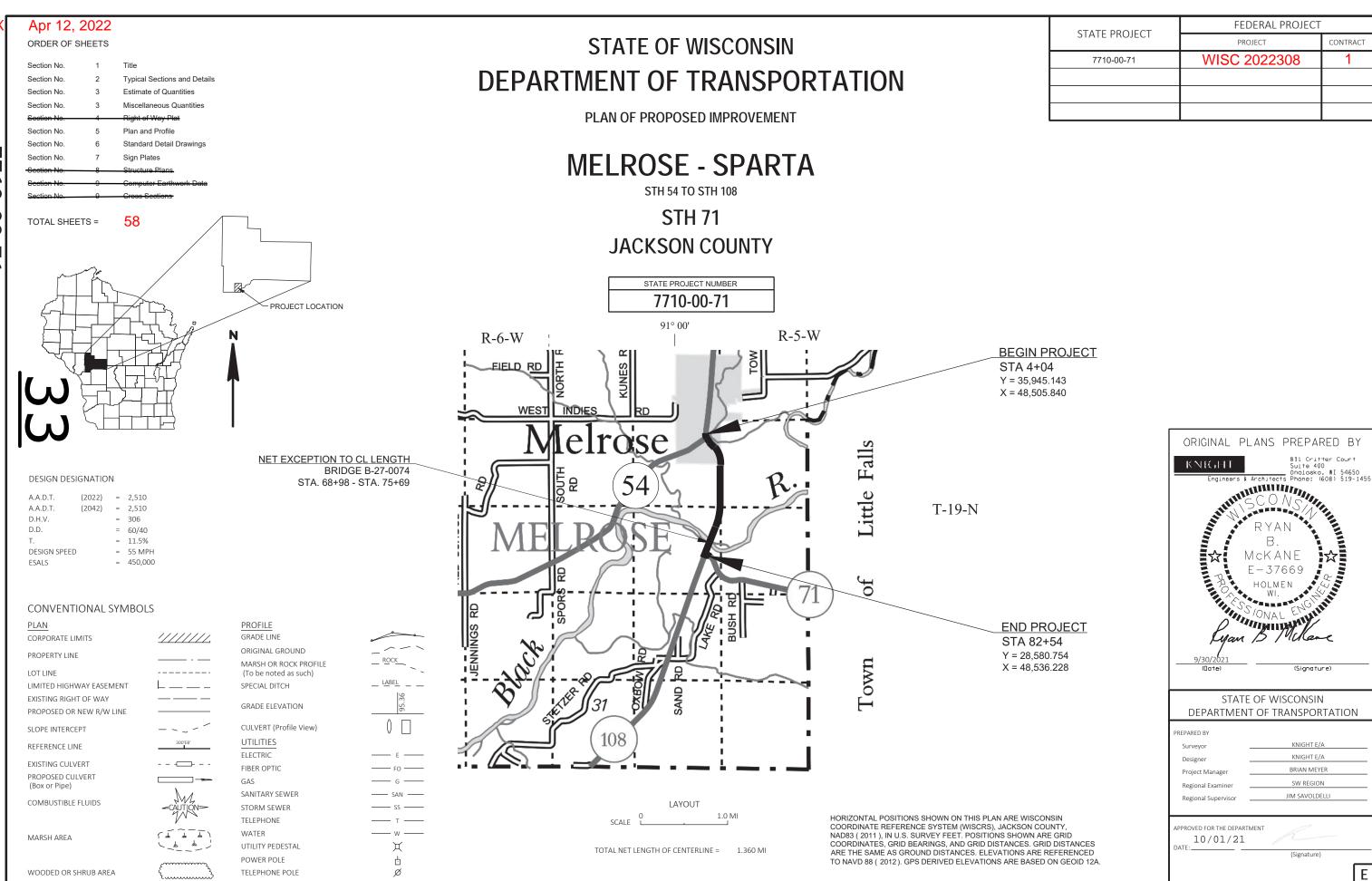
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1/31/2022 1:03 PM

SEBESTA, MAX

PLOT NAME

12

GENERAL NOTES

- NO TREES OR SHRUBS SHALL BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE BEEN DESGINATED FOR REMOVAL BY THE ENGINEER.
- DISTURBED AREAS WITHING THE RIGHT OF WAY ARE TO BE SALVAGED TOPSOILED, FERTILIZED, SEEDED, AND MULCHED OR SODDED AS DIRECTED BY THE ENGINEER.
- MATCH EXISTING DRIVEWAYS WITH IN-KIND MATERIALS.
- PAVING LIMITS ARE TO BE DETERMINED BY THE ENGINEER.
- TACK COAT IS REQUIRED BETWEEN THE MILLED PAVEMENT AND HMA PAVEMENT. APPLY TACK COAT AT A RATE OF 0.07 GAL/SY TO MILLED SURFACES AND 0.05 GAL/SY BETWEEN LAYERS OF HMA PAVEMENT.
- THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
- HMA PAVEMENT TO BE PLACED IN 1.75-INCH LOWER LIFT AND 1.5-INCH UPPER LIFT.
- SURFACE WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN.
- WHEN THE QUANTITIY OF BASE AGGREGATE IS MEASURED FOR PAVEMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.
- RIGHT OF WAY DEPICTED ON THE PLANS ARE BASED OFF OF PREVIOUS AS BUILTS. IF CONFLICTS ARE ANTICIPATED, THE CONTRACTOR SHALL FIELD VERIFY EXACT LIMITS AND NOTIFY THE ENGINEER.
- AERIAL IMAGERY SHOWN ON THIS PLAN IS FROM 2015 AND IS FOR INFORMATIONAL PURPOSES ONLY.
- CONTRACTOR TO PROTECT DJ4918 GPS AND KEEP CONSTRUCTION EQUIPMENT AT LEAST 10 FEET AWAY FROM DJ4918 GPS. ENSURE THAT DJ4918 GPS I S/ARE NOT DISTURBED, BUMPED OR MOVED DURING THE DURATION OF THE PROJECT. NOTIFY JACOB ROCKWEILER IMMEDIATELY IF DJ4918 GPS I S/ARE DISTURBED, BUMPED OR MOVED DURING CONSTRUCTION OPERATIONS. JACOB ROCKWEILER, P. E., WISCONSIN HEIGHT MODERNIZATION PROGRAM MANAGER WITH THE WISCONSIN DEPARTMENT OF TRANSPORTATION WHOSE PHONE NUMBER IS (608) 516-6362 AND EMAIL IS JACOB. ROCKWEILER@DOT. WI. GOV
- MILL AND PAVE ADJACENT TO MONUMENT WITHOUT DAMAGING THE MONUMENT

AREA CONTACTS

WI SDOT PROJECT MANAGER BRI AN MEYER, PE 3550 MORMON COULEE RD LA CROSSE, WI 54601 (608) 789-5676 BRI AN. MEYER@DOT. WI. GOV DESIGN CONTACT
KNIGHT E/A, INC.
RYAN MCKANE, PE
831 CRITTER CT, STE 400
ONALASKA, WI 54650
(608) 713-9274
RMCKANE@KNIGHTEA. COM

WI SDNR: JACKSON COUNTY
BRADLEY BETTHAUSER
910 HI GHWAY 54 EAST
BLACK RI VER FALLS WI 54615
(715) 213-9064
BRADLEY. BETTHAUSER@WI SCONSI N. GOV

STANDARD ABBREVIATIONS

Α	С	ACRE	INL	INLET
Α	GG	AGGREGATE	INV	INVERT
Α	Н	AHEAD	JCT	JUNCTI ON
Α	ADT	ANNUAL AVERAGE DAILY TRAFFIC	LT	LEFT
Α	SPH	ASPHALTI C	L	LENGTH OF CURVE
Α	VG	AVERAGE	LIN FT or LF	LINEAR FOOT
В	K	BACK	LS	LUMP SUM
В	AD	BASE AGGREGATE DENSE	NC	NORMAL CROWN
В	M	BENCH MARK	N	NORTH
В	R	BRI DGE	NB	NORTHBOUND
С	L or C/L	CENTER LINE	NO	NUMBER
С	E	COMMERCI AL ENTRANCE	PT	POI NT
С	ONC	CONCRETE	PC	POINT OF CURVATURE
С	Ο	COUNTY	PI	POINT OF INTERSECTION
C	TH	COUNTY TRUNK HI GHWAY	PT	POINT OF TANGENCY
С	R	CREEK	PCC	PORTLAND CEMENT CONCRETE
C.	ABC	CRUSHED AGGREGATE BASE COURSE	LB	POUND
С	SD	COMMUNITY SENSITIVE DESIGN	PE	PRI VATE ENTRANCE
C	Y or CUYD	CUBI C YARD	R	RADI US
С	ULV	CULVERT	RL or R/L	REFERENCE LINE
С	Р	CULVERT PIPE	RT	RI GHT
С	& G	CURB AND GUTTER	R/W	RI GHT-OF-WAY
D		DEGREE OF CURVE	RD	ROAD
D	ΙA	DI AMETER	SHLDR	SHOULDER
D	I SCH	DI SCHARGE	SB	SOUTHBOUND
Ε		EAST	SF or SQ FT	SQUARE FEET
Ε	В	EASTBOUND	SY or SQ YD	SQUARE YARD
Ε	L or ELEV	ELEVATI ON	SDD	STANDARD DETAIL DRAWINGS
E	W	ENDWALL	STH	STATE TRUNK HIGHWAYS
Ε	NT	ENTRANCE	SE	SUPERELEVATI ON
Ε	XC	EXCAVATI ON	T	TANGENT
Ε	Χ	EXI STI NG	TEMP	TEMPORARY
F	ERT	FERTI LI ZER	TWLTL	TWO-WAY LEFT-TURN LANE
F	E	FIELD ENTRANCE	UG	UNDERGROUND
F	L or F/L	FLOW LINE	USH	UNITED STATES HIGHWAY
F	Т	FOOT	V	VELOCITY OR DESIGN SPEED
Н	E,	HI GHWAY EASEMENT	VC	VERTI CAL CURVE
	MA	HOT MIX ASPHALT	WB	WESTBOUND
C	WT	HUNDREDWEI GHT	YD	YARD

PROJECT NO: 7710-00-71 HWY: STH 71 COUNTY: JACKSON GEN NOTES, STAND ABBR, & CONTACTS SHEET **E**

FILE NAME : ______ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : ____ ORG DATE : ____ ORIGINATOR : DIST PLOT SCALE : 1:1

12

2

UTILITY CONTACTS

CENTURYLINK - COMMUNICATION LINE BRIAN STELPLUGH 333 NORTH FRONT ST LA CROSSE, WI 54601 (608) 615-4136 BRIAN. STELPLUGH@LUMEN. COM

VILLAGE OF MELROSE - WATER RAMON KNUDTSON 112 N WASHINGTON ST P. O. BOX 117 MELROSE, WI 54642-0117 (608) 488-4007 UTILITIES@MELROSEWI.COM CHARTER COMMUNICATIONS - COMMUNICATION LINE
PERRY McCLELLAN

1228 12TH AVE S

ONALASKA, WI 54650

(608) 317-6213

PERRY. MCCLELLAN@CHARTER. COM

XCEL ENERGY - ELECTRICITY

JASON McROBERTS

3315 COMMERCE ST

LA CROSSE, WI 54603

(715) 577-1132

JASON. L. MCROBERTS@XCELENERGY. COM

VILLAGE OF MELROSE - SEWER RAMON KNUDTSON

112 N WASHI NGTON ST

P. O. BOX 117 MELROSE, WI 54642-0117

(608) 488-4007

UTI LI TI ES@MELROSEWI . COM

ORDER OF TYPICAL SECTION & DETAIL SHEETS

- 1. GENERAL NOTES
- 2. PROJECT OVERVIEW
- 3. TYPI CAL SECTIONS
- 4. CONSTRUCTION DETAILS
- 5. ALIGNMENT DETAIL & TIES

RUNOFF COEFFICIENT TABLE

	H	'DROLOG	IC SOIL GROUP											
А		В С									D			
	SLO	PE RANG	E (PERCENT)	SLOPE	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER		
ROW CROPS	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38		
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56		
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40		
SIDE SLOPE:			.25			.27			.28			.30		
TURF			.32			.34			.36			.38		
PAVEMENT:	•													
ASPHALT						.7095								
CONCRETE						.8095								
BRICK						.7080								
DRIVES, WALKS						.7585								
ROOFS						.7595								
GRAVEL ROADS, SHO	OULDERS					.4060								

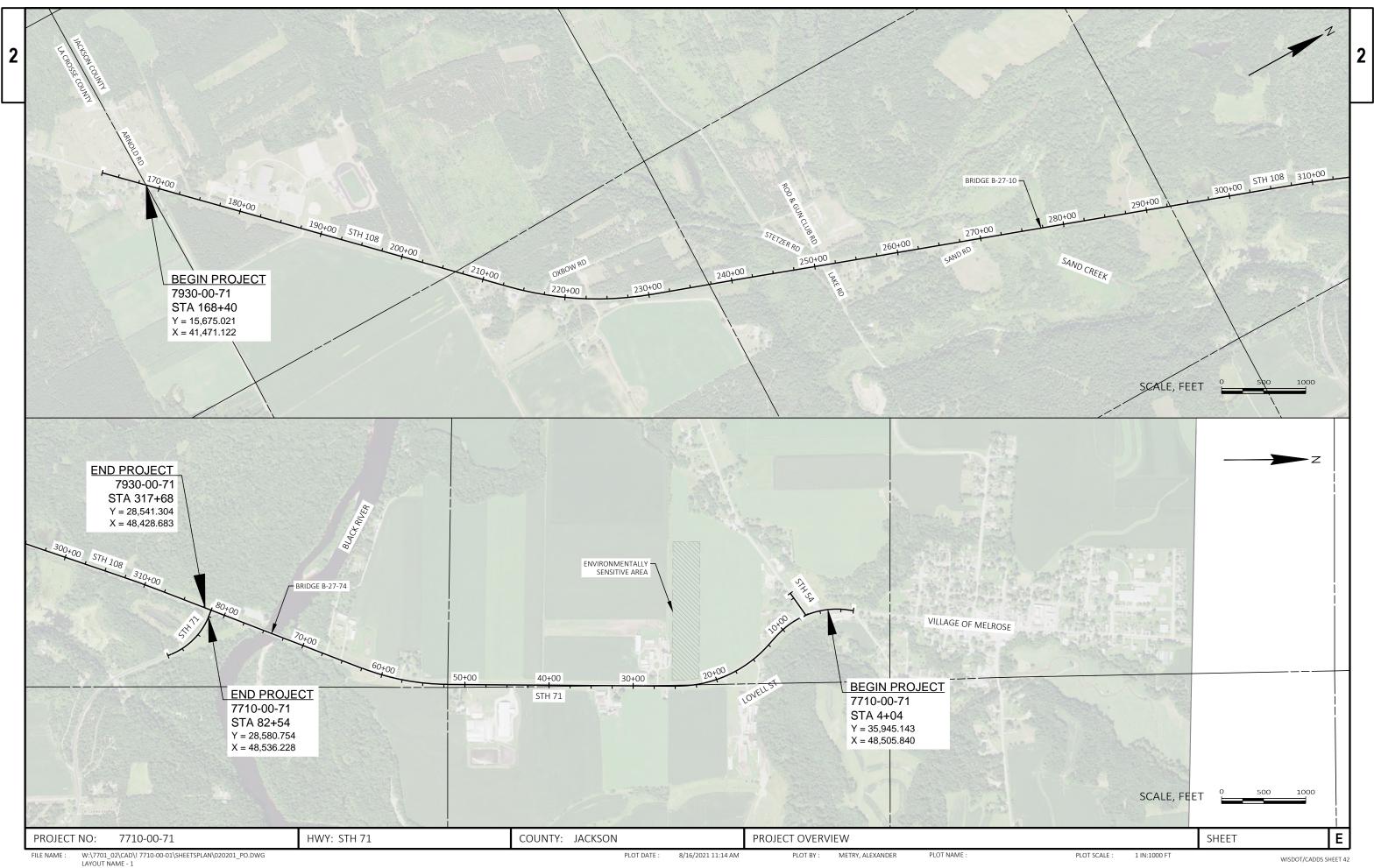
TOTAL PROJECT AREA = 10.88 ACRES

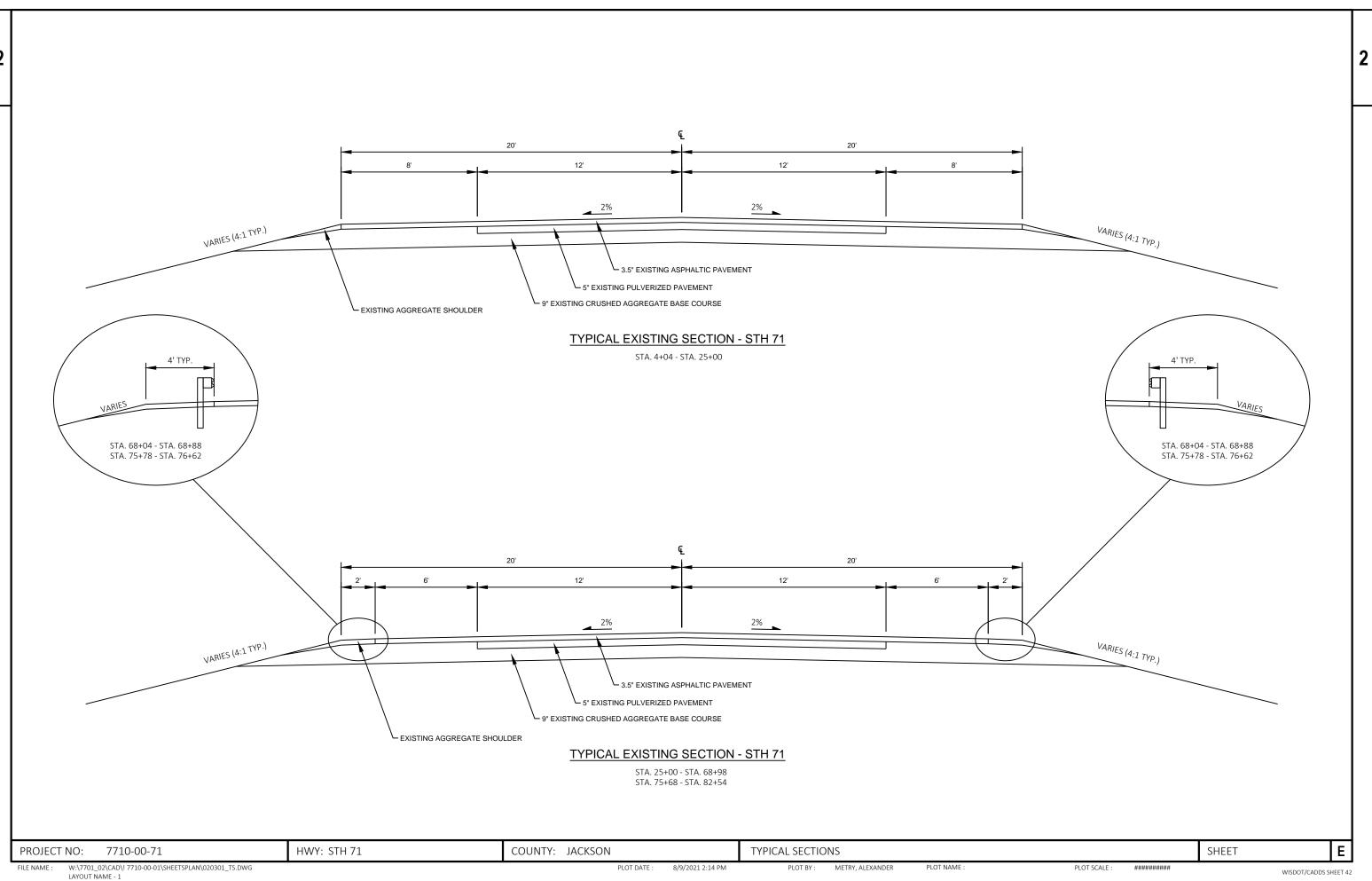
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = _____O. 00__ACRES

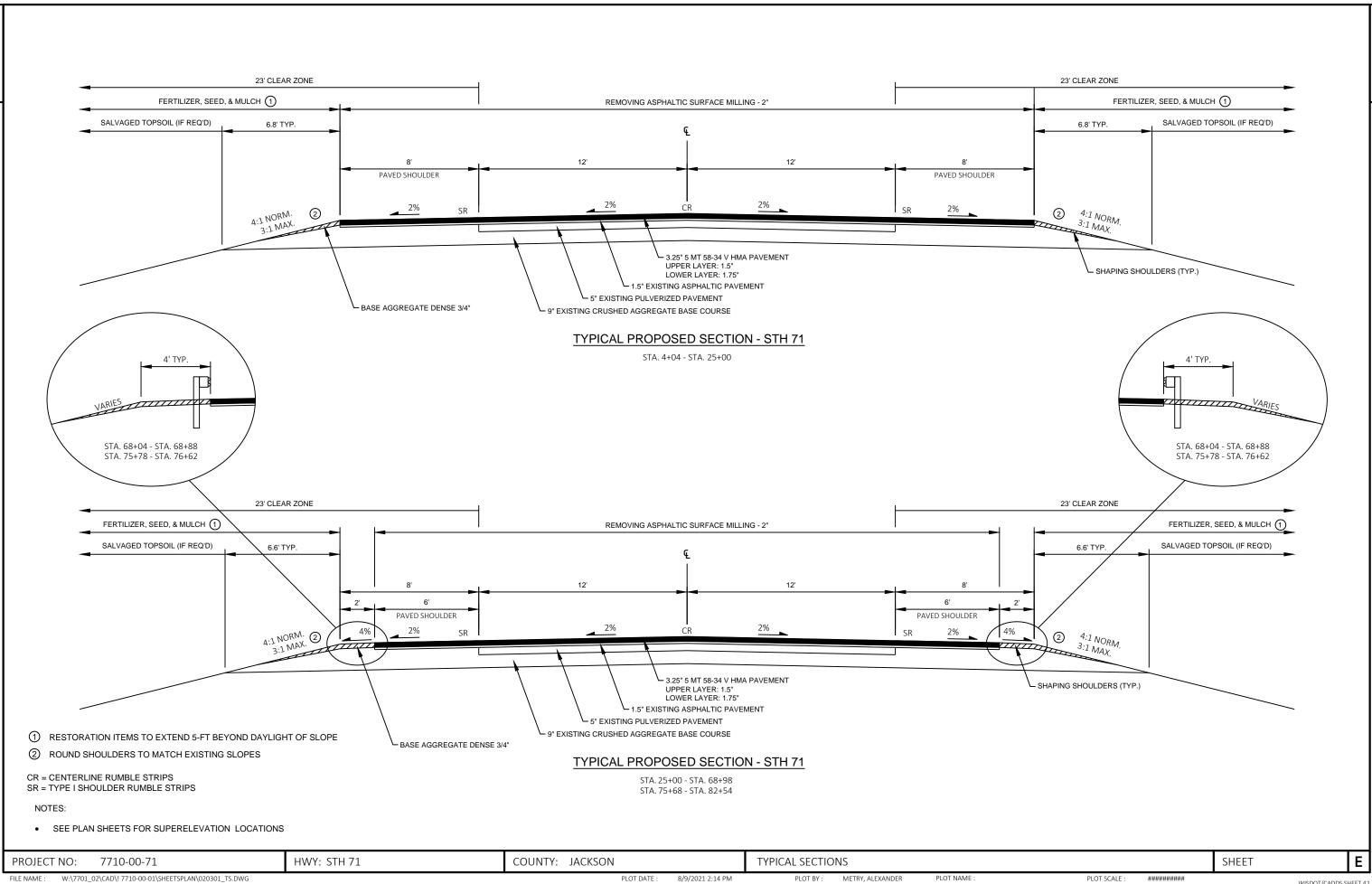
Dial or (800) 242-8511
www.DiggersHotline.com

PROJECT NO: 7710-00-71 HWY: STH 71 COUNTY: JACKSON GEN NOTES, STAND ABBR, & CONTACTS SHEET **E**

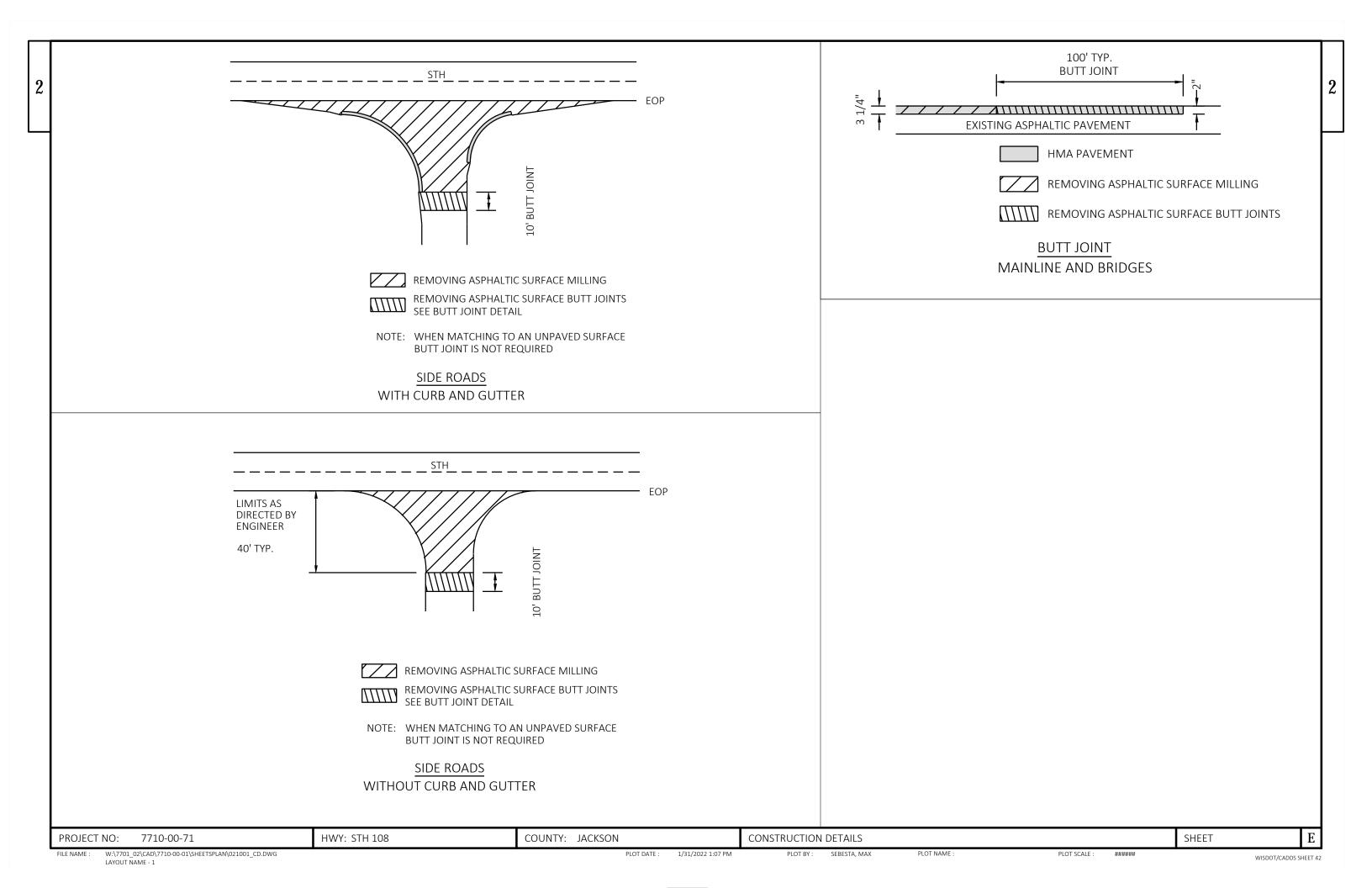
FILE NAME : ______ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ ORG DATE : _____ ORIGINATOR : DIST _ PLOT SCALE : 1:1

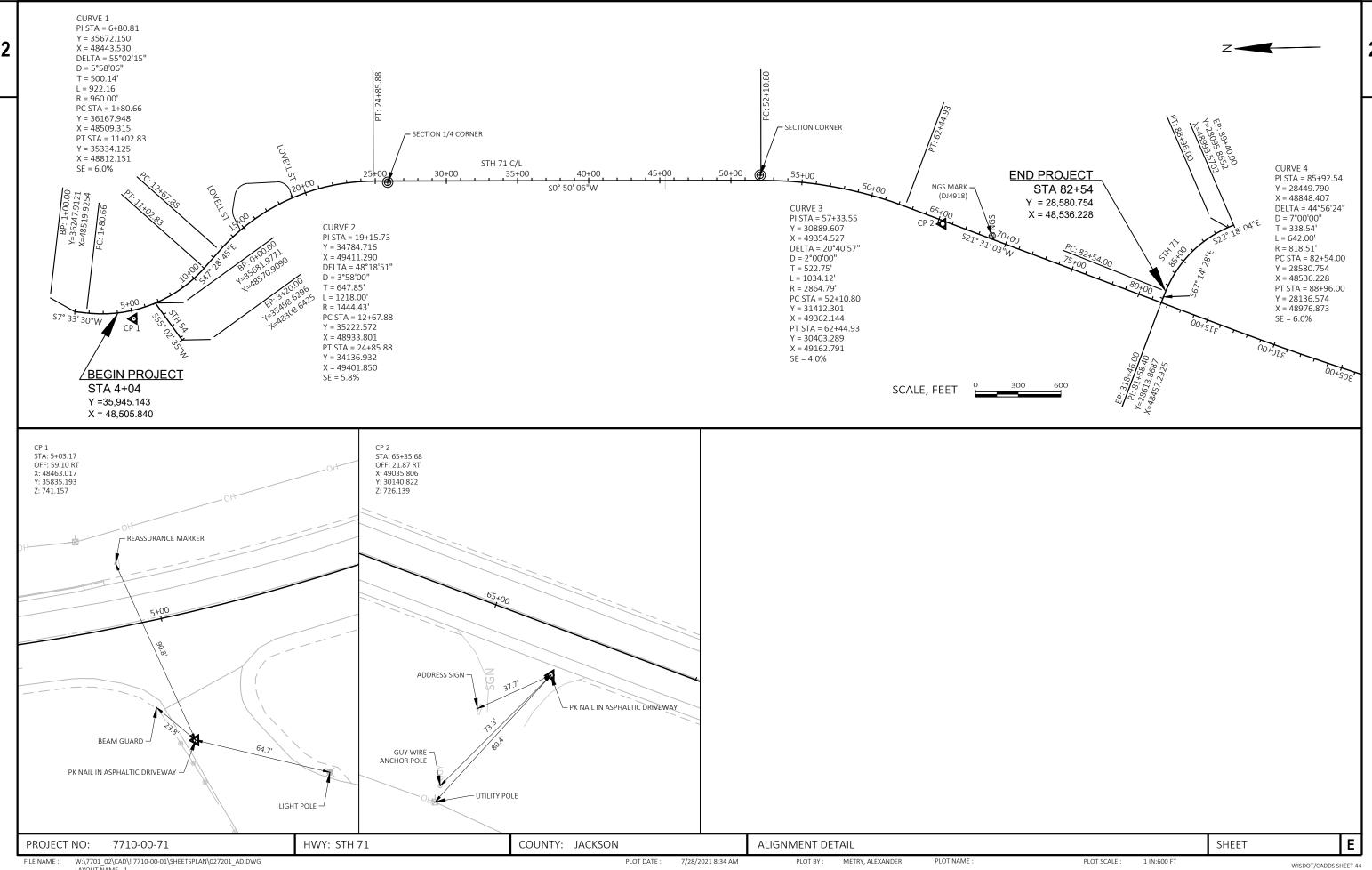






WISDOT/CADDS SHEET 42





					•	
					7710-00-71	
Line	Item	Item Description	Unit	Total	Qty	
0002	204.0110	Removing Asphaltic Surface	SY	303.000	303.000	
0004	204.0115	Removing Asphaltic Surface Butt Joints	SY	1,432.000	1,432.000	
0006	204.0120	Removing Asphaltic Surface Milling	SY	29,667.000	29,667.000	
8000	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 7710-00-71	LS	1.000	1.000	
0014	213.0100	Finishing Roadway (project) 01. 7710-00-71	EACH	1.000	1.000	
0018	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,146.000	1,146.000	
0020	305.0500	Shaping Shoulders	STA	144.000	144.000	
0022	455.0605	Tack Coat	GAL	3,786.000	3,786.000	
0024	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	2.000	2.000	
0026	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	2.000	2.000	
0028	460.2000	Incentive Density HMA Pavement	DOL	1,500.000	1,500.000	
0030	460.2005	Incentive Density PWL HMA Pavement	DOL	3,480.000	3,480.000	
0032	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	3,140.000	3,140.000	
0034	460.2010	Incentive Air Voids HMA Pavement	DOL	3,480.000	3,480.000	
0036	460.6645	HMA Pavement 5 MT 58-34 V	TON	5,738.000	5,738.000	
0038	460.9000.S	Material Transfer Vehicle (project) 01. 7710-00-71	EACH	1.000	1.000	
0042	465.0105	Asphaltic Surface	TON	500.000	500.000	
0044	465.0110	Asphaltic Surface Patching	TON	300.000	300.000	
0046	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	53.000	53.000	
0048	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	10,673.000	10,673.000	
0050	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	4,485.000	4,485.000	
0052	614.0400	Adjusting Steel Plate Beam Guard	LF	200.000	200.000	
0058	618.0100	Maintenance And Repair of Haul Roads (project) 01. 7710-00-71	EACH	1.000	1.000	
0062	619.1000	Mobilization	EACH	0.400	0.400	
0064	624.0100	Water	MGAL	18.000	18.000	
0066	625.0500	Salvaged Topsoil	SY	1,000.000	1,000.000	
0068	627.0200	Mulching	SY	1,000.000	1,000.000	
0070	628.1504	Silt Fence	LF	250.000	250.000	
0072	628.1520	Silt Fence Maintenance	LF	250.000	250.000	
0074	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000	
0076	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0078	628.7504	Temporary Ditch Checks	LF	50.000	50.000	
0800	629.0210	Fertilizer Type B	CWT	0.630	0.630	
0082	630.0130	Seeding Mixture No. 30	LB	18.000	18.000	
0084	630.0500	Seed Water	MGAL	12.000	12.000	
0086	638.2102	Moving Signs Type II	EACH	4.000	4.000	
0088	638.4000	Moving Small Sign Supports	EACH	4.000	4.000	
0090	642.5001	Field Office Type B	EACH	0.500	0.500	
0092	643.0300	Traffic Control Drums	DAY	38.000	38.000	
0094	643.0900	Traffic Control Signs	DAY	10.000	10.000	
0096	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000	
0098	643.5000	Traffic Control	EACH	0.500	0.500	
0100	646.1020	Marking Line Epoxy 4-Inch	LF	9,822.000	9,822.000	
0102	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	15,474.000	15,474.000	
0104	646.3545	Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	LF	164.000	164.000	
0104	646.6120	Marking Stop Line Epoxy 18-Inch	LF	56.000	56.000	
0108	648.0100	Locating No-Passing Zones	MI	1.480	1.480	
0110	649.0105	Temporary Marking Line Paint 4-Inch	LF	17,603.000	17,603.000	
0112	649.0120	Temporary Marking Line Epoxy 4-Inch	LF	8,802.000	8,802.000	

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Estimate Of Quan

Page	2
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					7710-00-71
Line	Item	Item Description	Unit	Total	Qty
0114	650.8000	Construction Staking Resurfacing Reference	LF	7,850.000	7,850.000
0116	650.9910	Construction Staking Supplemental Control (project) 01. 7710-00-71	LS	1.000	1.000
0120	690.0150	Sawing Asphalt	LF	166.000	166.000
0122	740.0440	Incentive IRI Ride	DOL	5,947.000	5,947.000
0124	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0126	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0128	SPV.0060	Special 01. LANDMARK REFERENCE MONUMENTS SPECIAL	EACH	1.000	1.000

ASPHALT ITEMS SUMMARY

CATEGORY	STATI ON	TO	STATION	LOCATI ON	HMA PAVEMENT 5 MT 58-34 V 460.6645 TON	TACK COAT 455. 0605 GAL	ASPHALTI C SURFACE 465. 0105 TON	ASPHALTI C SURFACE PATCHI NG 465. 0110 TON	ASPHALTIC SURFACE DRIVEWAY AND FIELD ENTRANCES 465.0120 TON	REMARKS
0010	4+04	_	68+98	STH 71 ML	2672	1909	_	_	=	BINDER LAYER
0010	4+04	_	68+98	STH 71 ML	2291	1364	-	_	-	SURFACE LAYER
0010	75+69	-	82+54	STH 71	328	235	-	_	-	BINDER LAYER
0010	75+69	-	82+54	STH 71	282	168	-	_	-	SURFACE LAYER
0010	6+26	_	8+26	STH 71 & STH 54	89	64	-	_	-	BINDER LAYER
0010	6+26	_	8+26	STH 71 & STH 54	76	46	-	_	-	SURFACE LAYER
0010	4+60	_	65+52	STH 71	-	-	-	-	53	DRI VEWAYS
0010	4+04	-	82+54	BOP TO EOP	-	-	500	300	-	UNDI STRI BUTED
				PROJECT TOTALS =	5, 738	3, 786	500	300	53	

FOR INFORMATIONAL PURPOSES ONLY

							QUALITY MANAGEMENT PR
STATI ON	TO STATION	LOCATI ON	MI XTURE	UNDERLYING SURFACE	TONS	THI CKNESS	MIXTURE ACCEPTANCE
0+20	- 1+80	STH 54 LOWER LAYER MAINLINE AND SHOULDER	HMA PAVEMENT 5 MT 58-34 V	MILLED SURFACE	48. 782	1. 75	QMP AS PER SS 460
0+20	- 1+80	STH 54 UPPER LAYER MAINLINE AND SHOULDER	HMA PAVEMENT 5 MT 58-34 V	HMA PAVEMENT 5 MT 58-34 V	41. 813	1.5	QMP AS PER SS 460
0+33	- 1+15	STH 54 LOWER LAYER TURN LANE	HMA PAVEMENT 5 MT 58-34 V	MILLED SURFACE	30. 990	1. 75	QMP AS PER SS 460
0+33	- 1+15	STH 54, UPPER LAYER TURN LANE	HMA PAVEMENT 5 MT 58-34 V	HMA PAVEMENT 5 MT 58-34 V	26. 563	1.5	QMP AS PER SS 460
4+04	- 26+40	STH 71 LOWER LAYER MAINLINE	HMA PAVEMENT 5 MT 58-34 V	MILLED SURFACE	584. 341	1. 75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010
4+04	- 26+40	STH 71 LOWER LAYER SHOULDER	HMA PAVEMENT 5 MT 58-34 V	MILLED SURFACE	612. 167	2. 75	QMP AS PER SS 460
4+04	- 26+40	STH 71 UPPER LAYER MAINLINE	HMA PAVEMENT 5 MT 58-34 V	HMA PAVEMENT 5 MT 58-34 V	500. 864	1.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010
4+04	- 26+40	STH 71 UPPER LAYER SHOULDER	HMA PAVEMENT 5 MT 58-34 V	HMA PAVEMENT 5 MT 58-34 V	333. 909	1.5	QMP AS PER SS 460
26+40	- 68+98	STH 71 LOWER LAYER MAINLINE	HMA PAVEMENT 5 MT 58-34 V	MILLED SURFACE	1112. 757	1. 75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010
26+40	- 68+98	STH 71 LOWER LAYER SHOULDER	HMA PAVEMENT 5 MT 58-34 V	MILLED SURFACE	556. 379	1. 75	QMP AS PER SS 460
26+40	- 68+98	STH 71 UPPER LAYER MAINLINE	HMA PAVEMENT 5 MT 58-34 V	HMA PAVEMENT 5 MT 58-34 V	953. 792	1. 5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010
26+40	- 68+98	STH 71 UPPER LAYER SHOULDER	HMA PAVEMENT 5 MT 58-34 V	HMA PAVEMENT 5 MT 58-34 V	476. 896	1. 5	QMP AS PER SS 460
75+69	- 82+40	STH 71 LOWER LAYER MAINLINE, BRIDGE TO 108	HMA PAVEMENT 5 MT 58-34 V	MILLED SURFACE	175. 355	1. 75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010
75+69	- 82+40	STH 71 LOWER LAYER SHOULDER, BRIDGE TO 108	HMA PAVEMENT 5 MT 58-34 V	MILLED SURFACE	87. 677	1. 75	QMP AS PER SS 460
75+69	- 82+40	STH 71 UPPER LAYER MAINLINE, BRIDGE TO 108	HMA PAVEMENT 5 MT 58-34 V	HMA PAVEMENT 5 MT 58-34 V	150. 304	1. 5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460. 2010
75+69	- 82+40	STH 71 UPPER LAYER SHOULDER, BRIDGE TO 108	HMA PAVEMENT 5 MT 58-34 V	HMA PAVEMENT 5 MT 58-34 V	75. 152	1. 5	QMP AS PER SS 460
81+86	- 82+54	STH 71 LOWER LAYER MAINLINE AND SHOULDER	HMA PAVEMENT 5 MT 58-34 V	MILLED SURFACE	23. 694	1. 75	QMP AS PER SS 460
81+86	- 82+54	STH 71 UPPER LAYER MAINLINE AND SHOULDER	HMA PAVEMENT 5 MT 58-34 V	HMA PAVEMENT 5 MT 58-34 V	20. 309	1. 5	QMP AS PER SS 460

PROJECT NO: 7701-00-71 HWY: STH 71 COUNTY: JACKSON MI SCELLANEOUS QUANTITIES SHEET **E**

						HMA ADDIT	IONAL ITEMS	SUMMARY						
					Y STATION T		L CATI ON	HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP VOLUMETRICS 460.0105.S EACH	(PWL) TES STRIP DENS 460.0110. EACH	ITS TRANSFE ST VEHICLI ITY (7710-00-	R E 71)			
				0010	4+04 -	82+54 S	TH 71 	2	2	1				
						PROJECT TO	TALS =	2	2	1				
				RUMBLE STRIP	SUMMARY						DEAM C	SUARD SUMMAR	v	
	CATEGORY	CTATI ON	TO CTAI	ION LOCATIO	ASPHAL SHOULI RUMBLE S 2-LANE F 465.04 N LF	DER CENTERLINE TRIPS RUMBLE STRIPS RURAL 2-LANE RURAL							ADJUSTIN STEEL PLA BEAM GUA 614.040	ATE RD O
	0010 0010 0010 0010 0010	10+00 75+93 10+00 75+93	- 68+ - 80+ - 68+ - 79+	72 STH 71 35 STH 71 72 STH 71	9, 79 874 -	9 -	_	<u>_C</u>	0010 68 0010 68 0010 76	8+04 - 0 8+04 - 0 6+12 -	68+54 N 76+62 S	LOCATION W OF BRIDGE E OF BRIDGE W OF BRIDGE E OF BRIDGE	LF 50 50 50 50	REMARKS RT EAT LT EAT RT EAT LT EAT LT EAT
				OJECT TOTALS			_					JECT TOTALS		
									EROSION CO	NTROL SUMMAR	<u>:Y</u>			
		WATE	<u> </u>								TEMPORARY		SEEDI NG	
ATEGORY	LOCATI OI		024. 0100 MGAL	REMARKS			SALVAGED TOPSOI L	MULCHI NG	SILT FENCE	SILT FENCE MAINTENANCE	DI TCH CHECKS	FERTI LI ZER TYPE B	MI XTURE NO. 30	SEED WATER
0010	STH 71		18	3/4-IN	CATEGORY	LOCATI ON	625. 0500 SY	627. 0200 SY	628. 1504 LF	628. 1520 LF	628. 7504 LF	629. 0210 CWT	630. 0130 LB	
PRC	DJECT TO	- ΓAL =	18		0010	UNDI STRI BUTED	1, 000	1, 000	250	250	50	0. 63	18	12
						PROJECT TOTALS =	1, 000	1, 000	250	250	50	0.63	18	12
				_										
JECT NO	0: 7701-	00-71		HWY: STH 7	1	COUNTY: JACK	KSON	MIS	SCELLANEOUS	QUANTITIES				SHEET

