Section No.

Section No.

Section No.

TOTAL SHEETS = 46

DESIGN DESIGNATION 6679-02-00

CONVENTIONAL SYMBOLS

2025 = 70

2045 = 100

= 9

= 60/40

= 25 MPH

AADT

A.A.D.T.

DESIGN SPEED

D.H.V.

PLAN

LOT LINE

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

PROPERTY LINE

D.D.

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

Plan and Profile

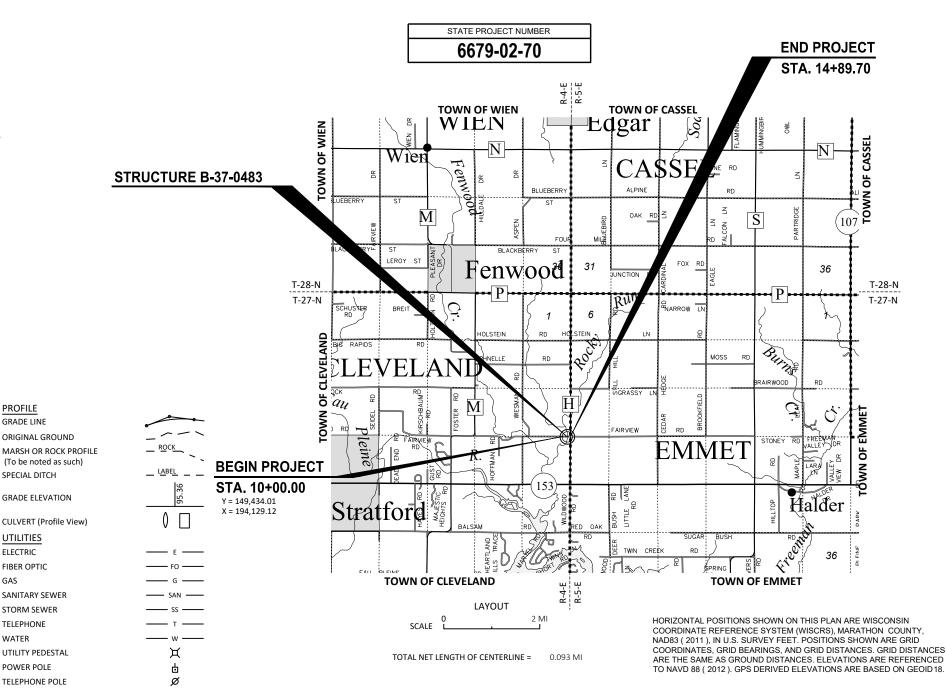
FEBRUARY 2025 STATE OF WISCONSIN ORDER OF SHEETS **DEPARTMENT OF TRANSPORTATION** Section No. Typical Sections and Details Section No. Estimate of Quantities

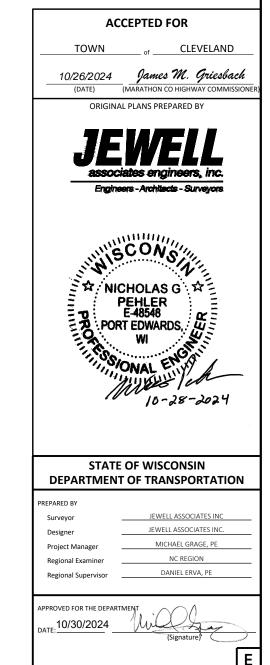
PLAN OF PROPOSED IMPROVEMENT

T CLEVELAND, FAIRVIEW ROAD

ROCKY RUN BRIDGE. B-37-0483

LOC STR MARATHON COUNTY





FEDERAL PROJECT

WISC 2025329

CONTRACT

STATE PROJECT

6679-02-70

PROFILE GRADE LINE

ORIGINAL GROUND

SPECIAL DITCH

UTILITIES

FIBER OPTIC

SANITARY SEWER

STORM SEWER

POWER POLE

TELEPHONE POLE

FLECTRIC

GRADE ELEVATION

GENERAL NOTES

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

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN INDICATED FOR REMOVAL BY THE ENGINEER IN THE FIELD

UNLESS SHOWN OTHERWISE, DISTURBED AREAS SHOWN WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS ARE TO BE FERTILIZED (TYPE B), SEEDED (USE SEED MIX NO. 20), AND E-MATTED AS DIRECTED BY THE ENGINEER, ALL POST CONSTRUCTION WET AREAS SHALL BE SEEDED WITH SEEDING MIXTURE NO. 60. DO NOT FERTILIZE WETLAND AREAS.

WHEN THE QUANTITY OF THE ITEM OF BASE AGGREGATE DENSE OR ASPHALTIC SURFACE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE BASE COURSE SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF MATERIAL AS

SILT FENCE SHALL BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER IN THE FIELD. SILT FENCE SHALL BE PLACED PRIOR TO CONSTRUCTION AND SHALL BE IN PLACE PRIOR TO STRUCTURE REMOVAL.

REMOVAL OF ASPHALTIC SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A SAW-CUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

THE LOCATION OF ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD PRIOR TO

ASPHALTIC SURFACE QUANTITIES WERE CALCULATED USING 112 LB/SY/IN.

ADD TACK COAT AT A RATE OF 0.05 GAL/SY.

WETLANDS ARE PRESENT IN THE PROJECT LIMITS. THE CONTRACTOR SHALL NOT OPERATE EQUIPMENT OR STOCKPILE MATERIALS BEYOND THE EXISTING SLOPE INTERCEPT FROM STA. 11+40 - STA. 11+93 LT, STA. 11+66

ADJUST DITCH GRADING AS NECESSARY TO FIT FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER IN THE

CONTACTS

WISCONSIN DEPT. OF TRANSPORTATION

WISDOT PROJECT MANAGER 510 HANSON LAKE RD. RHINELANDER,WI 54501 ATTN: MIKE GRAGE, P.E. PHONE: (715) 365-5705 EMAIL: MICHAEL.GRAGE@DOT.WI.GOV

TOWN OF CLEVELAND

MARATHON COUNTY HIGHWAY DEPARTMENT 1430 WEST STREET WAUSAU, WI 54401 ATTN: JAMES GRIESBACH, COMMISSIONER PHONE: (715) 261-1801 CELL: (715) 581-4756

EMAIL: JAMES.GRIESBACH@CO.MARATHON.WI.US

DESIGN CONSULTANT:

JEWELL ASSOCIATES ENGINEERS, INC. 1210 PARKWOOD DR, SUITE 100 WISCONSIN RAPIDS, WI 54494 ATTN: NICK PEHLER, P.E. PHONE: (715) 318-8565 CELL: (715) 459-5665 EMAIL: NICK.PEHLER@JEWELLASSOC.COM

DNR LIAISON:

DNR NORTHEAST REGIONAL HEADQUARTERS 2984 SHAWANO AVE. GREENBAY, WI 54313 ATTN: JAY SCHIEFELBEIN PHONE: (920) 360-3784
EMAIL: JEREMIAH.SCHIEFELBEIN@WISCONSIN.GOV

UTILITIES

ELECTRICITY

WISCONSIN PUBLIC SERVICE CORP ATTN: JESSE PATTEN P O BOX 1166 WAUSAU, WI 54402-1166 PHONE: (715) 848-7405 CELL: (715) 573-0349 EMAIL: JESSE.PATTEN@WISCONSINPUBLICSERVICE.COM



LIST OF STANDARD ABBREVIATIONS

ABUT	Abutment	INV	Invert	RDWY	Roadway
AC	Acre	IP	Iron Pipe or Pin	SALV	Salvaged
AGG	Aggregate	IRS	Iron Rod Set	SAN S	Sanitary Sewer
AH	Ahead	JT	Joint	SEC	Section
<	Angle	JCT	Junction	SHLDR	Shoulder
ASPH	Asphaltic	LHF	Left-Hand Forward	SHR	Shrinkage
AVG	Average	L	Length of Curve	SW	Sidewalk
ADT	Average Daily Traffic	LIN FT or LF	Linear Foot	S	South
BAD	Base Aggregate Dense	LC	Long Chord of Curve	SQ	Square
BK	Back	MH	Manhole	SF or SQ FT	Square Feet
BF	Back Face	MB	Mailbox	SY or SQ YD	Square Yard
BM	Bench Mark	ML or M/L	Match Line	STD	Standard
BR	Bridge	N	North	SDD	Standard Detail Drawings
C or C/L	Center Line	Y	North Grid Coordinate	STH	State Trunk Highways
CC	Center to Center	O.A.L.	Overall Length	STA	Station
CTH	County Trunk Highway	OD	Outside Diameter	SS	Storm Sewer
CR	Creek	PLE	Permanent Limited Easement	SG	Subgrade
CR	Crushed	PT	Point	SE	Superelevation
CY or CU YD	Cubic Yard	PC	Point of Curvature	SL or S/L	Survey Line
CP	Culvert Pipe	PI	Point of Intersection	SV	Septic Vent
C & G	Curb and Gutter	PRC	Point of Reverse Curvature	T	Tangent
D	Degree of Curve	PT	Point of Tangency	TEL	Telephone
DHV	Design Hour Volume	POC	Point On Curve	TEMP	Temporary
DIA	Diameter	POT	Point on Tangent	TI	Temporary Interest
E	East	PVC	Polyvinyl Chloride	TLE	Temporary Limited Easement
X	East Grid Coordinate	PCC	Portland Cement Concrete	t	Ton
ELEC	Electric (al)	LB	Pound	T or TN	Town
EL or ELEV	Elevation	PSI	Pounds Per Square Inch	TRANS	Transition
ESALS	Equivalent Single Axle Loads	PE	Private Entrance	TL or T/L	Transit Line
EBS	Excavation Below Subgrade	R	Radius	T	Trucks (percent of)
ESTR	Existing Sign to Remain	RR	Railroad	TYP	Typical
FF	Face to Face	R	Range	UNCL	Unclassified
FE	Field Entrance	RL or R/L	Reference Line	UG	Underground Cable
F	Fill	RP	Reference Point	USH	United States Highway
FG	Finished Grade	RCCP	Reinforced Concrete Culvert	VAR	Variable
FL or F/L	Flow Line		Pipe	V	Velocity or Design Speed
FT	Foot	REQ'D	Required	VERT	Vertical
FTG	Footing	RES	Residence or Residential	VC	Vertical Curve
GN	Grid North	RW	Retaining Wall	VOL	Volume
HT	Height	RT	Right	WM	Water Main
CWT	Hundredweight	RHF	Right-Hand Forward	WV	Water Valve
HYD	Hydrant	R/W	Right-of-Way	W	West
INL	Inlet	R	River	WB	Westbound
ID	Inside Diameter	RD	Road	YD	Yard
-		· -		-	

	HYDROLOGIC SOIL GROUP												
		A	A		E	3	С			D			
	9		RANGE CENT)		SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56	
MEDIAN STRIP TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40	
SIDE SLOPE TURF			.25 .32			.27 .34			.28 .36			.30 .38	
PAVEMENT													
ASPHALT						.709	95						
CONCRETE						.809	95						
BRICK						.708	30						
DRIVES, WALKS						.758	35						
ROOFS						.759	95						
GRAVEL ROADS, S	HOULD	ERS				.406	50						

TOTAL PROJECT AREA= 1.06 ACRES

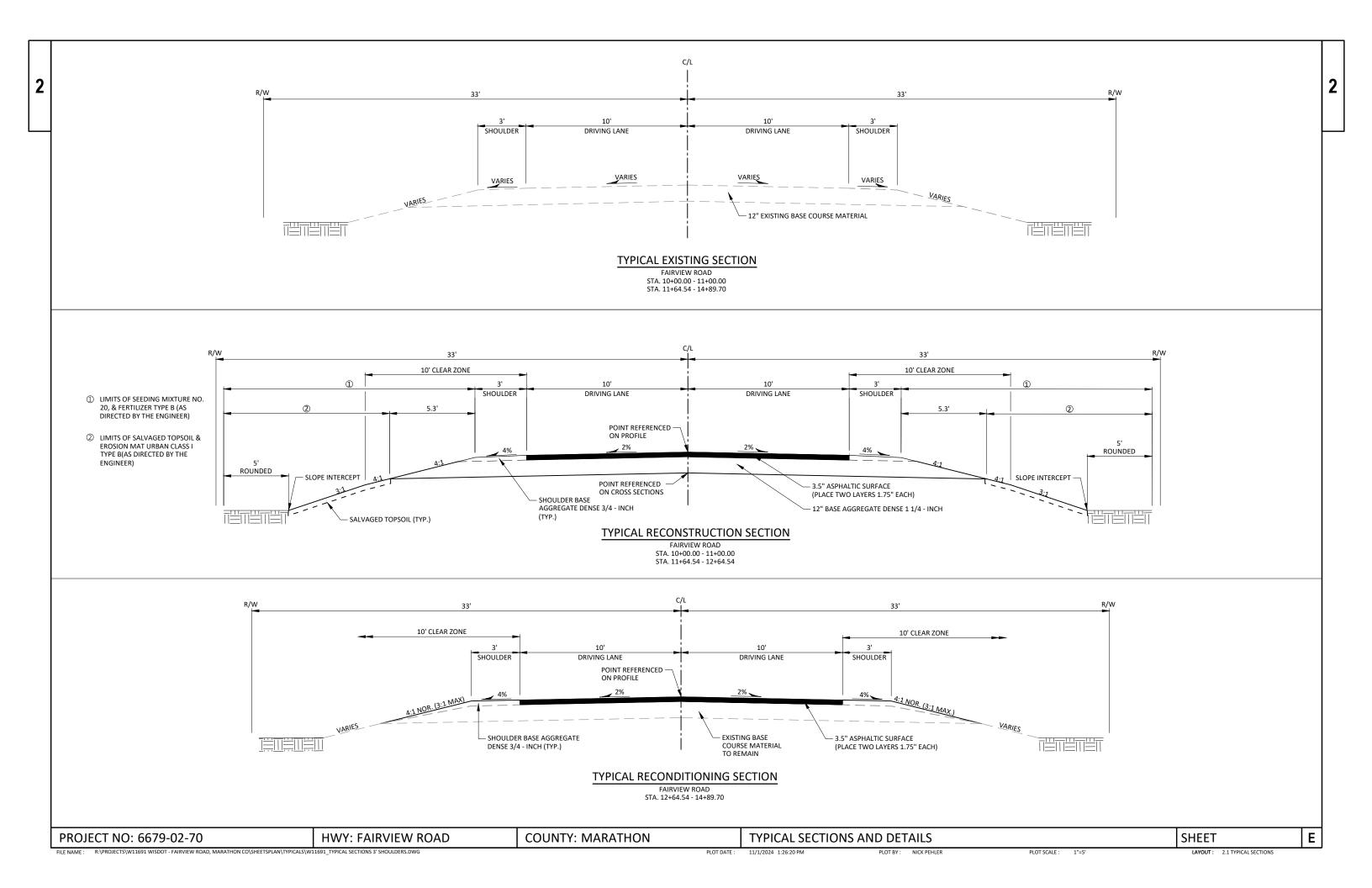
PLOT BY: NICK PEHLER

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.14 ACRES

PROJECT NO: 6679-02-70 **COUNTY: MARATHON HWY: FAIRVIEW ROAD** GENERAL NOTES, UTILITIES, CONTACTS, & ABBREVIATIONS

SHEET

Ε



2

STA. 14+89.70—
SAWING EXISTING
PAVEMENT REQ'D.

