MAY 2023

Section No.

TOTAL SHEETS = 74

DESIGN DESIGNATION

(2023) = 700

= 755

= N/A

= 50/50

= 55 MPH = 168,235

(2043)

CONVENTIONAL SYMBOLS

AADT

A.A.D.T

D.H.V.

PLAN

CORPORATE LIMITS

LIMITED HIGHWAY EASEMENT

PROPOSED OR NEW R/W LINE

EXISTING RIGHT OF WAY

SLOPE INTERCEPT

REFERENCE LINE

EXISTING CULVERT

PROPOSED CULVERT

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

MARSH AREA

PROPERTY LINE

DESIGN SPEED

D.D.

ORDER OF SHEETS

Typical Sections and Details Estimate of Quantities Miscellaneous Quantities

Right of Way Plat

Structure Plans

Cross Sections

Computer Earthwork Data

PROJECT LOCATION

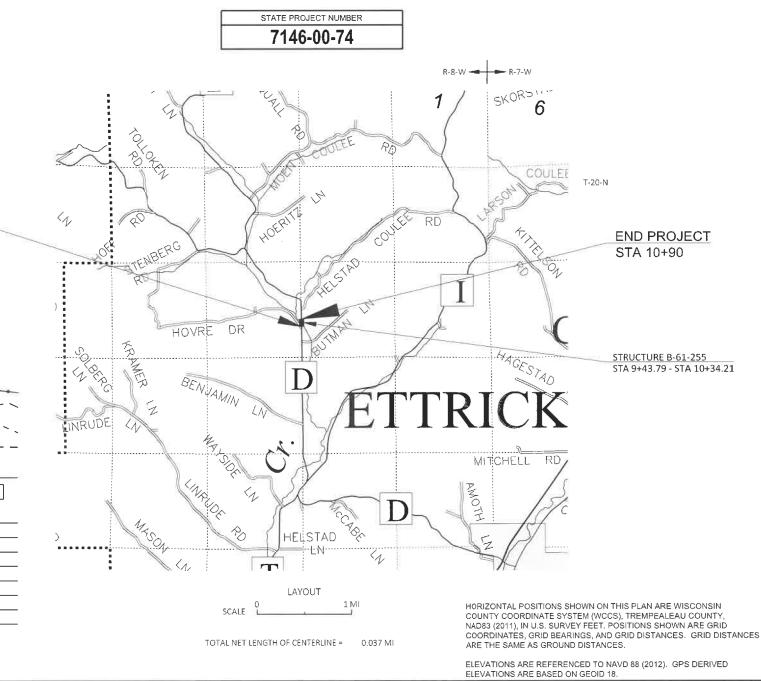
STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

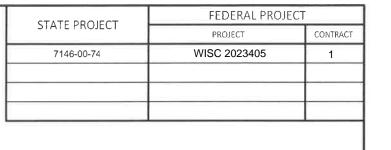
PLAN OF PROPOSED IMPROVEMENT

USH 53 - STH 95

FRENCH CREEK BRIDGE B-61-255

CTH D TREMPEALEAU COUNTY





ACCEPTED FOR TREMPEALEAU COUNTY

ORIGINAL PLANS PREPARED BY CORRE

ENGINEERING



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

REPARED BY CORRE INC CORRE INC Designer TYLER RONGSTAD Project Manager Regional Examiner TYLER RONGSTAD Regional Supervisor

APPROVED FOR THE DEPARTMENT

(Signature)

Ε

PROFILE

GRADE LINE

CRIGINAL GROUND

(To be noted as such) SPECIAL DITCH

GRADE ELEVATION

UTILITIES

ELECTRIC

CVERHEAD

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

STORM SEWER

TELEPHONE

WATER

CULVERT (Profile View)

MARSH OR ROCK PROFILE

BEGIN PROJECT

Y= 380784.281

X= 856892.389

STA 8+94

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GENERAL NOTES

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

THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH THE EXISTING UTILITY

D.O.T.BRIDGE BENCHMARK MONUMENT TO BE FURNISHED BY THE STATE AND PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

RIGHT OF WAY LINES SHOWN ON THE CROSS SECTIONS ARE APPROXIMATE.

THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT ASPHALTIC SURFACE LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING LANE.

ASPHALTIC SURFACE WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN

TACK COAT VOLUME CALCULATIONS ARE BASED ON 0.07 GAL/SY.

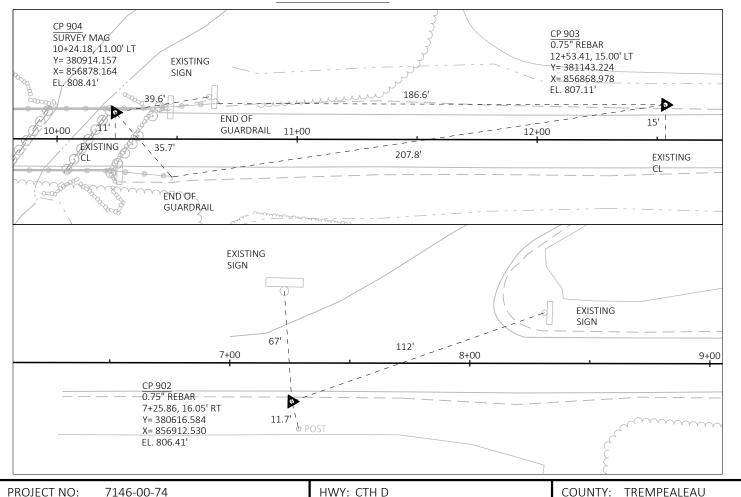
4.5-INCH ASPHALTIC SURFACE, SHALL BE CONSTRUCTED WITH 2.5-INCH UPPER LAYER AND 2-INCH LOWER LAYER.

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

THE QUANTITY OF THE ITEMS FOR EROSION PROTECTION INCLUDES AN UNDISTRIBUTED AMOUNT FOR PROTECTION, CONTROL AND ABATEMENT OF WATER POLLUTION RESULTING FROM SOIL EROSION. THE DISTRIBUTION AND LOCATION OF THESE MATERIALS ARE TO BE DETERMINED BY THE ENGINEER

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE TOPSOILED (SALVAGED), FERTILIZED, SEEDED, AND COVERED WITH EROSION MAT AS DIRECTED BY THE ENGINEER.

CONTROL POINT TIES



RUNOFF COEFFICIENT TABLE

						HYDROLOGIC SO	OIL GROUP							
			А		В			С			D			
	SLOP	E RANGE	(PERCENT)	s	LOPE RANG	GE (PERCENT)	SLO	OPE RANG	GE (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 .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	.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:				_							1	·		
ASPHALT						.7095								
CONCRETE						.8095								
BRICK						.7080			_					
DRIVES, WALKS			·			.7585				·				
ROOFS						.7595								
GRAVEL ROADS, SH	OULDERS	·		•		.4060		•		•	•			

TOTAL PROJECT AREA = 1.43 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.58 ACRES

DNR CONTACT

DEPARTMENT OF NATURAL RESOURCES DNR WEST CENTRAL REGION HQ 1300 WEST CLAIREMONT AVE EAU CLAIRE, WI 54701

ATTN: AMY LESIK TELEPHONE: (715) 495-1903 E-MAIL: AMYL.LESÍK@WISCONSIN.GOV

COUNTY CONTACT

TREMPEALEAU COUNTY HIGHWAY COMMISSIONER PO BOX 97 20699 STATE ROAD 121 WHITEHALL, WI 54773

ATTN: AL RINKA TELEPHONE: (715) 538-9402 E-MAIL: AL.RINKA@CO.TREMPEALEAU.WI.US

CONSULTANT CONTACT

CORRE, INC. 1802 WARDEN STREET EAU CLAIRE, WI 54703

ATTN: KEVIN MEYER, P.E. TELEPHONE: (715) 299-1894 E-MAIL: KMEYER@CORREINC.COM

UTILITY CONTACTS

BRIGHTSPEED 1905 WARD AVENUE LA CROSSE, WI 54601

ATTN: TOM MURRAY TELEPHONE: (608) 780-0895 E-MAIL: TOM.L.MURRAY@BRIGHTSPEED.COM

Dial or (800)242-8511

www.DiggersHotline.com

SHEET

 $\hbox{C:} OD\corre, In\c) Projects - Wi-NW REGION\cose2-D-06_TREMPEALEAU CO_CTH D OVER FRENCH CREEK\s00_CADD\s01_C3D_2020\cose2D06\streetsplan\scalebox(0.2010-0.0000) \\ \hbox{C:} OD\corresponds - CADD\scalebox(0.2010-0.0000) \\ \hbox{C:} OD\corresponds - CADD\scalebox(0.2010-0.0000) \\ \hbox{C:} OD\cose2D06\scalebox(0.2010-0.0000) \\ \hbox{C:} OD\c$

LAYOUT NAME - 020101-gn

GENERAL NOTES

3/13/2023 8:51 AM

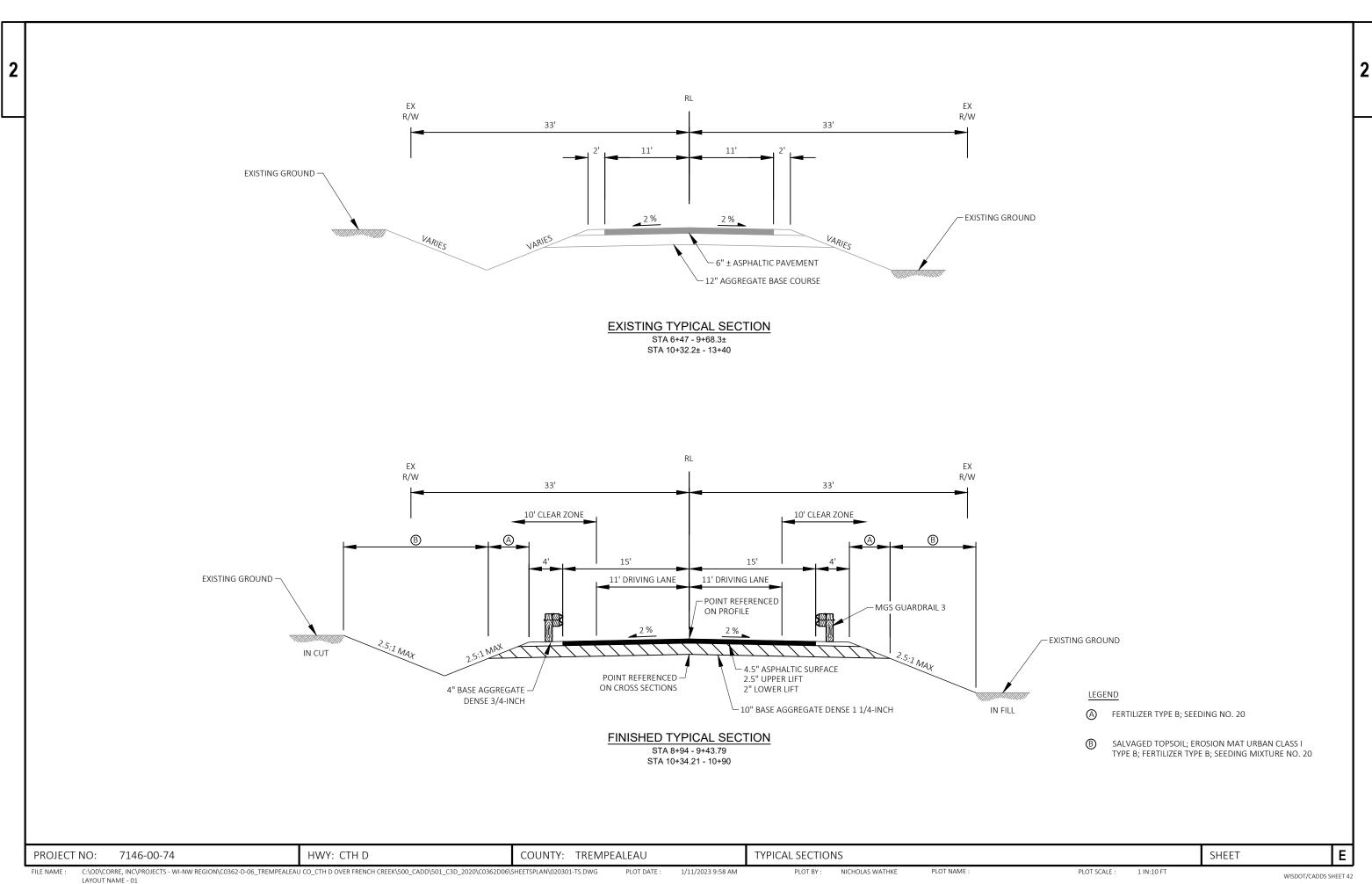
NICHOLAS WATHKE

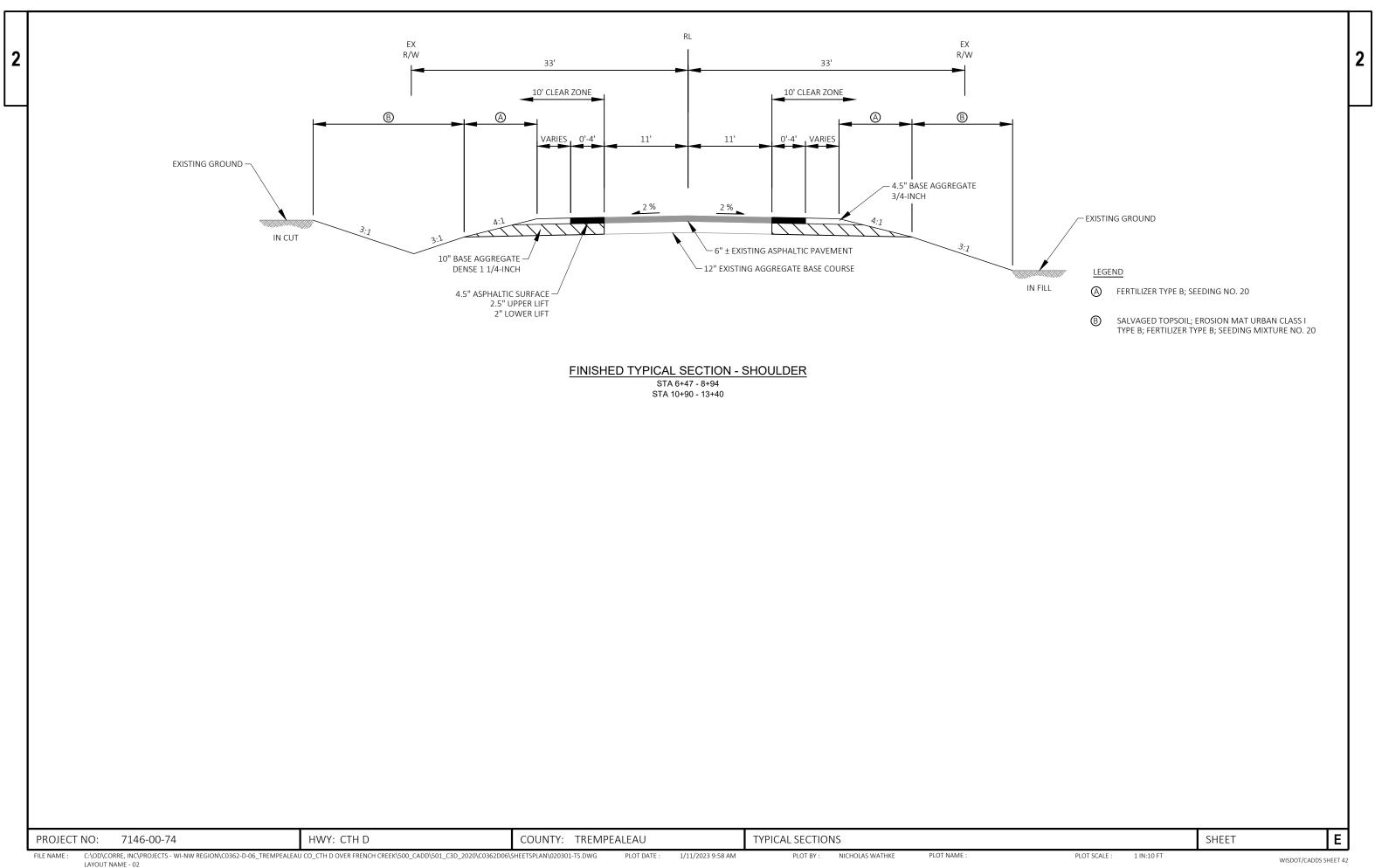
PLOT NAME

PLOT SCALE :

1 IN:1 F

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71	46-	00-7	74
, ,	40-	00-	<i>,</i> –

					/146-00-74	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0205	Grubbing	STA	4.000	4.000	
0004	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-61-74	EACH	1.000	1.000	
0006	204.0165	Removing Guardrail	LF	97.000	97.000	
8000	205.0100	Excavation Common	CY	361.000	361.000	
0010	206.1001	Excavation for Structures Bridges (structure) 01. B-61-255	EACH	1.000	1.000	
0012	208.0100	Borrow	CY	492.000	492.000	
0014	210.1500	Backfill Structure Type A	TON	380.000	380.000	
0016	213.0100	Finishing Roadway (project) 01. 7146-00-74	EACH	1.000	1.000	
0018	305.0110	Base Aggregate Dense 3/4-Inch	TON	170.000	170.000	
0020	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	680.000	680.000	
0022	415.0060	Concrete Pavement 6-Inch	SY	38.000	38.000	
0024	415.0410	Concrete Pavement Approach Slab	SY	104.000	104.000	
0026	455.0605	Tack Coat	GAL	28.000	28.000	
0028	465.0105	Asphaltic Surface	TON	110.000	110.000	
0030	502.0100	Concrete Masonry Bridges	CY	192.000	192.000	
0032	502.3200	Protective Surface Treatment	SY	390.000	390.000	
0034	503.0137	Prestressed Girder Type I 36W-Inch	LF	348.000	348.000	
0036	505.0400	Bar Steel Reinforcement HS Structures	LB	5,200.000	5,200.000	
0038	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	22,770.000	22,770.000	
0040	506.2605	Bearing Pads Elastomeric Non-Laminated	EACH	8.000	8.000	
0042	506.4000	Steel Diaphragms (structure) 01. B-61-255	EACH	6.000	6.000	
0044	513.4061	Railing Tubular Type M	LF	242.000	242.000	
0046	516.0500	Rubberized Membrane Waterproofing	SY	20.000	20.000	
0048	550.0500	Pile Points	EACH	22.000	22.000	
0050	550.2104	Piling CIP Concrete 10 3/4 X 0.25-Inch	LF	1,760.000	1,760.000	
0052	606.0300	Riprap Heavy	CY	205.000	205.000	
0054	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	180.000	180.000	
0056	614.2300	MGS Guardrail 3	LF	137.500	137.500	
0058	614.2500	MGS Thrie Beam Transition	LF	157.600	157.600	
0060	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000	
0062	618.0100	Maintenance And Repair of Haul Roads (project) 01. 7146-00-74	EACH	1.000	1.000	
0064	619.1000	Mobilization	EACH	1.000	1.000	
0066	624.0100	Water	MGAL	7.000	7.000	
0068	625.0500	Salvaged Topsoil	SY	1,370.000	1,370.000	
0070	628.1504	Silt Fence	LF	1,175.000	1,175.000	
0072	628.1520	Silt Fence Maintenance	LF	1,175.000	1,175.000	
0074		Mobilizations Erosion Control	EACH	5.000	5.000	
0076	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0078	628.2008	Erosion Mat Urban Class I Type B	SY	1,370.000	1,370.000	
0800	628.6005	Turbidity Barriers	SY	100.000	100.000	
0082	629.0210	Fertilizer Type B	CWT	1.040	1.040	
0084	630.0120	Seeding Mixture No. 20	LB	53.000	53.000	
0086	630.0200	Seeding Temporary	LB	53.000	53.000	
8800	630.0500	Seed Water	MGAL	38.000	38.000	
0090	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	4.000	4.000	
0092	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0094	638.2602	Removing Signs Type II	EACH	4.000	4.000	
0096	638.3000	Removing Small Sign Supports	EACH	4.000	4.000	
0098	642.5001	Field Office Type B	EACH	1.000	1.000	

71	16 0	0-74	
71	40-L	JU-74	

Line	Item	Item Description	Unit	Total	Qty
0100	643.0420	Traffic Control Barricades Type III	DAY	1,440.000	1,440.000
0102	643.0705	Traffic Control Warning Lights Type A	DAY	2,240.000	2,240.000
0104	643.0900	Traffic Control Signs	DAY	1,120.000	1,120.000
0106	643.5000	Traffic Control	EACH	1.000	1.000
0108	645.0111	Geotextile Type DF Schedule A	SY	84.000	84.000
0110	645.0120	Geotextile Type HR	SY	350.000	350.000
0112	646.1020	Marking Line Epoxy 4-Inch	LF	442.000	442.000
0114	650.4500	Construction Staking Subgrade	LF	96.000	96.000
0116	650.5000	Construction Staking Base	LF	96.000	96.000
0118	650.6501	Construction Staking Structure Layout (structure) 01. B-61-255	EACH	1.000	1.000
0120	650.9911	Construction Staking Supplemental Control (project) 01. 7146-00-74	EACH	1.000	1.000
0122	650.9920	Construction Staking Slope Stakes	LF	593.000	593.000
0124	690.0150	Sawing Asphalt	LF	480.000	480.000
0126	715.0502	Incentive Strength Concrete Structures	DOL	1,152.000	1,152.000
0128	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	500.000	500.000
0130	999.2005.S	Maintaining Bird Deterrent System (station) 01. 10+00	EACH	1.000	1.000
0132	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0134	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0136	SPV.0090	Special 01. Flashing Stainless Steel	LF	178.000	178.000
0138	SPV.0090	Special 02. Removing Existing Timber Piling	LF	200.000	200.000

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																305.0120	624.0100
						204.0165					305.0110					BASE	
						REMOVING					BASE					AGGREGATE	
			201.0205			GUARDRAIL					AGGREGATE					DENSE 1 1/4-	
			GRUBBING	STATION TO STATION	LOCATION	LF					DENSE 3/4-INCH					INCH	WATER
STATION TO	STATION	LOCATION	STA				STATION	TO STATI	ION	LOCATION	TON	REMARKS	STATION	TO STATIO	N LOCATION	TON	MGAL
				9+33 - 9+58	SOUTH APPROACH RT	25							'				
8+00 -	12+00	CTH D	4	9+52 - 9+76	SOUTH APPROACH LT	23	6+47	- 9+4	10	SOUTH APPROACH	70	SHOULDERS	6+47	- 9+40	SOUTH APPROACH	290	3
				10+23 - 10+47	NORTH APPROACH RT	24	10+33	- 13+	40	NORTH APPROACH	100	SHOULDERS	10+33	- 13+4	NORTH APPROACH	390	4
		TOTAL 0010	4	10+42 - 10+67	NORTH APPROACH LT	25											
										TOTAL 0010	170	•			TOTAL 0010	680	7
					TOTAL 0010	97											

CONCRETE PAVEMENT ITEMS ASPHALT ITEMS ASPHALT ITEMS

						ASFRALLIE	<u>1V13</u>								
		415.0060	415.0410										614.2300	614.2500	614.2610
		CONCRETE	CONCRETE				455.0605	465.0105						MGS THRIE	
		PAVEMENT 6-	PAVEMENT					ASPHALTIC					MGS GUARDRAIL	BEAM	MGS GUARDRAIL
		INCH	APPROACH SLAB				TACK COAT	SURFACE					3	TRANSITION	TERMINAL EAT
STATION TO STATION	LOCATION	SY	SY	STATION	TO STATION	LOCATION	GAL	TON	STATION	TO	STATION	LOCATION	LF	LF	EACH
9+23 - 9+44	SOUTH APPROACH	19	52	8+94	- 9+23	SOUTH APPROACH	13	50	7+94		9+24	SE QUADRANT	37.5	20.4	1
10+33 - 10+55	NORTH APPROACH	19	52	10+55	- 10+90	NORTH APPROACH	15	60	8+24	-		SW QUADRANT		39.4 39.4	1
									10+36	-	9+41 11+66	NE QUADRANT	25.0 37.5	39.4	1
	TOTAL 0010	38	104			TOTAL 0010	28	110	10+53	_	11+83	NW QUADRANT	37.5	39.4	1
									10.33		11.00	general	27.3	23.1	_
												TOTAL 0010	137.5	157.6	4

				.0100 EXCAVATION 1)	SALVAGED/UNUSABLE	AVAILABLE		EXPANDED FILL (5)		
DIVISION	FROM/TO STATION	LOCATION	CUT (2)	EBS EXCAVATION	PAVEMENT MATERIAL (3)	MATERIAL (4)	UNEXPANDED FILL	FACTOR 1.30	MASS ORDINATE +/- (6)	208.0100 BORROW
CTH D	6+47 TO 9+22 10+60 TO 13+55	SOUTH APPROACH NORTH APPROACH	105 256	EBS EXCAVATION	14 11	91 245	142 495	185 644	-94 -399	94 399
DIVISION 1 SUBTOTAL	•		361	0	25	336	637	828	-492	
GRAND TOTAL			361	0	25	336	637	828	-492	492
	TOTAL CO	OMMON EXC	3	861						

NOTE:

- (1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
- (2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- (3) SALVAGED/UNUSABLE PAVEMENT MATERIAL
- (4) AVAILABLE MATERIAL = CUT SALVAGED/UNUSUABLE PAVEMENT MATERIAL
- (5) EXPANDED FILL FACTOR = 1.25
- (6) THE MASS ORDINATE + OR QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
- (7) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

PROJECT NO: 7146-00-74 HWY: CTH D COUNTY: TREMPEALEAU	MISCELLANEOUS QUANTITIES SHEET E
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	LAND	SCAPING	ITEMS
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				625.0500	628.2008 EROSION MAT	629.0210	630.0120	630.0200	630.0500
				SALVAGED	URBAN CLASS I	FERTILIZER TYPE	SEEDING	SEEDING	
				TOPSOIL	TYPE B	В	MIXTURE NO. 20	TEMPORARY	SEED WATER
STATION	TO	STATION	LOCATION	SY	SY	CWT	LB	LB	MGAL
6+47	-	9+40	SOUTH APPROACH RT	250	250	0.22	10	10	8
8+16	-	9+40	SOUTH APPROACH LT	70	70	0.07	5	5	3
10+40	-	11+40	NORTH APPROACH RT	730	730	0.48	25	25	17
10+40	-	13+40	NORTH APPROACH LT	240	240	0.21	10	10	8
			UNDISTRIBUTED (25%)	80	80	0.06	3	3	2
			_						
			TOTAL 0010	1,370	1,370	1.04	53	53	38

EROSION CONTROL ITEMS

				628.1504	628.1520 SILT FENCE
				SILT FENCE	MAINTENANCE
STATION	TO	STATION	LOCATION	LF	LF
6+47	-	9+40	SOUTH APPROACH RT	310	310
8+16	-	9+40	SOUTH APPROACH LT	150	150
10+40	-	11+40	NORTH APPROACH RT	155	155
10+40	-	13+43	NORTH APPROACH LT	325	325
			UNDISTRIBUTED (25%)	235	235
			_		
			TOTAL 0010	1,175	1,175

SIGNING ITEMS

		628.6005 TURBIDITY		634.0614 POSTS WOOD 4X6-INCH X 14- FT	637.2230 SIGNS TYPE II REFLECTIVE F	
		BARRIERS	LOCATION	EACH	SF	REMARKS
STATION	LOCATION	SY				
9+40	SOUTH APPROACH	50	PROPOSED STRUCTURE B-61-291	1 4	12	PROPOSED BRIDGE HASH MARKS; W5-52L & W5-52R
10+40	NORTH APPROACH	50				
	-		TOTAL 0010	4	12	-
	TOTAL 0010	100				

EROSION CONTROL ITEMS (CONT'D)

	628.1905	628.1910
		MOBILIZATIONS
	MOBILIZATIONS	EMERGENCY
	EROSION	EROSION
	CONTROL	CONTROL
LOCATION	EACH	EACH
•		
PROJECT	5	2
TOTAL 0010	5	2

NOTE: PLACE BRIDGE HASH MARK SIGNS PER SDD "SIGNING AND MARKING FOR TWO LANE BRIDGES"

REMOVING SIGN ITEMS

LOCATION	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS	LOCATION	642.500 FIELD OFF TYPE B EACH
EXISTING STRUCTURE P-61-74	4	4	EXISTING BRIDGE HASH MARKS	PROJECT	1
TOTAL 0010	4	4		TOTAL 0010	1

TRAFFIC CONTROL ITEMS

		643.0420 TRAFFIC CONTROL	643.0705 TRAFFIC CONTROL	643.0900	643.5000
		BARRICADES	WARNING	TRAFFIC	TRAFFIC
		TYPE III	LIGHTS TYPE A	CONTROL SIGNS	CONTROL
LOCATIO	ON DURATION	DAY	DAY	DAY	EACH
PROJEC	T 80 DAYS	1,440	2,240	1,120	1
	TOTAL 0010	1,440	2,240	1,120	1

PROJECT NO:	7146-00-74	HWY: CTH D	COUNTY: TREMPEALEAU	MISCELLANEOUS QUANTITIES	SHEET	E
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CONSTRUCTION STAKING ITEMS

PAVEMENT MARKING

646.1020 MARKING LINE **EPOXY 4-INCH** STATION TO STATION LOCATION LF REMARKS 50 YELLOW CENTERLINE (SKIPS) CTH D 8+94 - 10+90 8+94 - 10+90 CTH D 392 WHITE EDGELINE TOTAL 0010 442