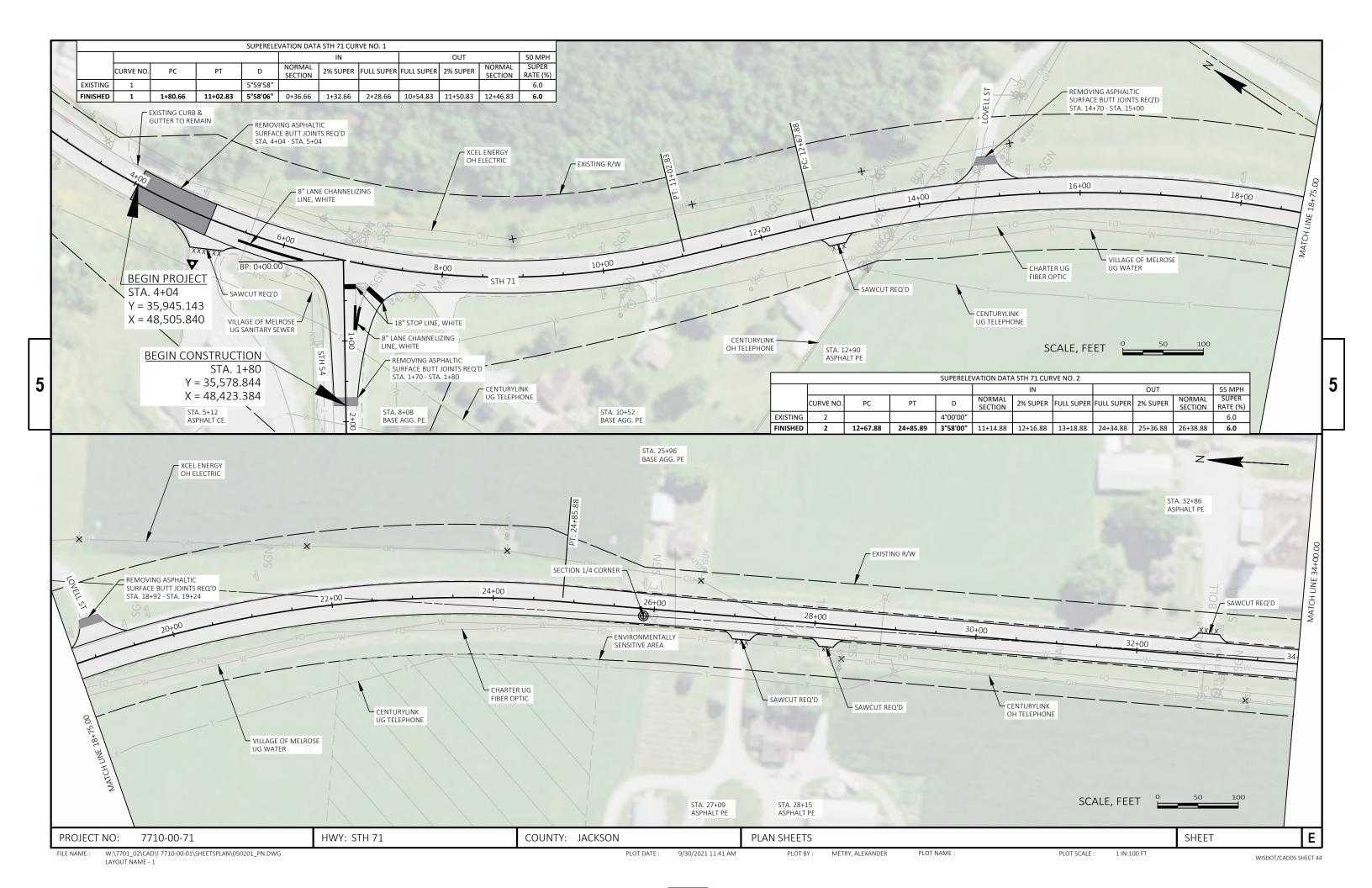
PAVEMENT MARKING SUMMARY

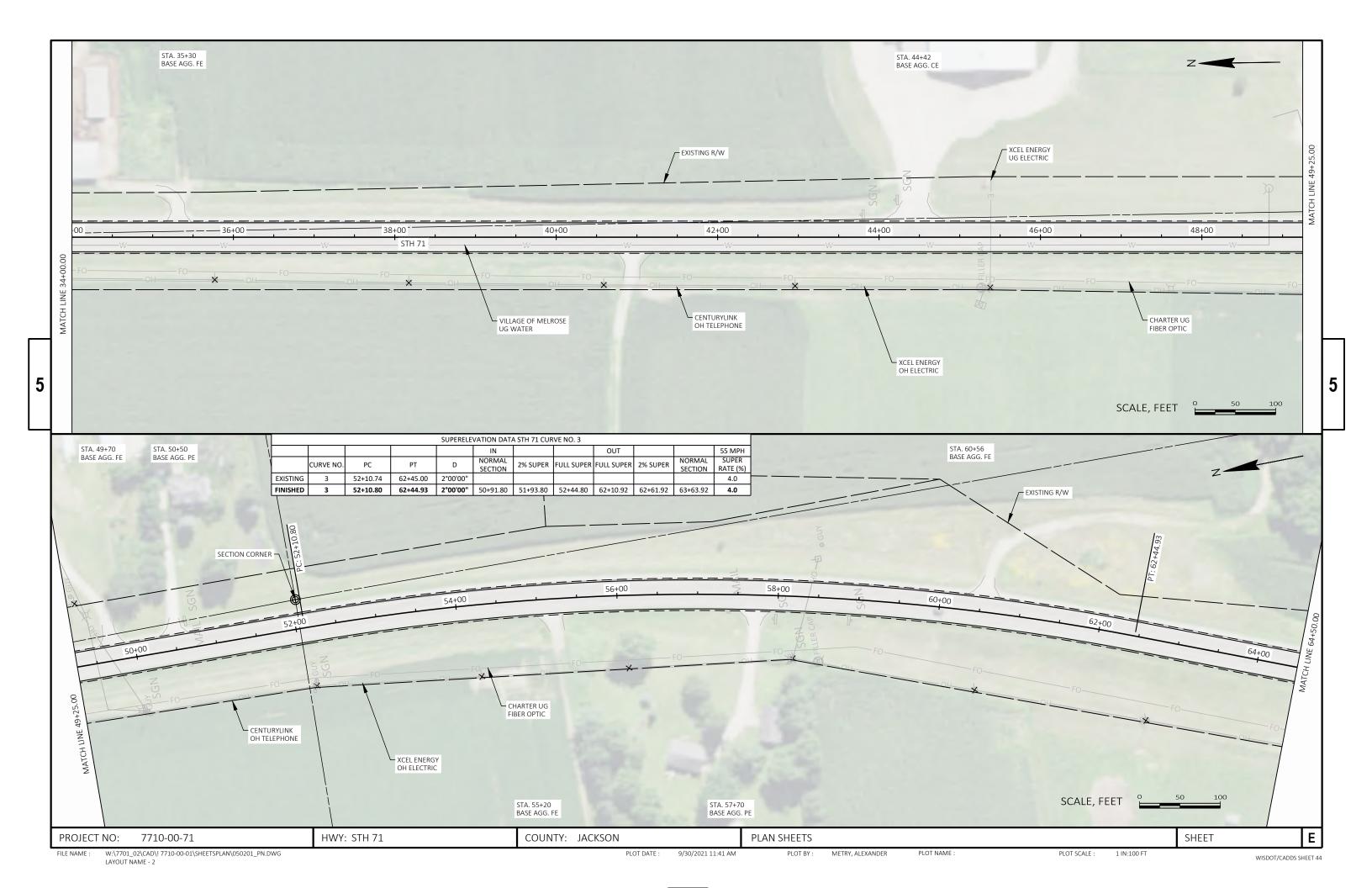
CATEGORY	STATI ON	TO	STATI ON	LOCATI ON	MARKING LINE EPOXY 4-INCH 646.1005 LF	MARKING LINE GROOVED WET REF EPOXY 4- INCH 646.1040 LF	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH 646.3545 LF	MARKING STOP LINE EPOXY 18- INCH 646.6120 LF	TEMPORARY MARKING LINE PAINT 4-INCH 649.0105 LF		
0010	4+04			STH 71 CL	504	_	_		1, 008	504	CENTERLINE SOLID - DOUBLE YELLOW
0010	4+04 6+99	_	6+56 7+16	STH 71 CL	34	-	-	-	68		CENTERLINE SOLID - DOUBLE YELLOW CENTERLINE SOLID - DOUBLE YELLOW
	0+99 7+49	-		STH 71 CL		-	-	-			CENTERLINE SOLID - DOUBLE YELLOW CENTERLINE SOLID - DOUBLE YELLOW
0010		_	22+14		2, 930	-	-	-	5, 860	2, 930	CENTERLINE SOLID - DOUBLE TELLOW CENTERLINE SOLID - YELLOW
0010	22+14	-	33+20	STH 71 CL	1, 106	-	-	_	2, 212	1, 106	
0010	22+14	-	33+20	STH 71 CL	277	-	-	_	177	88	CENTERLINE DASHED - YELLOW
0010	33+20	-	44+50	STH 71 CL	283	-	-	_	181	90	CENTERLINE DASHED - YELLOW
0010	44+50	-	55+90	STH 71 CL	285	-	-	_	182	91	CENTERLINE DASHED - YELLOW
0010	44+50	-	55+90	STH 71 CL	1, 140	-	-	-	2, 280		CENTERLINE SOLID - YELLOW
0010	55+90	-	58+80	STH 71 CL	580	-	-	-	1, 160		CENTERLINE SOLID - DOUBLE YELLOW
0010	58+80	-	69+72	STH 71 CL	273	-	=	-	175		CENTERLINE DASHED - YELLOW
0010	58+80	-	69+72	STH 71 CL	1, 092	-	-	_	2, 184		CENTERLINE SOLID - YELLOW
0010	69+72	-	75+69	BRIDGE B-27-74 CL	149	-	-	-	-	-	CENTERLINE DASHED - YELLOW
0010	75+69	-	81+51	STH 71 CL	582	-	-	-	1, 164		CENTERLINE SOLID - YELLOW
0010	75+69	-	81+51	STH 71 CL	146	-	-	_	93		CENTERLINE DASHED - YELLOW
0010	82+20	-	82+54	STH 71 CL	68	-	-	-	136		CENTERLINE SOLID - DOUBLE YELLOW
0010	317+68	-	318+34	STH 108 CL	17	-	-	-	11		CENTERLINE DASHED - YELLOW
0010	317+68	-	318+34	STH 108 CL	66	-	-	-	132		CENTERLINE SOLID - YELLOW
0010	4+04	-	6+28	STH 71 EL RT	-	229	-	-	-		EDGELINES SOLID - WHITE
0010	7+48	-	68+98	STH 71 EL RT	-	6, 142	-	-	-		EDGELINES SOLID - WHITE
0010	68+98	-	75+69	BRIDGE B-27-74 EL RT	-	671	-	-	-		EDGELINES SOLID - WHITE
0010	75+69	-	81+25	STH 71 EL RT	-	556	-	-	-		EDGELINES SOLID - WHITE
0010	4+04	-	14+40	STH 71 EL LT	-	1, 029	-	-	-		EDGELINES SOLID - WHITE
0010	15+29	-	18+70	STH 71 EL LT	-	349	-	-	-	-	EDGELINES SOLID - WHITE
0010	19+48	-	68+98	STH 71 EL LT	-	4, 959	-	-	-	-	EDGELINES SOLID - WHITE
0010	68+98	-	75+69	BRIDGE B-27-74 EL LT	-	671	-	-	-	_	EDGELINES SOLID - WHITE
0010	75+69	-	81+14	STH 71 EL LT	-	546	-	-	-	_	EDGELINES SOLID - WHITE
0010	82+29	-	82+54	STH 71 EL LT	-	28	-	-	-	-	EDGELINES SOLID - WHITE
0010	317+68	-	317+86	STH 108 EL LT	-	18	-	-	-		EDGELINES SOLID - WHITE
0010	0+35	-	1+80	STH 54 CL	290	-	-	-	580	290	CENTERLINE SOLID - DOUBLE YELLOW
0010	0+45	-	1+80	STH 54 EL	-	136	-	_	-	_	EDGELINES SOLID - WHITE
0010	0+46	_	1+80	STH 54 EL	-	140	-	_	-	-	EDGELINES SOLID - WHITE
0010	5+44	_	6+27	STH 54/71 INT.	-	-	84	_	-	_	CHANNELIZING RT TURN LANE LINE - WHITE
0010	6+83	_	6+98	STH 54/71 INT.	-	-	-	15	-	_	STOP LINE - WHITE
0010	7+12	_	7+36	STH 54/71 INT.	-	-	-	25	-	_	STOP LINE - WHITE
0010	0+56	_	0+96	STH 54/71 INT.	-	-	80	_	-		CHANNELIZING ISLAND - WHITE
0010	81+55	-	81+68	STH 71/180 INT.	-	-	-	16	-		STOP LINE - WHITE
				PROJECT TOTALS =	9, 822	15, 474	164	56	17, 603	8, 802	<u>-</u>

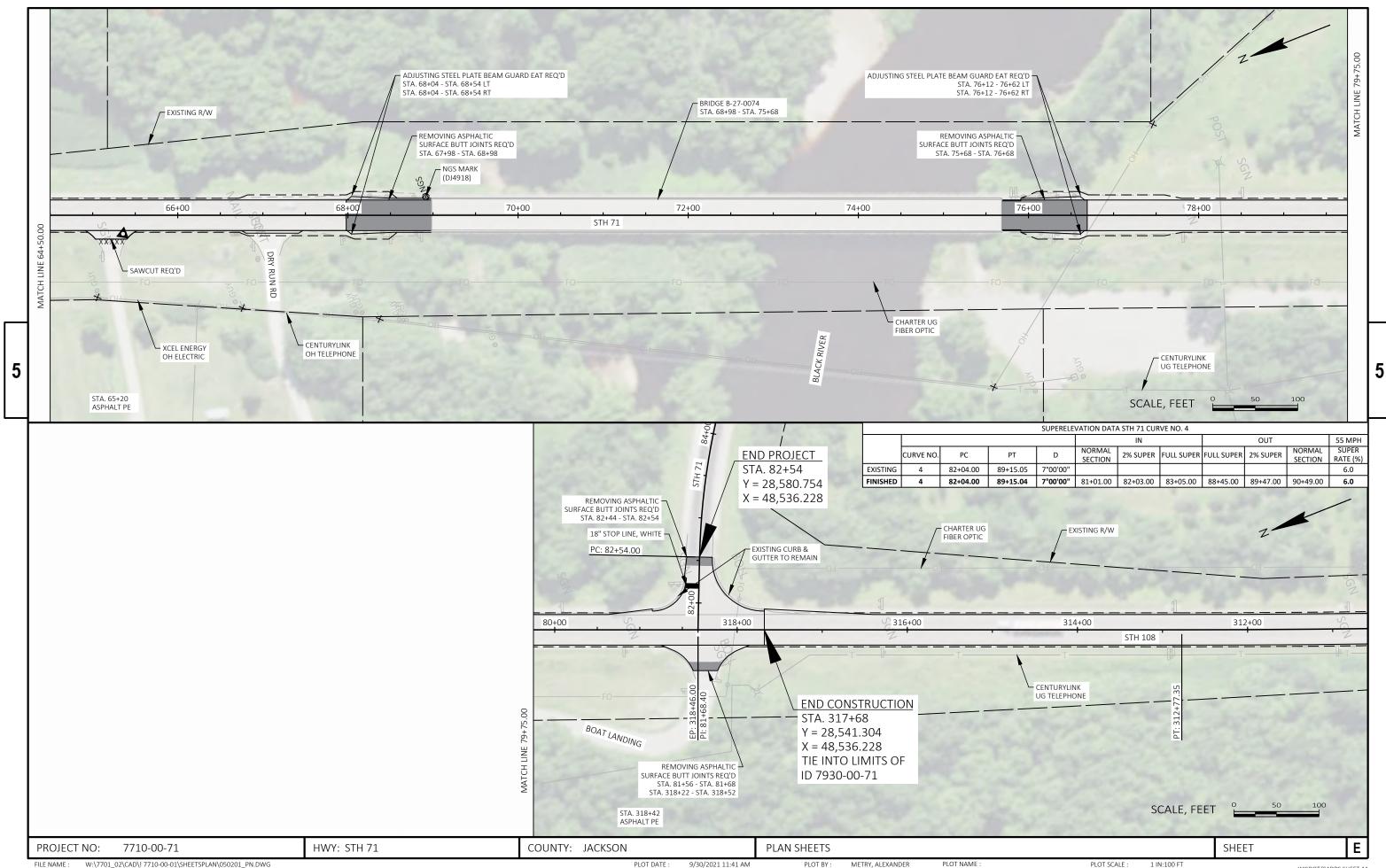
NOTES: TEMPORARY MARKING PAINT PLACED IN TWO APPLICATIONS (MILLED & BINDER SURFACE) TEMPORARY MARKING EPOXY PLACED IN ONE APPLICATIONS (FINAL SURFACE)

PROJECT NO: 7701-00-71 HWY: STH 71 COUNTY: JACKSON MISCELLANEOUS QUANTITIES SHEET **E**

MOBILIZATION ER	OSION CONTROL			MOVING SIGN SUMMARY					
MOBI LI ZATI EROSI ON CONTROL 628. 1905 CATEGORY LOCATI ON EACH 0010 UNDI STRI BUTED 2	EROSI ON CONTROL 628. 1910	REMARKS	_	<u>CATEGOR</u> 0010	UNDI STRI BUTED	MOVI NG SI GNS TYPE I I 638. 2102 EACH 4	MOVI NG SMALL SI GN SUPPORTS 638. 4000 EACH 4	REMARKS NO PASSING ZONE	
PROJECT TOTALS = 2	2				PROJECT TOTALS :	= 4	4		
			TRAFFIC CON	TROL SUMMARY	***				
<u>CATEGORY STATION TO STA</u> 0010 4+04 - 82	TION LOCATION	DRUMS 643.0300 DAY	TRAFFIC CONTRO SIGNS 643.0900 DAY	TRAFFIC CONTROL 643.5000 EACH	TRAFFIC CONTROL SIGNS PCMS 643.1050 DAY	SEE SDD FOR T	REMARKS RAFFIC CONTRO	L FOR LANE	
0010 4+04 - 82 0010 63+60 - 81		38	- 10	0. 5 -	-	SEE SDD FOR TRA	TH FLAGGING OF AFFIC CONTROL UNDIVIDED RO	FOR WORK ON	
*** PLACE ONE WEEK PRIOR	PROJECT TOTAL =	38	10	0.5	14				
LOCATING NO-PASSI	NG ZONES					SAWING ASPI	<u>IALT</u>		
	OCATION M	0100 <u> </u> 48 48		<u>C.</u>	0010 4+93 0010 12+80 0010 26+99 0010 28+06 0010 32+75 0010 65+03	TO STATION - 5+32 - 13+01 - 27+21 - 28+25 - 33+00 - 65+40	LOCATION RT CE RT PE RT PE RT PE LT PE RT PE	690. 0150 <u>LF</u> 42 21 22 18 26 37	
<u>CONSTRUCTI ON</u>	STAKING SUMMARY						ROJECT TOTAL	_ = 166	
CATEGORY STATION TO STATION LOCATION	CONSTRUCTION STAKING RESURFACING REFERENCE 650.8000 LF		L CONTROL 910	S	AWING IS INCIDENT LANDMARK	REFERENCE MONU		<u>AL</u>	
0010 4+04 - 82+54 STH 71	7, 850	L3	·	_	CATEGORY STA	TION LOCATIO		. 0060. 01 EACH	
PROJECT TOTAL =	7, 850	1			0010 25+8	9. 14 RT		1	
OJECT NO: 7701-00-71 HWY: S		COUNTY: JAC	CKSON	MI SCELLANEO	US QUANTITIES			SHEET	





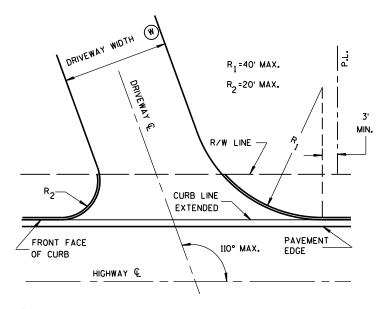


LAYOUT NAME - 3

WISDOT/CADDS SHEET 44

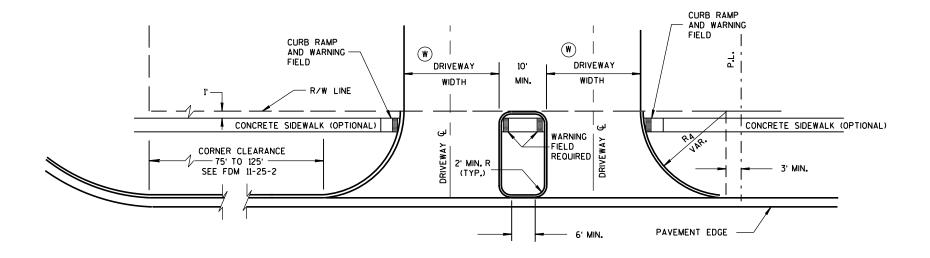
Standard Detail Drawing List

08D20-01	DRIVEWAYS WITH CURB & GUTTER RETURNS
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08D22-01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
13A10-02A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13C19-03	HMA LONGITUDINAL JOINTS
14B15-11A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B24-09A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14в24-09в	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-09C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C08-20B	PAVEMENT MARKING (TURN LANES)
15C08-20C	PAVEMENT MARKING (TURN LANES)
15С11-09В	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
15D45-03	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL
16A01-07	LANDMARK REFERENCE MONUMENTS AND COVERS



SKEWED DRIVEWAY DETAILS (COMMERCIAL AND NON-COMMERCIAL)

SIDEWALK NOT SHOWN



DRIVEWAY LOCATION AND SPACING DETAILS SIDEWALK SHOWN

NOTES

A MAXIMUM RADIUS OF 10 FEET SHALL BE USED FOR NON-COMMERCIAL PRIVATE ENTRANCES. RADII FOR COMMERCIAL DRIVEWAYS SHALL BE DETERMINED BY THE ENGINEER BASED ON TRAFFIC AND DRIVEWAY PERMIT RESTRICTIONS.

THE MINIMUM ANGLE OF INTERSECTION BETWEEN THE DRIVEWAY AND HIGHWAY CENTERLINES SHALL BE 70°.

ALL CURVILINEAR PRIVATE ENTRANCE OUTLINES SHALL BE CONTAINED WITHIN THE HIGHWAY R/W.

NO DRIVEWAY SHALL BE BUILT WITHIN 3 FEET OF THE PROPERTY LINE EXCEPT FOR EXISTING JOINT DRIVEWAY SHARED BY TWO OWNERS.

W DRIVEWAY WIDTHS:

COMMERCIAL - 35' MAX., 16' MIN.

RESIDENTIAL AND - 24' MAX., 12' MIN. NON-COMMERCIAL

DRIVEWAYS WITH **CURB & GUTTER RETURNS**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

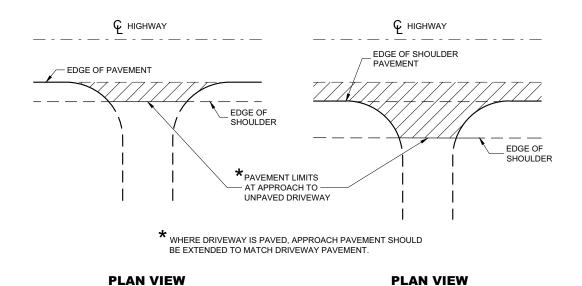
FHWA

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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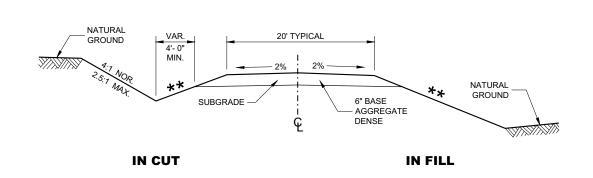


RURAL DRIVEWAY INTERSECTION DETAIL (NO CURB AND GUTTER OR SIDEWALK)

(PAVED SHOULDER ON HIGHWAY)

IN CUT, PLACE THE LOW POINT OF THE DRIVEWAY PROFILE OVER THE DITCH FLOWLINE LANE SHOULDER 12% URBAN DES. MAX. 14% RURAL DES. MAX. 15% MAX. NATURAL SHOULDER GROUND POINT IN CUT - MATCH EXISTING PAVED APPROACH IN FILL MAINTAIN SHOULDER SLOPE 12% URBAN DES. MAX. 14% RURAL DES. MAX. 15% MAX. CULVERT PIPE WHERE REQUIRED

TYPICAL DRIVEWAY PROFILES

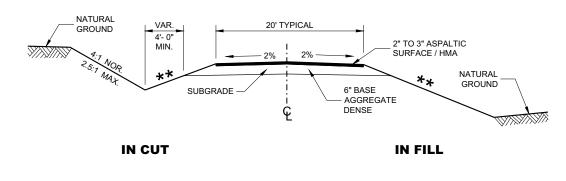


TYPICAL CROSS SECTION FOR

PRIVATE DRIVE OR FIELD ENTRANCE **AGGREGATE SURFACE**

(UNPAVED SHOULDER ON HIGHWAY)

** SLOPE CAN VARY WITH SPEED. SEE 11-45-30.6.2 POSTED SPEED MAX. SLOPE MPH <35 4:1 ≥ 35 TO < 60 6:1 10:1 ≥60



TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

DRIVEWAYS WITHOUT CURB AND GUTTER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED December 2017 DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

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08D21

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SDD 08D21

DESIGN WILL DETERMINE FINAL DRIVEWAY ASPHALTIC THICKNESS BASED ON TYPE OF USAGE AND LOADINGS.

EXISTING ASPHALTIC SURFACE DRIVEWAY — 8' TO 10' SHOULDER —= HMA PAVEMENT - 5' TO 20' -5' TO 7'-OVERLAY 2.00% 4.00% VARIES - EXISTING HMA PAVEMENT REMOVE EXISTING ASPH. PAV'T EXISTING BASE & BASE COURSE TO A DEPTH AGGREGATE DENSE SUFFICIENT TO PLACE 2" TO 3" ASPHALTIC SURFACE & 6" 2" TO 3" ASPHALTIC SURFACE (1) BASE AGGREGATE DENSE 6" BASE AGGREGATE MATCH EXISTING DRIVEWAY DENSE (MAY BE INCREASED FOR CLAY SUBGRADES)

PLAN VIEW

HALF SECTION

— 8' TO 10' SHOULDER ─ 1 3' TO 5' 5' TO 20' - 5' TO 7'— HMA PAVEMENT OVERLAY 2.00% 4.00% VARIES 6" BASE AGGREGATE - DENSE (MAY BE INCREASED FOR CLAY SUBGRADES) _ EXISTING HMA PAVEMENT REMOVE EXISTING BASE COURSE EXISTING BASE AGGREGATE TO A DEPTH SUFFICIENT TO -PLACE 6" BASE AGGREGATE DENSE EXISTING CRUSHED - BASE AGGREGATE DENSE

PLAN VIEW HALF SECTION

MATCH EXISTING DRIVEWAY

PROFILE VIEW

RURAL ENTRANCE
WITH ASPHALTIC SURFACE

RESURFACING PROJECTS

PROFILE VIEW

RURAL ENTRANCE
WITH AGGREGATE SURFACE

6" BASE AGGREGATE DENSE RESURFACING PROJECTS

DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

FHWA

December. 2016 /S/ Rodney Taylor
DATE ROADWAY STANDARDS DEVELOPMENT

UNIT SUPERVISOR

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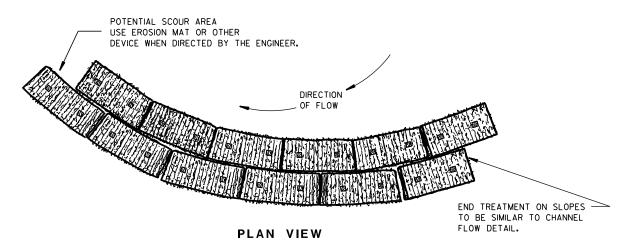
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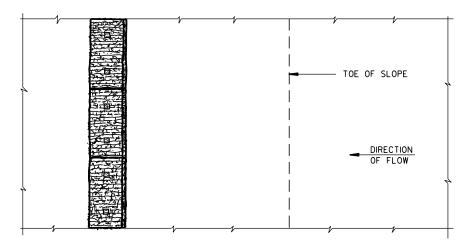
GENERAL NOTES

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.

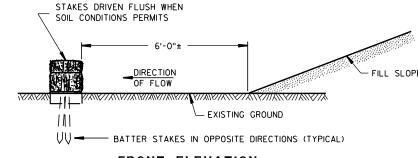
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF **EROSION BALES / TEMPORARY** DITCH CHECKS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

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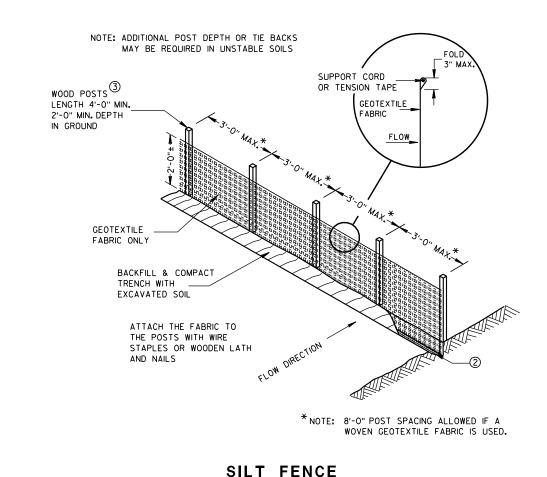
TYPICAL APPLICATION OF SILT FENCE

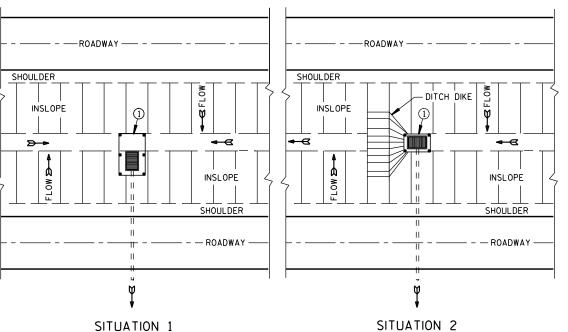
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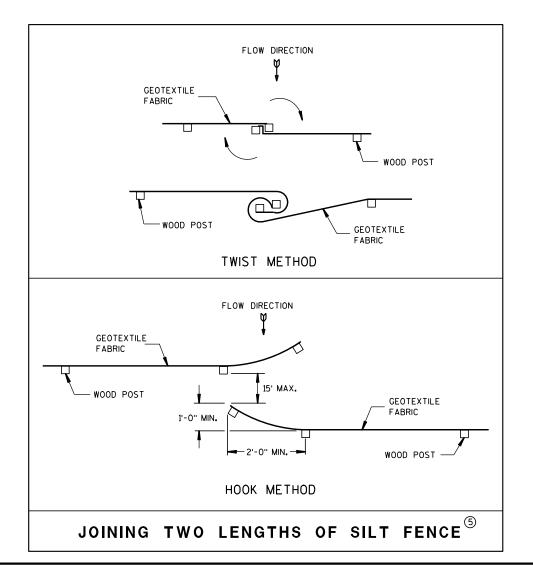
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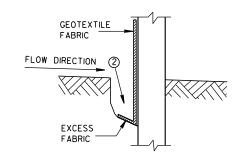
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



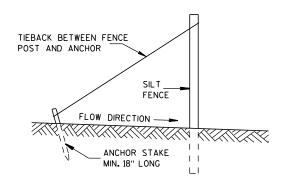
GENERAL NOTES

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

- \bigcirc HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

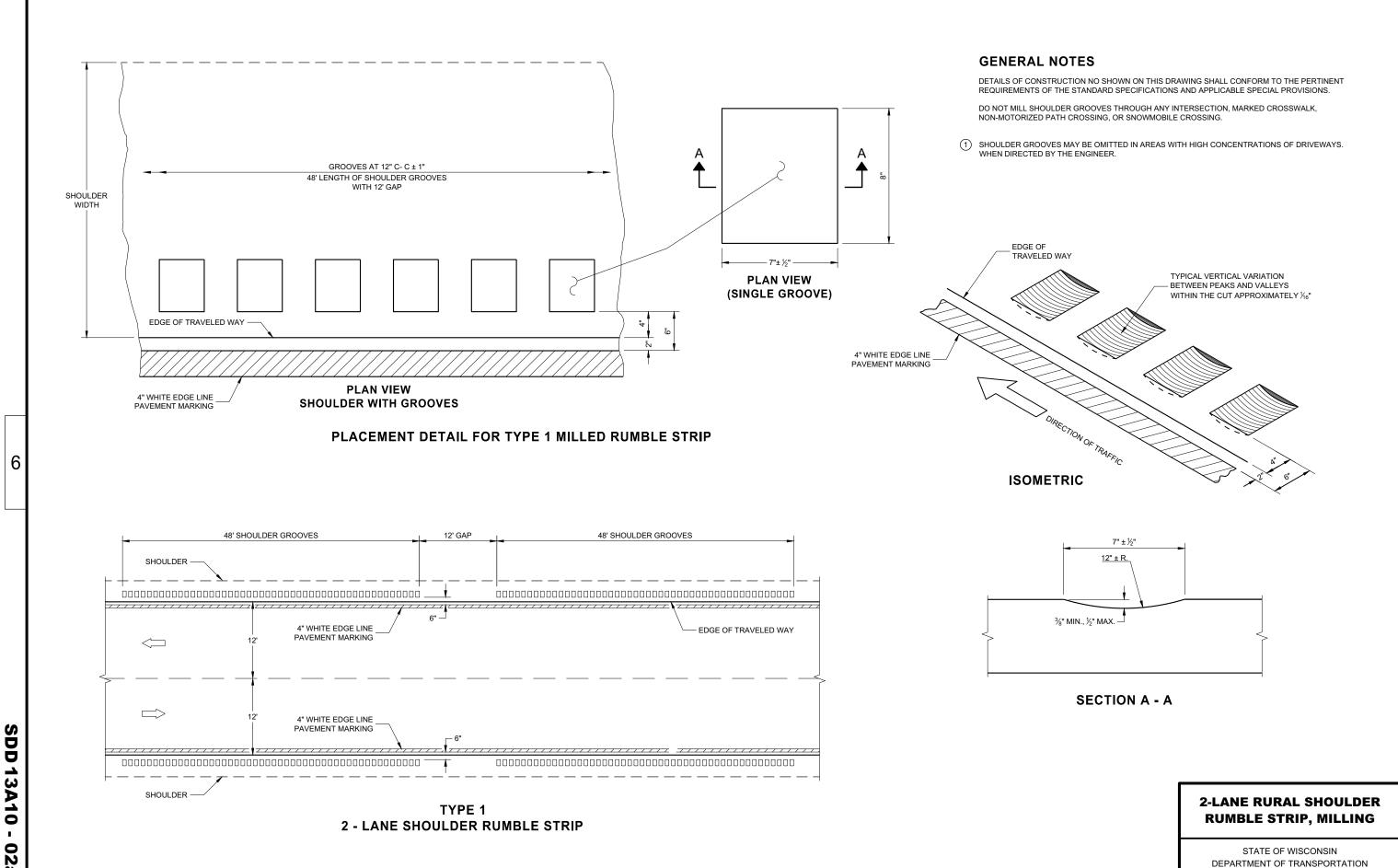
SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-29-05
DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

