

GENERAL NOTES

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

THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION ACTIVITIES WITH DIGGERS HOTLINE AND OR A DIRECT CONTACT WITH UTILITIES IN THE AREA PRIOR TO THE START OF WORK. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

ORDER OF "SECTION 2" SHEETS

SHEET TITLE
GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
EROSION CONTROL PLAN
TRAFFIC CONTROL PLAN



<u>UTILITIES</u> <u>OTHER CONTACTS</u>

COMMUNICATIONS BRIGHTSPEED DNR LIAISON JON SIMONSEN
425 ELLINGSON AVE DEPARTMENT OF NATURAL RESOURCES

425 ELLINGSON AVE HAWKINS, WI 54530 ATTN: BEN BAKER

TELEPHONE: (715) 567-0725 EMAIL: ben.baker@brightspeed.com

GAS/PETROLEUM WE ENERGIES

500 S. 116TH ST WEST ALLIS, WI 53214

ATTN: WE ENERGIES UTILITY COORDINATOR TELEPHONE: (414) 221-2738

EMAIL: WE-UTILITY-RELOCATIONS@WE-ENERGIES.COM

ELECTRIC WISCONSIN PUBLIC SERVICE CORPORATION

PO BOX 1166
WAUSAU, WI 54401-1166
ATTN: KEVIN TERMAAT
TELEPHONE: (715) 848-7353

EMAIL: Kevin.Termaat@wISCONSINPUBLICSERVICE.COM

ELECTRIC XCEL ENERGY

1751 LIBERTY ST IRONWOOD, MI 49938 ATTN: BRENNAN HENRY TELEPHONE: (715) 614-2410

EMAIL: brennan.j.henry@XCELENERGY.COM

PROJECT NO: 1170-20-60 HWY: USH 51 COUNTY: VILAS GENERAL NOTES SHEET: E 2

 2

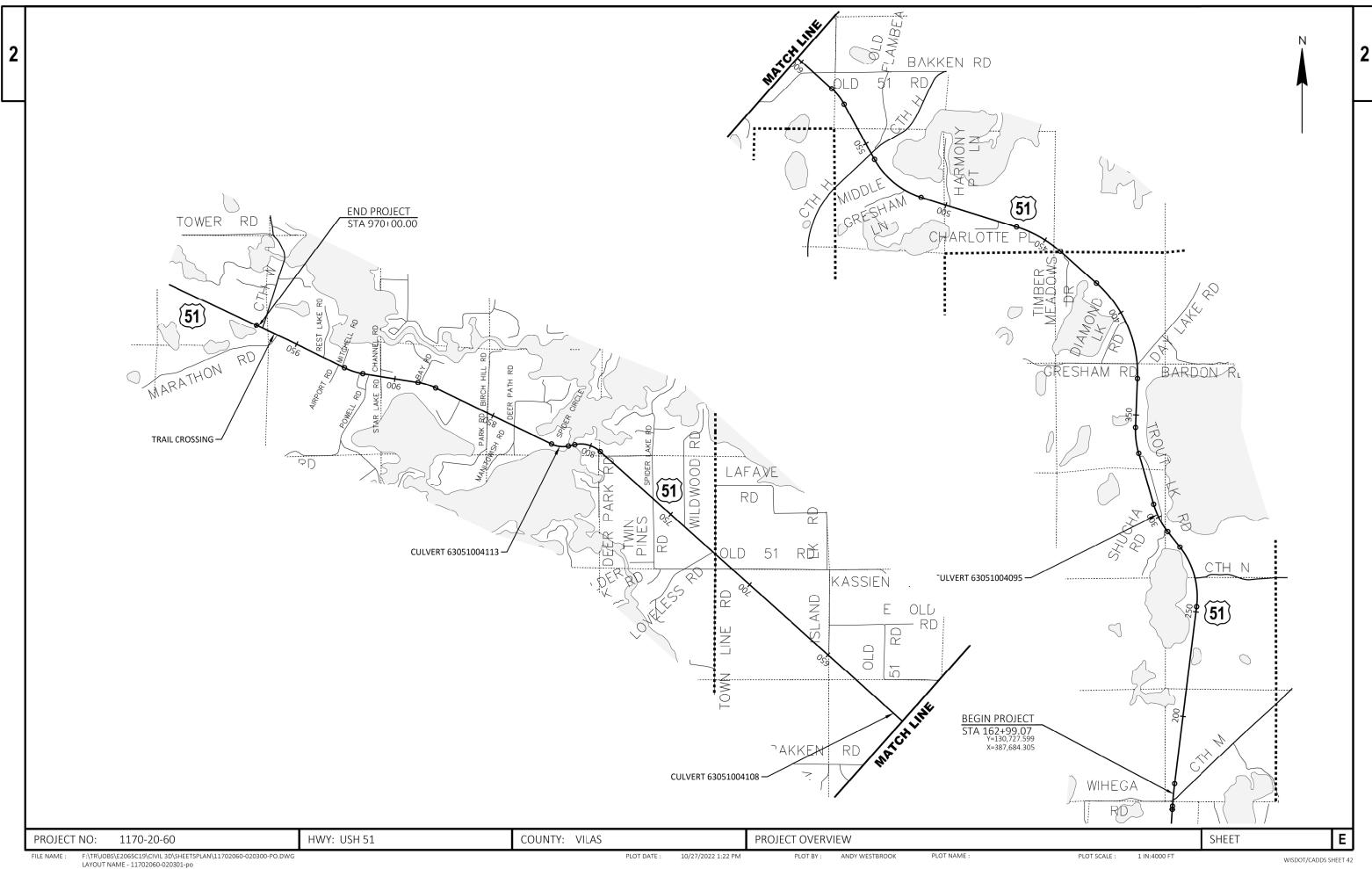
NORTHERN REGION HEADQUARTERS

E-MAIL: JONATHAN.SIMONSEN@WISCONSIN.GOV

107 SUTLIFF AVENUE

RHINELANDER, WI 54501

TELEPHONE: 715-365-8916



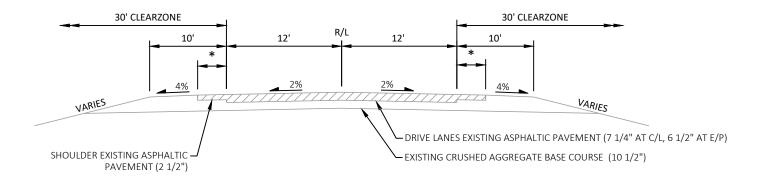
PLOT DATE :

PLOT BY: ANDY WESTBROOK PLOT NAME :

PLOT SCALE :



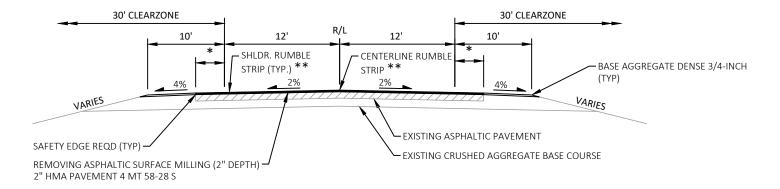




STA 162+99 - STA 711+00: 3.0' STA 711+00 - STA 970+00: 5.0'

TYPICAL EXISTING SECTION USH 51

STA 162+99 TO STA 970+00



STA 162+99 - STA 711+00: 3.0' STA 711+00 - STA 970+00: 5.0'

** SEE MISCELLANEOUS QUANTITIES AND STANDARD DETAIL DRAWING FOR SPECIFIC LOCATIONS

TYPICAL FINISHED SECTION USH 51

STA 162+99 TO STA 970+00

COUNTY: VILAS Ε PROJECT NO: 1170-20-60 HWY: USH 51 TYPICAL SECTION: SHEET

F:\TR\JOBS\E2065C19\CIVIL 3D\SHEETSPLAN\11702060-020301-TS.DWG LAYOUT NAME - 11702060-020301-ts

PLOT DATE : 6/6/2022 8:04 AM

PLOT BY: JOE DRISCOLL

PLOT NAME :

PLOT SCALE : 1 IN:10 FT

TRENCH TRENCH WIDTH 50' WIDTH 50' 50' 50' 7" ASPHALTIC SURFACE (SEE NOTES) 7" ASPHALTIC SURFACE (SEE NOTES) 10½ " BASE AGGREGATE - 10½ " BASE AGGREGATE DENSE 1 1/4-INCH DENSE 1 1/4-INCH SAWING REQD -SAWING REQD -- SAWING REQD - SAWING REQD TOP OF TOP OF SUBGRADE SUBGRADE KEY PROPOSED SURFACE CULVERT PROPOSED BASE TRENCH BACKFILL TRANSITION CUT DEPTH (T) = THE LESSER OF DEPTH TO CENTER OF PIPE OR 5 FT. DO NOT EXTEND TRANSITION CUT BELOW HORIZONTAL CENTER OF PIPE. TRENCH OR FOUNDATION BACKFILL

FOUNDATION BACKFILL

TRANSITION CUT

- 1. TRANSITION CUT IS PAID AS EXCAVATION COMMON.
- 2. TRANSITION CUT WIDTH IS FROM SUBGRADE SHOULDER POINT TO SUBGRADE SHOULDER POINT.
- 3. BACKFILL THE EXCAVATION WITH FOUNDATION AND TRENCH BACKFILL AS SPECIFIED IN STANDARD SPEC 520.
- 4. IF EXCAVATED MATERIAL IS DEEMED ACCEPTABLE BY THE ENGINEER, USE AS TRENCH BACKFILL.
- 5. IF EXCAVATED MATERIAL IS UNACCEPTABLE, USE BACKFILL GRANULAR GRADE 2 AS TRENCH BACKFILL.
- 6. PERFORM CULVERT PIPE INSTALLATION BEFORE MILLING AND OVERLAY. PLACE BASE AGGREGATE DENSE AND ASPHALTIC SURFACE AFTER CULVERT PIPE INSTALLATION AND BEFORE MILLING. PAVE TO ADJOINING EXISTING ASPHALT SURFACE ELEVATION.

DEPTH D < 6 FT

7. ASPHALTIC SURFACE SHALL CONSIST OF THE FOLLOWING DEPTHS:

UPPER LAYER: 3-INCH LOWER LAYER: 4-INCH

CULVERT PIPE TRANSITION

DEPTH D ≥ 6 FT

ROUTE	STA (CL)	DEPTH D (FT)	PROPOSED PIPE DIA (IN)	CULVERT #
USH 51	301+35	4.0'	30"	63051004095
USH 51	608+32	1.4'	24"X38"	63051004108
USH 51	820+50	9.5	36"	63051004113

CULVERT PIPE TRANSITION CUT DETAIL

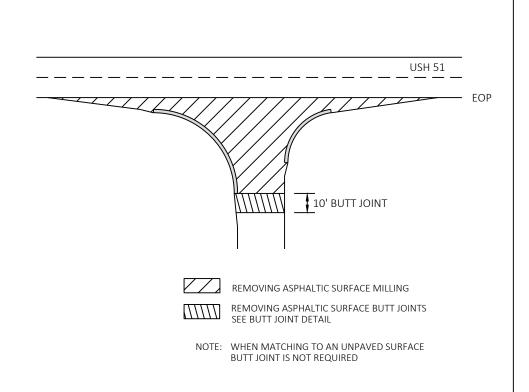
PROJECT NO: 1170-20-60 HWY: USH 51 COUNTY: VILAS **CONSTRUCTION DETAILS** SHEET F:\TR\JOBS\E2065C19\CIVIL 3D\SHEETSPLAN\11702060-021001-CD.DWG PLOT DATE : 8/24/2022 2:14 PM PLOT BY: JOE DRISCOLL

LAYOUT NAME - 11702060-021001-cd

PLOT NAME : PLOT SCALE :

USH 51 SUPERELEVATION AT SPIDER LAKE BRIDGE

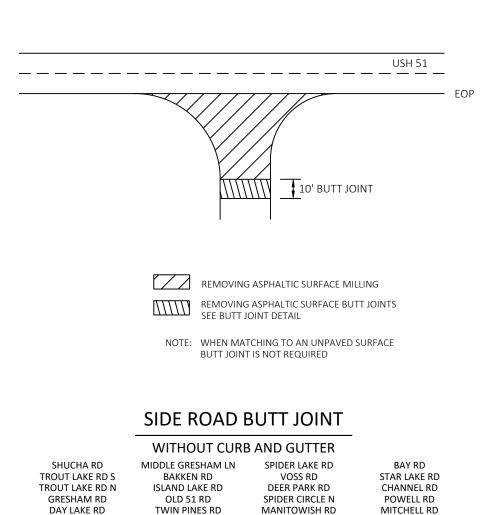
STATION	DESCRIPTION	LEFT LANE SLOPE	RIGHT LANE SLOPE
806+92	END FULL SUPER	-6.00%	6.00%
807+98	REVERSE CROWN	-2.00%	2.00%
808+53	LEVEL CROWN	-2.00%	0.00%
809+05	BEGIN NORMAL CROWN	-2.00%	-2.00%
809+88	END NORMAL CROWN	-2.00%	-2.00%
810+39	LEVEL CROWN	0.00%	-2.00%
810+91	REVERSE CROWN	2.00%	-2.00%
811+94	BEGIN FULL SUPER	6.00%	-6.00%

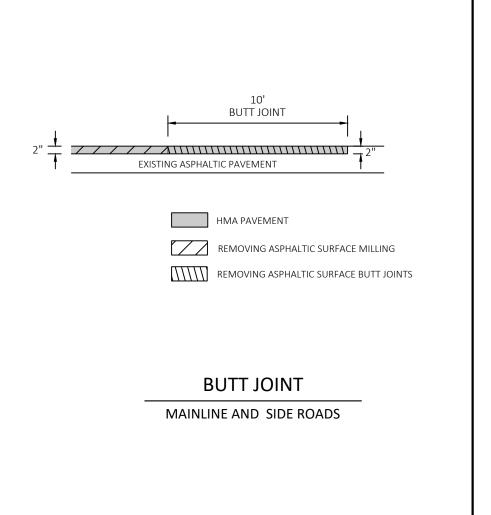




WITH CURB AND GUTTER

CTH N CTH H CTH W





F:\TR\JOBS\E2065C19\CIVIL 3D\SHEETSPLAN\11702060-021001-CD.DWG

HWY: USH 51

COUNTY: VILAS

DIAMOND LAKE RD

TIMBER MEADOWS DR

CHARLOTTE PLACE

HARMONY POINT LN

CONSTRUCTION DETAILS

DEER PATH RD

PARK RD

BIRCH HILL RD

NAZDAR DR

PLOT SCALE :

SHEET

LAYOUT NAME - 11702060-021002-cd

1170-20-60

PROJECT NO:

PLOT DATE: 1/10/2023 9:53 AM

TOWN LINE RD

LOVELESS RD

WILDWOOD RD

TWIN PINES RD

PLOT BY: JOE DRISCOLL

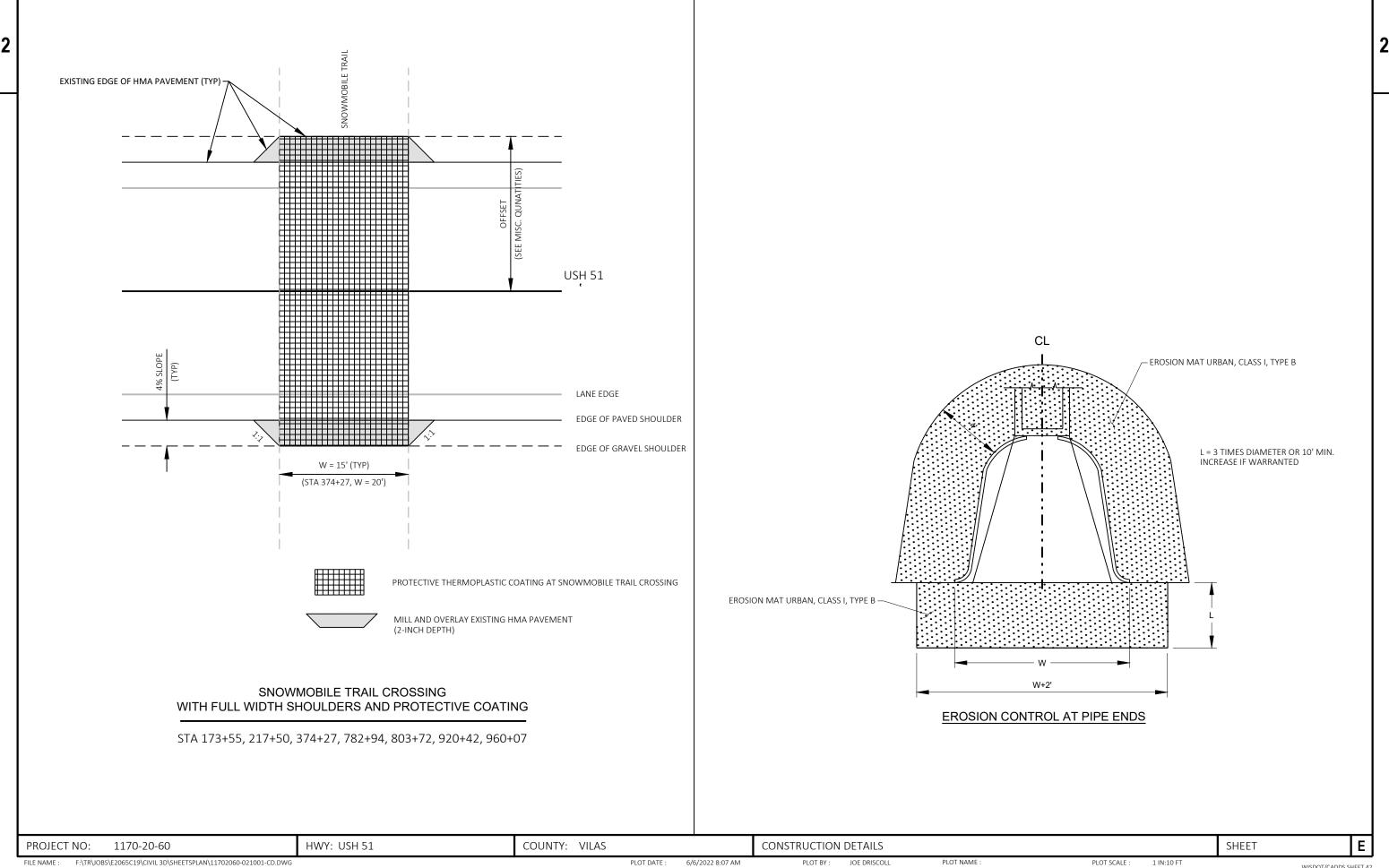
AIRPORT RD

REST LAKE RD

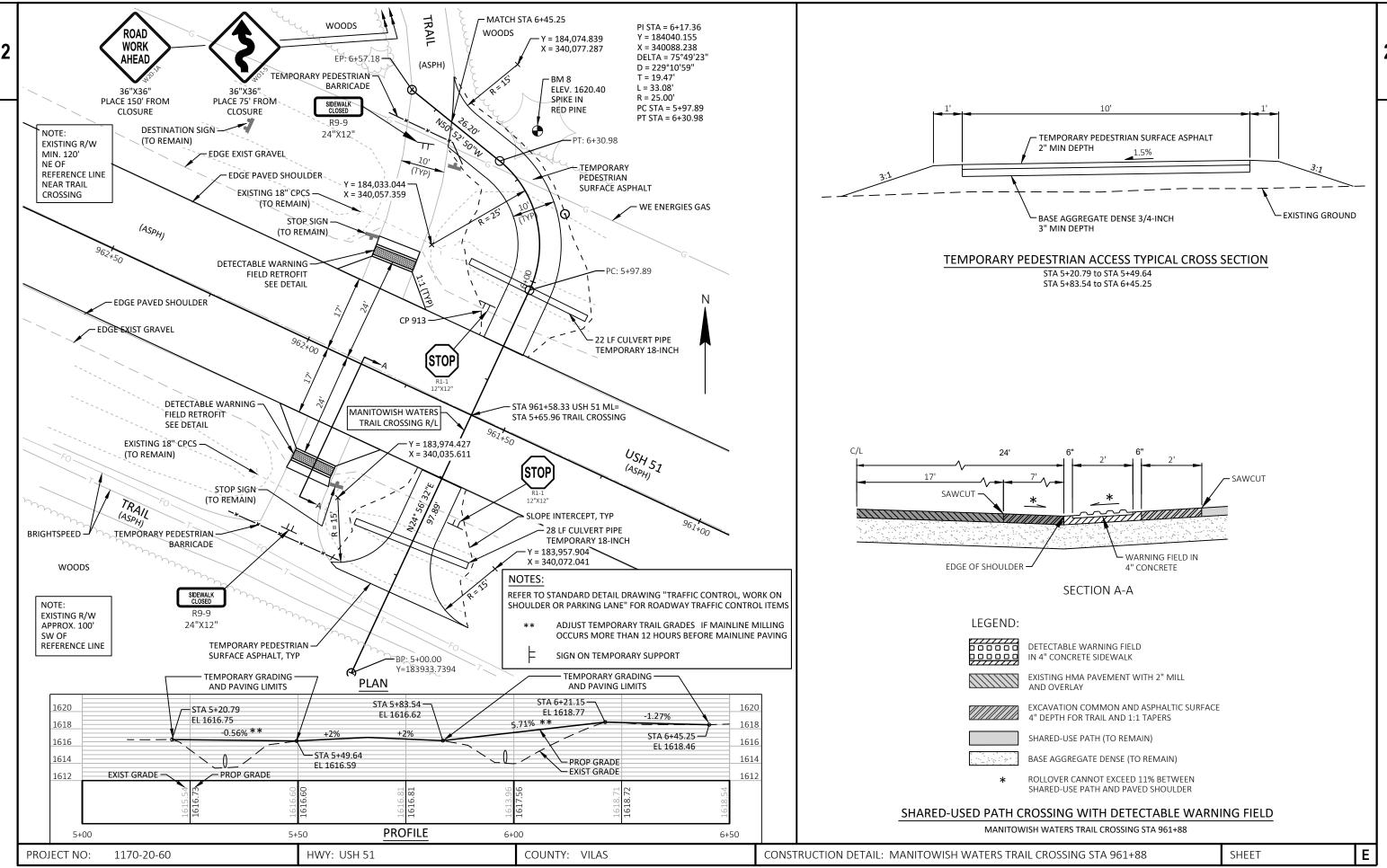
MARATHON RD

PLOT NAME :

1 IN:10 FT

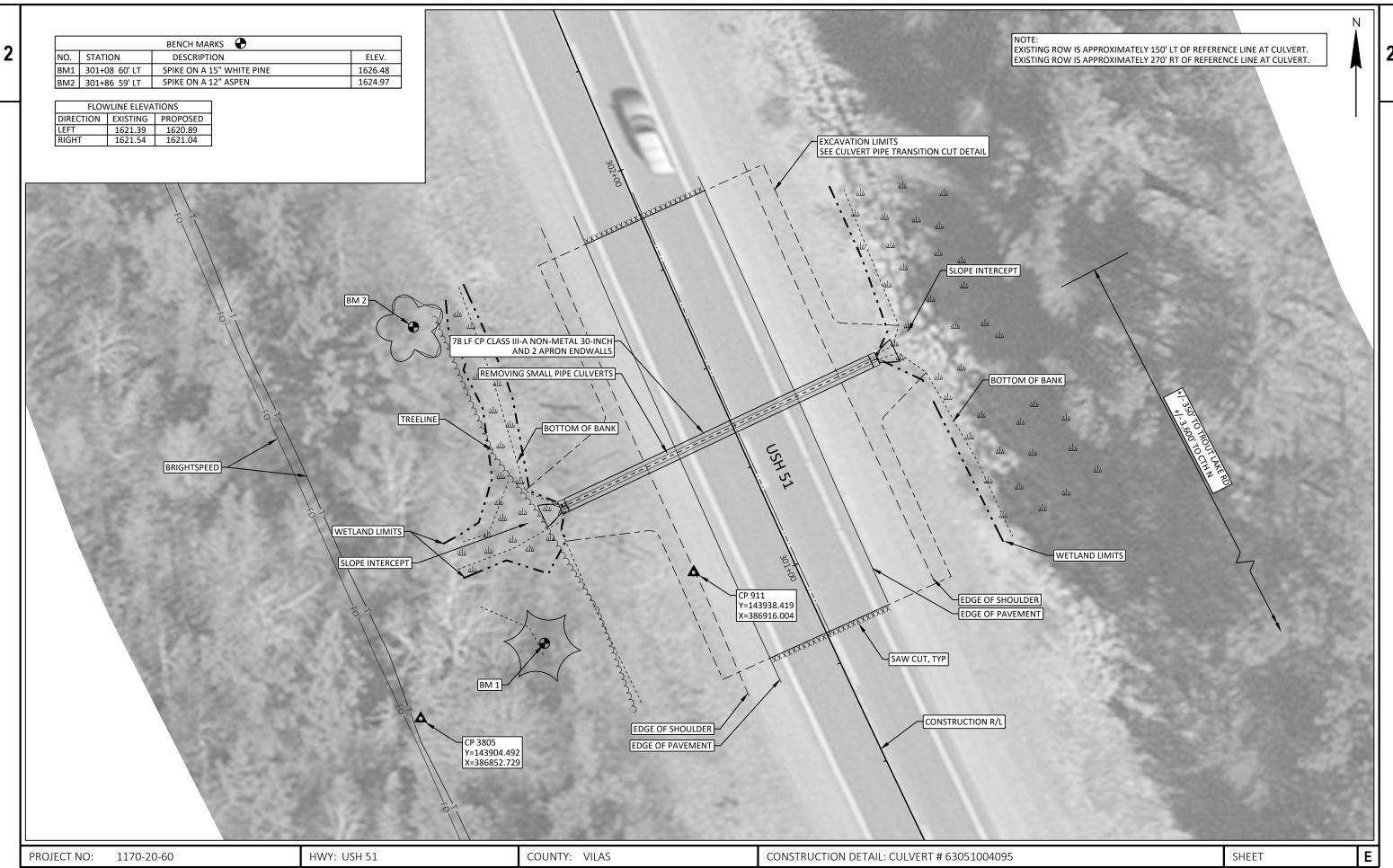


WISDOT/CADDS SHEET 42 LAYOUT NAME - 11702060-021003-cd

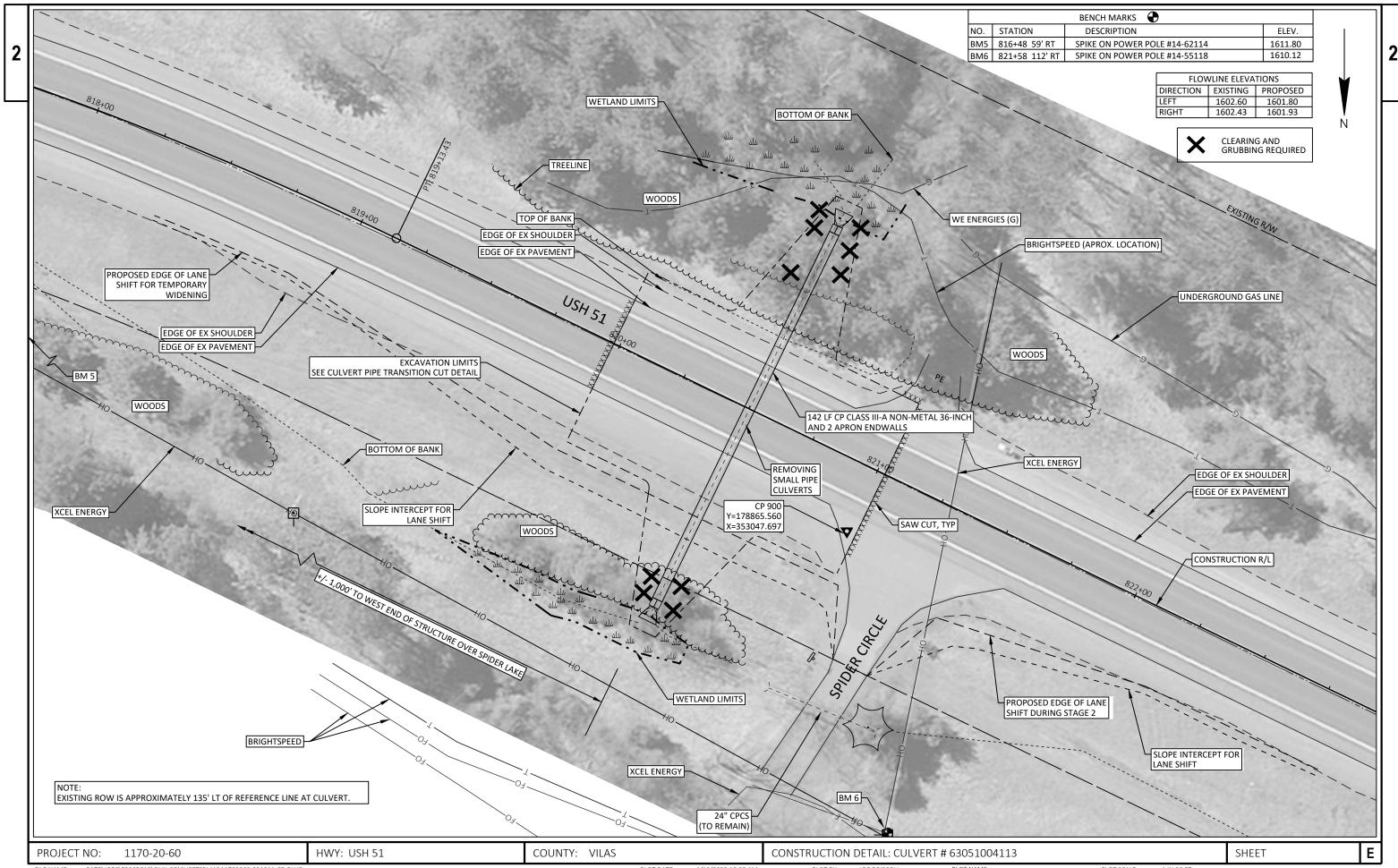


FILE NAME: F:\TR\JOBS\E2065C19\CIVIL 3D\SHEETSPLAN\11702060-021005-CD.DWG PLOT DATE: 1/10/2023 9:56 AM PLOT BY: JOE DRISCOLL PLOT NAME: 1 IN:20 FT WISDOT/CADDS SHEET 42

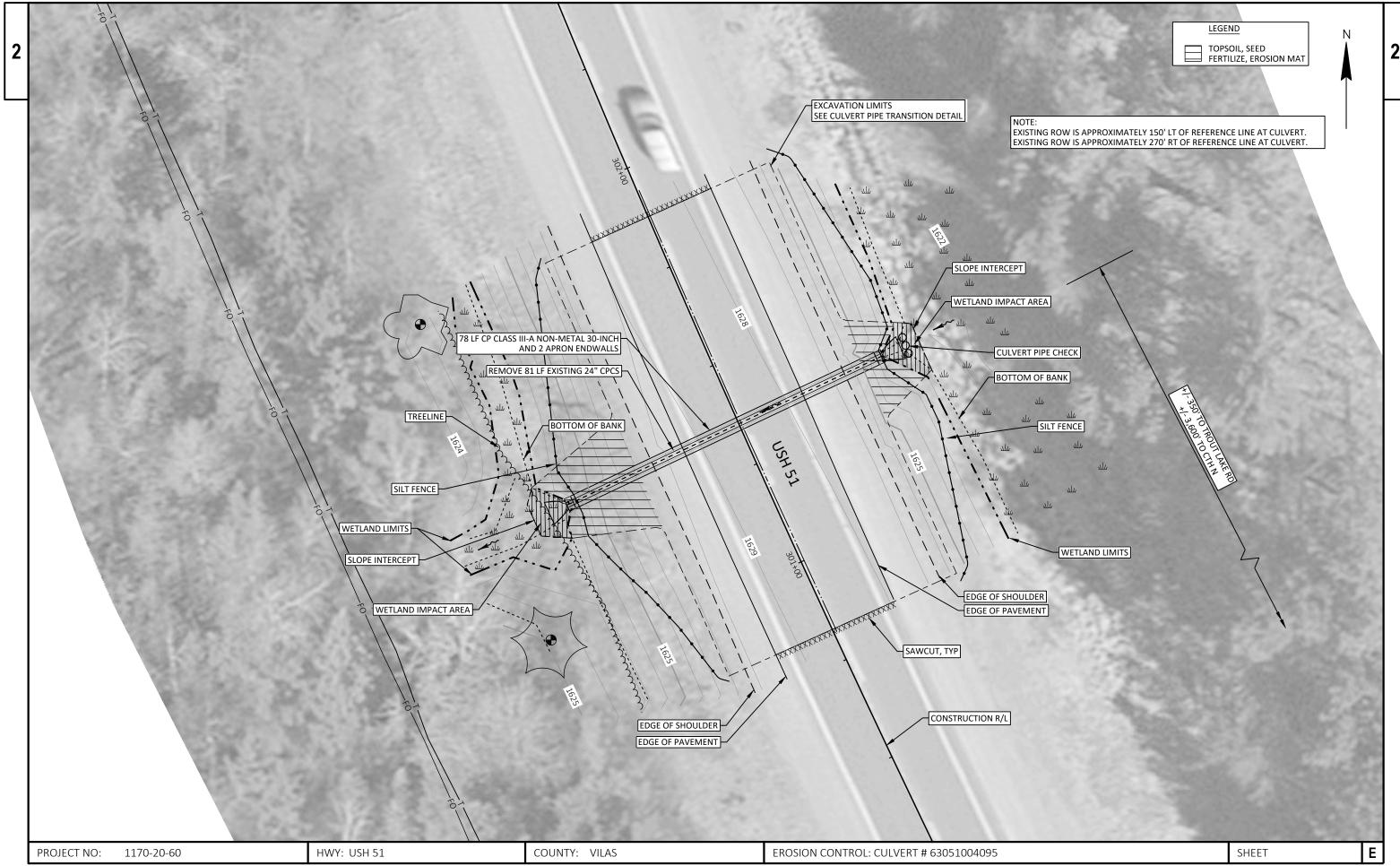
LAYOUT NAME - 11702060-021005-cd



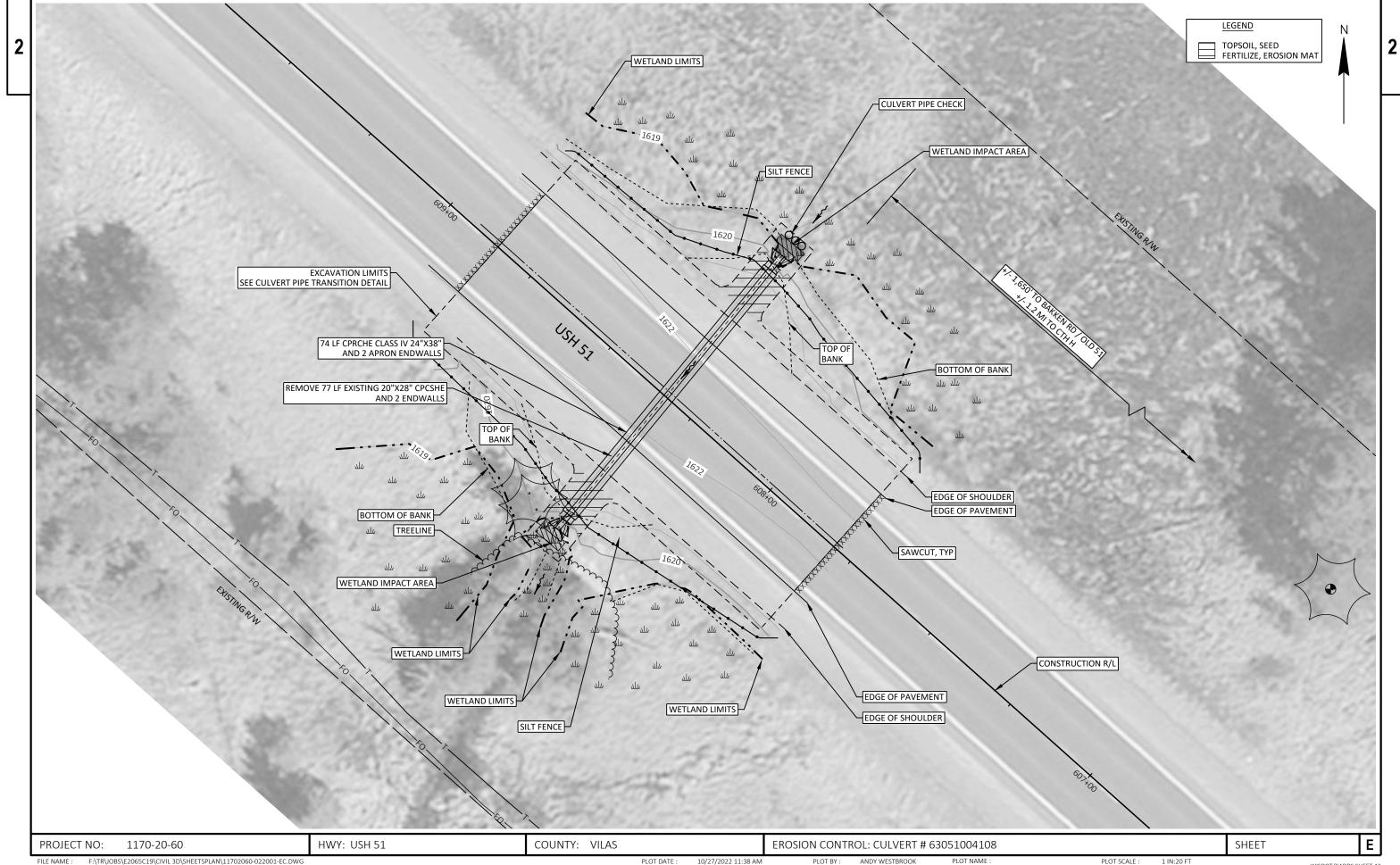




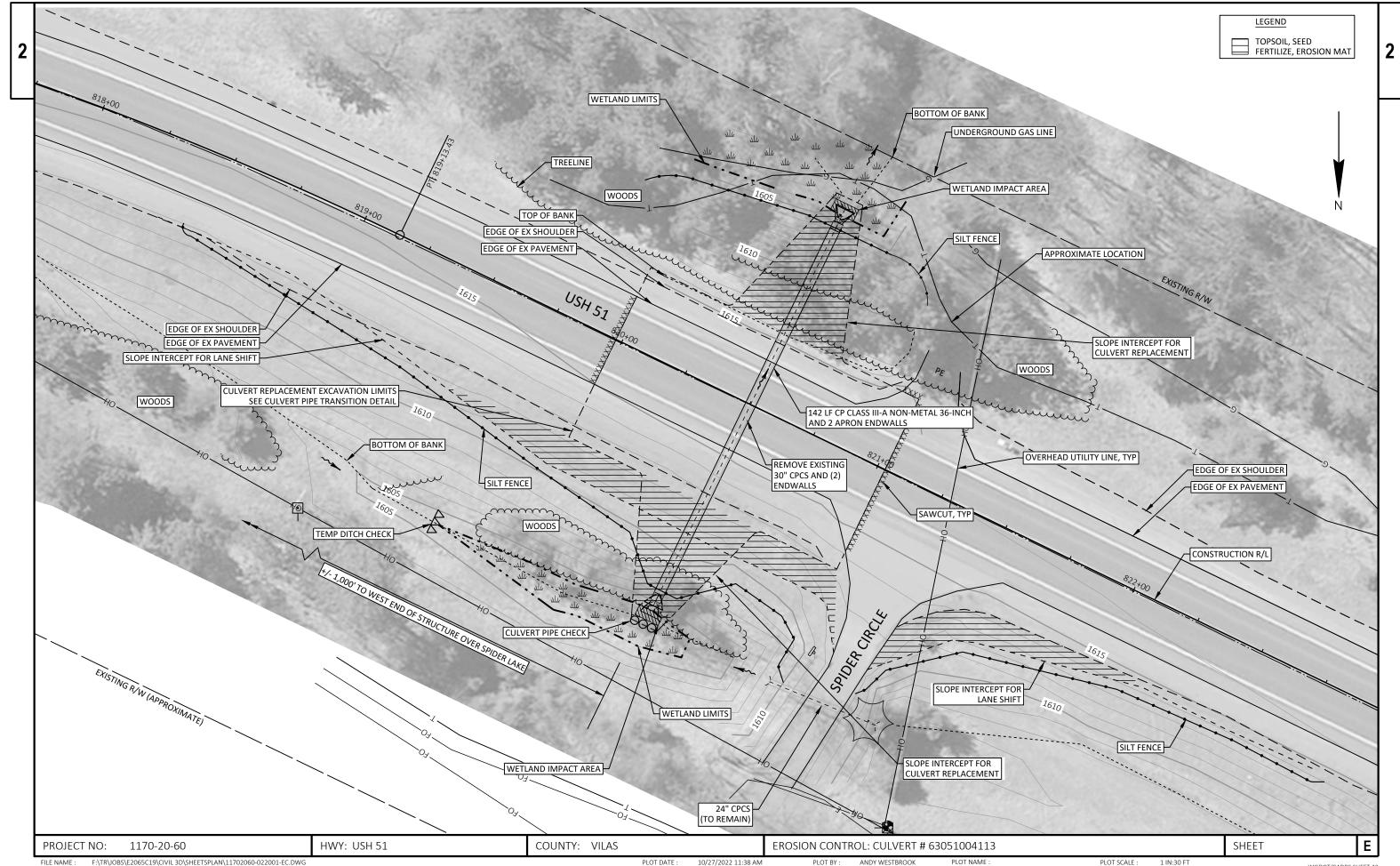
FILE NAME : F\TR\JOBS\E2065C19\CIVIL 3D\SHEETSPLAN\11702060-021011-CD.DWG PLOT DATE : 1/10/2023 10:08 AM PLOT BY : JOE DRISCOLL PLOT NAME : 1 IN:30 FT WISDOT/CADDS SHEET 42 WISDOT/CADDS SHEET 42



