ORDER OF SHEETS

Typical Sections and Details

Estimate of Quantities

Plan and Profile

Cross Sections

Miscellaneous Quantities

Standard Detail Drawings

Section No.

TOTAL SHEETS = 88

DESIGN DESIGNATION

2025

CONVENTIONAL SYMBOLS

= 620

= 171

= 59/41

= 25 MPH

AADT

A.A.D.T.

DESIGN SPEED

CORPORATE LIMITS

LIMITED HIGHWAY EASEMENT

PROPOSED OR NEW R/W LINE

EXISTING RIGHT OF WAY

SLOPE INTERCEPT

REFERENCE LINE

EXISTING CULVERT

PROPOSED CULVERT

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

MARSH AREA

LOTTINE

D.H.V.

D.D.

986-00-57

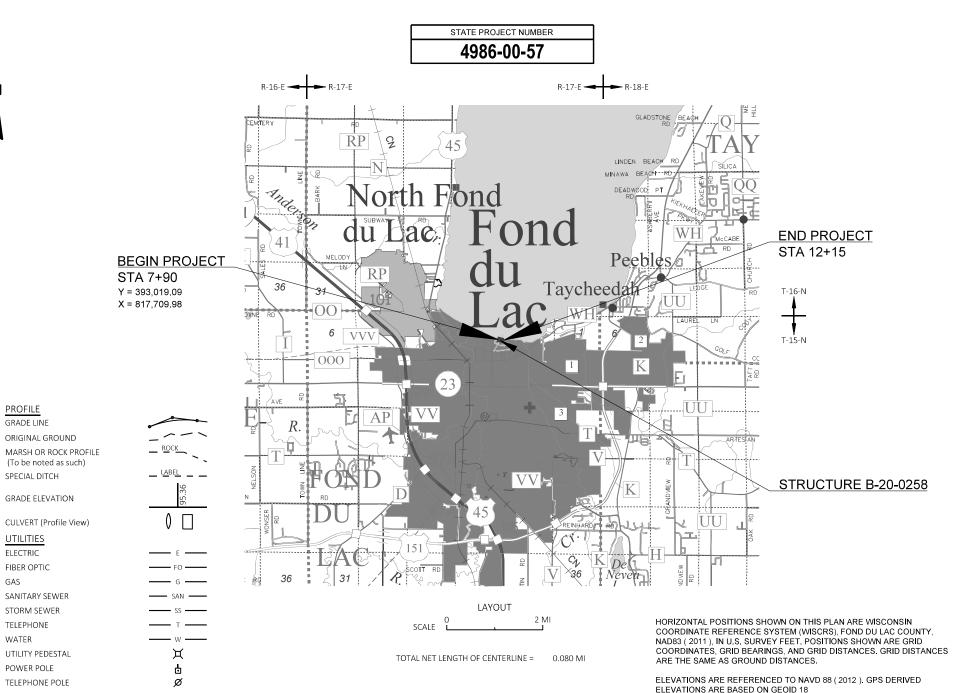
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

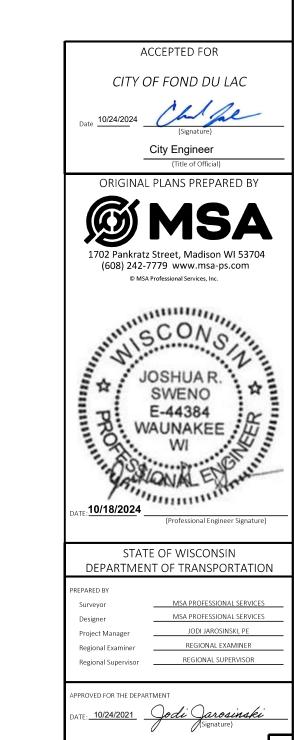
PLAN OF PROPOSED IMPROVEMENT

C FOND DU LAC, PROMEN DRIVE

LAKESIDE PARK LAGOON

LOCAL STREET **FOND DU LAC COUNTY**





FEDERAL PROJECT

WISC 2025383

CONTRACT

1

STATE PROJECT

4986-00-57

CONNOR GIRTEN

FILE NAME : G:\01\01878\01878071\CADD\SHEETSPLAN\010101-TI.DWG

9/5/2024 10:36 AM

Ε

SECTION 2 ORDER

GENERAL NOTES & UTILITIES TYPICAL SECTIONS CONSTRUCTION DETAILS PAVEMENT DETAILS EROSION CONTROL STORM SEWER LIGHTING PLAN

DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC. ATTN: JOSH SWENO, PE 1702 PANKRATZ STREET MADISON, WI 53704

PHONE: (608) 355-8852 EMAIL: JSWENO@MSA-PS.COM

DNR LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES

ATTN: MARTY DILLENBURG OSHKOSH SERVICE CENTER 625 E COUNTY ROAD Y, SUITE 70

OSHKOSH, WI 54901 PHONE: (920) 410-7428

EMAIL: MARTY.DILLENBURG@WISCONSIN.GOV

* - NOT A MEMBER OF DIGGERS HOTLINE



COMMUNICATIONS

AT&T

ATTN: CHARLES BARTELT 70 E DIVISION STREET FOND DU LAC, WI 54935 PHONE: (920) 410-5104 EMAIL: CB1461@ATT.COM

ELECTRIC

ALLIANT ENERGY ATTN: JOSH COLLIEN 883 W SCOTT STREET FOND DU LAC, WI 54937 PHONE: (920) 322-6646

EMAIL: JOSHUACOLLIEN@ALLIANTENERGY.COM

ALLIANT ENERGY ATTN: JOSH COLLIEN 883 W SCOTT STREET FOND DU LAC, WI 54937 PHONE: (920) 322-6646

EMAIL: JOSHUACOLLIEN@ALLIANTENERGY.COM

ELECTRIC

CITY OF FOND DU LAC ATTN: TOM CONTO, P.E. 160 SOUTH MACY STREET FOND DU LAC, WI 54935 PHONE: (920) 322-3477 EMAIL: TCONTO@FDL.WI.GOV

WATER

CITY OF FOND DU LAC ATTN: TOM CONTO, P.E. 160 SOUTH MACY STREET FOND DU LAC, WI 54935 PHONE: (920) 322-3477 EMAIL: TCONTO@FDL.WI.GOV

COMMUNICATIONS

CITY OF FOND DU LAC ATTN: TOM CONTO, P.E. 160 SOUTH MACY STREET FOND DU LAC, WI 54935 PHONE: (920) 322-3477 EMAIL: TCONTO@FDL.WI.GOV

SHEET

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP													
		A	4	В С						D				
	SLOP	E RANG	E (PERCENT)	SLOPI	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER		2-6	6 & OVER	0-2	2-6	6 & OVER		
MEDIAN STRIP TURF	0.19	0.20	0.24	0.19	0.22	0.26	0.20	0.23	0.30	0.20	0.25 0.32	0.30 0.40		
SIDE SLOPE TURF			0.25			0.27			0.28			0.30 0.38		
PAVEMENT:						0.40 - 0.60								
ASPHALT:						0.70 - 0.95								
CONCRETE:						0.80 - 0.95								
BRICK:						0.70 - 0.80								
DRIVES, WALKS:	WALKS: 0.75 - 0.85													
ROOFS:						0.75 - 0.95								
GRAVEL ROADS, SI	HOULDER	S	-			0.40 - 0.60			-					

HWY: LOCAL STREET

TOTAL PROJECT AREA = 1.43 ACRES

4986-00-57

PROJECT NO:

FILE NAME :

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 AREA THAT ARE NOT SHOWN.

ALL CURB & GUTTER RADII ARE MEASURED TO THE FLOW LINE.

GENERAL NOTES & UTILITIES

CURB & GUTTER PLAN GRADES ARE AT THE FLOW LINE UNLESS OTHERWISE NOTED.

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

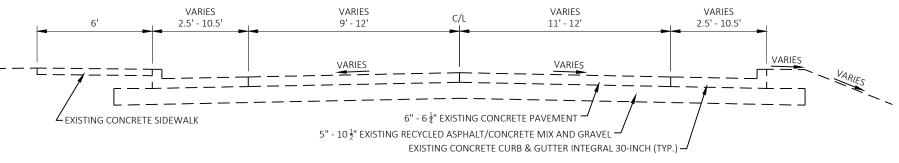
PROJECT BENCHMARKS AND CONTROL POINTS PROVIDED IN THESE PLANS SHALL BE USED FOR THE CONSTRUCTION OF THE BRIDGE AND APPROACHES. ADDITIONAL BENCHMARKS SHALL BE SET AT THE PROJECT SITE PRIOR TO THE BRIDGE REMOVAL.

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.67 ACRES

COUNTY: FOND DU LAC

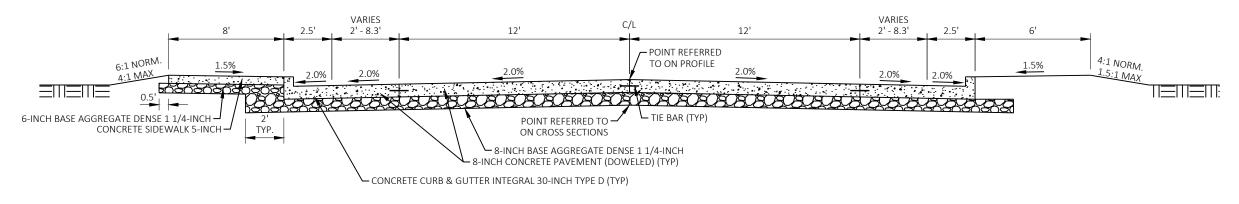
CONNOR GIRTEN PLOT NAME : G:\01\01878\01878071\CADD\SHEETSPLAN\020101 GN.DWG PLOT DATE : 1/7/2025 4:34 PM PLOT BY: PLOT SCALE : 1 IN:100 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 020101-gn





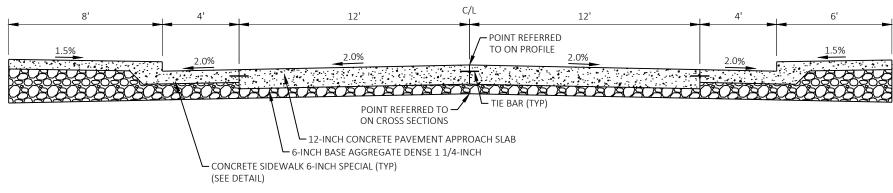
EXISTING PROMEN DRIVE TYPICAL SECTION

STA 7+90.00 - STA 9+68.20 STA 10+31.40 - STA 12+15.00



FINISHED PROMEN DRIVE TYPICAL SECTION

STA 7+90.00 - STA 9+59.42 STA 10+40.58 - STA 12+15.00

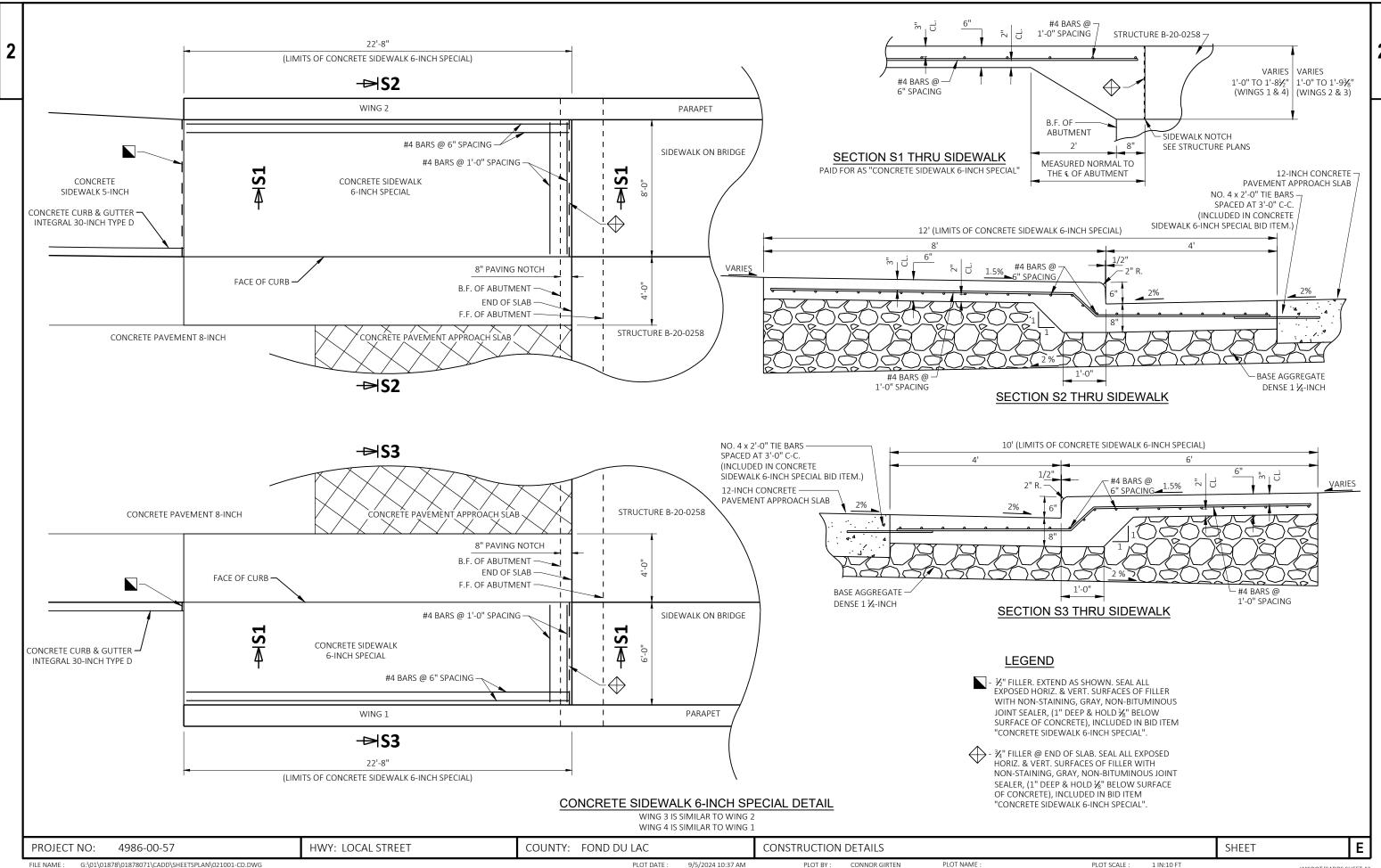


FINISHED PROMEN DRIVE TYPICAL SECTION

STA 9+59.42 - STA 9+74.42 STA 10+25.58 - STA 10+40.58

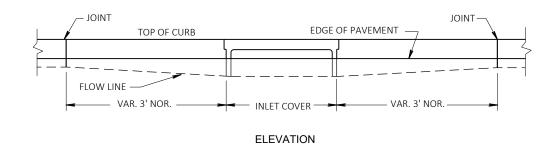
COUNTY: FOND DU LAC Ε PROJECT NO: 4986-00-57 HWY: LOCAL STREET TYPICAL SECTIONS SHEET CONNOR GIRTEN G:\01\01878\01878071\CADD\SHEETSPLAN\020301 TS.DWG PLOT BY: PLOT NAME PLOT SCALE : 1 IN:5 FT FILE NAME : 1/16/2025 6:20 AM WISDOT/CADDS SHEET 42

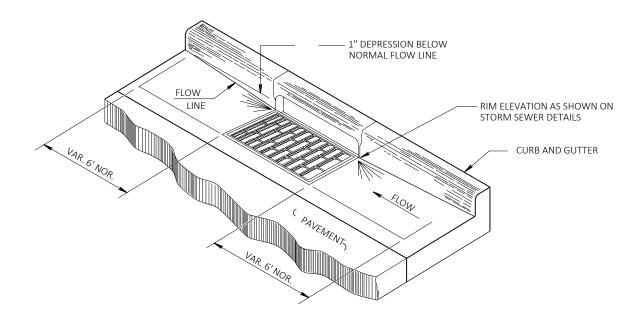
LAYOUT NAME - 020301-ts



FILE NAME : G:\01\01878\01878071\CADD\SHEETSPLAN\021001-CD.DWG PLOT DATE : 9/5/2024 10:37 AM PLOT BY : CONNOR GIRTEN LAYOUT NAME - 021001-cd

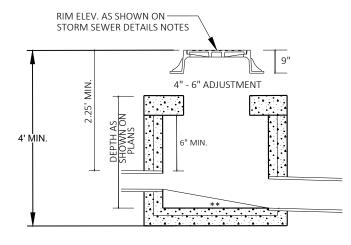
WISDOT/CADDS SHEET 42





DETAIL OF CURB AND GUTTER AT INLETS

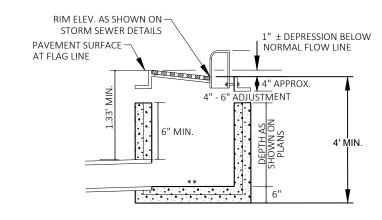
(TYPE 3-H INLET SHOWN)



DETAIL FOR COMPUTING MANHOLE ELEVATIONS

** FILL WITH CONCRETE IF BOTTOM OF STRUCTURE IS BELOW LOWEST INVERT.

ADJUSTMENT RINGS SHALL BE HDPE ADJUSTING RINGS. CONCRETE ADJUSTMENT RINGS SHALL NOT BE ALLOWED.



DETAIL FOR COMPUTING INLET ELEVATIONS

 $\ensuremath{^{**}}$ FILL WITH CONCRETE IF BOTTOM OF STRUCTURE IS BELOW LOWEST INVERT.

ADJUSTMENT RINGS SHALL BE HDPE ADJUSTING RINGS. CONCRETE ADJUSTMENT RINGS SHALL NOT BE ALLOWED.

PROJECT NO: 4986-00-57 HWY: LOCAL STREET COUNTY: FOND DU LAC CONSTRUCTION DETAILS SHEET **E**

FILE NAME: G:\01\01878\01878\071\CADD\SHEETSPLAN\021001-CD.DWG PLOT DATE: 9/5/2024 4:15 PM PLOT BY: CONNOR GIRTEN PLOT NAME: 1 IN:10 FT WISDOT/CADDS SHEET 42

LAYOUT NAME - 021002-cd

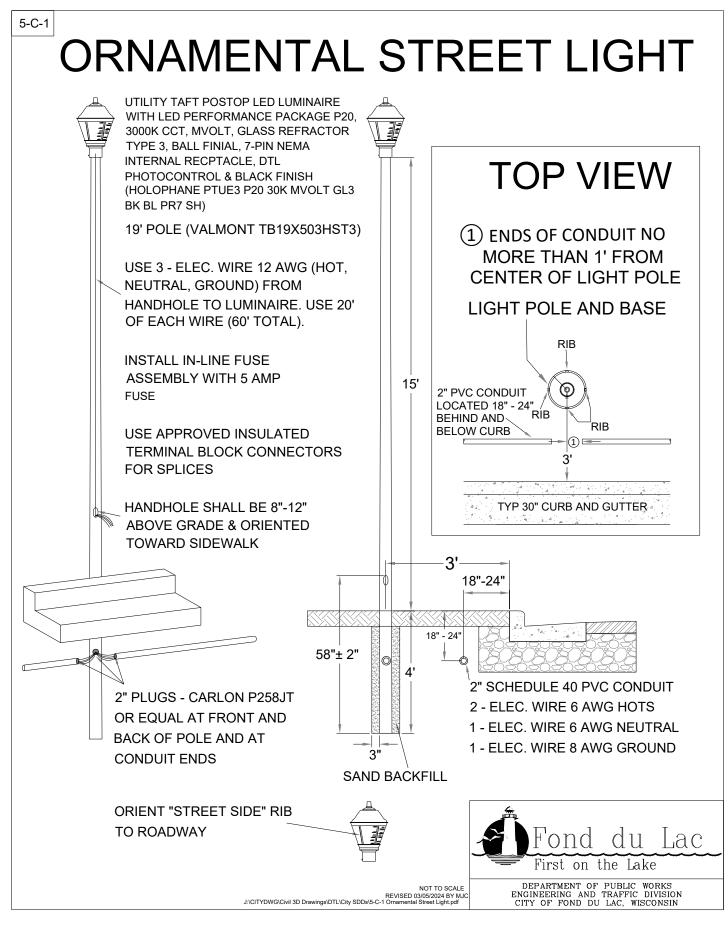
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Ε