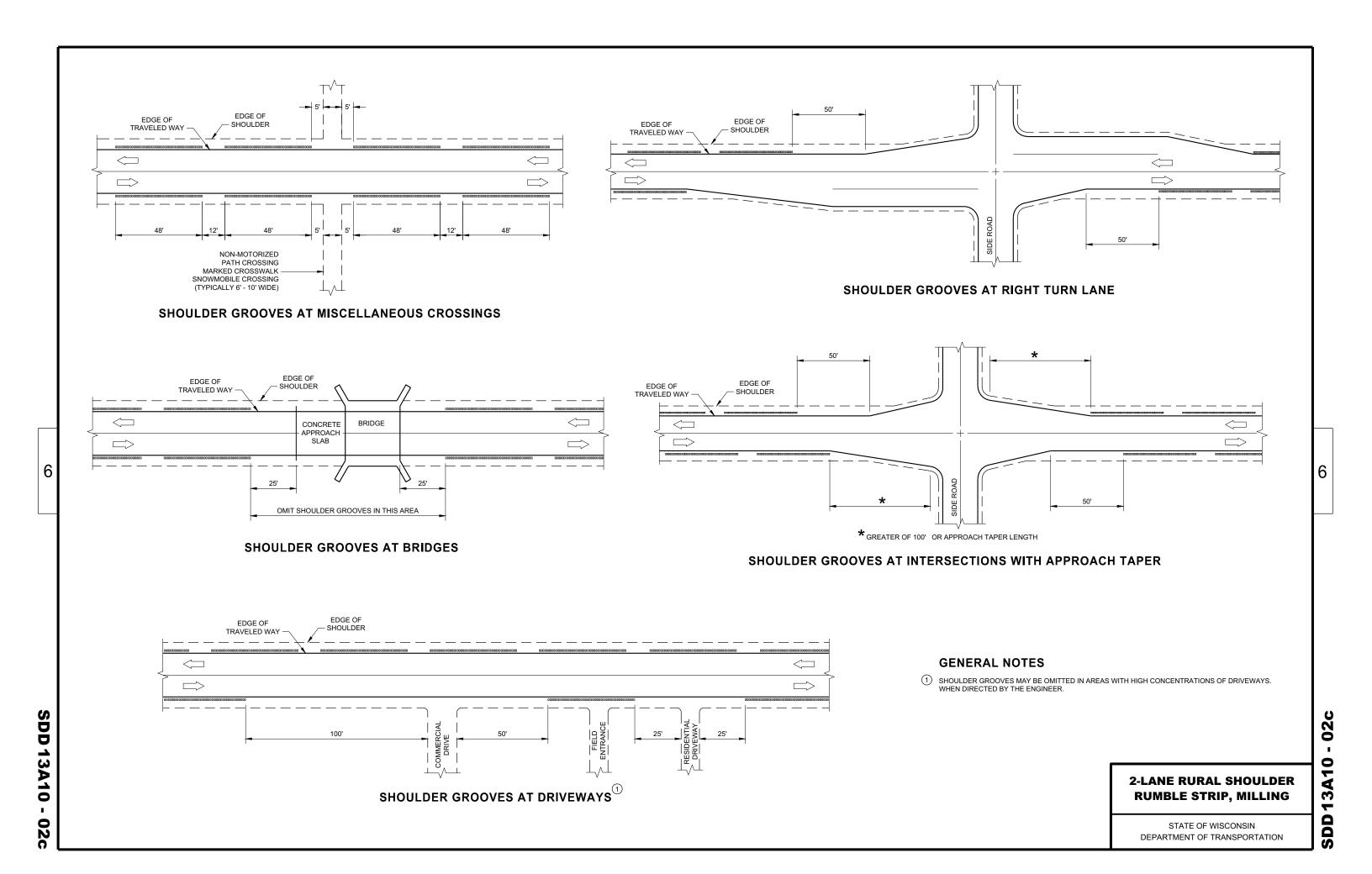
D.D. 8 E 9-6

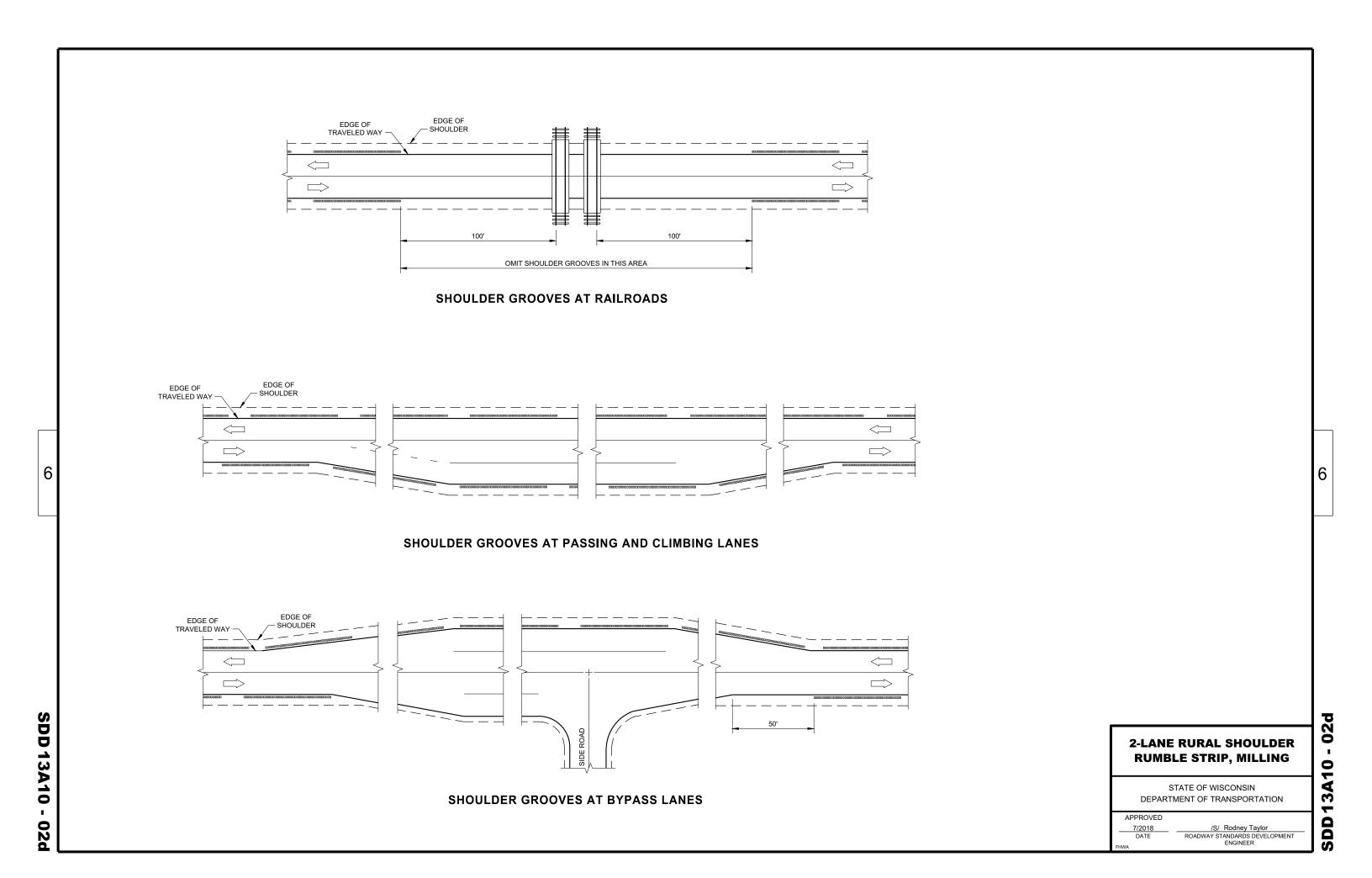


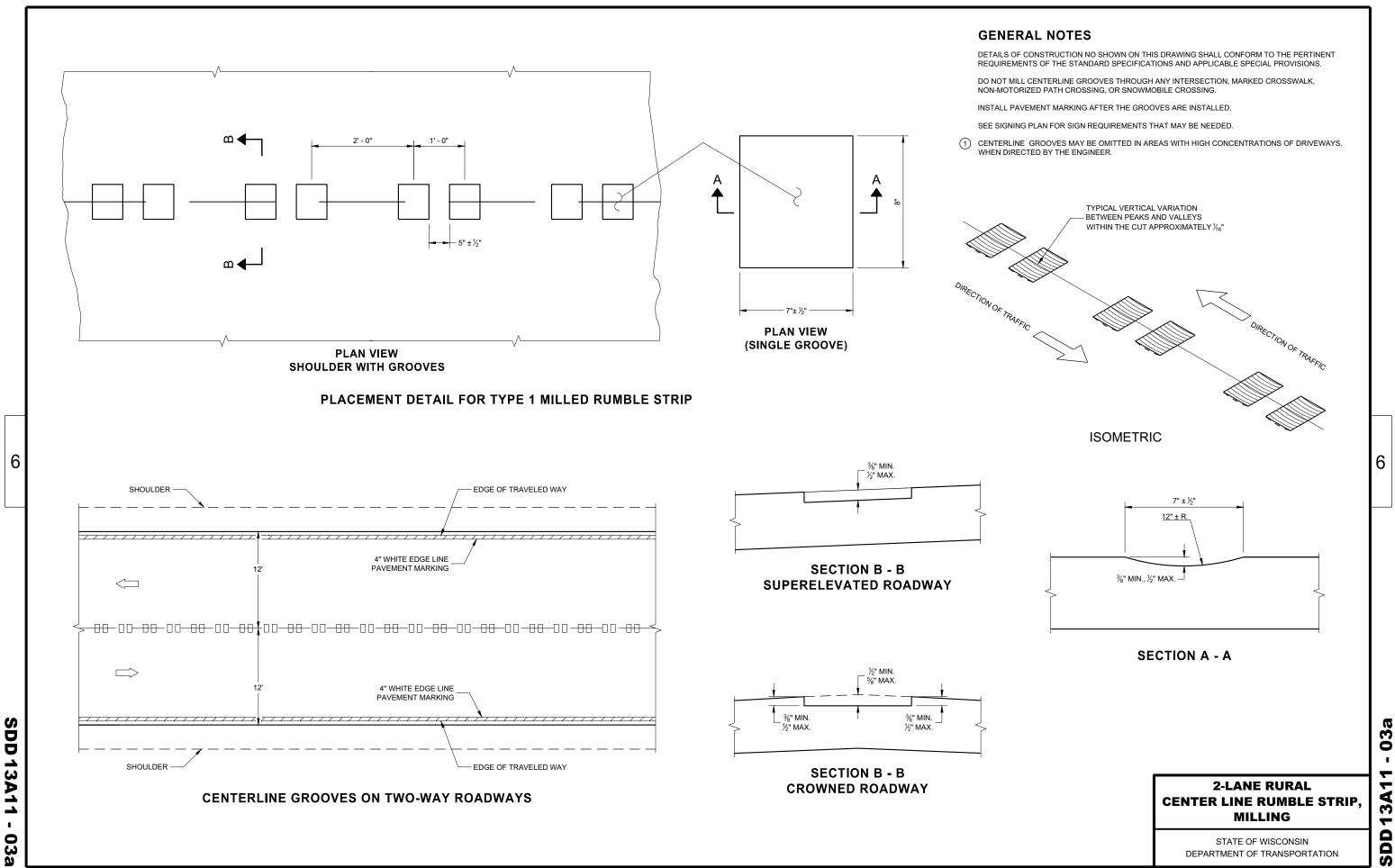
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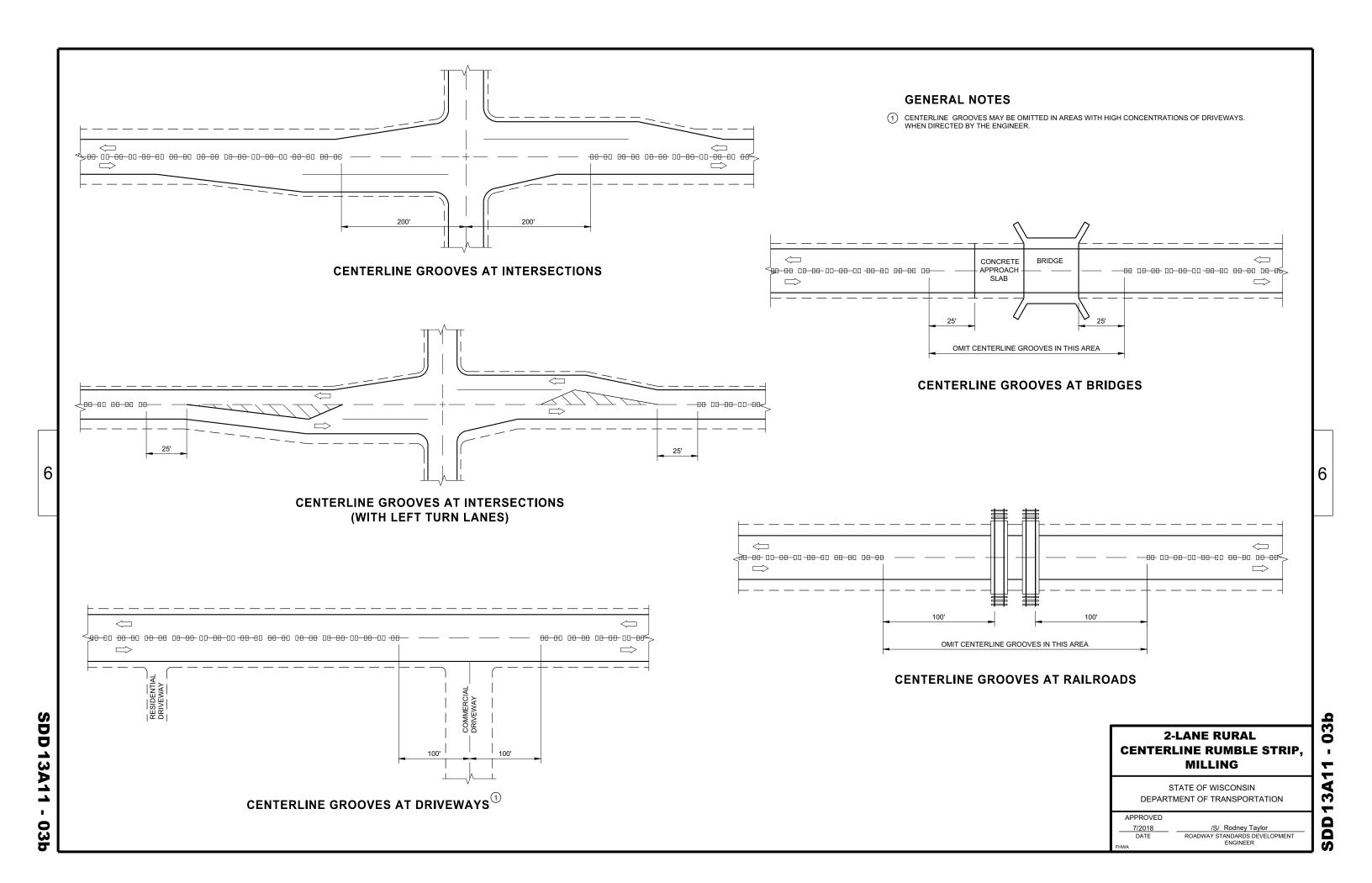
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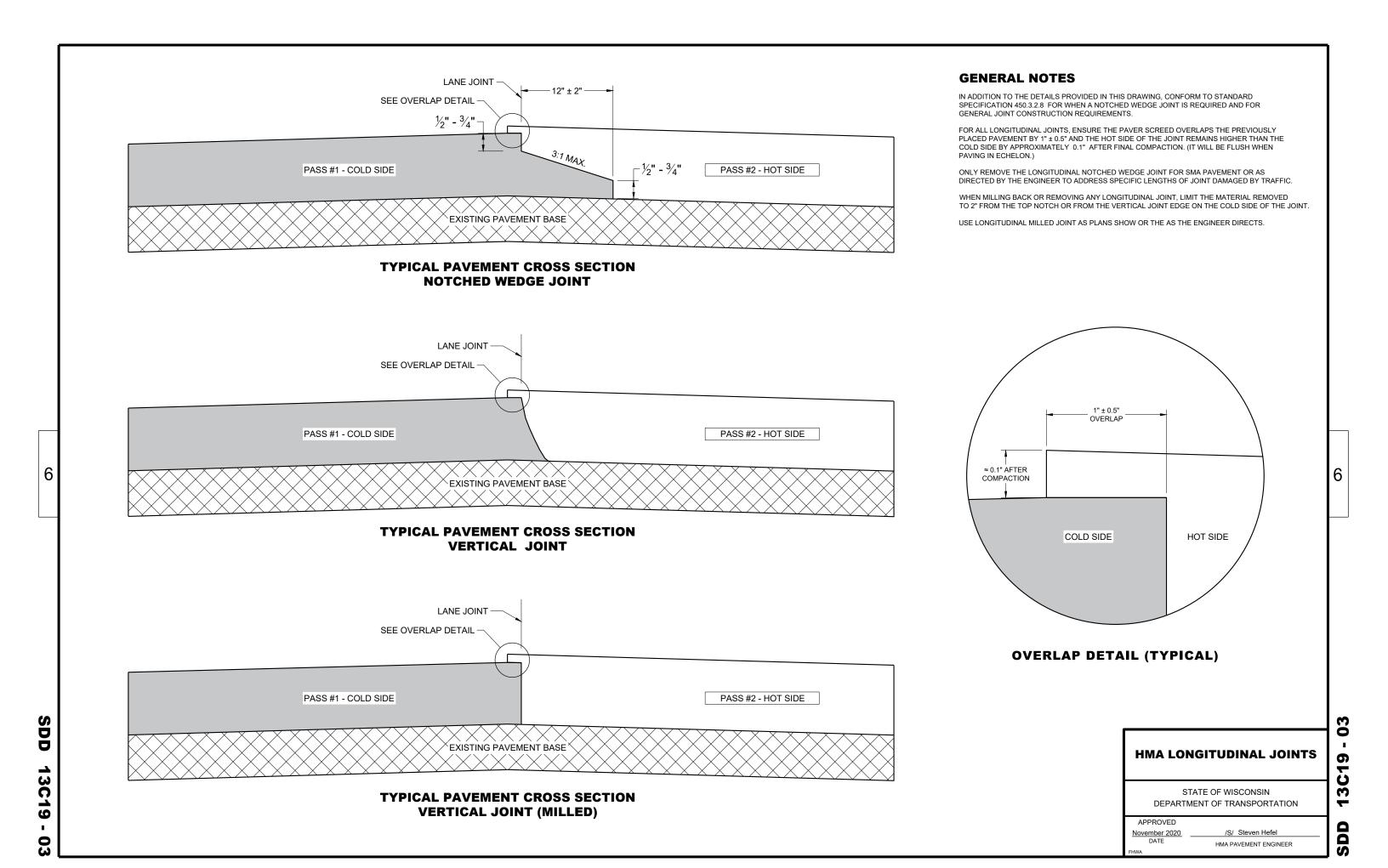


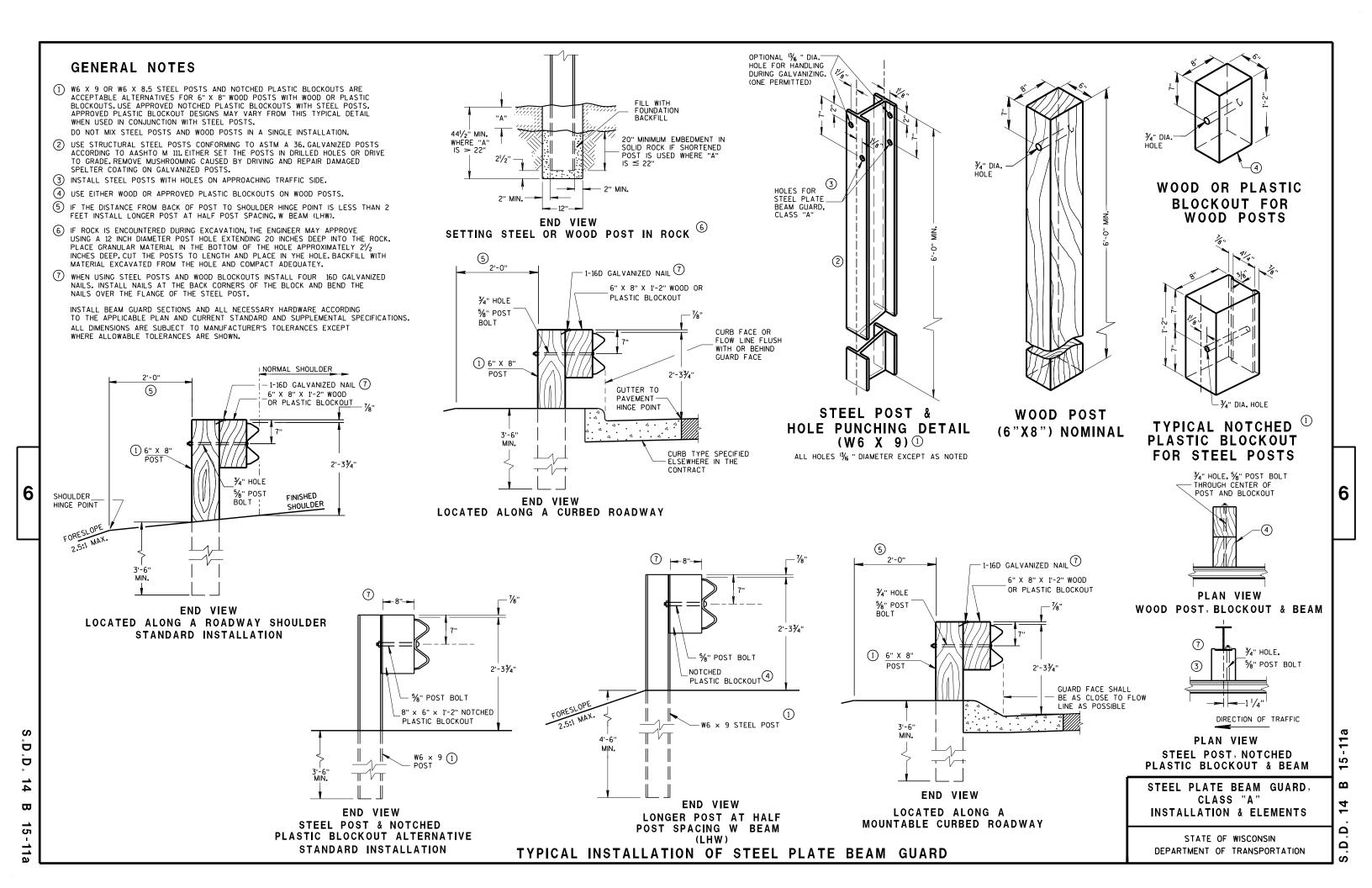




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POST SPACING STANDARD INSTALLATION

12'-6" OR 25'-0"

FRONT VIEW

SECTION THRU W BEAM

SYMMETRICAL

 $\frac{3}{4}$ " × $2\frac{1}{2}$ "
POST BOLT SLOT

The shoulder properties of the state of the

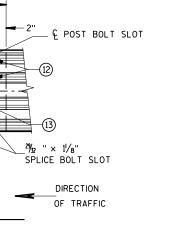
BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

121/2" LAP

GENERAL NOTES

FURNISH GUARDRAIL DEFLECTORS FROM APPROVED PRODUCTS LIST.

- 9 DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINA. START REFLECTORS AT POST *9 AND SPACE EVENLY EVERY 100 FEET (MAX.) TO THE END OF GUARDRAIL RUN, USING A MINIMUM OF 3 REFLECTORS.
- (12) 8 1/8" \$ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
- 3 %" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH %" DIA. F844 FLAT WASHER UNDER NUT.



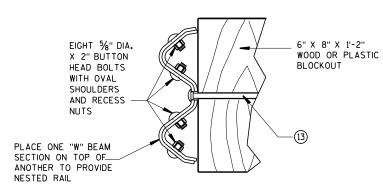
FRONT VIEW
BEAM SPLICE AT STEEL POST

NOTCHED

PLASTIC

BLCKOUT

TYPICAL SPLICING DETAILS
OF STEEL PLATE BEAM GUARD



NESTED W BEAM (NW)

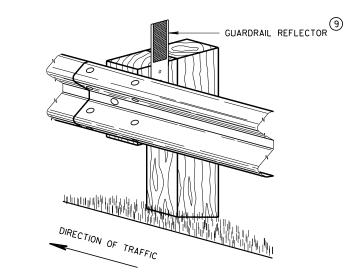
USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

EFFECTIVE LENGTH OF BEAM 3'-11/2" C-C POST POST POST SPACING SPACING SPACING SPACING SPACING FINISHED SHOULDER EFFECTIVE LENGTH OF BEAM 3'-11/2" C-C BOST SPACING SPACING SPACING SPACING SPACING SPACING TRAFFIC

FRONT VIEW

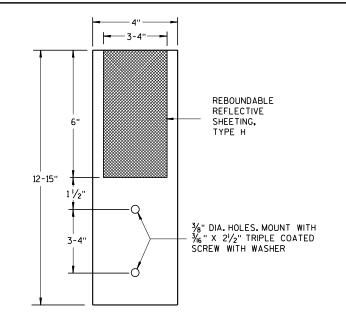
POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)

* USE DOUBLE SIDED WHITE GUADRAIL REFLECTORS ON ROADWAYS WITH BI-DIRECTIONAL TRAFFIC (NO MEDIAN). USE SINGLE SIDED WHITE (RIGHT SIDE) AND SINGLE SIDED YELLOW (LEFT SIDE) ON ROADWAYS WITH MEDIAN SEPARATION.



4" X 12" GUARDRAIL REFLECTOR DETAIL

AND TYPICAL INSTALLATION *



4"x 12" GUARDRAIL REFLECTOR

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

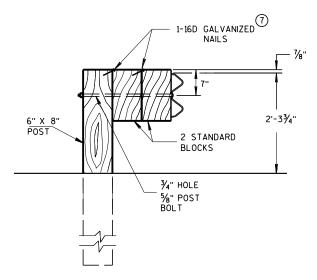
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S.D.D. 14 B 15

D.D. 14

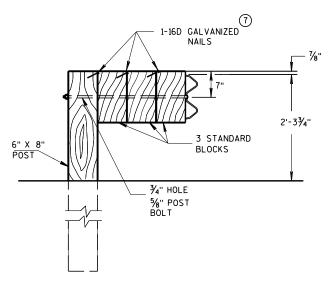
15-11b

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DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

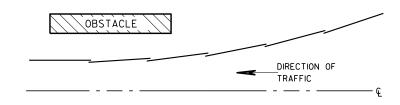


DETAIL FOR TRIPLE BLOCKS

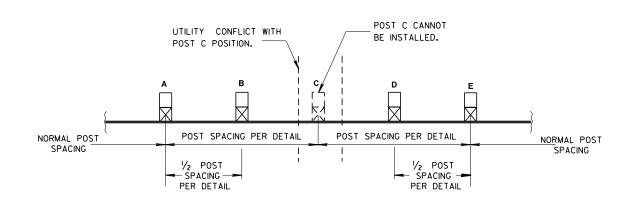
TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.



PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017

DATE

FHWΔ

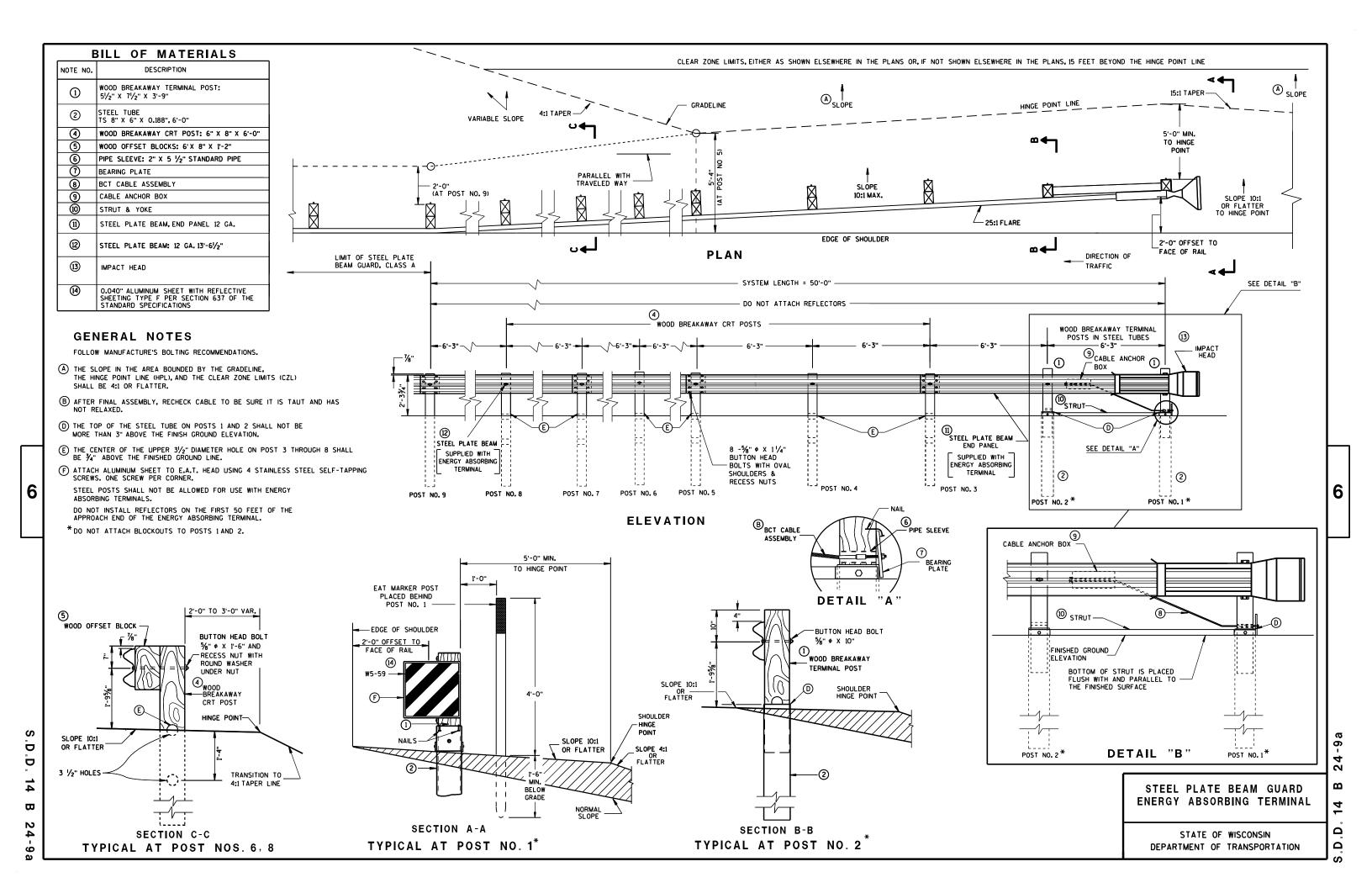
/S/ Rodney Taylor

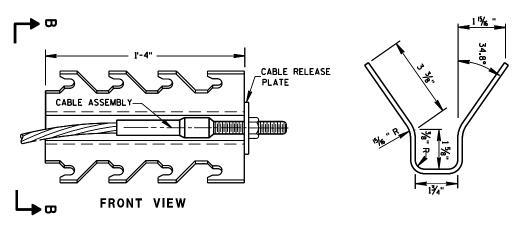
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

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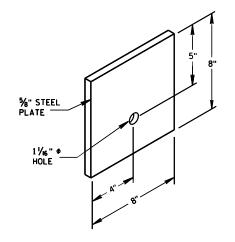
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SECTION B-B

(9) CABLE ANCHOR BOX



[⊙]STEEL BEARING PLATE

STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

6

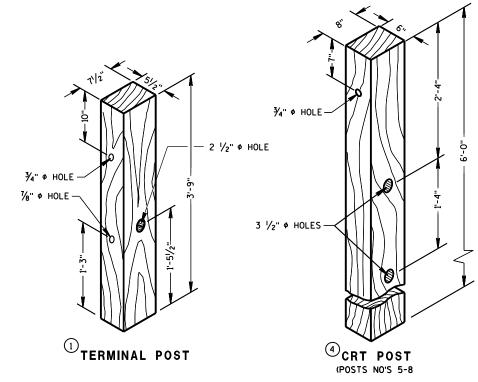
24-9b

14

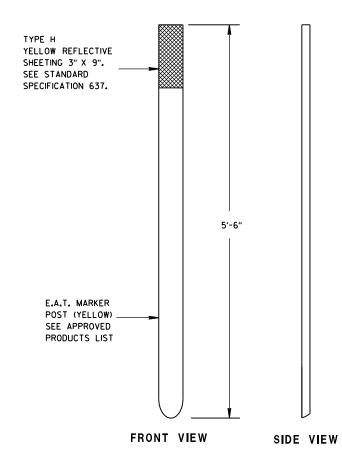
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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

(4) REFLECTIVE SHEETING DETAILS



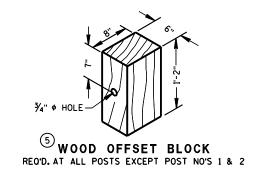
WOOD BREAKAWAY POSTS



E.A.T. MARKER POST

GENERAL NOTES

WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 1/2" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.



6

24-90

 $\mathbf{\omega}$

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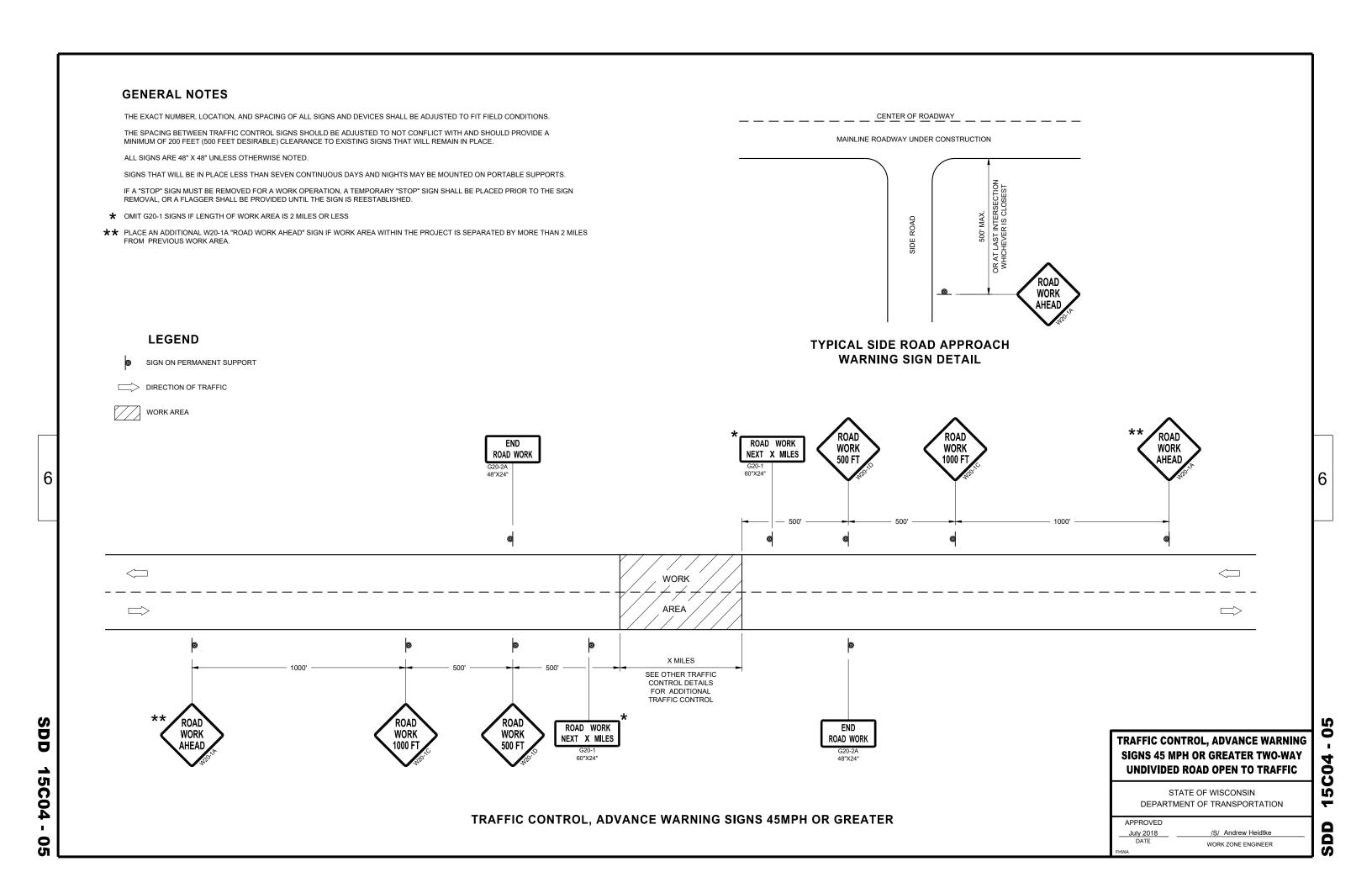
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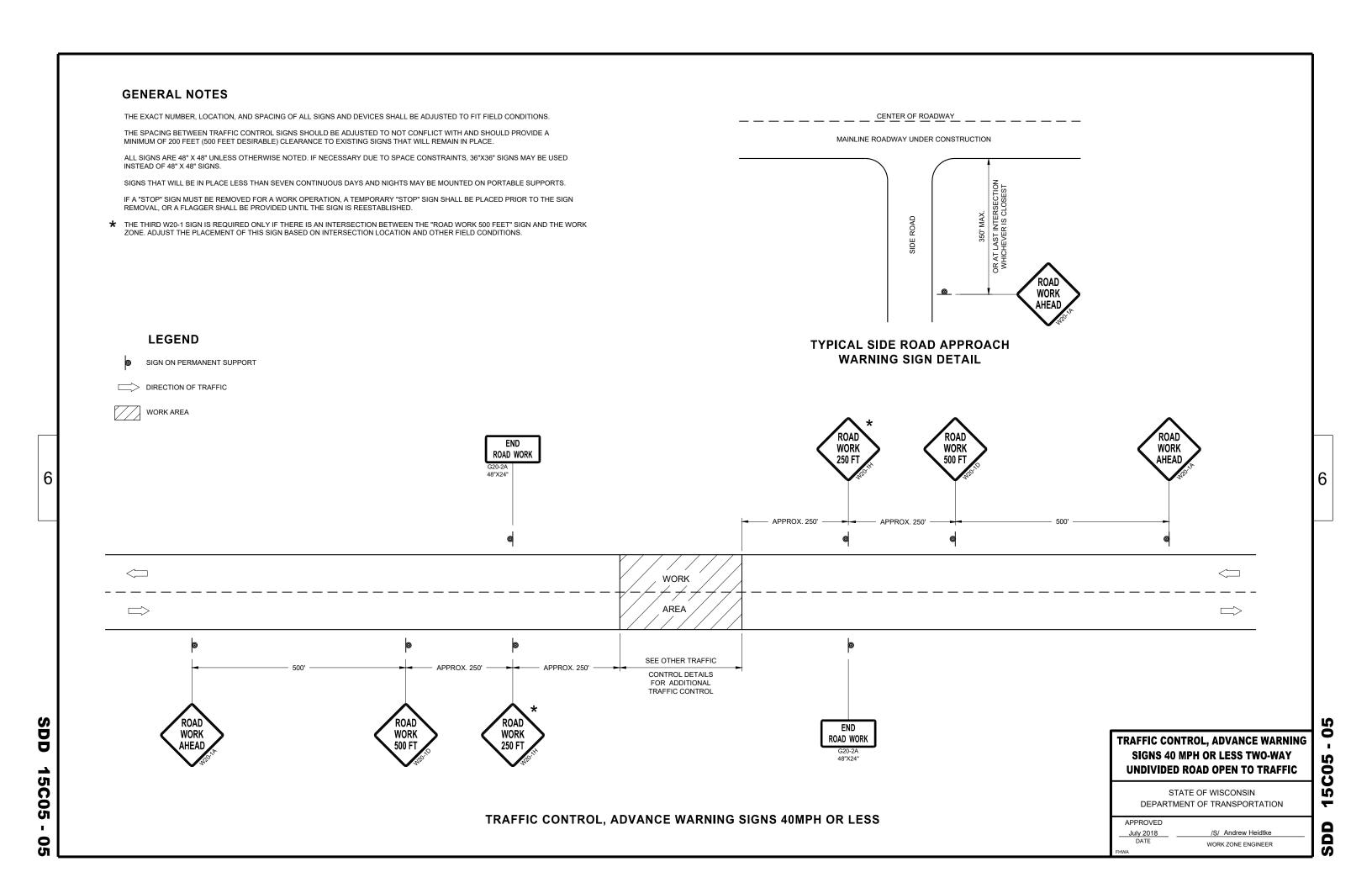
STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

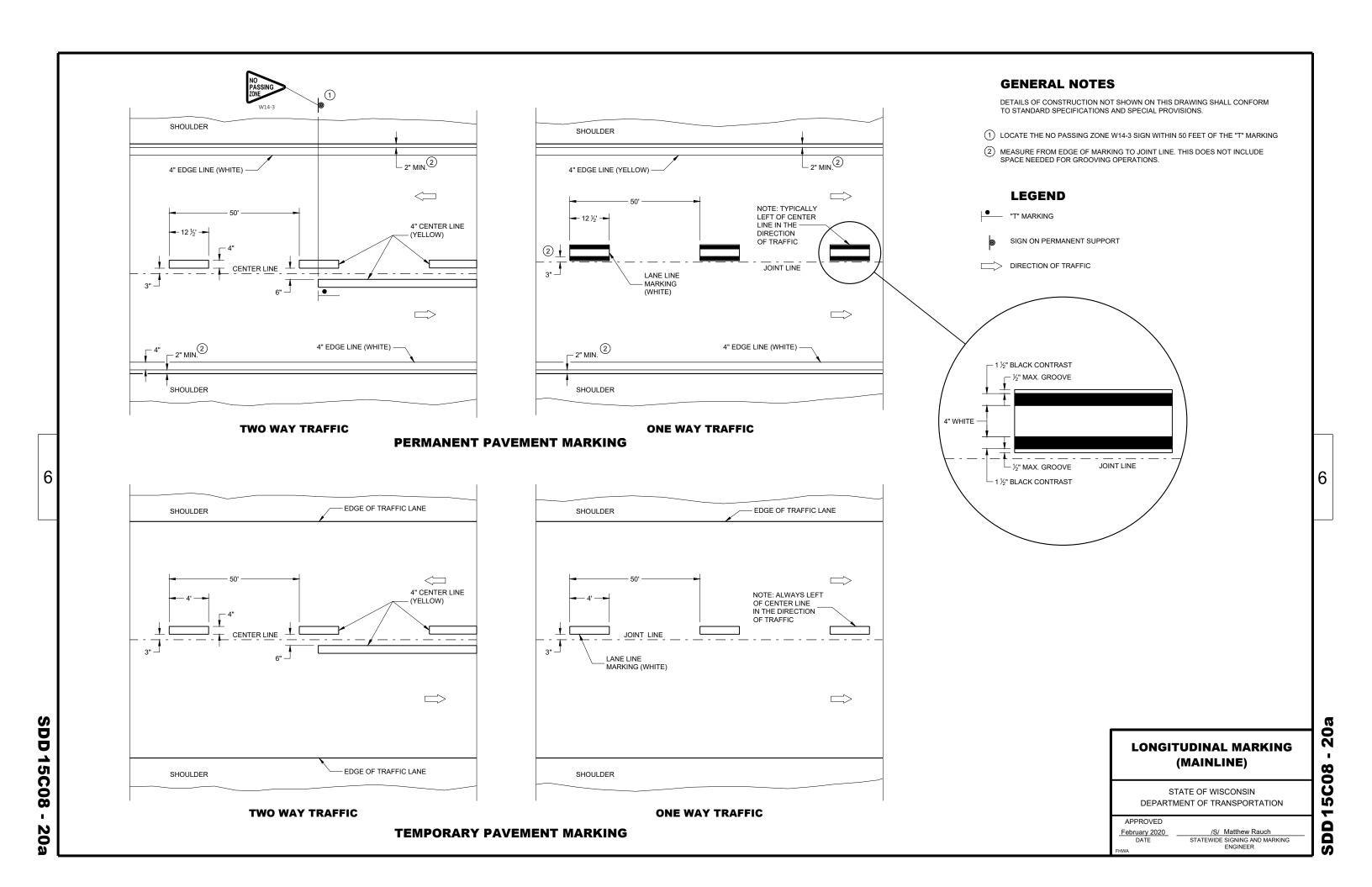
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

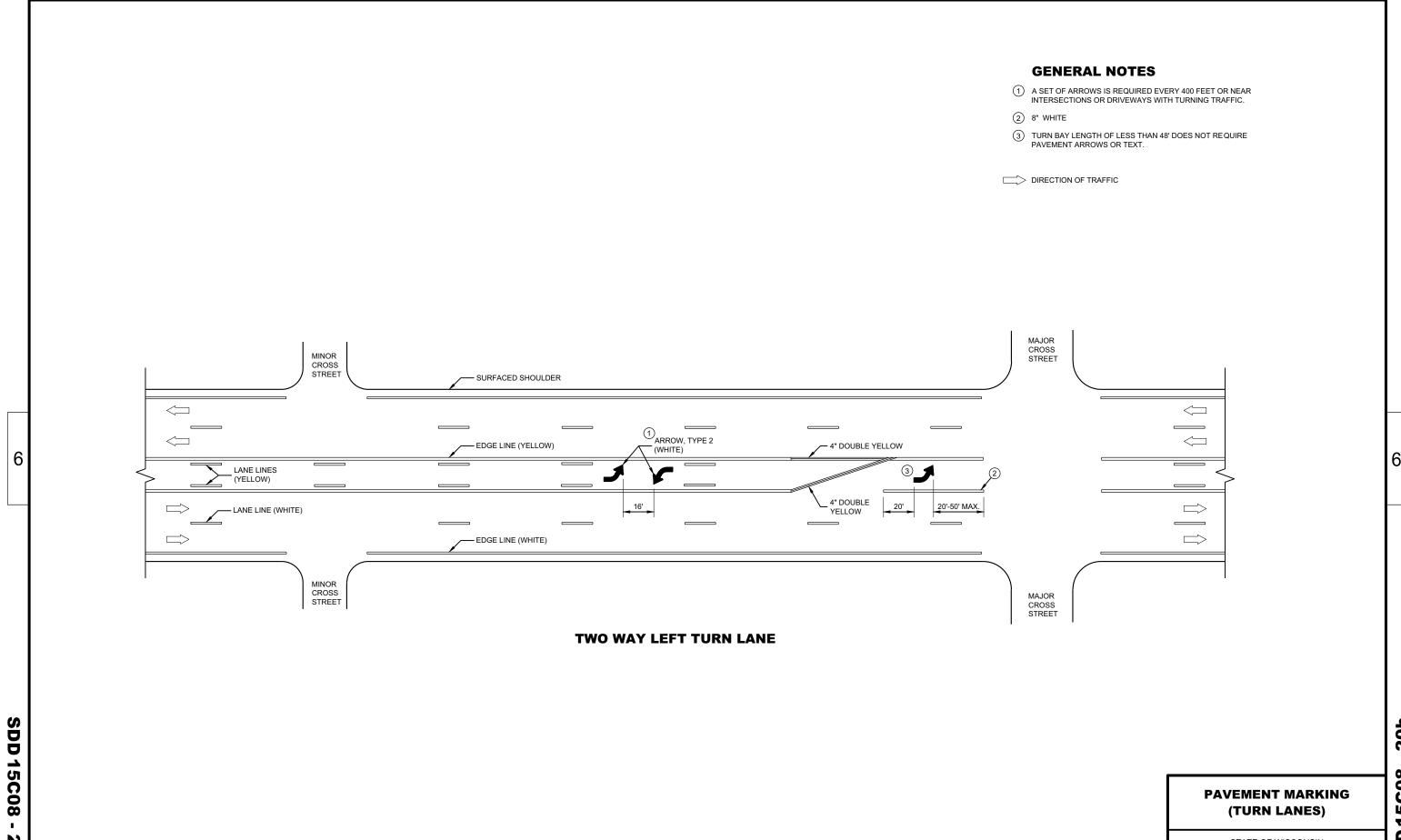
APPROVED /S/ Rodney Taylor June 2017 ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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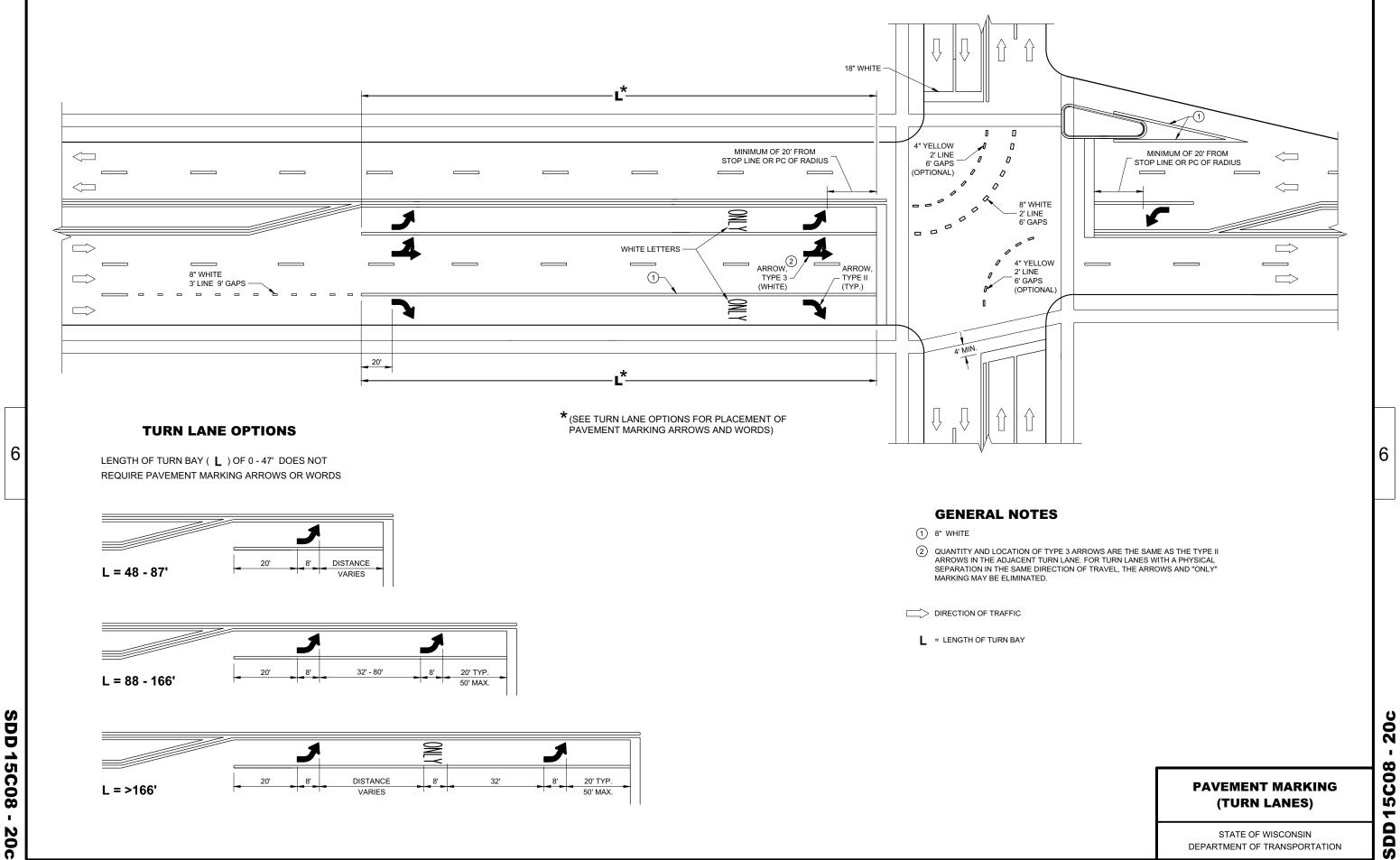