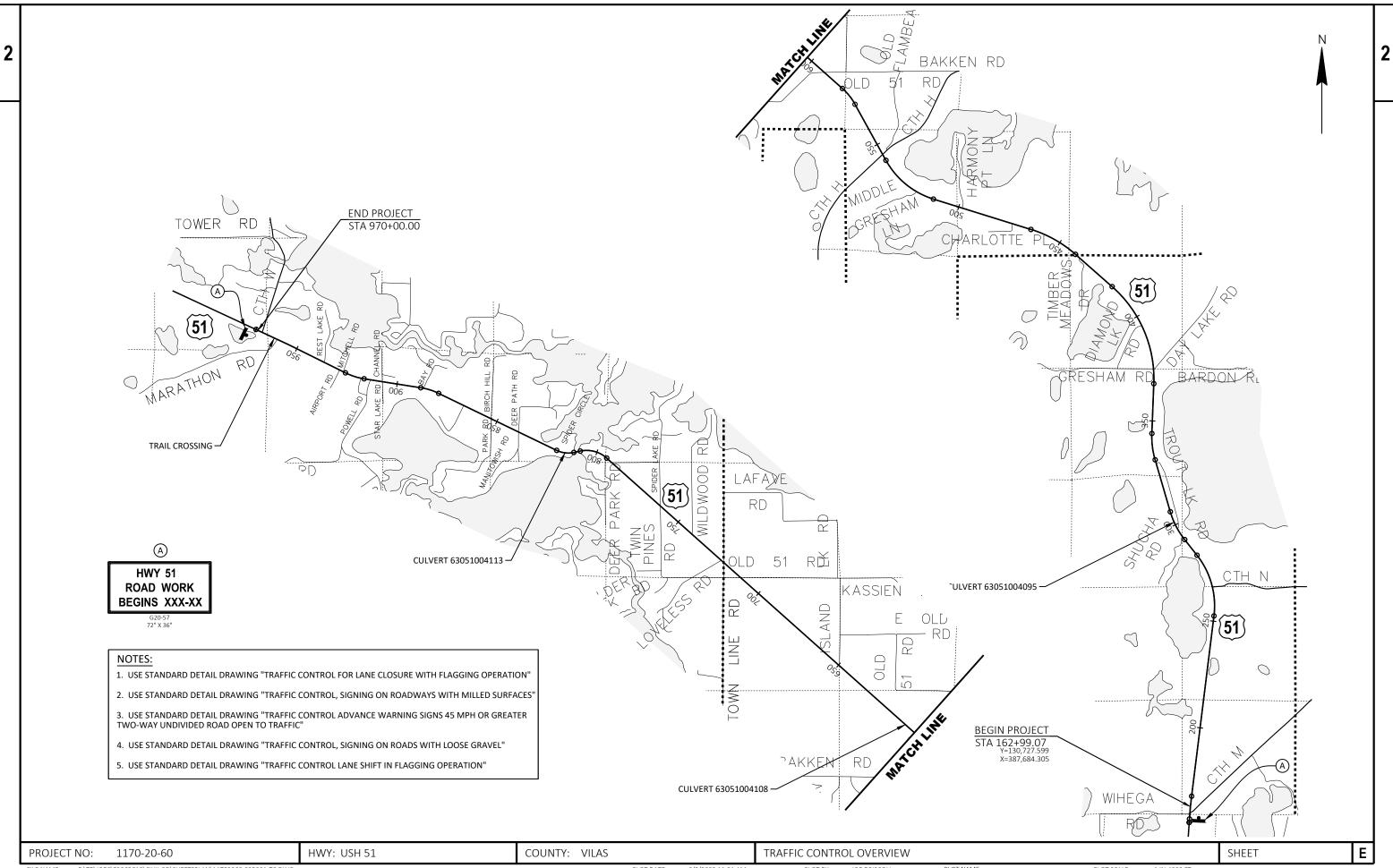
FILE NAME: F\TR\\OBS\\\E2065C19\CIVIL 3D\\\SHEETSPLAN\\11702060-022001-EC.DWG PLOT DATE: 10/27/2022 11:35 AM PLOT BY: ANDY WESTBROOK PLOT NAME: 1 IN:20 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 11702060-022001-ec



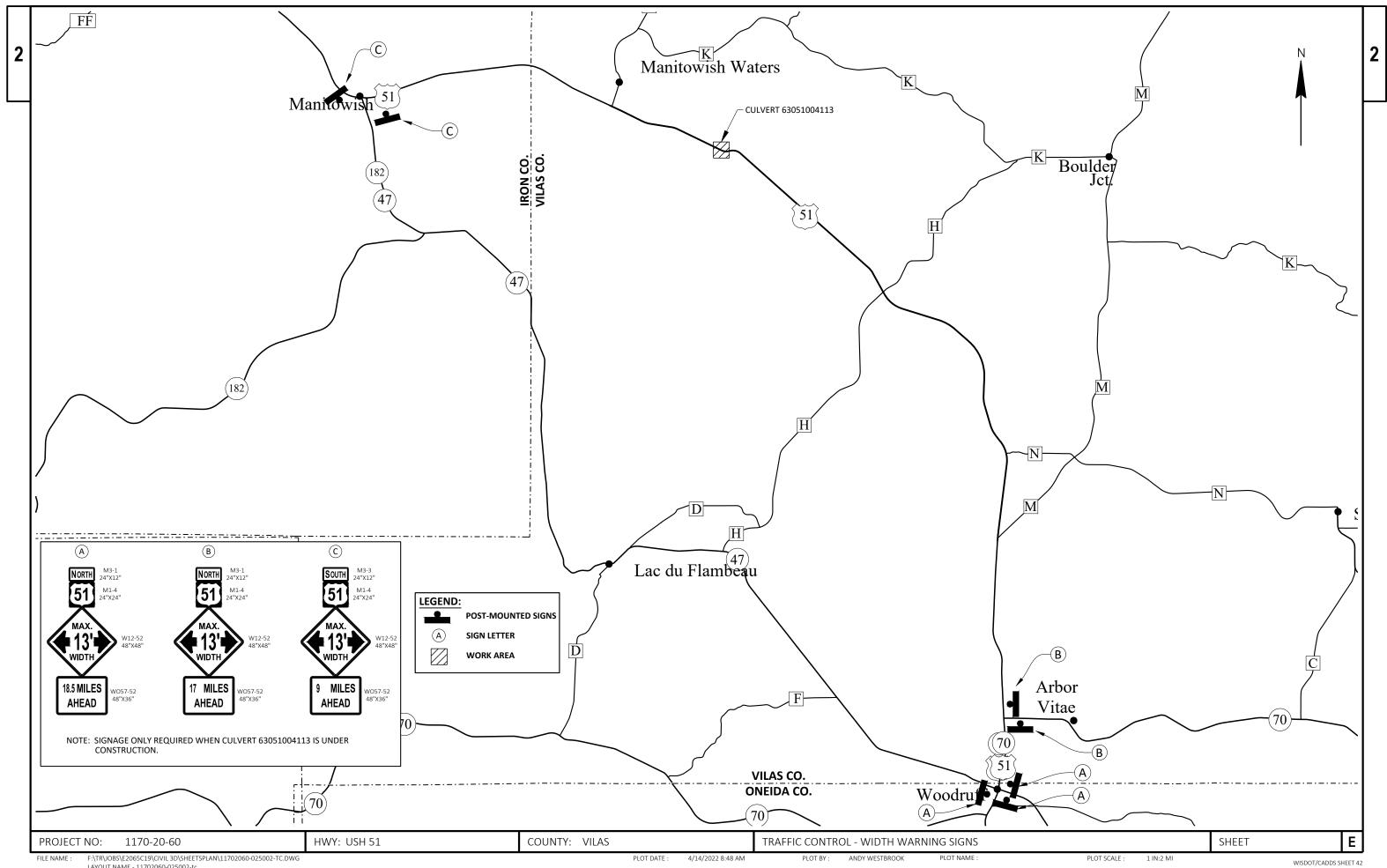
FILE NAME : F:\TR\OBS\E2065C19\CIVIL 3D\SHEETSPLAN\11702060-022001-EC.DWG PLOT DATE : 10/27/2022 11:38 AM PLOT BY: ANDY WESTBROOK PLOT NAME : 1 IN:20 FT WISDOT/CADDS SHEET 42 EAYOUT NAME - 11702060-022002-ec



FILE NAME : F:\TR\OBS\E2065C19\CIVIL 30\SHEETSPLAN\11702060-022001-EC.DWG PLOT NAME : PLOT SCALE : 1 IN:30 FT WISDOT/CADDS SHEET 42
LAYOUT NAME - 11702060-022003-ec



LAYOUT NAME - 11702060-025001-tc



LAYOUT NAME - 11702060-025002-tc

AME: F;\TR\\OBS\\E2065C19\CIVIL 3D\\SHEETSPLAN\\11702060-026101-52,DWG PLOT BY: JOE DRISCOLL PLOT NAME: PLOT BY: DE DRISCOLL PLOT NAME: 1 in:40 FT LAYOUT NAME - 11702060-026101-52

633.5200 Markers Culvert End

					1170 20 60
					1170-20-60
Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	2.000	2.000
0004	201.0205	Grubbing	STA	2.000	2.000
0006	203.0100	Removing Small Pipe Culverts	EACH	3.000	3.000
8000	204.0110	Removing Asphaltic Surface	SY	21.000	21.000
0010	204.0115	Removing Asphaltic Surface Butt Joints	SY	1,435.000	1,435.000
0012	204.0120	Removing Asphaltic Surface Milling	SY	294,880.000	294,880.000
0014	205.0100	Excavation Common	CY	1,879.000	1,879.000
0016	208.0100	Borrow	CY	113.000	113.000
0018	208.1500.S	Temporary Lane Shift During Culvert Work	EACH	2.000	2.000
0020	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 1170-20-60	EACH	1.000	1.000
0022	213.0100	Finishing Roadway (project) 01. 1170-20-60	EACH	1.000	1.000
0024	305.0110	Base Aggregate Dense 3/4-Inch	TON	6,245.000	6,245.000
0026	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,170.000	1,170.000
0028	455.0605	Tack Coat	GAL	20,880.000	20,880.000
0030	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	1.000	1.000
0032	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	1.000	1.000
0034	460.2005	Incentive Density PWL HMA Pavement	DOL	24,520.000	24,520.000
0036	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	31,980.000	31,980.000
0038	460.2010	Incentive Air Voids HMA Pavement	DOL	34,080.000	34,080.000
0040	460.6224	HMA Pavement 4 MT 58-28 S	TON	34,070.000	34,070.000
0042	465.0105	Asphaltic Surface	TON	440.000	440.000
0044	465.0110	Asphaltic Surface Patching	TON	30.000	30.000
0046	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	150.000	150.000
0048	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	40,400.000	40,400.000
0050	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	66,390.000	66,390.000
0052	520.1030	Apron Endwalls for Culvert Pipe 30-Inch	EACH	2.000	2.000
0054	520.1036	Apron Endwalls for Culvert Pipe 36-Inch	EACH	2.000	2.000
0056	520.2018	Culvert Pipe Temporary 18-Inch	LF	50.000	50.000
0058	520.3430	Culvert Pipe Class III-A Non-metal 30-Inch	LF	78.000	78.000
0060	520.3436	Culvert Pipe Class III-A Non-metal 36-Inch	LF	142.000	142.000
0062	522.2424	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	LF	74.000	74.000
0064	522.2624	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 24x38-Inch	EACH	2.000	2.000
0066	602.0415	Concrete Sidewalk 6-Inch	SF	60.000	60.000
0068	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	40.000	40.000
0070	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1170-20-60	EACH	1.000	1.000
0072	619.1000	Mobilization Water	EACH	1.000	1.000
0074	624.0100	Water	MGAL	74.000	74.000
0076	625.0100	Topsoil Sit Fance	SY	2,080.000	2,080.000
0078	628.1504	Silt Fence	LF LF	1,200.000	1,200.000
0800	628.1520	Silt Fence Maintenance Mobilizations Erosion Control		1,200.000	1,200.000
0082	628.1905		EACH EACH	4.000	4.000
0084 0086	628.1910 628.2008	Mobilizations Emergency Erosion Control Erosion Mat Lirban Class L Type R		2.000	2.000
0086	628.7504	Erosion Mat Urban Class I Type B	SY LF	2,140.000 30.000	2,140.000 30.000
0090	628.7555	Temporary Ditch Checks Culvert Pipe Checks	EACH	9.000	9.000
0090	629.0210	Fertilizer Type B	CWT	1.500	1.500
0092	630.0130	Seeding Mixture No. 30	LB	37.000	37.000
0094	630.0500	Seed Water	MGAL	46.000	46.000
0030	000.000	OCCU WAICI	MOAL	40.000	+0.000

EACH

6.000

6.000

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Line	Item	Item Description	Unit	Total	Qty
0100	642.5001	Field Office Type B	EACH	1.000	1.000
0102	643.0300	Traffic Control Drums	DAY	347.000	347.000
0104	643.0420	Traffic Control Barricades Type III	DAY	10.000	10.000
0106	643.0705	Traffic Control Warning Lights Type A	DAY	20.000	20.000
0108	643.0900	Traffic Control Signs	DAY	14,944.000	14,944.000
0110	643.1000	Traffic Control Signs Fixed Message	SF	36.000	36.000
0112	643.3105	Temporary Marking Line Paint 4-Inch	LF	48,436.000	48,436.000
0114	643.3120	Temporary Marking Line Epoxy 4-Inch	LF	60,409.000	60,409.000
0116	643.5000	Traffic Control	EACH	1.000	1.000
0118	644.1410	Temporary Pedestrian Surface Asphalt	SF	1,010.000	1,010.000
0120	644.1810	Temporary Pedestrian Barricade	LF	55.000	55.000
0122	646.1020	Marking Line Epoxy 4-Inch	LF	63,577.000	63,577.000
0124	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	156,043.000	156,043.000
0126	646.3040	Marking Line Grooved Wet Ref Epoxy 8-Inch	LF	1,290.000	1,290.000
0128	650.4500	Construction Staking Subgrade	LF	90.000	90.000
0130	650.5000	Construction Staking Base	LF	90.000	90.000
0132	650.6000	Construction Staking Pipe Culverts	EACH	3.000	3.000
0134	650.8000	Construction Staking Resurfacing Reference	LF	80,701.000	80,701.000
0136	650.9500	Construction Staking Sidewalk (project) 01. 1170-20-60	EACH	1.000	1.000
0138	650.9911	Construction Staking Supplemental Control (project) 01. 1170-20-60	EACH	1.000	1.000
0140	690.0150	Sawing Asphalt	LF	400.000	400.000
0142	740.0440	Incentive IRI Ride	DOL	60,564.000	60,564.000
0144	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	2,000.000	2,000.000
0146	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	1,260.000	1,260.000
0148	SPV.0180	Special 01. Protective Thermoplastic Coating at Snowmobile Trail Crossings	SY	565.000	565.000

CLEARING AND GRUBBING

			201.0105	201.0205
STATION	DIR	ROADWAY	CLEARING	GRUBBING
			STA	STA
PROJECT 1	170-20-60)		
CATEGORY	0010			
608+40	LT	USH 51	1	1
820+50	LT	USH 51	1	1

PROJECT TOTAL 2 2

REMOVING SMALL PIPE CULVERTS

		203.0100	
STATION	ROADWAY		COMMENT
		EA	
PROJECT 1	170-20-60		
CATEGORY	0010		
301+35	USH 51	1	81 LF 24" CPCS
608+32	USH 51	1	77 LF 20"X28" CPCSHE
820+50	USH 51	1	146 LF 30" CPCS

PROJECT TOTAL 3

REMOVING ASPHALTIC SURFACE

				204.0110	204.0115	204.0120	
				DEMOVITNG	REMOVING	REMOVING	
STATTON	STATION TO STATION	TION ROADWAY	REMOVING	ASPHALTIC	ASPHALTIC	COMMENTS	
317112011	. •	517112011	10, 1511, 11	ASPHALTIC SURFACE	SURFACE BUTT	SURFACE	COMMENTS
				SURFACE	JOINTS	MILLING	
				SY	SY	SY	
PROJECT 1	1170	-20-60					
CATEGORY	001	.0					
162+99	-	215+00	USH 51		35	17,670	
215+00	-	275+00	USH 51		35	22,590	
275+00	-	335+00	USH 51		105	20,650	
335+00	-	395+00	USH 51		110	18,480	QTY EXCLUDES EXCEPT TO NET CL LENGTH STA 356+00 - 362+82
395+00	-	455+00	USH 51		115	22,240	
455+00	-	515+00	USH 51		50	20,760	
515+00	-	575+00	USH 51		125	22,290	
575+00	-	635+00	USH 51		45	20,500	
635+00	-	695+00	USH 51		25	20,170	
695+00	-	755+00	USH 51		165	23,190	
755+00		815+00	USH 51		80	23,790	
815+00	-	875+00	USH 51		160	23,820	
875+00	-	935+00	USH 51		240	23,950	
935+00	-	970+00	USH 51		145	14,780	
961+8	8 L7	г & RT	USH 51	21			DETECT WARN FIELD CONST

PROJECT TOTALS 21 1,435 294,880

EXCAVATION COMMON

				205.0100	
STATION	TO	STATION	ROADWAY		COMMENTS
				CY	
PROJECT 1	L170	-20-60			
CATEGORY	001	0			
5+20	-	6+45	TEMP TRAIL	99	TEMP TRAIL CONSTRUCTION AND REMOVAL
301+35			USH 51	670	TRANSITON CUT AND ASPHALTIC PAVEMENT
608+32		USH 51	440	REMOVAL	
8	20+5	50	USH 51	670	REMOVAL

PROJECT TOTALS 1,879

BORROW

				208.0100	
STATION	STATION TO STATION		ROADWAY		COMMENTS
				CY	
PROJECT 1	L170	-20-60		-	
CATEGORY	001	0			
5+20	_	6+45	TEMP TRAIL	113	TEMP TRAIL CONSTRUCTION

PROJECT TOTALS 113

TEMPORARY LANE SHIFT DURING CULVERT WORK

					FOR INFORMATION ONLY				
STATION	TO STATION	DIR	ROADWAY	208.1500.S.01 EA	EXCAVATION*	BORROW*	BASE AGGREGATE DENSE 3/4-INCH*	BASE AGGREGATE DENSE 1 1/4-INCH*	
					CY	CY	TON	TON	
PROJECT 1	1170-20-60								
CATEGORY 0010									
818+28	- 822+93	RT	USH 51	2	390	260	20	280	

PROJECT TOTAL

*QUANTITIES SHOWN FOR INFORMATIONAL PURPOSES ONLY. QUANTITIES WILL VARY BASED ON CONTRACTOR'S LANE SHIFT FINAL LAYOUT.

PROJECT NO: 1170-20-60 HWY: USH 51 COUNTY: VILAS MISCELLANEOUS QUANTITIES SHEET E

2

BASE AGGREGATE DENSE

				305.0110	305.0120	624.0100					
STATION T	O STATION	DIR	ROADWAY	3/4-INCH	1 1/4-INCH	WATER	COMMENTS				
				TON	TON	MGAL					
PROJECT 11	PROJECT 1170-20-60										
CATEGORY 0	010										
162+99	- 215+00	LT/RT	USH 51	450		5					
215+00 -	- 275+00	LT/RT	USH 51	490		5					
275+00 -	- 335+00	LT/RT	USH 51	530		5					
335+00 -	- 395+00	LT/RT	USH 51	500		5					
395+00 -	- 455+00	LT/RT	USH 51	460		5					
455+00 -	- 515+00	LT/RT	USH 51	510		5					
515+00 -	- 575+00	LT/RT	USH 51	520		5					
575+00 -	- 635+00	LT/RT	USH 51	530		5					
635+00 -	- 695+00	LT/RT	USH 51	540		5					
695+00	- 755+00	LT/RT	USH 51	410		4					
755+00 -	- 815+00	LT/RT	USH 51	330		3					
815+00 -	- 875+00	LT/RT	USH 51	380		4					
875+00 -	- 935+00	LT/RT	USH 51	380		4					
935+00 -	- 970+00	LT/RT	USH 51	190		2					
961	+58	LT/RT	USH 51	20			TEMP TRAIL BASE				
961	+90	LT/RT	USH 51	5			DETECTABLE WARNING FIELD				
301	+35	CL	USH 51		390	4	CULVERT REPLACEMENT				
608	+33	CL	USH 51		390	4	CULVERT REPLACEMENT				
820	+50	CL	USH 51		390	4	CULVERT REPLACEMENT				

PROJECT TOTALS

6,245

1,170 74

ASPHALTIC ITEMS

				455.0605	460.6224	465.0105	465.0110	465.0120					
STATION	то	STATION	ROADWAY	TACK COAT	HMA PAVEMENT 4 MT 58-28 S	ASPHALTIC SURFACE	ASPHALTIC SURFACE PATCHING	ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES	COMMENTS				
				GAL	TON	TON	TON	TON					
PROJECT 3	1170	-20-60											
CATEGORY	001	.0											
162+99	-	215+00	USH 51	1,240	2,035				OVERLAY				
215+00	-	275+00	USH 51	1,580	2,600			6	OVERLAY				
275+00	_	335+00	USH 51	1,450	2,385			8	OVERLAY				
335+00	_	395+00	USH 51	1,300	2,140			8	OVERLAY; QTY EXCLUDES EXCEPT TO NET CL LENGTH STA 356+00 - 362+82				
395+00	_	455+00	USH 51	1,560	2,570			6	OVERLAY				
455+00	_	515+00	USH 51	1,460	2,395				OVERLAY				
515+00	_	575+00	USH 51	1,570	2,580			6	OVERLAY				
575+00	_	635+00	USH 51	1,440	2,360				OVERLAY				
635+00	_	695+00	USH 51	1,410	2,320			3	OVERLAY				
695+00	_	755+00	USH 51	1,630	2,685			31	OVERLAY				
755+00	-	815+00	USH 51	1,670	2,745			13	OVERLAY				
815+00	_	875+00	USH 51	1,680	2,760			13	OVERLAY				
875+00	_	935+00	USH 51	1,690	2,780			31	OVERLAY				
935+00	_	970+00	USH 51	1,040	1,715			11	OVERLAY				
3	01+3	35	USH 51	50		140			CULV REPLACEMENT				
6	08+3	33	USH 51	50		140			CULV REPLACEMENT				
8	20+5	50	USH 51	60		160			CULV REPLACEMENT				
UNDIS	STRI	BUTED	USH 51				30	14	TEMP RAMPING				
		PROJEC	CT TOTALS	20,880	34,070	440	30	150					

PROJECT NO: 1170-20-60

HWY: USH 51

COUNTY: VILAS

MISCELLANEOUS QUANTITIES

SHEET

HMA MIXTURE ACCEPTANCE

STATION	то	STATION	ROADWAY	LOCATION	UNDERLAYING SURFACE	MIXTURE USE	BID ITEM	LAYER DEPTH (IN)	TONNAGE	COMMENT		
	PROJECT 6251-11-70 CATEGORY 0010											
CATEGORY	00	10				1	1		1			
162+99		711+00	USH 51	DRIVING LANE	MILLED HMA	UPPER	4 MT 58-28 S	2	16,580	DENSITY ACCEPTANCE: INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005 MIXTURE ACCEPTANCE: PWL INCENTIVE DENSITY AIR VOIDS 460.2010		
102+99		711+00	02H 3T	SHOULDERS	MILLED HMA	UPPER	4 MT 58-28 S	2	2,045	DENSITY ACCEPTANCE: DENSITY ACCEPTANCE TESTING BY DEPARTMENT MIXTURE ACCEPTANCE: PWL INCENTIVE DENSITY AIR VOIDS 460.2010		
-11 00		0=0 00		DRIVING LANE	MILLED HMA	UPPER	4 MT 58-28 S	2	7,940	DENSITY ACCEPTANCE: INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005 MIXTURE ACCEPTANCE: PWL INCENTIVE DENSITY AIR VOIDS 460.2010		
711+00	-	970+00	USH 51	SHOULDERS	MILLED HMA	UPPER	4 MT 58-28 S	2	1,650	DENSITY ACCEPTANCE: DENSITY ACCEPTANCE TESTING BY DEPARTMENT MIXTURE ACCEPTANCE: PWL INCENTIVE DENSITY AIR VOIDS 460.2010		
162+99	-	970+00	USH 51	SIDEROADS	MILLED HMA	UPPER	4 MT 58-28 S	2	5,855	DENSITY ACCEPTANCE: DENSITY ACCEPTANCE TESTING BY DEPARTMENT MIXTURE ACCEPTANCE: PWL INCENTIVE DENSITY AIR VOIDS 460.2010		

PROJECT NO: 1170-20-60 HWY: USH 51 COUNTY: VILAS MISCELLANEOUS QUANTITIES SHEET 3.3

PRINT DATE: January 4, 2023

ORIG. DATE:

ORIGINATOR: OMNNI ASSOCIATES

ASPHALTIC RUMBLE STRIPS

				465.0425	465.0475	
				ASPHALTIC	ASPHALTIC	
STATION	тο	STATION	ROADWAY	SHOULDER	CENTERLINE	COMMENTS
317112011	. 0	517112011	10,1511,11	RUMBLE STRIPS	RUMBLE STRIPS	COMMENTS
				2-LANE RURAL	2-LANE RURAL	
				LF	LF	
PROJECT 1	L170	-20-60				
CATEGORY	001	0				
162+99	_	215+00	USH 51		5,200	
215+00	-	275+00	USH 51		5,600	
275+00	-	335+00	USH 51		4,770	
335+00	-	395+00	USH 51		5,430	
395+00	-	455+00	USH 51		5,370	
455+00	-	515+00	USH 51		5,200	
515+00	-	575+00	USH 51		5,200	
575+00	-	635+00	USH 51		5,550	
635+00	_	695+00	USH 51		5,600	
695+00	_	711+00	USH 51		1,400	
711+00	-	755+00	USH 51	6,930	3,200	TYPE 1 (BOTH SHOULDERS)
755+00	-	815+00	USH 51	9,860	4,590	TYPE 1 (BOTH SHOULDERS)
815+00	-	875+00	USH 51	9,900	4,800	TYPE 1 (BOTH SHOULDERS)
875+00	-	935+00	USH 51	8,570	2,510	TYPE 1 (BOTH SHOULDERS)
935+00	_	970+00	USH 51	5,140	1,970	TYPE 1 (BOTH SHOULDERS)

			520.2018
STATION	DIR	ROADWAY	18-INCH
			LF
PROJECT 1	170-20-60	1	
CATEGORY	0010		
961+58	LT	T USH 51 28	
961+58	RT	USH 51	22

CULVERT PIPE TEMPORARY

PROJECT TOTAL 50

CONCRETE SIDEWALK

			602.0415	602.0505
STATION	DIR	ROADWAY	CONCRETE SIDEWALK 6-INCH	CURB RAMP DETECTABLE WARNING FIELD YELLOW
			SF	SF
PROJECT 1	170-20-60			
CATEGORY	0010			
961+88	LT	USH 51	30	20
961+88	RT	USH 51	30	20

PROJECT TOTALS 60 40

40,400

PROJECT TOTALS

66,390

DRAINAGE

		520.3430	520.3436	522.2424	520.1030	520.1036	522.2624	633.5200	
STATION	ROADWAY	CULVERT PIPE CLASS III-A NON-METAL		CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS IV		S FOR CULVERT	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL	MARKERS CULVERT END	
		30-INCH	36-INCH	24x38-INCH	30-INCH	36-INCH	24x38-INCH		
	LF LF LF		EA	EA	EA	EA			
PROJECT 1170-	20-60								
CATEGORY 0010)								
301+35	USH 51	78			2			2	
608+32	USH 51			74			2	2	
820+50					2		2		
PR	OJECT TOTALS	78	142	74	2	2	2	6	

PROJECT NO: 1170-20-60 HWY: USH 51 COUNTY: VILAS MISCELLANEOUS QUANTITIES SHEET E 3

EROSION	CONTROL
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		628.1504	628.1520	628.1905	628.1910	628.2008*	628.7504	628.7555	
STATION	ROADWAY	SILT FENCE	SILT FENCE MOBILIZATIONS MAINTENANCE EROSION CONTROL		MOBILIZATIONS EMERGENCY EROSION CONTROL	EROSION MAT URBAN CLASS I TYPE B	TEMPORARY DITCH CHECKS	CULVERT PIPE CHECKS	
		LF	LF	EA	EA	SY	LF	EA	
PROJECT 1	170-20-60								
CATEGORY (0010								
301+35	USH 51	235	235	1		15		3	
608+32	USH 51	235	235	1		15		3	
820+50	USH 51	550	550	1		15	15	3	
UNDIST	RIBUTED	180	180	1	2	15	15		
	•		•						

4 2

60*

1,200

TEMPORARY PEDESTRIAN SURFACE

PROJECT TOTALS 1,200

			644.1410		
STATION	DIR	ROADWAY	ASPHALT		
			SF		
PROJECT 1	170-20-60				
CATEGORY	0010				
961+58	3 LT USH 51		385		
961+58	RT	USH 51	625		

PROJECT TOTAL 1,010

TEMPORARY PEDESTRIAN BARRICADE

30

			644.1810					
STATION	DIR	LOCATION						
			LF					
PROJECT 1	L170-20-60							
CATEGORY	0010							
961+88	RT	TRAIL CROSSING	25					
961+88	LT	TRAIL CROSSING	30					

PROJECT TOTAL

9

RESTORATION

				630.0500	625.0100	628.2008*	629.0210	630.0130			
						EROSION MAT					
STATION TO STATION	DIR	ROADWAY	LOCATION	SEED WATER	TOPSOIL	URBAN	FERTILIZER	SEEDING			
	DIK		LOCATION	SEED WATER	101 3012	CLASS I	TYPE B	MIXTURE NO. 30			
						TYPE B					
				MGAL	SY	SY	CWT	LB			
PROJECT 1170-20-60											
CATEGORY 0010											
301+35	LT/RT	USH 51	CULV REPLACEMENT	3	130	130	0.1	2			
608+32	LT/RT	USH 51	CULV REPLACEMENT	2	110	110	0.1	2			
820+50	LT/RT	USH 51	CULV REPLACEMENT / LANE SHIFT	23	1,030	1,030	0.7	19			
961+58	961+58 LT/RT USH 51 TEMP TRAIL CONSTRUCTION		3	130	130	0.1	2				
961+58	961+58 LT/RT USH 51 TEMP TRAIL REMOVAL		6	260	260	0.2	5				
UNDISTRIBUTE)	USH 51		9	420	420	0.3	7			

PROJECT TOTAL 46 2,080 2,080* 1.5 37

PROJECT NO: 1170-20-60 HWY: USH 51 COUNTY: VILAS MISCELLANEOUS QUANTITIES SHEET E 3

^{*} ADDITIONAL QTY SHOWN IN RESTORATION TABLE

^{*} ADDITIONAL QTY SHOWN IN EROSION CONTROL TABLE

TRAFFIC CONTROL

			643.	.0300	643	.0420	643	.0705	643	.0900	643.1000		
		APPROX. SERVICE PERIOD	DR	DRUMS -		BARRICADES TYPE III		WARNING LIGHTS TYPE A		:GNS	SIGNS FIXED MESSAGE		
STAGE	LOCATION	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	SF	MESSAGE	NOTES
PROJECT 1170-20-60	0												
CATEGORY 0010													
	US 51 (CULVERT REPLACEMENT STA. 820+50)	1	35	35	3	3	6	6	5	5			
1	WIDTH RESTRICTION SIGNS - US 51 AT STH 47	1							12	12			
1	WIDTH RESTRICTION SIGNS - US 51 AT STH 70	1							8	8			
	WIDTH RESTRICTION SIGNS - US 51 AT STH 747/STH 182	1							8	8			
	US 51 (CULVERT REPLACEMENT STA. 820+50)	2	56	112	3	6	6	12	5	10			
2	WIDTH RESTRICTION SIGNS - US 51 AT STH 47	2							12	24			
	WIDTH RESTRICTION SIGNS - US 51 AT STH 70	2							8	16			
	WIDTH RESTRICTION SIGNS - US 51 AT STH 747/STH 182	2							8	16			
-	US 51 NB (MANITOWISH WATERS TRAIL CROSSING)	6	14	84					11	66			
_	US 51 SB (MANITOWISH WATERS TRAIL CROSSING)	6	14	84					11	66			
PRECONSTRUCTION	US 51	7									36	HWY 51 ROAD WORK BEGINS XXX-XX	NOTE 1
ALL	SIDE ROADS	67							132	8,844		ROAD WORK AHEAD, GROOVED PAVEMENT	NOTE 2
ALL	US 51	67							68	4,556			NOTE 3
	PROJECT SUBTOTALS			315		9		18		13,631	36		
	UNDISTRIBUTED			32		1		2		1,363	0		

TOTALS 347 10 20 14,994 36

NOTE 1: INSTALL AT PROJECT TERMINI A MINIMUM OF 7 DAYS PRIOR TO START OF CONSTRUCTION. REMOVE SIGNS AT START OF CONSTRUCTION.

NOTE 2: UTILIZE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER UNDIVIDED ROAD OPEN TO TRAFFIC" TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL AND SDD "TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES" TYPICAL SIDE ROAD APPROACH SIGN DETAIL.

NOTE 3: INSTALL SIGNS PER SDD "TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES".

PROJECT NO: 1170-20-60 HWY: USH 51 COUNTY: VILAS MISCELLANEOUS QUANTITIES SHEET E 3.6

PRINT DATE: January 4, 2023

PAVEMENT MARKING

				646.1020	646.1040	643.3105	643.3120	
		STATION	ROADWAY	MARKING LINE EPOXY 4-INCH	MARKING LINE	TEMPORARY	TEMPORARY	
					GROOVED WET	MARKING LINE	MARKING LINE	COMMENTS
STATION	TO				REF EPOXY	PAINT	EPOXY	COMMENTS
					4-INCH	4-INCH	4-INCH	
				(YELLOW)	(WHITE)	(YELLOW)	(YELLOW)	
				LF	LF	LF	LF	
PROJECT :	1170	-02-60						
CATEGORY	001	0						
162+99	-	215+00	USH 51	1,300	10,402	416	1,300	
215+00	-	275+00	USH 51	5,966	11,800	5,251	5,966	
275+00	-	335+00	USH 51	6,362	11,588	5,418	6,362	
335+00	-	395+00	USH 51	8,559	11,732	7,926	8,559	
395+00	-	455+00	USH 51	5,582	11,518	4,820	5,582	
455+00	-	515+00	USH 51	2,683	11,753	1,663	2,683	
515+00	-	575+00	USH 51	7,959	11,619	7,265	7,959	
575+00	-	635+00	USH 51	3,036	11,723	2,041	3,036	
635+00	-	695+00	USH 51	1,500	11,878	480	1,500	
695+00	-	755+00	USH 51	1,500	11,303	480	1,500	
755+00	-	815+00	USH 51	6,029	11,410	5,314	6,029	
815+00	-	875+00	USH 51	3,657	11,411	2,665	3,657	
875+00	-	935+00	USH 51	5,186	11,269	4,200	5,186	
935+00	-	970+00	USH 51	1,091	6,639	496	1,091	
		•	USH 51	3,168				FOR LOCATING NO PASSING ZONE
			55 52	5,200				BEYOND PROJECT LIMITS PER SDD

PROJECT TOTALS 63,577 156,043 48,436

NOTE: TEMPORARY PAVEMENT MARKING PAINT APPLIED TO MILLED SURFACE.

ORIGINATOR: OMNNI ASSOCIATES

NOTE: TEMPORARY MARKING EPOXY FOR APPLICATION BEFORE CENTER LINE RUMBLE STRIP PLACED.

NOTE: PAVEMENT MARKING EPOXY 4-INCH (YELLOW) FOR APPLICATION ON CENTERLINE AFTER CENTER LINE RUMBLE STRIP PLACED.

NOTE: MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH APPLIED AT EDGELINES.

