FEDERAL PROJECT MARCH 2021 SUP STATE PROJECT STATE OF WISCONSIN CONTRACT ORDER OF SHEETS 8595-00-71 WISC 2021242 **DEPARTMENT OF TRANSPORTATION** Typical Sections and Details N C Estimate of Quantities PLAN OF PROPOSED IMPROVEMENT Right of Way Plat Section No. Plan and Profile Section No. Standard Detail Drawings STH 27 - SHELDON 595-00-71 Structure Plans Computer Earthwork Data Section No. **LITTLE JUMP RIVER BRIDGE B-54-0138** Section No. CTH D TOTAL SHEETS = **RUSK COUNTY** STATE PROJECT NUMBER 8595-00-71 **RUSK COUNTY** GROW **END PROJECT** PROJECT LOCATION ACCEPTED FOR STA 14+75.00 C1. Y = 505,154,37 RUSK COUNTY X = 841,126.46DESIGN DESIGNATION Jump Skunk A.A.D.T. 2015 = 527 A.A.D.T. 2035 D.H.V. = N/A ORIGINAL PLANS PREPARED BY HOMESTEAD D.D. = 50/50 T-33-N **BEGIN PROJECT** = 10% MAX **DESIGN SPEED** = 55 MPH STA 12+75.00 = 180.000 ESALS Y = 505,204.32X = 840,932.79FRIBERG E-43328 **CONVENTIONAL SYMBOLS** SBINDER **PROFILE** PLAN Ci. GRADE LINE CORPORATE LIMITS 1////// ORIGINAL GROUND MARSHALLI PROPERTY LINE MARSH OR ROCK PROFILE Sheldon LOT LINE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH VV STATE OF WISCONSIN **EXISTING RIGHT OF WAY** GRADE ELEVATION BIRCH R PROPOSED OR NEW R/W LINE **DEPARTMENT OF TRANSPORTATION** (27 0 CULVERT (Profile View) SLOPE INTERCEPT UTILITIES REFERENCE LINE COOPER ENGINEERING VV ELECTRIC 36 COOPER ENGINEERING **EXISTING CULVERT** -----FIBER OPTIC MATTHEW VAN NATTA, PE PROPOSED CULVERT CHIPPEWA COUNTY ANDREW STENSLAND, PE (Box or Pipe) STRUCTURE B-54-0138 SANITARY SEWER Regional Examiner TOU YANG, PE COMBUSTIBLE FLUIDS LAYOUT STORM SEWER HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN TELEPHONE SCALE COORDINATE REFERENCE SYSTEM (WISCRS), RUSK COUNTY, WATER NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID MARSH AREA MATHU COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES UTILITY PEDESTAL Ħ TOTAL NET LENGTH OF CENTERLINE = 0.038 MILES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED POWER POLE 0 TO NAVD 88 (12A). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A. TELEPHONE POLE WOODED OR SHRUB AREA Ø FILE NAME: G:\2019-PROJ\19258030\C3D\SHEETSPLAN\010101_TI.DWG PLOT DATE : JACOB FRIBERG 10/21/2020 2:20 PM PLOT BY :

LIST OF STANDARD ABBREVIATIONS

LIST	JE STANDARD ADD	KEVIATI	UN3
ABUT	ABUTMENT		
AC .	ACRES	IT.	LEFT
AGG	AGGREGATE	LS	LUMP SUM
AH	AHEAD	MH	MANHOLE
ADT	AVERAGE DAILY TRAFFIC	N	NORTH
		NC	NORMAL CROWN
AVG.	AVERAGE	PAVT	PAVEMENT
ASPH	ASPHALTIC	PC	POINT OF CURVATURE
BK.	BACK	PE	PRIVATE ENTRANCE
BM		PI	POINT OF INTERSECTION
	BENCHMARK	PL	PROPERTY LINE
Δ	CENTRAL ANGLE OR DELTA	PP	POWER POLE
€ , C/L	CENTERLINE	PT	POINT OF TANGENCY
C & G	CURB AND GUTTER	R	RANGE, RADIUS
CABC	CRUSHED AGGREGATE	RCCP	REINFORCED CONCRETE
CONC.	BASE COURSE CONCRETE	11001	CULVERT PIPE
CONC.	CONCRETE	RD	ROAD
COR	CORNER	REBAR	REINFORCEMENT BAR
CORR	CORRUGATED	REQD	REQUIRED
CSCP	CORRUGATED STEEL		
	CULVERT PIPE	RDWY	ROADWAY
CSPA	CORRUGATED STEEL	RHF	RIGHT HAND FORWARD
	PIPE ARCH	RL, R/L	REFERENCE LINE
CTH	COUNTY TRUNK HIGHWAY	RR RT.	RAILROAD RIGHT
CP.	CULVERT PIPE	R/W	RIGHT-OF-WAY
CY.	CUBIC YARD	S	SOUTH
CWT.	HUNDREDWEIGHT	SAN S	SANITARY SEWER
DIA	DIAMETER	SDD	STANDARD DETAIL DRAWING
D	DEGREE OF CURVE	SE	SUPER ELEVATION
DHV	DESIGN HOURLY VOLUME	SF.	SQUARE FEET
DWY	DRIVEWAY	SHLDR	SHOULDER
EBS	EXC. BELOW SUB GRADE	SPECS	SPECIFICATIONS
ELEV., EL	ELEVATION	SQ.	SQUARE
ELEC.	ELECTRIC	SS.	STORM SEWER
EXC	EXCAVATION	SY.	SQUARE YARD
EXIST	EXISTING	STH	STATE TRUNK HIGHWAY
E	EAST	ST.	STREET
FE	FIELD ENTRANCE	STA.	STATION
FF.	FACE TO FACE	SW	SIDEWALK
FL, F/L	FLOW LINE	T	TANGENT
FS	FULL SUPERELEVATION	TC	TOP OF CURB
G	GARAGE	TL, T/L	TRANSIT LINE
GN	GRID NORTH	TEL	TELEPHONE
Н	HOUSE	TEMP	TEMPORARY
		TLE	TEMPORARY LIMITED EASEMENT
		TYP	TYPICAL
HYD	HYDRANT	USH	UNITED STATES HIGHWAY
I	INTERSECTION ANGLE	UG	UNDERGROUND

INTERS

INV.

LC

LF

LHF

INTERSECTION

LINEAR FOOT

LONG CHORD OF CURVE

LEFT HAND FORWARD LENGTH OF CURVE

INVFRT IRON PIN OR PIPE

UTILITY CONTACTS

COMMUNICATIONS

CENTURYLINK BRIAN HUHN 425 ELLINGSON AVENUE HAWKINS, WI 54530 PHONE: (715) 532-0023 EMAIL: brian.huhn@centurylink.com

ELECTRIC

JUMP RIVER ELECTRIC SAM HOWARD 1102 W. 9TH STREET NORTH LADYSMITH, WI 54848 PHONE: (715) 532-5524 EMAIL: showard@jrec.com

ALL UTILITIES LISTED ARE MEMBERS OF DIGGERS HOTLINE



OTHER CONTACTS

DESIGN CONSULTANT

COOPER ENGINEERING JACOB FRIBERG 2600 COLLEGE DRIVE RICE LAKE, WI 54868 PHONE: (715) 234-7008

EMAIL: jfriberg@cooperengineering.net

RUSK COUNTY

HIGHWAY COMMISSIONER SCOTT EMCH N2711 STH 27 LADYSMITH, WI 54848 PHONE: (715) 532-2633 EMAIL: semch@ruskcountywi.us COUNTY SURVEYOR JOHN FITZL 311 MINER AVE. EAST LADYSMITH, WI 54848 PHONE: (715) 532-2165 EMAIL: john@ruskcountywi.us

WDNR REGIONAL CONTACT

WDNR/WISDOT LIAISON LEAH NICOL 1300 WEST CLAIREMONT AVENUE EAU CLAIRE, WI 54701 PHONE: (715) 934-9014 EMAIL: Leah.Nicol@wisconsin.gov

GENERAL NOTES:

NO TREES OR SHRUBS SHALL BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE BEEN DESIGNATED FOR REMOVAL BY THE ENGINEER.

ACCESS TO ALL RESIDENCES & SIDE ROADS SHALL BE MAINTAINED DURING CONSTRUCTION.

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

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

PAVEMENT MARKING SHALL MEET MUTCD STANDARDS.

CTH D WILL BE CLOSED DURING CONSTRUCTION AND NO DETOUR ROUTE WILL BE MARKED.

RUNOFF COEFFICIENT TABLE

		H	/DROLOGIC SC	OIL GRO	UP					
		Α			В			С		
	SI	SLOPE RANGE (%)			SLOPE RANGE (%)			OPE RA	NGE (%)	
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36	
PAVEMENT:		I								
ASPHALT			.7095							
CONCRETE			.8095							
BRICK			.7080						<u> </u>	
DRIVES, WALKS .7585										
ROOFS			.7595							
GRAVEL ROADS, SH	HOULDER	RS	.4060						·	

TOTAL PROJECT AREA = 1.5 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.5 ACRES

Ε PROJECT NO: 8595-00-71 HWY: CTH D COUNTY: RUSK **GENERAL NOTES SHEET** G:\2019-PROJ\19258030\C3D\SHEETSPLAN\020101_GN.DWG PLOT DATE : PLOT BY: JACOB FRIBERG PLOT SCALE : 1 IN:100 FT FILE NAME : 10/21/2020 2:24 PM

LAYOUT NAME - GENERAL NOTES

DESIGN SPEED

VARIABLE

VERTICAL

YARD

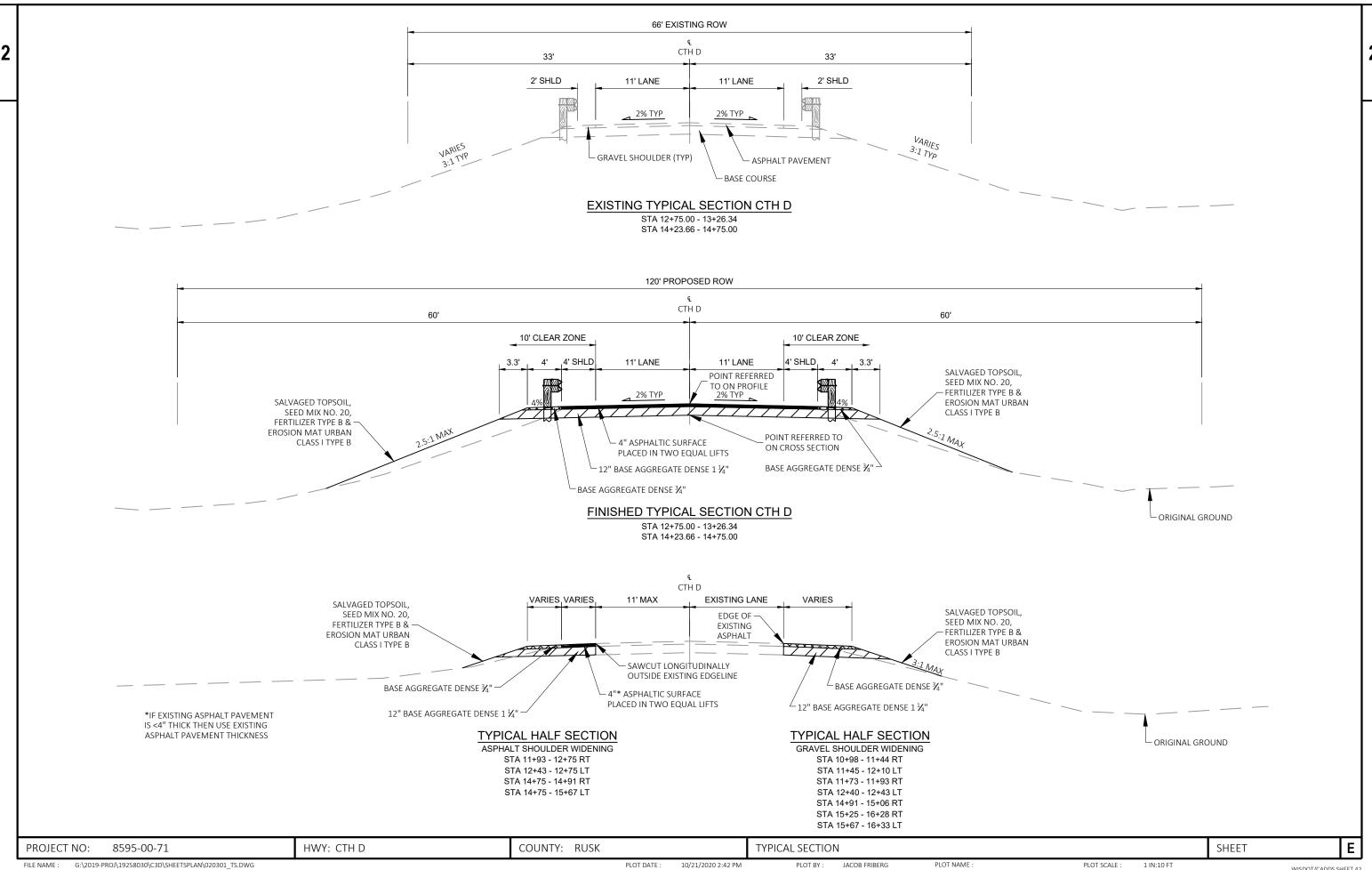
VAR.

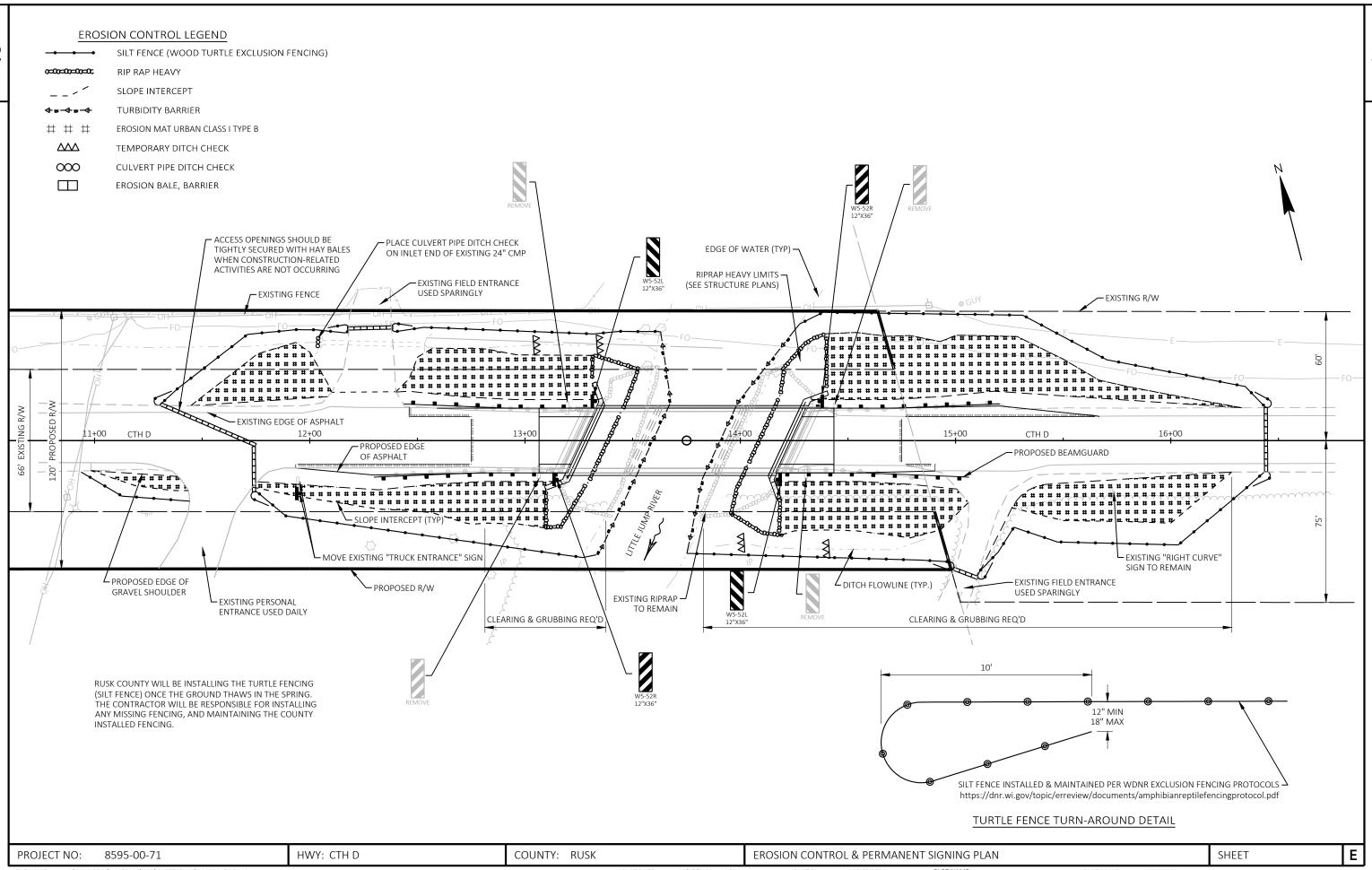
VERT

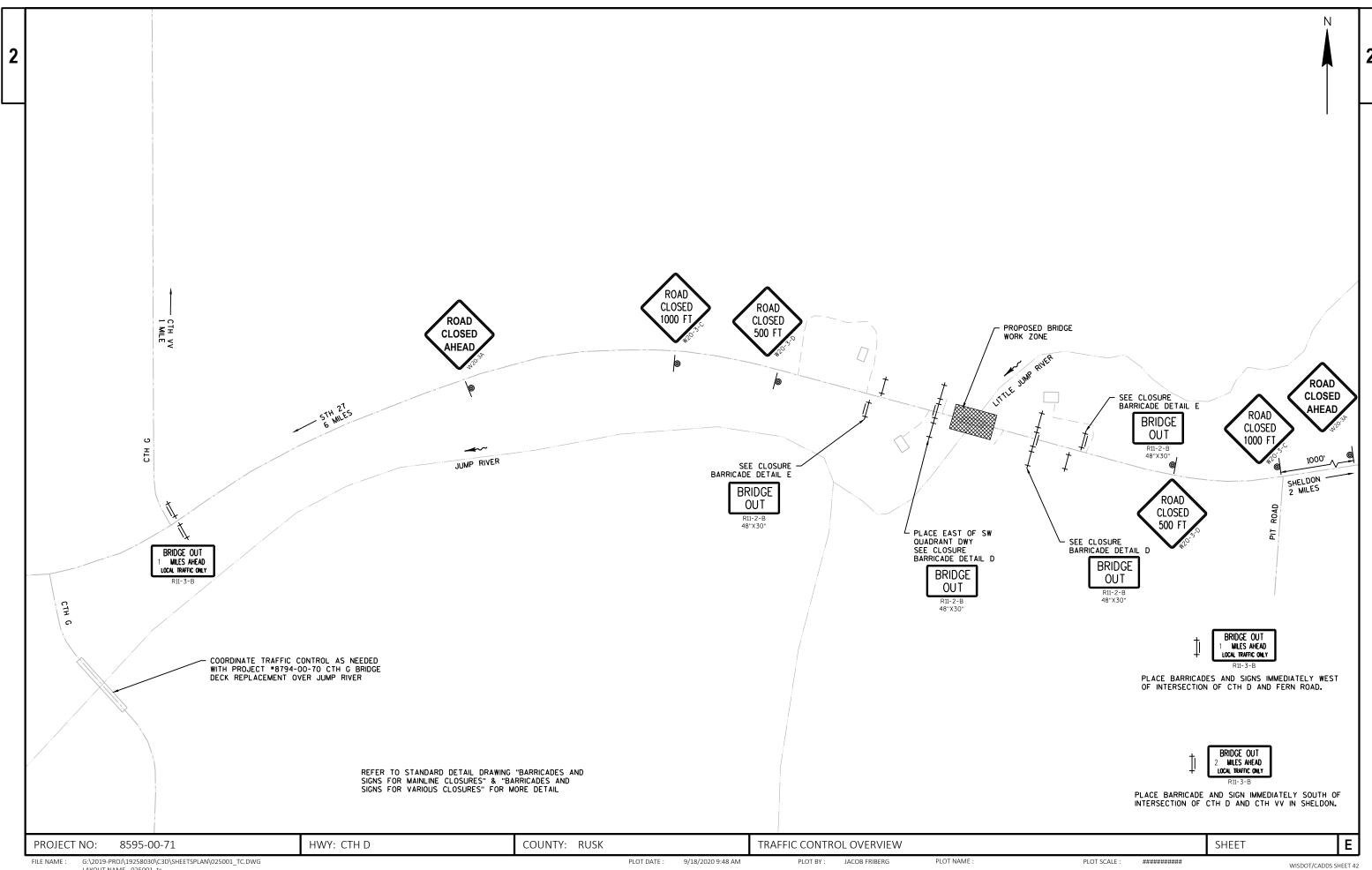
YD

PLOT NAME

WISDOT/CADDS SHEET 42







G:\2019-PROJ\19258030\C3D\SHEETSPLAN\025001_TC.DWG PLOT DATE : 9/18/2020 9:48 AM PLOT SCALE : ########### LAYOUT NAME - 025001_tc

					8595-00-71
Line	Item	Item Description	Unit	Total	Qty
0076	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0078	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0080	628.2008	Erosion Mat Urban Class I Type B	SY	1,635.000	1,635.000
0082	628.6005	Turbidity Barriers	SY	215.000	215.000
0084	628.7504	Temporary Ditch Checks	LF	50.000	50.000
0086	628.7555	Culvert Pipe Checks	EACH	5.000	5.000
0088	629.0210	Fertilizer Type B	CWT	1.100	1.100
0090	630.0120	Seeding Mixture No. 20	LB	50.000	50.000
0090	630.0500	Seed Water	MGAL	50.000	50.000
0092	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0094	637.2230		SF	12.000	12.000
		Signs Type II Reflective F			
0098	638.2102	Moving Signs Type II	EACH	1.000	1.000
0100	638.2602	Removing Signs Type II	EACH	4.000	4.000
0102	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0104	638.4000	Moving Small Sign Supports	EACH	1.000	1.000
0106	642.5001	Field Office Type B	EACH	1.000	1.000
0108	643.0300	Traffic Control Drums	DAY	475.000	475.000
0110	643.0420	Traffic Control Barricades Type III	DAY	1,425.000	1,425.000
0112	643.0705	Traffic Control Warning Lights Type A	DAY	2,470.000	2,470.000
0114	643.0900	Traffic Control Signs	DAY	1,425.000	1,425.000
0116	643.5000	Traffic Control	EACH	1.000	1.000
0118	645.0111	Geotextile Type DF Schedule A	SY	90.000	90.000
0120	645.0120	Geotextile Type HR	SY	260.000	260.000
0122	646.1020	Marking Line Epoxy 4-Inch	LF	800.000	800.000
0124	650.4500	Construction Staking Subgrade	LF	453.000	453.000
0126	650.5000	Construction Staking Base	LF	397.000	397.000
0128	650.6500	Construction Staking Structure Layout (structure) 01. B-54-0138		1.000	1.000
0130	650.7000	Construction Staking Concrete Pavement	LF	56.000	56.000
0132	650.9910	Construction Staking Supplemental Control (project) 01. 8595-00-71		1.000	1.000
0134	650.9920	Construction Staking Slope Stakes	LF	453.000	453.000
0136	690.0150	Sawing Asphalt	LF	275.000	275.000
0138	715.0502	Incentive Strength Concrete Structures	DOL	1,860.000	1,860.000
0140	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0142	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0144	SPV.0090	Special 01. Flashing Stainless Steel	LF	182.000	182.000
0144	OF V.0090	opedial VI. Hashing Stairliess Steel	LI	102.000	102.000

