STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

PLAN OF PROPOSED IMPROVEMENT

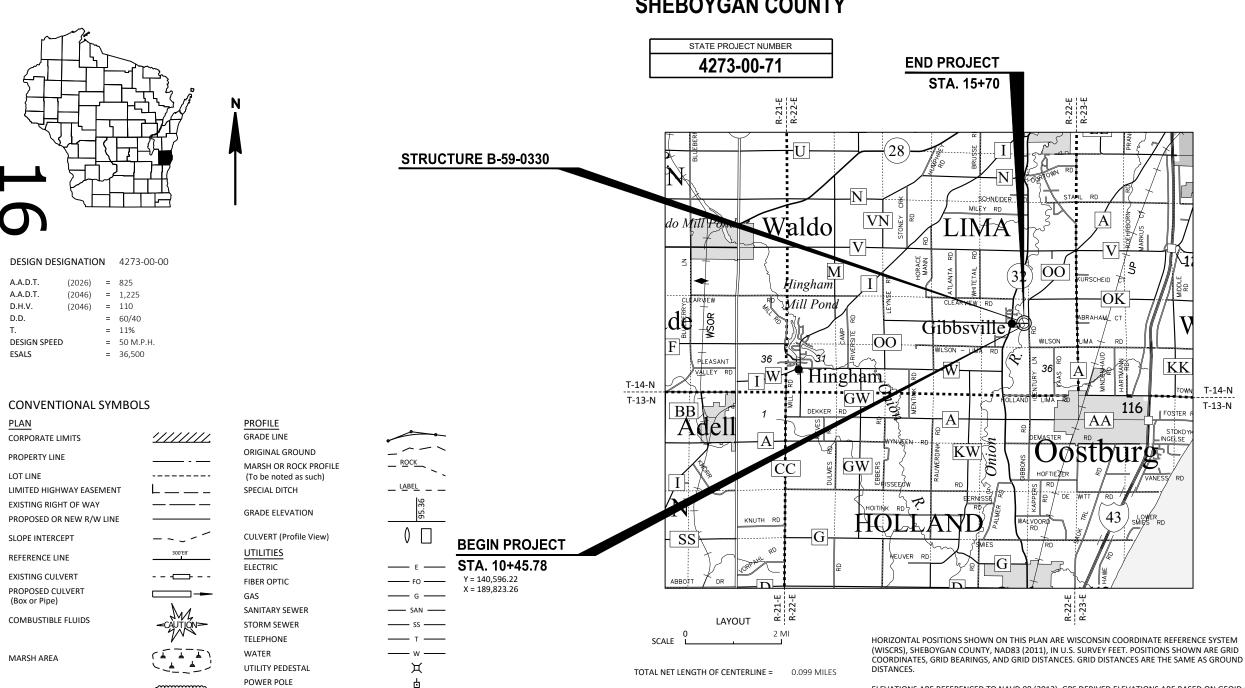
STATE PROJECT CONTRACT 4273-00-71

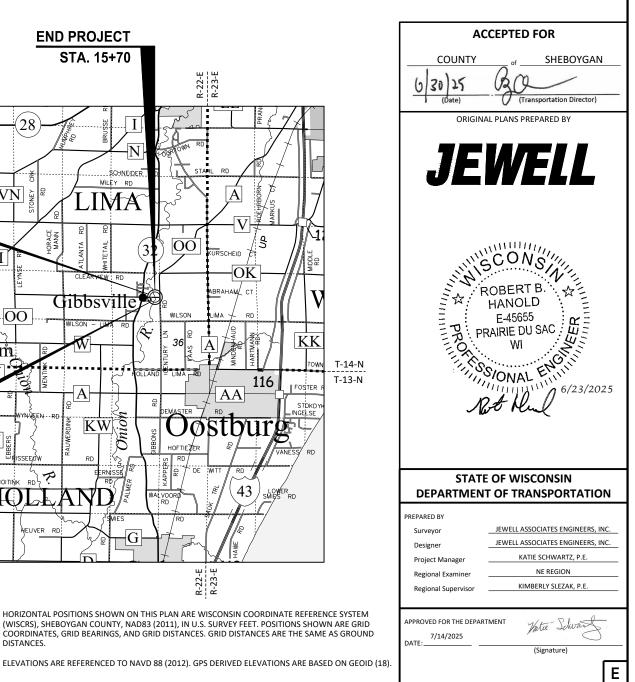
FEDERAL PROJECT

LIMA - SHEBOYGAN FALLS

ONION RIVER BRIDGE

CTH OO SHEBOYGAN COUNTY





TELEPHONE POLE

WOODED OR SHRUB AREA

Ø

Typical Sections and Details

Plan and Profile (Includes Erosion Control Plan)

Estimate of Quantities

Right of Way Plat

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

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

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE, AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS COMMON EXCAVATION. EXACT LOCATIONS OF EBS WILL BE DETERMINED 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. 70 OR NO. 20). AND MULCHED 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 COURSE SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF MATERIAL AS DIRECTED BY THE

SILT FENCE, TURBIDITY BARRIER, AND TEMPORARY DITCH CHECKS SHALL BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER IN THE FIELD. SILT FENCE AND TURBIDITY BARRIER 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 SAWCUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD

WETLANDS ARE PRESENT IN THE PROJECT LIMITS. THE CONTRACTOR SHALL NOT OPERATE EQUIPMENT OR STOCKPILE MATERIALS BEYOND THE EXISTING SLOPE INTERCEPT FROM STA. 13+20 - 13+23, RT. & STA. 13+62 -

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

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

ASPHALTIC SURFACE QUANTITIES WERE CALCULATED USING 115 LB/SY/IN.

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

4-INCHES OF ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH A 2 $\frac{1}{4}$ -INCH LOWER LAYER AND A 1 $\frac{3}{4}$ -INCH

ORDER OF SECTION 2 SHEETS:

- GENERAL NOTES
- TYPICAL SECTIONS
- CONSTRUCTION DETAILS
- FROSION CONTROL
- ALIGNMENT (INCLUDES PERMANENT SIGNING)
- DETOUR PLAN

CONTACTS

WISDOT:

WISCONSIN DEPARTMENT OF TRANSPORTATION 944 VANDERPERREN WAY GREEN BAY, WI 54304 ATTN: KATIE SCHWARTZ, P.E PHONE: (920) 492-5652 EMAIL: katiea.schwartz@dot.wi.gov

SHEBOYGAN COUNTY **HIGHWAY DEPARTMENT:**

BRYAN OLSON, TRANSPORTATION DIRECTOR W5741 CTH J PLYMOUTH, WI 53073 PHONE: (920) 459-3822 EMAIL: bryan.olson@sheboygancounty.com

DESIGN CONSULTANT:

JEWELL ASSOCIATES ENGINEERS, INC. 560 SUNRISE DRIVE SPRING GREEN, WI 53588 ATTN: ROBERT HANOLD, P.E. PHONE: (608) 588-7484 CELL: (608) 606-3568 EMAIL: robert.hanold@jewellassoc.com

DNR LIAISON:

STATE OF WISCONSIN DNR SERVICE CENTER 2984 SHAWANO AVE GREEN BAY, WI 54313 ATTN: JAY SCHIEFELBEIN PHONE: (920) 360-3784 EMAIL: jeremiah.schiefelbein@wisconsin.gov

UTILITIES

ELECTRIC

WE ENERGIES ATTN: JOE FELLENZ W140N9100 LILLY ROAD MENOMONEE FALLS, WI 53051 PHONE: (262) 502-6831 CELL: (414) 322-8928 EMAIL: joseph.fellenz@we-energies.com

COMMUNICATIONS

CHARTER COMMUNICATIONS ATTN: IOHN BALDE 1320 N. DR. MARTIN LUTHER KING JR. DRIVE MILWAUKEE, WI 53212 PHONE: (414) 430-6712 EMAIL: john.balde@charter.com TIME WARNER CABLE

ATTN: JOHN BALDE 1320 N. DR. MARTIN LUTHER KING JR. DRIVE MILWAUKEE, WI 53212 PHONE: (414) 430-6712 EMAIL: john.balde@charter.com

TELEPHONE

FRONTIER COMMUNICATIONS ATTN: CHRIS POLLACK 521 4TH STREET WAUSAU, WI 54403 PHONE: (715) 847-1240 EMAIL: christopher.pollack@ftr.com

GAS

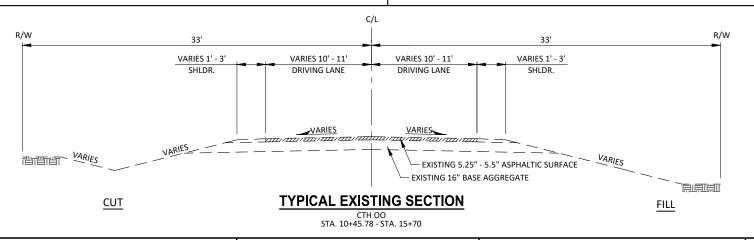
WE ENERGIES ATTN: JACOB HYBERT 500 S. 166th STREET WEST ALLIS, WI 53214 PHONE: (262) 968-5718 CELL: (414) 651-1577 MAIL: jacob.hybert@we-energies.com

SANITARY

GIBBSVILLE SANITARY DISTRICT ATTN: KEN TEBEEST P.O. BOX 700398 OOSTBURG, WI 53070 PHONE: (920) 889-9666 EMAIL: kentebeest@gmail.com



COUNTY: SHEBOYGAN



HWY: CTH OO

LIST OF STANDARD ABBREVIATIONS

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

		HYDROLOGIC SOIL GROUP											
		A	4		E	3		(3)	
	SLOPE	RANG	E (PERCENT)	SLOPE	RANG	E (PERCENT)	SLOPE	RANG	E (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	.7080												
DRIVES, WALKS	.7585												
ROOFS	OFS .7595												
GRAVEL ROADS, S	HOULD	DERS				.406	50						

TOTAL PROJECT AREA = 1.17 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.68 ACRES

GENERAL NOTES, UTILITIES, CONTACTS, & ABBREVIATIONS

FII F NAMF: S:\PROJECTS\SD9070 SHEBOYGAN CO - CTH OO BRIDGE REPLACEMENT\SHEETSPLAN\DETAILS\SD9070_GEN NOTES.DWG

PROJECT NO: 4273-00-71

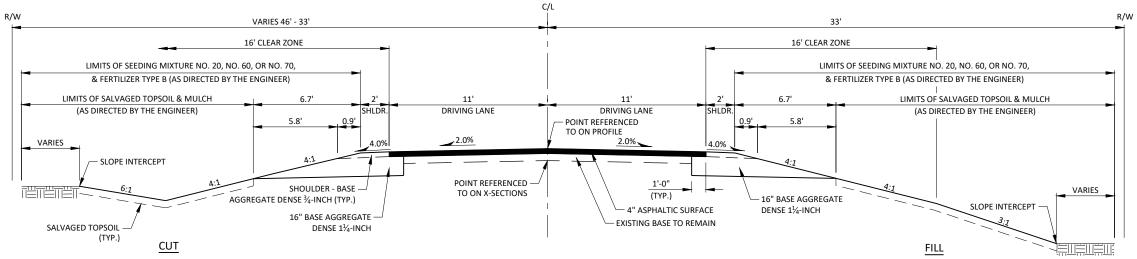
PLOT DATE : 6/19/2025 12:45:01 PM PLOT BY: COLTON PEPER

LAYOUT: SD9070_GEN NOTES

SHEET

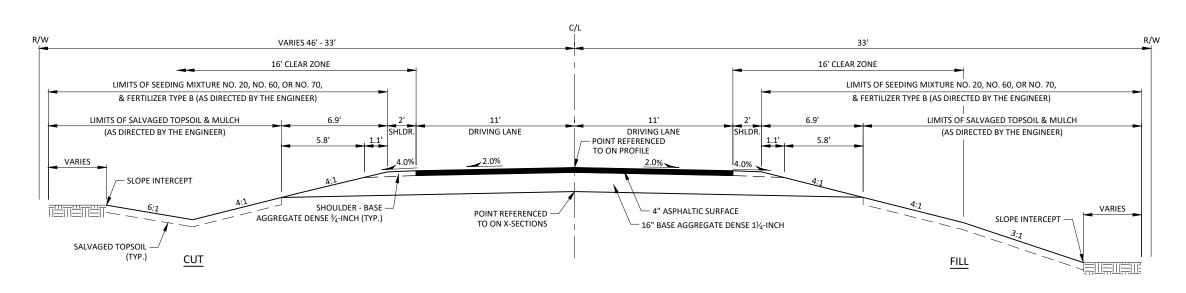
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TYPICAL FINISHED RECONDITION SECTION

CTH OO STA. 10+45.78 - STA. 11+45 STA. 14+25 - STA. 15+70

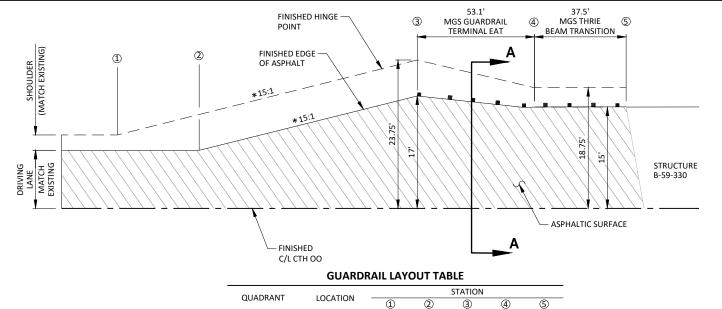


TYPICAL FINISHED RECONSTRUCTION SECTION

CTH OO STA. 11+45 - STA. 14+25

PROJECT NO: 4273-00-71	HWY: CTH OO	COUNTY: SHEBOYGAN	TYPICAL FIN	ISHED SECTION		SHEET	E
FILE NAME: S:\PROJECTS\SD9070 SHEBOYGAN CO - CTH OO BRIDGE REPLACEMENT\SHEETSPLAN\TYPICA	_S\SD9070 TYPICAL SECTIONS.DWG	PLOT DATE :	5/30/2025 10:40:02 AM	PLOT BY: COLTON PEPER	PLOT SCALE: 1" = 1'	LAYOUT: SD9070 TYPICAL SECTIONS - TYP	- PER

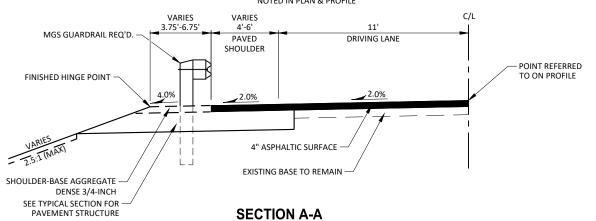


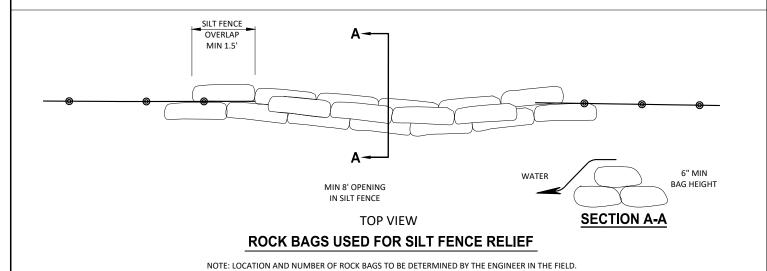


SOUTHWEST 11+91 MAINLINE, RT. 10+46 10+46 11+01 11+54 NORTHWEST MAINLINE, LT. 10+46 10+46 10+96 11+49 11+86 NORTHEAST 16+32 15+60 13+79 MAINLINE, LT. 14+69 14+16 SOUTHEAST 15+70 15+70 14+74 MAINLINE, RT. 14+21 13+84

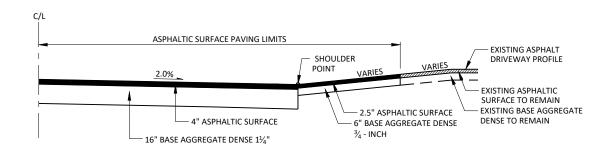
GUARDRAIL LAYOUT DETAIL

* 15:1 TAPER UNLESS OTHERWISE NOTED IN PLAN & PROFILE

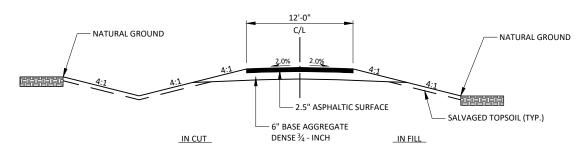




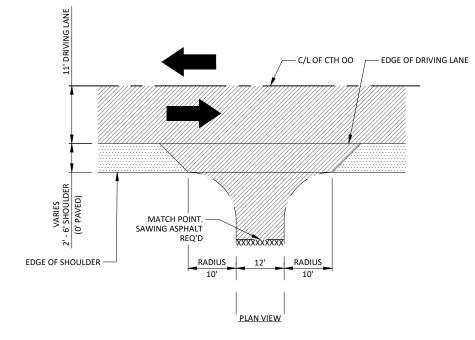
HWY: CTH OO



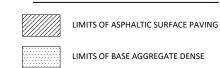
TYPICAL DRIVEWAY PROFILE



TYPICAL CROSS-SECTION FOR DRIVEWAY



APPROACH AT DRIVEWAY TYPICAL DRIVEWAY DETAILS

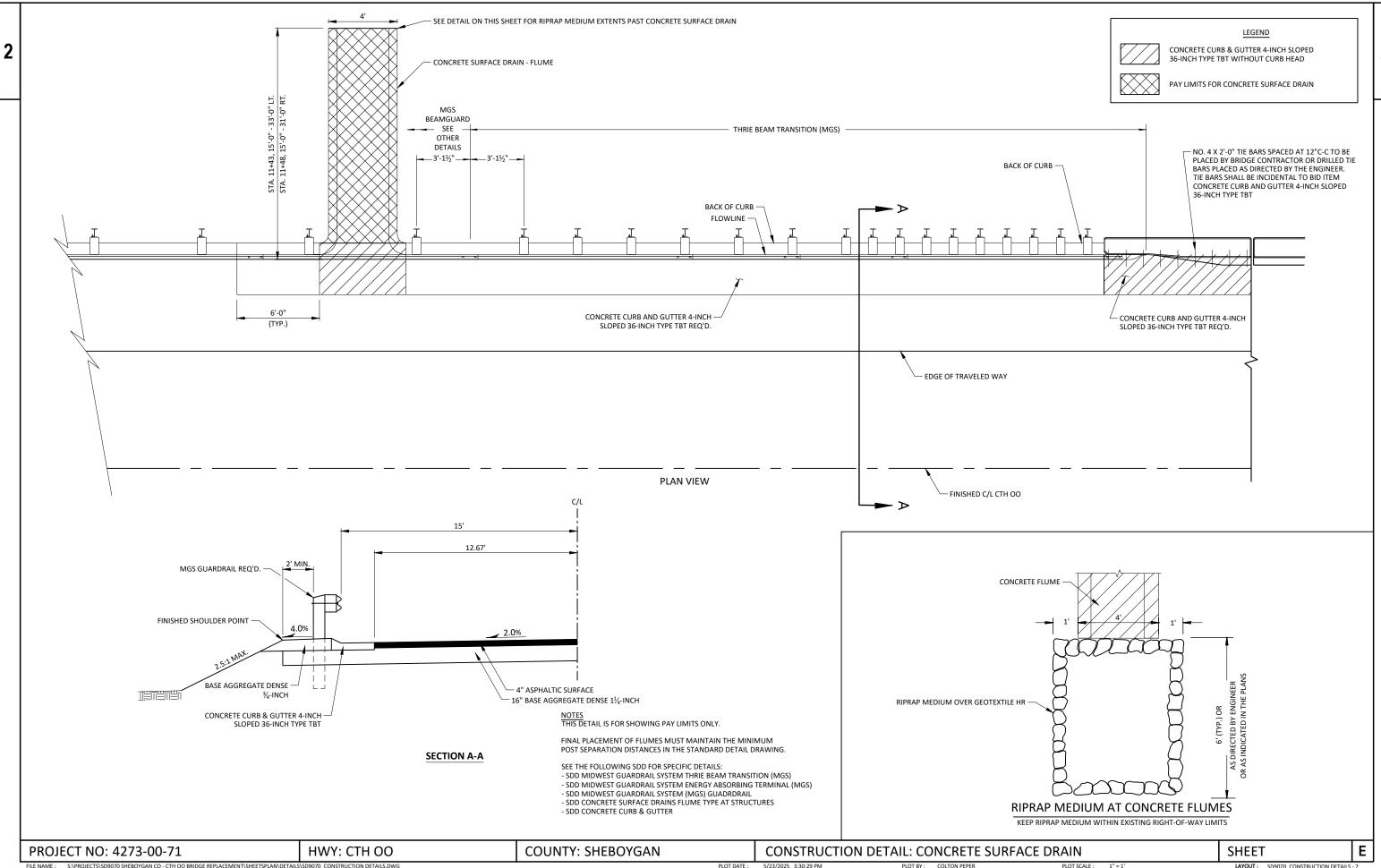


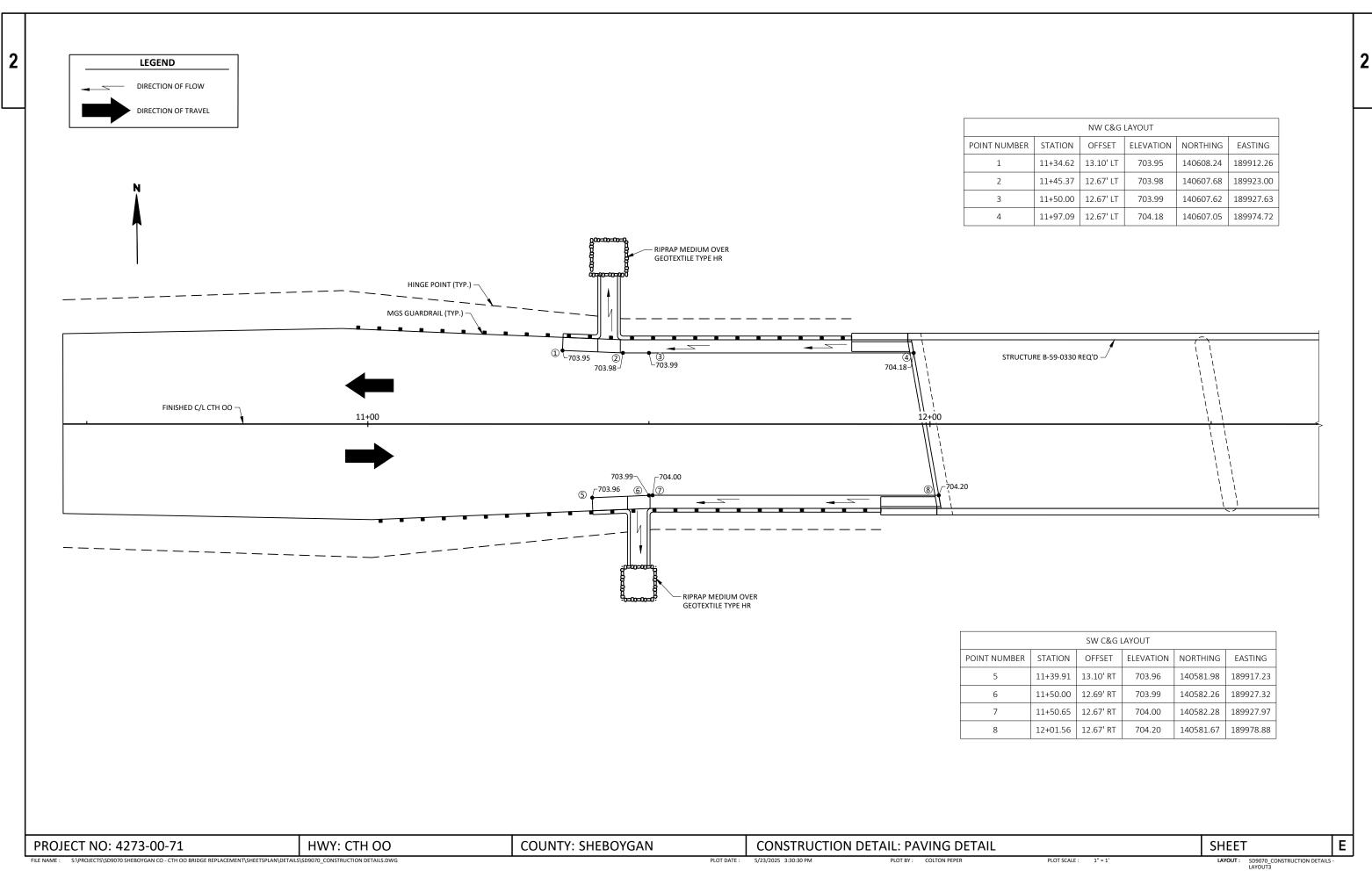
CONSTRUCTION DETAILS SHEET **E**

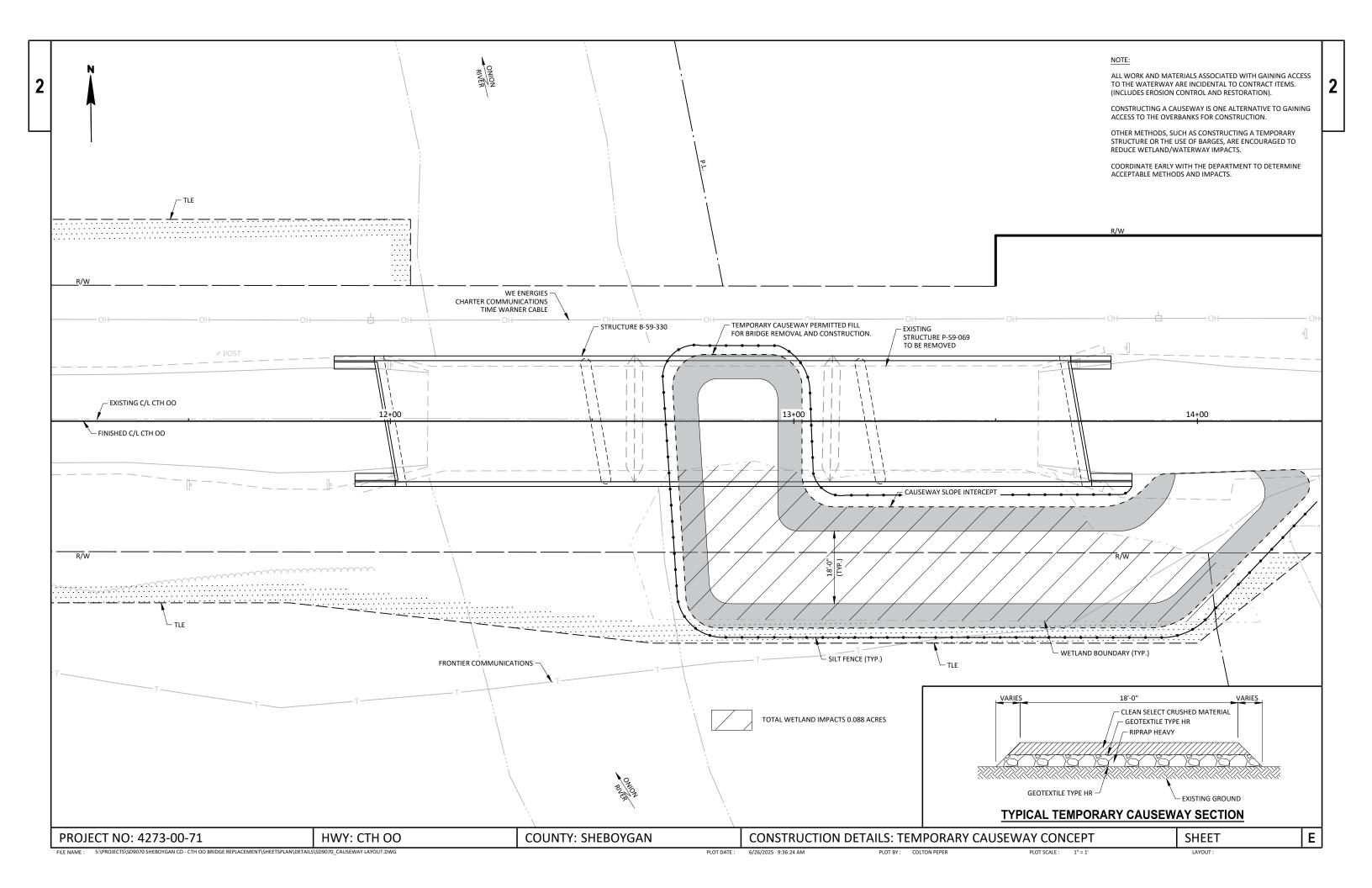
PLOT SCALE: 1" = 1'

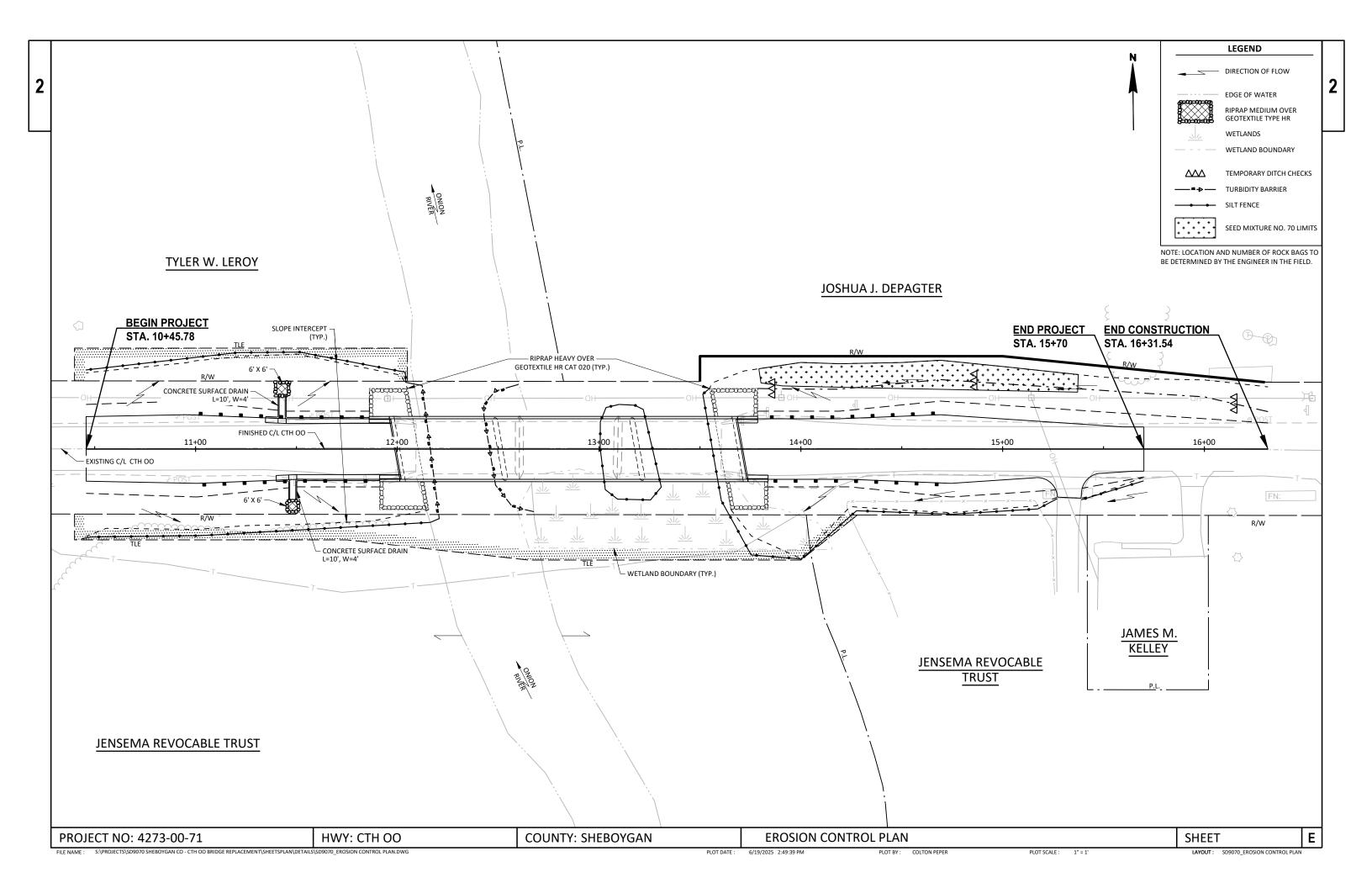
PROJECT NO: 4273-00-71

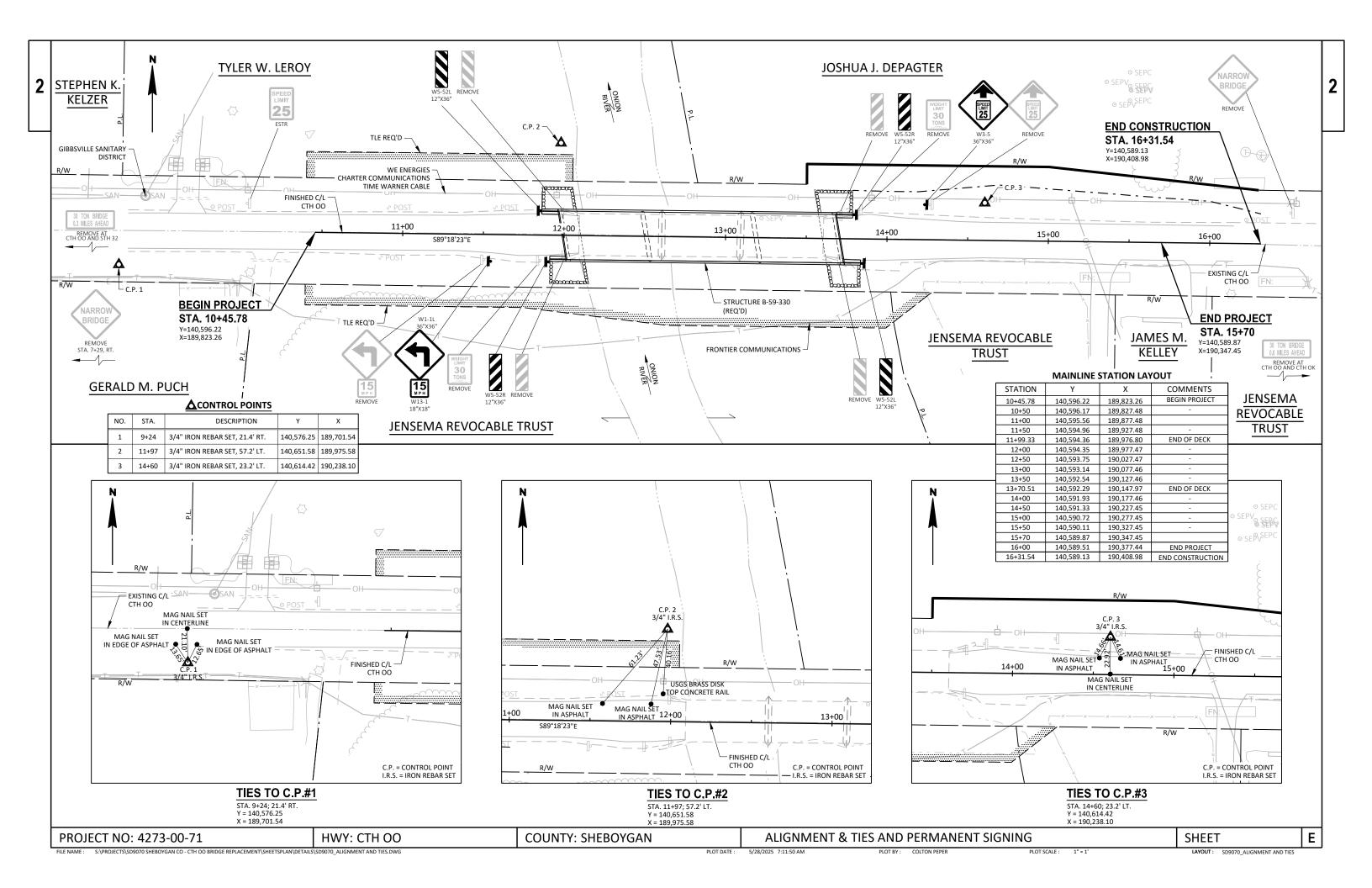
COUNTY: SHEBOYGAN











GENERAL NOTES

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

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

IMMEDIATELY RE-ESTABLISH "STOP" SIGNS THAT

ALL "WO" AND "W" SIGNS SHALL BE 48"X48" UNLESS OTHERWISE NOTE.

ARE REMOVED FOR A CONSTRUCTION OPERATION.

* SIGN READS "BRIDGE OUT 0.1 MILES AHEAD" BRIDGE OUT ** SIGN READS "BRIDGE OUT 2 MILES AHEAD"

BARRICADES TYPE III M1-5A 24"X24" XX MILES AHEAD LOCAL TRAFFIC ONLY R11-3B 60"X30" END DETOUR M4-8A 24"X18" DETOUR M4-9L 30"X24"

LEGEND

DETOUR ROUTE

WORK ZONE

COVER SIGN

SIGN ON PERMANENT SUPPORT

EXISTING SIGN ON SINGLE POST

EXISTING SIGN ON DOUBLE POST

BARRICADES TYPE III WITH ATTACHED

SIGN AND WITH TRAFFIC CONTROL LIGHTS

DETOUR M4-8 24"X12"

MB3-1 24"X12 SOUTH

1 B MO6-1 21"X21" € DETOUR M4-9R 30"X24" M06-1 21"X21" DETOUR NORTH AHEAD MO5-1L 21"X21"

RIVERVIEW RIVER EDGE DR.

DETAIL A

NOTE: SEE SDD 15C2-09A " BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAIL A, B, C, AND D FOR ADDITIONAL TRAFFIC CONTROL AT AND APPROACHING WORK ZONE.

Ε PROJECT NO: 4273-00-71 HWY: CTH OO **COUNTY: SHEBOYGAN CONSTRUCTION DETAILS** SHEET

LIMA

LEARVIEV

SEE DETAIL B

CTH

SEE DETAIL C-

SEE DETAIL D

-SEE DETAIL E

- SEE DETAIL F

Gibbsville

427	3-()	()-	/1

					4273-00-71	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0105	Clearing	STA	4.000	4.000	
0004	201.0205	Grubbing	STA	4.000	4.000	
0006	203.0211.S	Abatement of Asbestos Containing Material (structure) 01. P-59-069	EACH	1.000	1.000	
8000	203.0250	Removing Structure Over Waterway Remove Debris (structure) 01. P-59-069	EACH	1.000	1.000	
0010	204.0110	Removing Asphaltic Surface	SY	620.000	620.000	
0012	204.0180	Removing Delineators and Markers	EACH	3.000	3.000	
0014	205.0100	Excavation Common	CY	500.000	500.000	
0016	206.1001	Excavation for Structures Bridges (structure) 01. B-59-330	EACH	1.000	1.000	
0018	208.0100	Borrow	CY	630.000	630.000	
0020	210.1500	Backfill Structure Type A	TON	250.000	250.000	
0022	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 4273-00-71	EACH	1.000	1.000	
0024	213.0100	Finishing Roadway (project) 01. 4273-00-71	EACH	1.000	1.000	
0026	305.0110	Base Aggregate Dense 3/4-Inch	TON	130.000	130.000	
0028	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,280.000	1,280.000	
0030	455.0605	Tack Coat	GAL	60.000	60.000	
0032	465.0105	Asphaltic Surface	TON	298.000	298.000	
0034	502.0100	Concrete Masonry Bridges	CY	593.000	593.000	
0036	502.3200	Protective Surface Treatment	SY	585.000	585.000	
0038	502.3210	Pigmented Surface Sealer	SY	210.000	210.000	
0040	505.0400	Bar Steel Reinforcement HS Structures	LB	7,190.000	7,190.000	
0042	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	77,920.000	77,920.000	
0044	516.0500	Rubberized Membrane Waterproofing	SY	12.000	12.000	
0046	550.2104	Piling CIP Concrete 10 3/4 X 0.25-Inch	LF	510.000	510.000	
0048	550.2126	Piling CIP Concrete 12 3/4 X 0.375-Inch	LF	1,170.000	1,170.000	
0050	601.0588	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT	LF	126.000	126.000	
0052	602.3010	Concrete Surface Drains	CY	2.000	2.000	
0054	606.0200	Riprap Medium	CY	8.000	8.000	
0056	606.0300	Riprap Heavy	CY	185.000	185.000	
0058	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	150.000	150.000	
0060	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	4.000	
0062	614.2500	MGS Thrie Beam Transition	LF	160.000	160.000	
0064	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000	
0066	619.1000	Mobilization	EACH	1.000	1.000	
0068	624.0100	Water	MGAL	21.000	21.000	
0070	625.0500	Salvaged Topsoil	SY	1,650.000	1,650.000	
0072	627.0200	Mulching	SY	1,650.000	1,650.000	
0074	628.1504	Silt Fence	LF	940.000	940.000	
0076	628.1520	Silt Fence Maintenance	LF	1,880.000	1,880.000	
0078	628.1905	Mobilizations Erosion Control	EACH	6.000	6.000	
0800	628.1910	Mobilizations Emergency Erosion Control	EACH	5.000	5.000	
0082	628.6005	Turbidity Barriers	SY	300.000	300.000	
0084	628.7504	Temporary Ditch Checks	LF	32.000	32.000	
0086	628.7570	Rock Bags	EACH	21.000	21.000	
8800	629.0210	Fertilizer Type B	CWT	2.000	2.000	
0090	630.0120	Seeding Mixture No. 20	LB	90.000	90.000	
0092	630.0160	Seeding Mixture No. 60	LB	2.000	2.000	
0094	630.0170	Seeding Mixture No. 70	LB	1.000	1.000	
0096	630.0200	Seeding Temporary	LB	52.000	52.000	
0098	630.0300	Seeding Borrow Pit	LB	17.000	17.000	

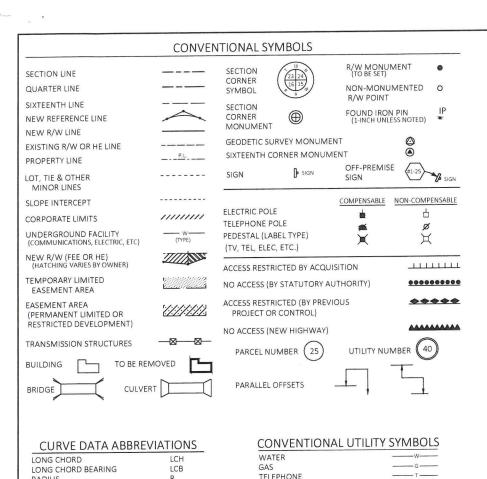
4273-	M۸.	-71

Line	Item	Item Description	Unit	Total	Qty
0100	630.0500	Seed Water	MGAL	64.000	64.000
0102	633.5100	Markers ROW	EACH	7.000	7.000
0104	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	6.000	6.000
0106	637.2230	Signs Type II Reflective F	SF	32.250	32.250
0108	638.2602	Removing Signs Type II	EACH	12.000	12.000
0110	638.3000	Removing Small Sign Supports	EACH	11.000	11.000
0112	642.5001	Field Office Type B	EACH	1.000	1.000
0114	643.0420	Traffic Control Barricades Type III	DAY	2,215.000	2,215.000
0116	643.0705	Traffic Control Warning Lights Type A	DAY	3,445.000	3,445.000
0118	643.0900	Traffic Control Signs	DAY	24,970.000	24,970.000
0120	643.0920	Traffic Control Covering Signs Type II	EACH	18.000	18.000
0122	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0124	643.5000	Traffic Control	EACH	1.000	1.000
0126	645.0111	Geotextile Type DF Schedule A	SY	70.000	70.000
0128	645.0120	Geotextile Type HR	SY	310.000	310.000
0130	646.1020	Marking Line Epoxy 4-Inch	LF	1,710.000	1,710.000
0132	650.4500	Construction Staking Subgrade	LF	355.000	355.000
0134	650.5000	Construction Staking Base	LF	355.000	355.000
0136	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	126.000	126.000
0138	650.6501	Construction Staking Structure Layout (structure) 01. B-59-330	EACH	1.000	1.000
0140	650.9911	Construction Staking Supplemental Control (project) 01. 4273-00-71	EACH	1.000	1.000
0142	650.9920	Construction Staking Slope Stakes	LF	355.000	355.000
0144	690.0150	Sawing Asphalt	LF	56.000	56.000
0146	715.0502	Incentive Strength Concrete Structures	DOL	3,570.000	3,570.000
0148	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 12+85	EACH	1.000	1.000
0150	SPV.0090	Special 01. Parapet Concrete Type 'TX'	LF	385.000	385.000
0152	SPV.0195	Special 01. Select Crushed Material For Travel Corridor	TON	45.000	45.000

	CLEARING AN STATION - STATION 10+45.78 - 14+40 LOCATIO MAINLII	201.0105 201.02 CLEARING GRUBB ON (STA) (STA	ING	STATION - STATIO 10+45.78 - 11+45 14+25 - 15+70	5 MAINLINE 24	CE 110) 0	EMOVING DEL STATION - STATION 10+87 10+91 11+57	LOCATION MAINLINE, RT. MAINLINE, LT. MAINLINE, LT. MAINLINE, LT.	204.0180 (EACH) 1 1	BASE AGGREGATE DENSE 305.0110			ALL ITEMS 010 UNLESS OTHERWISE NOTED	
3	ТОТА	aL= 4 4	EAF	RTHWORK SUN	TOTAL= 62	0		TOTAL=	3	No	OTE: BASE AGGREGATE DENSI STA 15+33, RT. INCLUDE	E 3/4-INCH QUANTITY FOR DE		
	FROM/TO STA	LOCATION	205.01(COMMON EXC CUT (CY)	00 CAVATION AVA MA (C	AILABLE UNEXPANDED ITERIAL FILL CY) (1) (CY)	EXPANDED FILL (CY) FACTOR 1.25 (2)	MASS ORDINATE +/- (CY) (3)	208.0100 BORROW (CY)		STATION - S 10+45.78 - 1		455.0605 465 TACK COAT ASPHALT (GAL) (1	5.0105 TIC SURFACE TON)	
	NOTES: 1.) AVAILABLE MATERIAL=CUT 2.) EXPANDED FILL FACTOR 1.25: E 3.) THE MASS ORDINATE + OR - QT MINUS INDICATES A SHORTAG	EXPANDED FILL = (UNEXPAN TY CALCULATED FOR THE DI	VISION. PLUS QUANTITY IN	,	500 904 500 904 MATERIAL WITHIN THE CATEGO	1,130 1,130	-630 -630	630		13+70.51 - 1 NOTE: ASPHA		60	298	
	STATION - STATION 11+54 - 11+91 11+49 - 11+86 13+79 - 14+16 13+84 - 12+41 TOTALS	AT. 40 LT. 40 LT. 40 RT. 40	614.2610 MGS GUARDRAIL TERMINAL EAT (EACH) 1 1 1 1 4		WATER STATION - STATION 10+45.78 - 15+70 MAINLE TOTA	NE 21		STATION - STATION 10+45.78 - 12+16 10+45.78 - 12+05 13+01 - 13+31 13+65 - 15+27 15+39 - 15+70	LOCATION MAINLINE, RT. MAINLINE, LT. MAINLINE MAINLINE, RT. MAINLINE, RT. UNDISTRIBUTED	628.1504 SILT FENCE (LF) 175 170 130 250 30 185	628.1520 SILT FENCE MAINTENANCE (LF) 350 340 260 500 60 370 1,880	STATION - S 11+35 - 1 11+40 - 1	1+97 MAINLINE,	601.0588 4-INCH SLOPED 36-INCH TYPE TBT N (LF) LT. 63 RT. 63
	10+45.78 - 10+99.33 13+70.51 - 15+70 -	625.0500 SALVAGE TOPSOIL (SY) MAINLINE 610 MAINLINE 710 BORROW PIT NDISTRIBUTED 330 TOTALS = 1,650	D MITCHING	629.0210	630.0120 630.0120 EDING MIXTURE NO. 20 (LB) 40 32 - 18 0.5	TURE SEEDING MIX	XTURE SEEDING	630.0300 SEEDING BORROW PIT (LB) 17	630.0500 SEED WATER (MGAL) - 42 9 13	<u>STATION</u> 11+43 11+48	MAINLINE, LT. 1 MAINLINE, RT. 1		STATION 11+43	PRAP MEDIUM LOCATION (CY) MAINLINE, LT. 4.0 MAINLINE, RT. 4.0 TOTALS = 8.0
	LOCATION WEST BANK EAST BANK UNDISTRIBUTED TOTALS =	ARRIER 628.6005 (SY) 110 130 60 300	TEMI	LOCATION MAINLINE, LT. MAINLINE, LT. MAINLINE, LT. MAINLINE, LT. UNDISTRIBUTED	628.7504 (LF) 8 8 8 8	STATION	LOCATION UNDISTRIBUTED UNDISTRIBUTED UNDISTRIBUTED UNDISTRIBUTED TOTALS =	628.7570 (EACH) 7 7 7 7	PT# STATION 10+40 102 13+50 103 13+50 104 15+00 105 16+30 109 10+40	OFFSET R OFFSET R FINISHEI	633.5100 FROM MARKERS D C/L ROW (EACH) 8 1 1 0 1 0 1 0 1 0 1 0 1 2 1		628.1905 MOBILIZATION NEROSION CONTROL (EACH) 6	ON CONTROL 628.1910 MOBILIZATION EMERGENCY EROSION CONTROL (EACH) 5
┖	PROJECT NO: 4273-00-			CTH OO		COUNTY: SH	IEBOYGAN		MISCELLANEOU 5/19/2025 2:38:45 PM	JS QUANTITIES		PLOT SCALE : 1" = 1'		SHEET E LAYOUT: MISCELLANEOUS QUANTITIES 1

3

			PERN	AANENT SIGNING								ALL ITEMS 010 UNLESS OTHER	RWISE NOTE
APPROX. STATION POSITION	LOCATION	SIGN CODE	SIGN DESCRIPTION	ORDER LINES	SIGN SIZE	634.061: POSTS WOOD 4X INCH X 12: (EACH)	SIGN X6- TYPE I-FT REFLECT	NS REMOV E II SIGN TIVE F TYPE	VING F NS S E II	638.3000 REMOVING MALL SIGN SUPPORTS (EACH)			
	AT STH 32	R12-55	XX TON BRIDGE XX MILES AHEAD	30 TON / 0.3 MILES	48X18	(LACII)				1			
7+29 RIGHT 11+51 RIGHT	MAINLINE MAINLINE	W5-2 W1-1L	NARROW BRIDGE ROAD TURNS LEFT		36X36 36X36					1 1			
11+51 RIGHT	MAINLINE	W13-1	XX MPH	15 MPH	18X18			1					
	MAINLINE MAINLINE	W1-1L W13-1	ROAD TURNS LEFT XX MPH	 15 MPH	36X36 18X18	1	9.0						
11+85 RIGHT	MAINLINE	R12-1	WEIGHT LIMIT XX TONS	30 TONS	24X30	 1	3.0	_		1			
11+85 LEFT 11+90 RIGHT	MAINLINE MAINLINE	W5-52L W5-52R	BRIDGE HASH MARKS BRIDGE HASH MARKS		12X36 12X36	1	3.0						
12+00 LEFT 12+01 RIGHT	MAINLINE MAINLINE	W5-52L W5-52R	BRIDGE HASH MARKS BRIDGE HASH MARKS		12X36 12X36			-		1			
13+69 RIGHT	MAINLINE	W5-52L	BRIDGE HASH MARKS		12X36			1		1			
13+70 LEFT 13+80 LEFT	MAINLINE MAINLINE	W5-52R W5-52R	BRIDGE HASH MARKS BRIDGE HASH MARKS	 	12X36 12X36	 1	3.0	_		1			
13+82 LEFT	MAINLINE MAINLINE	R12-1	WEIGHT LIMIT XX TONS	30 TONS	24X30			-		1			
13+85 RIGHT 14+23 LEFT	MAINLINE	W5-52L W3-5	BRIDGE HASH MARKS SPEED REDUCTION AHEAD XX MPH	 25 MPH	12X36 36X36	1 1	3.0 9.0						
14+26 LEFT 16+50 LEFT	MAINLINE MAINLINE	W3-5 W5-2	SPEED REDUCTION AHEAD XX MPH NARROW BRIDGE	25 MPH 	36X36 36X36		 	-		1 1			
	AT CTH OK	R12-55	XX TON BRIDGE XX MILES AHEAD	30 TON / 0.6 MILES	48X18			-		1			
					TOTALS =	6	32.2	25 12		11			
GEOTEXTILE TYPE HR STATION LOCATION (SY) 11+43 MAINLINE, LT. 5.0 11+48 MAINLINE, RT. 5.0 TOTALS = 10.0 NOTE: ADDITIONAL QUANTITIES LISTED ELSEWHERE		-	Columbia	SIGNS TYPE II (EACH) 24,970 18 24,970 18		643.5000 TRAFFIC CONTROL (EACH) 1		10 10	NATION - STATION 1+45.78 - 15+70 1+45.78 - 15+70	COCATION MAINLINE MAINLINE MAINLINE	DESCRIPTION WHITE EDGELINE C/L SOLID YELLOW C/L DASHED YELLOW TOTAL =	646.1020 (LF) 1050 525 135	
SAWING ASPHALT 690.0150 STATION LOCATION (LF) 10+45.78 MAINLINE 22				ATION -STATION LOCATIOI)+45.78 - 11+99 MAINLIN	650.4500 SUBGRADE	650.5000	650.5500 CURB GUTTER AND CURB & GUTTER (LF)	*650.6501 STRUCTURE LAYOUT (B-59-0330) (EACH)	650.9911 SUPPLEMENTAL CONTROL (4273-00-71) (EACH)	650.9920 SLOPES STAKES (LF) 155	-		
15+33 P.E., RT. 12 15+70 MAINLINE 22				13+71 - 15+70 MAINLIN		200	-	-	-	200			
- manual 22				4273-00-71 PROJECT			-	1	1		_		
TOTAL = 56				TOTAL =	355	355	126	1	1	355			
				*CATEGORY	020								
	1												



NOTES

DEGREE OF CURVE

LENGTH OF CURVE

DIRECTION AHEAD

DIRECTION BACK

CENTRAL ANGLE

TANGENT

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, SHEBOYGAN COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

OVERHEAD TRANSMISSION LINES

____ SAN ____

 \boxtimes

CARLE TELEVISION

SANITARY SEWER

STORM SEWER

FLECTRIC TOWER

FIBER OPTIC

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 MONUMENTS (TYPICALLY ¾ X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

△/DELTA

DA

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD."

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE SHEBOYGAN COUNTY HIGHWAY DEPARTMENT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

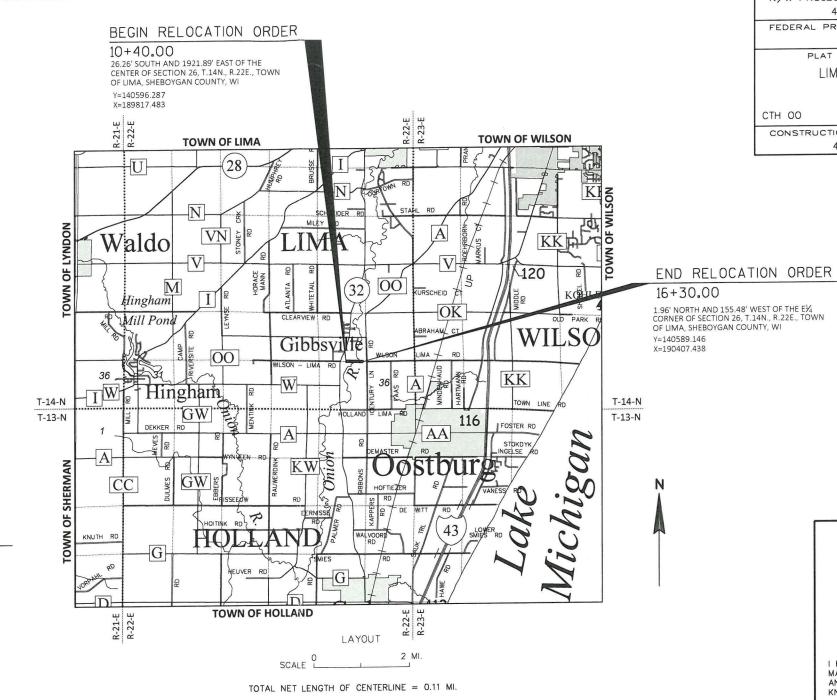
DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

THIS PLAT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSE ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES AND ACCESS RIGHTS.

TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLES) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT HEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

ROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING ROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD



CONVENTIONAL ABBREVIATIONS

	CONVI	-INTIONAL ABBRETIA					
ACCESS RIGHTS ACRES AHEAD ALUMINUM AND OTHERS BACK BLOCK CENTERLINE CERTIFIED SURVEY MAP CONCRETE COUNTY COUNTY TRUNK HIGHWAY DISTANCE CORNER DOCUMENT NUMBER	AR AC AH ALUM ET AL BK BLK C/L CSM CONC CO CTH DIST COR DOC	EXISTING GAS VALVE GRID NORTH HIGHWAY EASEMENT IDENTIFICATION LAND CONTRACT LEFT MONUMENT NATIONAL GEODETIC SURVEY NUMBER OUTLOT PAGE POINT OF TANGENCY PERMANENT LIMITED EASEMENT	EX GV GN HE ID LC LT MON NGS NO OL P PT PLE	POINT OF COMPOUND CURVE POINT OF INTERSECTION PROPERTY LINE RECORDED AS REEL / IMAGE REFERENCE LINE REMAINING RESTRICTIVE DEVELOPMENT EASEMENT RIGHT RIGHT OF WAY SECTION SEPTIC VENT SQUARE FEET STATE TRUNK HIGHWAY	PCC PI PL (100') R/I R/L REM RDE RT R/W SEC SEPV SF STH	TEMPORARY LIMITED EASEMENT TRANSPORTATION PROJECT PLAT UNITED STATES HIGHWAY VOLUME	TLE TPP USH V REVISION DATE
	DOC EASE	EASEMENT POINT OF BEGINNING POINT OF CURVATURE	POB PC	STATE TRUNK HIGHWAY STATION TELEPHONE PEDESTAL	STH STA TP		

SHEBOYGAN COUNTY

D

3.0

0

R/W PROJECT NUMBER

CTH 00

FEDERAL PROJECT NUMBER

4273-00-00

CONSTRUCTION PROJECT NUMBER

4273-00-71

PLAT OF RIGHT-OF-WAY REQUIRED FOR

LIMA SHEBOYGAN FALLS

(ONION RIVER BRIDGE)

SHEET TOTAL NUMBER SHEET

SHEBOYGAN COUNTY

NI JUNDO

m_C CLERK

2

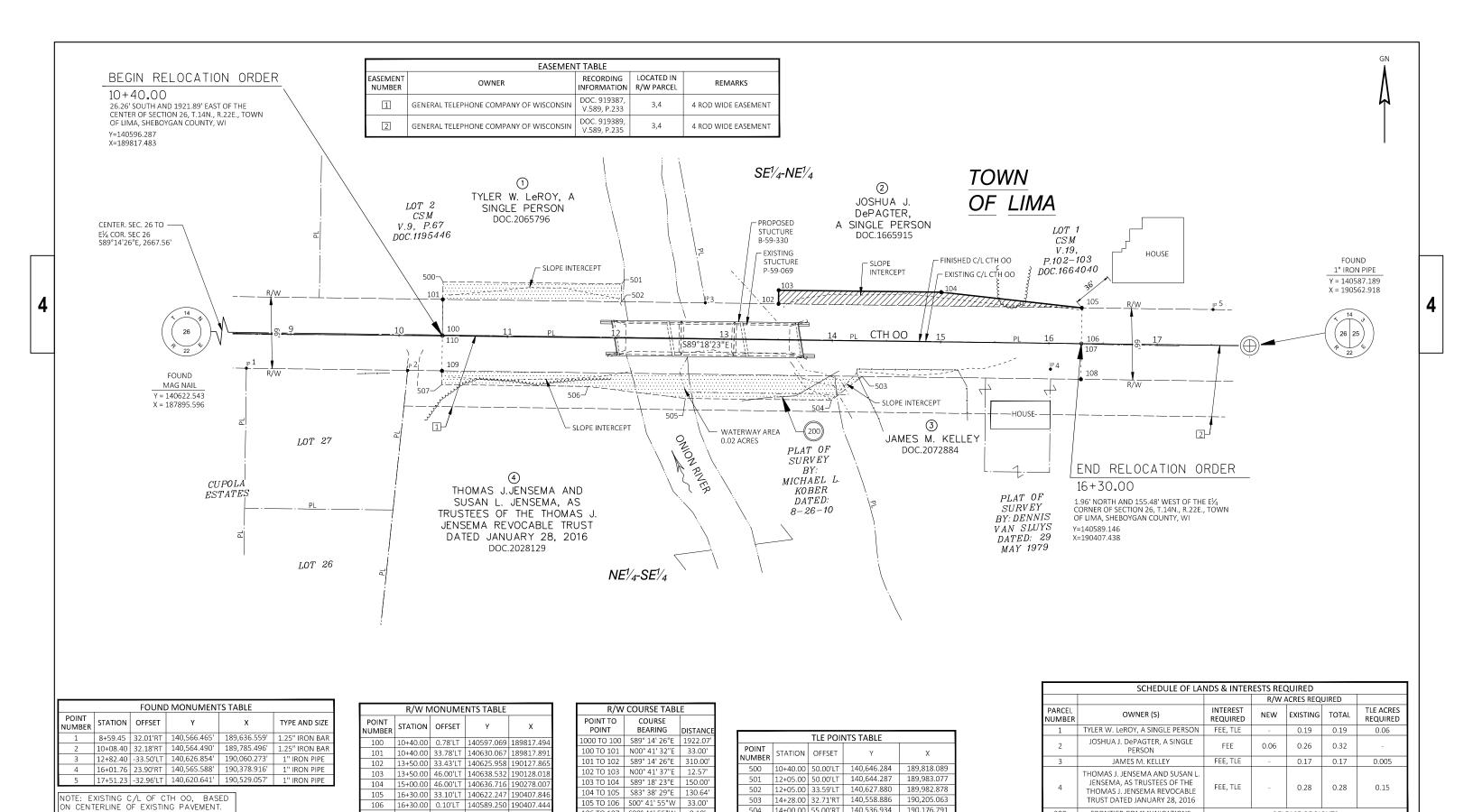
560 SUNRISE DRIVE

SPRING GREEN, WI 53588 PHONE: 608.588.7484 www.jewellssoc.com

I HEREBY CERTIFY THAT THIS PLAT WAS MADE FOR SHEBOYGAN COUNTY, WISCONSIN AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SCONSINIII NOAH E. ANLIKER 5 326/5 CAZENCUM WISCONSIN NOSURVE WO SURVE WITH ATE: 01-15-2025

APPROVED FOR SHEBOYGAN COUNTY



AND WIS. STATUTE 82.31(2).	110 10+40.00 0.00'RT 140596.287 189817.483	109 TO 110 N00° 41' 32"E 110 TO 100 N00° 41' 32"E	32.22' 507 10+40.00 45.00'RT 140,55	1.291 189,816.939 CON	TIGUOUS TO THE AREA TO BE ACQUIRED. OWNER Y AND ARE SUBJECT TO CHANGE PRIOR TO THE TI	R'S NAMES ARE SHOWN FOR REFERENCE	E PURPOSES
REVISION DATE	DATE 1/15/2025	SCALE, FEET	HWY: CTH OO	STATE R/W PROJECT NUMBER	4273-00-00	PLAT SHEET	4.02
	GRID FACTOR	0 40 80	COUNTY: SHEBOYGAN	CONSTRUCTION PROJECT NUMBER	4273-00-71	PS&E SHEET	E

504 | 14+00.00 | 55.00'RT | 140,536.934 | 190,176.791

505 | 12+65.00 | 55.00'RT | 140,538.568 | 190,041.801

140,549.657

189,951.929

11+75.00 45.00'RT

.05 TO 106 S00° 41' 55"W 33.00'

106 TO 107 S00° 41' 55"W 0.10'

107 TO 108 S00° 41' 55"W 32.90'

108 TO 109 N89° 14' 26"W 590.00'

16+30.00 0.10'LT 140589.250 190407.444

10+40.00 32.22'RT 140564.072 189817.094

107 | 16+30.00 | 0.00'RT | 140589.146 | 190407.443

108 | 16+30.00 | 32.90'RT | 140556.252 | 190407.042

EXISTING RIGHT-OF-WAY FOR CTH OO.

BASED ON THE QUARTERLINE OF SECTION

OF DREVIOUS COM AND DEAT OF SURVEYS

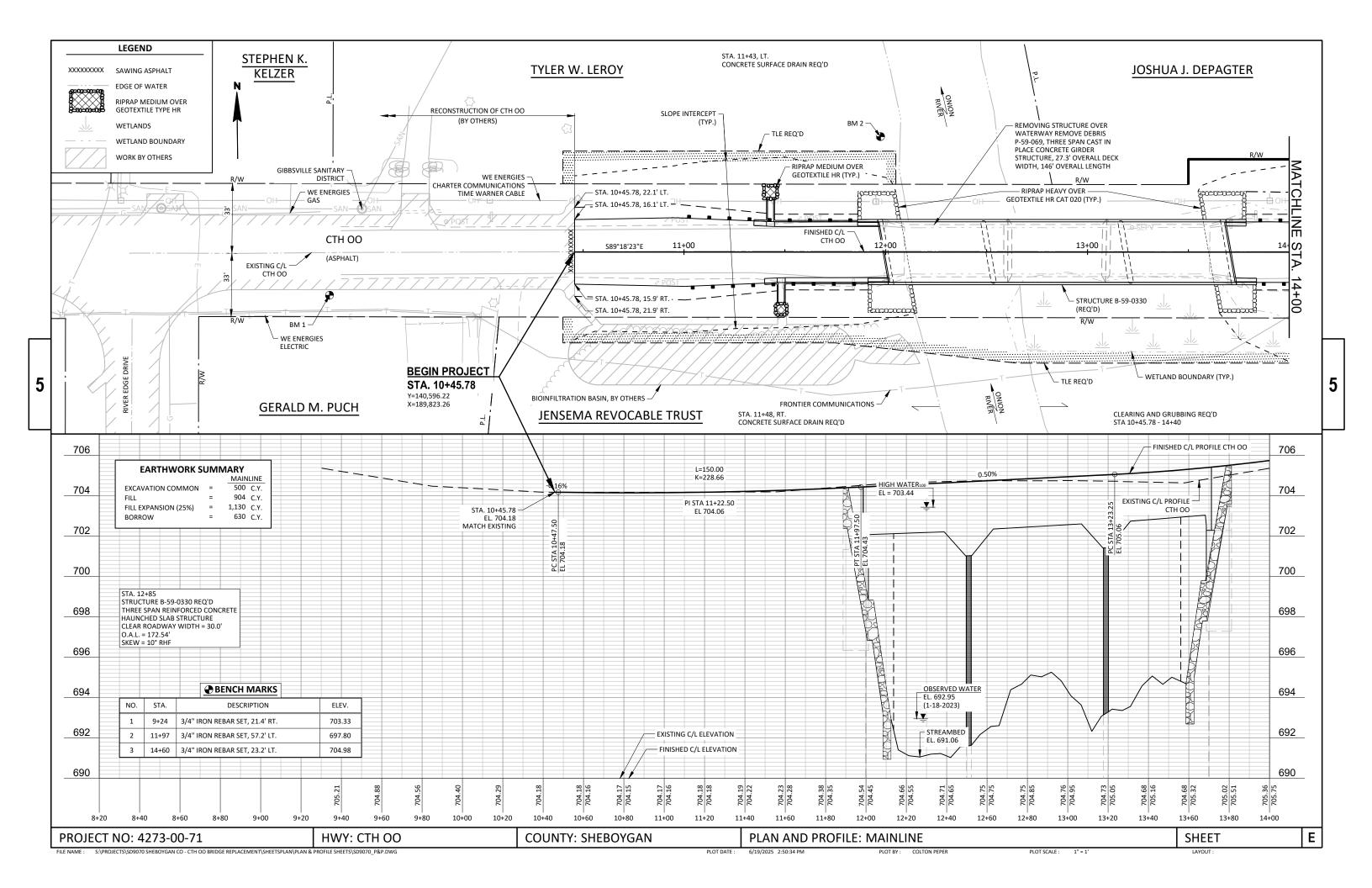
SD9070_CTH OO_PLAT.DWG 1/15/2025 7:46 AM ANLIKER, NOAH PLOT NAME PLOT SCALE : FILE NAME : PLOT BY: LAYOUT NAME - Lavout1

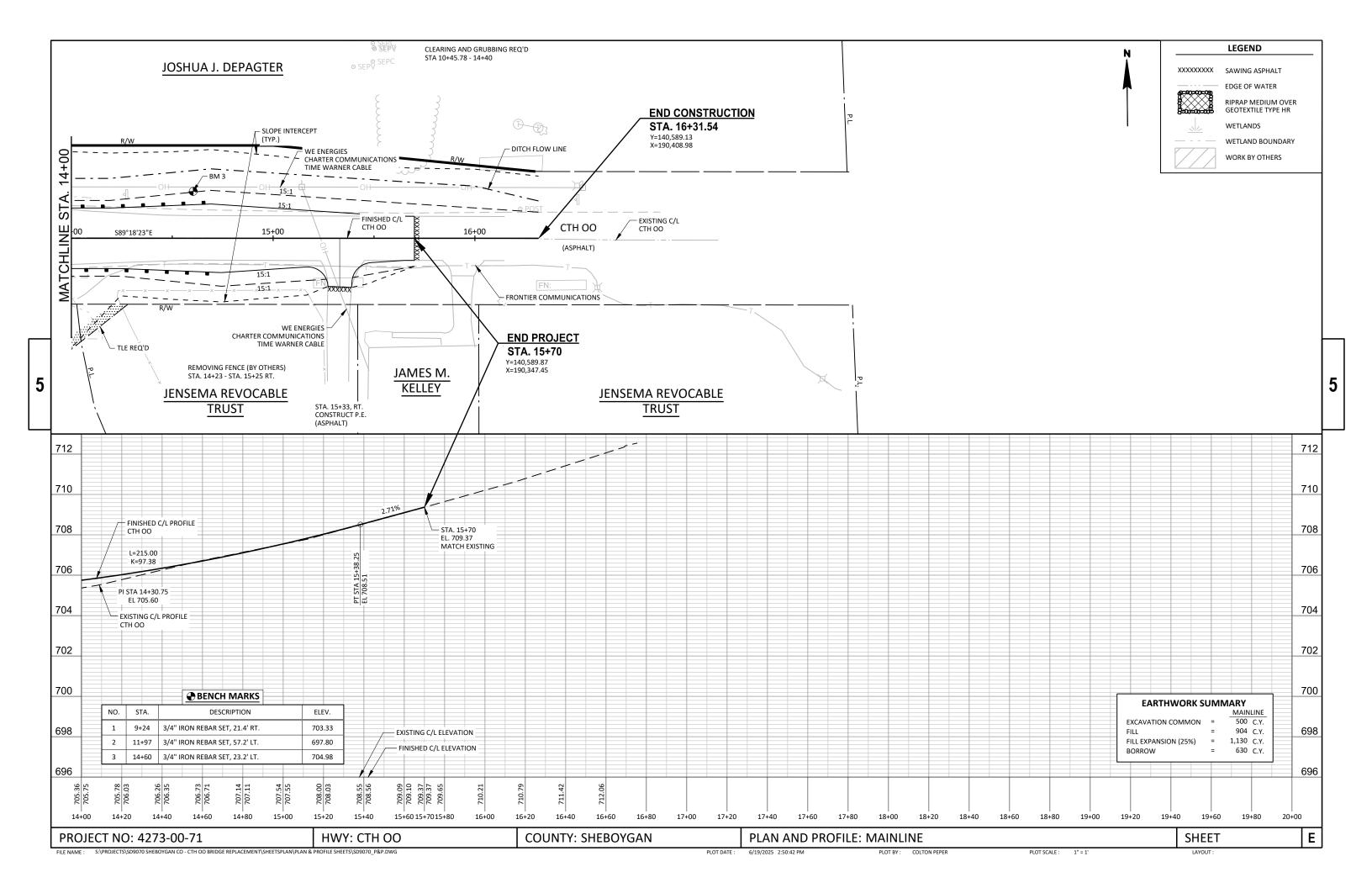
WISDOT/CADDS SHEET 75

RELEASE OF RIGHTS

FRONTIER COMMUNICATIONS

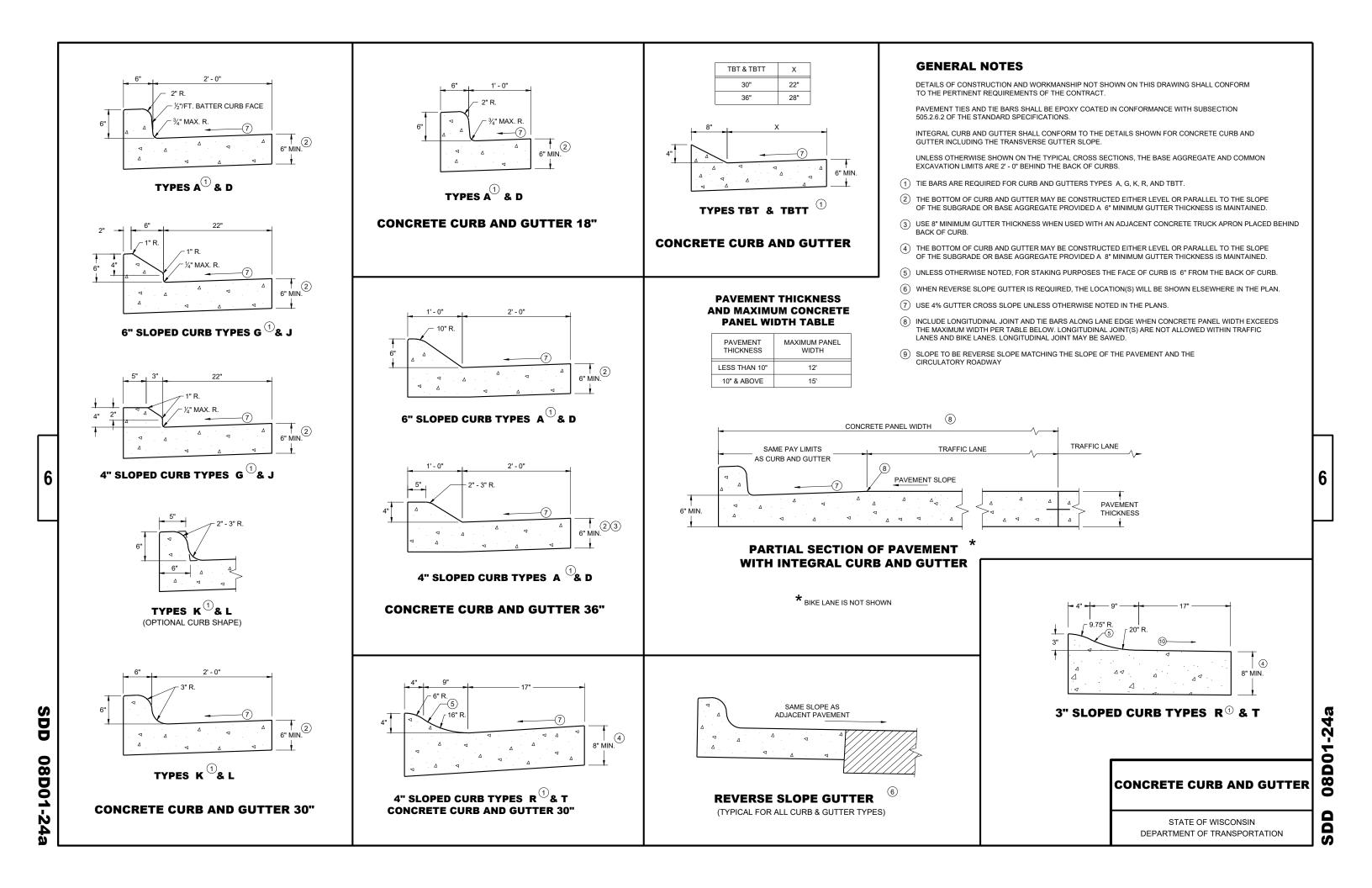
NOTE: AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM THE

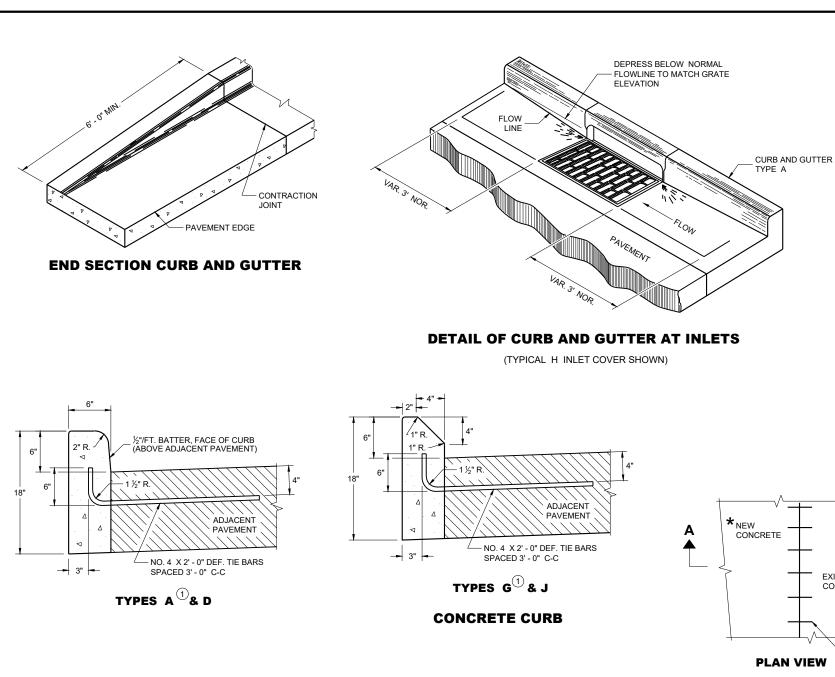


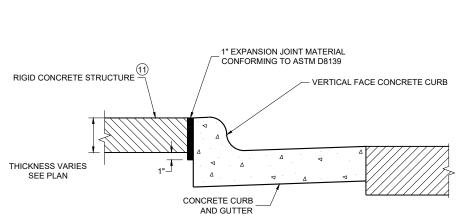


Standard Detail Drawing List

08D01-24A	CONCRETE CURB & GUTTER
08D01-24B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D02-08A	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-08B	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-08C	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
13C19-03	HMA LONGITUDINAL JOINTS
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14в42-07в	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14в44-04в	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14в45-05в	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A01-13A	MARKER POST FOR RIGHT-OF-WAY
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15С02-09в	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15С11-10в	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS







DD

08D01-24b

EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE 119

CONCRETE **EXISTING** CONCRETE * NEW CURB AND GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE. **PLAN VIEW** NO. 6 TIE BARS SPACED 2' - 6" C-C, INSTALLED PERPENDICULAR TO THE CONCRETE MAXIMUM DRILL HOLE SIZE IS 1/8" GREATER THAN TIE BAR DIAMETER 1/2 THICKNESS OF_ NEW CONCRETE **EXISTING**

TIE BARS DRILLED
INTO EXISTING PAVEMENT

SECTION A - A

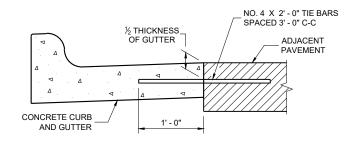
GENERAL NOTES

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

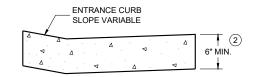
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

AND CURB AND GUTTER APPLICATIONS

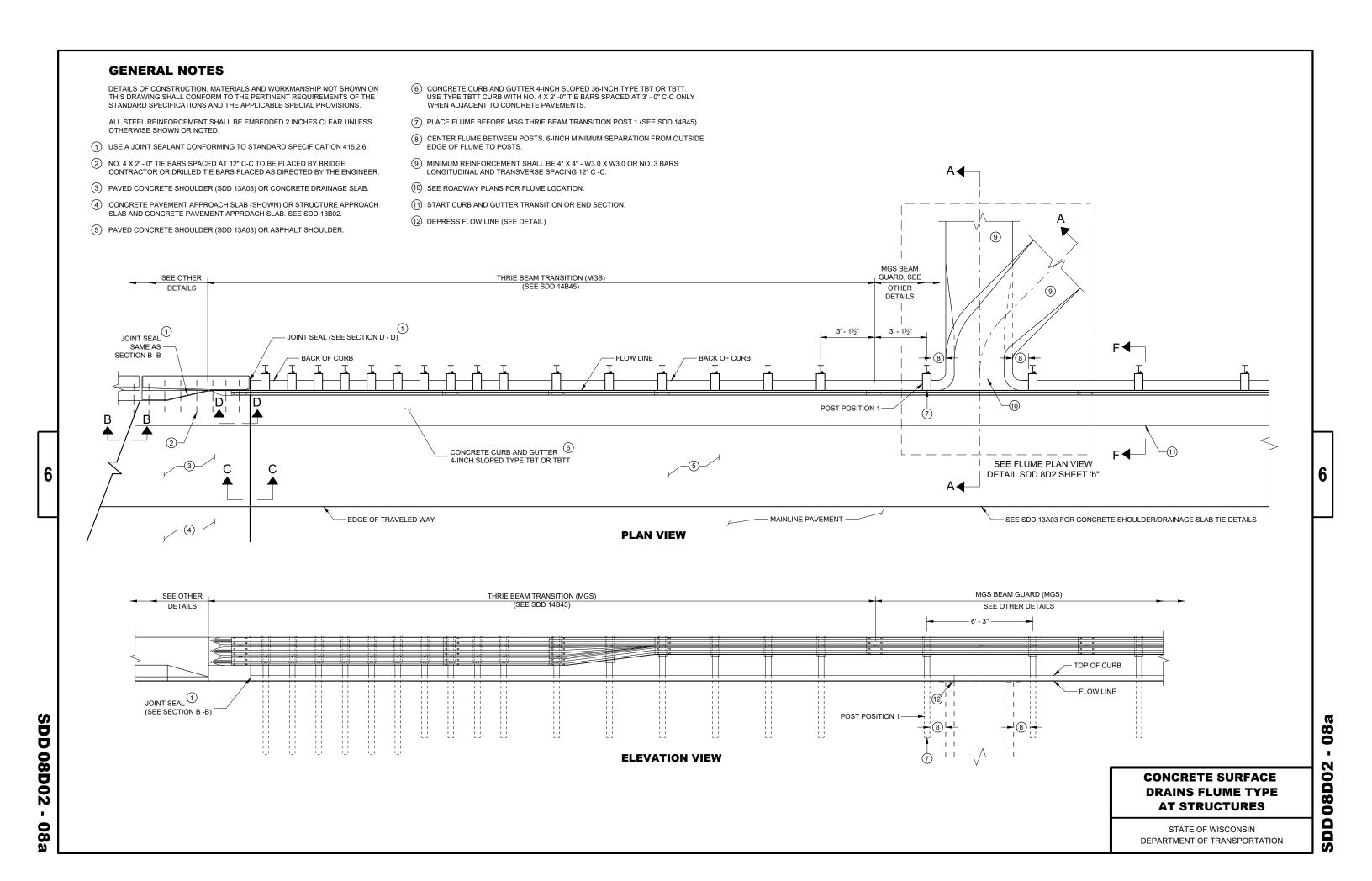
 APPROVED
 /S/ Rodnery Taylor

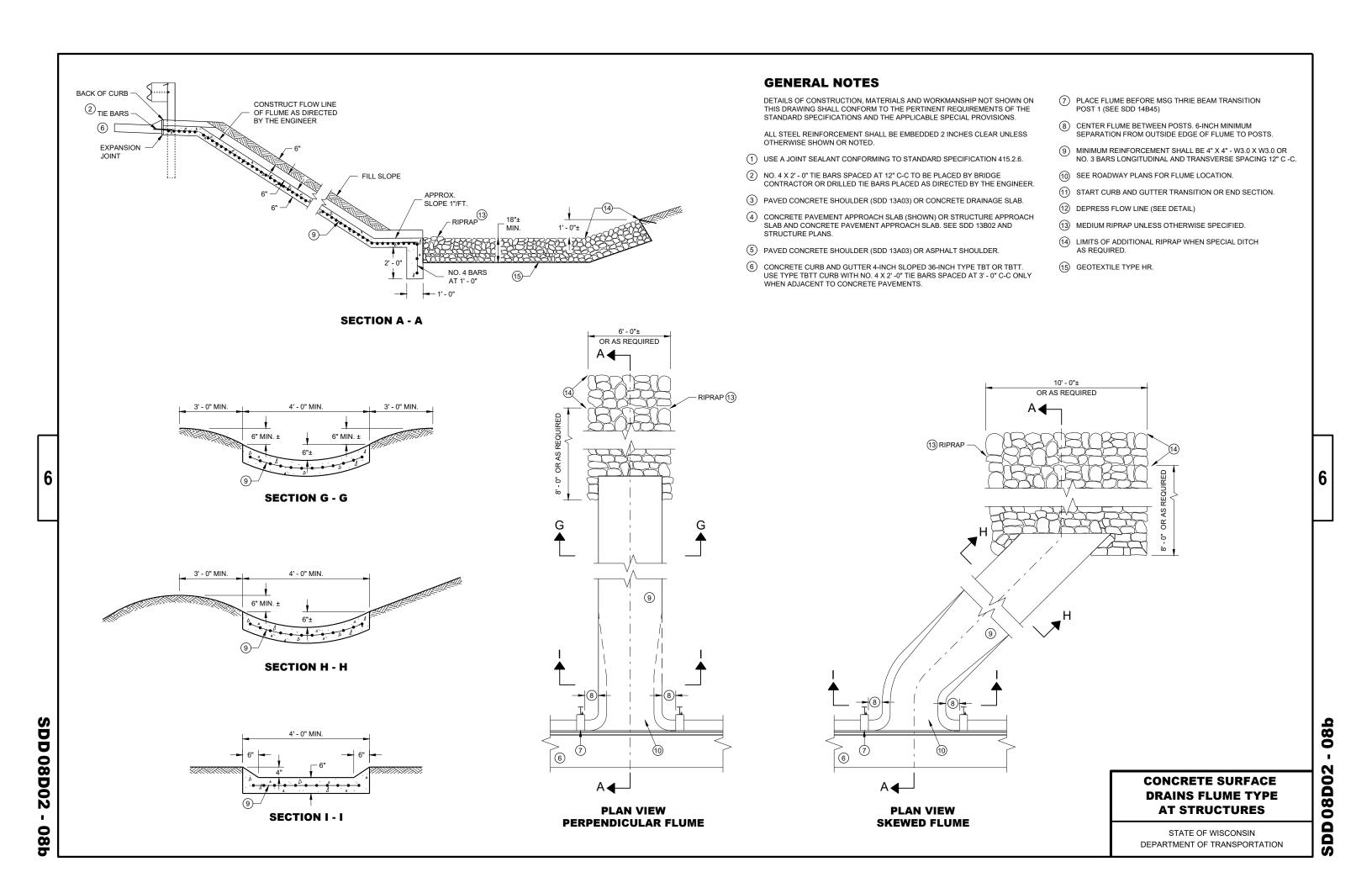
 February 2025
 /S/ Rodnery Taylor

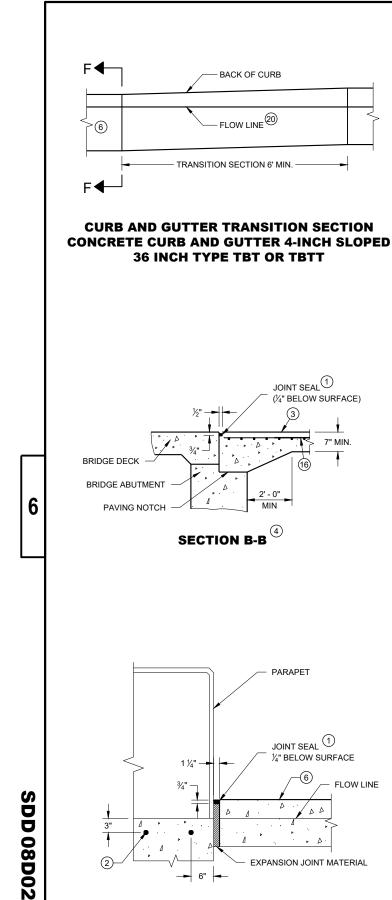
 DATE
 ROADWAY STANDARDS DEVELOPMENT

 UNIT SUPERVISOR

DD 08D01-24b

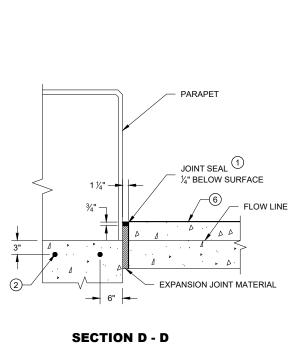






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SECTION B-B

BACK OF CURB

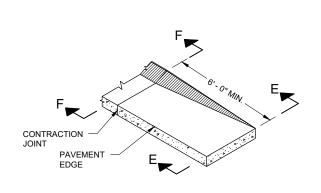
FLOW LINE 20

JOINT SEAL 1

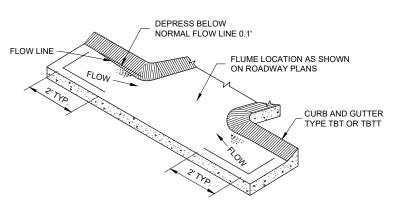
(1/4" BELOW SURFACE)

7" MIN.

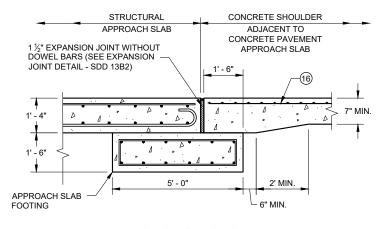
TRANSITION SECTION 6' MIN.



CURB AND GUTTER END SECTION CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT



CURB AND GUTTER FLOW LINE DEPRESSION AT FLUMES CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT

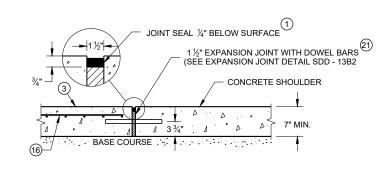


SECTION C - C JOINT DETAIL FOR BRIDGE WITH STRUCTURAL APPROACH SLAB AND CONCRETE APPROACH SLAB

FINISHED

SHOULDER

6" MIN



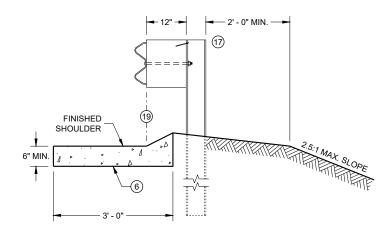
SECTION C - C JOINT DETAIL FOR BRIDGE APPROACH WITH CONCRETE SHOULDERS

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.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS

- (1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.
- (2) NO. 4 X 2' 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.
- (3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.
- (4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.
- (5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.
- (6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2'-0" TIE BARS SPACED AT 3'-0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.
- 7 PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)
- 8 CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.
- 9 MINIMUM REINFORCEMENT SHALL BE 4" X 4" W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.
- (10) SEE ROADWAY PLANS FOR FLUME LOCATION.
- (11) START CURB AND GUTTER TRANSITION OR END SECTION.
- (12) DEPRESS FLOW LINE (SEE DETAIL)
- (13) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.
- (14) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.
- (15) GEOTEXTILE TYPE HR.
- (16) MINIMUM REINFORCEMENT SHALL BE 6" X 6" W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C - C.
- (7) MSG THRIE BEAM TRANSITION POST 1. SEE SDD 14B45 FOR ADDITIONAL CONSTRUCTION DETAILS AND ACCEPTABLE MATERIALS.
- (18) MAINTAIN WIDTH, THICKNESS AND CROSS SLOPE OF ADJACENT TYPE TBT OR TBTT CURB. SEE NOTE 6 FOR TIE BAR SPACING.
- (19) ALIGN FACE OF POST BLOCK WITH FLOW LINE.
- 20 MAINTAIN FLOW LINE AT EDGE OF PAVEMENT/FACE OF BEAM GUARD AS APPLICABLE.
- (21) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING HMA PAVEMENTS.



SECTION F - F

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE /S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT ENGINEER

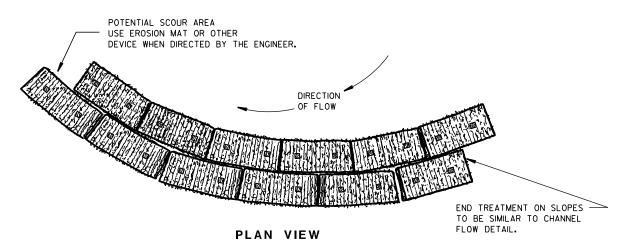
SECTION E - E

2' - 0" MIN. —

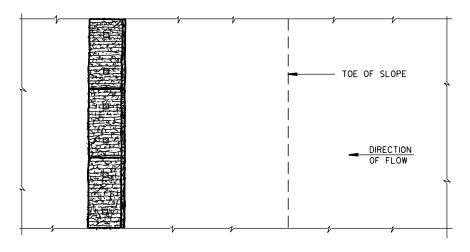
GENERAL NOTES

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

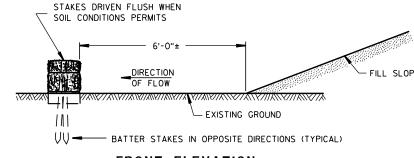
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

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



TRENCH DETAIL



SILT FENCE TIE BACK

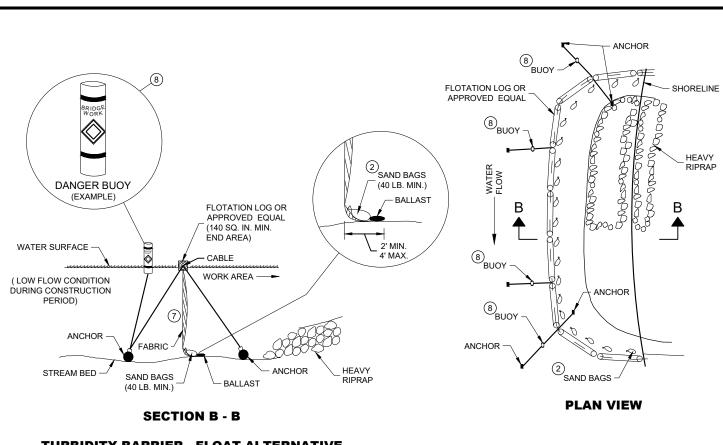
(WHEN REQUIRED BY THE ENGINEER)



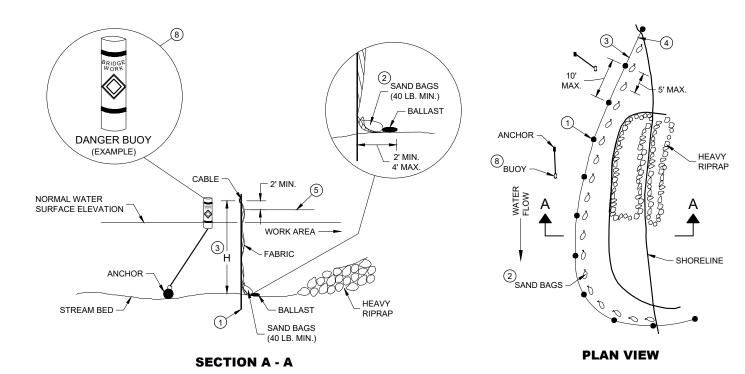
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D.D. 8 E 9-6



TURBIDITY BARRIER - FLOAT ALTERNATIVE CAUTION - SEE NOTE 6



TURBIDITY BARRIER - STANDARD POST INSTALLATION

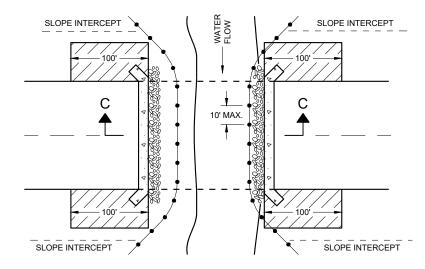
TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

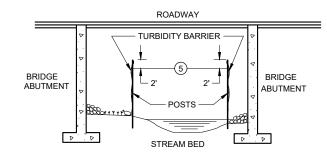
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

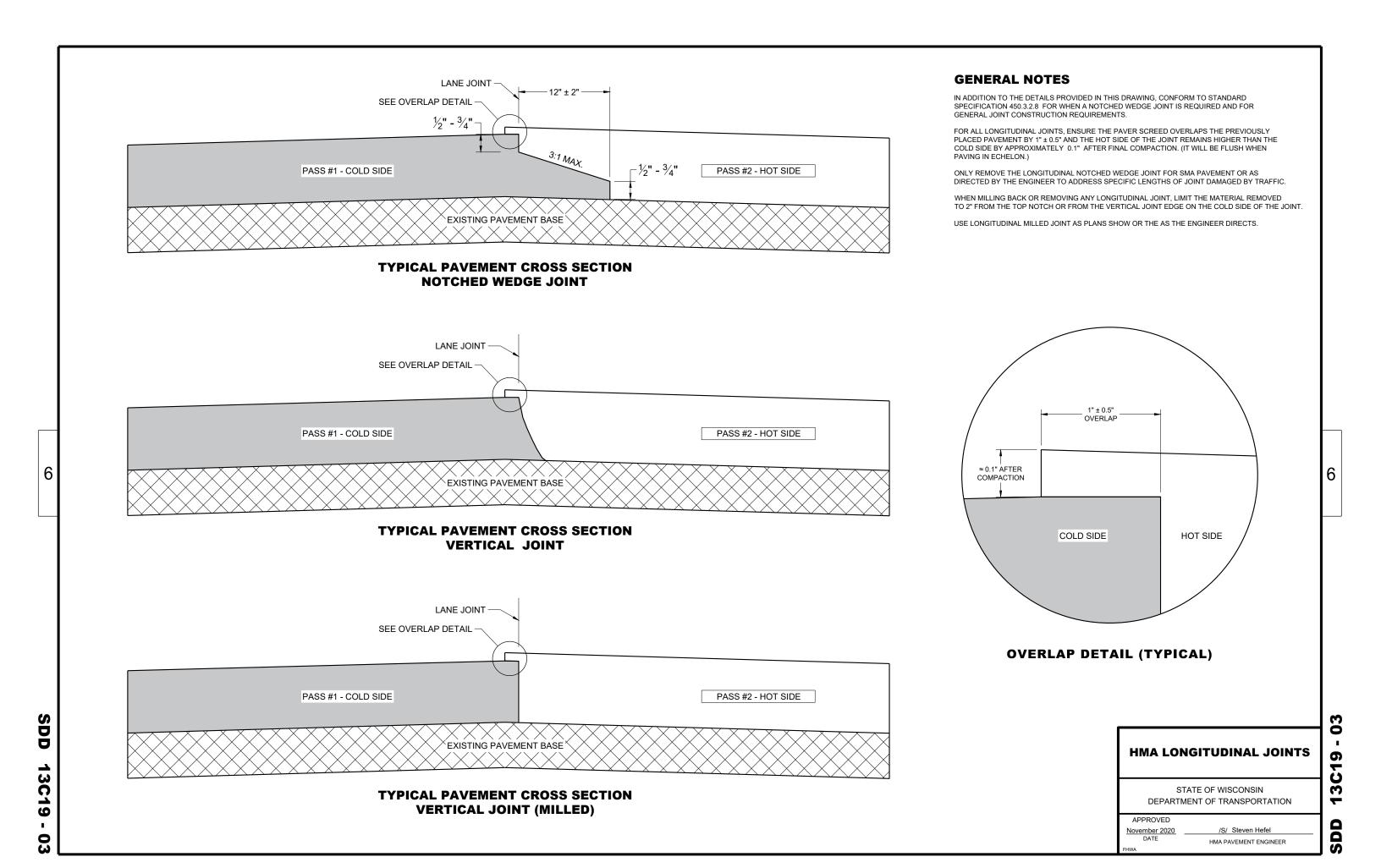
APPROVED

3/26/IO /S/ Scot Becker

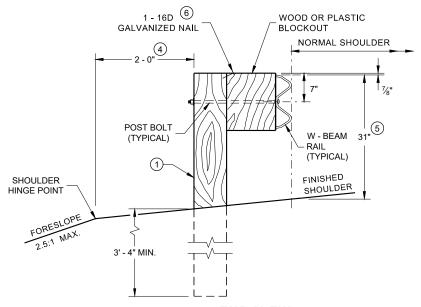
DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

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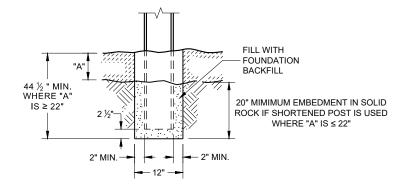
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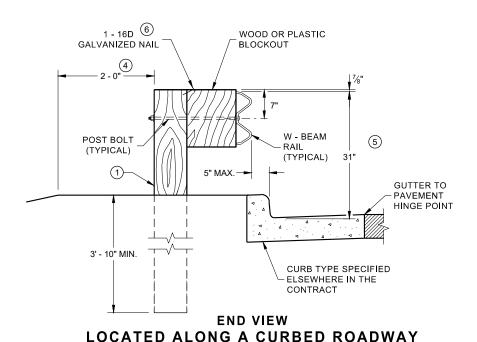
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- 4 WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- $\fill \ensuremath{\texttt{5}}$ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS \$\pm1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 % " TO 32".
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.
- \bigcirc TOTAL POST LENGTH FOR TYPE K IS 7' 0". TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' 0".

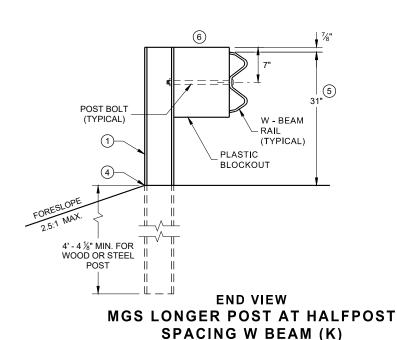


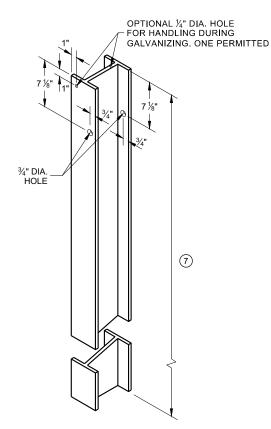
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



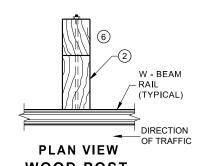
SETTING STEEL OR WOOD POST IN ROCK



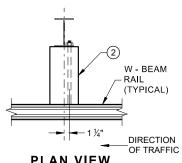




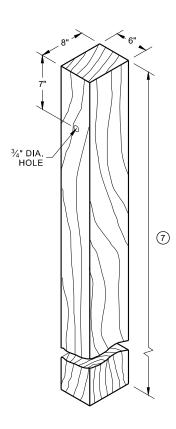
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



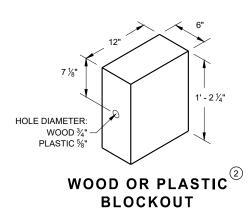
PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

FRONT VIEW HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

3' 1½" C -C 3' 1½" C - C POST SPACING POST SPACING

6' 3" C - C

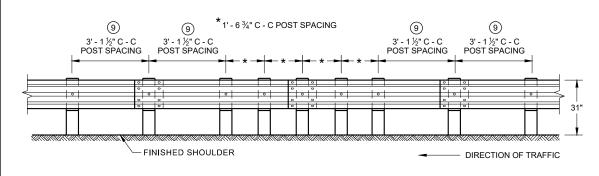
POST SPACING

DIRECTION OF TRAFFIC

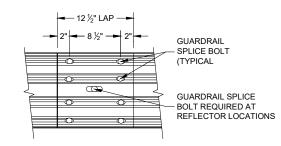
6' - 3" C -C

POST SPACING

FINISHED SHOULDER



FRONT VIEW
QUARTER POST SPACING (QS)



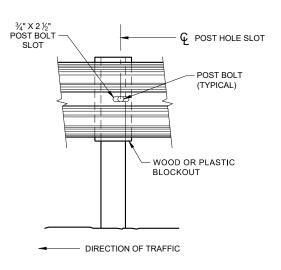
FRONT VIEW
MID-SPAN BEAM SPLICE

GENERAL NOTES

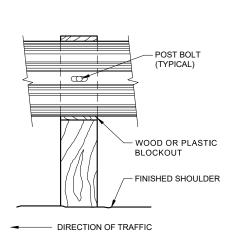
- 8 DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- (9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

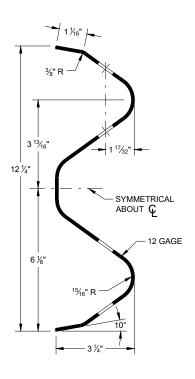
GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



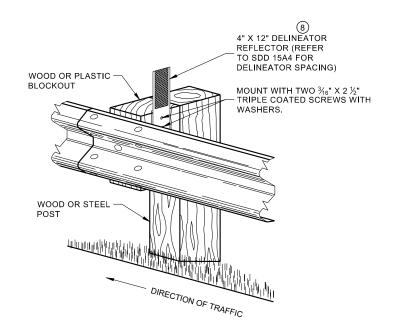
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

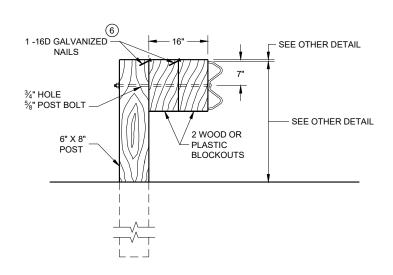
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SDD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

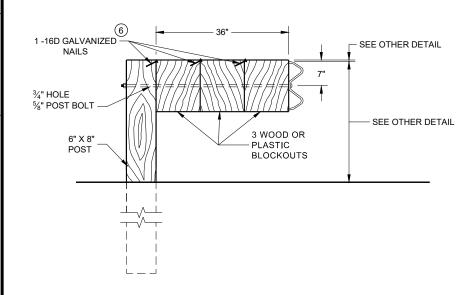
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DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



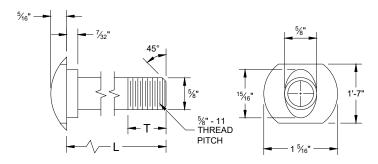
DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

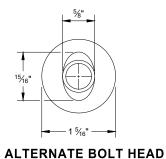
NOTE:

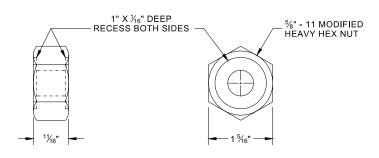
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



POST BOLT TABLE

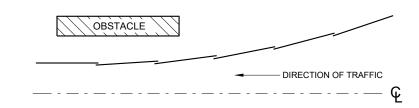
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



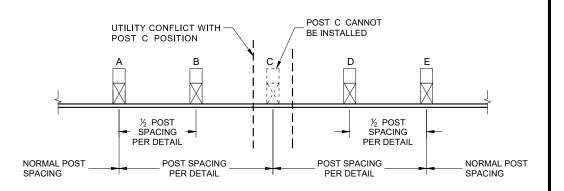


POST BOLT, SPLICE BOLT **AND RECESS NUT**

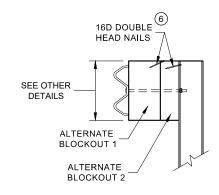
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D (6) GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

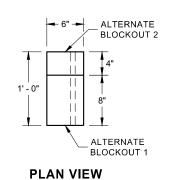


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

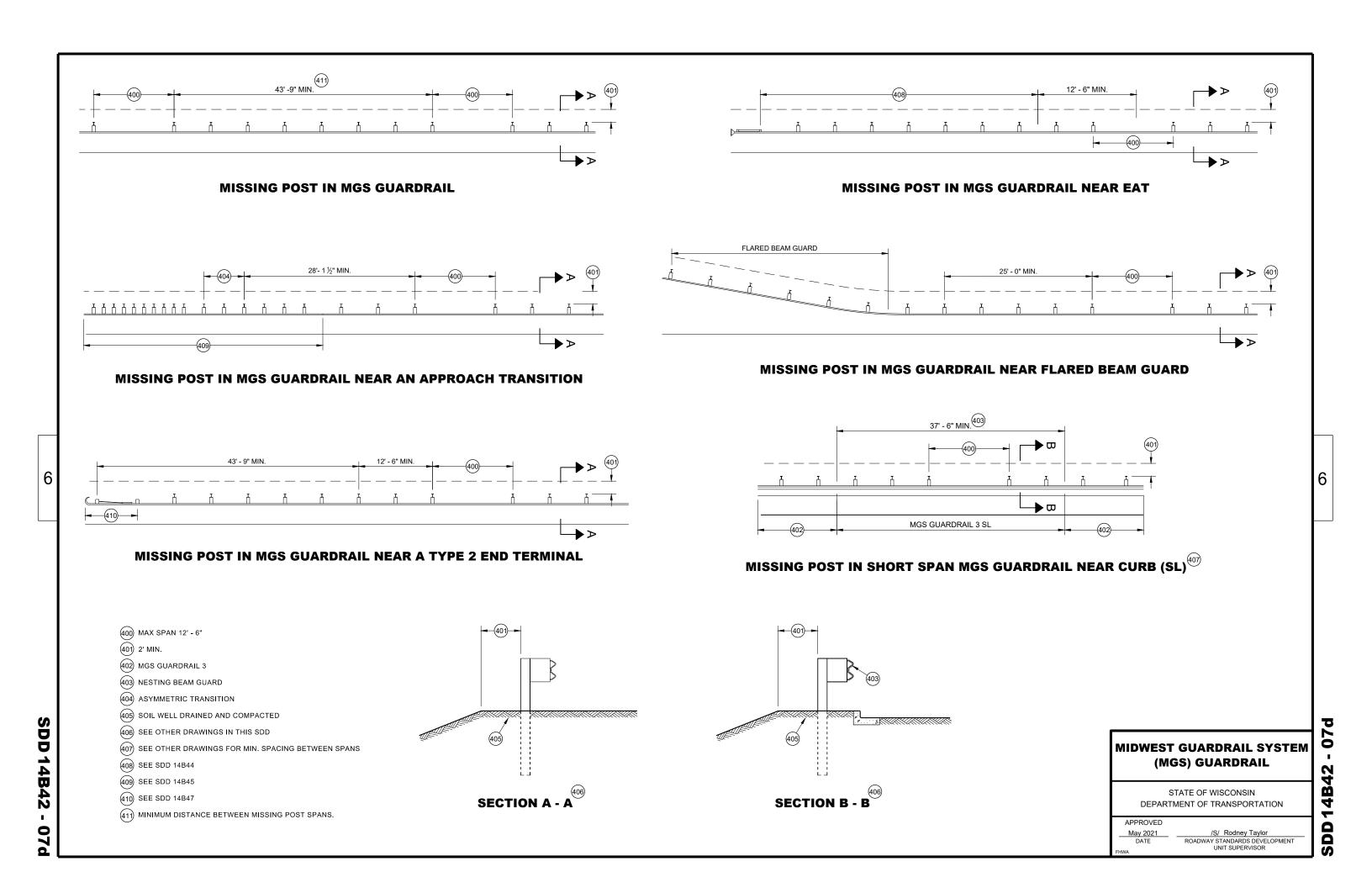
ALTERNATE WOOD BLOCKOUT DETAIL

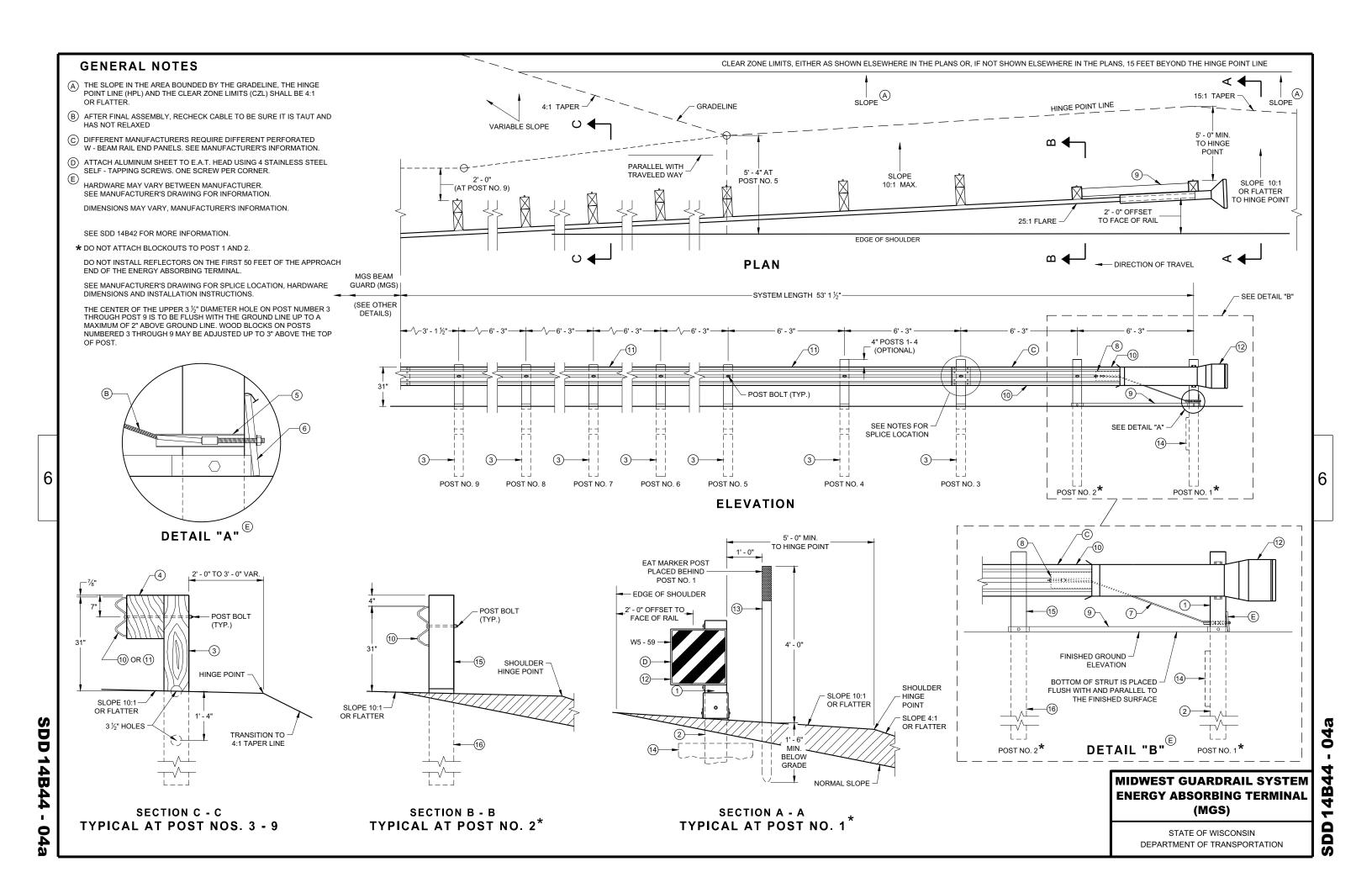
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

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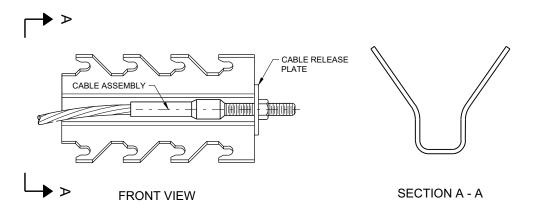
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

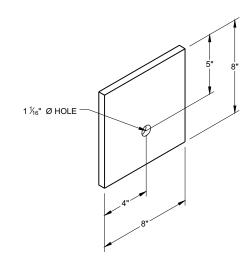




GENERIC GROUND STRUT



GENERIC ANCHOR CABLE BOX ^{(9) (E)}



BEARING PLATE

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

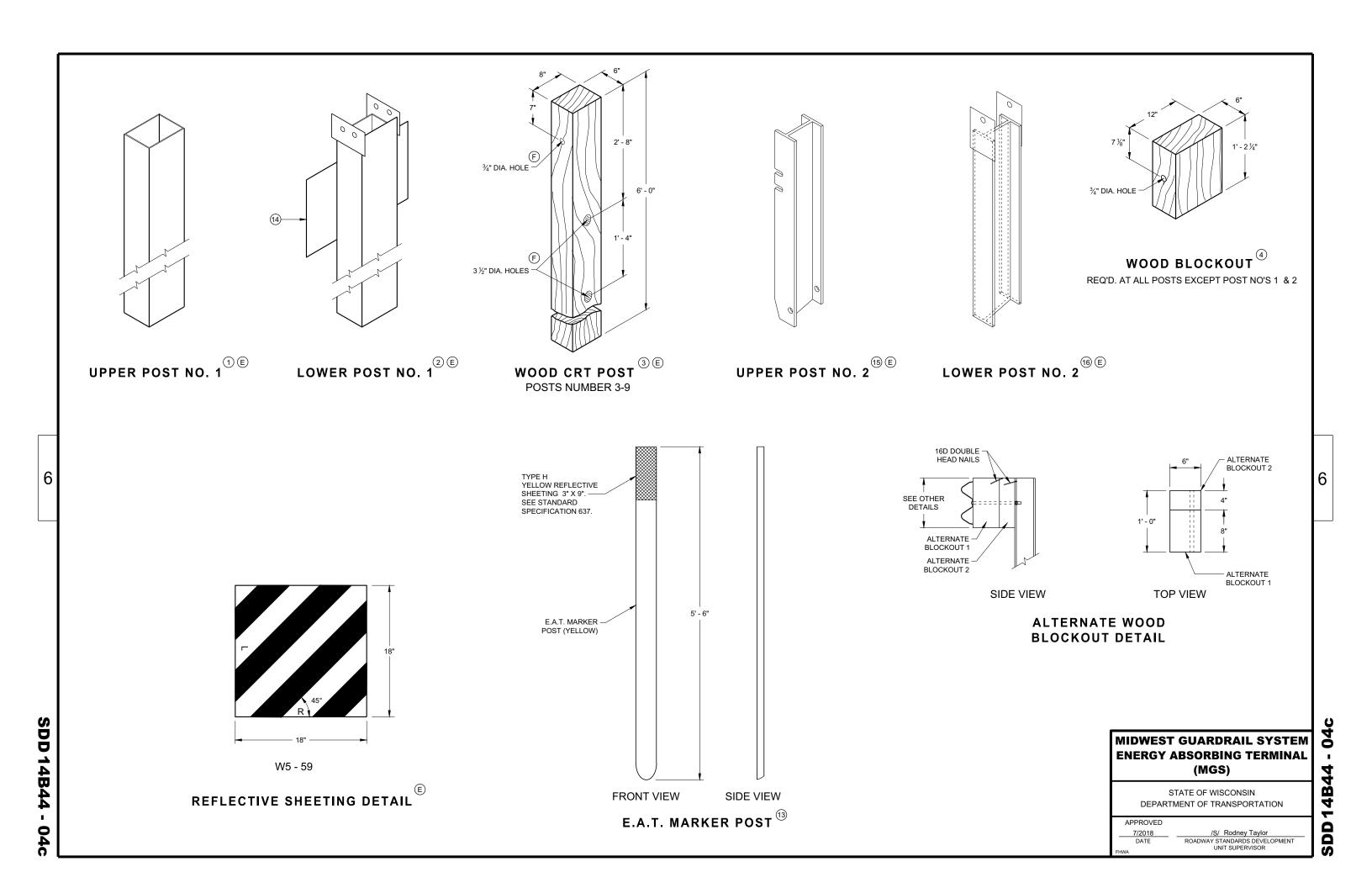
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

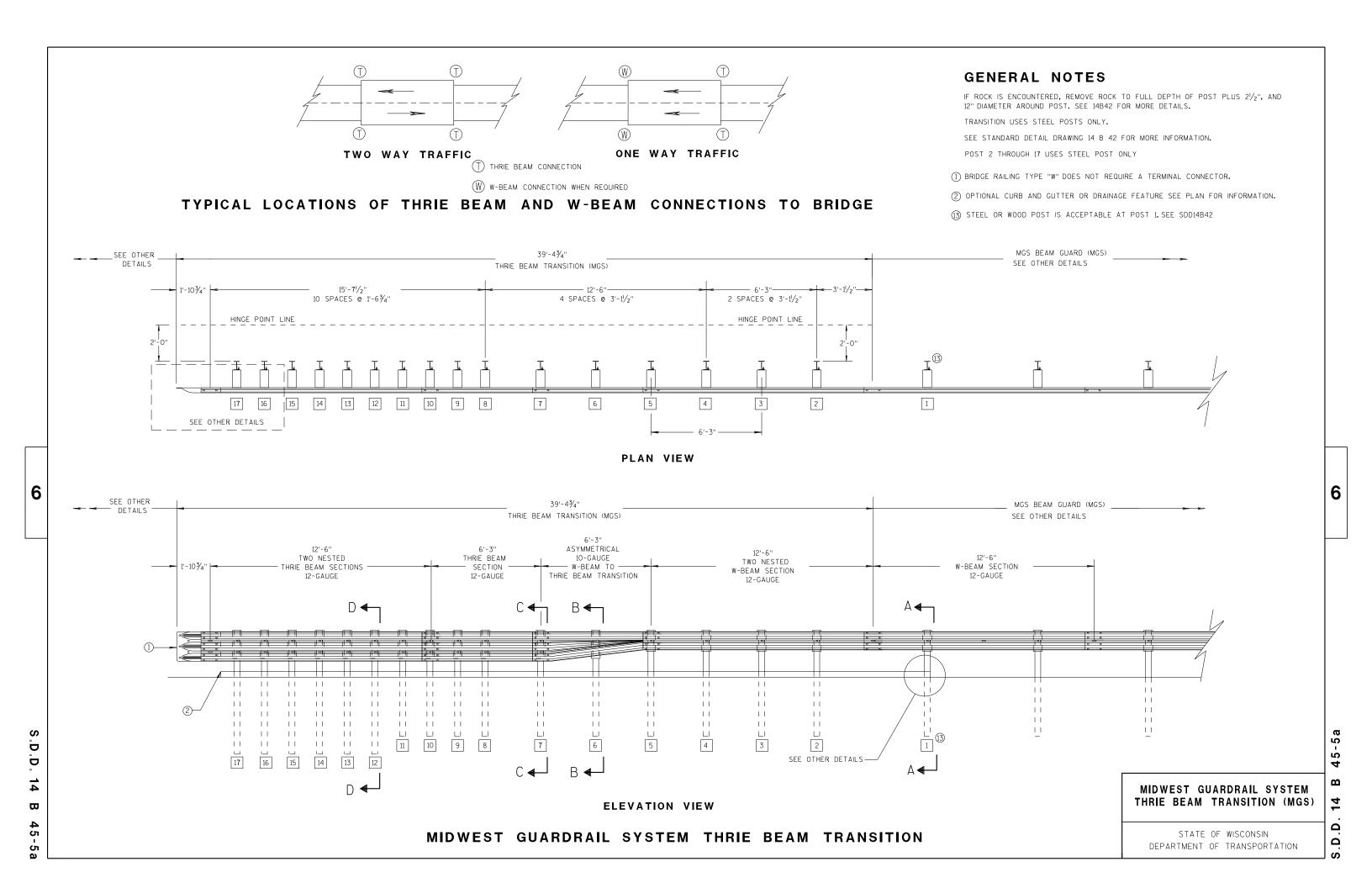
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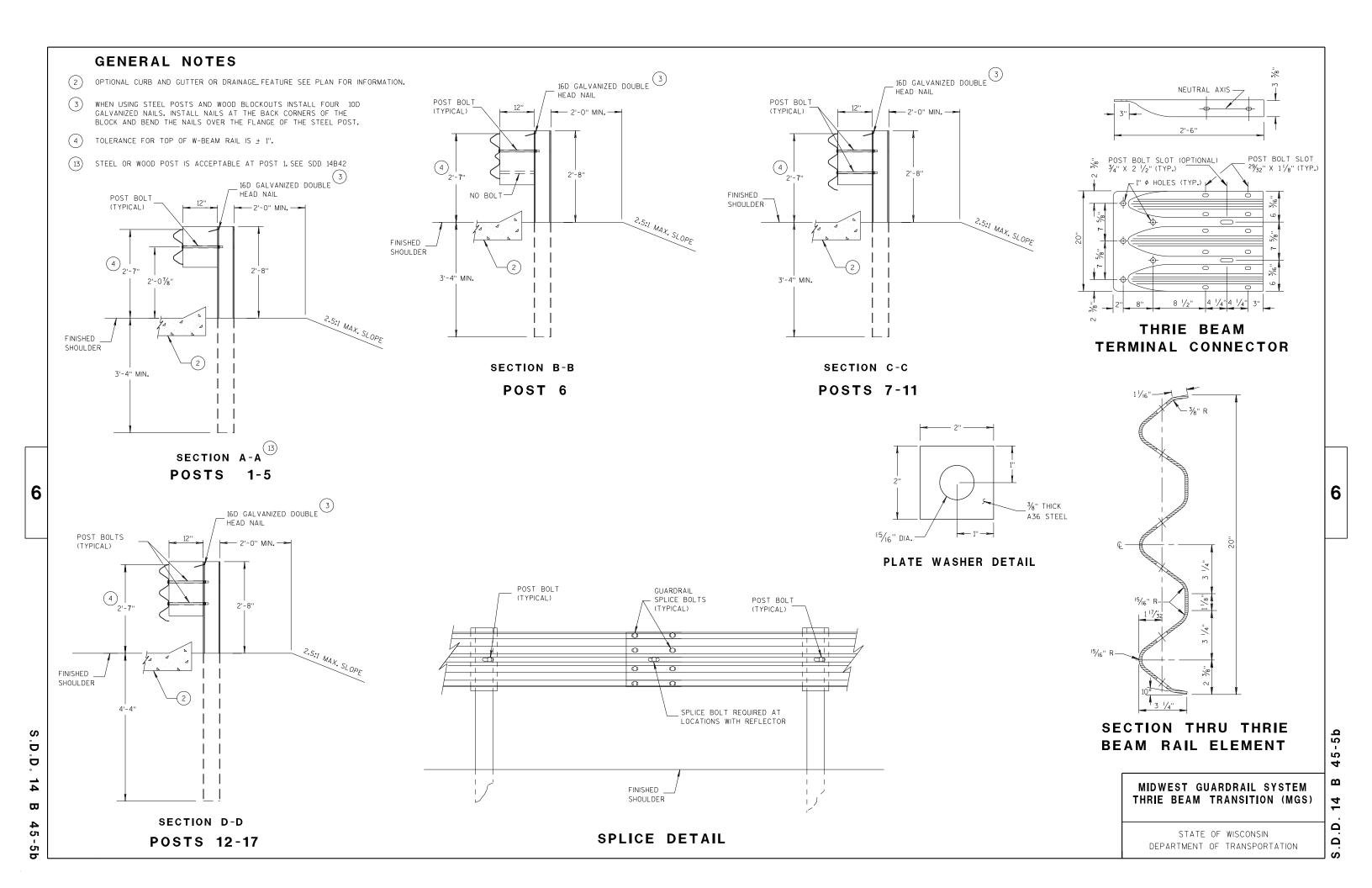
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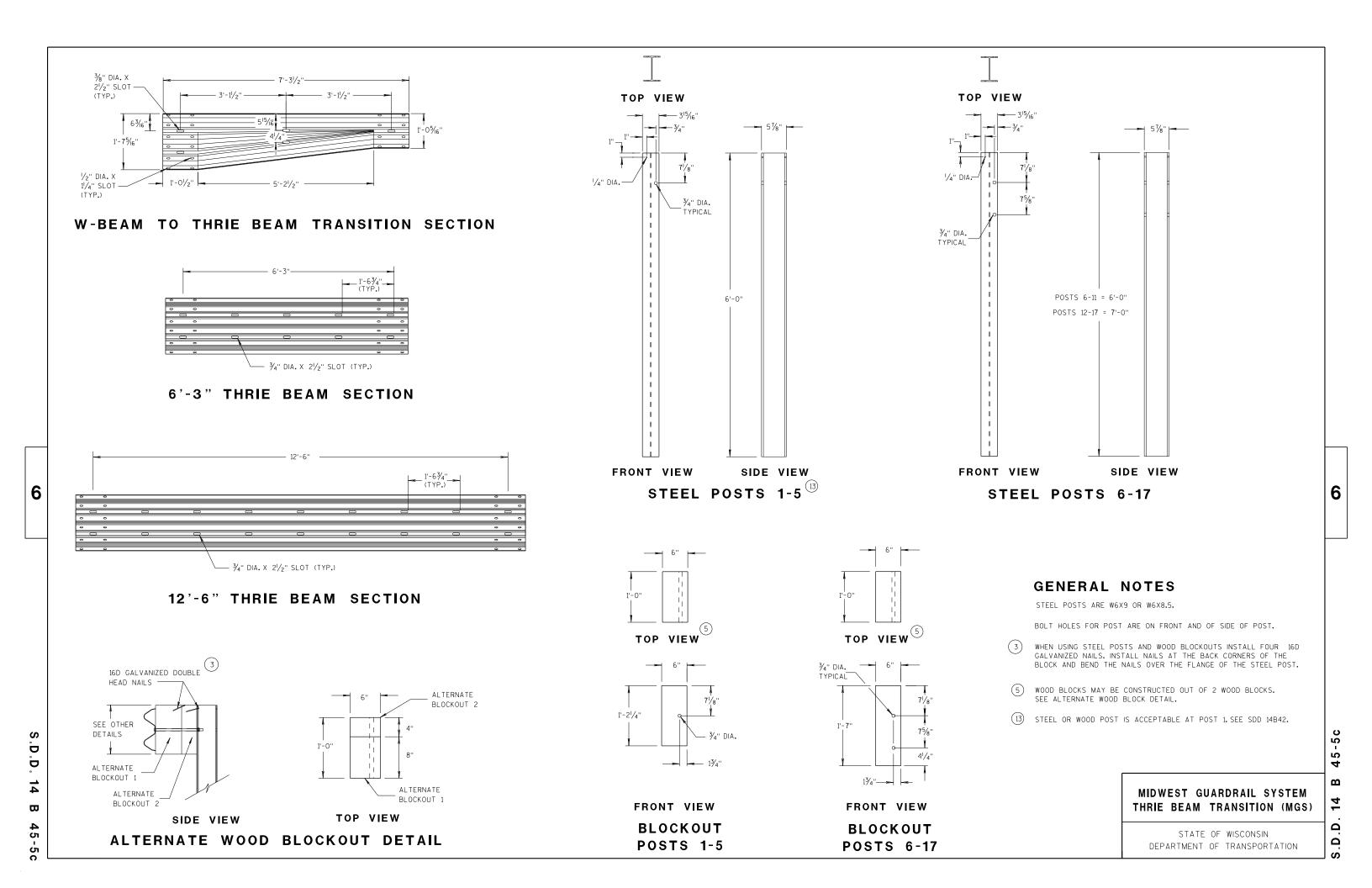
SDD

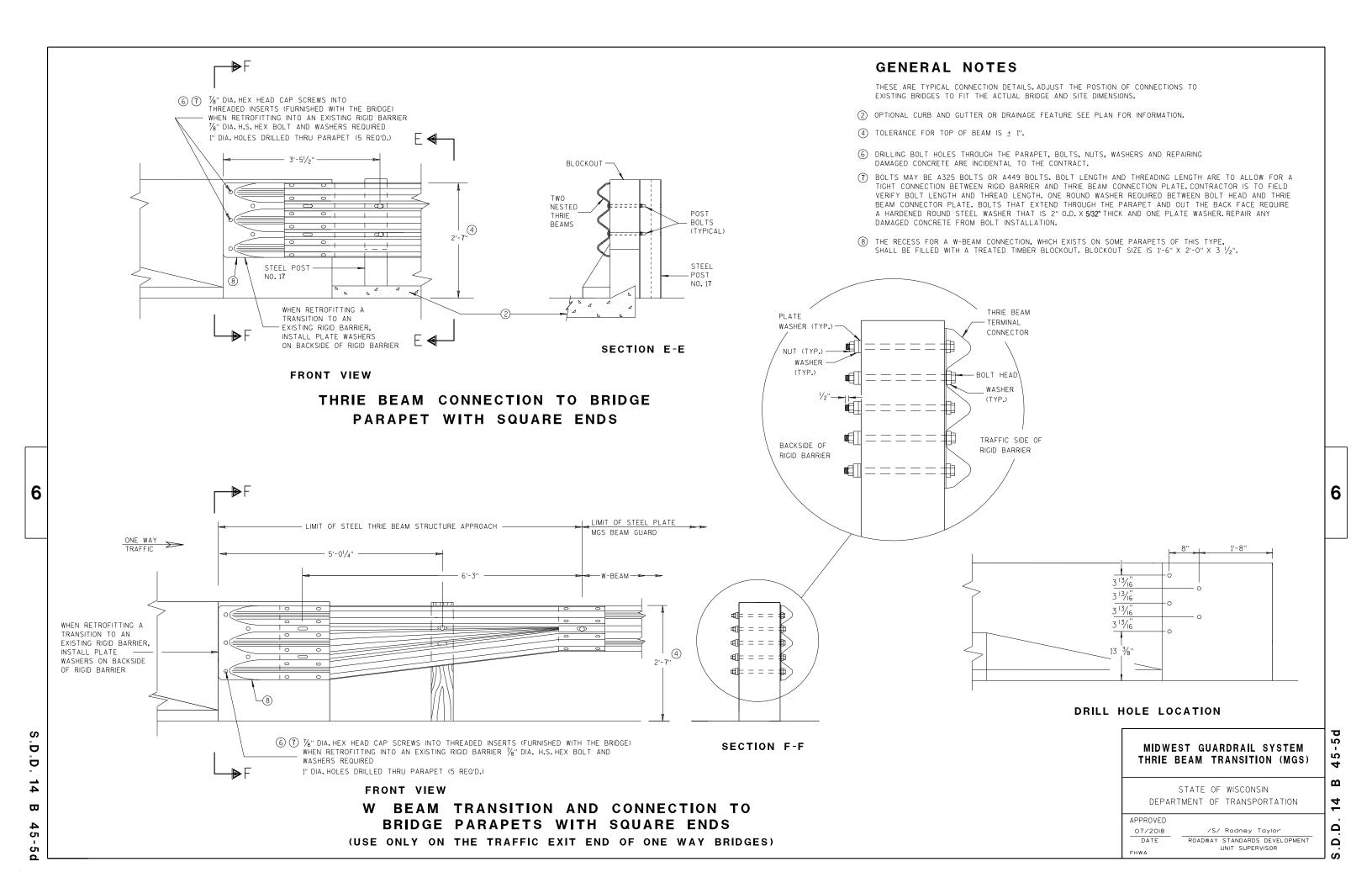
SDD 14B44 - 04



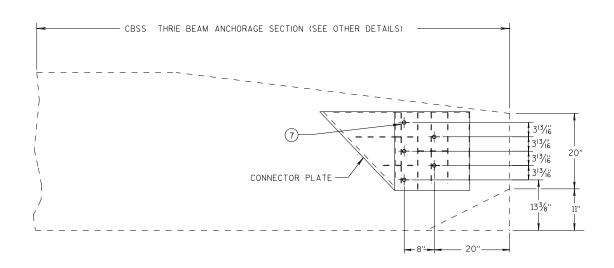








THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER

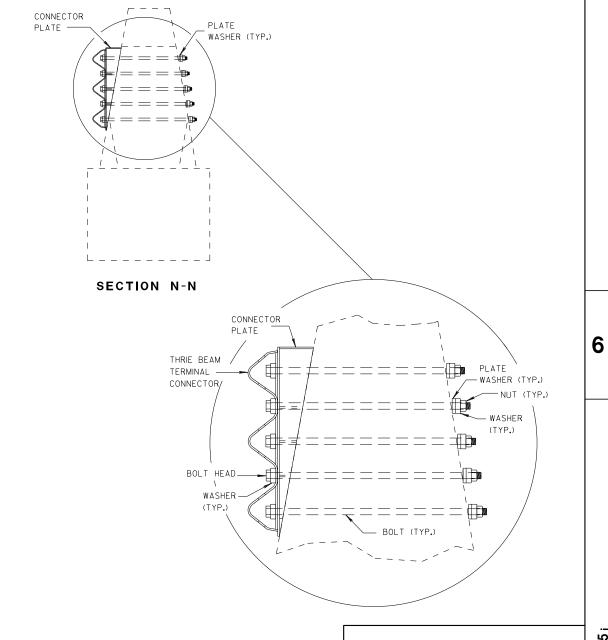


SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

- 2 OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- ONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE
ROADWAY

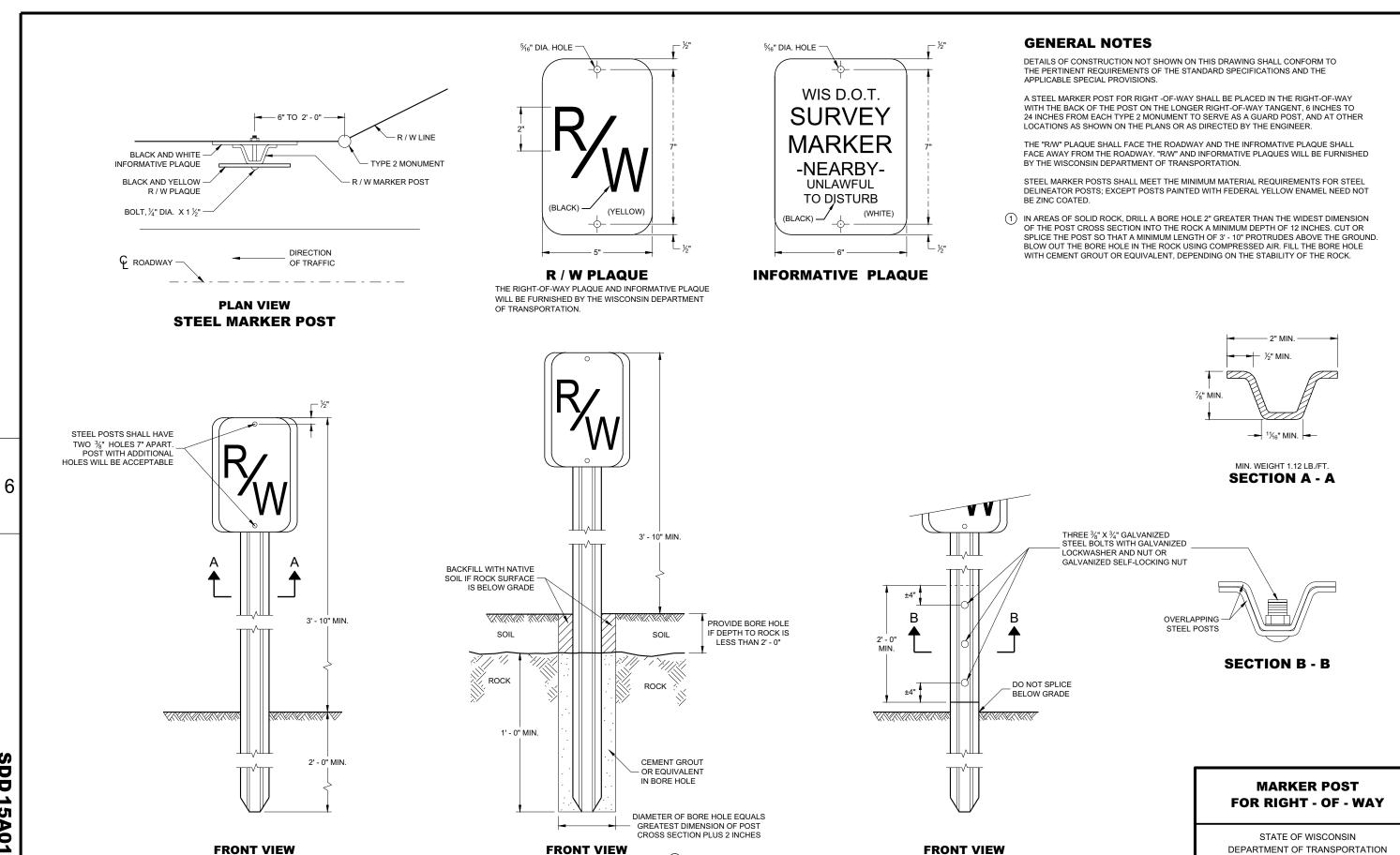
/S/ Rodney Taylor

ROADWAY STANDARDS DEVELOPMENT

UNIT SUPERVISOR

D.D. 14 B

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SPLICE DETAIL

ROCK INSTALLATION 1

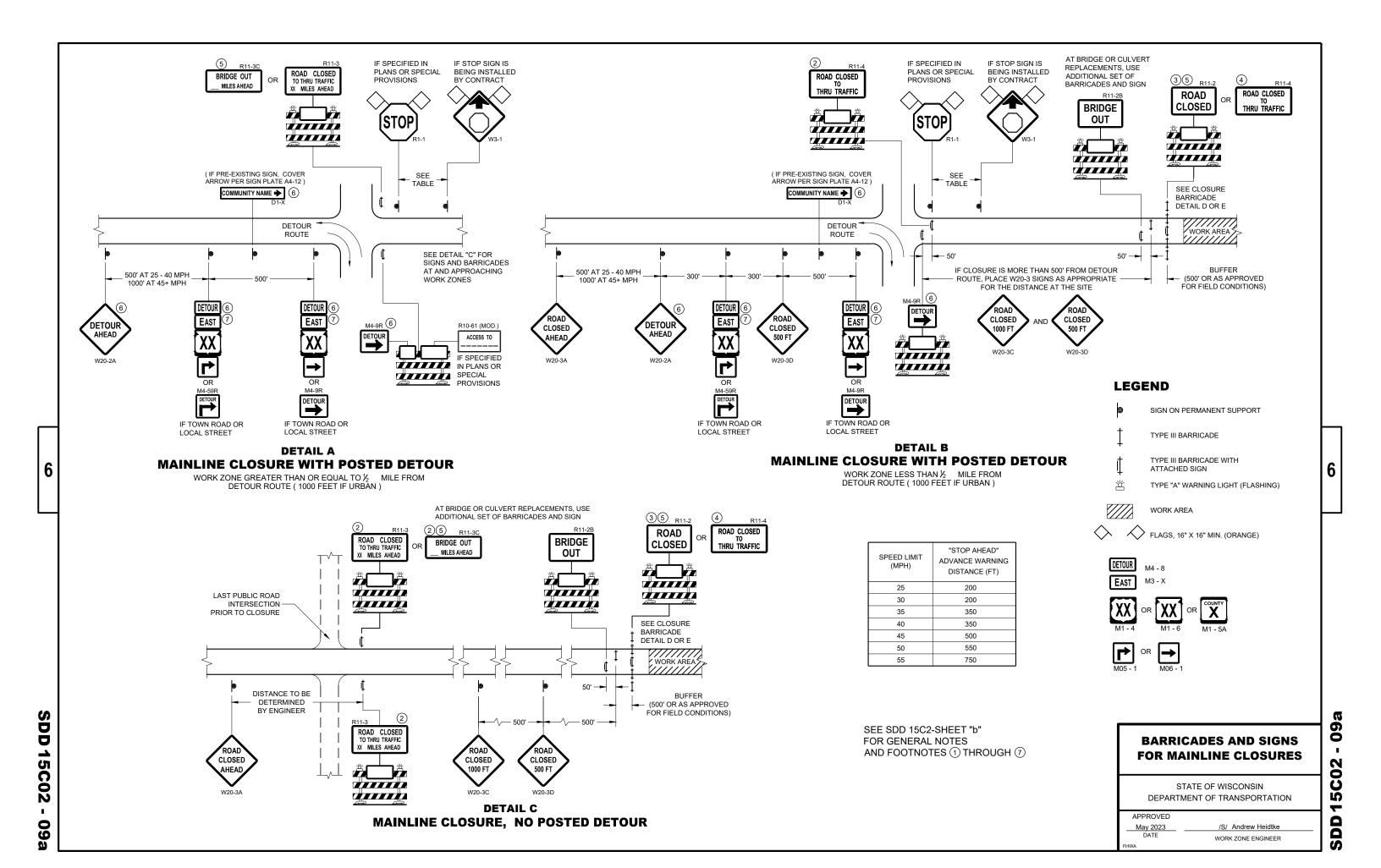
SDD 15A01 -

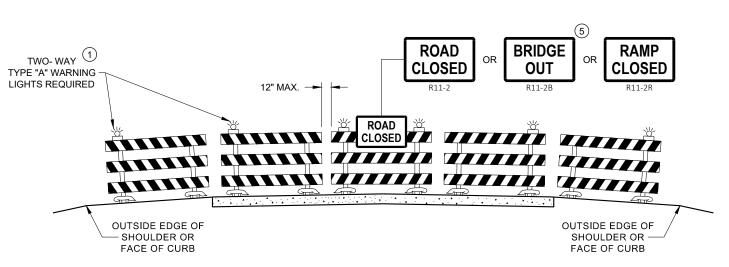
STEEL MARKER POST

DD 15A01 - 13

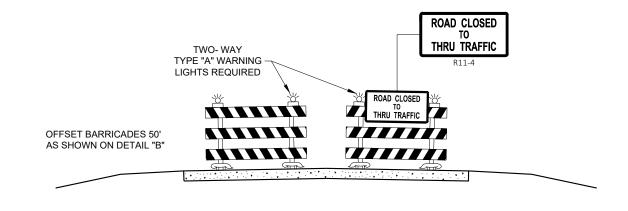
/S/ Ray Kumapayi
CHIEF SURVEYING AND MAPPING
ENGINEER

APPROVED 2/18/2016 DATE





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"

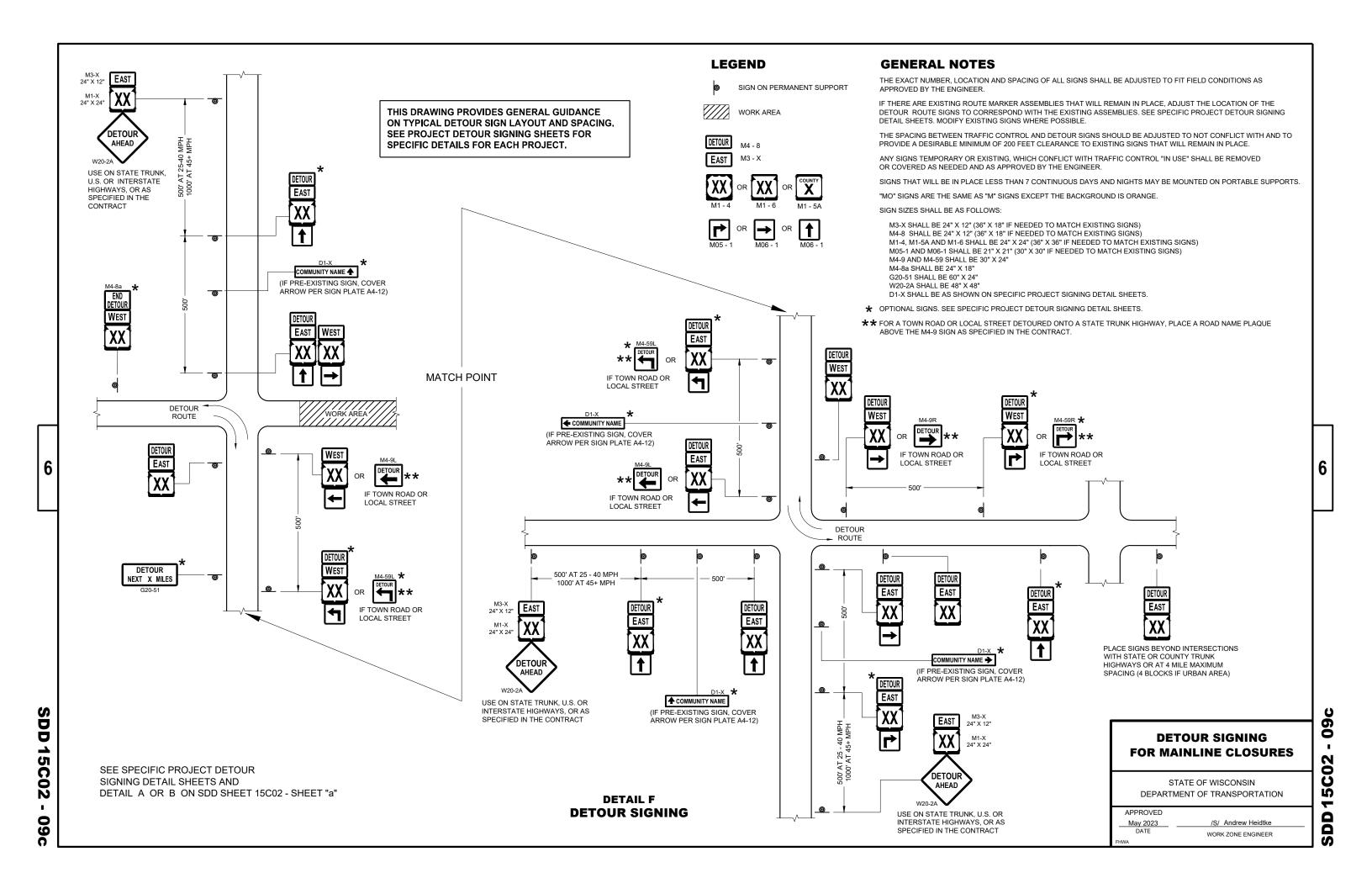
- TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT **SPACING**
- THESE SIGNS 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

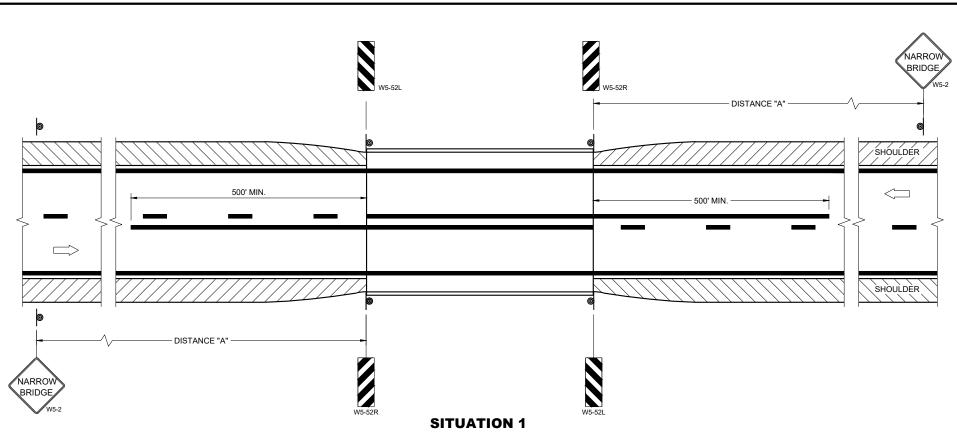
APPROVED May 2023 DATE WORK ZONE ENGINEER

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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

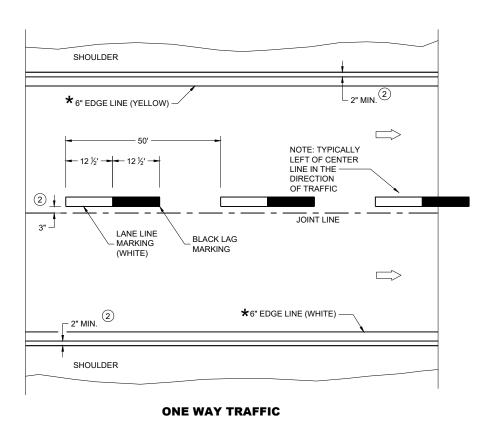
DISTANCE TABLE

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	



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

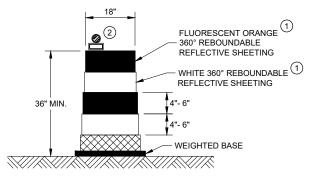
C08-23 Ŋ SD

15C08-23a

SDD 15C11

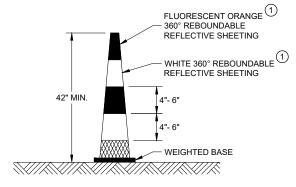
GENERAL NOTES

- (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.



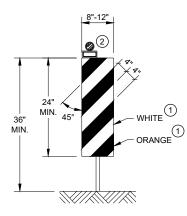
DRUM

BALLAST WIDTHS RANGE FROM 24"-36"



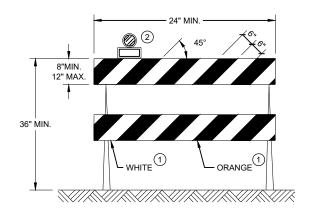
42" CONE

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



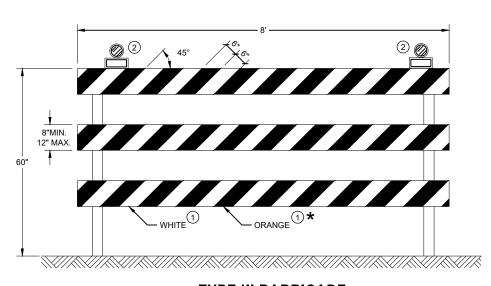
VERTICAL PANEL

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:

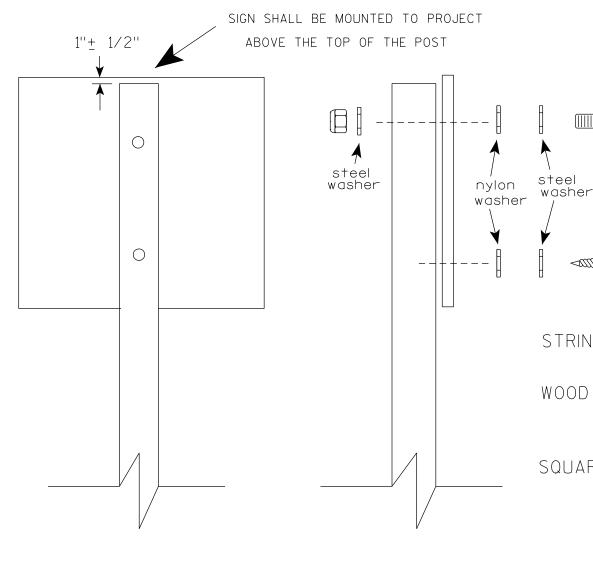
COUNTY:

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 - 1/32 " (6605-9-6) BULB-TITE. TRI-FOLD. ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

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

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

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

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

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

PROJECT NO:



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

DATE 2/05/15

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

For State Traffic Engineer



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

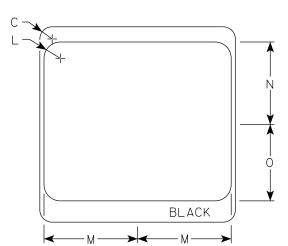
Ε

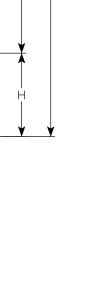
NOTES

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

Background - White & Black Message – Black

- 3. Message Series see Note 4
- 4. Message Series E for 1 letter. Message Series D for 2 letters unless message is too big then Series C. Message Series C for 3 letters unless message is too big then Series B.
- 5. Substitute appropriate letters & optically center to achieve proper balance.

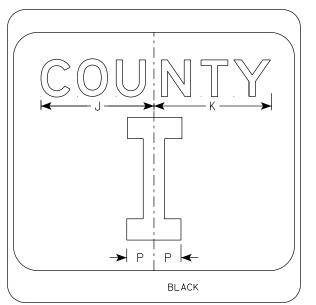


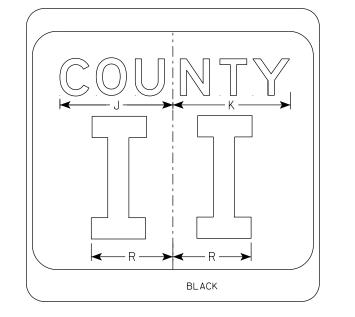


BLACK

HWY:

M1-5A





SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	Χ	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
2M	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 %	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

COUNTY:

CTH MARKER M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 11/8/2022

PLATE NO. M1-5A.9

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M15A.dgn

PROJECT NO:

PLOT DATE: 8-NOV 2022 8:26

PLOT BY : dotc4c

PLOT NAME :

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

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

Background - See note 5 Message - See note 5

NOTES

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. M3-1 thru M3-4 Background - White

Message - Black

MB3-1 thru MB3-4 Background - Blue

Message - White

MK3-1 thru MK3-4 Background - Green

Message - White

MM3-1 thru MM3-4 Background - White

Message - Green

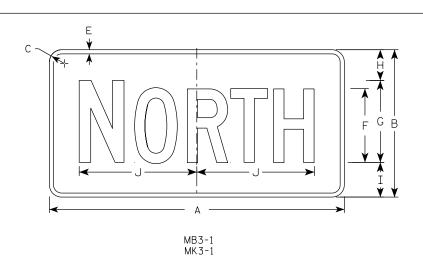
MN3-1 thru MN3-4 Background - Brown

Message - White

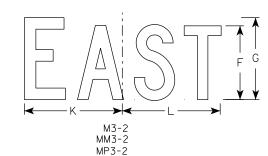
MP3-1 thru MP3-4 Background - White

Message - Blue

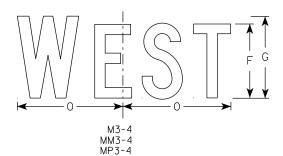
6. Note the first letter of each direction is larger than the remainder of the message.



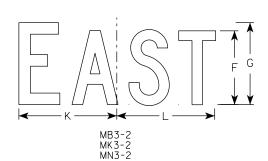
M3-1 MM3-1 MP3-1

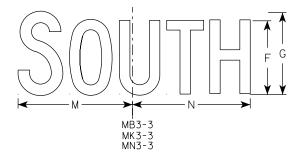


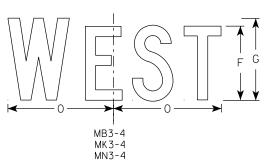
MM3-3



HWY:







SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4 7	7 1/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
2M	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4 7	7 1/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
3	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
4	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
5	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5

COUNTY:

STANDARD SIGNS M3-1 THRU M3-4 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 2/8/2023 PLATE NO. <u>M3-1.1</u>5

PROJECT NO:

PLOT DATE: 8-FEB 2023 11:00

PLOT BY : dotc4c

PLOT NAME :

SHEET NO: PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

FILE NAME : C:\CAEfiles\Projects\tr_stdplate_M31.dgn

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

Background - Orange Message - Black

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

$\begin{array}{c c} & & & \\ \downarrow & & \downarrow \\ \hline & & & \\ \hline & & & \\ \end{array}$	G	
		3
M4-8	>	<u>'</u>

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	┙	М	N	0	Р	Q	R	S	Т	U	٧	W	Χ	Υ	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
2M	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5

COUNTY:

STANDARD SIGN M4 - 8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew

DATE 2/9/2023 PLATE NO. M4-8.4

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M48.dgn

HWY:

PROJECT NO:

PLOT DATE: 9-FEB 2023 7:38

PLOT BY : dotc4c

PLOT NAME :

SHEET NO: PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

2. Color:

Background - Orange Message - Black

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

C	<u> </u>
	G
	F G
M4-8A	→

SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/2	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
2M	24	18	1 1/2	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/2	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4	30	24	1 1/2	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
5	30	24	1 1/2	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0

COUNTY:

STANDARD SIGN M4-8A

WISCONSIN DEPT OF TRANSPORTATION

for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8A.4 SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M48A.dgn

PROJECT NO:

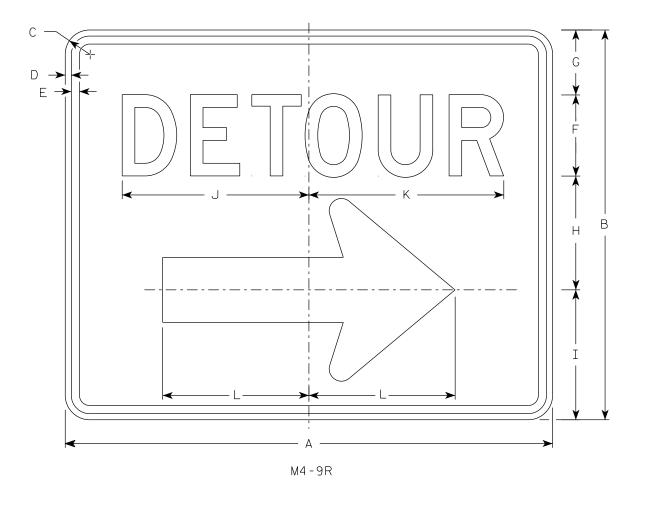
PLOT DATE: 9-FEB 2023 8:03

PLOT BY : dotc4c

PLOT NAME :

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

HWY:

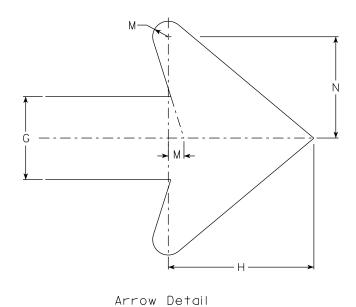


NOTES

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

Background - Orange Message – Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M4-9L is the same as M4-9R except the arrow is reversed.



SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 1/8													5.00
2M	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 1/8													5.00
3	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 1/8													5.00
4	48	36	1 1/8	1/2	5/8	8	6	10 1/2 1	11	20 5/8	20 1/2	13 1/4	1 1/8	6 1/8													12.0
5	48	36	1 1/8	1/2	5/8	8	6	10 1/2 1	11 %	20 %	20 1/2	13 1/4	1 1/8	6 1/8													12.0

COUNTY:

STANDARD SIGN M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R

ForState Traffic Engineer DATE 2/9/2023 PLATE NO. M4-9R.6

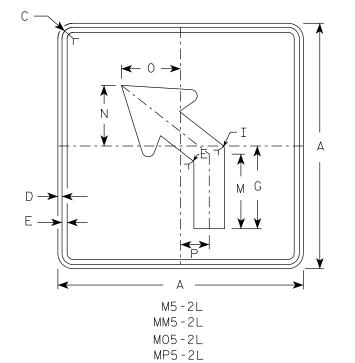
Ε

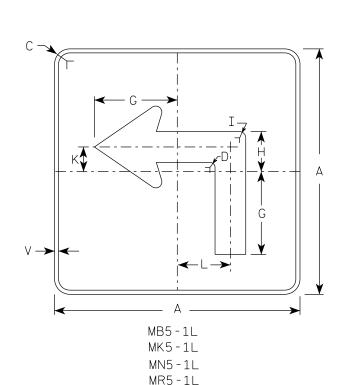
HWY:

PROJECT NO:

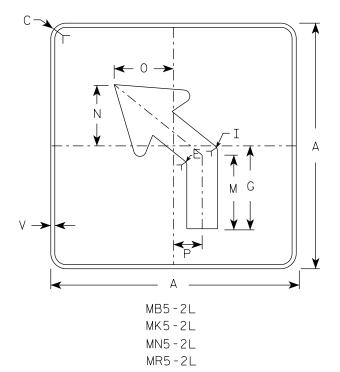
PLOT NAME :

M5-1L MM5-1L MO5-1L MP5-1L





HWY:



NOTES

- 1. Signs are Type II Type H reflective except as shown

Background - See note 4 Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- M5-1 and M5-2 Background White Message – Black

MB5-1 and MB5-2 Background - Blue

Message - White

MK5-1 and MK5-2 Background - Green

Message - White

MM5-1 and MM5-2 Background - White

Message - Green

MN5-1 and MN5-2 Background - Brown

Message - White

M05-1 and M05-2 Background - Orange - Type F Reflective

Message - Black

MP5-1 and MP5-2 Background - White

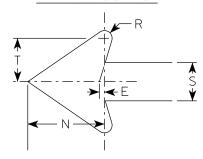
Message - Blue

MR5-1 and MR5-2 Background - Brown

Message - Yellow

- 5. M5-1R same as M5-1L except arrow points right.
- 6. M5-2R same as M5-2L except arrow tilts right.

ARROW DETAIL



PLOT NAME :

SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.
1																											
25	21		1 1/2	3/8	3/8		7	3 3/8	5/8	2	1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2	3		1/2					3.06
2M	21		1 1/2	3/8	3/8		7	3 3/8	5/8	2	1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2	3		1/2					3.06
3	30		1 1/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
4	30		1 1/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
5	30		1 1/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25

COUNTY:

STANDARD SIGN M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Forstate Traffic Engineer

DATE 2/13/2023 PLATE NO. M5-1.15

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate_M51.dgn

PROJECT NO:

PLOT DATE: 13-FEB 2023 10:05

PLOT BY : dotc4c

- 1. Signs are Type II Type H Reflective except as Shown
- 2. Color:

Background - See note 4 Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M6-1 and M6-2 Background White Message - Black

MB6-1 and MB6-2 Background - Blue

Message - White

MK6-1 and MK6-2 Background - Green

Message - White

MM6-1 and MM6-2 Background - White

Message - Green

MN6-1 and MN6-2 Background - Brown

Message - White

M06-1 and M06-2 Background - Orange - Type F Reflective

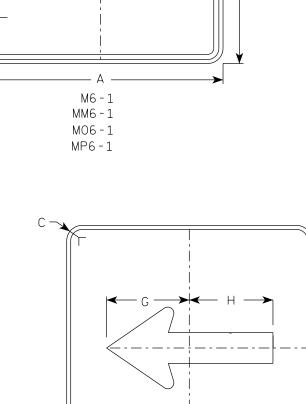
Message - Black

MP6-1 and MP6-2 Background - White

Message - Blue

MR6-1 and MR6-2 Background - Brown

Message - Yellow



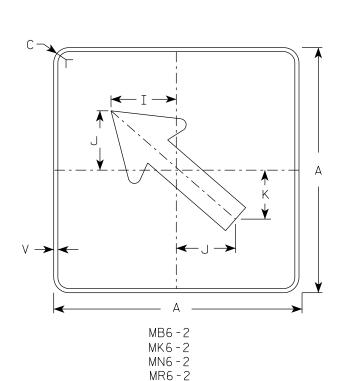
MB6-1

MK6-1

MN6 - 1

MR6-1

HWY:



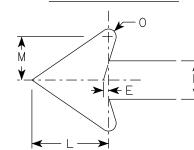
M6-2

MM6 - 2

MO6-2

MP6-2

ARROW DETAIL



SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
25	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
2M	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
3	30		1 1/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
4	30		1 1/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
5	30		1 1/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 2/13/2023 PLATE NO. M6-1.16 SHEET NO:

For State Traffic Engineer

FILE NAME : C:\CAEfiles\Projects\tr_stdplate_M61.dgn

PROJECT NO:

 $\vee \longrightarrow$

PLOT DATE: 13-FEB 2023 1:30

PLOT BY : dotc4c

PLOT NAME :

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

Ε



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

Background - White Message - Black

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

R11-3

** See Note 5

HWY:

В	C	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.
18	1 1/2	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
30	1 7/8	1/2	5/8	6	5	3 1/2	16 1/8	5	1 3/8	23 1/4	3	6 1/4	13	1 1/8		1 1/8	22 1/8	14	1 1/2	17 1/2	11 1/8				12.5
30	1 7/8	1/2	5/8	6	5	3 1/2	16 1/8	5	1 3/8	23 1/4	3	6 1/4	13 %	1 1/8		1 1/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
)	30	30 1 7/8	18 1 ½ ¾ 30 1 ⅓ ½	18 1 ½ ¾ ¾ ¾ 30 1 ¾ ½ 5%	18 1 ½ 3/8 3/8 4 30 1 7/8 ½ 5/8 6	18 1 ½ 3/8 3/8 4 3 30 1 ½ ½ 5/8 6 5	18 1 ½ 3/8 3/8 4 3 2 30 1 ½ 5/8 6 5 3 ½	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 30 1 ½ 5/8 6 5 3 ½ 16 ¾	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 ¾	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ½ 15 3/8 30 1 ½ 5/8 6 5 3 ½ 16 ½ 5 1 3/8 23 ¼	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ½ 15 3/8 2 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 3/8 23 ¼ 3	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 15 ¾ 2 3 ¾ 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 ¾ 23 ¼ 3 6 ¼	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 ¾ 23 ¼ 3 6 ¼ 13 ¾	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 ¾ 23 ¼ 3 6 ¼ 13 ¾ 1 ½	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 ¾ 23 ¼ 3 6 ¼ 13 ¾ 1 ½	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 ¾ 23 ¼ 3 6 ¼ 13 ½ 1 ½ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 3 6 ¼ 1 ¾ 1 ½ 1 ½	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓8 15 ¾8 2 3 ¾4 8 ¼4 5/8 1 ¾8 13 ¼4 30 1 ¾8 ½ 5/8 6 5 3 ½ 16 ¾8 5 1 ¾8 23 ¼4 3 6 ¼4 13 ½8 1 ⅓8 1 ¾8 22 ⅓8	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓8 15 ¾8 2 3 ¾4 8 ¼4 5/8 1 ¾8 13 ¼4 8 ¾8 30 1 ¾8 ½ 5/8 6 5 3 ½ 16 ¾8 5 1 ¾8 23 ¼4 3 6 ¼4 13 ½8 1 ⅓8 1 ¾8 12 ½8 14	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓8 15 ¾8 2 3 ¾4 8 ¼4 5/8 1 ¾8 13 ¼4 8 ¾8 ½8 30 1 ¾8 ½ 5/8 6 5 3 ½ 16 ¾8 5 1 ¾8 23 ¼4 3 6 ¼4 13 ½8 1 ⅓8 11 ¾8 22 ⅓8 14 1 ½2	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓8 15 ¾8 2 3 ¾4 8 ¼4 5/8 1 ¾8 13 ¼4 8 ¾8 ¼8 10 ½ 30 1 ¾8 ½ 5/8 6 5 3 ½ 16 ¾8 5 1 ¾8 23 ¼4 3 6 ¼4 13 ½8 1 ⅓8 1 ¾8 12 ½8 14 1 ½2 17 ½2	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ 1 ½ 1 ¼ <t< td=""><td>18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ½ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ½ <t< td=""><td>18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ½ <t< td=""><td>18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ <t< td=""></t<></td></t<></td></t<></td></t<>	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ½ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ½ <t< td=""><td>18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ½ <t< td=""><td>18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ <t< td=""></t<></td></t<></td></t<>	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ½ <t< td=""><td>18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ <t< td=""></t<></td></t<>	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ <t< td=""></t<>

COUNTY:

STANDARD SIGN R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther & Rawh

For State Traffic Engineer

SHEET NO:

DATE <u>2/5/24</u> PLATE NO. <u>R11-3.10</u>

Ε

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R113.DGN

PROJECT NO:

PLOT DATE : 5-FEB 2024 2:30

PLOT BY: mscj9h

PLOT NAME :

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

NOTES

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

Background - Yellow Message - Black

3. W1-1L is the same as W1-1R except the arrow is reversed along the vertical centerline.

A R N S S S S S S S S S S S S S S S S S S	
W1-1R	

SIZE	А	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	a	R	S	Т	U	٧	W	Х	Υ	Z	Area sq. ft.
1	24		1 1/2	3/8	1/2		3	3 1/2	7 3/4	5	2 1/2	7/8	4	1/2	7	9 1/2		5/8	3 1/4								4.0
25	36		2 1/4	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 %	1 1/4	6	3/4	10 1/2	14 1/4		1	4 1/8								9.0
2M	36		2 1/4	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 1/8								9.0
3	36		2 1/4	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 1/8								9.0
4	48		3	3/4	1		6	7	15 1/2	10	4 1/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0
5	48		3	3/4	1		6	7	15 1/2	10	4 1/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0

COUNTY:

STANDARD SIGN W1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

MML/ T Tau For State Traffic Engineer

DATE 3/22/2023 PLATE NO. W1-1.12

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W11.dgn

PROJECT NO:

PLOT DATE: 23-MARCH 2023 6:01

PLOT BY: dotc4c

PLOT NAME :

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

HWY:

I

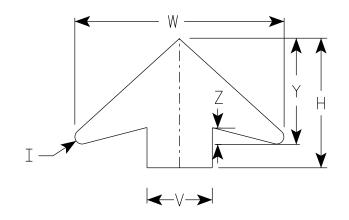
PLOT BY: dotc4

- 1. Sign is Type II See Note 2 for Sheeting Type
- 2. Color: *

 Background Yellow* (Type F Reflective)

 Message Black
- 3. Message Series C for numbers Series E for wording
- 4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background with black message (Type SH Reflective)



ARROW DETAIL

SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Χ	Υ	Z	Area sq. ft
1																											
25	36		2 1/4	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		2 1/4	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		2 1/4	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 %	3/8	13	2	16.0
5	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 %	3/8	13	2	16.0

STANDARD SIGN W3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther K Rauch

For State Traffic Engineer

DATE 8/30/2023 PLATE NO. W3-5.7

SHEET NO:

NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W35.DGN

PROJECT NO:

* White Background

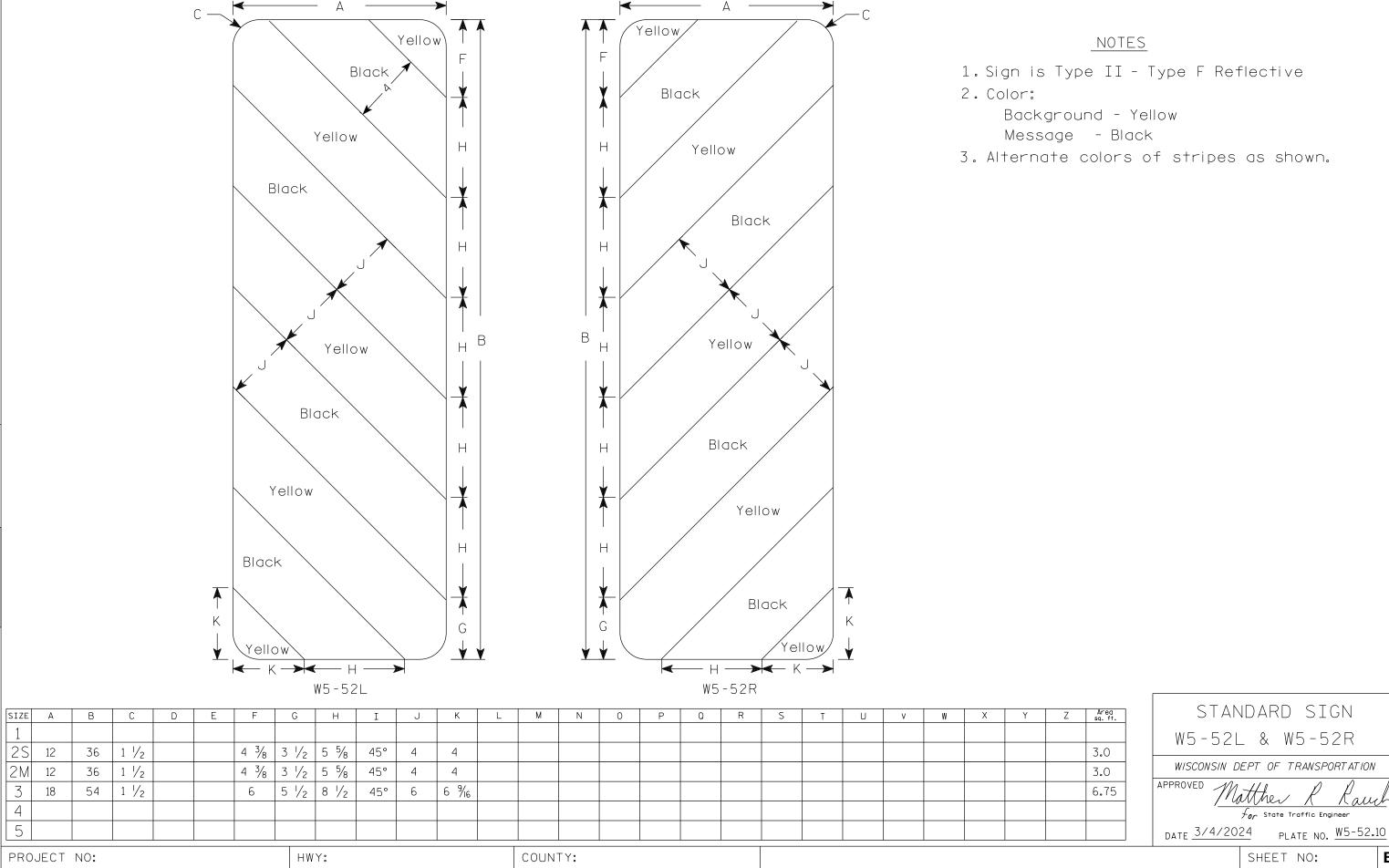
W3 - 5

Black Border . White Margin :

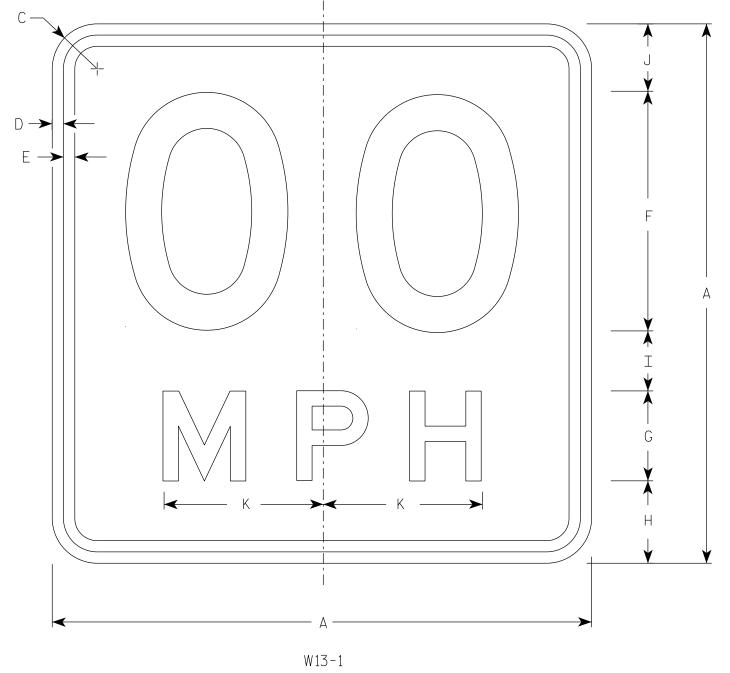
PLOT DATE: 30-AUG 2023 2:37

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42



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



NOTES

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

Background - Yellow Message - Black

- 3. Message Series See Note 5
- 4. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
- 5. Line 1 is Series D Line 2 is Series E

 \star For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs. For $36" \times 36"$ Warning Signs, use $24" \times 24"$ W13-1 signs.

SIZ	E A	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	V	w	X	Y	Z	Area sq. ft.
1	18	3	1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 25	3 18	3	1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
X 2N	/ 18	3	1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
3	2		1 1/2	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
4	3	6	2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
5	3	6	2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10																9.00

COUNTY:

STANDARD SIGN

W13-1

WISCONSIN DEPT OF TRANSPORTATION APPROVED Matthew & Kauch

DATE 1/8/2024 PLATE NO. W13-1.17

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W131.dgn

HWY:

PROJECT NO:

PLOT DATE: 8-Jan 2024 11:07

PLOT BY : dotc4c

PLOT NAME :

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

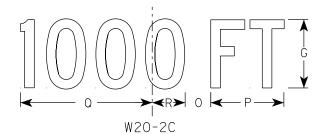


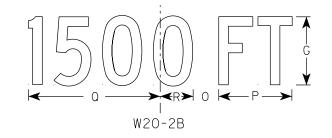
- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

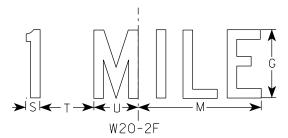
- 3. Message Series See note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Line 1 is Series D.
 Line 2 is Series D for AHEAD and
 Series C for all other distances.

S N O P
W20-2D









SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
	36		2 1/4	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 1/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
25	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 ½	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0
2M	48		3	3/4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0
3	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 ½	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0
4	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0
5	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 ½	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0

COUNTY:

STANDARD SIGN W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R

DATE 1/10/2024 PLATE NO. W20-2.7

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W202.DGN

PROJECT NO:

PLOT DATE: 10-JAN 2024 11:36

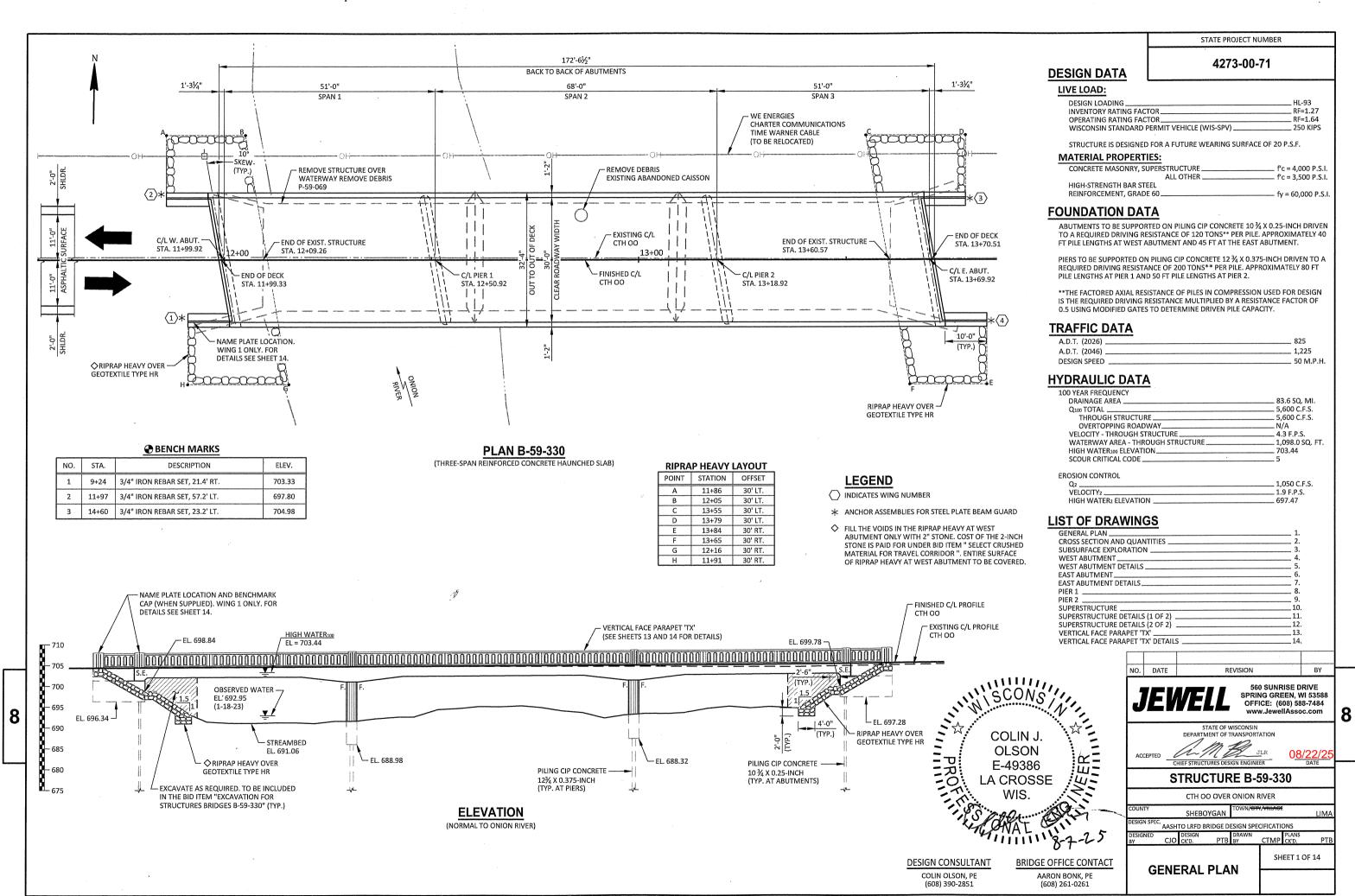
PLOT BY : dotc4c

PLOT NAME :

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

W20-2A

HWY:



4273-00-71

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED

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

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

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 WEST ABUTMENT ONLY, VOIDS IN THE RIPRAP HEAVY SHALL BE FILLED WITH 2-INCH STONE. COST FOR THE 2-INCH STONE IS PAID FOR UNDER BID ITEM "SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR"

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. THE BACKFILL STRUCTURE TYPE A QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THIS SHEET AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

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

APPLY PROTECTIVE SURFACE TREATMENT TO THE TOP OF THE DECK (FINISHED AREAS ONLY) AND TO THE HORIZONTAL AND VERTICAL FACES OF THE PAVING NOTCHES.

APPLY PIGMENTED SURFACE SEALER TO THE INSIDE, TOP, WINDOWS, AND END FACES OF PARAPETS.

ALL STATIONS AND ELEVATIONS SHOWN ARE IN FEET.

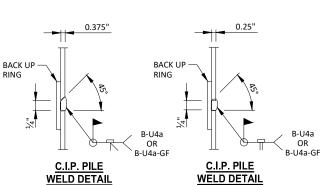
THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-59-330" SHALL BE THE EXISTING GROUNDLINE OR THE EXISTING STREAMBED.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATIVE METHOD IS APPROVED BY THE ENGINEER IN THE FIELD.

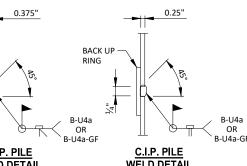
THE FIRST DIGIT OF A BAR MARK SIGNIFIES THE BAR SIZE

THE EXISTING STRUCTURE (P-59-069) CONSISTS OF THREE SPAN CAST IN PLACE CONCRETE GIRDER STRUCTURE ON RECTANGULAR CONCRETE PIERS, 27.3' OVERALL DECK WIDTH, 146' OVERALL LENGTH AND SHALL BE REMOVED.

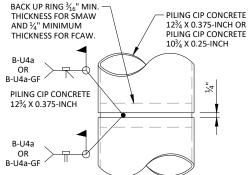
THE EXISTING ABANDONED STEEL CAISSON UNDER SPAN TWO OF THE EXISTING STRUCTURE SHALL BE REMOVED. COST IS INCIDENTAL TO "REMOVING STRUCTURE OVER WATERWAY REMOVE DEBRIS P-59-069"



WELD DETAIL PILING CIP CONCRETE



10¾ X 0.25-INCH

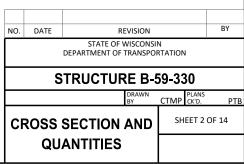


PILING CIP CONCRETE 103/4 X 0.25-INCH

CAST-IN-PLACE 'PIPE PILE'

NOTES:

CAST-IN-PLACE PILE SHELL MATERIAL SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS



*6" NOMINAL FACE OF RAIL -VERTICAL FACE PARAPET RODENT SCREEN 'TX'. FOR DETAIL SEE SHEETS 13 AND 14

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

*1½"

Nooooool)

SECTION A-A

ORIENT SCREEN SO SLOTS ARE VERTICAL.

COST OF THE RODENT SCREEN, PIPE COUPLING, AND SCREWS ARE 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 THE SCREEN TO THE EXPOSED ENDS OF THE PIPE UNDERDRAIN. THE SCREEN SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO

OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS. TOE OF EXCAVATION -- PROPOSED

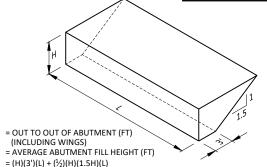
> TO SUITABLE DRAINAGE ATTACH RODENT SCREEN AT ENDS OF PIPE UNDERDRAIN. SEE DETAIL THIS SHEET.

> > PILING CIP CONCRETE

12¾ X 0.375-INCH

ABUTMENT

PIPE UNDERDRAIN DETAIL



ABUTMENT BACKFILL DIAGRAM

PIPE UNDERDRAIN

WRAPPED 6-INCH

3/4" V-GROOVE (TYP.)

EXTEND TO 6" FROM FACE OF ABUTMENTS

 $V_{CF} = (H)(3')(L) + (\frac{1}{2})(H)(1.5H)(L)$

$V_{TON} = (V_{CY})(2.0)$

TOTAL ESTIMATED QUANTITIES

BACKFILL STRUCTURE TYPE A

32'-4" OUT-TO-OUT OF DECK

C/L CTH 00 -

15'-0"

2.0%

IN SPAN

♦ BACKFILL STRUCTURE TYPE A PAY LIMITS. BACKFILL BEYOND PAY LIMITS SHALL BE

INCIDENTAL TO THE BID ITEM

SHALL BE DETERMINED BY THE

CONTRACTOR.

"EXCAVATION FOR STRUCTURES

B-59-330". LIMITS OF EXCAVATION

PIPE UNDERDRAIN WRAPPED (6-INCH),

DRAINAGE ATTACH RODENT SCREEN AT

ENDS OF PIPE UNDERDRAIN AS DETAILED

ON THIS SHEET. RODENT SCREEN TO BE

SLOPED 0.5% MIN. TO SUITABLE

INCLUDED IN THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH.

POINT REFERRED TO ON

PROFILE GRADE LINE

STABLE STREAMBED

AT PIER

PROPOSED CROSS-SECTION THROUGH ROADWAY

- PAVEMENT STRUCTURE

- SUBGRADE

1.5

"GEOTEXTILE TYPE DF SCHEDULE

A" LIMITS. EXTEND 2'-0" ABOVE

BOTTOM OF ABUTMENT.

IIMITS

OF BACKFILL

15'-0"

1'-8" WITHIN ROADBED

— FACE OF RAIL

AT ABUTMENT

3'-0"

REQUIRED

BACKFILL STRUCTURE DETAIL

(TYPICAL AT ABUTMENTS)

RIPRAP HEAVY OVER

BRIDGE STRUCTURE -

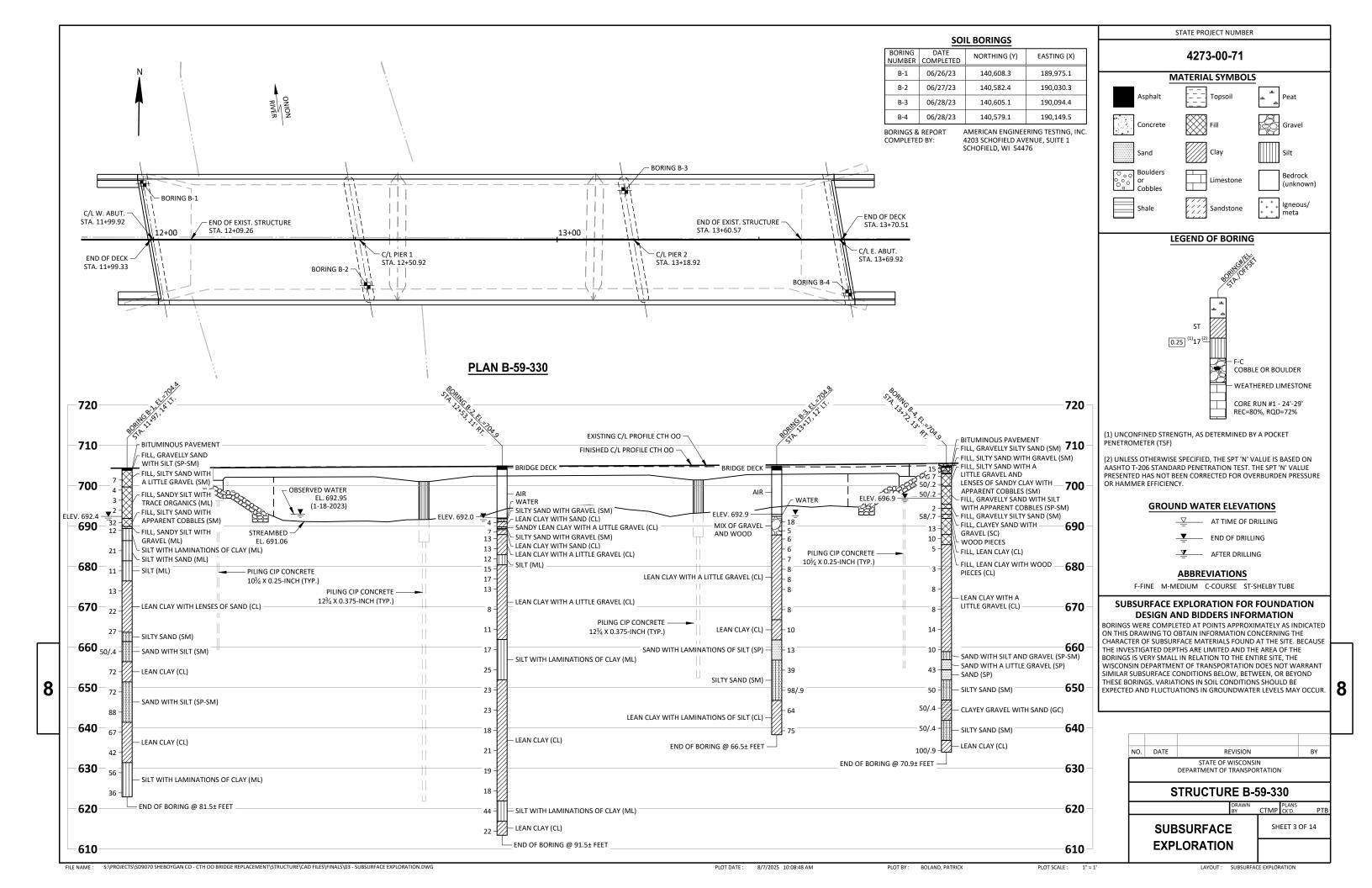
GEOTEXTILE TYPE

HR REQ'D. (TYP.)

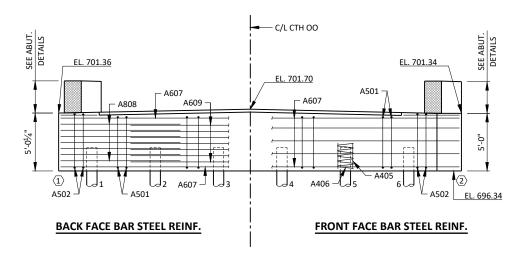
ITEM NUMBER	ITEM DESCRIPTION	UNIT	W. ABUT.	PIER 1	PIER 2	E. ABUT.	SUPER	TOTALS
203.0250	REMOVING STRUCTURE OVER WATERWAY REMOVE DEBRIS P-59-069	EACH						1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-59-330	EACH						1
210.1500	BACKFILL STRUCTURE TYPE A	TON	125			125		250
502.0100	CONCRETE MASONRY BRIDGES	CY	30.9	34.9	37.8	31.1	458.6	593
502.3200	PROTECTIVE SURFACE TREATMENT	SY					585	585
502.3210	PIGMENTED SURFACE SEALER	SY					210	210
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1,960	1,590	1,680	1,960		7,190
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,170	60	60	1,170	75,460	77,920
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	6			6		12
550.2104	PILING CIP CONCRETE 10 3/4 X 0.25-INCH	LF	240			270		510
550.2126	PILING CIP CONCRETE 12 \(\frac{3}{4}\) X 0.375-INCH	LF		720	450			1,170
606.0300	RIPRAP HEAVY	CY	95			90		185
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	75			75		150
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH					4	4
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	35			35		70
645.0120	GEOTEXTILE TYPE HR	SY	150			150		300
SPV.0090	PARAPET CONCRETE TYPE TX	LF					385	385
SPV.0195	SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR	TON	45					45
	NON-BID ITEMS							
	FILLER	SIZE						1/2" & 3/4"
	NAME PLATE							

K=97.38 L=150' K=228.66 -0.16% VPI STA. 11+22.50 EL. 704.06 FINISHED C/L PROFILE CTH OO VPC STA. 10+47 EL. 704.18 **PROFILE GRADE LINE**

8

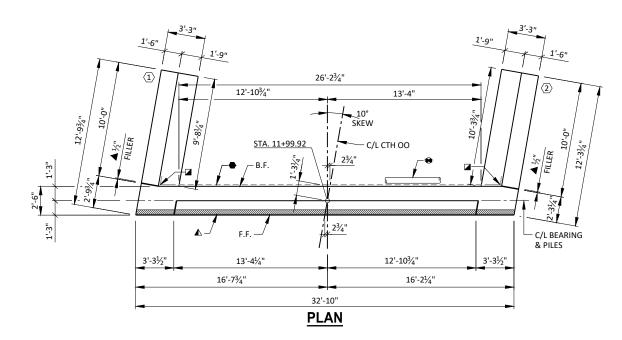


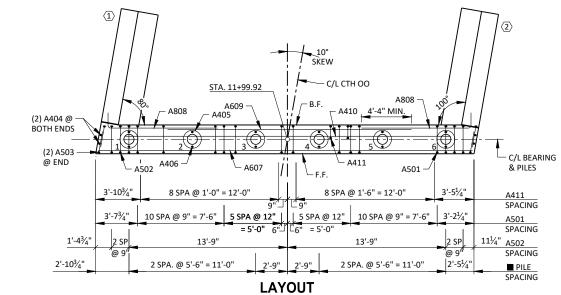




ELEVATION

(WEST ABUTMENT LOOKING WEST)





NOTES SOME BARS HAVE BEEN OMITTED FOR CLARITY. SEE

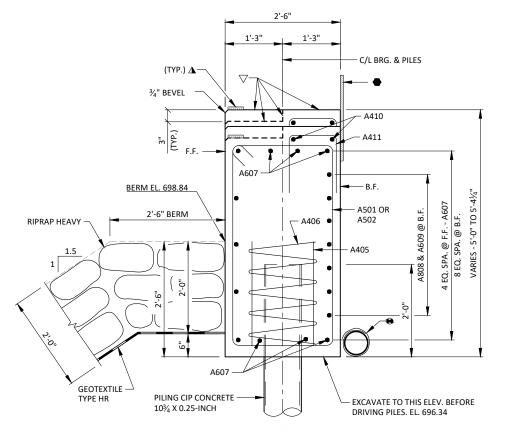
SEAT ELEVATIONS SHOWN IN THE ELEVATION VIEW ARE TAKEN AT THE C/L OF BEARING.

SPACE REINFORCEMENT TO MISS PILING

SHEET 5 FOR BILL OF BARS.

F.F. - FRONT FACE

B.F. - BACK FACE

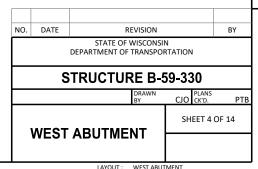


WEST ABUTMENT TO BE SUPPORTED ON PILING CIP CONCRETE 10¾ X 0.25-INCH DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 120 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATE 40 FT PILE LENGTHS AT WEST ABUTMENT.

TYPICAL SECTION THROUGH ABUTMENT BODY

LEGEND

- ☑ 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)
- ▼ STEEL TROWEL ENTIRE TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF
 POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING BEARING
 PADS AND SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST
- 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. RODENT SCREEN TO BE INCLUDED IN THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH."
- INDICATES WING NUMBER.

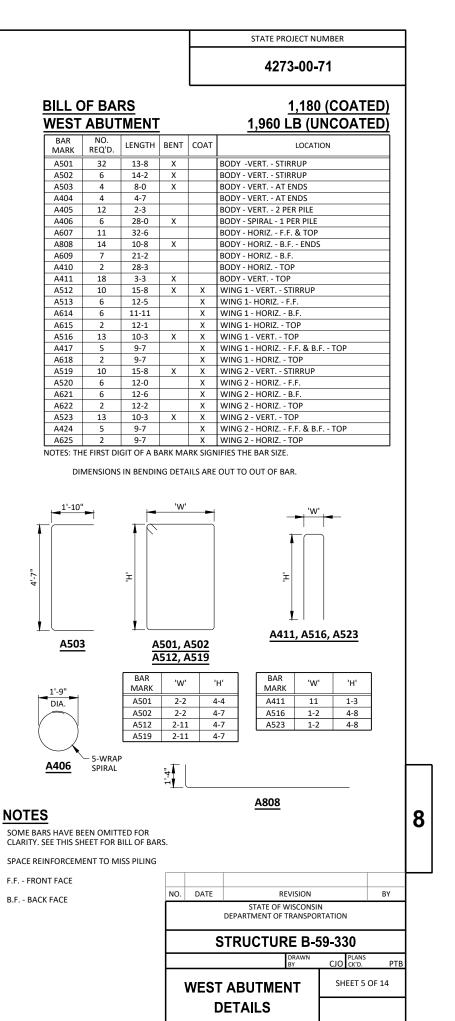


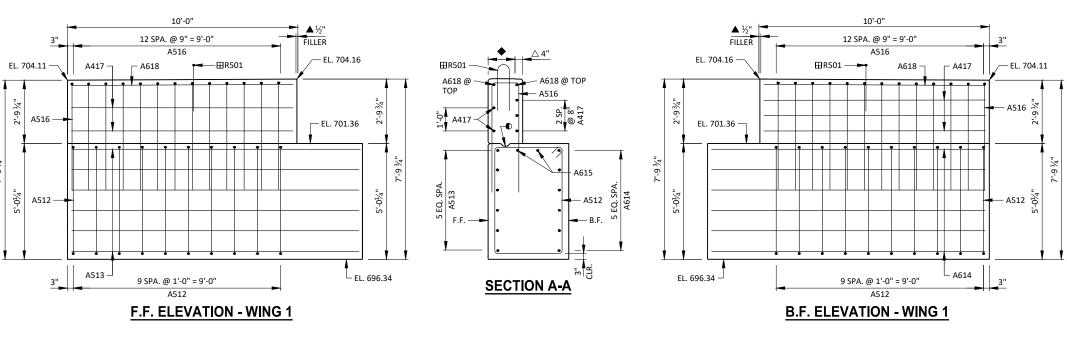
8

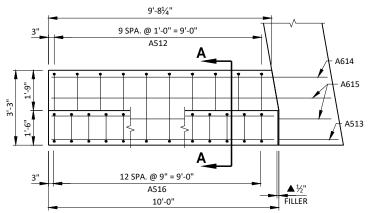
S:\PROJECTS\SD9070 SHEBOYGAN CO - CTH OO BRIDGE REPLACEMENT\STRUCTURE\CAD FILES\FINALS\04 - ABUTMENTS.DWG

8

PLOT SCALE :



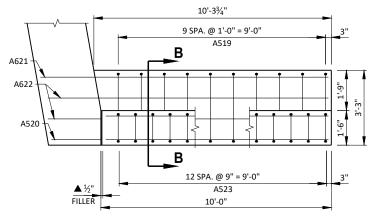




PLAN VIEW - WING 1

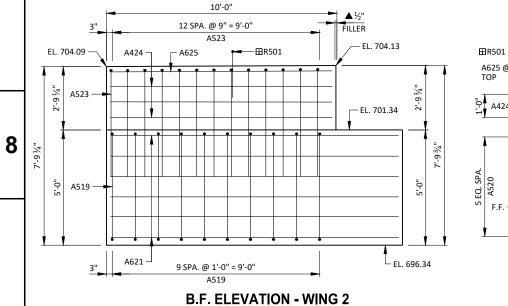
LEGEND

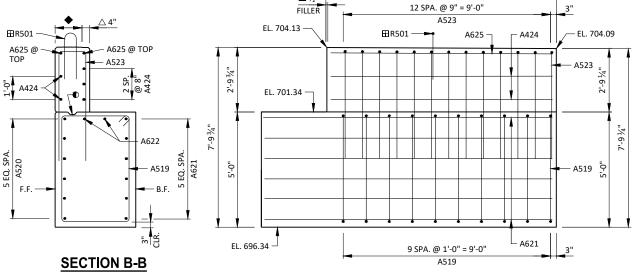
- OPTIONAL KEYED CONSTRUCTION JOINT FORMED BY SURFACED & BEVELED 2x6. ¾-INCH "V" GROOVE AT FRONT FACE OF WING WALL AND HORIZONTAL 18" RUBBERIZED MEMBRANE WATERPROOFING AT BACK FACE IF CONSTRUCTION JOINT IS USED. COST IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY BRIDGES".
- ▲ ½" FILLER EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINUOS JOINT SEALER. (1" DEEP & HOLD ½" BELOW SURFACE OF CONCRETE)
- ◆ CONSTRUCTION JOINT. STRIKE OFF AS SHOWN IN PARAPET DETAILS
- \triangle FINISH SURFACE NOT COVERED BY PARAPET SAME AS BRIDGE DECK.
- ☐ R501 BARS TO BE TIED TO WING STEEL BEFORE WING IS POURED. SEE SHEET 13 FOR PLACEMENT AND SHEET 10 FOR SPACING



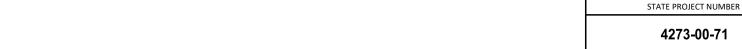
PLAN VIEW - WING 2

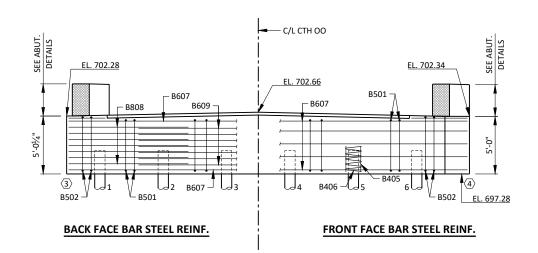
10'-0"



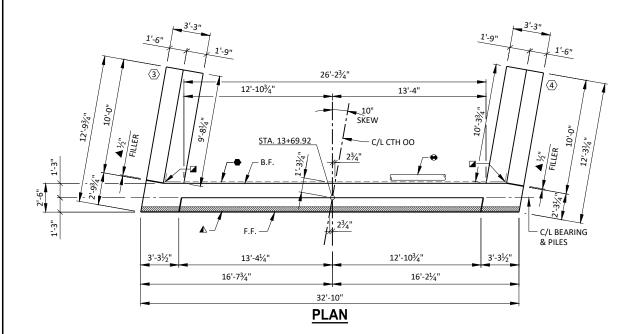


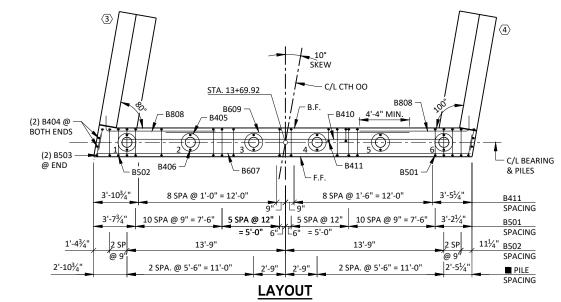
F.F. ELEVATION - WING 2





ELEVATION (EAST ABUTMENT LOOKING EAST)





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

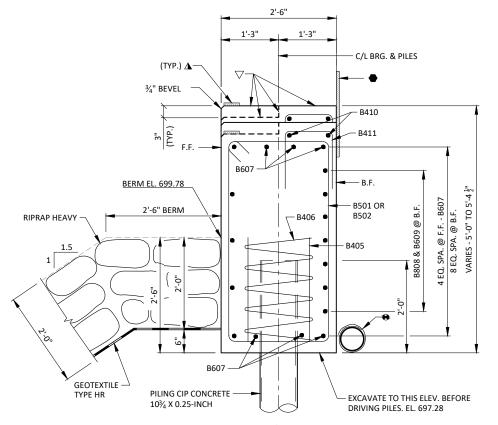
SEAT ELEVATIONS SHOWN IN THE ELEVATION VIEW ARE TAKEN AT THE C/L OF BEARING.

SPACE REINFORCEMENT TO MISS PILING

F.F. - FRONT FACE

NOTES

B.F. - BACK FACE

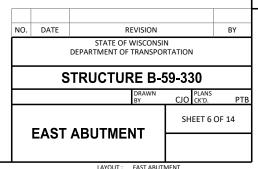


EAST ABUTMENT TO BE SUPPORTED ON PILING CIP CONCRETE 10¾ X 0.25-INCH DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 120 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATE 45 FT PILE LENGTHS AT EAST ABUTMENT.

TYPICAL SECTION THROUGH ABUTMENT BODY

LEGEND

- ☑ 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)
- ▼ STEEL TROWEL ENTIRE TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF
 POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING BEARING
 PADS AND SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST
- 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. RODENT SCREEN TO BE INCLUDED IN THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH."
- INDICATES WING NUMBER.

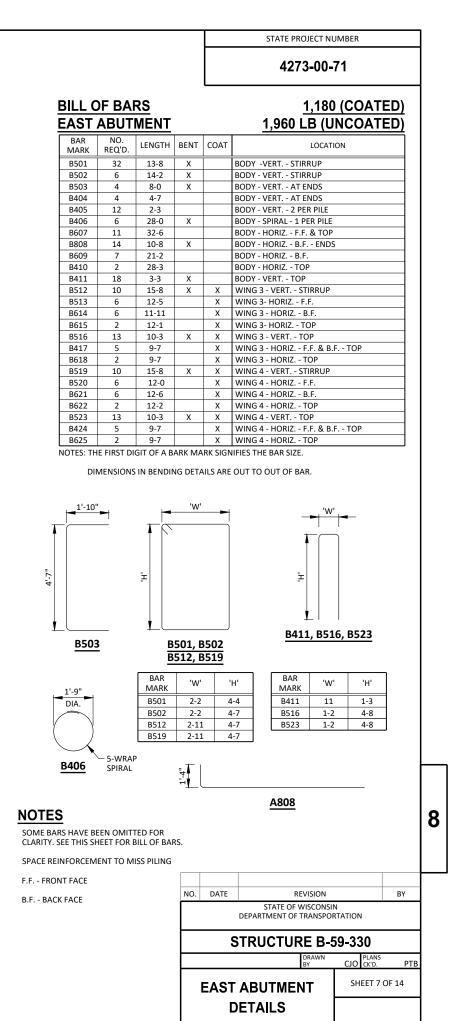


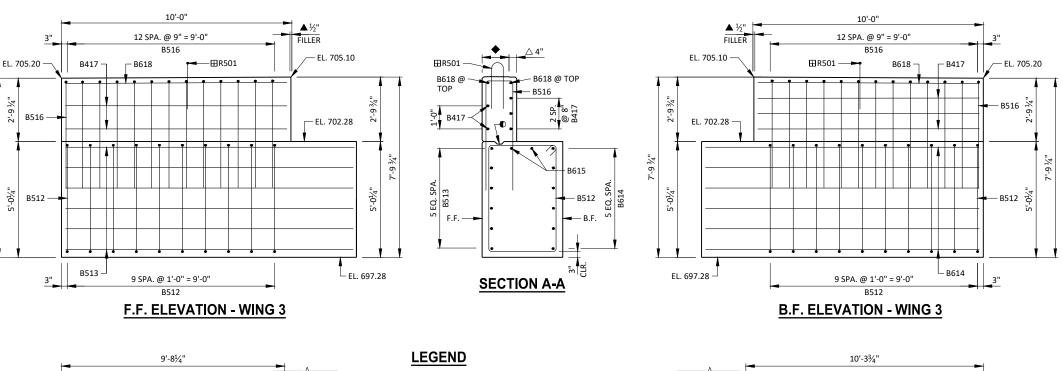
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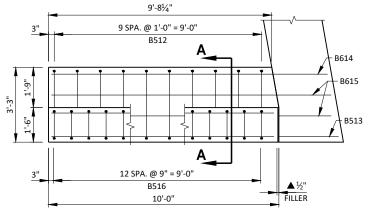
S:\PROJECTS\SD9070 SHEBOYGAN CO - CTH OO BRIDGE REPLACEMENT\STRUCTURE\CAD FILES\FINALS\04 - ABUTMENTS.DWG

8

PLOT SCALE :

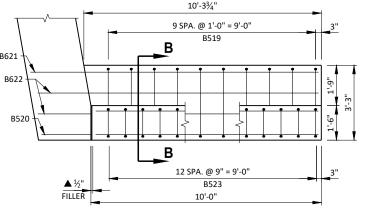




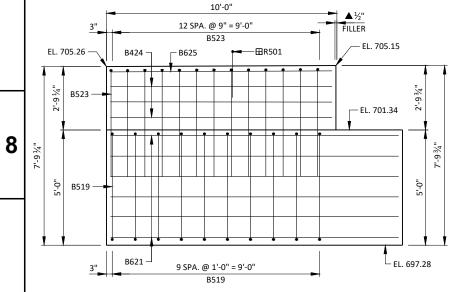


PLAN VIEW - WING 3

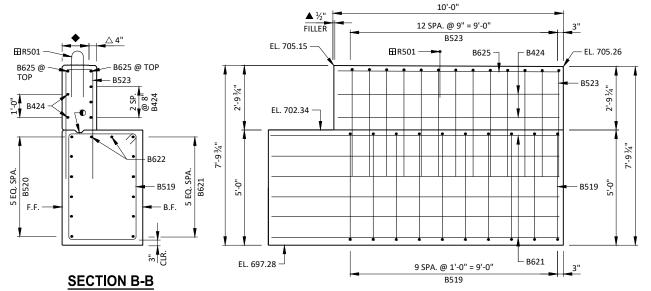
- OPTIONAL KEYED CONSTRUCTION JOINT FORMED BY SURFACED & BEVELED 2x6. ¾-INCH "V" GROOVE AT FRONT FACE OF WING WALL AND HORIZONTAL 18" RUBBERIZED MEMBRANE WATERPROOFING AT BACK FACE IF CONSTRUCTION JOINT IS USED. COST IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY BRIDGES".
- ▲ ½" FILLER EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINUOS JOINT SEALER. (1" DEEP & HOLD ½" BELOW SURFACE OF CONCRETE)
- ◆ CONSTRUCTION JOINT. STRIKE OFF AS SHOWN IN PARAPET DETAILS
- \triangle FINISH SURFACE NOT COVERED BY PARAPET SAME AS BRIDGE DECK.
- ☐ R501 BARS TO BE TIED TO WING STEEL BEFORE WING IS POURED. SEE SHEET 13 FOR PLACEMENT AND SHEET 10 FOR SPACING



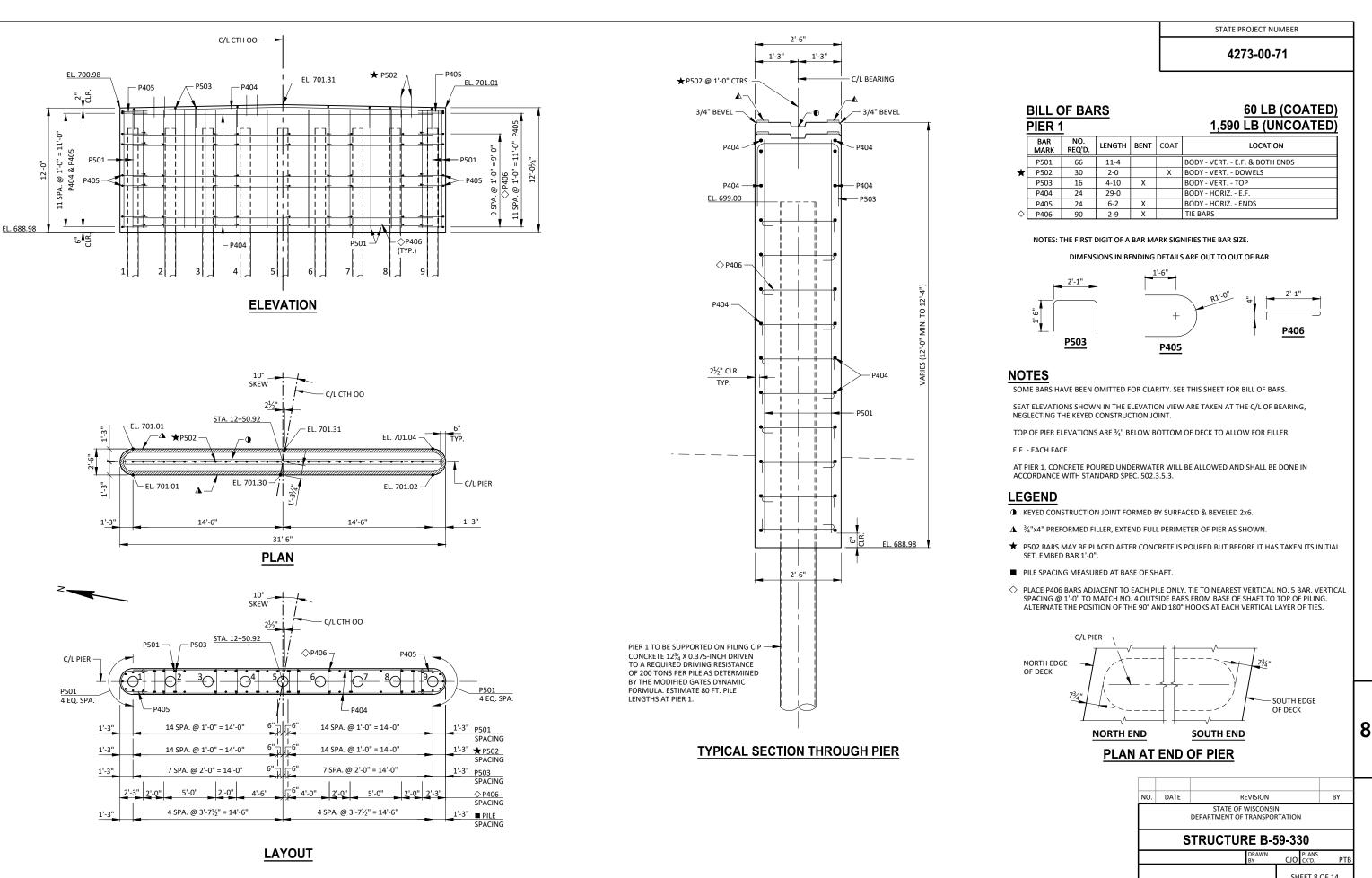
PLAN VIEW - WING 4



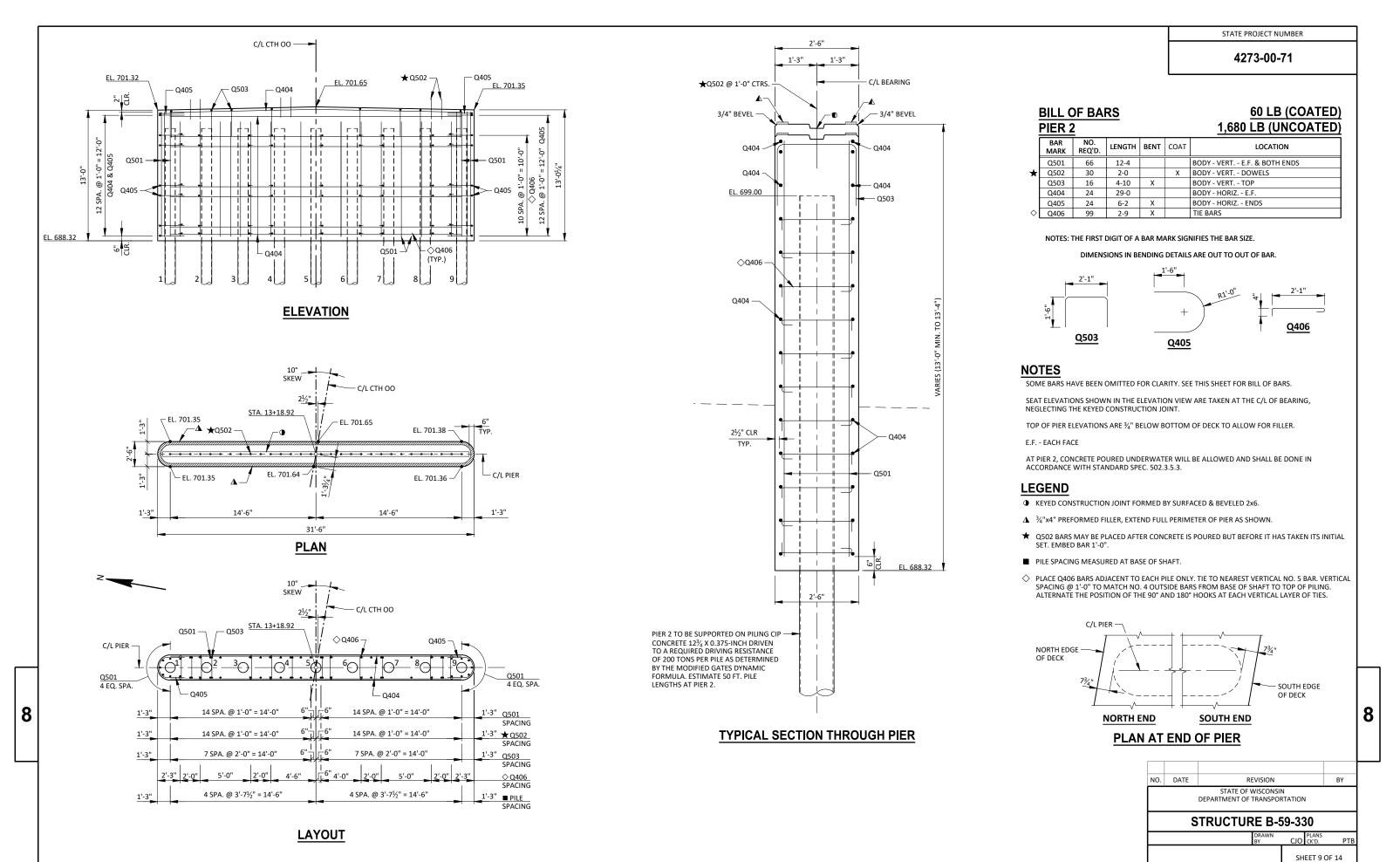
B.F. ELEVATION - WING 4



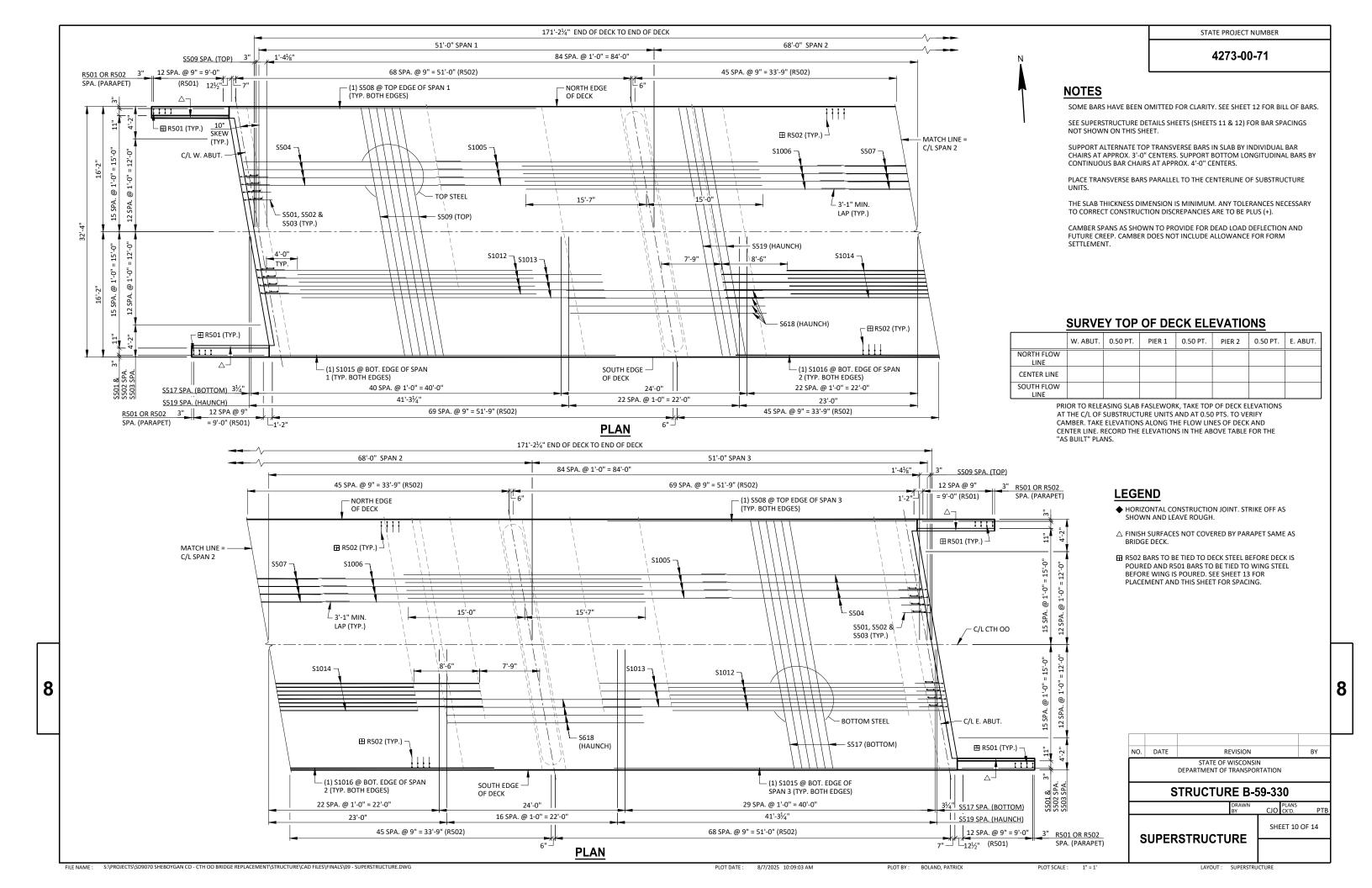
F.F. ELEVATION - WING 4

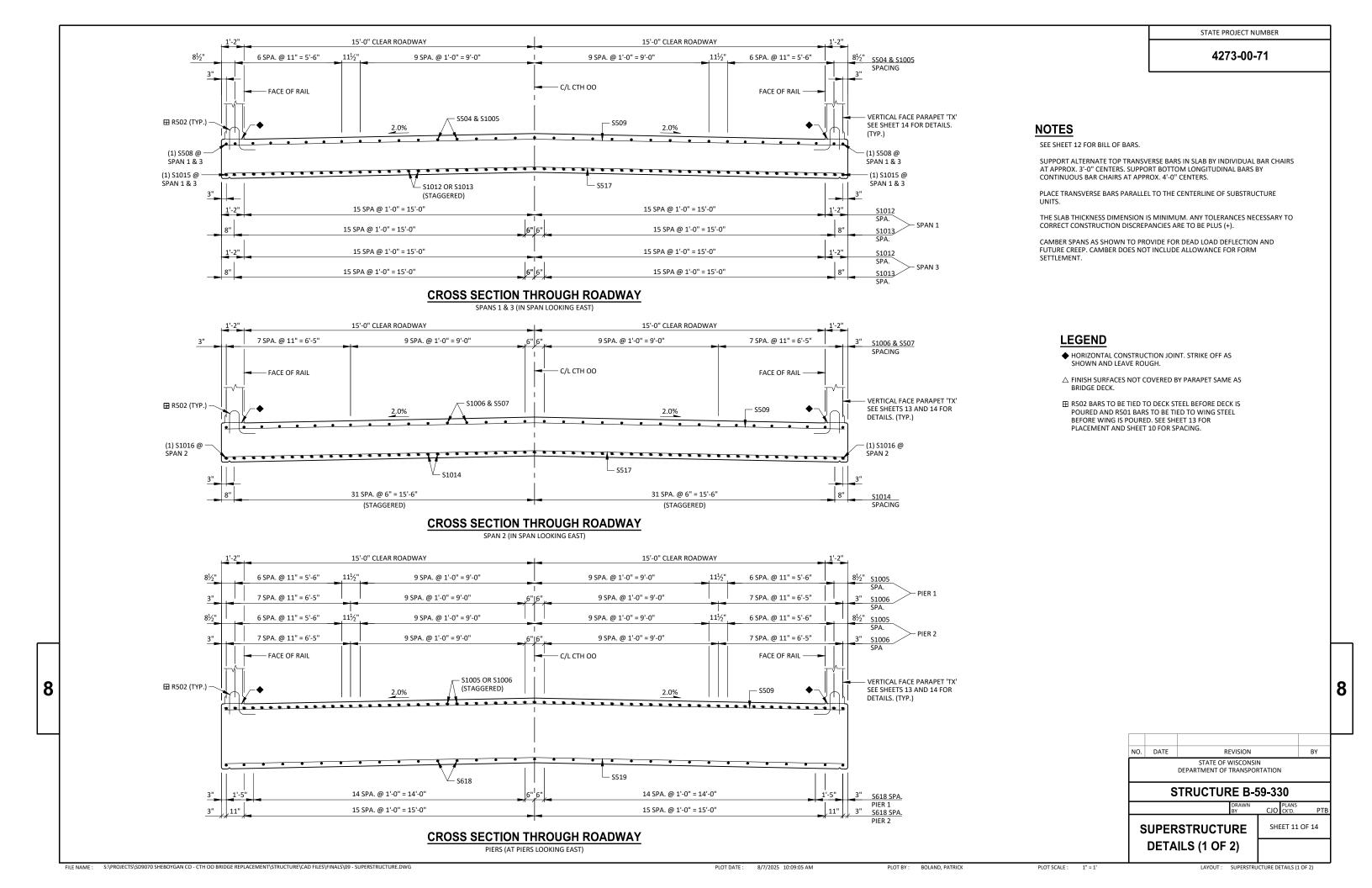


NO.	DATE		REVISION		BY								
		STATE C DEPARTMENT (OF WISCONSII OF TRANSPOR	-									
	STRUCTURE B-59-330												
			DRAWN BY	CJO CK'D.	S PTE								
		PIER 1		SHEET 8	3 OF 14								
		PIEKI											
			2152.4										



PIER 2

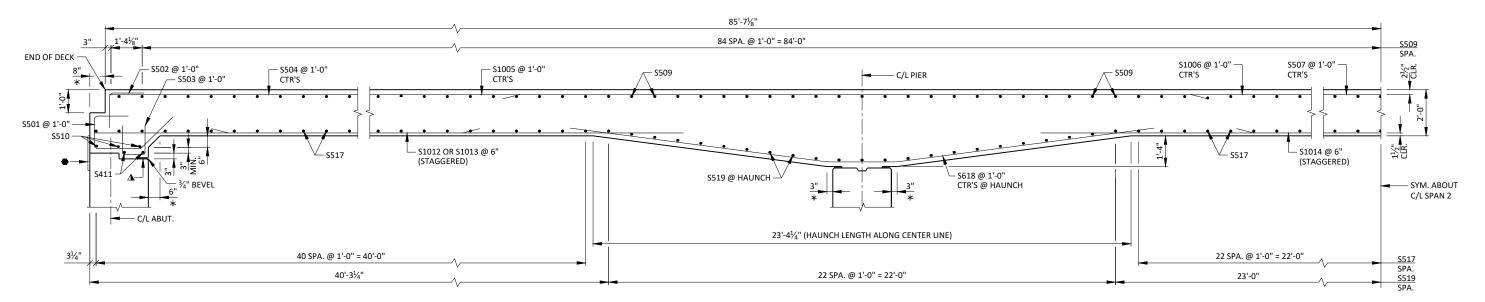




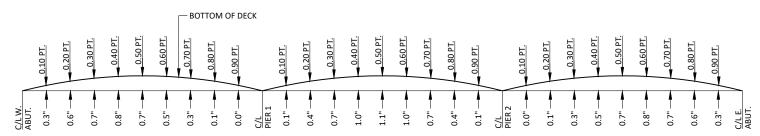
4273-00-71

TOP OF DECK ELEVATIONS

	C/L W.	0.10	0.20	0.30	0.40	0.50	0.60	0.70 PNT.	0.80	0.90	C/L	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	C/L	0.10	0.20	0.30	0.40	0.50	0.60 PNT.	0.70	0.80		C/L E.
	ABUT.	PNT.	PNT.	PNT.	PIER 1	PNT.	PIER 2	PNT.	PNT.	PNT.	PNT.	PNT.	PNT.	PNT.	PNT.	PNT.	ABUT.														
N. EDGE OF DECK	704.14	704.16	704.19	704.22	704.24	704.27	704.29	704.32	704.34	704.37	704.39	704.43	704.46	704.50	704.53	704.56	704.60	704.63	704.67	704.70	704.73	704.76	704.79	704.81	704.85	704.88	704.92	704.95	705.00	705.04	705.09
C/L																															705.41
S. EDGE OF DECK	704.17	704.19	704.22	704.24	704.27	704.29	704.32	704.34	704.37	704.39	704.42	704.45	704.49	704.52	704.56	704.59	704.62	704.66	704.69	704.73	704.76	704.79	704.81	704.85	704.88	704.92	704.96	705.00	705.04	705.09	705.14



PARTIAL LONGITUDINAL SECTION THROUGH ROADWAY



LEGEND

75,460 LB (COATED)

- 18" RUBBERIZED MEMBRANE WATERPROOFING. (HORIZONTAL)
- * DIMENSION IS NORMAL TO THE C/L OF SUBSTRUCTURE UNITS.
- $\Delta~~~\%''x4"$ preformed filler, extend full length of abutment between edges of slab.

CAMBER DIAGRAM

CAMBER SPAN AS SHOWN TO PROVIDE FOR THEORETICAL DEADLOAD DEFLECTION AND FUTURE PLASTIC FLOW. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

NOTES

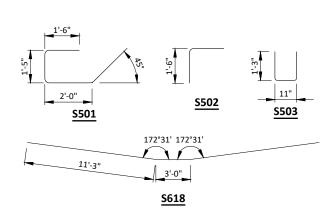
8

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 (+).

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



BILL OF BARS SUPERSTRUCTURE

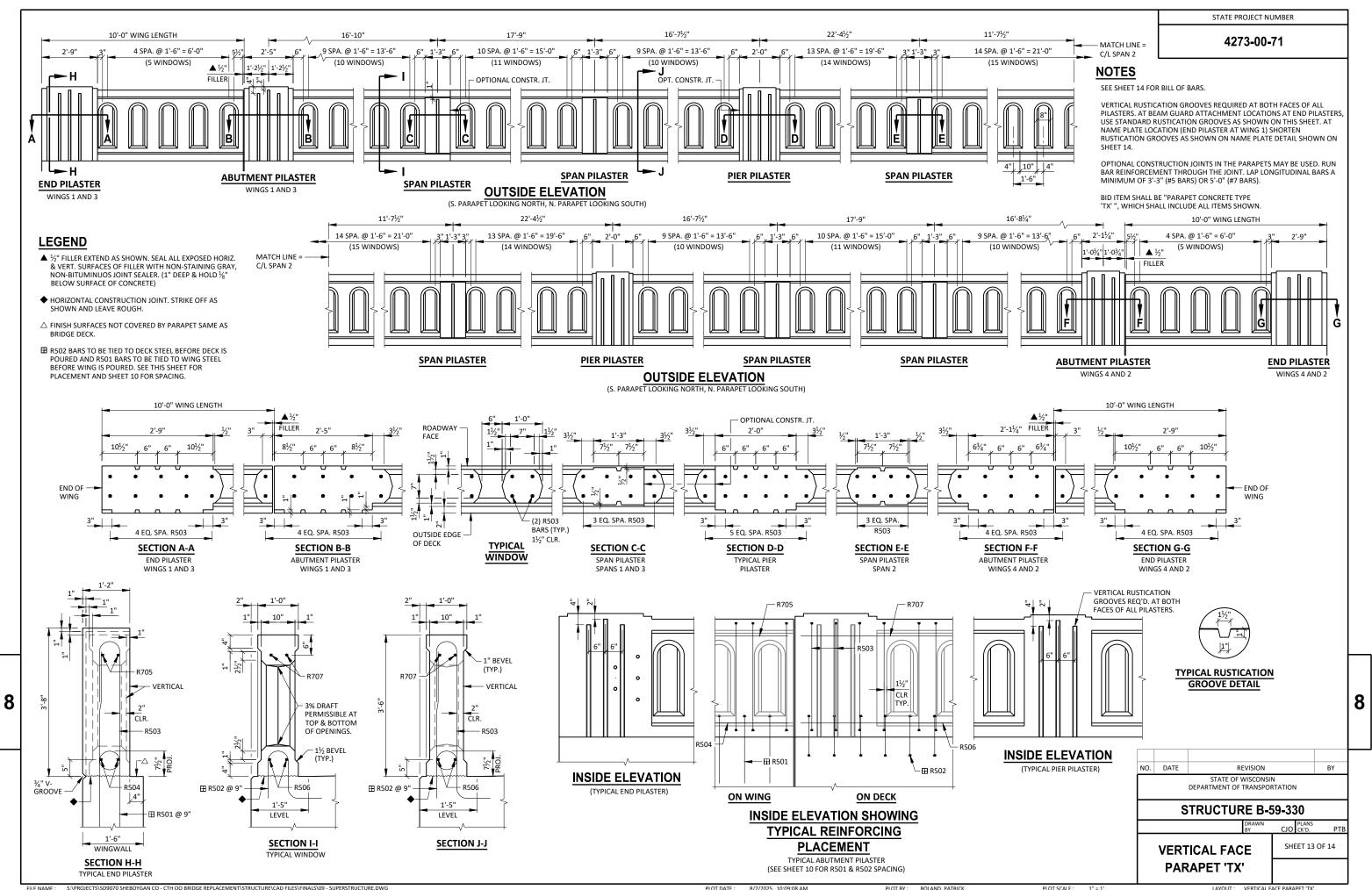
MARK	REQ'D.	LENGTH	BENT	COAT	LOCATION
S501	66	6-10	Х	Х	END OF DECK
S502	66	2-11	Х	Х	END OF DECK - TOP
S503	50	3-2	Х	Х	END OF DECK - BOTTOM
S504	66	28-1		Х	SLAB - TOP - LONG SPANS 1 & 3
S1005	66	41-6		Х	SLAB - TOP - LONG SPANS 1 & 3
S1006	68	41-3		Х	SLAB - TOP - LONG SPAN 2
S507	34	22-10		Х	SLAB - TOP - LONG SPAN 2
S508	4	40-0		Х	SLAB - TOP - LONG SPANS 1 & 3 - EDGES
S509	171	32-6		Х	SLAB - TOP - TRANS.
S510	6	32-6		Х	SLAB - TRANS. AT ABUTMENTS
S411	4	25-10		Х	SLAB - TRANS. AT ABUTMENTS - BOTTOM
S1012	62	35-6		Х	SLAB - BOTTOM - LONG SPANS 1 & 3
S1013	64	39-3		Х	SLAB - BOTTOM - LONG SPANS 1 & 3
S1014	63	44-0		Х	SLAB - BOTTOM - LONG SPAN 2
S1015	4	44-8		Х	SLAB - BOTTOM - LONG SPANS 1 & 3 - EDGES
S1016	2	52-6		Х	SLAB - BOTTOM - LONG SPAN 2 - EDGES
S517	127	32-6		Х	SLAB - BOTTOM - TRANS.
S618	65	25-7	Х	Х	SLAB - BOTTOM - HAUNCH - LONG.
S519	46	32-6		Х	SLAB - BOTTOM - HAUNCH - TRANS.

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.

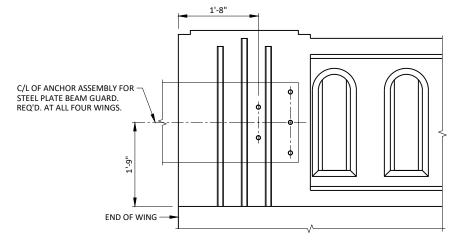
DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

NO.	NO. DATE REVISION										
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION										
	S	TRUCTUF	RE B-	59-33	30						
			DRAWN BY	CIO	PLANS CK'D.	PTB					
S	UPER	SHEET 12 OF 14									
	DETA	ILS (2 OF									

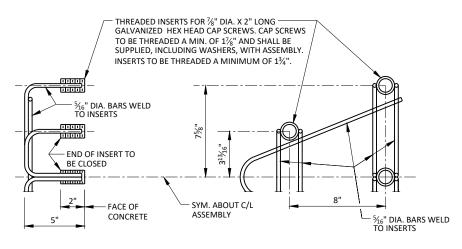
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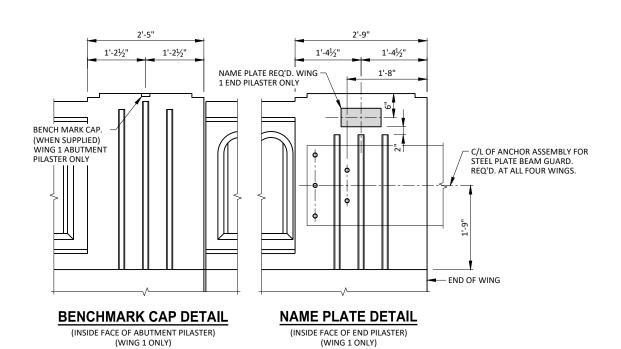
INSIDE ELEVATION
SHOWING TYPICAL BEAM
GUARD ATTACHMENT
(TYPICAL END PILASTER)

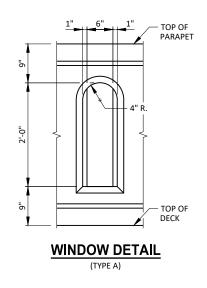


DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS AND WASHERS TO BE GALVANIZED IN ACCORDANCE WITH ASTM F2329.

ASSEMBLY BID ITEM SHALL BE "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.





NOTES

VERTICAL RUSTICATION GROOVES REQUIRED AT BOTH FACES OF ALL PILASTERS. AT BEAM GUARD ATTACHMENT LOCATIONS AT END PILASTERS, USE STANDARD RUSTICATION GROOVES AS SHOWN ON SHEET 13. AT NAME PLATE LOCATION (END PILASTER AT WING 1) SHORTEN RUSTICATION GROOVES AS SHOWN ON NAME PLATE DETAIL SHOWN ON THIS SHEET.

OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINFORCEMENT THROUGH THE JOINT. LAP LONGITUDINAL BARS A MINIMUM OF 3'-3" (#5 BARS) OR 5'-0" (#7 BARS).

BILL OF BARS

PARAPET

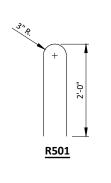
8,860 LB (COATED)

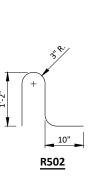
BAR MARK	NO. REQ'D.	LENGTH	BENT	COAT	LOCATION			
R501	52	4-4	Х	Х	PARAPET - VERT AT WINGS - BOT.			
R502	462	3-4	Х	Х	PARAPET - VERT AT DECK - BOT.			
R503	528	8-2	Х	Х	PARAPET - VERT.			
R504	8	9-7		Х	PARAPET - HORIZ AT WINGS - BOT.			
R705	8	9-7		Х	PARAPET - HORIZ AT WINGS - TOP			
R506	16	27-8		Х	PARAPET - HORIZ AT SPANS 1 & 3 - BOT. (3'-3" LAP)			
R707	16	28-7		Х	PARAPET - HORIZ AT SPANS 1 & 3 - TOP (5'-0" LAP)			
R508	8	35-6		Х	PARAPET - HORIZ AT SPAN 2 - BOT. (3'-3" LAP.)			
R709	8	36-4		Х	PARAPET - HORIZ AT SPAN 2 - TOP (5'-0" LAP)			

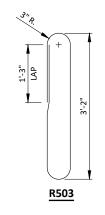
NOTES: THE FIRST DIGIT OF A BARK MARK SIGNIFIES THE BAR SIZE.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

BAR TABLE FOR INFORMATION ONLY. COST INCIDENTAL TO PARAPET CONCRETE TYPE 'TX'







8

NO.		BY				
		STATE OF N			ı	
	S	TRUCTUF	RE B-5	59-33	30	
			DRAWN BY	CJO	PLANS CK'D.	PT
		ICAL FAC	_	SHI	EET 14	OF 14
	PAR					
	D	ETAILS				

8

EARTHWORK-CTH OO

	AREA	(SF)	IN	CREMENTAL V	OL (CY)	CUMMULATIVE VOLUME (CY)							
STATION	CUT	FILL	CUT NOTE 1	FILL	FILL (25%) NOTE 2	CUT 1.00 NOTE 1	FILL	FILL (25%) NOTE 2	MASS ORDINATE NOTE 3				
10+45.78	17	71	0	0	0	0	0	0	0				
10+50	18	73	3	11	14	3	11	14	-11				
11+00	20	108	35	168	209	37	179	224	-186				
11+50	46	146	61	235	294	98	414	518	-419				
11+99	46	146	83	263	329	182	677	847	-665				
13+71	62	101	66	108	135	248	786	982	-734				
14+00	62	101	91	100	125	339	886	1107	-769				
14+50	36	7	63	10	13	402	896	1120	-719				
15+00	32	4	57	5	6	459	901	1126	-667				
15+50	30	1	15	1	1	474	902	1127	-653				
15+70	11	2	16	2	2	490	903	1129	-639				
16+00	19	1	10	1	1	500	904	1130	-630				
16+31.54	0	0	0	0	0	500	904	1130	-630				

NOTES:

1 - CUT

CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL

2 - FILL 25%

(UNEXPANDED FILL)*1.25

3 - MASS ORDINATE

CUT + ROCK (10%) + REDUCED MARSH (60%) - FILL (25%)