PAVEMENT MARKING CHANNELIZING

60,409

STATION	то	STATION	ROADWAY	646.3040 MARKING LINE GROOVED WET REF EPOXY 8-INCH				
				(WHITE) LF	REMARKS			
PROJECT 1170-02-60								
CATEGORY 0010								
248+25	_	249+75	USH 51	150				
249+75	-	250+75	USH 51	25	SKIP DASH			
263+18	-	265+18	USH 51	200				
415+80	_	416+50	USH 51	20	SKIP DASH			
430+65	_	431+75	USH 51	110				
541+07	_	544+07	USH 51	300				
545+30	_	548+05	USH 51	275				
964+91	-	967+01	USH 51	210				

PROJECT TOTAL

ORIG. DATE:

PROJECT NO: 1170-20-60 HWY: USH 51 COUNTY: VILAS MISCELLANEOUS QUANTITIES SHEET E 3

1,290

CONSTRUCTION STAKING

			650.4500	650.5000	650.6000	650.8000	650.9500		
			SUBGRADE	BASE	PIPE CULVERTS	RESURFACING	SIDEWALK		
						REFERENCE	01. 1170-20-60		
STATION TO	STATION	LOCATION	LF	LF	EA	LF	EA		
PROJECT 1170-20-60									
CATEGORY 0010									
162+99 -	970+00	USH 51				80,701			
301+3	35	USH 51			1				
608+32		USH 51			1				
820+50		USH 51			1				
5+20 -	6+45	TEMP TRAIL	90	90			1		
		<u> </u>			<u> </u>	<u> </u>			

3

80,701

90

90

PROJECT TOTAL

SAWING

STATION	то	STATION	DIR	ROADWAY	690.0150 ASPHALT LF	COMMENT			
PROJECT 1	PROJECT 1170-20-60								
CATEGORY 0010									
301+35				USH 51	60	CULVERT PIPE REPLACEMENT			
608+32				USH 51	60	CULVERT PIPE REPLACEMENT			
820+50			820+50 USH 51 218 CULVERT PIPE F		CULVERT PIPE REPLACEMENT				
961+88			LT & RT	USH 51	62	DETECTIBLE WARNING FIELD			
					CONSTRUCTION				

PROJECT TOTAL 400

SNOWMOBILE TRAIL CROSSINGS

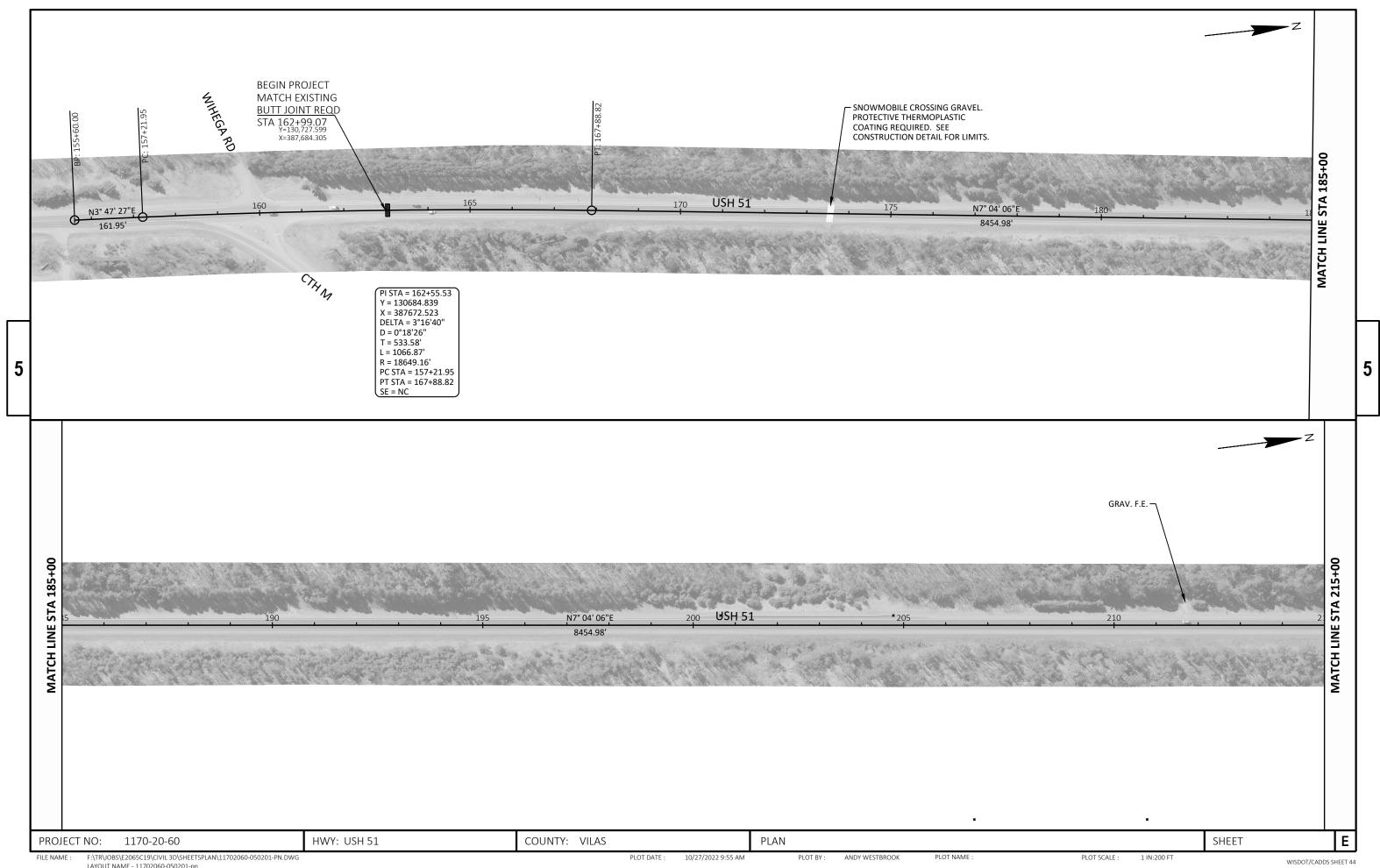
1

STATION	DIR	ROADWAY	SPV.0180.01 PROTECTIVE THERMOPLASTIC COATING AT SNOWMOBILE TRAIL	OFFSET FROM R/L (SEE CONST DETAIL)					
			CROSSINGS	LT	RT				
			SY	FT					
PROJECT 1	PROJECT 1170-20-60								
CATEGORY	CATEGORY 0010								
173+55	CL USH 51 70		70	20	21				
217+50	CL	USH 51	85	20	28				
374+27	CL	USH 51	100	22	22				
782+94	CL	USH 51	75	18	22				
803+72	CL USH 51		75	20	20				
920+42	CL	USH 51	85	20	20				
960+07	60+07 CL USH 51		75	25	20				

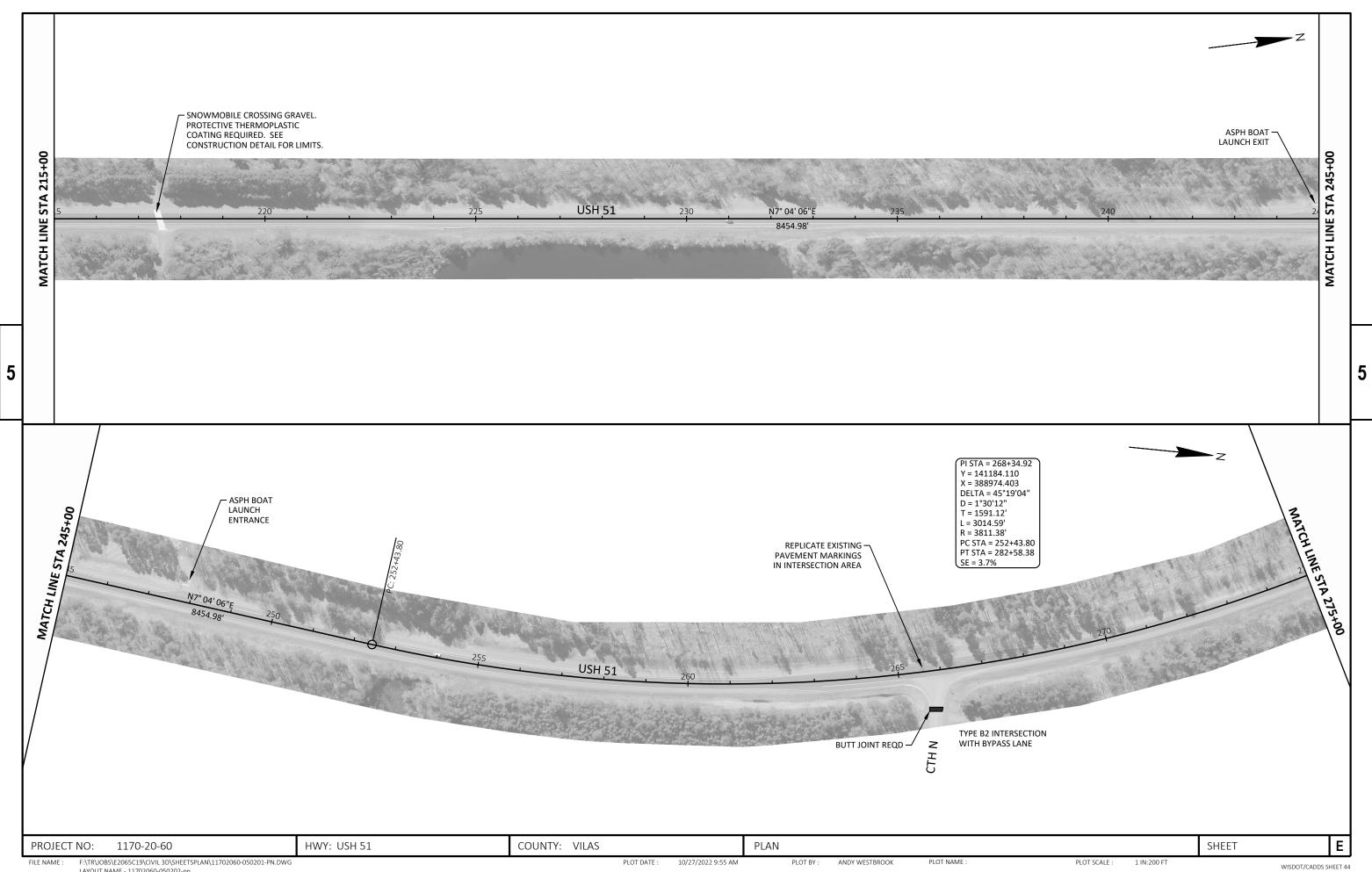
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PROJECT TOTALS

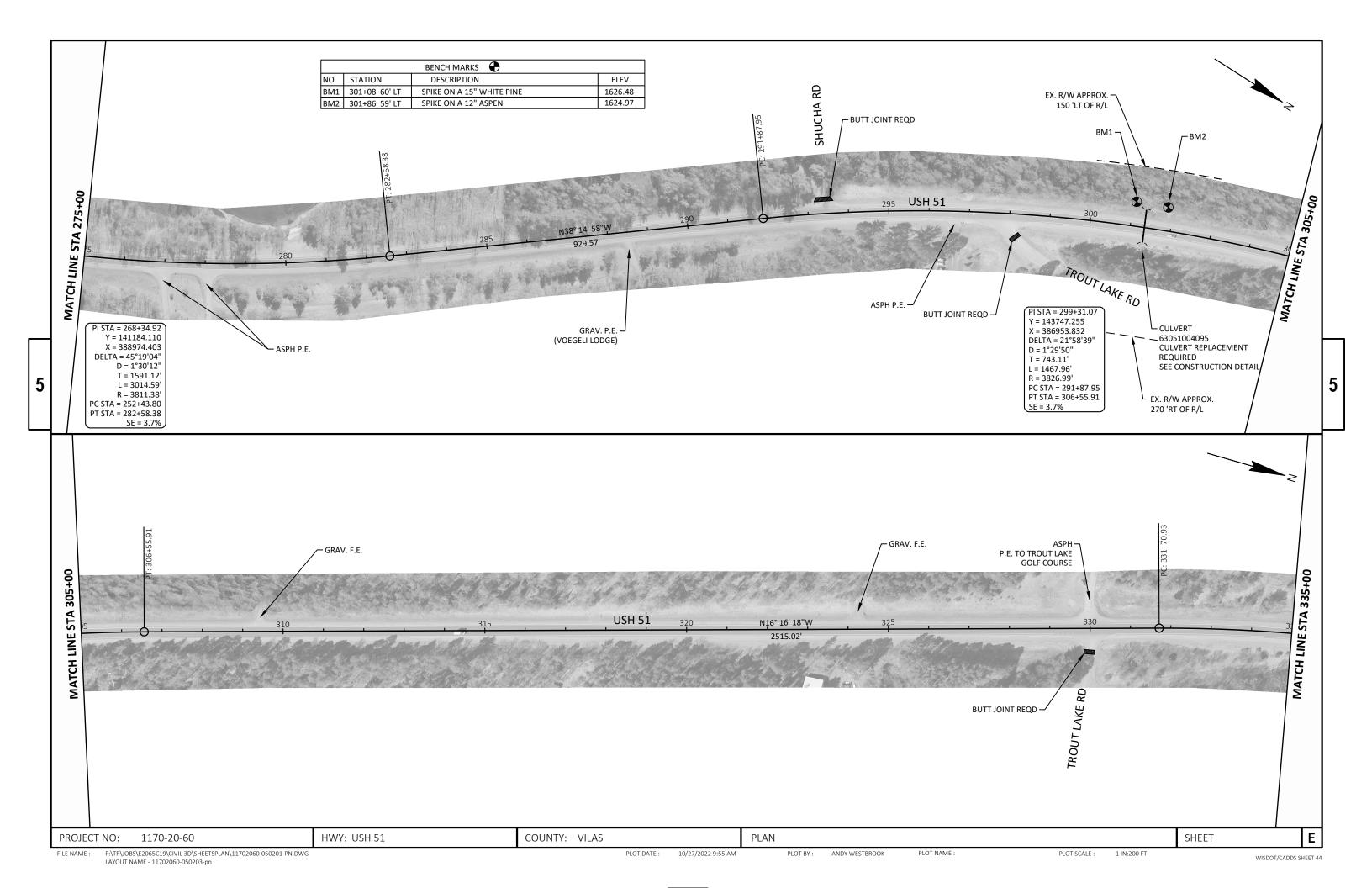
PROJECT NO: 1170-20-60 HWY: USH 51 COUNTY: VILAS MISCELLANEOUS QUANTITIES SHEET E 3.8

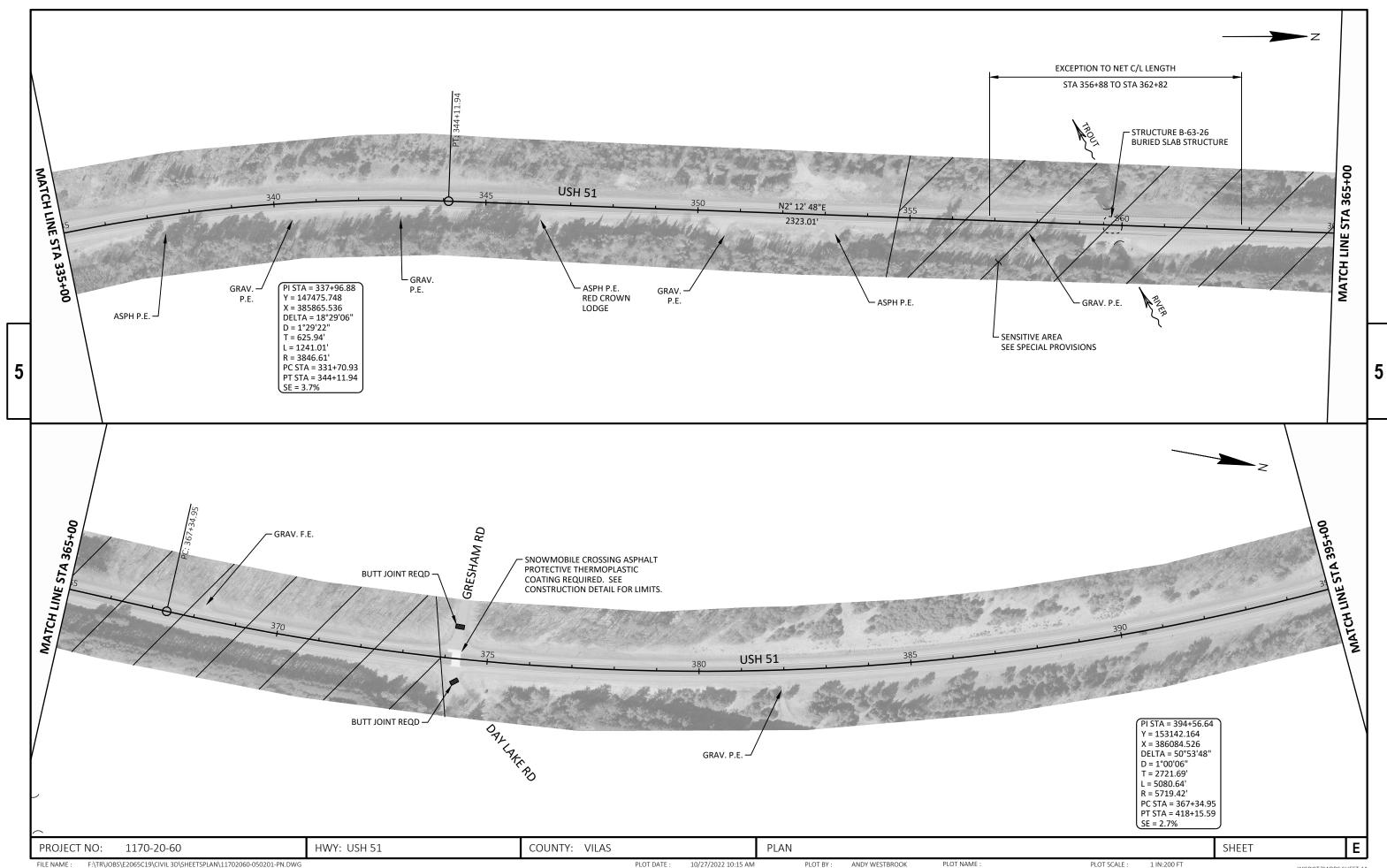


LAYOUT NAME - 11702060-050201-pn

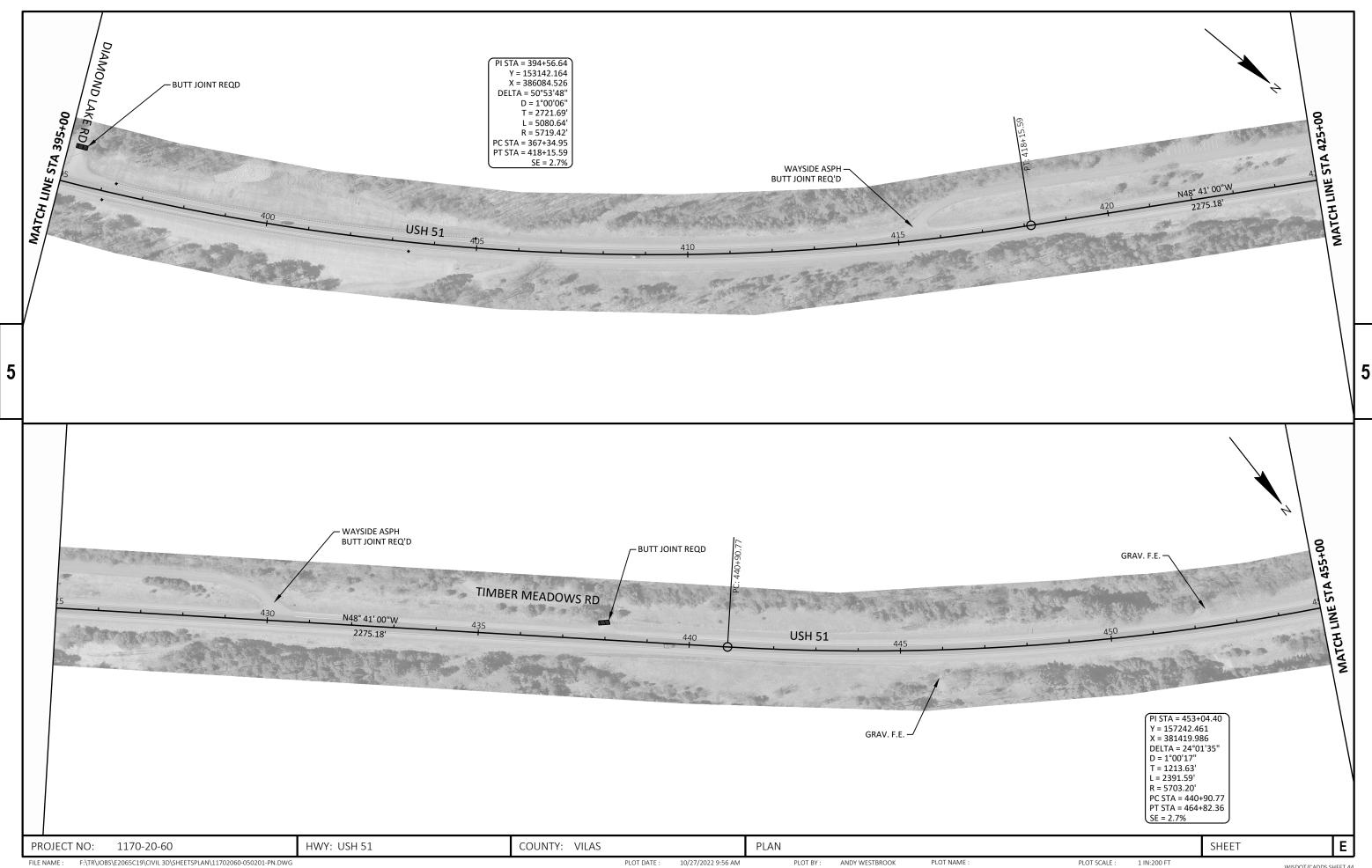


F:\TR\\OBS\E2065C19\CIVIL 3D\SHEETSPLAN\11702060-050201-PN.DWG LAYOUT NAME - 11702060-050202-pn

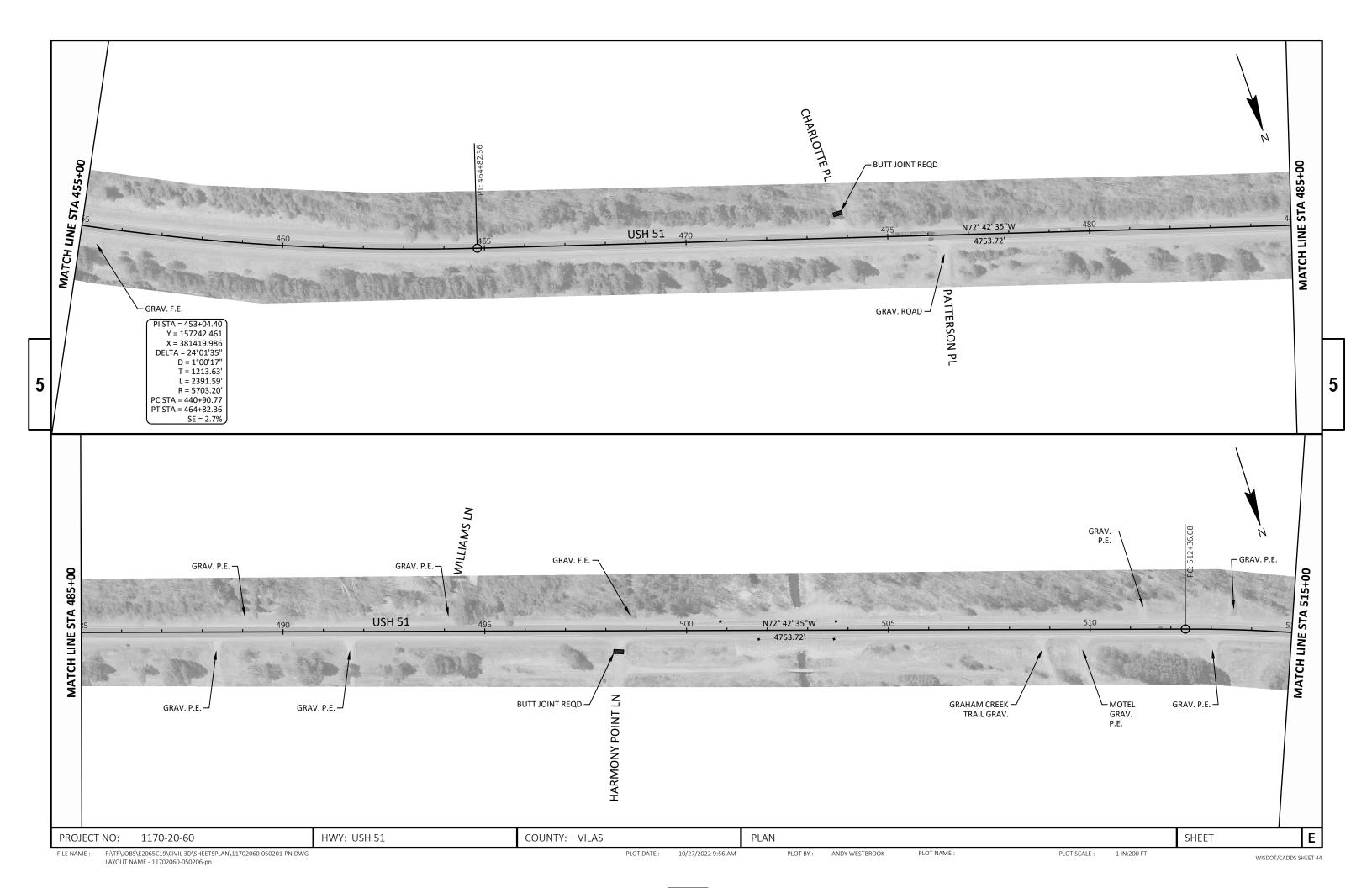


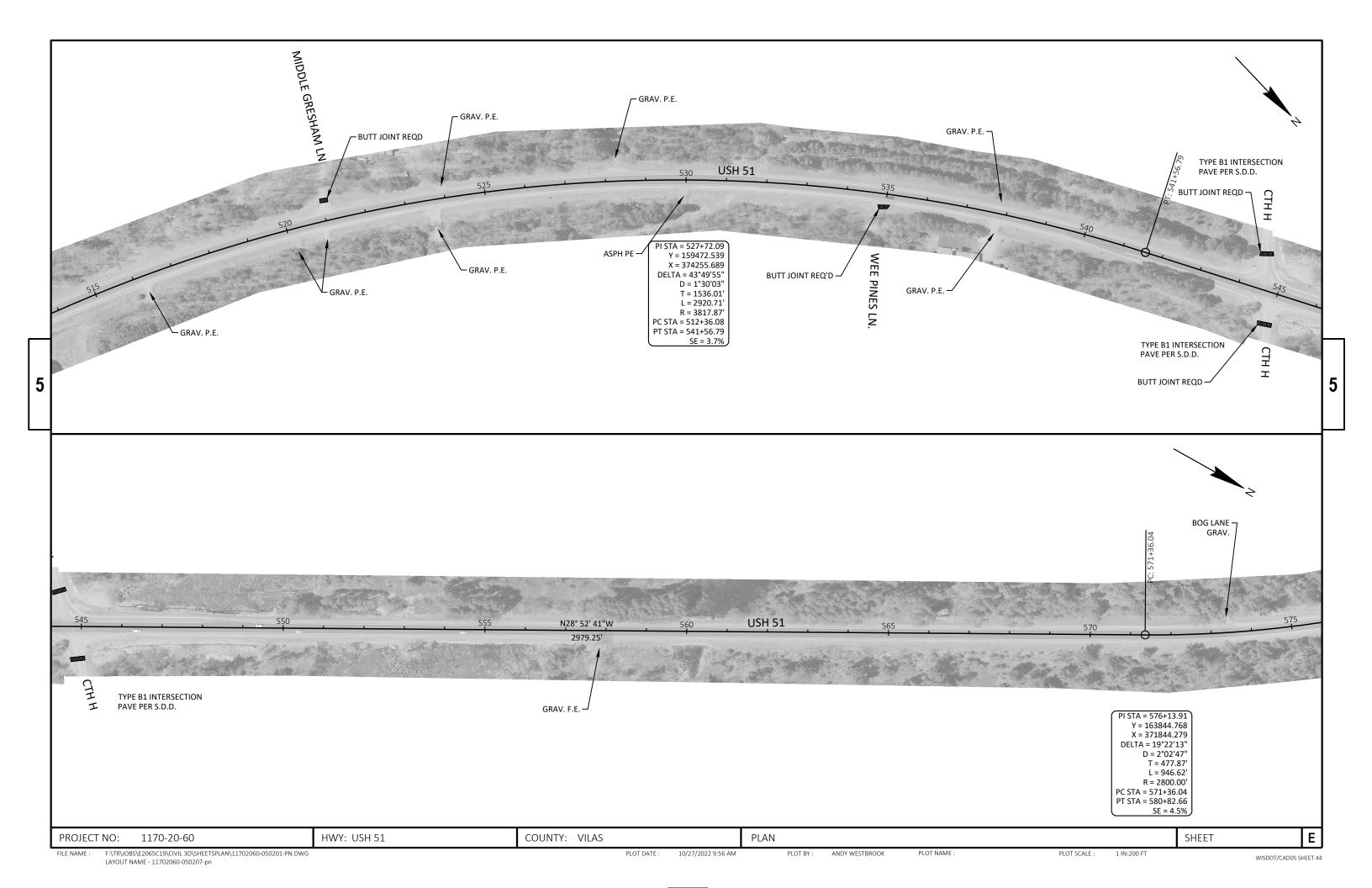


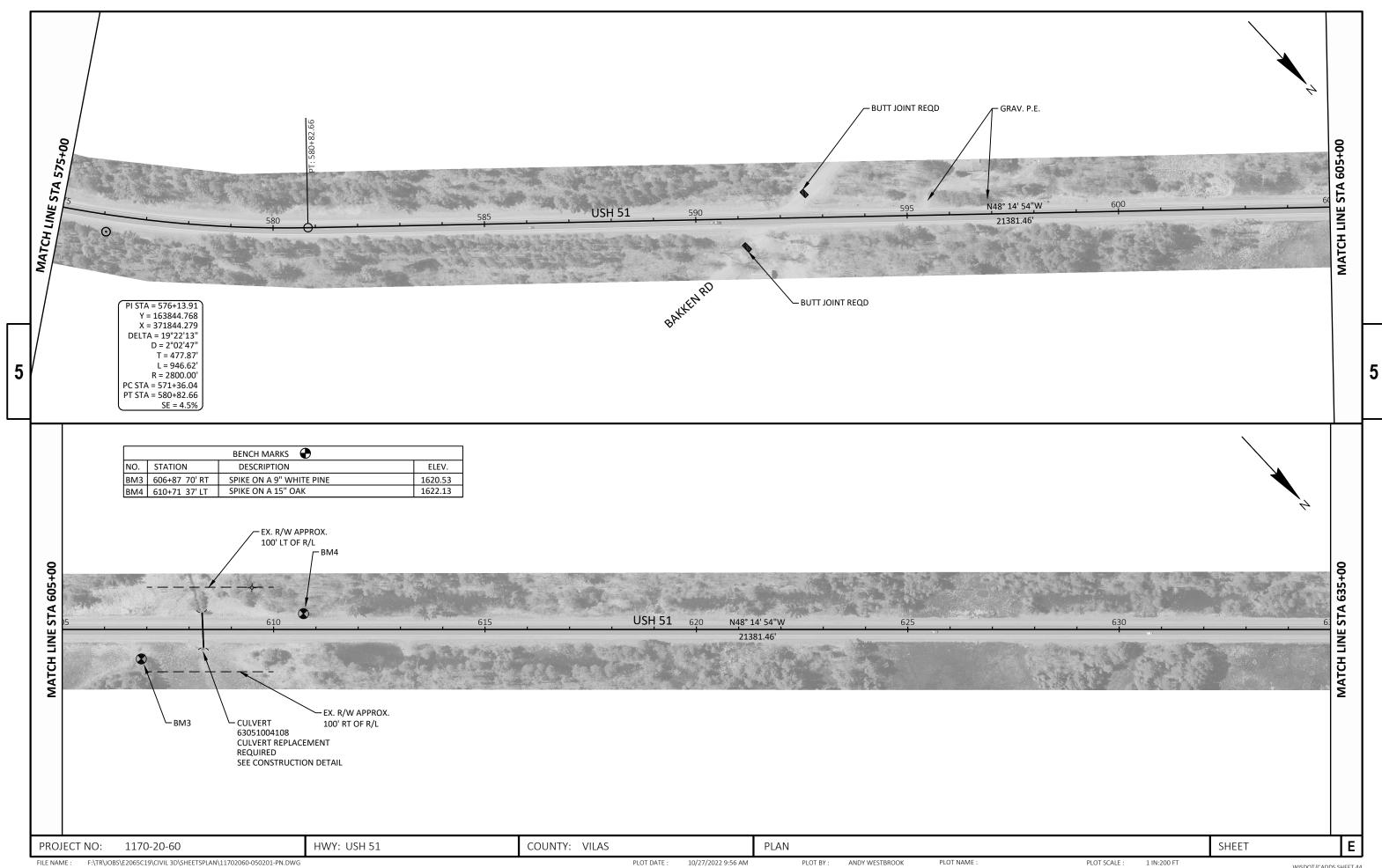
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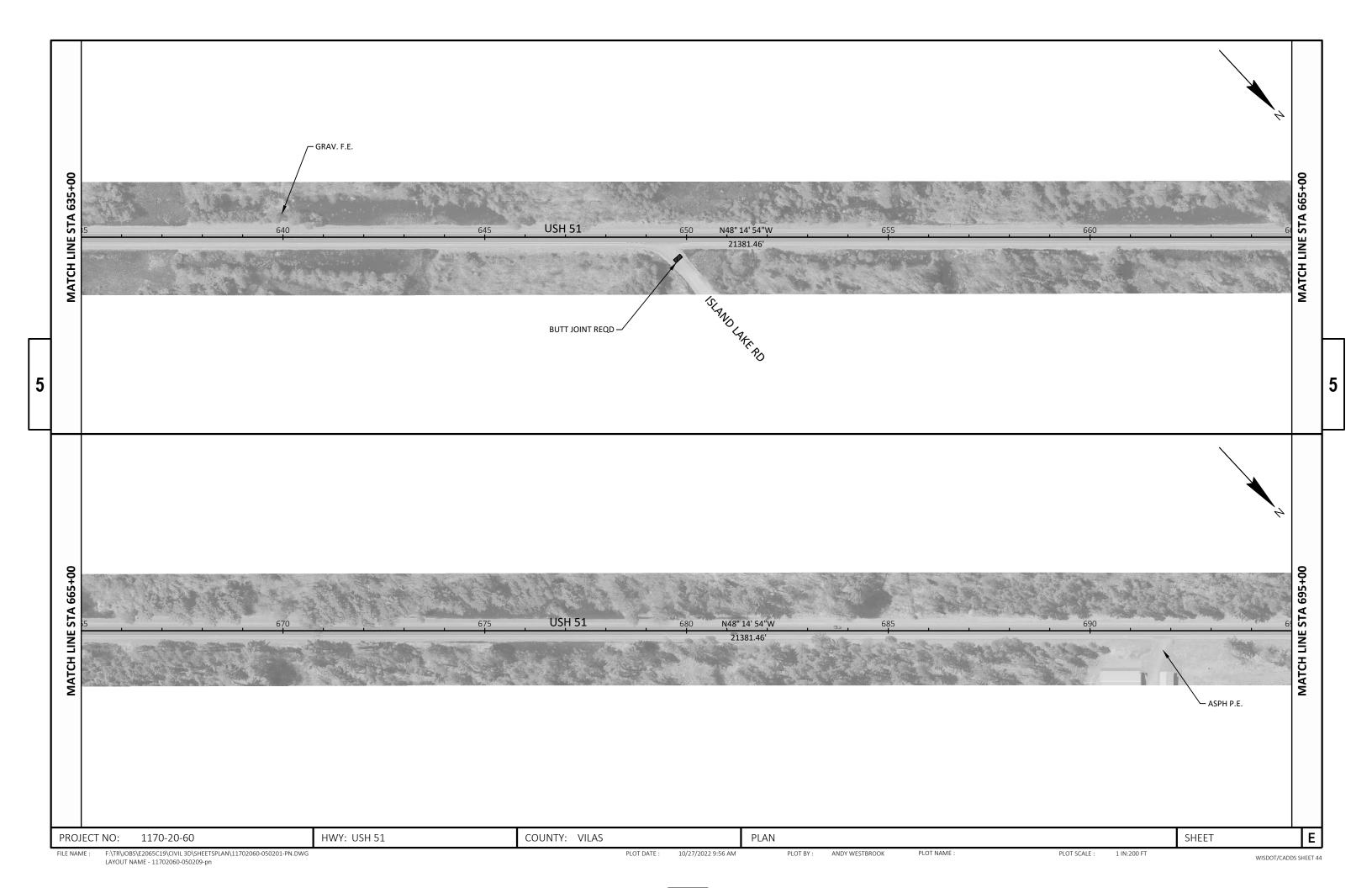
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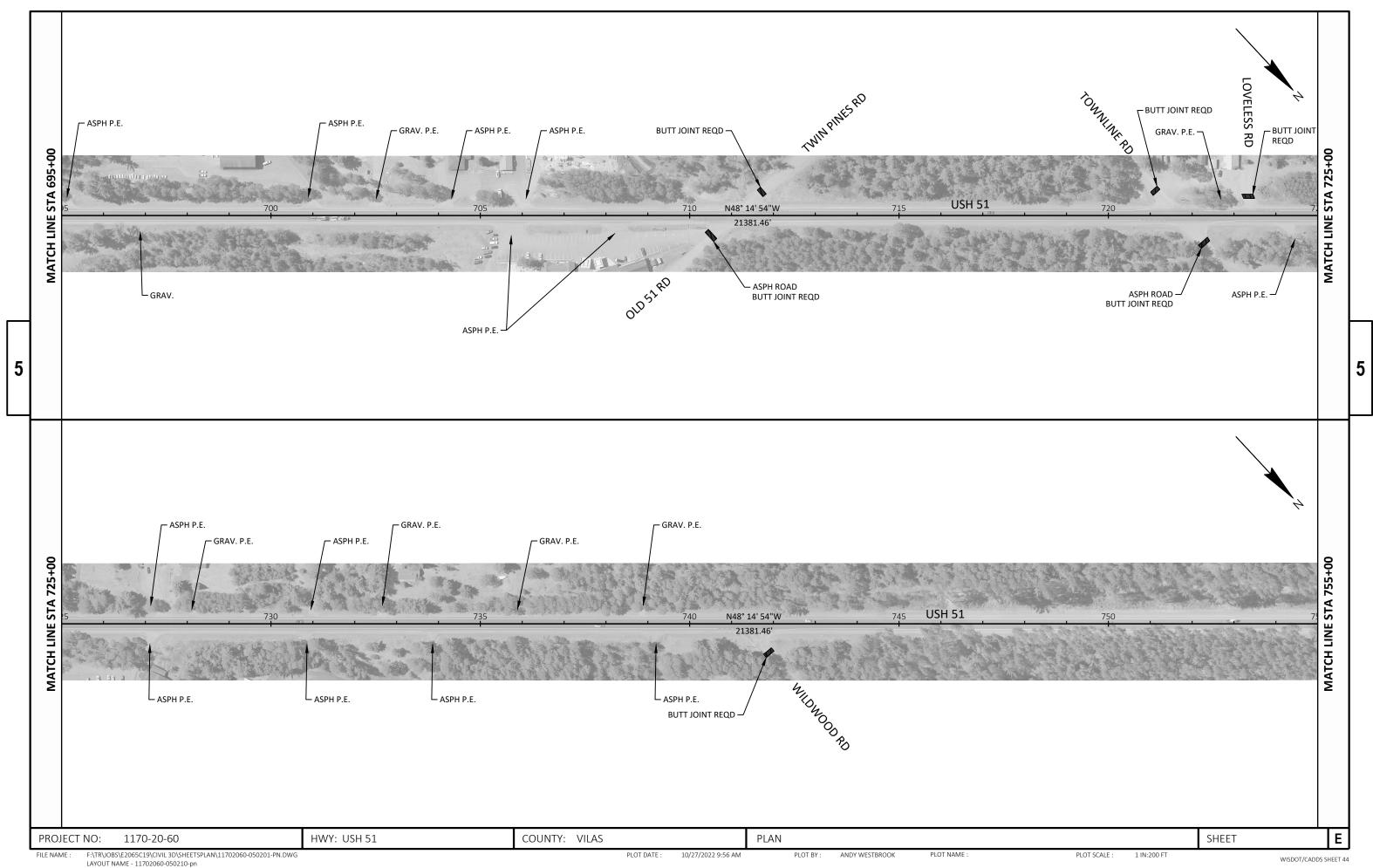