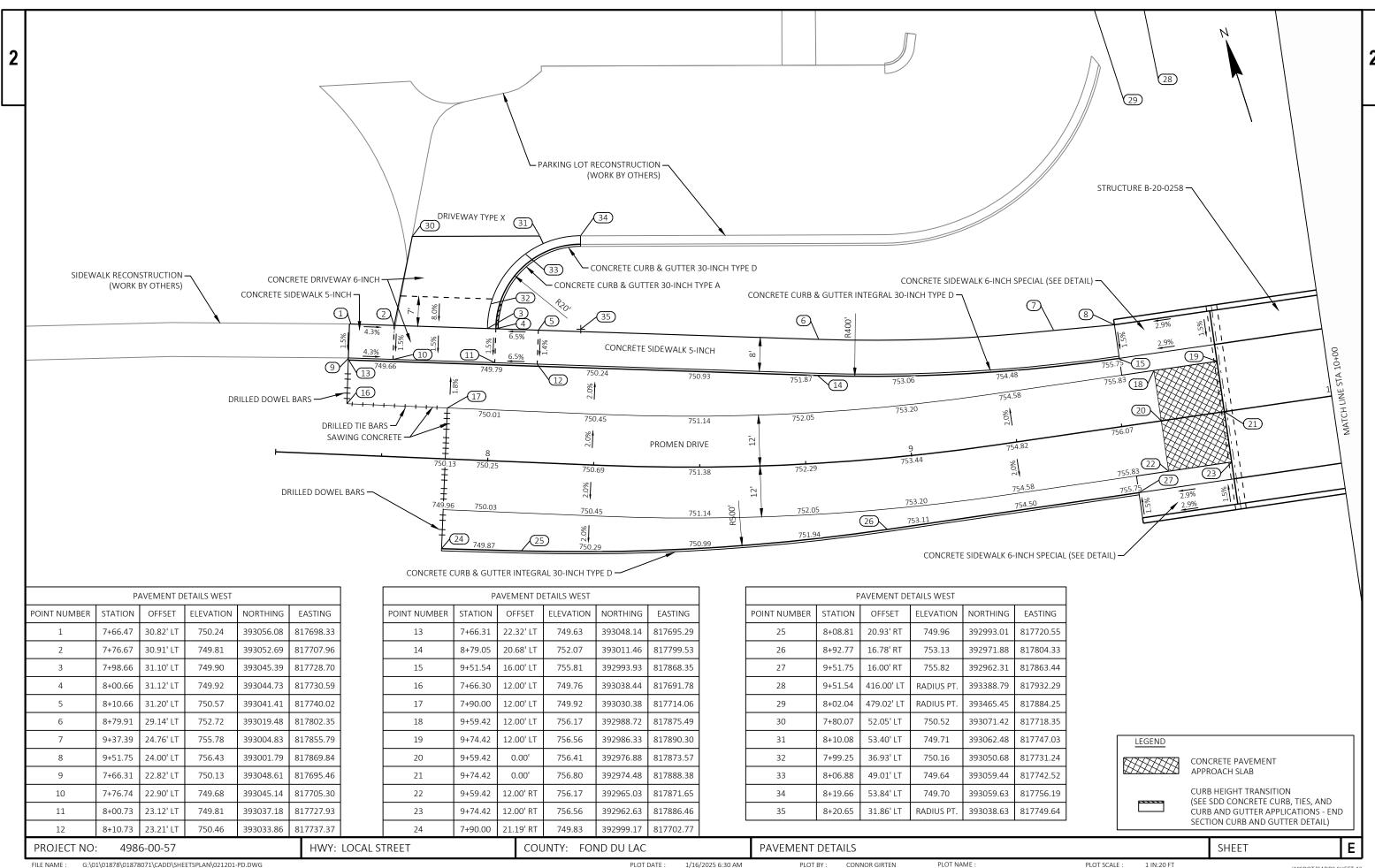
WISDOT/CADDS SHEET 42

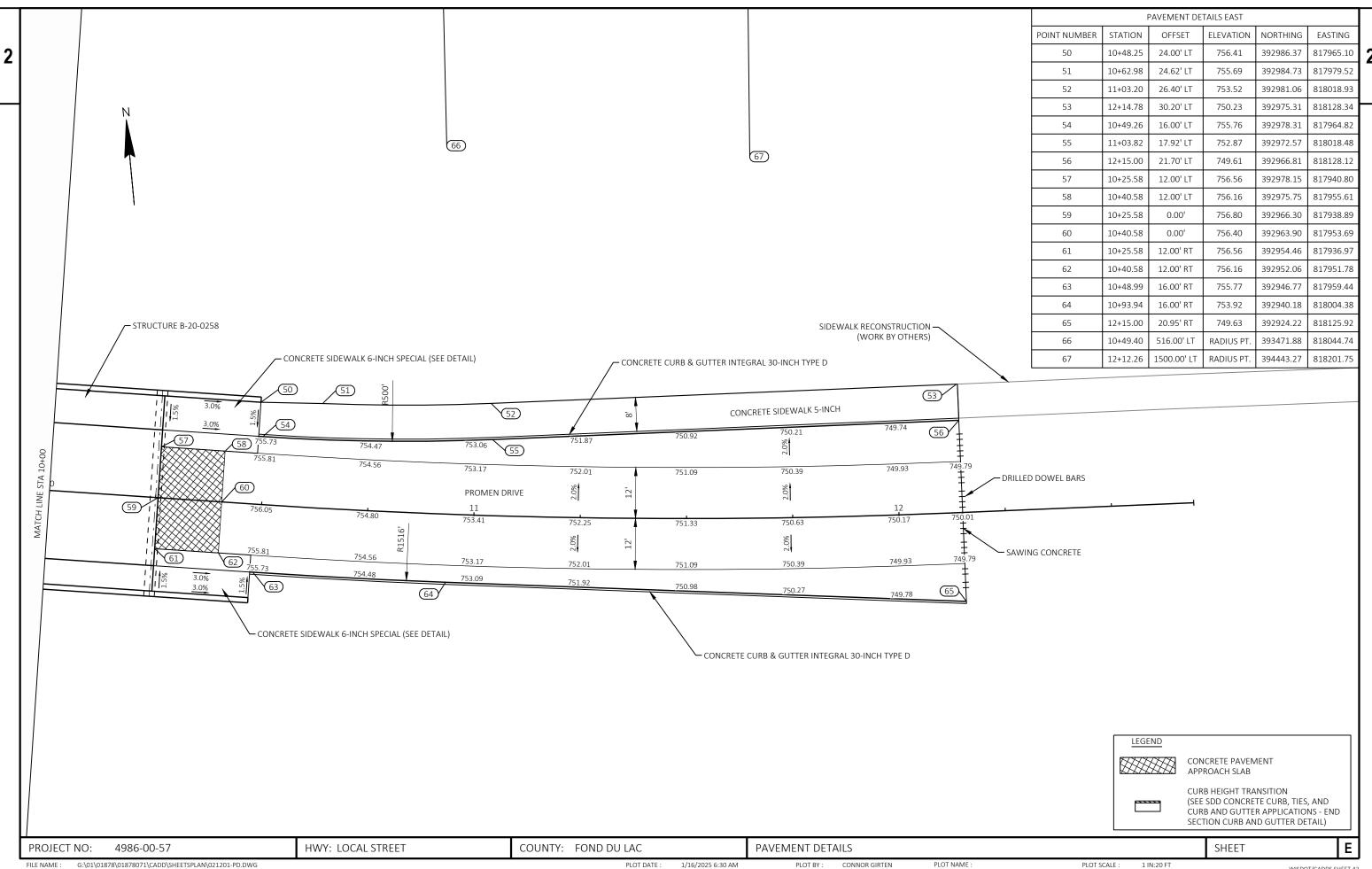
SHEET

2

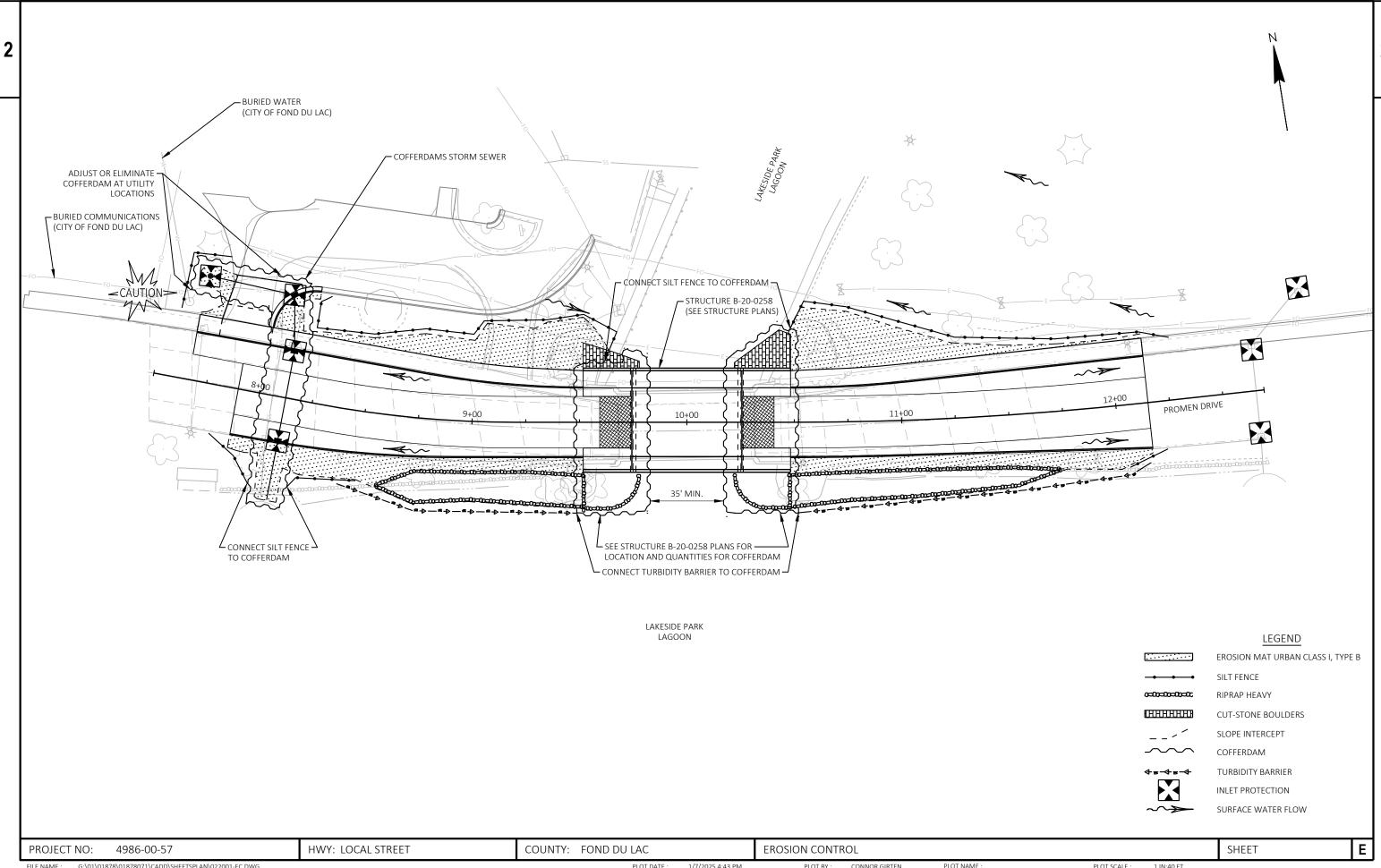


PROJECT NO: 4986-00-57 HWY: LOCAL STREET COUNTY: FOND DU LAC CONSTRUCTION DETAILS

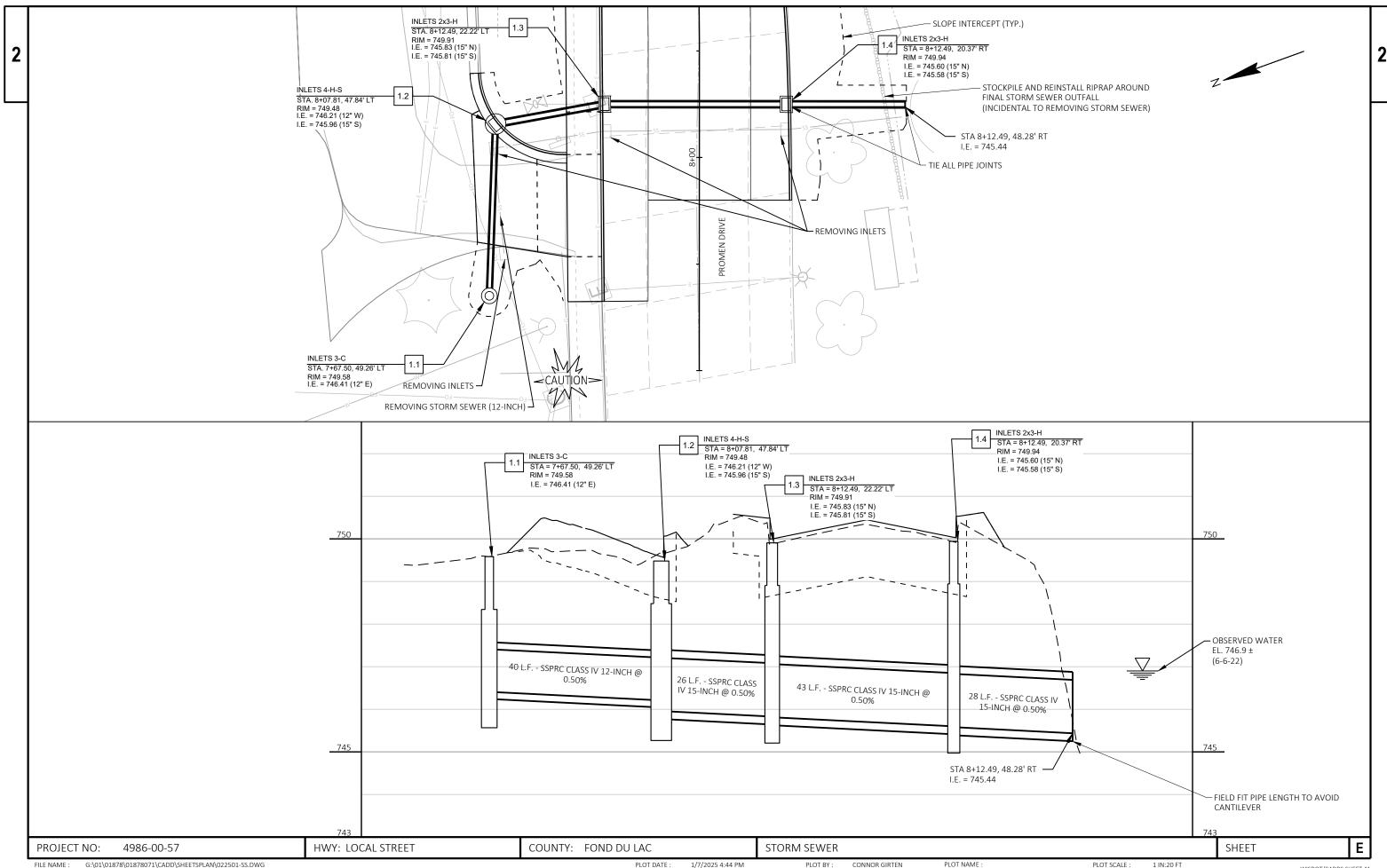


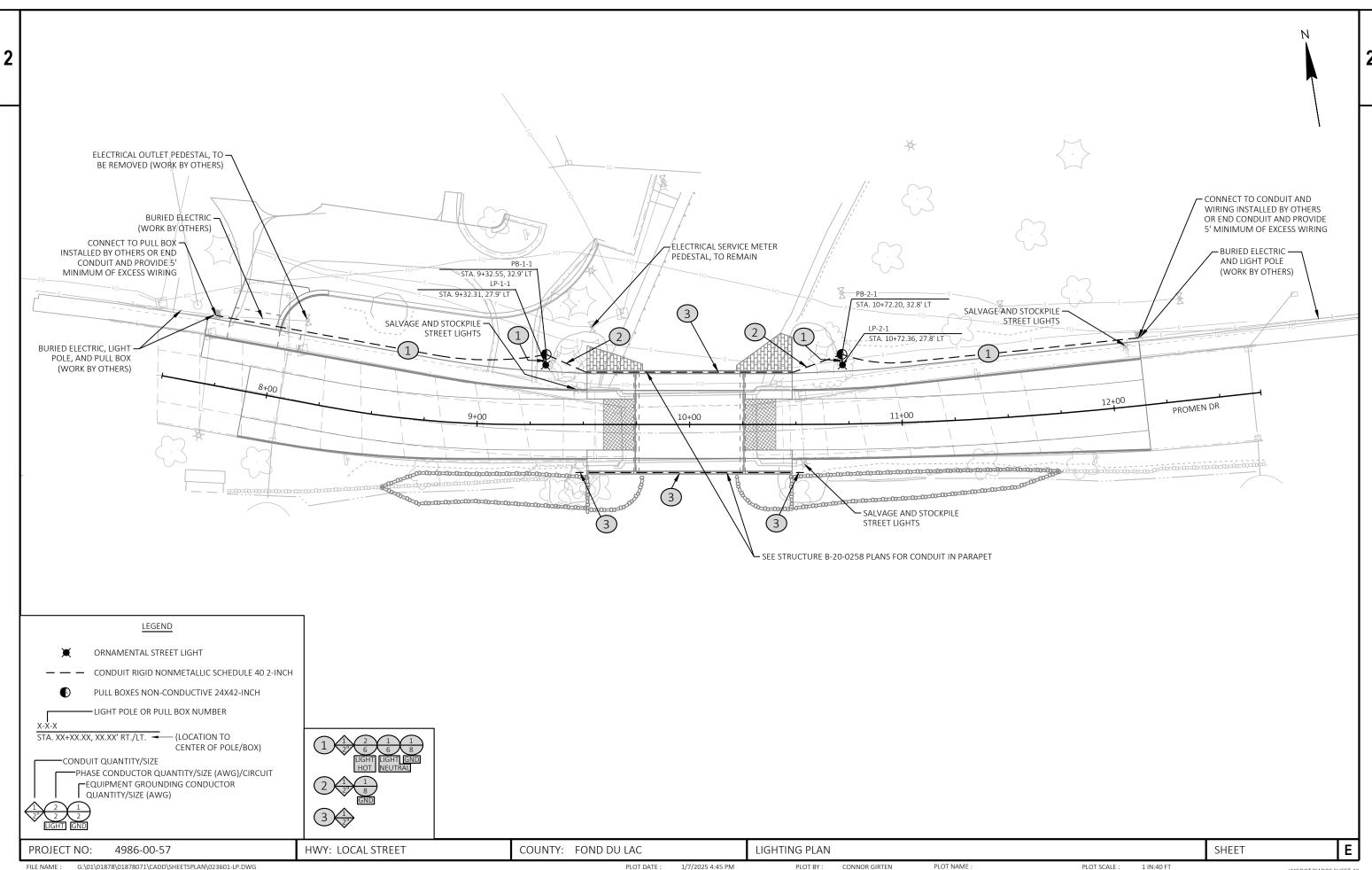


FILE NAME : G:\01\01878\01878\011878071\CADD\SHEETSPLAN\021201-PD.DWG PLOT DATE : 1/16/2025 6:30 AM PLOT BY : CC LAYOUT NAME - 021202-pd



FILE NAME: G\01\01878\01878071\CADD\SHEETSPLAN\022001-EC.DWG PLOT DATE: 1/7/2025 4:43 PM PLOT BY: CONNOR GIRTEN PLOT NAME: 1 IN:40 FT WISDOT/CADDS SHEET 42 A YOUT NAME - 022001-ec





ME: G:\01\01878\01878071\CADD\SHEETSPLAN\023601-LP.DWG PLOT BY: CONNOR GIRTEN PLOT NAME: 1 IN:40 FT WISDOT/CADDS SHEET 42

LAYOUT NAME - 023601-lp

0096

624.0100

625.0100 Topsoil

Water

MGAL

SY

17.000

940.000

17.000

940.000

					4986-00-57
Line	Item	Item Description	Unit	Total	Qty
0002	201.0220	Grubbing	ID	192.000	192.000
0004	203.0250	Removing Structure Over Waterway Remove Debris (structure) 01. P-20-720	EACH	1.000	1.000
0006	204.0100	Removing Concrete Pavement	SY	1,528.000	1,528.000
8000	204.0150	Removing Curb & Gutter	LF	36.000	36.000
0010	204.0155	Removing Concrete Sidewalk	SY	257.000	257.000
0012	204.0220	Removing Inlets	EACH	4.000	4.000
0014	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	121.000	121.000
0016	205.0100	Excavation Common	CY	325.000	325.000
0018	206.1001	Excavation for Structures Bridges (structure) 01. B-20-258	EACH	1.000	1.000
0020	206.5001	Cofferdams (structure) 01. B-20-258	EACH	1.000	1.000
0022	206.5001	Cofferdams (structure) 02. Storm Sewer	EACH	1.000	1.000
0024	208.0100	Borrow	CY	236.000	236.000
0026	210.1500	Backfill Structure Type A	TON	2,410.000	2,410.000
0028	213.0100	Finishing Roadway (project) 01. 4986-00-57	EACH	1.000	1.000
0030	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,034.000	1,034.000
0032	415.0080	Concrete Pavement 8-Inch	SY	1,283.000	1,283.000
0034	415.0410	Concrete Pavement Approach Slab	SY	80.000	80.000
0036	415.4100	Concrete Pavement Joint Filling	SY	1,553.000	1,553.000
0038	416.0610	Drilled Tie Bars	EACH	9.000	9.000
0040	416.0620	Drilled Dowel Bars	EACH	50.000	50.000
0042	502.0100	Concrete Masonry Bridges	CY	632.000	632.000
0044	502.3200	Protective Surface Treatment	SY	285.000	285.000
0046	502.3210	Pigmented Surface Sealer	SY	126.000	126.000
0048	505.0400	Bar Steel Reinforcement HS Structures	LB	32,620.000	32,620.000
0050	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	63,220.000	63,220.000
0052	516.0500	Rubberized Membrane Waterproofing	SY	28.000	28.000
0054	517.1015.S	Concrete Staining Multi-Color (structure) 01. B-20-258	SF	1,250.000	1,250.000
0056	517.1050.S	Architectural Surface Treatment (structure) 01. B-20-258	SF	1,250.000	1,250.000
0058	550.0500	Pile Points	EACH	40.000	40.000
0060	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	2,900.000	2,900.000
0062	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	23.000	23.000
0064	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	8.000	8.000
0066	601.0452	Concrete Curb & Gutter Integral 30-Inch Type D	LF	681.000	681.000
0068	602.0410	Concrete Sidewalk 5-Inch	SF	2,575.000	2,575.000
0070	602.0810	Concrete Driveway 6-Inch	SY	78.000	78.000
0072	606.0300	Riprap Heavy	CY	353.000	353.000
0074	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	40.000	40.000
0076	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	97.000	97.000
0078	611.0612	Inlet Covers Type C	EACH	1.000	1.000
0800	611.0624	Inlet Covers Type H	EACH	2.000	2.000
0082	611.0639	Inlet Covers Type H-S	EACH	1.000	1.000
0084	611.3003	Inlets 3-FT Diameter	EACH	1.000	1.000
0086	611.3004	Inlets 4-FT Diameter	EACH	1.000	1.000
0088	611.3230	Inlets 2x3-FT	EACH	2.000	2.000
0090	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	220.000	220.000
0092	618.0100	Maintenance and Repair of Haul Roads (project) 01. 4986-00-57	EACH	1.000	1.000
0094	619.1000	Mobilization	EACH	1.000	1.000
0006	624 0400	Water	MCAL	17.000	17,000

4986-00-57	

Line	Item	Item Description	Unit	Total	Qty		
0100	627.0200	Mulching	SY	200.000	200.000		
0102	628.1504	Silt Fence	LF	608.000	608.000		
104	628.1520	Silt Fence Maintenance	LF	608.000	608.000		
106	628.1905	Mobilizations Erosion Control	EACH	7.000	7.000		
0108	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000		
)110	628.2008	Erosion Mat Urban Class I Type B	SY	940.000	940.000		
0112	628.6005	Turbidity Barriers	SY	413.000	413.000		
0114	628.7005	Inlet Protection Type A	EACH	5.000	5.000		
0116	628.7015	Inlet Protection Type C	EACH	5.000	5.000		
0118	629.0210	Fertilizer Type B	CWT	0.500	0.500		
0120	630.0140	Seeding Mixture No. 40	LB	19.000	19.000		
0120	630.0500	Seed Water	MGAL	24.000	24.000		
0124	634.0812	Posts Tubular Steel 2x2-Inch X 12-FT	EACH	3.000	3.000		
0124	638.3000	Removing Small Sign Supports	EACH	4.000	4.000		
					1.000		
0128	642.5001	Field Office Type B	EACH	1.000			
0130	643.0300	Traffic Control Drums	DAY	1,500.000	1,500.000		
0132	643.0420	Traffic Control Barricades Type III	DAY	2,100.000	2,100.000		
0134	643.0705	Traffic Control Warning Lights Type A	DAY	3,000.000	3,000.000		
0136	643.0900	Traffic Control Signs	DAY	1,500.000	1,500.000		
0138	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000		
0140	643.5000	Traffic Control	EACH	1.000	1.000		
0142	644.1810	Temporary Pedestrian Barricade	LF	36.000	36.000		
0144	645.0111	Geotextile Type DF Schedule A	SY	360.000	360.000		
146	645.0120	Geotextile Type HR	SY	765.000	765.000		
0148	646.1020	Marking Line Epoxy 4-Inch	LF	850.000	850.000		
0150	650.4500	Construction Staking Subgrade	LF	399.000	399.000		
0152	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	8.000	8.000		
0154	650.6501	Construction Staking Structure Layout (structure) 01. B-20-0258	EACH	1.000	1.000		
0156	650.7000	Construction Staking Concrete Pavement	LF	399.000	399.000		
0158	650.9500	Construction Staking Sidewalk (project) 01. 4986-00-57	EACH	1.000	1.000		
0160	650.9911	Construction Staking Supplemental Control (project) 01. 4986-00-57	EACH	1.000	1.000		
0162	650.9920	Construction Staking Slope Stakes	LF	399.000	399.000		
0164	652.0125	Conduit Rigid Metallic 2-Inch	LF	24.000	24.000		
0166	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	528.000	528.000		
0168	653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	2.000	2.000		
0170	655.0610	Electrical Wire Lighting 12 AWG	LF	120.000	120.000		
0172	655.0620	Electrical Wire Lighting 8 AWG	LF	404.000	404.000		
0174	655.0625	Electrical Wire Lighting 6 AWG	LF	1,080.000	1,080.000		
0174	690.0150	Sawing Asphalt	LF	33.000	33.000		
0178	690.0250	Sawing Concrete	LF	129.000	129.000		
		Incentive Strength Concrete Structures					
0180	715.0502 715.0720	Incentive Strength Concrete Structures Incentive Compressive Strength Concrete Pavement	DOL	3,792.000 500.000	3,792.000		
0182		, ,	DOL		500.000		
0184	ASP.1T0A		HRS	1,200.000	1,200.000		
0186	ASP.1T0G	•	HRS	600.000	600.000		
0188	SPV.0060	Special 01. Salvage and Stockpile Street Lights	EACH	3.000	3.000		
0190	SPV.0060	Special 02. Ornamental Street Light	EACH	2.000	2.000		
0192	SPV.0060	Special 03. Remove, Salvage, and Reinstall Stone Retaining Wall	EACH	1.000	1.000		
0194	SPV.0165	Special 01. Concrete Sidewalk 6-Inch Special	SF	998.000	998.000		
0196	SPV.0165	Special 02. Cut-Stone Boulders	SF	270.000	270.000		

	01/24/2025 09:17:		
3	Page	3	3

4986-00-57

		<u>GRUB</u>	<u>BING</u>																	
																<u>R</u>	REMOVING STO	RM SEWER		
CATEGO	RY STA	ATION LO	OCATION	201.022 GRUBBIN ID					REMOVING CON	ICRETE ITEMS								204.0220 REMOVING		204.0245.01 ING STORM SEWER
0010	8	+01	32'RT	18						204.0100	204.0150	204.0155						INLETS		E) (01. 12-INCH)
0010			20'RT	6						REMOVING	DENAOVUNIC	REMOVING		CATE	GORY STATION	TO STATION	LOCATION	EACH		LF
0010 0010	9	+46	32'RT 33'RT	10 10		CATECO	ODV STATI	ON TO STATIO	LOCATION	CONCRETE PAVEMENT	REMOVING CURB & GUTTER	CONCRETE		003	10 7+77	- 8+10	LT & RT	4		121
0010			26'RT 30'RT	16 12		CATEGO	ORY STATE	JN 10 STATIO	LOCATION	SY	LF	SY					TOTAL 0010) 4		121
0010			28'LT	16		0010	0 7+60	6 - 9+68	PROMEN DR	791		133								
0010	9	+44	30'LT	8		0010			LT, DWY		36									
0010			33'LT	12		0010	0 10+3	1 - 12+15	PROMEN DR	737		124								
0010			32'RT 39'LT	12 12		-			TOTAL 0010	1,528	36	257					COFFERDA	MS (STORM SEWE	<u>(R)</u>	
0010			31'LT	16					TOTALOUIG	1,320	30	231								
0010			21'RT	20															206	.5001.02
0010	13		24'RT	24																MS (STRUCTURE)
																				ORM SEWER)
		TC	TAL 0010	192											CATEGORY	STATION	TO STATIO	N LOCATION		EACH
															0010	7+58	- 8+22	LT & RT		1
							<u>EAR</u> 3	<u> THWORK</u>										TOTAL 0010		1
							205.0100 EXCAVATION				208.0100						BASE AG	GGREGATE ITEMS		
							COMMON	FILL	EXPANDED FI	LL WASTE	BORROW									
		CATEGOR	Y STAT	ION TO S	TATION	LOCATION	CY	CY (1)	CY(1)(2)	CY (1)	CY								305.0120	624.0100
		2010	7.		0.50	DOMEN DD	400	265	244	150	456								ASE AGGREGA	
		0010 0010	7+6 10+			ROMEN DR ROMEN DR	188 137	265 167	344 217	-156 -80	156 80				CATEGORY	STATION TO	STATION	LOCATION	ENSE 1 1/4-ING TON	CH WATER MGAL
		0010	10.		12.13	NOWEN DI	137	107	21,	00	00						5.7.1.1011	200,111011		
					Т	OTAL 0010	325	432	561	-236	236				0010	7+66 -		PROMEN DR	543	9
		(4) 1107.													0010	7+72 -		DRIVEWAY	27	1
			BID ITEM - FO (PANSION 30		ATIONAL PUF	RPOSES ONLY.									SW	10+25 -	12+15 F	PROMEN DR	464	7
		(2)-111111	T ANSION SC	J 70													-	TOTAL 0010	1,034	17
															<u>CURI</u>	3 & GUTTER				
					CONCRE	TE PAVEMENT I	TEMS_								601.0409	(601.0411		.0452	650.5500
															CONCRETE CURB 8		CRETE CURB &	GUTTER IN	TE CURB & ITEGRAL 30-	CONSTRUCTION STAKING CURB GUTTER
					415.008 CONCRET			415.4100 CONCRETE	416.0610	416.0620	CATEGORY	STATION TO	STATION	LOCATION	GUTTER 30-INCH TYF	'EA GUTTER	R 30-INCH TYPE LF		TYPE D LF	AND CURB & GUTTER LF
					PAVEMENT			/EMENT JOINT	DRILLED TIE	ORILLED DOWEL	CAILGOIN	STATION TO	STATION	LOCATION	LI		LI			LI
					INCH		ACH SLAB	FILLING	BARS	BARS	0010	7+66 -	9+52	LT					82	
CATEGORY	STATION	TO STA	ATION LO	CATION	SY	:	SY	SY	EACH	EACH	0010	7+90 -		RT					65	
0010	7+66	0	+74 PRC	OMEN DR	663		40	800	0	25	0010	7+99 - 10+48 -		LT	23		8		 65	8
0010 0010	10+25			OMEN DR	620		40 40	753	9 	25 25	0010 0010	10+48 - 10+48 -		LT RT					65 69	
			ТОТ	TAL 0010	1,283	8	80	1,553	9	50				TOTAL 0010	23		8	6	81	8
PROJECT N	IO:	1986-00-	57		Ш\\/	Y: LOCAL	STREET	1	COUNTY: FO			MISCELLA	ΔΝΕΟΠΟ	QUANTITI					SHE	ET:
I NOULOT I	· ·	1000-00	U I		1100	i. LOUAL	OTNELT		5001111.10	714D DO LAC		IVIIOOLLL/	, 12000	QUANTITI					1 51 11	- L 1 .

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ı)
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<u>SIDEWALK</u>

					602.0410	602.0810	SPV.0165.01
					CONCRETE	CONCRETE	SPECIAL (01. CONCRETE
					SIDEWALK 5-	DRIVEWAY 6-	SIDEWALK 6-
					INCH	INCH	INCH SPECIAL)
CATEGORY	STATION	TO	STATION	LOCATION	SF	SY	SF
0010	7+66	-	9+74	LT	1,264	78	
0010	9+52	-	9+74	LT			272
0010	10+26	-	10+48	LT			272
0010	10+48	-	12+15	LT	1,311		
				TOTAL 0010	2,575	78	544
0030	9+52	_	9+74	RT			227
0030	10+26	-	10+48	RT			227
				TOTAL 0030	0	0	454
				PROJECT TOTAL	2,575	78	998

RIPRAP ITEMS

					*	*
					606.0300	645.0120
						GEOTEXTILE TYPE
					RIPRAP HEAVY	HR
CATEGORY	STATION	TO	STATION	LOCATION	CY	SY
0010	8+57	-	9+52	RT	97	193
0010	10+48	-	11+75	RT	113	231
0010	UNDI	STRIE	BUTED		53	106
	•		•	TOTAL 0010	263	530

^{*}ADDITIONAL QUANTITIES LISTED IN STRUCTURE PLANS

STORM SEWER PIPE

				608.0412	608.0415
				STORM SEWER	STORM SEWER
				PIPE	PIPE
				REINFORCED	REINFORCED
				CONCRETE CLASS	CONCRETE CLASS
				IV 12-INCH	IV 15-INCH
CATEGORY	STRUCTURE	TO	STRUCTURE	LF	LF
0010	1.1	-	1.2	40	
0010	1.2	-	1.3		26
0010	1.3	-	1.4		43
0010	1.4	-	OUTFALL		28
	_		TOTAL 0010	40	97

STORM SEWER STRUCTURES

							611.0612	611.0624	611.0639	611.3003	611.3004	611.3230
							INLET COVERS	INLET COVERS	INLET COVERS	INLETS 3-FT	INLETS 4-FT	
	STRUCTURE			GRATE/RIM	INVERT	STRUCTURE	TYPEC	TYPE H	TYPE H-S	DIAMETER	DIAMETER	INLETS 2X3-FT
CATEGORY	NO.	STATION	LOCATION	ELEV.	ELEV.	DEPTH (FT)	EACH	EACH	EACH	EACH	EACH	EACH
0010	1.1	7+68	49.3'LT	749.58	746.41	1.92	1			1		
0010	1.2	8+08	47.9'LT	749.48	745.96	2.69			1		1	
0010	1.3	8+10	22.2'LT	749.91	745.81	3.27		1				1
0010	1.4	8+12	20.4' RT	749.95	745.58	3.54		1				1
						TOTAL 0010	1	2	1	1	1	2

PROJECT NO: 4986-00-57 HWY: LOCAL STREET COUNTY: FOND DU LAC MISCELLANEOUS QUANTITIES SHEET: **E**

3

<u>RESTORATION ITEMS</u>

			625.0100	627.0200	628.2008 EROSION MAT	629.0210	630.0140	630.0500				628.1504	628.1520 SILT FENCE	628.6005 TURBIDITY
CATEGORY	STATION TO STATION	LOCATION	TOPSOIL SY	MULCHING	URBAN CLASS I TYPE B SY	FERTILIZER TYPE B CWT	SEEDING MIXTURE NO. 40 LB	SEED WATER MGAL	CATEGORY	STATION TO STATION	LOCATION	SILT FENCE LF	MAINTENANCE LF	BARRIERS SY
CATEGORY	STATION TO STATION	LOCATION	31	31	31	CVVI	LD	IVIGAL		7.50				
									0010	7+50 - 9+54	LT	221	221	
0010	7+66 - 9+54	LT	222		222	0.1	4	5	0010	7+80 - 8+50	RT	62	62	
0010	7+90 - 9+52	RT	190		190	0.1	4	5	0010	8+40 - 9+51	RT			135
0010	10+46 - 12+15	LT	200		200	0.1	4	5	0010	10+51 - 12+13	RT			195
0010	10+48 - 12+15	RT	140		140	0.1	3	4	0010	10+45 - 12+28	LT	183	183	
0010	UNDISTRIBUTED		188	200	188	0.1	4	5	0010	12+04 - 12+22	RT	20	20	
									0010	UNDISTRIBUTED		122	122	83
		TOTAL 0010	940	200	940	0.5	19	24						
											TOTAL 0010	608	608	413

INLET PROTECTION

								628.7005 INLET	628.7015 INLET					SIGNING ITEMS		
	MOBILIZATIONS E	ROSION CONTROL						PROTECTION	PROTECTION					634.0812	638.3000	
								TYPE A	TYPEC					POSTS TUBULAR	REMOVING	
		620 1005	620 1010	CATI	EGORY	STATION	LOCATION	EACH	EACH	<u> </u>				STEEL 2X2-INCH	SMALL SIGN	
		628.1905	628.1910											X 12-FT	SUPPORTS	
		MAGRILIZATIONS	MOBILIZATIONS	00	010	7+68	LT	1			CATEGORY	STATION	LOCATION	EACH	EACH	REMARKS
		MOBILIZATIONS	EMERGENCY	00	010	8+08	LT	1	1							
		EROSION	EROSION	00	010	8+10	LT	1	1		0010	8+04	LT		1	RESTROOMS / EXIT ONLY
		CONTROL	CONTROL		010	8+12	RT	1	1	_	0010	8+43	RT	1	1	NO PARKING
CATEGORY	LOCATION	EACH	EACH		010	12+66	LT		1		0010	11+37	LT	1	1	NO PARKING
		_		00	010	12+66	RT		1		0010	11+90	RT	1	1	NO PARKING
0010	PROJECT 4986-00-57	7	4	00	010	12+90	LT	1								
				<u> </u>						_			TOTAL 0010	3	4	
	TOTAL 0010	7	4				TOTAL 0010	5	5	_						

TRAFFIC CONTROL ITEMS

				643.0300	TRAFFIC CONTROL	643.0420	TRAFFIC CONTROL	643.0705 TRAFFIC CONTROL		643.0900		643.1050	644.1810 TEMPORARY
			TRAFFIC CONTROL	TRAFFIC CONTROL	BARRICADES TYPE	TRAFFIC CONTROL	WARNING LIGHTS	WARNING LIGHTS	TRAFFIC CONTROL	TRAFFIC CONTROL	TRAFFIC CONTROL	TRAFFIC CONTROL	PEDESTRIAN
			DRUMS	DRUMS	III	BARRICADES TYPE III	TYPEA	TYPE A	SIGNS	SIGNS	SIGNS PCMS	SIGNS PCMS	BARRICADE
CATEGORY	LOCATION	DAYS	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY	LF
0010	PROMEN DRIVE / FRAZIER DR	7									1	7	
0010	PROMEN DRIVE / LIGHTHOUSE DR	7									1	7	
0010	PROJECT BEGIN	150			7	1,050	10	1,500	4	600			
0010	PROJECT END	150			7	1,050	10	1,500	4	600			
0010	PROJECT BEGIN, SIDEWALK CLOSURE	150						_	1	150	_		18
0010	PROJECT END, SIDEWALK CLOSURE	150							1	150			18
0010	STA 8+00 LT, DRIVEWAY	150	10	1,500									
		TOTAL 0010		1,500		2,100		3,000		1,500		14	36

