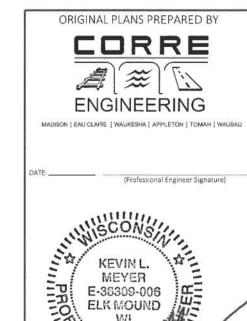
JANUARY 2024 STATE OF WISCONSIN ORDER OF SHEETS Section No. DEPARTMENT OF TRANSPORTATION Typical Sections and Details Section No Estimate of Quantities Section No Miscellaneous Quantities PLAN OF PROPOSED IMPROVEMENT Section No. Right of Way Plat Section No. Plan and Profile (Includes Erosion Control Plan) Standard Detail Drawings **HAYWARD - CLAM LAKE** USH 63 TO CTH K **STH 77** TOTAL SHEETS = **SAWYER COUNTY** PROJECT LOCATION STATE PROJECT NUMBER 8520-01-75 DEMINOUT 29 NET EXCEMPTION TO C/L LENGTH STA 266+29 TO STA 267+85 STRUCTURE B-57-061 T-41-N Phipps DESIGN DESIGNATION A.A.D.T. (2025) = 11.130 Raad A.A.D.T. (2045) = 13,740D.H.V. = 1,415 **BEGIN PROJECT** D.D. = 60/40 = 27% STA 211+06.64 DESIGN SPEED = 35 MPH . 55 MPH 63 Y= 439,491,425 = 2,790,000 X= 619,822.376 CONVENTIONAL SYMBOLS PROFILE GRADE LINE Ga Ha ward L. CORPORATE LIMITS ORIGINAL GROUND **END PROJECT** MARSH OR ROCK PROFILE PROPERTY LINE STA 512+01.81 (To be noted as such) Hayward _ LABEL ___ LOT LINE SPECIAL DITCH LIMITED HIGHWAY EASEMENT 33 GRADE ELEVATION EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE CULVERT (Profile View) SLOPE INTERCEPT UTILITIES REFERENCE LINE Spring . FIBER OPTIC **EXISTING CULVERT** GAS PROPOSED CULVERT OVERHEAD (Box or Pipe) SANITARY SEWER COMBUSTIBLE FLUIDS STORM SEWER HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), SAWYER CO TELEPHONE

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 8520-01-75 WISC 2024132



E-38309-006

ELK MOUND

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

Surveyor	WISDOT
Designer	CORRE INC
Project Manager	TYSON PELKOFER, PE
Regional Examiner	TOU YANG, PE
Regional Supervisor	TARA WEISS, PE

APPROVED FOR THE DEPARTMENT

Tyson Pelkofer

E

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

TOTAL NET LENGTH OF CENTERLINE = 5.670 MI.

NAD83 (2011), IN U.S. SURVEY FEET, POSITIONS SHOWN ARE GRID

COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES

ARE THE SAME AS GROUND DISTANCES, ELEVATIONS ARE REFERENCED TO NAVD 88 (2012), GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

SAWYER COUNTY.

MARSH AREA

WOODED OR SHRUB AREA

UTILITY CONTACTS

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

RIGHT OF WAY LINES SHOWN ON THE CROSS SECTIONS ARE APPROXIMATE.

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES.

CONTRACTOR SHALL MAINTAIN TRAFFIC ON STH 77 WHILE INSTALLING CULVERTS.

THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, BIKE OR PARKING LANE

HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN.

3.25 INCH HMA PAVEMENT TYPE 5 MT 58-34 V. SHALL BE CONSTRUCTED WITH 1.5 INCH UPPER LAYER AND 1.75 INCH

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE TOPSOILED (SALVAGED), FERTILIZED, SEEDED, AND MULCHED AS DIRECTED BY THE ENGINEER.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

REMOVING THE EXISTING APRON ENDWALLS AND FOR DISPOSING OF THE EXISTING APRON ENDWALLS SHALL BE INCIDENTAL TO THE APRON ENDWALLS FOR CULVERT PIPE ITEMS.

UNDER THE ASPHALTIC SURFACE BID ITEM. FURNISH ASPHALTIC MIXTURE MEETING THE REQUIREMENT FOR 4 MT 58-34 S, OR GREATER, UNDER STANDARD SPEC 460.2. THE ENGINEER WILL NOT REQUIRE THE CONTRACTOR TO CONFORM TO THE QUALITY MANAGEMENT PROGRAM SPECIFIED IN STANDARD SPEC 460.2.8.

ORDER OF SECTION 2 SHEETS

GENERAL NOTES TYPICAL SECTIONS CONSTRUCTION DETAILS PAVEMENT MARKING

COMMUNICATIONS

LUMEN

BRIAN HUHN PO BOX 78 HAWKINS, WI 54530 PHONE: (608) 615-7347 PHONE (MOBILE): (715) 563-8294 EMAIL: BRIAN.HUHN@LUMEN.COM

ELECTRICITY

JUMP RIVER ELECTRIC COOPERATIVE **KURT HARRIS** 1102 W 9TH ST N LADYSMITH, WI 54848 PHONE: (715) 532-5524 PHONE (MOBILE): (715) 827-0146 EMAIL: KHARRIS@JREC.COM

GAS/PETROLEUM

WE ENERGIES

STEVEN CHAVERS 104 W SOUTH ST RICE LAKE, WI 54868 PHONE: (715) 234-9605 PHONE (MOBILE): (715) 213-4327

EMAIL: STEVEN.CHAVERS@WE-ENERGIES.COM

COMMUNICATIONS

JAMEY OLDEEN

SPECTRUM

2304 S MAIN STREET RICE LAKE, WI 54868 PHONE: (715) 719-0561 PHONE (MOBILE): (715) 651-7488 EMAIL: JAMEY.OLDEEN@CHARTER.COM

ELECTRICITY

XCEL ENERGY - ELECTRIC **ERIN PETERSON** 2400 FARM RD ASHLAND, WI 54806

PHONE (MOBILE): (715) 220-1837 EMAIL: ERIN.J.PETERSON@XCELENERGY.COM

SEWER

CITY OF HAYWARD JOHN MCCUE PO BOX 969 HAYWARD, WI 54843 PHONE: (715) 634-4612 PHONE (MOBILE): (715) 699-4612 EMAIL: PW3@CENTURYTEL.NET

COMMUNICATIONS

NORVADO

GUY FOLSOM 43705 US HWY 63 CABLE, WI 54821 PHONE: (715) 798-7123 PHONE (MOBILE): (715) 580-8123 EMAIL: GFOLSOM@NORVADO.COM

ELECTRIC - TRANSMISSION

XCEL ENERGY - TRANSMISSION MITCHELL DIENGER 414 NICOLLET MALL, 5TH FLOOR MINNEAPOLIS, MN 55401 PHONE: (612) 321-3109

PHONE (MOBILE): (608) 386-2233

EMAIL: MITCHELL.A.DIENGER@XCELENERGY.COM

WATER

CITY OF HAYWARD

JOHN MCCUE PO BOX 969 HAYWARD, WI 54843 PHONE: (715) 634-4612 PHONE (MOBILE): (715) 699-4612 EMAIL: PW3@CENTURYTEL.NET

EMERGENCY CONTACT NEEDED FOR GAS/PETROLEUM FROM WE ENEGIES

Dial or (800)242-8511 www.DiggersHotline.com

RUNOFF COFFFICIENT TABLE

					HYDROLOGIC SOIL GROUP									
		A	4		В	i		C	-		D)		
	SLOP	E RANG	E (PERCENT)	SLOPE	RANG	E (PERCENT)	SLOPI	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			
LAND USE:	0 - 2	2 - 6	6 & OVER	0 - 2) - 2 2 - 6 6 & OVER			2 - 6	6 & OVER	0 - 2	2 - 6	6 & OVER		
ROW CROPS	.08 .22	.16 .30	.22 .38	.38 .26 .34 .24 .19 .22		.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56		
MEDIAN STRIP- TURF	.19 .24	.20 .26				.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40		
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38		
PAVEMENT:														
ASPHALT						.7095								
CONCRETE						.8095								
BRICK		, and the second			, and the second	.7080		, and the second			Ť			
DRIVES, WALKS						.7585								
ROOFS						.7595								
GRAVEL ROADS, S	SHOULD	ERS			Ī	.4060		Ī			Ţ.			

TOTAL PROJECT AREA = - ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = - ACRES

CONSULTANT CONTACT

CORRE, INC. 1802 WARDEN STREET EAU CLAIRE, WI 54703

ATTN: MR. KEVIN MEYER, P.E. TELEPHONE: (715) 299-1894 E-MAIL: KMEYER@CORREINC.COM **DNR LIAISON**

DEPARTMENT OF NATURAL RESOURCES DNR NORTHERN REGION HEADQUARTERS 810 W MAPLE STREET SPOONER, WI 54801

ATTN: MR. SHAWN HASELEU TELEPHONE: (715) 635-4228 E-MAIL: SHAWN.HASELEU@WISCONSIN.GOV

COUNTY CONTACT

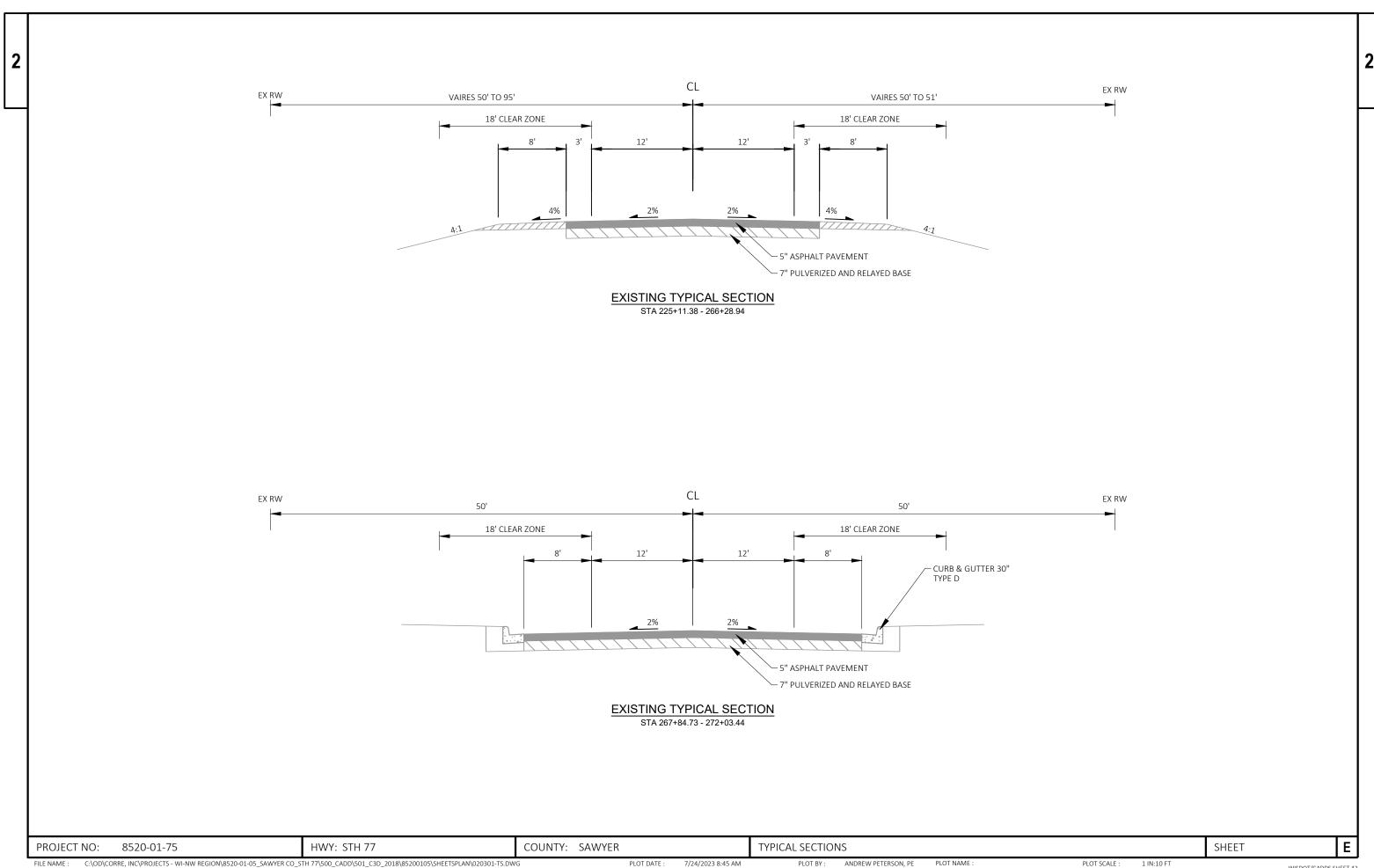
SAWYER COUNTY HIGHWAY COMMISSIONER GARY GEDART 14688 W COUNTY ROAD B HAYWARD, WI 54843

ATTN: MR. GARY GEDART TELEPHONE: (715) 634-2691 E-MAIL: HIGHWAY@SAWYERCOUNTYGOV.ORG

8520-01-75 HWY: STH 77 COUNTY: SAWYER **GENERAL NOTES SHEET** PROJECT NO:

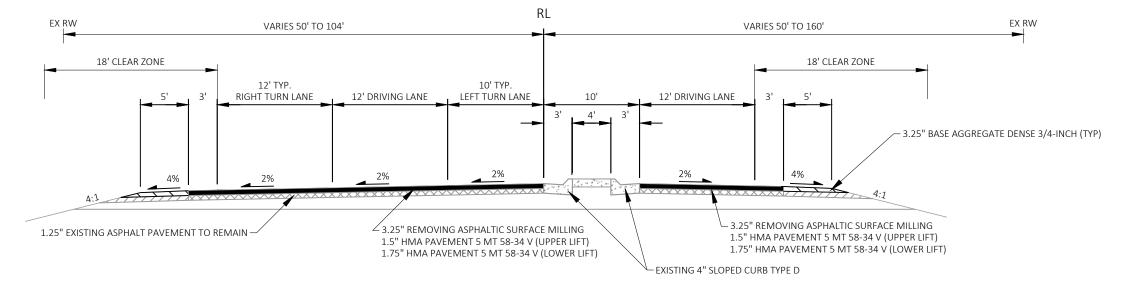
7/24/2023 8:45 AM

1 IN:100 FT

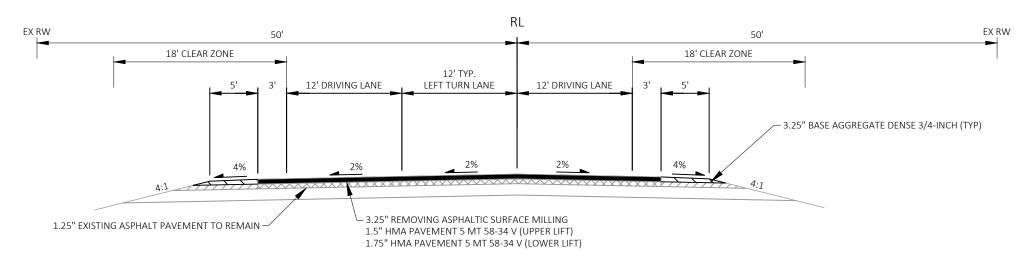


PLOT SCALE :





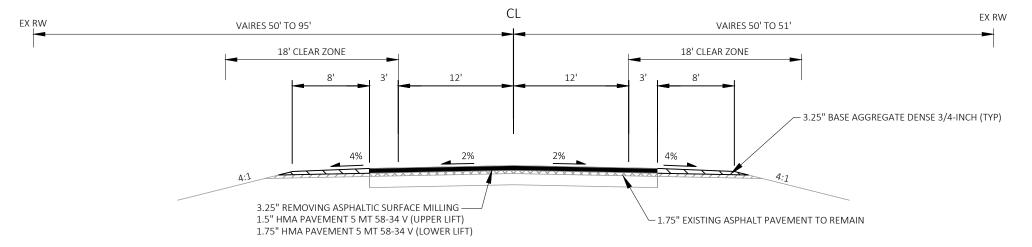
TYPICAL FINISHED SECTION STA 211+06.64 - 216+14.82



STA 216+14.82 - 225+11.38

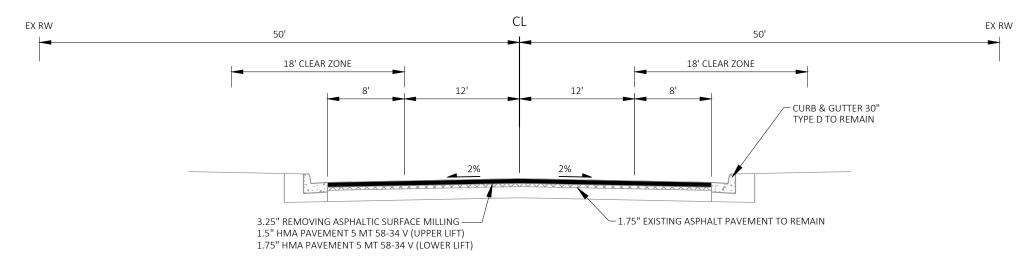
Ε PROJECT NO: 8520-01-75 HWY: STH 77 COUNTY: SAWYER TYPICAL SECTIONS SHEET FILE NAME : ${\tt C:\!VOD\setminus\!CORRE, INC\setminus\!PROJECTS-WI-NW\,REGION\setminus\!8520-01-05_SAWYER\,CO_STH\,77\backslash 500_CADD\setminus\!501_C3D_2018\setminus\!85200105\backslash SHEETSPLAN\setminus\!020301-TS.DWG}$ 7/24/2023 8:45 AM PLOT BY: ANDREW PETERSON, PE PLOT NAME: 1 IN:10 FT





TYPICAL FINISHED SECTION

STA 225+11.38 - 266+28.94

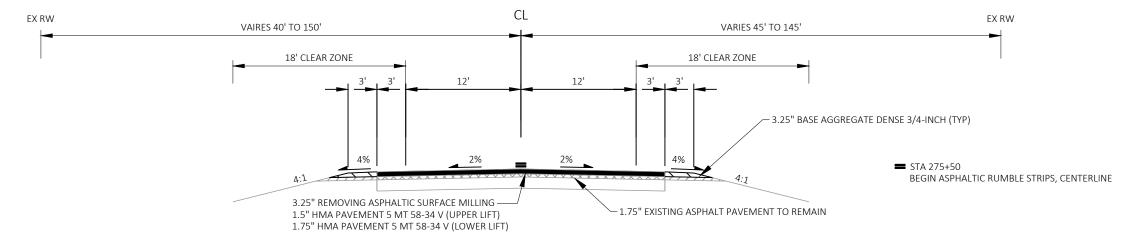


TYPICAL FINISHED SECTION

STA 267+84.73 - 272+03.44

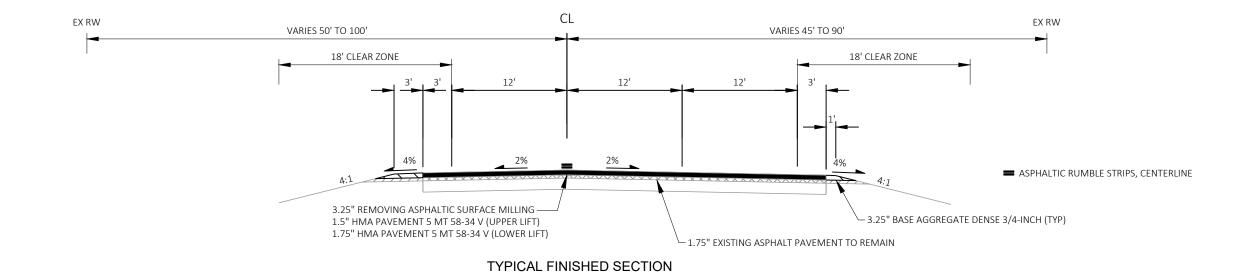
COUNTY: SAWYER Ε PROJECT NO: 8520-01-75 HWY: STH 77 TYPICAL SECTIONS SHEET FILE NAME : C:\OD\CORRE, INC\PROJECTS - WI-NW REGION\8520-01-05_SAWYER CO_STH 77\500_CADD\501_C3D_2018\85200105\SHEETSPLAN\020301-TS.DWG PLOT DATE : 7/24/2023 8:45 AM PLOT BY: ANDREW PETERSON, PE PLOT NAME: PLOT SCALE : 1 IN:10 FT WISDOT/CADDS SHEET 42





TYPICAL FINISHED SECTION

STA 272+03.44 - 328+47.66 STA 371+24.86 - 512+01.81

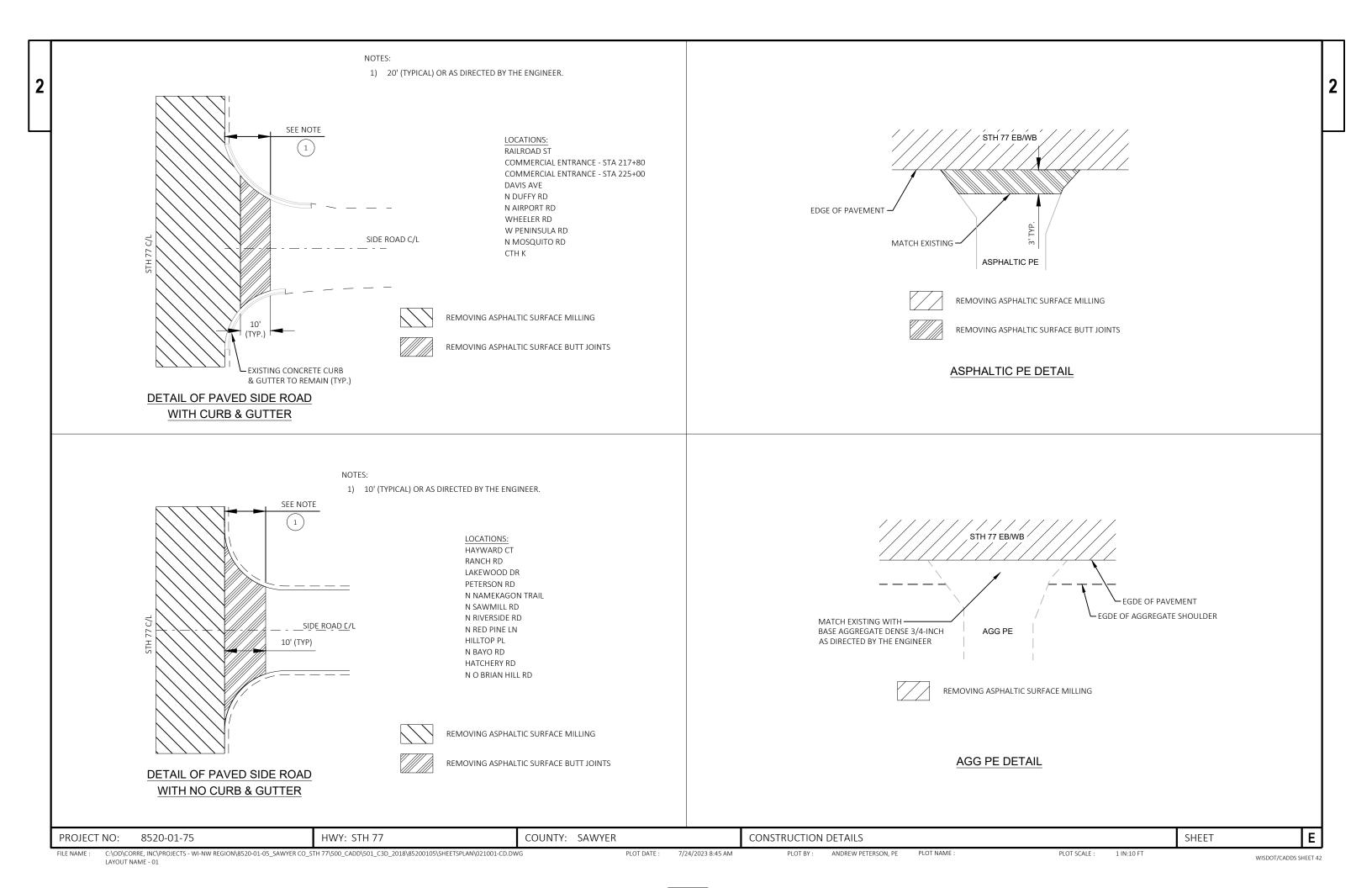


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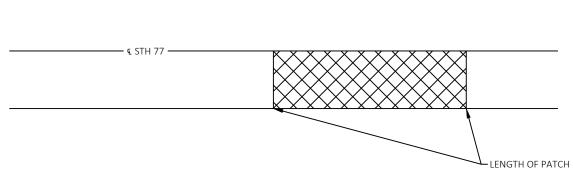
STA 328+47.66 - 371+24.86

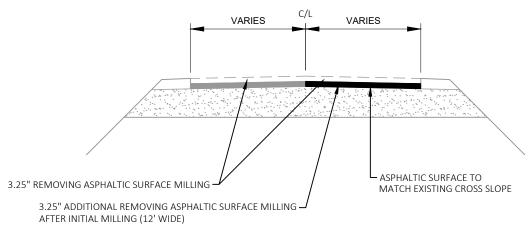
TYPICAL SECTIONS

Ε



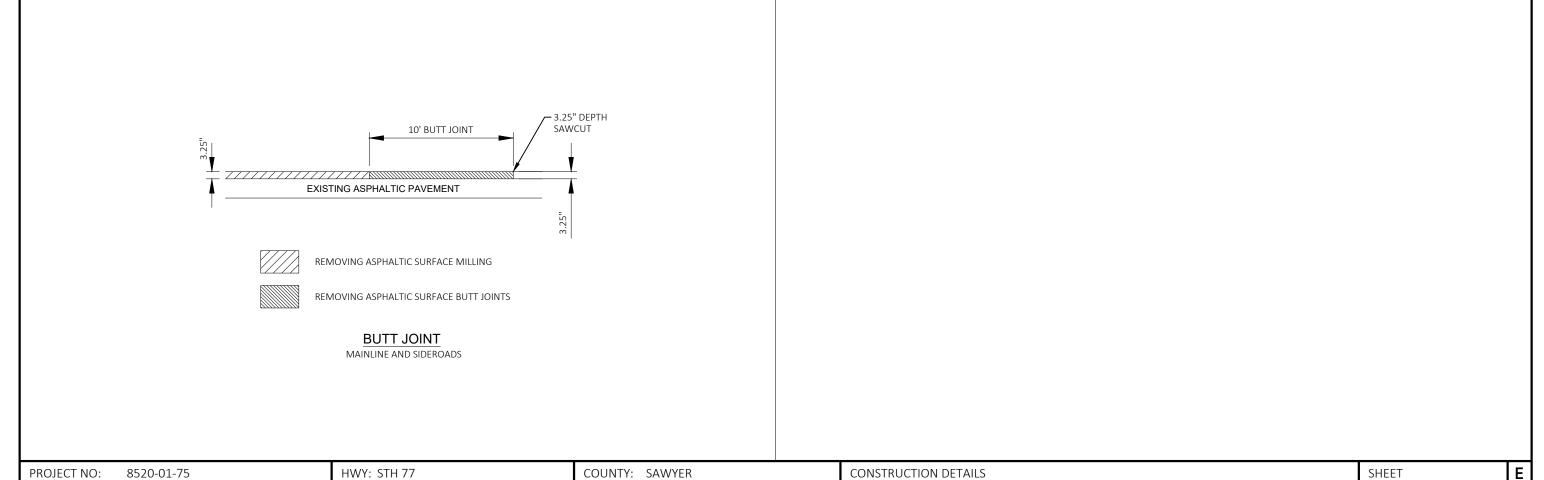
VARIES VARIES





ASPHALTIC BASE PATCH PARTIAL DEPTH

LOCATIONS TO BE DETERMINED BY ENGINEER IN THE FIELD



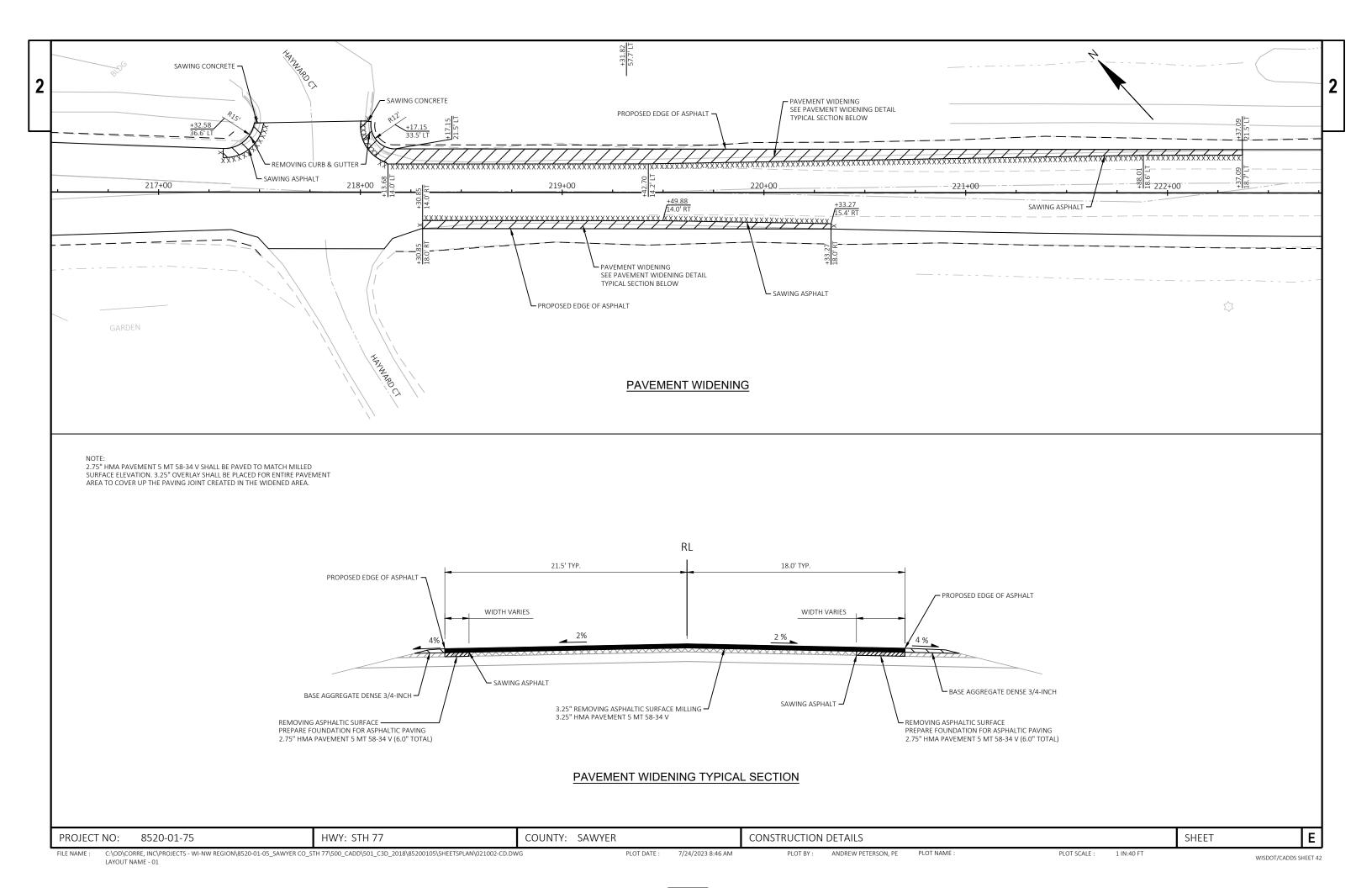
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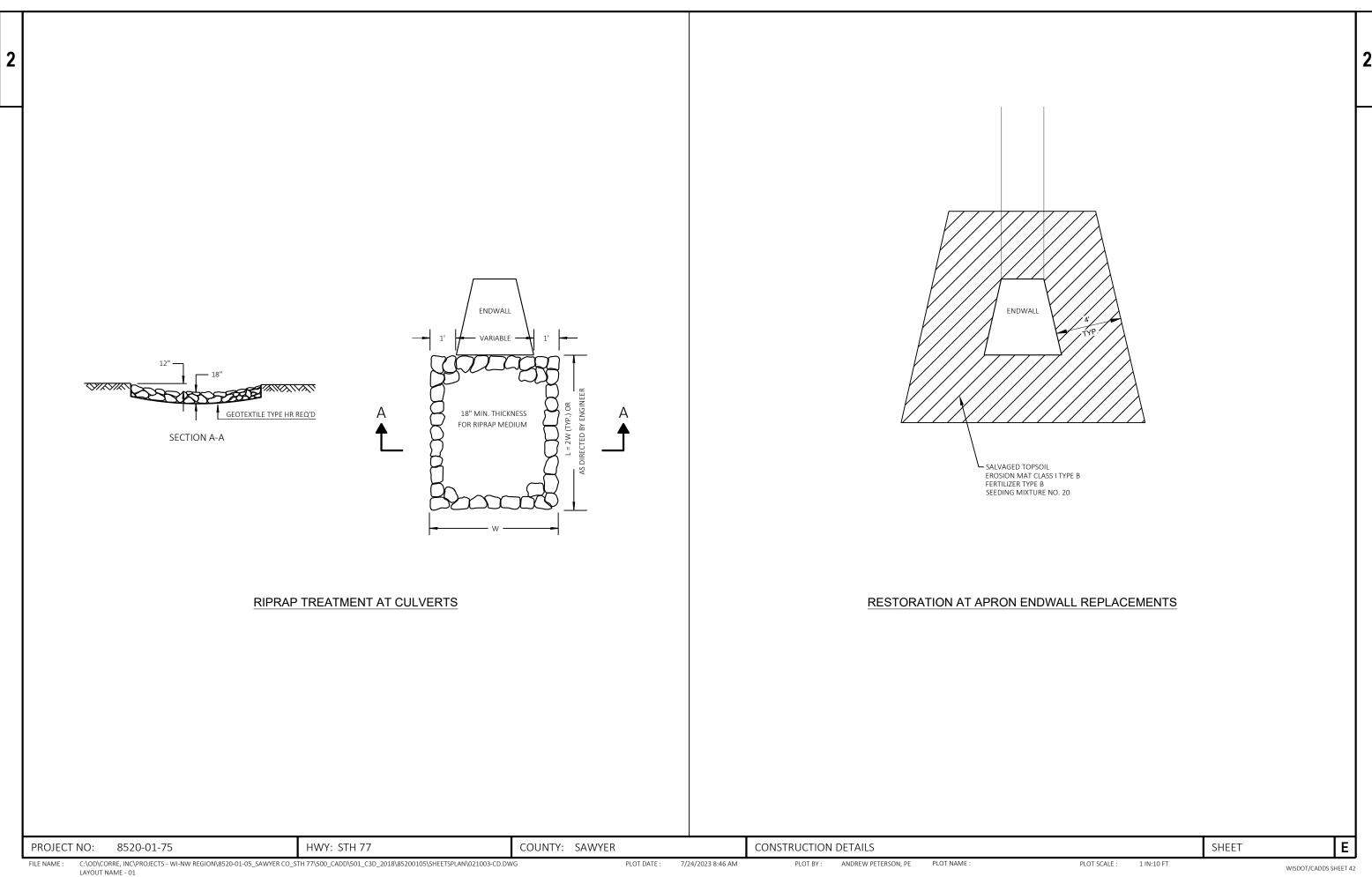
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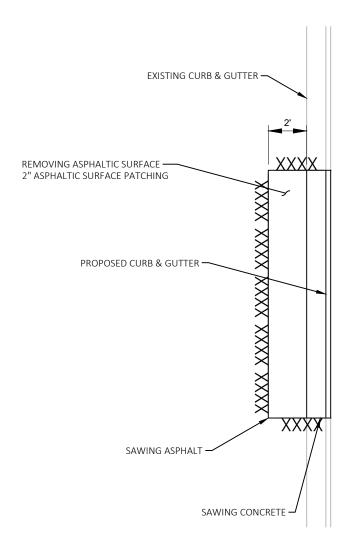
PLOT BY: ANDREW PETERSON, PE PLOT NAME:

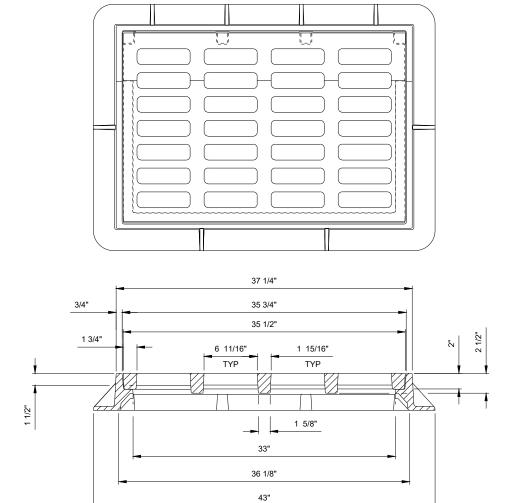
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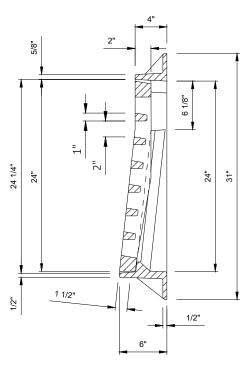
1 IN:10 FT







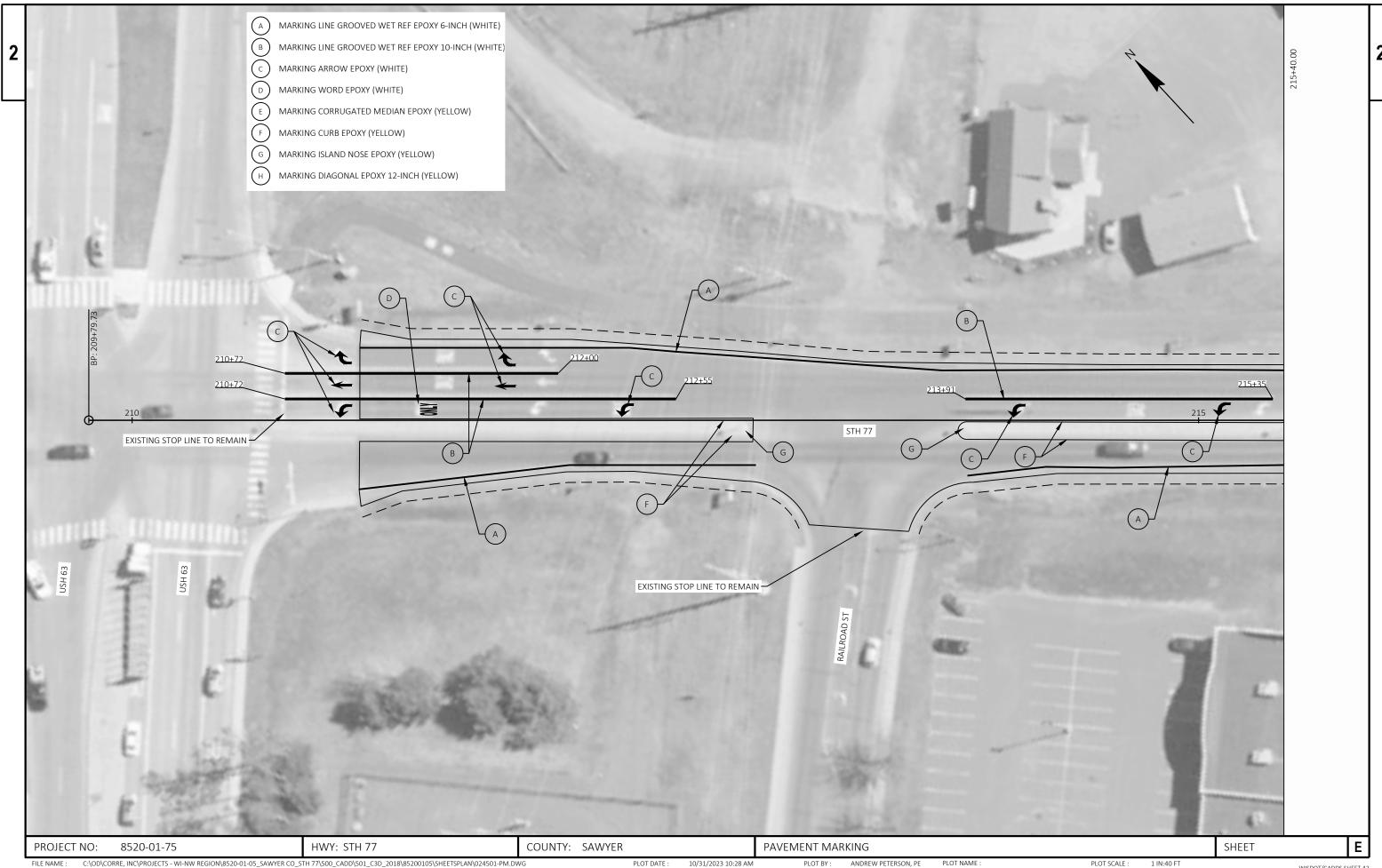




ASPHALT PATCHING AT CURB REMOVAL AND INSTALLATION

INLET COVERS TYPE SPECIAL

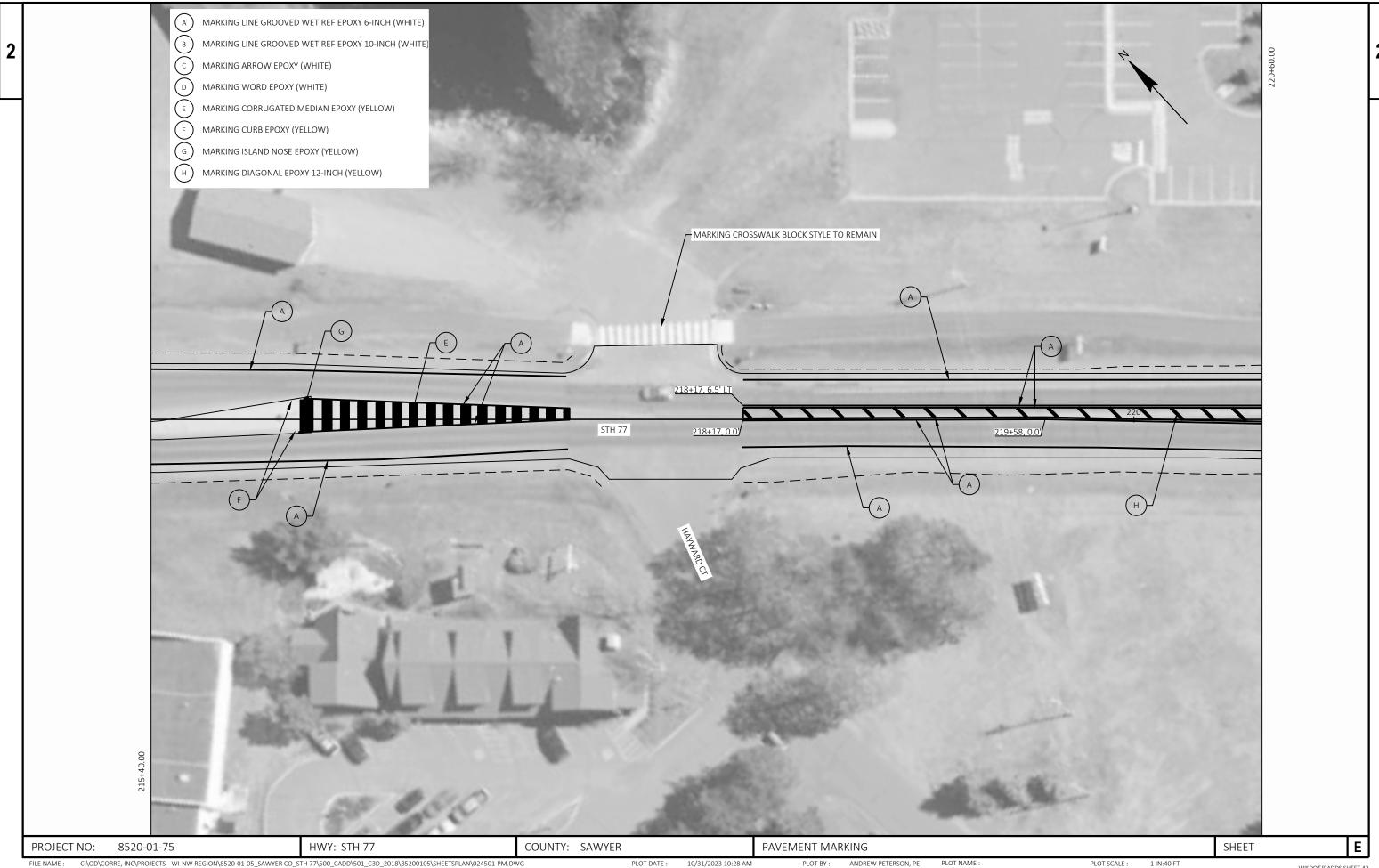
HWY: STH 77 PROJECT NO: 8520-01-75 COUNTY: SAWYER CONSTRUCTION DETAILS SHEET FILE NAME : 7/24/2023 8:46 AM PLOT SCALE :



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PLOT DATE :