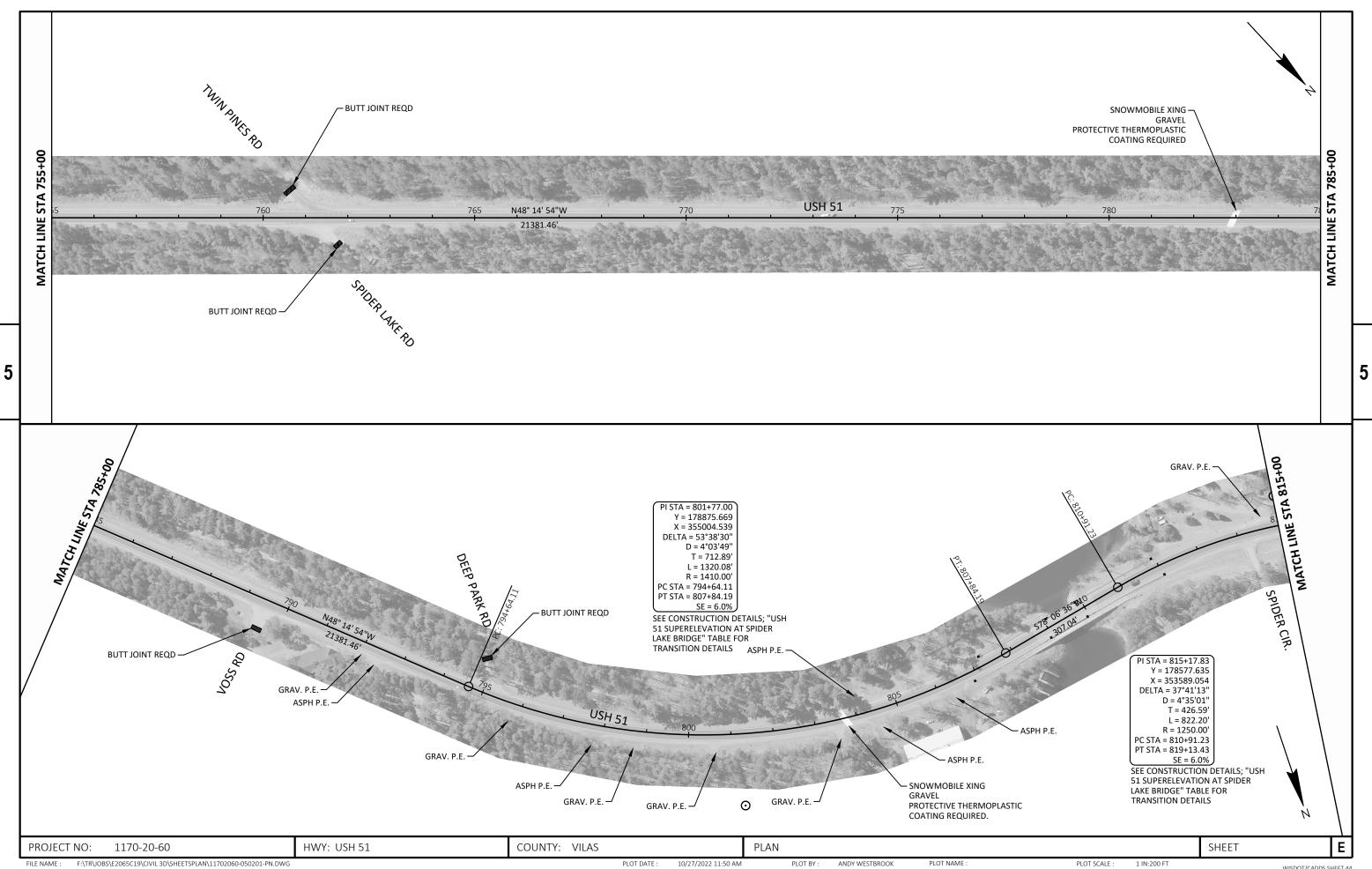




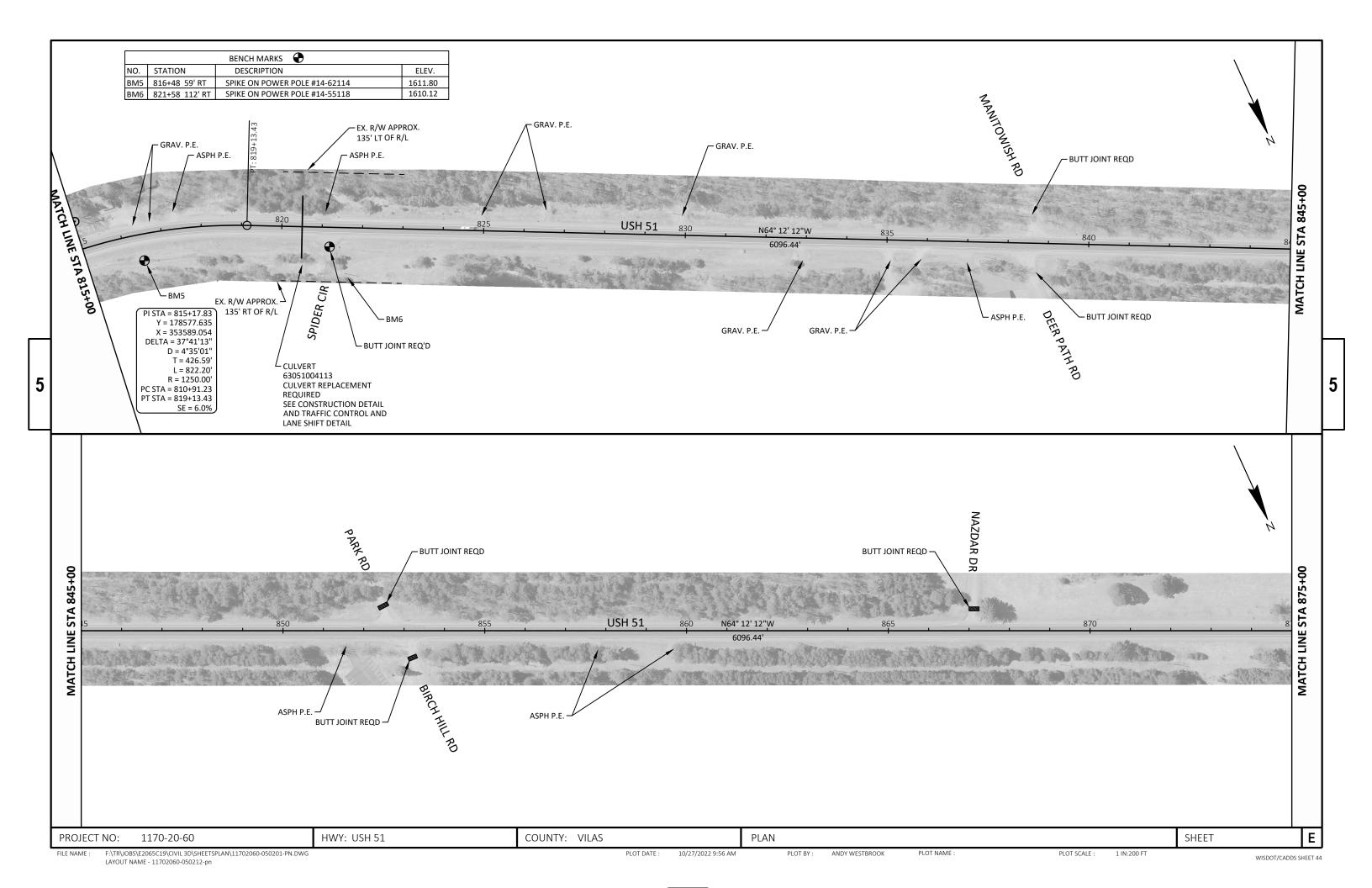
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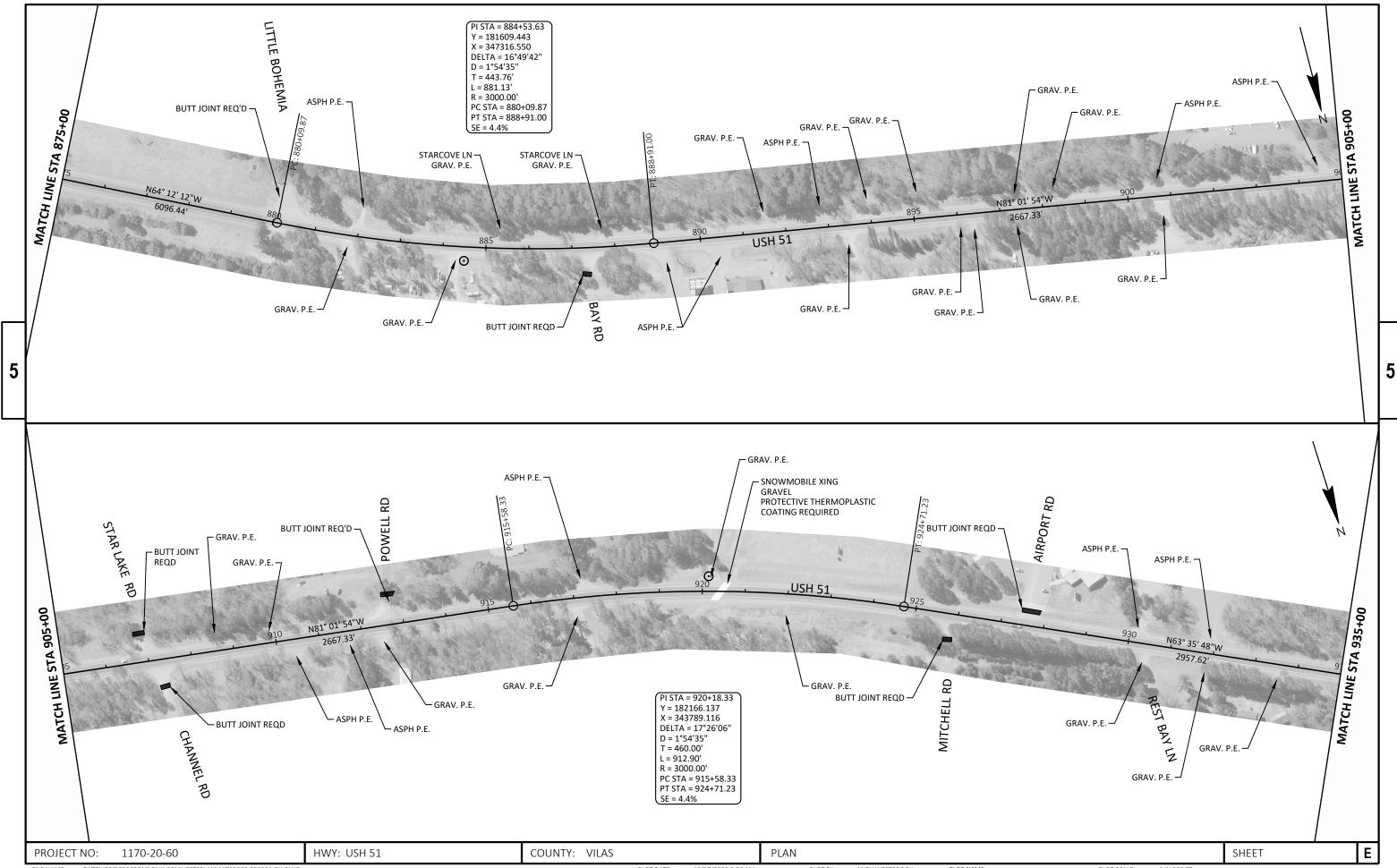






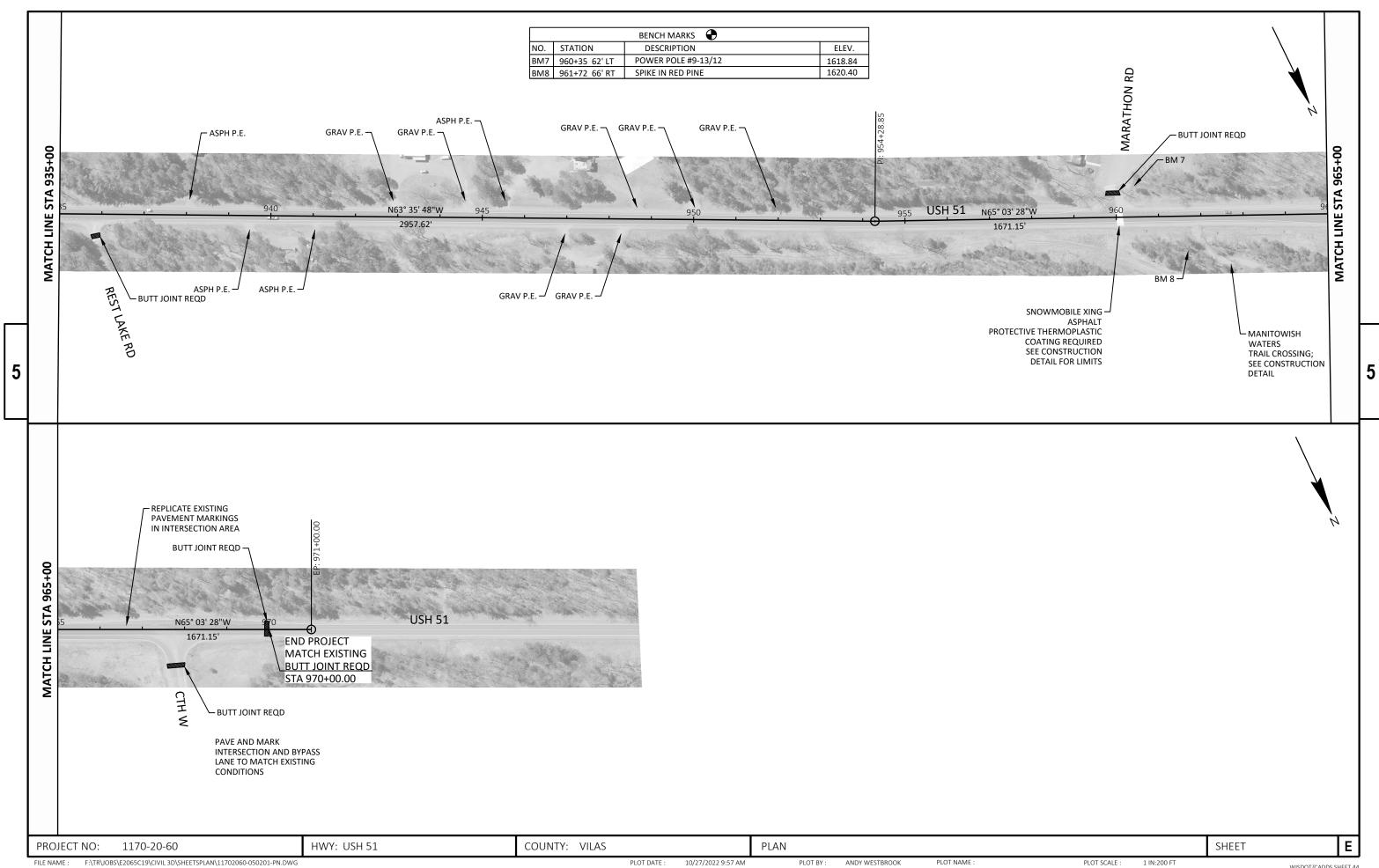
LAYOUT NAME - 11702060-050211-pn





FILE NAME : F;\TR\JOBS\E2065C19\CIVIL 3D\SHEETSPLAN\11702060-050201-PN.DWG PLOT DATE : 10/27/2022 9:56 AM PLOT BY : ANDY WESTBROOK PLOT NAME : PLOT NAME : 1 IN:200 FT LAYOUT NAME - 11702060-050213-pn

WISDOT/CADDS SHEET 44



WISDOT/CADDS SHEET 44 LAYOUT NAME - 11702060-050214-pn

Standard Detail Drawing List

08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E15-01	CULVERT PIPE CHECKS
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
13A10-02A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02B	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
14B29-01	SAFETY EDGE
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-22A	PERMANENT LONGITUDINAL PAVEMENT MARKING
15C08-22B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15С11-09В	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-07A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C35-05A	PAVEMENT MARKING (INTERSECTIONS)
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-07A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-07C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
15D45-03	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL
15D48-01	TRAFFIC CONTROL, LANE SHIFT IN FLAGGING OPERATION
15D51-01	TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY

VIEW D - D FOR TYPE 1 - A

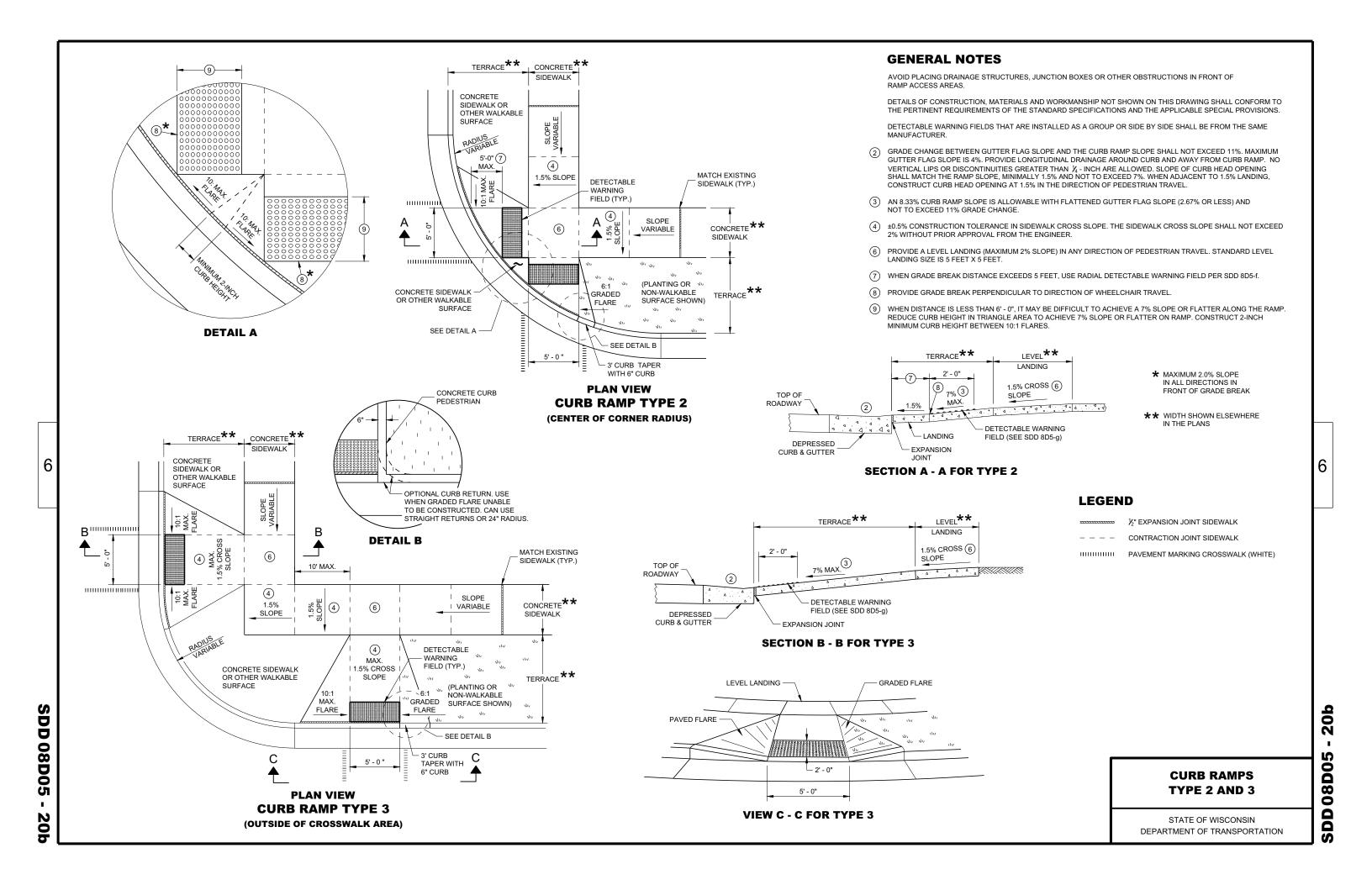
SECTION B - B FOR TYPE 1

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STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION



AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

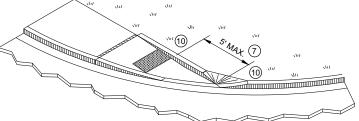
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

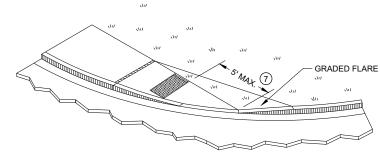
- ② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN $\frac{1}{4}$ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE
- (3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.
- (4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT
- (6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING
- (7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.
- (8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
- (10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

½" EXPANSION JOINT SIDEWALK CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



ISOMETRIC VIEW FOR TYPE 4A

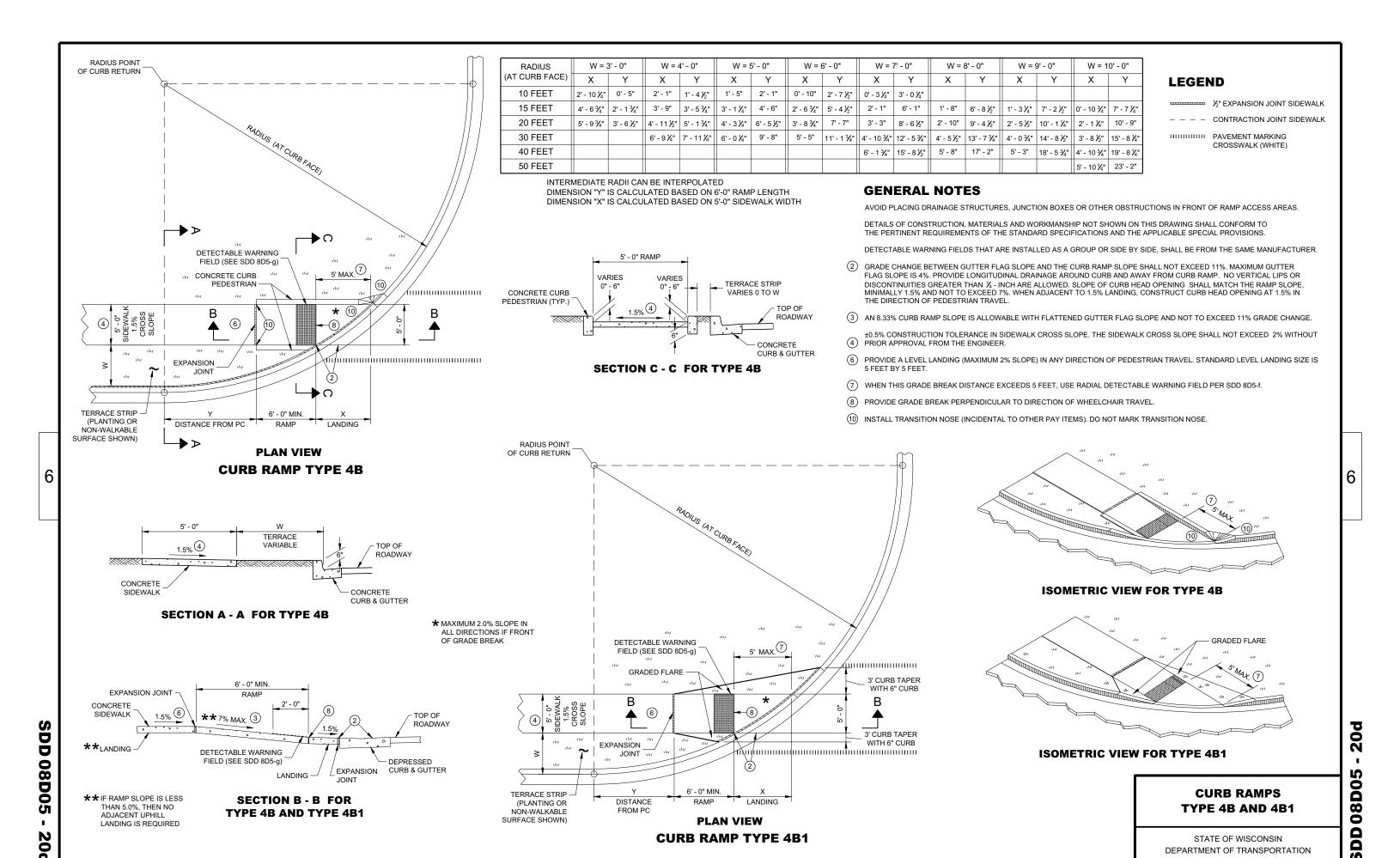


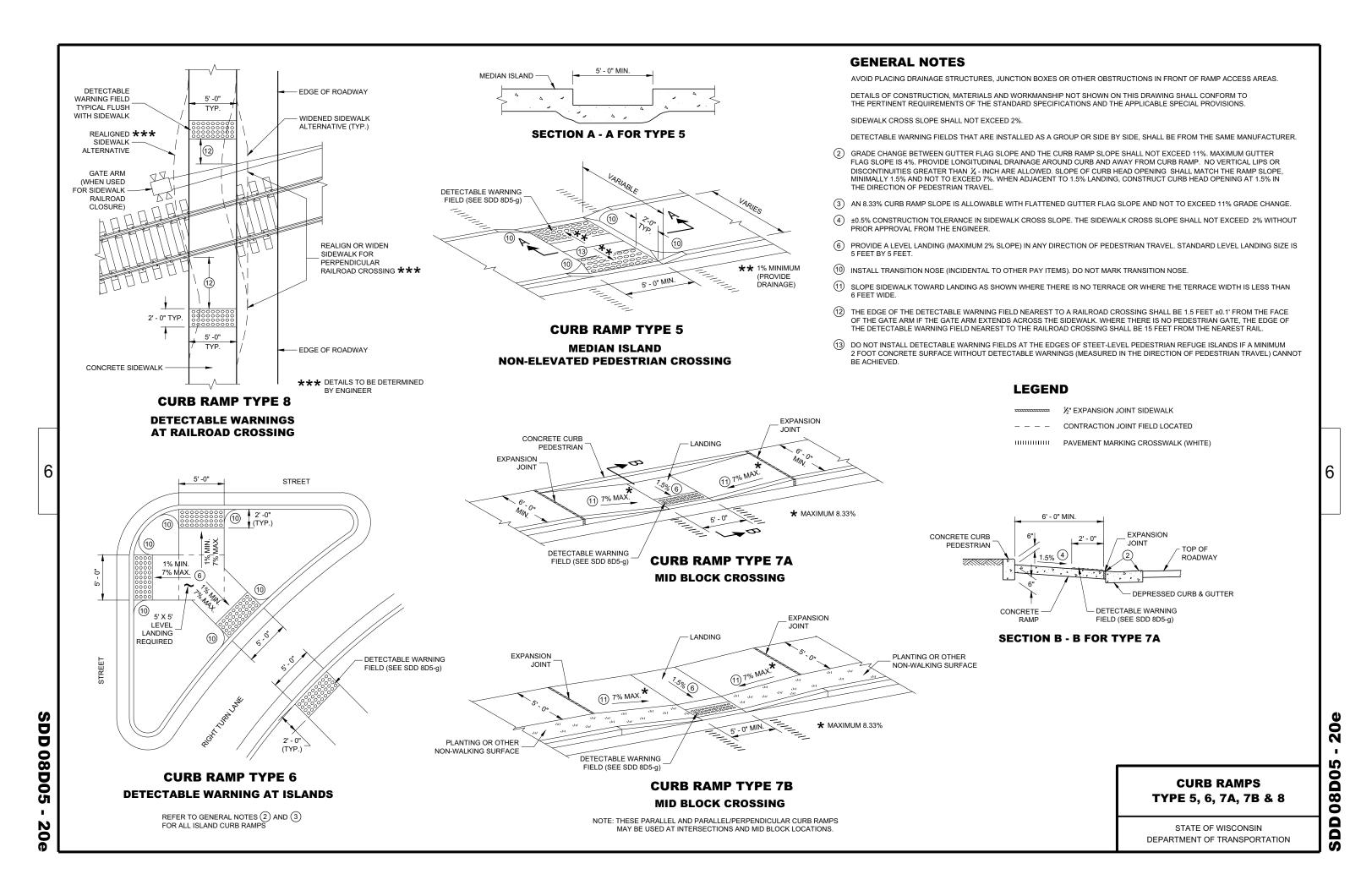
ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS TYPE 4A AND 4A1

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

20 08D0 SDD





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08D05

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RADIAL DETECTABLE WARNING

IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO

LANDING IS REQUIRED

ADJACENT UPHILL

FIELD (SEE SDD 8D5-a)

SECTION B - B FOR TYPE 4B1

DEPRESSED CURB & GUTTER

*** MAXIMUM 8.33%

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RADIAL DETECTABLE WARNING **FIELD APPLICATIONS**

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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A R	AMP
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PLAN VIEW

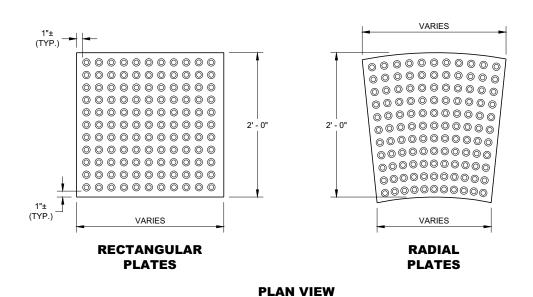
MIN. MAX. 1.6" 2.4" В 0.65" 1.5" С * 0.9" 1.4"

★ THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

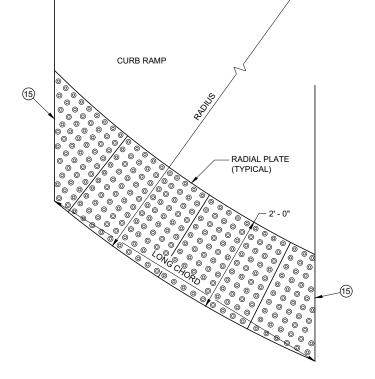


ELEVATION VIEW

TRUNCATED DOMES DETECTABLE WARNING PATTERN DETAIL



DETECTABLE WARNING FIELDS (TYPICAL)



GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER. PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER

(fs) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING

THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

PLAN VIEW RADIAL DETECTABLE WARNING FIELD ATTRIBUTES

RECTANGULAR PLATE \bigcirc 0 \bigcirc RECTANGULAR PLATE \bigcirc \bigcirc (TYPICAL) 0

PLAN VIEW RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR May 2019
DATE

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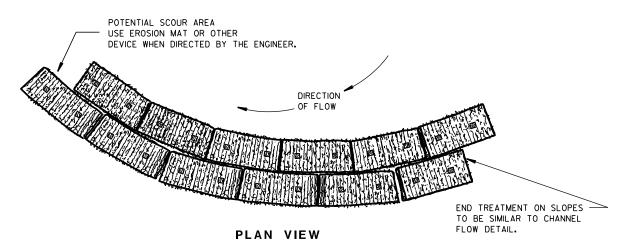
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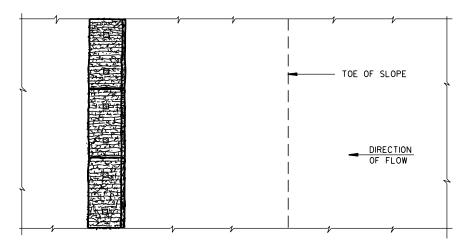
GENERAL NOTES

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.

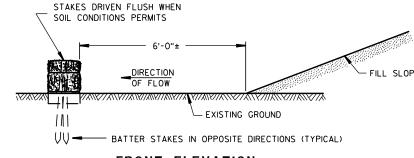
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



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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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

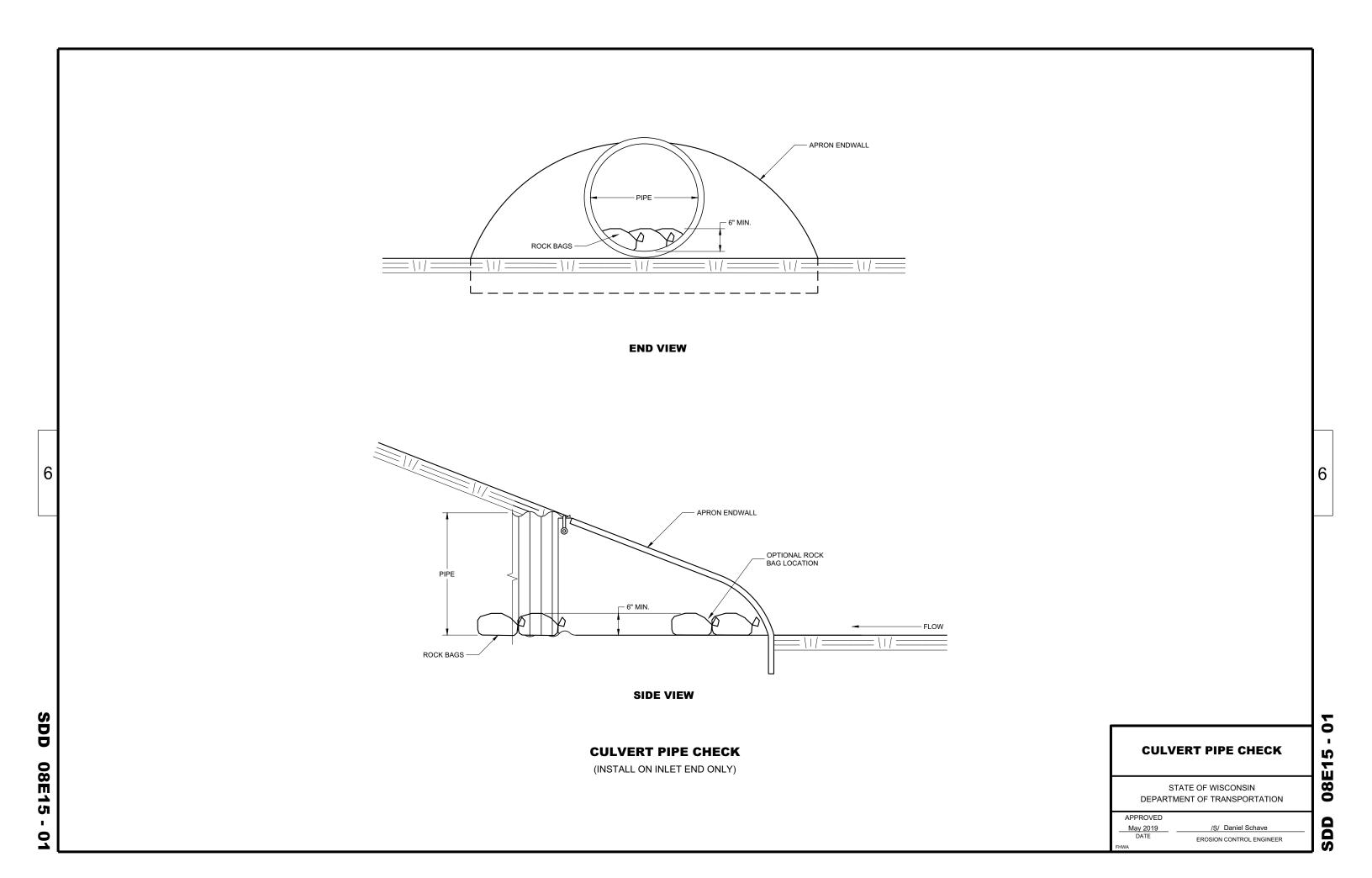
(WHEN REQUIRED BY THE ENGINEER)



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END CORNER

1/16" DIA. HOLES FOR

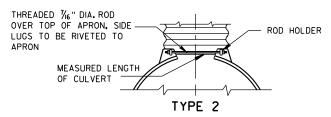
BOLTS OR RIVETS -

12" C-C MAX. SPACING

			N	METAL	APR	ON EI	NDWAL	.LS			
PIPE	MIN. T	HICK.			DIMENS	SIONS (I	nches)			APPROX.	
DIA. (IN.)	(Inch		A (±]")	B (MAX.)	H (±]")	L (±1 ½")	L1 (1)	L 2 ①	W (±2")	SLOPE	BODY
12	.064	.060	6	6	6	21	12	171/2	24	2½+o 1	1Pc.
15	.064	.060	7	8	6	26	14	213/4	30	21/2+o 1	1 Pc.
18	.064	.060	8	10	6	31	15	281/4	36	$2\frac{1}{2}$ to 1	1Pc.
21	.064	.060	9	12	6	36	18	29%	42	2½+o 1	1Pc.
24	.064	.075	10	13	6	41	18	371/4	48	21/2+0 1	1Pc.
30	.079	.075	12	16	8	51	18	521/4	60	21/2+0 1	1Pc.
36	.079	. 105	14	19	9	60	24	59¾	72	2½+o 1	2 Pc.
42	.109	. 105	16	22	11	69	24	75%	84	21/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 ¹ / ₄ †o 1	3 Pc.
54	.109	.105	18	30	12	84	30	851/2	102	2 ¹ / ₄ †o 1	3 Pc.
60	.109×	.105×	18	33	12	87	_	_	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	_	_	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	_		126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	_	_	132	11/2+0 1	3 Pc.
84	.109×	.105×	18	45	12	87	_	_	138	11/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	11/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	_	_	150	1½+0 1	3 Pc.