PROJECT NO: 4986-00-57 HWY: LOCAL STREET COUNTY: FOND DU LAC MISCELLANEOUS QUANTITIES SHEET: **E**

		CONSTRUCTION STAKING ITEMS

					646 4000							650.4500	650.6501.01 CONSTRUCTION	650.7000 CONSTRUCTION	650.9500.01	650.9911.01	650.9920
					646.1020 MARKING LINE EPOXY 4-INCH							CONSTRUCTION STAKING SUBGRADE	STAKING STRUCTURE LAYOUT (STRUCTURE) (01. B-20-0258)	STAKING CONCRETE PAVEMENT	CONSTRUCTION STAKING SIDEWALK (PROJECT) (01. 4986-00-57)	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (01. 4986-00-57)	CONSTRUCTION STAKING SLOPE STAKES
CATEGORY	STATION TO	O STATI	ON	LOCATION	LF	REMARKS	CATEGORY	STATION	TO	STATION	LOCATION	LF	(O1. B-20-0238) EACH	LF	4986-00-37) EACH	EACH	LF
0010	7+90 -	12+1	.5	CENTERLINE	850	DOUBLE YELLOW	0010	7+66	-	9+75	PROMEN DR	209		209			209
				TOTAL 0010	850		0010 0010	10+25 7+66	-	12+15 12+15	PROMEN DR 4986-00-57	190 	1	190 	1	1	190
											TOTAL 0010	399	1	399	1	1	399

LIGHTING ITEMS

					*					
					652.0225	653.0164	655.0610	655.0620	655.0625	SPV.0060.02
					CONDUIT RIGID	PULL BOXES				
					NONMETALLIC	NON-	ELECTRICAL	ELECTRICAL	ELECTRICAL	SPECIAL (02.
					SCHEDULE 40 2-	CONDUCTIVE	WIRE LIGHTING	WIRE LIGHTING	WIRE LIGHTING	ORNAMENTAL
					INCH	24X42-INCH	12 AWG	8 AWG	6 AWG	STREET LIGHT)
CATEGORY	STATION	TO	STATION	LOCATION	LF	EACH	LF	LF	LF	EACH
0010	7+66	-	9+51	LT	177	1		216	588	
0010	9+46	-	9+51	RT	5					
0010	10+49	-	10+54	RT	5					
0010	10+49	-	12+15	LT	165	1		188	492	
				TOTAL 0010	352	2	0	404	1,080	0
0030	9+32	-		LT			60			1
0030	10+72	-		LT			60			1
				TOTAL 0030	0	0	120	0	0	2
				PROJECT TOTAL	352	2	120	404	1,080	2

SPV.0060.01

SAWING ITEMS

PAVEMENT MARKINGS

SALVAGE AND STOCKPILE STREET LIGHTS

<u>EMOVE AND</u>	SALVAGES	<u>IONETTEM:</u>	

SPV.0060.03

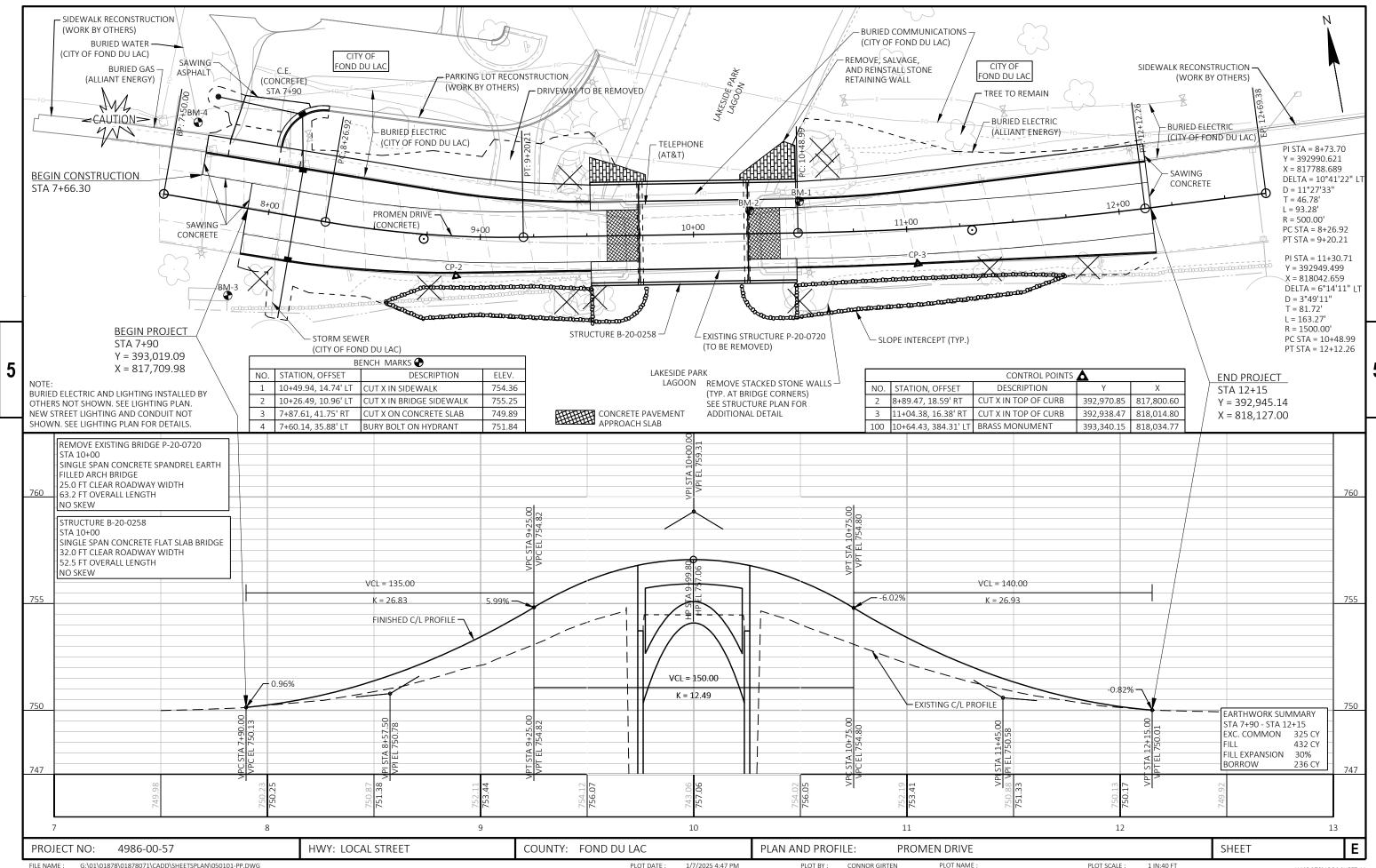
					690.0150	690.0250
					SAWING	SAWING
					ASPHALT	CONCRETE
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF
0010	7+66	-	7+90	PROMEN DR		68
0010	7+66	-		LT, SIDEWALK		6
0010	7+82	-	7+98	LT, DWY	16	
0010	9+09	-	9+29	LT, DWY	17	5
0010	12+15	-		LT, SIDEWALK		6
0010	12+15	-		PROMEN DR		44
				TOTAL 0010	33	129

			SPECIAL (01. SALVAGE AND STOCKPILE STREET LIGHTS)
CATEGORY	STATION	LOCATION	EACH
0010	9+46	LT	1
0010	10+54	RT	1
0010	12+08	LT	1
		TOTAL 0010	3

				SPECIAL (03. REMOVE, SALVAGE, AND REINSTALL STONE RETAINING WALL)
STATION	TO	STATION	LOCATION	EACH
10+47	=	10+70	LT	1
			TOTAL 0010	1
				10+47 - 10+70 LT

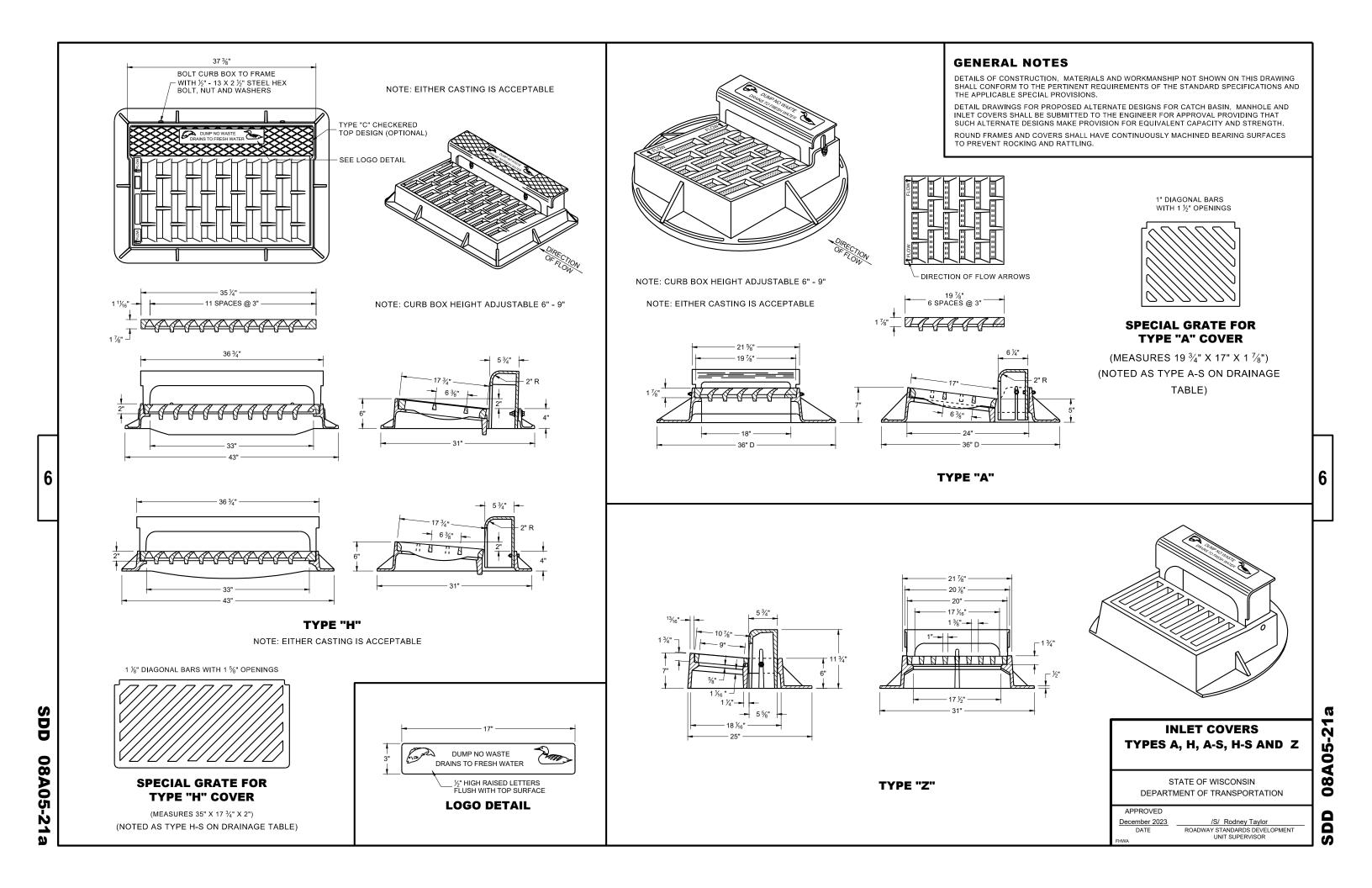
HWY: LOCAL STREET COUNTY: FOND DU LAC SHEET: Ε PROJECT NO: 4986-00-57 MISCELLANEOUS QUANTITIES

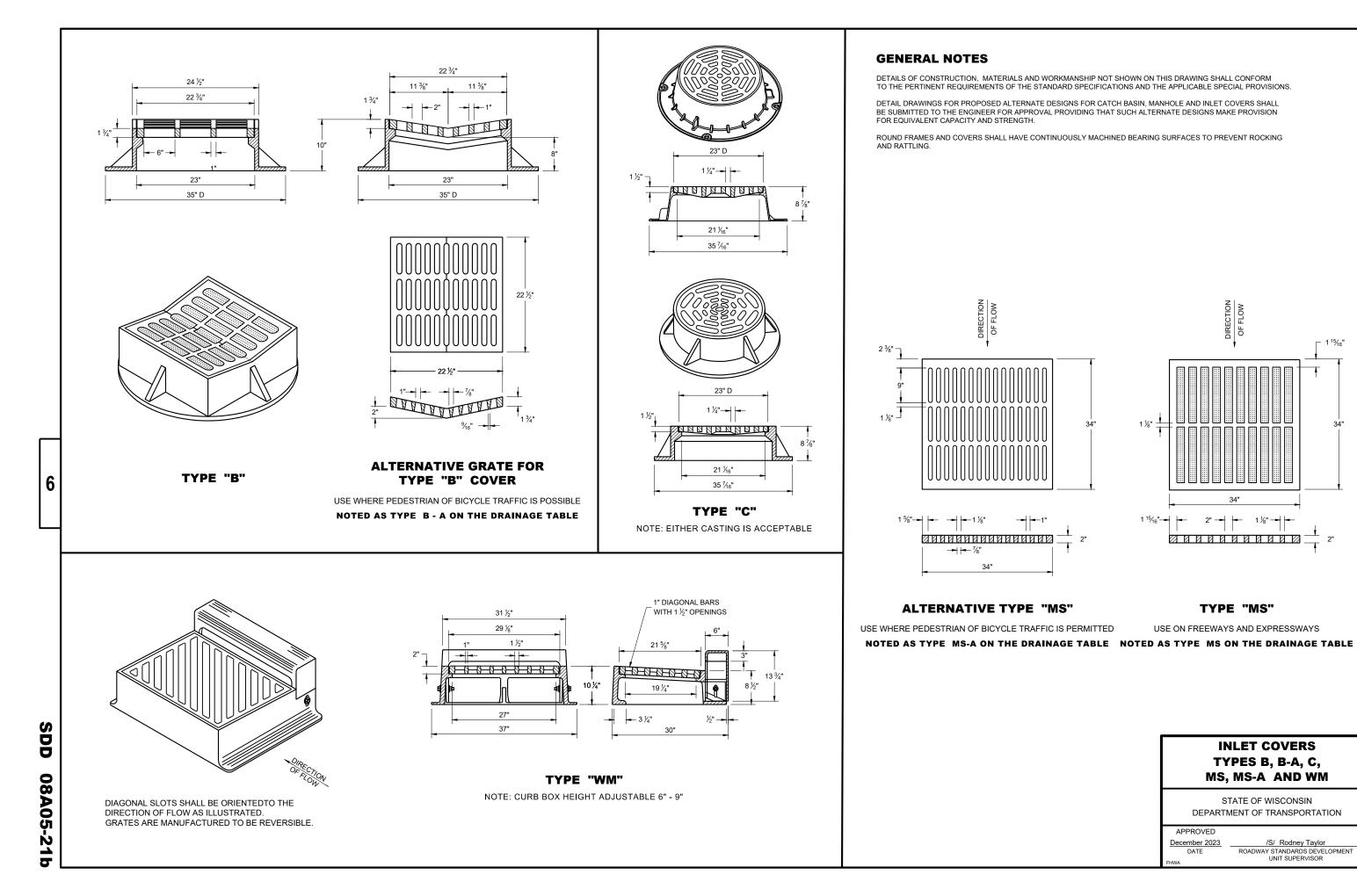
^{*}ADDITIONAL QUANTITIES LISTED IN STRUCTURE PLANS



Standard Detail Drawing List

08A05-21A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-21B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08C06-03	INLETS 3-FT AND 4-FT DIAMETER
08c07-03	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT, 2.5X3-FT & 2X3.5-FT
08D01-23A	CONCRETE CURB & GUTTER
08D01-23B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D18-04	DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E11-02	TURBIDITY BARRIER
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09в02-10	CONDUIT
09в16-02	PULL BOX NON-CONDUCTIVE
12A03-10	NAME PLATE (STRUCTURES)
13A03-07	CONCRETE PAVEMENT SHOULDERS
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C18-08A	CONCRETE PAVEMENT JOINTING
13C18-08B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-08C	CONCRETE PAVEMENT JOINT TYPES
13C18-08D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
13C18-08F	CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER
15A04-08D	CHANNELIZING DEVICES, PERMANENT FLEXIBLE TUBULAR MARKER POST
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15D30-09A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09B	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09D	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09E	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09F	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09G	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09H	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09I	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09J	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09K	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09L	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

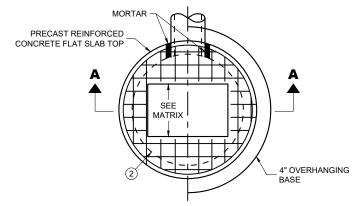




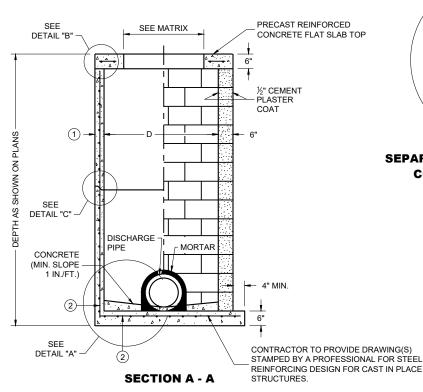
08A05-2

S

PLAN VIEW CIRCULAR OPENING



PLAN VIEW RECTANGULAR OPENING



CIRCULAR INLETS WITH FLAT TOP

PRECAST REINFORCED **CONCRETE WITH MONOLITHIC BASE**

08C06-03

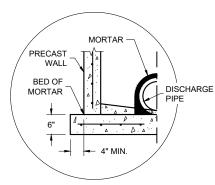
CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CATCH BASIN COVER OPENING MATRIX

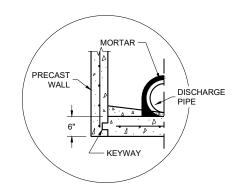
INLET	INLET COVER TYPE	ALL A'S	ALL B'S	BW	С	F	ALL H'S	S	Т	٧	WM	Z
SIZE	OPENING SIZE (FT.)											
0.57	2 DIA.				Х							Х
3-FT	2 X 2	Х	Х					Х		Х		
	2 DIA.				Х							Х
	2 X 2	Х	Х					Х		Х		
4-FT	2 X 2.5			Х				Х	Х	Х	Х	
	2 X 3						х					
	2.5 X 3					Х						

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES							
OIZL	180° SEPARATION (IN)	90° SEPARATION (IN)						
3-FT	15	12						
4-FT	24	18						

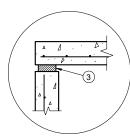


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

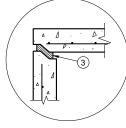


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

DETAIL "A"



TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT

DETAIL "C"

RISER WITH TONGUE

AND GROOVE JOINT

DETAIL "B"

INLETS 3-FT AND 4-FT DIAMETER

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH. WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

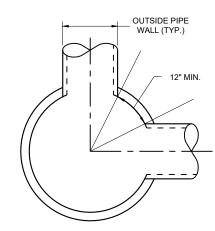
ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "D".

- (1) MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT DIAMETER AND 5 INCHES FOR 4-FT DIAMTER PRECAST INLETS.
- (2) FOR PRECAST INLETS AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO
- (3) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 OR RUBBER GASKETS CONFORMING TO ASTM C443.



MINIMUM HORIZONTAL PIPE **SEPARATION DETAIL "D"**

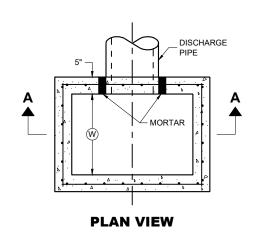
INLETS 3-FT AND 4-FT DIAMETER

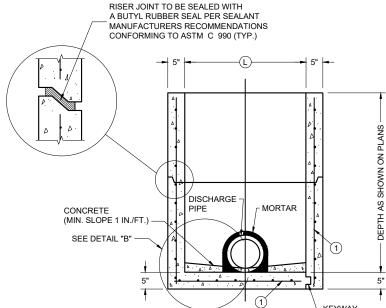
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

December 2023

ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

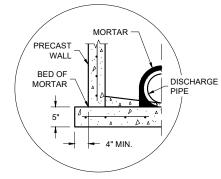
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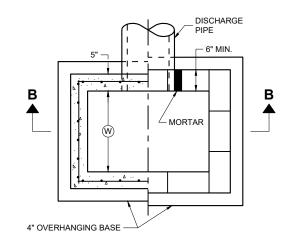
PRECAST REINFORCED PRECAST REINFORCED **CONCRETE WITH CONCRETE WITH INTEGRAL BASE MONOLITHIC BASE**

SECTION A - A

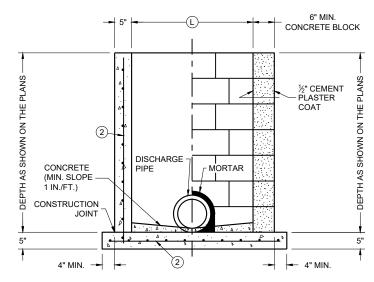


SEPARATE PRECAST REINFORCED **CONCRETE BASE OPTION**

DETAIL "B"



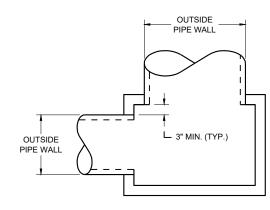
PLAN VIEW



CAST IN PLACE REINFORCED CONCRETE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)

SECTION B - B



DETAIL "A"

INLETS 2 X 2-FT, 2 X 2.5-FT, 2 X 3-FT, 2.5 X 3-FT AND 2X3.5-FT

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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER. THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

- $\stackrel{\textstyle \frown}{}$ FOR PRECAST INLETS AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO
- ASTM C 913

 (2) CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

CATCH BASIN COVER MATRIX

ſ	INLET WIDTH W (FT.)	WIDTH	LENGTH	INLET COVER TYPE									
		L (FT.)	ALL A'S	ALL B'S	BW	F	ALL H'S	s	Т	٧	WM	V V-B	
	2 X 2-FT	2	2	Х	Х				х				
	2 X 2.5-FT	2	2.5			х			х	х	х	Х	
	2 X 3-FT	2	3					Х					
	2.5 X 3-FT	2.5	3				Х						
	2 X 3.5-FT	2	3.5										Х

PIPE MATRIX

	=,					
	CATCH BASIN	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES				
	SIZE	WIDTH (IN)	LENGTH (IN)			
	2 X 2-FT	12	12			
	2 X 2.5-FT	12	18			
	2 X 3-FT	12	24			
	2.5 X 3-FT	18	24			
	2 X 3.5-FT	12	30			

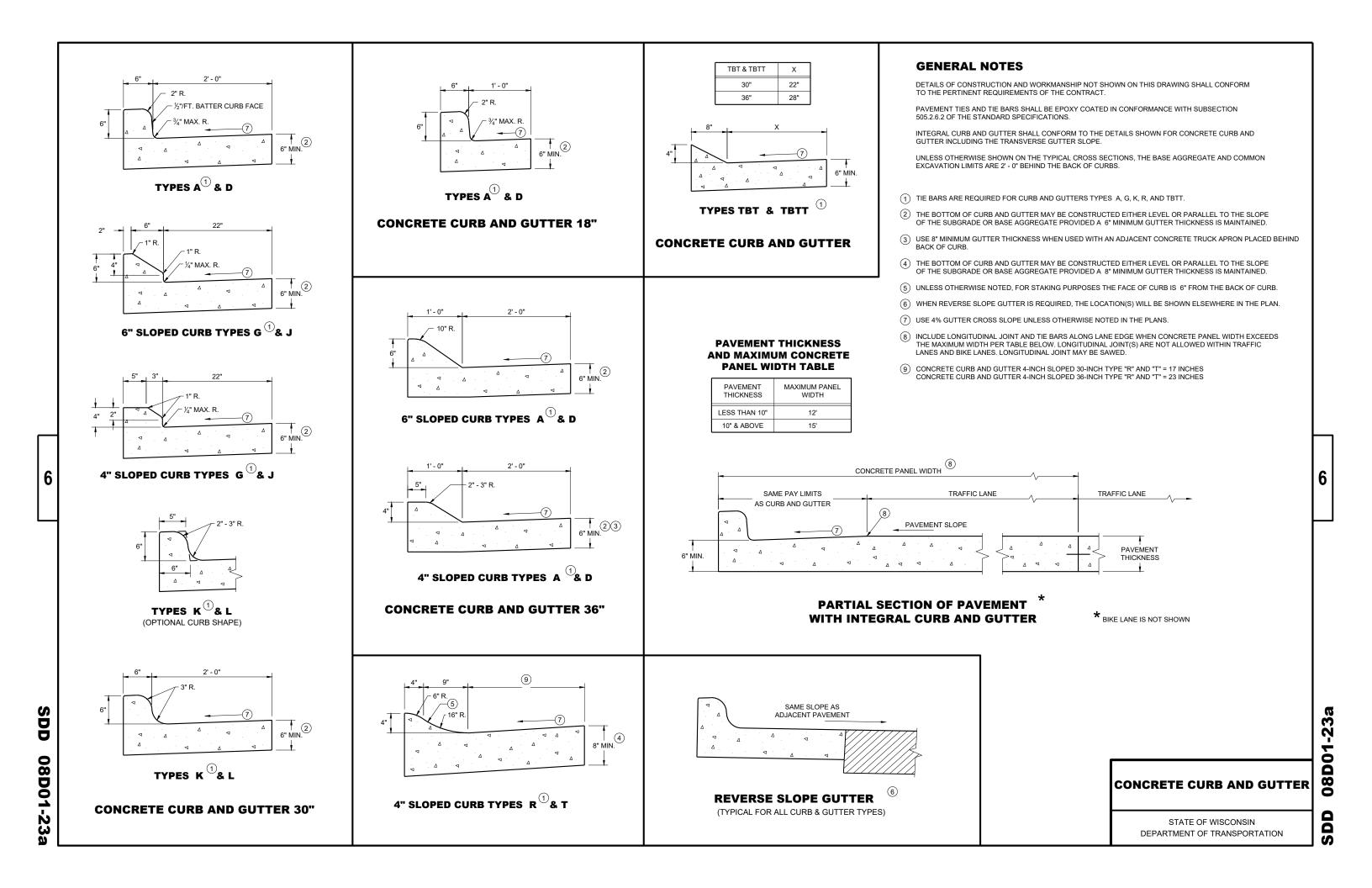
INLETS 2 X 2-FT, 2 X 2.5-FT, 2 X 3-FT, 2.5 X 3-FT **AND 2 X 3.5-FT**

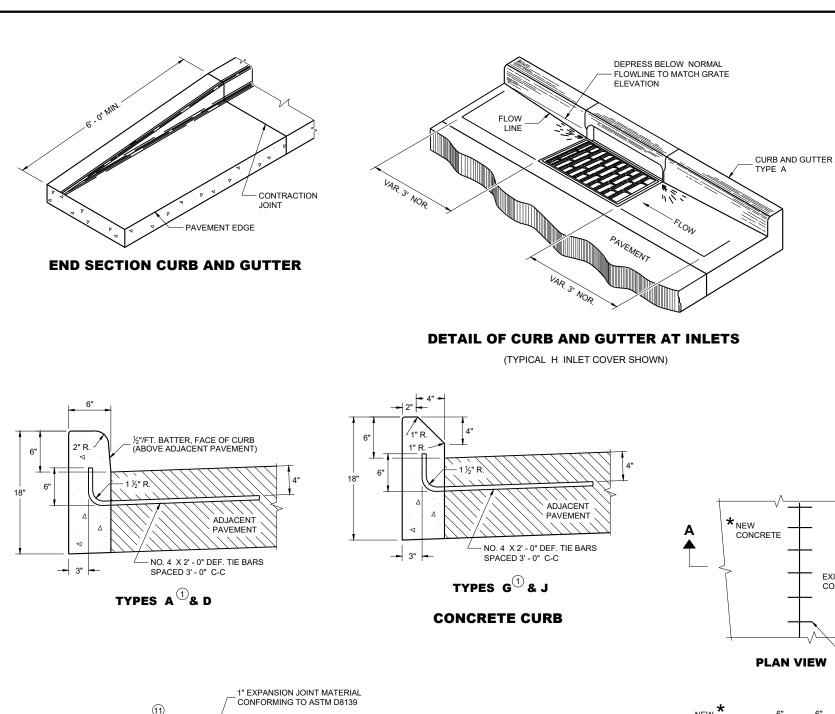
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

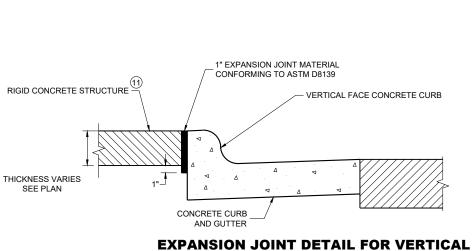
December 2023 ROADWAY STANDARDS DEVELOPMENT

UNIT SUPERVISOR

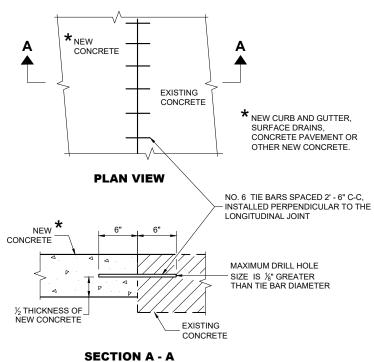
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CURB ABUTTING A RIGID STRUCTURE 11



TIE BARS DRILLED
INTO EXISTING PAVEMENT

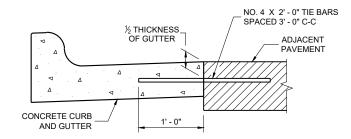
GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

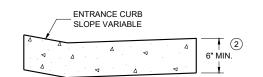
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'- 0" BEHIND THE BACK OF CURBS.

- 1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
- (2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- 10 REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.
- (1) PLACE 1" THICK EXPANSION JOINT MATERIAL BETWEEN VERTICAL FACE CURB TYPES EXTENDING FROM THE TOP OF CURB TO 1 INCH BELOW THE ADJOINING CONCRETE SURFACE. RIGID CONCRETE STRUCTURES INCLUDE RAISED CONCRETE MEDIANS, CONCRETE SAFETY ISLANDS, SPLITTER ISLANDS, OR LOCATIONS IDENTIFIED ON THE PLANS.