- 20b

SDD15C08

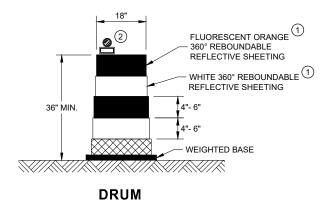
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

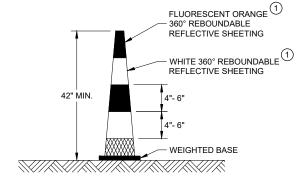


DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

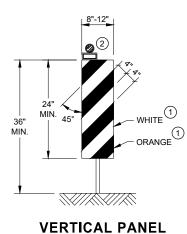
- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



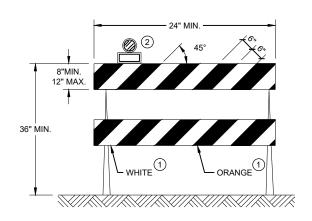


42" CONE DO NOT USE IN TAPERS

½ SPACING OF DRUMS

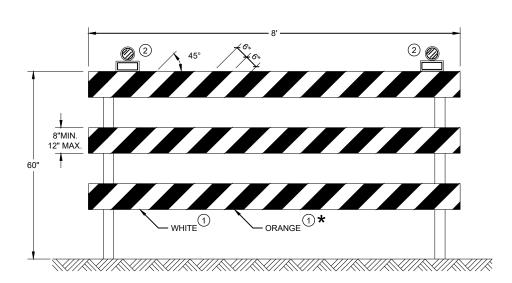


THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



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

<u>60</u>

15C

SDD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2021	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER

RUMBLE

STRIPS

WORK

GENERAL NOTES FLAGGING LEGEND DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH SIGN ON PORTABLE OR PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PERMANENT SUPPORT PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING. UNIFORM TRAFFIC CONTROL DEVICES. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING 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. 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 BY THE ENGINEER. FLAGGER, EQUIPPED WITH STOP/SLOW EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S PADDLE FASTENED ON SUPPORT STAFF RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN. ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR 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 SPEED LIMIT SPACING "A" 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 STOP/SLOW PADDLE ŔUMBLĖ 45-55 MPH 500' WO3-4 WORK **ON SUPPORT STAFF** ROAD STRIPS VARIABLE DISTANCE - 200' - 300' (TYP.) END ROAD WORK |||3 WORK AREA A/2 END ROAD WORK 200' - 300' (TYP.) VARIABLE DISTANCE

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

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

2

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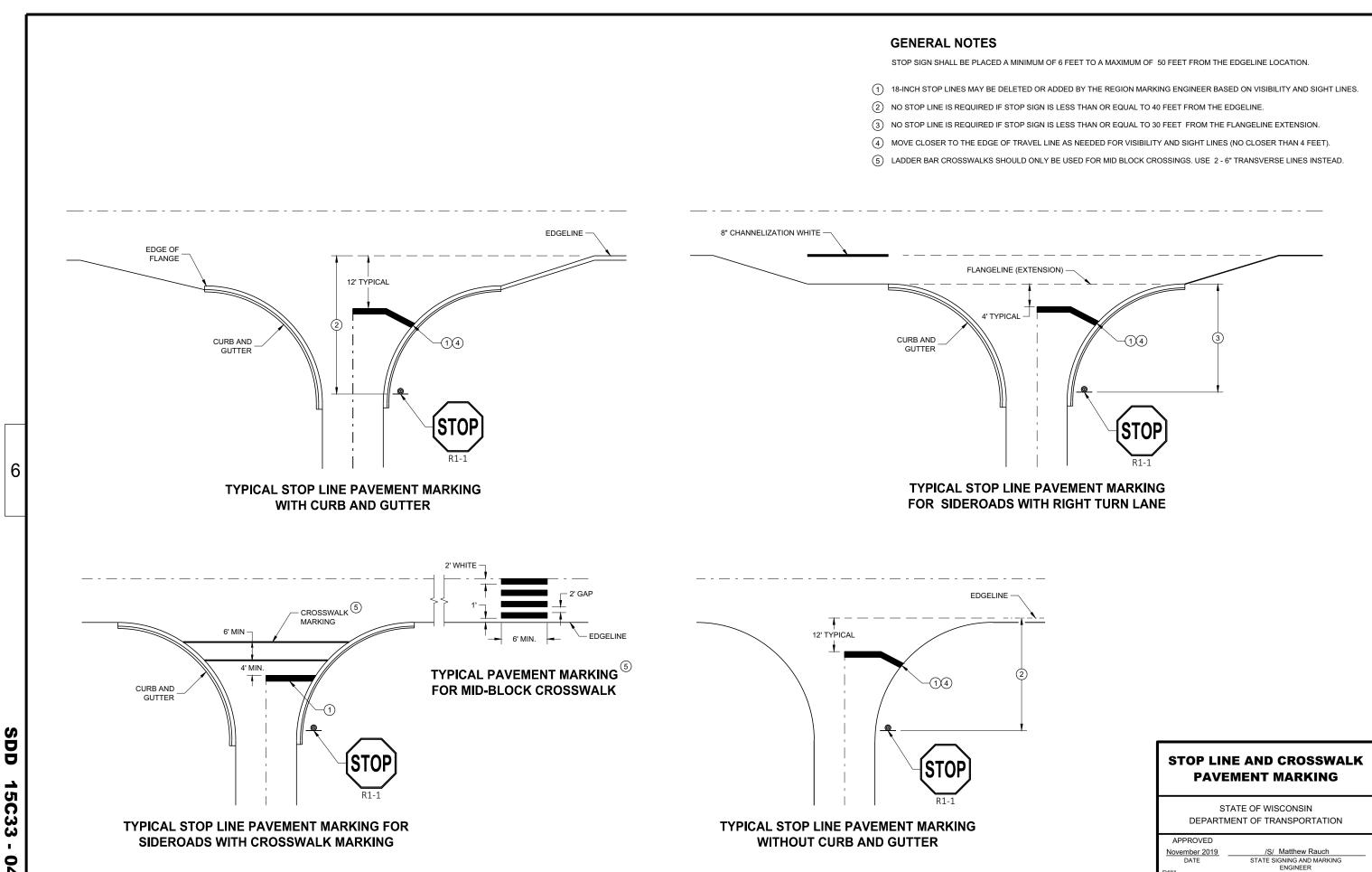
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2019	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
ELIM/A	

Ŏ 0 Ŋ

WORK ZONE ENGINEER

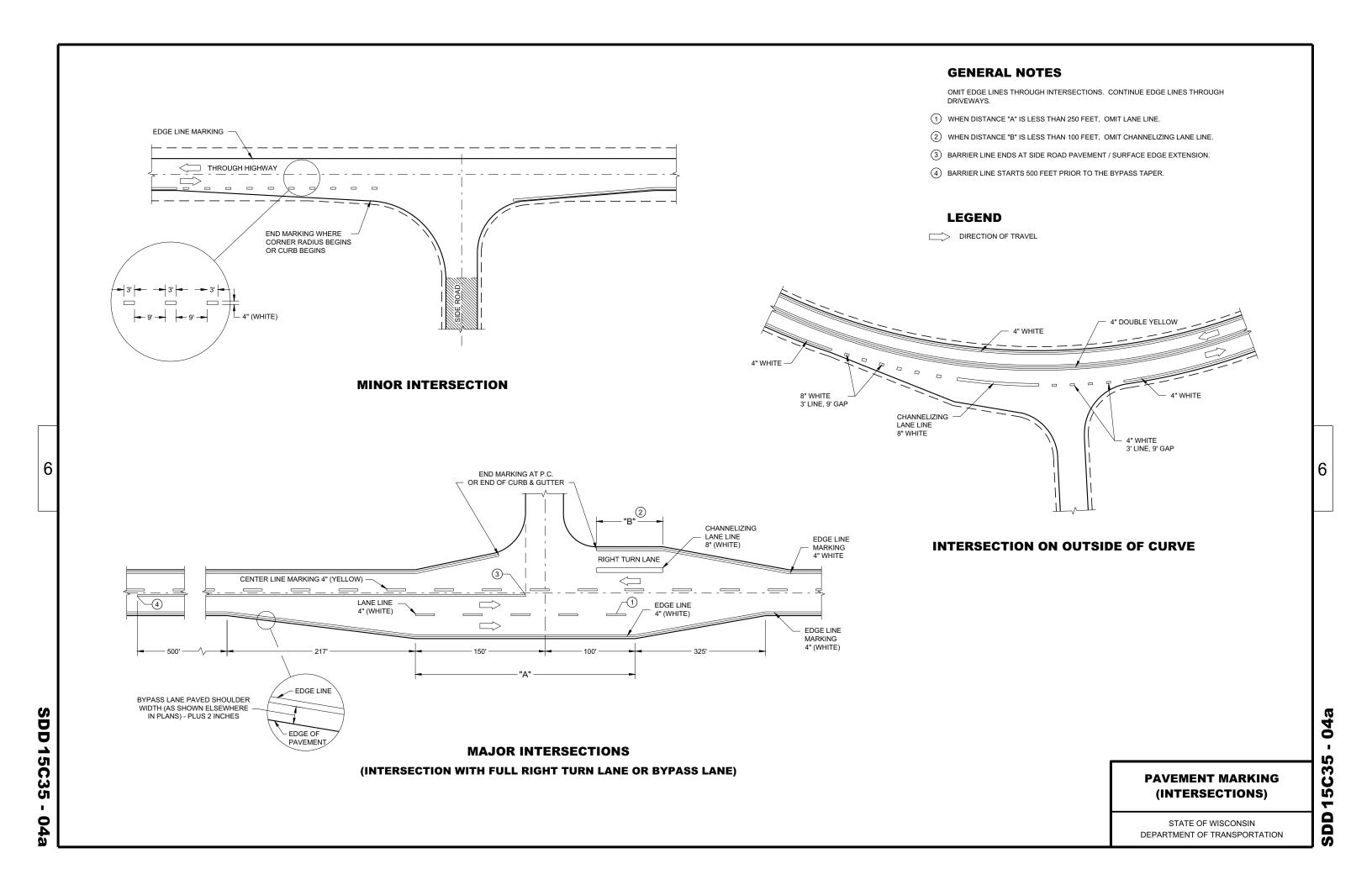
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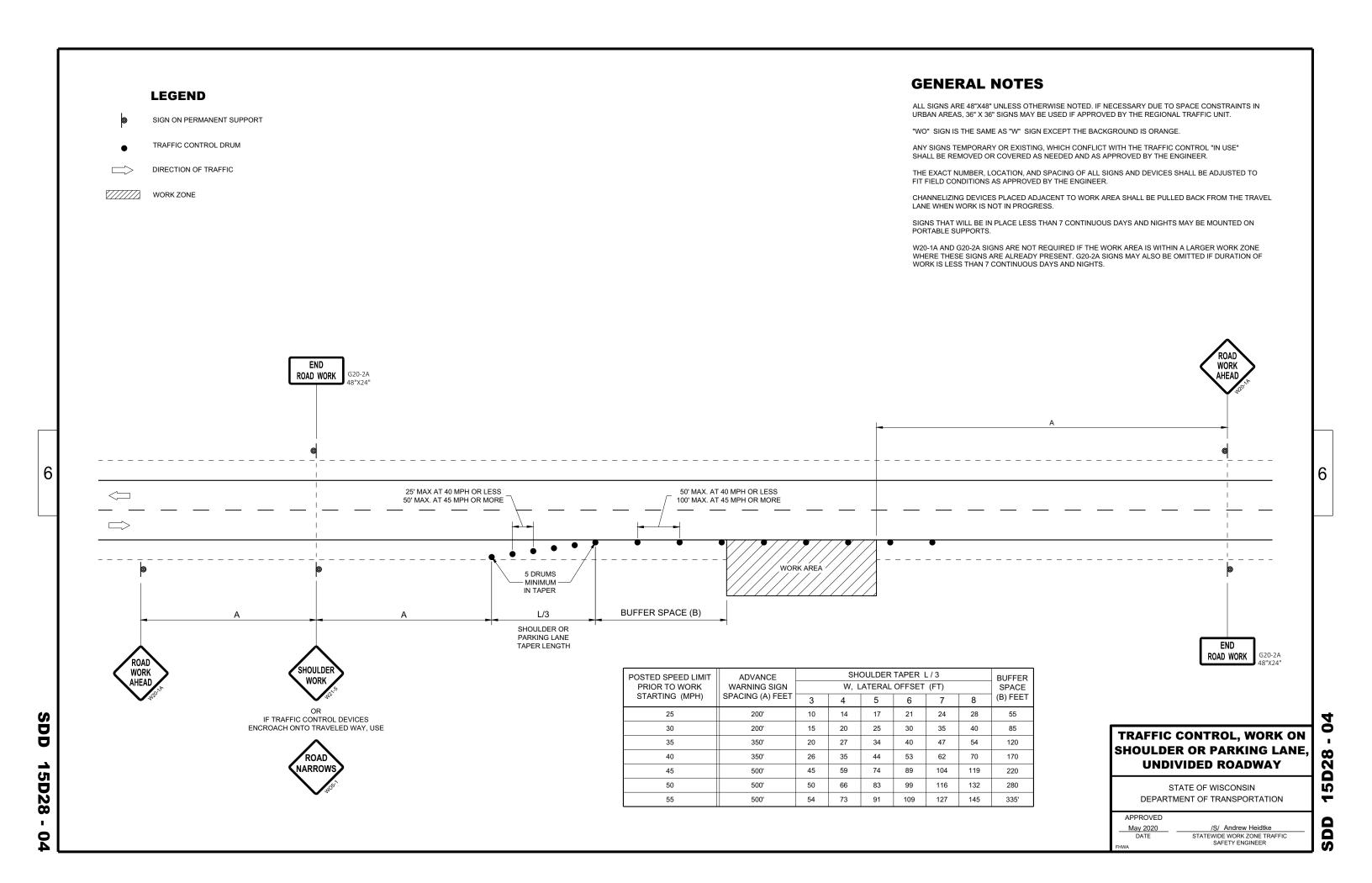


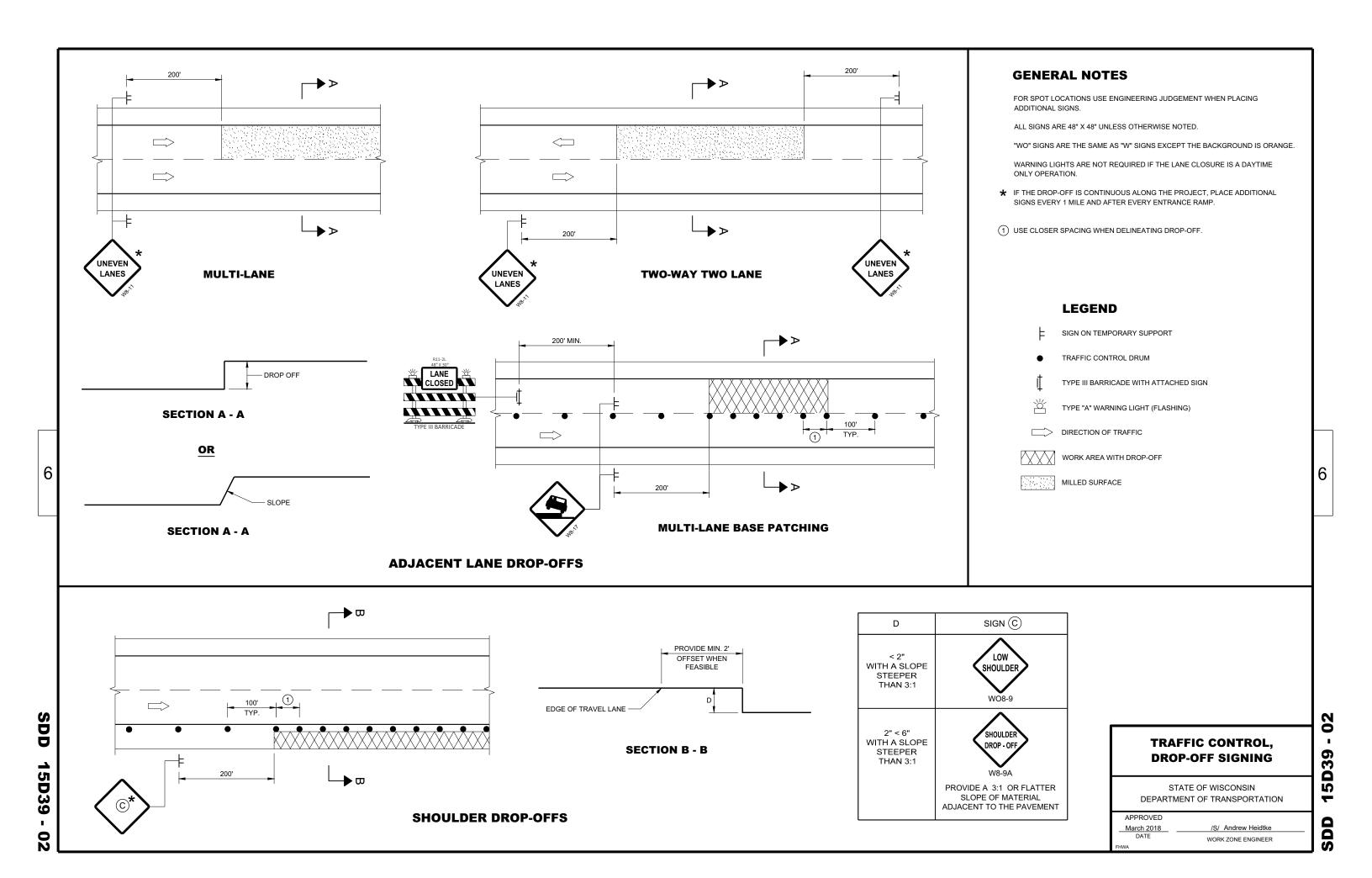
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SDD







QROOVED PAVEMENT

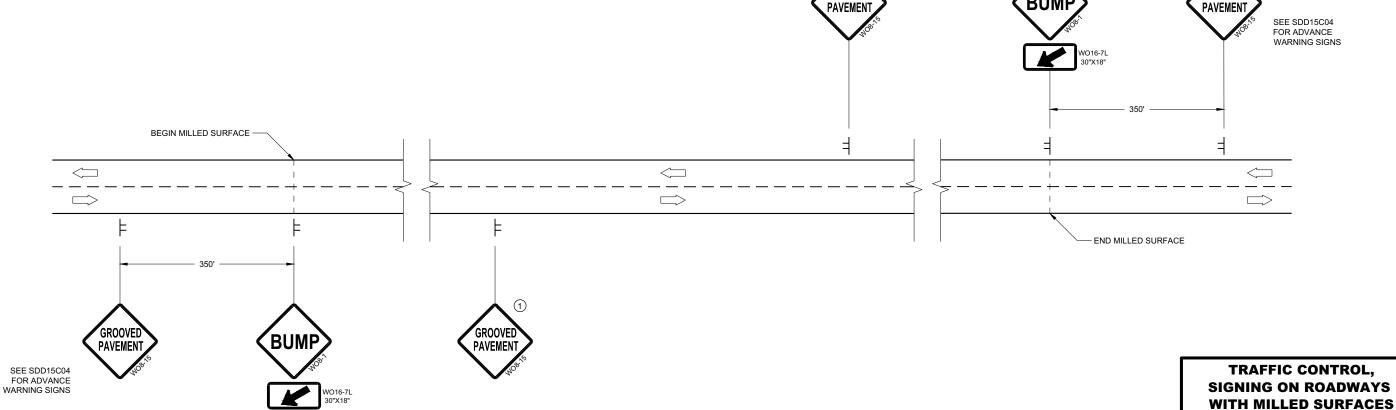
TYPICAL SIDE ROAD APPROACH SIGN DETAIL

50

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

/S/ Andrew Heidtke
WORK ZONE ENGINEER

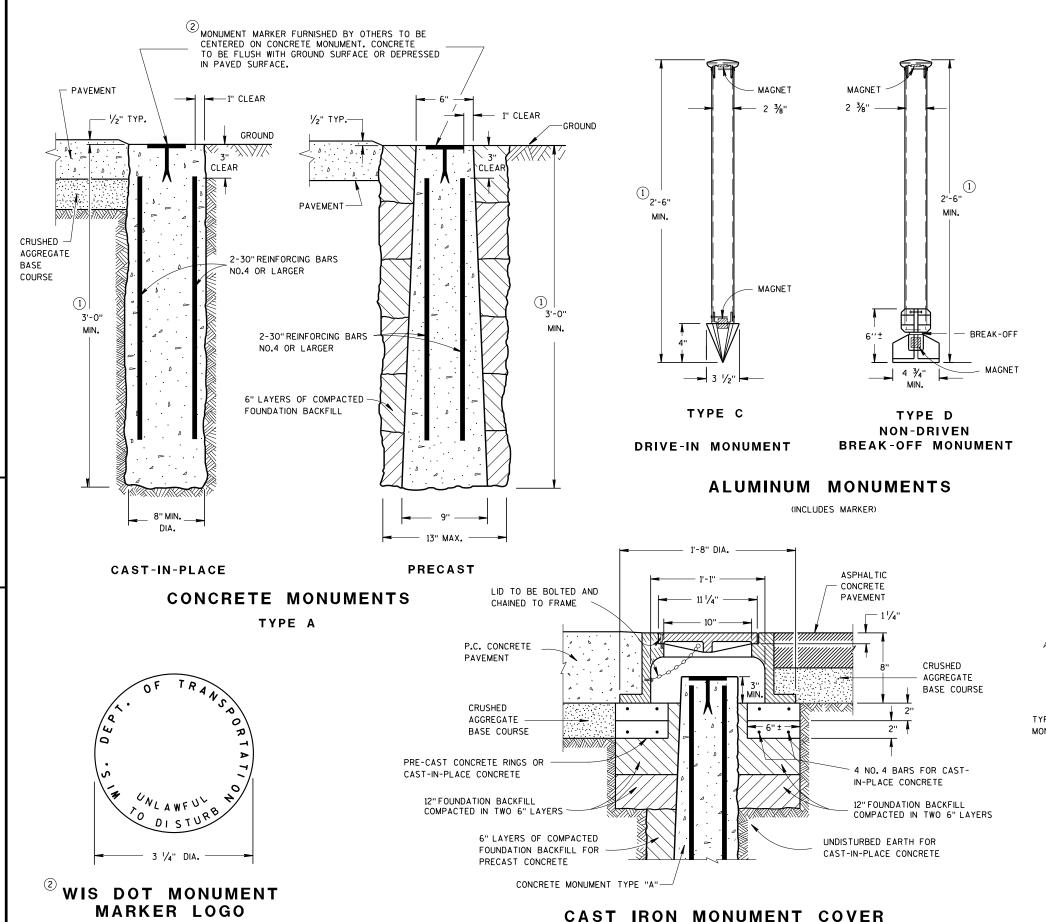
APPROVED
February 2020
DATE



DETAIL FOR SIGNING ON MILLED SURFACES

45

50



(APPROXIMATE WEIGHT 95 LBS)

Ö D

FOR TYPES "A", "C", & "D"

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.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

PERMANENT MAGNETS SHALL BE INSERTED NEAR THE TOP AND BOTTOM OF ALL ALUMINUM MONUMENTS SO THE MONUMENT CAN EASILY BE DETECTED BY A METAL DETECTOR.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

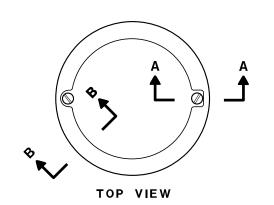
MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

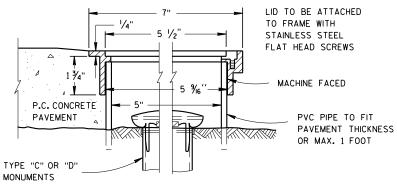
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER

- (1) MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.
- (2) AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.





SECTION B-B

SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS) (FOR CONCRETE PAVEMENT ONLY)

> LANDMARK REFERENCE **MONUMENTS AND COVERS**

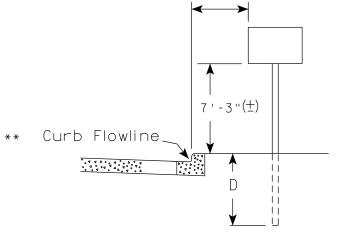
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

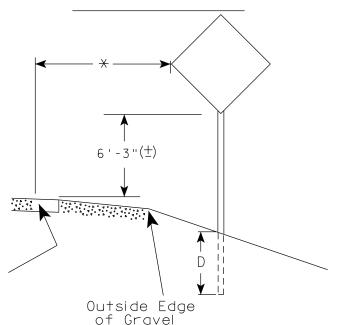
March 2018 /S/ Raymond A. Kumapayi DATE CHIEF SURVEYING AND MAPPING ENGINEER

FHWA

Ω

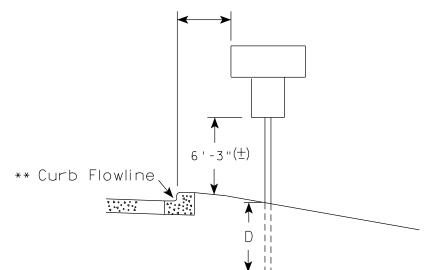


White Edgeline Location



2' Min - 4' Max (See Note 6)

HWY:



White Edgeline Location

** The existence of curb and gutter does not in

yeline
Outside Edge
of Gravel

itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.

2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.

The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

- 3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is 5' 3'' ($\frac{+}{2}$).
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (±) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.

POST EMBEDMENT DEPTH

Area of Sign
Installation
(Sq.Ft.)

20 or Less

Greater than 20

Area of Sign
D
(Min)

5'

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

SHEET NO:

Ε

PROJECT NO:

FILE NAME: C:\CAEfiles\Projects\tr_stdplate\A43.dgn

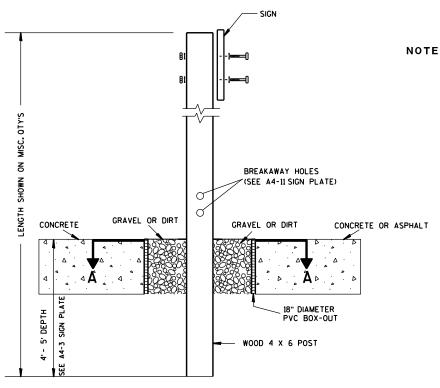
measured from the flow line.

COUNTY: PLOT DATE: 13-MAY 2020 1:04

PLOT BY: mscj9h

PLOT NAME :

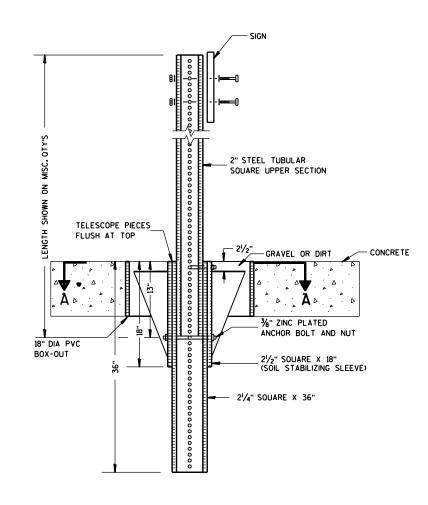
PLOT SCALE: \$\$.....plo†scale.....\$\$WISDOT/CADDS SHEET 42



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



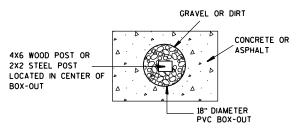
ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT

ELEVATION VIEW

DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE : 13.659812:1.000000

APPROVED

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).
- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- $\star\star\star$ See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

D
(Min)
4'
5'

OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

TYPICAL INSTALLATION

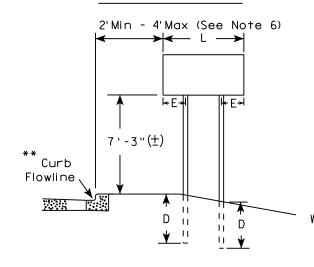
For State Traffic Engineer

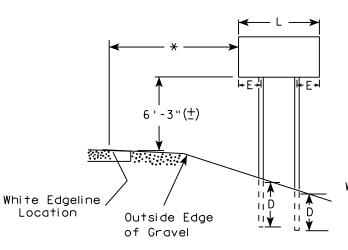
DATE 8/21/17 PLATE NO. A4-4.15

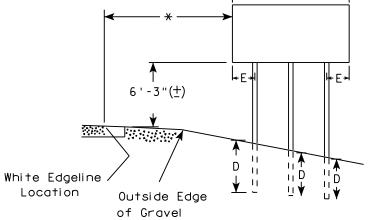
SHEET NO:

URBAN AREA

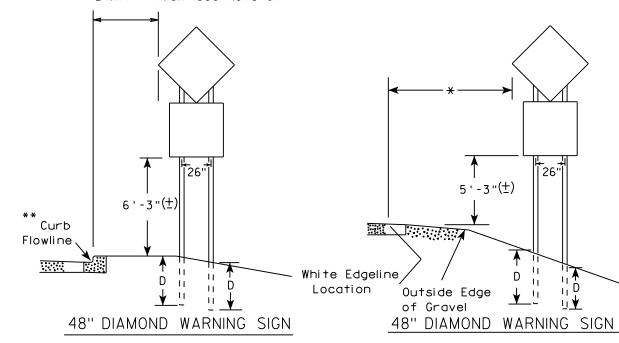
RURAL AREA (See Note 3)







2'Min - 4'Max (See Note 6)



	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRED	
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

HWY:

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 108" to 144"	12''

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

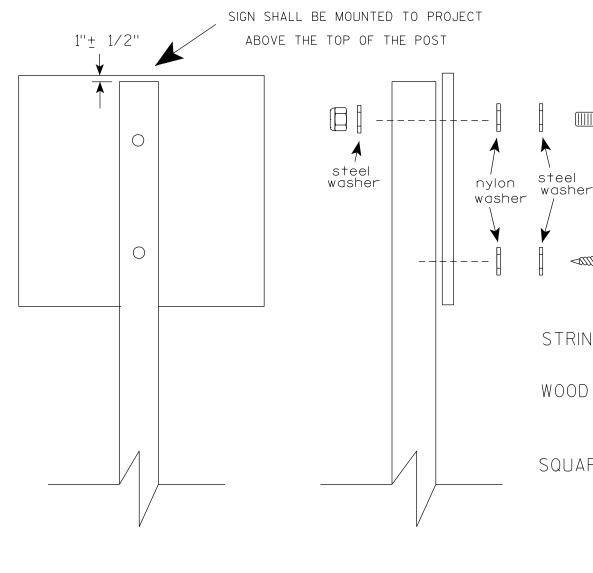
PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: 108.188297:1.000000

WISDOT/CADDS SHEET 42



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either:

- a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3
- b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS $(4'' \times 6'')$

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN) 3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 3/32 " (6605-9-6) BULB-TITE. TRI-FOLD. ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL 1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON

Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq.ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

DATE 4/1/2020

PLATE NO. <u>A4-8.9</u>

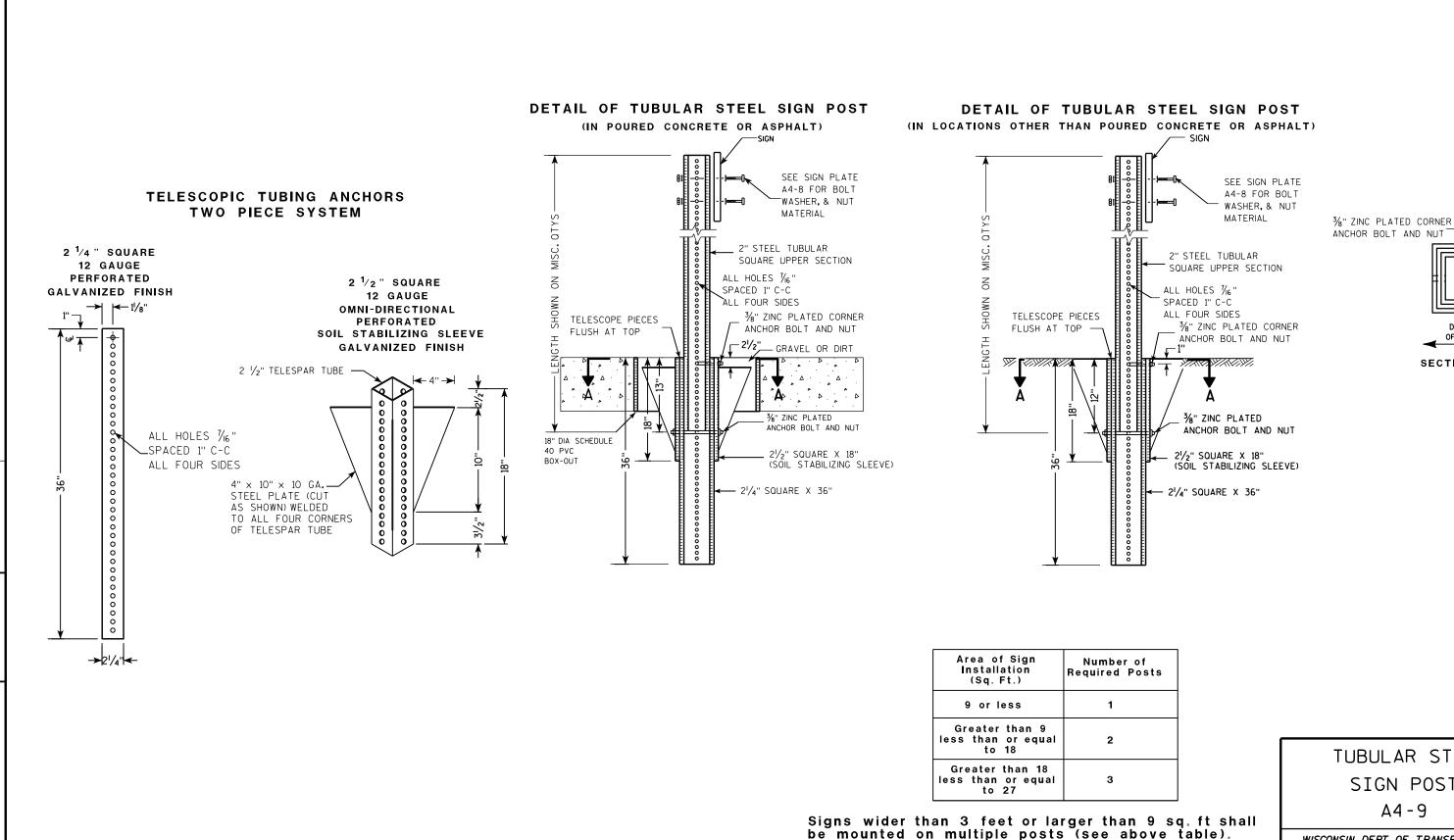
SHEET NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

Ε

PROJECT NO:



TUBULAR STEEL SIGN POST A4-9

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 2/05/15 PLATE NO. <u>A4-9.9</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN

HWY:

PROJECT NO:

PLOT DATE: 05-FEB-2015 17:09

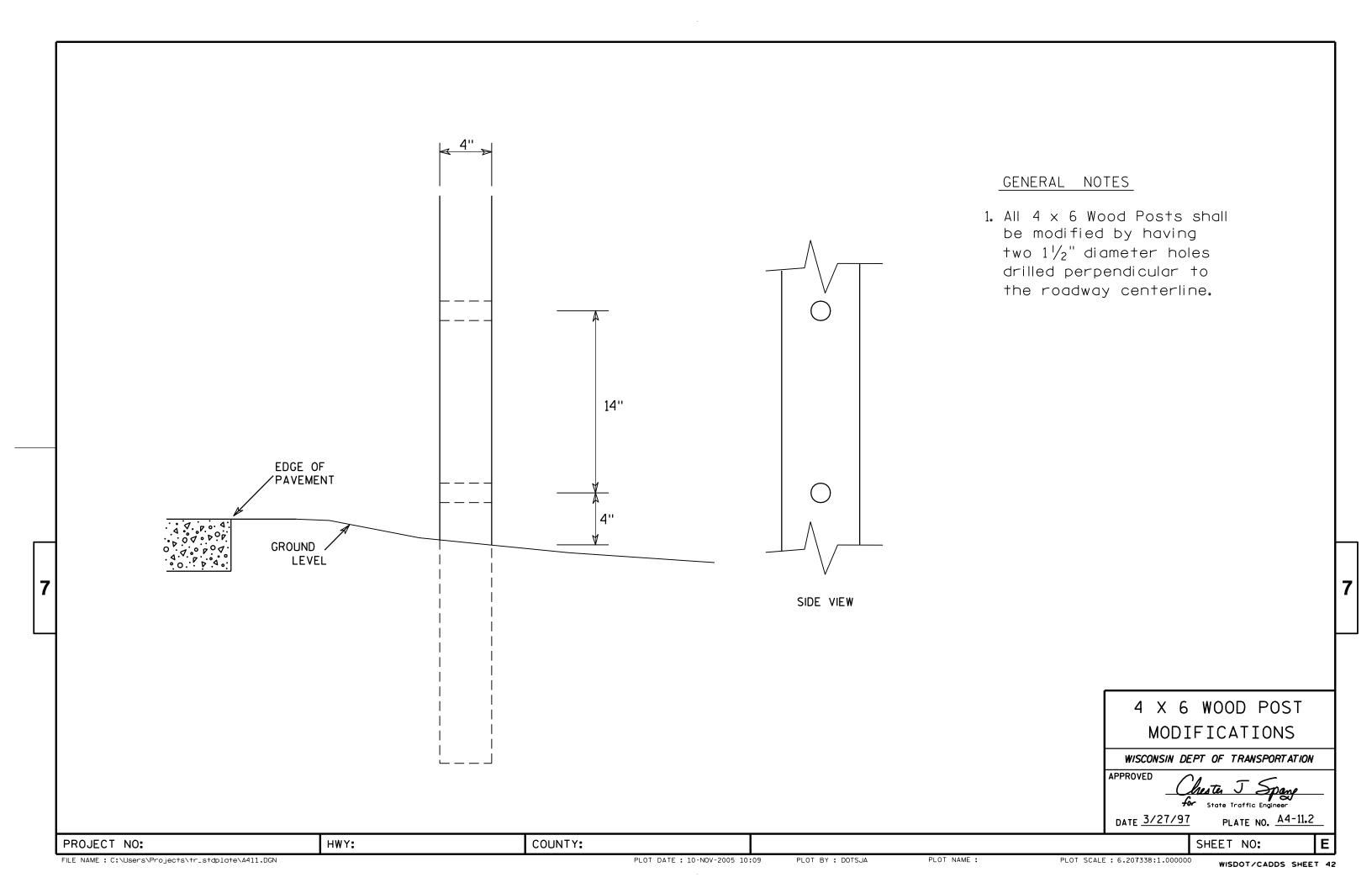
COUNTY:

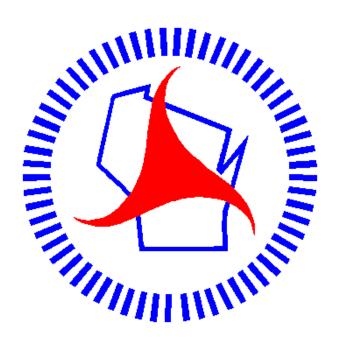
PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

SECTION A-A

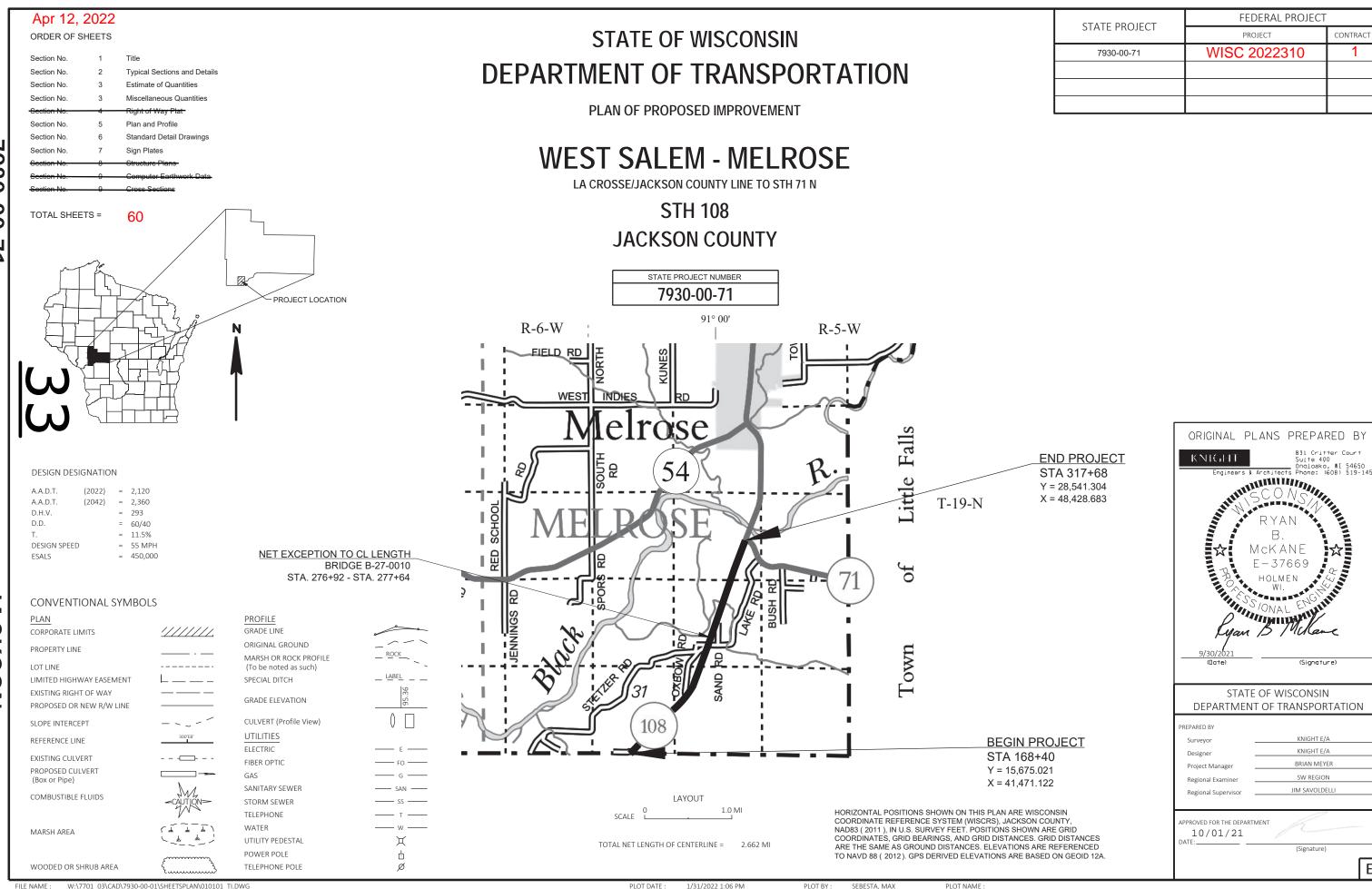




Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov



GENERAL NOTES

- NO TREES OR SHRUBS SHALL BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE BEEN DESGINATED FOR REMOVAL BY THE ENGINEER.
- DISTURBED AREAS WITHING THE RIGHT OF WAY ARE TO BE SALVAGED TOPSOILED, FERTILIZED, SEEDED, AND MULCHED AS DIRECTED BY THE ENGINEER.
- MATCH EXISTING DRIVEWAYS WITH IN-KIND MATERIALS.
- PAVING LIMITS ARE TO BE DETERMINED BY THE ENGINEER.
- TACK COAT IS REQUIRED BETWEEN THE MILLED PAVEMENT AND HMA PAVEMENT. APPLY TACK COAT AT A RATE OF 0.07 GAL/SY TO MILLED SURFACES AND 0.05 GAL/SY BETWEEN LAYERS OF HMA PAVEMENT.
- THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
- HMA PAVEMENT TO BE PLACED IN 1.75-INCH LOWER LIFT AND 1.5-INCH UPPER LIFT.
- SURFACE WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN.
- WHEN THE QUANTITIY OF BASE AGGREGATE IS MEASURED FOR PAVEMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.
- RIGHT OF WAY DEPICTED ON THE PLANS ARE BASED OFF OF PREVIOUS AS BUILTS. IF CONFLICTS ARE ANTICIPATED, THE CONTRACTOR SHALL FIELD VERIFY EXACT LIMITS AND NOTIFY THE ENGINEER.
- AERIAL IMAGERY SHOWN ON THIS PLAN IS FROM 2015 AND IS FOR INFORMATIONAL PURPOSES ONLY.