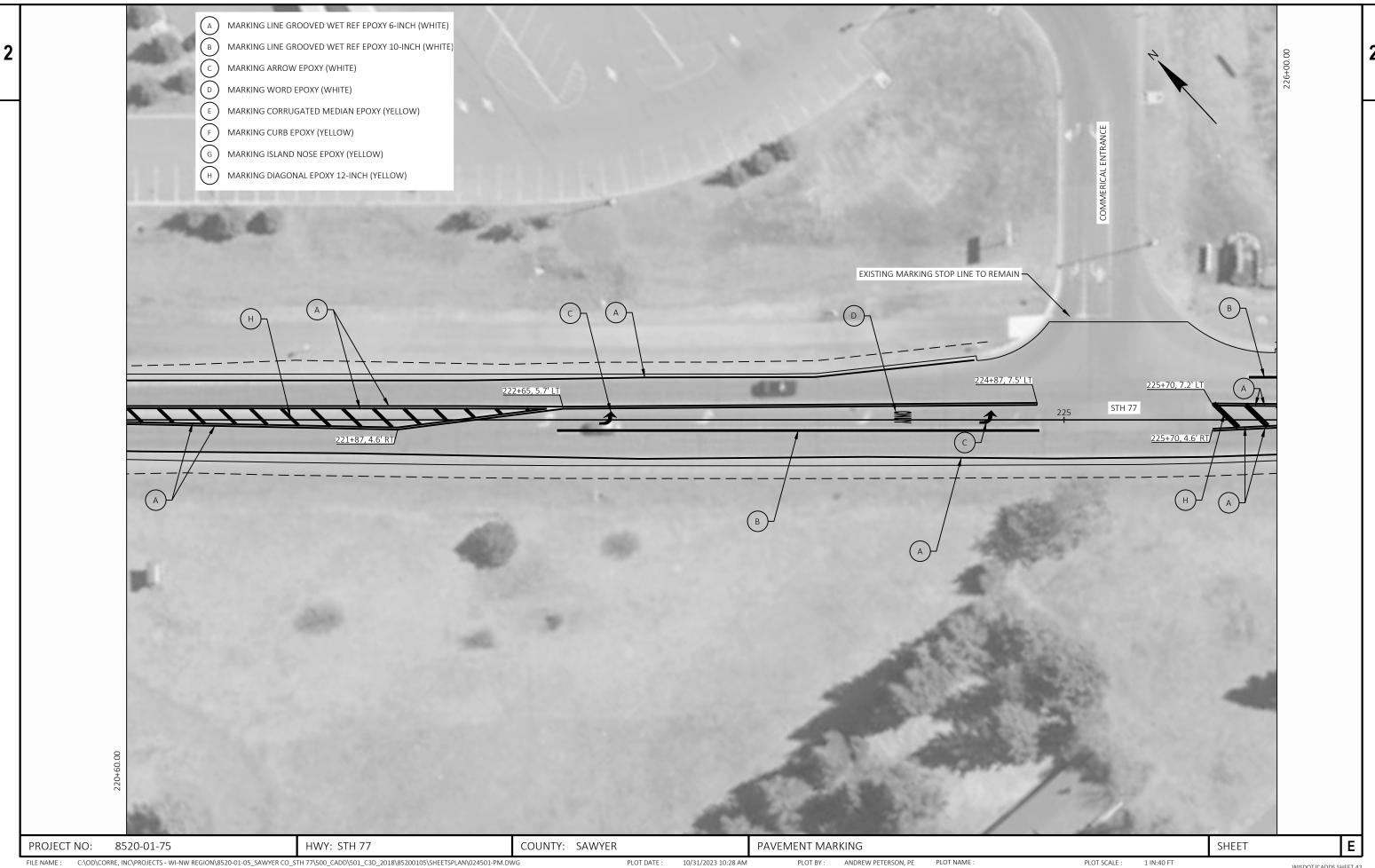
PLOT SCALE :



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PLOT DATE :

PLOT SCALE :





E: C:\OD\CORRE, INC\PROJECTS - WI-NW REGION\8520-01-05_SAWYER CO_STH 77\500_CADD\501_C3D_2018\85200105\SHEETSPLAN\024501-PM.DWG LAYOUT NAME - 04

PLOT DATE : 10/31/2023 10:28 AM

PLOT BY: ANDREW PETERSON, PE PLOT NAME:

PLOT SCALE : 1 IN:4

WISDOT/CADDS SHEET 42

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					8520-01-75	
Line	Item	Item Description	Unit	Total	Qty	
0002	204.0110	Removing Asphaltic Surface	SY	154.000	154.000	
0004	204.0115	Removing Asphaltic Surface Butt Joints	SY	2,083.000	2,083.000	
0006	204.0120	Removing Asphaltic Surface Milling	SY	116,736.000	116,736.000	
8000	204.0150	Removing Curb & Gutter	LF	161.000	161.000	
0010	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 8520-01-75	EACH	1.000	1.000	
0012	213.0100	Finishing Roadway (project) 01. 8520-01-75	EACH	1.000	1.000	
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,000.000	2,000.000	
0016	455.0605	Tack Coat	GAL	13,768.000	13,768.000	
0018	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	1.000	1.000	
0020	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	2.000	2.000	
0022	460.2005	Incentive Density PWL HMA Pavement	DOL	15,200.000	15,200.000	
0024	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	13,660.000	13,660.000	
0026	460.2010	Incentive Air Voids HMA Pavement	DOL	20,950.000	20,950.000	
0028	460.6645	HMA Pavement 5 MT 58-34 V	TON	20,947.000	20,947.000	
0030	460.9000.S	Material Transfer Vehicle	EACH	1.000	1.000	
0032	465.0105	Asphaltic Surface	TON	750.000	750.000	
0034	465.0110	Asphaltic Surface Patching	TON	200.000	200.000	
0036	465.0560	Asphaltic Rumble Strips, Centerline	LF	20,085.000	20,085.000	
0038	520.8700	Cleaning Culvert Pipes	EACH	2.000	2.000	
0040		Culvert Pipe Liners (size) 01. 24-Inch	LF	142.000	142.000	
0042		Culvert Pipe Liners (size) 02. 30-Inch	LF	87.000	87.000	
0044		Cleaning Culvert Pipes for Liner Verification	EACH	3.000	3.000	
0046	521.1024	Apron Endwalls for Culvert Pipe Steel 24-Inch	EACH	5.000	5.000	
0048	521.1030	Apron Endwalls for Culvert Pipe Steel 30-Inch	EACH	2.000	2.000	
0050	525.0324	Apron Endwalls for Culvert Pipe Aluminum 24-Inch	EACH	2.000	2.000	
0052	525.0342	Apron Endwalls for Culvert Pipe Aluminum 42-Inch	EACH	2.000	2.000	
0054	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	126.000	126.000	
0056	606.0200	Riprap Medium	CY	18.000	18.000	
0058	614.0400	Adjusting Steel Plate Beam Guard	LF	452.000	452.000	
0060	618.0100	Maintenance and Repair of Haul Roads (project) 01. 8520-01-75	EACH	1.000	1.000	
0062	619.1000	Mobilization	EACH	1.000	1.000	
0064	624.0100	Water	MGAL	30.000	30.000	
0066	625.0500	Salvaged Topsoil	SY	666.000	666.000	
0068	628.2004	Erosion Mat Class I Type B	SY	666.000	666.000	
0070	628.7555	Culvert Pipe Checks	EACH	33.000	33.000	
0072	629.0210	Fertilizer Type B	CWT	1.400	1.400	
0074	630.0120	Seeding Mixture No. 20	LB	19.000	19.000	
0076	633.5200	Markers Culvert End	EACH	18.000	18.000	
0078	642.5001	Field Office Type B	EACH	1.000	1.000	
0800	643.0300	Traffic Control Drums	DAY	450.000	450.000	
0082	643.0900	Traffic Control Signs	DAY	2,385.000	2,385.000	
0084	643.3165	Temporary Marking Line Paint 6-Inch	LF	65,000.000	65,000.000	
0086	643.3170	Temporary Marking Line F ank o men	LF	29,900.000	29,900.000	
0088	643.5000	Traffic Control	EACH	1.000	1.000	
0090	645.0120	Geotextile Type HR	SY	48.000	48.000	
0092	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	108,100.000	108,100.000	
0094	646.4040	Marking Line Grooved Wet Ref Epoxy 10-Inch	LF	770.000	770.000	
0096	646.5020	Marking Arrow Epoxy	EACH	10.000	10.000	
0098	646.5120	Marking Word Epoxy	EACH	2.000	2.000	
0100	646.7120	Marking Diagonal Epoxy 12-Inch	LF	380.000	380.000	
0100	0-10.7 120	maning Diagonal Epoxy 12 mon	LI	000.000	000.000	

11/01/2023 07:36:05

Estimate Of Quantities

852	\cap	1_75
002	0-0	1-10

Line	Item	Item Description	Unit	Total	Qty
0102	646.8020	Marking Corrugated Median Epoxy	SF	670.000	670.000
0104	646.8120	Marking Curb Epoxy	LF	25.000	25.000
0106	646.8220	Marking Island Nose Epoxy	EACH	3.000	3.000
0108	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	126.000	126.000
0110	650.8000	Construction Staking Resurfacing Reference	LF	30,095.000	30,095.000
0112	650.9911	Construction Staking Supplemental Control (project) 01. 8520-01-75	EACH	1.000	1.000
0114	690.0150	Sawing Asphalt	LF	2,708.000	2,708.000
0116	690.0250	Sawing Concrete	LF	5.000	5.000
0118	740.0440	Incentive IRI Ride	DOL	24,700.000	24,700.000
0120	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	800.000	800.000
0122	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
0124	SPV.0060	Special 01. Resetting Pipe Ends	EACH	1.000	1.000
0126	SPV.0060	Special 02. Inlet Covers Type Special	EACH	1.000	1.000
0128	SPV.0180	Special 01. Ditch Cleaning	SY	490.000	490.000

Page

REMARKS

MISCELLANEOUS REPAIRS

DRIVEWAYS

SHEET

Ε

WISDOT/CADDS SHEET 42

COUNTY: SAWYER C:\OD\CORRE, INC\PROJECTS - WI-NW REGION\8520-01-05_SAWYER CO_STH 77\500_CADD\501_C3D_2018\85200105\SHEETSPLAN\030201-MQ.DWG PLOT DATE : PLOT BY: ANDREW PETERSON, PE PLOT SCALE : FILE NAME : 7/24/2023 8:46 AM

MISCELLANEOUS QUANTITIES

8520-01-75

HWY: STH 77

PROJECT NO:

STATION TO STA	ation i	LOCATION	465.0105 ASPHALTIC SURFACE TON	465.0110 ASPHALTIC SURFACE PATCHING TON		REMARKS			<u>_ST</u>	ation to sta [*]	tion location	465.0560 ASPHALTIC RUMBLE STRIPS, CENTERLINE LF	<u>. s</u>	STATION TO ST	ATION LC	102 & 11	601.0411 NCRETE CURB GUTTER 30- NCH TYPE D LE	REMARKS
269+00 - 270 - -		RT PROJECT PROJECT	- 750 -	4 - 200	REPLACE CURB ASPHALTIC BAS POT HOLES/RAI	E PATCH PART	IAL DEPTH		28 29	75+50 - 278 32+83 - 292 96+35 - 301 05+60 - 311	+35 CL +60 CL	333 952 525 637		269+00 - 27		RT	126	REPLACE CURB & GUTTER
			750	200	•				33 33 34	19+16 - 320 24+88 - 388 92+59 - 409 13+62 - 465 59+80 - 512	+88 CL +59 CL +14 CL +80 CL	172 6,371 1,655 5,218 4,222						
		606.0 RIPR. MEDII	AP GEOT JM TYP	E HR			SPV.0060.02 SPECIAL (02.					ADJU STEEL	0400 STING PLATE		STATION 239+95 257+05	LOCATION RT RT	628.755 CULVERT F CHECKS EACH 4	IPE
303+95 304+30	LT RT	9 9	2 2		STATION 269+42	LOCATION RT	INLET COVERS TYPE SPECIAL EACH			STATION TO 265+14 - 265+15 -	266+29	CATION I	GUARD _F 15 14		291+39 304+28 391+50 410+28	LT RT RT RT UNDISTRIBUTE	4 6 4 4	
		18	4	8	203142	TOTAL 0010	1	-		267+84 <i>-</i> 267+84 <i>-</i>	268+74 269+17	RT 1	00 33 			TOTAL 0010		
						STATION TO) STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	628.2004 EROSION MAT CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0120	SPV.0180.01 RE SPECIAL (01. DITCH CLEANING) SY	1				
						239+80 - 239+90 - 256+95 - 291+05 - 291+25 -	240+15 257+20 291+30	RT LT RT RT LT	30 30 30 30 30	30 30 30 30 30	0.1 0.1 0.1 0.1 0.1	1 1 1 1	30 30 30 30 30					
						295+32 - 304+15 - 390+90 - 410+05 - 410+05 -	295+71 304+40 391+60 410+65 410+65	LT/RT LT/RT LT/RT LT/RT LT RT UNDISTRIBUTED	18 39 179 70 70	18 39 179 70 70 140	0.1 0.1 0.2 0.1 0.1 0.3	1 1 4 2 2	30 170 70 70	_				
							·		666	666	1.4	19	490	_				

SHEET Ε HWY: STH 77 PROJECT NO: 8520-01-75 COUNTY: SAWYER MISCELLANEOUS QUANTITIES FILE NAME : C:\OD\CORRE, INC\PROJECTS - WI-NW REGION\8520-01-05_SAWYER CO_STH 77\500_CADD\501_C3D_2018\85200105\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 02 PLOT BY: ANDREW PETERSON, PE PLOT NAME: PLOT DATE : 7/24/2023 8:46 AM PLOT SCALE : 1" = 1'

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		520.8700	520.9700.S.01	520.9700.S.02	520.9750.S	521.1024	521.1030	525.0324 APRON	525.0342 APRON	633.5200	SPV.0060.01
					CLEANING	APRON	APRON	ENDWALLS FOR	ENDWALLS FOR		
			CULVERT PIPE	CULVERT PIPE	CULVERT PIPES	ENDWALLS FOR	ENDWALLS FOR	CULVERT PIPE	CULVERT PIPE		SPECIAL (01.
		CLEANING	LINERS (SIZE) (01.	LINERS (SIZE) (02.	FOR LINER	CULVERT PIPE	CULVERT PIPE	ALUMINUM 24-	ALUMINUM 42-	MARKERS	RESETTING PIPE
		CULVERT PIPES	24-INCH)	30-INCH)	VERIFICATION	STEEL 24-INCH	STEEL 30-INCH	INCH	INCH	CULVERT END	ENDS)
STATION	LOCATION	EACH	LF	LF	EACH	EACH	EACH	EACH	EACH	EACH	EACH
216+02	LT/RT	-	-	•	-	P**	-	~	-	2	PRI.
222+84	ML	1	-	-	-	=	-	-	-	-	-
239+98	LT/RT	1	-	-	-	1	-	-	-	2	-
257+06	LT/RT	-	-	-	-	-	-	-	-	2	-
291+30	LT/RT			-	-		-	2	-	2	<u>-</u>
295+52	LT/RT	**	*	-	~	-	-	~	2	2	-
304+12	LT/RT	-	-	87	1	79	2	w	-	2	1
391+51	LT/RT	-	71	-	1	2	-	-	-	2	-
410+29	LT/RT	-	71	-	1	2	-	-	-	2	-
449+95	LT/RT	-			-	-	-	-	-	2	-
		2	142	87	3	5	2	2		18	

				643.0300 TRAFFIC CONTROL		643.0900	OΙ			
			DURATION	DRUMS	DURATION	SIGNS	02			
LOCATIO	. N.i	DRUMS	DAYS		INS DAYS	DAY	DCA	//ARKS		
LOCATIO	IN	DKOIVIS	DATS	DAT 310	INS DATS	DAI	VEN.	MANN		
PROJEC	Т			- 4	7 45	2,115	ADVANCE WAI	RNING SIGNS		
PROJEC		225	2	450 7	5 2	150	SHOULDER CL	OSURE		
PROJEC			_	- 8		120	MILLED SURFA			
				450		2,385				
				646.4040	646.5020	646.5120	646.7120	646.8020	646.8120	646.8220
				MARKING LINF						
				GROOVED WET			MARKING	MARKING		MARKING
					A A A D KINIC	MARKING			MADWING CURR	
				RFF FPOXY 10-	MARKING	MARKING	DIAGONAL	CORRUGATED	MARKING CURB	ISLAND NOSF
				INCH	ARROW EPOXY	WORD FPOXY	FPOXY 12-INCH	MFDIAN FPOXY	FPOXY	FPOXY
STATION	TO	STATION	LOCATION	LF	FACH	FACH	LF	SF	LF	FACH
211+07	~	229+00	ML	770	10	2	380	670	25	3
				770	10	2	380	670	25	3
						-		5.5		5

PROJECT NO: 8520-01-75 HWY: STH 77 COUNTY: SAWYER SHEET Ε MISCELLANEOUS QUANTITIES PLOT DATE : 7/24/2023 8:46 AM PLOT BY: ANDREW PETERSON, PE PLOT NAME: PLOT SCALE : 1" = 1'

			646.2040	643.3170	643.3165	
			MARKING LINE	TEMPORARY	TEMPORARY	
			GROOVED WET	MARKING	MARKING	
			REF EPOXY 6-	LINE EPOXY 6-	LINE PAINT 6-	
			INCH	INCH	INCH	
STATION TO	NOITATZ C	LOCATION	LF	LF	LF	REMARKS
211+07 -	512+02	CL	19,200	29,900	=	STH 77 YELLOW CENTERLINE
211+07 -	512+02	LT/RT	59,000	=		STH 77 WHITE EDGELINE
218+37 -	512+02	CL	-	-	32,500	MILLED LAYER
218+37 -	512+02	CL	-	-	32,500	LOWER LAYER
275+50 -	512+02	CL	29,900	-		STH 77 AFTER RUMBLES
			108,100	29,900	65,000	

	650.9911.01	650.8000	650.5500			
	CONSTRUCTION STAKING	CONSTRUCTION	CONSTRUCTION			
	SUPPLEMENTAL CONTROL	STAKING	STAKING CURB			
	(PROJECT) (01.8520-01-	RESURFACING	GUTTER AND			
	75)	REFERENCE	CURB & GUTTER			
REMARKS	EACH	LF	LF	LOCATION	STATION	STATION TO
	1	30,095	-	PROJECT	512+02	211+07 -
REPLACE CURB & GUTTER	-	-	126		270+26	269+00 -
-						
	1	30.095	126			

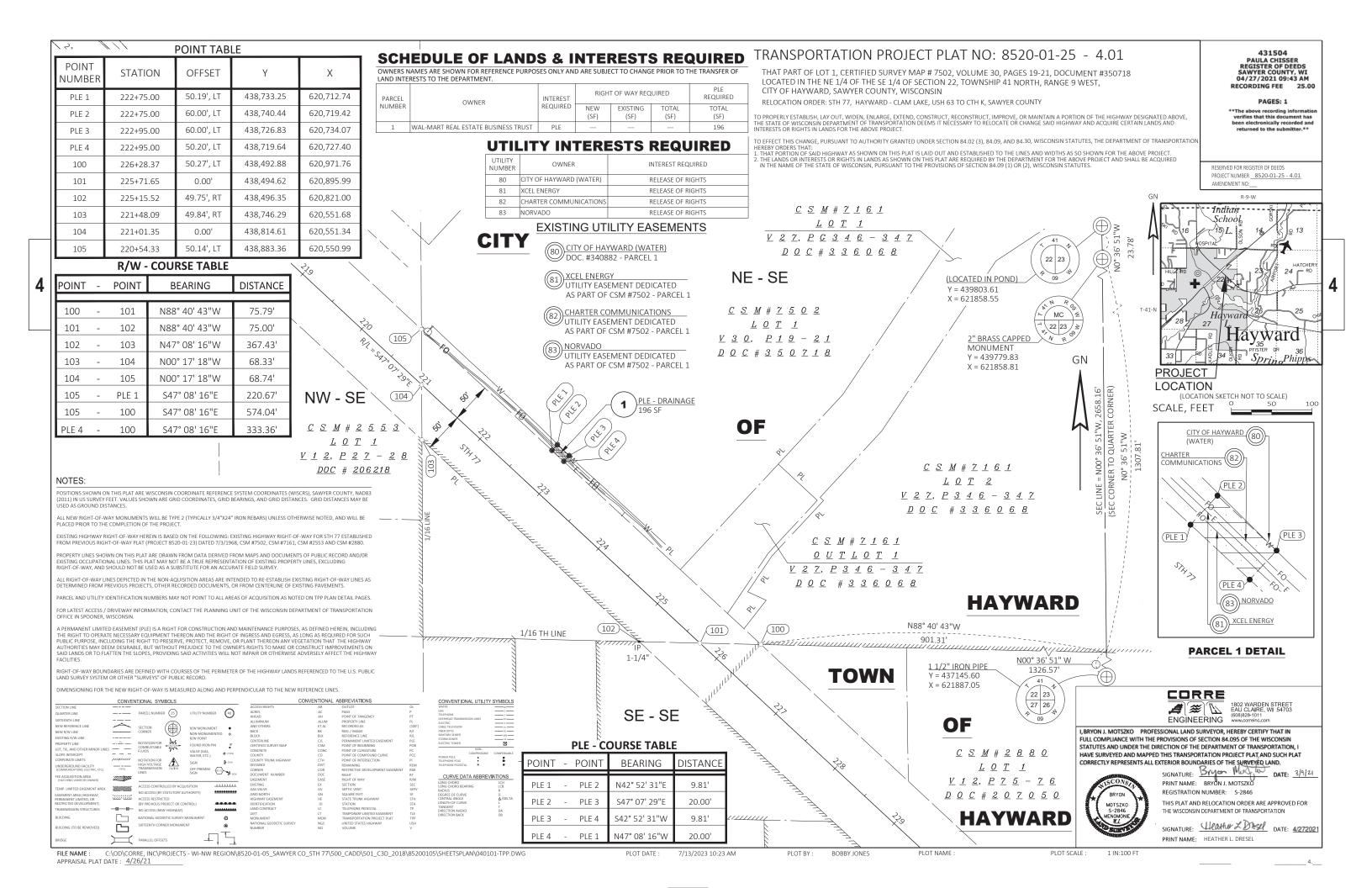
690.0250 SAWING CONCRETE STATION TO STATION LOCATION LF REMARKS 269+00 - 270+26 RT <u>5</u> REPLACE CURB & GUTTER TOTAL 0010 5

				690.0150	
				SAWING	
				ASPHALT	
STATION	TO	STATION	LOCATION	LF	REMARKS
2	211+06			58	
217+32	-	222+37	LT/RT	700	PAVED SHOULDER WIDENING
269+00	-	270+26	RT	130	REPLACE CURB & GUTTER
5	512+02			30	
-			LT/RT	1,310	SIDE ROADS
-			LT/RT	480	DRIVEWAYS
				2,708	

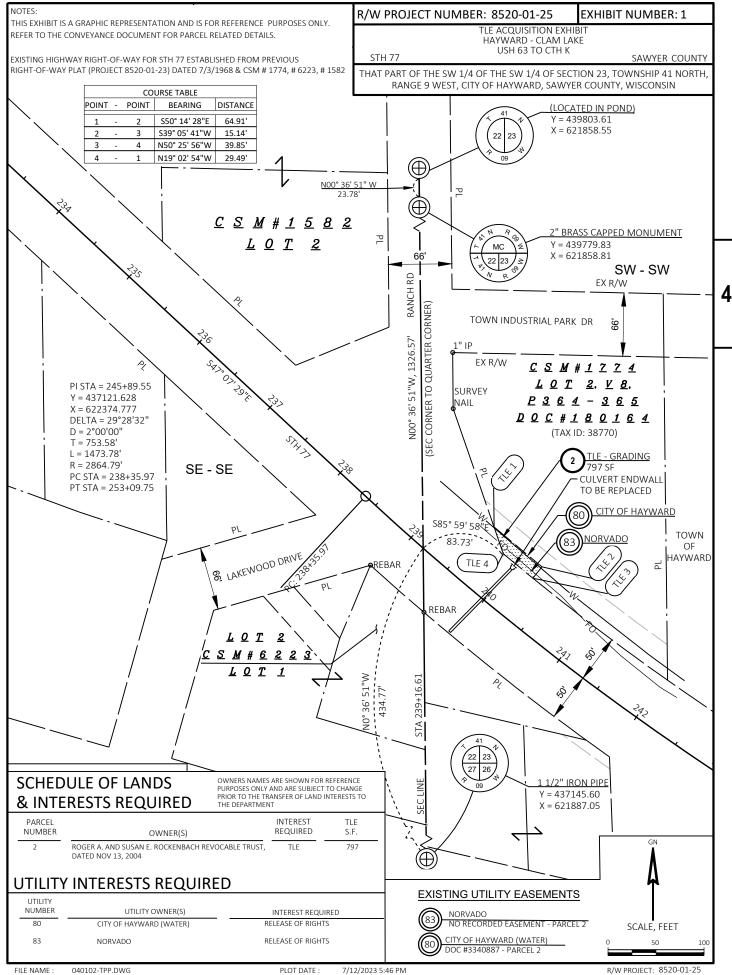
Ε COUNTY: SAWYER SHEET PROJECT NO: 8520-01-75 HWY: STH 77 MISCELLANEOUS QUANTITIES PLOT BY: ANDREW PETERSON, PE PLOT NAME:

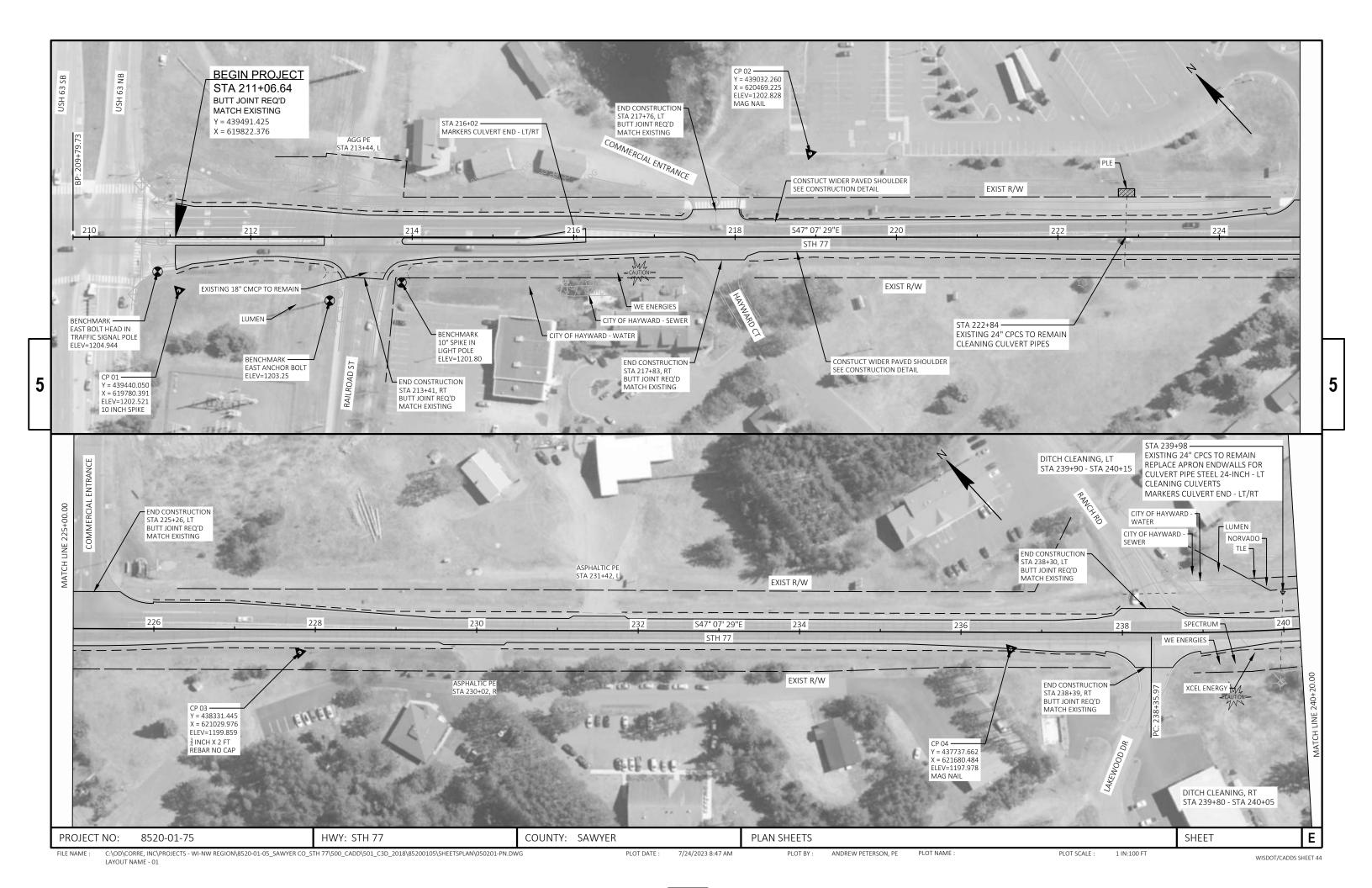
FILE NAME: C:\OD\CORRE, INC\PROJECTS - WI-NW REGION\8520-01-05_SAWYER CO_STH 77\500_CADD\501_C3D_2018\85200105\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 04

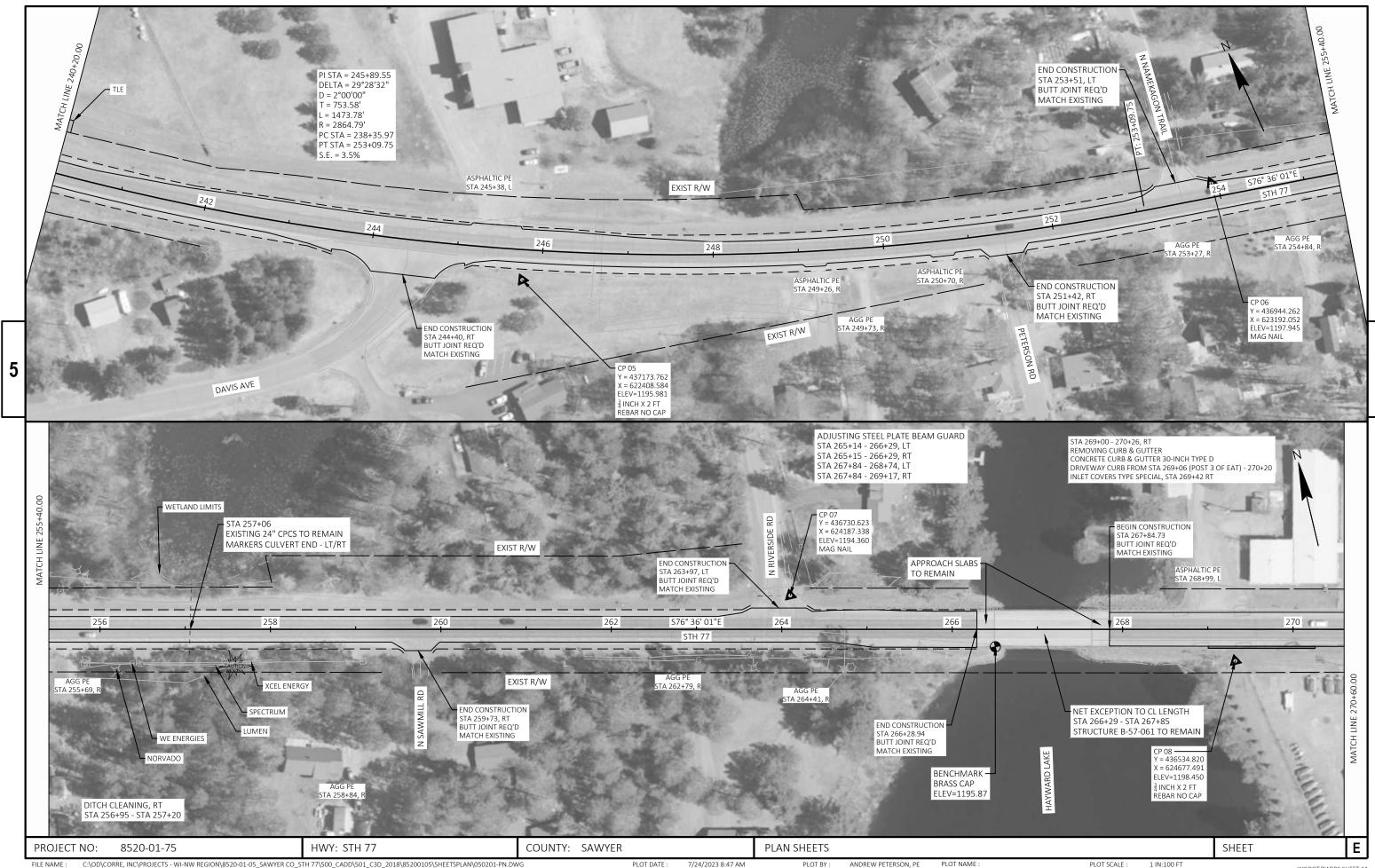
PLOT SCALE : 1" = 1'

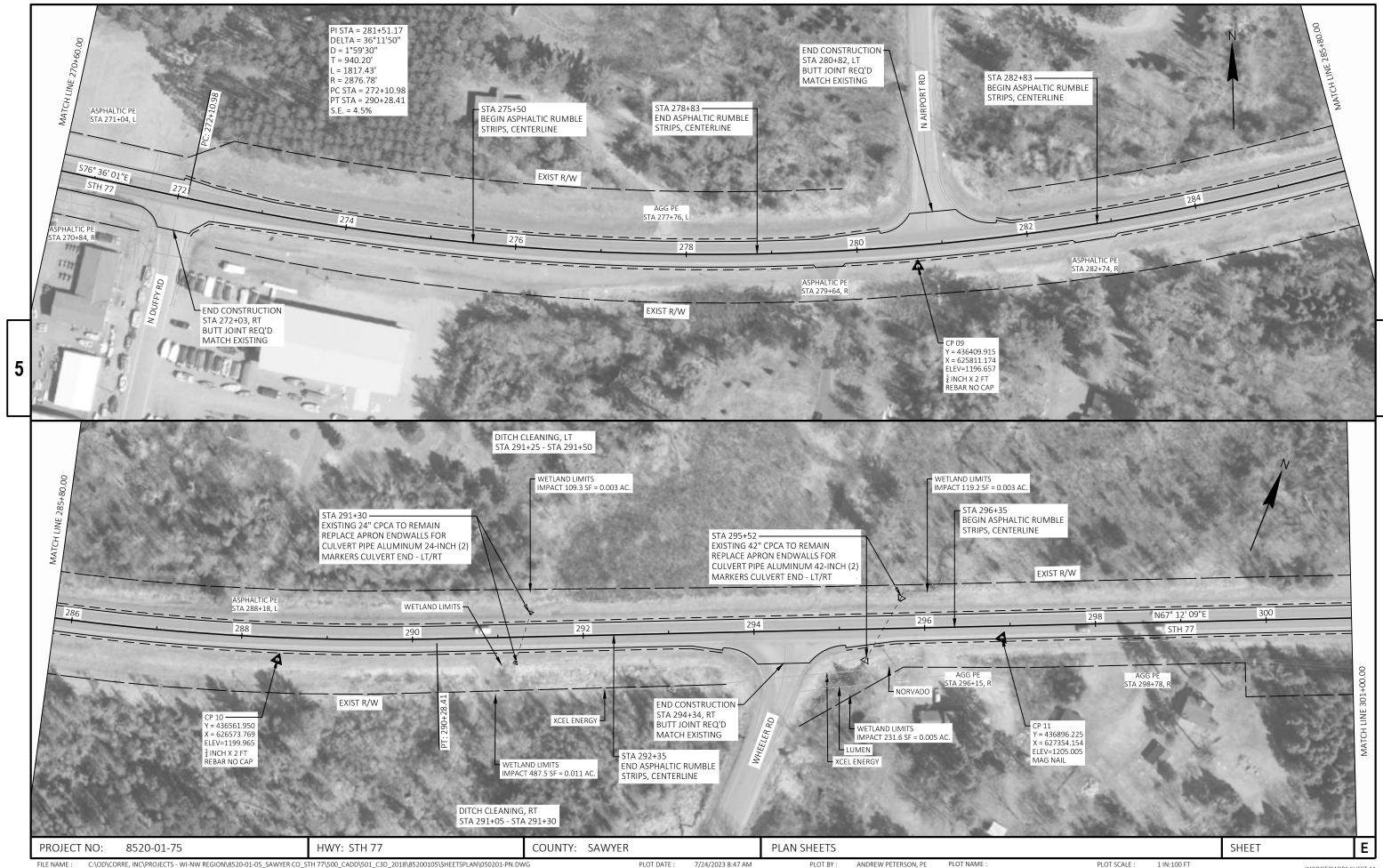


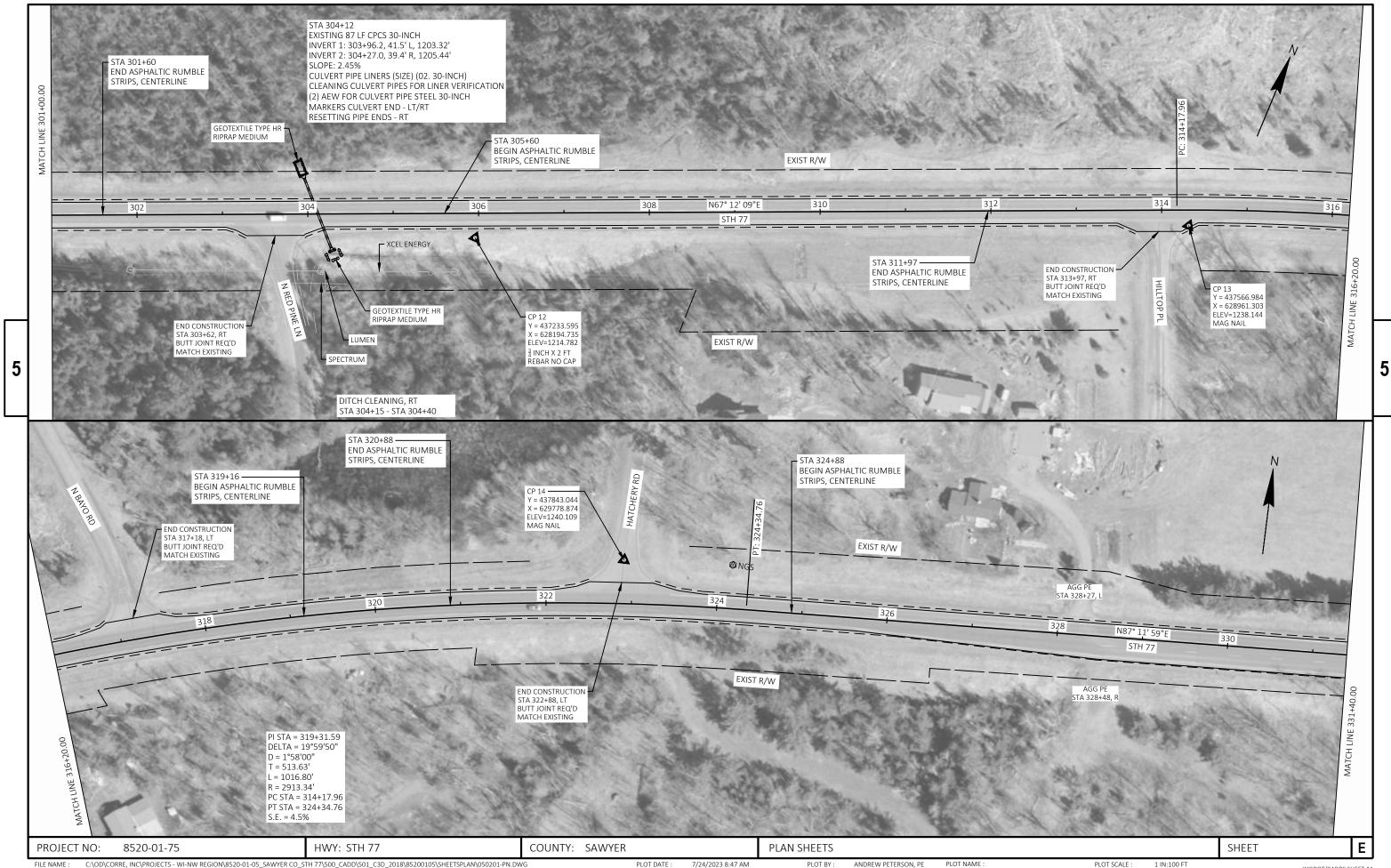
R/W PROJECT: 8520-01-25 PLOT DATE : FILE NAME: 040102-TPP.DWG 7/12/2023 5:46 PM











 ${\tt C:\QD|\CORRE,\INC|\PROJECTS-WI-NW\ REGION|8520-01-05_SAWYER\ CO_STH\ 77\S00_CADD\S01_C3D_2018\S5200105\SHEETSPLAN\S050201-PN.DWG}$

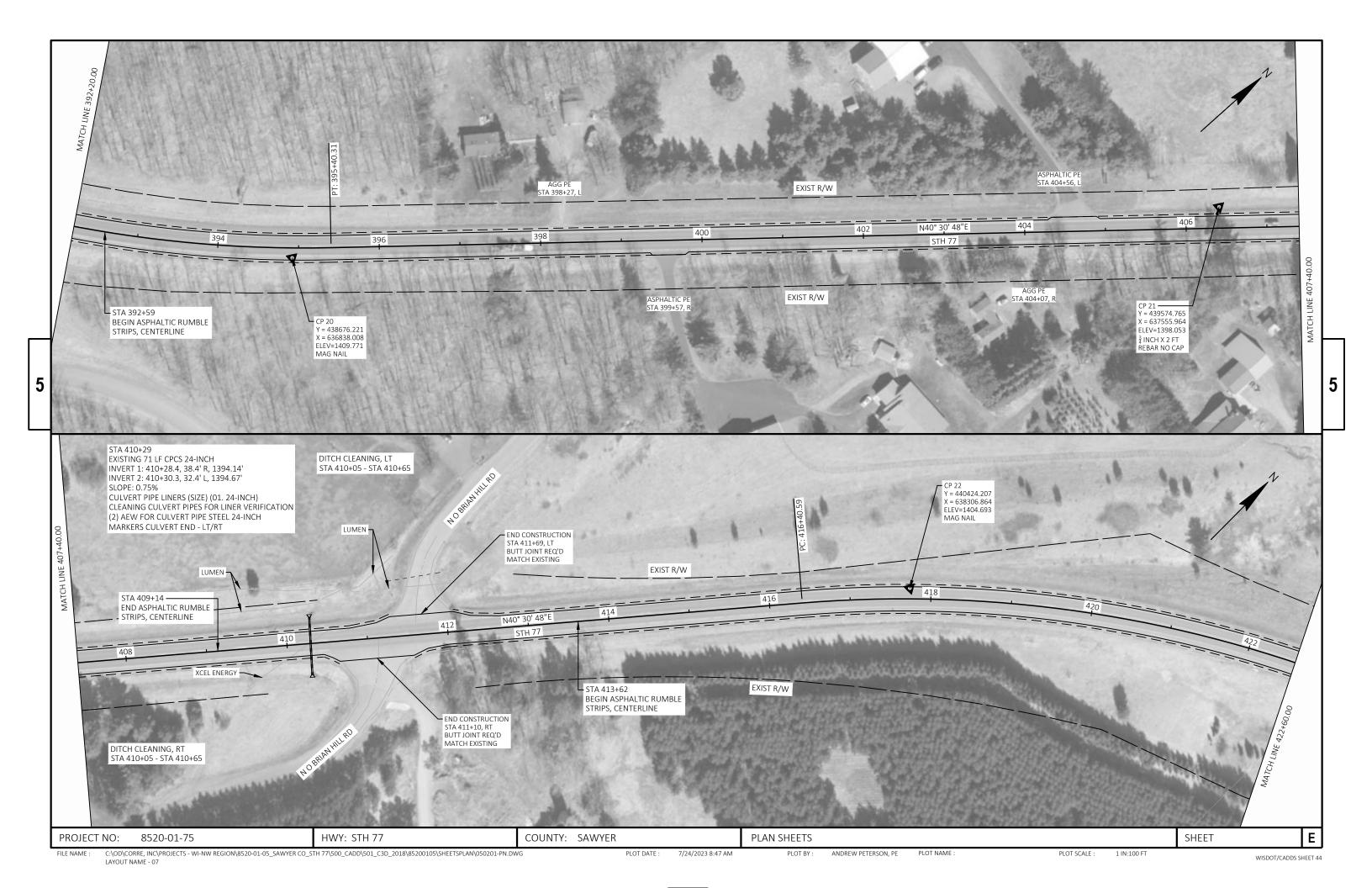
PLOT DATE : 7/24/2023 8:47 AM ANDREW PETERSON, PE

PLOT SCALE :

WISDOT/CADDS SHEET 44







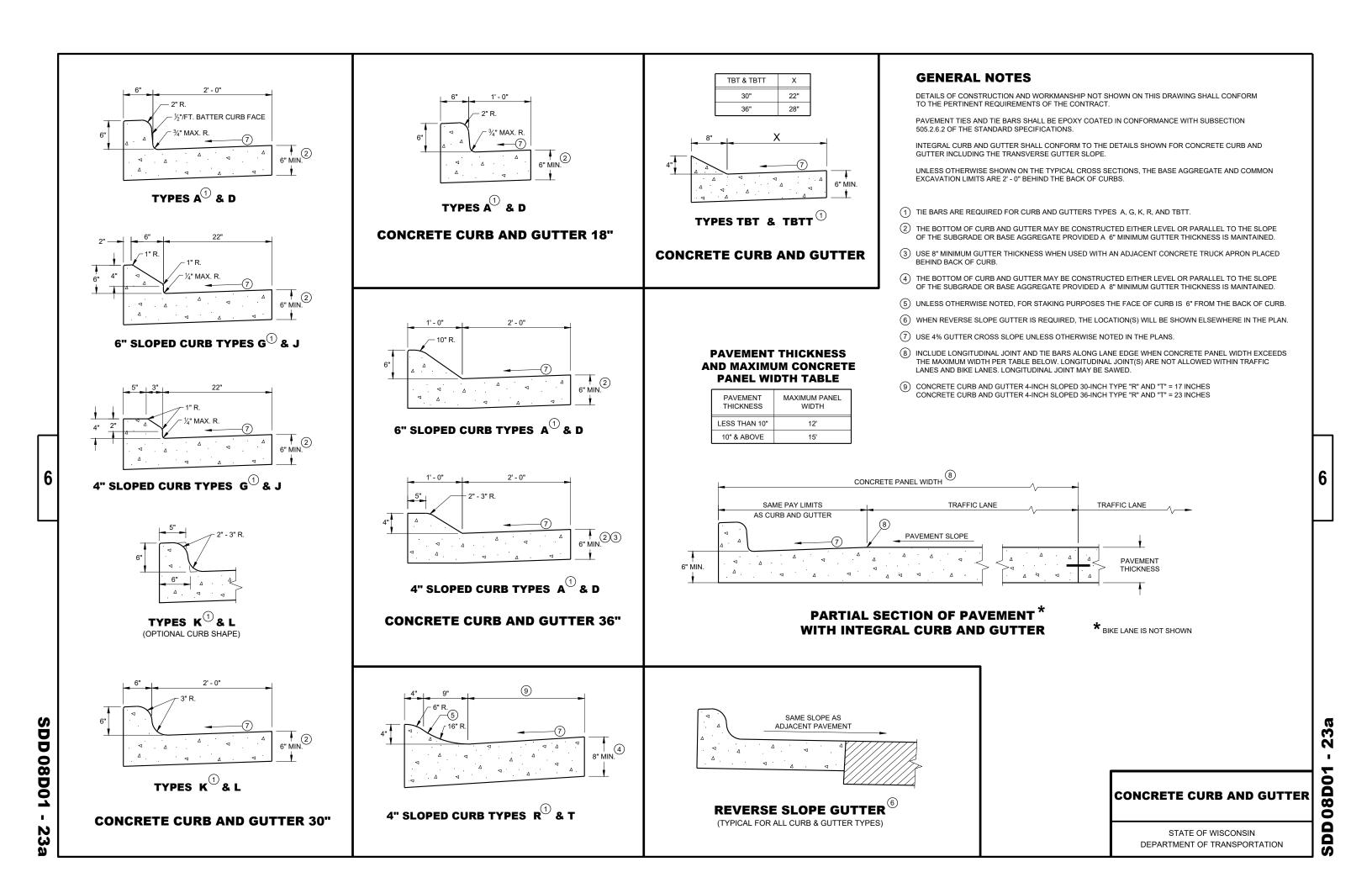


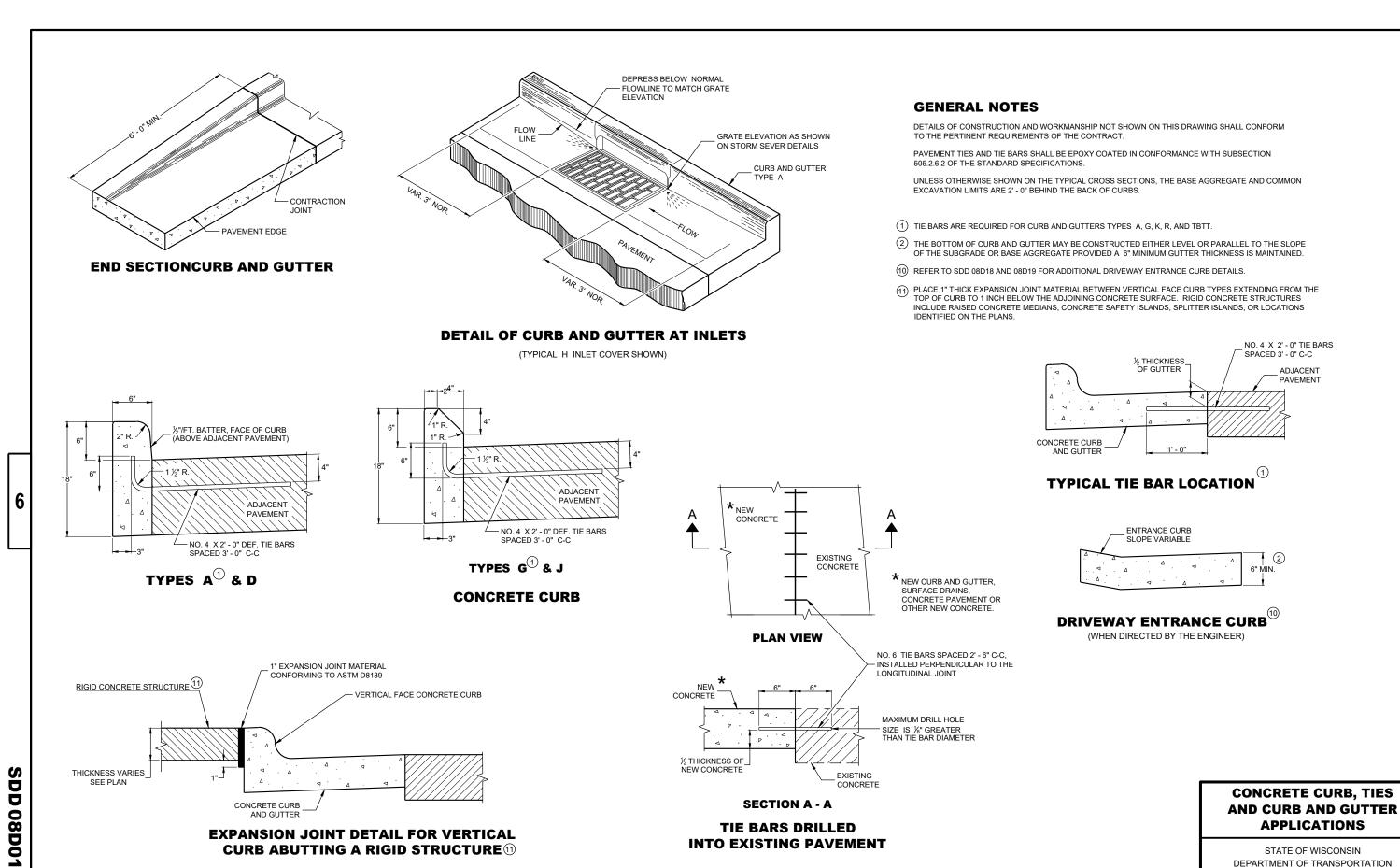




Standard Detail Drawing List

08D01-23A 08D01-23B 08E15-01 08F01-11 08F04-08 13A11-04A 13A11-04D 13C19-03 15A03-02A 15A03-02B 15C02-09F 15C04-05 15C05-05	CONCRETE CURB & GUTTER CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS CULVERT PIPE CHECK APRON ENDWALLS FOR CULVERT PIPE JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL CENTERLINE RUMBLE STRIPS - ASPHALT CENTERLINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAILROADS HMA LONGITUDINAL JOINTS FLEXIBLE MARKER POST FOR CULVERT END FLEXIBLE MARKER POST FOR CULVERT END ADVANCED WIDTH RESTRICTION SIGNING TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-23C	PAVEMENT MARKING (TURN LANES)
15C08-23D	PAVEMENT MARKING (TURN LANES)
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-08A	MEDIAN ISLAND MARKING PAVEMENT MARKINGS
15C18-08B	MEDIAN ISLAND MARKING MEDIAN ISLAND NOSE
15C19-08A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-08B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)
15C35-06B	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-06C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE) TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D28-04 15D44-02	TRAFFIC CONTROL, WORK ON SHOOLDER OR PARKING LANE, UNDIVIDED ROADWAY TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES



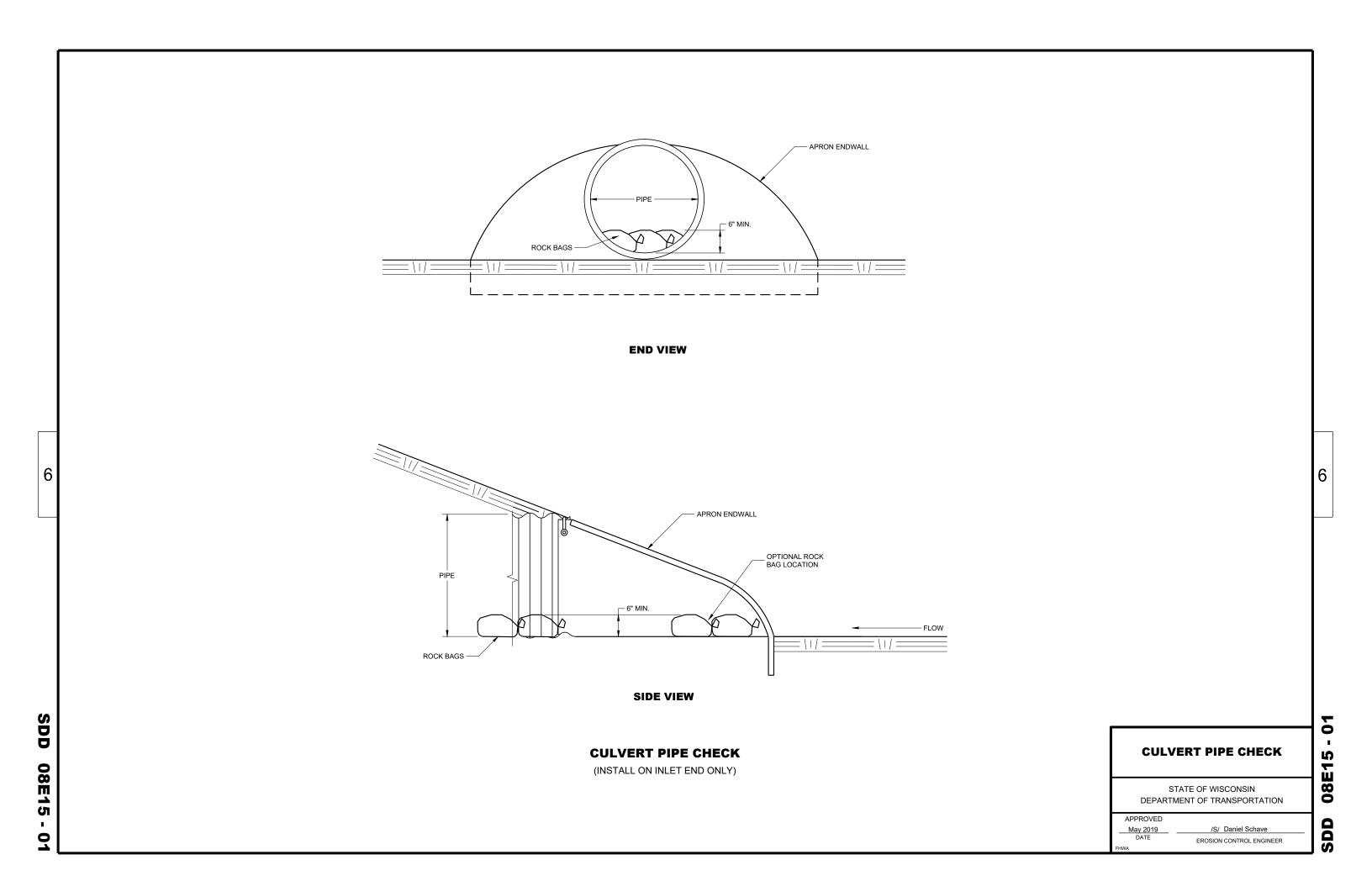


DD 08D01 - 23b

/S/ Rodnery Taylor
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

APPROVED

May 2023
DATE



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END CORNER

1/16" DIA. HOLES FOR

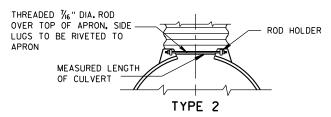
BOLTS OR RIVETS -

12" C-C MAX. SPACING

METAL APRON ENDWALLS											
PIPE MIN. TH		HICK.		DIMENSIONS (Inches)							
DIA. (IN.)	(Inches) STEEL ALUM.		A (±]")	B (MAX.)	H (±]")	L (±1 ½")	L1 (1)	L 2 ①	₩ (±2")	SLOPE	BODY
12	.064	.060	6	6	6	21	12	171/2	24	2½+o 1	1Pc.
15	.064	.060	7	8	6	26	14	213/4	30	21/2+o 1	1 Pc.
18	.064	.060	8	10	6	31	15	281/4	36	$2\frac{1}{2}$ to 1	1Pc.
21	.064	.060	9	12	6	36	18	29%	42	$2\frac{1}{2}$ to 1	1Pc.
24	.064	.075	10	13	6	41	18	371/4	48	2½+o 1	1Pc.
30	.079	.075	12	16	8	51	18	52 ¹ / ₄	60	21/2+0 1	1Pc.
36	.079	.105	14	19	9	60	24	59¾	72	2½+o 1	2 Pc.
42	.109	. 105	16	22	11	69	24	75%	84	21/2+o 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 ¹ / ₄ †o 1	3 Pc.
54	.109	.105	18	30	12	84	30	851/2	102	2 ¹ / ₄ †o 1	3 Pc.
60	.109×	.105×	18	33	12	87	_	_	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	_	_	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	_	_	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	_	_	132	11/2+0 1	3 Pc.
84	.109×	.105×	18	45	12	87	_	_	138	1½+0 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	11/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	ı	ı	150	1½+0 1	3 Pc.

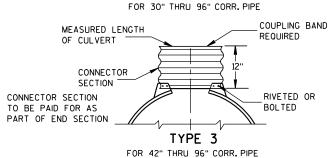
	REINFORCED CONCRETE APRON ENDWALLS								
PIPE		APPROX.							
DIA. (IN.)	T	A	В	С	D	E	G	SLOPE	
12	2	4	24	48 1/8	721/8	24	2	3 to 1	
15	21/4	6	27	46	73	30	21/4	3 to 1	
18	$2\frac{1}{2}$	9	27	46	73	36	21/2	3 to 1	
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1	
24	3	91/2	431/2	30	731/2	48	3	3 to 1	
27	31/4	101/2	$49^{1}/_{2}$	24	731/2	54	31/4	3 to 1	
30	$3\frac{1}{2}$	12	54	193⁄4	731/2	60	31/2	3 to 1	
36	4	15	63	34¾	97¾	72	4	3 to 1	
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1	
48	5	24	72	26	98	84	5	3 to 1	
54	51/2		65	**************************************	98 ¹ /4- 100	90	51/2	2% to 1	
60	6	* ** 30-35	60	39	99	96	5	2 to 1	
66	61/2		* ** 72-78	* * * 21-27	99	102	51/2	2 to 1	
72	7	* ** 24-36	78	21	99	108	6	2 to 1	
78	71/2	* ** 24-36	78	21	99	114	61/2	2 to 1	
84	8	36	901/2	21	1111/2	120	61/2	11/2+0 1	
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1	

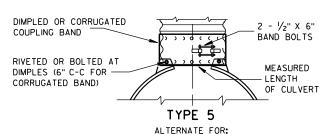
END SECTION CONNECTOR STRAP THREADED 76" DIA. ROD AROUND CULVERT & THROUGH CONNECTOR TANK TYPE CONNECTOR LUG LUG OR ALTERNATE CONNECTOR STRAP (SEE DETAIL) MEASURED LENGTH OF CULVERT



TYPE 1

FOR 12" THRU 24" CORR. PIPE





ALL SIZES CORRUGATED CIRCULAR PIPE

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

> FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

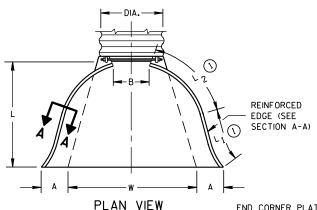
CONNECTION DETAILS

1" WIDE. 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT ALTERNATE FOR TYPE 1 CONNECTION

*MINIMUM **MAXIMUM

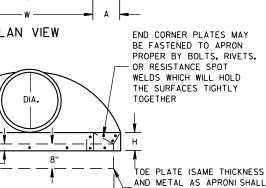
OPTIONAL

DESIGN



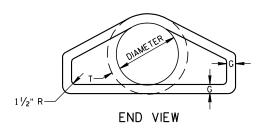
* EXCEPT CENTER PANEL

SEE GENERAL NOTES

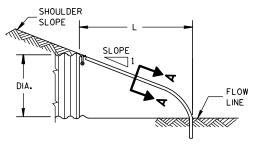


BE FURNISHED WHEN CALLED

FOR ON THE PLANS

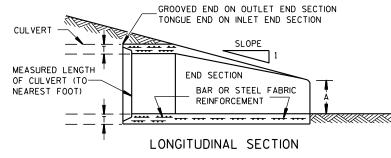


PLAN

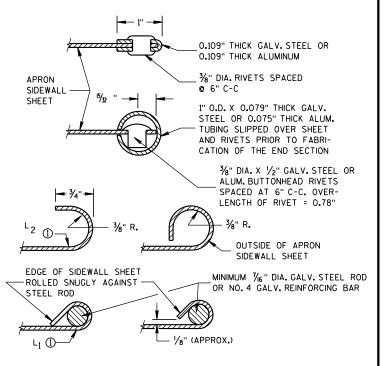


END VIEW





CONCRETE ENDWALLS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA, GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

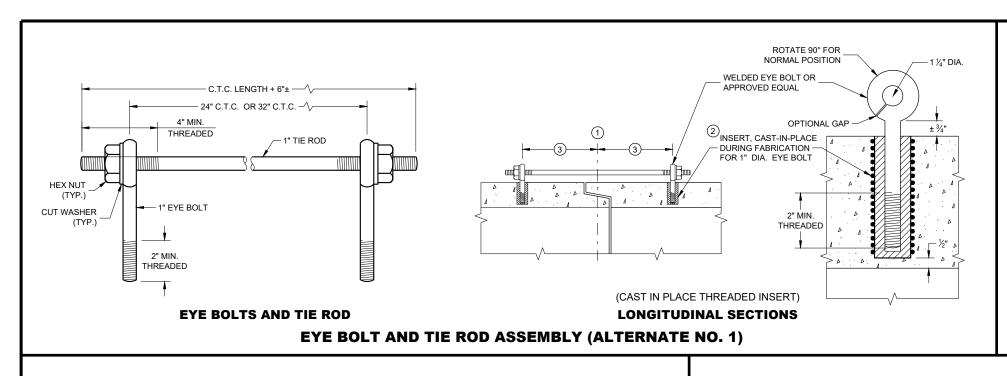
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER



GENERAL NOTES

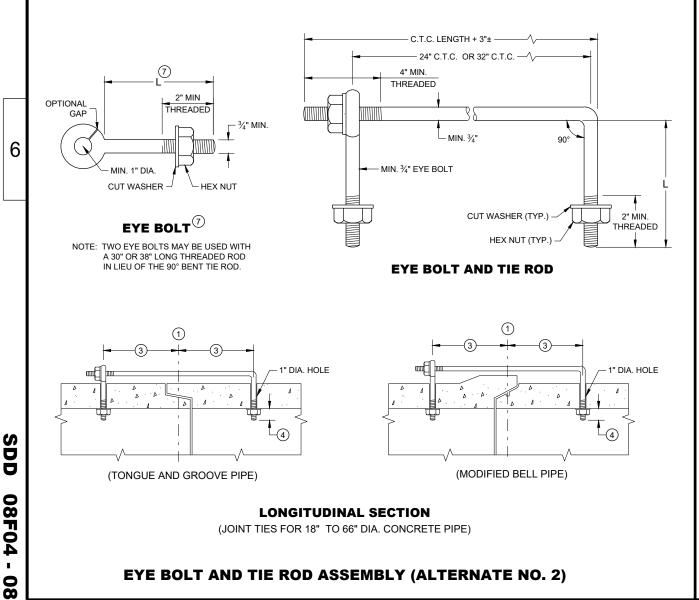
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

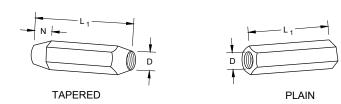
- 1) CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- 2 THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.
- (3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.
- 4 BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.
- 5 OPENING TO BE ROD DIAMETER PLUS 1 INCH.
- 6 LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.
- (7) EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.



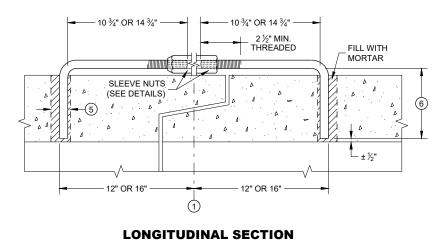
PIPE DIAMETER TIE ROD DIAMETER D L 1 N 12 - 60 5/8 5/8 5 ½ 66 - 84 3/4 3/4 5 ½

ADJUSTABLE TIE ROD TABLE

DIMENSIONS SHOWN ARE IN INCHES

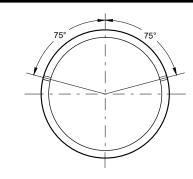


RIGHT AND LEFT THREADS
SLEEVE NUTS



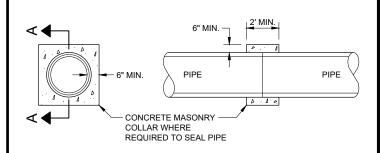
LONGITUDINAL SECTION

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

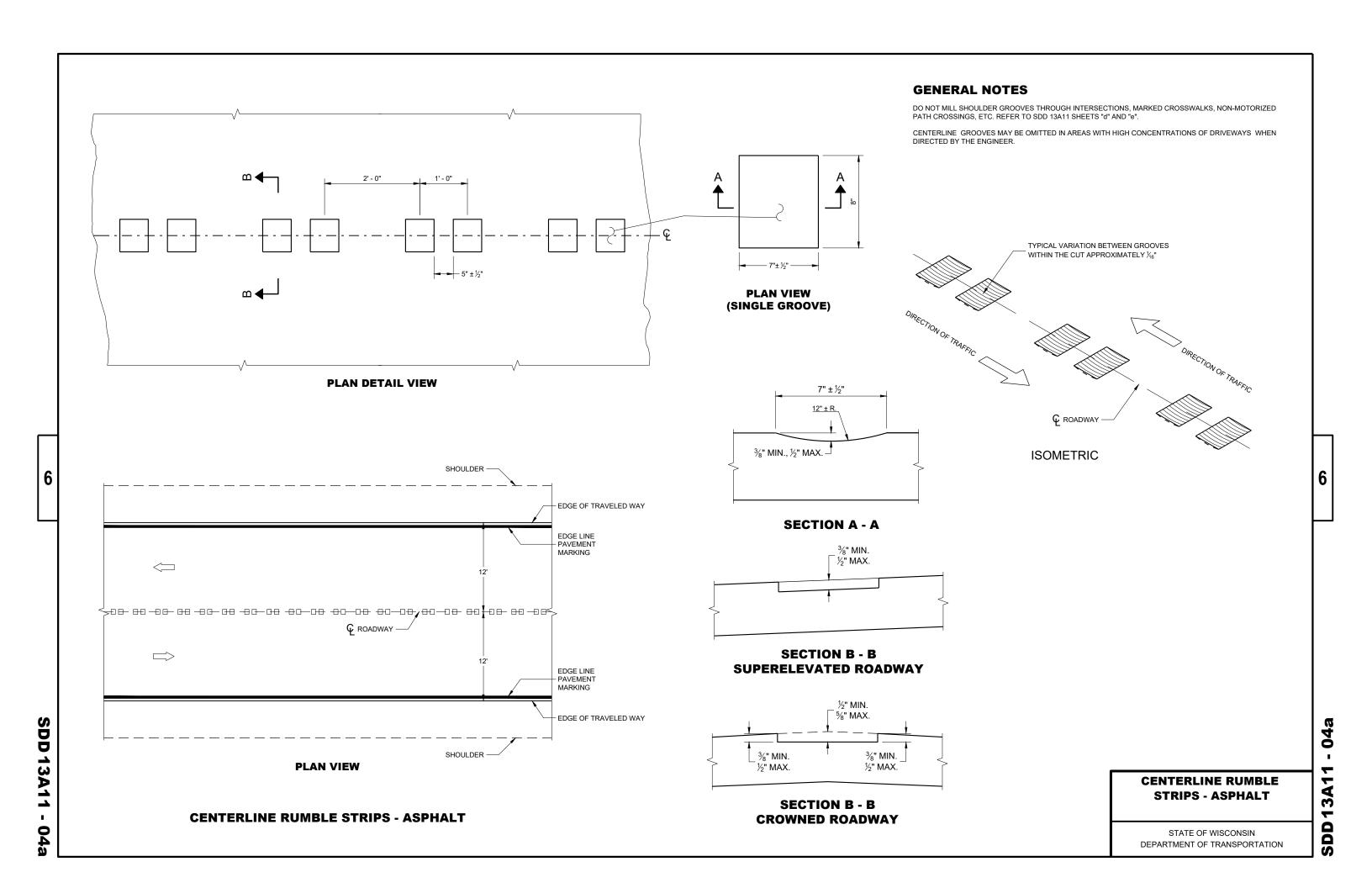
 APPROVED
 /S/ Rodney Taylor

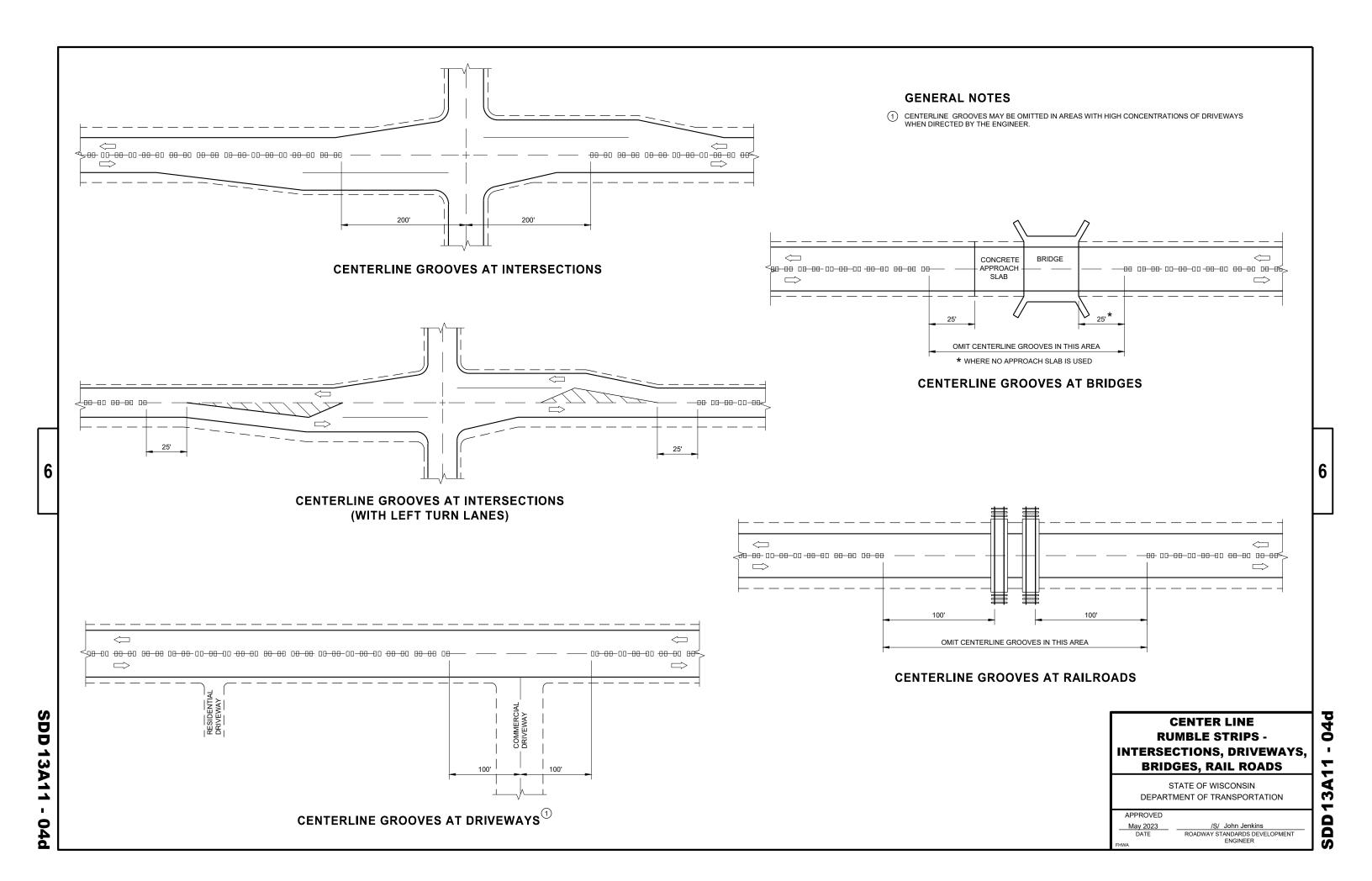
 November 2021
 /S/ Rodney Taylor

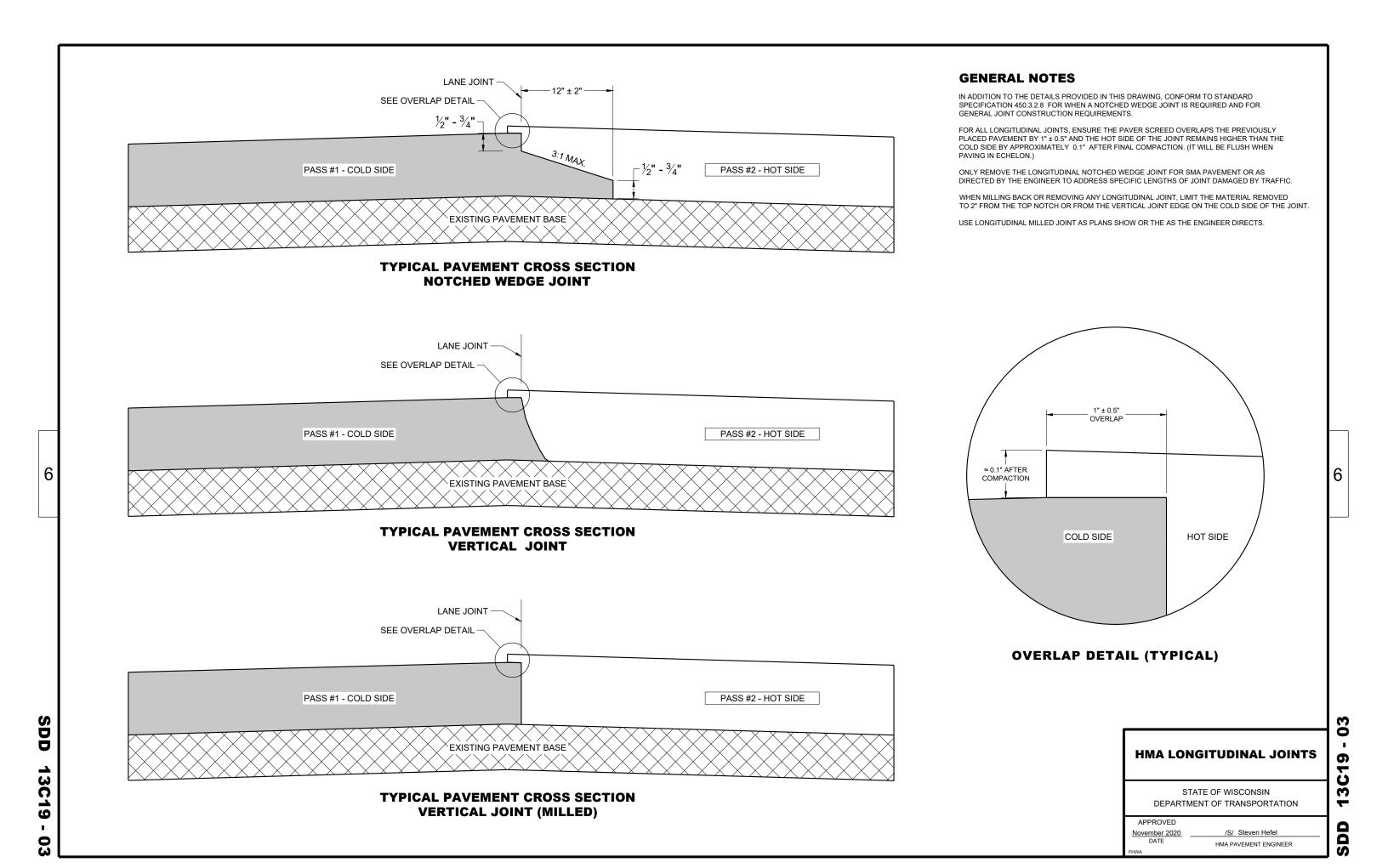
 DATE
 ROADWAY STANDARDS DEVELOPMENT

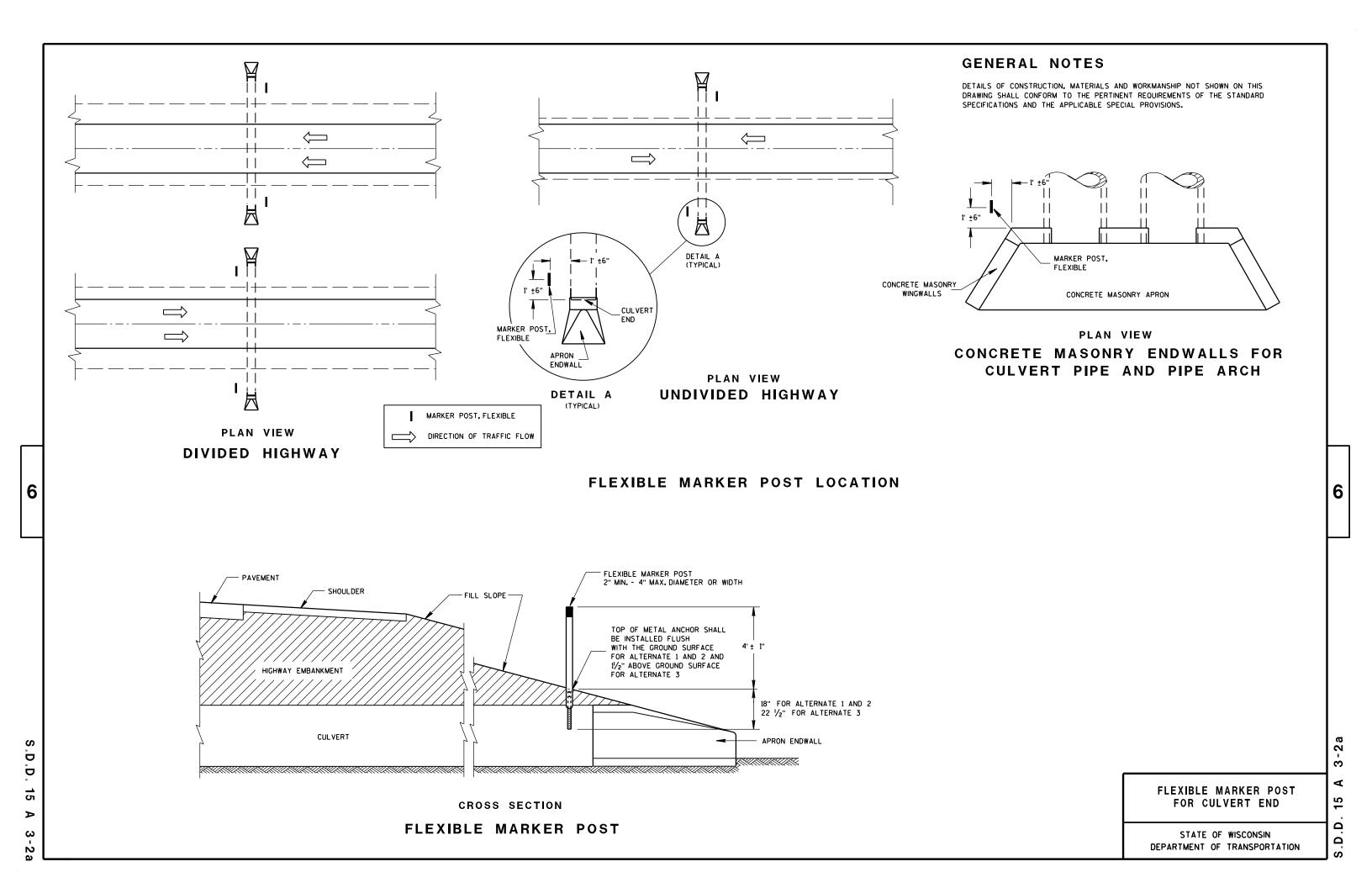
 ENGINEER
 ENGINEER

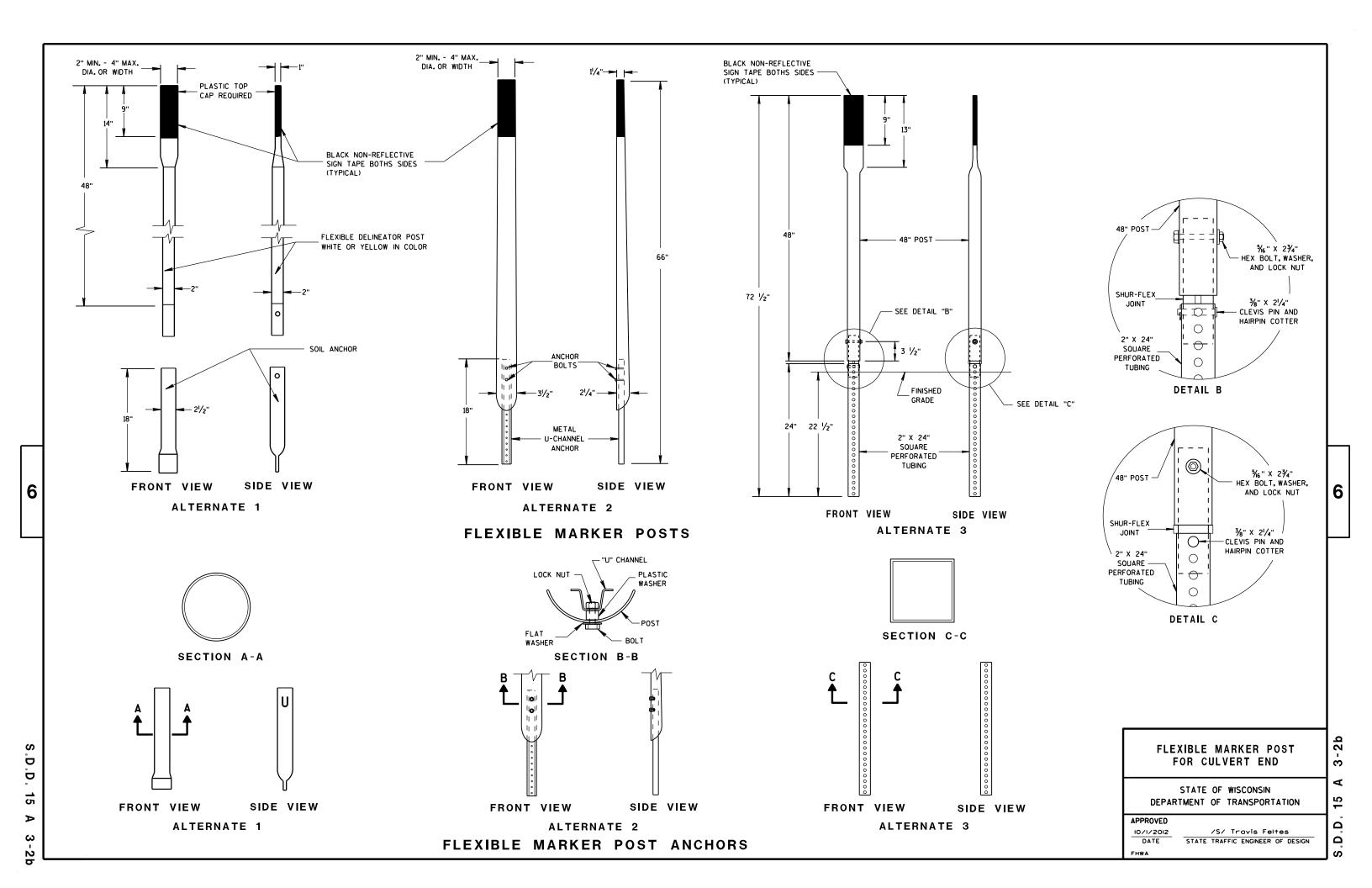
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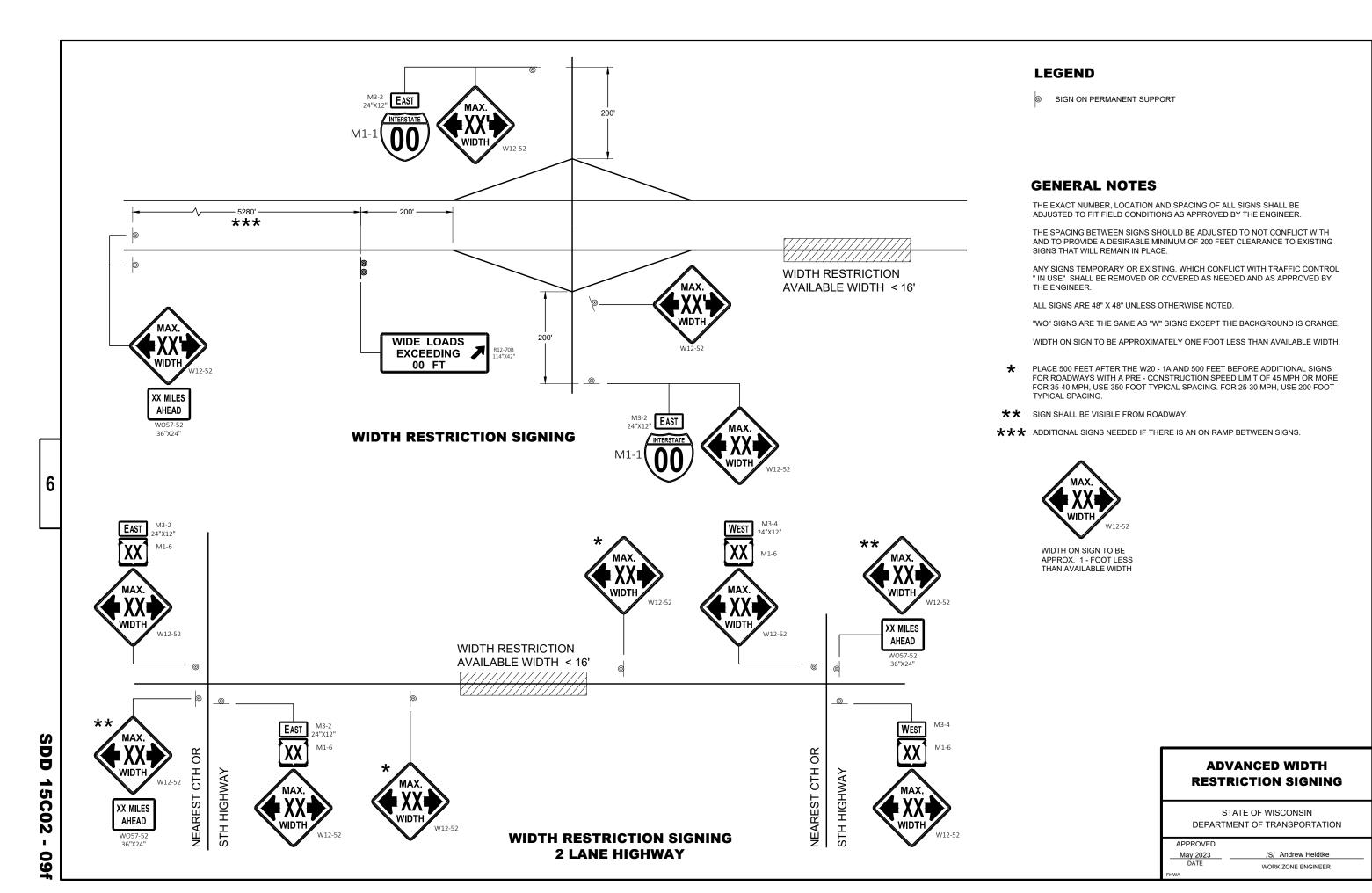


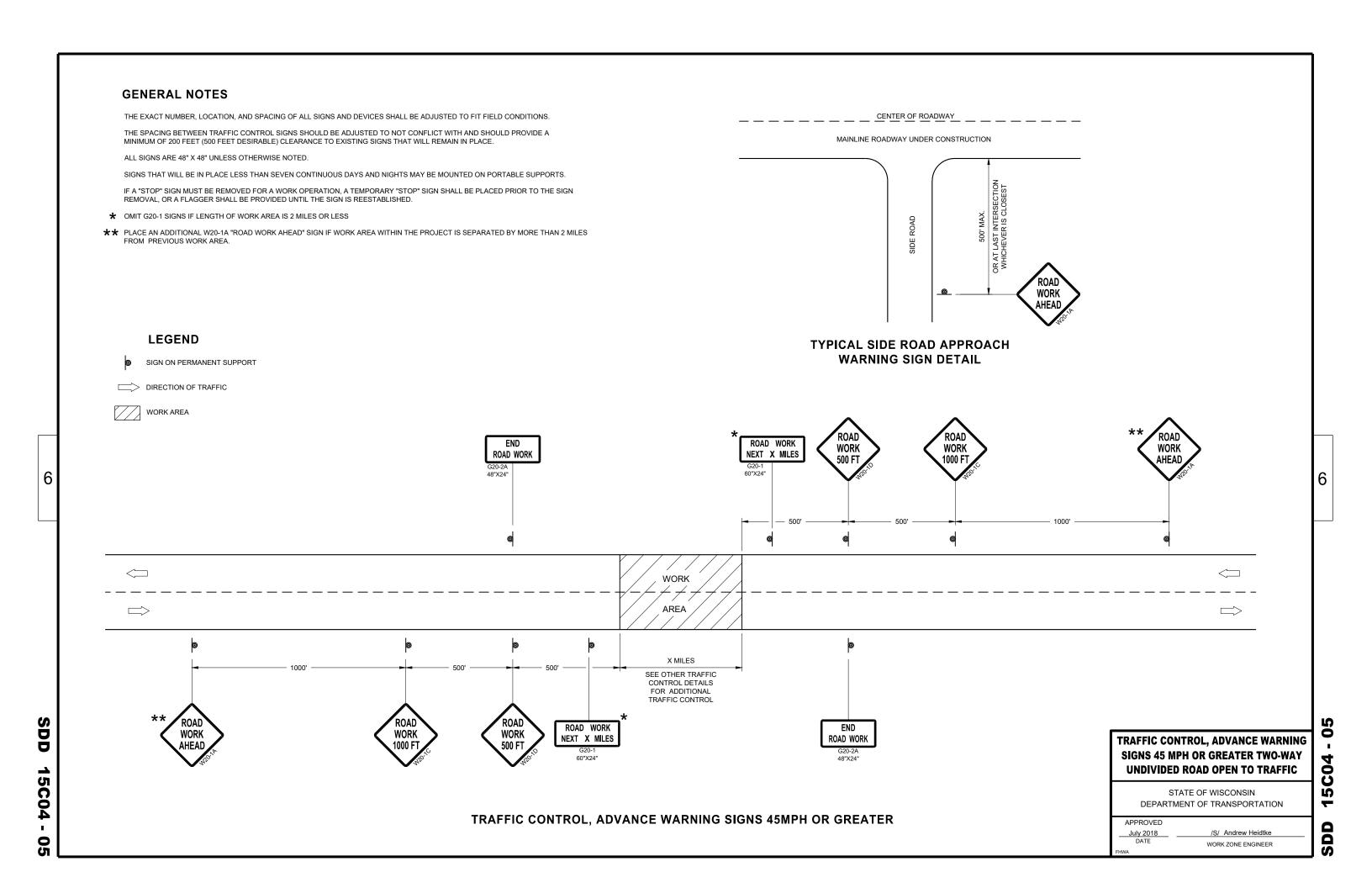


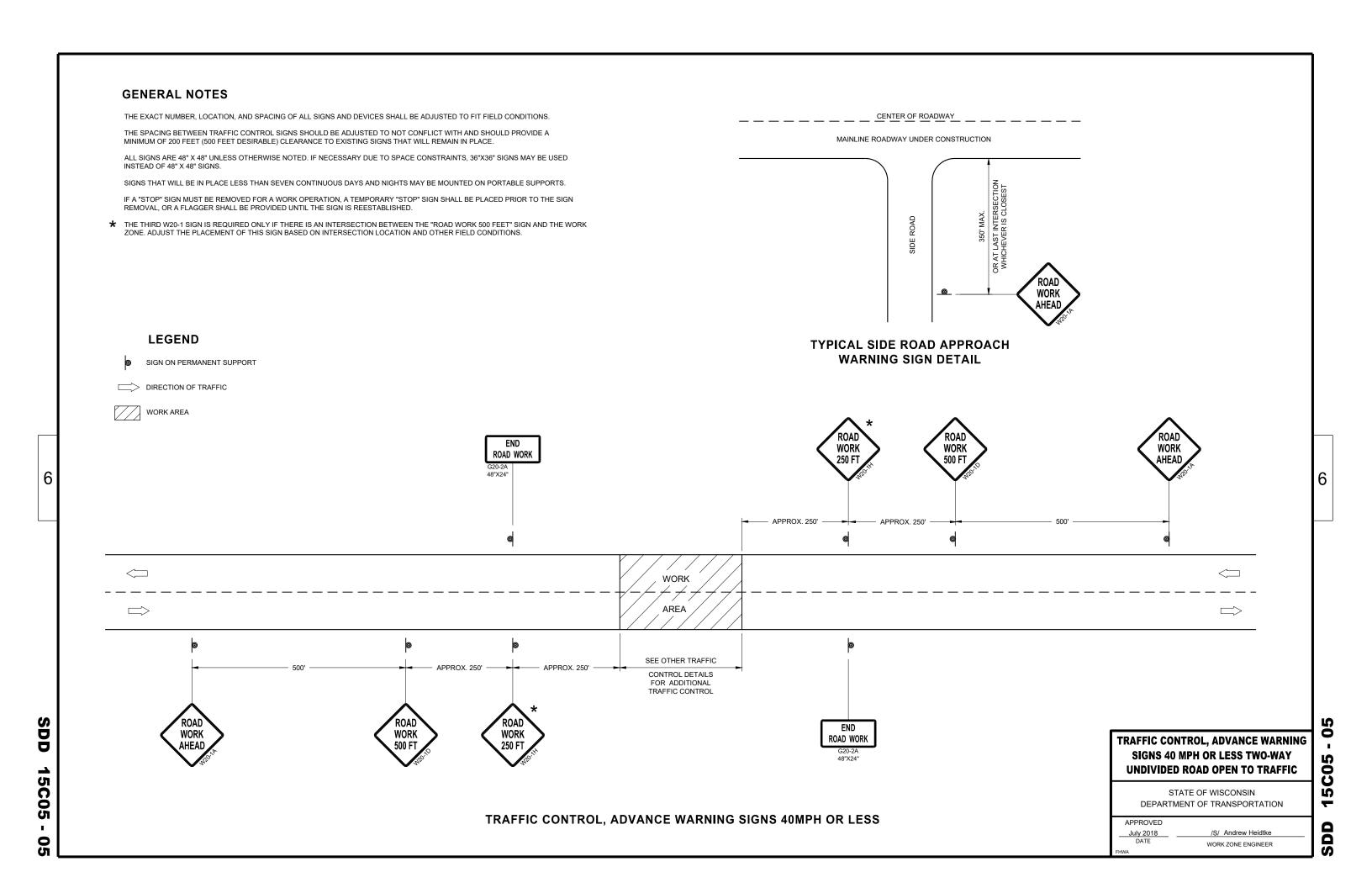


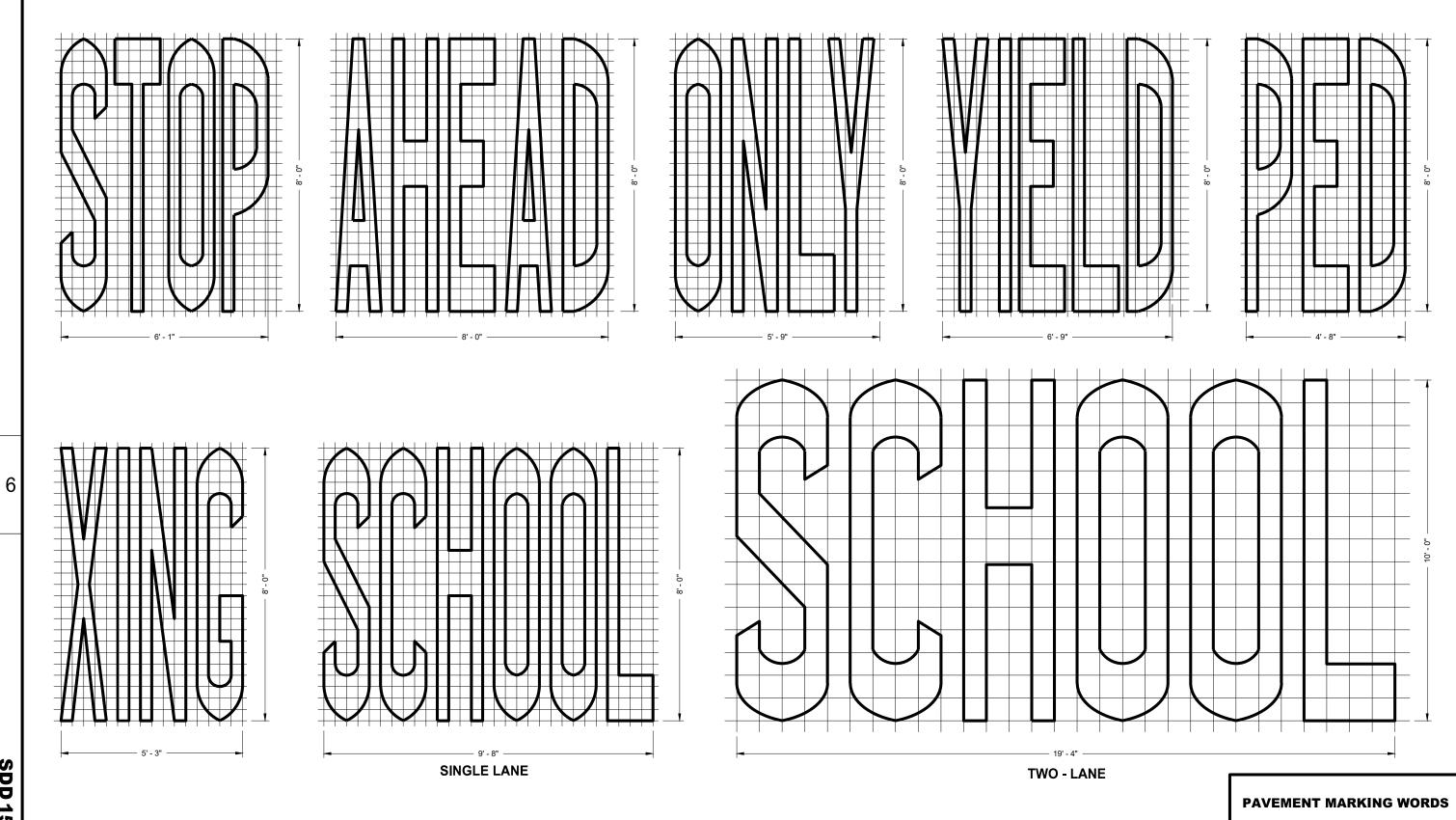












SDD 15C07 15b

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

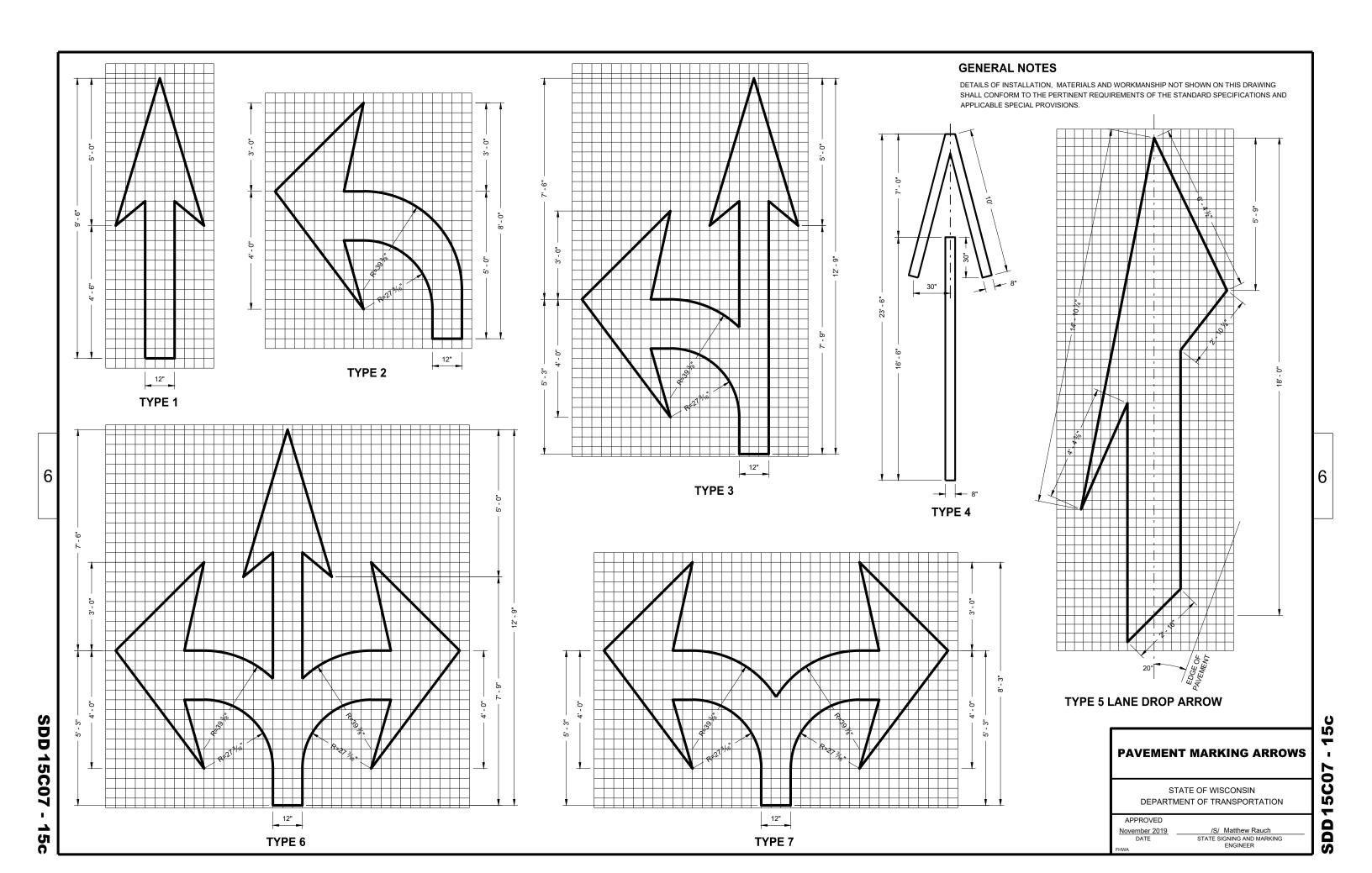
APPROVED

November 2019 ____ /S/ Matthew Rauch
STATE SIGNING AND MARKING
ENGINEER

6

5b

SDD15C07



GENERAL NOTES

- 1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- (2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

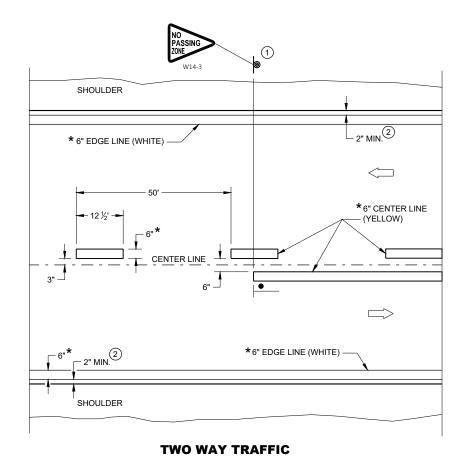
LEGEND

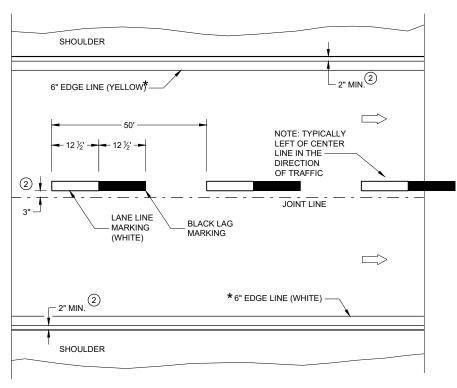
"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES





ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

May 2023

DATE /S/ Jeannie Silver
STATEWIDE SIGNING AND MARKING
ENGINEER

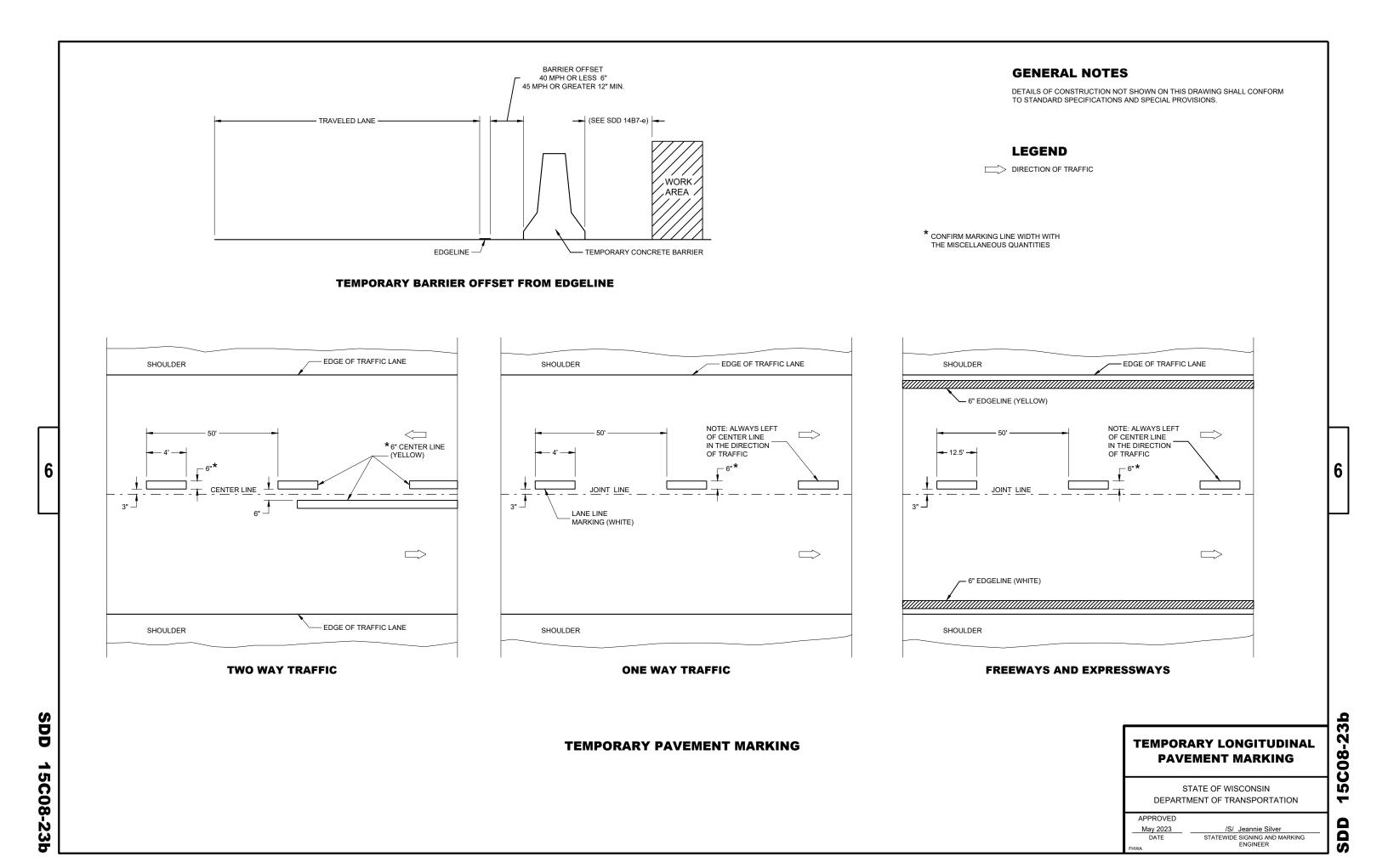
SDD 15C08-23a

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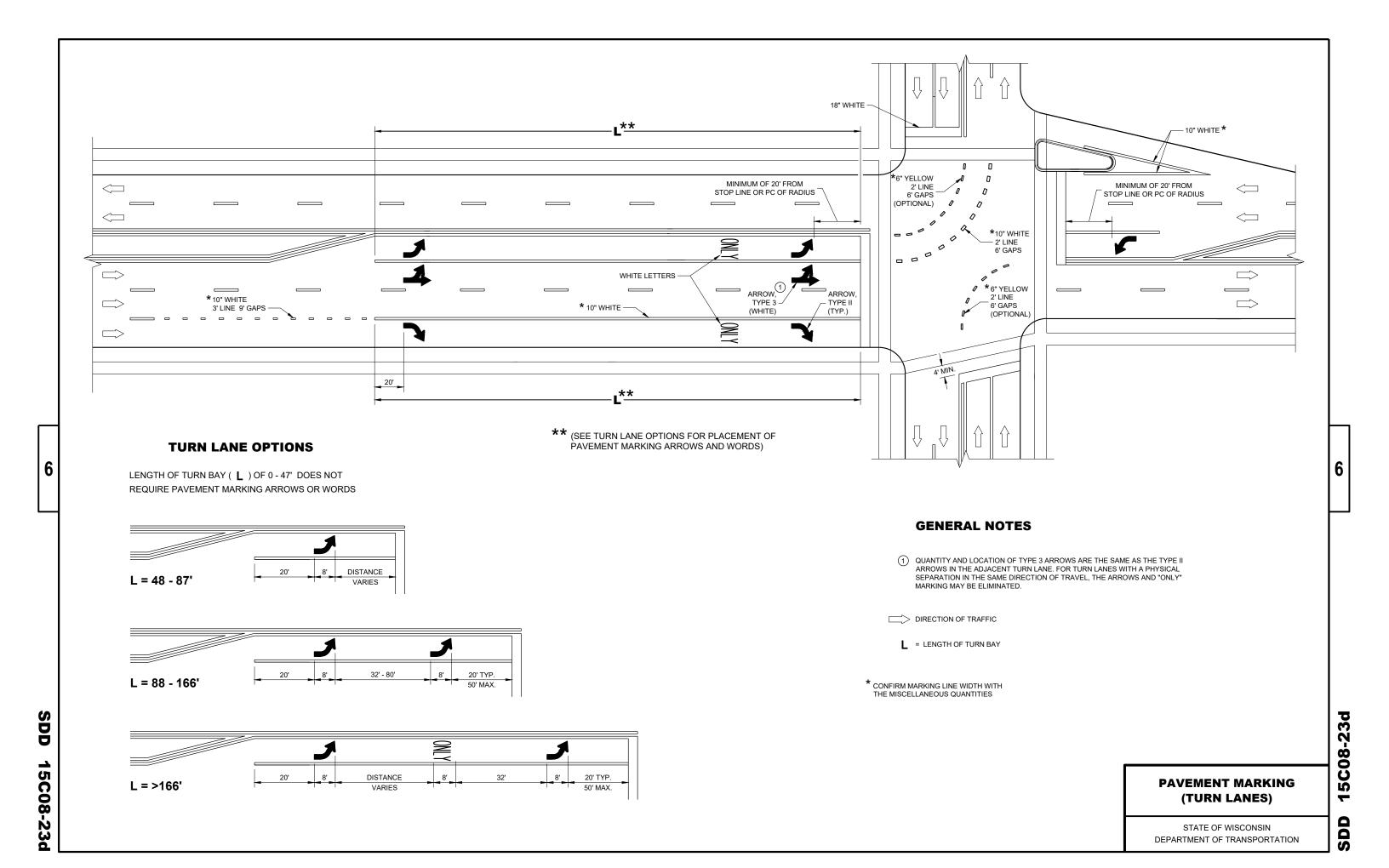
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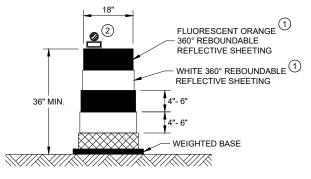


STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



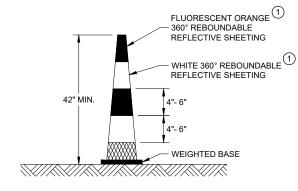
GENERAL NOTES

- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



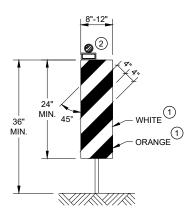
DRUM

BALLAST WIDTHS RANGE FROM 24"-36"



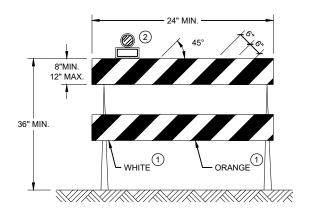
42" CONE

DO NOT USE IN TAPERS ½ SPACING OF DRUMS BALLAST WIDTHS RANGE FROM 14"-20"



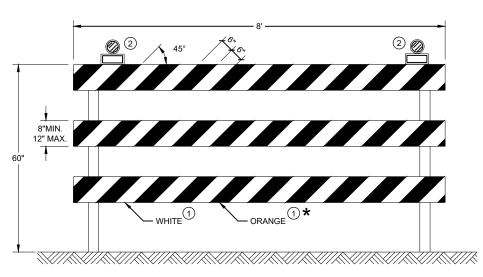
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 15C

APPROVED	
November 2022	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER

WORK

STRIPS

ROAD

GENERAL NOTES FLAGGING LEGEND FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON SIGN ON PORTABLE OR PERMANENT SUPPORT UNIFORM TRAFFIC CONTROL DEVICES. PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING. ① FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. TEMPORARY PORTABLE RUMBLE WORK OPERATION OR AS APPROVED BY THE ENGINEER. STRIP ARRAY "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE. (2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE DIRECTION OF TRAFFIC ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED. THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP WORK AREA **TEMPORARY PORTABLE RUMBLE STRIPS** WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS. TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED FLAGGER, EQUIPPED WITH STOP/SLOW ③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT PADDLE FASTENED ON SUPPORT STAFF THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST. INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS. DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS. SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE 5' MIN BE SPACING "A" SPEED LIMIT USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, PREPARED THIS SIGN SHALL BE LOCATED BETWEEN THE 25-30 MPH TO STOP W20-7A AND W20-4A SIGNS, USING SPACING "A". 35-40 MPH 350' STOP/SLOW PADDLE ŔUMBLĖ 45-55 MPH 500' WO3-4 WORK **ON SUPPORT STAFF** ROAD STRIPS 1 VARIABLE DISTANCE - 200' - 300' (TYP.) END ROAD WORK |||3 WORK AREA A/2 END ROAD WORK 200' - 300' (TYP.) VARIABLE DISTANCE RUMBLE

TRAFFIC CONTROL FOR LANE CLOSURE WITH **FLAGGING OPERATION**

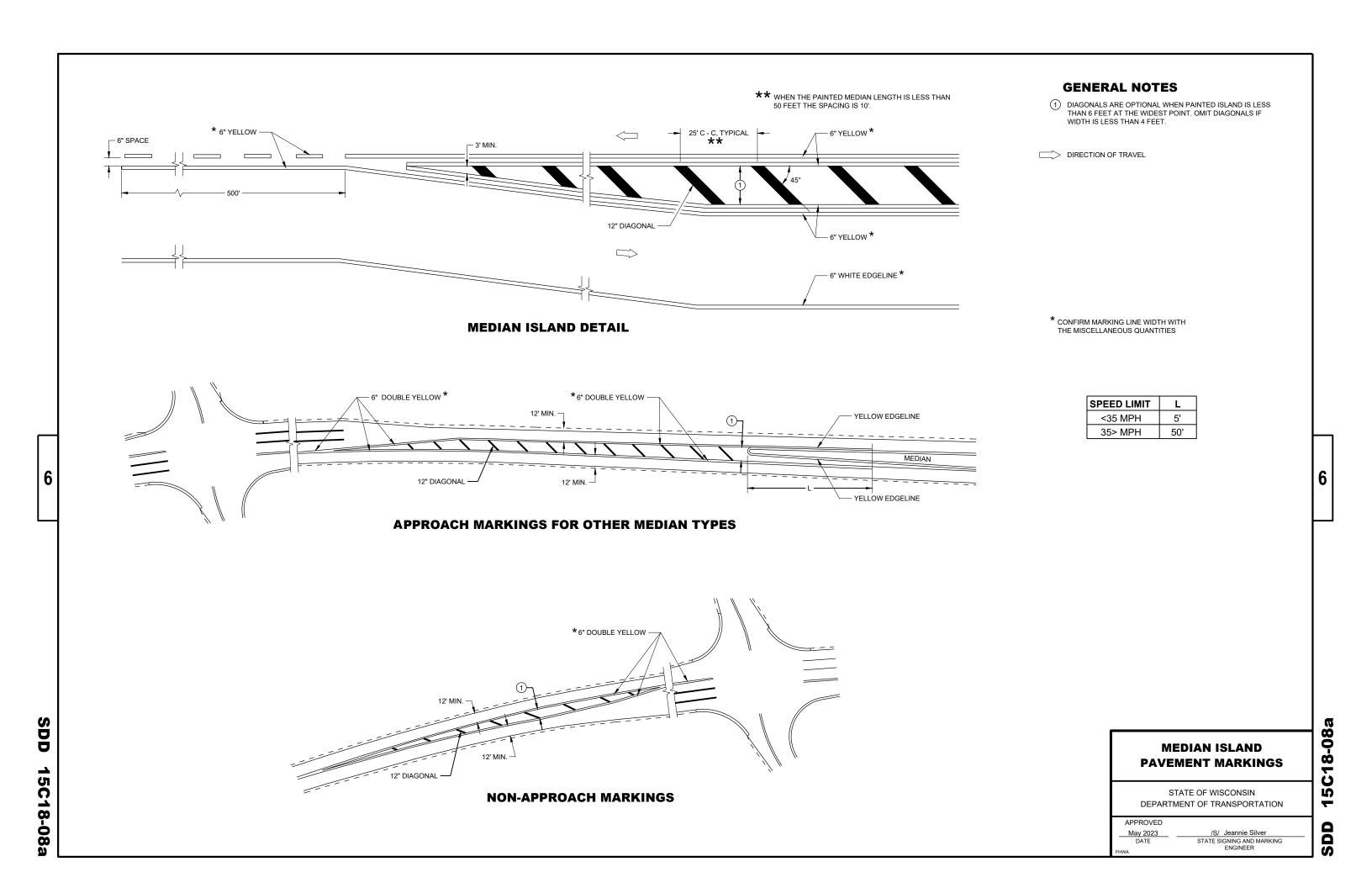
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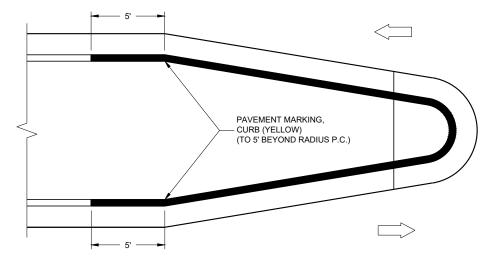
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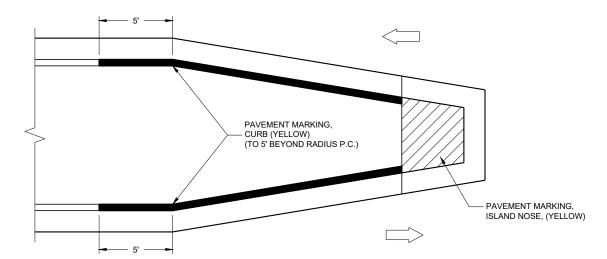
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2022	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER





MEDIAN ISLAND WITH ROUND BLUNT NOSE



TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

MEDIAN ISLAND WITH SLOPED NOSE

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

CURB MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

PAVEMENT MARKINGS, MEDIAN ISLAND NOSE C18-08

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

May 2023
DATE
STATE SIGNING AND MARKING
FHWA

STATE SIGNINEER

SDD 15C18-08b

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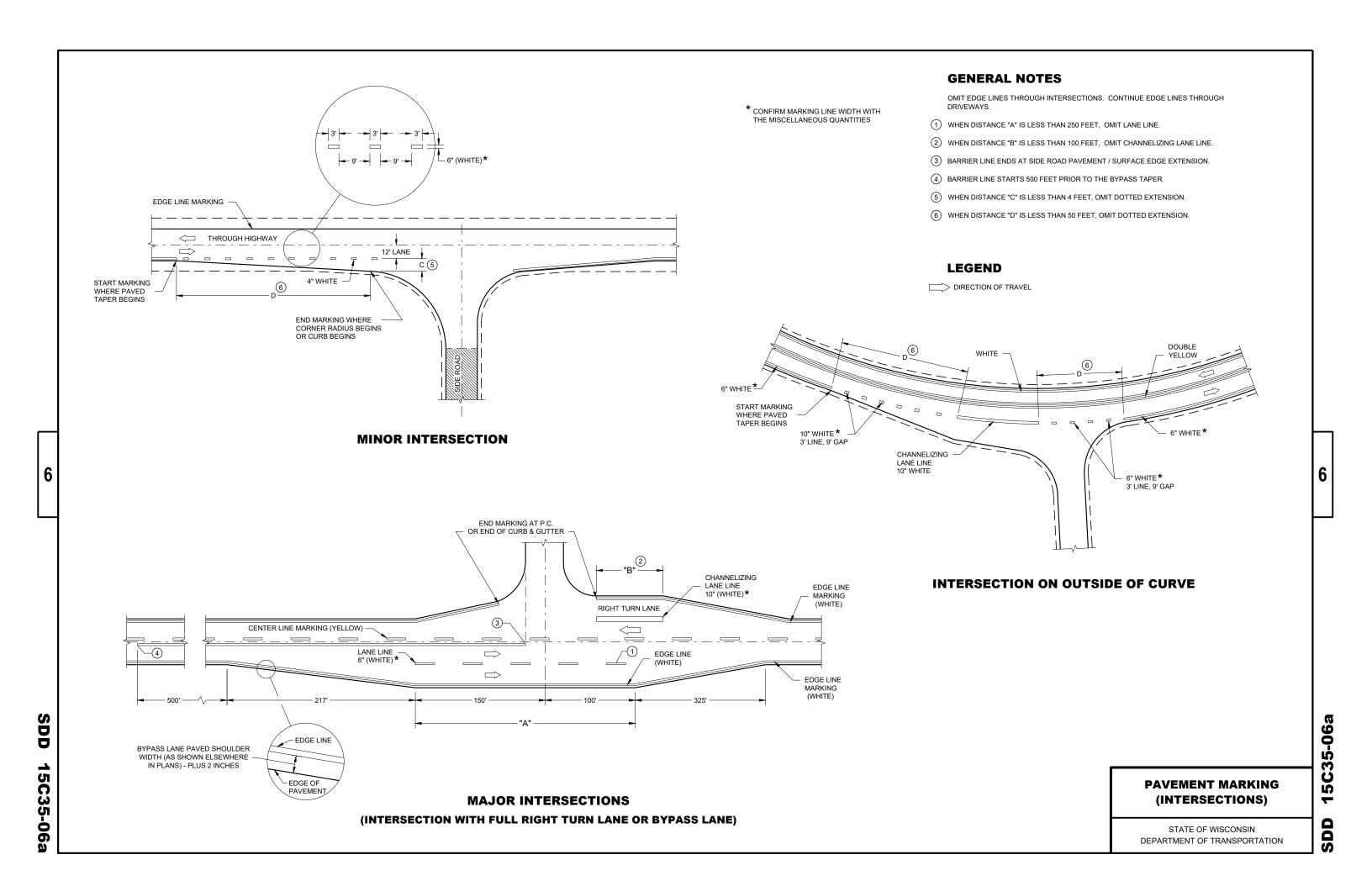
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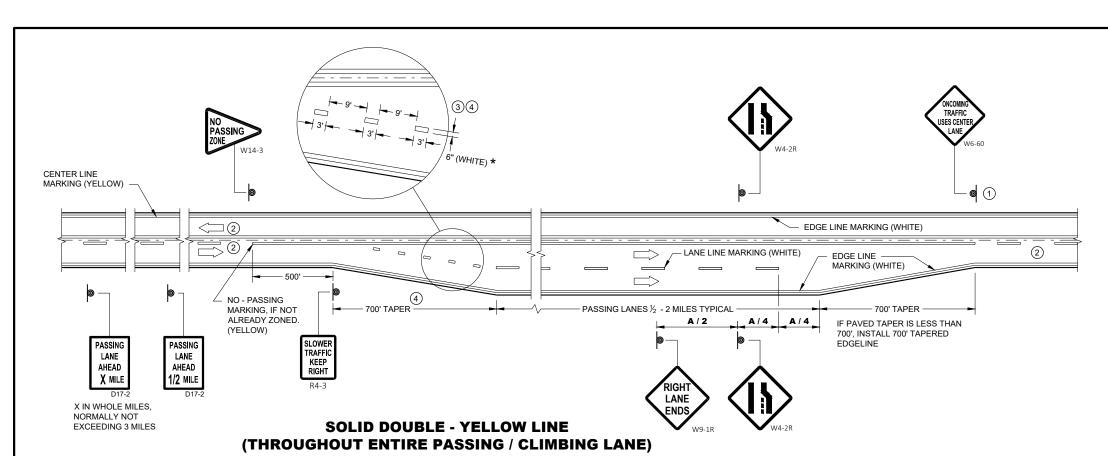
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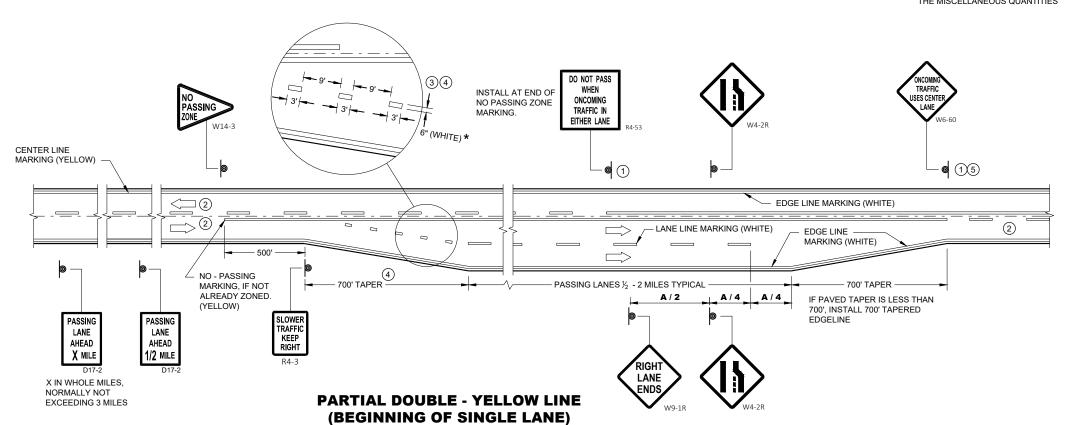
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* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



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SDD

15C35-06b

GENERAL NOTES

- \bigodot SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
- 2) THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- 3 THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- IN THE PASSING / CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT
- (5) REPEAT EVERY 1 MILE UP UNTIL R4-53.

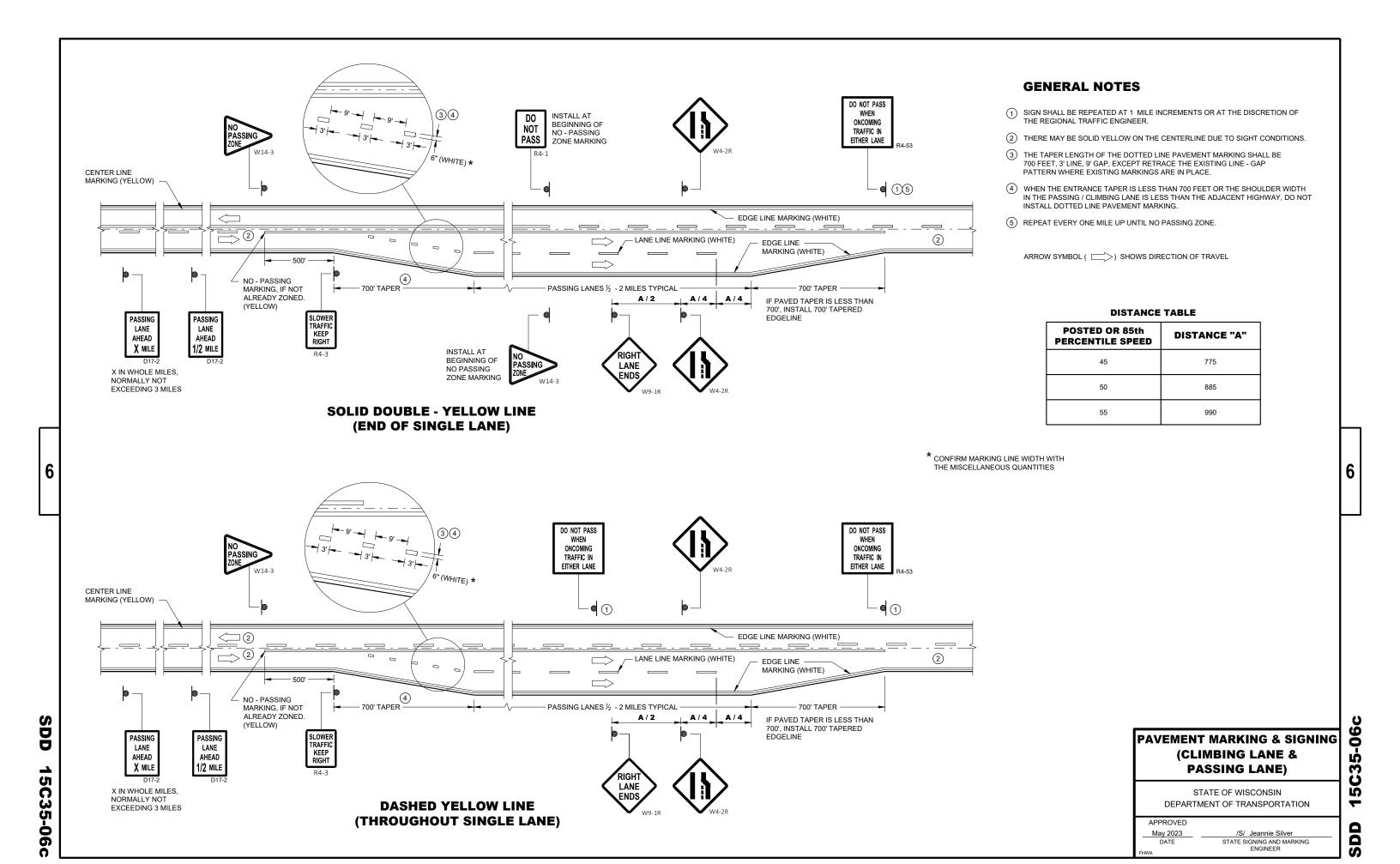
PAVEMENT MARKING & SIGNING (CLIMBING LANE & **PASSING LANE)**

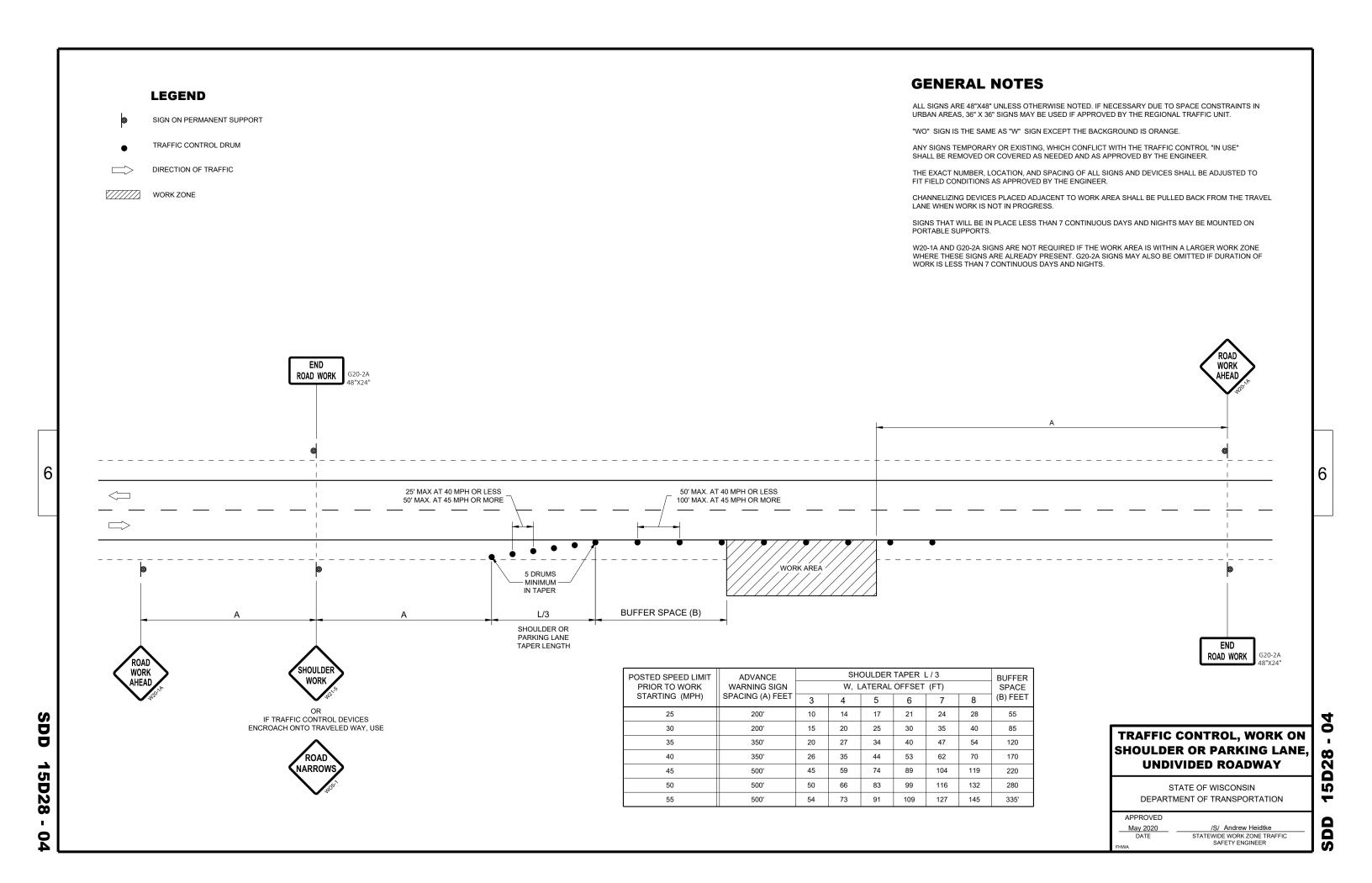
C35-06b

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION





DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED. ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

- (1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.
- (2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

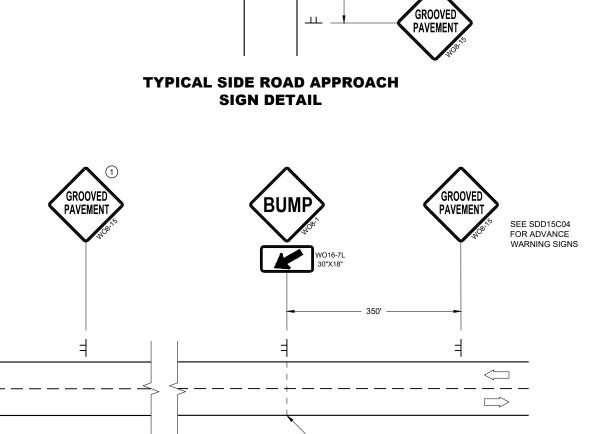
BEGIN MILLED SURFACE

PAVEMENT

SEE SDD15C04 FOR ADVANCE

WARNING SIGNS

DIRECTION OF TRAFFIC



END MILLED SURFACE

DETAIL FOR SIGNING ON MILLED SURFACES

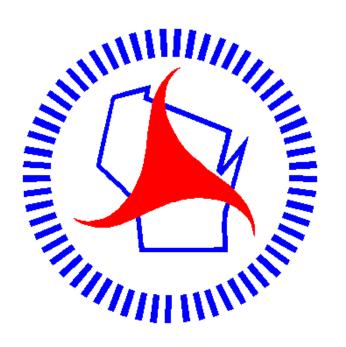
TRAFFIC CONTROL, **SIGNING ON ROADWAYS WITH MILLED SURFACES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION S

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APPROVED	
February 2020	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov