ORDER OF SH	EETS	
Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

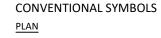
TOTAL SHEETS =

Feb 13, 2024

70

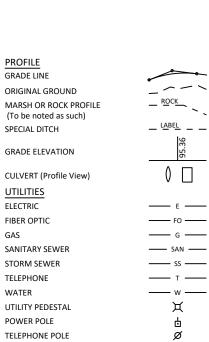
DESIGN DESIGNATION

A.A.D.T. A.A.D.T. D.H.V. D.D. T.	2024 2044	= = =	60/40
D.D.		=	60/40
т.		=	10% (ASSUMED)
DESIGN SPEED		=	55 MPH
ESALS		=	80,300



WOODED OR SHRUB AREA

# CORPORATE LIMITS <u>///////</u> PROPERTY LINE LOT LINE -----LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT - - -REFERENCE LINE EXISTING CULVERT PROPOSED CULVERT (Box or Pipe) COMBUSTIBLE FLUIDS MARSH AREA



PROFILE

GRADE LINE

UTILITIES

FIBER OPTIC

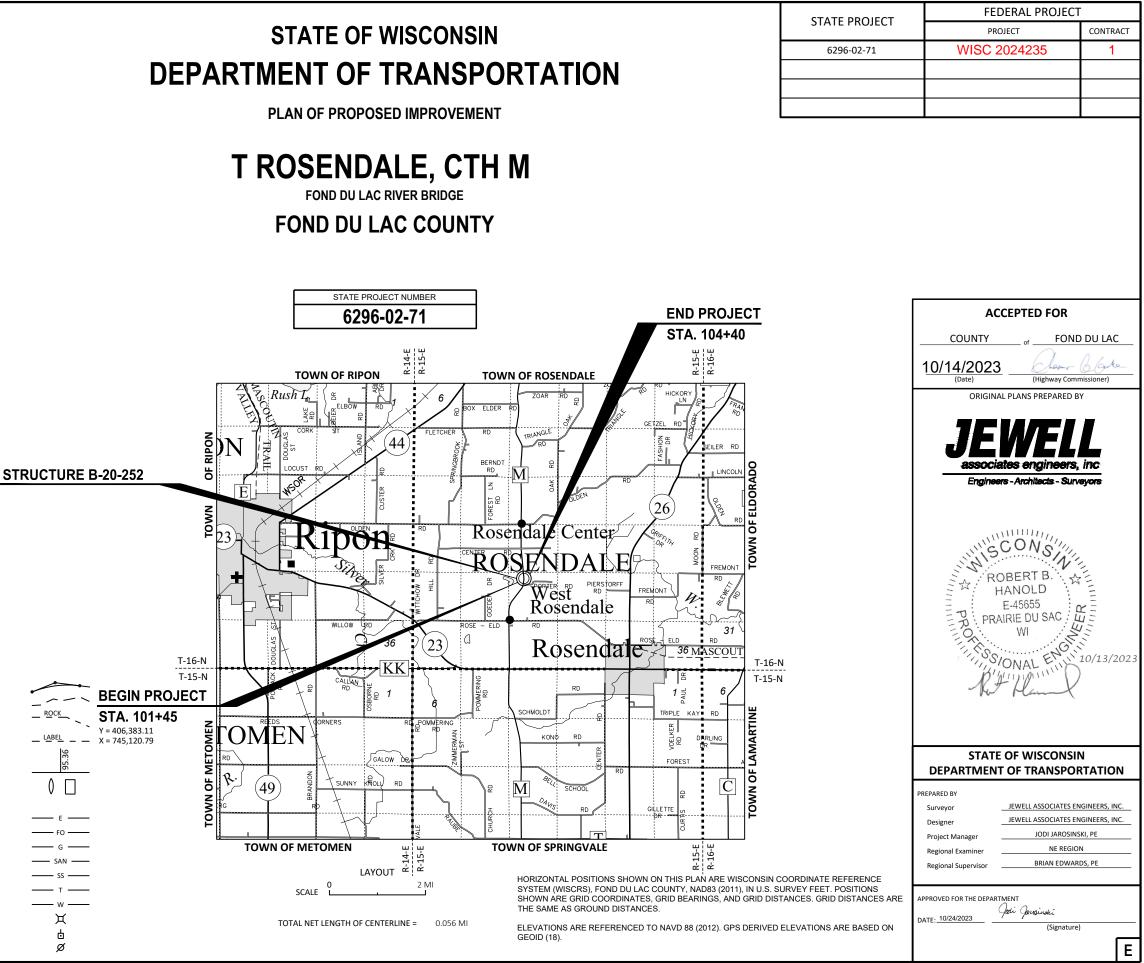
TELEPHONE

WATER

FLECTRIC

GAS

# **STATE OF WISCONSIN**



FILE NAME : S:\PROJECTS\W11649 WISDOT - CTH M BRIDGE FOND DU LAC CO\SHEETSPLAN\W11649 TITLF SHFFT.DW0

 $\triangleright$ 

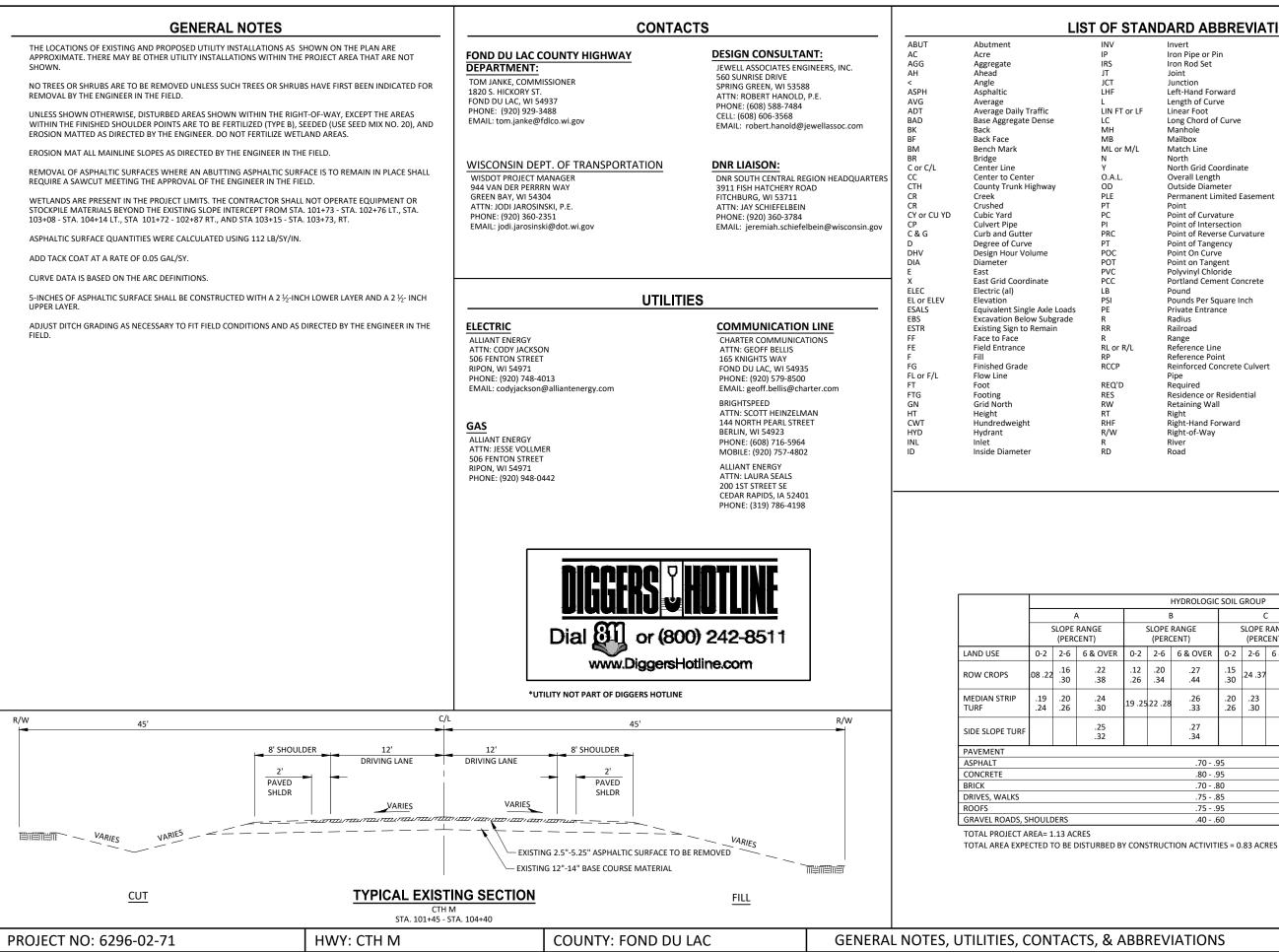
 $\mathbf{C}$ 

gre

PROJECT ID: WITH: N.A.

6296-02-7

\_\_\_\_



PLOT DATE · 10/20/2023 10:11:02 AM PLOT BY COLTON PEPER

# LIST OF STANDARD ABBREVIATIONS

Invert	RDWY	Roadway
Iron Pipe or Pin	SALV	Salvaged
Iron Rod Set	SAN S	Sanitary Sewer
Joint	SEC	Section
Junction	SHLDR	Shoulder
Left-Hand Forward	SHR	Shrinkage
Length of Curve	SW	Sidewalk
Linear Foot	S	South
Long Chord of Curve	SQ	Square
Manhole	SE or SO FT	Square Feet
Mailbox		Square Yard
		Standard
		Standard Detail Drawings
		State Trunk Highways
		Station
		Storm Sewer
		Subgrade
		Superelevation
		Survey Line
		Septic Vent
		Tangent
	-	
		Telephone
		Temporary
		Temporary Interest
		Temporary Limited Easement
	•	Ton
		Town
		Transition
		Transit Line
		Trucks (percent of)
Railroad	TYP	Typical
Range	UNCL	Unclassified
	UG	Underground Cable
Reference Point	USH	United States Highway
Reinforced Concrete Culvert	VAR	Variable
Pipe	V	Velocity or Design Speed
Required	VERT	Vertical
Residence or Residential	VC	Vertical Curve
Retaining Wall	VOL	Volume
Right	WM	Water Main
Right-Hand Forward	WV	Water Valve
Right-of-Way	W	West
River	WB	Westbound
	Iron Pipe or Pin Iron Rod Set Joint Junction Left-Hand Forward Length of Curve Manhole Mailbox Match Line North Grid Coordinate Overall Length Outside Diameter Permanent Limited Easement Point of Curvature Point of Curvature Point of Curvature Point of Reverse Curvature Point of Tangency Point of Tangency Point on Tangent Point On Curve Point On Tangent Polyvinyl Chloride Portland Cement Concrete Pound Pounds Per Square Inch Private Entrance Radius Railroad Range Reference Line Reference Line Reference Curve Pipe Required Residence or Residential Retaining Wall Right Right-Hand Forward	Iron Pipe or PinSALVIron Rod SetSAN SJointSECJunctionSHLDRLeft-Hand ForwardSHRLength of CurveSWLinear FootSLong Chord of CurveSQManholeSF or SQ FTMailboxSY or SQ YDMatch LineSTDNorthSDDNorth Grid CoordinateSTHOverall LengthSTAOutside DiameterSSPermanent Limited EasementSGPoint of CurvatureTPoint of TangencyTELPoint of TangencyTELPoint On CurveTEMPPoint On CarveTEMPPoint Of CorretetPoint Of CorreteTPoint Of CorreteTPoint Of CurvationeTPoint Of Seguare InchTRANSPrivate EntranceTL or T/LRadiusTRafference LineUGReference PointUSHReinforced Concrete CulvertVARPipeVRequiredVERTResidence or ResidentialVCRightWMRightWMWideWM

-									
			HYDROLOGIC	SOIL	GROUP				
		E	3		C	2		D	)
	Ξ,	SLOPE (PERC	RANGE CENT)		SLOPE (PERC	RANGE CENT)		SLOPE I (PERC	RANGE CENT)
1	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
			.27 .34			.28 .36			.30 .38
			.709	95					
			.809	95					
			.708	30					
			.758	35					
			.759	95					
			.406	60					

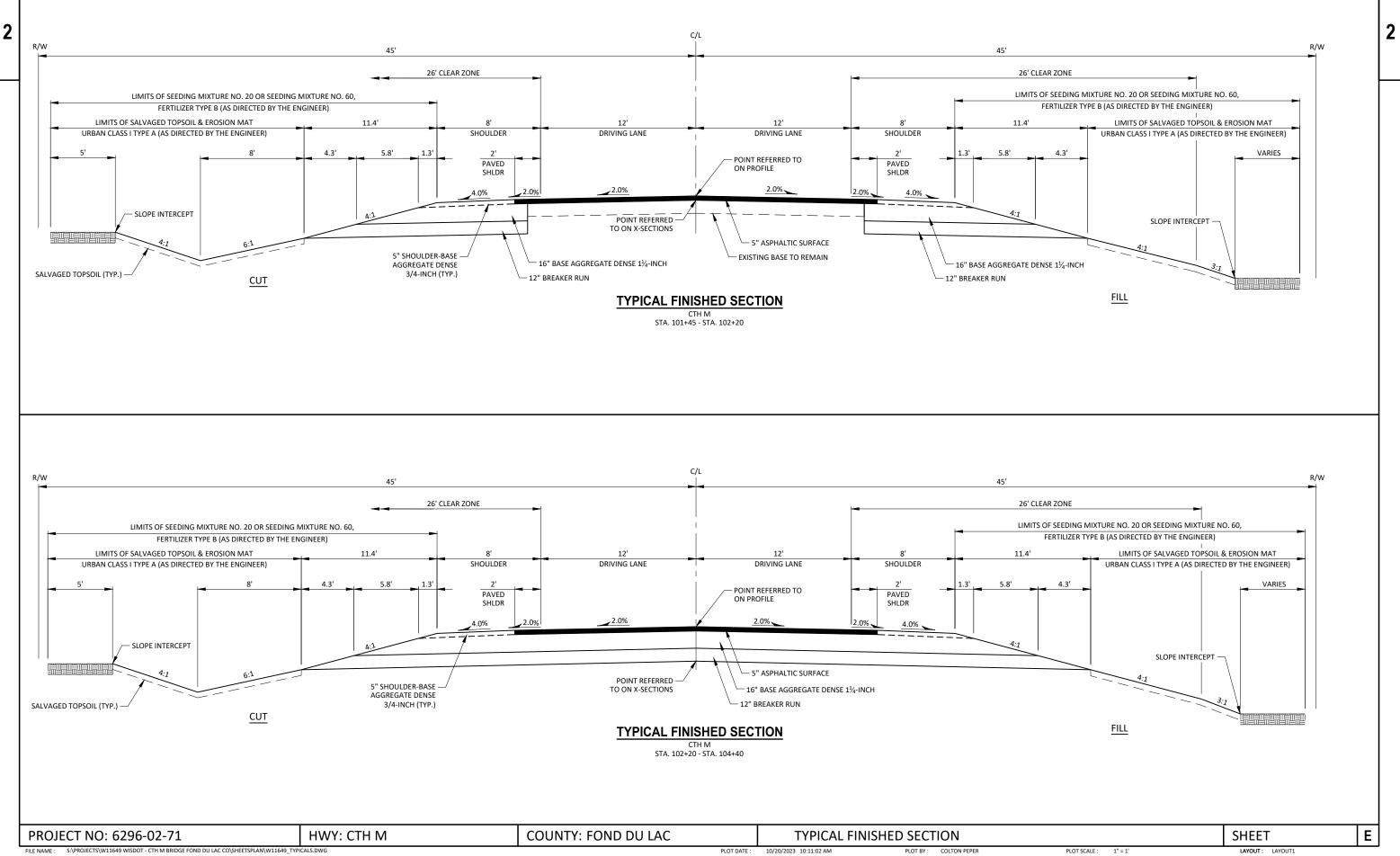
1" = 1

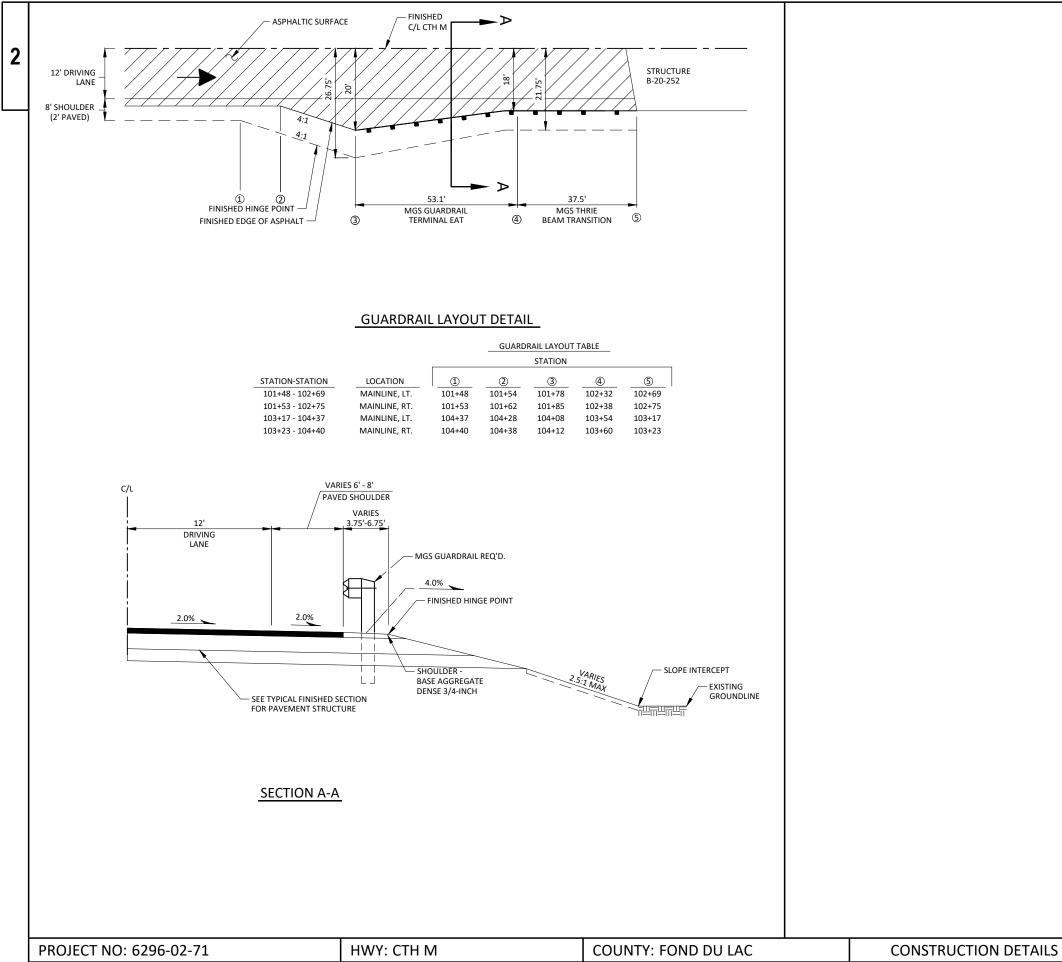
PLOT SCALE :