TYPICAL TIE BAR LOCATION



DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

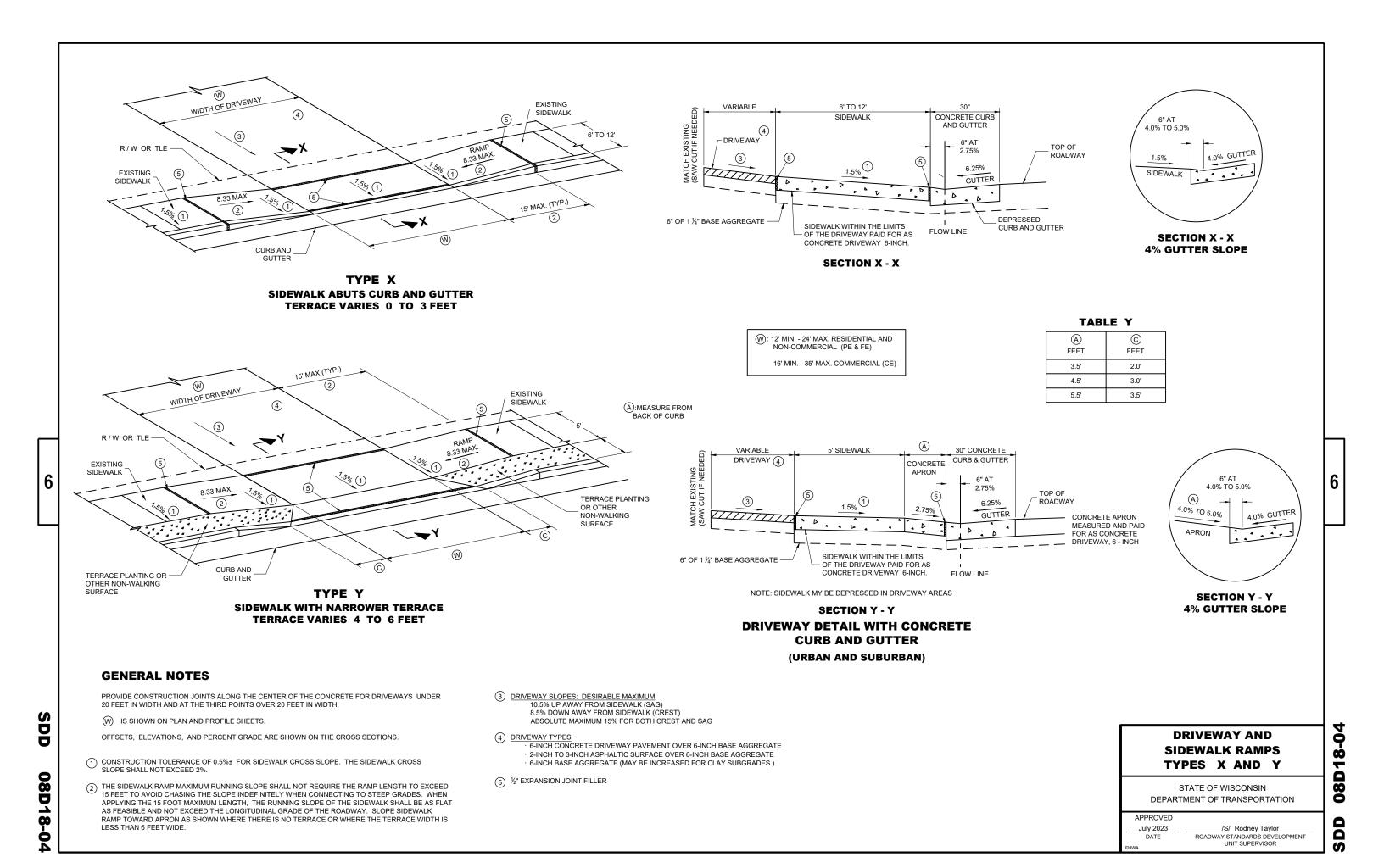
 May 2023
 /S/ Rodnery Taylor

 DATE
 ROADWAY STANDARDS DEVELOPMENT

 UNIT SUPERVISOR

SDD 08D01-23b

O8D01-23



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

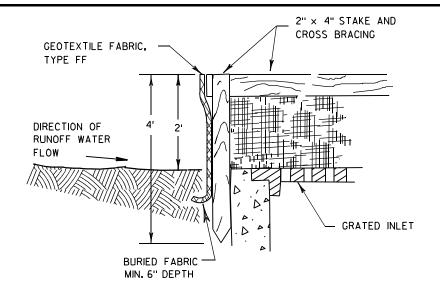
(WHEN REQUIRED BY THE ENGINEER)

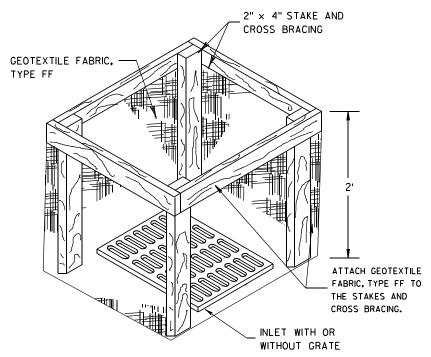


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INLET PROTECTION, TYPE A

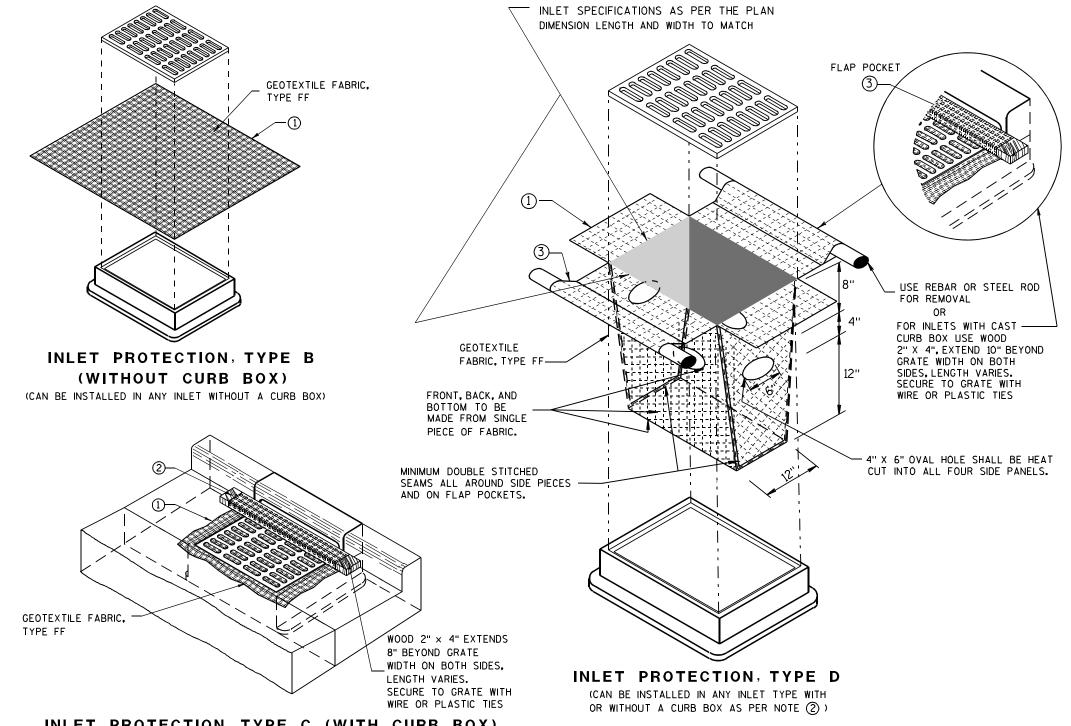
GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- 1) FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- (2) FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- (3) FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE, THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION TYPE A, B, C, AND D

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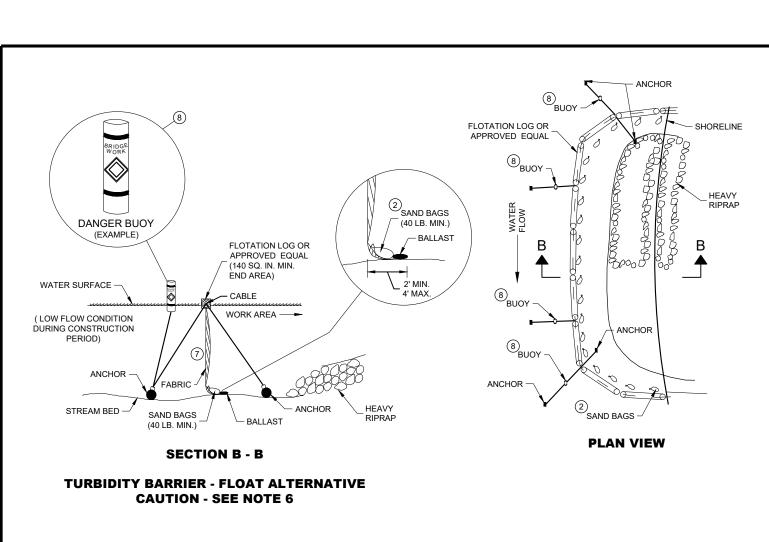
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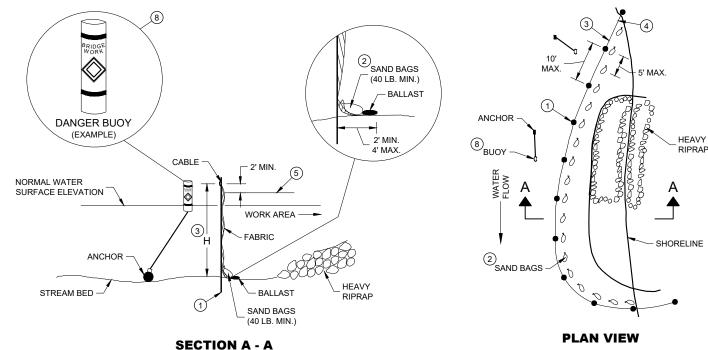
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

10/16/02





TURBIDITY BARRIER - STANDARD POST INSTALLATION

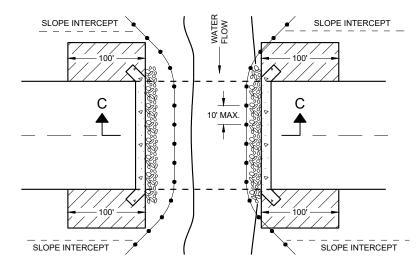
TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

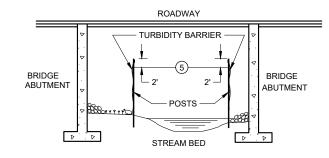
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

- 1 DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.
- (2) SAND BAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- (3) WHEN BARRIER HEIGHT "H" EXCEEDS 8 FEET, POST SPACING MAY NEED TO BE DECREASED.
- (4) IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE Q2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BEDROCK PREVENTS THE INSTALLATION OF POSTS.
- (7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- (8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



PLAN VIEW



SECTION C - C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER STATE OF WISCONSIN

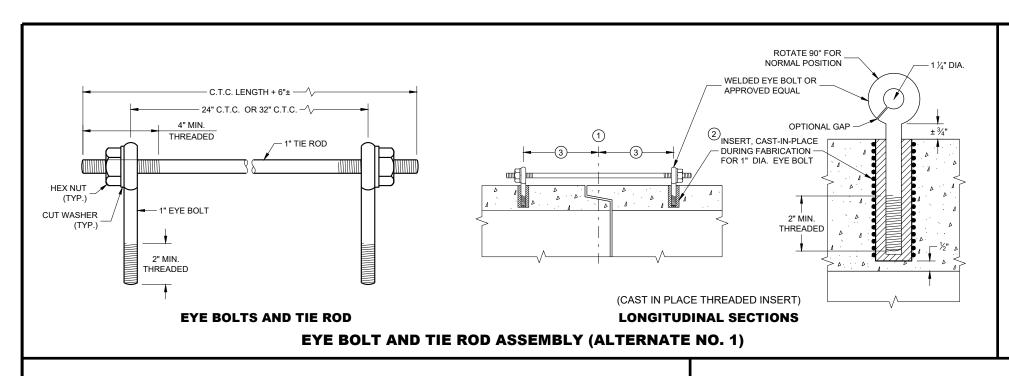
DEPARTMENT OF TRANSPORTATION

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6/4/02 /S/ Beth Cannestra

DATE CHIEF ROADWAY DEVELOPMENT
ENGINEER

APPROVED



GENERAL NOTES

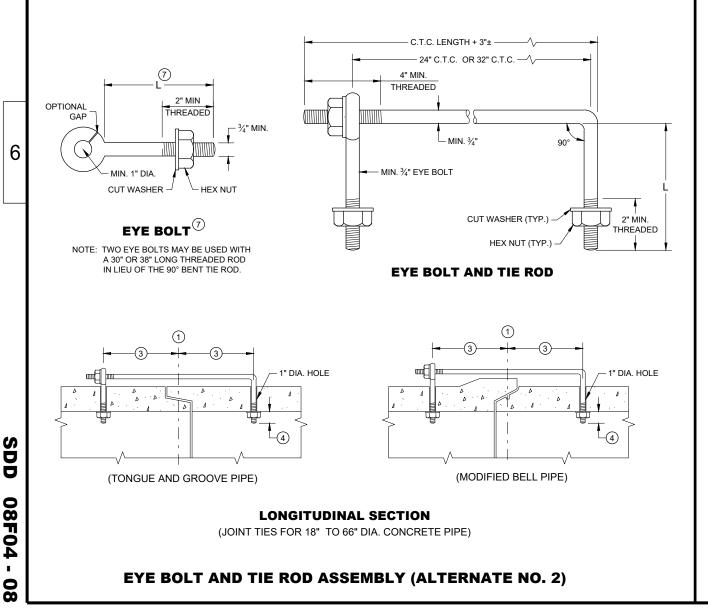
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

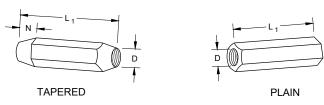
CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES, ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS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

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

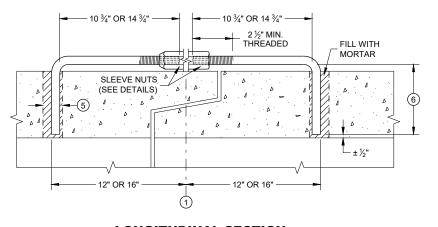
JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

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



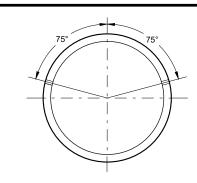


RIGHT AND LEFT THREADS
SLEEVE NUTS



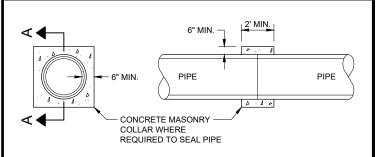
LONGITUDINAL SECTION

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

November 2021

DATE

/S/ Rodney Taylor

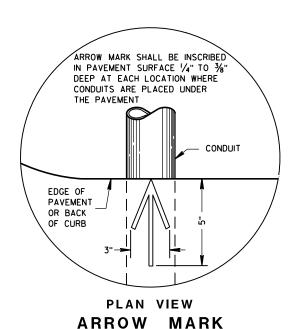
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

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ARROW MARK INSCRIBED IN PAVEMENT SURFACE OVER € OF CONDUIT (BOTH ENDS) — 2'-0"*—*∕ NORMAL PAVEMENT EDGE OF THICKNESS **PAVEMENT** PAVEMENT OR BACK OF CURB BASE COURSE BACKFILL SLOPE 1/8"/FT. EITHER DIRECTION *DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES - CONDUIT, PITCH TO DRAIN WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L.LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REIN-STALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED			
March, 2017	/S/ Ahmet Demirbilek		
DATE	STATE ELECTRICAL ENGINEER		

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL BOXES, FRAMES AND COVERS SHALL BE SUITABLE FOR TIER 15 LOADING AS SPECIFIED IN ANSI/SCTE 77.

PROVIDE AN OPENING FOR TOOL ASSISTED COVER REMOVAL NOT LARGE ENOUGH TO PERMIT PASSAGE OF A SPHERE MORE THAN %" DIAMETER

ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DICONTINUITIES LESS THAN $\frac{1}{4}$ ".

COVER SHALL BE MAGNETICALLY LOCATABLE.

BOXES AND EXTENSIONS ARE TRIMMABLE FOR CUSTOM LENGTHS. TRIMMED PIECES SHALL MAINTAIN A UNIFORM LENGTH.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN ½".

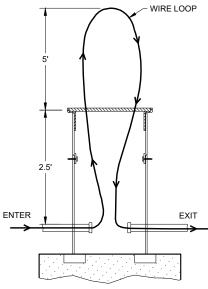
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS AND MAGNETIC LOCATABLE DEVICE.

WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE.

LABEL ON COVER SHALL READ "ELECTRIC" FOR SIGNAL AND LIGHTING SYSTEMS, "WISDOT ITS" FOR COMMUNICATIONS AND ITS EQUIPMENT SYSTEMS.



MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

PULL BOXES NON-CONDUCTIVE

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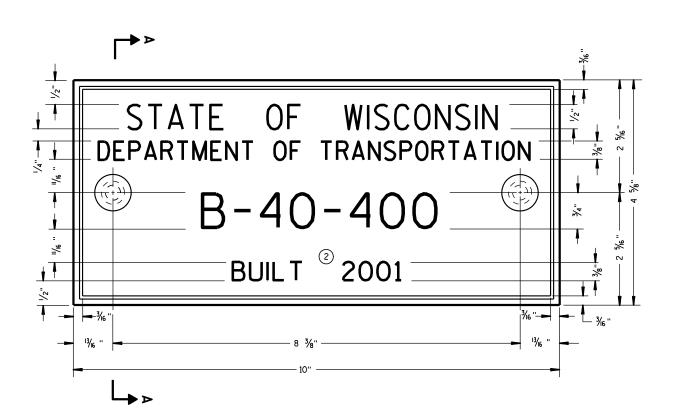
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

 May 2022
 /S/ Ahmet Demirbilek

 DATE
 STATE ELECTRICAL ENGINEER

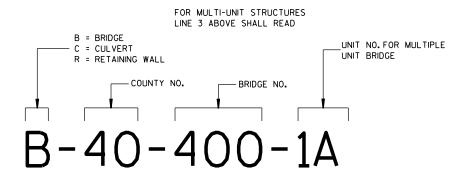
SDD 09B16-02





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



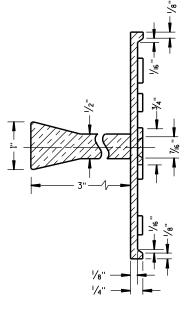
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

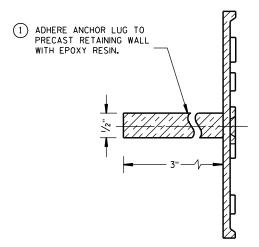
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SPREAD OPEN SO THE TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/IO /S/ Scot Becker

DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

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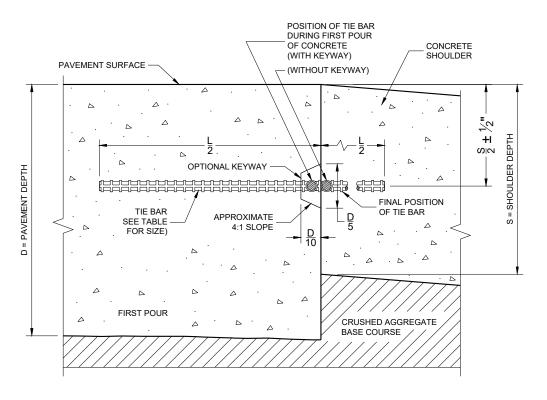
GENERAL NOTES

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

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE

TIE BARS SHALL CONFORM TO SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.



SECTION A - A LONGITUDINAL CONSTRUCTION JOINT

- JOINT SPACING (SEE TABLE) -1' - 0" DOWEL BARS 12" C -C DOWEL BARS 12" C -C (SEE DOWEL BAR TABLE) SHOULDER WIDTH TIE BAR (SEE TIE BAR TABLE TIE BAR SPACING FOR SIZE) (SEE TABLE) LONGITUDINAL JOINT → 15" MIN. →

PLAN VIEW CONCRETE PAVEMENT SHOULDER

TIE BAR TABLE

	PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING	
	<10 ½"	NO. 4	30"	36"	
	>10 ½"	NO. 5	36"	36"	
		NO. 4*	30"	_{24"} * *	

* SUBSTITUTE BENT BATS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES.

CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER ***	CONTRACTION JOINT SPACING		
6", 6 ½"	NONE	12"		
7", 7 ½"	1"	14"		
8" & ABOVE	1 1/4"	15"		

FOR DOWELED CONCRETE SHOULDERS WITH TRAPEZOIDAL CROSS SECTIONS, CHOSE THE APPROPRIATE DOWEL BAR DIAMETER BASED ON THE SMALLER PAVEMENT DEPTH (LIKELY THE OUTSIDE EDGE OF THE SHOULDER). IF USING BASKETS, USE BASKETS FRO THE AVERAGE THICKNESS OF THE CROSS SECTION.