EXISTING ASPHALT
TO REMAIN

100' TRANSITION

3.5 "ASPHALTIC SURFACE
EXISTING BASE
TO REMAIN

PROFILE TRANSITION. BLADE BASE MATERIAL AWAY TO CREATE TRANSITION

REMOVE ASPHALTIC SURFACE

REMOVING ASPHALTIC SURFACE

STA. 14+89.70

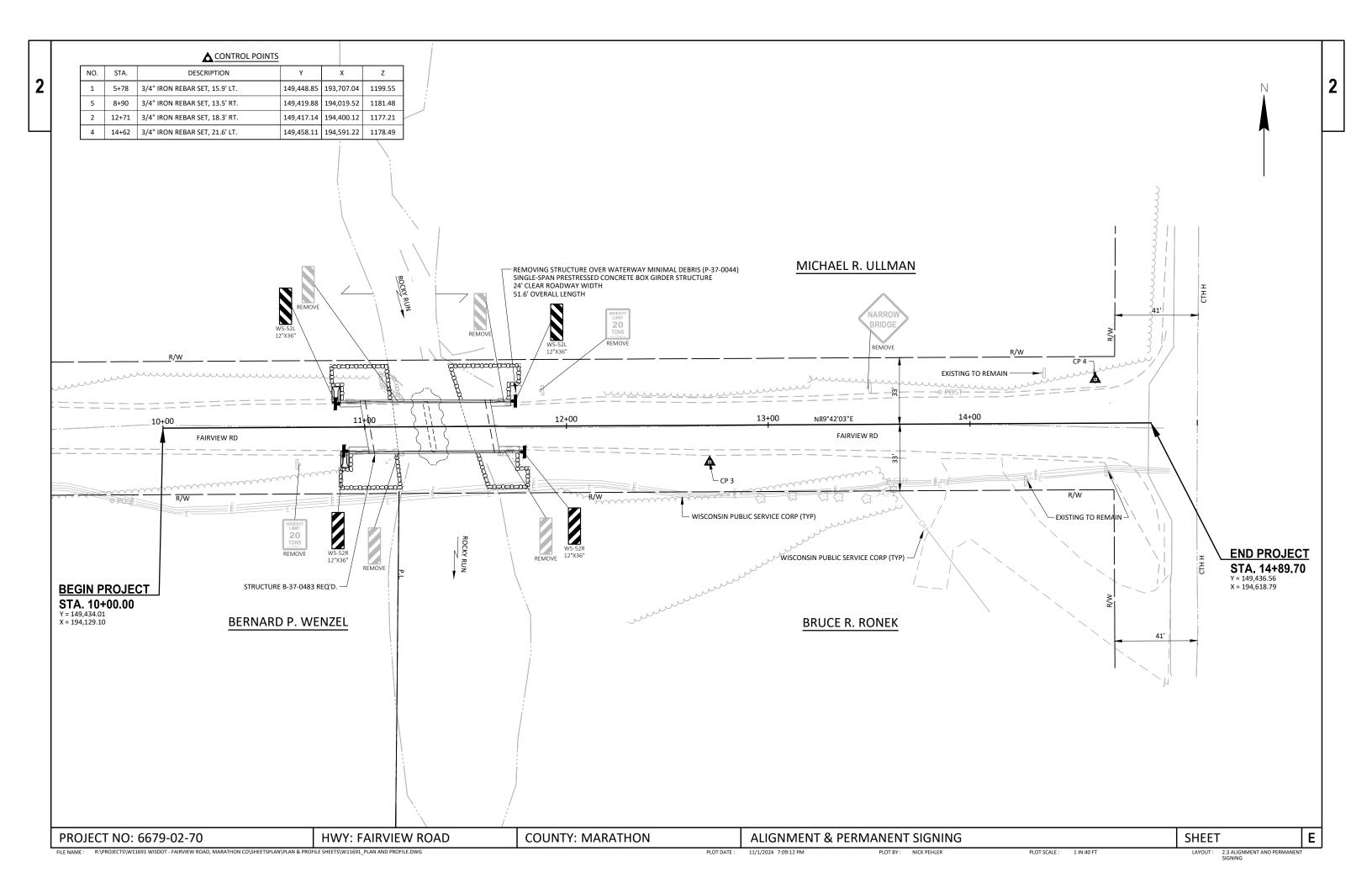
C/L FAIRVIEW ROAD	
EDGE OF PAVEMENT	EDGE OF SHOULDER BASE AGG. 3/4-INCH*
	EXISTING BASE COURSE ASPHALTIC SURFACE

PLAN VIEW

*NOTE: TAPER BASE AGGREGATE DENSE 3/4-INCH TO CREATE A SMOOTH PROFILE TRANSITION FROM THE EDGE OF ASPHALT TO THE EXISTING DRIVEWAY.

RURAL DRIVEWAY INTERSECTION DETAIL

PROJECT NO: 6679-02-70 HWY: FAIRVIEW ROAD COUNTY: MARATHON CONSTRUCTION DETAILS SHEET **E**



66		

					6679-02-70	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0205	Grubbing	STA	3.000	3.000	
0004	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-37-0044	EACH	1.000	1.000	
0006	204.0110	Removing Asphaltic Surface	SY	6.000	6.000	
8000	205.0100	Excavation Common	CY	420.000	420.000	
0010	206.1001	Excavation for Structures Bridges (structure) 01. B-37-0483	EACH	1.000	1.000	
0012	206.5001	Cofferdams (structure) 01. B-37-0483	EACH	1.000	1.000	
0014	210.1500	Backfill Structure Type A	TON	190.000	190.000	
0016	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 6679-02-70	EACH	1.000	1.000	
0018	213.0100	Finishing Roadway (project) 01. 6679-02-70	EACH	1.000	1.000	
0020	305.0110	Base Aggregate Dense 3/4-Inch	TON	100.000	100.000	
0022	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	550.000	550.000	
0024	455.0600	Tack Coat	TON	60.000	60.000	
0026	465.0105	Asphaltic Surface	TON	205.000	205.000	
0028	465.0315	Asphaltic Flumes	SY	8.000	8.000	
0030	502.0100	Concrete Masonry Bridges	CY	214.000	214.000	
0032	502.3200	Protective Surface Treatment	SY	190.000	190.000	
0034	502.3210	Pigmented Surface Sealer	SY	85.000	85.000	
0036	502.9000.S	Underwater Substructure Inspection (structure) 01. B-37-0483	EACH	1.000	1.000	
0038	505.0400	Bar Steel Reinforcement HS Structures	LB	4,830.000	4,830.000	
0040	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	26,770.000	26,770.000	
0042	516.0500	Rubberized Membrane Waterproofing	SY	10.000	10.000	
0044	550.0500	Pile Points	EACH	13.000	13.000	
0046	550.1120	Piling Steel HP 12-Inch X 53 Lb	LF	325.000	325.000	
0048	606.0300	Riprap Heavy	CY	250.000	250.000	
0050	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	150.000	150.000	
0052	618.0100	Maintenance and Repair of Haul Roads (project) 01. 6679-02-70	EACH	1.000	1.000	
0054	619.1000	Mobilization	EACH	1.000	1.000	
0056	624.0100	Water	MGAL	10.000	10.000	
0058	625.0500	Salvaged Topsoil	SY	590.000	590.000	
0060	628.1504	Silt Fence	LF	635.000	635.000	
0062	628.1520	Silt Fence Maintenance	LF	1,270.000	1,270.000	
0064	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000	
0066	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000	
0068	628.2008	Erosion Mat Urban Class I Type B	SY	590.000	590.000	
0070	628.6005	Turbidity Barriers	SY	240.000	240.000	
0072	629.0210	Fertilizer Type B	CWT	1.000	1.000	
0074	630.0120	Seeding Mixture No. 20	LB	40.000	40.000	
0076	630.0500	Seed Water	MGAL	18.000	18.000	
0078	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0800	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0082	638.2602	Removing Signs Type II	EACH	7.000	7.000	
0084	638.3000	Removing Small Sign Supports	EACH	7.000	7.000	
0086	642.5001	Field Office Type B	EACH	1.000	1.000	
0088	643.0420	Traffic Control Barricades Type III	DAY	1,376.000	1,376.000	
0090	643.0705	Traffic Control Warning Lights Type A	DAY	2,064.000	2,064.000	
0092	643.0900	Traffic Control Signs	DAY	1,032.000	1,032.000	
0094	643.5000	Traffic Control	EACH	1.000	1.000	
0096	645.0111	Geotextile Type DF Schedule A	SY	40.000	40.000	
0098	645.0120	Geotextile Type HR	SY	420.000	420.000	
-		71			-	

12/13/2024 12:59:43

Estimate Of Quantities		Page	2

 79-	ഹ	70

Line	Item	Item Description	Unit	Total	Qty
0100	650.4500	Construction Staking Subgrade	LF	200.000	200.000
102	650.5000	Construction Staking Base	LF	200.000	200.000
0104	650.6501	Construction Staking Structure Layout (structure) 01. B-37-0483	EACH	1.000	1.000
0106	650.8000	Construction Staking Resurfacing Reference	LF	225.000	225.000
0108	650.9911	Construction Staking Supplemental Control (project) 01. 6679-02-70	EACH	1.000	1.000
0110	650.9920	Construction Staking Slope Stakes	LF	200.000	200.000
0112	690.0150	Sawing Asphalt	LF	50.000	50.000
0114	715.0502	Incentive Strength Concrete Structures	DOL	1.000	1.000
0116	999.2005.S	Maintaining Bird Deterrent System (station) 01. 11+32	EACH	1.000	1.000
0118	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0120	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000

						EARTUMA	RKSUMMARY	ALL ITEMS ARE 010	UNLESS OTHERWISE NOTED
	GRUBBING	REMOVING ASPH	IALTIC SURFACE			205.0100	VK SOIMIMAK I	EXPANDED FILL	MASS
	201.0205 GRUBBING STATION-STATION LOCATION (STA)		204.0110 REMOVING ASPHALTIC SURFACE CATEGORY			EXCAVATION COMMON CUT OCATION (CY) MAINLINE 283	MATERIAL		DRDINATE +/- (CY) (3) 172
4	10+00 - 12+65 MAINLINE 3	STATION-STATION LOCATI	030		11+90 - 12+65	MAINLINE 137	137	71 89	48
	TOTAL = 3 NOTE: ROADSIDE BRUSH IS TO BE GRUBBED PRIOR TO FILL	14+89 - 14+89.7 MAINLI			TOTALS = NOTES:	420	420	160 200	220
3		TOTALS	S = 6		3.) THE MASS ORDINAT	AL=CUI CTOR 1.25: EXPANDED FILL = (UNE) FE + OR - QTY CALCULATED FOR TH THE CATEGORY. MINUS INDICATES	HE DIVISION. PLUS QUA		
	BASE AGGREGATE DENSE			ASPHALTIC 211.0101	SURFACE				
	305.0110 BASE AGGREGATE DENSE 3/4-INCH CATEGORY CATEGORY	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH CATEGORY	F	PREPARE FOUNDATION FOR ASPHALTIC PAVING PROJECT (6679-02-70) CATEGORY		465.0105 ASPHALTIC SURFACE GORY CATEGORY CATEGORY	,	ASPHALTIC TATION LOCATION	465.0315 ASPHALTIC FLUMES
	STATION - STATION LOCATION (TON) (TON) 10+00 - 11+00 MAINLINE 16 -	010 (TON) 275	ATION - STATION LOCATION 10+00 - 11+00 MAINLINE	030 (EACH)	010 03 (GAL) (GA 14 -	0 010 030 (L) (TON) (TON)		10+86 MAINLINE, L 10+90 MAINLINE, F	_T
	11+65 - 12+65 MAINLINE 16 - 12+65 - 14+89.7 MAINLINE - 68 SUBTOTALS = 32 68	275	11+65 - 12+65 MAINLINE 12+65 - 14+60 MAINLINE 14+60 - 14+89.7 MAINLINE	- - -	14 - 26 - 6	48 - 90		TOTALS =	= 8
	TOTALS = 100	550	SUBTOTALS =	<u>-</u> 1	28 32	96 109	_		
			TOTALS =	1	60	205			
	WATER		FINIS	HING ITEMS				SILT FENCE	
	624.0100 <u>WATER</u> CATEGORY CATEGORY		625.050 SALVAG TOPSO	ED EROSION MAT IL URBAN CLASS 1	629.0210 630.0120 FERTILIZER SEEDING TYPE B MIXTURE	SEED			1.1504 628.1520 FENCE SILT FENCE MAINTENANCE
	STATION - STATION LOCATION (MGAL) (MGAL) 10+00 - 11+00 MAINLINE 4.5 -	STATION - STAT		TYPE B (SY) 156	(CWT) NO. 20 (LB) 10	(MGAL)5	STATION - STATION 10+00 - 11+00		LF) (LF) (LF) (334
	11+65 - 12+65 MAINLINE 4.5 - 12+65 - 14+89.7 MAINLINE - 1	10+00 - 11+00 11+65 - 12+69	MAINLINE, LT. 150	150 140	0.3 10 0.2 10	4.5	10+00 - 11+00 11+65 - 12+65	MAINLINE, RT. 1	159 318 138 276 171 342
	SUBTOTALS = 9 1	11+65 - 12+69	5 MAINLINE, LT. 144	144	0.2 10	4.5	11+65 - 12+65		342
	TOTALS = 10		TOTALS 590	590	1 40	18			
						PERMANE	ENT SIGNING		
							POS	STS SIGNS R	638.2602 638.3000 EMOVING REMOVING SIGNS SMALL SIGN
	MOBILIZATION EROSION CONTROL	TURBIC	DITY BARRIER	APPRO STATIO 10+68	N LOCATION C	SIGN CODE SIGN DESCRIPTION R12-1 WEIGHT LIMIT 20 TONS			TYPE II SUPPORTS (EACH) (EACH) 1 1
	628.1905 628.1910 MOBILIZATION MOBILIZATION EMERGENC EROSION CONTROL EROSION CONTROL	LOCATIO		10+88 10+92	MAINLINE, LT. W	/5-52L BRIDGE HASH MARKS /5-52R BRIDGE HASH MARKS	12X36 12X36	1 3.00 1 3.00	
	PROJECT (EACH) (EACH) 6679-02-70 5 3	WEST BA		11+16 11+16	MAINLINE, LT. W MAINLINE, RT. W	/5-52L BRIDGE HASH MARKS /5-52R BRIDGE HASH MARKS	12X36 12X36	 	1 1 1 1
	TOTALS = 5 3	то	TALS = 240	11+69 11+72	MAINLINE, RT. W	/5-52L BRIDGE HASH MARKS /5-52R BRIDGE HASH MARKS /5-52L BRIDGE HASH MARKS	12X36 12X36 12X36	 1 3.00	1 1 1
				11+76	MAINLINE, RT. W	75-52R BRIDGE HASH MARKS R12-1 WEIGHT LIMIT 20 TONS	12X36 12X36 24X30	1 3.00	- - 1 1
				13+50		W5-2 NARROW BRIDGE	36X36		1 1
							TOTALS =	4 12.00	7 7
ᆫ		AIRVIEW ROAD (COUNTY: MARATHON		ISCELLANEOUS Q			9	SHEET E
	ILE NAME : R:\PROJECTS\W11691 WISDOT - FAIRVIEW ROAD, MARATHON CO\SHEETSPLAN\W11691_MISC QTYS.DWG			PLOT DATE : 11/1/2	024 7:12:01 PM	PLOT BY: NICK PEHLER	PLOT SCALE : N/A		LAYOUT: 3.0 MISCELLANEOUS QUANTITIES

	ITFMS.	ARF 010	LIMITESS	OTHERWISE N	IOTED
AII	IILIVIS	ANI UIU	UINI I .3.3	()	

TRAFFIC CONTROL

LOCATION FAIRVIEW RD	643.0420 BARRICADES TYPE III (DAY)	643.0705 WARNING LIGHTS TYPE A (DAY)	643.0900 SIGNS (DAY)	643.5000 TRAFFIC CONTROL (EACH) 1	COMMENT
		FAIRVIEW RD	& MANIESMANIE	? ∩*	
FAIRVIEW RD, RT.	86	172	86	(D	(1) R11-3C
•	00	172		-	` ,
FAIRVIEW RD, LT.	-	-	86	-	(1) W20-3A
FAIRVIEW RD, LT.	86	172	86	-	(1) R11-3C
		FAIRVIEW RD WES	ST SIDE OF B	PIDGE*	
FAIRVIEW RD	602	860	344	MDGL	(1 EA) W20 20 W20 2D 8 (2) B11 2B
FAIRVIEW RD	602	860	344	-	(1 EA) W20-3C, W20-3D, & (2) R11-2B
		FAIRVIEW RD EAS	ST SIDE OF BE	RIDGE*	
FAIRVIEW RD	430	516	86	-	(1 EA) R11-2 & R11-2B
		E A I D) ((E) A (DD 0 07111#		
			RD & CTH H*		= =
FAIRVIEW RD	172	344	86	-	(1) R11-2B
		EAID\	OT 01DE 05 0		
		FAIRVIEW RD EAS		IHH**	
FAIRVIEW RD	-		86	-	(1) W20-3A
		CTH H NORTH AND SO	NITH OF EAID	V/IE/W/ BD**	
OTILLI	•	TILLUNOK LE AND 20		VIEVV RD	(2) \4(20, 24
CTHH	-	-	172	-	(2) W20-3A
TOTALS =	1,376	2,064	1,032	1	

NOTE:

CONSTRUCTION STAKING

						650.9911	
				650.6501	650.8000	SUPPLEMENTAL	650.9920
		650.4500	650.5000	STRUCTURE	RESURFACING	CONTROL	SLOPES
		SUBGRADE	BASE	LAYOUT (B-37-0483)	REFERENCE	(6679-02-00)	STAKES
		CATEGORY	CATEGORY	CATEGORY	CATEGORY	CATEGORY	CATEGORY
		010	010	020	030	010	010
STATION -STATION	LOCATION	(LF)	(LF)	(EACH)	(LF)	(EACH)	(LF)
10+00 - 11+65	MAINLINE	100	100	-	-	-	100
11+65 - 12+65	MAINLINE	100	100	-	-	-	100
12+65 - 14+89.7	MAINLINE	-	-	-	225	-	-
6679-02-00	PROJECT	-	-	1	-	1	-
	TOTAL =	200	200	1	225	1	200

SAWING ASPHALT

		690.0130
		CATEGORY 030
STATION	LOCATION	(LF)
14+89.7	MAINLINE	50
	TOTAL =	50

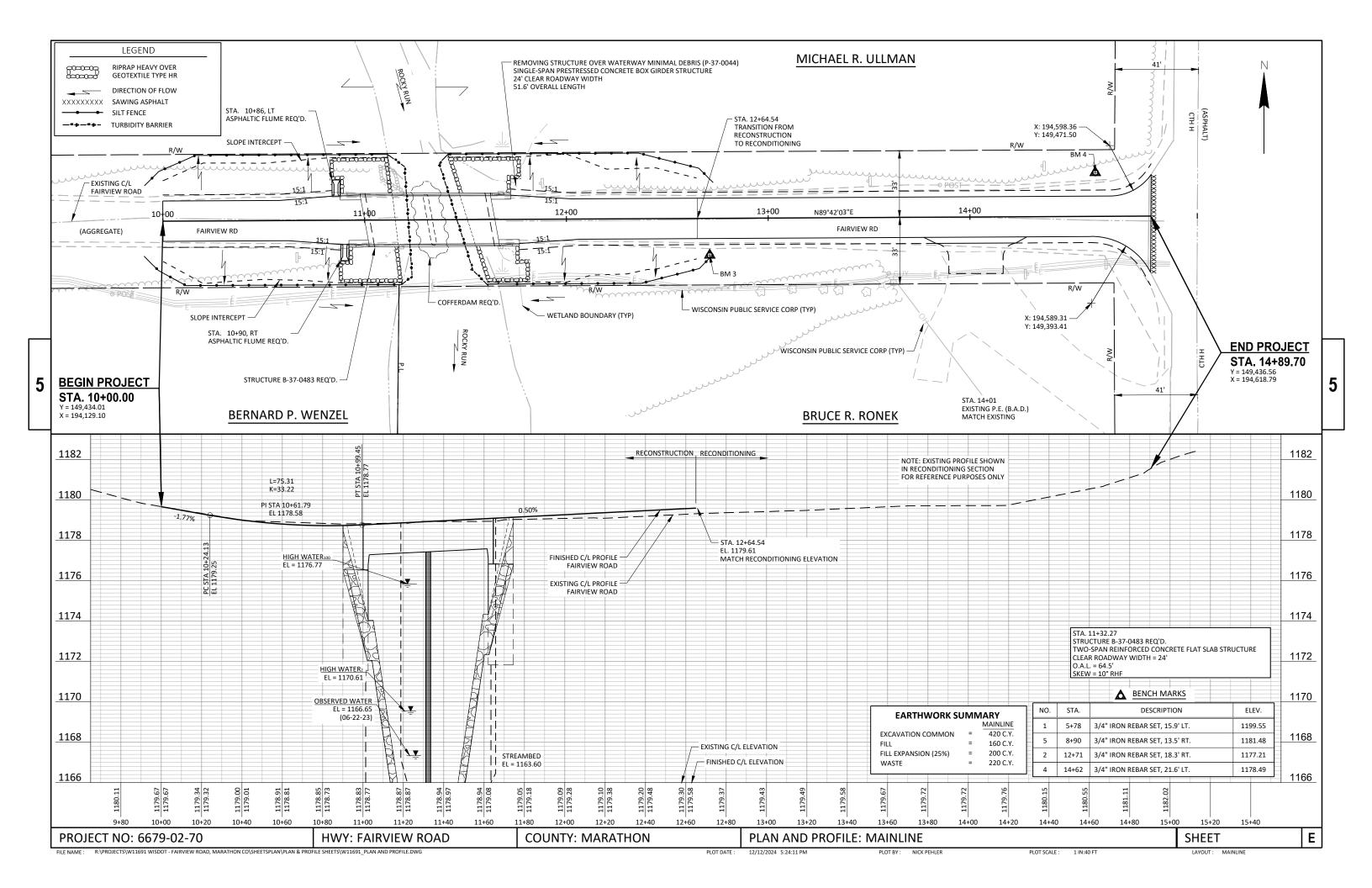
COUNTY: MARATHON PROJECT NO: 6679-02-70 HWY: FAIRVIEW ROAD MISCELLANEOUS QUANTITIES

SHEET

E

^{*}FOLLOW STANDARD DETAIL DRAWING FOR BARRICADES AND SIGNS FOR MAINLINE CLOSURES.

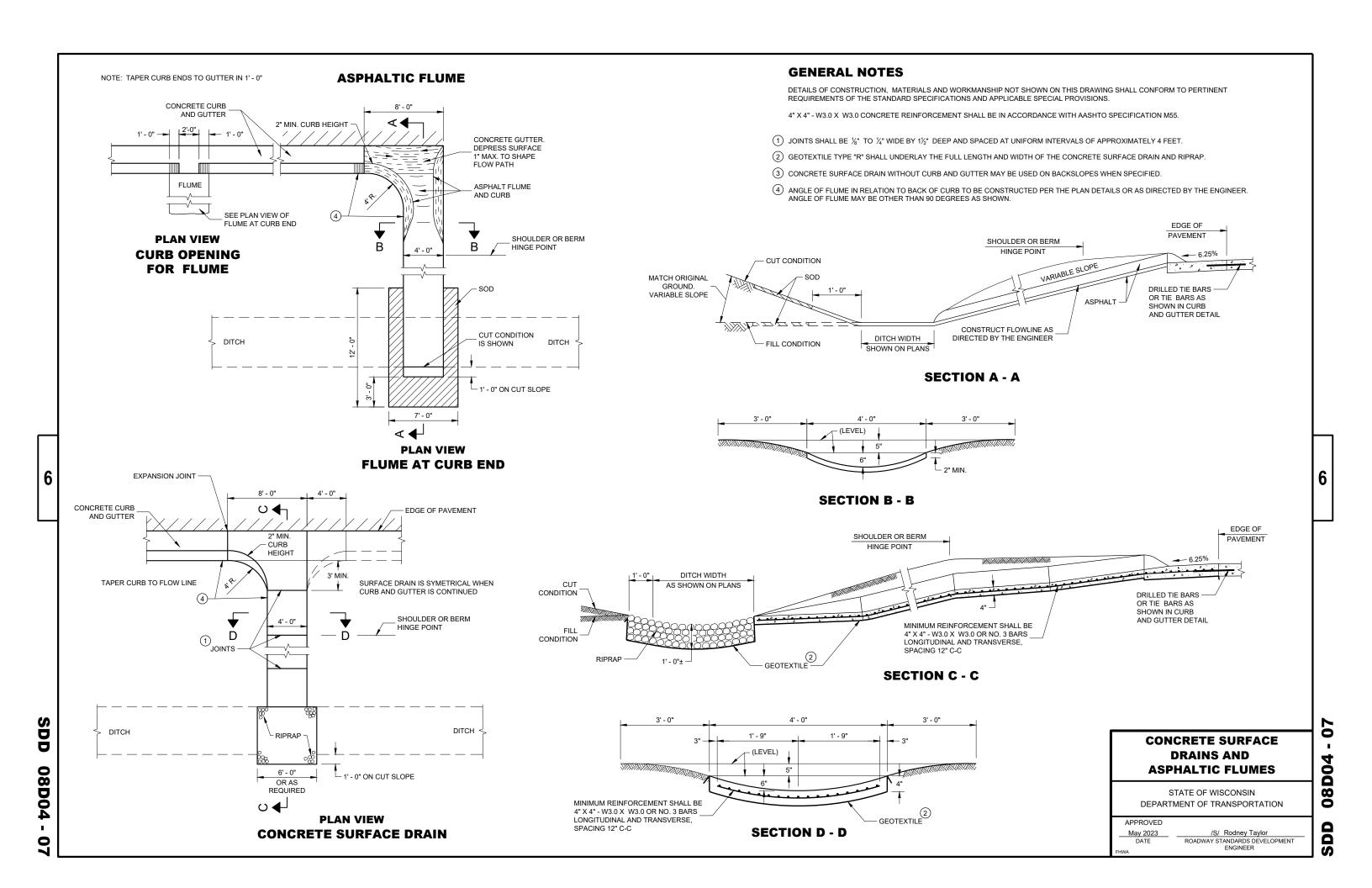
^{**}FOLLOW STANDARD DETAIL DRAWING FOR BARRICADES AND SIGNS FOR SIDEROAD CLOSURES.



Standard Detail Drawing List

08D04-07	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
13C19-03	HMA LONGITUDINAL JOINTS
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15С02-09В	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15С11-10в	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

6



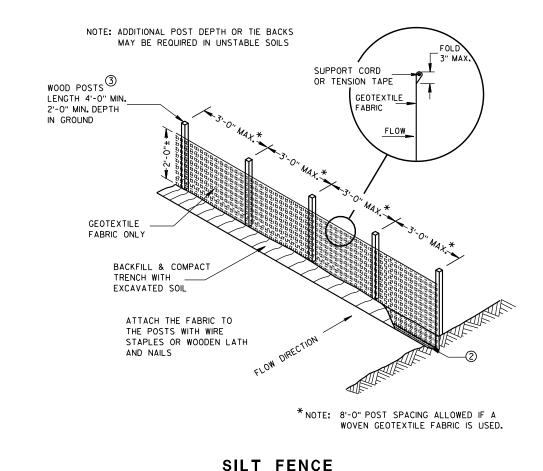
TYPICAL APPLICATION OF SILT FENCE

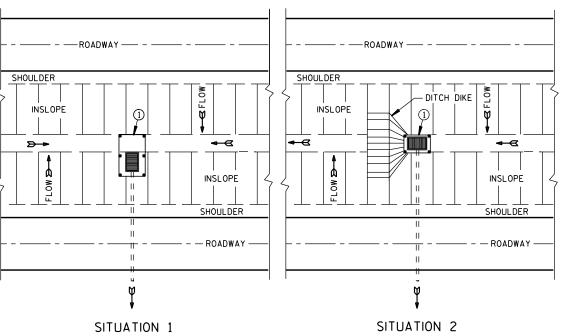
6

b

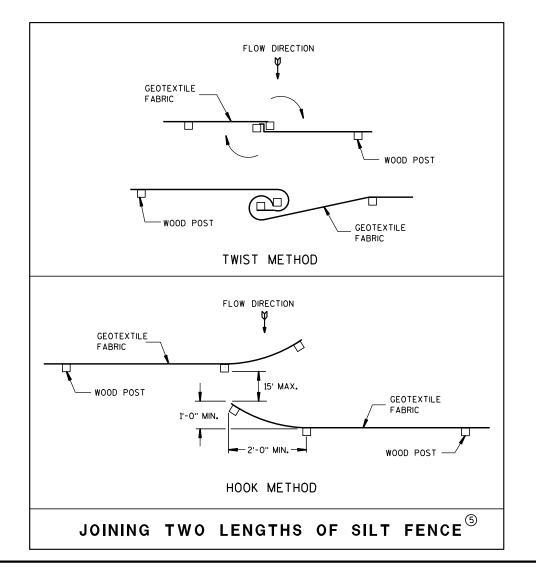
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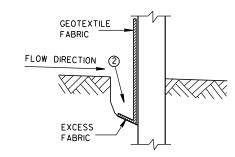
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



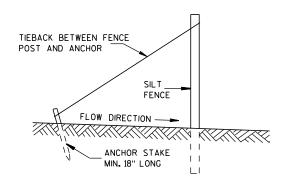
GENERAL NOTES

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.

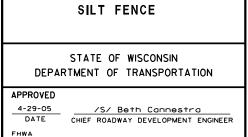


TRENCH DETAIL



SILT FENCE TIE BACK

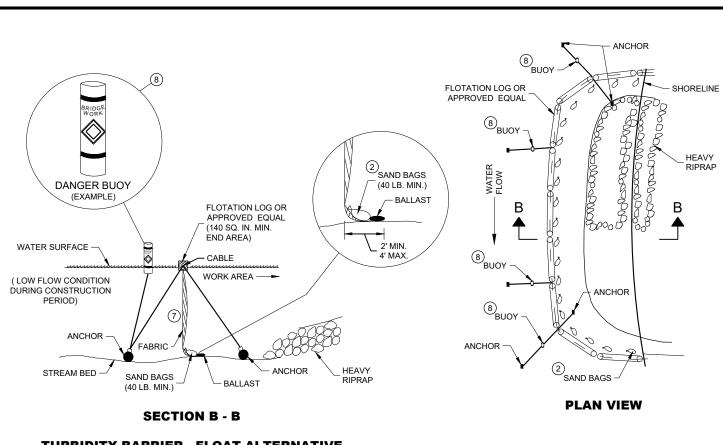
(WHEN REQUIRED BY THE ENGINEER)



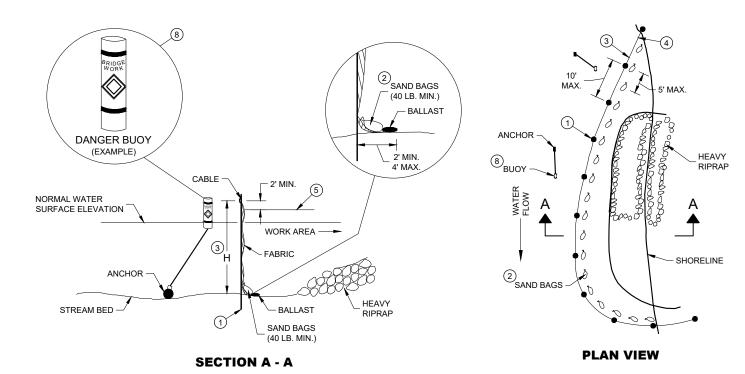
6

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D.D. 8 E 9-6



TURBIDITY BARRIER - FLOAT ALTERNATIVE CAUTION - SEE NOTE 6



TURBIDITY BARRIER - STANDARD POST INSTALLATION

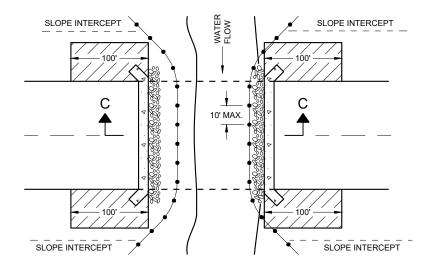
TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

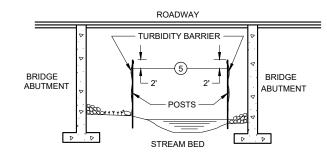
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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
- (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
- (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

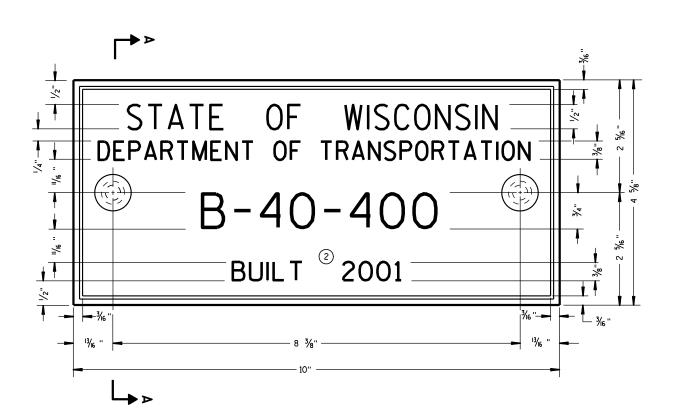
TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ∞

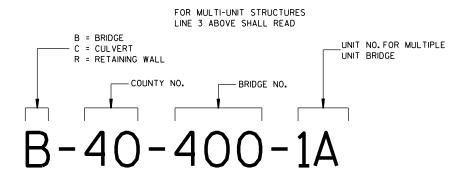
APPROVED /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT
ENGINEER 6/4/02 DATE





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



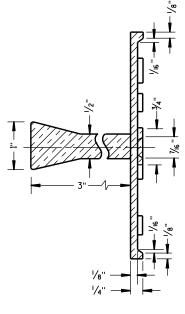
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

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.

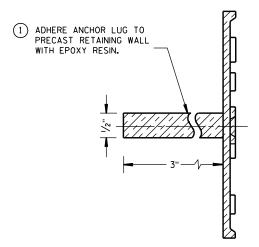
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

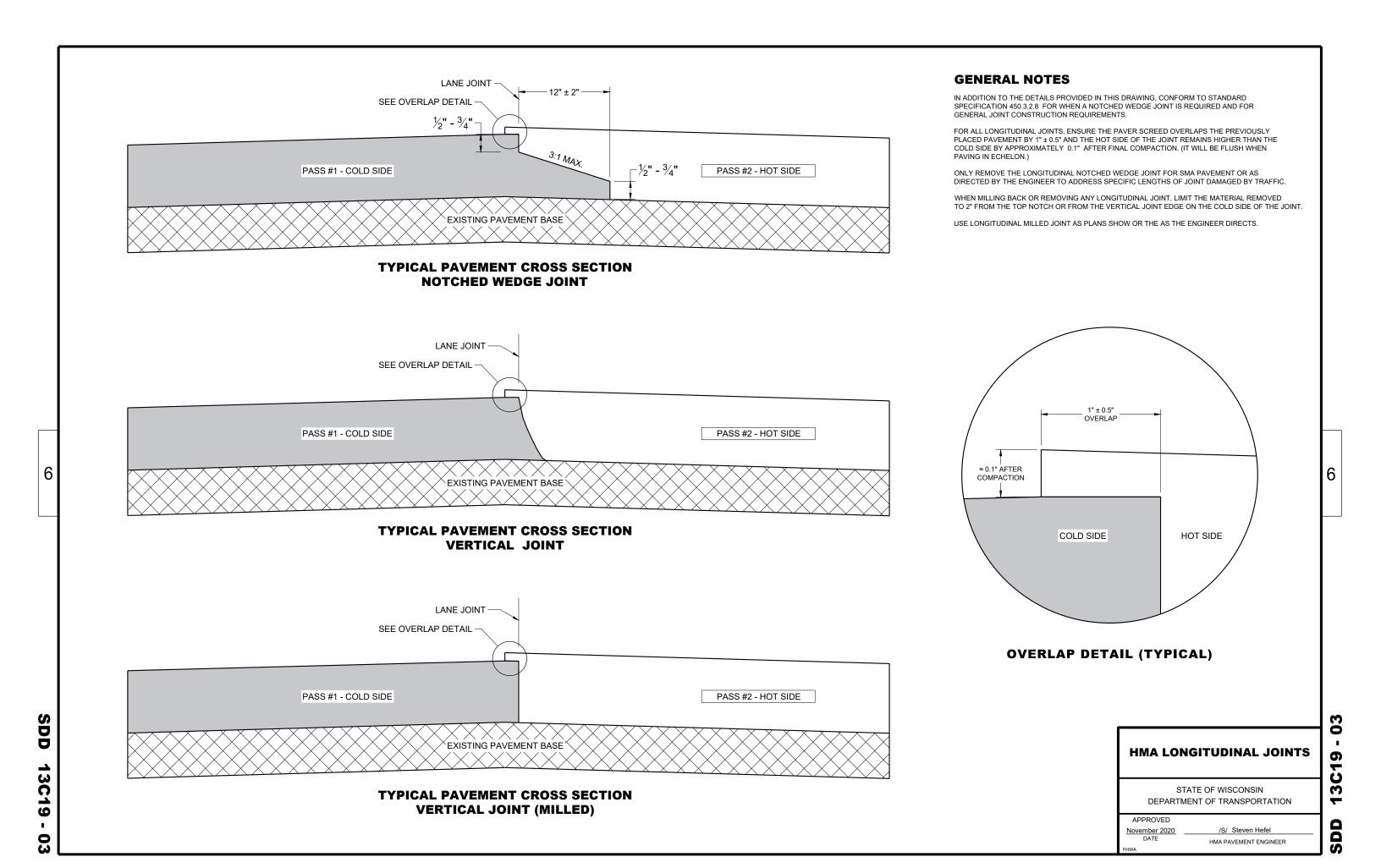
APPROVED

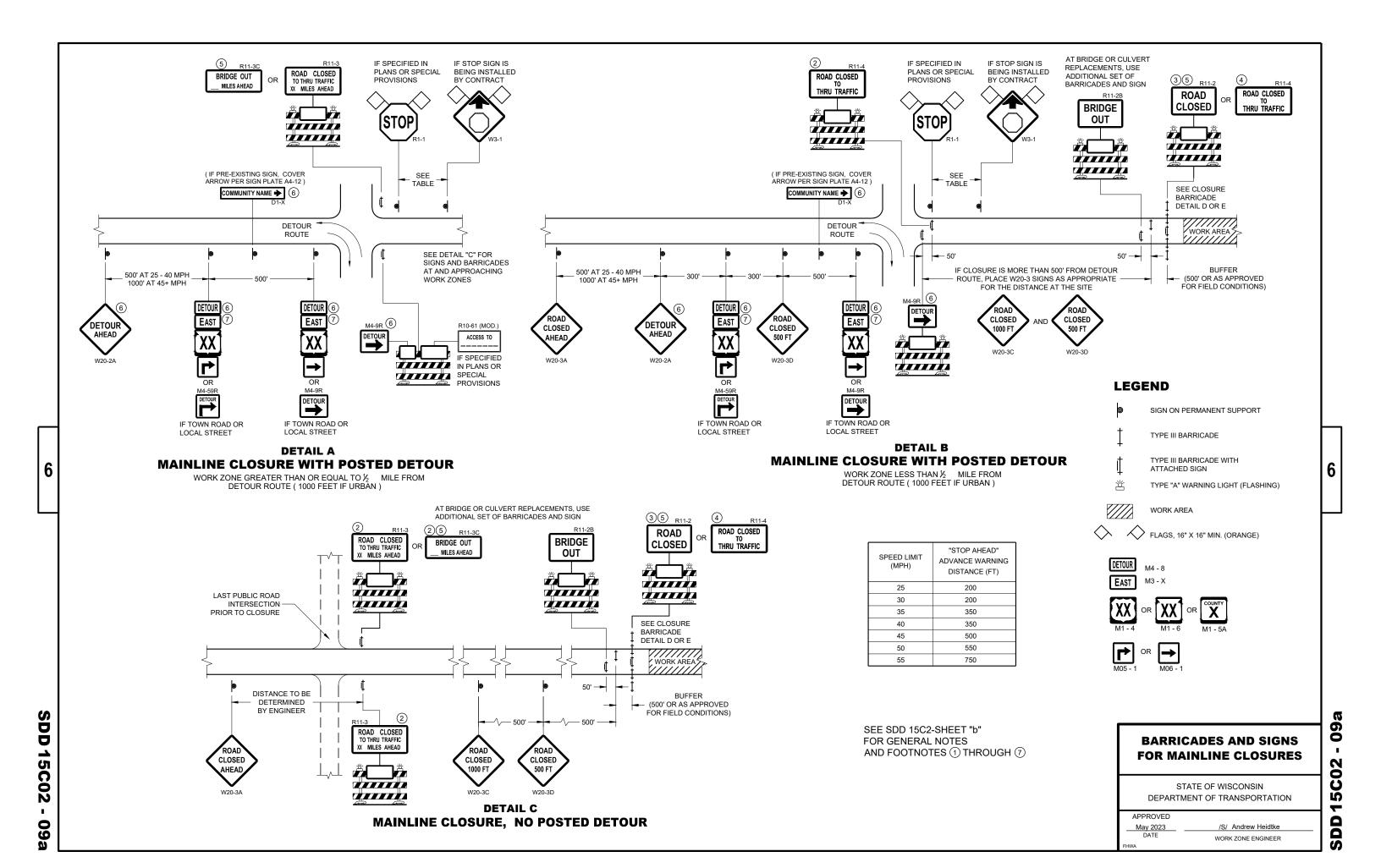
3/26/IO /S/ Scot Becker

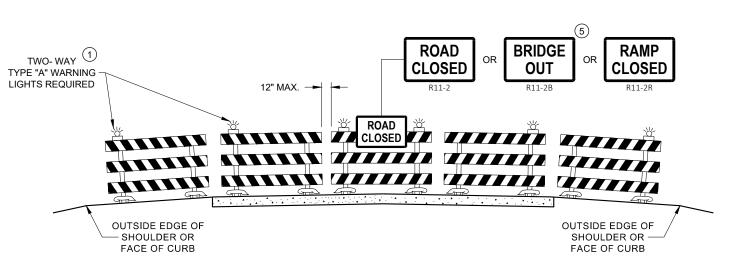
DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

.D.D. 12 A

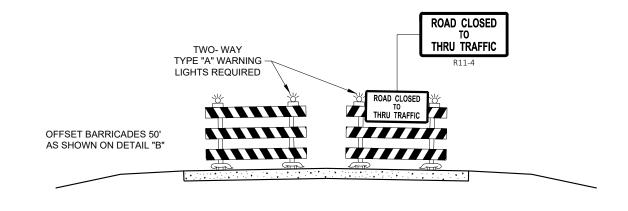
3-10







DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL **APPROACH VIEW**

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

R11 - 2 SHALL BE 48" X 30"

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

M4 - 9 SHALL BE 30" X 24"

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

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

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

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS) D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

R1 - 1 SHALL BE 36" X 36"

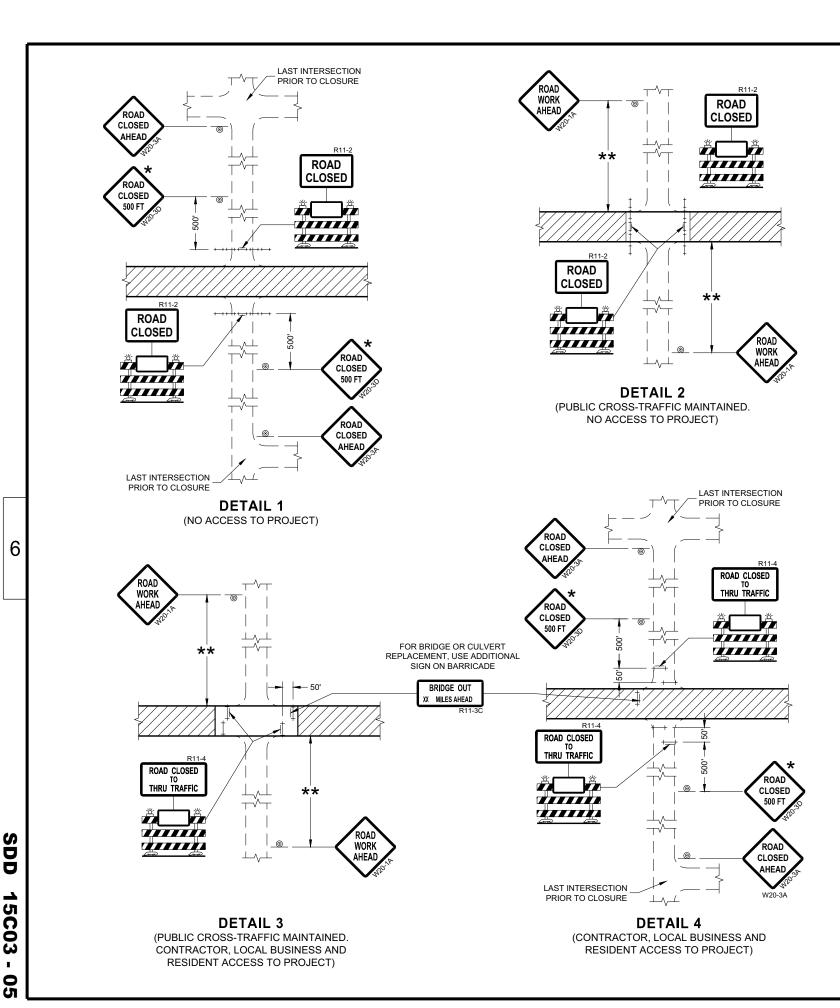
- TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT **SPACING**
- THESE SIGNS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

BARRICADES AND SIGNS FOR **VARIOUS CLOSURES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE WORK ZONE ENGINEER

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GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

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

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

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

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

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW: R11-2 SHALL BE 48" X 30". R11-4 AND R11-3 SHALL BE 60" X 30".

- ★ OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.
- ** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

LEGEND

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

TYPE "A" WARNING LIGHT (FLASHING)

WORK AREA

BARRICADES AND SIGNS FOR **SIDEROAD CLOSURES**

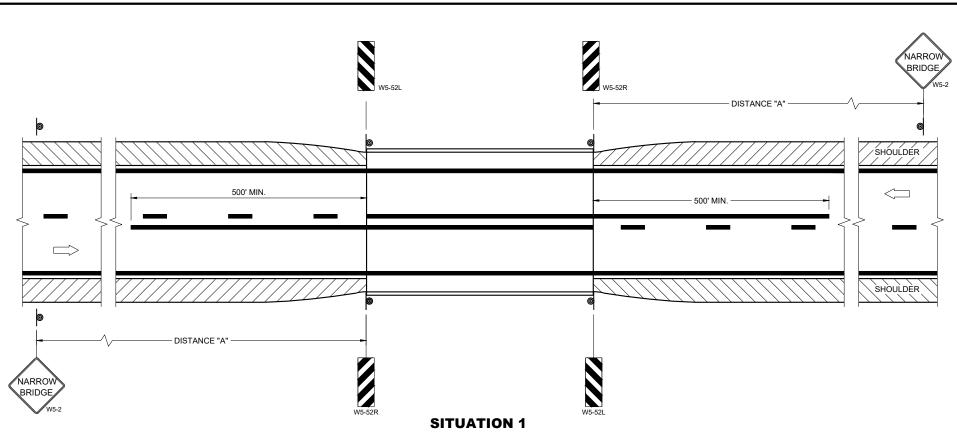
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED July 2018
DATE /S/ Andrew Heidtke WORK ZONE ENGINEER ŭ

S



SDD 15C06-12



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

OR SHOULDER SHOULDER WS-52R WS-52L

SITUATION 2

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

SDD

15C06-12

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

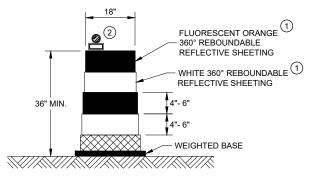
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

SDD 15C11

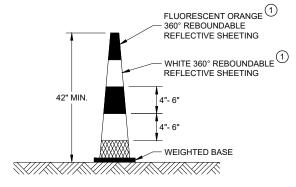
GENERAL NOTES

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



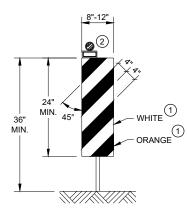
DRUM

BALLAST WIDTHS RANGE FROM 24"-36"



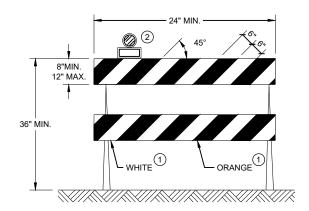
42" CONE

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



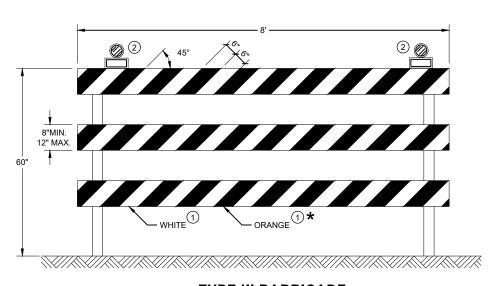
VERTICAL PANEL

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



TYPE II BARRICADE

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



TYPE III BARRICADE

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

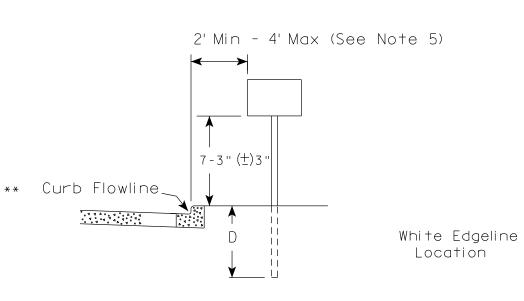
* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

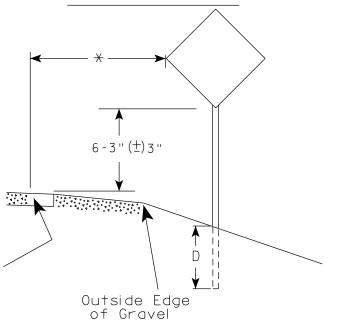
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 15C

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





RURAL AREA (See Note 2)



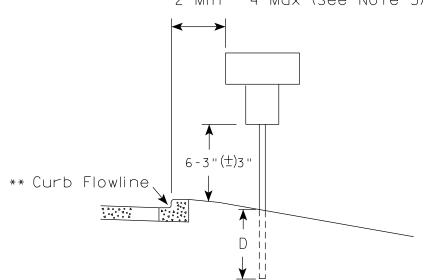
GENERAL NOTES

- 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

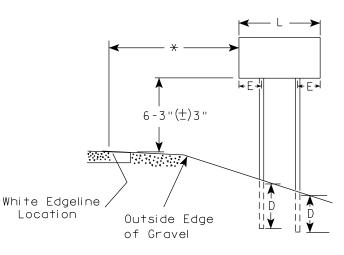
PLOT NAME :

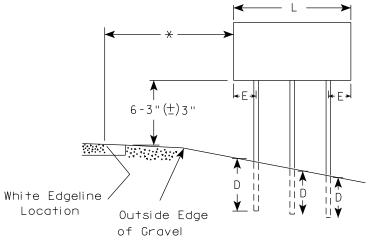
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

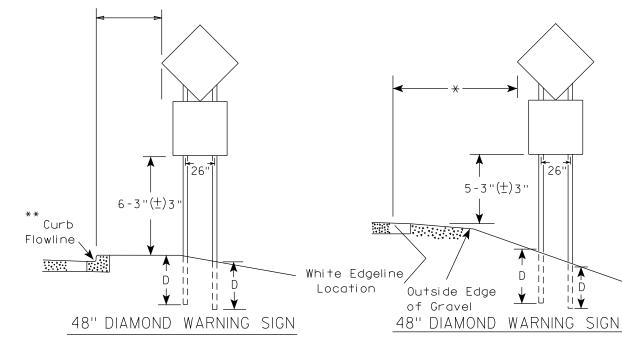
APPROVED

WISDOT/CADDS SHEET 42





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



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

HWY:

SIGN SHAPE OTHER THAN	DIAMOND
(THREE POSTS REQUIR	RED)
L	Е
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:

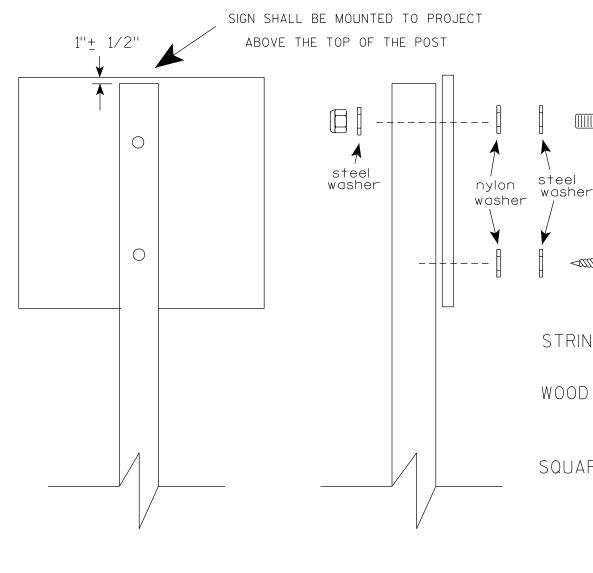
COUNTY:

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

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

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

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

PROJECT NO:



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

DATE 2/05/15

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

For State Traffic Engineer



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:

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

Manher R

APPROVED

DATE 4/19/2022 PLATE NO. A5-10.3

SHEET NO:

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

PROJECT NO:

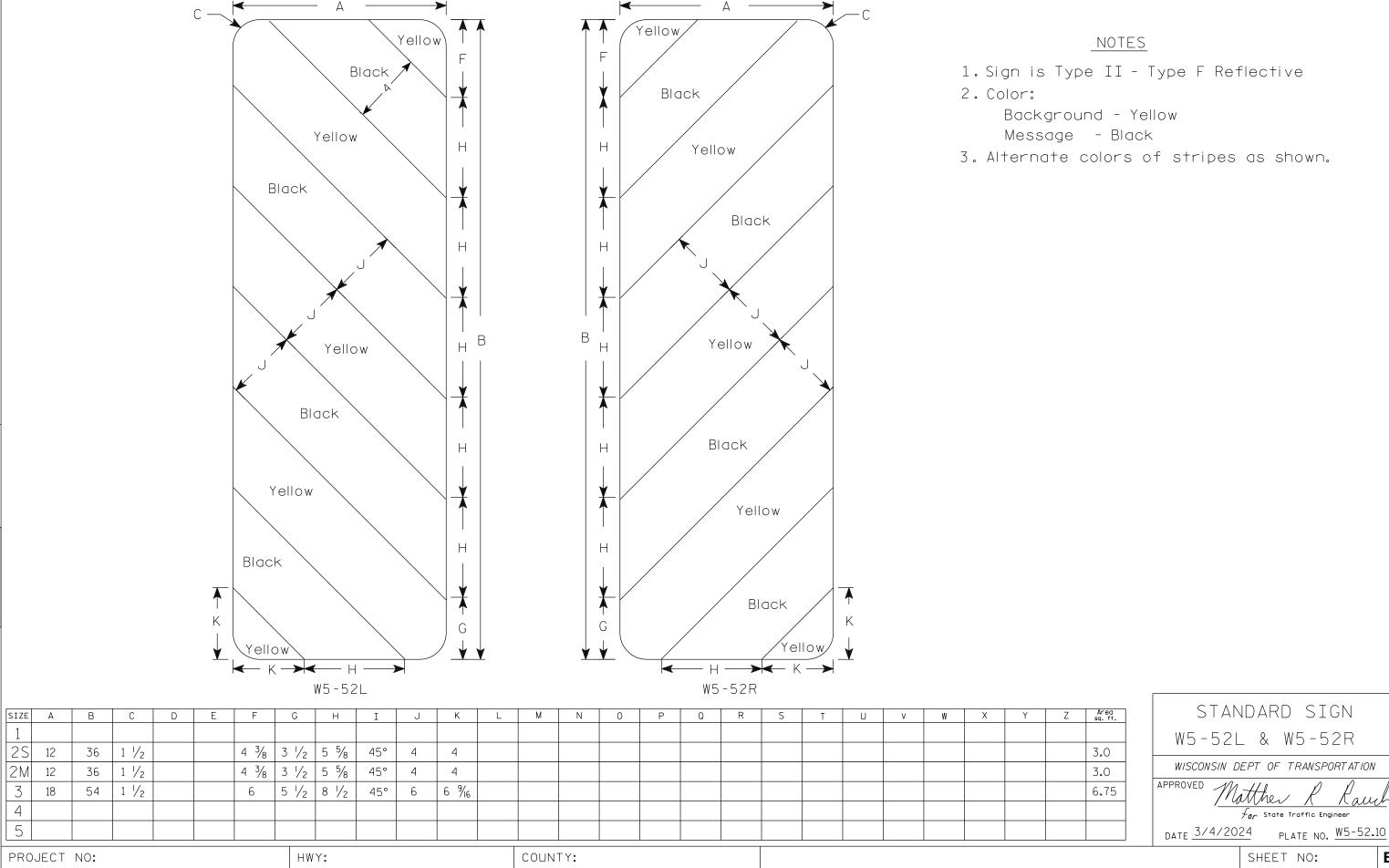
PLOT DATE: 19-APRIL 2022 11:55

SIGN

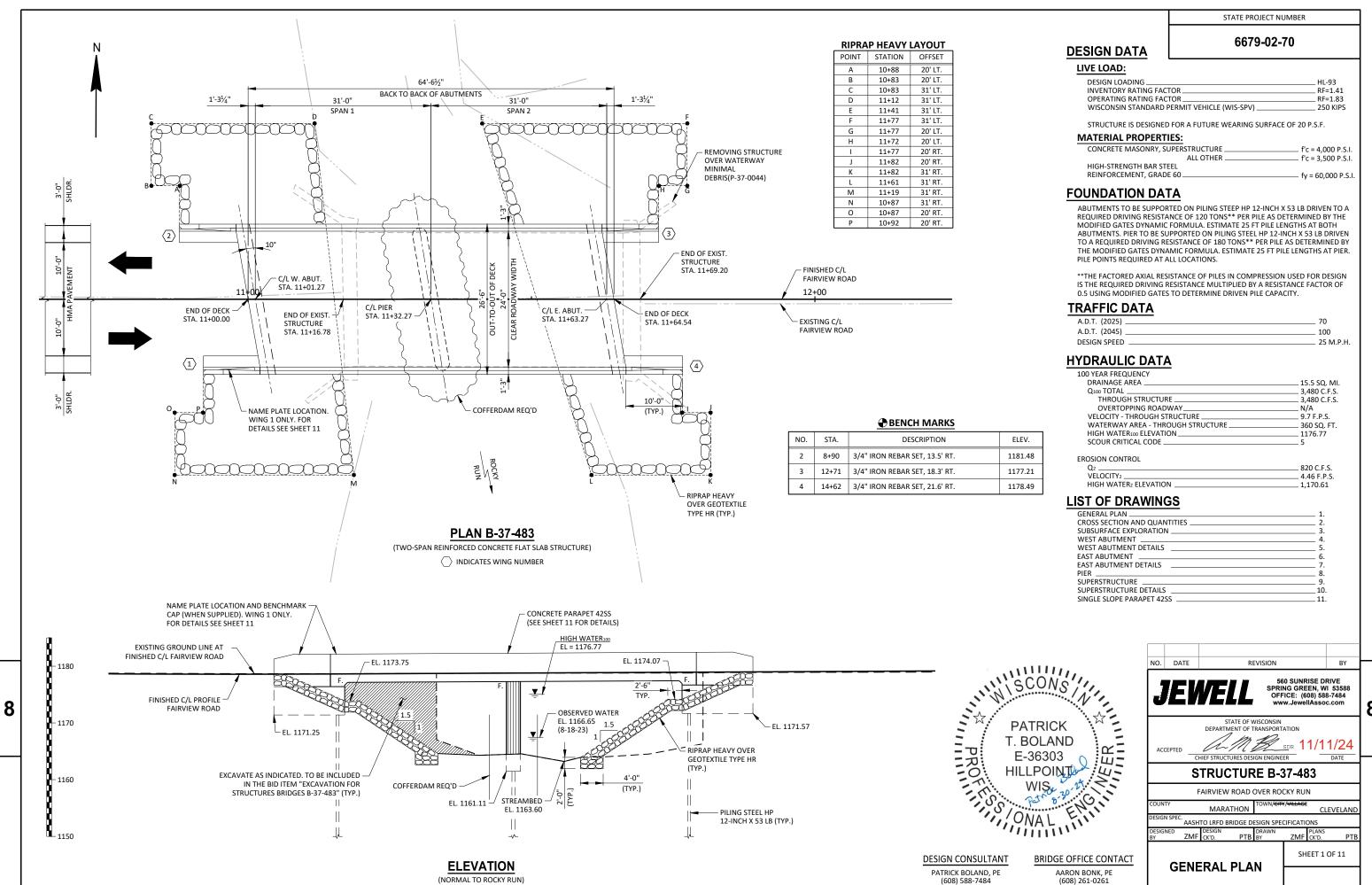
PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε



PLOT DATE: 4-MARCH 2024 11:57 PLOT NAME : PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42 PLOT BY : dotc4c



FILES (FINALS (W11691_U1_GENERAL PLAN.I

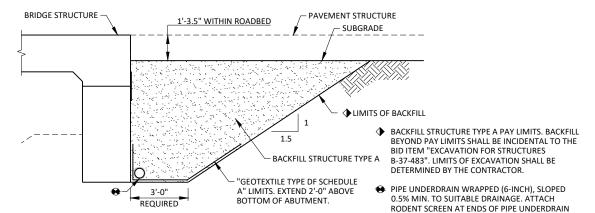
PLOT DATE: 8/30/2024 3:02:58

: BOLAND, PATRICK

LAYOUT: 1 GENERAL PLA

PROPOSED CROSS-SECTION THROUGH ROADWAY

AT PIER



IN SPAN

WRAPPED 6-INCH.

AS DETAILED ON THIS SHEET. RODENT SCREEN TO

BE INCLUDED IN THE BID ITEM "PIPE UNDERDRAIN

BACKFILL STRUCTURE DETAIL

(TYPICAL AT ABUTMENTS, ABUTMENT BODY SHOWN - WING WALLS SIMILAR)

AT ABUTMENT

TOTAL ESTIMATED QUANTITIES

	101712 20111111122 407		_				
ITEM NUMBER	ITEM DESCRIPTION	UNIT	WEST ABUT.	PIER 1	EAST ABUT.	SUPER	TOTALS
203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS (P-37-0044)	EACH					1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-37-483	EACH					1
206.5001	COFFERDAMS B-37-483	EACH					1
210.1500	BACKFILL STRUCTURE TYPE A	TON	95		95		190
502.0100	CONCRETE MASONRY BRIDGES	CY	27	37.5	27	122.5	214
502.3200	PROTECTIVE SURFACE TREATMENT	SY				190	190
502.3210	PIGMENTED SURFACE SEALER	SY				85	85
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1,580	1,670	1,580		4,830
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,290	50	1,290	24,140	26,770
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	5	5			10
550.0500	PILE POINTS	EACH	4	5	4		13
550.1120	PILING STEEL HP 12-INCH X 53 LB	LF	100	125	100		325
606.0300	RIPRAP HEAVY	CY	130		120		250
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	75		75		150
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	20		20		
645.0120	GEOTEXTILE TYPE HR	SY	220		200		
502.9000.S.01	UNDERWATER SUBSTRUCTURE INSPECTION B-37-483	EACH					1
	NON-BID ITEMS						
	FILLER	SIZE			1/2" & 3/4"		
	NAME PLATE						

GENERAL NOTES

* 6" NOMINAL

RODENT SCREEN

3/8" MAX.

6679-02-70

STATE PROJECT NUMBER

DRAWINGS SHALL NOT BE SCALED.

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICA VERTICAL

DATUM OF 1988 (2012).

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR

NOTED.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN

ALTERNATE METHOD IF APPROVED BY THE ENGINEER.

JOINT FILLER SHALL CONFORM TO A.A.S.H.T.O. DESIGNATION MI53, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M213.

THE SLOPE OF FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS, OR AS DIRECTED BY THE ENGINEER IN THE FIELD.

AT THE BACK FACE OF ABUTMENTS, ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TYPE A. SEE THIS SHEET FOR DETAIL.

ANY EXCAVATION BELOW THE ABUTMENT AND ASSOCIATED ABUTMENT BEDDING MATERIALS REQUIRE THE APPROVAL OF THE ENGINEER IN THE FIELD.

THE EXISTING STREAM BED SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS.

APPLY PROTECTIVE SURFACE TREATMENT TO THE TOP OF THE DECK (FINISHED AREAS ONLY).

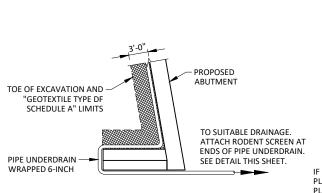
APPLY PIGMENTED SURFACE SEALER TO THE INSIDE, TOP, AND END FACES OF PARAPETS (CONCRETE MATERIAL ONLY).

ALL STATIONS AND ELEVATIONS SHOWN ARE IN FEET.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-37-483" SHALL BE THE EXISTING GROUNDLINE.

THE FIRST DIGIT OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE.

THE EXISTING STRUCTURE (P-37-0044) IS A SINGLE SPAN PRECAST BOX GIRDER STRUCTURE WITH CONCRETE ABUTMENTS. THE STRUCTURE HAS A 24' CLEAR BRIDGE WIDTH AND IS 51.6' LONG AND SHALL BE REMOVED.



*1½"

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE

THE RODENT SCREEN, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SCREEN SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE

GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SCREEN TO THE EXPOSED ENDS OF

THE PIPE LINDERDRAIN THE SCREEN SHALL BE EASTENED TO THE PIPE COLIPLING

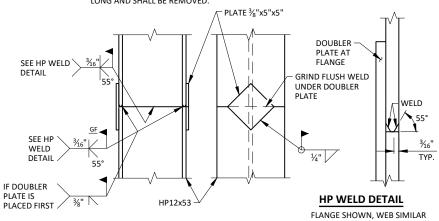
للممممممالا

SECTION A-A

ORIENT SCREEN SO SLOTS ARE VERTICAL.

NOTES:

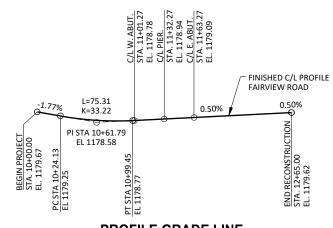
COUPLING.



PIPE UNDERDRAIN DETAIL

PILE SPLICE DETAIL

STEEL "HP" PILE MATERIAL SHALL BE ASTM A 572 GRADE 50.

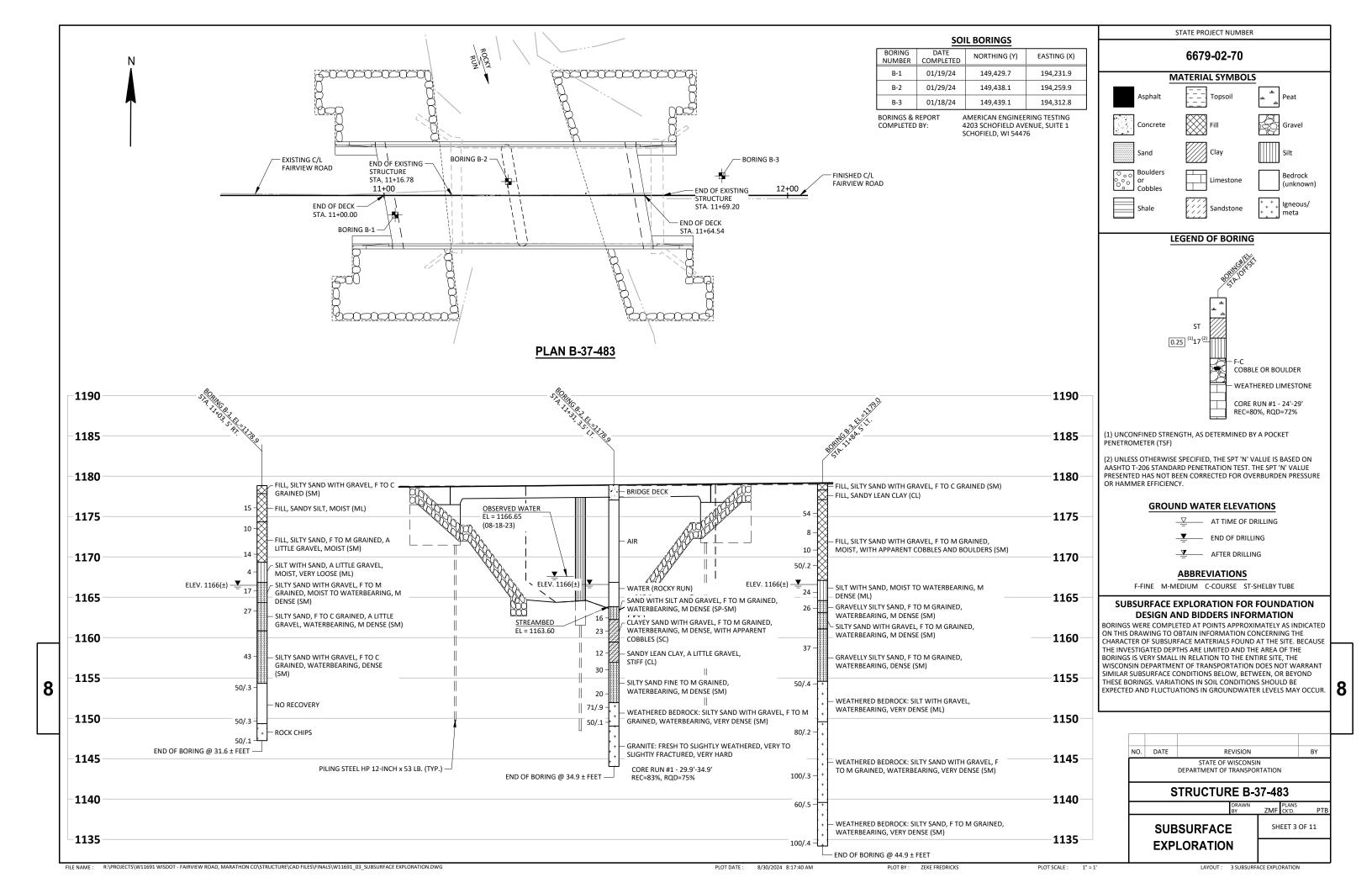


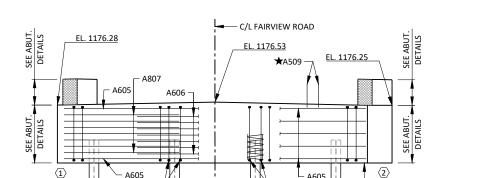
PROFILE GRADE LINE

FAIRVIEW ROAD

8

8





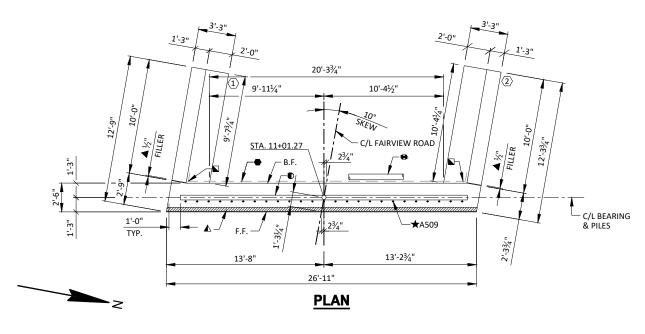
- A501

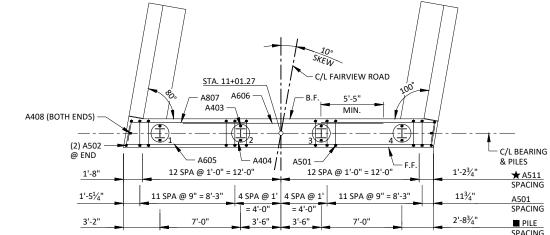
FRONT FACE BAR STEEL REINF.

ELEVATION

BACK FACE BAR STEEL REINF.

(WEST ABUTMENT LOOKING WEST)





LAYOUT

NOTES

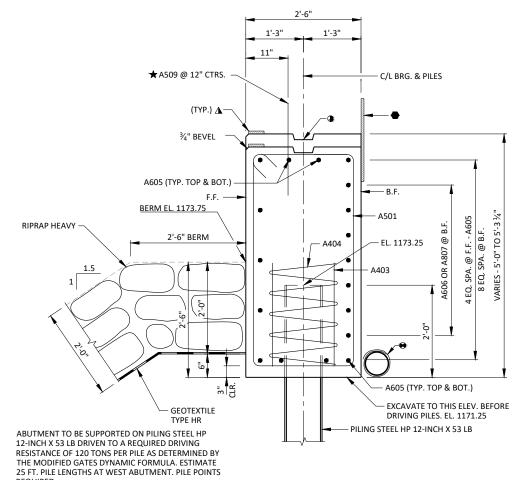
SOME BARS HAVE BEEN OMITTED FOR CLARITY. SEE SHEET 5 FOR BILL OF BARS.

SEAT ELEVATIONS SHOWN IN THE ELEVATION VIEW ARE TAKEN AT THE C/L OF BEARING (NEGLECTING THE KEYED CONSTRUCTION JOINT).

SPACE REINFORCEMENT TO MISS PILING

F.F. - FRONT FACE

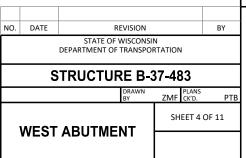
B.F. - BACK FACE



TYPICAL SECTION THROUGH ABUTMENT BODY

LEGEND

- ★ KEYED CONSTRUCTION JOINT FORMED BY SURFACED & BEVELED 2x6.
- ✓ VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING EXTEND FROM 9" BELOW BRIDGE SEAT TO 1" BELOW TOP OF WINGS.
- 18" RUBBERIZED MEMBRANE WATERPROOFING. (HORIZONTAL)
- ▲ ½" FILLER EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINUOS JOINT SEALER. (1" DEEP & HOLD 1/8" BELOW SURFACE OF CONCRETE)
- ★ A509 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE IT HAS TAKEN ITS INITIAL SET. EMBED BAR 1'-0".
- PILE SPACING MEASURED AT BASE OF ABUTMENT BODY.
- PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPED 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SCREEN AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 2.
 RODENT SCREEN TO BE INCLUDED IN THE BID ITEM "PIPE UNDERDRAIN WRAPPED
- INDICATES WING NUMBER.



STATE PROJECT NUMBER

6679-02-70

8



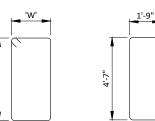
6679-02-70

BILL OF BARS WEST ABUTMENT

1,290 LB (COATED) 1,580 LB (UNCOATED)

BAR MARK	NO. REQ'D.	LENGTH	BENT	COAT	LOCATION	
A501	31	14-2	Х		BODY -VERT STIRRUP	
A502	4	7-10	Х		BODY - VERT STIRRUP AT ENDS	
A403	8	2-3			BODY - VERT 2 PER PILE	
A404	4	28-0	Х		BODY - SPIRAL - 1 PER PILE	
A605	11	26-6			BODY - HORIZ F.F., BOT & TOP	
A606	7	17-4			BODY - HORIZ B.F CENTER	
A807	14	10-0			BODY - HORIZ B.F BOTH ENDS	
A408	2	4-7			BODY - VERT END	
A509	25	2-0			BODY - VERT DOWELS	
A510	10	15-8	Х	Х	WING 1- VERT STIRRUP	
A511	1	4-7		Х	WING 1- VERT F.F.	
A512	6	12-4		Х	WING 1- HORIZ F.F.	
A613	6	11-9		Х	WING 1 - HORIZ B.F.	
A614	2	12-0		Х	WING 1- HORIZ TOP	
A615	13	8-9	Х	Х	WING 1 - VERT TOP	
A416	5	9-7		Х	WING 1 - HORIZ F.F. & B.F TOP	
A617	2	9-7		Х	WING 1 - HORIZ TOP	
A518	10	15-8	Х	Х	WING 2 - VERT STIRRUP	
A519	6	12-0		Х	WING 2 - HORIZ F.F.	
A620	6	12-6		Х	WING 2 - HORIZ B.F.	
A621	2	12-2		Х	WING 2 - HORIZ TOP	
A622	13	8-9	Х	Х	WING 2 - VERT TOP	
A423	5	9-7		Х	WING 2 - HORIZ F.F. & B.F TOP	
A624	2	9-7		Х	WING 2 - HORIZ TOP	

NOTES: THE FIRST DIGIT OF A BAR MARK SIGNIFIES THE BAR SIZE. DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.



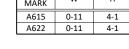
4-7



A502

A615, A622

BAR MARK	'W'	'H'
A615	0-11	4-1
Δ622	0-11	Δ-1



5-WRAP

SPIRAL

8

SOME BARS HAVE BEEN OMITTED FOR CLARITY. SEE THIS SHEET FOR BILL OF BARS.

A501, A510, A518

'W'

A510 2-11 4-7

A518 2-11 4-7

A501 2-2

BAR MARK

SPACE REINFORCEMENT TO MISS PILING

F.F. - FRONT FACE

B.F. - BACK FACE

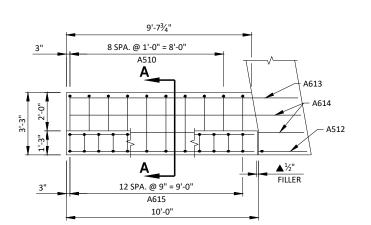
NOTES

NO. DATE BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION **STRUCTURE B-37-483** SHEET 5 OF 11

WEST ABUTMENT DETAILS

10'-0" 12 SPA. @ 9" = 9'-0" FILLER -⊞S512 OR S513 EL. 1178.55 EL. 1178.50 - A617 A416 EL. 1176.28 A510 EL. 1171.25 A613 9 SPA. @ 1'-0" = 9'-0" A510

B.F. ELEVATION - WING 1



F.F. ELEVATION - WING 1

10'-0"

12 SPA @ 9" = 9'-0"

A615

A512 -

9 SPA. @ 1'-0" = 9'-0"

EL. 1178.48

Ö A510

8

-⊞S512 OR S51

EL. 1178.52

EL. 1176.28

EL. 1171.25

PLAN VIEW - WING 1

LEGEND

● OPTIONAL KEYED CONSTRUCTION JOINT FORMED BY SURFACED & BEVELED 2x6. ¾-INCH "V" GROOVE AT FRONT FACE OF WING WALL AND HORIZONTAL 18" RUBBERIZED MEMBRANE WATERPROOFING AT BACK FACE IF CONSTRUCTION JOINT IS USED. COST IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY

SECTION A-A

-⊞S512 OR S513

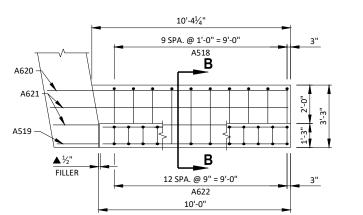
- ▲ ½" FILLER EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINUOS JOINT SEALER. (1" DEEP & HOLD 1/8" BELOW SURFACE OF CONCRETE)
- ◆ SLOPE SAME AS SUPERSTRUCTURE.

(2) A617 @ TOP

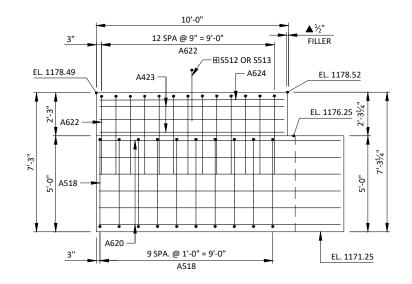
Ģ**.** A416 −

EQ. SPA. A512

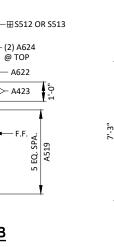
⊞ S512 AND S513 BARS TO BE TIED TO WING STEEL BEFORE WING IS POURED. SEE SHEET 11 FOR



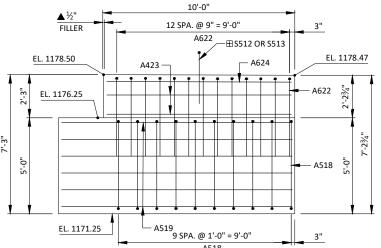
PLAN VIEW - WING 2



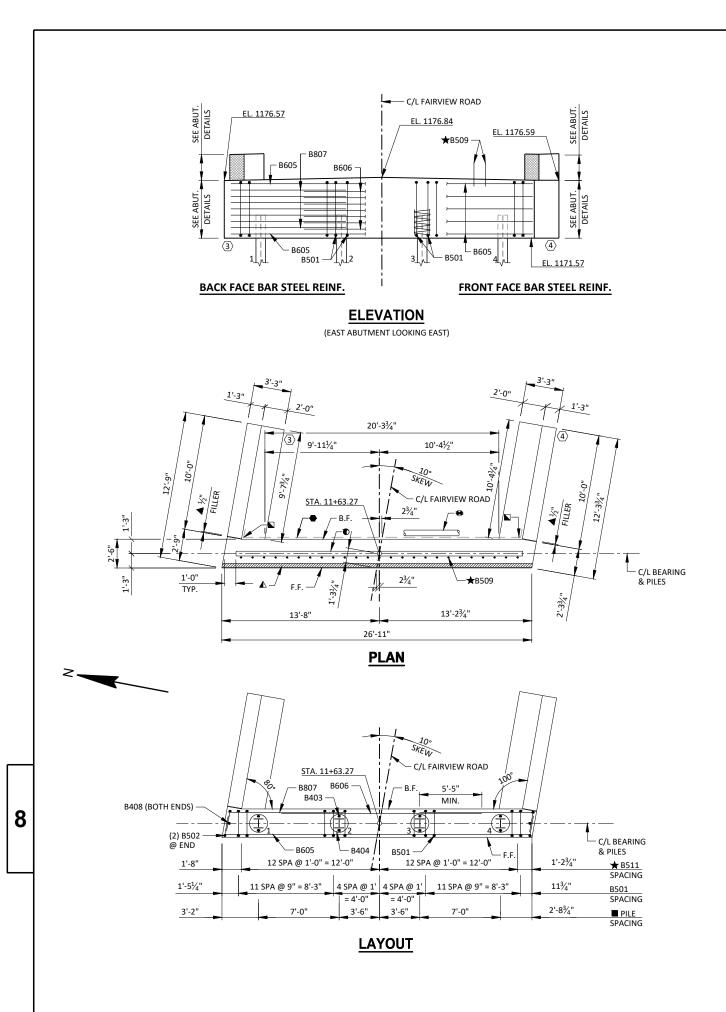
B.F. ELEVATION - WING 2



— (2) A624 A621 5 EQ. SPA A620 A518 **SECTION B-B**



F.F. ELEVATION - WING 2



NOTES

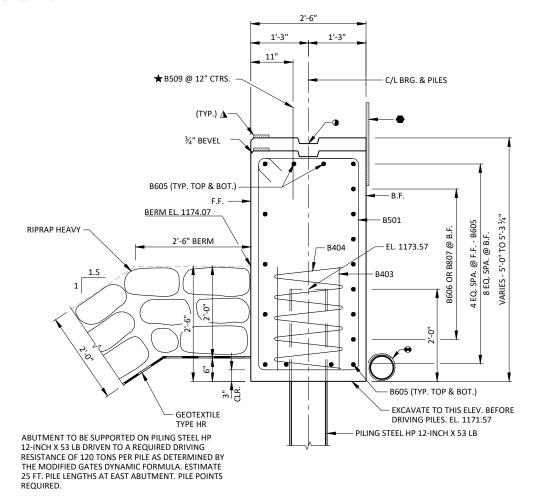
SOME BARS HAVE BEEN OMITTED FOR CLARITY. SEE SHEET 7 FOR BILL OF BARS.

SEAT ELEVATIONS SHOWN IN THE ELEVATION VIEW ARE TAKEN AT THE C/L OF BEARING (NEGLECTING THE KEYED CONSTRUCTION JOINT).

SPACE REINFORCEMENT TO MISS PILING

F.F. - FRONT FACE

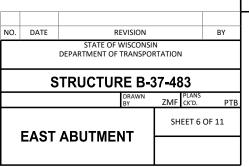
B.F. - BACK FACE



TYPICAL SECTION THROUGH ABUTMENT BODY

LEGEND

- ★ KEYED CONSTRUCTION JOINT FORMED BY SURFACED & BEVELED 2x6.
- ✓ VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING EXTEND FROM 9" BELOW BRIDGE SEAT TO 1" BELOW TOP OF WINGS.
- 18" RUBBERIZED MEMBRANE WATERPROOFING. (HORIZONTAL)
- ▲ ½" FILLER EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINUOS JOINT SEALER. (1" DEEP & HOLD 1/8" BELOW SURFACE OF CONCRETE)
- Δ $^{3}\!\!\!/_{4}$ " x 4" PREFORMED FILLER, EXTEND FULL LENGTH OF ABUTMENTS BETWEEN EDGES OF SLAB.
- ★ B509 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE IT HAS TAKEN ITS INITIAL SET. EMBED BAR 1'-0".
- PILE SPACING MEASURED AT BASE OF ABUTMENT BODY.
- PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPED 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SCREEN AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 2. RODENT SCREEN TO BE INCLUDED IN THE BID ITEM "PIPE UNDERDRAIN WRAPPED
- \bigcirc Indicates wing number.



STATE PROJECT NUMBER

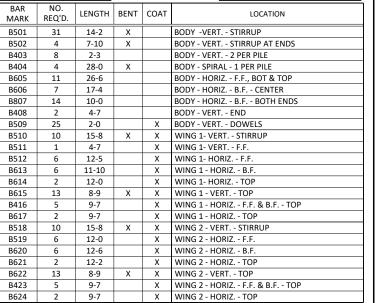
6679-02-70

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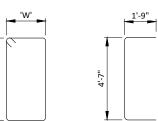
6679-02-70

BILL OF BARS EAST ABUTMENT

1,290 LB (COATED) 1,580 LB (UNCOATED)



NOTES: THE FIRST DIGIT OF A BAR MARK SIGNIFIES THE BAR SIZE. DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.





B615, B622

'W'

0-11

0-11

Ή'

4-1

4-1

SPIRAL

8

BAR	
MARK	
B615	
B622	
	MARK B615

DIA. 5-WRAP

NOTES

BAR MARK

SOME BARS HAVE BEEN OMITTED FOR CLARITY. SEE THIS SHEET FOR BILL OF BARS.

B501, B510, B518

'W'

B510 2-11 4-7

B518 2-11 4-7

4-7

B501 2-2

SPACE REINFORCEMENT TO MISS PILING

F.F. - FRONT FACE

B.F. - BACK FACE

NO. DATE BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-37-483 SHEET 7 OF 11 **EAST ABUTMENT**

DETAILS

—⊞S512 OR S513 (2) B617 . B416 -- B614 5 EQ. SP/ B512

F.F. ELEVATION - WING 3

—⊞S512 OR S513

EL. 1178.82

EL. 1176.57

EL. 1171.57

10'-0"

12 SPA @ 9" = 9'-0"

B615

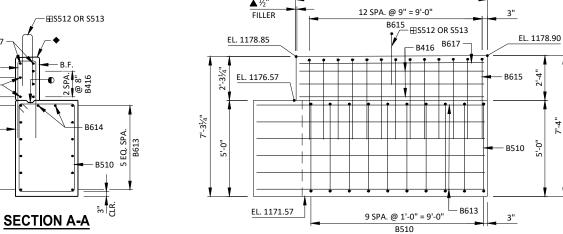
9 SPA. @ 1'-0" = 9'-0"

B512

EL. 1178.87

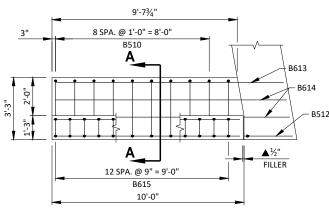
B510

8



B.F. ELEVATION - WING 3

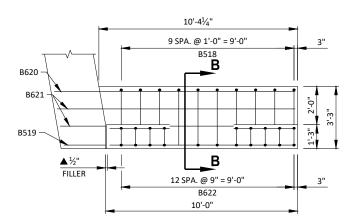
10'-0"



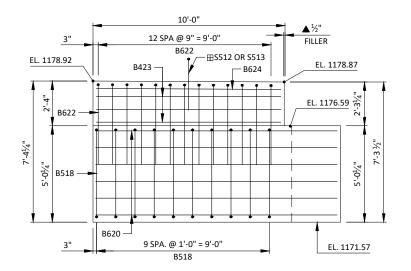
PLAN VIEW - WING 3

LEGEND

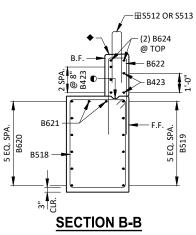
- O OPTIONAL KEYED CONSTRUCTION JOINT FORMED BY SURFACED & BEVELED 2x6. ¾-INCH "V" GROOVE AT FRONT FACE OF WING WALL AND HORIZONTAL 18" RUBBERIZED MEMBRANE WATERPROOFING AT BACK FACE IF CONSTRUCTION JOINT IS USED, COST IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY
- ▲ ½" FILLER EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINUOS JOINT SEALER. (1" DEEP & HOLD 1/8" BELOW SURFACE OF CONCRETE)
- ◆ SLOPE SAME AS SUPERSTRUCTURE.
- ⊞ S512 AND S513 BARS TO BE TIED TO WING STEEL BEFORE WING IS POURED. SEE SHEET 11 FOR

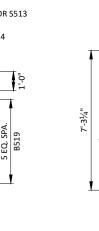


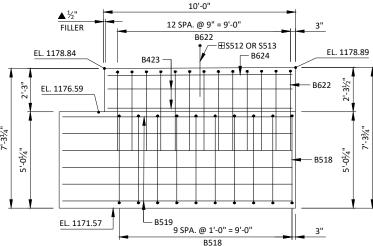
PLAN VIEW - WING 4



B.F. ELEVATION - WING 4







F.F. ELEVATION - WING 4



6679-02-70

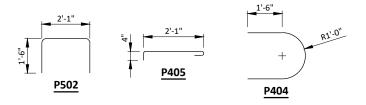
BILL OF BARS PIER

50 LB (COATED) 1,670 LB (UNCOATED)

BAR MARK	NO. REQ'D.	LENGTH	BENT	COAT	LOCATION
P501	54	15-4			BODY - VERT E.F. & ENDS
P502	12	4-10	Х		BODY - VERT TOP
P403	32	23-0			BODY - HORIZ E.F.
P404	32	6-2	Х		BODY - HORIZ ENDS
P405	70	2-7	Х		TIE BARS
P506	25	2-0		Х	BODY - VERT DOWELS

NOTES: THE FIRST DIGIT OF A BAR MARK SIGNIFIES THE BAR SIZE.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.



NOTES

AT PIER, COFFERDAM REQUIRED, CONCRETE POURED UNDERWATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH STANDARD SPEC 502.3.5.3. CONCRETE POURED UNDERWATER SHALL NOT EXCEED 10.0 FEET IN DEPTH, UNLESS APPROVED OTHERWISE.

SOME BARS HAVE BEEN OMITTED FOR CLARITY. SEE THIS SHEET FOR BILL OF BARS.

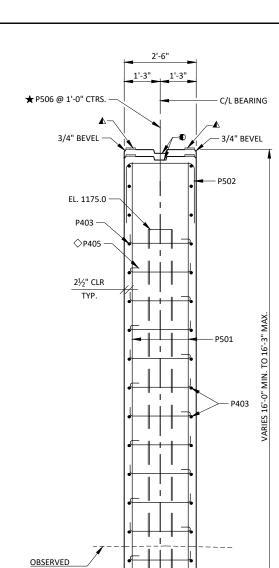
SEAT ELEVATIONS SHOWN IN THE ELEVATION VIEW ARE TAKEN AT THE C/L OF BEARING, NEGLECTING THE KEYED CONSTRUCTION JOINT.

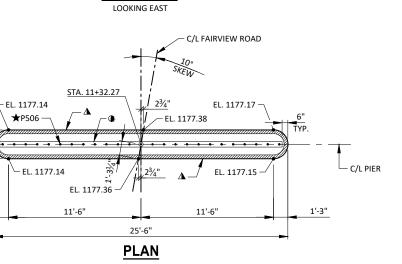
TOP OF PIER ELEVATIONS ARE $\frac{3}{4}$ " BELOW BOTTOM OF DECK TO ALLOW FOR FILLER.

E.F. - EACH FACE

LEGEND

- ♠ KEYED CONSTRUCTION JOINT FORMED BY SURFACED & BEVELED 2x6.
- ▲ ¾"x4" PREFORMED FILLER, EXTEND FULL PERIMETER OF PIER AS SHOWN.
- ★ P506 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE IT HAS TAKEN
- PILE SPACING MEASURED AT BASE OF SHAFT.
- \diamondsuit Place P405 bars adjacent to each pile only. Tie to nearest vertical no. 5 BAR. VERTICAL SPACING @ 1° -0" TO MATCH NO. 4 OUTSIDE BARS FROM BASE OF SHAFT TO TOP OF PILING. ALTERNATE THE POSITION OF THE 90° AND 180° HOOKS AT EACH VERTICAL LAYER OF TIES.

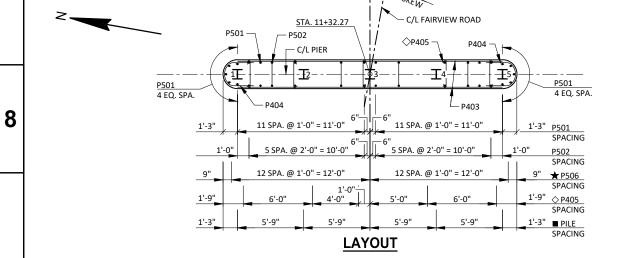




◇P405 -

ELEVATION

EL. 1177.13



C/L FAIRVIEW ROAD EL. 1177.37

P403

P502

EL. 1177.11

EL. 1161.11



DATE STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-37-483 SHEET 8 OF 11 **PIER**

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PLOT SCALE :

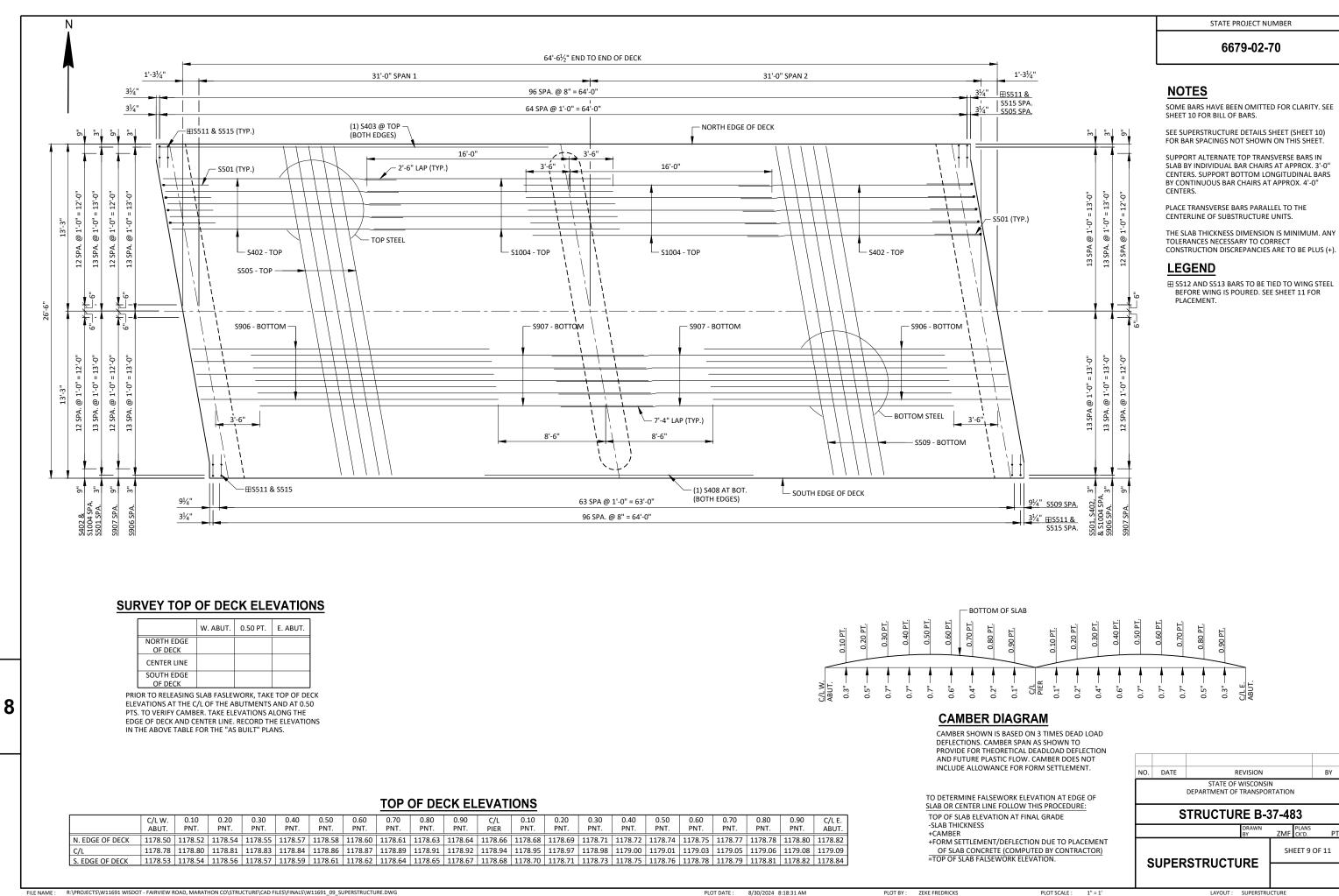
PILING STEEL 12-INCH x 53 LB DRIVEN -

TO A REQ'D. DRIVING RESISTANCE OF 180 TONS PER PILE AS DETERMINED BY

THE MODIFIED GATES DYNAMIC

FORMULA. ESTIMATE 25 FT. PILE

EL. 1161.11



8

STATE PROJECT NUMBER

6679-02-70

BILL OF BARS SUPERSTRUCTURE

24,140 LB (COATED)



NOTES: THE FIRST DIGIT OF A THREE DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

* LENGTH SHOWN IS AN AVERAGE LENGTH ONLY. SEE BAR SERIES TABLE FOR

BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTH
S518	4 SERIES OF 6	6-1 TO 4-9

BUNDLE AND TAG EACH SERIES SEPARATELY

<u>LEGEND</u>

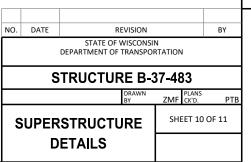
- 18" RUBBERIZED MEMBRANE WATERPROOFING. (HORIZONTAL)
- * DIMENSION IS NORMAL TO THE C/L OF SUBSTRUCTURE UNITS.
- ** SEE SHEETS 4 AND 6 FOR PLACEMENT OF A509 AND B509 BARS.
- ⊞ S511 BARS TO BE TIED TO DECK STEEL BEFORE DECK IS POURED

NOTES

SUPPORT ALTERNATE TOP TRANSVERSE BARS IN SLAB BY INDIVIDUAL BAR CHAIRS AT APPROX. 3'-0" CENTERS. SUPPORT BOTTOM LONGITUDINAL BARS BY CONTINUOUS BAR CHAIRS AT APPROX. 4'-0" CENTERS.

PLACE TRANSVERSE BARS PARALLEL TO THE CENTERLINE OF SUBSTRUCTURE UNITS.

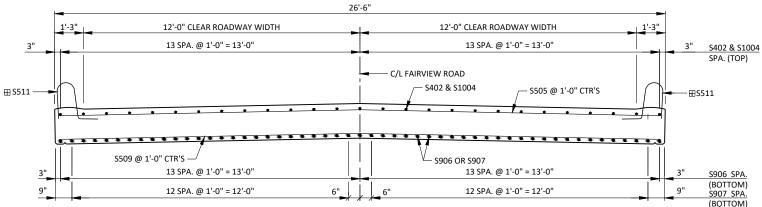
THE SLAB THICKNESS DIMENSION IS MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).



26'-6" 12'-0" CLEAR ROADWAY WIDTH 12'-0" CLEAR ROADWAY WIDTH 9" 12 SPA. @ 1'-0" = 12'-0" 6" 12 SPA. @ 1'-0" = 12'-0" S402 & S1004 SPA. (TOP) - C/L FAIRVIEW ROAD S402 & S1004 __ S505 @ 1'-0" CTR'S ⊞S511 - ⊞S511 (1) S403 · S509 @ 1'-0" CTR'S -- S906 OR S907 13 SPA. @ 1'-0" = 13'-0" 13 SPA. @ 1'-0" = 13'-0" S906 SPA. (BOTTOM) S907 SPA. (BOTTOM) 12 SPA. @ 1'-0" = 12'-0" 12 SPA. @ 1'-0" = 12'-0"