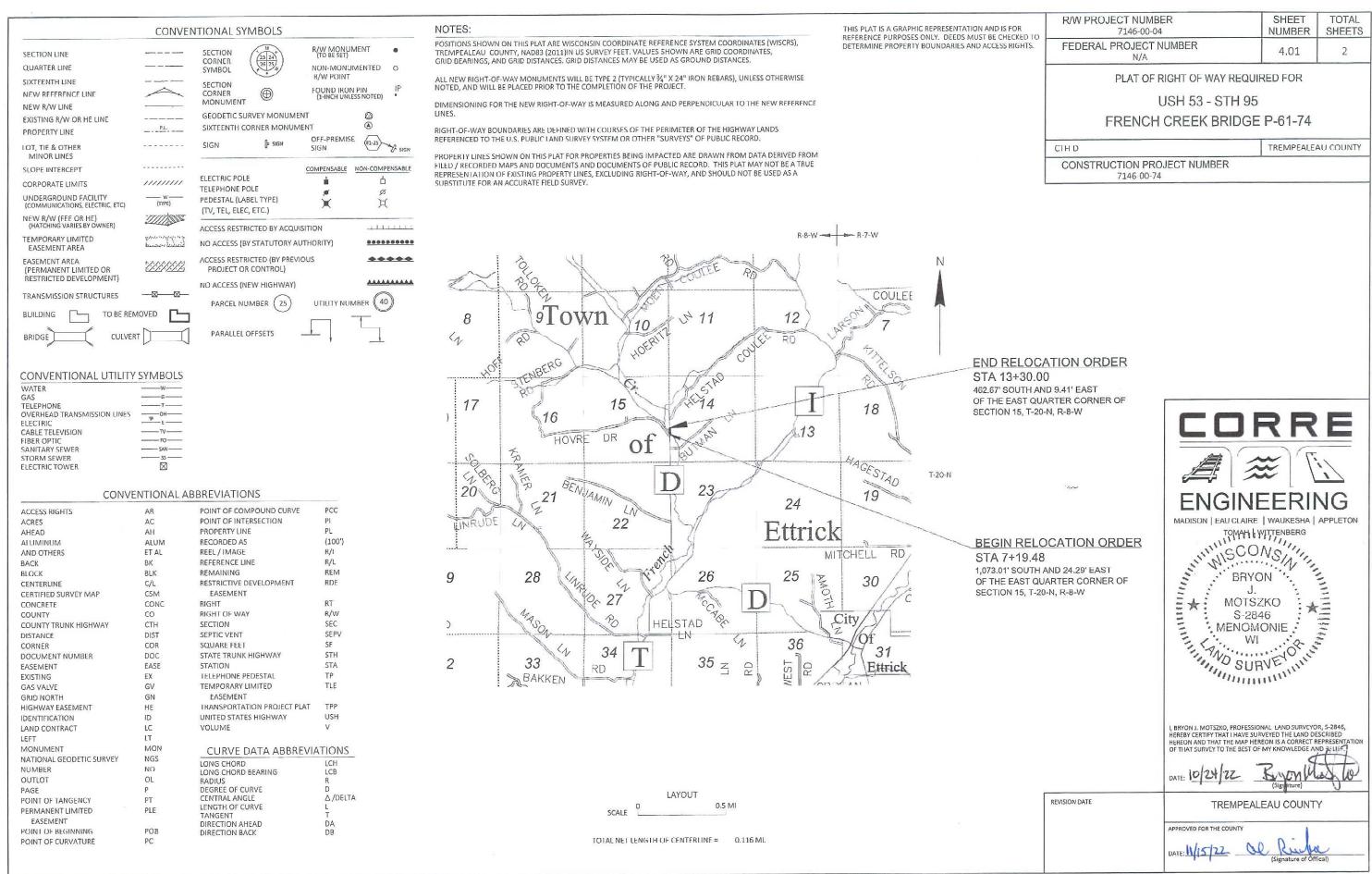
> 650.6501.01 CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) (01. B-61-255) LOCATION EACH B-61-255 1 TOTAL 0020

				650.4500	650.5000	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL	650.9920
				CONSTRUCTION		CONTROL	CONSTRUCTION
				STAKING	CONSTRUCTION	(PROJECT) (01.	STAKING SLOPE
				SUBGRADE	STAKING BASE	7146-00-74)	STAKES
STATION	TO	STATION	LOCATION	LF	LF	EACH	LF
6+47	-	8+94	SOUTH APPROACH				247
8+94	-	9+40	SOUTH APPROACH	46	46		46
10+40	-	10+90	NORTH APPROACH	50	50		50
10+90	-	13+40	NORTH APPROACH				250
			PROJECT			1	
			TOTAL 0010	96	96	1	593

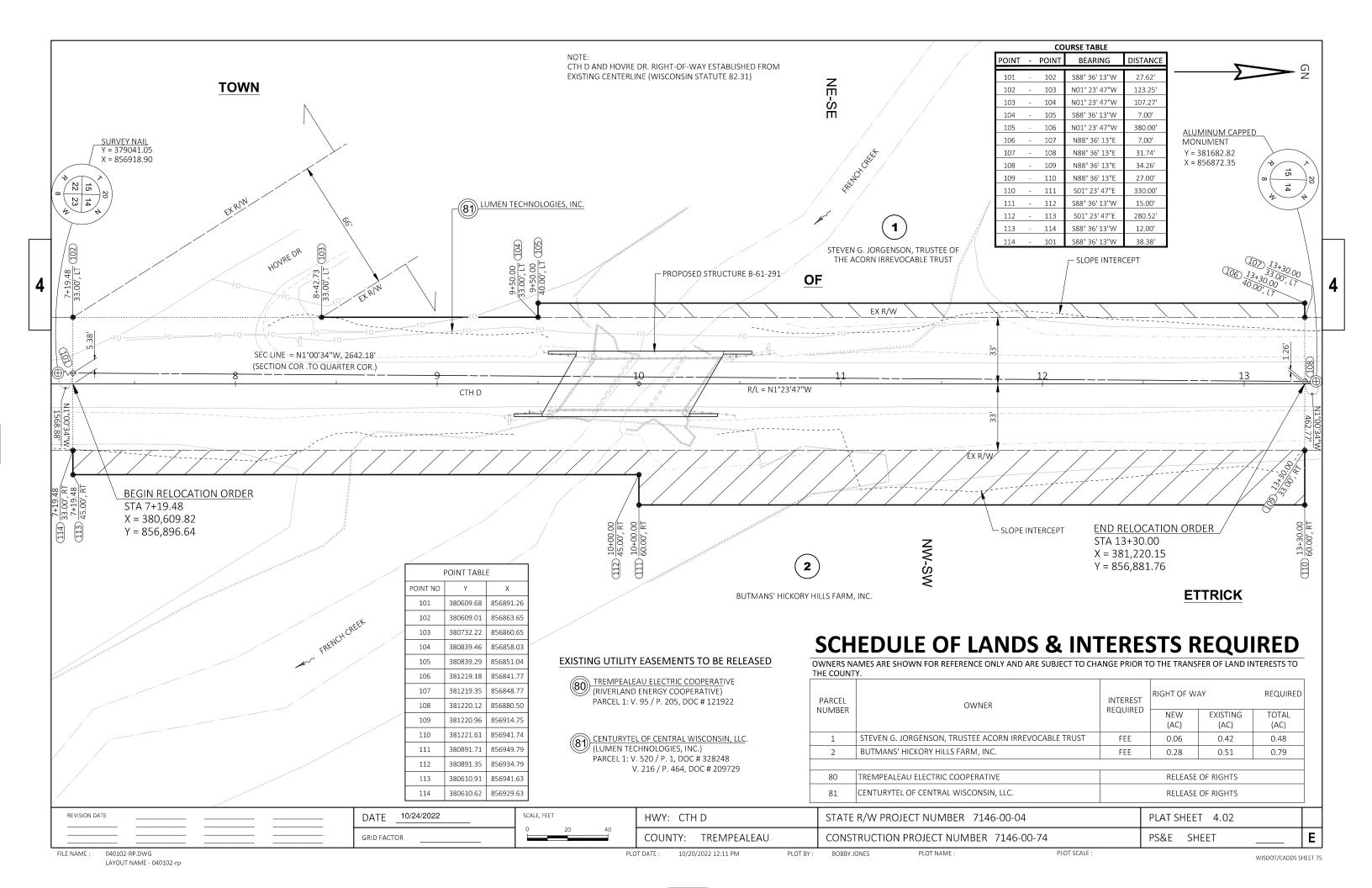
		690.0150 SAWING ASPHALT
STATION	LOCATION	LF
8+94 10+90	BEGIN PROJECT END PROJECT	215 265
	TOTAL 0010	480

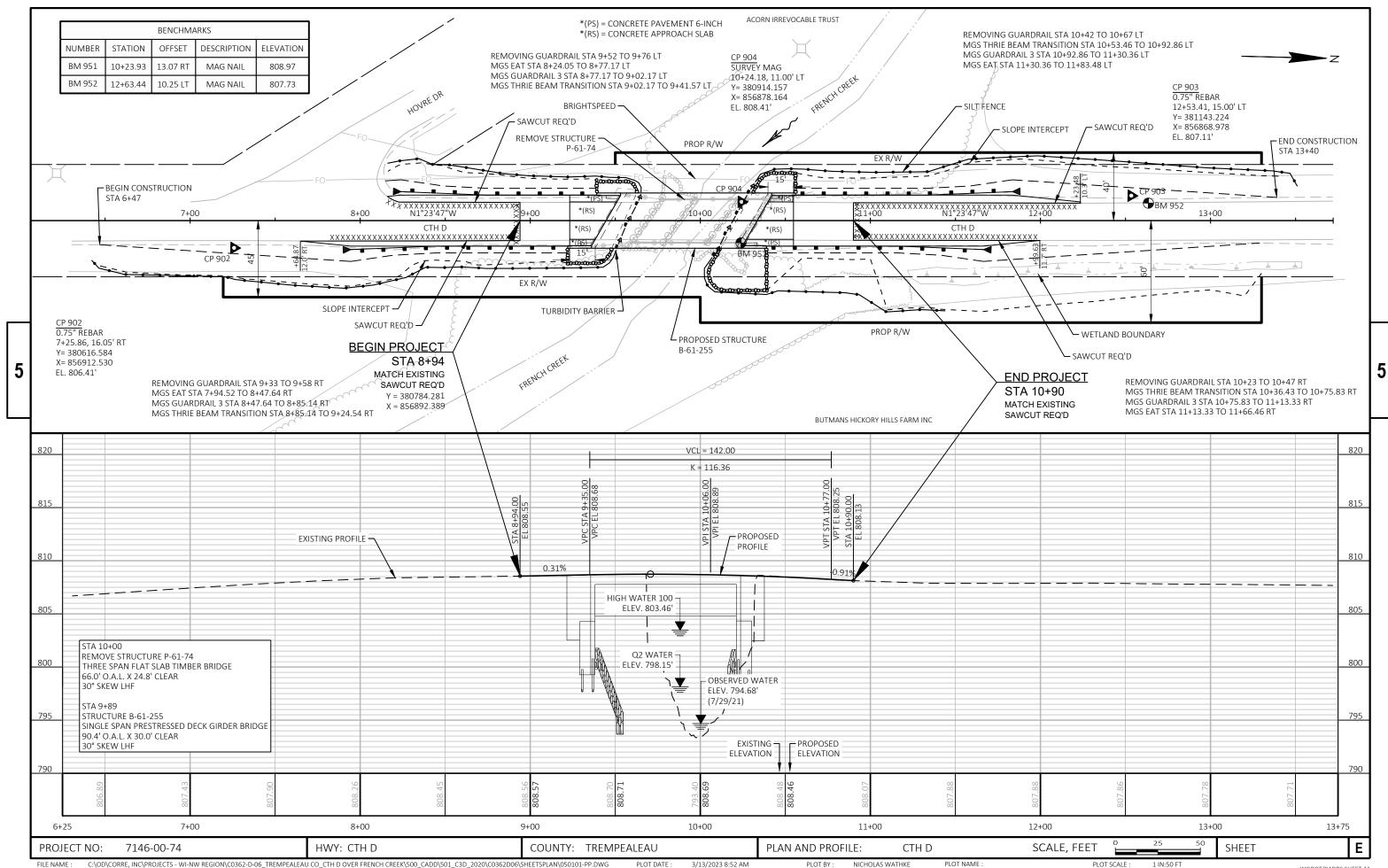
7146-00-74 HWY: CTH D SHEET Ε PROJECT NO: COUNTY: TREMPEALEAU MISCELLANEOUS QUANTITIES PLOT DATE: 1/12/2023

PLOT BY: CORRE, INC. PLOT NAME: PLOT SCALE 1:1



PLOT NAME :

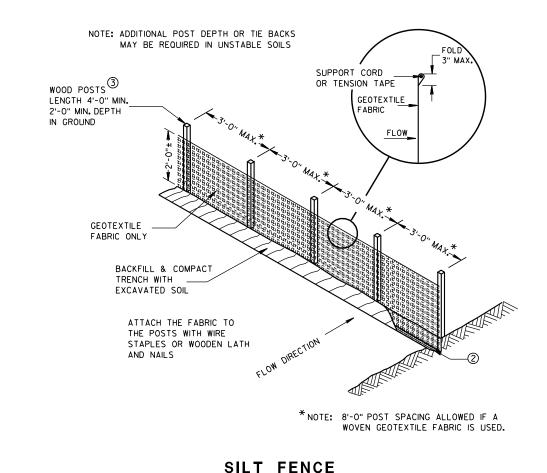


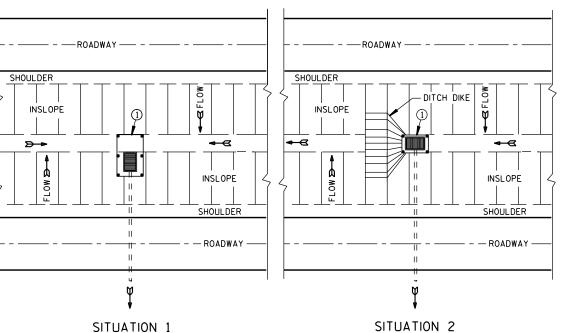


Standard Detail Drawing List

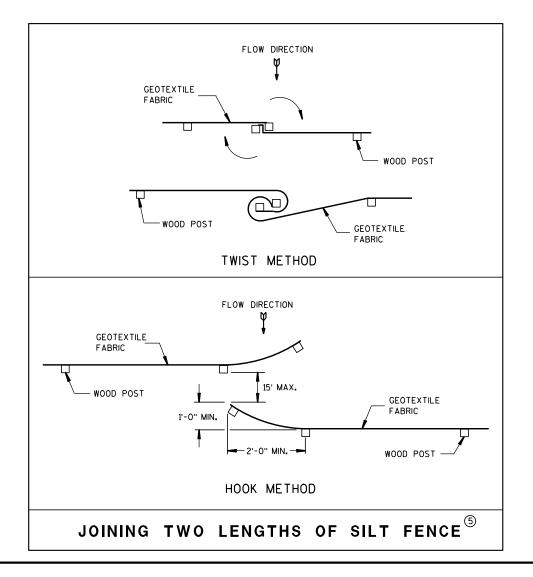
08E09-06 SILT FENCE 08E11-02 TURBIDITY BARRIER	
12A03-10 NAME PLATE (STRUCTURES)	
13B02-09A CONCRETE PAVEMENT APPROACH SLAB	
13CO1-19 CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES	
14B42-07A MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL	
14B42-07B MI DWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL	
14B42-07C MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL	
14B42-07D MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL	
14B44-04A MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINA	AL (MGS)
14B44-04B MI DWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINA	AL (MGS)
14B44-04C MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINA	AL (MGS)
14B45-05A MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (I	MGS)
14B45-05B MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (I 14B45-05C MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (I	MGS)
14B45-05C MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (I	MGS)
14B45-05D MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSFITON (1	MGS)
14B45-05E MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05F MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (I	MGS)
14B45-05G MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (I	MGS)
14B45-05H MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (I	MGS)
14B45-05I MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (I	MGS)
14B45-05J MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (I	MGS)
14B45-05K MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (I	MGS)
14B45-05L MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (I	MGS)
15CO2-08A BARRICADES AND SIGNS FOR MAINLINE CLOSURES	
15CO2-O8B BARRI CADES AND SIGNS FOR VARIOUS CLOSURES	
15CO6-10 SIGNING & MARKING FOR TWO LANE BRIDGES	

TYPICAL APPLICATION OF SILT FENCE





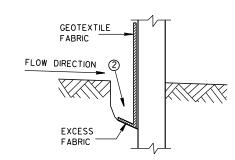
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



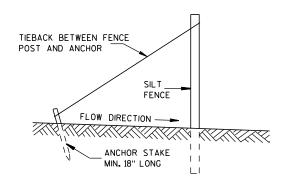
GENERAL NOTES

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

- ① 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

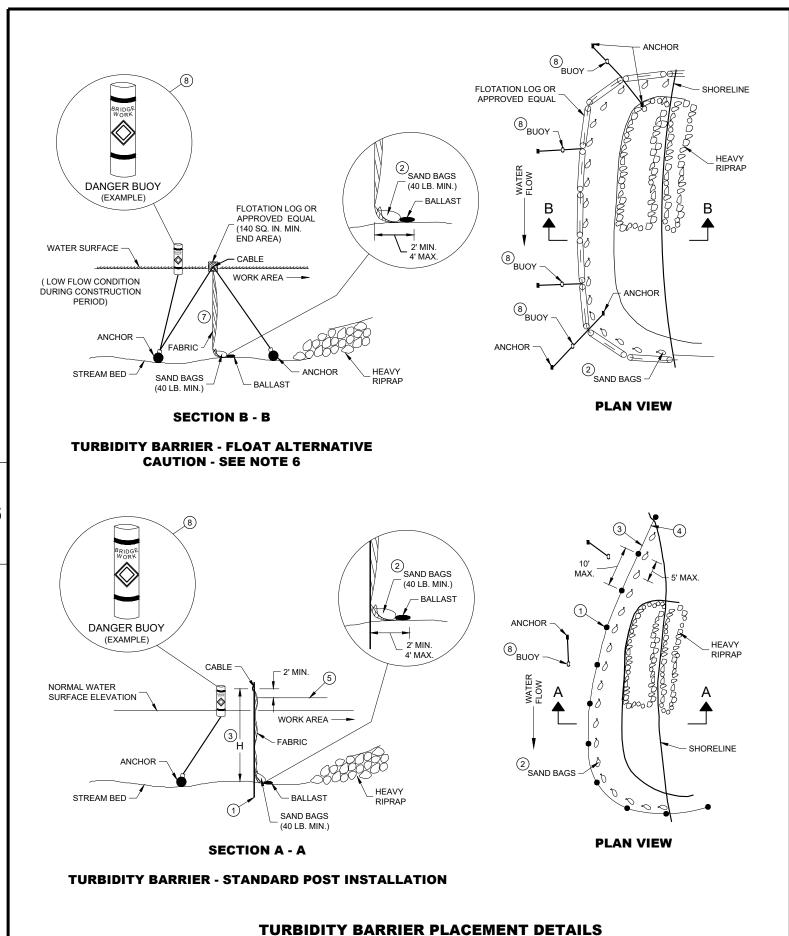


SILT FENCE TIE BACK (WHEN REQUIRED BY THE ENGINEER)

SILT FENCE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION APPROVED 4-29-05 /S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

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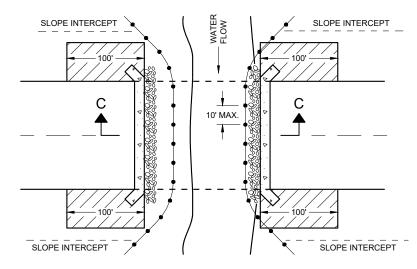


GENERAL NOTES

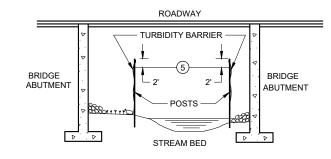
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

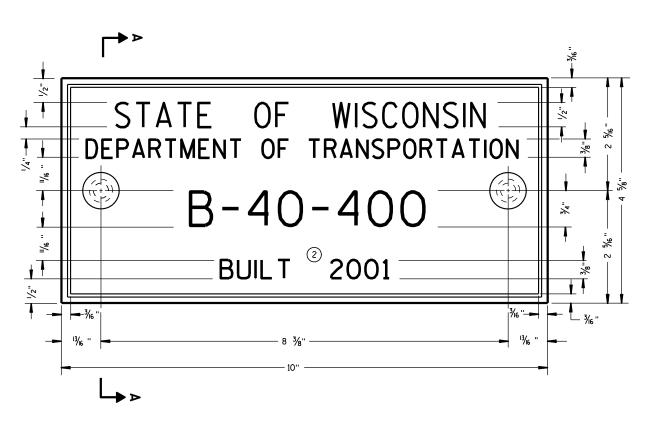
TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

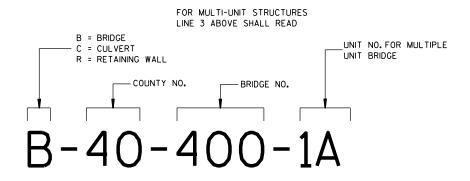
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TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



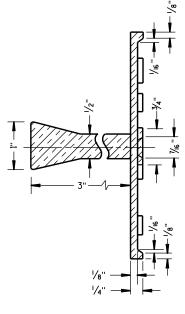
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

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.

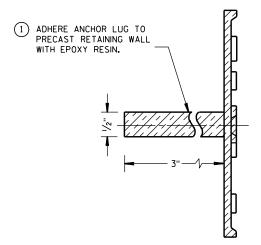
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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)

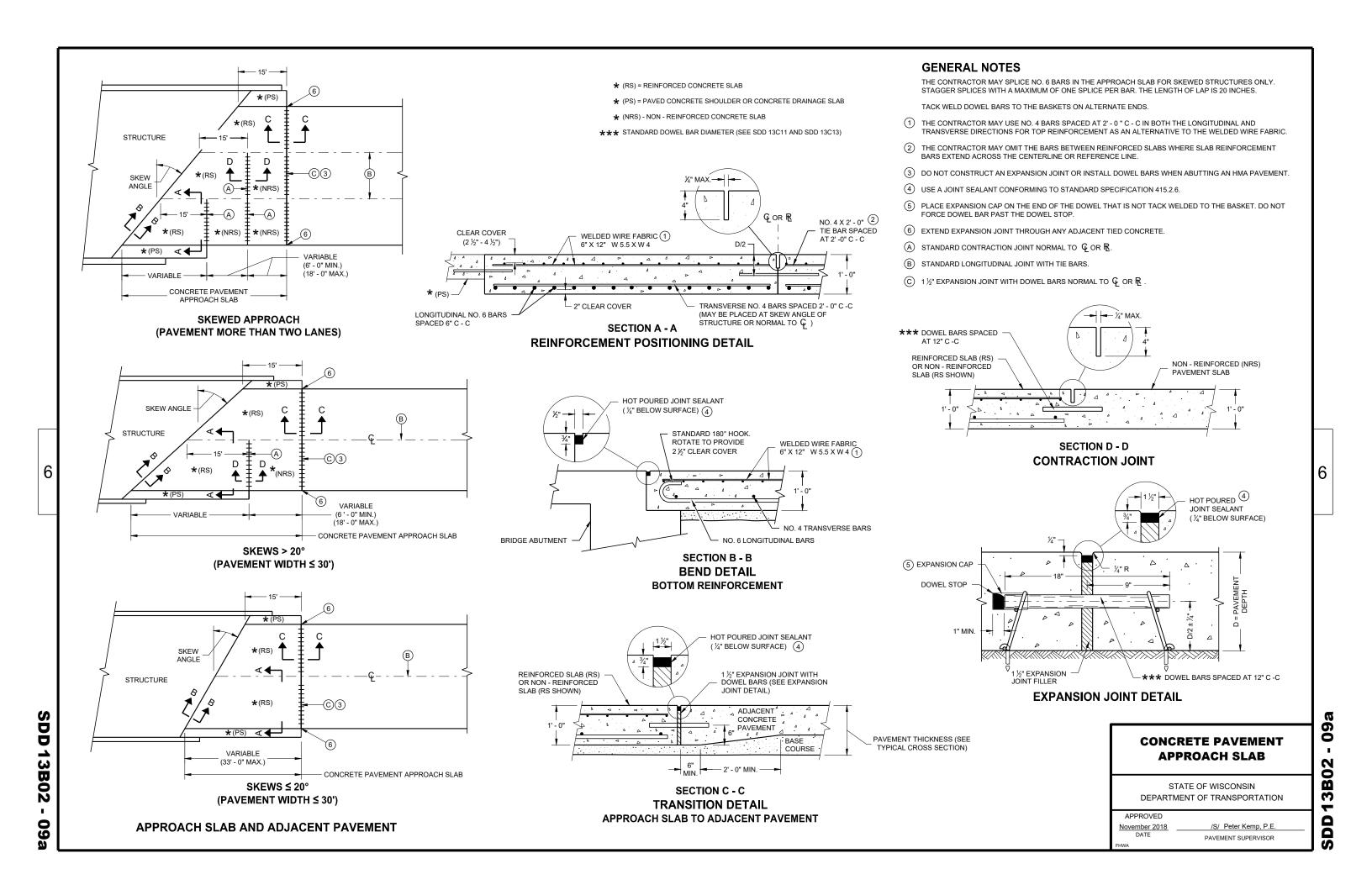
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

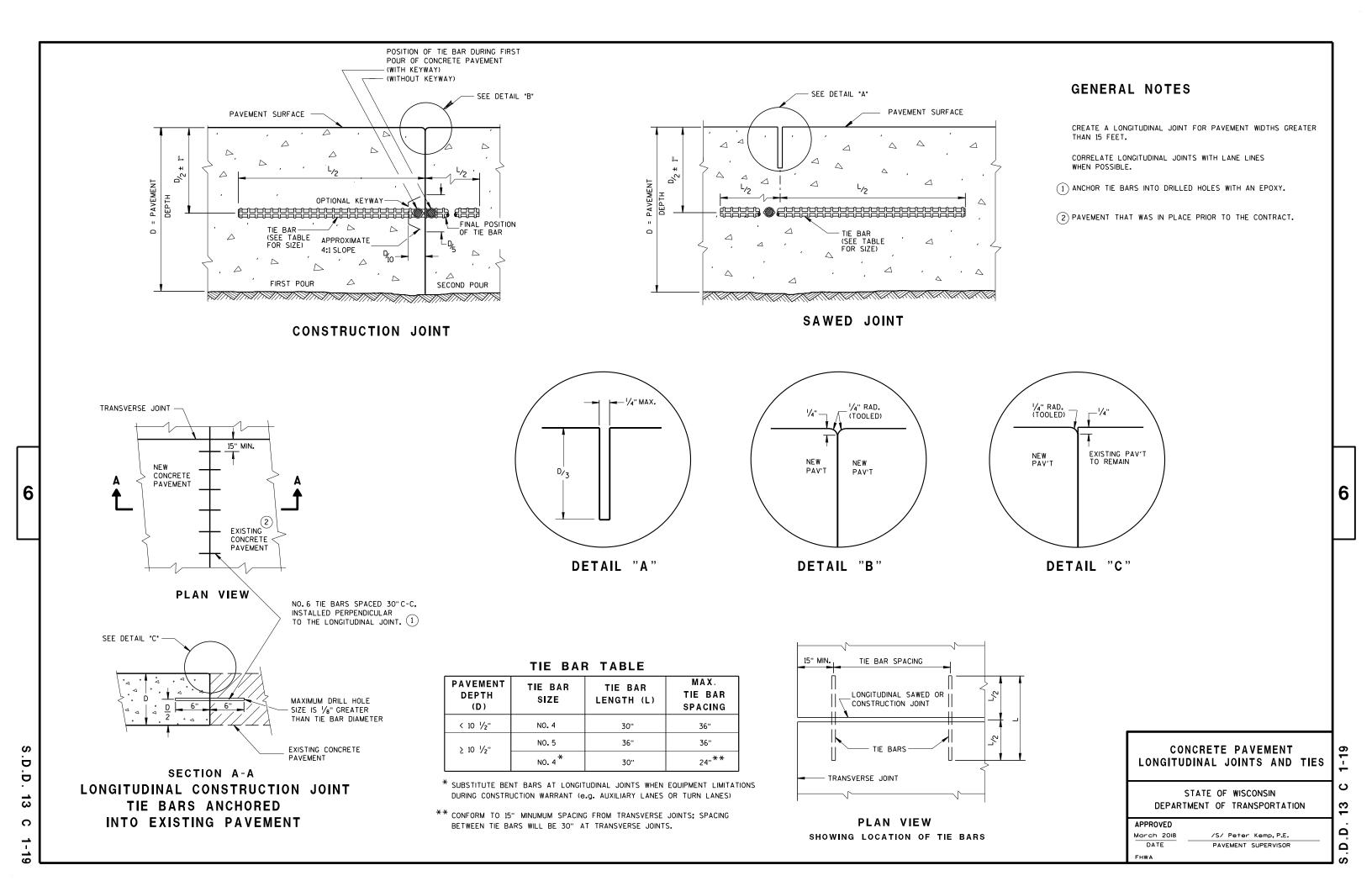
3-10

APPROVED

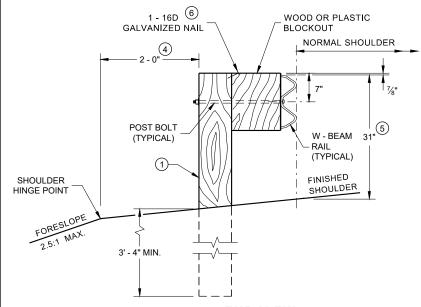
3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER

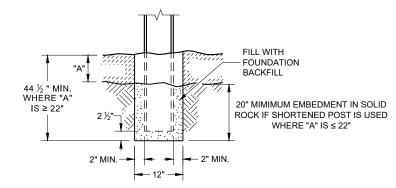




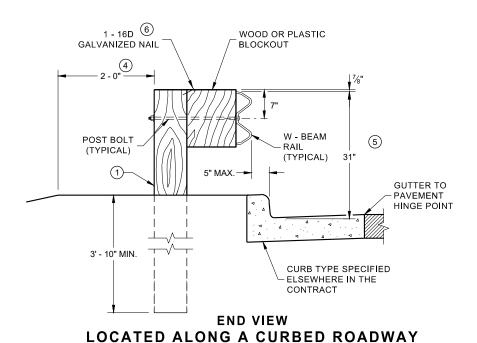
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES 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).
- $\fill \ensuremath{5}$ 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".

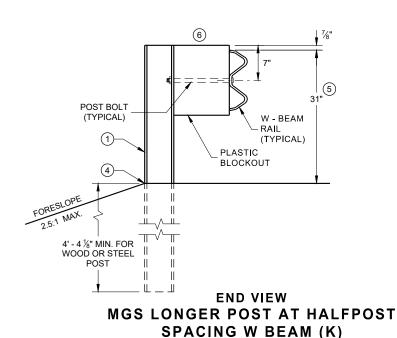


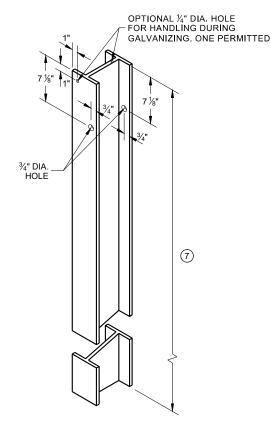
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



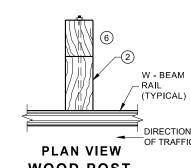
SETTING STEEL OR WOOD POST IN ROCK



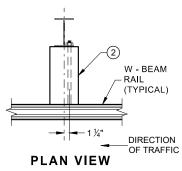




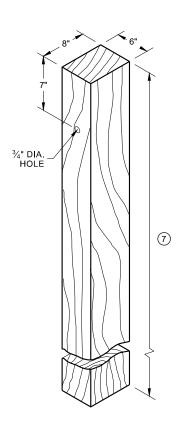
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



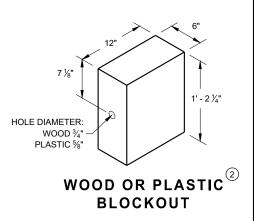
PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

SDD 14B42 - 0

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

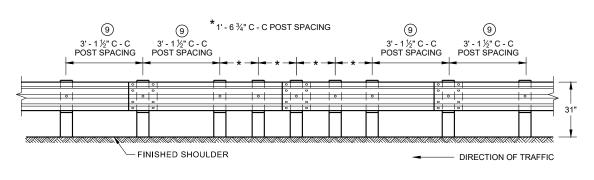
POST SPACING

DIRECTION OF TRAFFIC

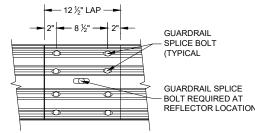
6' - 3" C -C

POST SPACING

FINISHED SHOULDER



FRONT VIEW **QUARTER POST SPACING (QS)**



FRONT VIEW MID-SPAN BEAM SPLICE

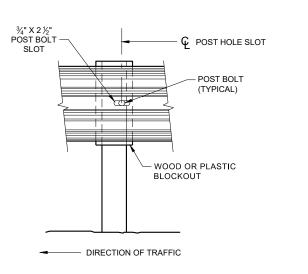
REFLECTOR LOCATIONS

GENERAL NOTES

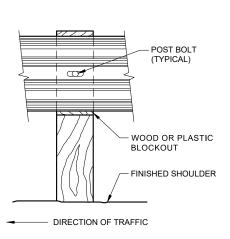
- DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- (9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

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

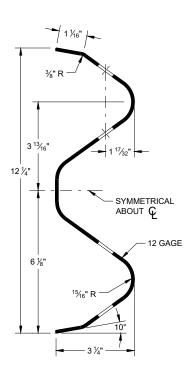
GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



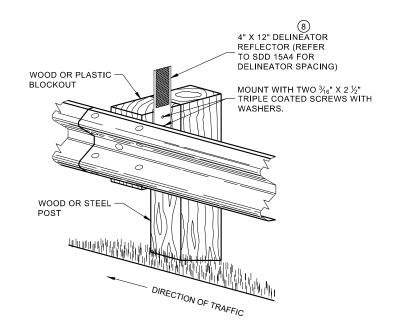
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



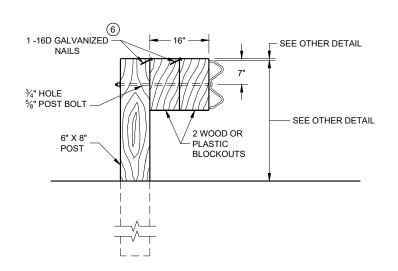
ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

07b

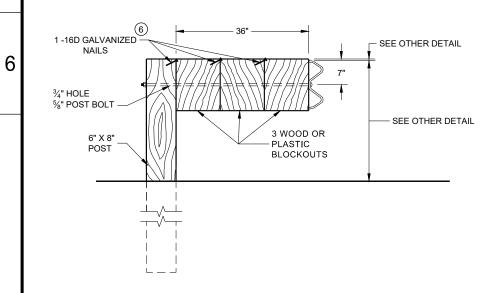
SDD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



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.



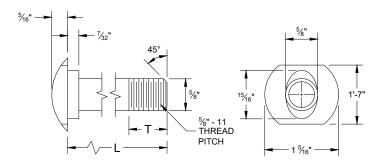
DETAIL FOR 36" BLOCKOUT DEPTH

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.

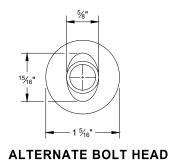
NOTE:

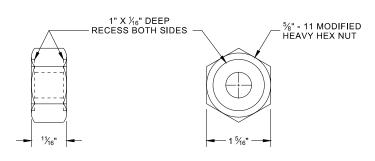
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



POST BOLT TABLE

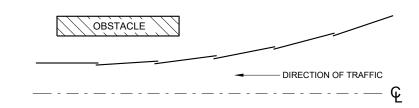
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



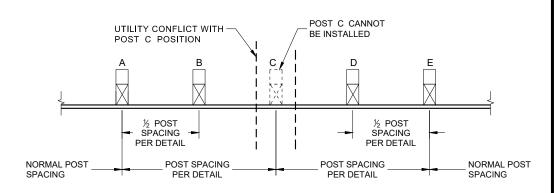


POST BOLT, SPLICE BOLT **AND RECESS NUT**

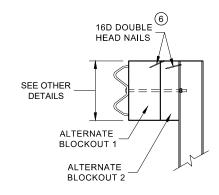
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D (6) GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

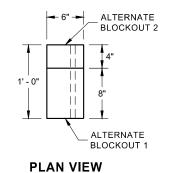


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

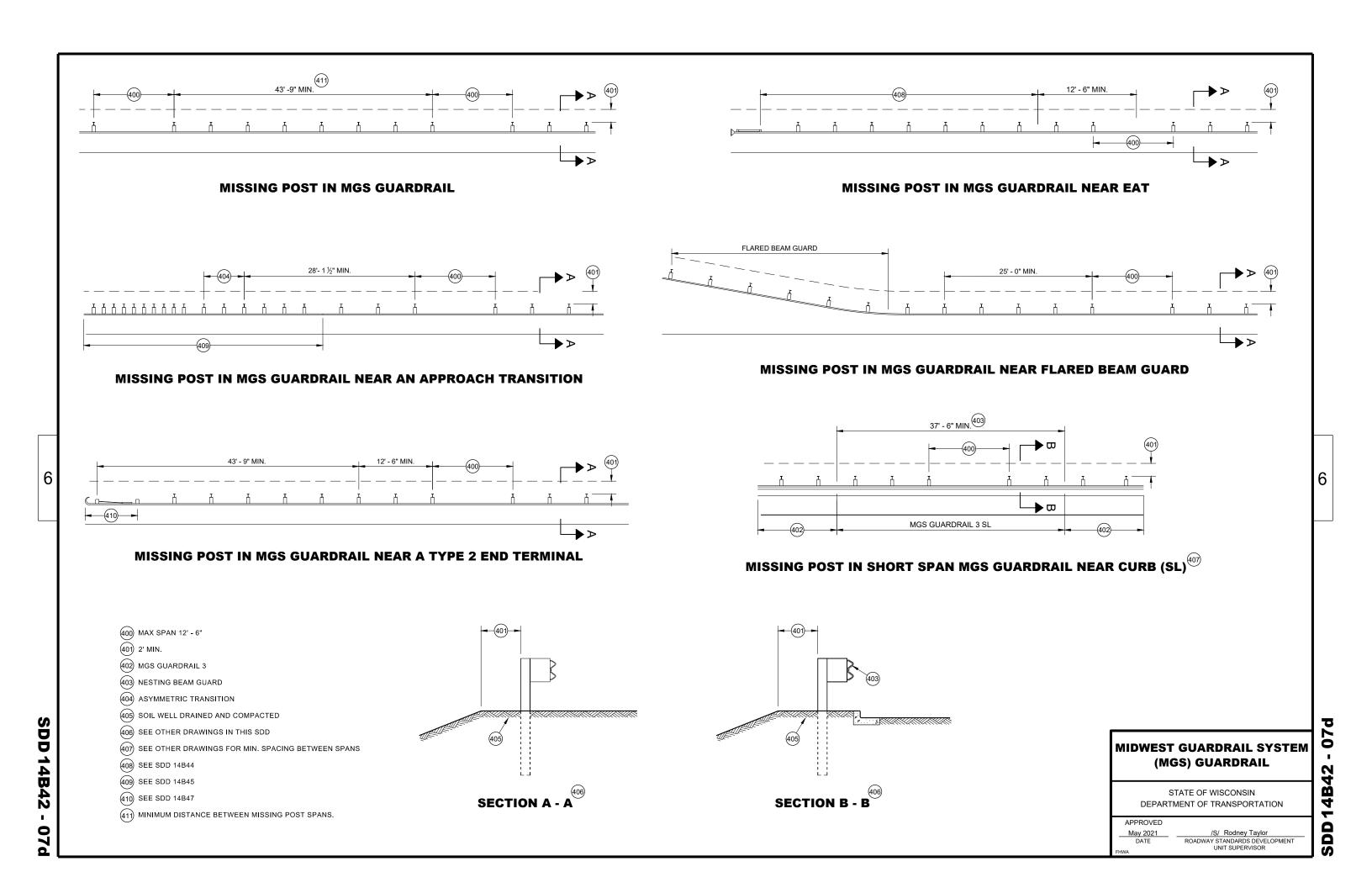
ALTERNATE WOOD BLOCKOUT DETAIL

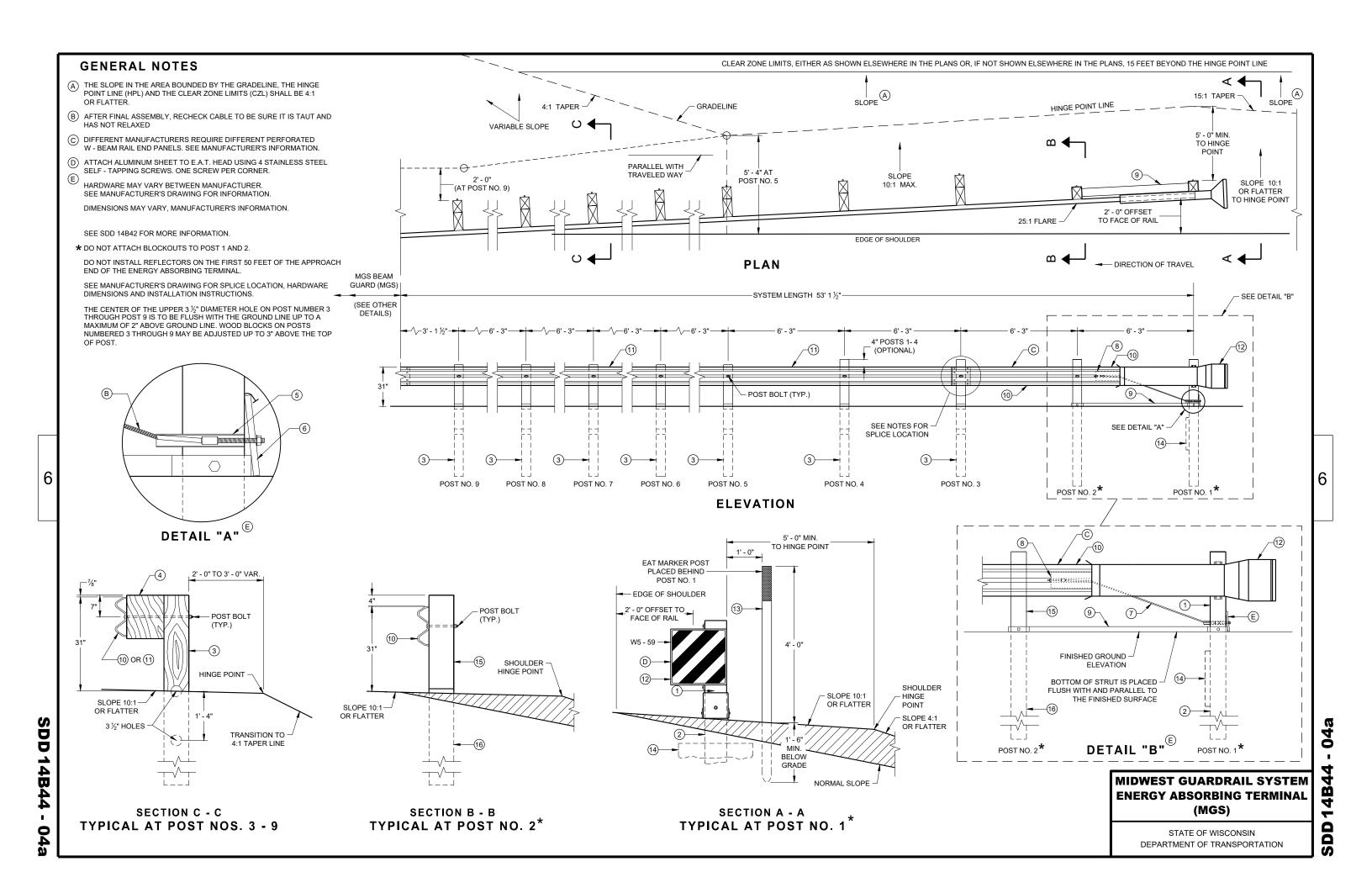
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

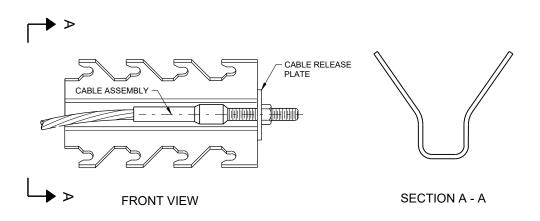
07

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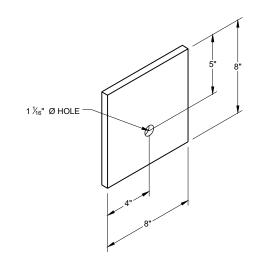
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION







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



BEARING PLATE

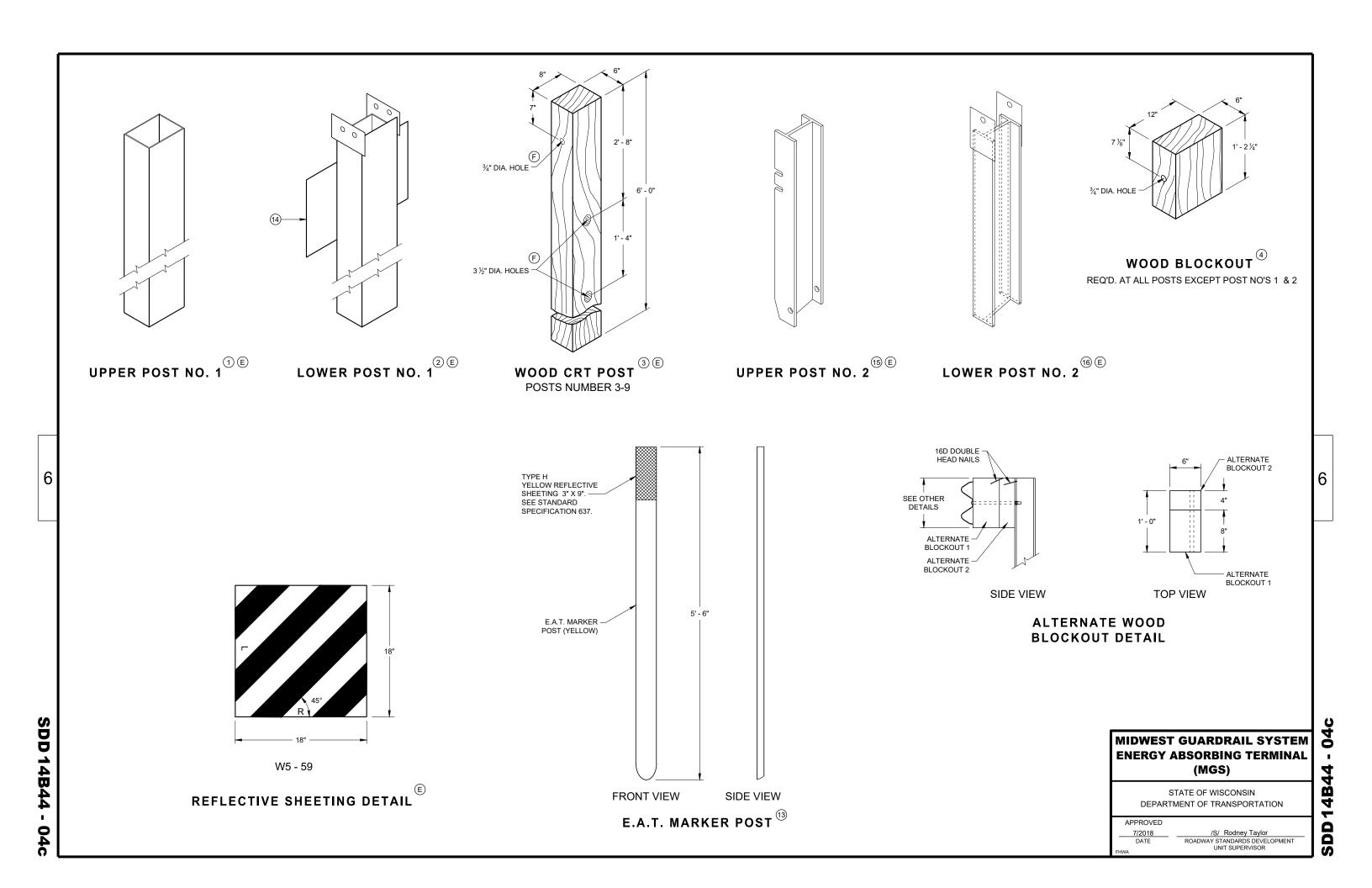
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

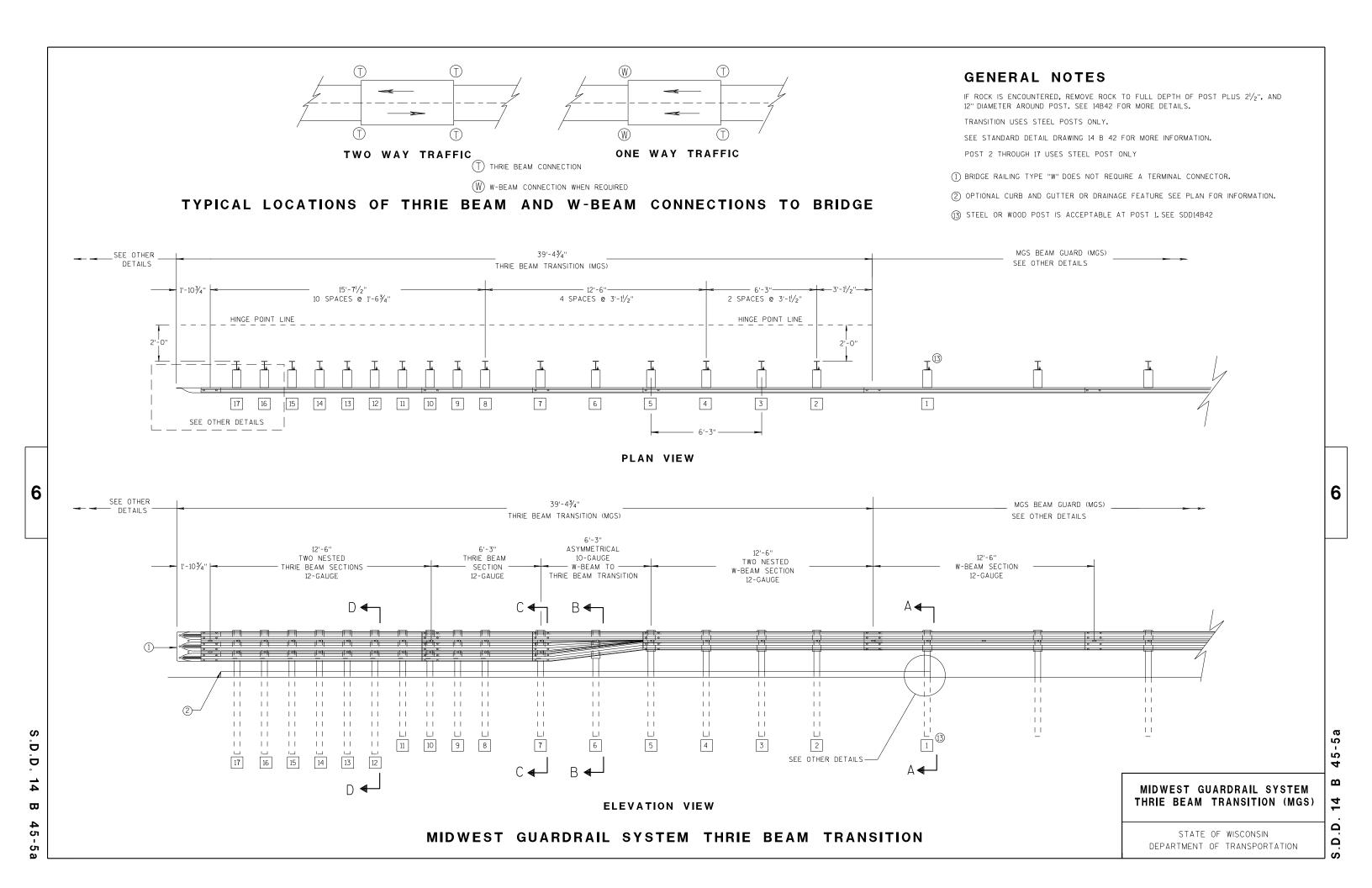
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

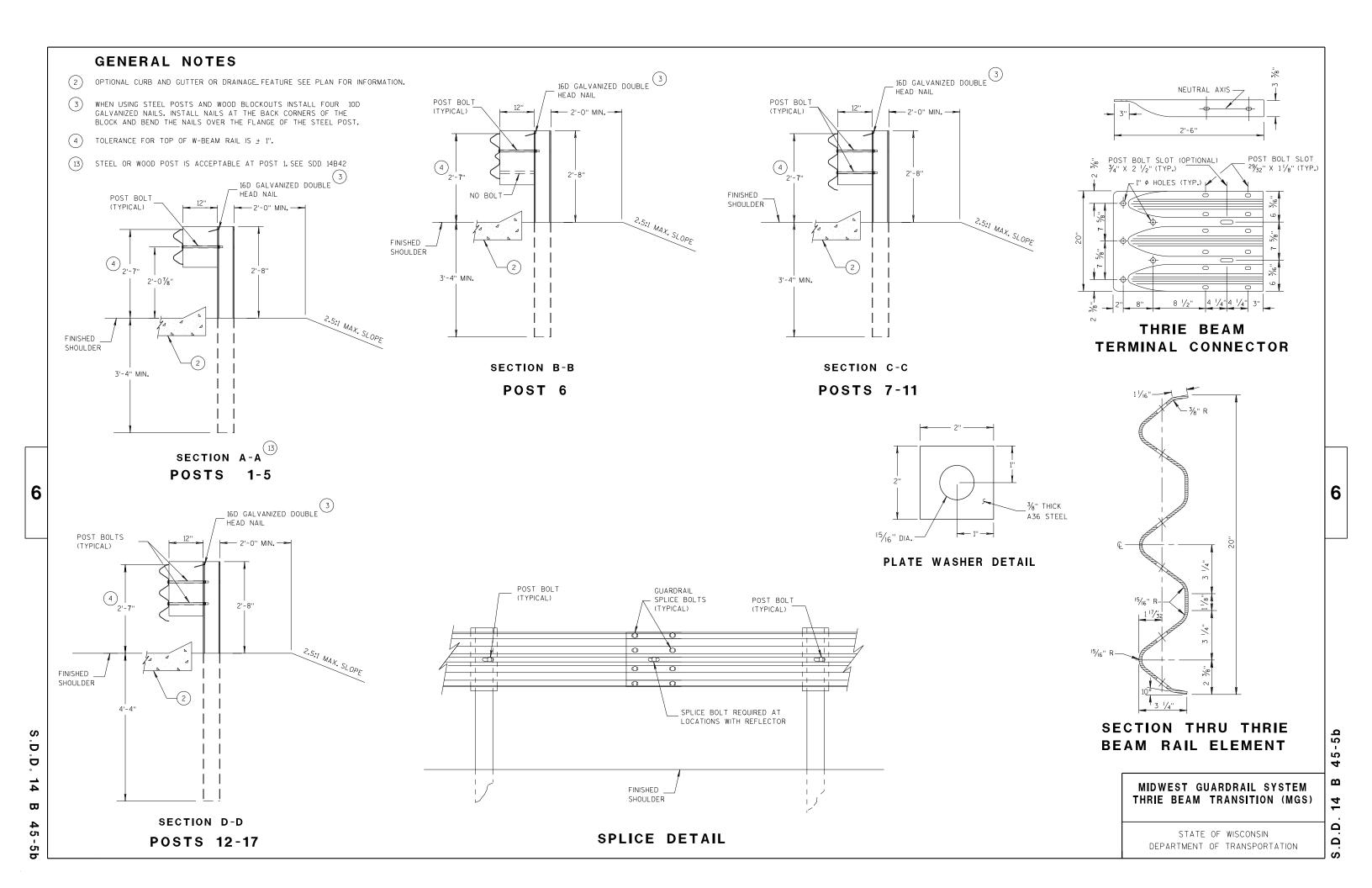
6

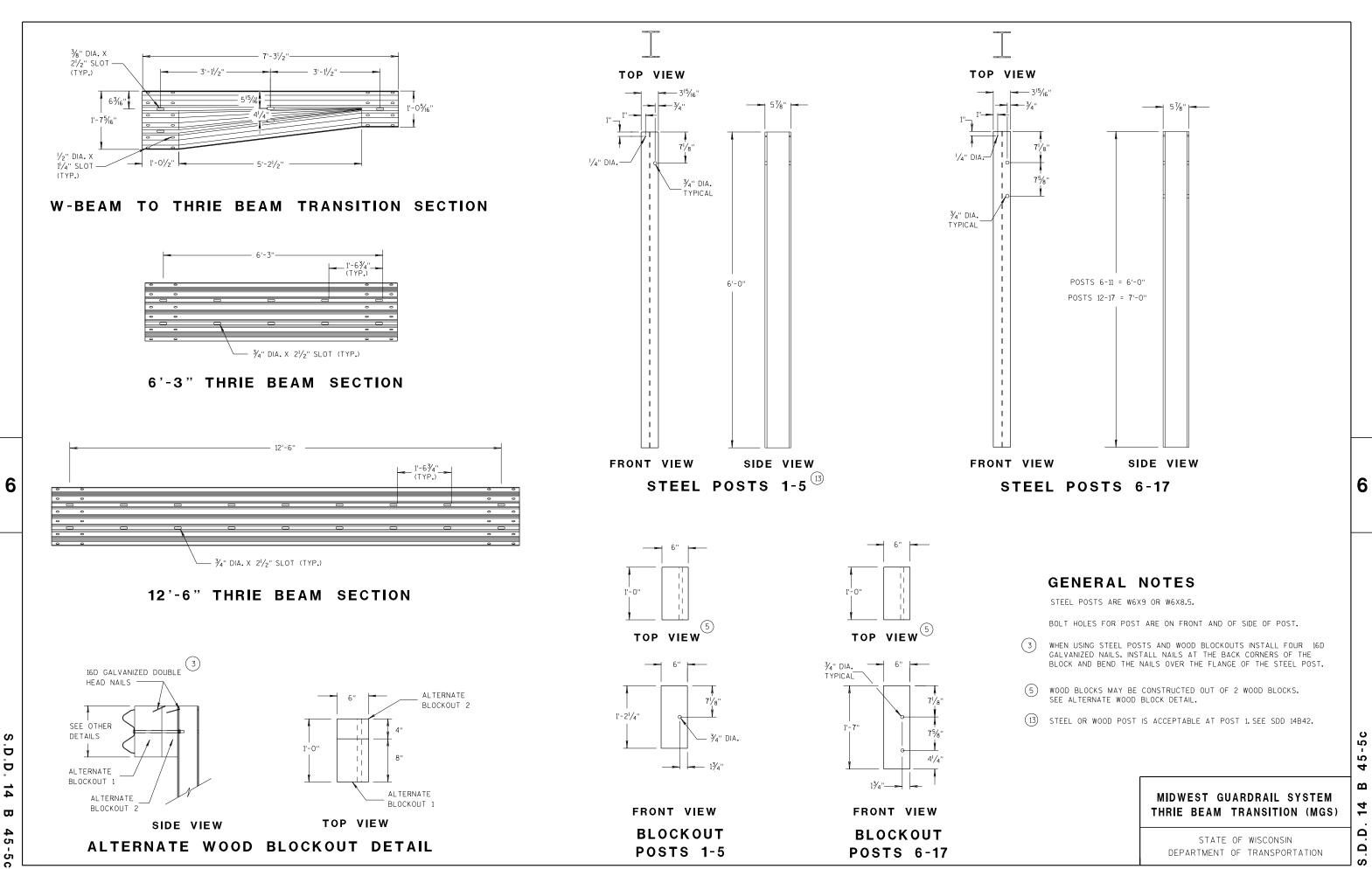
SDD 14B44

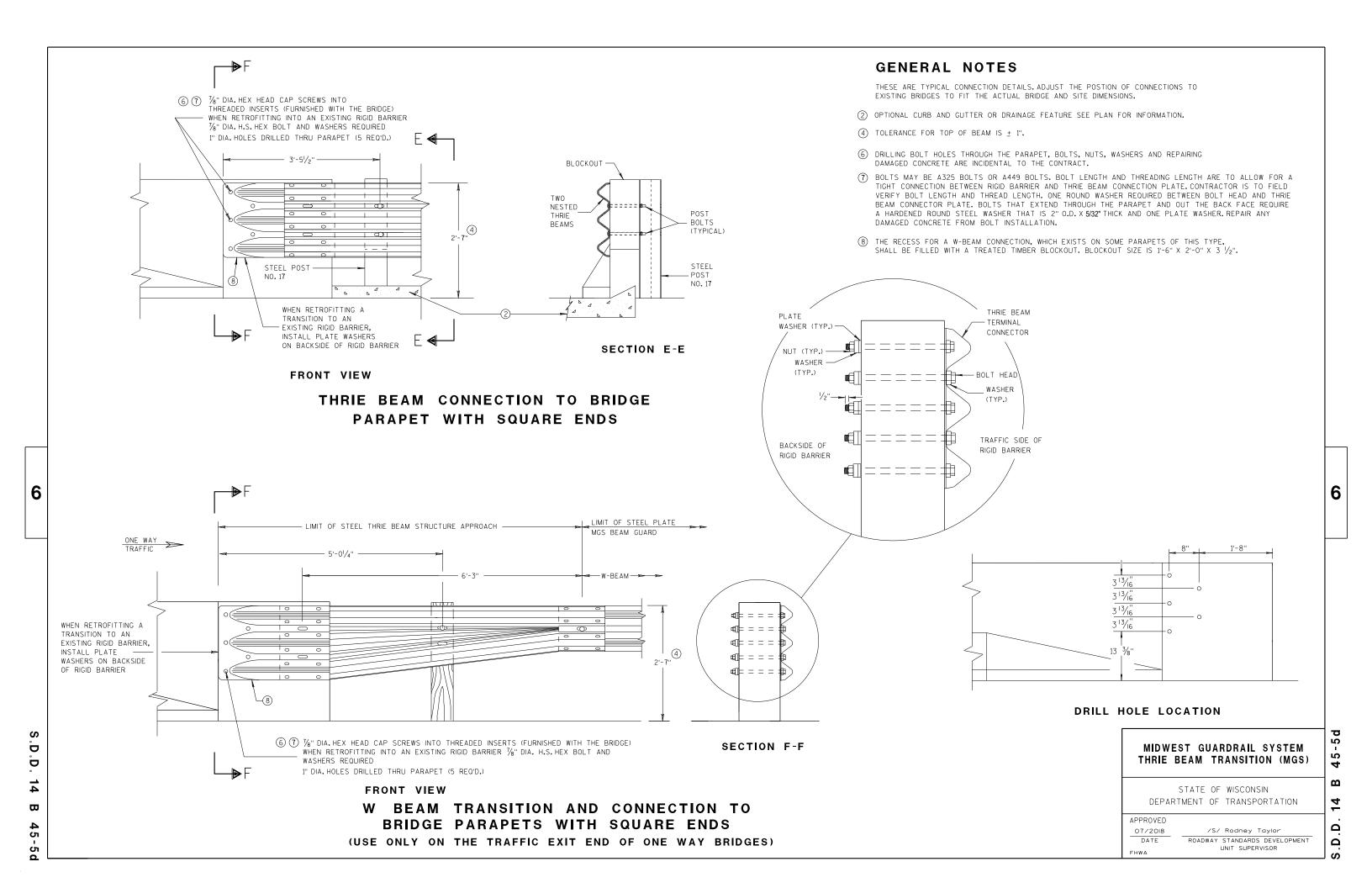
SDD 14B44



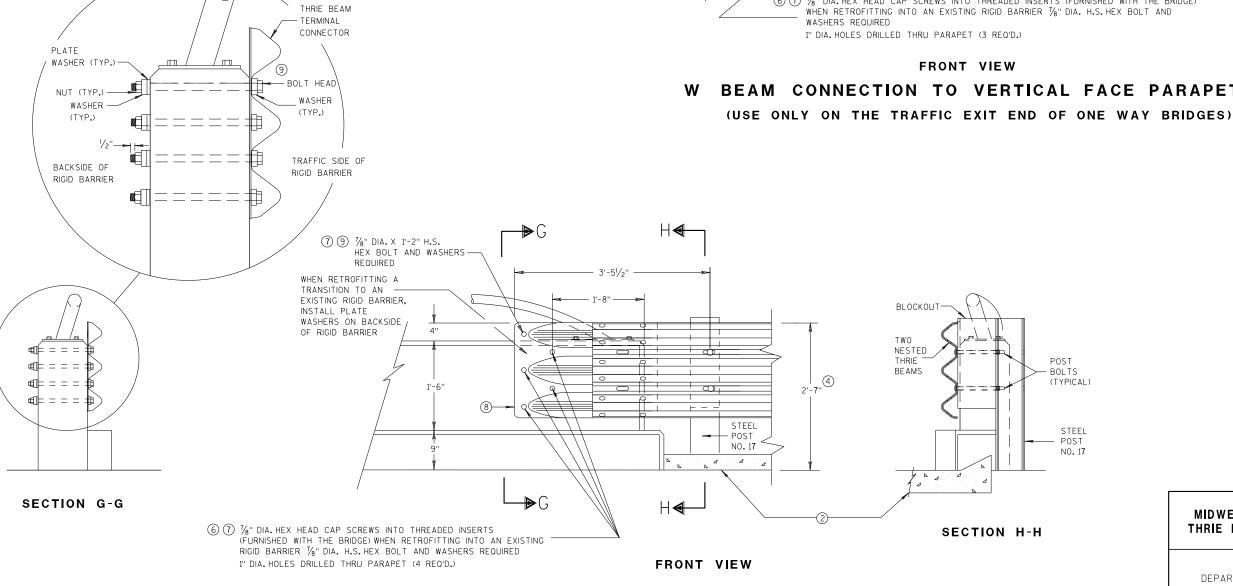








- (2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- (4) TOLERANCE FOR TOP OF BEAM IS ± 1".
- 6 DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- 7 BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION 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.
- (8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".
- (9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.



THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

LIMIT OF STEEL PLATE 7 7/8" DIA. X 1'-2" H.S. MGS BEAM GUARD HEX BOLT AND WASHERS REQUIRED 5'-0 1/4" ONE WAY
TRAFFIC WHEN RETROFITTING A TRANSITION TO AN EXISTING RIGID BARRIER, INSTALL 9 PLATE WASHERS ON BACKSIDE OF RIGID BARRIER W BEAM TERMINAL 8 CONNECTOR (4) 2'-7' 6 7 %" DIA. HEX HEAD CAP SCREWS INTO THREADED INSERTS (FURNISHED WITH THE BRIDGE) WHEN RETROFITTING INTO AN EXISTING RIGID BARRIER 1/8" DIA. H.S. HEX BOLT AND

BEAM CONNECTION TO VERTICAL FACE PARAPET

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) 6

45

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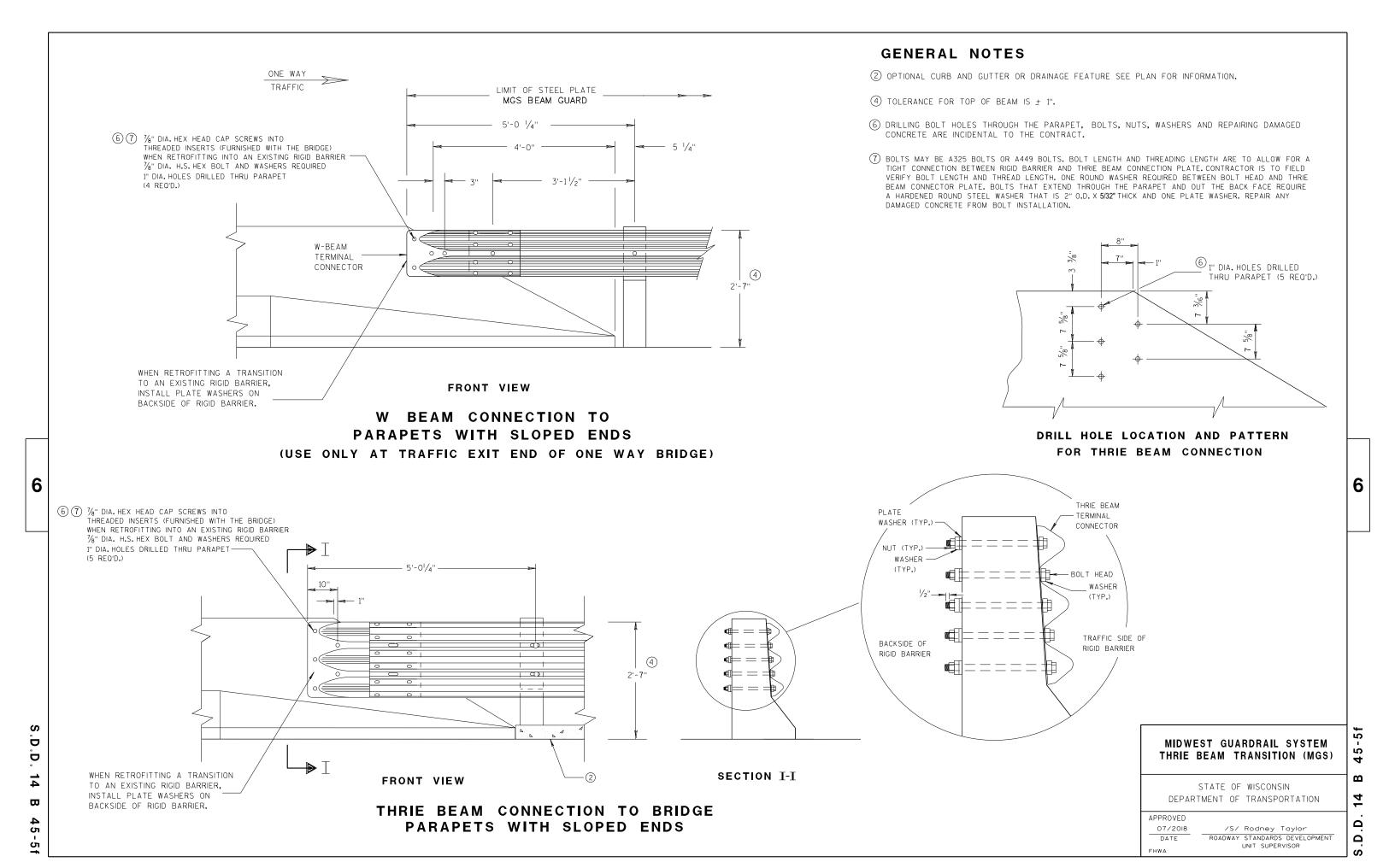
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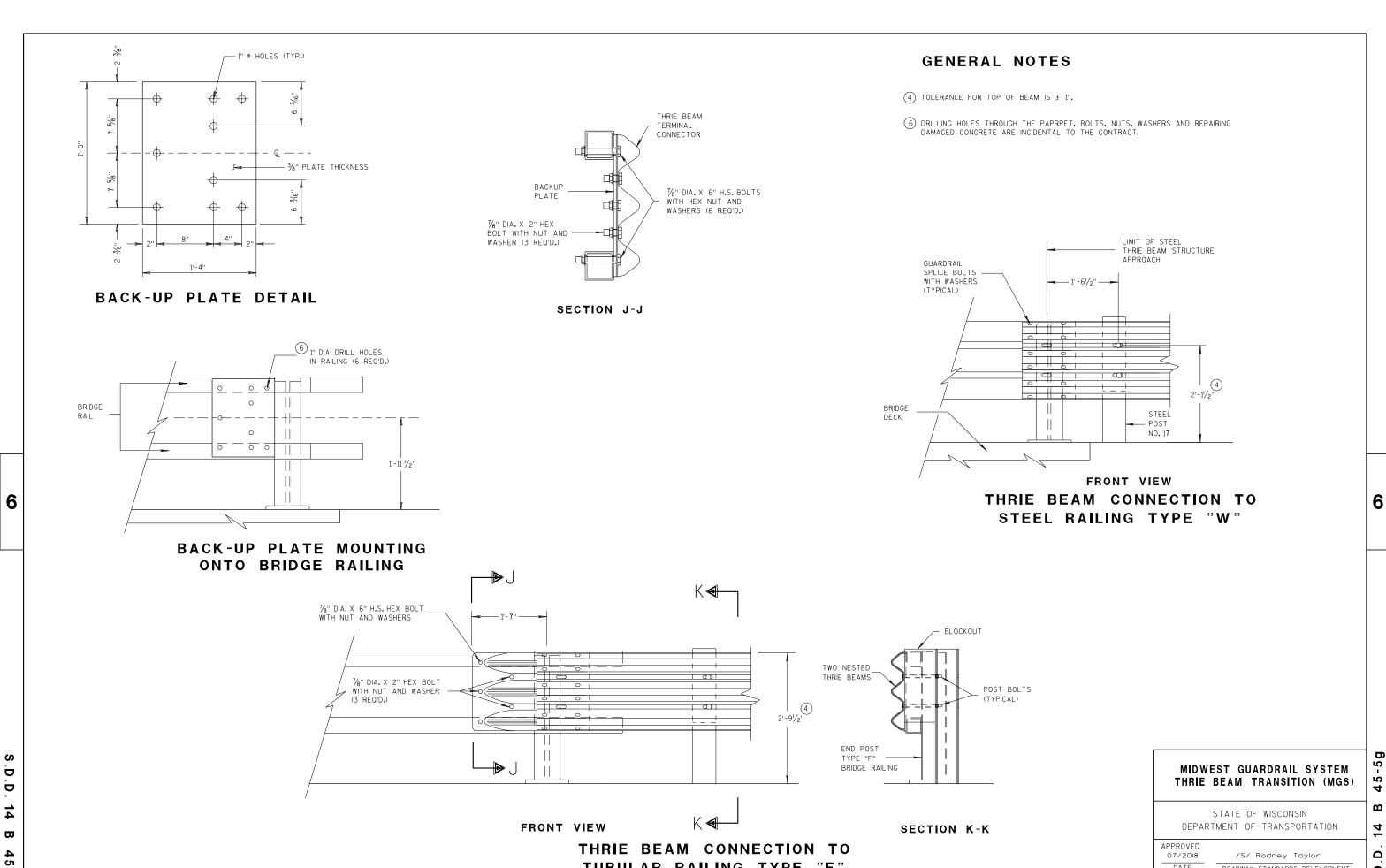
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED /S/ Rodney Taylor 07/2018 DATE ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

D D ₿ G





TUBULAR RAILING TYPE "F"

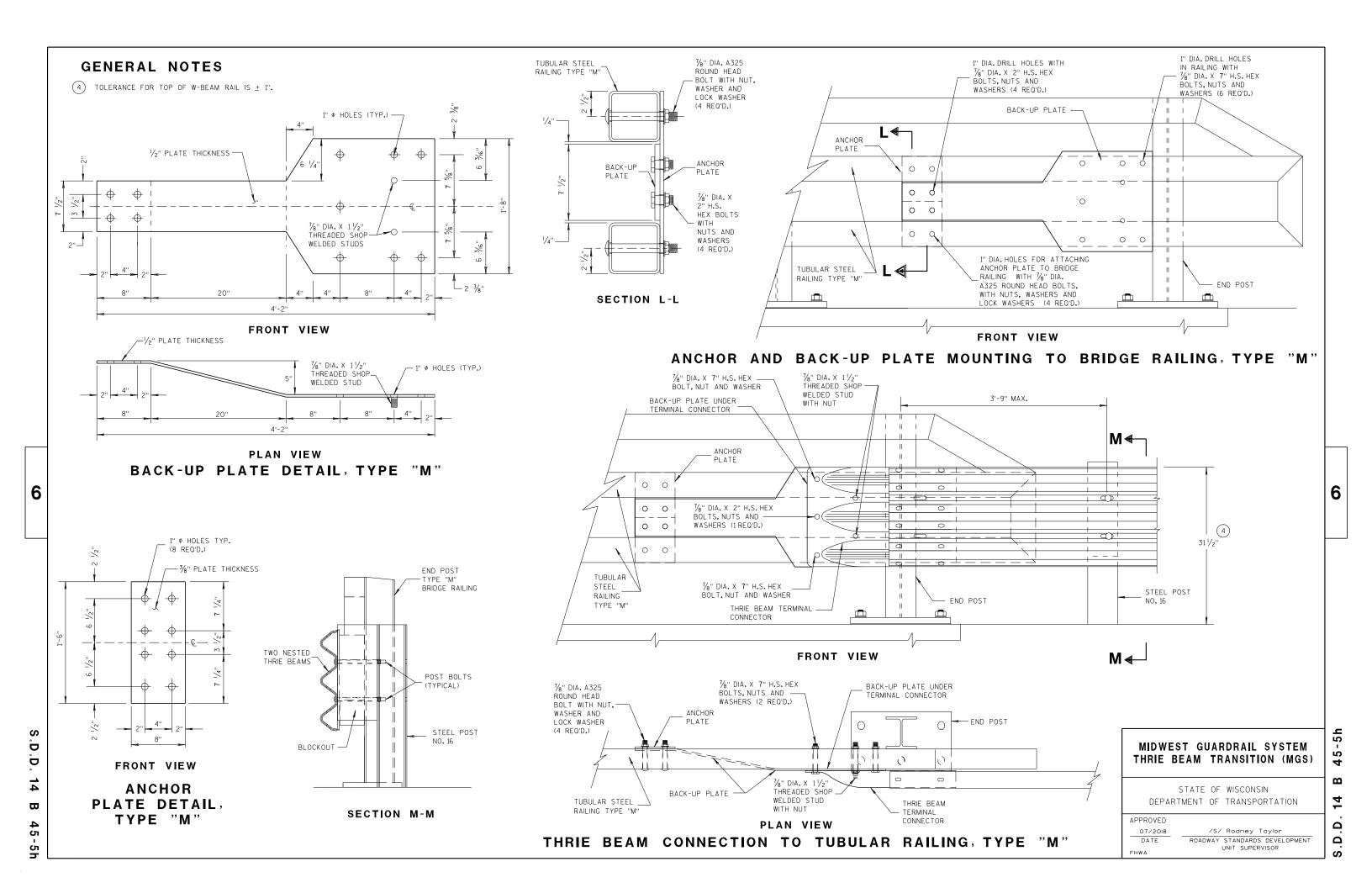
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DATE

ROADWAY STANDARDS DEVELOPMENT

UNIT SUPERVISOR



WELDING INSTRUCTION

21/2"

101/2"

(VIEWED FROM BACK SIDE OF PLATE)

PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)						
PLATE	QUANTITY	SHAPE	SIZE (A × B × C × D)	THICKNESS		
P1	1	ВЁ	20" × 20"	3/16"		
P2	1	B₽€	20" × 20" × 28%6"	3/16"		
P3	1	B _ CD	39" × 35/8" × 20" × 195/6"	3/16"		
S1	4	B A	187/ ₁₆ " × 35/ ₈ " × 183/ ₄ "	1/4"		
S2	1	B O	$10^{1}/_{4}$ " × $2\frac{7}{16}$ " × $10\frac{3}{8}$ " × $\frac{1}{2}$ "	1/4"		
S3	1	B₽D	3" × 1½6" × 3½" × ½"	1/4"		
S4	1	В□	61/8" × 27/16"	1/4"		
S5	1	в∟	6½" × ½"	1/4"		
S6	1	в≞	7¾" × 1¾"	1/4"		
S 7	1	ABC	$2\%6" \times 6" \times 3\%" \times 5\%"$	1/4"		
S8	1	A B C	$1^{5/32}$ " × $7^{1/2}$ " × $2^{1/2}$ " × $7^{3/8}$ "	1/4"		
S9	1	C B	6½6" × 6¾6" × 1¾32"	1/4"		
S10	1	ABC	$1\frac{1}{8}$ " × $9\frac{1}{8}$ " × $3\frac{5}{8}$ " × $9\frac{1}{16}$ "	1/4"		
S11	1	C A	$8\frac{1}{2}$ " × $8\frac{3}{4}$ " × $1\frac{1}{3}$ /6"	1/4"		

BACK SIDE OF PLATE

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

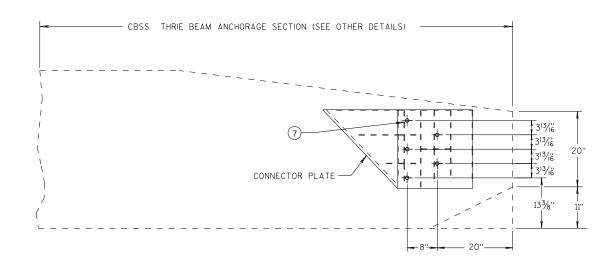
GENERAL NOTES COVER PLATE PANELS ARE 3/16" THICK.

BACK SIDE OF PLATE

/S/ Rodney Taylor 7/2018 ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR DATE

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THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER

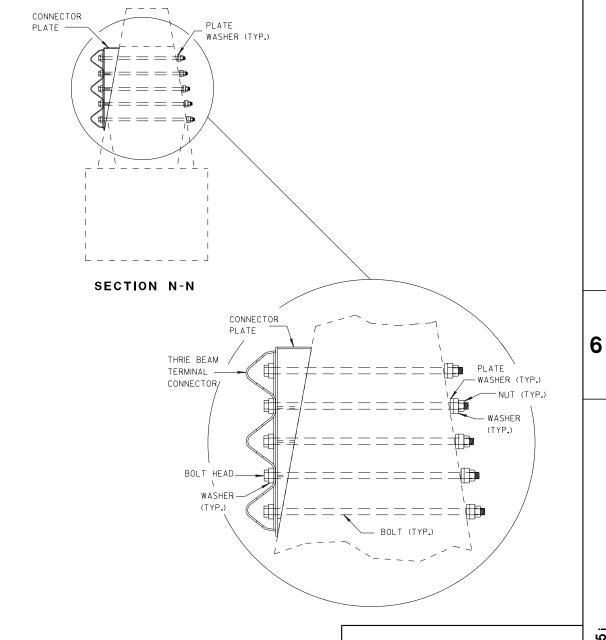


SINGLE SLOPE CONNECTION PLATE PLACEMENT

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

APPROVED

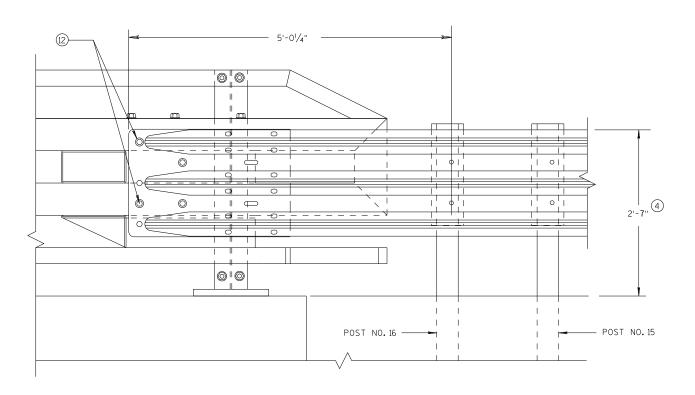
/S/ ROC

ROADWAY STAN

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

D.D. 14 B 45

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

- (4) TOLERANCE FOR TOP OF BEAM IS ± 1".
- 12 BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION 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. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Rodney Taylor DATE ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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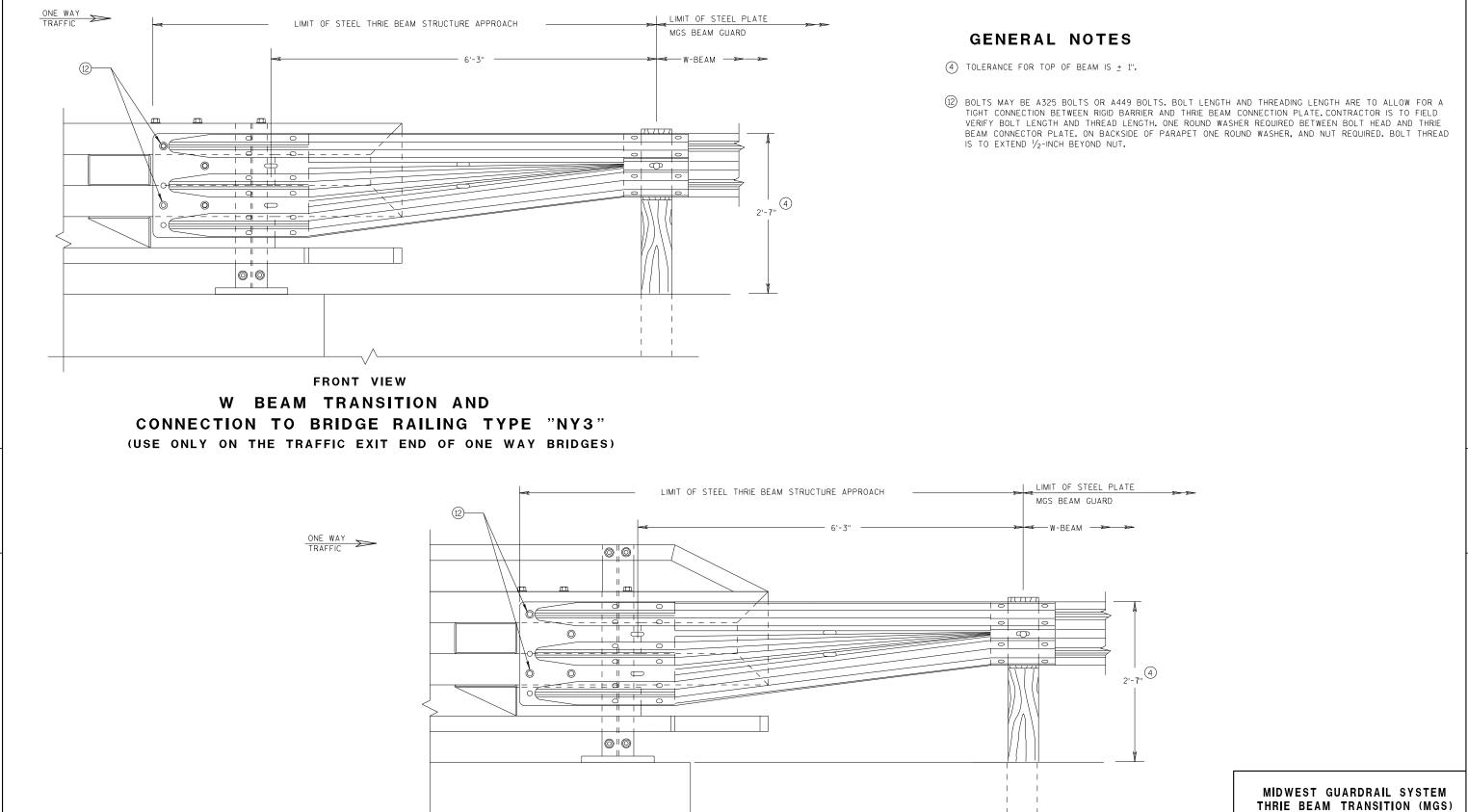
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FRONT VIEW

W BEAM TRANSITION AND

CONNECTION TO BRIDGE RAILING TYPE "NY4"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

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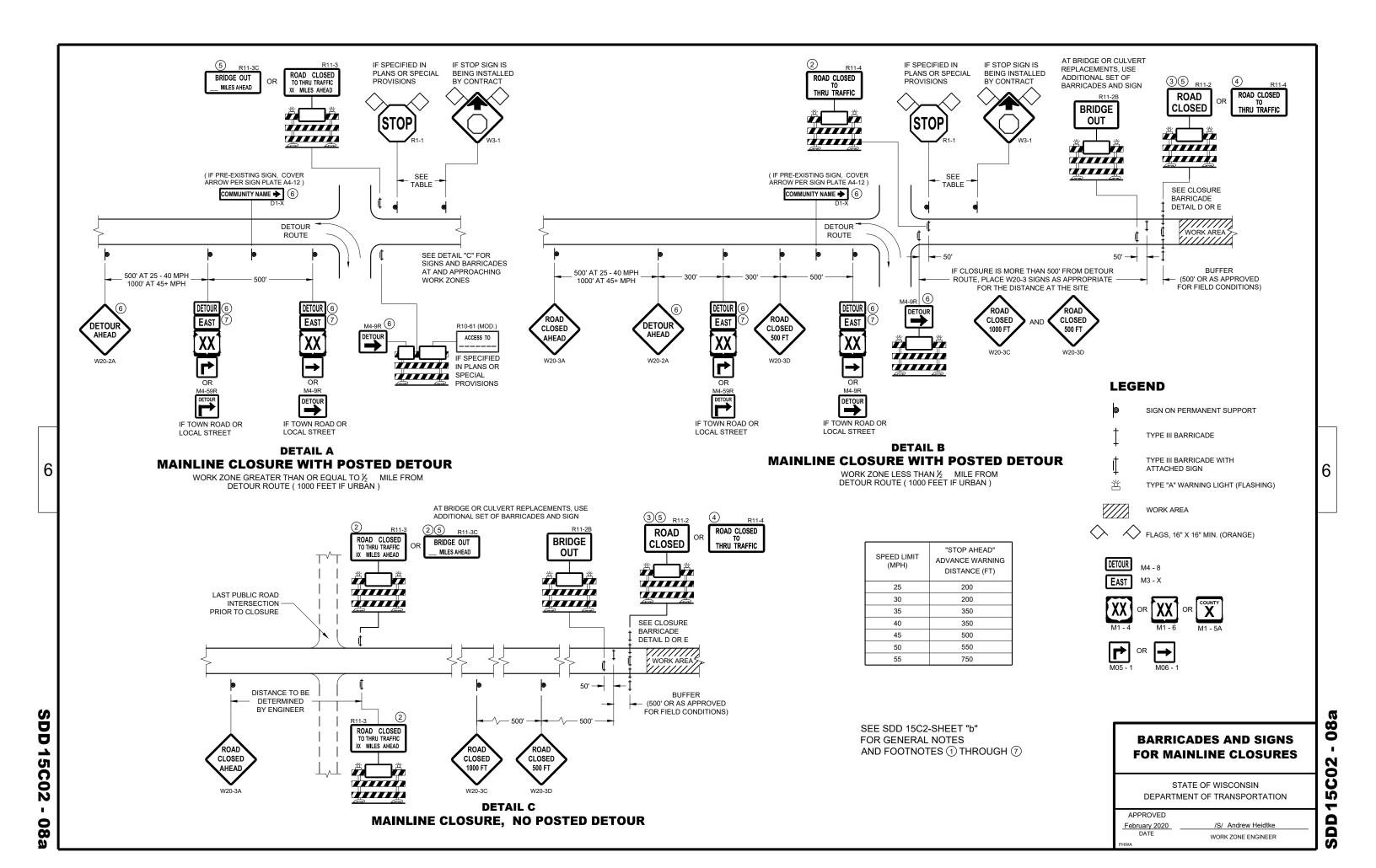
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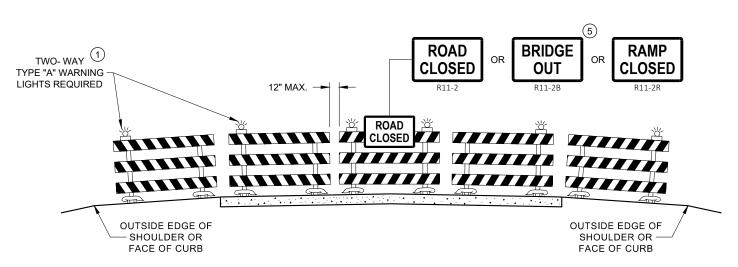
/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT

DATE UNIT SUPERVISOR

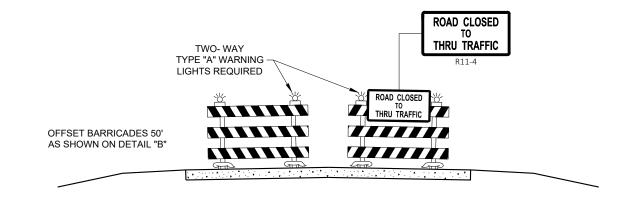
APPROVED

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 SUPPORTS

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

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

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

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

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

R11 - 2 SHALL BE 48" X 30"

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

M4 - 9 SHALL BE 30" X 24"

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

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

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

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

R1 - 1 SHALL BE 36" X 36"

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

FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2020 ____

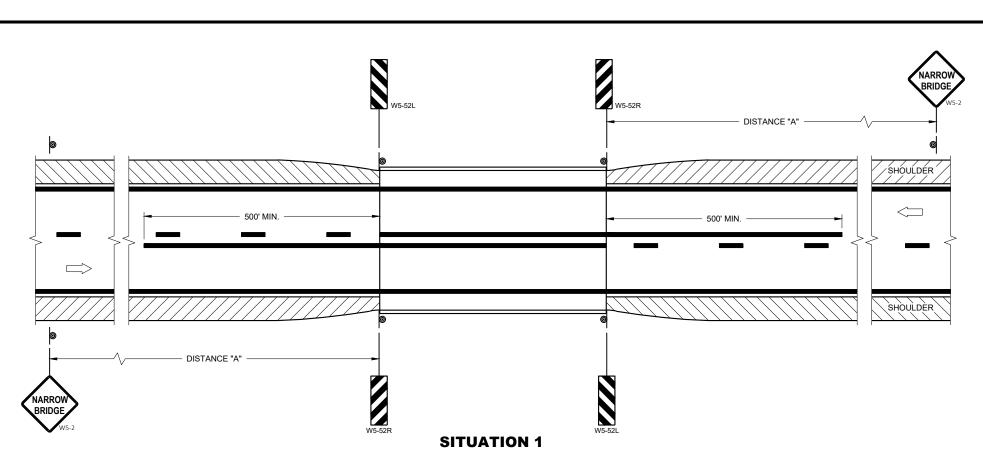
/S/ Andrew Heidtke
WORK ZONE ENGINEER

D15C0

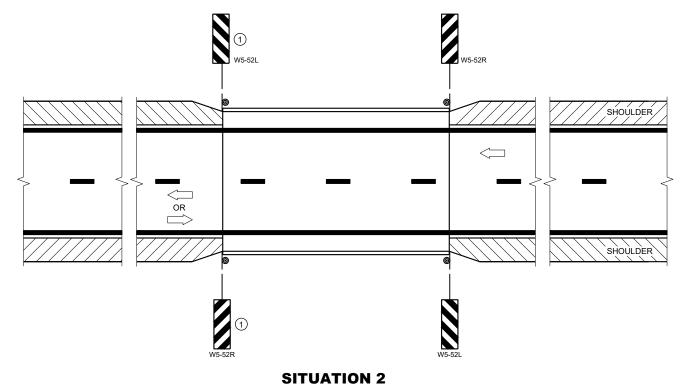
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WARRANTING CRITERIA: BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.



SDD

15C06

WARRANTING CRITERIA:

- 1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
- 2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET

GENERAL NOTES

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

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

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

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

(1) OMIT ON ONE-WAY TRAVELED WAYS.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

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

SIGNING AND MARKING FOR TWO LANE BRIDGES

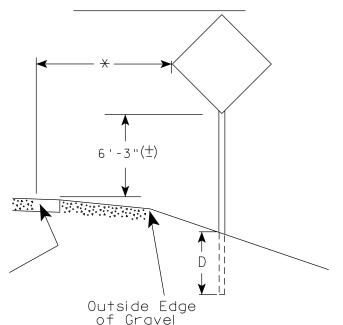
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2022	/S/ Jeannie Silver
DATE	STATE SIGNING AND MARKING
	ENGINEER

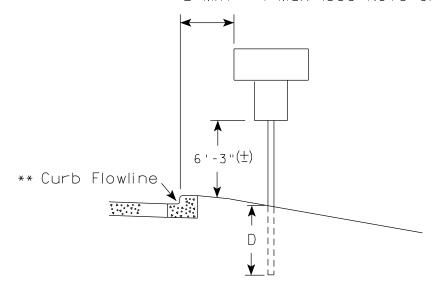
2' Min - 4' Max (See Note 6)

The state of t

White Edgeline Location



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



White Edgeline Location

geline

Outside Edge
of Gravel

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is

HWY:

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

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). 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. For expressways and freeways, mounting height is 7'- 3" (\pm) or 6'-3" (\pm) depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is 5' 3'' ($\frac{+}{2}$).
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (±) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

SHEET NO:

Ε

PROJECT NO:

FILE NAME: C:\CAEfiles\Projects\tr_stdplate\A43.dgn

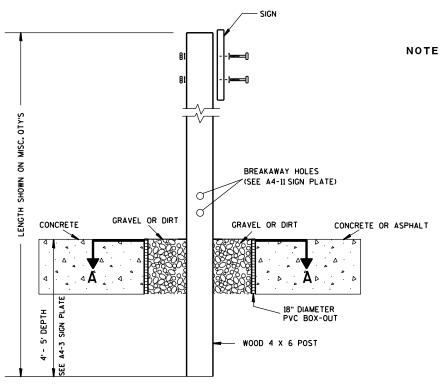
measured from the flow line.

COUNTY: PLOT DATE: 13-MAY 2020 1:04

PLOT BY : mscj9h

PLOT NAME :

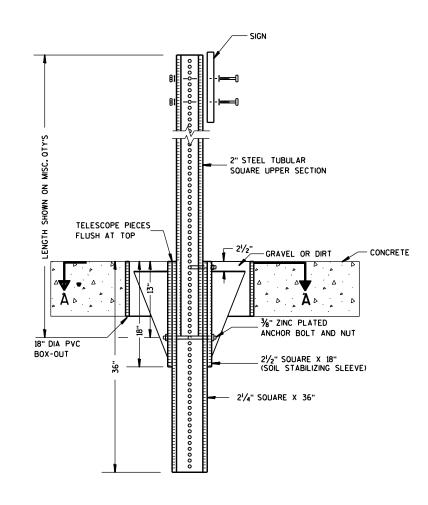
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



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.



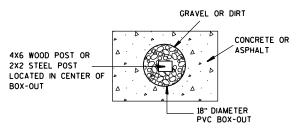
ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT

ELEVATION VIEW

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

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).
- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- $\star\star\star$ See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

D
(Min)
4'
5'

OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

TYPICAL INSTALLATION

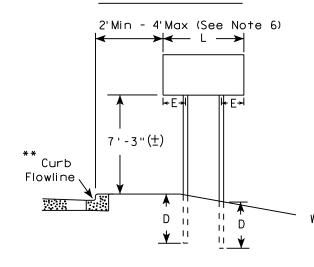
For State Traffic Engineer

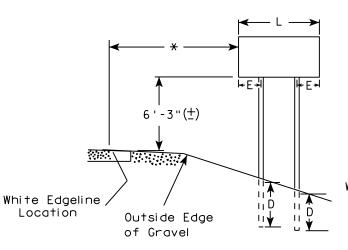
DATE 8/21/17 PLATE NO. 44-4.15

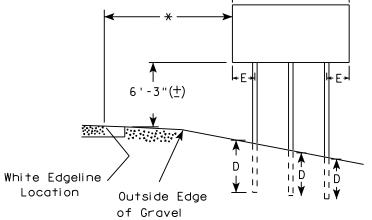
SHEET NO:

URBAN AREA

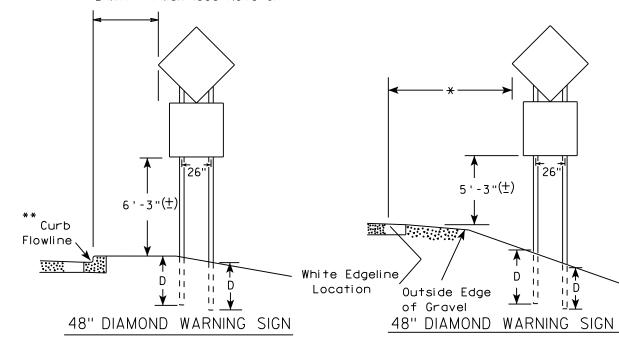
RURAL AREA (See Note 3)







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



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

HWY:

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

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

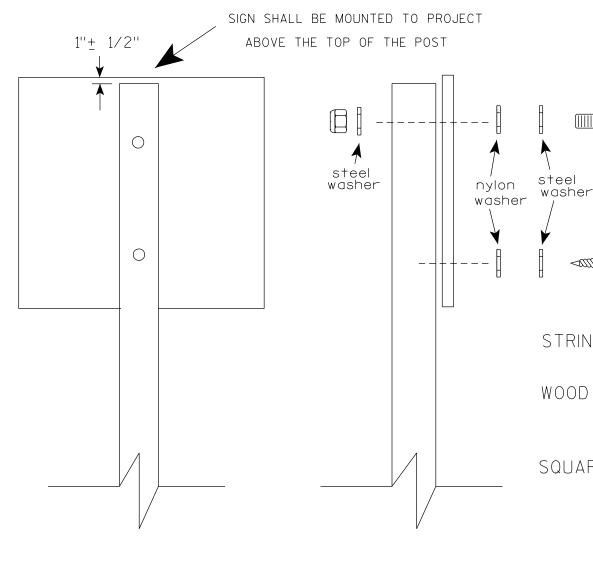
PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

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

PLOT SCALE: 108.188297:1.000000

WISDOT/CADDS SHEET 42



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

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

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

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

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

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

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

SQUARE STEEL POSTS (2" x 2")

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

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

WASHERS (ALL POSTS) -

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

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

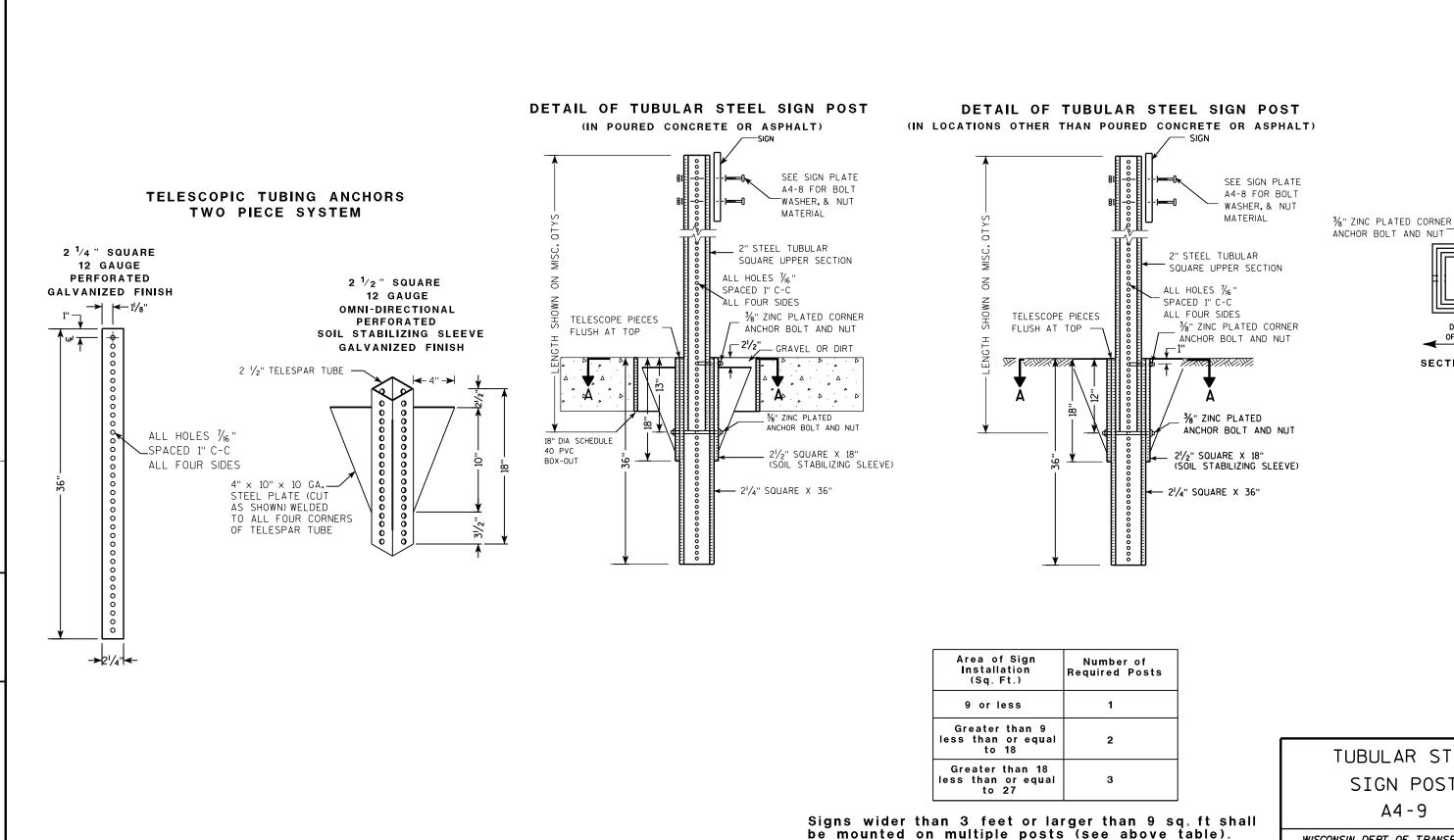
PLATE NO. <u>A4-8.9</u>

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

Ε



TUBULAR STEEL SIGN POST A4-9

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 2/05/15 PLATE NO. <u>A4-9.9</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN

HWY:

PROJECT NO:

PLOT DATE: 05-FEB-2015 17:09

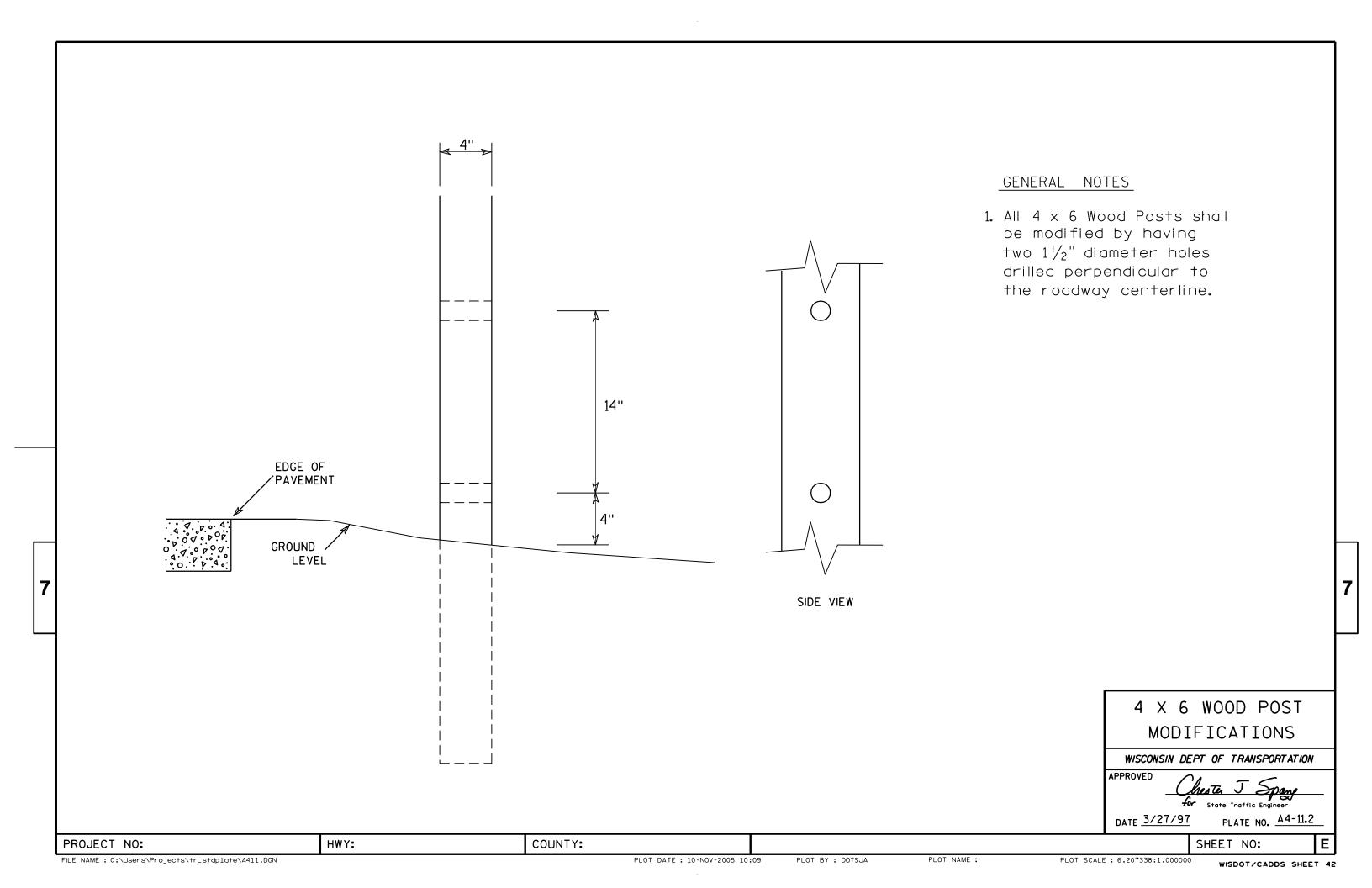
COUNTY:

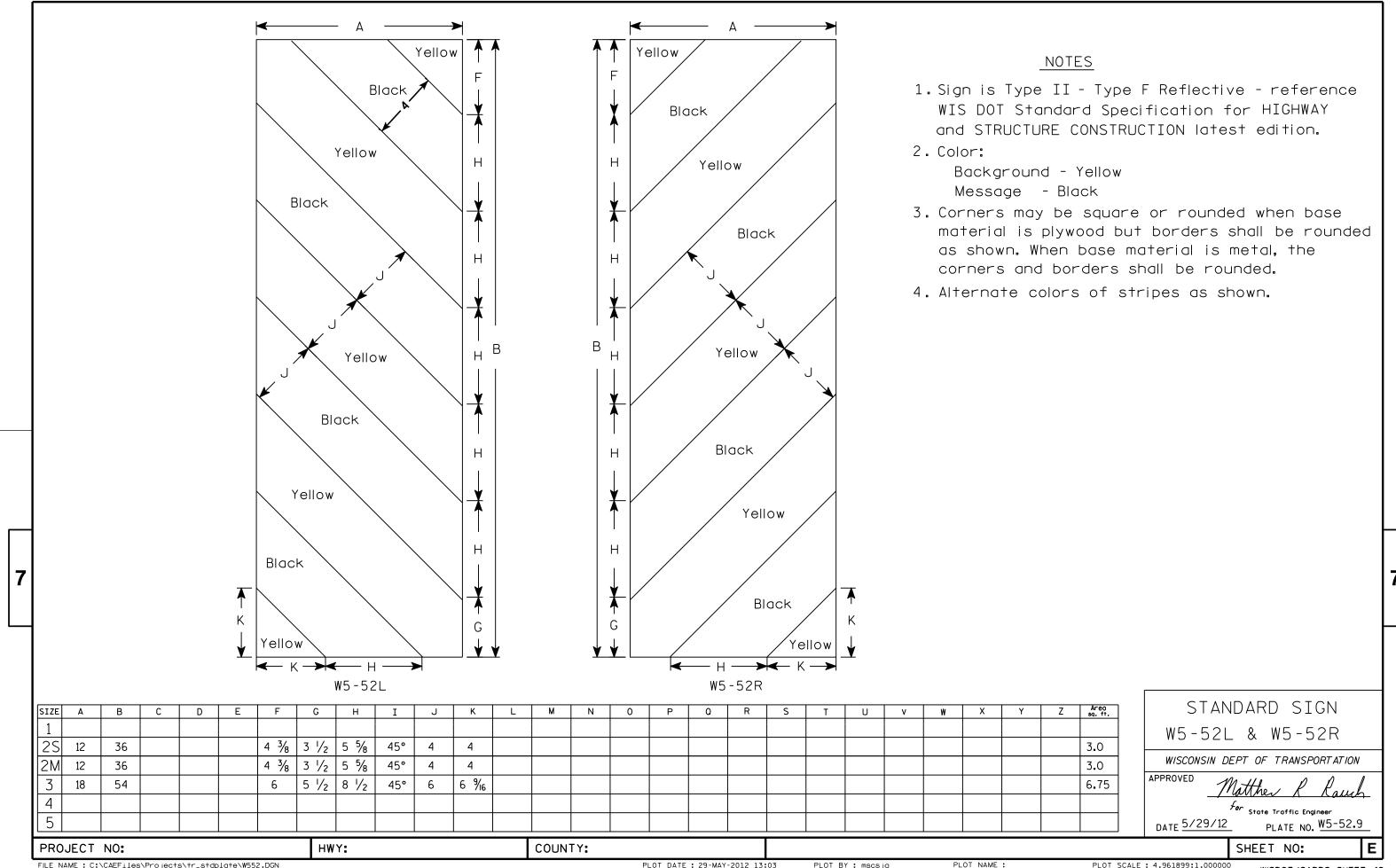
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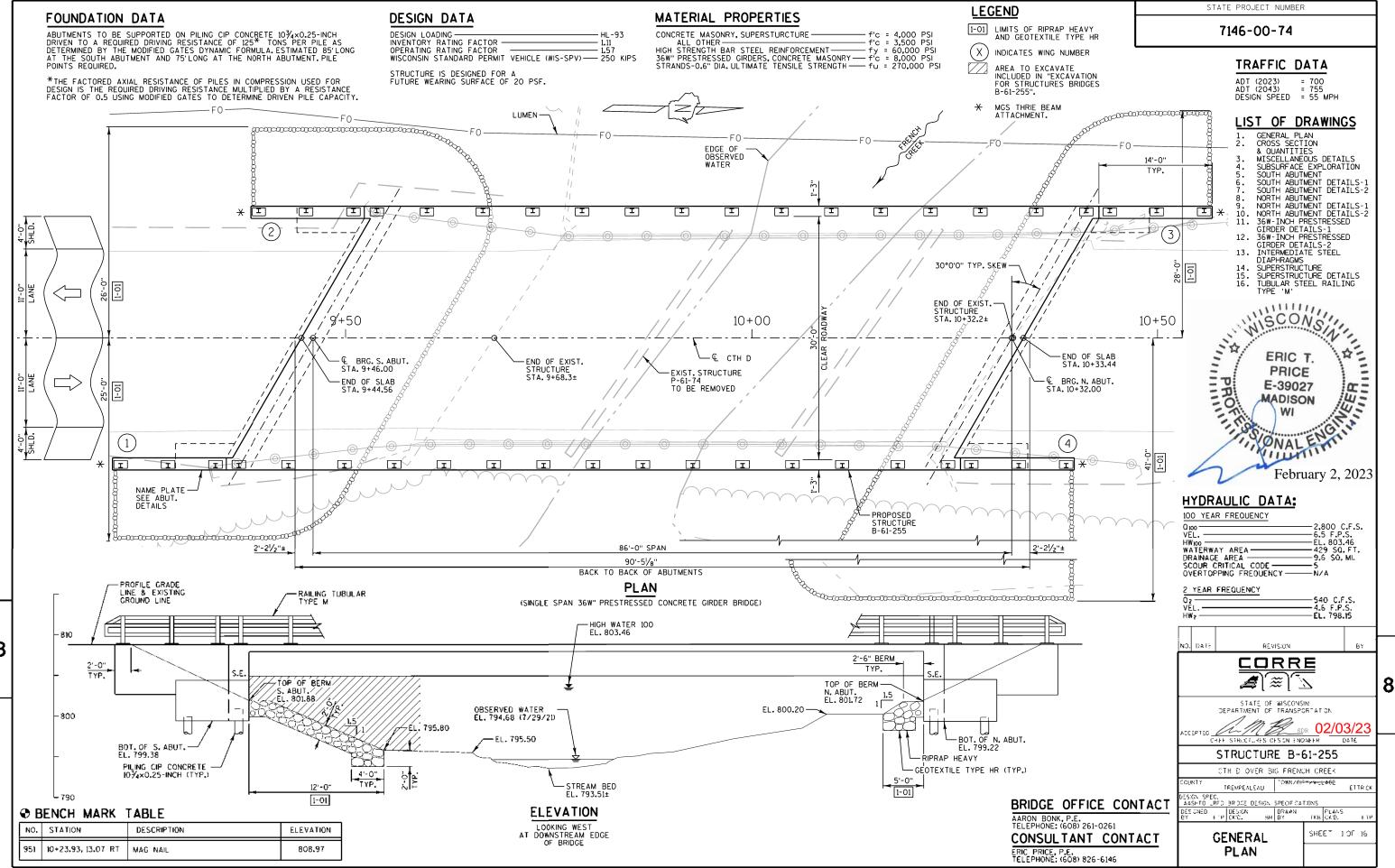
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

SECTION A-A







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

THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION M153 TYPE I, II OR III OR AASHTO DESIGNATION M213.

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-61-255" SHALL BE THE EXISTING GROUNDLINE.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE PRESTRESSED GIRDER DETAILS SHEET.

THE EXISTING STRUCTURE P-61-74 TO BE REMOVED, IS A THREE-SPAN TIMBER DECK GIRDER BRIDGE, $66.0~\mathrm{FT.LONG}$ With a $24.8~\mathrm{FT.CLEAR}$ ROADWAY WIDTH.

ELASTOMERIC BEARING PADS NON-LAMINATED NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

PROTECTIVE SURFACE TREATMENT IS TO BE APPLIED TO THE TOP OF DECK AND WINGS, THE DECK EDGE AND UNDERSIDE OF DECK AS SHOWN, THE EXTERIOR EXPOSED FACE OF WINGS, AND THE END 1'-O" OF THE ABUTMENT FRONT FACES.

LEGEND

- 2-01 3/4" V-GROOVE. TERMINATE 6" FROM FRONT FACE OF ABUTMENTS.
- 2-02 COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE WISDOT STANDARD SPECIFICATION.
- $\fbox{2-03}$ the Bid item "flashing stainless steel" shall include providing and installing the stainless flashing, silicone caulk and $\ensuremath{\%_6}$ " concrete screws.

FLASHING TO BE INSTALLED AFTER PROTECTIVE SURFACE TREATMENT APPLICATION.

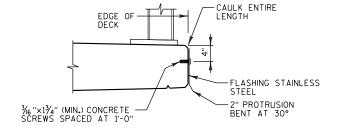
CONCRETE SCREWS SHALL BE 410 STAINLESS STEEL.

EXTEND FLASHING TO B.F. OF ABUTMENT DIAPHRAGM.

TOP OF FLASHING TO BEGIN APPROX. 1-INCH BELOW TOP OF DECK/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 3/6"x2" (MIN.) CONCRETE SCREWS. CAULK SHALL BE NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER.



1'-3"

2-01

3'-6"

2-02

2-02

-RAILING TUBULAR TYPE M (TYP.)

2-02

TOTAL ESTIMATED QUANTITIES

2-01

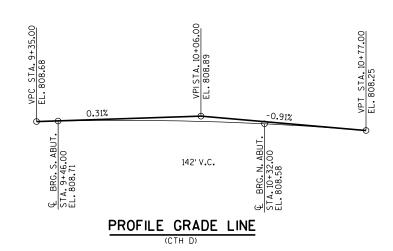
2-02

2-03

BID ITEM NUMBER	BID ITEM	UNIT	SOUTH ABUTMENT	NORTH ABUTMENT	SUPER.	TOTALS
203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-61-74	EACH	_		_	1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-61-255	EACH				1
210.1500	BACKFILL STRUCTURE TYPE A	TON	190	190	-	380
502.0100	CONCRETE MASONRY BRIDGES	CY	38.9	39.0	113.3	192
502.3200	PROTECTIVE SURFACE TREATMENT	SY	17	17	356	390
503.0137	PRESTRESSED GIRDER TYPE I 36W-INCH	LF	-		348	348
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2,600	2,600	-	5,200
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,680	1,680	19,410	22,770
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	4	4	-	8
506.4000	STEEL DIAPHRAGMS B-61-255	EACH	-		6	6
513.4061	RAILING TUBULAR TYPE M	LF	-		242	242
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	10	10	-	20
550.0500	PILE POINTS	EACH	11	11	-	22
550.2104	PILING CIP CONCRETE 10 3/4 X 0.25-INCH	LF	935	825	_	1,760
606.0300	RIPRAP HEAVY	CY	95	110	_	205
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	90	90	-	180
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	42	42	_	84
645.0120	GEOTEXTILE TYPE HR	SY	165	185	-	350
SPV.0090.01	FLASHING STAINLESS STEEL	LF	-		178	178
SPV.0090.02	REMOVING EXISTING TIMBER PILING	LF	-	200		200
	NON-BID ITEMS					·
	FILLER	SIZE	-		-	1/2" & 3/4"
	NAME PLATE	EACH	-		-	1

15'-0"

FLASHING STAINLESS STEEL 2-03



ABBREVIATIONS:

ABUT. ABUTMENT BETWEEN BACK FACE BOTTOM BTWN. B.F. BOT. BRG. BEARING CL. -CONST. -CLEAR CONSTRUCTION DIAMETER DIA. E.F. EXIST. F.F. HORIZ. -EACH FACE EXISTING FRONT FACE HORIZONTAL HORIZ. JT. LONG. PPT. PROJ. S.E. SPA. STD. SYMM. T&B TRANS. -JOINT LONGITUDINAL PARAPET PROJECTION SEMI-EXPANSION SPACED STANDARD SYMMETRICAL TOP AND BOTTOM TRANSVERSE TYPICAL TYP. -VERTICAL UNLESS NOTED OTHERWISE

NO. DATE REVISION BY STRUCTURE B-61-255 SHEET 2 OF 16 **CROSS SECTION & QUANTITIES**

FILE NAME: c:\OD\CORRE, Inc\Projects - WI-NW Region\C0362-D-06_Trempealeau Co_CTH D over French Creek\500_CADD\503_Structures\B-61-255_02 typsections.dgn

OUT TO OUT OF SLAB

3 SPA.@ 8'-6" = 25'-6"

36W" PRESTRESSED CONCRETE GIRDERS

CROSS SECTION THRU BRIDGE

(LOOKING NORTH)

€ CTH D-

81/2" DECK —

2.0%

15'-0"

POINT REFERRED TO ON PROFILE

2.0%

PLOT DATE: 1/10/2023 9:48:59 AM

PLOT SCALE: 1:2

8

3-01 BACKFILL PAY LIMITS.BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO "EXCAVATION FOR STRUCTURES BRIDGES B-61-255".LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

3-02 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.

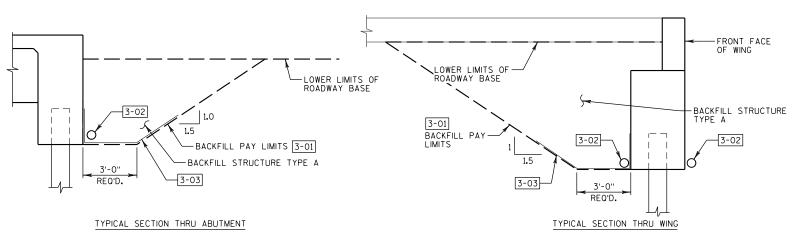
3-03 EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL.
"GEOTEXTILE TYPE DF SCHEDULE A" SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE

CAST-IN-PLACE 'PIPE PILE'

BOTTOM OF EXCAVATION LIMITS.

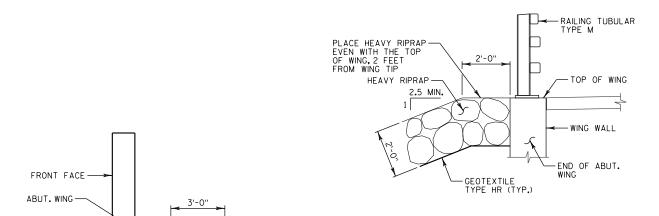
BACK UP RING. 3/6" MIN. THICKNESS FOR SMAW AND 1/4" MIN. THICKNESS FOR FCAW.

B-U4a B-U4a-GF STATE PROJECT NUMBER



STRUCTURE BACKFILL LIMITS

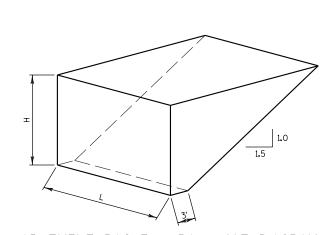
THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.



TOE OF

FRONT FACE

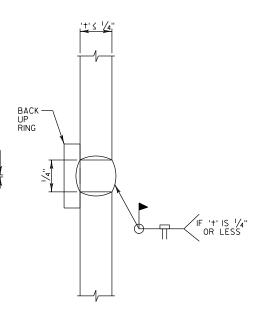
TYPICAL FILL SECTION AT WING TIPS



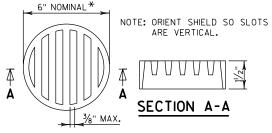
ABUTMENT BACKFILL PAY LIMIT DIAGRAM

- = OUT TO OUT OF ABUTMENT.INCLUDING WINGS (FT)
 = AVERAGE ABUTMENT FILL HEIGHT (FT)
 = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
 = (L)(3.0)(H) + (L)(0.5)(1.5H)(H)

- $V_{CF} = (L)(3.0')(H) + V_{CY} = V_{CF} (EF)/27 + V_{TON} = V_{CY} (2.0)$



CIP PILE WELD DETAIL

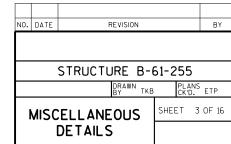


* DIMENSION IS APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.

RODENT SHIELD DETAIL

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

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO.10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



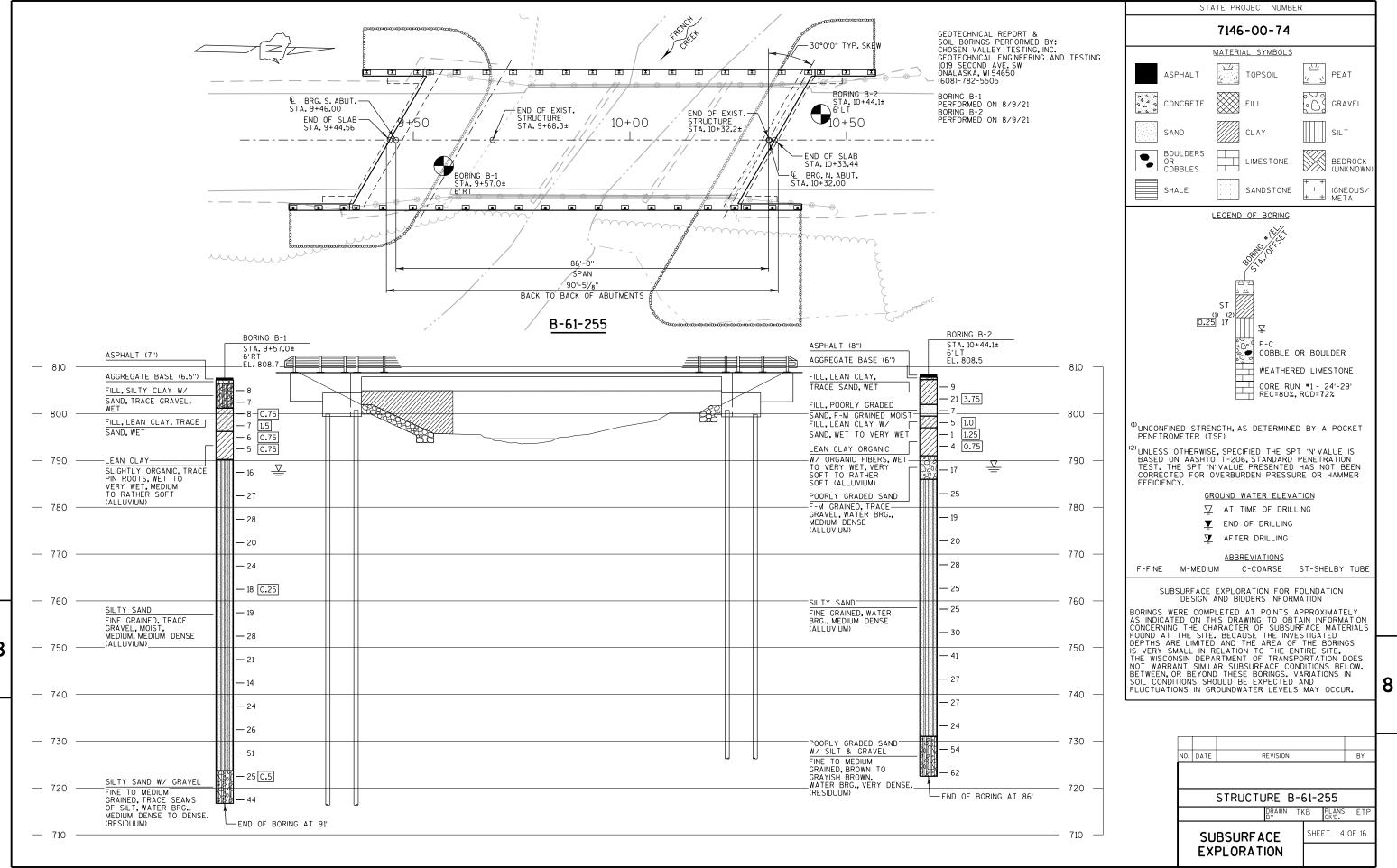
8

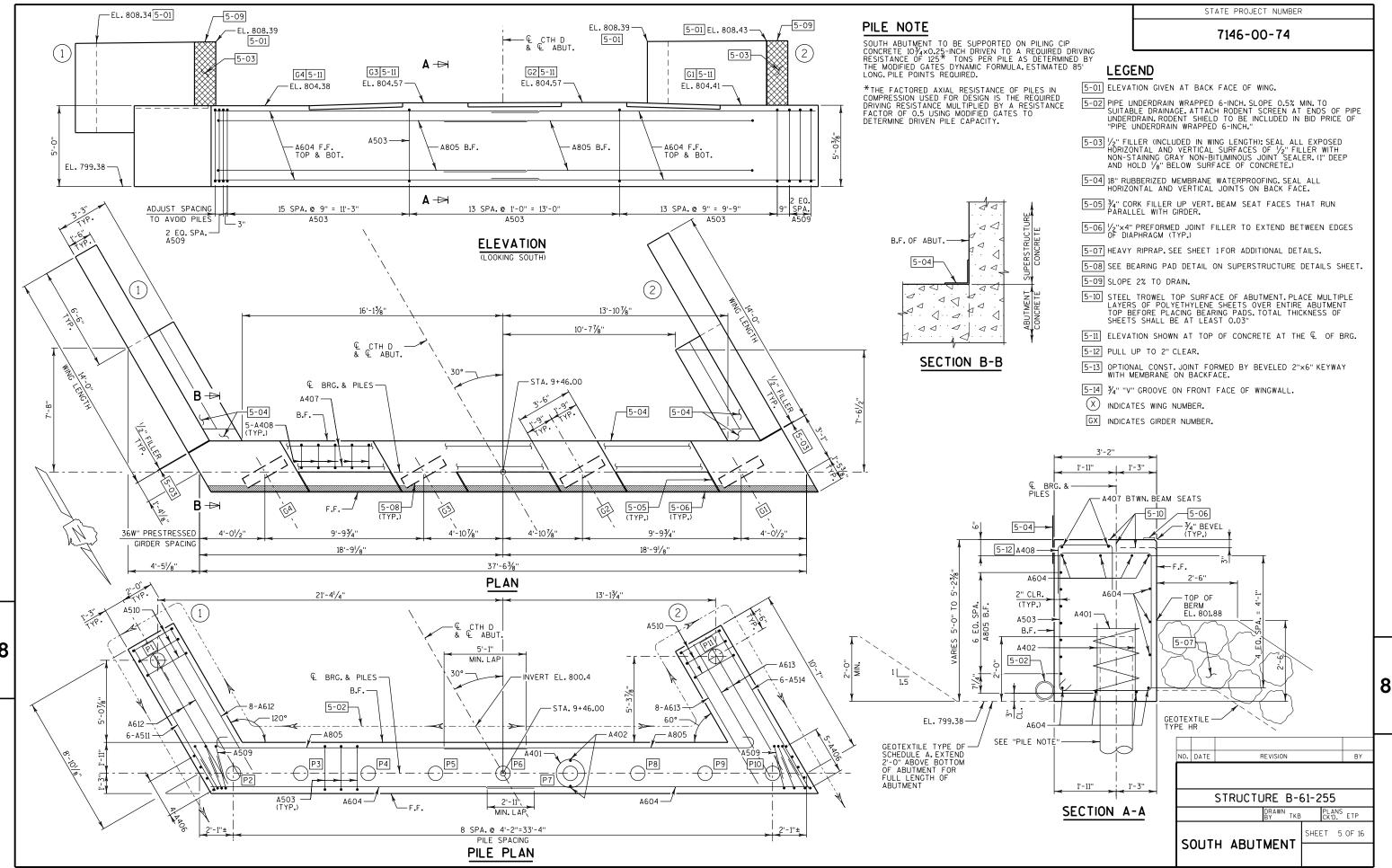
ABUTMENT PLAN WITH WING

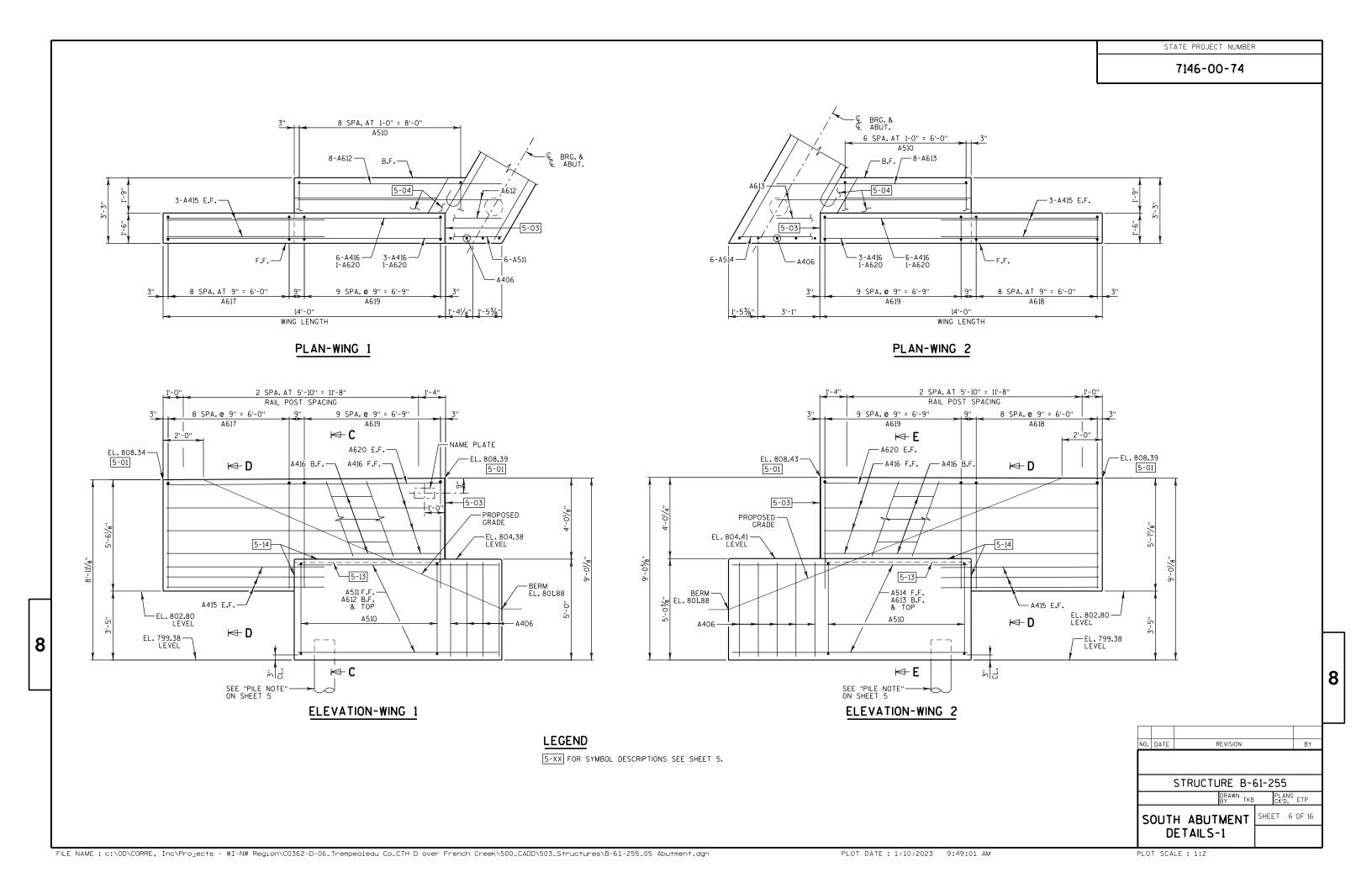
3-02

"GEOTEXTILE TYPE

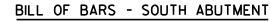
DF SCHEDULE A" LIMITS (HATCHED AREA)







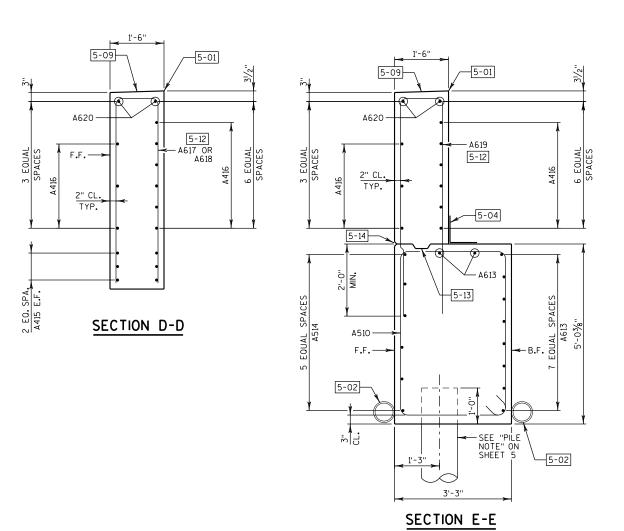
7146-00-74



DIMENSIONS IN BENDING DETAILS ARE OUT-TO-OUT OF BAR.

BAR MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION		
NON-COA	TED BAR	RS			TOTAL WEIGHT =	2,600 LBS	
A401	11	28'-0"	Х		BODY - AT PILES - 1 PER PILE	VERT.	
A402	22	2'-3"			BODY - AT PILES - 2 PER PILE	VERT.	
A503	42	15'-0"	X		BODY - STIRRUPS	VERT.	
A604	22	20'-1"			BODY - F.F., TOP & BTM	HORIZ.	
A805	14	22'-0"	X		BODY - B.F.	HORIZ.	
A406	9	4'-7"			BODY - ABUTMENT ENDS	VERT.	
A407	6	7'-10"			BODY - BTWN BEAM SEATS	HORIZ.	
A408	15	4'-5"	X		BODY - BTWN BEAM SEATS	VERT.	
A509	12	9'-6"	X		BODY - ABUTMENT ENDS	VERT.	
COATED B	ARS				TOTAL WEIGHT =	1,680 LBS	
A510	16	15'-8"	Х		WINGS 1 & 2 - STIRRUPS	VERT.	
A511	6	9'-11"			WING 1 - F.F.	HORIZ.	
A612	10	10'-4"			WING 1 - TOP & B.F.	HORIZ.	
A613	10	9'-5"			WING 2 - TOP & B.F.	HORIZ.	
A514	6	11'-6"			WING 2 - F.F.	HORIZ.	
A415	12	7'-9"			WINGS 1 & 2 - OVERHANG	HORIZ.	
A416	18	13'-8"			WINGS 1 & 2	HORIZ.	
A617	9	11'-0"	Х		WING 1 - OVERHANG	VERT.	
A618	9	11'-2"	X		WING 2 - OVERHANG	VERT.	
A619	20	12'-6"	Х		WINGS 1 & 2 - TOP	VERT.	
A620	4	13'-8"			WINGS 1 & 2 - TOP	HORIZ.	

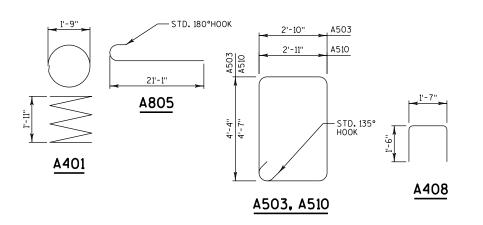
THE FIRST DIGIT OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

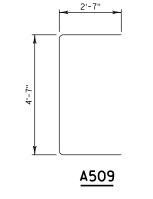


LEGEND

A617, A618, A619

5-XX FOR SYMBOL DESCRIPTIONS SEE SHEET 5.





STRUCTURE B-61-255

| DRAWN TKB | PLANS ETP |
| SOUTH ABUTMENT | DETAILS-2 | SHEET 7 OF 16

8

A620-

5-14

A510 -

5 EQUAL SPACES A511

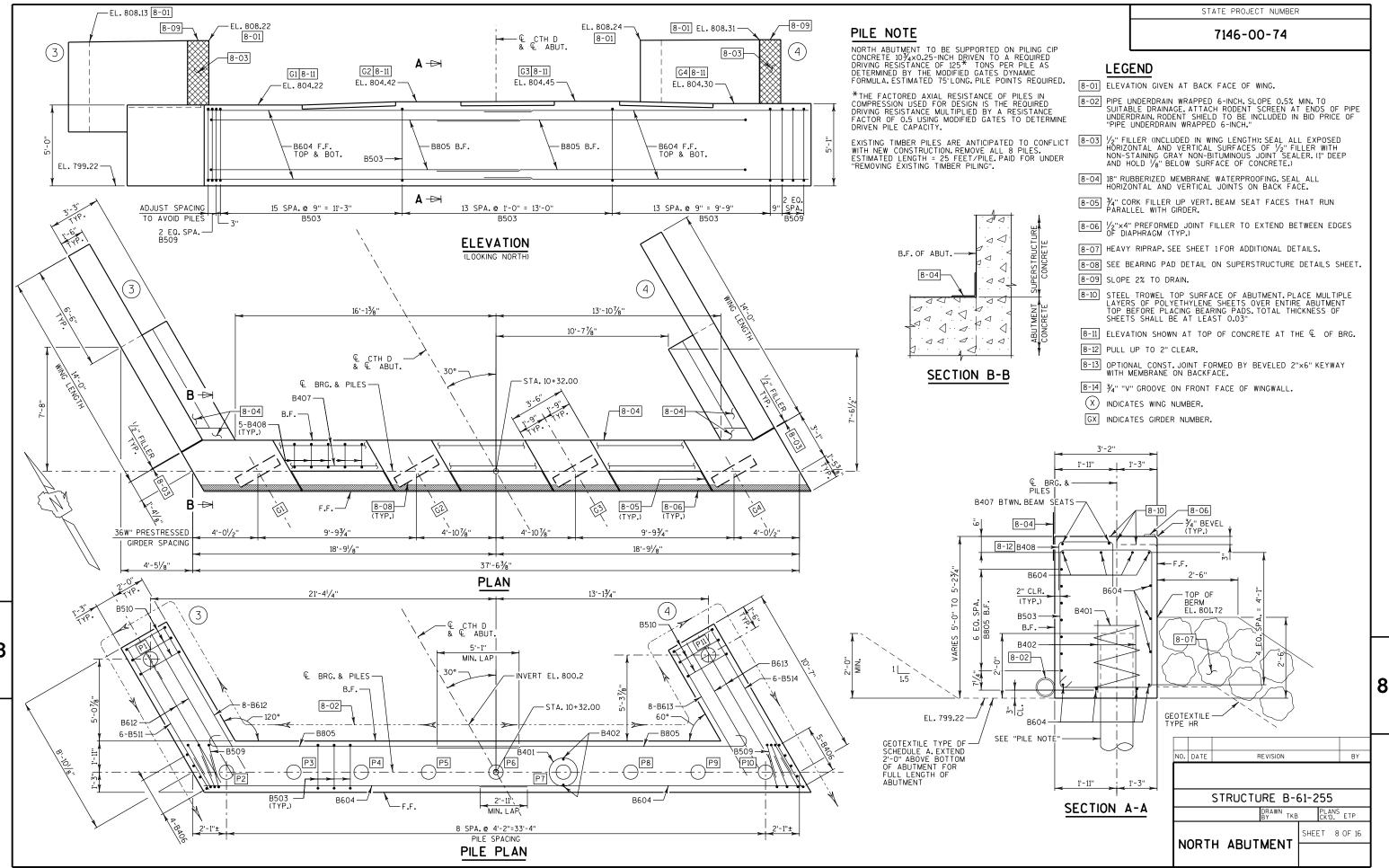
8

5-12

SECTION C-C

5-04

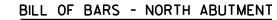
5-02



STATE PROJECT NUMBER 7146-00-74 8 SPA. AT 1-0" = 8'-0" B510 6 SPA. AT 1-0" = 6'-0" -B.F. / 8-B613 8-B612 — B.F. — 8-04 √8-04 3-B415 E.F. — 3-B415 E.F. 8-03 4-B416 — 1-B620 - 3-B416 1-B620 6-B416 — 1-B620 -- 6-B416 1-B620 5-B511 6-B514 -B406 - B406 8 SPA. AT 9" = 6'-0" 8 SPA. AT 9" = 6'-0" 9 SPA.@ 9" = 6'-9" 9 SPA.@ 9" = 6'-9" B617 B619 1'-53/8' 1'-53/8" WING LENGTH WING LENGTH PLAN-WING 3 PLAN-WING 4 2 SPA. AT 5'-10" = 11'-8" 2 SPA. AT 5'-10" = 11'-8" RAIL POST SPACING RAIL POST SPACING 9 SPA.@ 9" = 6'-9" 9 SPA.@ 9" = 6'-9" 8 SPA.@ 9" = 6'-0" ⊢ C B620 E.F. -B620 E.F. EL. 808.13 — 8-01 EL. 808.31 -—EL. 808.24 -EL. 808.22 — B416 F.F. в416 в**.**ғ. — B416 F.F.rightarrow D — B416 B.F. ightharpoons D 8-01 8-01 8-03 -PROPOSED GRADE PROPOSED -GRADE EL. 804.30 — LEVEL -EL.804.22 LEVEL 8-14 8-14 8-13 -BERM EL. 801.72 -B514 F.F. B613 B.F. & TOP BERM-EL. 801.72 B415 E.F. — EL. 802.64 LEVEL EL. 802.64 — LEVEL B510 B510 \bowtie D -B406 B406 rightarrow D EL. 799.22 -LEVEL — EL. 799.22 LEVEL 8 -**⊢ E** - [] ₩ C 8 SEE "PILE NOTE" -ON SHEET 8 SEE "PILE NOTE" — ON SHEET 8 ELEVATION-WING 3 **ELEVATION-WING 4** LEGEND NO. DATE REVISION BY 8-XX FOR SYMBOL DESCRIPTIONS SEE SHEET 8. STRUCTURE B-61-255 SHEET 9 OF 16 NORTH ABUTMENT

DETAILS-1

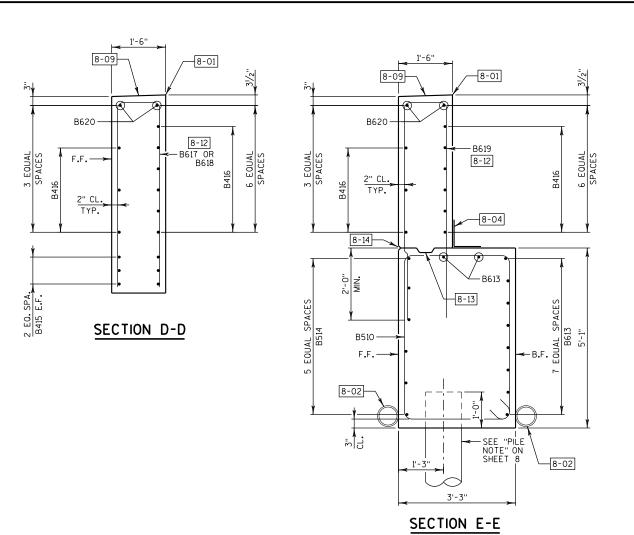
7146-00-74



DIMENSIONS IN BENDING DETAILS ARE OUT-TO-OUT OF BAR.

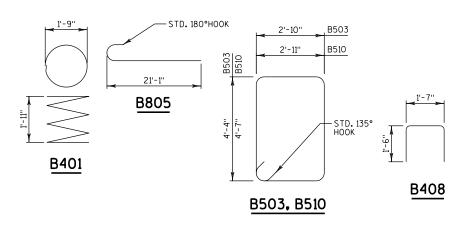
BAR MARK	NO. REQ'D	LENGTH	BERY	BAR SERIES	LOCATION		
NON-COATED BARS TOTAL WEIGHT = 2,600 LE							
B401	11	28'-0"	Х		BODY - AT PILES - 1 PER PILE	VERT.	
B402	22	2'-3"			BODY - AT PILES - 2 PER PILE	VERT.	
B503	42	15'-0"	Х		BODY - STIRRUPS	VERT.	
B604	22	20'-1"			BODY - F.F., TOP & BTM	HORIZ.	
B805	14	22'-0"	Х		BODY - B.F.	HORIZ.	
B406	9	4'-7"			BODY - ABUTMENT ENDS	VERT.	
B407	6	7'-10"			BODY - BTWN BEAM SEATS	HORIZ.	
B408	15	4'-5"	Х		BODY - BTWN BEAM SEATS	VERT.	
B509	12	9'-6"	Х		BODY - ABUTMENT ENDS	VERT.	
COATED B	ARS				TOTAL WEIGHT =	1,680 LBS	
B510	16	15'-8"	Х		WINGS 3 & 4 - STIRRUPS	VERT.	
B511	6	9'-11"			WING 3 - F.F.	HORIZ.	
B612	10	10'-4"			WING 3 - TOP & B.F.	HORIZ.	
B613	10	9'-5"			WING 4 - TOP & B.F.	HORIZ.	
B514	6	11'-6"			WING 4 - F.F.	HORIZ.	
B415	12	7'-9"			WINGS 3 & 4 - OVERHANG	HORIZ.	
B416	18	13'-8"			WINGS 3 & 4	HORIZ.	
B617	9	11'-0"	Х		WING 3 - OVERHANG	VERT.	
B618	9	11'-2"	Х		WING 4 - OVERHANG	VERT.	
B619	20	12'-6"	Х		WINGS 3 & 4 - TOP	VERT.	
B620	4	13'-8"			WINGS 3 & 4 - TOP	HORIZ.	

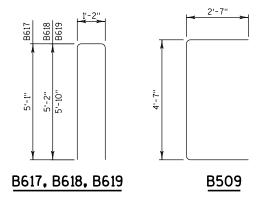
THE FIRST DIGIT OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.



LEGEND

8-XX FOR SYMBOL DESCRIPTIONS SEE SHEET 8.





8

8-01

8-12

8-04

— SEE "PILE NOTE" ON SHEET 8

8-02

8-13

SECTION C-C

B620 -

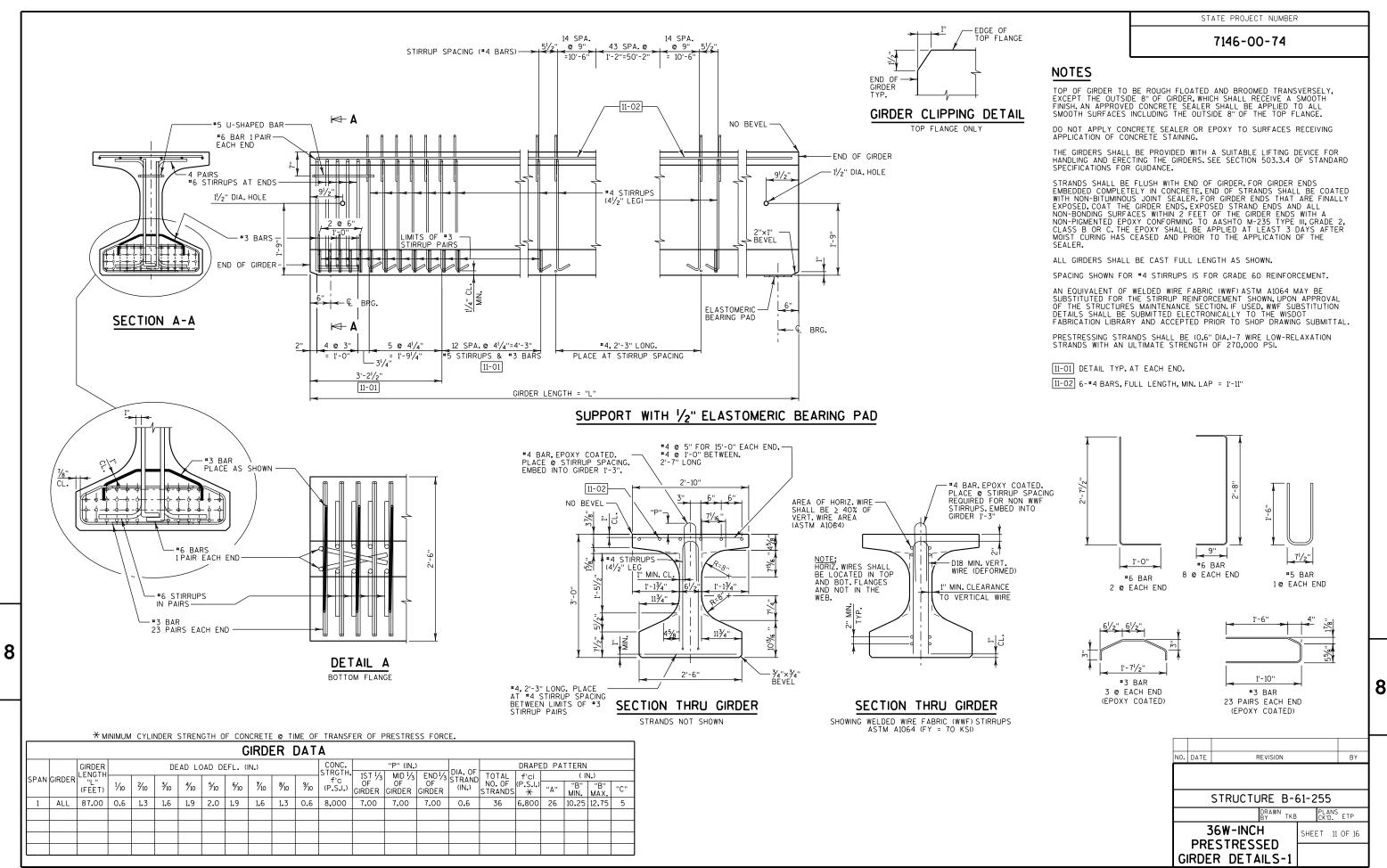
8-14

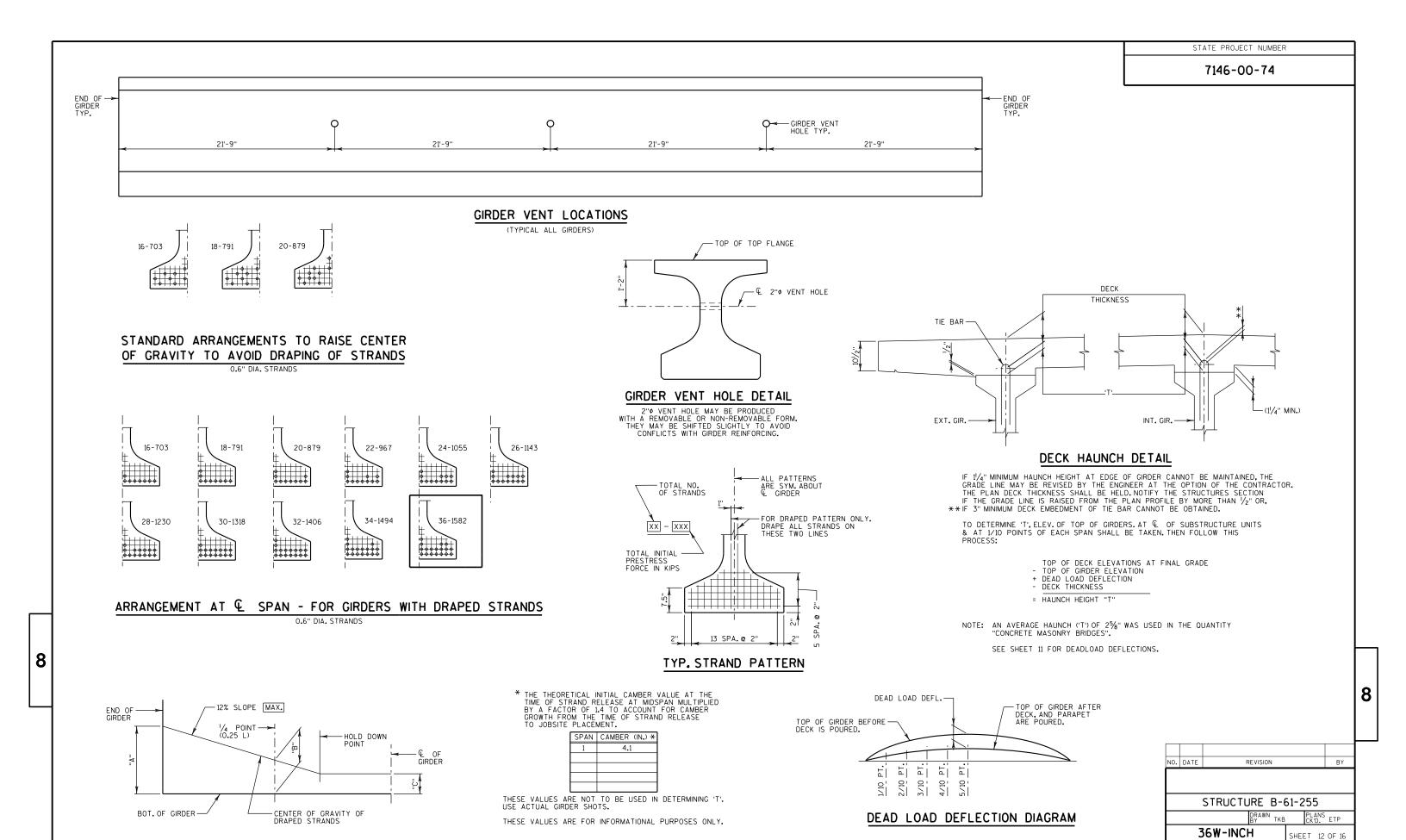
B510

F.F.

8-02

8





PRESTRESSED

7146-00-74

LEGEND

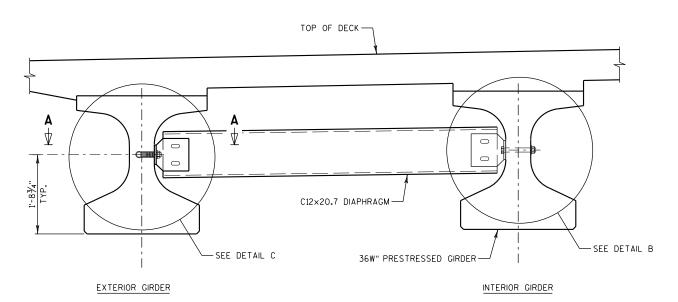
ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-61-255", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

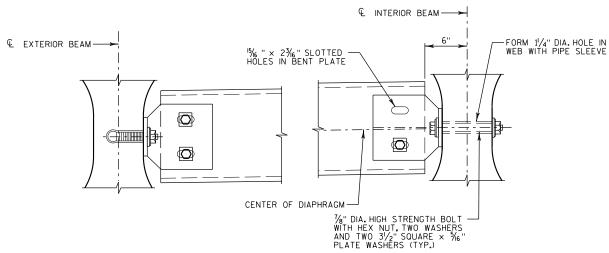
ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36.

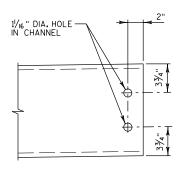
ALL DIAPHRAGM MATERIAL INCLUDING BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AFTER FABRICATION.

STEEL DIAPHRAGM TO CONCRETE WEB CONNECTION SHALL BE SNUG-TIGHT PLUS $^{1}\!/_{\!4}$ TURN, UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS FOR WEB CONNECTION SHALL MEET THE REQUIREMENTS FOR ASTM A325 OR ASTM A449.



PART TRANSVERSE SECTION AT DIAPHRAGM

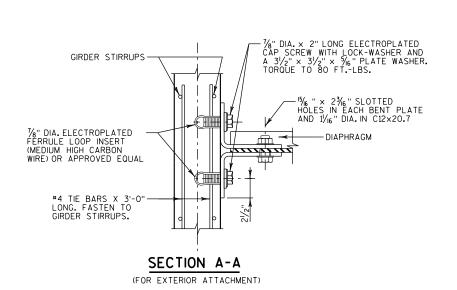


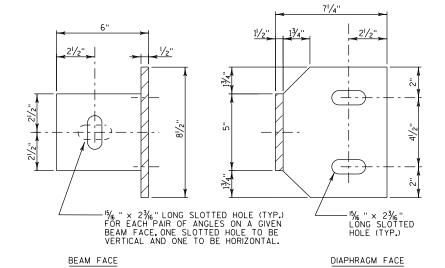


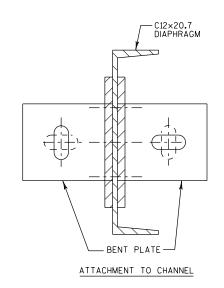
TYPICAL HOLES IN DIAPHRAGM

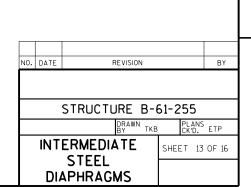
DETAIL C

DETAIL B







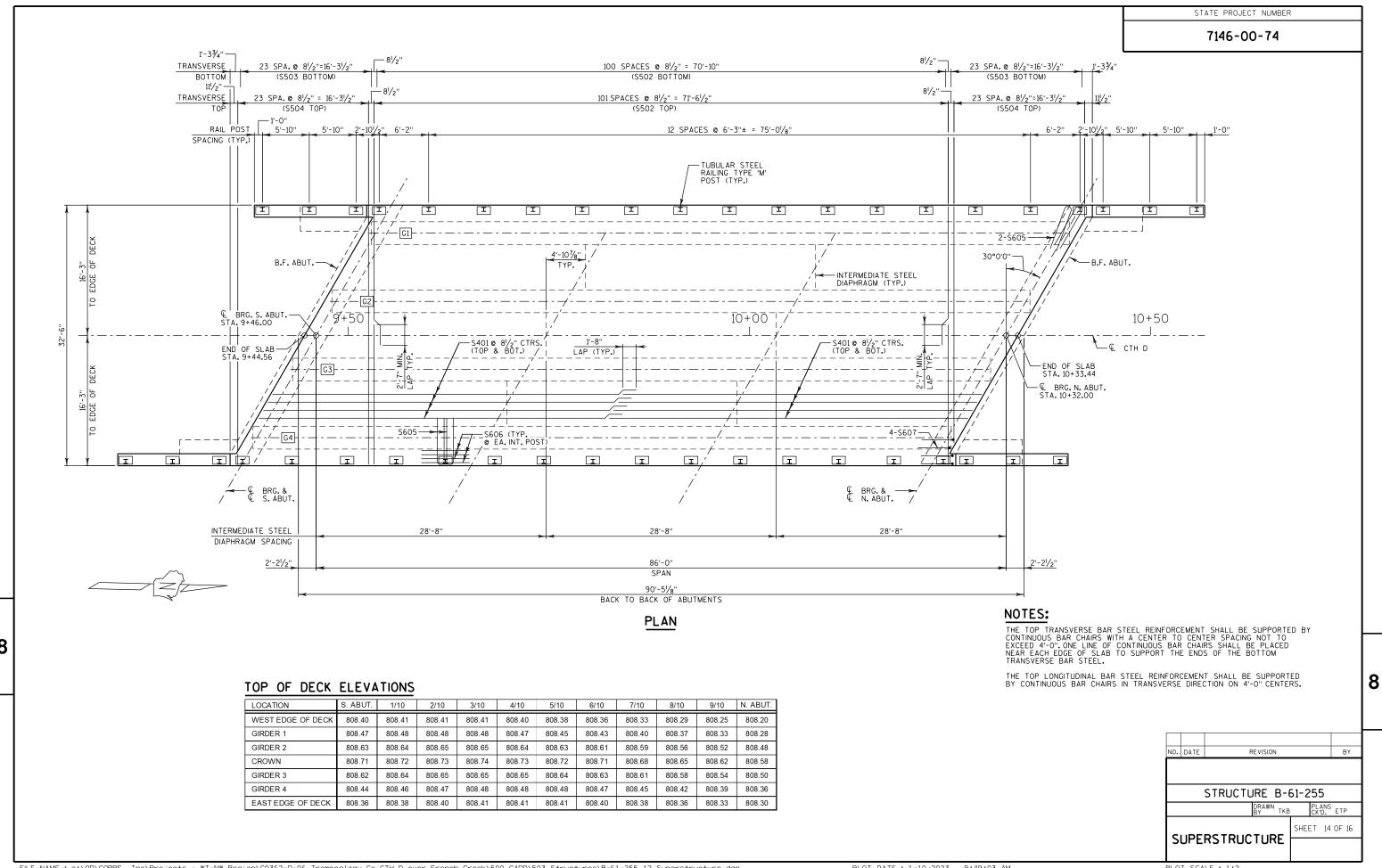


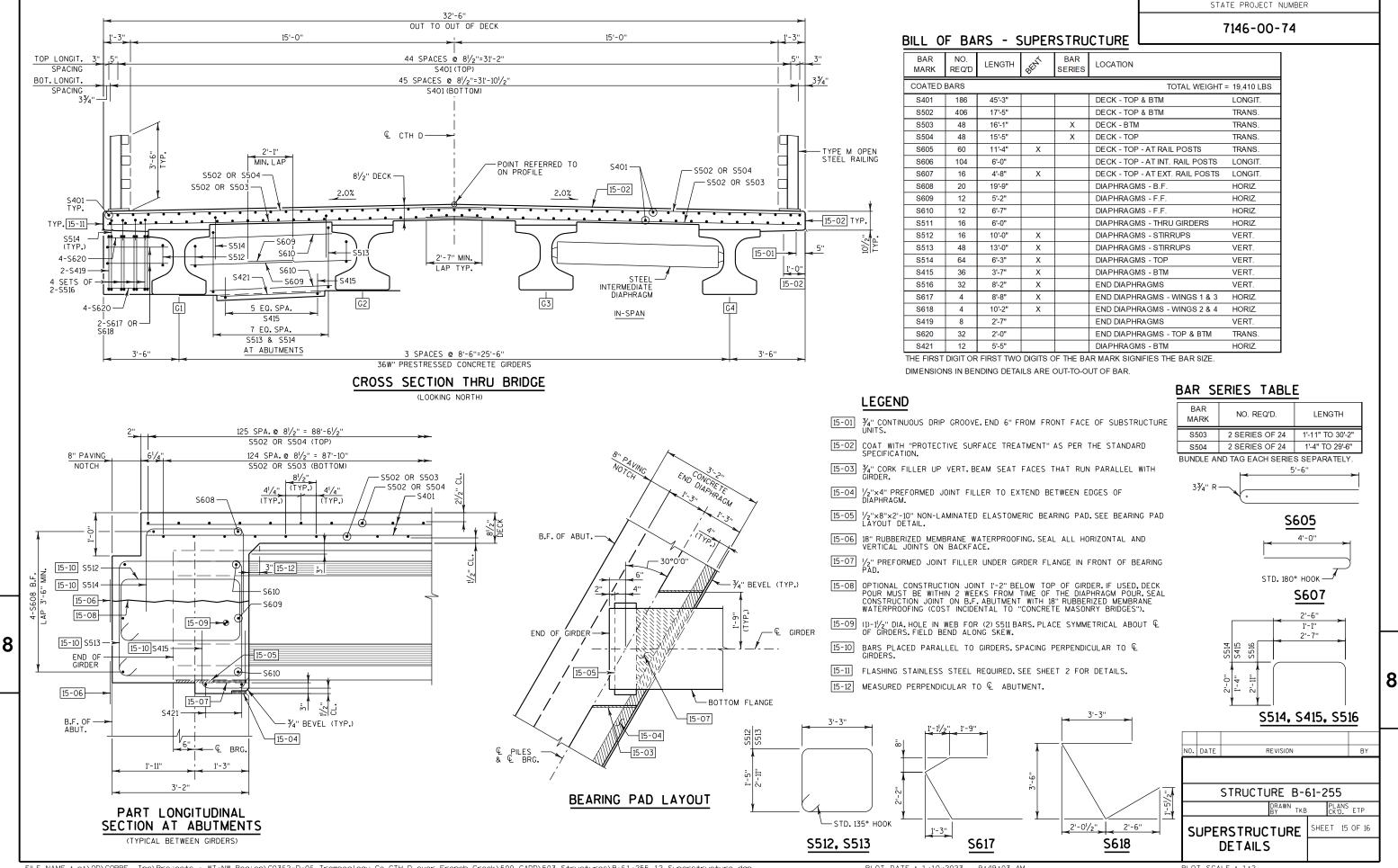
8

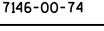
FILE NAME: c:±0D±CORRE, Inc±Projects - Wi-NW Region±C0362-D-06_Trempealeau Co_CTH D over French Creek±500_CADD±503_Structures±B-61-255_10-girder 36.dgn

PLOT DATE: 1/10/2023

PLOT SCALE : 2.00000 '/ ft.







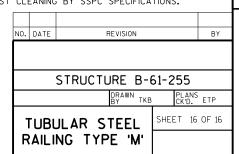
- [16-01] W6 \times 25 WITH $1/_8$ " X $1/_2$ " HORIZ. SLOTS ON EACH SIDE OF POST FOR BOLT [16-06]. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.
- $\fbox{16-02}$ Plate 1½" \times 11¾" \times 11¾" \times 11-8" With 1½6" dia.oversized holes for anchor bolts $\fbox{16-03}$. Weld to $\fbox{16-01}$ as shown.
- ASTM A449 1/8" DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REO'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE [16-02]. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1'-9" LONG IN ABUTMENT WINGS. USE 10 \(\frac{3}{4}\)" LONG AT ALL OTHER LOCATIONS. (AN EQUIVALENT THREADED ROD WITH NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS IF REO'D. FOR CONSTRUCTABILITY.)
- $\overline{16-04}$ %" \times 11" \times 1'-8" ANCHOR PLATE (GALVANIZED) WITH 1%" DIA. HOLES FOR ANCHOR BOLTS $\overline{16-03}$.
- 16-05 TS 5 x 4 x 0.25 STRUCTURAL TUBING. ATTACH TO 16-01 WITH 16-06
- 16-5A TS 5 x 5 x 0.25 STRUCTURAL TUBING. ATTACH TO 16-01 WITH 16-06
- % " Dia. A325 slotted round head bolt with nut, $\%_6$ " x 1% " x 1% " min. Washer, and lock washer (2 reo'd. at each rail to post location.)
- $1\!/2$ " THK. BACK-UP PLATE WITH 2 $7\!/8$ " X $1\!/2$ " THREADED SHOP WELDED STUDS (16-12). BOLT TO RAIL AS SHOWN IN DETAIL. REQUIRED AT THRIE BEAM GUARD RAIL ATTACHMENTS ONLY. PLACE SYMMETRICALLY ABOUT TUBES 16-5A).
- $\fbox{16-08}$ 1" DIA. HOLES IN PLATE $\fbox{16-07}$ & TUBES $\fbox{16-5A}$ FOR 7_8 " DIA. A325 BOLTS WITH HEX NUTS AND WASHERS. 6 HOLES IN TUBES AND PLATE $\fbox{16-07}$.
- 16-09 SPLICE SLEEVE FABRICATED FROM 1/4" PLATE. PROVIDE "SLIDING FIT".
- 16-10 38" X 358" X 2'-4" PLATE. 2 PER RAIL. USED IN 16-05 & 16-5A
- 16-10A 36" X 25" X 2^{1} -4" PLATE USED IN 16-0S 36" X 35" X 2^{1} -4" PLATE USED IN 16-5A 2 PER RAIL
- 7_8 " ϕ A325 ROUND HEAD B<u>OLT WI</u>TH NUT, WASHER, AND LOCK WASHER. USE $^{15}\!\!/_{6}$ " X $^{12}\!\!/_{4}$ " LONGIT. SLOTTED HOLES IN PLATE $\overline{16-10A}$ AT FIELD JOINTS AND $^{15}\!\!/_{6}$ " X $^{22}\!\!/_{4}$ " MIN. LONGIT. SLOTTED HOLES AT EXP. JOINTS IN PLATE $\overline{16-10A}$. PROVIDE $^{15}\!\!/_{6}$ " DIA. ROUND HOLES IN TUBES $\overline{16-05}$ AND $\overline{16-5A}$. 16-11
- 16-12 $\frac{7}{8}$ " DIA. X $\frac{1}{2}$ " LONG THREADED SHOP WELDED STUDS (2 REQ'D).
- $3_6^{\prime\prime}$ x 8" x 1'-6" plate.bolt to rail as shown in detail.reo'd.at thrie beam guard rail attachments only.place sym.about tubes $\overline{16-54}$.
- 16-14 %" DIA. X 2" LONG A325 HEX BOLT WITH NUT AND WASHER (5 REQ'D.).
- 1" ϕ holes in tubes $\overline{[6-5A]}$ for 7_8 " dia a325 round head bolt with nut, washer and lock washer (4 reo'd.). 4 holes in tubes. 16-15

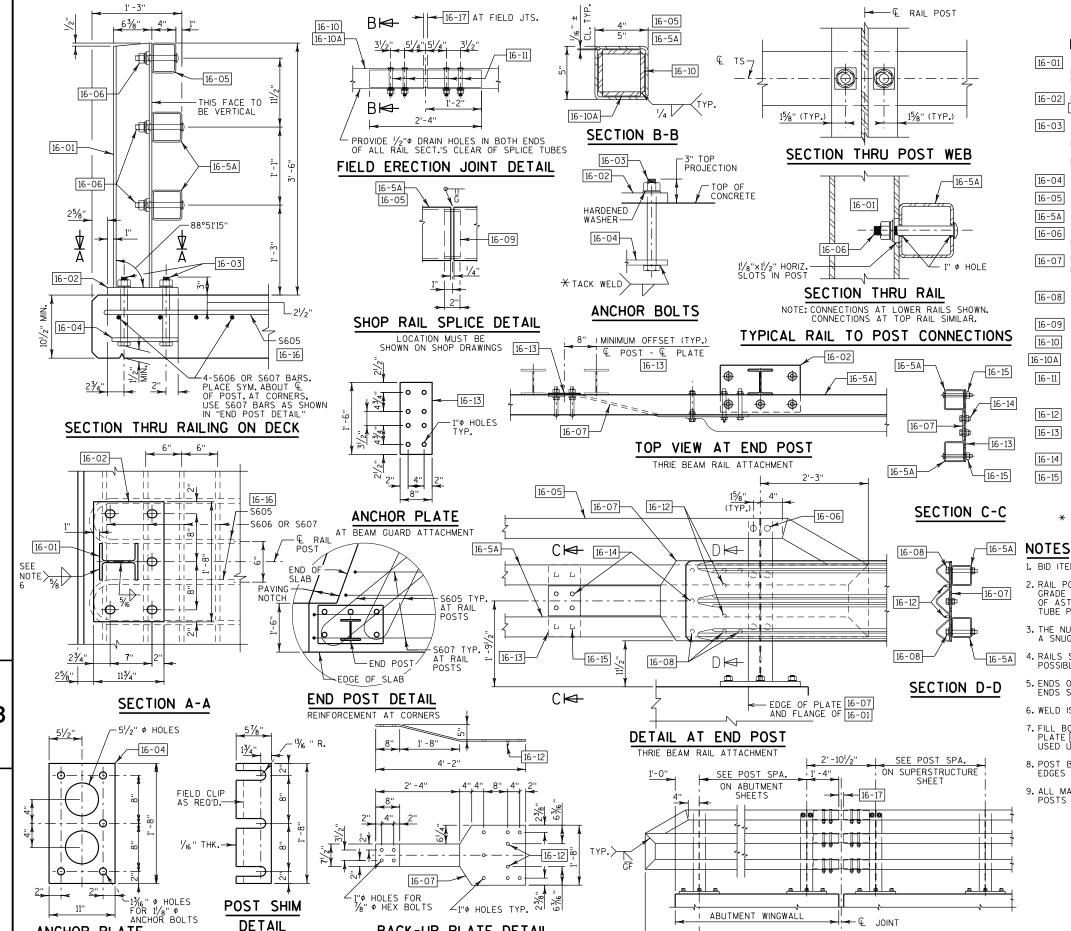
16-16 TIE TO TOP MAT OF STEEL. 16-17 1/4" TO 3/4".

* ANCHOR BOLT ASSEMBLY MAY BE TACK WELDED, EITHER IN THE SHOP, OR IN THE FIELD AFTER THE ANCHOR PLATE IS PLACED.

LEGEND

- 1. BID ITEM SHALL BE "RAILING TUBULAR TYPE M" WHICH INCLUDES ALL ITEMS SHOWN.
- 2. RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED FY = 50 ksi. ANCHOR PLATES, AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 36.
- 3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL $\frac{1}{8}$ TURN.
- 4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE. RAILS SHALL BE SPLICED IN A PANEL OVER EXPANSION JOINTS.
- 5. ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH.
- 6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING.
- 7. FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE 16-02 AND CAULK AROUND PERIMETER OF PLATE 16-02 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REO'D. FOR ALIGNMENT.
- 8. POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.
- 9. ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING BY SSPC SPECIFICATIONS.





BACK-UP PLATE DETAIL

AT BEAM GUARD ATTACHMENT

ANCHOR PLATE

AT RAIL TO DECK CONNECTION

PART ELEVATION OF RAILING

DIVISION -- CTH D

I I		1051 (05)		111655	45NTAL VOL 100 (1111)	ILLOTTED'		01144111 1 = 111	01. (0)()
	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)				
DISTANCE	СИТ	SALVAGED/UNUSABLE	FILL	сит	SALVAGED/UNUSABLE	FILL	CUT	EXPANDED FILL	MASS ORDINATE
		PAVEMENT MATERIAL						1.30	
				NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
0.00	4.42	0.00	1.81	0	0	0	0	0	0
28.00	4.44	0.00	2.99	5	0	2	5	3	2
25.00	4.54	0.00	8.53	4	0	5	9	9	0
25.00	4.40	0.00	19.89	4	0	13	13	26	-13
25.00	3.96	0.00	27.30	4	0	22	17	55	-38
25.00	4.60	0.00	29.40	4	0	26	21	88	-67
19.52	6.15	0.00	26.27	4	0	20	25	114	-89
5.48	6.94	0.00	22.75	1	0	5	26	121	-95
19.52	13.67	0.00	21.84	7	0	16	33	142	-109
4.53	13.05	0.00	19.54	2	0	3	35	146	-111
23.59	12.03	0.00	12.74	11	0	14	46	164	-118
1.40	11.69	0.00	8.74	1	0	1	47	165	-118
28.13	10.80	0.00	7.49	12	0	8	59	176	-117
16.83	11.17	11.00	5.09	7	3	4	66	181	-118
6.00	41.15	11.00	2.00	6	2	1	72	182	-115
22.04	40.48	11.00	2.11	33	9	2	105	185	-94
0.00	39.03	11.00	0.00	0	0	0	105	185	-94
15.00	39.08	11.00	2.12	22	6	1	127	186	-79
25.00	12.49	0.00	1.76	24	5	2	151	189	-63
16.46	34.60	0.00	28.55	14	0	9	165	200	-60
17.02	33.33	0.00	43.13	21	0	23	186	230	-69
7.98	33.19	0.00	52.27	10	0	14	196	248	-77
17.02	30.01	0.00	77.36	20	0	41	216	302	-111
7.98	28.38	0.00	84.28	9	0	24	225	333	-133
17.02	26.05	0.00	86.24	17	0	54	242	403	-186
16.52	26.03	0.00	79.53	16	0	51	258	469	-236
25.00	25.87	0.00	67.95	24	0	68	282	558	-301
25.00	23.01	0.00	59.27	23	0	59	305	634	-354
25.00	19.44	0.00	54.97	20	0	53	325	703	-403
25.00	16.77	0.00	44.90	17	0	46	342	763	-446
25.00	14.25	0.00	34.99	14	0	37	356	811	-480
15.00	4.23	0.00	10.12	5	0	13	361	828	-492
	0.00 28.00 25.00 25.00 25.00 25.00 19.52 5.48 19.52 4.53 23.59 1.40 28.13 16.83 6.00 22.04 0.00 15.00 25.00 16.46 17.02 7.98 17.02 7.98 17.02 7.98 17.02 16.52 25.00 25.00 25.00 25.00 25.00 25.00	DISTANCE CUT 0.00 4.42 28.00 4.44 25.00 4.54 25.00 4.60 19.52 6.15 5.48 6.94 19.52 13.67 4.53 13.05 23.59 12.03 1.40 11.69 28.13 10.80 16.83 11.17 6.00 41.15 22.04 40.48 0.00 39.03 15.00 39.08 25.00 12.49 16.46 34.60 17.02 33.33 7.98 33.19 17.02 30.01 7.98 28.38 17.02 26.05 16.52 26.03 25.00 25.87 25.00 25.87 25.00 19.44 25.00 16.77 25.00 14.25	DISTANCE CUT SALVAGED/UNUSABLE PAVEMENT MATERIAL 0.00 4.42 0.00 28.00 4.44 0.00 25.00 4.54 0.00 25.00 3.96 0.00 25.00 4.60 0.00 25.00 4.60 0.00 19.52 6.15 0.00 5.48 6.94 0.00 4.53 13.05 0.00 23.59 12.03 0.00 1.40 11.69 0.00 28.13 10.80 0.00 16.83 11.17 11.00 22.04 40.48 11.00 22.04 40.48 11.00 25.00 39.08 11.00 25.00 12.49 0.00 15.00 39.08 11.00 25.00 12.49 0.00 16.46 34.60 0.00 17.02 30.01 0.00 7.98 33.19 0.00 <t< td=""><td>DISTANCE CUT SALVAGED/UNUSABLE PAVEMENT MATERIAL FILL 0.00 4.42 0.00 1.81 28.00 4.44 0.00 2.99 25.00 4.54 0.00 19.89 25.00 3.96 0.00 27.30 25.00 4.60 0.00 29.40 19.52 6.15 0.00 26.27 5.48 6.94 0.00 21.84 4.53 13.67 0.00 19.54 23.59 12.03 0.00 12.74 1.40 11.69 0.00 8.74 28.13 10.80 0.00 7.49 16.83 11.17 11.00 2.00 22.04 40.48 11.00 2.00 25.00 39.08 11.00 2.12 25.00 12.49 0.00 1.76 16.46 34.60 0.00 28.55 17.02 30.01 0.00 77.36 7.98 28.38<</td><td> NOTE 1</td><td> DISTANCE CUT SALVAGED/UNUSABLE PAVEMENT MATERIAL FILL CUT SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 1 NOTE 2 </td><td> Note</td><td> Note Column</td><td> Note Pavement Material Fill Pavement Material Fill Pavement Material Fill Pavement Material Pavement Material Pavement Material Pavement Material Pavement Material Note 1 Note 2 Note 3 Note 1 Note 3 Note 3 Note 1 Note 3 No</td></t<>	DISTANCE CUT SALVAGED/UNUSABLE PAVEMENT MATERIAL FILL 0.00 4.42 0.00 1.81 28.00 4.44 0.00 2.99 25.00 4.54 0.00 19.89 25.00 3.96 0.00 27.30 25.00 4.60 0.00 29.40 19.52 6.15 0.00 26.27 5.48 6.94 0.00 21.84 4.53 13.67 0.00 19.54 23.59 12.03 0.00 12.74 1.40 11.69 0.00 8.74 28.13 10.80 0.00 7.49 16.83 11.17 11.00 2.00 22.04 40.48 11.00 2.00 25.00 39.08 11.00 2.12 25.00 12.49 0.00 1.76 16.46 34.60 0.00 28.55 17.02 30.01 0.00 77.36 7.98 28.38<	NOTE 1	DISTANCE CUT SALVAGED/UNUSABLE PAVEMENT MATERIAL FILL CUT SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 1 NOTE 2	Note	Note Column	Note Pavement Material Fill Pavement Material Fill Pavement Material Fill Pavement Material Pavement Material Pavement Material Pavement Material Pavement Material Note 1 Note 2 Note 3 Note 1 Note 3 Note 3 Note 1 Note 3 No