CATEGORY 5 0010 0010	12+75 - 13 13+80 - 16	3+40 5+25	RT RT RT TOTAL 0010	201.010 STA 2 3	G GRUBBIN 5 201.020 STA 2 3	05						00	D10 11+ D10 12+ D10 15+ D10 15+	+93 +43 +06	COCATION RT LT RT LT	GUARDRAIL		MGS GUARDRAIL TERMINAL EAT 614.2610 EA 1 1 1 1	-	
															TOTAL 0010	305	157.6	4	-	
										LE		EXPAND FILL DED (FACTOF 1.25)	MASS R = ORDINAT	E BORROV	V					
			(ATEGORY	STATION 1	TO STATION	N SIDE	205.0100 CY		CY	CY	CY	CY	208.010	_					
				0010		- 11+44	RT	10	0	10	1	2	8							
				0010	11+44	- 12+10	LT	15	0	15	9	11	4							
			_	0010 0010		- 13+26 - 13+32	R⊤ L⊤	70 60	10 10	60 50	30 55	38 69	22 -19							
				0010 0010		- 15+04 - 16+33	RT LT	55 90	10 15	45 75	85 135	107 169	-62 -94	36 94						
				0010		- 16+28	R⊤	30	0	30	15	19	11							
							TOTAL 0010	330	45	285	330	415	-130	130	<u> </u>					
							BASE AGGREGATE / DENSE 3/4-INCH			APPROACH	TACK COAT	ASPHALTIC SURFACE		SAWING ASPHALT						
					ASPHALT HICKNESS	_	305.0110		415.0120			465.0105								
	CATEGORY	STATION TO	O STATION			LAYERS	TON	TON	SY	SY	GAL	TON	MGAL	LF	F	REMARKS				
	0010	10+98 - 11+45 -		RT			5 9	25 40	=	-	-	-	0.3	-						
	0010 0010	11+73 -	11+93	LT RT			3	15	-	-	-	-	0.5	-						
	0010	11+93 - 12+40 -	- 12+43	RT LT	4.0	2	2	80 5	-	-	-	<u>9</u> -	0.1	- 85						
	0010 0010	12+43 - 12+75 -		LT LT/RT	4.0 4.0	2 2	5 8	30 100	-	-	2 8	3 25	0.5 1.3	34 22						
	0010	13+06 -	13+34	LT/RT	7.0		5	40	18	50	-		0.5	-	PLACE 4" B.A.					
	0010 0010	14+16 - 14+44		LT/RT LT/RT	4.0	2	5 8	40 100	18	50	- 8	- 25	0.5 1.3	- 22	PLACE 4" B.A.	D. UNDER CO	NCRETE			
	0010	14+44	15+67	LT	4.0	2	16	90	-	-	3	8	1.3	92						
	0010 0010	14+75 14+91	14+91 15+06	RT RT	4.0	2	3	15 10	-	-	1	5	0.3	20						
	0010	15+25	16+28	RT			23	85	-	-	-	-	1.2	-	INCLUDES DR	IVEWAY				
	0010	15+67	16+33	LT			11	45	-	-	-	-	0.6	-						
					TO	TAL 0010	120	720	36	100	25	75	10	275						

			SAL		OSION MAT BAN CLASS I	TEMPORARY DITCH		FERTILIZER			CATEGORY	LOCATION	EROSION BALES 628.1104 EA		SILT FENCE MA	ILT FENCE INTENANCE 528.1520 LF	CATEGORY	LOCATION	MOBILIZATION EROSION CONTR 628.1905 EA	
CATEGORY ST	TATION TO STATIC	N SID	625	PSOIL 5.0500 6 SY	TYPE 8 528.2008 SY	CHECKS 628.7504 LF	CHECKS 628.7555 EA	TYPE B 629.0210 CWT	630.0120 LB	SEED WATER 630.0500 MGAL	0010	STA 11+25, RT	-	-	55	55	0010	PROJECT	3	2
	10+98 11+44			25	25	LI	LA	0.02	2	2	0010 0010 0010	WEST SIDE CTH D STA 11+75, LT F.E. NW SIDE	23 - 7	- 125 -	-	125		TOTAL 0010	3	2
0010	11+44 - 12+10 11+73 - 13+17	ΙT		120 190	120 190	-	4	0.08 0.13	4 6	4 6	0010	STA 12+50, RT	-	170	-	170				
0010	12+40 - 13+34	LT		200	200	15	-	0.14	6	6	0010 0010	STA 13+00, LT STA 14+50, RT	-	140 110	-	140			TURBIDITY	
	14+16 - 15+04 14+33 - 16+33			210 390	210 390	2 5 -	-	0.15 0.25	6 11	6 11	0010	STA 15+00, LT	-	240	-	240			BARRIER	
0010	15+25 - 16+28		- :	170	170	-	-	0.11	5	5	0010 0010	P.E. NE SIDE STA 15+75, RT	4	- 140	-	140	CATECORY	LOCATION	628.6005	DENAADIKO
0010	UNDISTRIBUTED		3	330	330	10	_	0.22	10	10	0010	EAST SIDE CTH D	10	-	-	-	CATEGORY	LOCATION	SY	REMARKS
		TOTAL	0010 1	635	1635	50	5	1.1	50	50	0010	UNDISTRIBUTED	11	-	245	245	0010	B-54-138 WES		120' LONG X 8.5' HI
												TOTAL 0010	55	925	300	1225	0010	B-54-138 EAST	Г 100	120' LONG X 7.5' HI
													*FOR INFOR	MATION ON	LY			TOTAL 001	.0 215	
0010 0010 0010 0010 0010 0010	11+95 13+15 13+35 14+20 14+35	DE RT RT LT RT LT LT LT LO010	EA - 1 1 1 1 1 1	637.2230 SF - 3 3 3 3	638.2102 EA 1 1	638.2602 EA - 1 1 1 1 4	638.3000 EA - 1 1 1 1 4	638.4000 EA 1 - - - 1	REMAI TRUCK ENT W5-52R W5-52L W5-52R W5-52R				0010 0010 0010 0010 0010	10+98 13+06 14+16	N TO STATION 3 - 13+06 5 - 13+34 6 - 14+44 4 - 16+33 TOTAL 00	650.4500 LF 208 28 28 189 10 453	650.5000 LF 208 - - 189 397	650.7000 LF - 28 28 - 56	650.9920 LF 208 28 28 189 453	_
	1RAFFIC CON DRUMS 643.030	ROL I	AFFIC CONT BARRICADE TYPF III 643.0420	S WAR	TIC CONTROL NING LIGHTS TYPE A 43.0705	TRAFFIC CONTROL SIGNS 643.0900	_									MARKING LIN EPOXY 4-INCH 646.1020	EPOXY 4-INCH, WH	EPC	XY /ELLOW	
CATEGORY DAYS	# [AYS	# DA	YS #	DAYS	# DAY	5	F	REMARKS			CATEGORY	STATIC	N TO STA	TION SIDE	LF	LF	LF	:	REMARKS
0010 95			3 28			1 95			L D WEST SID			0010		75 - 14+		200	200	-		HITE EDGELINE
0010 95 0010 95			3 28 4 3 8		3 8 0 760	1 95 6 570			L D NORTH SI .OSED DETAIL	IDE .C WESTSIDE		0010 0010		75 - 14+ 75 - 14+		200 400	200 -	40		HITE EDGELINE DW CENTERLINE
0010 95	-		5 47			7 665	ADVANG	ED RÓAD ČL	ÖSED DETAIL	C EAST SIDE					TOTAL 00	010 800	400	40		
0010 95	5 4	175					3HLD W	ORK OUTSID	C BAKKICAUL	ES WEST SIDE								40	O	
TOTAL 0	0010	175	1,4	25	2,470	1,42	<u></u>								*FOR I	NFORMATION ONLY				
ROJECT NO:	8595-00-71				VY: CTH D				COUNTY:				ANEOUS C						SHEE	

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

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4"X24" IRON REBARS) UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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

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

ACCESS RIGHTS	AR	RIGHT-OF-WAY	R/W	
ACRES	AC.	SECTION	SEC.	
AND OTHERS	ET.AL.	STATION	STA.	
CENTERLINE	C/L	TEMPORARY LIMITED EASEMENT	TLE	
CERTIFIED SURVEY MAP	CSM	VOLUME	V.	
CORNER	COR.	VOCONIC	1875	
DOCUMENT	DOC.			
EASEMENT	EASE.			
HIGHWAY EASEMENT	H.E.			
LAND CONTRACT	LC			
MONUMENT	MON.	25.25/25		
PAGE	p	CURVE	DATA	

LONG CHORD

LONG CHORD BEARING

CENTRAL ANGLE OR DELTA

DEGREE OF CURVE

LENGTH OF CURVE

PLE

(100')

PERMANENT LIMITED EASEMENT

PROPERTY LINE

RECORDED AS

REFERENCE LINE

	TELEPHONE	T-		
	OVERHEAD	— Он-		
	TRANSMISSION LINES	0,1		
	ELECTRIC			
	CABLE TELEVISION			
	FIBER OPTIC	FO		
	SANITARY SEWER			
	STORM SEWER	ss		
	3,0,0,0	NON		
	co		COMPENSABLE	
	POWER POLE		L.	
		Ġ		
	TELEPHONE POLE	ø		
LCH	TELEPHONE PEDESTAL	Ħ	×	
LCB	ELECTRIC TOWER	×		
	Ecconnic roman			
R				
D		SCALE	FEET	
DELTA		72		100
1		0	50	100
TAN		25		

PROJECT LOCATION

RESERVED FOR REGISTER OF DEEDS PROJECT NUMBER 8595-00-71 - 4.01

NO ACCESS (BY STATUTORY AUTHORITY) SECTION LINE QUARTER LINE SIXTEENTH LINE EXISTING CENTERLINE PROPOSED REFERENCE LINE PARALLEL OFFSET

COOPER ENGINEERING COMPANY, INC. 600 COLLEGE DRIVE, P.O. BOX 230

WAYNE M. RADO, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF RUSK COUNTY HIGHWAY DEPARTMENT I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Wayre M Rado Date: 5/26/20



PRINT NAME: WAYNE M. RADO AGENT FOR COOPER ENGINEERING CO., INC. REGISTRATION NUMBER: \$-1900 THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE RUSK COUNTY HIGHWAY DEPARTMENT

SIGNATURE: 2020.05.26 09:20:42 -05'00' DATE: PRINT NAME- SCOTT R EMCH HIGHWAY COMMISSIONER

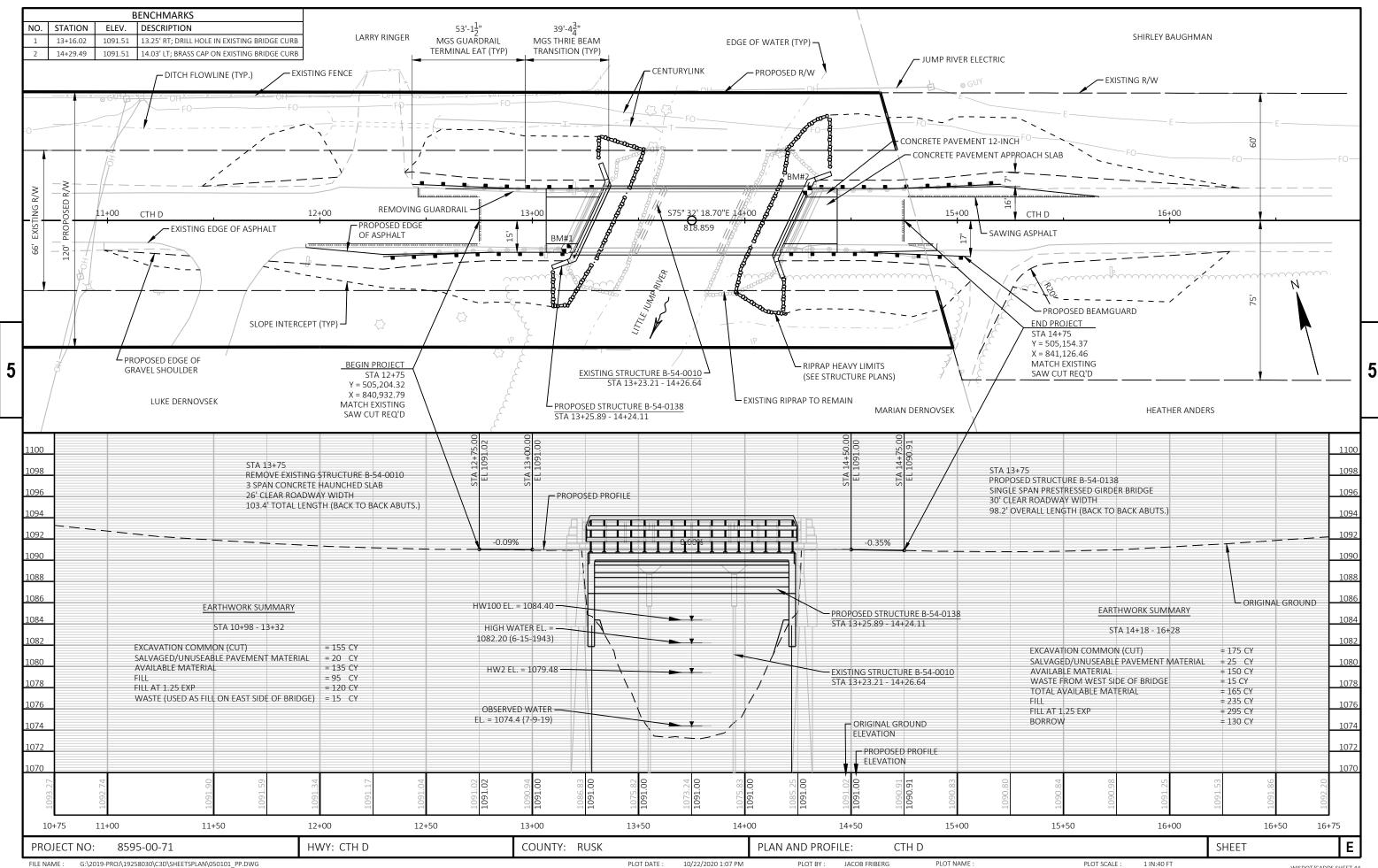
FILE NAME: G:\2019-PROJ\19258030\C3D\BASEDATA\SURVEY\WR TPP 1 REV1.DWG APPRAISAL PLAT DATE :

PLOT DATE: 5/26/2020 9:19 AM

PLOT BY: WAYNE RADO PLOT NAME

CONTROL)

THURST



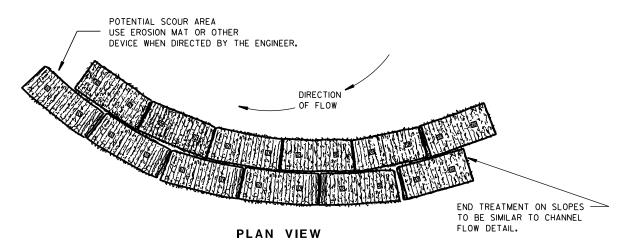
Standard Detail Drawing List

00500 00	TVDLCAL INCTALLATIONS OF EDOCLON DALES / TEMPODADY DITCH SHESKS
	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	
08E11-02 08E15-01	
12A03-10 13B02-09A	
13C01-19	
14B42-06A 14B42-06B	
14B42-06C	
14B42-06D	
14B44-04A	
14B44-04B	
14B44-04C	
14B45-05A	
14B45-05B	
14B45-05C	
14B45-05H	
15C02-08A	
15C02-08B	BARRI CADES AND SIGNS FOR VARIOUS CLOSURES
15C06-09	
15C08-20A	LONGI TUDI NAL MARKI NG (MAI NLI NE)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
	ATTACHMENT OF SIGNS TO POSTS

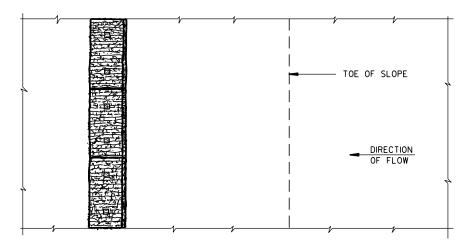
GENERAL NOTES

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

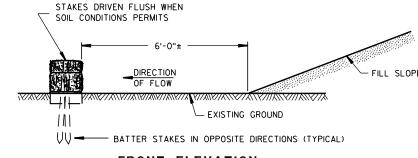
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

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

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

- 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

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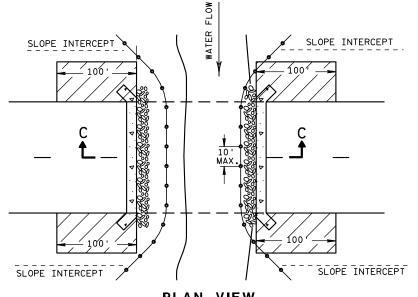
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GENERAL NOTES

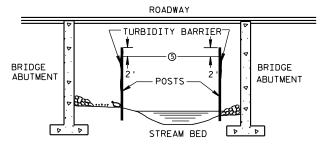
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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 WATER ELEVATIONS.
- 2 SANDBAGS 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 FT., POST SPACING MAY NEED TO BE DECREASED.
- (4) IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK 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

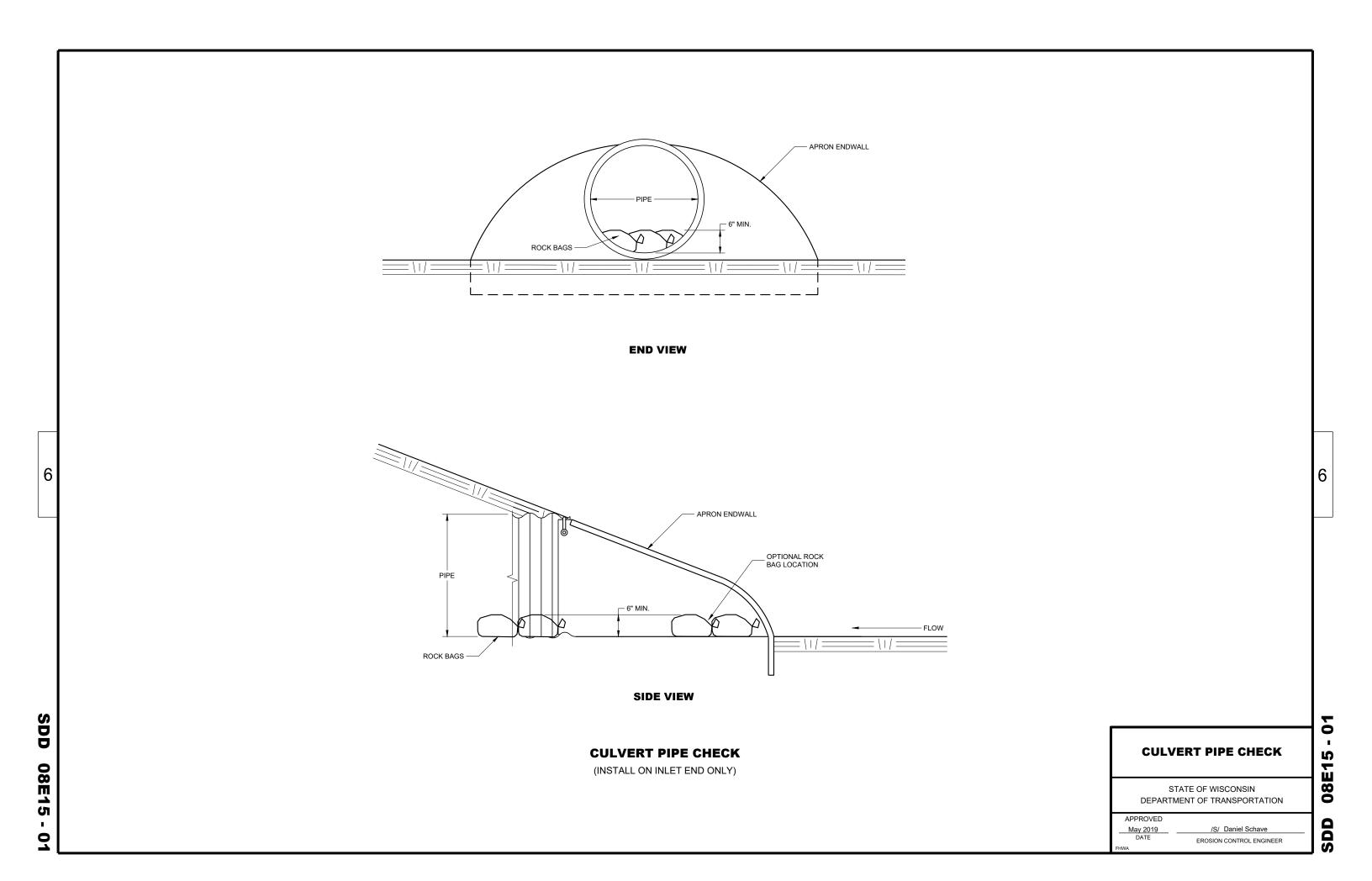
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

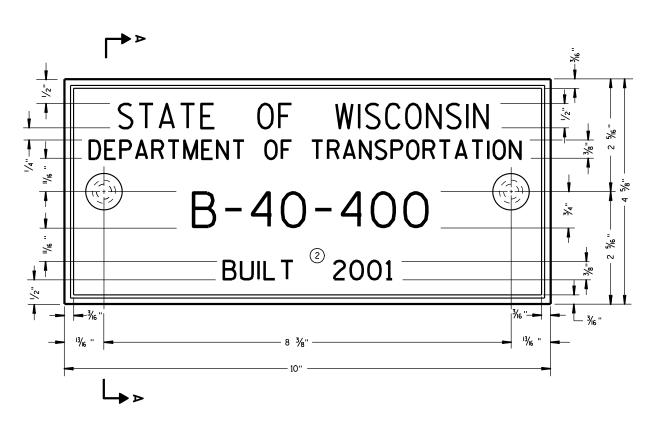
6/04/02 /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

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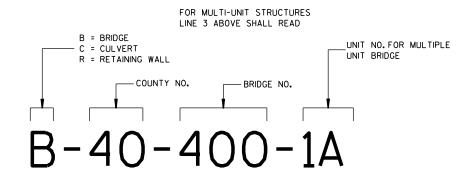






TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



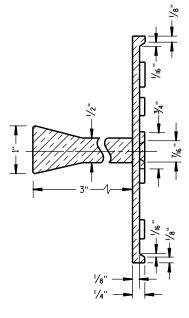
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

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.

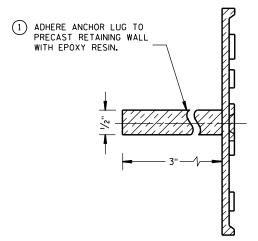
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

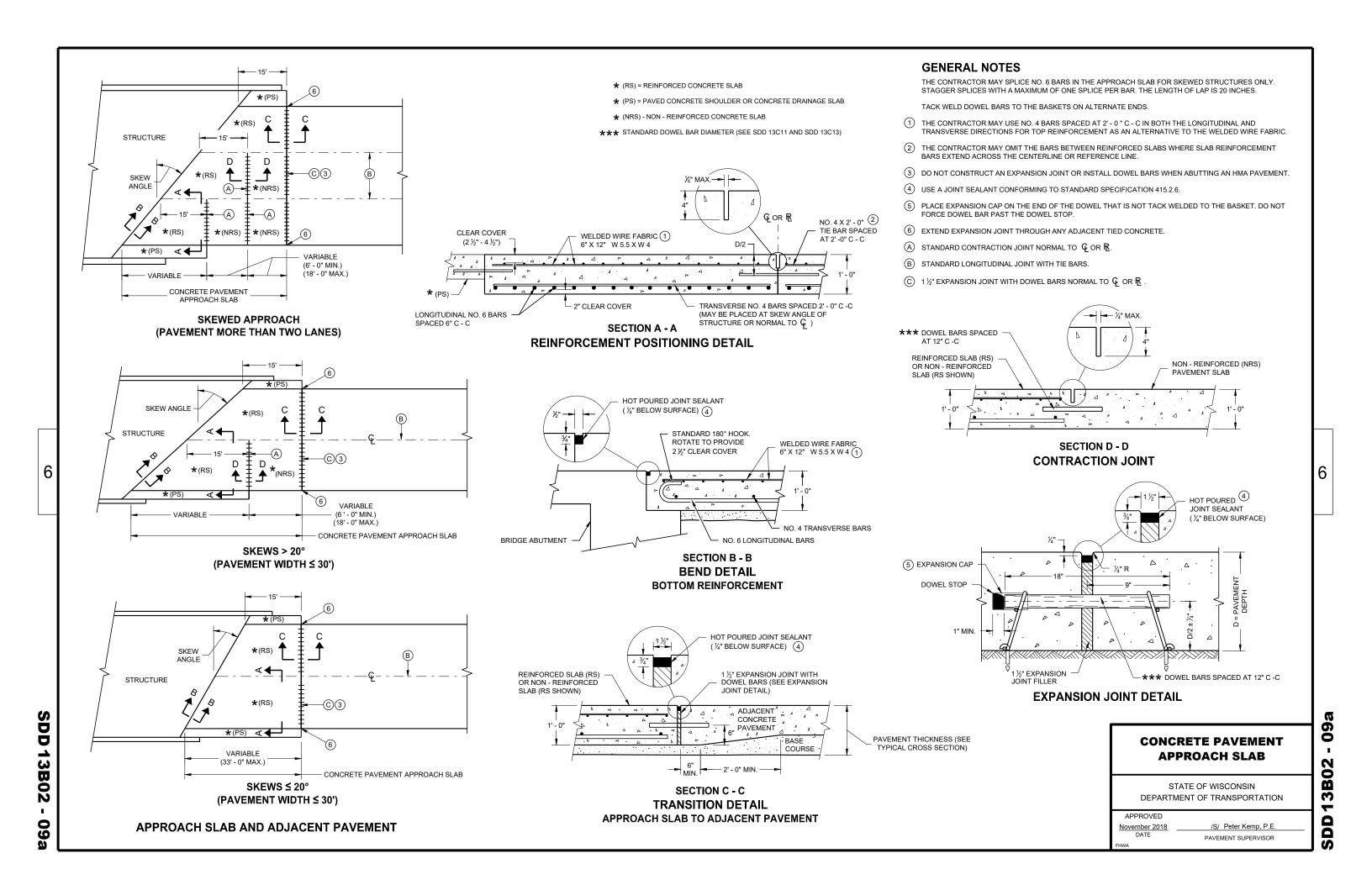
(FOR ATTACHMENT TO PRECAST STRUCTURES)

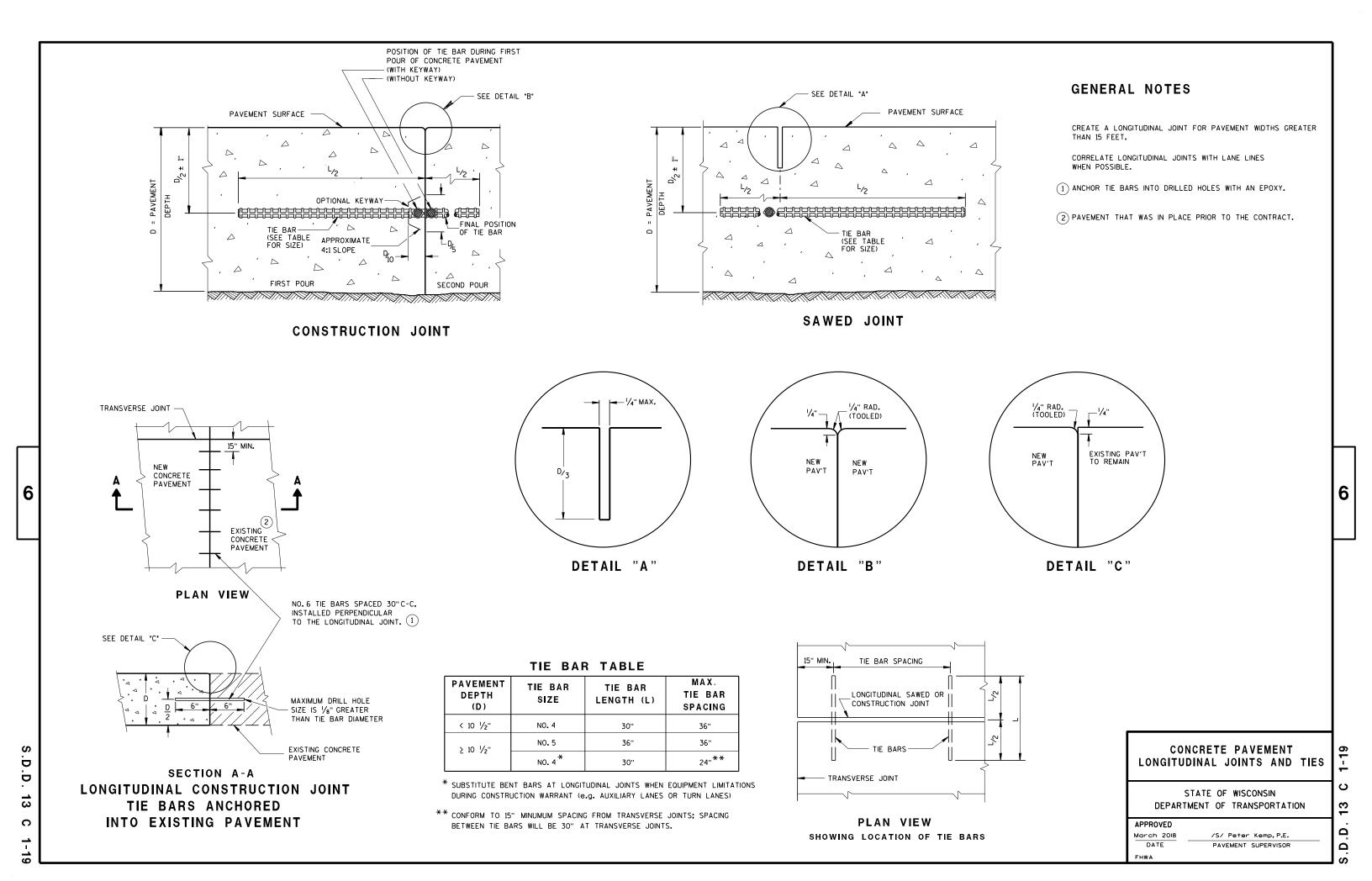
NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

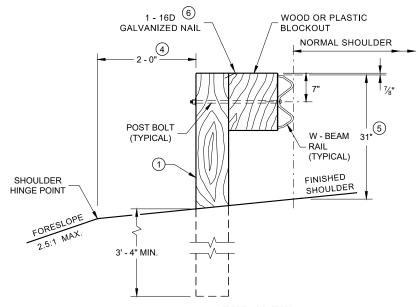
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 D. 12 A 3-10

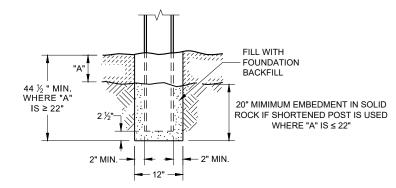




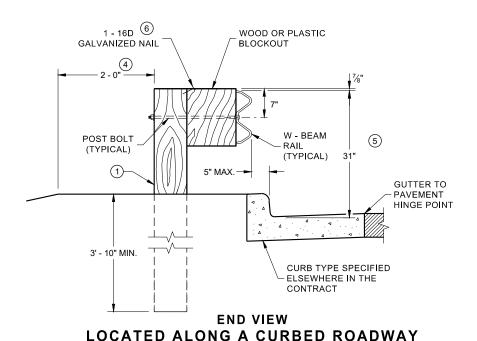
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- $\ \, \ \,$ IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 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
- 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).
- $_{\mbox{\scriptsize (5)}}$ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS +1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 $^3\!4''$ 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.

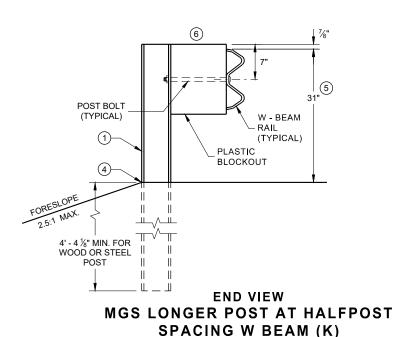


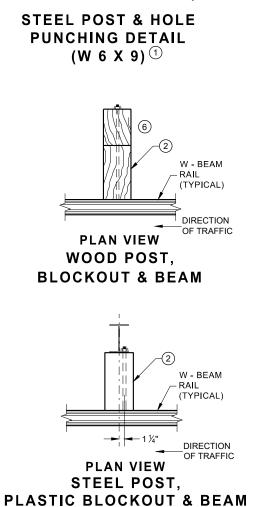
END VIEW LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION

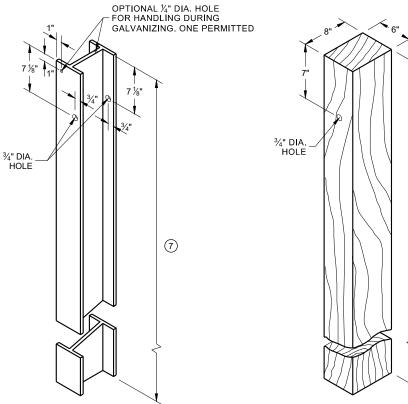


END VIEW SETTING STEEL OR WOOD POST IN ROCK

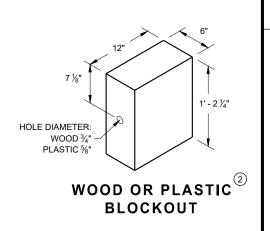








WOOD POST (6" X 8") NOMINAL



MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION SD

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

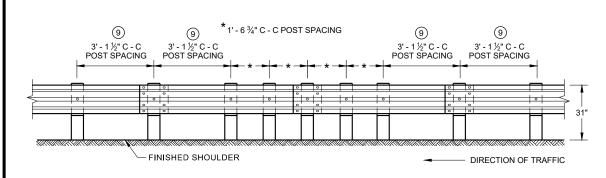
POST SPACING

DIRECTION OF TRAFFIC

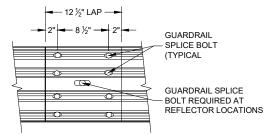
6' - 3" C -C

POST SPACING

FINISHED SHOULDER

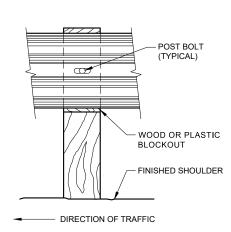


FRONT VIEW **QUARTER POST SPACING (QS)**



FRONT VIEW MID-SPAN BEAM SPLICE

FRONT VIEW AT STEEL POST



GENERAL NOTES

OF QUARTER POST SPACING.

RECESSED (DR) HEAVY HEX NUT.

OF THE ENERGY ABSORBING TERMINAL.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END

(9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS

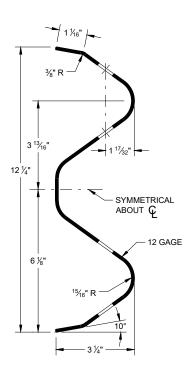
POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT

GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE

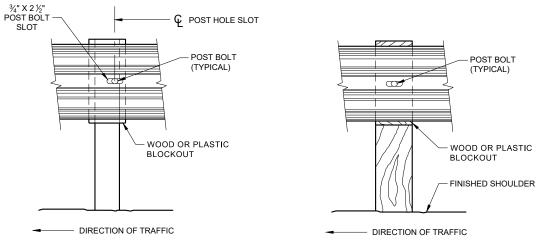
REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %"

DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS

FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



4" X 12" DELINEATOR REFLECTOR (REFER TO SDD 15A4 FOR DELINEATOR SPACING) WOOD OR PLASTIC BLOCKOUT MOUNT WITH TWO 3/16" X 2 1/2" TRIPLE COATED SCREWS WITH WASHERS WOOD OR STEEL POST - DIRECTION OF TRAFFIC

ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

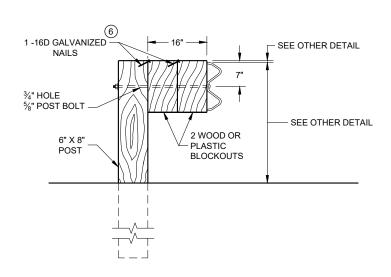
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SDD

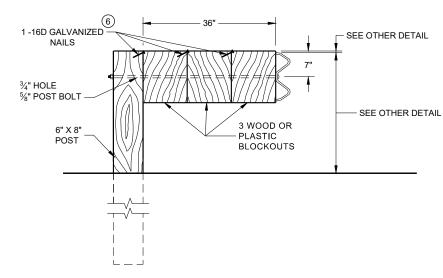
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DETAIL FOR 16" BLOCKOUT DEPTH

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



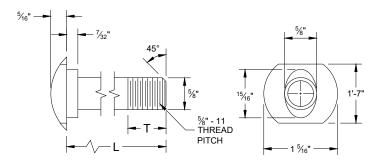
DETAIL FOR 36" BLOCKOUT DEPTH

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

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

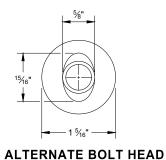
NOTE:

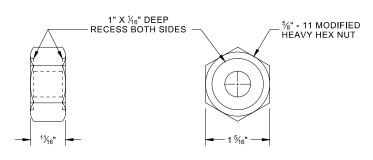
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



POST BOLT TABLE

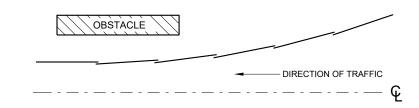
L	T (MIN.)
1 1⁄4"	1 1/4"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



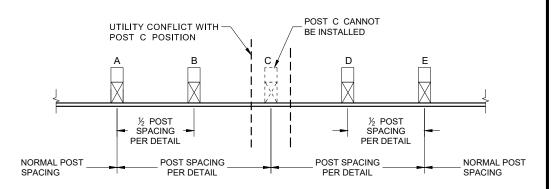


POST BOLT, SPLICE BOLT AND RECESS NUT

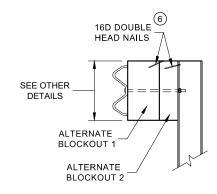
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

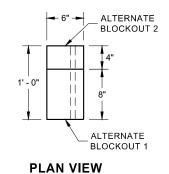


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

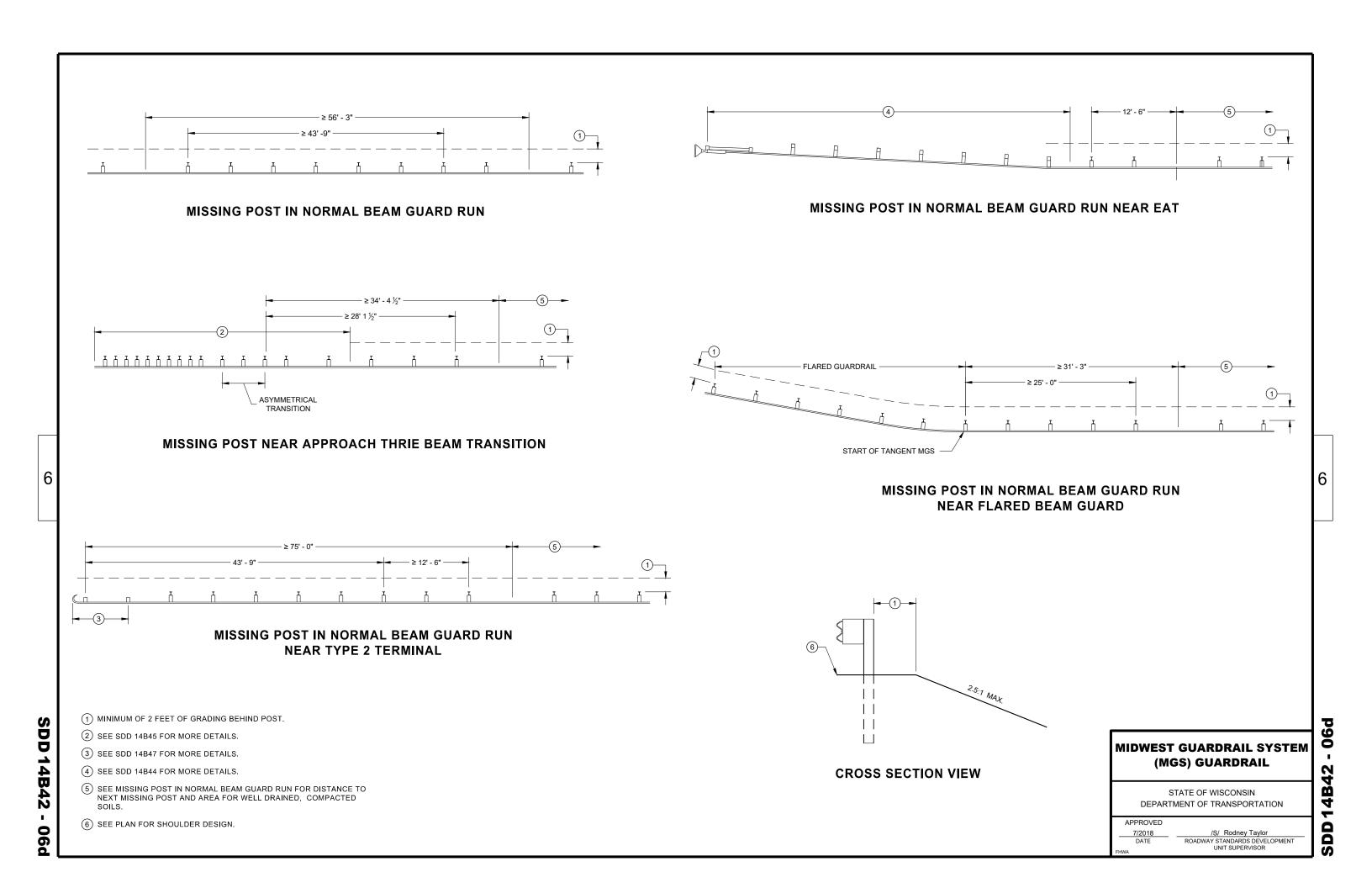
ALTERNATE WOOD BLOCKOUT DETAIL

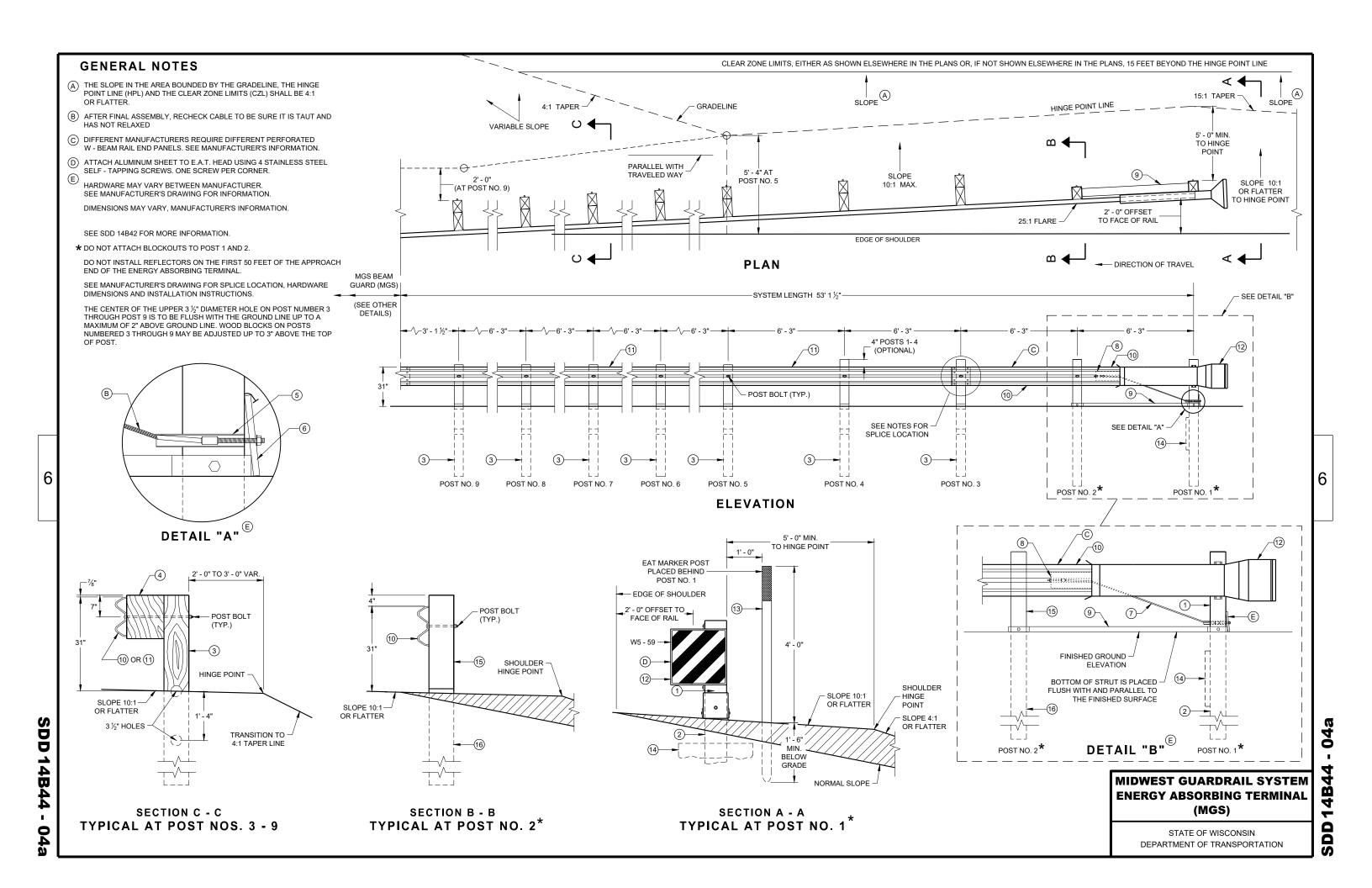
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

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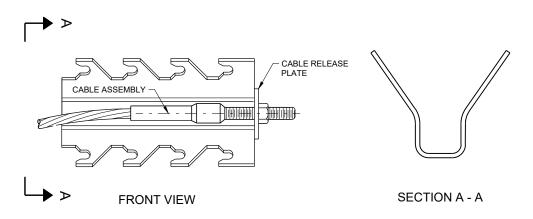
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

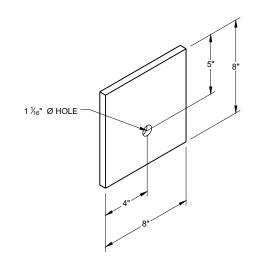




GENERIC GROUND STRUT



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



BEARING PLATE

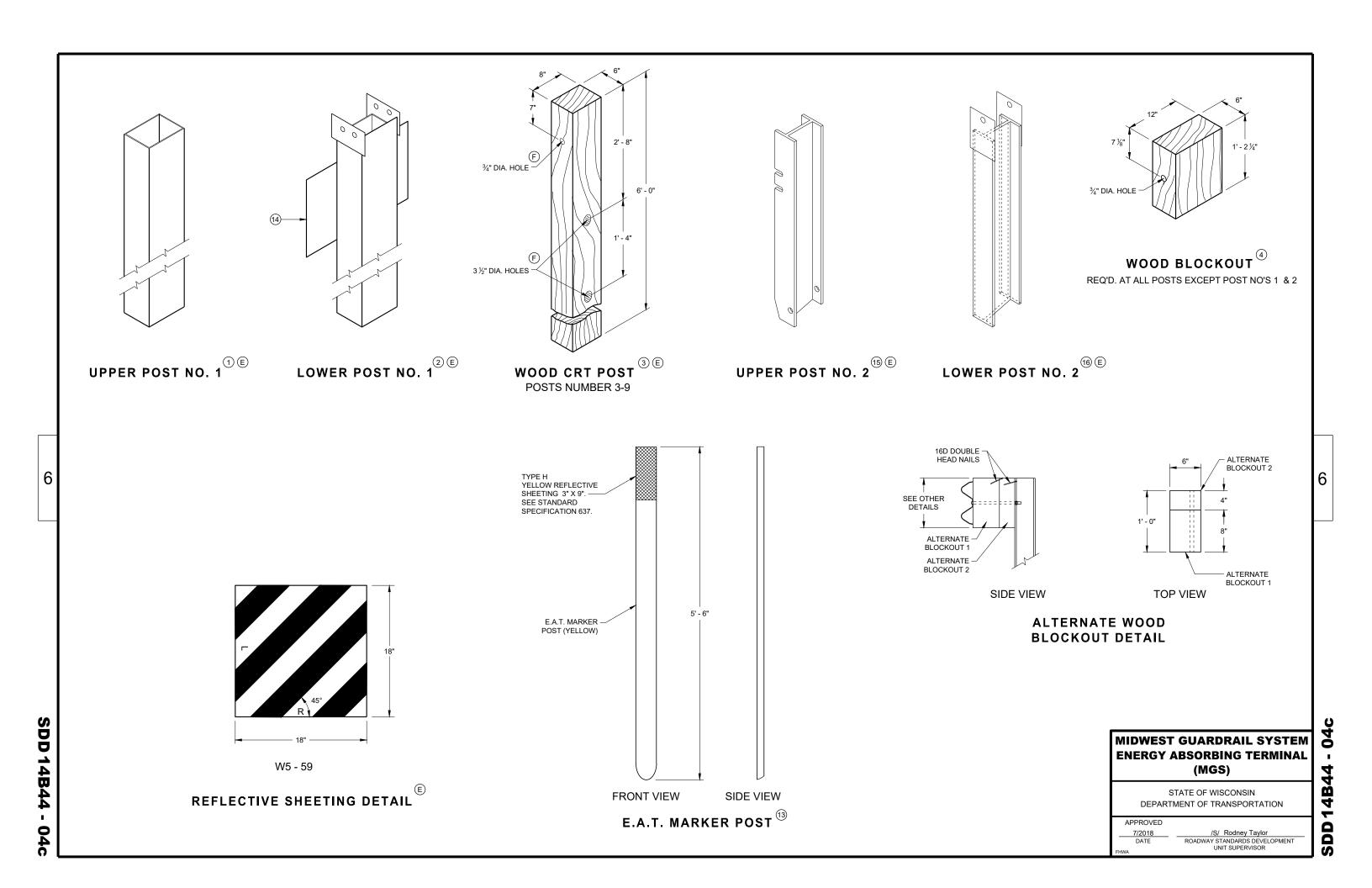
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

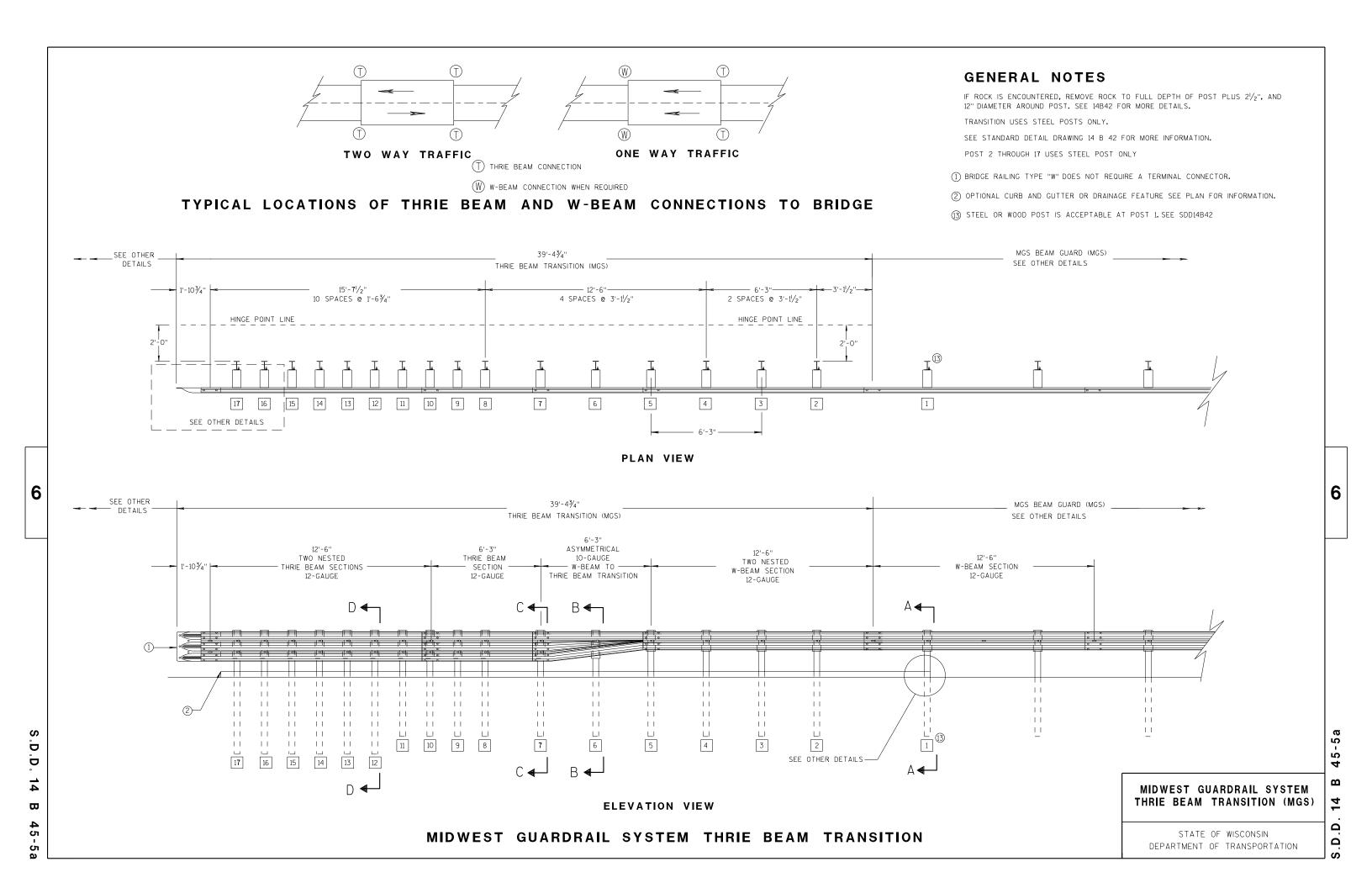
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

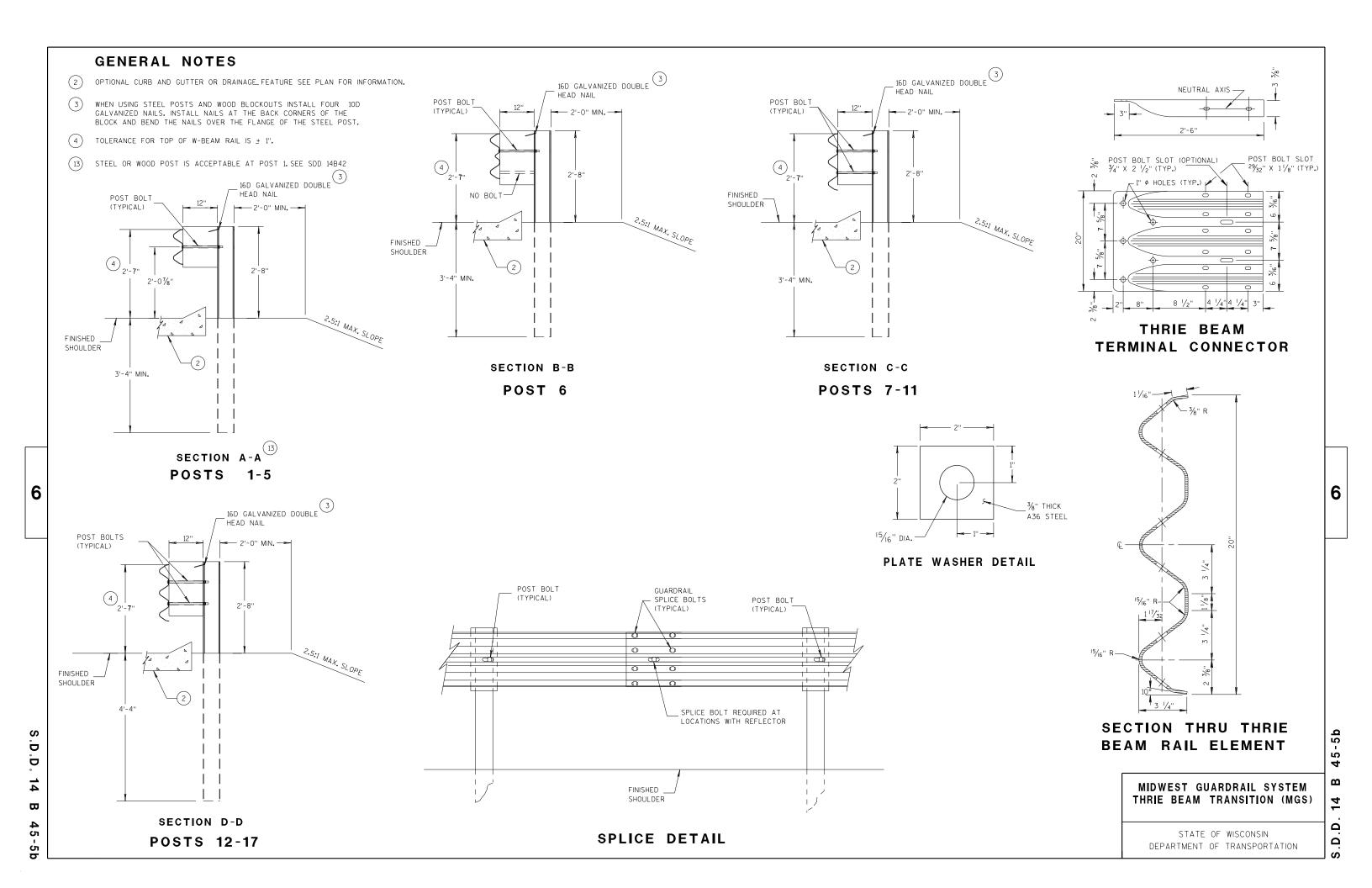
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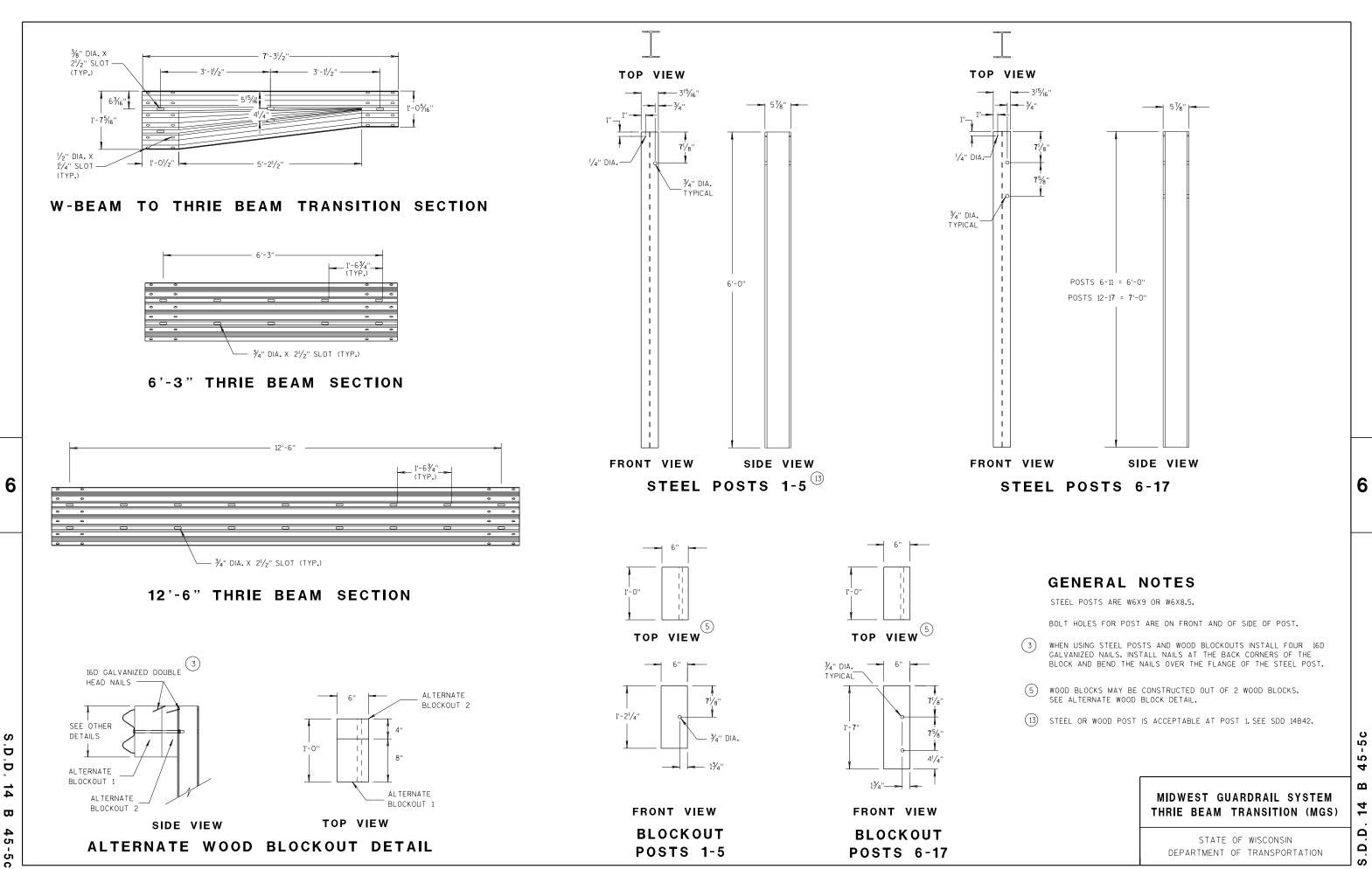
SDD 14B44

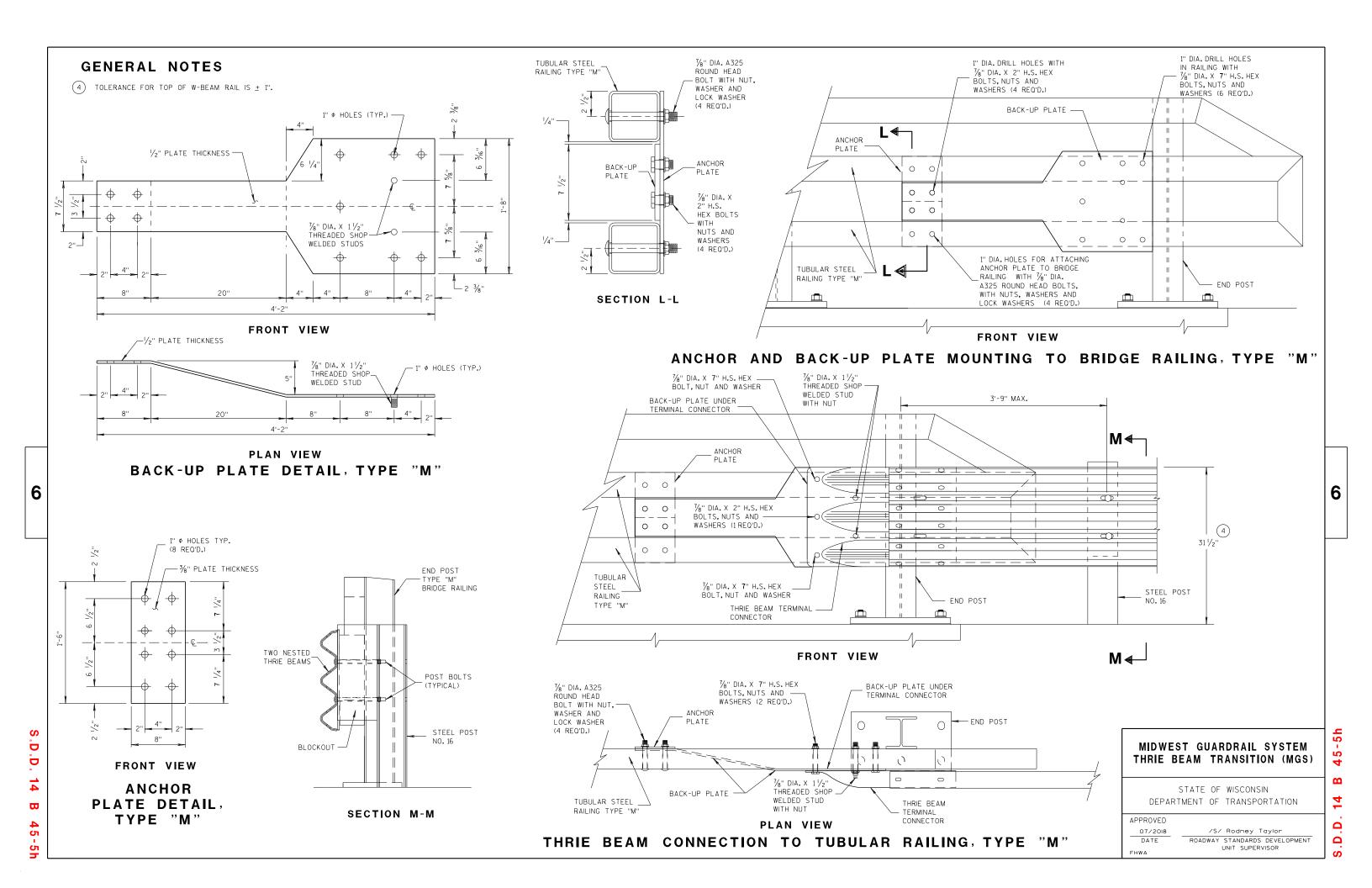
SDD 14B44 - 04

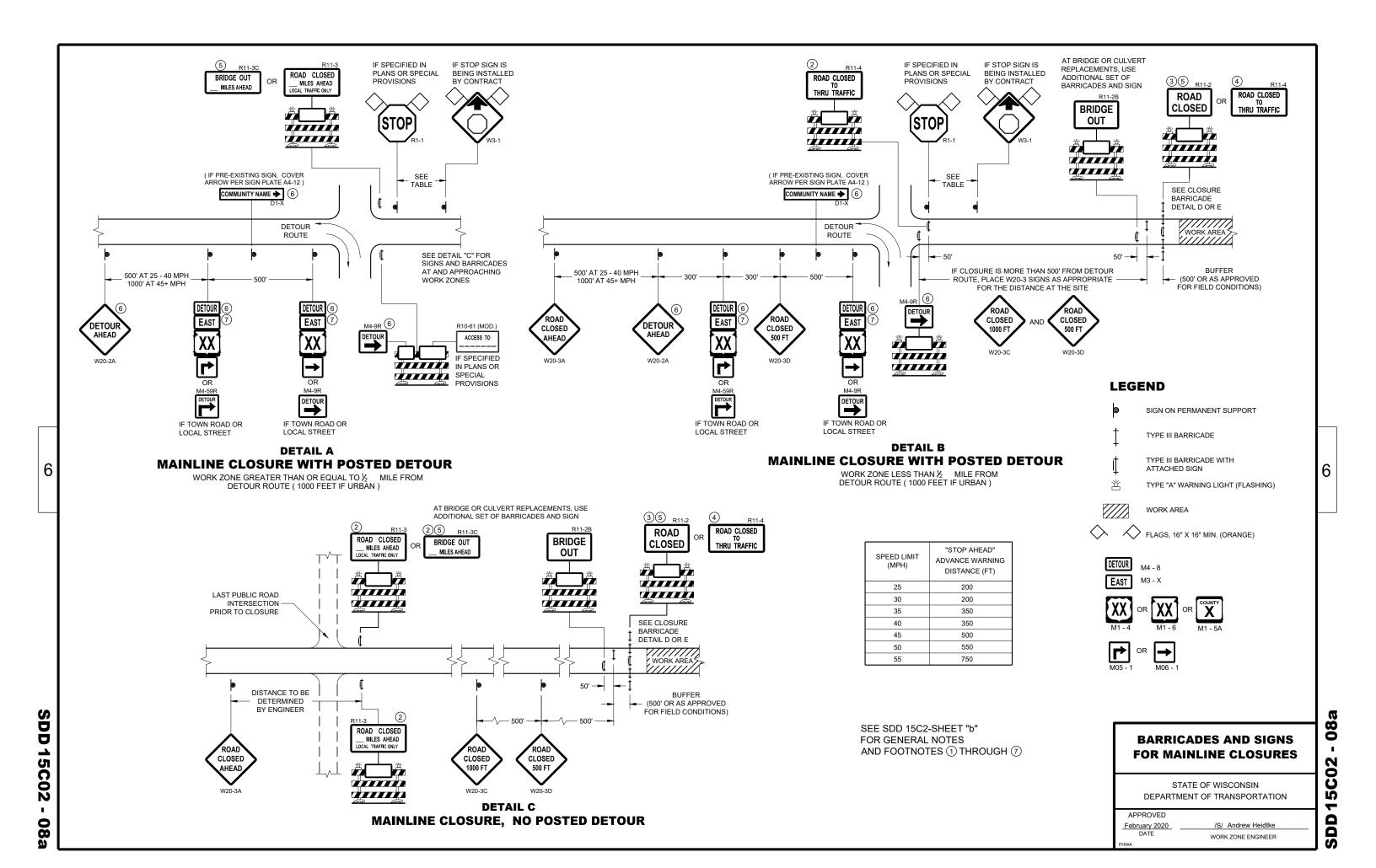


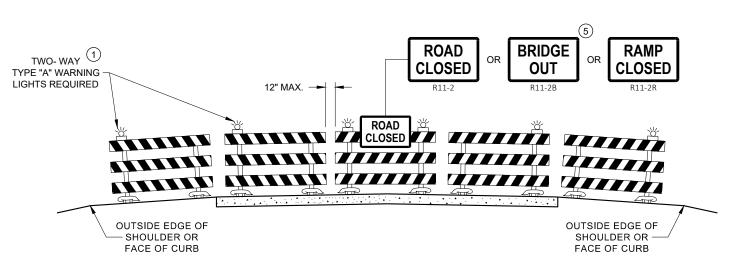




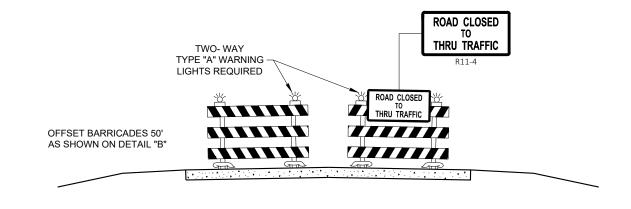








DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



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 <u>WITHOUT</u> LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 2 AND R11 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- (7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

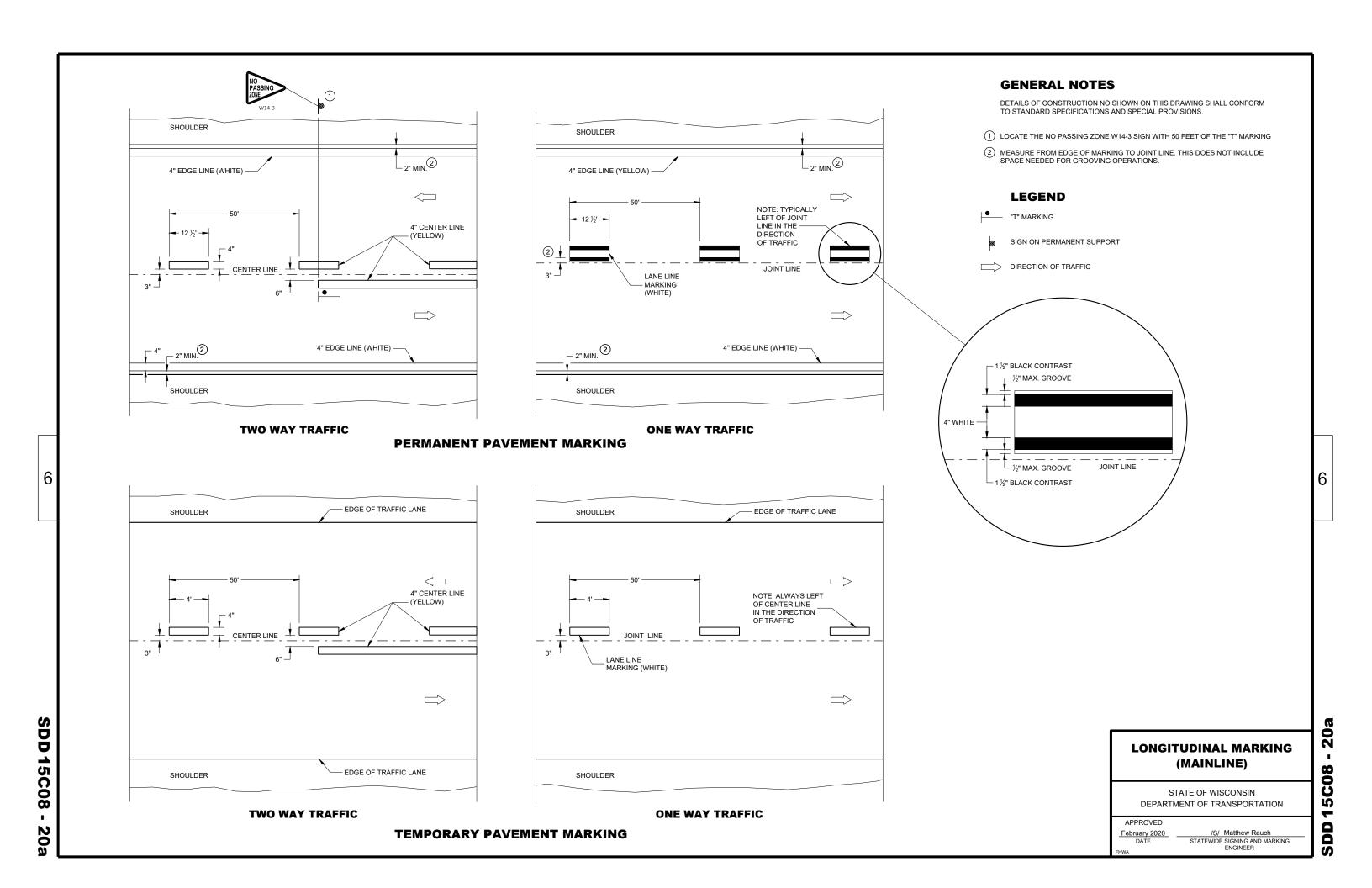
APPROVED

February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

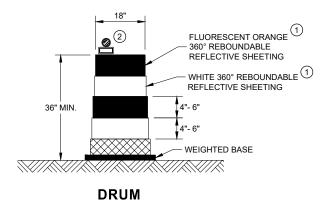
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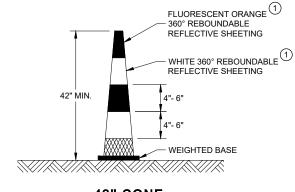


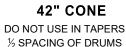


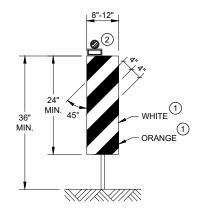
GENERAL NOTES

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

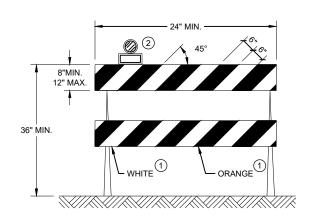






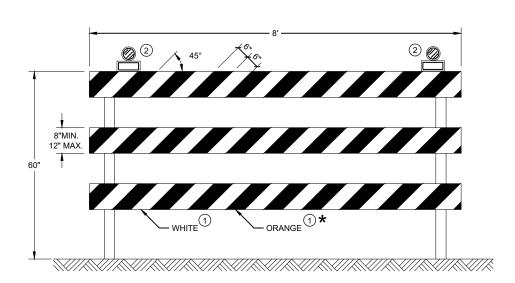


VERTICAL PANEL THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

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



TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

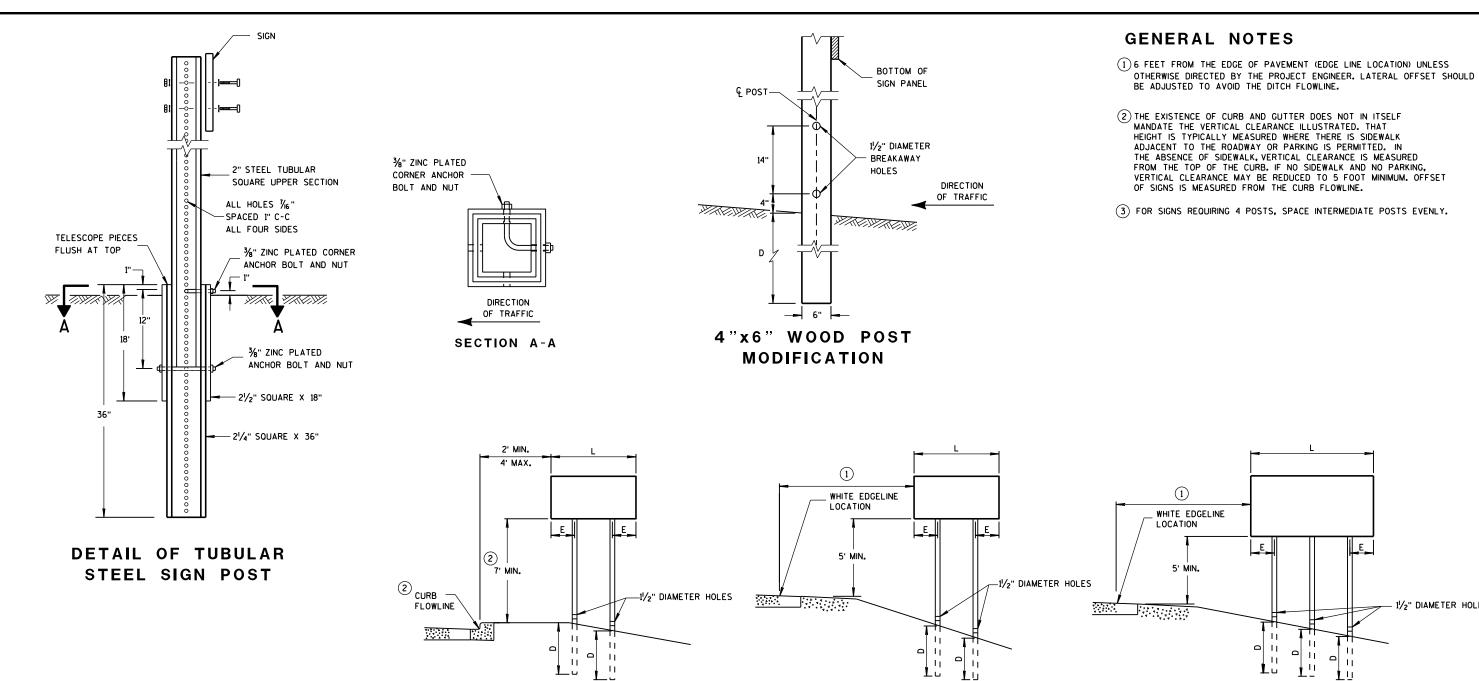
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SDD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
June 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	



TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EOUAL TO 18	2
GREATER THAN 18 LESS THAN OR EOUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

AREA OF SIGN INSTALLATION (SO. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF	
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	؛ [
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

-11

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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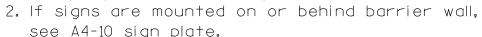
- 11/2" DIAMETER HOLES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> /S/ Andrew Heidtke WORK ZONE ENGINEER

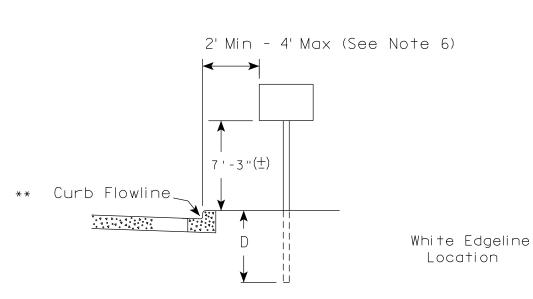
APPROVED

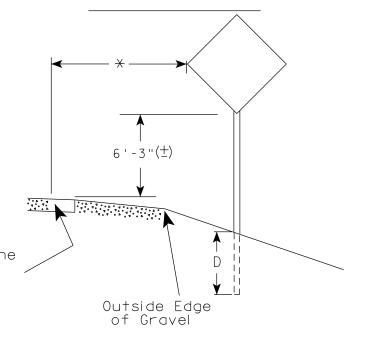
June 2017 DATE



The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52). Mile Markers (D10 series). In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3'' ($\frac{+}{-}$).

- 3. For expressways and freeways, mounting height is $7'-3''(\pm)$ or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is $5' - 3'' \stackrel{(\pm)}{-}$.
- 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.





2' Min - 4' Max (See Note 6) 6'-3"(±) ** Curb Flowline D

5'-3"(士) White Edgeline $D \parallel$ Location 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 measured from the flow line.

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.

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 For State Traffic Engineer

DATE 5/13/2020

SHEET NO:

Ε

PROJECT NO: FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.dgn COUNTY:

PLOT BY: mscj9h

PLOT NAME :

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

PLOT DATE: 13-MAY 2020 1:04



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

Nather R Raw
For State Traffic Engineer

DATE <u>8/11/16</u>

PLATE NO. <u>44-8.8</u>

PROJECT NO:

FILE NAME : C:\CAFfiles\Projects\tr stdplote\A48 DCN

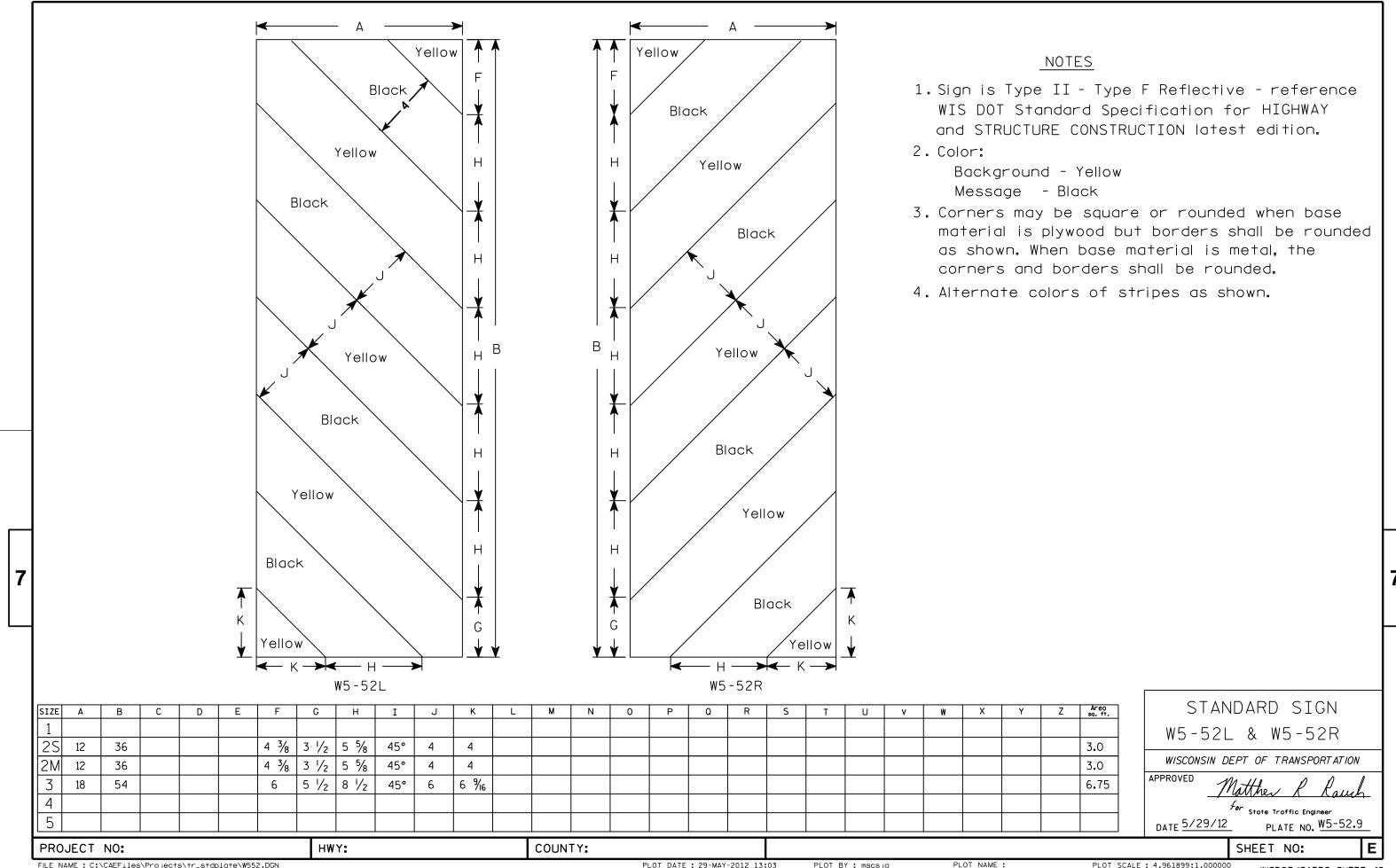
PLOT DATE . 11-416-2016 11:35

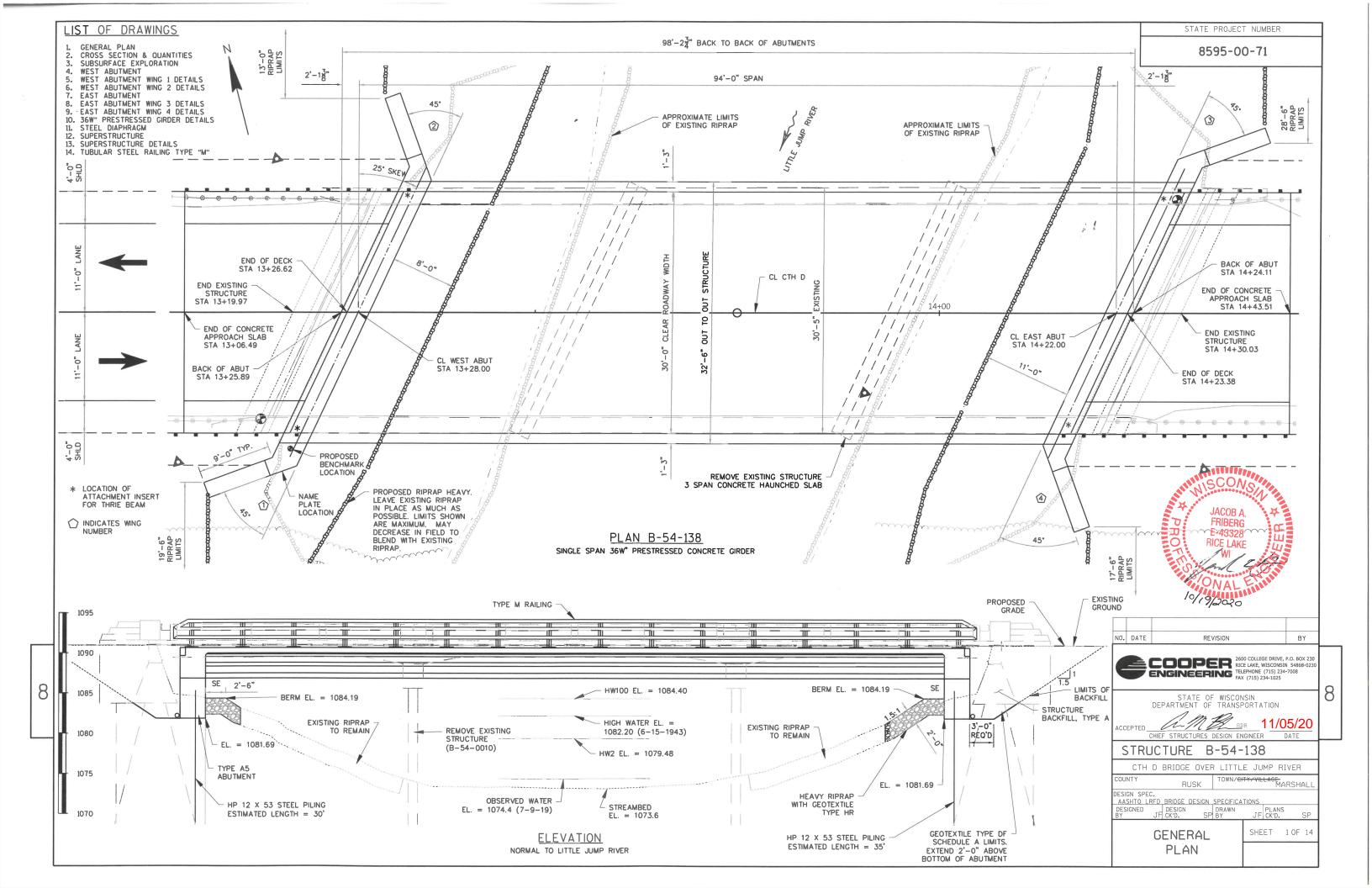
PINT RY * \$\$ nintuser \$\$

SHEET NO:

| | |







GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

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

THE SLOPE OF FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE TYPE 'HR' TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-54-0138" SHALL BE THE EXISTING GROUNDLINE.

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. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

AT THE BACKFACE OF THE ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURAL BACKFILL.

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

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

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP SURFACE, SIDE, AND 1'-0" UNDERSIDE OF CONCRETE DECK.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE TOP AND EXTERIOR EXPOSED FACE OF WINGS, AND THE END 1'-0" OF THE FRONT FACE OF

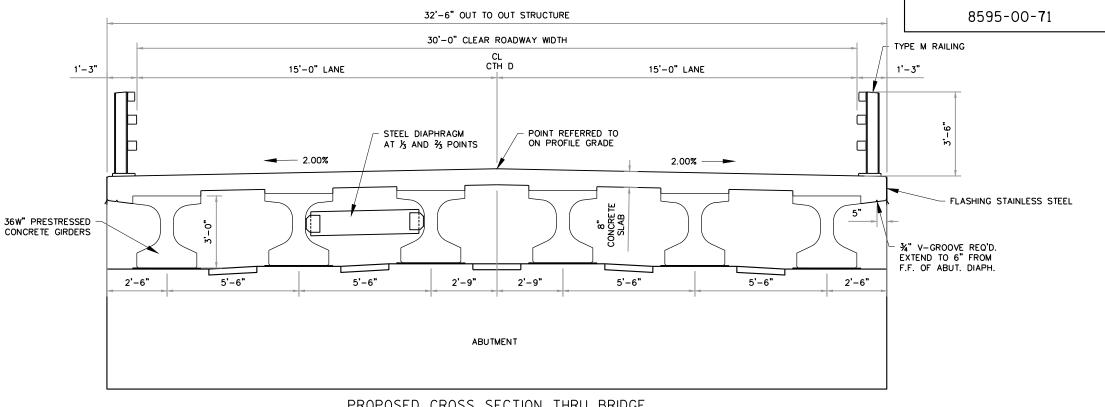
THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW NEW BRIDGE AND CURRENT CONSTRUCTION YEAR.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

BID ITEM NO. BID ITEMS

ELEVATIONS SHOWN ON THE PLANS ARE REFERENCES TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).

THE COORDINATE SYSTEM FOR THIS PROJECT IS WISCONSIN COUNTY COORDINATE SYSTEM (WCCS) - RUSK COUNTY.



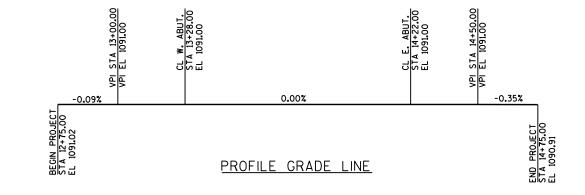
PROPOSED CROSS SECTION THRU BRIDGE

	BENCHMARKS									
NO.	STATION	ELEV.	DESCRIPTION							
1	13+16.02	1091.51	13.25' RT; DRILL HOLE IN EXISTING BRIDGE CURB							
2	14+29.49	1091.51	14.03' LT; BRASS CAP ON EXISTING BRIDGE CURB							

UNIT W. ABUT. E. ABUT. SUPER. TGTAL

TOTAL ESTIMATED QUANTITIES

	203.0210.5	ABATEMENT OF ASBESTOS CONTAINING MATERIAL (B 54 0010)	LS		•		<u>-</u>	
	203.0700.s	REMOVING OLD STRUCTURE OVER WATERWAY WITH DEBRIS CAPTURE SYSTEM (STA 13-75)	LS	-	-	-	<u>-</u>	
	206,1000	EXCAVATION FOR STRUCTURES BRIDGES (B-54-138)	LS	0.5	0.5	-	:	
	210,1500	BACKFILL STRUCTURE TYPE A	TON	270	270	-	540	
	502,0100	COMCRETE MASOMRY BRIDGES	C.Z.	38	38	118	194	. [
	502,3200	PROTECTIVE SURFACE TREATMENT	SY	17	17	388	422	. Ē
	503.0137	PRESTRESSED GIRDER TYPE I 36W-INCH	LF	-	-	570	57C	- "
	505.0400	BAR STEEL REINFORGEMENT HS STRUCTURES	LB	2,640	2,640	-	5,280	· N
	505,0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,540	1,540	17,390	20,470	. 8
0	506,2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EA	6	ė	-	12	
8	506,4000	STEEL DIAPHRAGMS (B-54-138)	EA	-	-	10	10	- <u>N</u>
	513,4061	RAILING TUBULAR TYPE M	LF	-	-	200	200	C
	51€.0530	RUBBERIZED MEMBRANE WATERPROOFING	5 Y	7.5	7.5	-	15	- P
	550.1120	PILING STEEL HP 12 INCH X 53 LB	LF	24C	290	1	52C	. В
	606.0300	RIPRAP HEAVY	СĀ	70	105	-	175	
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	ī.F	ខព	8.5	-	165	Ē
	645,0111	GECTEXTILE TYPE OF SCHEDULE A	SY	4.5	45	-	90	· A
	645.0120	GECTEXTILE TYPE HR	5 Y	100	160	-	26C	_ A
	s?v.0090.C1	FLASHING STAINLESS STEEL	LF		•	182	182	
								· •
	MON-BID ITEM	4" X 1/2" PERFORMED JOINT FILLER	ī.F	3.6	36	-	72	. E
	NON-BID ITEM	1/2" PERFORMED JOINT FIBLER (BENEATH GIRDERS)	SF	9	9	-	18	
	MON-BID ITEM	3" X 3/4" CORK FILLER AT BEAM SEATS	LF	15	15	-	30	



DESIGN DATA

LIVE LOADS: DESIGN LOADING = HL-93 INVENTORY RATING FACTOR = 1.03 OPERATING RATING FACTOR = 1.64 MAX, STD, PERMIT VEHICLE LOAD = 250 KIPS

STRUCTURE IS DESIGNED FOR FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT

MATERIAL PROPERTIES:

CONCRETE MASONRY SUBSTRUCTURE ----- F'C = 3,500 PSI CONCRETE MASONRY SUPERSTRUCTURE ----- F'C = 4,000 PSI PRESTRESSED CONCRETE GIRDERS ----- F'C = 8,000 PSI PRESTRESSED STEEL ----- Fpu = 270,000 PSI BAR STEEL REINFORCEMENT (GRADE 60) ---- FY = 60,000 PSI

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 12 X 53 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 190 TONS* (MIN) PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 30'-0" LONG WEST ABUT. & 35'-0" LONG EAST ABUT..

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

TRAFFIC DATA A.D.T. (2015) = 527 A.D.T. (2035) = 539R.D.S. = 55 MPH

HYDRAULIC DATA 100 YEAR FREQUENCY Q100 = 5,230 CFS

VEL. = 9.9 FPS HW100 ELEV. = 1084,40 WATERWAY AREA = 912 SF DRAINAGE AREA = 75.3 SQ.MI ROADWAY OVERTOPPING = NA SCOUR CODE = 8

2 YEAR FREQUENCY Q2 = 1,520 CFS VEL. = 5.6 FPS

HW2 ELEV. = 1079.48

CONTACTS BRIDGE OFFICE: CONTACT: AARON BONK

PHONE: (608) 261-0261

CONSULTANT: CONTACT: COOPER ENGINEERING PHONE: (715) 234-7008

STATE PROJECT NUMBER

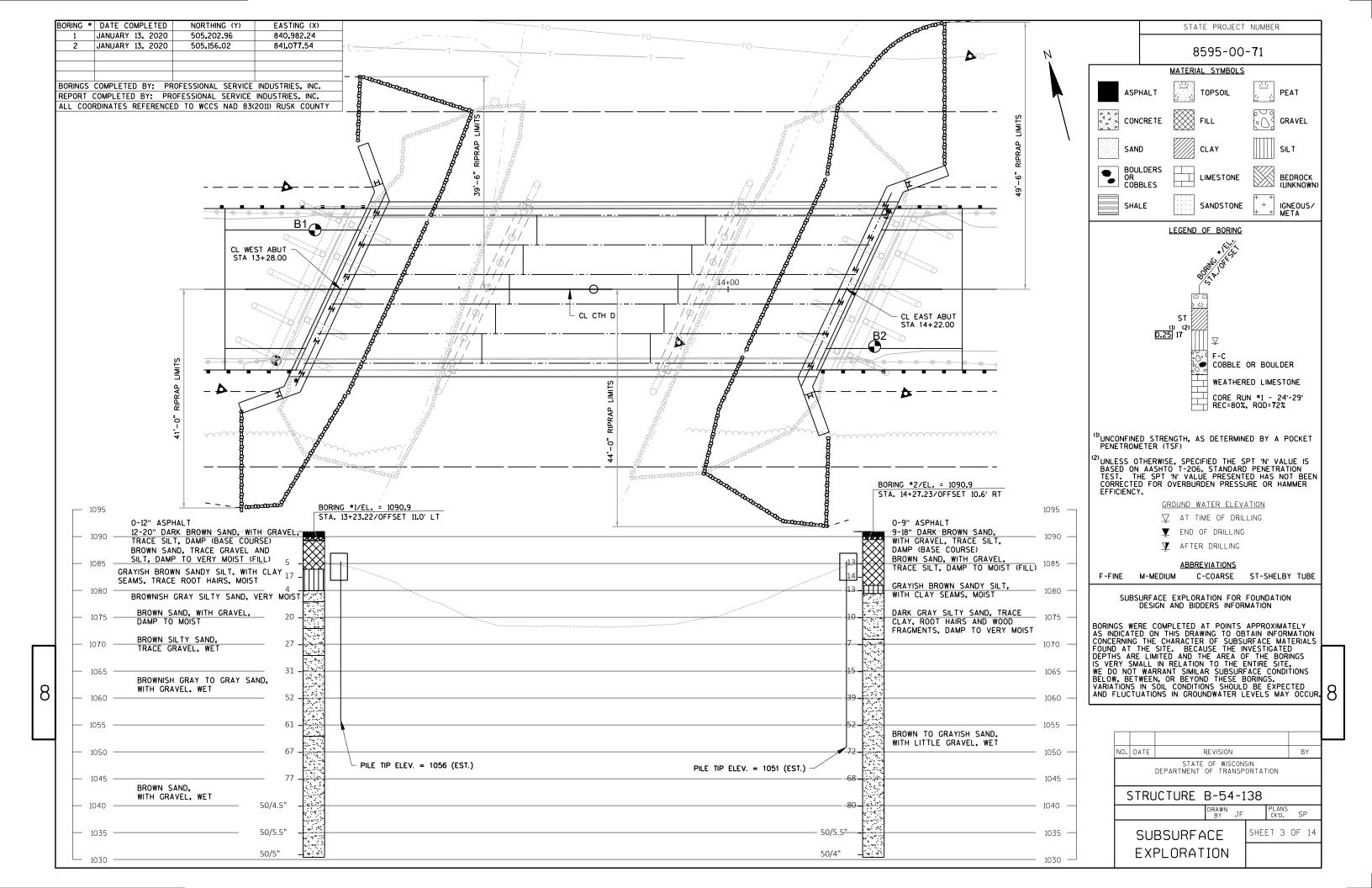
NO. DATE STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