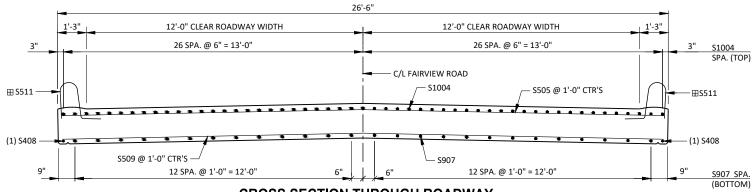
CROSS SECTION THROUGH ROADWAY

AT SPAN 1 - LOOKING EAST



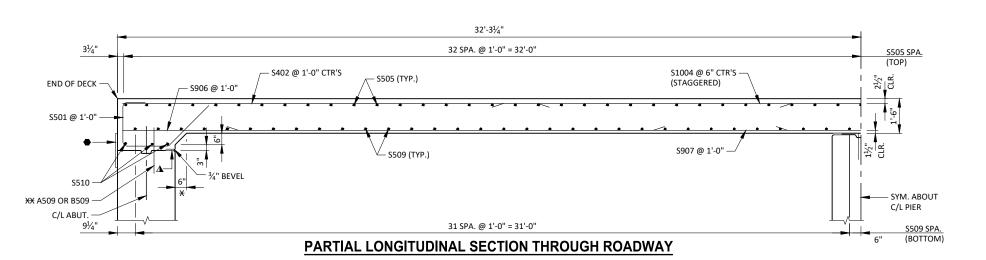
CROSS SECTION THROUGH ROADWAY

AT SPAN 2 - LOOKING EAST



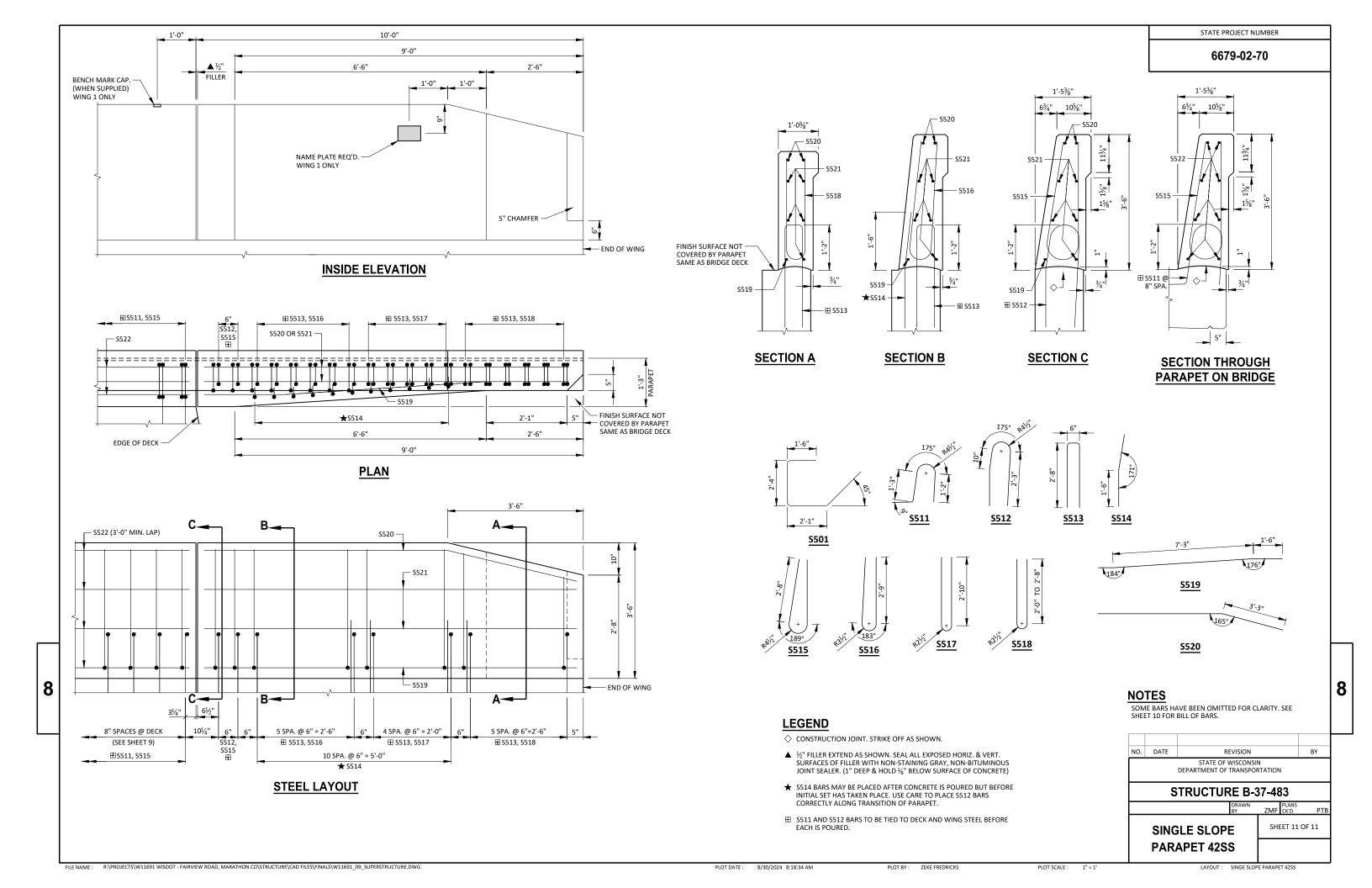
CROSS SECTION THROUGH ROADWAY

AT PIER - LOOKING EAST



8

8



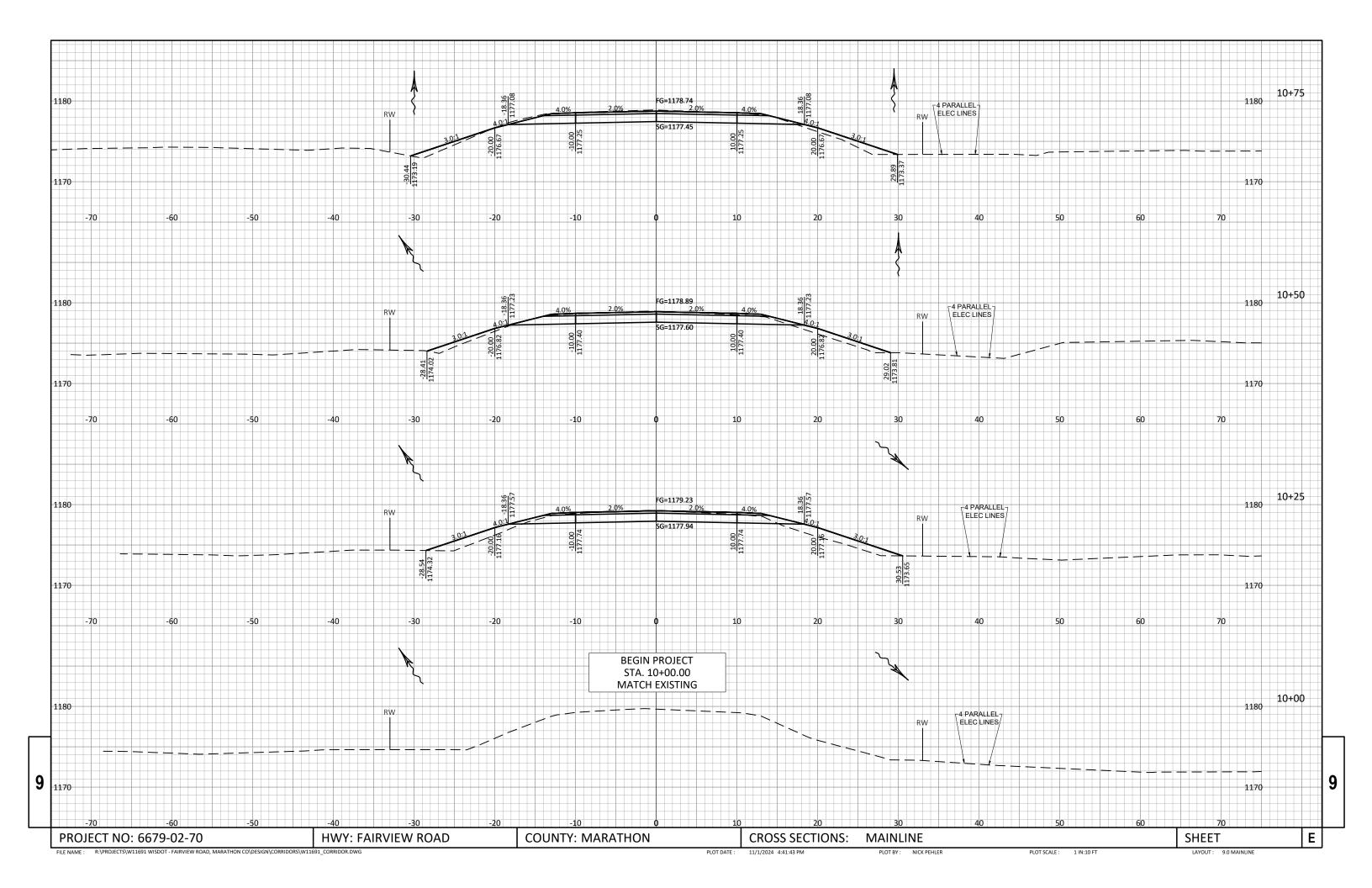
EARTHWORK - MAINLINE

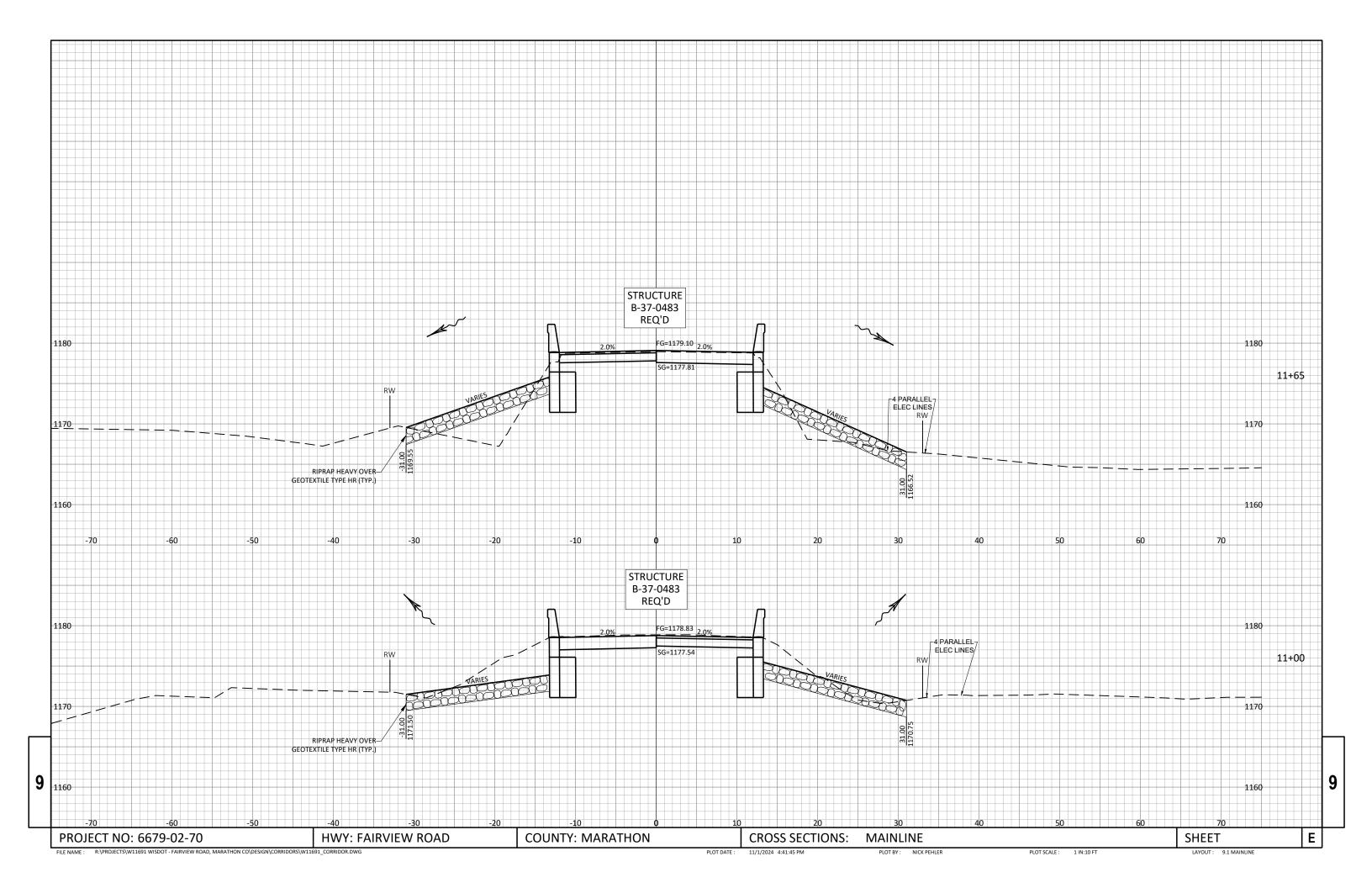
	AREA	AREA (SF) INCREMENTAL VOLUME (CY) CUMUL			INCREMENTAL VOLUME (CY)			TIVE VOLUME (CY)
					EXPANDED				
					FILL	CUT		FILL	MASS
STATION	CUT	FILL	CUT	FILL	(1.25)	(1.0)	FILL	(1.25)	ORDINATE
10+00	0	0	0	0	0	0	0	0	0
10+25	40	25	19	12	15	19	12	15	4
10+50	45	14	39	18	23	58	30	38	21
10+75	50	12	44	12	15	102	42	53	50
11+00	340	90	181	47	59	283	89	111	172
BRIDGE START	0	0	0	0	0	283	89	111	172
BRIDGE END	0	0	0	0	0	283	89	111	172
11+64.54	0	123	0	0	0	283	89	111	172
11+75	73	41	14	30	38	297	119	149	148
12+00	40	10	52	24	30	349	143	179	170
12+25	31	8	33	8	10	382	151	189	193
12+50	31	8	29	7	9	411	158	198	214
12+65	0	0	9	2	3	420	160	200	220
MAINLINE COLUMN TOTALS =			420	160	200	420	160	200	220

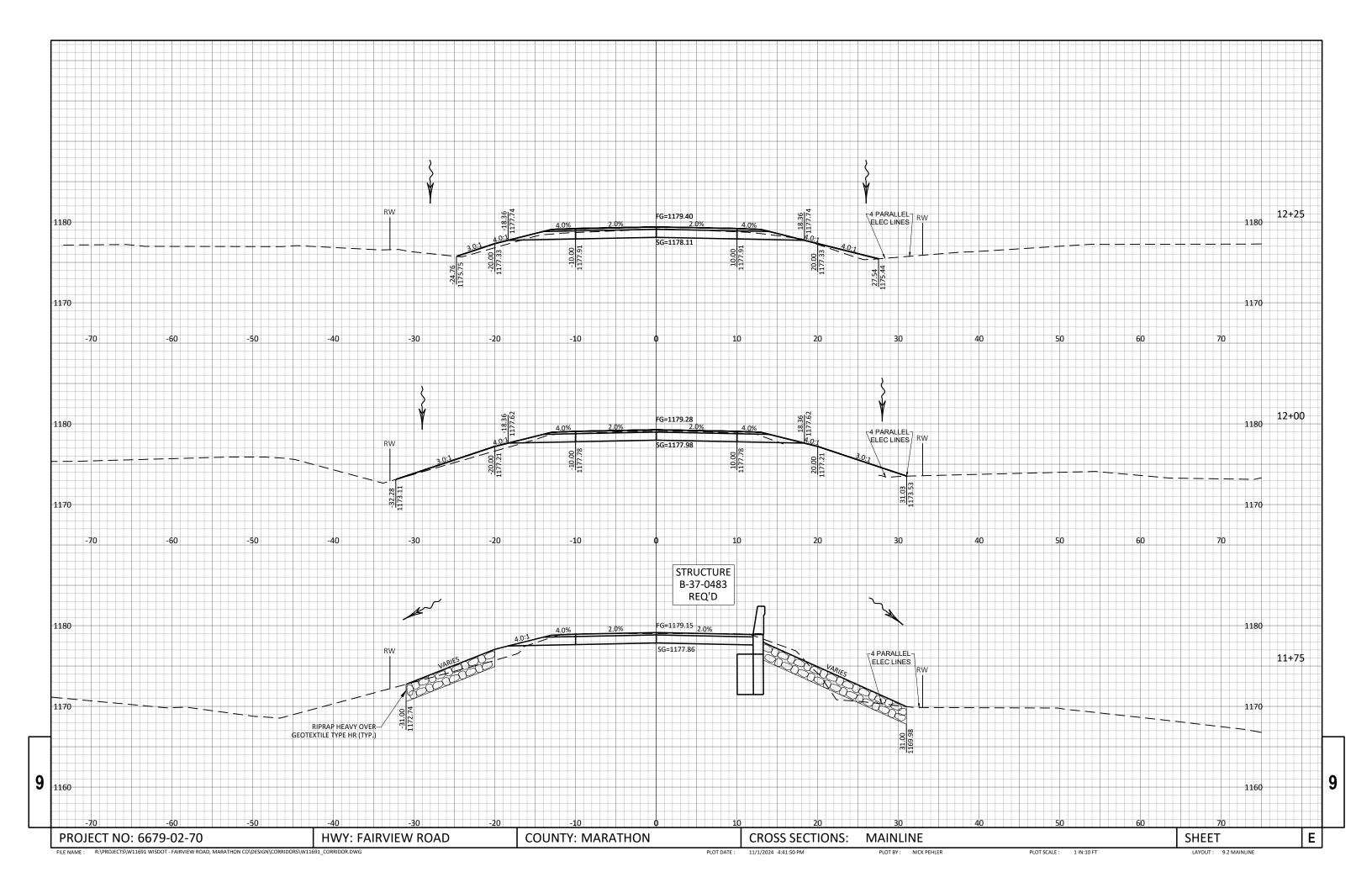
9

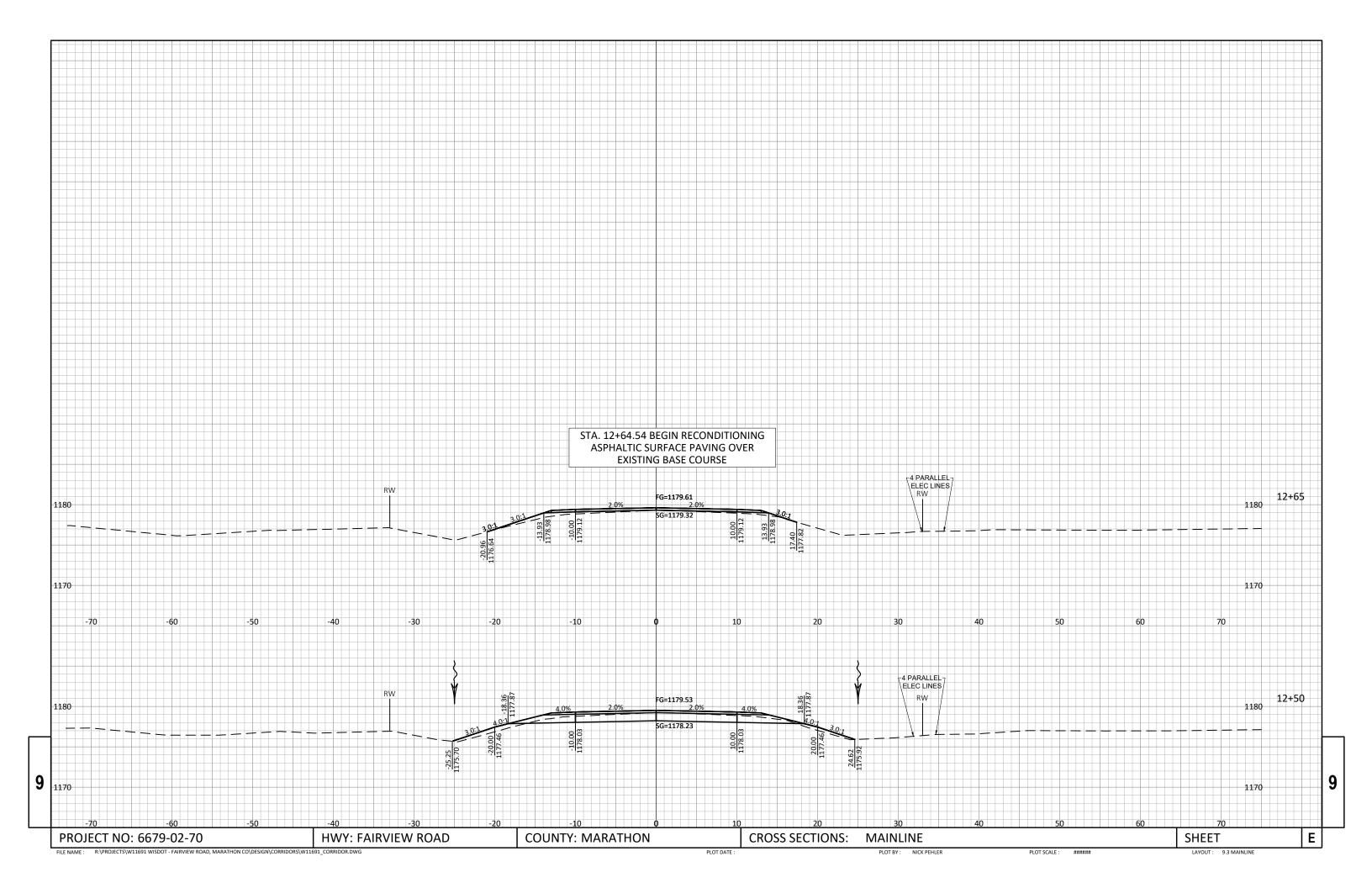
9

COUNTY: MARATHON PROJECT NO: 6679-02-70 HWY: FAIRVIEW ROAD **EARTHWORK TABLES** SHEET E PLOT BY: NICK PEHLER









Notes



Wisconsin Department of Transportation

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