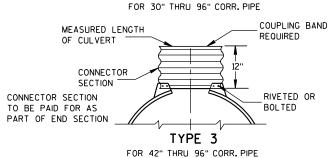
	REINFORCED CONCRETE APRON ENDWALLS									
PIPE			DIM	ENSIONS	(Inches)			APPROX.		
DIA.	T A		В	С	D	E	G	SLOPE		
12	2	4	24	48 1/8	721/8	24	2	3 to 1		
15	21/4	6	27	46	73	30	21/4	3 to 1		
18	$2\frac{1}{2}$	9	27	46	73	36	21/2	3 to 1		
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1		
24	3	91/2	431/2	30	731/2	48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

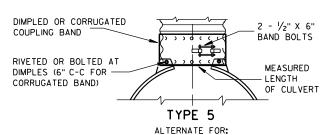
END SECTION CONNECTOR STRAP THREADED 76" DIA. ROD AROUND CULVERT & THROUGH CONNECTOR TANK TYPE CONNECTOR LUG LUG OR ALTERNATE CONNECTOR STRAP (SEE DETAIL) MEASURED LENGTH OF CULVERT



TYPE 1

FOR 12" THRU 24" CORR. PIPE





ALL SIZES CORRUGATED CIRCULAR PIPE

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

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

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

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

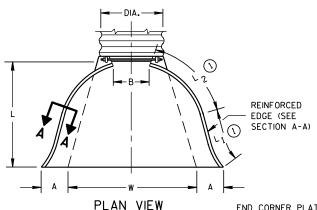
CONNECTION DETAILS

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

*MINIMUM **MAXIMUM

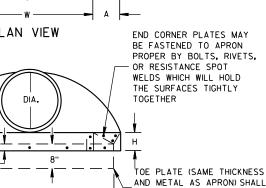
OPTIONAL

DESIGN



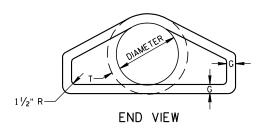
* EXCEPT CENTER PANEL

SEE GENERAL NOTES

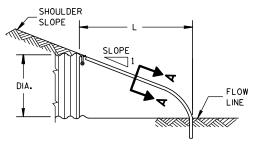


BE FURNISHED WHEN CALLED

FOR ON THE PLANS

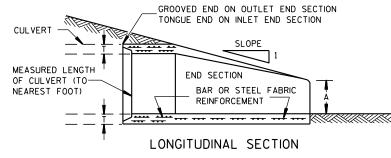


PLAN

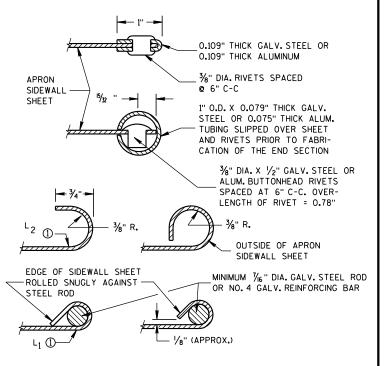


END VIEW





CONCRETE ENDWALLS



SECTION A-A

GENERAL NOTES

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

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

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

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

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

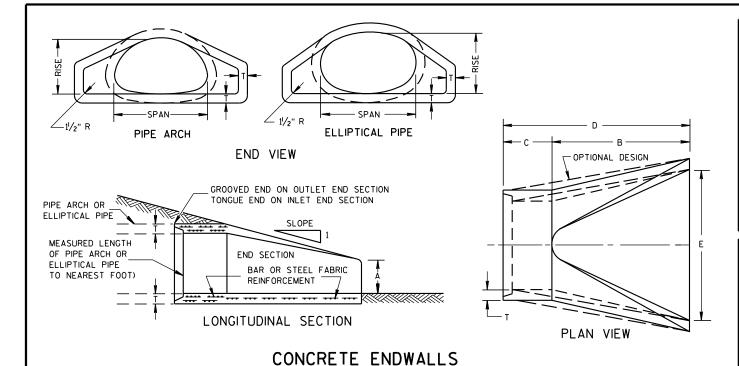
(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

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REINFORCED

- EDGE (SEE

FLOW

	2- 2/3" X 1/2" CORRUGATIONS														
EQUIV. (Inches)		MIN. 1	HICK.				APPROX								
DIA.					(Inch	nes)	A	В	Н	L	Lı	L ₂	W	APPROX.	BODY
(Inches)	SPAN	RISE	STEEL	ALUM.	(±]")	(MAX.)	(±]")	(±1 ½")	①	<u> </u>	(±2")	JLOI L			
15	17	13	.064	.060	7	9	6	19	14	16	30	2½+o 1	1Pc.		
18	21	15	.064	.060	7	10	6	23	14	193/8	36	21/2+o 1	1Pc.		
21	24	18	.064	.060	8	12	6	28	18	213/4	42	21/2 to 1	1Pc.		
24	28	20	.064	.060	9	14	6	32	18	271/2	48	21/2 to 1	1Pc.		
30	35	24	.079	.075	10	16	6	39	18	375/8	60	21/2+o 1	1Pc.		
36	42	29	.079	.075	12	18	8	46	24	45%	75	21/2+o 1	1Pc.		
42	49	33	.109	.105	13	21	9	53	24	54¾	85	21/2+o 1	2 Pc.		
48	57	38	.109	.105	18	26	12	63	24	68	90	21/2+o 1	3 Pc.		
54	64	43	.109	.105	18	30	12	70	24	723/4	102	2 ¹ / ₄ +o 1	3 Pc.		
60	71	47	.109*	. 105*	18	33	12	77	30	82 ¹ / ₄	114	2 ¹ / ₄ +o 1	3 Pc.		
66	77	52	.109 *	. 105*	18	36	12	77	ı	-	126	2 to 1	3 Pc.		
72	83	57	. 109*	. 105*	18	39	12	77	_	_	138	2 to 1	3 Pc.		

				3	3" X 1	ı" COR	RUGA	TIONS					
EQUIV.	(Inches) MIN. THICK. (Inches)		A							APPROX. SLOPE	BODY		
(Inches)	SPAN	RISE	STEEL	ALUM.	(±1")	(MAX.)	(±1")	(±1 ½")	①	0	(±2")	320.2	
48	53	41	.109	.105	18	26	12	63	24	723/4	90	2½+o 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	821/4	102	2 to 1	2 Pc.
60	66	51	.109*	. 105*	18	33	12	77	_	_	114	11/2+0 1	3 Pc.
66	73	55	.109 ×	. 105*	18	36	12	77	_	_	126	1½+o 1	3 Pc.
72	81	59	. 109*	. 105*	18	39	12	77	_	_	138	2 to 1	3 Pc.
78	87	63	.109×	. 105*	22	38	12	77	_	_	148	11/2+0 1	3 Pc.
84	95	67	.109*	. 105*	22	34	12	77	_	_	162	11/2+0 1	3 Pc.
90	103	71	.109*	. 105*	22	38	12	77	_	_	174	1½+o 1	3 Pc.
96	112	75	.109*	. 105*	24	40	12	77	_	_	174	11/2 to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

THREADED 7/6" DIA. ROD OVER TOP OF APRON, SIDE

LUGS TO BE RIVETED TO

* EXCEPT CENTER PANEL SEE GENERAL NOTES

ROD HOLDER

COUPLING BAND

REQUIRED

RIVETED OR

BOLTED

		REINF	ORCE	CON	ICRET	E PIP	E AR	CH				
EQUIV.												
DIA. (Inches)	** SPAN	** RISE	T	A	В	С	D	E	SLOPE			
24	29	18	3	81/2	39	33	72	48	3 to 1			
30	36	22	31/2	91/2	50	46	96	60	3 to 1			
36	44	27	4	111/8	60	36	96	72	3 to 1			
42	51	31	41/2	1513/16	60	36	96	78	3 to 1			
48	58	36	5	21	60	36	96	84	3 to 1			
54	65	40	51/2	251/2	60	36	96	90	3 to 1			
60	73	45	6	31	60	36	96	96	3 to 1			
72	88	54	7	31	60	39	99	120	2 to 1			
84	102	62	8	281/2	83	19	102	144	2 to 1			

	REI	NFORC	ED C	ONCR	ETE E	LLIPT	ICAL	PIPE	
EOUIV.			APPROX.						
DIA. (Inches)	** SPAN	** RISE	T	A	В	С	D	E	SLOPE
24	30	19	31/4	81/2	39	33	72	48	3 to 1
30	38	24	3¾	91/2	54	18	72	60	3 to 1
36	45	29	41/2	111/8	60	24	84	72	21/2 to 1
42	53	34	5	15¾	60	36	96	78	21/2+o 1
48	60	38	51/2	21	60	36	96	84	21/2+0 1
54	68	43	6	251/2	60	36	96	90	2½+o 1
60	76	48	61/2	30	60	36	96	96	2½to 1

**NOMINAL SIZE

GENERAL NOTES

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

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

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

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

(1) FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

TYPE 3 FOR 64" X 43" THRU 112" X 75" PIPE ARCH OUTSIDE OF APRON DIMPLED OR SIDEWALL SHEET 2 -1/2" X 6" CORRUGATED-BAND BOLTS COUPLING BAND RIVETED OR BOLTED AT GALV. REINFORCING BAR MEASURED LENGTH DIMPLES (6" C-C FOR -CORRUGATED BAND) OF PIPE ARCH TYPE 5 ALTERNATE FOR: ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL.

APRON ENDWA	LLS FOR
PIPE ARCH	AND
ELLIPTICAL	PIPE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED				
11/30/94	/S/ R	ory	L. Rhinesm	ith
DATE	CHIEF ROAD	WAY	DEVELOPMEN	T ENGINEER
FHWA				

6	SECTION A-A)
	PLAN VIEW END CORNER PLATES MAY BE FASTENED TO APRON PROPER BY
	BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER END CORNER PLATE N6" DIA. HOLES FOR 8"
	BOLTS OR RIVETS 12" C-C MAX. SPACING W + 10" (RISE 23" THRU 29") W + 20" (RISE 33" THRU 75") END VIEW TOE PLATE (SAME THICKNESS AND METAL AS APRON) SHALL BE FURNISHED WHEN CALLED FOR ON THE PLANS
	SHOULDER SLOPE SLOPE

SIDE ELEVATION

METAL ENDWALLS

D

D

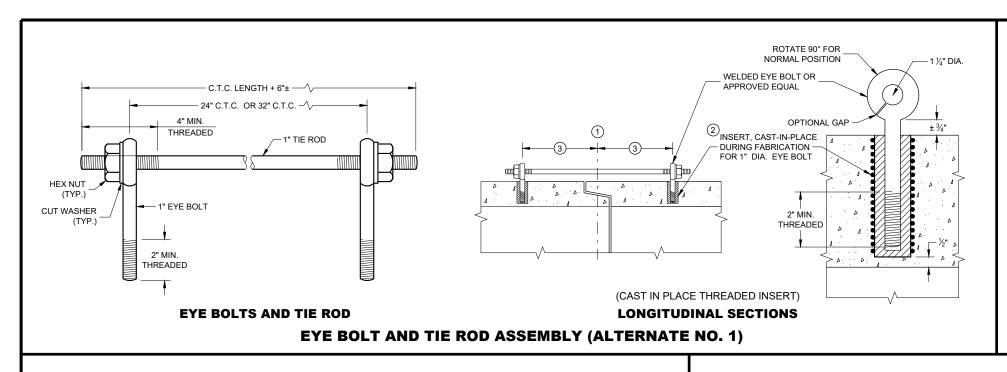
MEASURED LENGTH OF PIPE ARCH 0.109" THICK GALV. STEEL OR 0.109" THICK ALUMINUM FOR 17" X 13" THRU 112" X 75" PIPE ARCH 3/8" DIA. RIVETS SPACED APRON SIDEWALL AT 6" C-C MEASURED LENGTH SHEET OF PIPE ARCH 1" O.D. X O.079" THICK GALV. STEEL OR 0.075" THICK ALUM. CONNECTOR TUBING SLIPPED OVER SHEET SECTION AND RIVETS PRIOR TO FABRI-CATION OF THE END SECTION CONNECTOR SECTION TO BE PAID FOR AS 38" DIA. X 1/2" - GALV. STEEL PART OF END SECTION OR ALUM. BUTTONHEAD RIVETS SPACED AT 6" C-C. OVER-LENGTH OF RIVET = 0.78" EDGE OF SIDEWALL SHEET MINIMUM 7/6" DIA. GALV. -ROLLED SNUGLY AGAINST STEEL ROD OR 10M STEEL ROD

SECTION A-A

- 1/8" (APPROX.)

CONNECTION DETAILS

TYPE 2



GENERAL NOTES

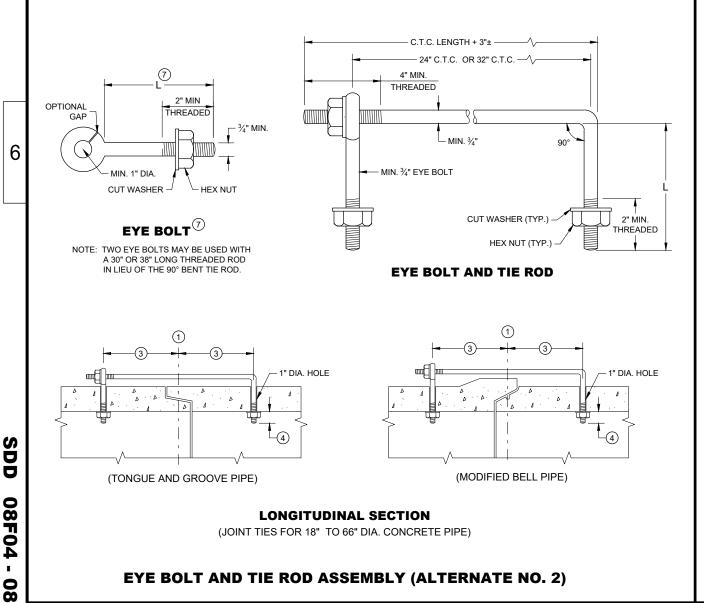
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

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

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

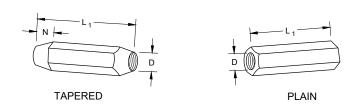
- 1) CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- 2 THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.
- (3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.
- 4 BOLT PROJECTION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



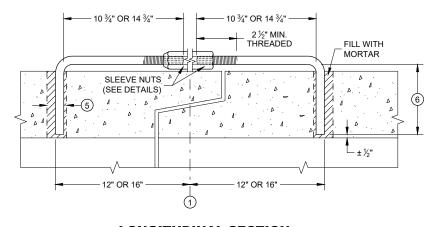
TIE ROD DIAMETER DIAMETER 5 12 - 60 5

ADJUSTABLE TIE ROD TABLE

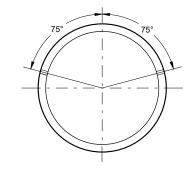
DIMENSIONS SHOWN ARE IN INCHES



RIGHT AND LEFT THREADS **SLEEVE NUTS**

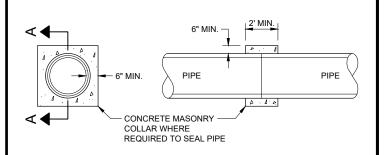


LONGITUDINAL SECTION ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



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

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

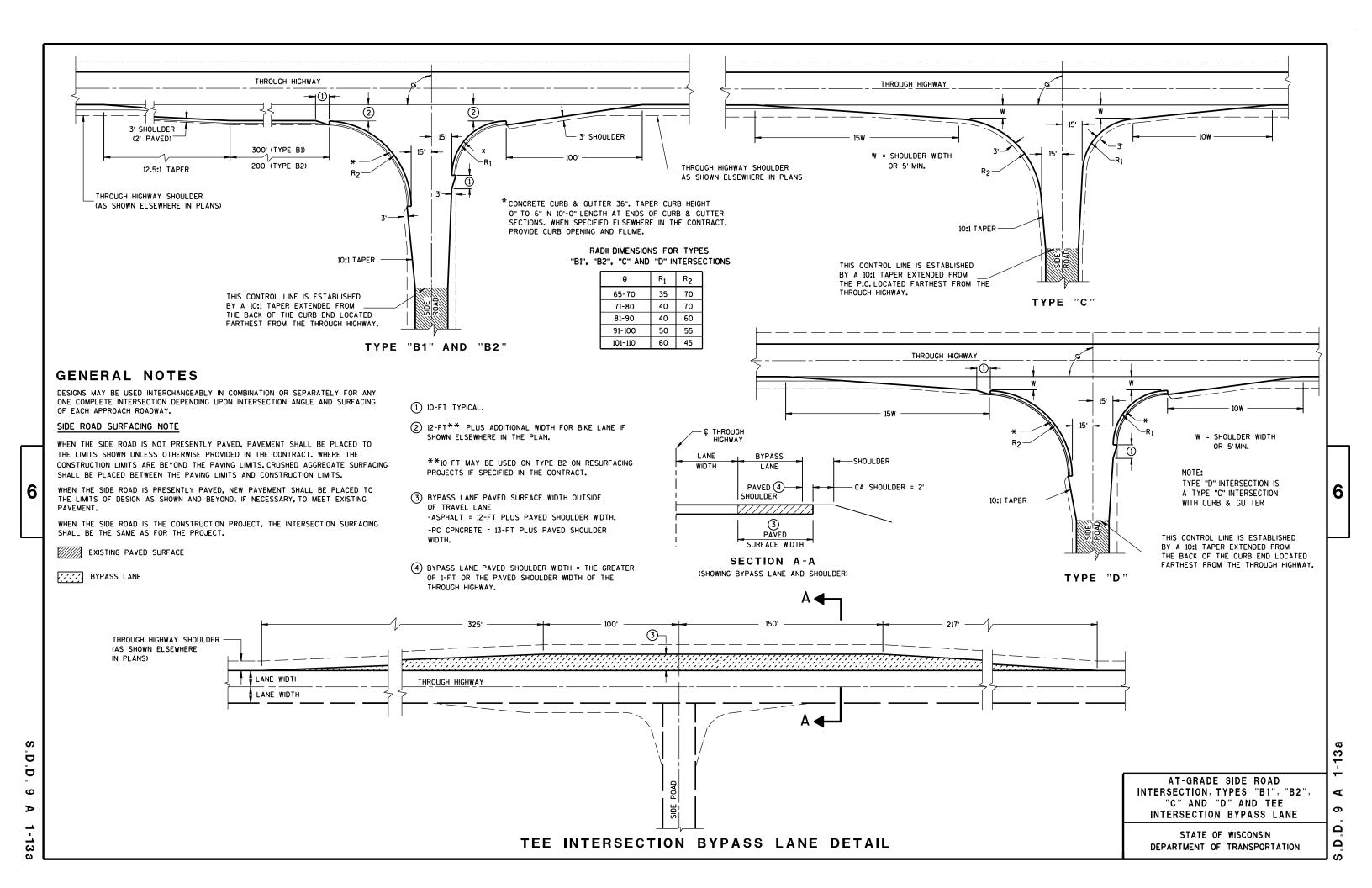
JOINT TIES FOR CONCRETE PIPE AND CONCRETE **COLLAR DETAIL**

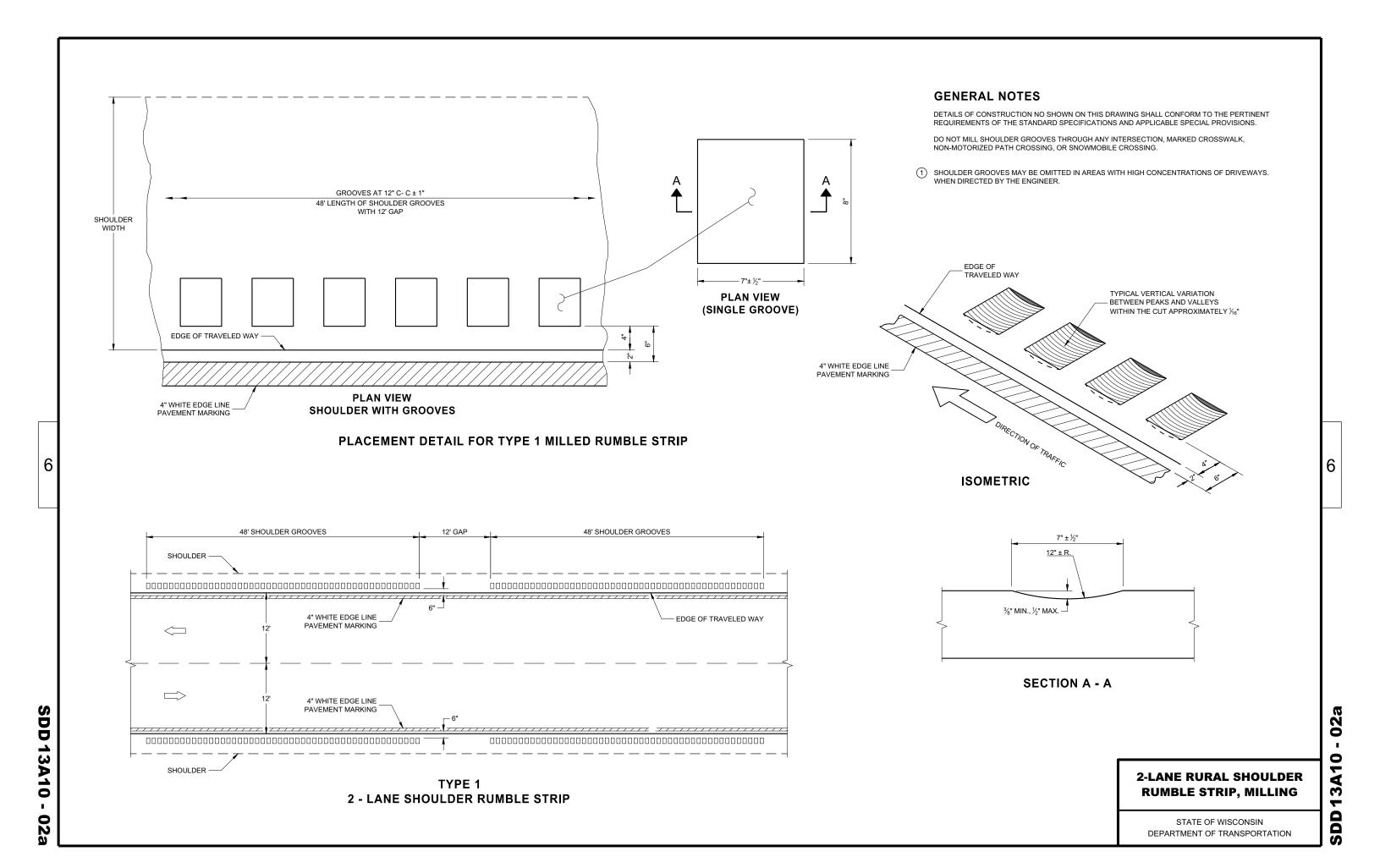
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED /S/ Rodney Taylor

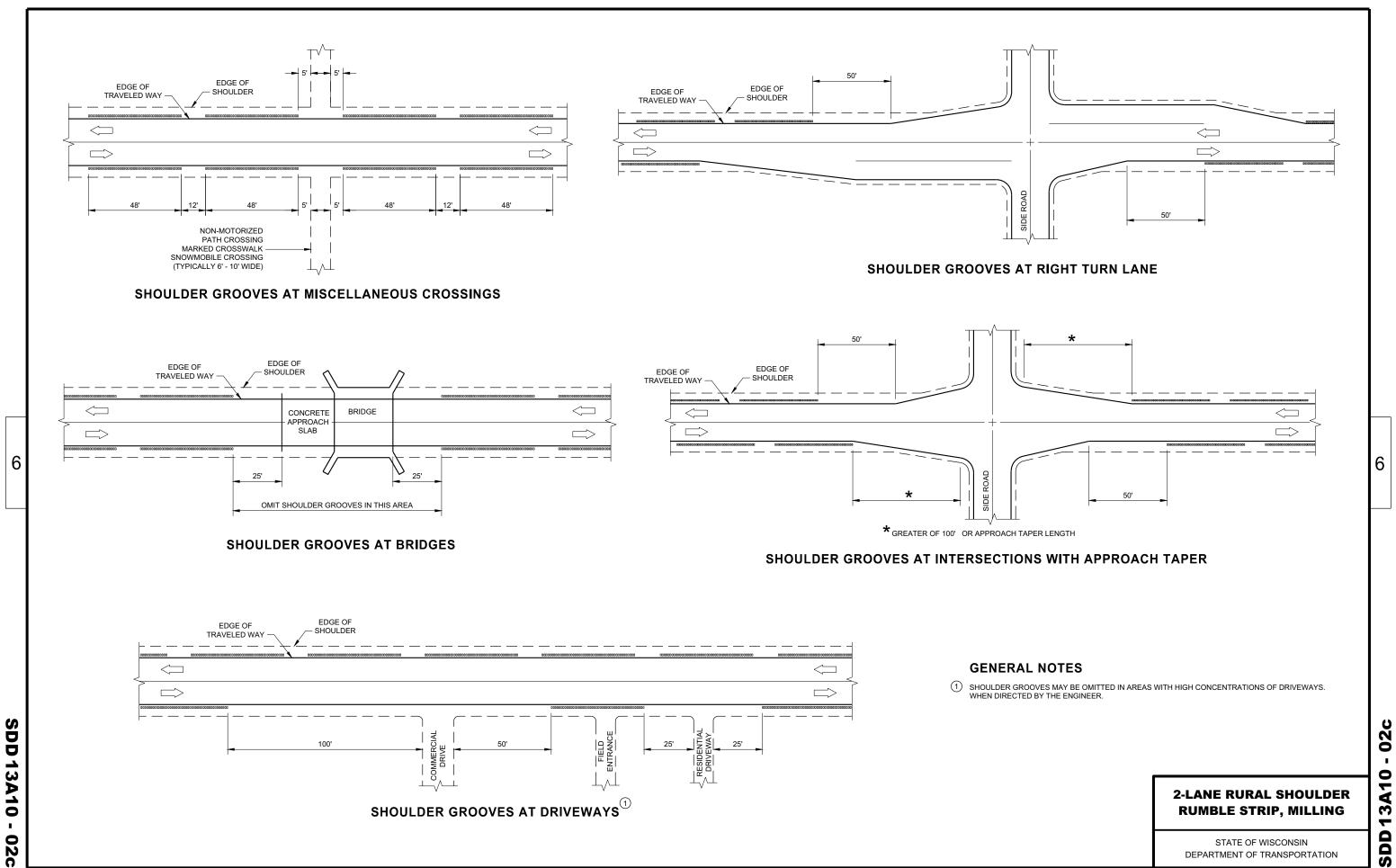
ROADWAY STANDARDS DEVELOPMENT
ENGINEER November 2021 DATE

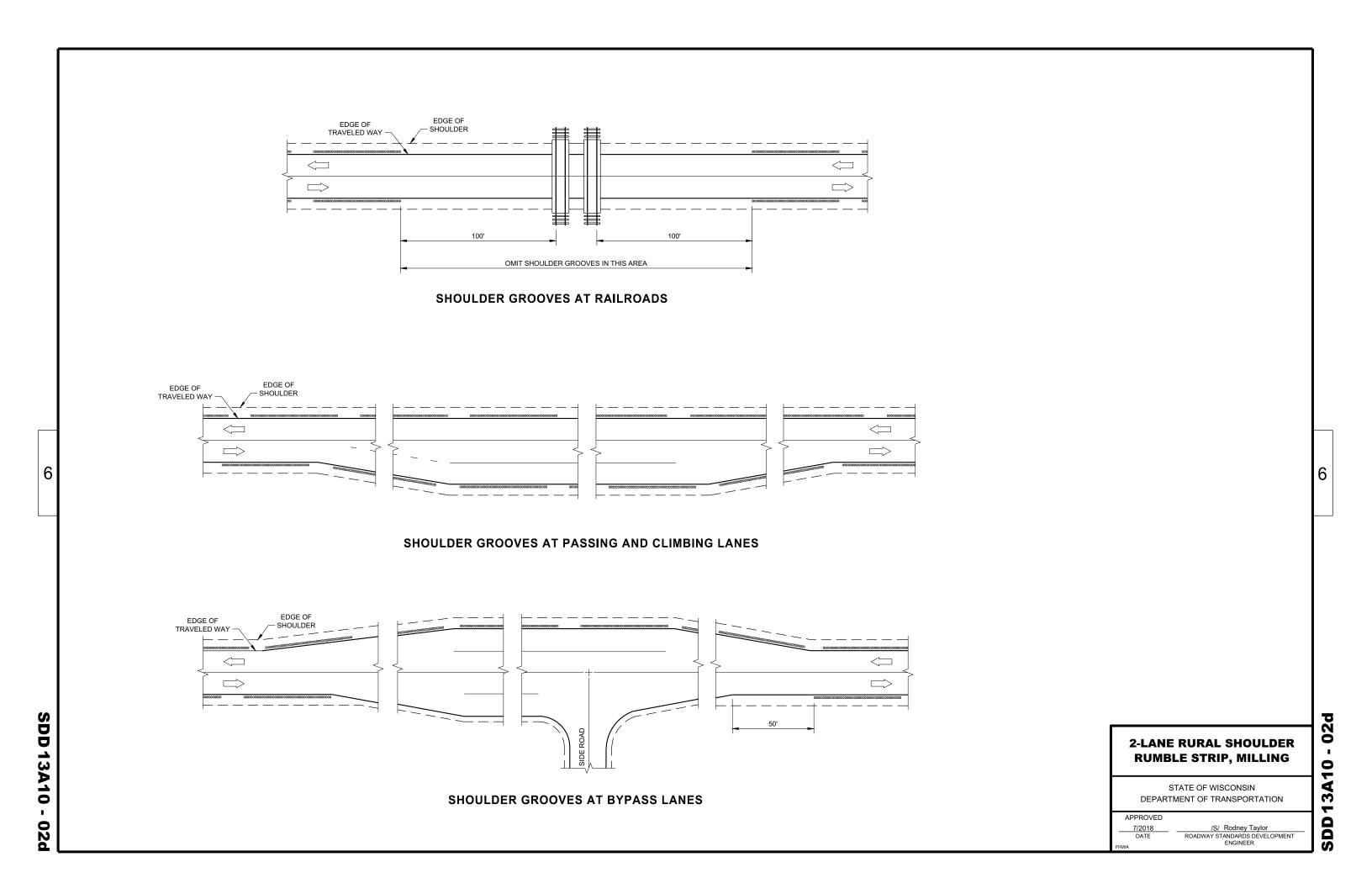
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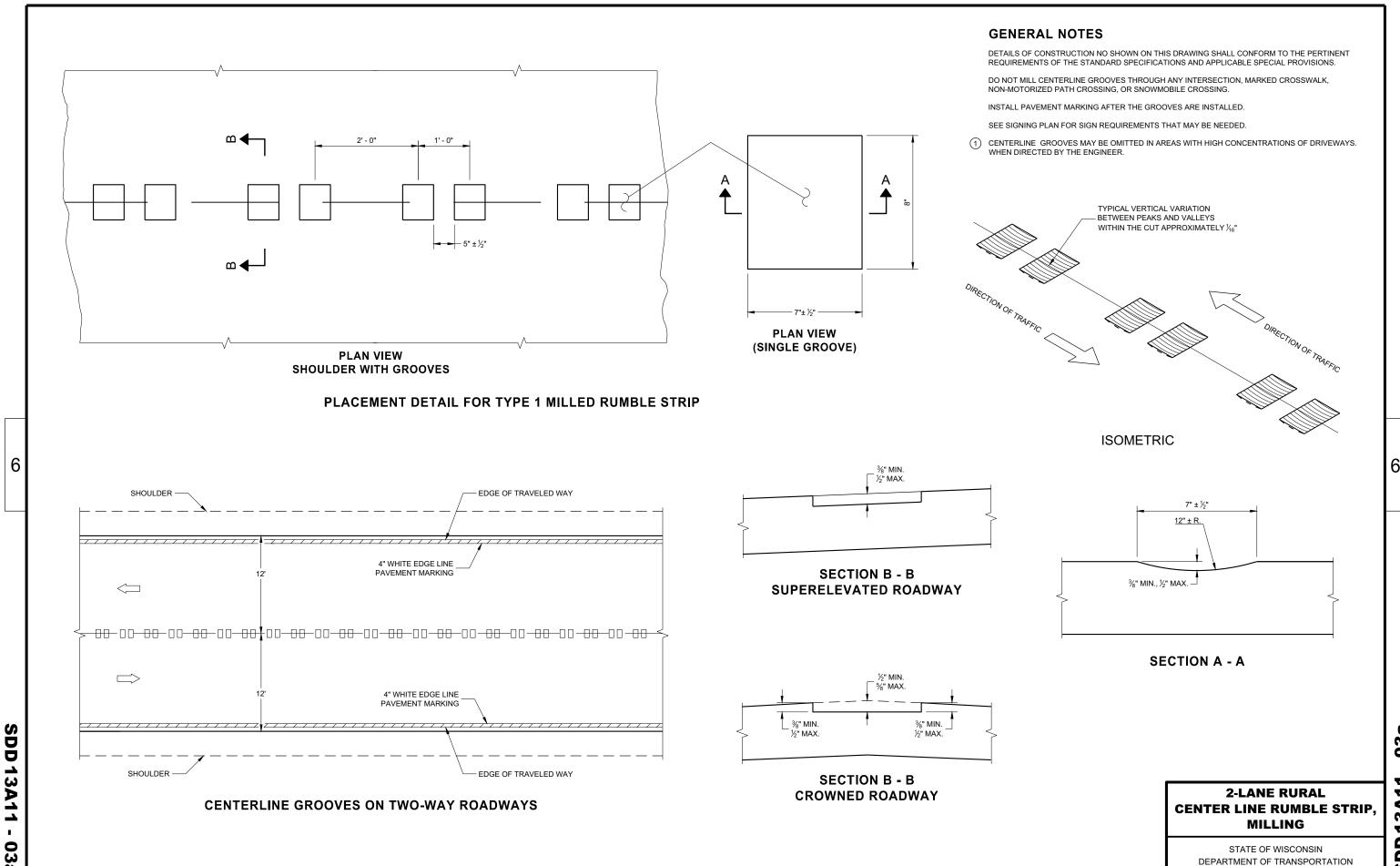




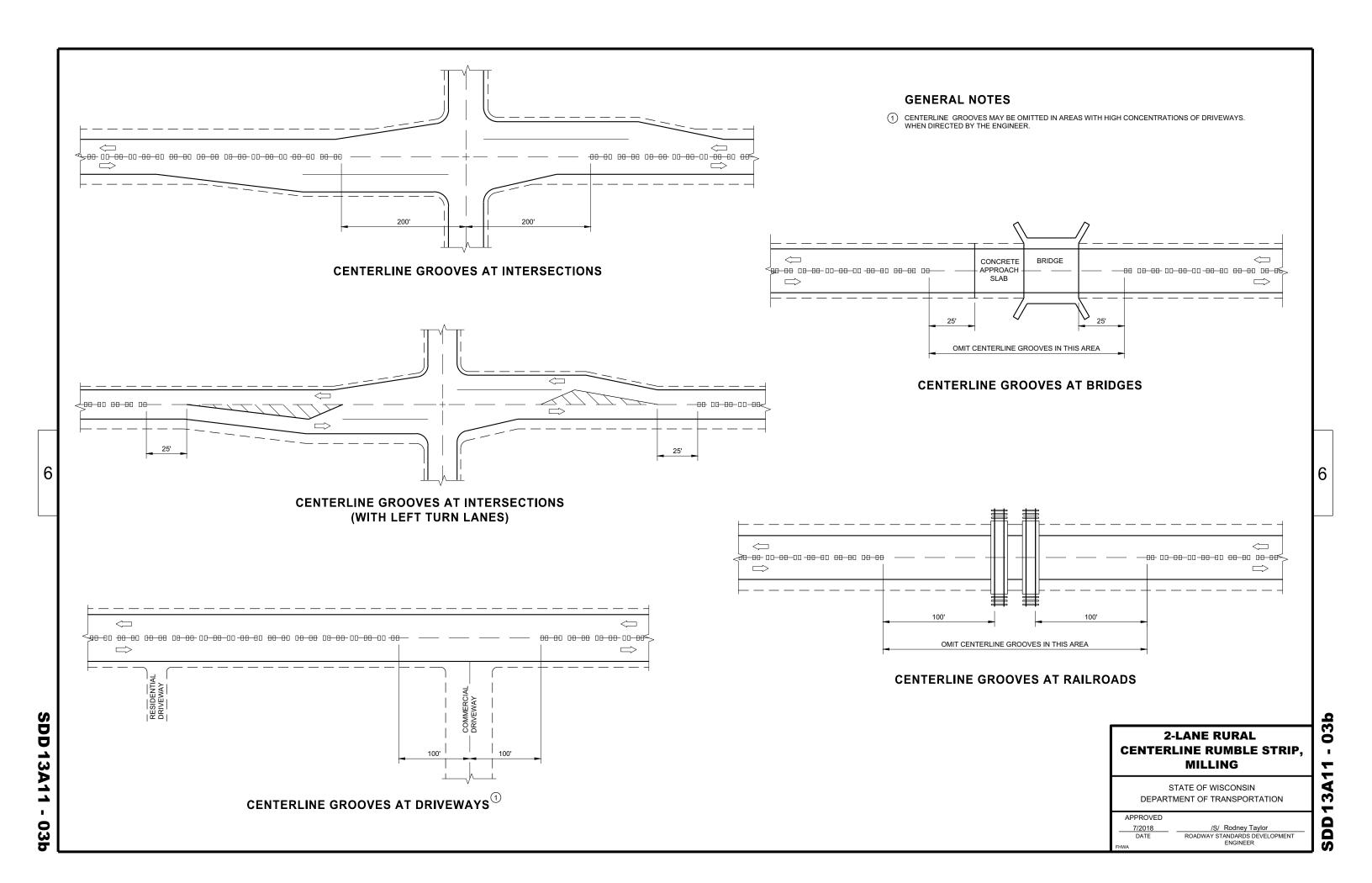
DEPARTMENT OF TRANSPORTATION



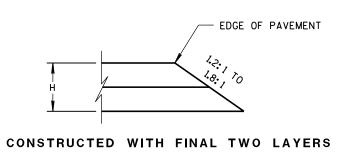


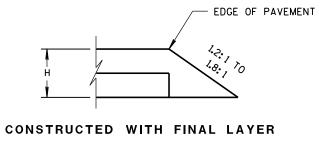


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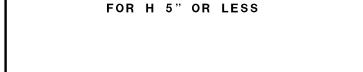


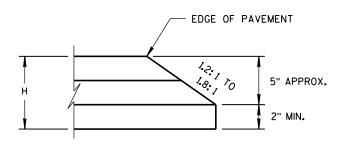






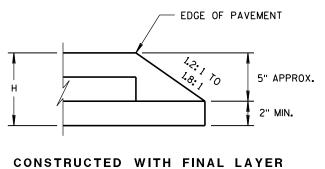
FOR H 5" OR LESS



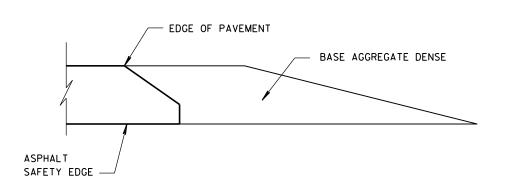


CONSTRUCTED WITH FINAL TWO LAYERS

FOR H GREATER THAN 5"



FOR H GREATER THAN 5"