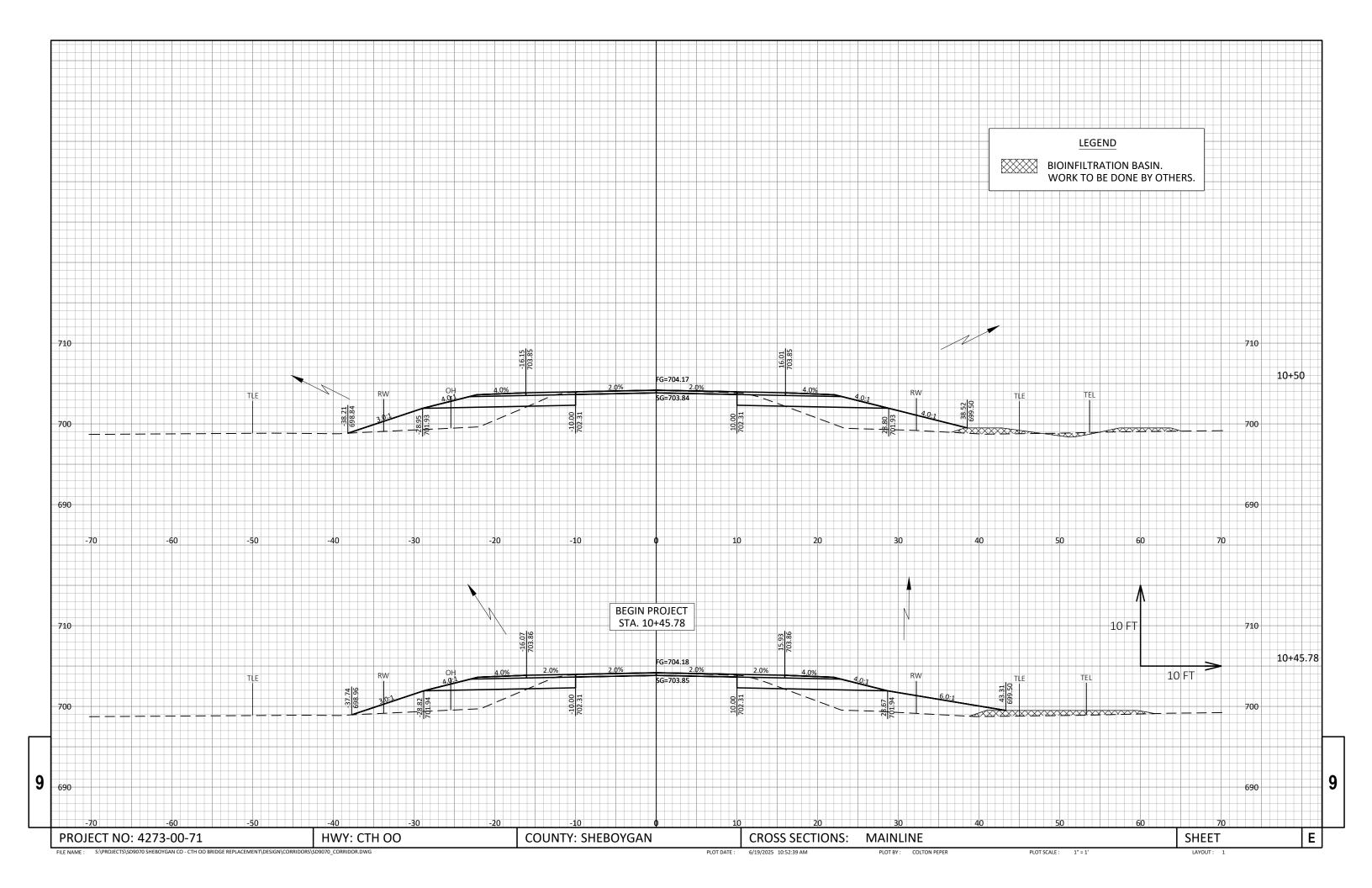
1,130

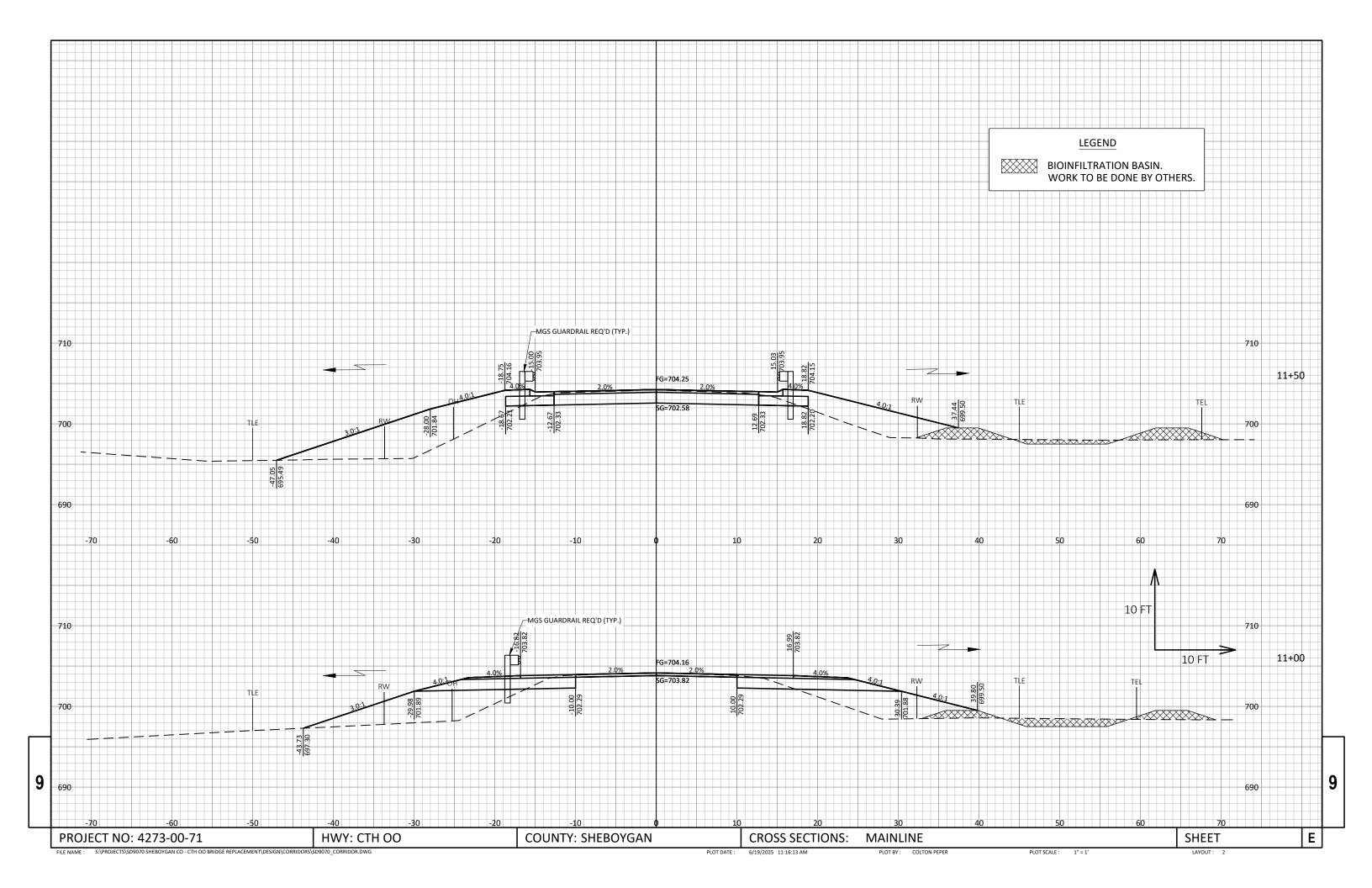
COLUMN TOTALS = 500

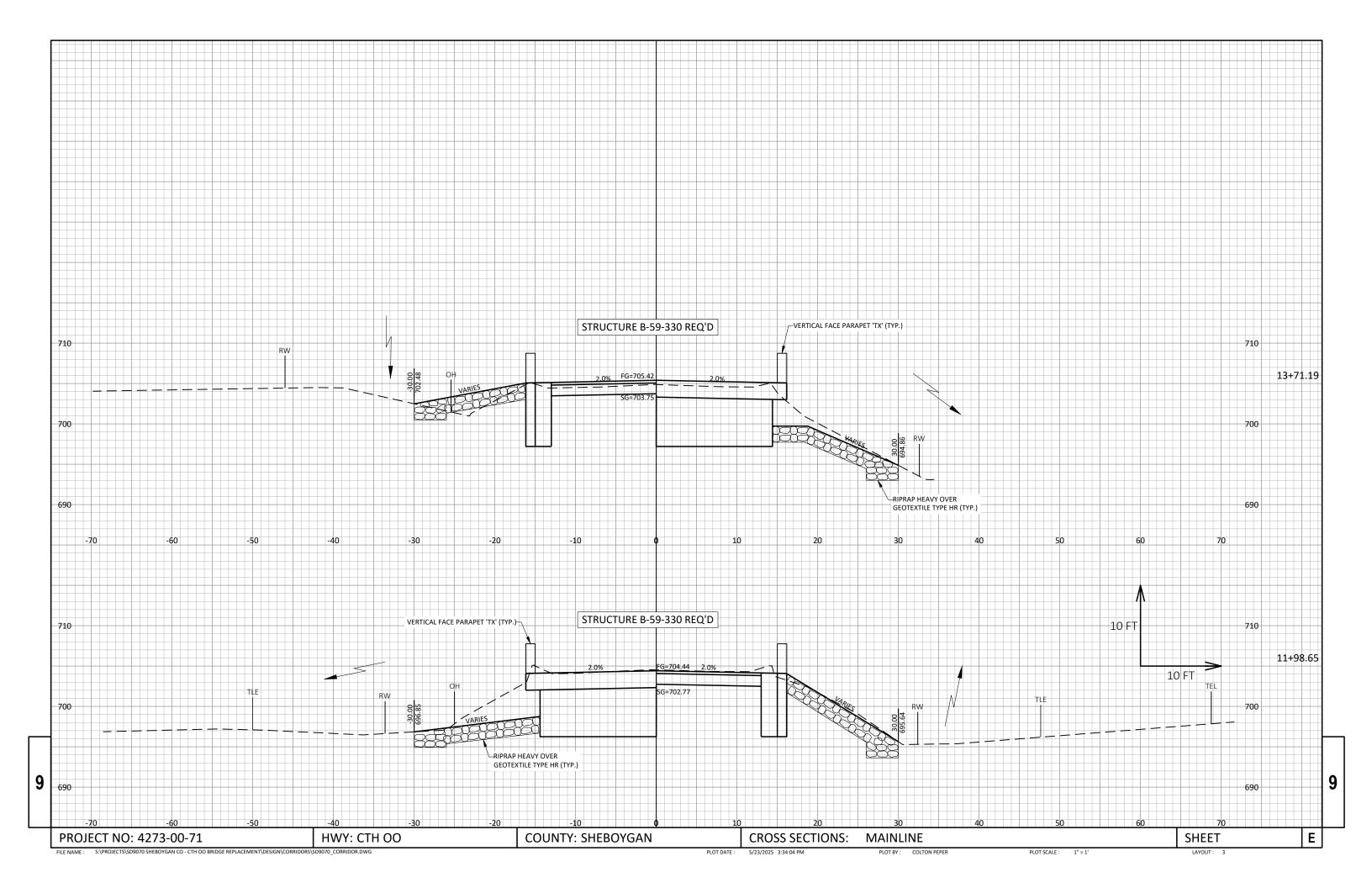
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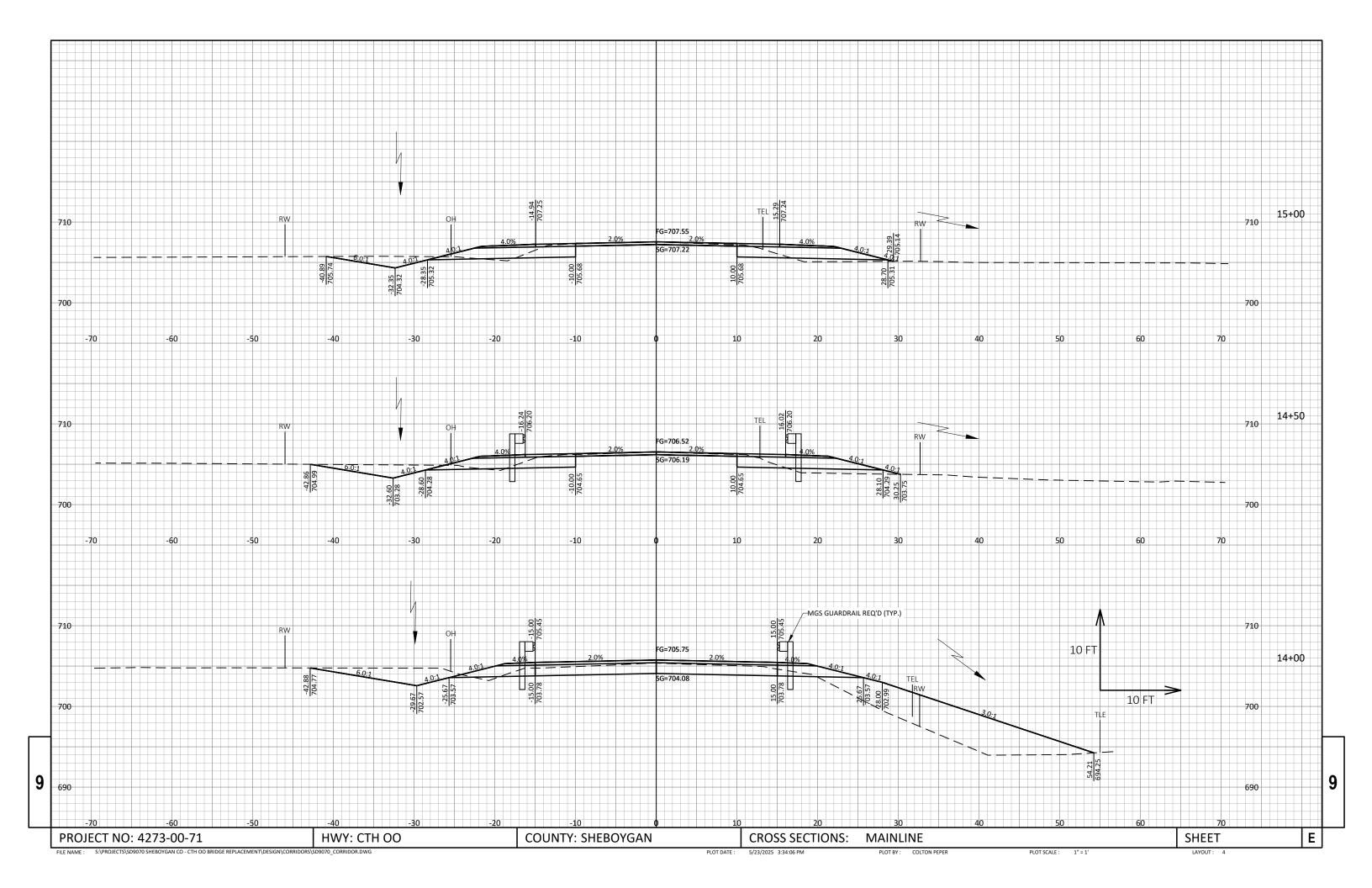
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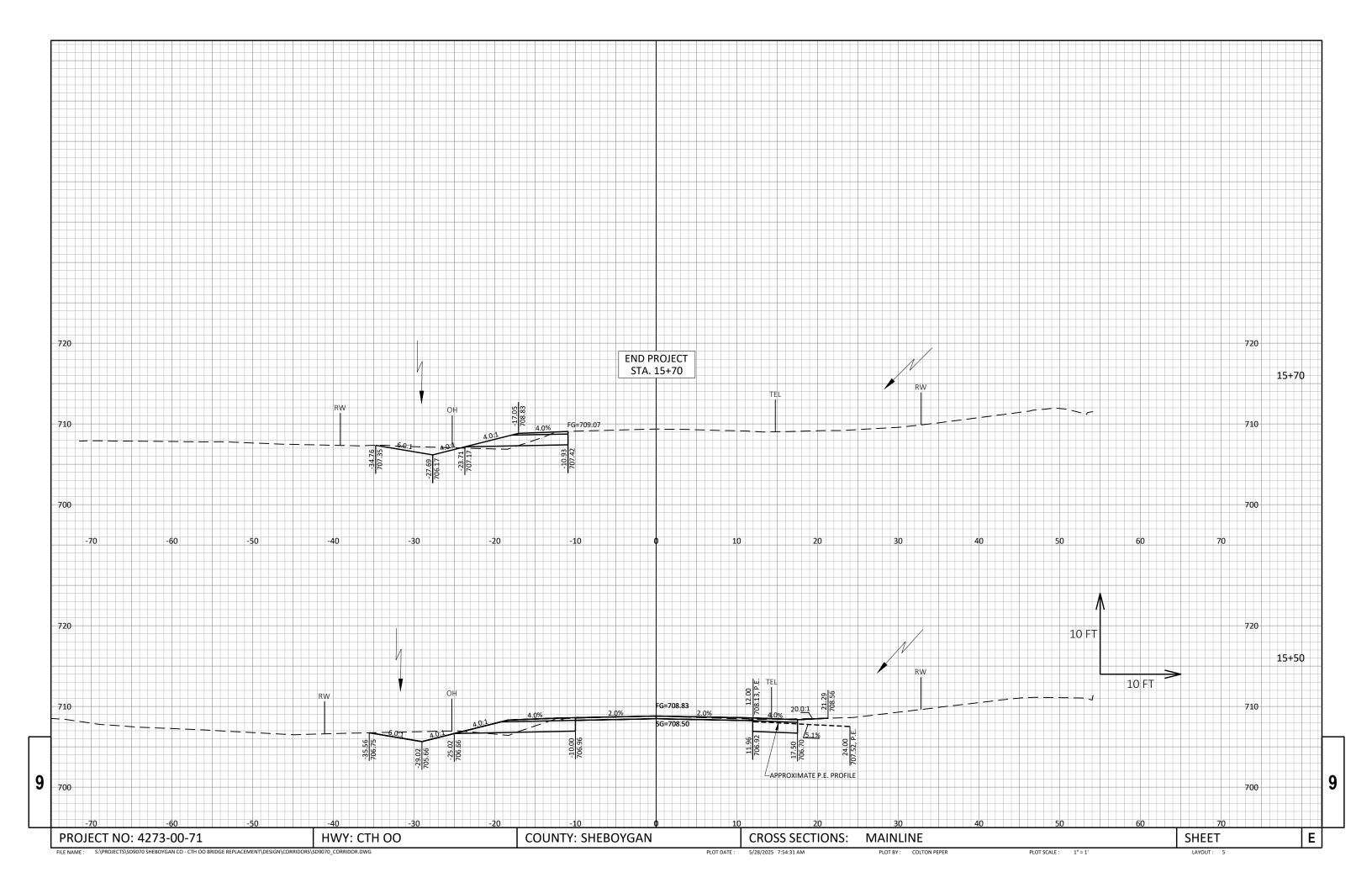
PROJECT NO: 4273-00-71 HWY: CTH OO COUNTY: SHEBOYGAN EARTHWORK TABLE SHEET **E**

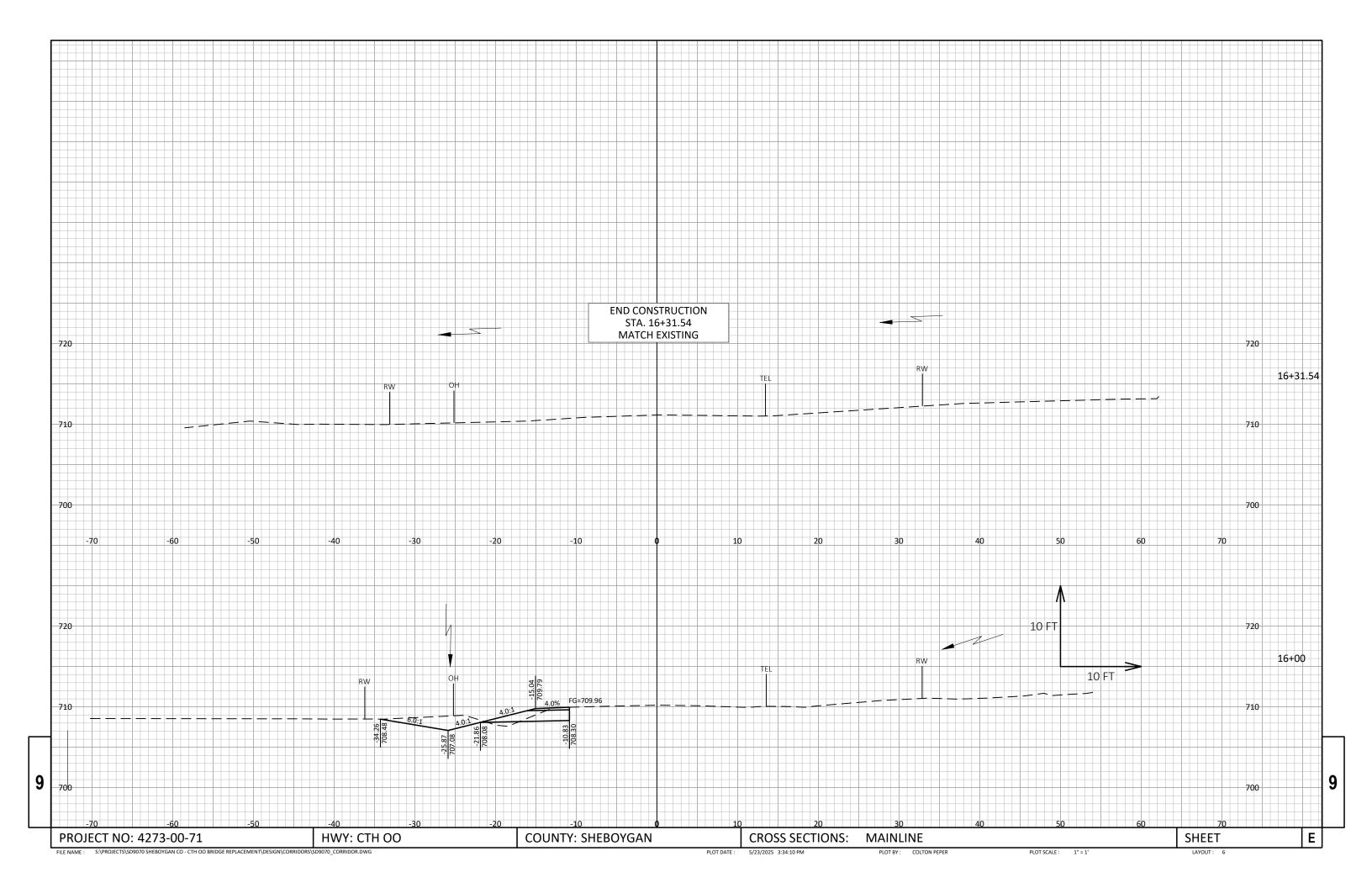


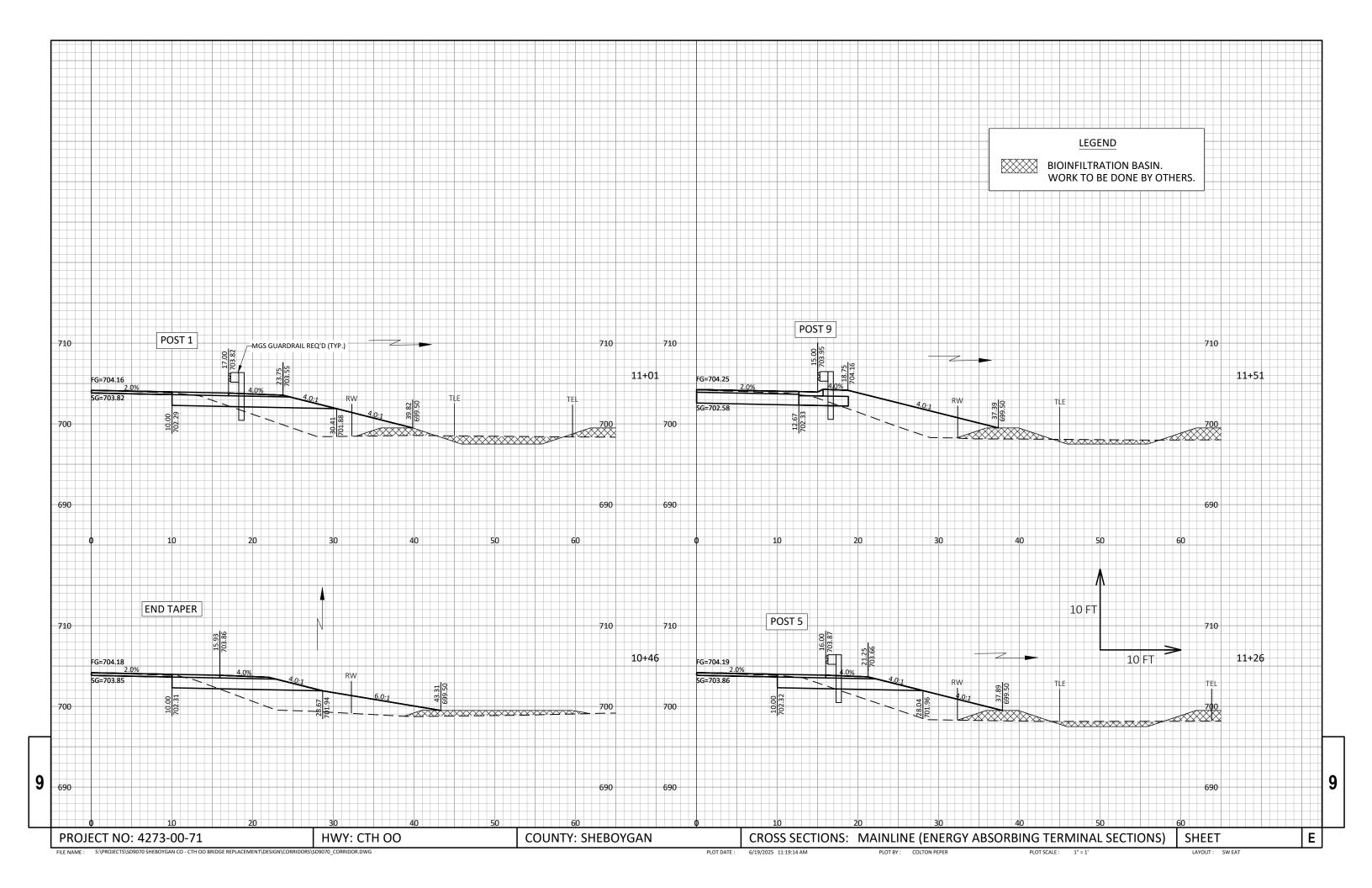


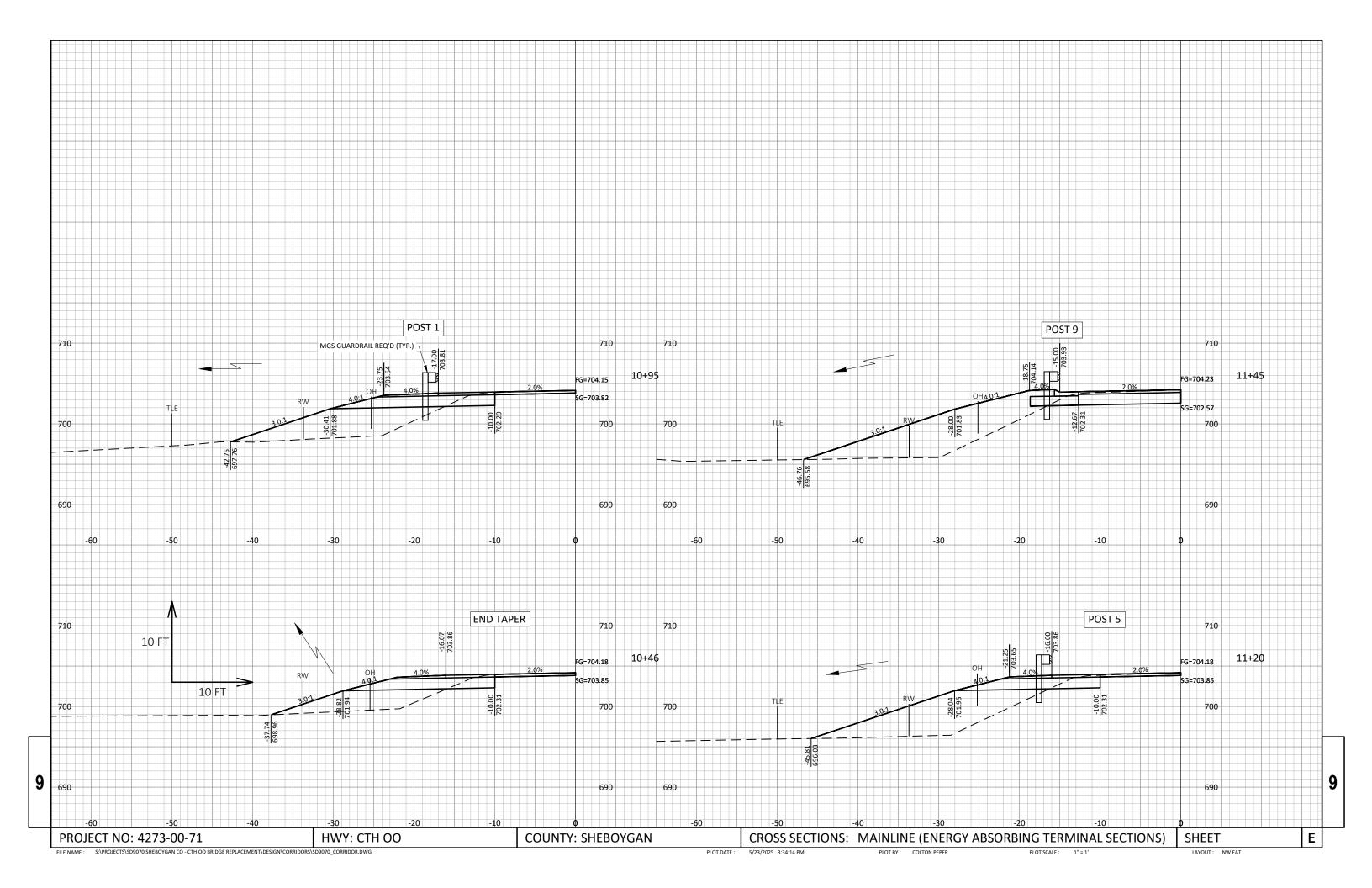


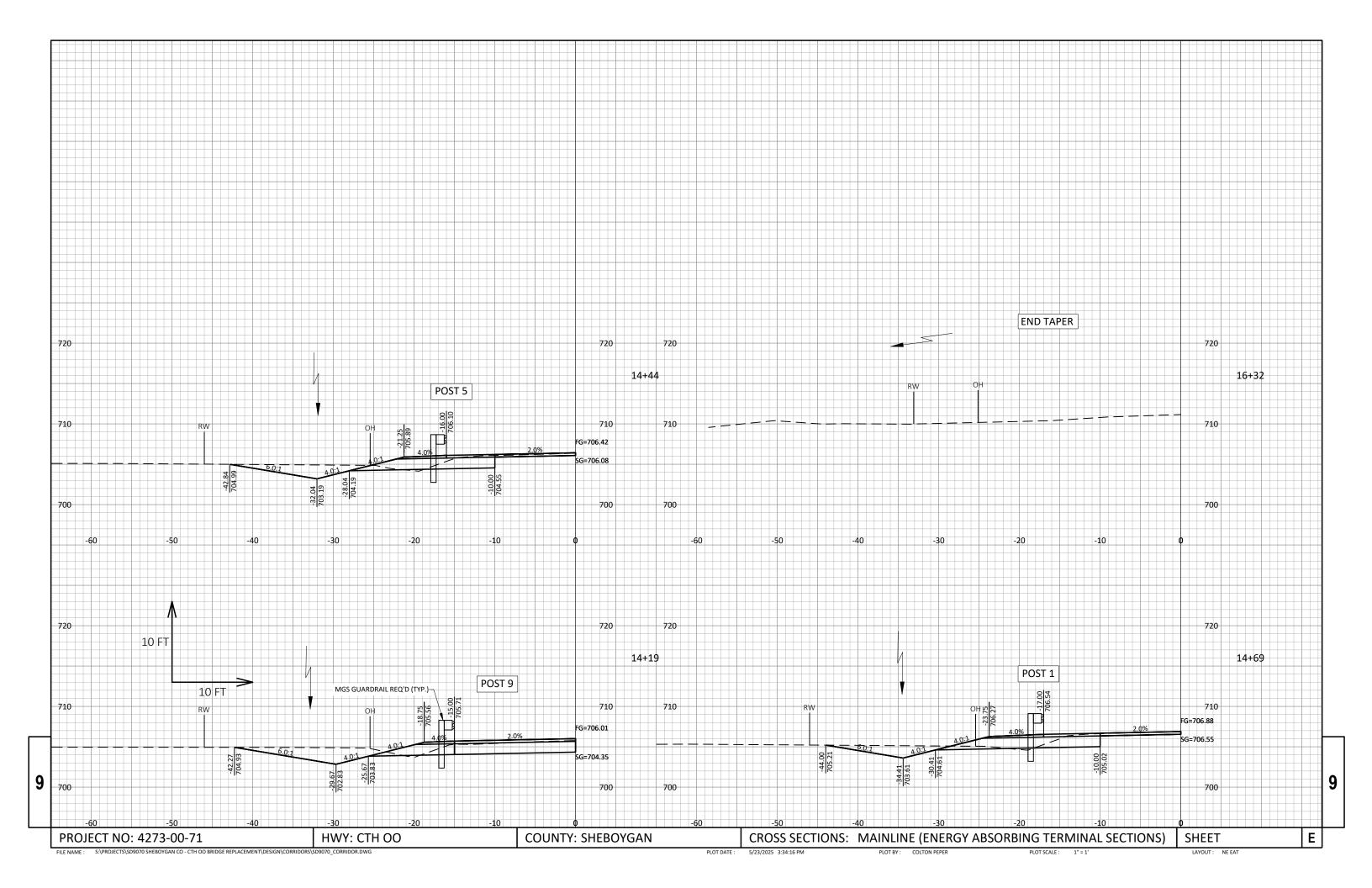


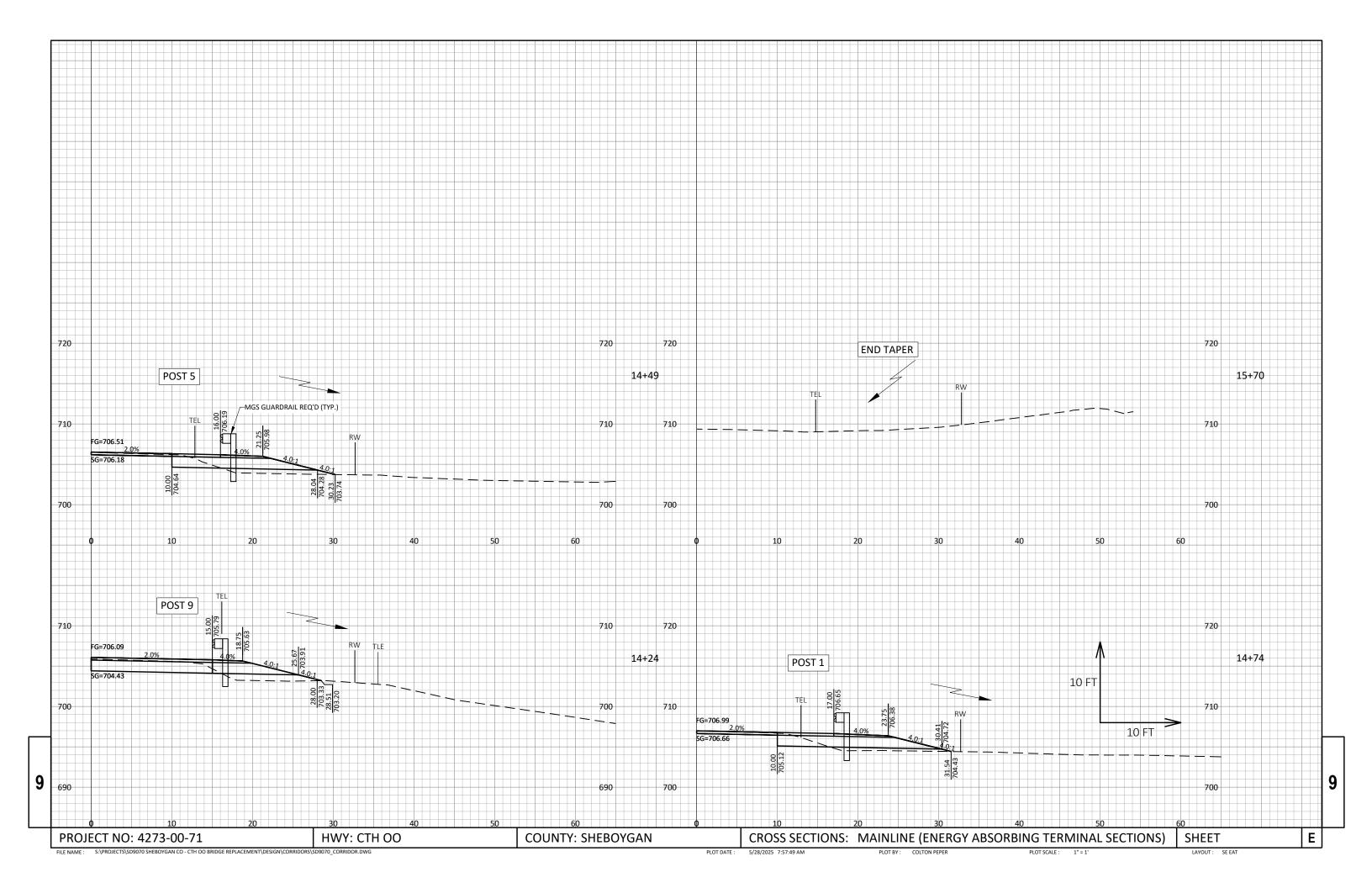














Wisconsin Department of Transportation

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