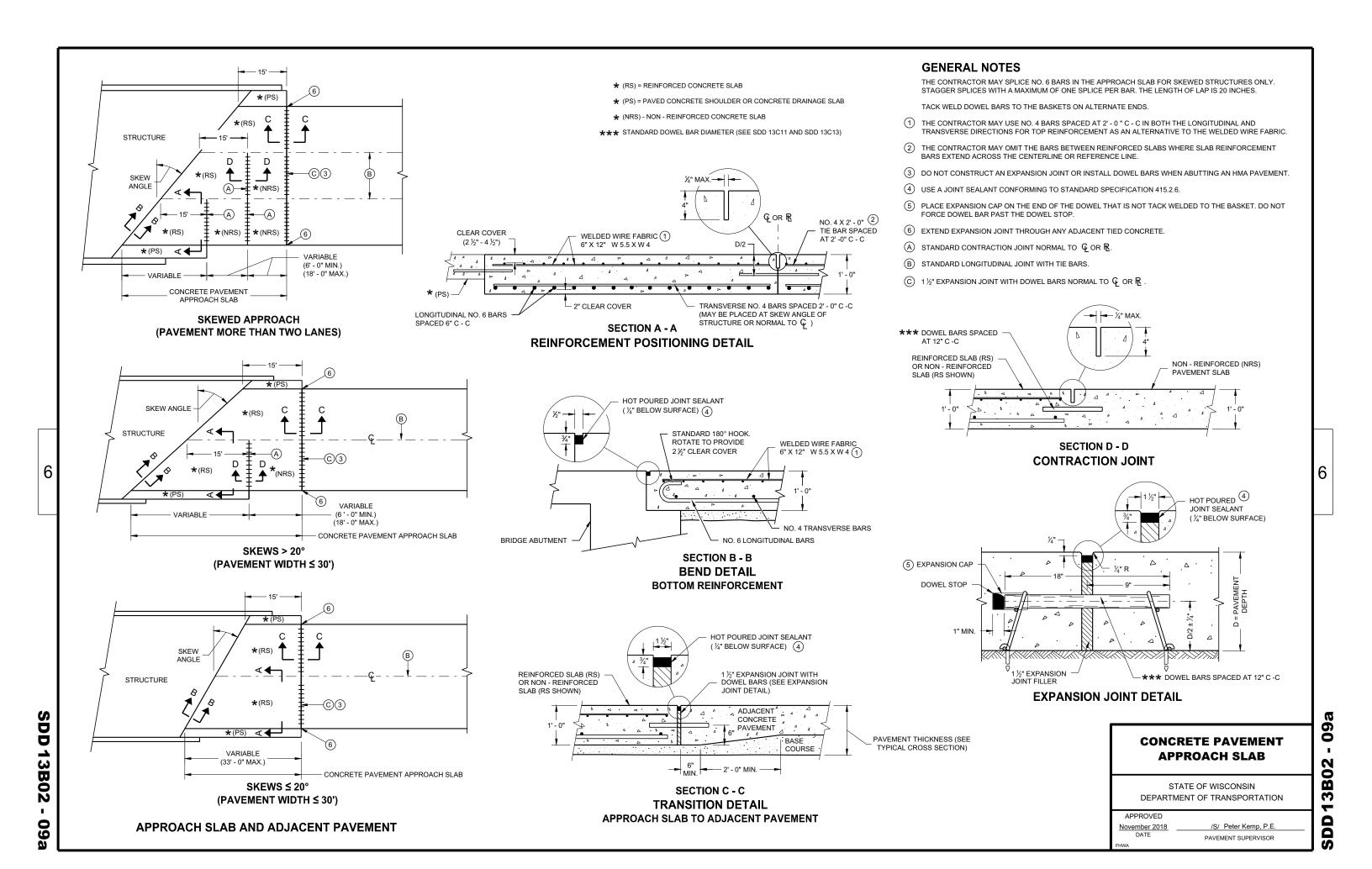
CONCRETE PAVEMENT SHOULDERS

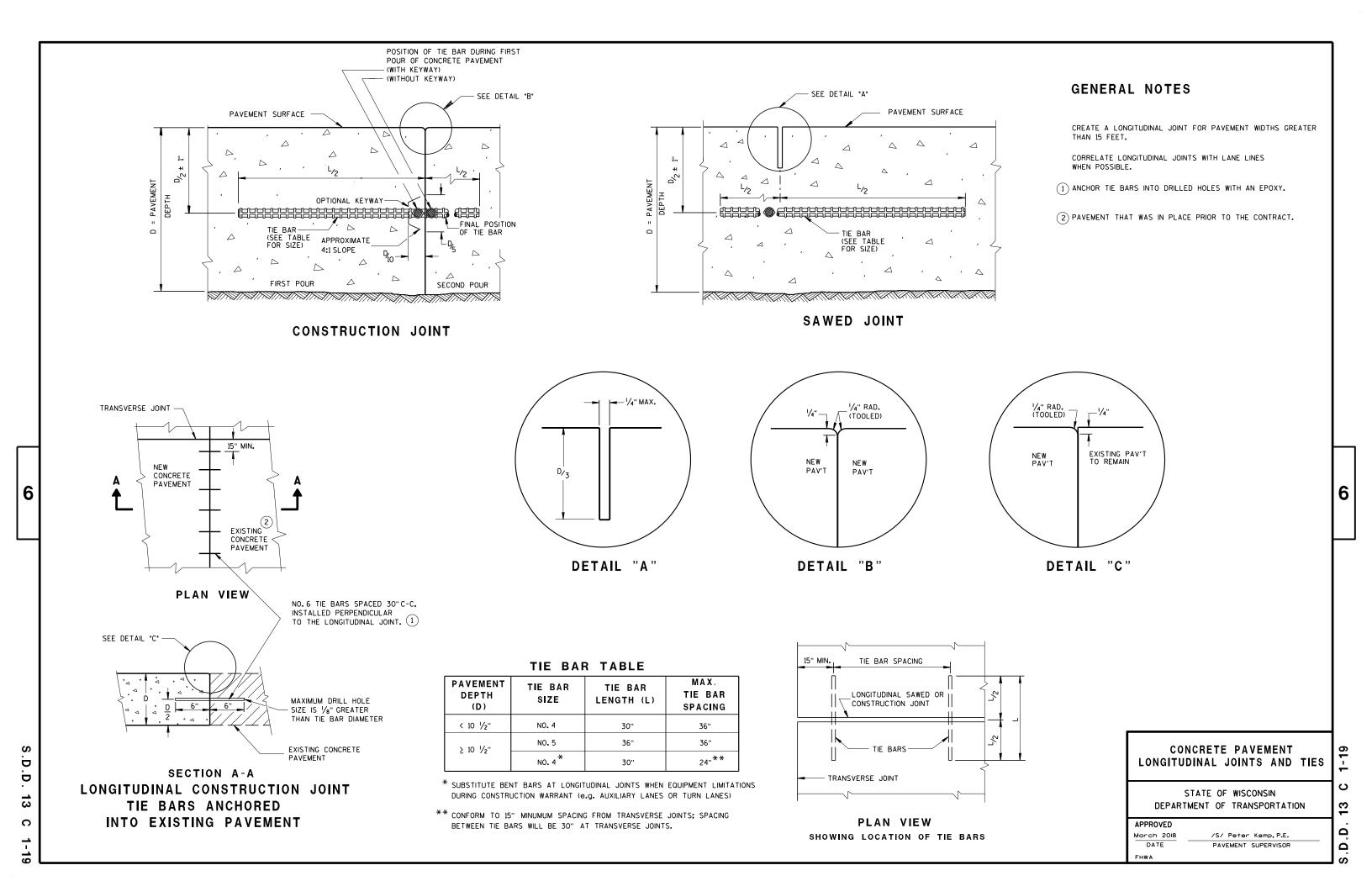
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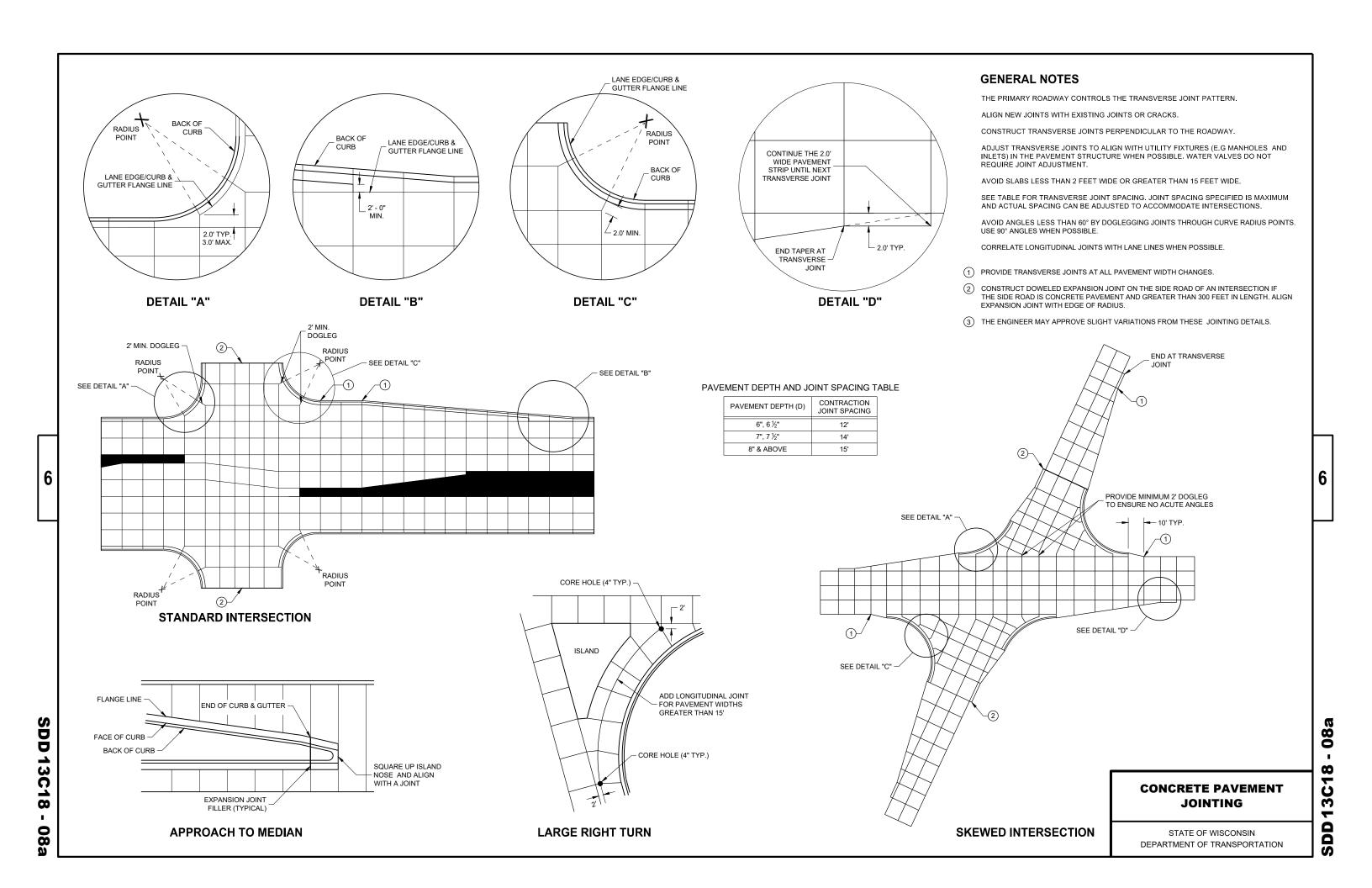
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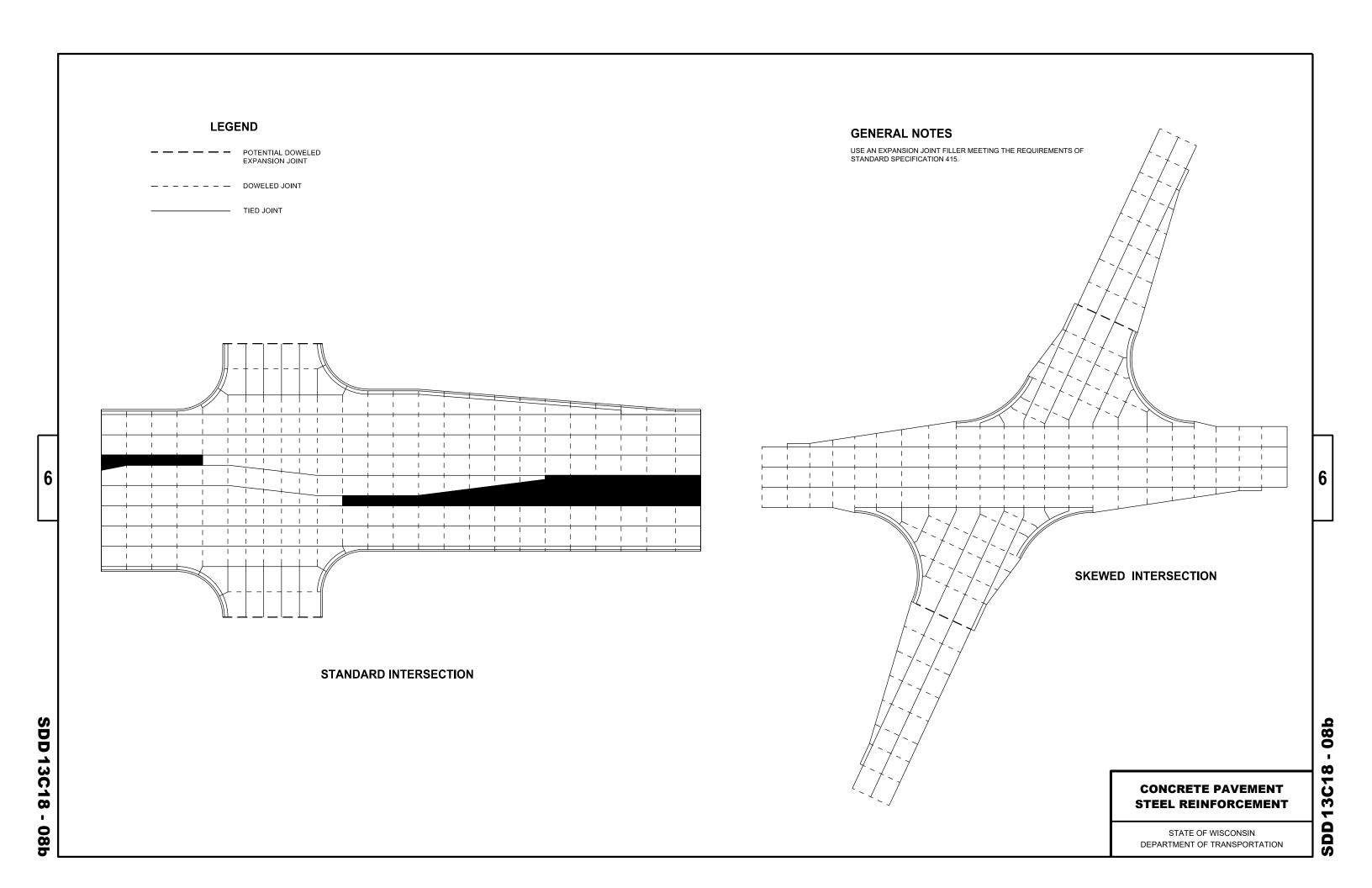
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

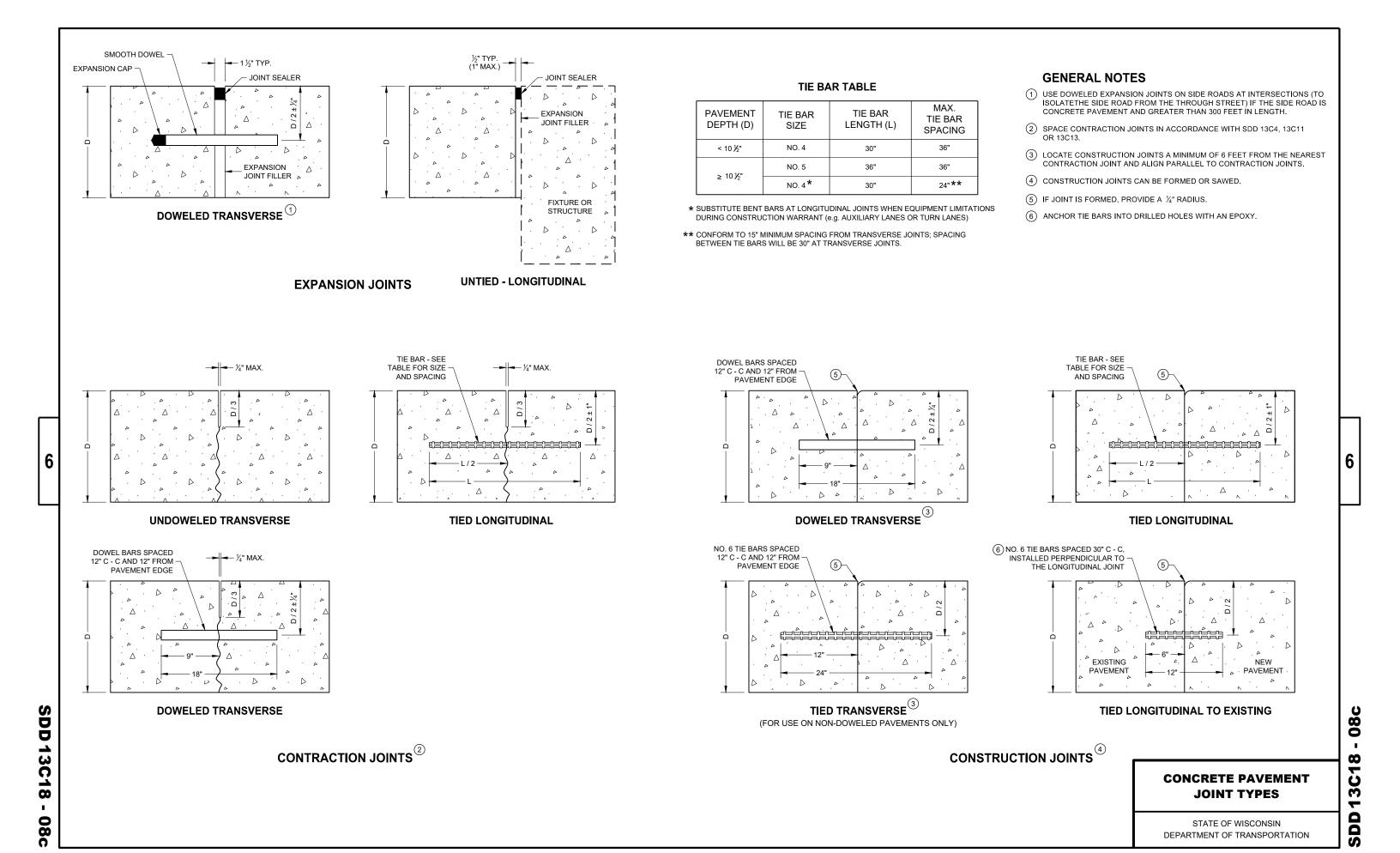
APPROVED November 2022 DATE /S/ Peter Kemp PAVEMENT SUPERVISOR





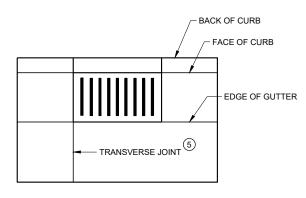






LONGITUDINAL JOINT



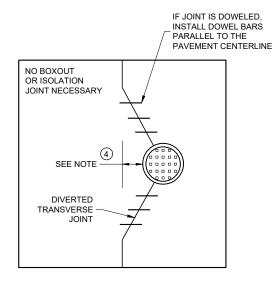


INLET WITH TRANSVERSE JOINT

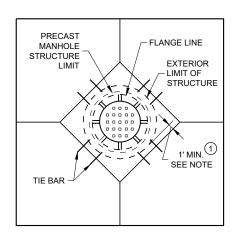
- (1) USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
- 2) ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
- $\ensuremath{\mathfrak{J}}$ IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
- (4) IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
- (5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

NO BOXOUT OR ISOLATION JOINT NECESSARY TIED DIVERTED LONGITUDINAL SEE NOTE (3) TIE BAR

MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE

/S/ Peter Kemp P.E. PAVEMENT SUPERVISOR

6

SDD 13C18

08d

80 ∞ 3

BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION

A04-08d Ŋ

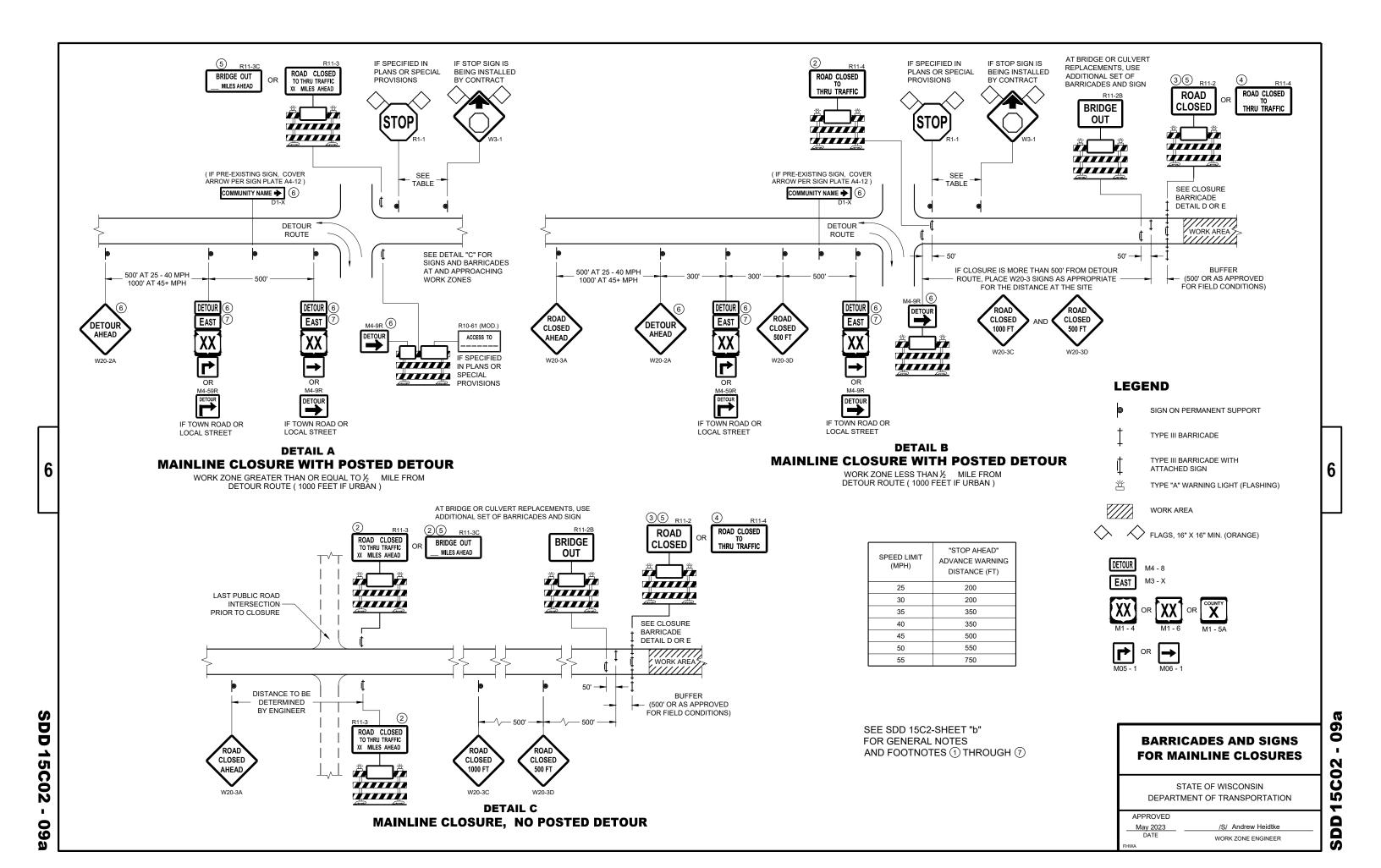
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

March 2024 DATE

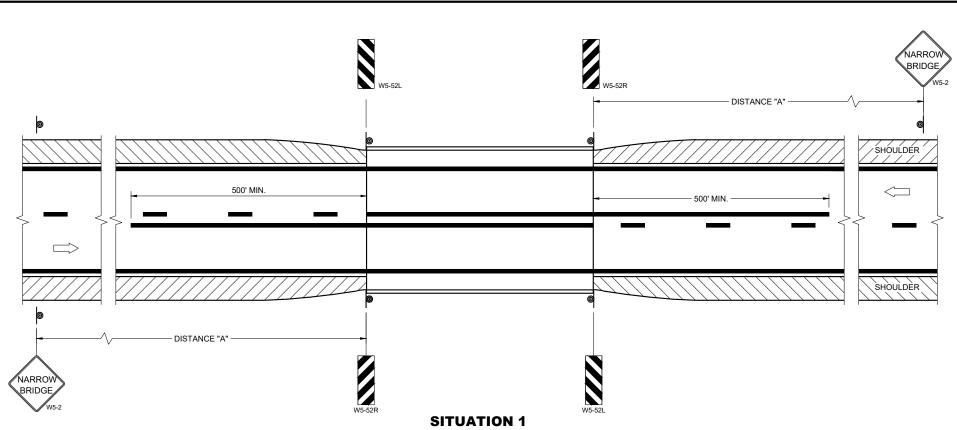
Statewide Pavement Marking Engineer

PERMANENT FLEXIBLE





SDD 15C06-12



WARRANTING CRITERIA: BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.

W5-52L W5-52L W5-52L W5-52L W5-52L

SITUATION 2

SDD

15C06-12

WARRANTING CRITERIA: 1. BRIDGE WIDTH IS AT LEAST 24 FEET <u>AND</u> 2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THE DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

1) OMIT ON ONE-WAY TRAVELED WAYS.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

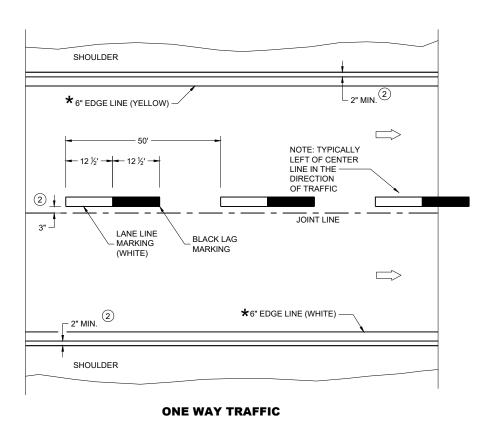
DISTANCE TABLE

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	700'

SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2023	/S/ Jeannie Silver
DATE	Statewide Pavement Marking Engineer



PERMANENT PAVEMENT MARKING

GENERAL NOTES

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

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

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

PERMANENT LONGITUDINAL **PAVEMENT MARKINGS**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

May 2023 DATE

/S/ Jeannie Silver Statewide Pavement Marking Engineer

6

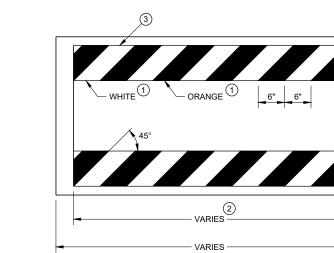
SDD

C08-23 Ŋ SD

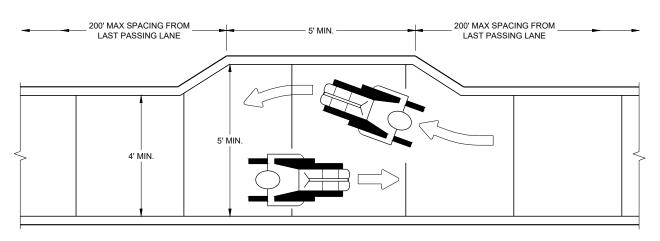
15C08-23a

BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

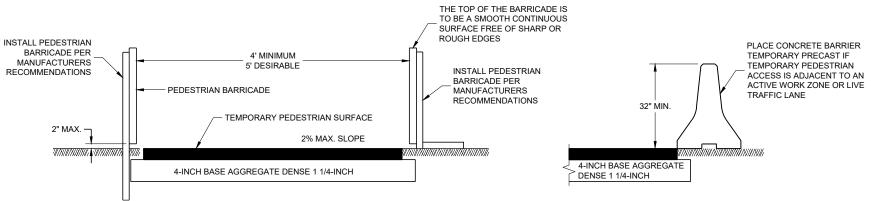
- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.
- 3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.
- * USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



TEMPORARY PEDESTRIAN BARRICADE*



NARROW SIDEWALK PASSING DETAIL



TEMPORARY PEDESTRIAN ACCESS

TRAFFIC CONTROL, **PEDESTRIAN ACCOMMODATION**

12" MAX.

3' MIN. 4' MAX.

6

60

15D30

SDD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

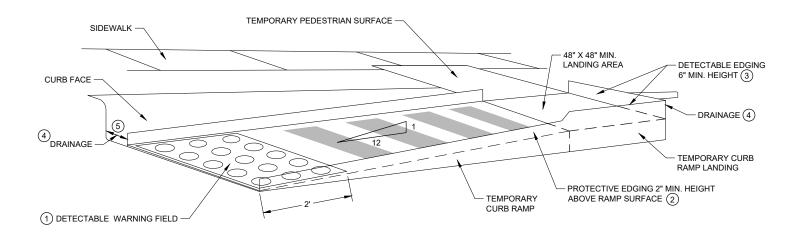
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CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

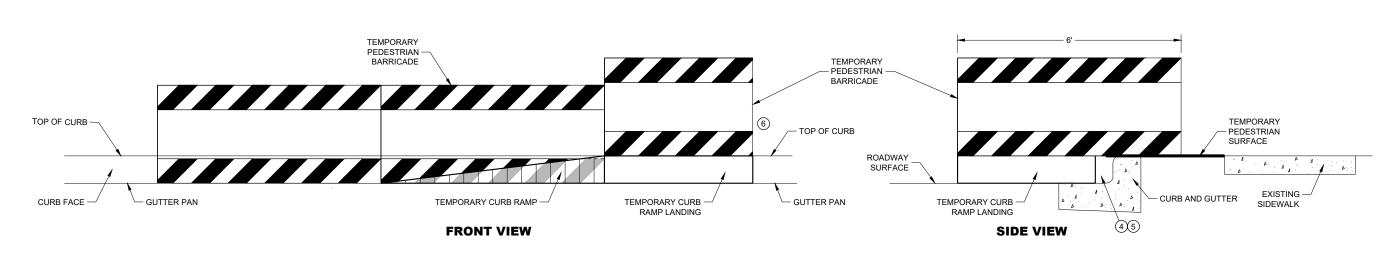
CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN $\frac{1}{2}$ " WIDTH.

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 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 ENSURE CURB RAMP IS OUT OF THE GUTTER PAN.
- (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

6

SDD 15D30

SDD 15D30 - 09

LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

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 1/4" AND 1/2".

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN

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

4 DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.

2 PROTECTIVE EDGING 2" MIN. HEIGHT ABOVE RAMP SURFACE 1 DETECTABLE WARNING FIELD WITH PROTECTIVE EDGE

1) DETECTABLE WARNING FIELD

WITH SIDE APRON $^{\scriptsize{\scriptsize{\scriptsize{\scriptsize{5}}}}}$

SIDEWALK

— TERRACE

PROTECTIVE EDGING (2)

2" MIN. HEIGHT

DRAINAGE

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

SDD 15D30 TEMPORARY CURB RAMP PERPENDICULAR TO CURB

TEMPORARY PEDESTRIAN SURFACE

TERRACE -

DRAINAGE

TEMPORARY PEDESTRIAN SURFACE -

FACE

DRAINAGE ___

CURB FACE

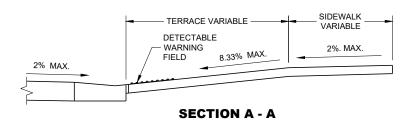
SIDEWALK

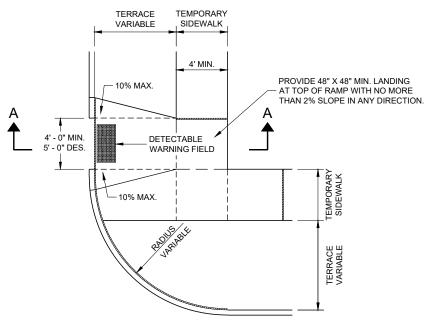
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GENERAL NOTES

- (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.
- \bigstar USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.





PLAN VIEW TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

5D30-09d

SDD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2023	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER

6

SDD

15D30-09d

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

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.

DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" 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 $\frac{1}{2}$ ".

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

- 1) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
- (2) 5' WIDE MIN. WITH TEMPORARY PEDESTRIAN BARRICADE, 10' WIDE MIN. WITHOUT TEMPORARY PEDESTRIAN BARRICADE.
- 3) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE INTO THIS SPACE.

LEGEND

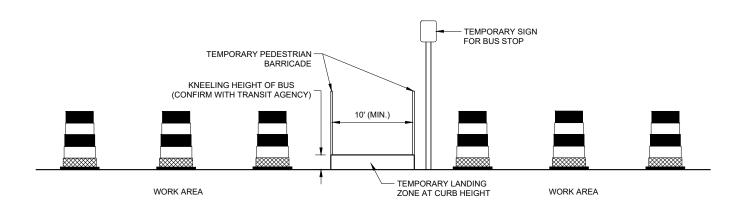
● TRAFFIC CONTROL DRUM

TYPE III BARRICADE

TEMPORARY PEDESTRIAN BARRICADE

TEMPORARY DETECTABLE WARNING FIELD

WORK AREA



PLAN VIEW

10' (MIN.)

3

WORK AREA

EXISTING CURB & GUTTER

=======

WORK AREA

=========

EXISTING SIDEWALK

TEMPORARY SIDEWALK CONNECTION TEMPORARY PEDESTRIAN SURFACE

2% MAX. CROSS SLOPE

TEMPORARY LANDING ZONE. EXISTING CONCRETE OR ASPHALT SURFACE OR TEMPORARY PEDESTRIAN SURFACE. 2% MAX. CROSS SLOPE

PROFILE VIEW
TEMPORARY BUS STOP PAD

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

60

5

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SIDEWALK DETOUR, SIDEWALK ONLY ON ONE SIDE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

PLACE TEMPORARY PEDESTRIAN BARRICADE TO FIT FIELD CONDITIONS, AVOIDING CONFLICTS WITH DRIVEWAYS AND OTHER EXISTING FEATURES.

- 1 IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
- (2) PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
- ③ IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
- 4 MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

SD

SDD

15D30

SIDEWALK DIVERSION SINGLE SIDE

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

- ① USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
- (2) IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
- 3 MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

09 2 SD

STATE OF WISCONSIN

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

SDD 15D30

DEPARTMENT OF TRANSPORTATION

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

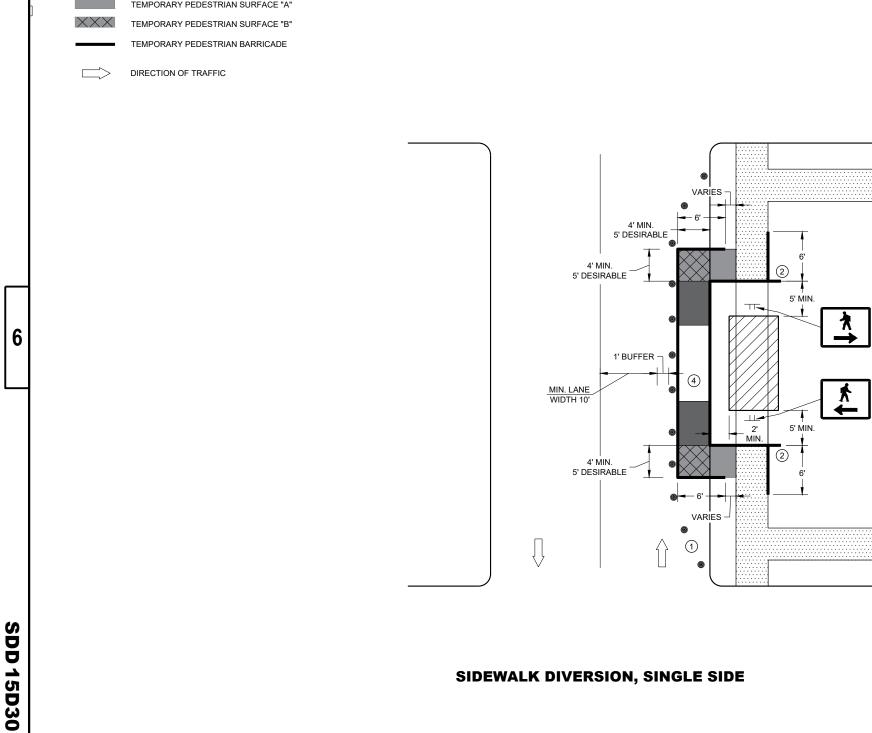
SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

- $\begin{tabular}{ll} \hline \end{tabular} \begin{tabular}{ll} \hline \end{t$
- 2 PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL PAST THE SIDEWALK ON THE SIDE AWAY FROM THE ROAD.
- 3 MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.
- (4) USE EXISTING PAVEMENT SURFACE. IF EXISTING PAVEMENT SURACE HAS BEEN REMOVED, USE A TEMPORARY PEDESTRIAN SURFACE.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION 2 SD



CURB RAMP PEDESTRIAN TRAFFIC CONTROL

SIDEWALK ON SINGLE SIDE

2

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

60

<u>1</u>

DIRECTION OF TRAFFIC

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

- (1) SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
- 2 PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
- ③ USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
- 4 MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
- (5) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
- (6) WHITE 6" TEMPORARY PAVEMENT MARKING
- $\begin{picture}(60,0)\put(0,0){\line(0,0){10}}\put(0,0){\line(0,0){10}$
- 8 4 FEET MINIMUM, 5 FEET DESIRABLE
- $\begin{tabular}{ll} \end{tabular} \begin{tabular}{ll} \end{tabular} \beg$

LEGEND

TRAFFIC CONTROL DRUM WORK AREA TEMPORARY CURB RAMP TEMPORARY PEDESTRIAN SURFACE "A" TEMPORARY PEDESTRIAN SURFACE "B" TEMPORARY DETECTABLE WARNING FIELD TEMPORARY PEDESTRIAN BARRICADE OPTIONAL TEMPORARY PEDESTRIAN BARRICADE

> TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

> > STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

SDD 15D30 <u>09</u>j MIN. 11

2' MIN.

TEMPORARY PAVEMENT MARKING

1' BUFFER -

REMOVABLE MASK OUT TAPE

CURB RAMP PEDESTRIAN TRAFFIC CONTROL

1' BUFFER

2

1

5' MIN

MIN

90° OPTION

2' MIN.