FINISHED SHOULDER AGGREGATE PLACEMENT

HMA PAVEMENT AND HMA OVERLAYS

SAFETY EDGE SM

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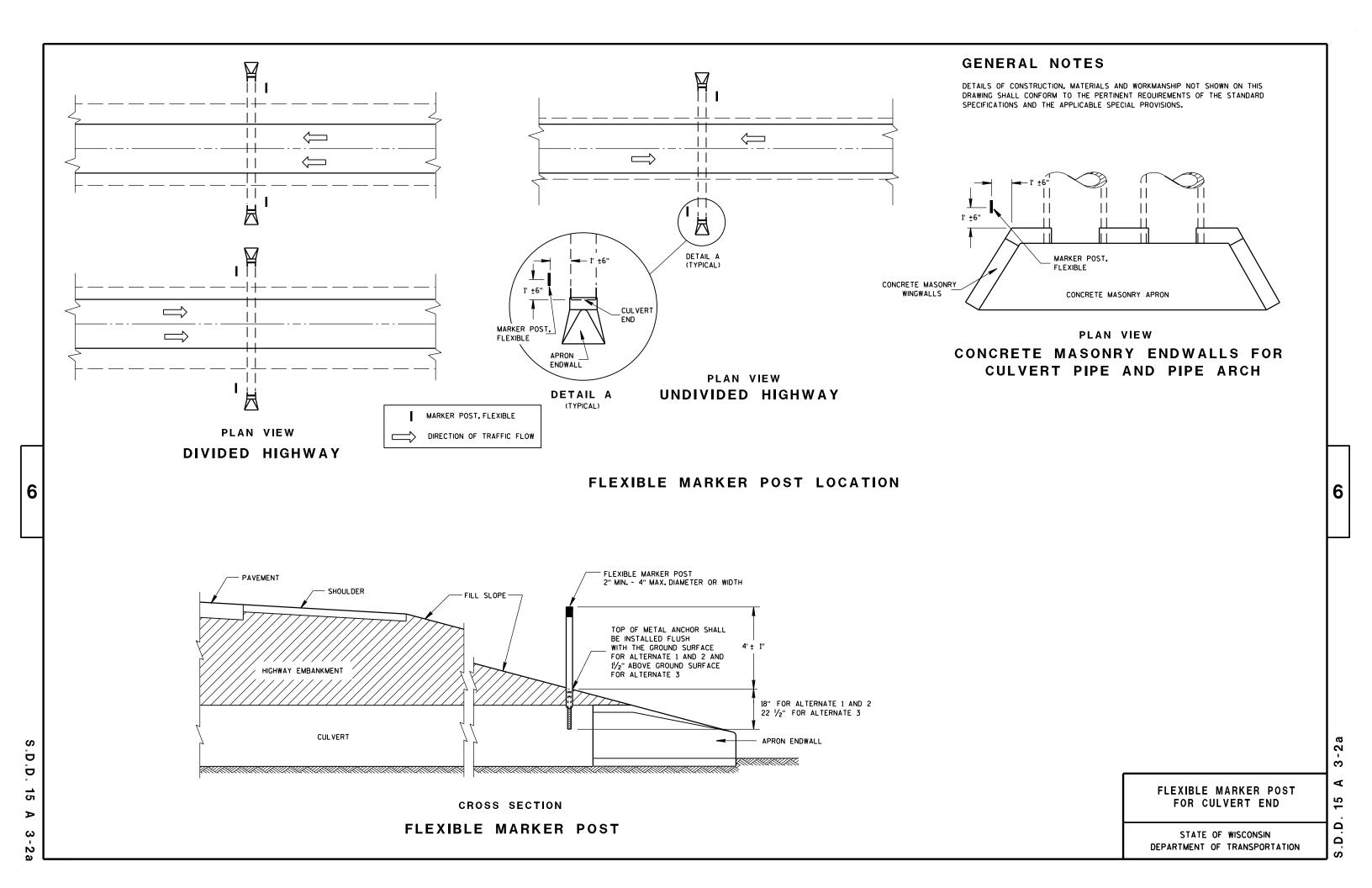
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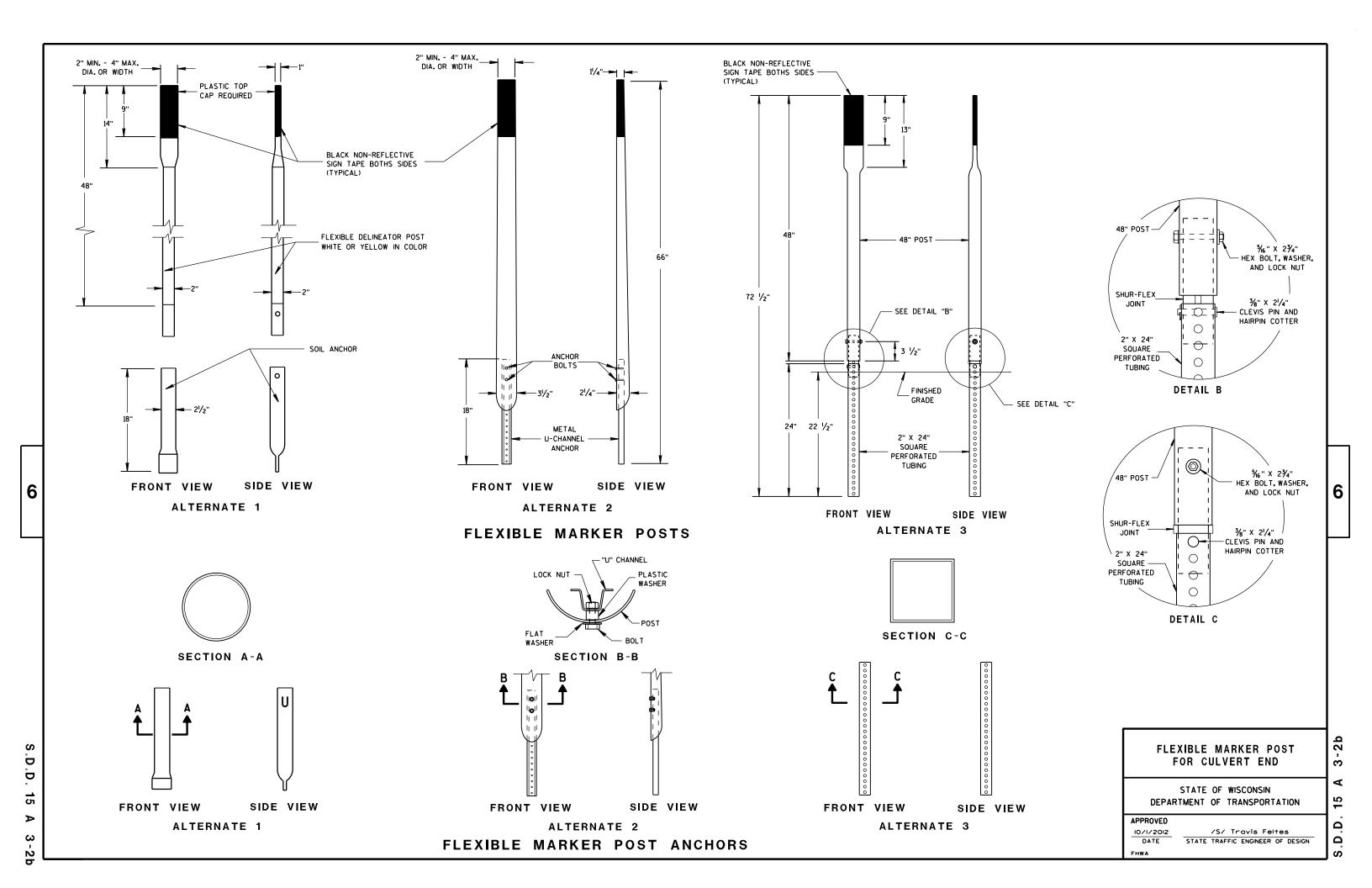
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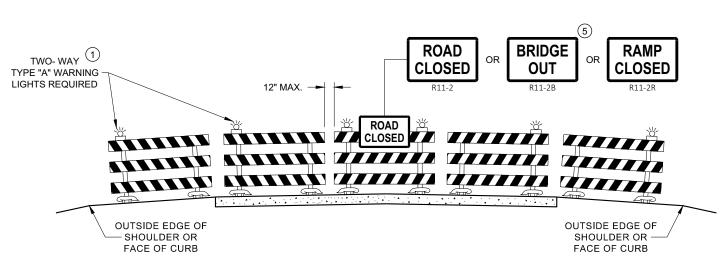
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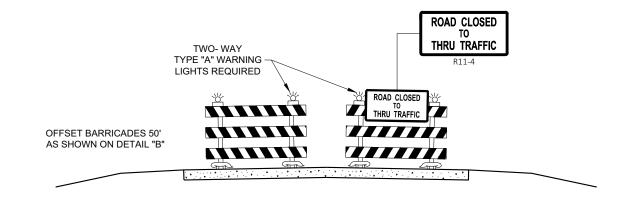
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER







DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11 - 2 SHALL BE 48" X 30"

R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"

M4 - 9 SHALL BE 30" X 24"

M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)

D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

R1 - 1 SHALL BE 36" X 36"

- 1 TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 2 AND R11 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- (7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

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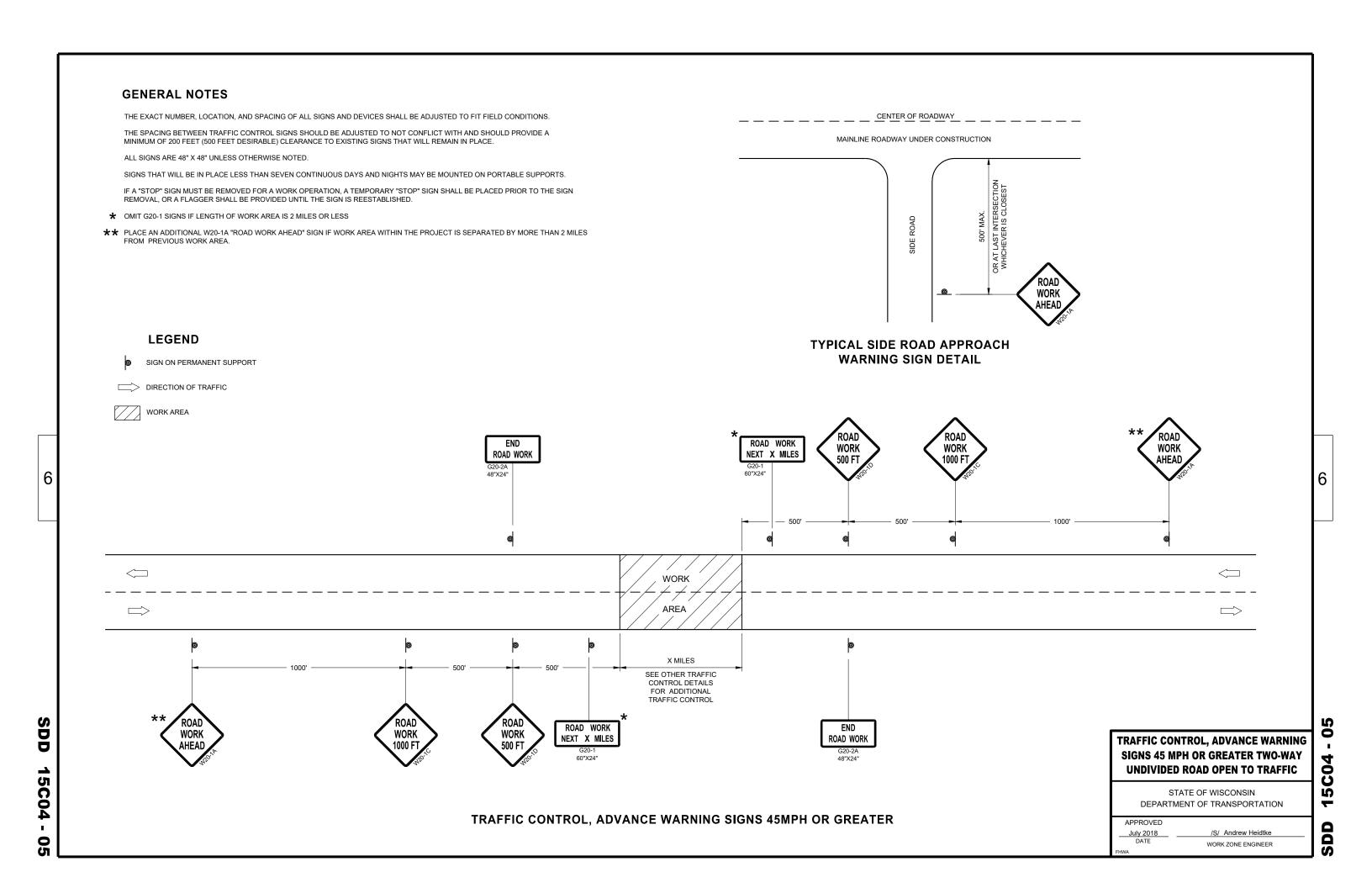
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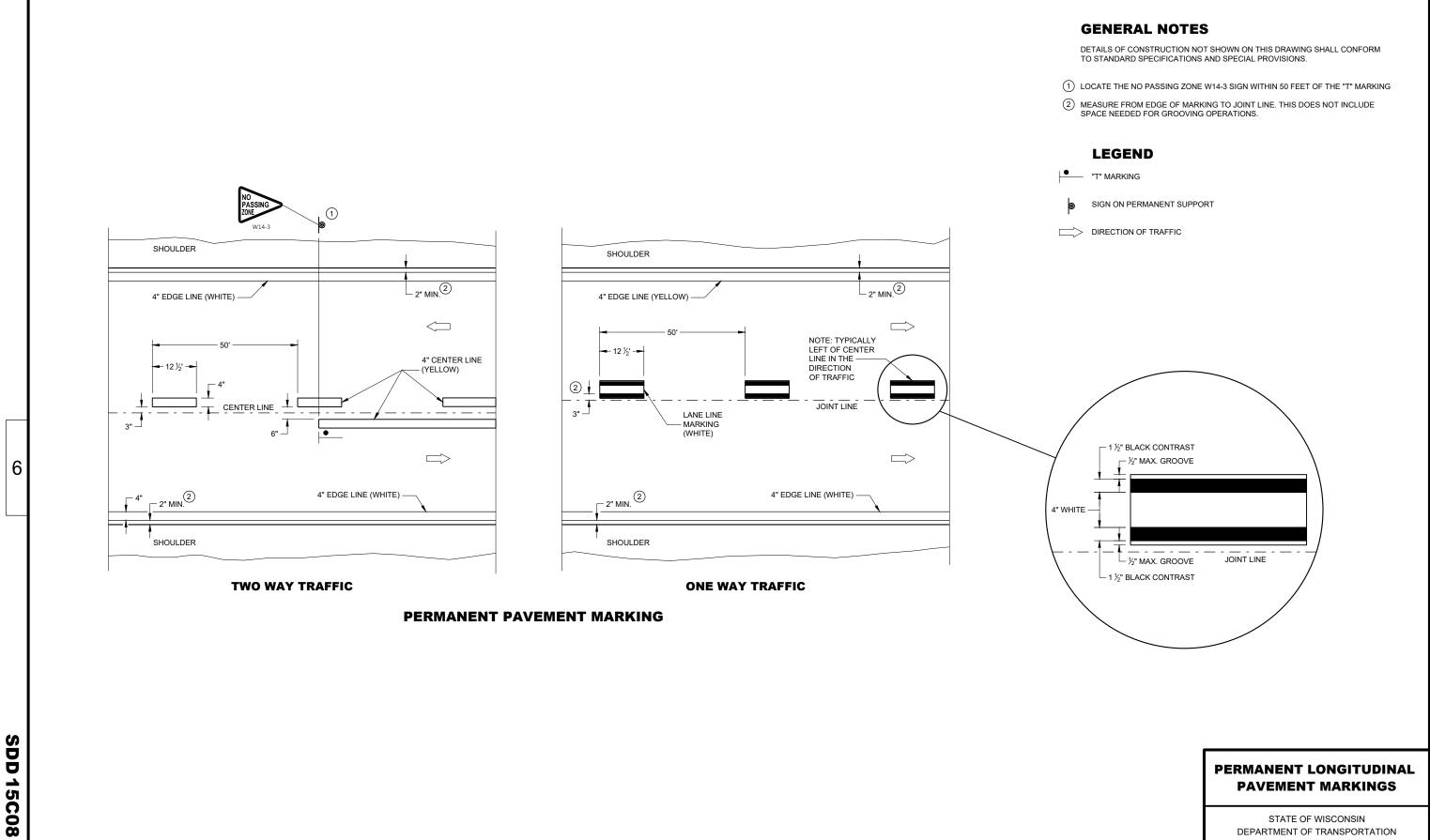
February 2020 ____

/S/ Andrew Heidtke
WORK ZONE ENGINEER

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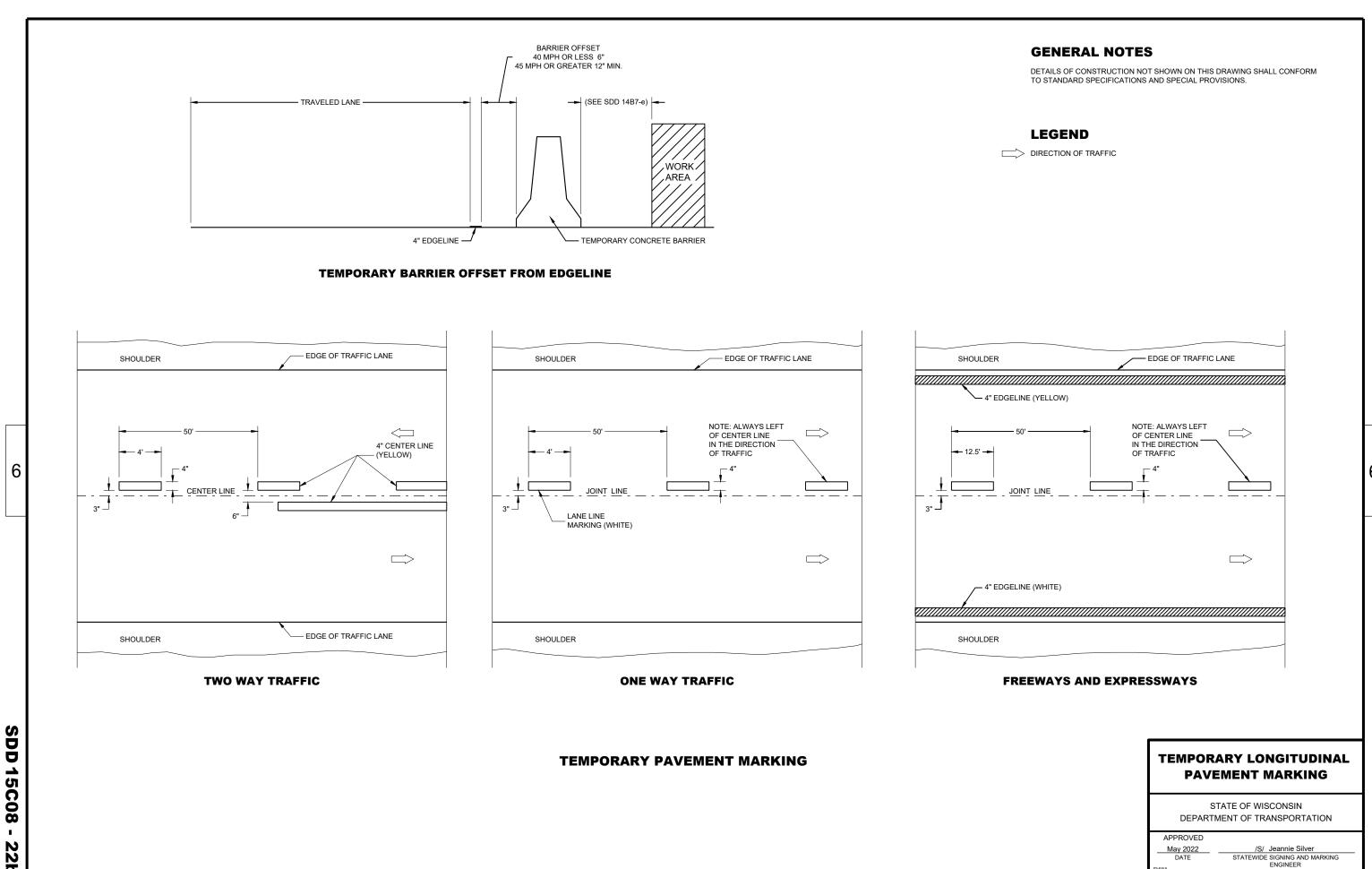


STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Jeannie Silver
STATEWIDE SIGNING AND MARKING
ENGINEER

APPROVED

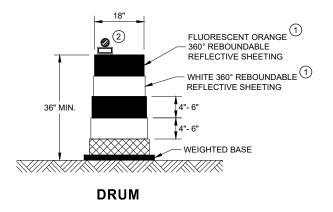
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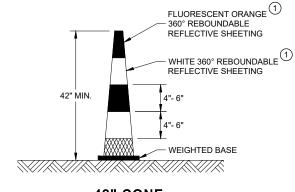


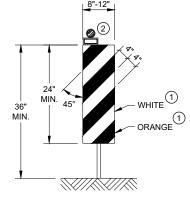
SDD 15C08 - 22b

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.





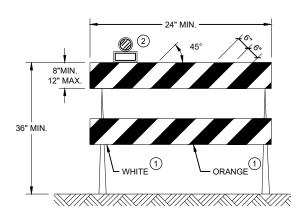


42" CONE

DO NOT USE IN TAPERS ½ SPACING OF DRUMS

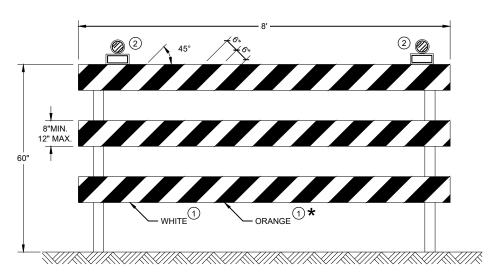
VERTICAL PANEL

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.

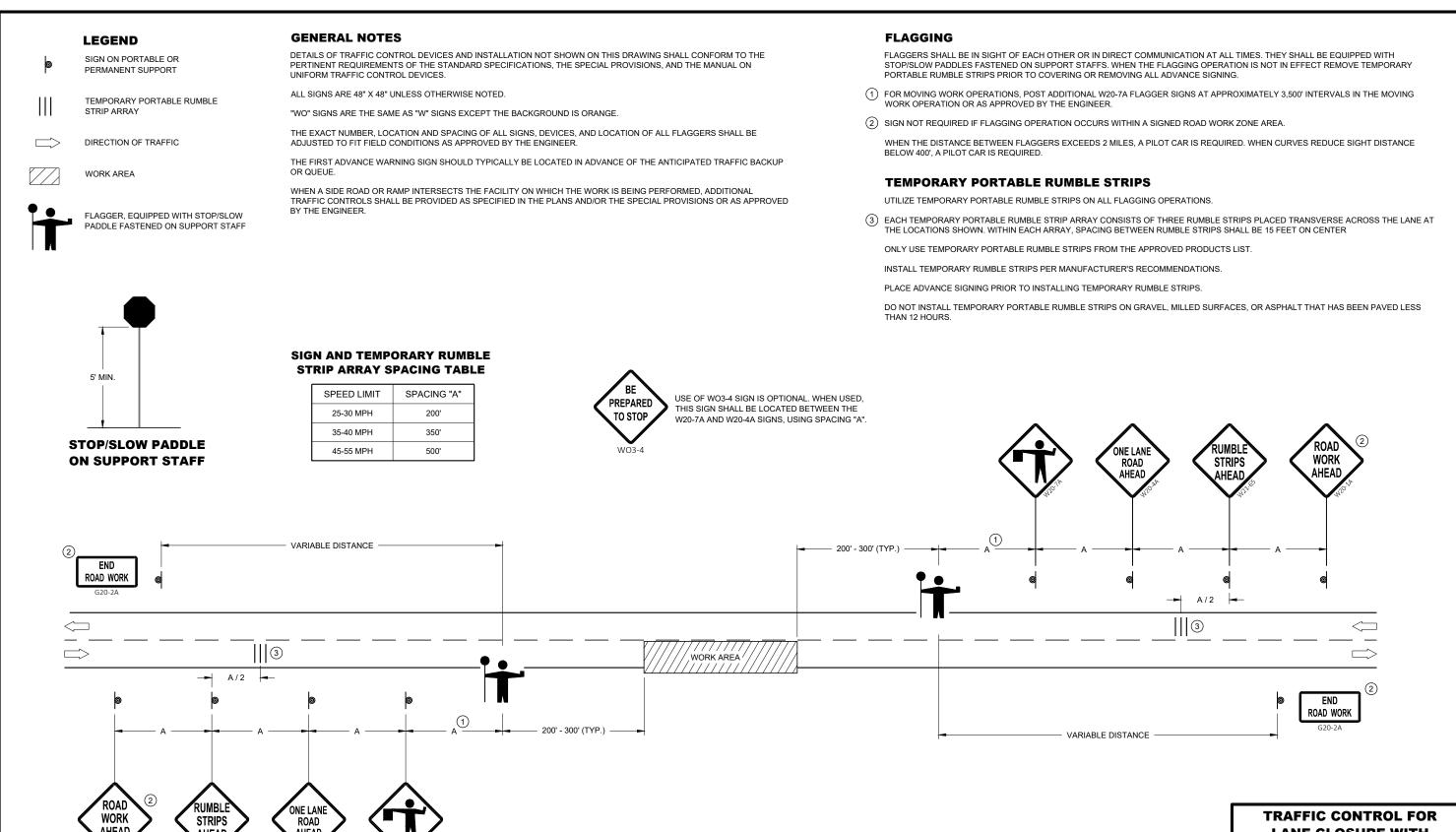
CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

<u>60</u>

15C

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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



LANE CLOSURE WITH **FLAGGING OPERATION** 0

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

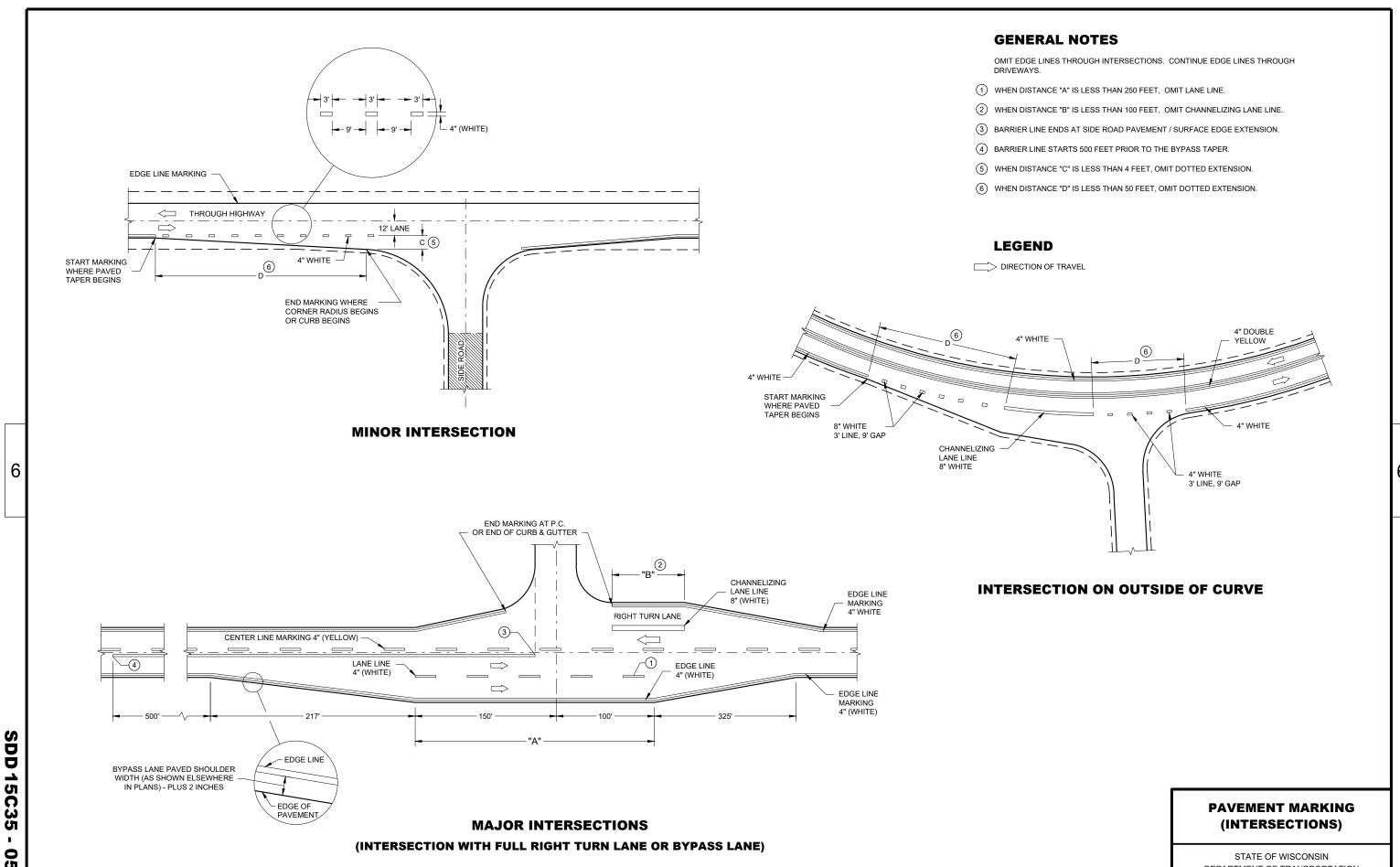
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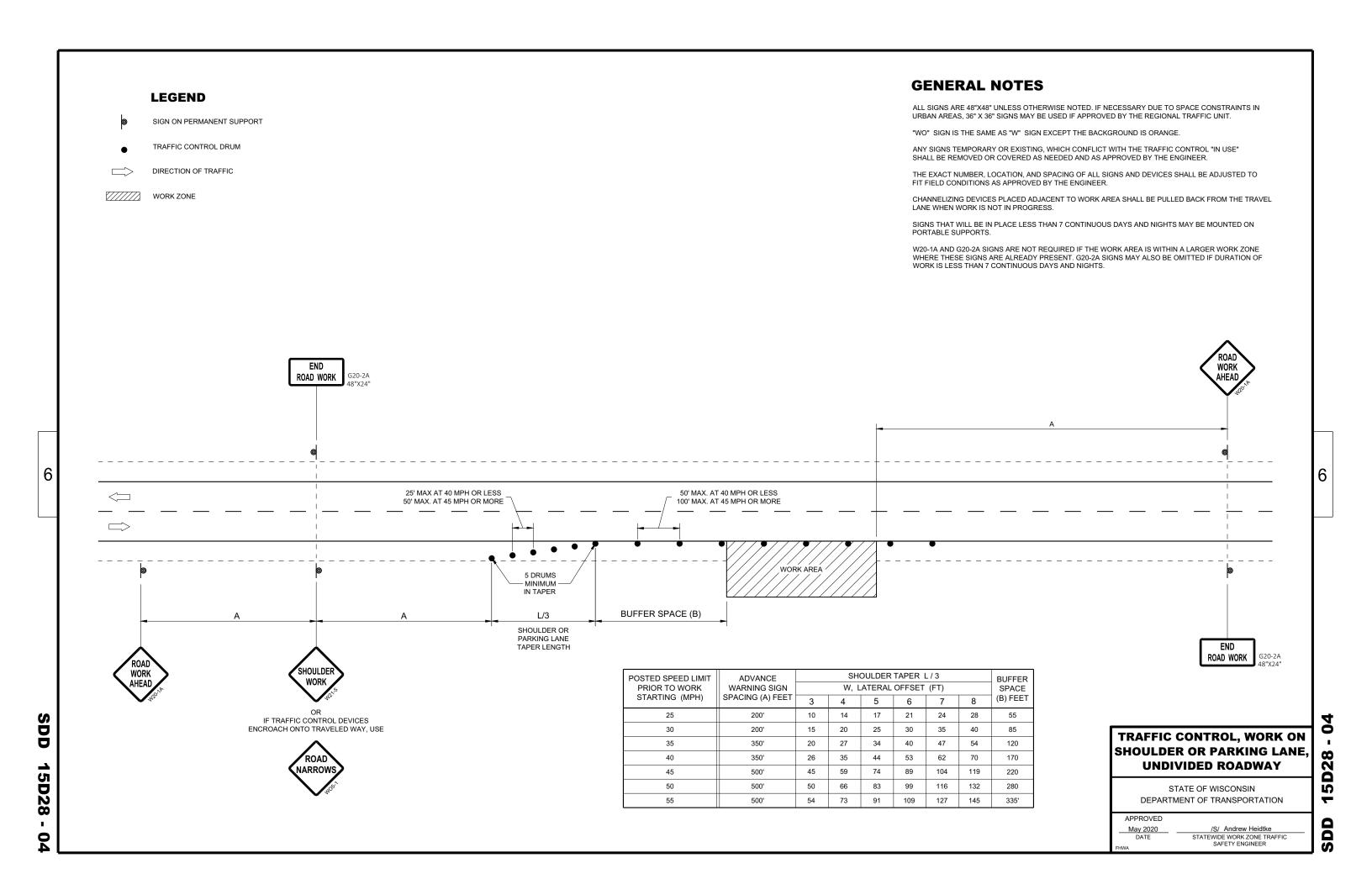
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WORK ZONE ENGINEER



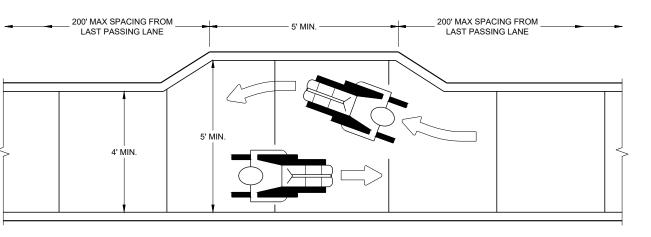
05 **SDD 15C3**

DEPARTMENT OF TRANSPORTATION

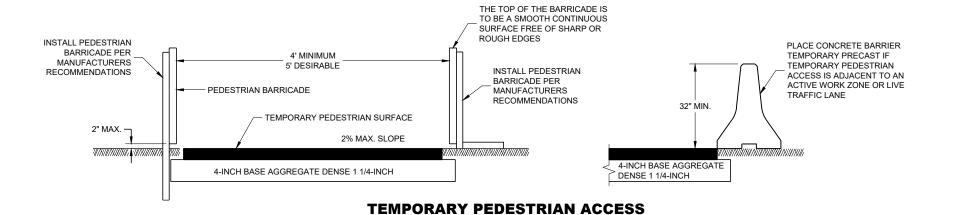


BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.
- 3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.
- ★ USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



NARROW SIDEWALK PASSING DETAIL



8" MIN 12" MAX.

WHITE 1 ORANGE 1 6" 6" 3' MIN.
4' MAX.

TEMPORARY PEDESTRIAN BARRICADE*

TRAFFIC CONTROL,
PEDESTRIAN
ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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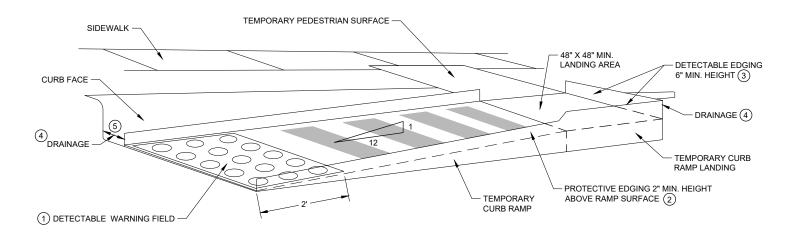
6

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

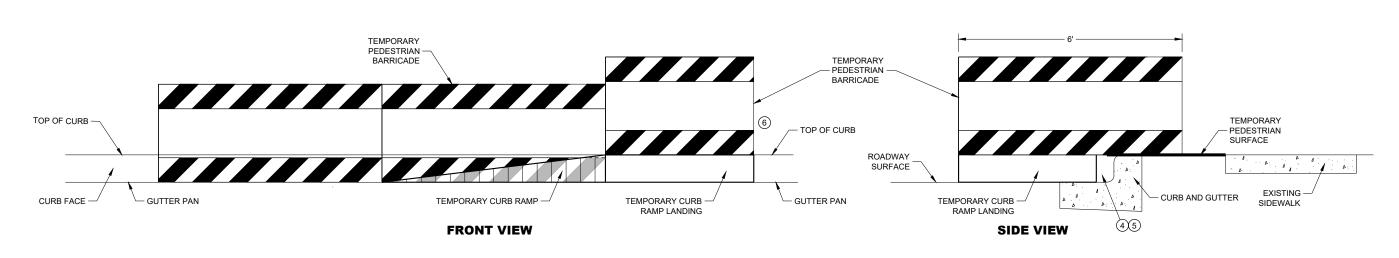
CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN $\frac{1}{2}$ " WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED $\frac{1}{2}$ ". LATERAL EDGES MAY BE VERTICAL UP TO $\frac{1}{4}$ " HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN $\frac{1}{4}$ " AND $\frac{1}{2}$ ".

- (1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE DI ANS
- 2 PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- (3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- (4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
- 5 6" MINIMUM BETWEEN CURB FACE AND EDGE OF RAMP
- (6) IF ONLY PART OF THE END PANEL OF TEMPORARY PEDESTRIAN BARRICADE PANEL IS NEEDED, EXTEND EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL HERE.



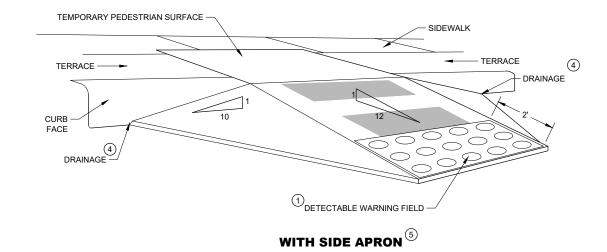
PERSPECTIVE VIEW

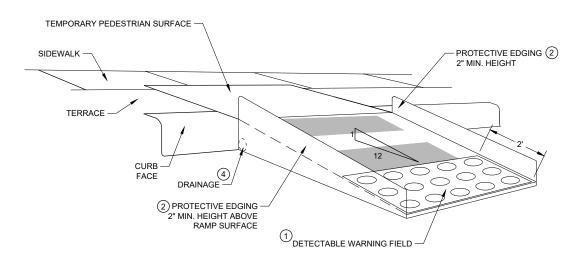


TEMPORARY CURB RAMP PARALLEL TO CURB

TRAFFIC CONTROL,
PEDESTRIAN
ACCOMMODATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION





SDD 15D30

WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

- CURB RAMPS SHALL BE 48" MINIMUM WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.
- ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.
- CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
- CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
- LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN $\slash\!\!/_2$ " WIDTH.
- CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED $\frac{1}{2}$ ". LATERAL EDGES MAY BE VERTICAL UP TO $\frac{1}{4}$ " HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN $\frac{1}{4}$ " AND $\frac{1}{2}$ ".
- (1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS
- (2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- (3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- 4 DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
- (5) CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

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

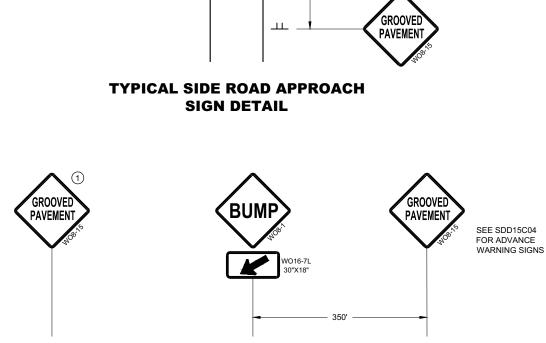
THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE

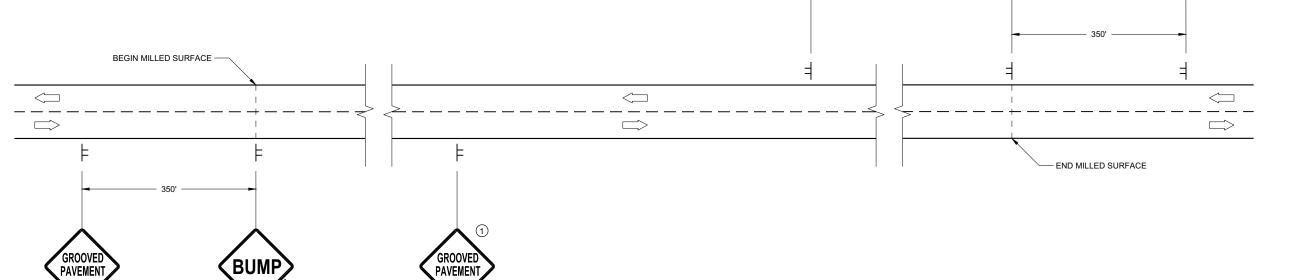
ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED

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

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

DIRECTION OF TRAFFIC





SEE SDD15C04 FOR ADVANCE WARNING SIGNS

DETAIL FOR SIGNING ON MILLED SURFACES

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

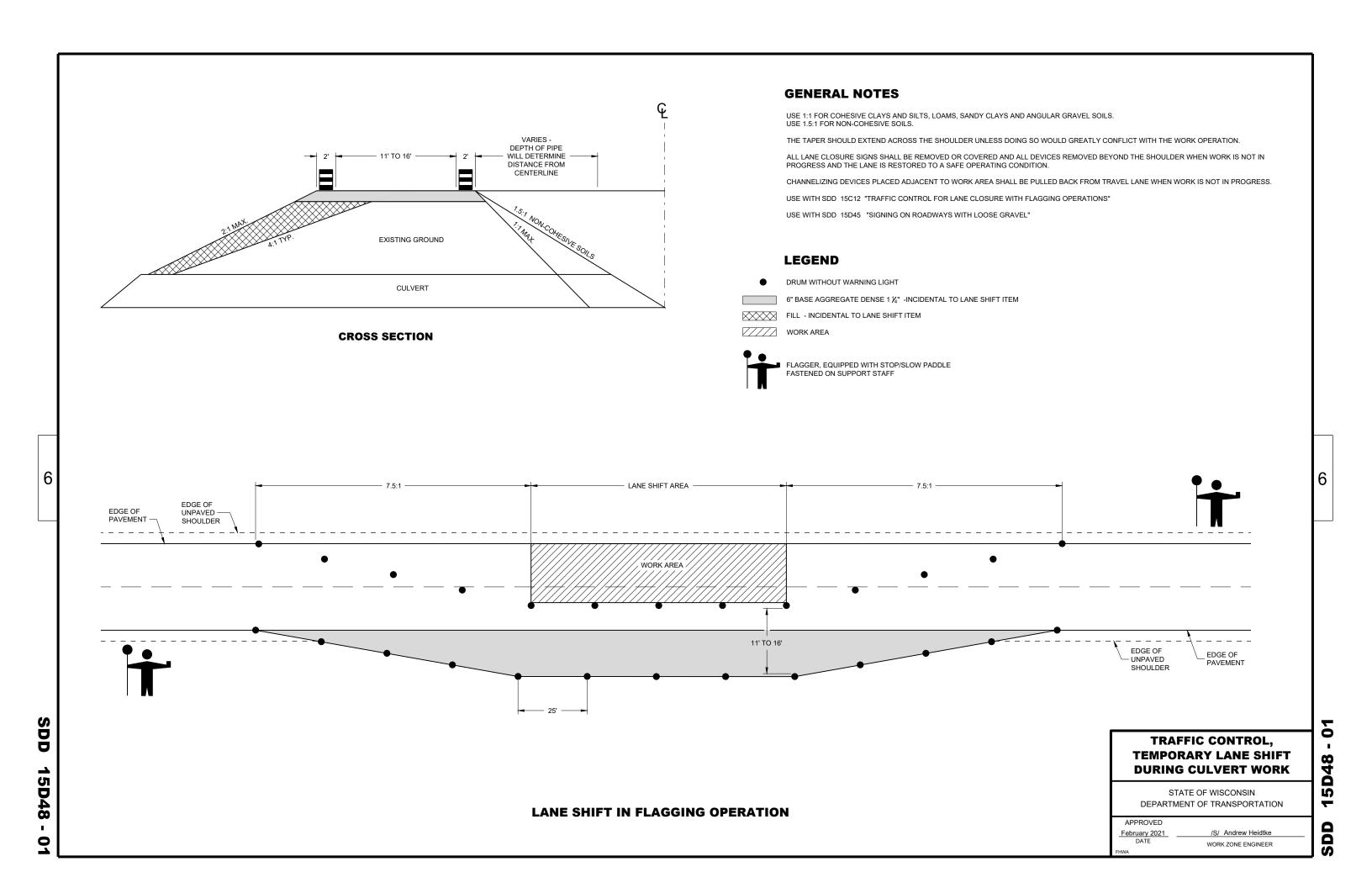
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2020 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER Ò S

45

50



V2

SHADOW VEHICLE TRUCK MOUNTED ATTENUATOR (TMA)

FLASHING ARROW PANEL (CAUTION)

WORK AREA

DIRECTION OF TRAFFIC

POSTED SPEED PRIOR TO WORK STARTING (MPH)	DECISION SIGHT DISTANCE (D)
0 - 25	550'
30	550'
35	700'
40	700'
45	900'
50	900'
55	1200'

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

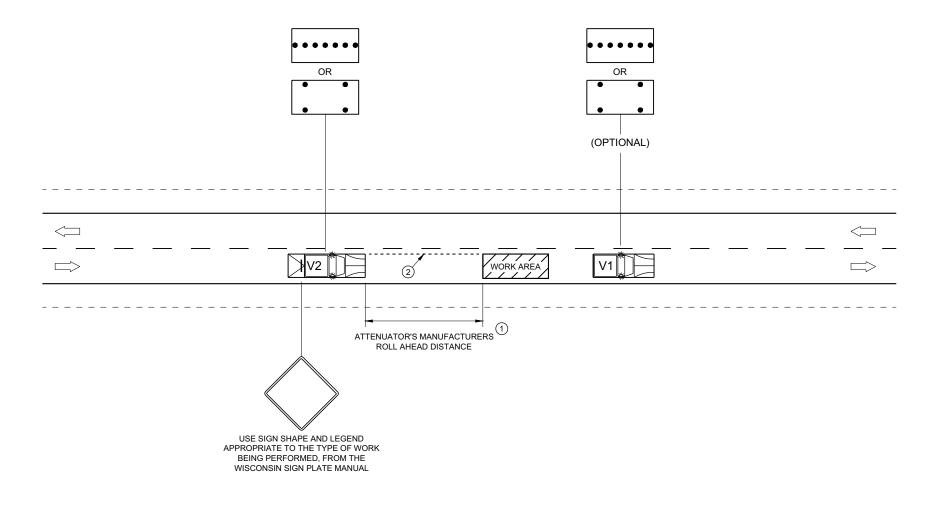
MOBILE IS WORK THAT MOVES CONTINUOUSLY OR MOVES AT LEAST THE DECISION

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL ARROW PANELS SHALL BE REAR FACING, TYPE "B" OR "C", AND DISPLAYING THE FLASHING CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF

- DISTANCE BETWEEN VEHICLES MAY INCREASE FROM THE ATTENUATOR'S ROLL AHEAD BASED ON TERRAIN, SIGHT DISTANCE, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
- 2) ALIGN LEFT SIDE OF SHADOW VEHICLE WITH EDGE OF WORK AREA.



TRAFFIC CONTROL, **MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY**

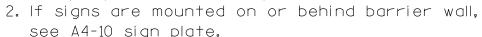
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

February 2021 DATE

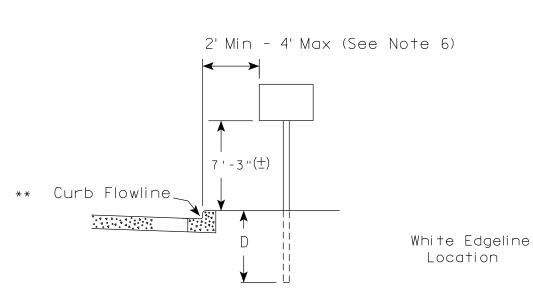
/S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC
SAFETY ENGINEER

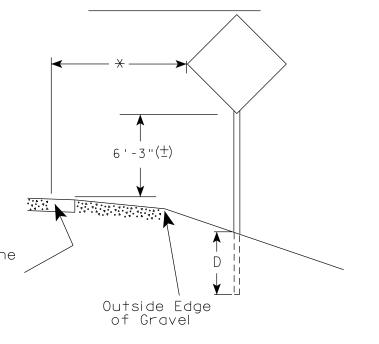
51 S



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'' ($\frac{+}{-}$).

- 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 $5' - 3'' \stackrel{(\pm)}{-}$.
- 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.





2' Min - 4' Max (See Note 6) 6'-3"(±) ** Curb Flowline D

5'-3"(士) White Edgeline $D \parallel$ Location 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 measured from the flow line.

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.

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 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 COUNTY:

PLOT BY: mscj9h

PLOT NAME :

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

PLOT DATE: 13-MAY 2020 1:04



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



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

WISDOT/CADDS SHEET 42

GENERAL NOTES

- 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.
- ** 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'

WISCONSIN DEPT OF TRANSPORTATION APPROVED For State Traffic Engineer DATE 8/21/17 PLATE NO. <u>A4-4.15</u>





	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRE)		
	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 SCALE: 108.188297:1.000000

WISDOT/CADDS SHEET 42

OF TYPE II SIGNS ON MULTIPLE POSTS

TYPICAL INSTALLATION

SHEET NO:

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



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 - 1/32 " (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

SHEET NO:

DATE 4/1/2020

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

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

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

PROJECT NO:



PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

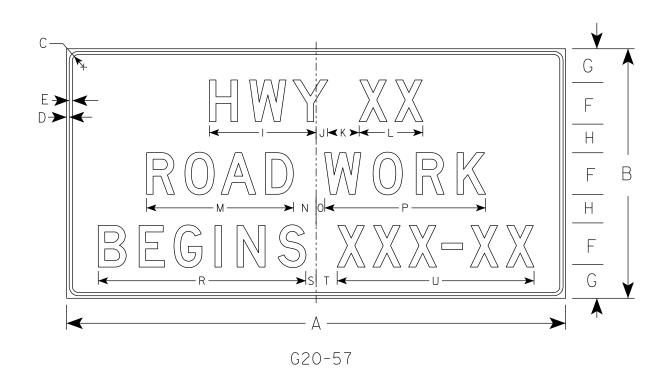
For State Traffic Engineer



- 1. Sign is Type II Type F Reflective
- 2. Color:

Background – Orange Message – Black

- 3. Message Series D
- 4. Substitute appropriate numeral and adjust spacing to achieve proper balance.



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.
1																											
2																											
3	72	36	1 1/8	1/2	5/8	6	5	4	15 %	1 5/8	5	9 1/4	21 1/4	3 1/2	1 1/2	23 1/4		29 7/8	1 3/4	3 1/4	28 1/2						18.0
4	96	48	2 1/4	3/4	1	8	6 1/2	5 1/2	20 %	2 1/4	6	12 1/4	28 1/4	4 3/8	1 5/8	31		39 1/4	2	4	37 1/8						32.0
5																											

COUNTY:

STANDARD SIGN G20-57

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

For State Traffic Engineer

DATE 1/22/19

PLATE NO. G20-57.3

FILE NAME : C:\CAEfiles\Projects\tr_stdplate_G2057.dgn

HWY:

PROJECT NO:

PLOT DATE: 22-JAN-2019 1:46

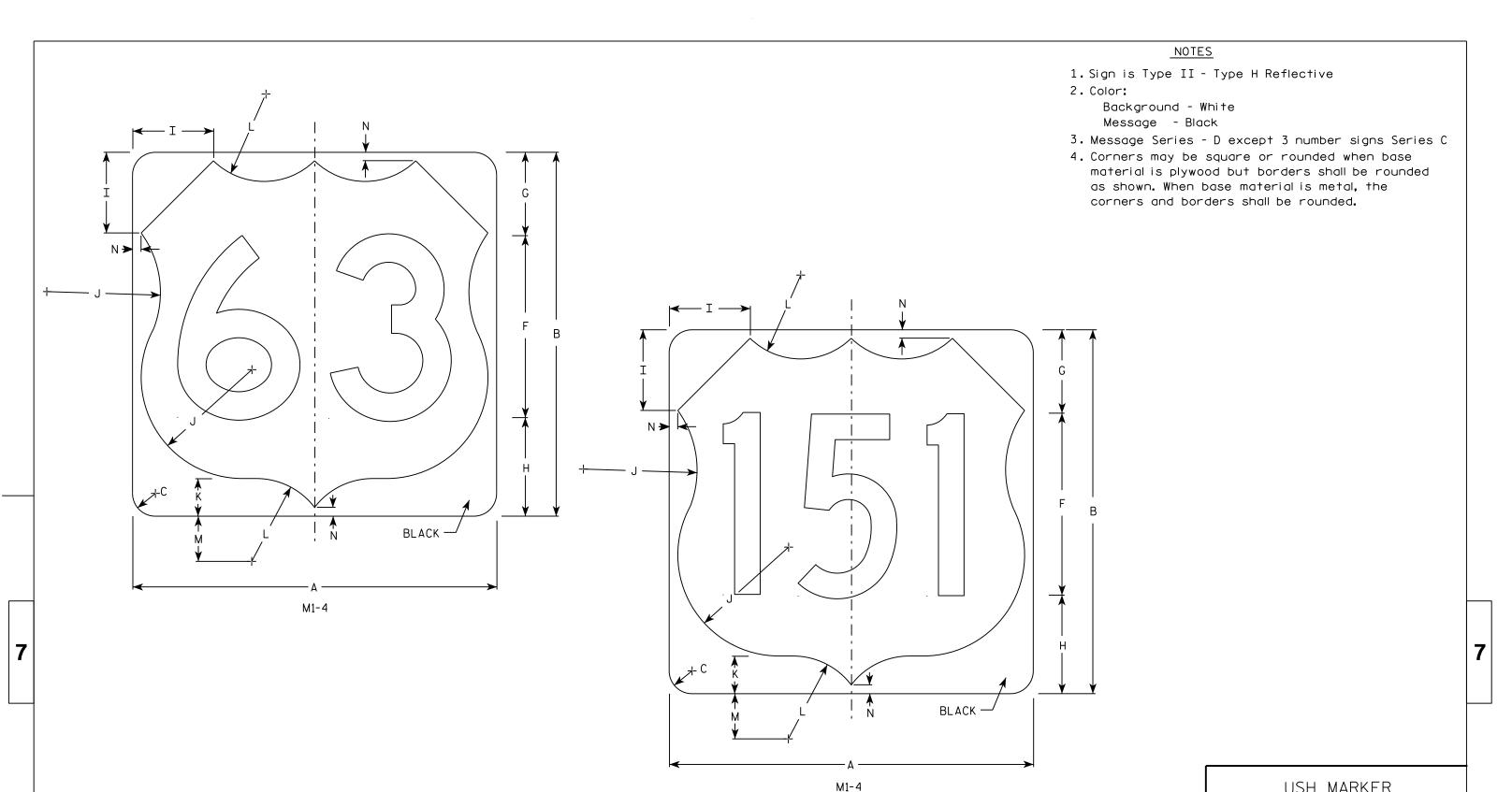
PLOT BY: mscj9h

PLOT NAME :

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

ı

Ε



D Ε G Ν Z 2 24 24 | 1 1/2 7 1/2 2 1/2 5 1/2 5 1/2 6 1/2 1/2 4.0 36 2 1/4 7 1/4 11 1/4 3 3/4 8 1/4 4 1/2 36 8 1/4 9 1/4 3/4 9.0 18 36 2 1/4 7 1/4 11 1/4 3 3/4 8 1/4 4 1/2 3/4 36 9 1/4 9.0 18 8 1/4 8 1/4 9 1/4 7 1/4 11 1/4 3 3/4 8 1/4 4 1/2 3/4 36 36 | 2 1/4 18 9.0

COUNTY:

USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE <u>3/16/18</u>

PLATE NO. M1-4.10

SHEET NO:

HWY:

PROJECT NO:







MP3-1









HWY:



NOTES

- 1. All Signs Type II Type H
- 2. Color:

Background - See note 5 Message - See note 5

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

5. M3-1 thru M3-4 Background - White Message - Black

MB3-1 thru MB3-4 Background - Blue

Message - White

MK3-1 thru MK3-4 Background - Green

Message - White

MM3-1 thru MM3-4 Background - White

Message - Green

MN3-1 thru MN3-4 Background - Brown

Message - White

MP3-1 thru MP3-4 Background - White

Message - Blue

6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 1/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

COUNTY:

STANDARD SIGNS M3-1 thur M3-4 **SERIES**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 10/15/15 PLATE NO. M3-1.14

Ε

SHEET NO:

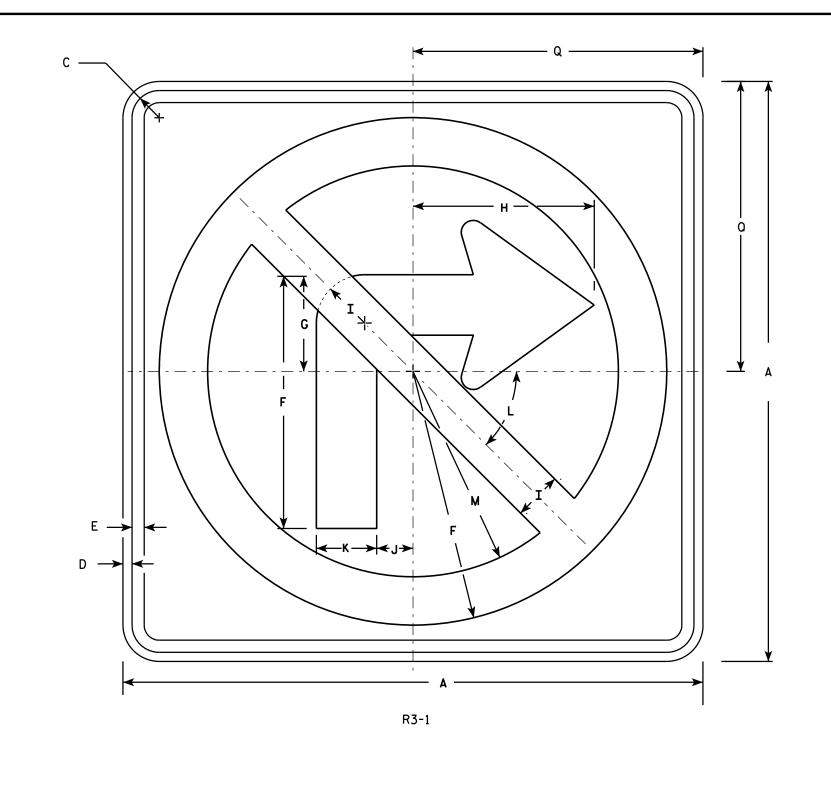
FILE NAME · C·\CAFfiles\Projects\tr stdolote\M31 DCN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:54

PLOT RY . \$\$ plotuser \$\$ PLOT NAME :

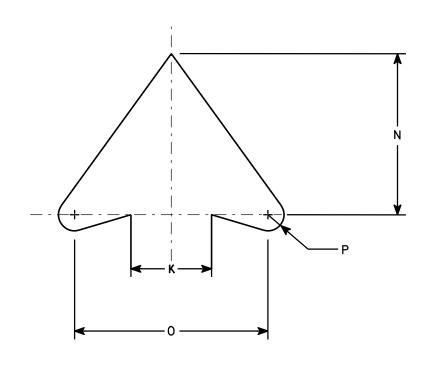
PLOT SCALE . 11 675051.1 000000



- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

PLOT NAME :

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3⁄8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 %	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 %	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 %	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3∕4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

COUNTY:

STANDARD SIGN R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

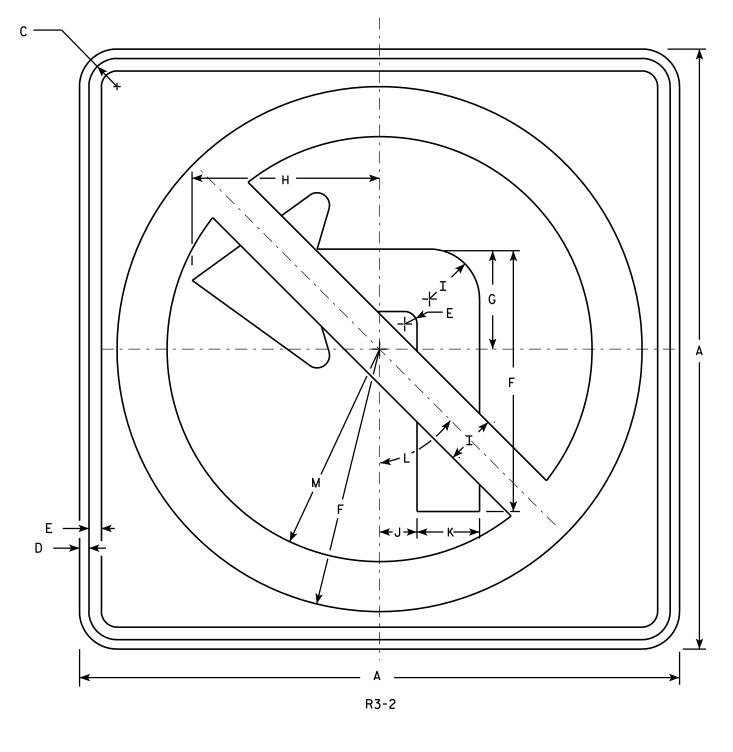
DATE 12/08/10

PLATE NO. __R3-1.5

SHEET NO:

HWY:

PROJECT NO:

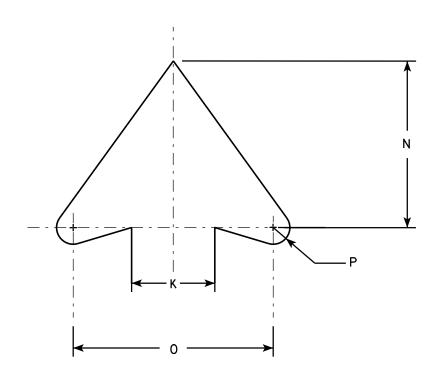


<u>NOTES</u>

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	Α	В	C	D	E	F	G	н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	₩	×	Y	Z	Area sq. ft
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
25	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 %	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 %	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

COUNTY:

STANDARD SIGN R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Mat

For State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

SHEET NO:

HWY:

PROJECT NO:

PLOT NAME :

- 1. Sigs are Type II Type H Reflective
- 2. Color:

Background - White Message - Black

- 3. Message Series D
- 4. Use appropriate Letter for Sign Code
 Each letter added makes sign wider. Example R3-8EAR
- 5. Square footage of sign varies by letters

- 2 Letters = 7.5 sq ft for Size 2 12.0 sq ft for Size 3
- 20.0 sq ft for Size 4 or 5 3 Letters = 11.25 sq ft for Size 2

30.0 sq ft for Size 4 or 5

- 4 Letters = 15.0 sq ft for Size 2 24.0 sq ft for Size 3
 - 40.0 sq ft for Size 4 or 5

18.0 sq ft for Size 3

- 5 Letters = 18.75 sq ft for Size 2 30.0 sq ft for Size 3 50.0 sq ft for Size 4 or 5
- 6 Letters = 22.5 sq ft for Size 2 36.0 sq ft for Size 3 60.0 sq ft for Size 4 or 5
- 6. When letters C,D,G,H are used on the Left or Right end of the sign the Sq.Ft.changes.

Add the amounts when these letters are used:

1.25 sq ft for Size 2
1.5 sq ft for Size 3
2.0 sq ft for Size 4 or 5

STANDARD SIGN R3-8 Series

WISCONSIN DEPT OF TRANSPORTATION

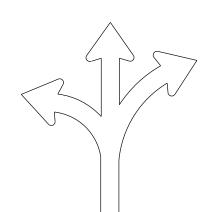
APPROVED Matthew & Rawh

For State Traffic Engineer

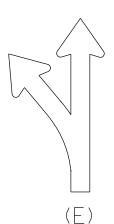
DATE 5/21/19 PLATE NO. R3-8.1

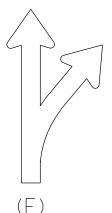
SHEET NO:

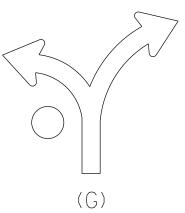
(C)

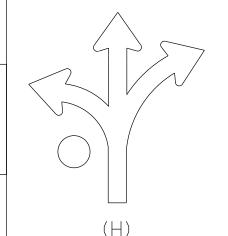


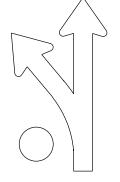
 (Δ)







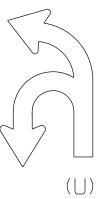




 (\top)







FILE NAME: C:\CAEfiles\Projects\stdplate_R38.dgn

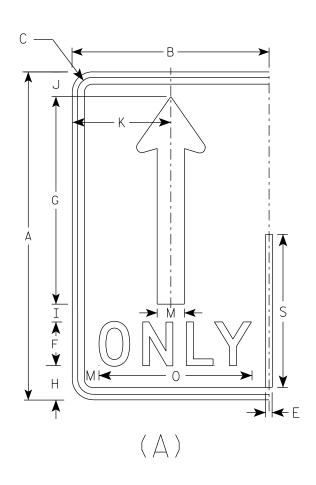
PROJECT NO:

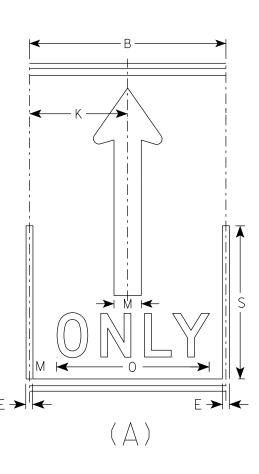
Ε

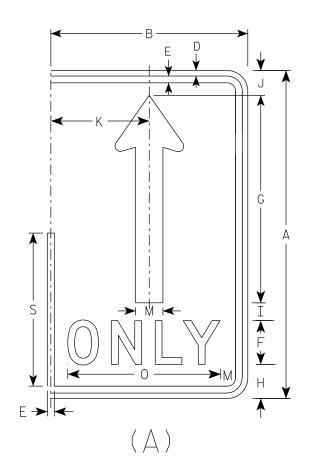
- 1. Sign is Type II Type H Reflective
- 2. Color:

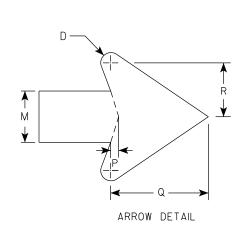
Background - White Message - Black

3. Message Series - D









SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	Ν	0	Р	Q	R	S	Т	U	٧	W	Χ	Y	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8	5	22 ¾	3 3/4	1 3/4	2 3/4	12		3		17 5/8	1/2	5 3/4	3 1/8	16 ¾								6.0
4	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 1/8	3 %	15		4		21 ¾	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 1/8	3 5/8	15		4		21 ¾	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN R3-8 (A) Arrow WISCONSIN DEPT OF TRANSPORTATION

APPROVED State Traffic Engineer

DATE <u>5/21/19</u> PLATE NO. <u>R3-8.1</u>

Ε PROJECT NO: HWY: COUNTY: SHEET NO:

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn

PLOT DATE: 21-MAY 2019 4:38

PLOT BY : mscj9h

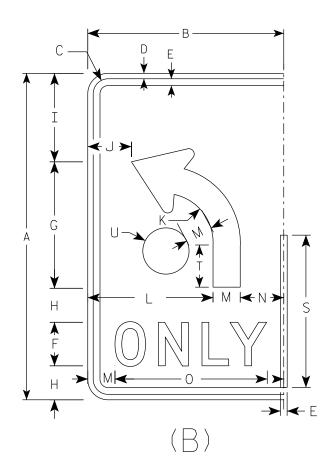
PLOT NAME :

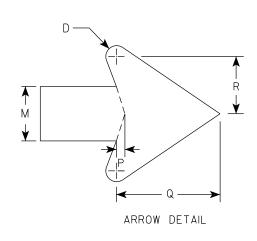
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background – White Message – Black

Message Series - D





SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	Χ	Y	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 %	14	3 1/8	2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 %	14	3 1/8	2 1/8						3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8	2 1/2						6.0
4	48	30	2 1/4	3/4	1	6	18	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8			22 3/8								10.0
5	48	30	2 1/4	3/4	1	6	18	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0

R3-8 (B) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch

For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

STANDARD SIGN

PROJECT NO: SHEET NO:

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn

PLOT DATE: 21-MAY 2019 4:38

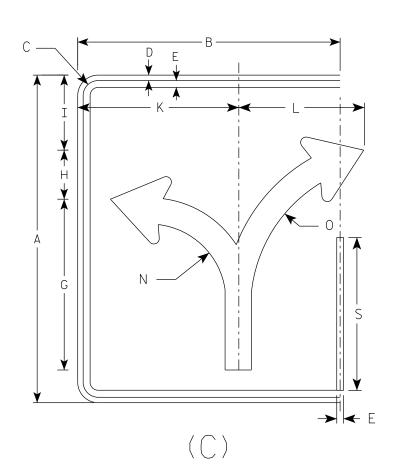
PLOT BY: mscj9h

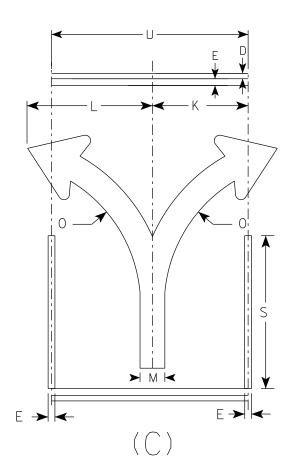
PLOT NAME :

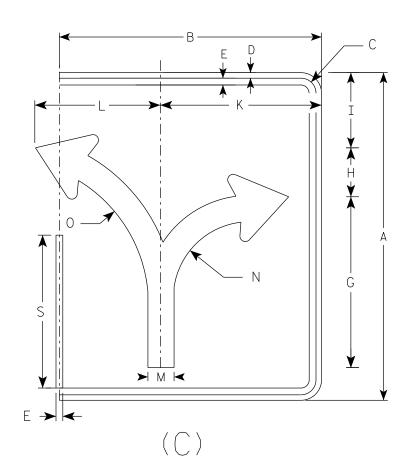
- 1. Sign is Type II Type H Reflective
- 2. Color:

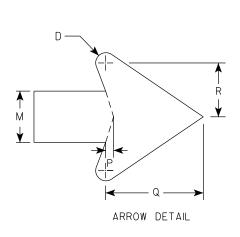
Background - White Message - Black

3. Message Series - None









																										ENDS	MIDDLE
SIZE	Α	В	С	D	E	F	G	Н	I	J K	L	М	Ν	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.	Area sq. ft.
1																											
25	30	24	1 3/8	1/2	5/8		15 %	4 1/2	6 1/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 %	4 1/2	6 1/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4	17 1/4	17 1/4	2 1/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 1/8	7 1/4	11	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 1/8	7 1/4	11	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

COUNTY:

STANDARD SIGN R3-8 (C) Arrow

WISCONSIN DEPT OF TRANSPORTATION

 f_{or} State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

SHEET NO: PLOT NAME :

HWY:

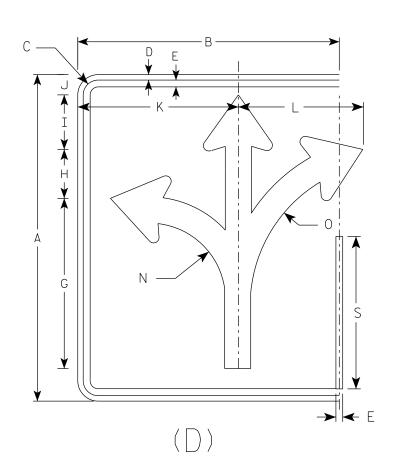
PROJECT NO:

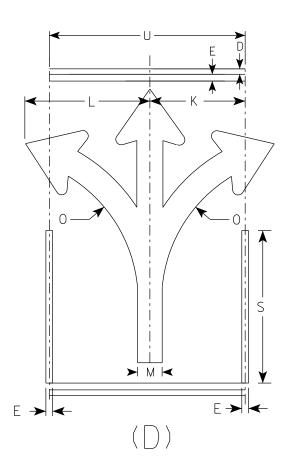
- 1. Sign is Type II Type H Reflective
- 2. Color:

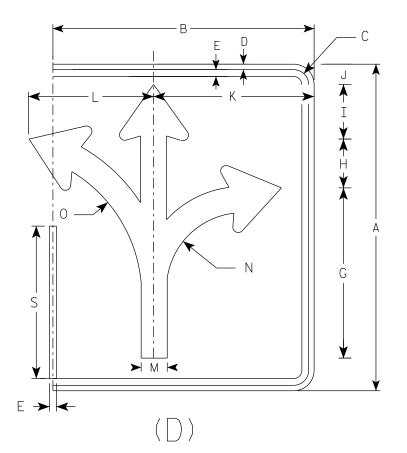
Background - White Message - Black

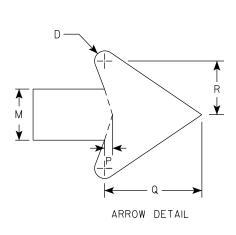
3. Message Series - None

ENDS MIDDLE









SIZE	А	В	С	D	E	F	G	Н	I	J K	L	М	N	0	Р	Q	R	S	T U	V	W	X	Υ	Z	Area sq. ft.	Area sq. ft.
1																										
25	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8 14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14	18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 %	4 1/2	5	1 1/8 14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14	18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	2 1/4 17 1/4	17 1/4	2 1/8	8 3/8	16	1/2	5 1/2	3	16 ¾	24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 1/8	7 1/4	7 1/8	3 1/8 23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8	30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 1/8	7 1/4	7 1/8	3 1/8 23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8	30						12.0	10.0

COUNTY:

STANDARD SIGN R3-8 (D) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther √or State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1 Ε

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn

HWY:

PROJECT NO:

PLOT DATE: 21-MAY 2019 4:38

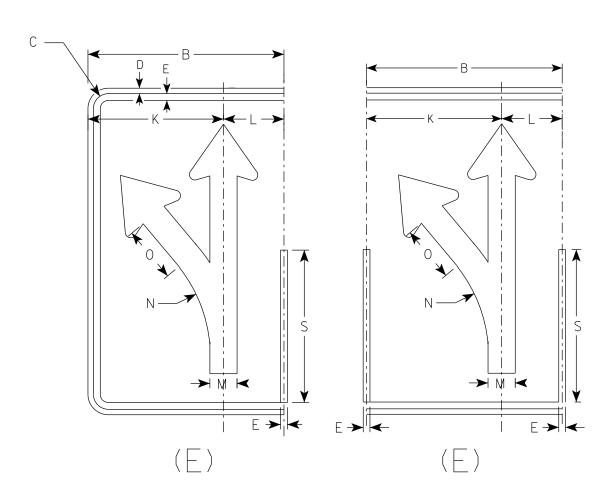
PLOT BY : mscj9h

PLOT NAME :

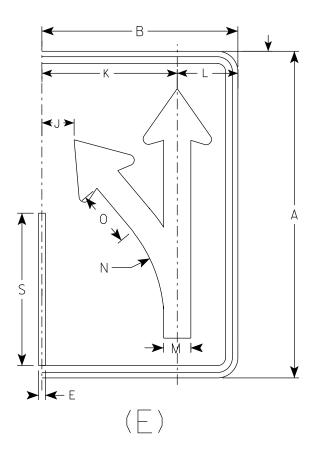
- 1. Sign is Type II Type H Reflective
- 2. Color:

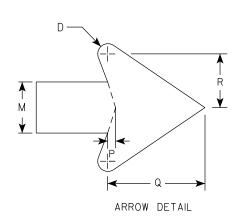
Background - White Message - Black

3. Message Series - None



HWY:





SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	۵	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 1/8	5 %	4	4 1/8	16 1/8	7 3/4	3	15 1/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 ¾								10.0

COUNTY:

STANDARD SIGN R3-8 (E) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

SHEET NO: **E**

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn

PROJECT NO:

PLOT DATE: 21-MAY 2019 4:38

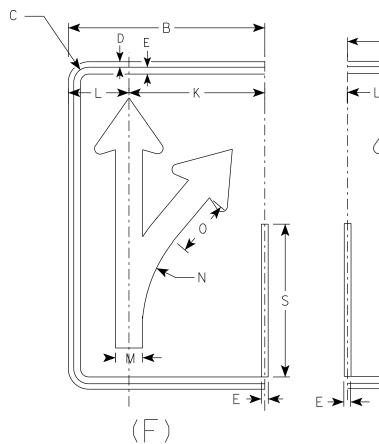
PLOT BY : mscj9h

PLOT NAME :

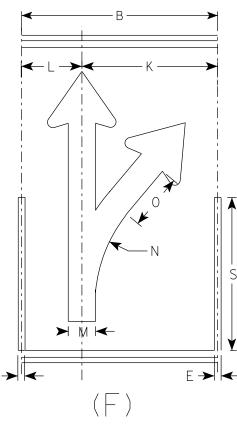
- 1. Sign is Type II Type H Reflective
- 2. Color:

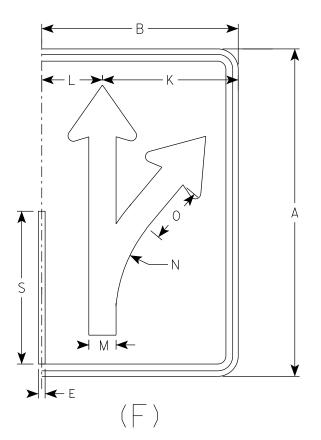
Background - White Message - Black

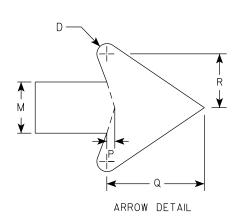
3. Message Series - None



HWY:







SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Χ	Y	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 ½	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 1/8	5 5/8	4	4 1/8	16 1/8	7 3/4	3	15 1/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8			22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7	4 1/4	22 3/8								10.0

COUNTY:

STANDARD SIGN R3-8 (F) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R R For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn

PROJECT NO:

PLOT DATE: 21-MAY 2019 4:38

PLOT BY: mscj9h

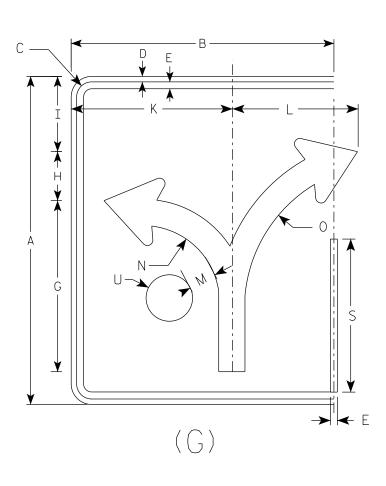
PLOT NAME :

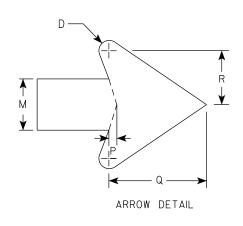
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

3. Message Series - None





s	IZE	А	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	Q	R	S	T	U	٧	w w	X	Y	Z	Area sq. ft.
	1																											
	25	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 1/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
	2M	30	24	1 3/8	1/2	5/8		15 %	4 1/2	6 %		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
	3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 1/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
	4	48	36	2 1/4	3/4	1		24 1/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
	5	48	36	2 1/4	3/4	1		24 1/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

COUNTY:

STANDARD SIGN R3-8 (G) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R

For State Traffic Engineer

SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn

PROJECT NO:

HWY:

PLOT DATE: 21-MAY 2019 4:38

PLOT BY: mscj9h

PLOT NAME :

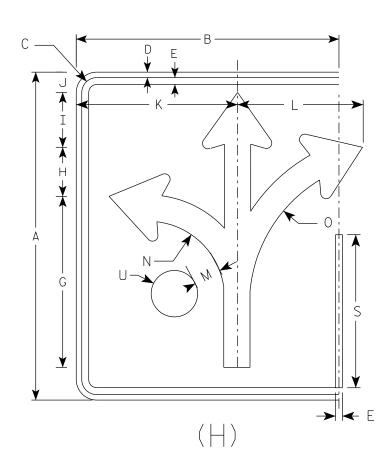
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

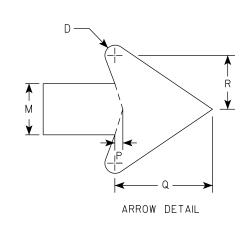
•

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

3. Message Series - None





SIZE	А	В	С	О	E	F	G	I	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 1/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 1/8	14 3/4		2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	9	3 1/8	17 1/4	17 1/4	2 1/8	8 3/8	16	1/2	5 1/2	3	16 ¾		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 1/8	7 1/4	7 1/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 1/8	7 1/4	7 1/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

COUNTY:

STANDARD SIGN R3-8 (H) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Roy For State Traffic Engineer

DATE ___5/21/19_ PLATE NO. __R3-8.1

SHEET NO: **E**

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn

HWY:

PROJECT NO:

PLOT DATE: 21-MAY 2019 4:38

PLOT BY: mscj9h

PLOT NAME :

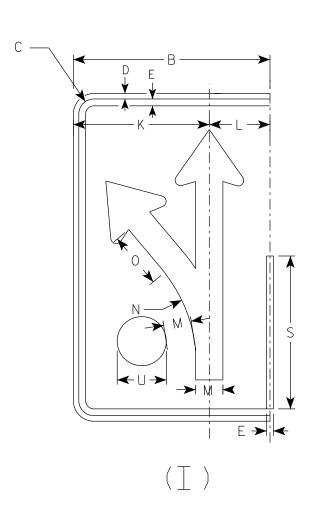
PLOT SCALE: \$\$.....plotscale.....\$\$WISDOT/CADDS SHEET 42

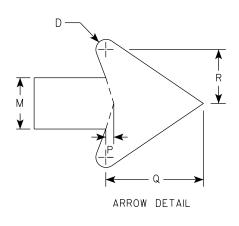
7

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

3. Message Series - None





SIZE	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Υ	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
3	36	24	1 3/8	1/2	5/8		21 1/8	5 %	4	4 1/8	16 1/8	7 3/4	3	15 1/8	6 1/8	1/2	5 3/4	3 1/8	16 ¾		2 1/2						6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0

STANDARD SIGN R3-8 (I) Arrow

WISCONSIN DEPT OF TRANSPORTATION

PPROVED Mathew R R. For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn

HWY:

PROJECT NO:

COUNTY:

JIN I T.

PLOT DATE: 21-MAY 2019 4:38

PLOT BY : mscj9h

PLOT NAME :

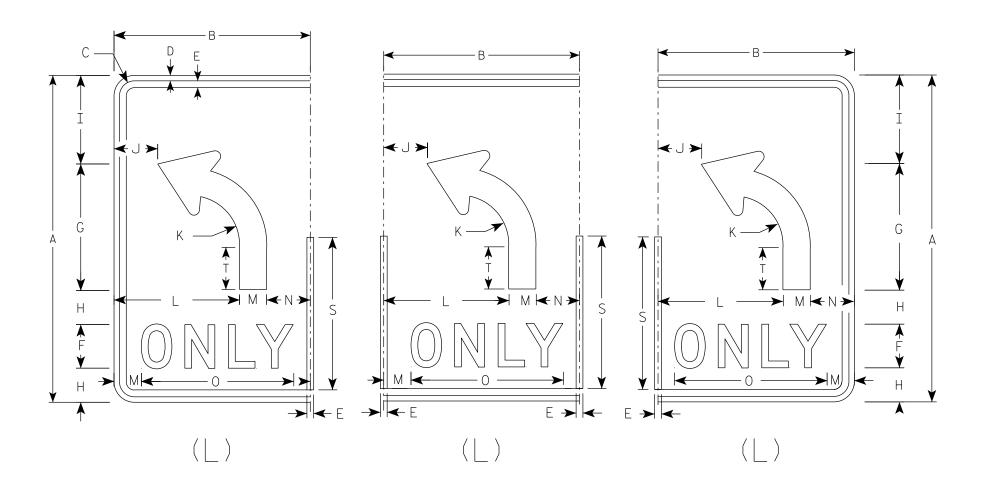
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

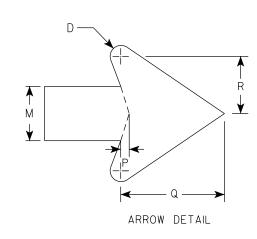
'

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

3. Message Series - D





SIZE	Δ	В		D	F	F	G	Н	Т	J	К		М	N	0	Р	<u> </u>	R	S	т	Ш	V	w	Х	Y	7	Area sq. ft.
1			0			'			1		'`					<u> </u>	<u> </u>			'			,,,				
25	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 1/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2	14	3 1/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4		5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 %	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN
R3-8 (L) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthe R Raw

For State Traffic Engineer

DATE __5/21/19______PLATE NO.____R3-8.1

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn

PROJECT NO:

PLOT DATE: 21-MAY 2019 4:38

PLOT BY : mscj9h

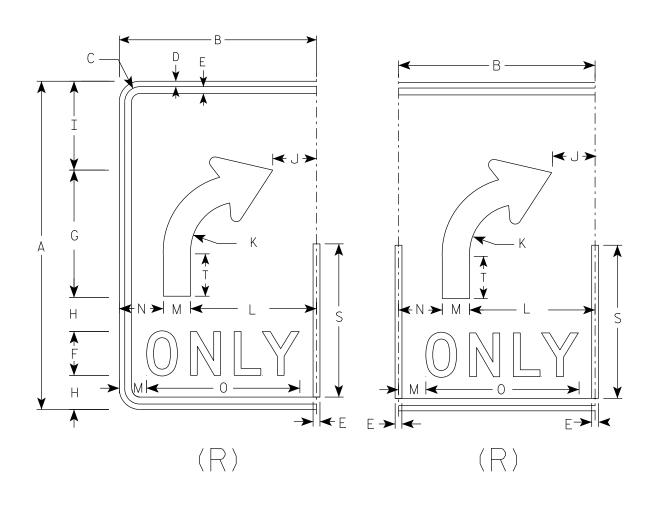
PLOT NAME :

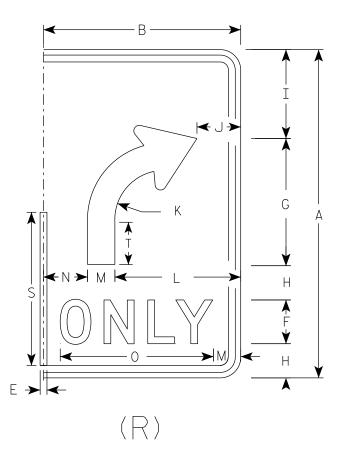
Ε

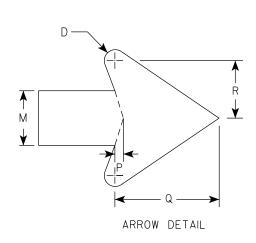
- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

3. Message Series - D







SIZE	А	В	С	D	E	F	G	Ι	I	J	K	L	М	Ν	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 1/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2	14	3 1/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN R3-8 (R) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED M

For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

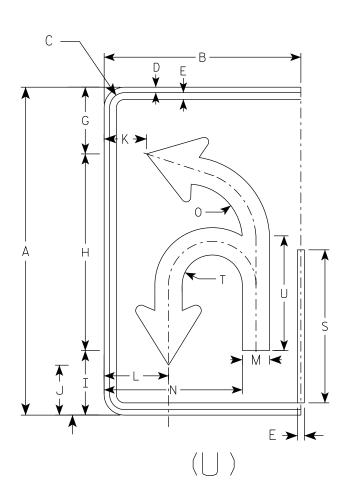
SHEET NO:

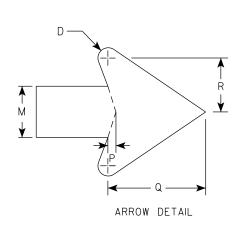
PROJECT NO:

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

3. Message Series - None





SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S T	U	V	W	Х	Υ	Z Area sq. ft.
1																									
25	30	18	1 3/8	1/2	5/8		6 1/8	18	5 1/8	4 5/8	3 1/8	5 %	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14 2	4 10 1/2	2				3.75
2M	30	18	1 3/8	1/2	5/8		6 1/8	18	5 1/8	4 5/8	3 1/8	5 1/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14 2	/ ₄ 10 1/ ₂	2				3.75
3	36	24	1 3/8	1/2	5/8		21 1/8	21 %	7 1/8	5 1/2	5 %	8 1/4	3	16 3/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4 3 !	/ ₄ 12 5/ ₈					6.0
4	48	30	2 1/4	3/4	1		29 1/8	28 ¾	9 3/8	7 1/4	6 1/8	10	4	20 1/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8 4 3	8 16 3/ ₄					10.0
5	48	30	2 1/4	3/4	1		29 1/8	28 ¾	9 3/8	7 1/4	6 1/8	10	4	20 1/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8 4 3	8 16 3/2					10.0

COUNTY:

STANDARD SIGN R3-8 (U) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew

DATE 5/21/19 PLATE NO. R3-8.1

 f_{or} State Traffic Engineer

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn

HWY:

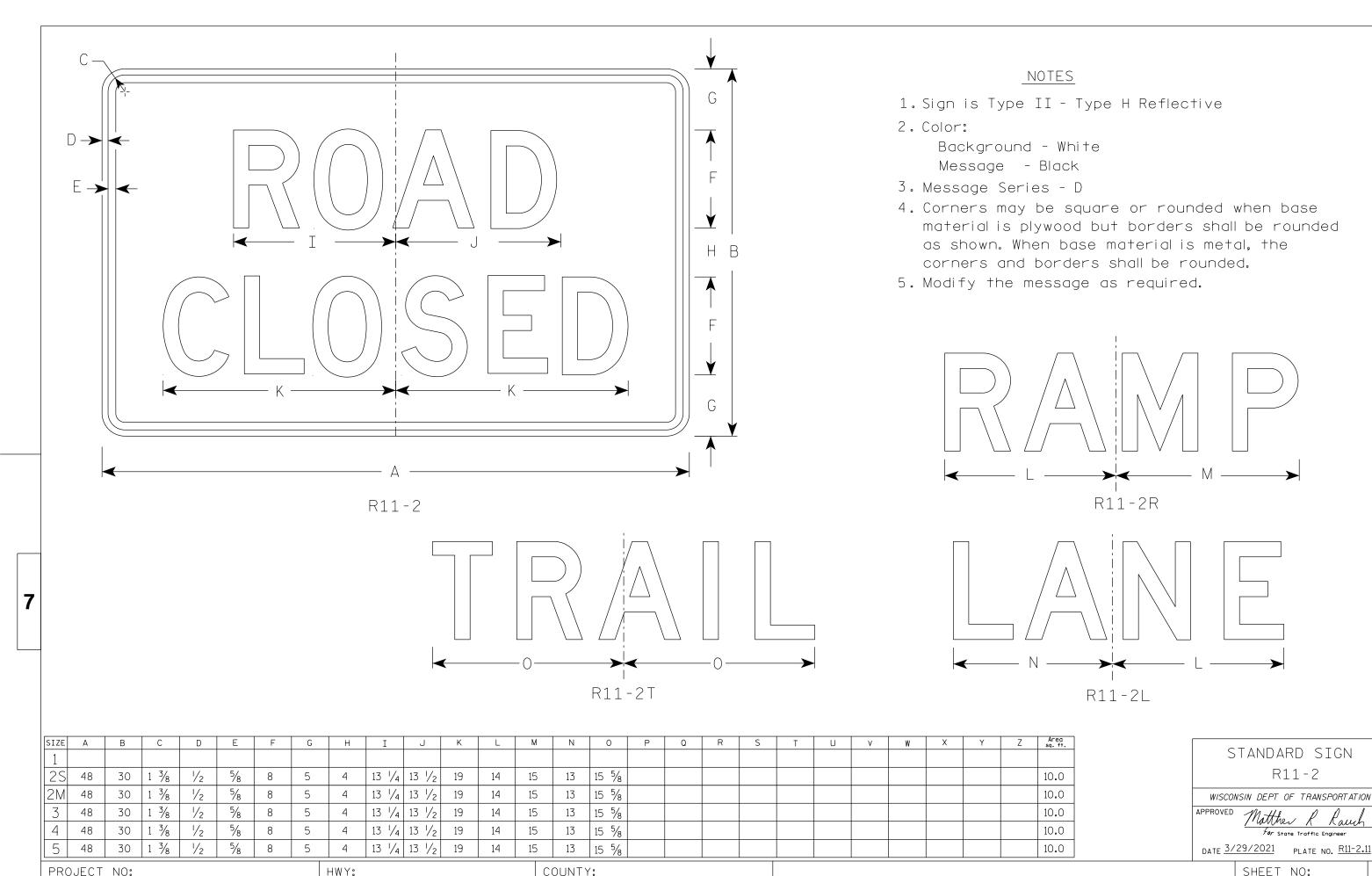
PROJECT NO:

PLOT DATE: 21-MAY 2019 4:38

PLOT BY: mscj9h

PLOT NAME :

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



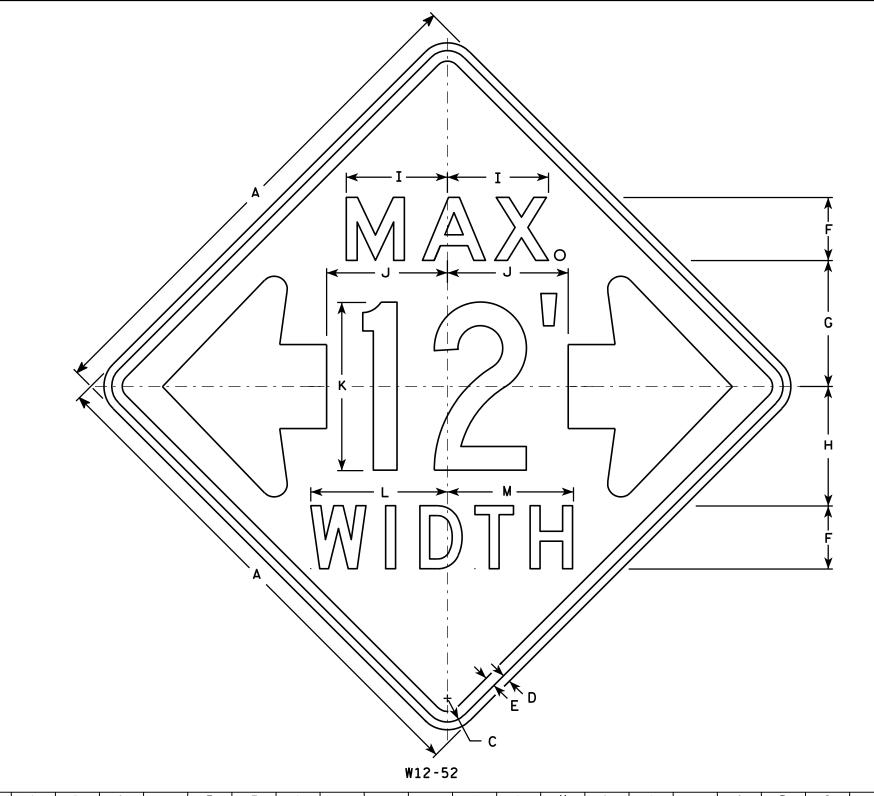
FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112.dgn

PLOT DATE: 29-MAR 2021 8:15

PLOT BY : dotc4c

PLOT NAME :

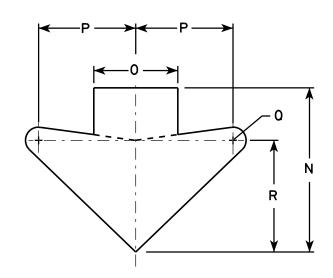
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Message Series See note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. The top line is series E, the numerals are series C, and the bottom line is series D.
- 6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	48		2 1/4	3/4	1	6	12	11 3/8	9 %	11 1/2	16	13	12	15 %	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 %	11 1/2	16	13	12	15 %	8	9 1/4	1 1/4	10 %									16.0
3																											
4																											
5																											

COUNTY:

STANDARD SIGN W12-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W1252.DGN

PROJECT NO:

HWY:

PLOT DATE: 16-MAR-2011 14:45

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 9.137199:1.000000

WISDOT/CADDS SHEET 42

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals to the nearest quarter mile and optically adjust spacing to achieve proper balance.

W057-52

HWY:

* See note 5

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 %	10 %	11 3/8	2	12													6.0
25	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
2M	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
3	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
5	48	36	1 3/8	1/2	5/8	8	7	6	6	19 ½	14	15	2 3/4	16 3/8													12.0

COUNTY:

STANDARD SIGN W057-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

SHEET NO:

DATE 3/21/17

PLATE NO. W057-52.2

....

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W05752.DGN

PROJECT NO:

PLOT DATE: 21-MAR-2017 08:53

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

PLOT SCALE: 8.139174:1.000000

TEMPORARY TRAIL EARTHWORK DETAIL

	AR (S	EA F)	UNADJUSTED IN	CREMENTAL VOL Y)		CUMULATIVE VOL	
STATION	CUT	ET. I	CUT	FT. 1	CUT	EXPANDED FILL	MASS
	CUT	FILL	CUT	FILL	1.00	1.25	ORDINATE
5+21	1.51	0.02	0	0	0	0	0
5+33	0.00	66.98	0	15	0	19	-19
5+49	1.26	0.03	0	20	0	44	-44
5+50	0.00	0.00	0	0	0	44	-44
5+84	1.11	0.06	1	0	1	44	-43
5+98	0.00	74.48	0	19	1	68	-67
6+15	0.49	20.73	0	30	1	105	-104
6+35	1.15	0.73	1	8	2	115	-113
6+46	0.00	0.00	0	0	2	115	-113

TEMPORARY TRAIL REMOVAL EARTHWORK DETAIL

STATION	AREA (SF)		UNADJUSTED INCREMENTAL VOL (CY)		CUMULATIVE VOL (CY)		
	СИТ	FILL	СИТ	FILL	CUT	EXPANDED FILL	MASS ORDINATE
					1.00	1.25	
5+21	0.39	0.05	0	0	0	0	0
5+33	68.81	0.00	15	0	15	0	15
5+49	0.66	0.06	21	0	36	0	36
5+50	0.00	0.00	0	0	36	0	36
5+84	0.82	0.03	1	0	37	0	37
5+98	76.23	0.00	20	0	57	0	57
6+15	22.34	0.27	31	0	88	0	88
6+35	1.76	0.34	9	0	97	0	97
6+46	0.00	0.00	0	0	97	0	97

Ε

9

COUNTY: VILAS CROSS SECTIONS: EARTHWORK DATA

F:\TR\JOBS\E2065C19\CIVIL 3D\SHEETSPLAN\11702060-090101-EW.DWG LAYOUT NAME - 11702060-090101-ew

HWY: USH 51

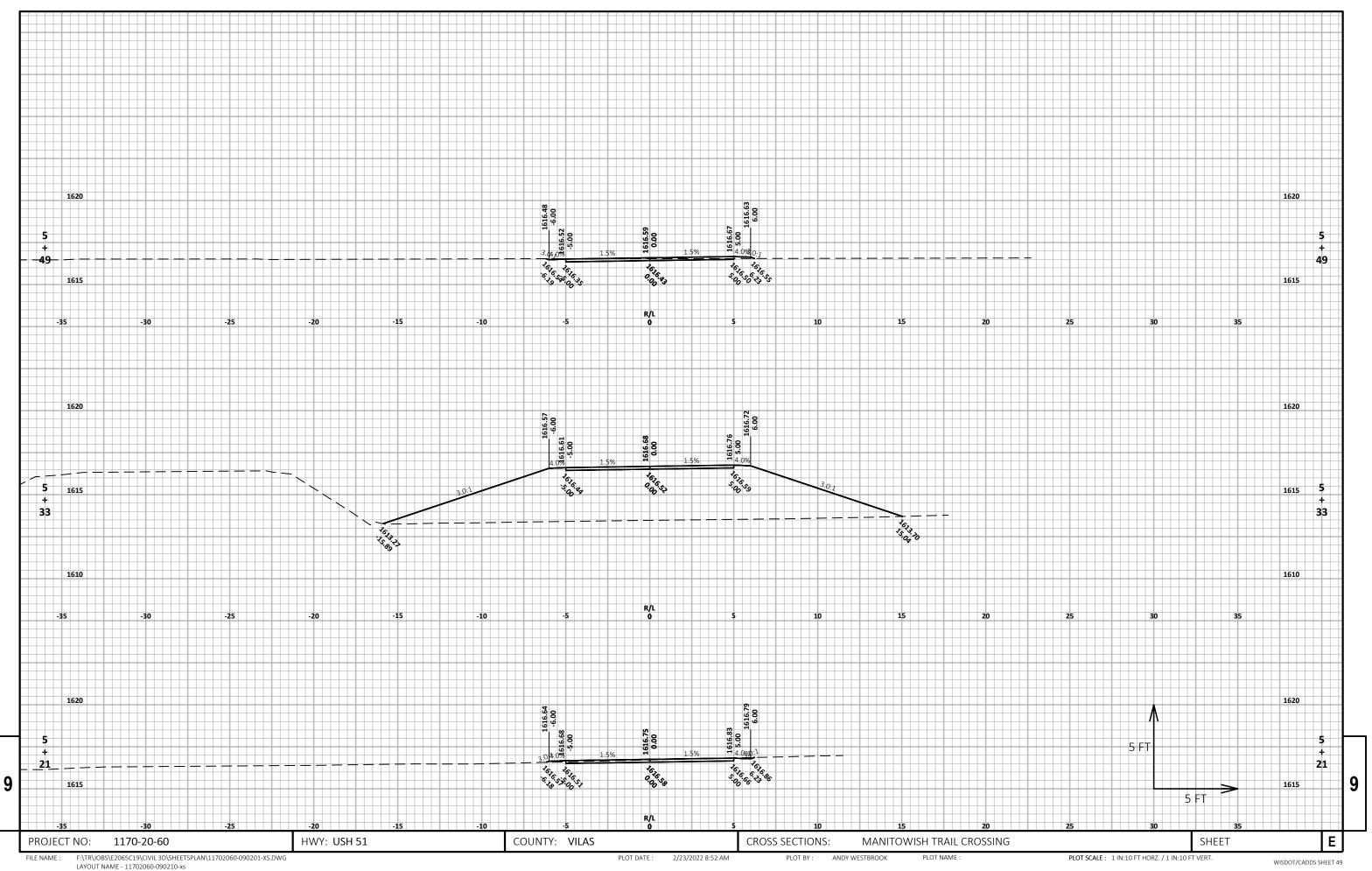
PROJECT NO: 1170-20-60

PLOT DATE : 10/27/2022 10:24 AM PLOT BY: OMNNI ASSOCIATES - ANDY WESTBROOK

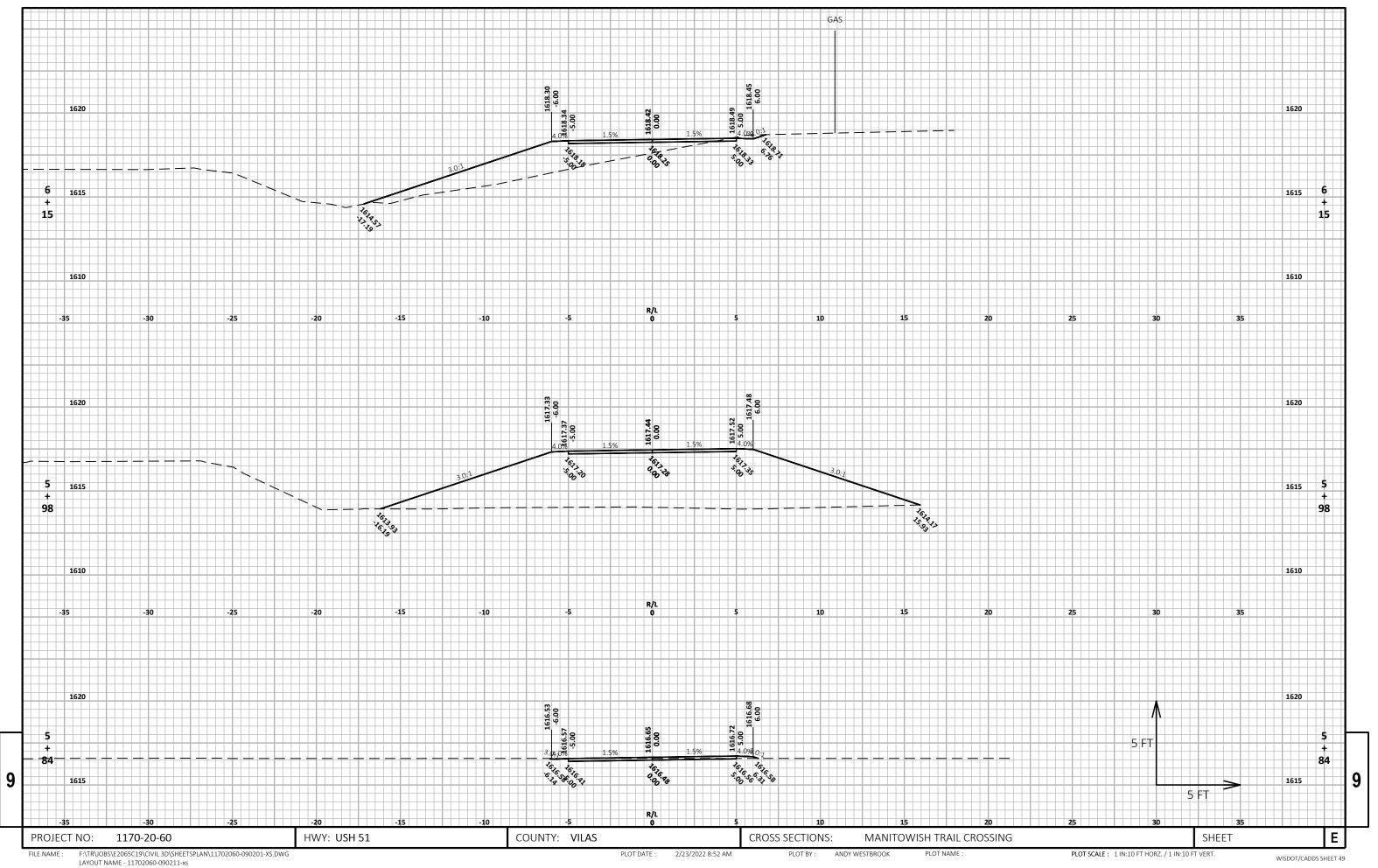
WISDOT/CADDS SHEET 49

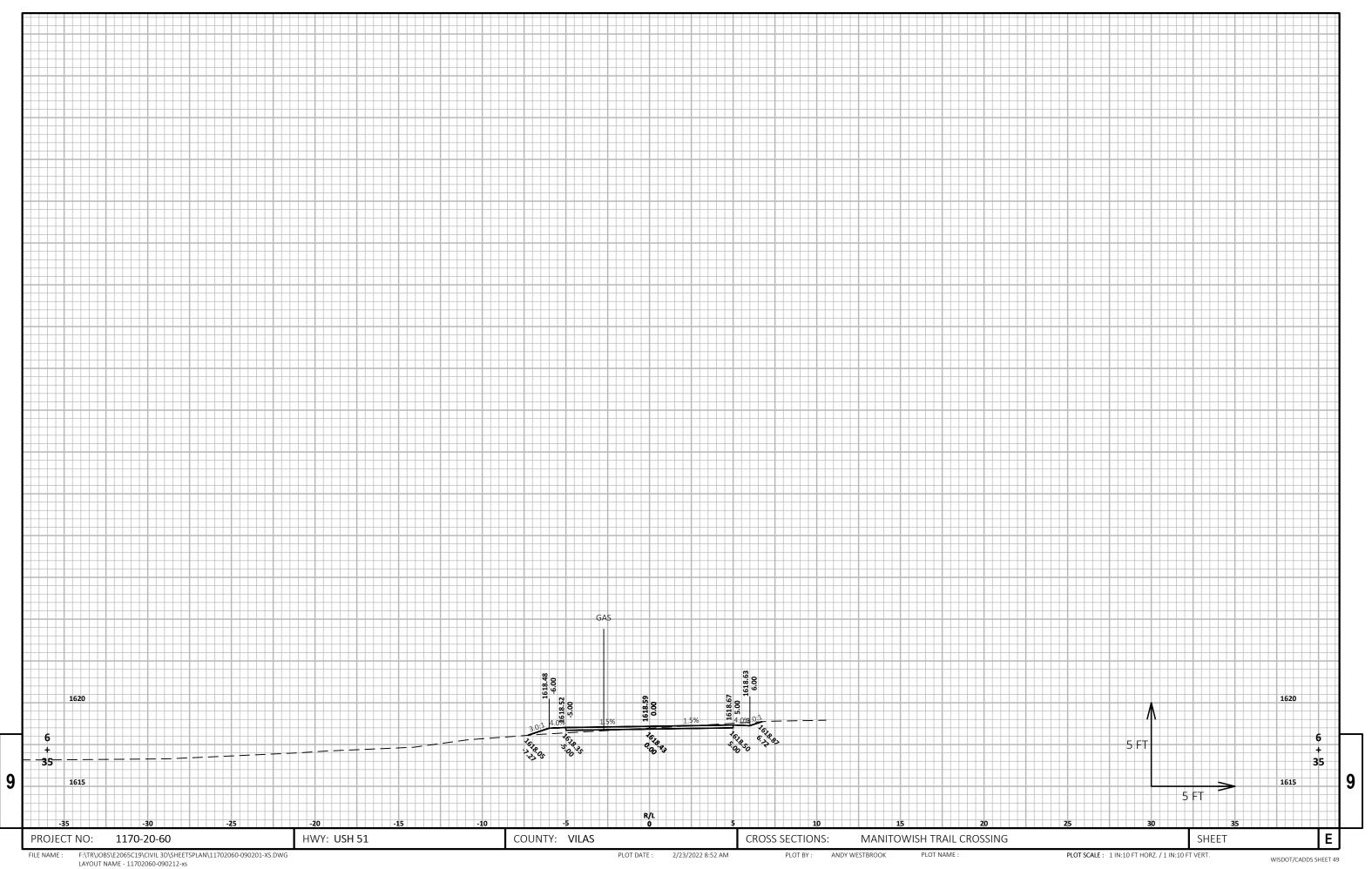
SHEET

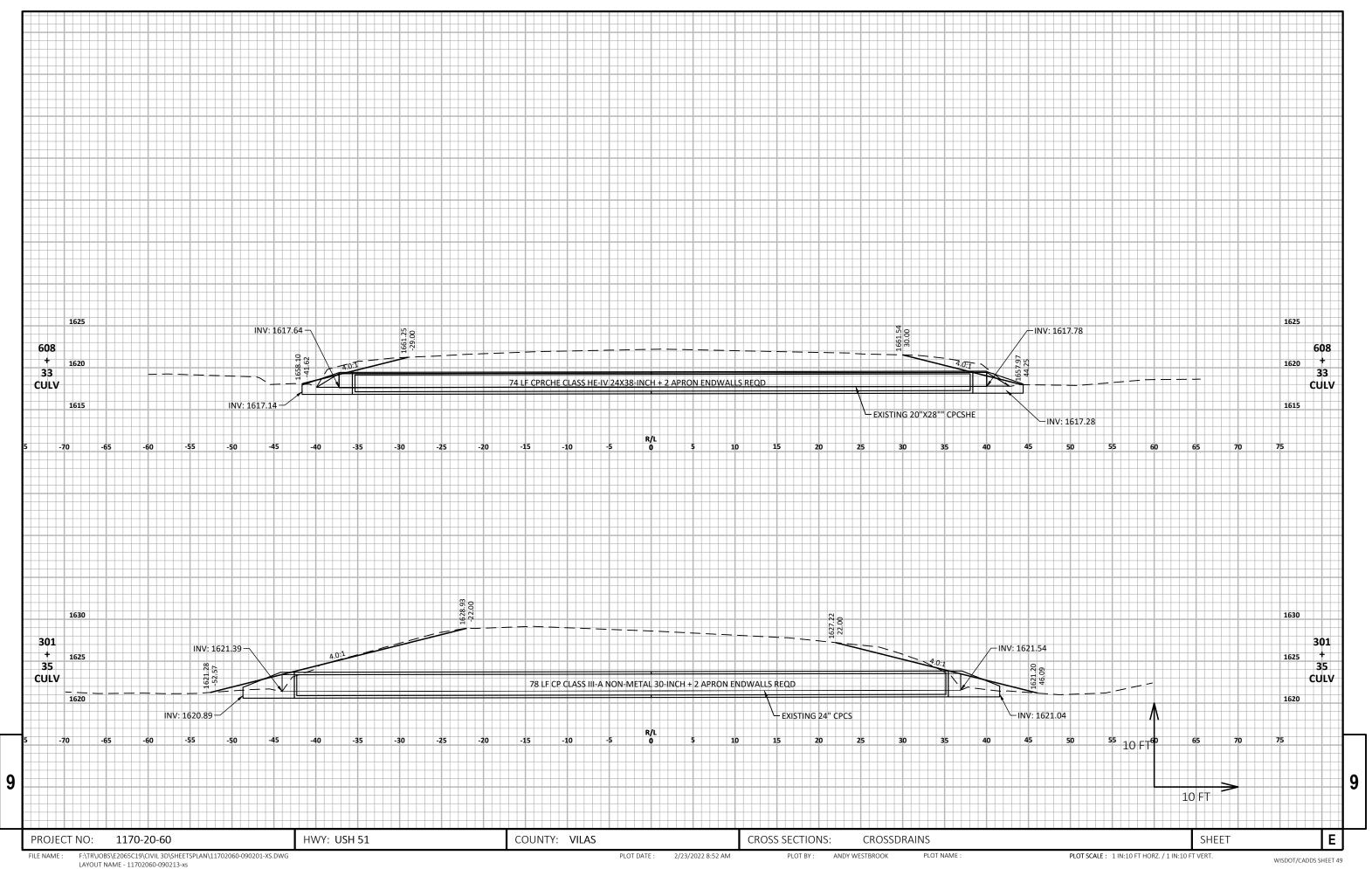
PLOT SCALE: 1 IN:5 FT HORZ. / 1 IN:5 FT VERT.

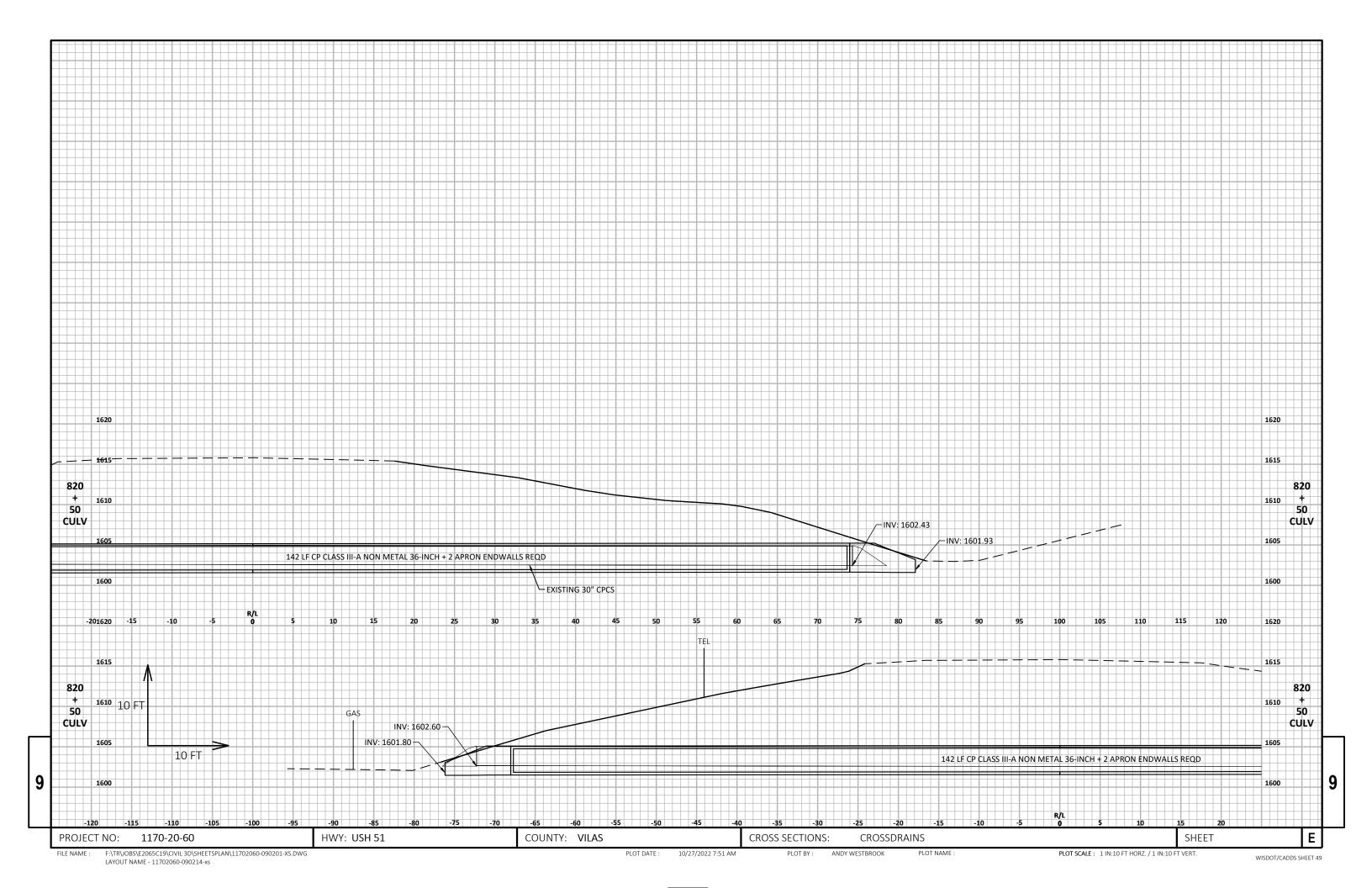


WISDOT/CADDS SHEET 49









Notes



Wisconsin Department of Transportation

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http://www.dot.wisconsin.gov