AREA CONTACTS

WI SDOT PROJECT MANAGER BRI AN MEYER, PE 3550 MORMON COULEE RD LA CROSSE, WI 54601 (608) 789-5676 BRI AN. MEYER@DOT. WI. GOV DESI GN CONTACT KNI GHT E/A, I NC. RYAN MCKANE, PE 831 CRI TTER CT, STE 400 ONALASKA, WI 54650 (608) 713-9274 RMCKANE@KNI GHTEA. COM WI SDNR: JACKSON COUNTY
BRADLEY BETTHAUSER
910 HI GHWAY 54 EAST
BLACK RI VER FALLS WI 54615
(715) 213-9064
BRADLEY. BETTHAUSER@WI SCONSI N. GOV

STANDARD ABBREVIATIONS

AC	ACRE	INL	INLET
AGG	AGGREGATE	INV	INVERT
AGG	AHEAD	JCT	JUNCTI ON
AADT		LT	
ASPH	ANNUAL AVERAGE DAILY TRAFFIC ASPHALTIC	L	LEFT LENGTH OF CURVE
AVG	AVERAGE	LIN FT or LF	LINEAR FOOT
BK	BACK	LS	LUMP SUM
BAD	BASE AGGREGATE DENSE	NC	NORMAL CROWN
BM	BENCH MARK	N	NORTH
BR	BRI DGE	NB	NORTHBOUND
	CENTER LINE	NO	NUMBER
CE	COMMERCI AL ENTRANCE	PT	POI NT
CONC	CONCRETE	PC	POINT OF CURVATURE
CO	COUNTY	PI	POINT OF INTERSECTION
CTH	COUNTY TRUNK HI GHWAY	PT	POINT OF TANGENCY
CR	CREEK	PCC	PORTLAND CEMENT CONCRETE
CABC	CRUSHED AGGREGATE BASE COURSE	LB	POUND
CSD	COMMUNITY SENSITIVE DESIGN	PE	PRI VATE ENTRANCE
CY or CUYD	CUBI C YARD	R	RADI US
CULV	CULVERT	RL or R/L	REFERENCE LINE
CP	CULVERT PIPE	RT	RI GHT
C & G	CURB AND GUTTER	R/W	RI GHT-OF-WAY
D	DEGREE OF CURVE	RD	ROAD
DI A	DI AMETER	SHLDR	SHOULDER
DI SCH	DI SCHARGE	SB	SOUTHBOUND
E	EAST	SF or SQ FT	SQUARE FEET
EB	EASTBOUND	SY or SQ YD	SQUARE YARD
EL or ELEV	ELEVATI ON	SDD	STANDARD DETAIL DRAWINGS
EW	ENDWALL	STH	STATE TRUNK HIGHWAYS
ENT	ENTRANCE	SE	SUPERELEVATI ON
EXC	EXCAVATI ON	T	TANGENT
EX	EXI STI NG	TEMP	TEMPORARY
FERT	FERTI LI ZER	TWLTL	TWO-WAY LEFT-TURN LANE
FE	FIELD ENTRANCE	UG	UNDERGROUND
	FLOW LINE	USH	UNITED STATES HIGHWAY
FT	FOOT	V	VELOCITY OR DESIGN SPEED
HE	HI GHWAY EASEMENT	VC	VERTICAL CURVE
	S LAGEMENT		. Z O/IL OOIIVE

WB

YD

WESTBOUND

YARD

PROJECT NO: 7930-00-71 HWY: STH 108 COUNTY: JACKSON GEN NOTES, STAND ABBR, & CONTACTS SHEET **E**

HMA

CWT

HOT MIX ASPHALT

HUNDREDWEI GHT

FILE NAME : ______ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : ____ ORG DATE : ____ ORIGINATOR : DIST PLOT SCALE : 1:1

2

UTILITY CONTACTS

CENTURYLINK - COMMUNICATION LINE BRIAN STELPLUGH 333 NORTH FRONT ST LA CROSSE, WI 54601 (608) 615-4136

BRI AN. STELPLUGH@LUMEN. COM

CHARTER COMMUNICATIONS - COMMUNICATION LINE
PERRY McCLELLAN
1228 12TH AVE S
ONALASKA, WI 54650
(608) 317-6213
PERRY. MCCLELLAN@CHARTER. COM

JACKSON ELECTRIC COOPERATIVE - ELECTRICITY
ERIC STEIEN
N6868 CO HWY F
P. O. BOX 546
BLACK RIVER FALLS, WI 54615
(715) 284-5385
ESTEIEN@JACKELEC. COM

ORDER OF TYPICAL SECTION & DETAIL SHEETS

- 1. GENERAL NOTES
- 2. PROJECT OVERVIEW
- 3. TYPI CAL SECTIONS
- 4. CONSTRUCTION DETAILS
- 5. ALIGNMENT DETAIL & TIES



RUNOFF COEFFICIENT TABLE

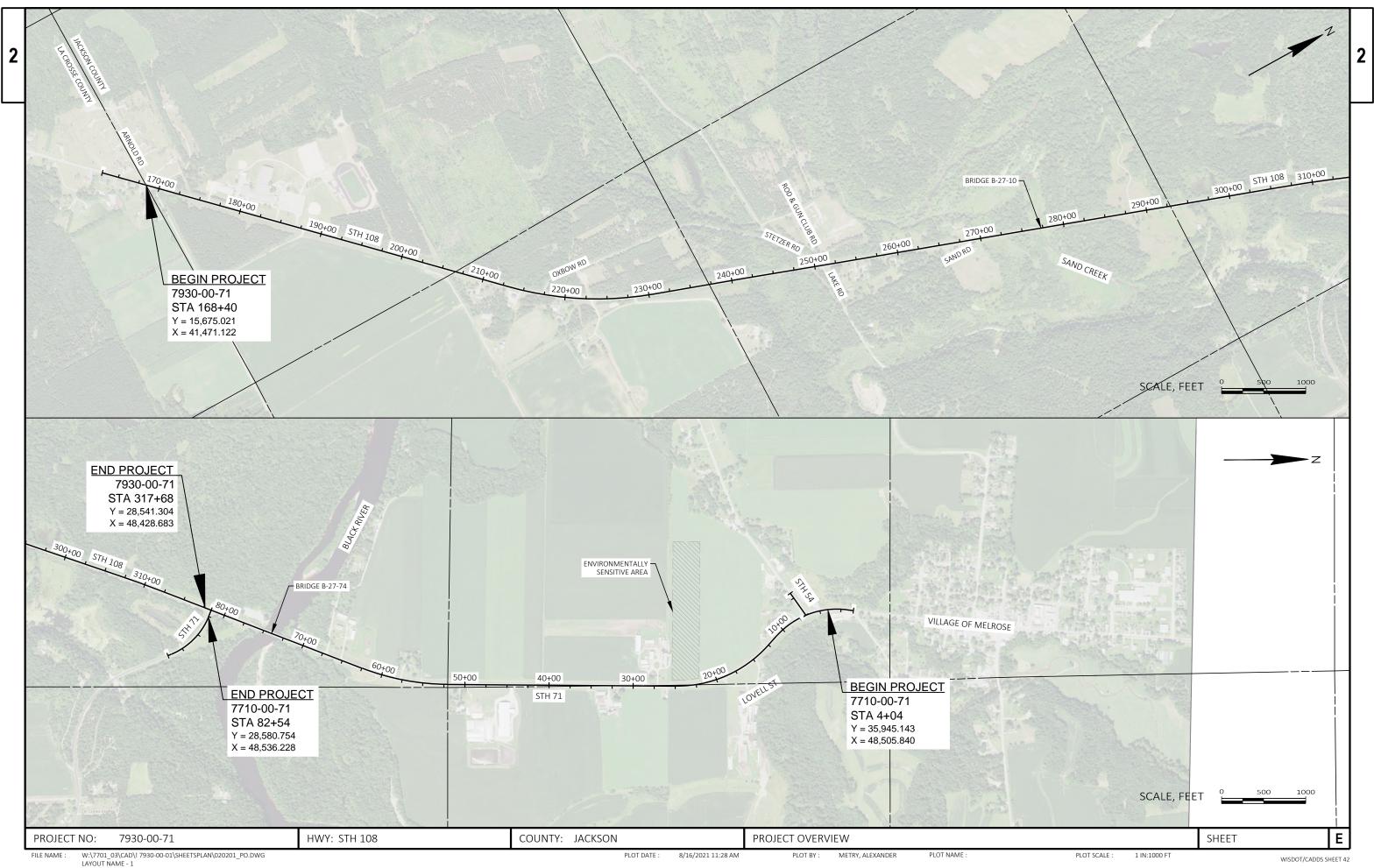
	H	/DROLOG	IC SOIL GROUP									
А		В	С								D	
	SLC	PE RANG	E (PERCENT)	SLOPE	RANGE	(PERCENT)	SLOF	PE RANGE	(PERCENT)	SLOPI	E RANGE	(PERCENT)
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22	.26 .33	.20 .26	.23	.30 .37	.20 .27	.25	.30 .40
SIDE SLOPE: TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:				I					1			
ASPHALT						.7095						
CONCRETE						.8095						
BRICK						.7080						
DRIVES, WALKS						.7585						
ROOFS						.7595						
GRAVEL ROADS, SHO	DULDERS					.4060			·			

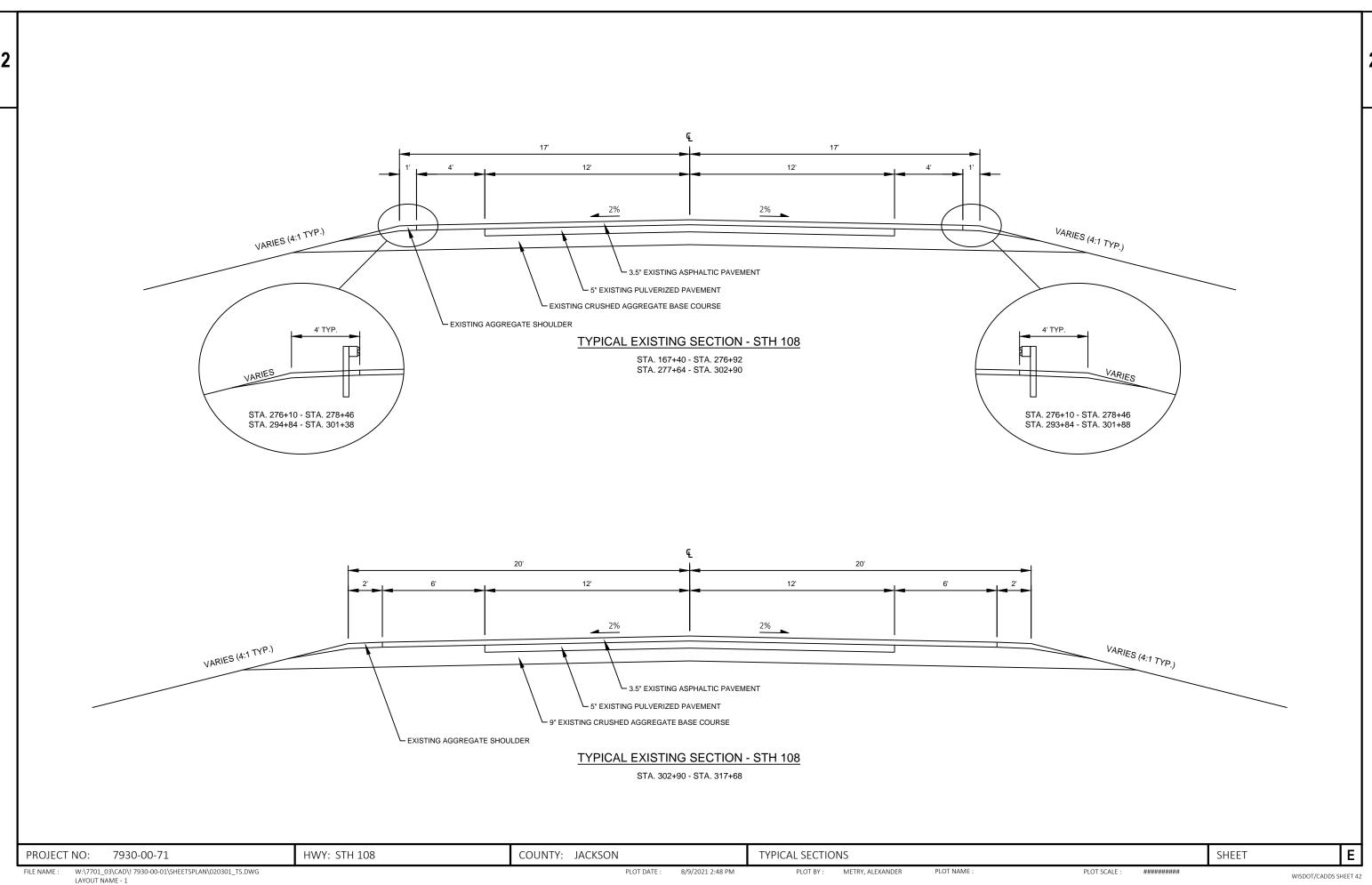
TOTAL PROJECT AREA = 22.64 ACRES

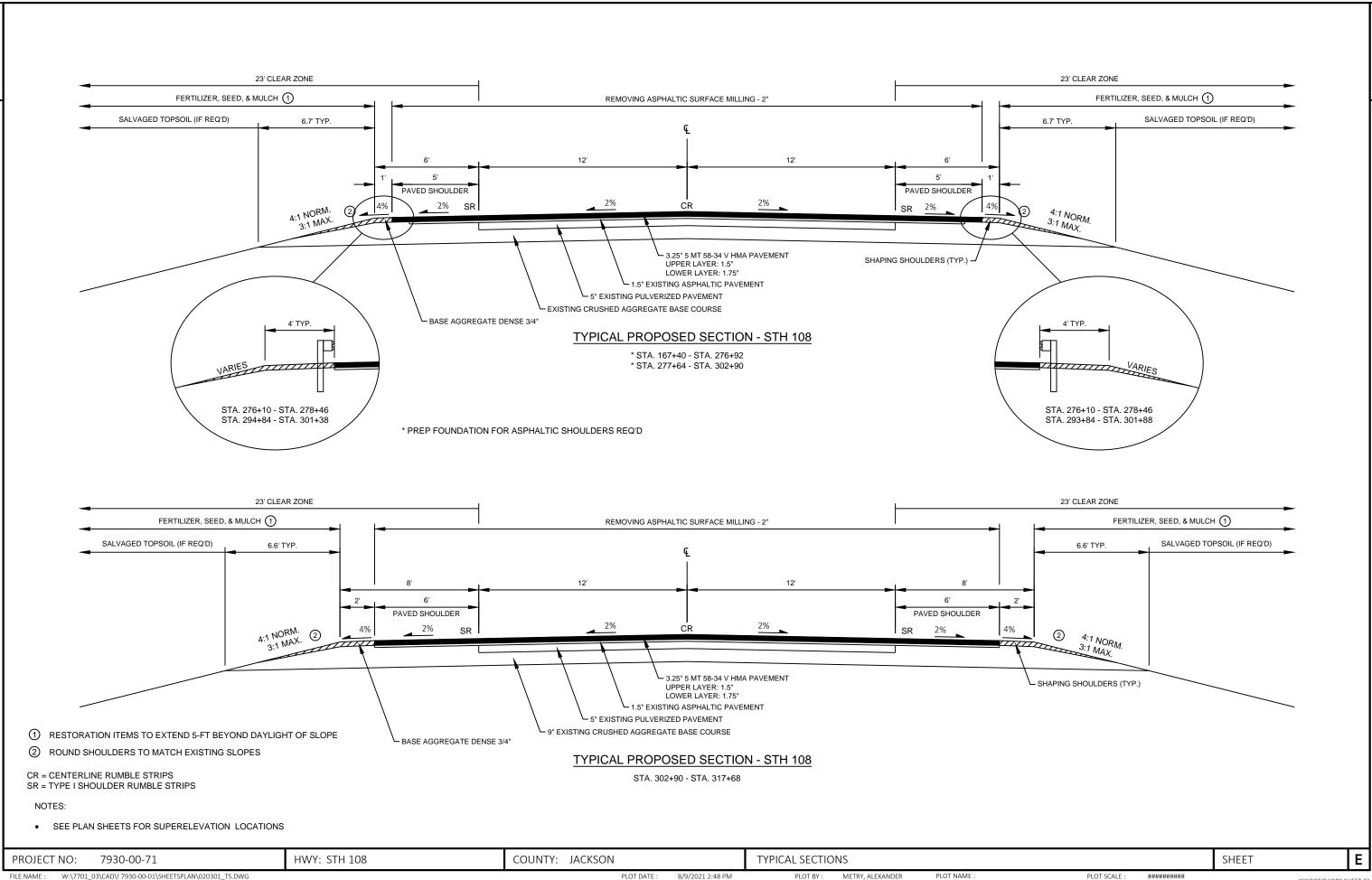
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.00 ACRES

PROJECT NO: 7930-00-71 HWY: STH 108 COUNTY: JACKSON GEN NOTES, STAND ABBR, & CONTACTS SHEET E

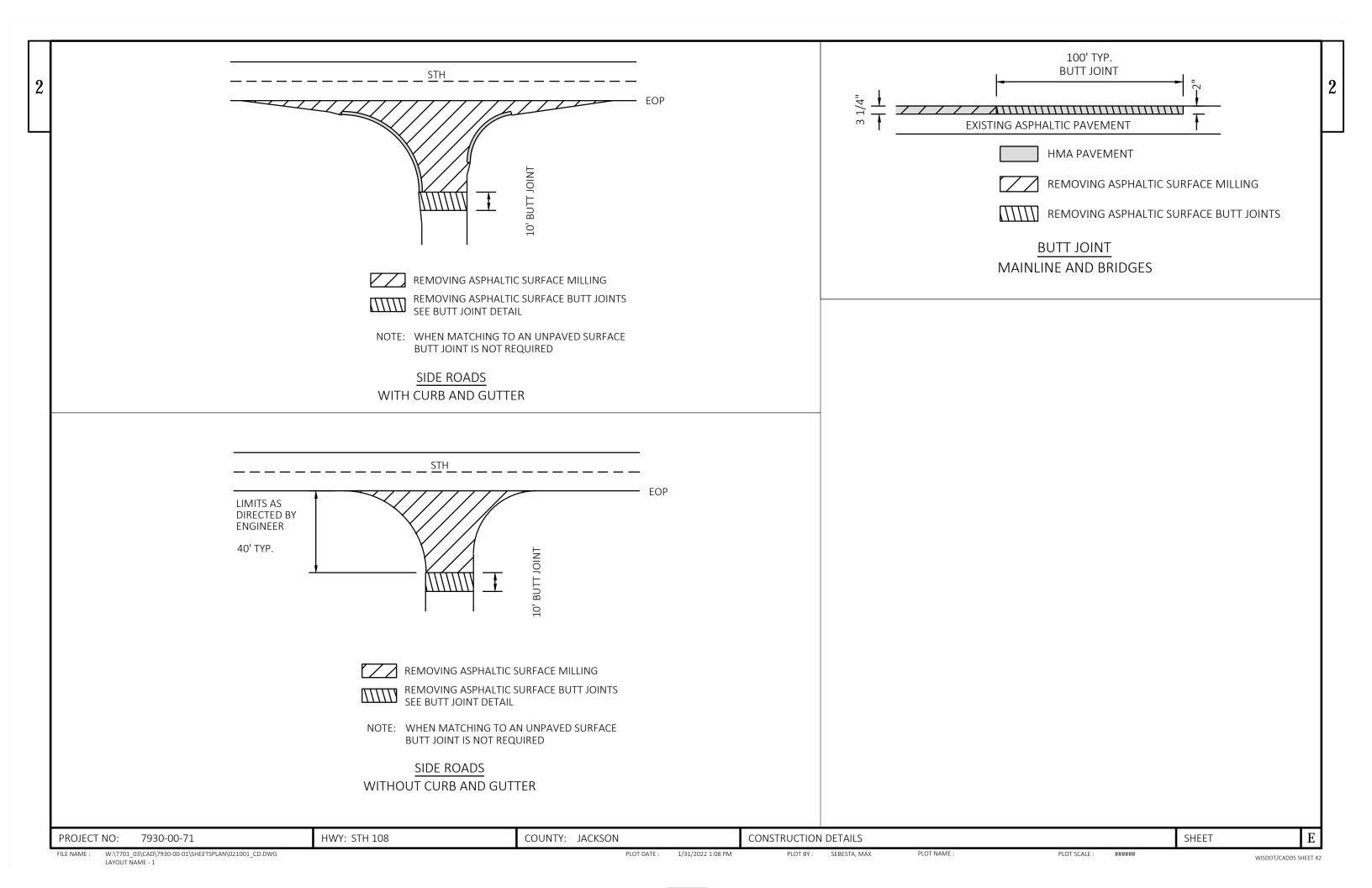
FILE NAME : ______ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ ORG DATE : _____ ORIGINATOR : DIST PLOT SCALE : 1:1

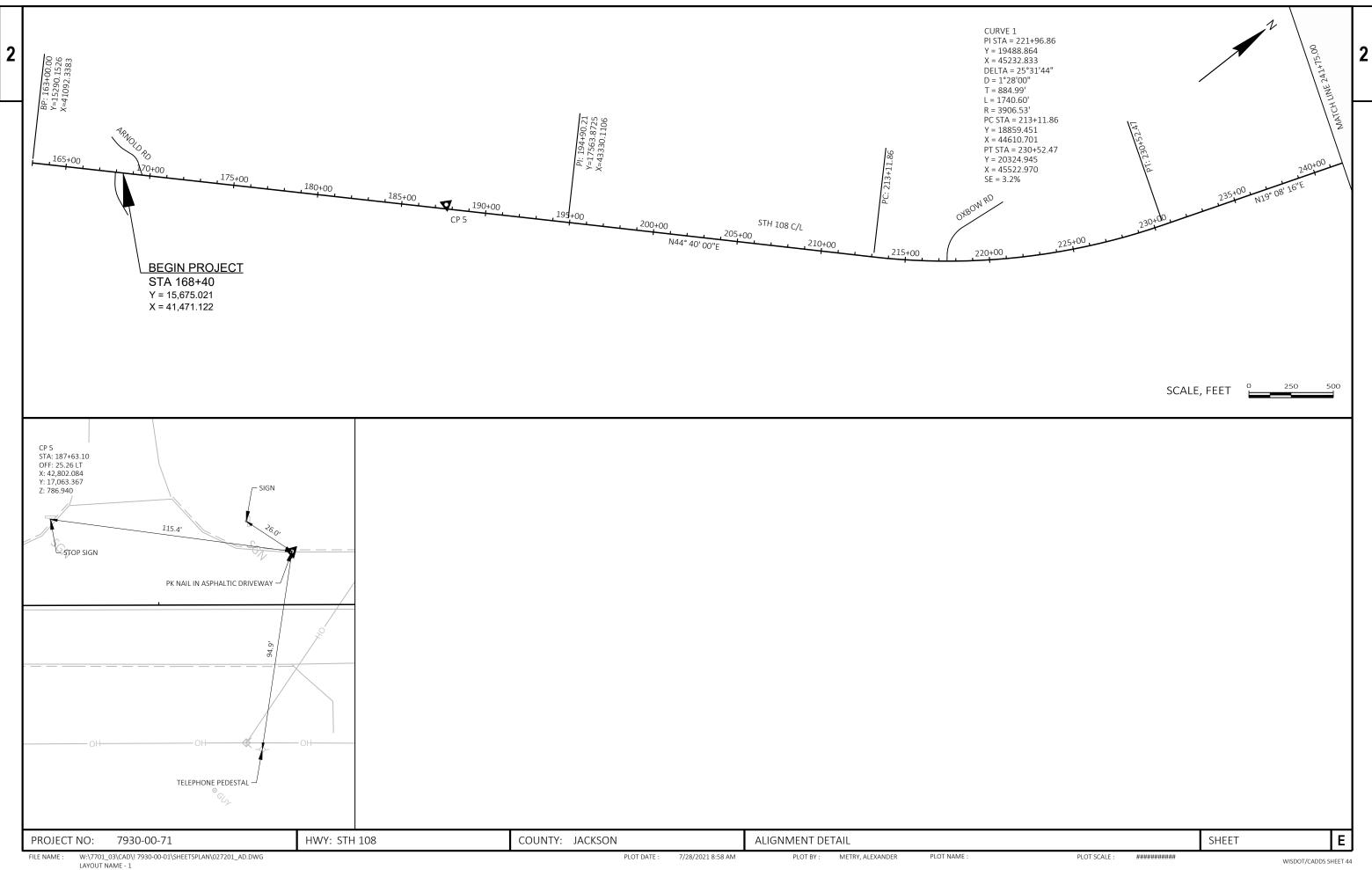


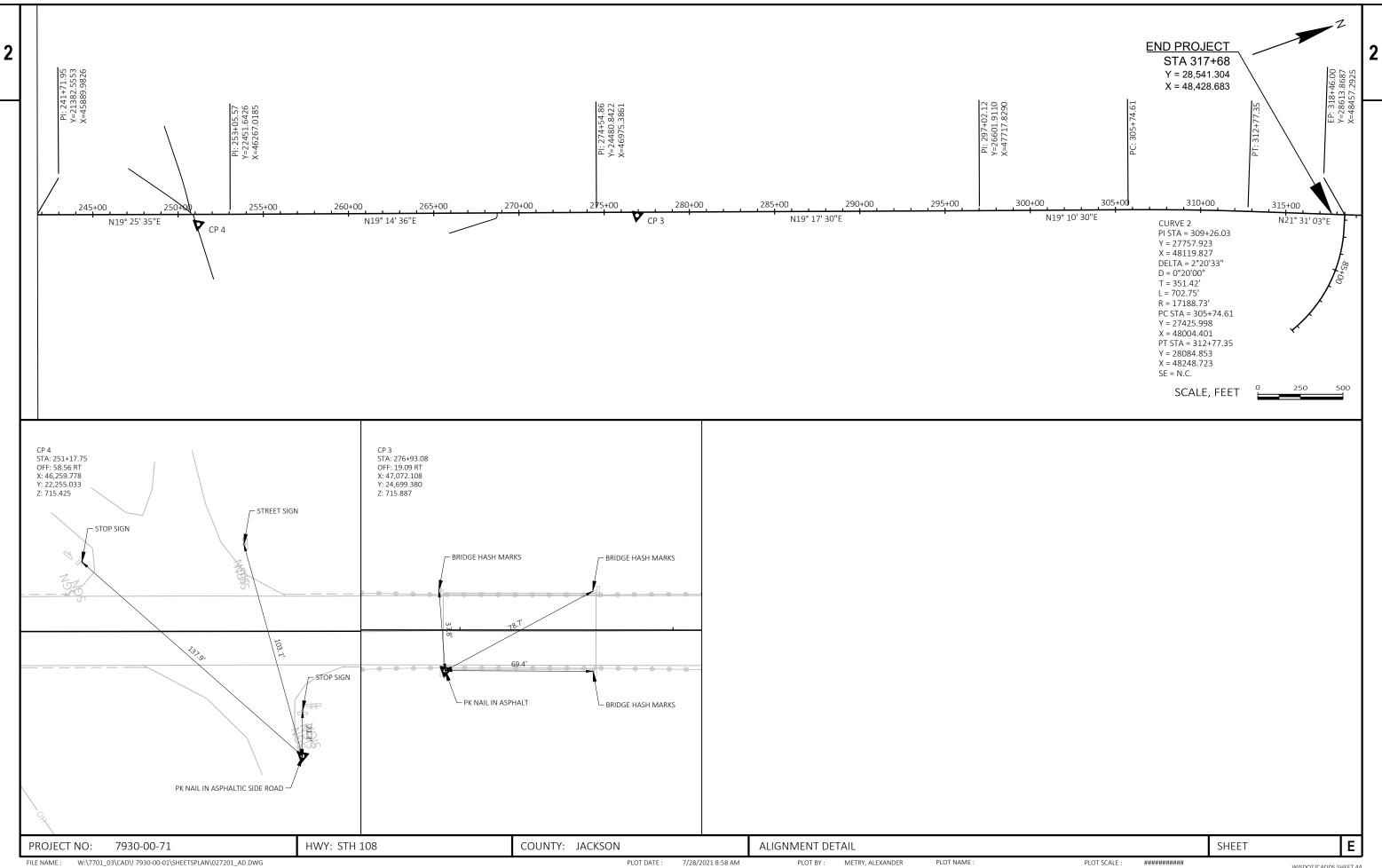




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WISDOT/CADDS SHEET 44

7930-00-71	

					7930-00-71	
Line	Item	Item Description	Unit	Total	Qty	
0002	204.0110	Removing Asphaltic Surface	SY	693.000	693.000	
0004	204.0115	Removing Asphaltic Surface Butt Joints	SY	1,803.000	1,803.000	
0006	204.0120	Removing Asphaltic Surface Milling	SY	55,246.000	55,246.000	
0010	211.0100	Prepare Foundation for Asphaltic Paving (project) 02. 7930-00-71	LS	1.000	1.000	
0012	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	237.000	237.000	
0016	213.0100	Finishing Roadway (project) 02. 7930-00-71	EACH	1.000	1.000	
0018	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,174.000	2,174.000	
0020	305.0500	Shaping Shoulders	STA	28.000	28.000	
0022	455.0605	Tack Coat	GAL	7,168.000	7,168.000	
0024	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	2.000	2.000	
0026	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	2.000	2.000	
0028	460.2000	Incentive Density HMA Pavement	DOL	1,970.000	1,970.000	
0030	460.2005	Incentive Density PWL HMA Pavement	DOL	7,220.000	7,220.000	
0032	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	5,970.000	5,970.000	
0034	460.2010	Incentive Air Voids HMA Pavement	DOL	7,220.000	7,220.000	
0036	460.6645	HMA Pavement 5 MT 58-34 V	TON	10,867.000	10,867.000	
0040		Material Transfer Vehicle (project) 02. 7930-00-71	EACH	1.000	1.000	
0042	465.0105	Asphaltic Surface	TON	500.000	500.000	
0044	465.0110	Asphaltic Surface Patching	TON	300.000	300.000	
0046	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	124.000	124.000	
0048	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	26,360.000	26,360.000	
0050	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	12,030.000	12,030.000	
0052	614.0400	Adjusting Steel Plate Beam Guard	LF	1,054.000	1,054.000	
0054	614.0950	Replacing Guardrail Posts and Blocks	EACH	4.000	4.000	
0056	614.0951	Replacing Guardrail Rail and Hardware	LF	475.000	475.000	
0060	618.0100	Maintenance And Repair of Haul Roads (project) 02. 7930-00-71	EACH	1.000	1.000	
0062	619.1000	Mobilization	EACH	0.600	0.600	
0064	624.0100	Water	MGAL	33.000	33.000	
0066	625.0500	Salvaged Topsoil	SY	1,000.000	1,000.000	
0068	627.0200	Mulching	SY	1,000.000	1,000.000	
0070	628.1504	Silt Fence	LF	250.000	250.000	
0072	628.1520	Silt Fence Maintenance	LF	250.000	250.000	
0074	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000	
0076	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0078	628.7504	Temporary Ditch Checks	LF	50.000	50.000	
0800	629.0210	Fertilizer Type B	CWT	0.630	0.630	
0082	630.0130	Seeding Mixture No. 30	LB	18.000	18.000	
0084 0086	630.0500	Seed Water Maying Signs Type II	MGAL EACH	12.000 4.000	12.000 4.000	
	638.2102	Moving Signs Type II				
8800	638.4000	Moving Small Sign Supports	EACH	4.000	4.000	
0090	642.5001	Field Office Type B Traffic Control Drums	EACH	0.500	0.500 104.000	
0092	643.0300		DAY	104.000		
0094 0096	643.0900 643.1050	Traffic Control Signs Traffic Control Signs PCMS	DAY DAY	20.000 14.000	20.000 14.000	
0098	643.5000	Traffic Control	EACH	0.500	0.500	
0100	646.1020	Marking Line Epoxy 4-Inch	LF	8,644.000	8,644.000	
0100	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	29,501.000	29,501.000	
0102	648.0100	Locating No-Passing Zones	MI	29,501.000	2.830	
0100	649.0105	Temporary Marking Line Paint 4-Inch	LF	12,678.000	12,678.000	
0110	U-13.0103	remperary warking Line i and +-mon	LI	12,010.000	12,010.000	

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Estimate Of	Quantities	By Plan Sets
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Page	2

					7930-00-71
Line	Item	Item Description	Unit	Total	Qty
0112	649.0120	Temporary Marking Line Epoxy 4-Inch	LF	6,337.000	6,337.000
0114	650.8000	Construction Staking Resurfacing Reference	LF	14,928.000	14,928.000
0118	650.9910	Construction Staking Supplemental Control (project) 02. 7930-00-71	LS	1.000	1.000
0120	690.0150	Sawing Asphalt	LF	211.000	211.000
0122	740.0440	Incentive IRI Ride	DOL	11,310.000	11,310.000
0124	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0126	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000

				ASPHALT REM	OVAL SUMMARY			
				REMOVING ASPHALTIC SURFACE 204.0110	REMOVING ASPHALTIC SURFACE BUTT JOINTS 204.0115	REMOVING ASPHALTIC SURFACE MILLING 204.0120		
	CATEGORY STATION		LOCATI ON	SY	SY	SY	REMARKS	
	0010 168+40 0010 170+00 0010 217+38 0010 250+16 0010 250+97 0010 275+92 0010 277+64	- 170+00 - 275+92 - 217+65 - 250+80 - 251+17 - 276+92 - 278+64	STH 108 STH 108 STH 108 STH 108 STH 108 STH 108 STH 108	- - - - -	920 - 26 73 23 388 373	- 40, 678 - - - -	BOP BOP TO BRI DGE OXBOW RD ROD & GUN CLUB RD/STETZER R LAKE RD BRI DGE B-27-10 BRI DGE B-27-10	D
	0010 278+64 0010 178+82	- 317+68 - 255+00	STH 108 DRIVEWAYS	- 693	-	14, 568 -	BRI DGE TO EOP DRI VEWAYS	
		PRO	OJECT TOTALS =	693	1, 803	55, 246	:	
_	<u> </u>	REPARE FOUNDATION	<u>N</u>					
		PREPARE FOUNDATI ON FOR ASPHALTI C PAVI NG	PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS				BASE AGGREGATE DENS	SE 3/4-I NCH 305. 0110
	CATEGORY STATION TO STATION LOCATION	211. 0100 LS	211. 0400 STA	DEM	ARKS	CATE	GORY STATION TO STATION	LOCATION TON
	0010 168+40 - 317+68 STH 108 0020 168+40 - 174+89 LT SHLD 0020 168+40 - 176+40 RT SHLD 0020 191+10 - 276+06 LT & RT SHLD	1 - -	- 7 8 170	BOP T COUNTY LINE TO COUNTY LINE TO MEL-MIN SCHO	TO EOP MEL-MIN SCHOOL MEL-MIN SCHOOL	00 00 00	10 277+64 - 302+90	STH 71 1,543 STH 71 359 STH 71 272
	0020 191+10 - 270+00 ET & RT SHLD	-	52		5-FT SHLD		PRO	JECT TOTAL = 2,174
	PROJECT TOTALS	= 1	237	=				
						RUMBL	<u>E STRIP SUMMARY</u>	
	SHAPING SHOUL	<u>-DERS</u>			CATEGORY STATIO	N TO STATION LOG		ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL 465.0475 LF
			5. 0500		0010 168+40) - 276+92 ST	TH 108 -	8, 142
			STA		0010 277+6 ² 0010 302+90		TH 108 - 2856	3, 888
	0010 303+60 - 317+68	STH 108	28					
	PROJI	ECT TOTAL =	28			CAT 0010 SUB	TOTALS = 2,856	12, 030
					0020 168+40 0020 277+64		TH 108 18, 452 TH 108 5, 052	-
						CAT 0020 SUB	TOTALS = 23,504	0
						PROJECT TO	TALS = 26,360	12,030
Р	PROJECT NO : 7930-00-71 HWY : STH	108 <u></u>	COUNTY: J	ACKSON	MLSCELLANE	OUS QUANTITIES		SHEET

SHEET

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CATEGORY	STATI ON	TO	STATI ON	LOCATI ON	HMA PAVEMENT 5 MT 58-34 V 460.6645 TON	TACK COAT 455.0605 GAL	ASPHALTI C SURFACE 465. 0105 TON	ASPHALTIC SURFACE PATCHING 465. 0110 TON	ASPHALTIC SURFACE DRIVEWAY AND FIELD ENTRANCES 465.0120 TON	REMARKS
0010	168+40		276+92	BOP TO BRIDGE	4035	2882	_			BINDER LAYER
0010	168+40		276+92	BOP TO BRIDGE	3458	2059	_	_	-	SURFACE LAYER
0010	277+64		317+68	BRIDGE TO EOP	1463	1045	_	_	-	BINDER LAYER
0010	277+64		317+68	BRIDGE TO EOP	1254	746	_	_	-	SURFACE LAYER
0010	168+92	_	169+95	ARNOLD RD	35	25	_	_	-	BINDER LAYER
0010	168+92	_	169+95	ARNOLD RD	30	18	_	_	-	SURFACE LAYER
0010	217+34		217+80	OXBOW RD	9	6	_	-	-	BINDER LAYER
0010	217+34		217+80	OXBOW RD	7	5	_	_	<u>-</u>	SURFACE LAYER
0010	250+04	_	251+12	ROD & GUN CLUB RD/STETZER RD	31	22	_	_	-	BINDER LAYER
0010	250+04	_	251+12	ROD & GUN CLUB RD/STETZER RD	26	16	_		-	SURFACE LAYER
0010	250+04	_	251+12	LAKE RD	20	14	_		-	BINDER LAYER
0010	250+44		251+38	LAKE RD	20 17	10	_		-	SURFACE LAYER
0010	11+32		318+52	STH 108	-	-	_		124	DRI VEWAYS
0010	167+40		317+68	BOP TO EOP	_	_	500	300	-	UNDI STRI BUTED
0010	107740	_	317+00	BOI TO LOI	-	_	300	300	-	ONDI STRI DOTED
				CAT 0010 SUBTOTALS =	10, 385	6, 848	500	300	124	
0020	168+40	_	176+40	EXTENDED SHLD RT	9	7	_	-	_	BINDER LAYER
0020	168+40	_	176+40	EXTENDED SHLD RT	8	5	_	_	_	SURFACE LAYER
0020	168+40	_	174+89	EXTENDED SHLD LT	8	6	_	_	_	BINDER LAYER
0020	168+40	_	174+89	EXTENDED SHLD LT	7	4	_	_	_	SURFACE LAYER
0020	191+10	_	276+06	EXTENDED SHLD RT	93	67	_	_	_	BINDER LAYER
0020	191+10	_	276+06	EXTENDED SHLD RT	80	48	_	_	_	SURFACE LAYER
0020	191+10	_	276+06	EXTENDED SHLD LT	93	67	_	_	_	BINDER LAYER
0020	191+10	_	276+06	EXTENDED SHLD LT	80	48	_	_	_	SURFACE LAYER
0020	278+50	_	303+60	EXTENDED SHLD RT	28	20	_	_	_	BINDER LAYER
0020	278+50	_	303+60	EXTENDED SHLD RT	24	14	_	_	_	SURFACE LAYER
0020	278+50	_	000 (0	EXTENDED SHLD LT	28	20	_	_	_	BINDER LAYER
0020	278+50		303+60	EXTENDED SHLD LT	24	14	-	-	-	SURFACE LAYER
				CAT 0020 SUBTOTALS =	482	320	0	0	0	
			_	PROJECT TOTALS =	10, 867	7, 168	500	300	124	
					HMA ADDITIO	NAL ITEMS S	SUMMARY			
				PROJECT TOTALS =	HMA ADDITIO	NAL ITEMS S	<u>SUMMARY</u>	HMA PERCENT MA	TERI AL ANSFER	
						LIMITS STRIP	(PWL) TEST	(PWL) TEST VEHIC STRIP DENSITY OF	CLE (7930- 10-71) 1. 9000. S	
				CATEGORY STATION TO STATI	ION LOCATION		EACH		EACH	
				CATEGORI STATION TO STATE	TUN LOUATION		EACH	LACII	EACH	

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MISCELLANEOUS QUANTITIES

PROJECT TOTALS =

COUNTY: JACKSON

HWY: STH 108

PROJECT NO: 7930-00-71

FOR INFORMATIONAL PURPOSES ONLY

						QUALITY MANAGEMENT PR	GRAM TO BE USED FOR:	
STATION TO STATION	LOCATI ON	MI XTURE	UNDERLYING SURFACE	TONS	THI CKNESS	MIXTURE ACCEPTANCE	DENSITY ACCEPTANCE	
168+40 - 276+92	STH 108 LOWER LAYER	HMA PAVEMENT 5 MT 58-34 V	MILLED SURFACE	2835. 989	1. 75	PWL INCENTIVE AIR VOIDS HMA	INCENTIVE DENSITY PWL HMA	
	MAI NLI NE					PAVEMENT 460. 2010	PAVEMENT 460. 2005	
168+40 - 276+92	STH 108 UPPER LAYER MAINLINE	HMA PAVEMENT 5 MT 58-34 V	HMA PAVEMENT 5 MT 58-34 V	2430. 848	1. 5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2011	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2006	
	STH 108 LOWER LAYER						INCENTIVE DENSITY	
168+40 - 276+92	SHOULDER	HMA PAVEMENT 5 MT 58-34 V	MILLED SURFACE	ED SURFACE 1181.662 1.75	1. 75	QMP AS PER SS 460	HMA PAVEMENT 460. 2000	
168+40 - 276+92	STH 108 UPPER LAYER	HMA PAVEMENT 5 MT 58-34 V	HMA PAVEMENT 5 MT 58-34 V	1012. 853	1. 5	QMP AS PER SS 460	INCENTIVE DENSITY	
100110 270172	SHOULDER	THUR THE PROPERTY OF WITH GO OT V	THINK TARVEMENT O MIT OO OT V	1012.000			HMA PAVEMENT 460.2000	
277+64 - 302+90	STH 108 LOWER LAYER MAINLINE	HMA PAVEMENT 5 MT 58-34 V	MILLED SURFACE	660. 128	1. 75	PWL INCENTIVE AIR VOIDS HMA	INCENTIVE DENSITY PWL HMA	
277+04 - 302+90		TIMA PAVEMENT 5 MT 58-54 V MILEED SONTACE 000. 128 T.	1. 73	PAVEMENT 460.2010	PAVEMENT 460.2005			
277+64 - 302+90	STH 108 UPPER LAYER MAINLINE	LIMA DAVEMENT 5 MT 50 24 V	A PAVEMENT 5 MT 58-34 V HMA PAVEMENT 5 MT 58-34 V	565. 824	1.5	PWL INCENTIVE AIR VOIDS HMA	INCENTIVE DENSITY PWL HMA	
277+04 - 302+90		TIMA FAVEIMENT 5 INT 38-34 V				PAVEMENT 460.2011	PAVEMENT 460. 2006	
277+64 - 302+90	STH 108 LOWER LAYER	HMA PAVEMENT 5 MT 58-34 V	MILLED SURFACE	275. 053	1. 75	QMP AS PER SS 460	INCENTIVE DENSITY	
277+04 - 302+90	SHOULDER	TIMA LAVEIMENT 3 INT 30-34 V	WIT ELED SONT AGE				HMA PAVEMENT 460.2000	
277+64 - 302+90	STH 108 UPPER LAYER	HMA PAVEMENT 5 MT 58-34 V	HMA PAVEMENT 5 MT 58-34 V	235. 760 1. 5	1 5	QMP AS PER SS 460	INCENTIVE DENSITY	
277+04 - 302+90	SHOULDER	HIMA PAVEIMENT 5 INT 58-34 V	HIVIA PAVEIMENT 5 IVIT 56-34 V		QMF AS FER 33 400	HMA PAVEMENT 460.2000		
302+90 - 317+68	STH 108 LOWER LAYER	HMA PAVEMENT 5 MT 58-34 V	MILLED SURFACE	386. 251	1. 75	PWL INCENTIVE AIR VOIDS HMA	INCENTIVE DENSITY PWL HMA	
302+90 - 317+08	MAI NLI NE	HIMA PAVEIMENT 3 INT 36-34 V	WILLED SURFACE	300. 231	1. 75	PAVEMENT 460.2010	PAVEMENT 460.2005	
302+90 - 317+68	STH 108 UPPER LAYER MAINLINE	I HMA PAVEMENT 5 MT 58-34 V I HMA PAVEMENT 5 MT 58-34 V I 33	331. 072	1. 5	PWL INCENTIVE AIR VOIDS HMA	INCENTIVE DENSITY PWL HMA		
302+90 - 317+08			331.072	1. 5	PAVEMENT 460.2011	PAVEMENT 460.2006		
302+90 - 317+68	STH 108 LOWER LAYER	108 LOWER LAYER HMA PAVEMENT 5 MT 58-34 V MILLED SURFACE 193.	193. 125	1. 75	QMP AS PER SS 460	INCENTIVE DENSITY		
302+90 - 317+08	SHOULDER		WILLED SUKFACE	193. 125	1. 73	UIVIP AS PER 33 400	HMA PAVEMENT 460.2000	
302+90 - 317+68	STH 108 UPPER LAYER	HMA PAVEMENT 5 MT 58-34 V	HMA PAVEMENT 5 MT 58-34 V	165. 536	1. 5	OMP AS PER SS 460	INCENTIVE DENSITY	
302+70 - 317+00	SHOULDER	THE TAVENERY 5 IN 50-54 V	THINA TAVEINIENT 5 INT 50-54 V	100.000	1. ປ	UWIF AS PER 35 400	HMA PAVEMENT 460.2000	

REPLACI NG

<u>BEAM</u>	GUARD	<u>SUMMAR</u>	Y

STEEL PLATE REPLACING GUARDRAIL GUARDRAIL RAIL

ADJUSTI NG

					BEAM GUARD 614.0400	POSTS AND BLOCKS 614.0950	AND HARDWARE 614.0951	
CATEGORY	STATI ON	TO	STATI ON	LOCATI ON	LF	EACH	LF	REMARKS
0010	276+10	-	276+60	SE OF BRIDGE	50	-	-	RT EAT
0010	276+10	-	276+60	SW OF BRIDGE	50	-	-	LT EAT
0010	276+80	-	276+80	STH 108 LT	-	1	-	THRIE BEAM BLOCK
0010	277+96	-	278+46	NE OF BRIDGE	50	-	-	RT EAT
0010	277+96	-	278+46	NW OF BRIDGE	50	-	-	LT EAT
0010	293+84	-	301+88	STH 108 RT	804	-	-	-
0010	300+86	-	301+36	STH 108 LT	50	-	-	NW EAT
0010	294+78	-	296+78	STH 108 RT	-	-	200	-
0010	298+40	-	298+90	STH 108 RT	-	-	50	-
0010	300+65	-	301+15	STH 108 RT	-	-	50	-
0010	298+34	-	300+09	STH 108 LT	-	-	175	-
0010	300+72	-	300+72	STH 108 RT	-	1	-	POST & BLOCK
0010	293+84	-	301+88	STH 108 RT	-	2	-	BLOCKS
				PROJECT TOTAL =	1, 054	4	475	

<u>WATER</u>

CATEGORY	LOCATI ON	624.0100 MGAL	REMARKS
0010	STH 108	33	3/4-IN
PRO)JECT TOTAL =	33	

PROJECT NO: 7930-00-71 HWY: STH 108 COUNTY: JACKSON MISCELLANEOUS QUANTITIES SHEET E

		CATEGORY 0010	LOCATI ON UNDI STRI BUTED	SALV/ TOPS 625. (S\	0500 Y	MULCHI NG 627. 0200 SY 1, 000	SILT FENCE 628. 1504 LF 250	SILT FENCE MAINTENANCE 628. 1520 LF 250	TEMPORARY DI TCH CHECKS 628. 7504 LF 50	FERTI LI ZER TYPE B 629. 0210 CWT 0. 63	SEEDI NG MI XTURE NO. 30 630. 0130 LB	SEED WATER 630.0500 MGAL 12	-
		0010	PROJECT TOTAL			1, 000	250	250	50	0. 63	18	12	=
		MOBILIZATI	ON EROSION CONTR	ROL						1	MOVING SI	GN SUMMARY	
	CATEGORY	LOCATI ON	MOBILIZATIONS EROSION CONTROL 628. 1905	MOBILIZA EMERGEI EROSI CONTRI 628. 19	NCY ON OL 910			_CA	TEGORY L	LOCATI ON	MOVING TYPE 638.2 EAC	SI GNS SM II S 2102 6	MOVING MALL SIGN SUPPORTS 538.4000 EACH REMARKS
		DI STRI BUTED	EACH 2	EACH 2	1				0010 UND	I STRI BUTED	4		4 NO PASSING ZONE
	PROJ	ECT TOTALS =	2	2						ECT TOTAL =			-
ATEGORY STA	TATION TO STATIO	N LOCATI ON	TRAFFIC CONTROL CONTRO	CONTROL TI SI GNS CO 543. 0900 64	ARY RAFFIC ONTROL 13. 5000 EACH	*** TRAFFI CONTRO SIGNS PO 643. 105 DAY	L CMS	REMARKS		CATECOD			ASSING ZONES 648.010
	68+40 - 317+68				0. 5	14	FOR	DD FOR TRAFFIC R LANE CLOSURE LAGGING OPERAT	WITH	0010	168+40	<u>TO STATI</u> - 317-	+68 STH 108 2.83
0010 27	71+84 - 306+15	STH 108	104	20	-	-	FOR	DD FOR TRAFFIC R WORK ON SHOUL UNDIVIDED ROADW	LDER,				PROJECT TOTAL = 2.83
		PROJECT TO	OTAL = 104	20	0. 5	14							
										I			
* PLACE ONE	WEEK PRIOR TO	CONSTRUCTI ON											

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PAVEMENT MARKING SUMMARY

MARKING LINE

MARKING LINE GROOVED WET REF TEMPORARY MARKING TEMPORARY MARKING EPOXY 4-INCH LINE PAINT 4-INCH LINE EPOXY 4-INCH

					646. 1020	646. 1040	649. 0105	649. 0120	
CATEGORY	STATI ON	TO	STATI ON	LOCATI ON	LF	LF	LF	LF	REMARKS
0010	168+40	_	208+07	STH 108 CL	992	-	635	317	CENTERLINE DASHED - YELLOW
0010	208+07	_	216+88	STH 108 CL	220	_	141	70	CENTERLINE DASHED - YELLOW
0010	208+07	-	216+88	STH 108 CL	881	-	1, 762	881	CENTERLINE SOLID - YELLOW
0010	216+88	_	230+86	STH 108 CL	2, 796	-	5, 592	2, 796	CENTERLINE SOLID - DOUBLE YELLOW
0010	230+86	-	241+91	STH 108 CL	1, 105	-	2, 210	1, 105	CENTERLINE SOLID - YELLOW
0010	230+86	-	241+91	STH 108 CL	276	-	177	88	CENTERLINE DASHED - YELLOW
0010	241+91	-	276+92	STH 108 CL	875	-	560	280	CENTERLINE DASHED - YELLOW
0010	276+92	-	277+64	STRUCTURE CL	18	-	-	-	CENTERLINE DASHED - YELLOW
0010	277+64	-	312+88	STH 108 CL	881	-	564	282	CENTERLINE DASHED - YELLOW
0010	312+88	-	317+68	STH 108 CL	120	-	77	38	CENTERLINE DASHED - YELLOW
0010	312+88	-	317+68	STH 108 CL	480	-	960	480	CENTERLINE SOLID - YELLOW
0010	168+40	-	169+00	STH 108 EL LT	-	160	-	-	EDGELINE SOLID - WHITE
0010	168+40	-	250+52	STH 108 EL RT	-	8, 317	-	-	EDGELINE SOLID - WHITE
0010	170+00	-	178+90	STH 108 EL LT	-	880	-	-	EDGELINE SOLID - WHITE
0010	179+50	-	186+55	STH 108 EL LT	-	646	-	-	EDGELINE SOLID - WHITE
0010	187+10	-	217+24	STH 108 EL LT	-	2, 969	-	-	EDGELINE SOLID - WHITE
0010	217+84	-	250+12	STH 108 EL LT	-	3, 224	-	-	EDGELINE SOLID - WHITE
0010	251+15	-	276+92	STH 108 EL LT	-	2, 581	-	-	EDGELINE SOLID - WHITE
0010	251+40	-	276+92	STH 108 EL RT	-	2, 556	-	-	EDGELINE SOLID - WHITE
0010	276+92	-	277+64	STRUCTURE EL LT	-	72	-	-	EDGELINE SOLID - WHITE
0010	276+92	-	277+64	STRUCTURE EL RT	-	72	-	-	EDGELINE SOLID - WHITE
0010	277+64	-	317+68	STH 108 EL LT	-	4, 012	-	-	EDGELINE SOLID - WHITE
0010	277+64	-	317+68	STH 108 EL RT	-	4, 012	-	-	EDGELINE SOLID - WHITE
				PROJECT TOTALS =	8, 644	29, 501	12, 678	6, 337	

NOTES: TEMPORARY MARKING PAINT PLACED IN TWO APPLICATIONS (MILLED & BINDER SURFACE)
TEMPORARY MARKING EPOXY PLACED IN ONE APPLICATIONS (FINAL SURFACE)

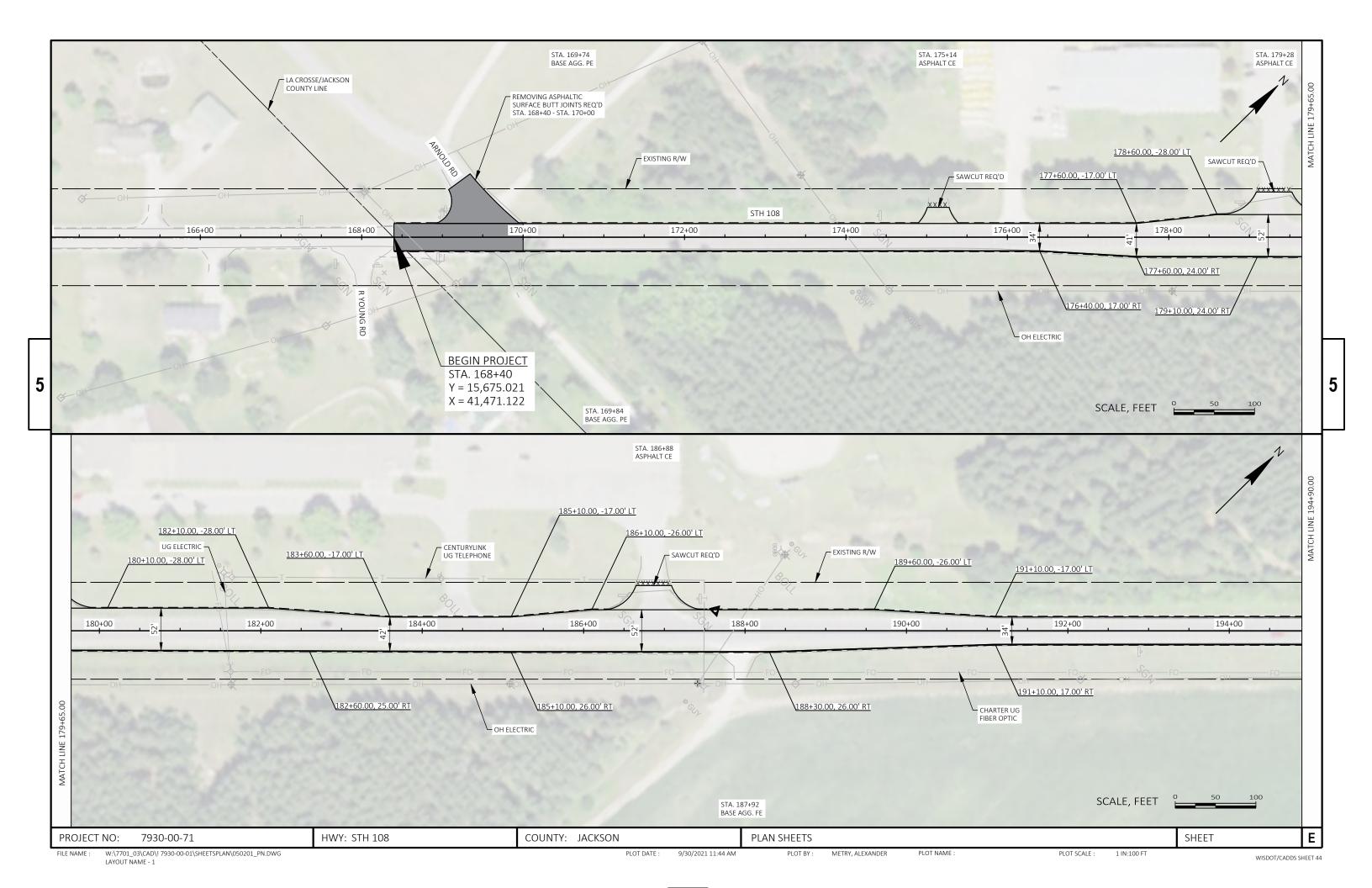
CONSTRUCTION STAKING SUMMARY

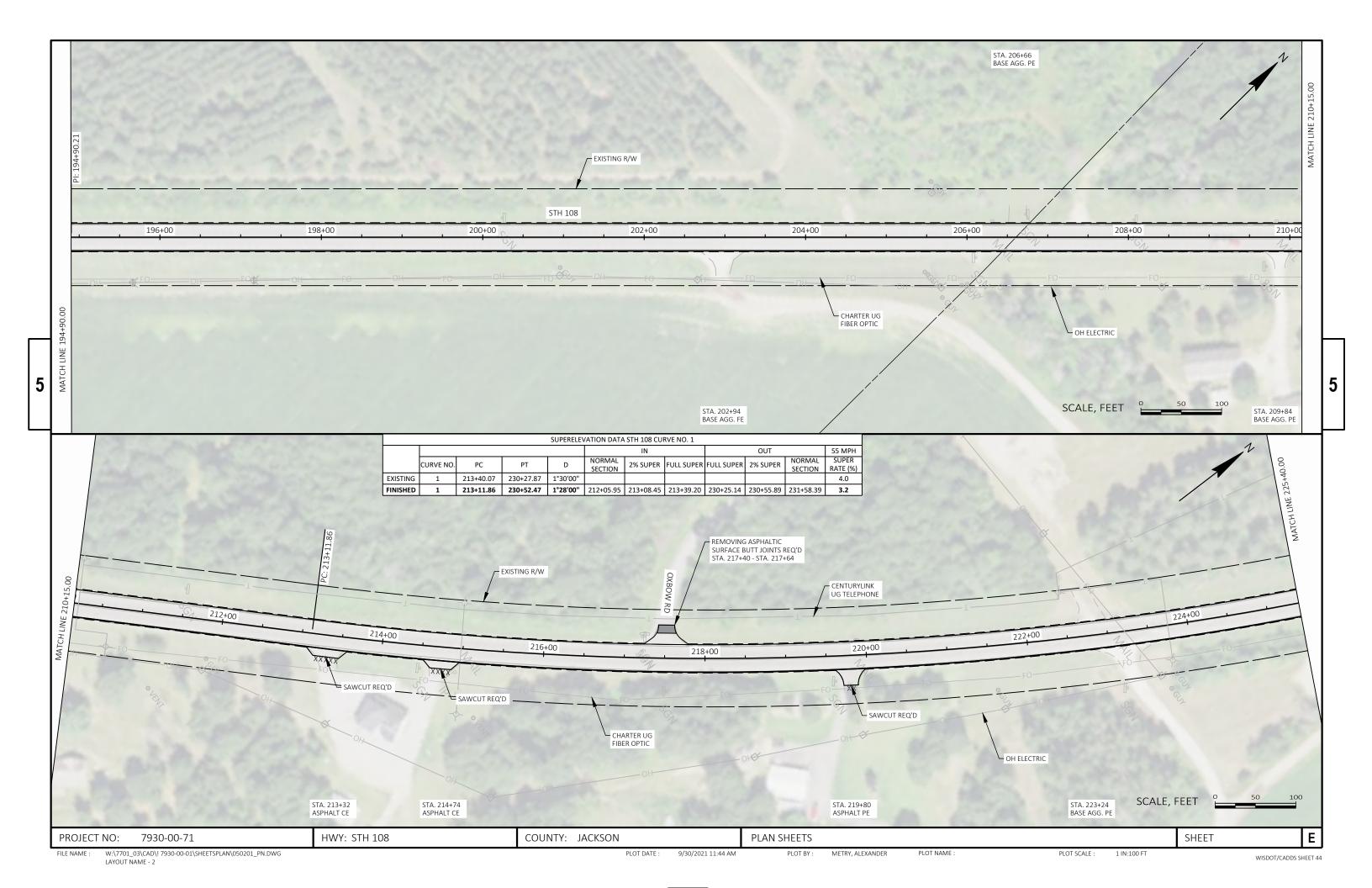
					CONSTRUCTI ON STAKI NG RESURFACI NG REFERENCE 650, 8000	CONSTRUCTION STAKING SUPPPLEMENTAL CONTROL 650. 9910
CATEGORY	STATI ON	ТО	STATI ON	LOCATI ON	LF	LS
0010	168+40	-	317+68	STH 71	14, 928	1
			PROJECT	Γ TOTALS =	14, 928	1

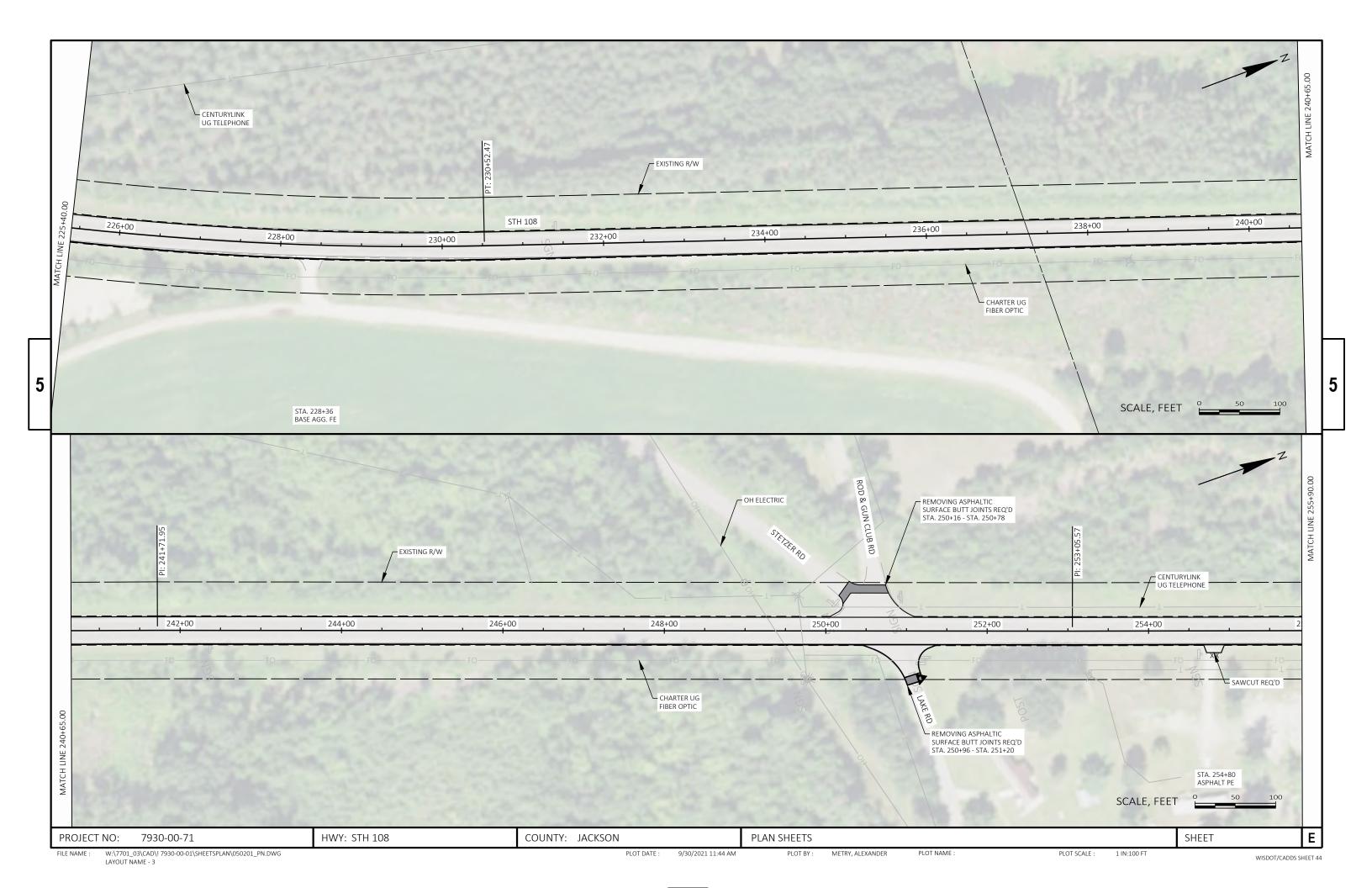
SAWING ASPHALT

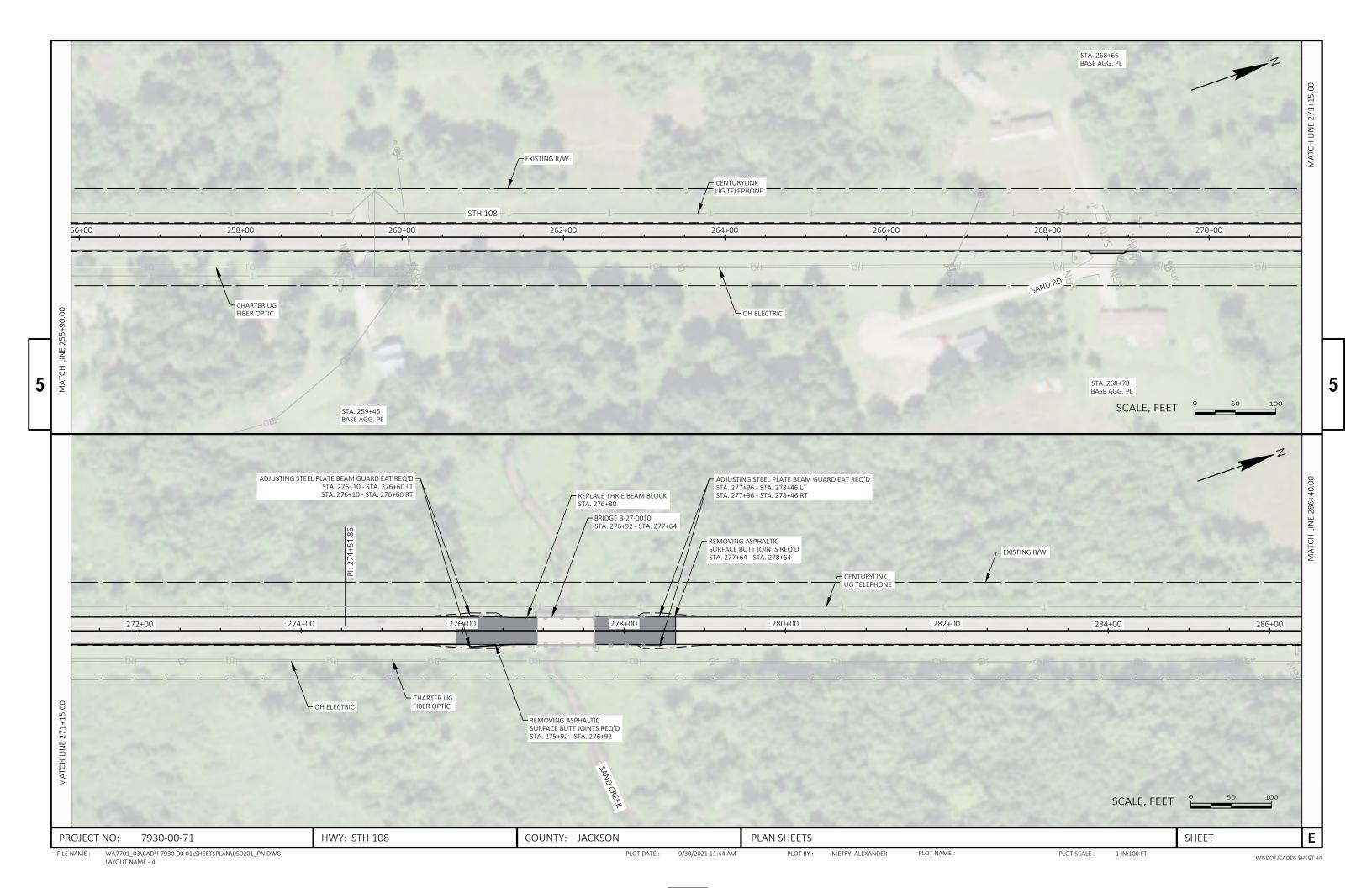
					690. 0150
CATEGORY	/ STATION	TO	STATI ON	LOCATI ON	LF
0010	175+00	_	175+29	LT CE	28
0010	179+08	_	179+52	LT CE	44
0010	186+64	-	187+09	LT CE	45
0010	213+19	-	213+48	RT CE	29
0010	214+59	-	214+89	RT CE	29
0010	219+71	-	219+87	RT PE	17
0010	254+71	-	254+90	RT PE	19
				PROJECT TOTAL =	211

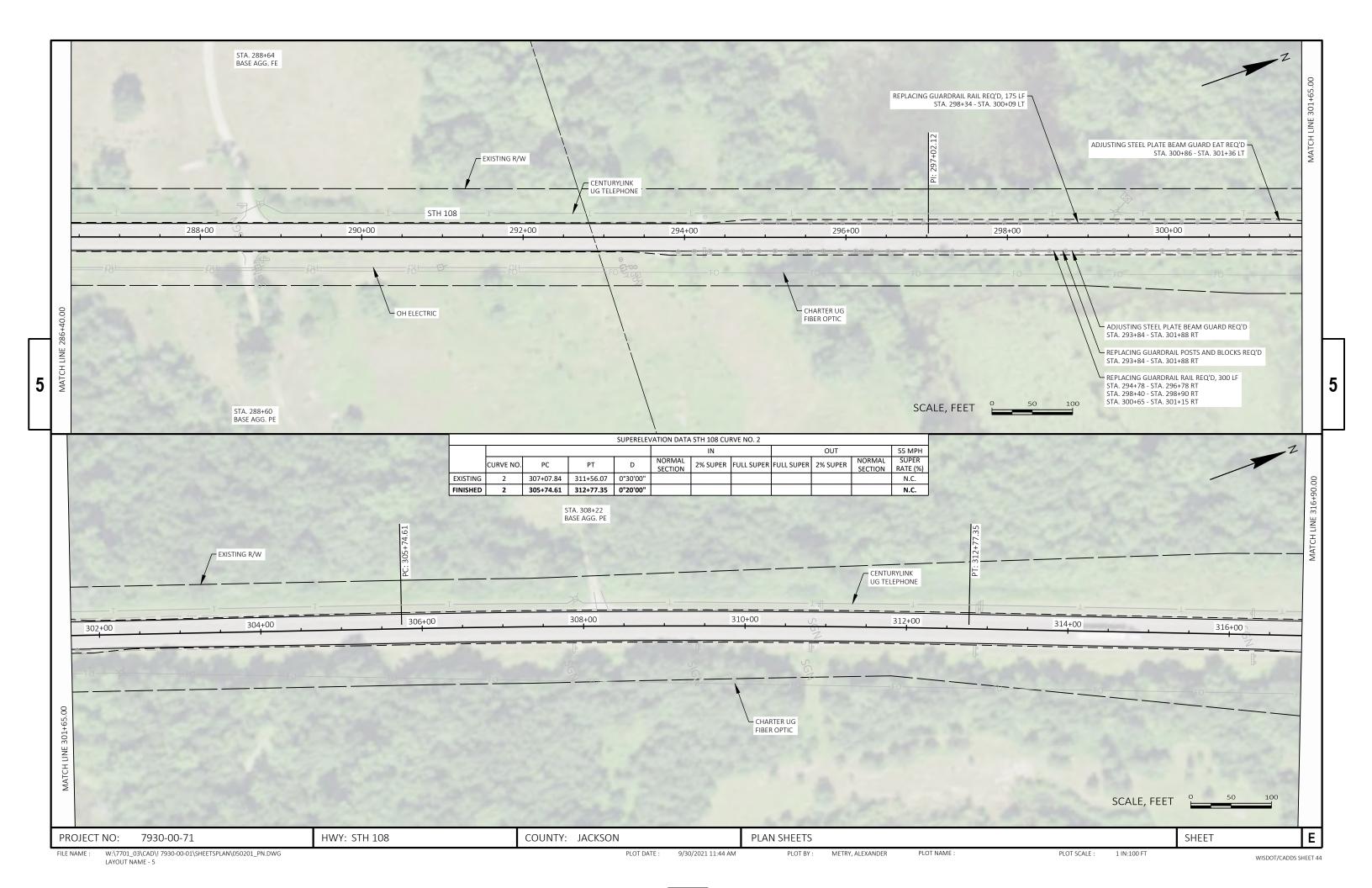
PROJECT NO: 7930-00-71 HWY: STH 108 COUNTY: JACKSON MISCELLANEOUS QUANTITIES SHEET E

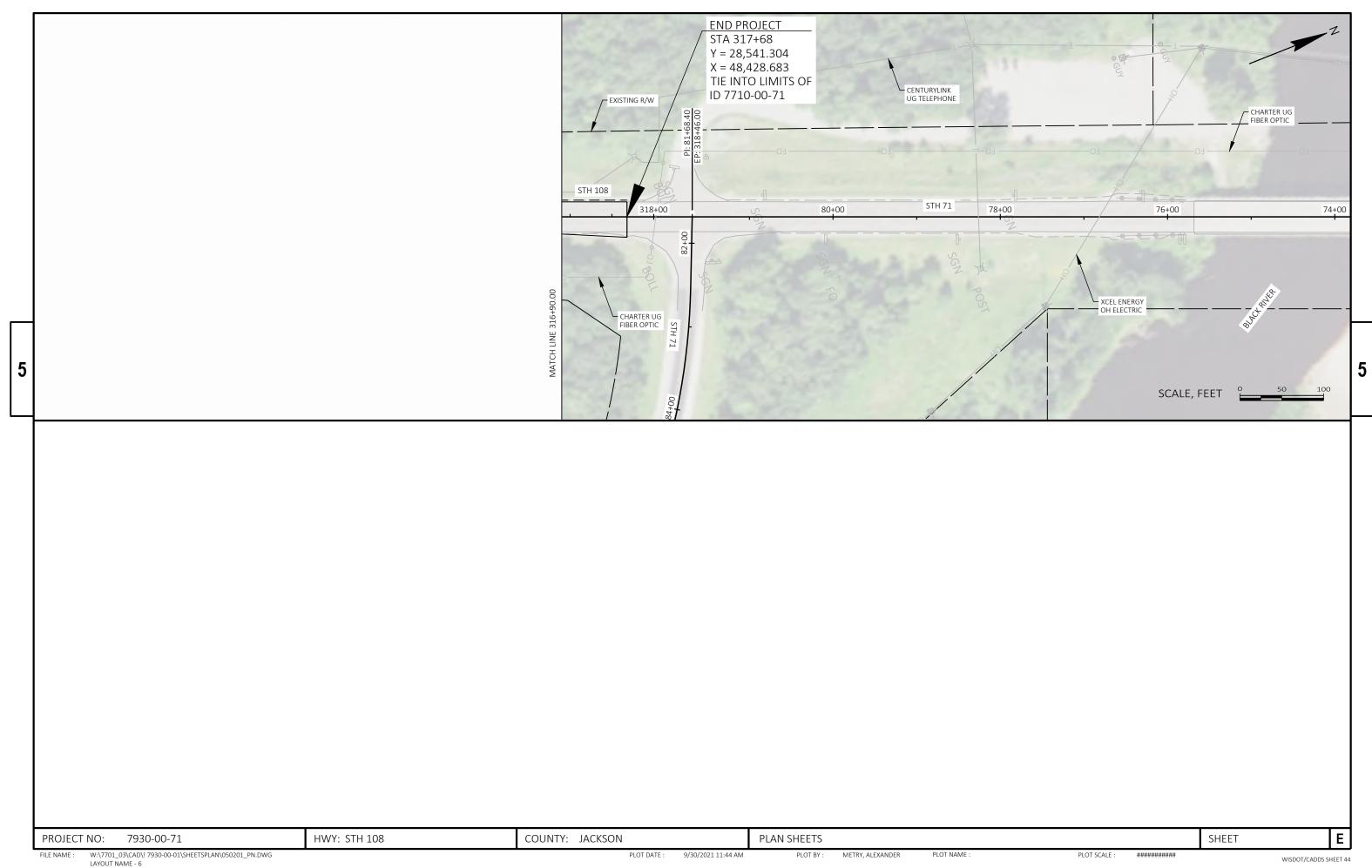






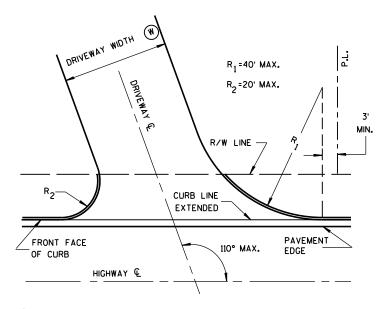






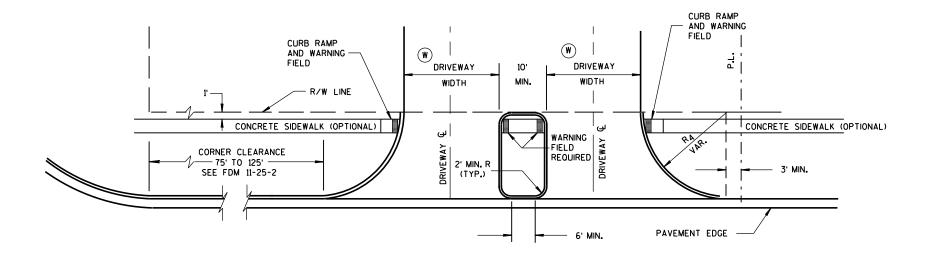
Standard Detail Drawing List

08D20-01	DRIVEWAYS WITH CURB & GUTTER RETURNS
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08D22-01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
13A10-02A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13C19-03	HMA LONGITUDINAL JOINTS
14B15-11A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B24-09A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-09B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-09C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C08-20B	PAVEMENT MARKING (TURN LANES)
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
15D45-03	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL



SKEWED DRIVEWAY DETAILS (COMMERCIAL AND NON-COMMERCIAL)

SIDEWALK NOT SHOWN



DRIVEWAY LOCATION AND SPACING DETAILS SIDEWALK SHOWN

NOTES

A MAXIMUM RADIUS OF 10 FEET SHALL BE USED FOR NON-COMMERCIAL PRIVATE ENTRANCES. RADII FOR COMMERCIAL DRIVEWAYS SHALL BE DETERMINED BY THE ENGINEER BASED ON TRAFFIC AND DRIVEWAY PERMIT RESTRICTIONS.

THE MINIMUM ANGLE OF INTERSECTION BETWEEN THE DRIVEWAY AND HIGHWAY CENTERLINES SHALL BE 70°.

ALL CURVILINEAR PRIVATE ENTRANCE OUTLINES SHALL BE CONTAINED WITHIN THE HIGHWAY R/W.

NO DRIVEWAY SHALL BE BUILT WITHIN 3 FEET OF THE PROPERTY LINE EXCEPT FOR EXISTING JOINT DRIVEWAY SHARED BY TWO OWNERS.

W DRIVEWAY WIDTHS:

COMMERCIAL - 35' MAX., 16' MIN.

RESIDENTIAL AND - 24' MAX., 12' MIN.

DRIVEWAYS WITH CURB & GUTTER RETURNS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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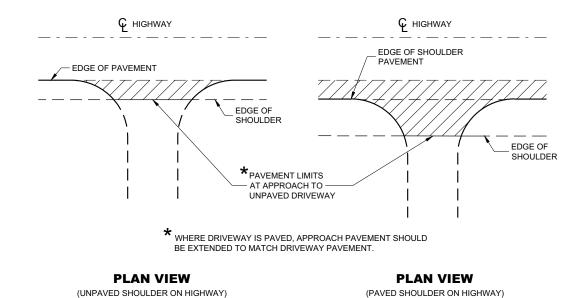
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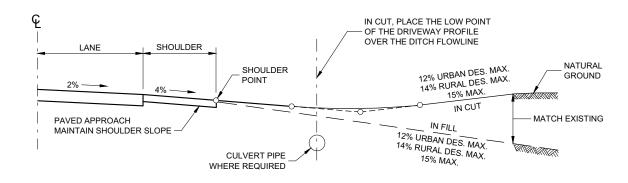
PPROVED

DATE ROADWAY STANDARDS DEVELOPMENT
HWA UNIT SUPERVISOR

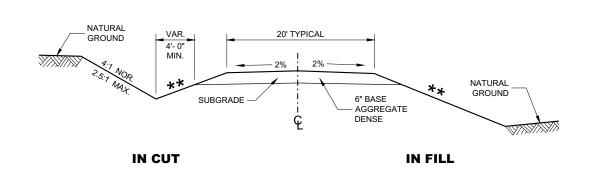
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RURAL DRIVEWAY INTERSECTION DETAIL (NO CURB AND GUTTER OR SIDEWALK)



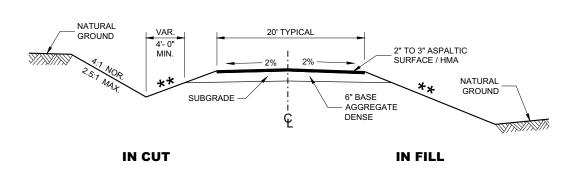
TYPICAL DRIVEWAY PROFILES



TYPICAL CROSS SECTION FOR

PRIVATE DRIVE OR FIELD ENTRANCE **AGGREGATE SURFACE**

** SLOPE CAN VARY WITH SPEED. SEE 11-45-30.6.2 POSTED SPEED MAX. SLOPE MPH <35 4:1 ≥ 35 TO < 60 6:1 10:1 ≥60



TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

DRIVEWAYS WITHOUT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

CURB AND GUTTER

APPROVED

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR December 2017 DATE

SDD

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08D21

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08D21

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GENERAL NOTES

DESIGN WILL DETERMINE FINAL DRIVEWAY ASPHALTIC THICKNESS BASED ON TYPE OF USAGE AND LOADINGS.

EXISTING ASPHALTIC SURFACE DRIVEWAY — 8' TO 10' SHOULDER —= HMA PAVEMENT - 5' TO 20' -5' TO 7'-OVERLAY 2.00% 4.00% VARIES - EXISTING HMA PAVEMENT REMOVE EXISTING ASPH. PAV'T EXISTING BASE & BASE COURSE TO A DEPTH AGGREGATE DENSE SUFFICIENT TO PLACE 2" TO 3" ASPHALTIC SURFACE & 6" 2" TO 3" ASPHALTIC SURFACE (1) BASE AGGREGATE DENSE 6" BASE AGGREGATE MATCH EXISTING DRIVEWAY DENSE (MAY BE INCREASED FOR CLAY SUBGRADES)

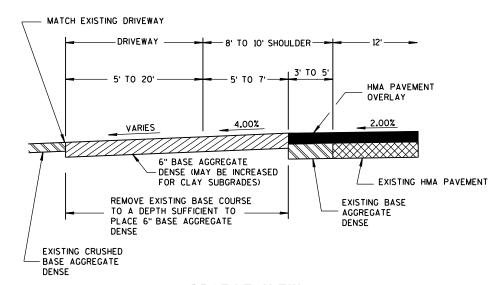
PLAN VIEW

HALF SECTION

PROFILE VIEW

RURAL ENTRANCE
WITH ASPHALTIC SURFACE

RESURFACING PROJECTS



PLAN VIEW HALF SECTION

PROFILE VIEW

RURAL ENTRANCE
WITH AGGREGATE SURFACE

6" BASE AGGREGATE DENSE RESURFACING PROJECTS

DRIVEWAYS WITHOUT
CURB & GUTTER
RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

FHWA

December. 2016 /S/ Rodney Taylor
DATE ROADWAY STANDARDS DEVELOPMENT

UNIT SUPERVISOR

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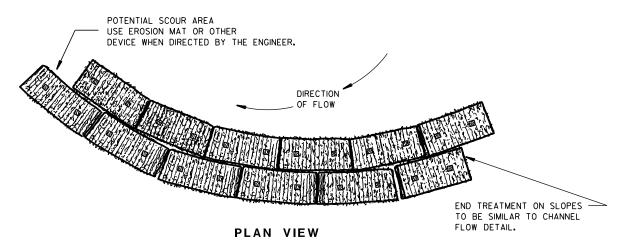
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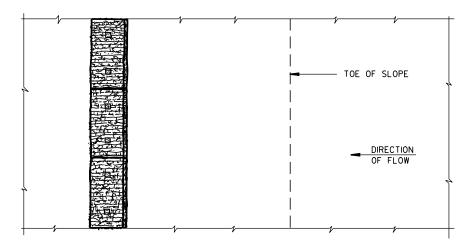
GENERAL NOTES

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.

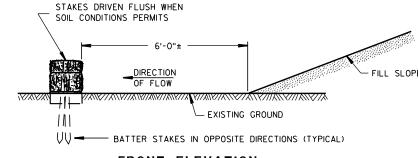
1 TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

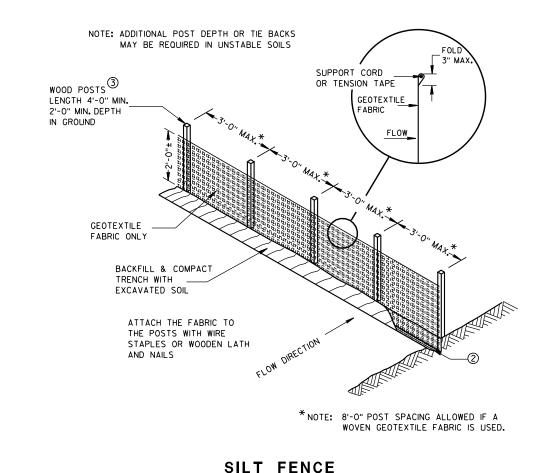
APPROVED

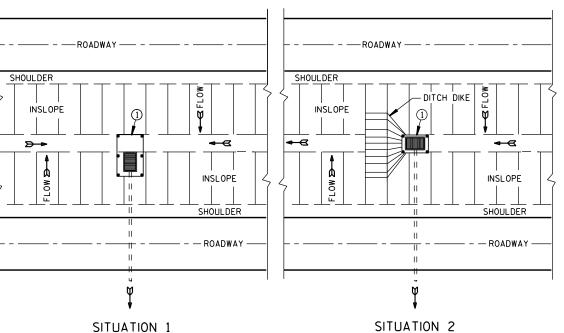
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

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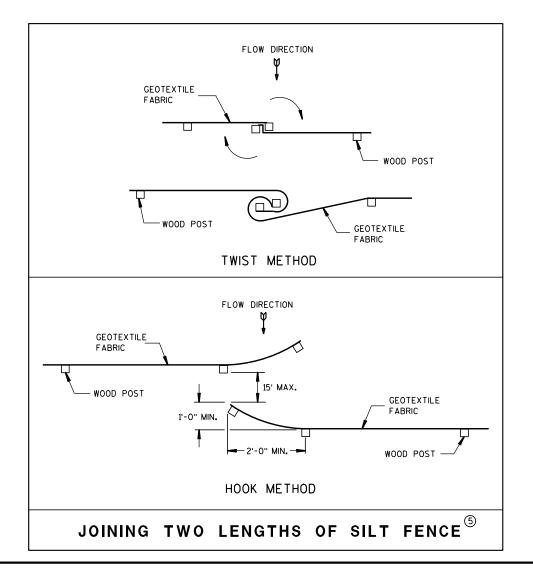
D.D. 8 E 8-3

TYPICAL APPLICATION OF SILT FENCE





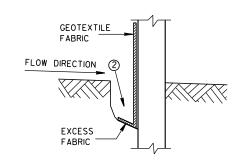
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



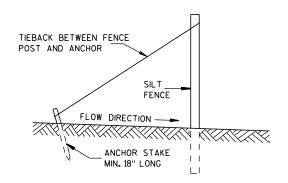
GENERAL NOTES

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

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- 2 FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL

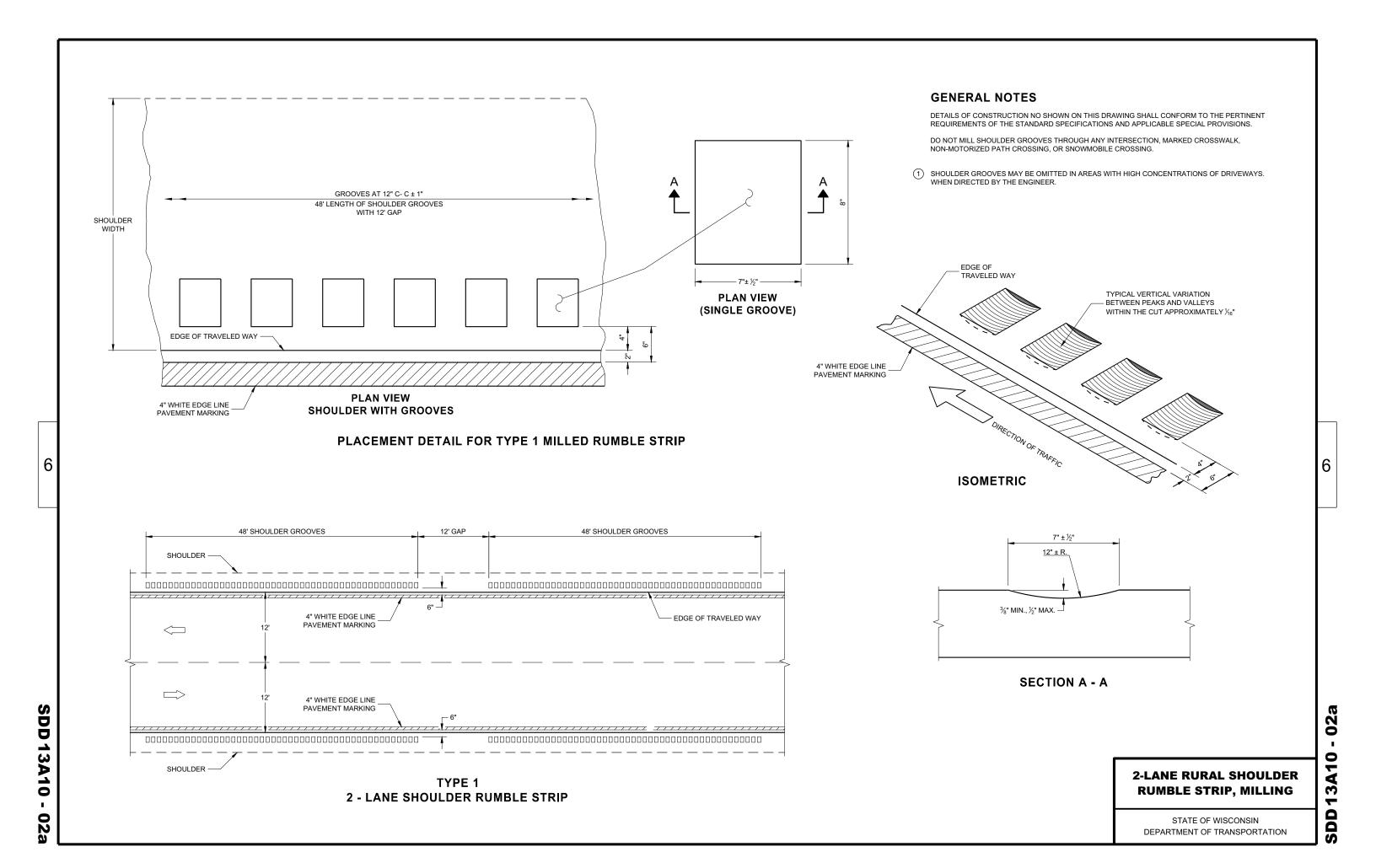


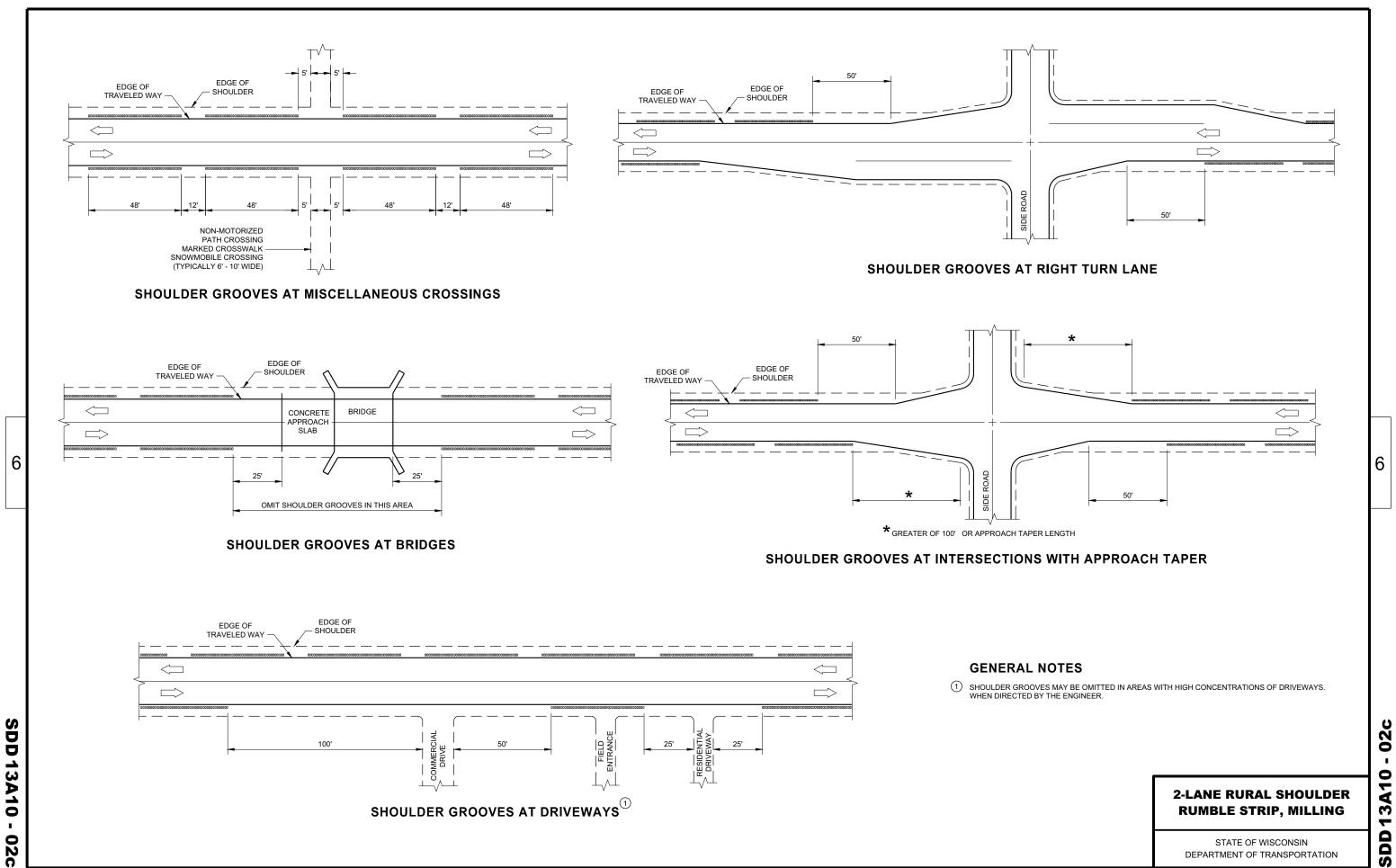
SILT FENCE TIE BACK (WHEN REQUIRED BY THE ENGINEER)

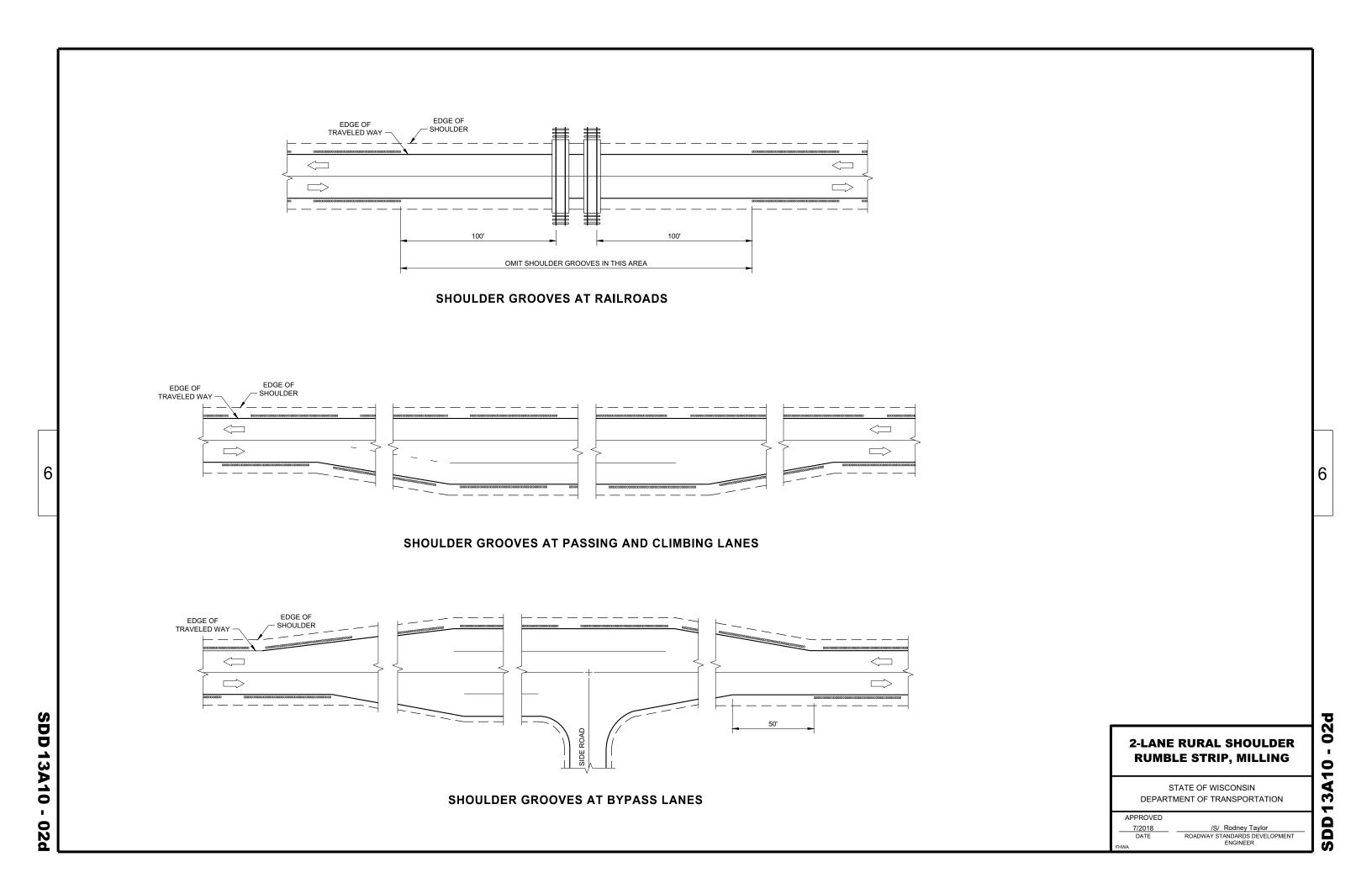
SILT FENCE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION APPROVED 4-29-05 /S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

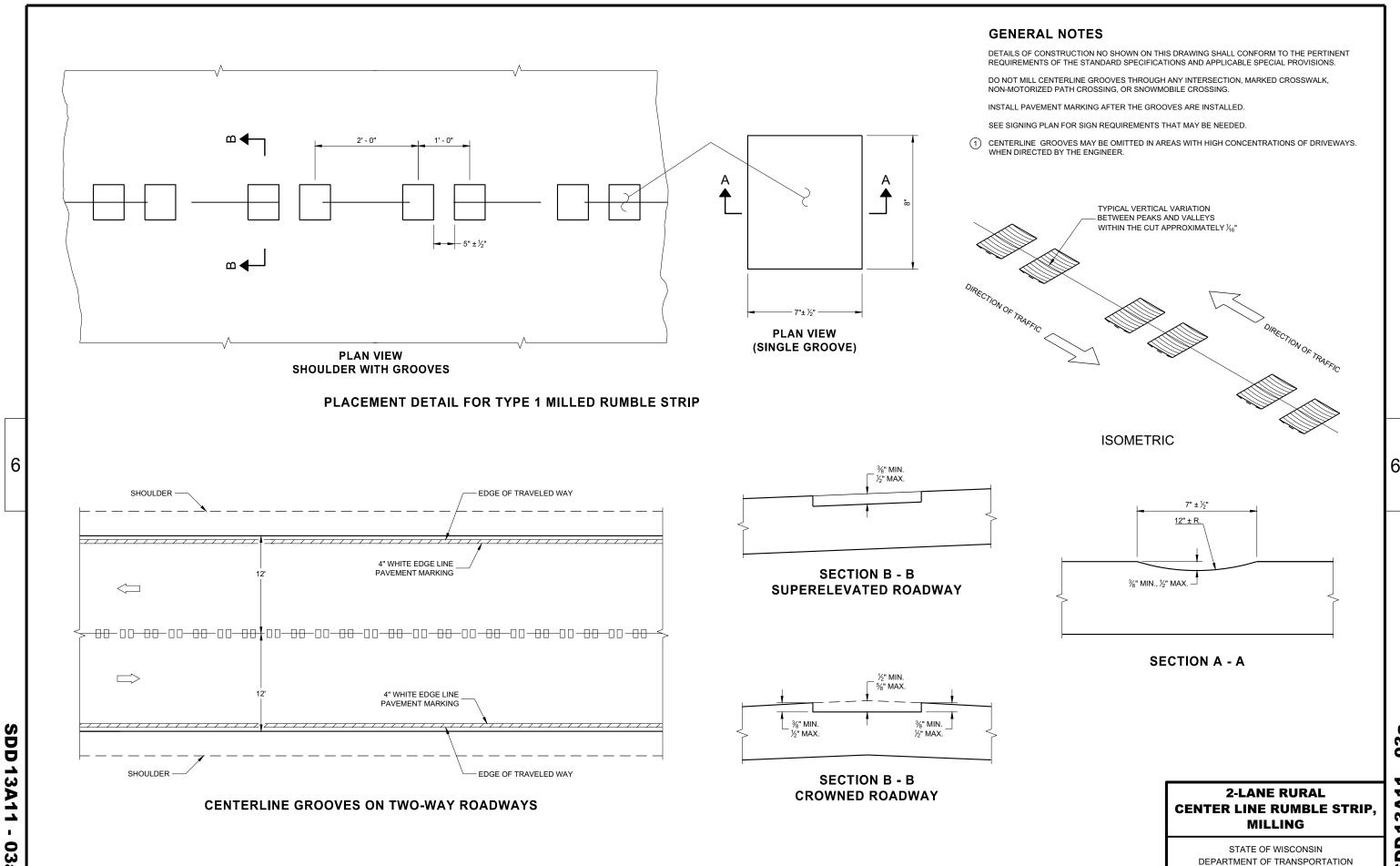
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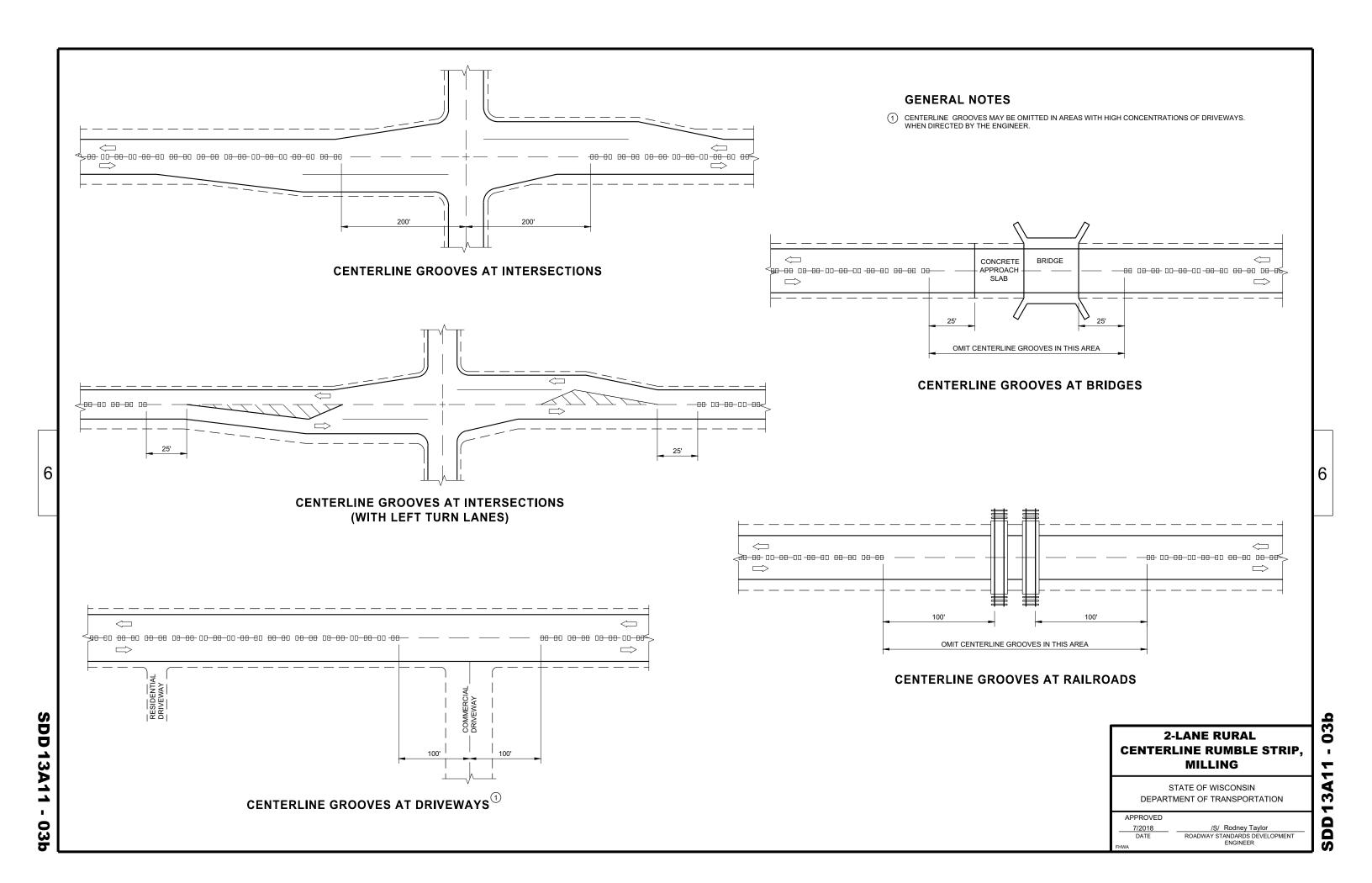


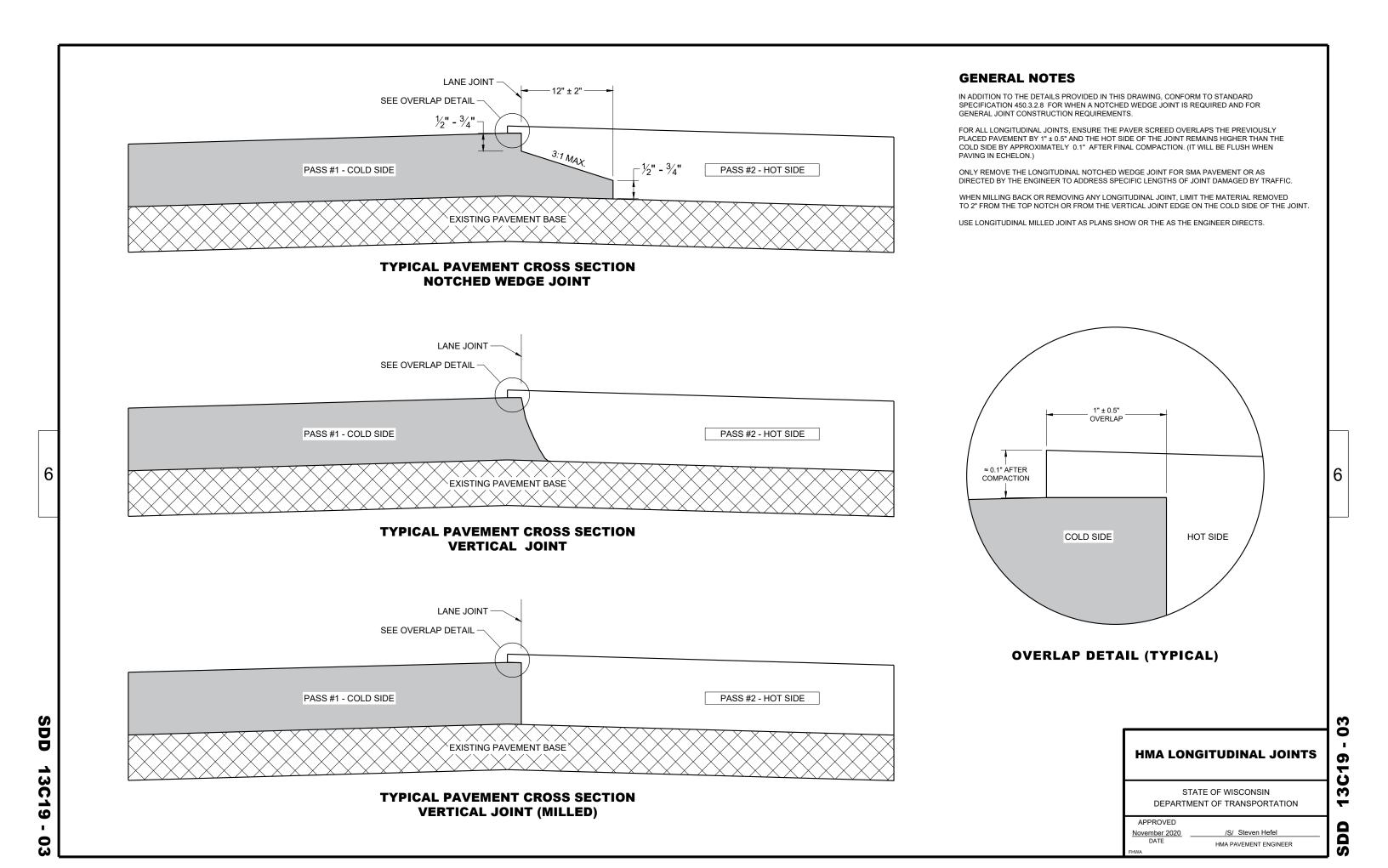


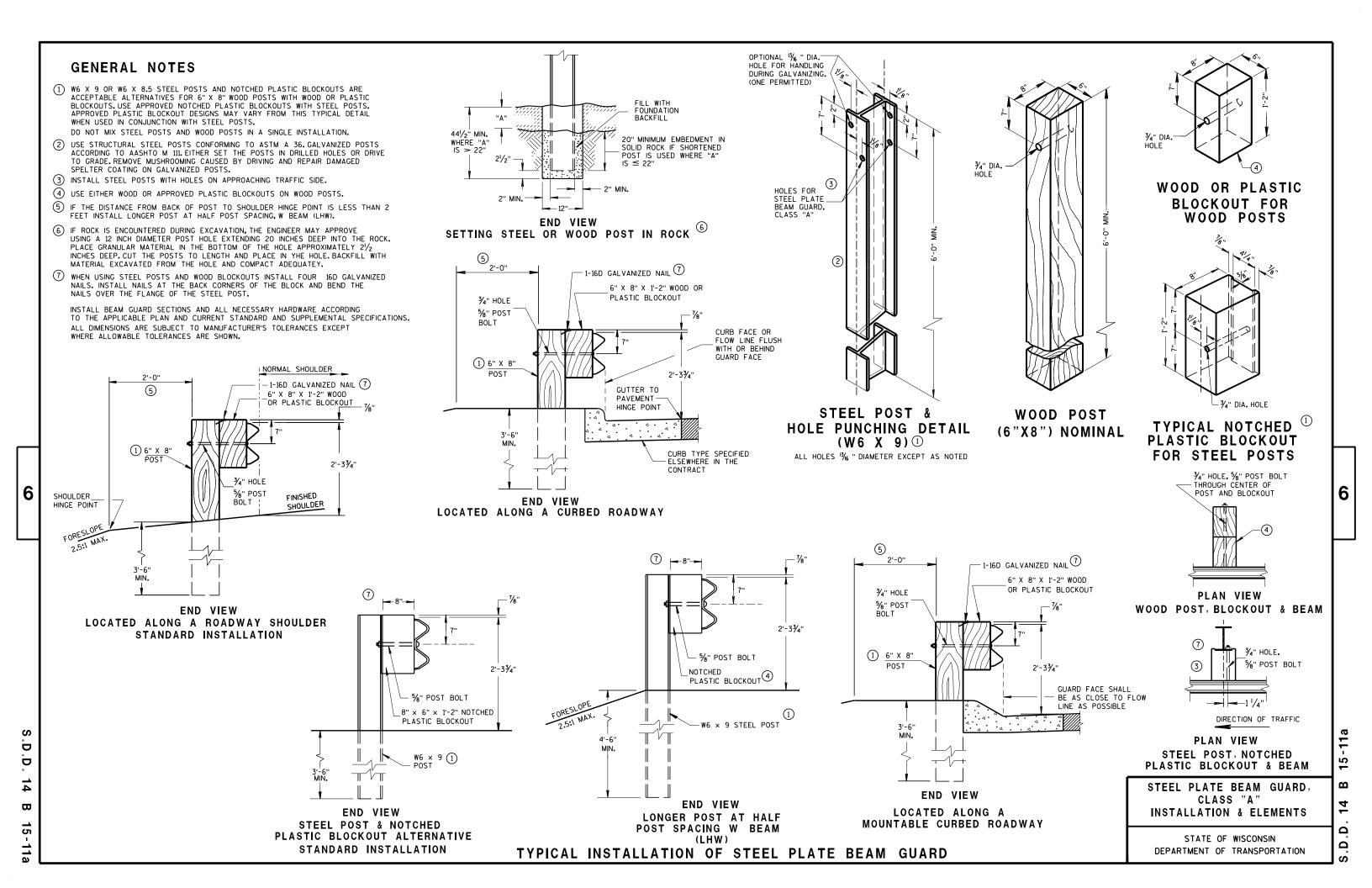




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POST SPACING STANDARD INSTALLATION

12'-6" OR 25'-0"

EFFECTIVE LENGTH OF BEAM

FRONT VIEW

POST SPACING FOR LONGER POST

AT HALF POST SPACING W BEAM (LHW)

3'-1¹/₂" C-C

SPACING

FRONT VIEW

3'-11/2" C-C

SPACING

3'-11/2" C-C

SPACING

FINISHED

SHOULDER

SECTION THRU W BEAM

SYMMETRICAL

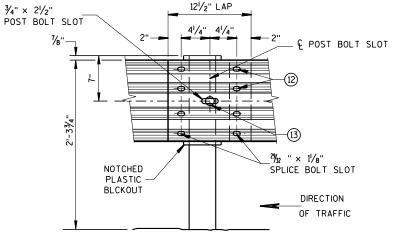
TRAFFIC 121/2" LAP 41/4" 41/4" WOOD OR PLASTIC BLOCKOUT FINISHED SHOULDER DIRECTION OF TRAFFIC

BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

GENERAL NOTES

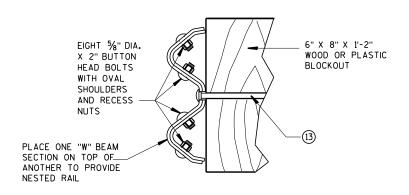
FURNISH GUARDRAIL DEFLECTORS FROM APPROVED PRODUCTS LIST.

- 9 DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINA. START REFLECTORS AT POST *9 AND SPACE EVENLY EVERY 100 FEET (MAX.) TO THE END OF GUARDRAIL RUN, USING A MINIMUM OF 3 REFLECTORS.
- (12) 8 1/8" \$ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
- 3 %" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH %" DIA. F844 FLAT WASHER UNDER NUT.



FRONT VIEW
BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD



NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

GUARDRAIL REFLECTOR 9

3'-1¹/₂" C-C

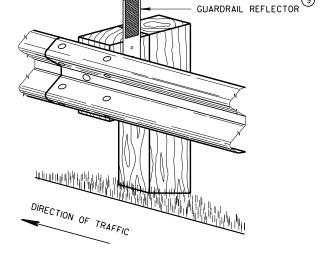
POST

SPACING

DIRECTION OF

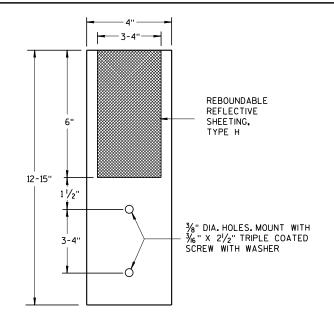
TRAFFIC

* USE DOUBLE SIDED WHITE GUADRAIL REFLECTORS ON ROADWAYS WITH BI-DIRECTIONAL TRAFFIC (NO MEDIAN). USE SINGLE SIDED WHITE (RIGHT SIDE) AND SINGLE SIDED YELLOW (LEFT SIDE) ON ROADWAYS WITH MEDIAN SEPARATION.



4" X 12" GUARDRAIL REFLECTOR DETAIL

AND TYPICAL INSTALLATION *



4"x 12" GUARDRAIL REFLECTOR

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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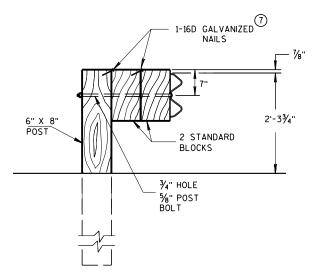
6

15-11b

 $\mathbf{\omega}$

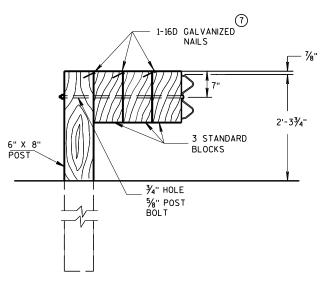
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DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

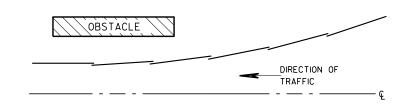


DETAIL FOR TRIPLE BLOCKS

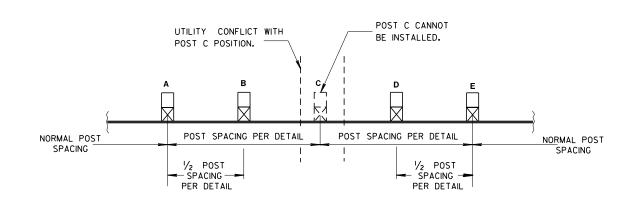
TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.



PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE

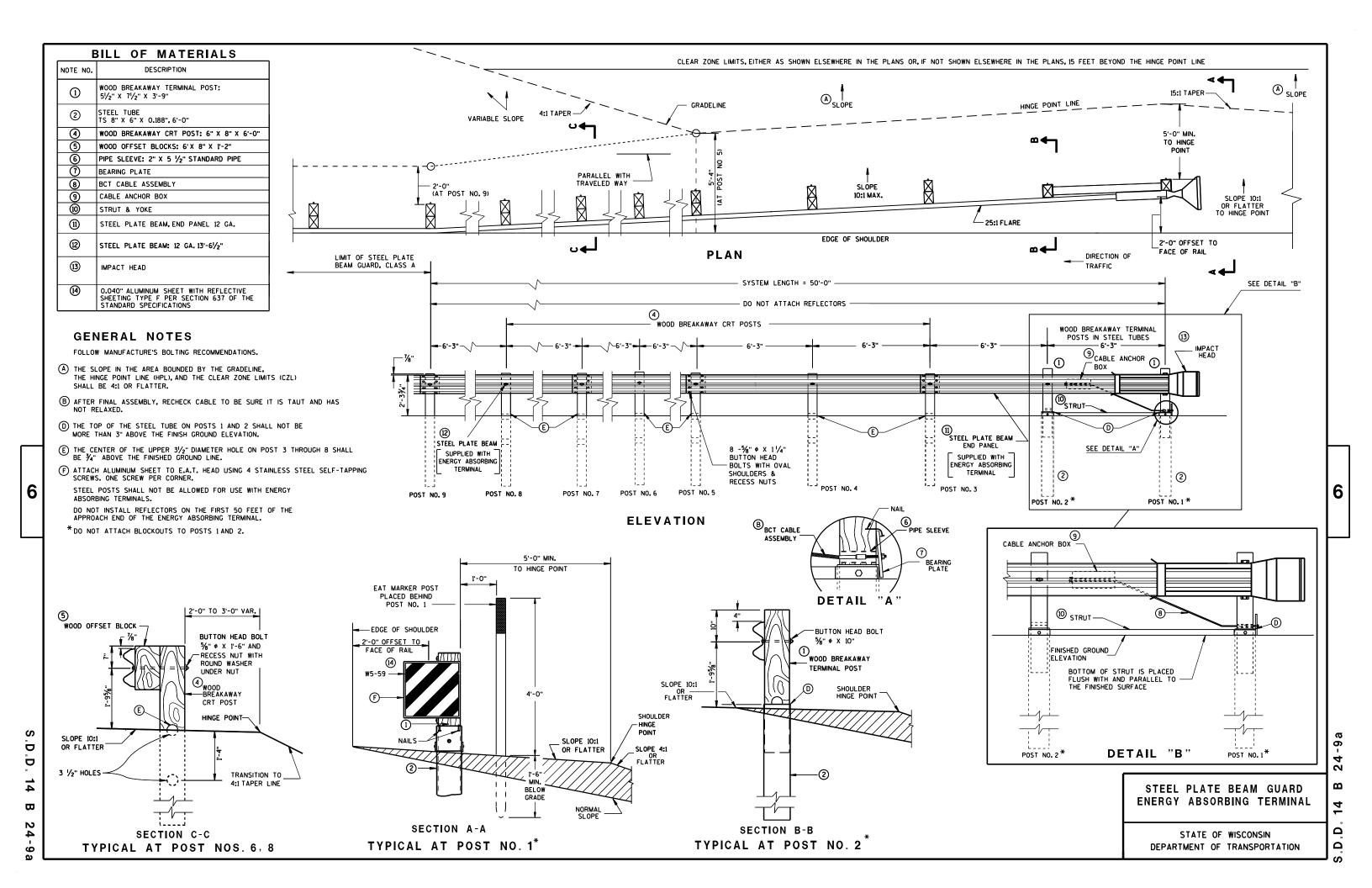
FHWΔ

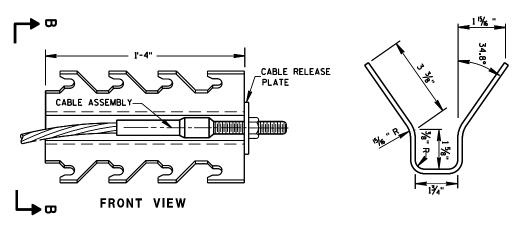
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

6

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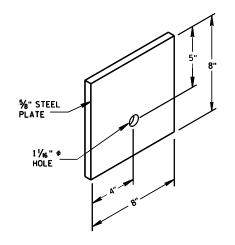
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SECTION B-B

(9) CABLE ANCHOR BOX



TSTEEL BEARING PLATE

STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

6

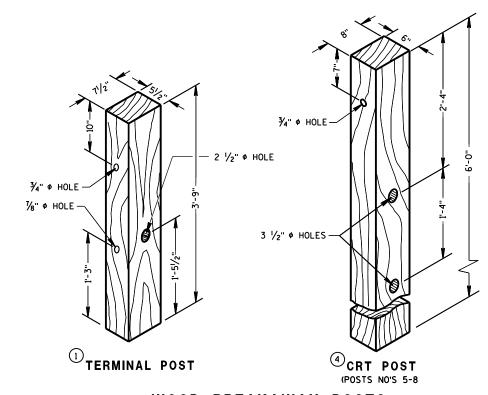
24-9b

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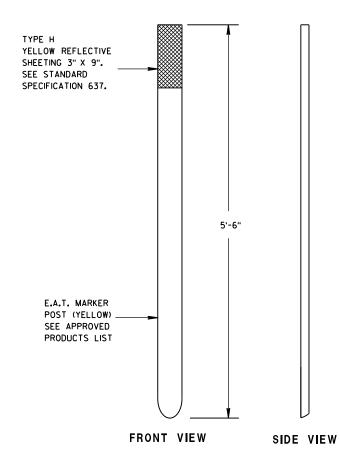
S.D.D.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

(4) REFLECTIVE SHEETING DETAILS



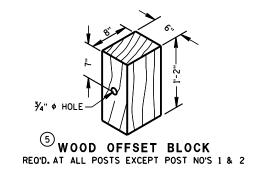
WOOD BREAKAWAY POSTS



E.A.T. MARKER POST

GENERAL NOTES

WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 1/2" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.



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STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

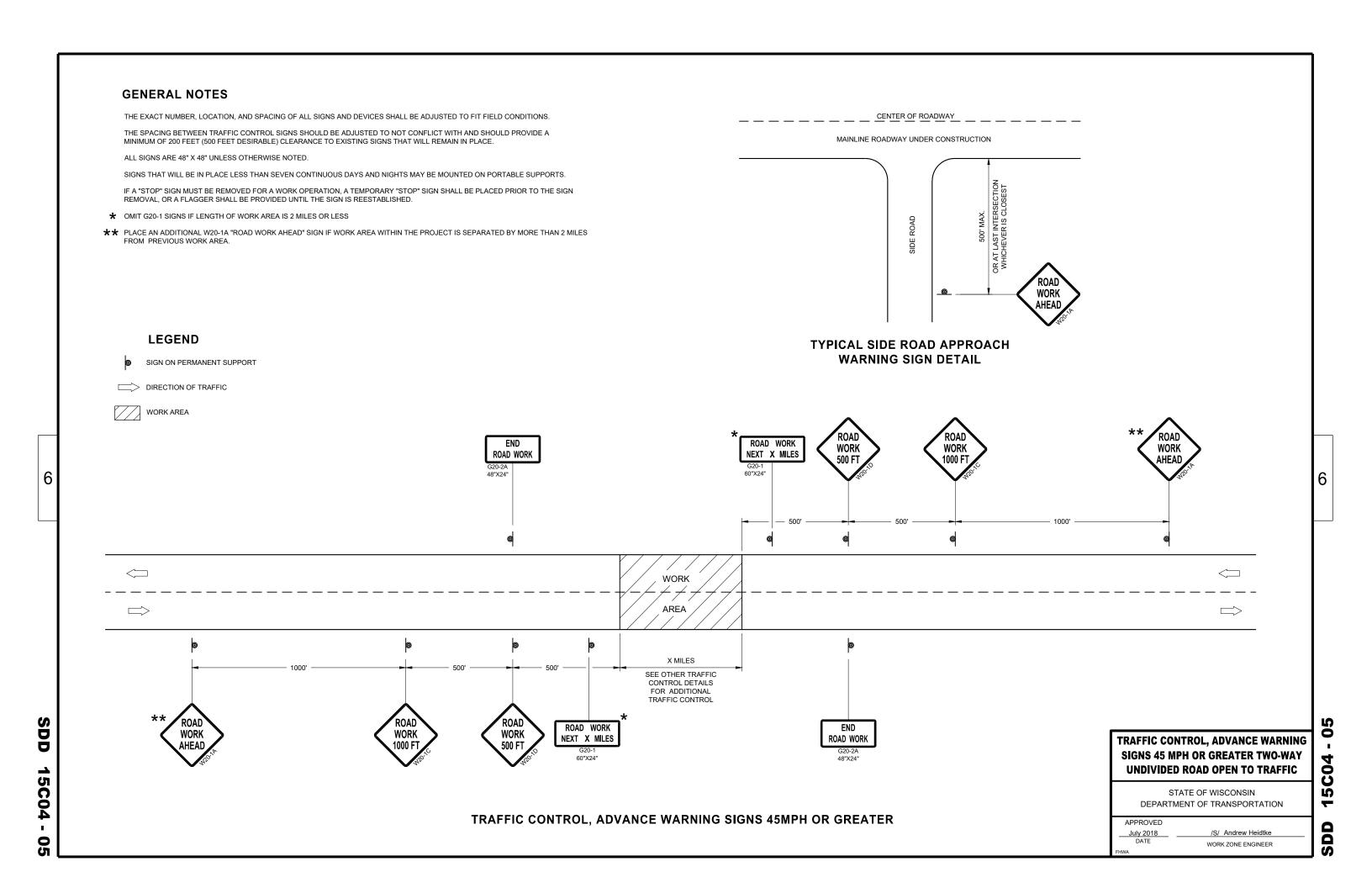
APPROVED June 2017

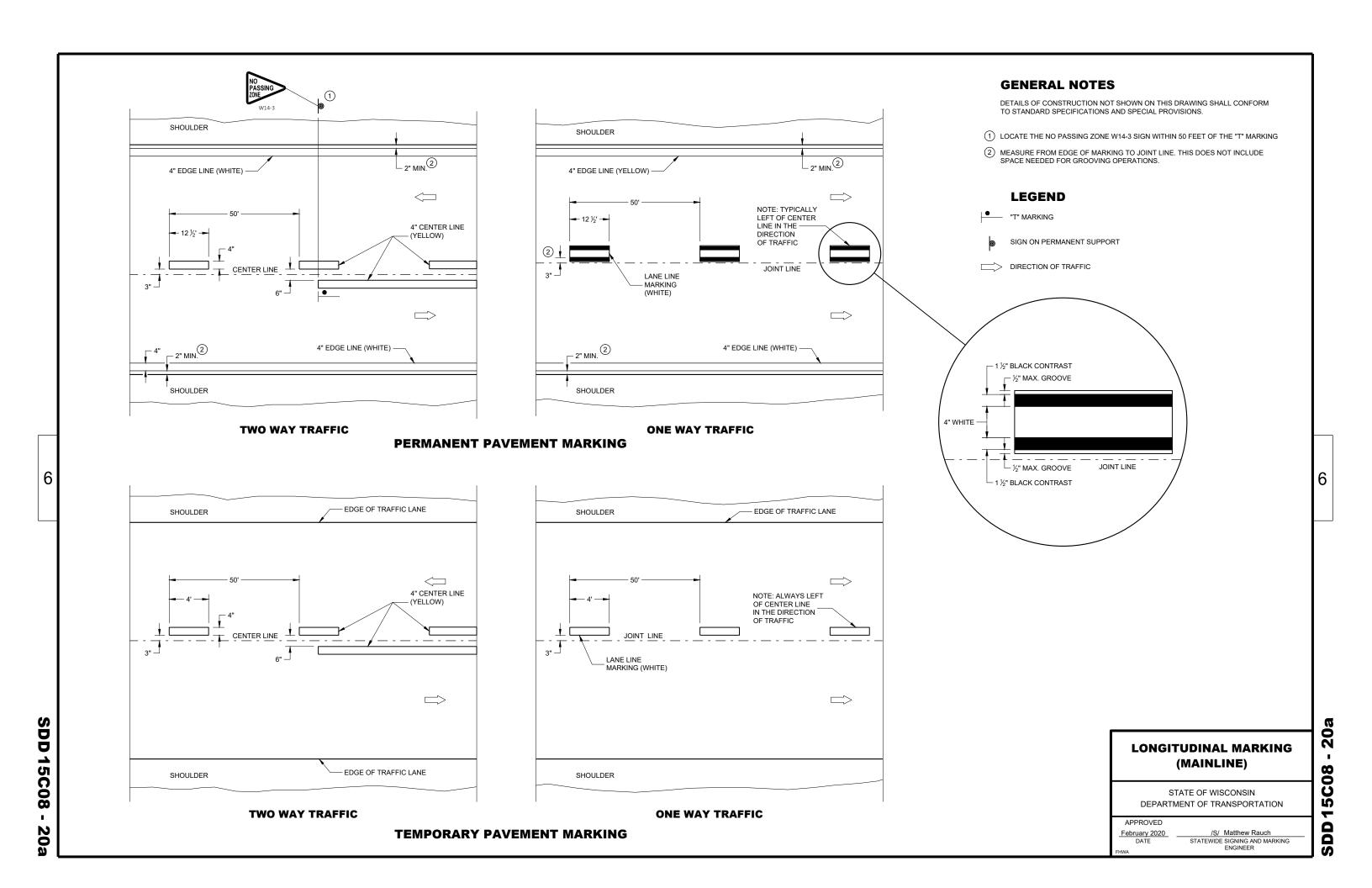
/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

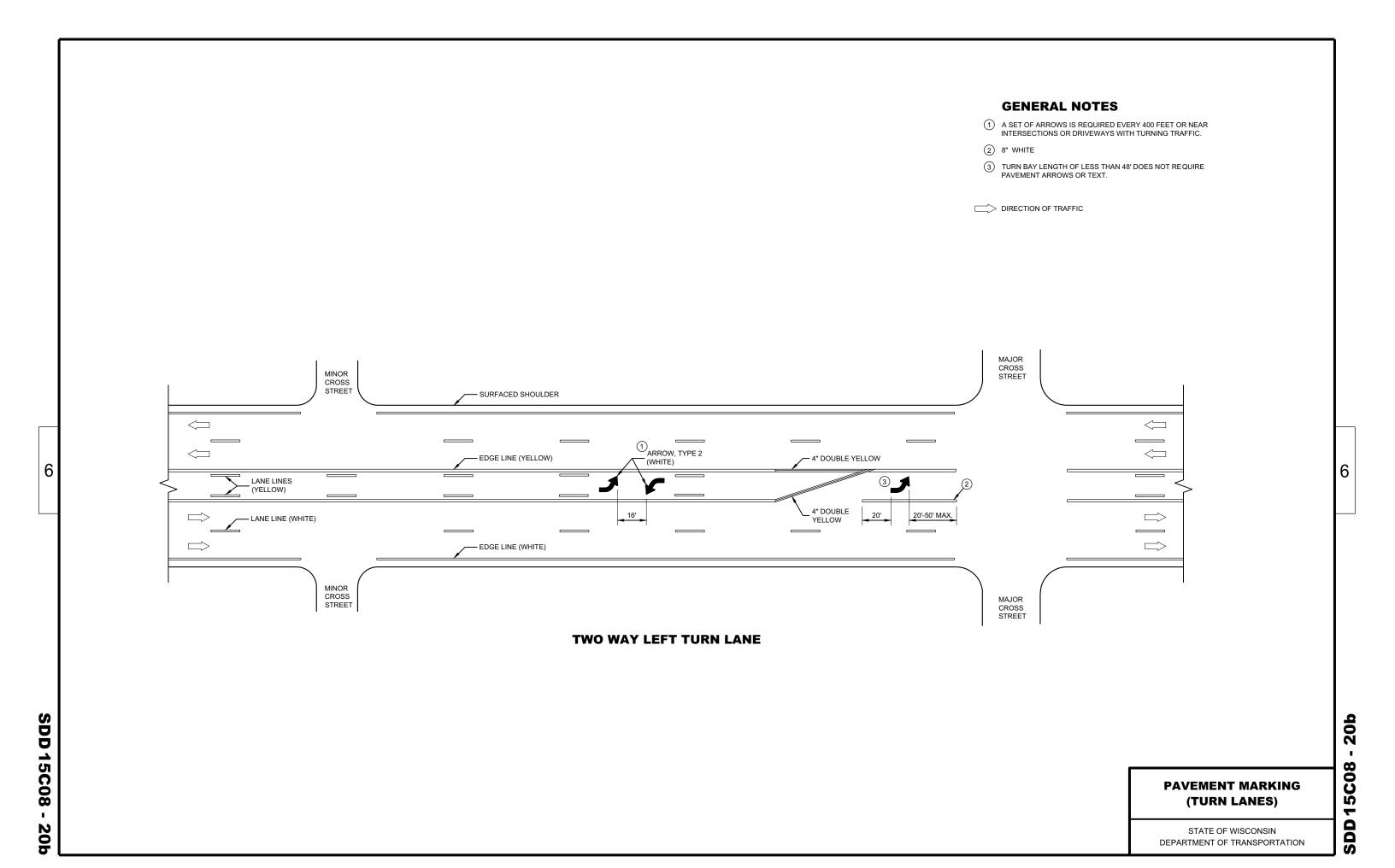
D 24-9c

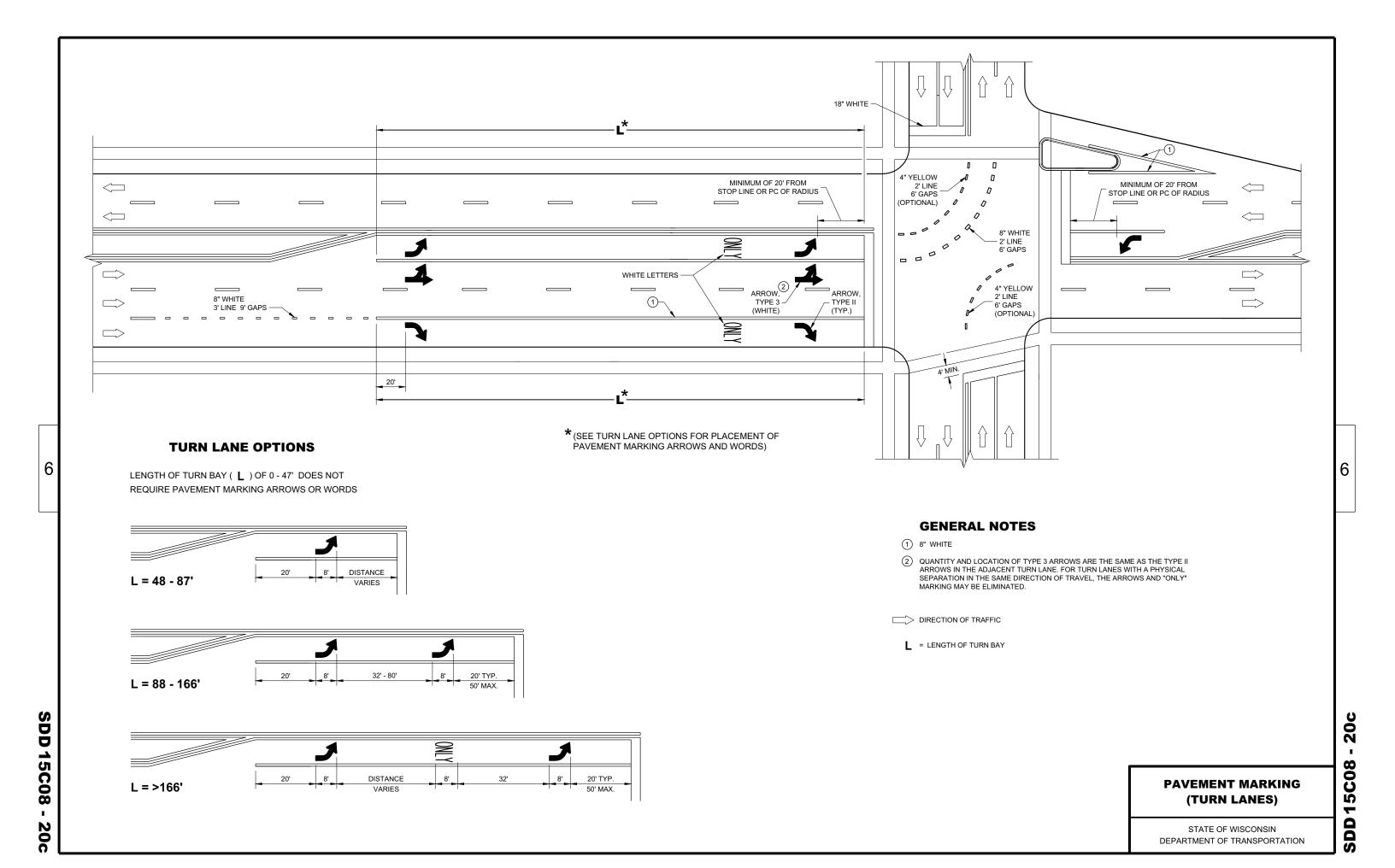
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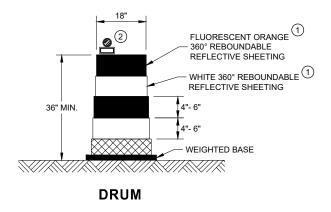


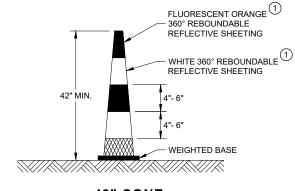


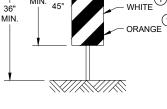


GENERAL NOTES

- (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.





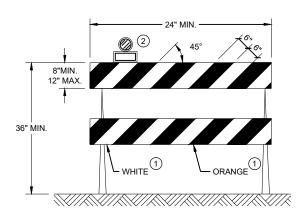


42" CONE

DO NOT USE IN TAPERS ½ SPACING OF DRUMS

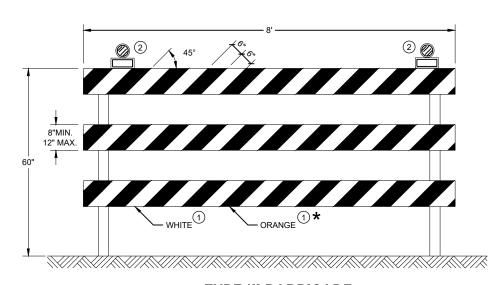
VERTICAL PANEL

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

<u>60</u>

SDD 15

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Andrew Heidtke
WORK ZONE ENGINEER

RUMBLE

STRIPS

ROAD

WORK

GENERAL NOTES FLAGGING LEGEND DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE SIGN ON PORTABLE OR STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON PERMANENT SUPPORT PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING. UNIFORM TRAFFIC CONTROL DEVICES. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING 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. 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 BY THE ENGINEER. FLAGGER, EQUIPPED WITH STOP/SLOW EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S PADDLE FASTENED ON SUPPORT STAFF RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN. ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR 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 SPEED LIMIT SPACING "A" 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" 350' 35-40 MPH 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

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

2

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VARIABLE DISTANCE

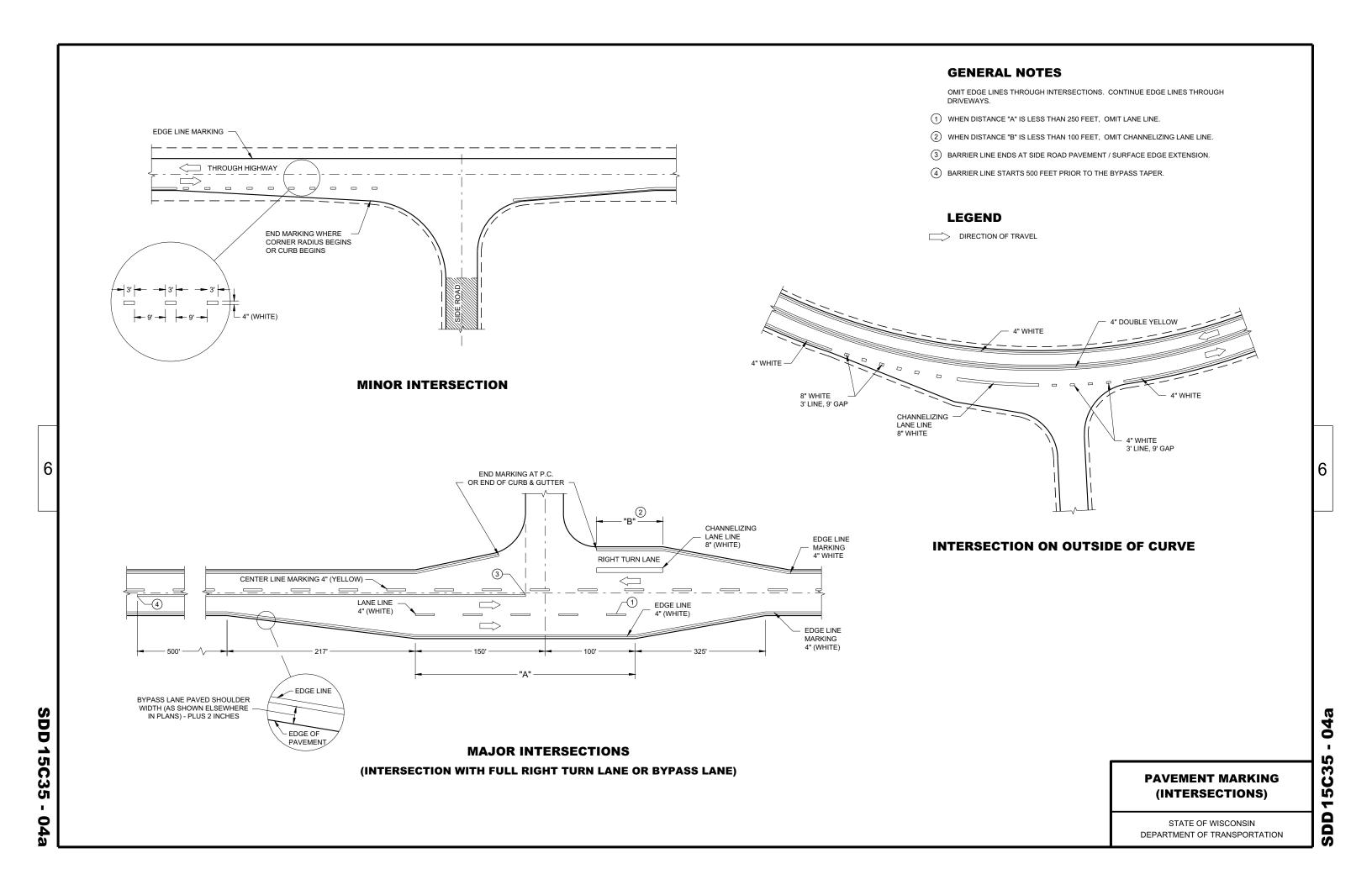
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

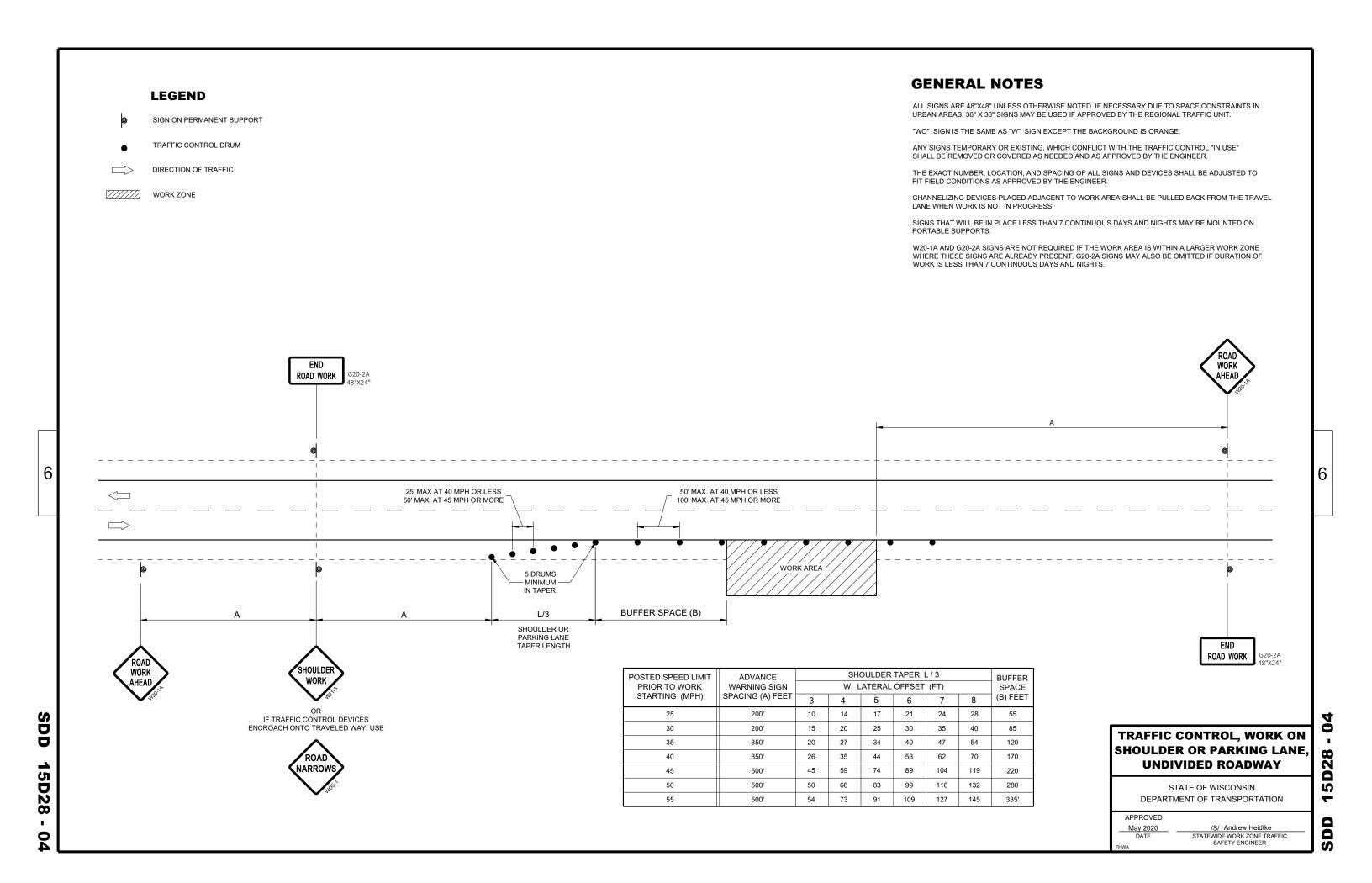
APPROVED May 2019 DATE WORK ZONE ENGINEER

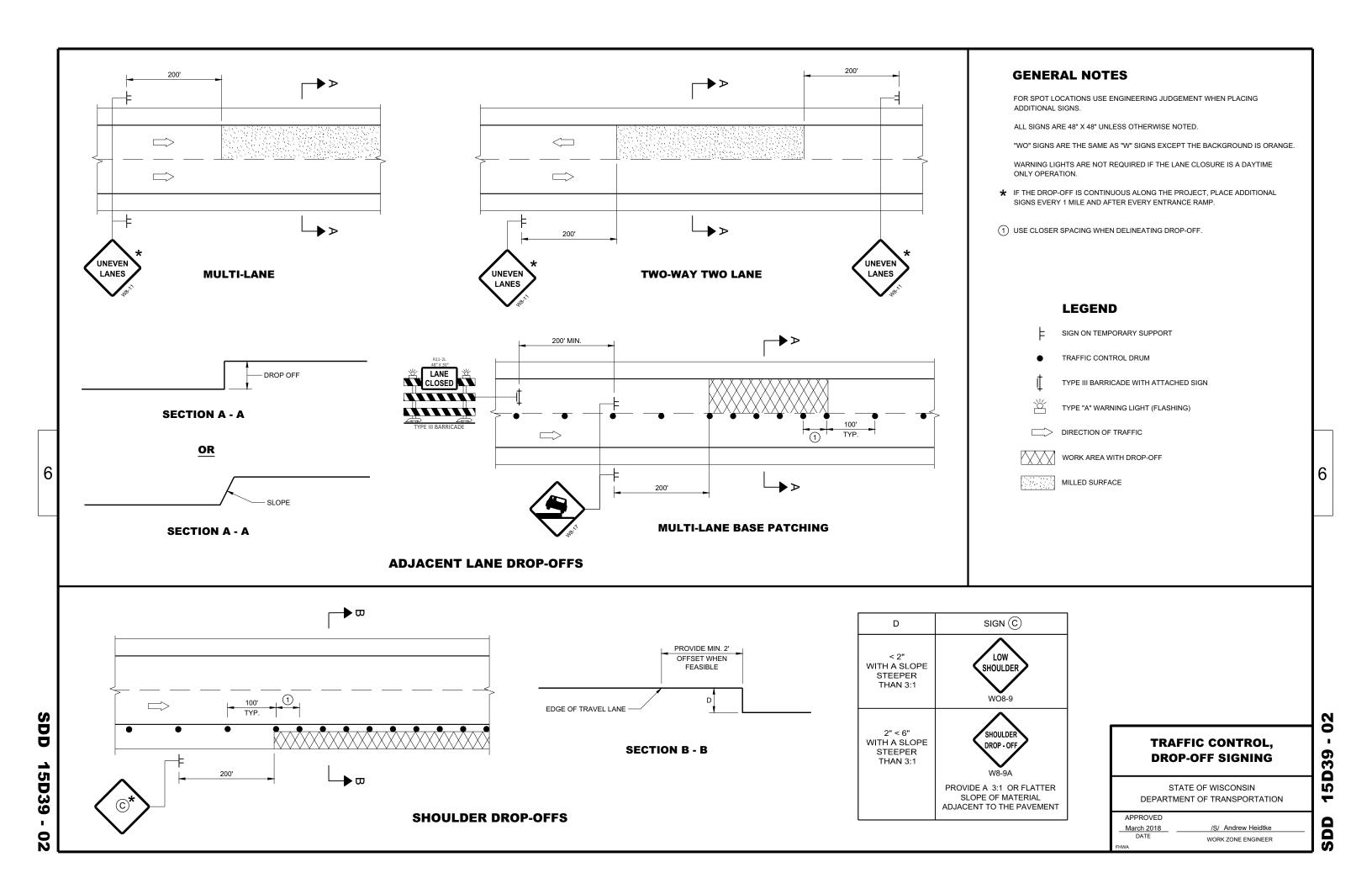
TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

200' - 300' (TYP.)

3DD 15C19 - 06a







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

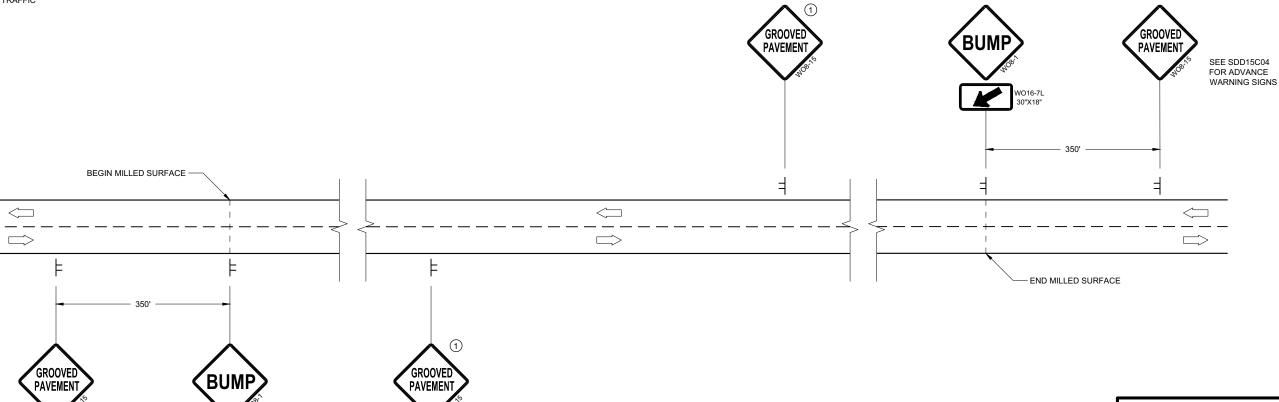
SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

- (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.

DIRECTION OF TRAFFIC

SEE SDD15C04 FOR ADVANCE

WARNING SIGNS



DETAIL FOR SIGNING ON MILLED SURFACES

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

 $\perp \!\!\! \perp$

TYPICAL SIDE ROAD APPROACH SIGN DETAIL

PAVEMENT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION Ò S

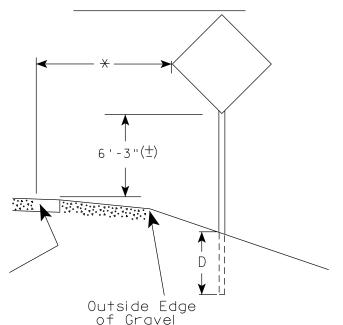
APPROVED February 2020 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER

45

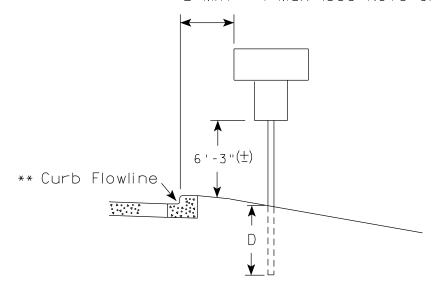
2' Min - 4' Max (See Note 6)

The state of t

White Edgeline Location



2' Min - 4' Max (See Note 6)



White Edgeline Location

geline

Outside Edge
of Gravel

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is

HWY:

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.

2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.

The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (\pm). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (\pm).

- 3. For expressways and freeways, mounting height is 7'- 3" (\pm) or 6'-3" (\pm) depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is 5' 3'' ($\frac{+}{2}$).
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (±) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.

POST EMBEDMENT DEPTH

Area of Sign	
Installation	D
(Sq.Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

SHEET NO:

Ε

PROJECT NO:

FILE NAME: C:\CAEfiles\Projects\tr_stdplate\A43.dgn

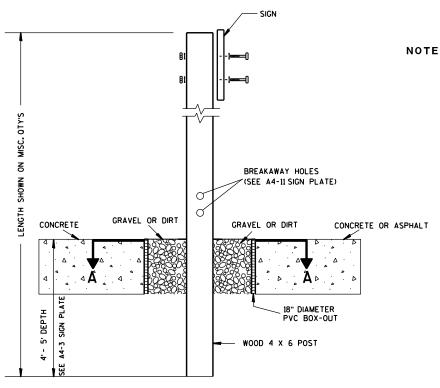
measured from the flow line.

COUNTY: PLOT DATE: 13-MAY 2020 1:04

PLOT BY : mscj9h

PLOT NAME :

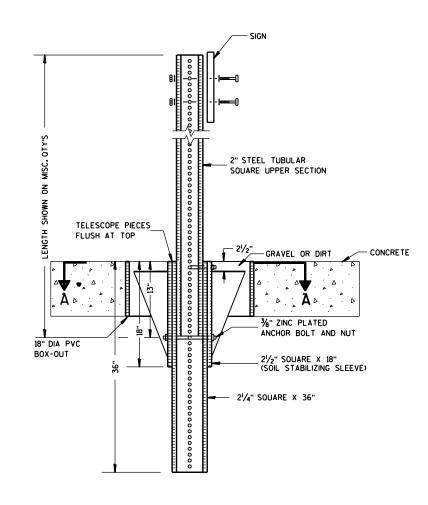
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



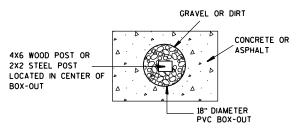
ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT

ELEVATION VIEW

DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE : 13.659812:1.000000

APPROVED

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).
- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- $\star\star\star$ See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

D
(Min)
4'
5'

OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

TYPICAL INSTALLATION

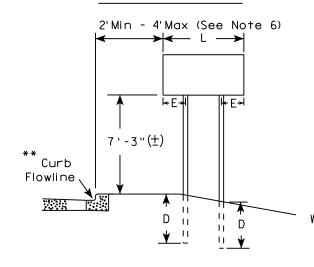
For State Traffic Engineer

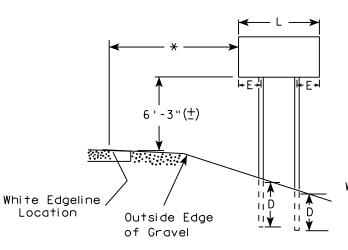
DATE 8/21/17 PLATE NO. A4-4.15

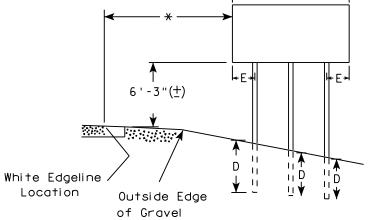
SHEET NO:

URBAN AREA

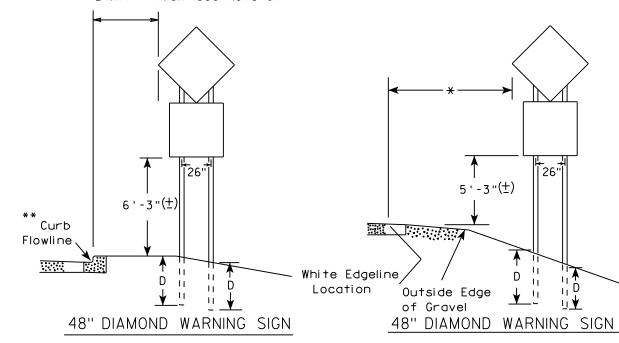
RURAL AREA (See Note 3)







2'Min - 4'Max (See Note 6)



	SIGN SHAPE OTHER THAN DIAMONE (TWO POSTS REQUIRED)					
* * *	L	E				
	Greater than 48" Less than 60"	12"				
	60" to 108"	L/5				

HWY:

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 108" to 144"	12''

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

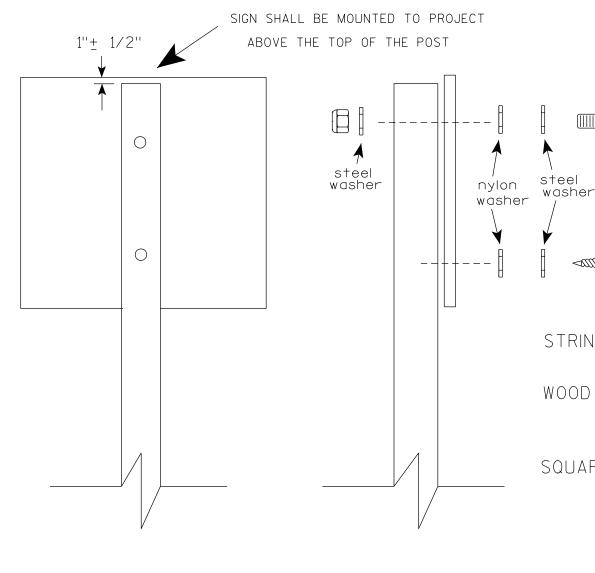
PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: 108.188297:1.000000

WISDOT/CADDS SHEET 42



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either:

- a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3
- b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS $(4'' \times 6'')$

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN) 3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 3/32 " (6605-9-6) BULB-TITE. TRI-FOLD. ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL

1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON

Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq.ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

DATE 4/1/2020

PLATE NO. <u>A4-8.9</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN

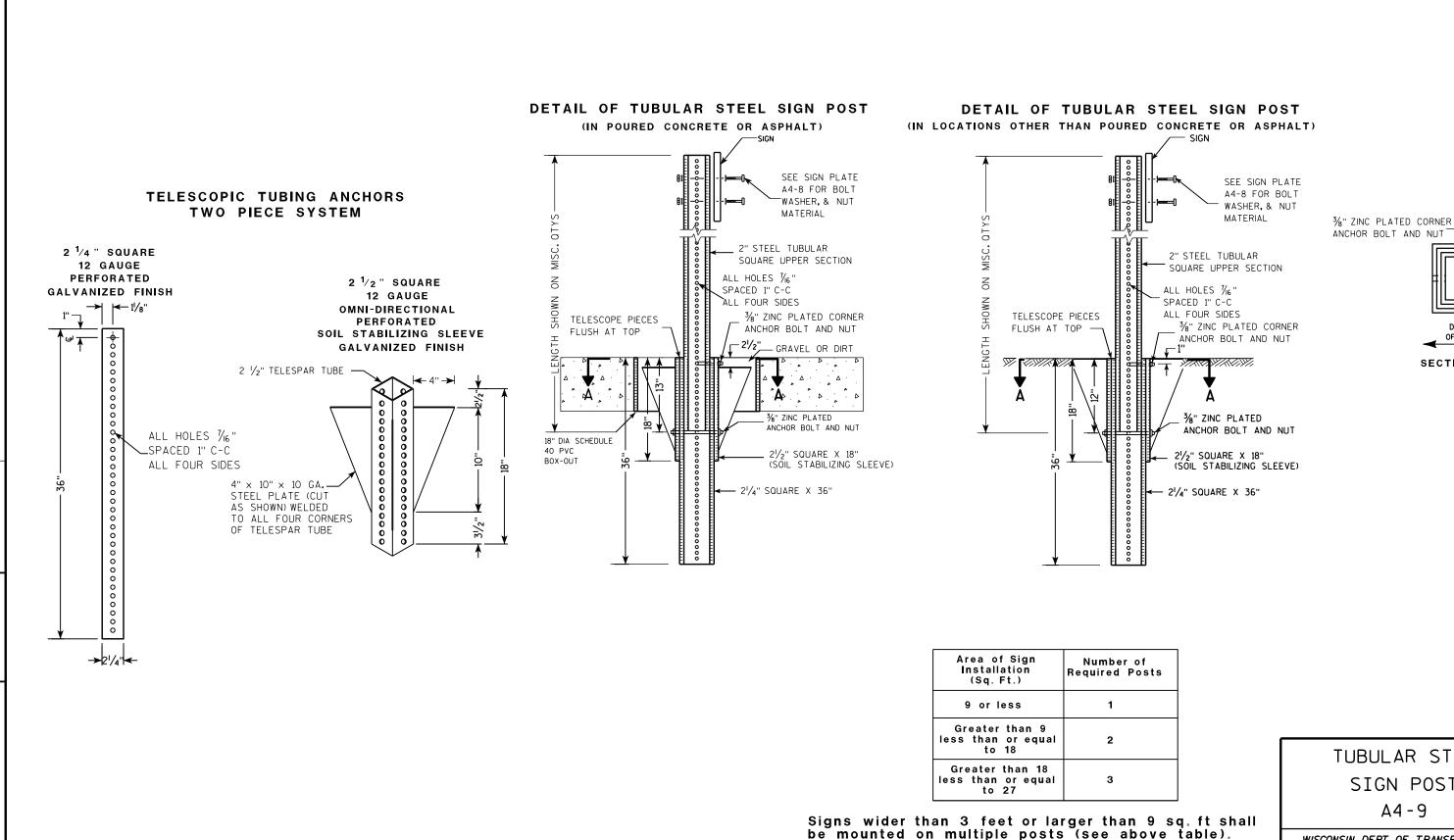
PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε



TUBULAR STEEL SIGN POST A4-9

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 2/05/15 PLATE NO. <u>A4-9.9</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN

HWY:

PROJECT NO:

PLOT DATE: 05-FEB-2015 17:09

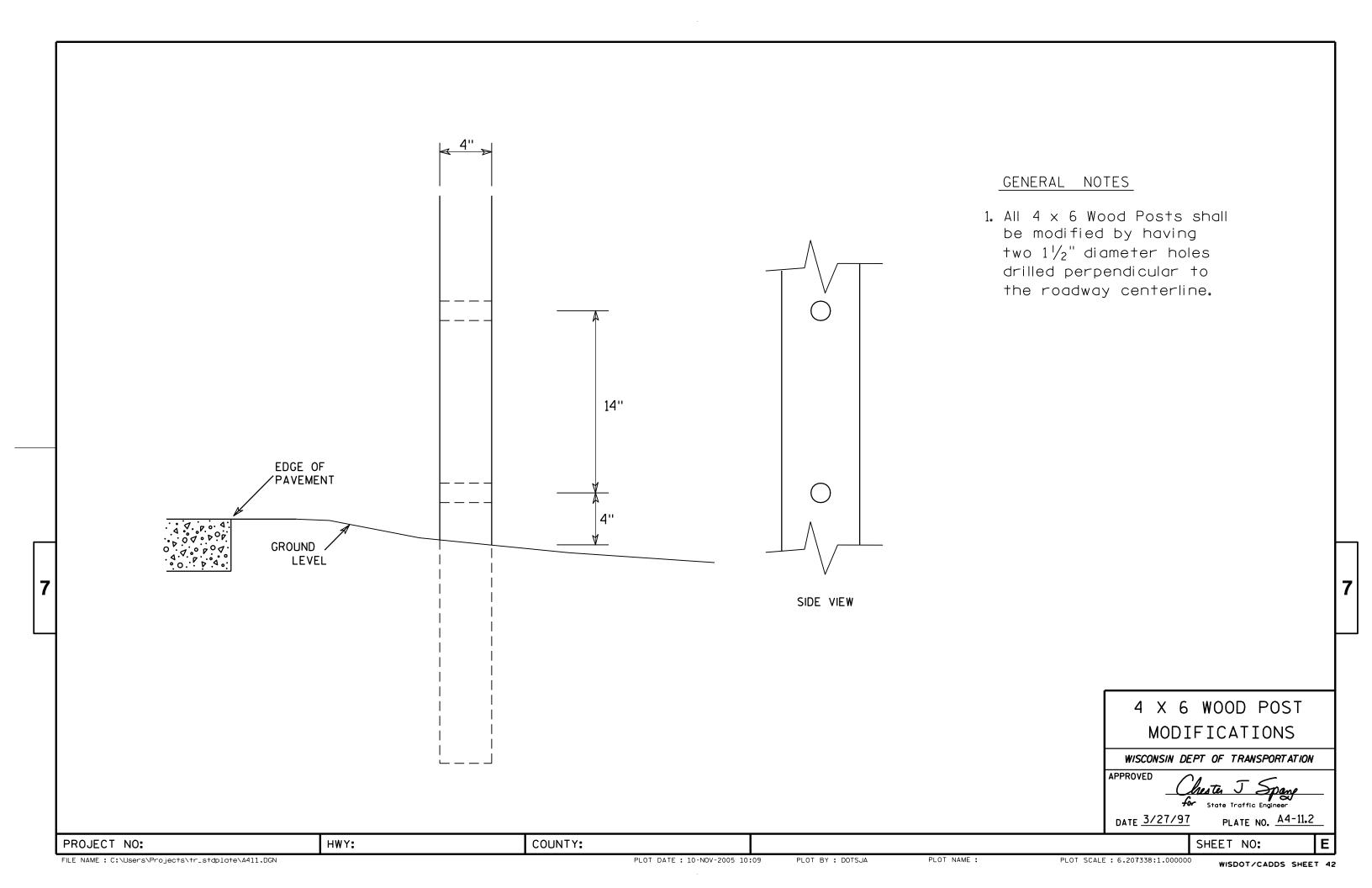
COUNTY:

PLOT NAME :

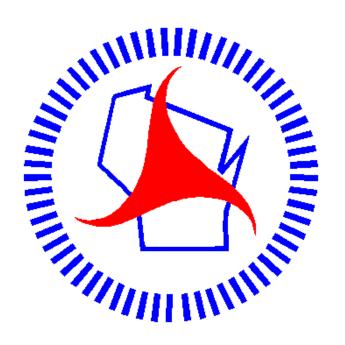
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

SECTION A-A



Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov