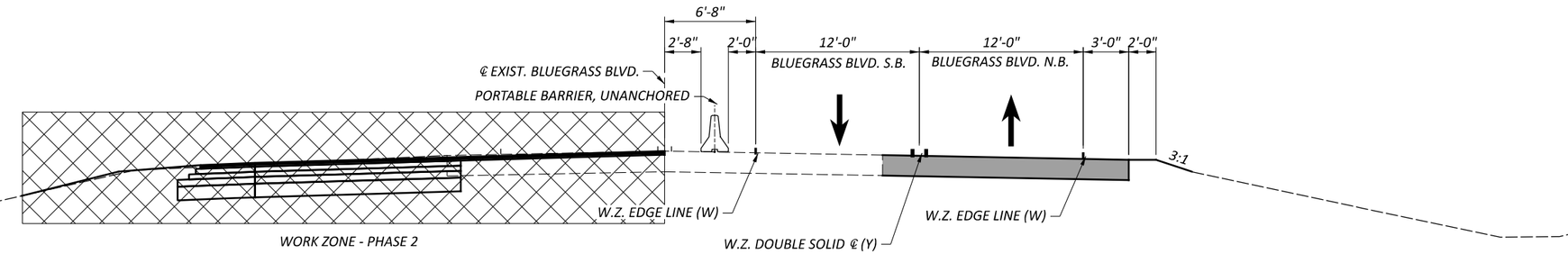
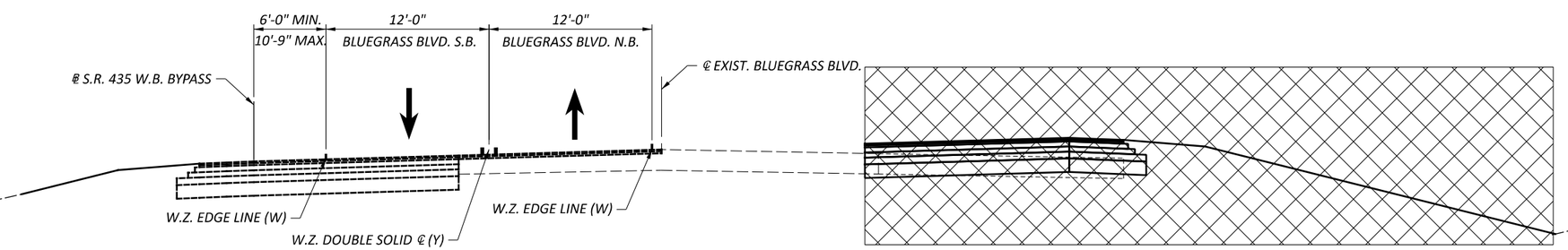


BLUEGRASS BLVD. STA. 190+00±
PHASE 1



BLUEGRASS BLVD. STA. 190+00±
PHASE 2



BLUEGRASS BLVD. STA. 190+00±
PHASE 3

LEGEND

WORK ZONE

PAVEMENT FOR M.O.T., CLASS A

MAINTENANCE OF TRAFFIC (BU-5)
TYPICAL SECTIONS - BLUEGRASS BLVD - PHASES 1 - 3

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SUITE B
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DPF

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PROJECT ID
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SHEET P. 25 | TOTAL 246

FAY-435-1.52

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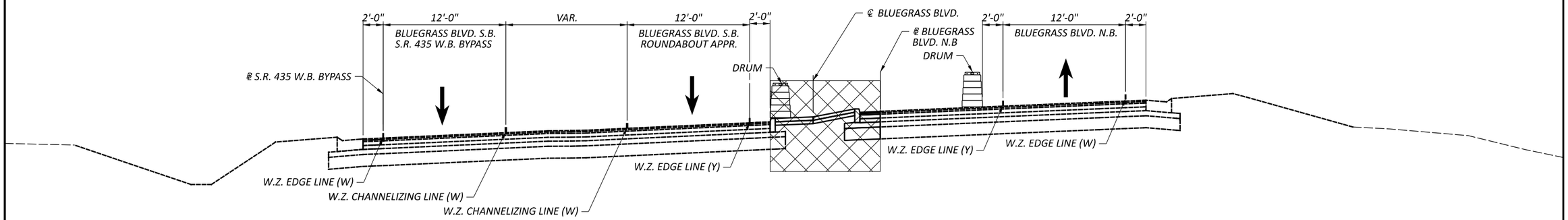
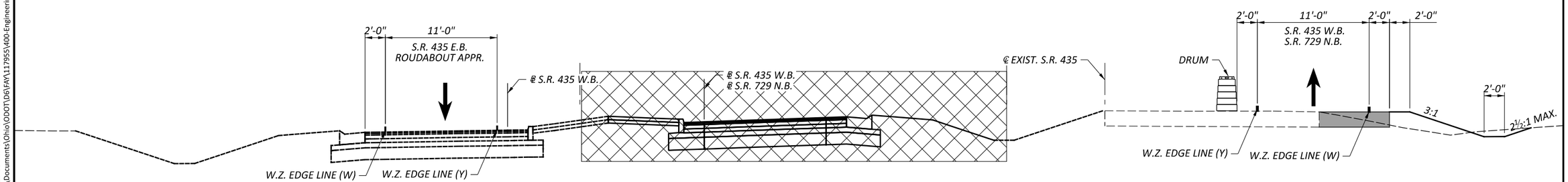


BLUEGRASS BLVD. STA. 186+50±

PHASE 4



S.R. 435 STA. 111+00±

PHASE 4

LEGEND

WORK ZONE

PAVEMENT FOR M.O.T., CLASS A

MAINTENANCE OF TRAFFIC (BU-5)
TYPICAL SECTIONS - S.R. 435/BLUEGRASS BLVD - PHASE 4

FAY-435-1.52

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DESIGN AGENCY
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8350 E. KEMPER RD.
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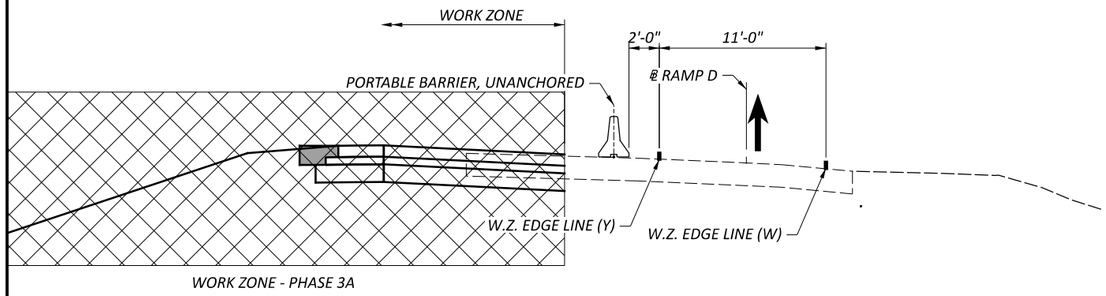
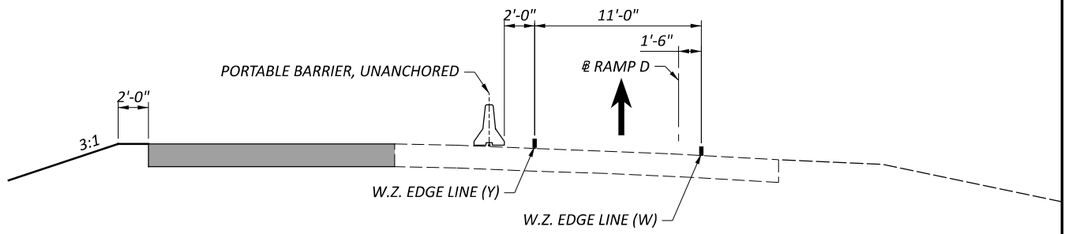
CINCINNATI,OH 45249
513-469-1600

DESIGNER	DPF
REVIEWER	DCJ 05/10/24
PROJECT ID	117955
SHEET	P. 26
TOTAL	246



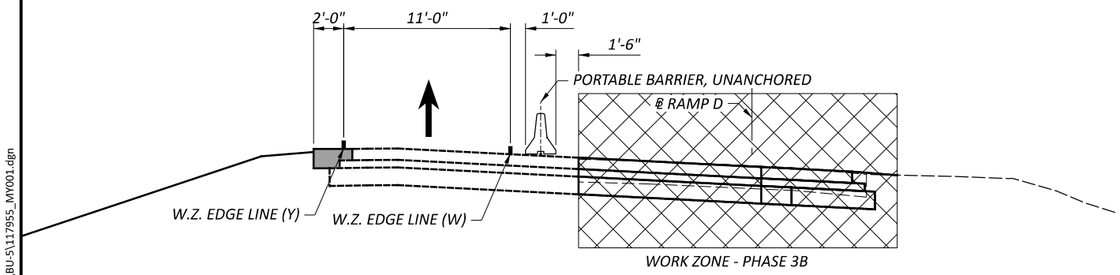
RAMP D - STA. 239+50±

PHASE 3A



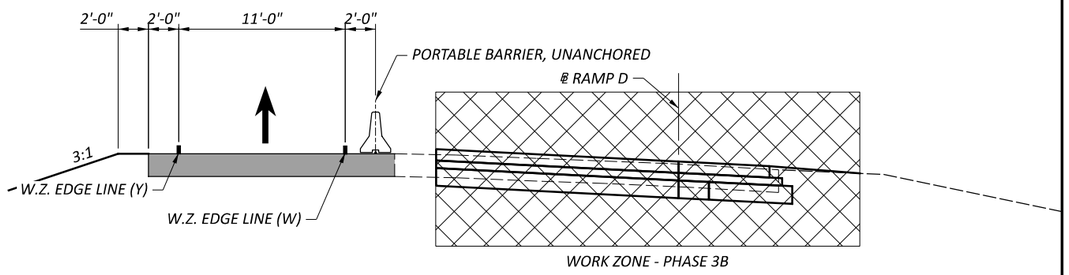
RAMP D - STA. 246+00±

PHASE 3A



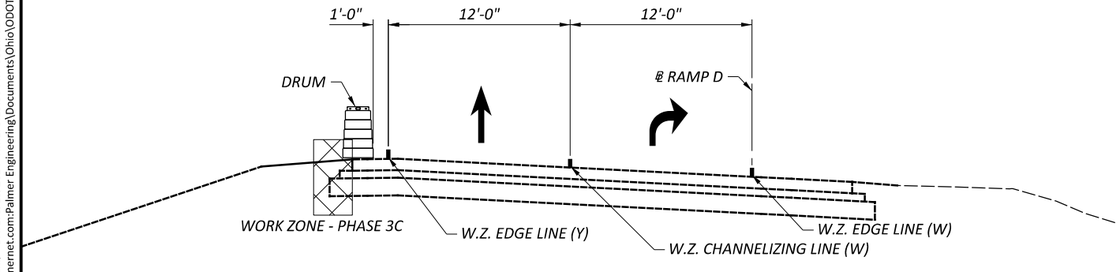
RAMP D - STA. 239+50±

PHASE 3B



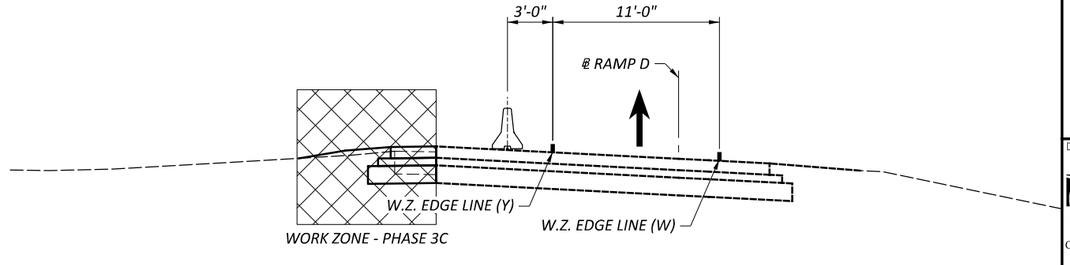
RAMP D - STA. 246+00±

PHASE 3B



RAMP D - STA. 239+50±

PHASE 3C



RAMP D - STA. 246+00±

PHASE 3C

LEGEND

WORK ZONE

PAVEMENT FOR M.O.T., CLASS A

MAINTENANCE OF TRAFFIC (BU-5)
TYPICAL SECTIONS - RAMP D - PHASES 3A - 3C

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER: DPF

REVIEWER: DCJ 05/10/24

PROJECT ID: 117955

SHEET: P. 27 TOTAL: 246

FAY-435-1.52

MODEL: Sheet 5 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:29:56 PM USER: dan-f
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HATCH LEGEND

PROPOSED WORK ZONE

PAVEMENT FOR M.O.T., CLASS A

SIGN LEGEND

REMOVE AND DISPOSE OF EXISTING SIGN

EXISTING SIGN TO REMAIN

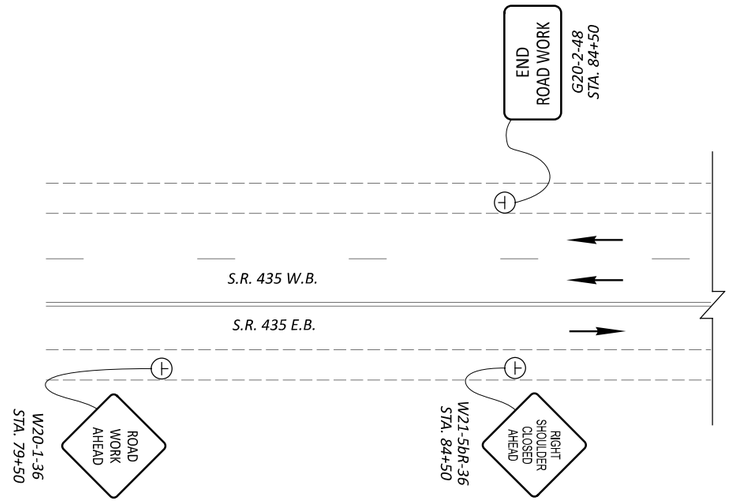
PROPOSED SIGN

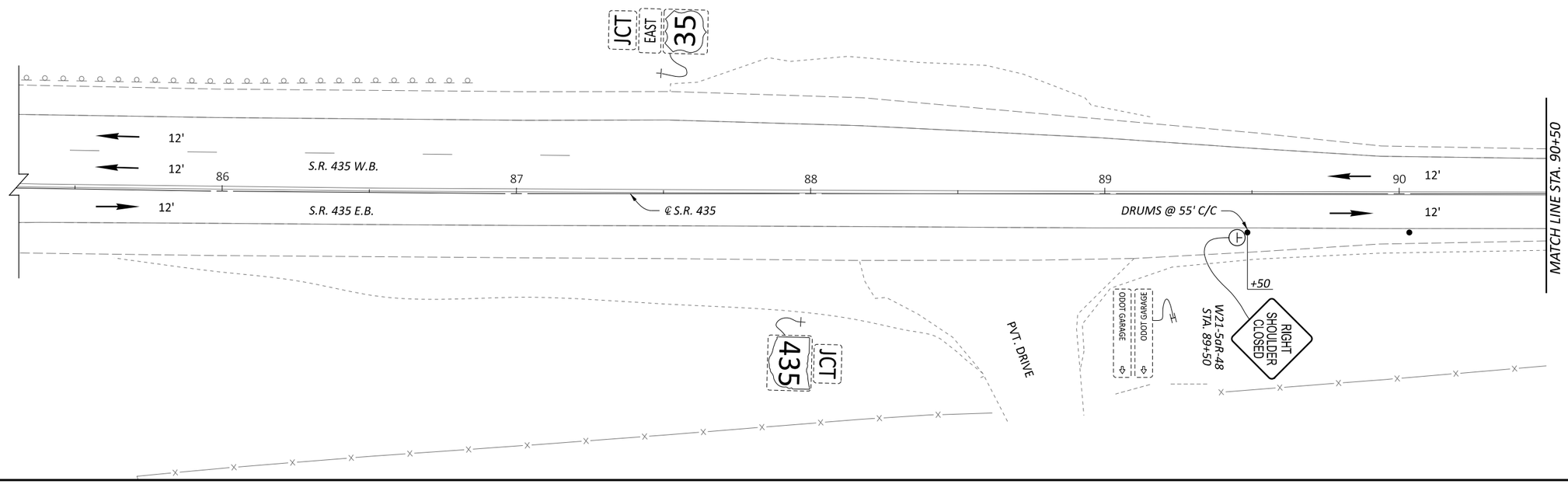
COVER EXISTING SIGN

xxx = REMOVAL OF EXISTING PAVEMENT MARKINGS

BALLOON LEGEND

EY	WORK ZONE EDGE LINE (Y), 4"	PB	PORTABLE BARRIER, UNANCHORED	WD	WORK ZONE DOTTED LINE, (W), 4"
EW	WORK ZONE EDGE LINE (W), 4"	IM	ISLAND MARKING	YD	WORK ZONE DOTTED LINE, (Y), 4"
SL	WORK ZONE STOP LINE (W) 24"	CH	CHANNELIZING LINE, 8"	WZIA	WORK ZONE IMPACT ATTENUATOR
DY	WORK ZONE DOUBLE SOLID LINE, (Y), 4"	AR	LANE ARROW		





HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC (BU-5)
PHASE 1 - S.R. 435 STA. 79+50 TO STA. 90+50

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF

REVIEWER DCJ 05/10/24

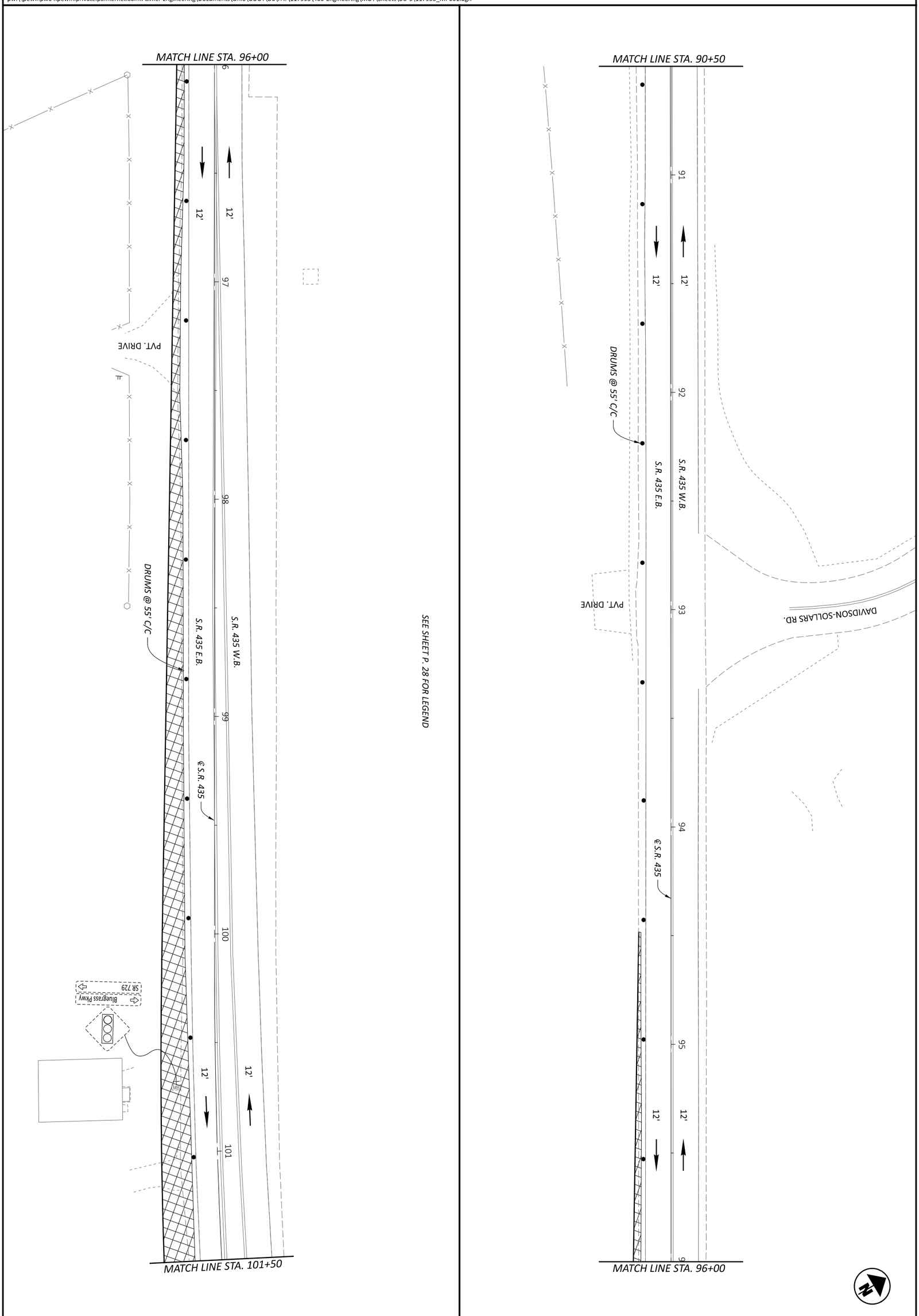
PROJECT ID 117955

SHEET P. 28 | TOTAL 246

FAY-435-1.52

MODEL: 1-Sheet PH1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:06 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\MOT\Sheets\BU-5\117955_MP001.dgn

MODEL: 2-Sheet PH1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:07 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\MOT\Sheets\BU-5\117955_MP001.dgn



MAINTENANCE OF TRAFFIC (BU-5)
PHASE 1 - S.R. 435 STA. 90+50 TO STA. 101+50

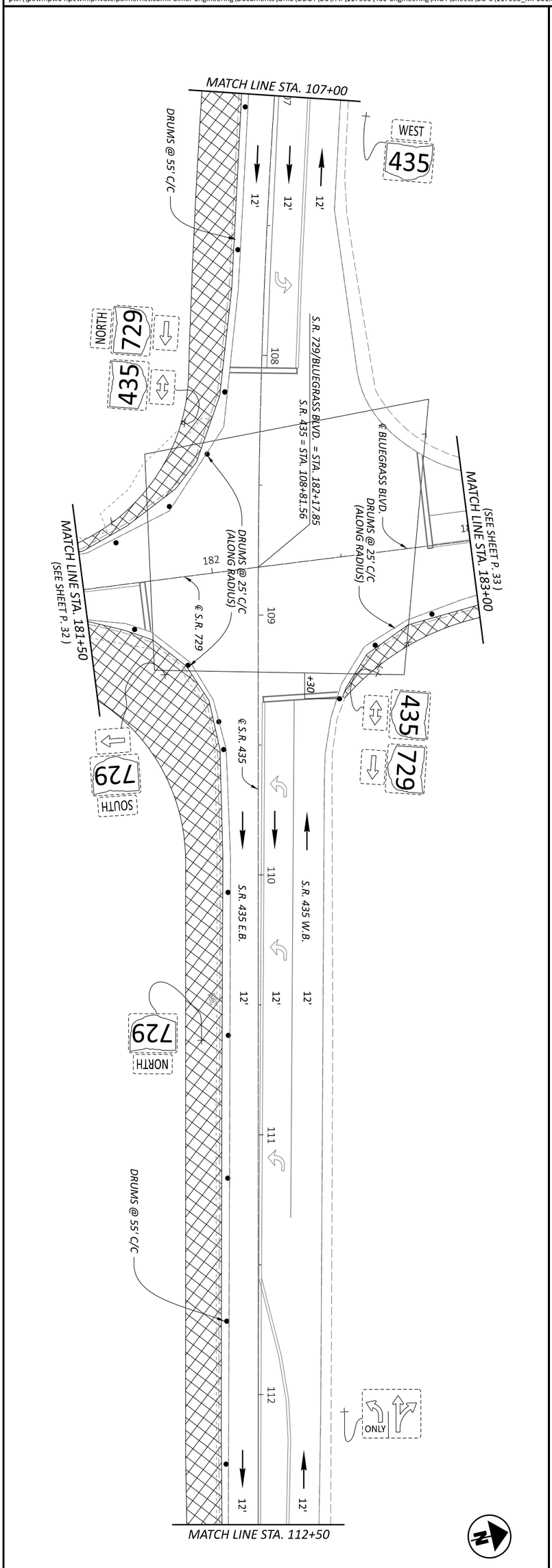
HORIZONTAL SCALE IN FEET
0 20
10 40

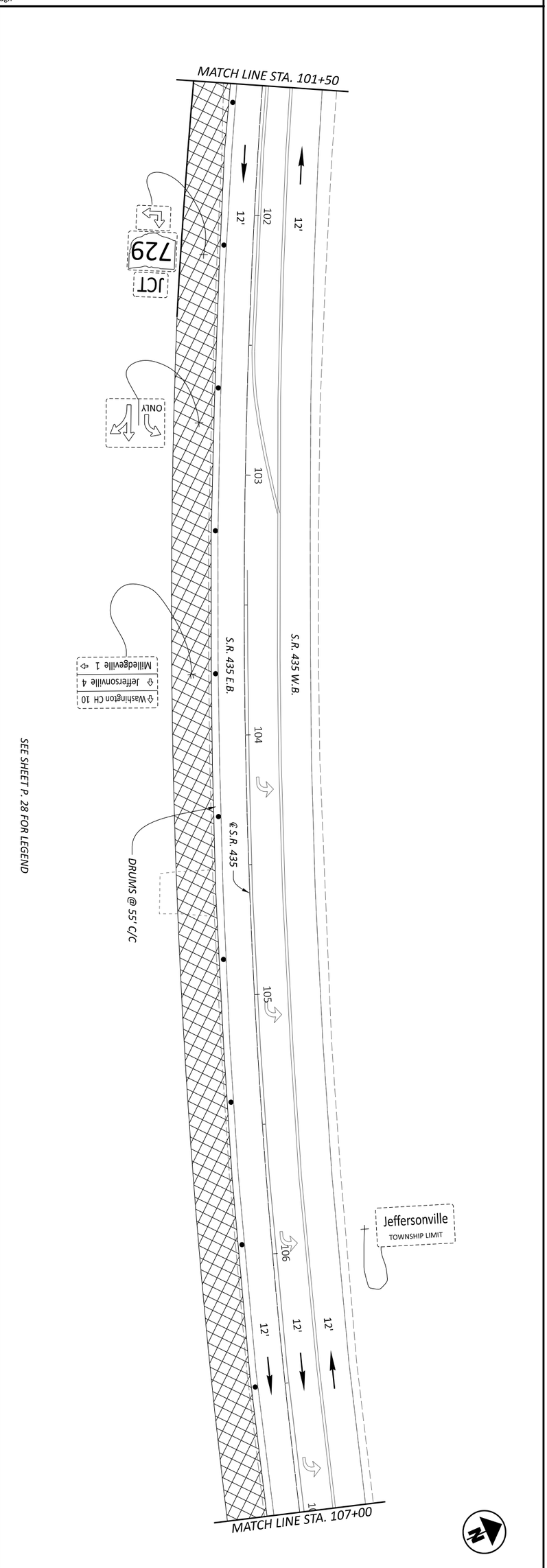
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI, OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 29 TOTAL 246

FAY-435-1.52

MODEL: 3-Sheet PH1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:08 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\MOT\Sheets\BU-5\117955_MP001.dgn





SEE SHEET P. 28 FOR LEGEND

MAINTENANCE OF TRAFFIC (BU-5)
PHASE 1 - S.R. 435 STA. 101+50 TO STA. 112+50

HORIZONTAL SCALE IN FEET
0 20
10 40

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CINCINNATI,OH 45249
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DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 30 TOTAL 246

MODEL: 4-Sheet PH1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:08 PM USER: dan-f
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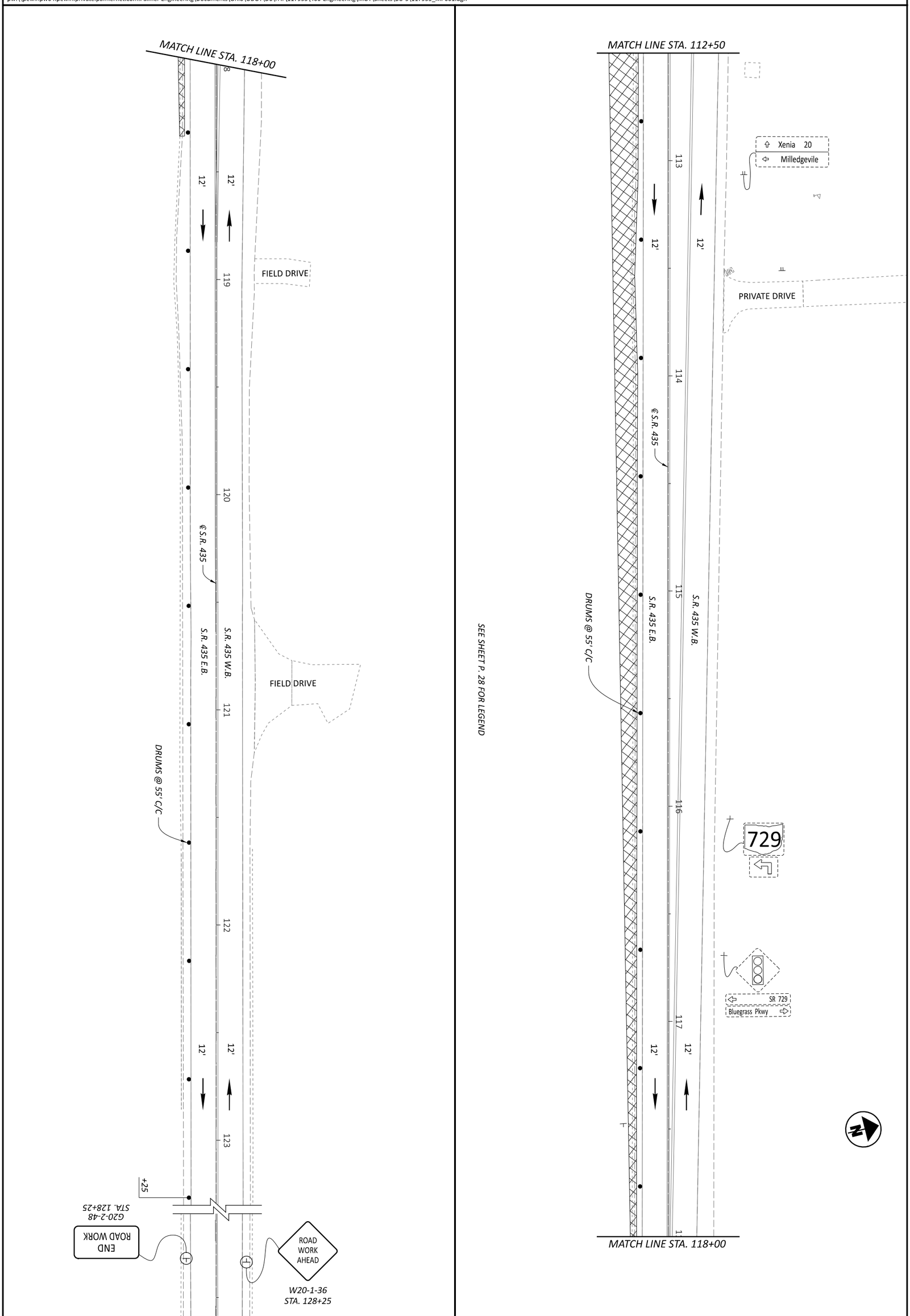


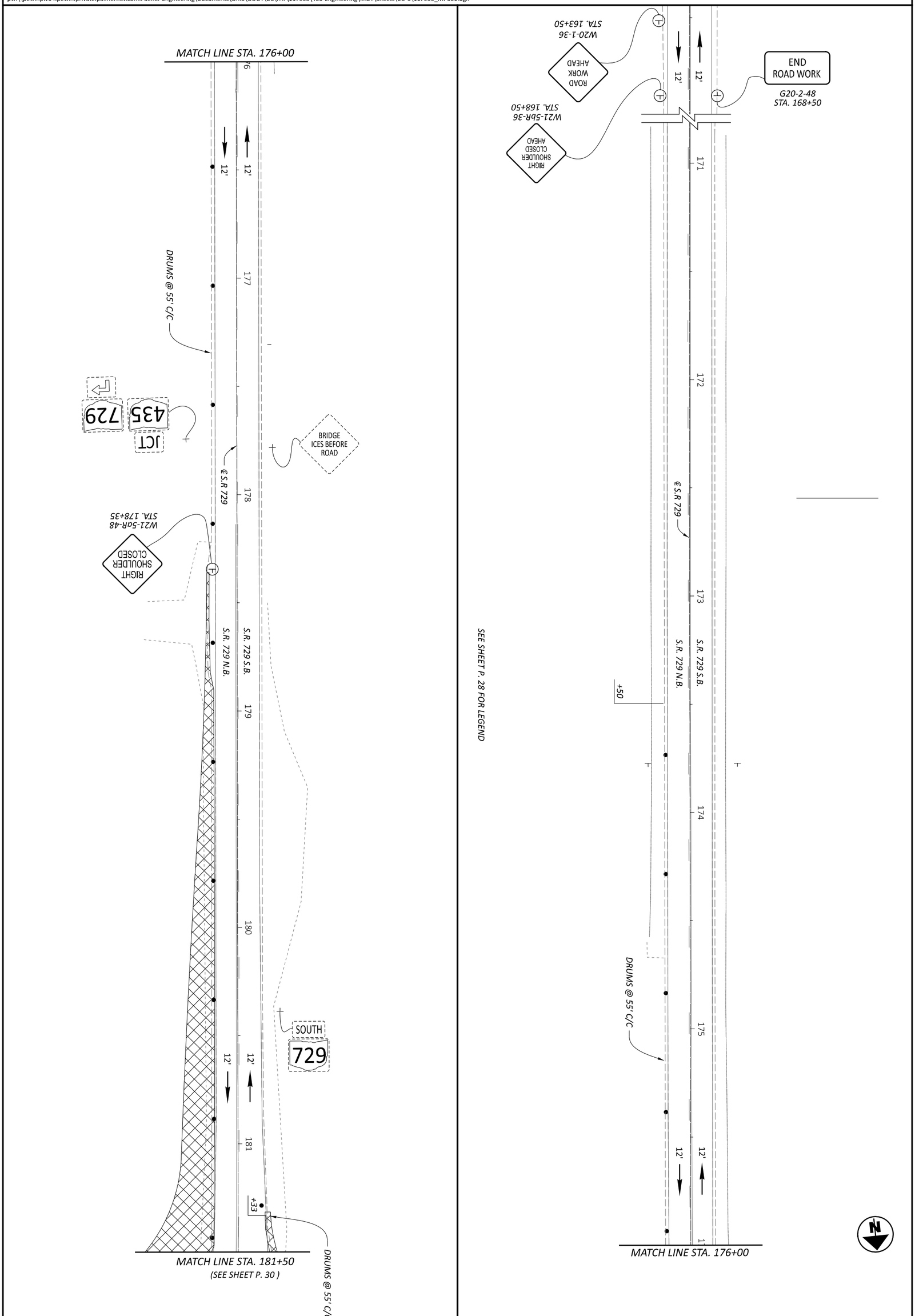
MAINTENANCE OF TRAFFIC (BU-5)
PHASE 1 - S.R. 435 STA. 112+50 TO STA. 128+25

HORIZONTAL SCALE IN FEET
0 20
10 40

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD. SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 31 TOTAL 246

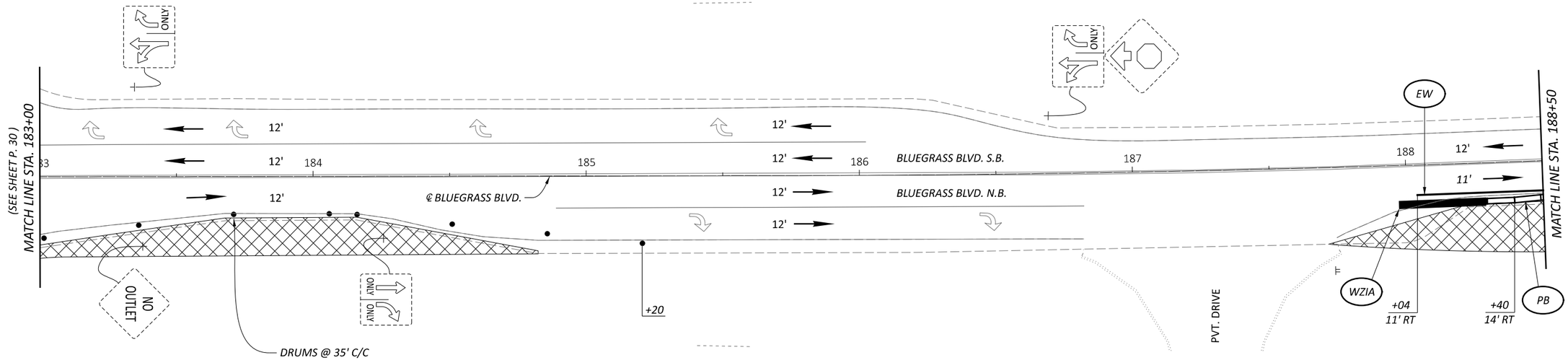
MODEL: S-Sheet PH1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:09 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\MOT\Sheets\BU-5\117955_MP001.dgn



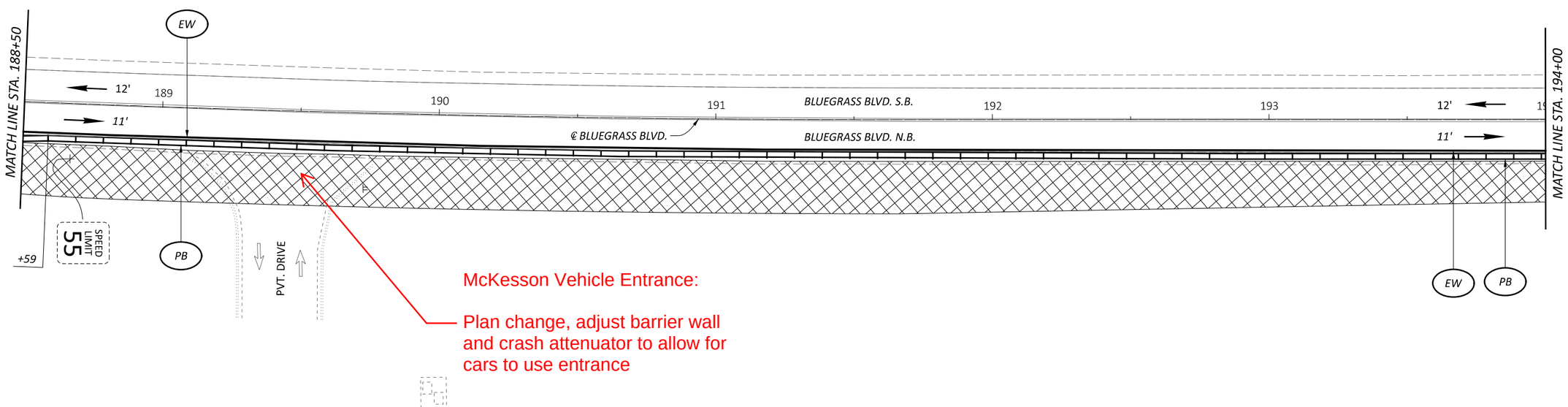
SHEET P. 32 TOTAL 246	PROJECT ID 117955	DESIGNER DPF	REVIEWER DCJ 05/10/24	DESIGN AGENCY Palmer ENGINEERING 8350 E. KEMPER RD. SUITE B CINCINNATI,OH 45249 513-469-1600

MAINTENANCE OF TRAFFIC (BU-5)
PHASE 1 - S.R. 729 STA. 163+50 TO STA. 181+50

HORIZONTAL SCALE IN FEET
0 20
10 40



SEE SHEET P. 28 FOR LEGEND



HORIZONTAL SCALE IN FEET
0 10 20 40
40' 0"

MAINTENANCE OF TRAFFIC (BU-5)
PHASE 1 - BLUEGRASS BLVD. STA. 183+00 TO STA. 194+00

DESIGN AGENCY
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SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 33 TOTAL 246

FAY-435-1.52

MODEL: 6-Sheet PH1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:10 PM USER: dan-f
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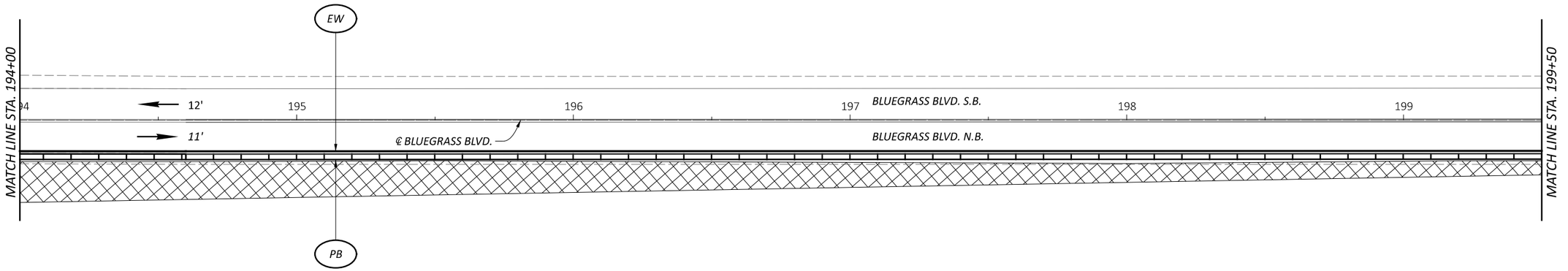
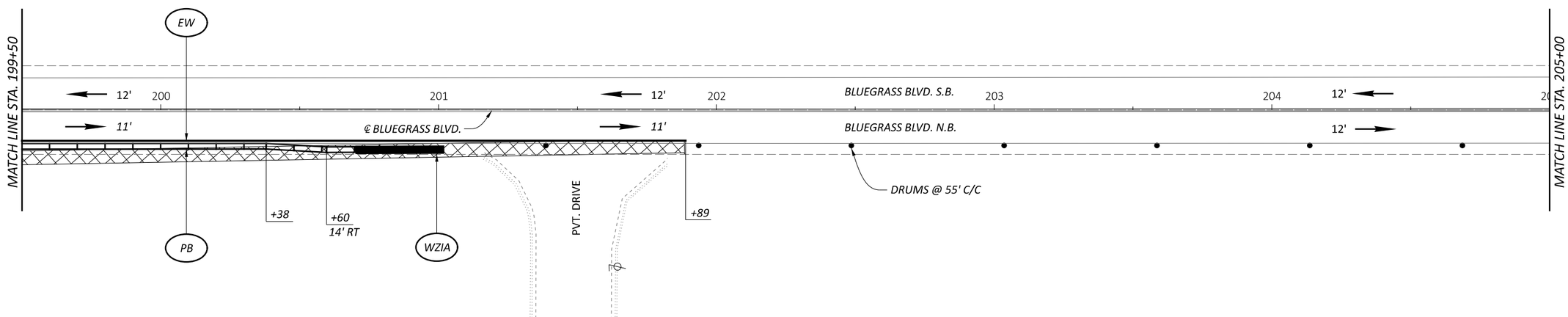


SEE SHEET P. 28 FOR LEGEND



HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC (BU-5)
PHASE 1 - BLUEGRASS BLVD. STA. 194+00 TO STA. 205+00

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 34 TOTAL 246

FAY-435-1.52

MODEL: 7-Sheet PH1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:11 PM USER: dan-f
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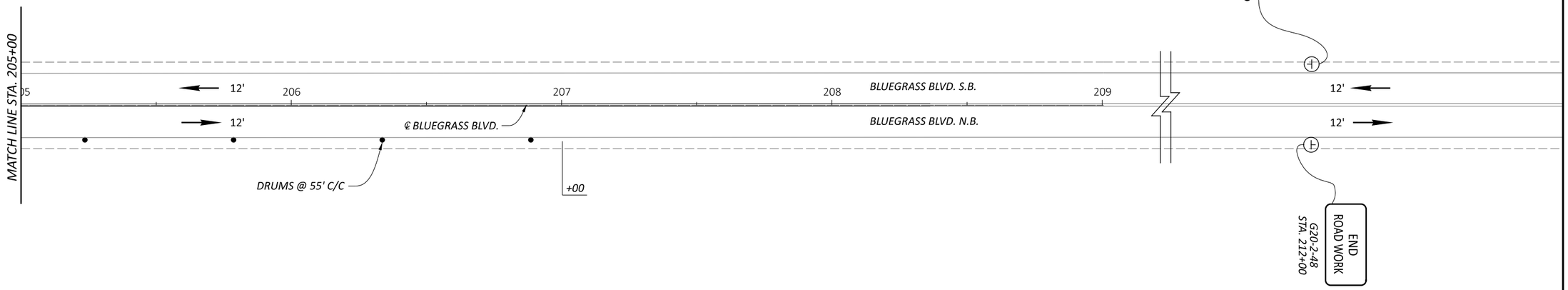

SEE SHEET P. 28 FOR LEGEND

HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC (BU-5)
PHASE 1 - BLUEGRASS BLVD. STA. 205+00 TO STA. 212+00

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 35 TOTAL 246

FAY-435-1.52

MODEL: 8-Sheet PH1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:11 PM USER: dan-f
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HATCH LEGEND

- PROPOSED WORK ZONE
- PAVEMENT FOR M.O.T., CLASS A

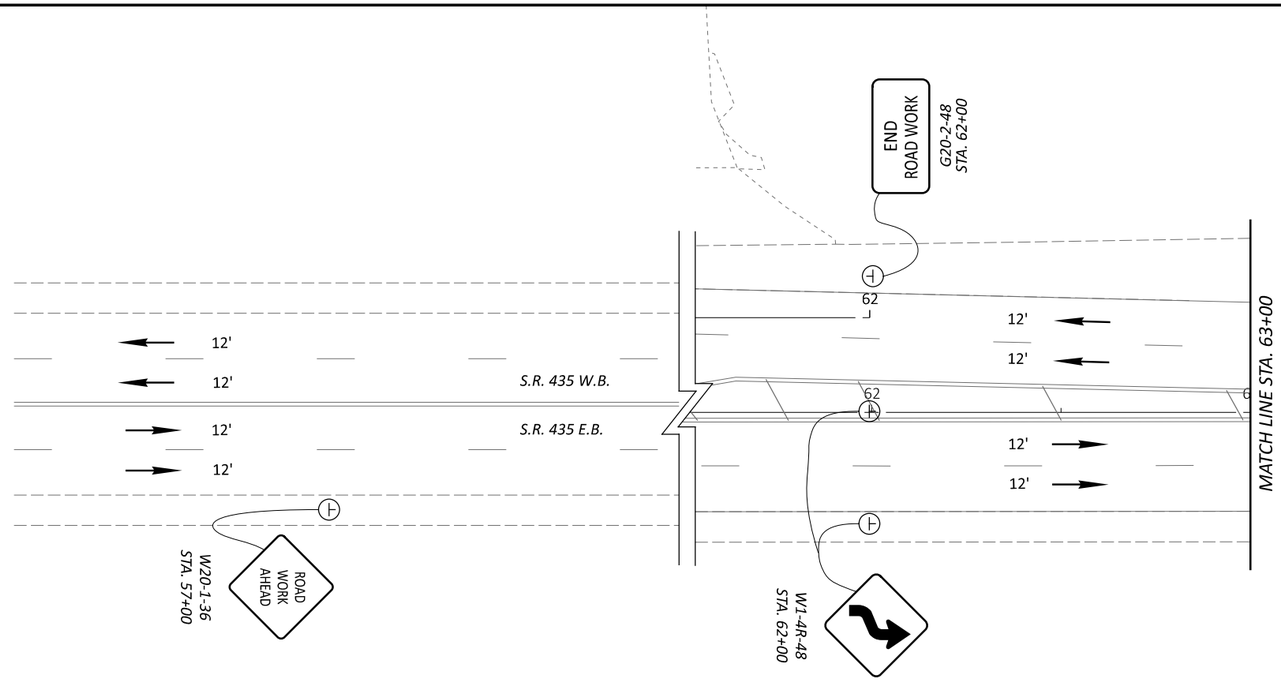
SIGN LEGEND

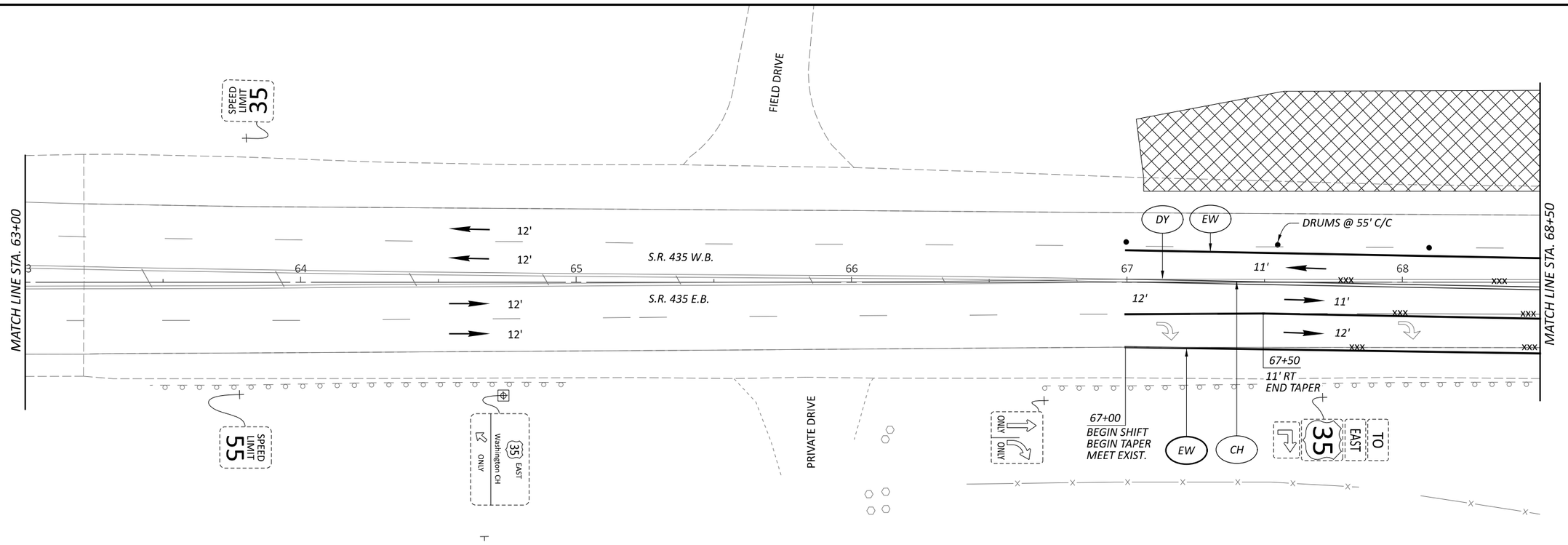
- REMOVE AND DISPOSE OF EXISTING SIGN
- EXISTING SIGN TO REMAIN
- PROPOSED SIGN
- COVER EXISTING SIGN

xxx = REMOVAL OF EXISTING PAVEMENT MARKINGS

BALLOON LEGEND

EY	WORK ZONE EDGE LINE (Y), 4"	PB	PORTABLE BARRIER, UNANCHORED	WD	WORK ZONE DOTTED LINE, (W), 4"
EW	WORK ZONE EDGE LINE (W), 4"	IM	WORK ZONE ISLAND MARKING	YD	WORK ZONE DOTTED LINE, (Y), 4"
SL	WORK ZONE STOP LINE (W) 24"	CH	WORK ZONE CHANNELIZING LINE, 8"	WZIA	WORK ZONE IMPACT ATTENUATOR
DY	WORK ZONE DOUBLE SOLID LINE, (Y), 4"	AR	WORK ZONE LANE ARROW		





HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC (BU5)
PHASE 2 - S.R. 435 STA. 57+00 TO STA. 68+50

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 36 TOTAL 246

FAY-435-1.52

MODEL: 1-Sheet PH2 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:20 PM USER: dan-f
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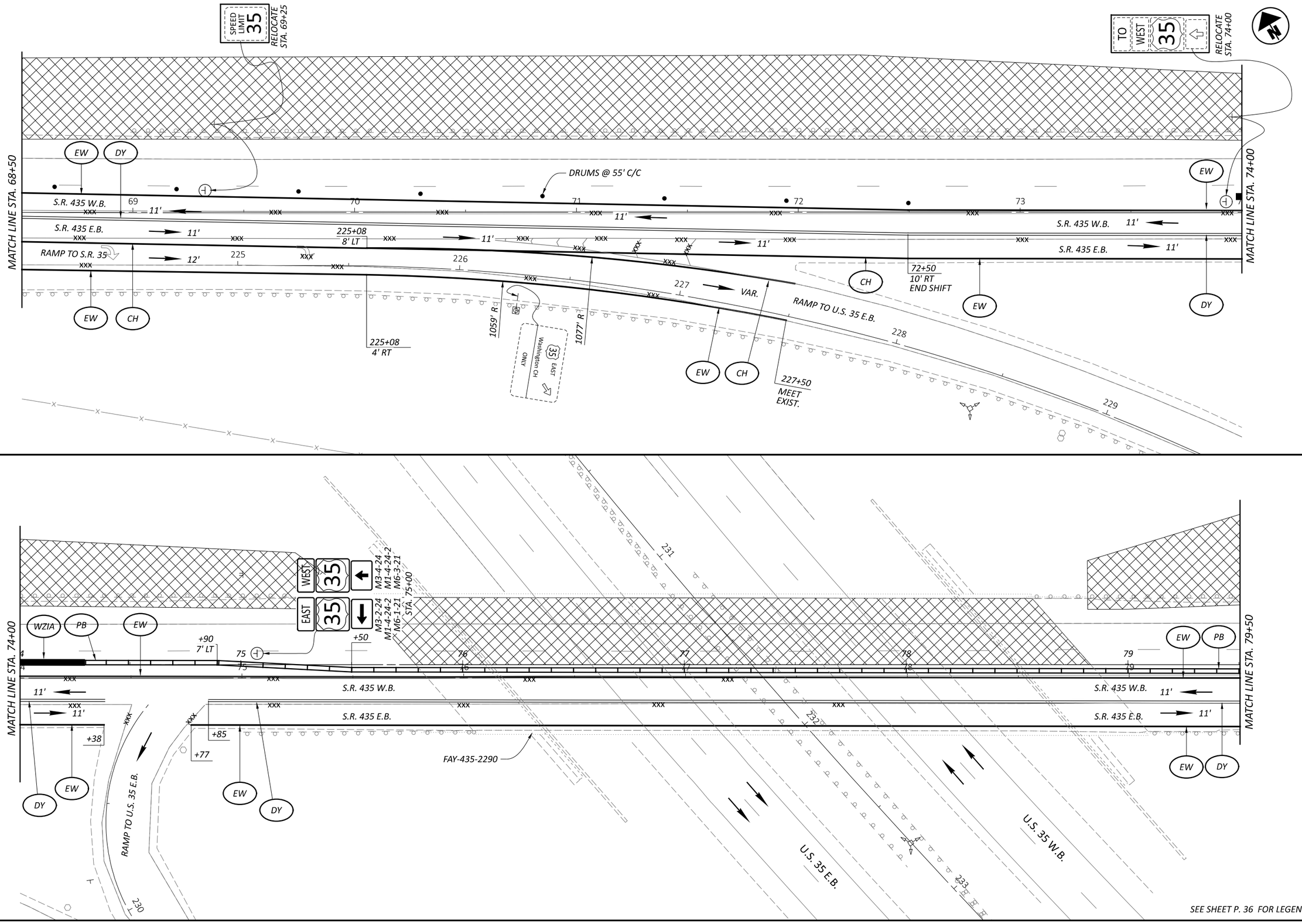

MAINTENANCE OF TRAFFIC (BU-5)
PHASE 2 - S.R. 435 STA. 68+50 TO STA. 79+50

FAY-435-1.52

MODEL: Sheet 2 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:21 PM USER: dan-f
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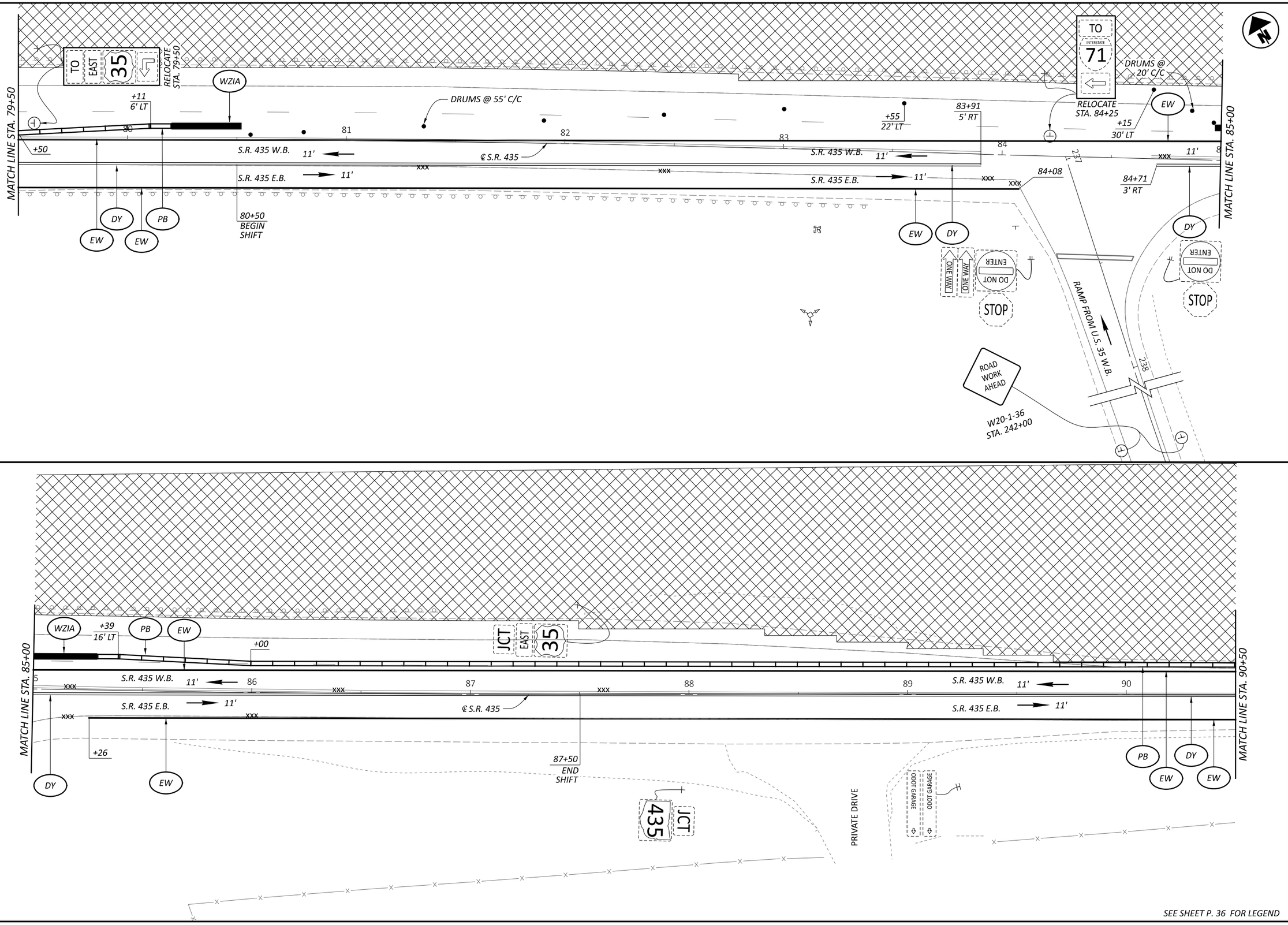
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 37 | TOTAL: 246



SEE SHEET P. 36 FOR LEGEND

HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC (BU-5)
PHASE 2 - S.R. 435 STA. 79+50 TO STA. 90+50

FAY-435-1.52

MODEL: Sheet 3 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:22 PM USER: dan-f
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DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
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513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 38 TOTAL 246

MODEL: Sheet 4 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:23 PM USER: dan-f
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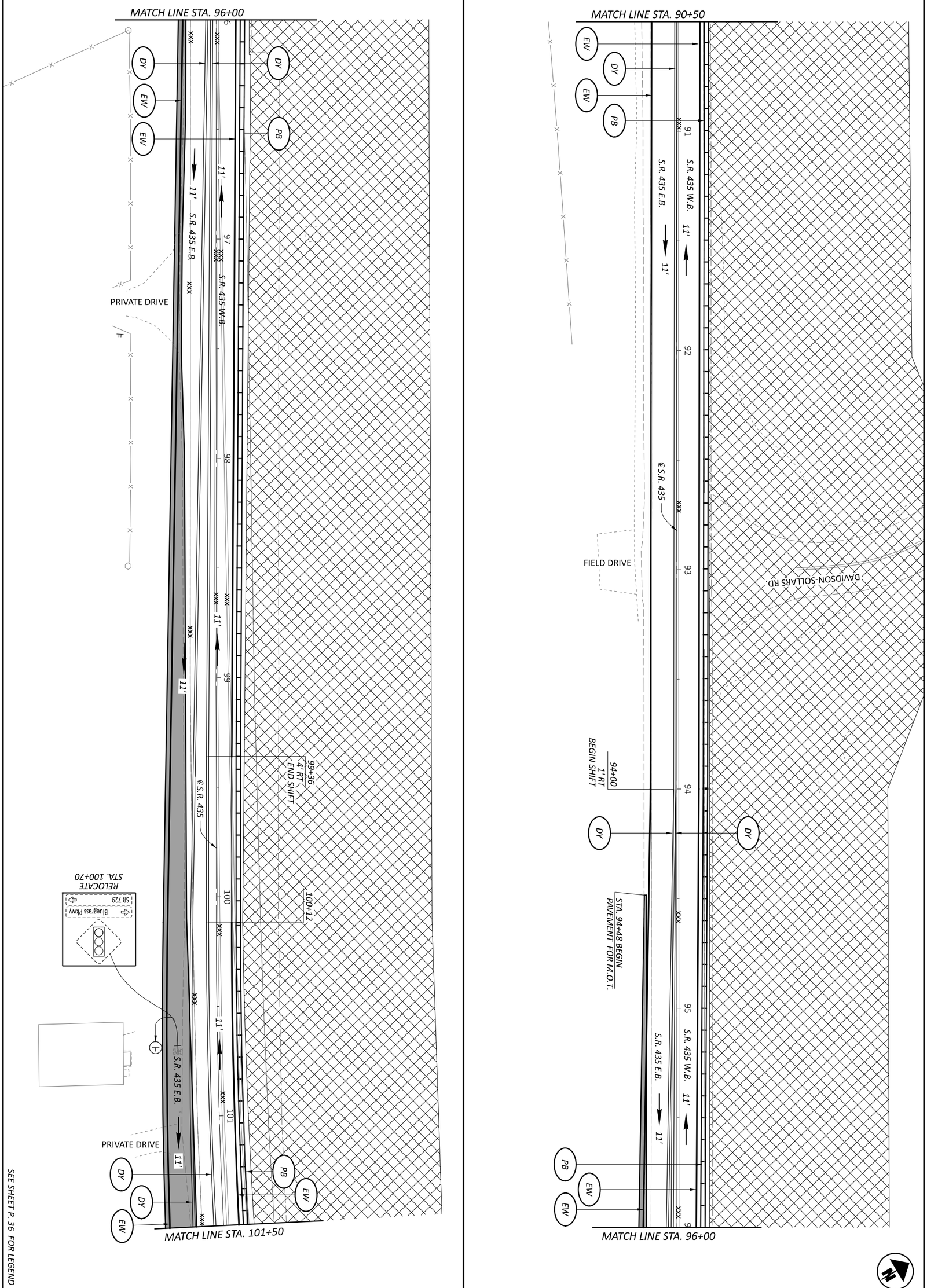

SEE SHEET P. 36 FOR LEGEND

MAINTENANCE OF TRAFFIC (BU-5)
PHASE 2 - S.R. 435 STA. 90+50 TO STA. 101+50

HORIZONTAL SCALE IN FEET
0 20
10 40

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 39 TOTAL 246

FAY-435-1.52

MODEL: Sheet 5 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:23 PM USER: dan-f
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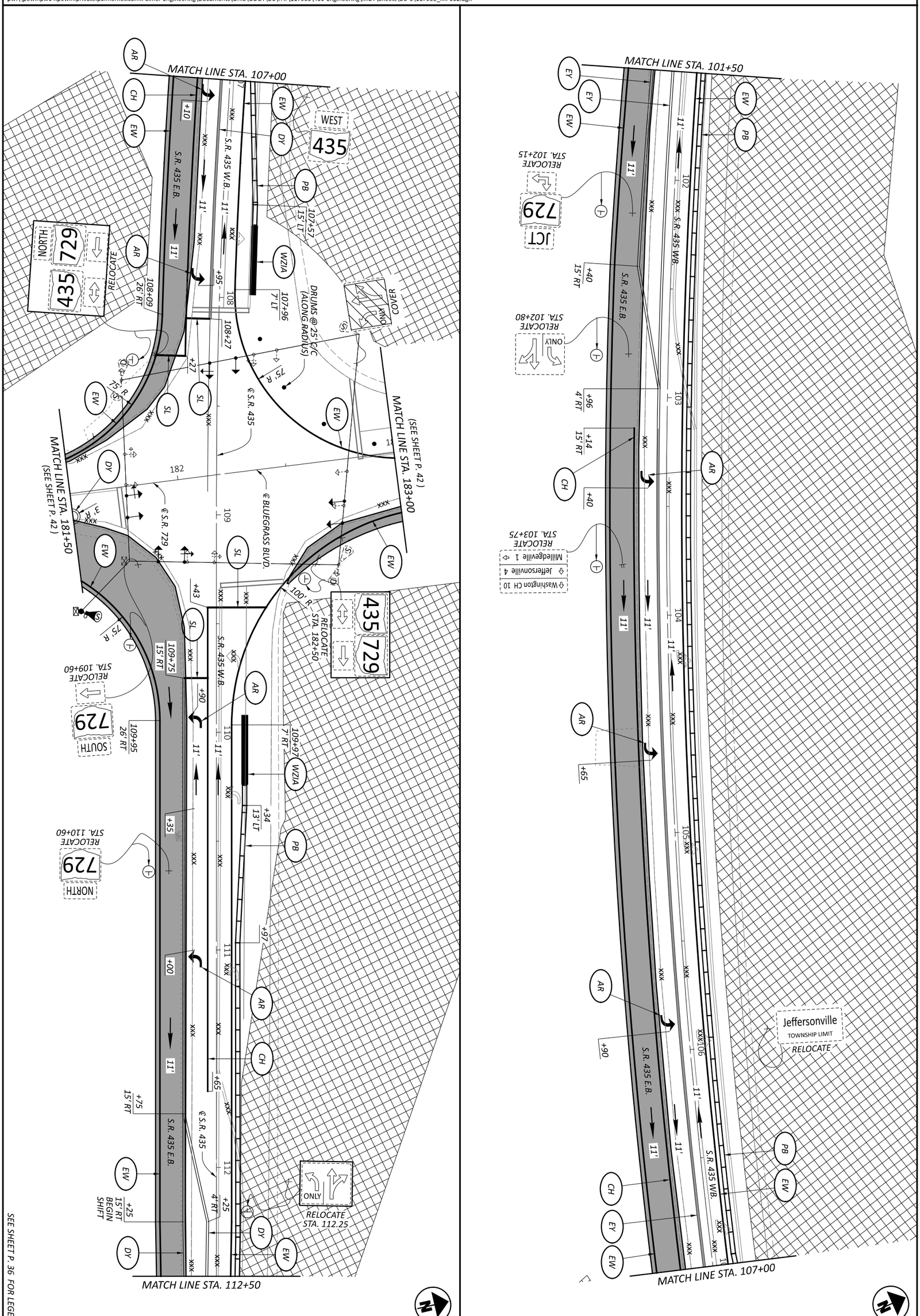
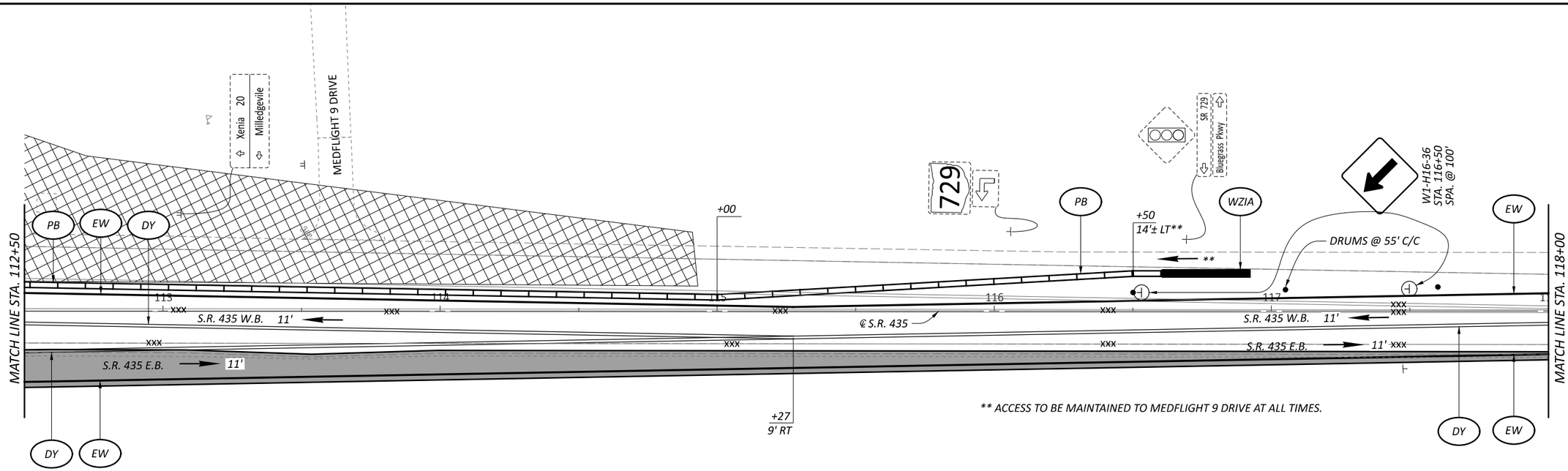


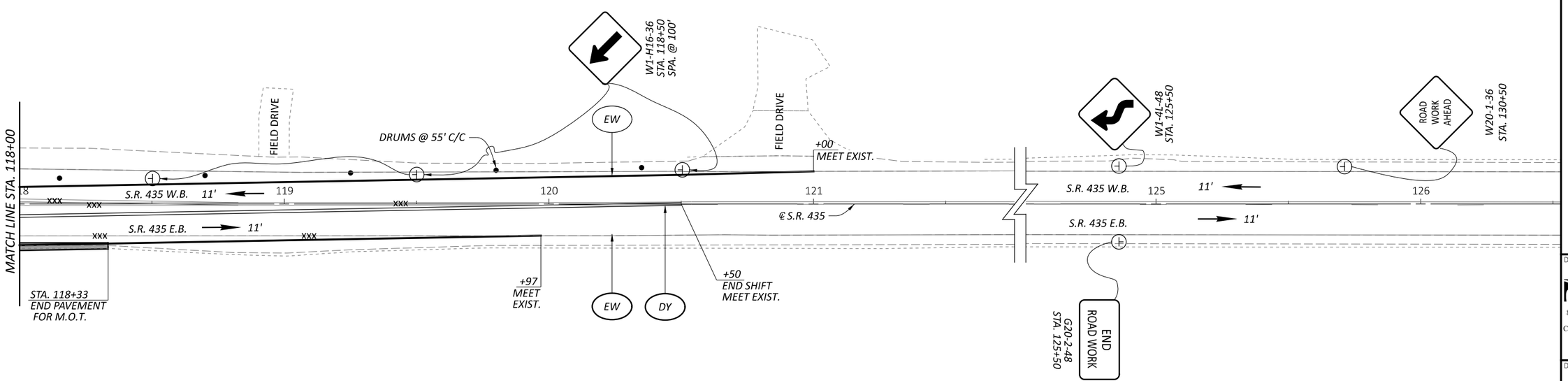
MAINTENANCE OF TRAFFIC (BU-5)
PHASE 2 - S.R. 435 STA. 101+50 TO STA. 112+50

HORIZONTAL SCALE IN FEET
0 20
10 40

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD. SUITE B
CINCINNATI, OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 40 TOTAL 246





SEE SHEET P. 36 FOR LEGEND

MAINTENANCE OF TRAFFIC (BU-5)
PHASE 2 - S.R. 435 STA. 112+50 TO STA. 130+50

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 41 TOTAL: 246

FAY-435-1.52

MODEL: Sheet 6 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:24 PM USER: dan-f
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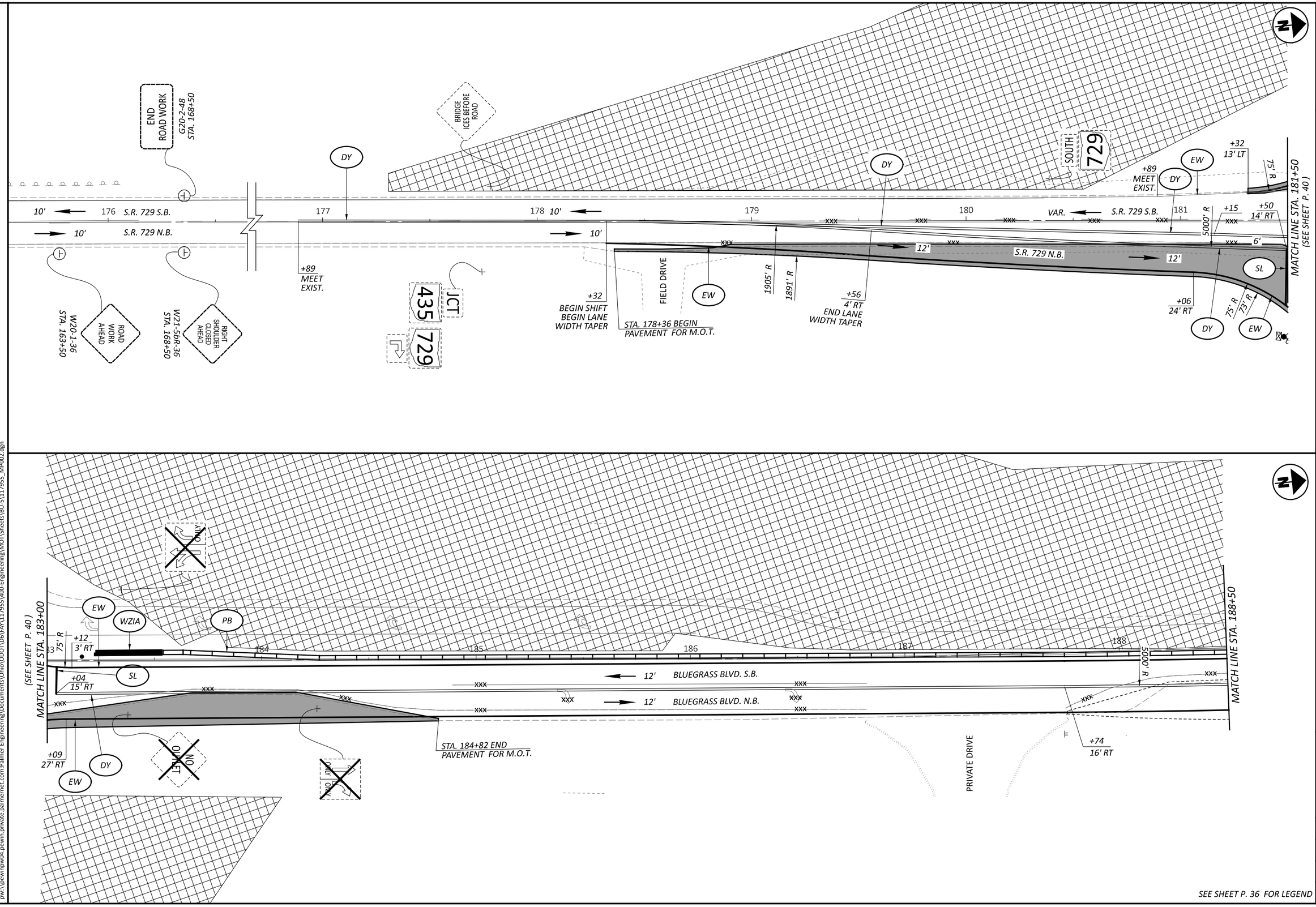

HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC (BU-5)
PHASE 2 - S.R. 729/BLUEGRASS BLVD. STA. 163+50 TO STA. 188+50

SEE SHEET P. 36 FOR LEGEND

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 42 TOTAL 246

FAY-435-1.52

MODEL: Sheet 7 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:25 PM USER: dan-f
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FAY-435-1.52

MODEL: Sheet 8 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:26 PM USER: dan-f
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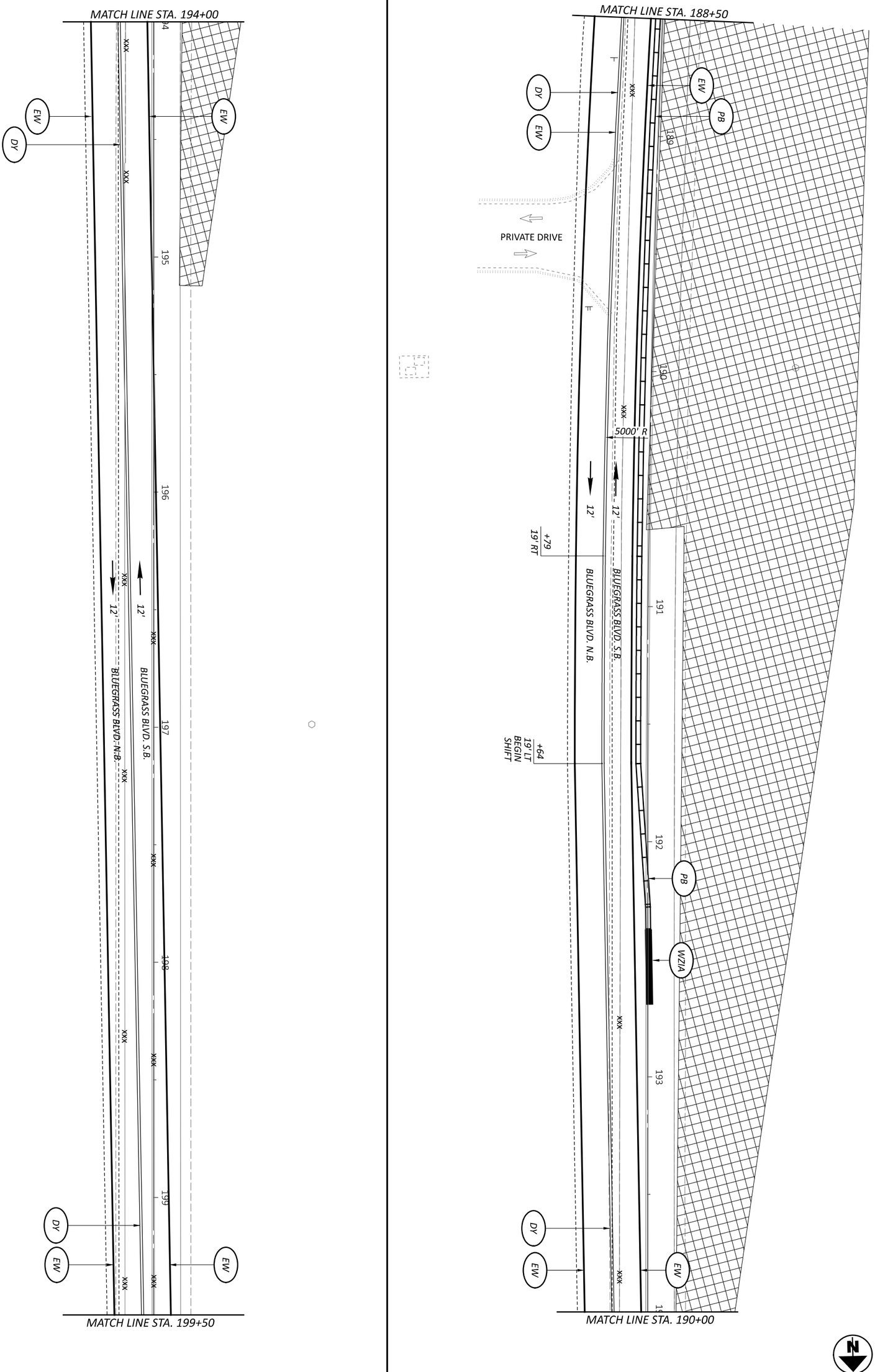

SEE SHEET P. 36 FOR LEGEND

DESIGN AGENCY
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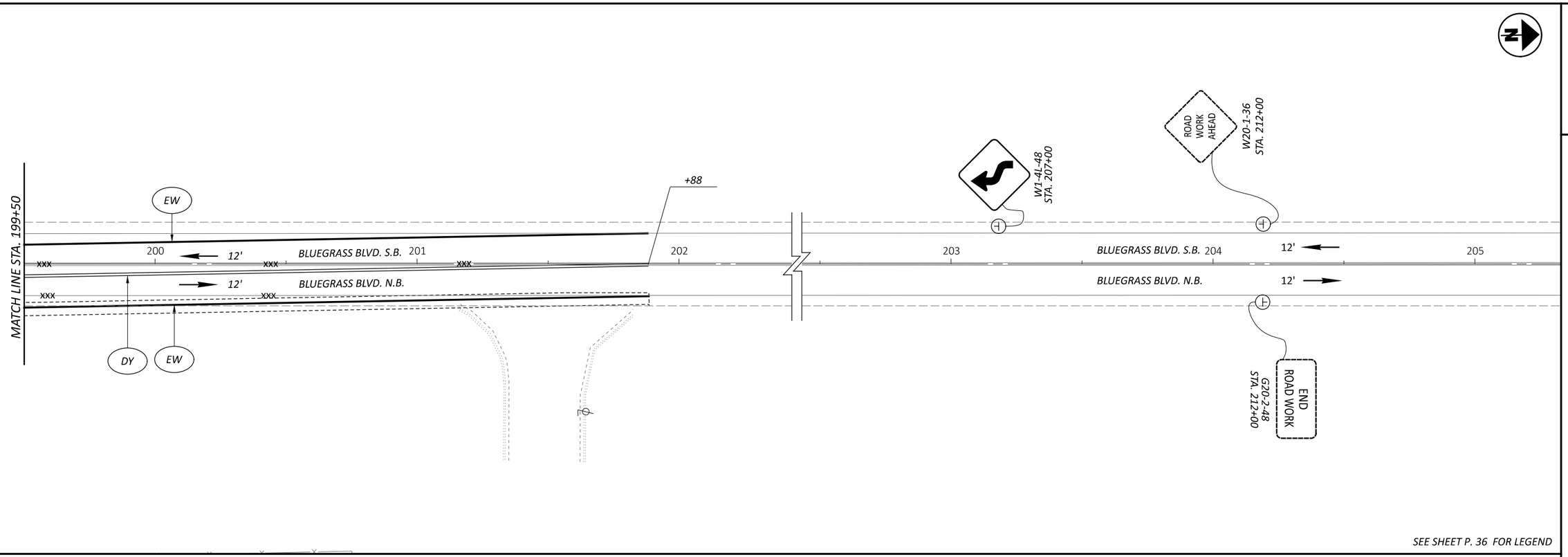
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 43 TOTAL 246

MAINTENANCE OF TRAFFIC (BU-5)
PHASE 2 - BLUEGRASS BLVD. STA. 188+50 TO STA. 199+50

HORIZONTAL SCALE IN FEET
0 20
10 40



SEE SHEET P. 36 FOR LEGEND

HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC (BU-5)
PHASE 2 - BLUEGRASS BLVD. STA. 199+50 TO STA. 212+00

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 44 TOTAL 246

FAY-435-1.52

MODEL: Sheet 9 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:27 PM USER: dan-f
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HATCH LEGEND

- PROPOSED WORK ZONE
- PAVEMENT FOR M.O.T., CLASS A

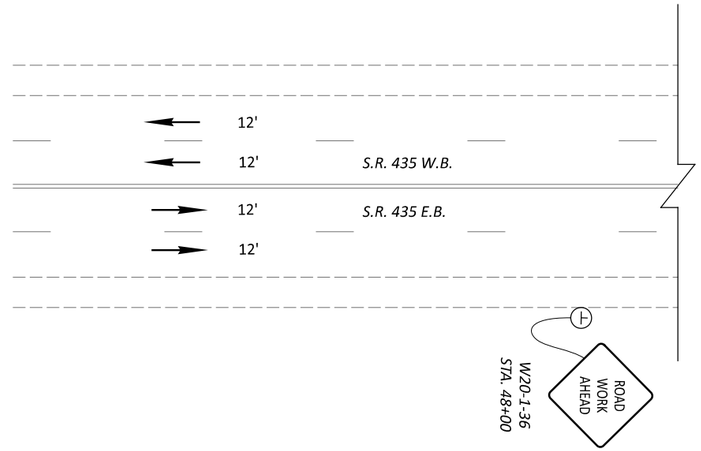
SIGN LEGEND

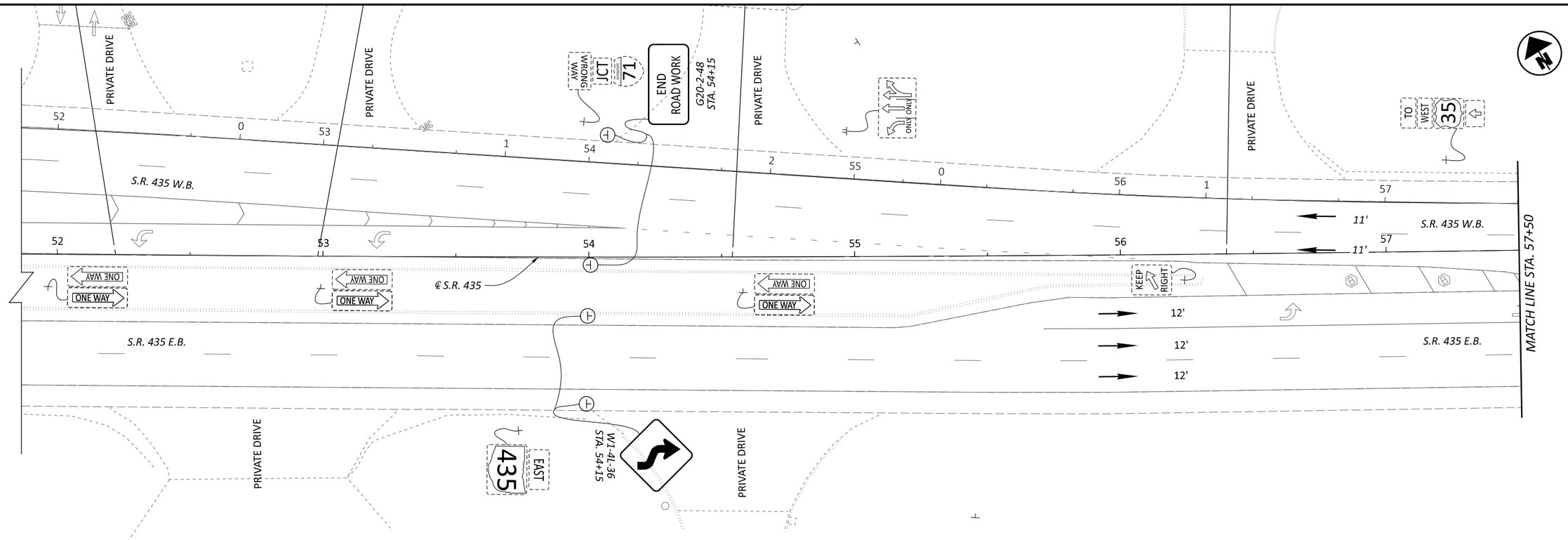
- REMOVE AND DISPOSE OF EXISTING SIGN
- EXISTING SIGN TO REMAIN
- PROPOSED SIGN
- COVER EXISTING SIGN

xxx = REMOVAL OF EXISTING PAVEMENT MARKINGS

BALLOON LEGEND

EY	WORK ZONE EDGE LINE (Y), 4"	PB	PORTABLE BARRIER, UNANCHORED	WD	WORK ZONE DOTTED LINE, (W), 4"
EW	WORK ZONE EDGE LINE (W), 4"	IM	WORK ZONE ISLAND MARKING	YD	WORK ZONE DOTTED LINE, (Y), 4"
SL	WORK ZONE STOP LINE (W) 24"	CH	WORK ZONE CHANNELIZING LINE, 8"	YL	WORK ZONE YIELD LINE, (W)
DY	WORK ZONE DOUBLE SOLID LINE, (Y), 4"	AR	WORK ZONE LANE ARROW	WZIA	WORK ZONE IMPACT ATTENUATOR





HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC (BU5)
PHASE 3 - S.R. 435 STA. 48+00 TO STA. 57+50

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI, OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 45 TOTAL 246

FAY-435-1.52

MODEL: Sheet 1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:37 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\V400-Engineering\MOT\Sheets\BU-5\117955_MP003.dgn

HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC (BU5)
PHASE 3 - S.R. 435 STA. 57+50 TO STA. 68+50

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI, OH 45249
513-469-1600

DESIGNER	DPF
REVIEWER	DCJ 05/10/24
PROJECT ID	117955
SHEET	P. 46
TOTAL	246

FAY-435-1.52

MODEL: Sheet 2 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:38 PM USER: dan-f
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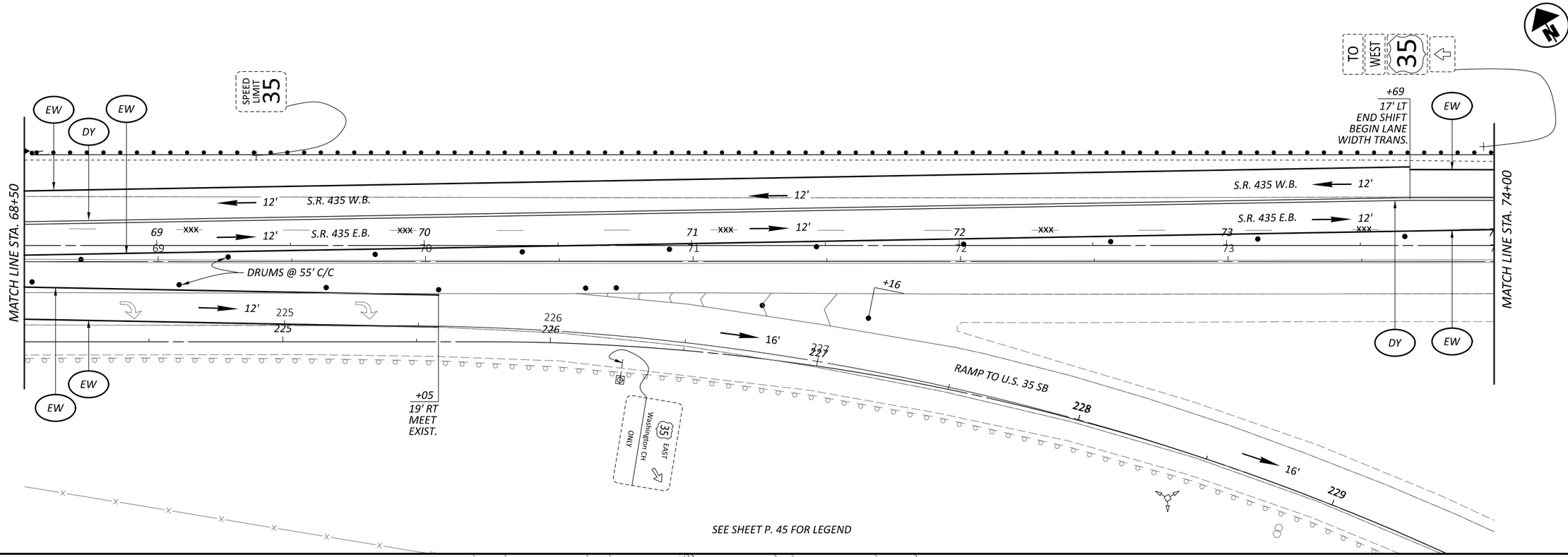

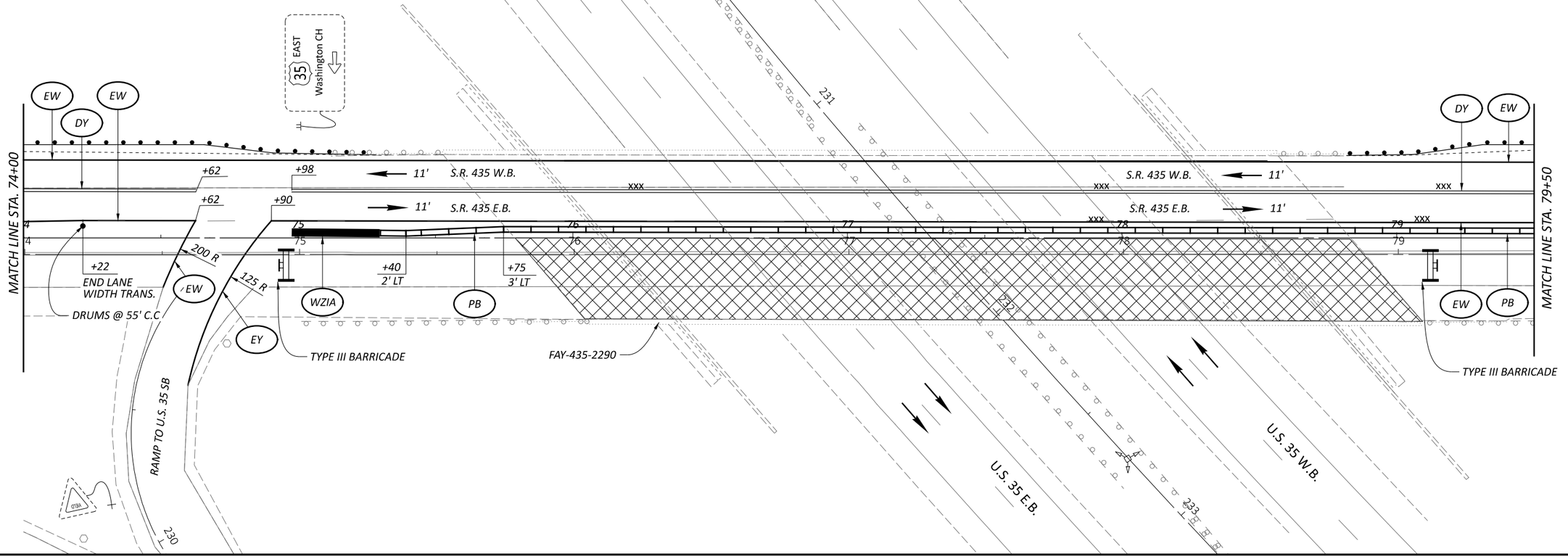

FAY-435-1.52

MODEL: Sheet 3 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:39 PM USER: dan-f
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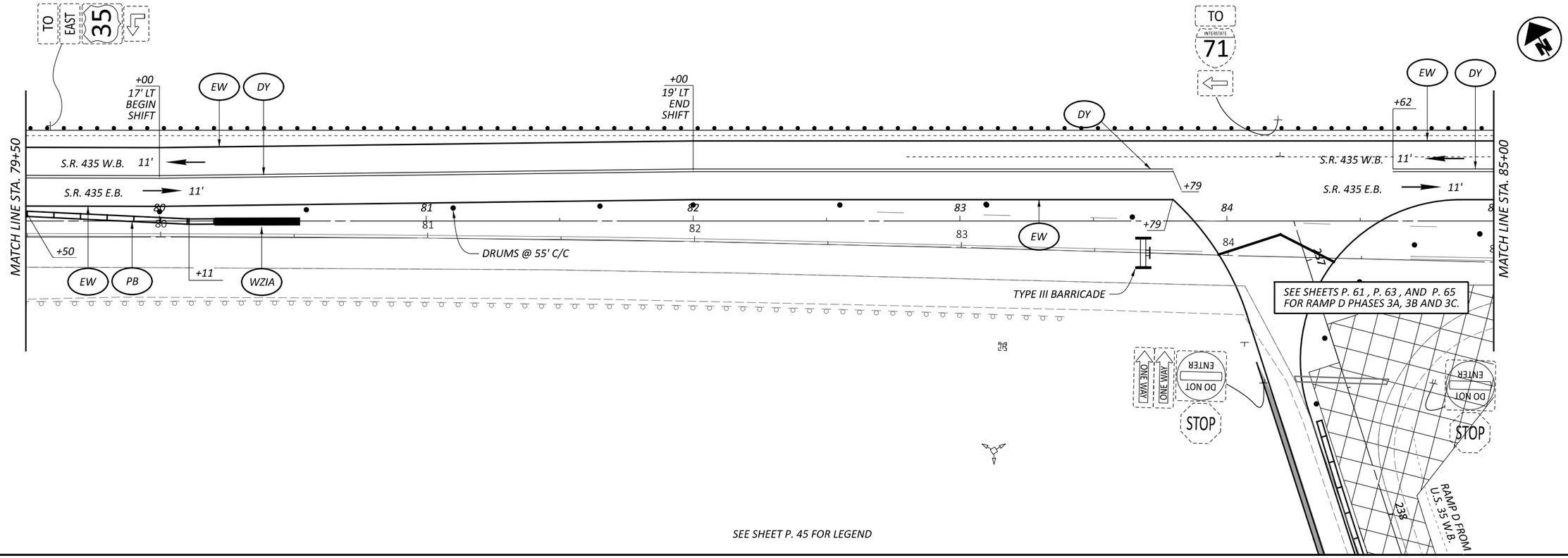
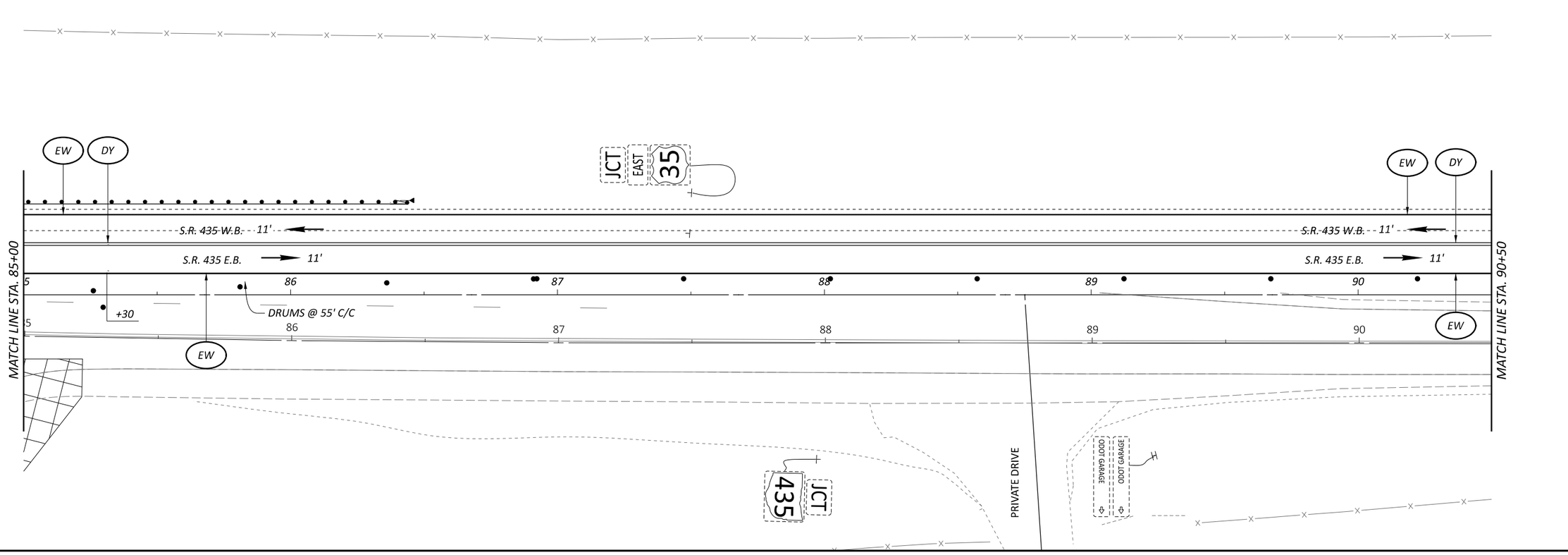
HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC (BU5)
PHASE 3 - S.R. 435 STA. 68+50 TO STA. 79+50

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 47 TOTAL 246





HORIZONTAL
SCALE IN FEET
0 10 20 40

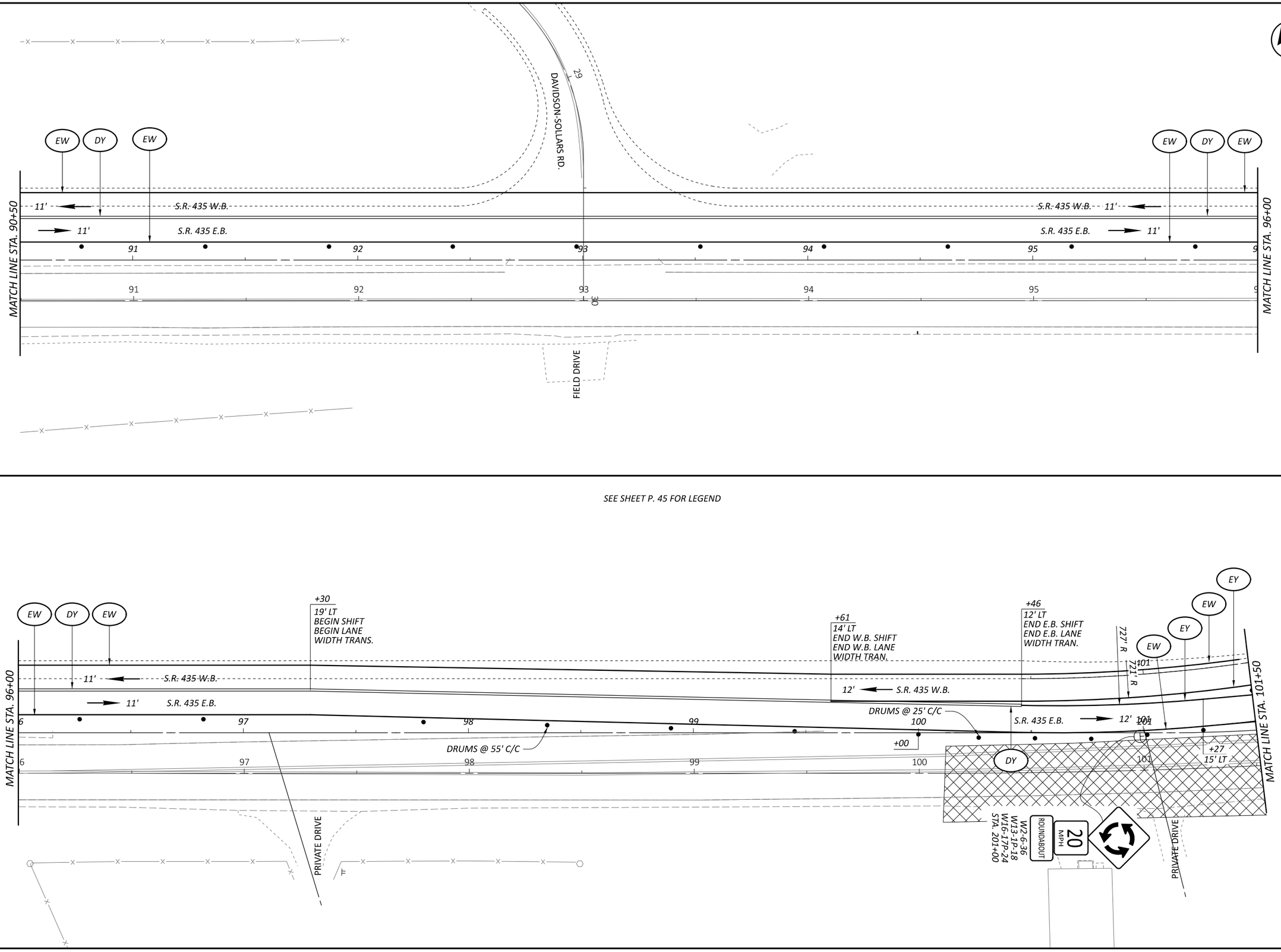
MAINTENANCE OF TRAFFIC (BU5)
PHASE 3 - S.R. 435 STA. 79+50 TO STA. 90+50

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI, OH 45249
513-469-1600

DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 48 | TOTAL: 246

FAY-435-1.52

MODEL: Sheet 4 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:41 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\MOT\Sheets\BU-5\117955_MP003.dgn



MAINTENANCE OF TRAFFIC (BU5)
PHASE 3 - S.R. 435 STA. 90+50 TO STA. 101+50

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI, OH 45249
513-469-1600

DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 49 | TOTAL: 246

FAY-435-1.52

MODEL: Sheet 5 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:42 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\V00-Engineering\MOT\Sheets\BU-5\117955_MP003.dgn

MODEL: Sheet 6 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:43 PM USER: dan-f
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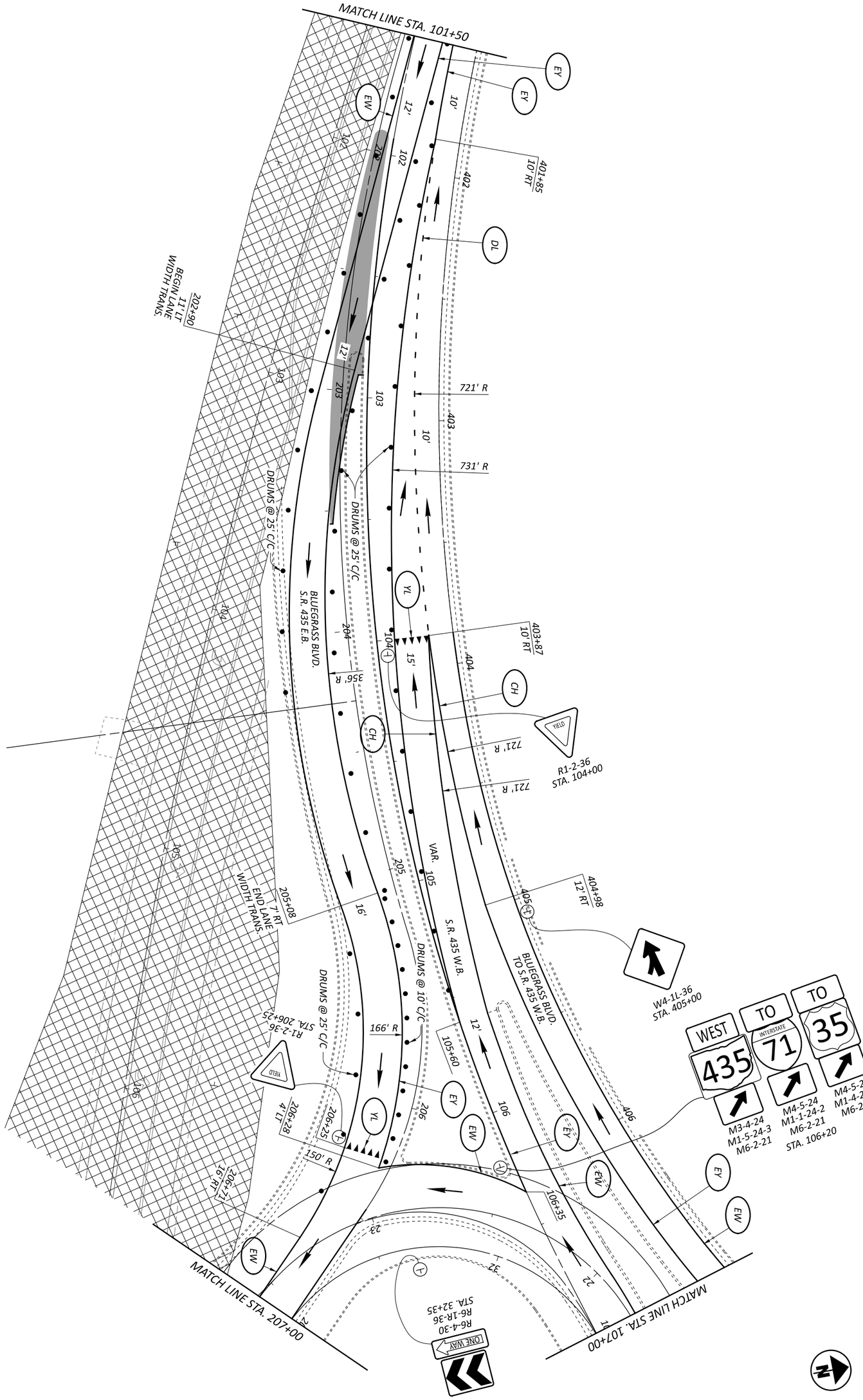

SEE SHEET P. 45 FOR LEGEND

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD. SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 50 TOTAL 246

MAINTENANCE OF TRAFFIC (BU5)
PHASE 3 - S.R. 435 STA. 101+50 TO ROUNDABOUT

HORIZONTAL SCALE IN FEET
0 20
10 40

FAY-435-1.52

MODEL: Sheet 7 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:44 PM USER: dan-f
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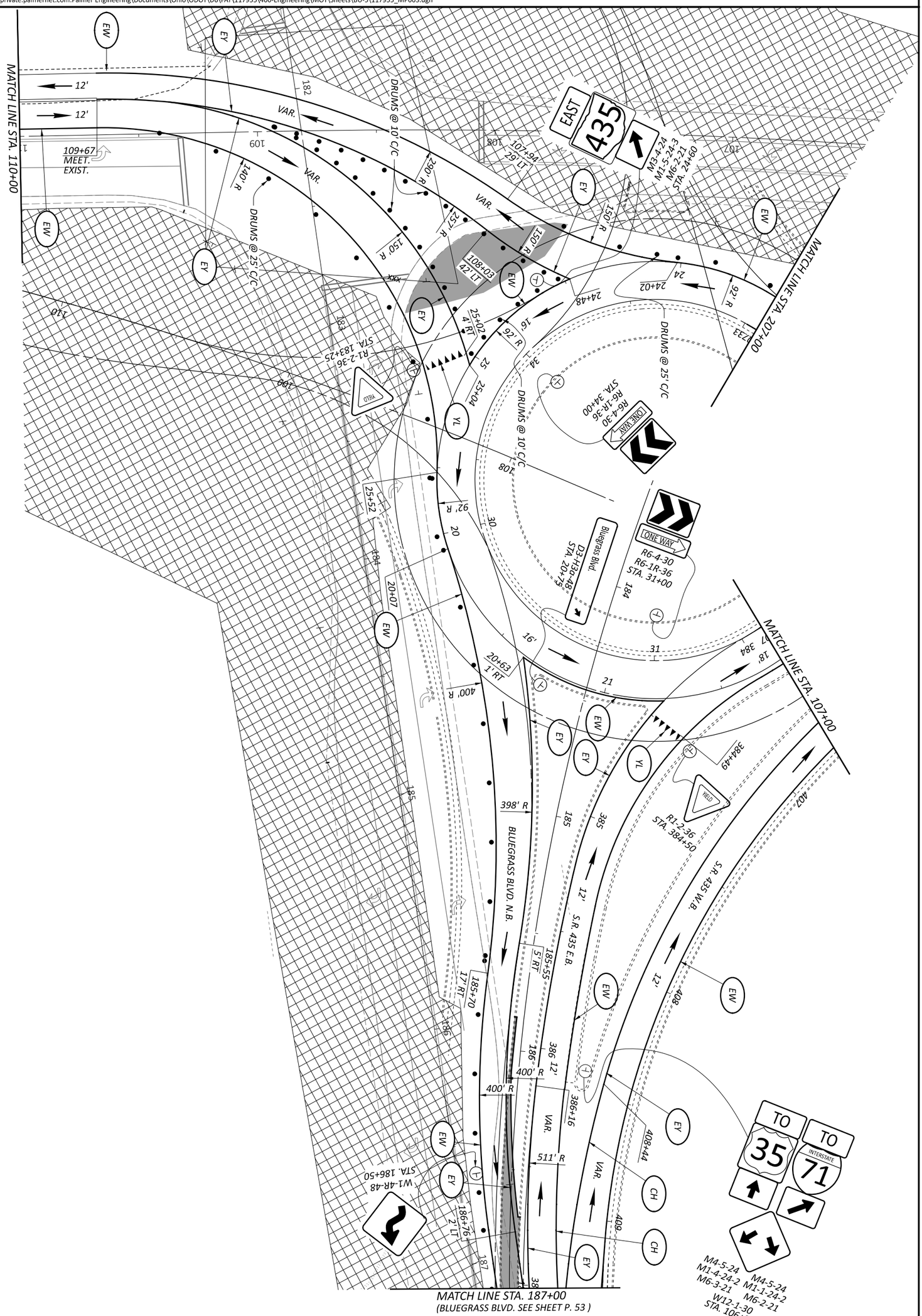


DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF

REVIEWER DCJ 05/10/24

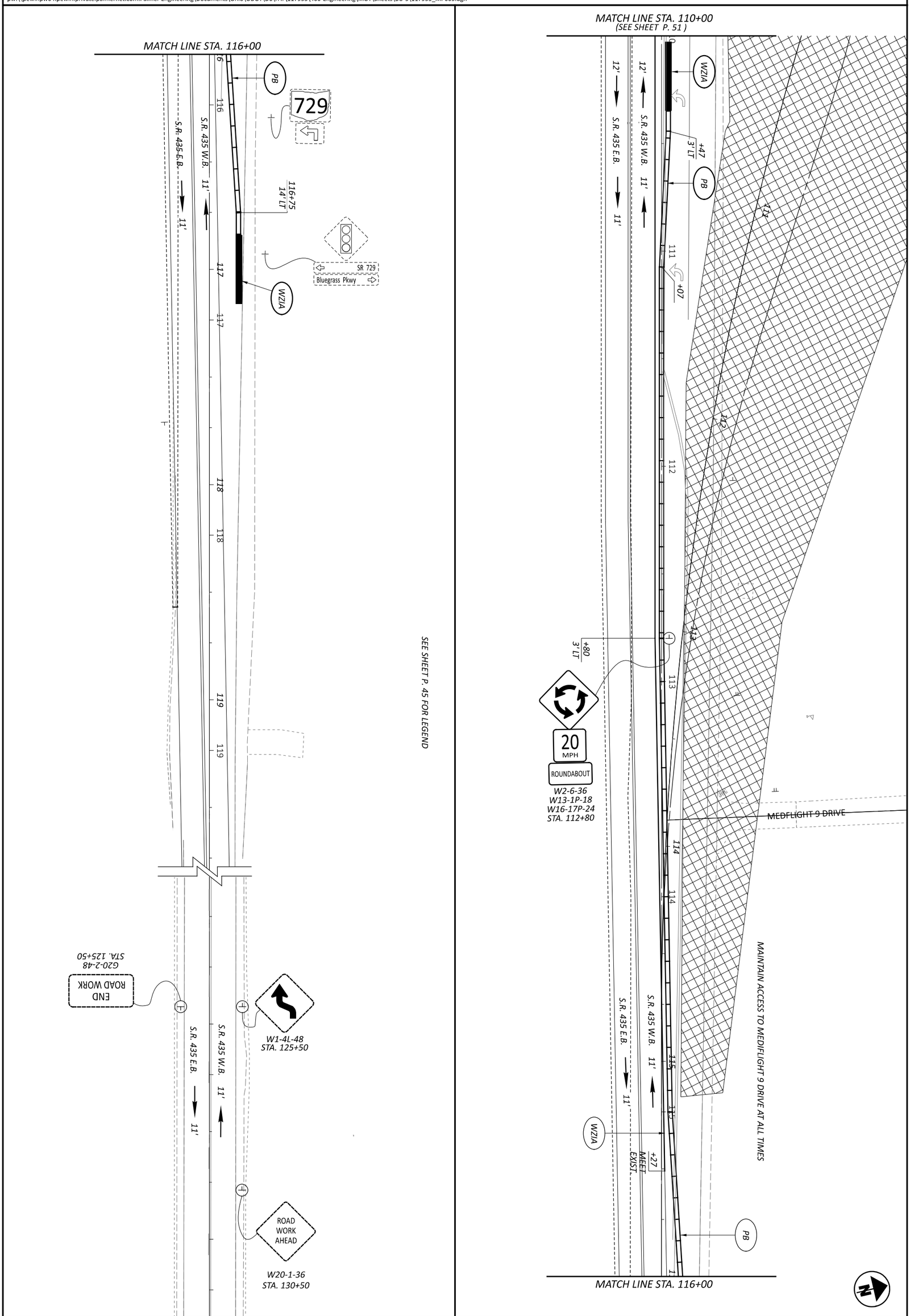
PROJECT ID 117955

SHEET P. 51 TOTAL 246

MAINTENANCE OF TRAFFIC (BU5)
PHASE 3 - S.R. 435/BLUEGRASS BLVD. ROUNDABOUT

HORIZONTAL SCALE IN FEET
0 20
10 40

MODEL: Sheet 8 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:45 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\MOT\Sheets\BU-5\117955_MP003.dgn



MAINTENANCE OF TRAFFIC (BU5)
PHASE 3 - S.R. 435 STA. 110+00 TO STA. 130+50

HORIZONTAL SCALE IN FEET
0 20
10 40

SHEET	TOTAL
P. 52	246

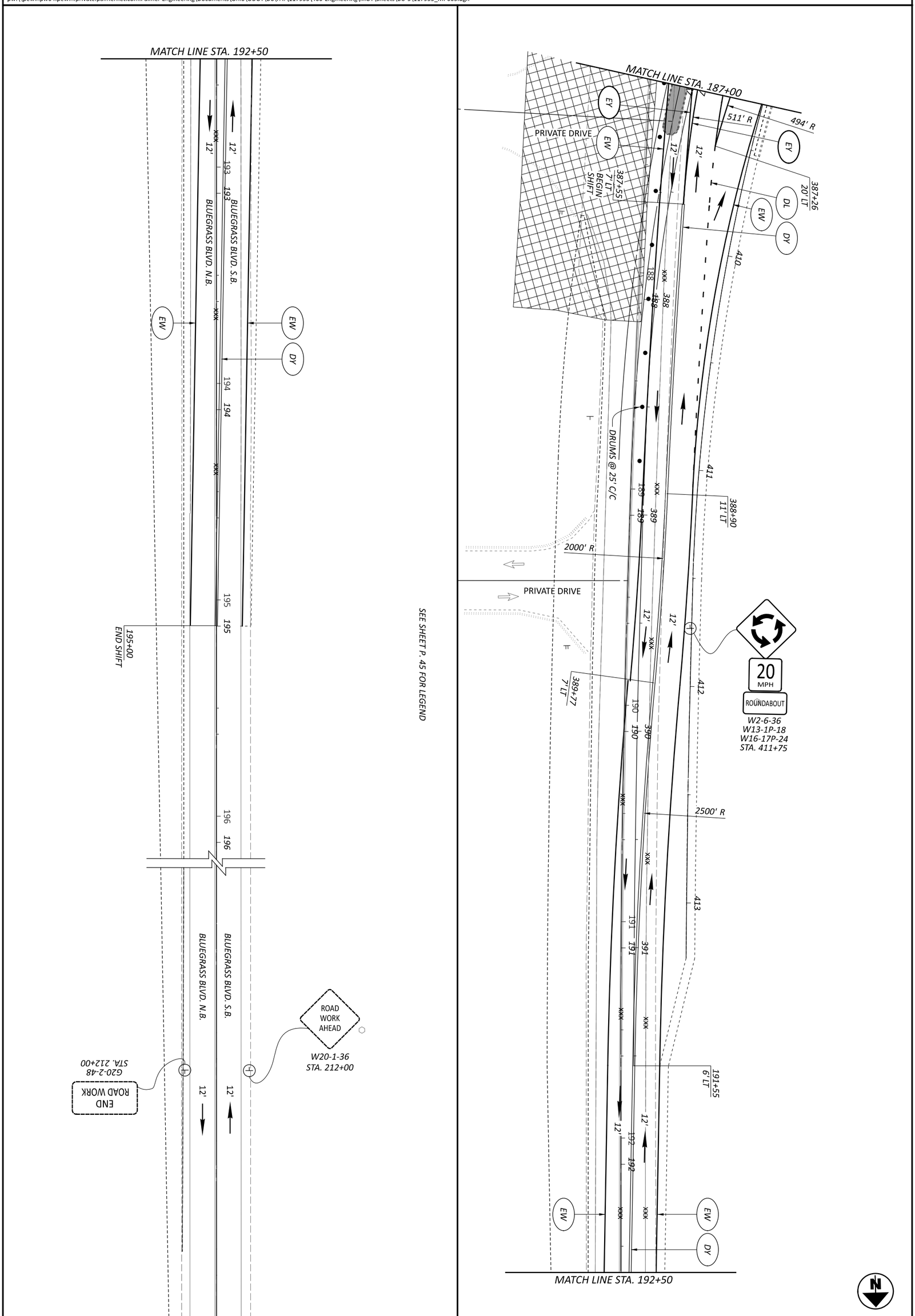
PROJECT ID: 117955

REVIEWER: DCJ 05/10/24

DESIGNER: DPF

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD. SUITE B
CINCINNATI, OH 45249
513-469-1600

MODEL: Sheet 9 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:46 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\MOT\Sheets\BU-5\117955_MP003.dgn



MAINTENANCE OF TRAFFIC (BU5)
PHASE 3 - BLUEGRASS BLVD. STA. 187+00 TO STA. 212+00

HORIZONTAL SCALE IN FEET
0 20
10 40

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD. SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 53 TOTAL 246

BALLOON LEGEND

EY	WORK ZONE EDGE LINE (Y), 4"	PB	PORTABLE BARRIER, UNANCHORED	WD	WORK ZONE DOTTED LINE, (W), 4"
EW	WORK ZONE EDGE LINE (W), 4"	IM	WORK ZONE ISLAND MARKING	YD	WORK ZONE DOTTED LINE, (Y), 4"
SL	WORK ZONE STOP LINE (W) 24"	CH	WORK ZONE CHANNELIZING LINE, 8"	YL	WORK ZONE YIELD LINE, (W)
DY	WORK ZONE DOUBLE SOLID LINE, (Y), 4"	AR	WORK ZONE LANE ARROW	WZIA	WORK ZONE IMPACT ATTENUATOR

HATCH LEGEND

PROPOSED WORK ZONE

PAVEMENT FOR M.O.T., CLASS A

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

END ROAD WORK
G20-2-48
STA. 79+87

LL
+87
EY

JCT EAST 35

12'
12'
S.R. 435 W.B.
12'
12'
S.R. 435 E.B.

85 86 87 88

MATCH LINE STA. 88+50

ROAD WORK AHEAD
W20-1-36
STA. 79+87

RAMP FROM U.S. 35 W.B.

DO NOT ENTER
STOP

LL
W9-3L-48
STA. 85+40
LEFT LANE CLOSED AHEAD

PRIVATE DRIVE

435 JCT

SIGN LEGEND

- REMOVE AND DISPOSE OF EXISTING SIGN
- EXISTING SIGN TO REMAIN
- PROPOSED SIGN
- COVER EXISTING SIGN

xxx = REMOVAL OF EXISTING PAVEMENT MARKINGS

DAVIDSON-SOLLARS RD.

LL
DY
+40
EY
+60

MATCH LINE STA. 88+50

12'
12'
S.R. 435 W.B.
12'
12'
S.R. 435 E.B.

89 90 91 92 93 94

DRUMS @ 55' C/C
DRUMS @ 25' C/C

LL
PRIVATE DRIVE
ODOT SHADE
ODOT GARAGE
W9-1L-48
STA. 90+40
LEFT LANE ENDS
DL
EY
+50

MATCH LINE STA. 94+00

MAINTENANCE OF TRAFFIC (BU5)
PHASE 4 - S.R. 435 STA. 79+87 TO STA. 94+00

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 54 | TOTAL: 246

FAY-435-1.52

MODEL: Sheet 1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:55 PM USER: dan-f
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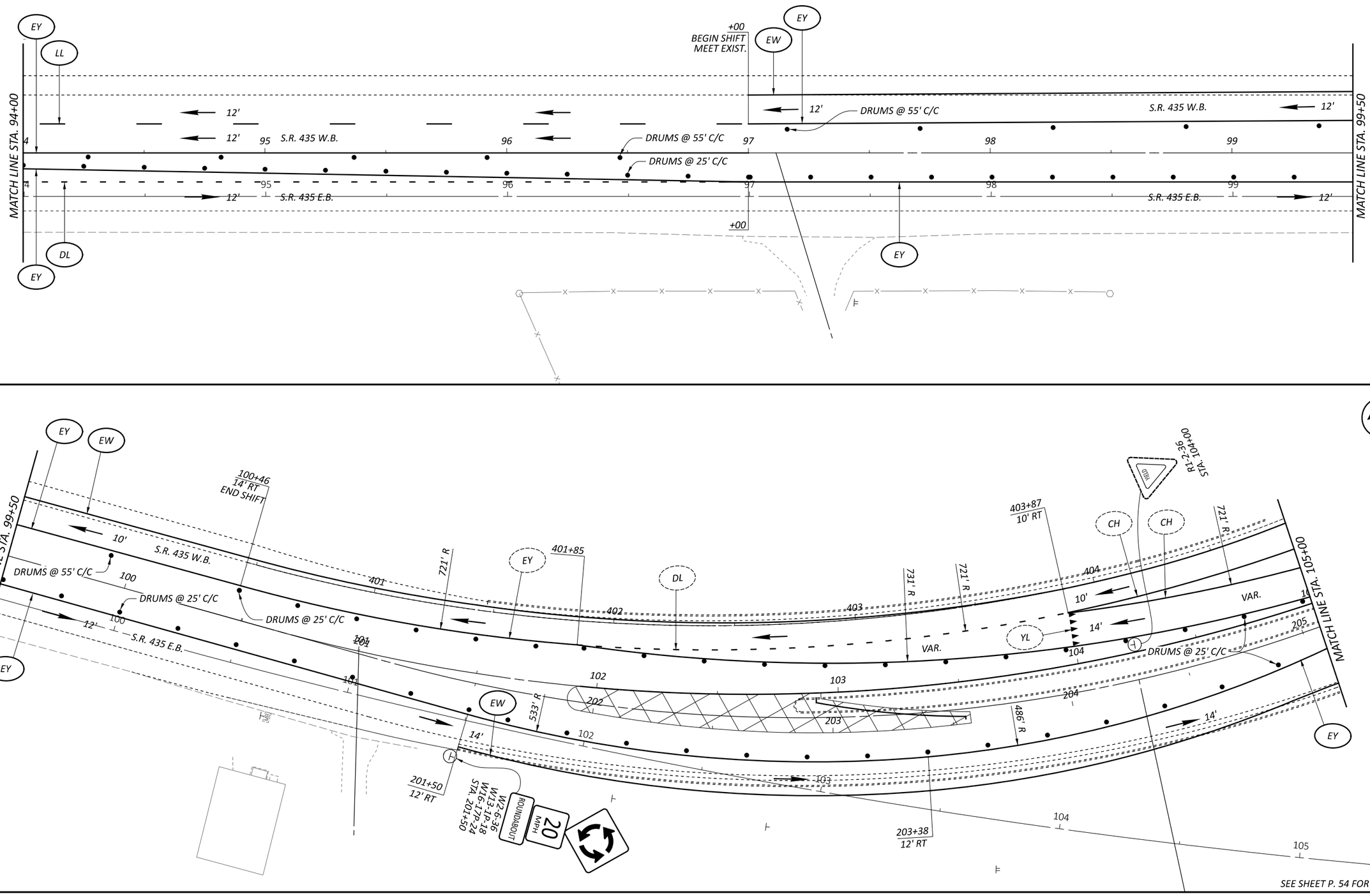

HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC (BU5)
PHASE 4 - S.R. 435 STA. 94+00 TO STA. 105+00

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI, OH 45249
513-469-1600

DESIGNER	DPF
REVIEWER	DCJ 05/10/24
PROJECT ID	117955
SHEET	P. 55
TOTAL	246

FAY-435-1.52

MODEL: Sheet 2 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:56 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\MOT\Sheets\BU-5\117955_MP004.dgn

MODEL: Sheet 3 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:57 PM USER: dan-f
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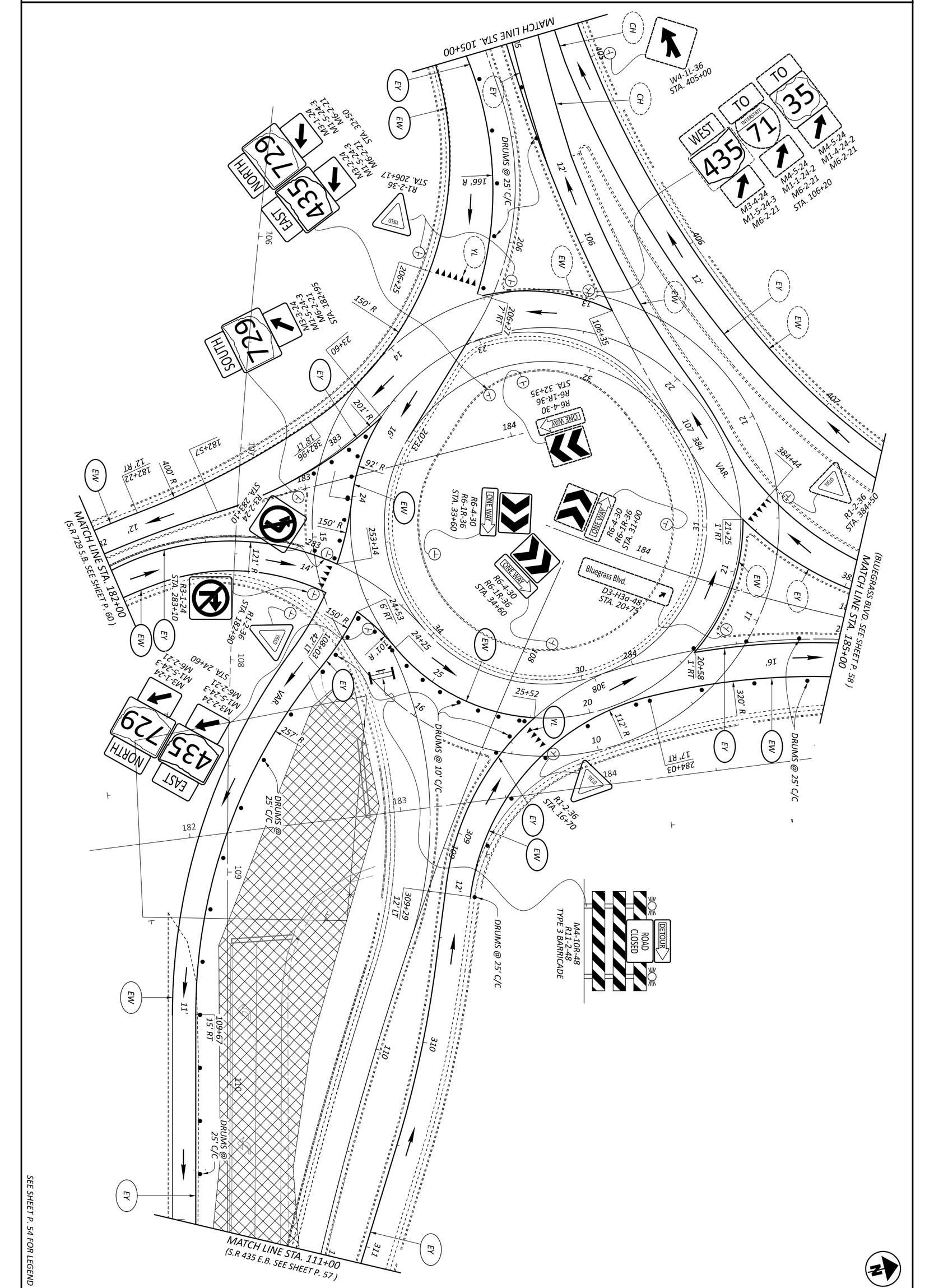
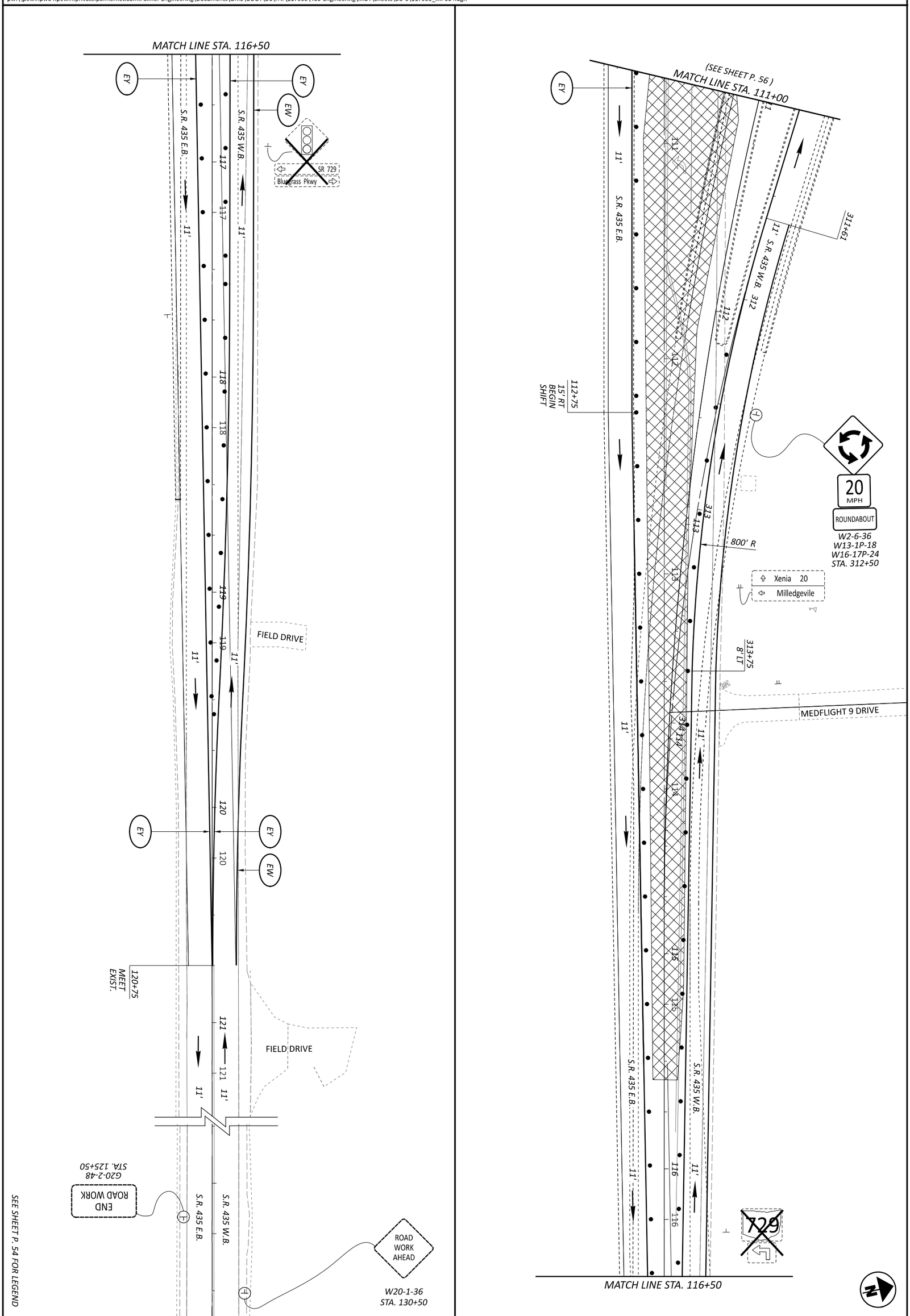


SHEET P. 56	TOTAL 246	PROJECT ID 117955	DESIGNER DPF	REVIEWER DCJ 05/10/24	DESIGN AGENCY Palmer ENGINEERING 8350 E. KEMPER RD. SUITE B CINCINNATI, OH 45249 513-469-1600

MAINTENANCE OF TRAFFIC (BU5)
PHASE 4 - S.R. 435 STA. 105+00 TO STA. 111+00

HORIZONTAL SCALE IN FEET
0 20
10 40

MODEL: Sheet 4 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:30:59 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\MOT\Sheets\BU-5\117955_MP004.dgn



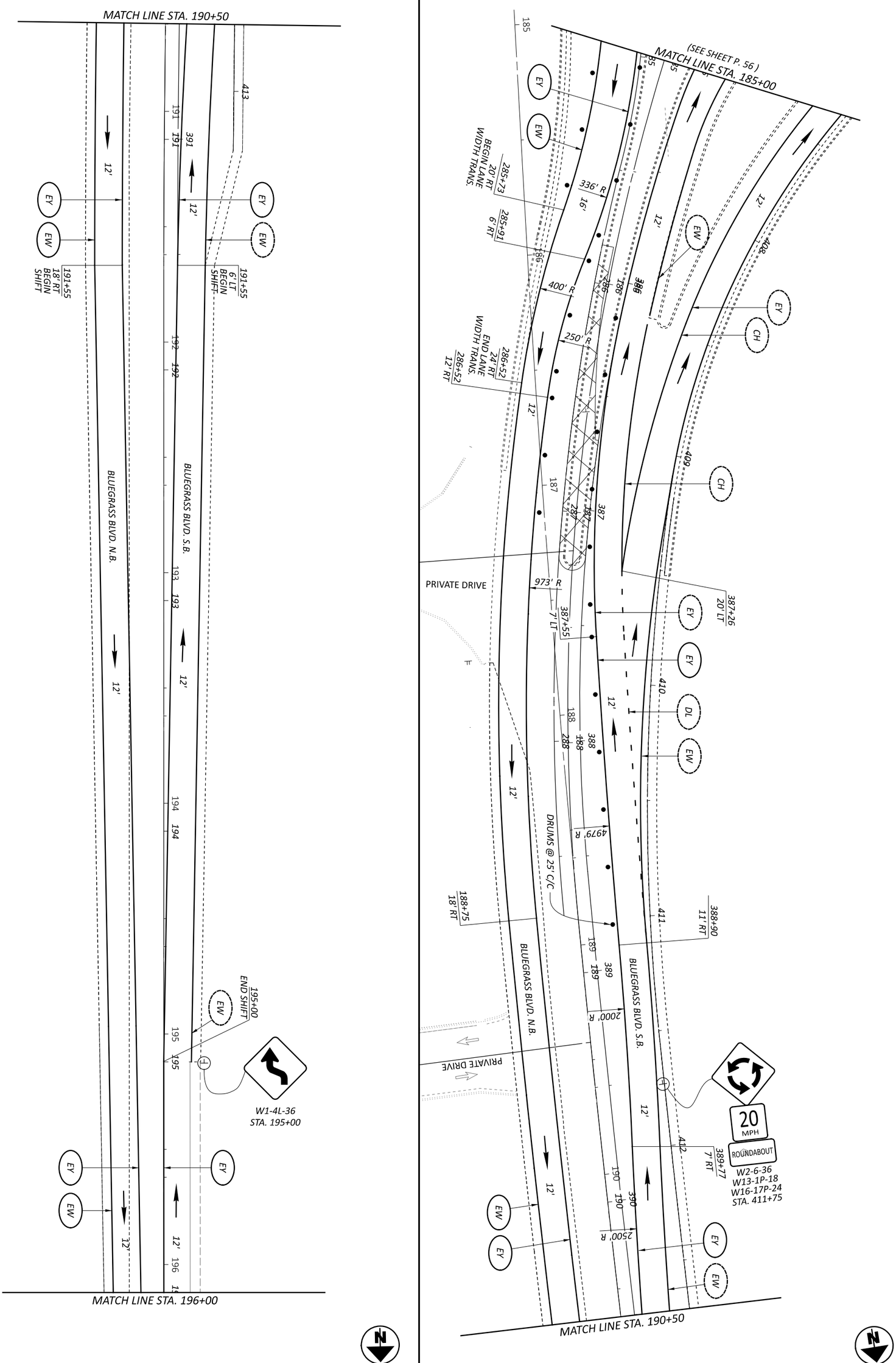
SEE SHEET P. 54 FOR LEGEND

SHEET P. 57 / TOTAL 246	PROJECT ID 117955	REVIEWER DCJ 05/10/24	DESIGNER DPF	DESIGN AGENCY Palmer ENGINEERING 8350 E. KEMPER RD. SUITE B CINCINNATI,OH 45249 513-469-1600

MAINTENANCE OF TRAFFIC (BU5)
PHASE 4 - S.R. 435 STA. 111+00 TO STA. 130+50

HORIZONTAL SCALE IN FEET
0 20
10 40

MODEL: Sheet 5 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:31:00 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\MOT\Sheets\BU-5\117955_MP004.dgn



SEE SHEET P. 54 FOR LEGEND

MAINTENANCE OF TRAFFIC (BU5)
PHASE 4 - BLUEGRASS BLVD. STA. 185+00 TO STA. 196+00

HORIZONTAL SCALE IN FEET
0 20
10 40

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD. SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 58 TOTAL 246

MODEL: Sheet 6 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:31:01 PM USER: dan-f
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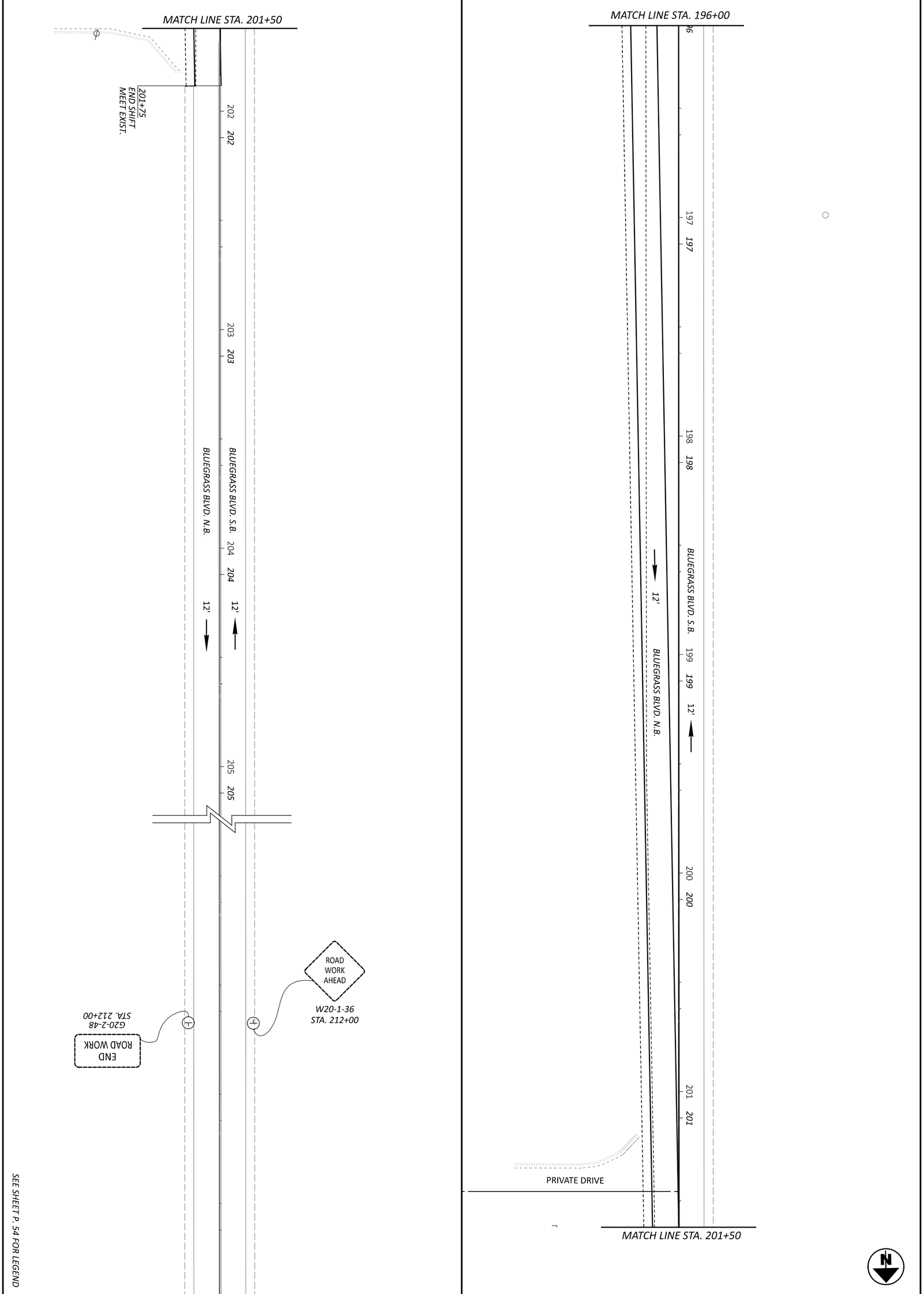

SEE SHEET P. 54 FOR LEGEND

MAINTENANCE OF TRAFFIC (BU5)
PHASE 4 - BLUEGRASS BLVD. STA. 196+00 TO STA. 212+00

HORIZONTAL SCALE IN FEET
0 20
10 40

SHEET	TOTAL
P. 59	246

PROJECT ID: 117955

REVIEWER: DCJ 05/10/24

DESIGNER: DPF

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD. SUITE B
CINCINNATI,OH 45249
513-469-1600

MODEL: Sheet 7 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:31:03 PM USER: dan-f
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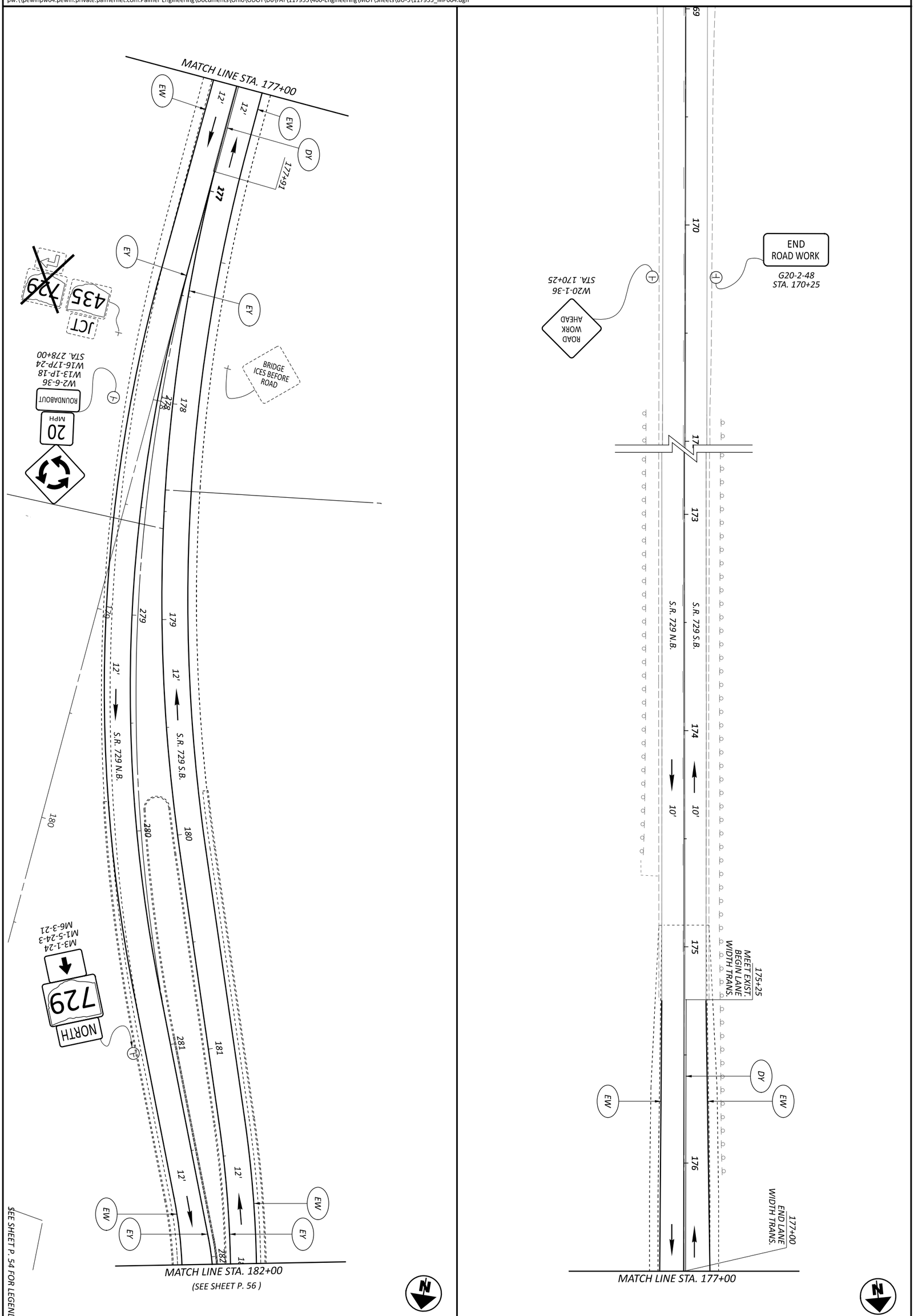


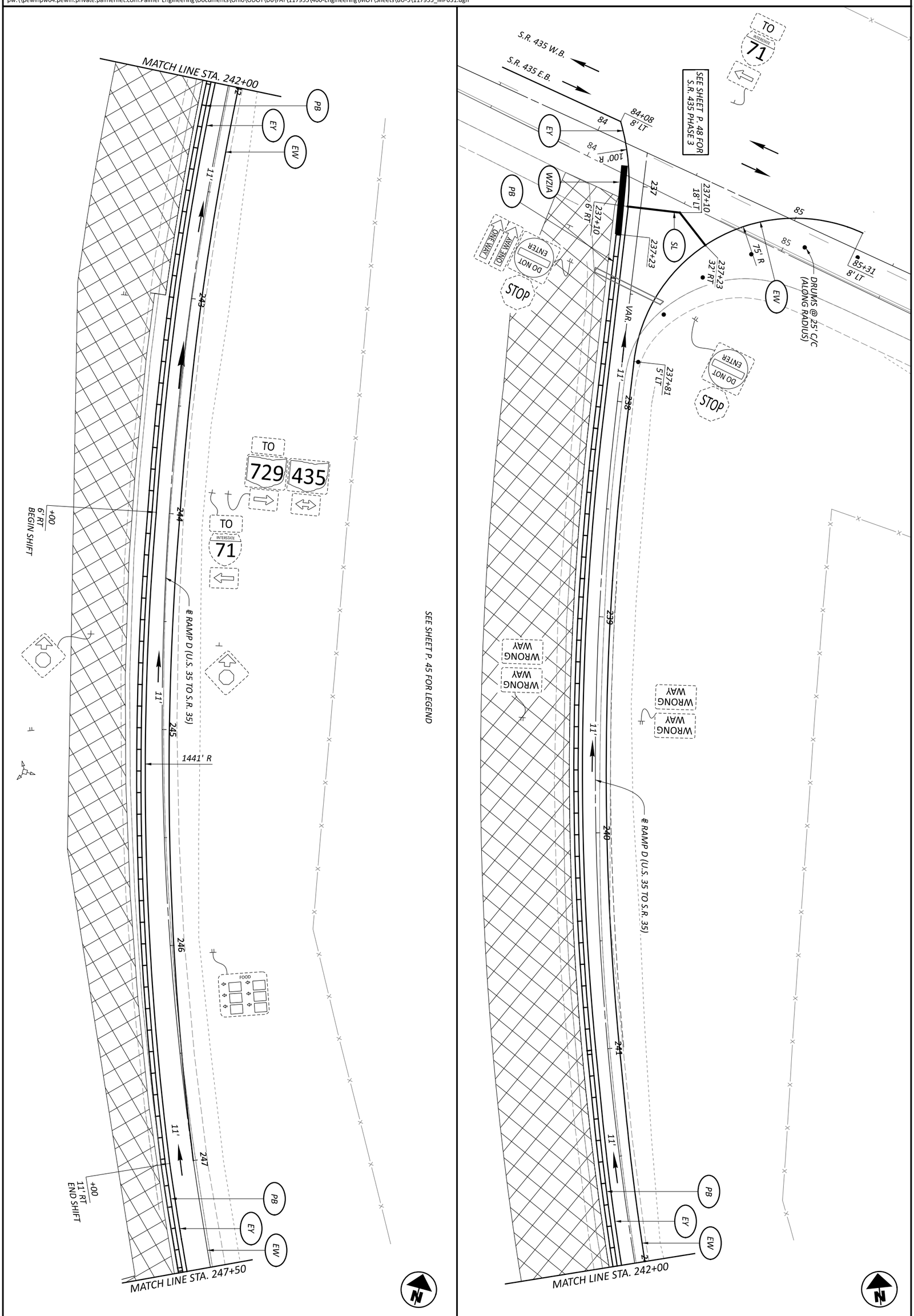
SHEET P. 60	TOTAL 246	PROJECT ID 117955	REVIEWER DCJ 05/10/24	DESIGNER DPF	DESIGN AGENCY Palmer ENGINEERING 8350 E. KEMPER RD. SUITE B CINCINNATI,OH 45249 513-469-1600

MAINTENANCE OF TRAFFIC (BU5)
PHASE 4 - S.R. 729 STA. 170+25 TO STA. 182+00

HORIZONTAL SCALE IN FEET
0 20
10 40

FAY-435-1.52

MODEL: Sheet 1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:31:13 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\MOT\Sheets\BU-5\117955_MP031.dgn

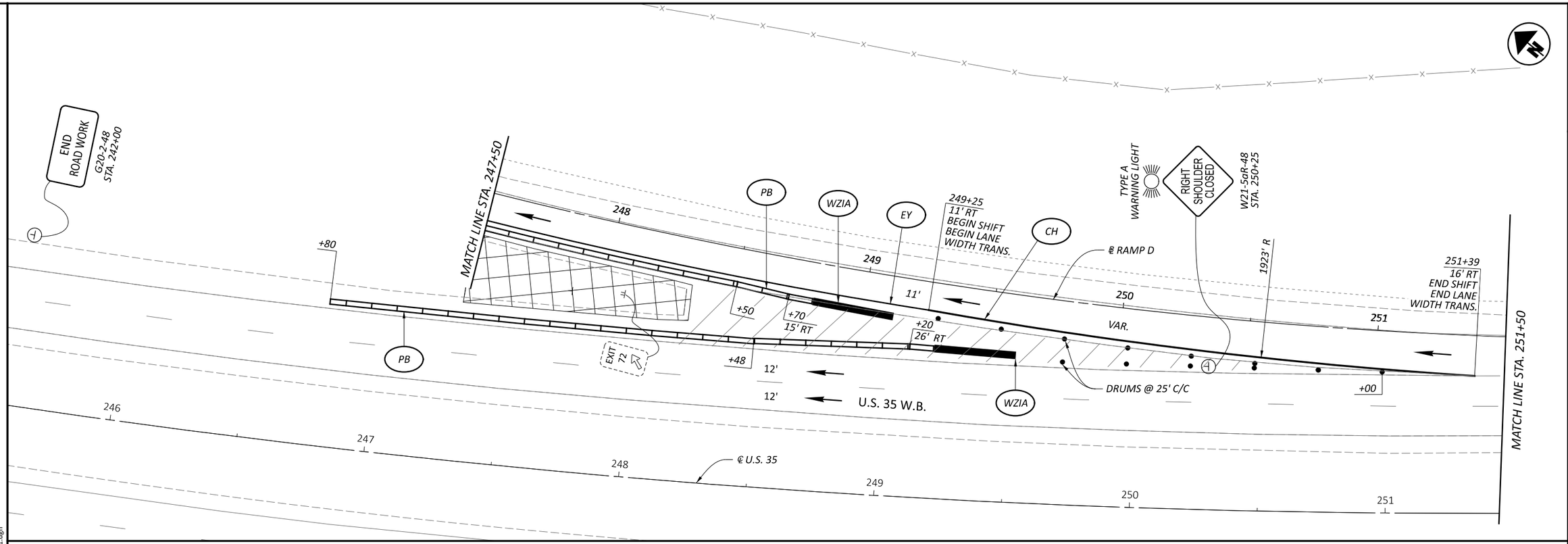


SHEET P. 61	TOTAL 246	PROJECT ID 117955	REVIEWER DCJ 05/10/24	DESIGNER DPF

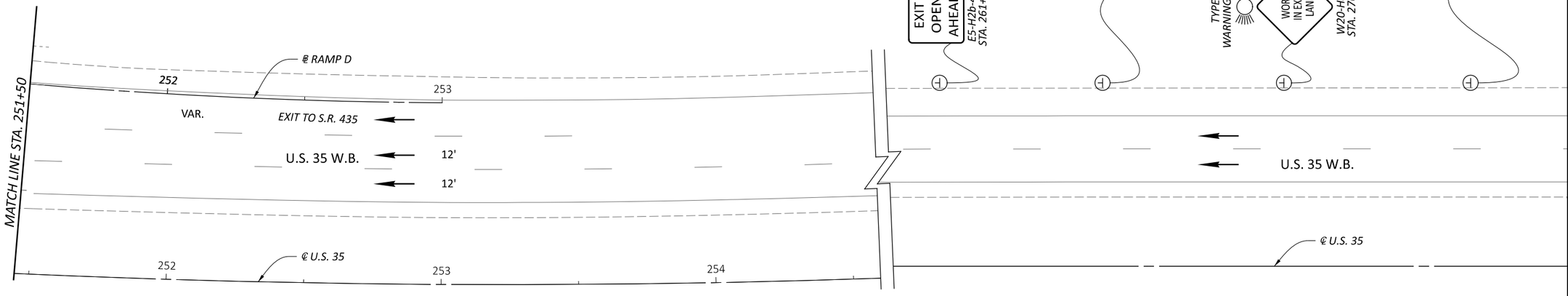
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

MAINTENANCE OF TRAFFIC (BU5)
PHASE 3A - RAMP D (U.S. 35 TO S.R. 435) STA. 236+84 TO STA. 247+50

HORIZONTAL SCALE IN FEET
0 20
10 40



SEE SHEET P. 45 FOR LEGEND



HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC (BU5)
PHASE 3A - RAMP D (U.S. 35 TO S.R. 435) STA. 247+50 TO STA. 302+90

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI, OH 45249
513-469-1600

DESIGNER
DPF

REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 62 | TOTAL 246

FAY-435-1.52

MODEL: Sheet 2 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:31:14 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\V00-Engineering\MOT\Sheets\BU-5\117955_MP031.dgn

FAY-435-1.52

MODEL: Sheet 1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:31:24 PM USER: dan-f
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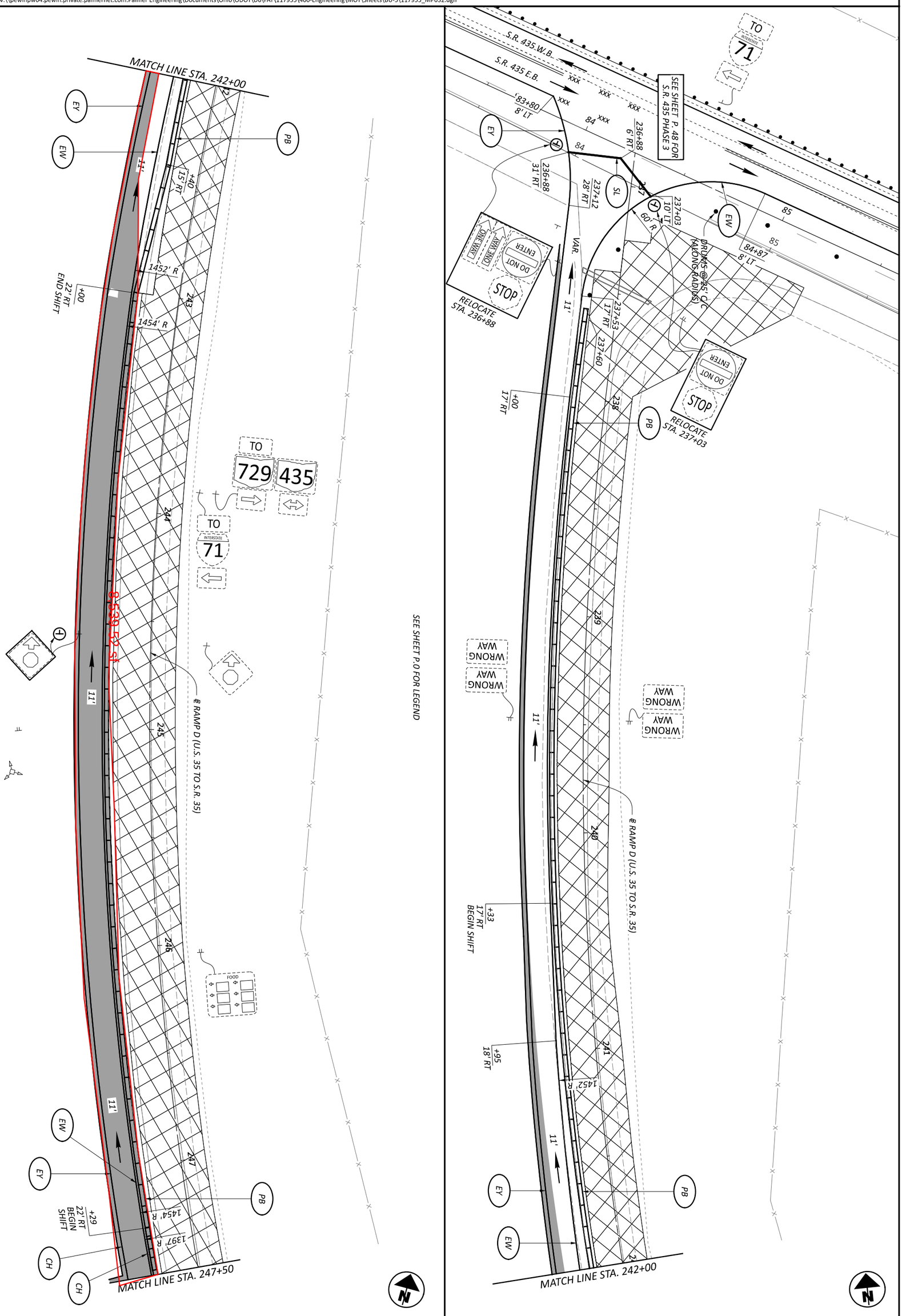
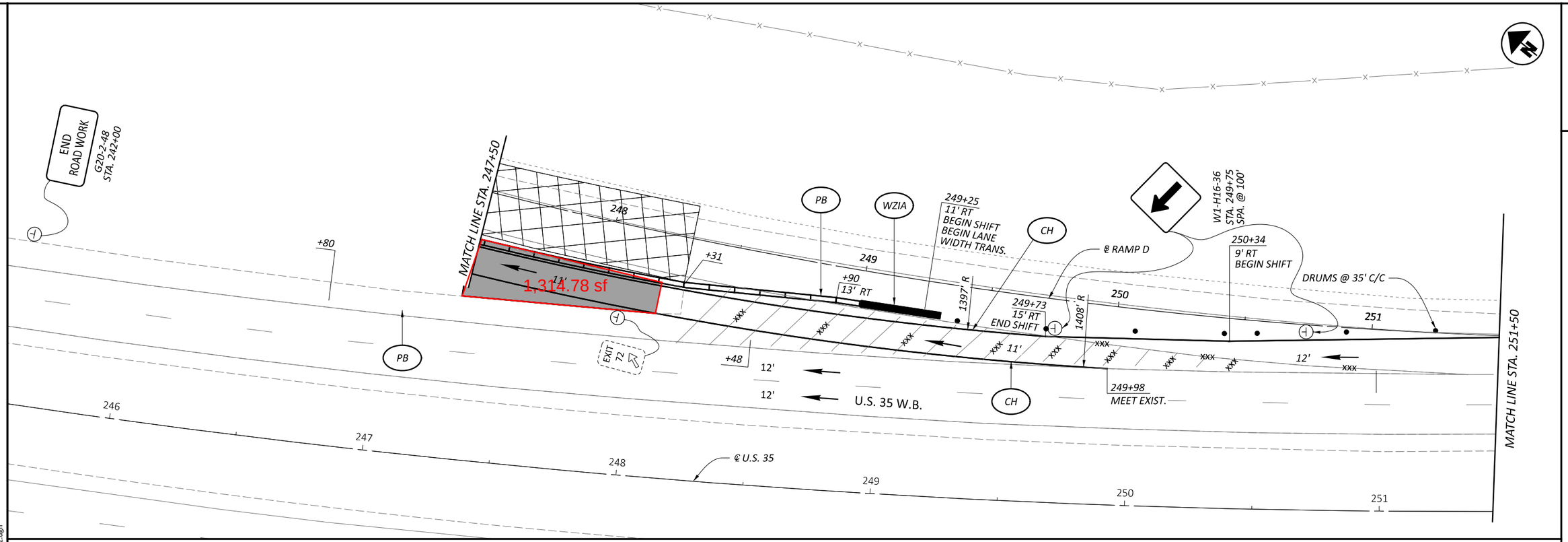


MAINTENANCE OF TRAFFIC (BU5)
PHASE 3B - RAMP D (U.S. 35 TO S.R. 435) STA. 236+84 TO STA. 247+50

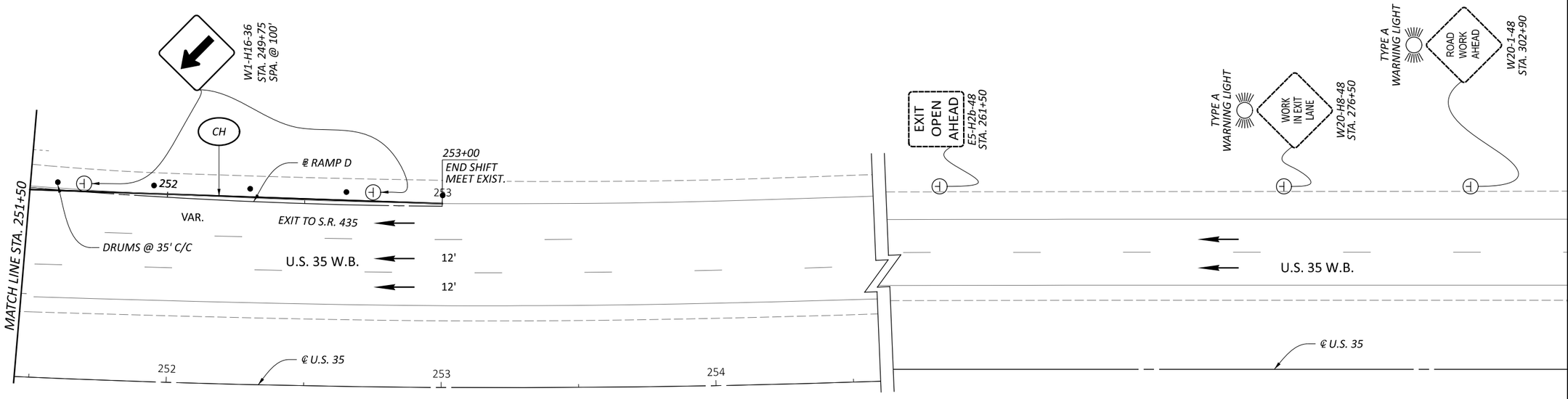
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD. SUITE B
CINCINNATI, OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 63 TOTAL 246

HORIZONTAL SCALE IN FEET
0 20
10 40



SEE SHEET P.0 FOR LEGEND



MAINTENANCE OF TRAFFIC (BU5)
PHASE 3B - RAMP D (U.S. 35 TO S.R. 435) STA. 247+50 TO STA. 302+90

FAY-435-1.52

MODEL: Sheet 2 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:31:25 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\V00-Engineering\MOT\Sheets\BU-5\117955_MP032.dgn

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI, OH 45249
513-469-1600

DESIGNER
DPF

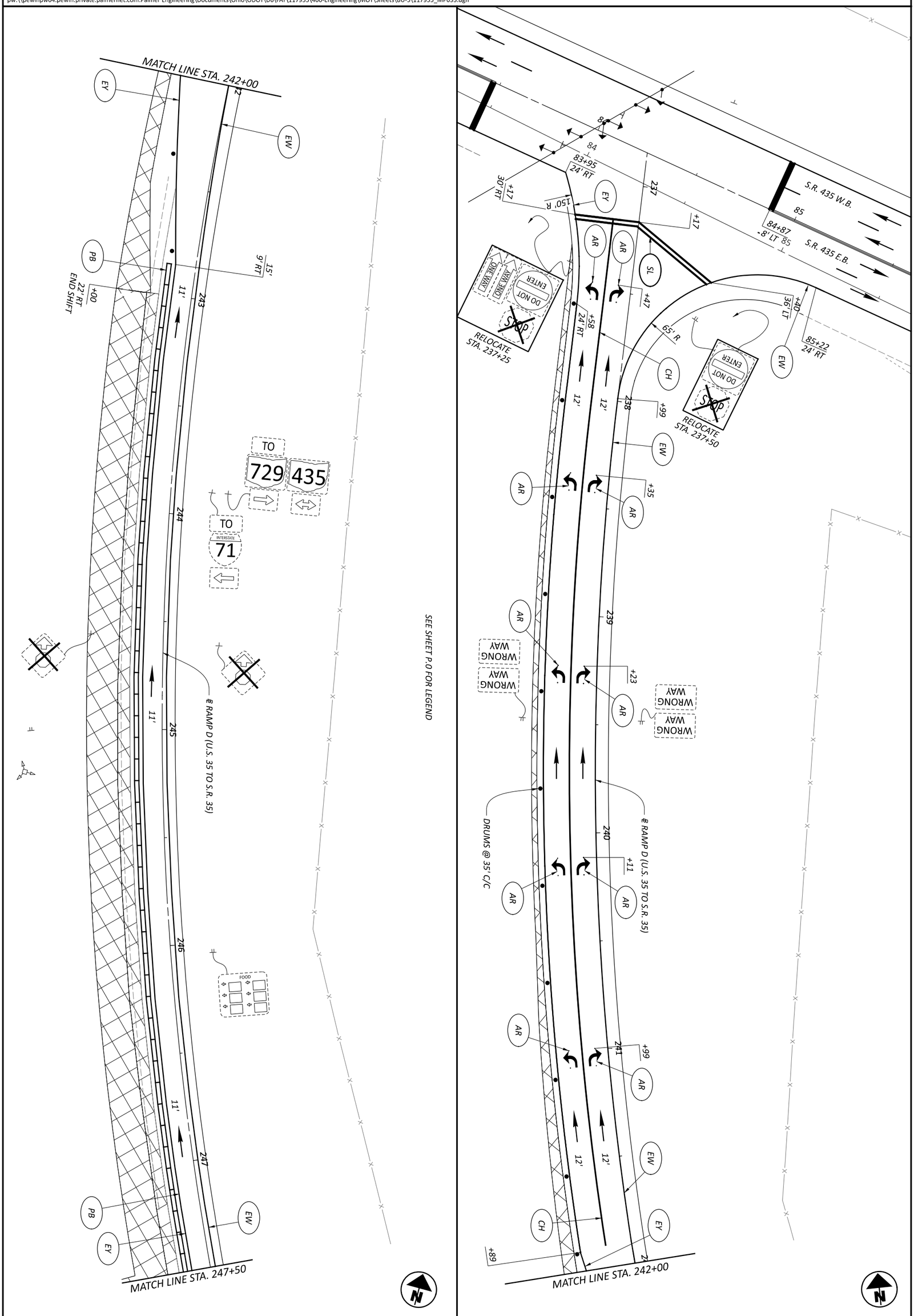
REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 64 | TOTAL 246

FAY-435-1.52

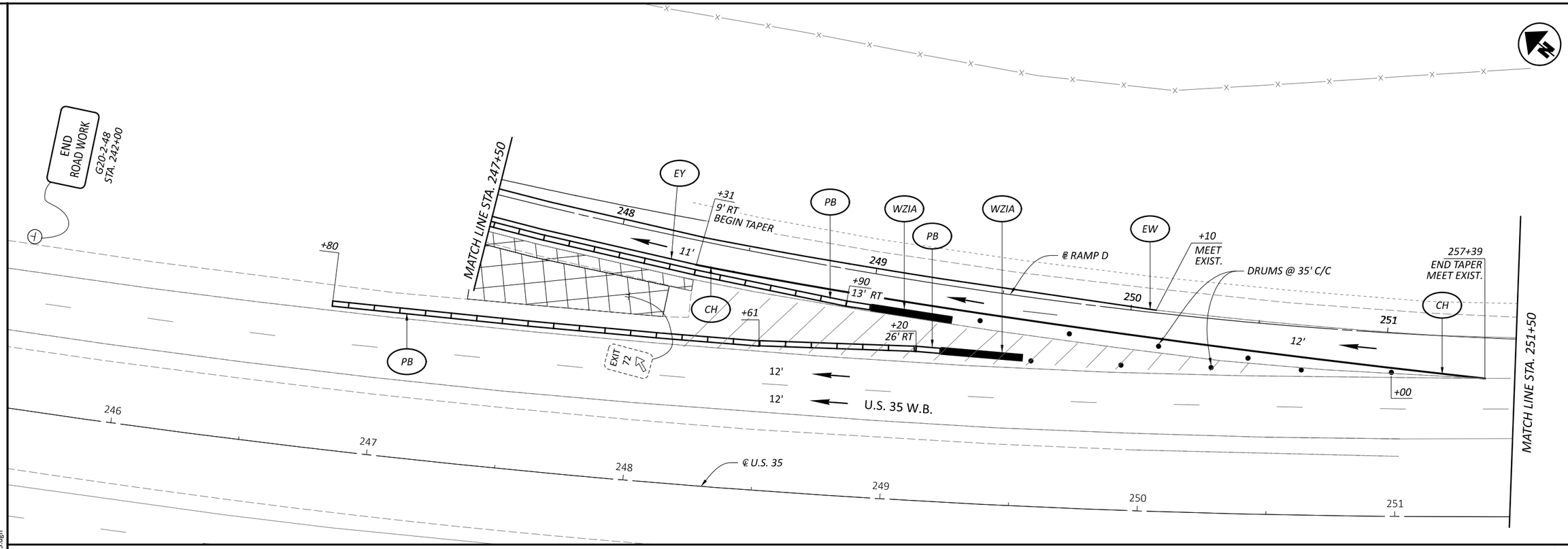
MODEL: Sheet 1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:31:35 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\MOT\Sheets\BU-5\117955_MP033.dgn



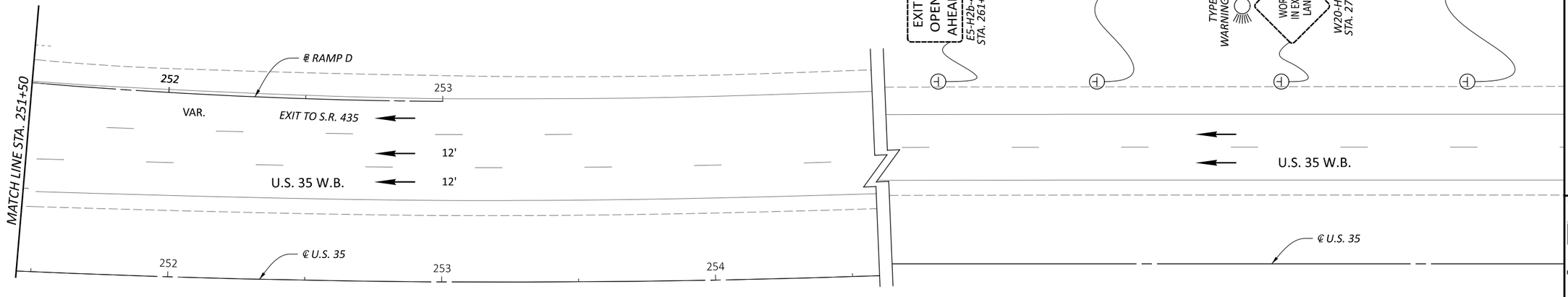
SHEET P. 65	TOTAL 246		
PROJECT ID 117955			
REVIEWER DCJ 05/10/24			
DESIGNER DPF			
DESIGN AGENCY Palmer ENGINEERING 8350 E. KEMPER RD. SUITE B CINCINNATI,OH 45249 513-469-1600			

MAINTENANCE OF TRAFFIC (BU5)
PHASE 3C - RAMP D (U.S. 35 TO S.R. 435) STA. 236+84 TO STA. 247+50

HORIZONTAL SCALE IN FEET
0 20
10 40



SEE SHEET P.0 FOR LEGEND



HORIZONTAL SCALE IN FEET
0 10 20 40
40'-0"

MAINTENANCE OF TRAFFIC (BU5)
PHASE 3C - RAMP D (U.S. 35 TO S.R. 435) STA. 247+50 TO STA. 302+90

FAY-435-1.52

MODEL: Sheet 2 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:31:36 PM USER: dan-f
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DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD. SUITE B
CINCINNATI, OH 45249
513-469-1600

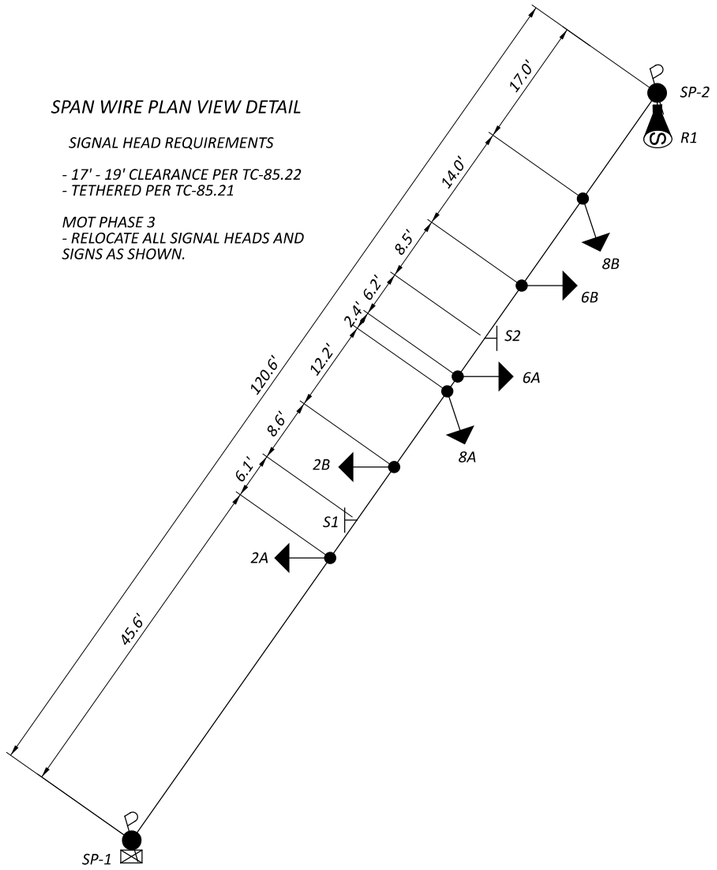
DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 66 TOTAL 246

SPAN WIRE PLAN VIEW DETAIL

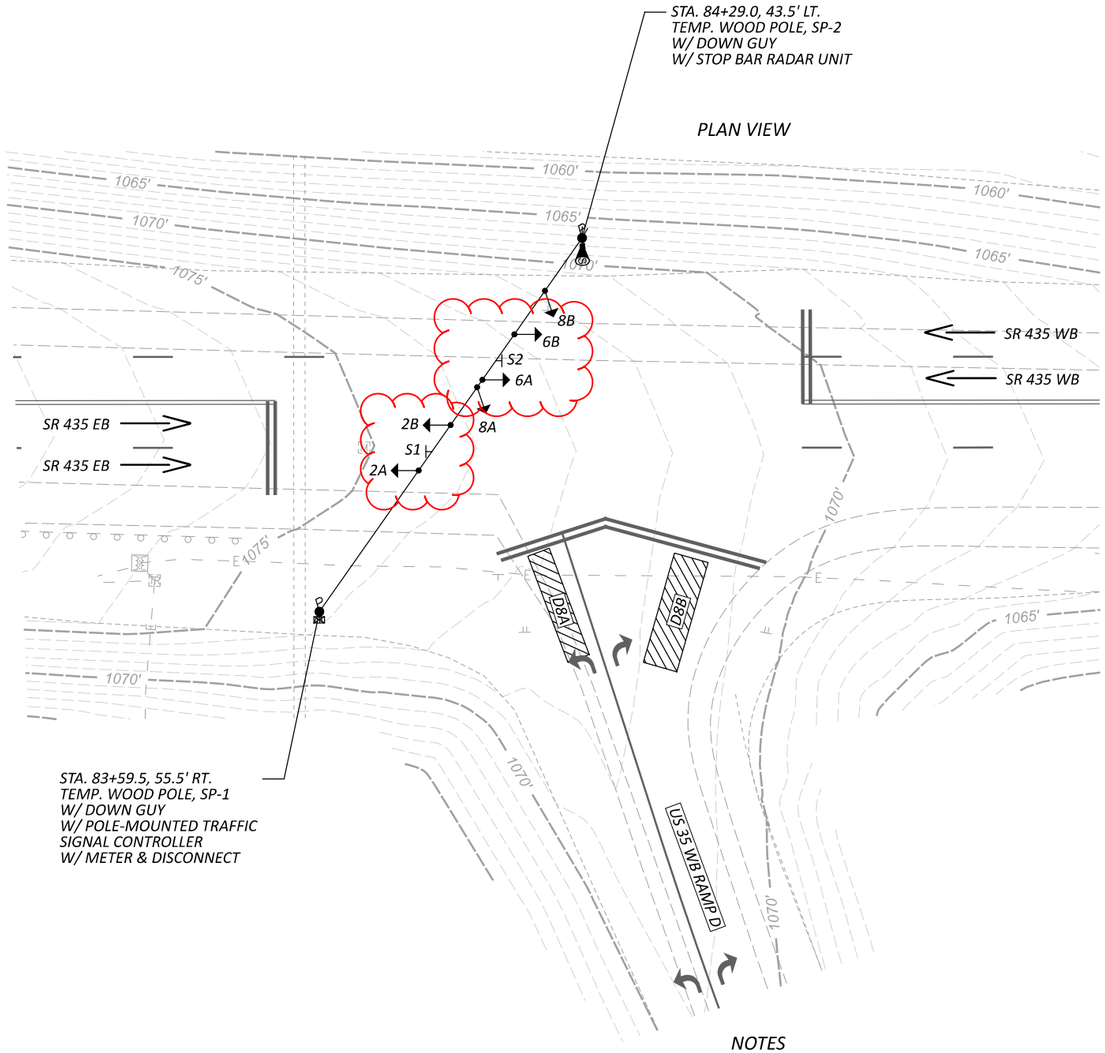
SIGNAL HEAD REQUIREMENTS

- 17' - 19' CLEARANCE PER TC-85.22
- TETHERED PER TC-85.21

MOT PHASE 3
- RELOCATE ALL SIGNAL HEADS AND SIGNS AS SHOWN.



PLAN VIEW



HORIZONTAL SCALE IN FEET
0 10 20 40

LEGEND

	PROP	EXIST
TRAFFIC SIGNAL, 3 UNIT HEAD, 12"	⟶	⇢
WOOD POLE		
SIGN	⊣	⊣
CONTROLLER CABINET POLE MOUNTED	⊠	⊠
ADVANCE RADAR DETECTION UNIT	D	D
STOP LINE RADAR DETECTION UNIT	S	S
DETECTION ZONE		

PROPOSED SIGNAL HEADS*

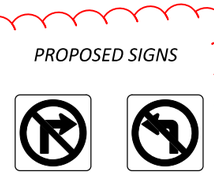
12"

R
Y
G

2A, 2B, 6A, 6B, 8A, 8B

* - VEHICLE SIGNAL HEADS DO NOT INCLUDE BACKPLATES

PROPOSED SIGNS



R3-1-36 (36" x 36") S1

R3-2-36 (36" x 36") S2

NOTES

1. INSTALL 2 TEMPORARY WOOD POLES WITH DOWN GUY AT THE LOCATIONS SHOWN.
2. INSTALL MESSENGER WIRE AND TETHER WIRE AS SHOWN.
3. INSTALL 6 VEHICULAR SIGNAL HEADS AND 5/C SIGNAL CABLE FOR EACH APPROACH.
4. INSTALL 1 STOP BAR RADAR UNIT AS SHOWN.
4. INSTALL A TEMPORARY POLE MOUNTED SIGNAL CABINET AND RISER ON POLE, SP-1. INCLUDE ALL REQUIRED EQUIPMENT TO OPERATE THE TRAFFIC SIGNAL AS SHOWN IN THE PLANS.
5. CONTACT AES OHIO TO PROVIDE TEMPORARY 120V ELECTRIC POWER. ROUTE AERIAL SERVICE TO TEMPORARY METER AND DISCONNECT MOUNTED ON WOOD POLE, SP-1.
6. PLACE IN NORMAL OPERATION PER SCD MT-120.00.

TEMPORARY TRAFFIC SIGNAL PLAN SR-435 & US 35 WB RAMP D

DESIGN AGENCY
PLANS PREPARED BY:
TEC Engineering, Inc.
12288 Central Parke Blvd
Mason, OH 45040

DESIGNER TEC

REVIEWER MJH 04/29/24

PROJECT ID 117955

SHEET P. 67 | TOTAL 246

FAY-435-1.52

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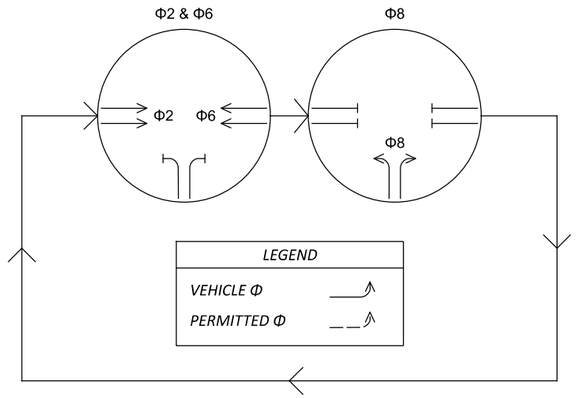
\\10.1.2.4\Projects\2023 Projects\23068 Palmer Engineering\002 FAY-435-1.52\117955\400-Engineering\Signals\Sheets\117955_CP_MOT.dgn

SIGNAL TIMING CHART

INTERSECTION: SR 435 & US 35 WB RAMP D MAINTAINING AGENCY: ODOT									
START UP START IN: ALL RED FLASH TIME FOR FLASH, ALL RED: 5 SEC FIRST PHASE(S): 2 & 6 COLOR DISPLAYED: GREEN			DUAL ENTRY: ON		PHASES:		2 & 6		
			REST IN RED:		RING 1	-	RING 2	-	
			OVERLAP			-	-	-	-
			PHASES			-	-	-	-
INTERVAL OR FEATURE			CONTROLLER MOVEMENT NO.						
INTERSECTION MOVEMENT (PHASE)			1	2	3	4	5	6	7	8
DIRECTION			-	EB	-	-	-	WB	-	NB
MINIMUM GREEN (INITIAL)		(SEC.)	-	23	-	-	-	20	-	10
ADDED INITIAL		*(SEC./ACTUATION)	-	-	-	-	-	-	-	-
MAXIMUM INITIAL		*(SEC.)	-	-	-	-	-	-	-	-
PASSAGE TIME (PRESET GAP)		(SEC.)	-	-	-	-	-	-	-	-
TIME BEFORE REDUCTION		*(SEC.)	-	-	-	-	-	-	-	-
MINIMUM GAP		*(SEC.)	-	2	-	-	-	2	-	4
TIME TO REDUCE		*(SEC.)	-	-	-	-	-	-	-	-
MAXIMUM GREEN I		(SEC.)	-	60	-	-	-	60	-	40
MAXIMUM GREEN II		(SEC.)	-	60	-	-	-	60	-	40
YELLOW CHANGE		(SEC.)	-	5.6	-	-	-	5.6	-	4.8
ALL RED CLEARANCE		(SEC.)	-	1.0	-	-	-	1.0	-	1.0
WALK		(SEC.)	-	-	-	-	-	-	-	-
PEDESTRIAN CLEARANCE		(SEC.)	-	-	-	-	-	-	-	-
RECALL	MAXIMUM	(ON/OFF)	-	OFF	-	-	-	OFF	-	OFF
	MINIMUM	(ON/OFF)	-	ON	-	-	-	ON	-	OFF
	PEDESTRIAN	(ON/OFF)	-	OFF	-	-	-	OFF	-	OFF
MEMORY		(ON/OFF)	-	-	-	-	-	-	-	-

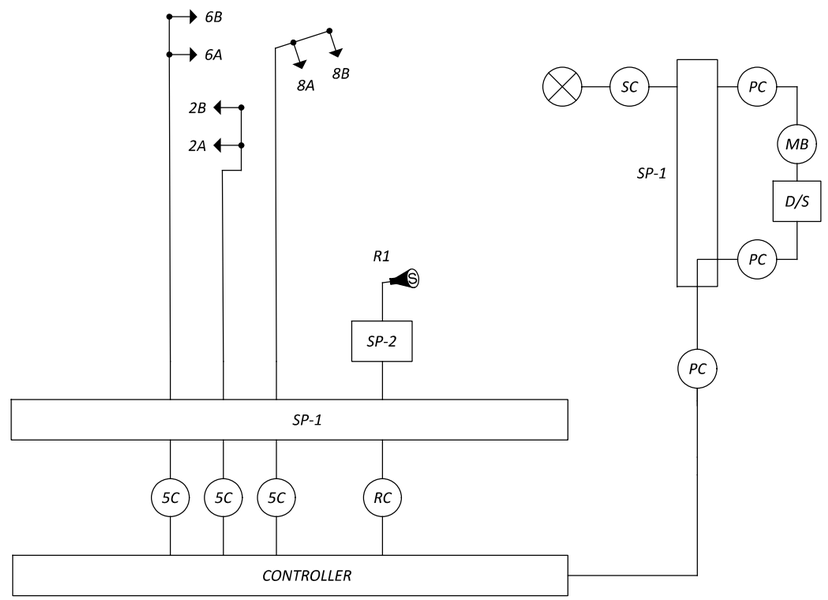
SIGNAL PHASING DIAGRAM



FIELD WIRING HOOK-UP CHART

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
2A, 2B (EB)	R	Φ 2R	R
	Y	Φ 2Y	
	G	Φ 2G	
6A, 6B (WB)	R	Φ 6R	R
	Y	Φ 6Y	
	G	Φ 6G	
8A, 8B (NB)	R	Φ 8R	R
	Y	Φ 8Y	
	G	Φ 8G	

WIRING DIAGRAM



WIRING DIAGRAM LEGEND

3-SECTION VEHICULAR SIGNAL HEAD, 1-WAY		#C	SIGNAL CABLE, # CONDUCTOR, NO. 14 AWG
3-SECTION VEHICULAR SIGNAL HEAD, 1-WAY, ARROWS		RC	RADAR DETECTION CABLE
STOP LINE RADAR DETECTOR UNIT			POWER SOURCE
ADVANCE RADAR DETECTOR UNIT		PC SC	POWER CABLE, (3) 1C-NO. 6 AWG SERVICE CABLE, 3C-NO.6 AWG
SP-#	SIGNAL SUPPORT POLE, NO. __	MB	METER BASE
D/S	SIGNAL DISCONNECT SWITCH		

DETECTOR TABLE

DETECTION ZONE	MOVEMENT	PULSE OR PRESENCE	ASSOCIATED PHASE	LOCK/ NON-LOCK	EXTEND (SEC)	DELAY IN CONTROLLER (SEC)	DELAY INHIBIT PHASE	PURPOSE	DETECTION ZONE LENGTH (FT)
D8A	NB LT	PRESENCE	8	NON-LOCK	0	0	8	CALL/EXTEND PHASE 8	30
D8B	NB RT	PRESENCE	8	NON-LOCK	0	10	8	CALL/EXTEND PHASE 8	30

TEMPORARY TRAFFIC SIGNAL PLAN DETAILS
SR-435 & US 35 WB RAMP D

DESIGN AGENCY
PLANS PREPARED BY:
TEC Engineering, Inc.
12268 Central Park Blvd
Mason, OH 45040

DESIGNER: TEC
REVIEWER: MJH 04/29/24
PROJECT ID: 117955
SHEET: P. 68 TOTAL: 246

FAY-435-1.52

MODEL: MT004 PAPERSIZE: 17x11 (in.) DATE: 5/8/2024 TIME: 1:51:24 PM USER: mike
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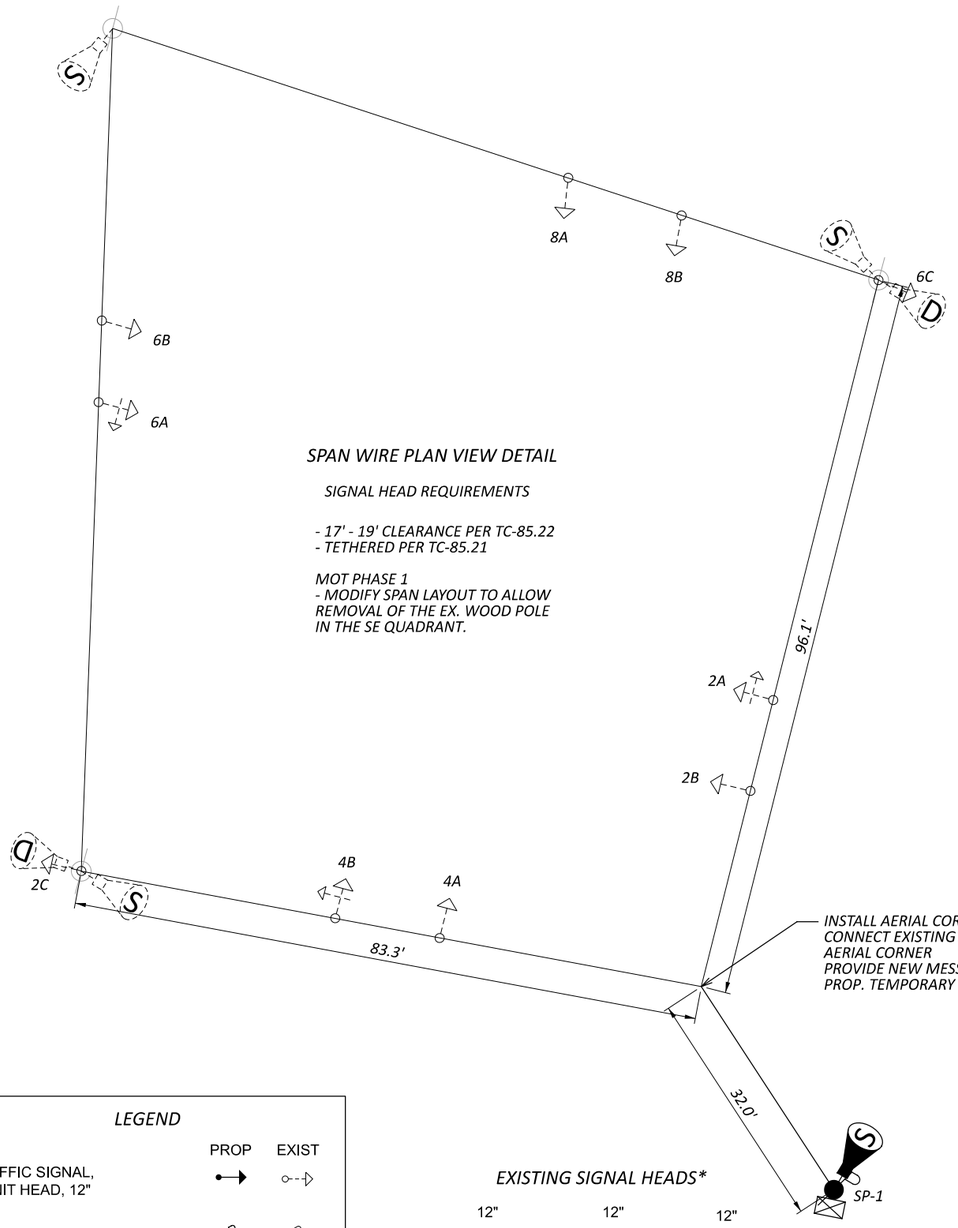
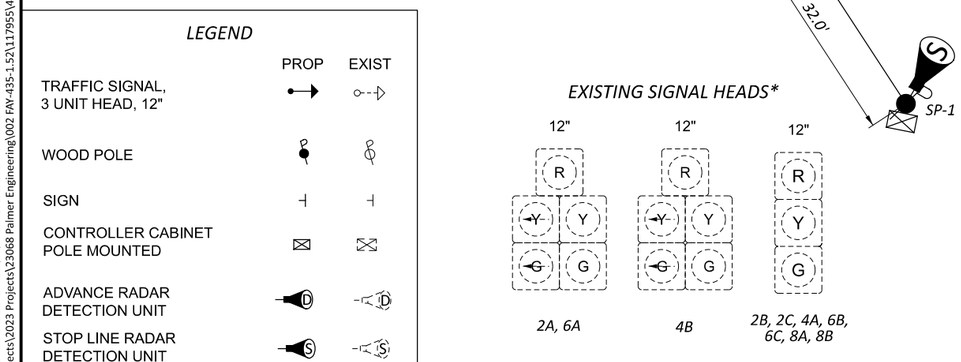
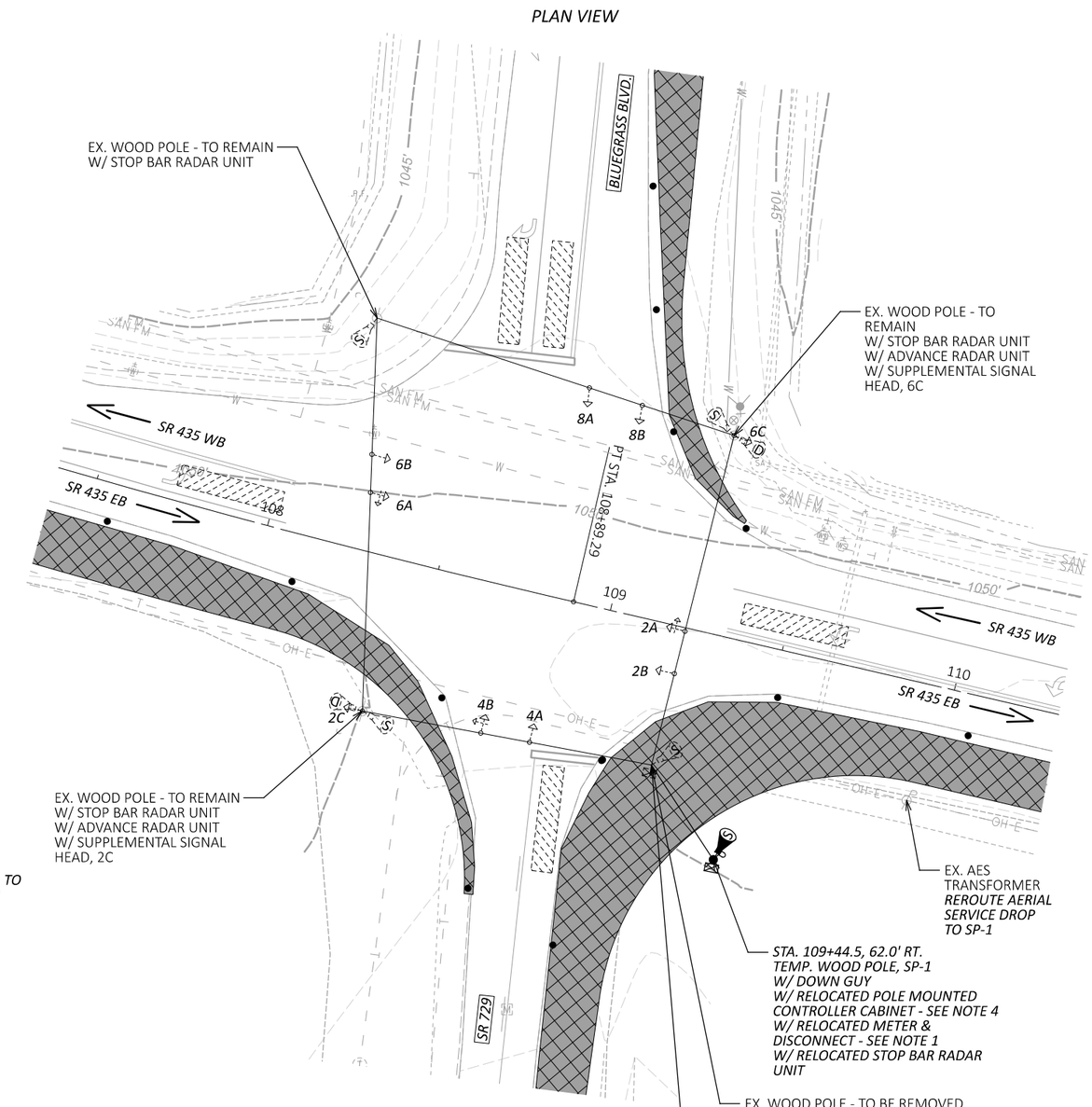




* - VEHICLE SIGNAL HEADS DO NOT INCLUDE BACKPLATES



HORIZONTAL SCALE IN FEET
0 10 20 40

NOTES

1. *INSTALL NEW TEMPORARY WOOD POLE WITH DOWN GUY AT THE LOCATION SHOWN.*
2. *INSTALL NEW MESSENGER WIRE, TETHER WIRE, AND AERIAL BULL RING AS SHOWN TO MAINTAIN THE EXISTING SPAN LAYOUT.*
3. *RELOCATE EXISTING POLE MOUNTED CONTROLLER CABINET TO SP-1. REUSE, EXTEND, OR REPLACE EXISTING 7/C SIGNAL CABLE AND RADAR CABLE AS NEEDED TO MAINTAIN EX. OPERATION.*
4. *REROUTE EXISTING AERIAL SERVICE FEED TO THE RELOCATED METER AND DISCONNECT ON SP-1.*
5. *EXISTING CONTROLLER SETTINGS INCLUDING TIMING, PHASING, AND DETECTOR SETTINGS SHALL REMAIN UNCHANGED.*

TEMPORARY TRAFFIC SIGNAL PLAN
MOT PHASE 1 - SR-435 & BLUEGRASS BLVD.

DESIGN AGENCY
PLAN PREPARED BY:
TEC Engineering, Inc.
12788 Central Parke Blvd
Mason, OH 45040

DESIGNER
TEC

REVIEWER
MJH 04/29/24

PROJECT ID
117955

SHEET P. 69 | TOTAL 246

FAY-435-1.52

MODEL: MT005 PAPERSIZE: 17x11 (in.) DATE: 5/8/2024 TIME: 1:44:48 PM USER: mike
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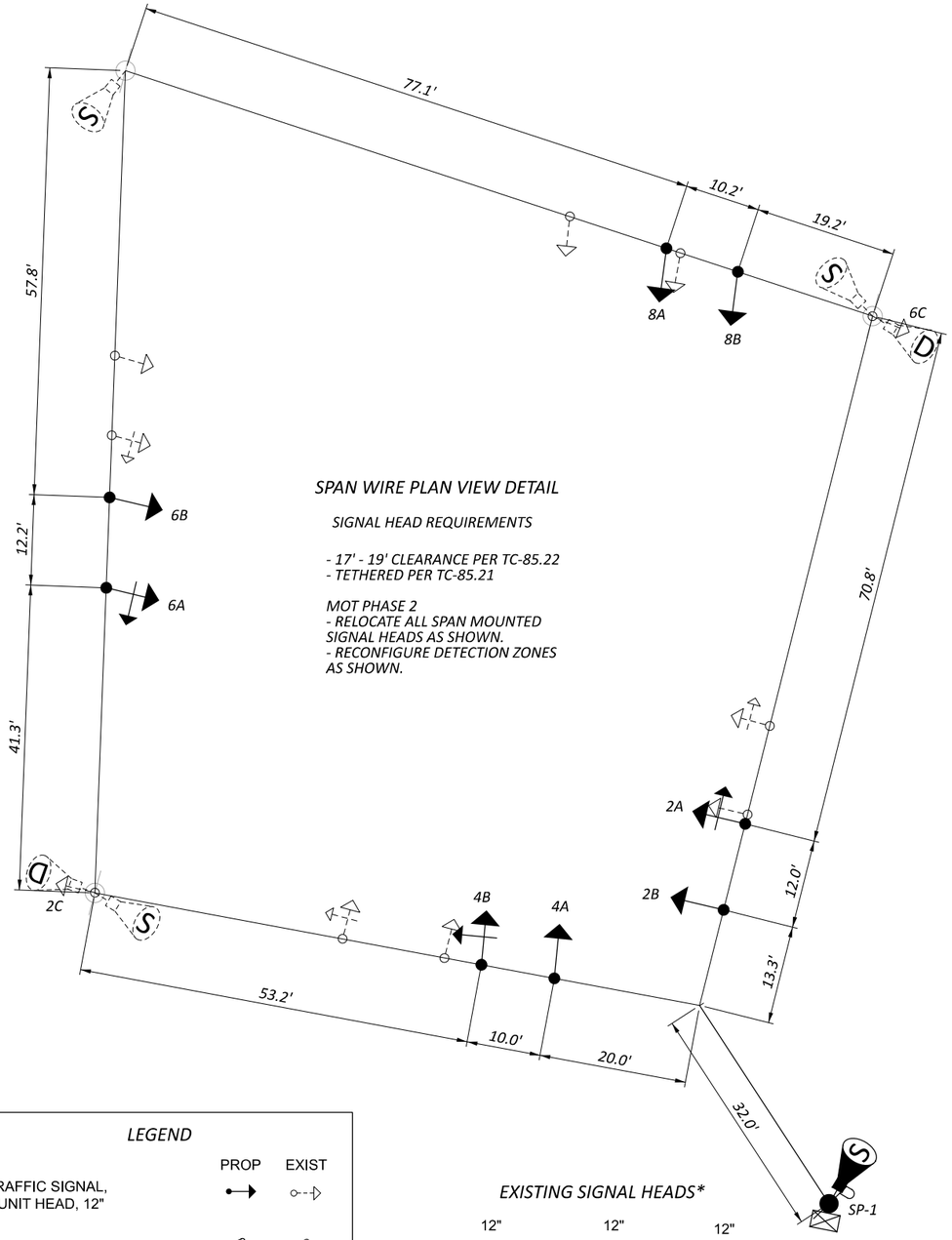


SPAN WIRE PLAN VIEW DETAIL

SIGNAL HEAD REQUIREMENTS

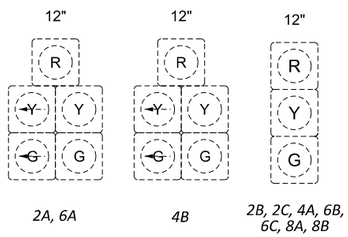
- 17' - 19' CLEARANCE PER TC-85.22
- TETHERED PER TC-85.21

MOT PHASE 2
- RELOCATE ALL SPAN MOUNTED SIGNAL HEADS AS SHOWN.
- RECONFIGURE DETECTION ZONES AS SHOWN.

LEGEND

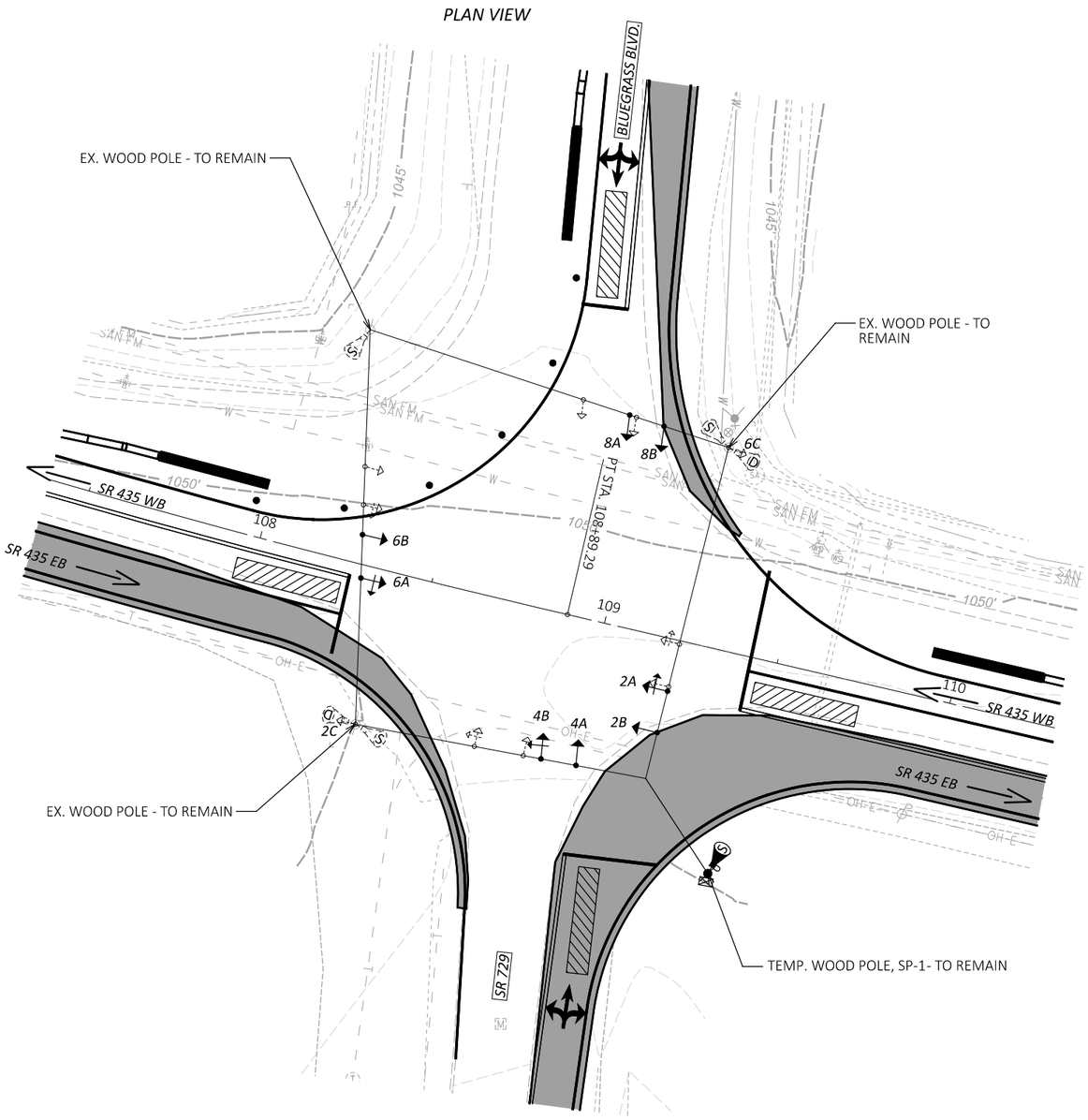
	PROP	EXIST
TRAFFIC SIGNAL, 3 UNIT HEAD, 12"	●→	○--→
WOOD POLE	●	○
SIGN	⊣	⊣
CONTROLLER CABINET POLE MOUNTED	⊠	⊠
ADVANCE RADAR DETECTION UNIT	●D	○D
STOP LINE RADAR DETECTION UNIT	●S	○S
DETECTION ZONE	▨	▨

EXISTING SIGNAL HEADS*



* - VEHICLE SIGNAL HEADS DO NOT INCLUDE BACKPLATES

PLAN VIEW



NOTES

1. *ADJUST VEHICULAR SIGNAL HEAD LOCATIONS AND DETECTION ZONES AS NEEDED BASED ON THE MOT PHASE AND LANE RESTRICTIONS PROPOSED.*
2. *SLACK SIGNAL CABLE SHALL BE COILED AND MOUNTED SECURELY TO THE MESSENGER WIRE NEAR WOOD POLE SP-1 WHEN NOT NEEDED.*
3. *EXISTING CONTROLLER SETTINGS INCLUDING TIMING, PHASING, AND DETECTOR SETTINGS SHALL REMAIN UNCHANGED.*

HORIZONTAL SCALE IN FEET
0 10 20 40

TEMPORARY TRAFFIC SIGNAL PLAN
MOT PHASE 2 - SR-435 & BLUEGRASS BLVD.

DESIGN AGENCY
TEC
TRAFFIC ENGINEERING, INC.
7248 Central Parke Blvd
Mason, OH 45040

DESIGNER
TEC

REVIEWER
MJH 04/29/24

PROJECT ID
117955

SHEET P. 70 | TOTAL 246

FAY-435-1.52

MODEL: MT006 PAPERSIZE: 17x11 (ln.) DATE: 5/8/2024 TIME: 1:56:21 PM USER: mike
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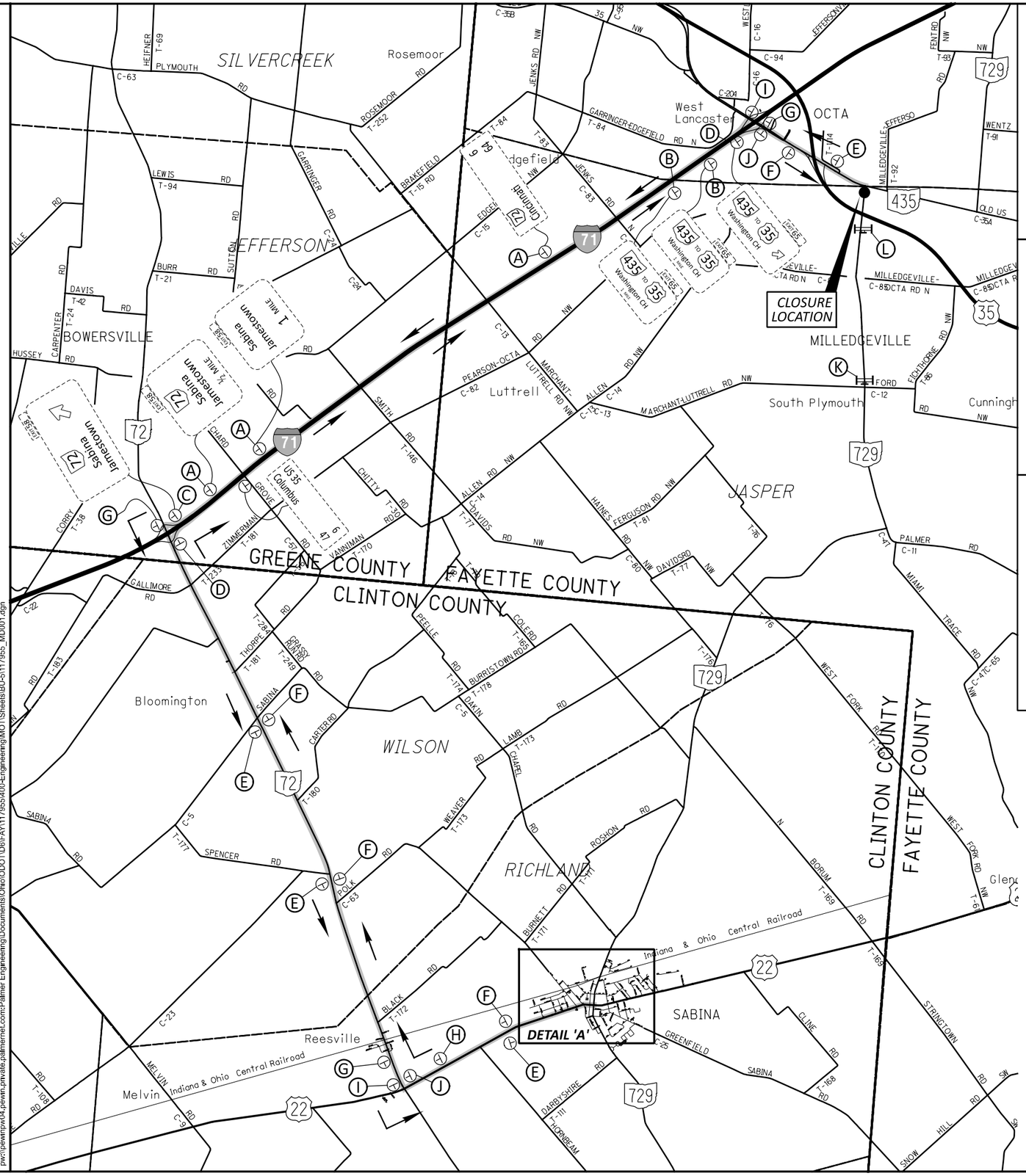

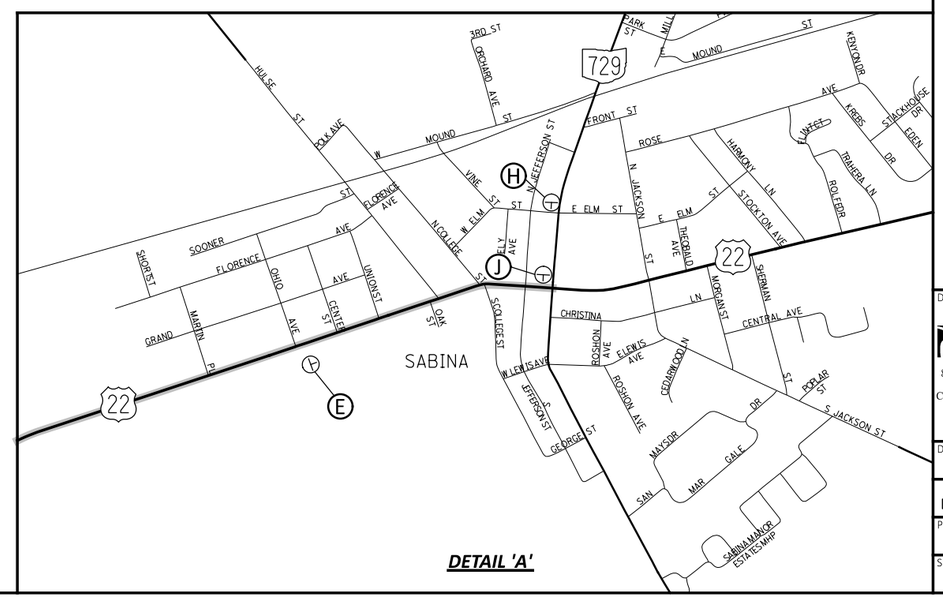

Ⓐ DETOUR SOUTH 729 — M4-8-24 M3-3-24 M1-5-24-3 — TOP MOUNT TO GUIDE SIGN	Ⓑ DETOUR NORTH 729 — M4-8-24 M3-1-24 M1-5-24-3 — TOP MOUNT TO GUIDE SIGN	Ⓒ DETOUR SOUTH 729 ↗ — M4-8-24 M3-3-24 M1-5-24-3 M6-2-21	Ⓓ DETOUR NORTH 729 ↗ — M4-8-24 M3-1-24 M1-5-24-3 M6-2-21
Ⓔ DETOUR SOUTH 729 ↑ — M4-8-24 M3-3-24 M1-5-24-3 M6-3-21	Ⓕ DETOUR NORTH 729 ↑ — M4-8-24 M3-1-24 M1-5-24-3 M6-3-21	Ⓖ DETOUR SOUTH 729 ↰ — M4-8-24 M3-3-24 M1-5-24-3 M5-1-21	Ⓗ DETOUR NORTH 729 ↱ — M4-8-24 M3-1-24 M1-5-24-3 M5-1-21
Ⓘ DETOUR SOUTH 729 ← — M4-8-24 M3-3-24 M1-5-24-3 M6-1-21	Ⓙ DETOUR NORTH 729 → — M4-8-24 M3-1-24 M1-5-24-3 M6-1-21	Ⓚ ROAD CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY — R11-3a-48 TYPE 3 BARRICADE	Ⓛ ROAD CLOSED — R11-2-48 TYPE 3 BARRICADE

DETOUR PLAN _SR 729 SOUTH APPROACH TO ROUNDABOUT

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 71 TOTAL 246

FAY-435-1.52

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CROSS SECTIONS - PAVEMENT FOR M.O.T.
SR 435 STA. 93+50 TO STA. 94+50

FAY-435-1.52

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DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

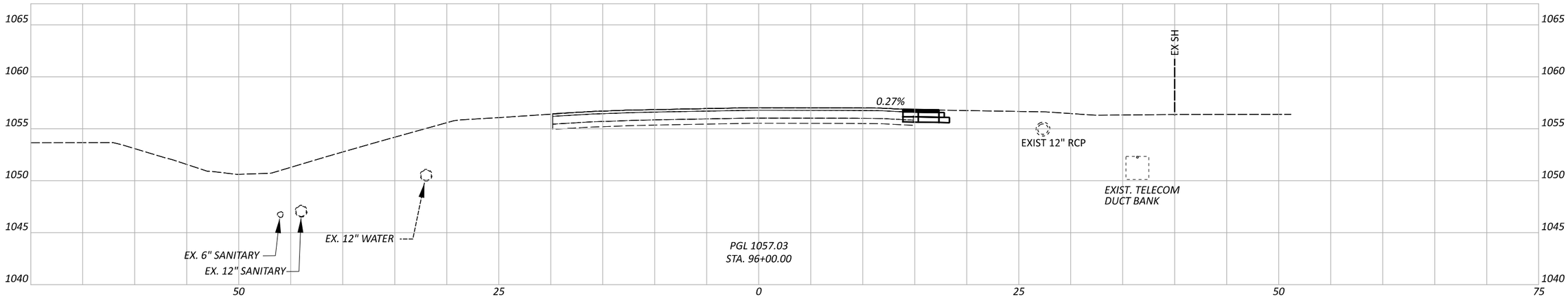
DESIGNER
DPF

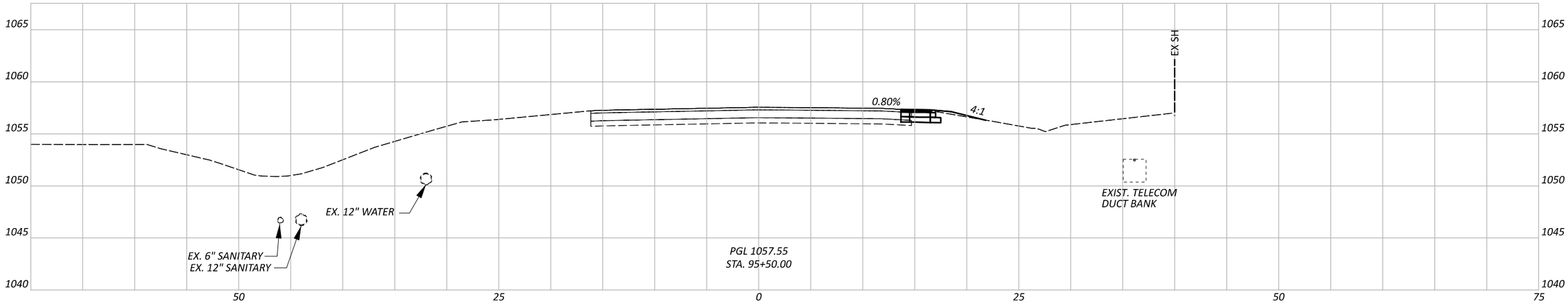
REVIEWER
DCJ 05/10/24

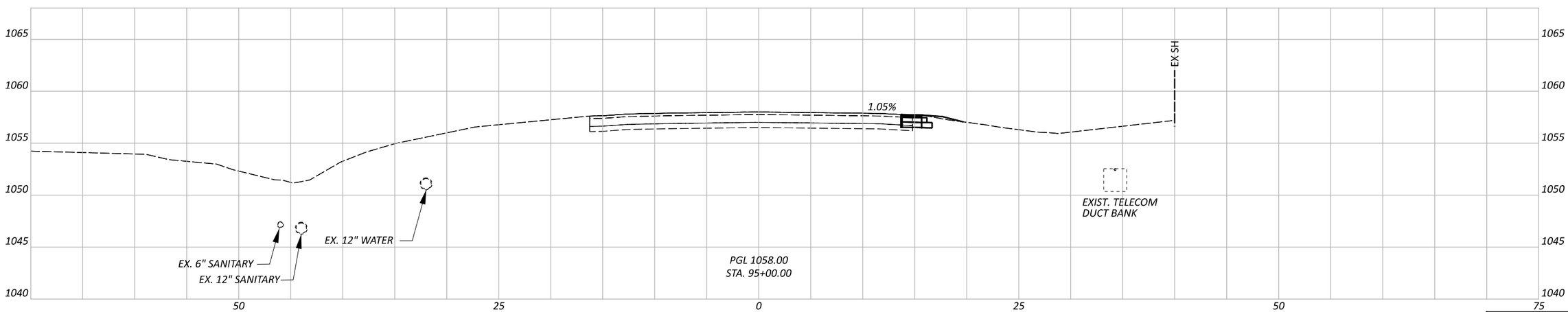
PROJECT ID
117955

Sheet Totals		
Seeding	Cut	Fill

SHEET P. 72 | TOTAL 246







CROSS SECTIONS - PAVEMENT FOR M.O.T.
SR 435 STA. 95+00 TO STA. 96+00

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER
DPF

REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 73 TOTAL 246

FAY-435-1.52

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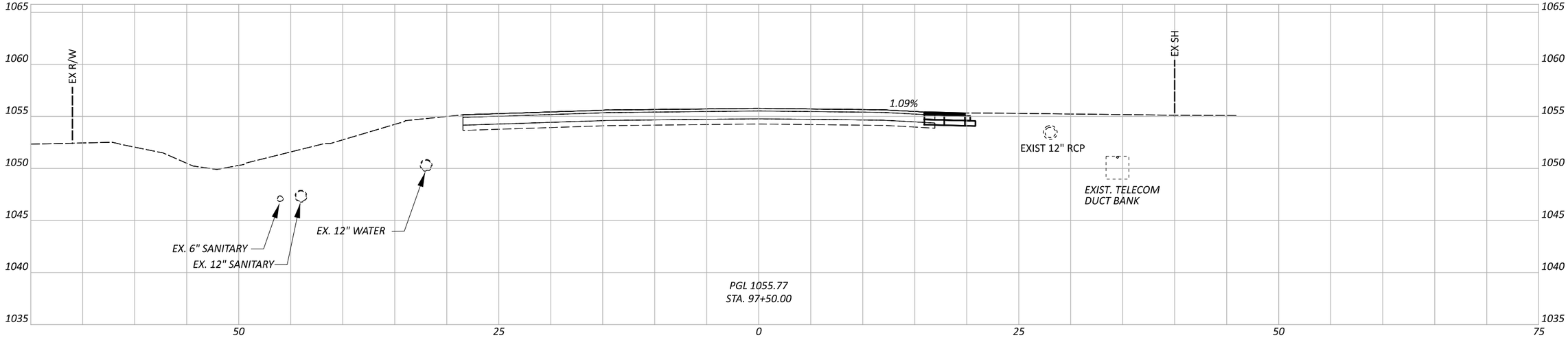

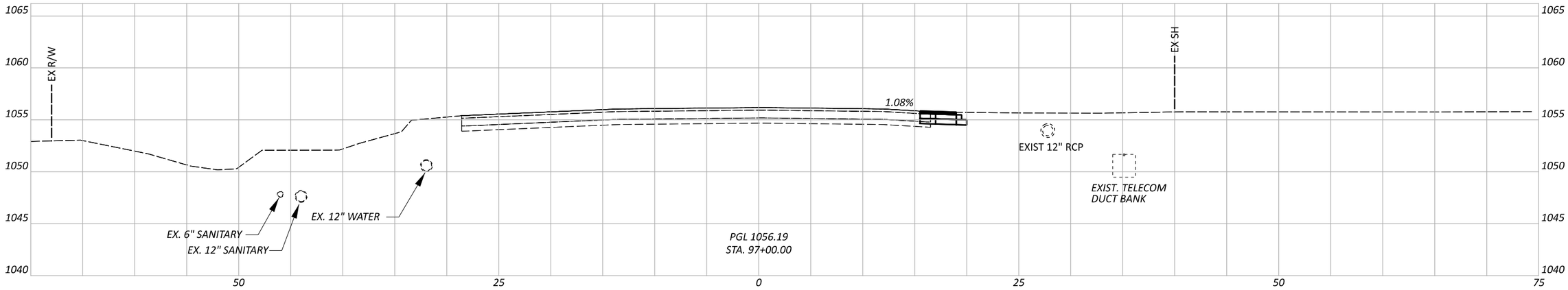

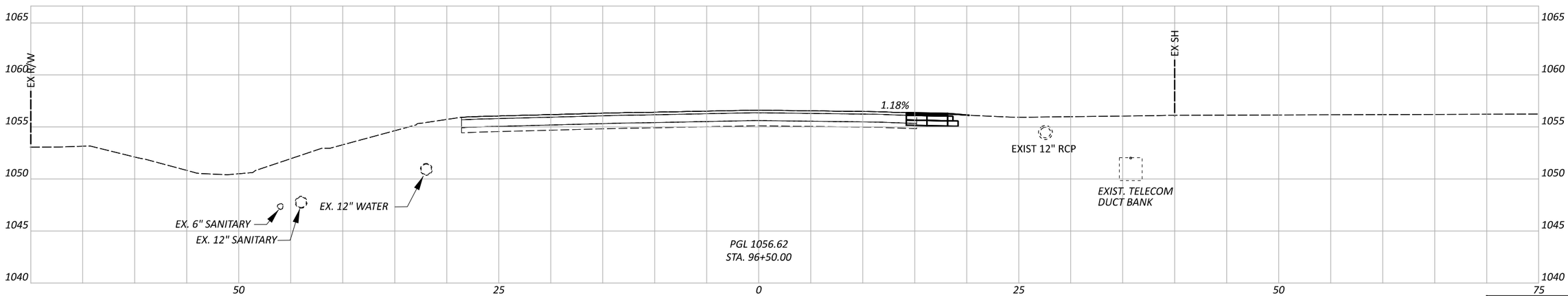

CROSS SECTIONS - PAVEMENT FOR M.O.T.
SR 435 STA. 96+50 TO STA. 97+50

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY

Palmer ENGINEERING

8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER	DPF
REVIEWER	DCJ 05/10/24
PROJECT ID	117955
SHEET	P. 74
TOTAL	246

FAY-435-1.52

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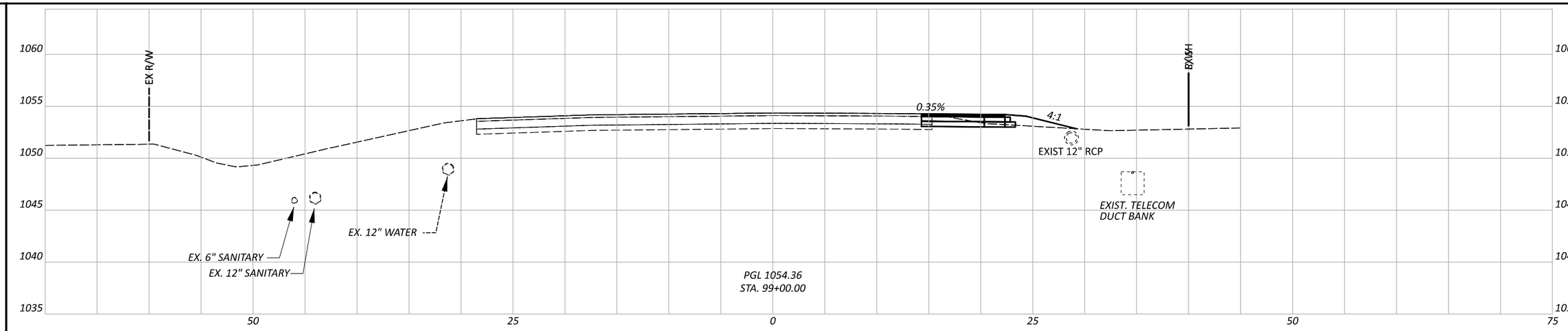

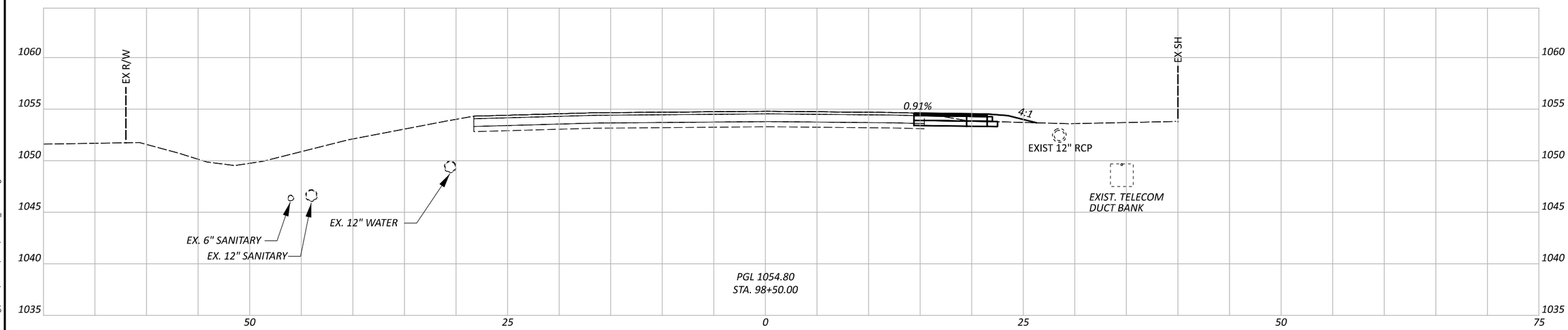

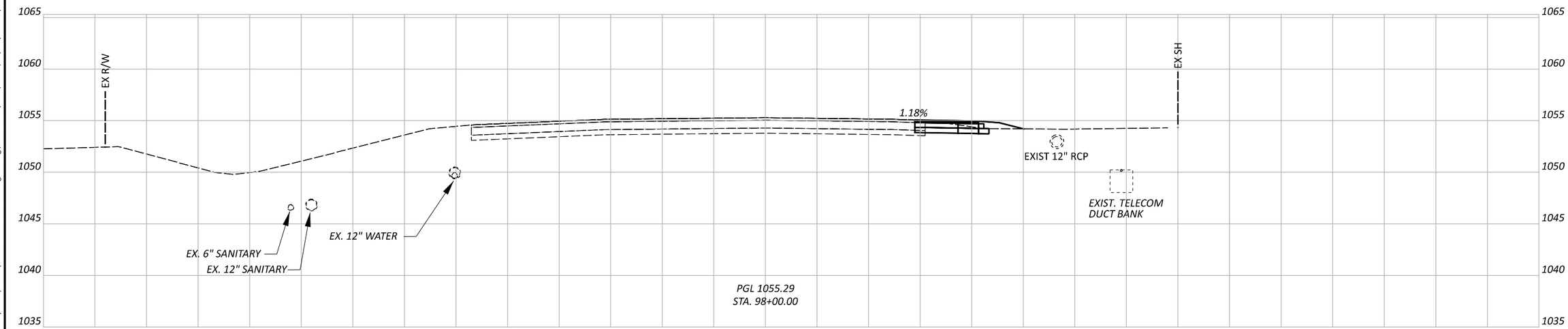

CROSS SECTIONS - PAVEMENT FOR M.O.T.
SR 435 STA. 98+00 TO STA. 99+00

DESIGN AGENCY	
Palmer ENGINEERING	8350 E. KEMPER RD. SUITE B CINCINNATI,OH 45249 513-469-1600
DESIGNER	DPF
REVIEWER	DCJ 05/10/24
PROJECT ID	117955
SHEET	P. 75
TOTAL	246

Sheet Totals		
Seeding	Cut	Fill

FAY-435-1.52

MODEL: CLX_RW_SR-435-E - 98+00.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:32:02 PM USER: dan-f
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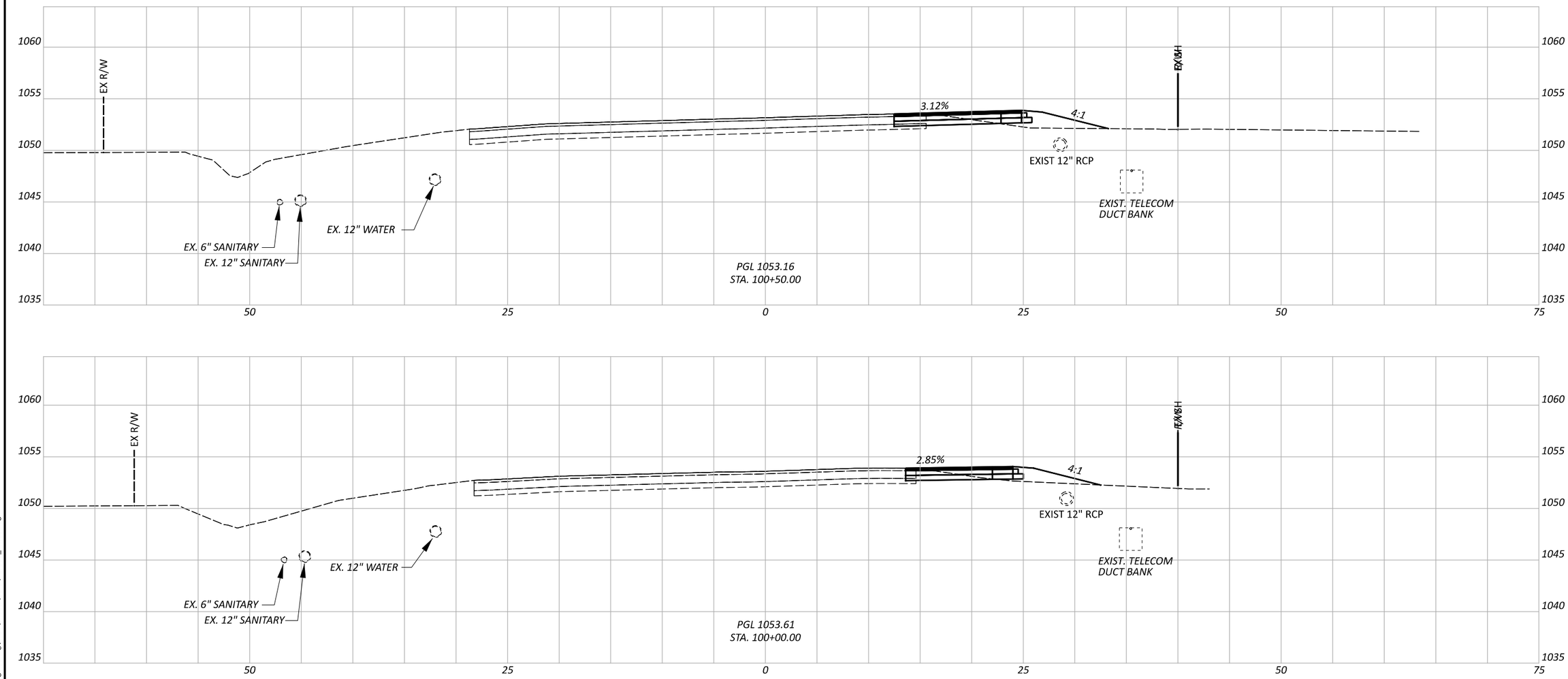

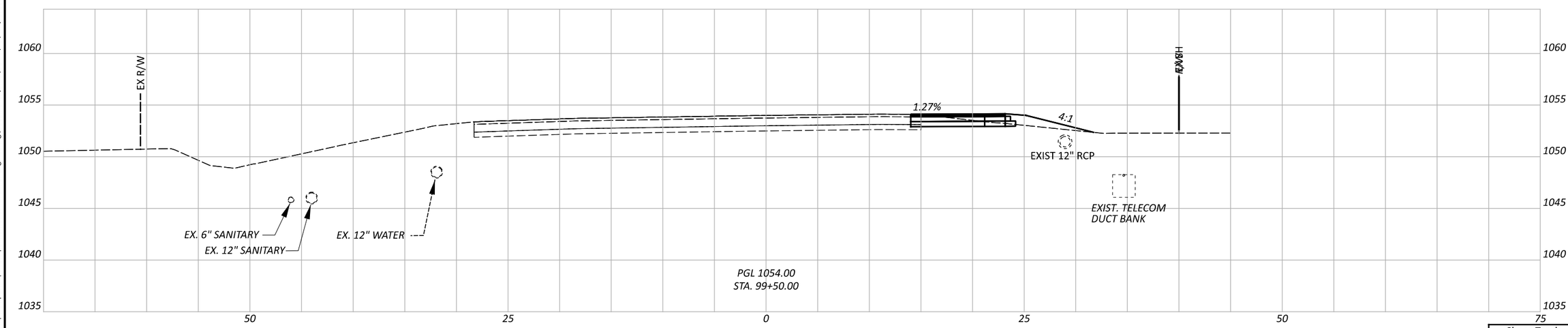

CROSS SECTIONS - PAVEMENT FOR M.O.T.
SR 435 STA. 99+50 TO STA. 100+50

FAY-435-1.52

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Sheet Totals		
Seeding	Cut	Fill

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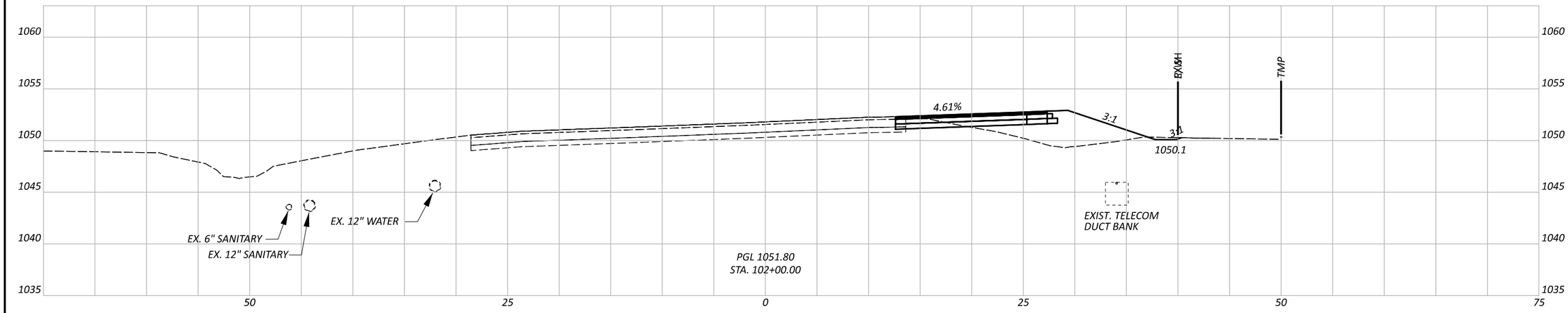
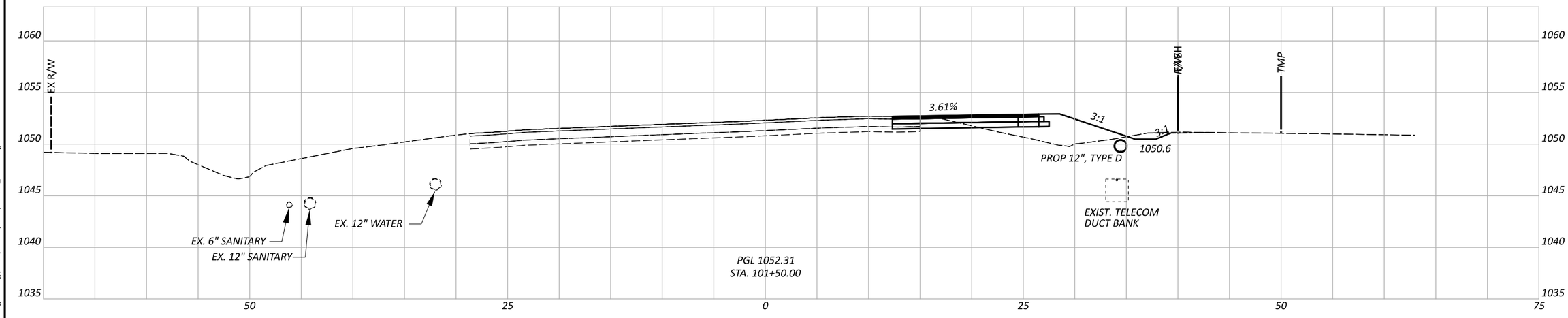
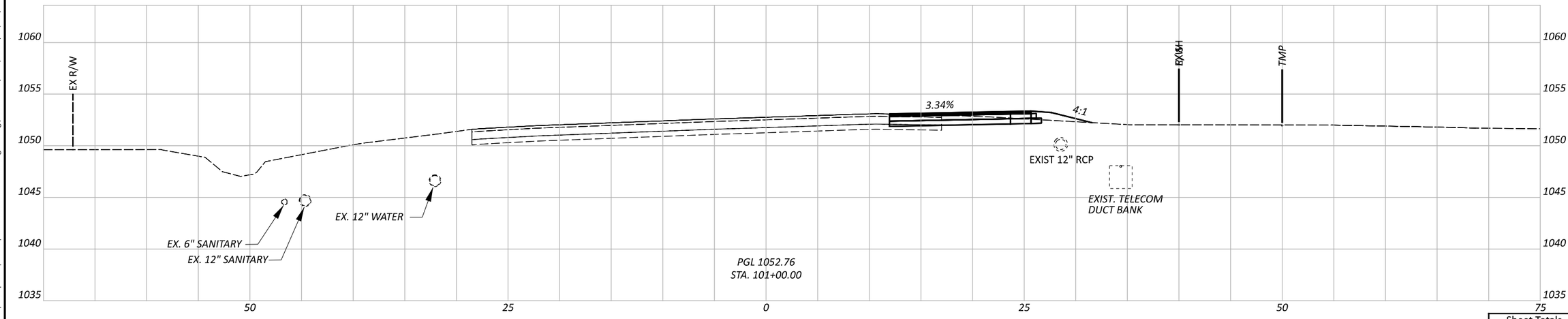
PROJECT ID
117955

SHEET P. 76 TOTAL 246







CROSS SECTIONS - PAVEMENT FOR M.O.T.
SR 435 STA. 101+00 TO STA. 102+00

FAY-435-1.52

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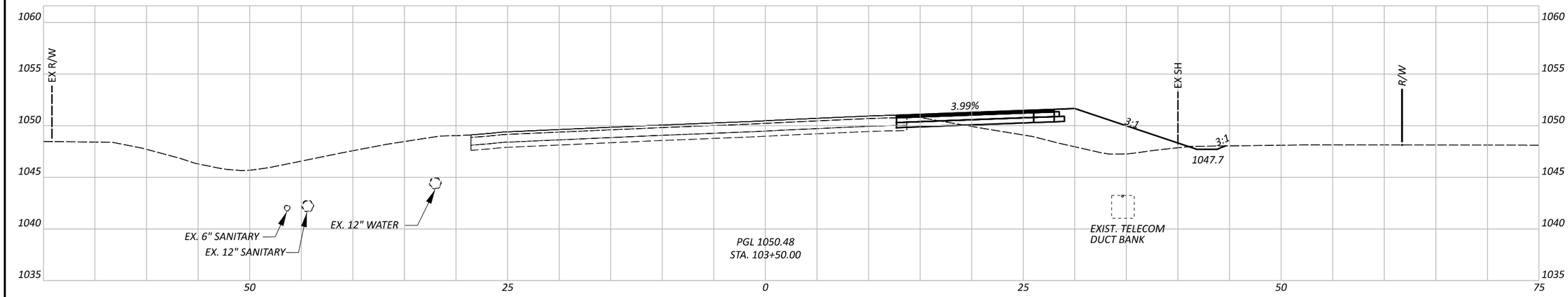
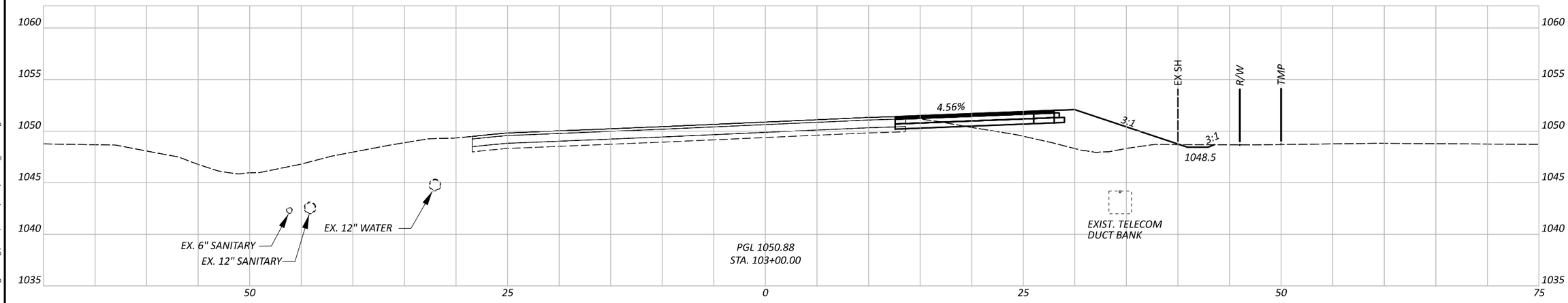
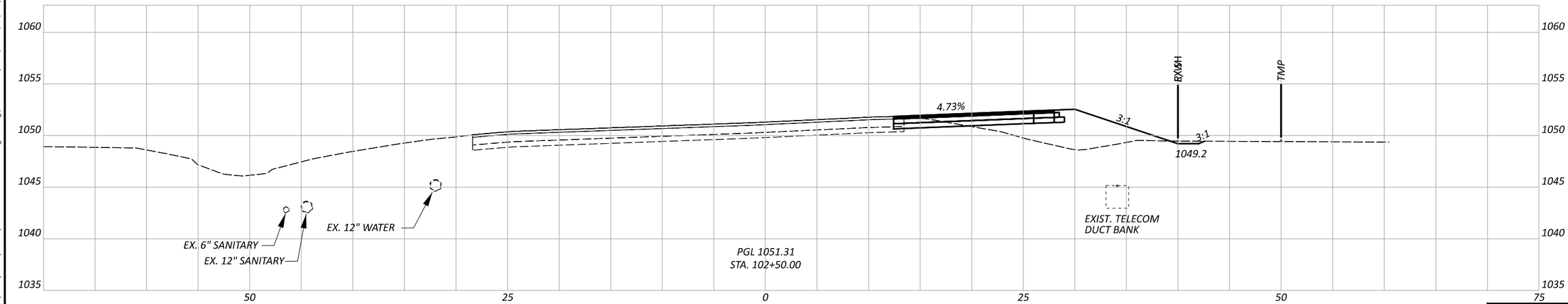
117955

Sheet Totals		
Seeding	Cut	Fill

SHEET P. 77 TOTAL 246







CROSS SECTIONS - PAVEMENT FOR M.O.T.
SR 435 STA. 102+50 TO STA. 103+50

Sheet Totals		
Seeding	Cut	Fill

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PROJECT ID
117955

SHEET P. 78 | TOTAL 246

FAY-435-1.52

MODEL: CLX_RW_SR-435-E - 102+50.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:32:08 PM USER: dan-f
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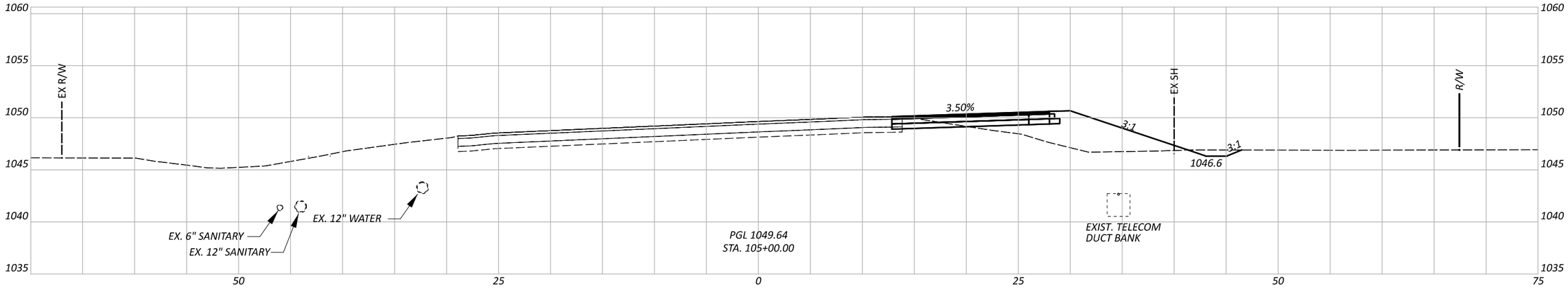

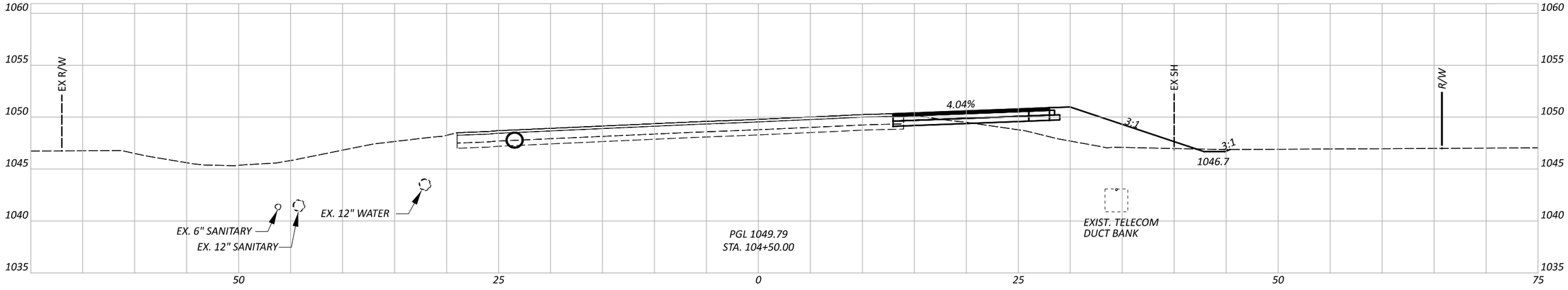

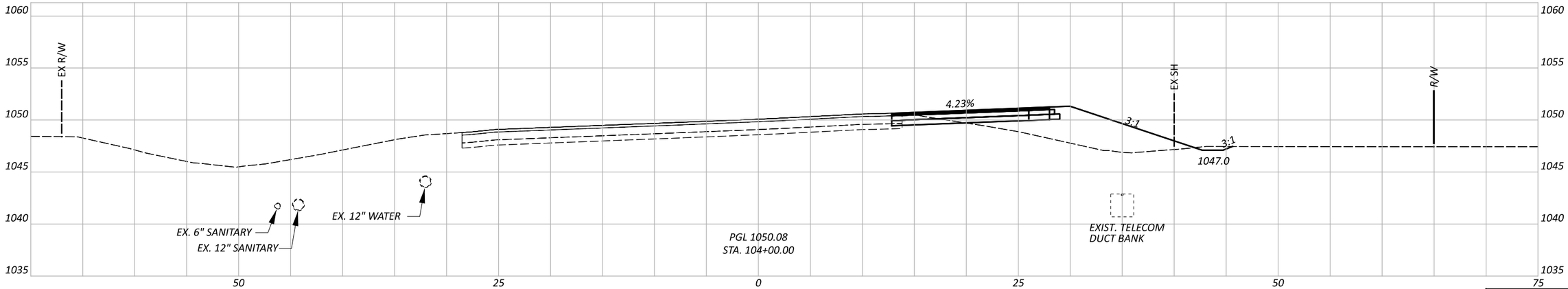

CROSS SECTIONS - PAVEMENT FOR M.O.T.
SR 435 STA. 104+00 TO STA. 105+00

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER: DPF

REVIEWER: DCJ 05/10/24

PROJECT ID: 117955

SHEET: P. 79 TOTAL: 246

FAY-435-1.52

MODEL: CLX_RW_SR-435-E - 104+00.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:32:10 PM USER: dan-f
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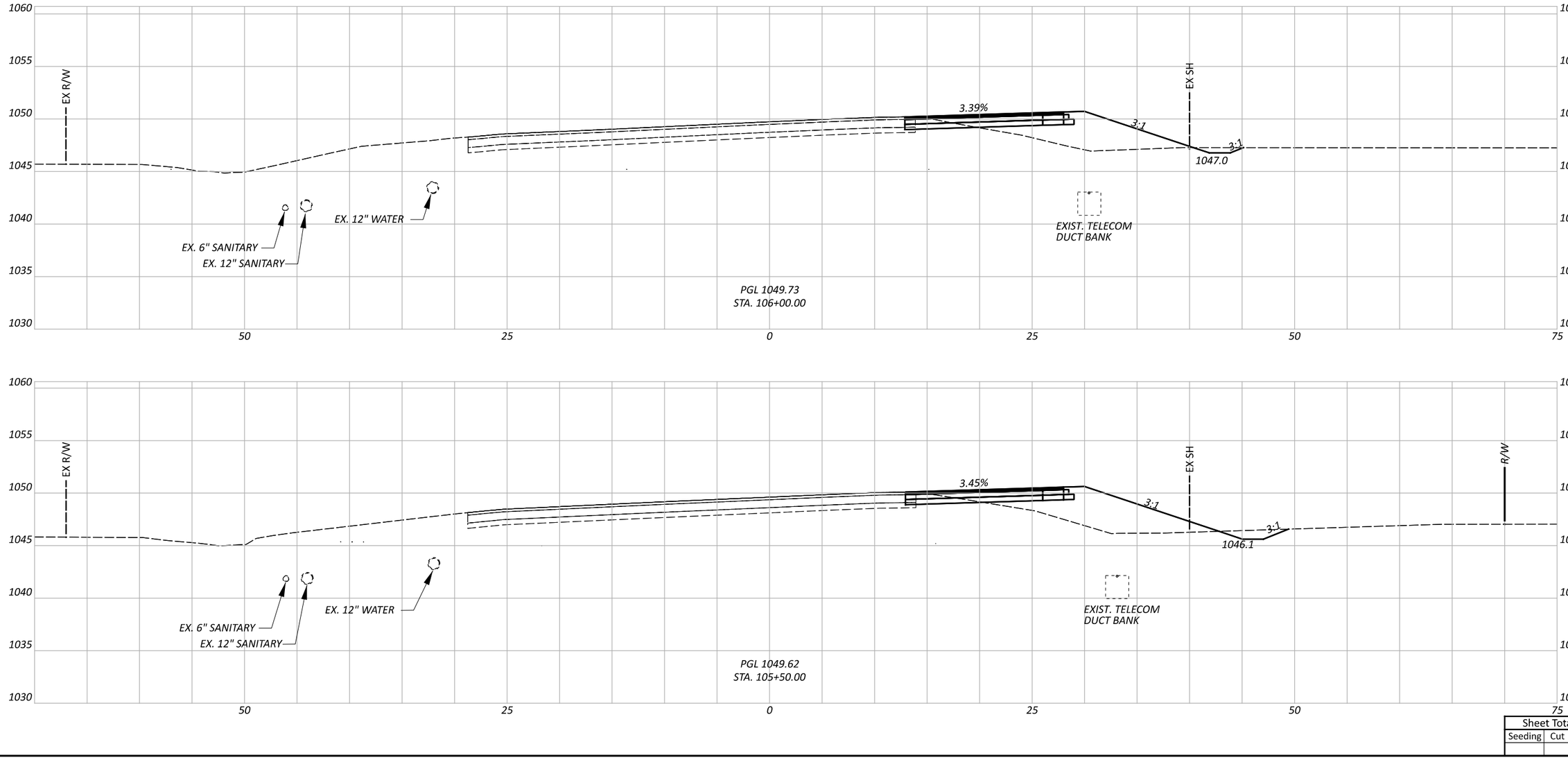

CROSS SECTIONS - PAVEMENT FOR M.O.T.
SR 435 STA. 105+50 TO STA. 106+00

Sheet Totals		
Seeding	Cut	Fill

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DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 80 | TOTAL: 246

FAY-435-1.52

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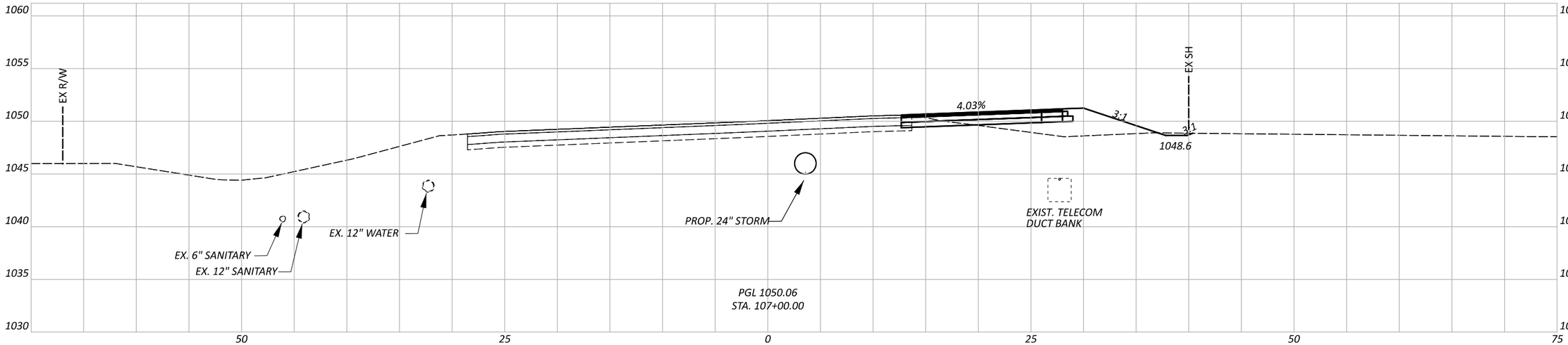

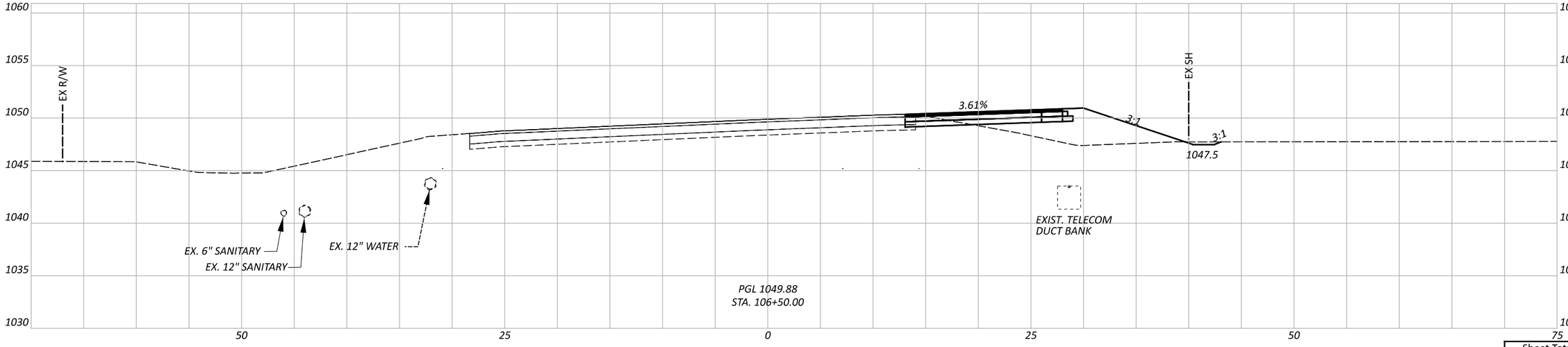

CROSS SECTIONS - PAVEMENT FOR M.O.T.
SR 435 STA. 106+50 TO STA. 107+00

FAY-435-1.52

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Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
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PROJECT ID
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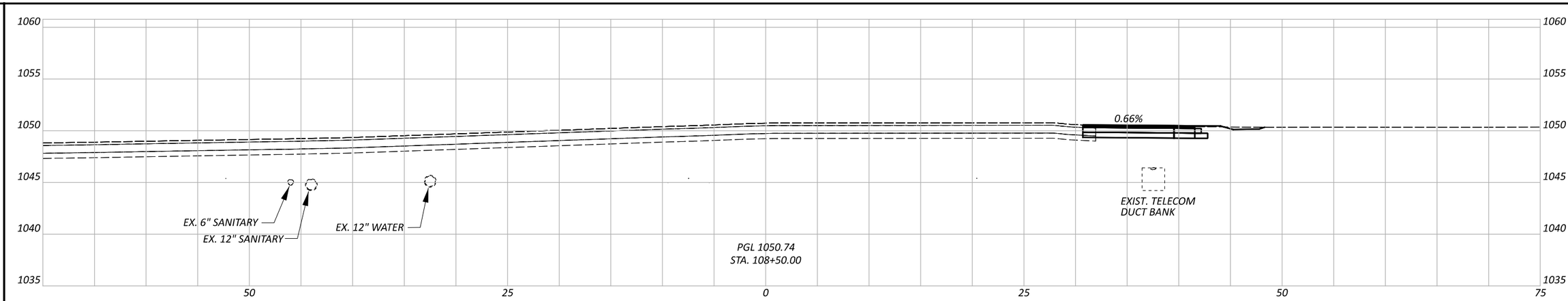
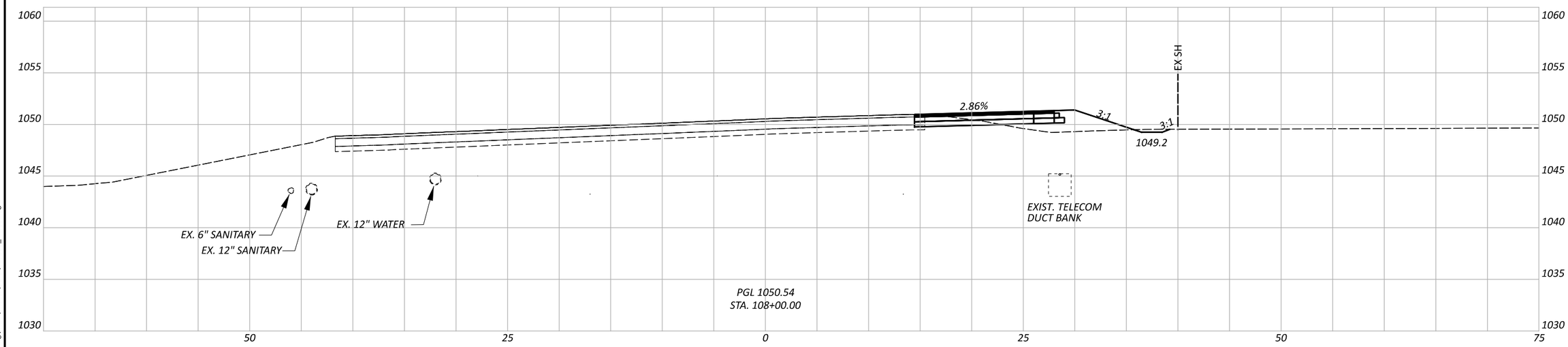
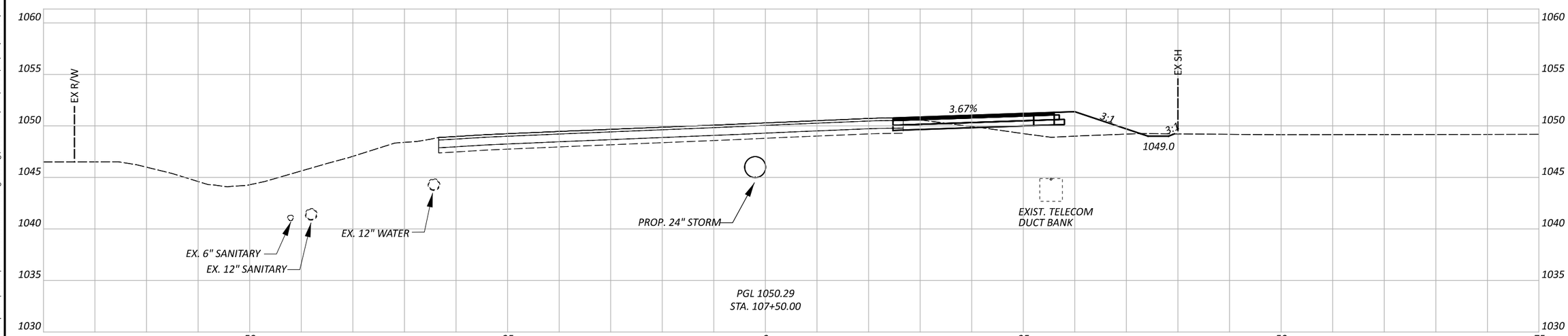
SHEET P. 81 | TOTAL 246







CROSS SECTIONS - PAVEMENT FOR M.O.T.
SR 435 STA. 107+50 TO STA. 108+50

FAY-435-1.52

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Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
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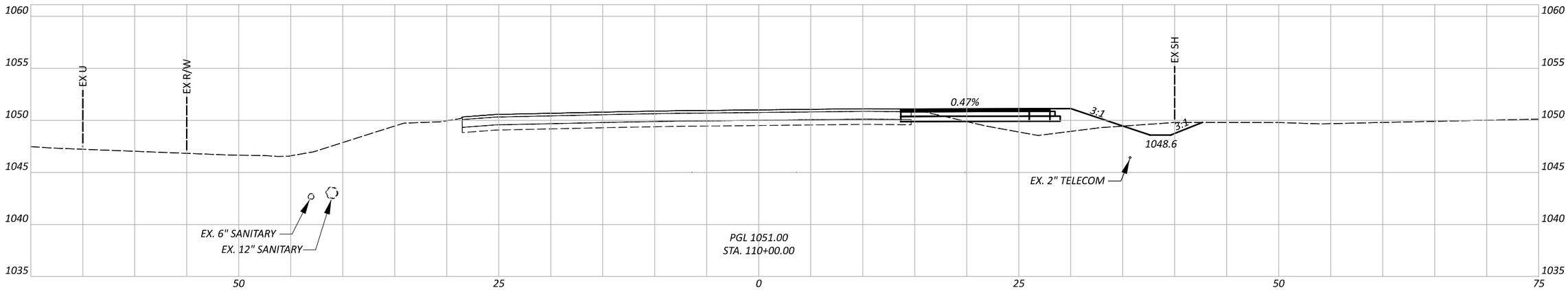
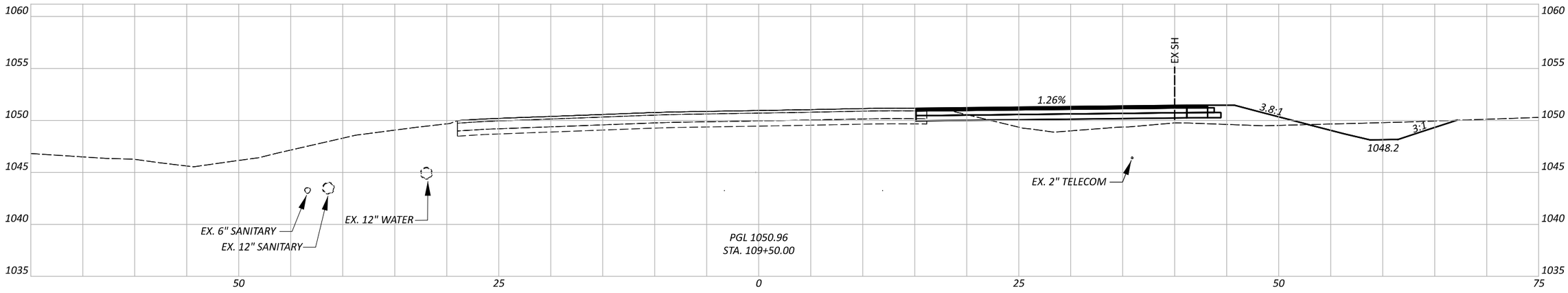
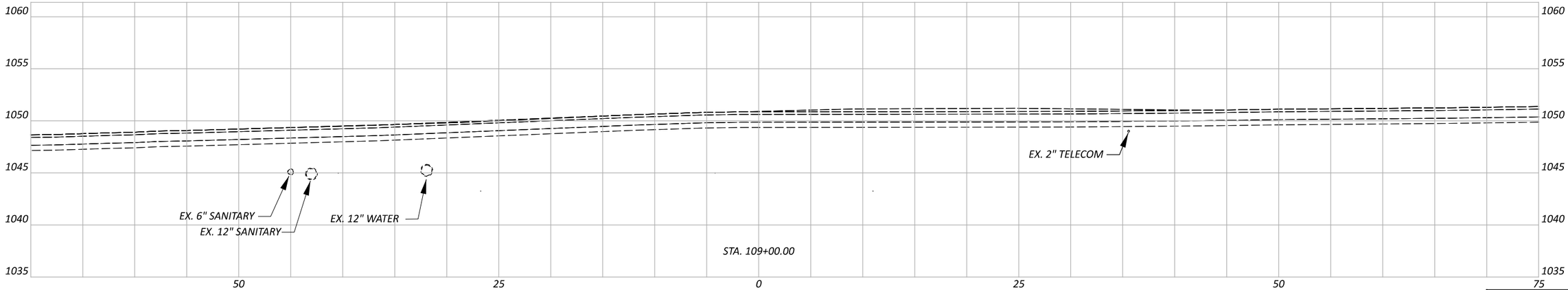
117955

SHEET P. 82 TOTAL 246







CROSS SECTIONS - PAVEMENT FOR M.O.T.
SR 435 STA. 109+00 TO STA. 110+00

Sheet Totals		
Seeding	Cut	Fill

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SHEET P. 83 | TOTAL 246

FAY-435-1.52

MODEL: CLX_RW_SR-435-E - 109+00.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:32:16 PM USER: dan-f
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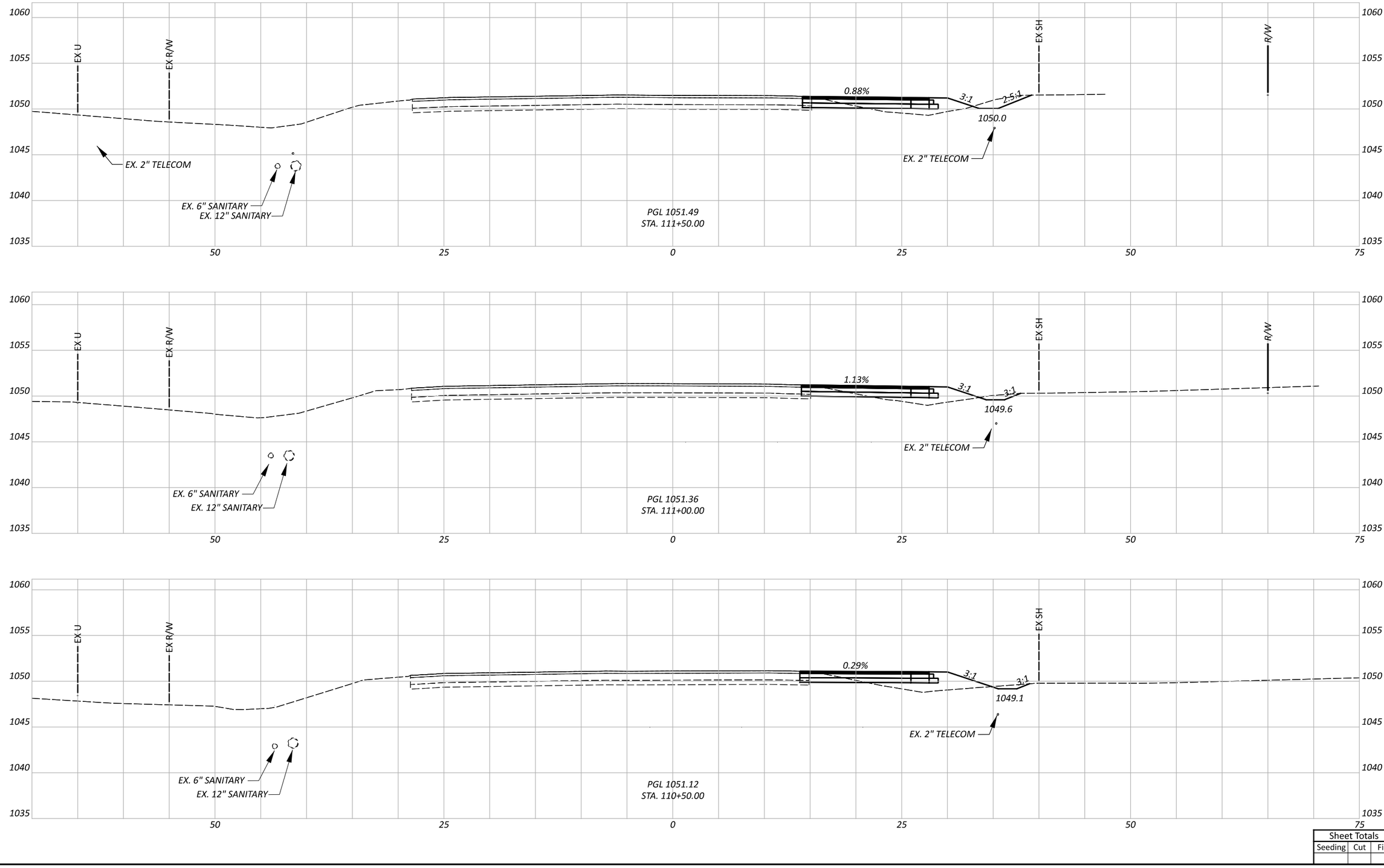

FAY-435-1.52

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CROSS SECTIONS - PAVEMENT FOR M.O.T.
SR 435 STA. 110+50 TO STA. 111+50

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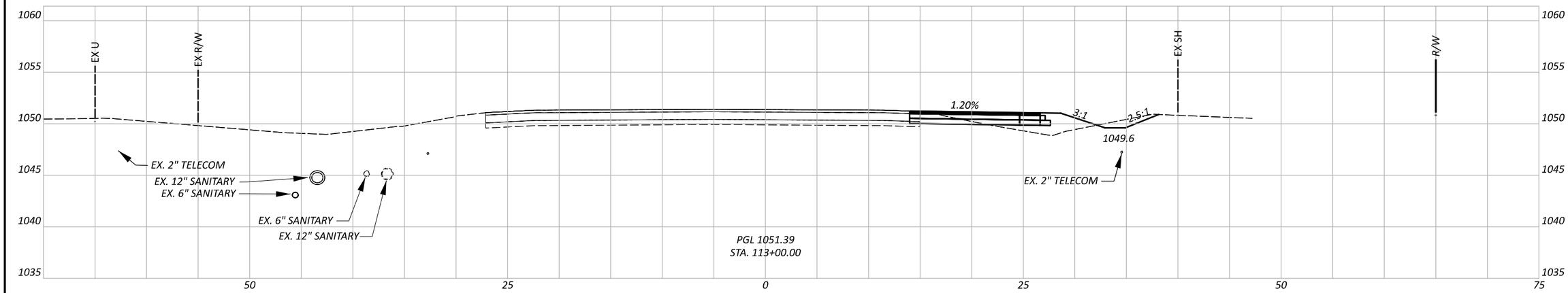
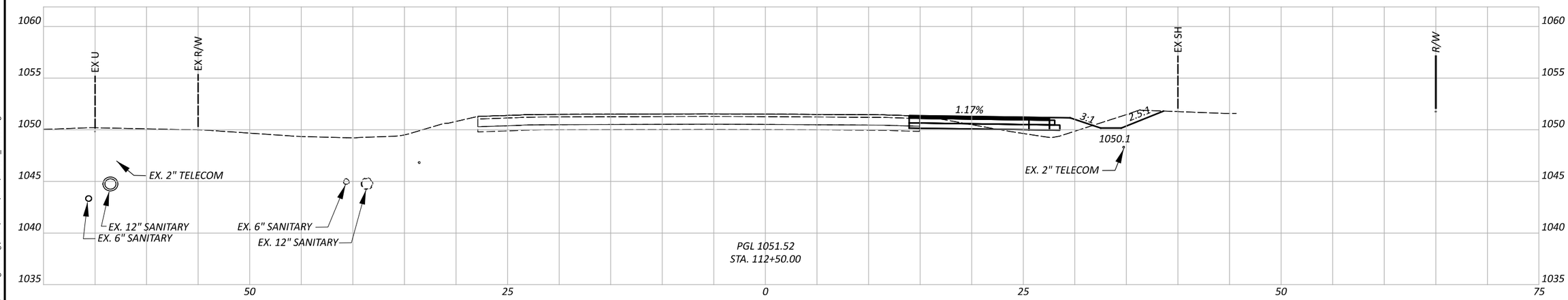
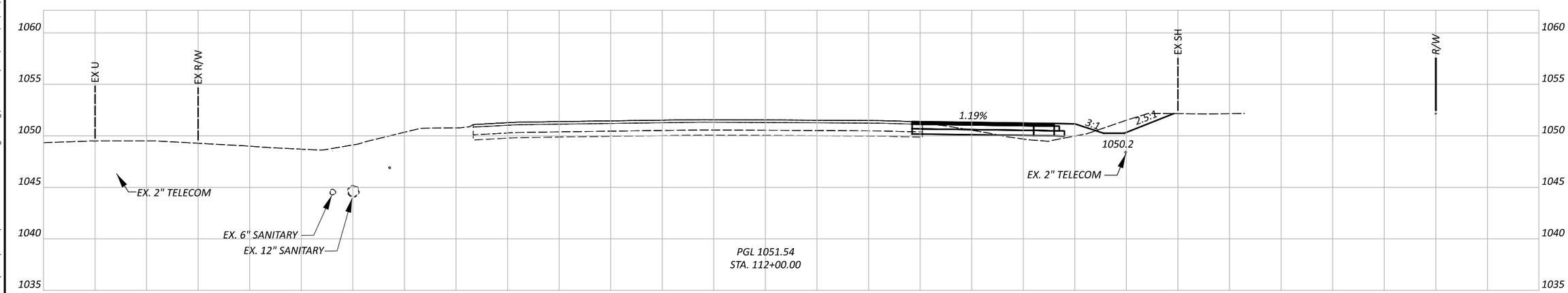
PROJECT ID
117955

Sheet Totals		
Seeding	Cut	Fill

SHEET	TOTAL
P. 84	246







CROSS SECTIONS - PAVEMENT FOR M.O.T.
SR 435 STA. 112+00 TO STA. 113+00

FAY-435-1.52

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Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
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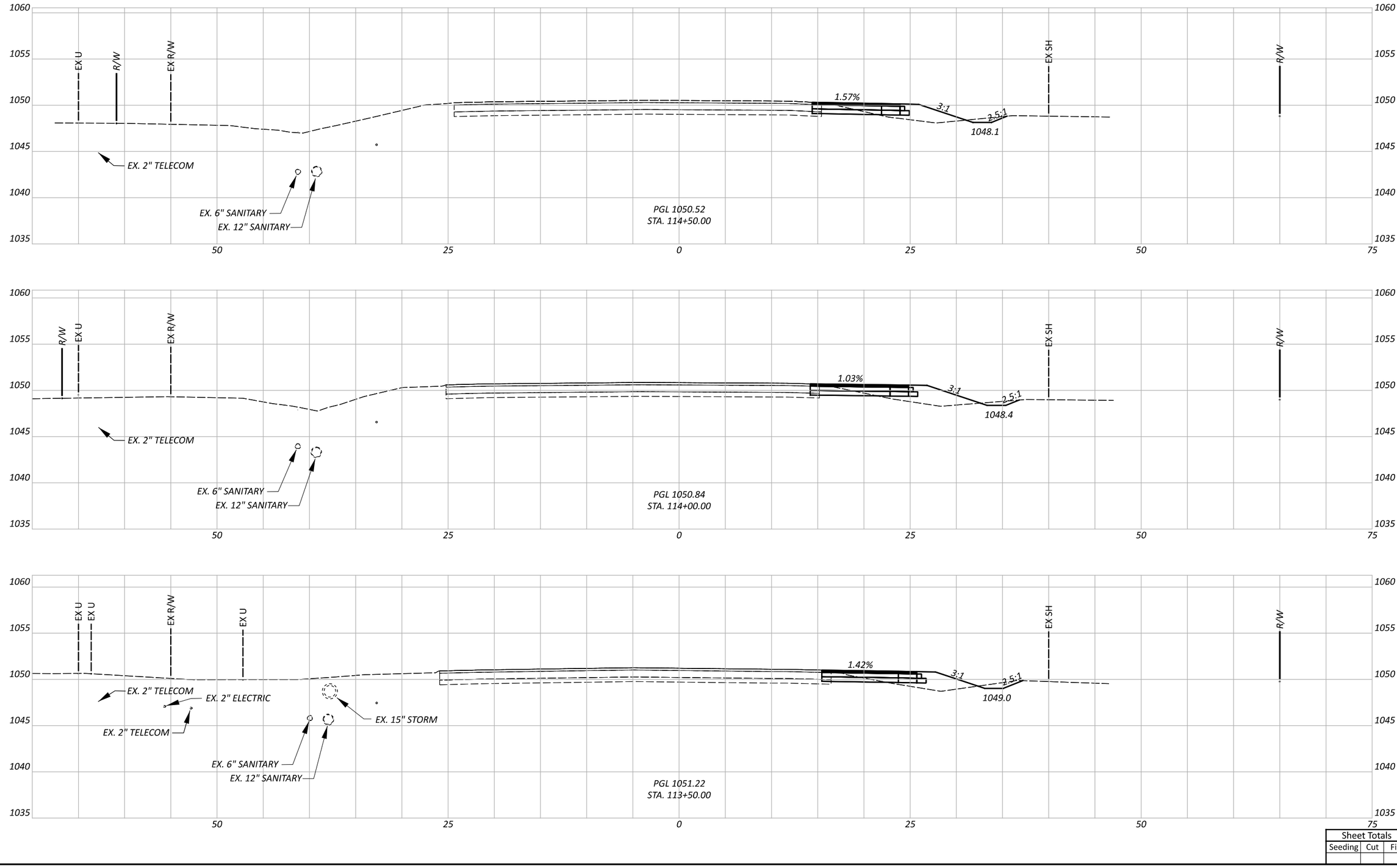
117955

SHEET	TOTAL
P. 85	246



CROSS SECTIONS - PAVEMENT FOR M.O.T.
SR 435 STA. 113+50 TO STA. 114+50

FAY-435-1.52

MODEL: CLX_RW_SR-435-E - 113+50.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:32:21 PM USER: dan-f
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Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
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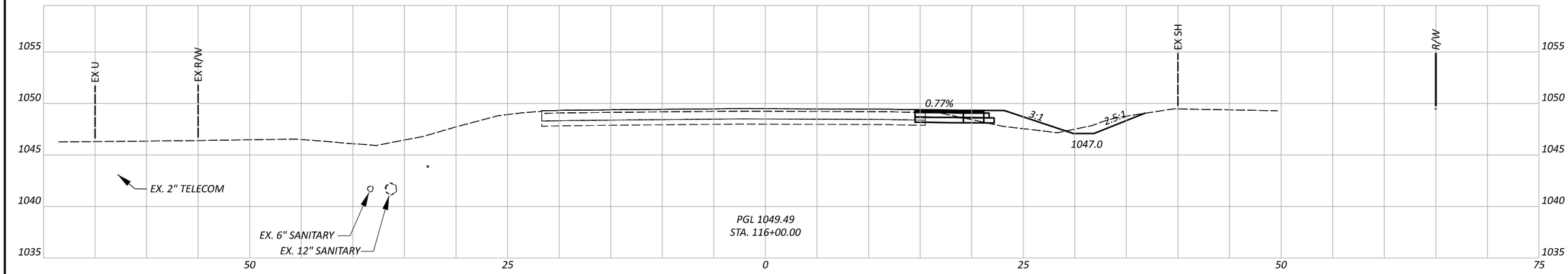
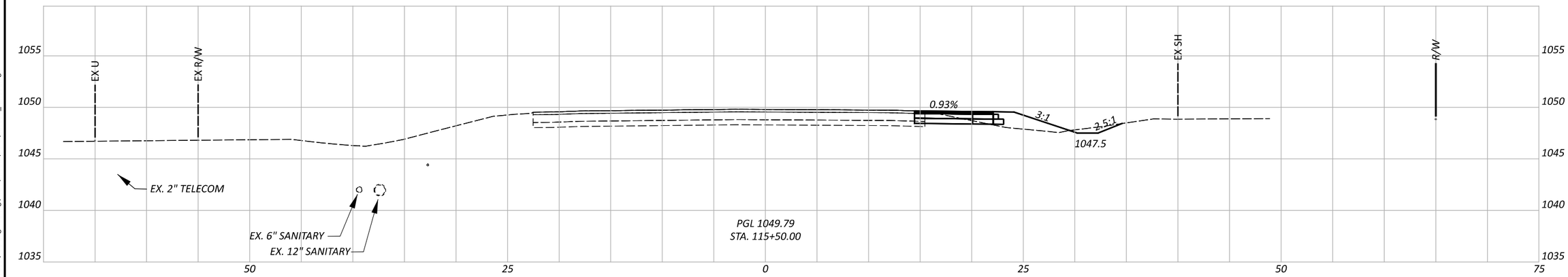
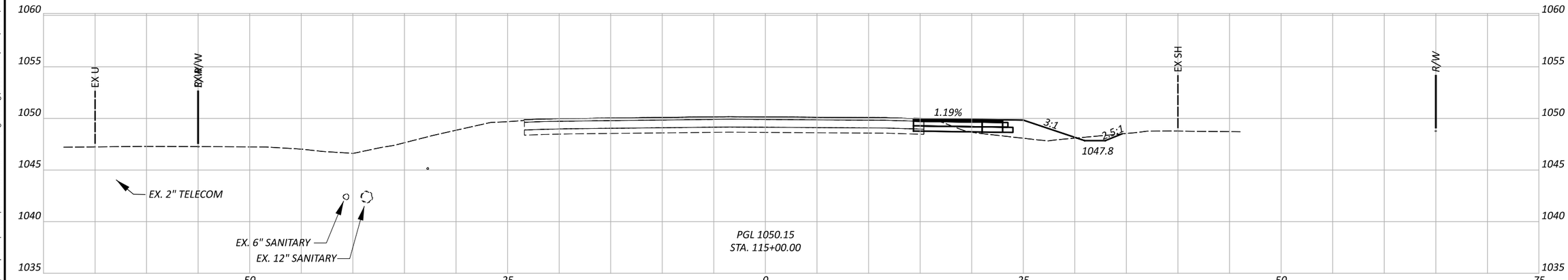
PROJECT ID
117955

SHEET P. 86 | TOTAL 246







CROSS SECTIONS - PAVEMENT FOR M.O.T.
SR 435 STA. 115+00 TO STA. 116+00

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
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117955

SHEET P. 87 | TOTAL 246

FAY-435-1.52

MODEL: CIX_RW_SR-435-E - 115+00.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:32:22 PM USER: dan-f
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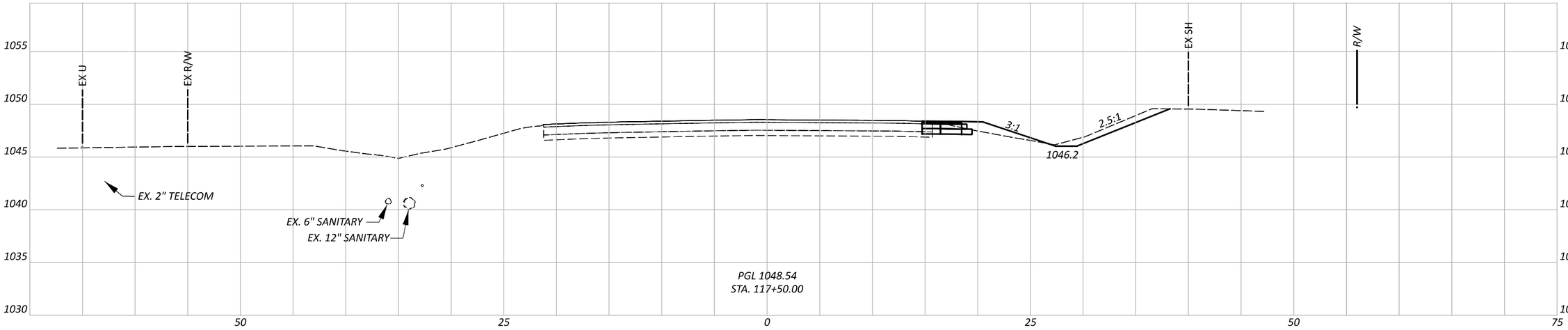

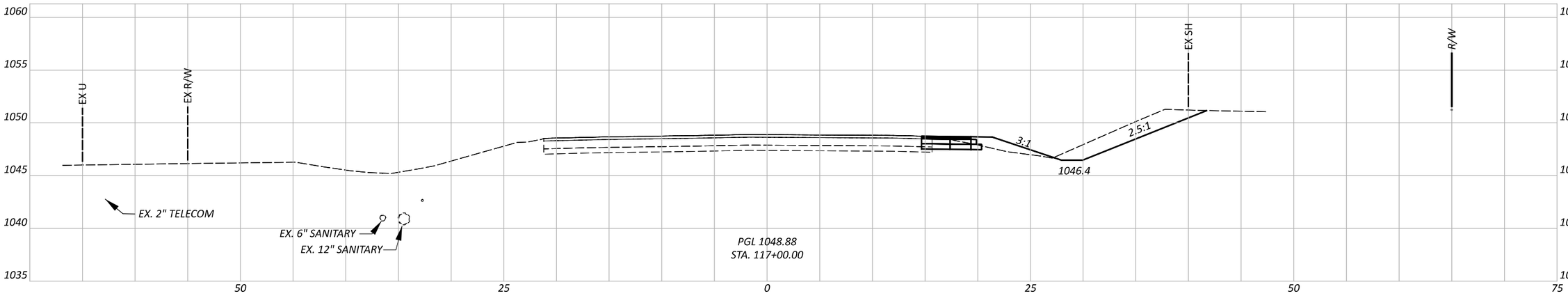

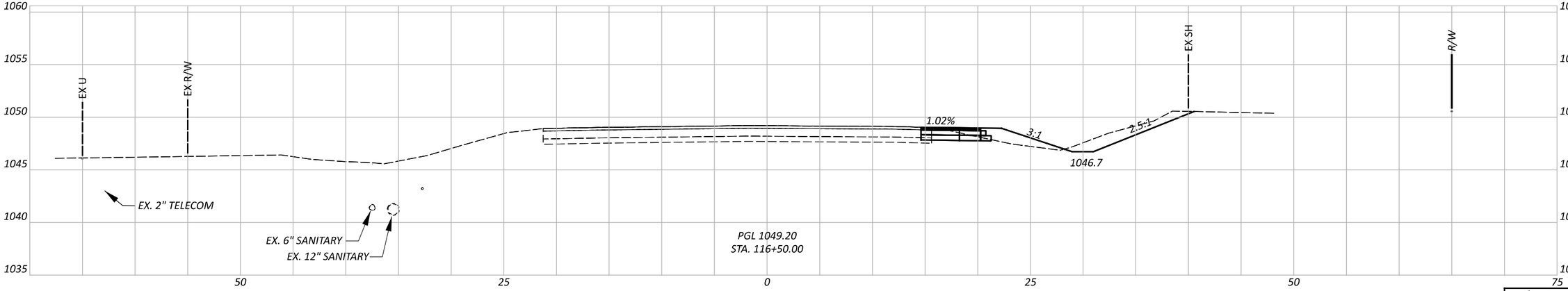

CROSS SECTIONS - PAVEMENT FOR M.O.T.
SR 435 STA. 116+50 TO STA. 117+50

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 88 TOTAL: 246

FAY-435-1.52

MODEL: CLX_RW_SR-435-E - 116+50.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:32:24 PM USER: dan-f
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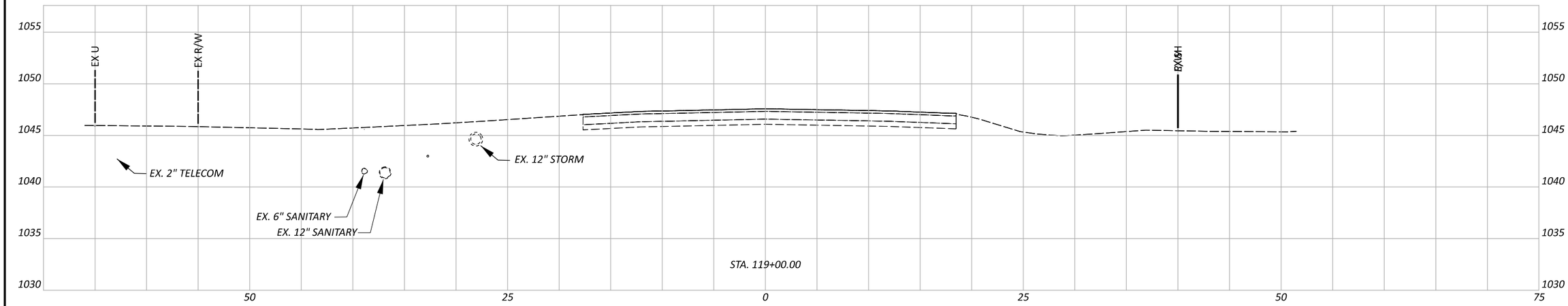

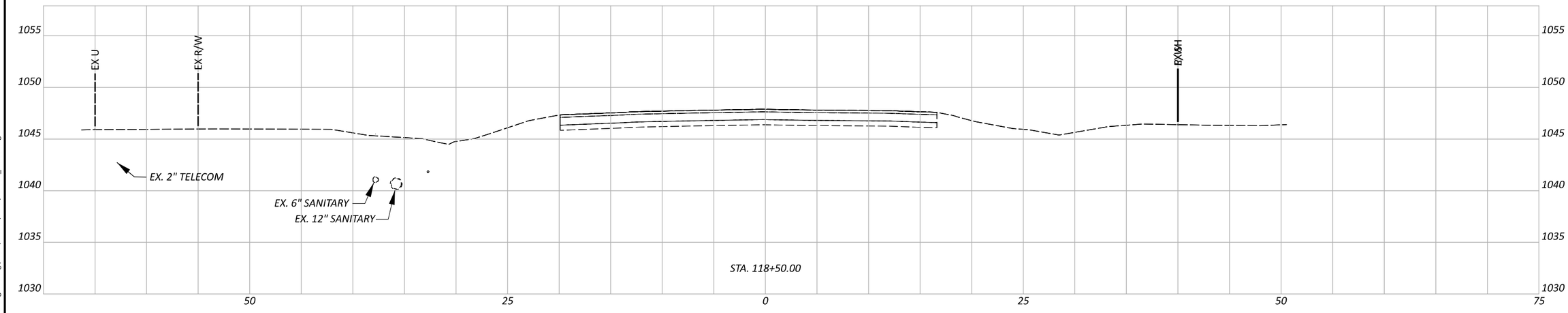

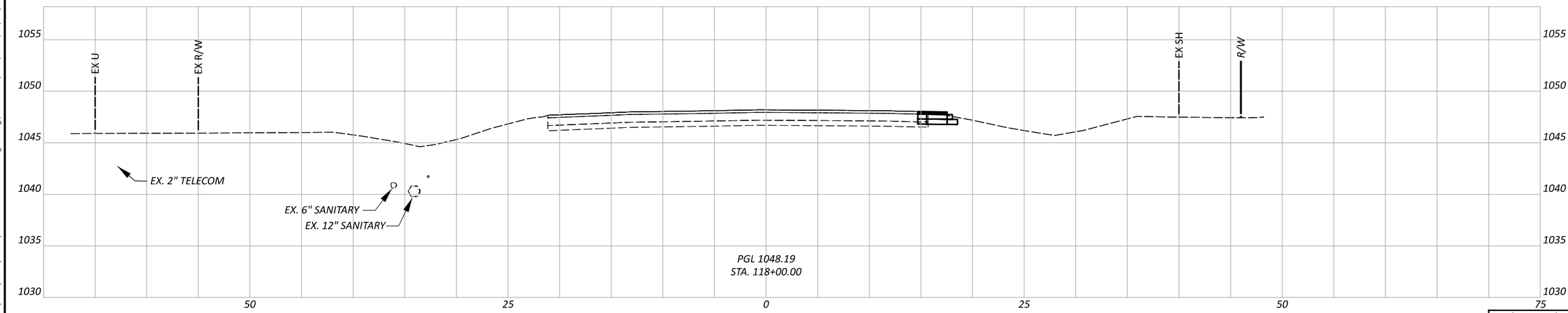

CROSS SECTIONS - PAVEMENT FOR M.O.T.
SR 435 STA. 118+00 TO STA. 119+00

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER
DPF

REVIEWER
DCJ 05/10/24

PROJECT ID
117955

Sheet Totals		
Seeding	Cut	Fill

SHEET	TOTAL
P. 89	246

FAY-435-1.52

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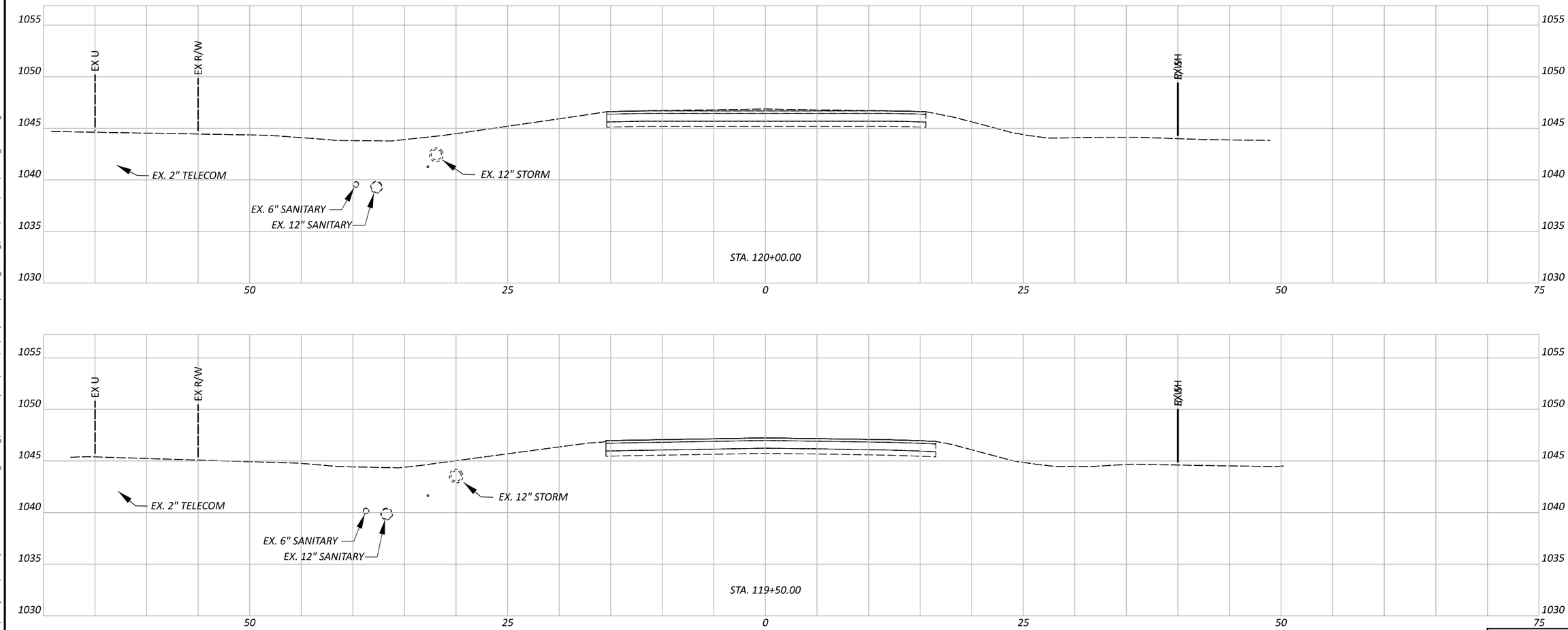

CROSS SECTIONS - PAVEMENT FOR M.O.T.
SR 435 STA. 119+50 TO STA. 120+00

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
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513-469-1600

DESIGNER
DPF

REVIEWER
DCJ 05/10/24

PROJECT ID
117955

Sheet Totals		
Seeding	Cut	Fill

SHEET P. 90 TOTAL 246

FAY-435-1.52

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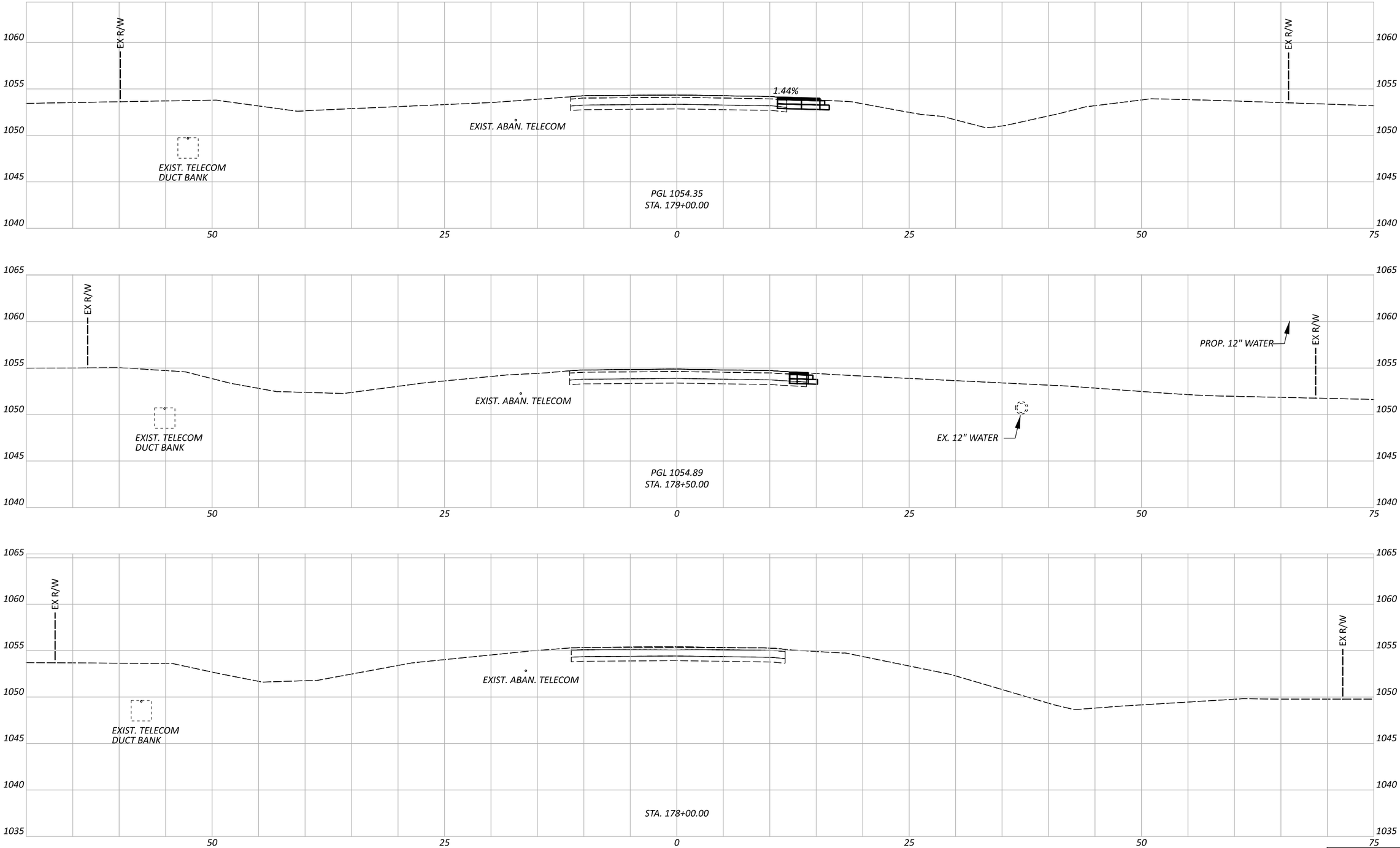

CROSS SECTIONS - PAVEMENT FOR M.O.T.
SR 435 STA. 178+00 TO STA. 179+00

FAY-435-1.52

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Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY

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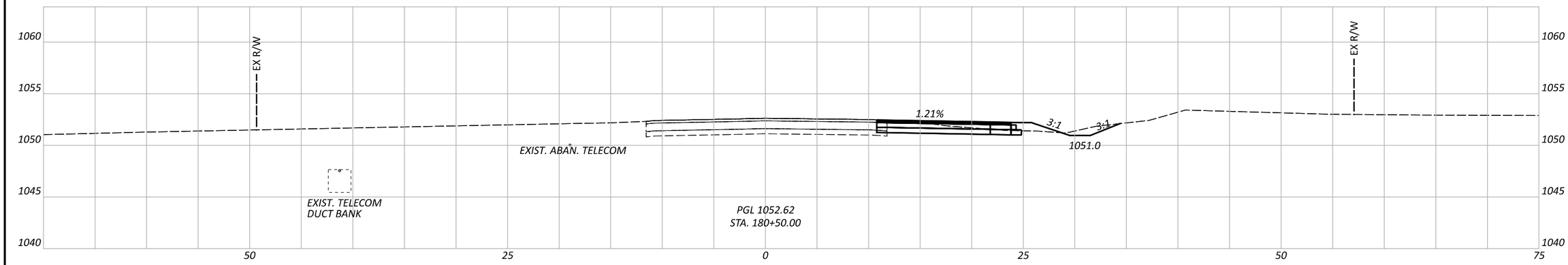
513-469-1600

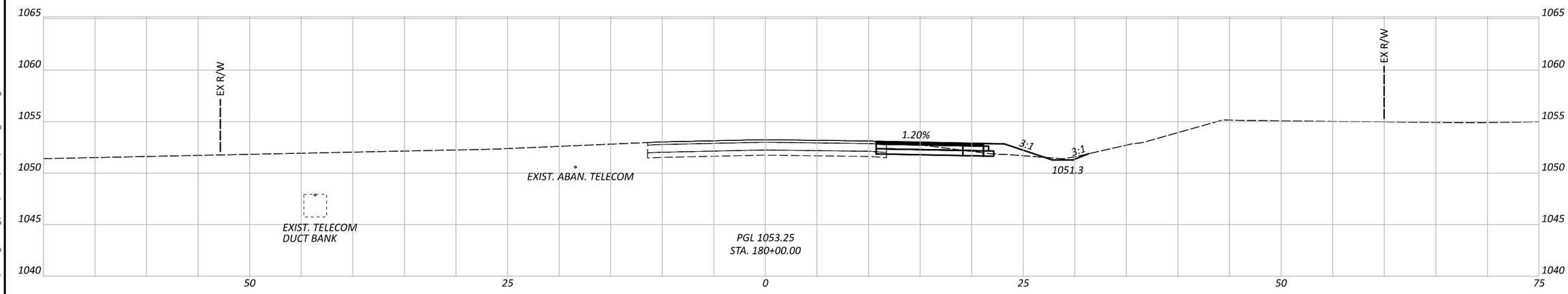
DESIGNER
DPF

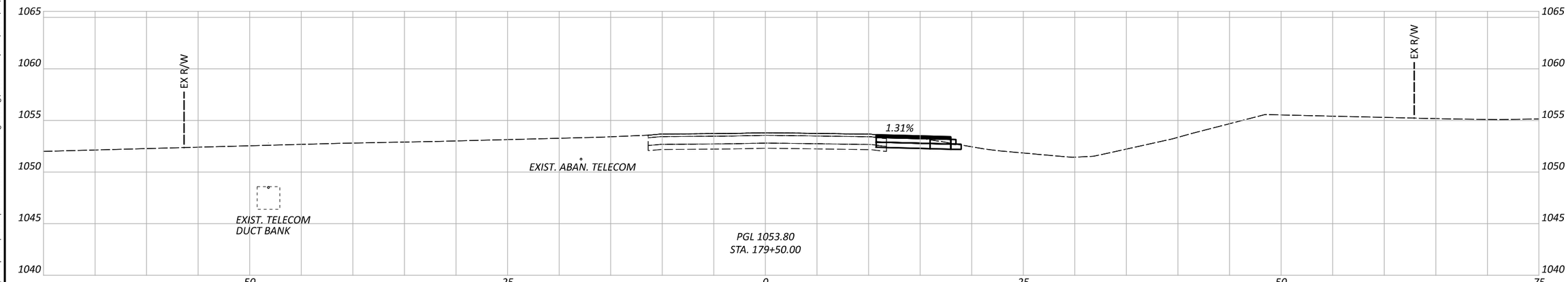
REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 91 TOTAL 246







CROSS SECTIONS - PAVEMENT FOR M.O.T.
SR 729 STA. 179+50 TO STA. 180+50

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER
DPF

REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 92 | TOTAL 246

FAY-435-1.52

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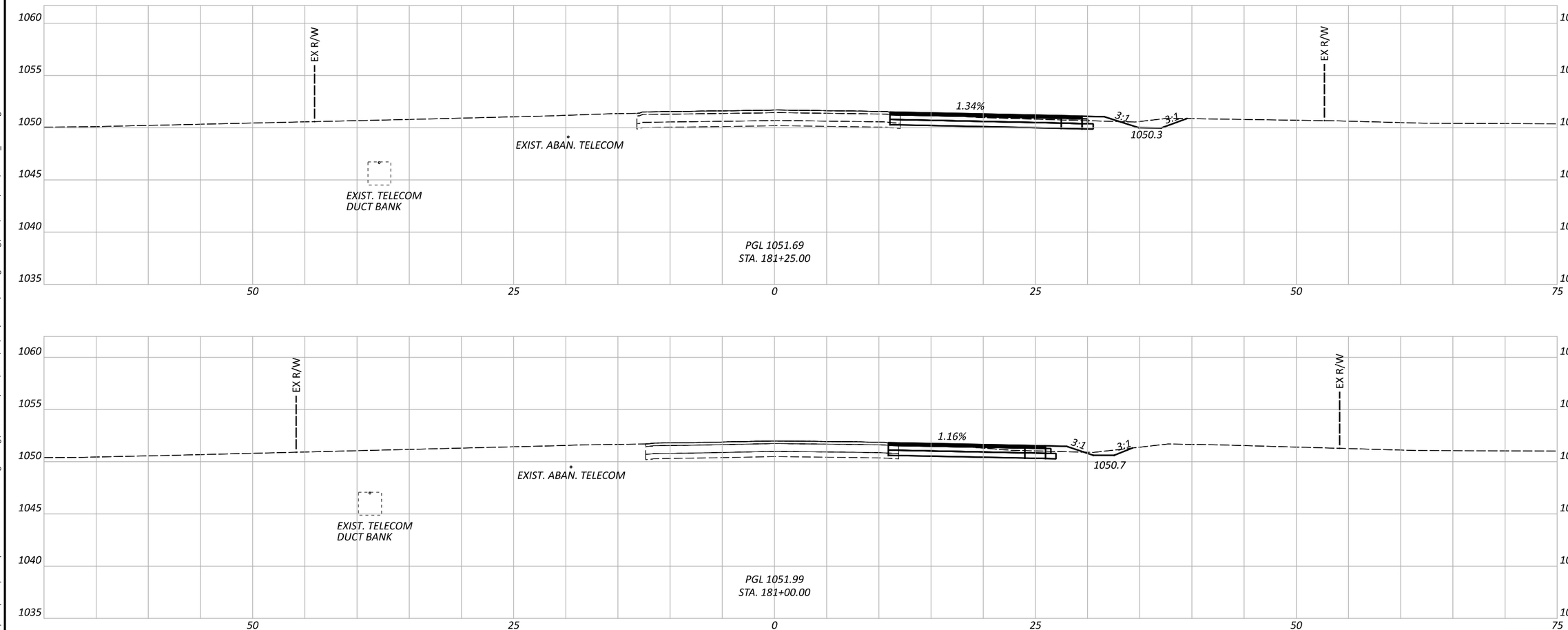

CROSS SECTIONS - PAVEMENT FOR M.O.T.
SR 729 STA. 181+00 TO STA. 181+25

FAY-435-1.52

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Sheet Totals		
Seeding	Cut	Fill

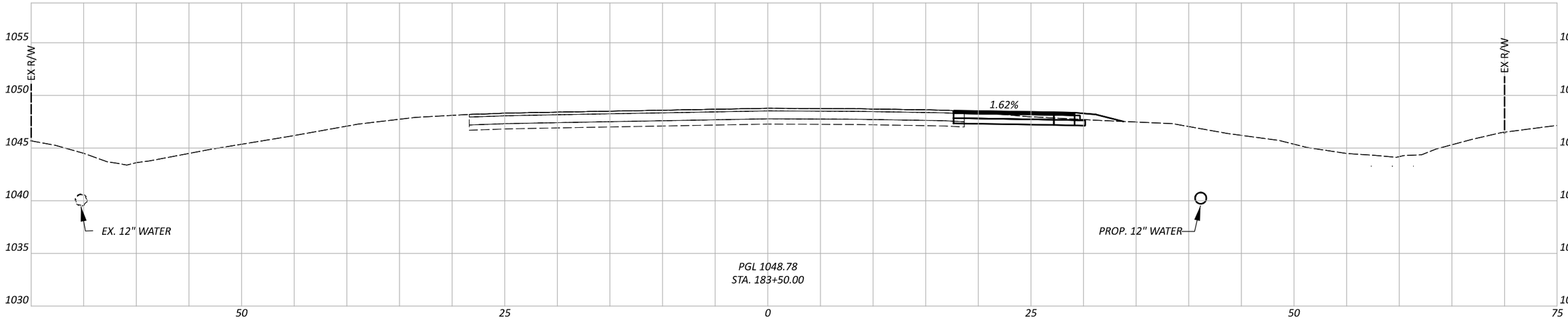
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

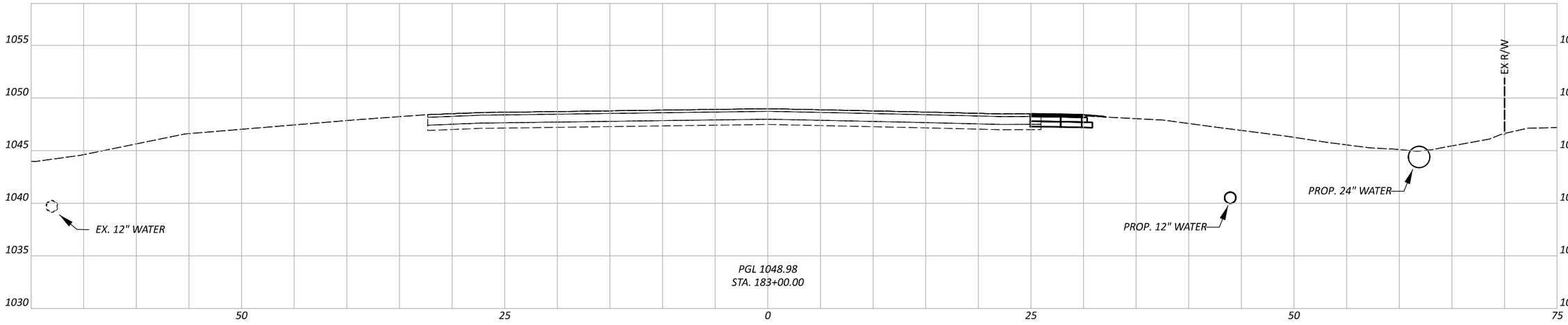
DESIGNER
DPF

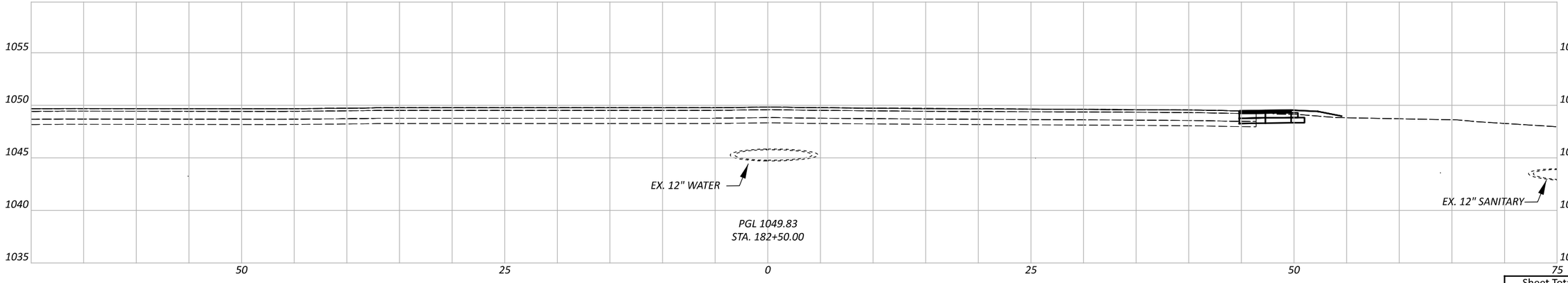
REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 93 | TOTAL 246







CROSS SECTIONS - PAVEMENT FOR M.O.T.
BLUEGRASS BLVD. STA. 182+50 TO STA. 183+50

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER
DPF

REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 94 | TOTAL 246

FAY-435-1.52

MODEL: TEMP PAVE BLUE XS - 182+50.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:32:32 PM USER: dan-f
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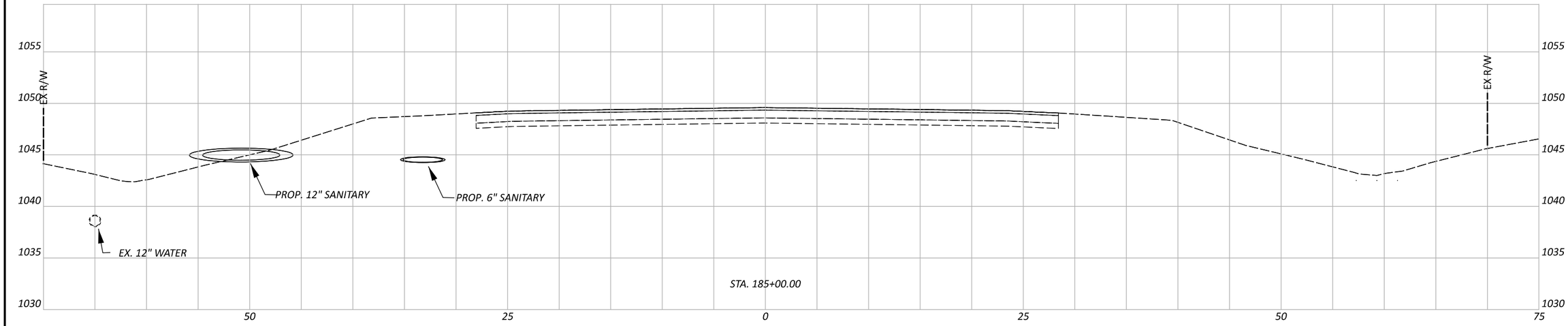

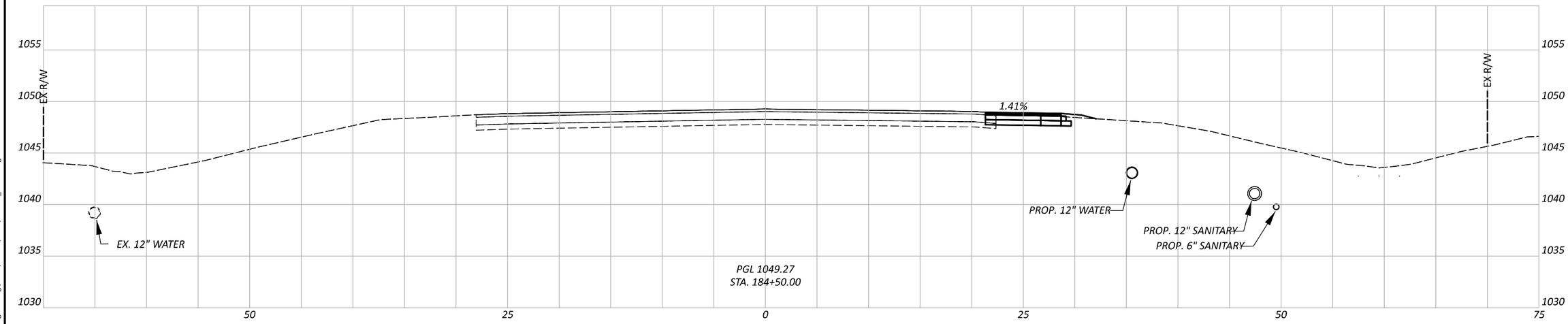

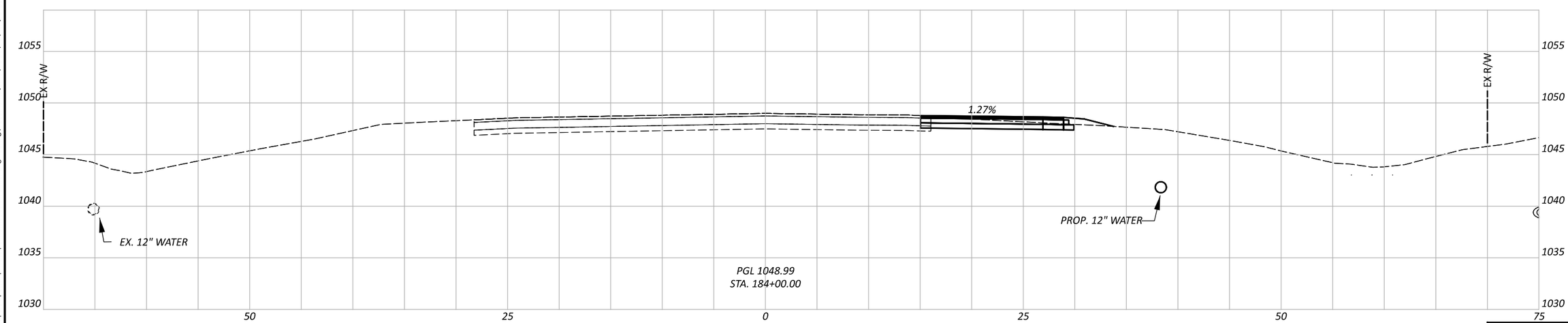

CROSS SECTIONS - PAVEMENT FOR M.O.T. BLUEGRASS BLVD. STA. 184+00 TO STA. 185+00

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY

Palmer ENGINEERING

8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER: DPF

REVIEWER: DCJ 05/10/24

PROJECT ID: 117955

SHEET: P. 95 | TOTAL: 246

FAY-435-1.52

MODEL: TEMP PAVE BLUE XS - 184+00.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:32:34 PM USER: dan-f
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FAY-435-1.52

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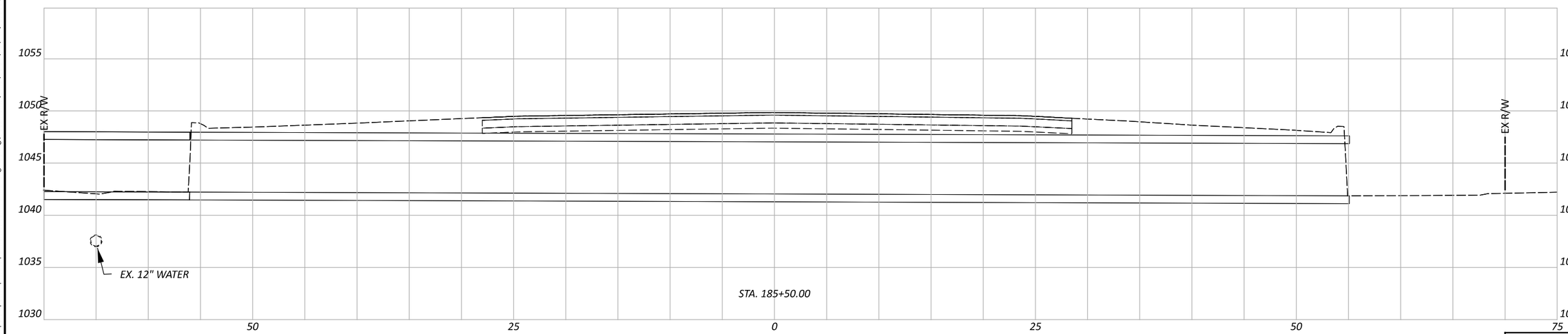

CROSS SECTIONS - PAVEMENT FOR M.O.T.
BLUEGRASS BLVD. STA. 185+50

Sheet Totals

Seeding	Cut	Fill

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER
DPF

REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 96 TOTAL 246

PROJECT DATA	
TOTAL AREA (RIGHT OF WAY)	57.6 Ac.
PROJECT EARTH DISTURBED AREA	17.1 Ac.
ESTIMATED CONTRACTOR DISTURBED AREA	1.6 Ac.
NOTICE OF INTENT EARTH DISTURBED AREA	18.7 Ac.
IMPERVIOUS PAVED AREA FOR PRE-CONSTRUCTION SITE	15.51 Ac.
IMPERVIOUS PAVED AREA FOR POST-CONSTRUCTION SITE	20.12 Ac.
RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.61
RUNOFF COEFFICIENT FOR POST-CONSTRUCTION SITE	0.64

SOIL AND WATER CONSERVATION MAPS	SOIL SURVEY OF FAYETTE COUNTY OH
IMMEDIATE RECEIVING WATERS	RATTLESNAKE CREEK
SUBSEQUENT RECEIVING WATERS	SCIOTO RIVER
USGS TOPO MAP	MILLEDGEVILLE 39083-E5-TF-024

*NOI: OHIO EPA FACILITY PERMIT NUMBER 4GC09771*AG*

HORIZONTAL SCALE IN FEET
0 50 100 200

PROJECT SITE PLAN
SR435/US35 (BU-5)

PROJECT DESCRIPTION

THE PROJECT WILL MAKE IMPROVEMENTS TO SR-435, I-71 INTERCHANGE RAMPS AT SR-435, AND THE US-35 EXIT RAMP AT SR-435 IN FAYETTE COUNTY WITH PAVEMENT WIDENING, RESURFACING, AND OTHER WORK AS REQUIRED.

REMOVE, REDESIGN, AND REPLACE THE EXISTING SIGNALS AT SR-435/I-71 SB RAMPS, SR-435/I-71 NB RAMPS, AND SR-435/ALLEN RD. DESIGN AND INSTALL A NEW SIGNAL AT SR-435/US-35 WB EXIT RAMP TO SR-435.

REMOVE THE TEMPORARY SIGNAL AT THE AT SR-435/BLUEGRASS BLVD/SR-729 INTERSECTION. DESIGN AND CONSTRUCT A ROUNDABOUT INTERSECTION.

LATITUDE: 39°36'52" N LONGITUDE: 83°35'50" W

BMP TYPE	OUTLET STATION	LOCATION	LATITUDE	LONGITUDE	EDA TREATMENT CREDIT (ACRES)
EXTENDED DETENTION	109+76 RT.	SR 435	39.610212	-83.586420	4.80
				TREATMENT PROVIDED	4.80
				TREATMENT REQUIRED	4.74

**BU-5 TREATMENT REQUIREMENTS, SEE BU-4 FOR ADDITIONAL BMP AND TOTAL PROJECT TREATMENT REQUIREMENTS*

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD. SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 97 TOTAL 246

FAY-435-1.52

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AGRICULTURAL
AGRICULTURAL
AGRICULTURAL
AGRICULTURAL
COMMERCIAL
AGRICULTURAL
AGRICULTURAL
AGRICULTURAL
AGRICULTURAL
AGRICULTURAL

CONST. LIMITS
CONST. LIMITS
CONST. LIMITS

LEGEND

FULL DEPTH PAVING (ROUNDABOUT AND APPROACHES):
ITEM 442 - 1½" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446)
ITEM 442 - 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (449)*
ITEM 301 - 9" ASPHALT CONCRETE BASE, PG64-22, (449)
ITEM 304 - 6" AGGREGATE BASE
SUBGRADE TREATMENT PER SCOPE

FULL DEPTH PAVING:
ITEM 442 - 1½" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446)
ITEM 442 - 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (449)*
ITEM 301 - 7" ASPHALT CONCRETE BASE, PG64-22, (449)
ITEM 304 - 6" AGGREGATE BASE
SUBGRADE TREATMENT PER SCOPE

WEDGING AND RESURFACING:
ITEM 442 - 1½" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446)
ITEM 442 - VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE A (449)
ITEM 302 - VARIABLE DEPTH ASPHALT CONCRETE BASE, PG 64-22 (449)
ITEM 254 - PAVEMENT PLANING 1½" DEPTH

ROUNDABOUT SPLITTER ISLANDS:
ITEM 609 - 4" CONCRETE MEDIAN
ITEM 304 - 4" AGGREGATE BASE

ROUNDABOUT TRUCK APRON:
ITEM 451 - 7" REINFORCED CONCRETE PAVEMENT, CLASS QC 1P
ITEM 304 - 14" AGGREGATE BASE

AGGREGATE DRIVES
ITEM 304 - 8" AGGREGATE BASE

CONCRETE DRIVES
ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT

ASPHALT DRIVES
ITEM 442 - 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449) DRIVEWAYS
ITEM 304 - 5" ASPHALT CONCRETE BASE

PAVEMENT FOR MAINTENANCE OF TRAFFIC

CONCRETE PAVEMENT (US-35 RAMP D):
ITEM 452 - 10" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P
ITEM 304 - 6" AGGREGATE BASE
SUBGRATE TREATMENT PER SCOPE

LEGEND
BUILDABLE UNIT 5

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER
DPF

REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 99 TOTAL 246

FAY-435-1.52

MODEL: Legend Sheet PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:33:01 PM USER: dan-f
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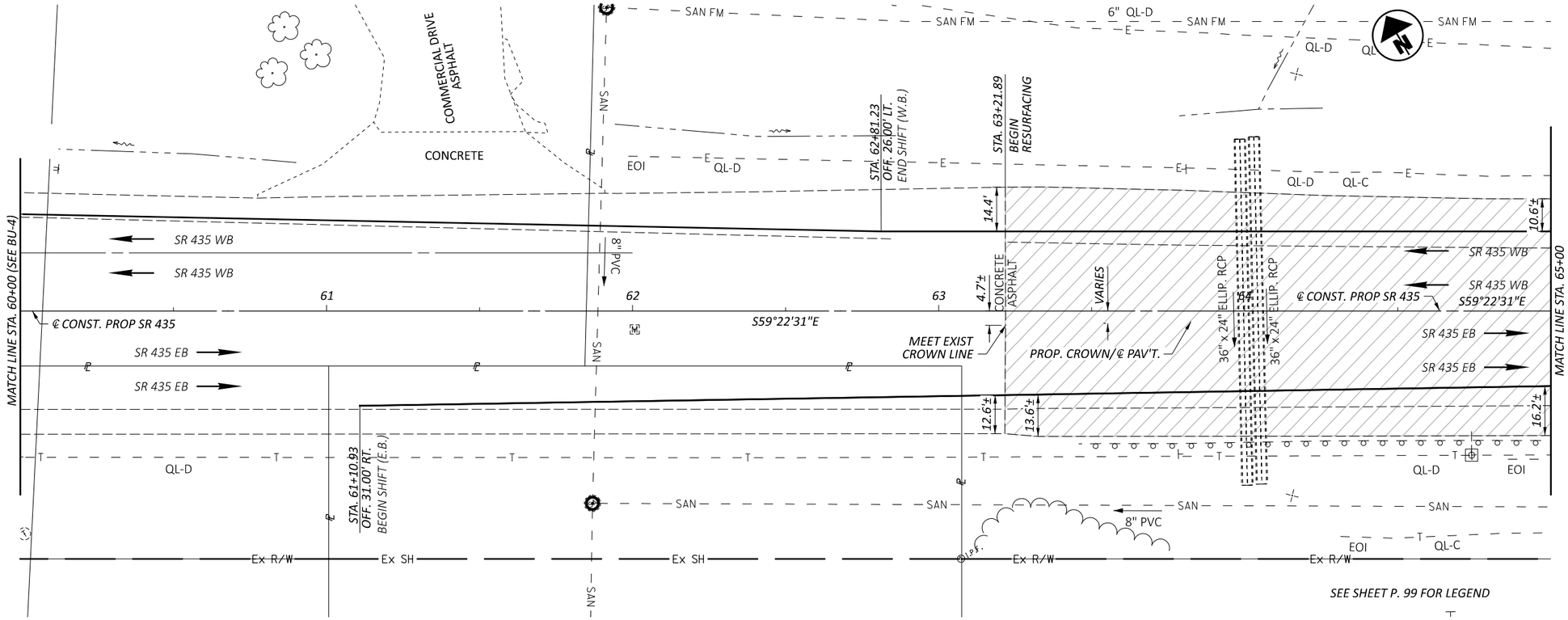

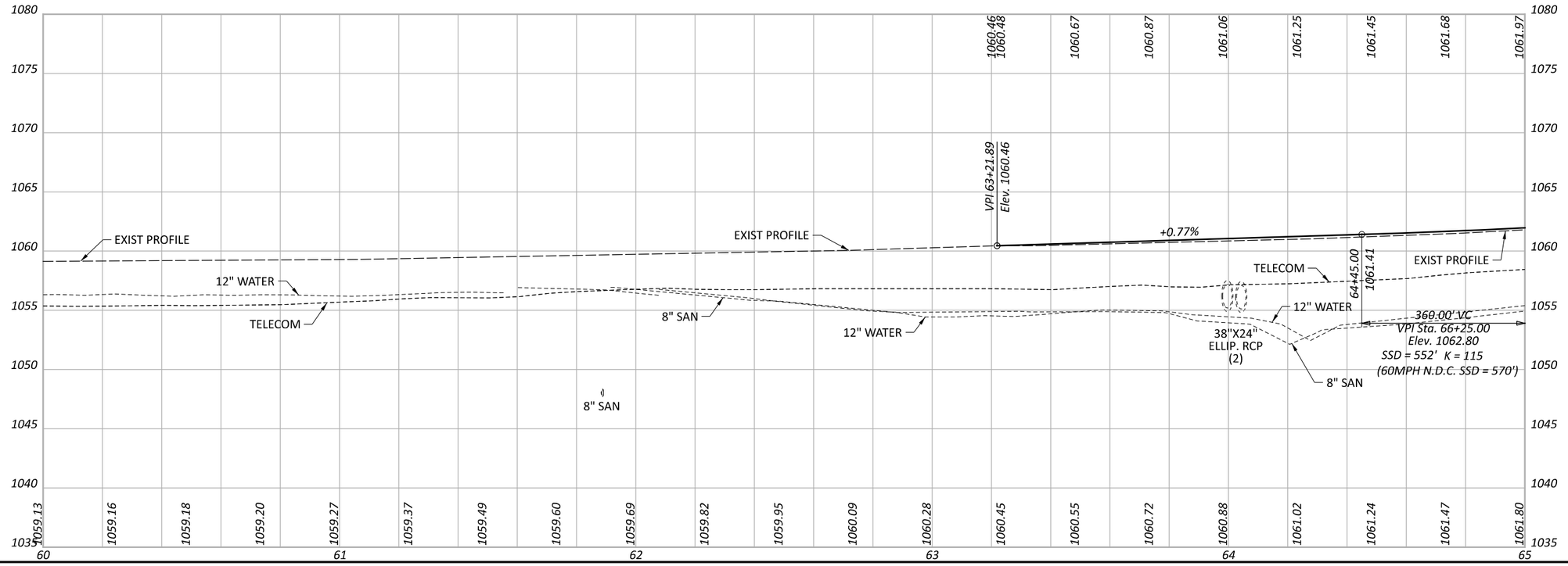

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
S.R. 435 STA 60+00 TO STA 65+00

FAY-435-1.52

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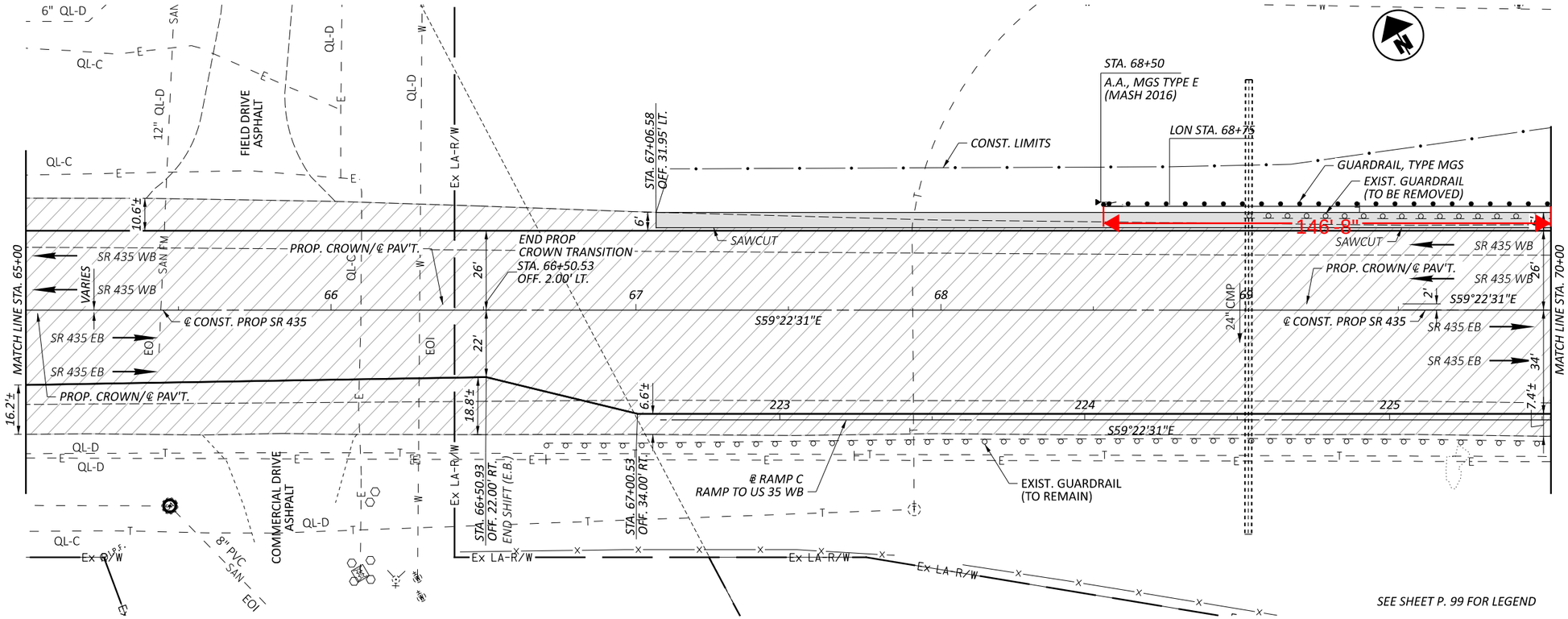
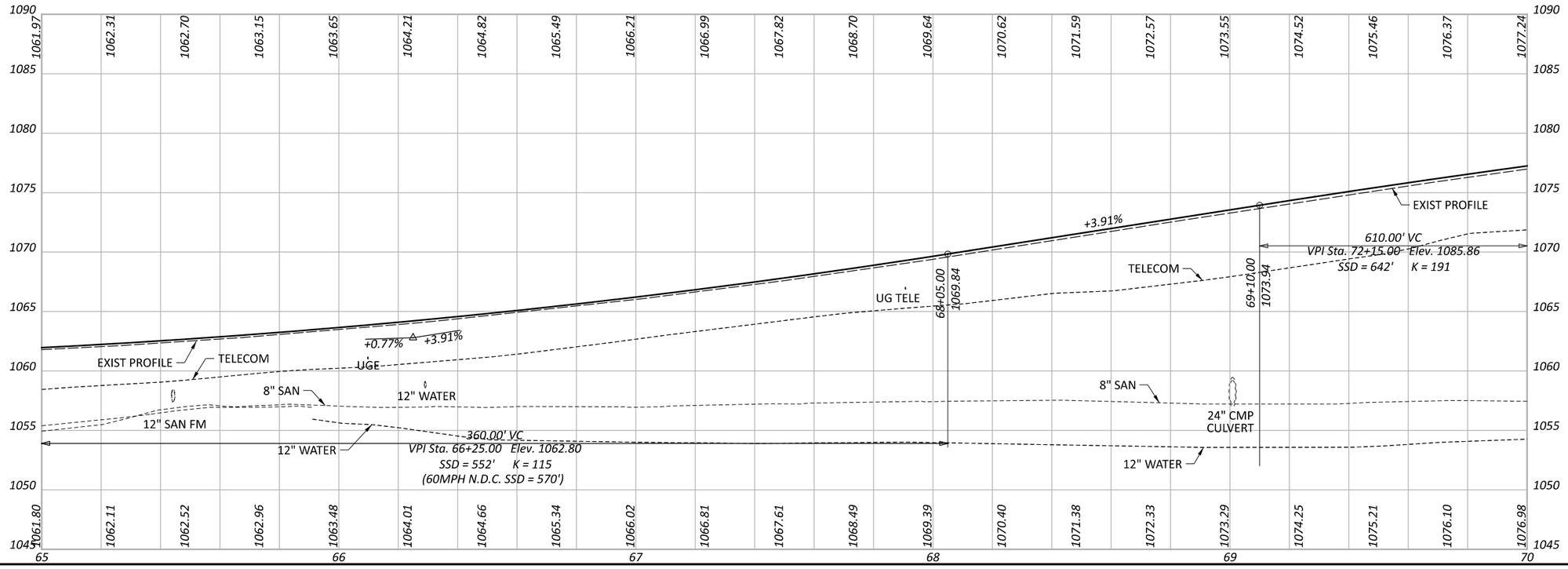
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 100 TOTAL 246





HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
S.R. 435 STA 65+00 TO STA 70+00

DESIGN AGENCY	Palmer ENGINEERING 8350 E. KEMPER RD. SUITE B CINCINNATI,OH 45249 513-469-1600
DESIGNER	DPF
REVIEWER	DCJ 05/10/24
PROJECT ID	117955
SHEET / TOTAL	P. 101 / 246

FAY-435-1.52

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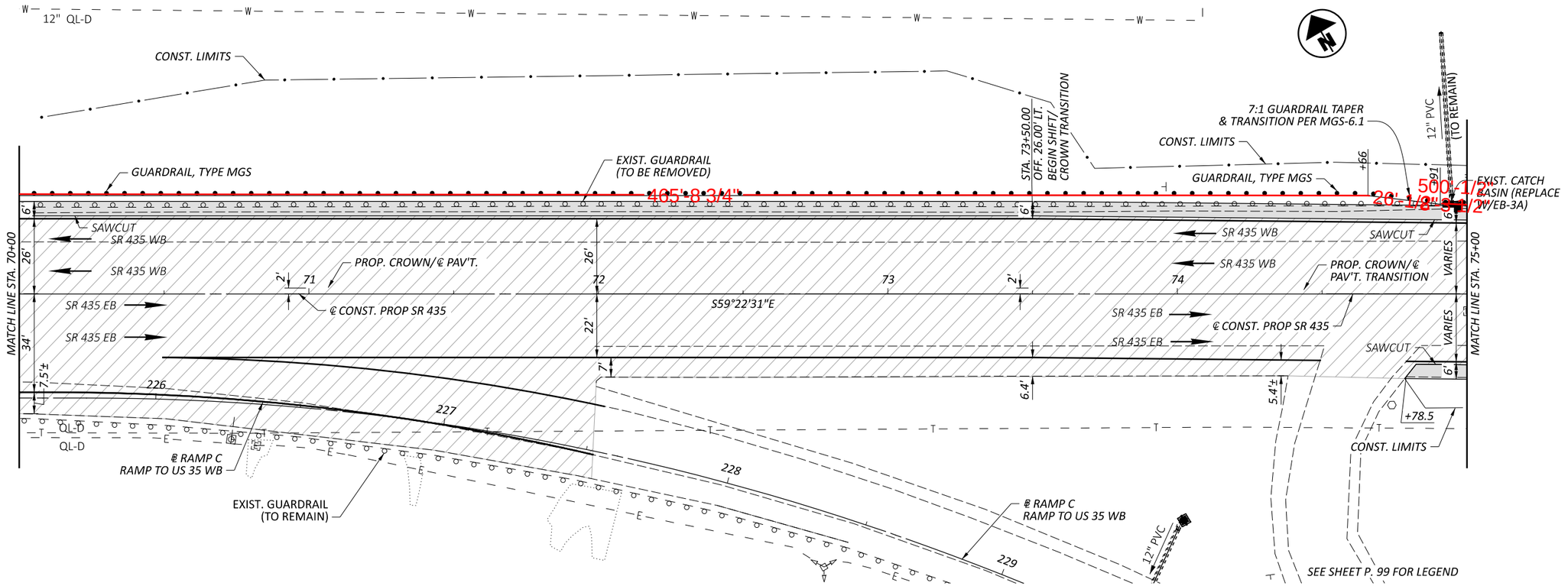
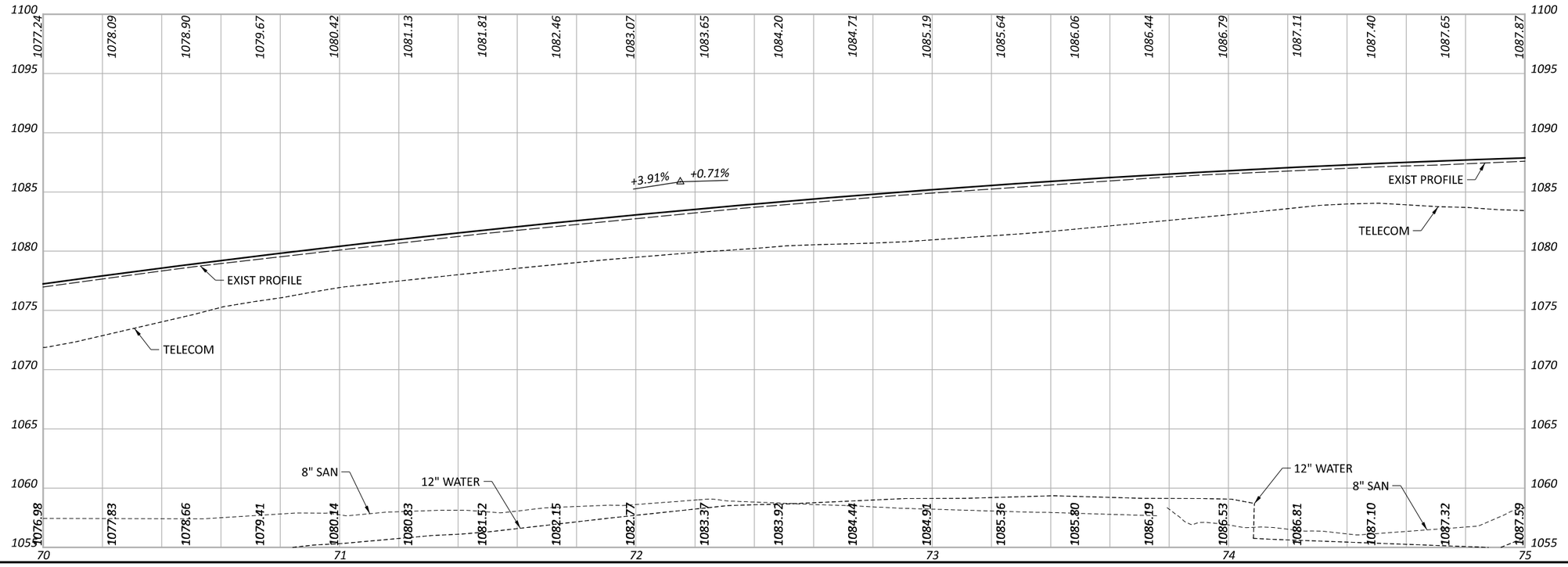




HORIZONTAL SCALE IN FEET
0 10 20 40

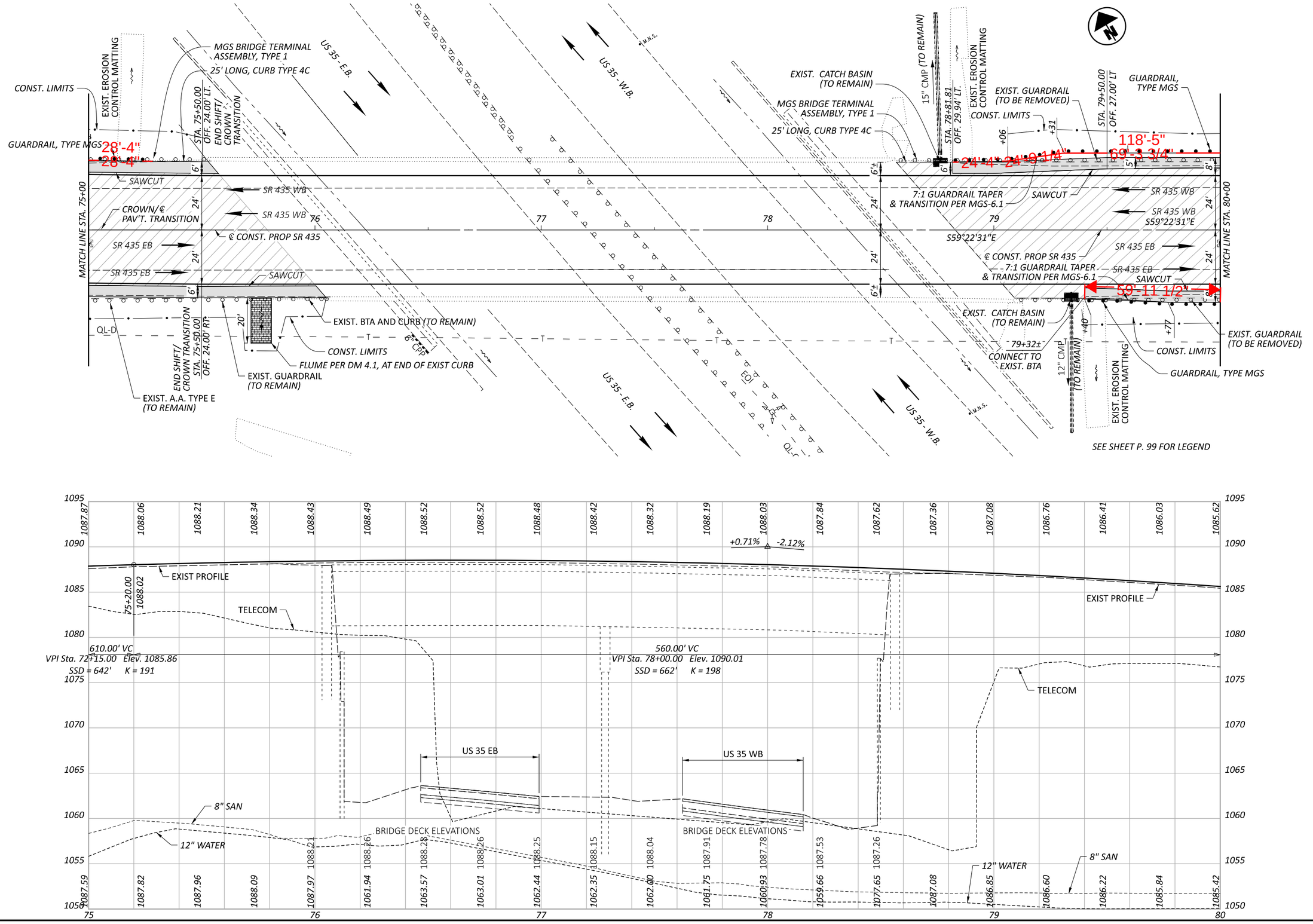
PLAN AND PROFILE
S.R. 435 STA 70+00 TO STA 75+00

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 102 TOTAL 246

FAY-435-1.52

MODEL: SR435 East - Plan 3 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:33:17 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\000-Engineering\Roadway\Sheets\BU-5\117955_GP002.dgn



PLAN AND PROFILE
S.R. 435 STA 75+00 TO STA 80+00

FAY-435-1.52

MODEL: SR435 East - Plan 4 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:33:19 PM USER: dan-f
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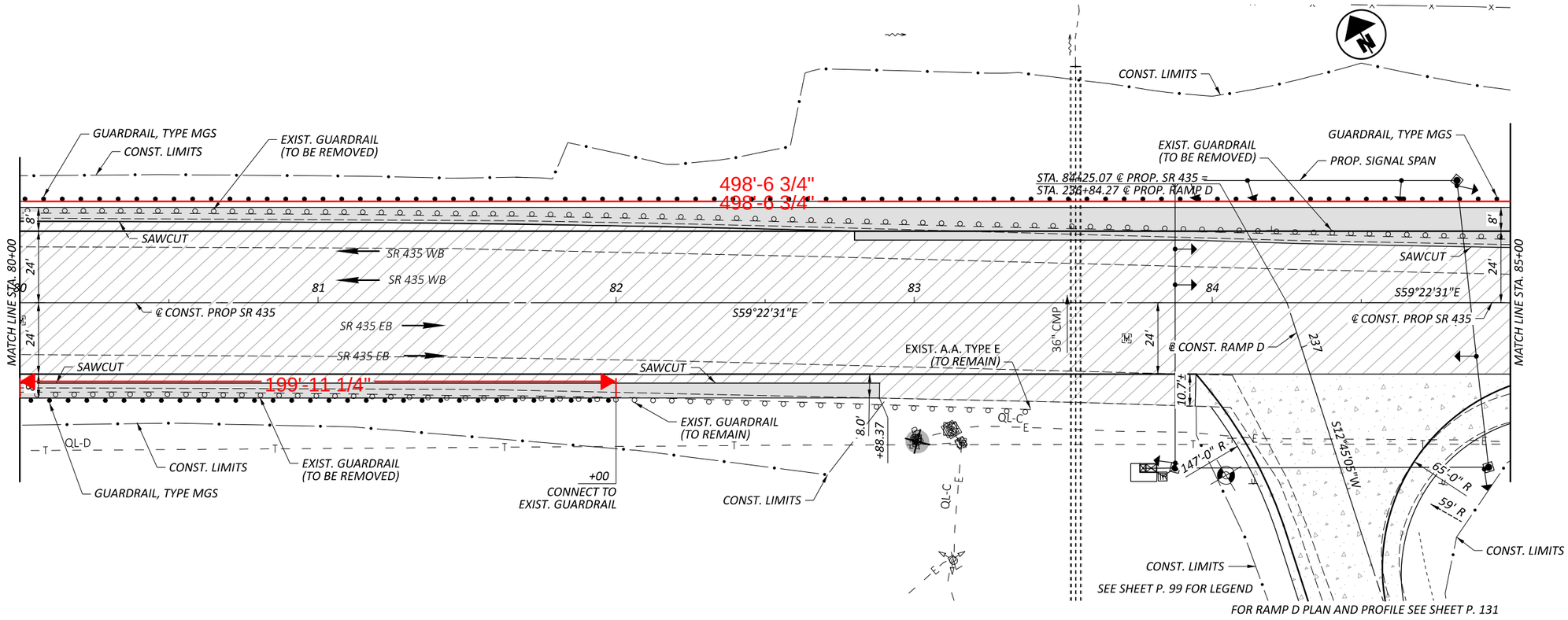
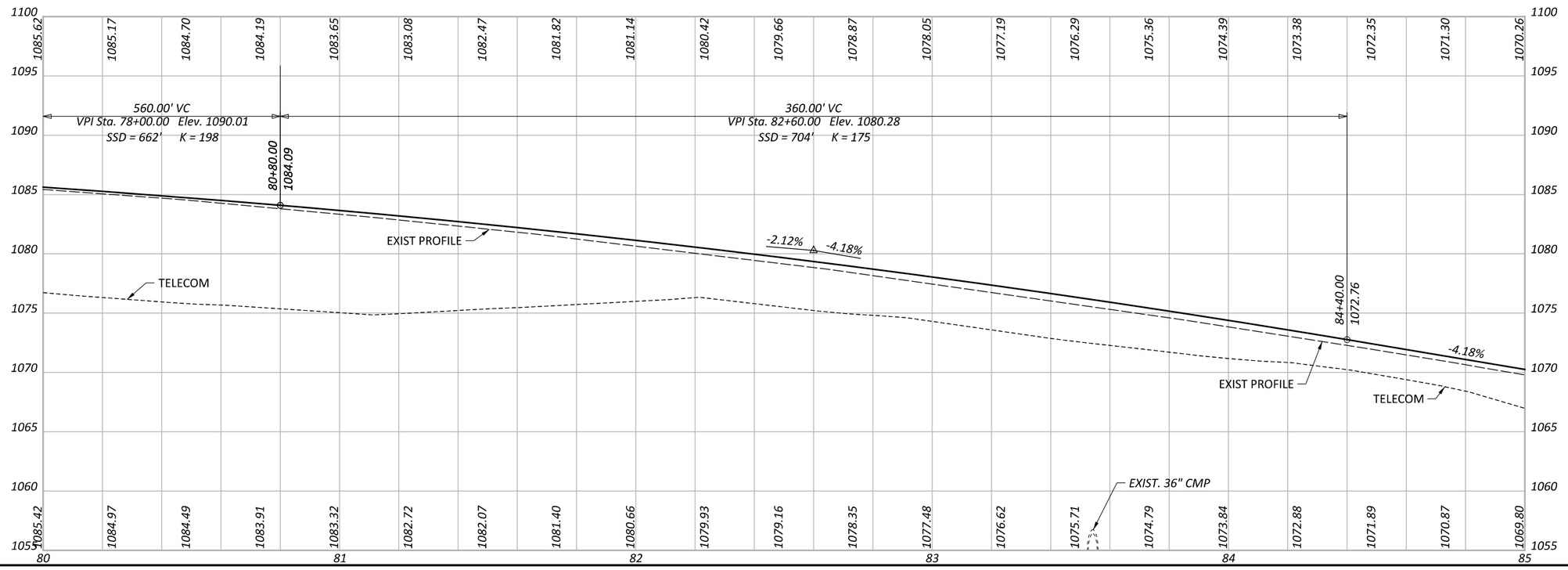
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER	DPF
REVIEWER	DCJ 05/10/24
PROJECT ID	117955
SHEET	P. 103
TOTAL	246





HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
S.R. 435 STA 80+00 TO STA 85+00

FAY-435-1.52

MODEL: SR435 East - Plan 5 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:33:20 PM USER: dan-f
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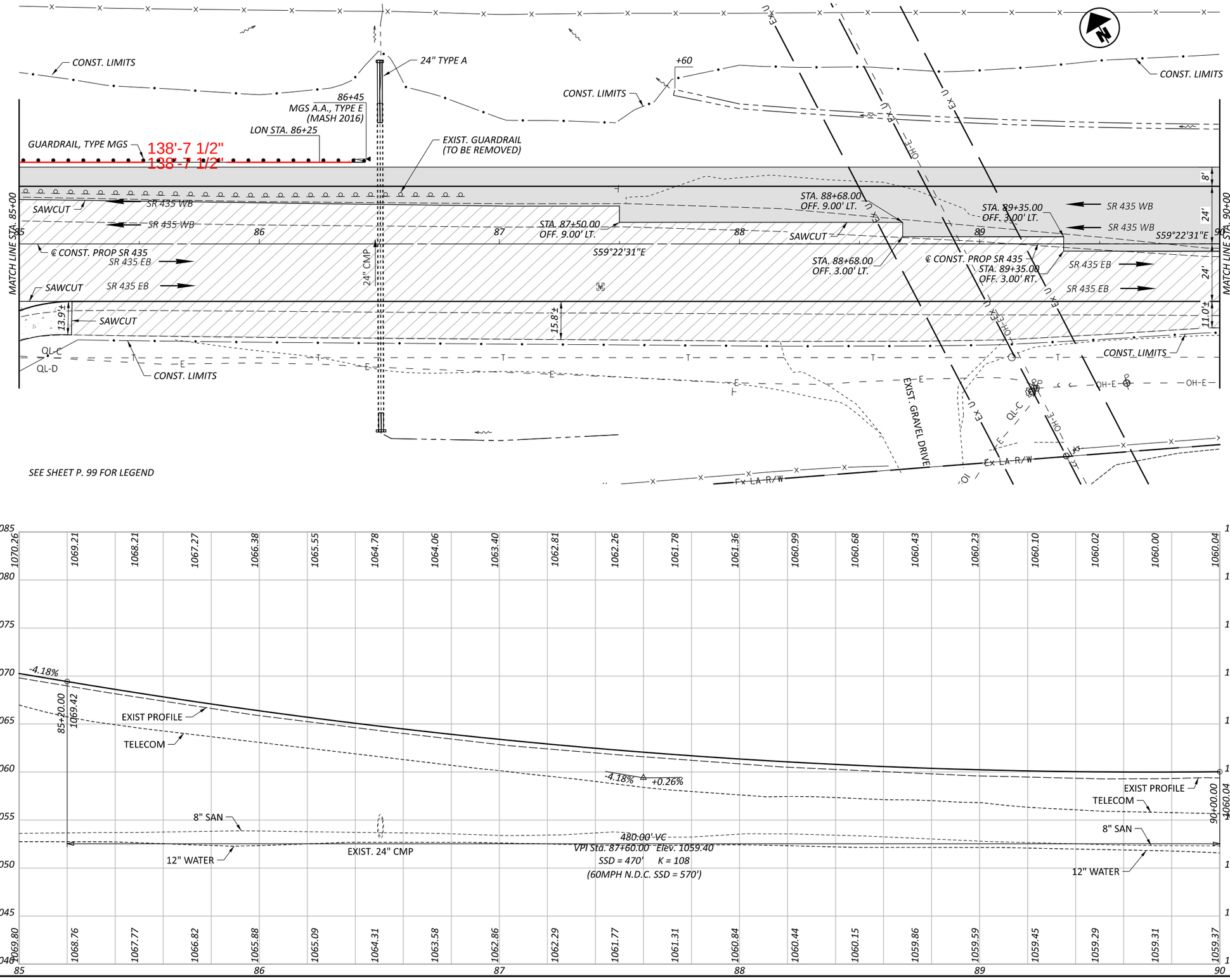
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER	DPF
REVIEWER	DCJ 05/10/24
PROJECT ID	117955
SHEET	P. 104
TOTAL	246



SEE SHEET P. 99 FOR LEGEND

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
S.R. 435 STA 85+00 TO STA 90+00

FAY-435-1.52

MODEL: SR435 East - Plan 6 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:33:22 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\000-Engineering\Roadway\Sheets\BU-5\117955_GP002.dgn

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER	DPF
REVIEWER	DCJ 05/10/24
PROJECT ID	117955
SHEET	P. 105
TOTAL	246

FOR DAVIDSON-SOLLARS RD.
PLAN AND PROFILE SEE SHEET P. 130

12" CMP (TO REMAIN)

CONST. LIMITS

EX LA-R/W

36' R

40' R

60' R

60' R

ITEM 670: DITCH EROSION PROTECTION TYPE B

12" PVC

R/W

SAN FM

8'

24'

24'

11.0'

8.8'

MATCH LINE STA. 90+00

MATCH LINE STA. 95+00

℄ DAVIDSON-SOLLARS RD.

SR 435 WB

SR 435 WB

℄ CONST. PROP SR 435

91

92

93

94

S59°22'31"E

SAWCUT

SR 435 EB

SR 435 EB

12" QL-C

QL-D

EOI

CONST. LIMITS

12" CPP

FIELD DRIVE

TMP

OH-E

Ex SH

Ex LA-R/W

SEE SHEET P. 99 FOR LEGEND

420.00' VC
VPI Sta. 92+35.00 Elev. 1060.66
SSD = 1146' K = 364

90+25.00
1060.10

94+45.00
1058.79

+0.26%

-0.89%

EXIST PROFILE

TELECOM

8" SAN

12" WATER

90+00.00
1060.04

UG ATT TELE

TOP OF TELECOM DUCTS

12" SAN

1080
1075
1070
1065
1060
1055
1050
1045
1040
1035

90
91
92
93
94
95

1060.04 1060.10 1060.16 1060.20 1060.22 1060.23 1060.22 1060.19 1060.15 1060.08 1060.00 1059.91 1059.79 1059.66 1059.51 1059.35 1059.17 1058.97 1058.75 1058.53 1058.31

1059.37 1059.43 1059.52 1059.61 1059.63 1059.38 1059.37 1059.33 1059.24 1059.21 1059.08 1059.05 1059.13 1058.88 1058.52 1058.42 1058.16 1057.91 1057.77 1057.59 1057.45

HORIZONTAL SCALE IN FEET
0 10 20 40

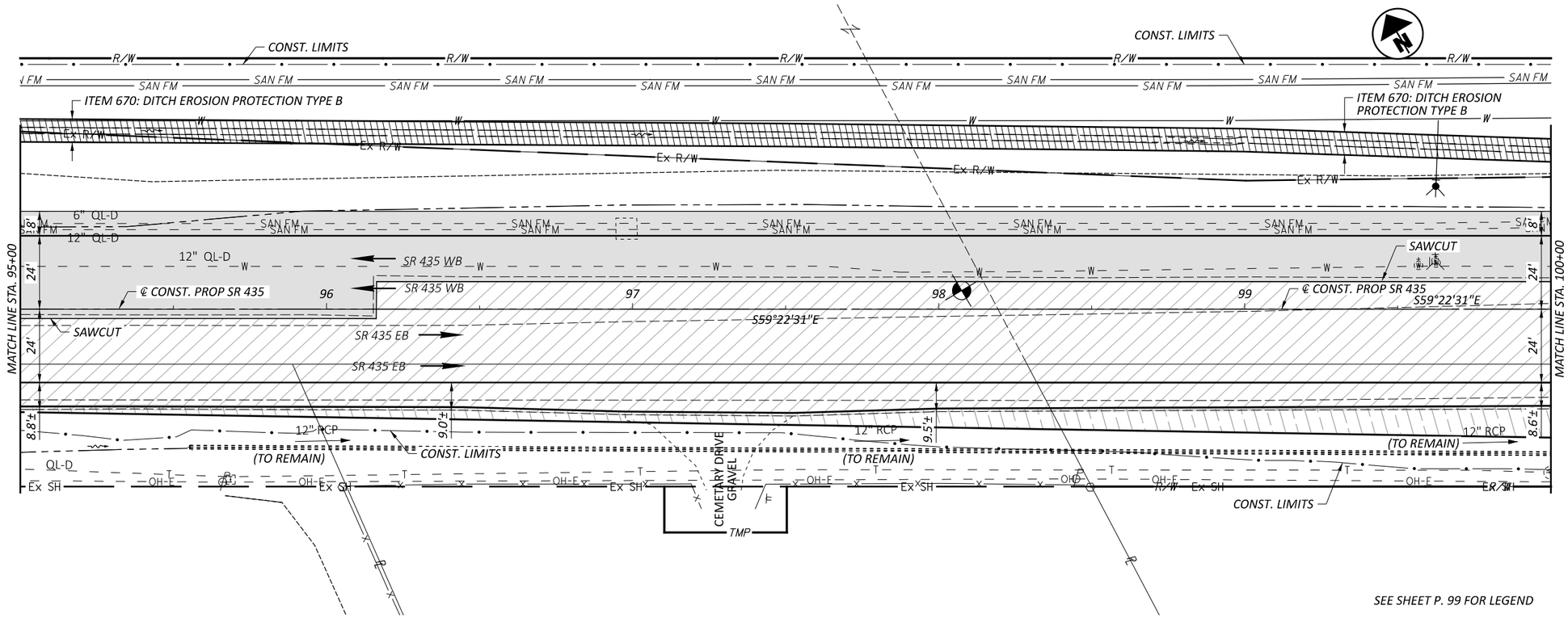
PLAN AND PROFILE
S.R. 435 STA 90+00 TO STA 95+00

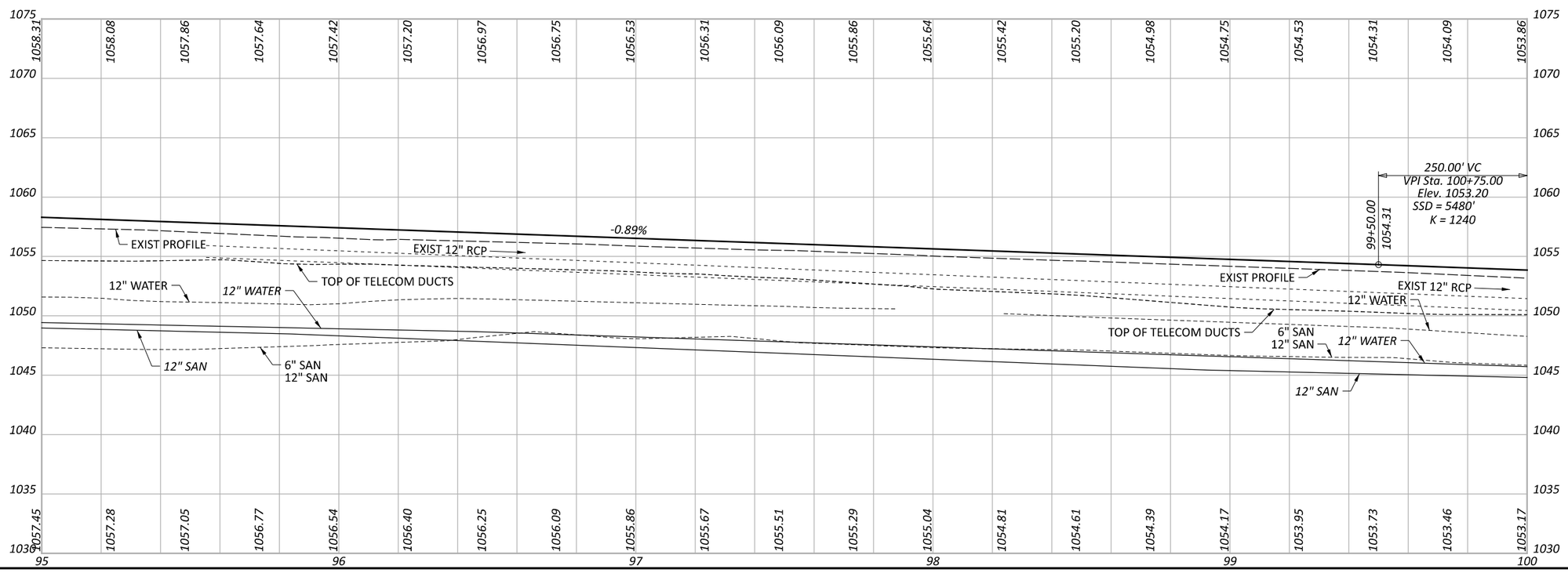
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 106 TOTAL 246

FAY-435-1.52

MODEL: SR435 East - Plan 7 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:33:24 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\V00-Engineering\Roadway\Sheets\BU-5\117955_GP002.dgn





HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
S.R. 435 STA 95+00 TO STA 100+00

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 107 TOTAL: 246

FAY-435-1.52

MODEL: SR435 East - Plan 8 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:33:26 PM USER: dan-f
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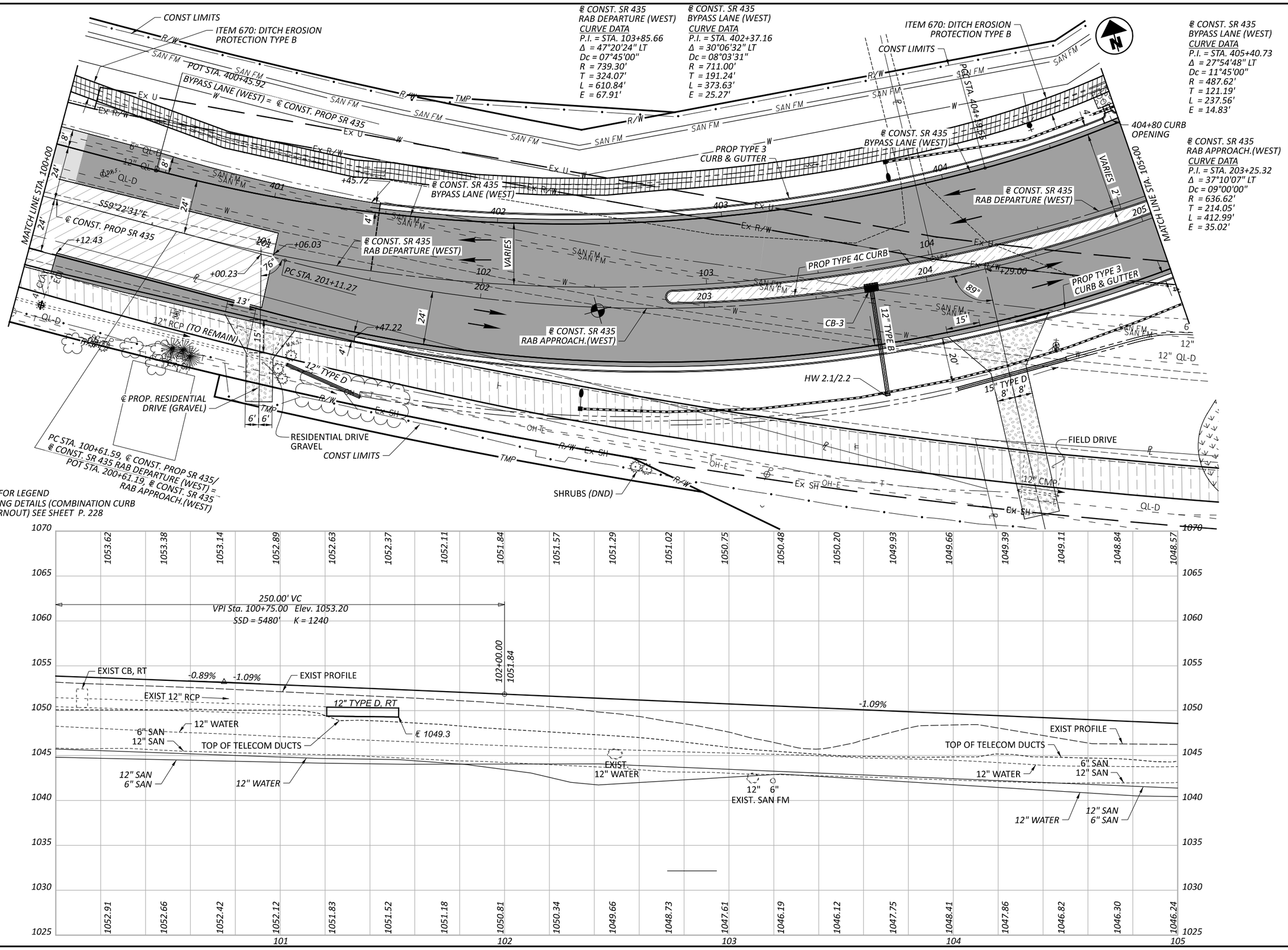


PLAN AND PROFILE
S.R. 435 (RAB WEST) STA 100+00 TO STA 105+00

FAY-435-1.52

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD. SUITE B CINCINNATI, OH 45249 513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 108 TOTAL 246

MODEL: CLP_SR435_WEST_RAB_APPR - Plan 1 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/30/2024 TIME: 11:12:38 AM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\000-Engineering\Roadway\Sheets\BU-5\117955_GP003.dgn

℄ CONST. SR 435
BYPASS LANE (WEST)

CURVE DATA
P.I. = STA. 405+40.73
Δ = 27°54'48" LT
Dc = 11°45'00"
R = 487.62'
T = 121.19'
L = 237.56'
E = 14.83'

CURVE DATA
P.I. = STA. 407+94.97
Δ = 45°40'07" LT
Dc = 17°30'01"
R = 327.40'
T = 137.86'
L = 260.96'
E = 27.84'

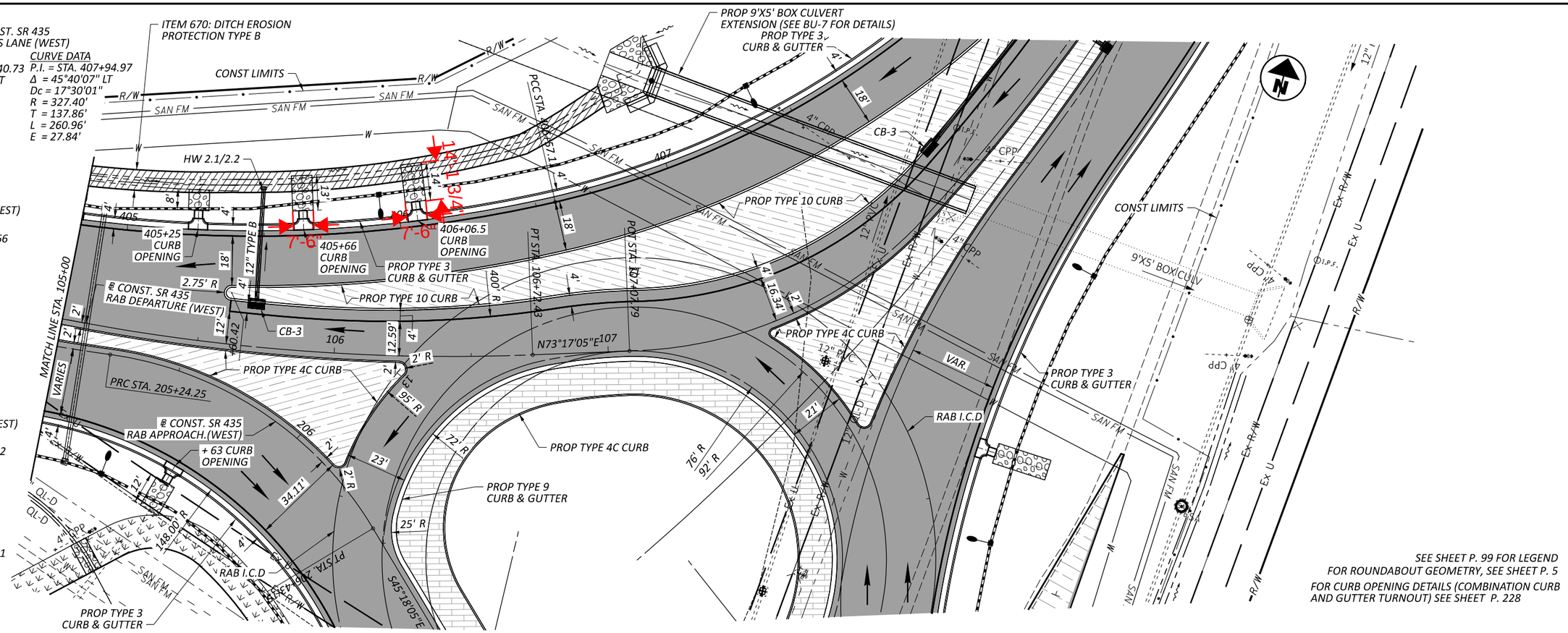
℄ CONST. SR 435
RAB DEPARTURE (WEST)

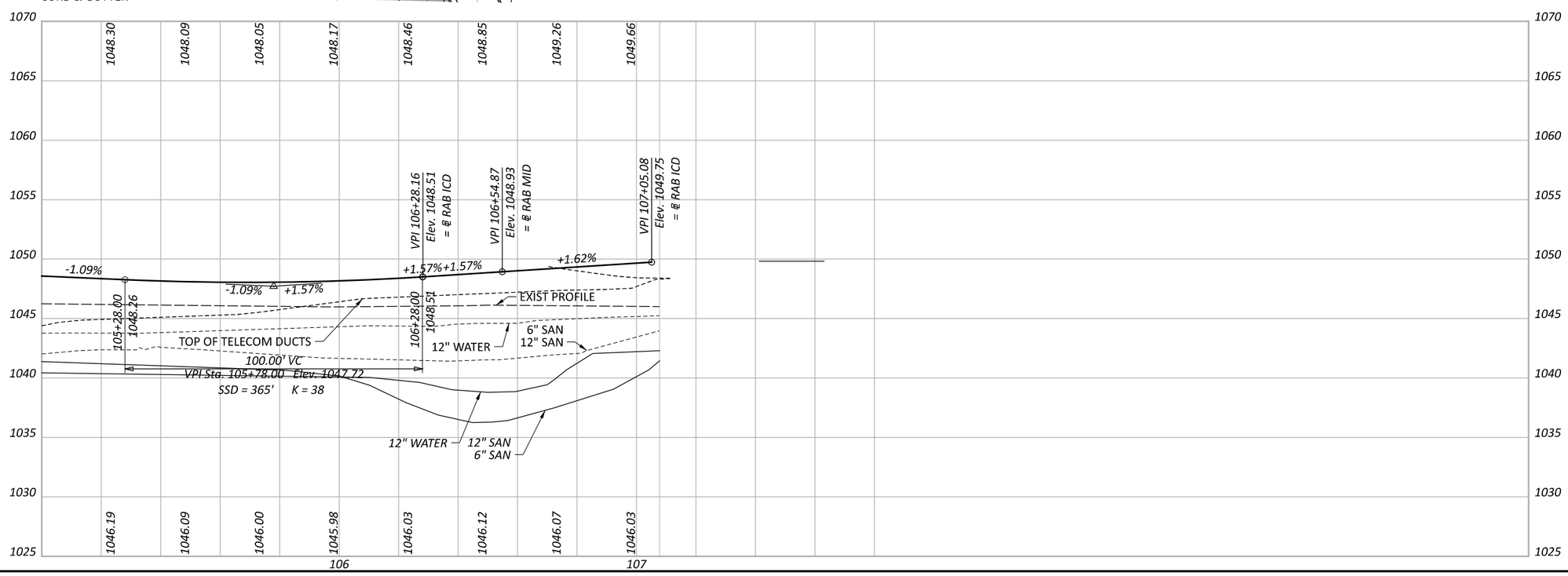
CURVE DATA
P.I. = STA. 103+85.66
Δ = 47°20'24" LT
Dc = 07°45'00"
R = 739.30'
T = 324.07'
L = 610.84'
E = 67.91'

℄ CONST. SR 435
RAB APPROACH.(WEST)

CURVE DATA
P.I. = STA. 203+25.32
Δ = 37°10'07" LT
Dc = 09°00'00"
R = 636.62'
T = 214.05'
L = 412.99'
E = 35.02'

CURVE DATA
P.I. = STA. 205+88.01
Δ = 51°14'33" RT
Dc = 43°05'51"
R = 132.94'
T = 63.76'
L = 118.9'
E = 14.5'





HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
S.R. 435 (RAB WEST) STA 105+00 TO STA 107+07.79

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 109 TOTAL 246

FAY-435-1.52

MODEL: CLP_SR435_WEST_RAB_APPR - Plan 2 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/30/2024 TIME: 11:13:44 AM USER: dan-f
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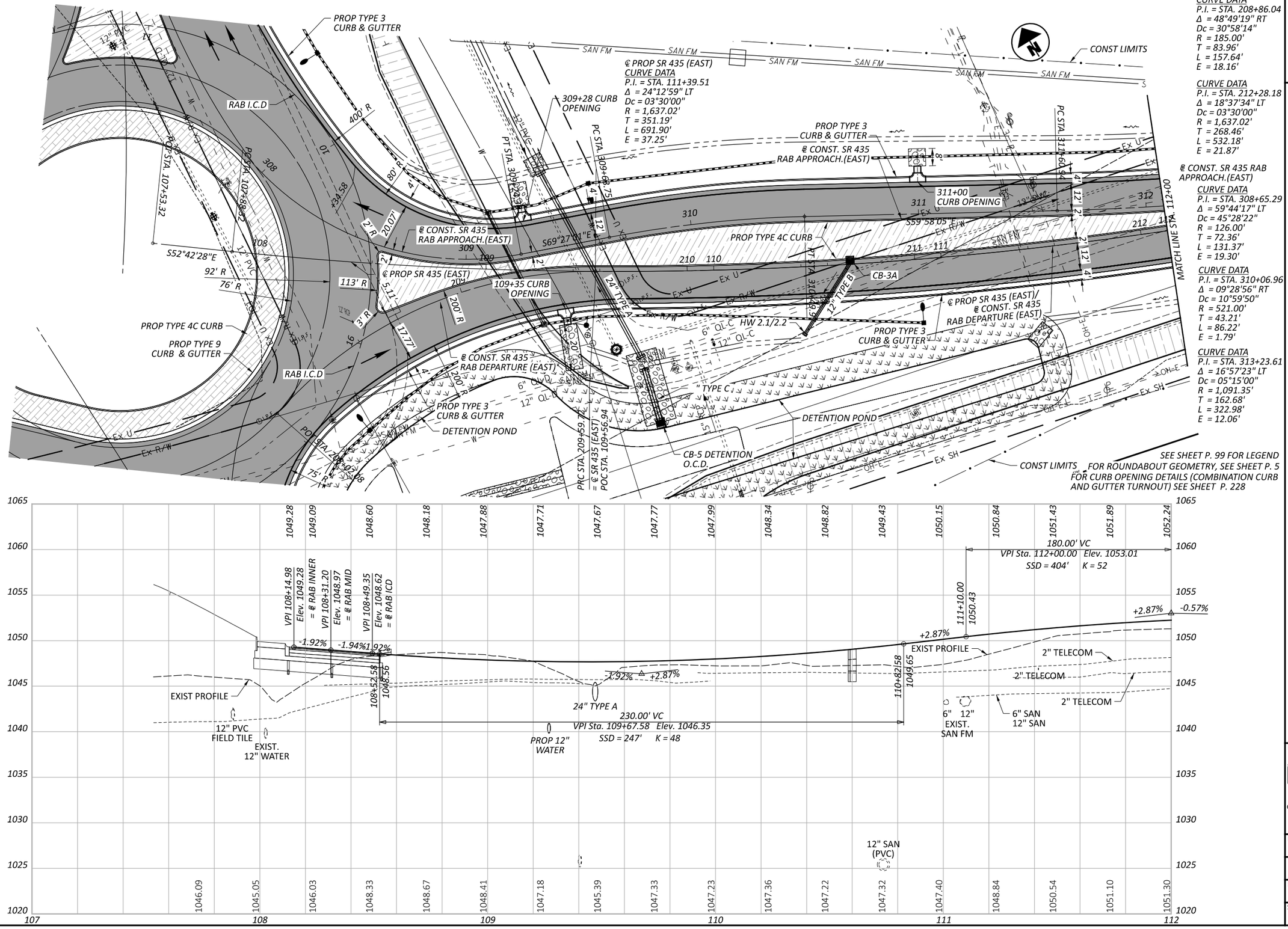

PLAN AND PROFILE
S.R. 435 (RAB EAST) STA 107+53.32 TO STA 112+00

FAY-435-1.52

MODEL: CLP_SR435_RAB_APPR_EAST - Plan 3 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/30/2024 TIME: 11:14:46 AM USER: dan-f
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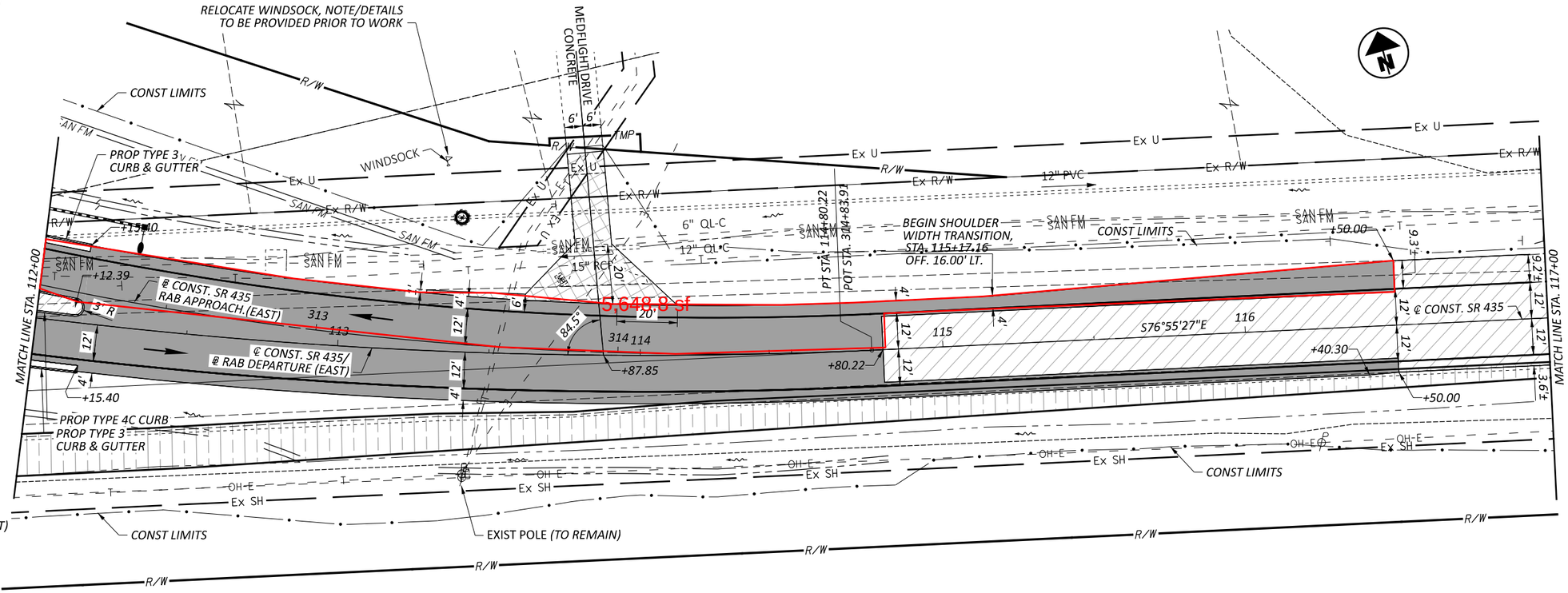
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD. SUITE B
CINCINNATI,OH 45249
513-469-1600

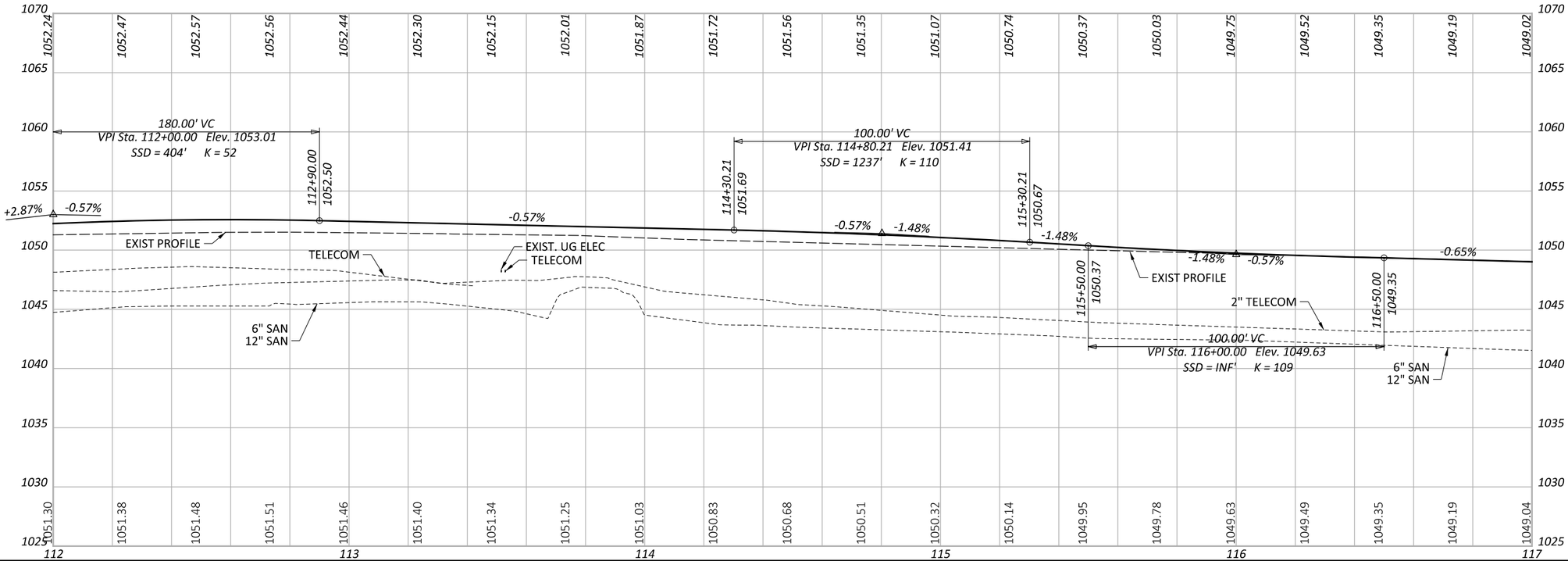
DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 110 TOTAL 246

℄ CONST. SR 435
RAB APPROACH.(EAST)
CURVE DATA
P.I. = STA. 313+23.61
Δ = 16°57'23" LT
Dc = 05°15'00"
R = 1,091.35'
T = 162.68'
L = 322.98'
E = 12.06'



℄ CONST. SR 435/
℄ RAB DEPARTURE (EAST)
CURVE DATA
P.I. = STA. 111+39.51
Δ = 24°12'59" LT
Dc = 03°30'00"
R = 1,637.02'
T = 351.19'
L = 691.90'
E = 37.25'

SEE SHEET P. 99 FOR LEGEND



HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
S.R. 435 (RAB EAST) STA 112+00 TO STA 117+00