5' MIN

1' BUFFER -

VARIES -

45° OPTION

SDD 15D30

SD

LEGEND

SIGN ON PERMANENT SUPPORT

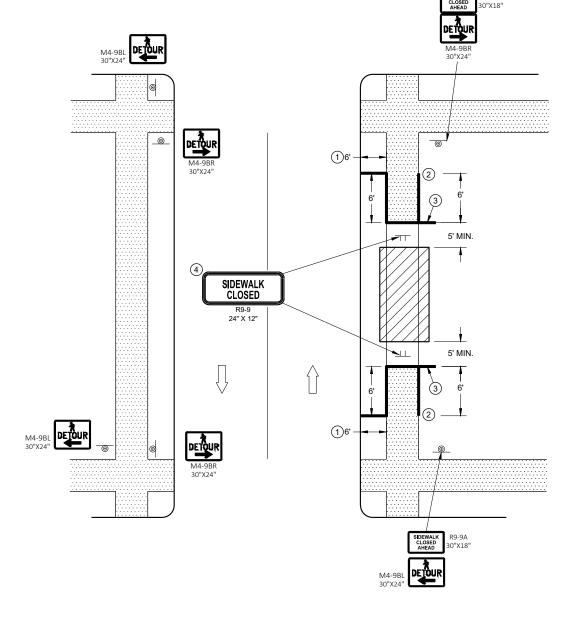
SIGN ON TEMPORARY SUPPORT

UNDER PEDESTRIAN TRAFFIC

WORK AREA

TEMPORARY PEDESTRIAN BARRICADE

DIRECTION OF TRAFFIC



SIDEWALK DETOUR, SIDEWALK ON BOTH SIDES

GENERAL NOTES

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

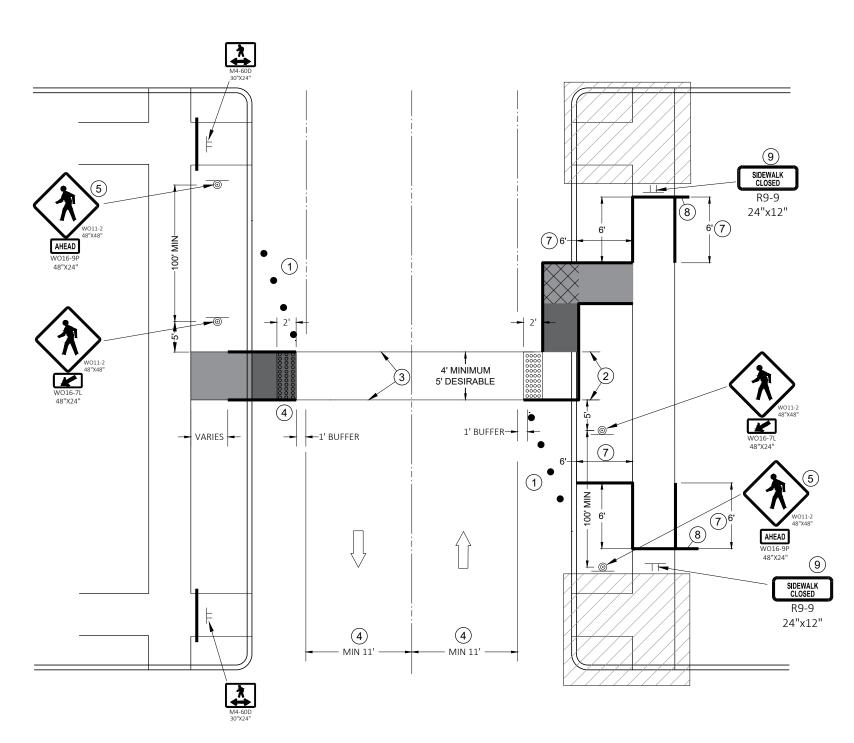
SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

PLACE TEMPORARY PEDESTRIAN BARRICADE TO FIT FIELD CONDITIONS, AVOIDING CONFLICT WITH DRIVEWAYS AND OTHER EXISTING FEATURES.

- 1 IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
- (2) PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
- (3) IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
- 4 MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



TEMPORARY PEDESTRIAN CROSSING

SDD

15D30

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

SEE OTHER PEDESTRIAN ACCOMMODATION DETAILS FOR SIGNING AND DEVICES FOR DIFFERENT PEDESTRIAN FACILITIES CLOSURES.

- (1) SHOULDER OR LANE CLOSURE ADVANCED WARNING AND PROPER BUFFER SPACE REQUIRED.
- 2 4 FEET MINIMUM, 5 FEET DESIRABLE.
- (3) WHITE 6" TEMPORARY PAVEMENT MARKING.
- (4) IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, PERPENDICULAR CURB RAMPS MAY NEED TO BE UTILIZED.
- $_{\mbox{\Large 5}}$ IF MINIMUM 100' SPACING FROM THE MID-BLOCK CROSSING CANNOT BE ATTAINED BEFORE THE INTERSECTION, REMOVE THIS SIGN ASSEMBLY.
- IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
- PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
- (8) IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF THE EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
- (9) MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF THE SIGN.

LEGEND

TRAFFIC CONTROL DRUM

SIGN ON TEMPORARY SUPPORT

TEMPORARY CURB RAMP

TEMPORARY DETECTABLE WARNING FIELD

TEMPORARY PEDESTRIAN SURFACE "A" TEMPORARY PEDESTRIAN SURFACE "B"

WORK AREA

TEMPORARY PEDESTRIAN BARRICADE

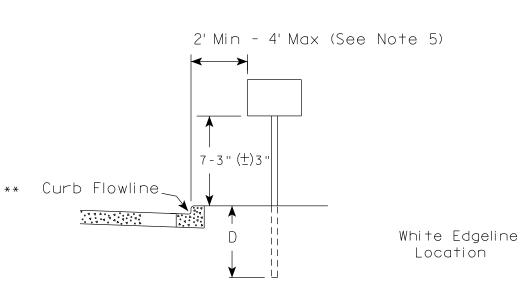
DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

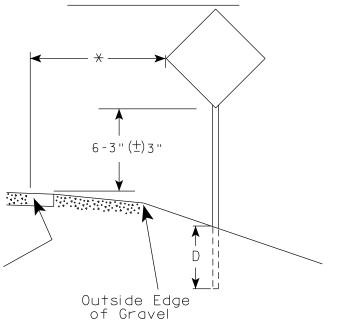
> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

5





RURAL AREA (See Note 2)



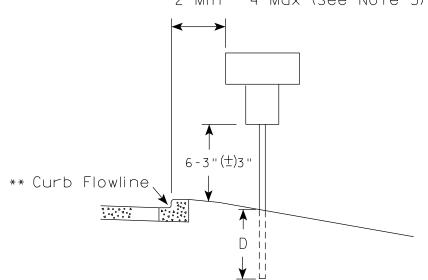
GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.

The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (\pm) 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" (\pm) 3".

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

2' Min - 4' Max (See Note 5)



White Edgeline
Location

Outside Edge
of Gravel

POST EMBEDMENT DEPTH

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

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.

* 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.

PLOT BY : mscj9h

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 12/6/23 PLATE NO. __A4-3.23

Ε

PROJECT NO: HWY: COUNTY: SHEET NO:



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

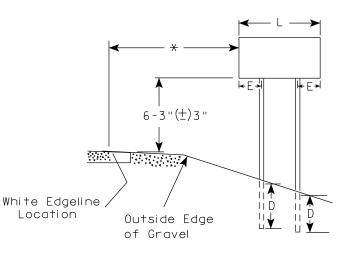
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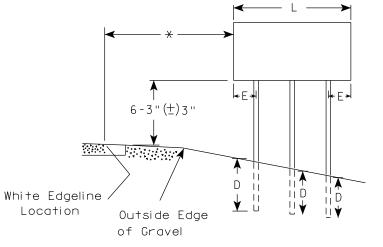
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

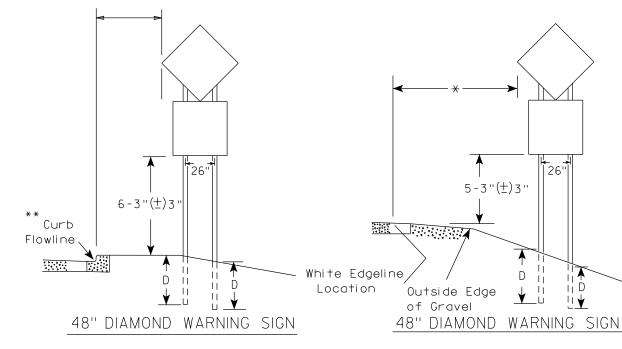
APPROVED

WISDOT/CADDS SHEET 42





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



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

HWY:

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

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" (±) 3" or 6'-3" (±) 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) 3'' or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 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" (±) 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.
- $\times \times \times$ See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE 12/6/23

PLATE NO. <u>A4-4.16</u>

Ε

CUEET NO.

SHEET NO:

FILE NAME : C:\CAEfiles\Project\tr_stdplate\A44.dgn

PROJECT NO:

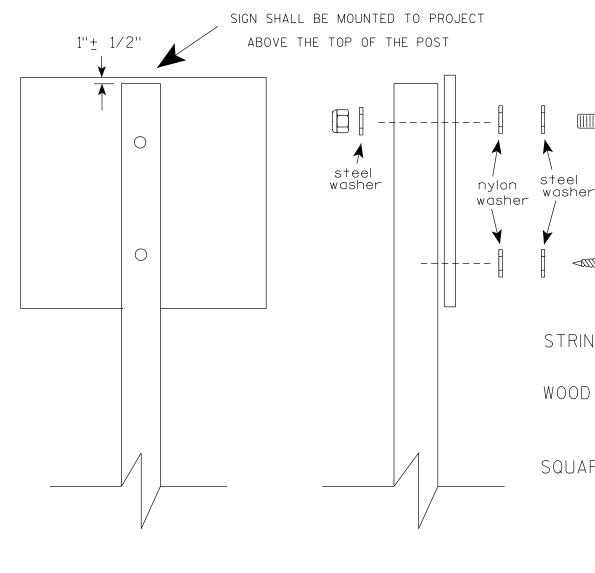
COUNTY:

PLOT DATE: 6-DEC 2023 11:31

PLOT NAME :

PLOT BY : mscj9h

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



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

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

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

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

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

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

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

SQUARE STEEL POSTS (2" x 2")

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

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

WASHERS (ALL POSTS) -

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

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

ATTACHMENT OF SIGNS TO POSTS

APPROVED

DATE 4/1/2020

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

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

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

WISCONSIN DEPT OF TRANSPORTATION

Matther ≠or State Traffic Engineer

SHEET 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



BANDING



SINGLE SIGN





WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

1-1/4" O.D. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

CHANNEL

GENERAL NOTES

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be $\frac{3}{4}$ " in width and 0.025" thickness.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

State Traffic Engineer

COUNTY:

PLOT NAME :

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

PROJECT NO:

31/2"

VIEW FROM TOP

GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, $\frac{3}{4}$ " WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS.

 SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X $1/_{16}$ "
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

 \rightarrow LAG BOLTS SHALL BE $\frac{3}{8}$ " X $\frac{2}{2}$ "

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED //

DATE 4/19/2022 PLATE NO. _A5-10.3

ATE 4/19/2022 PLATE NO. _

SHEET NO:

SIGN

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A510.dgn

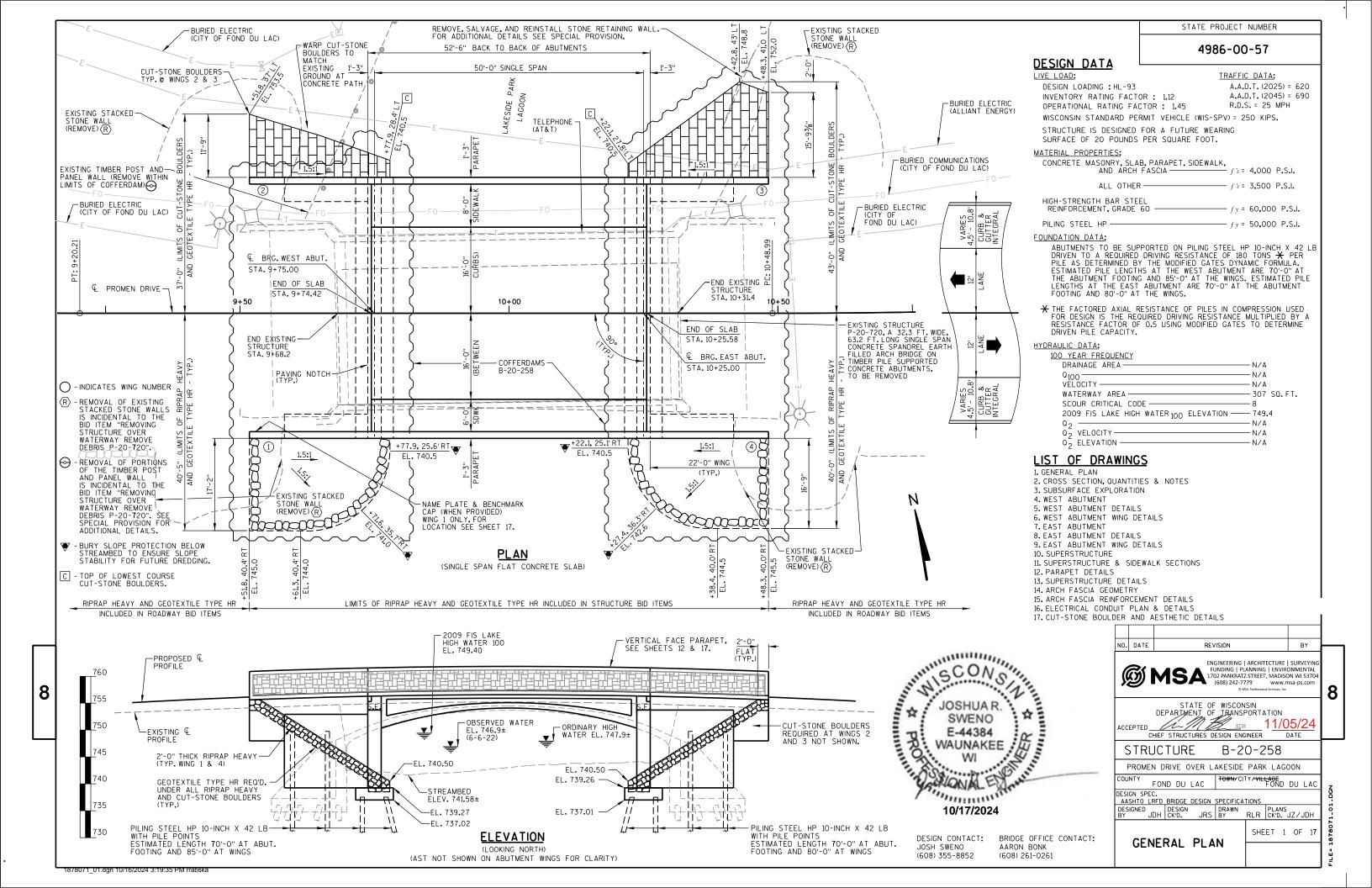
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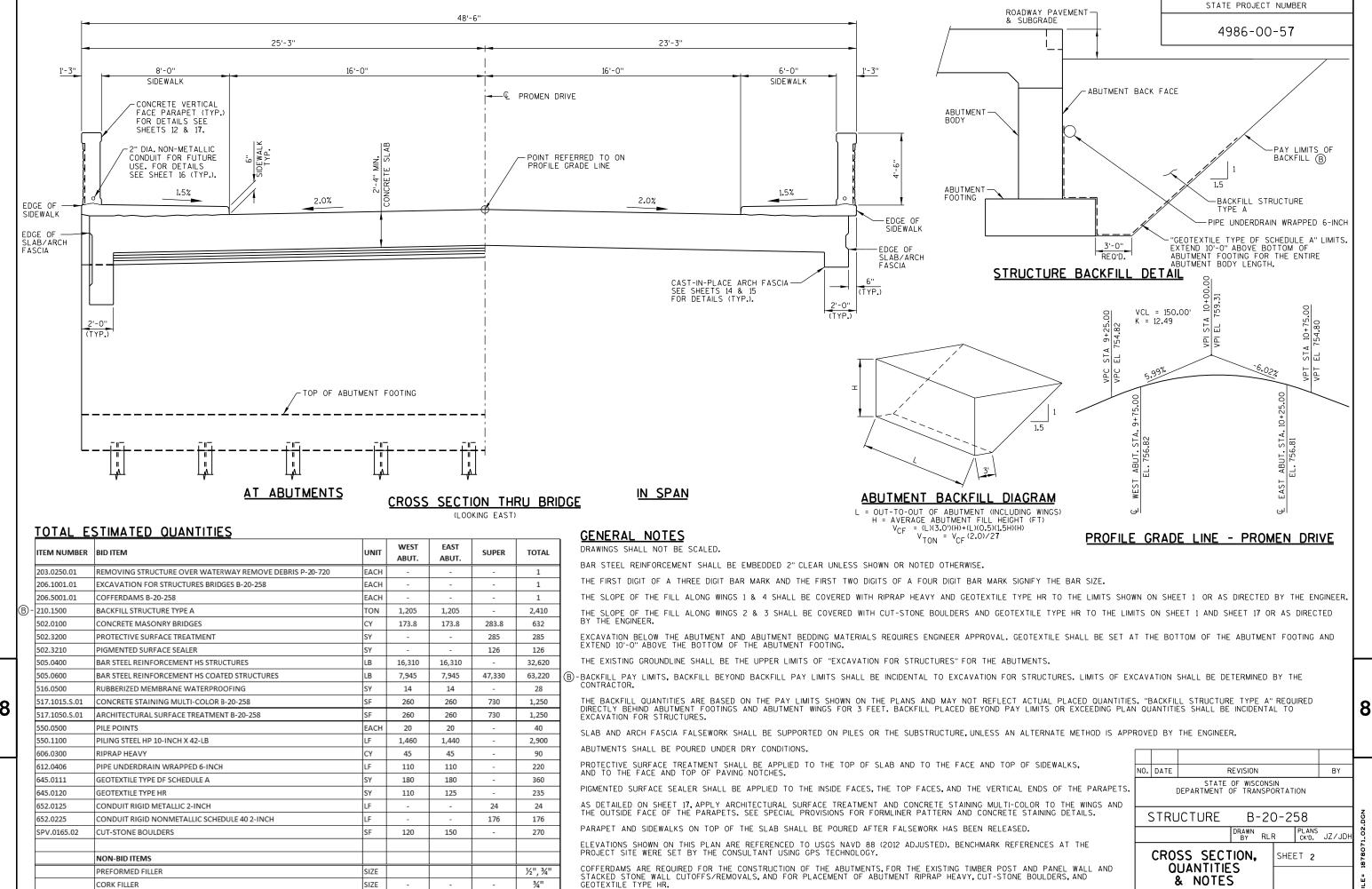
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PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε



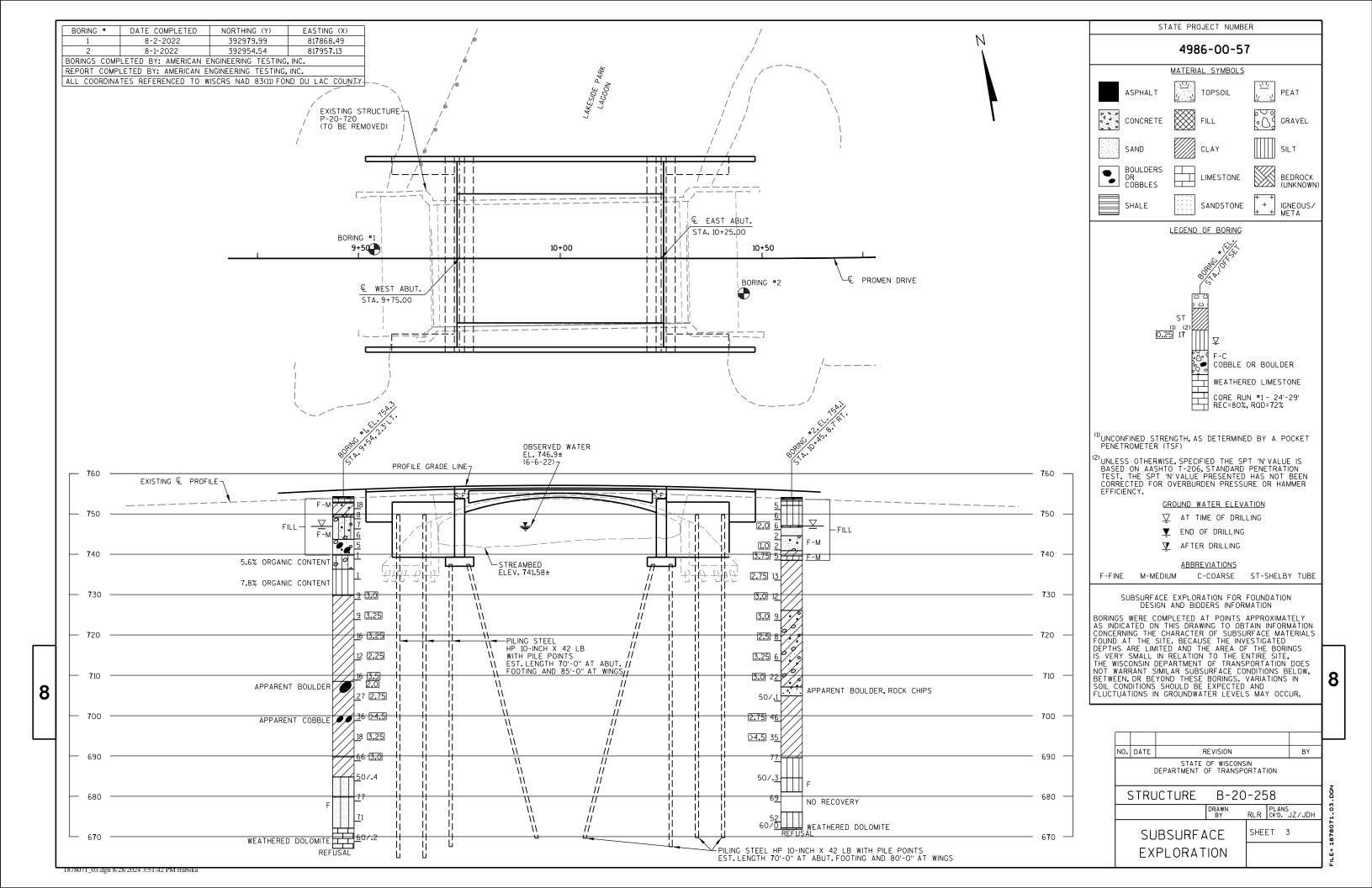


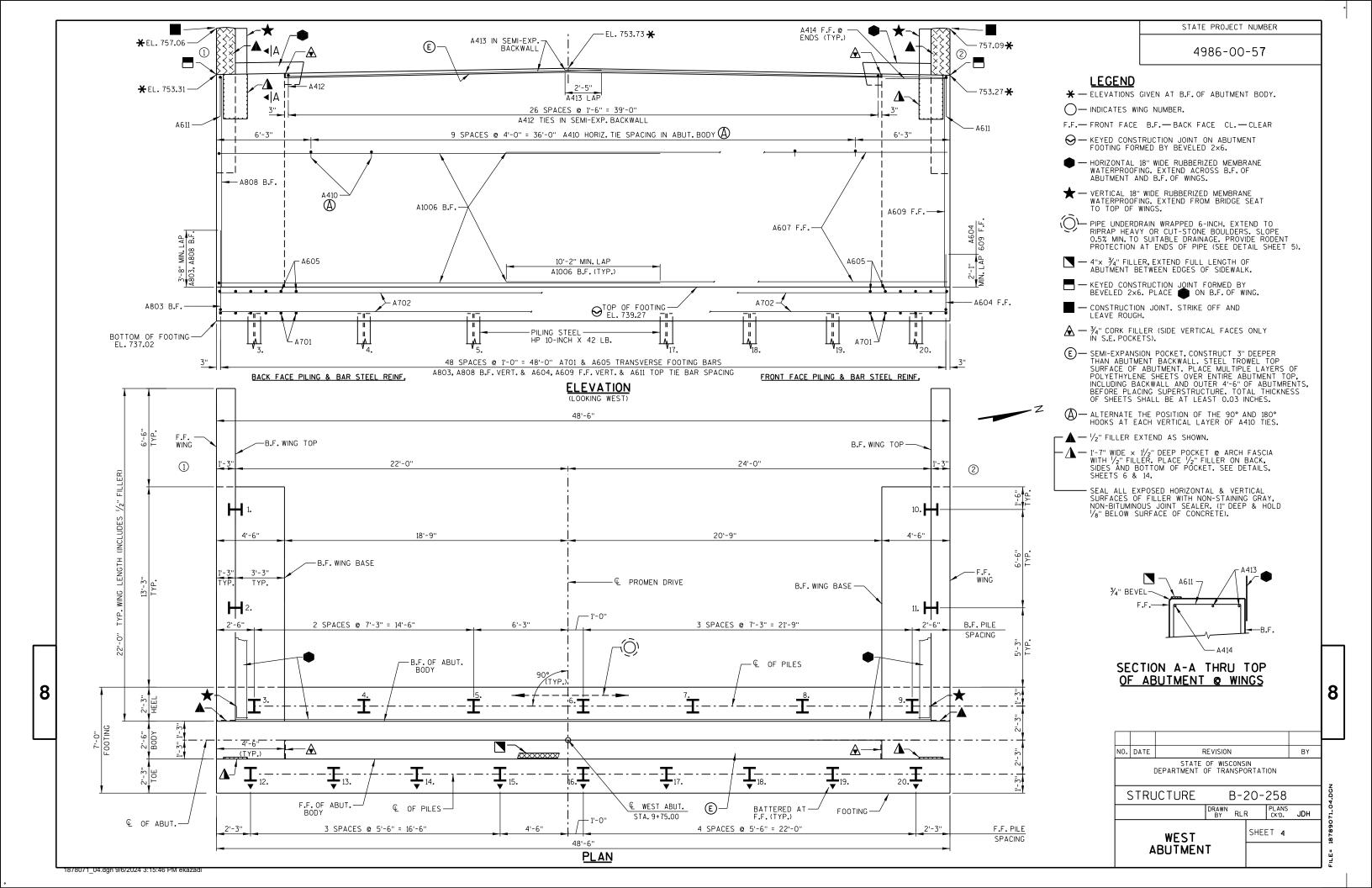
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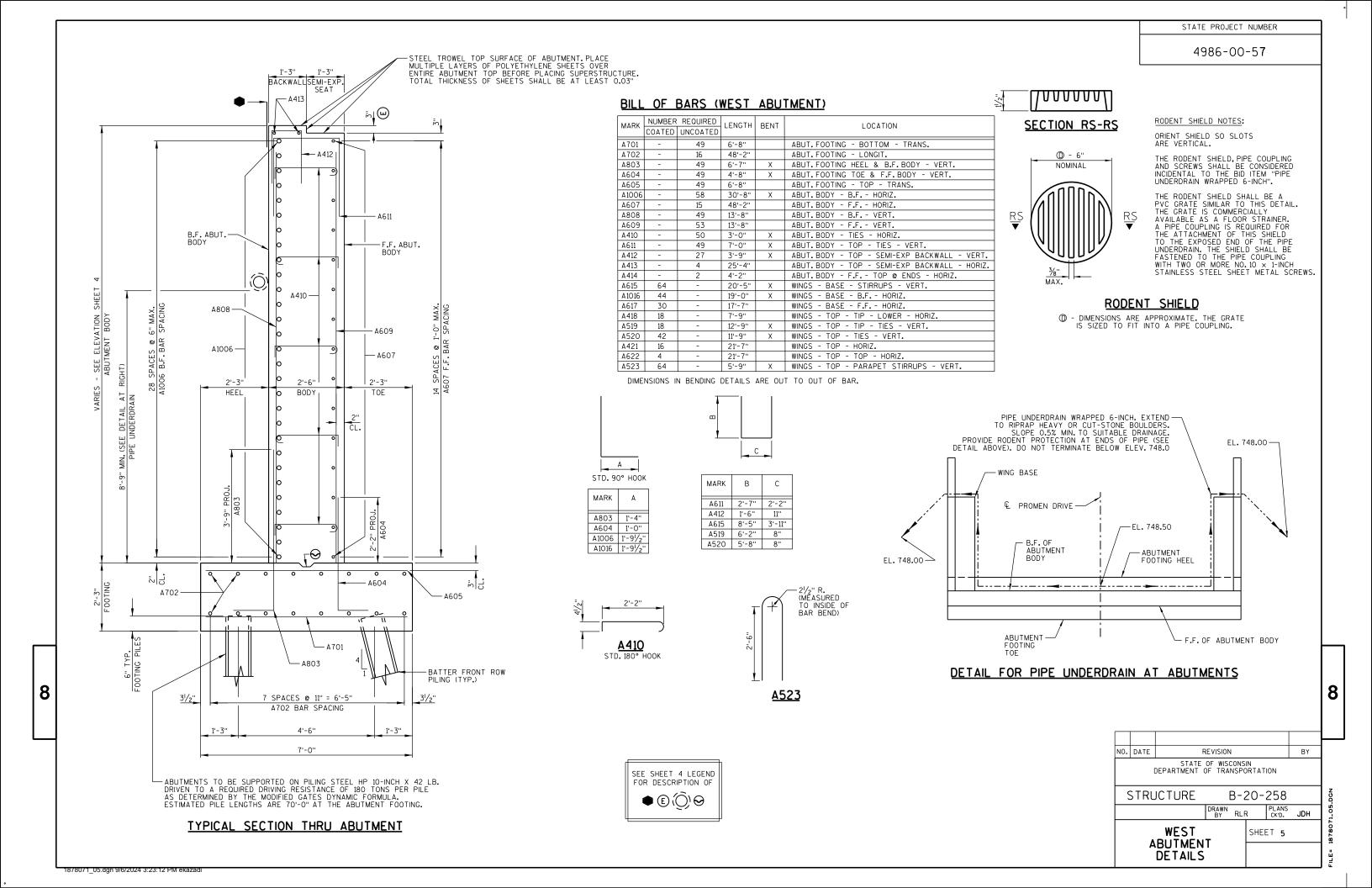
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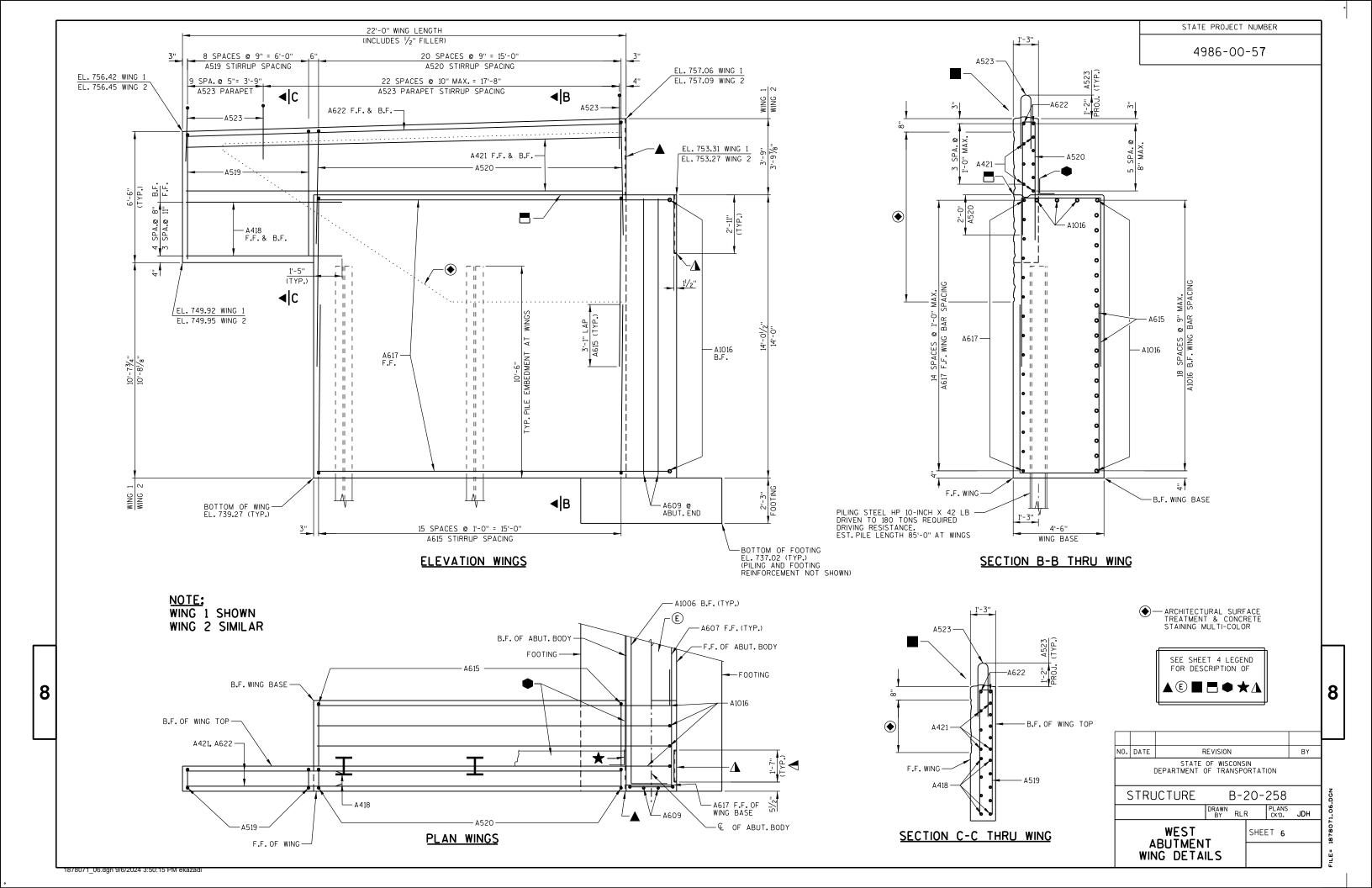
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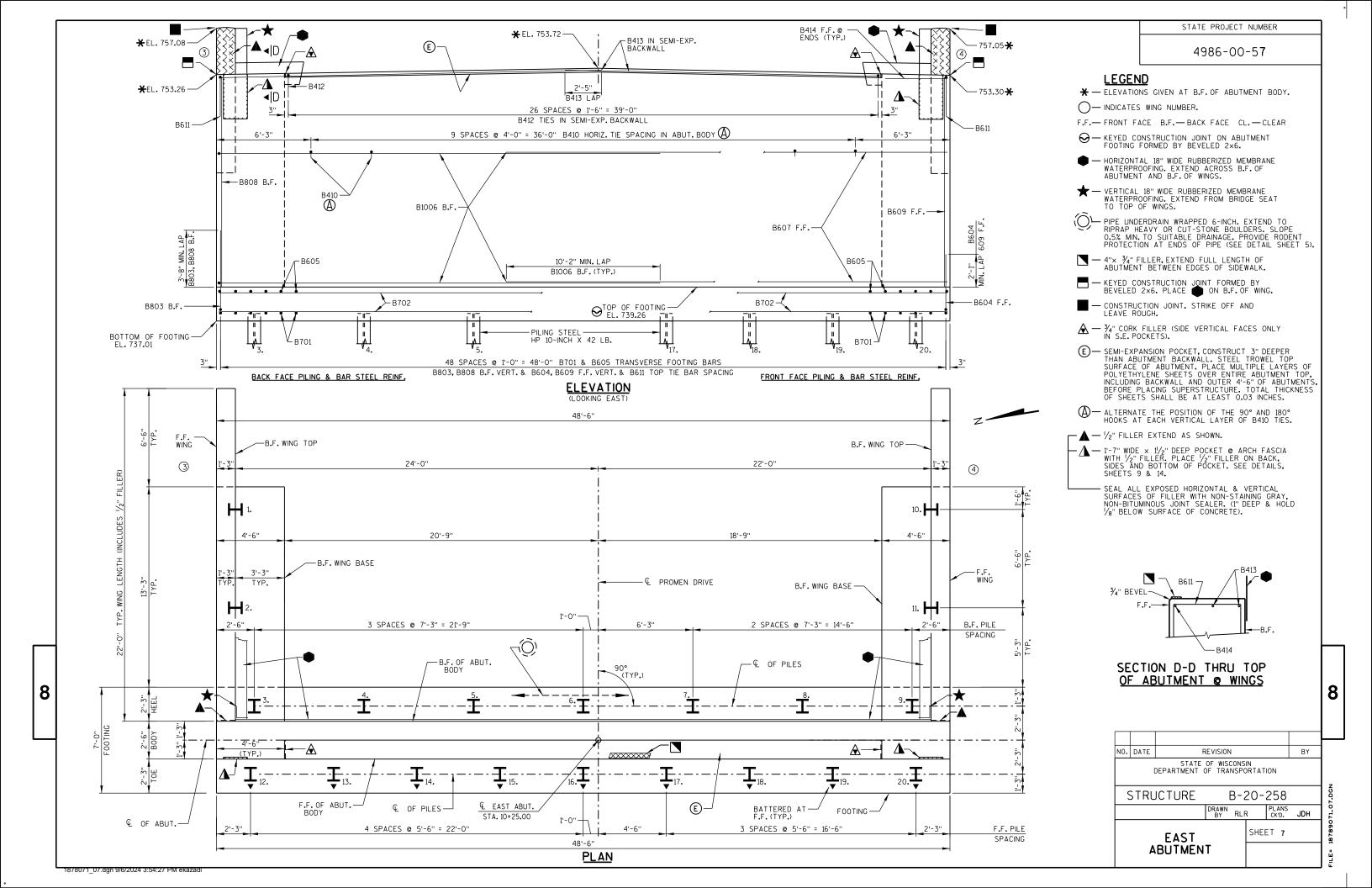
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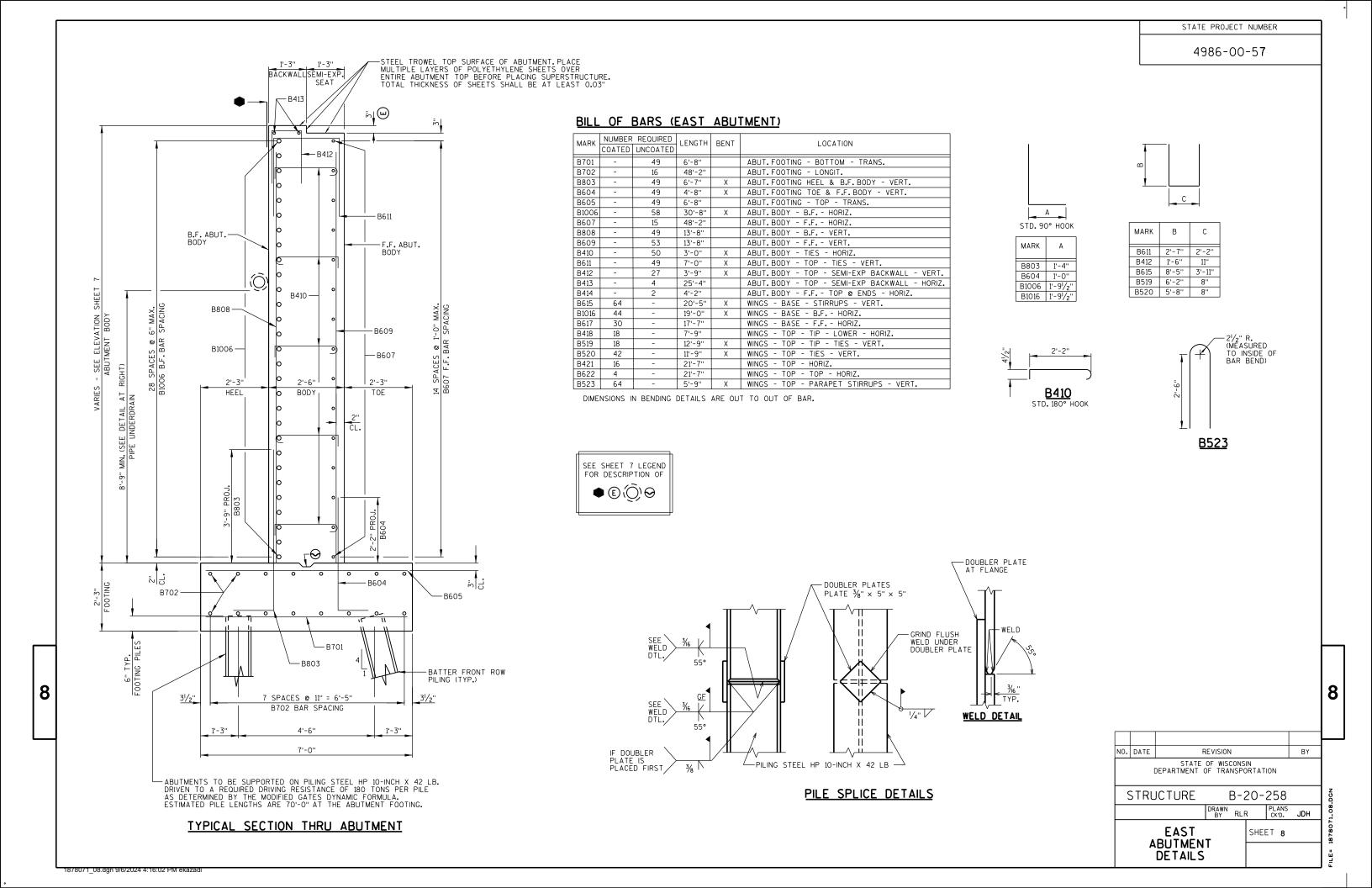


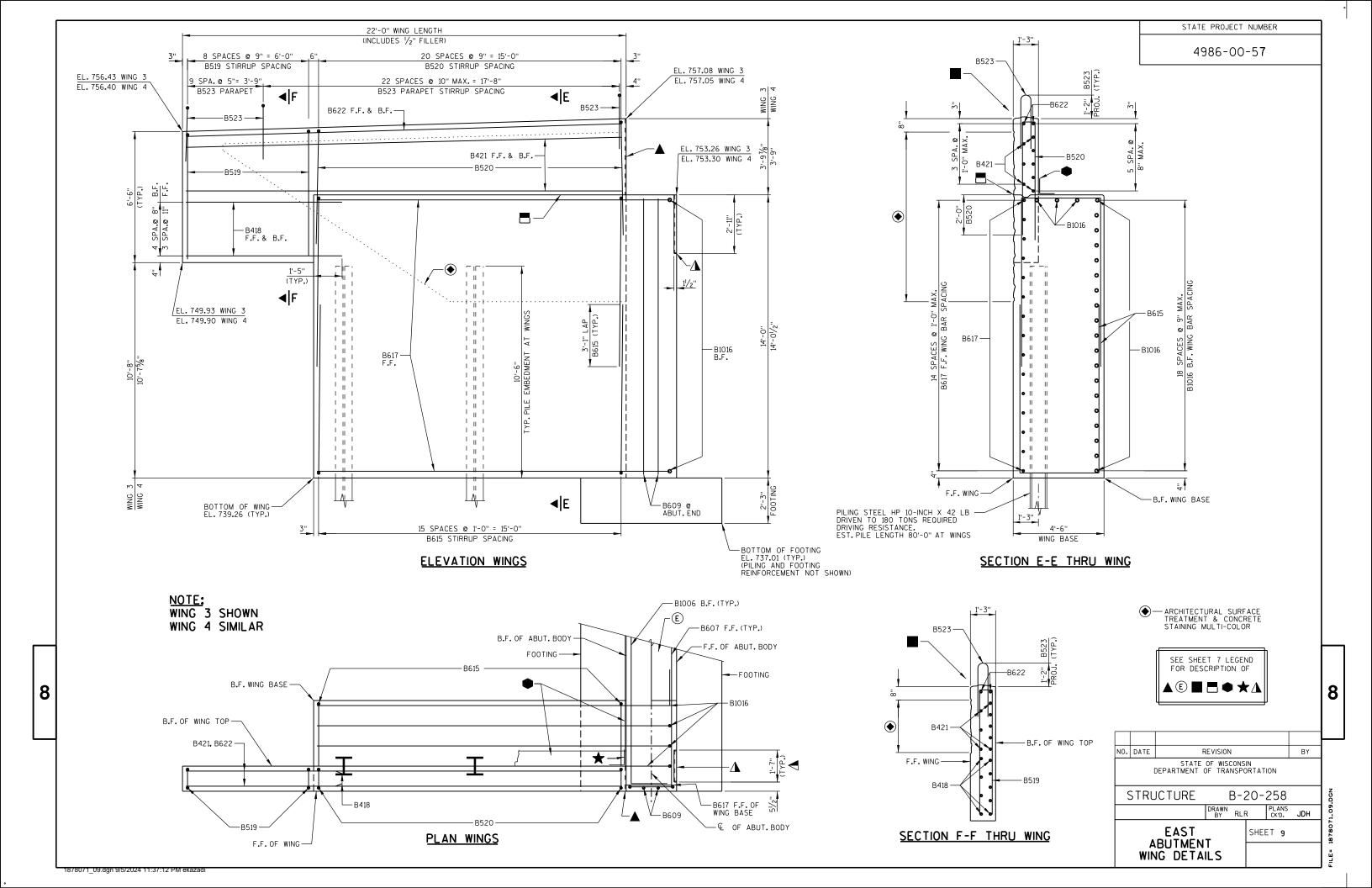


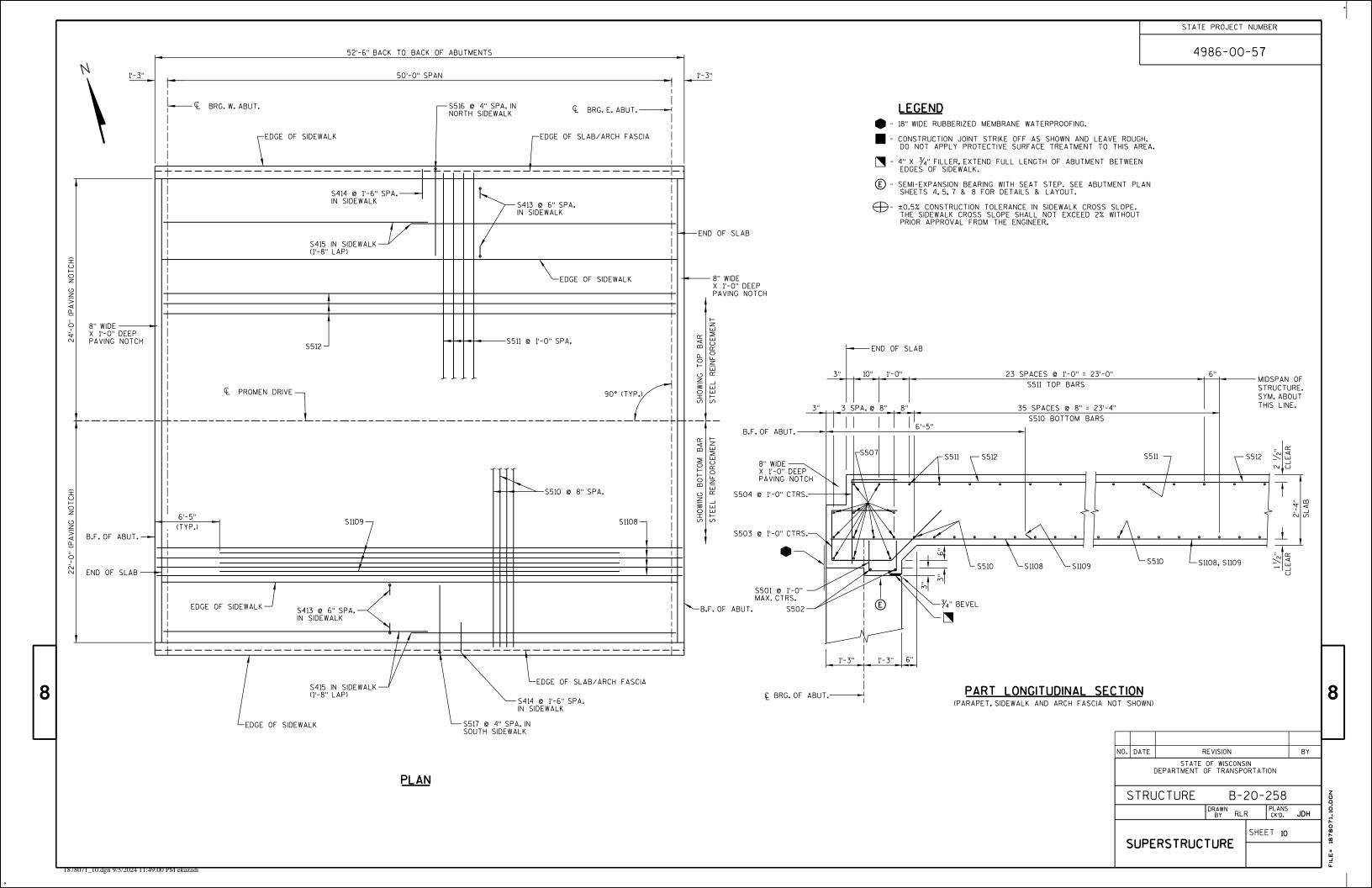


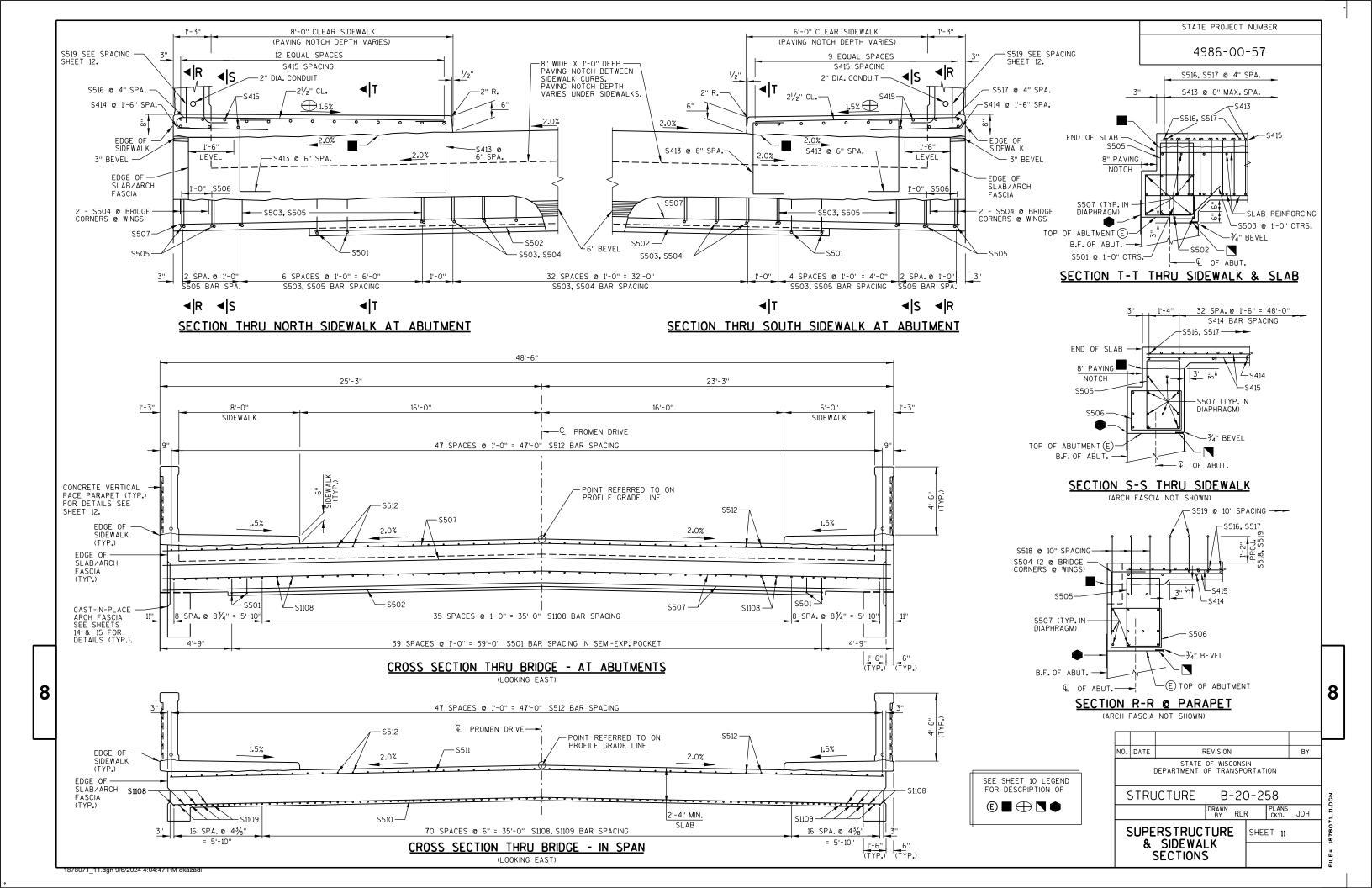


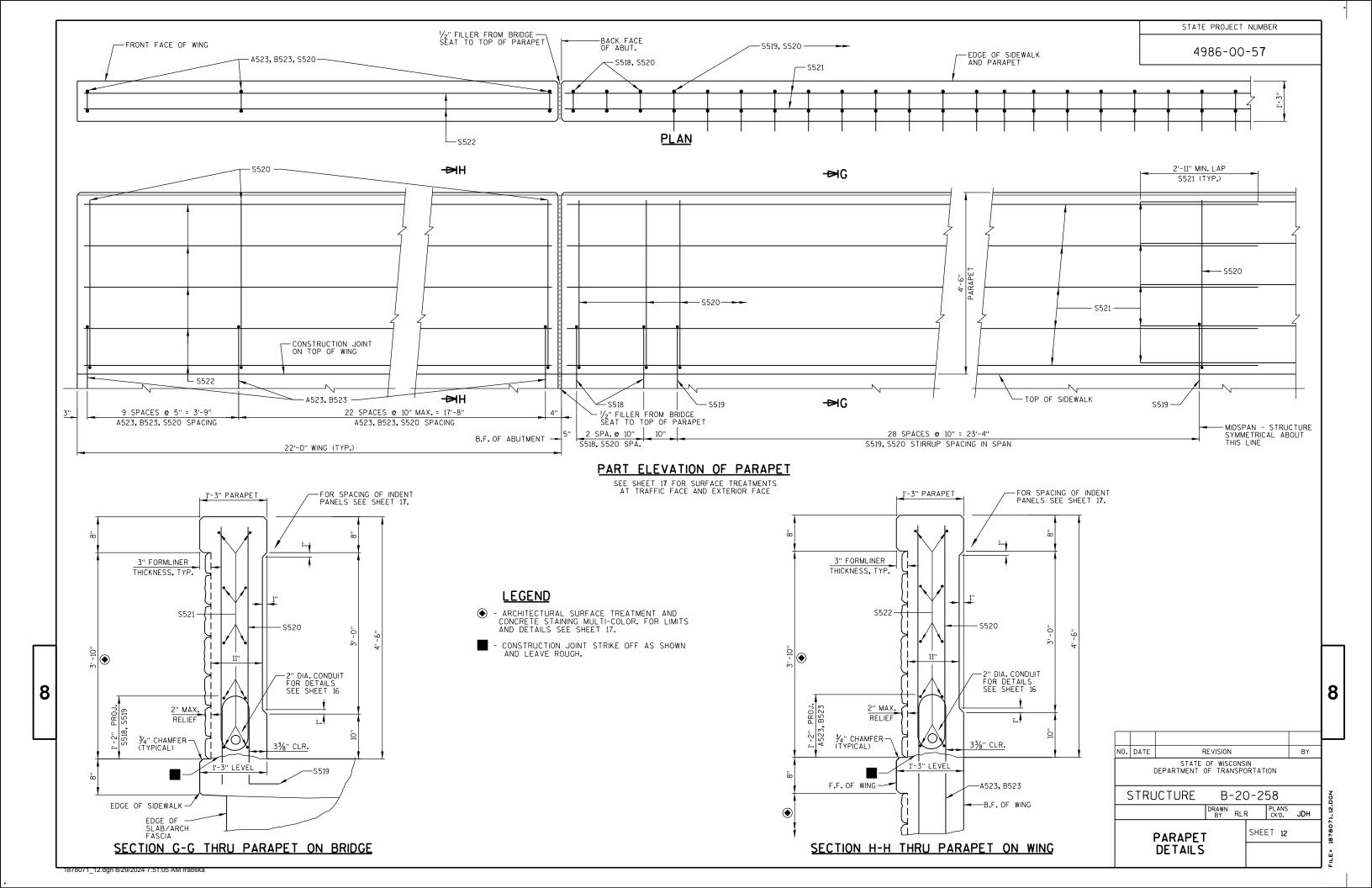




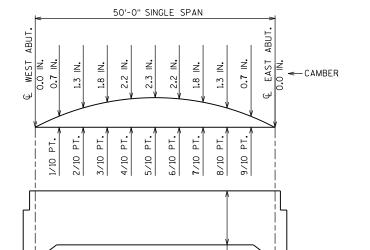




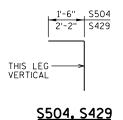


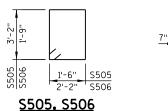


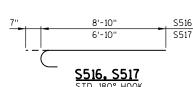
4986-00-57



MARK Α В S501 1'-0" 11" 2'-0" S413 <u>1'-0"</u> 2'-4" S425 1'-11" 1'-0" **S503**







CAMBER AND SLAB THICKNESS DIAGRAM CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS.

CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

PARAPETS AND SIDEWALKS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED.

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE:

TOP OF SLAB ELEVATION AT FINAL GRADE
MINUS -- SLAB THICKNESS
PLUS -- CAMBER
PLUS -- FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)

EQUALS = TOP OF SLAB FALSEWORK ELEVATION

TOP OF SLAB ELEVATIONS

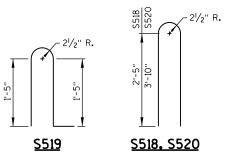
	C/L BRG WEST ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	C/L BRG EAST ABUT.
SOUTH EDGE OF SLAB & INSIDE											
FACE OF ARCH FASCIA	756.39	756.48	756.55	756.60	756.63	756.64	756.63	756.60	756.54	756.47	756.38
C/L PROMEN DRIVE	756.82	756.90	756.97	757.02	757.05	757.06	757.05	757.02	756.97	756.90	756.81
NORTH EDGE OF SLAB & INSIDE											
FACE OF ARCH FASCIA	756.35	756.44	756.51	756.56	756.59	756.60	756.59	756.56	756.50	756.43	756.34

←SLAB THICKNESS

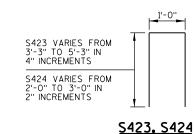
SURVEY TOP OF SLAB ELEVATIONS

	€ WEST ABUTMENT	5/10 PT.	€ EAST ABUTMENT
SOUTH SLAB EDGE			
& PROMEN DRIVE			
NORTH SLAB EDGE			

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE \P OF ABUTMENTS, AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG THE SLAB EDGES AND CROWN OR \P . RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.



STIRRUP RADII SHOWN ARE MEASURED TO THE INSIDE OF THE BAR BEND.



BILL OF BARS (COATED)

MARK	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION				
S501	80	2'-8"	Х		DIAPHRAGM @ ABUTS S.E. POCKET - VERT.				
S502	4	39'-2"			DIAPHRAGM @ ABUTS S.E. POCKET - TRANS.				
S503	90	7'-9"	Х		DIAPHRAGM @ ABUTS STIRRUP - VERT.				
S504	74	4'-0"	Х		DIAPHRAGM @ ABUTS TIE - VERT.				
S505	32	10'-0"	Х		DIAPHRAGM @ ABUT.ENDS STIRRUP - VERT.				
S506	8	8'-6"	Х		DIAPHRAGM @ ABUT.ENDS STIRRUP - VERT.				
S507	24	48'-2"			DIAPHRAGM @ ABUTS TRANS.				
S1108	52	52'-2"			SLAB BOTTOM - LONGIT.				
S1109	51	39'-8"			SLAB BOTTOM - LONGIT.				
S510	71	46'-10"			SLAB BOTTOM - TRANS.				
S511	48	47'-2"			SLAB TOP - TRANS.				
S512	48	50'-10"			SLAB TOP - LONGIT.				
S413	412	4'-2"	Х		SLAB & INTO SIDEWALK - VERT.				
S414	70	3'-0"			SIDEWALK BOTTOM - TRANS.				
S415	58	26'-3"			SIDEWALK - LONGIT.				
S516	153	9'-5"	Х		SIDEWALK - NORTH SIDE - TOP - TRANS.				
S517	153	7'-5"	Χ		SIDEWALK - SOUTH SIDE - TOP - TRANS.				
S518	12	5'-8"	Χ		PARAPET STIRRUP OVER ABUT VERT.				
S519	114	4'-4"	Х		PARAPET STIRRUP ON SLAB - VERT.				
S520	254	8'-5"	Х		PARAPET STIRRUP - TOP - VERT.				
S521	40	27'-8"			PARAPET ON SLAB - LONGIT.				
S522	40	21'-7''			PARAPET ON WING - LONGIT.				
S423	28	9'-4"	Χ	\$	ARCH FASCIA - STIRRUP - VERT.				
S424	28	5'-10"	Χ	\$	ARCH FASCIA - STIRRUP - VERT.				
S425	16	4'-8"	Χ		ARCH FASCIA - STIRRUP - VERT.				
S426	8	25'-3"			ARCH FASCIA - BOTTOM - LONGIT.				
S427	16	15'-0"			ARCH FASCIA - LONGIT.				
S428	4	27'-2"			ARCH FASCIA - TOP - LONGIT.				
S429	72	4'-1"	Х		ARCH FASCIA - TOP - TIE - VERT.				

