DECEMBER 2025

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

Diabt of Way Dla

Plan and Profile

Cross Sections

Section No.

TOTAL SHEETS = 66

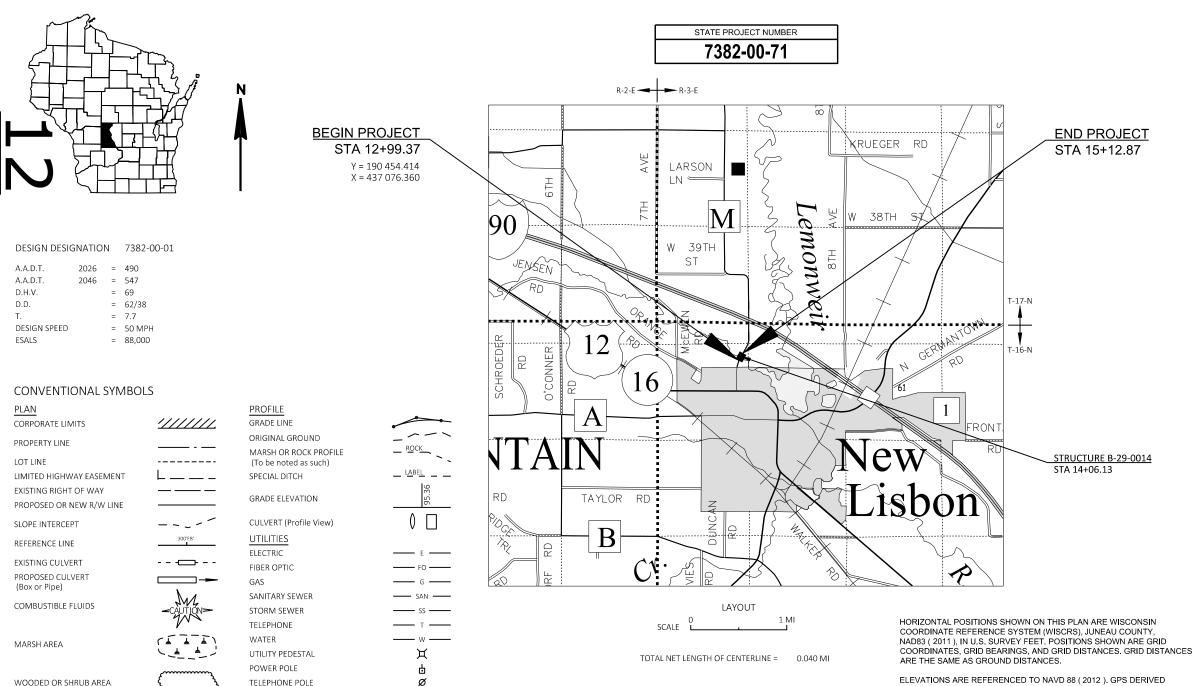
STATE OF WISCONSIN ORDER OF SHEETS DEPARTMENT OF TRANSPORTATION Typical Sections and Details Estimate of Quantities

PLAN OF PROPOSED IMPROVEMENT

C NEW LISBON - IH 90

LTL LEMONWEIR RVR BRIDGE B-29-0168

CTH M JUNEAU COUNTY



ACCEPTED FOR JUNEAU COUNTY Travis Schult: (Signature and Title of Official) ORIGINAL PLANS PREPARED BY **WESTBROOK** 619 EAST HOXIE STREET P.O. BOX 429 SPRING GREEN, WISCONSIN 53588 PHONE (608) 588-7866 FAX (608) 588-7954 Wiscons PALMER PROS E-35695 RICHLAND CENTER, STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY WESTBROOK ASSOCIATED ENGINEERS, INC Surveyor WESTBROOK ASSOCIATED ENGINEERS, INC Designer Project Manage

FEDERAL PROJECT

PROJECT

NA

CONTRACT

STATE PROJECT

7382-00-71

KYLE HEMP, P.E.

Digitally signed by Della Koenig P.E. Date: 2025.07.16 09:45:22-05'00'

Ε

FILE NAME: G:\00-PROJECT FILES\2024\24161 ID 7382-00-01, CTH M, LITTLE LEMONWEIR RIVER, JUNEAU CO\0-CAD\SHEETS\010101_TI.DWG

4/24/2025 2:38 PM

ELEVATIONS ARE BASED ON GEOID 18.

STANDARD ABBREVIATIONS

	STANDAR	RD ABBREVIATION	S
ABUT	ABUTMENT	LF	LINEAR FOOT
AC	ACRE	LC	LONG CHORD OF CURVE
AGG	AGGREGATE	LS	LUMP SUM
AH	AHEAD	MGAL	ONE THOUSAND GALLONS
_	ANGLE	ML OR M/L	MATCH LINE
AADT	ANNUAL AVERAGE DAILY TRAFFIC	NOM	NOMINAL
AEW	APRON ENDWALL	NC	NORMAL CROWN
ASPH	ASPHALTIC	NO	NUMBER
BK	BACK	OD	OUTSIDE DIAMETER
BAD	BASE AGGREGATE DENSE	PAVT	PAVEMENT
BL OR B/L	BASE LINE	PC	POINT OF CURVATURE
BM	BENCH MARK	PI	POINT OF INTERSECTION
CL OR C/L	CENTER LINE	PT	POINT OF TANGENCY
Δ	CENTRAL ANGLE OR DELTA	PCC	PORTLAND CEMENT CONCRETE
CONC	CONCRETE	LB	POUND
CONST	CONSTRUCTION	PSI	POUNDS PER SQUARE INCH
CP	CONTROL POINT	PE	PRIVATE ENTRANCE
CO	COUNTY	PROJ	PROJECT
CTH	COUNTY TRUNK HIGHWAY	PL	PROPERTY LINE
CY	CUBIC YARD	PRW	PROPOSED RIGHT OF WAY
D	DEGREE OF CURVE	R	RADIUS
DHV	DESIGN HOUR VOLUME	RL OR R/L	REFERENCE LINE
DIA	DIAMETER	REQD	REQUIRED
DD	DIRECTIONAL DISTRIBUTION	RT	RIGHT
DWY	DRIVEWAY	R/W	RIGHT OF WAY
EA	EACH	RD	ROAD
EL OR ELEV	ELEVATION	RDWY	ROADWAY
EMB	EMBANKMENT	SHLDR	SHOULDER
EAT	ENERGY ABSORBING TERMINAL	SW	SIDEWALK
ESALS	EQUIVALENT SINGLE AXLE LOADS	SPECS	SPECIFICATIONS
EXC	EXCAVATION	SF	SQUARE FEET
EBS	EXCAVATION BELOW SUBGRADE	SY	SQUARE YARD
EXIST	EXISTING	SDD	STANDARD DETAIL DRAWINGS
FERT	FERTILIZER	STA	STATION
FE	FIELD ENTRANCE	SE	SUPERELEVATION
FL OR F/L	FLOW LINE	SL OR S/L	SURVEY LINE
FT	FOOT	TEMP	TEMPORARY
HE	HIGHWAY EASEMENT	T	TRUCKS (PERCENT OF)
CWT	HUNDRED WEIGHT	TYP	TYPICAL
IN DIA	INCH DIAMETER	VAR	VARIABLE
ID	INSIDE DIAMETER	VC	VERTICAL CURVE
INTERS	INTERSECTION	VPC	VERTICAL POINT OF CURVATURE
INV	INVERT	VPI	VERTICAL POINT OF INTERSECTION
JT	JOINT	VPT	VERTICAL POINT OF TANGENCY
LT	LEFT	W	WEST
L	LENGTH OF CURVE		

WISCONSIN DNR LIAISON

KAREN KALVELAGE WISDOT SW REGION 3550 MORMON COULEE ROAD LA CROSSE, WI 54601 PHONE: (608) 406-7880

EMAIL: karenkalvelage@wisconsin.gov COUNTY HIGHWAY COMMISSIONER

EMAIL: tschultz@juneaucountywi.gov

TRAVIS SCHULTZ
JUNEAU COUNTY
930 EAST STATE STREET
MAUSTON, WI 53948
PHONE: (608) 847-9543

DESIGN PROJECT MANAGER

DELLA KOENIG, P.E. SOUTHWEST REGION 2101 WRIGHT STREET MADISON, WI 53704 PHONE: (608) 246-7963 EMAIL: della.koenig@dot.wi.gov

DESIGN LIAISON

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619 EAST HOXIE STREET
SPRING GREEN, WI 53588
PHONE: (608) 588-7866
EMAIL: apalmer@westbrookeng.com

UTILITIES CONTACTS

LEMONWEIR VALLEY TELEPHONE COMPANY COMMUNICATION LINE BEN GRILLEY 127 US HWY 12/16 CAMP DOUGLAS, WI 54618 PHONE: (608) 427-4036

EMAIL: Ben.Grilley@getlynxx.com

OAKDALE ELECTRIC COOPERATIVE
ELECTRICITY-TRANSMISSION
DAN MCGARRY
PO BOX 40
OAKDALE, WI 54649
PHONE: (608) 372-8850
EMAIL: dmcgarry@oakdalerec.coop



RUNOFF COEFFICIENT TABLE

					ŀ	HYDROLOGIC	SOIL GI	ROUP					
		А			В			С			D		
	SLOPE	SLOPE RANGE (PERCENT) SI		SLOPE	SLOPE RANGE (PERCENT)		SLOPE	RANGE	(PERCENT)	SLOPE RANGE (PERCENT)			
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
ROW CROPS:	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38	
NOW CROPS.	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56	
MEDIAN STRIPTURF:	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30	
IVIEDIAN STRIFTORF.	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40	
SIDE SLOPETURF:			.25			.27			.28			.30	
SIDE SLOPETORF.			.32			.34			.36			.38	
PAVEMENT:													
ASPHALT:						.70 -	95						
CONCRETE:						.80	95						
BRICK:						.70 -	.7080						
DRIVES, WALKS:	.7585												
ROOFS:						.75 -	95						
GRAVEL ROADS, SHOULDERS:					.4060								

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
TYPICAL SECTIONS
GUARDRAIL DETAILS
CONSTRUCTION DETAILS
PERMANENT SIGNING AND PAVEMENT MARKING
ALIGNMENT DETAILS AND CONTROL POINT TIES

GENERAL NOTES

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

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS, OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LBS/SY/IN.

APPLY TACK COAT BETWEEN LAYERS OF HMA PAVEMENT AT A RATE OF 0.05 GAL/SY.

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

RIGHT OF WAY INFORMATION SHOWN ON THE PLANS IS APPROXIMATE.

THE CONTRACTOR IS TO WORK WITH UTMOST CARE AND PROTECT ALL SURVEY MARKERS. REMOVAL OF ANY SURVEY MARKER IS TO BE WITH THE APPROVAL OF THE ENGINEER.

WHEN THE QUANTITY OF THE ITEMS OF BASE AGGREGATE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYERS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL PREPARE AN EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND SUBMIT THE PLAN TO WISDOT AND WDNR FOR REVIEW AT LEAST 14 DAYS PRIOR TO THE PRECONSTRUCTION CONFERENCE.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT APPROXIMATE LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND APPROVED BY THE ENGINEER. MAINTAIN EROSION CONTROL MEASURES UNTIL SUCH A TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY

APPLY SEED, MULCH, OR EROSION MAT, AND FERTILIZER TO ALL DISTURBED AREAS WITHIN 7 WORKING DAYS AFTER GRADING WORK IS COMPLETE.

SLOPES STEEPER THAN 3:1 REQUIRE EROSION MAT.

THE PROPOSED SHOULDER WIDTH SHOWN IN THE TYPICAL SECTIONS ARE MINIMUM WIDTH. PERPETUATE EXISTING SHOULDERS THAT ARE WIDER THAN WHAT IS SHOWN IN THE TYPICAL SECTIONS.

THE CONTRACTOR'S PAVING OPERATION SHALL BE CONSISTENT WITH THE TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING, OR PARKING LANE.

SAWCUTS, AS SHOWN ON THE PLANS, ARE SUGGESTED LOCATIONS AND MAY BE ADJUSTED AT THE DISCRETION OF THE ENGINEER TO BETTER SUIT FIELD CONDITIONS.

PRIOR TO PLACEMENT OF BEAM GUARD THE SHOULDERS SHALL BE IN PLACE, SHAPED AND COMPACTED.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

DO NOT DRIVE OR STORE EQUIPMENT, OR STORE CONSTRUCTION MATERIALS IN ENVIRONMENTALLY SENSITIVE AREAS, WETLANDS OR WATERWAYS.

PROJECT NO: 7382-00-71 HWY: CTH M

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.76 ACRES

TOTAL PROJECT AREA = <u>0.87</u> ACRES

COUNTY: JUNEAU

GENERAL NOTES

PLOT BY: ERIC

PLOT NAM

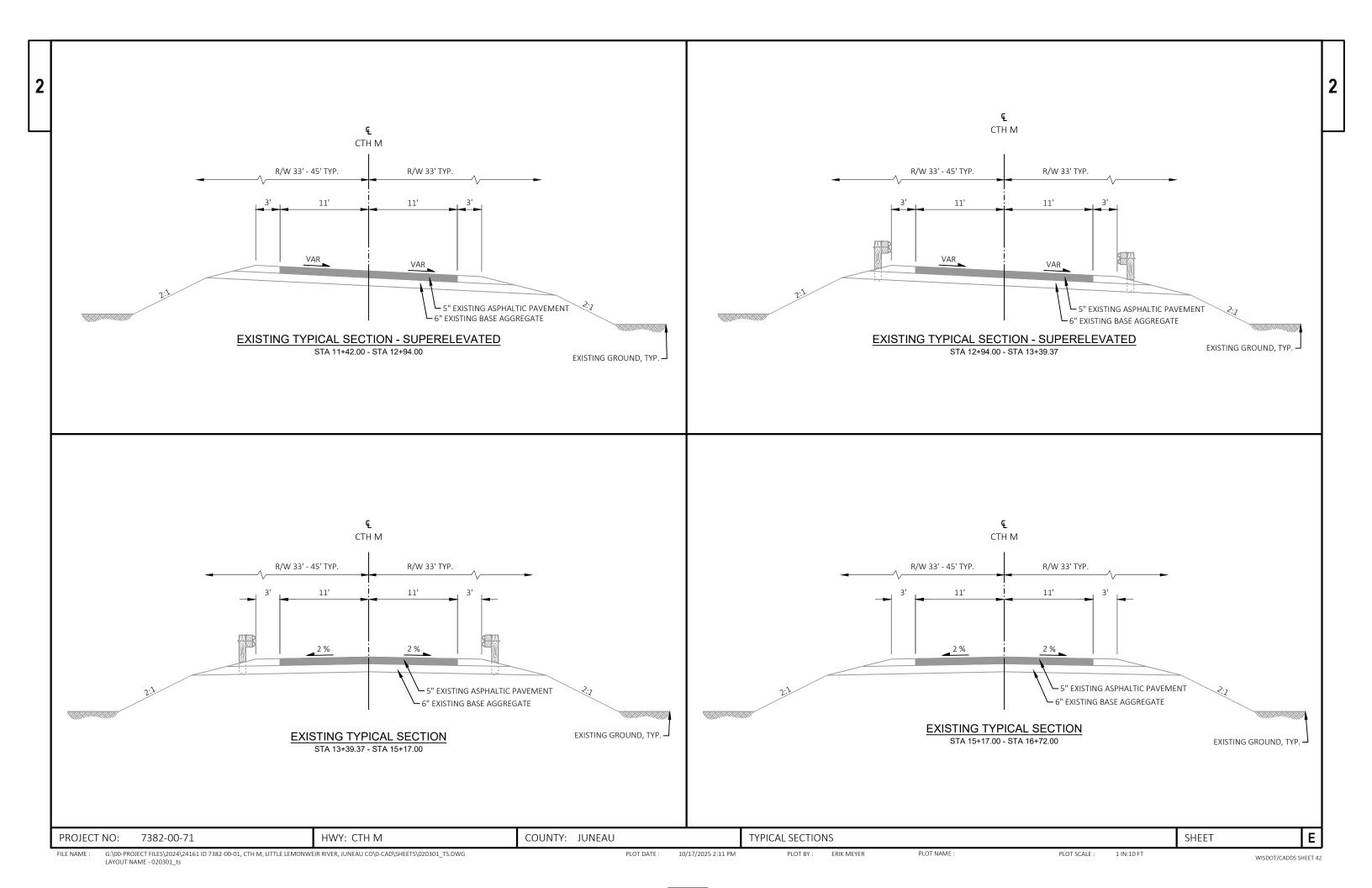
SHEET

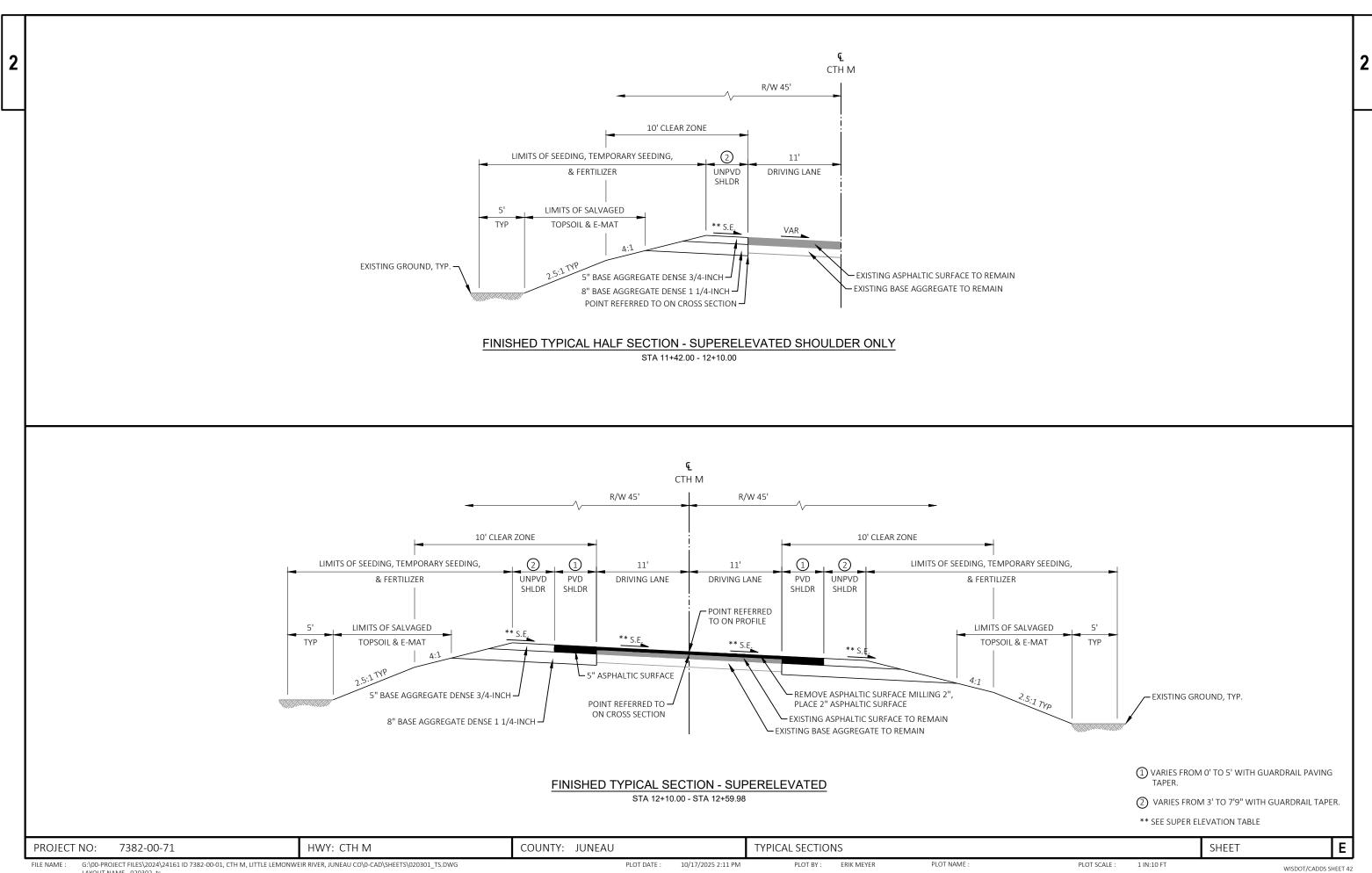
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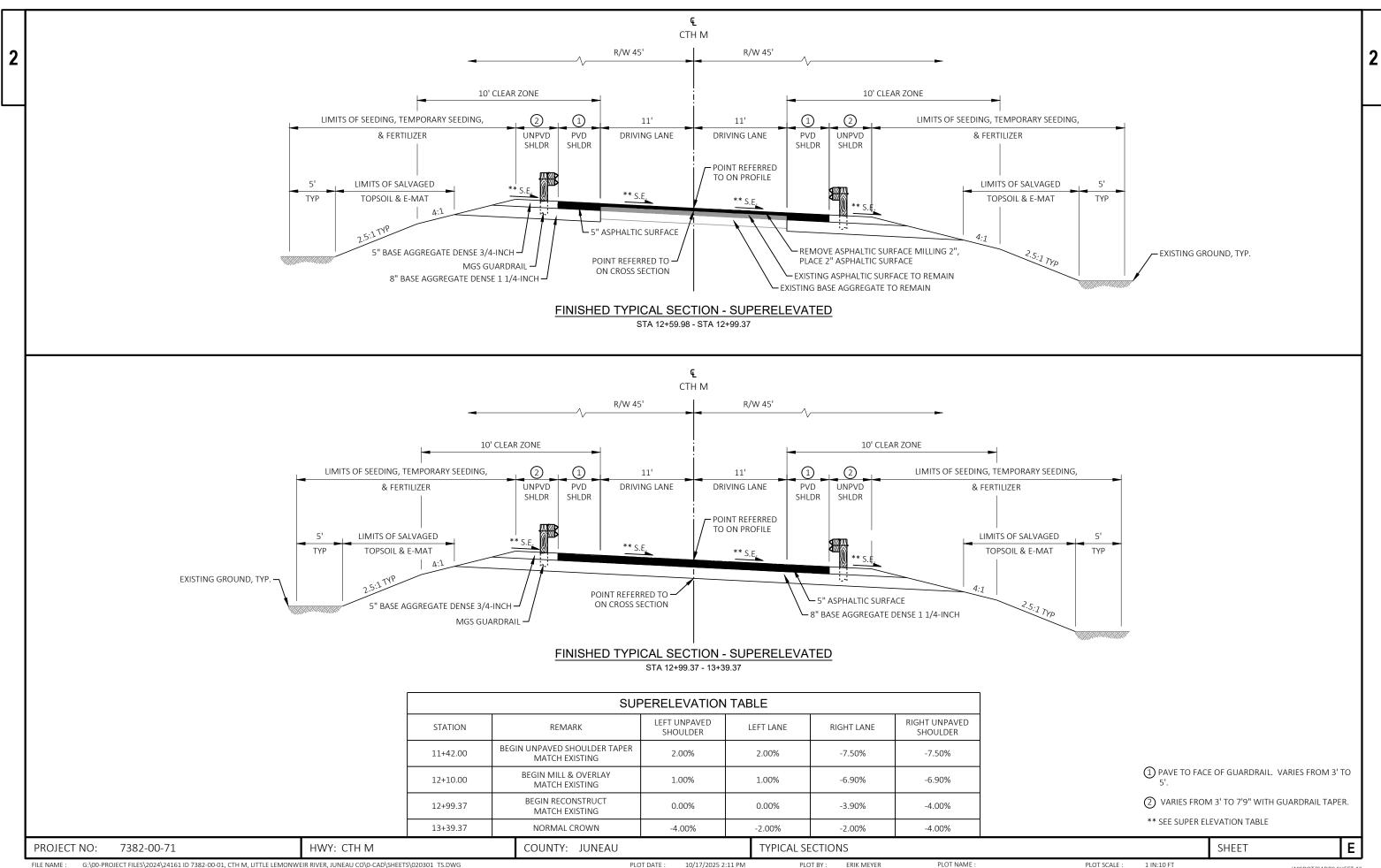
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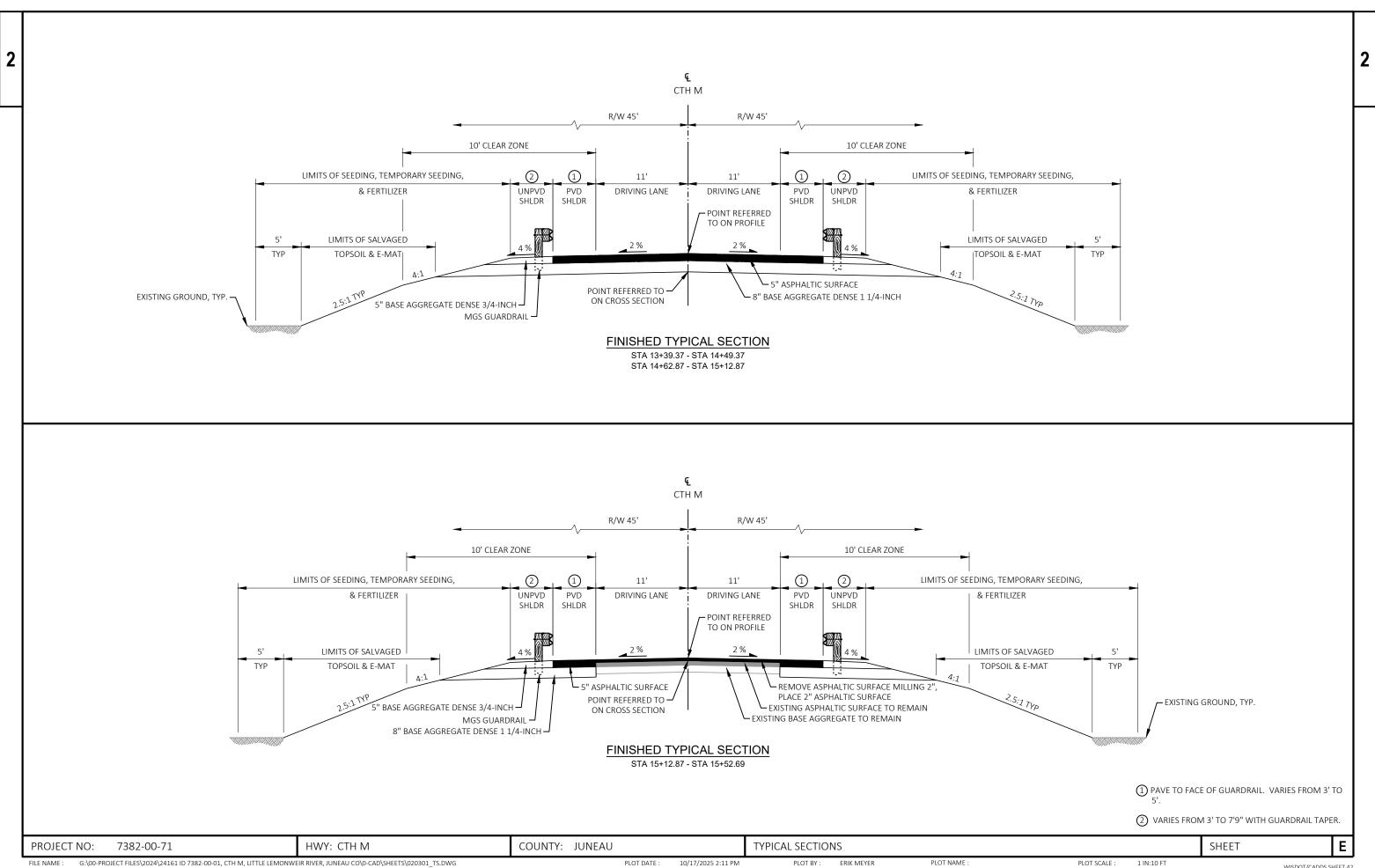
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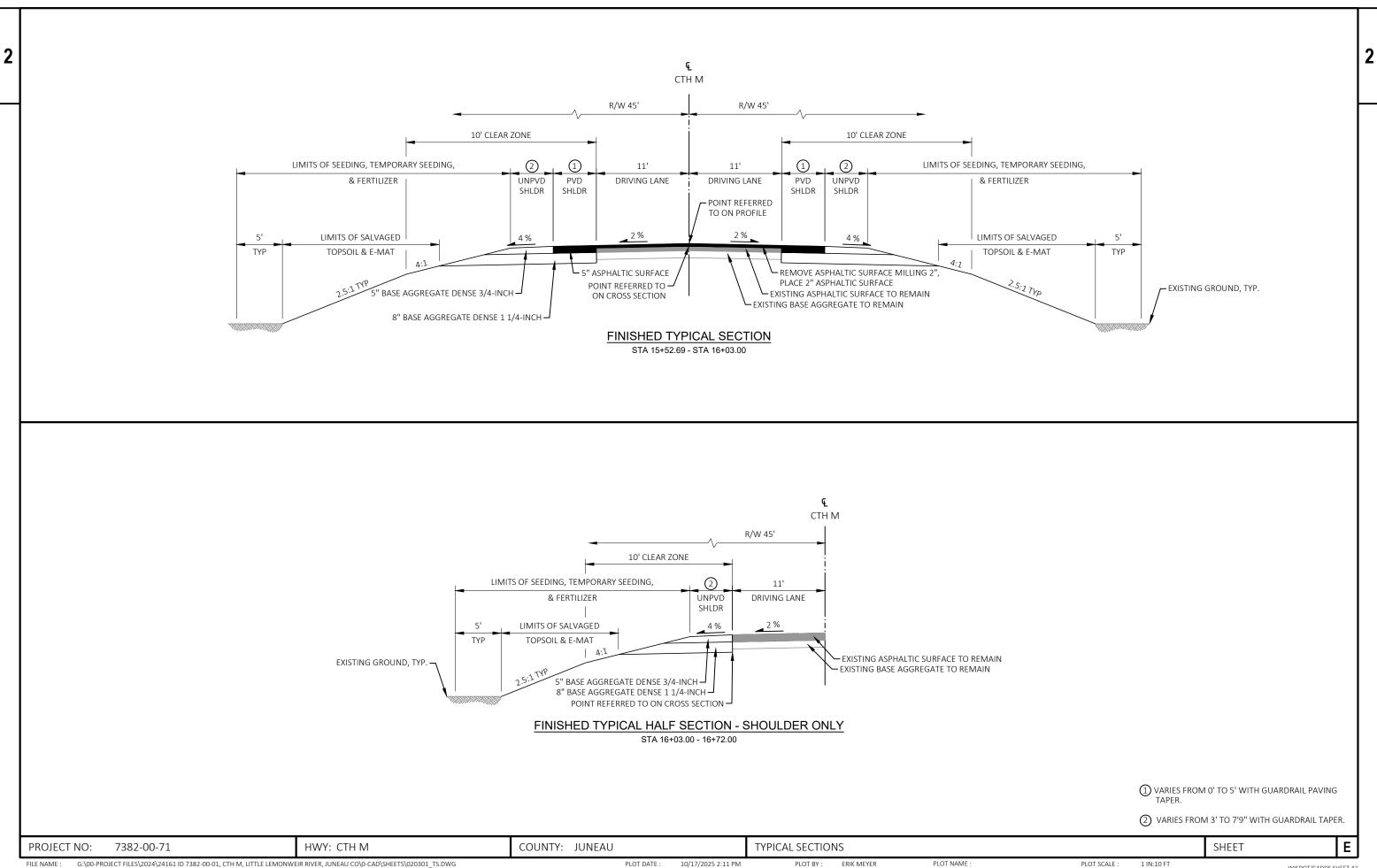
ERICA BAUER

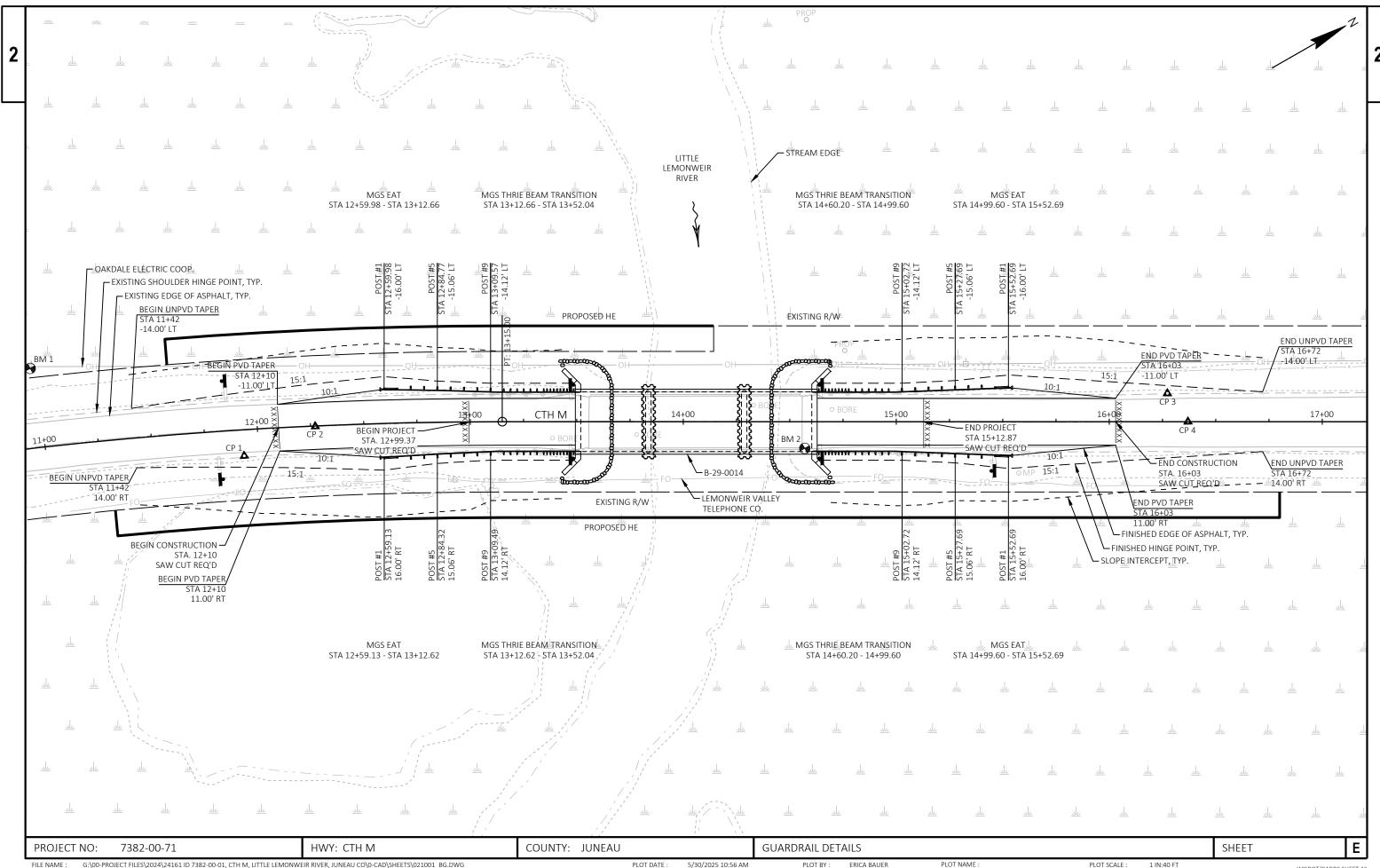






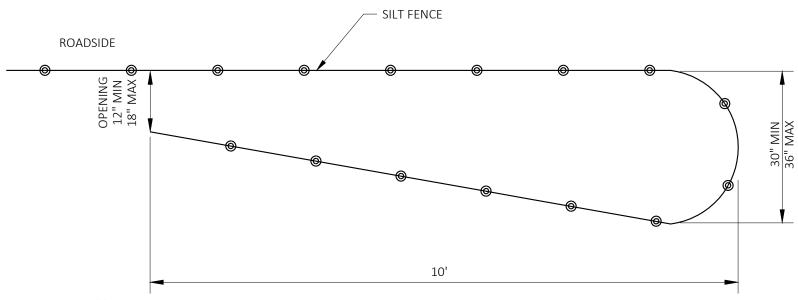






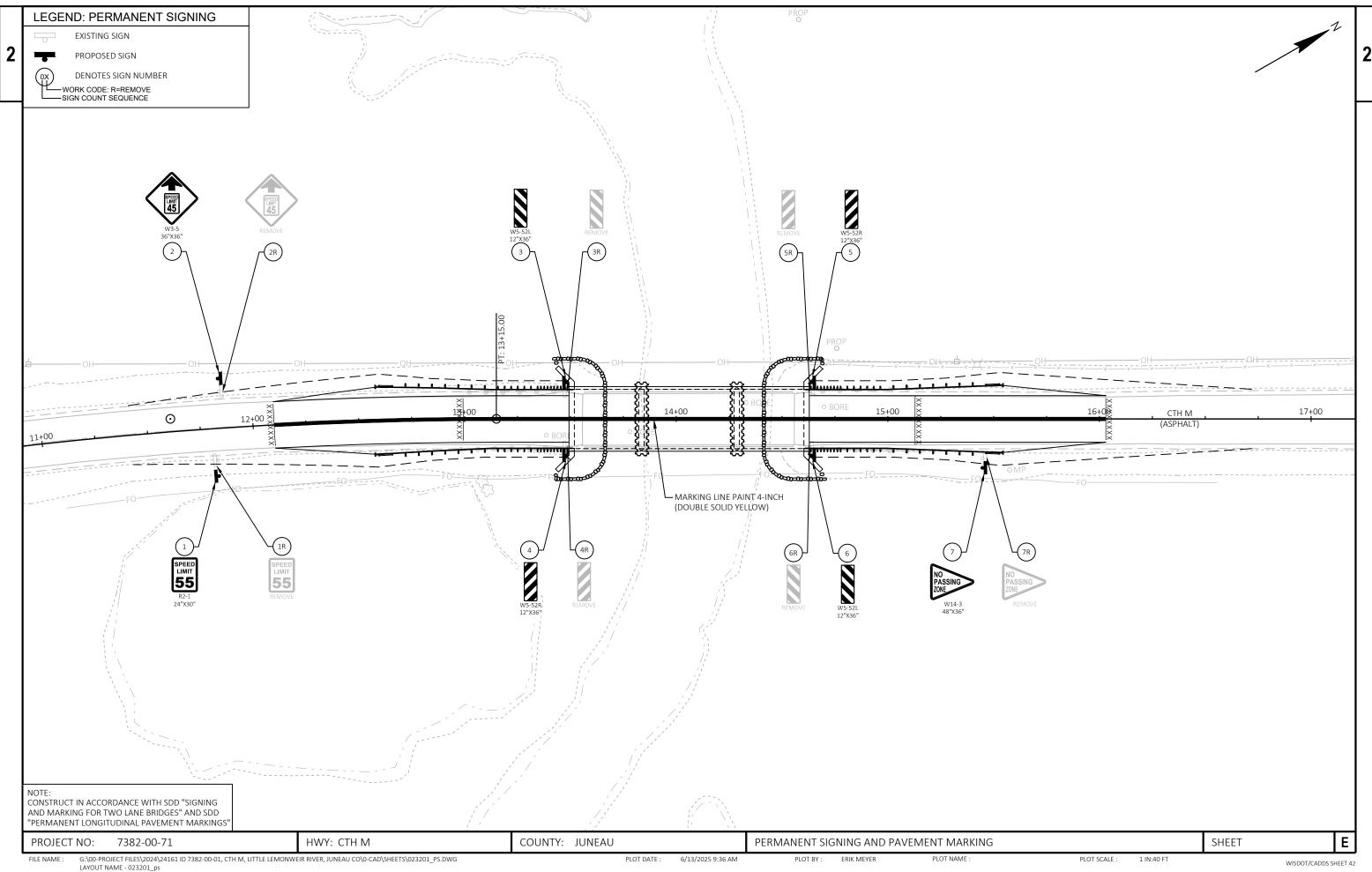


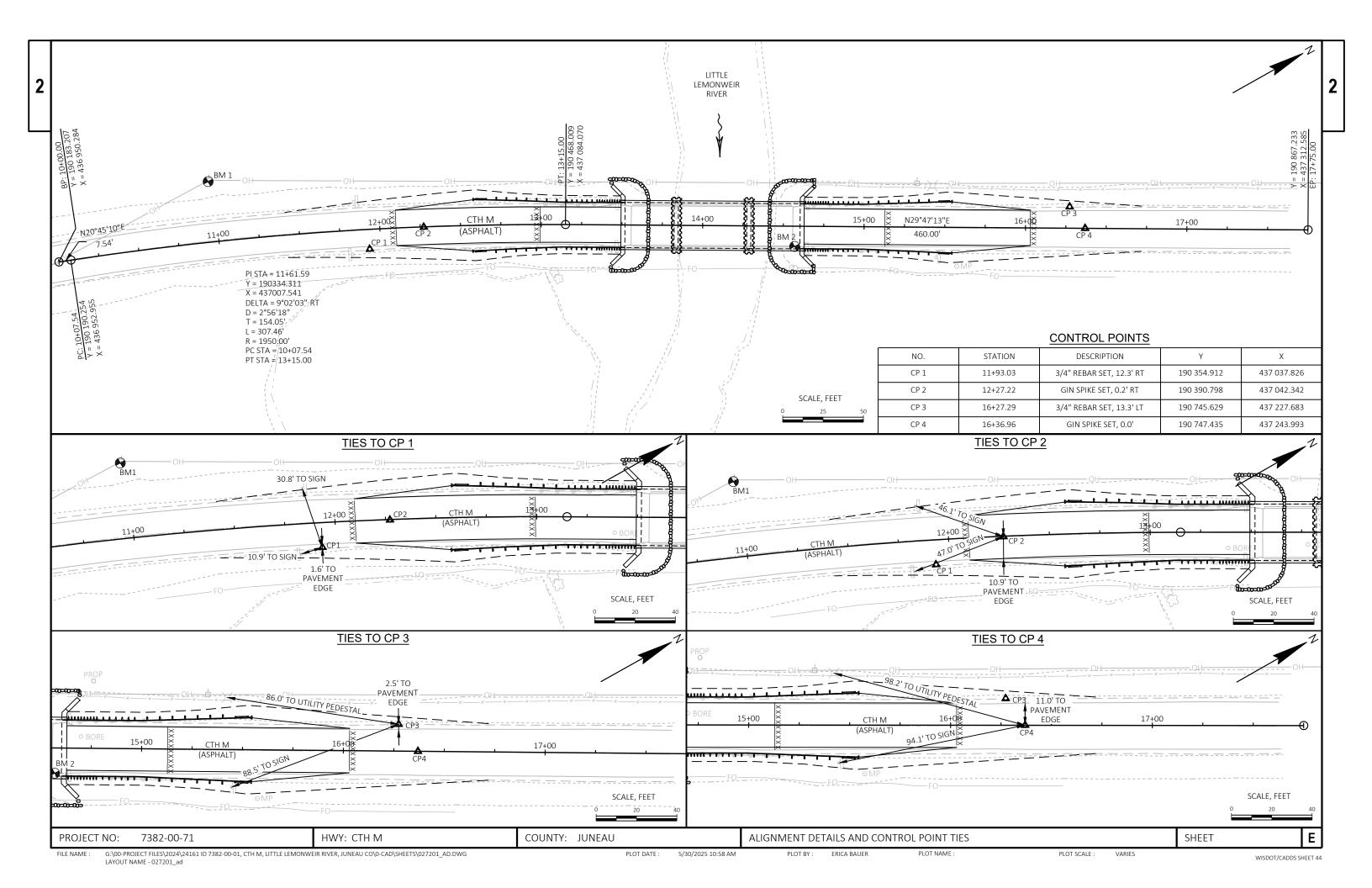
2 |



NOTES: SILT FENCE POSTS SHOULD BE ON THE OUTSIDE OF THE TURN-AROUND AND TRENCHED IN ACCORDING TO SILT FENCE REQUIREMENTS.

ANIMAL EXCLUSION FENCING TURN-AROUND





				7382-00-71
Item	Item Description	Unit	Total	Qty
203.0250	Removing Structure Over Waterway Remove Debris (structure) .01 B-29-14	EACH	1.000	1.000
204 0120	Removing Asphaltic Surface Milling	SY	460 000	460 000

					7002-00-71	
Line	Item	Item Description	Unit	Total	Qty	
0002	203.0250	Removing Structure Over Waterway Remove Debris (structure) .01 B-29-14	EACH	1.000	1.000	
0004	204.0120	Removing Asphaltic Surface Milling	SY	460.000	460.000	
0006	204.0165	Removing Guardrail	LF	210.000	210.000	
8000	205.0100	Excavation Common	CY	184.000	184.000	
0010	206.1001	Excavation for Structures Bridges (structure) .01 B-29-168	EACH	1.000	1.000	
0012	206.5001	Cofferdams (structure) .01 B-29-168	EACH	1.000	1.000	
0014	208.0100	Borrow	CY	1,436.000	1,436.000	
0016	210.1500	Backfill Structure Type A	TON	440.000	440.000	
0018	213.0100	Finishing Roadway (project) .01 7382-00-71	EACH	1.000	1.000	
0020	305.0110	Base Aggregate Dense 3/4-Inch	TON	163.000	163.000	
0022	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	580.000	580.000	
0024	455.0605	Tack Coat	GAL	46.000	46.000	
0026	465.0105	Asphaltic Surface	TON	176.000	176.000	
0028	502.0100	Concrete Masonry Bridges	CY	353.000	353.000	
0030	502.3200	Protective Surface Treatment	SY	483.000	483.000	
0032	502.9000.S	Underwater Substructure Inspection (structure) .01 B-29-168	EACH	1.000	1.000	
0034	505.0400	Bar Steel Reinforcement HS Structures	LB	8,690.000	8,690.000	
0036	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	49,570.000	49,570.000	
0038	513.4061	Railing Tubular Type M	LF	233.000	233.000	
0040	516.0500	Rubberized Membrane Waterproofing	SY	12.000	12.000	
0042	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	1,295.000	1,295.000	
0044	606.0300	Riprap Heavy	CY	160.000	160.000	
0046	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	160.000	160.000	
0048	614.2500	MGS Thrie Beam Transition	LF	157.600	157.600	
0050	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000	
0052	618.0100	Maintenance and Repair of Haul Roads (project) .01 7382-00-71	EACH	1.000	1.000	
0054	619.1000	Mobilization	EACH	1.000	1.000	
0056	624.0100	Water	MGAL	7.600	7.600	
0058	625.0500	Salvaged Topsoil	SY	1,550.000	1,550.000	
0060	628.1504	Silt Fence	LF	1,200.000	1,200.000	
0062	628.1520	Silt Fence Maintenance	LF	1,854.000	1,854.000	
0064	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000	
0066	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000	
0068	628.2008	Erosion Mat Urban Class I Type B	SY	1,550.000	1,550.000	
0070	628.6005	Turbidity Barriers	SY	325.000	325.000	
0072	629.0210	Fertilizer Type B	CWT	2.500	2.500	
0074	630.0130	Seeding Mixture No. 30	LB	125.000	125.000	
0076	630.0200	Seeding Temporary	LB	75.000	75.000	
0078	630.0500	Seed Water	MGAL	60.000	60.000	
0800	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0082	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	3.000	3.000	
0084	637.2230	Signs Type II Reflective F	SF	31.560	31.560	
0086	638.2602	Removing Signs Type II	EACH	7.000	7.000	
8800	638.3000	Removing Small Sign Supports	EACH	7.000	7.000	
0090	642.5001	Field Office Type B	EACH	1.000	1.000	
0092	643.0420	Traffic Control Barricades Type III	DAY	2,599.000	2,599.000	
0094	643.0705	Traffic Control Warning Lights Type A	DAY	5,198.000	5,198.000	
0096	643.0900	Traffic Control Signs	DAY	2,260.000	2,260.000	
0098	643.5000	Traffic Control	EACH	1.000	1.000	

Estimate Of Quantities

7382-00-71

Page	2
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Line	Item	Item Description	Unit	Total	Qty
0100	645.0111	Geotextile Type DF Schedule A	SY	68.000	68.000
0102	645.0120	Geotextile Type HR	SY	302.000	302.000
0104	646.1005	Marking Line Paint 4-Inch	LF	786.000	786.000
0106	650.4500	Construction Staking Subgrade	LF	280.000	280.000
0108	650.5000	Construction Staking Base	LF	280.000	280.000
0110	650.6501	Construction Staking Structure Layout (structure) .01 B-29-0168	EACH	1.000	1.000
0112	650.9911	Construction Staking Supplemental Control (project) .01 7382-00-71	EACH	1.000	1.000
0114	650.9920	Construction Staking Slope Stakes	LF	280.000	280.000
0116	690.0150	Sawing Asphalt	LF	90.000	90.000
0118	715.0502	Incentive Strength Concrete Structures	DOL	2,118.000	2,118.000
0120	999.2000.S	Installing and Maintaining Bird Deterrent System (station) .01 14+00	EACH	1.000	1.000
0122	SPV.0090	Special .01 Flashing Stainless Steel	LF	217.000	217.000

E: MS CATEGORY 0010 UNLESS NOTED OTHERWISE		205.0100 EXCAVATION COMMON (CY)				EXPANDED FILL (CY)			
		(1)		A\/AII A D.I.E		(5)			
	FROM/TO	CUT (CY)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (CY)	AVAILABLE MATERIAL (CY)	UNEXPANDED	FACTOR	MASS ORDINATE +/- (CY)	WASTE (CY)	208.0100
'REMOVING ASPHALTIC SURFACE MILLING	DIVISION STATION	(2)	(3)	(4)	FILL (CY)	1.25	(6)	(7)	BORROW (CY)
204.0120	DIVISION 1 SOUTH APPROACH 11+42.00/13+49	96	33	63	649	811	-748	0	748
STATION TO STATION LOCATION SY	DIVISION 1 SUBTOTAL	96	33	63	649	811	-748	0	748
	DIVISION 3								
12+10 - 13+00 SOUTH APPROACH 230 15+13 - 16+03 NORTH APPROACH 230	DIVISION 2 NORTH APPROACH 14+62.87/16+72	2.00 88	37	51	591	739	-688	0	688
TOTAL 460	DIVISION 2 SUBTOTAL	88	37	51	591	739	-688	0	688
	CRAND TOTAL	404	70	12.4	1,240	1,550	-1,436		1,436
	GRAND TOTAL	184	70	114	1,240	1,550	-1,430	0	1,430
204.0165 204.0165 STATION TO STATION LOCATION LF	(2) SALVAGED/UNS (3) SALVAGED/UNI (4) AVAILABLE MA' (5) EXPANDED FILL (6) THE MASS ORD WITHIN THE DIVISI	INATE + OR - QTY CALCULATED FO	ICLUDED IN CUT. ABLE PAVEMENT MATERIAL R THE DIVISION. PLUS QUANT	ITY INDICATES AN	I EXCESS OF MATE			A SHORTAGE OF I	MATERIAL
14+65 - 15+17 NORTH APPROACH, LT <u>52</u> TOTAL 210	AS	SPHALTIC PAVEMENT							
		455.0605 465.0105	5						
	CT.T.O.	TACK COAT ASPHALTIC SU	RFACE						
	STATION TO STATION LOCATION	GAL TON	REMARKS	-					
	12+10 - 13+00 SOUTH APPROA		MILLING				MGS GUARDRAIL		
DASE ACCRECATE DENSE	13+00 - 13+48 SOUTH APPRO 14+63 - 15+13 NORTH APPRO		RECONSTRUCT RECONSTRUCT						614.2610
BASE AGGREGATE DENSE	15+13 - 16+03 NORTH APPRO		MILLING				ті	MGS HRIE BEAM	MGS GUARDRAIL
305.0110 305.0120 624.0100	TOTAL	46 176					TI		ERMINAL EAT
BASE BASE AGGREGATE AGGREGATE					STATION TO	O STATION	LOCATION	LF	EACH
DENSE DENSE	MORII I	ZATION EROSION CONTROL			12+60 -		JTH APPROACH, RT	39.4	1
3/4-INCH 1 1/4-INCH WATER TATION TO STATION LOCATION TON TON MGAL	Nobles				12+60 - 14+60 -		UTH APPROACH, LT RTH APPROACH, RT	39.4 39.4	1
		628.1905 628.19 MOBILIZA					RTH APPROACH, LT	39.4 39.4	1
11+42 - 13+00 SOUTH APPROACH 66 180 2.5 13+00 - 13+48 SOUTH APPROACH 16 110 1.3		MOBILIZATIONS EMERGE	NCY				TOTAL	157.6	4
14+63 - 15+13 NORTH APPROACH 16 110 1.3	EF LOCATION	ROSION CONTROL EROSION CO EACH EACH							
14+64 - 16+72 NORTH APPROACH 65 180 2.5		EACT EACT	<u>. </u>						
TOTAL 163 580 7.6	PROJECT	5 4							
	TOTAL	5 4							
<u>FINISHING ITEMS</u> 625.0500 628.2008 629.02	10 630.0130 630.0200 6	330.0500					SILT FENCE		
EROSION MAT	SEEDING	,30,0300	TURBIDITY BARRIER					C20 1504	C20 1520
SALVAGED URBAN FERTILI: TOPSOIL CLASS I TYPE B TYPE		ED WATER	(28.6005				628.1504	628.1520 SILT FENCE
STATION TO STATION LOCATION SY SY CWT			LOCATION	SY	CT.	ATION TO CTATION	AL LOCATION	SILT FENCE I	MAINTENANCE
11+42 - 13+49 SOUTH APPROACH, RT 360 360 0.5	27 16	14 SOL	JTH ABUTMENT	120	512	ATION TO STATION	N LOCATION	LF	LF
11+42 - 13+49 SOUTH APPROACH, LT 265 265 0.5		11 NOF	RTH ABUTMENT	140		11+59		52	104
14+63 - 16+72 NORTH APPROACH, RT 285 285 0.5			NDISTRIBUTED TOTAL	65 325		3+08 - 13+87 L+24 - 13+84		82 259	164 518
14+63 - 16+72 NORTH APPROACH, LT 330 330 0.5 UNDISTRIBUTED 310 310 0.5		13 10	TOTAL	323		1+37 - 16+90	NORTH APPROACH, RT	271	542
TOTAL 1,550 1,550 2.5		60			14	1+44 - 16+89		263	526
							UNDISTRIBUTED _ TOTAL	273 1,200	1,854
							101/12	,=	, :
ECT NO: 7382-00-71 HWY: CTH M	COUNTY: JUNEAU		ELLANEOUS QUANTITIE					SHEET	

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PERMANENT SIGNING

				634.0612	634.0614	637.2230	638.2602	638.3000	
				POSTS WOOD 4X6-INCH X 12-FT	POSTS WOOD 4X6-INCH X 14-FT	SIGNS TYPE II REFLECTIVE F	REMOVING SIGNS TYPE II	REMOVING SMALL SIGN SUPPORTS	
STATION	LOCATION	SIGN NUMBER	SIGN CODE	EACH	EACH	SF	EACH	EACH	REMARKS
317(1101)	EGG/MIGH	NOWIBER	31011 0002	Ericii	Erteri	31	Ericii	Ericii	NEWW WING
11+81	SOUTH APPROACH, RT	1	R2-1		1	5.00			SPEED LIMIT 55 MPH
11+81	SOUTH APPROACH, RT	1R	R2-1				1	1	SPEED LIMIT 55 MPH
11+86	SOUTH APPROACH, LT	2	W3-5		1	9.00			SPEED LIMIT AHEAD 45 MPH
11+86	SOUTH APPROACH, LT	2R	W3-5				1	1	SPEED LIMIT AHEAD 45 MPH
13+49	SOUTH APPROACH, RT	4	W5-52R	1		3.00			BRIDGE HASH MARKS
13+49	SOUTH APPROACH, RT	4R	W5-52R				1	1	BRIDGE HASH MARKS
13+49	SOUTH APPROACH, LT	3	W5-52L	1		3.00			BRIDGE HASH MARKS
13+49	SOUTH APPROACH, LT	3R	W5-52L				1	1	BRIDGE HASH MARKS
14+64	NORTH APPROACH, RT	6	W5-52L	1		3.00			BRIDGE HASH MARKS
14+64	NORTH APPROACH, RT	6R	W5-52L				1	1	BRIDGE HASH MARKS
14+65	NORTH APPROACH, LT	5	W5-52R	1		3.00			BRIDGE HASH MARKS
14+65	NORTH APPROACH, LT	5R	W5-52R				1	1	BRIDGE HASH MARKS
15+46	NORTH APPROACH, RT	7	W14-3		1	5.56			NO PASSING ZONE
15+46	NORTH APPROACH, RT	7R	W14-3				1	1	NO PASSING ZONE
			TOTAL	4	3	31.56	7	7	

TRAFFIC CONTROL

		643	.0420		.0705 AFFIC	643	.0900	643.5000
		TRA	AFFIC		ITROI			
		CON	ITROL	WAF	RNING	TRA	AFFIC	
		BARR	BARRICADES		LIGHTS		ITROL	TRAFFIC
	DURATION	TY	PE III	TY	PE A	SI	GNS	CONTROL
LOCATION	DAY	NO	DAY	NO	DAY	NO	DAY	EACH
SOUTH APPROACH	113	9	1017	18	2034	8	904	
NORTH APPROACH	113	9	1017	18	2034	8	904	
UNDISTRIBUTED	113	5	565	10	1130	4	452	
PROJECT								1
TOTAL		23	2,599	46	5,198	20	2,260	1

PLACE TRAFFIC CONTROL IN ACCORDANCE WITH SDD 12C2 "BARRICADES AND SIGNS FOR MAINLINE, DETOUR, ON RAMP CLOSURES AND ADVANCED WIDTH RESTRICTIONS." PLACEMENT SUBJECT TO ENGINEER APPROVAL.

MARKING LINE PAINT 4-INCH

			646.1005	
STATION	TO	STATION	LF	REMARKS
12+10	-	16+03 TOTAL	786 786	DOUBLE YELLOW, CENTERLINE

CONSTRUCTION STAKING

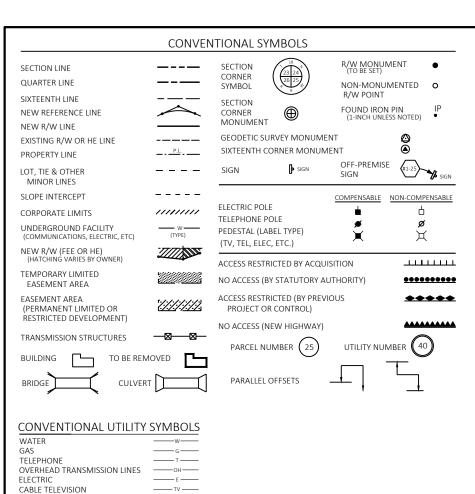
						*		
				650.4500	650.5000	650.6501.01 CONSTRUCTION STAKING	650.9911.01 CONSTRUCTION STAKING	650.9920
				CONSTRUCTION	CONSTRUCTION	STRUCTURE	SUPPLEMENTAL	CONSTRUCTION
				STAKING	STAKING	LAYOUT	CONTROL	STAKING
				SUBGRADE	BASE	01. B-29-0168	01. 7382-00-71	SLOPE STAKES
STATION	TO	STATION	LOCATION	LF	LF	EACH	EACH	LF
12+10	-	13+50	SOUTH APPROACH	140	140			140
14+63	-	16+03	NORTH APPROACH	140	140			140
	-		PROJECT			1	1	
			TOTAL	280	280	1	1	280

* CATEGORY 0020

SAWING ASPHALT

		690.0150
STATION	LOCATION	LF
12+10	SOUTH APPROACH	22
12+99	SOUTH APPROACH	23
15+13	NORTH APPROACH	23
16+03	NORTH APPROACH	22
	TOTAL	90

Ε PROJECT NO: 7382-00-71 HWY: CTH M COUNTY: JUNEAU MISCELLANEOUS QUANTITIES SHEET



CONVENTIONAL ABBREVIATIONS

FIRER OPTIC SANITARY SEWER STORM SEWER

ELECTRIC TOWER

ACCESS RIGHTS	AR	POINT OF COMPOUND CURVE	PCC
ACRES	AC	POINT OF INTERSECTION	PI
AHEAD	AH	PROPERTY LINE	PL
ALUMINUM	ALUM	RECORDED AS	(100')
AND OTHERS	ET AL	REEL / IMAGE	R/I
BACK	BK	REFERENCE LINE	R/L
BLOCK	BLK	REMAINING	REM
CENTERLINE	C/L	RESTRICTIVE DEVELOPMENT	RDE
CERTIFIED SURVEY MAP	CSM	EASEMENT	
CONCRETE	CONC	RIGHT	RT
COUNTY	CO	RIGHT OF WAY	R/W
COUNTY TRUNK HIGHWAY	CTH	SECTION	SEC
DISTANCE	DIST	SEPTIC VENT	SEPV
CORNER	COR	SQUARE FEET	SF
DOCUMENT NUMBER	DOC	STATE TRUNK HIGHWAY	STH
EASEMENT	EASE	STATION	STA
EXISTING	EX	TELEPHONE PEDESTAL	TP
GAS VALVE	GV	TEMPORARY LIMITED	TLE
GRID NORTH	GN	EASEMENT	
HIGHWAY EASEMENT	HE	TRANSPORTATION PROJECT PLAT	TPP
IDENTIFICATION	ID	UNITED STATES HIGHWAY	USH
LAND CONTRACT	LC	VOLUME	V
LEFT	LT		
MONUMENT	MON	CURVE DATA ABBREVIA	TIONS
NATIONAL GEODETIC SURVEY	NGS	LONG CHORD	LCH
NUMBER	NO	LONG CHORD BEARING	LCB
OUTLOT	OL	RADIUS	R
PAGE	Р	DEGREE OF CURVE	D • (DELTA
POINT OF TANGENCY	PT	CENTRAL ANGLE LENGTH OF CURVE	∆ /DELTA I
PERMANENT LIMITED	PLE	TANGENT	T
EASEMENT		DIRECTION AHEAD	DA
POINT OF BEGINNING	POB	DIRECTION BACK	DB
POINT OF CURVATURE	PC		

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), JUNEAU COUNTY, NAD83 (2011)IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY $\frac{3}{4}$ " X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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 THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF JUNEAU COUNTY.

PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON

INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE AND ACCESS CONTROL

AN EASEMENT FOR HIGHWAY PURPOSES (HE), AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT. REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE.

Y = 190 784.784 X = 437 265.392 LARSON LN 3 W 39TH ST GERMANT

SCHROEDER 16 RD TAYLOR RD B

> STA 11+30.00 Y = 190 303.335 X = 436 999.914

BEGIN RELOCATION ORDER

SCALE

TOTAL NET LENGTH OF CENTERLINE = 0.104 MI

R/W PROJECT NUMBER 7382-00-01 NUMBER SHEETS FEDERAL PROJECT NUMBER

PLAT OF RIGHT OF WAY REQUIRED FOR

C NEW LISBON - IH 90 LTL LEMONWEIR RVR BRIDGE B-29-0168

CTH M JUNEAU COUNTY

CONSTRUCTION PROJECT NUMBER 7382-00-71

END RELOCATION ORDER STA 16+80.00

CAUTION:

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

ACCEPTED FOR JUNEAU COUNTY

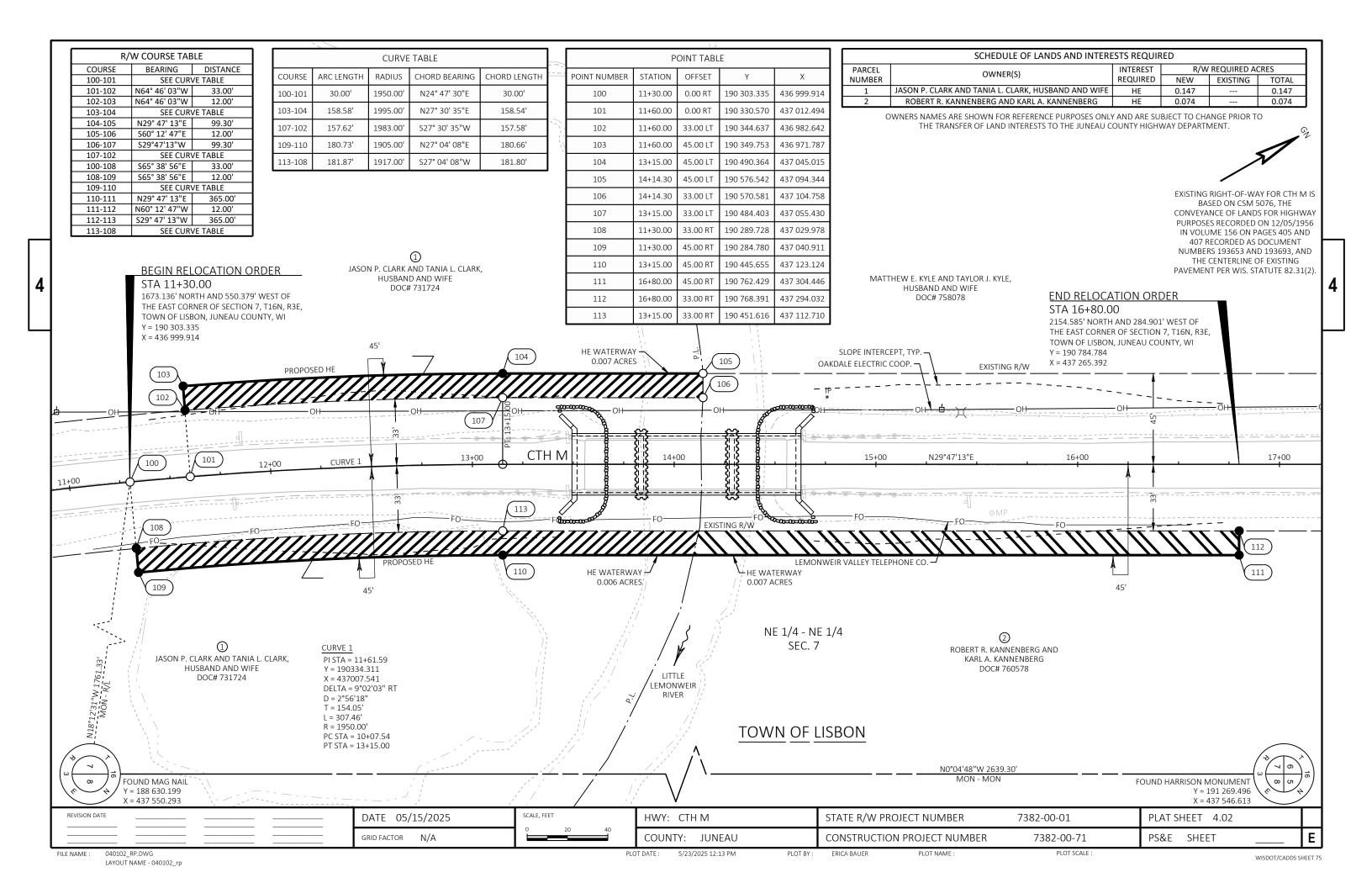
ORIGINAL PLANS PREPARED BY

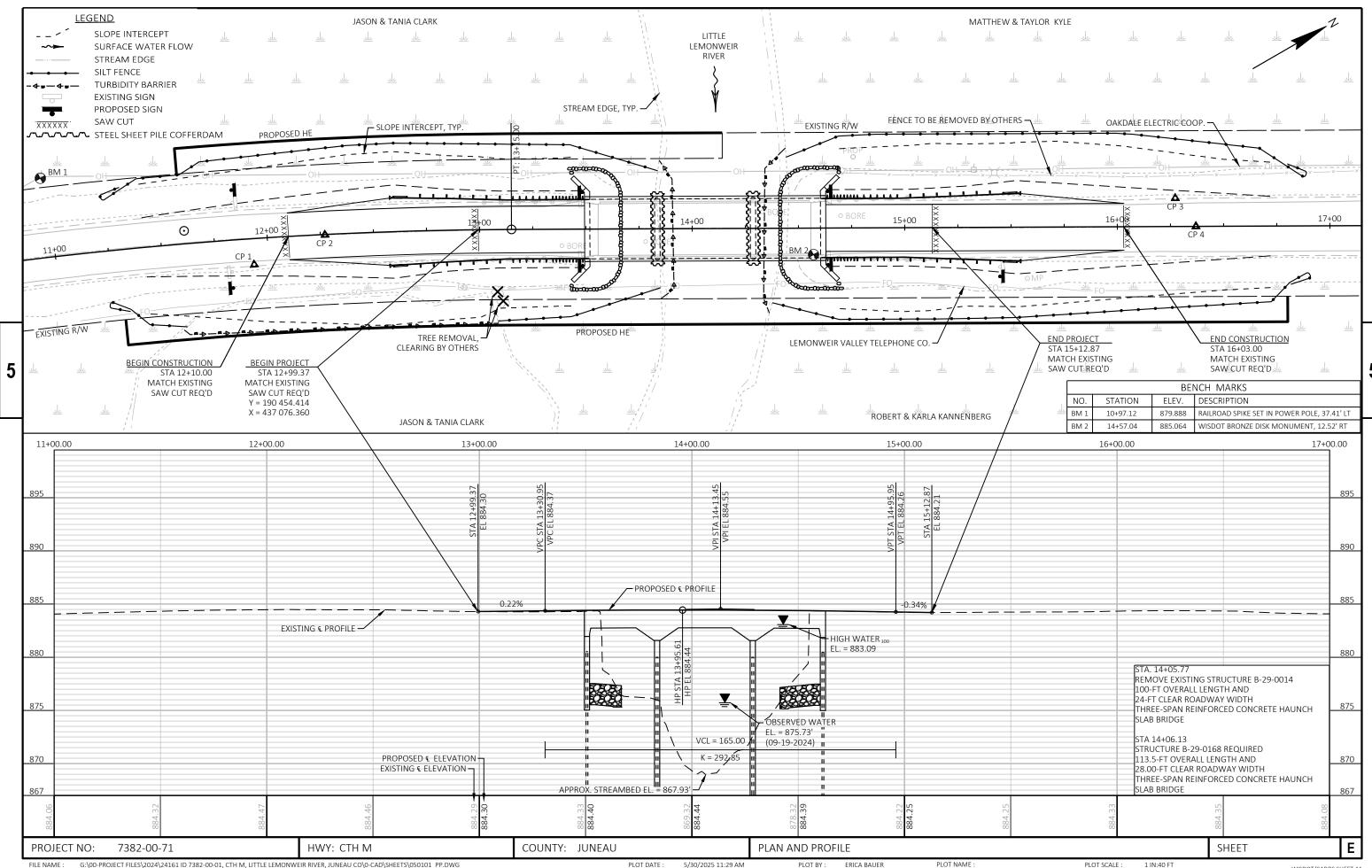


619 East Hoxie St. | P.O. Box 429 | Spring Green, WI 53588 (608) 588-7866 | F: (608) 588-7954 | www.westbrookeng.com



REVISION DATE





Standard Detail Drawing List

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
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14в45-05н	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15С02-09в	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

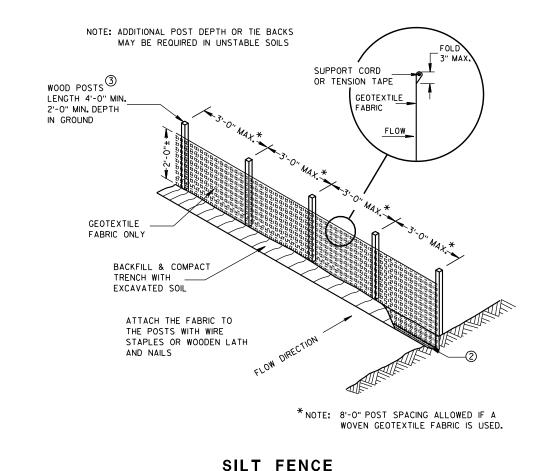
TYPICAL APPLICATION OF SILT FENCE

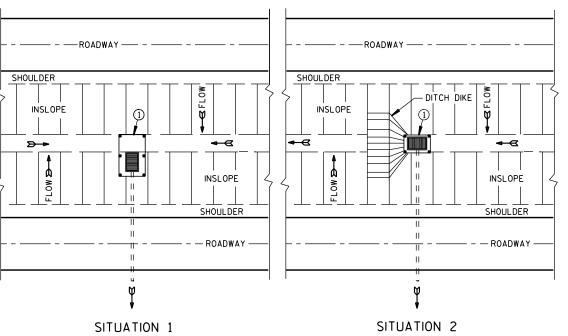
6

b

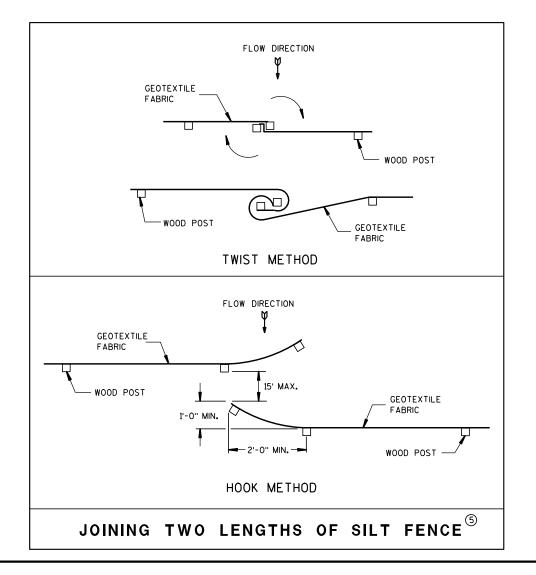
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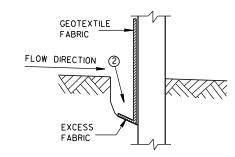
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



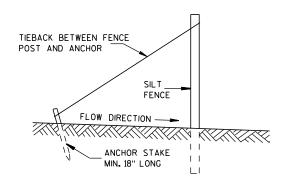
GENERAL NOTES

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

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

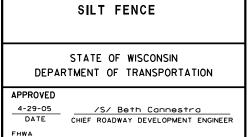


TRENCH DETAIL



SILT FENCE TIE BACK

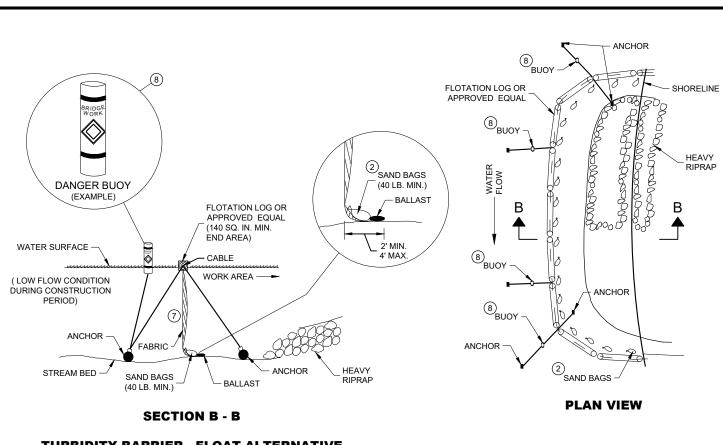
(WHEN REQUIRED BY THE ENGINEER)



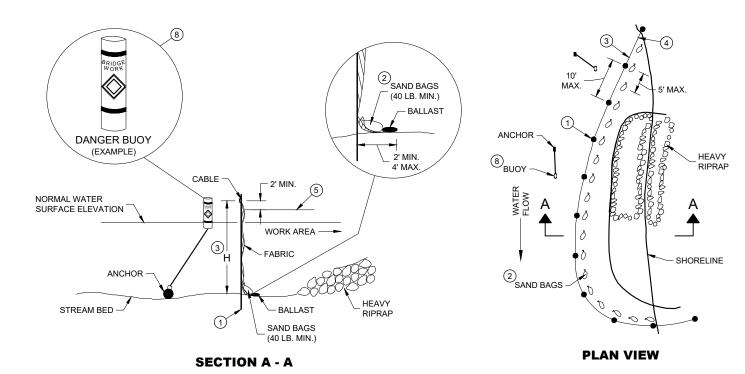
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D.D. 8 E 9-6



TURBIDITY BARRIER - FLOAT ALTERNATIVE CAUTION - SEE NOTE 6



TURBIDITY BARRIER - STANDARD POST INSTALLATION

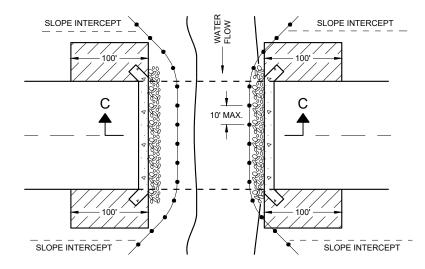
TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

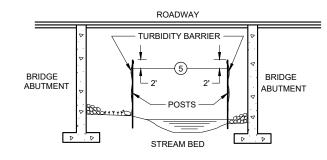
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

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



PLAN VIEW



SECTION C - C

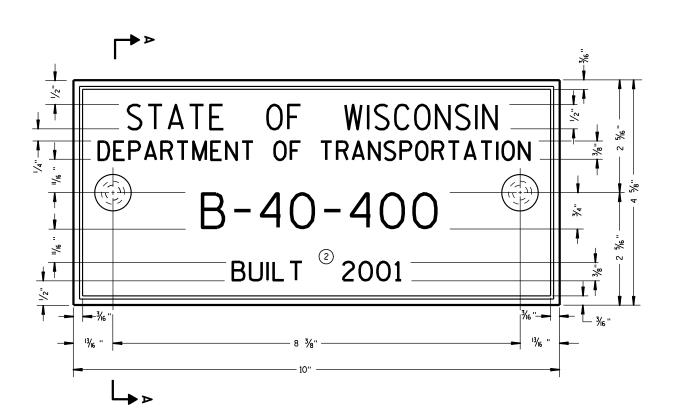
TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ∞

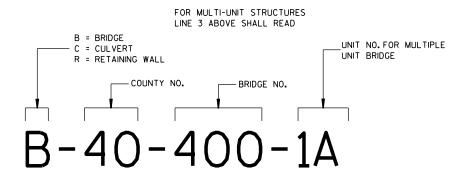
APPROVED /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT
ENGINEER 6/4/02 DATE





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



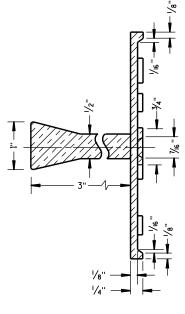
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

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

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

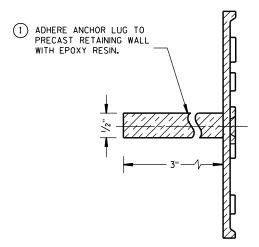
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

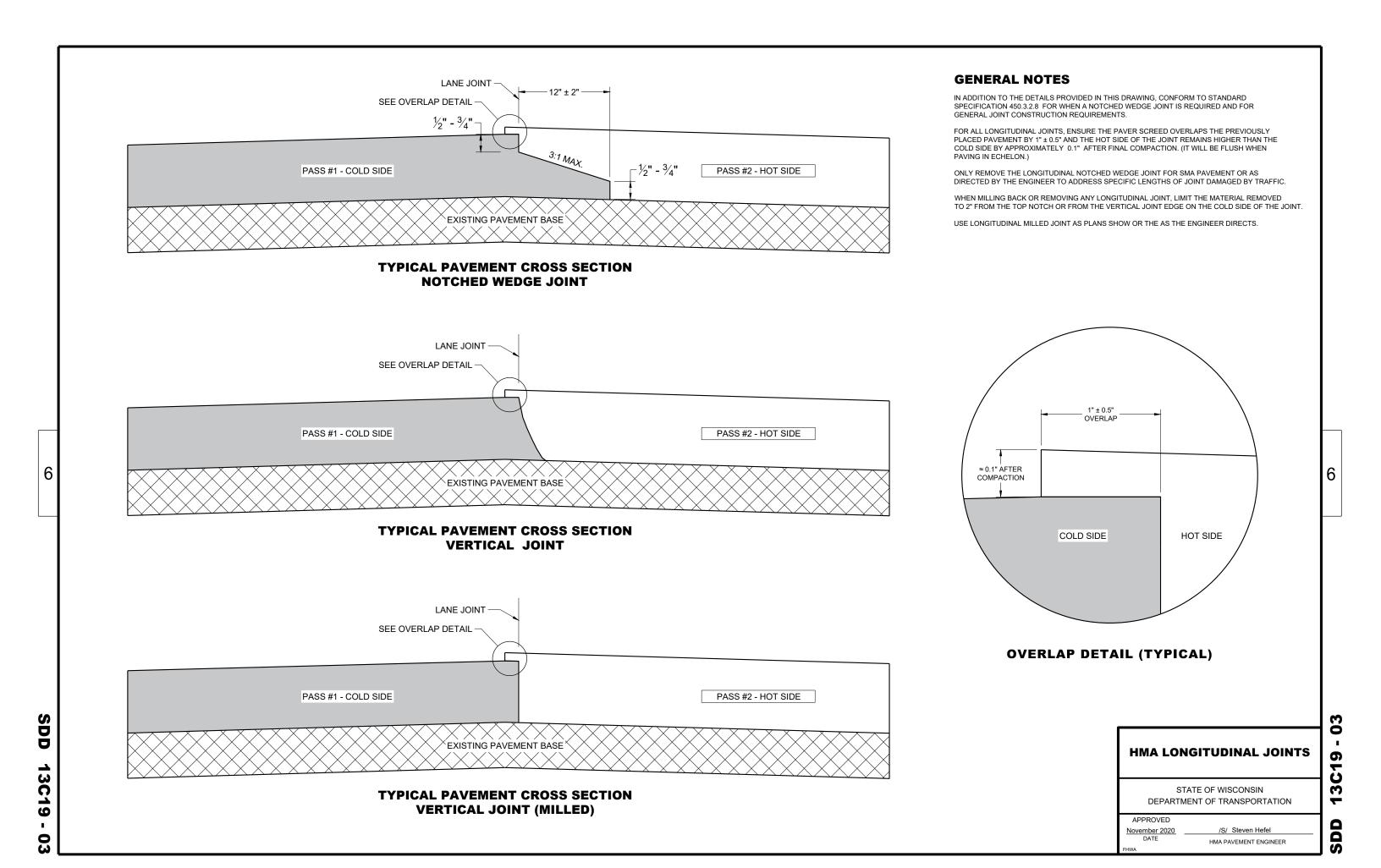
APPROVED

3/26/IO /S/ Scot Becker

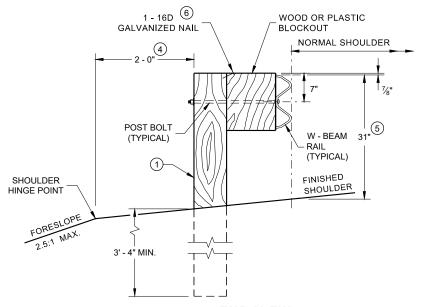
DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

.D.D. 12 A

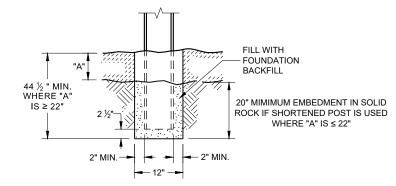
3-10



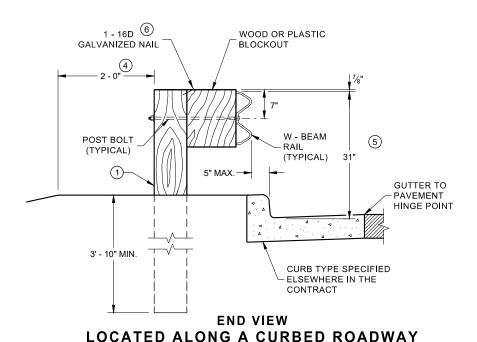
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES 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 \$\pm 1"\$. 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".

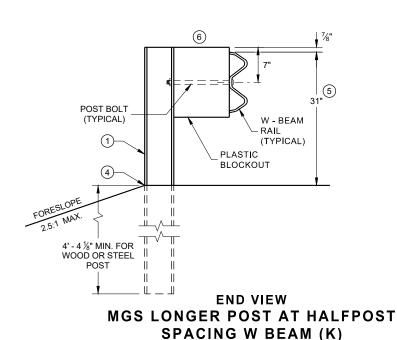


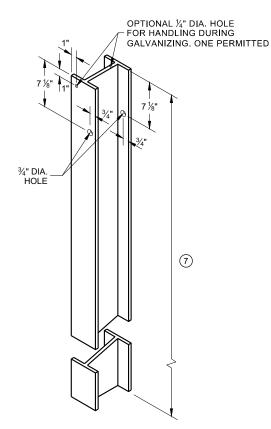
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



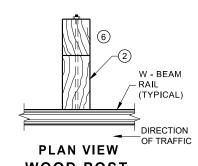
SETTING STEEL OR WOOD POST IN ROCK



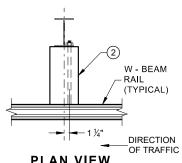




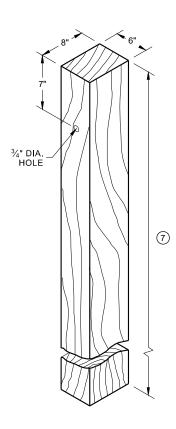
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



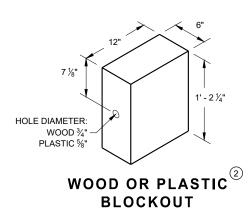
PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



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

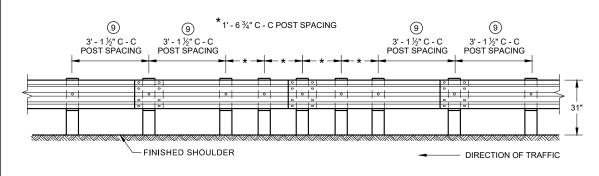
POST SPACING

DIRECTION OF TRAFFIC

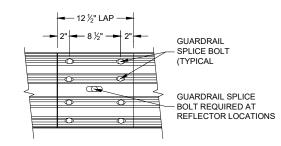
6' - 3" C -C

POST SPACING

FINISHED SHOULDER



FRONT VIEW
QUARTER POST SPACING (QS)



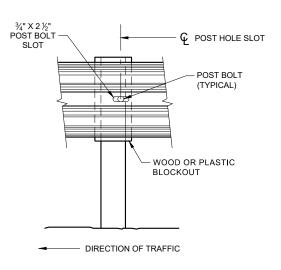
FRONT VIEW
MID-SPAN BEAM SPLICE

GENERAL NOTES

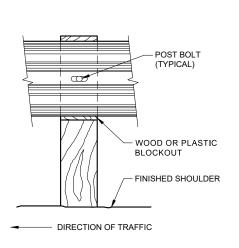
- 8 DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- (9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

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.

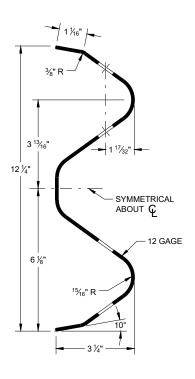
GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



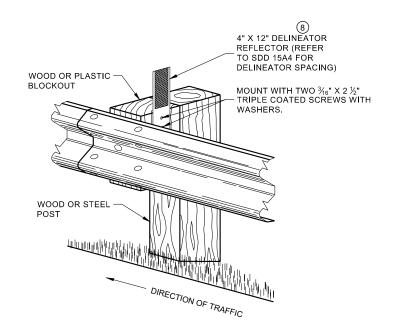
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

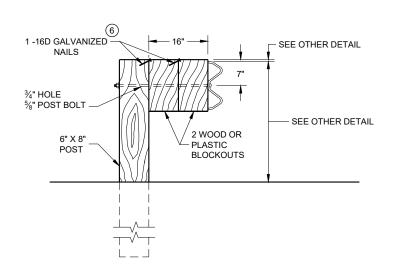
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

07b

SDD

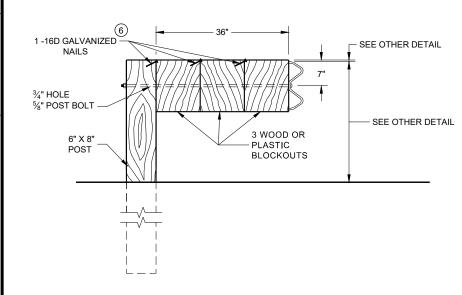
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6



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.



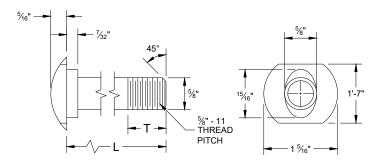
DETAIL FOR 36" BLOCKOUT DEPTH

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.

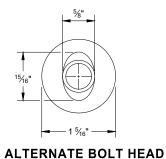
NOTE:

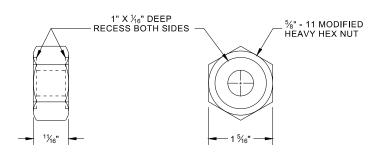
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



POST BOLT TABLE

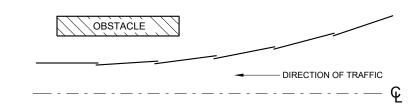
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



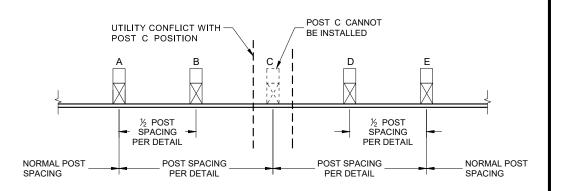


POST BOLT, SPLICE BOLT **AND RECESS NUT**

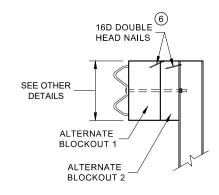
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D (6) GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

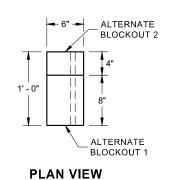


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

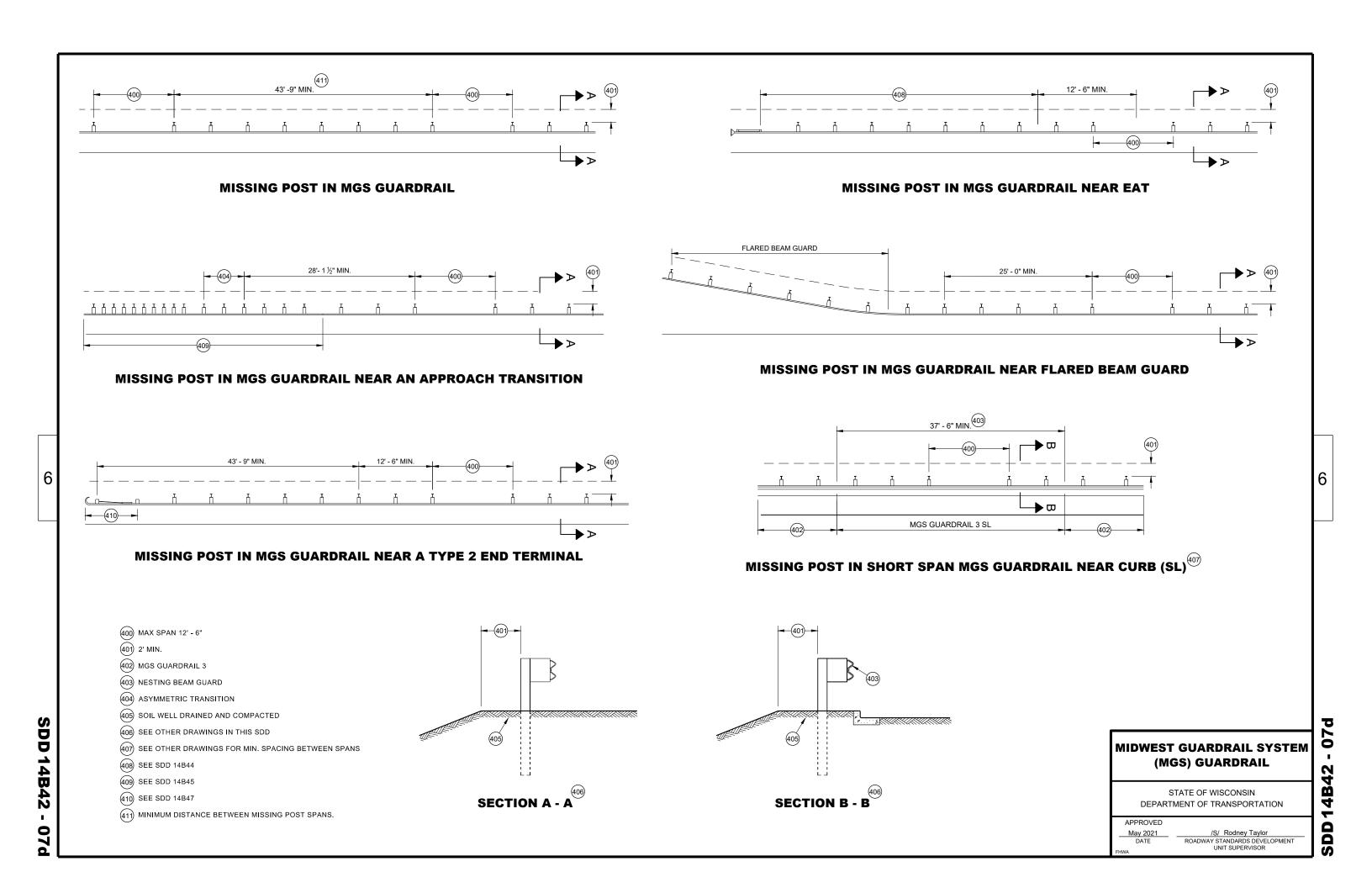
ALTERNATE WOOD BLOCKOUT DETAIL

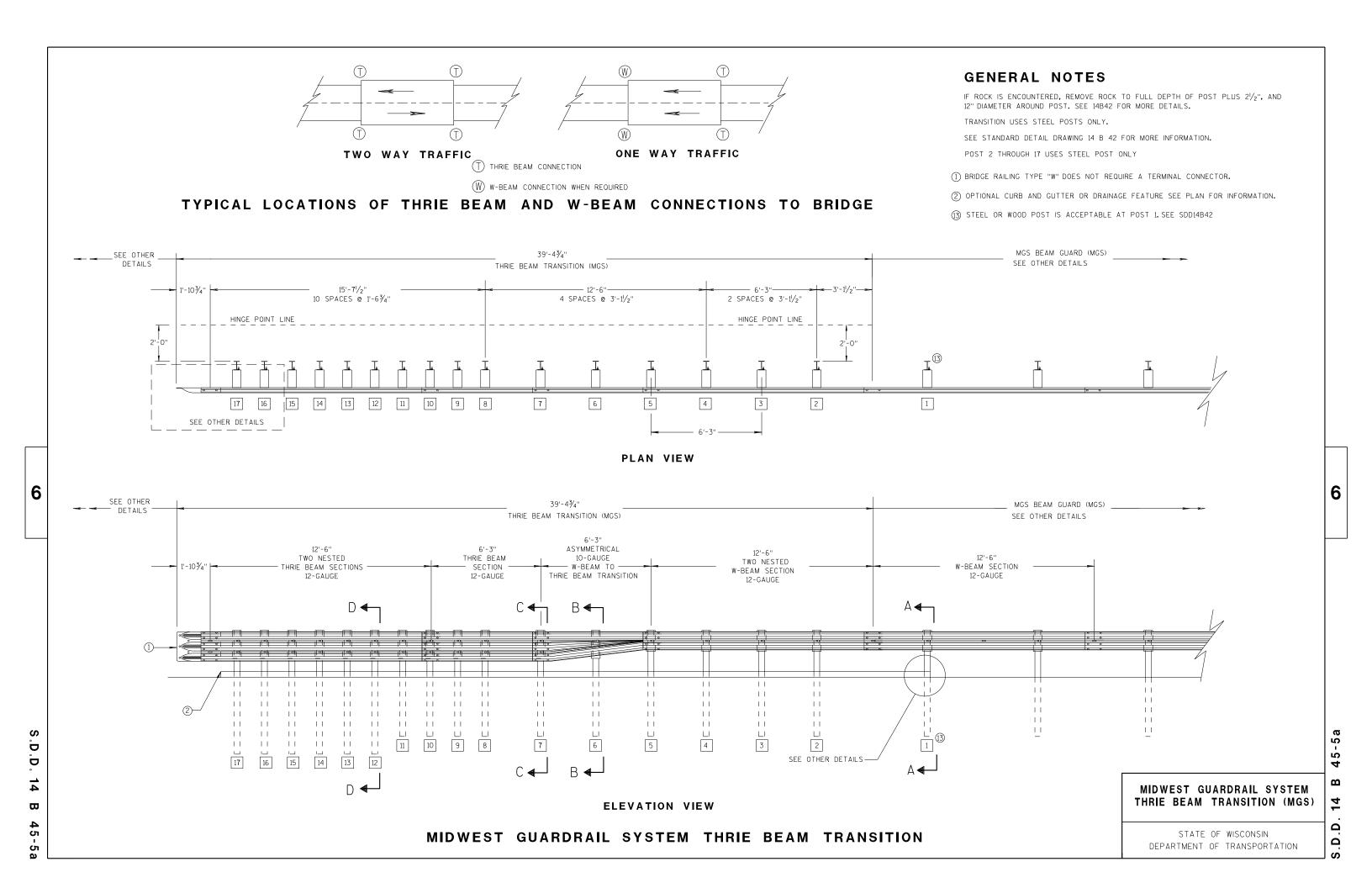
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

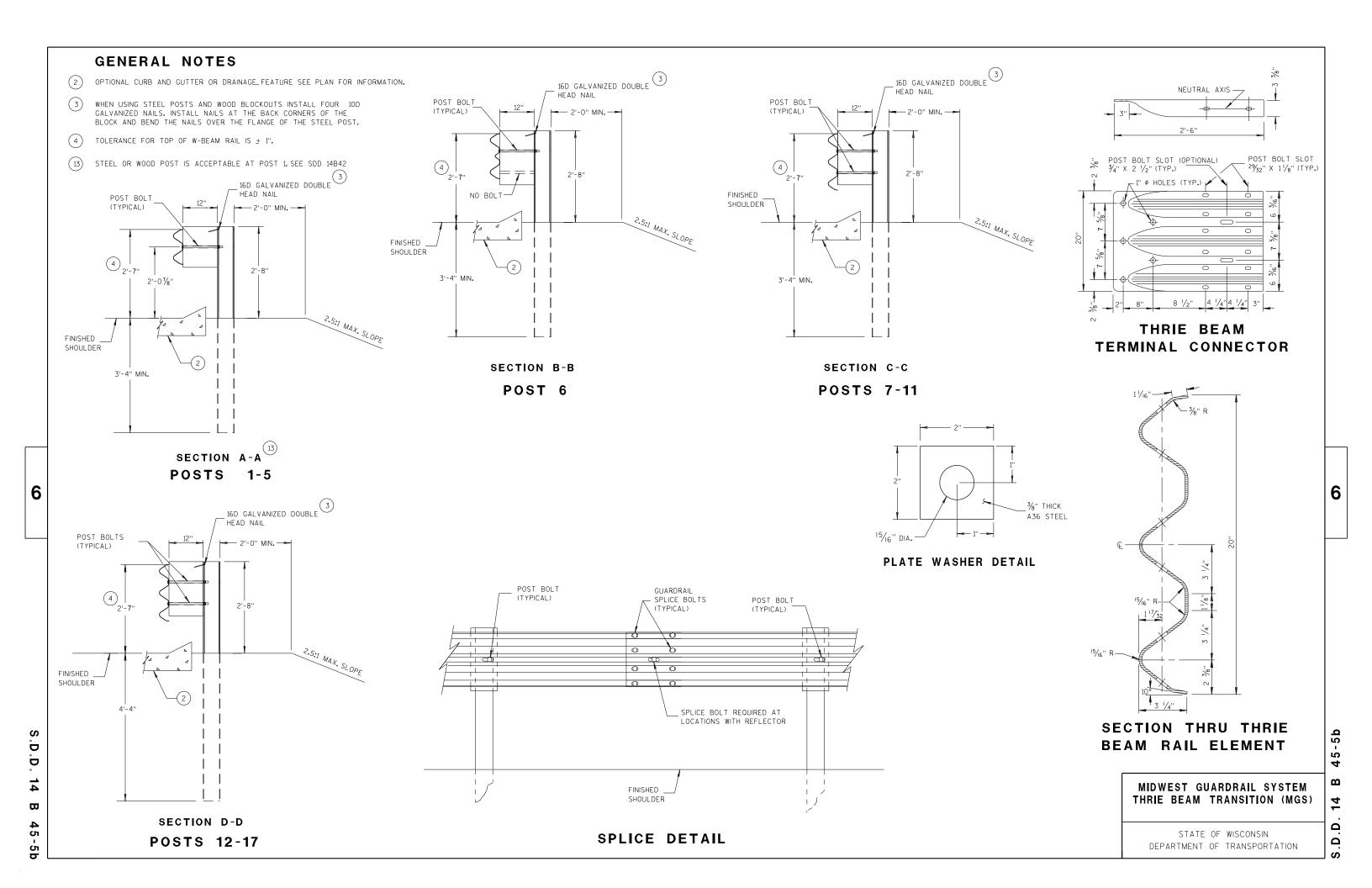
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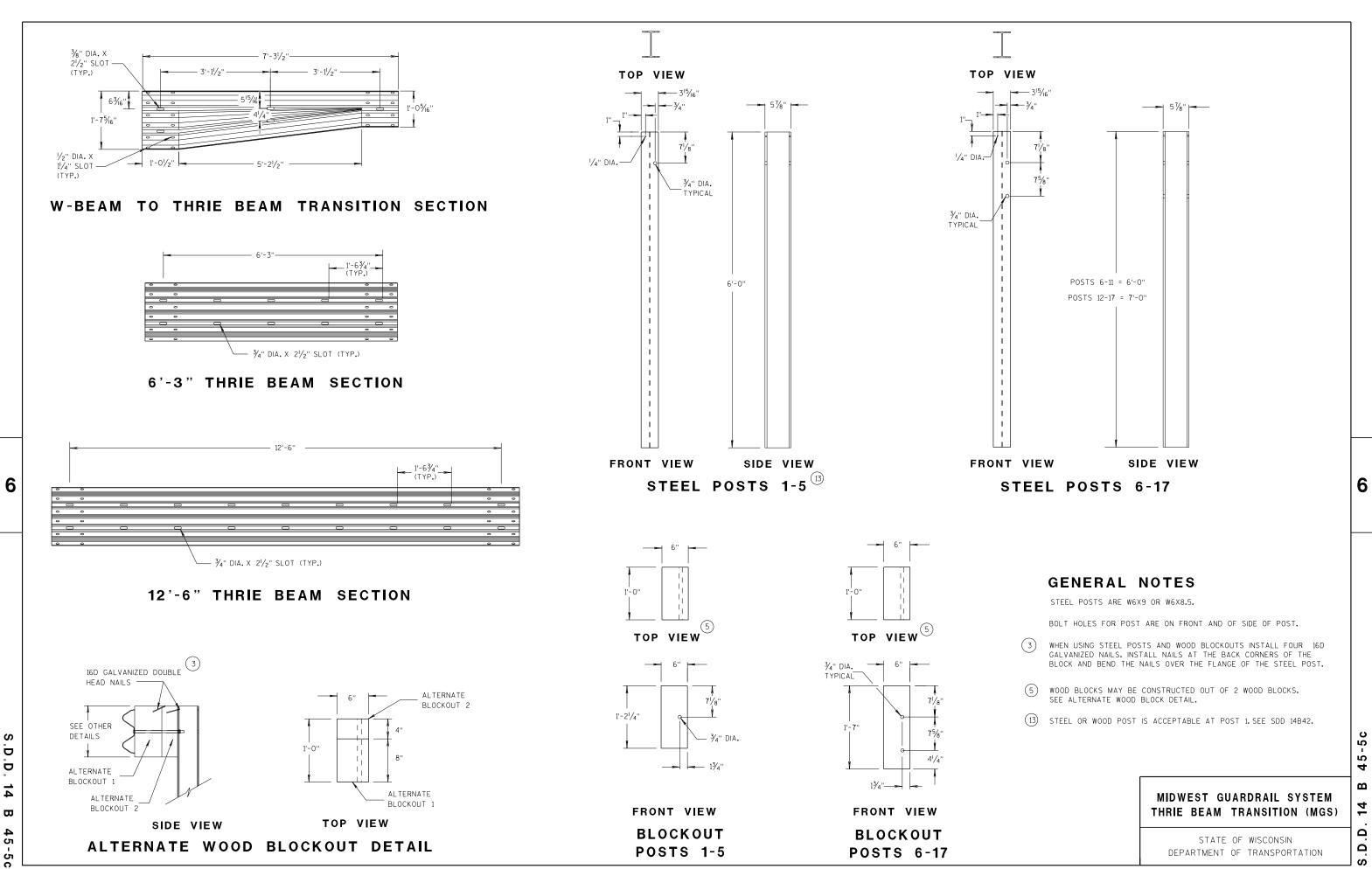
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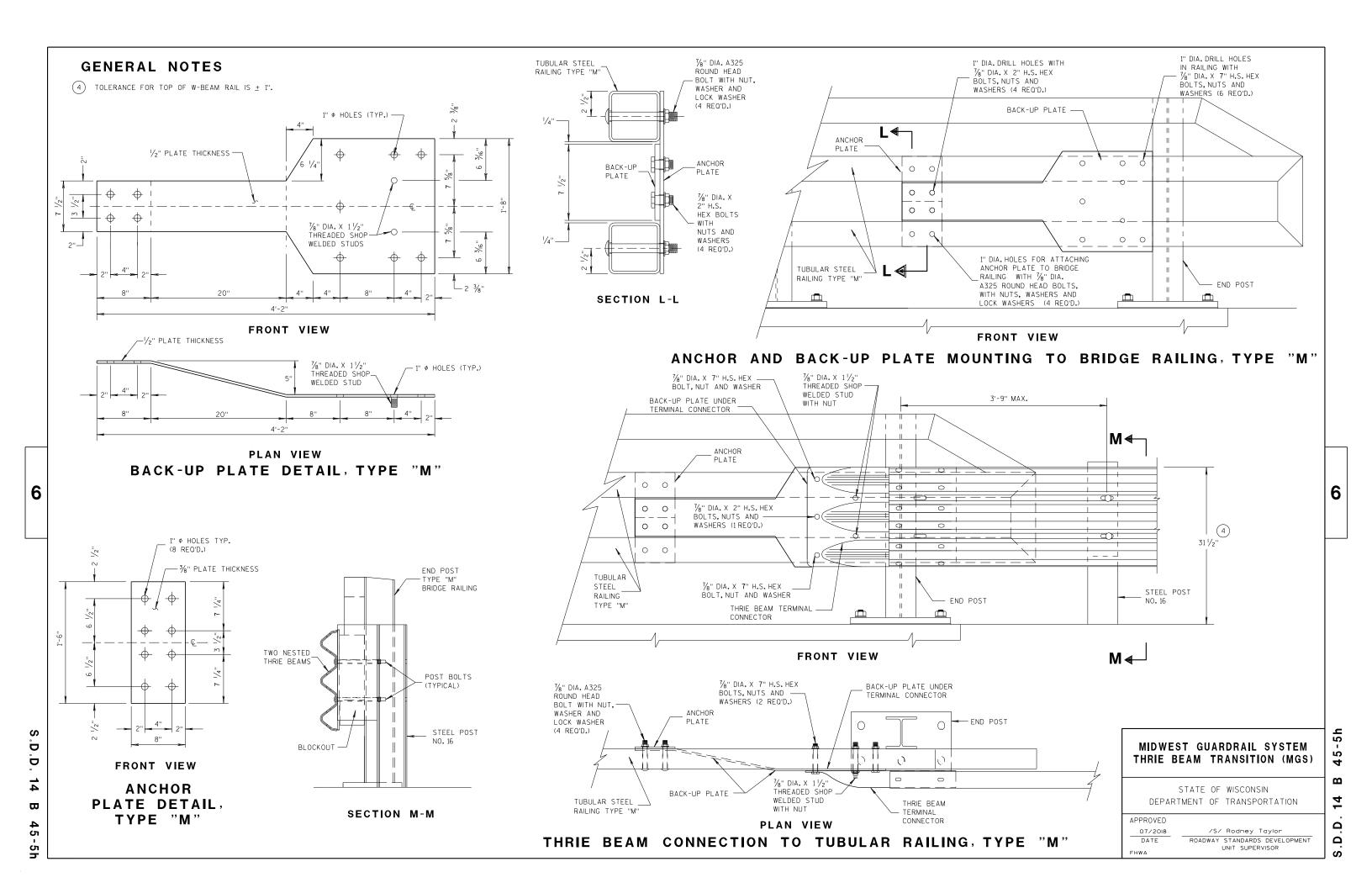
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

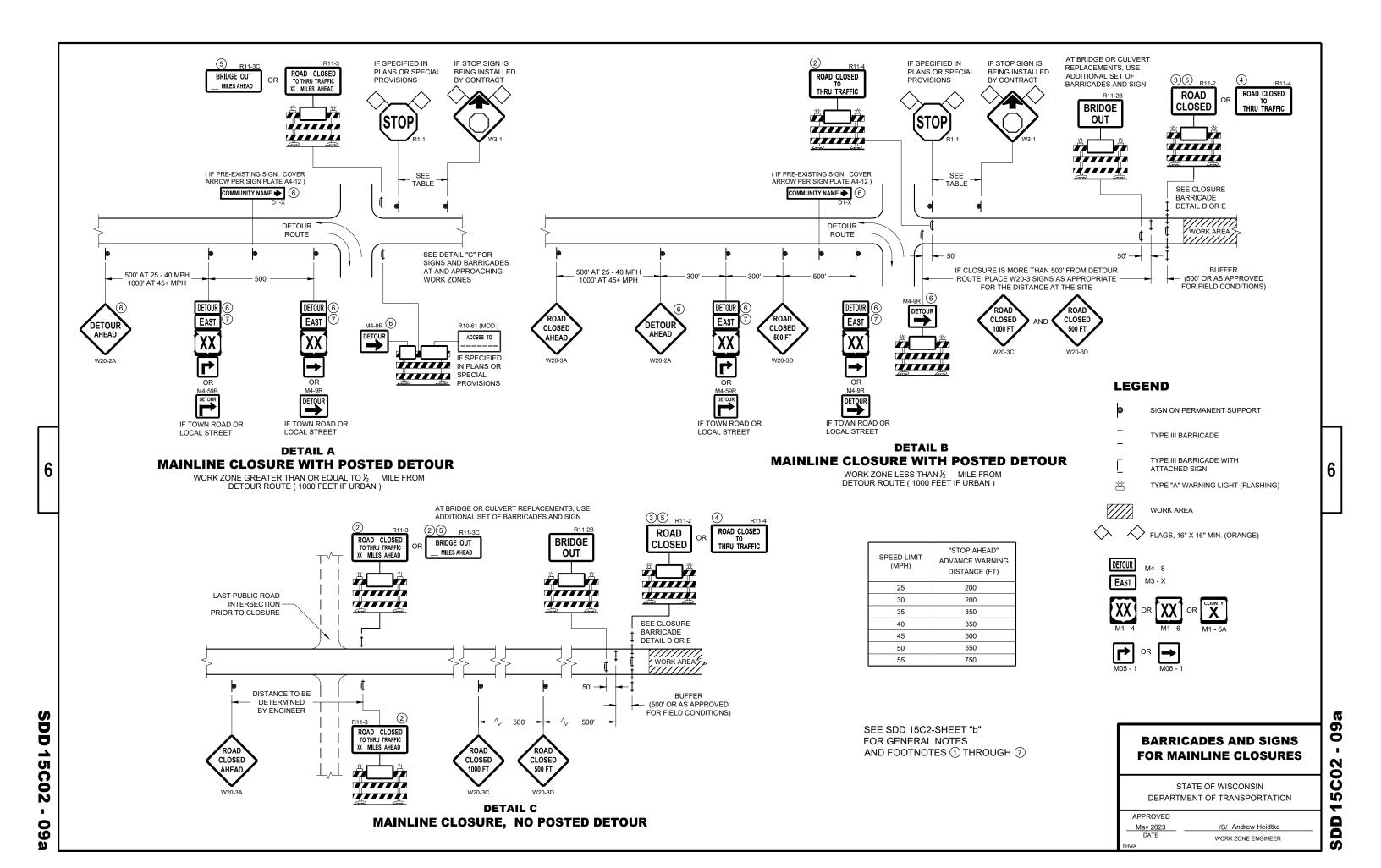


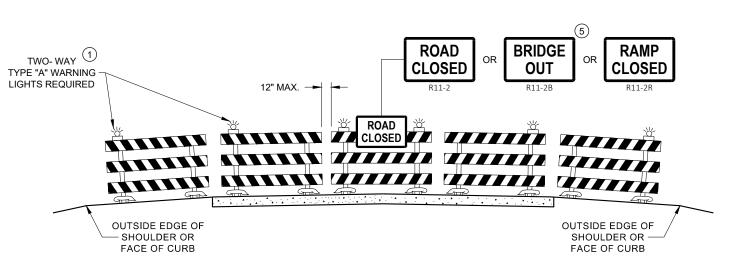




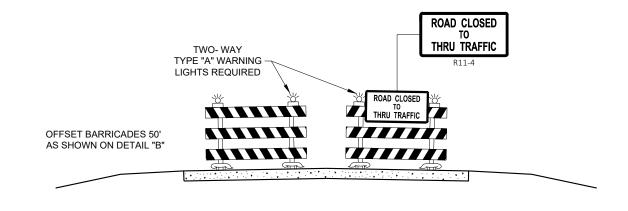








DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



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

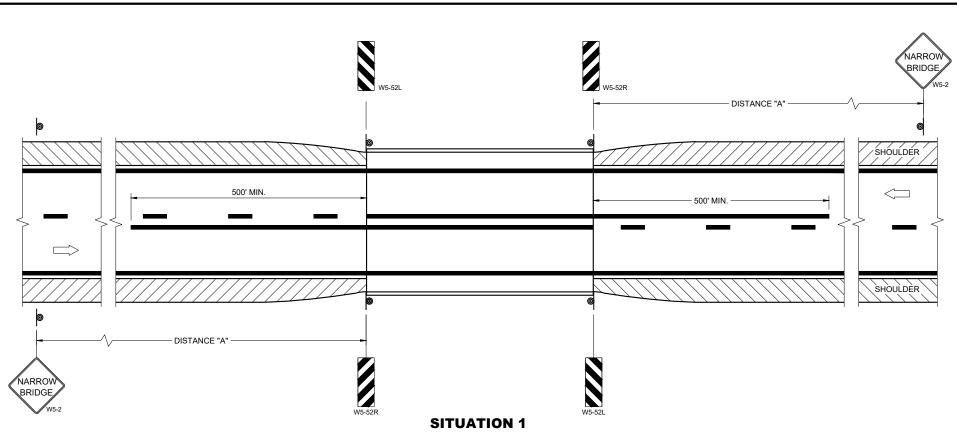
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SDD 15C06-12



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

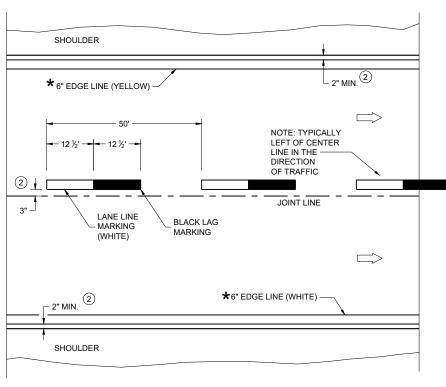
DISTANCE TABLE

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	



ONE WAY TRAFFIC

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

DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS

May 2023 DATE

SDD

6

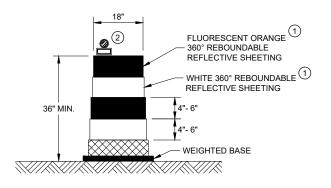
15C08-23a

C08-23 Ŋ SD

STATE OF WISCONSIN /S/ Jeannie Silver Statewide Pavement Marking Engineer

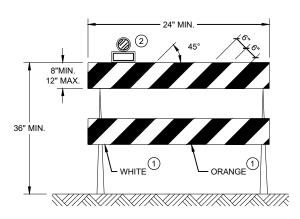
GENERAL NOTES

- (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.



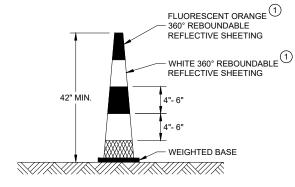
DRUM

BALLAST WIDTHS RANGE FROM 24"-36"



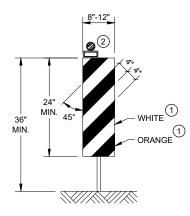
TYPE II BARRICADE

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



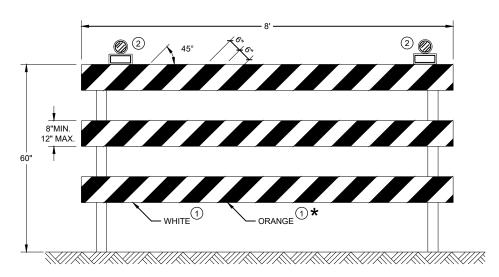
42" CONE

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 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.

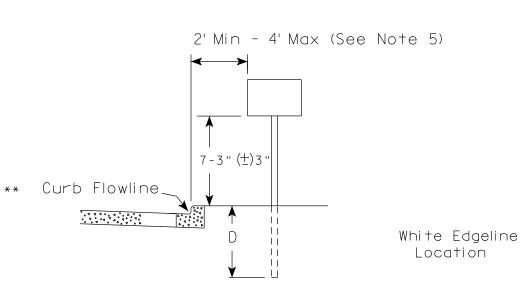
* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

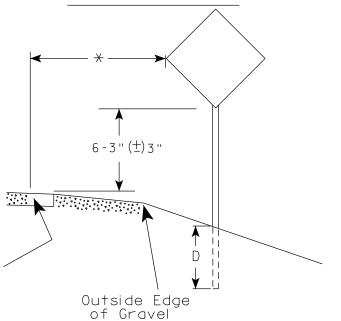
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 15C

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





RURAL AREA (See Note 2)



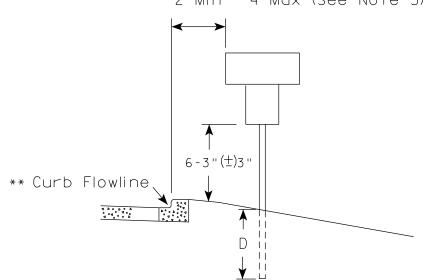
GENERAL NOTES

- 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

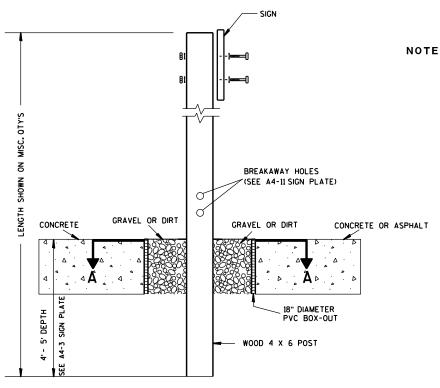
Matthew R Rawh

For State Traffic Engineer

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

Ε

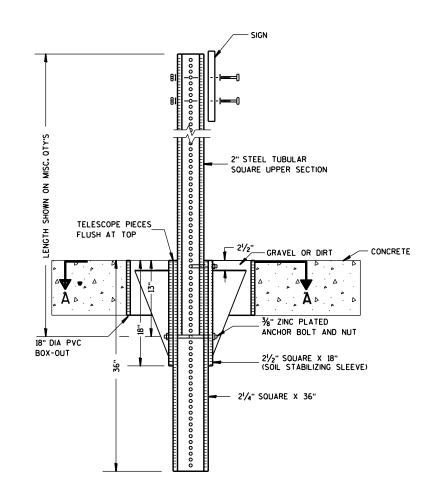
PROJECT NO: HWY: COUNTY: SHEET NO:



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.



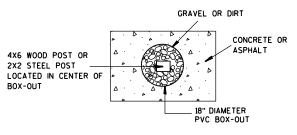
ELEVATION VIEW

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

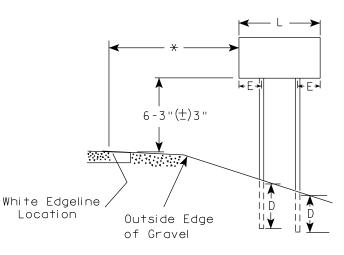
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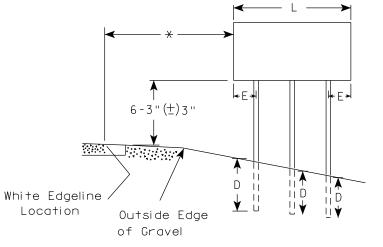
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

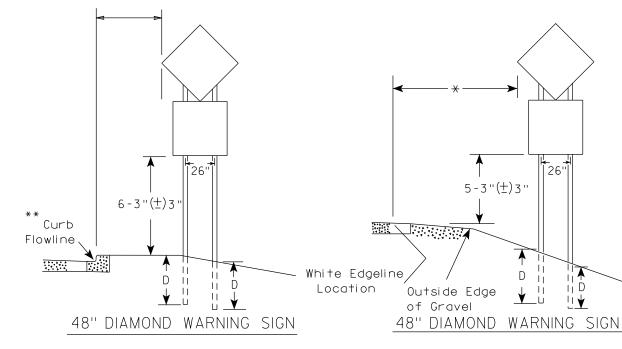
APPROVED

WISDOT/CADDS SHEET 42





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



	SIGN SHAPE OTHER THAN (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:

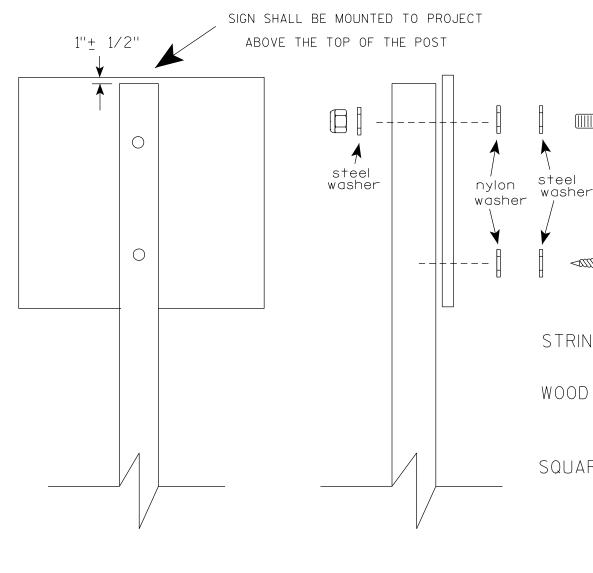
COUNTY:

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

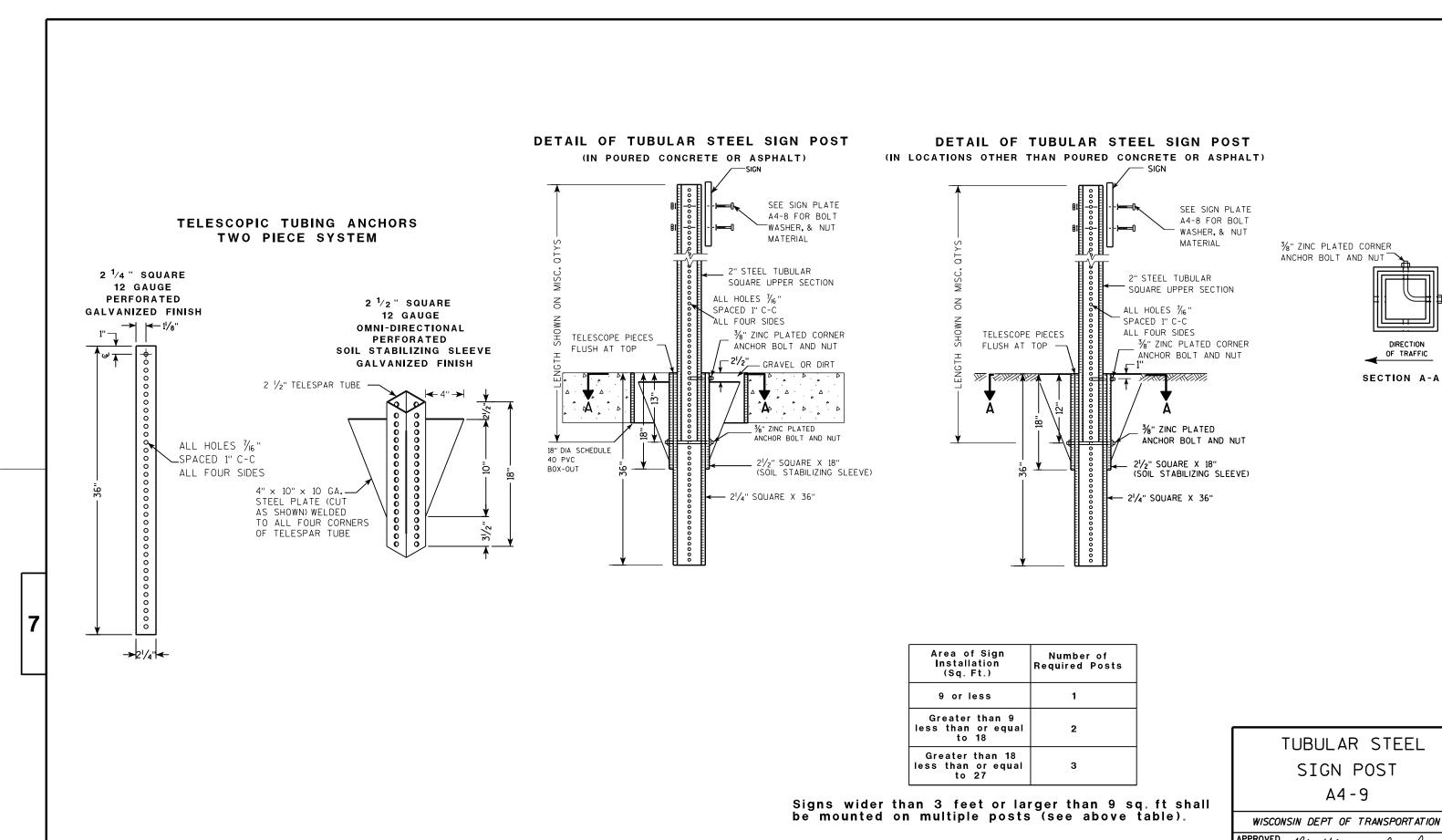
PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

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

PROJECT NO:

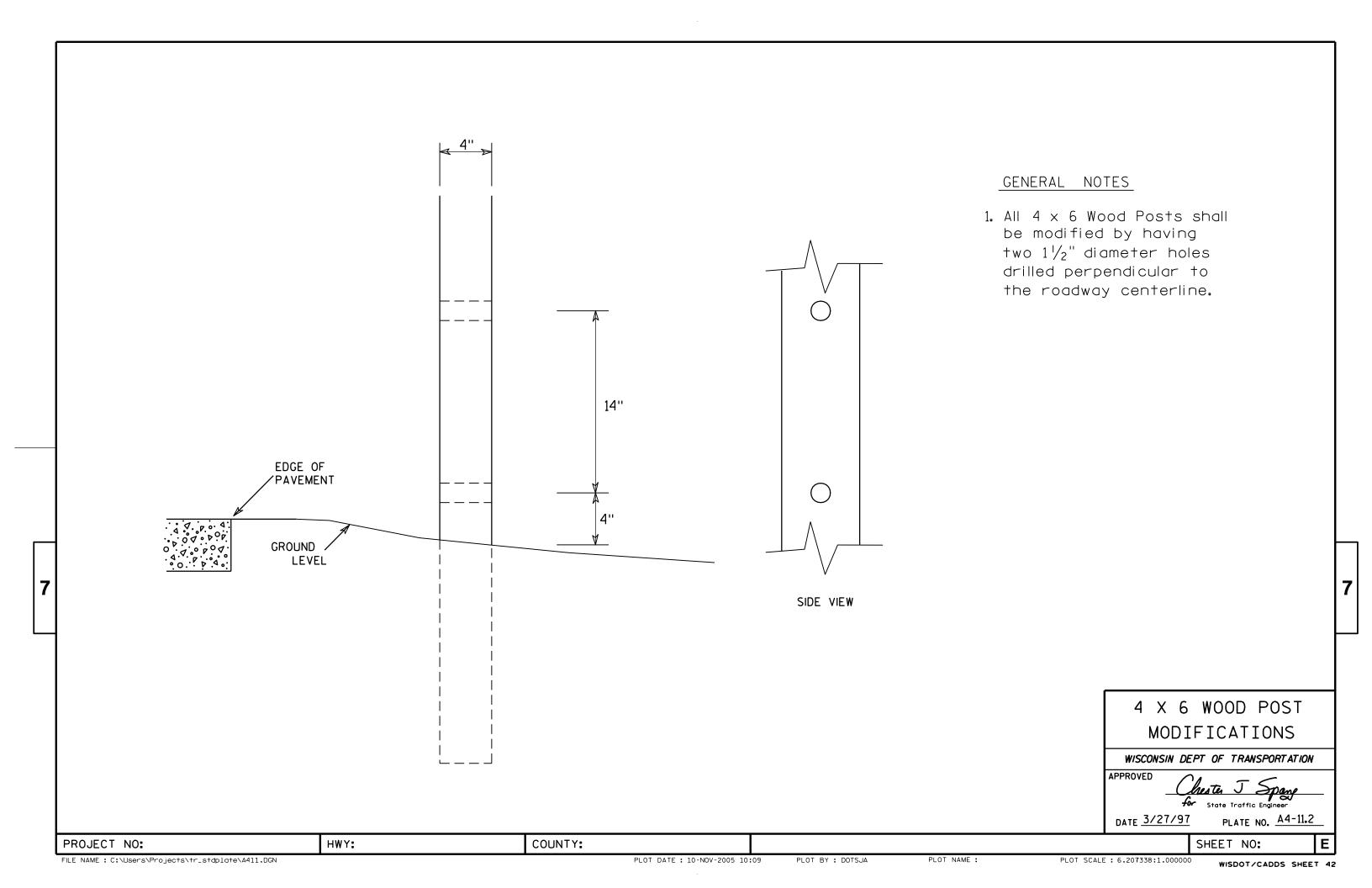


PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

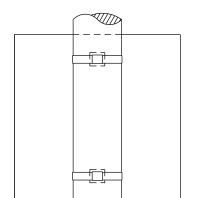
DATE 2/05/15

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

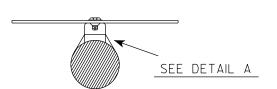
For State Traffic Engineer

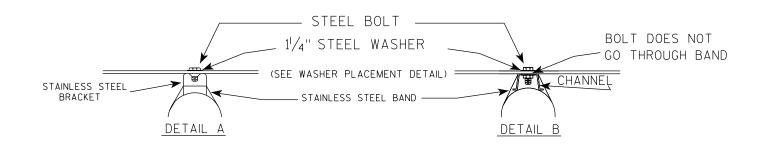


BANDING

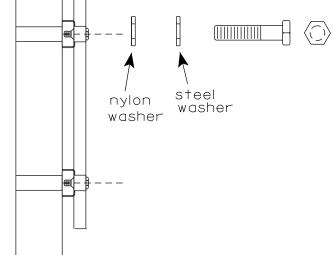


SINGLE SIGN





WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

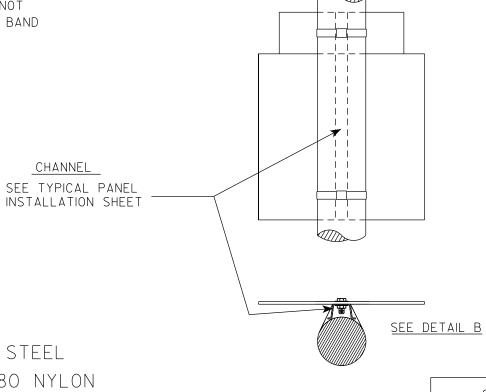
1-1/4" O.D. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

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

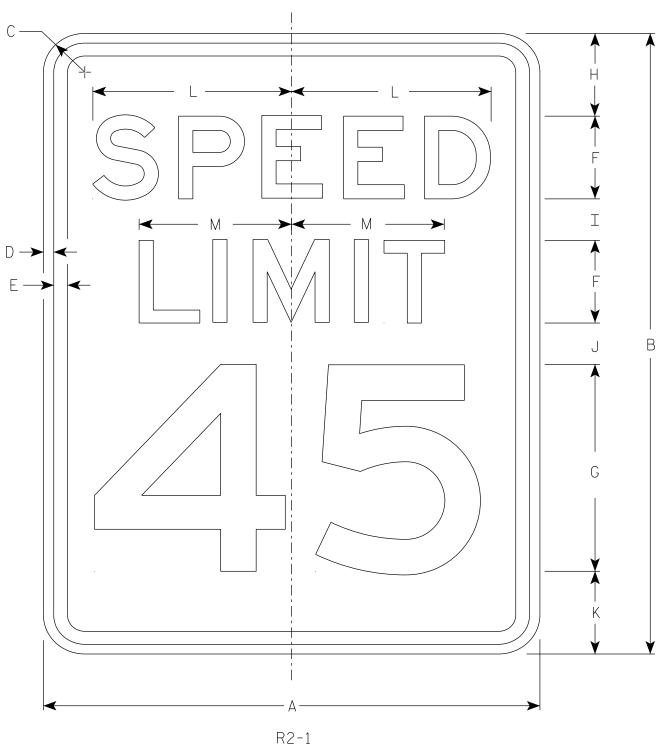
Ε

NOTES

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

Background - White Message - Black

- 3. Message Series E
- 4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/2	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
25	24	30	1 1/2	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 1/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 1/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 1/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	3	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

COUNTY:

STANDARD SIGN R2-1

1/2 1

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED .

DATE 2/1/23

S PLATE NO. R2-1.14

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R21.dgn

HWY:

PROJECT NO:

PLOT DATE: 9-JULY 2024 1:47

PLOT BY : mscj9h

PLOT NAME :

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

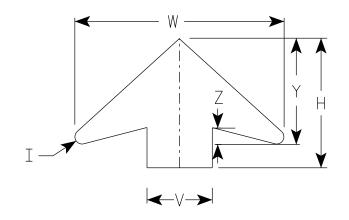
1

- 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

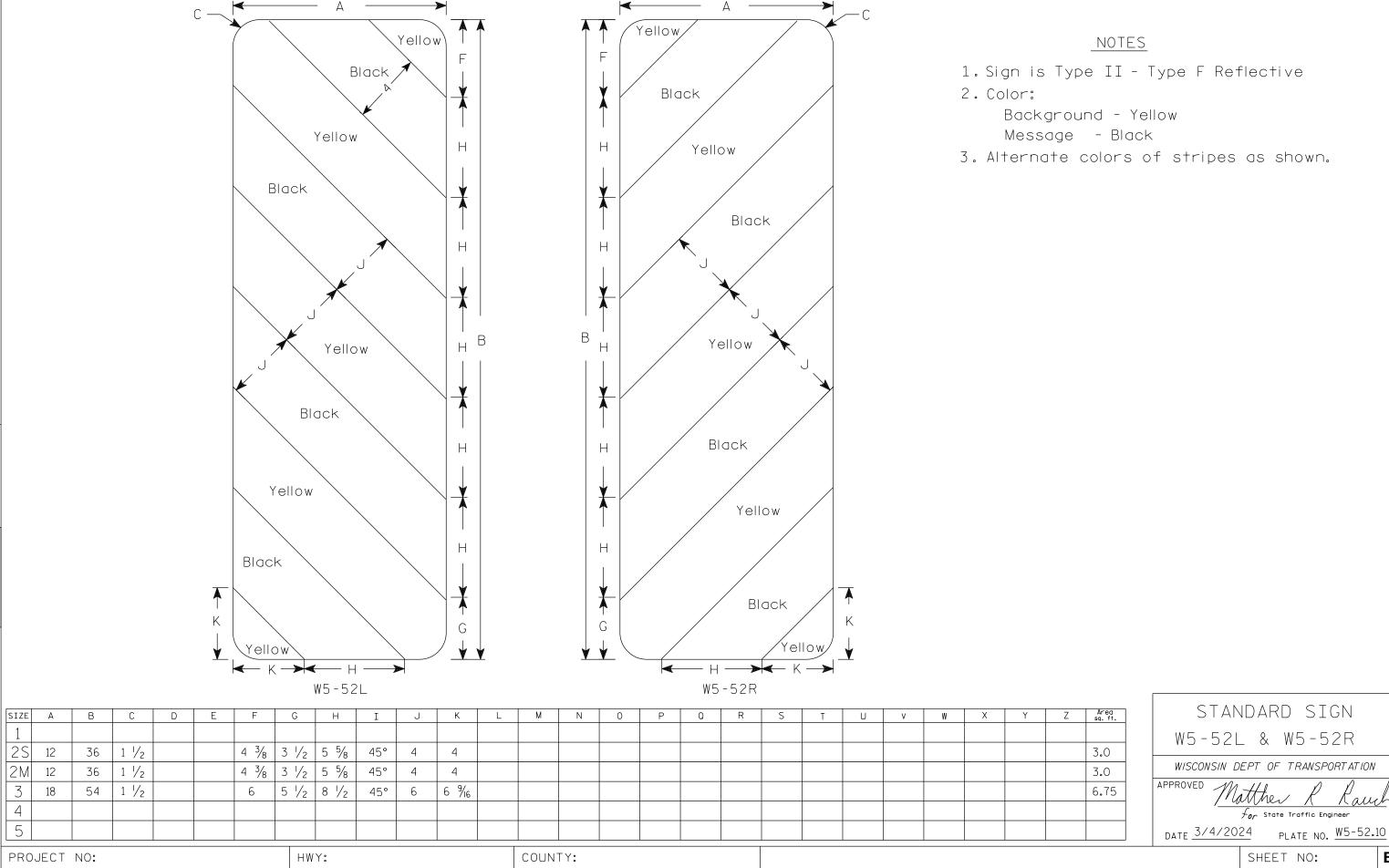
W3 - 5

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



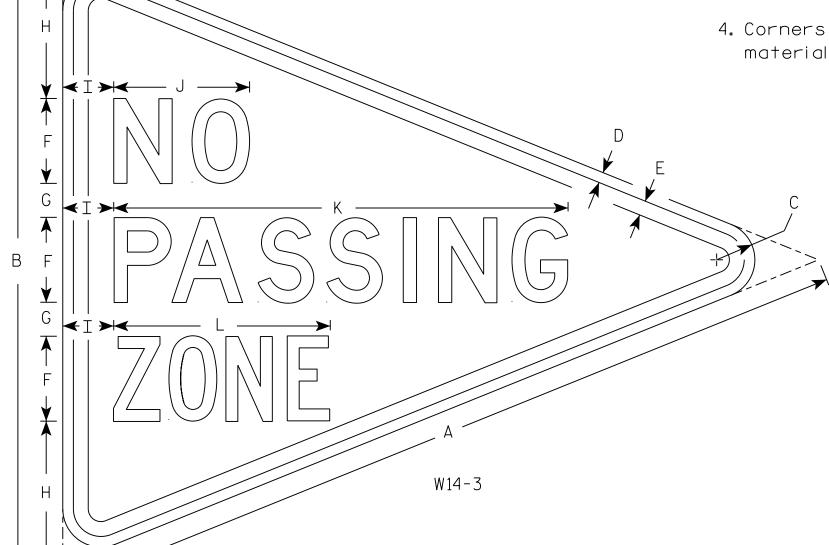
- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Yellow

Message – Black

3. Message Series - Lines 1 and 2 are Series D. Line 3 is series C.

4. Corners and borders shall be rounded on all base materials for this sign.



			,																								
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	<i>7</i> ⁄8	5	2	8 ½	3	8	26 ¾	12 3/4															5.56
2M																											
3																											
4																											
5																											
PRC	PROJECT NO:							WY:					COL	INTY:													

STANDARD SIGN W14-3

WISCONSIN DEPT OF TRANSPORTATION

500 3/21/17

E 3/21/17 PLATE NO. W14-3

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W143.DGN

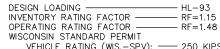
PLOT DATE: 21-MAR-2017 08:48

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

PLOT SCALE : 5.650195:1.000000

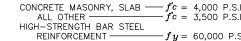
WISDOT/CADDS SHEET 42

7382-00-71



STRUCTURE IS DESIGNED FOR A FUTURE WEARING

MATERIAL PROPERTIES:

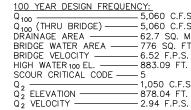


FOUNDATION DATA:

ABUTMENTS TO BE SUPPORTED ON HP 10 X 42

PIERS TO BE SUPPORTED ON HP 10 X 42 PILING

**THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES DYNAMIC FORMULA TO DETERMINE DRIVEN PILE CAPACITY.



BRIDGE OFFICE CONTACT AARON BONK, P.E. (608) 261-0261

CONSULTANT CONTACT ANDY KNUTSON, P.E., S.E.

DESIGN DATA

LIVE LOAD:

DESIGN LOADING — INVENTORY RATING FACTOR — OPERATING RATING FACTOR — WISCONSIN STANDARD PERMIT	RF=	1.15
VEHICLE RATING (WIS.—SPV): —	250	KIF

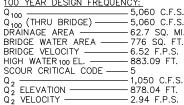
SURFACE OF 20 POUNDS PER SQUARE FOOT.

CONCRETE MASONRY, ALL OTHER	SLAB $-f'c =$	4,000 P.S.I.
HIGH-STRENGTH BAR	STEEL	
REINFORCEMENT —	fy=	60,000 P.S.I.

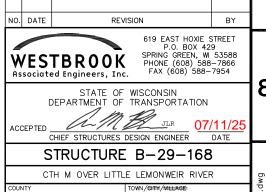
PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 140 TONS PER PILE** AT S. ABUT. AND 130 TONS PER PILE** AT N. ABUT. AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 50 FT PILE LENGTHS AT S. ABUT. AND 45 FT PILE LENGTHS AT N. ABUT.

DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE** AT PIERS 1 AND 2 AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 45 FT PILE LENGTHS AT PIER 1 AND PIER 2.

HYDRAULIC DATA:



(608) 588-7866



GENERAL PLAN

5.060 CFS - 5.060 C.F.S. -62.7 SQ. MI. 776 SQ. FT.



COUNTY			TOWN/6	ΙΤΥ	/ VILLAG I	Ė				
JU	NEAU		LISBON							
DESIGN SPEC. AASHTO L	RFD DE	SIGN SF	PEC.							
DESIGNED JDO	DESIGN CK'D.	CDS	DRAWN BY	J	DO	PLANS CK'D.	ACK			
					S۲	IFFT 1	OF a			

ABUTMENT BACKFILL DETAIL (TYPICAL AT BOTH ABUTMENTS)

REQ'D

(G02)

MISCONSIN

ANDREW C.

KNUTSON

E-34662

SPRING GREEN,

WI

5.22.25

BRIDGE

STRUCTURE

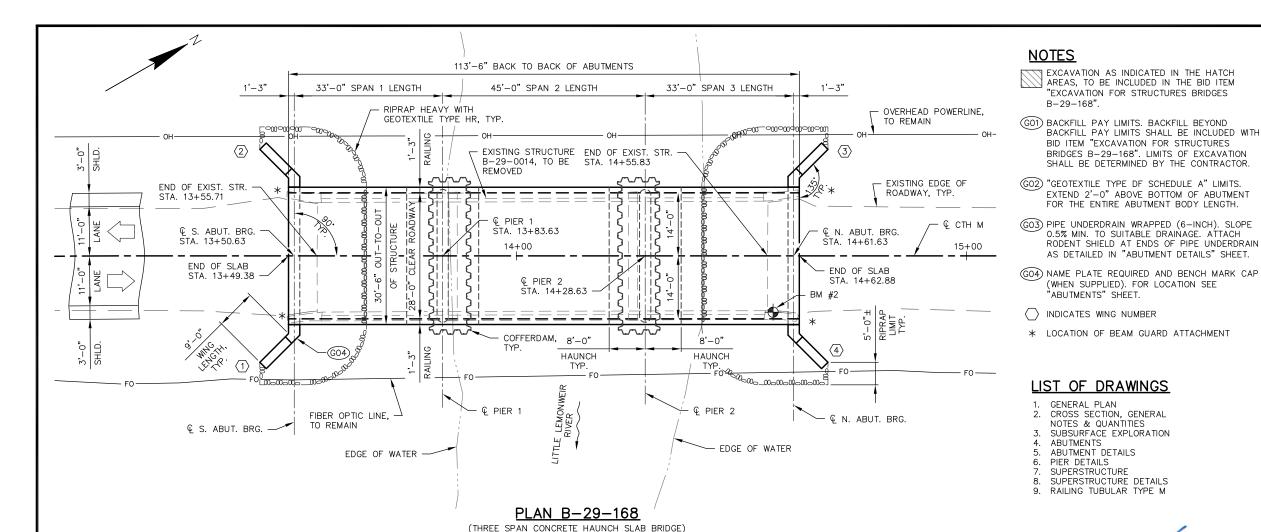
(G03)

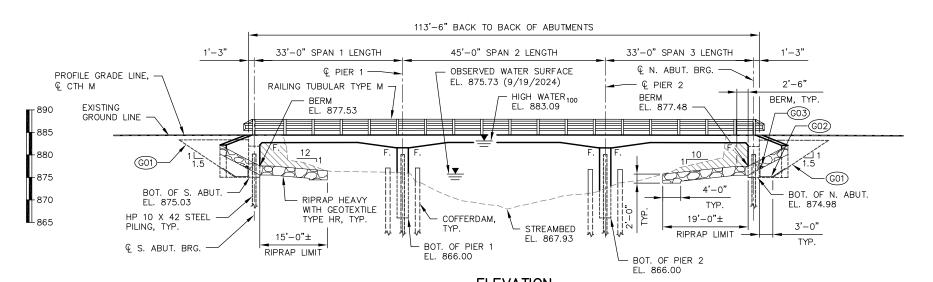
OC =

SUBGRADE

(G01) STRUCTURE

BACKFILL TYPE A





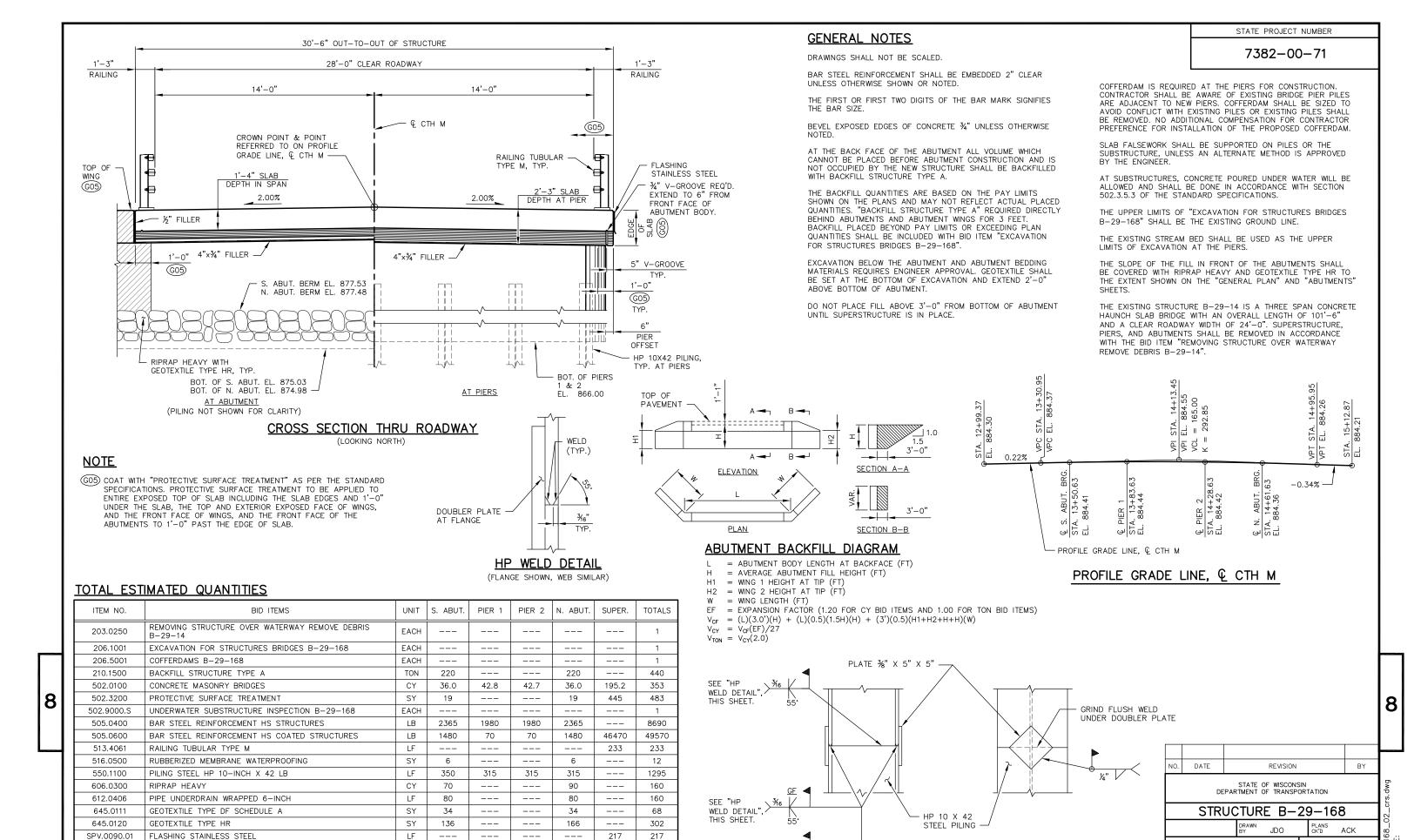
ELEVATION (THRU LITTLE LEMONWEIR RIVER, LOOKING WEST)

TRAFFIC DATA:

BENCH MARKS + STATION/OFFSET DESCRIPTION **ELEVATION** BM #1 10+97.12, 37.41' LT. RAILROAD SPIKE SET IN POWER POLE 879.89 BM #2 14+57.04, 12.52' RT. WISDOT BRONZE DISK MONUMENT 885.06

HORIZONTAL DATUM AND ADJUSTMENT: NAD 83 (2011) VERTICAL DATUM AND ADJUSTMENT, NAVD 88 (2012) COORDINATE REFERENCE SYSTEM: WISCRS JUNEAU CO.

A.A.D.T. (2026) — 490 A.A.D.T. (2046) — 547 DESIGN SPEED -— 50 M.P.H.



IF DOUBLER

PLACED FIRST

1/2" & 3/4"

(NON-BID ITEM) FILLER

SIZE

% \

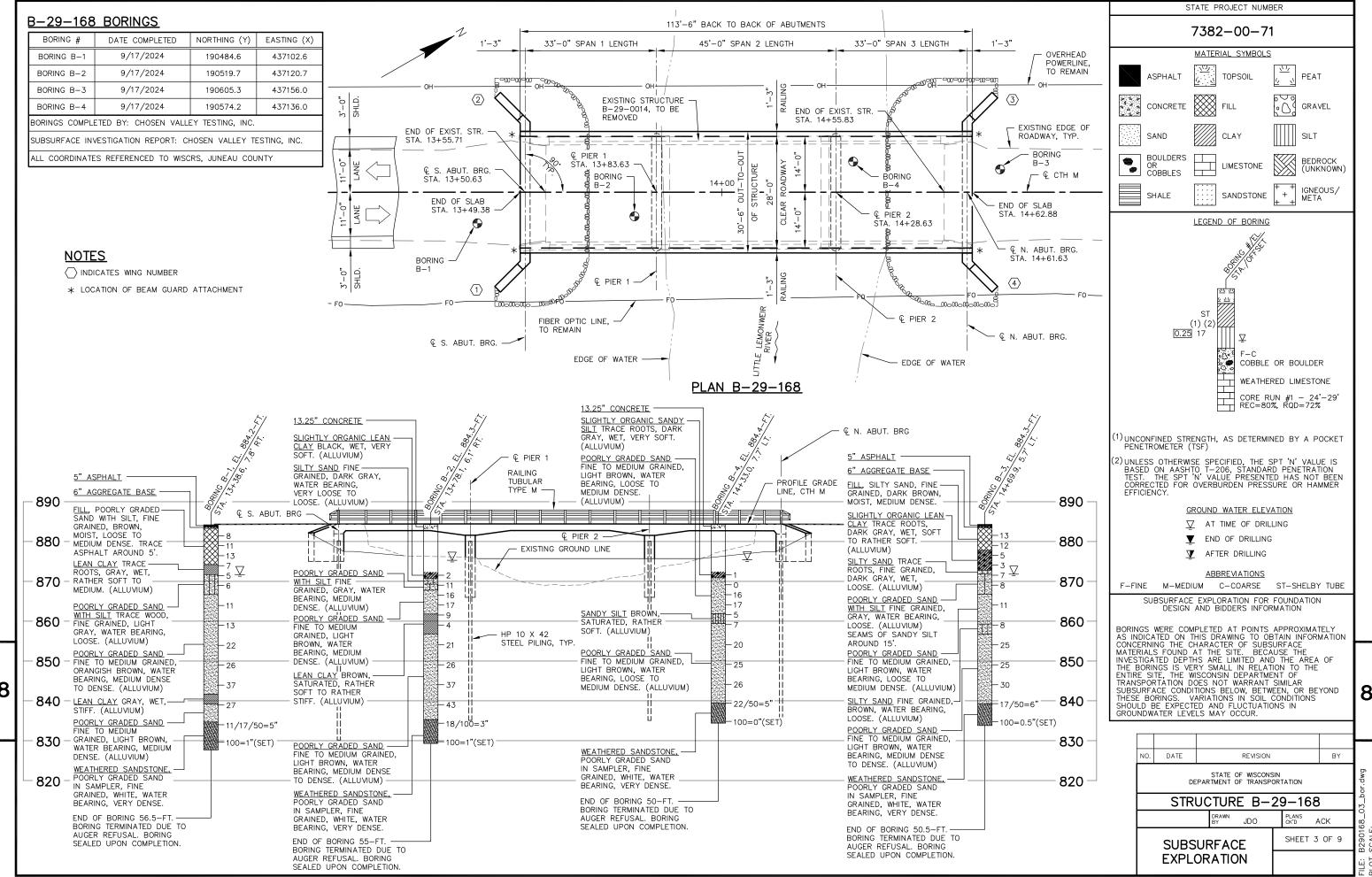
PILE SPLICE DETAILS

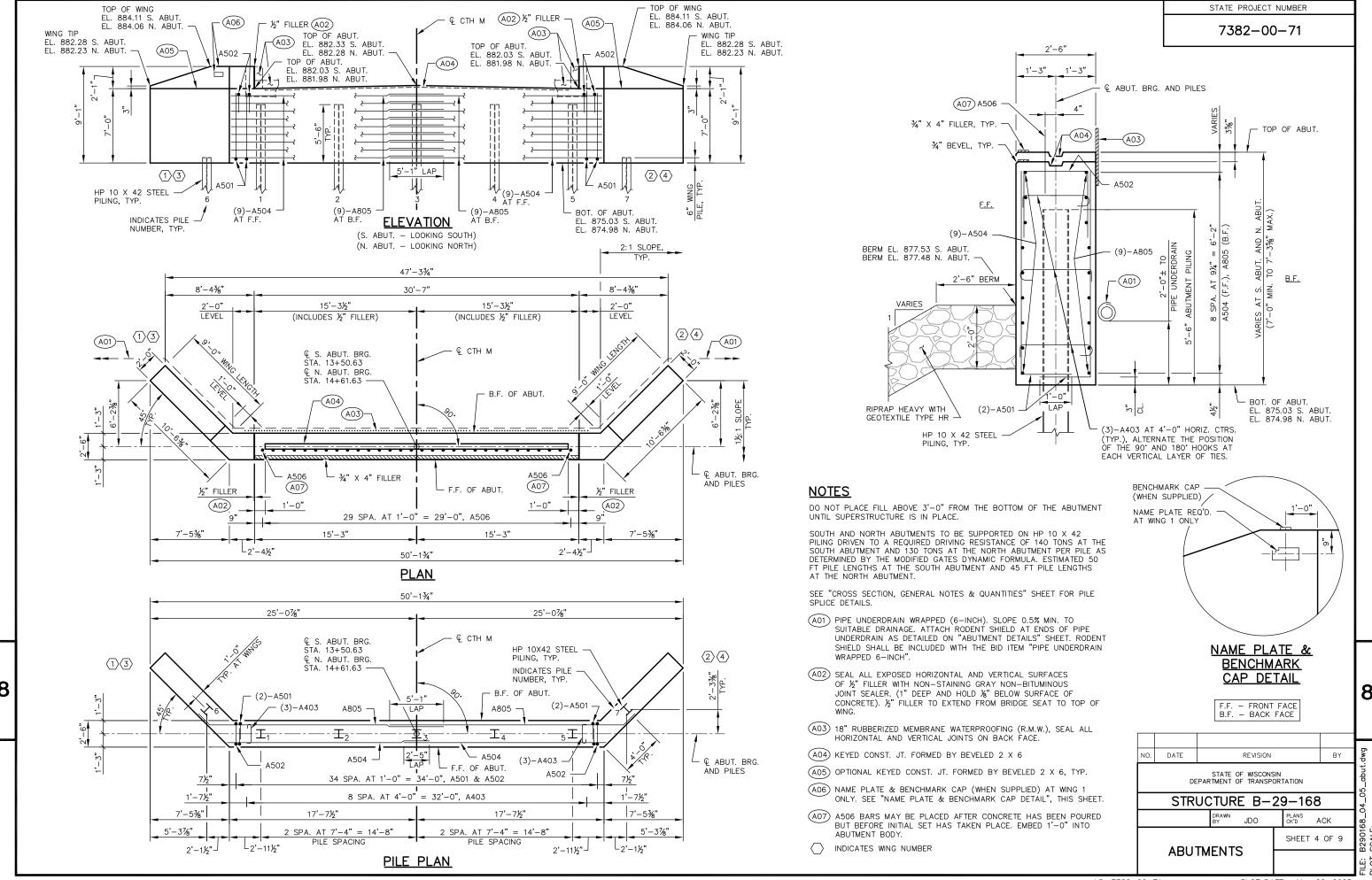
CROSS SECTION,

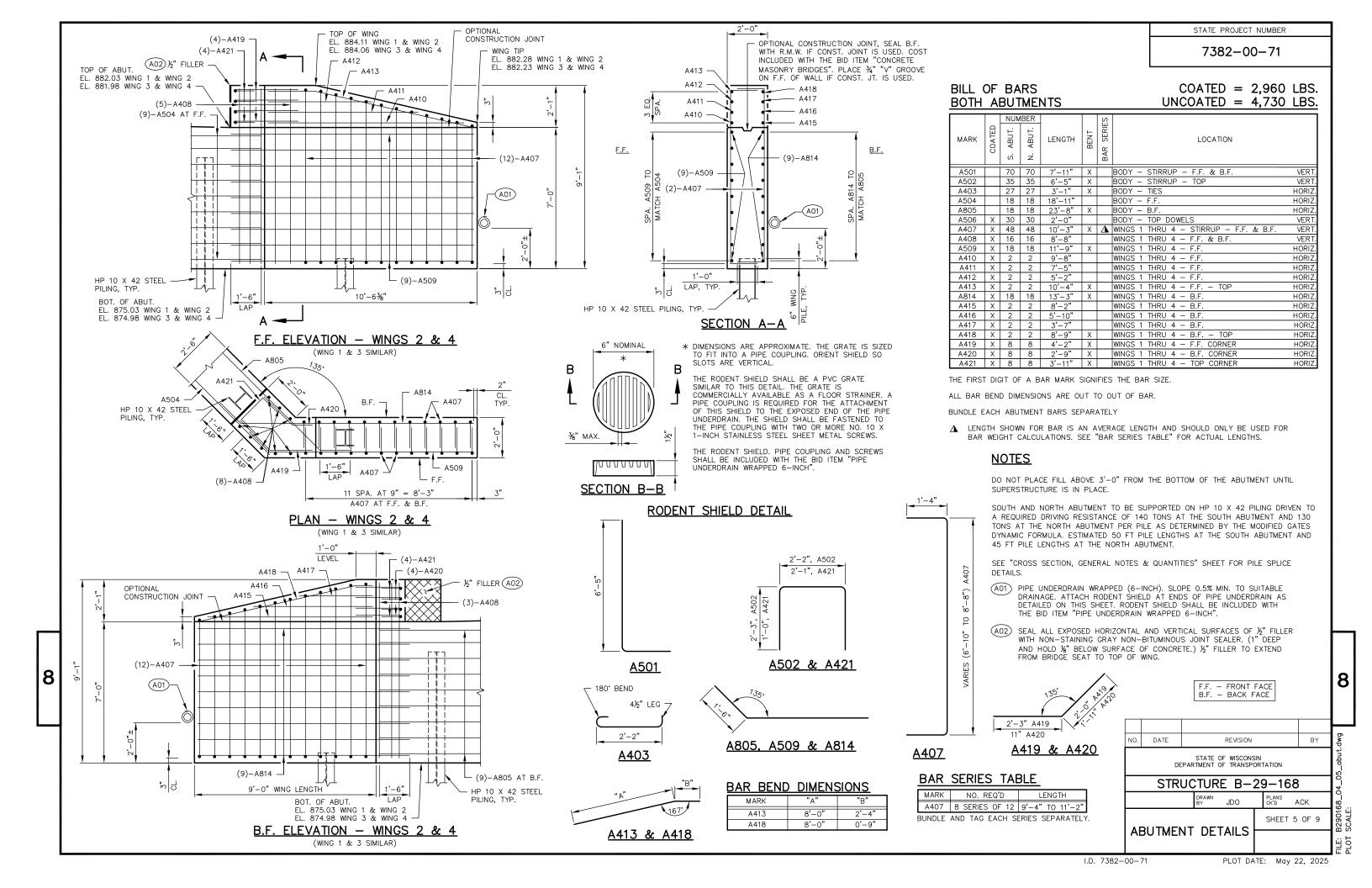
GENERAL NOTES &

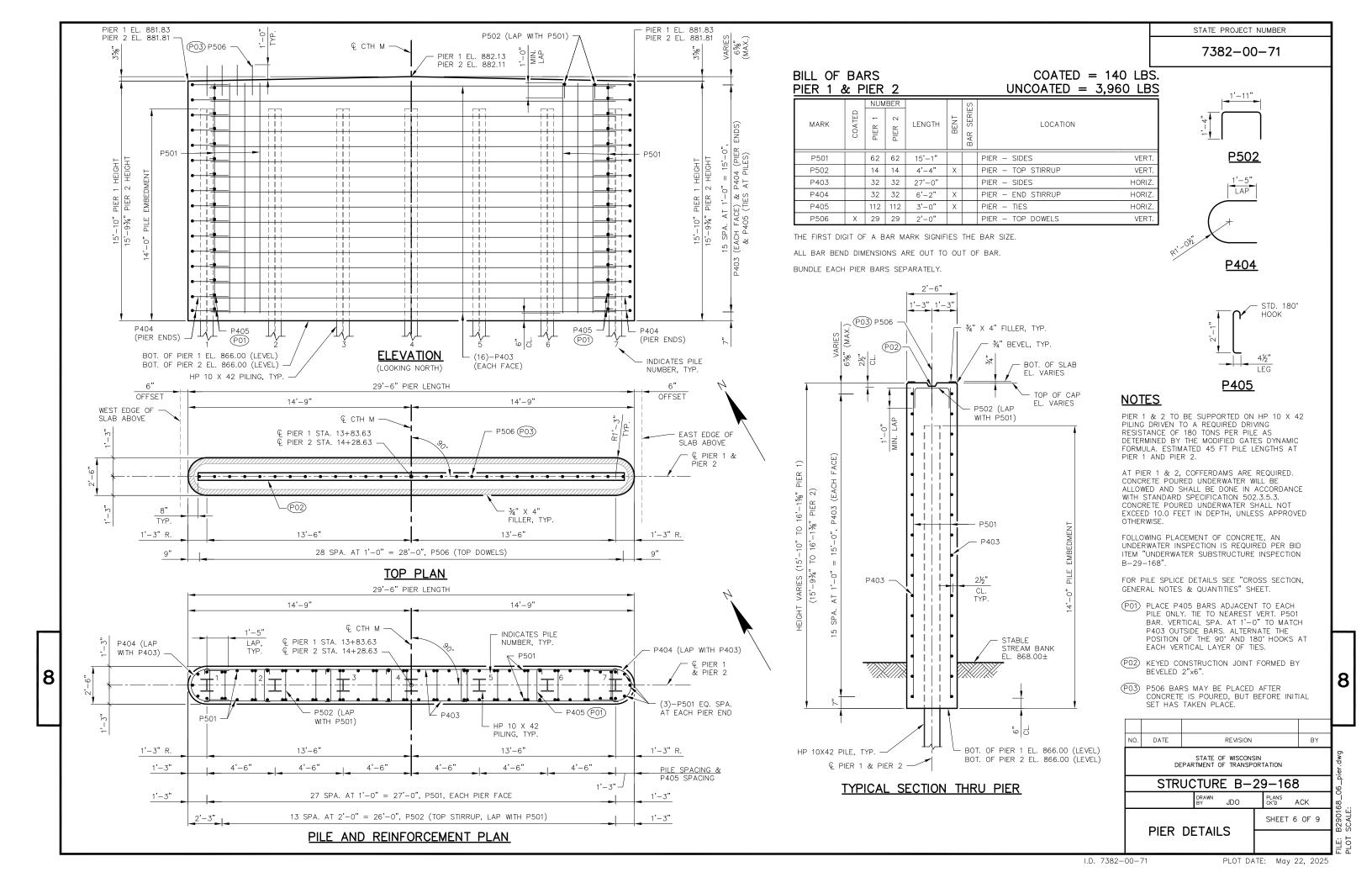
QUANTITIES

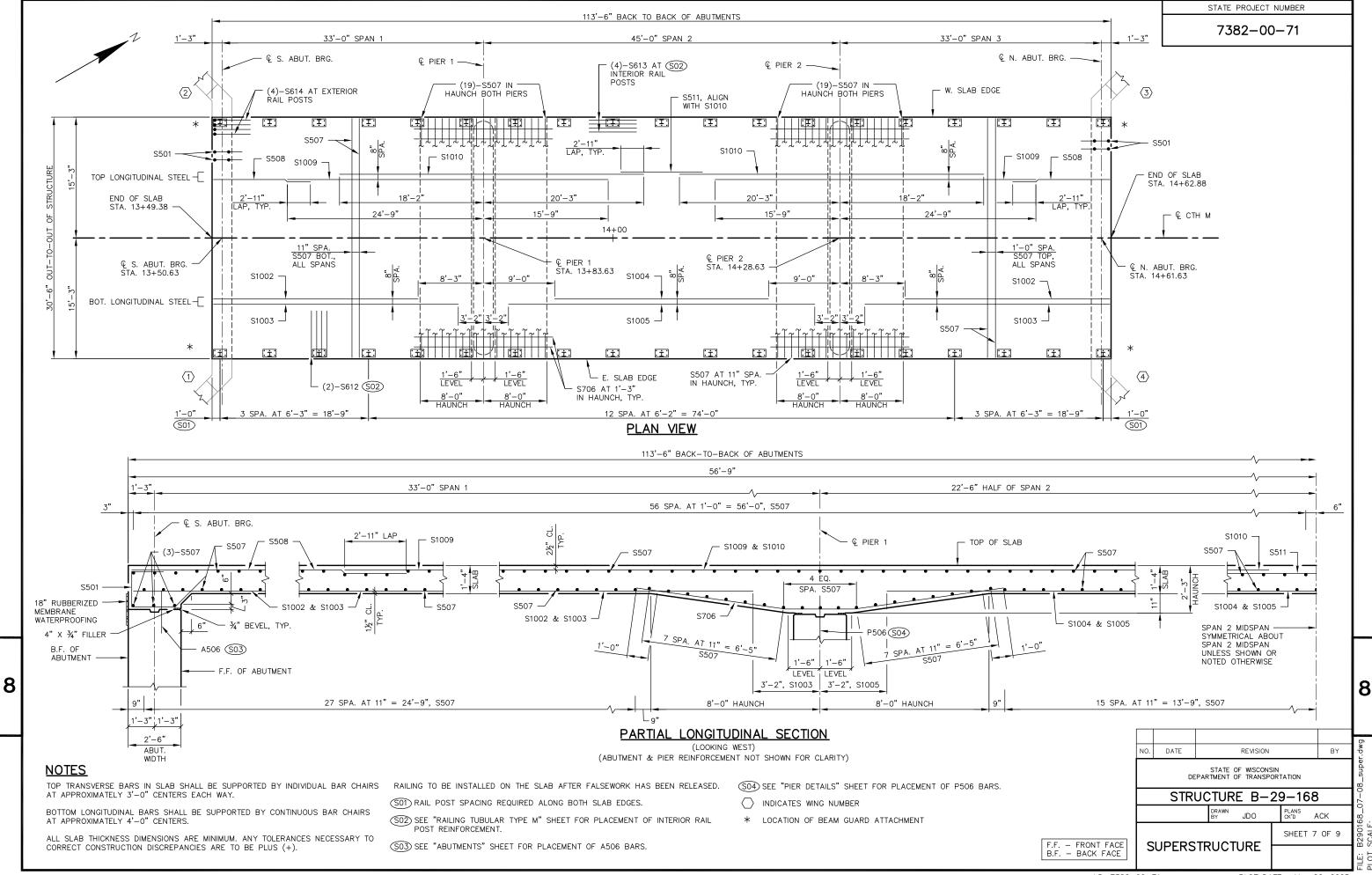
SHEET 2 OF 9

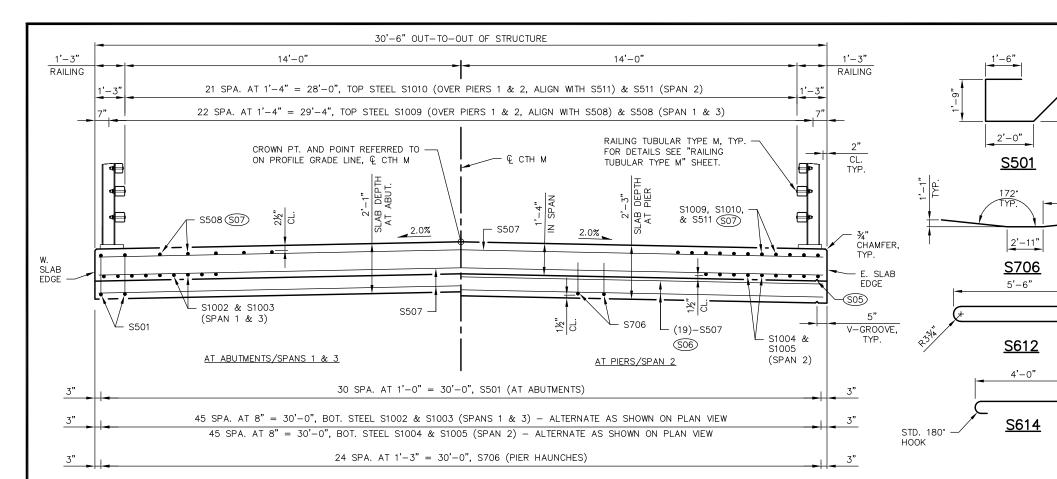












BILL OF BARS SUPERSTRUCTURE

7382-00-71COATED = 46,470 LBS.

STATE PROJECT NUMBER

	NUM	BER			S		
MARK	COATED	UNCOATED	LENGTH	BENT	BAR SERIES	LOCATION	
S501	62		7'-1"	Χ		SLAB AT ABUTMENT - TIES	LONGIT.
S1002	46		25'-10"			SLAB - BOTTOM - SPAN 1 & 3	LONGIT.
S1003	46		30'-11"			SLAB - BOTTOM - SPAN 1 & 3	LONGIT.
S1004	23		27'-0"			SLAB - BOTTOM - SPAN 2	LONGIT.
S1005	23		38'-8"			SLAB - BOTTOM - SPAN 2	LONGIT.
S706	50		17'-7"	Χ		SLAB - BOTTOM IN PIER HAUNCHES	LONGIT.
S507	245		30'-2"			SLAB - TOP & BOTTOM	TRANS.
S508	46		12'-3"			SLAB - TOP - SPAN 1 & 3	LONGIT.
S1009	46		40'-6"			SLAB - TOP - OVER PIERS	LONGIT.
S1010	44		38'-5"			SLAB - TOP - OVER PIERS	LONGIT.
S511	22		10'-4"			SLAB - TOP - SPAN 2	LONGIT.
S612	76		11'-6"	Χ		SLAB - TOP AT RAIL POSTS	TRANS.
S613	136		6'-0"			SLAB - TOP AT INTERIOR RAIL POSTS	LONGIT.
S614	16		4'-8"	Χ		SLAB - TOP AT END RAIL POSTS	LONGIT.

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

ALL BAR BEND DIMENSIONS ARE OUT TO OUT OF BAR.

NOTES

TYP.

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

THE BID ITEM "FLASHING STAINLESS STEEL" SHALL INCLUDE PROVIDING AND INSTALLING THE STAINLESS STEEL FLASHING, CAULK, CONCRETE SCREWS AND CLEANING THE EDGE OF THE SLAB PRIOR TO ATTACHMENT OF THE FLASHING.

FLASHING TO BE INSTALLED AFTER PROTECTIVE SURFACE TREATMENT APPLICATION.

CONCRETE SCREWS SHALL BE 410 STAINLESS STEEL.

EXTEND FLASHING TO F.F. OF ABUTMENTS.

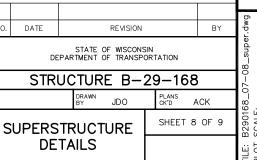
TOP OF FLASHING TO BEGIN APPROX. 1—INCH BELOW TOP OF SLAB SURFACE.

THE FLASHING IS TO BE A CONSTANT HEIGHT BASED ON THE THINNEST SLAB DEPTH OVER THE BRIDGE LENGTH.

PROVIDE 2" MINIMUM FLASHING OVERLAP, FASTEN WITH $\frac{3}{16}$ " X 2" (MIN.) CONCRETE SCREWS.

CAULK SHALL BE NON-STAINING, GRAY NON-BITUMINOUS JOINT

- (\$05) ¾" V-GROOVE. EXTEND V-GROOVE TO 6" FROM FRONT FACE OF ABUTMENT BODY. V-GROOVES ARE REQUIRED.
- \$60 SEE "SUPERSTRUCTURE" SHEET FOR PIER HAUNCH S507 BAR LAYOUT.
- SO7) ALIGN S508 & S511 BARS WITH S1009 & S1010 RESPECTIVELY.
- (\$08) COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD SPECIFICATIONS. PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE EDGE OF SLAB AND 1'-0" UNDER SLAB BETWEEN F.F. OF ABUTMENTS.



CROSS SECTION THRU ROADWAY

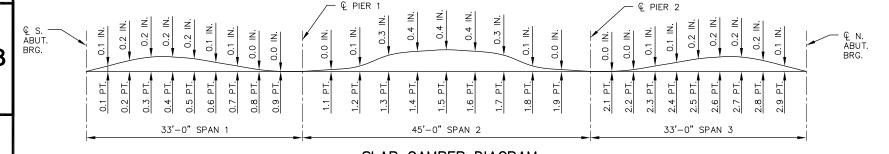
(LOOKING NORTH)

SURVEY TOP OF SLAB ELEVATIONS

	€ S. ABUT. BRG.	5/10 PT.	© PIER 1	5/10 PT.	© PIER 2	5/10 PT.	€ N. ABUT. BRG.
WEST SLAB EDGE							
€ СТН М							
EAST SLAB EDGE							

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF DECK ELEVATIONS AT THE $\mathbb Q$ OF ABUTMENTS, $\mathbb Q$ OF PIERS AND AT 5/10 POINTS TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND REFERENCE LINE. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

FLASHING DETAIL



SLAB CAMBER DIAGRAM

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

TOP OF SLAB ELEVATION AT FINAL GRADE LESS SLAB THICKNESS

LESS SLAB THICKNES PLUS CAMBER

PLUS FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)

EQUALS TOP OF SLAB FALSEWORK ELEVATION.

SPAN PT	WEST SLAB EDGE	€ СТН M	EAST SLAB EDGE
€ S. ABUT.	884.11	884.41	884.11
0.1	884.11	884.41	884.11
0.2	884.12	884.42	884.12
0.3	884.12	884.42	884.12
0.4	884.12	884.42	884.12
0.5	884.13	884.43	884.13
0.6	884.13	884.43	884.13
0.7	884.13	884.43	884.13
0.8	884.13	884.43	884.13
0.9	884.14	884.44	884.14
© PIER 1	884.14	884.44	884.14
1.1	884.14	884.44	884.14
1.2	884.14	884.44	884.14
1.3	884.14	884.44	884.14
1.4	884.14	884.44	884.14
1.5	884.14	884.44	884.14
1.6	884.13	884.43	884.13
1.7	884.13	884.43	884.13
1.8	884.13	884.43	884.13
1.9	884.12	884.42	884.12
© PIER 2	884.12	884.42	884.12
2.1	884.11	884.41	884.11
2.2	884.11	884.41	884.11
2.3	884.10	884.40	884.10
2.4	884.10	884.40	884.10
2.5	884.09	884.39	884.09
2.6	884.09	884.39	884.09
2.7	884.08	884.38	884.08
2.8	884.07	884.37	884.07
2.9	884.07	884.37	884.07

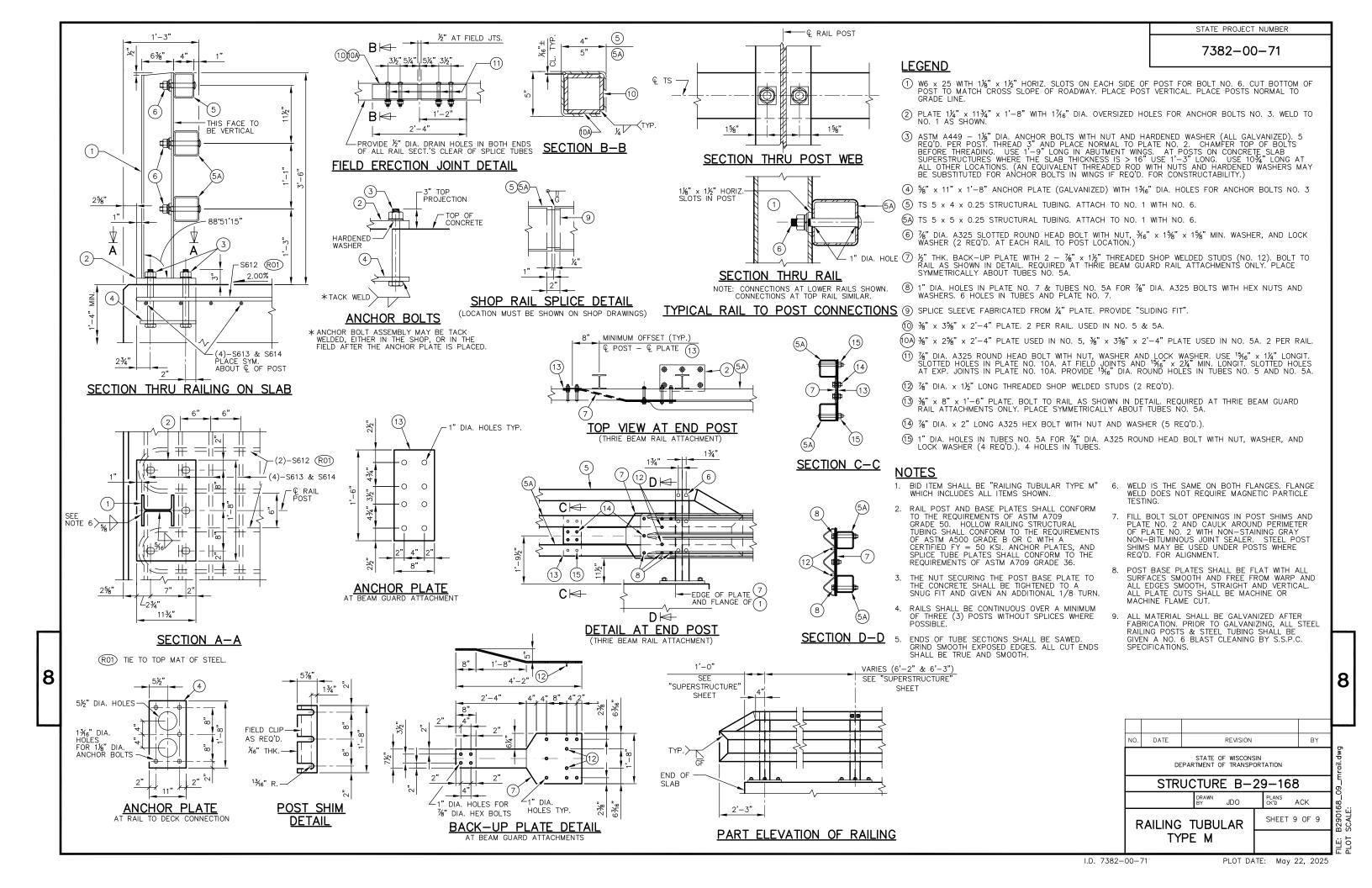
Ç N. ABUT.