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 111 TOTAL 246

FAY-435-1.52

MODEL: CLP_SR435_RAB_APPR_EAST - Plan 4 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:33:46 PM USER: dan-f
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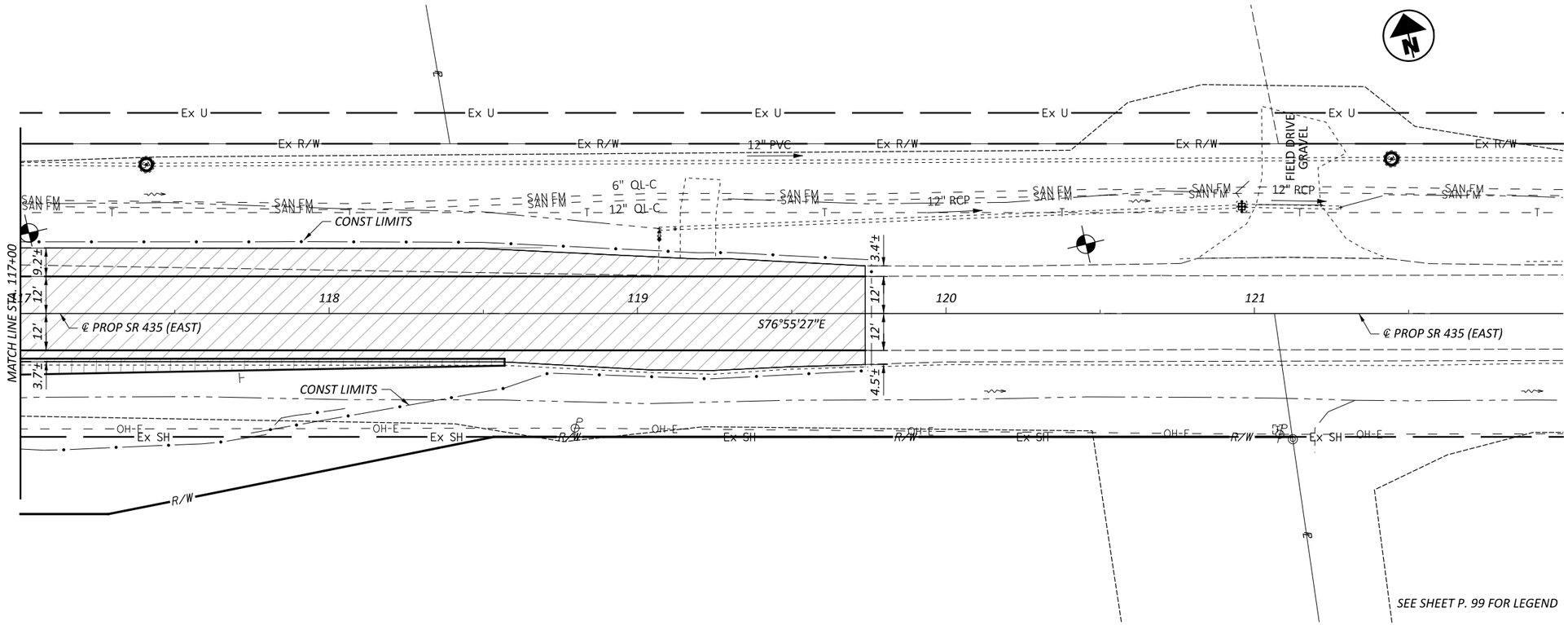
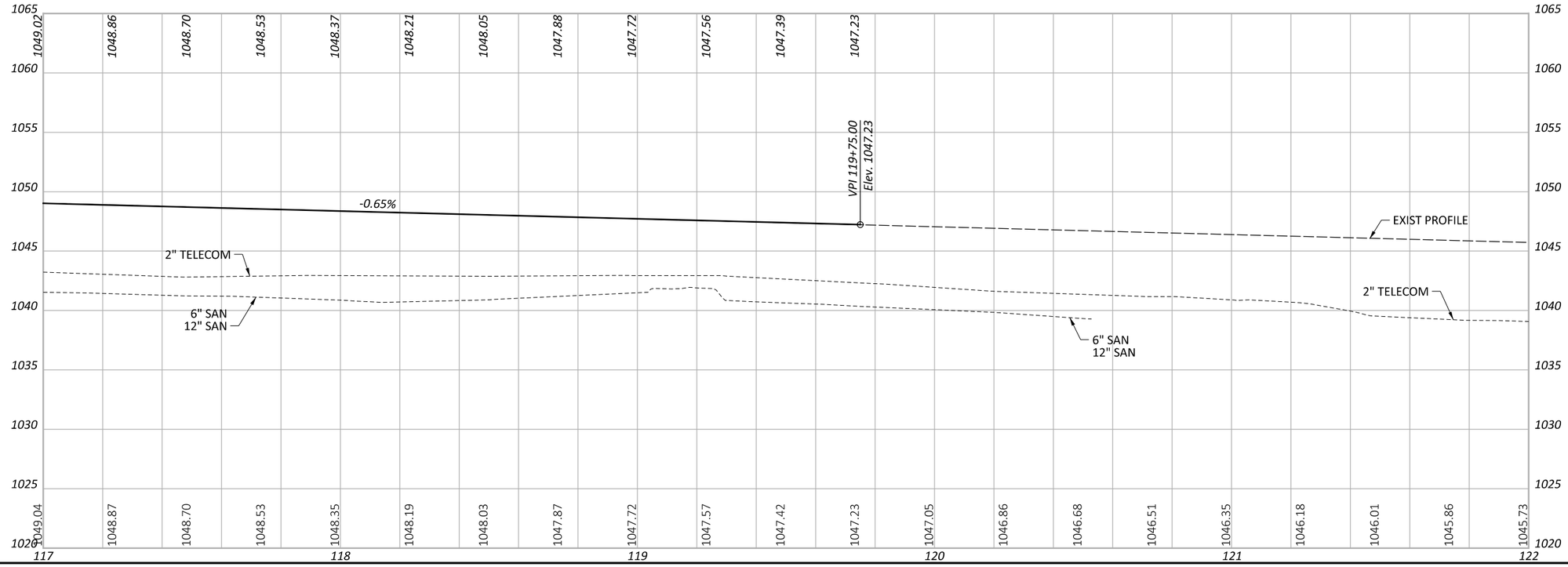




HORIZONTAL SCALE IN FEET
0 10 20 40

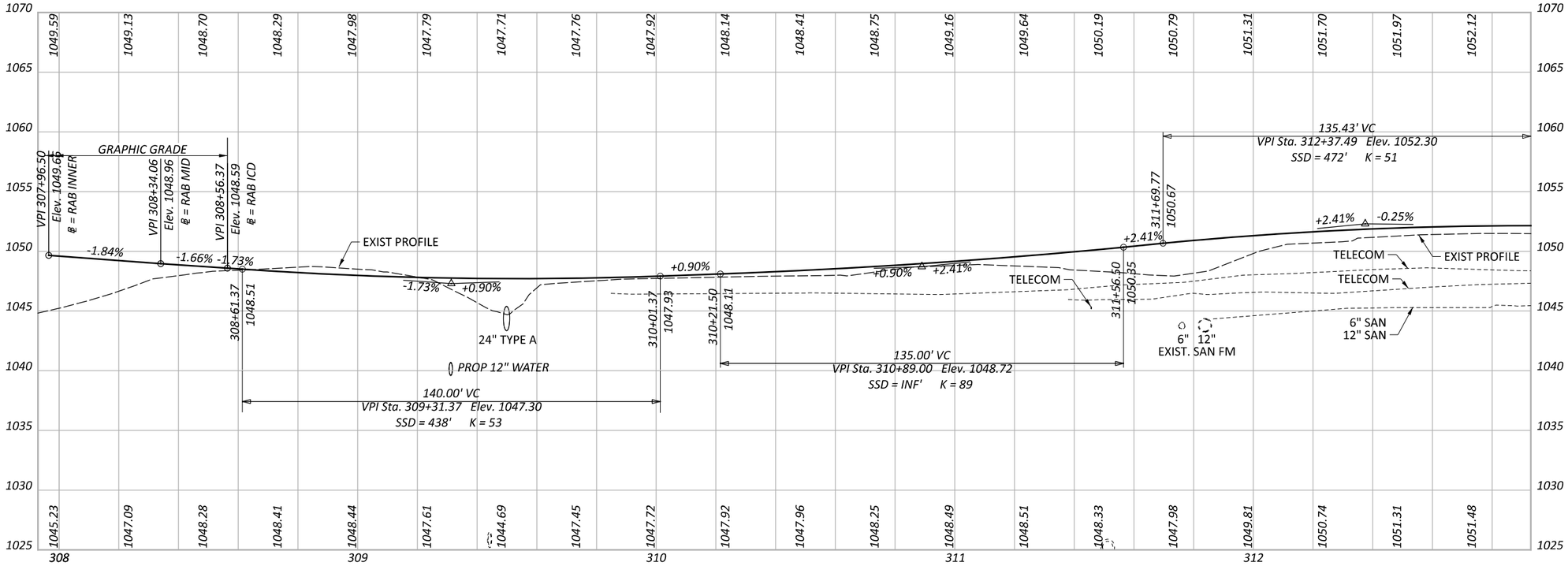
PLAN AND PROFILE
S.R. 435 (RAB EAST) STA 117+00 TO STA 122+00

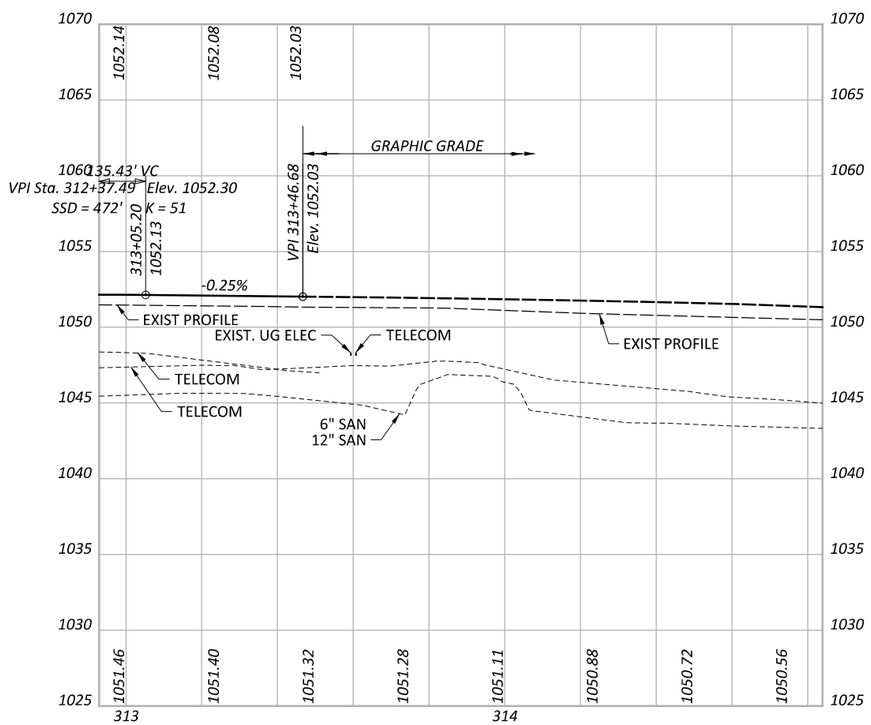
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 112 TOTAL 246

FAY-435-1.52

MODEL: CLP_SR435_RAB_APPR_EAST - Plan 5 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:33:47 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\Roadway\Sheets\BU-51\117955_GP003.dgn





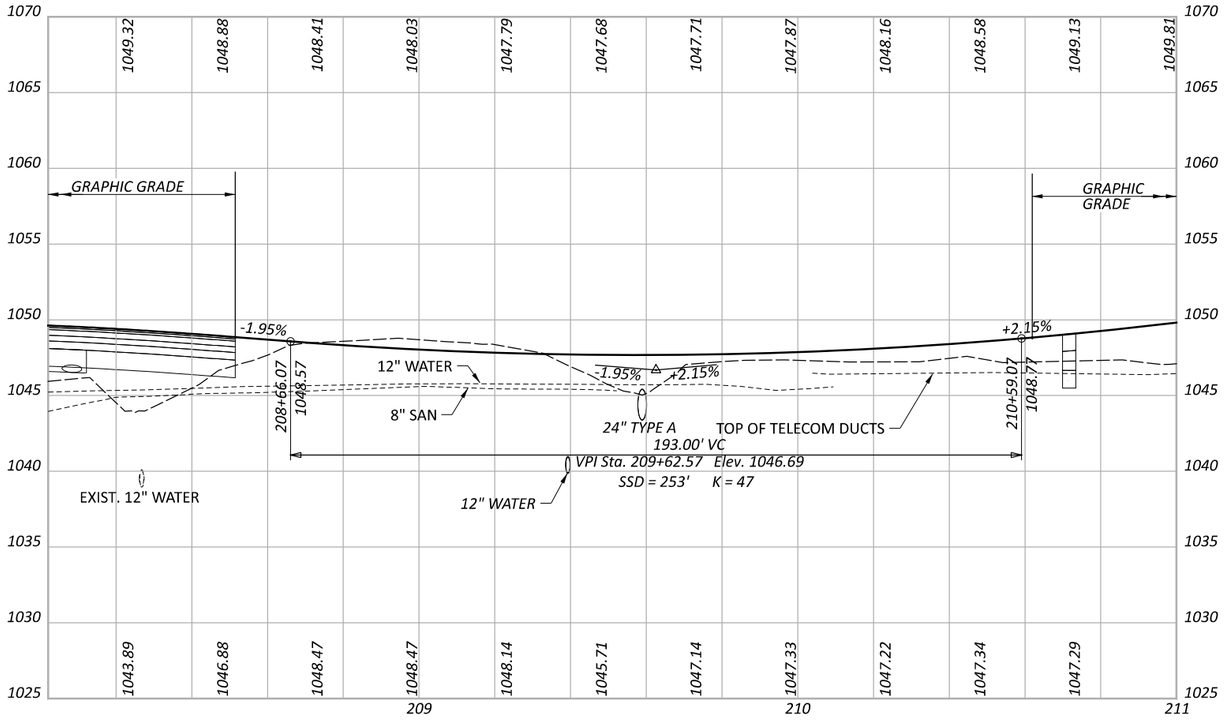
FAY-435-1.52

MODEL: Profile - East RAB Approach [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:34:03 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\Roadway\Sheets\BU-5117955_GF003.dgn

PROFILES
SR 435 - ROUNDABOUT APPROACH (EAST)

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 113 TOTAL 246



FAY-435-1.52

MODEL: Profile - East RAB Departure [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:34:03 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\Roadway\Sheets\BU-5\117955_GF003.dgn

PROFILES

SR 435 - ROUNDABOUT DEPARTURE (EAST)

DESIGN AGENCY

Palmer ENGINEERING

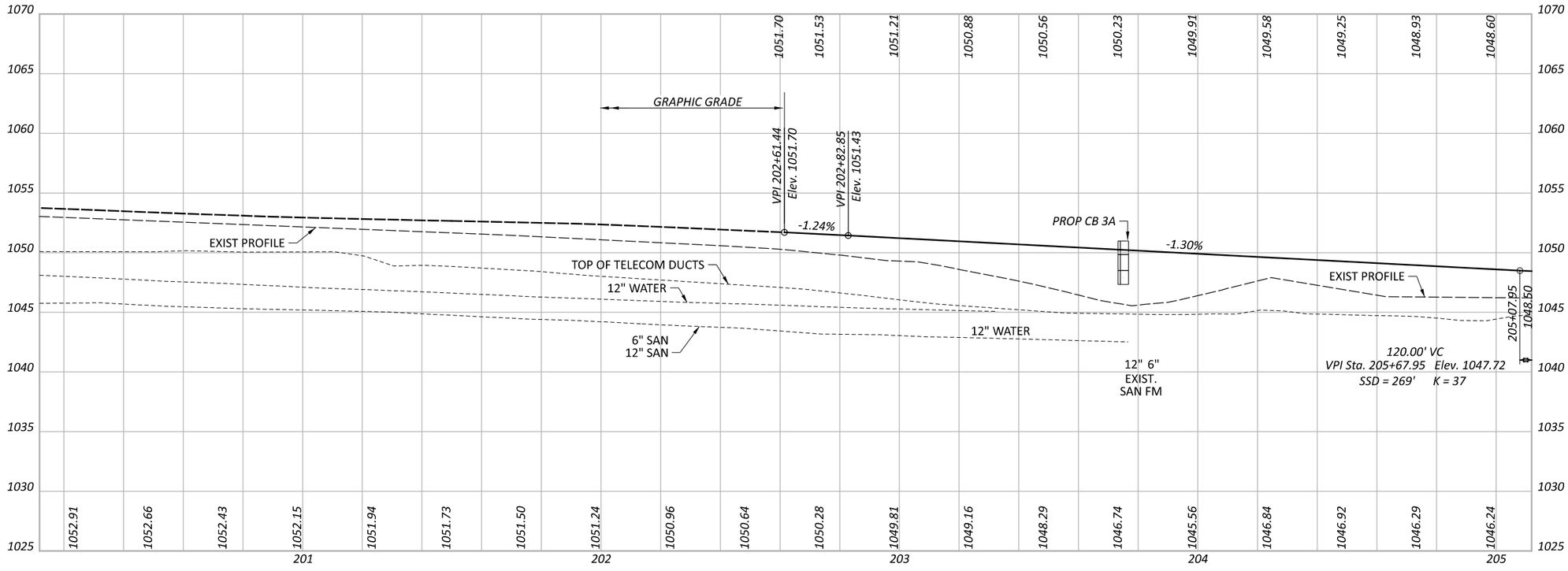
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

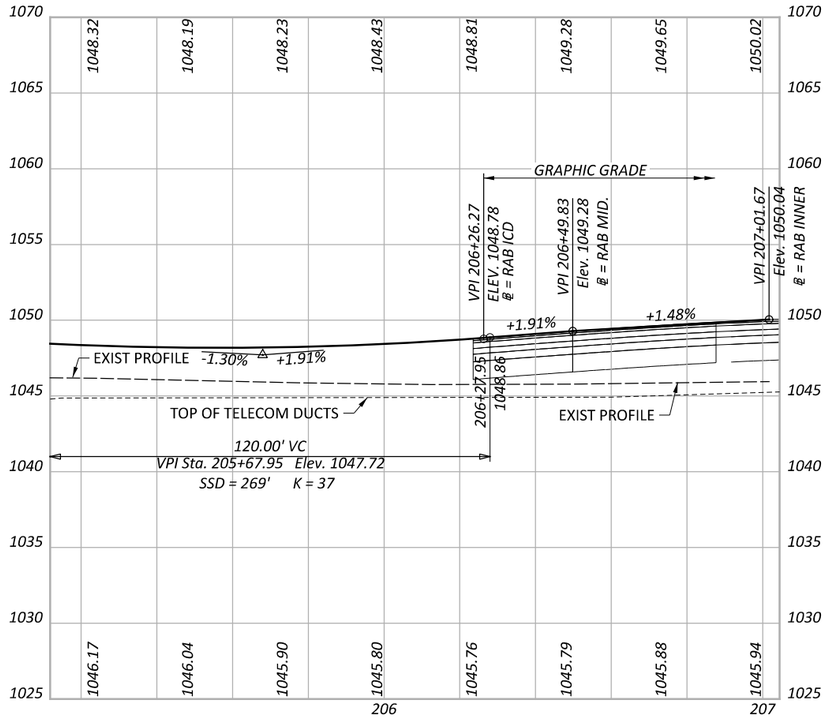
DESIGNER
DPF

REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 114 | TOTAL 246





PROFILES

SR 435 - ROUNDABOUT APPROACH (WEST)

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER: DPF

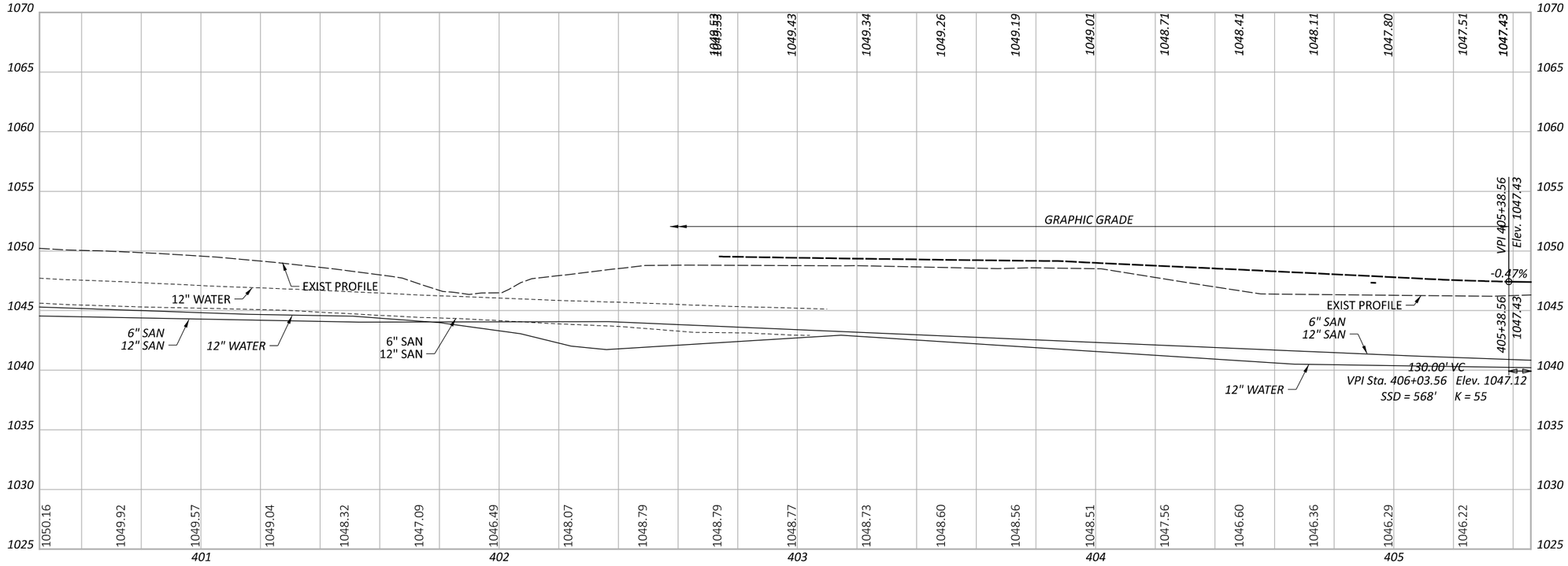
REVIEWER: DCJ 05/10/24

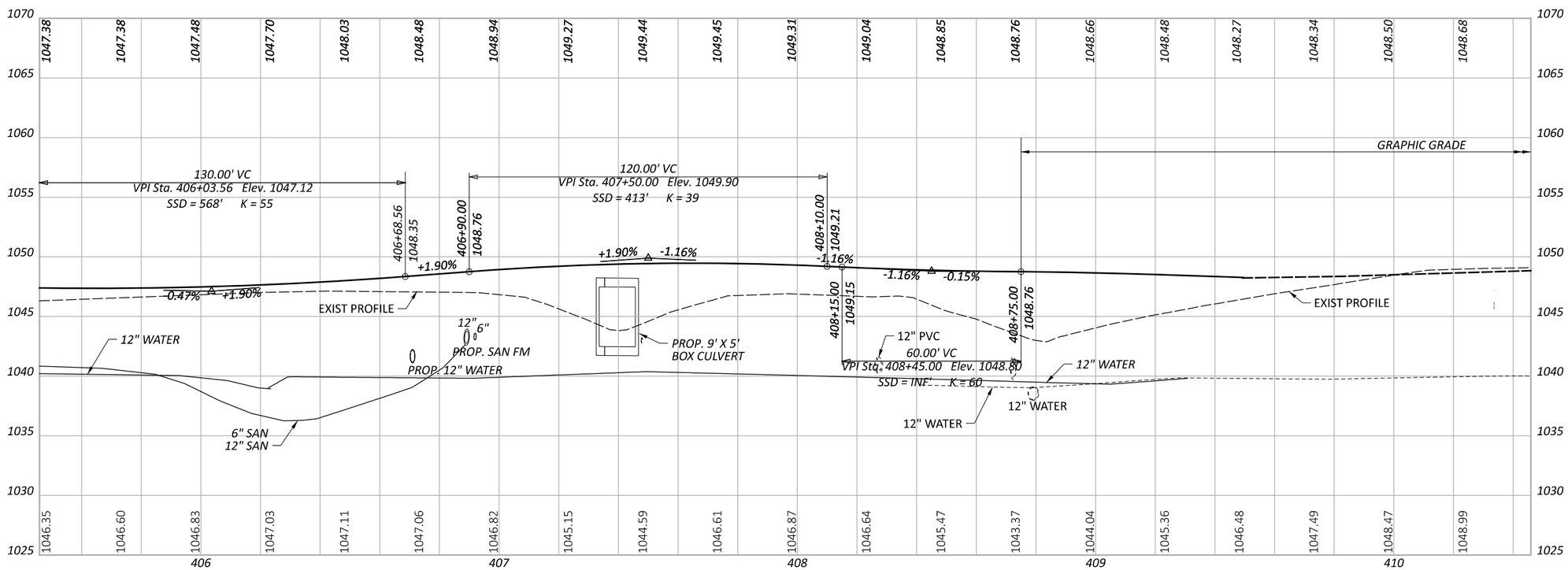
PROJECT ID: 117955

SHEET: P. 115 TOTAL: 246

FAY-435-1.52

MODEL: Profile - West RAB Approach - Profile [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:34:04 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\V400-Engineering\Roadway\Sheets\BU-5\117955_GF003.dgn





PROFILES

SR 435 - ROUNDABOUT BYPASS LANE (WEST)

DESIGN AGENCY

Palmer ENGINEERING

8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER	DPF
REVIEWER	DCJ 05/10/24
PROJECT ID	117955
SHEET	P. 116
TOTAL	246

FAY-435-1.52

MODEL: Profile - West SR435 Bypass [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:34:05 PM USER: dan-f
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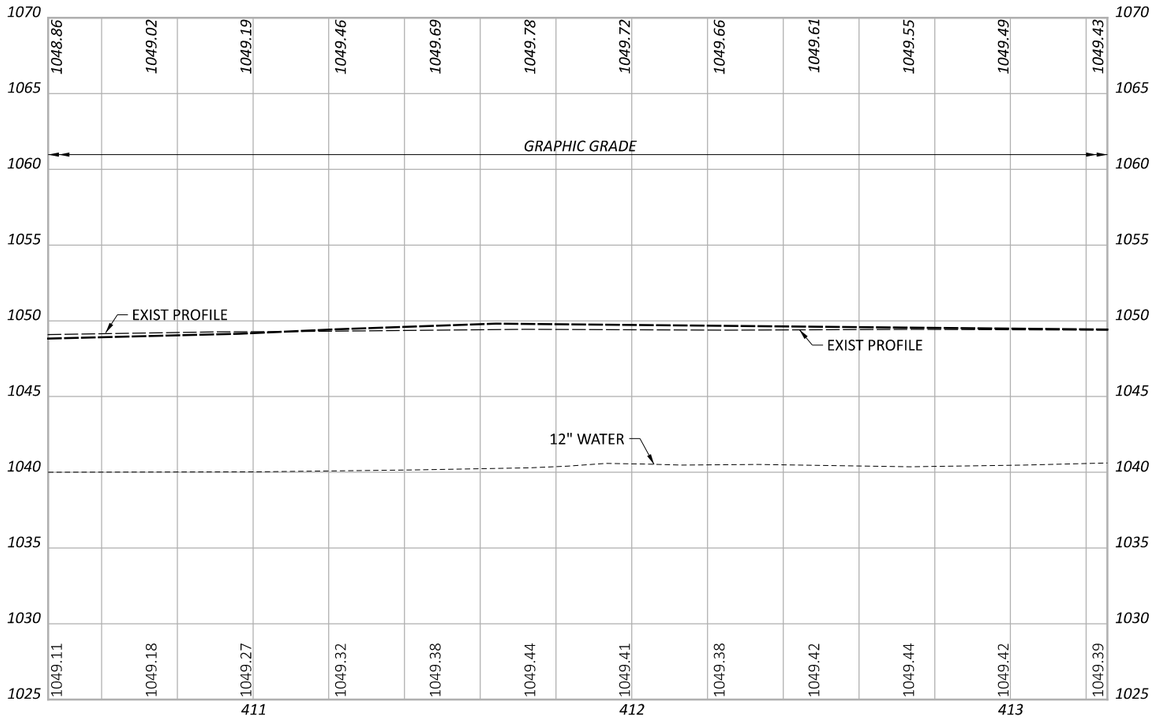

FAY-435-1.52

MODEL: Profile - West SR435 Bypass -2 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:34:07 PM USER: dan-f
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PROFILES

SR 435 - ROUNDABOUT BYPASS LANE (WEST)

DESIGN AGENCY

Palmer ENGINEERING

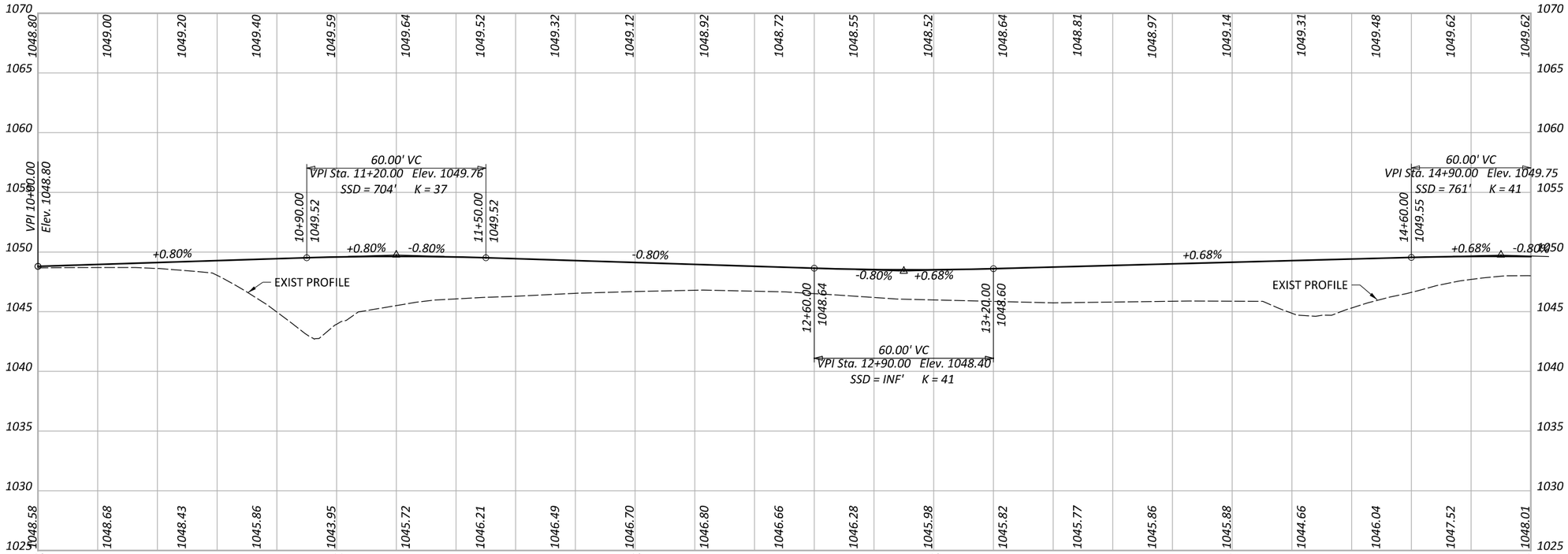
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

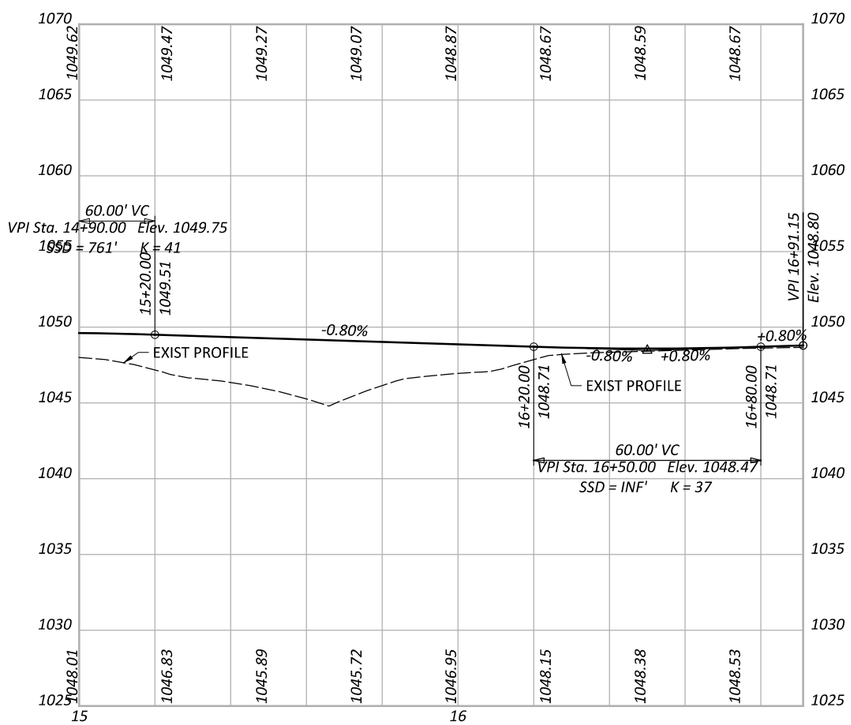
DESIGNER
DPF

REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 117 TOTAL 246





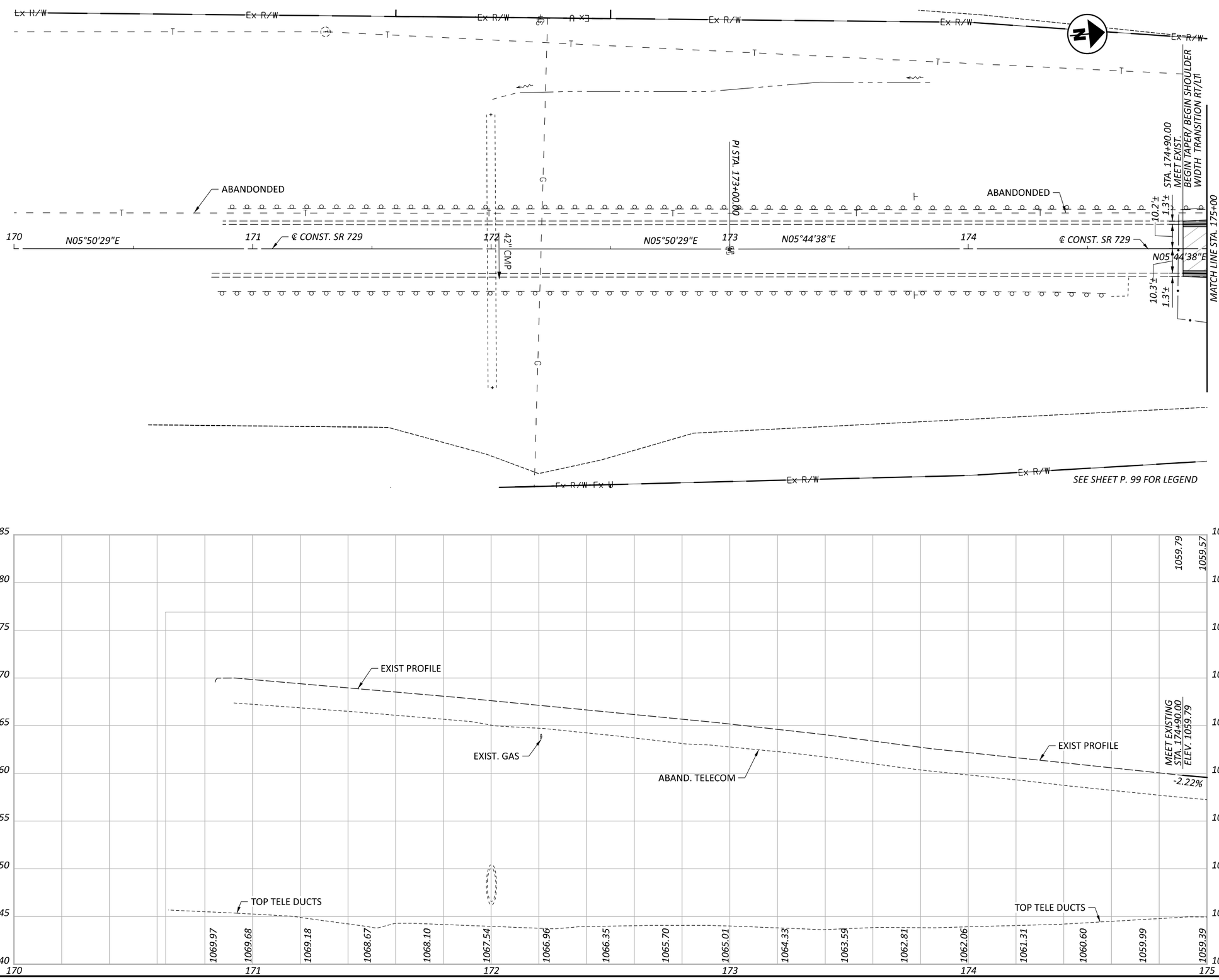
PROFILES
SR 435 - ROUNDABOUT I.C.D.

FAY-435-1.52

MODEL: RAB ICD - Profile [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:34:07 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\Roadway\Sheets\BU-5\117955_GF003.dgn

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER
DPF
REVIEWER
DCJ 05/10/24
PROJECT ID
117955
SHEET P. 118 TOTAL 246



HORIZONTAL
SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
S.R. 729 (RAB SOUTH) STA TO STA

FAY-435-1.52

MODEL: CLP_SR729_SOUTH - SR729 Plan 1 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:34:19 PM USER: dan-f
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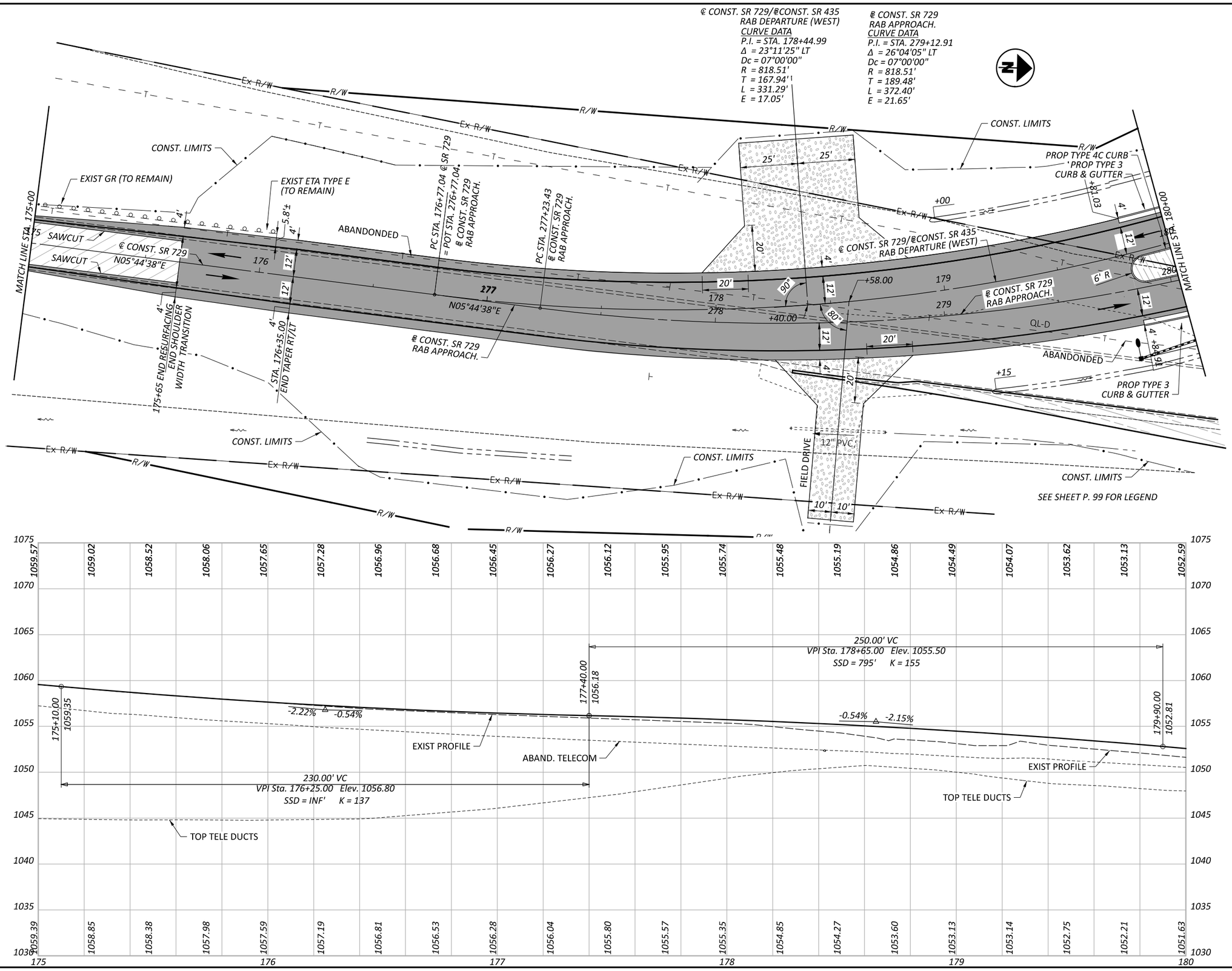
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER
DPF

REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 119 TOTAL 246



PLAN AND PROFILE
S.R. 729 (RAB SOUTH) STA TO STA

FAY-435-1.52

MODEL: CLP_SR729_SOUTH - SR729 Plan 2 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:34:21 PM USER: dan-f
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DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

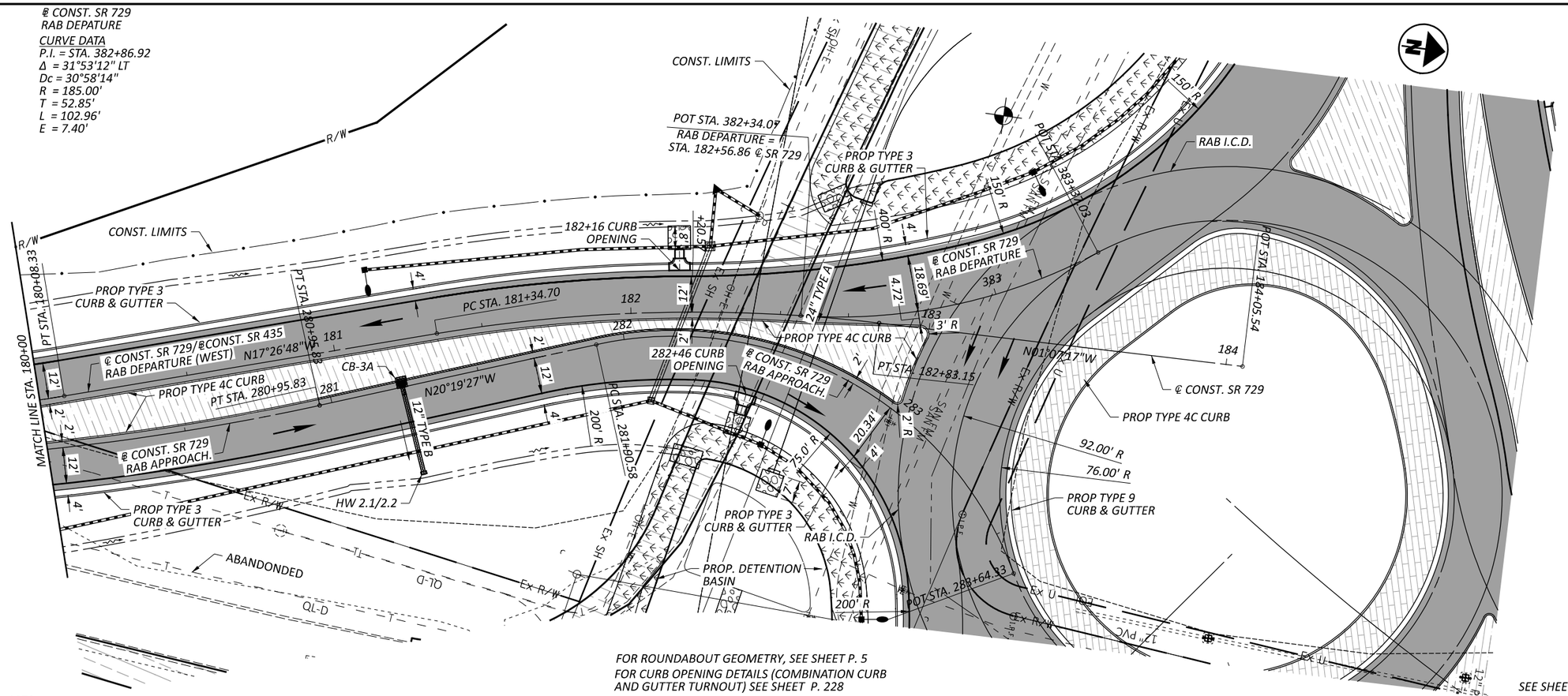
DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 120 TOTAL 246

℄ CONST. SR 729
CURVE DATA
P.I. = STA. 182+09.43
Δ = 16°19'30" RT
Dc = 10°59'50"
R = 521.00'
T = 74.73'
L = 148.45'
E = 5.33'

℄ CONST. SR 729
RAB DEPATURE
CURVE DATA
P.I. = STA. 382+86.92
Δ = 31°53'12" LT
Dc = 30°58'14"
R = 185.00'
T = 52.85'
L = 102.96'
E = 7.40'

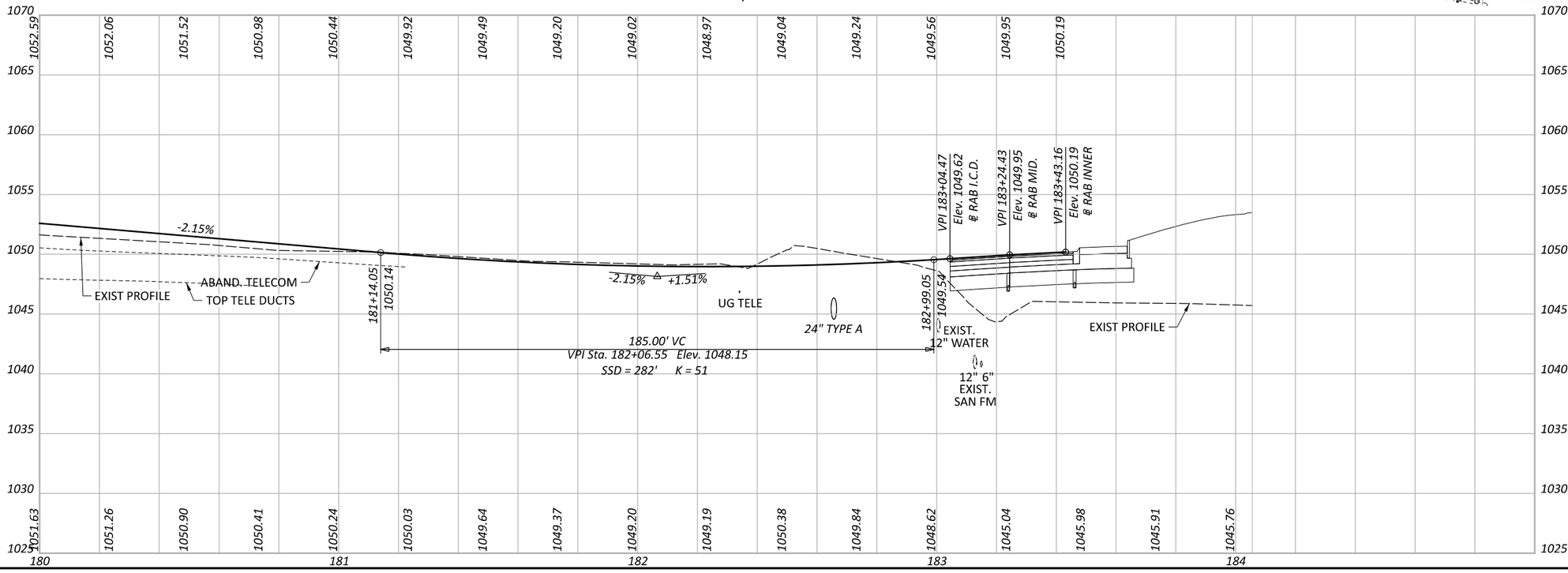
℄ CONST. SR 729
RAB APPROACH.
CURVE DATA
P.I. = STA. 279+12.91
Δ = 26°04'05" LT
Dc = 07°00'00"
R = 818.51'
T = 189.48'
L = 372.40'
E = 21.65'

℄ CONST. SR 729
RAB APPROACH.
CURVE DATA
P.I. = STA. 282+96.27
Δ = 82°16'27" RT
Dc = 47°21'07"
R = 121.00'
T = 105.69'
L = 173.75'
E = 39.66'



FOR ROUNDABOUT GEOMETRY, SEE SHEET P. 5
FOR CURB OPENING DETAILS (COMBINATION CURB AND GUTTER TURNOUT) SEE SHEET P. 228

SEE SHEET P. 99 FOR LEGEND



PLAN AND PROFILE
S.R. 729 (RAB SOUTH) STA TO STA

DESIGN AGENCY	Palmer ENGINEERING 8350 E. KEMPER RD. SUITE B CINCINNATI,OH 45249 513-469-1600
DESIGNER	DPF
REVIEWER	DCJ 05/10/24
PROJECT ID	117955
SHEET	P. 121
TOTAL	246

FAY-435-1.52

MODEL: CLP_SR729_SOUTH - SR729 Plan 3 [Sheet] PAPERSIZE: 17X11 (in.) DATE: 5/30/2024 TIME: 12:12:44 PM USER: dan-f
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MODEL: SR729 RAB Approach - Profile [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:34:38 PM USER: dan-f
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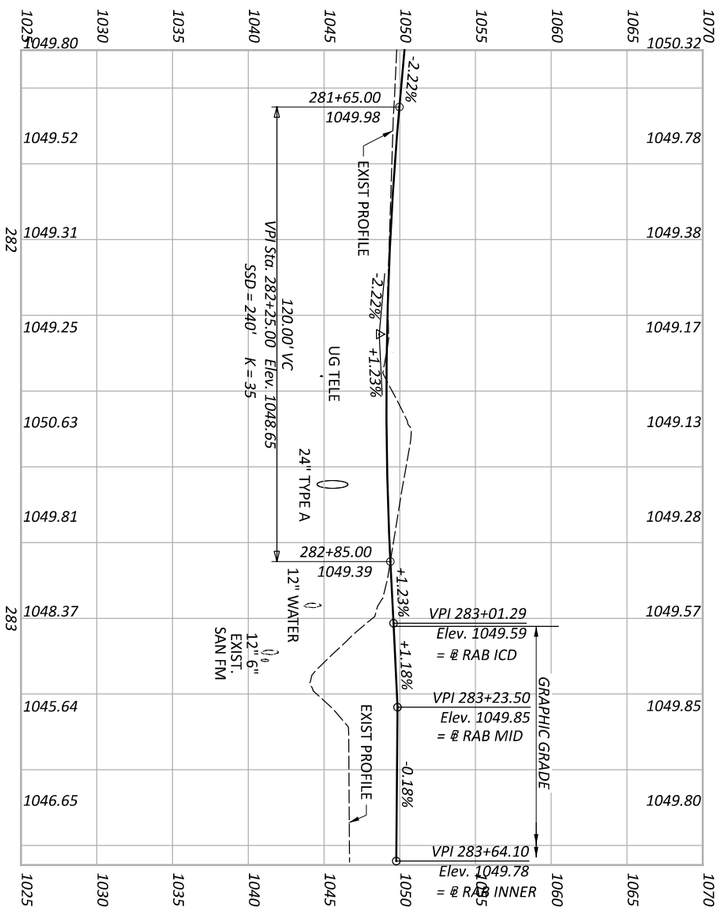
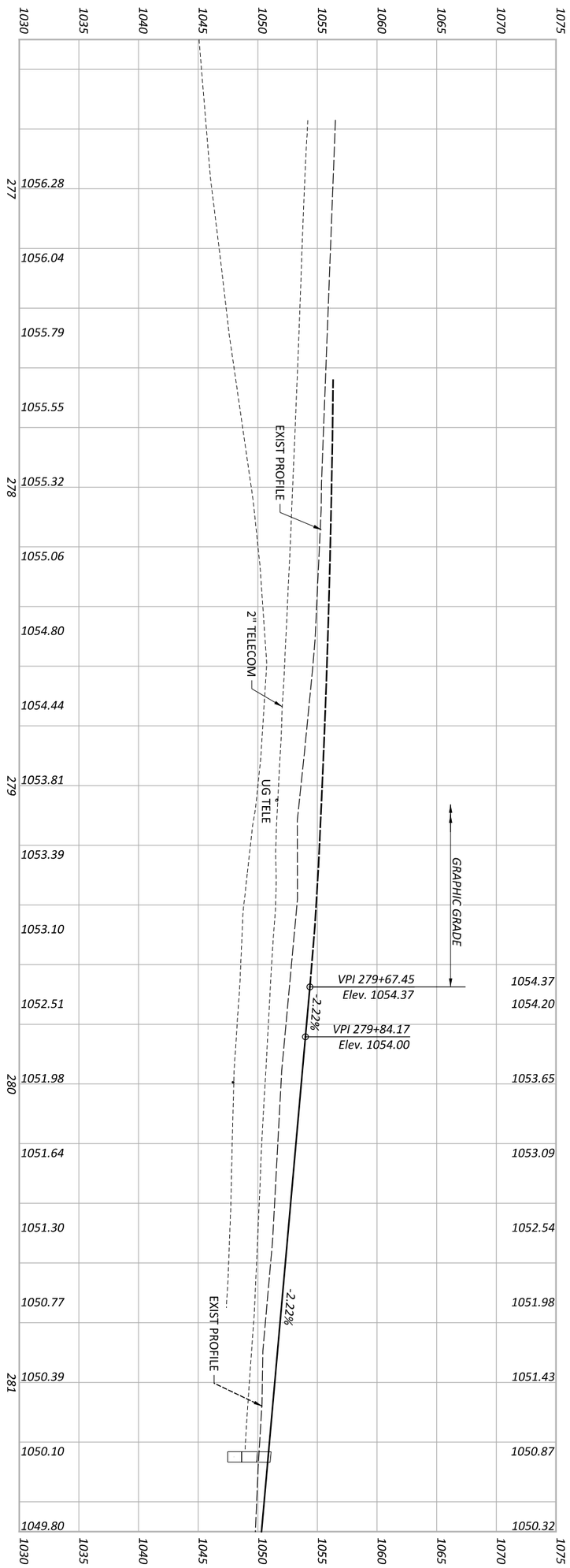
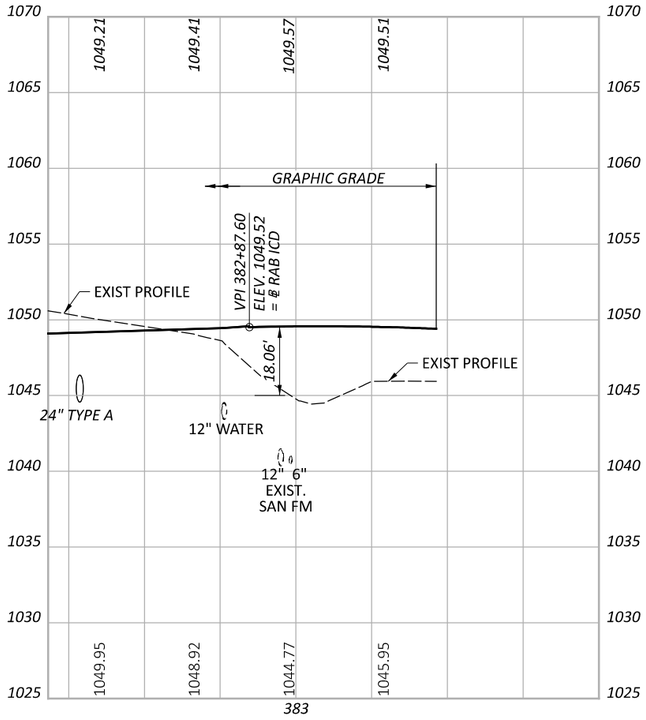




SHEET P. 122 TOTAL 246	PROJECT ID 117955	REVIEWER DCJ 05/10/24	DESIGNER DPF	DESIGN AGENCY Palmer ENGINEERING 8350 E. KEMPER RD. SUITE B CINCINNATI,OH 45249 513-469-1600

PROFILES
SR 729 - ROUNDABOUT APPROACH



PROFILES

SR 729 - ROUNDABOUT DEPARTURE

DESIGN AGENCY

Palmer ENGINEERING

8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER
DPF

REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 123 | TOTAL 246

FAY-435-1.52

MODEL: SR729 Departure Profile [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:34:39 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\Roadway\Sheets\BU-5\117955_GF010.dgn

℄ CONST. BLUEGRASS BLVD. RAB APPROACH.

CURVE DATA
P.I. = STA. 384+63.30
Δ = 46°15'12" LT
Dc = 38°11'50"
R = 150.00'
T = 64.06'
L = 121.09'
E = 13.11'

CURVE DATA
P.I. = STA. 386+91.11
Δ = 24°16'41" LT
Dc = 07°12'58"
R = 794.00'
T = 170.78'
L = 336.44'
E = 18.16'

℄ CONST. BLUEGRASS BLVD.

CURVE DATA
P.I. = STA. 186+20.39
Δ = 31°17'50" LT
Dc = 06°00'00"
R = 954.93'
T = 267.49'
L = 521.62'
E = 36.76'

℄ CONST. BLUEGRASS BLVD. RAB DEPARTURE

CURVE DATA
P.I. = STA. 284+65.93
Δ = 28°43'48" RT
Dc = 17°37'46"
R = 325.00'
T = 83.23'
L = 162.97'
E = 10.49'

SEE SHEET P. 99 FOR LEGEND
FOR ROUNDABOUT GEOMETRY, SEE SHEET P. 5
FOR CURB OPENING DETAILS (COMBINATION CURB AND GUTTER TURNOUT) SEE SHEET P. 228

℄ CONST. SR 435 W.B. BYPASS LANE

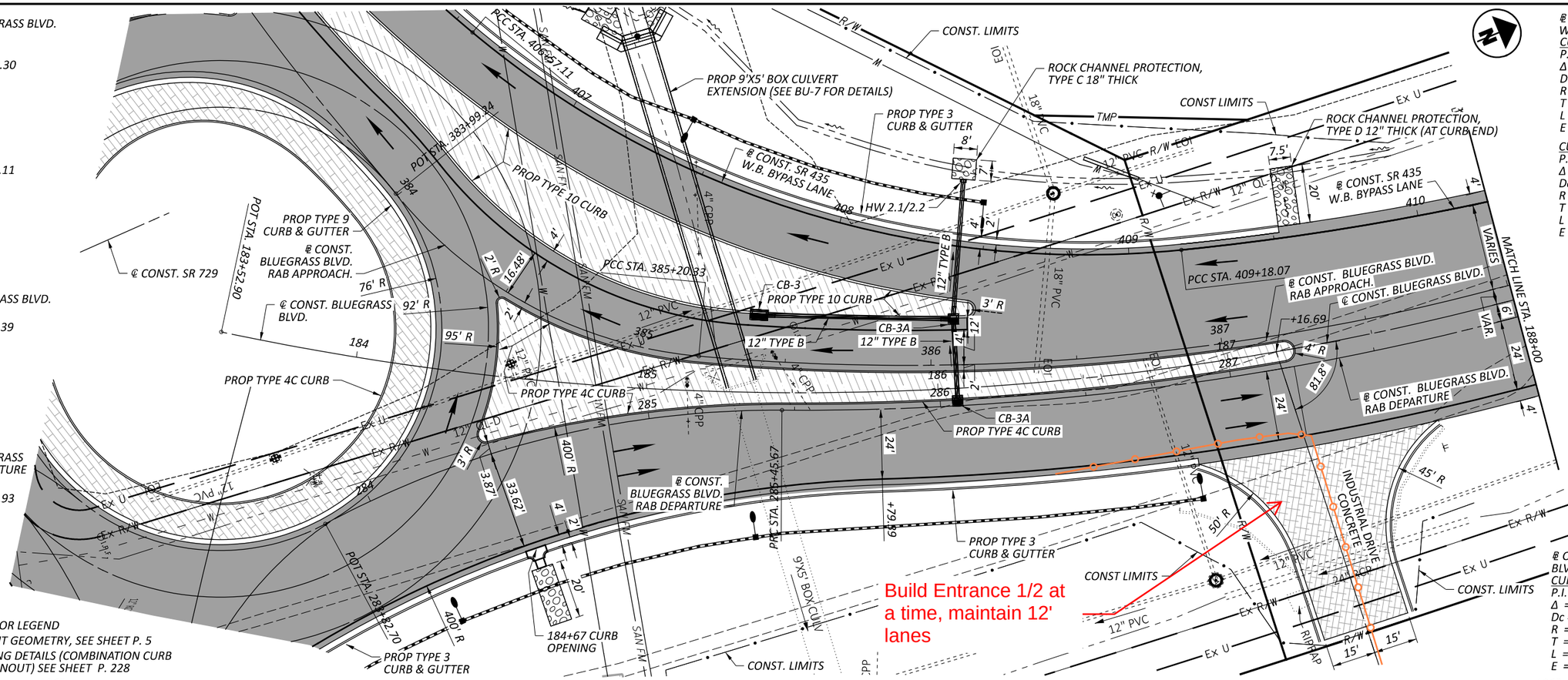
CURVE DATA
P.I. = STA. 407+94.97
Δ = 45°40'07" LT
Dc = 17°30'01"
R = 327.40'
T = 137.86'
L = 260.96'
E = 27.84'

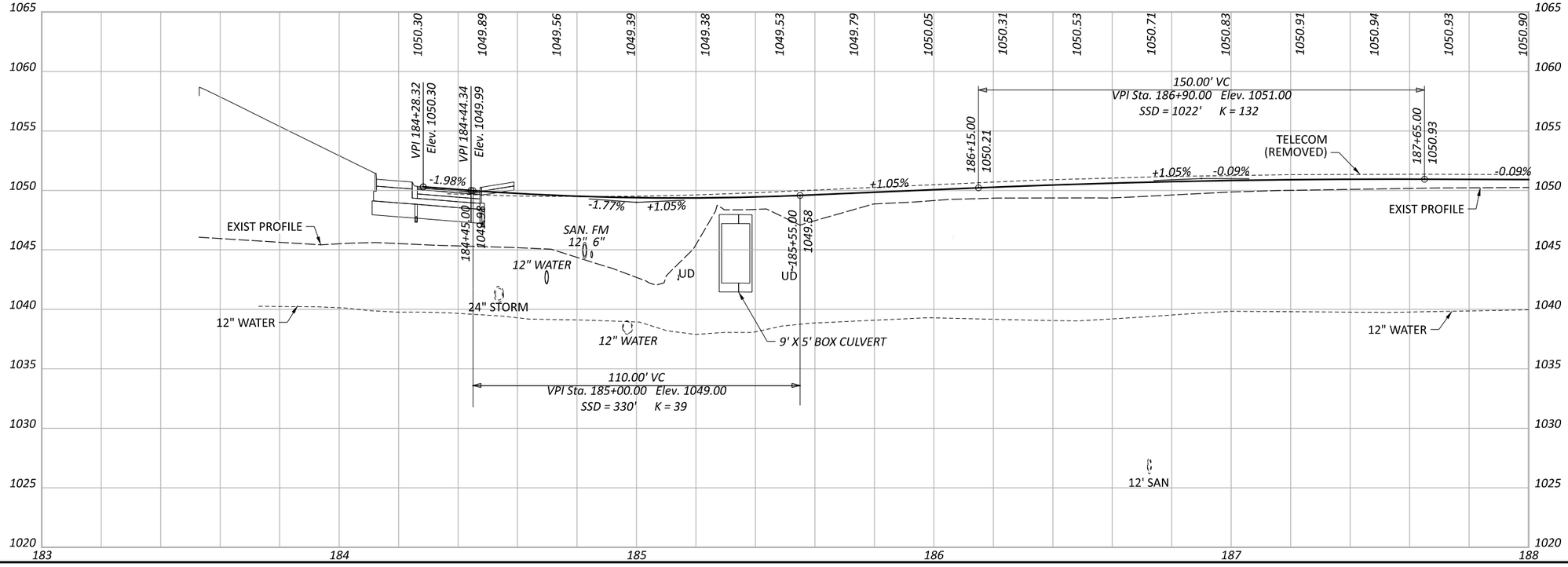
CURVE DATA
P.I. = STA. 410+34.87
Δ = 13°56'49" LT
Dc = 06°00'00"
R = 954.93'
T = 116.80'
L = 232.45'
E = 7.12'

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
BLUEGRASS BLVD. (RAB NORTH) STA 183+52.09 TO STA 188+00

Build Entrance 1/2 at a time, maintain 12' lanes





DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD. SUITE B CINCINNATI, OH 45249 513-469-1600
DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 124 TOTAL: 246

FAY-435-1.52

MODEL: CLP_BLUEGRASS - Plan 1 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/30/2024 TIME: 1:10:00 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\Roadway\Sheets\BU-5\117955_GP020.dgn

℄ CONST. BLUEGRASS BLVD.

CURVE DATA
P.I. = STA. 186+20.39
Δ = 31°17'50" LT
Dc = 06°00'00"
R = 954.93'
T = 267.49'
L = 521.62'
E = 36.76'

CURVE DATA
P.I. = STA. 190+14.58
Δ = 02°06'02" LT
Dc = 00°45'00"
R = 7,639.27'
T = 140.06'
L = 280.08'
E = 1.28'

℄ CONST. SR 435 W.B. BYPASS LANE

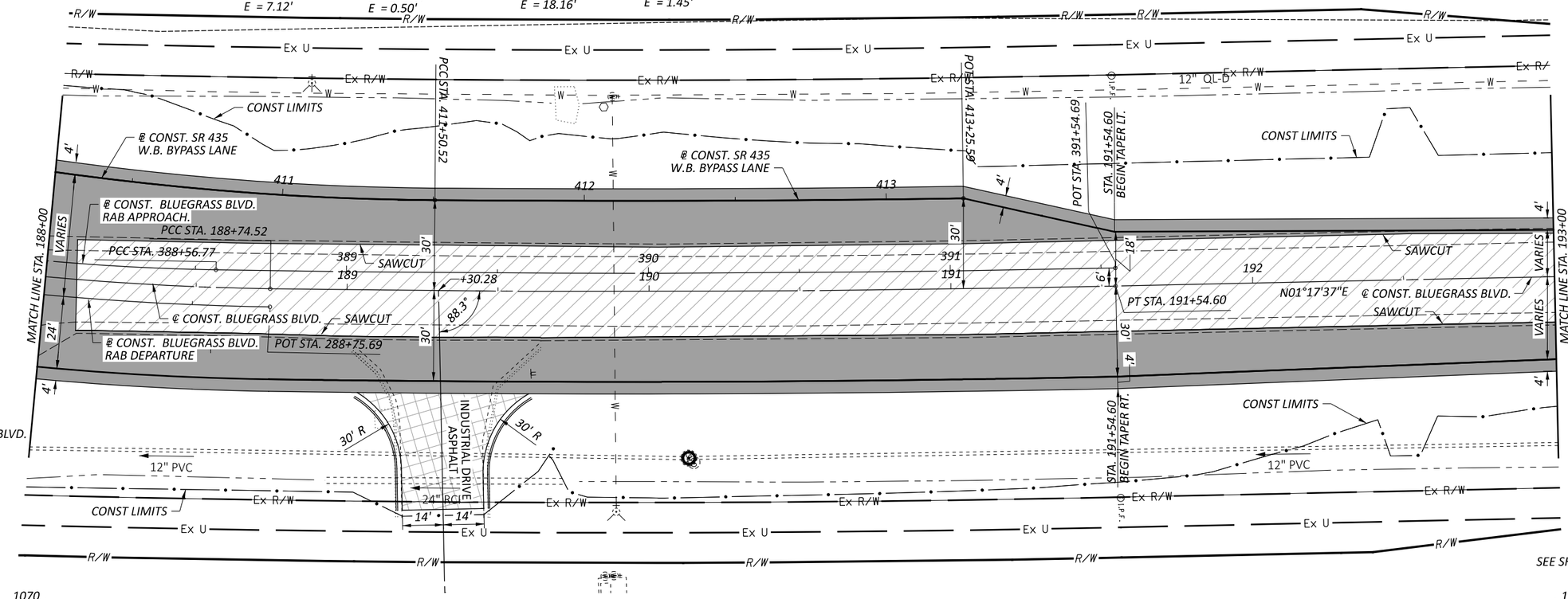
CURVE DATA
P.I. = STA. 410+34.87
Δ = 13°56'49" LT
Dc = 06°00'00"
R = 954.93'
T = 116.80'
L = 232.45'
E = 7.12'

CURVE DATA
P.I. = STA. 412+38.06
Δ = 01°19'06" LT
Dc = 00°45'11"
R = 7,609.27'
T = 87.54'
L = 175.07'
E = 0.50'

℄ CONST. BLUEGRASS BLVD. RAB APPROACH.

CURVE DATA
P.I. = STA. 386+91.11
Δ = 24°16'41" LT
Dc = 07°12'58"
R = 794.00'
T = 170.78'
L = 336.44'
E = 18.16'

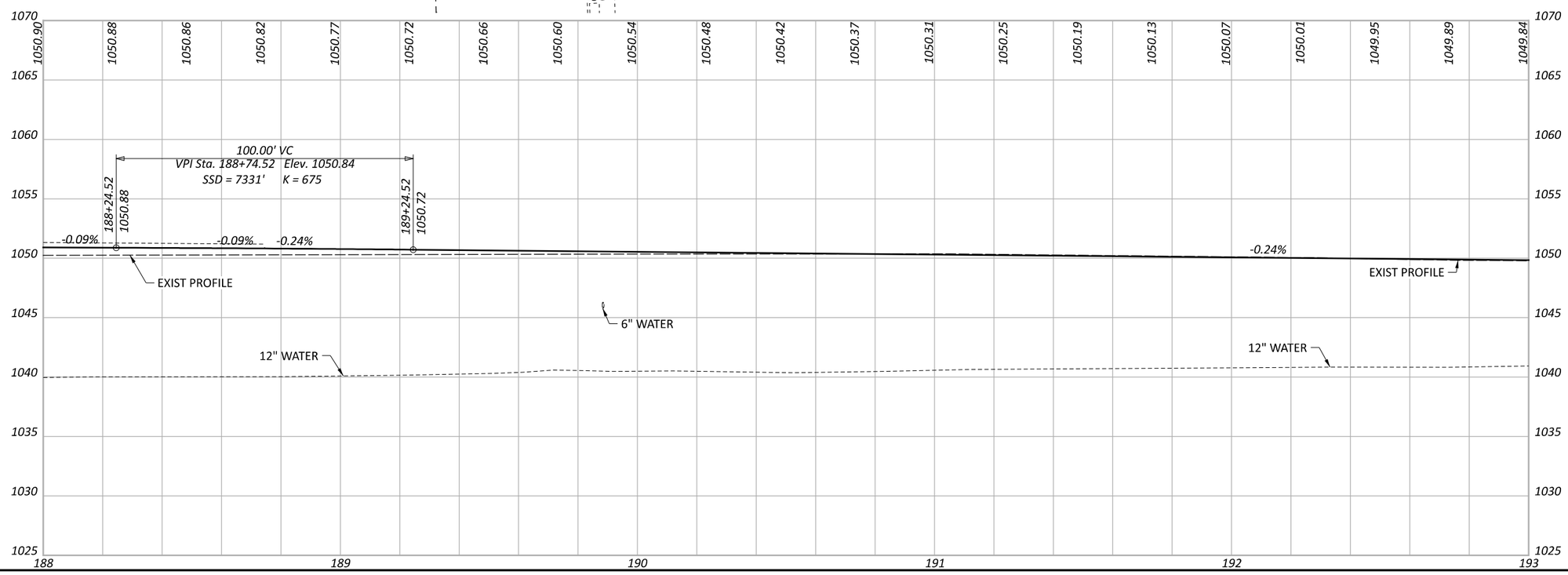
CURVE DATA
P.I. = STA. 390+05.75
Δ = 02°14'10" LT
Dc = 00°45'02"
R = 7,633.27'
T = 148.98'
L = 297.92'
E = 1.45'



℄ CONST. BLUEGRASS BLVD. RAB DEPARTURE

CURVE DATA
P.I. = STA. 287+12.32
Δ = 19°40'41" LT
Dc = 05°57'45"
R = 960.93'
T = 166.66'
L = 330.03'
E = 14.34'

SEE SHEET P. 99 FOR LEGEND



HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
BLUEGRASS BLVD. (RAB NORTH) STA 188+00 TO STA 193+00

FAY-435-1.52

MODEL: CLP_BLUEGRASS - Plan 2 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/30/2024 TIME: 1:08:21 PM USER: dan-f
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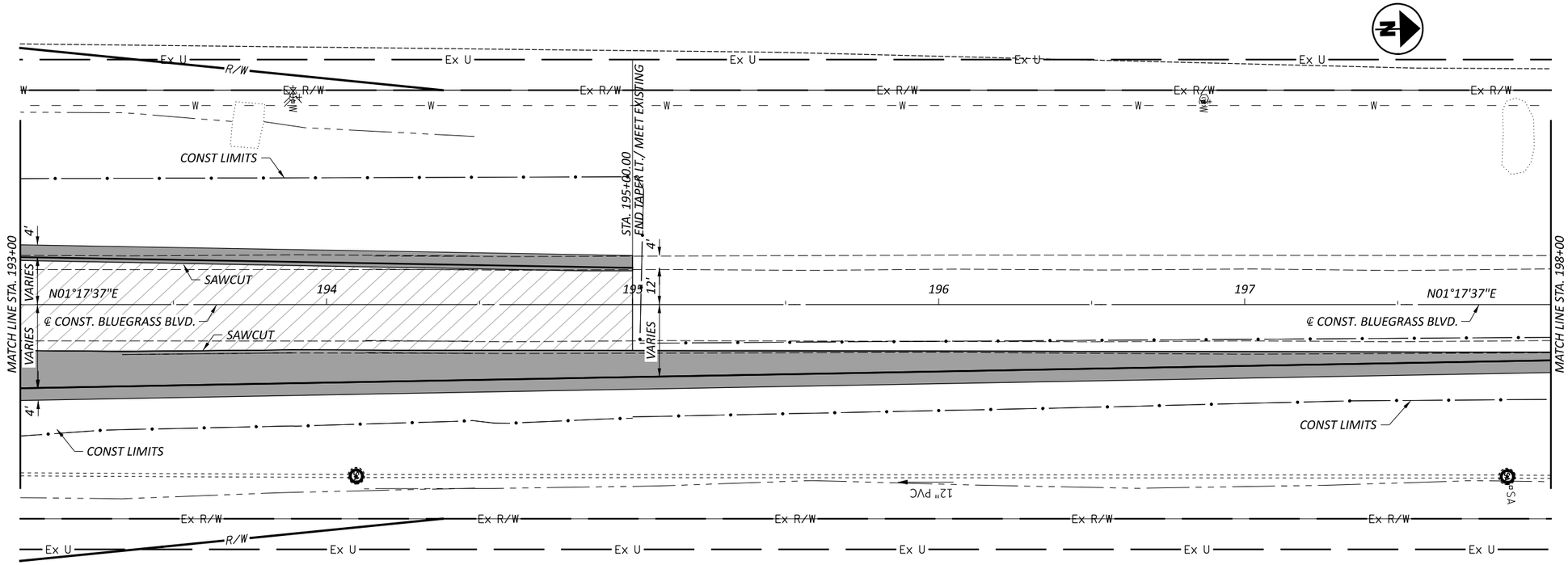
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 125 TOTAL 246



SEE SHEET P. 99 FOR LEGEND

HORIZONTAL SCALE IN FEET
0 10 20 40
40'-0"

PLAN AND PROFILE
BLUEGRASS BLVD. (RAB NORTH) STA 193+00 TO STA 198+00

DESIGN AGENCY
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SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 126 TOTAL 246

FAY-435-1.52

MODEL: CLP_BLUEGRASS - Plan 3 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:34:54 PM USER: dan-f
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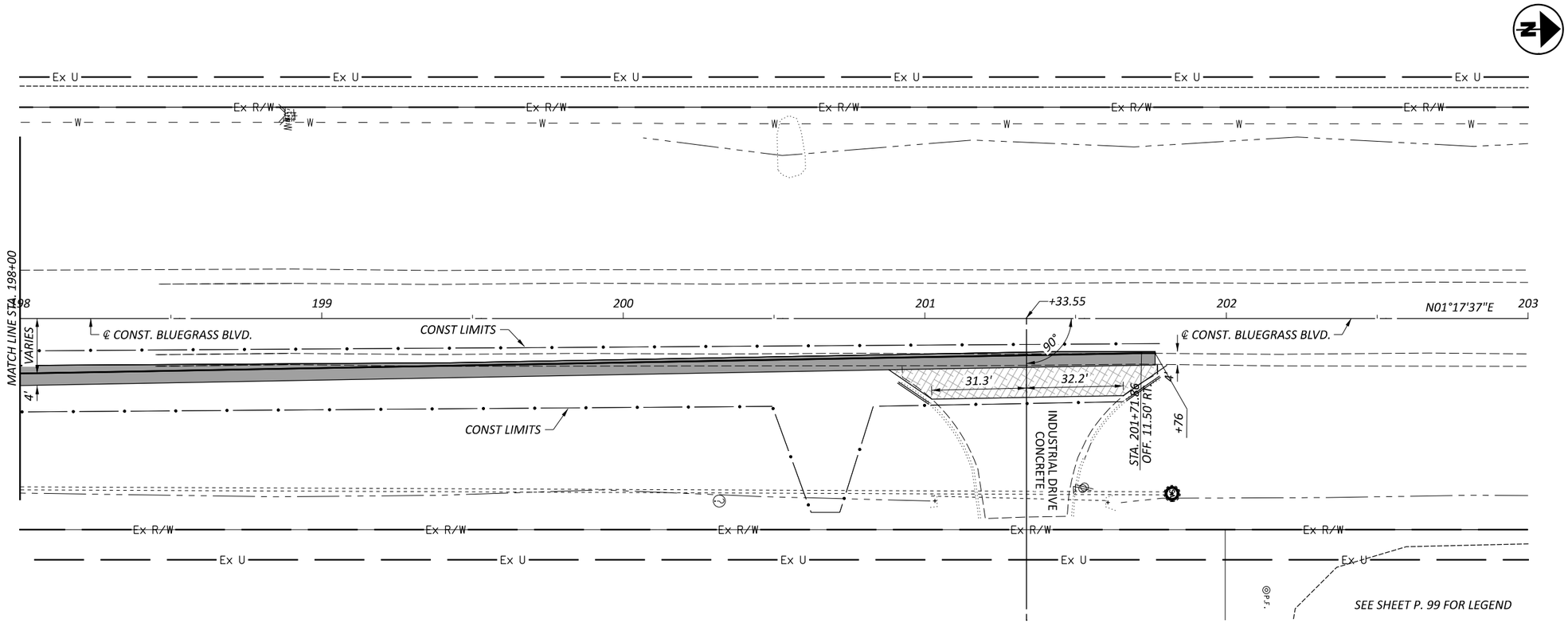

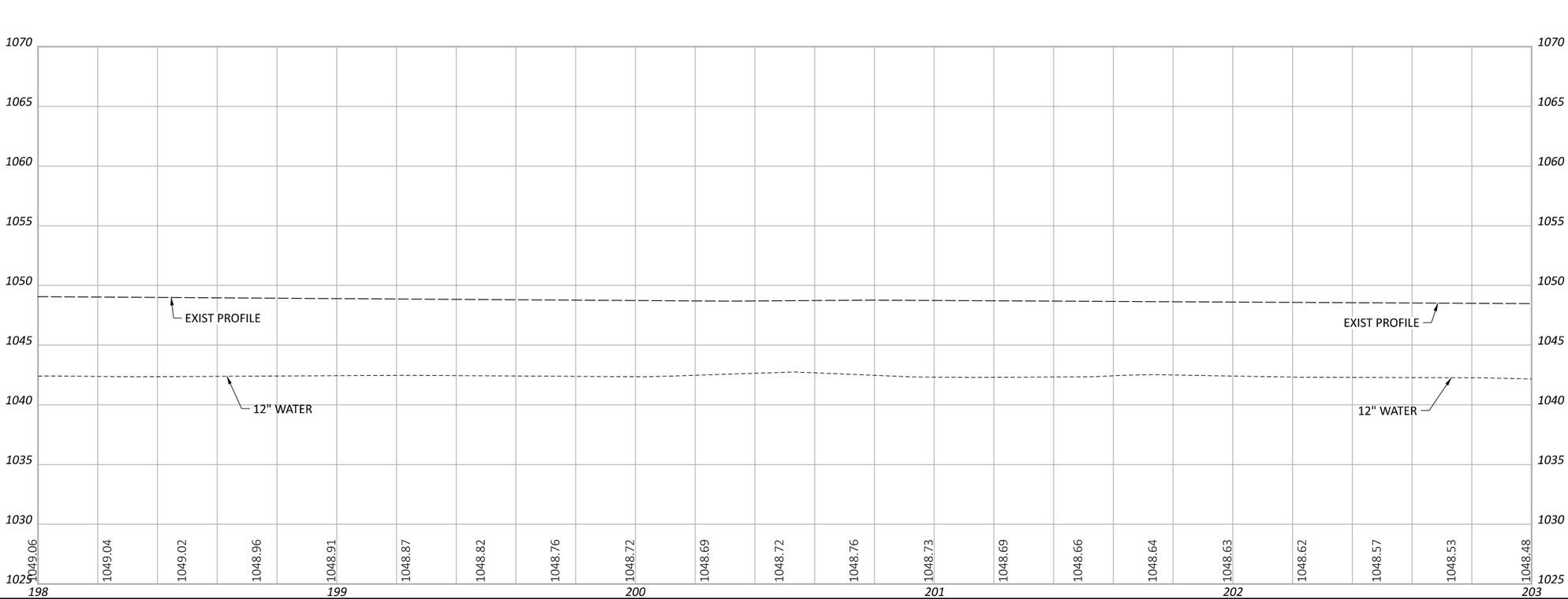

HORIZONTAL SCALE IN FEET
0 20 40' 80'

PLAN AND PROFILE
BLUEGRASS BLVD. (RAB NORTH) STA 198+00 TO STA 203+00

FAY-435-1.52

MODEL: CLP_BLUEGRASS - Plan 4 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:34:55 PM USER: dan-f
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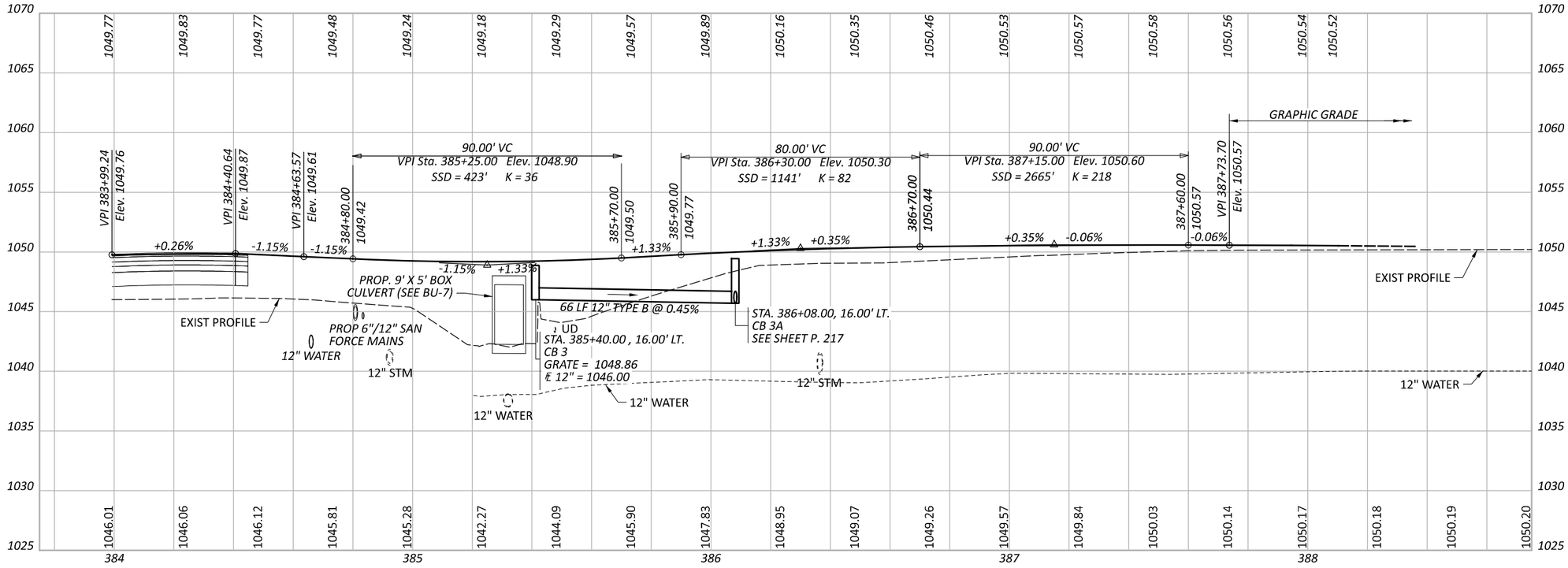
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 127 TOTAL 246



PROFILES

BLUEGRASS BLVD - ROUNDABOUT APPROACH

FAY-435-1.52

MODEL: SB Bluegrass RAB Approach - Profile [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:35:08 PM USER: dan-f
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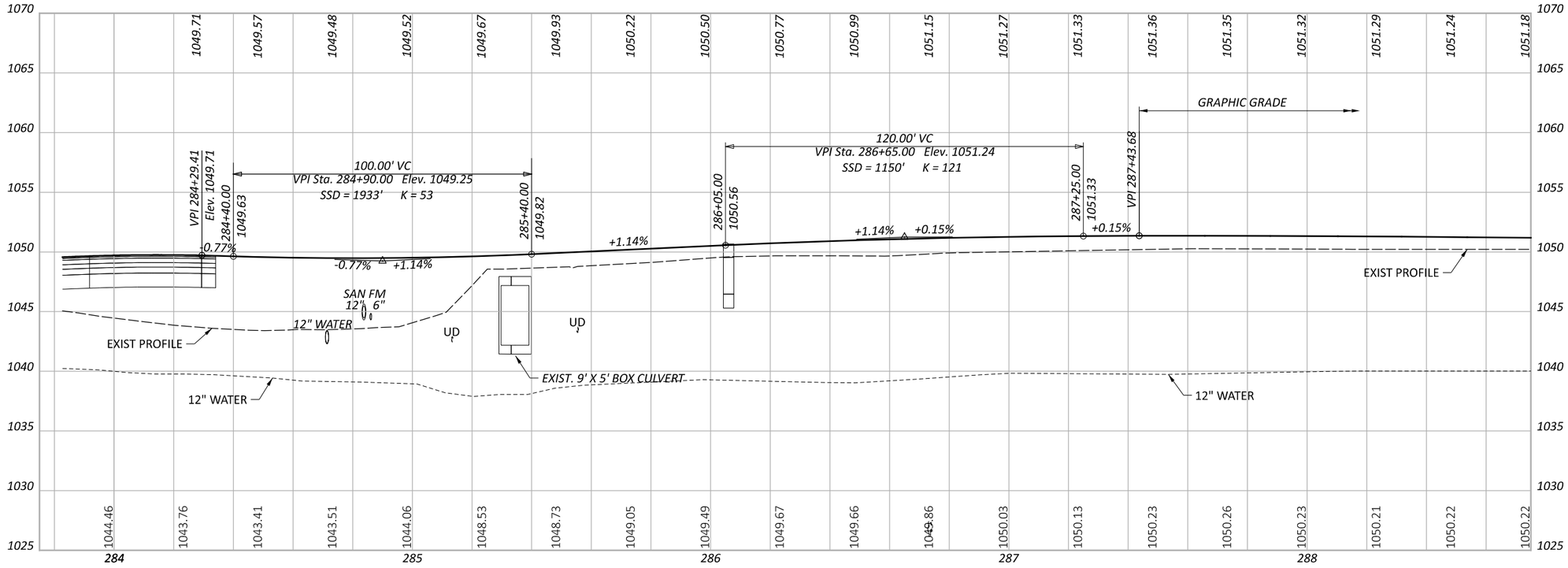
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER
DPF

REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 128 | TOTAL 246



FAY-435-1.52

MODEL: Bluegrass RAB Departure - Profile PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:35:09 PM USER: dan-f
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PROFILES
BLUEGRASS BLVD - ROUNDABOUT DEPARTURE

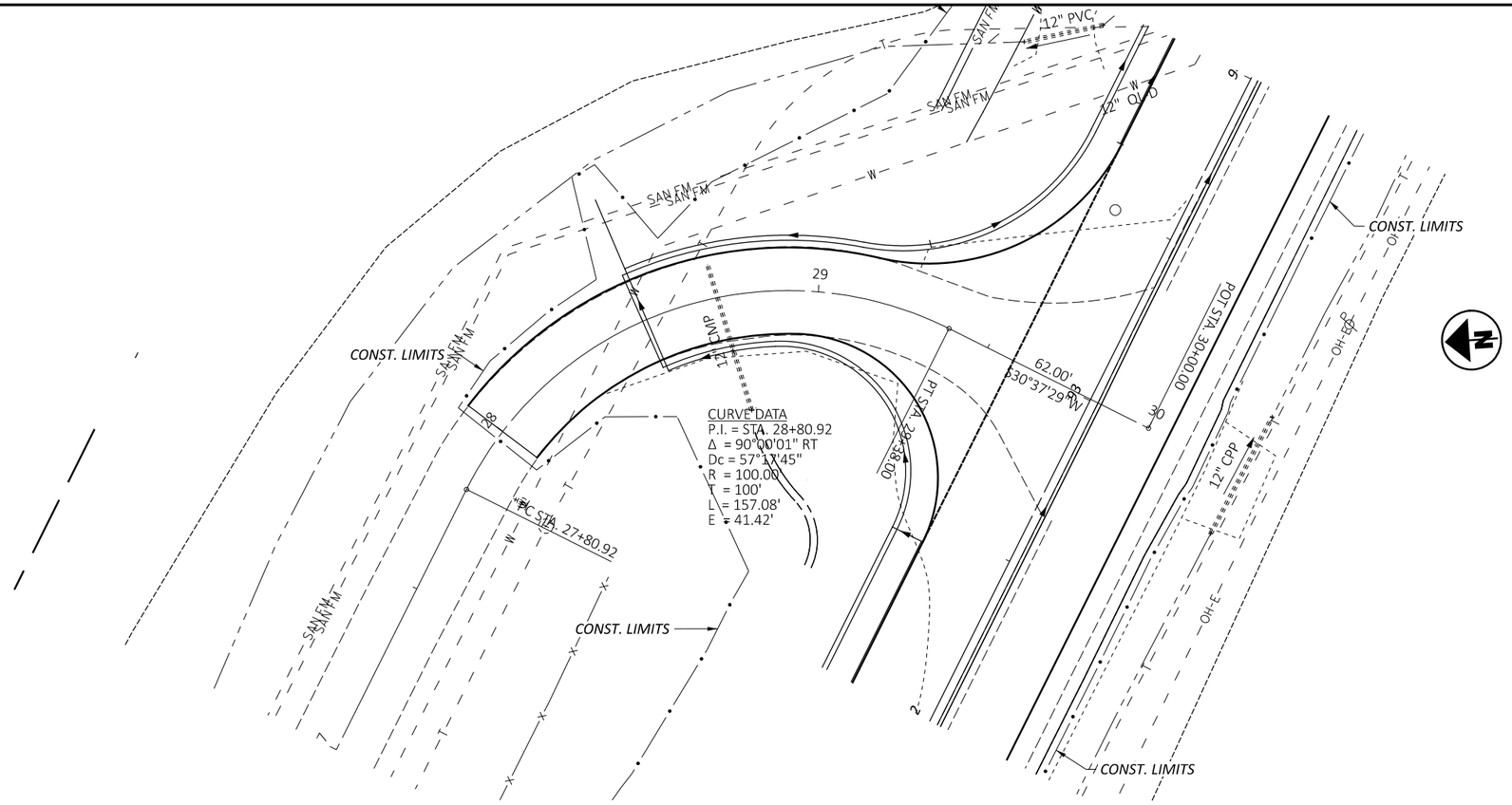
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

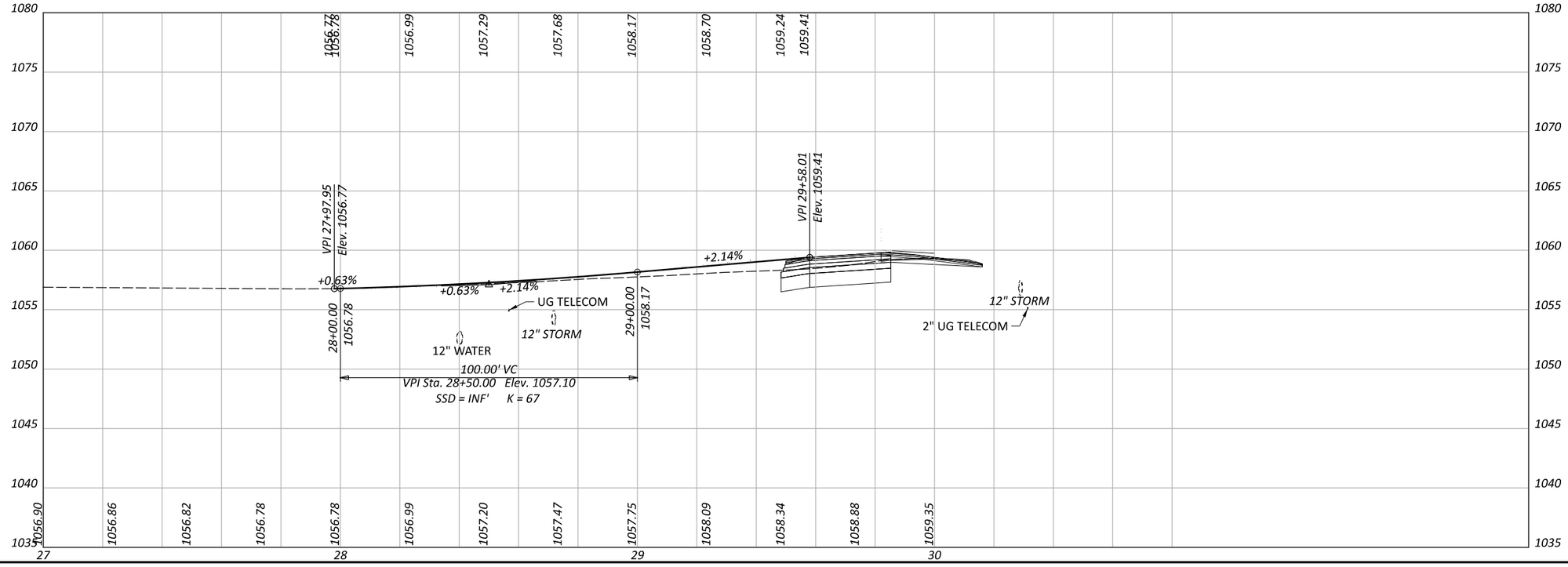
DESIGNER
DPF

REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 129 | TOTAL 246





HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
DAVIDSON - SOLLERS ROAD

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 130 TOTAL: 246

FAY-435-1.52

MODEL: CLX_DAVIDSON_SOLLARS - Plan 1 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:35:21 PM USER: dan-f
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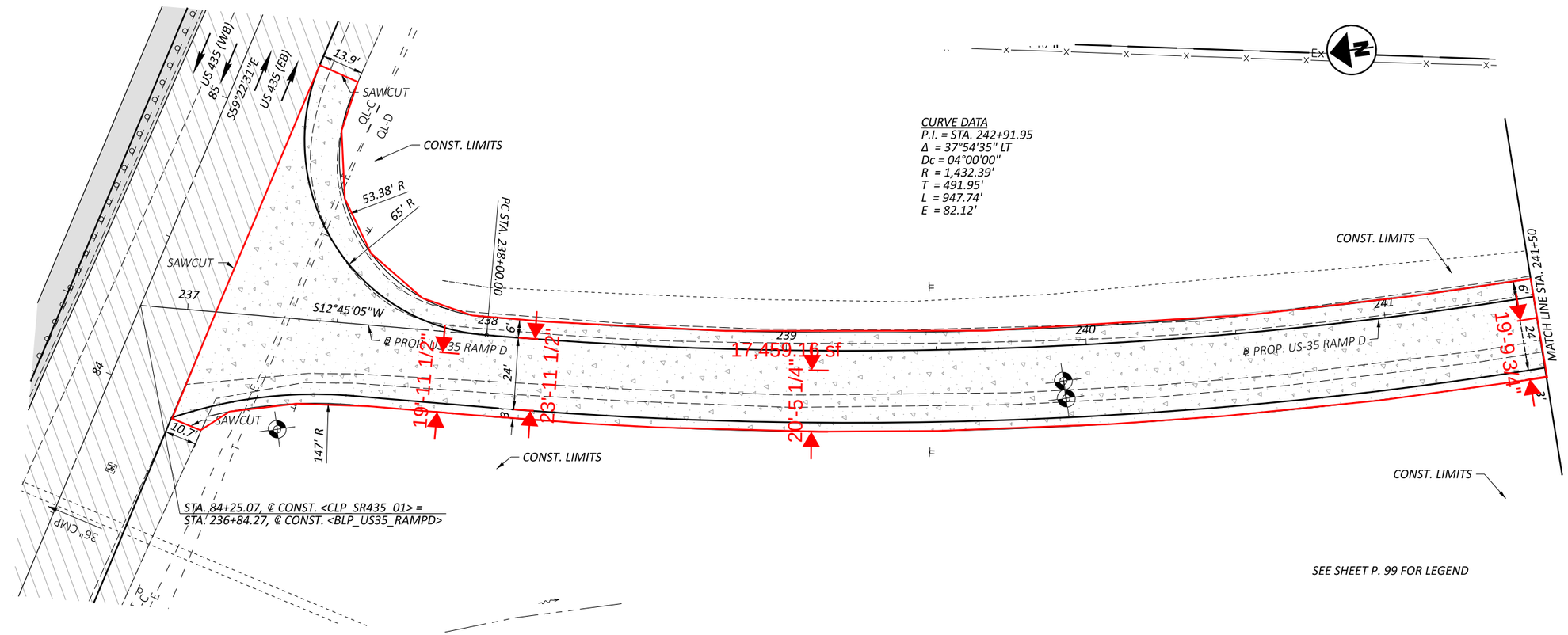

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
US35 RAMP D STA 236+84.27 TO STA 241+50

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513-469-1600

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REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 131 TOTAL: 246

FAY-435-1.52

MODEL: BLP_US35_RAMPD - US35 Ramp D Plan 1 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:35:33 PM USER: dan-f
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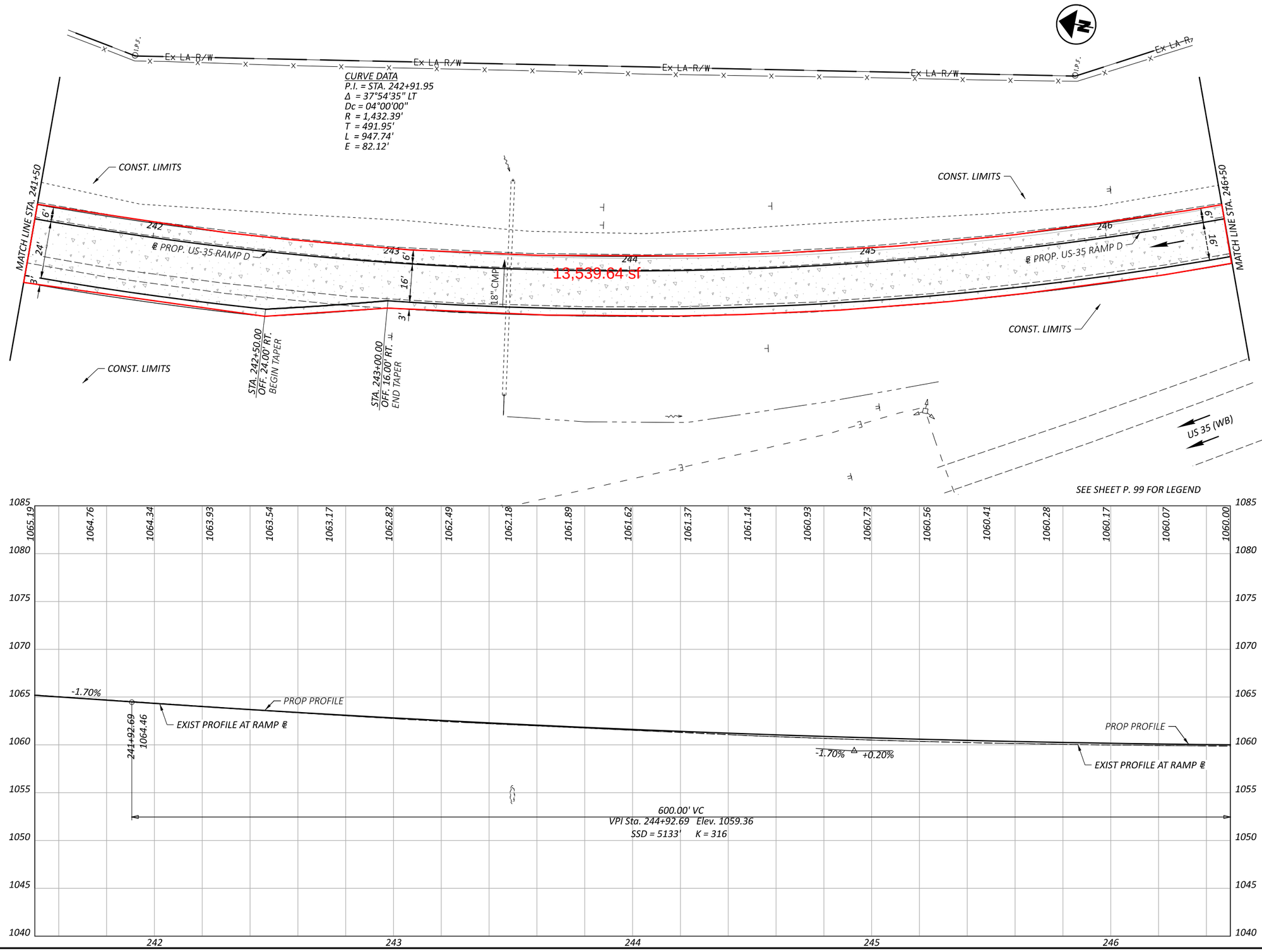

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
US35 RAMP D STA 241+50 TO STA 246+50

FAY-435-1.52

MODEL: BLP_US35_RAMPD - US35 Ramp D Plan 2 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:35:36 PM USER: dan-f
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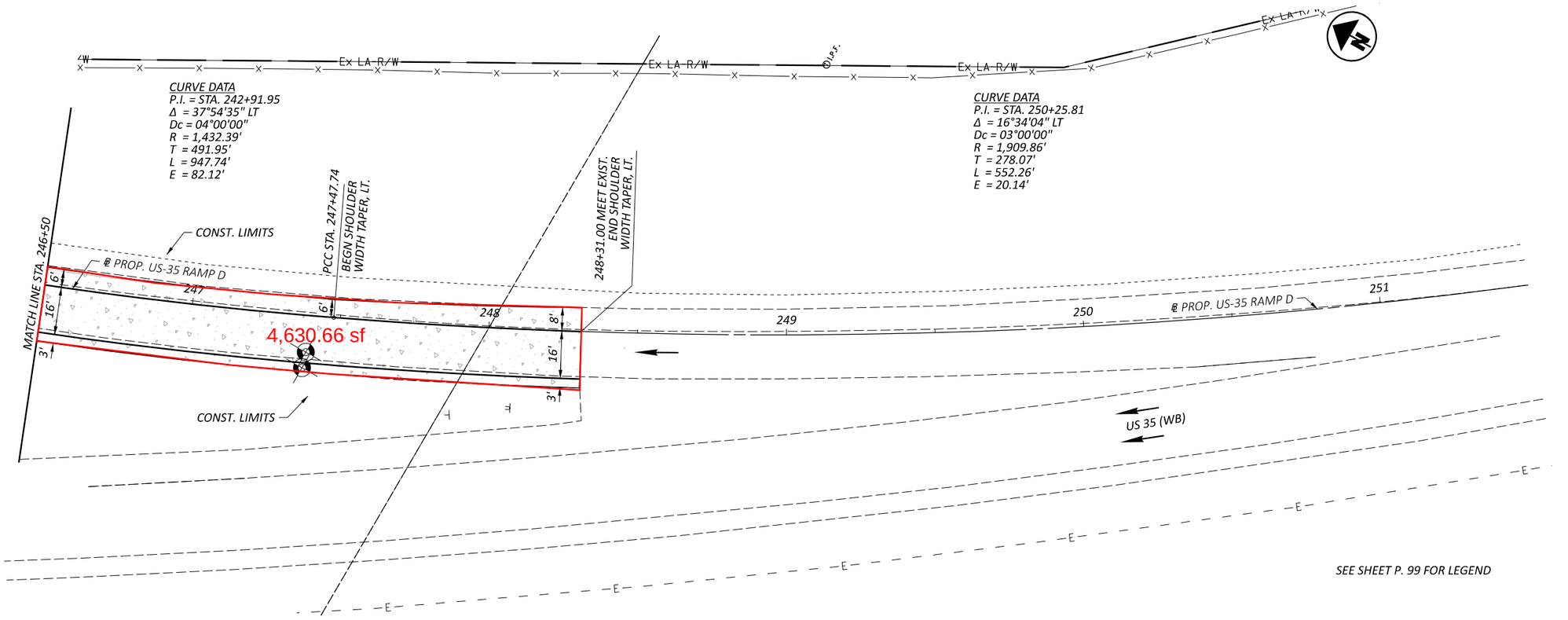
DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 132 TOTAL 246



HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
US35 RAMP D STA 246+50 TO STA 251+50

FAY-435-1.52

MODEL: BLP_US35_RAMPD - US35 Ramp D Plan 3 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:35:37 PM USER: dan-f
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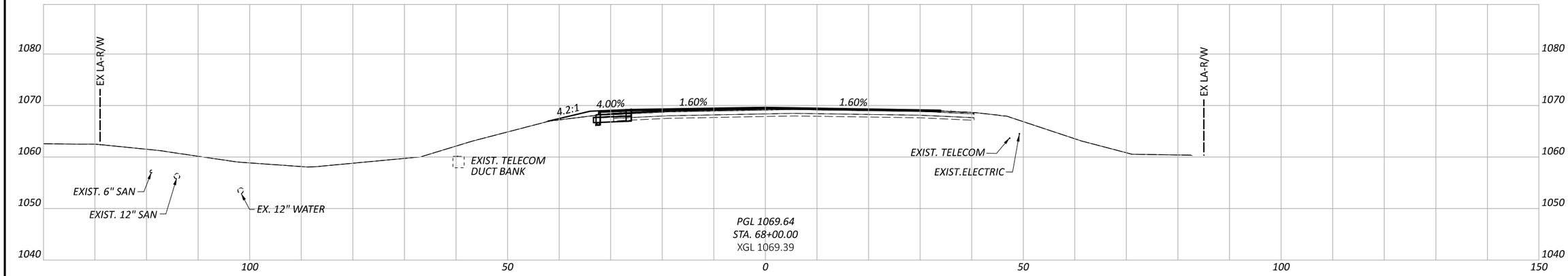
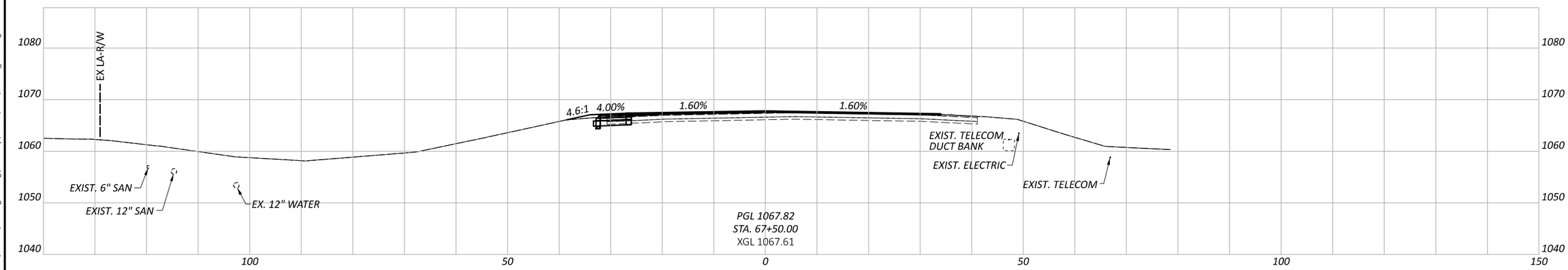
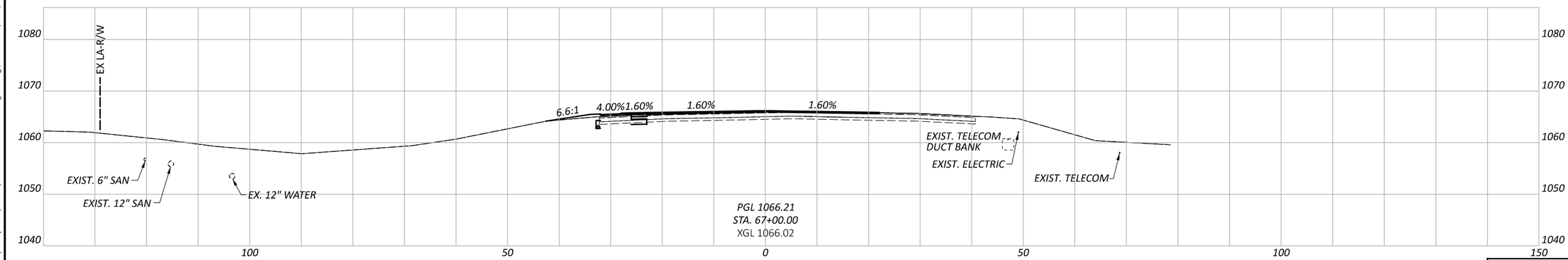
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 133 TOTAL 246







CROSS SECTIONS - SR 435
STA. 67+00.00 - STA. 68+00.00

FAY-435-1.52

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Sheet Totals		
Seeding	Cut	Fill

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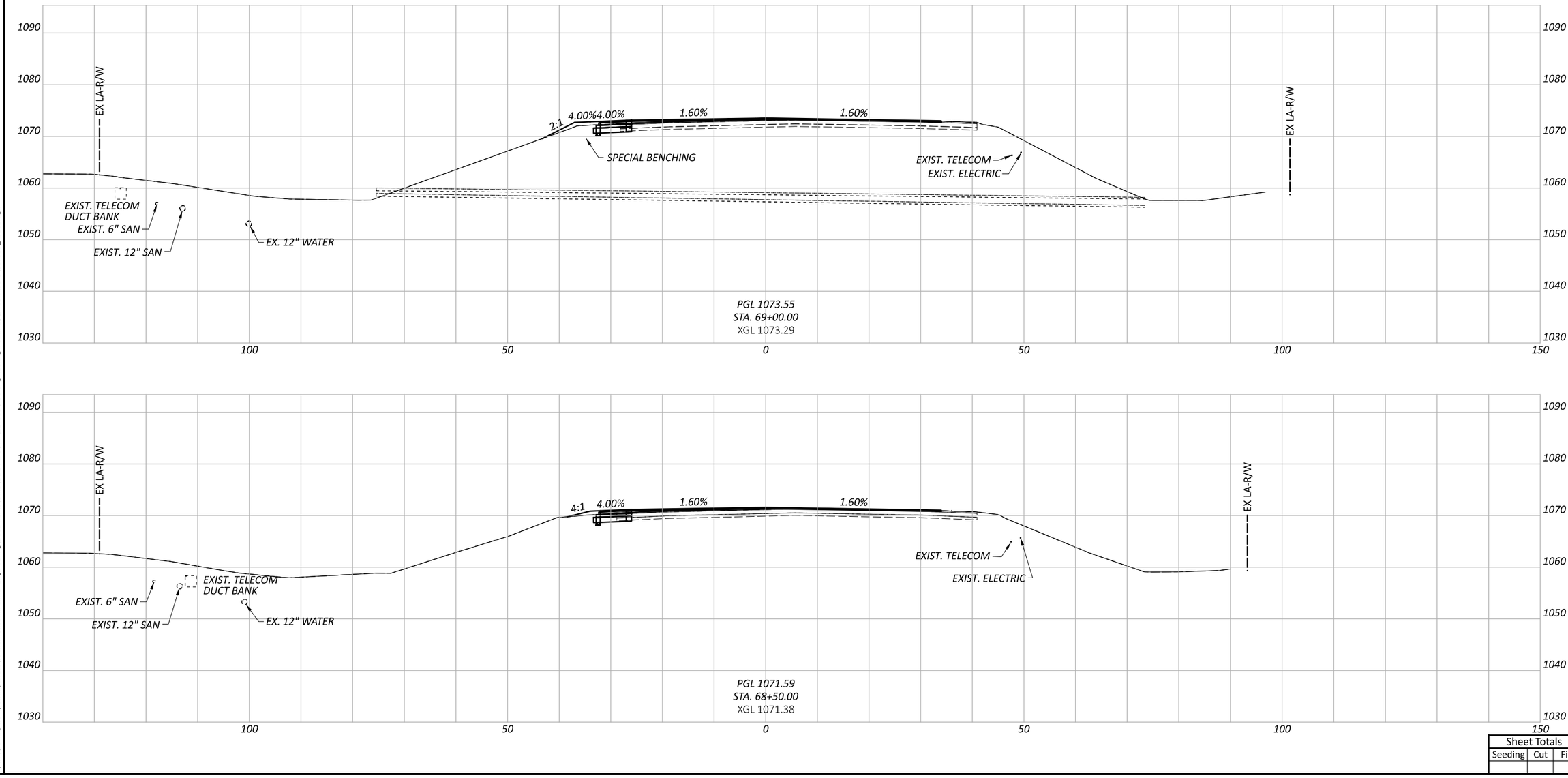
117955

SHEET P. 134 | TOTAL 246



CROSS SECTIONS - SR 435
STA. 68+50.00 TO STA. 69+00.00

FAY-435-1.52

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Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
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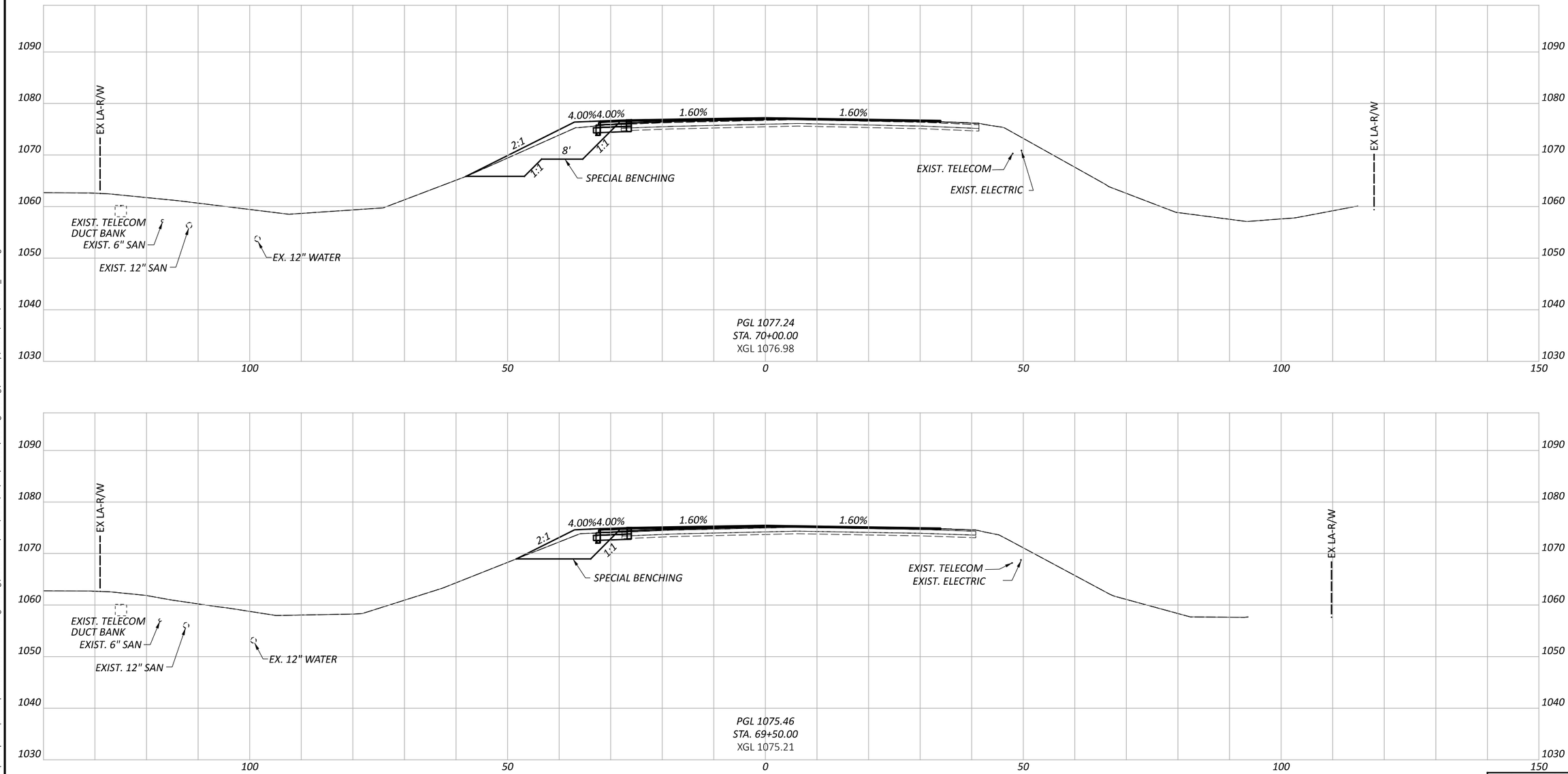
117955

SHEET P. 135 TOTAL 246



CROSS SECTIONS - SR 435
STA. 69+50.00 TO STA. 70+00.00

FAY-435-1.52

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Sheet Totals		
Seeding	Cut	Fill

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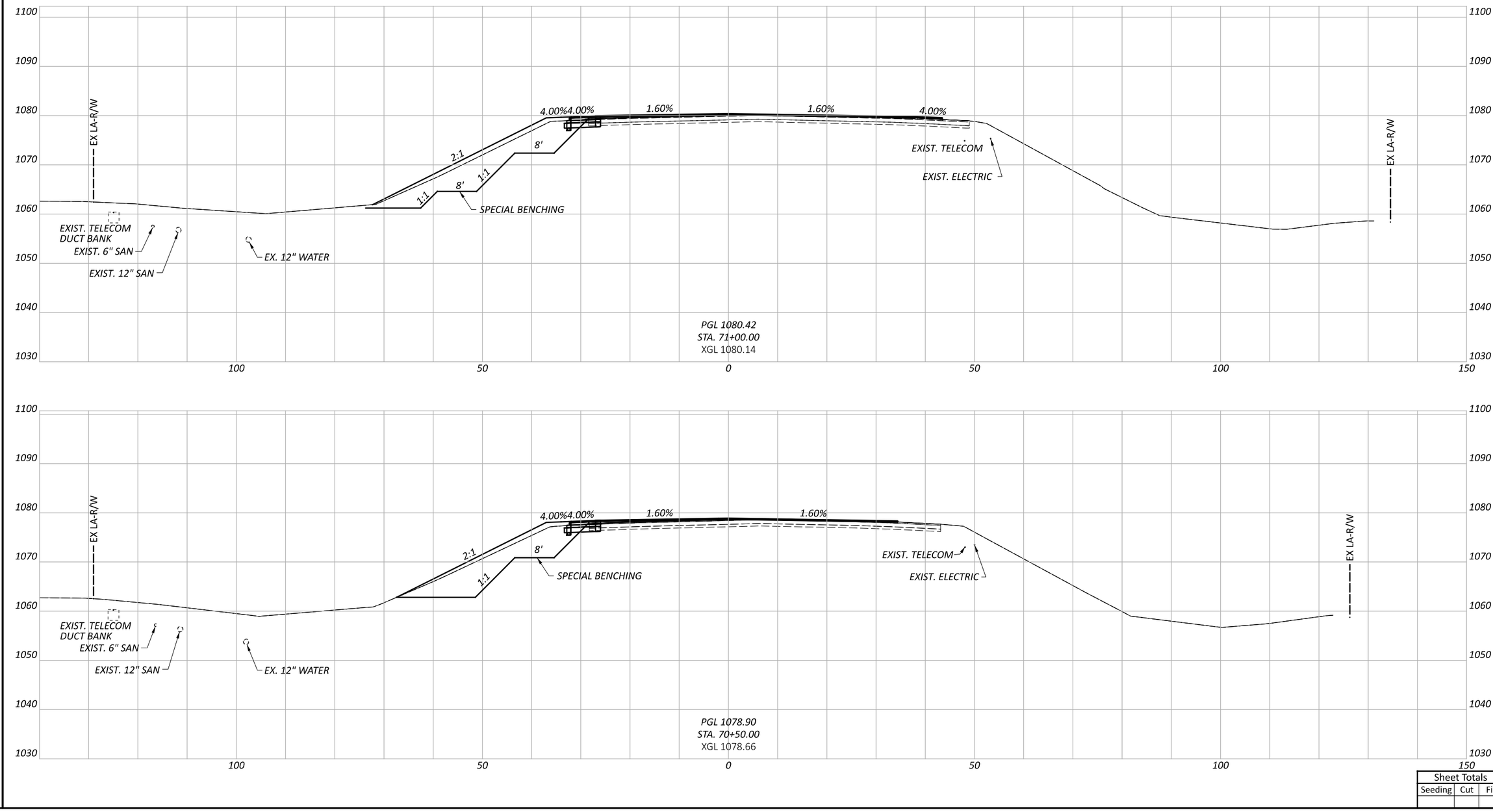
PROJECT ID
117955

SHEET P. 136 | TOTAL 246



FAY-435-1.52

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CROSS SECTIONS - SR 435
STA. 70+50.00 TO STA. 71+00.00

Sheet Totals		
Seeding	Cut	Fill

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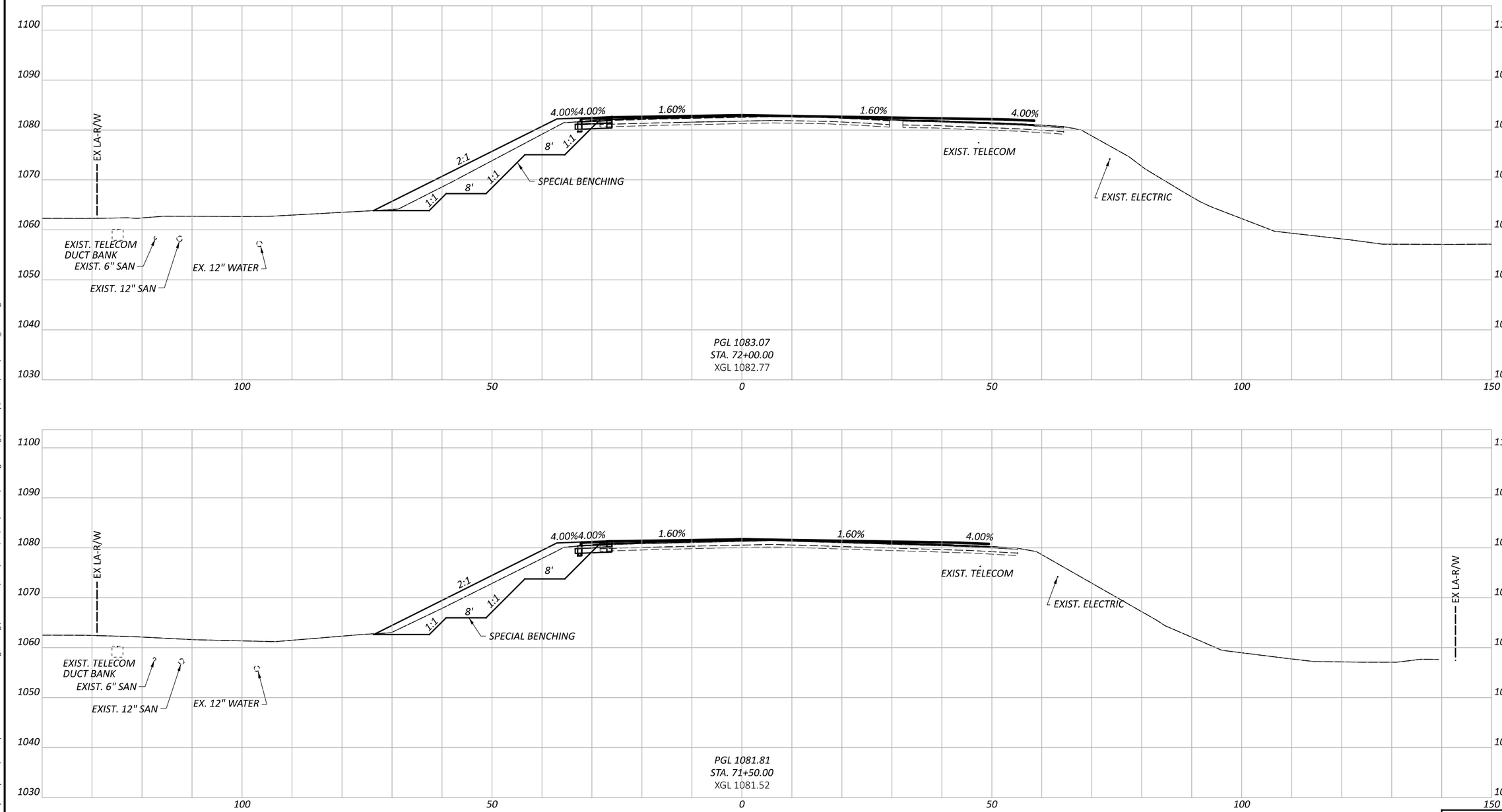
117955

SHEET P. 137 TOTAL 246



CROSS SECTIONS - SR 435
STA. 71+50.00 TO STA. 72+00.00

FAY-435-1.52

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Sheet Totals		
Seeding	Cut	Fill

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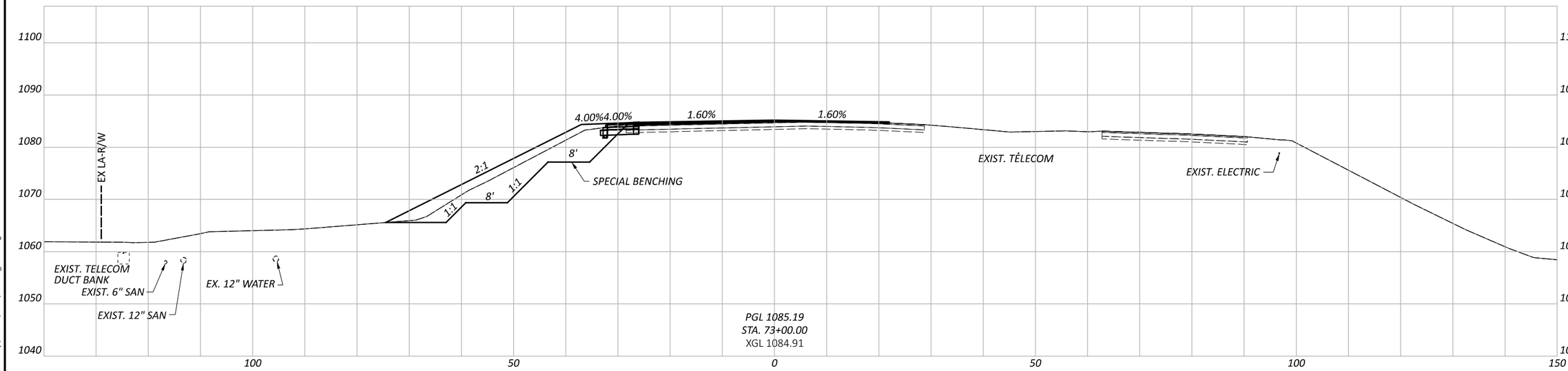
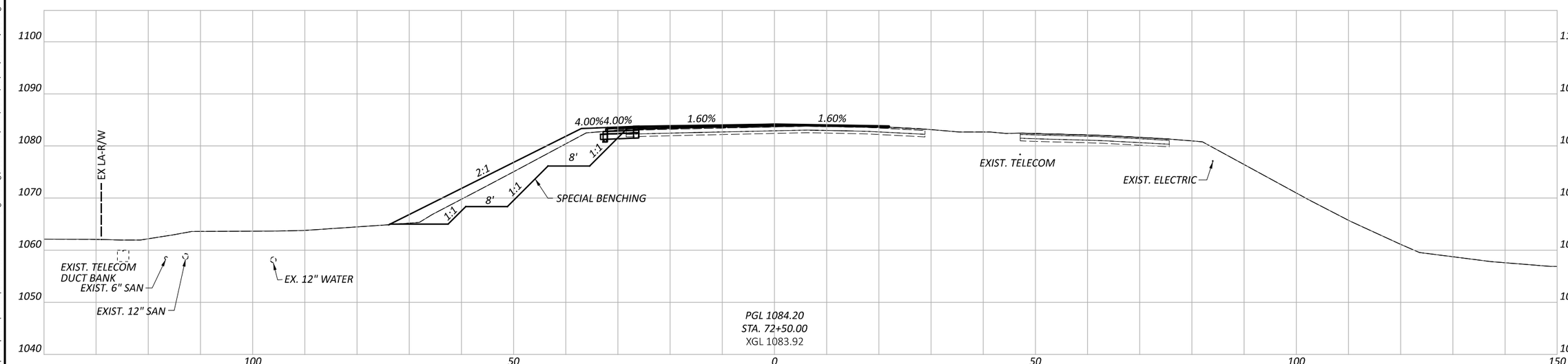
SHEET P. 138 TOTAL 246





CROSS SECTIONS - SR 435
STA. 72+50.00 TO STA. 73+00.00

FAY-435-1.52

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Sheet Totals		
Seeding	Cut	Fill

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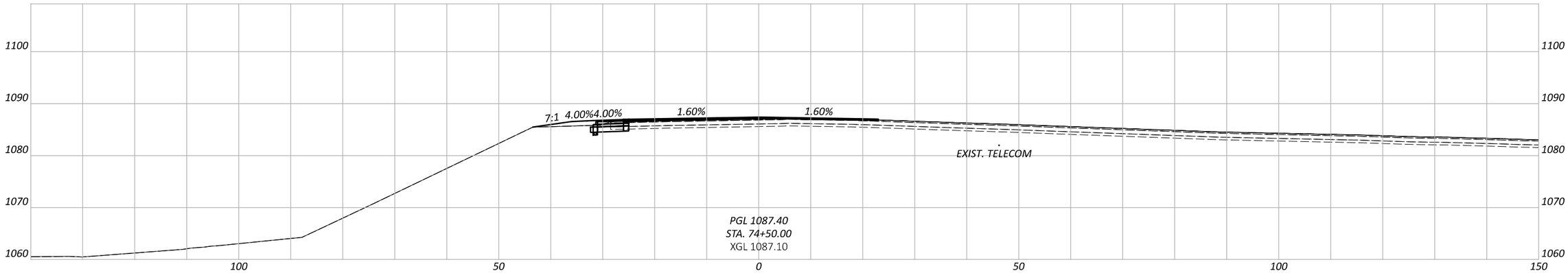
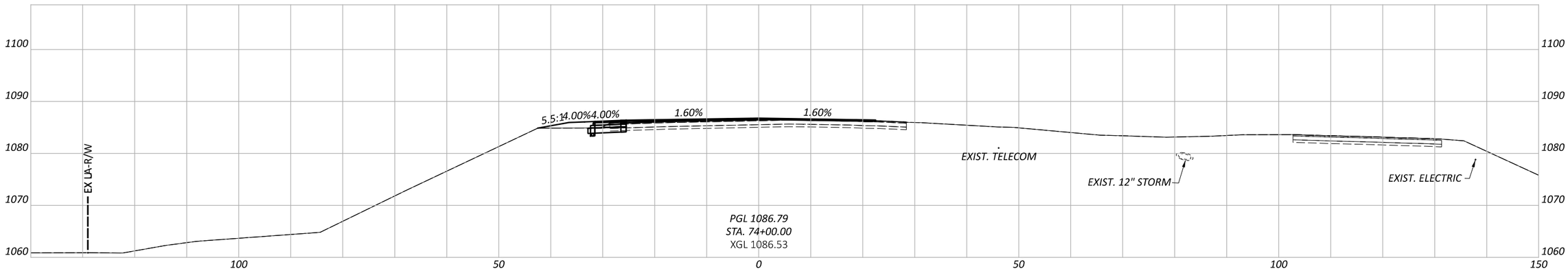
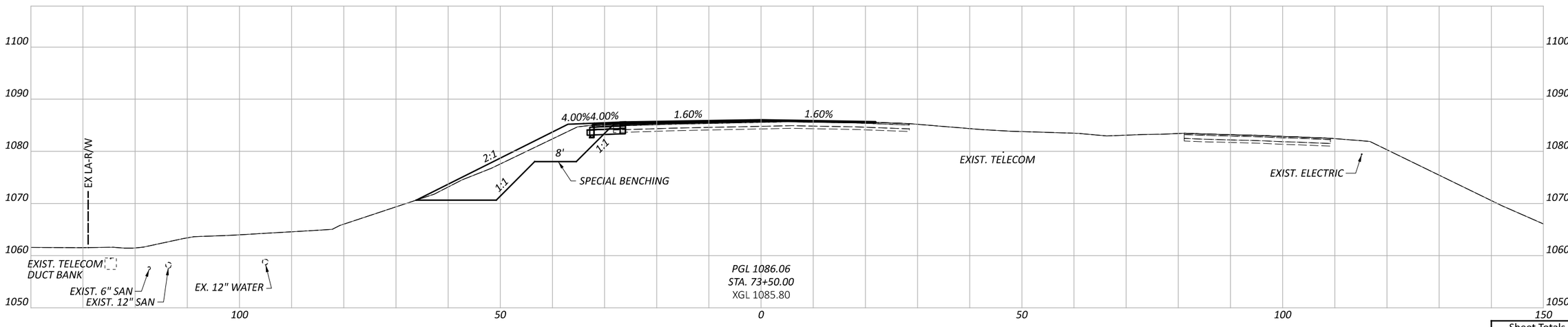
DESIGNER	DPF
REVIEWER	DCJ 05/10/24
PROJECT ID	117955
SHEET	P. 139
TOTAL	246







FAY-435-1.52

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CROSS SECTIONS - SR 435
STA. 73+50.00 TO STA. 74+50.00

Sheet Totals		
Seeding	Cut	Fill

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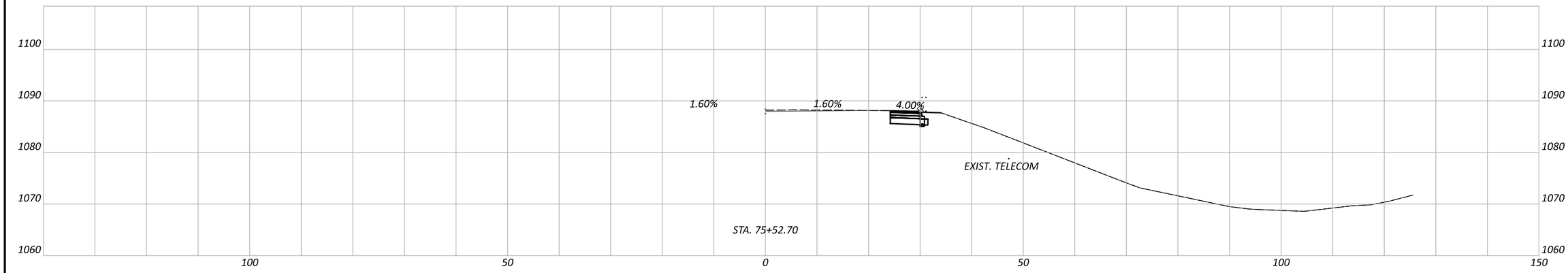
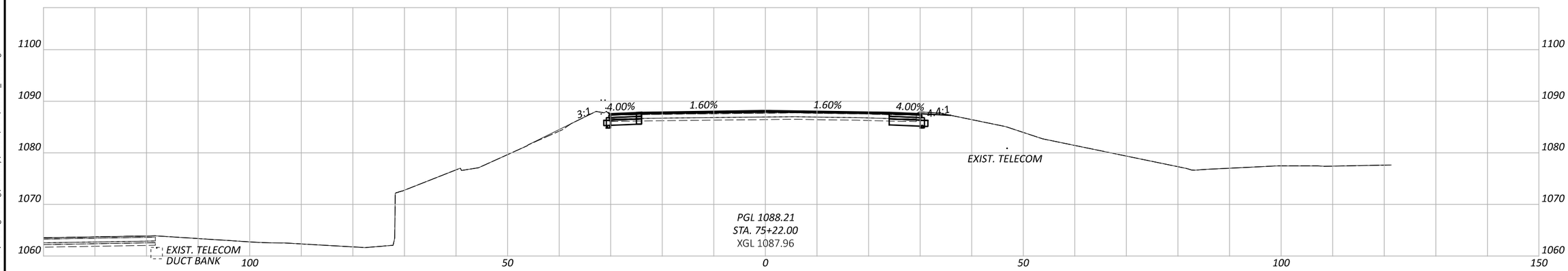
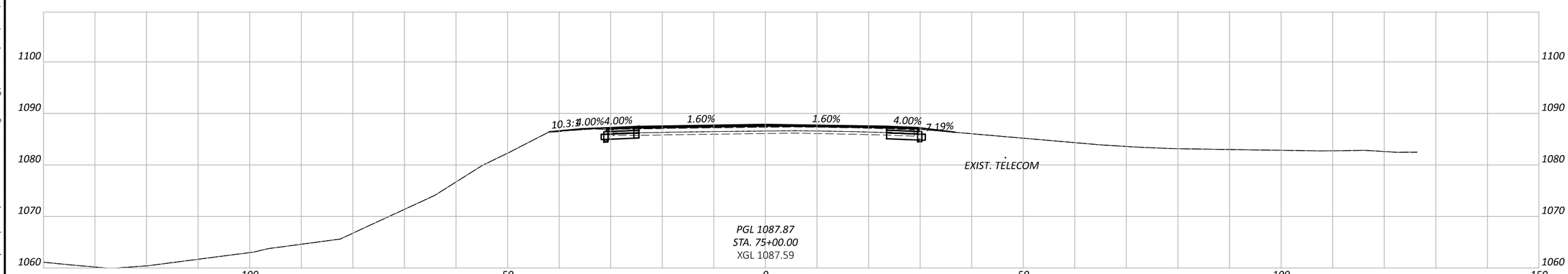
SHEET P. 140 | TOTAL 246







CROSS SECTIONS - SR 435
STA. 75+00.00 TO STA. 75+52.70

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY

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PROJECT ID: 117955

SHEET: P. 141 TOTAL: 246

FAY-435-1.52

MODEL: CLP_SR435_01 - 75+00.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:36:14 PM USER: dan-f
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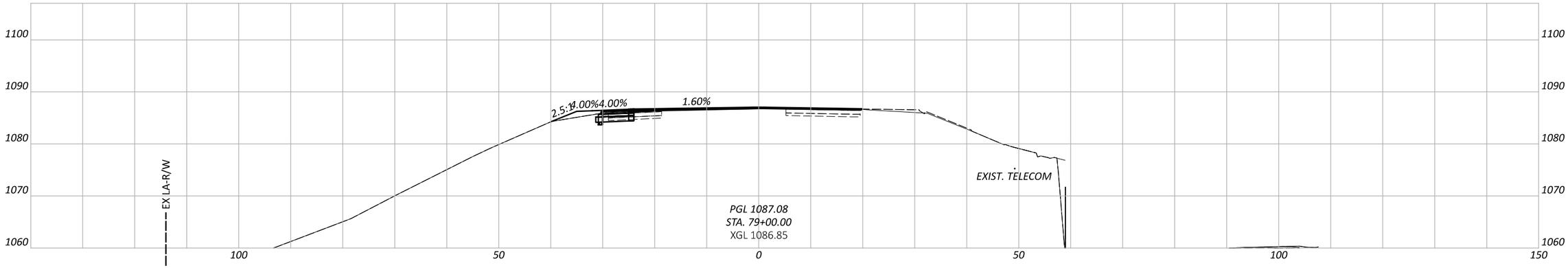

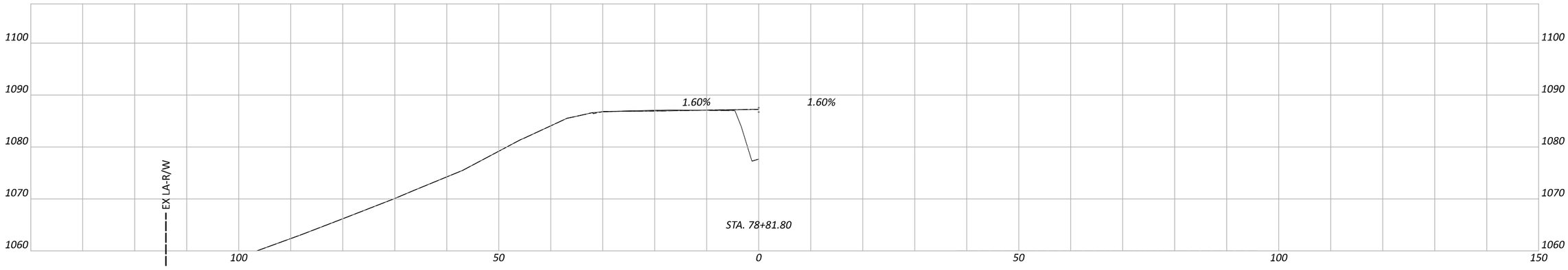

CROSS SECTIONS - SR 435
STA. 78+50.00 TO STA. 79+00.00

DESIGN AGENCY
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PROJECT ID
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Sheet Totals		
Seeding	Cut	Fill

SHEET	TOTAL
P. 142	246

FAY-435-1.52

MODEL: CLP_SR435_01 - 78+56.80 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:36:18 PM USER: dan-f
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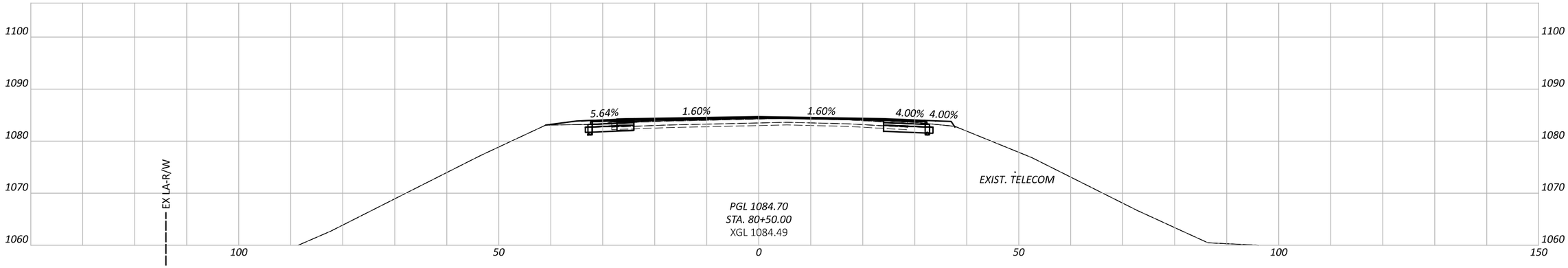

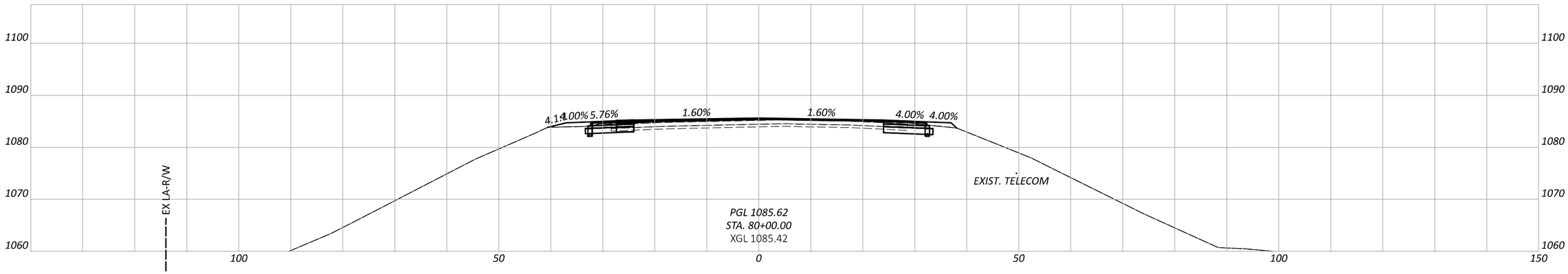

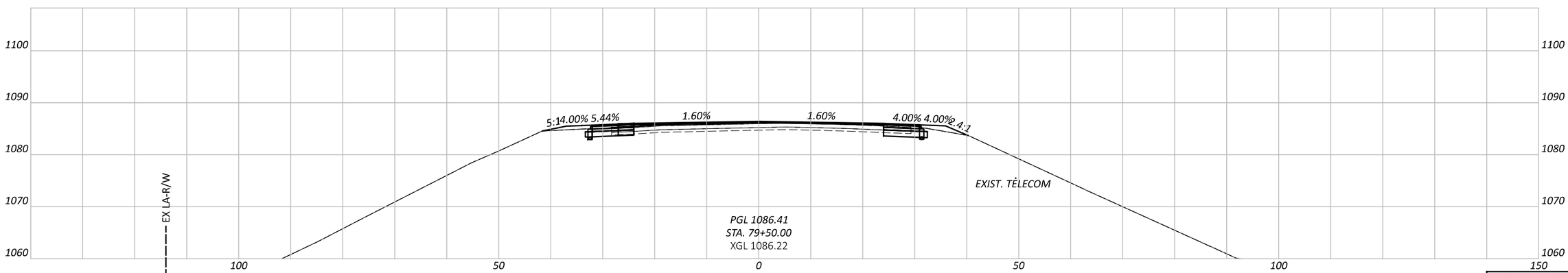

CROSS SECTIONS - SR 435
STA. 79+50.00 TO STA. 80+50.00

FAY-435-1.52

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Sheet Totals		
Seeding	Cut	Fill

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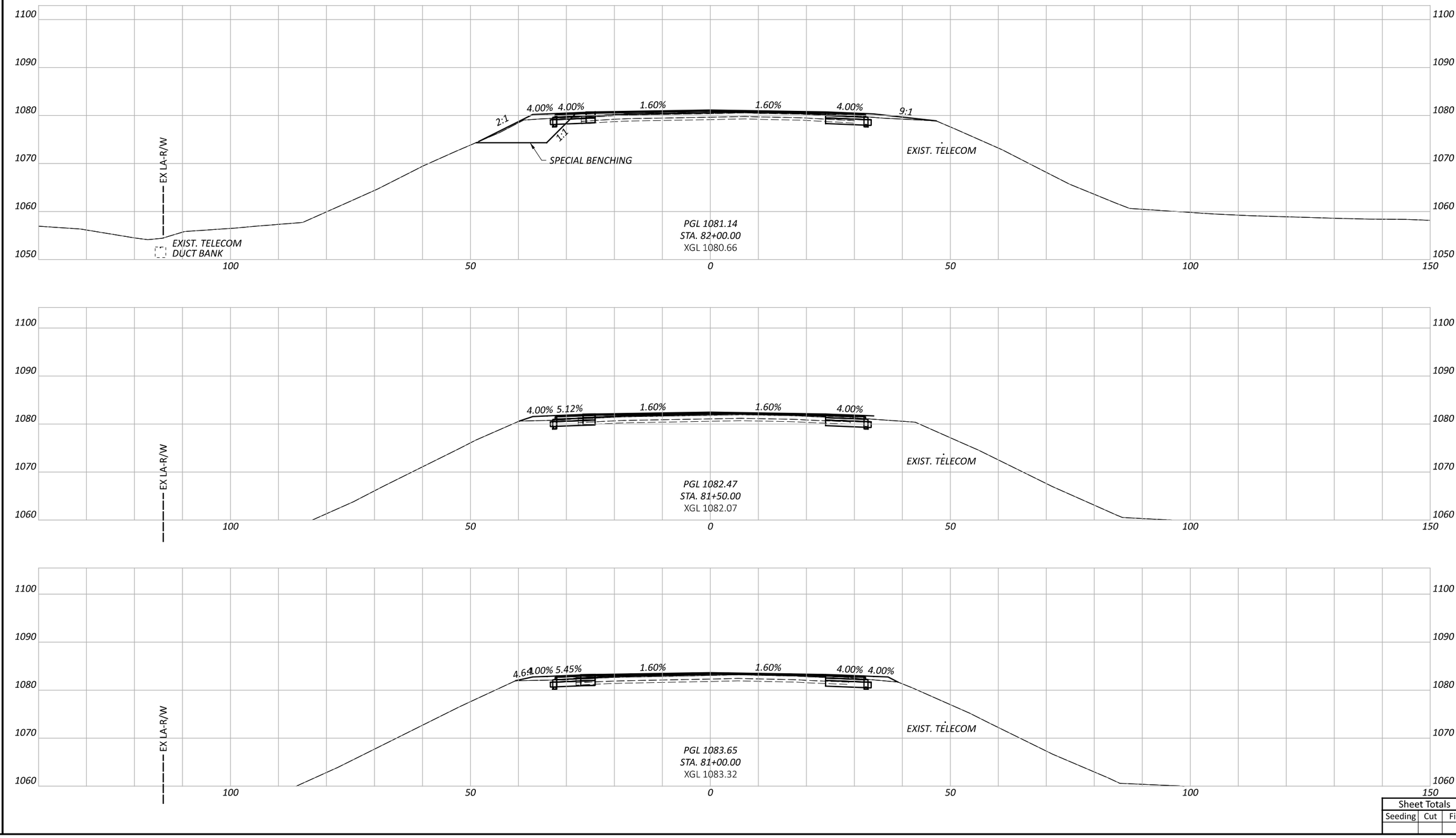
PROJECT ID
117955

SHEET P. 143 TOTAL 246



CROSS SECTIONS - SR 435
STA. 81+00.00 TO STA. 82+00.00

FAY-435-1.52

MODEL: CLP_SR435_01 - 81+00.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:36:26 PM USER: dan-f
pw:\\pewinpw04.pewin.private:palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\Roadway\Sheets\BU-5\117955_XS002.dgn

Sheet Totals		
Seeding	Cut	Fill

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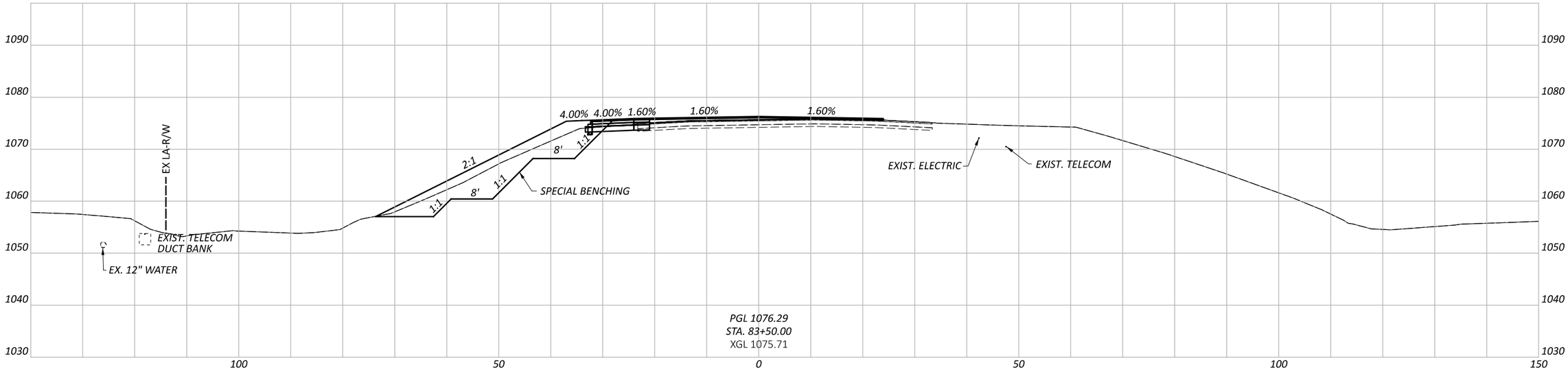
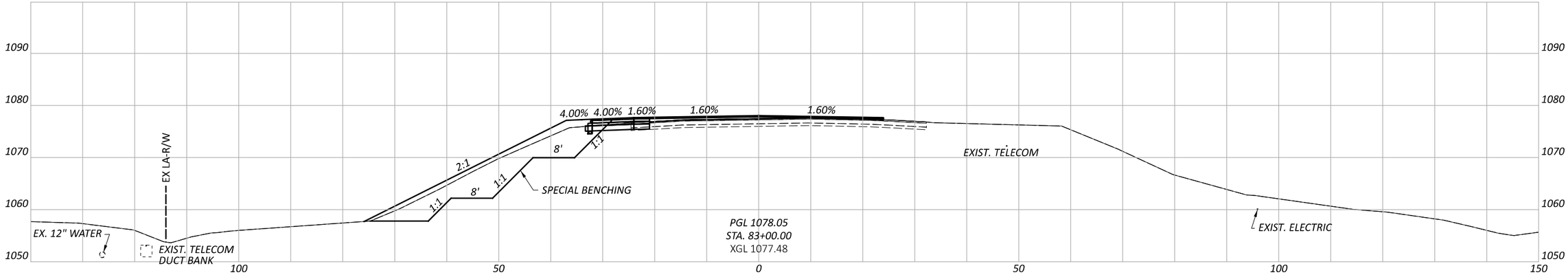
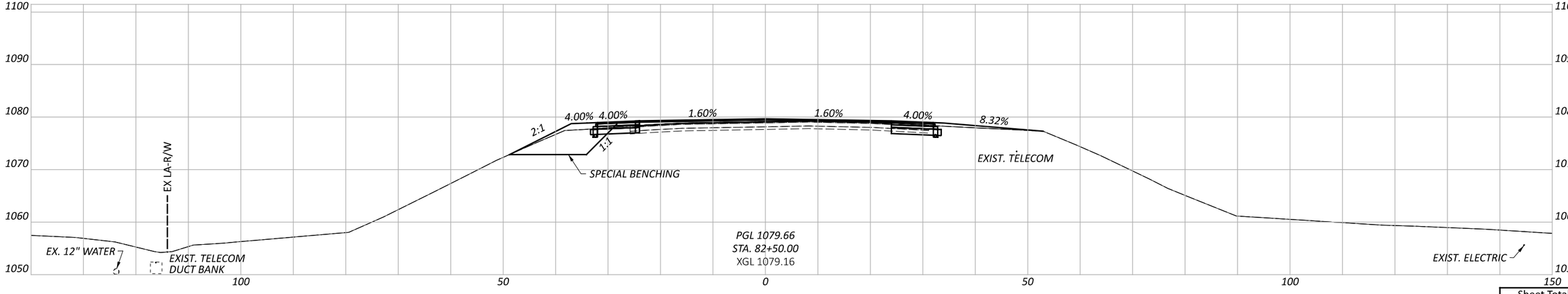
SHEET P. 144 | TOTAL 246







CROSS SECTIONS - SR 435
STA. 82+50.00 TO STA. 83+50.00

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY

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DESIGNER: DPF

REVIEWER: DCJ 05/10/24

PROJECT ID: 117955

SHEET: P. 145 TOTAL: 246

FAY-435-1.52

MODEL: CLP_SR435_01 - 82+50.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:36:30 PM USER: dan-f
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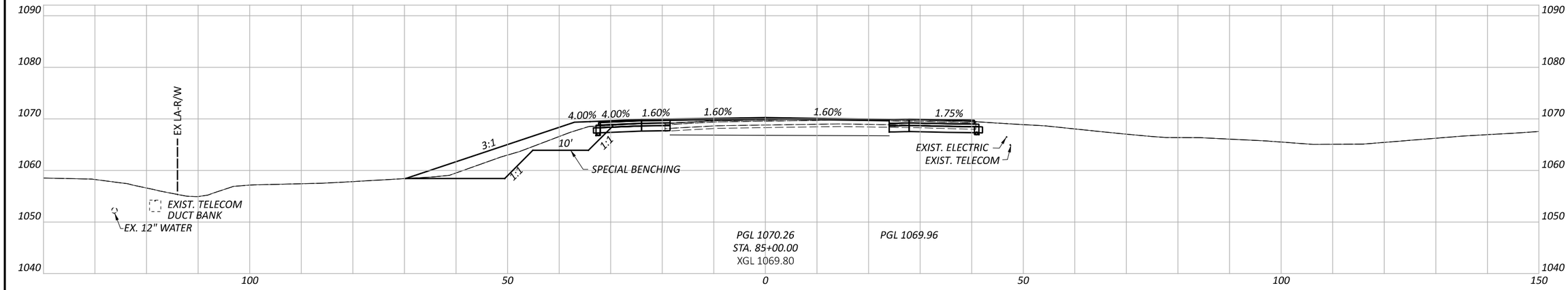

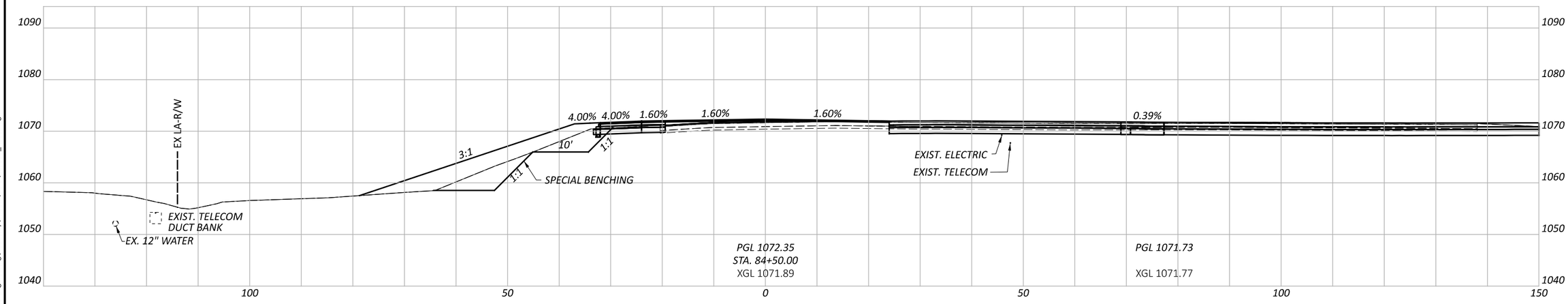

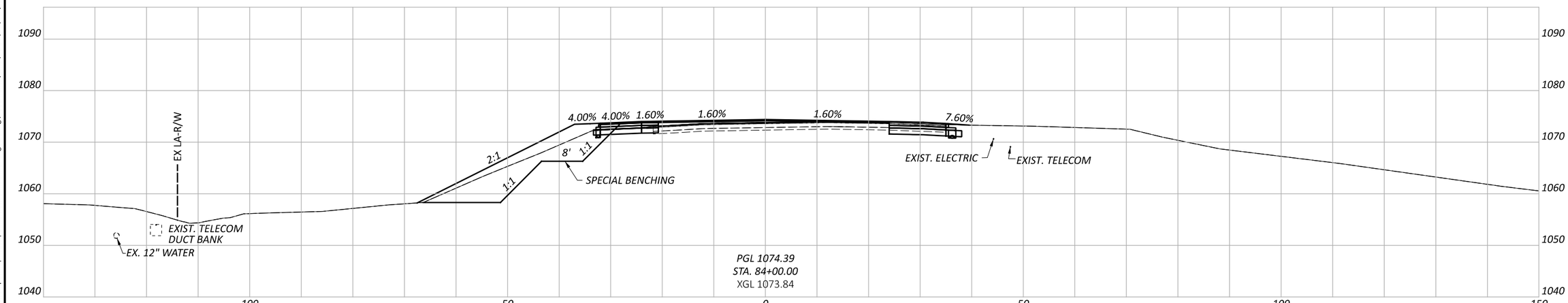

CROSS SECTIONS - SR 435
STA. 84+00.00 TO STA. 85+00.00

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY

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8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER: DPF

REVIEWER: DCJ 05/10/24

PROJECT ID: 117955

SHEET: P. 146 | TOTAL: 246

FAY-435-1.52

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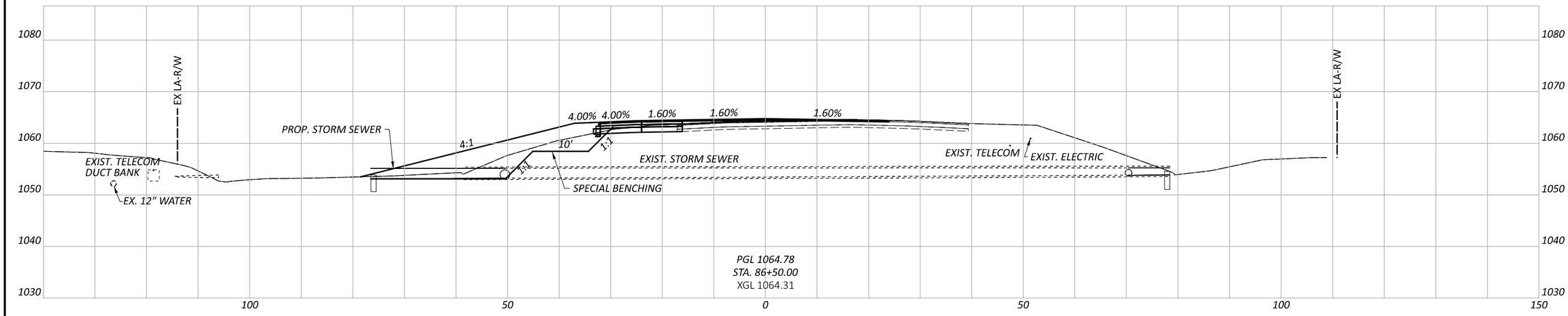

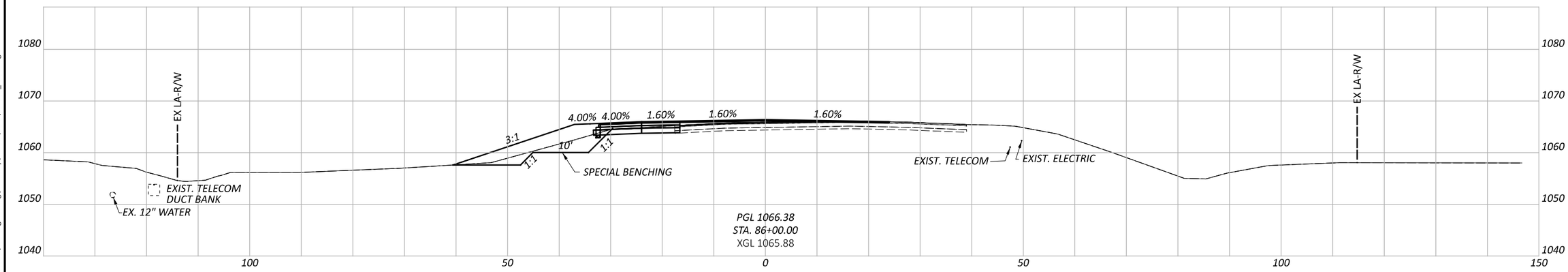

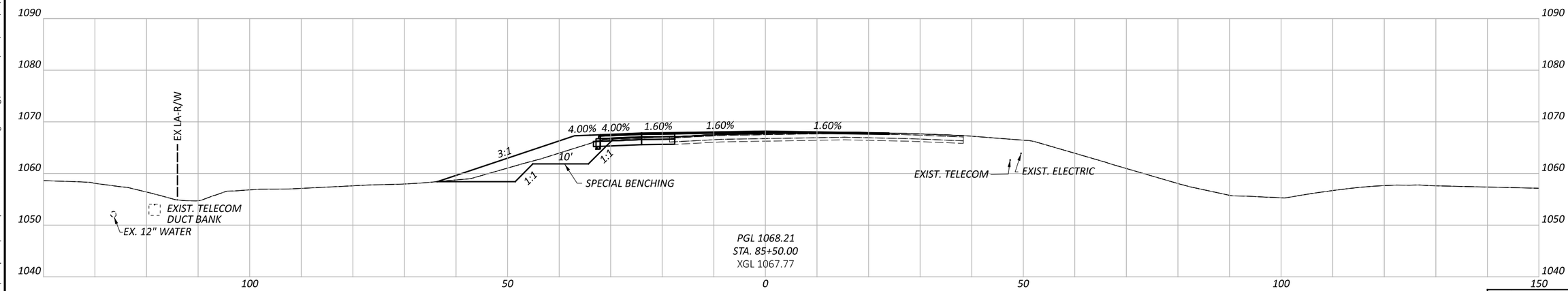

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CROSS SECTIONS - SR 435
STA. 85+50.00 TO STA. 86+50.00

Sheet Totals		
Seeding	Cut	Fill

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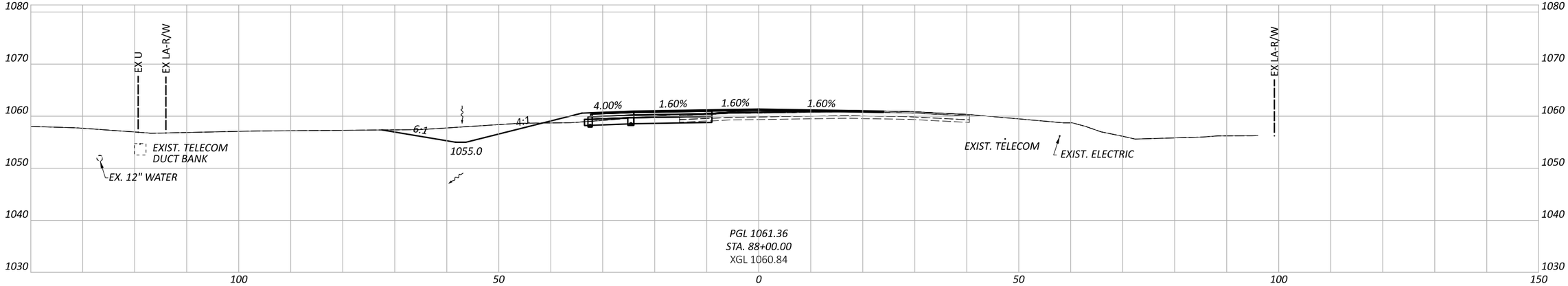
DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 147 TOTAL: 246



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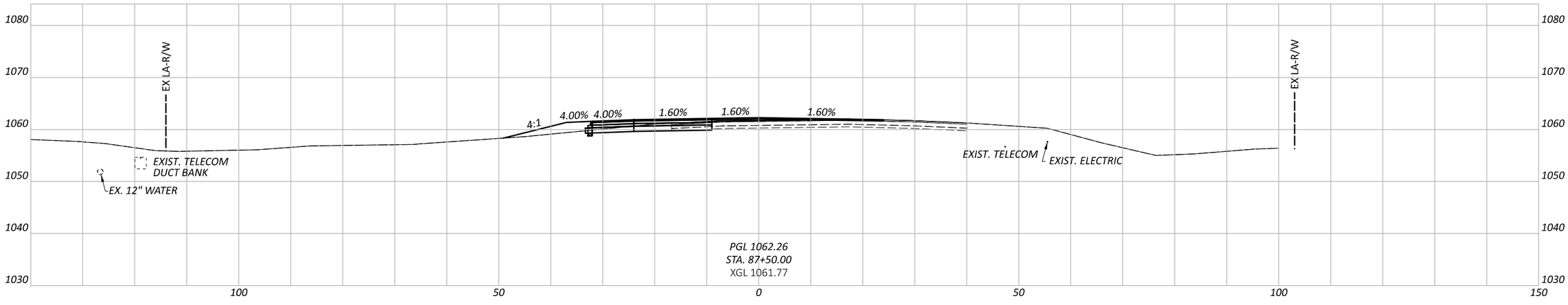

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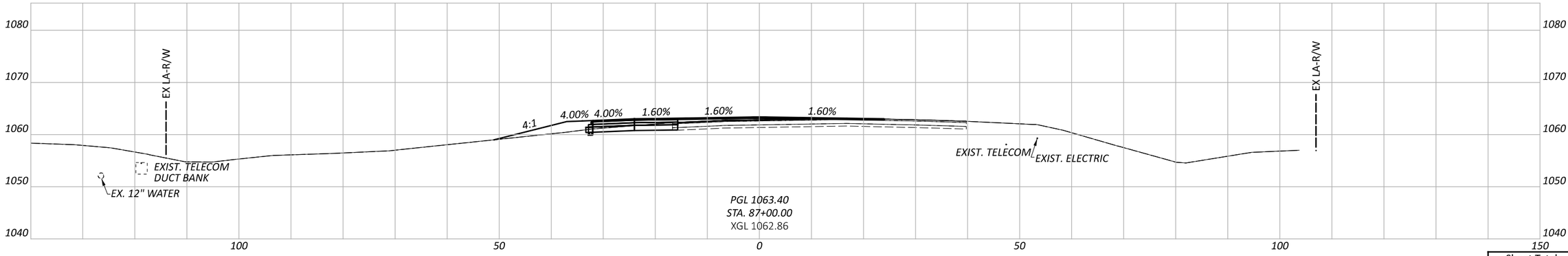

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CROSS SECTIONS - SR 435
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FAY-435-1.52

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Sheet Totals		
Seeding	Cut	Fill

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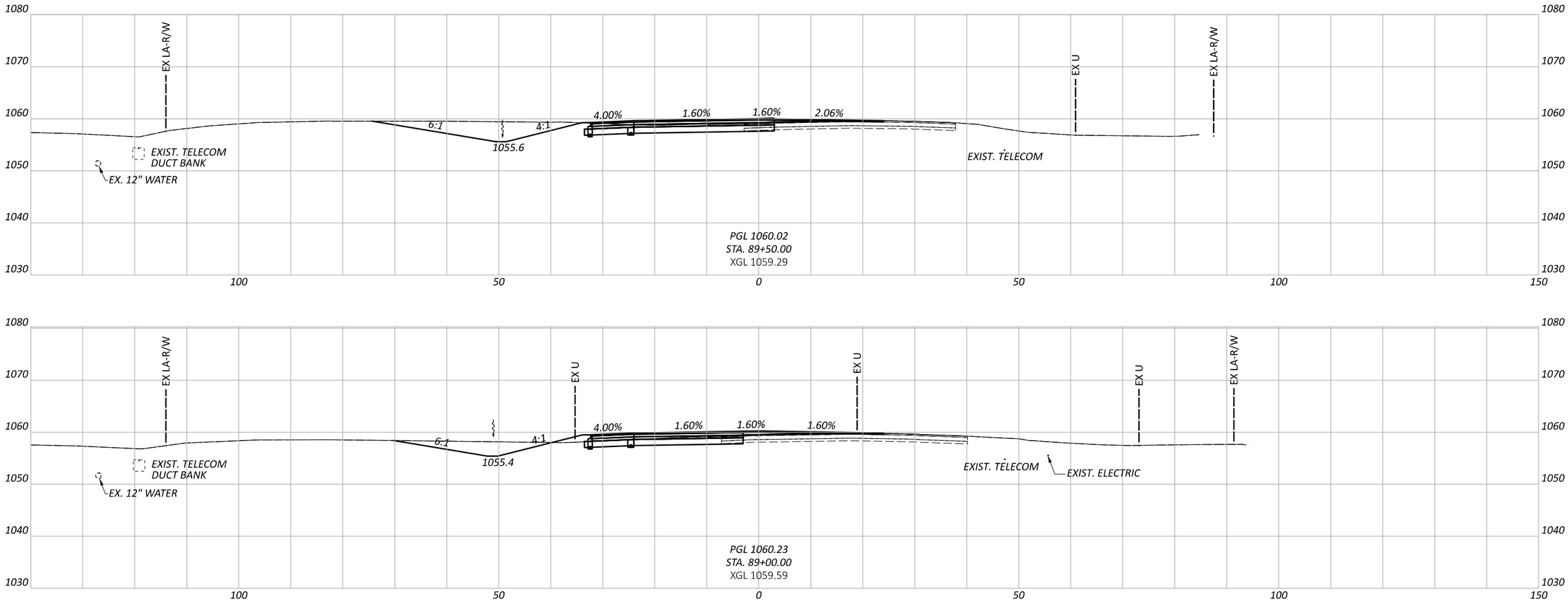
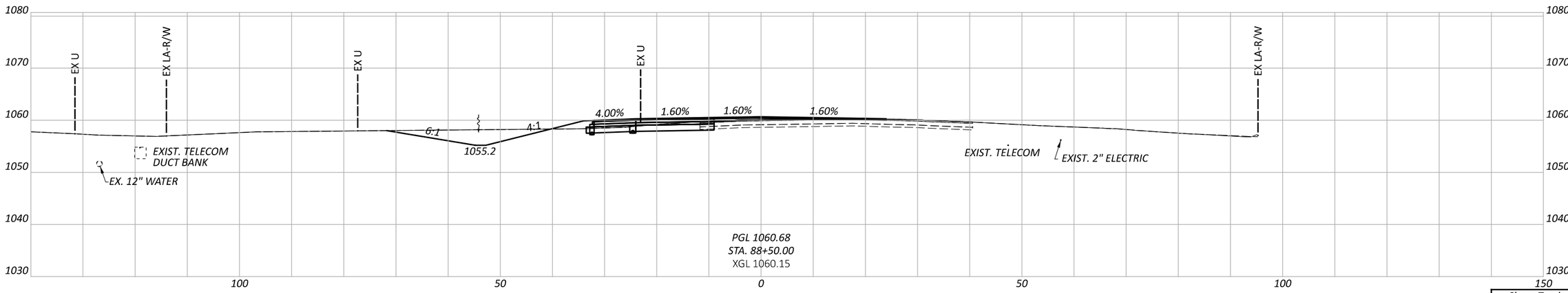
117955

SHEET	TOTAL
P. 148	246





CROSS SECTIONS - SR 435
STA. 88+50.00 TO STA. 89+00.00

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
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PROJECT ID: 117955

SHEET: P. 149 | TOTAL: 246

FAY-435-1.52

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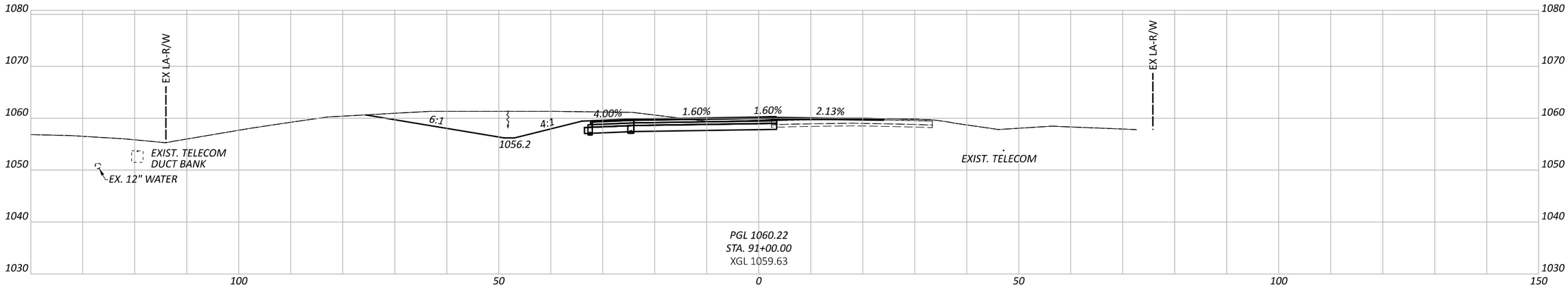

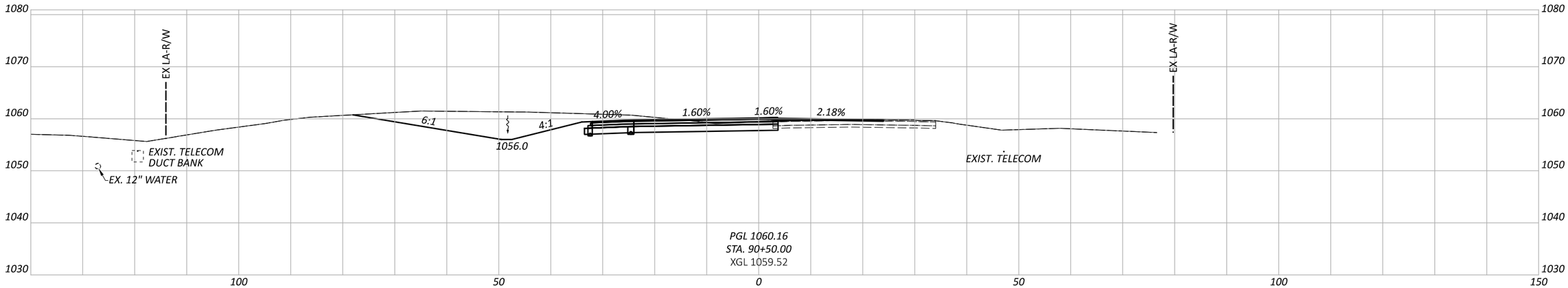

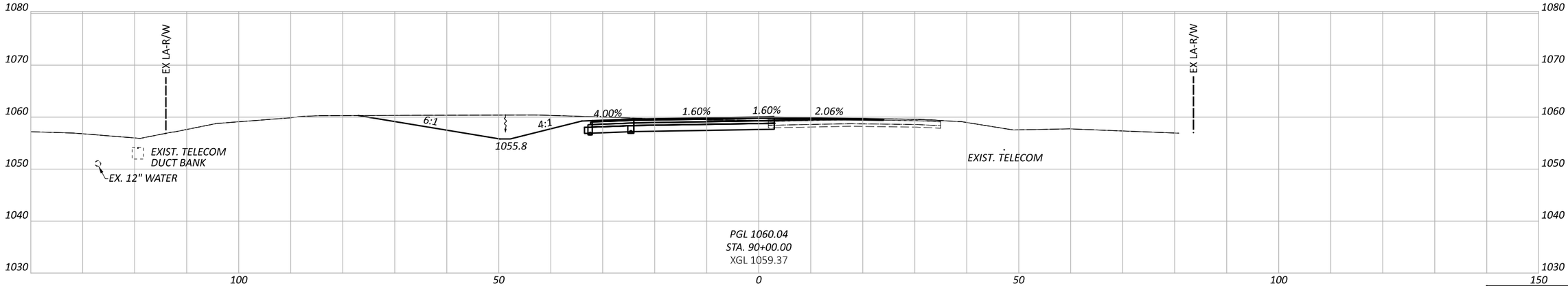

CROSS SECTIONS - SR 435
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FAY-435-1.52

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DESIGNER: DPF
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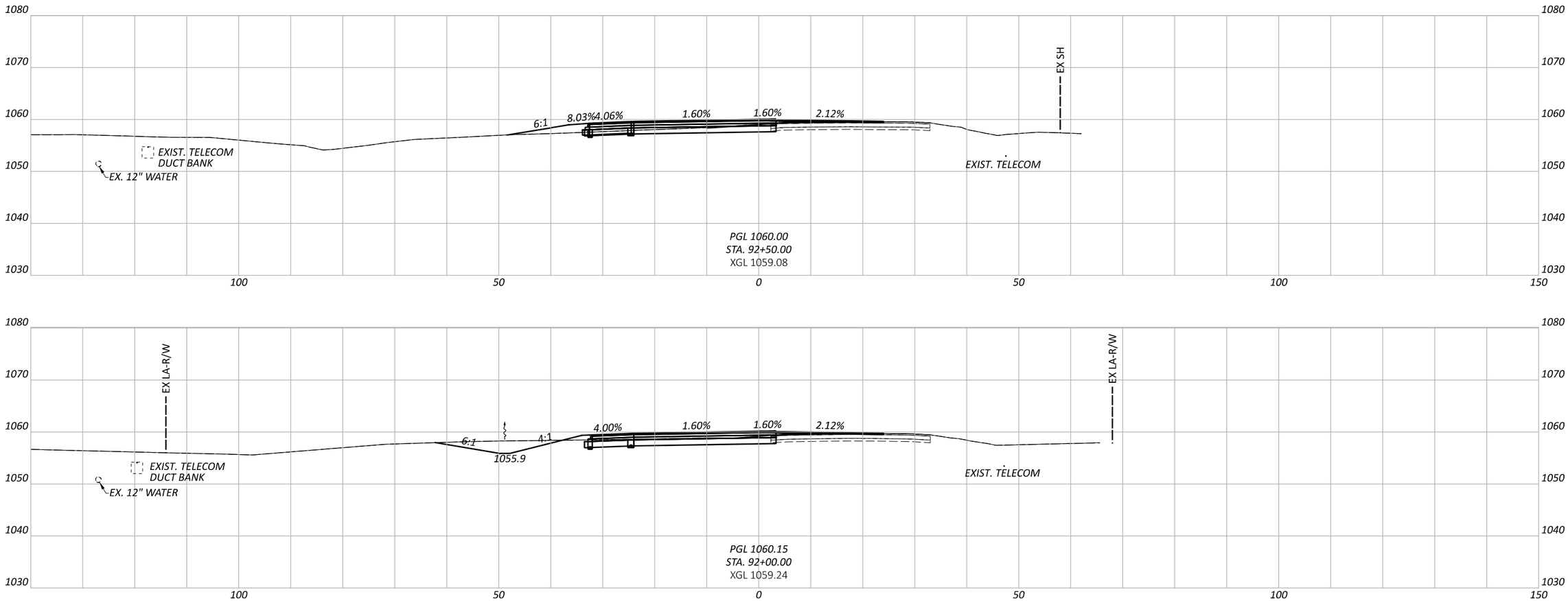
Sheet Totals		
Seeding	Cut	Fill

SHEET: P. 150 TOTAL: 246



CROSS SECTIONS - SR 435
STA. 91+50.00 TO STA. 92+50.00

FAY-435-1.52

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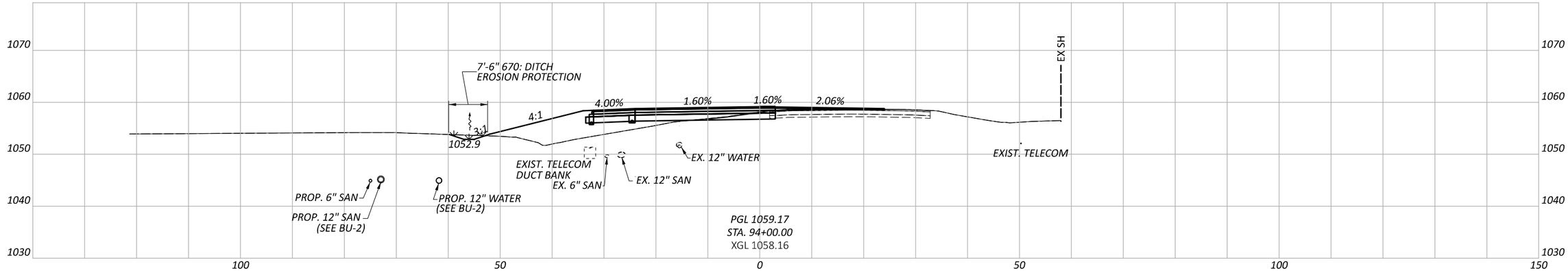
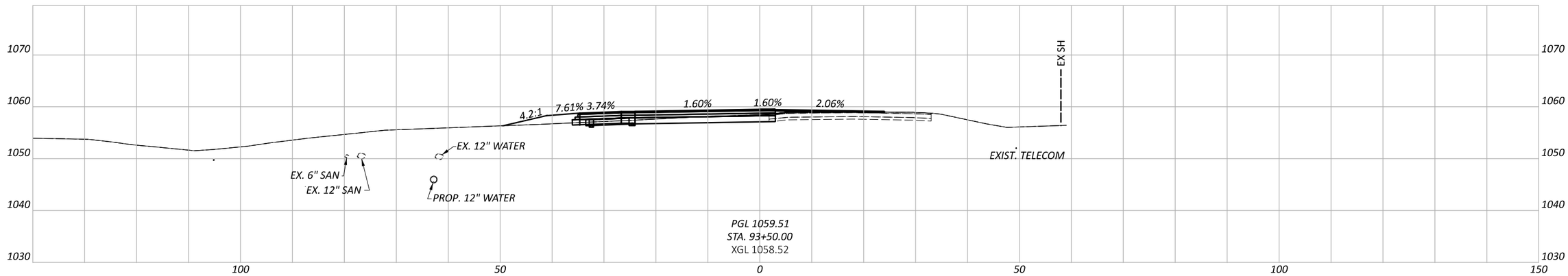
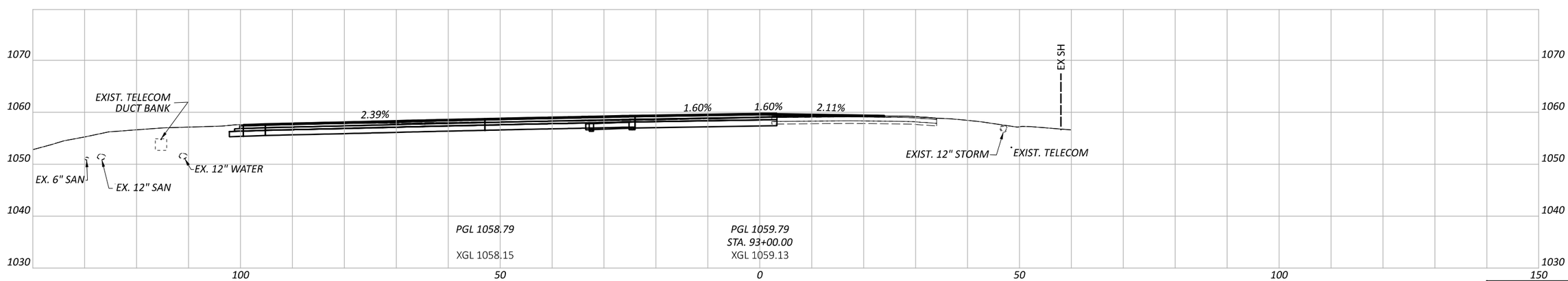
PROJECT ID: 117955

Sheet Totals		
Seeding	Cut	Fill

SHEET P. 151 TOTAL 246







CROSS SECTIONS - SR 435
STA. 93+00.00 TO STA. 94+00.00

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
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DESIGNER: DPF
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PROJECT ID: 117955
SHEET: P. 152 | TOTAL: 246

FAY-435-1.52

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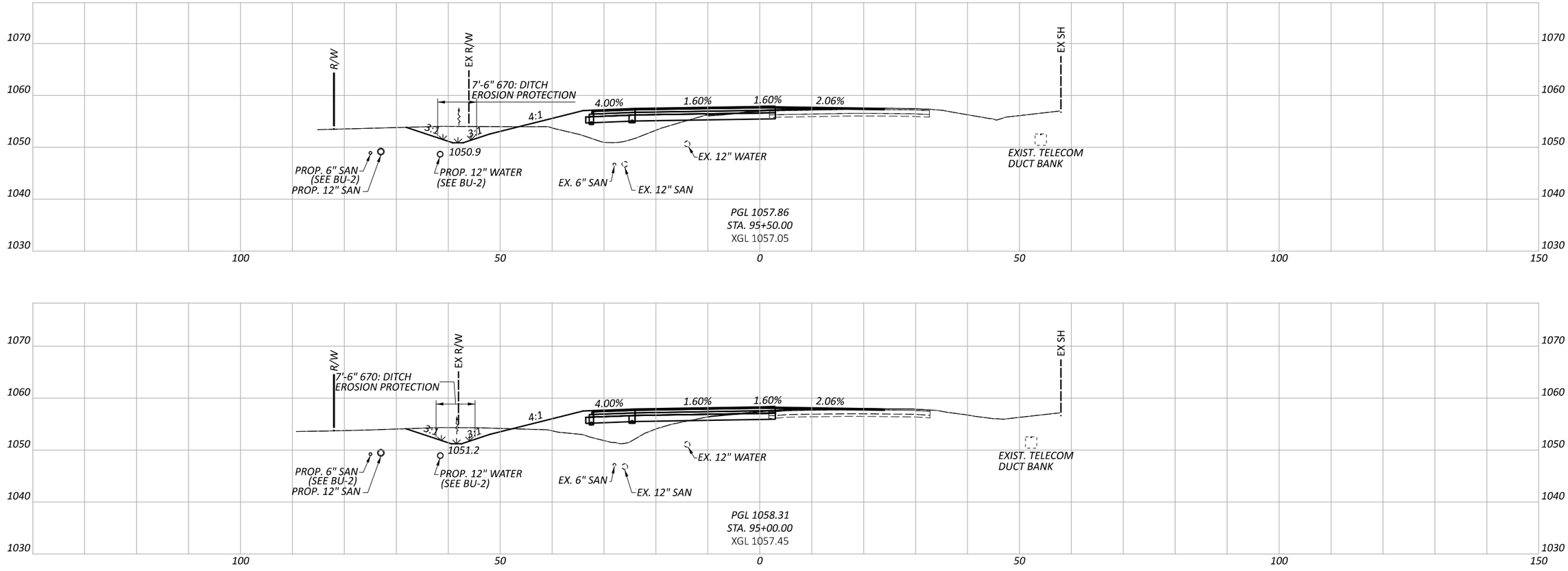

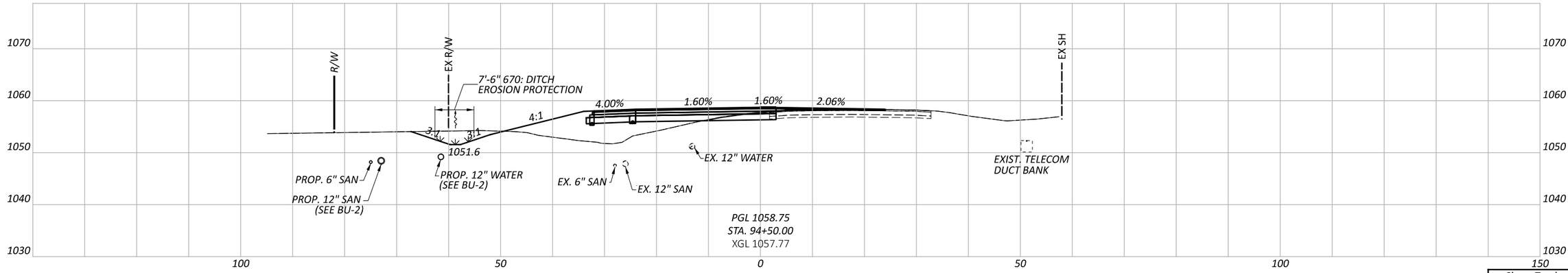

CROSS SECTIONS - SR 435
STA. 94+50.00 TO STA. 95+50.00

Sheet Totals		
Seeding	Cut	Fill

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117955

SHEET P. 153 | TOTAL 246

FAY-435-1.52

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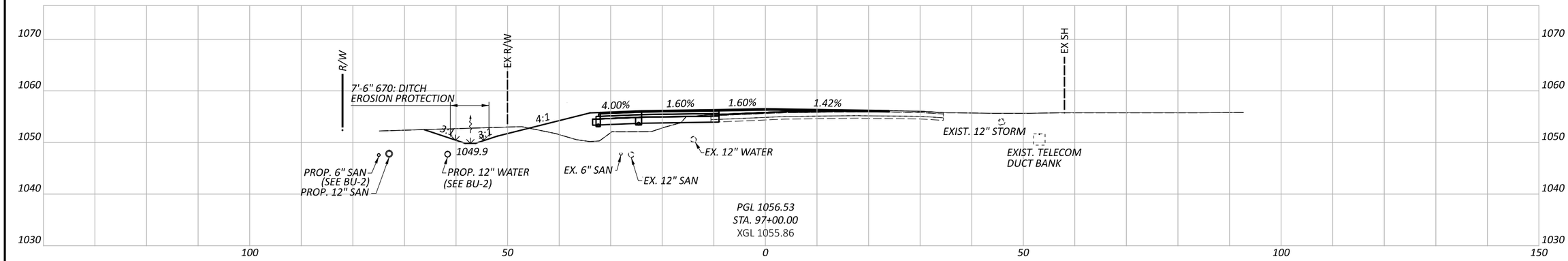

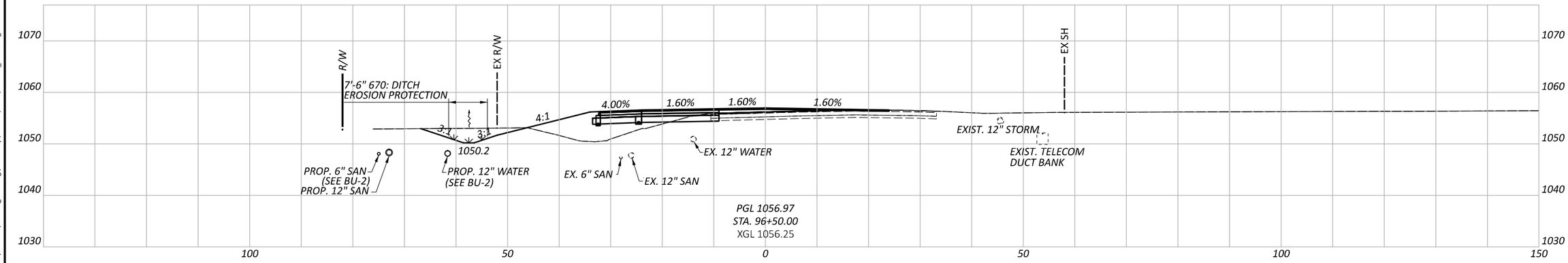

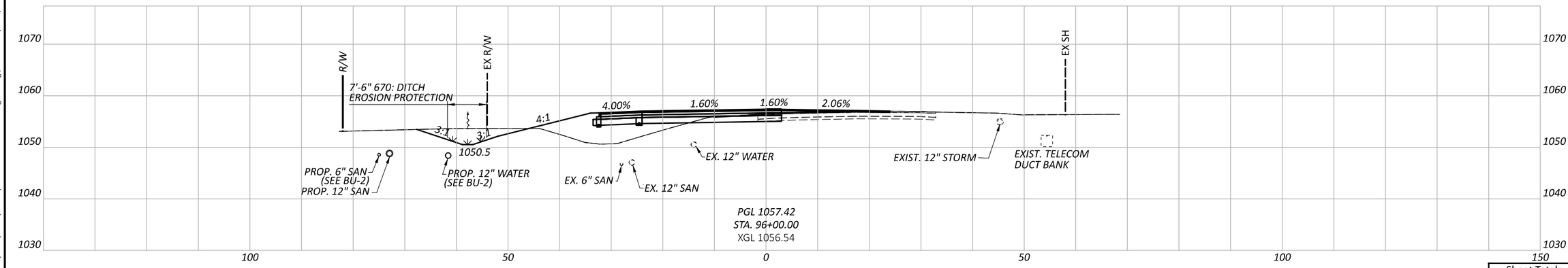

FAY-435-1.52

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CROSS SECTIONS - SR 435
STA. 96+00.00 TO STA. 97+00.00

Sheet Totals		
Seeding	Cut	Fill

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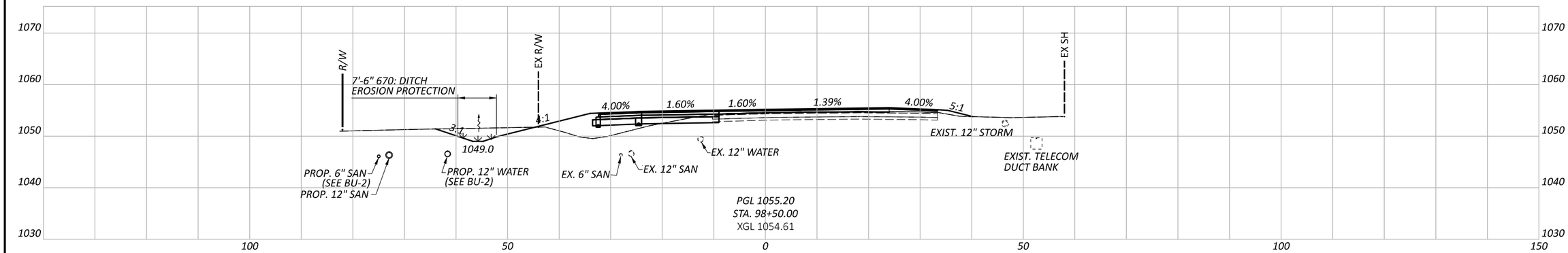
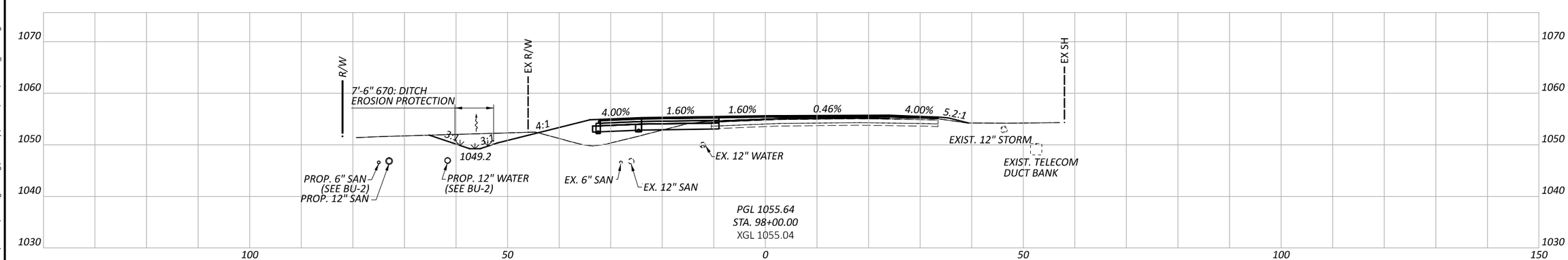
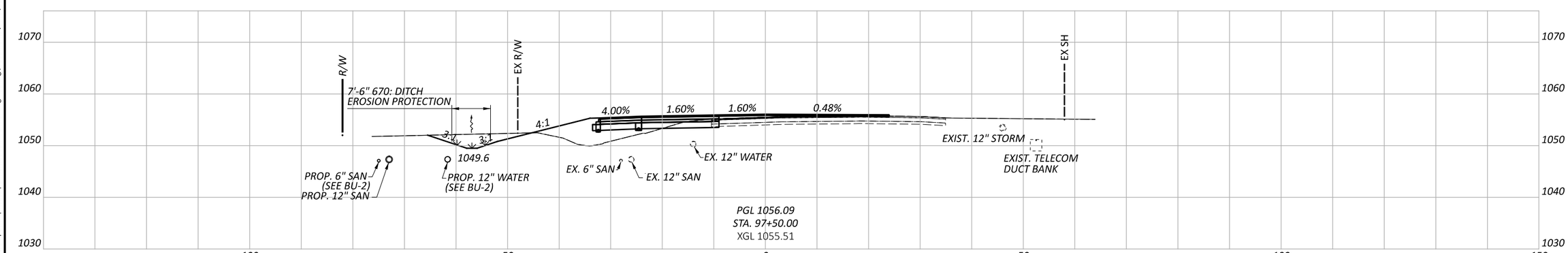
PROJECT ID
117955

SHEET P. 154 | TOTAL 246







CROSS SECTIONS - SR 435
STA. 97+50.00 TO STA. 98+50.00

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
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DCJ 05/10/24

PROJECT ID
117955

SHEET P. 155 | TOTAL 246

FAY-435-1.52

MODEL: CLP_SR435_01 - 97+50.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:37:19 PM USER: dan-f
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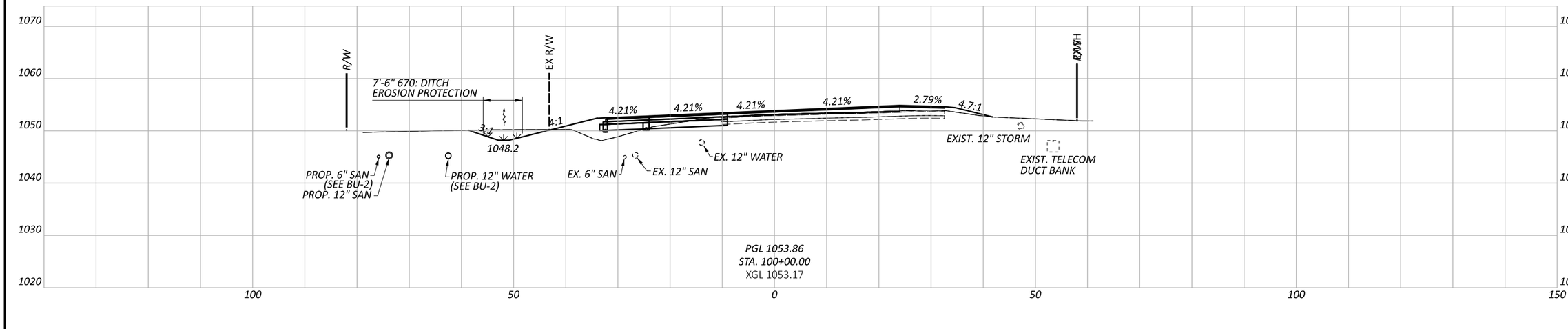

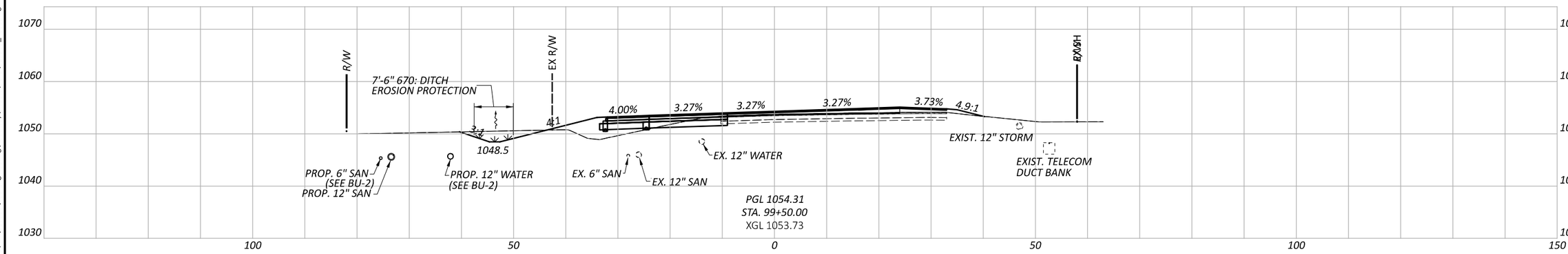

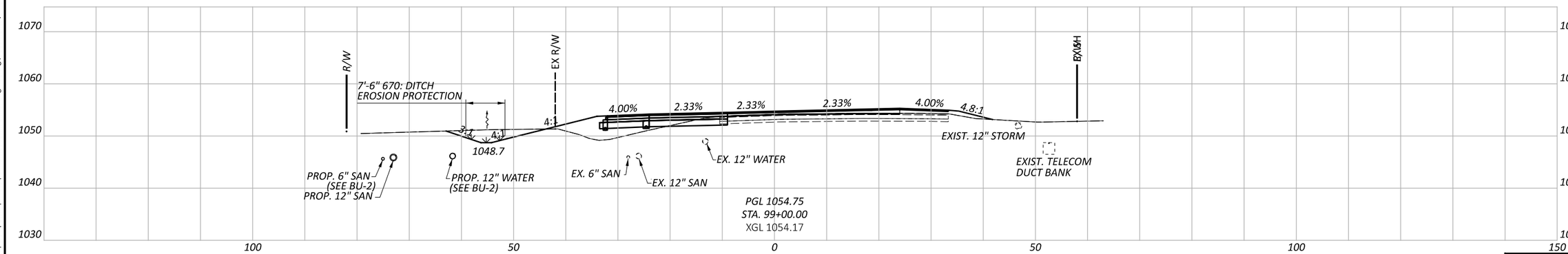

CROSS SECTIONS - SR 435
STA. 99+00.00 TO STA. 100+00.00

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY

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DESIGNER: DPF

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PROJECT ID: 117955

SHEET: P. 156 | TOTAL: 246

FAY-435-1.52

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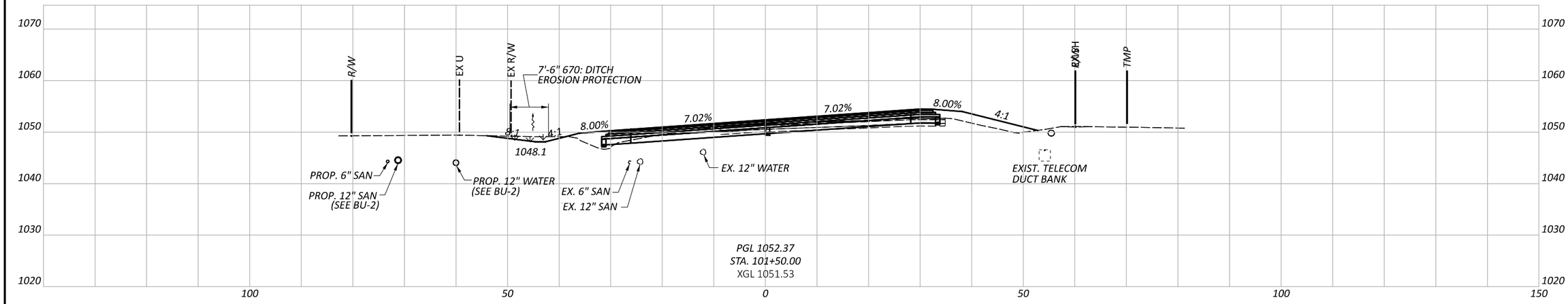

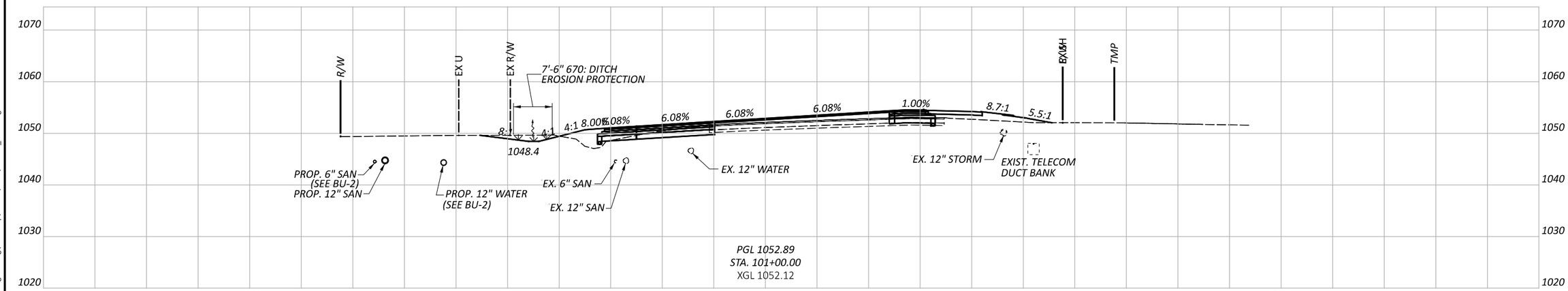

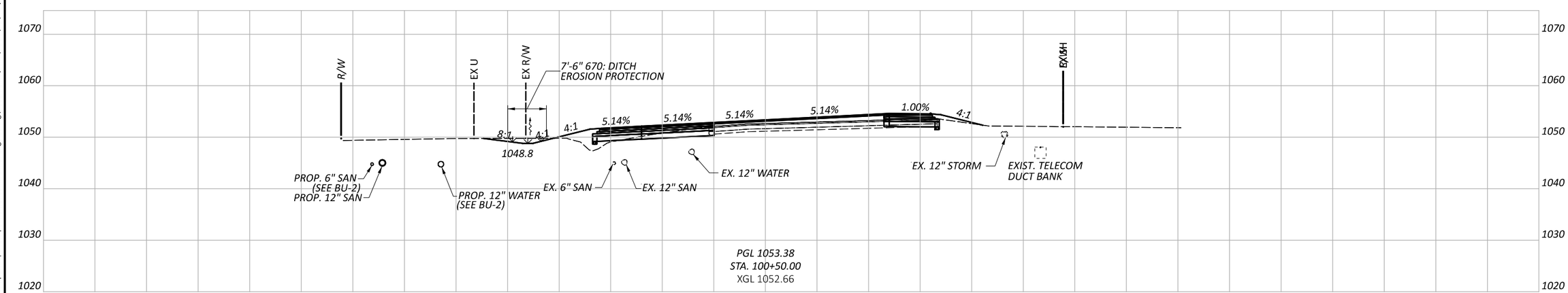

FAY-435-1.52

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CROSS SECTIONS - SR 435 - WEST ROUNDABOUT APPROACH
STA. 100+50 TO STA. 101+50

Sheet Totals		
Seeding	Cut	Fill

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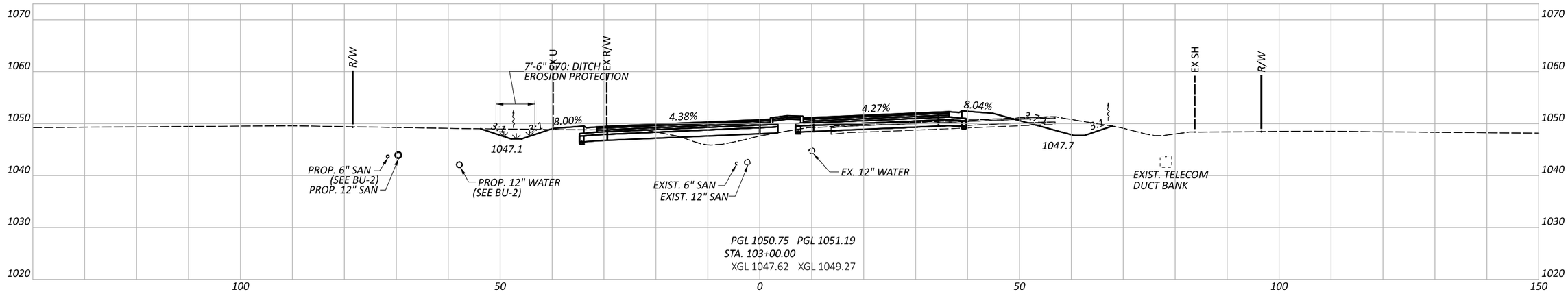
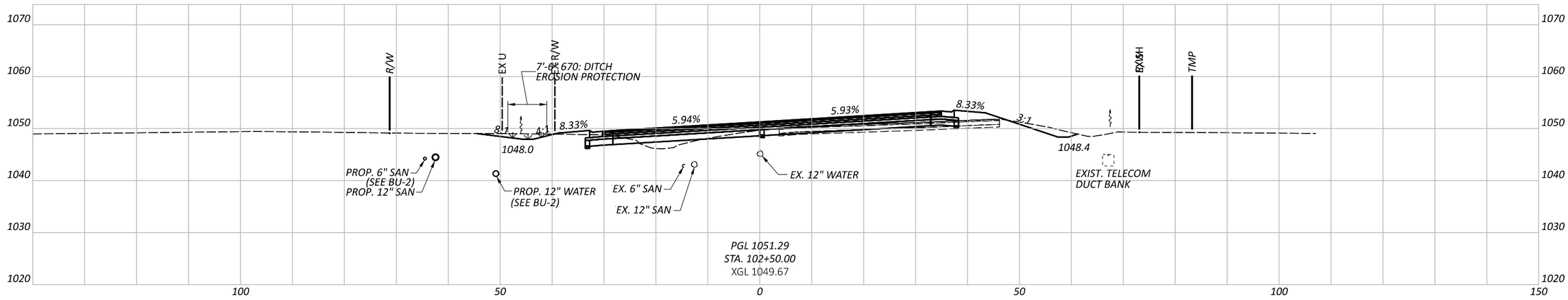
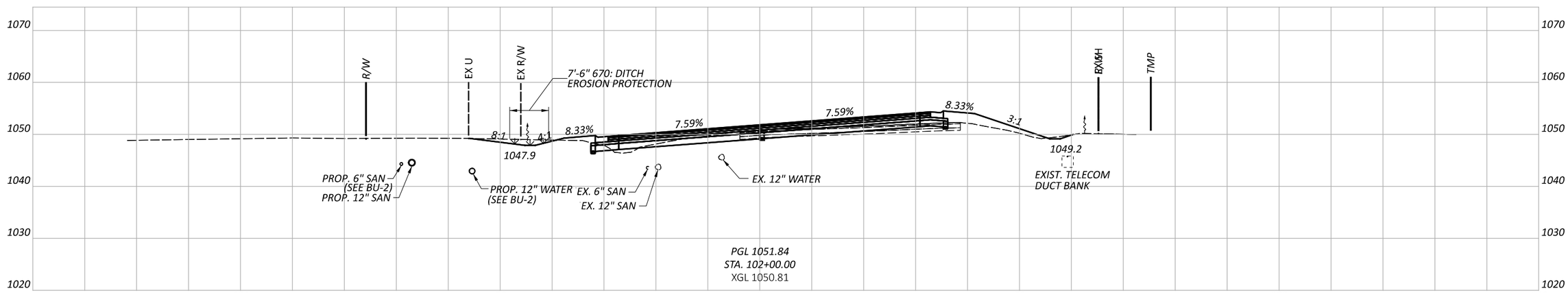
PROJECT ID	117955
SHEET	P. 157
TOTAL	246







CROSS SECTIONS - SR 435 - WEST ROUNDABOUT APPROACH STA.102+00 TO STA. 103+00

Sheet Totals		
Seeding	Cut	Fill

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8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 158 TOTAL: 246

FAY-435-1.52

MODEL: SR 435 WEST APPROACH - 102+00.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:37:45 PM USER: dan-f
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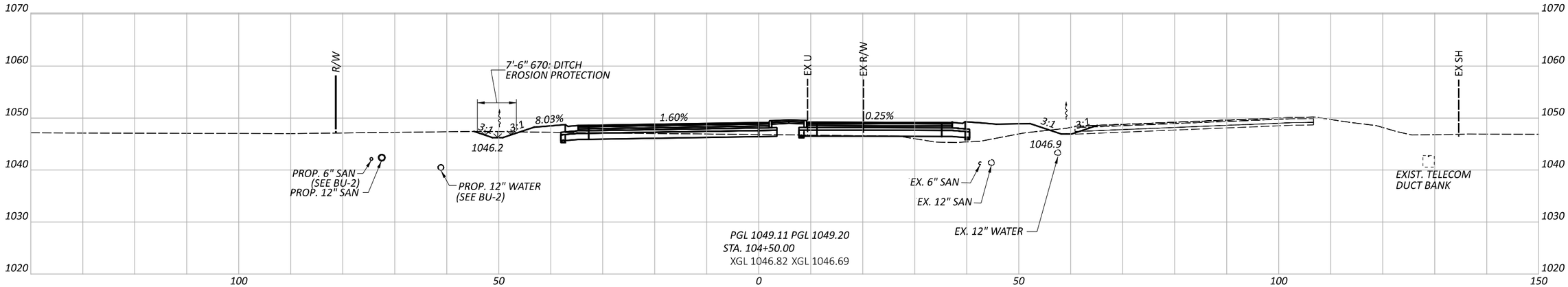

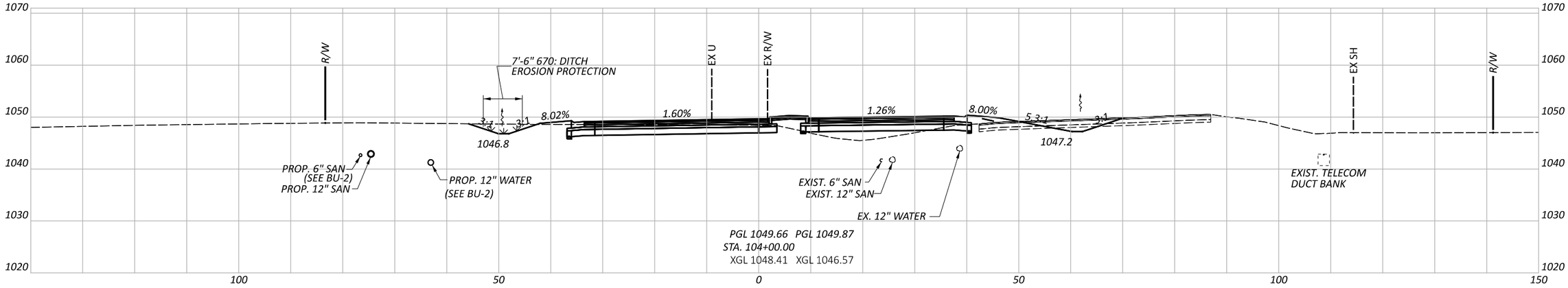

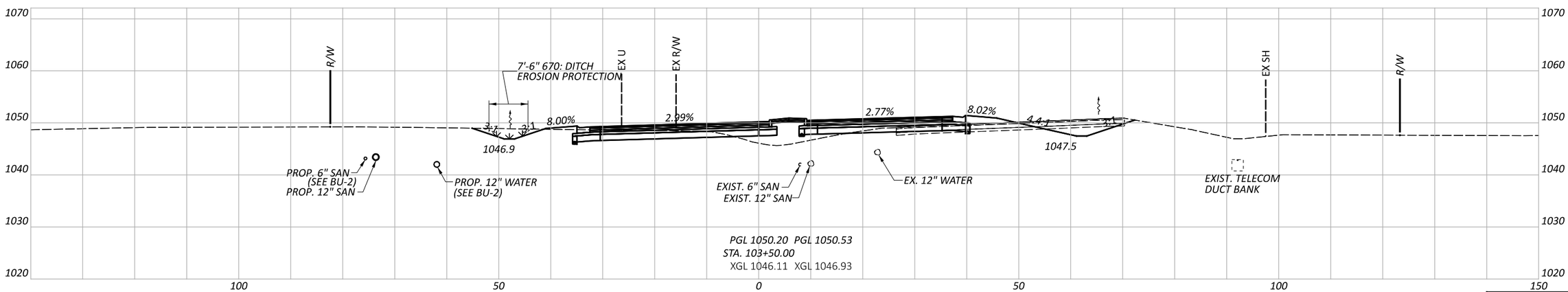

CROSS SECTIONS - SR 435 - WEST ROUNDABOUT APPROACH
STA. 103+50 TO STA. 104+50

DESIGN AGENCY	
Palmer ENGINEERING	8350 E. KEMPER RD. SUITE B CINCINNATI,OH 45249 513-469-1600
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PROJECT ID	117955

Sheet Totals		
Seeding	Cut	Fill

SHEET	TOTAL
P. 159	246

FAY-435-1.52

MODEL: SR 435 WEST APPROACH - 103+50.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:37:48 PM USER: dan-f
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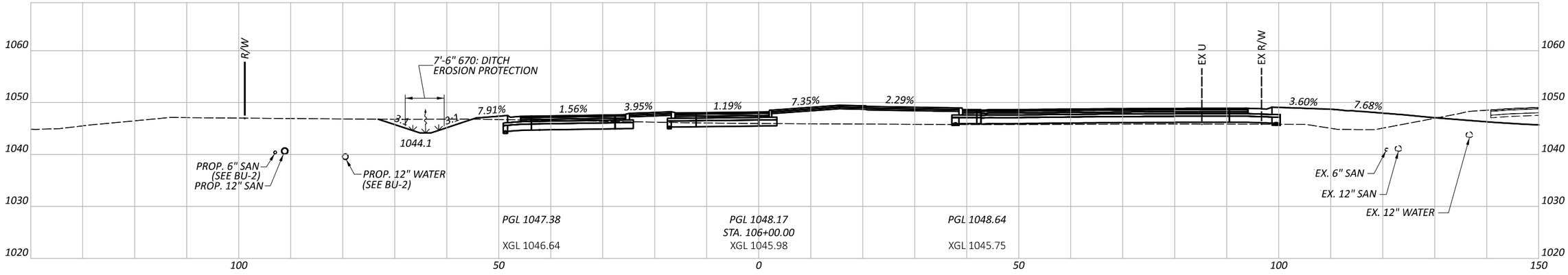

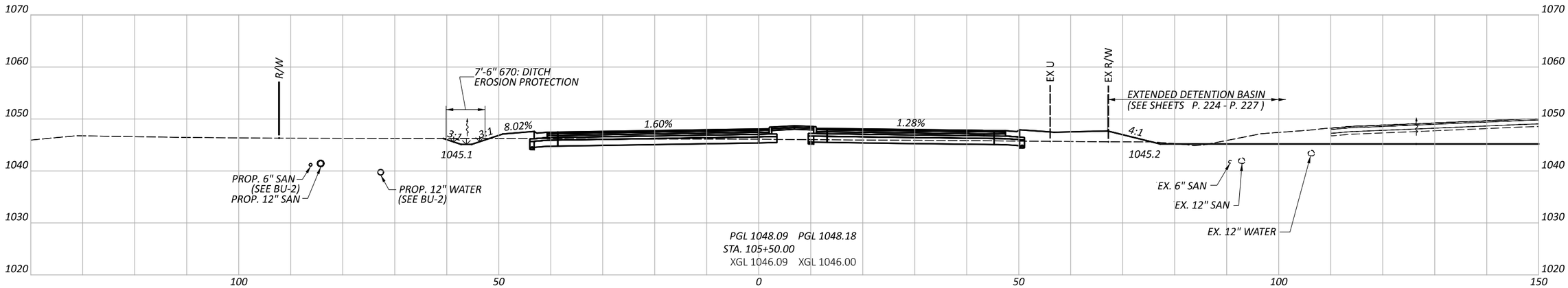

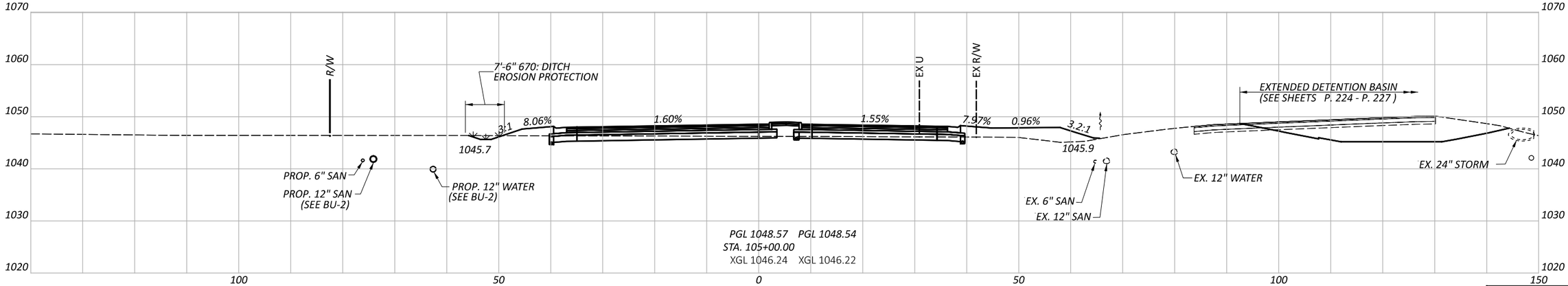

CROSS SECTIONS - SR 435 - WEST ROUNDABOUT APPROACH
STA. 105+00 TO STA. 106+00

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
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SHEET P. 160 | TOTAL 246

FAY-435-1.52

MODEL: SR 435 WEST APPROACH - 105+00.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:37:52 PM USER: dan-f
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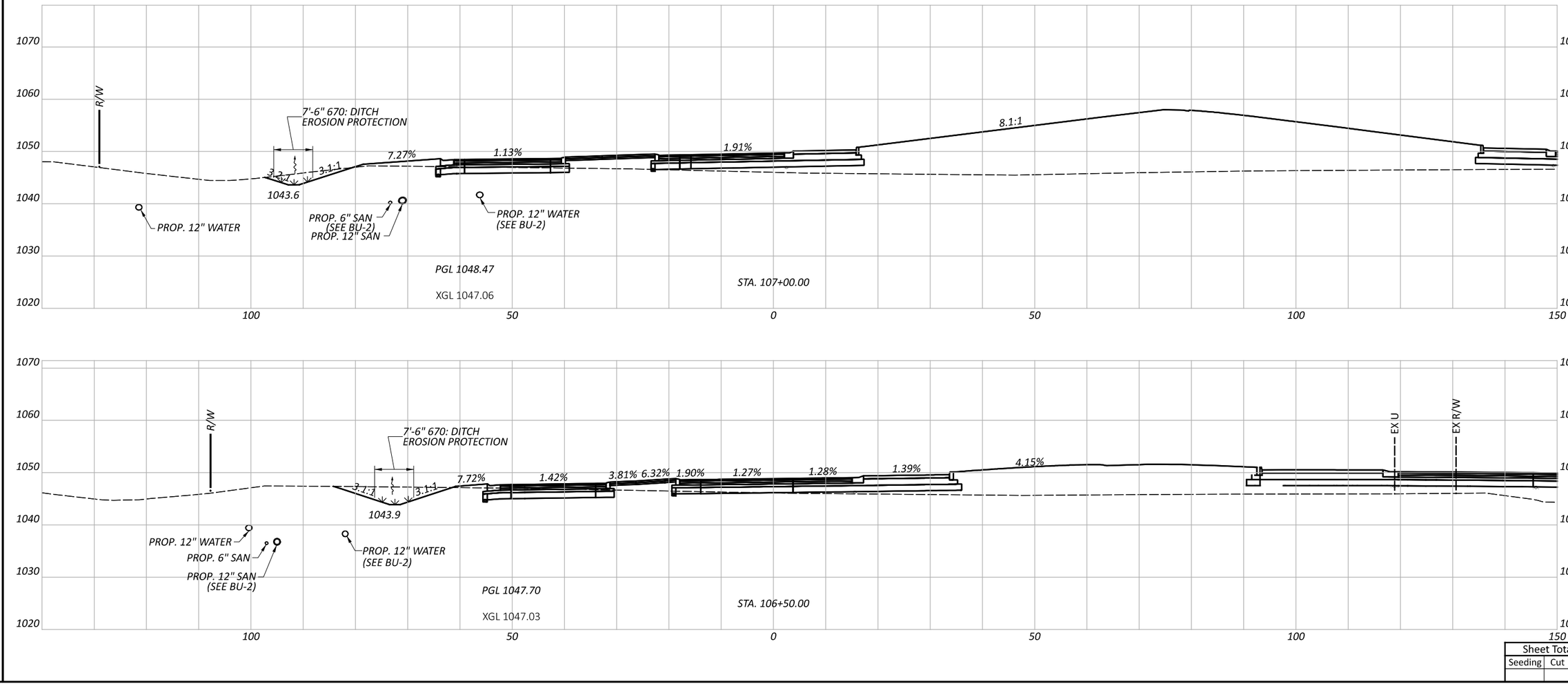

CROSS SECTIONS - SR 435 - WEST ROUNDABOUT APPROACH
STA. 106+50 TO STA. 107+00

FAY-435-1.52

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Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
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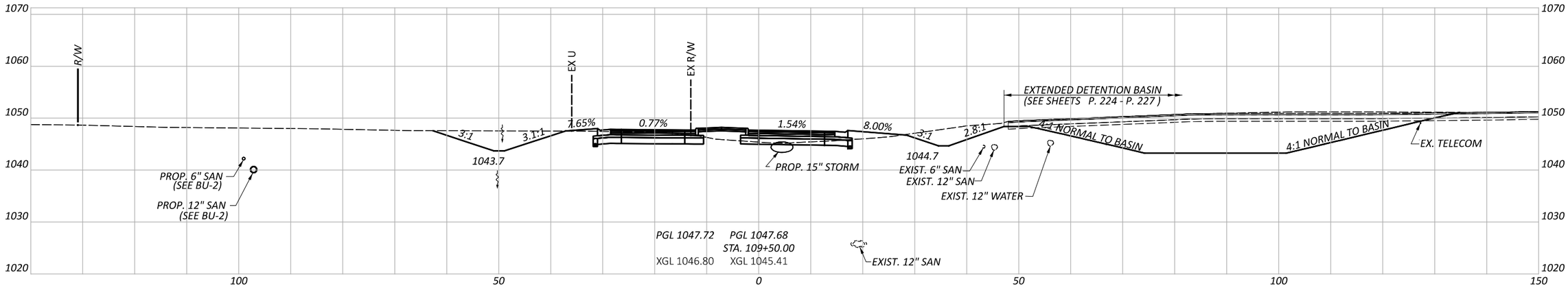
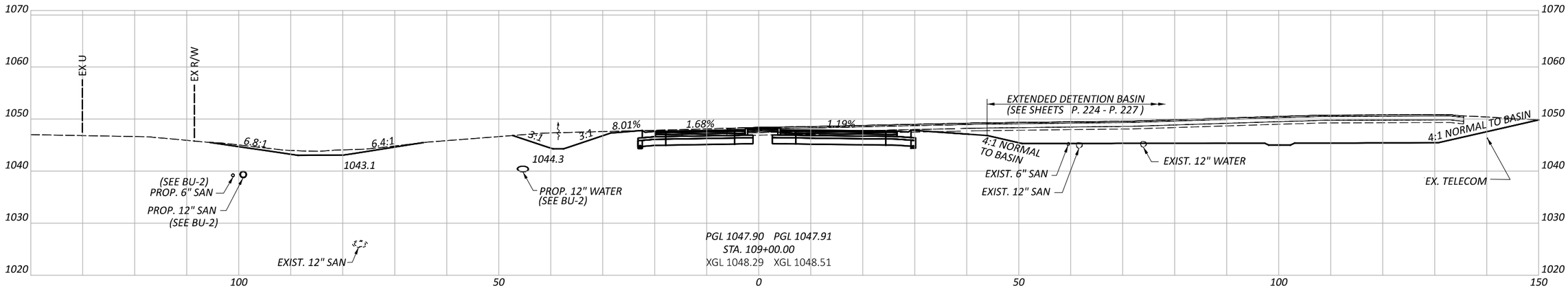
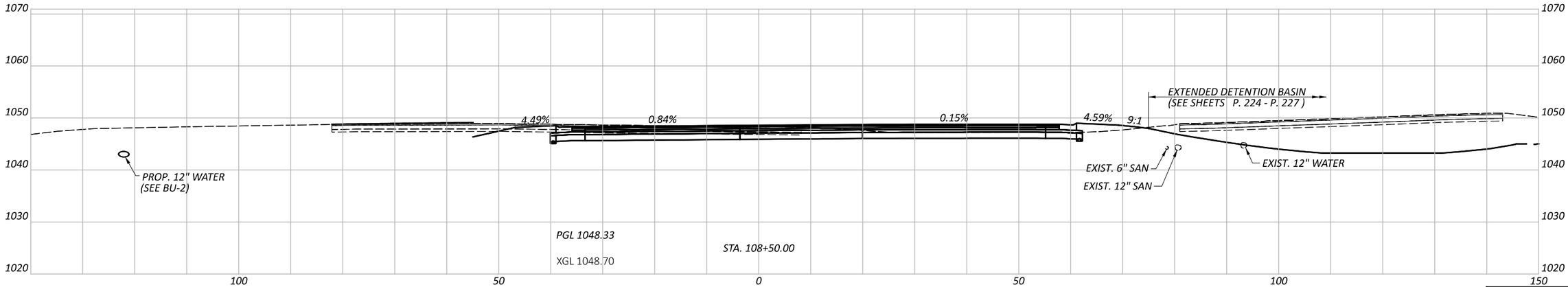
117955

SHEET P. 161 | TOTAL 246







CROSS SECTIONS - SR 435 - EAST ROUNDABOUT APPROACH STA. 108+50 TO STA. 109+50

FAY-435-1.52

MODEL: SR 435 EAST APPROACH - 108+50.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:37:58 PM USER: dan-f
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DESIGNER: DPF
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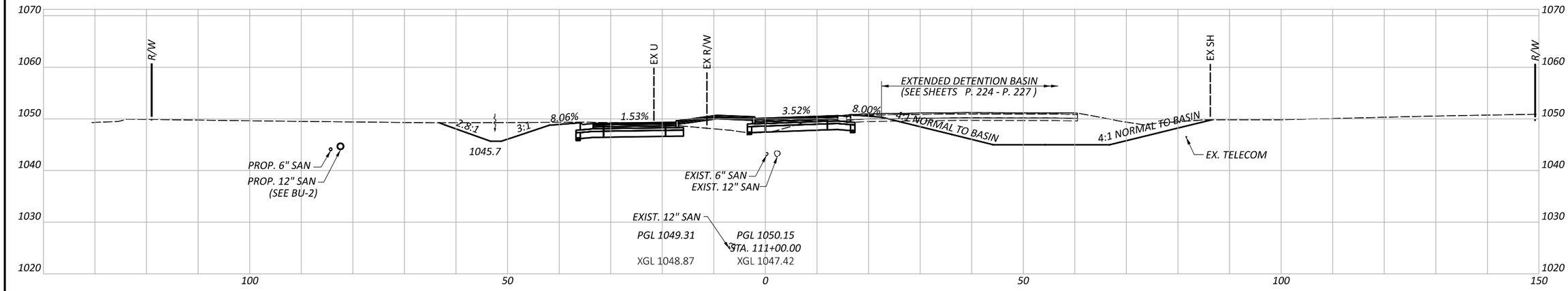
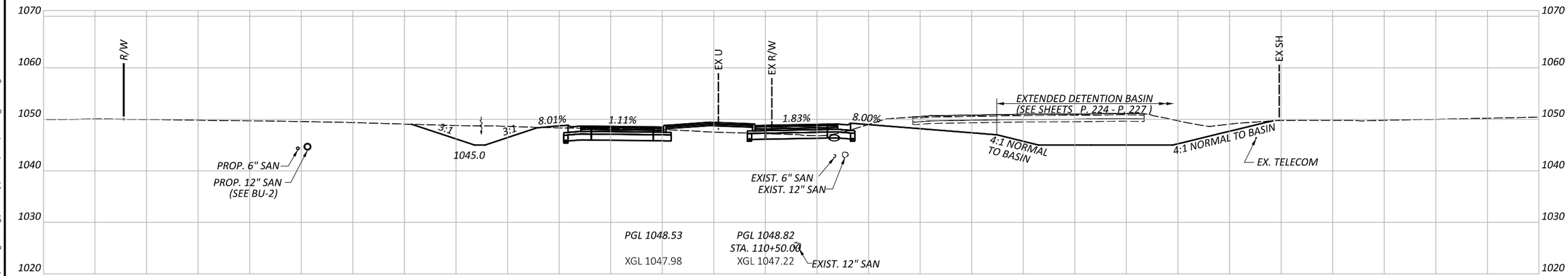
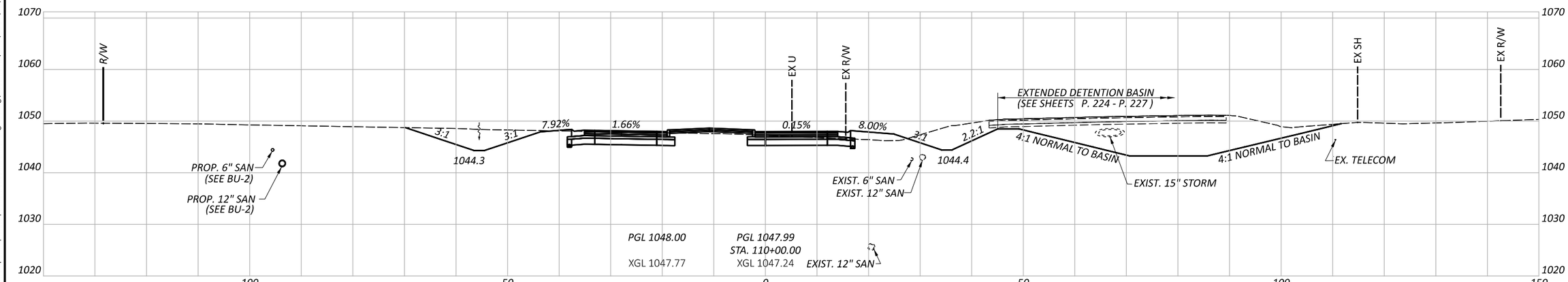
PROJECT ID: 117955
SHEET: P. 162 TOTAL: 246

Sheet Totals

Seeding	Cut	Fill







CROSS SECTIONS - SR 435 - EAST ROUNDABOUT APPROACH
STA.110+00 TO STA. 111+00

Sheet Totals		
Seeding	Cut	Fill

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SHEET P. 163 | TOTAL 246

FAY-435-1.52

MODEL: SR 435 EAST APPROACH - 110+00.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:38:02 PM USER: dan-f
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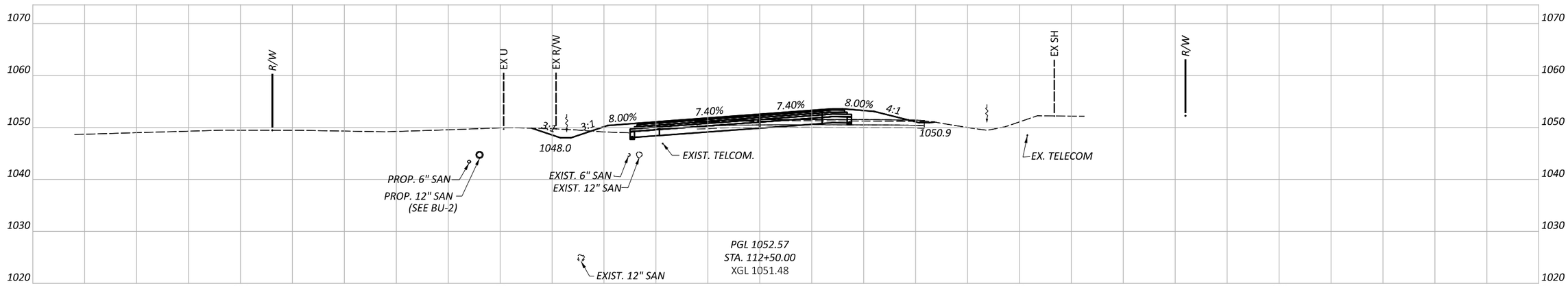

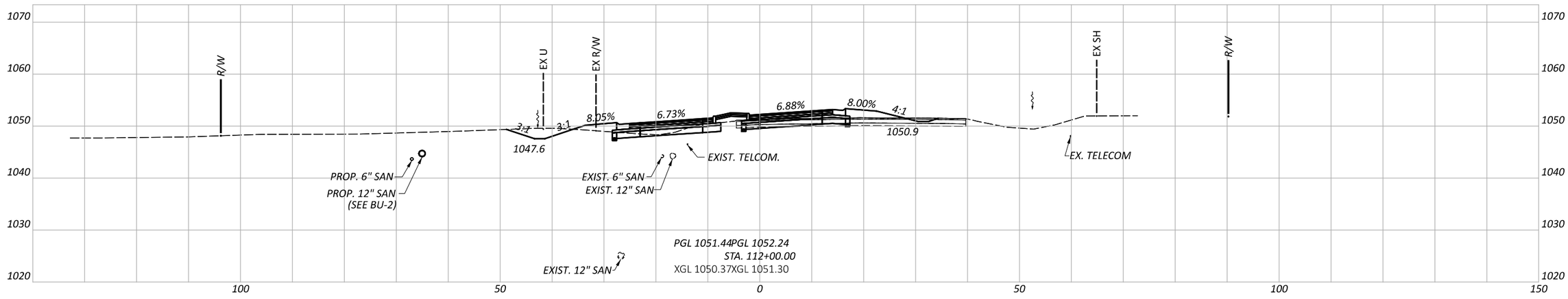

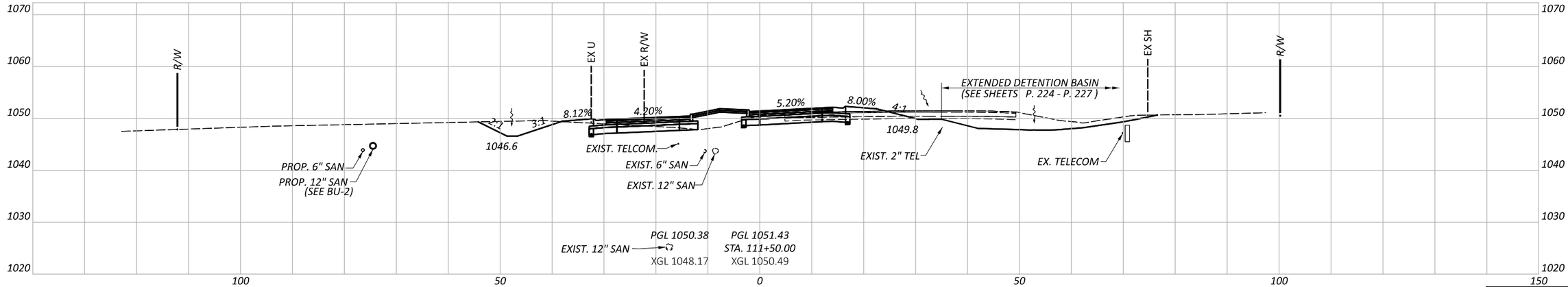

CROSS SECTIONS - SR 435 - EAST ROUNDABOUT APPROACH
STA. 111+50 TO STA. 112+50

Sheet Totals		
Seeding	Cut	Fill

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DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 164 TOTAL: 246

FAY-435-1.52

MODEL: SR 435 EAST APPROACH - 111+50.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:38:06 PM USER: dan-f
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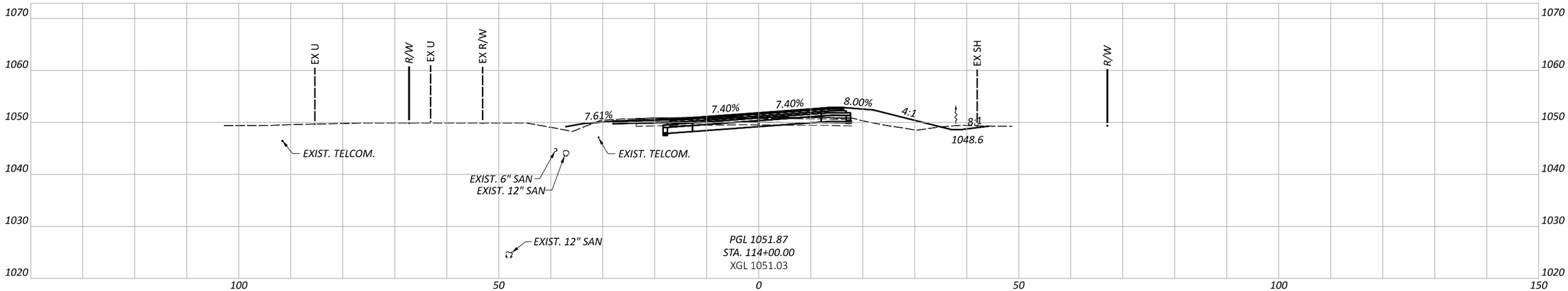

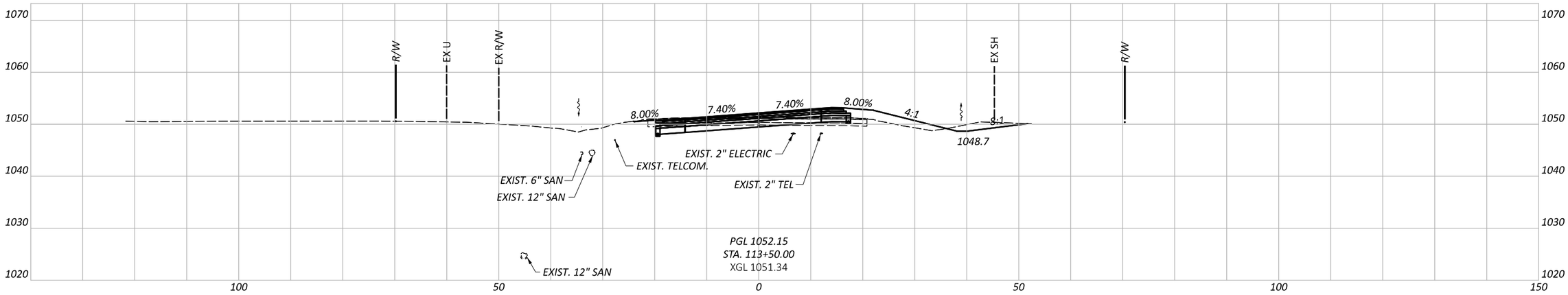

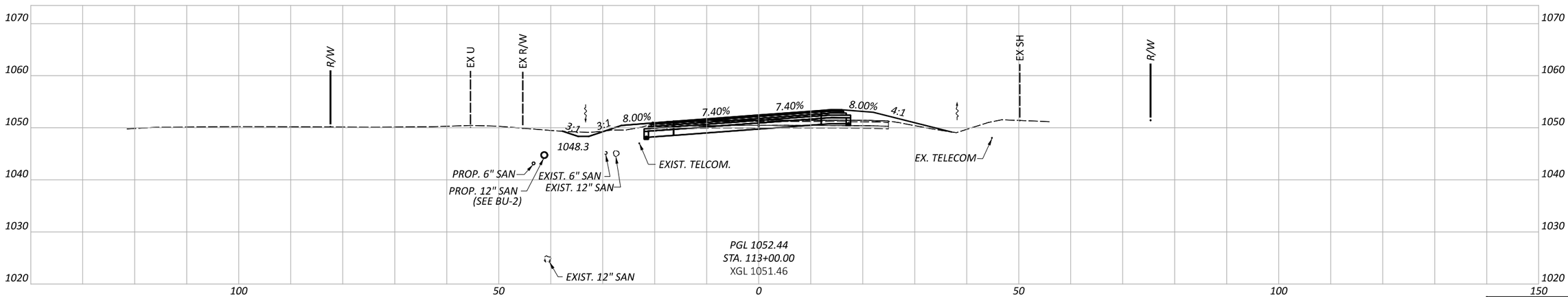

FAY-435-1.52

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CROSS SECTIONS - SR 435 - EAST ROUNDABOUT APPROACH
STA. 113+00 TO STA. 114+00

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
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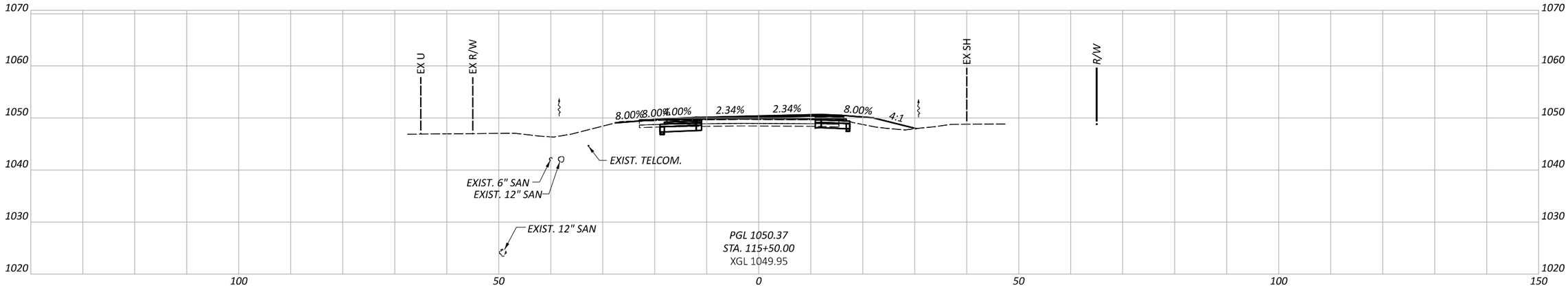
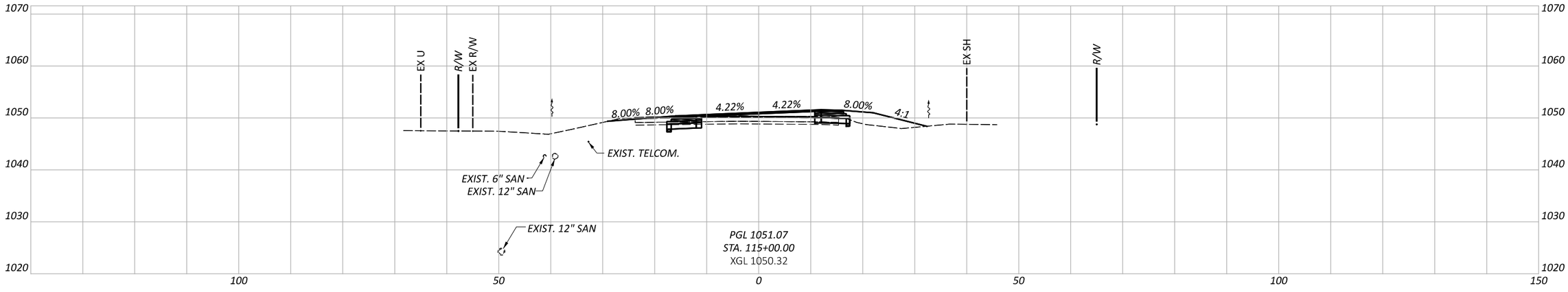
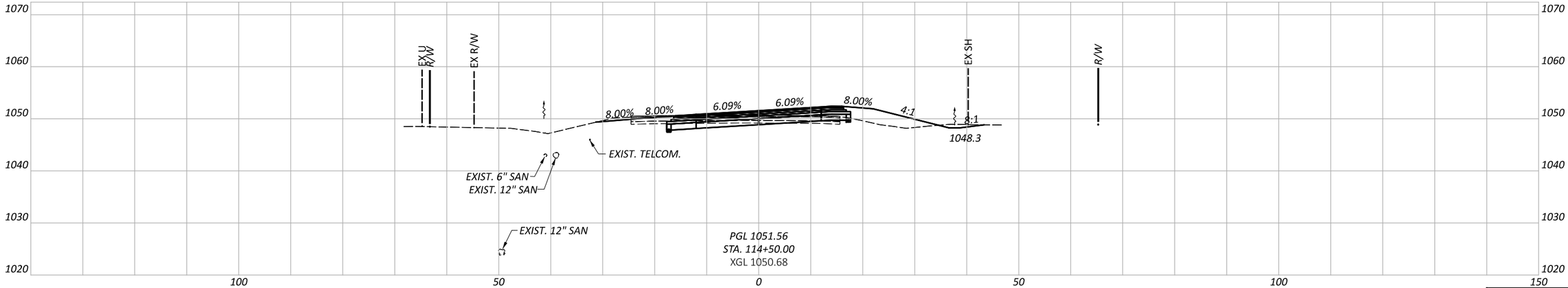
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER	DPF
REVIEWER	DCJ 05/10/24
PROJECT ID	117955
SHEET	P. 165
TOTAL	246







CROSS SECTIONS - SR 435 - EAST ROUNDABOUT APPROACH
STA. 114+50 TO STA. 115+50

FAY-435-1.52

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Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
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SUITE B
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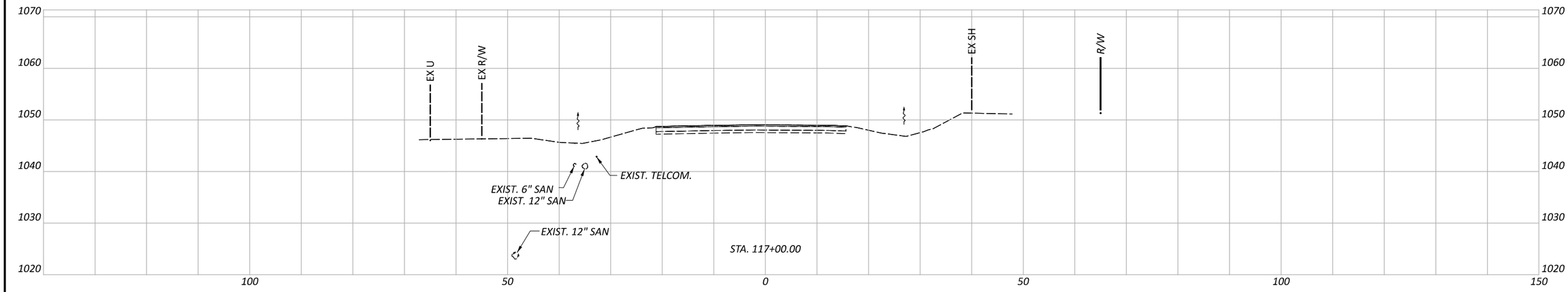
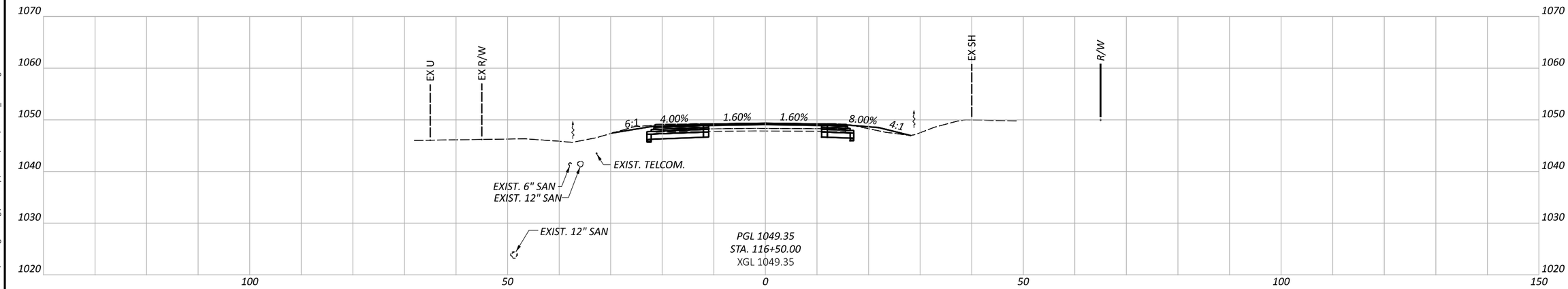
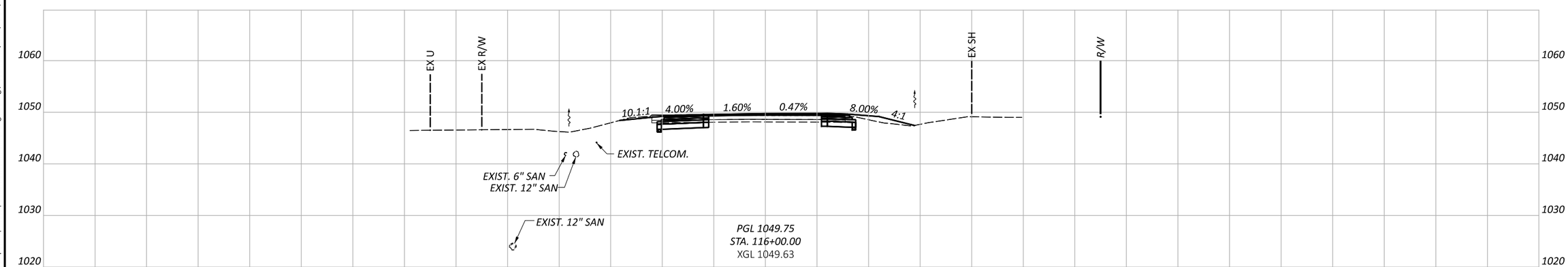
513-469-1600

DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 166 TOTAL: 246







FAY-435-1.52

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CROSS SECTIONS - SR 435 - EAST ROUNDABOUT APPROACH
STA. 116+00 TO STA. 117+00

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
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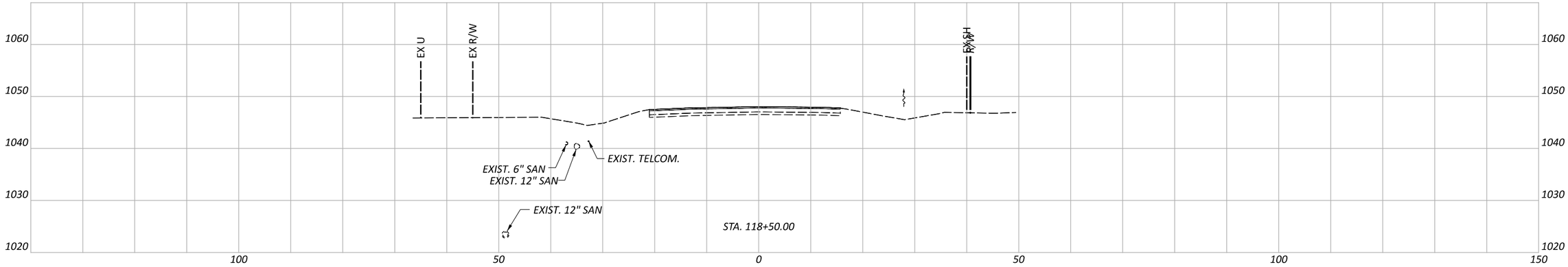
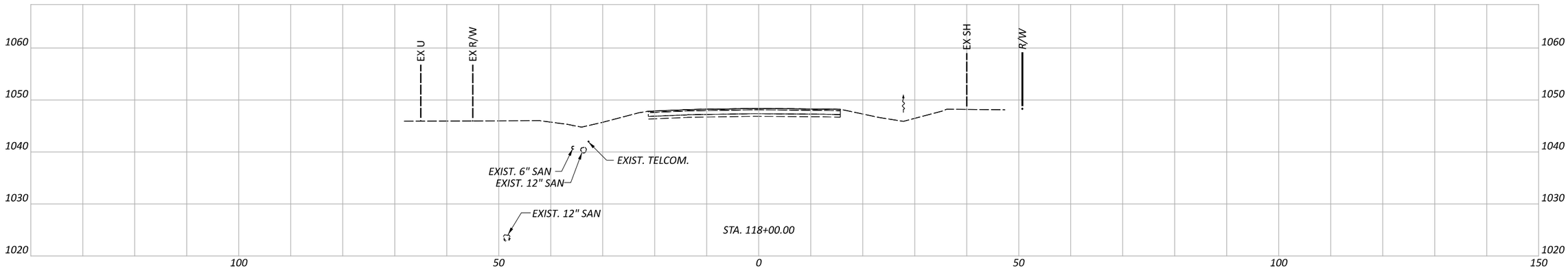
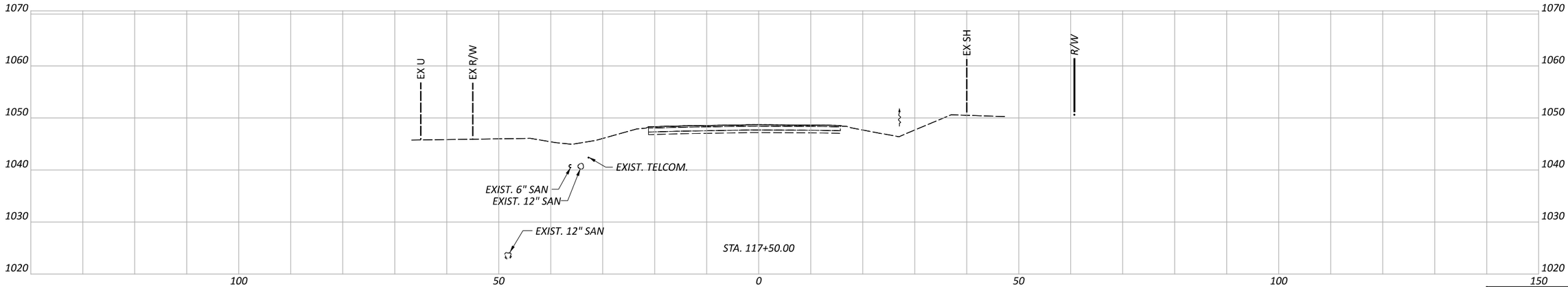
117955

SHEET P. 167 | TOTAL 246







FAY-435-1.52

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CROSS SECTIONS - SR 435 - EAST ROUNDABOUT APPROACH
STA. 117+50 TO STA. 118+50

DESIGN AGENCY
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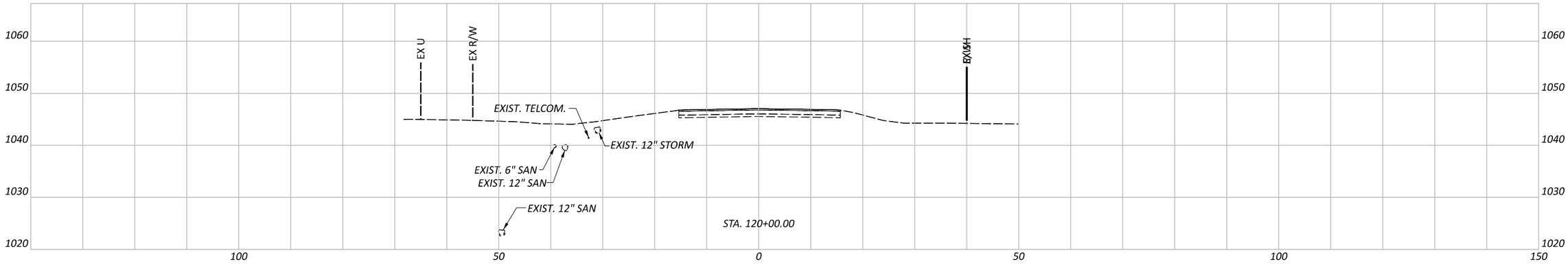
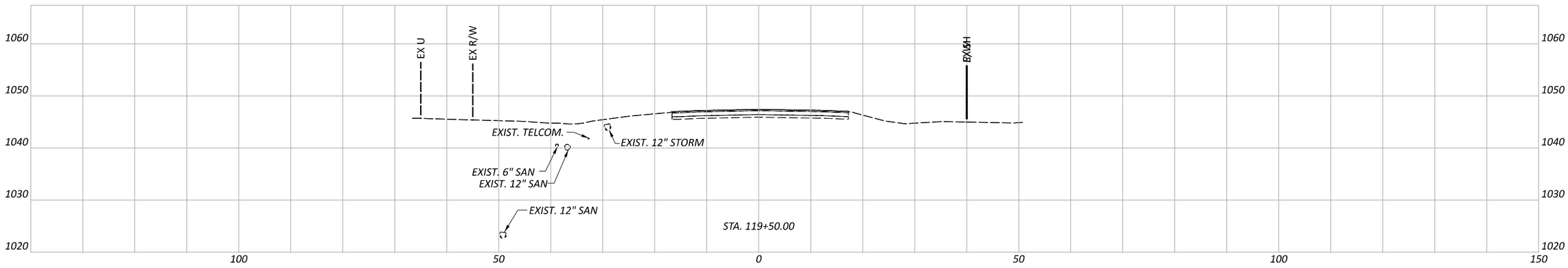
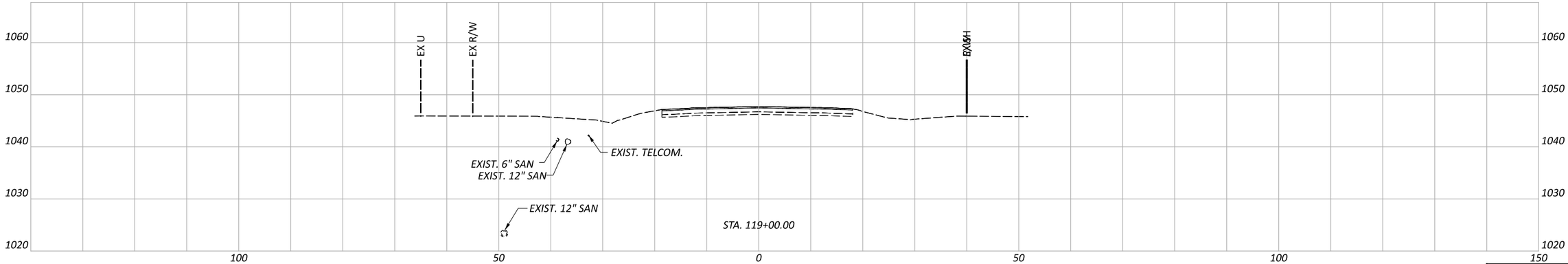
DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955

Sheet Totals		
Seeding	Cut	Fill

SHEET: P. 168 TOTAL: 246







CROSS SECTIONS - SR 435 - EAST ROUNDABOUT APPROACH
STA. 119+00 TO STA. 120+00

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 169 TOTAL: 246

FAY-435-1.52

MODEL: SR 435 EAST APPROACH - 119+00.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:38:21 PM USER: dan-f
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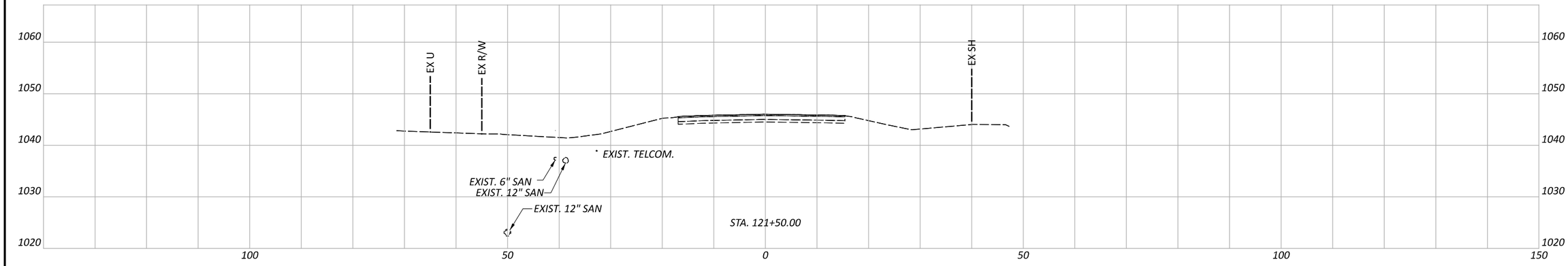

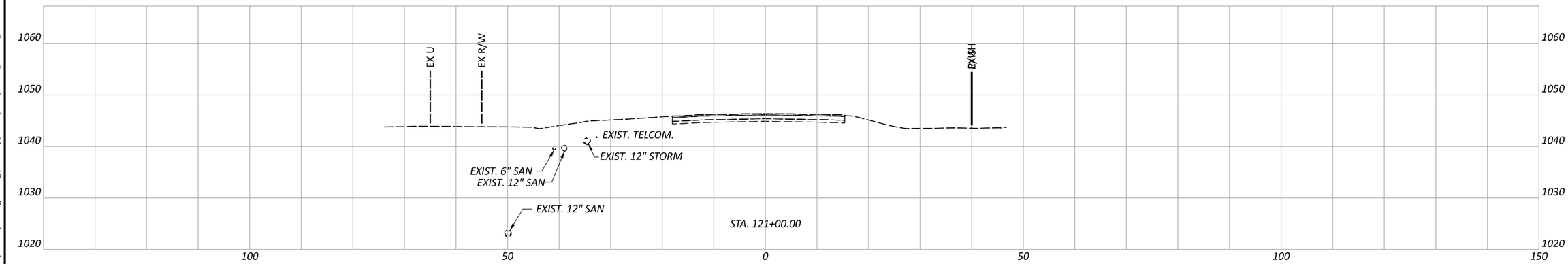

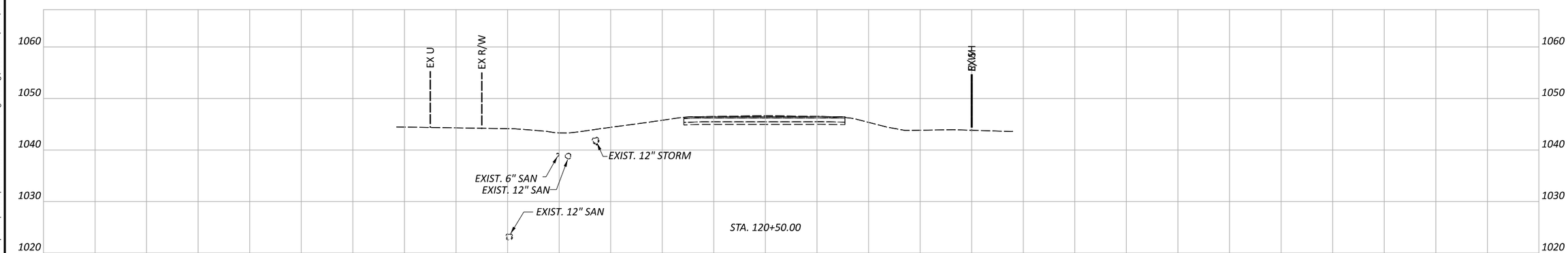

CROSS SECTIONS - SR 435 - EAST ROUNDABOUT APPROACH
STA. 120+50 TO STA. 121+50

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
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SHEET P. 170 | TOTAL 246

FAY-435-1.52

MODEL: SR 435 EAST APPROACH - 120+50.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:38:24 PM USER: dan-f
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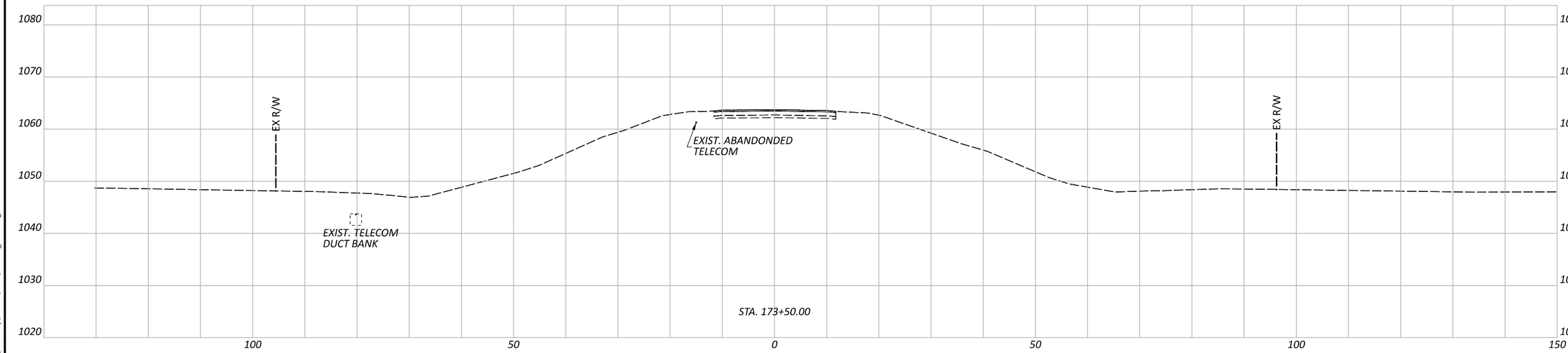
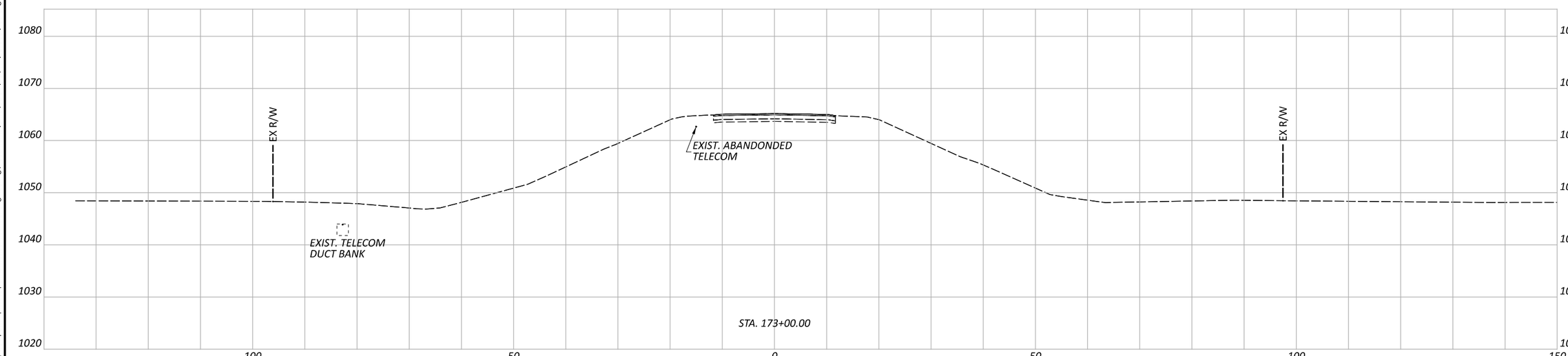




CROSS SECTIONS - SR 729 - SOUTH ROUNDABOUT APPROACH
STA. 173+00 TO STA. 173+50

FAY-435-1.52

MODEL: SR 729 SOUTH APPROACH - 173+00.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:38:40 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D61\FAY\117955\V400-Engineering\Roadway\Sheets\BU-5\117955_XS010.dgn

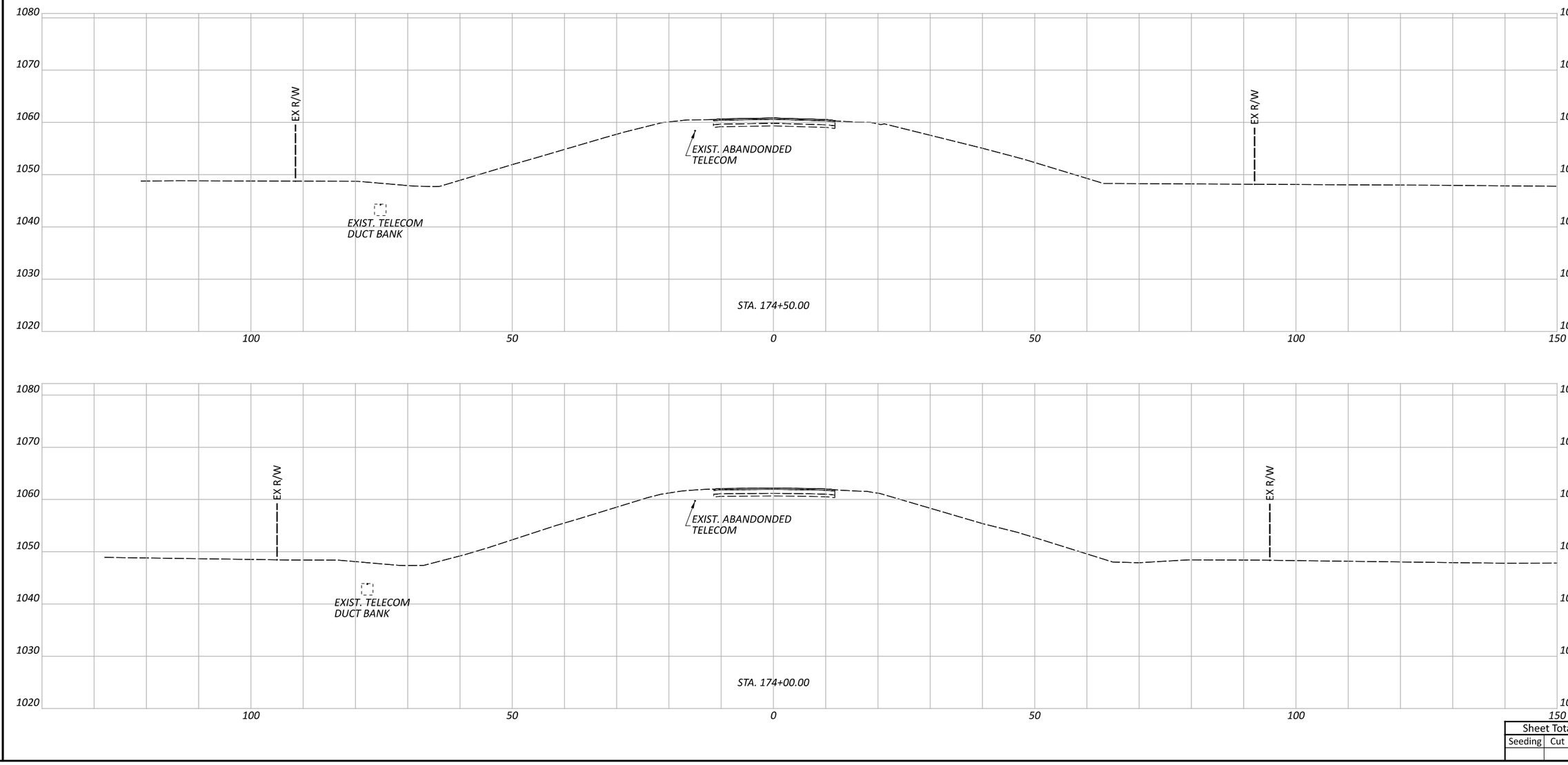
Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY

Palmer ENGINEERING

8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER	DPF
REVIEWER	DCJ 05/10/24
PROJECT ID	117955
SHEET	P. 171
TOTAL	246



FAY-435-1.52

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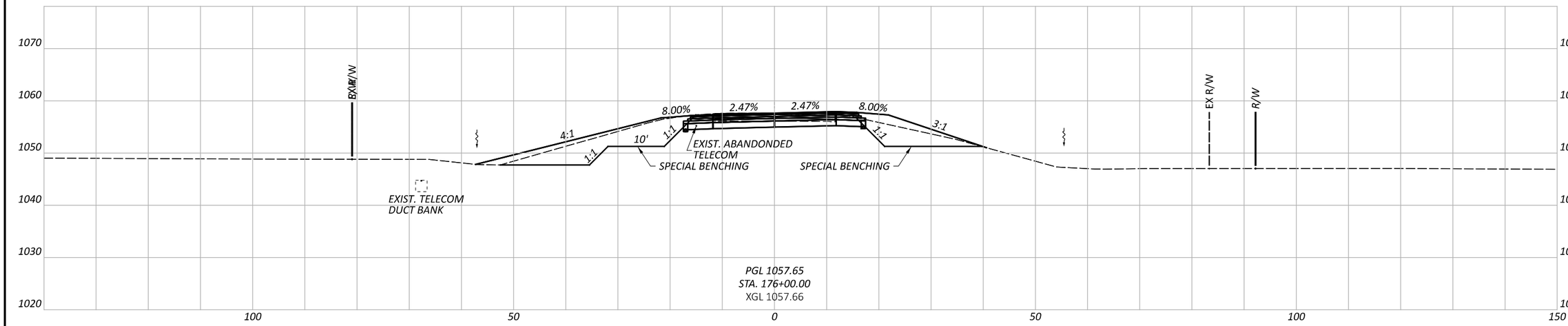
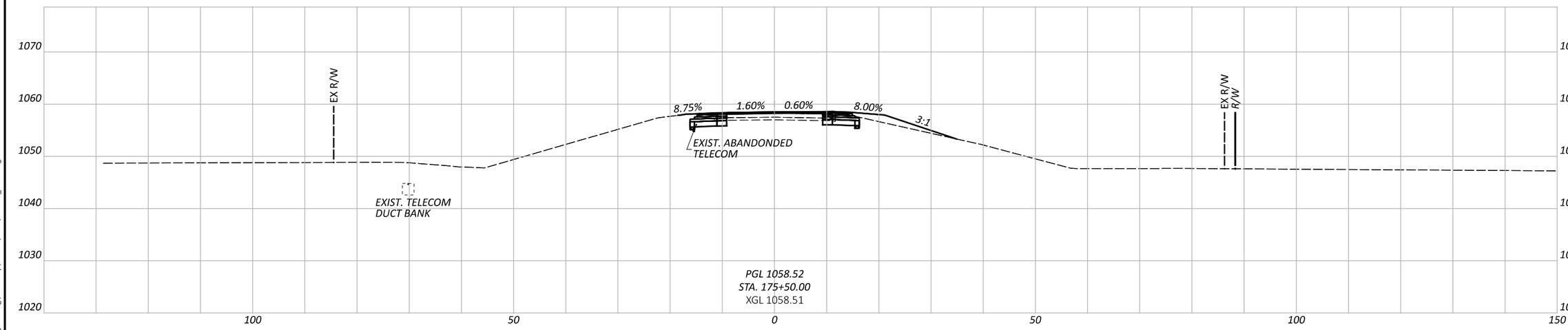
CROSS SECTIONS - SR 729 - SOUTH ROUNDABOUT APPROACH
STA. 174+00 TO STA. 174+50

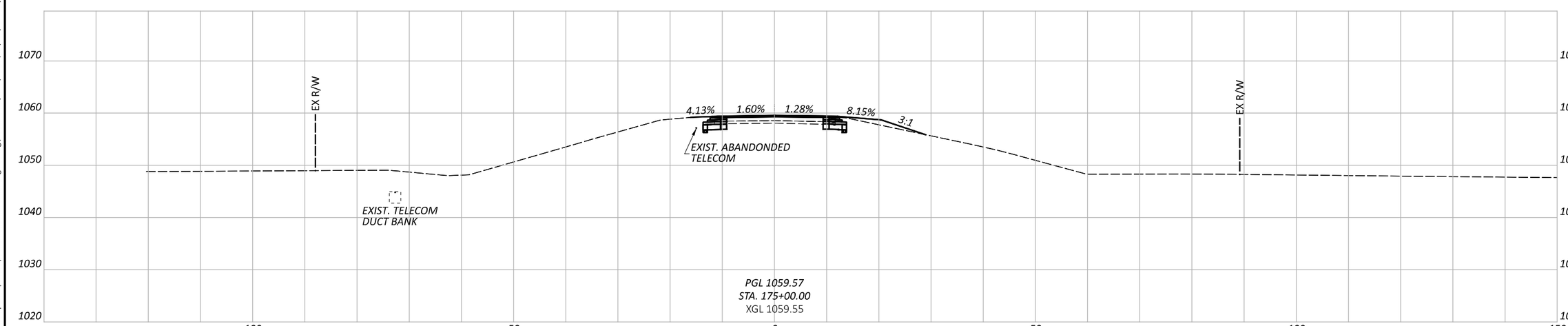
Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 172
TOTAL: 246







CROSS SECTIONS - SR 729 - SOUTH ROUNDABOUT APPROACH
STA. 175+00 TO STA. 176+00

FAY-435-1.52

MODEL: SR 729 SOUTH APPROACH - 175+00.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:38:45 PM USER: dan-f
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Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
Palmer ENGINEERING
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SUITE B
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PROJECT ID
117955

SHEET P. 173 TOTAL 246

CROSS SECTIONS - SR 729 - SOUTH ROUNDABOUT APPROACH
STA. 176+50 TO STA. 177+50

FAY-435-1.52

MODEL: SR 729 SOUTH APPROACH - 176+50.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:38:48 PM USER: dan-f
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Sheet Totals		
Seeding	Cut	Fill

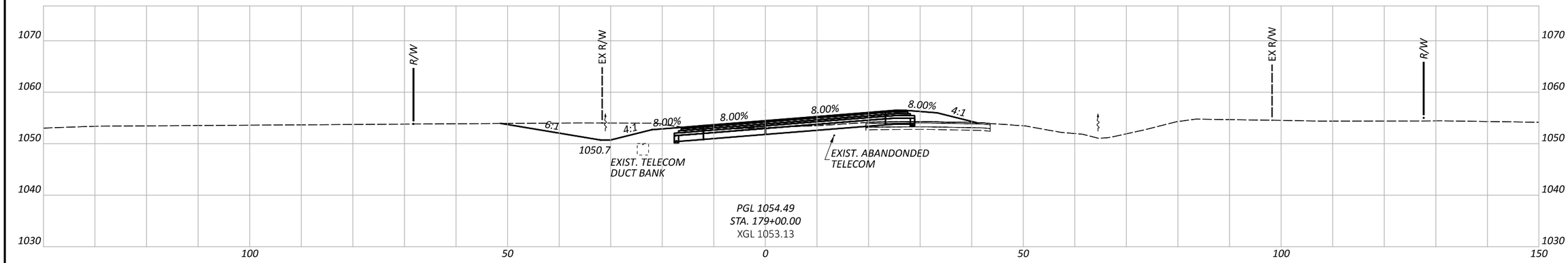
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

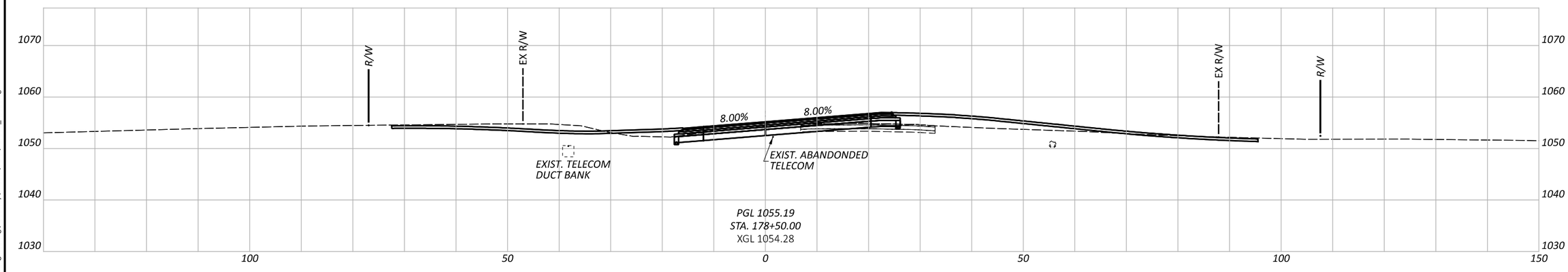
DESIGNER: DPF

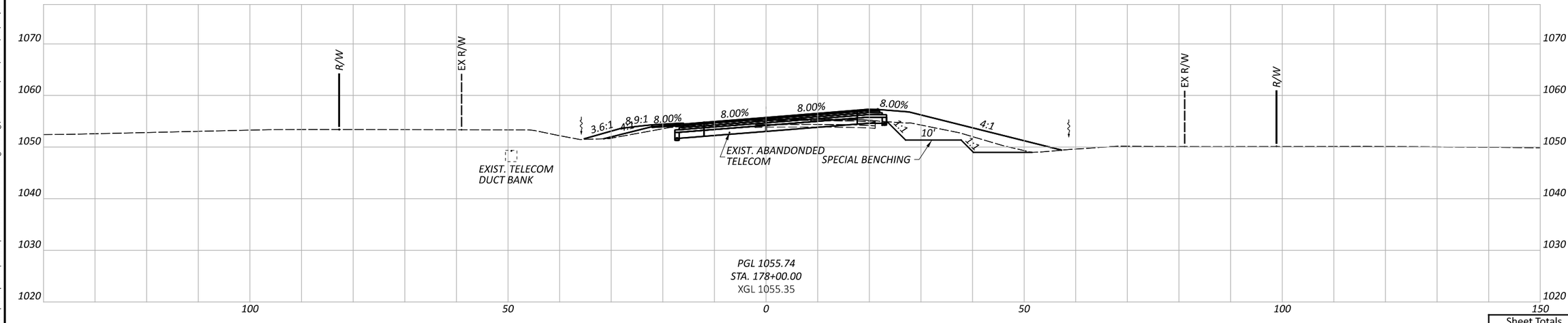
REVIEWER: DCJ 05/10/24

PROJECT ID: 117955

SHEET: P. 174 TOTAL: 246







CROSS SECTIONS - SR 729 - SOUTH ROUNDABOUT APPROACH
STA. 178+00 TO STA. 179+00

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
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PROJECT ID
117955

SHEET P. 175 TOTAL 246

FAY-435-1.52

MODEL: SR 729 SOUTH APPROACH -178+00.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:38:51 PM USER: dan-f
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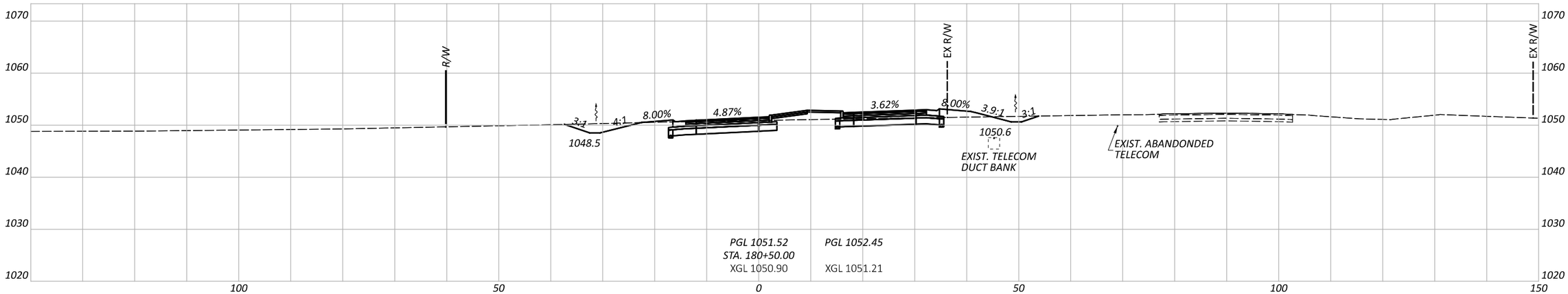

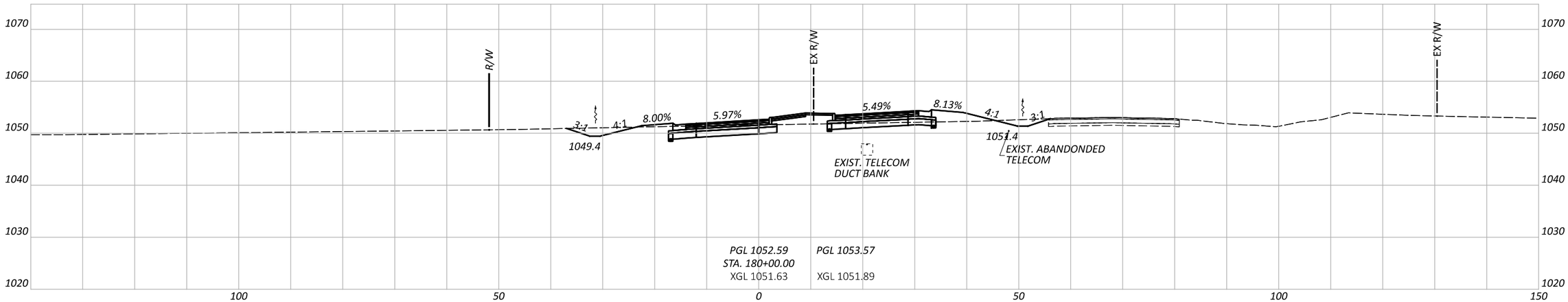

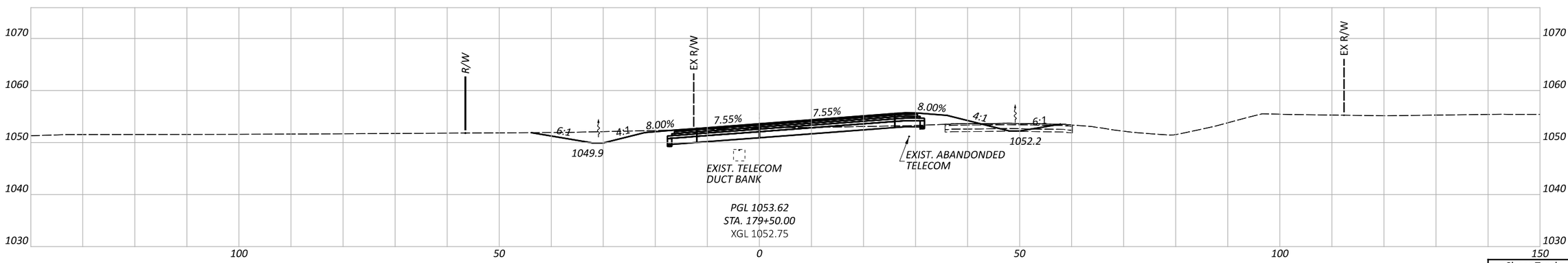

Sheet Totals

Seeding	Cut	Fill

CROSS SECTIONS - SR 729 - SOUTH ROUNDABOUT APPROACH STA. 179+50 TO STA. 180+50

DESIGN AGENCY

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DESIGNER: DPF

REVIEWER: DCJ 05/10/24

PROJECT ID: 117955

SHEET: P. 176 TOTAL: 246

FAY-435-1.52

MODEL: SR 729 SOUTH APPROACH - 179+50.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:38:55 PM USER: dan-f
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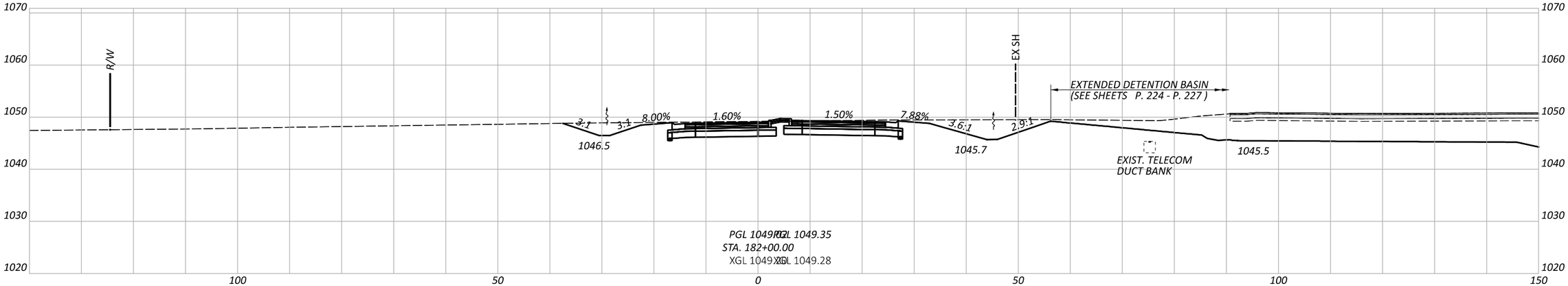

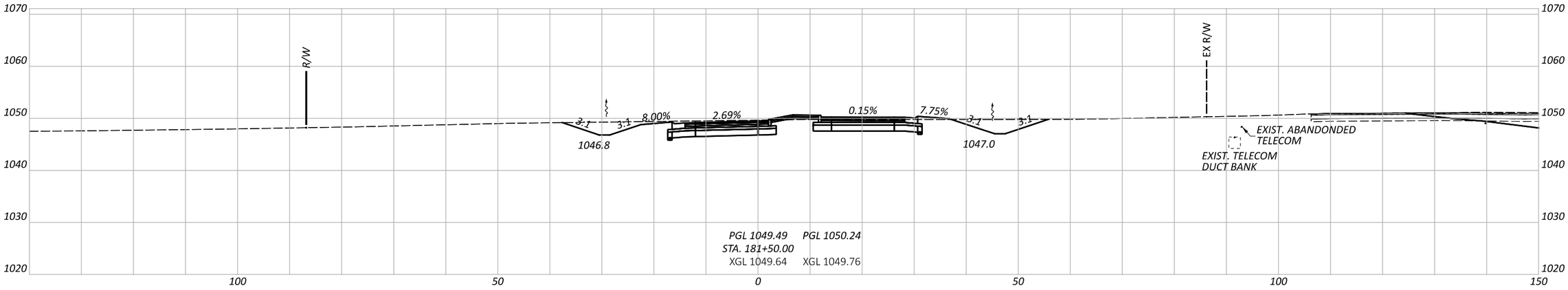

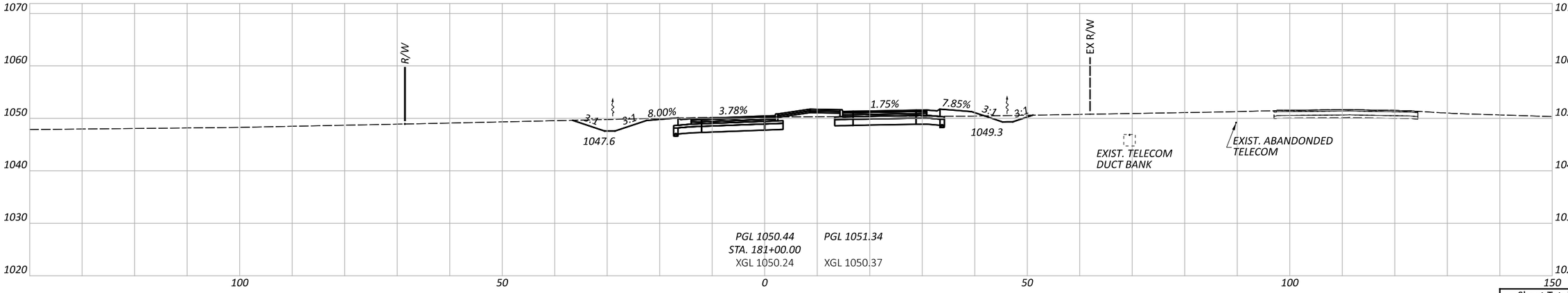

CROSS SECTIONS - SR 729 - SOUTH ROUNDABOUT APPROACH
STA. 181+00 TO STA. 182+00

FAY-435-1.52

MODEL: SR 729 SOUTH APPROACH - 181+00.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:38:58 PM USER: dan-f
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Sheet Totals		
Seeding	Cut	Fill

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SUITE B
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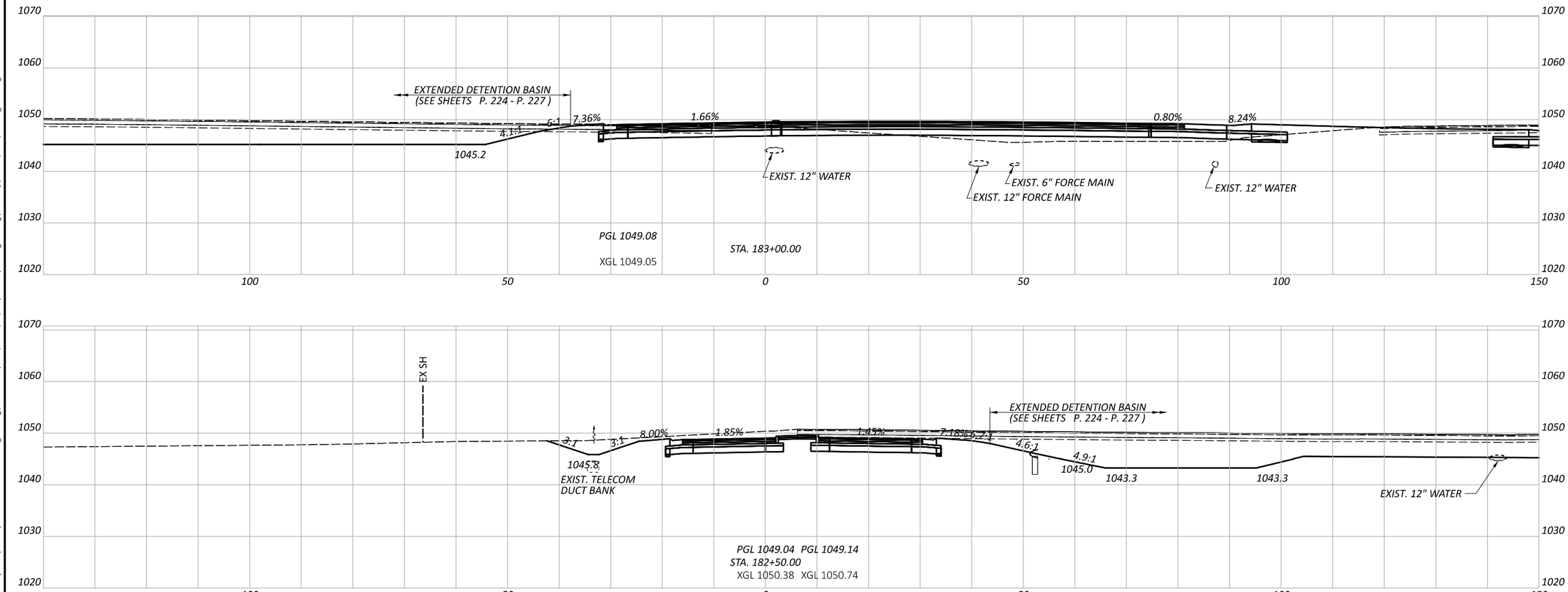
DESIGNER DPF

REVIEWER DCJ 05/10/24

PROJECT ID 117955

SHEET P. 177 TOTAL 246



CROSS SECTIONS - SR 729 - SOUTH ROUNDABOUT APPROACH
STA. 182+50 TO STA. 183+00

FAY-435-1.52

MODEL: SR 729 SOUTH APPROACH - 182+50.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:39:03 PM USER: dan-f
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Sheet Totals		
Seeding	Cut	Fill

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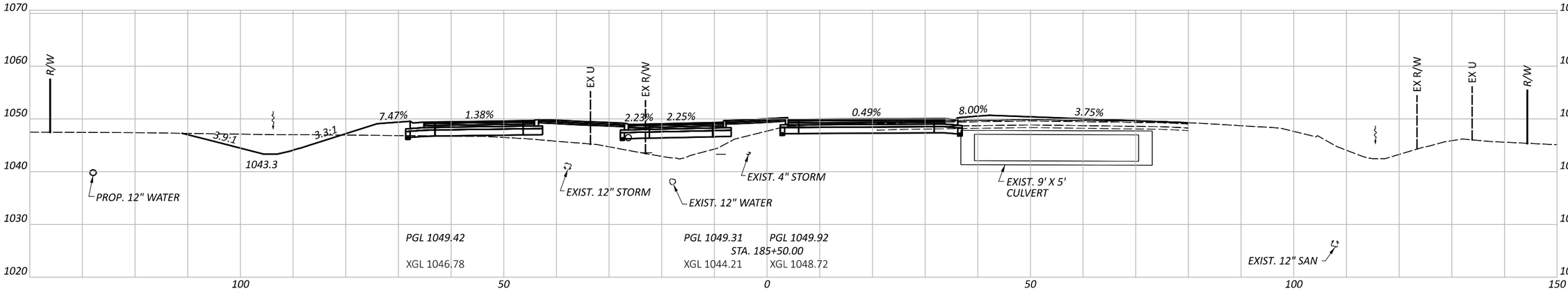
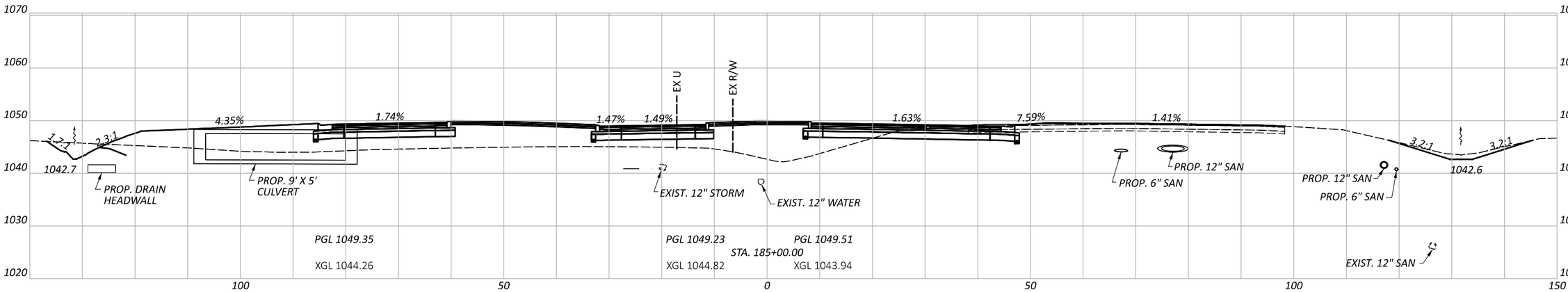
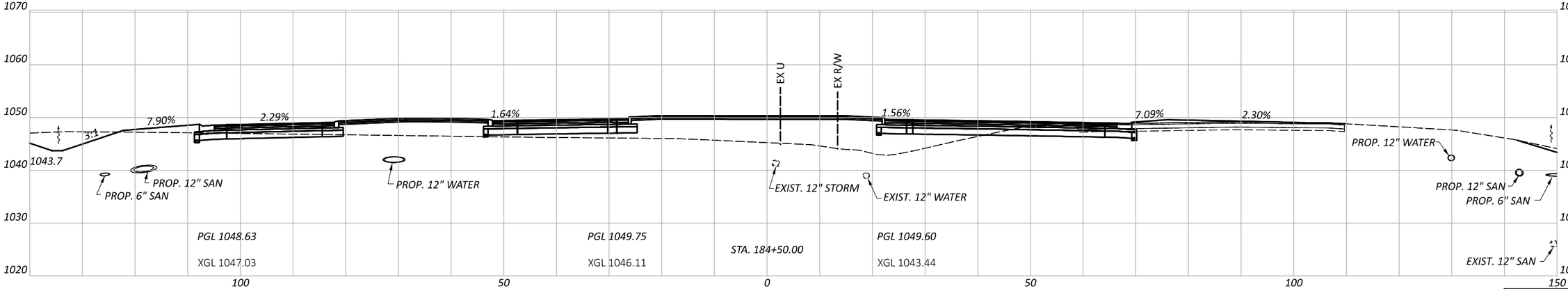
117955

SHEET P. 178 | TOTAL 246







CROSS SECTIONS - BLUEGRASS - NORTH ROUNDABOUT APPROACH STA. 184+50 TO STA. 185+50

FAY-435-1.52

MODEL: CLP_BLUEGRASS - 184+50.00-1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:39:13 PM USER: dan-f
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Sheet Totals		
Seeding	Cut	Fill

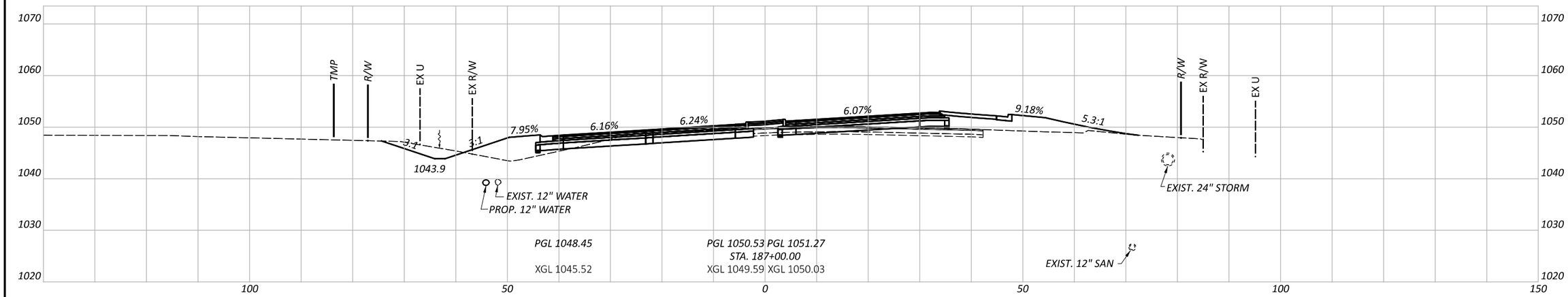
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

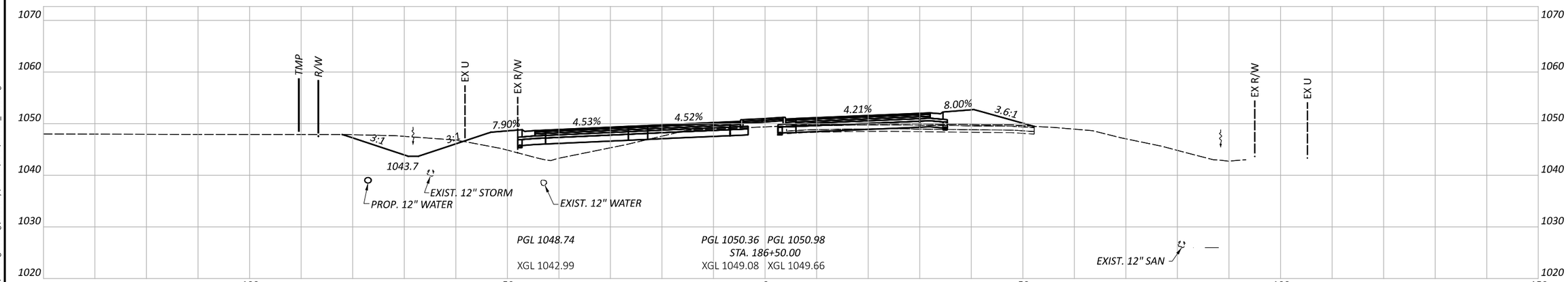
DESIGNER
DPF

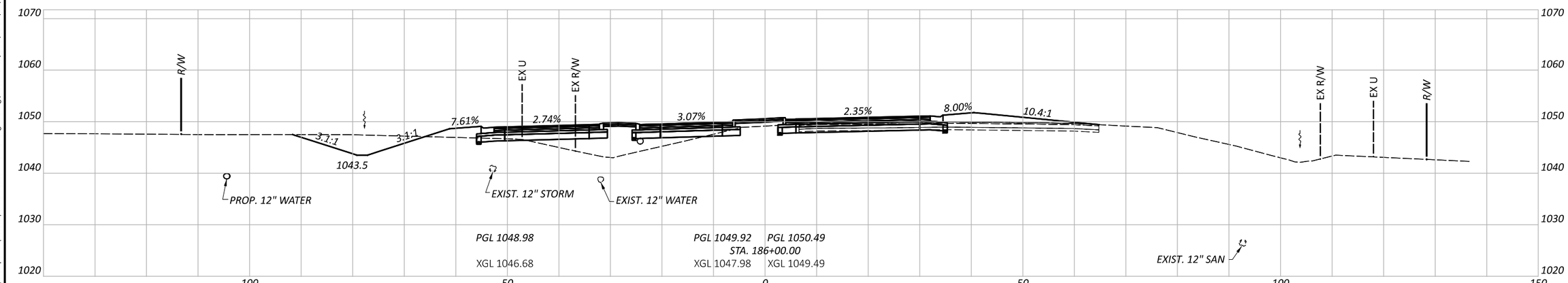
REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 179 | TOTAL 246







CROSS SECTIONS - BLUEGRASS - NORTH ROUNDABOUT APPROACH STA. 186+00 TO STA. 187+00

FAY-435-1.52

MODEL: CLP_BLUEGRASS - 186+00.00-1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:39:18 PM USER: dan-f
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DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
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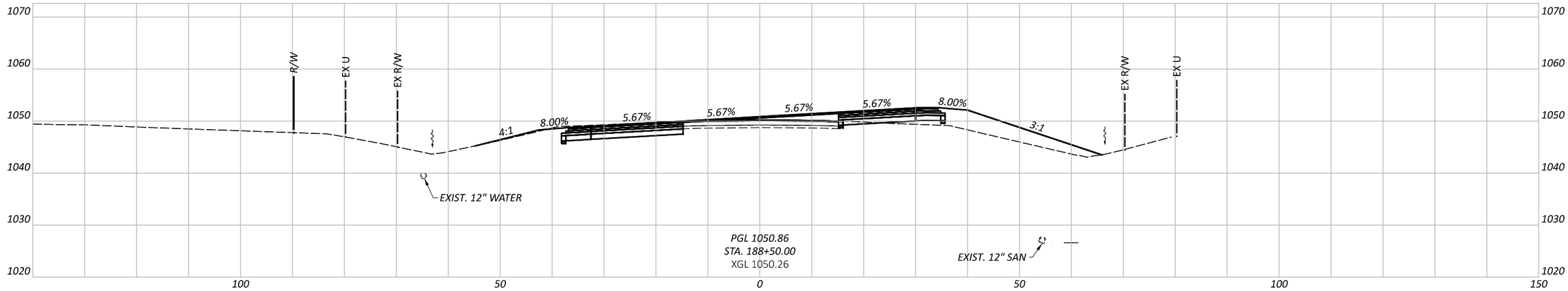
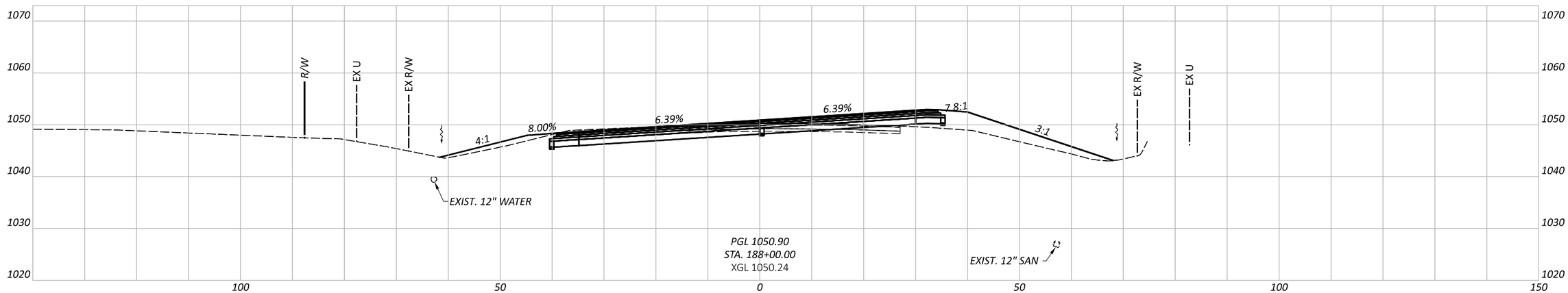
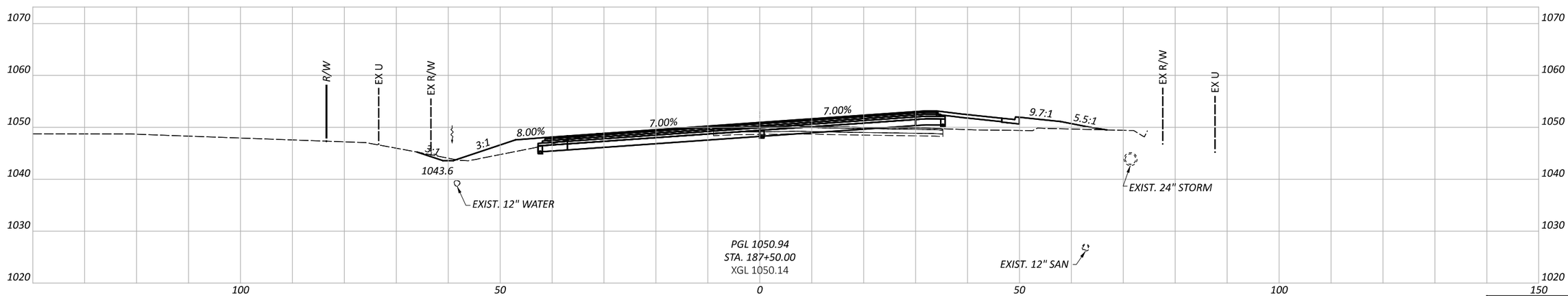
513-469-1600

DESIGNER	
DPF	
REVIEWER	
DCJ	05/10/24
PROJECT ID	
117955	
SHEET	TOTAL
P. 180	246

Sheet Totals		
Seeding	Cut	Fill







CROSS SECTIONS - BLUEGRASS - NORTH ROUNDABOUT APPROACH
STA. 187+50 TO STA. 188+50

FAY-435-1.52

MODEL: CLP_BLUEGRASS - 187+50.00-1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:39:22 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\Roadway\Sheets\BU-51117955_XS020.dgn

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
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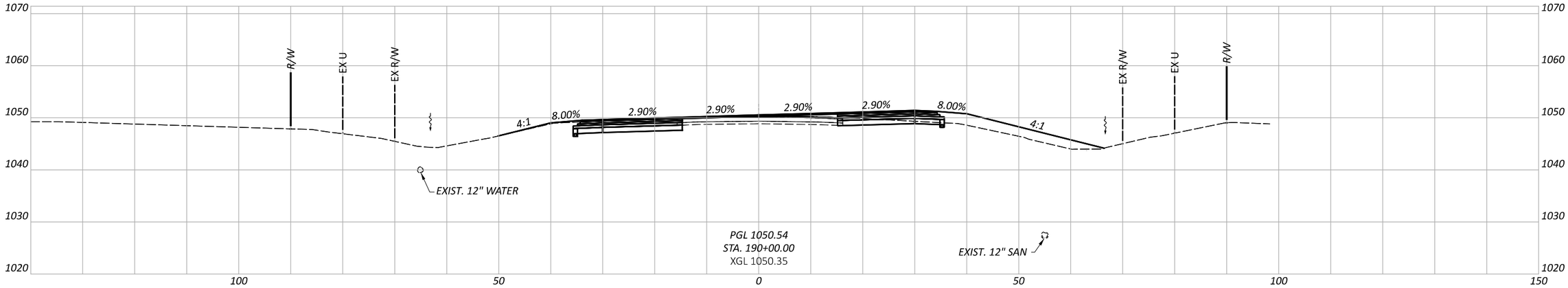
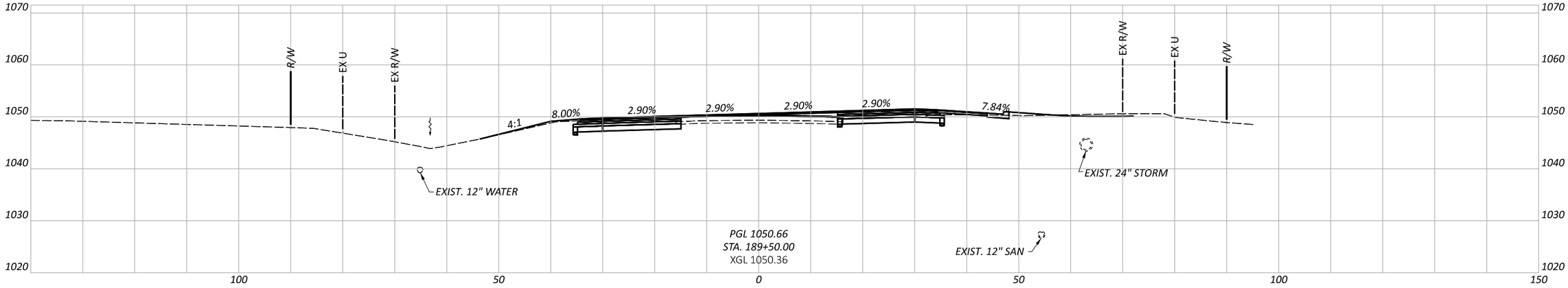
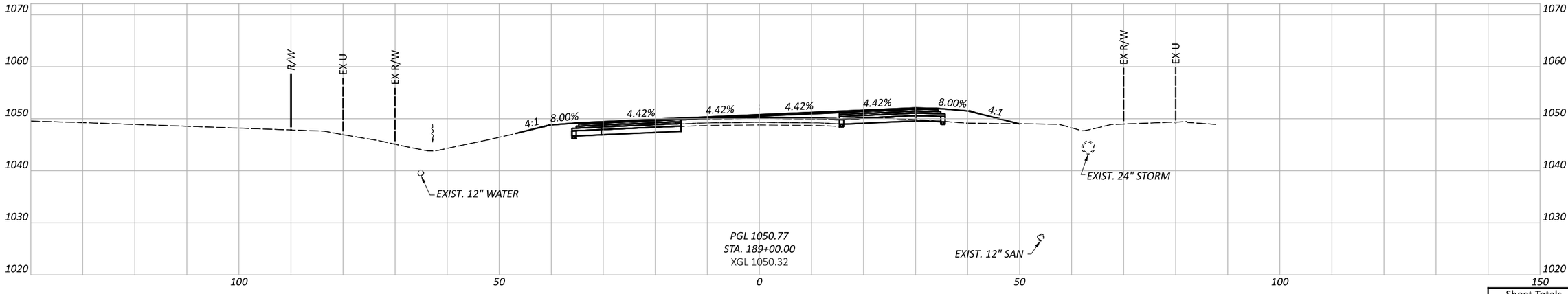
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 181 TOTAL: 246







CROSS SECTIONS - BLUEGRASS - NORTH ROUNDABOUT APPROACH STA. 189+00 TO STA. 190+00

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER: DPF

REVIEWER: DCJ 05/10/24

PROJECT ID: 117955

SHEET: P. 182 | TOTAL: 246

FAY-435-1.52

MODEL: CLP_BLUEGRASS - 189+00.00-1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:39:26 PM USER: dan-f
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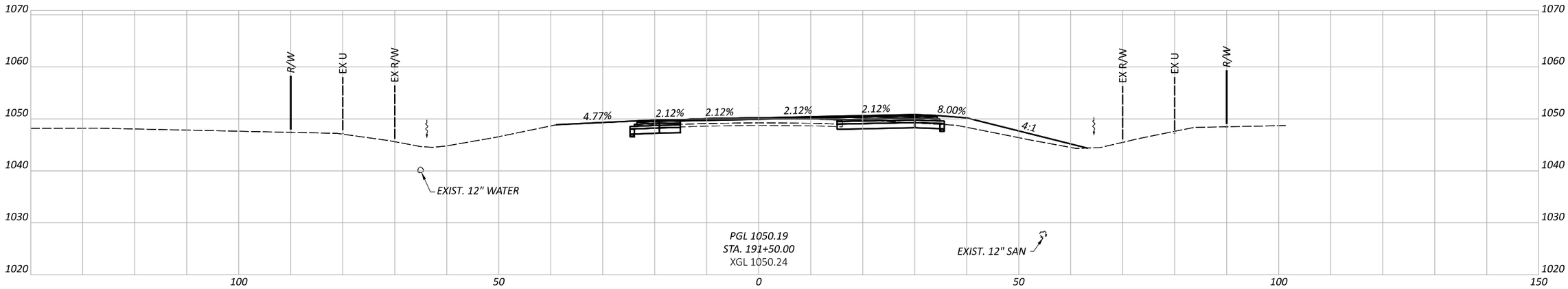

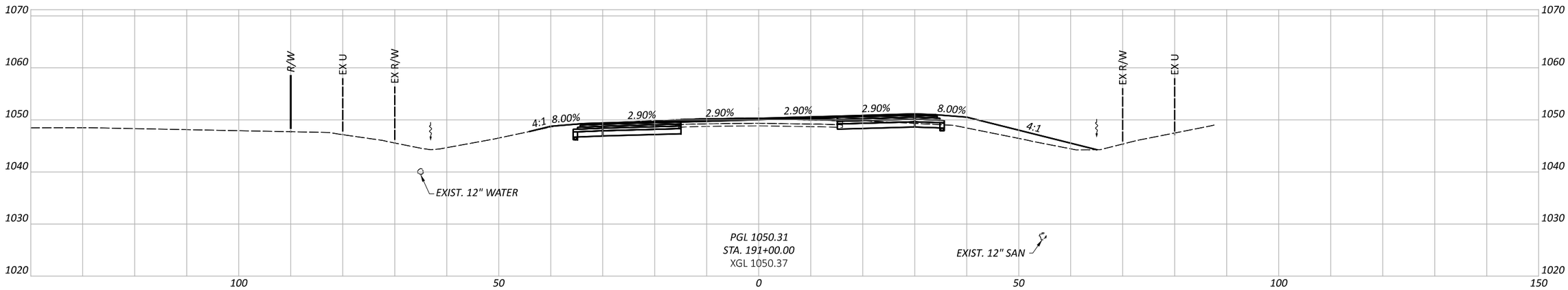

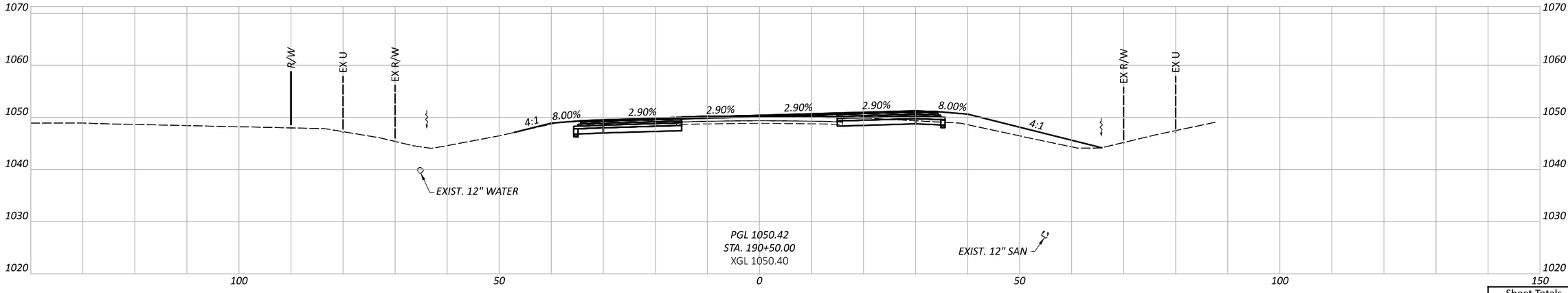

CROSS SECTIONS - BLUEGRASS - NORTH ROUNDABOUT APPROACH STA. 190+50 TO STA. 191+50

FAY-435-1.52

MODEL: CLP_BLUEGRASS - 190+50.00-1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:39:29 PM USER: dan-f
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Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY

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SUITE B
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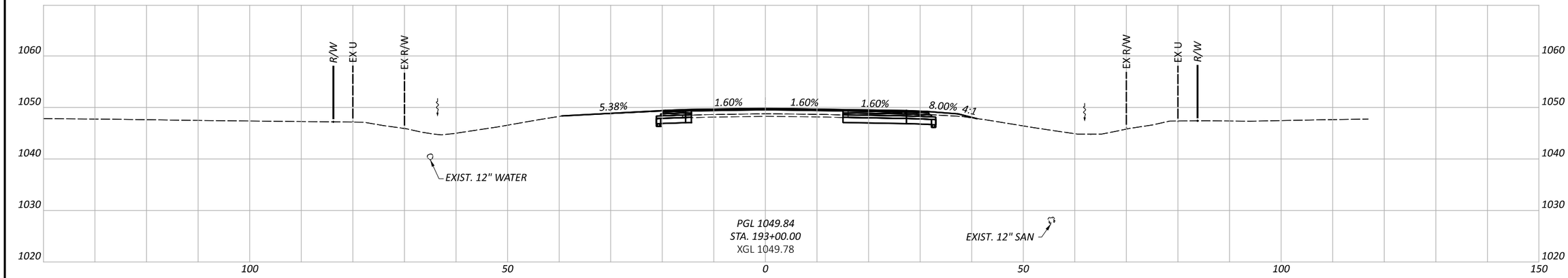
513-469-1600

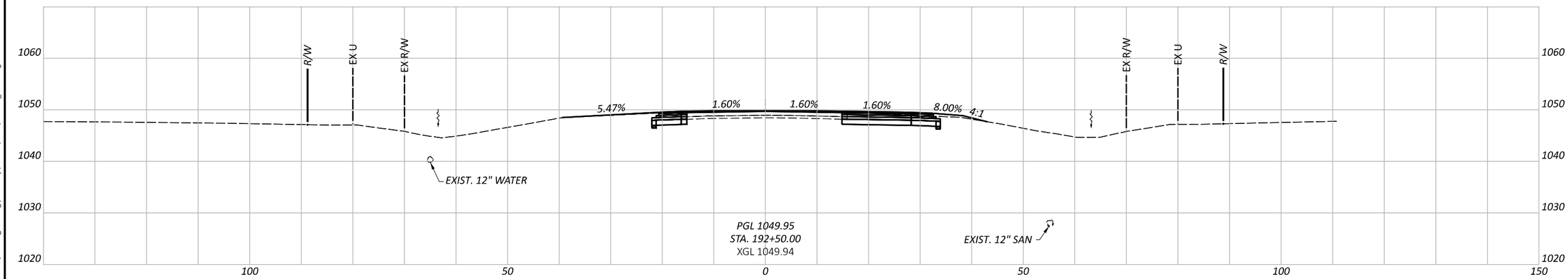
DESIGNER: DPF

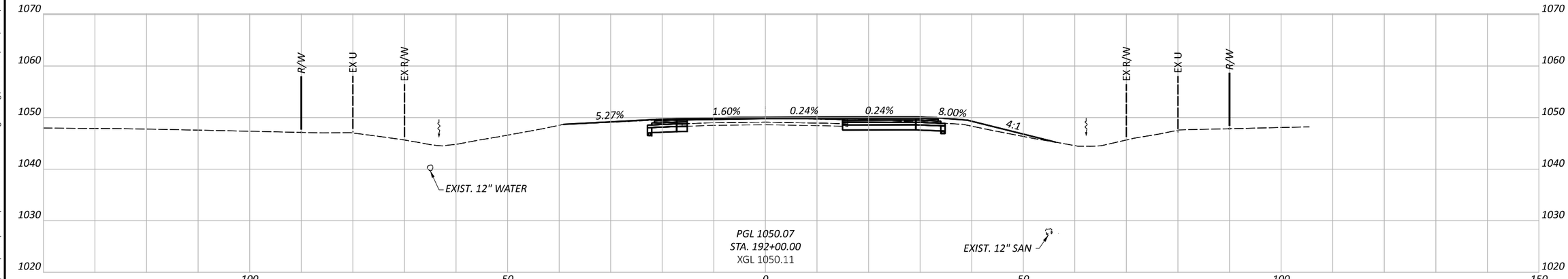
REVIEWER: DCJ 05/10/24

PROJECT ID: 117955

SHEET: P. 183 TOTAL: 246







CROSS SECTIONS - BLUEGRASS - NORTH ROUNDABOUT APPROACH STA. 192+00 TO STA. 193+00

FAY-435-1.52

MODEL: CLP_BLUEGRASS - 192+00.00-1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:39:32 PM USER: dan-f
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Sheet Totals		
Seeding	Cut	Fill

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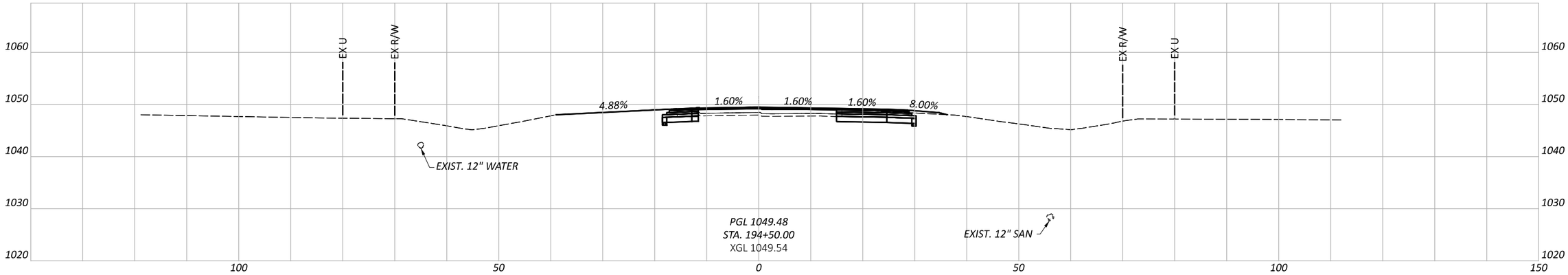
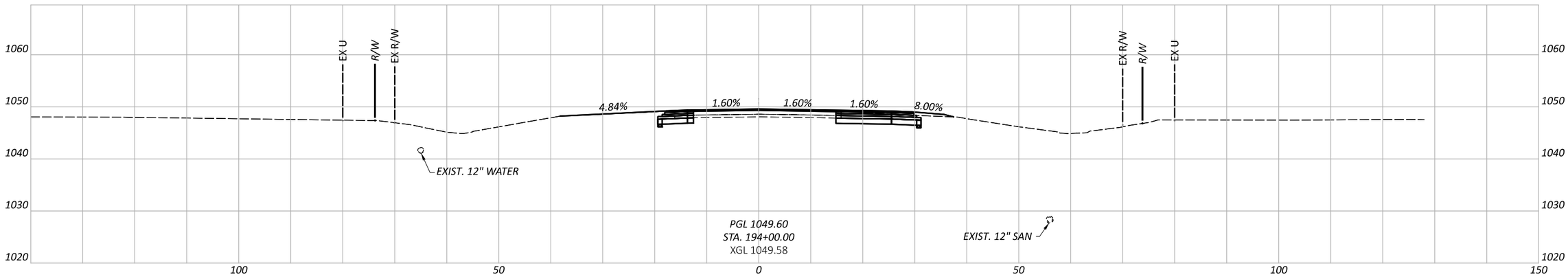
DESIGNER
DPF

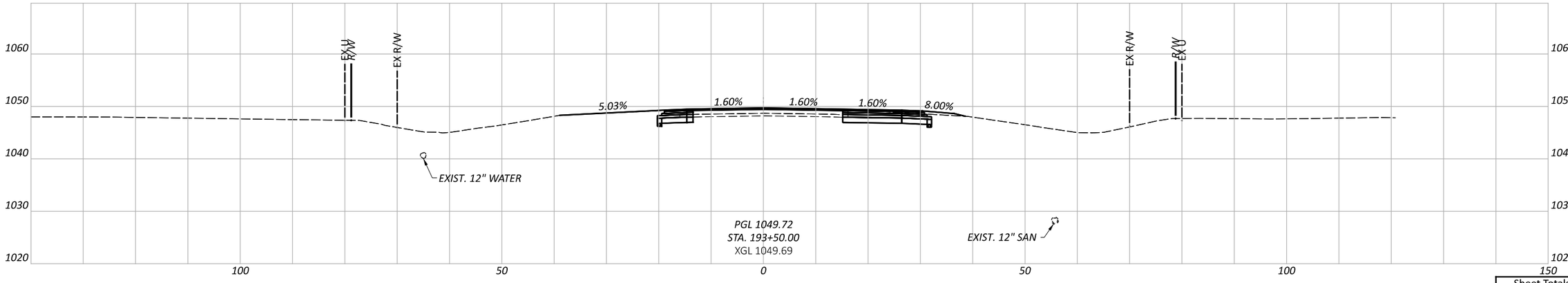
REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 184 TOTAL 246







CROSS SECTIONS - BLUEGRASS - NORTH ROUNDABOUT APPROACH STA. 193+50 TO STA. 194+50

Sheet Totals		
Seeding	Cut	Fill

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REVIEWER: DCJ 05/10/24

PROJECT ID: 117955

SHEET: P. 185 TOTAL: 246

FAY-435-1.52

MODEL: CLP_BLUEGRASS - 193+50.00-1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:39:35 PM USER: dan-f
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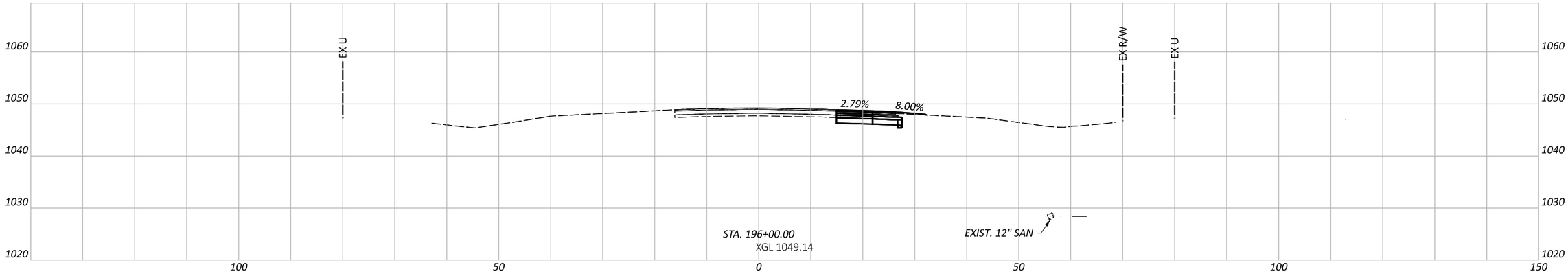

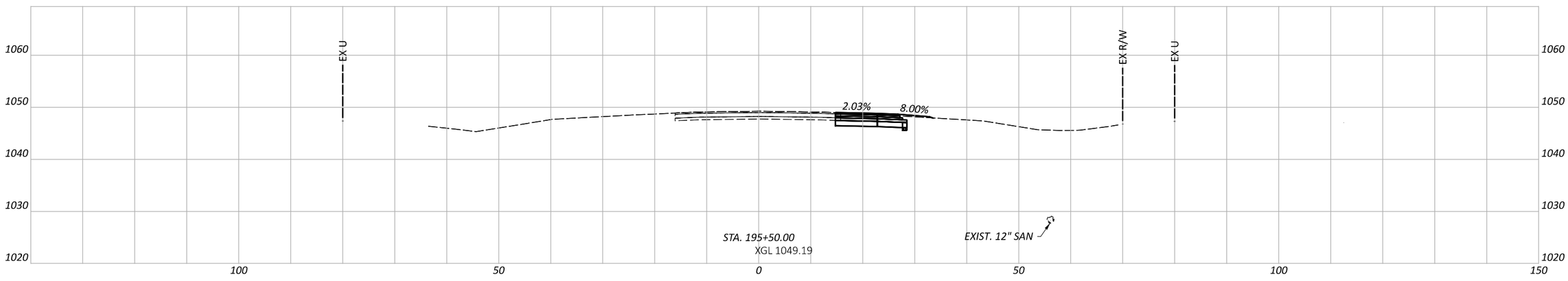

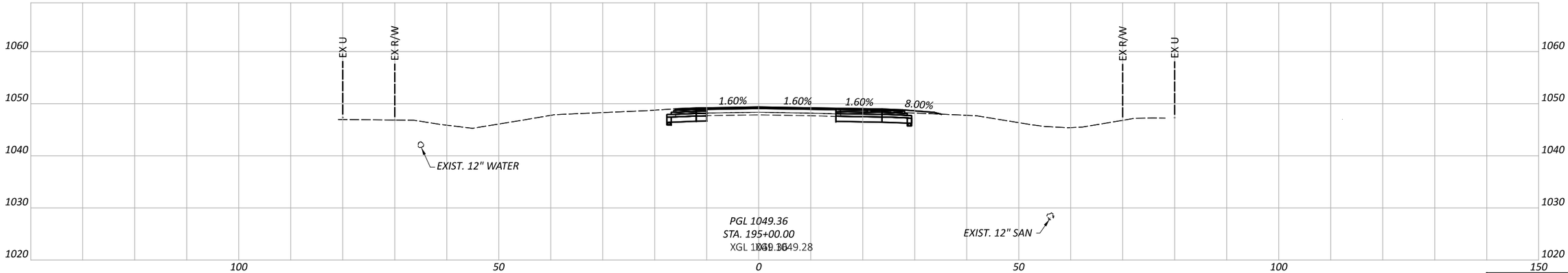

CROSS SECTIONS - BLUEGRASS - NORTH ROUNDABOUT APPROACH STA. 195+00 TO STA. 196+00

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PROJECT ID: 117955

Sheet Totals		
Seeding	Cut	Fill

SHEET: P. 186 TOTAL: 246

FAY-435-1.52

MODEL: CLP_BLUEGRASS - 195+00.00-1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:39:38 PM USER: dan-f
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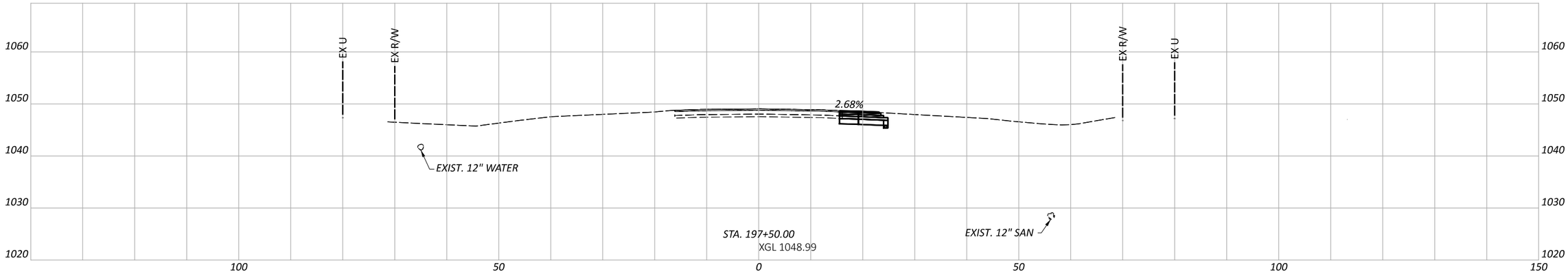

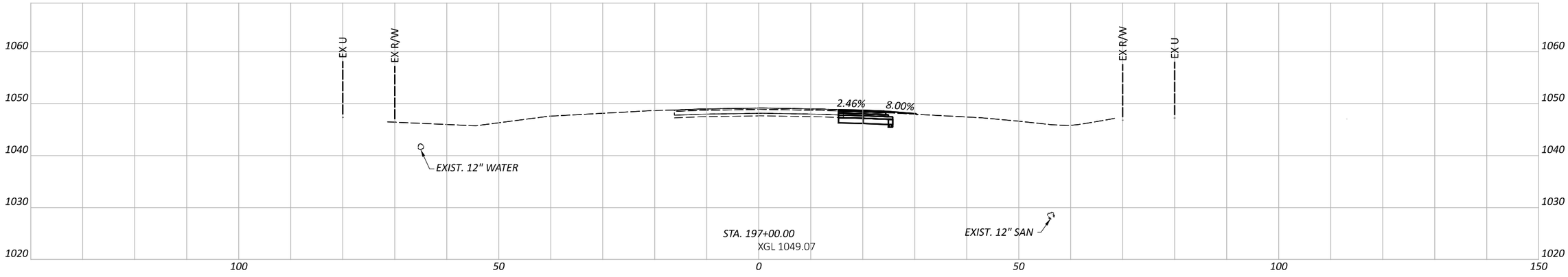

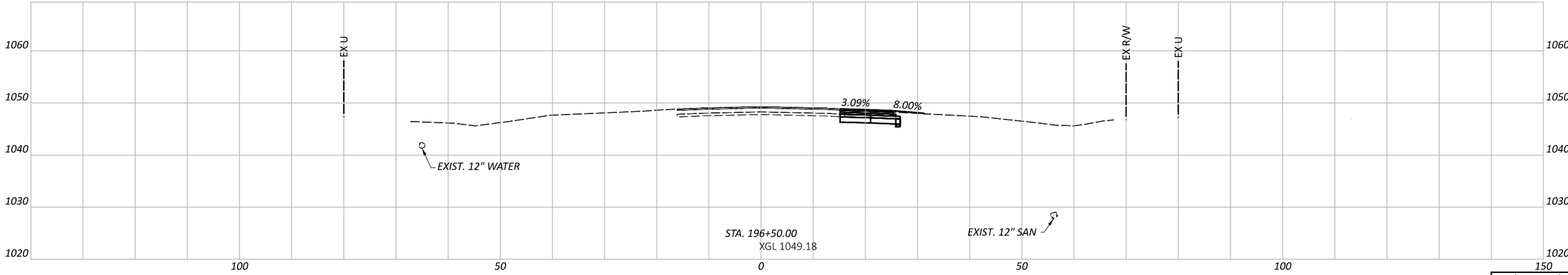

CROSS SECTIONS - BLUEGRASS - NORTH ROUNDABOUT APPROACH
STA. 196+50 TO STA. 197+50

Sheet Totals		
Seeding	Cut	Fill

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DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 187
TOTAL: 246

FAY-435-1.52

MODEL: CLP_BLUEGRASS - 196+50.00-1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:39:41 PM USER: dan-f
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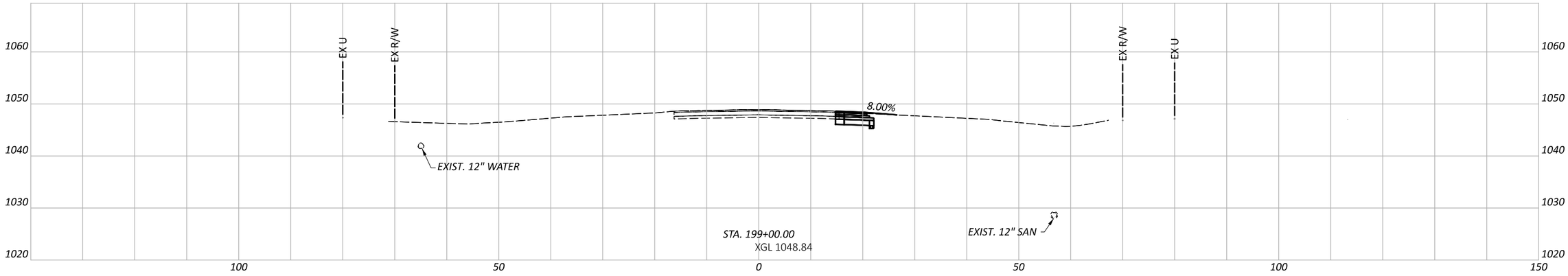

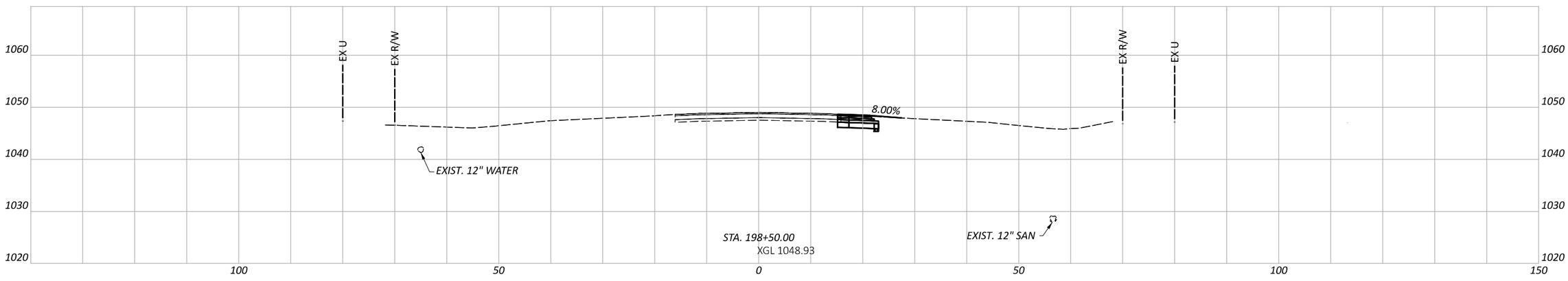

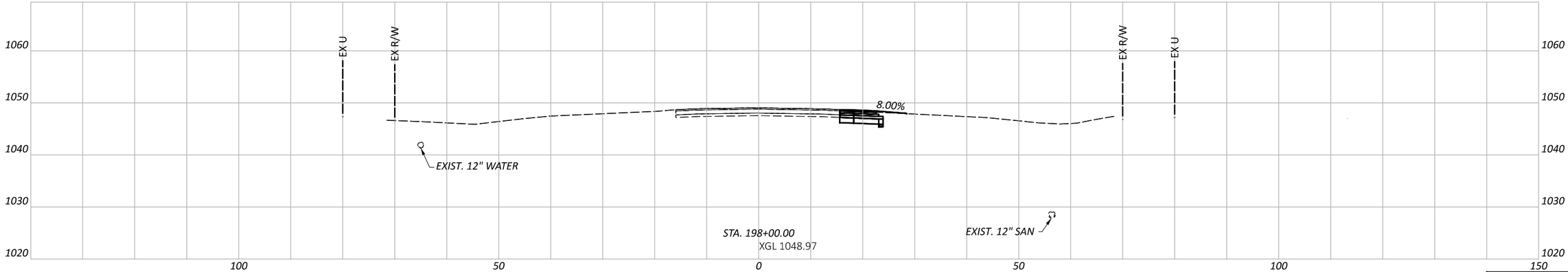

FAY-435-1.52

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CROSS SECTIONS - BLUEGRASS - NORTH ROUNDABOUT APPROACH
STA. 198+00 TO STA. 199+00

Sheet Totals		
Seeding	Cut	Fill

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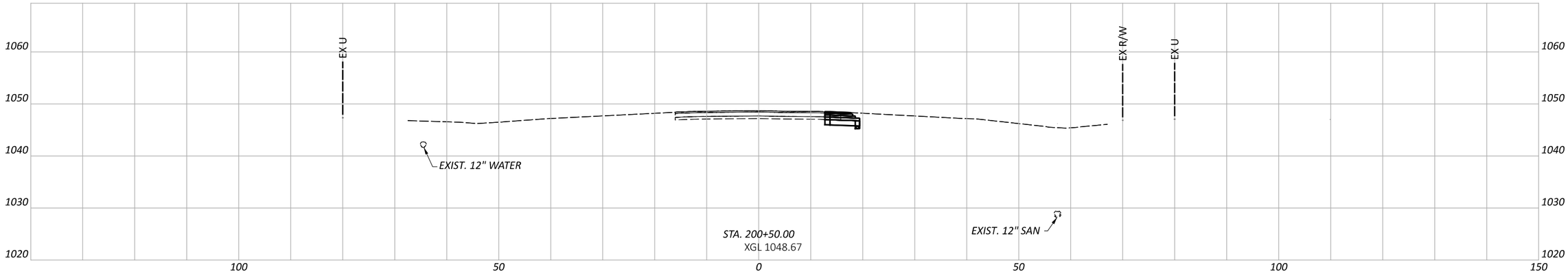
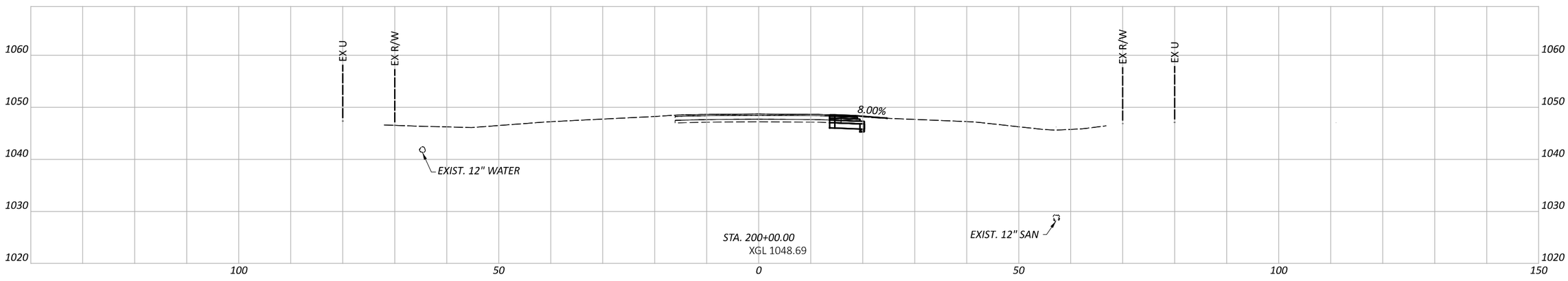
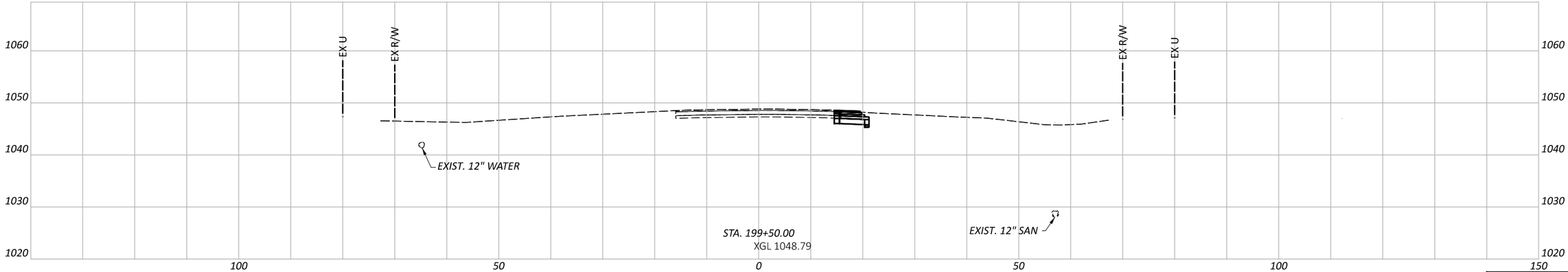
PROJECT ID 117955

SHEET P. 188 TOTAL 246







CROSS SECTIONS - BLUEGRASS - NORTH ROUNDABOUT APPROACH STA. 199+50 TO STA. 200+50

Sheet Totals		
Seeding	Cut	Fill

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SUITE B
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513-469-1600

DESIGNER: DPF

REVIEWER: DCJ 05/10/24

PROJECT ID: 117955

SHEET: P. 189 TOTAL: 246

FAY-435-1.52

MODEL: CLP_BLUEGRASS - 199+50.00-1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:39:46 PM USER: dan-f
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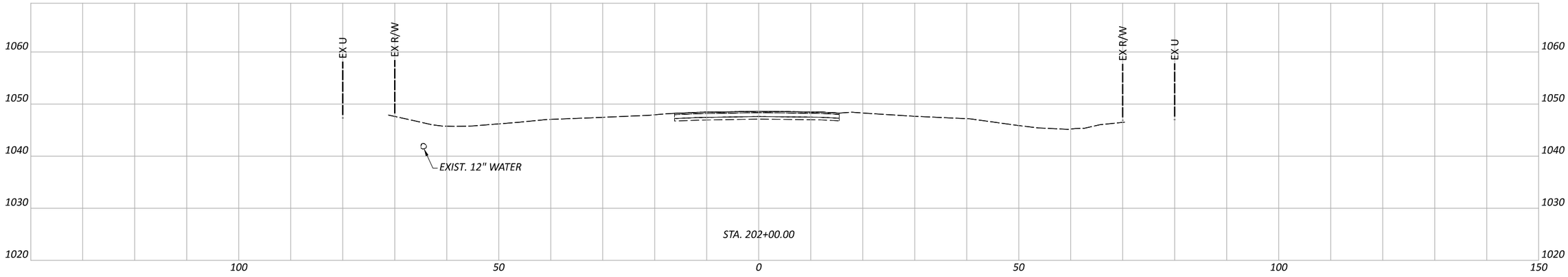

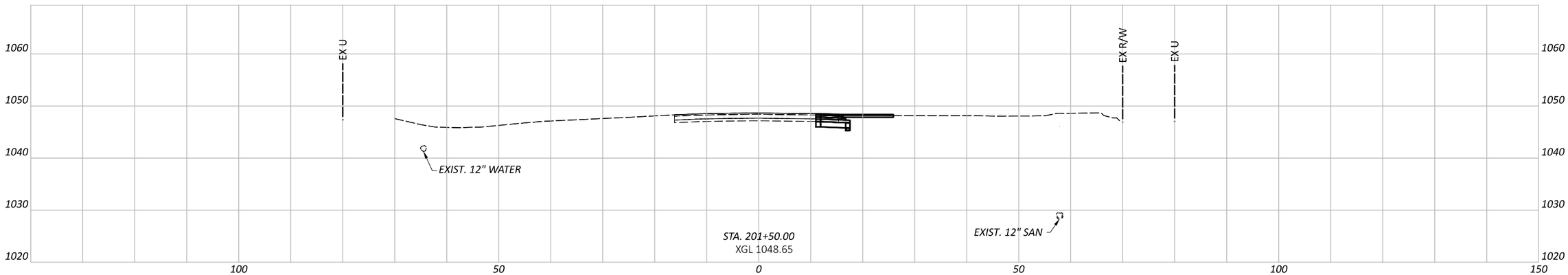

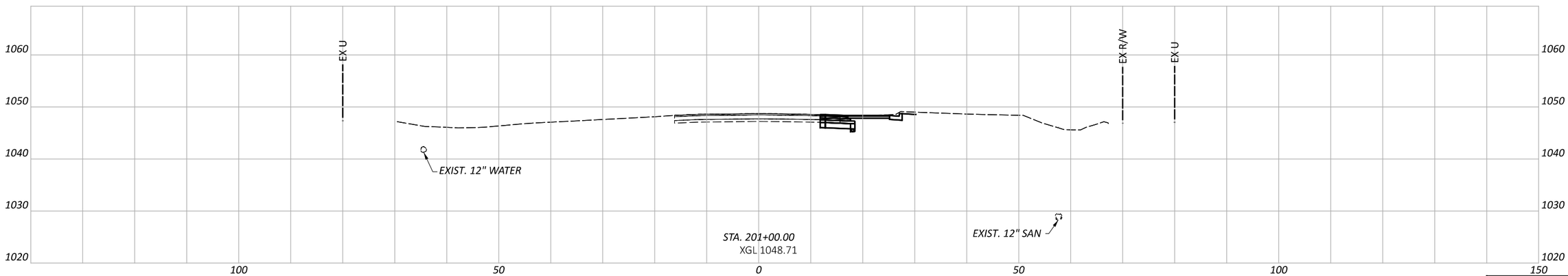

CROSS SECTIONS - BLUEGRASS - NORTH ROUNDABOUT APPROACH
STA. 201+00 TO STA. 202+00

Sheet Totals		
Seeding	Cut	Fill

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DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 190 TOTAL: 246

FAY-435-1.52

MODEL: CLP_BLUEGRASS - 201+00.00-1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:39:49 PM USER: dan-f
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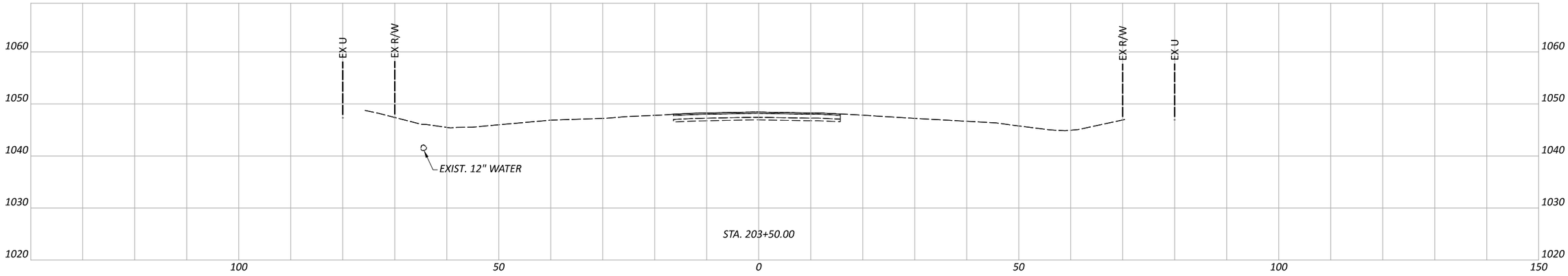

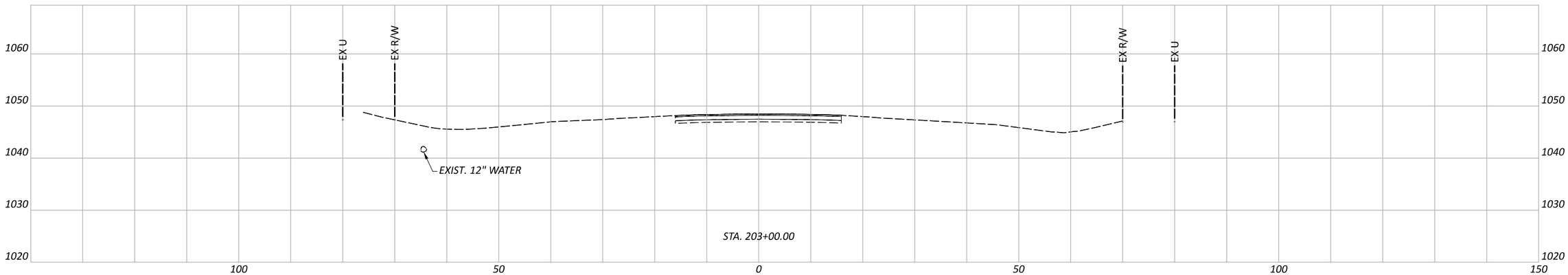

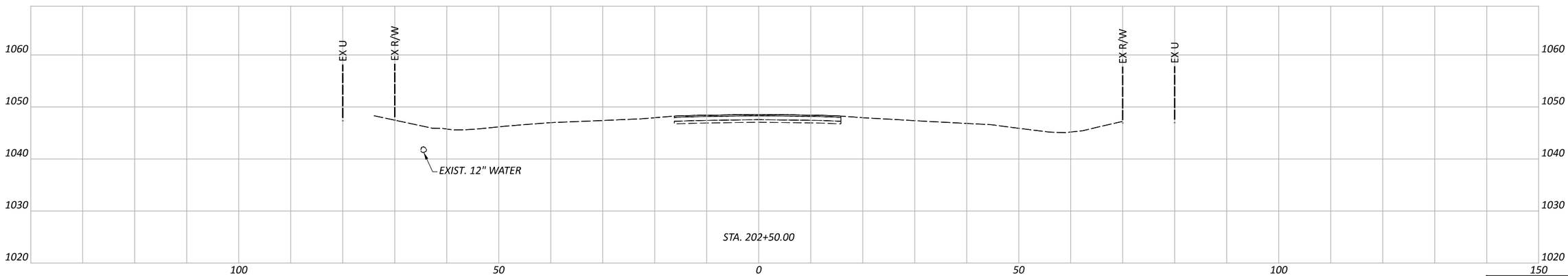

CROSS SECTIONS - BLUEGRASS - NORTH ROUNDABOUT APPROACH
STA. 202+50 TO STA. 203+50

Sheet Totals		
Seeding	Cut	Fill

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DESIGNER: DPF
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PROJECT ID: 117955
SHEET: P. 191 TOTAL: 246

FAY-435-1.52

MODEL: CLP_BLUEGRASS - 202+50.00-1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:39:52 PM USER: dan-f
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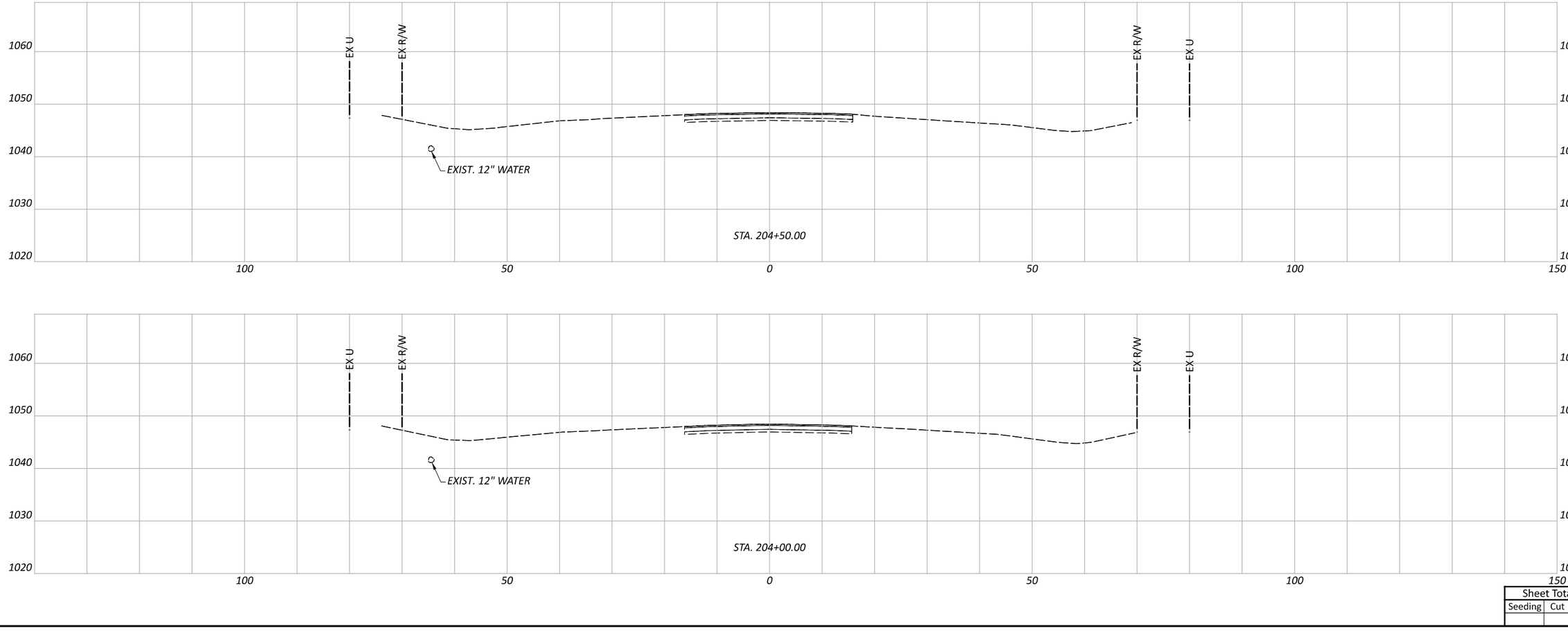

CROSS SECTIONS - BLUEGRASS - NORTH ROUNDABOUT APPROACH
STA. 204+00 TO STA. 204+50

FAY-435-1.52

MODEL: CLP_BLUEGRASS - 204+00.00-1 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:39:54 PM USER: dan-f
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Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
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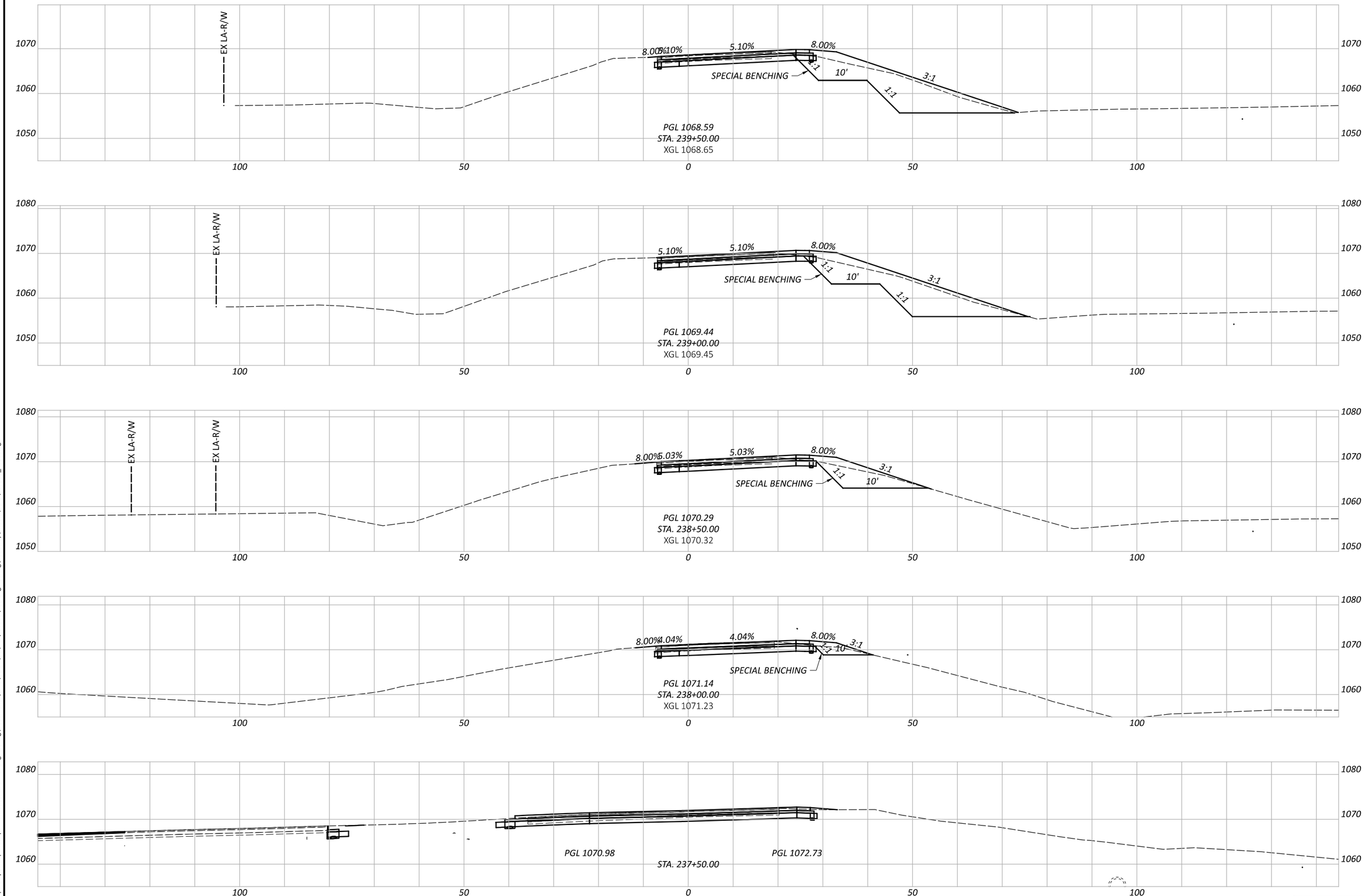
513-469-1600

DESIGNER: DPF

REVIEWER: DCJ 05/10/24

PROJECT ID: 117955

SHEET: P. 192 TOTAL: 246



CROSS SECTIONS - US 35 RAMP D
STA. 237+50 TO STA. 239+50

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
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8350 E. KEMPER RD.
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DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 193 | TOTAL: 246

FAY-435-1.52

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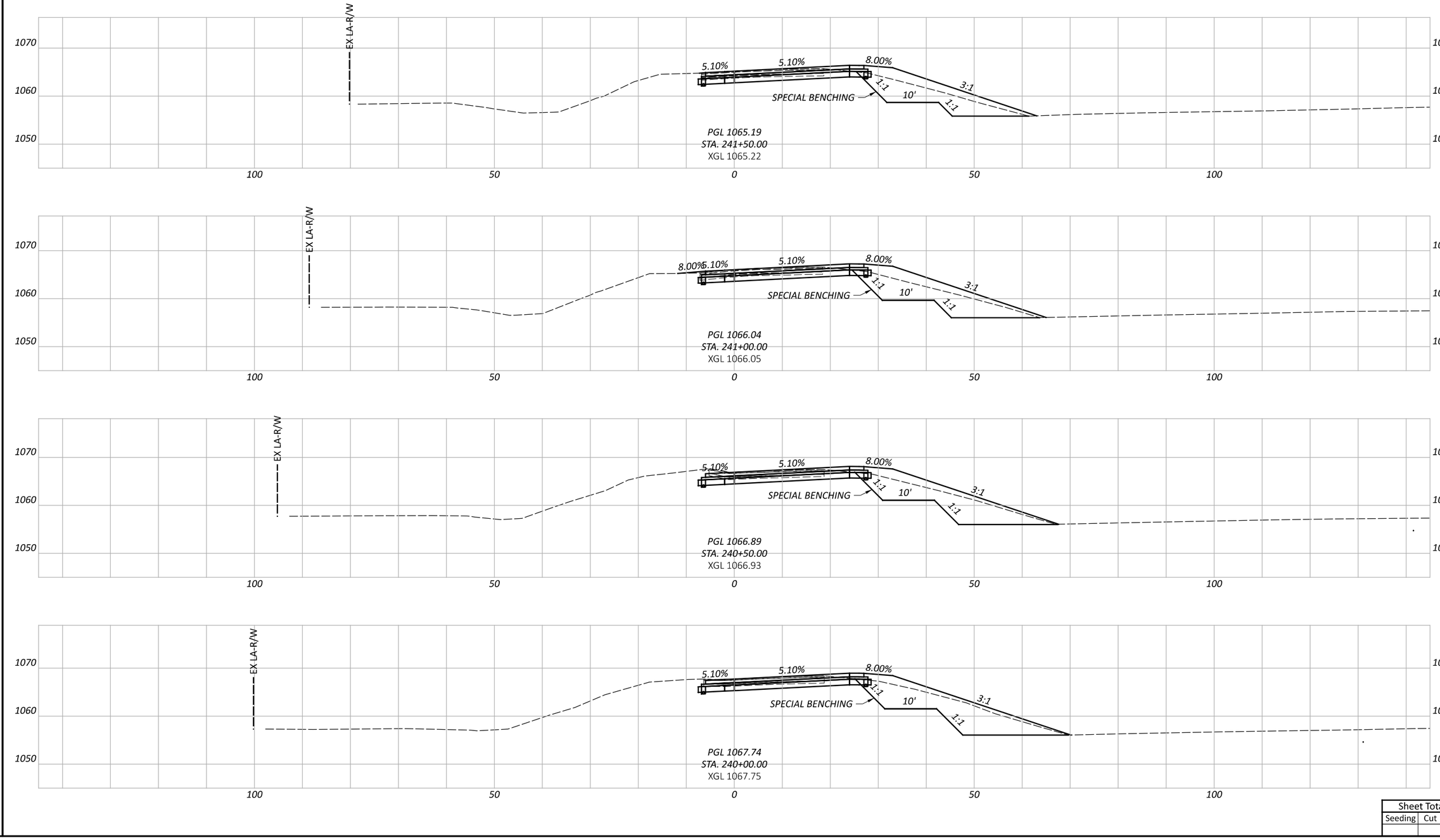

CROSS SECTIONS - US 35 RAMP D
STA. 240+00 TO STA. 241+50

FAY-435-1.52

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Sheet Totals		
Seeding	Cut	Fill

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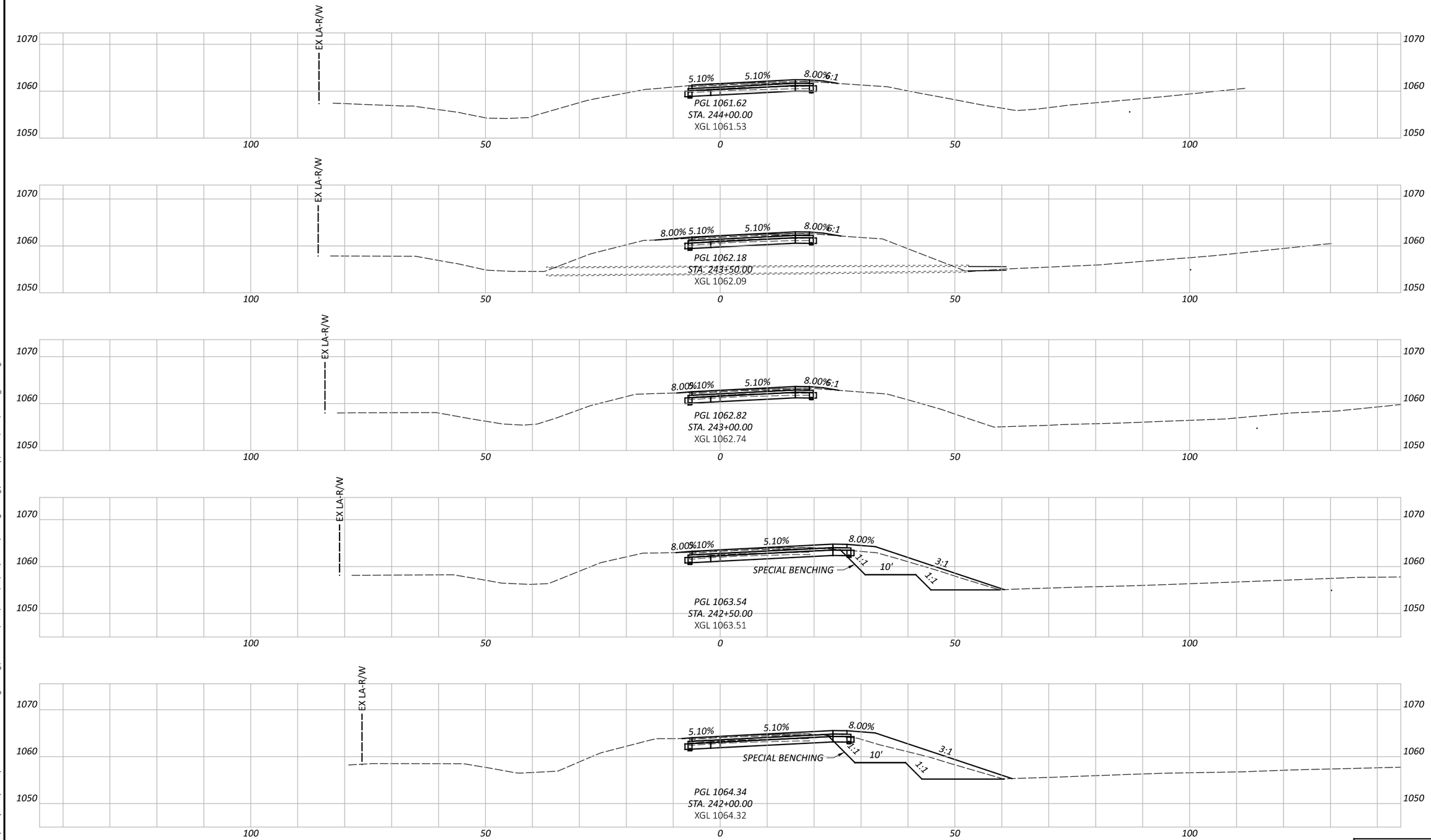
DESIGNER
DPF

REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 194 | TOTAL 246



CROSS SECTIONS - US 35 RAMP D
STA. 242+00 TO STA. 244+00

FAY-435-1.52

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Sheet Totals		
Seeding	Cut	Fill

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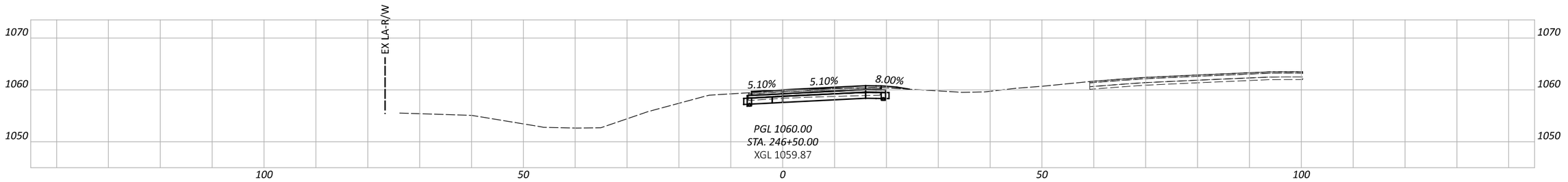
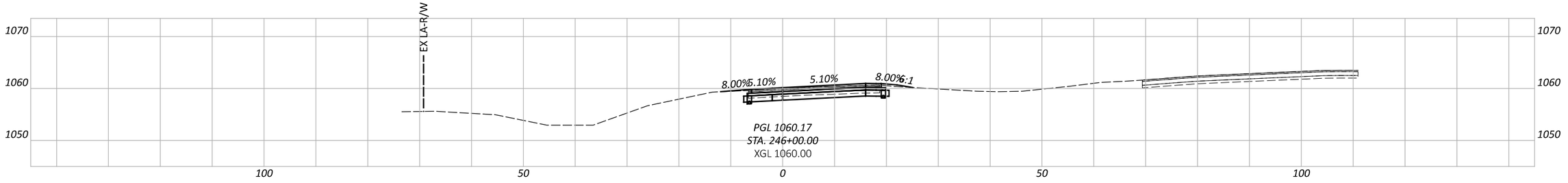
DESIGNER DPF

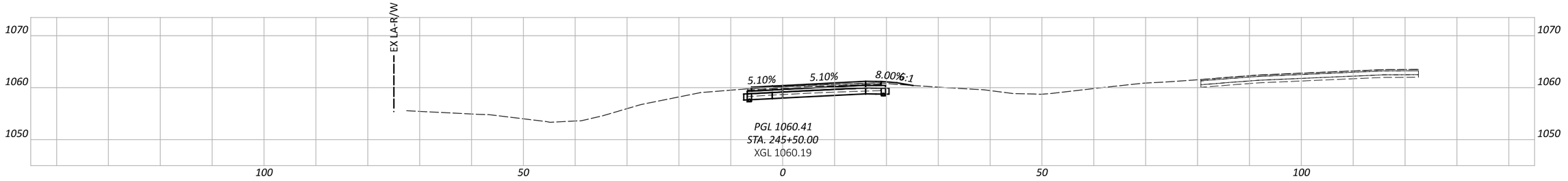
REVIEWER DCJ 05/10/24

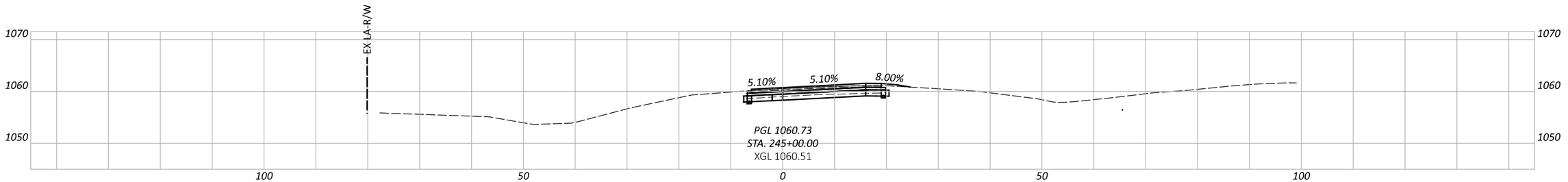
PROJECT ID 117955

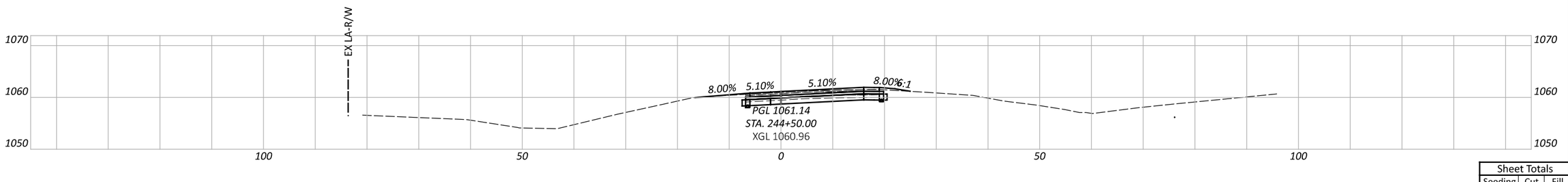
SHEET P. 195 | TOTAL 246











CROSS SECTIONS - US 35 RAMP D
STA. 244+50 TO STA. 246+50

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
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513-469-1600

DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 196 TOTAL: 246

FAY-435-1.52

MODEL: BLP_US35_RAMPD - 244+50.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:40:29 PM USER: dan-f
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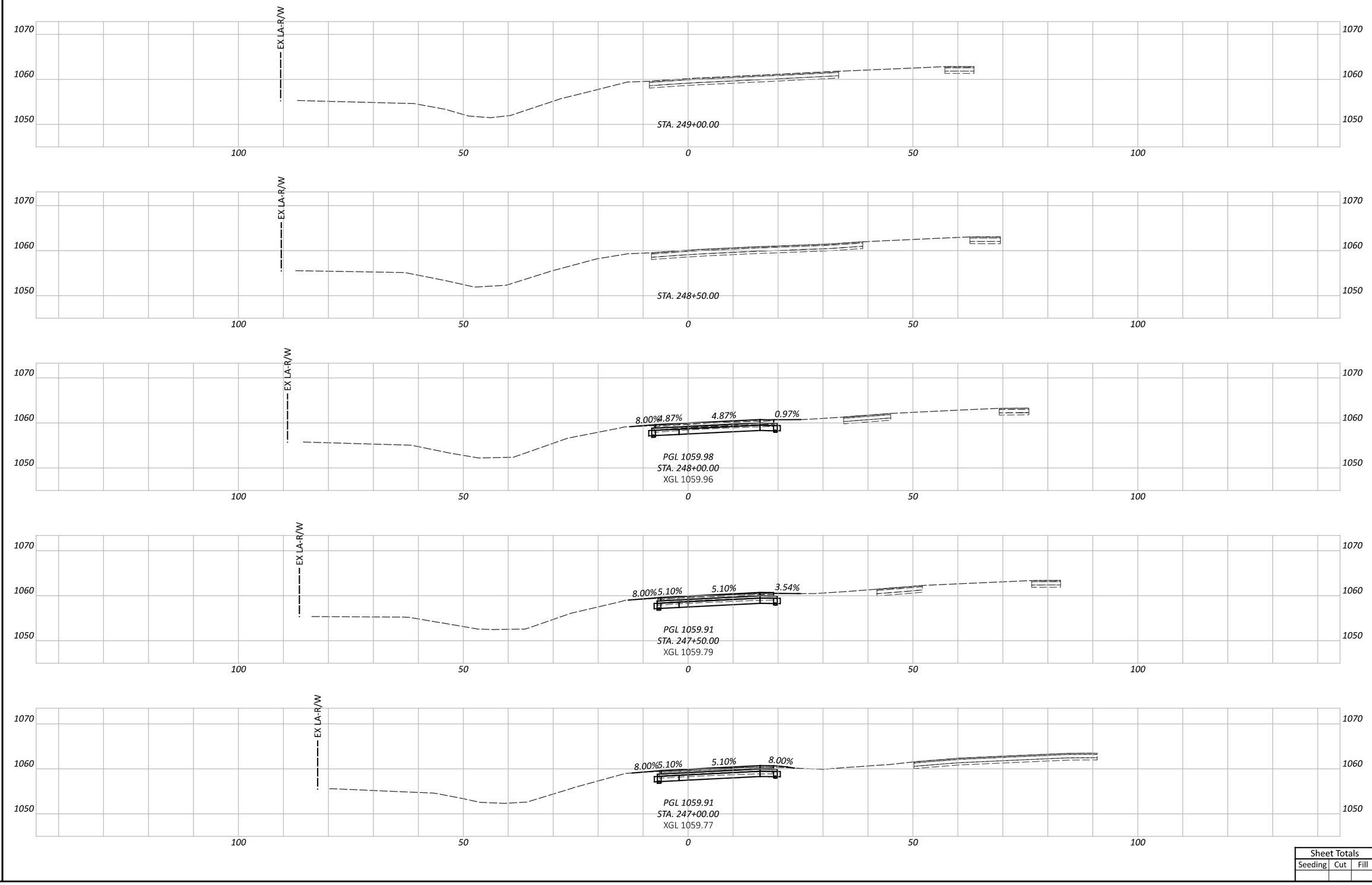


CROSS SECTIONS - US 35 RAMP D
STA. 247+00 TO STA. 249+00

FAY-435-1.52

MODEL: BLP_US35_RAMPD - 247+00.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:40:37 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\Roadway\Sheets\BU-5\117955_XS100.dgn

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER
DPF

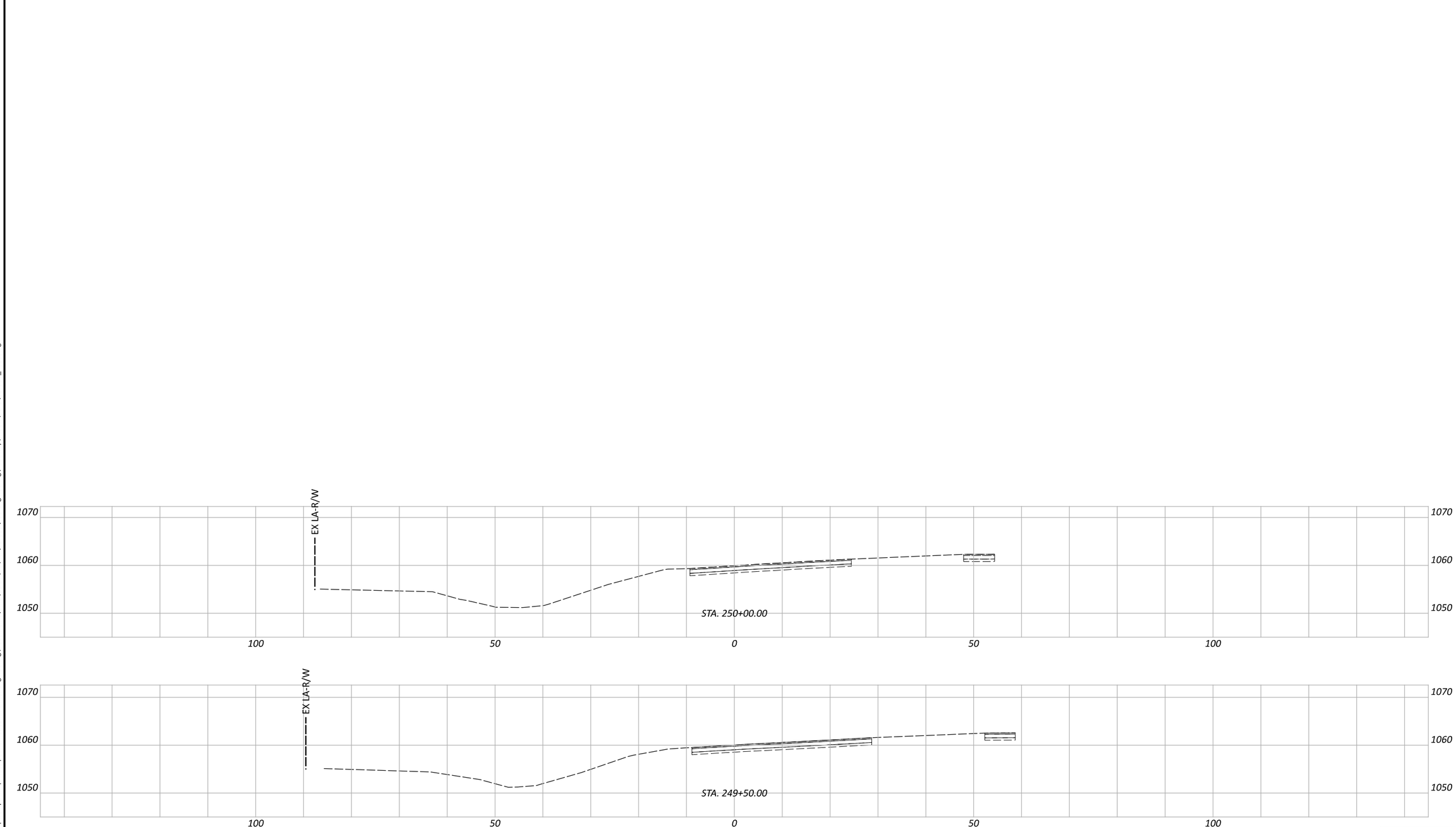
REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 197 TOTAL 246

FAY-435-1.52

MODEL: BLP_US35_RAMPD - 249+50.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:40:44 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\Roadway\Sheets\BU-5\117955_XS100.dgn



CROSS SECTIONS - US 35 RAMP D
STA. 249+50 TO STA. 250+00

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER
DPF

REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 198 TOTAL 246

SUPERELEVATION TABLE - RAMP D

P.I. STATION | Dc = 4^ 00' 00"

CL CONTROL		RIGHT					
STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	ELEVATION	REMARKS
							SEE PAV'T DETAIL
237+57.52	*1071.86*	*24.00*	*0.0320*	*0.77*		*1072.63*	
237+75.00	*1071.56*	*24.00*	*0.0356*	*0.85*	*487:1*	*1072.42*	
238+00.00	*1071.14*	*24.00*	*0.0407*	*0.98*	*487:1*	*1072.12*	
238+25.00	*1070.71*	*24.00*	*0.0459*	*1.10*	*487:1*	*1071.81*	
238+50.00	*1070.29*	*24.00*	*0.0510*	*1.22*	*487:1*	*1071.51*	
238+53.77	*1070.23*	*24.00*	*0.0510*	*1.22*		*1071.45*	
238+75.00	*1069.86*	*24.00*	*0.0510*	*1.22*		*1071.09*	
239+00.00	*1069.44*	*24.00*	*0.0510*	*1.22*		*1070.66*	
239+25.00	*1069.01*	*24.00*	*0.0510*	*1.22*		*1070.24*	
239+50.00	*1068.59*	*24.00*	*0.0510*	*1.22*		*1069.81*	
239+75.00	*1068.16*	*24.00*	*0.0510*	*1.22*		*1069.39*	
240+00.00	*1067.74*	*24.00*	*0.0510*	*1.22*		*1068.96*	
240+25.00	*1067.31*	*24.00*	*0.0510*	*1.22*		*1068.54*	
240+50.00	*1066.89*	*24.00*	*0.0510*	*1.22*		*1068.11*	
240+75.00	*1066.46*	*24.00*	*0.0510*	*1.22*		*1067.69*	
241+00.00	*1066.04*	*24.00*	*0.0510*	*1.22*		*1067.26*	
241+25.00	*1065.61*	*24.00*	*0.0510*	*1.22*		*1066.84*	
241+50.00	*1065.19*	*24.00*	*0.0510*	*1.22*		*1066.41*	
241+75.00	*1064.76*	*24.00*	*0.0510*	*1.22*		*1065.99*	
242+00.00	*1064.34*	*24.00*	*0.0510*	*1.22*		*1065.56*	
242+25.00	*1063.93*	*24.00*	*0.0510*	*1.22*		*1065.16*	
242+50.00	*1063.54*	*24.00*	*0.0510*	*1.22*		*1064.77*	
242+75.00	*1063.17*	*20.00*	*0.0510*	*1.02*		*1064.19*	
243+00.00	*1062.82*	*16.00*	*0.0510*	*0.82*		*1063.64*	
243+25.00	*1062.49*	*16.00*	*0.0510*	*0.82*		*1063.31*	
243+50.00	*1062.18*	*16.00*	*0.0510*	*0.82*		*1063.00*	
243+75.00	*1061.89*	*16.00*	*0.0510*	*0.82*		*1062.71*	
244+00.00	*1061.62*	*16.00*	*0.0510*	*0.82*		*1062.44*	
244+25.00	*1061.37*	*16.00*	*0.0510*	*0.82*		*1062.19*	
244+50.00	*1061.14*	*16.00*	*0.0510*	*0.82*		*1061.95*	
244+75.00	*1060.93*	*16.00*	*0.0510*	*0.82*		*1061.74*	
245+00.00	*1060.73*	*16.00*	*0.0510*	*0.82*		*1061.55*	
245+25.00	*1060.56*	*16.00*	*0.0510*	*0.82*		*1061.38*	
245+50.00	*1060.41*	*16.00*	*0.0510*	*0.82*		*1061.23*	
245+75.00	*1060.28*	*16.00*	*0.0510*	*0.82*		*1061.09*	
246+00.00	*1060.17*	*16.00*	*0.0510*	*0.82*		*1060.98*	
246+25.00	*1060.07*	*16.00*	*0.0510*	*0.82*		*1060.89*	
246+50.00	*1060.00*	*16.00*	*0.0510*	*0.82*		*1060.82*	
246+75.00	*1059.95*	*16.00*	*0.0510*	*0.82*		*1060.76*	
247+00.00	*1059.91*	*16.00*	*0.0510*	*0.82*		*1060.73*	
247+25.00	*1059.90*	*16.00*	*0.0510*	*0.82*		*1060.72*	
247+50.00	*1059.91*	*16.00*	*0.0510*	*0.82*		*1060.72*	
247+62.55	*1059.92*	*16.00*	*0.0510*	*0.82*		*1060.74*	
247+75.00	*1059.93*	*16.00*	*0.0502*	*0.80*	*3273:1*	*1060.74*	
248+00.00	*1059.98*	*16.00*	*0.0487*	*0.78*	*1630:1*	*1060.76*	
248+25.00	*1060.03*	*16.00*	*0.0472*	*0.75*	*1630:1*	*1060.78*	
248+31.00	*1060.40*	*16.00*	*0.0468*	*0.75*	*1630:1*	*1061.15*	*MEET EXIST.*

FAY-435-1.52

MODEL: Sheet_SurvFt PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:40:55 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\Roadway\Sheets\BU-5\117955_GE100.dgn

SUPERELEVATION TABLE
US 35 -RAMP D

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 199 TOTAL 246

SUPERELEVATION TABLE - SR 435 (WEST)

P.I. STATION 103+86.66 | Dc = 7^ 45' 00"

LEFT					CL CONTROL		RIGHT					
ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	ELEVATION	REMARKS
1056.23		-0.38	-0.0160	24.00	96+90.39	1056.62	24.00	-0.0160	-0.38		1056.23	NORMAL CROWN
1056.15		-0.38	-0.0160	24.00	97+00.00	1056.53	24.00	-0.0142	-0.34	533:1	1056.19	
1055.92		-0.38	-0.0160	24.00	97+25.00	1056.31	24.00	-0.0095	-0.23	533:1	1056.08	
1055.70		-0.38	-0.0160	24.00	97+50.00	1056.09	24.00	-0.0048	-0.12	533:1	1055.97	
1055.48		-0.38	-0.0160	24.00	97+75.00	1055.86	24.00	-0.0001	0.00	533:1	1055.86	
1055.47		-0.38	-0.0160	24.00	97+75.72	1055.86	24.00	0.0000	0.00	533:1	1055.86	½ FLAT
1055.26		-0.38	-0.0160	24.00	98+00.00	1055.64	24.00	0.0046	0.11	533:1	1055.75	
1055.04		-0.38	-0.0160	24.00	98+25.00	1055.42	24.00	0.0092	0.22	533:1	1055.64	
1054.81		-0.38	-0.0160	24.00	98+50.00	1055.20	24.00	0.0139	0.33	533:1	1055.53	
1054.72		-0.38	-0.0160	24.00	98+61.05	1055.10	24.00	0.0160	0.38	533:1	1055.48	R.C.
1054.53	534:1	-0.45	-0.0186	24.00	98+75.00	1054.98	24.00	0.0186	0.45	534:1	1055.42	
1054.19	534:1	-0.56	-0.0233	24.00	99+00.00	1054.75	24.00	0.0233	0.56	534:1	1055.31	
1053.86	534:1	-0.67	-0.0280	24.00	99+25.00	1054.53	24.00	0.0280	0.67	534:1	1055.20	
1053.53	534:1	-0.78	-0.0327	24.00	99+50.00	1054.31	24.00	0.0327	0.78	534:1	1055.09	
1053.19	534:1	-0.90	-0.0374	24.00	99+75.00	1054.09	24.00	0.0374	0.90	534:1	1054.98	
1052.85	534:1	-1.01	-0.0420	24.00	100+00.00	1053.86	24.00	0.0420	1.01	534:1	1054.86	
1052.50	534:1	-1.12	-0.0467	24.00	100+25.00	1053.62	24.00	0.0467	1.12	534:1	1054.74	
1052.15	534:1	-1.23	-0.0514	24.01	100+50.00	1053.38	24.00	0.0514	1.23	534:1	1054.62	
1051.97	534:1	-1.29	-0.0536	24.17	100+61.59	1053.27	24.00	0.0536	1.29	534:1	1054.55	P.C.
1051.77	534:1	-1.37	-0.0561	24.46	100+75.00	1053.14	24.13	0.0561	1.35	534:1	1054.49	
1051.37	534:1	-1.52	-0.0608	25.00	101+00.00	1052.89	25.03	0.0608	1.52	534:1	1054.41	
1050.96	534:1	-1.67	-0.0655	25.54	101+25.00	1052.63	26.63	0.0655	1.74	534:1	1054.38	
1050.54	534:1	-1.83	-0.0701	26.08	101+50.00	1052.37	28.18	0.0701	1.98	534:1	1054.35	
1050.12	534:1	-1.99	-0.0748	26.63	101+75.00	1052.11	29.58	0.0748	2.21	534:1	1054.32	
1049.80	534:1	-2.11	-0.0782	27.02	101+93.02	1051.91	30.50	0.0782	2.39	534:1	1054.30	FULL S.E./ BEGIN
1049.78	304:1	-2.06	-0.0759	27.18	102+00.00	1051.84	30.84	0.0759	2.34	305:1	1054.18	APPROACH TRANS.
1049.69	303:1	-1.88	-0.0677	27.73	102+25.00	1051.57	31.95	0.0676	2.16	301:1	1053.73	
1049.61	304:1	-1.68	-0.0594	28.28	102+50.00	1051.29	32.92	0.0593	1.95	302:1	1053.25	
1049.55	303:1	-1.48	-0.0512	28.83	102+75.00	1051.02	33.74	0.0511	1.72	303:1	1052.74	
1049.52	319:1	-1.40	-0.0482	29.03	102+84.48	1050.92	34.01	0.0474	1.61	256:1	1052.53	BEGIN SPLITTER

SUPERELEVATION TABLE - SR 435 (EAST)

P.I. STATION 111+39.51 | Dc = 3^ 30' 00"

LEFT					CL CONTROL		RIGHT					
ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	ELEVATION	REMARKS
1050.83		-1.63	-0.0740	22.04	112+12.62	1052.47	12.00	0.0740	0.89		1053.35	FULL S.E.
1050.90		-1.56	-0.0740	21.09	112+25.00	1052.47	12.00	0.0740	0.89		1053.35	
1051.14		-1.43	-0.0740	19.33	112+50.00	1052.57	12.00	0.0740	0.89		1053.46	
1051.25		-1.31	-0.0740	17.75	112+75.00	1052.56	12.00	0.0740	0.89		1053.45	
1051.23		-1.21	-0.0740	16.36	113+00.00	1052.44	12.00	0.0740	0.89		1053.33	
1051.17		-1.12	-0.0740	15.17	113+25.00	1052.30	12.00	0.0740	0.89		1053.18	
1051.11		-1.05	-0.0740	14.16	113+50.00	1052.15	12.00	0.0740	0.89		1053.04	
1051.02		-0.99	-0.0740	13.34	113+75.00	1052.01	12.00	0.0740	0.89		1052.90	
1050.93		-0.94	-0.0740	12.72	114+00.00	1051.87	12.00	0.0740	0.89		1052.76	
1050.86		-0.92	-0.0740	12.43	114+15.10	1051.78	12.00	0.0740	0.89		1052.67	BEGIN S.E. TRANSITION
1050.86	267:1	-0.86	-0.0703	12.29	114+25.00	1051.72	12.00	0.0703	0.84	267:1	1052.57	
1050.83	267:1	-0.73	-0.0609	12.04	114+50.00	1051.56	12.00	0.0609	0.73	267:1	1052.29	
1050.73	267:1	-0.62	-0.0515	12.00	114+75.00	1051.35	12.00	0.0515	0.62	267:1	1051.97	
1050.70	267:1	-0.59	-0.0496	12.00	114+80.22	1051.29	12.00	0.0496	0.59	267:1	1051.89	P.T.
1050.57	267:1	-0.51	-0.0422	12.00	115+00.00	1051.07	12.00	0.0422	0.51	267:1	1051.58	
1050.35	267:1	-0.39	-0.0328	12.00	115+25.00	1050.74	12.00	0.0328	0.39	267:1	1051.14	
1050.09	267:1	-0.28	-0.0234	12.00	115+50.00	1050.37	12.00	0.0234	0.28	267:1	1050.65	
1049.91	267:1	-0.19	-0.0160	12.00	115+69.76	1050.10	12.00	0.0160	0.19	267:1	1050.29	R.C.
1049.84		-0.19	-0.0160	12.00	115+75.00	1050.03	12.00	0.0140	0.17	267:1	1050.20	
1049.56		-0.19	-0.0160	12.00	116+00.00	1049.75	12.00	0.0047	0.06	267:1	1049.80	
1049.44		-0.19	-0.0160	12.00	116+12.43	1049.63	12.00	0.0000	0.00	267:1	1049.63	½ FLAT
1049.33		-0.19	-0.0160	12.00	116+25.00	1049.52	12.00	-0.0047	-0.06	267:1	1049.46	
1049.16		-0.19	-0.0160	12.00	116+50.00	1049.35	12.00	-0.0141	-0.17	267:1	1049.18	
1049.13		-0.19	-0.0160	12.00	116+55.09	1049.32	12.00	-0.0160	-0.19	267:1	1049.13	NORMAL CROWN

SUPERELEVATION TABLE
SR 435 ROUNDABOUT APPROACHES

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 200 | TOTAL: 246

FAY-435-1.52

MODEL: Sheet_SR435 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:41:02 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\Roadway\Sheets\BU-5\117955_GE400.dgn

SUPERELEVATION TABLE - BLUEGRASS BLVD.

P.I. STATION 186+20.39/190+14.58 | Dc = 6^ 00' 00"/2^ 06' 02"

LEFT					CL CONTROL		RIGHT					
ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	ELEVATION	REMARKS
1048.24		-2.67	-0.0700	38.08	187+25.56	1050.91	30.00	0.0700	2.10		1053.01	FULL S.E.
1048.35		-2.59	-0.0700	37.03	187+50.00	1050.94	30.00	0.0700	2.10		1053.04	
1048.39		-2.54	-0.0700	36.35	187+65.74	1050.93	30.00	0.0700	2.10		1053.03	BEGIN S.E. TRANS.
1048.46	650:1	-2.46	-0.0686	35.94	187+75.00	1050.93	30.00	0.0686	2.06	650:1	1052.98	
1048.65	650:1	-2.25	-0.0647	34.82	188+00.00	1050.90	30.00	0.0647	1.94		1052.85	
1048.83	650:1	-2.05	-0.0609	33.67	188+25.00	1050.88	30.00	0.0609	1.83	650:1	1052.71	
1049.00	650:1	-1.85	-0.0570	32.51	188+50.00	1050.86	30.00	0.0570	1.71	650:1	1052.57	
1049.15	650:1	-1.67	-0.0533	31.34	188+74.52	1050.82	30.00	0.0533	1.60	650:1	1052.42	P.C.C.
1049.16	280:1	-1.66	-0.0531	31.32	188+75.00	1050.82	30.00	0.0531	1.59	280:1	1052.41	
1049.43	280:1	-1.34	-0.0442	30.38	189+00.00	1050.77	30.00	0.0442	1.33	280:1	1052.10	
1049.66	280:1	-1.06	-0.0353	30.01	189+25.00	1050.72	30.00	0.0353	1.06	280:1	1051.78	
1049.81	280:1	-0.87	-0.0290	30.00	189+42.52	1050.68	30.00	0.0290	0.87	280:1	1051.55	FULL S.E. (CURVE 2)
1049.79		-0.87	-0.0290	30.00	189+50.00	1050.66	30.00	0.0290	0.87		1051.53	
1049.73		-0.87	-0.0290	30.00	189+75.00	1050.60	30.00	0.0290	0.87		1051.47	
1049.67		-0.87	-0.0290	30.00	190+00.00	1050.54	30.00	0.0290	0.87		1051.41	
1049.61		-0.87	-0.0290	30.00	190+25.00	1050.48	30.00	0.0290	0.87		1051.35	
1049.56		-0.87	-0.0290	30.00	190+50.00	1050.43	30.00	0.0290	0.87		1051.30	
1049.50		-0.87	-0.0290	30.00	190+75.00	1050.37	30.00	0.0290	0.87		1051.24	
1049.44		-0.87	-0.0290	30.00	191+00.00	1050.31	30.00	0.0290	0.87		1051.18	
1049.52		-0.73	-0.0290	25.11	191+25.00	1050.25	30.00	0.0290	0.87		1051.12	
1049.54		-0.70	-0.0290	24.12	191+29.09	1050.24	30.00	0.0290	0.87		1051.11	FULL S.E. (CURVE 2)
1049.78	267:1	-0.40	-0.0212	19.11	191+50.00	1050.19	30.00	0.0212	0.63	267:1	1050.82	
1049.83	267:1	-0.35	-0.0194	18.00	191+54.60	1050.18	30.00	0.0194	0.58	267:1	1050.76	P.T.
1049.87	267:1	-0.29	-0.0160	17.84	191+63.76	1050.16	29.83	0.0160	0.48	267:1	1050.63	R.C.
1049.85		-0.28	-0.0160	17.65	191+75.00	1050.13	29.63	0.0118	0.35	267:1	1050.48	
1049.80		-0.28	-0.0160	17.21	192+00.00	1050.07	29.18	0.0024	0.07	267:1	1050.14	
1049.78		-0.27	-0.0160	17.10	192+06.42	1050.06	29.06	0.0000	0.00	267:1	1050.06	½ FLAT
1049.74		-0.27	-0.0160	16.78	192+25.00	1050.01	28.72	-0.0070	-0.20	267:1	1049.81	
1049.69		-0.26	-0.0160	16.36	192+49.09	1049.96	28.28	-0.0160	-0.45	267:1	1049.50	NORMAL CROWN

SUPERELEVATION TABLE - SR 729

P.I. STATION 178+44.49 | Dc = 7^ 00' 00"

LEFT					CL CONTROL		RIGHT					
ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	ELEVATION	REMARKS
1059.67		-0.12	-0.0115	10.20	174+90.00	1059.79	10.32	-0.0199	-0.21		1059.59	MEET EXIST
1059.64	222:1	-0.12	-0.0121	10.19	174+91.44	1059.76	10.34	-0.0193	-0.20	222:1	1059.56	BEGIN S.E. TRANS
1059.40		-0.16	-0.0160	10.31	175+00.00	1059.57	10.45	-0.0154	-0.16	222:1	1059.41	
1058.85		-0.17	-0.0160	10.68	175+25.00	1059.02	10.79	-0.0041	-0.04	222:1	1058.98	
1058.66		-0.17	-0.0160	10.81	175+34.11	1058.84	10.91	0.0000	0.00		1058.84	½ FLAT
1058.34		-0.18	-0.0160	11.05	175+50.00	1058.52	11.12	0.0060	0.07	267:1	1058.59	
1057.88		-0.18	-0.0160	11.41	175+75.00	1058.06	11.46	0.0153	0.18	267:1	1058.24	
1057.85		-0.18	-0.0160	11.44	175+76.78	1058.03	11.49	0.0160	0.18	267:1	1058.21	
1057.36	267:1	-0.29	-0.0247	11.78	176+00.00	1057.65	11.80	0.0247	0.29	267:1	1057.94	
1056.87	267:1	-0.41	-0.0341	12.00	176+25.00	1057.28	12.00	0.0341	0.41	267:1	1057.69	
1056.44	267:1	-0.52	-0.0435	12.00	176+50.00	1056.96	12.00	0.0435	0.52	267:1	1057.48	
1056.05	267:1	-0.63	-0.0528	12.00	176+75.00	1056.68	12.00	0.0528	0.63	267:1	1057.32	
1056.02	267:1	-0.64	-0.0536	12.00	176+77.04	1056.66	12.00	0.0536	0.64	267:1	1057.31	P.C.
1055.71	267:1	-0.75	-0.0622	12.00	177+00.00	1056.45	12.33	0.0622	0.77	267:1	1057.22	
1055.41	267:1	-0.86	-0.0716	12.00	177+25.00	1056.27	13.42	0.0716	0.96	267:1	1057.23	
1055.18		-0.96	-0.0800	12.00	177+47.44	1056.14	14.70	0.0800	1.18	267:1	1057.31	
1055.16		-0.96	-0.0800	12.00	177+50.00	1056.12	14.84	0.0800	1.19		1057.31	
1054.99		-0.96	-0.0800	12.00	177+75.00	1055.95	16.26	0.0800	1.30		1057.25	
1054.78		-0.96	-0.0800	12.00	178+00.00	1055.74	17.67	0.0800	1.41		1057.15	
1054.52		-0.96	-0.0800	12.00	178+25.00	1055.48	19.08	0.0800	1.53		1057.01	
1054.23		-0.96	-0.0800	12.00	178+50.00	1055.19	20.49	0.0800	1.64		1056.83	
1053.90		-0.96	-0.0800	12.00	178+75.00	1054.86	21.89	0.0800	1.75		1056.61	
1053.53		-0.96	-0.0800	12.00	179+00.00	1054.49	23.28	0.0800	1.86		1056.35	
1053.11		-0.96	-0.0800	12.00	179+25.00	1054.07	24.66	0.0800	1.97		1056.05	
1052.88		-0.96	-0.0800	12.00	179+37.93	1053.84	25.37	0.0800	2.03		1055.87	
1052.72	254:1	-0.90	-0.0752	12.00	179+50.00	1053.62	26.03	0.0752	1.96	254:1	1055.58	
1052.34	254:1	-0.78	-0.0654	12.00	179+75.00	1053.13	27.38	0.0654	1.79	254:1	1054.92	
1052.24	254:1	-0.76	-0.0630	12.00	179+81.03	1053.00	27.71	0.0630	1.75	254:1	1054.75	
												P.T. 180+08.33

SUPERELEVATION TABLE
SR 729/BLUEGRASS ROUNDABOUT APPROACHES

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 201 TOTAL 246

FAY-435-1.52

MODEL: Sheet_SR729_Bluegrass PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:41:03 PM USER: dan-f
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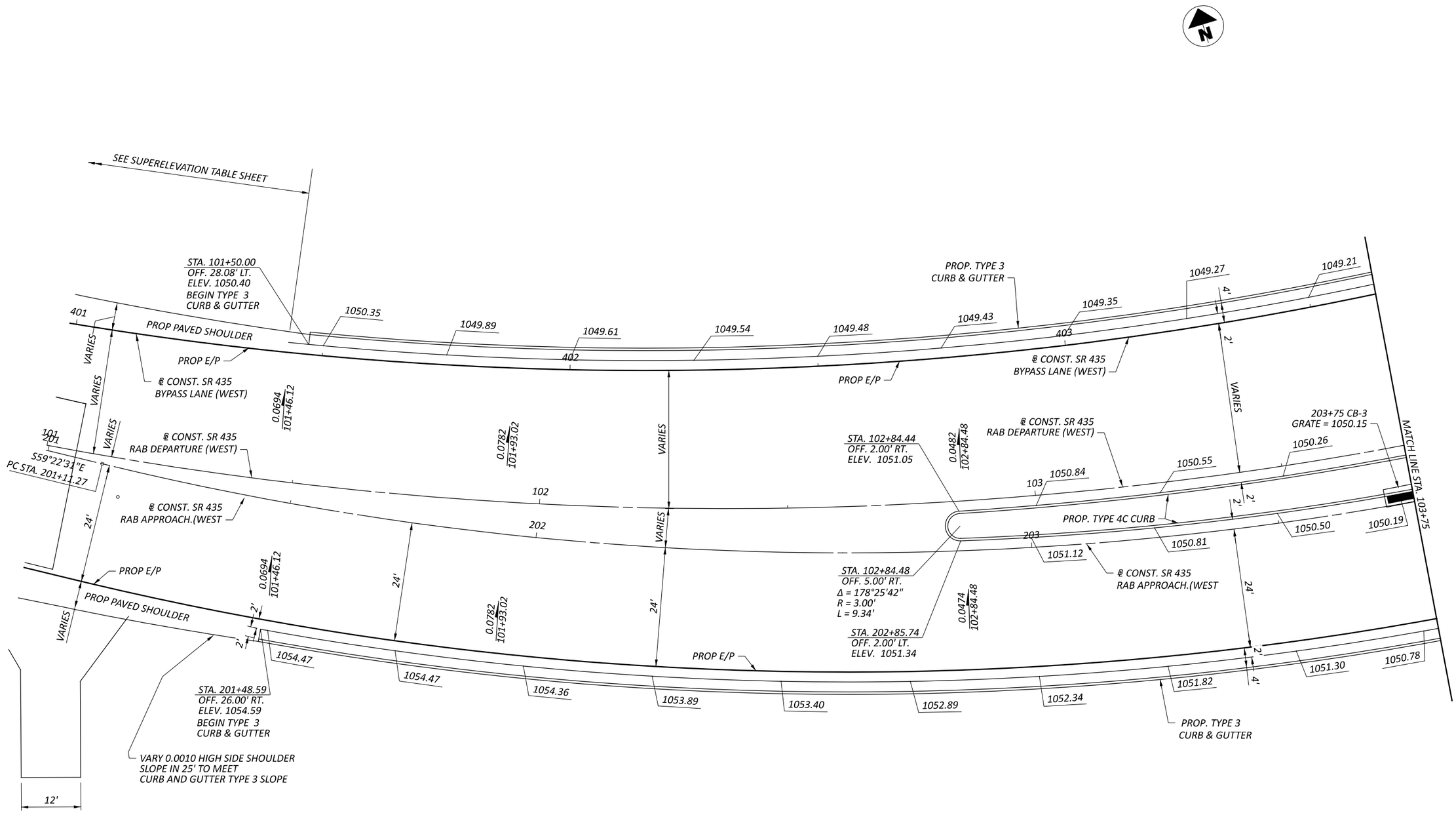

HORIZONTAL
SCALE IN FEET
0 5 10 20

PAVEMENT DETAILS
SR 435 (WEST) STA.101+00 TO STA. 103+75

FAY-435-1.52

MODEL: SR435WEST - SR435WEST [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:41:12 PM USER: dan-f
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DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER	DPF
REVIEWER	DCJ 05/10/24
PROJECT ID	117955
SHEET	P. 202
TOTAL	246

PAVEMENT DETAILS
SR 435 (WEST) STA. 103+75 TO STA. 106+50

HORIZONTAL SCALE IN FEET
0 5 10 20

MATCH LINE STA. 103+75
PROP. TYPE 3 CURB & GUTTER
PROP E/P
℄ CONST. SR 435 BYPASS LANE (WEST)
PCC STA. 404+19.55
404+80.00
405+25.00
405+64.54
1047.34
406+06.50
PROP. TYPE 3 CURB & GUTTER
℄ CONST. SR 435 BYPASS LANE (WEST)
0.0160 104+00
0.0160
405+38.56
0.0160 405+00
0.0200
0.0120 206+19.73
0.0200 106+22.55
VARIES
18'
24'
12'
4'
2'
739.30' R
STA. 105+60.42 OFF. 18.75' LT.
STA. 405+38.56 OFF. 20.75' RT.
L = 8.38'
R = 2.75'
STA.105+70 , CB-3 GRATE = 1047.76
E/P:
Δ = 12°52'26"
R = 400.00'
L = 89.88'
RAB I.C.D.
℄ CONST. SR 435 RAB DEPARTURE
℄ CONST. SR 435 RAB DEPARTURE (WEST)
℄ CONST. SR 435 RAB APPROACH. (WEST)
PROP. TYPE 4C CURB
STA. 106+28.16 = STA. 12+91.93 ℄ RAB I.C.D.
STA. 106+54.87 = STA. 22+26.08 ℄ RAB MID.
STA. 106+23.73 OFF. 5.00' RT.
L = 7.00'
R = 3.00'
STA. 206+16.01 OFF. 5.00' LT.
L = 6.03'
R = 3.00'
℄ RAB MID.
℄ RAB INNER TRANSITION
℄ RAB INNER
℄ RAB I.C.D.
℄ CONST. SR 435 RAB APPROACH.
STA. 0+00 ℄ CONST. RAB INNER TRANSITION = STA. 206+50.23 ℄ CONST. SR 435 APPROACH (WEST)
PT STA. 206+43.15
S45°18'05"E
PRC STA. 205+24.25
205+63.26
STA. 205+02.26 OFF. 26.00' RT. ELEV. 1048.16
EDGE OF SHOULDER:
ARC CENTER:
STA. 205+02.26, 174.00' RT
Δ = 72°47'49"
R = 148.00'
L = 188.04'
PROP. TYPE 3 CURB & GUTTER
PROP. TYPE 4C CURB
PROP. TYPE 3 CURB & GUTTER
PROP. TYPE 3 CURB & GUTTER

1049.15 1048.97 1048.68 1048.38 1048.08 1047.77 1047.48 1047.35 1047.35 1047.45 1047.67 1048.00 1048.32 1047.99 1048.97 1048.63 1048.30 1048.46
1047.72 1047.67 1047.67 1047.77 1047.82 1047.98 1048.80
1049.98 1049.69 1049.42 1048.60 1048.33 1048.12 1048.08 1048.19
1049.88 1049.57 1049.26 1048.95 1048.87 1049.15 1048.63 1048.35 1048.22 1048.25 1048.46
1050.26 1049.74 1049.21 1048.69 1048.19 1047.89 1047.74 1047.78 1048.00 1048.37 1048.76 1048.97

404 405 406 104 105 106 204 205 206 207

FAY-435-1.52

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DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 203 TOTAL 246

HORIZONTAL SCALE IN FEET
0 5 10 20

PAVEMENT DETAILS
SR 435 (EAST) STA. 108+25 TO STA. 110+00

STA. 311+68.22
OFF. 275.56' LT.

STA. 309+29.03
OFF. 92.00' LT.

EDGE OF SHOULDER:
Δ = 29°10'52"
R = 398.00'
L = 202.70'

STA. 308+32.52
OFF. 30.29' LT.
ELEV. 1048.62

EDGE OF SHOULDER:
Δ = 61°19'50"
R = 78.00'
L = 83.49'

STA. 309+29.03
OFF. 14.00' LT.
ELEV. 1047.58

311+00.00

PROP. TYPE 3
CURB & GUTTER

PROP E/P

STA. 308+34.06 =
STA. 25+51.82
℄ RAB MID.

℄ CONST. SR 435
RAB APPROACH (EAST)

STA. 308+56.41 =
STA. 16+45.35
℄ RAB I.C.D.

STA. 308+63.58
OFF. 4.00' RT.
L = 3.87'
R = 2.00'

PT STA. 309+24.30

PC STA. 309+63.75

S69°27'01"E

S59°58'05"E

PT STA. 310+49.97

P.T.
STA. 109+46.51
OFF. 2.00' LT.
ELEV. 1047.71

PROP. TYPE 4C CURB

STA. 110+60 CB-3A
GRATE = 1048.97

STA. 108+14.98 =
STA. 34+43.51
℄ RAB INNER

STA. 108+31.20 =
STA. 25+33.95
℄ RAB MID.

℄ CONST.
SR 435 (EAST)

STA. 108+49.35 =
STA. 16+35.89
℄ RAB I.C.D.

STA. 208+66.47
OFF. 8.09' LT.
L = 6.19'
R = 3.00'

TANGENT

P.C.
STA. 208+83.57
OFF. 3.66' LT.
ELEV. 1048.32

STA. 208+66.11
OFF. 5.11' LT.
ELEV. 1048.66

CURB:
Δ = 21°41'46"
R = 200.00'
L = 75.73'

℄ CONST. SR 435
RAB DEPARTURE (EAST)

STA. 16+01.84 =
STA. 208+51.51
℄ RAB I.C.D.

PRC STA. 209+59.72

℄ CONST. SR 435
RAB DEPARTURE (EAST)

STA. 109+48.09
℄ CONST. SR 435 (EAST)

STA. 109+64.86
OFF. 14.00' RT.
ELEV. 1047.57

℄ CONST. SR 435 (EAST)

PROP E/P

PROP. TYPE 3
CURB & GUTTER

EDGE OF SHOULDER:
Δ = 41°31'20"
R = 198.00'
L = 143.49'

POT STA. 208+02.08

STA. 208+19.34
OFF. 19.65' RT.
ELEV. 1049.07

EDGE OF SHOULDER:
Δ = 85°18'10"
R = 73.00'
L = 108.68'

EDGE OF SHOULDER ARC CENTER:
STA. 208+15.85
OFF. 92.62' RT.

EDGE OF SHOULDER
ARC CENTER:
STA. 109+64.86, OFF. 212.00' RT

MATCH LINE STA. 111+00

DESIGN AGENCY	Palmer ENGINEERING 8350 E. KEMPER RD. SUITE B CINCINNATI,OH 45249 513-469-1600
DESIGNER	DPF
REVIEWER	DCJ 05/10/24
PROJECT ID	117955
SHEET / TOTAL	P. 204 / 246

FAY-435-1.52

MODEL: CLP_SR435_EAST - SR435EAST [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:41:16 PM USER: dan-f
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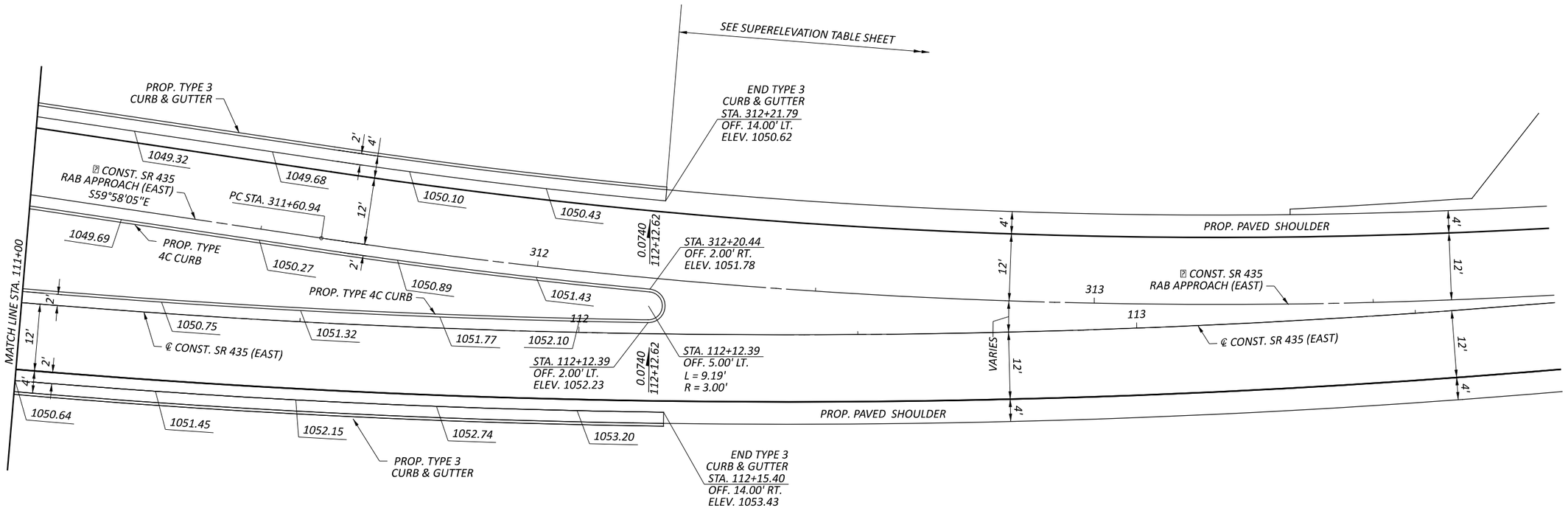

HORIZONTAL
SCALE IN FEET
0 5 10 20

PAVEMENT DETAILS
SR 435 (EAST) STA. 110+00 TO STA. 114+00

FAY-435-1.52

MODEL: CLP_SR435_EAST - SR435EAST-1 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:41:17 PM USER: dan-f
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DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER
DPF

REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 205 | TOTAL 246

℄ CONST. RAB INNER
CURVE DATA
P.I. = STA. 0+57.60
Δ = 77°47'44" RT
Dc = 77°25'36"
R = 74.00'
T = 57.6'
L = 97.89'
E = 19.78'

℄ CONST. RAB INNER
CURVE DATA
P.I. = STA. 1+13.22
Δ = 08°46'02" RT
Dc = 28°38'52"
R = 200.00'
T = 15.33'
L = 30.6'
E = .59'

= ℄ CONST. RAB INNER TRANSITION STATIONS

℄ RAB I.C.D.
CURVE DATA
P.I. = STA. 10+00.00
Δ = 360°00'00" LT
Dc = 52°05'13"
R = 110.00'
T = 0.00'
L = 691.15'
E = 0.00'

℄ RAB MID.
CURVE DATA
P.I. = STA. 20+00.00
Δ = 360°00'00" LT
Dc = 62°16'41"
R = 92.00'
T = 0.00'
L = 578.05'
E = 0.00'

℄ RAB INNER
CURVE DATA
P.I. = STA. 30+00.00
Δ = 360°00'00" LT
Dc = 75°23'21"
R = 76.00'
T = 0.00'
L = 477.52'
E = 0.00'

HORIZONTAL SCALE IN FEET
0 5 10 20

PAVEMENT DETAILS ROUNDABOUT CENTRAL ISLAND

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 206 TOTAL 246

FAY-435-1.52

MODEL: RAB CENTRAL [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:41:18 PM USER: dan-f
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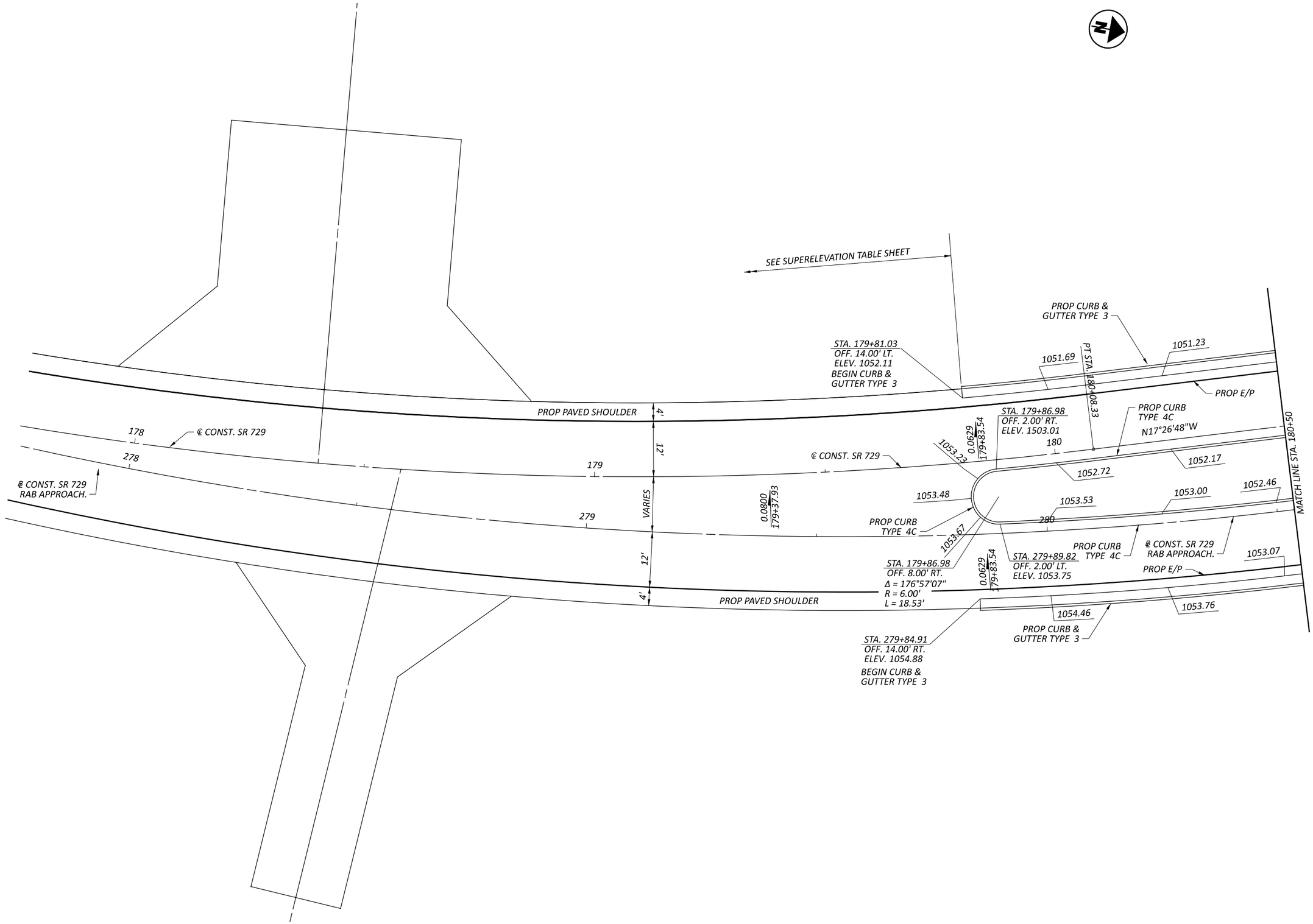

HORIZONTAL SCALE IN FEET
0 5 10 20

PAVEMENT DETAILS
SR 729 STA. 177+75 TO STA. 180+50

FAY-435-1.52

MODEL: SR729 SOUTH [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:41:30 PM USER: dan-f
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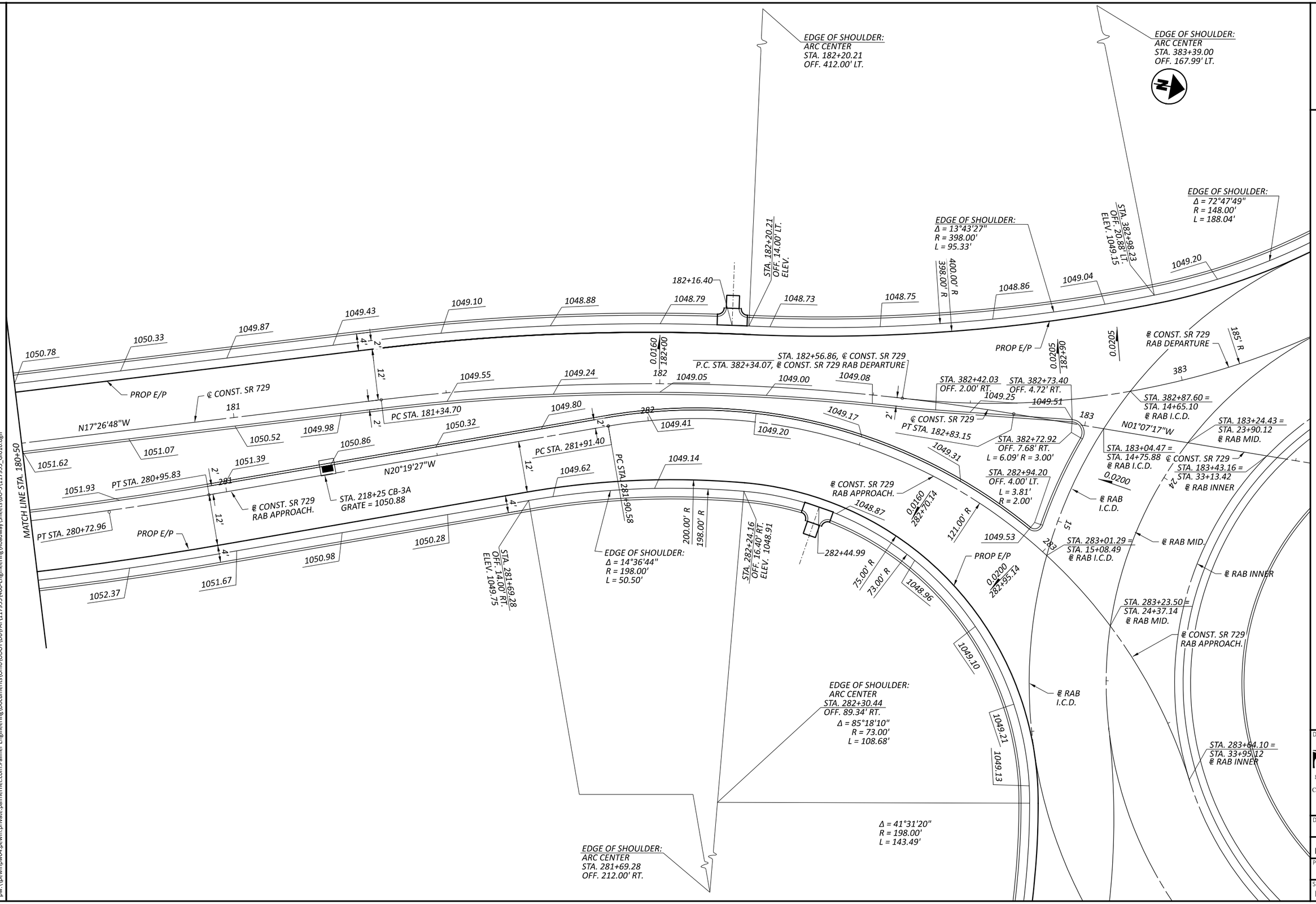
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 207 TOTAL 246



HORIZONTAL SCALE IN FEET
0 5 10 20

PAVEMENT DETAILS
SR 729 STA. 180+50 TO STA. 183+25

FAY-435-1.52

MODEL: SR729 SOUTH-1 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:41:34 PM USER: dan-f
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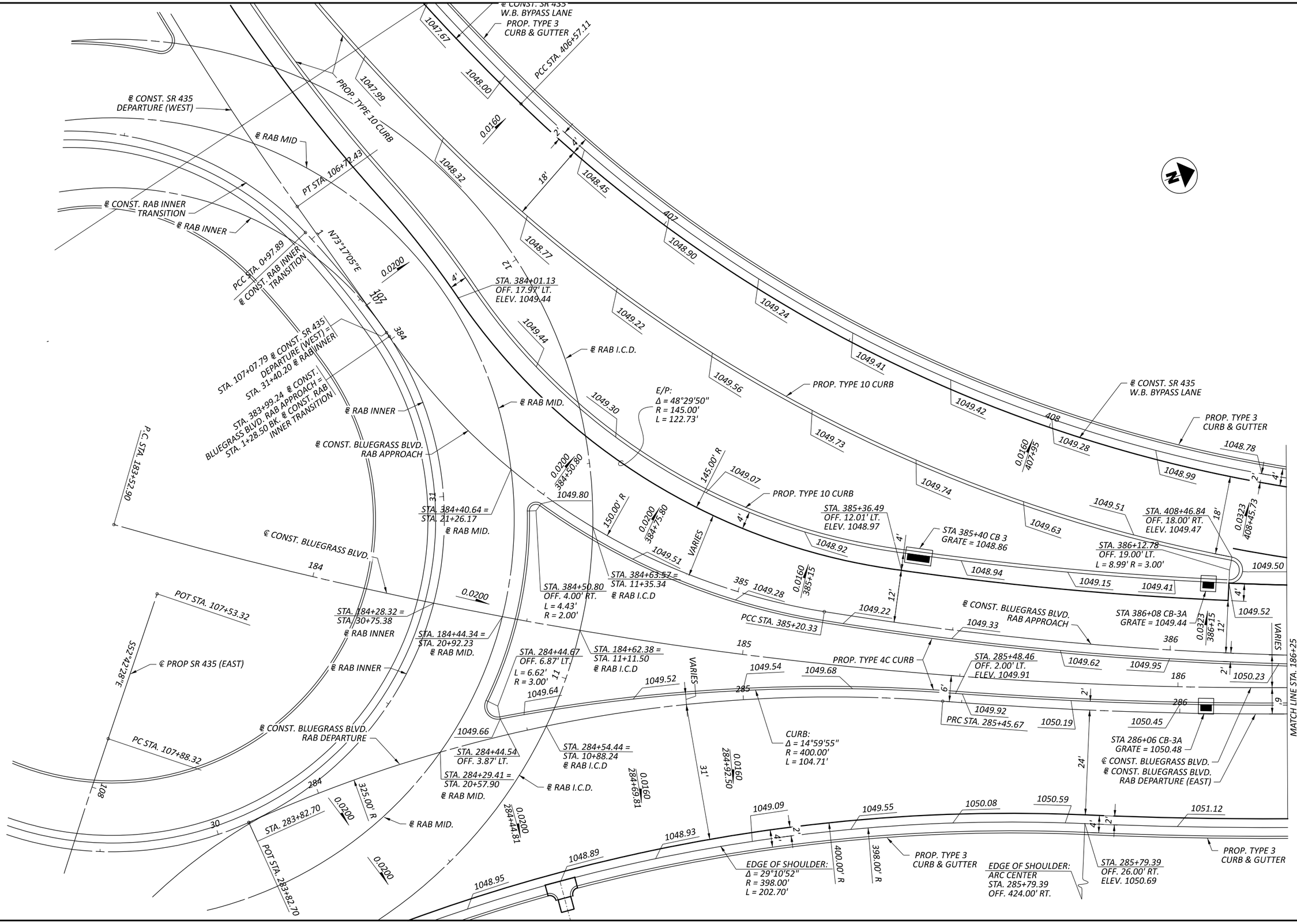
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER
DPF

REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 208 TOTAL 246



PAVEMENT DETAILS
BLUEGRASS BLVD. STA. 183+52.90 TO STA. 186+25

FAY-435-1.52

MODEL: BLUEGASS RAB NORTH (Sheet) PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:41:45 PM USER: dan-f
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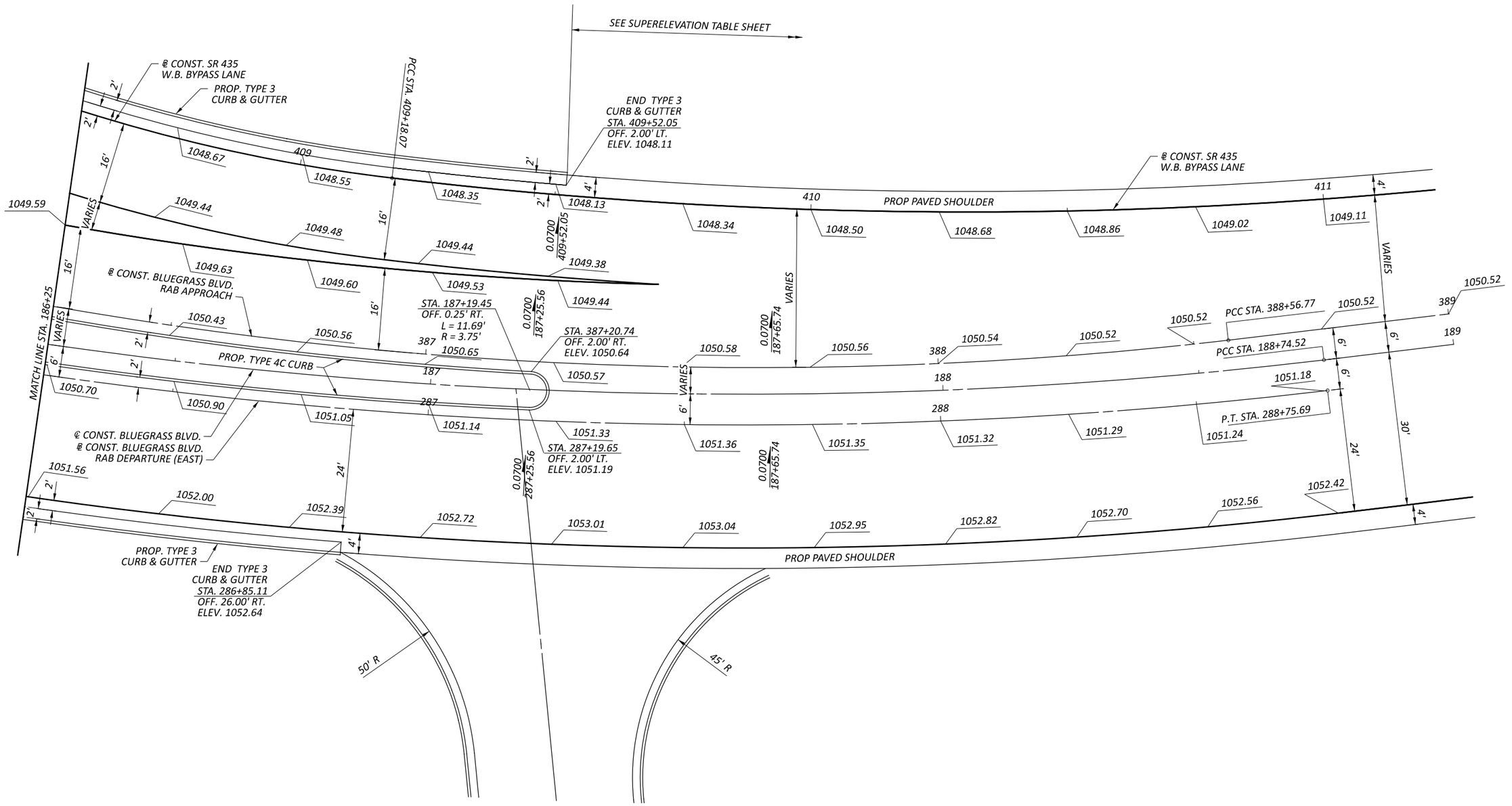
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI, OH 45249
513-469-1600

DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 209 TOTAL: 246



HORIZONTAL SCALE IN FEET
0 5 10 20

PAVEMENT DETAILS
BLUEGRASS BLVD. STA. 186+25 TO STA. 189+00

FAY-435-1.52

MODEL: BLUEGASS RAB NORTH-1 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:41:47 PM USER: dan-f
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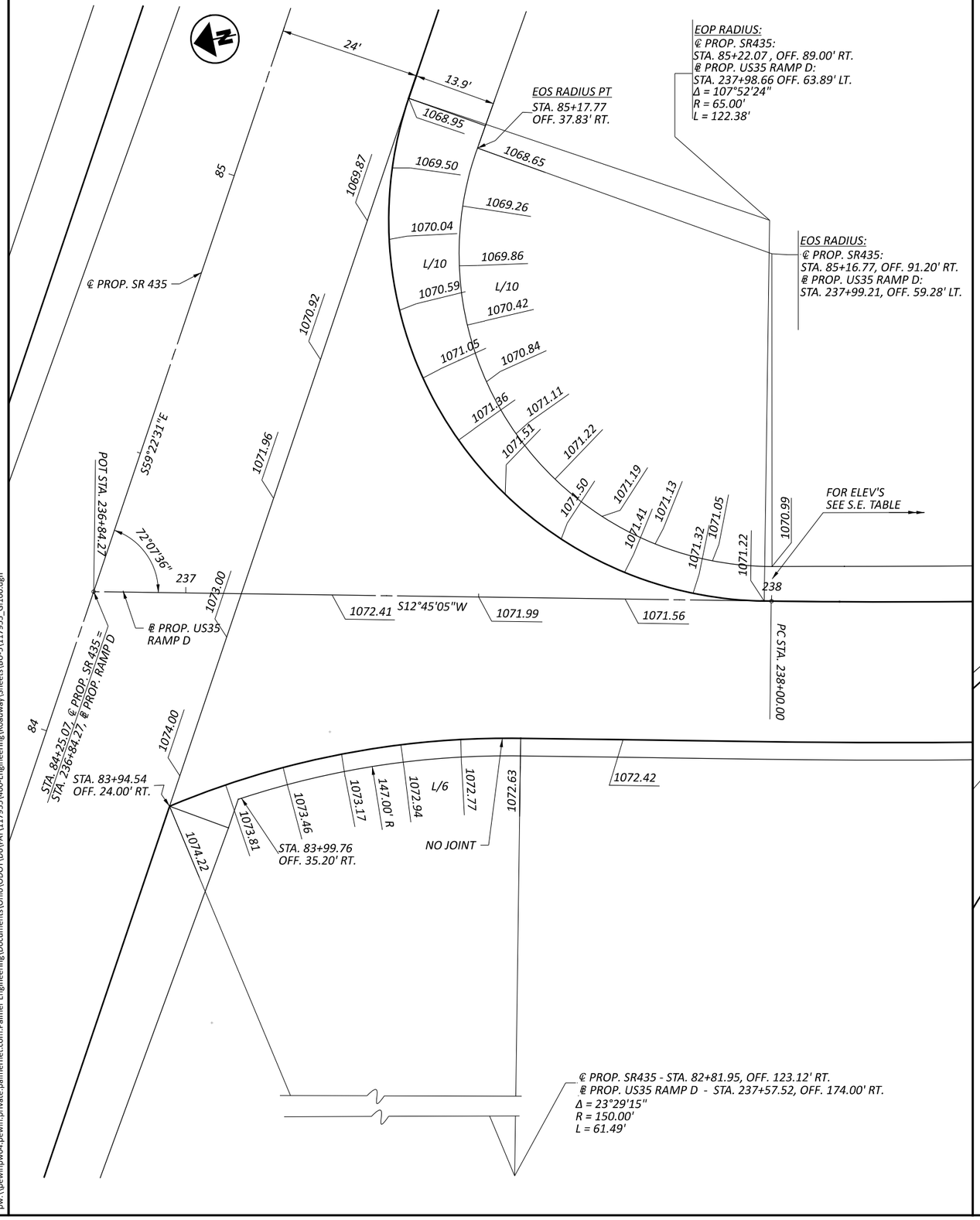
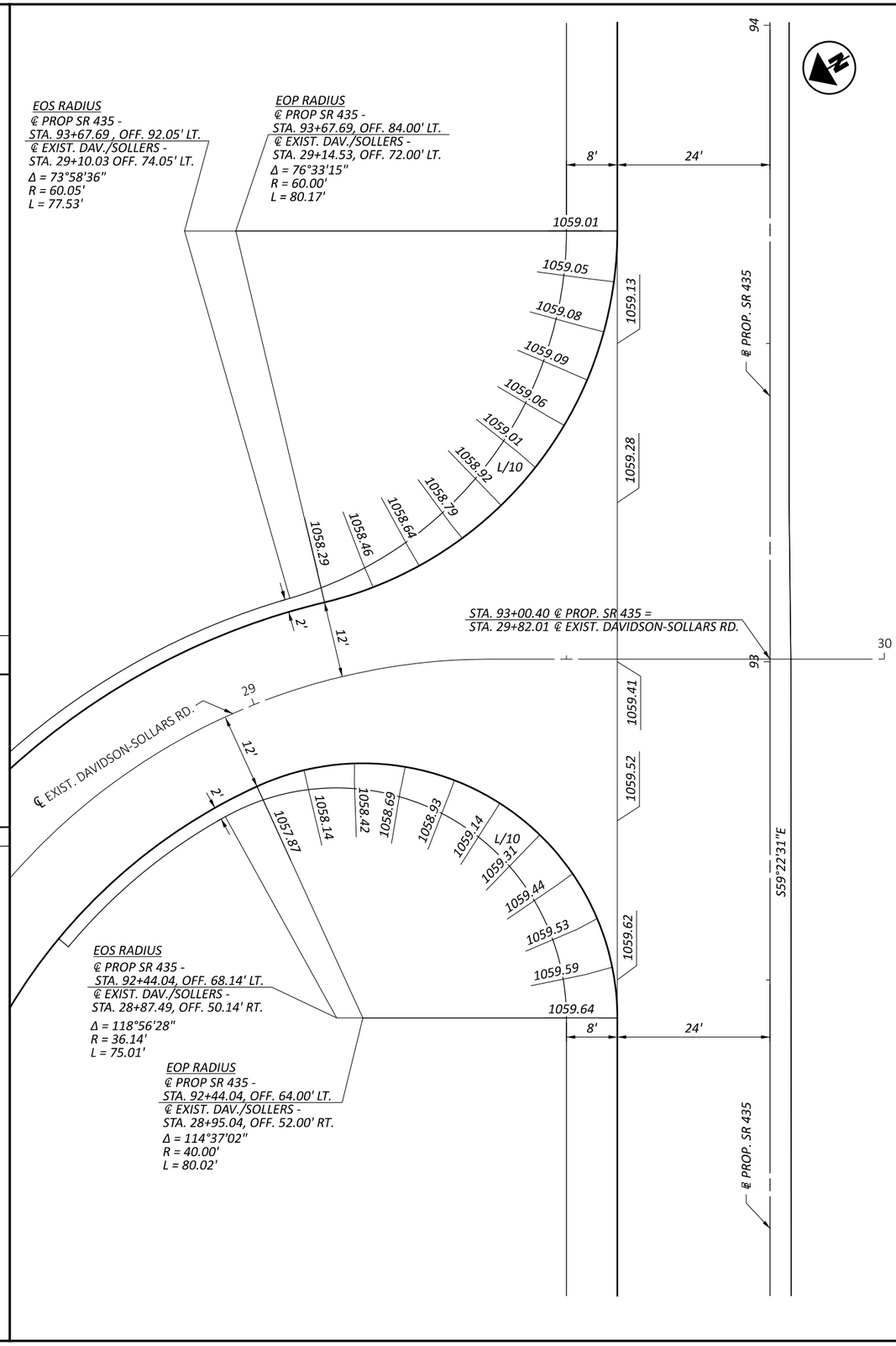
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 210 TOTAL 246





HORIZONTAL SCALE IN FEET
0 5 10 20

INTERSECTION DETAILS
SR 435 / US 35 RAMP D / DAVIDSON-SOLLARS RD

FAY-435-1.52

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI, OH 45249
513-469-1600

DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 211 TOTAL: 246

MODEL: BLP_US35_RAMPD - Intersection Detail [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:42:02 PM USER: dan-f
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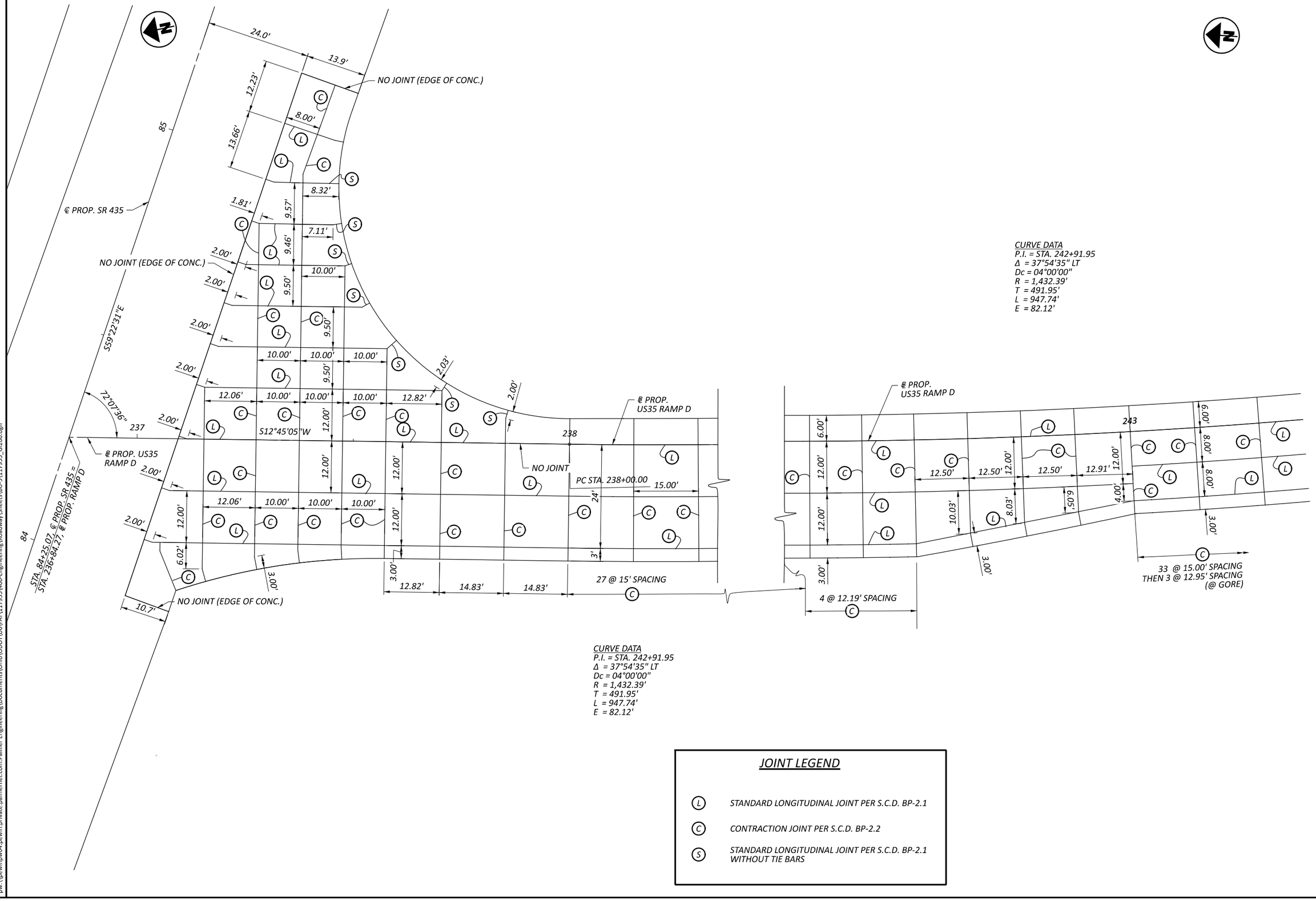

CURVE DATA
P.I. = STA. 242+91.95
Δ = 37°54'35" LT
Dc = 04°00'00"
R = 1,432.39'
T = 491.95'
L = 947.74'
E = 82.12'

CURVE DATA
P.I. = STA. 242+91.95
Δ = 37°54'35" LT
Dc = 04°00'00"
R = 1,432.39'
T = 491.95'
L = 947.74'
E = 82.12'

JOINT LEGEND

- (L) *STANDARD LONGITUDINAL JOINT PER S.C.D. BP-2.1*
- (C) *CONTRACTION JOINT PER S.C.D. BP-2.2*
- (S) *STANDARD LONGITUDINAL JOINT PER S.C.D. BP-2.1 WITHOUT TIE BARS*

HORIZONTAL SCALE IN FEET
0 5 10 20

JOINTING DETAILS
SR 435 / US 35 RAMP D

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
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513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 212 TOTAL 246

FAY-435-1.52

MODEL: BLP_US35_RAMPD - Joint Details Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:42:11 PM USER: dan-f
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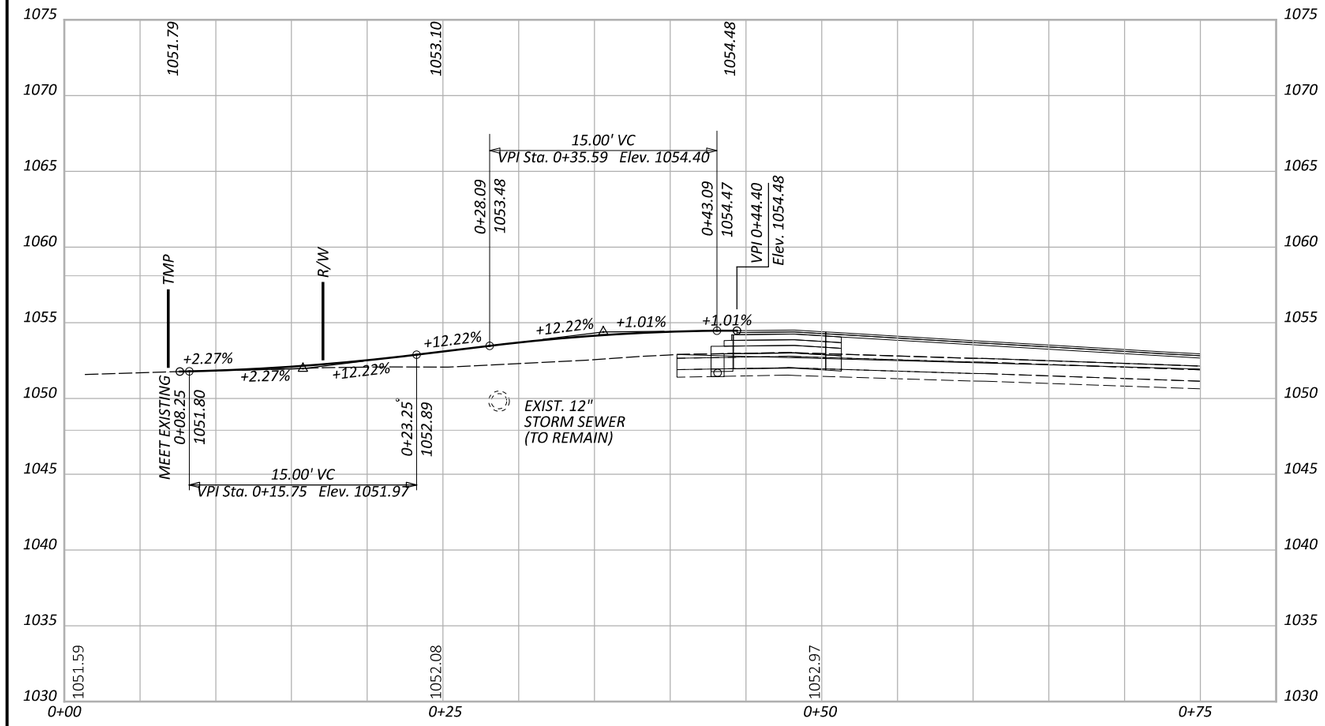

RESIDENTIAL DRIVE - RIGHT
SR 435 WEST STA. 101+00.6

FIELD DRIVE - RIGHT
SR 435 WEST RAB APPROACH STA. 204+24

DRIVE PROFILES
STA 101+00.6 SR435 WEST STA 204+24.00 / SR435 WEST RAB APPROACH

FAY-435-1.52

MODEL: SR435_WEST [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:42:25 PM USER: dan-f
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DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
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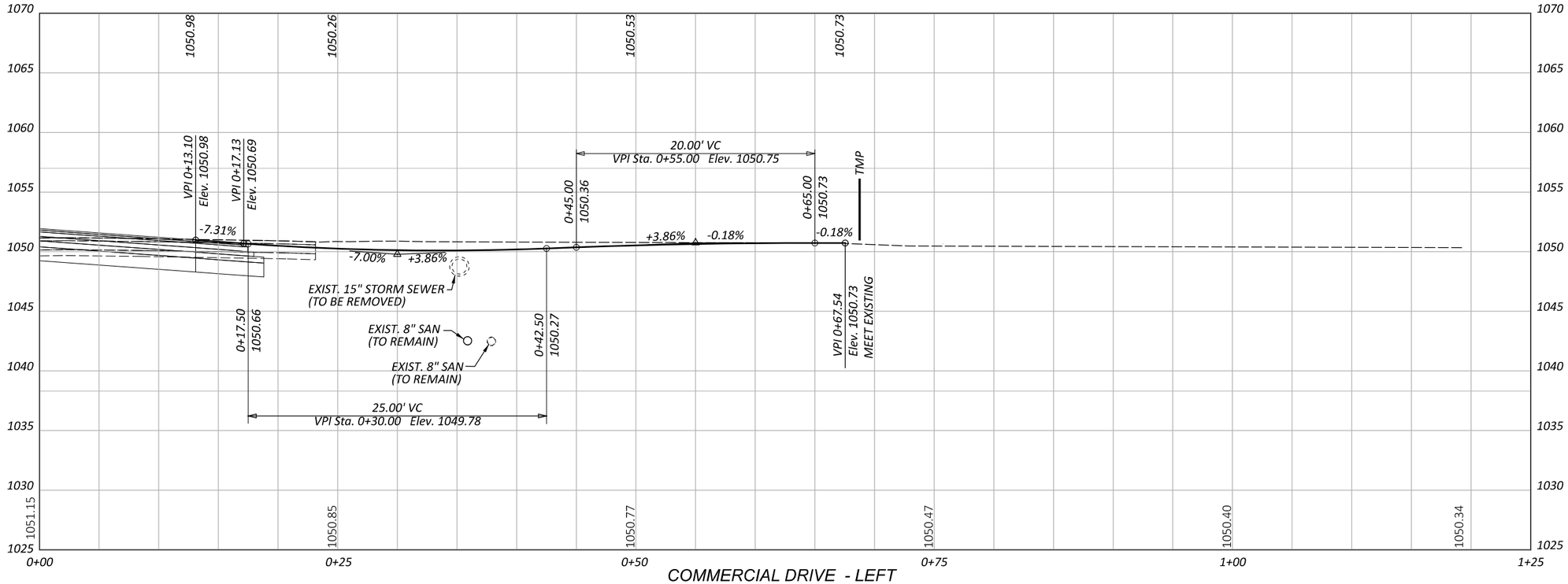
513-469-1600

DESIGNER
DPF

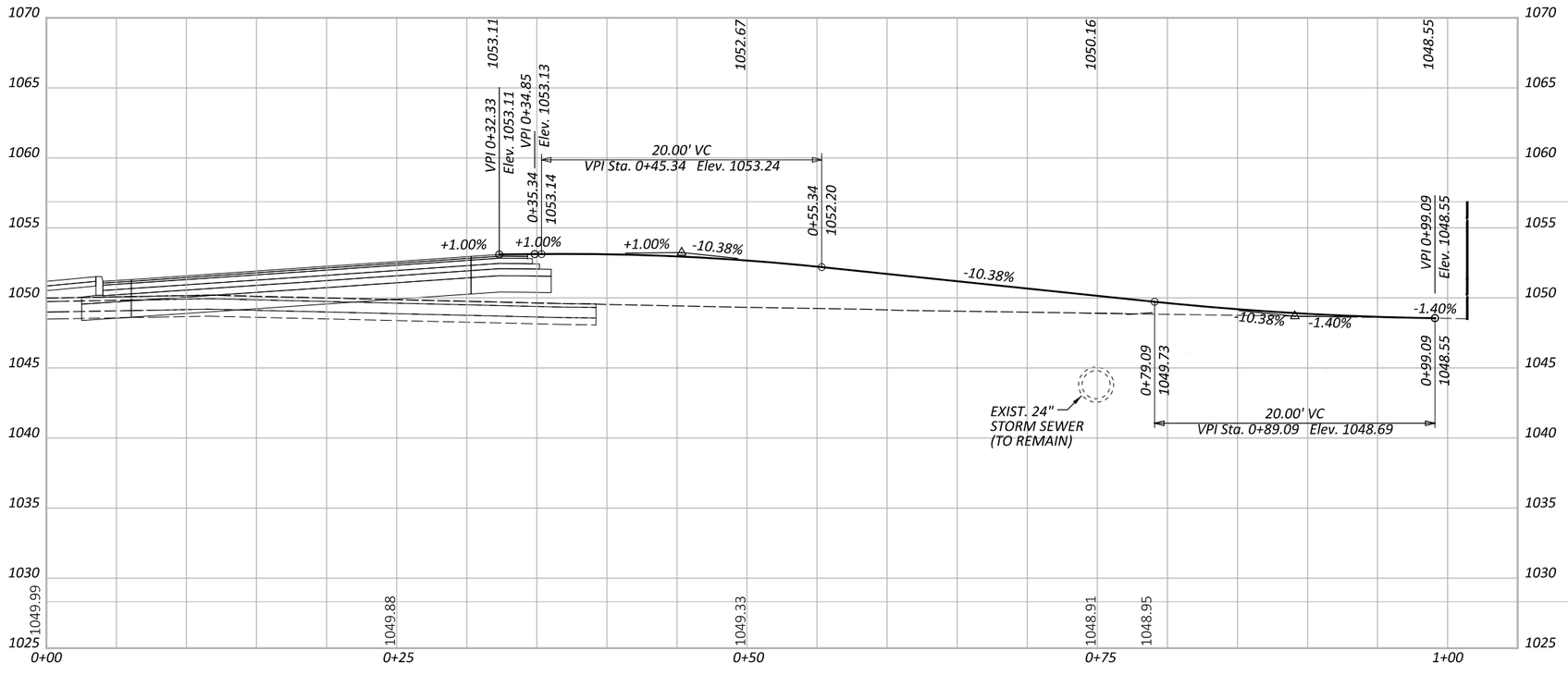
REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 213 TOTAL 246



COMMERCIAL DRIVE - LEFT
SR 435 EAST STA. 113+87.85



COMMERCIAL DRIVE - RIGHT
BLUEGRASS BLVD STA. 187+16.69

DRIVE PROFILES
SR 435 EAST / STA 187+16.69 BLUEGRASS BLVD
STA 113+87.85 SR 435 EAST

FAY-435-1.52

MODEL: SR435_EAST_BLUEGRASS_BLVD [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:42:26 PM USER: dan-f
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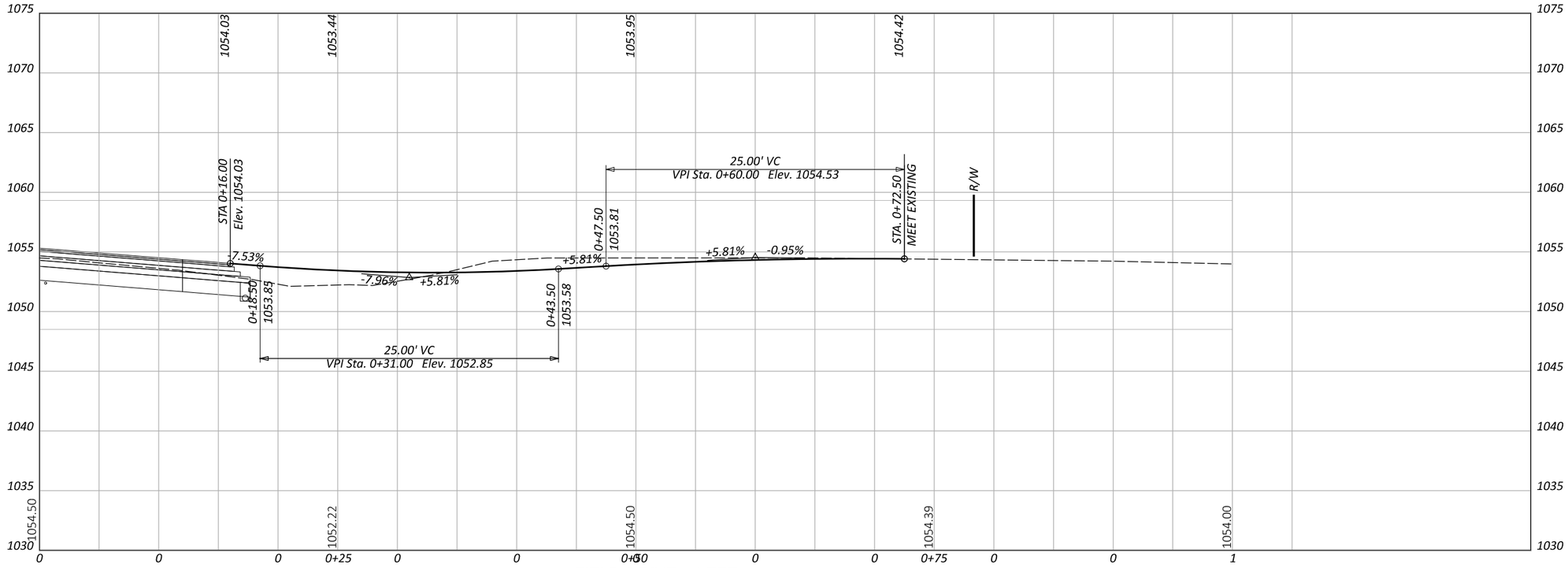
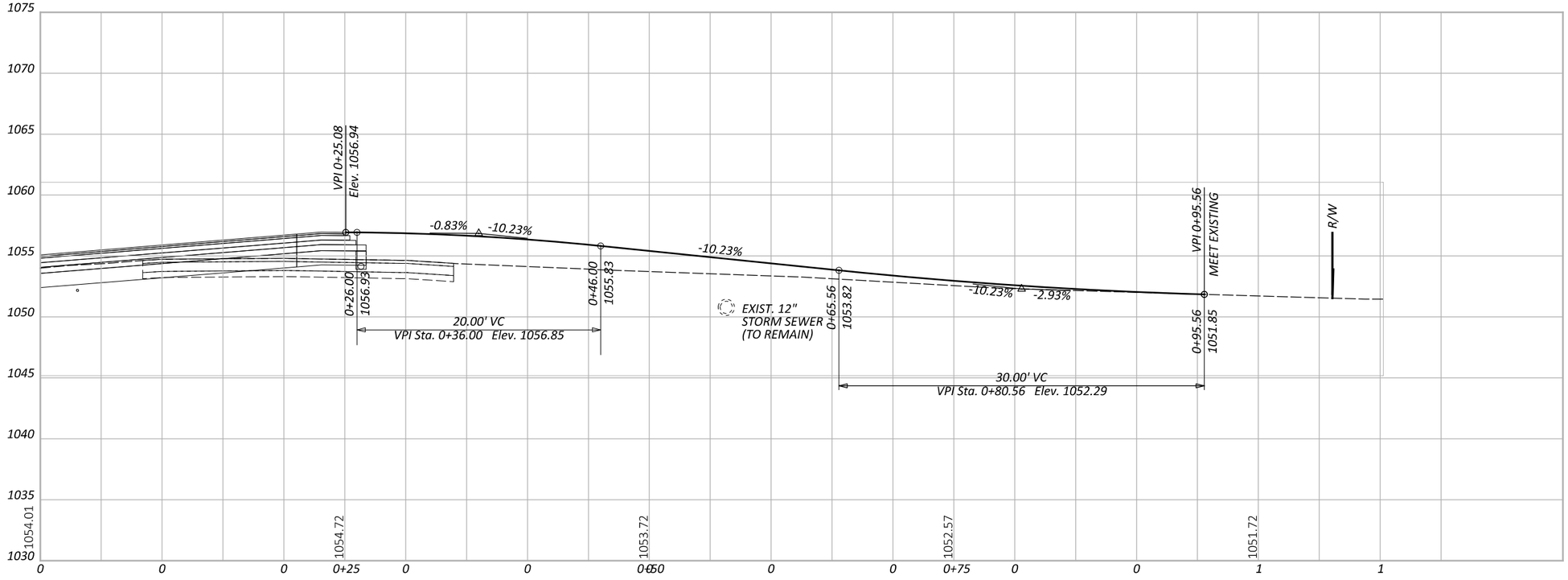
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER
DPF
REVIEWER
DCJ 05/10/24
PROJECT ID
117955
SHEET P. 214 TOTAL 246



FIELD DRIVE - LEFT
SR 729 - STA 178+40.00



FIELD DRIVE RIGHT
SR 729 STA 178+58.00

DRIVE PROFILES
STA 178+40.00 SR 729 / STA 178+58.00 SR 729

FAY-435-1.52

MODEL: SR729 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:42:27 PM USER: dan-f
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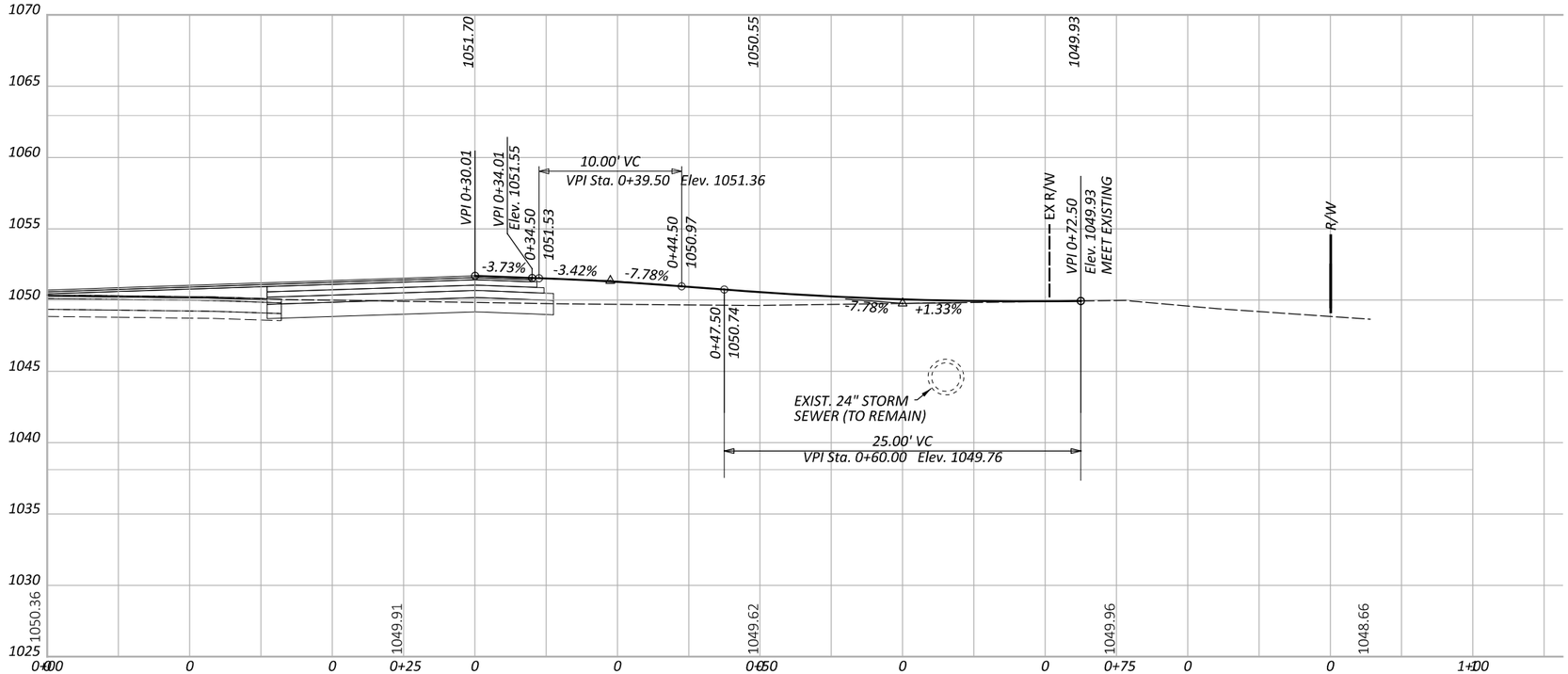
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER
DPF

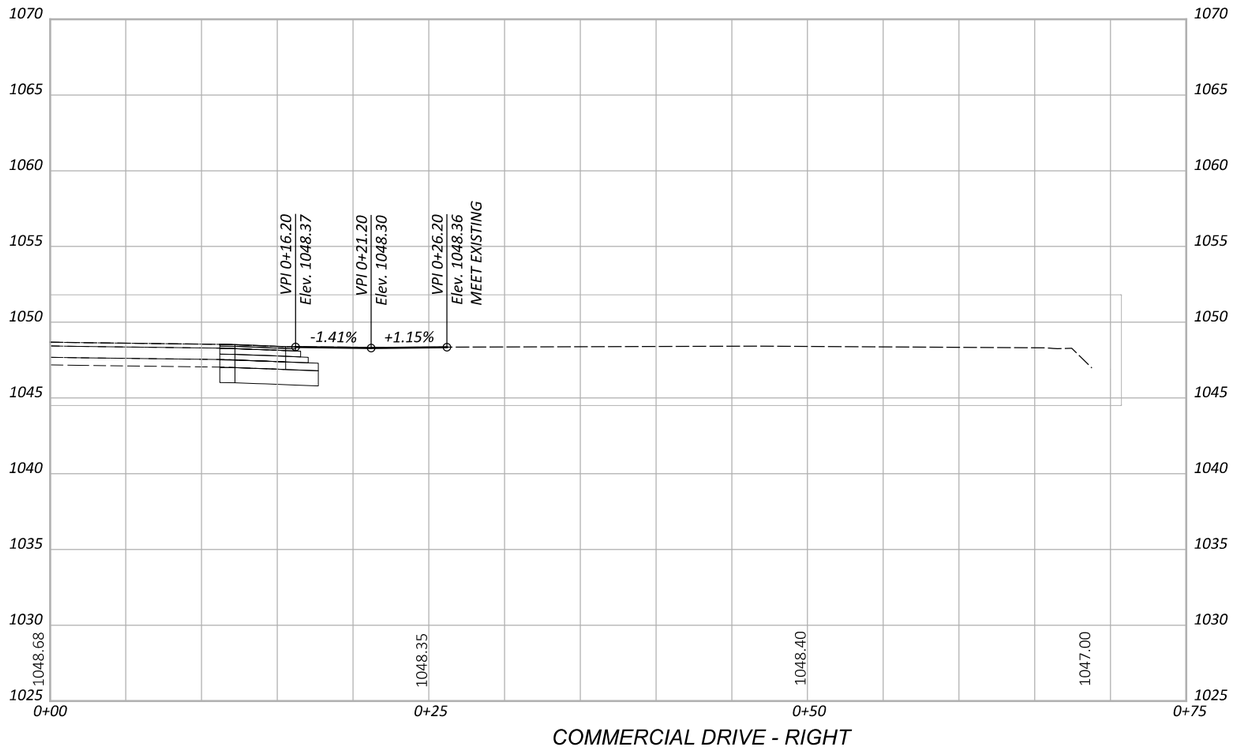
REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 215 TOTAL 246



COMMERCIAL DRIVE - RIGHT
BLUEGRASS BLVD - STA 189+30.28



COMMERCIAL DRIVE - RIGHT
BLUEGRASS BLVD - STA 201+33.67

DRIVE PROFILES
STA 189+30.28 BLUEGRASS BLVD / STA 201+33.67 BLUEGRASS BLVD

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER
DPF

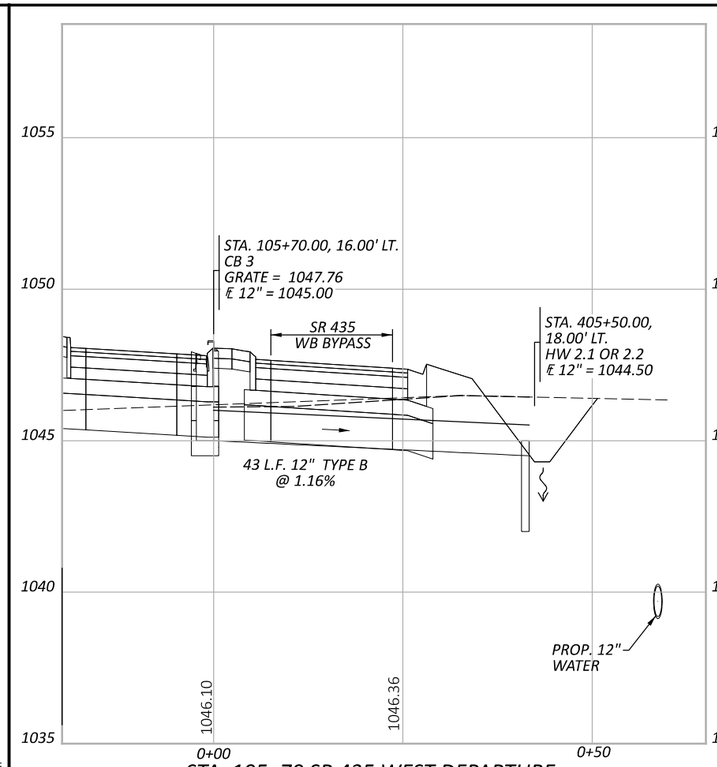
REVIEWER
DCJ 05/10/24

PROJECT ID
117955

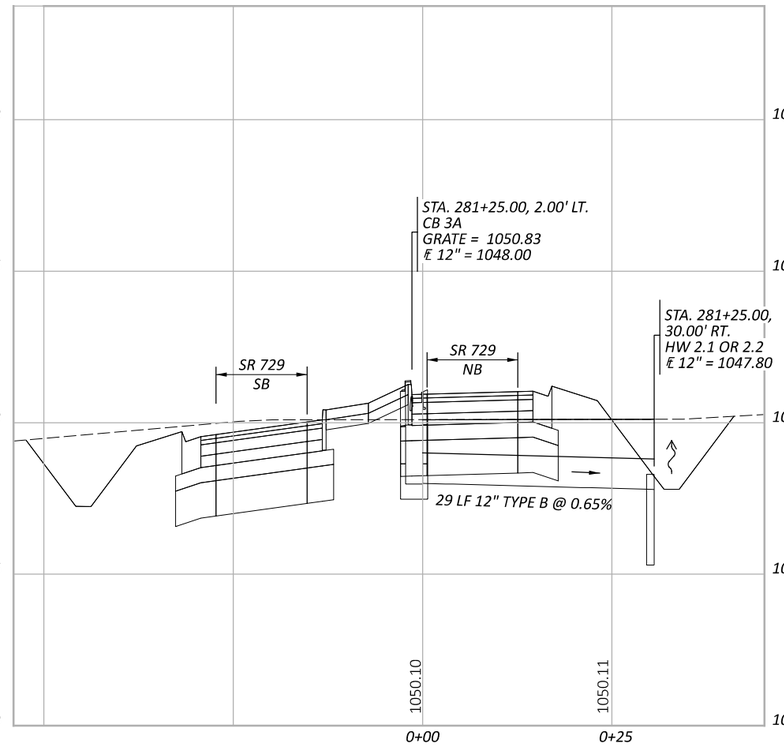
SHEET P. 216 | TOTAL 246

FAY-435-1.52

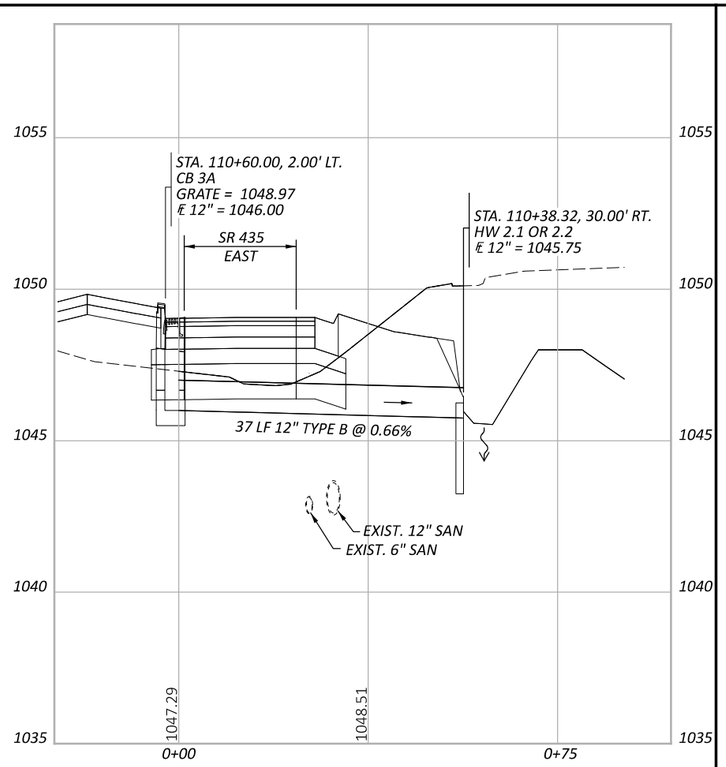
MODEL: BLUEGRASS [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:42:27 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\Roadway\Sheets\BU-5\117955_GD001.dgn



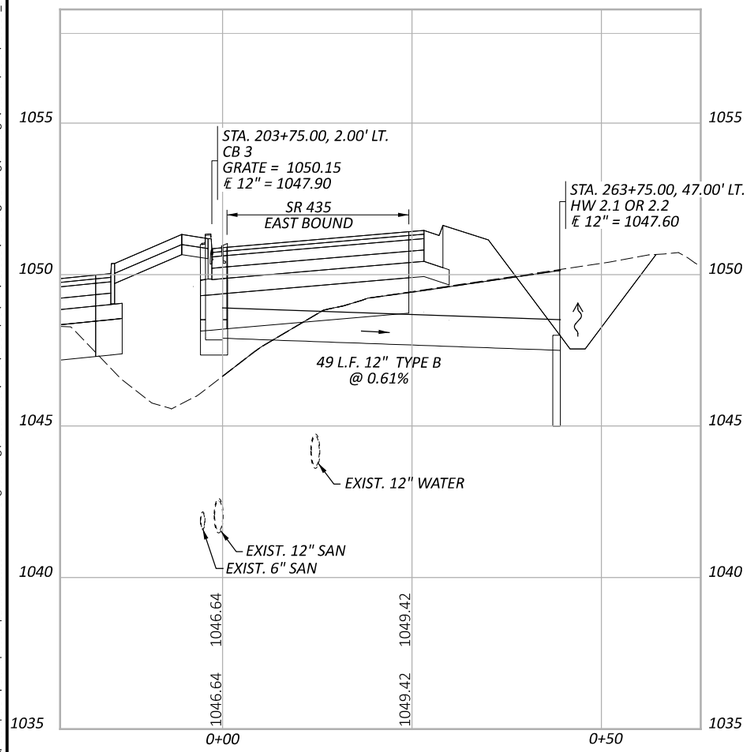
STA. 105+70 SR 435 WEST DEPARTURE
STA. 405+50 SR 435 WEST BYPASS LANE



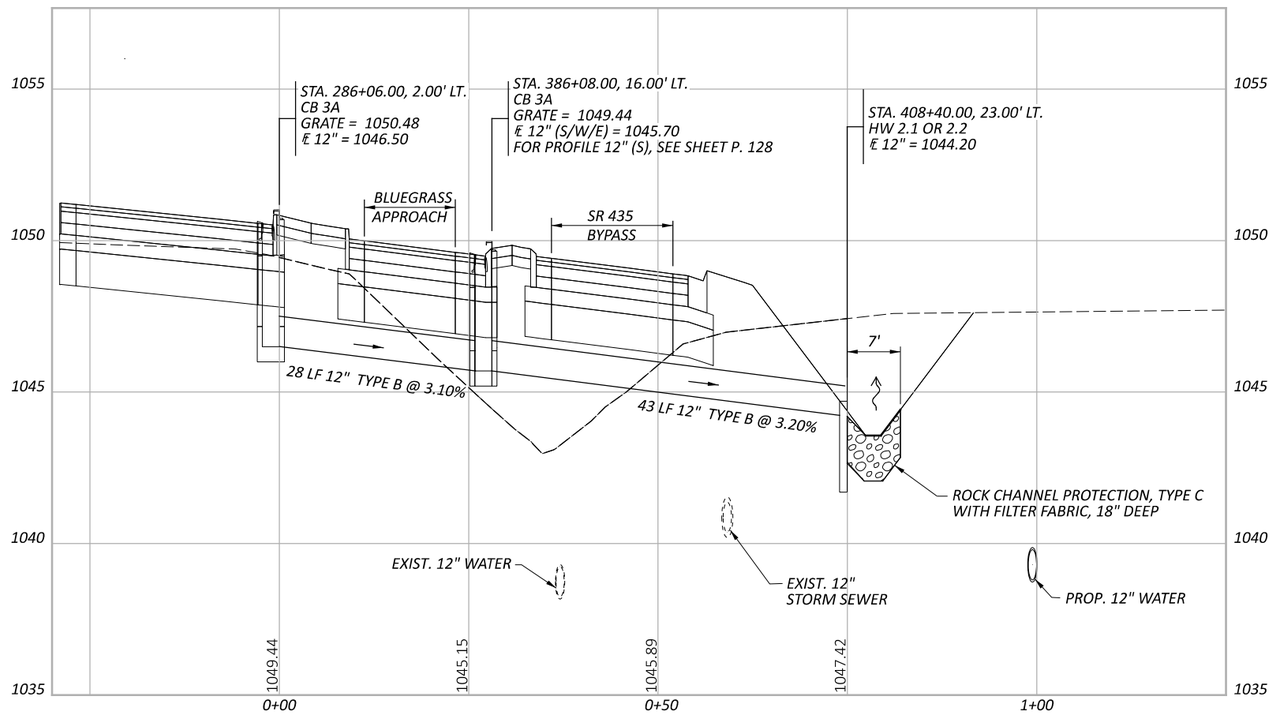
STA. 281+25 - SR 729



STA. 110+60 SR 435 EAST DEPARTURE



STA. 203+75 - SR 435 WEST RAB APPROACH



STA. 286+06 BLUE GRASS DEPARTURE / STA. 386+08 BLUE GRASS APPROACH

STORM SEWER PROFILES
SR 435/SR729/BLUEGRASS

FAY-435-1.52

MODEL: ProfileRun -Sheet 2 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:42:38 PM USER: dan-f
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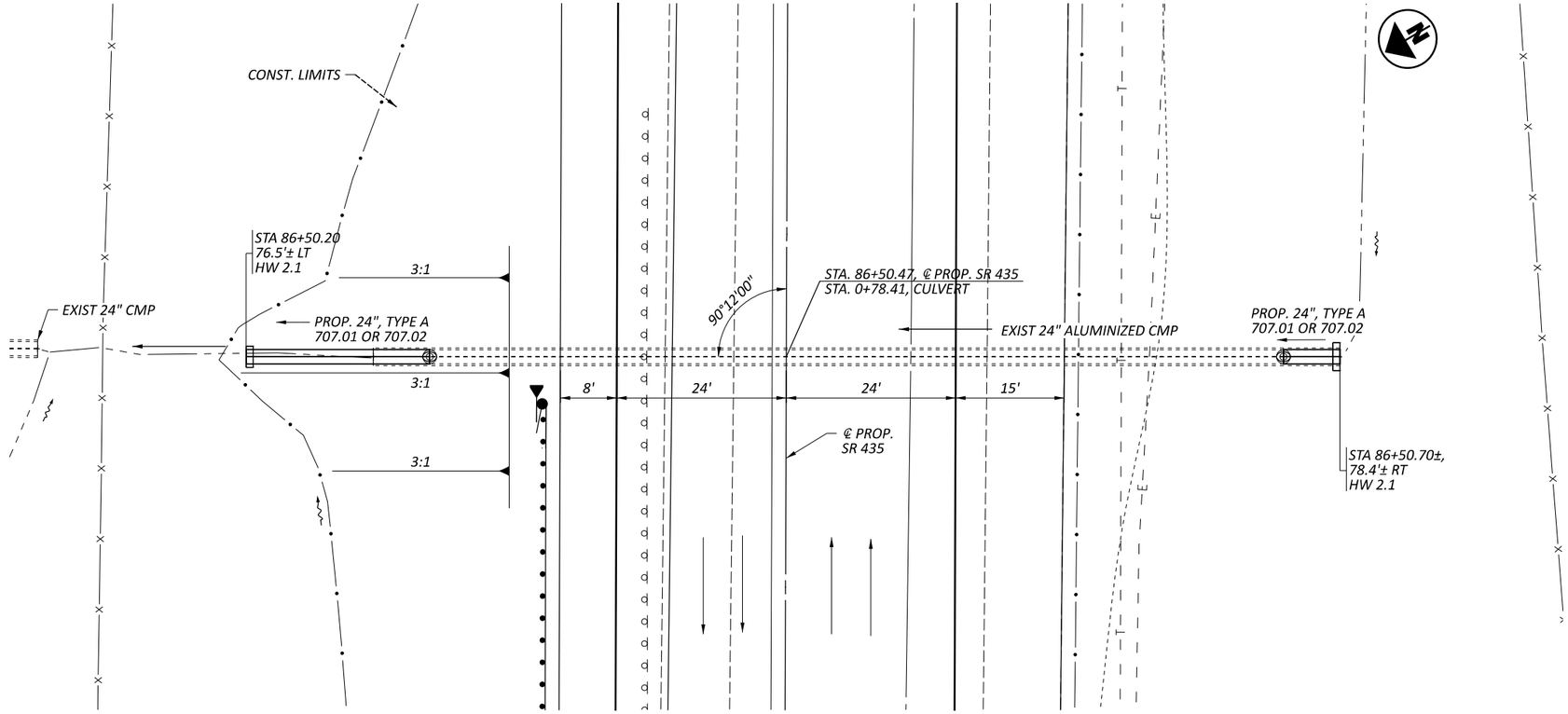
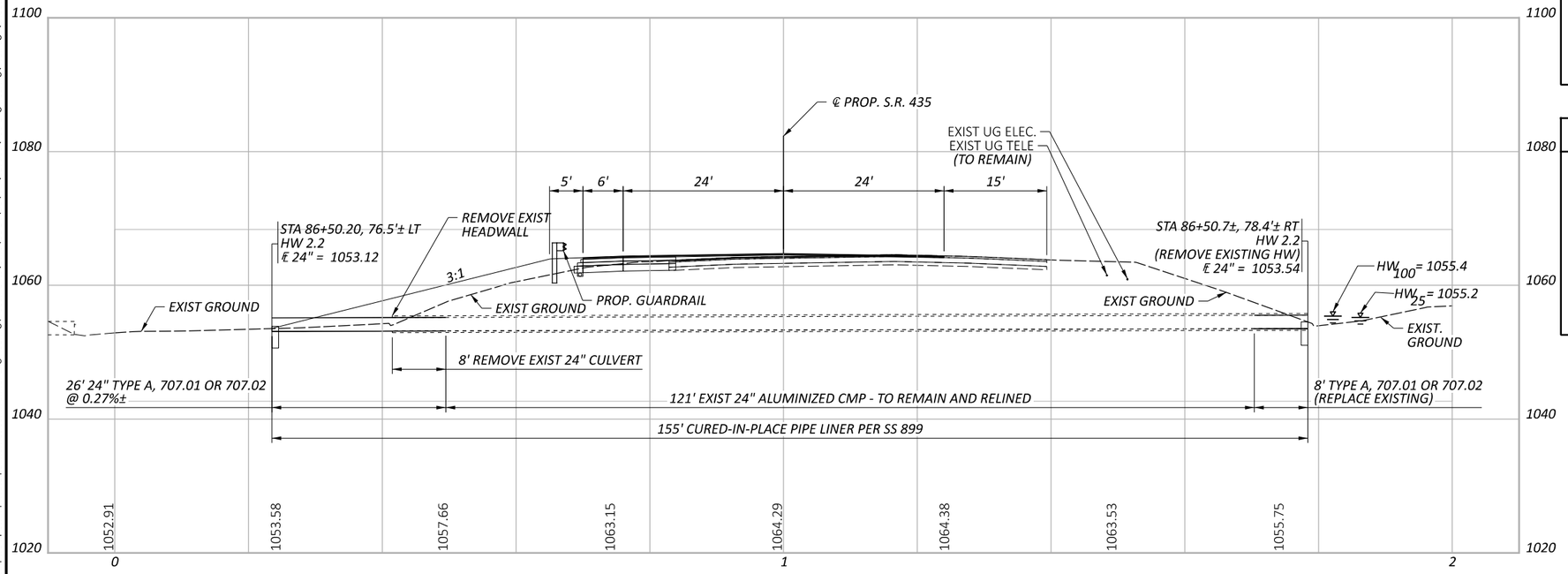
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER
DPF
REVIEWER
DCJ 05/10/24
PROJECT ID
117955
SHEET P. 217 TOTAL 246





HYDRAULIC DATA

DRAINAGE AREA = 4 ACRES

Q (25) =	10.1 CFS	V (25) =	5.5 FT/S	HW (25) =	1055.2 FT
Q (100) =	11.9 CFS	V (100) =	5.8 FT/S	HW (100) =	1055.4 FT

ORDINARY HIGH WATER MARK: N/A

DESIGN SERVICE LIFE: 75 YEARS

ABRASION LEVEL: 2

pH: 7.5

EXISTING CULVERT

TYPE: ALUMINIZED CMP

SIZE: 24"

SKEW: 90°12'00" L.F.

ALIGNMENT: TANGENT

DATE BUILT: 2001

CONDITION: 7

CFN: 1876628

PROPOSED CULVERT

TYPE: EXIST. 24" ALUMINZED CMP RELINED, WITH 24" TYPE A EXTENSION/REPLACEMENT (707.01 OR 707.02)

SKEW: 90°12'00" L.F.

ALIGNMENT: TANGENT

CFN: 1876628

HORIZONTAL SCALE IN FEET
0 5 10 20

CULVERT PLAN AND PROFILE - FAY-435-2.487
EXIST 24" ALUMINIZED CMP - EXTEND AND RELINE

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF

REVIEWER DCJ 05/10/24

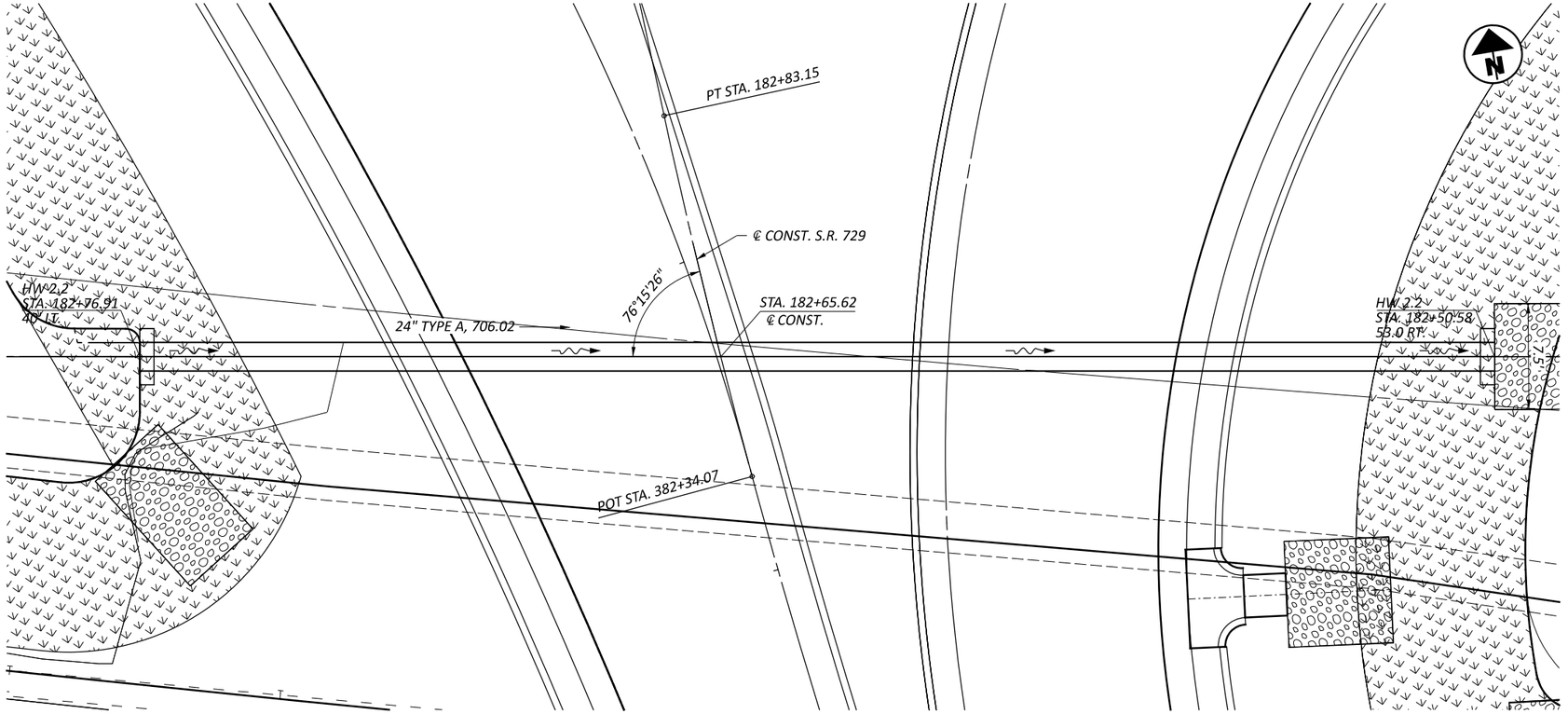
PROJECT ID 117955

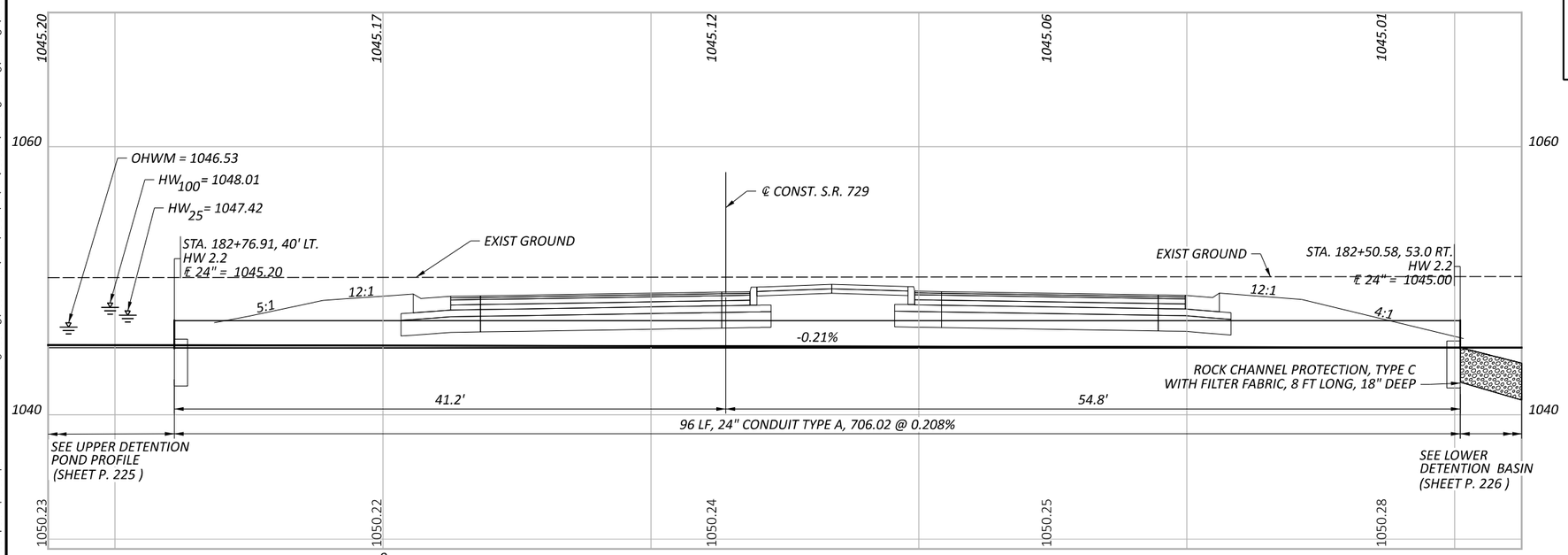
SUBSET 0 | TOTAL 0

SHEET P. 218 | TOTAL 246

FAY-435-1.52

MODEL: Plan1 - 24in CMP Reline and Extend [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:42:52 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\Drainage\Sheets\BU-5\117955_DC001.dgn





HYDRAULIC DATA

DRAINAGE AREA = 25.89 ACRES

Q (25) = 18.06 CFS	V (25) = 7.00 FT/S	HW (25) = 1047.42 FT
Q (100) = 21.75 CFS	V (100) = 7.70 FT/S	HW (100) = 1048.01 FT

ORDINARY HIGH WATER MARK: 1046.53 FT

DESIGN SERVICE LIFE: 75 YEARS

ABRASION LEVEL: NON-ABRASIVE

pH: 7.5

PROPOSED CULVERT

TYPE: 24" CULVERT

SKEW: 76° 15' 26" L.F.

ALIGNMENT: 10° 59' 50" CURVE TO LT (℄ PROP SR 729)

CFN: T.B.D.

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CULVERT PLAN AND PROFILE
SR 729 - PROPOSED 24" CULVERT

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF

REVIEWER DCJ 05/10/24

PROJECT ID 117955

SUBSET 0 | TOTAL 0

SHEET P. 219 | TOTAL 246

FAY-435-1.52

MODEL: Plan 5 - Prop 24in Culvert SR 729 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/30/2024 TIME: 11:21:19 AM USER: dan-f
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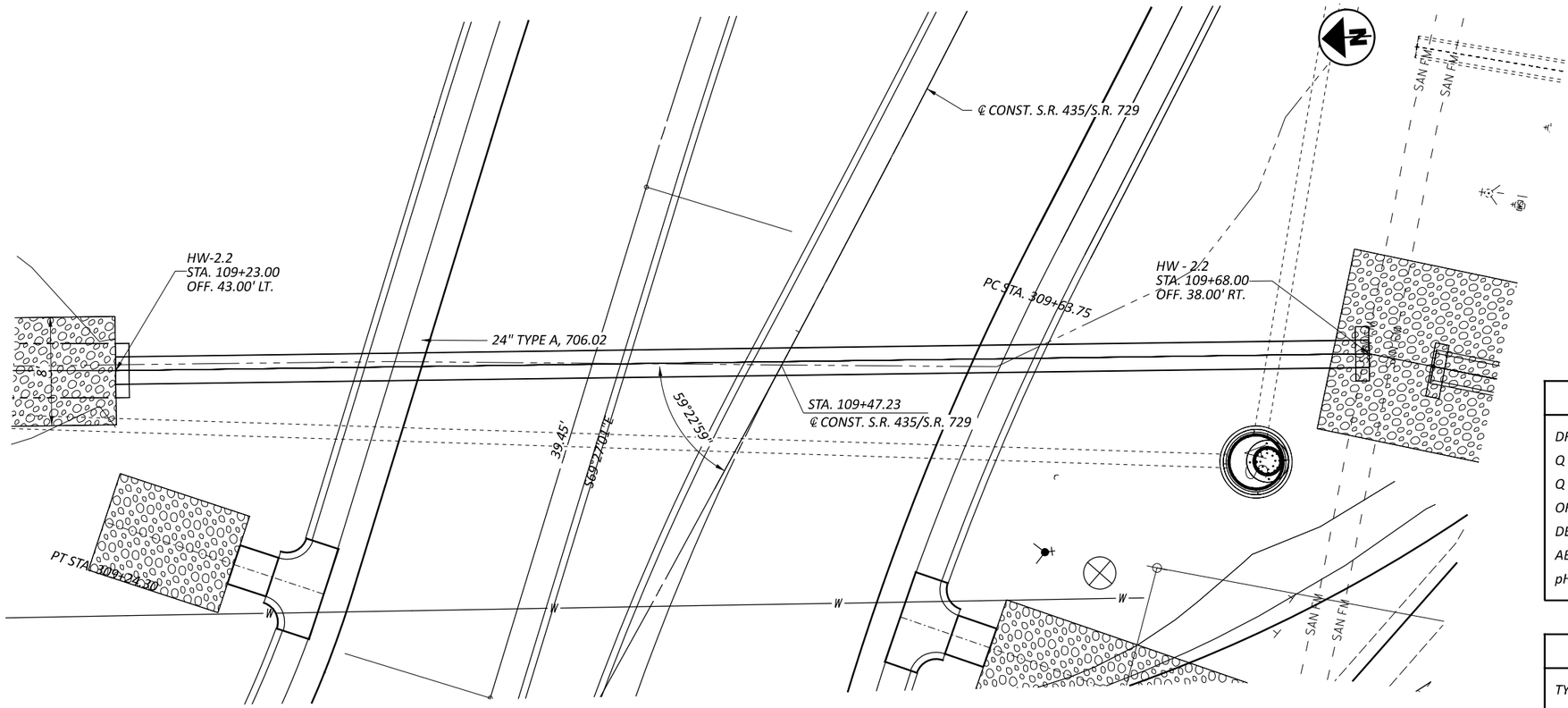

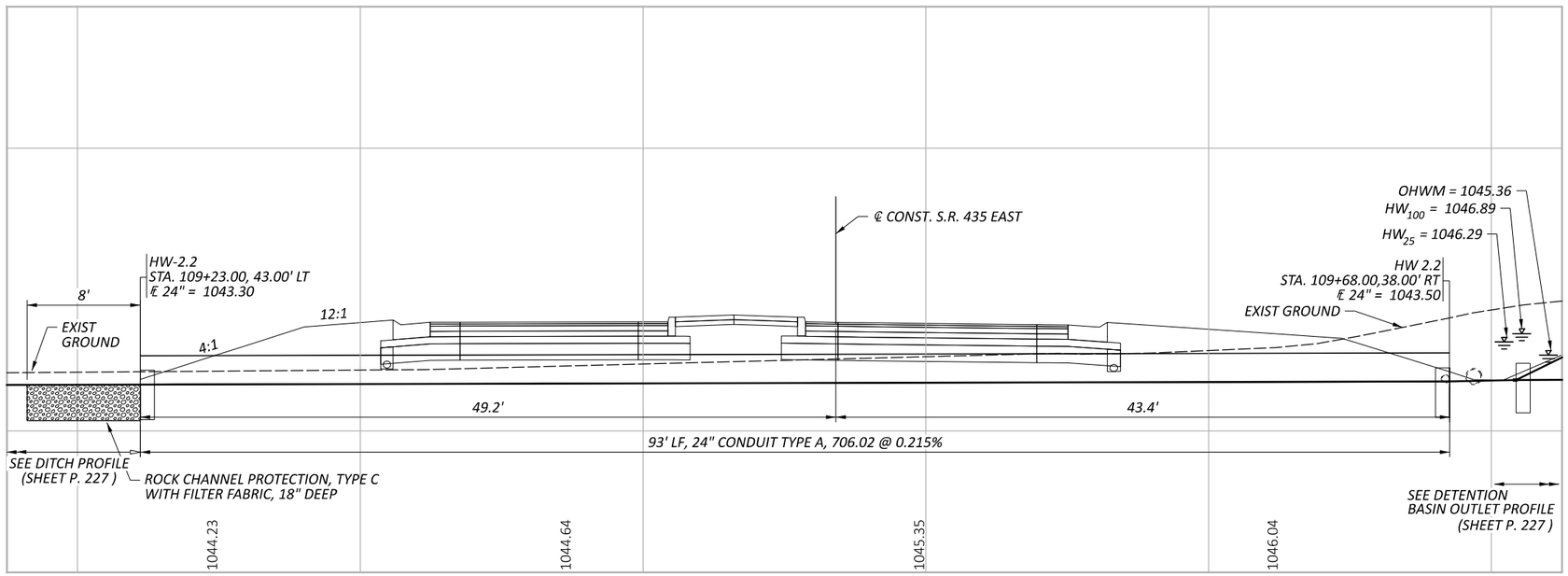

HYDRAULIC DATA

DRAINAGE AREA = 27 ACRES

Q (25) = 18.67 CFS	V (25) = 7.12 FT/S	HW (25) = 1046.29 FT
Q (100) = 22.43 CFS	V (100) = 7.93 FT/S	HW (100) = 1046.89 FT

ORDINARY HIGH WATER MARK: 1045.36 FT
DESIGN SERVICE LIFE: 75 YEARS
ABRASION LEVEL: NON-ABRASIVE
pH: 7.5

PROPOSED CULVERT

TYPE: 24" TYPE A, 706.02

SKEW: 61° 10' 07" L.R.
ALIGNMENT: 3° 30' 00" CURVE TO RT (℄ PROP SR 435 EAST)
CFN: T.B.D.