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR. EPOXY COAT ALL SUPERSTRUCTURE BAR STEEL REINFORCEMENT.

\$ - LENGTH SHOWN FOR BAR IS AN AVERAGE AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BENT BARS IF USED IN BAR SERIES TABLE SHALL BE BENT AFTER CUTTING.

oe		
BAR MARK	NO. REQ'D.	LENGTH
S423	4 SERIES OF 7	7'-4" TO 11'-4"
S424	4 SERIES OF 7	4'-10" TO 6'-10

BAR SERIES TABLE

NOTES

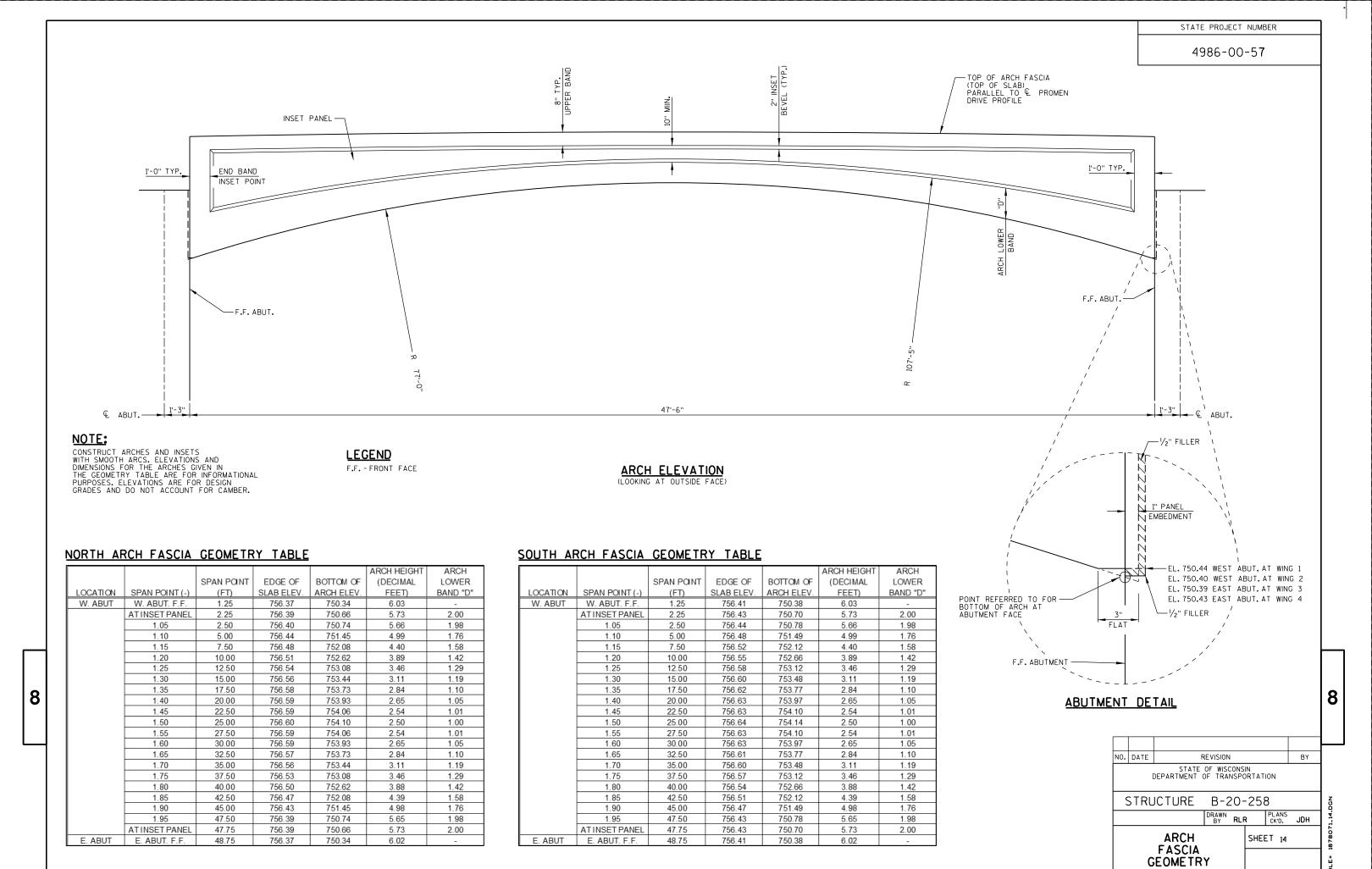
TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

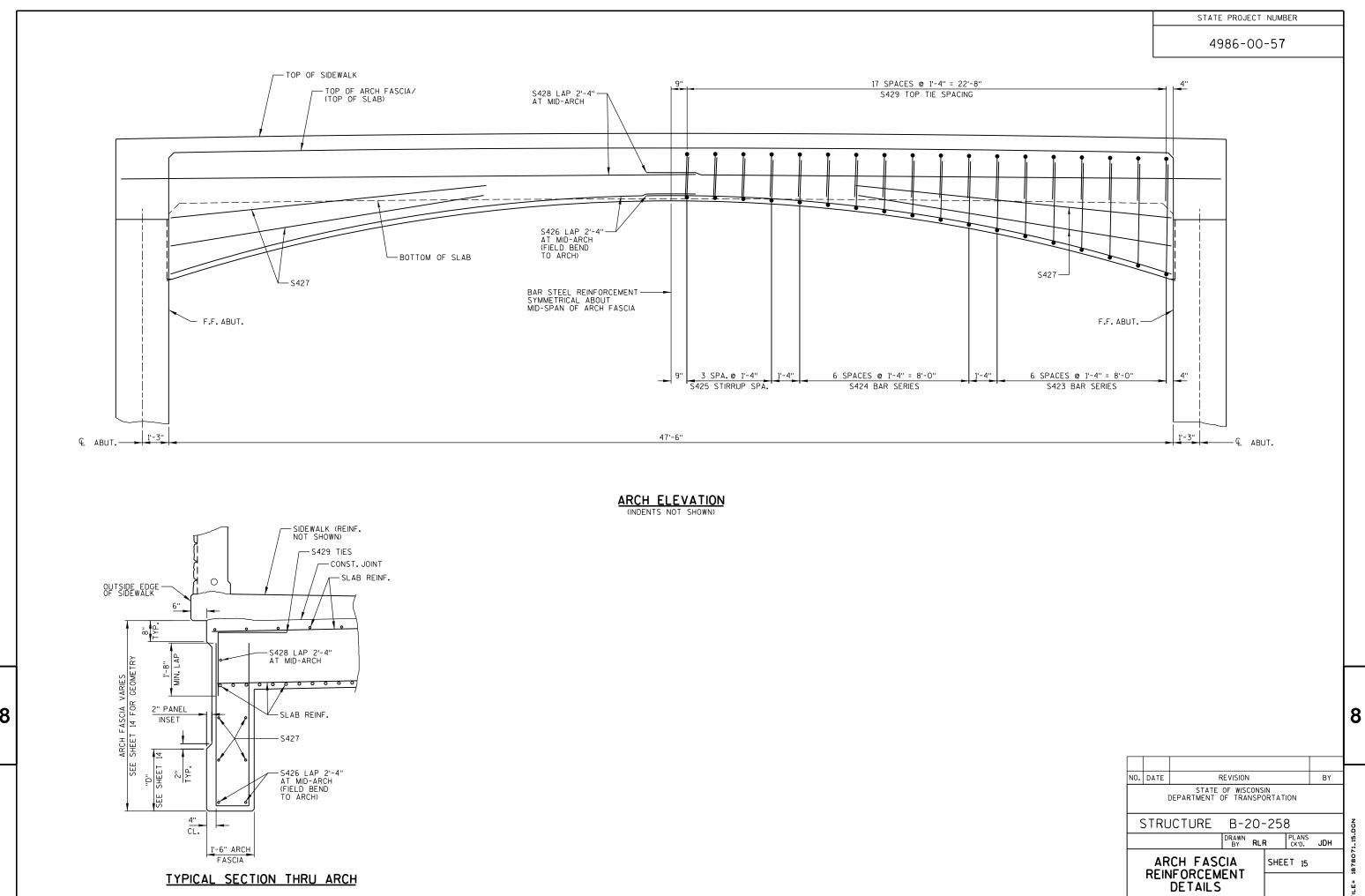
FILL IN THE TABLE OF "SURVEY TOP OF SLAB ELEVATIONS" FOR EACH SPAN ON AS BUILT PLANS.

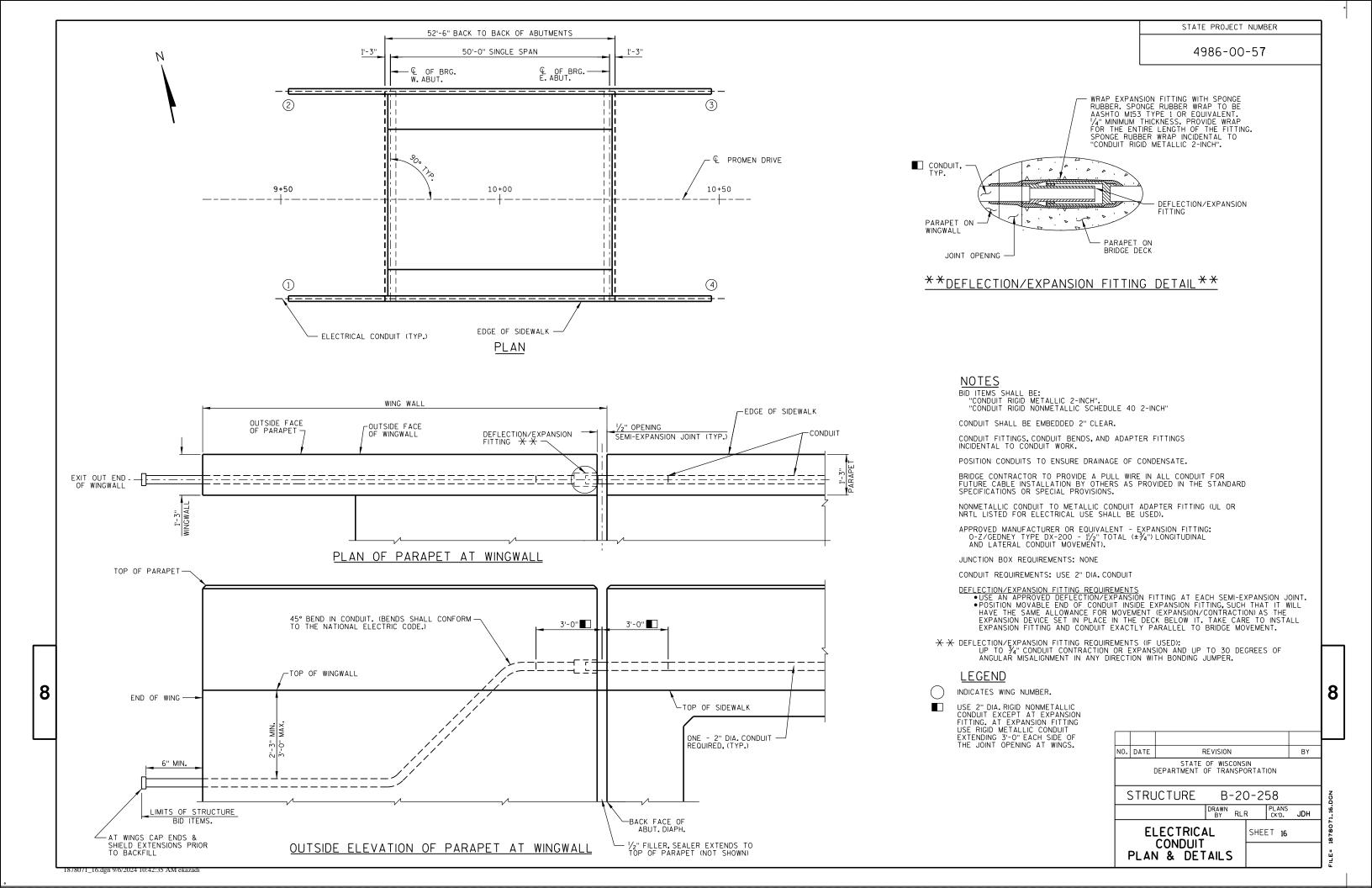
NO. DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-20-258 [DRAWN [Plans
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-20-258 IDRAWN IPLANS
STRUCTURE B-20-258
DRAWN PLANS
DRAWN PLANS
BY RLR CK'D. JDH
SUPERSTRUCTURE DETAILS

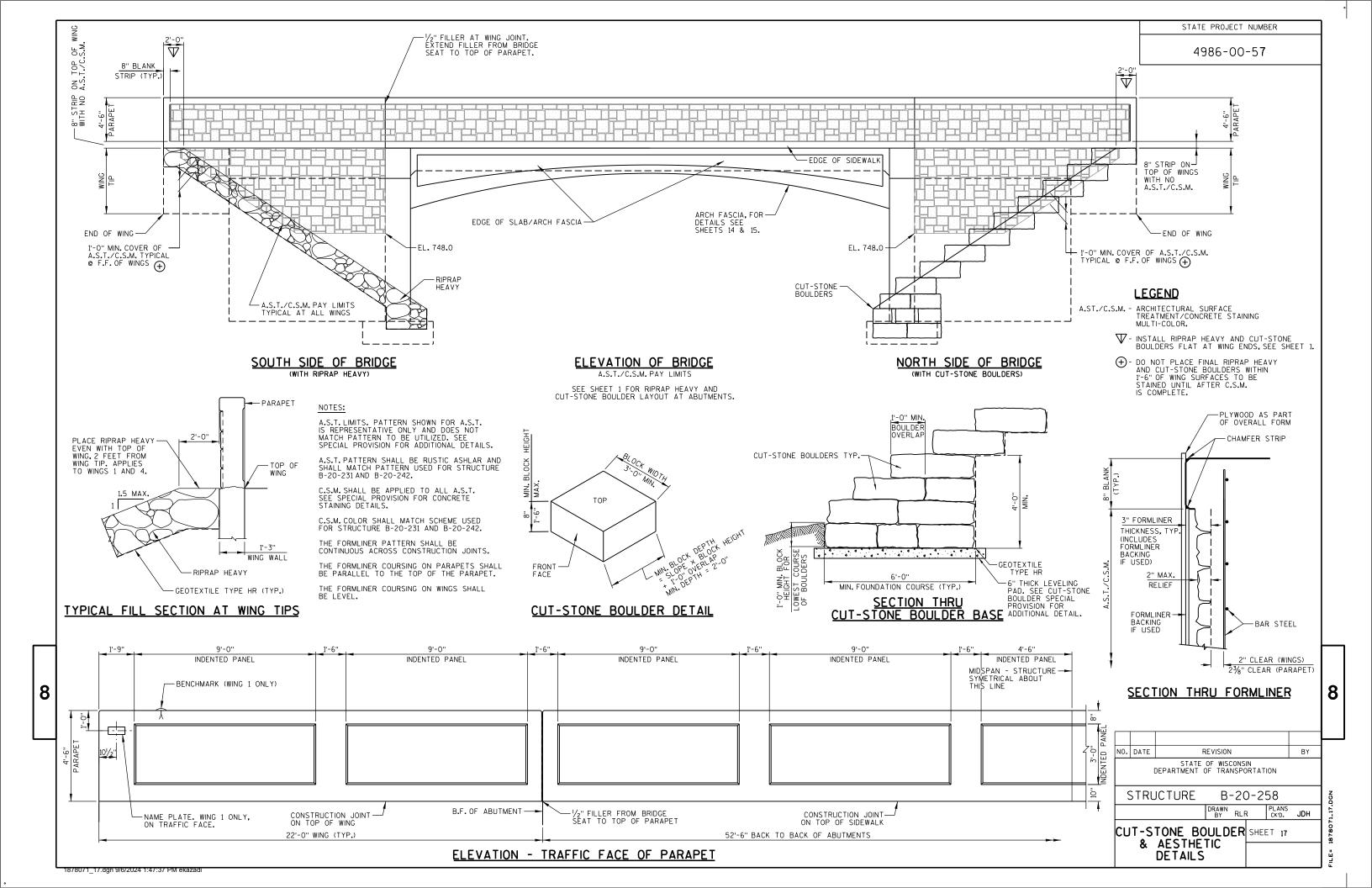
8



[87807] 14.den 9/6/2024 9:24:14 AM ekazad







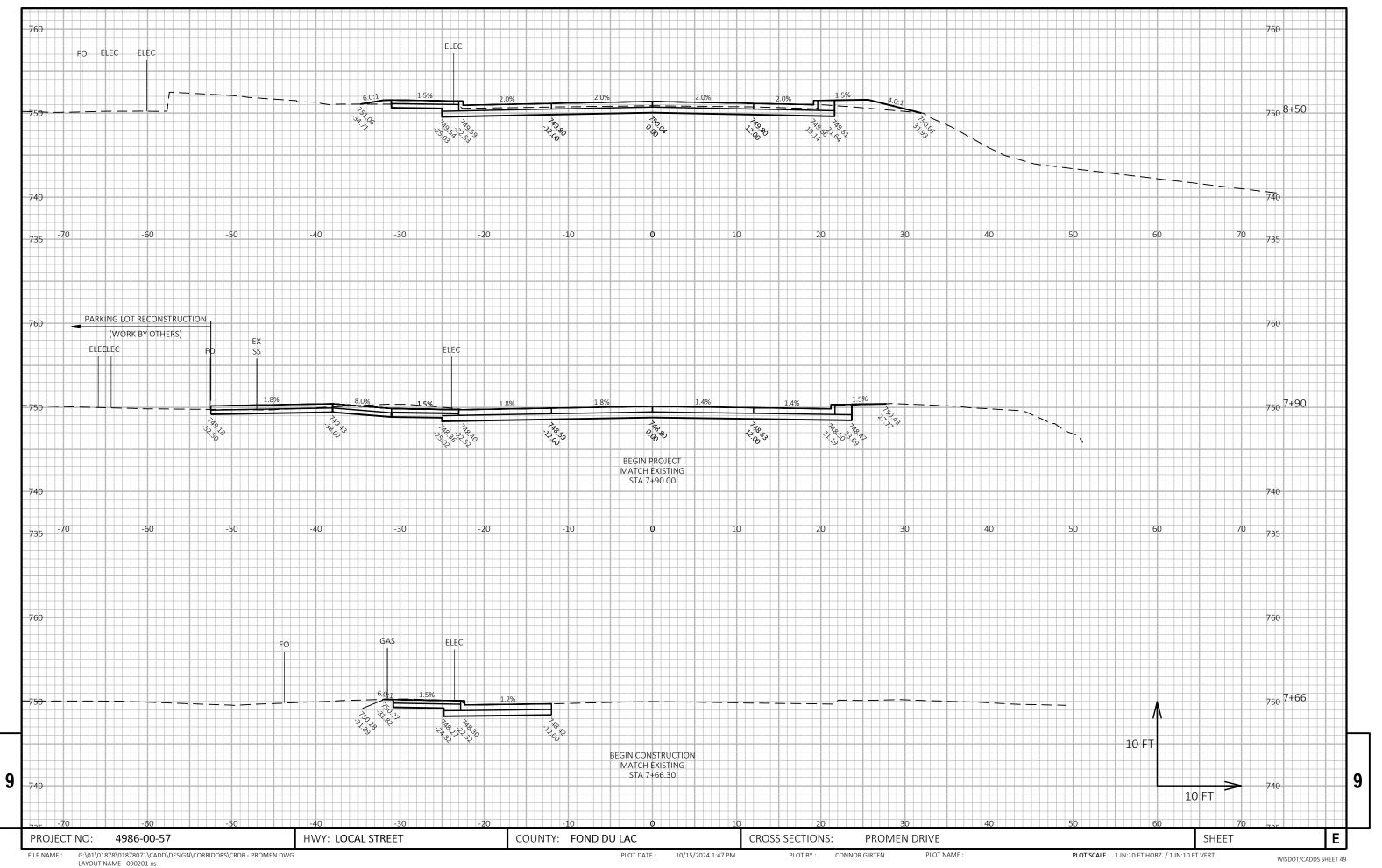
PROJECT I.D. 4986-00-57 EARTHWORK SUMMARY PROMEN DRIVE

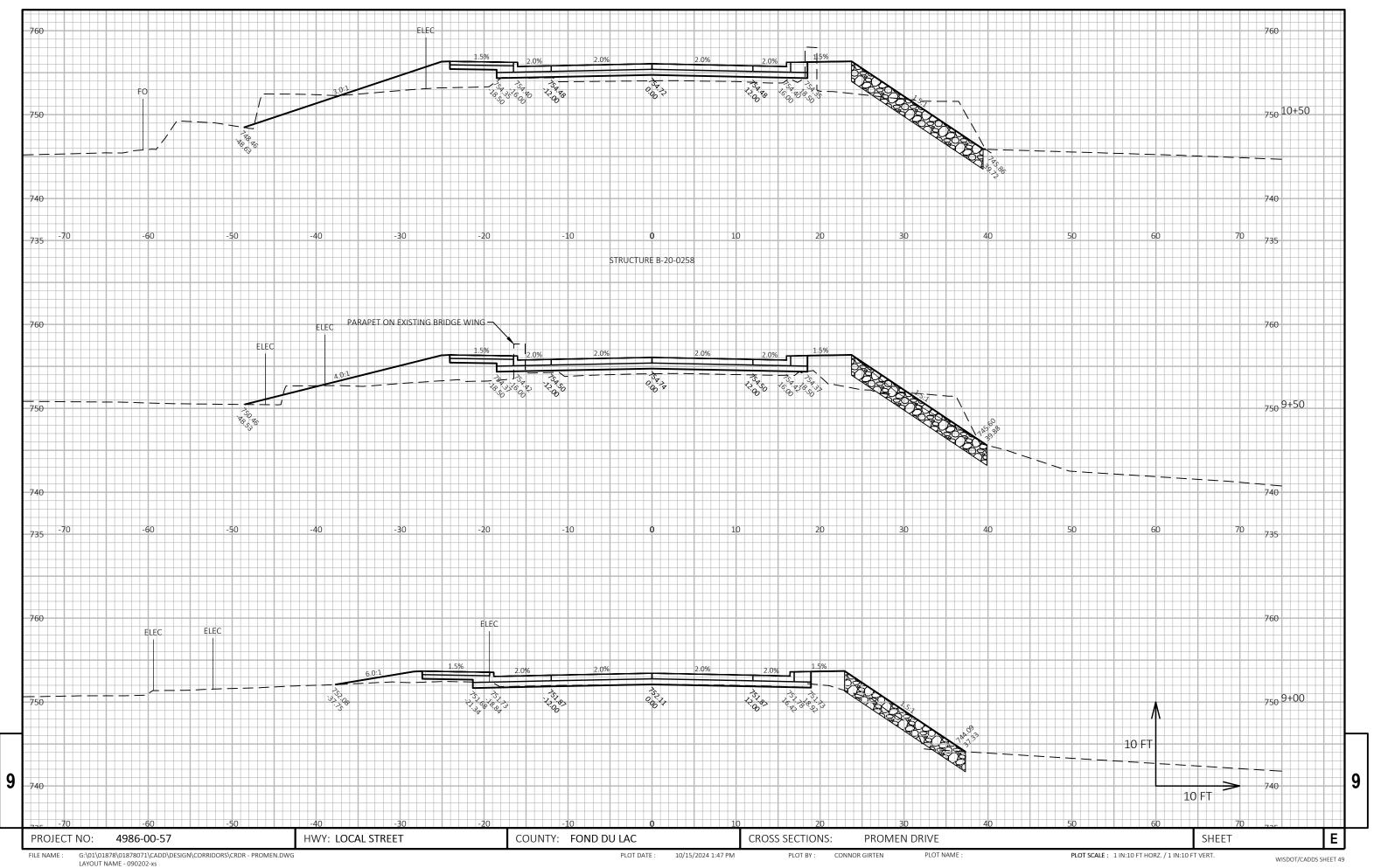
	EXCAVATION		EXPANDED)		
	COMMON	FILL (1)	FILL (2)	WASTE	BORROW	
STA	CY	CY	CY	CY	CY	
7+66.30						
	36	0	0	36	-36	
7+90.00						
	98	8	10	88	-88	
8+50.00						
	22	23	30	-8	8	
9+00.00						
	32	234	304	-272	272	
9+50.00						
STRUCTURE B-20-0258						
10+50.00						
	33	123	160	-127	127	
11+00.00						
	21	37	48	-27	27	
11+50.00						
	83	7	9	74	-74	
12+15.00						
SUBTOTALS						
WEST APPROACH	188	265	344	-156	156	
EAST APPROACH	137	167	217	-80	80	
TOTALS	325	432	561	-236	236	
(1) - NOT A BID ITEM	I - FOR INFORM	ATIONAL I	PURPOSES (ONLY.		
(2) - FILL EXPANSION	N 30%					

9

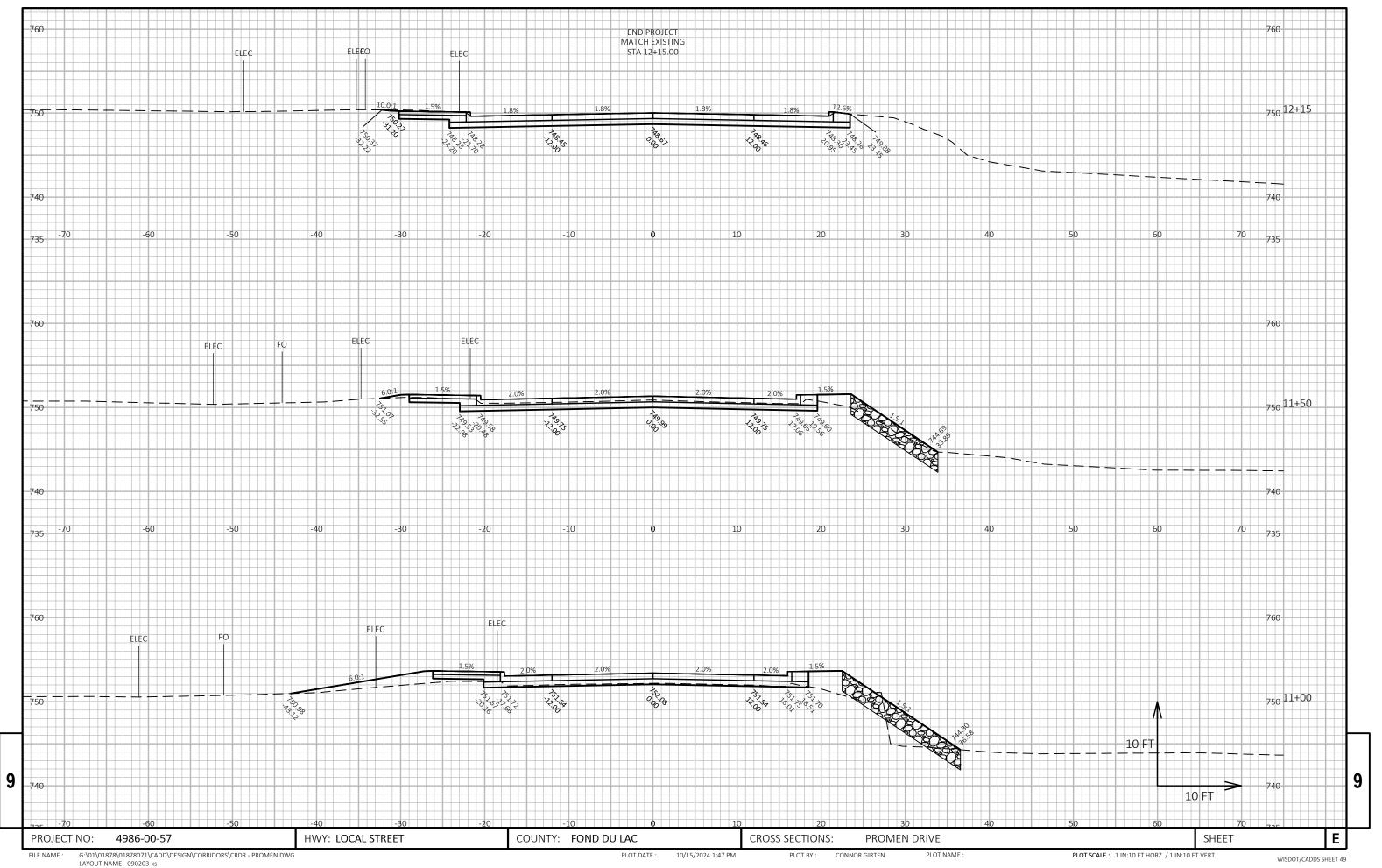
SHEET: Ε PROJECT NO: HWY: LOCAL STREET COUNTY: FOND DU LAC 4986-00-57 EARTHWORK DATA

FILE NAME: N:\PDS\...\030200_mq.pptx PLOT DATE: October 15, 2024 PLOT BY: MSA PLOT NAME : PLOT SCALE: 1:1 9





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Wisconsin Department of Transportation

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