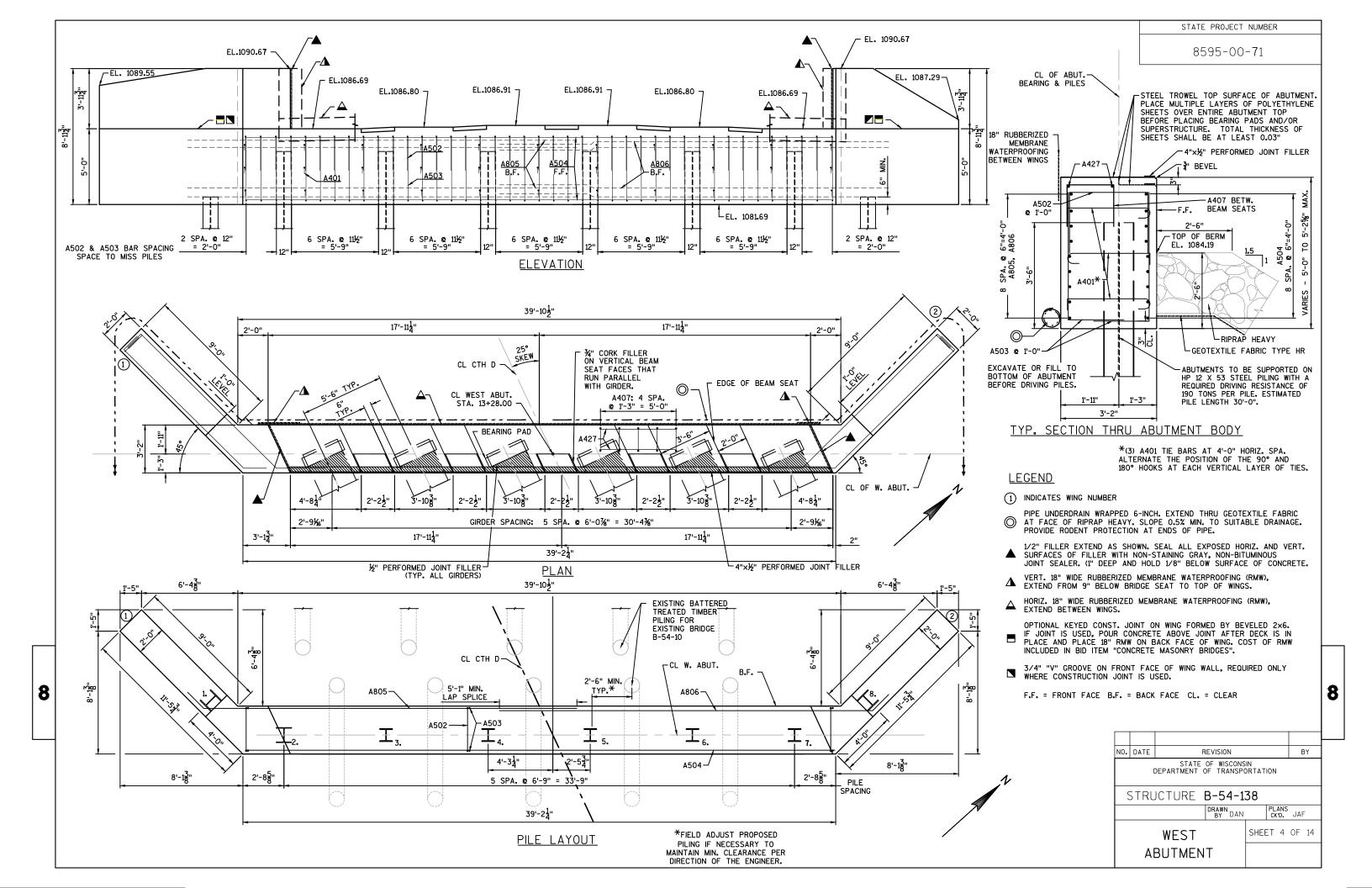
STRUCTURE B-54-138

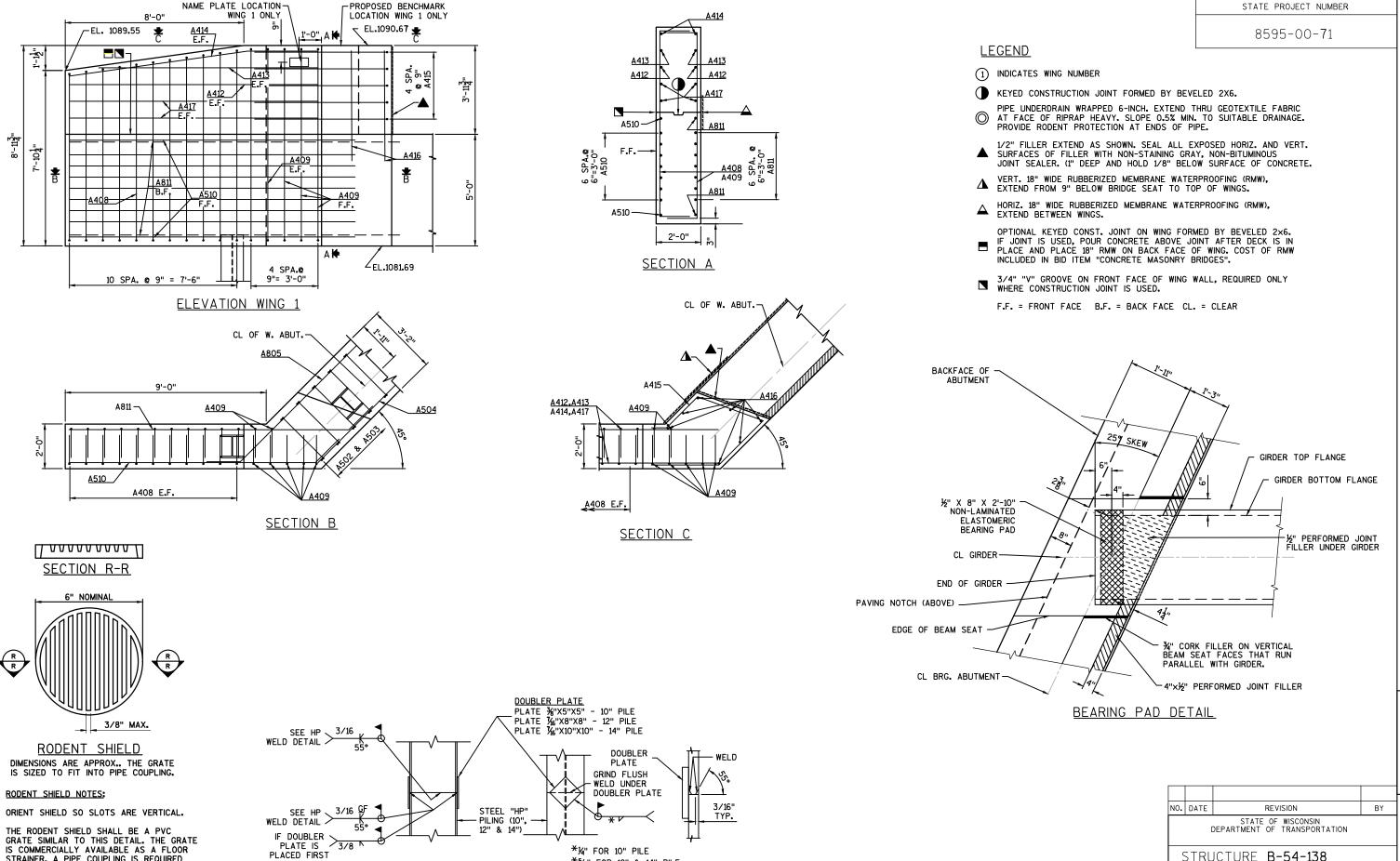
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CROSS SECTION & QUANTITIES

SP SHEET 2 OF 14 8







*5/6" FOR 12" & 14" PILE

HP WELD DETAIL

H PILE SPLICE DETAIL

STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO

THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH

TWO OR MORE NO.10 X 1-INCH STAINLESS

"PIPE UNDERDRAIN WRAPPED 6-INCH".

STEEL SHEET METAL SCREWS. THE RODENT SHIELD SHALL BE INCLUDED IN THE BID ITEM

8595-00-71

BILL OF BARS

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
A401		33	3'-8"	Х		ABUT. BODY TIE BARS
A502		41	6'-9"	Х		ABUT. BODY HORIZ. TOP
A503		82	6'-3"	Х		ABUT. BODY VERT.
A504		9	38-10"			ABUT. BODY HORIZ. F.F.
A805		9	26'-3"	Х		ABUT. BODY HORIZ. B.F.
A806		9	26'-3"	Х		ABUT. BODY HORIZ. B.F.
A407		25	4'-6"	Х		ABUT. BODY VERT. BETW. SEATS
A408	Х	22	10'-5"	Х	Х	WING 1 VERT. E.F.
A409	Х	14	11'-0"	Х		WINGS 1 & 2 VERT. E.F.
A510	Х	9	12'-6"	Х		WING 1 HORIZ. F.F.
A811	Х	9	14'-0"	Х		WING 1 HORIZ. B.F.
A412	Х	2	11'-1"			WING 1 HORIZ. E.F.
A413	Х	2	9'-9"			WING 1 HORIZ. E.F.
A414	Х	2	11'-2"	Х		WING 1 DIAGONAL E.F.
A415	Х	5	11'-4"	Х		WING 1 HORIZ.
A416	Х	14	5'-0"			WINGS 1 & 2 VERT.
A417	Х	4	11'-1"			WING 1 HORIZ. E.F.
A418	Х	5	9'-0"	Х		WING 2 HORIZ.
A419	Х	2	10'-6"	Х		WING 2 DIAGONAL E.F.
A420	Х	22	9'-3"	Х	Х	WING 2 VERT. E.F.
A421	Х	2	4'-11"			WING 2 HORIZ. E.F.
A422	Х	2	6'-11"			WING 2 HORIZ. E.F.
A423	Х	2	8'-11"			WING 2 HORIZ. E.F.
A424	Х	2	10'-6"			WING 2 HORIZ. E.F.
A525	Х	9	12'-6"	Х		WING 2 HORIZ. F.F.
A826	Х	9	14'-0"	Х		WING 2 HORIZ. B.F.
A427		10	5'-0"			ABUT. BODY HORIZ. BETW. SEATS

- 1. BAR TABLE APPLIES TO WEST ABUTMENT ONLY.
 2. THE FIRST OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE.
 BAR DIMENSIONS ARE OUT TO OUT OF BAR.
- LENGTH SHOWN IS AN AVERAGE LENGTH TO BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

LEGEND

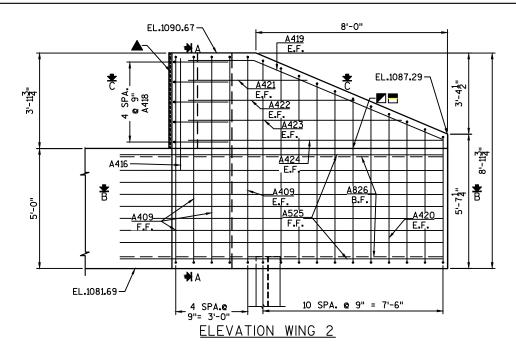
- (1) INDICATES WING NUMBER
- (KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2X6.
- PIPE UNDERDRAIN WRAPPED 6-INCH. EXTEND THRU GEOTEXTILE FABRIC AT FACE OF RIPRAP HEAVY. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. PROVIDE RODENT PROTECTION AT ENDS OF PIPE.
- 1/2" FILLER EXTEND AS SHOWN, SEAL ALL EXPOSED HORIZ, AND VERT. SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINOUS JOINT SEALER, (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.
- VERT. 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING (RMW), EXTEND FROM 9" BELOW BRIDGE SEAT TO TOP OF WINGS.
- HORIZ. 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING (RMW), EXTEND BETWEEN WINGS.
- OPTIONAL KEYED CONST. JOINT ON WING FORMED BY BEVELED 2×6. IF JOINT IS USED, POUR CONCRETE ABOVE JOINT AFTER DECK IS IN PLACE AND PLACE 18" RMW ON BACK FACE OF WING. COST OF RMW INCLUDED IN BID ITEM "CONCRETE MASONRY BRIDGES".
- 3/4" "V" GROOVE ON FRONT FACE OF WING WALL, REQUIRED ONLY WHERE CONSTRUCTION JOINT IS USED.

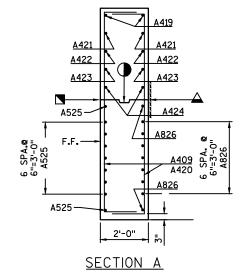
F.F. = FRONT FACE B.F. = BACK FACE CL. = CLEAR

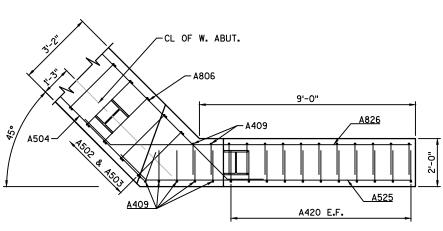
2'-10" <u> A502</u>

NO.	DATE		F	REVISION			E	3Y		
	[DEPAR		OF WISCONS OF TRANSPO		ION				
	STRL	JCTL	JRE	B-54-1	38					
				DRAWN BY DAN		PLANS CK'D.	JAF	:		
١	VES	ΤΔ	BUT	MENT	SHE	ET 6	OF	14		
۱ ا	VING	2	DET	AILS						

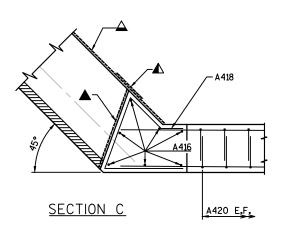
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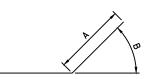
SECTION B



BAR SERIES TABLE

MARK	NO. REQ'D.	LENGTH
A408	2 SERIES OF 11	9'-11" TO 10'-11"
A420	2 SERIES OF 11	7 '-8" TO 10'-10"

BUNDLE AND TAG EACH SERIES SEPARATELY

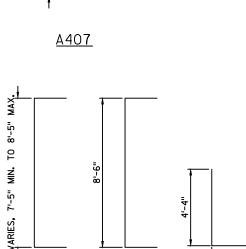


MARK	Α	В
A805	1'-6"	45°
A806	1'-6"	45°
A510	11-0"	45°
A811	12'-6"	45°
A414	8'-1"	8°
A419	8'-6"	23°
A525	11'-0"	45°
A826	12'-6"	45°



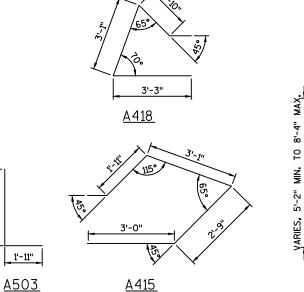
1'-4"

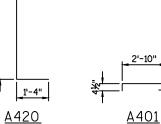
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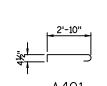


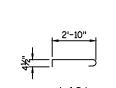
1'-4"

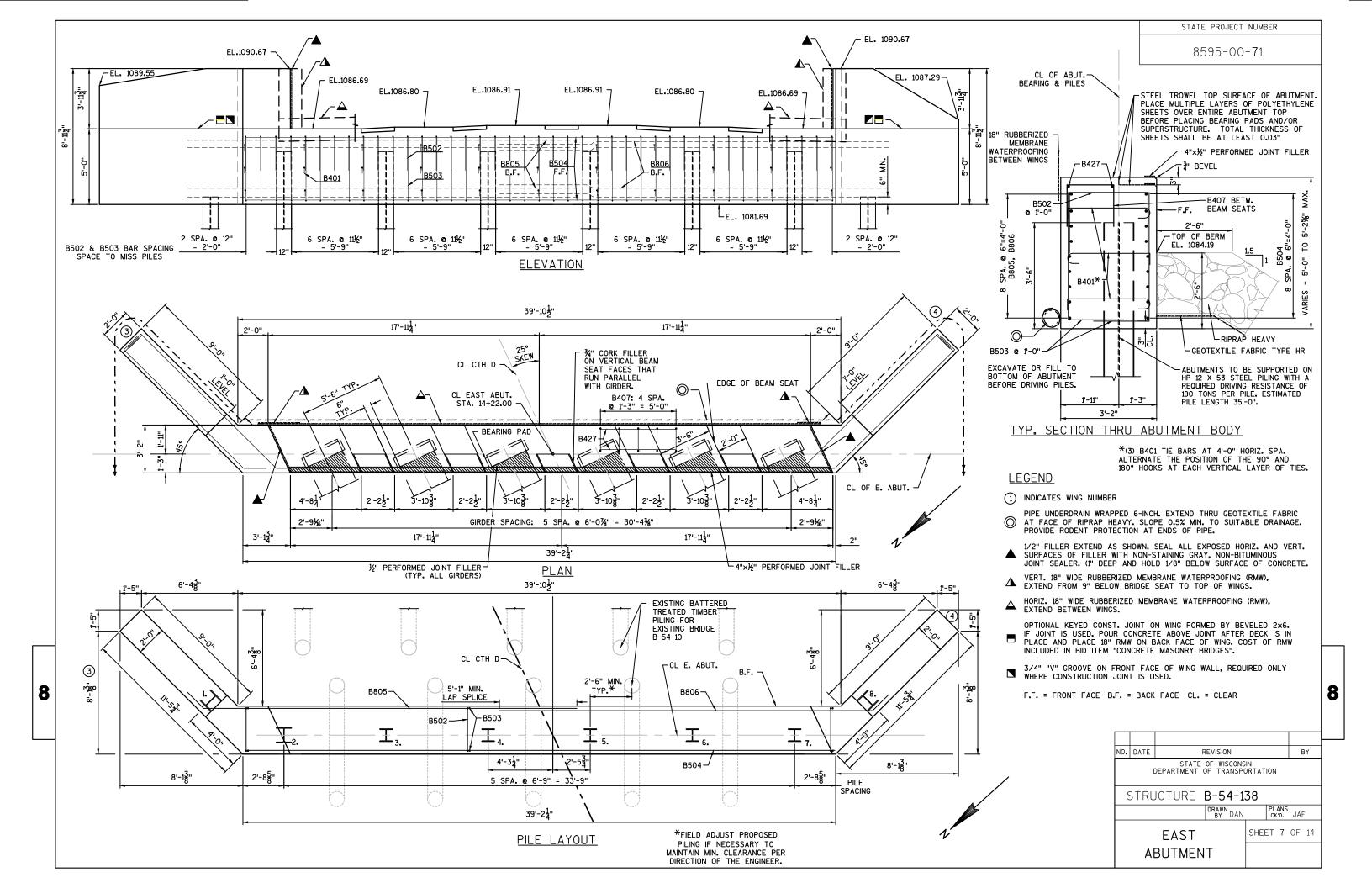
A409

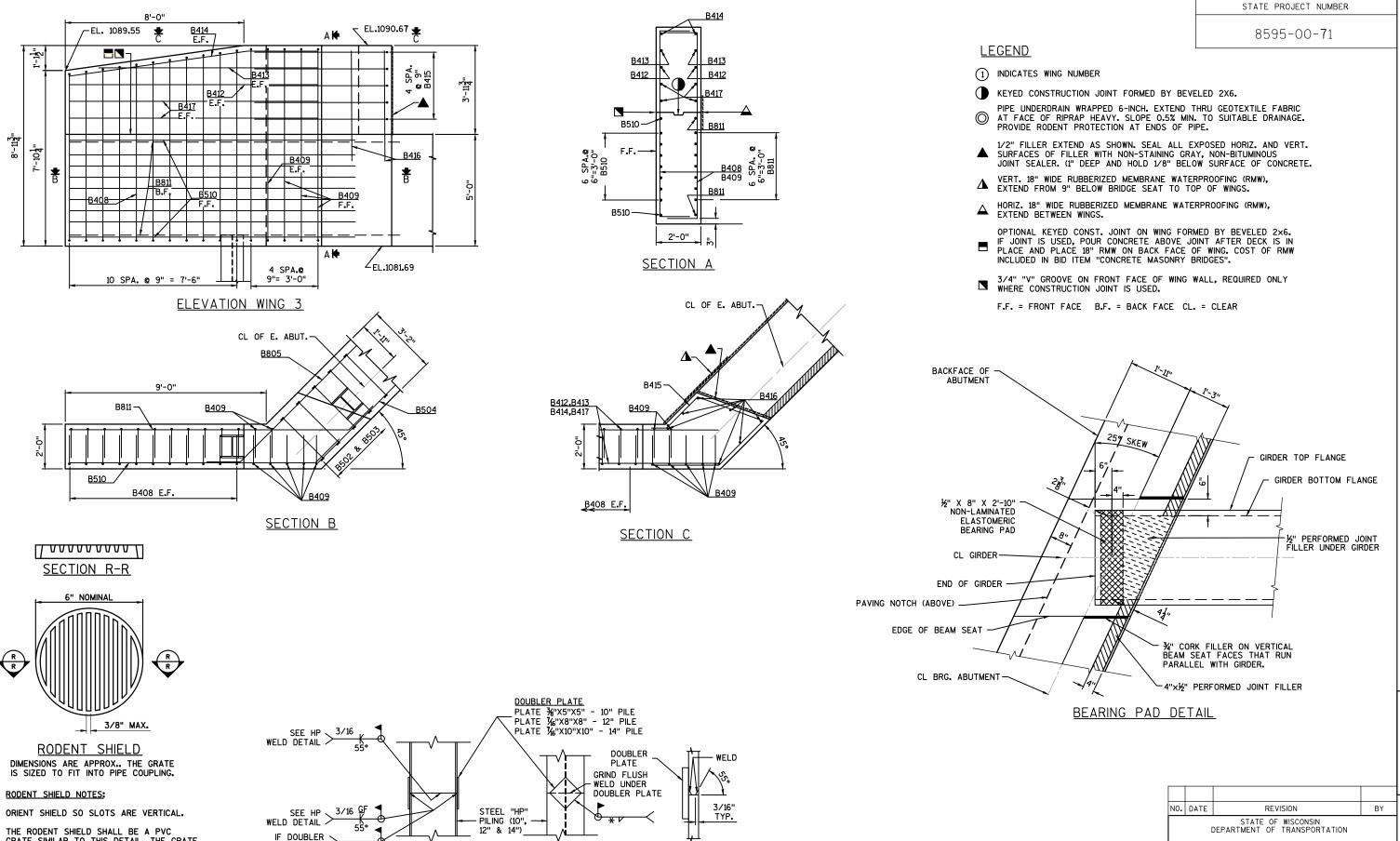












*14" FOR 10" PILE

H PILE SPLICE DETAIL

*5/6" FOR 12" & 14" PILE

HP WELD DETAIL

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 PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH

TWO OR MORE NO.10 X 1-INCH STAINLESS

"PIPE UNDERDRAIN WRAPPED 6-INCH".

STEEL SHEET METAL SCREWS. THE RODENT SHIELD SHALL BE INCLUDED IN THE BID ITEM PLATE IS 3/8
PLACED FIRST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-54-138 PLANS CK'D. JAF SHEET 8 OF 14 EAST ABUTMENT WING 3 DETAILS

8595-00-71

BILL OF BARS

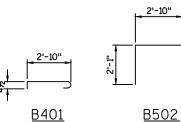
BAR	COAT	NO.	LENGTH	BENT	BAR	LOCATION		
MARK	00	REQ'D	LLINOTTI	DENT	SERIES	LUCATION		
B401		33	3'-8"	Х		ABUT. BODY TIE BARS		
B502		41	6'-9"	Х		ABUT. BODY HORIZ. TOP		
B503		82	6'-3"	Х		ABUT. BODY VERT.		
B504		9	38-10"			ABUT. BODY HORIZ. F.F.		
B805		9	26'-3"	Х		ABUT. BODY HORIZ. B.F.		
B806		9	26'-3"	Х		ABUT. BODY HORIZ. B.F.		
B407		25	4'-6"	Х		ABUT. BODY VERT. BETW. SEATS		
B408	Х	22	10'-5"	Х	Х	WING 3 VERT. E.F.		
B409	Х	14	11'-0"	Х		WINGS 3 & 4 VERT. E.F.		
B510	X	9	12'-6"	Х		WING 3 HORIZ. F.F.		
B811	Х	9	14'-0"	Х		WING 3 HORIZ. B.F.		
B412	X	2	11'-1"			WING 3 HORIZ. E.F.		
B413	Х	2	9'-9"			WING 3 HORIZ. E.F.		
B414	X	2	11'-2"	Х		WING 3 DIAGONAL E.F.		
B415	Х	5	11'-4"	Х		WING 3 HORIZ.		
B416	Х	14	5'-0"			WINGS 3 & 4 VERT.		
B417	Х	4	11'-1"			WING 3 HORIZ. E.F.		
B418	Х	5	9'-0"	Х		WING 4 HORIZ.		
B419	X	2	10'-6"	Х		WING 4 DIAGONAL E.F.		
B420	Х	22	9'-3"	Х	Х	WING 4 VERT. E.F.		
B421	Х	2	4'-11"			WING 4 HORIZ. E.F.		
B422	Х	2	6'-11"			WING 4 HORIZ. E.F.		
B423	Х	2	8'-11"			WING 4 HORIZ. E.F.		
B424	Х	2	10'-6"			WING 4 HORIZ. E.F.		
B525	Х	9	12'-6"	Х		WING 4 HORIZ. F.F.		
B826	Х	9	14'-0"	Х		WING 4 HORIZ. B.F.		
B427		10	5'-0"			ABUT. BODY HORIZ. BETW. SEATS		

- 1. BAR TABLE APPLIES TO EAST ABUTMENT ONLY.
 2. THE FIRST OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE.
 BAR DIMENSIONS ARE OUT TO OUT OF BAR.
- LENGTH SHOWN IS AN AVERAGE LENGTH TO BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

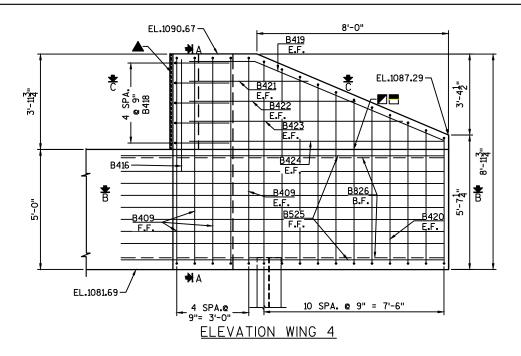
LEGEND

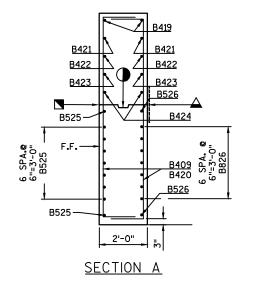
- 1) INDICATES WING NUMBER
- MEYED CONSTRUCTION JOINT FORMED BY BEVELED 2X6.
- PIPE UNDERDRAIN WRAPPED 6-INCH. EXTEND THRU GEOTEXTILE FABRIC AT FACE OF RIPRAP HEAVY. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. PROVIDE RODENT PROTECTION AT ENDS OF PIPE.
- 1/2" FILLER EXTEND AS SHOWN, SEAL ALL EXPOSED HORIZ, AND VERT. SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINOUS JOINT SEALER, (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.
- VERT. 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING (RMW), EXTEND FROM 9" BELOW BRIDGE SEAT TO TOP OF WINGS.
- HORIZ. 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING (RMW), A HORIZ. 18 WIDE ROBBETTE RESERVED BETWEEN WINGS.
- OPTIONAL KEYED CONST. JOINT ON WING FORMED BY BEVELED 2×6. IF JOINT IS USED, POUR CONCRETE ABOVE JOINT AFTER DECK IS IN PLACE AND PLACE 18" RMW ON BACK FACE OF WING, COST OF RMW INCLUDED IN BID ITEM "CONCRETE MASONRY BRIDGES".
- 3/4" "V" GROOVE ON FRONT FACE OF WING WALL, REQUIRED ONLY WHERE CONSTRUCTION JOINT IS USED.

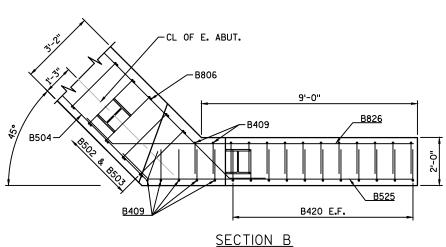
F.F. = FRONT FACE B.F. = BACK FACE CL. = CLEAR

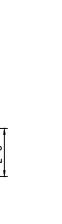


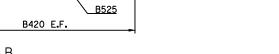
							l						
	NO.	DATE	F	EVISION			В	Υ					
		STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION											
	()	STRL	JCTURE I	B-54-1	38								
				DRAWN BY DAN		PLANS CK'D.	JAF	:					
2	Е	EAS	Γ ABUT	MENT	SHE	ET 9	OF	14					
2	۷	VING	4 DET	AILS									







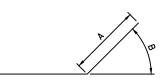




BAR SERIES TABLE

MARK	NO. REQ'D.	LENGTH
B408	2 SERIES OF 11	9'-11" TO 10'-11"
B420	2 SERIES OF 11	7'-8" TO 10'-10"

BUNDLE AND TAG EACH SERIES SEPARATELY

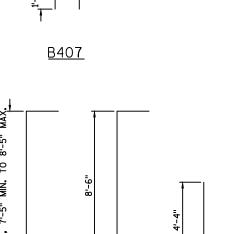


MARK	Α	В
B805	1'-6"	45°
B806	1'-6"	45°
B510	11-0"	45°
B811	12'-6"	45°
B414	8'-1"	8°
B419	8'-6"	23°
B525	11'-0"	45°
B826	12'-6"	45°



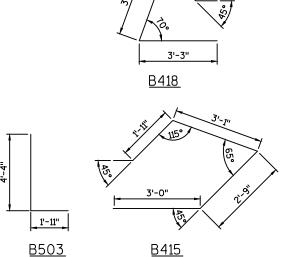
1'-4"

B408



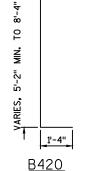
1'-4"

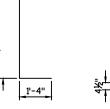
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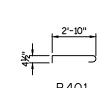


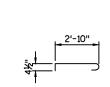
SECTION C

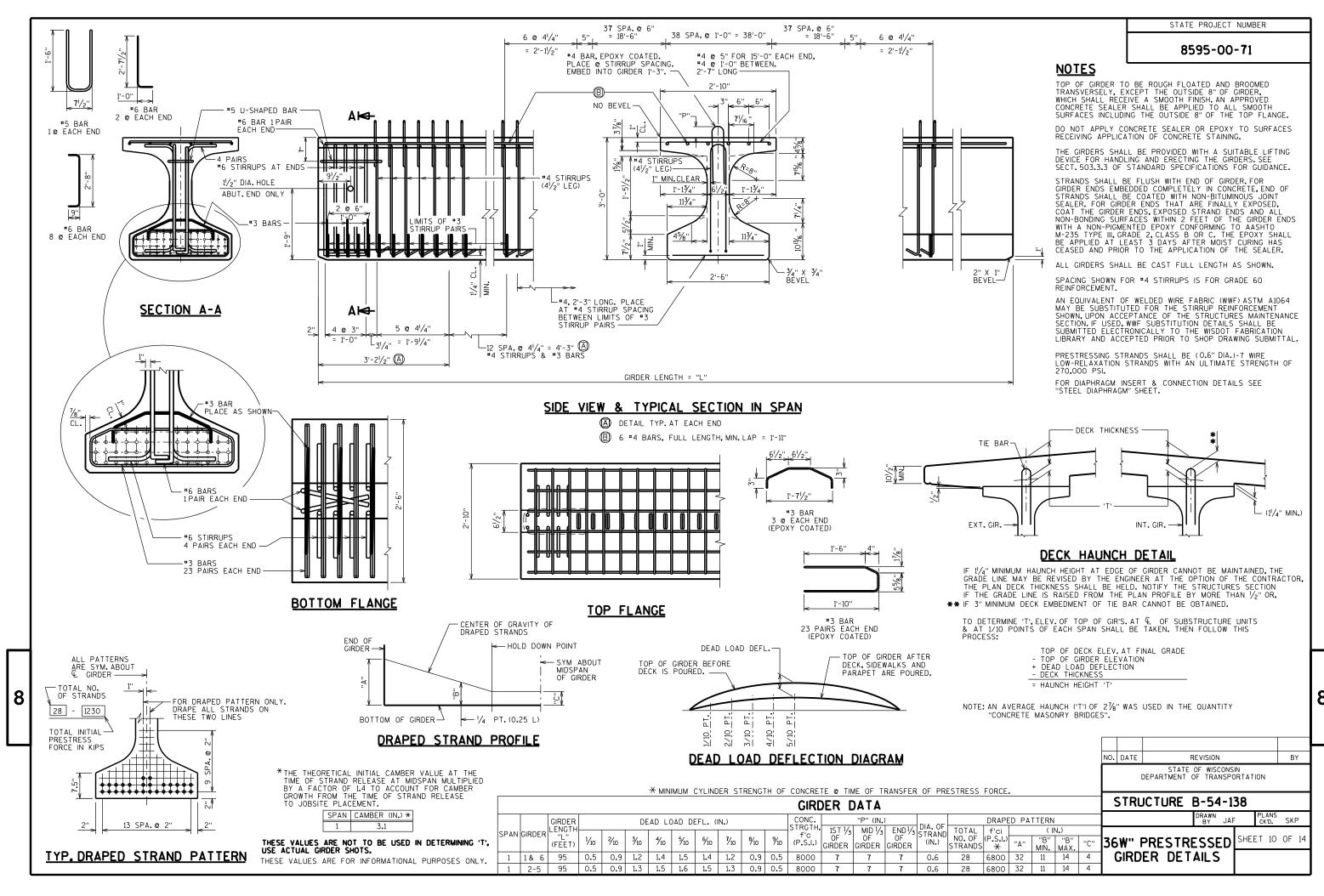
B420 E.F.











8595-00-71

NOTES

ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-54-138", 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

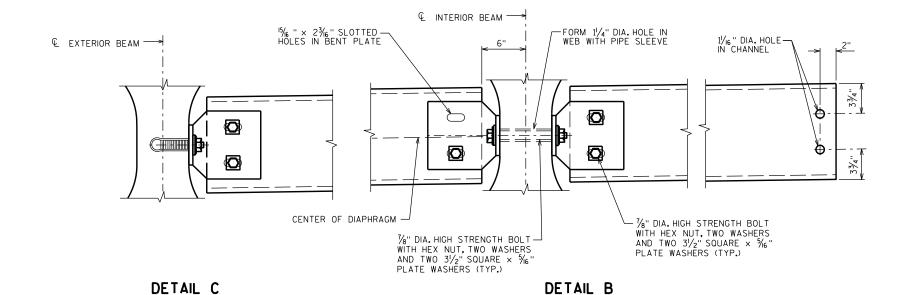
C12×20.7 DIAPHRAGM

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EXTERIOR GIRDER

-SEE DETAIL C

TOP OF DECK -



36W" PRESTRESSED GIRDER

0

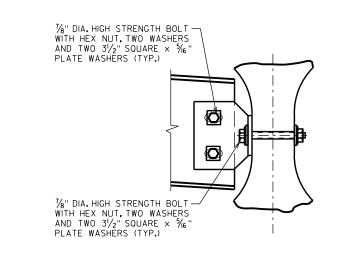
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INTERIOR GIRDER

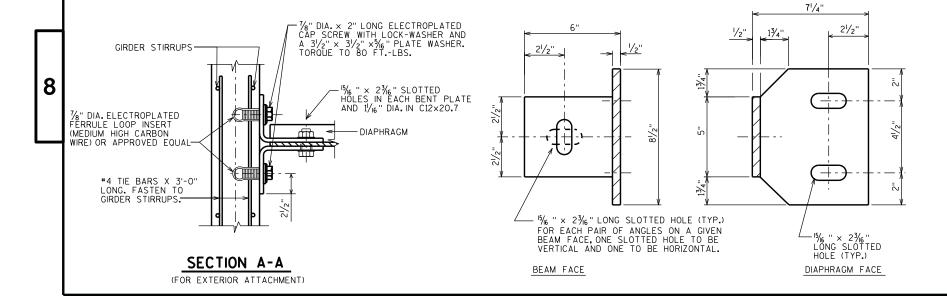
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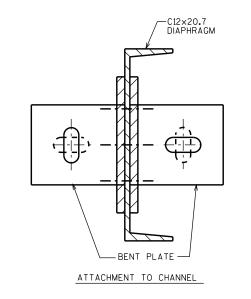
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SEE DETAIL B



SECTION AT INTERIOR GIRDERS THRU DIAPHRAGM FOR SKEW ANGLES > 10°





NO. DATE REVISION BY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STRUCTURE B-54-138

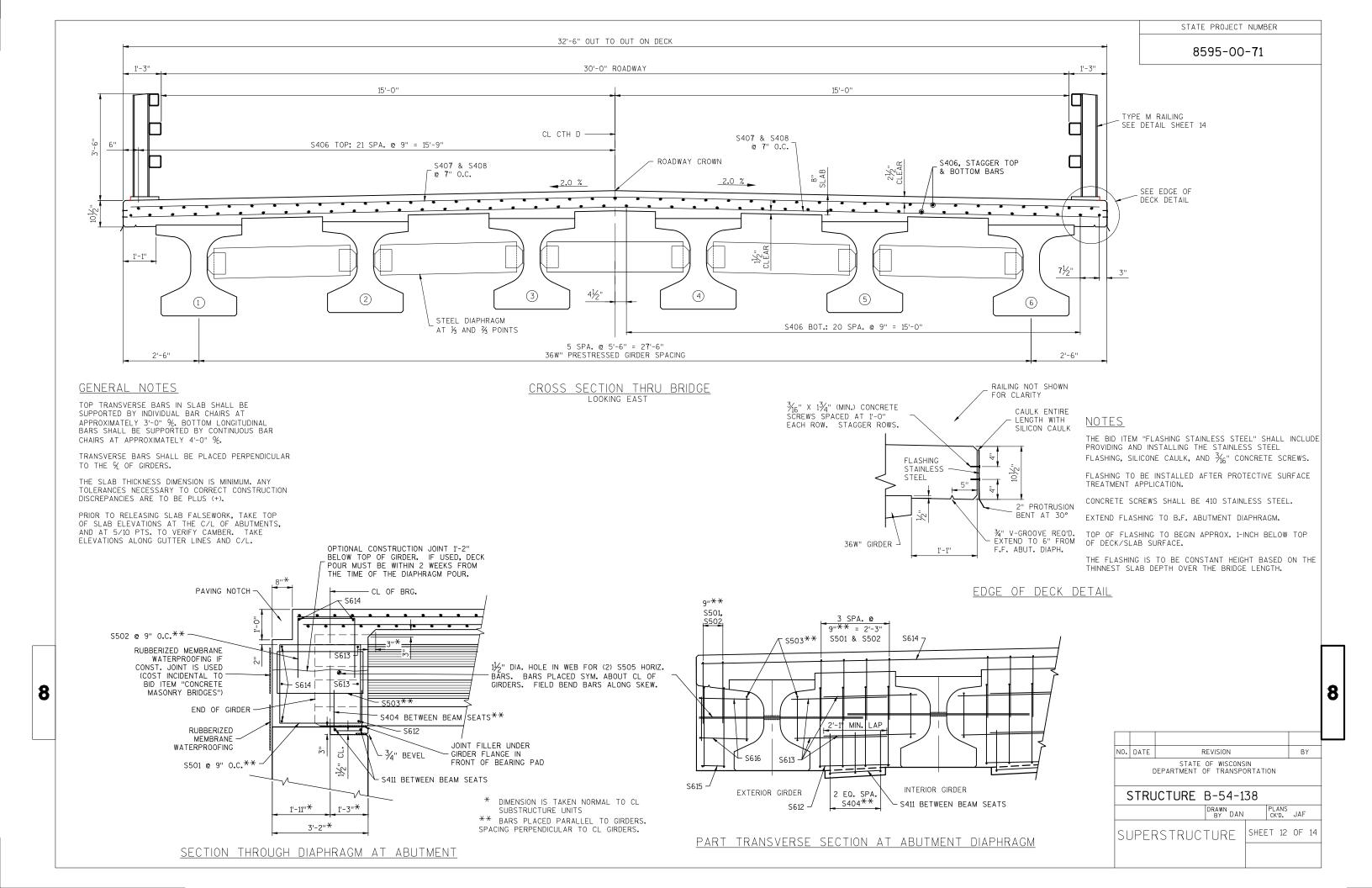
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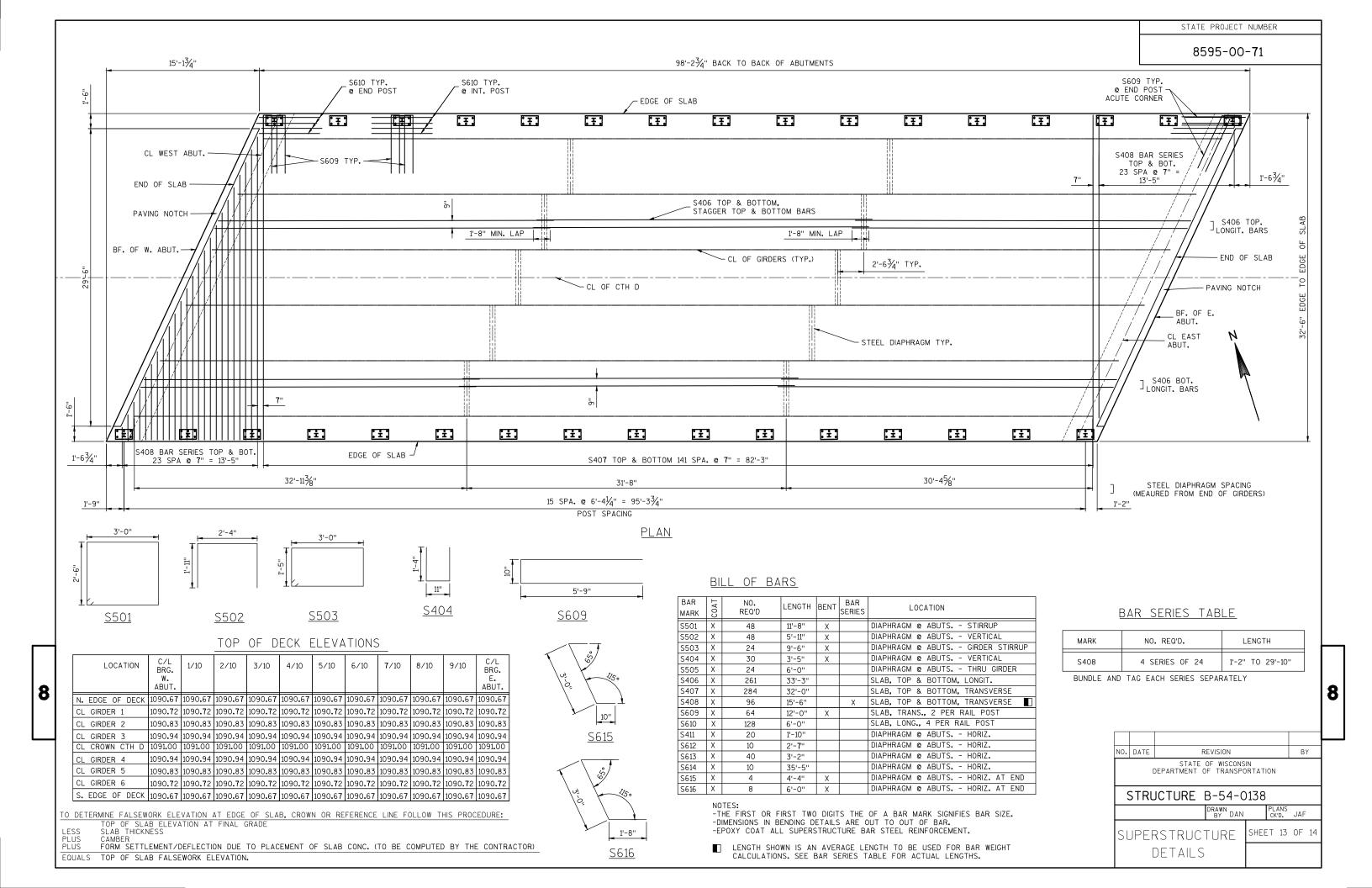
STEEL SHEET 11 OF 14

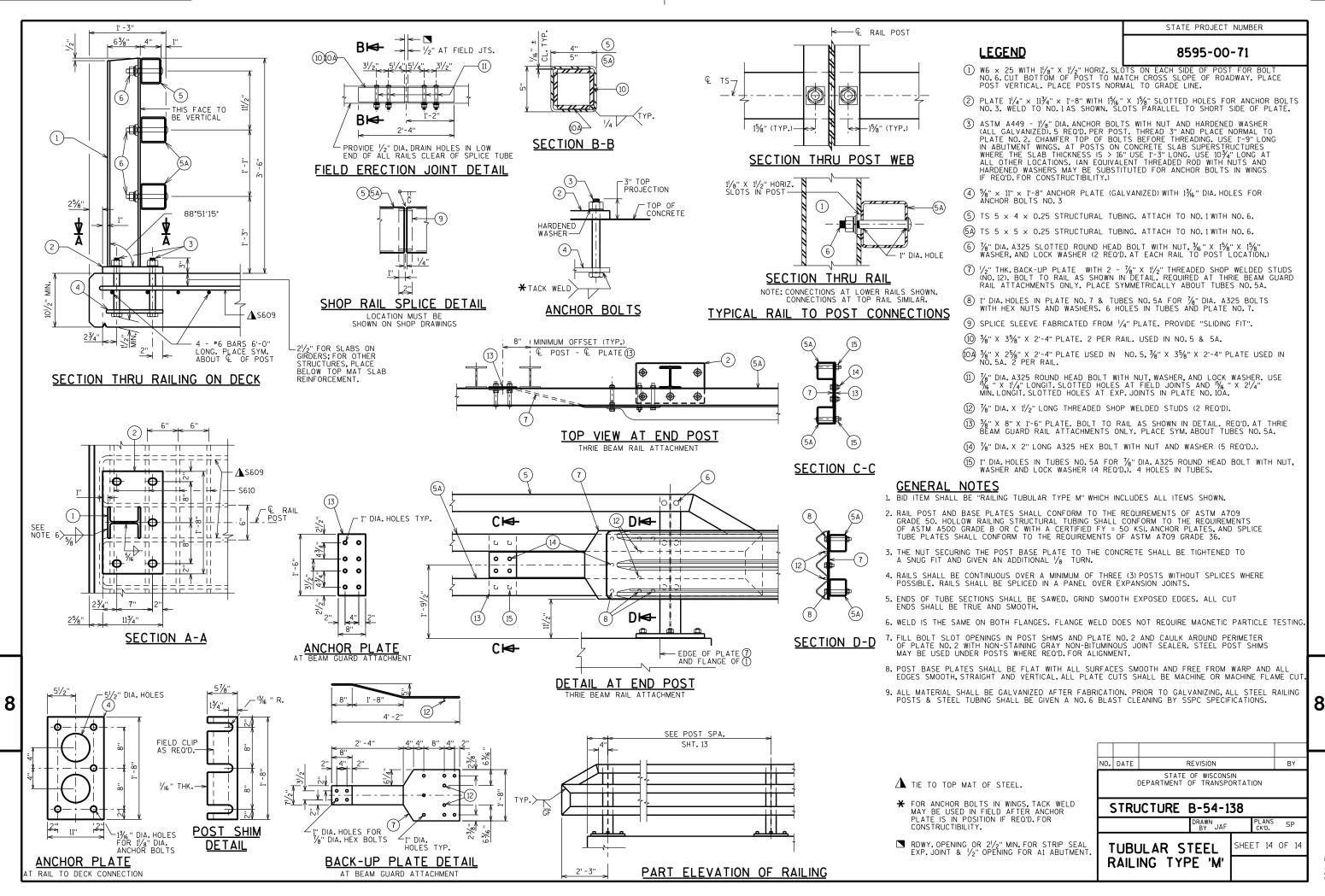
DIAPHRAGM

8

- H







CTH D

			AREA (SF)		INCR	EMENTAL VOL (CY) (UNADJU	JSTED)	CUMULATIVE VOL (CY)			
STATION	DISTANCE	сит	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL	MASS ORDINATE	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1	NOTE 4	NOTE 5	
10+98	0	7.80	0.00	0.00	0	0	0	0	0	0	
11+45	47	7.13	0.00	0.00	13	0	0	13	0	13	
11+93	48	15.17	0.00	8.28	20	0	7	33	9	24	
12+30	37	7.80	0.59	6.28	16	0	10	49	21	28	
12+43	13	15.76	0.55	5.82	6	1	3	55	25	29	
12+55	12	18.54	2.93	27.53	8	1	7	63	34	27	
12+68	13	18.72	2.75	31.56	9	1	14	72	51	18	
12+75	7	49.45	8.82	32.72	9	1	8	81	61	16	
12+80	5	48.08	8.80	35.24	9	2	6	90	69	15	
12+93	13	45.95	8.74	28.64	23	4	15	113	88	16	
13+06	13	43.06	8.67	16.75	21	4	11	134	101	19	
13+26	20				21	6	14	155	120	15	
BRIDGE								155	120	15	
14+24	0				0	0	0	155	120	15	
14+44	20	41.38	8.95	92.27	30	8	68	185	206	-49	
14+56	12	41.55	8.57	45.25	18	4	31	203	245	-74	
14+71	15	45.56	8.54	40.15	24	5	24	227	275	-85	
14+75	4	48.12	8.52	54.56	7	2	7	234	283	-88	
14+81	6	17.93	2.50	50.17	7	1	12	241	298	-97	
14+96	15	29.21	0.62	24.83	13	1	21	254	325	-112	
15+06	10	9.50	0.62	24.89	7	1	9	261	336	-117	
15+21	15	9.33	0.62	23.31	5	1	13	266	352	-129	
15+67	46	16.34	0.59	15.27	22	1	33	288	393	-149	
16+28	61	17.81	0.00	0.07	39	1	17	327	415	-133	
16+33	5	10.12	0.00	0.06	3	0	0	330	415	-130	
				COLUMN TOTAL	330	45	330				

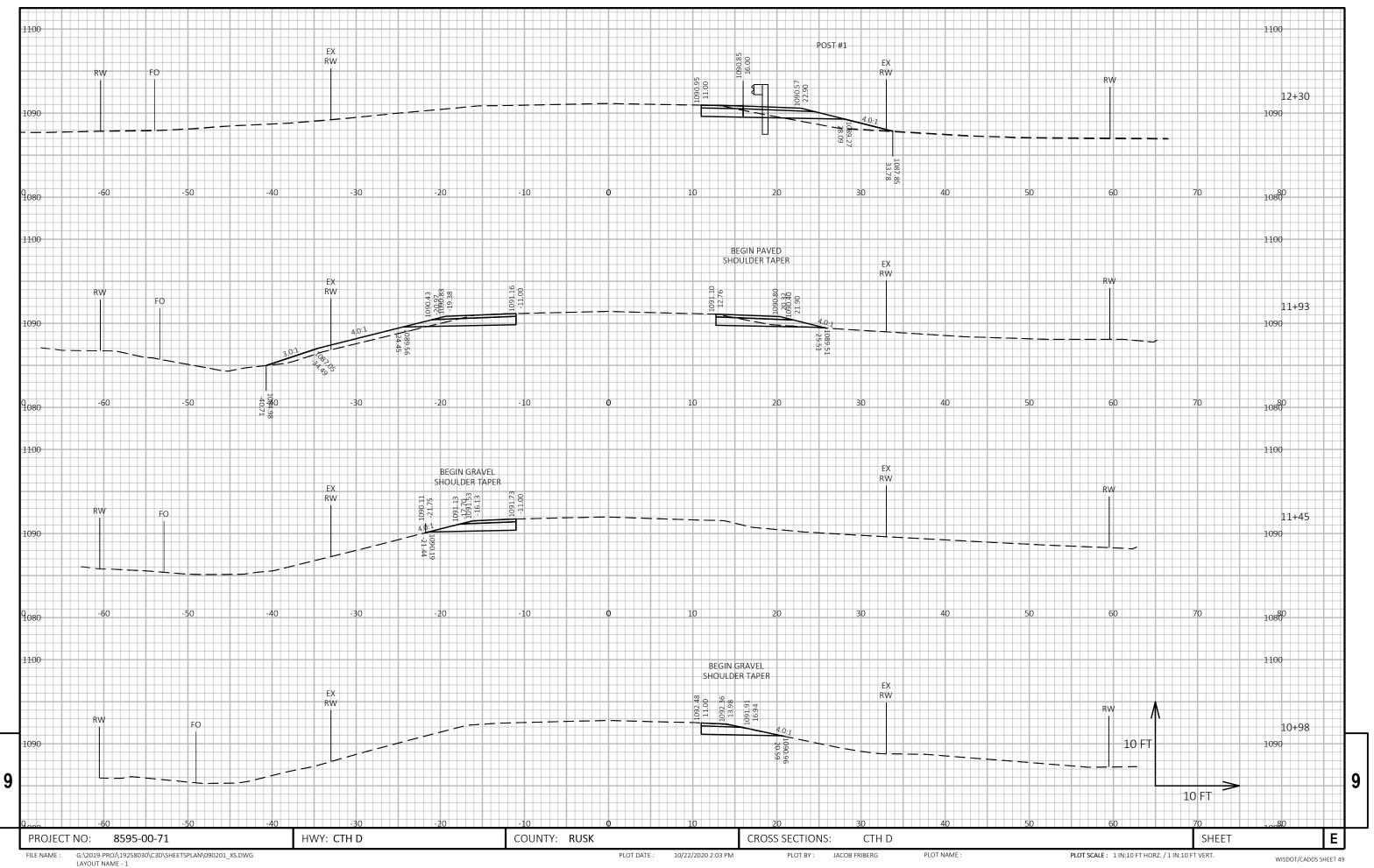
NOTES:	
1-CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED FILL	(FILL) x (FILL FACTOR)
5 - MASS ORDINATE	[CUT - SALVAGED PAVT - (FILL x FILL FACTOR)]

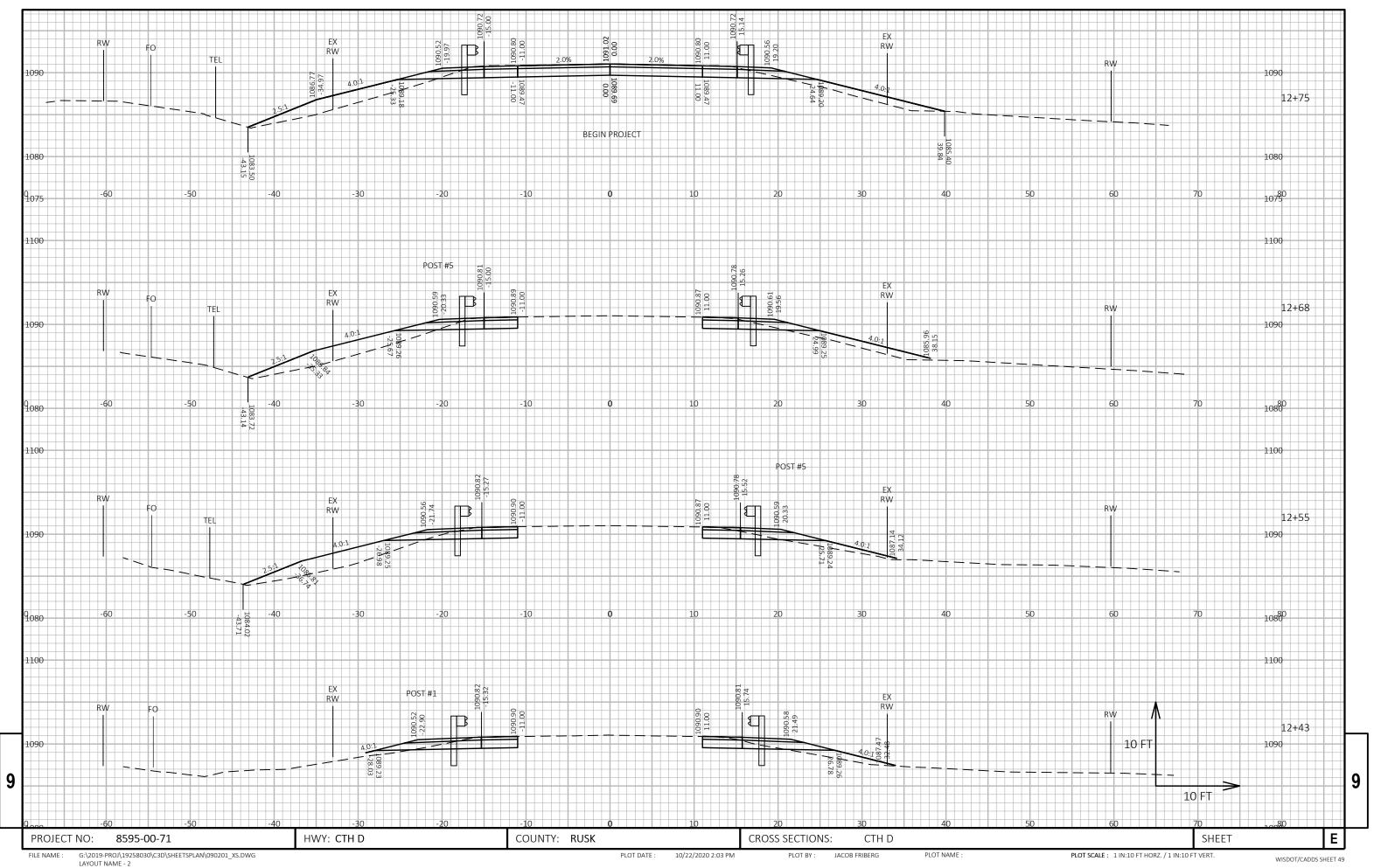
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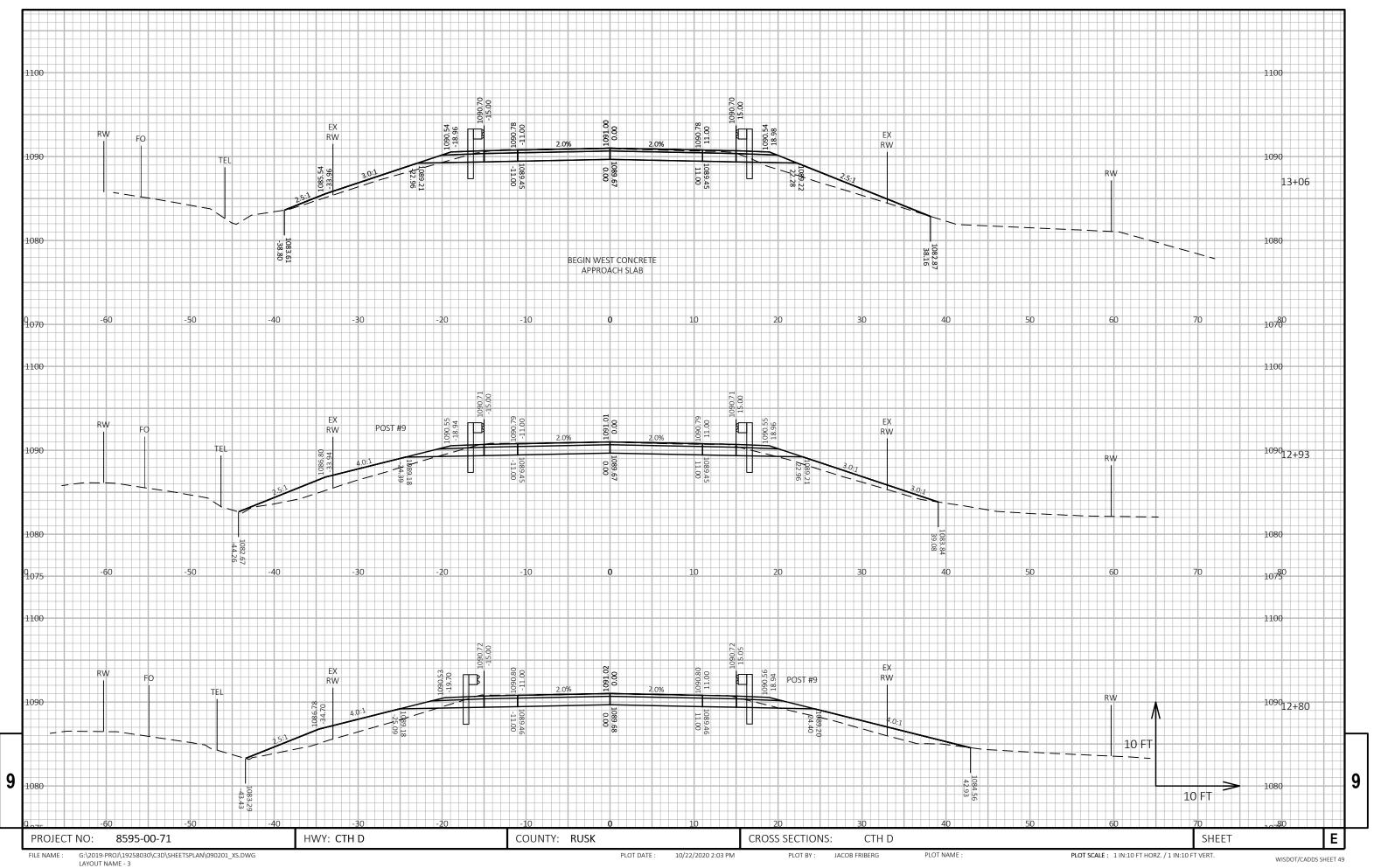
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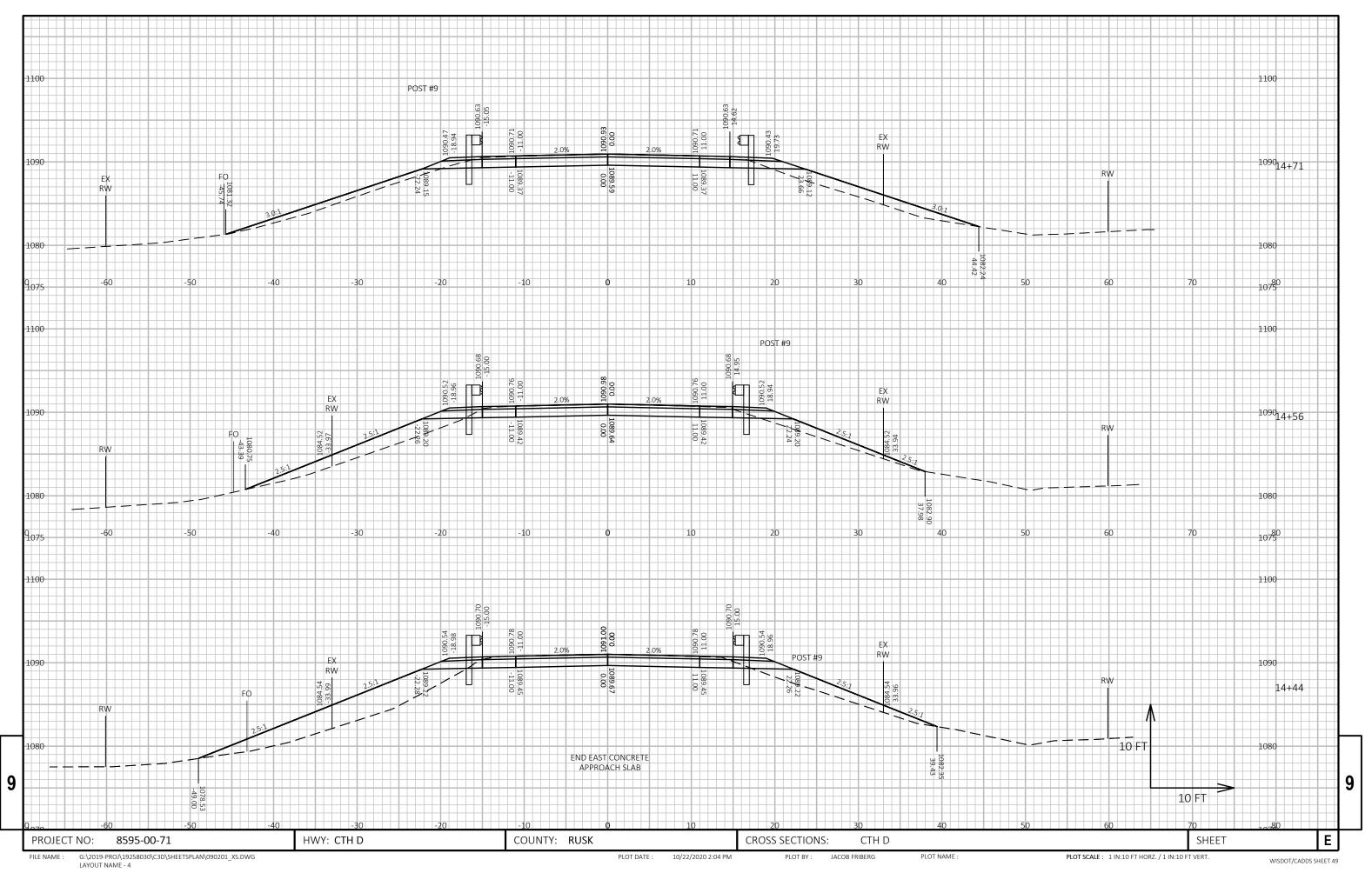
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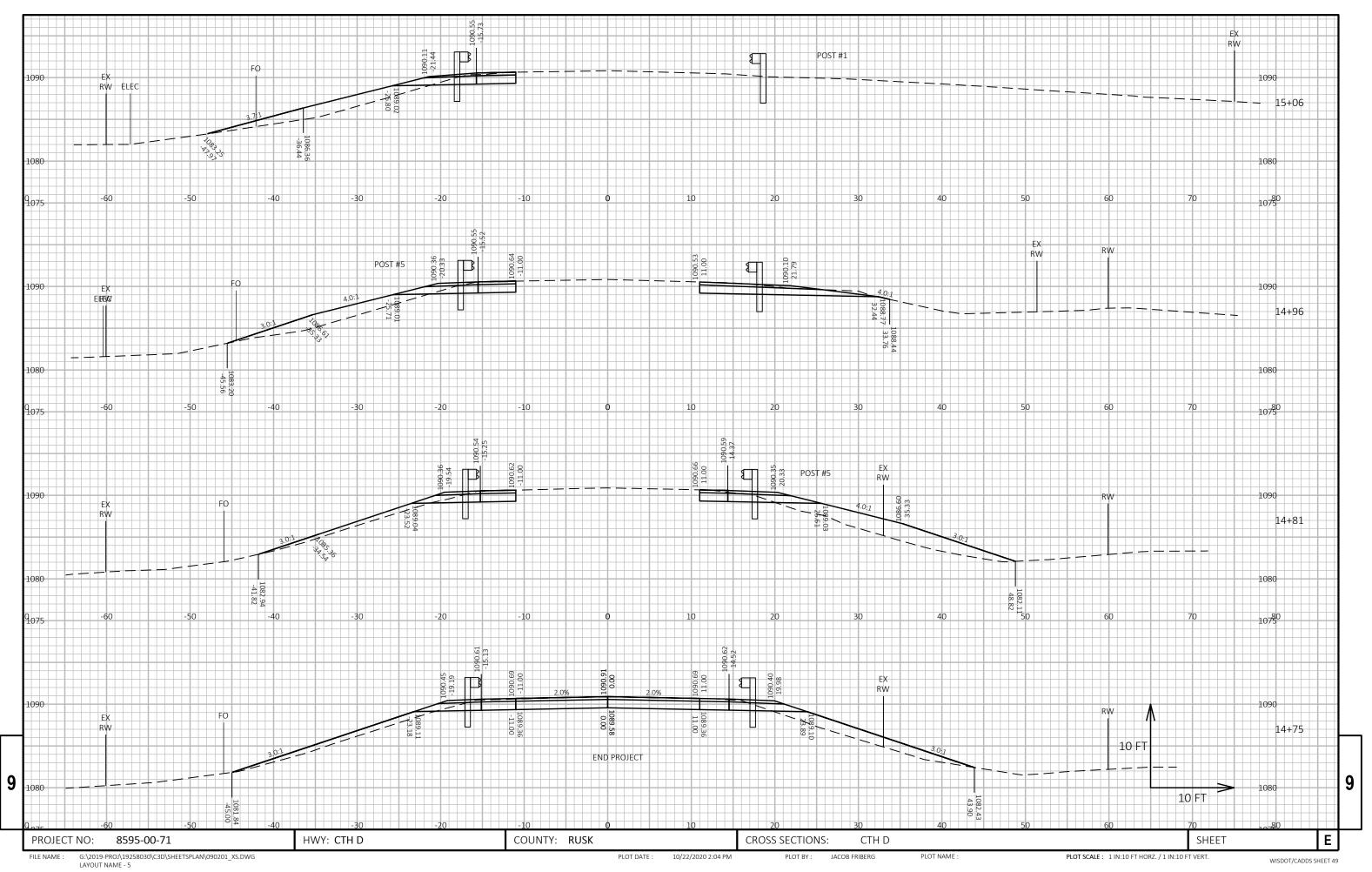
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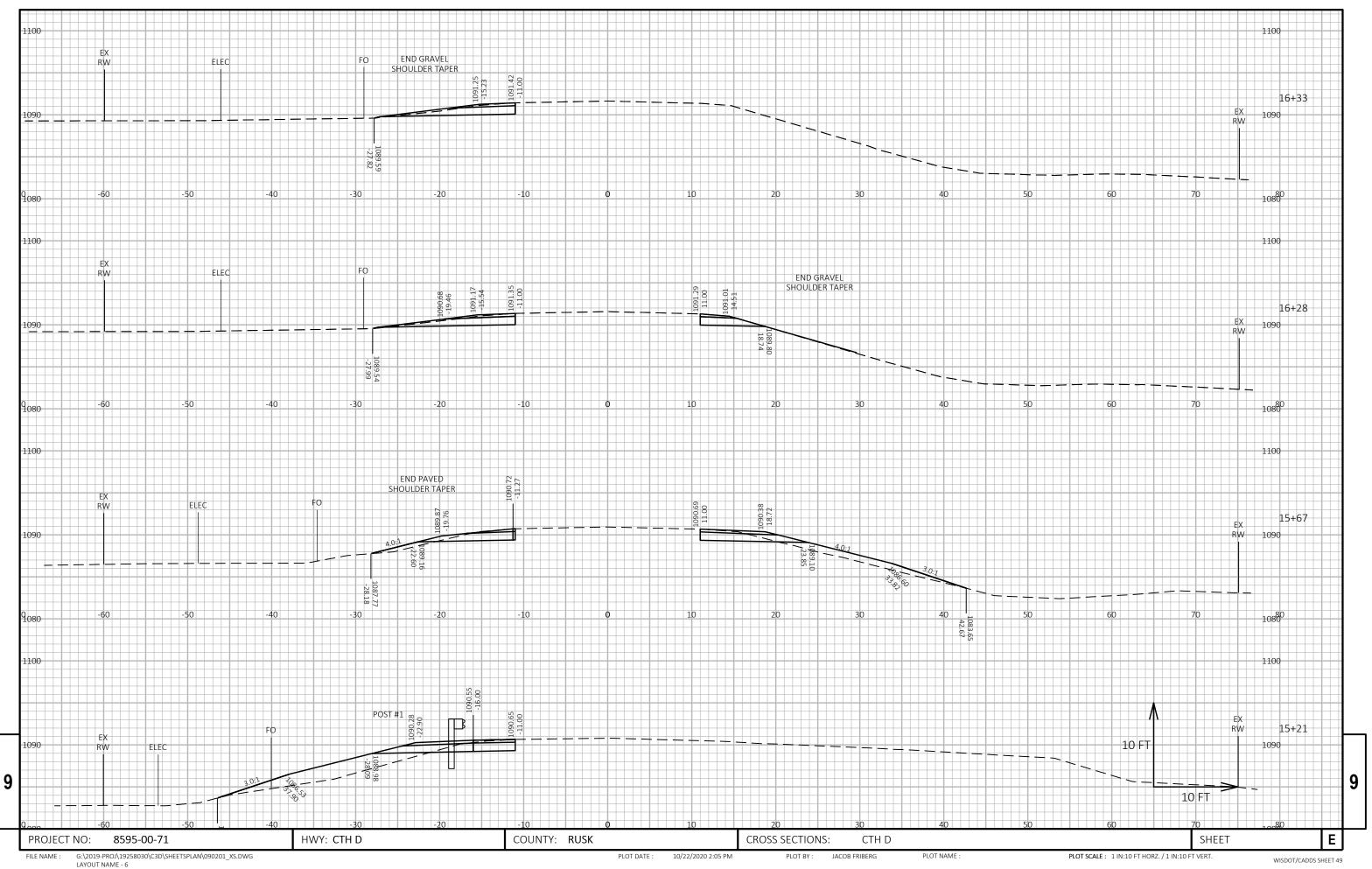




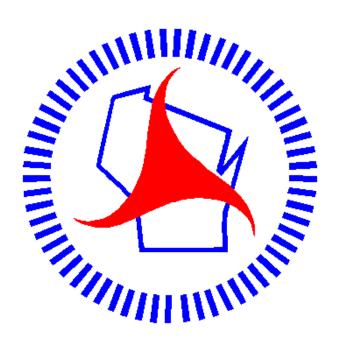








Notes



Wisconsin Department of Transportation

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