884.06

884.36

884.06

TOP OF SLAB ELEVATIONS



	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
STATION DIST		CUT	SALVAGED/UNUSABLE	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
			PAVEMENT MATERIAL		NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
11+42.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0
11+50.00	8.00	7.71	0.00	32.02	1	0	5	1	6	-5
12+00.00	50.00	7.31	0.00	85.72	14	0	109	15	143	-128
12+10.00	10.00	7.69	3.67	88.90	3	1	32	18	183	-166
12+59.13	49.13	6.57	3.67	131.61	13	7	201	31	434	-411
12+84.32	25.19	7.45	3.67	103.16	7	3	110	38	571	-544
12+99.37	15.05	7.37	3.67	87.23	4	2	53	42	638	-609
13+09.57	10.20	29.91	11.67	74.00	7	3	30	49	675	-642
13+49.38	39.81	33.69	11.67	73.76	47	17	109	96	811	-748
					STRUCTURE B-	29-0168				
SOUTH APPROACH TOTALS		96	33	649						

		AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
STATION DIS	DISTANCE	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
STRUCTURE B-29-0168										
14+62.87	0.00	31.86	11.67	84.00	0	0	0	0	0	0
15+02.72	39.85	27.12	11.67	104.01	44	17	139	0	174	-147
15+12.87	10.15	5.44	11.67	115.15	6	4	41	0	225	-196
15+27.69	14.82	6.19	3.67	96.37	3	4	58	0	298	-270
15+50.00	22.31	7.75	3.67	93.50	6	3	78	0	395	-364
15+52.69	2.69	7.53	3.67	97.21	1	0	10	0	408	-376
16+00.00	47.31	5.42	3.67	78.83	11	6	154	0	600	-563
16+03.00	3.00	7.18	3.67	67.45	1	0	8	0	610	-572
16+50.00	47.00	7.24	0.00	34.46	13	3	89	0	721	-673
16+72.00	22.00	0.00	0.00	0.00	3	0	14	0	739	-688
			NORTH APPROACH TOTALS		88	37	591			
PROJECT TOTALS		S	184	70	1,240					

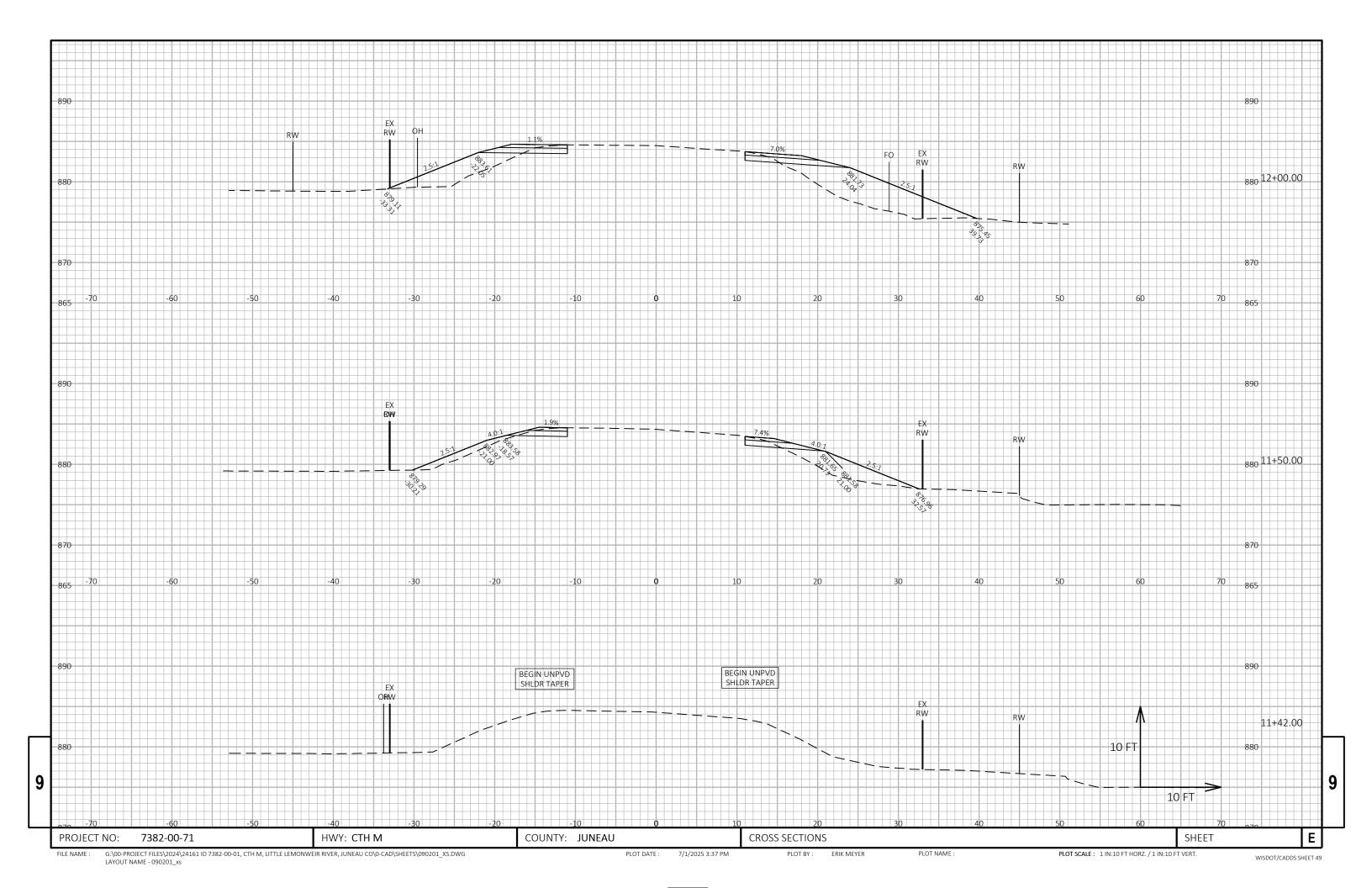
NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - MASS ORDINATE	CUT - SALVAGED PAVT - (FILL * FILL FACTOR)	
	PLUS QUANTITY INDICATES AN EXCESS MATERIAL WITHIN THE DIVISION. MINUS QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.	

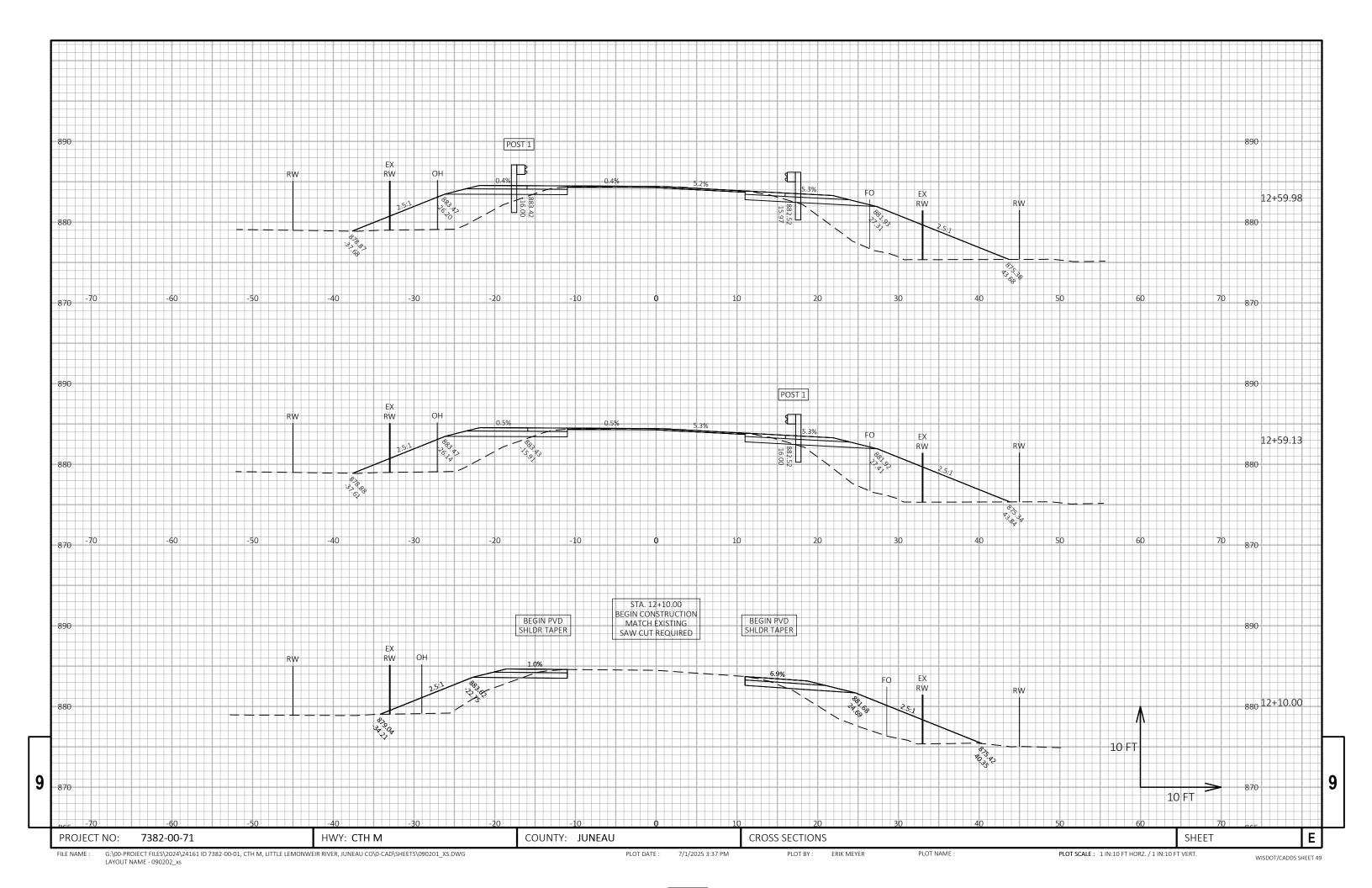
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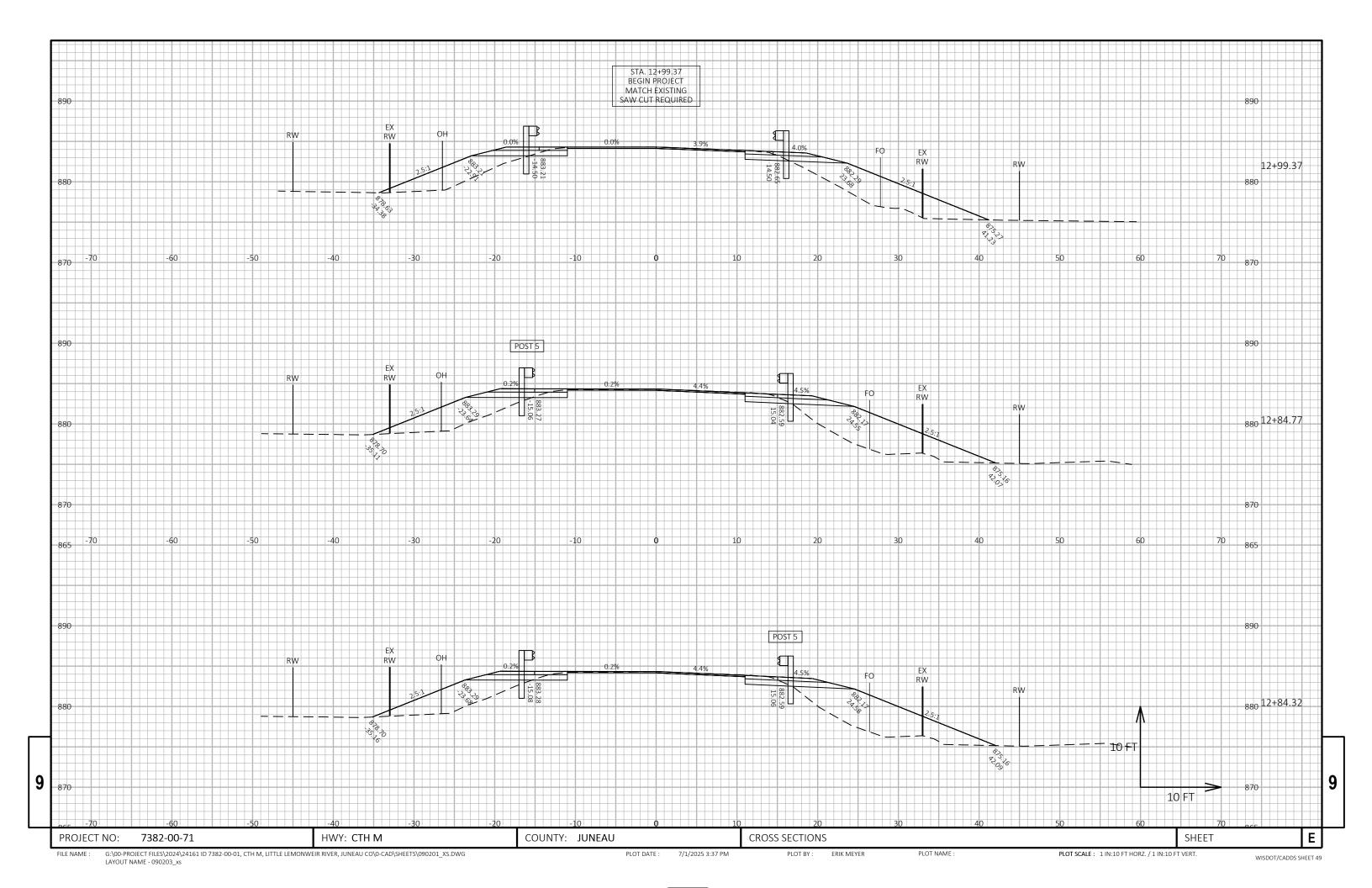
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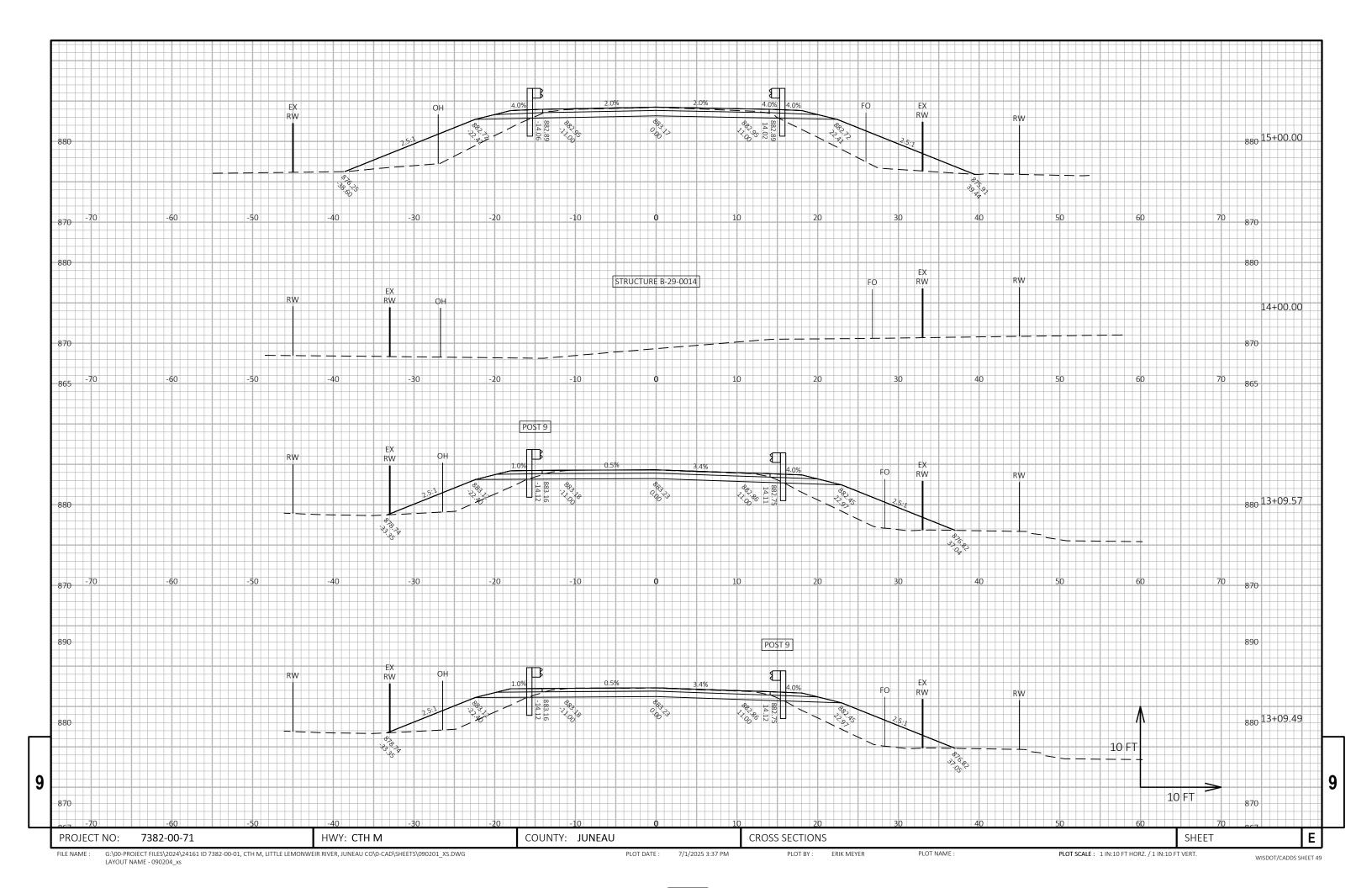
PROJECT NO: 7382-00-71 HWY: CTH M COUNTY: JUNEAU EARTHWORK DATA SHEET **E**

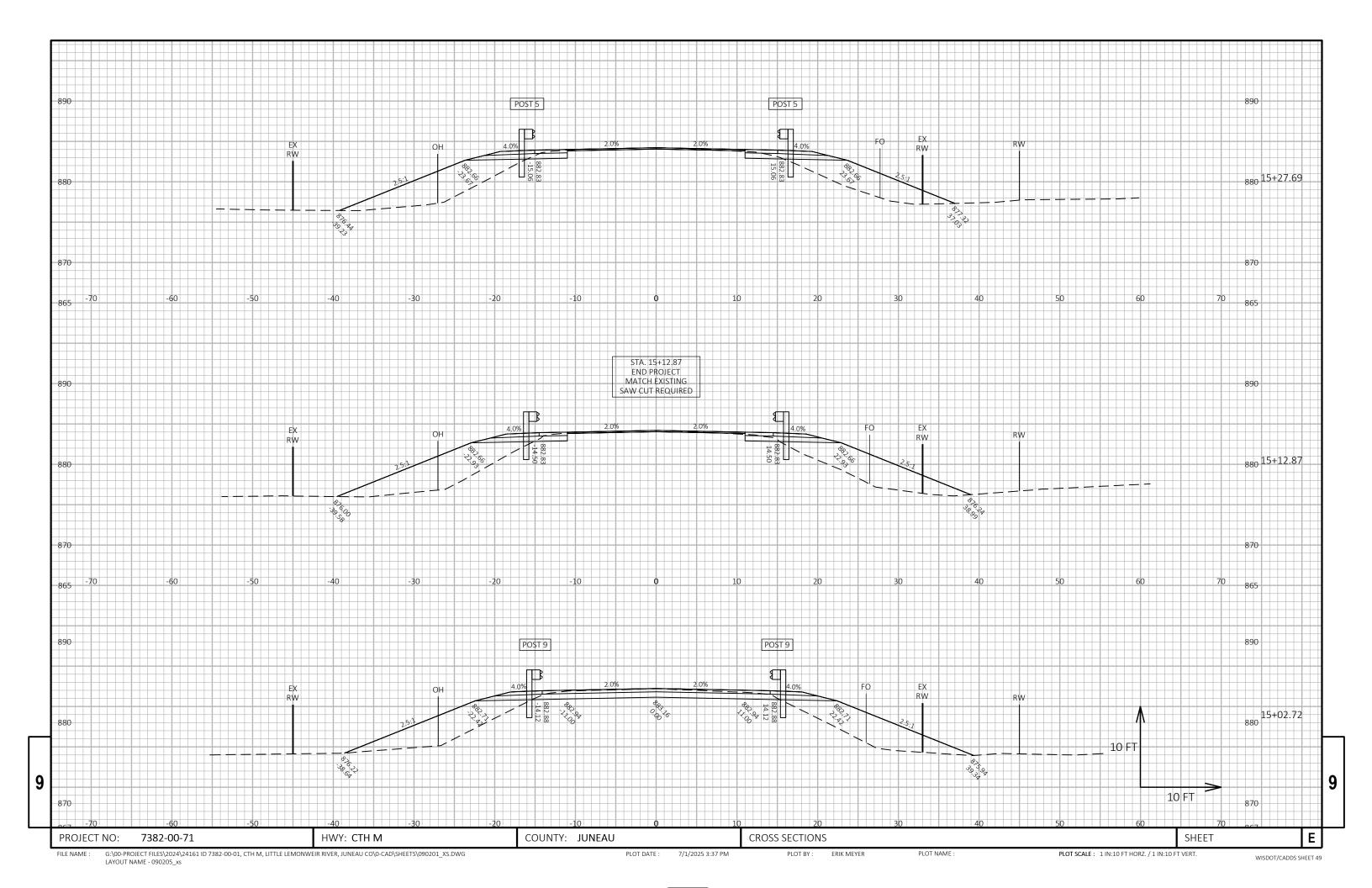
PLOT NAME :

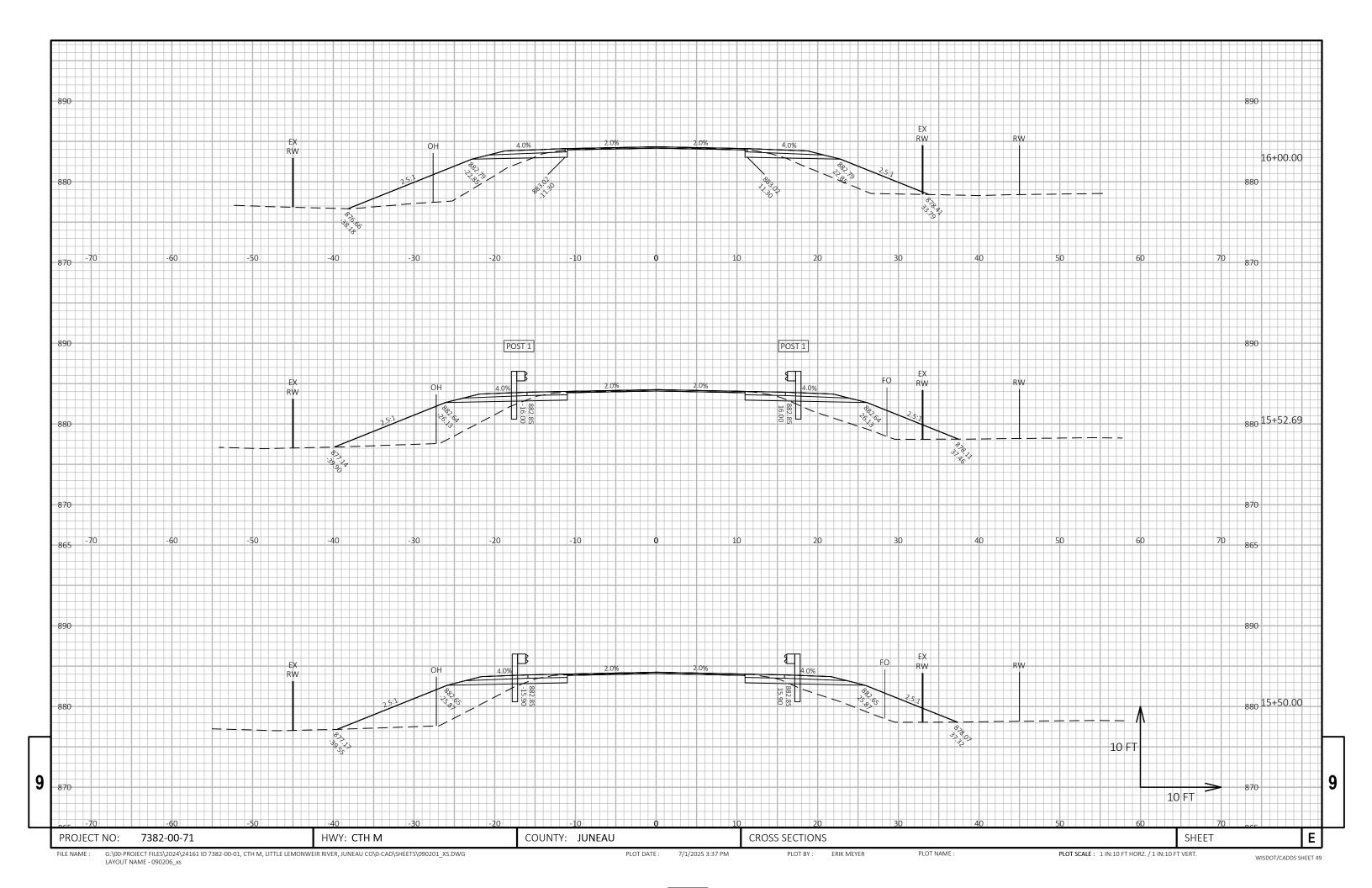


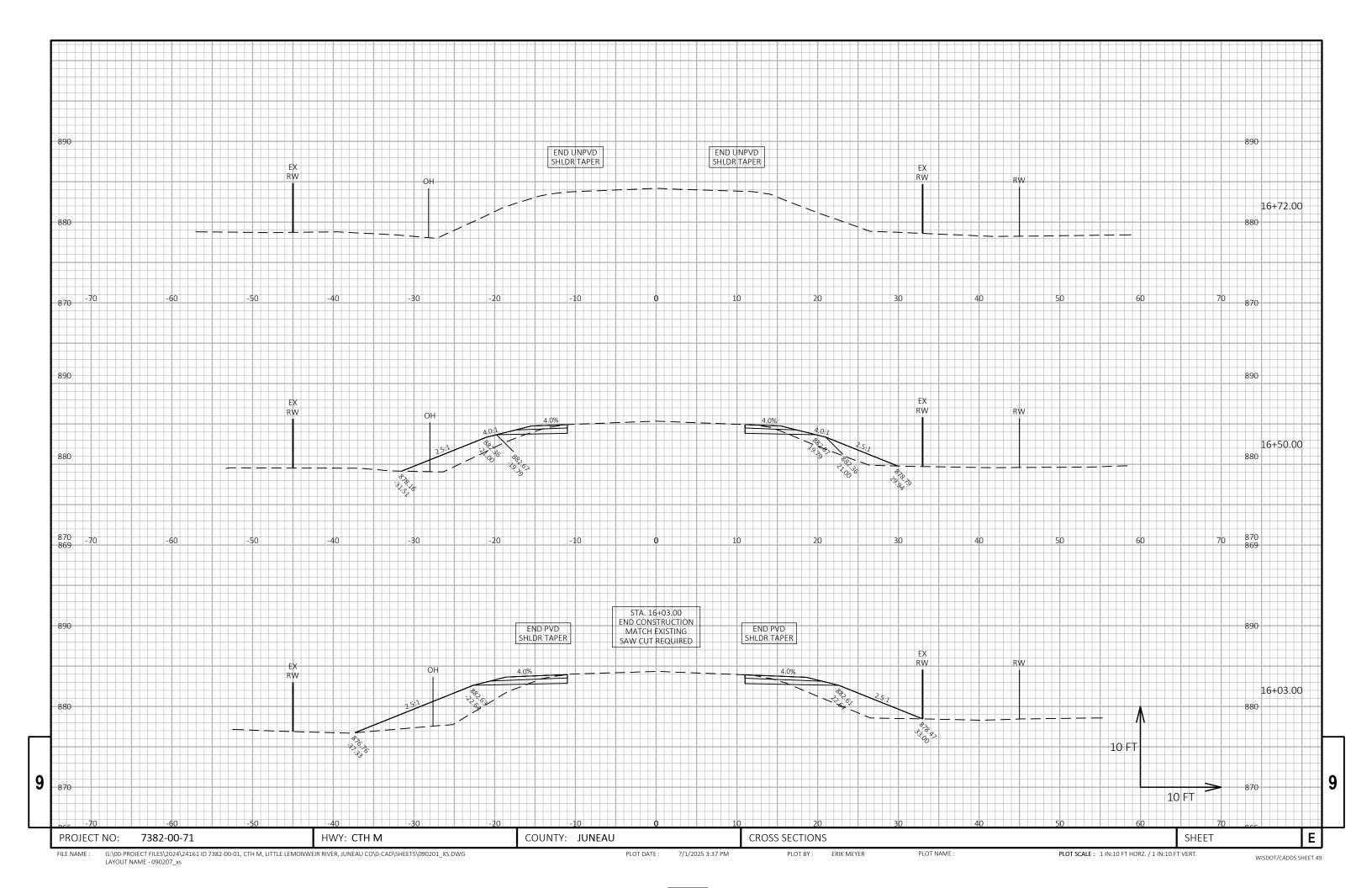


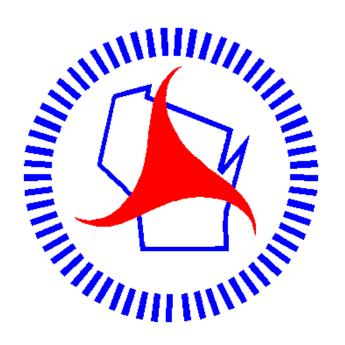












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