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CULVERT PLAN AND PROFILE
SR 435 EAST - PROPOSED 24" CULVERT

FAY-435-1.52

MODEL: Plan 6 - Prop 24in Culvert SR 435 East [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/30/2024 TIME: 11:27:42 AM USER: dan-f
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DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SUBSET 0 | TOTAL 0
SHEET P. 220 | TOTAL 246

MODEL: Plan3 - 24in RCP SR435 Tmp Xtn [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:42:57 PM USER: dan-f
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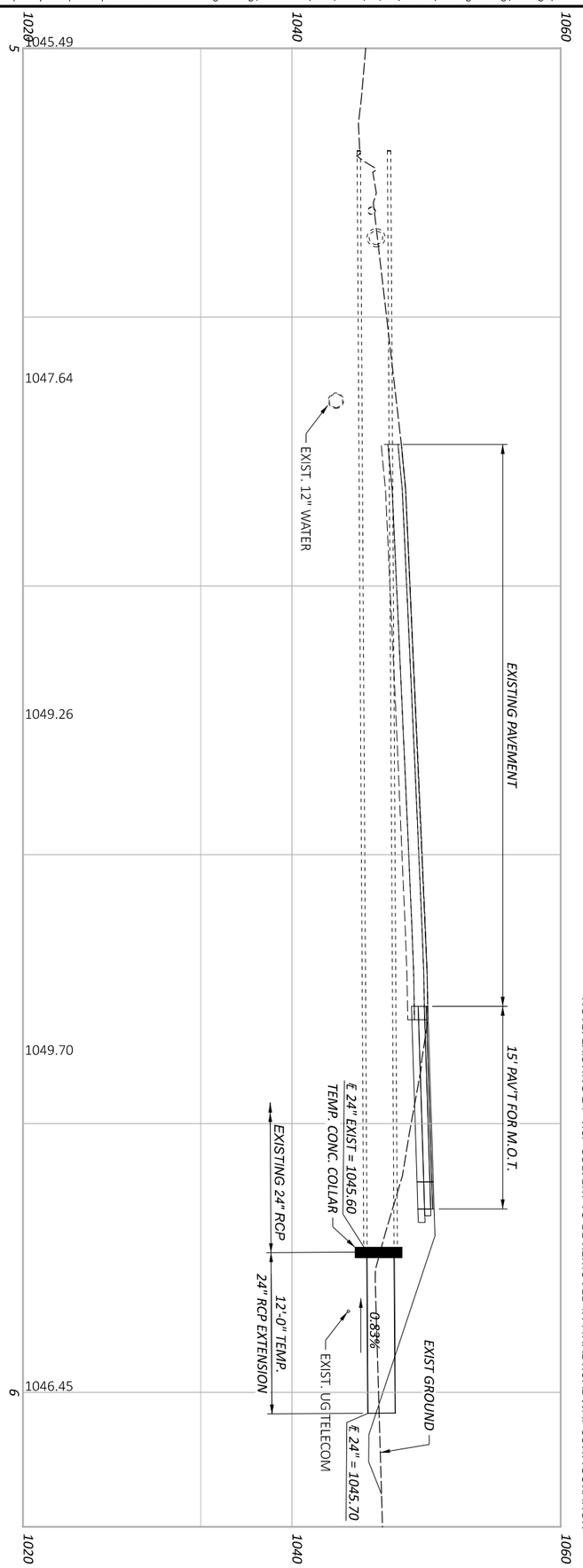
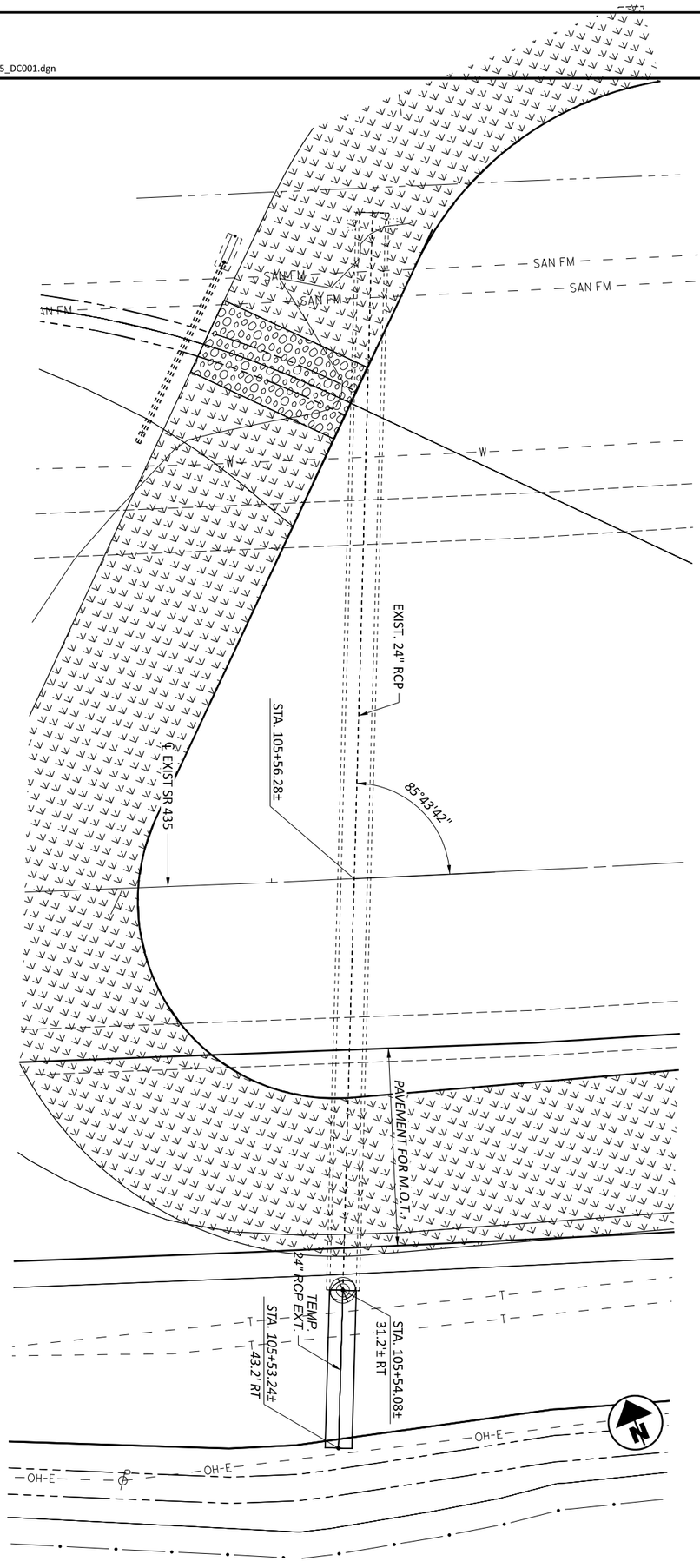


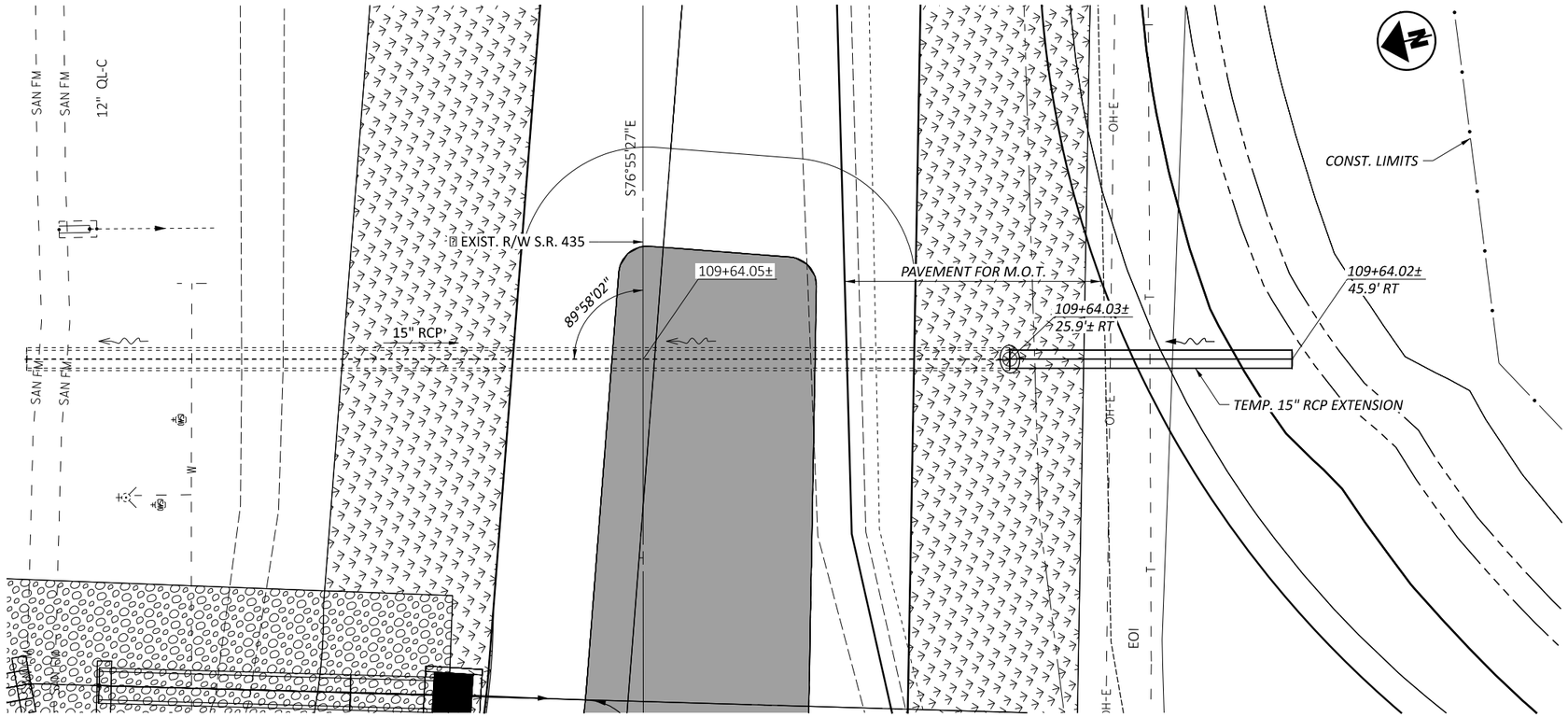


CULVERT PLAN AND PROFILE - SR 435 EXIST STA. 105+56.28
EXIST 24" RCP - TEMPORARY EXTENSION

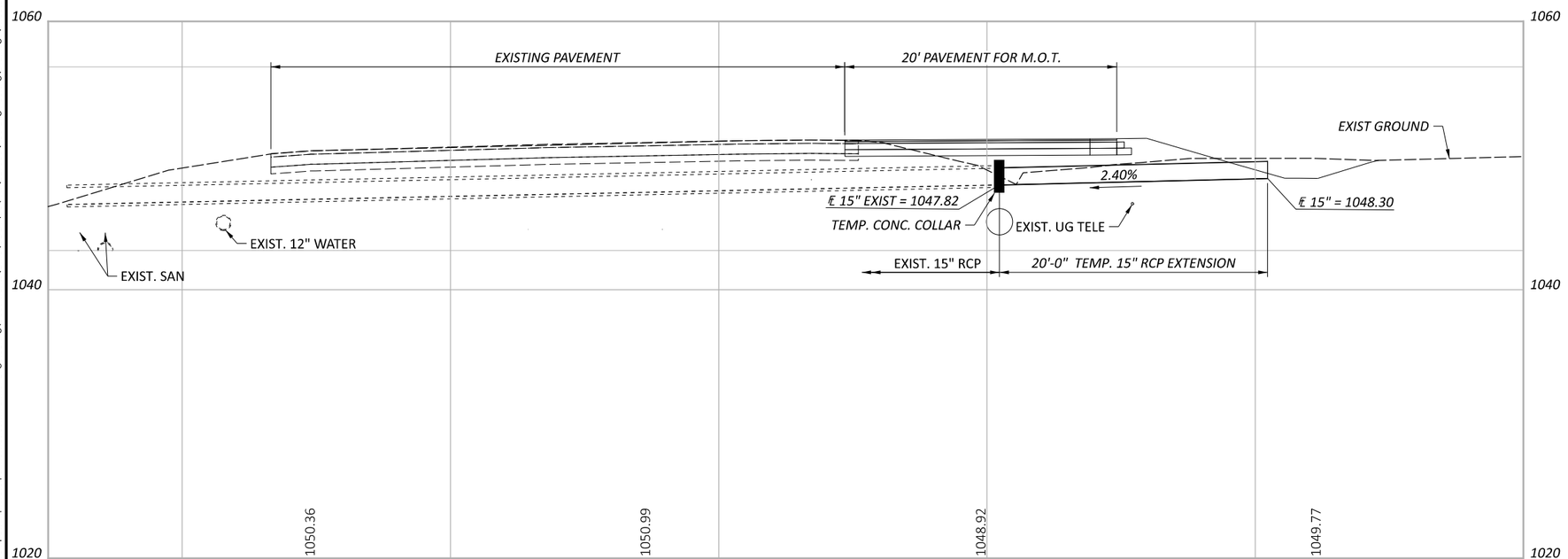
HORIZONTAL SCALE IN FEET
0 5
2.5 10

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI, OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SUBSET 0 TOTAL 0
SHEET P. 221 TOTAL 246



NOTE: EXISTING 15" RCP CULVERT TO BE REMOVED IN FINAL ROADWAY CONFIGURATION



1

FAY-435-1.52

MODEL: CLX_15in_RCP_TEMPlan4 - 15in RCP SR435 Tmp Xtn PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:42:58 PM USER: dan-f
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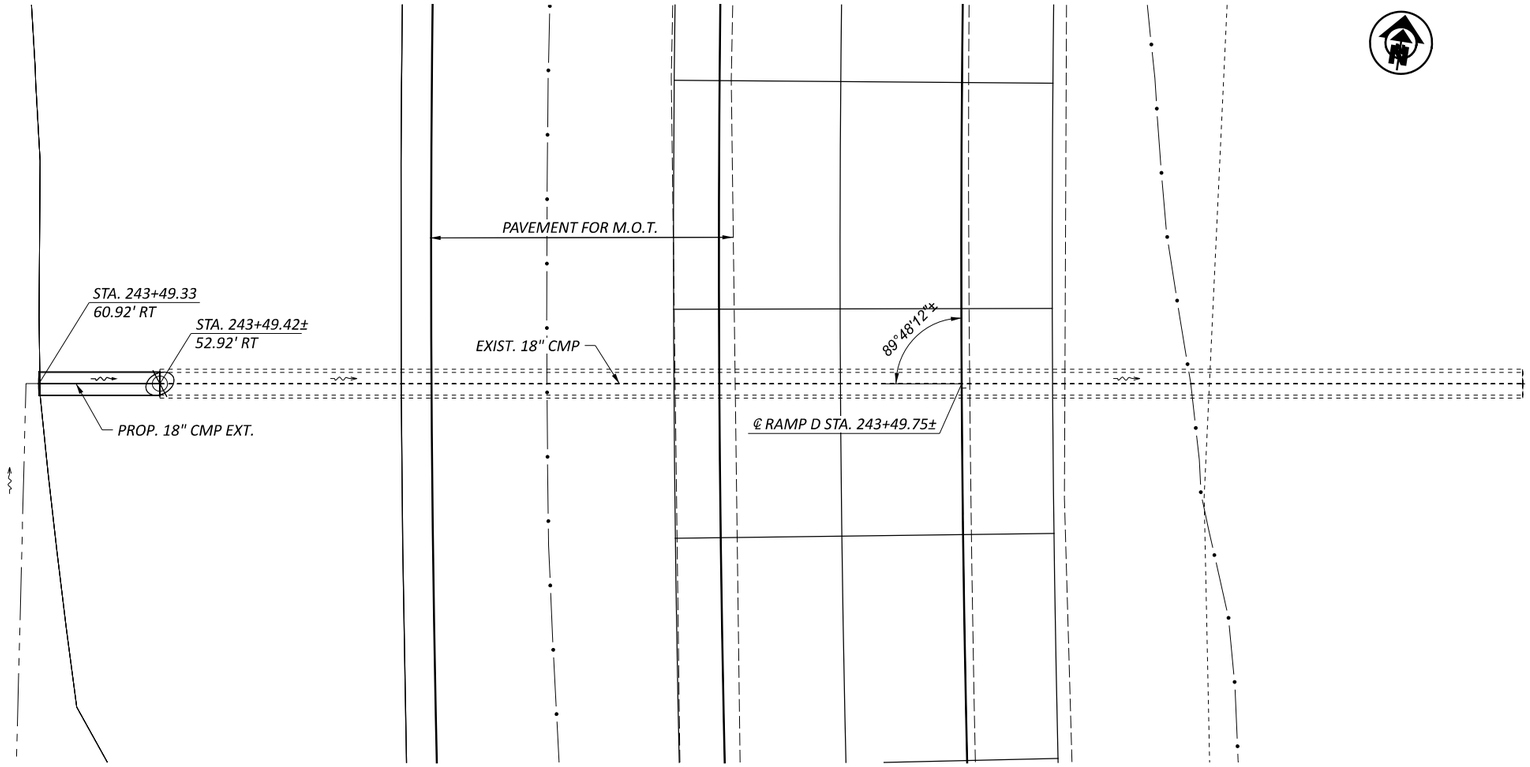
HORIZONTAL SCALE IN FEET
0 2.5 5 10

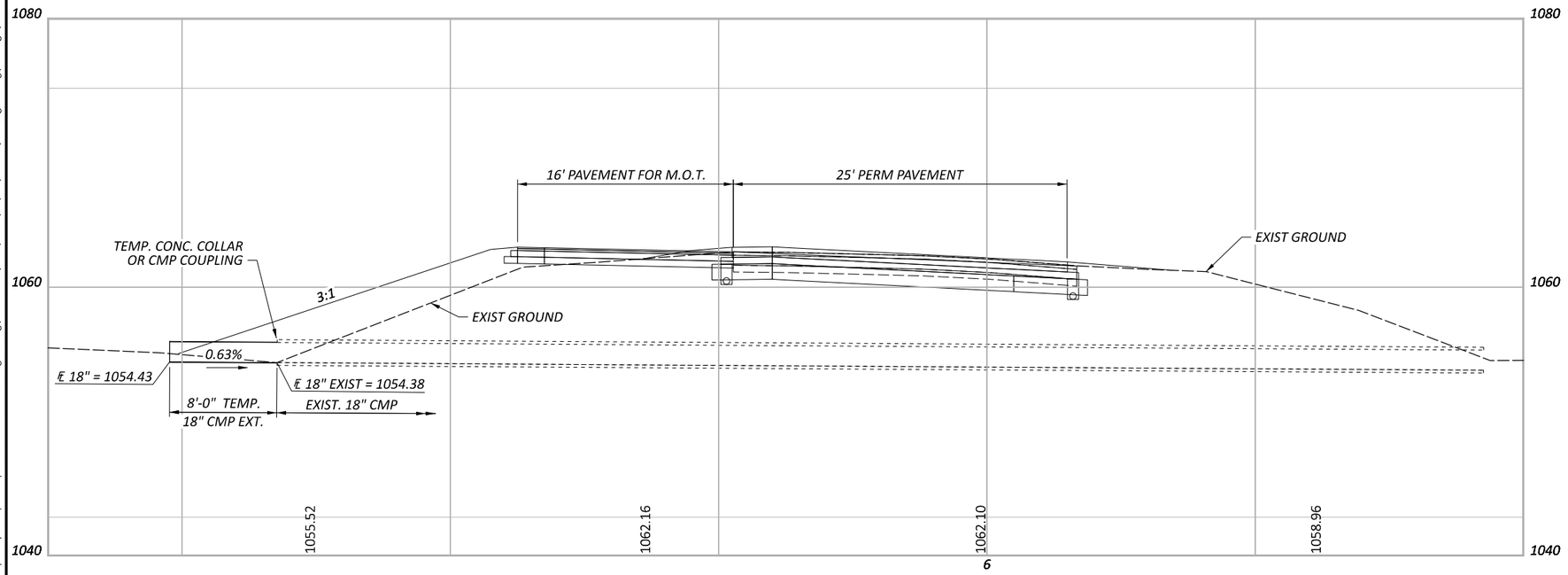
CULVERT PLAN AND PROFILE - SR 435 EXIST STA. 109+64.05
EXIST 15" RCP - TEMPORARY EXTENSION

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SUBSET: 0 TOTAL: 0
SHEET: P. 222 TOTAL: 246



NOTE:
EXISTING 18" CMP CULVERT TO REMAIN, REMOVE TEMPORARY EXTENSION AND CONSTRUCT NEW HEADWALL PER SCD HW-2.2 ON INLET END



6

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CULVERT PLAN AND PROFILE - RAMP D PROP STA.243+49.75
EXIST 18" CMP - TEMPORARY EXTENSION

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SUBSET: 0 TOTAL: 0
SHEET: P. 223 TOTAL: 246

FAY-435-1.52

MODEL: Plan2 - 18in CMP Ramp D Tmp Xtn [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:42:59 PM USER: dan-f
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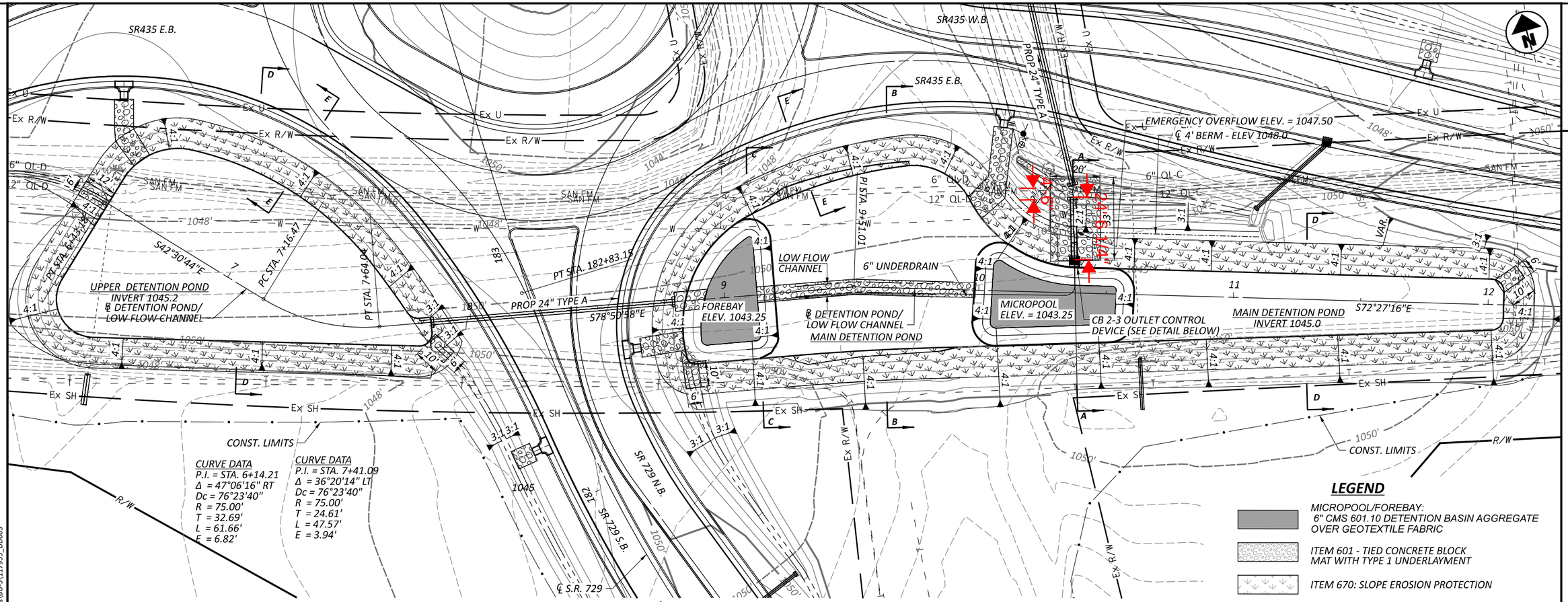
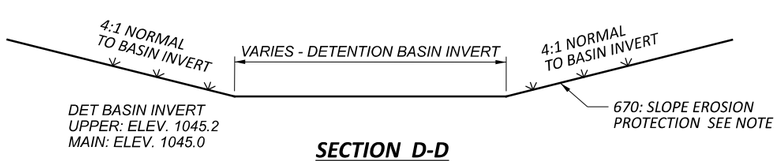


DETENTION POND PLAN

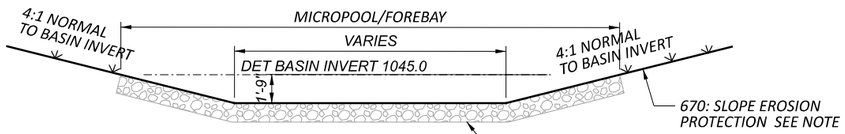
FOR SECTION A-A/PROFILE DETENTION BASIN OUTLET, SEE SHEET P. 227
FOR PROFILE ALONG ℄ PROP DETENTION BASIN/LOW FLOW CHANNEL SEE SHEETS P. 225 - P. 226

LEGEND

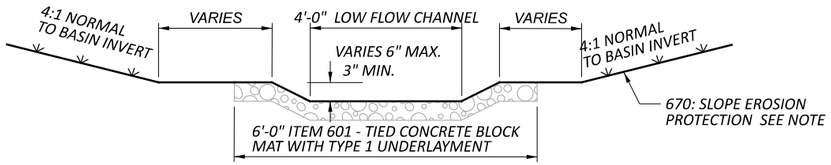
- MICROPOOL/FOREBAY: 6" CMS 601.10 DETENTION BASIN AGGREGATE OVER GEOTEXTILE FABRIC
- ITEM 601 - TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT
- ITEM 670: SLOPE EROSION PROTECTION



SECTION D-D
NOT TO SCALE

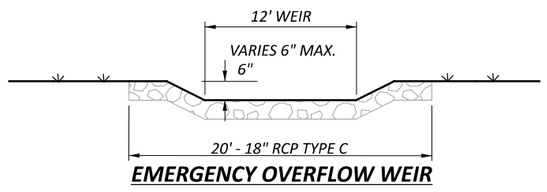


SECTION C-C
NOT TO SCALE

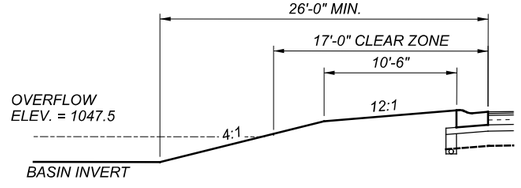


SECTION B-B
NOT TO SCALE

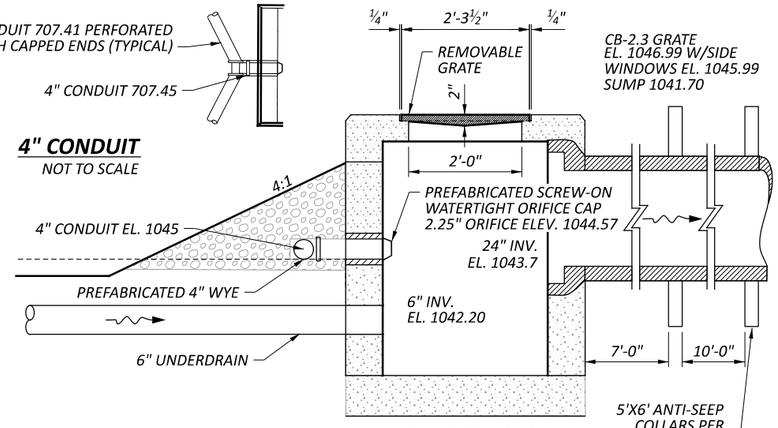
NOTE: ITEM 670 SLOPE EROSION PROTECTION EXTEND UP TO ELEV: 1048.00



EMERGENCY OVERFLOW WEIR

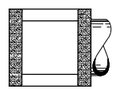


SECTION E-E
GRADING DETAIL ALONG ROADWAYS
NOT TO SCALE



4" CONDUIT
NOT TO SCALE

DETENTION O.C.D.
NOT TO SCALE
DETAIL PROVIDED TO SHOW ELEVATIONS
PROVIDE COMPONENTS AND INSTALL PER SCD WQ-1.1



CB-2.3 FRAME
NOT TO SCALE
ORIENT SIDE WIINDOWS AS SHOWN

DRAINAGE DETAILS
DETENTION POND

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER: DPF
REVIEWER: DCJ 05/10/24
PROJECT ID: 117955
SHEET: P. 224 | TOTAL: 246

FAY-435-1.52

MODEL: BLP_DET_DITCH_CULVERT - DetentionPond [Sheet] PAPERSIZE: 17x11 (in.) DATE: 6/11/2024 TIME: 4:02:35 PM USER: dennis-j
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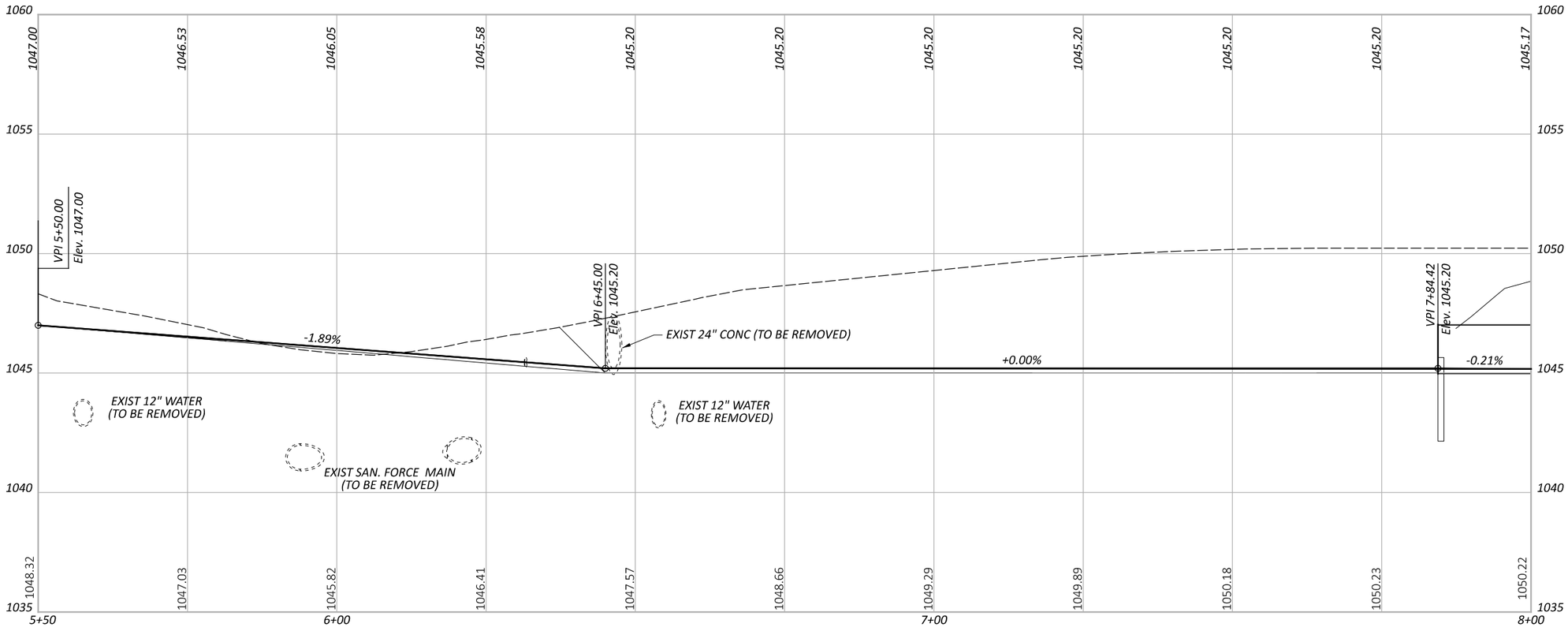


UPPER DETENTION POND PROFILE
STA. 5+50.00 - STA. 7+44.82

FAY-435-1.52

MODEL: BL_P_DTCH - Profile_DrivePipe [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:43:26 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\Drainage\Sheets\BU-5\117955_DF001.dgn

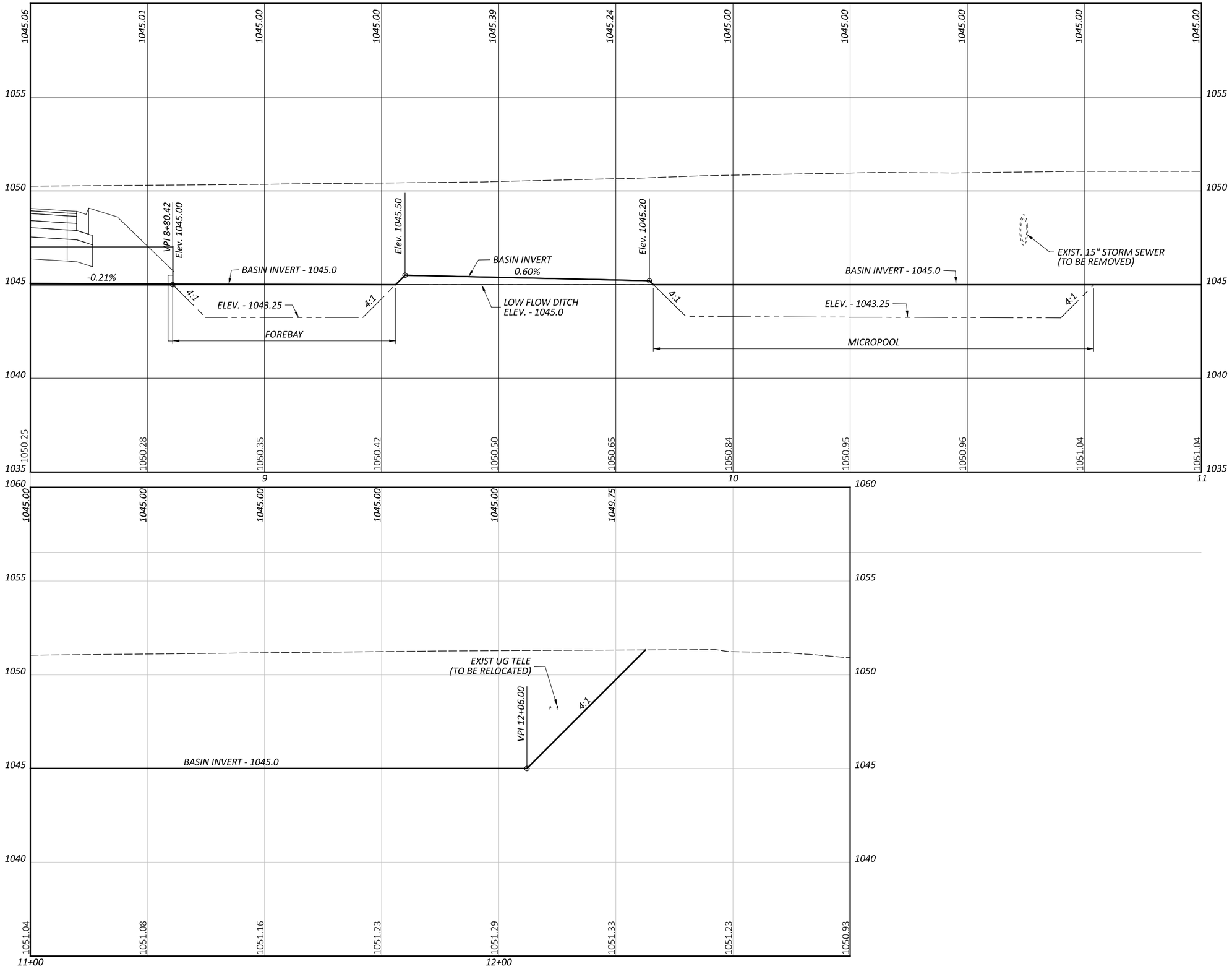
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER
DPF

REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 225 | TOTAL 246



FAY-435-1.52

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pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\Drainage\Sheets\BU-5\117955_DF001.dgn

MAIN DETENTION POND PROFILE
STA. 8+50.00 - STA. 12+06.00

DESIGN AGENCY

Palmer ENGINEERING

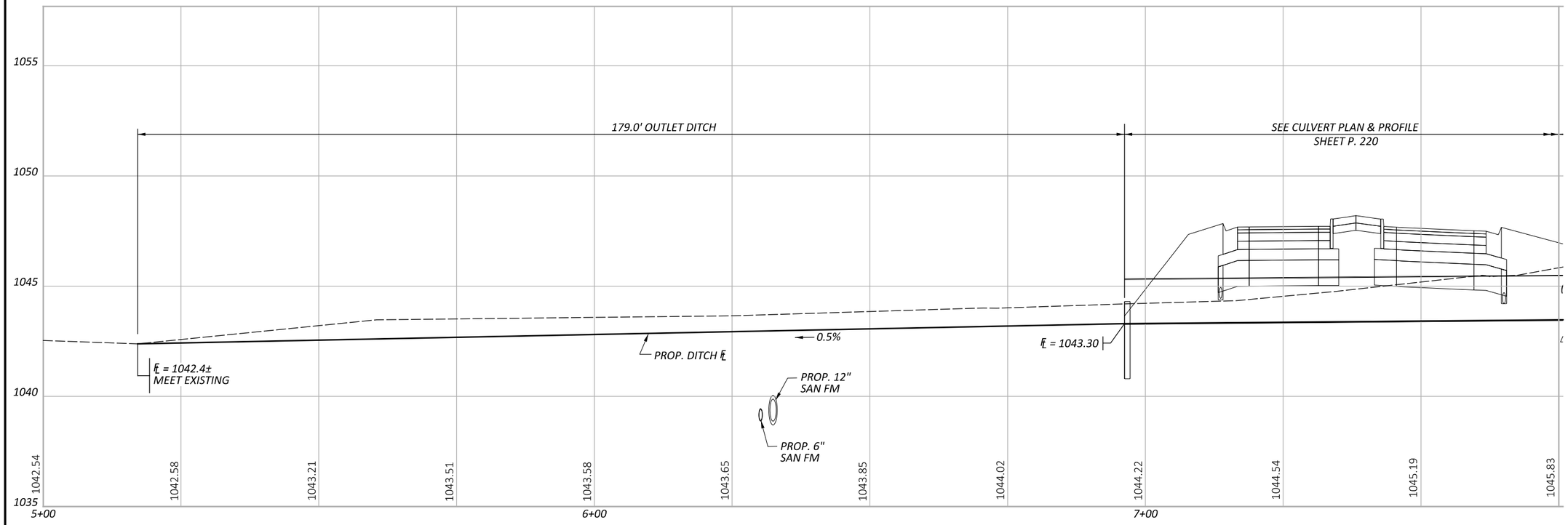
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER
DPF

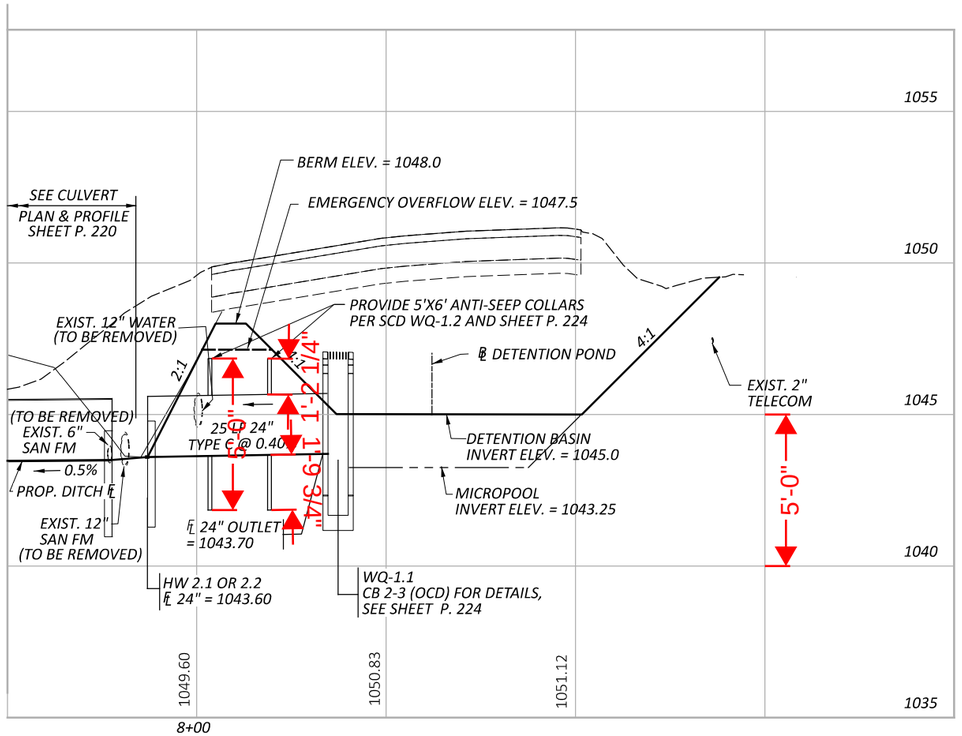
REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 226 | TOTAL 246



OUTLET DITCH - SR 729 STA. 109+69.48 LT. TO BLUEGRASS STA. 185+30 ± RT.



PROFILE - DETENTION BASIN OUTLET (SECTION A-A - SHEET P. 224)

DRAINAGE PROFILE
DETENTION BASIN OUTLET

FAY-435-1.52

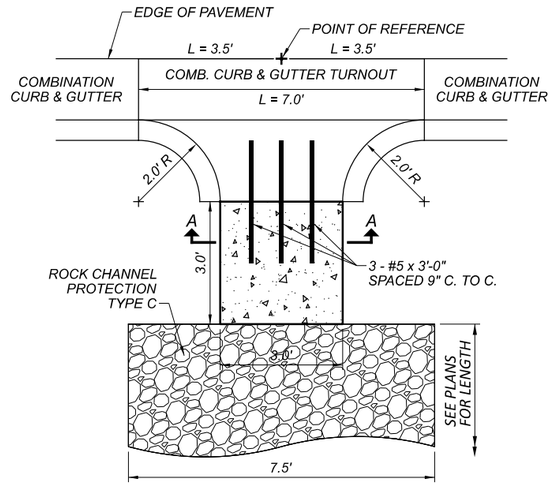
MODEL: ProfileRun -Sheet 1 PAPERSIZE: 17x11 (in.) DATE: 6/11/2024 TIME: 4:04:25 PM USER: dennis-j
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\Drainage\Sheets\BU-5\117955_DD0001.dgn

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

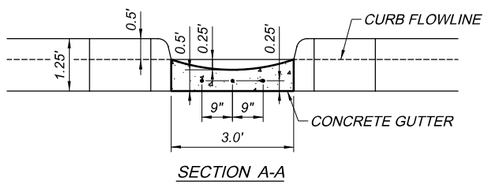
DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P. 227 TOTAL 246

ITEM 609 - CURB MISC.: COMBINATION CURB AND GUTTER TURNOUT

THIS ITEM SHALL BE CONSTRUCTED AS PER DETAILS SHOWN BELOW. THE ROCK CHANNEL PROTECTION SHALL EXTEND TO THE DITCH BOTTOM. WHEN THE TURNOUT IS AT THE END OF THE CURB AND GUTTER LINE, CONSTRUCT 2.0' RADIUS AND 3.0' CONCRETE GUTTER WHILE OMITTING THE 2.0' RADIUS ON THE PAVED SHOULDER SIDE. ALL LABOR, MATERIALS, AND INCIDENTALS NECESSARY TO CONSTRUCT A COMPLETE TURNOUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 609 - CURB MISC.: COMBINATION CURB AND GUTTER TURNOUT.



PLAN VIEW



SECTION A-A

DRAINAGE DETAILS

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER
DPF

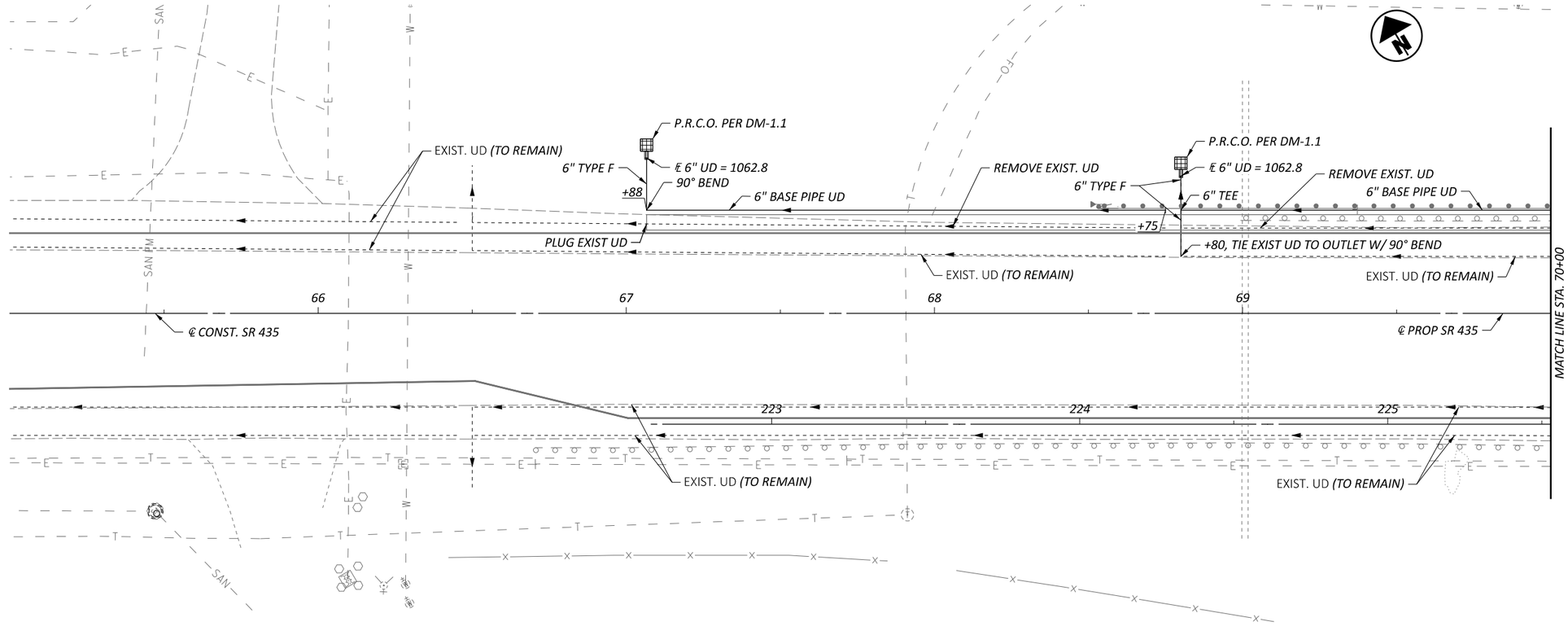
REVIEWER
DCJ 05/10/24

PROJECT ID
117955

SHEET P. 228 | TOTAL 246

FAY-435-1.52

MODEL: Sheet_Surv1 PAPERSIZE: 17x11 (in.) DATE: 5/30/2024 TIME: 7:24:32 AM USER: dan-f
pw:\\pewinpw04_pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\Drainage\Sheets\BU-5\117955_DD002.dgn



HORIZONTAL SCALE IN FEET
0 10 20 40

UNDERDRAIN PLAN - S.R. 435
STA. 65+00.00 TO STA. 75+00.00

FAY-435-1.52

MODEL: CLP_SR435_01 - Plan 1 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:44:00 PM USER: dan-f
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D6\FAY\117955\400-Engineering\Drainage\Sheets\BU-51\117955_DM001.dgn

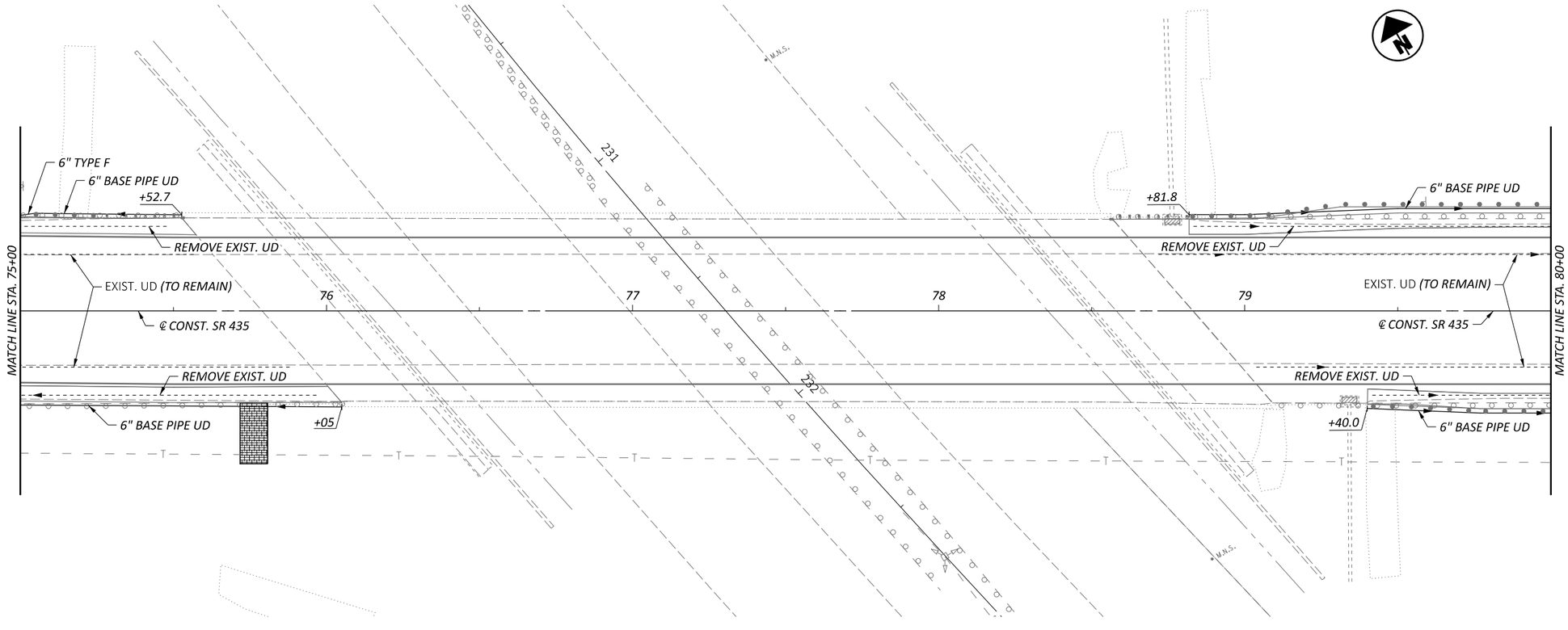
DESIGN AGENCY
Palmer ENGINEERING
8350 EAST KEMPER ROAD
SUITE B
CINCINNATI, OH 45249
(513) 469-1600

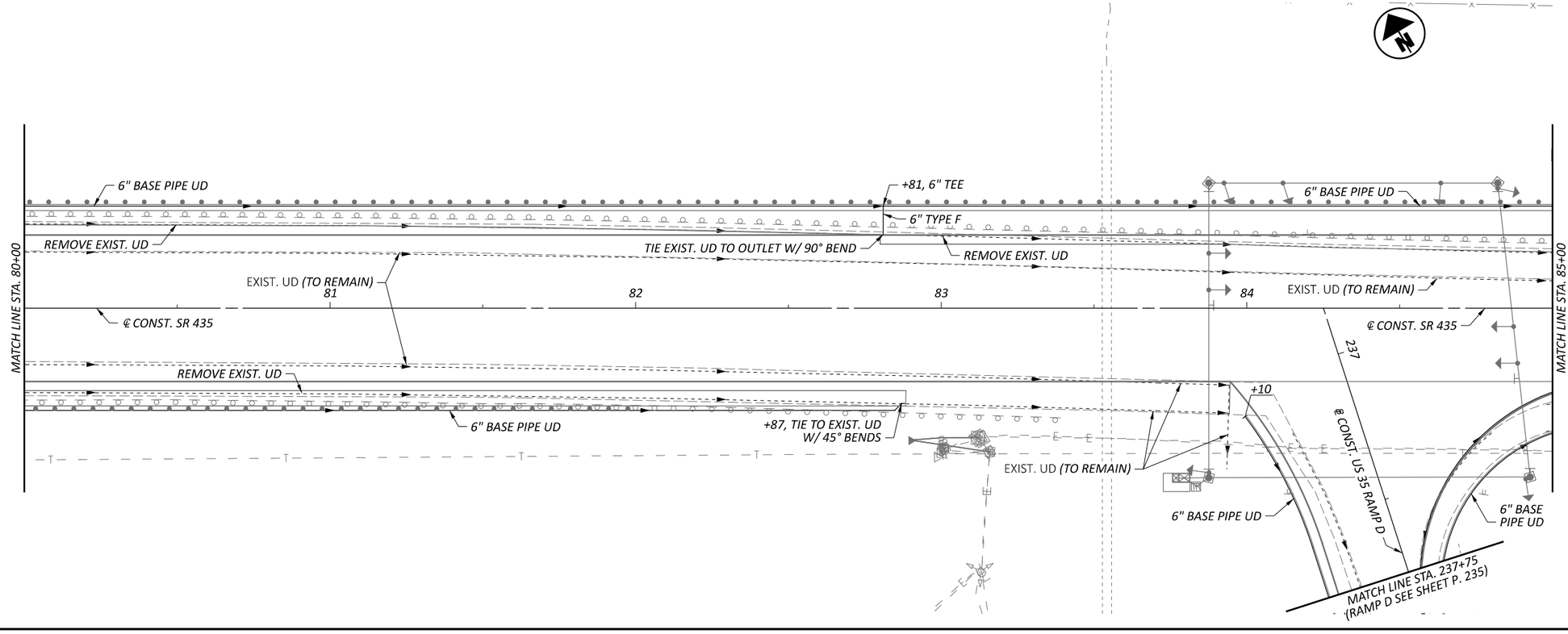
DESIGNER
DAM

REVIEWER
DPF 05/10/24

PROJECT ID
117955

SHEET P. 229 | TOTAL 246





HORIZONTAL SCALE IN FEET
0 10 20 40

UNDERDRAIN PLAN - S.R. 435 STA. 75+00.00 TO STA. 85+00.00

FAY-435-1.52

MODEL: CLP_SR435_01 - Plan 3 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:44:01 PM USER: dan-f
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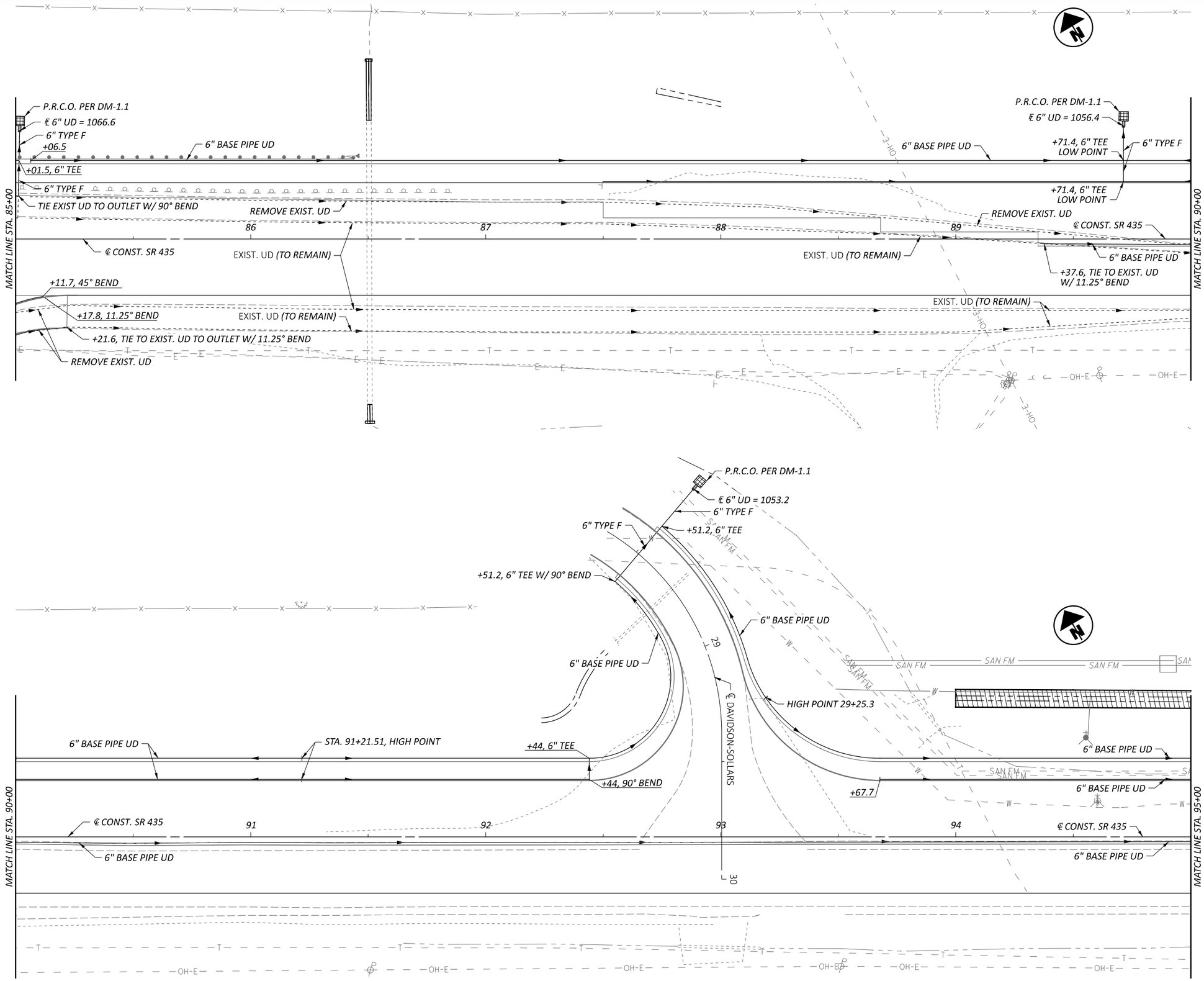
DESIGN AGENCY
Palmer ENGINEERING
8350 EAST KEMPER ROAD
SUITE B
CINCINNATI, OH 45249
(513) 469-1600

DESIGNER DAM
REVIEWER DPF 05/10/24
PROJECT ID 117955
SHEET P. 230 TOTAL 246



HORIZONTAL SCALE IN FEET
0 10 20 40

UNDERDRAIN PLAN - S.R. 435
STA. 85+00.00 TO STA. 95+00.00

DESIGN AGENCY
Palmer ENGINEERING
8350 EAST KEMPER ROAD
SUITE B
CINCINNATI, OH 45249
(513) 469-1600

DESIGNER DAM
REVIEWER DPF 05/10/24
PROJECT ID 117955
SHEET P. 231 TOTAL 246

FAY-435-1.52

MODEL: CLP_SR435_01 - Plan 5 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:44:05 PM USER: dan-f
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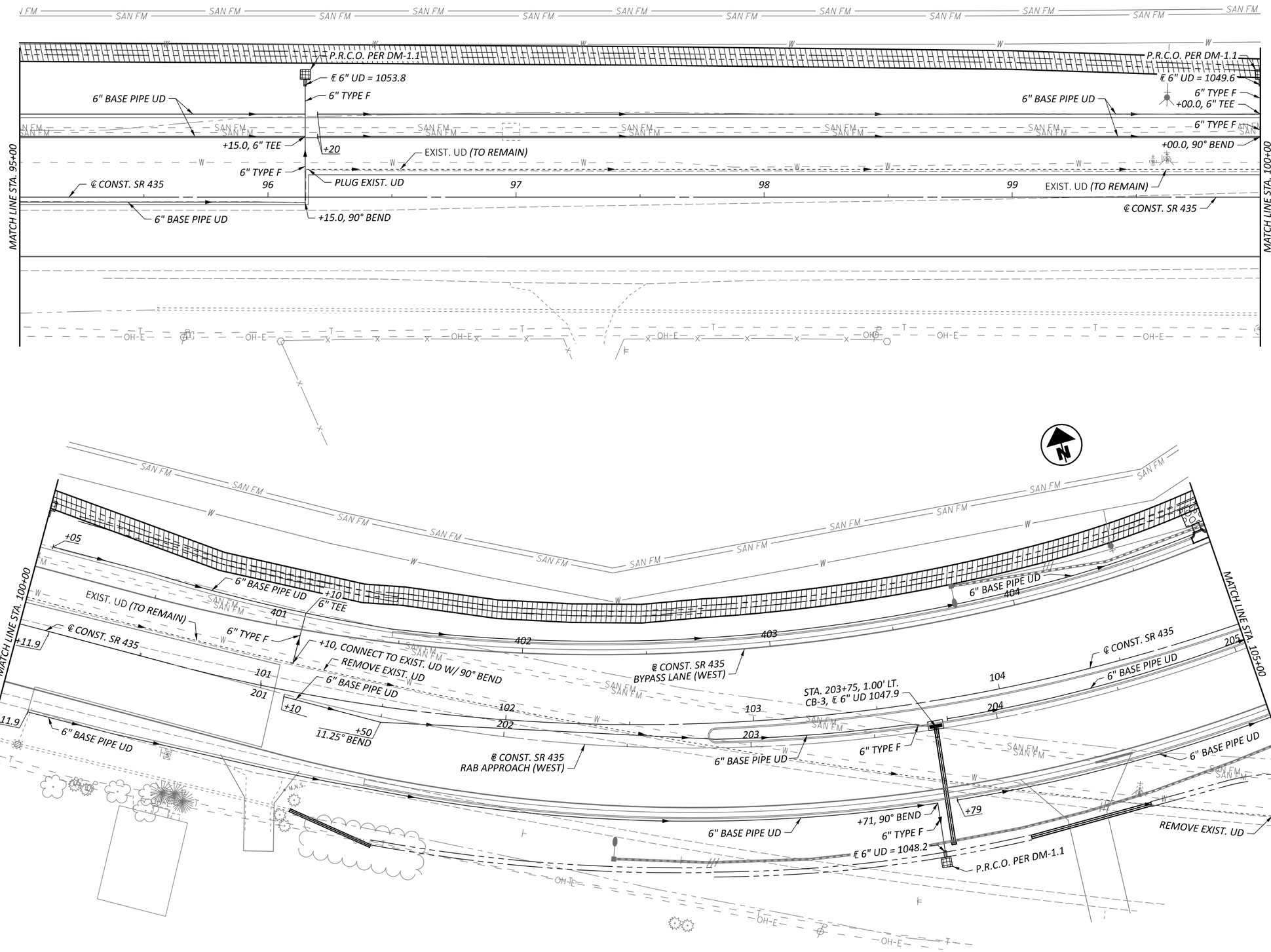

HORIZONTAL SCALE IN FEET
0 10 20 40

UNDERDRAIN PLAN - S.R. 435
STA. 95+00.00 TO STA. 105+00.00

DESIGN AGENCY
Palmer ENGINEERING
8350 EAST KEMPER ROAD
SUITE B
CINCINNATI, OH 45249
(513) 469-1600

DESIGNER DAM
REVIEWER DPF 05/10/24
PROJECT ID 117955
SHEET P. 232 | TOTAL 246

FAY-435-1.52

MODEL: CLP_SR435_01 - Plan 7 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:44:06 PM USER: dan-f
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FAY-435-1.52

MODEL: RAB - Plan 9 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:44:10 PM USER: dan-f
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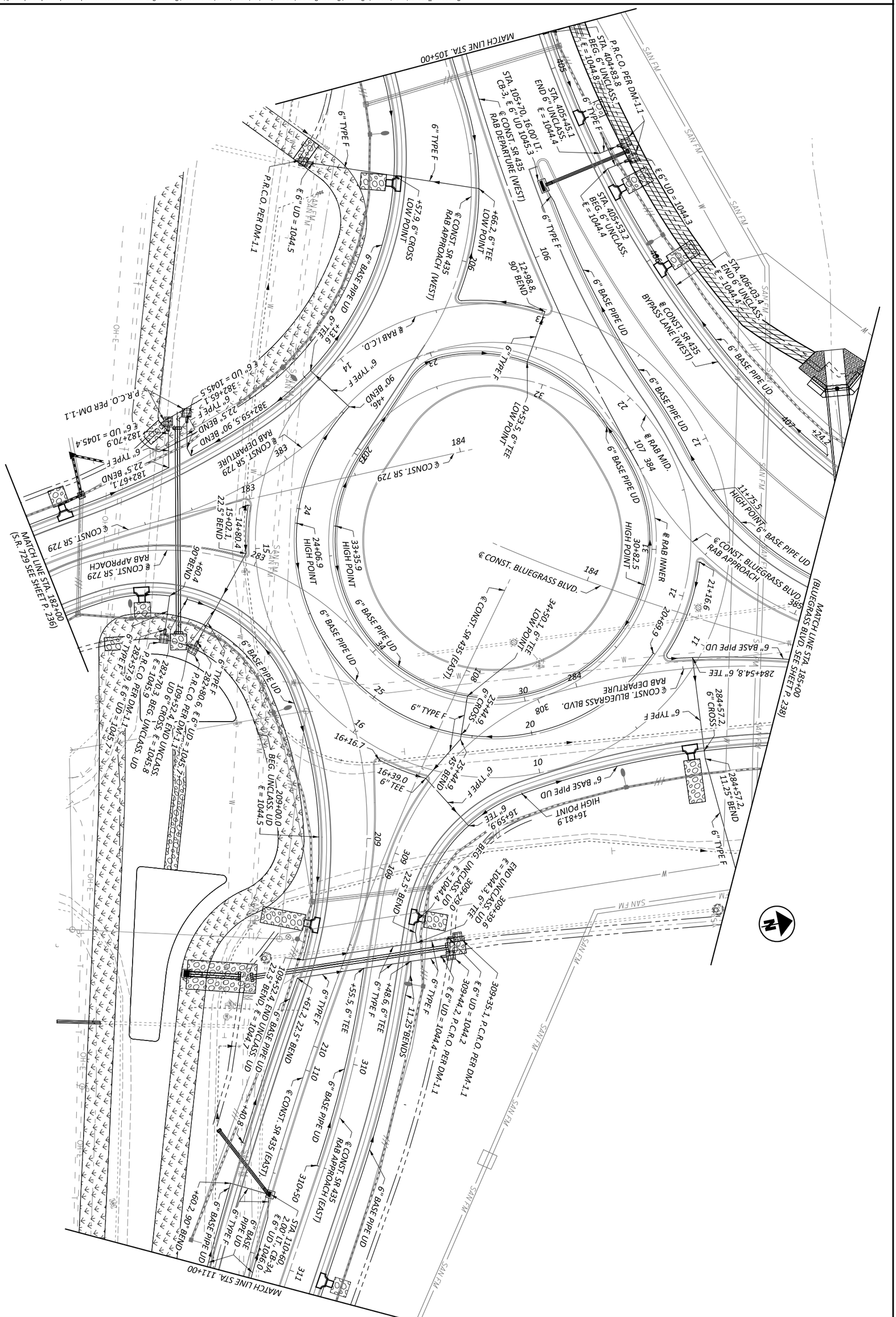
MATCH LINE STA. 105+00
MATCH LINE STA. 111+00
MATCH LINE STA. 182+00 (S.R. 729 SEE SHEET P. 236)
MATCH LINE STA. 185+00 SEE SHEET P. 238 (BLUEGRASS BLVD.)
℄ CONST. SR 435 (EAST)
℄ CONST. SR 729
℄ CONST. BLUEGRASS BLVD.
℄ CONST. SR 435 RAB DEPARTURE
℄ CONST. SR 435 RAB APPROACH (EAST)
℄ CONST. SR 435 RAB APPROACH (WEST)
℄ CONST. SR 435 RAB DEPARTURE (WEST)
℄ CONST. SR 435 BYPASS LANE (WEST)
℄ CONST. BLUEGRASS BLVD. RAB APPROACH
℄ RAB I.C.D.
℄ RAB MID.
℄ RAB INNER
P.R.C.O. PER DM-1.1
6" BASE PIPE UD
6" TYPE F
6" CROSS
6" TEE
6" UD = 1044.5
6" UD = 1044.3
6" UD = 1044.4
STA. 105+70.16.00' LT. CB-3, ℄ 6" UD 1043.3
STA. 405+45.1 END 6" UNCLASS ℄ = 1044.4
STA. 404+83.8 BEG. 6" UNCLASS ℄ = 1044.8
STA. 405+53.2 BEG. 6" UNCLASS. ℄ = 1044.4
STA. 406+03.4 END 6" UNCLASS ℄ = 1044.4
STA. 209+00.0 BEG. UNCLASS. UD ℄ = 1044.5
STA. 309+29.0 END UNCLASS UD ℄ = 1044.4
STA. 309+39.6 ℄ 6" UD = 1042.2
STA. 110+69.2 ℄ 6" UD, CB-34 ℄ 6" UD = 1046.0
+57.9, 6" CROSS LOW POINT
+96.2, 6" TEE LOW POINT
12+88.8 90° BEND
+13.6, 6" TEE
+46, 90° BEND
382+59.5, 90° BEND
382+65.1
182+70.9
182+67.1
22.5° BEND
15+02.1
14+80.4
24+06.9 HIGH POINT
33+35.9 HIGH POINT
0+53.5, 6" TEE LOW POINT
30+82.5 HIGH POINT
34+50.1 6" TEE LOW POINT
25+44.9, 6" CROSS
25+44.9, 45° BEND
16+16.7
16+39.0 6" TEE
16+59.9, 6" TEE
16+81.9 HIGH POINT
11+75.5 HIGH POINT
20+69.9
21+16.9
284+54.8, 6" TEE
284+57.2 6" CROSS
284+57.2 11.25° BEND
282+80.6
282+57.6
282+55.4
22.5° BEND
+61.2, 22.5° BEND
+55.5 6" TEE
+48.6, 6" TEE
11.25° BENDS
309+35.1
+40.8
+09.7
6" BASE PIPE UD
6" TYPE F
6" BASE PIPE UD
6" BASE PIPE UD
6" BASE PIPE UD

MODEL: CLP_SR435_EAST - Plan10 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:44:12 PM USER: dan-f
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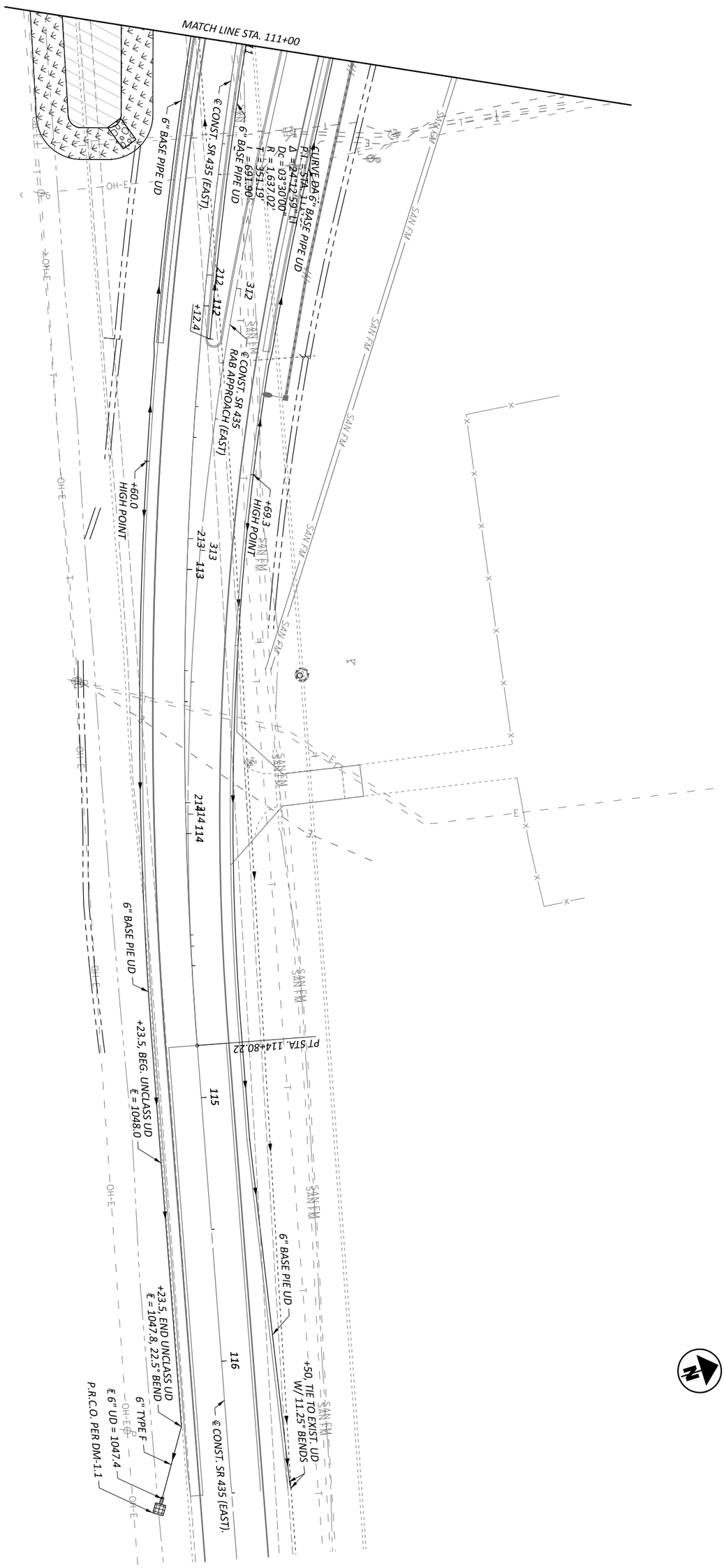
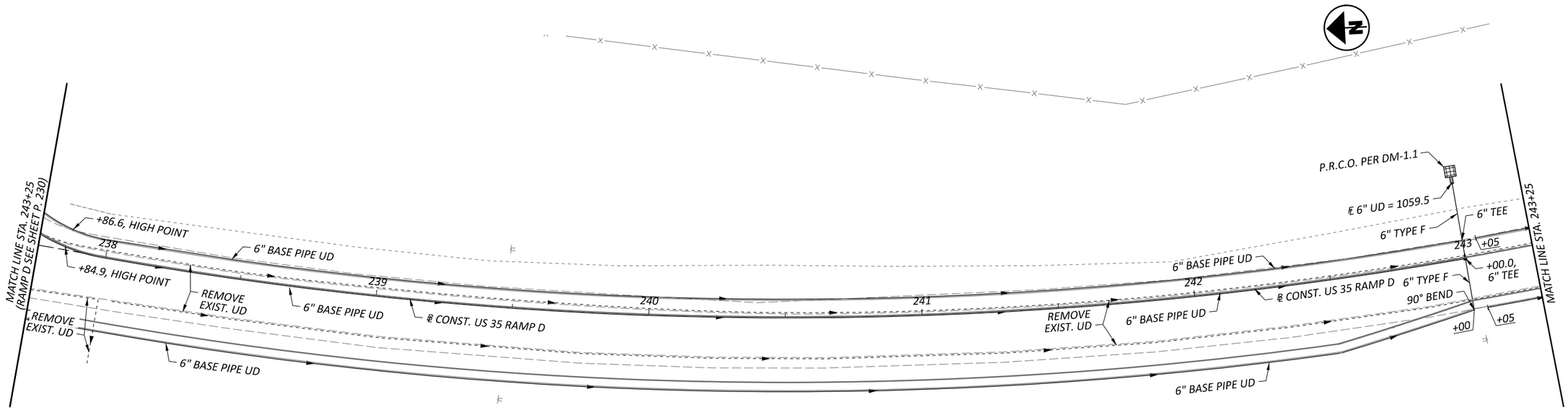


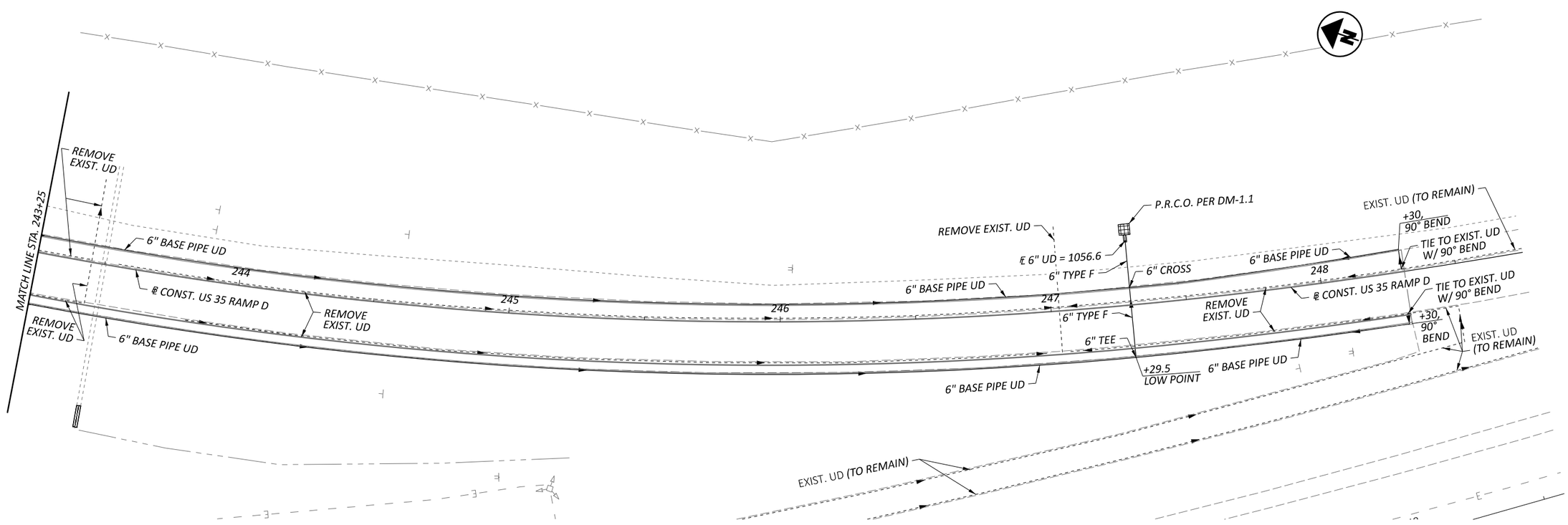
UNDERDRAIN PLAN - S.R. 435
STA. 111+00.00 TO STA. 116+75.00

HORIZONTAL SCALE IN FEET
0 20
10 40

DESIGN AGENCY
Palmer ENGINEERING
8200 EAST KEMPER ROAD
SUITE 100
CINCINNATI, OH 45249
(513) 469-1600

DESIGNER DAM
REVIEWER DPF 05/10/24
PROJECT ID 117955
SHEET P. 234 TOTAL 246





HORIZONTAL SCALE IN FEET
0 10 20 40

UNDERDRAIN PLAN - RAMP D
STA. 237+75.00 TO STA. 249+25.00

FAY-435-1.52

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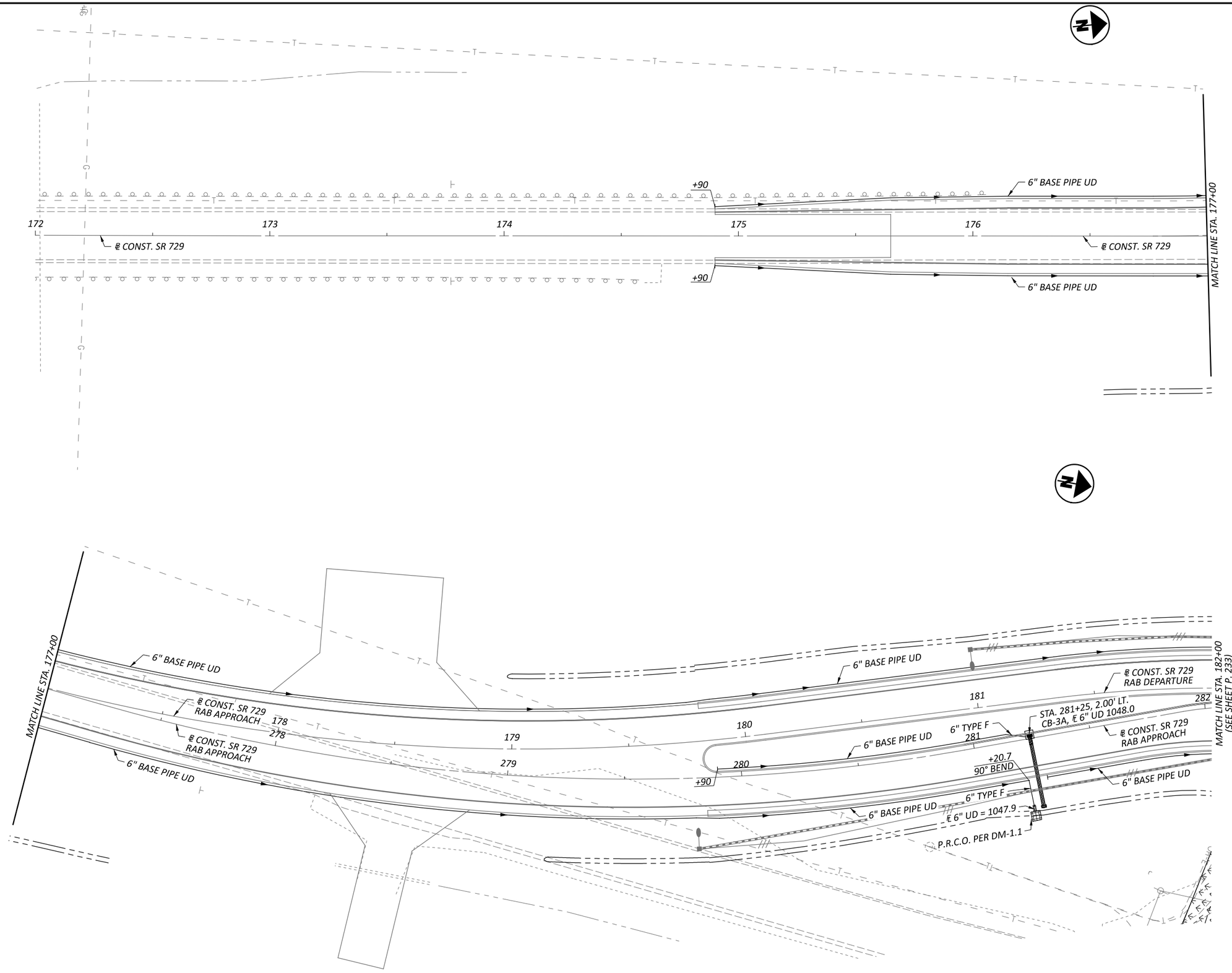
DESIGN AGENCY
Palmer ENGINEERING
8350 EAST KEMPER ROAD
SUITE B
CINCINNATI, OH 45249
(513) 469-1600

DESIGNER	DAM
REVIEWER	DPF 05/10/24
PROJECT ID	117955
SHEET	P. 235
TOTAL	246



HORIZONTAL SCALE IN FEET
0 10 20 40

UNDERDRAIN PLAN - S.R. 729
STA. 172+00.00 TO STA. 182+00.00

FAY-435-1.52

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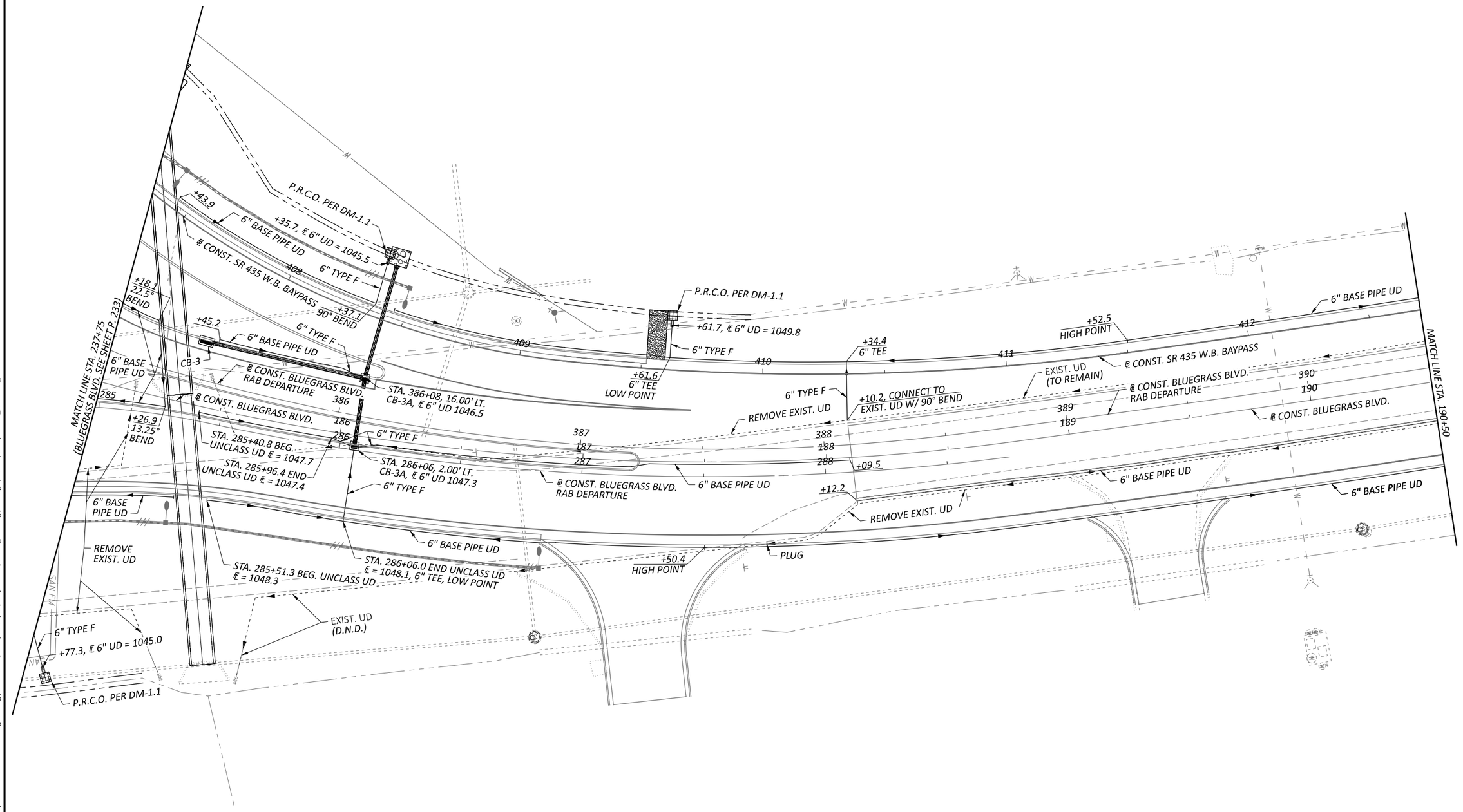
DESIGN AGENCY
Palmer ENGINEERING
8350 EAST KEMPER ROAD
SUITE B
CINCINNATI, OH 45249
(513) 469-1600

DESIGNER
DAM

REVIEWER
DPF 05/10/24

PROJECT ID
117955

SHEET P. 236 | TOTAL 246



HORIZONTAL
SCALE IN FEET
0 10 20 40

UNDERDRAIN PLAN - BLUEGRASS BLVD.
STA. 185+00.00 TO STA. 190+50.00

FAY-435-1.52

MODEL: CLP_BLUEGRASS - Plan15 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:44:15 PM USER: dan-f
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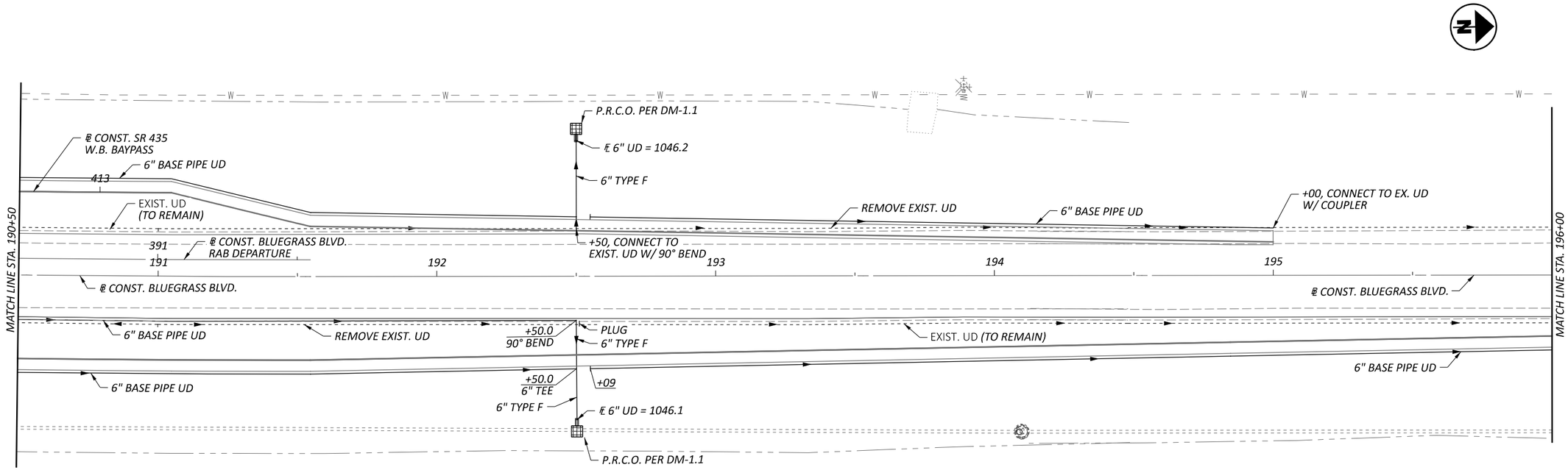
DESIGN AGENCY
Palmer ENGINEERING
8350 EAST KEMPER ROAD
SUITE B
CINCINNATI, OH 45249
(513) 469-1600

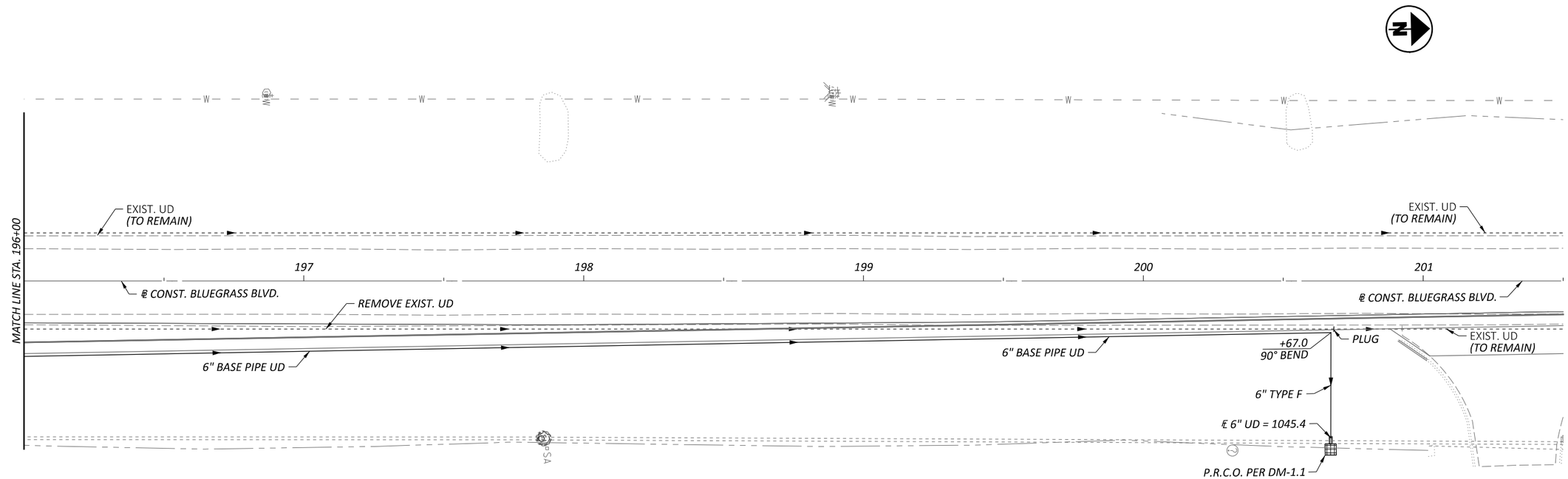
DESIGNER
DAM

REVIEWER
DPF 05/10/24

PROJECT ID
117955

SHEET P. 237 | TOTAL 246





HORIZONTAL
SCALE IN FEET
0 10 20 40

UNDERDRAIN PLAN - BLUEGRASS BLVD.
STA. 190+50.00 TO STA. 201+50.00

DESIGN AGENCY
Palmer ENGINEERING
8350 EAST KEMPER ROAD
SUITE B
CINCINNATI, OH 45249
(513) 469-1600

DESIGNER
DAM

REVIEWER
DPF 05/10/24

PROJECT ID
117955

SHEET P. 238 TOTAL 246

FAY-435-1.52

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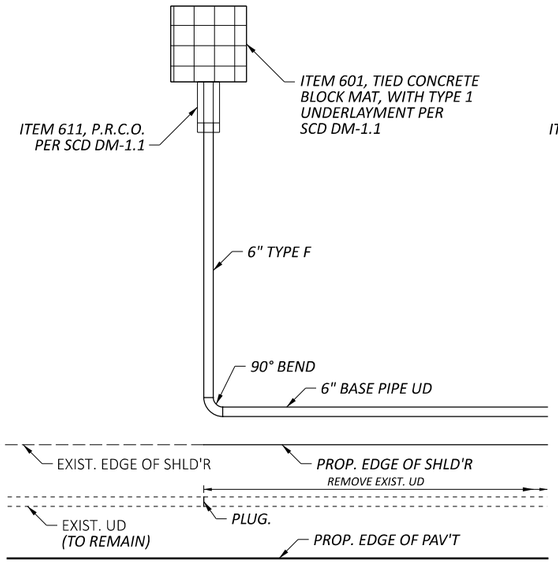
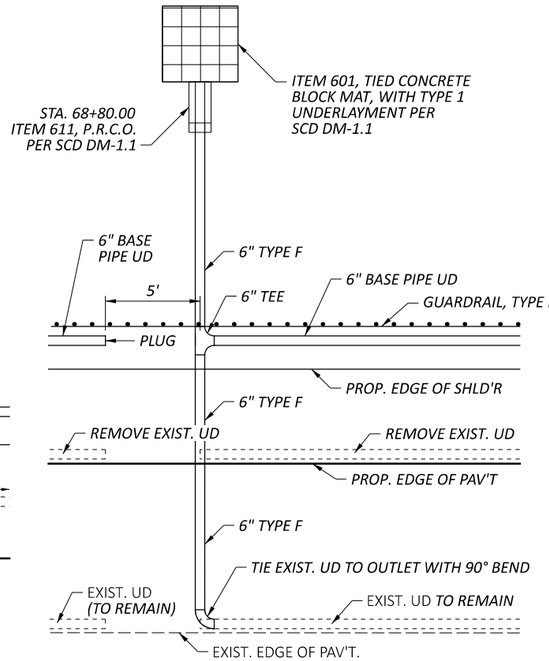


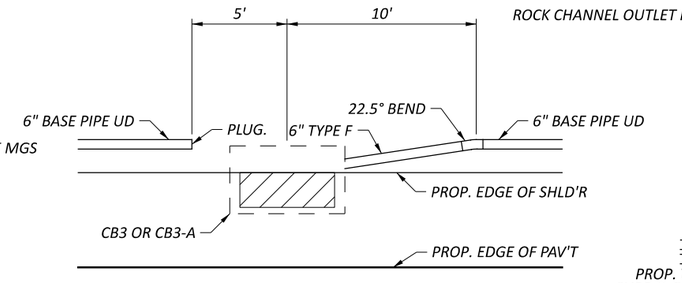
DETAIL A

℄ CONST. SR-435 - STA. 67+06.58 - LT.



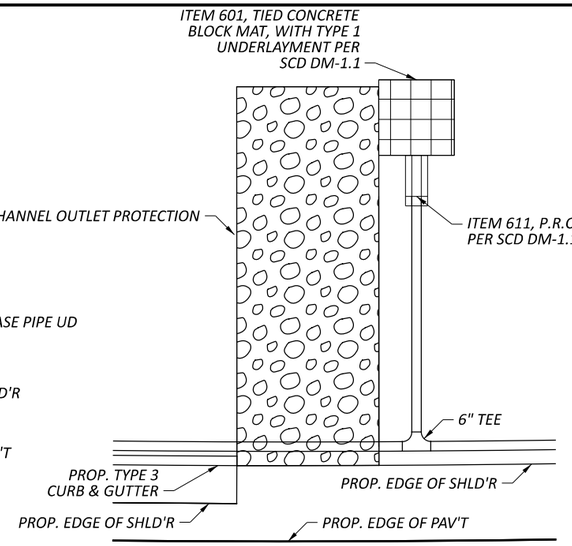
DETAIL B

℄ CONST. SR-435 - STA. 68+80.00 - LT



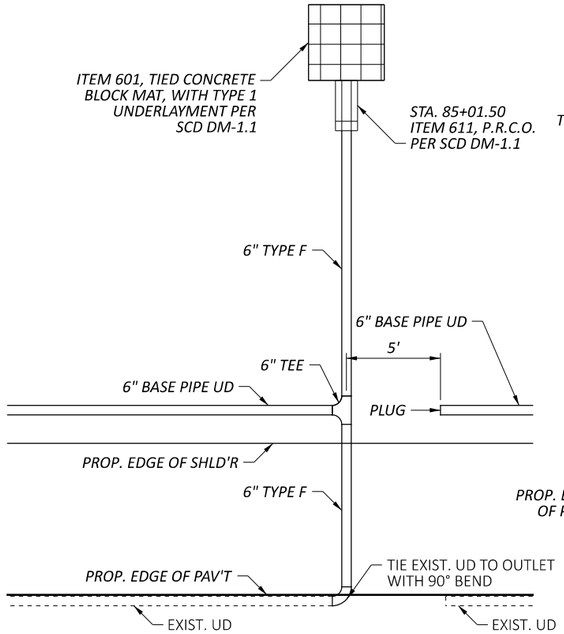
DETAIL C

℄ CONST. SR-435 - STA. 74+94.80



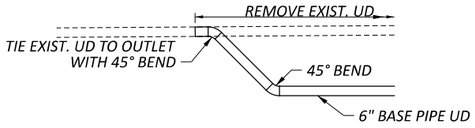
DETAIL D

℄ SR-435 WB BYPASS - STA. 409+61.68 - LT



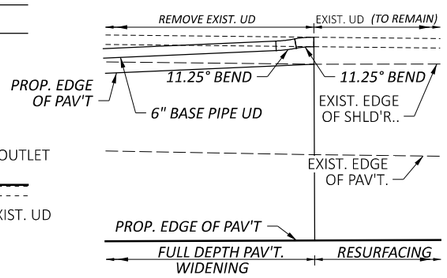
DETAIL E

℄ CONST. SR-435 - STA. 85+01.50



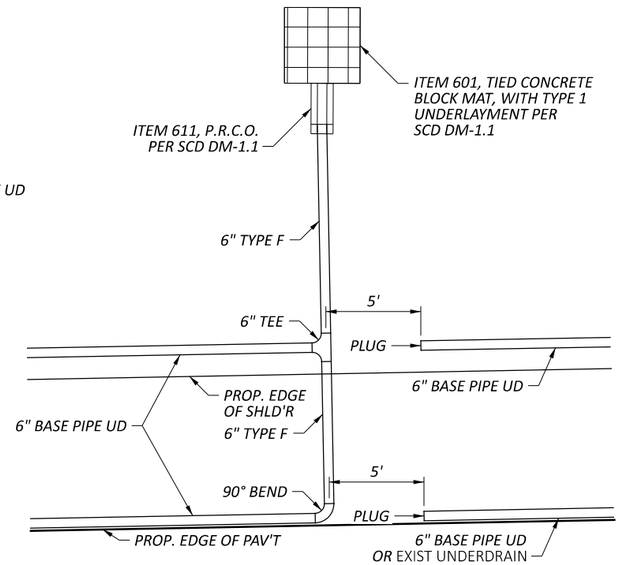
DETAIL F-1

(NOTE: ORIENTATION AND DIRECTION AS SHOWN ON UNDERDRAIN PLAN SHEETS)
℄ CONST. SR-435 - STA. 74+81.00 - RT
℄ CONST. SR-435 - STA. 82+87.00 - LT
℄ CONST. SR-435 - STA. 85+88.00 - LT
NOTE: CONNECT TO EXIST. PARALLEL UNDERDRAINS AT VARIOUS OFFSETS



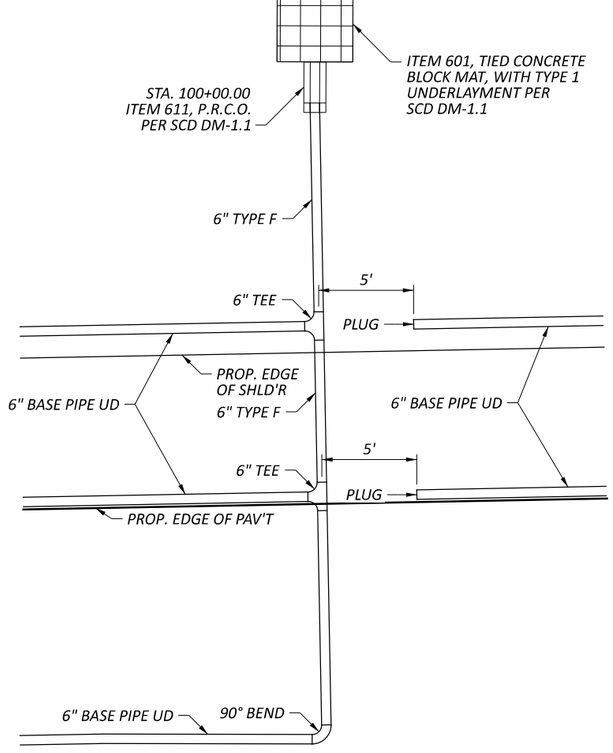
DETAIL F-2

℄ CONST. SR-435 - STA. 116+00.00 - LT
NOTE: CONNECT TO EXIST.UNDERDRAIN WITH BACK TO BACK 11.25° BENDS



DETAIL G

℄ CONST. SR-435 WEST - STA. 89+71.37 - LT
℄ CONST. SR-435 WEST - STA. 96+15.00 - LT



DETAIL H

℄ CONST. SR-435 WEST - STA. 100+00.00 - LT

UNDERDRAIN DETAILS

FAY-435-1.52

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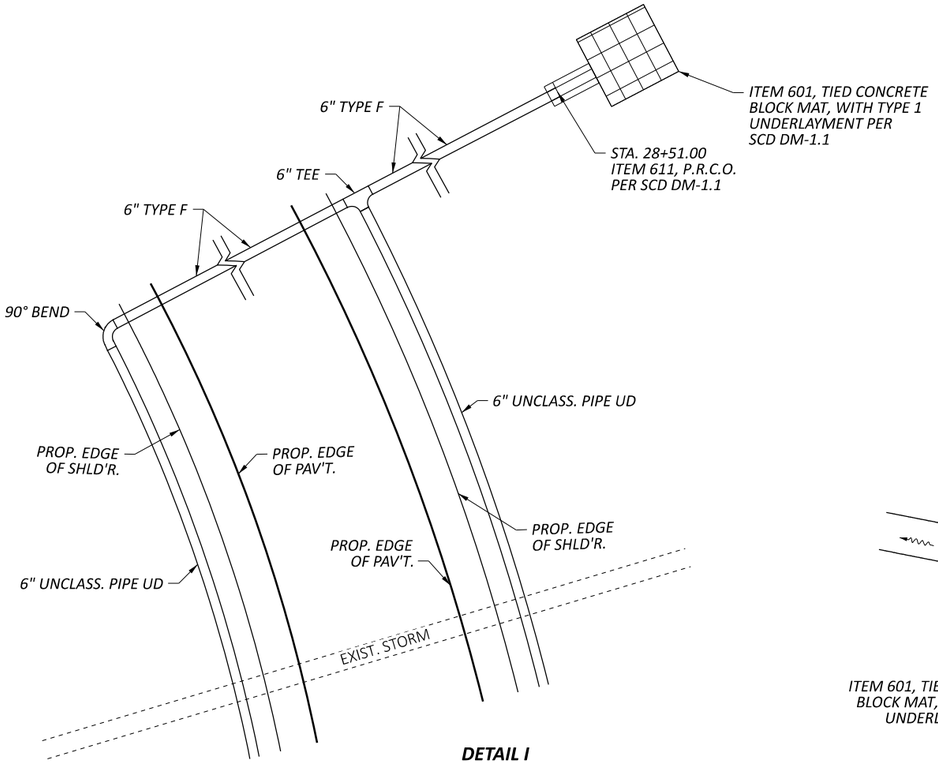
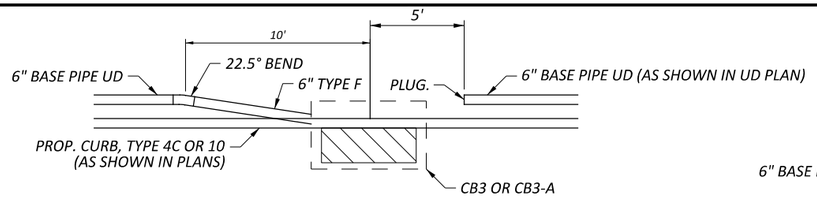
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DAM
REVIEWER DPF 05/10/24
PROJECT ID 117955
SHEET P.239 TOTAL 246



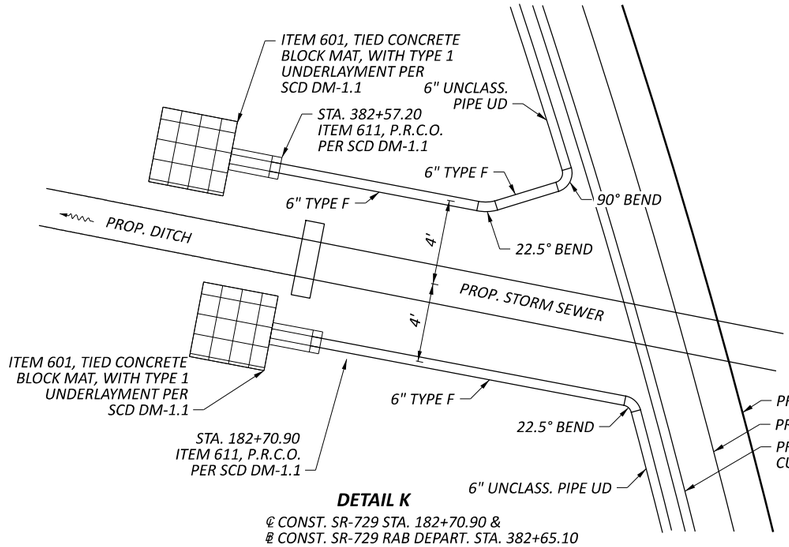
DETAIL I

℄ DAVIDSON-SOLLERS - STA. 28+51.00



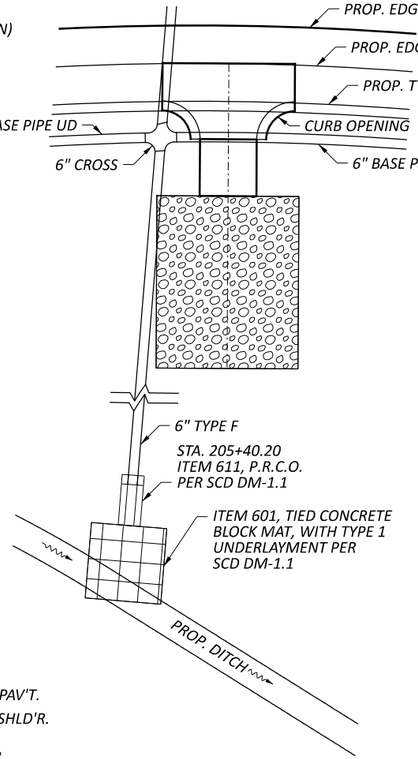
DETAIL J

(NOTE: ORIENTATION AND DIRECTION AS SHOWN ON UNDERDRAIN PLAN SHEETS)
℄ CONST. SR-435 RAB APP. (WEST) - STA. 203+75.00 - LT.
℄ CONST. SR-435 RAB DEPART. (WEST) - STA. 105+70.00 - LT.
℄ CONST. SR-729 RAB APP. - STA. 281+25.00 - LT.



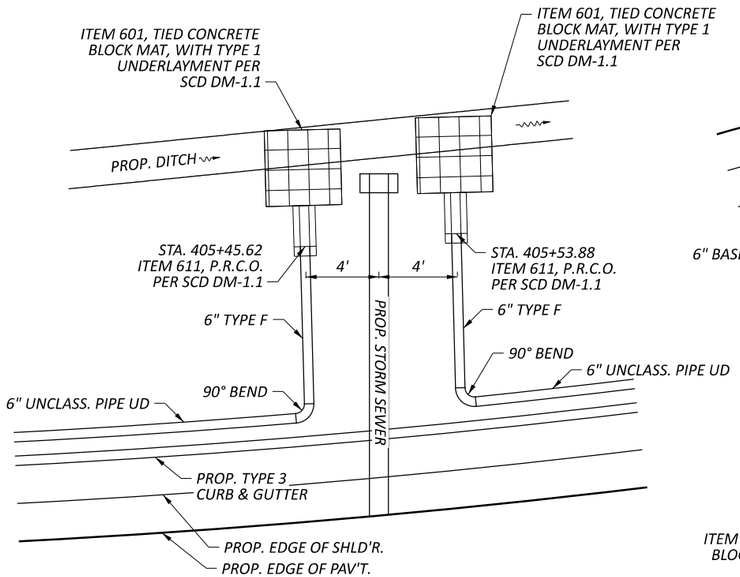
DETAIL K

℄ CONST. SR-729 STA. 182+70.90 &
℄ CONST. SR-729 RAB DEPART. STA. 382+65.10



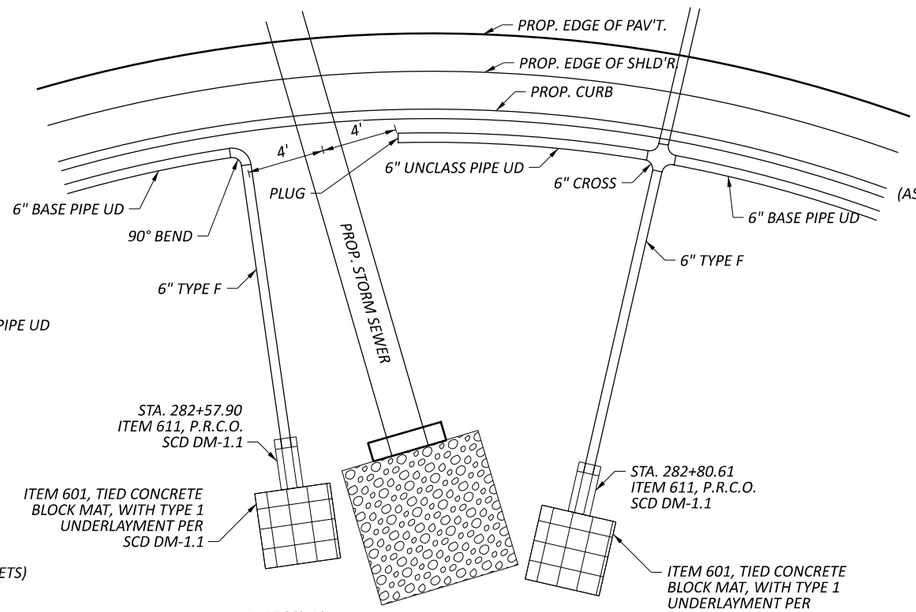
DETAIL L

℄ CONST. SR-435 RAB APP. (WEST) - STA. 205+40.20



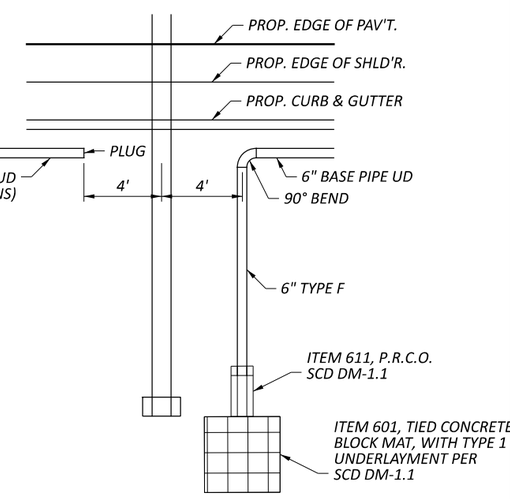
DETAIL M

(NOTE: ORIENTATION AND DIRECTION AS SHOWN ON UNDERDRAIN PLAN SHEETS)
℄ CONST. SR-435 BYPASS LANE (WEST) - STA. 405+45.62 - LT.
℄ CONST. SR-435 BYPASS LANE (WEST) - STA. 405+53.88 - LT.



DETAIL N

℄ CONST. SR-729 RAB APPROACH - STA. 282+57.90 & 282+80.61



DETAIL O

(NOTE: ORIENTATION AND DIRECTION AS SHOWN ON UNDERDRAIN PLAN SHEETS)
℄ CONST. SR-729 RAB APPR. - STA. 281+21.00 - RT.
℄ SR-435 RAB APPR.(WEST) - STA. 203+70.00 - RT.

UNDERDRAIN DETAILS

FAY-435-1.52

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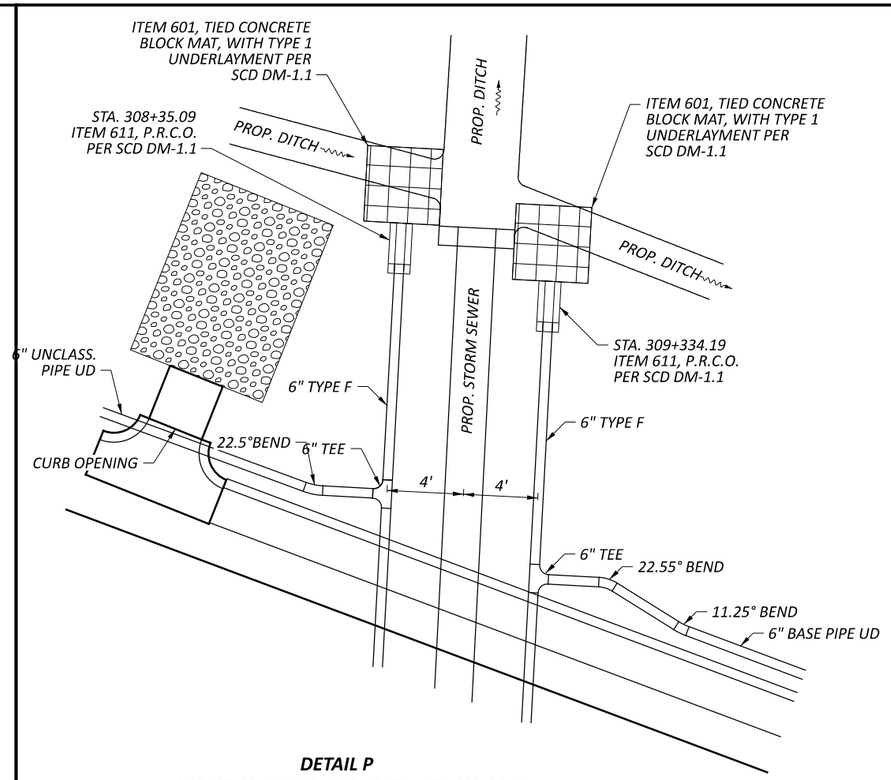
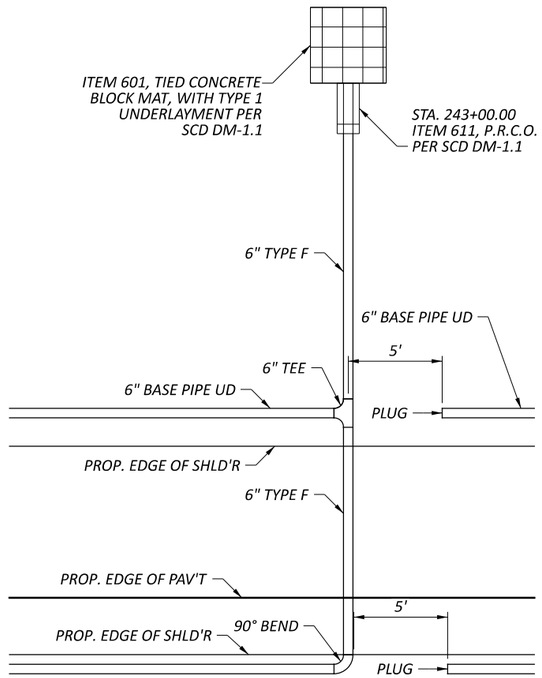
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER	DAM
REVIEWER	DPF 05/10/24
PROJECT ID	117955
SHEET	P.240
TOTAL	246



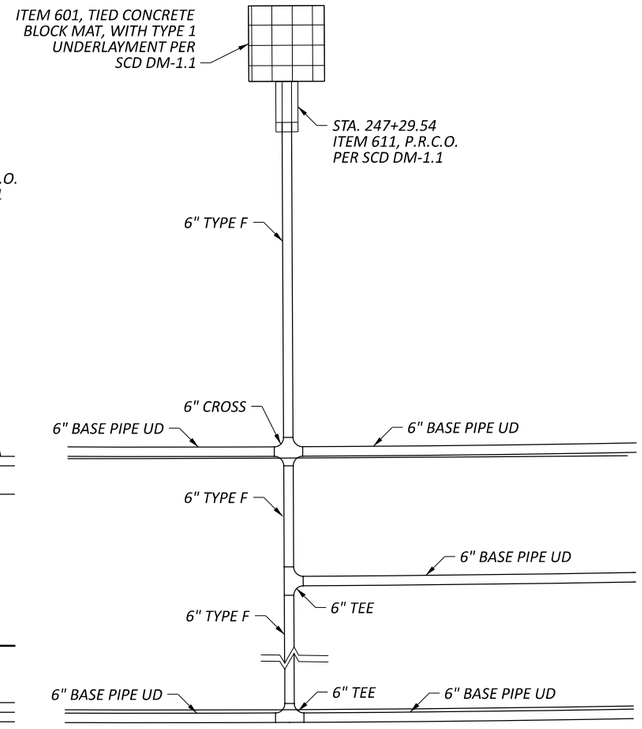
DETAIL P

℄ CONST. SR-435 RAB APPR. (EAST) - STA. 309+36.10



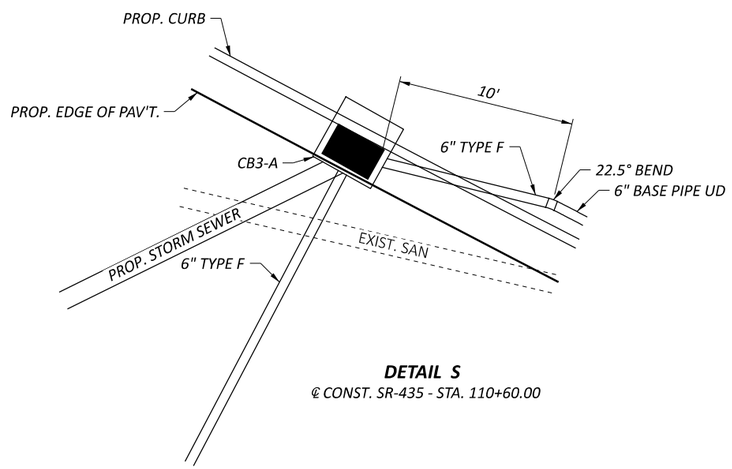
DETAIL Q

℄ CONST. US-35 RAMP D - STA. 243+00.00



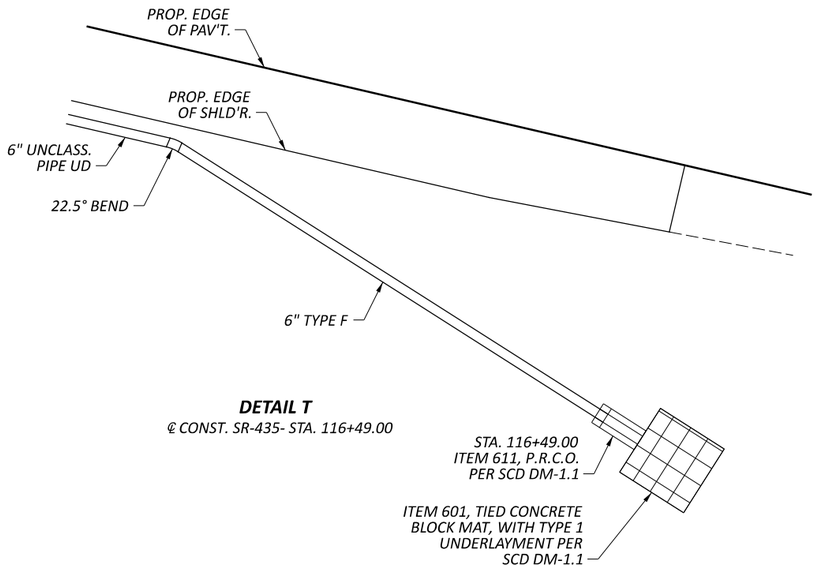
DETAIL R

℄ CONST. US-35 RAMP D - STA. 247+29.54



DETAIL S

℄ CONST. SR-435 - STA. 110+60.00



DETAIL T

℄ CONST. SR-435- STA. 116+49.00

UNDERDRAIN DETAILS

DESIGN AGENCY

Palmer ENGINEERING

8350 E. KEMPER RD. SUITE B CINCINNATI,OH 45249 513-469-1600

DESIGNER	DAM
REVIEWER	DPF 05/10/24
PROJECT ID	117955
SHEET	P.241
TOTAL	246

FAY-435-1.52

MODEL: Sheet - Details 3 PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:44:32 PM USER: dan-f
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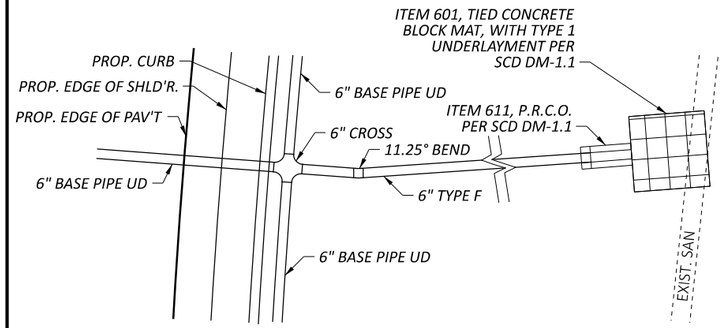
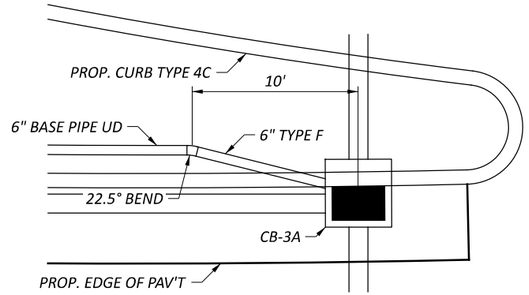


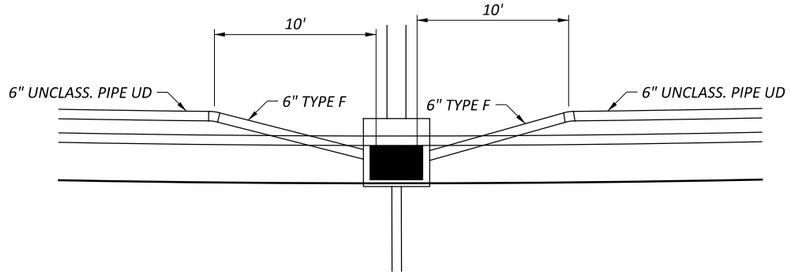
DETAIL U

℄ CONST. BLUEGRASS BLVD RAB DEPARTURE - STA. 284+76.74



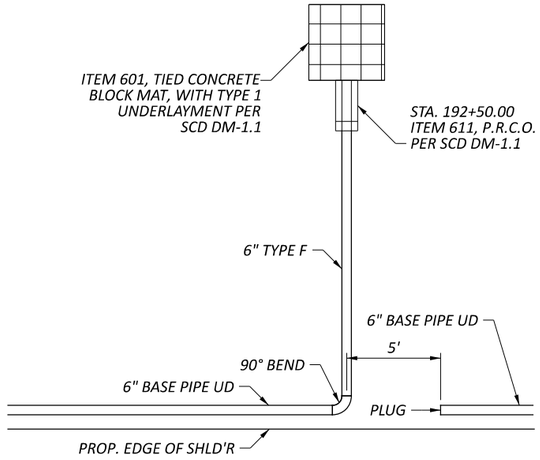
DETAIL V

℄ CONST. BLUEGRASS BLVD. RAB APPROACH - STA. 386+08.00



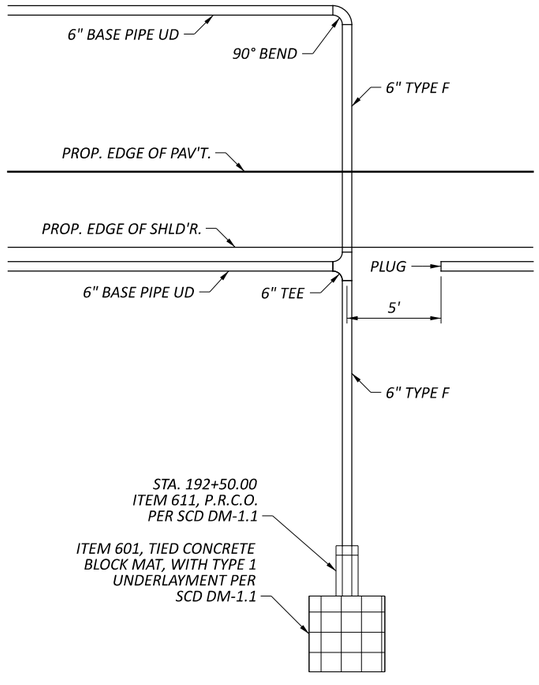
DETAIL W

℄ CONST. BLUEGRASS BLVD. RAB DEPART. - STA. 286+06.00



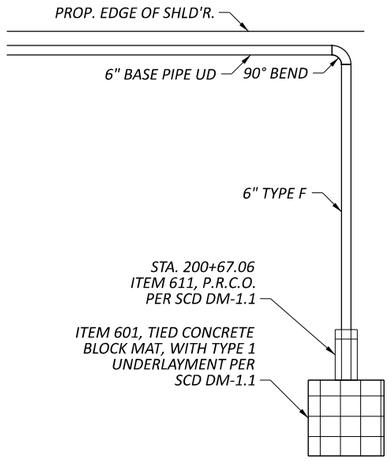
DETAIL X

℄ CONST. BLUEGRASS BLVD. - 192+50.00 - LT.



DETAIL Y

℄ CONST. BLUEGRASS BLVD. - 192+50.00 - RT.



DETAIL Z

℄ CONST. BLUEGRASS BLVD. - 200+67.06

UNDERDRAIN DETAILS

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD.
SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER
DAM

REVIEWER
DPF 05/10/24

PROJECT ID
117955

SHEET P.242 TOTAL 246

FAY-435-1.52

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FAY-435-1.52

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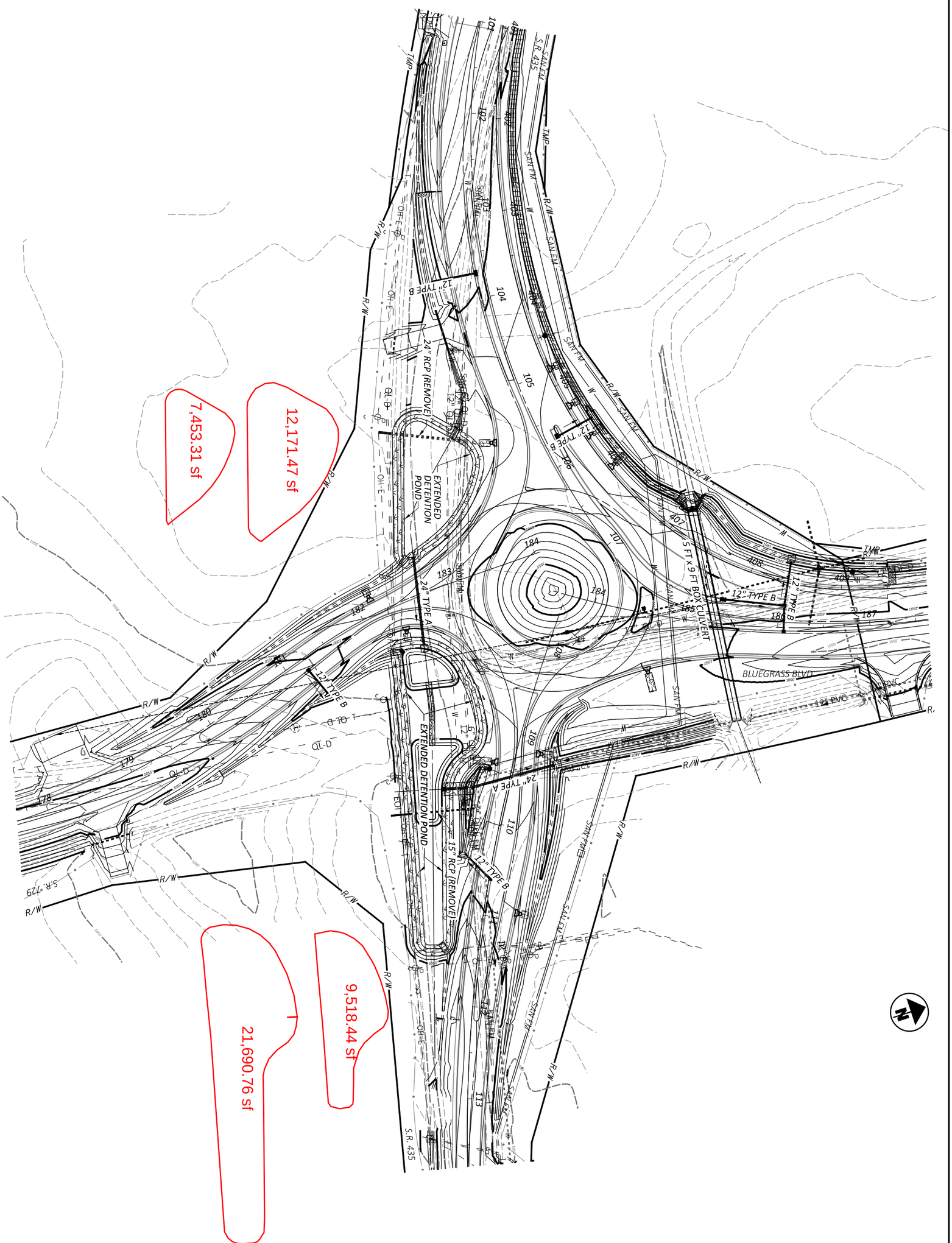
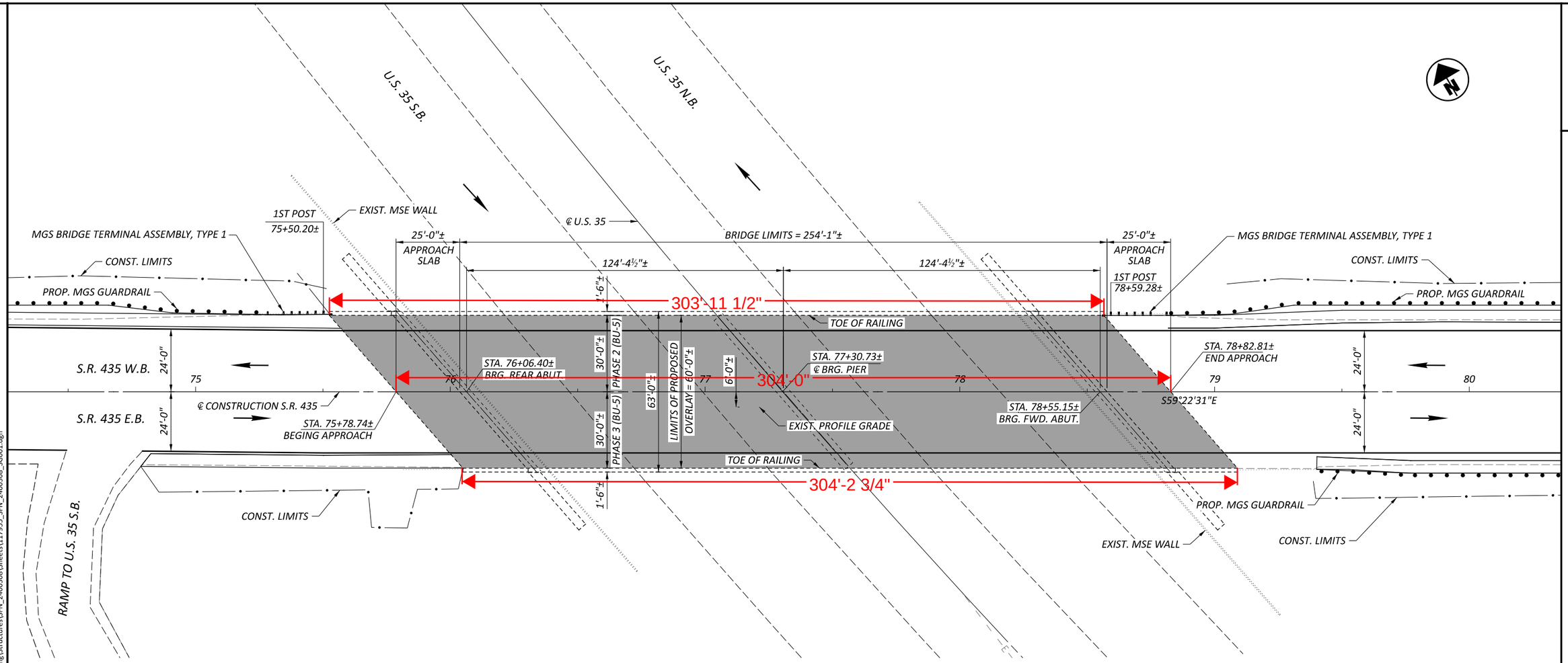


DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD. SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER DPF
REVIEWER DCJ 05/10/24
PROJECT ID 117955
SHEET P.243 TOTAL 246

GRADING PLAN
ROUNDABOUT - SR 435/SR725/BLUEGRASS BLVD.

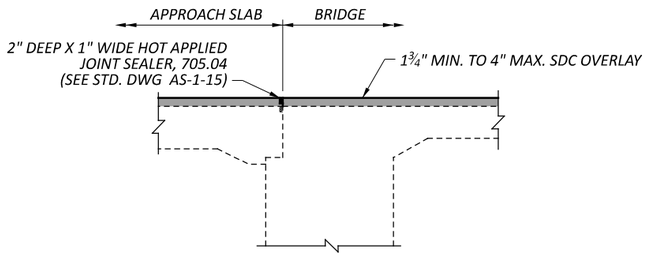
HORIZONTAL SCALE IN FEET
0 100 50-0"
25 100



PLAN

LEGEND

LIMITS OF SDC OVERLAY W/MACRO-SYNTHETIC FIBERS



APPROACH SLAB JOINT DETAIL

EXISTING STRUCTURE

TYPE: 2 - SPAN PCIB WITH SEMI- INTEGRAL ABUTMENTS, CAP & COLUMN PIER, AND REINFORCED CONC. DECK

SPANS: 2 SPANS @ 124'-4½"±

ROADWAY: 60'-0"± T/T RAILING

LOADING: HS25 (N.D.C.: HL-93)
(THIS BRIDGE RECEIVED AN APPROVED DESIGN EXCEPTION FOR DESIGN LOADING STRUCTURAL CAPACITY)

SKEW: 41°-08'-24" R.F.

WEARING SURFACE: 1" MONOLITHIC CONC.

APPROACH SLABS: 25'-0"± LONG (AS-1-81)

ALIGNMENT: TANGENT

CROWN: 0.016 FT/FT

STRUCTURE FILE NUMBER: 2400308

DATE BUILT: 2001

DISPOSITION: TO RECEIVE NEW SDC OVERLAY

HORIZONTAL SCALE IN FEET
0 10 20 40
1" = 40'-0"

GENERAL PLAN
BRIDGE NO. FAY-035-0435
S.R. 435 OVER U.S. 35

SFN 2400308

DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD. SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER	CHECKER
RJB	AMP

REVIEWER: BJF 05/10/24

PROJECT ID: 117955

SUBSET	TOTAL
1	3

SHEET	TOTAL
P.244	246

FAY-435-1.52

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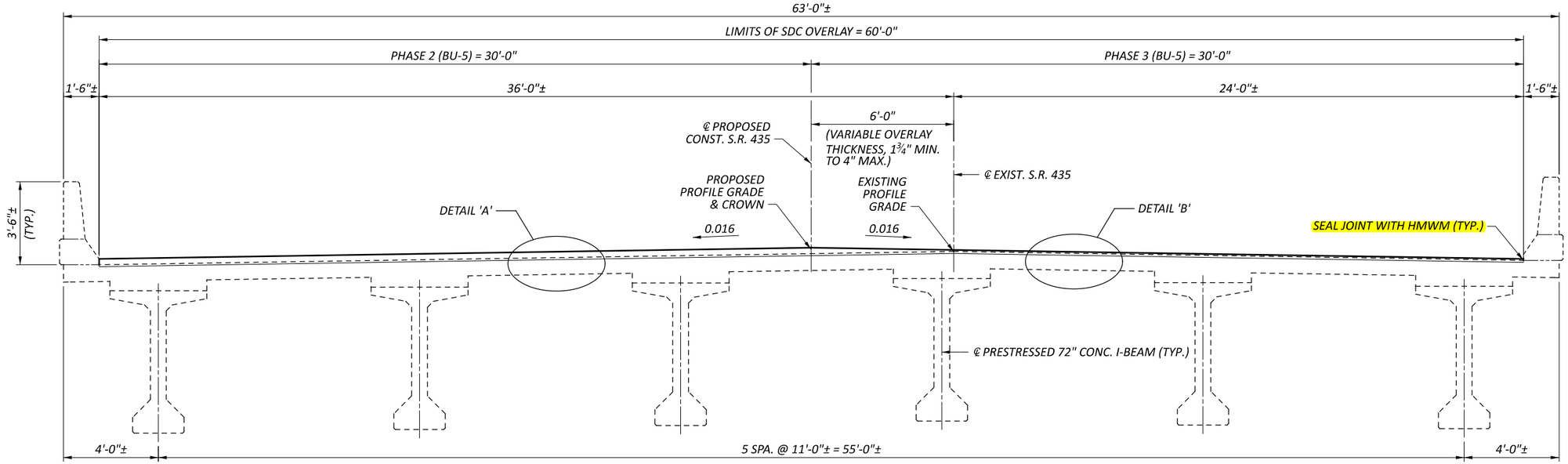
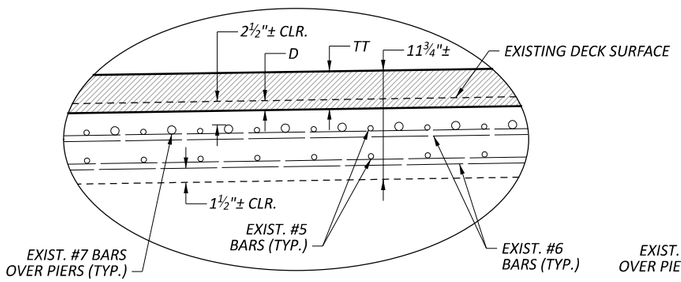
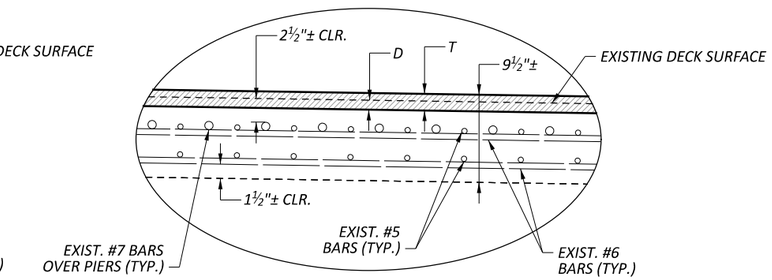


TRANSVERSE SECTION



DETAIL A



DETAIL B

D = 1" HYDRO DEMOLITION OF EXISTING CONCRETE DECK
T = 1¾" SDC OVERLAY W/ MACRO-SYNTHETIC FIBERS
TT = 4" SDC OVERLAY W/ MACRO-SYNTHETIC FIBERS

SUPERPLASTICIZED DENSE CONCRETE OVERLAY WITH MACRO-SYNTHETIC FIBERS

MACRO-SYTHETIC FIBERS SHALL BE 1.25" MIN. LENGTH AND SHALL BE ADDED TO THE MIX.

THE FIBERS SHALL BE INCORPORATED INTO THE MIX IN SUCH A WAY THAT NO 'BALLING' OCCURS. UPON INSPECTION OF THE MIX AT THE TIME OF PLACEMENT, IF ANY 'BALLING' OCCURS, THE ENGINEER SHALL REJECT THE REMAINDER OF THE LOAD AT ANY TIME DURING THE POUR. PROVIDE MACRO-SYNTHETIC FIBERS THAT ARE MONOFILAMENT FIBERS MADE FROM VIRGIN POLYPROPYLENE, POLYETHYLENE, OR CO-POLYMERS THAT ARE INERT TO ALKALI ATTACK. ENSURE THE MACRO-SYNTHETIC FIBERS HAVE A MINIMUM TENSILE STRENGTH OF 70 KSI, A MINIMUM MODULUS OF ELASTICITY OF 800 KSI, A MINIMUM FILAMENT DIAMETER OF 0.012 INCHES, AND ASPECT RATIO BETWEEN 60 AND 100, AND ARE BETWEEN 1.0 AND 2.5 INCHES IN LENGTH. STORE THE MACRO-SYNTHETIC FIBERS ACCORDING TO THE MANUFACTURER'S RECOMMENDATION AND KEEP THE MATERIAL FREE FROM DUST, DIRT AND MOISTURE.

THE TRANSIT MIXER CHARGE SHALL BE LIMITED TO 3/4 OF ITS RATED CAPACITY OR 6 CUBIC YARDS,WHICHEVER IS SMALLER.

CONCRETE SUPPLIERS SHOULD RECOGNIZE THAT ADMIXTURES MAY HAVE AN EFFECT ON STRENGTH, ENTRAINED AIR CONTENT, WORKABILITY, ETC. OF THEIR CONCRETE MIXES. THE CONCRETE SUPPLIERS CHOICE OF ONE OF THESE ADMIXTURES DOES NOT ALLEVIATE MEETING DESIGN REQUIREMENTS.

TRANSVERSE SECTION
BRIDGE NO. FAY-035-0435
S.R. 435 OVER U.S. 35

SFN 2400308
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD. SUITE B
CINCINNATI,OH 45249
513-469-1600

DESIGNER	CHECKER
RJB	AMP

REVIEWER: BJF 05/10/24
PROJECT ID: 117955
SUBSET: 2 TOTAL: 3
SHEET: P.245 TOTAL: 246

FAY-435-1.52

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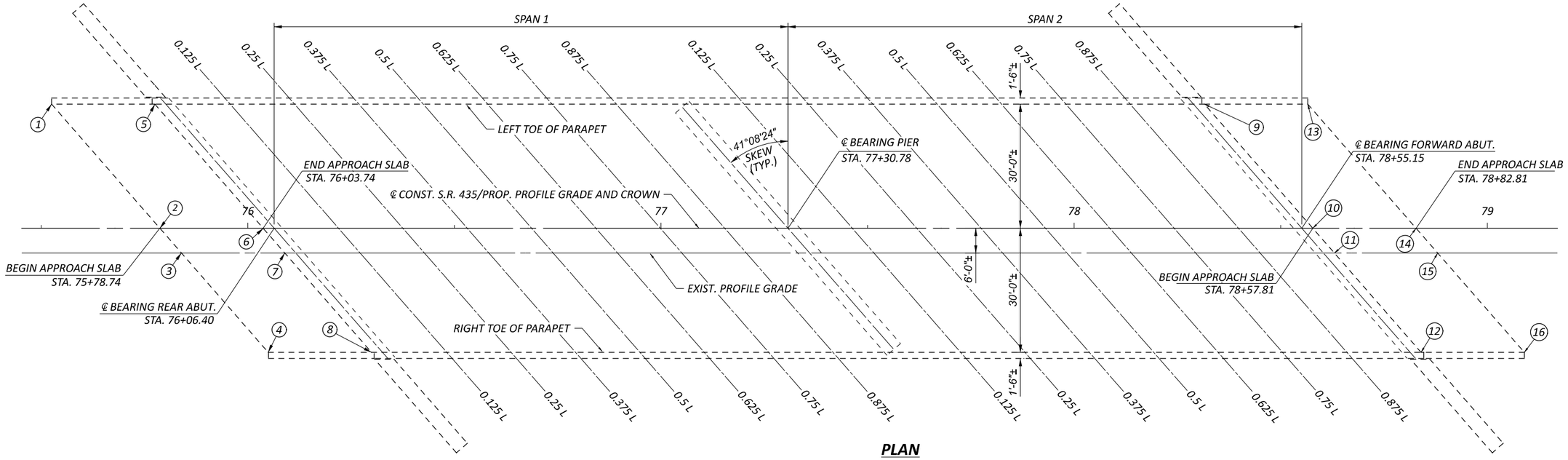
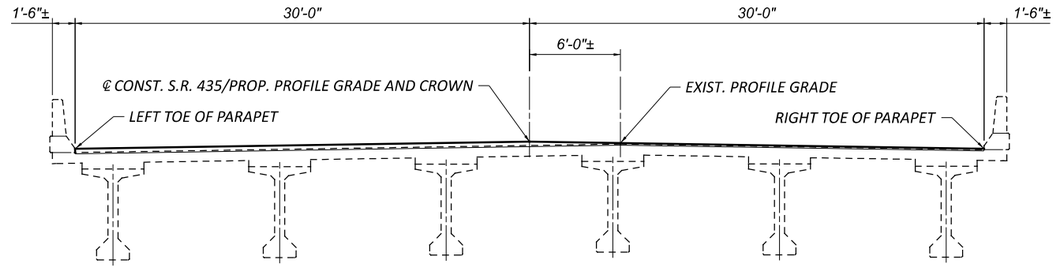


PLAN



TRANSVERSE SECTION

REAR APPROACH SLAB SURFACE ELEVATIONS

POINT	STATION	ELEVATION
1	75+52.54	1087.85
2	75+78.74	1088.29
3	75+83.99	1088.26
4	76+04.95	1088.15
5	75+77.54	1087.92
6	76+03.74	1088.46
7	76+08.99	1088.37
8	76+29.95	1088.14

FORWARD APPROACH SLAB SURFACE ELEVATIONS

POINT	STATION	ELEVATION
9	78+31.60	1087.27
10	78+57.81	1087.46
11	78+63.05	1087.30
12	78+84.01	1086.78
13	78+56.60	1086.85
14	78+82.81	1087.26
15	78+88.05	1087.14
16	79+09.01	1086.53

SCREED ELEVATIONS

LOCATION		CL BRG. REAR ABUT.	SPAN 1							CL BRG. PIER 1	SPAN 2							CL BRG. FWD. ABUT.
			0.125L	0.25L	0.375L	0.50L	0.625L	0.75L	0.875L		0.125L	0.25L	0.375L	0.50L	0.625L	0.75L	0.875L	
LEFT TOE OF PARAPET	STATION	75+80.19	75+95.74	76+11.29	76+26.83	76+42.38	76+57.93	76+73.47	76+89.02	77+04.57	77+20.11	77+35.66	77+51.21	77+66.75	77+82.30	77+97.85	78+13.40	78+28.94
	ELEVATION	1087.93	1087.98	1088.04	1088.09	1088.13	1088.14	1088.12	1088.09	1088.06	1088.00	1087.94	1087.89	1087.80	1087.70	1087.60	1087.46	1087.29
CL CONST. S.R. 435, PHASE CONSTRUCTION LINE, PGL & CROWN	STATION	76+06.40	76+21.95	76+37.49	76+53.04	76+68.59	76+84.13	76+99.68	77+15.23	77+30.78	77+46.32	77+61.87	77+77.42	77+92.96	78+08.51	78+24.06	78+39.60	78+55.15
	ELEVATION	1088.46	1088.49	1088.52	1088.53	1088.54	1088.55	1088.52	1088.46	1088.39	1088.32	1088.24	1088.16	1088.08	1087.96	1087.80	1087.63	1087.48
EXISTING PROFILE GRADE	STATION	76+11.64	76+27.19	76+42.74	76+58.28	76+73.83	76+89.38	77+04.92	77+20.47	77+36.02	77+51.56	77+67.11	77+82.66	77+98.20	78+13.75	78+29.30	78+44.84	78+60.39
	ELEVATION	1088.37	1088.39	1088.41	1088.41	1088.41	1088.40	1088.39	1088.32	1088.25	1088.18	1088.10	1088.02	1087.94	1087.81	1087.64	1087.47	1087.32
RIGHT TOE OF PARAPET	STATION	76+32.61	76+48.15	76+63.70	76+79.25	76+94.80	77+10.34	77+25.89	77+41.44	77+56.98	77+72.53	77+88.08	78+03.62	78+19.17	78+34.72	78+50.26	78+65.81	78+81.36
	ELEVATION	1088.13	1088.11	1088.10	1088.10	1088.09	1088.06	1087.99	1087.92	1087.85	1087.75	1087.66	1087.56	1087.41	1087.25	1087.09	1086.94	1086.80

DECK SCREED AND FINAL SURFACE ELEVATIONS
BRIDGE NO. FAY-035-0435
S.R. 435 OVER U.S. 35

SFN 2400308
DESIGN AGENCY
Palmer ENGINEERING
8350 E. KEMPER RD. SUITE B CINCINNATI,OH 45249 513-469-1600
DESIGNER RJB | CHECKER AMP
REVIEWER BJF 05/10/24
PROJECT ID 117955
SUBSET 3 | TOTAL 3
SHEET P. 246 | TOTAL 246

FAY-435-1.52

MODEL: Sheet_SurvFt PAPERSIZE: 17x11 (in.) DATE: 5/29/2024 TIME: 5:45:20 PM USER: dan-f
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