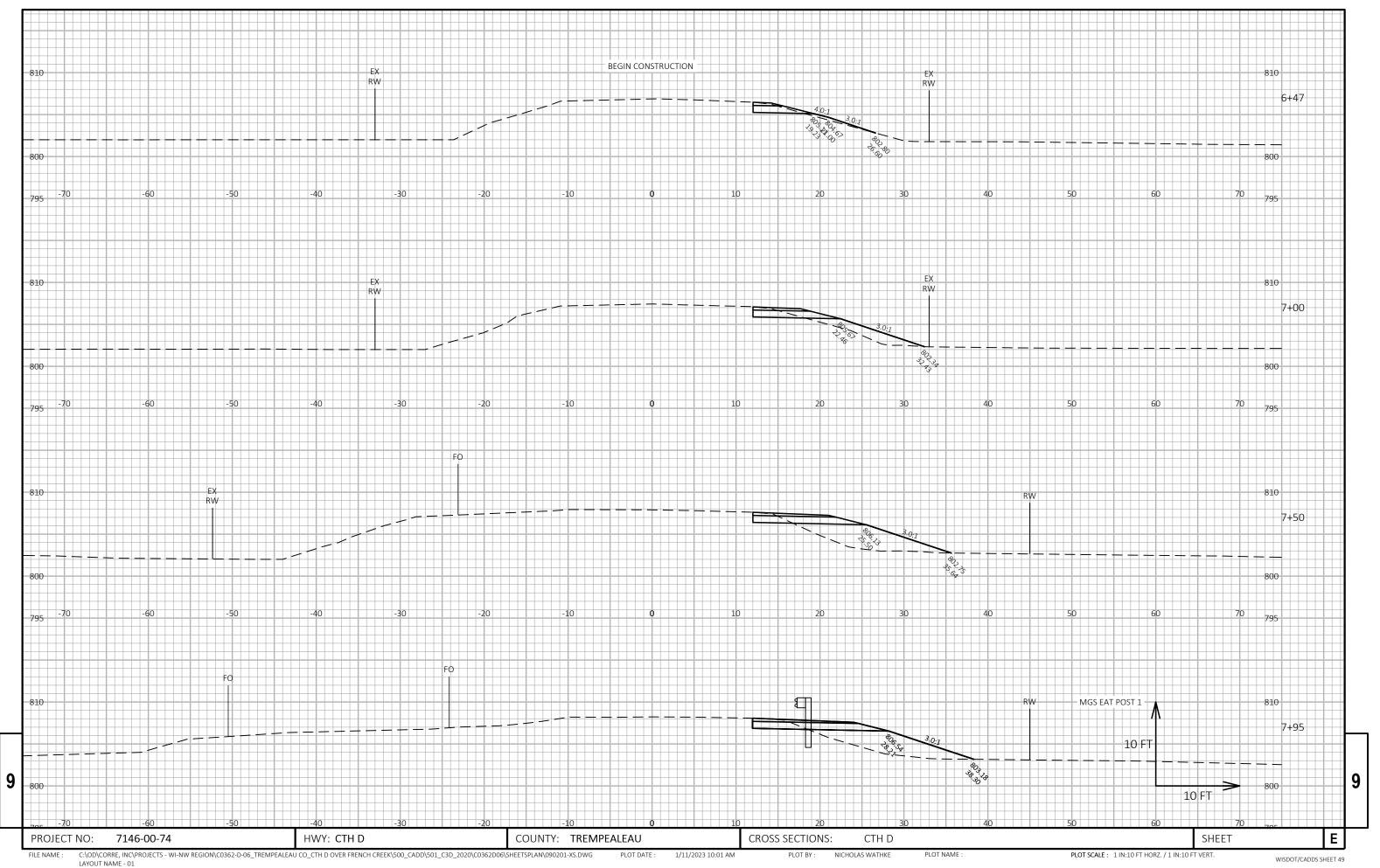
Notes:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	[CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]

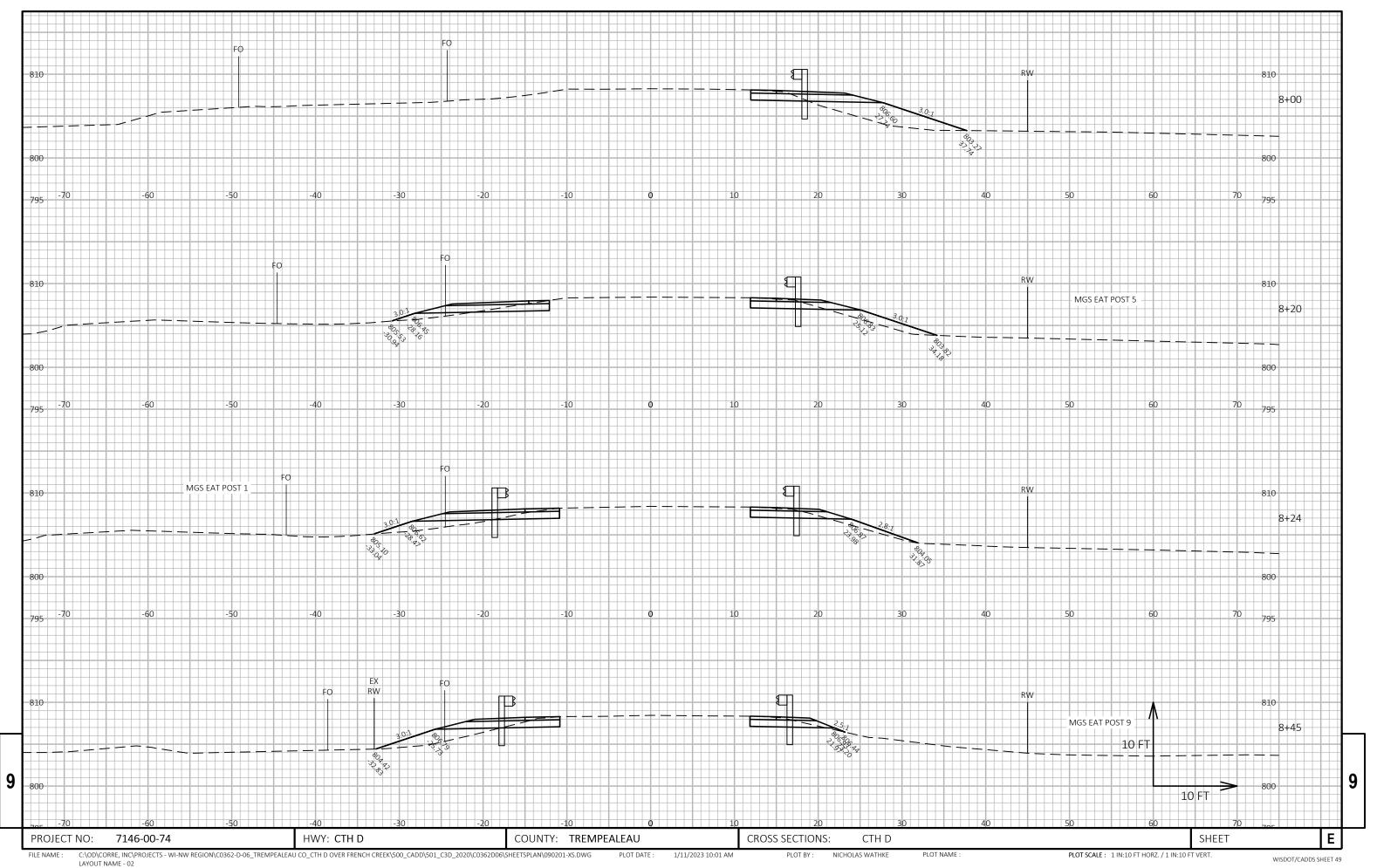
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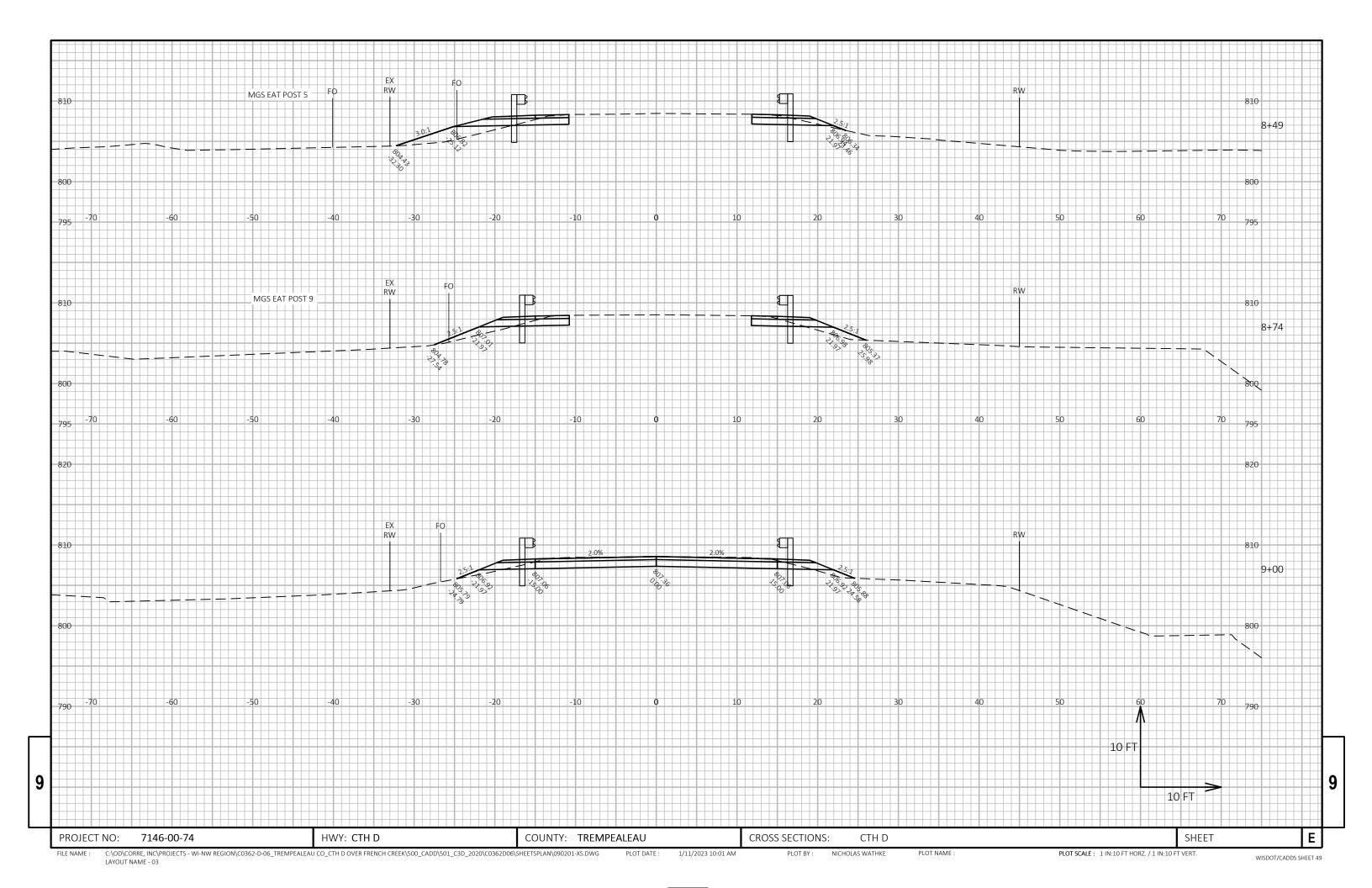
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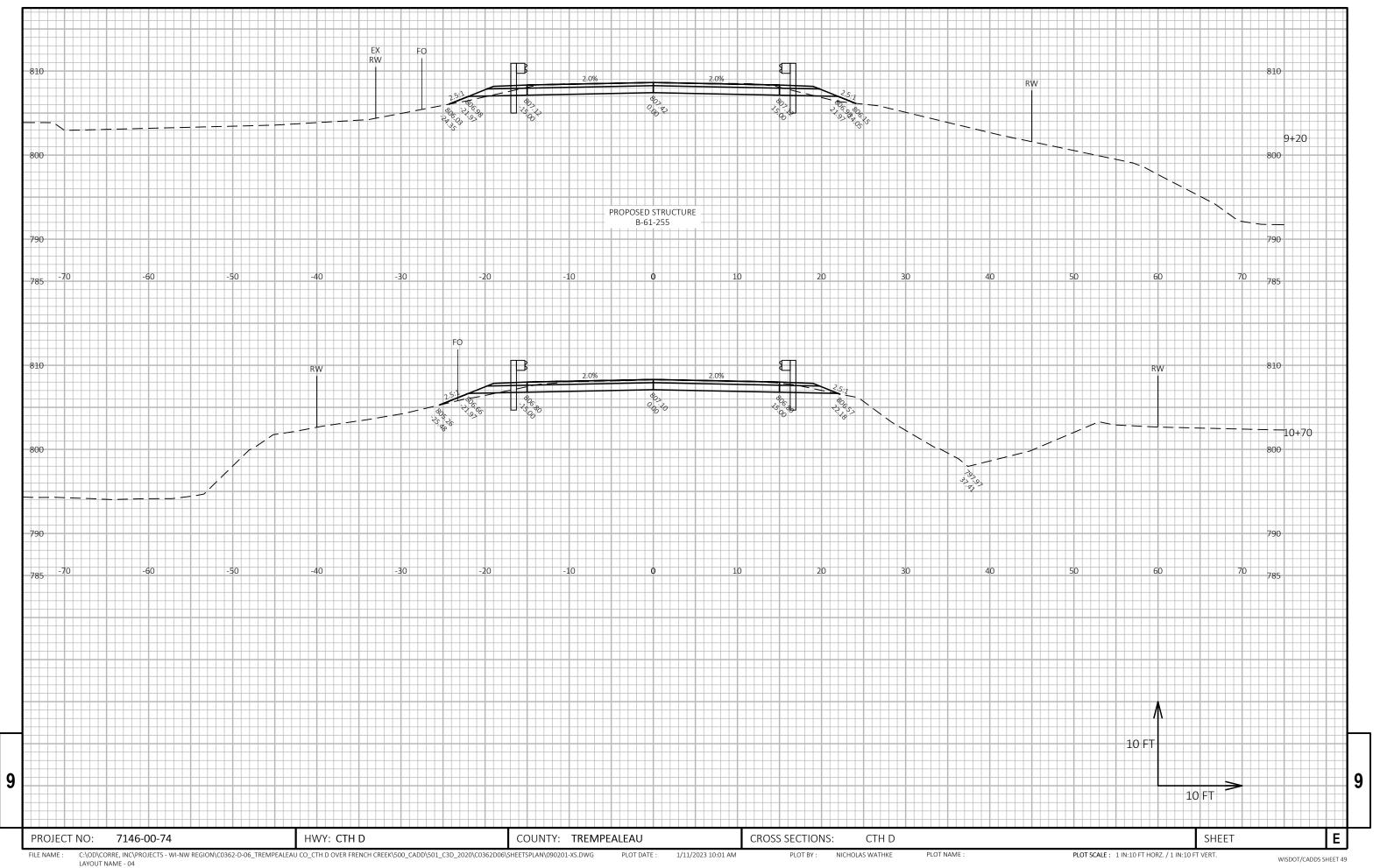
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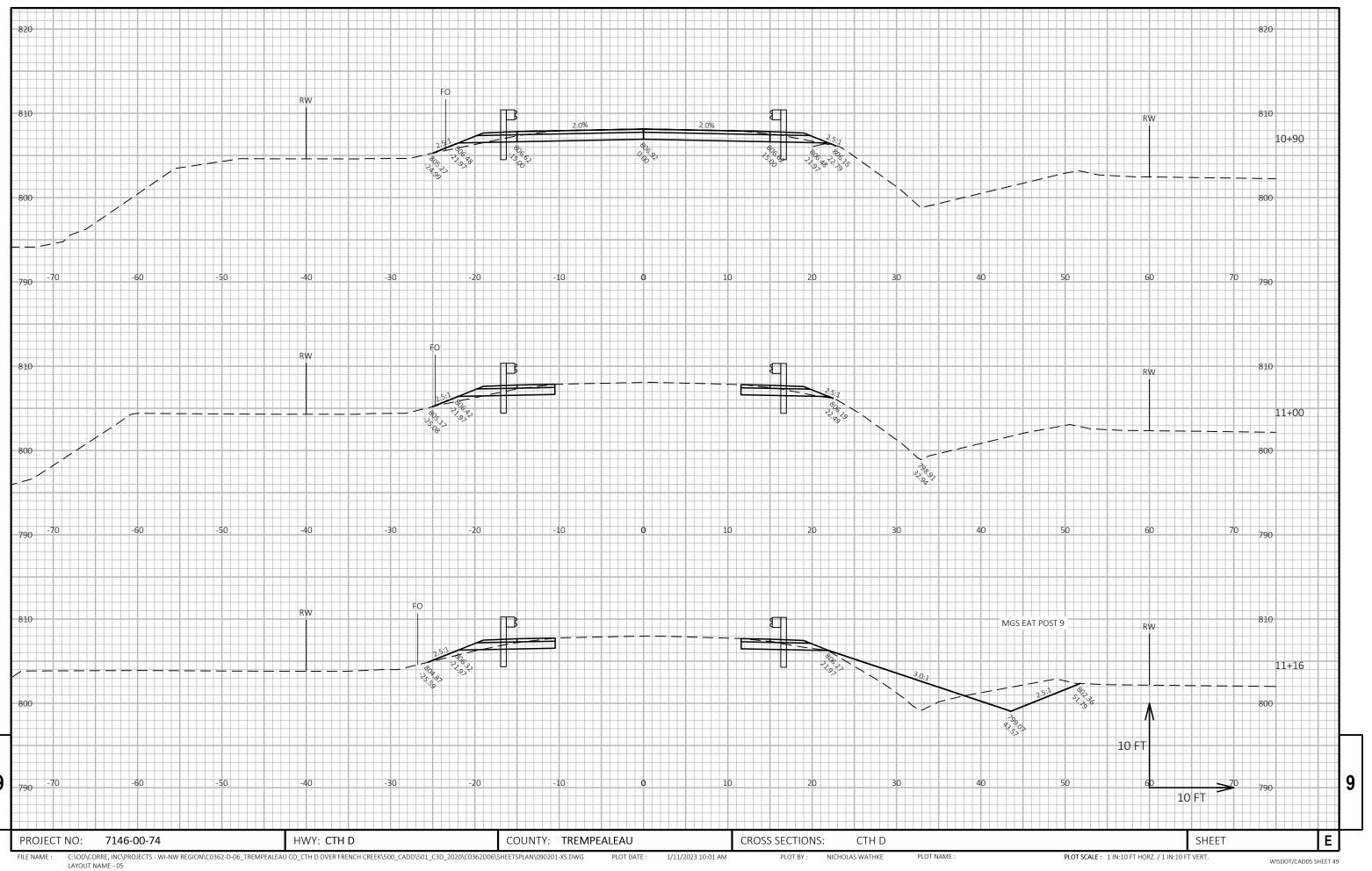


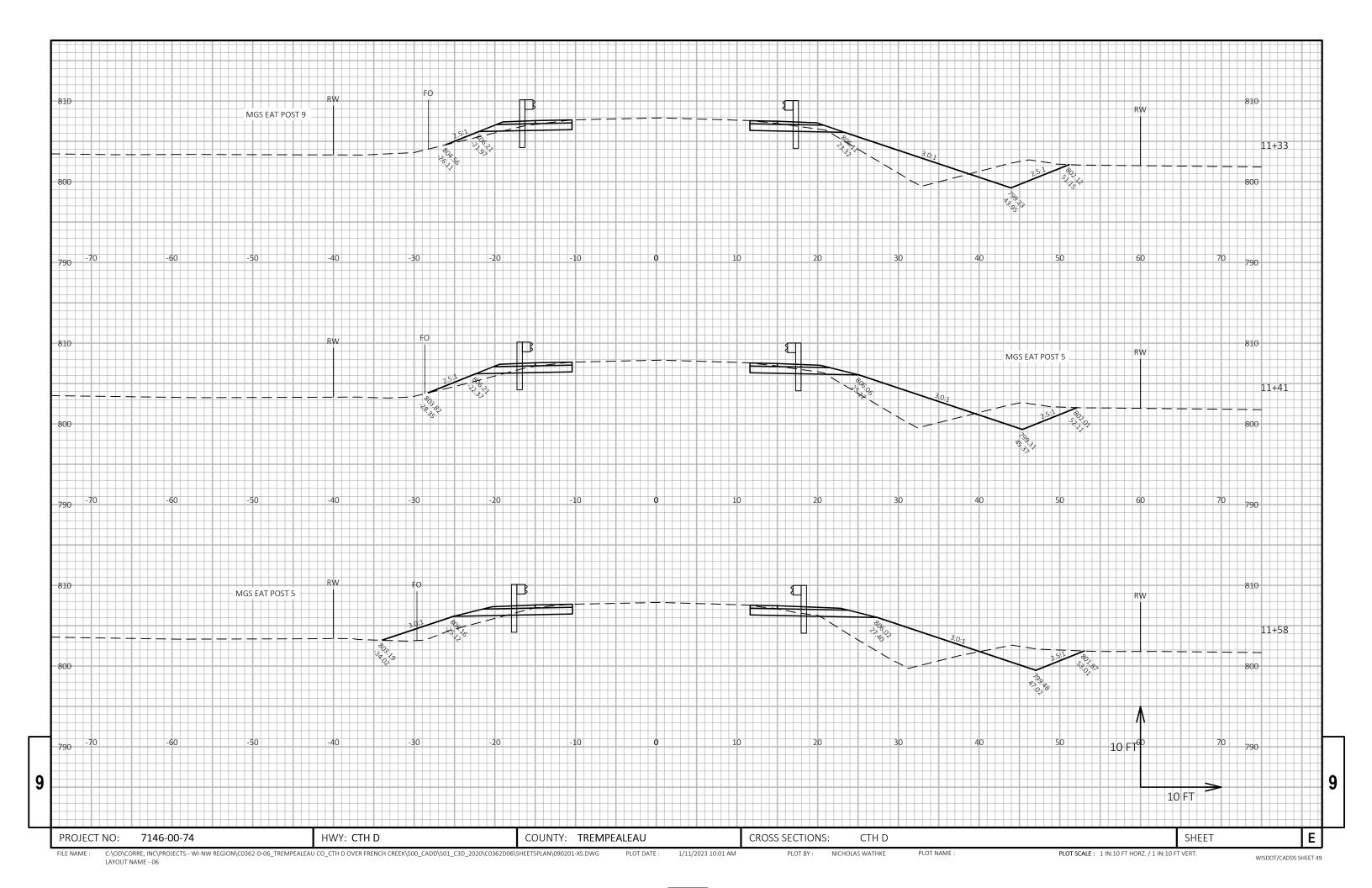


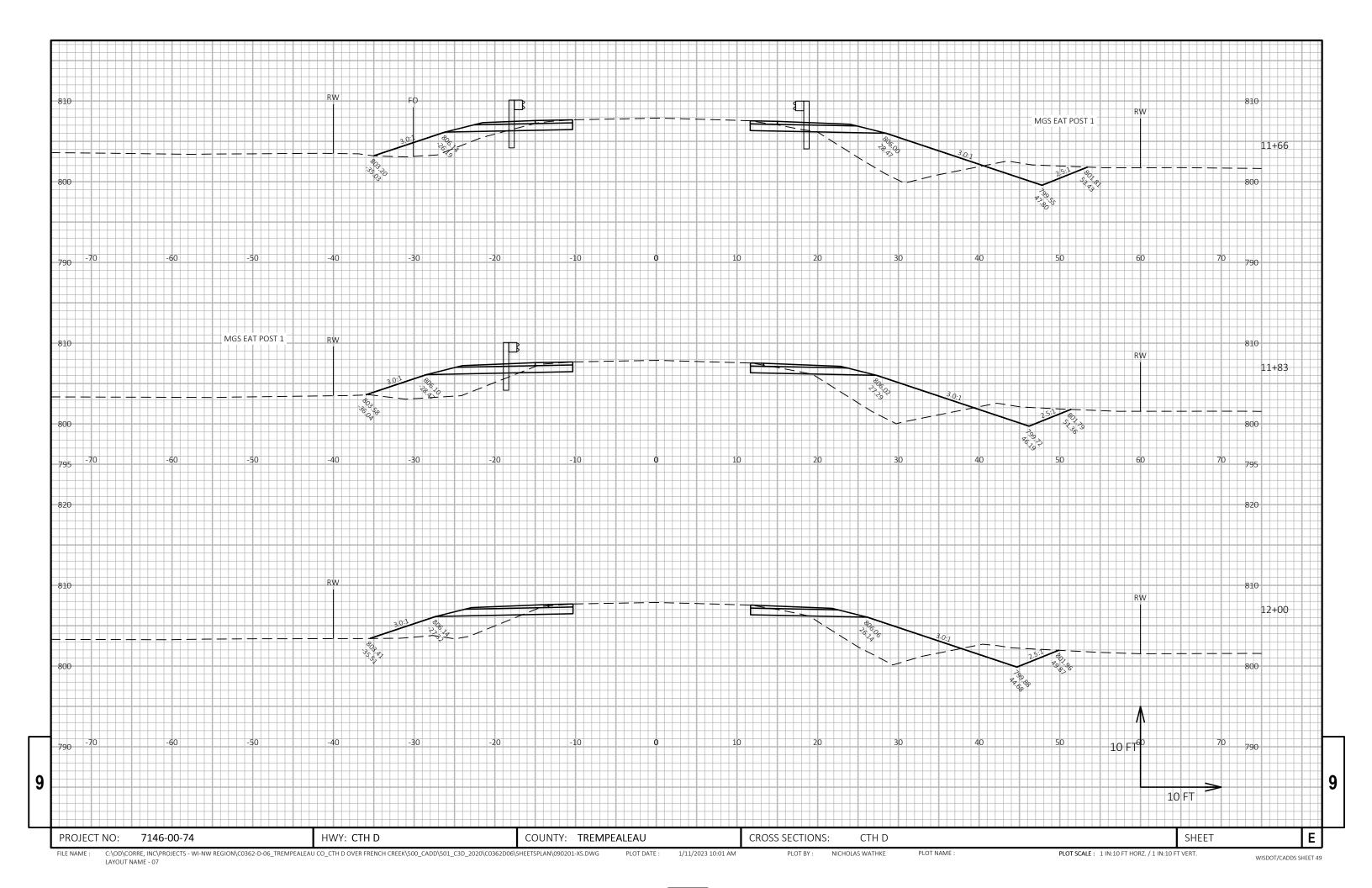
WISDOT/CADDS SHEET 49

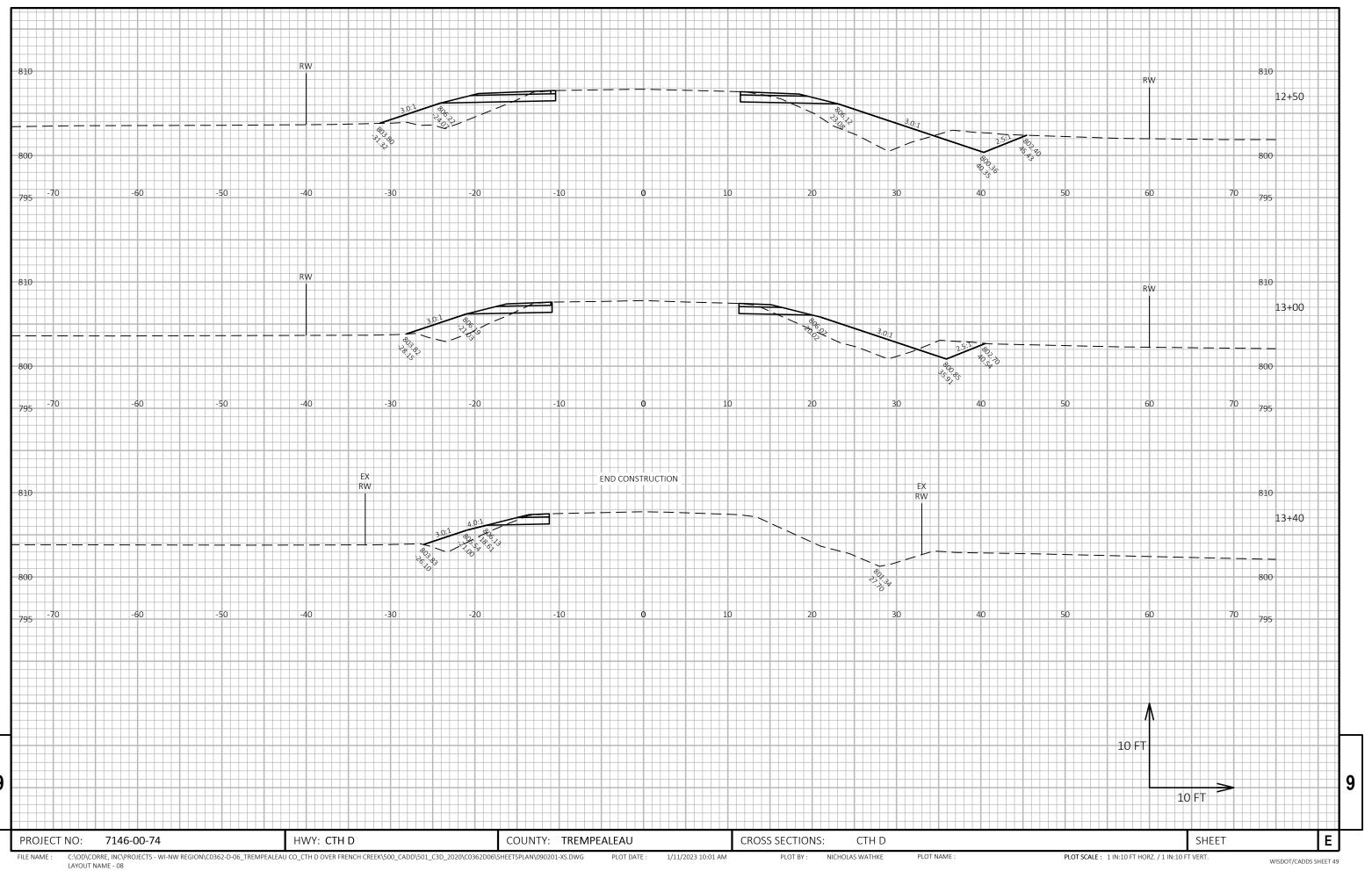




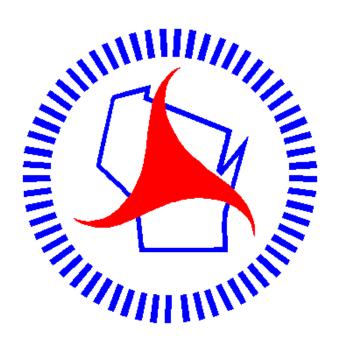








Notes



Wisconsin Department of Transportation

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