LAYOUT: LAYOUT1

2

Ε



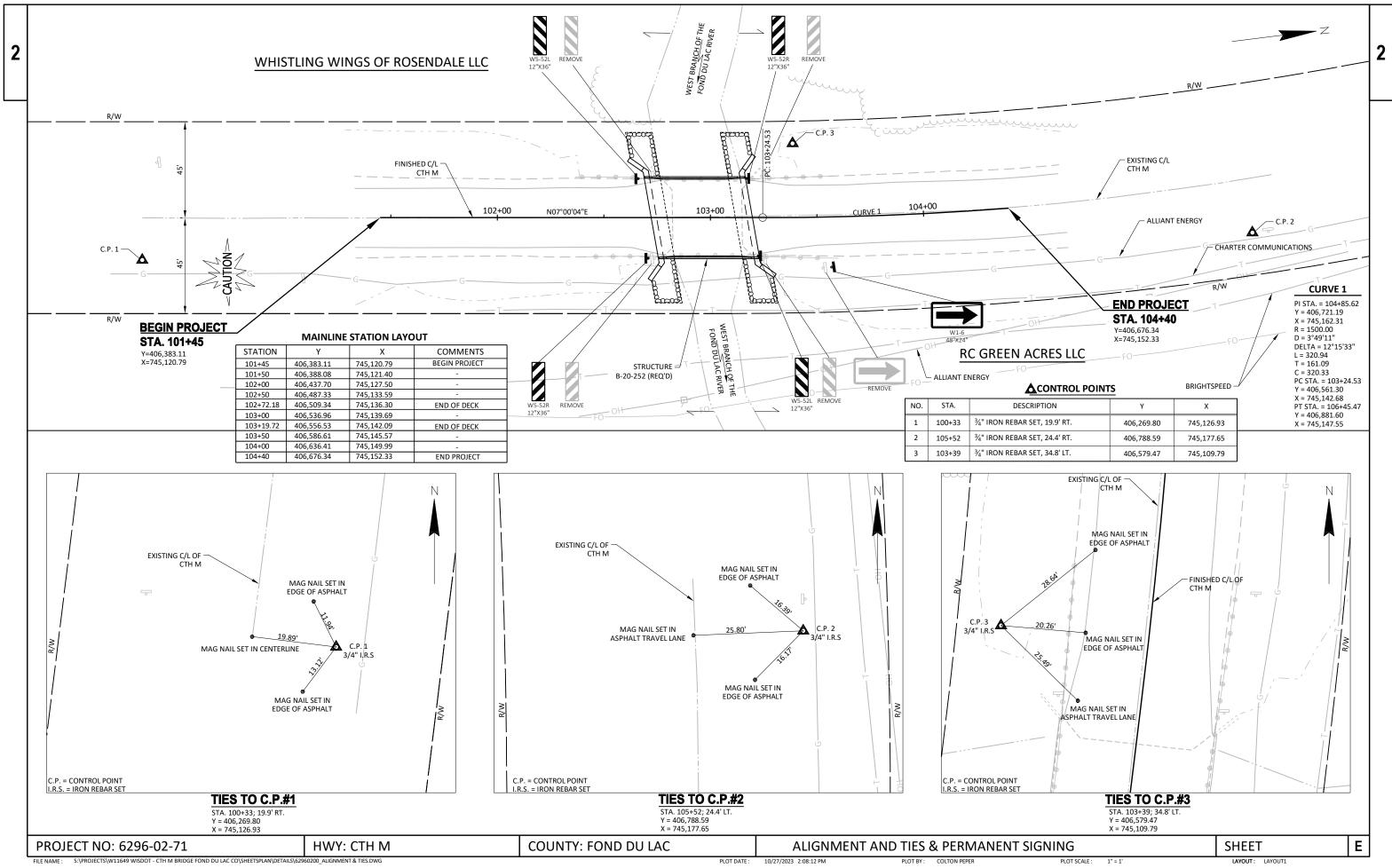


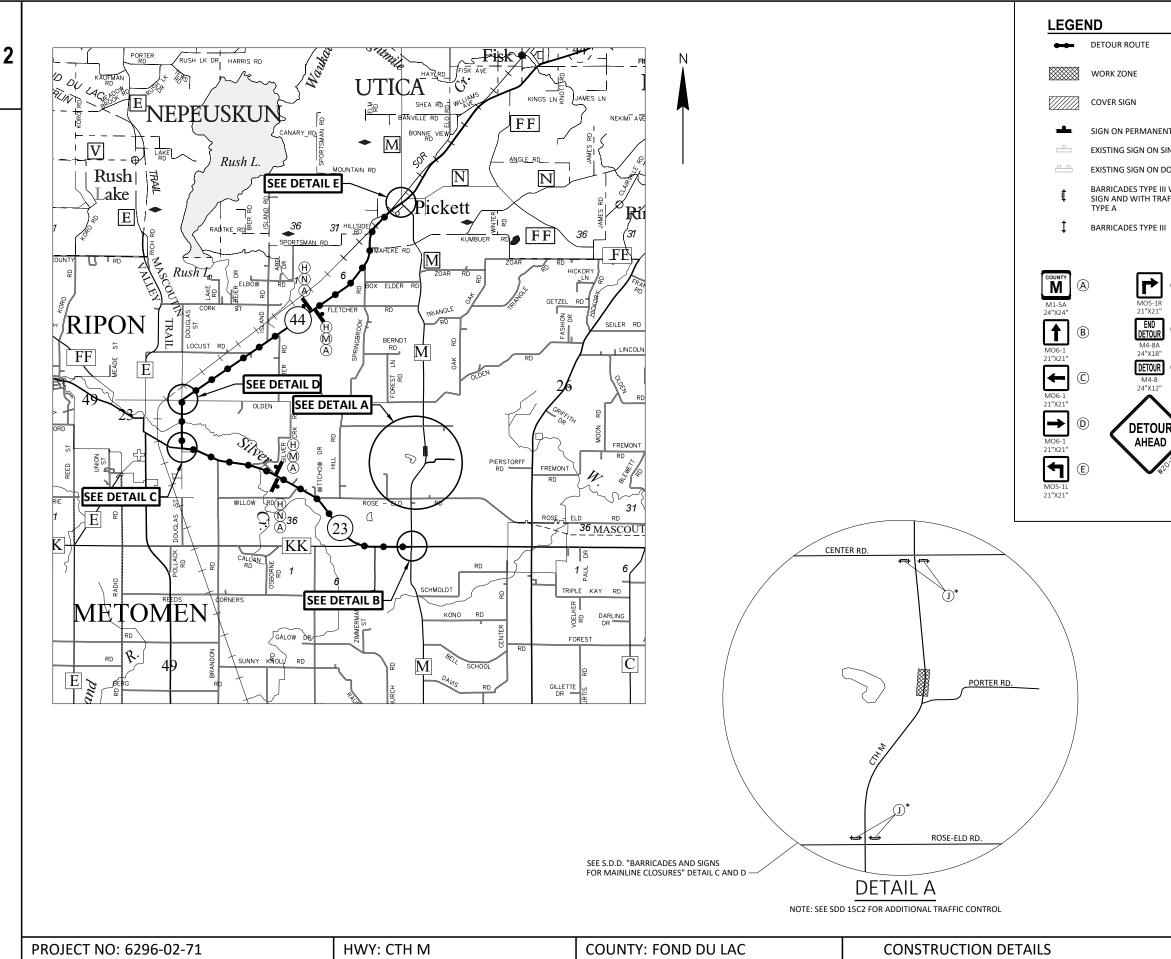
FILE NAME : S:\PROJECTS\W11649 WISDOT - CTH M BRIDGE FOND DU LAC CO\SHEETSPLAN\W11649\_TYPICALS.DWG

2

SHEET
-------

E





FILE NAME : S:\PROJECTS\W11649 WISDOT - CTH M BRIDGE FOND DU LAC CO\SHEETSPLAN\DETAILS\DETOUR PLAN.DWG

PLOT DATE : 10/20/2023 10:11:05 AM

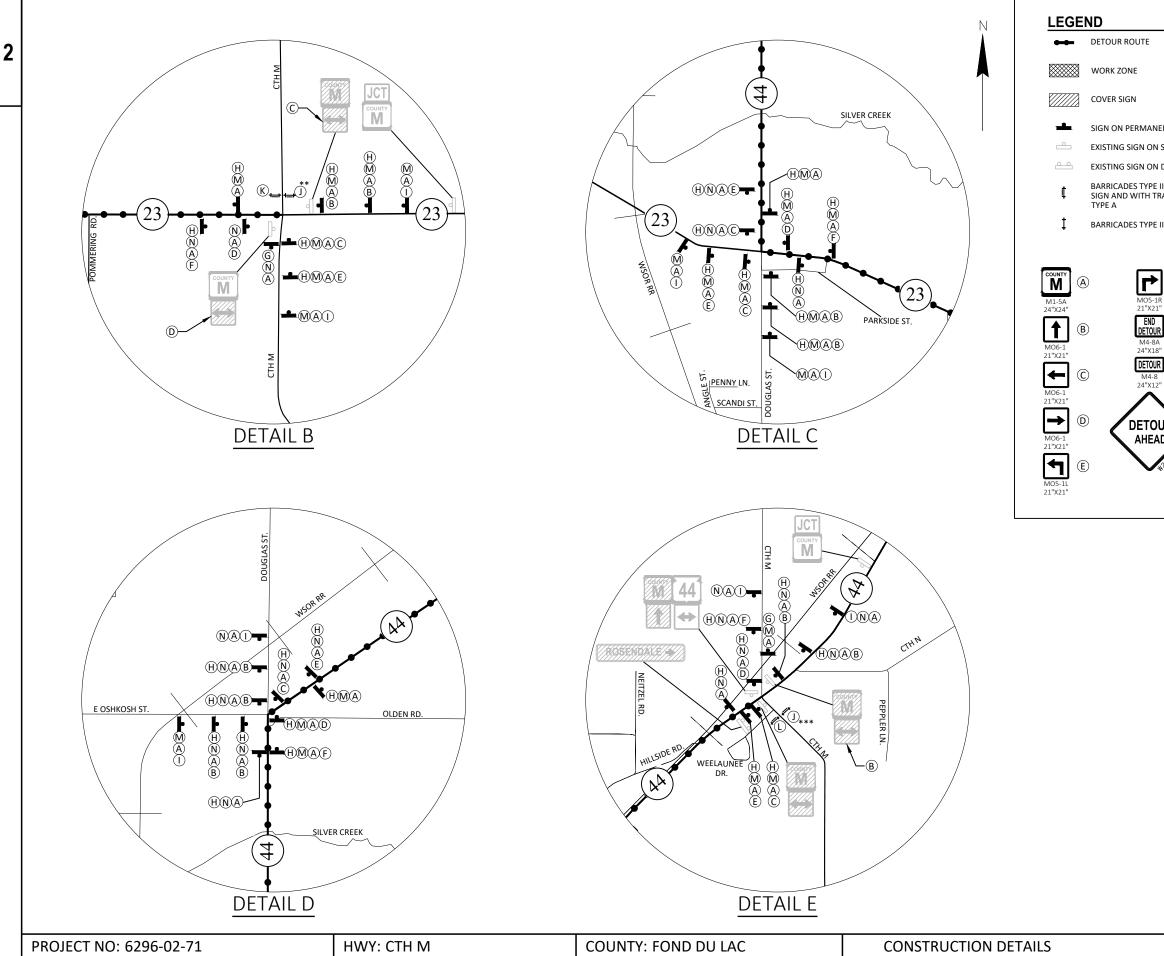
PLOT BY : COLTON PEPER

	THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.	2
	"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.	
	"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT BACKGROUND IS ORANGE.	
NT SUPPORT	ALL "WO" AND "W" SIGNS SHALL BE 48"X48"	
INGLE POST	UNLESS OTHERWISE NOTE.	
OUBLE POST I WITH ATTACHED AFFIC CONTROL LIGHTS	IMMEDIATELY RE-ESTABLISH "STOP" SIGNS THAT ARE REMOVED FOR A CONSTRUCTION OPERATION.	
I		
(F) BRIDGE OUT XX MILES AHEAD LOCAL TRAFFIC ONLY R11-3B 60"X30"	* SIGN READS "BRIDGE OUT 1 MILES AHEAD" (J) ** SIGN READS "BRIDGE OUT 2 MILES AHEAD" *** SIGN READS "BRIDGE OUT 5 MILES AHEAD"	
G DETOUR (K	)	
	)	
R (1) Me3-11 MB3		
24"X12" SOUTH M3-3 24"X12"		

**GENERAL NOTES** 

SHEET

E



FILE NAME : S:\PROJECTS\W11649 WISDOT - CTH M BRIDGE FOND DU LAC CO\SHEETSPLAN\DETAILS\DETOUR PLAN.DWG

PLOT DATE : 10/20/2023 10:11:07 AM

PLOT BY : COLTON PEPER

	GENERAL NOTES	
	THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.	2
	ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.	
IENT SUPPORT I SINGLE POST	"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.	
I DOUBLE POST	"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT	
III WITH ATTACHED RAFFIC CONTROL LIGHTS	BACKGROUND IS ORANGE. ALL "WO" AND "W" SIGNS SHALL BE 48"X48" UNLESS OTHERWISE NOTE.	
111	IMMEDIATELY RE-ESTABLISH "STOP" SIGNS THAT ARE REMOVED FOR A CONSTRUCTION OPERATION.	
BRIDGE OUT XX MILES AHEAD LOCAL TRAFFIC ONLY R11-3B 60"X30" DETOUR M4-9L 30"X24" DETOUR M4-9L 30"X24" DETOUR M4-9L 30"X24" (C M4-9L 30"X14" (C M4-9L	)	

c	ц	F	Ē	т
2	п	С	С	I.

E

Estimate Of Quantities

					6296-02-71	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0205	Grubbing	STA	3.000	3.000	
0004	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. B-20-680	EACH	1.000	1.000	
0006	204.0110	Removing Asphaltic Surface	SY	240.000	240.000	
8000	205.0100	Excavation Common	CY	840.000	840.000	
010	206.1001	Excavation for Structures Bridges (structure) 01. B-20-252	EACH	1.000	1.000	
0012	210.1500	Backfill Structure Type A	TON	410.000	410.000	
0014	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 6296-02-71	EACH	1.000	1.000	
0016	213.0100	Finishing Roadway (project) 01. 6296-02-71	EACH	1.000	1.000	
0018	305.0110	Base Aggregate Dense 3/4-Inch	TON	100.000	100.000	
0020	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,160.000	1,160.000	
0022	311.0110	Breaker Run	TON	860.000	860.000	
0024	455.0605	Tack Coat	GAL	54.000	54.000	
0026	465.0105	Asphaltic Surface	TON	310.000	310.000	
028	502.0100	Concrete Masonry Bridges	CY	220.000	220.000	
0020	502.3200	Protective Surface Treatment	SY	190.000	190.000	
0032	502.3210	Pigmented Surface Sealer	SY	48.000	48.000	
0032 0034	502.3210	Bar Steel Reinforcement HS Structures	LB	5,420.000	5,420.000	
0034	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	30,770.000	30,770.000	
			SY			
0038	516.0500 550.0500	Rubberized Membrane Waterproofing Pile Points	EACH	15.000	15.000	
0040				16.000	16.000	
0042	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	560.000	560.000	
0044	606.0300	Riprap Heavy	CY	135.000	135.000	
0046	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	170.000	170.000	
0048	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	4.000	
0050	614.2500	MGS Thrie Beam Transition	LF	160.000	160.000	
0052	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000	
0054	619.1000	Mobilization	EACH	1.000	1.000	
0056	624.0100	Water	MGAL	32.000	32.000	
0058	625.0500	Salvaged Topsoil	SY	700.000	700.000	
060	628.1504	Silt Fence	LF	720.000	720.000	
0062	628.1520	Silt Fence Maintenance	LF	1,440.000	1,440.000	
0064	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000	
0066	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0068	628.2006	Erosion Mat Urban Class I Type A	SY	700.000	700.000	
070	628.6005	Turbidity Barriers	SY	250.000	250.000	
072	629.0210	Fertilizer Type B	CWT	1.000	1.000	
0074	630.0120	Seeding Mixture No. 20	LB	35.000	35.000	
076	630.0160	Seeding Mixture No. 60	LB	5.000	5.000	
078	630.0200	Seeding Temporary	LB	35.000	35.000	
080	630.0500	Seed Water	MGAL	32.000	32.000	
0082	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
084	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	1.000	1.000	
086	637.2230	Signs Type II Reflective F	SF	20.000	20.000	
8800	638.2602	Removing Signs Type II	EACH	5.000	5.000	
0090	638.3000	Removing Small Sign Supports	EACH	5.000	5.000	
0092	642.5001	Field Office Type B	EACH	1.000	1.000	
0094	643.0420	Traffic Control Barricades Type III	DAY	1,475.000	1,475.000	
0096	643.0705	Traffic Control Warning Lights Type A	DAY	2,145.000	2,145.000	
0098	643.0900	Traffic Control Signs	DAY	12,460.000	12,460.000	
		Traffic Control Covering Signs Type II	EACH	10.000	10.000	

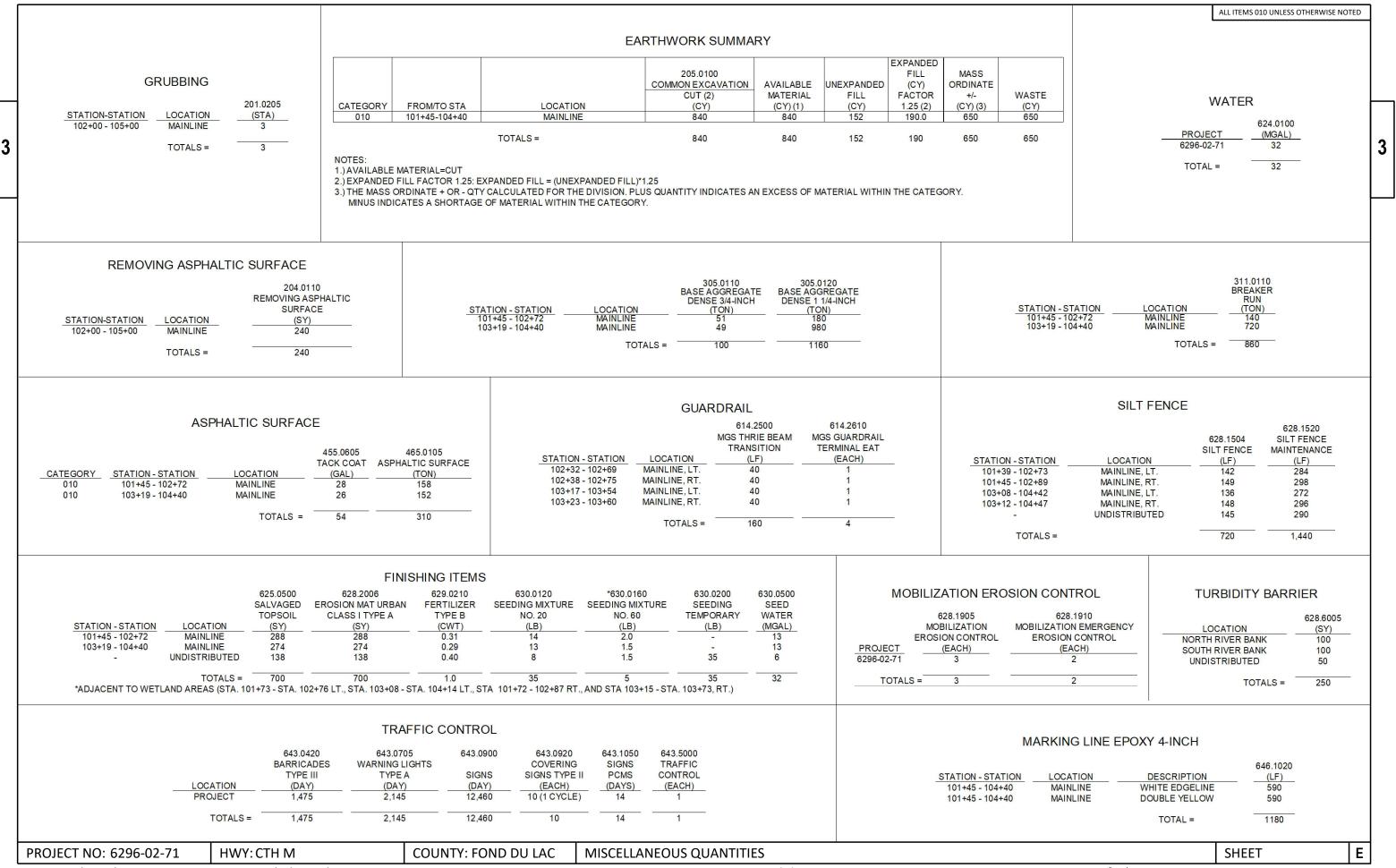
# 12/01/2023 16:34:54

Page 1

			E	stimate Of Q	uantities
					6296-02-71
Line	Item	Item Description	Unit	Total	Qty
0102	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0104	643.5000	Traffic Control	EACH	1.000	1.000
0106	645.0111	Geotextile Type DF Schedule A	SY	120.000	120.000
0108	645.0120	Geotextile Type HR	SY	225.000	225.000
0110	646.1020	Marking Line Epoxy 4-Inch	LF	1,180.000	1,180.000
0112	650.4500	Construction Staking Subgrade	LF	247.000	247.000
0114	650.5000	Construction Staking Base	LF	247.000	247.000
0116	650.6501	Construction Staking Structure Layout (structure) 01. B-20-0252	EACH	1.000	1.000
0118	650.9911	Construction Staking Supplemental Control (project) 01. 6296-02-71	EACH	1.000	1.000
0120	650.9920	Construction Staking Slope Stakes	LF	247.000	247.000
0122	690.0150	Sawing Asphalt	LF	56.000	56.000
0124	715.0502	Incentive Strength Concrete Structures	DOL	1,320.000	1,320.000
0126	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 102+96	EACH	1.000	1.000
0128	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	600.000	600.000
0130	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0132	SPV.0195	Special 01. Select Crushed Material For Travel Corridor	TON	60.000	60.000

# 12/01/2023 16:34:54

Page 2



FILE NAME : S: \PROJECTS \W11649 WISDOT - CTH M BRIDGE FOND DU LAC CO \PSE \QUANTITIES \W11649\_MISC QTYS.DWG

PLOT DATE : 10/26/2023 PLOT TIME : 11:49:14 AM

PLOT BY : HANOLD, ROBERT

PERMANENT SIGNING

APPROX.         SIGN         SIGN         SIGN         POSTS         POSTS         SIGNS         SIGNS         REMOVING         REMOVING           STATION         POSTION         LOCATION         CODE         SIGN DESCRIPTION         SIG         NICHX 12-FT         NICHX 14-FT         REFLECTIVE F         SIGNS         SMALL SIGN           102+66         LEFT         MAINLINE         W5-52L         BRIDGE HASH MARKS         12/36         1         -         3.00         1         1           102+70         RIGHT         MAINLINE         W5-52L         BRIDGE HASH MARKS         12/36         1         -         3.00         1 </th <th></th>										
650.9911	STATION         POSITIO           102+66         LEFT           102+70         RIGHT           103+16         LEFT           103+22         RIGHT	MAINLINE MAINLINE MAINLINE MAINLINE	CODE W5-52L W5-52R W5-52R W5-52L	BRIDGE HASH MARKS BRIDGE HASH MARKS BRIDGE HASH MARKS BRIDGE HASH MARKS	SIGN SIZE 12X36 12X36 12X36 12X36 24X48	POSTS WOOD 4X6- NCH X 12-FT (EACH) 1 1 1 1 1	POSTS WOOD 4X6- INCH X 14-FT (EACH)    1	SIGNS TYPE II REFLECTIVE F (SF) 3.00 3.00 3.00 3.00 8.00	REMOVING SIGNS TYPE II (EACH) 1 1 1 1 1 1	REMOVING SMALL SIGN SUPPORTS (EACH) 1 1 1 1 1 1
650,4500 650,5000 STRUCTURE CONTROL SLOPES					*650.6501	SUPPLEN	MENTAL 650			
				(L.F.) (L.F.)	(EACH)		CH) (L	F.)		
					-					
STATION -STATION         LOCATION         (L.F.)         (EACH)         (EACH)         (L.F.)           101+45 - 102+72         MAINLINE         127         127         -         -         127				120 120	-			-		
STATION -STATION         LOCATION         (L.F.)         (EACH)         (EACH)         (L.F.)           101+45 - 102+72         MAINLINE         127         127         -         -         127           103+19 - 104+40         MAINLINE         120         120         -         -         120										
STATION -STATION         LOCATION         (L.F.)         (EACH)         (EACH)         (L.F.)           101+45 - 102+72         MAINLINE         127         127         -         127           103+19 - 104+40         MAINLINE         120         120         -         -         120           6296-02-71         PROJECT         -         -         1         1         -		1	TOTAL =	247 247	1	1	2	247		

COUNTY: FOND DU LAC MISCELLANEOUS QUANTITIES PROJECT NO: 6296-02-71 HWY: CTH M

247

\* CAT 020

3

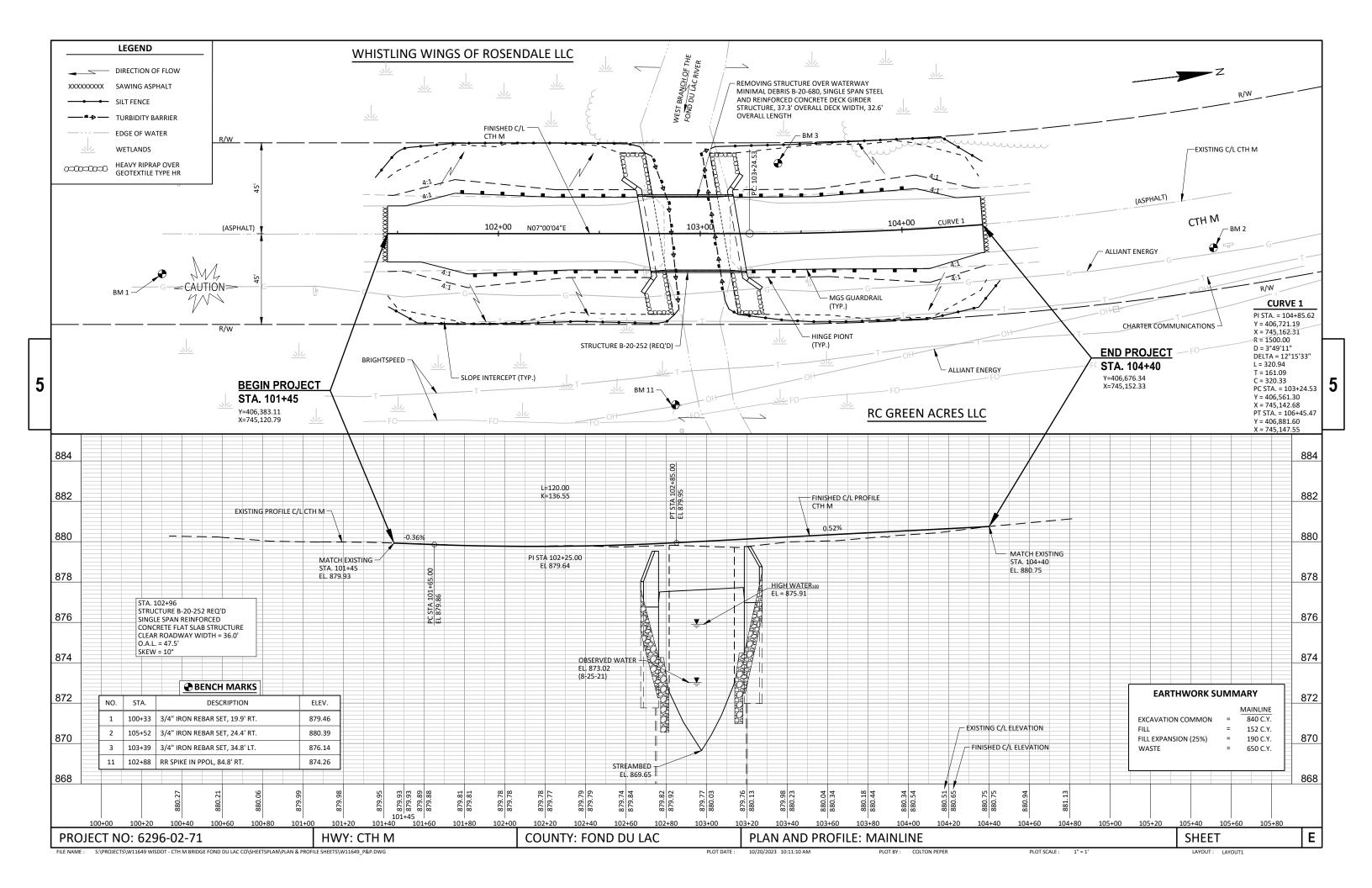
ALL ITEMS 010 UNLESS OTHERWISE NOTED

3

# SAWING ASPHALT

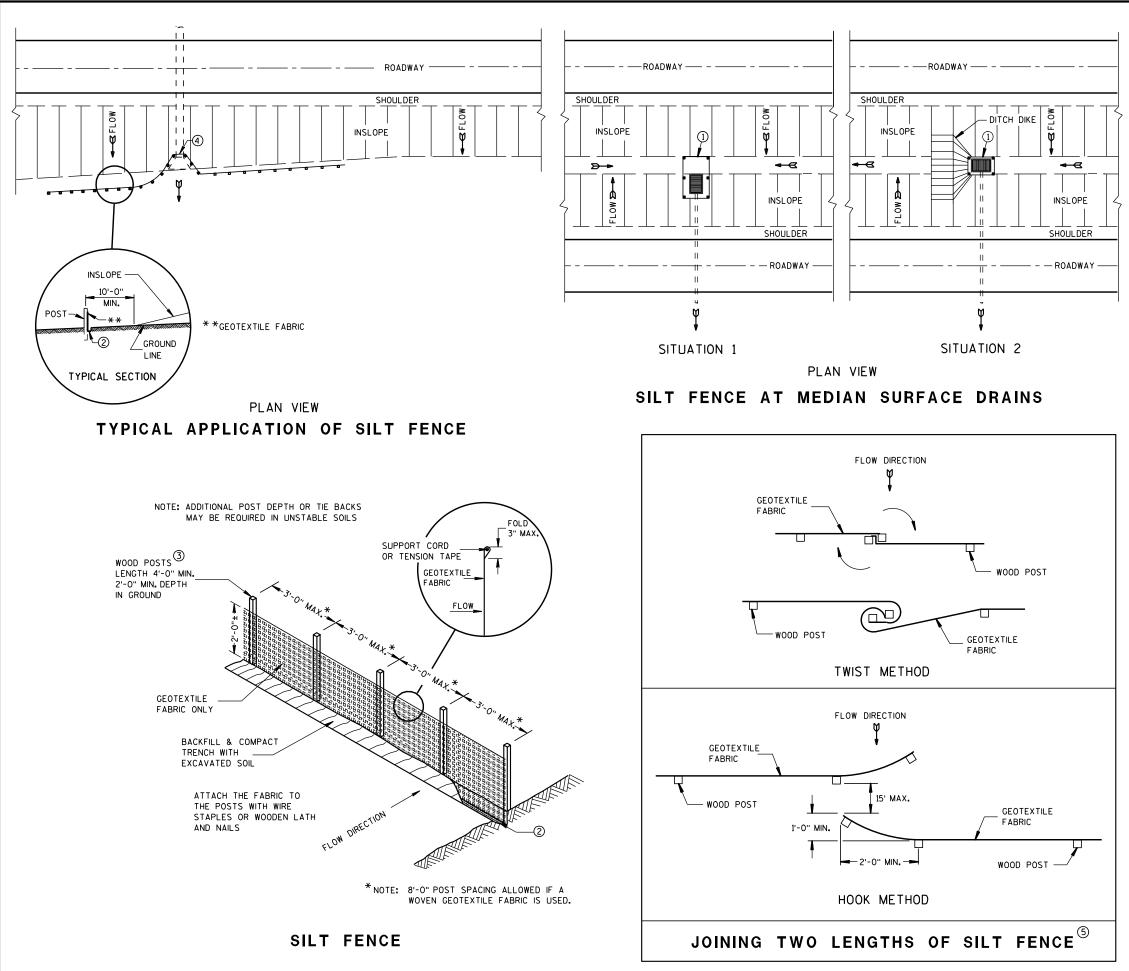
		690.0150
STATION	LOCATION	(LF)
101+45	MAINLINE	28
104+40	MAINLINE	28
	TOTAL =	56

S	Н	E	E.	Ι



# Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
13C19-03	HMA LONGITUDINAL JOINTS
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14в42-07в	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14в45-05в	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15с02-09в	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15С11-10В	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS



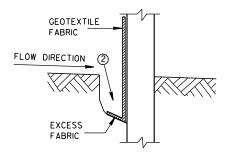
S.D.D. 8 E 9

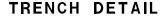
Ō

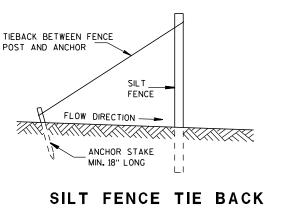
# **GENERAL NOTES**

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

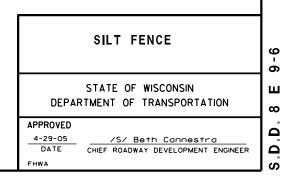
- $\bigcirc$  horizontal brace required with 2" x 4" wooden frame or equivalent at top of posts.
- (2) FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- (3) WOOD POSTS SHALL BE A MINIMUM SIZE OF  $1/_8$ " X  $1/_8$ " 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.

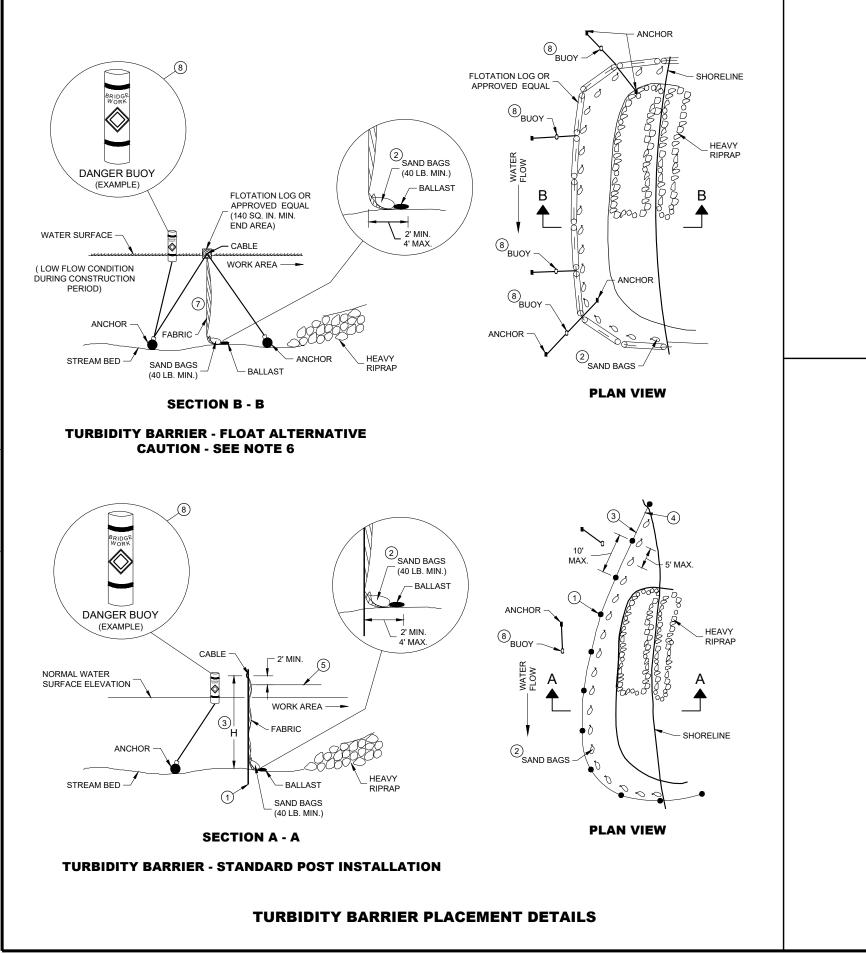




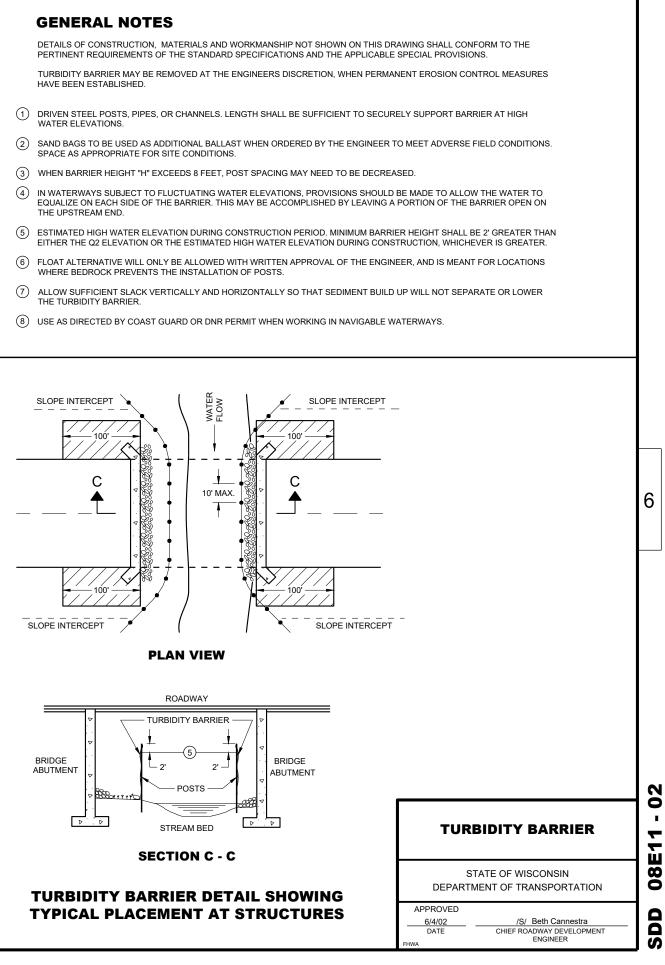


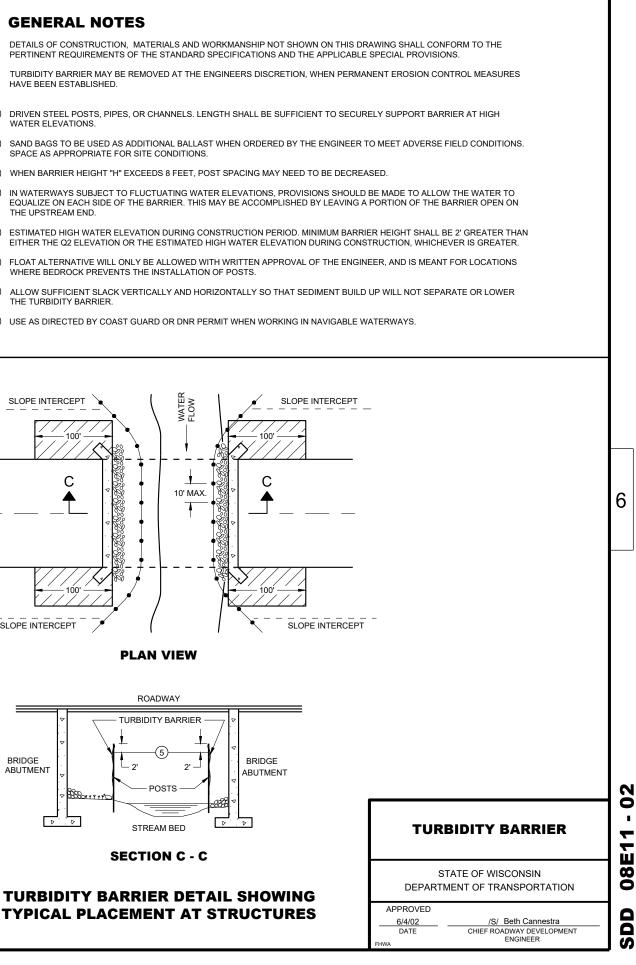
(WHEN REQUIRED BY THE ENGINEER)



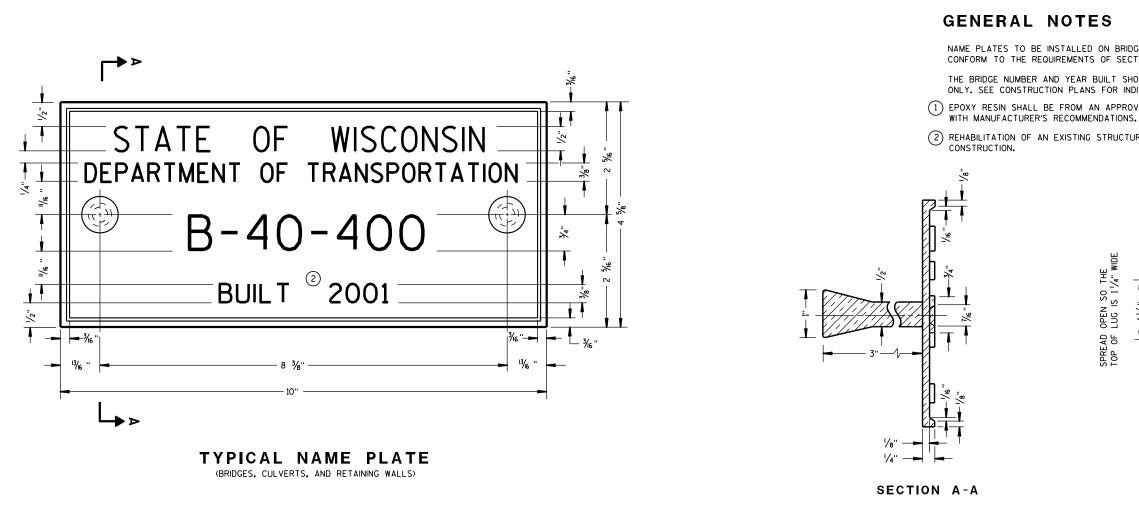


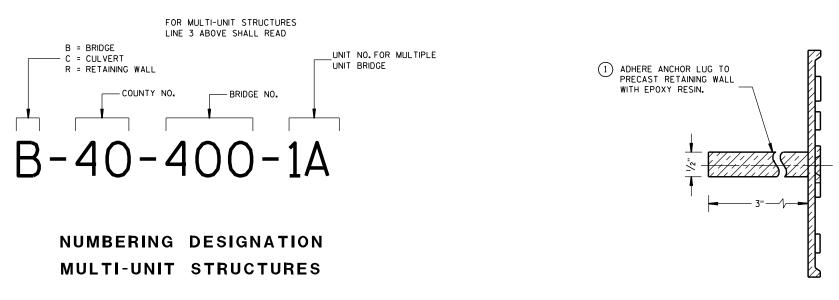
- WATER ELEVATIONS.





SDD 08E -. 02



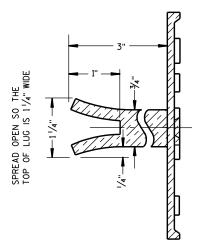


ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

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

(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE



# ALTERNATE LUG

# NAME PLATE (STRUCTURES)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

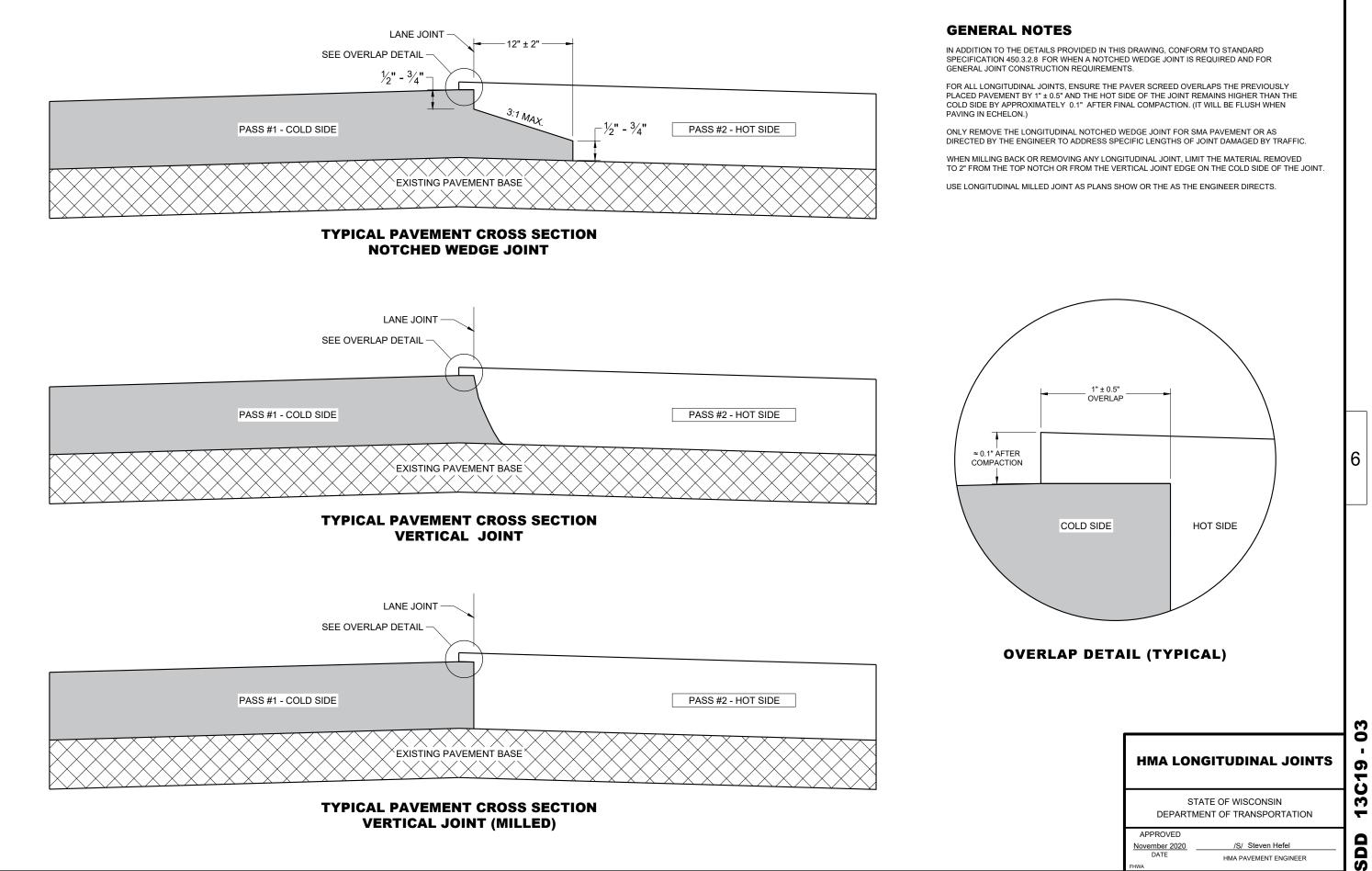
## APPROVED

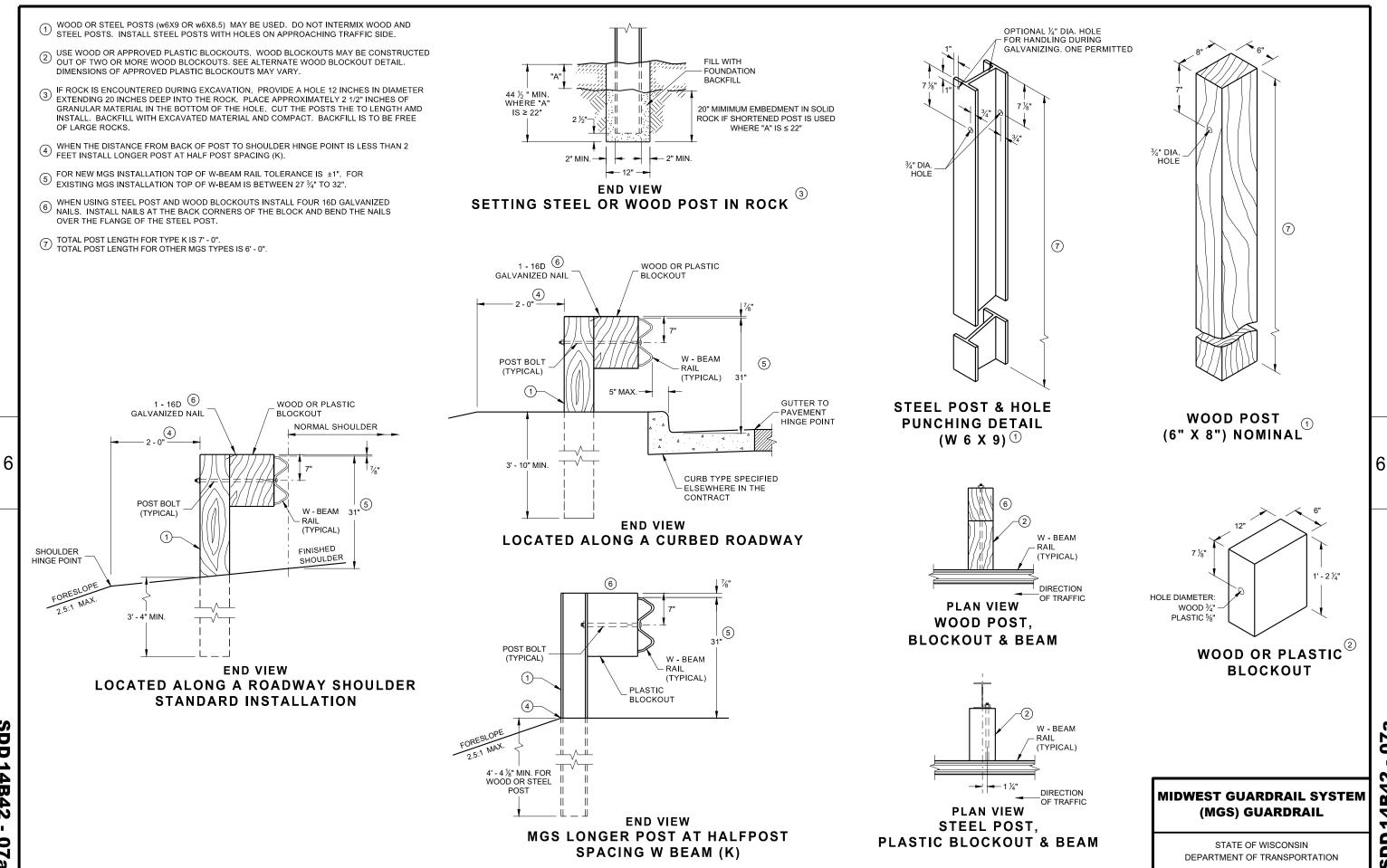
3/26/10 DATE FHWA

/S/ Scot Becker CHIEF STRUCTURAL DEVELOPMENT ENGINEER 3-10 ∢ 2 Δ

Δ

ഗ





Ö

N

4

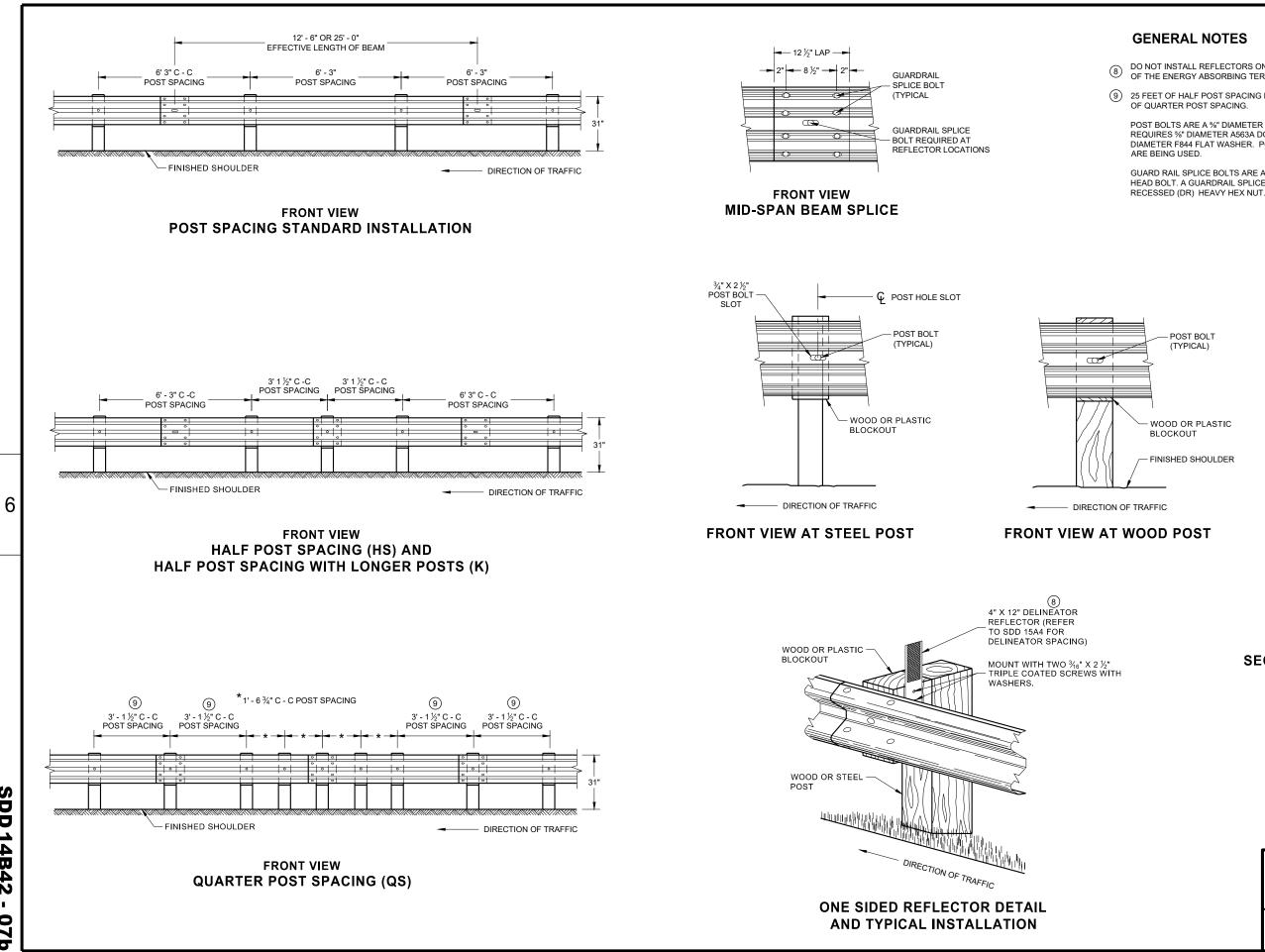
à

4

~

۵

SD



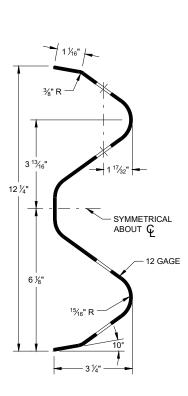
**SDD 14B42** 0 ð

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

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 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5%" DIAMETER A563A DOUBLE



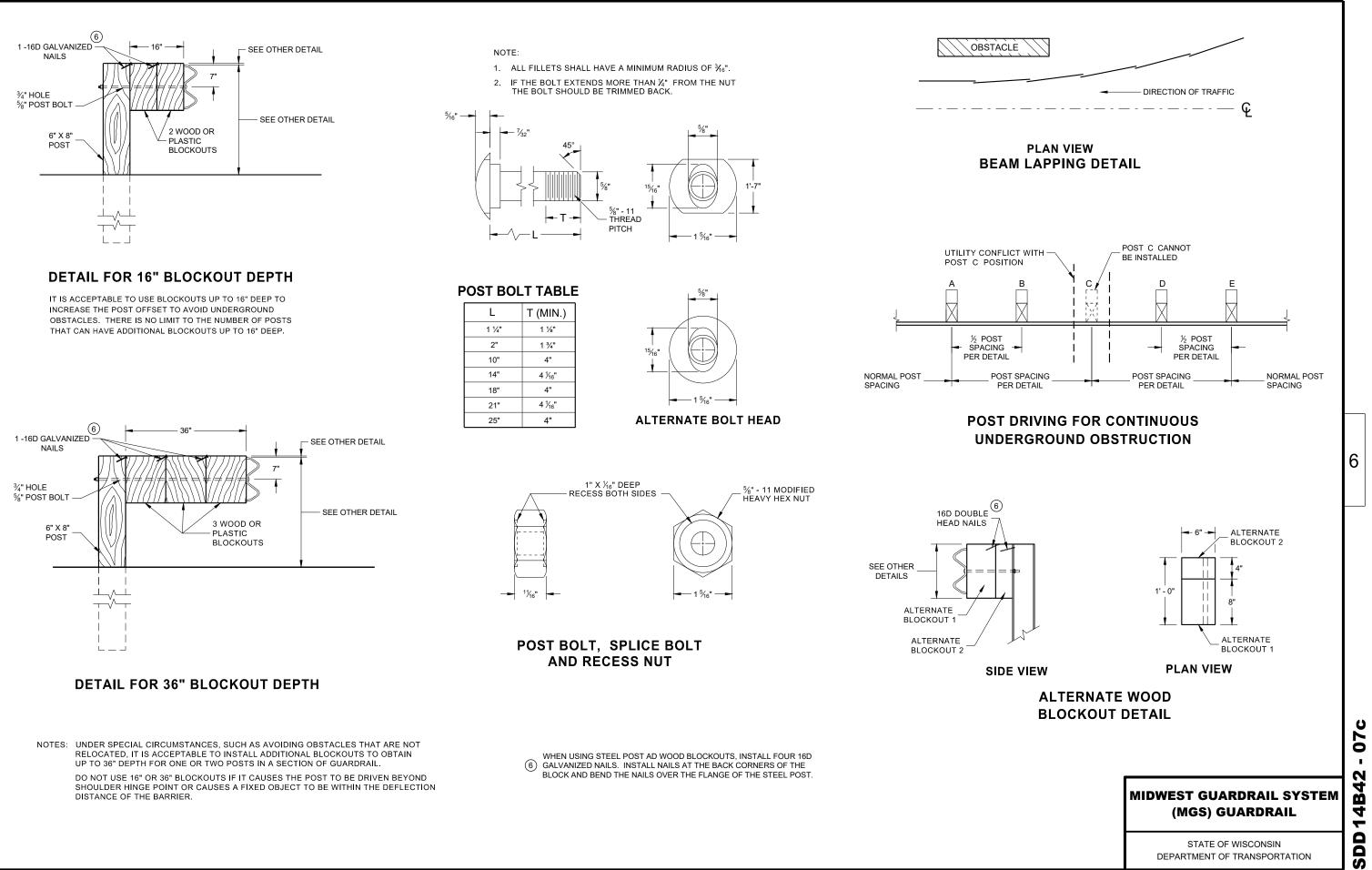
SECTION THRU W-BEAM RAIL

# 07b . N 4 à 4 ~ SDD

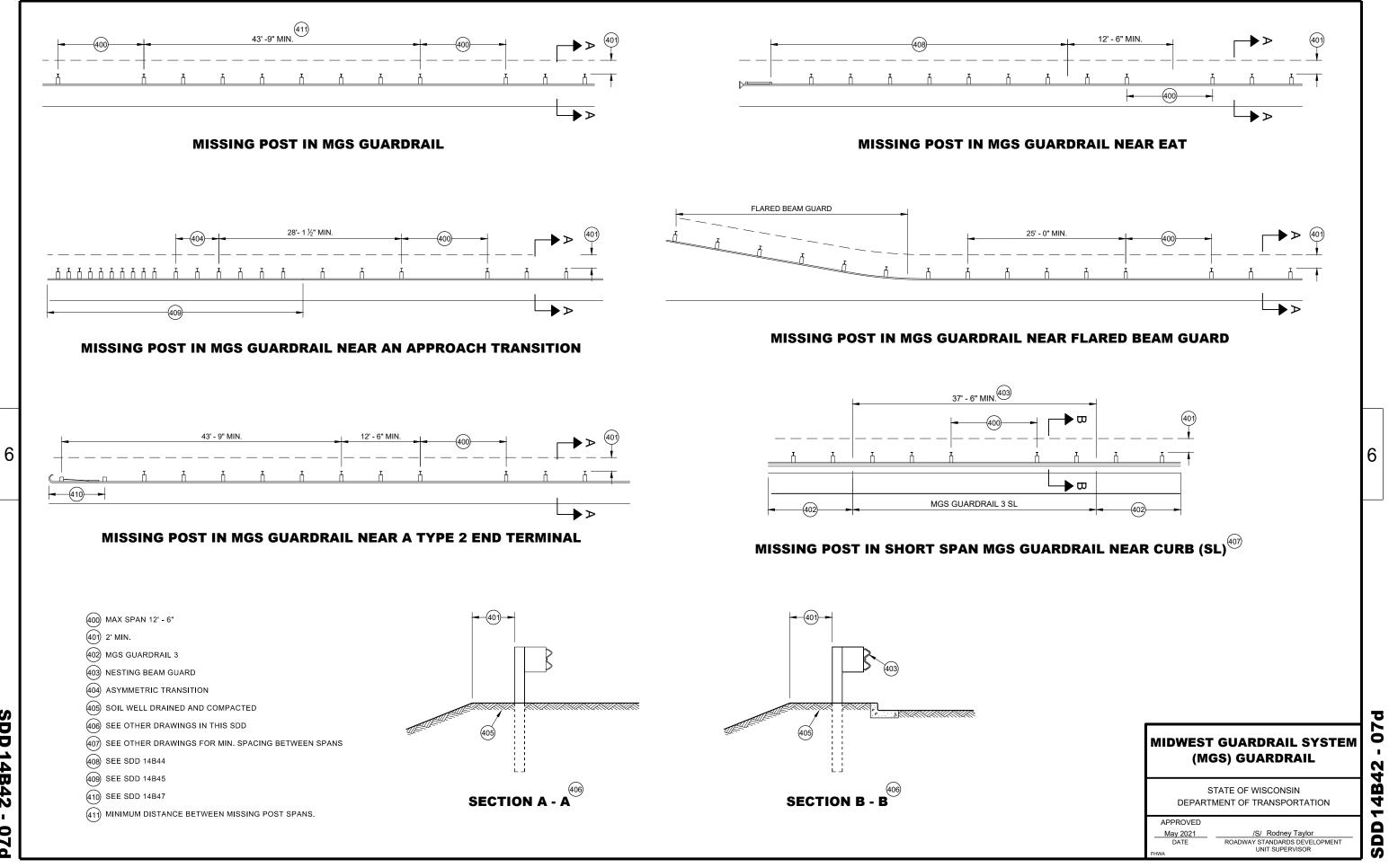
6

# **MIDWEST GUARDRAIL SYSTEM** (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



**SDD 14B42** 0 **n** 



**SDD 14B42** 07d

# **GENERAL NOTES**

- (A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.
- (B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED
- © DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.
- D ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.
- E HARDWARE MAY VARY BETWEEN MANUFACTURER SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

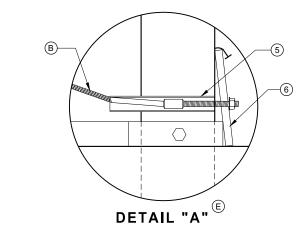
SEE SDD 14B42 FOR MORE INFORMATION.

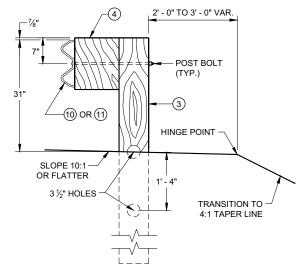
★ DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

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

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

THE CENTER OF THE UPPER 3  $\frac{1}{2}$ " DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.





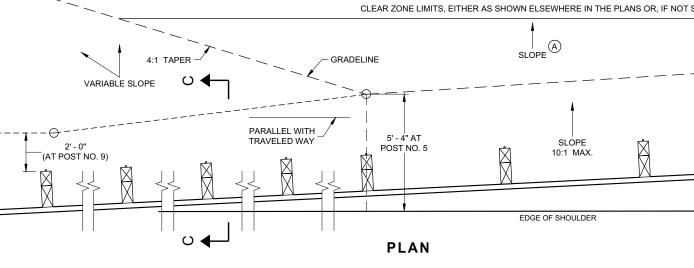
10 31 -(15) SHOULDER HINGE POINT SLOPE 10:1-OR FLATTER

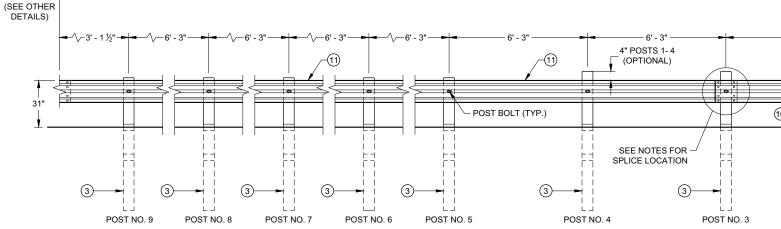
POST BOLT

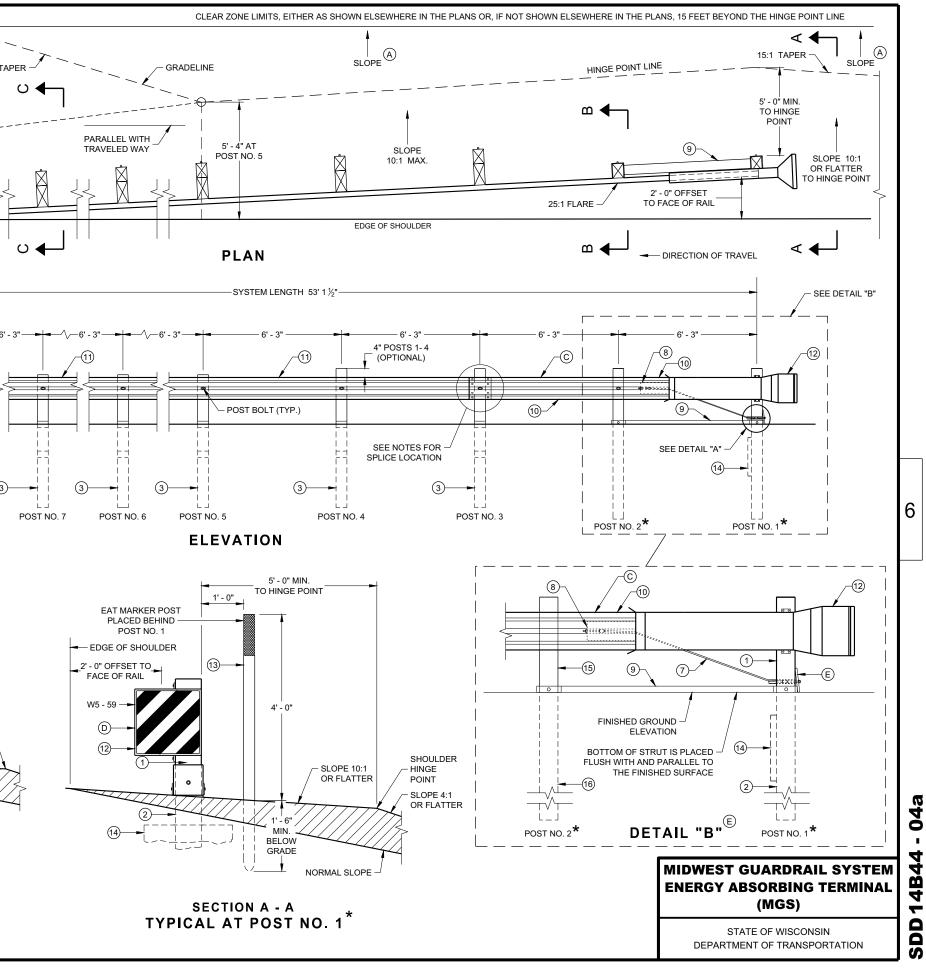
(TYP.)

MGS BEAM

GUARD (MGS)

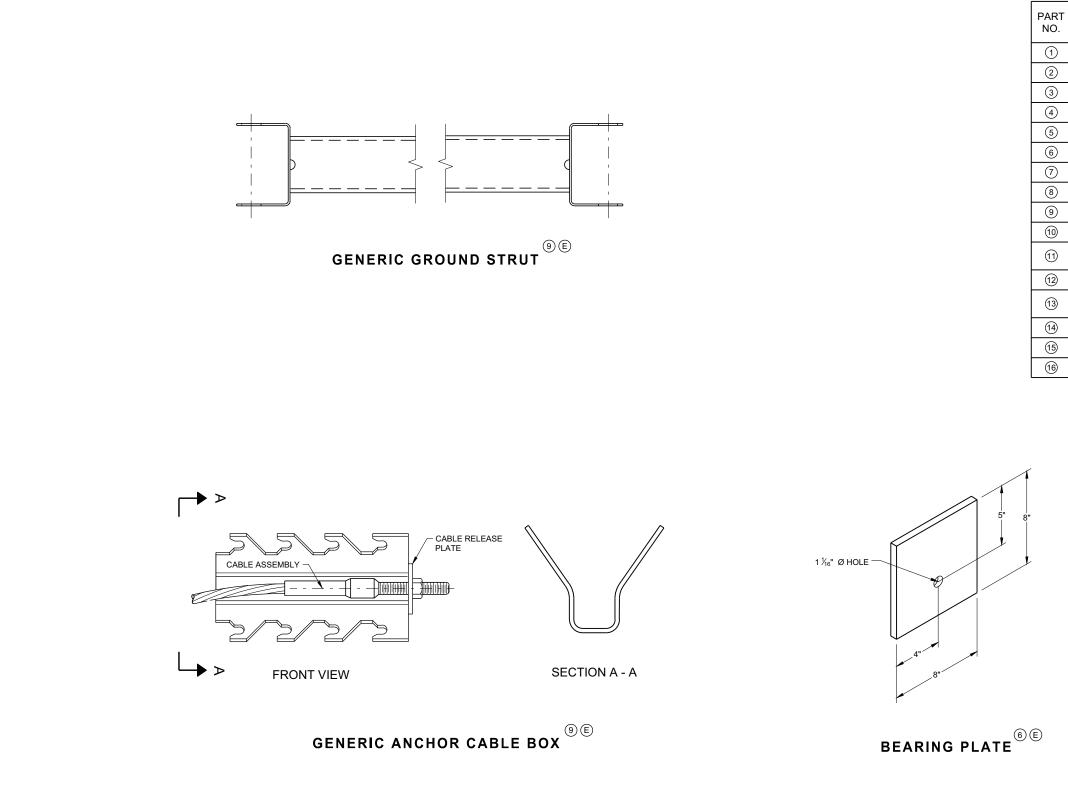






SECTION C - C **TYPICAL AT POST NOS. 3 - 9** 

SECTION B - B TYPICAL AT POST NO. 2\*



SDD 14B44 - 04b

6

# BILL OF MATERIALS

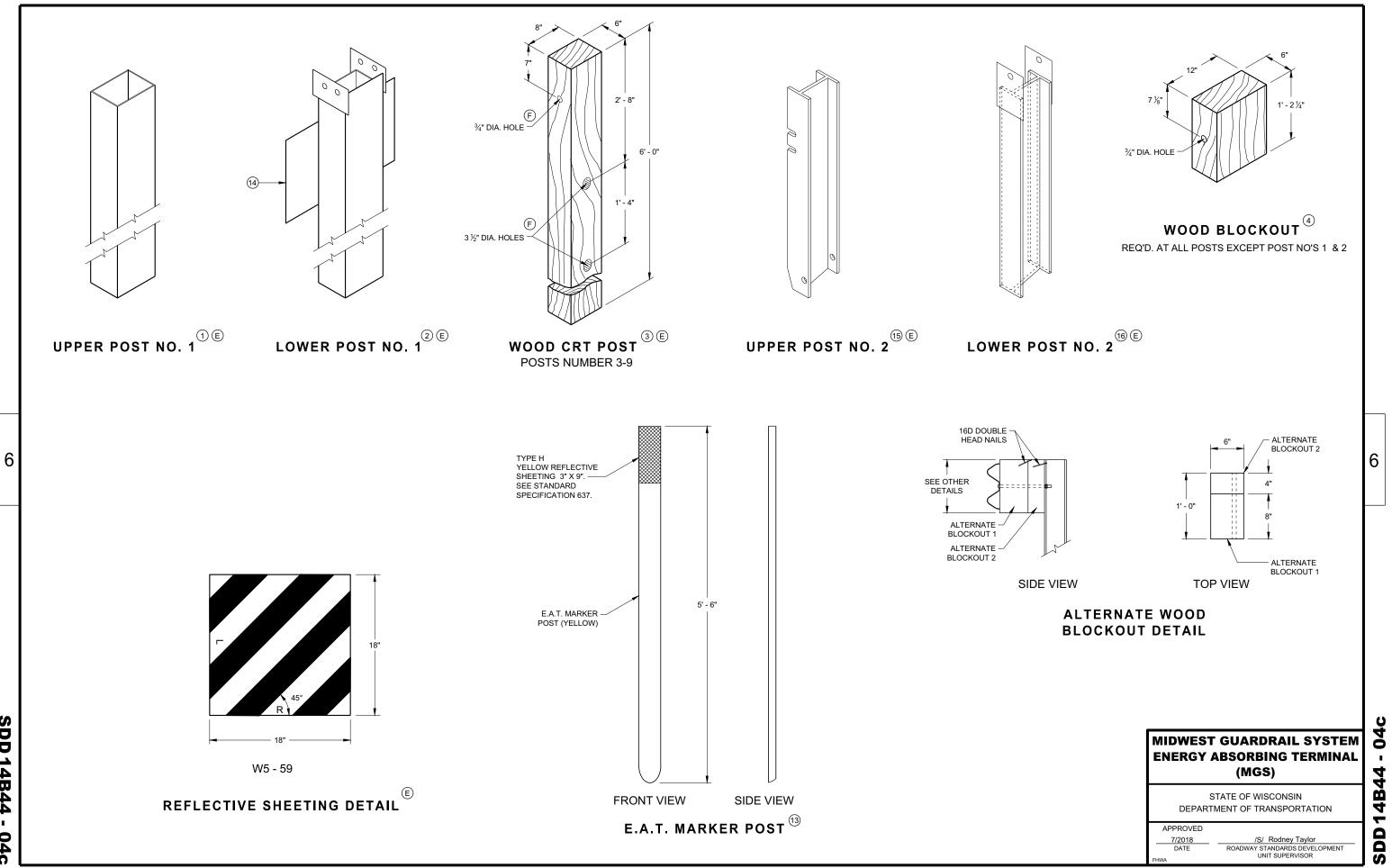
DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
UPPER POST NO. 1 6" X 6" TUBE
LOWER POST NO. 1
WOOD CRT
WOOD BLOCKOUT
PIPE SLEEVE
BEARING PLATE
BCT CABLE ASSEMBLY
ANCHOR CABLE BOX
GROUND STRUT
PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
IMPACT HEAD
EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
SOIL PLATE
UPPER POST NO. 2
LOWER POST NO. 2

6

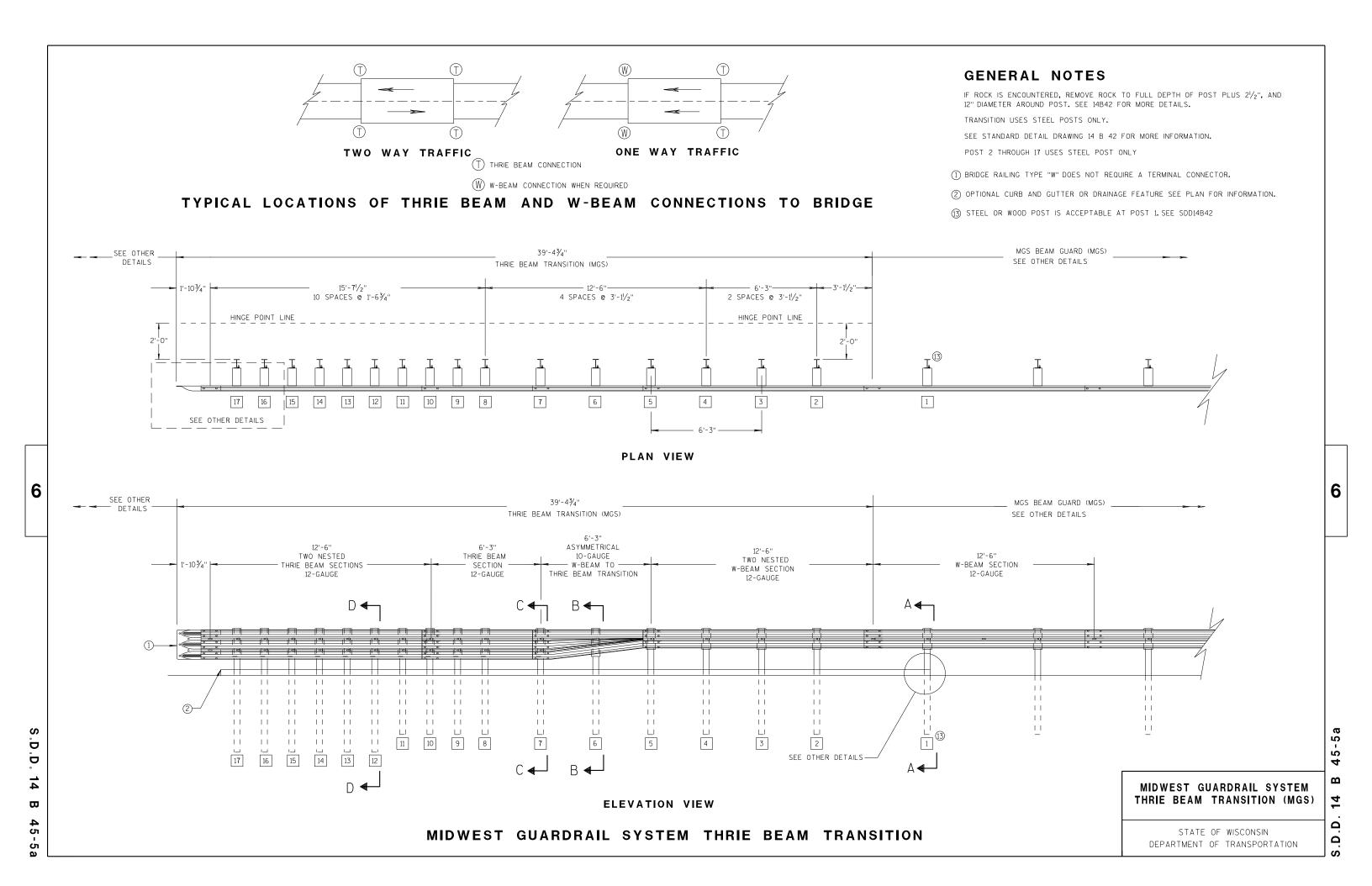
# SDD14B44 - 04b

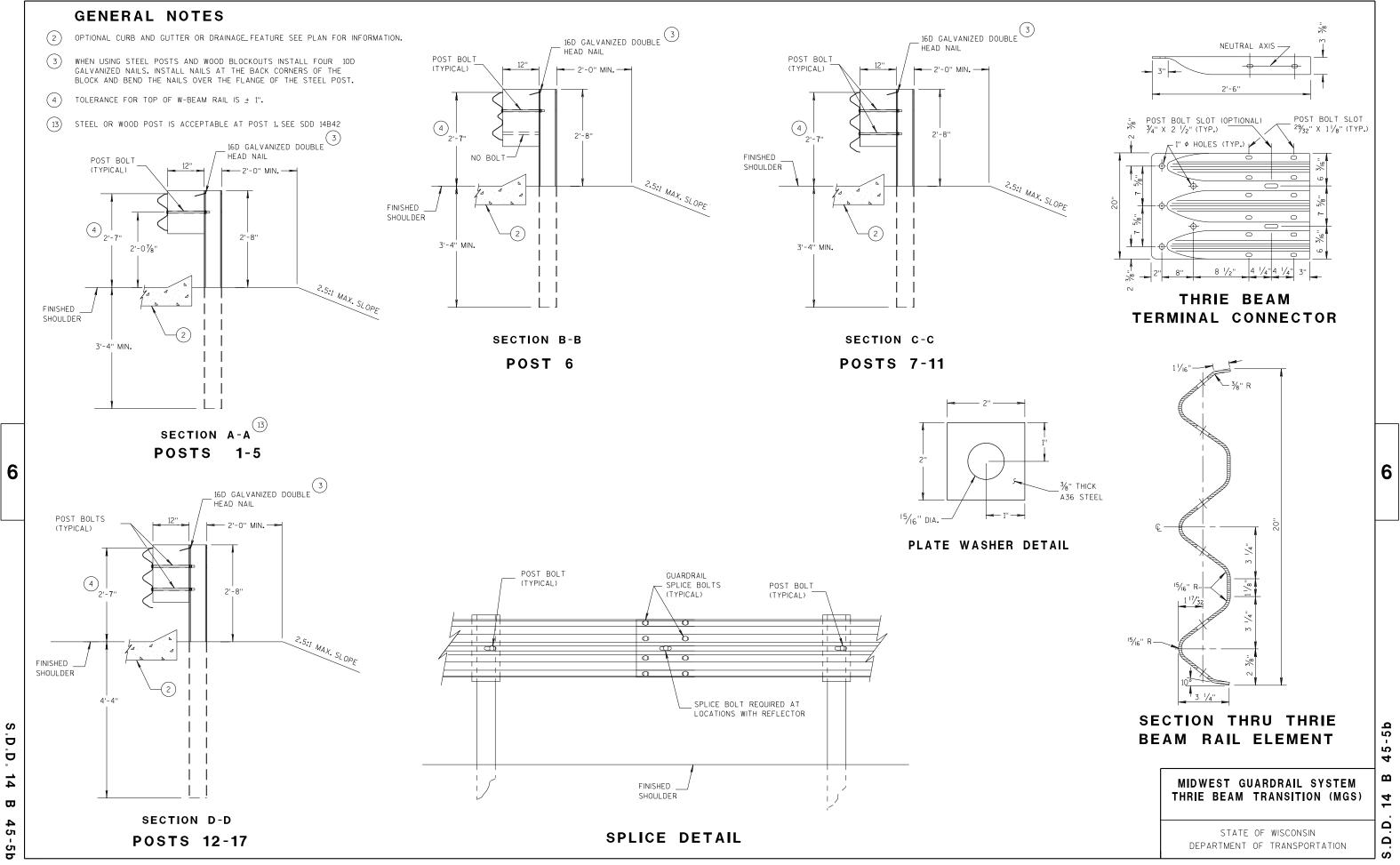
# MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



SDD 14B44 - 04c



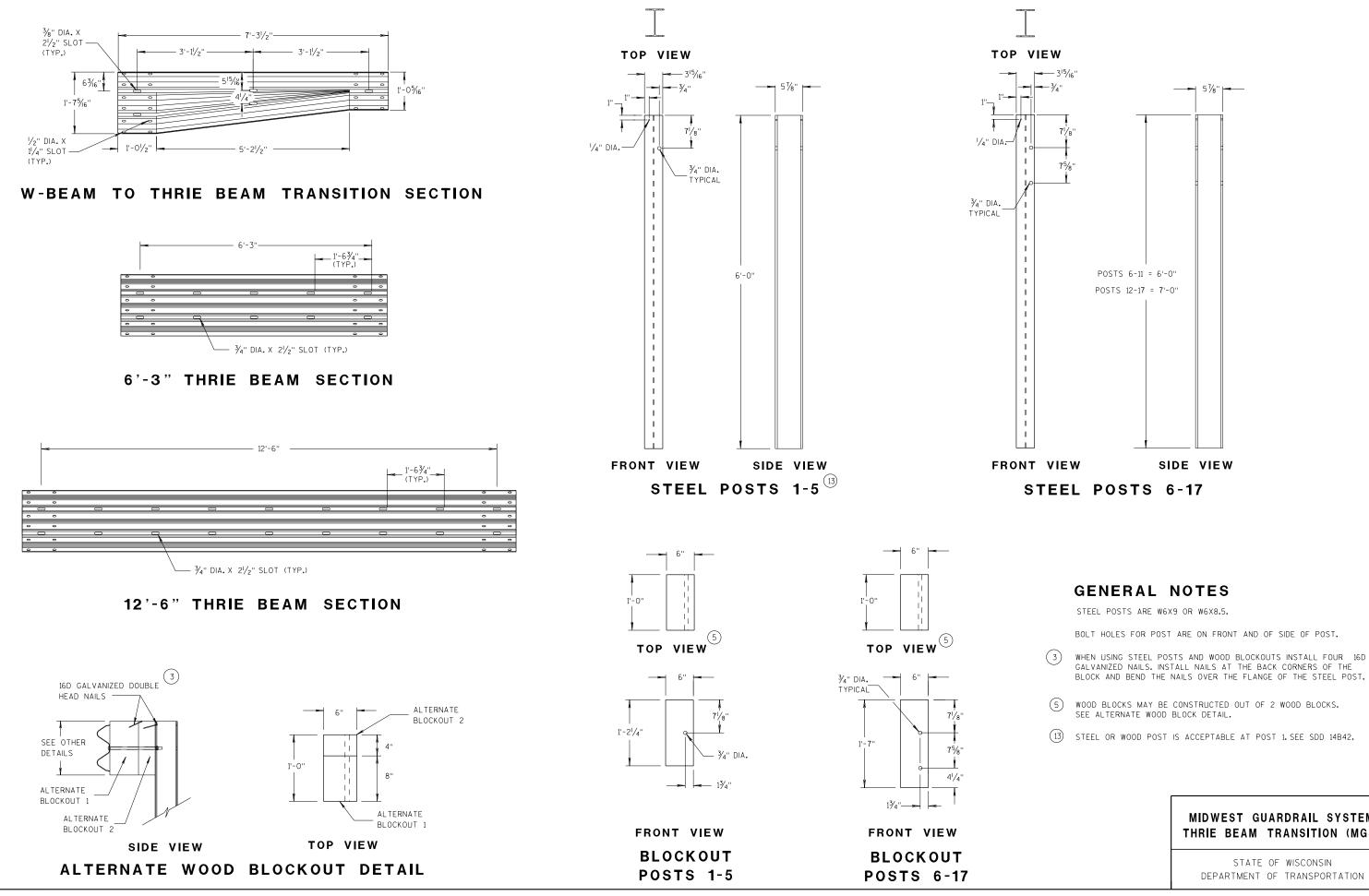


S D D

14

Β

4



S

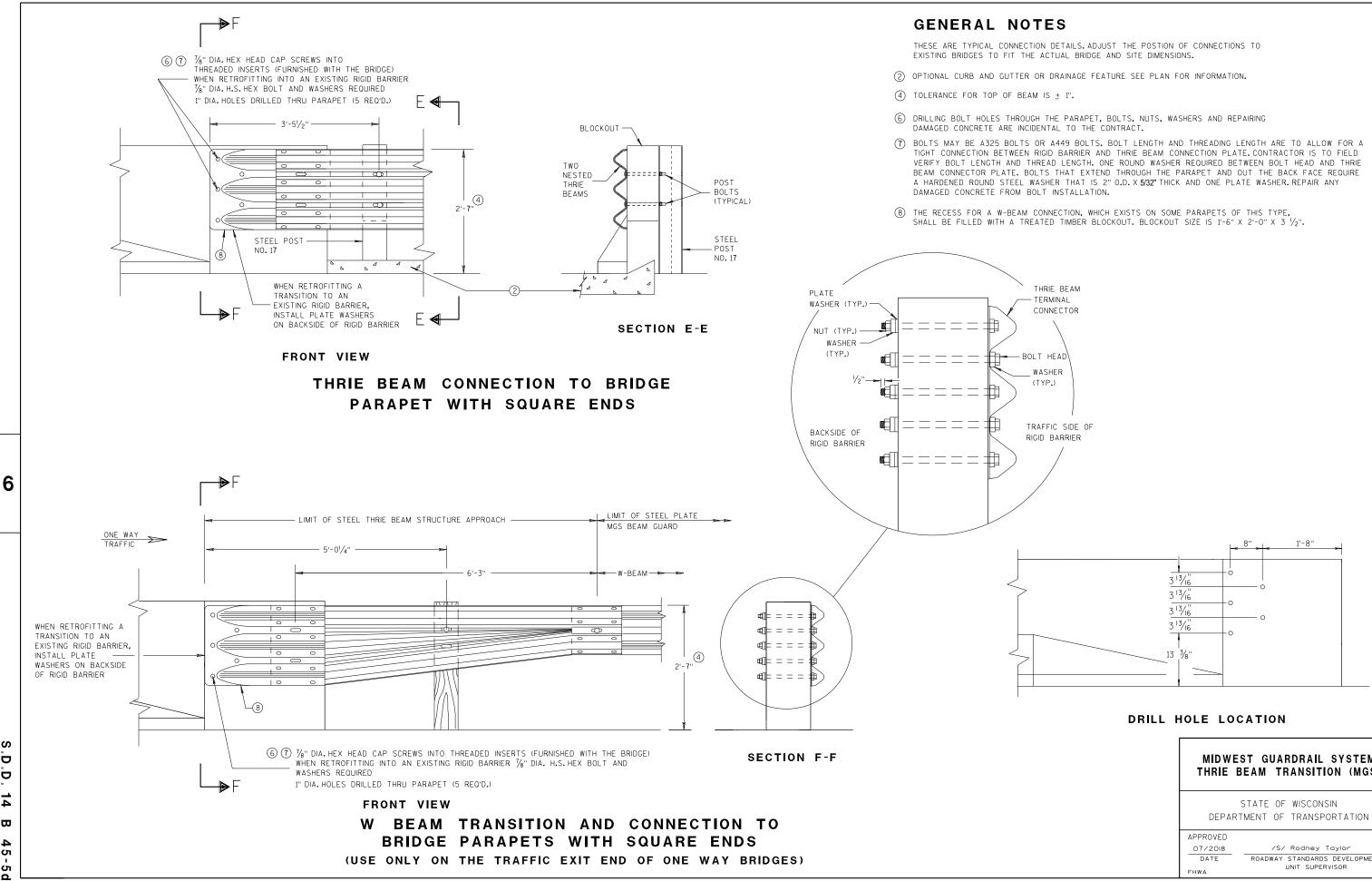
6

45-5c ш 14 Δ Δ

S

# MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

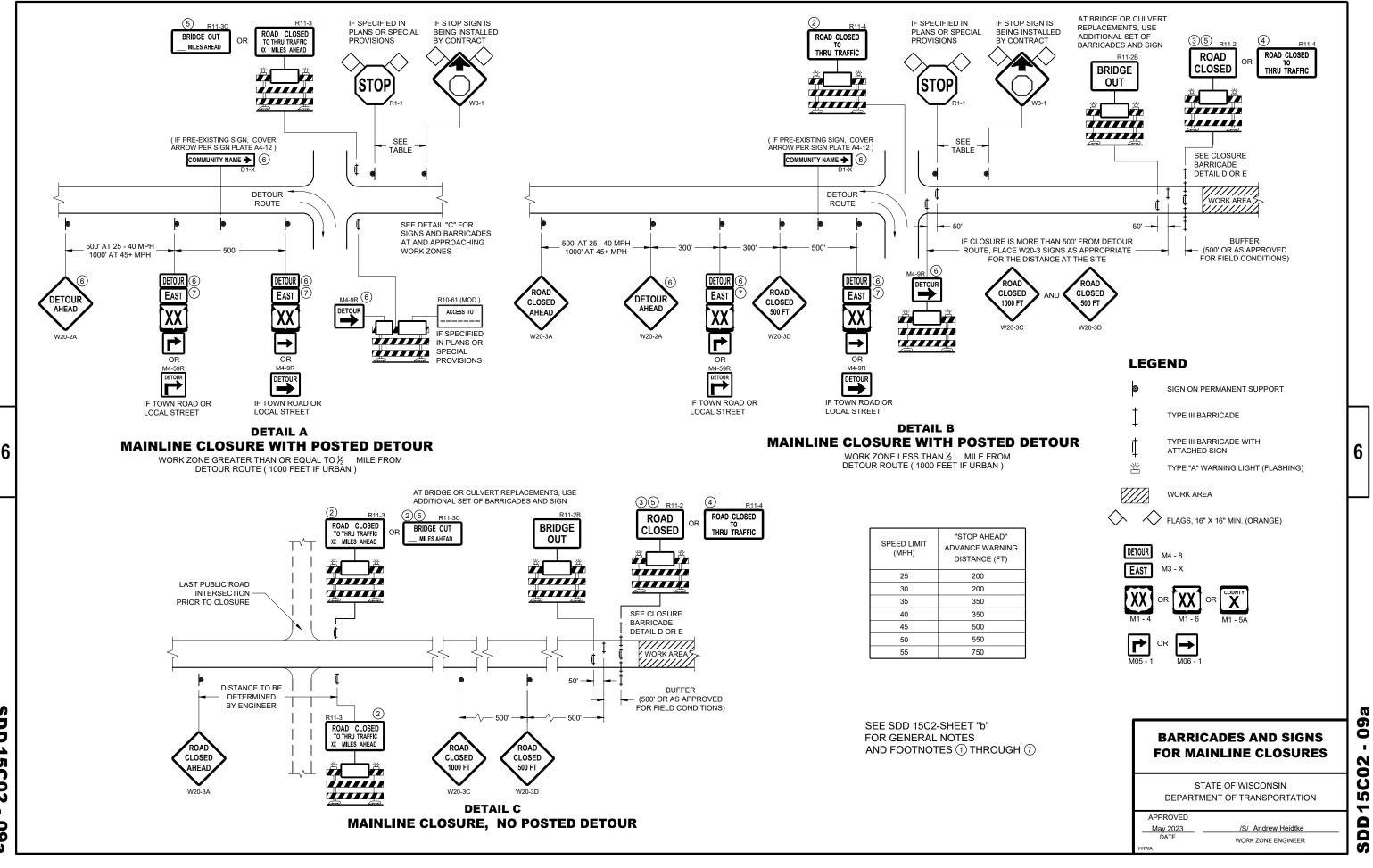


D D 14 Β 4 S сī Q

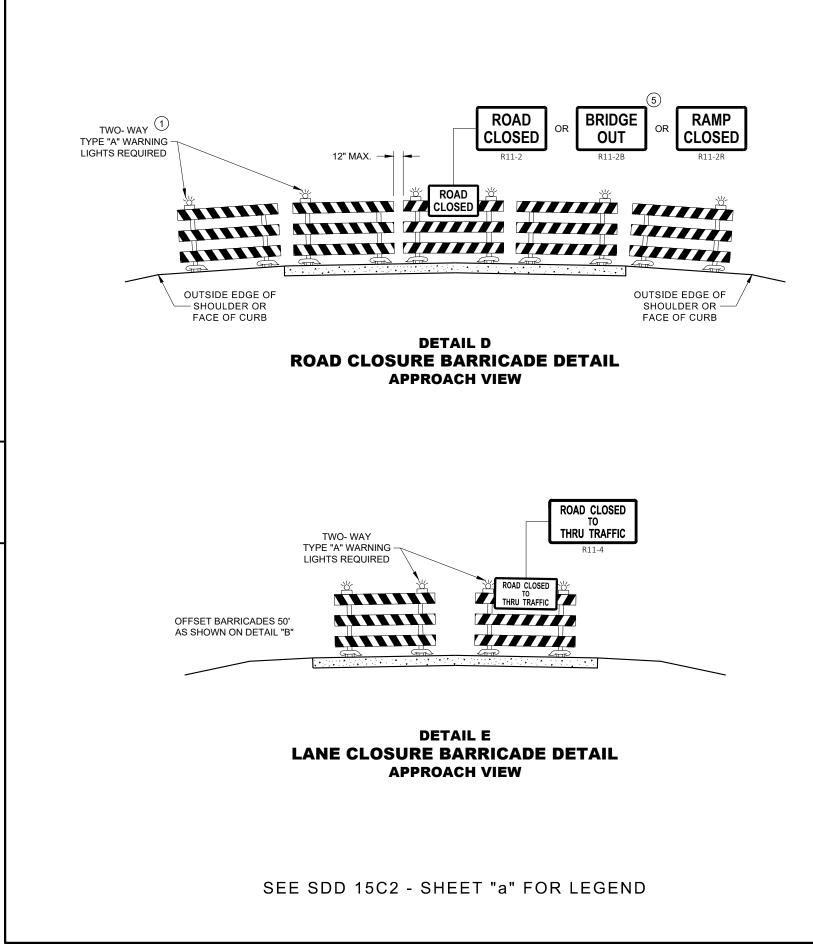
S

ES
DETAILS. ADJUST THE POSTION OF CONNECTIONS TO TUAL BRIDGE AND SITE DIMENSIONS.
DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
5 ± 1".
HE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING FAL TO THE CONTRACT.
A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A D BARRIER AND THRIE BEAM CONNECTION PLATE.CONTRACTOR IS TO FIELD AD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE HER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER.REPAIR ANY INSTALLATION.
NECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, D TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 $V_2$ ".
IE BEAM MINAL NECTOR HEAD HER ?.) FIC SIDE OF BARRIER

	ST GUARDRAIL SYSTEM EAM TRANSITION (MGS)	45-5d
	STATE OF WISCONSIN	<b>_</b> 0
DEPART	MENT OF TRANSPORTATION	4
APPROVED		
07/2018	/S/ Rodney Taylor	
DATE	ROADWAY STANDARDS DEVELOPMENT	
FHWA	UNIT SUPERVISOR	م ا



ğ



# **GENERAL NOTES**

FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SUPPORTS.

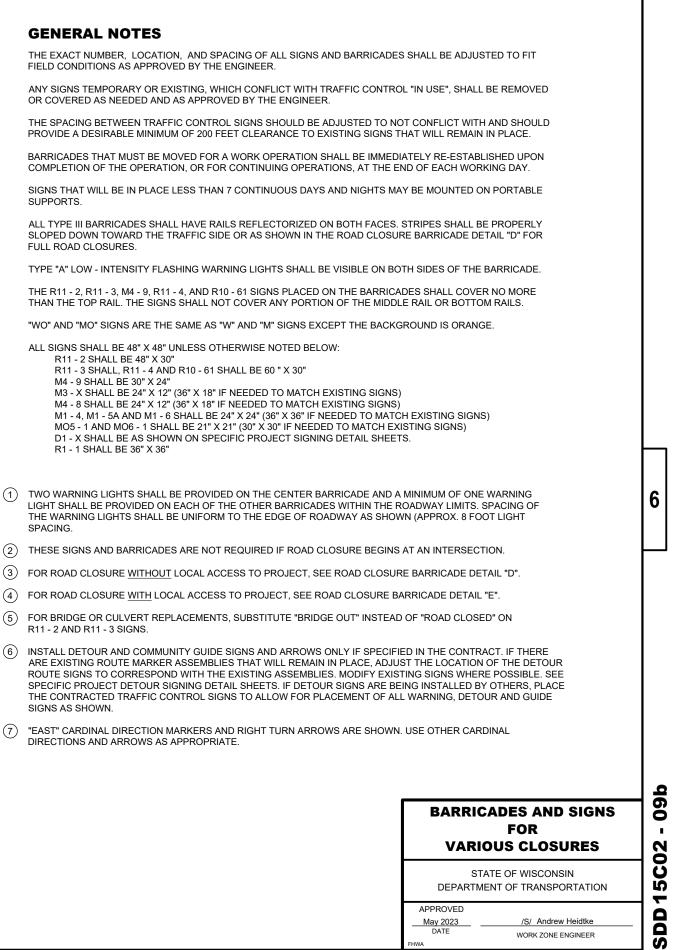
FULL ROAD CLOSURES.

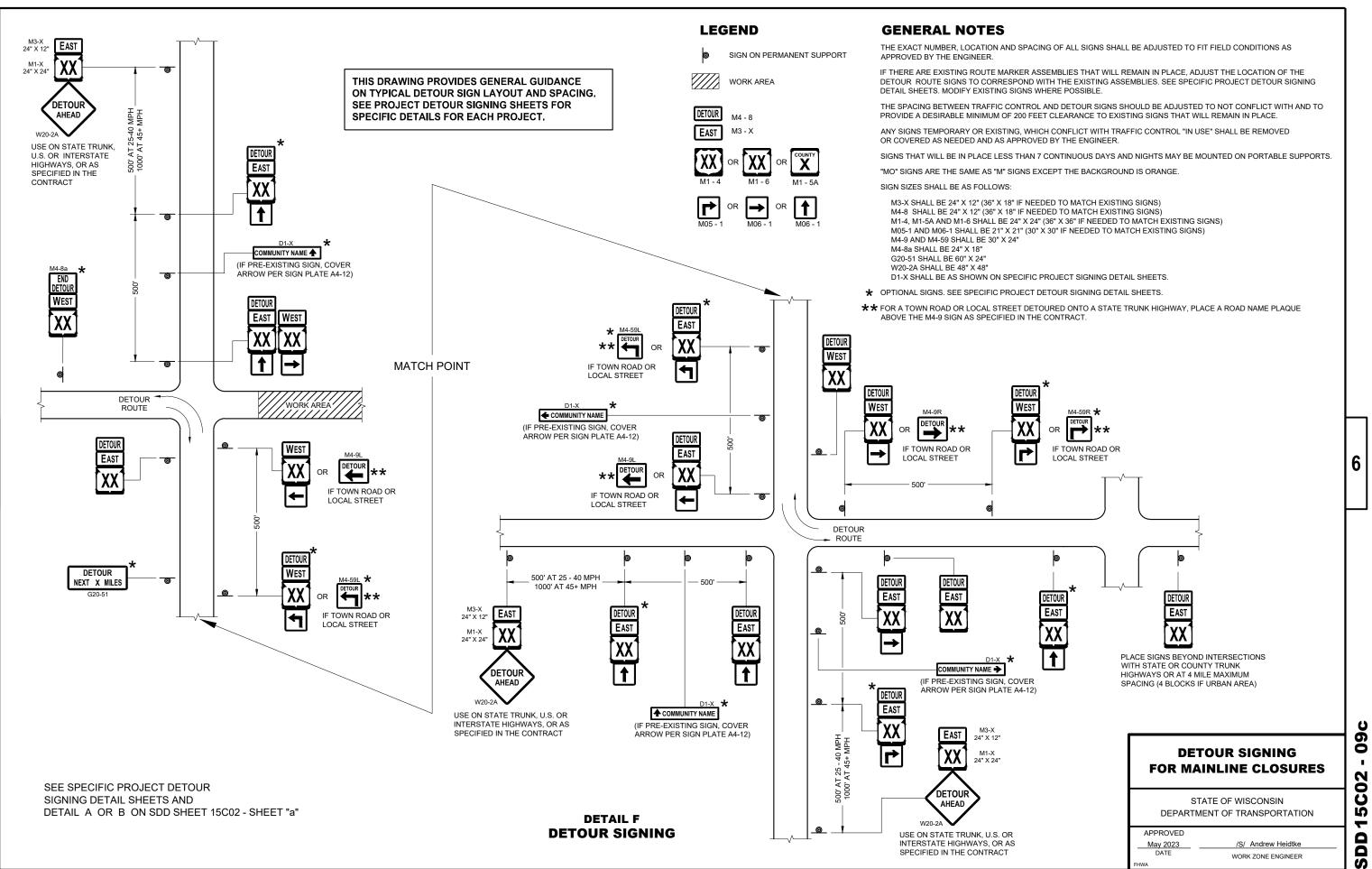
THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

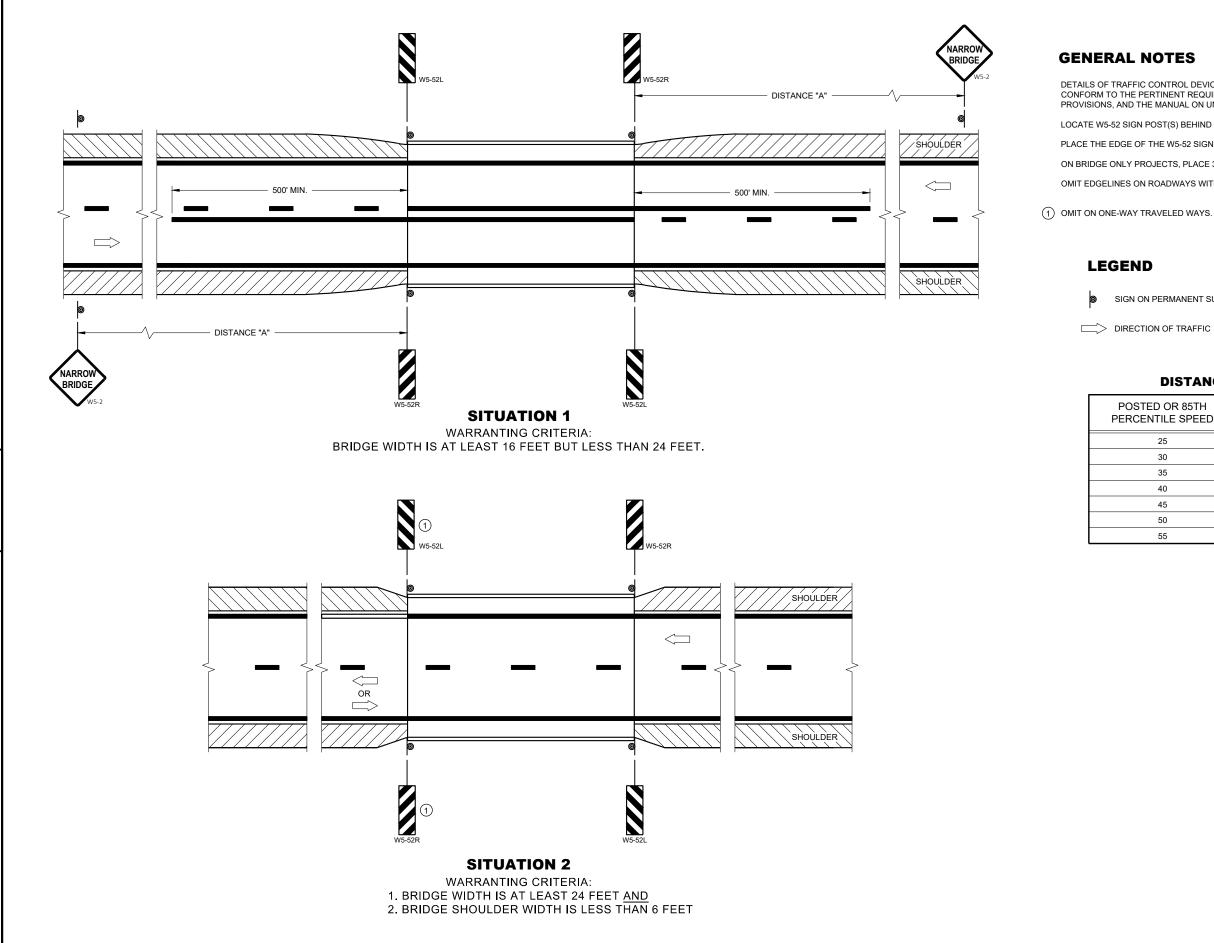
"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

- 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)

  - 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 THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING
- (2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (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 SIGNS AS SHOWN.
- (7)"EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.







SDD

**15C06-12** 

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.

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

# DISTANCE TABLE

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

6

# N ~ -90**0**-Ď ~

Δ

ົ

# SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE

/S/ Jeannie Silver STATE SIGNING AND MARKING ENGINEER

\* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

- 2" MIN. 2

NOTE: TYPICALLY LEFT OF CENTER

LINE IN THE -

OF TRAFFIC

JOINT LINE

\*6" EDGE LINE (WHITE) -

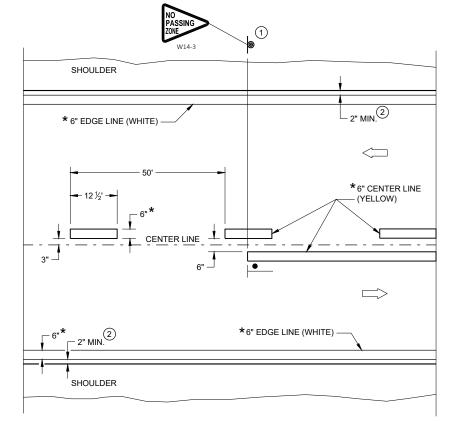
DIRECTION

 $\Box$ 

 $\Box$ 

# (1) Lo (2) M S

• •



**TWO WAY TRAFFIC** 

ONE WAY TRAFFIC

BLACK LAG

MARKING

SHOULDER

6" EDGE LINE (YELLOW) -

2" MIN. 2

SHOULDER

2

3" 🗐

**PERMANENT PAVEMENT MARKING** 

T

50'

LANE LINE

– MARKING

(WHITE)

SDD 15C08-23a

6

# **GENERAL NOTES**

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

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

# LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

**3a** 

C08-2

Ň

ς

SD

# PERMANENT LONGITUDINAL PAVEMENT MARKINGS

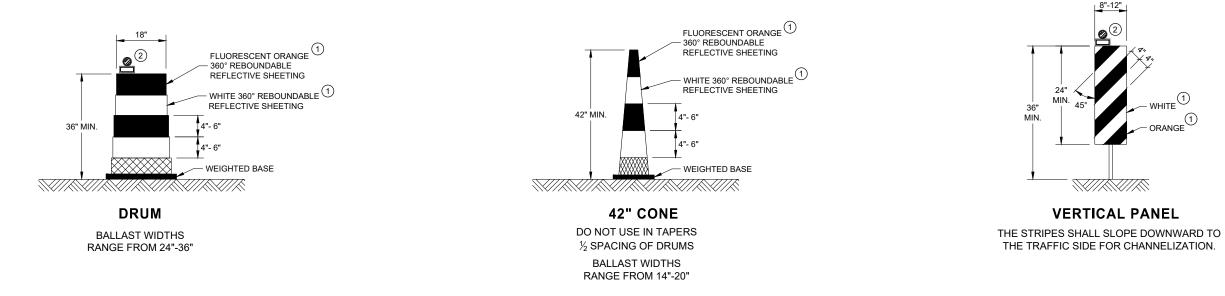
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

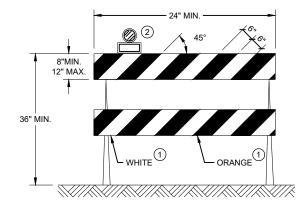
APPROVED May 2023 DATE

/S/ Jeannie Silver STATEWIDE SIGNING AND MARKING ENGINEER

# **GENERAL NOTES**

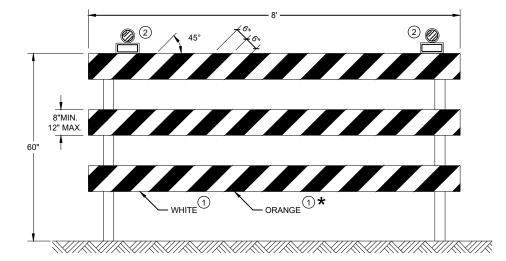
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





**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.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

Ω **5** . ~ ~ 0 Ň ~ 

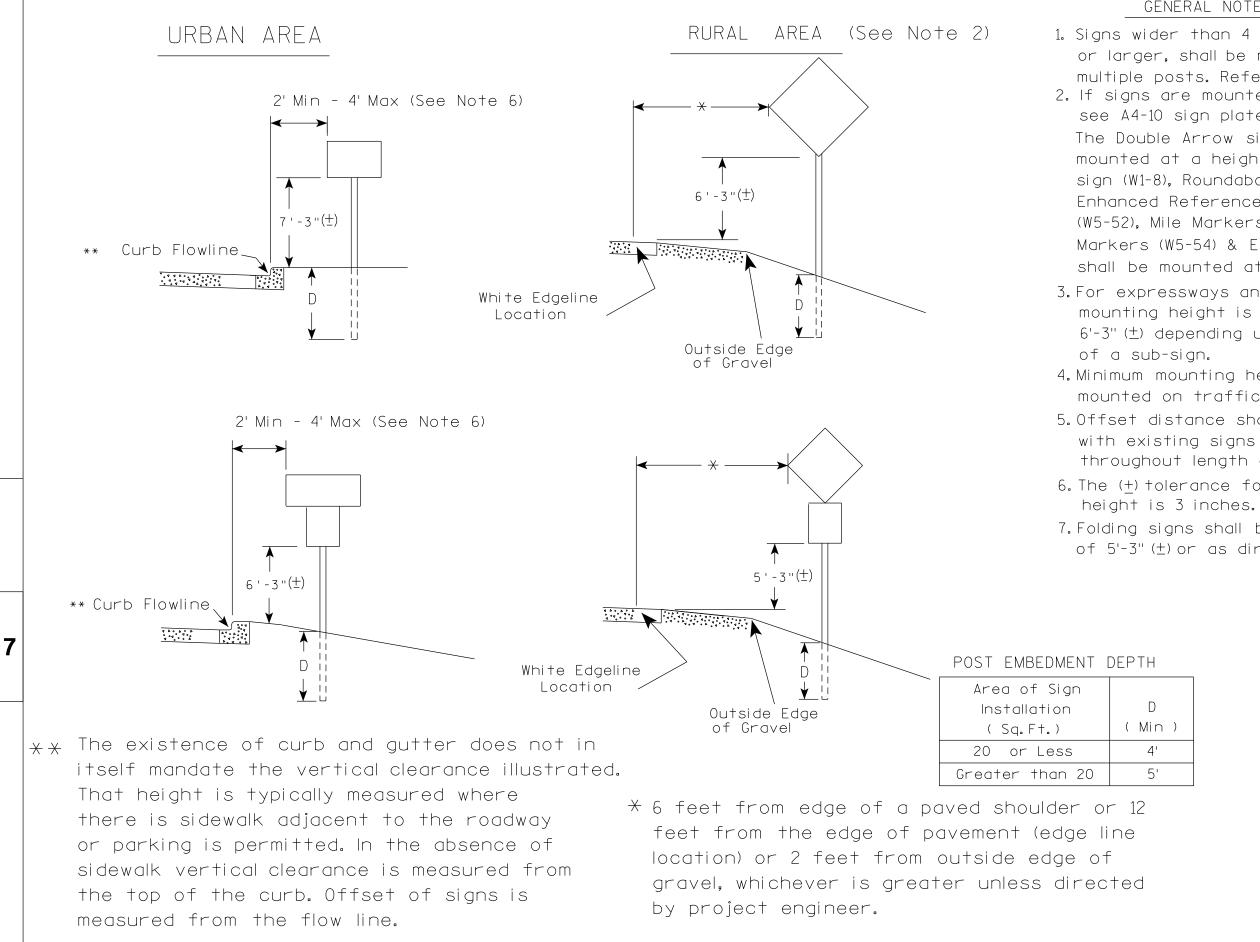
ົ

# **CHANNELIZING DEVICES DRUMS, CONES, BARRICADES** AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2022 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER

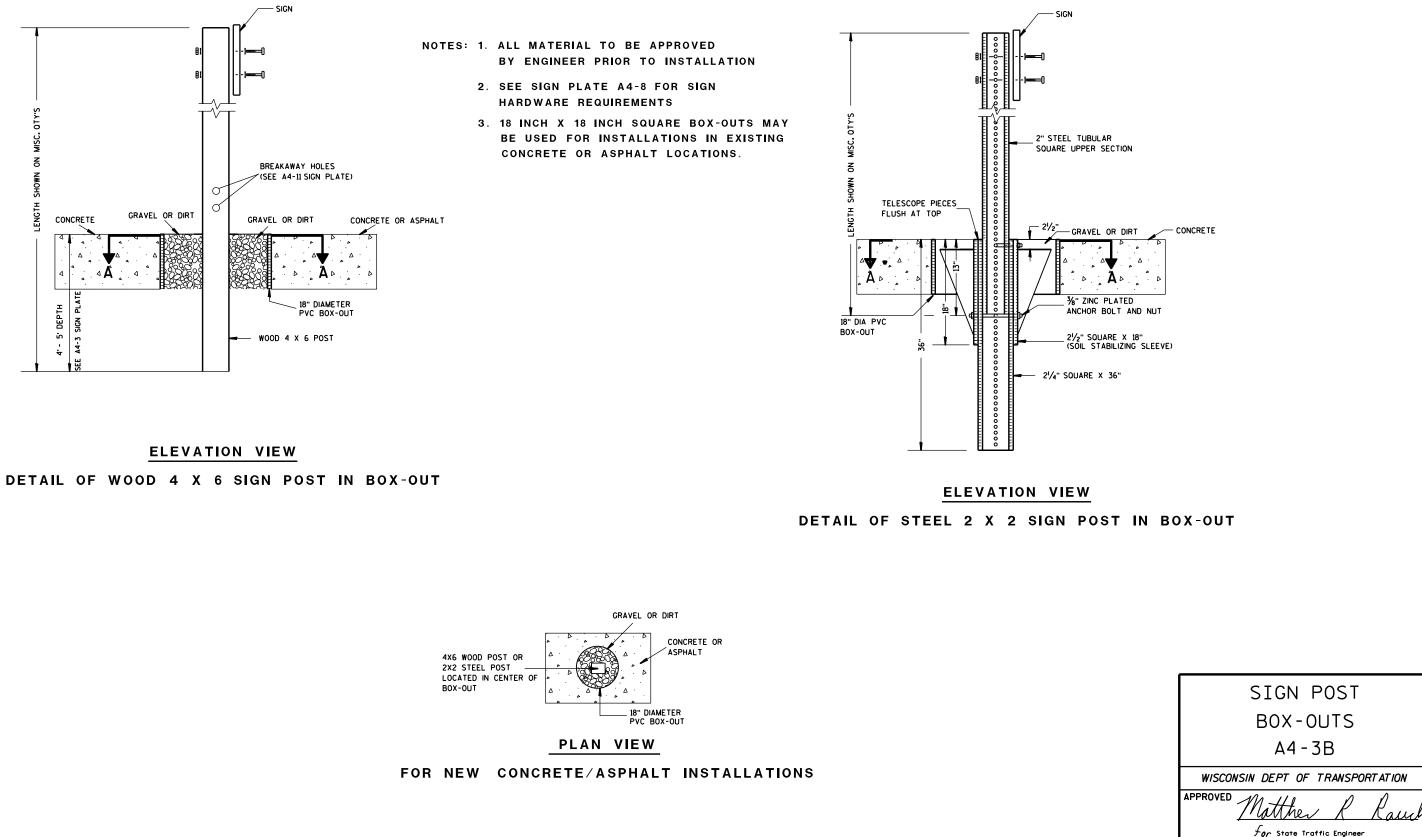


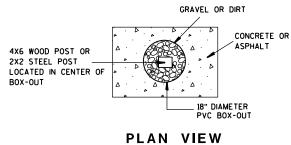
PROJECT NO:	HWY:	COUNTY:			
			DI AT DATE : 43 MAN 0000 4 0	A DI AT DY I IO	DLOT NAME -

# GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4. 2. If signs are mounted on or behind barrier wall. see A4-10 sian 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'' (+). 3. For expressways and freeways, mounting height is 7'- 3" ( $\pm$ ) or  $6'-3''(\pm)$  depending upon existence 4. Minimum mounting height for signs mounted on traffic signal poles is 5' - 3'' (+). 5. Offset distance shall be consistent with existing signs or consistent throughout length of project. 6. The (+) tolerance for mounting 7. Folding signs shall be mounted at a height of 5'-3"  $(\pm)$  or as directd by the Engineer.

)	
	TYPICAL INSTALLATION
	OF PERMANENT TYPE II
	SIGNS ON SINGLE POSTS
	WISCONSIN DEPT OF TRANSPORTATION
	APPROVED Matthew & Rauch For state Traffic Engineer
	DATE <u>5/13/202</u> 0 PLATE NO. <u>44-3.22</u>
	SHEET NO: E
PLOT SCALE : \$\$	WISDOT/CADDS SHEET 42





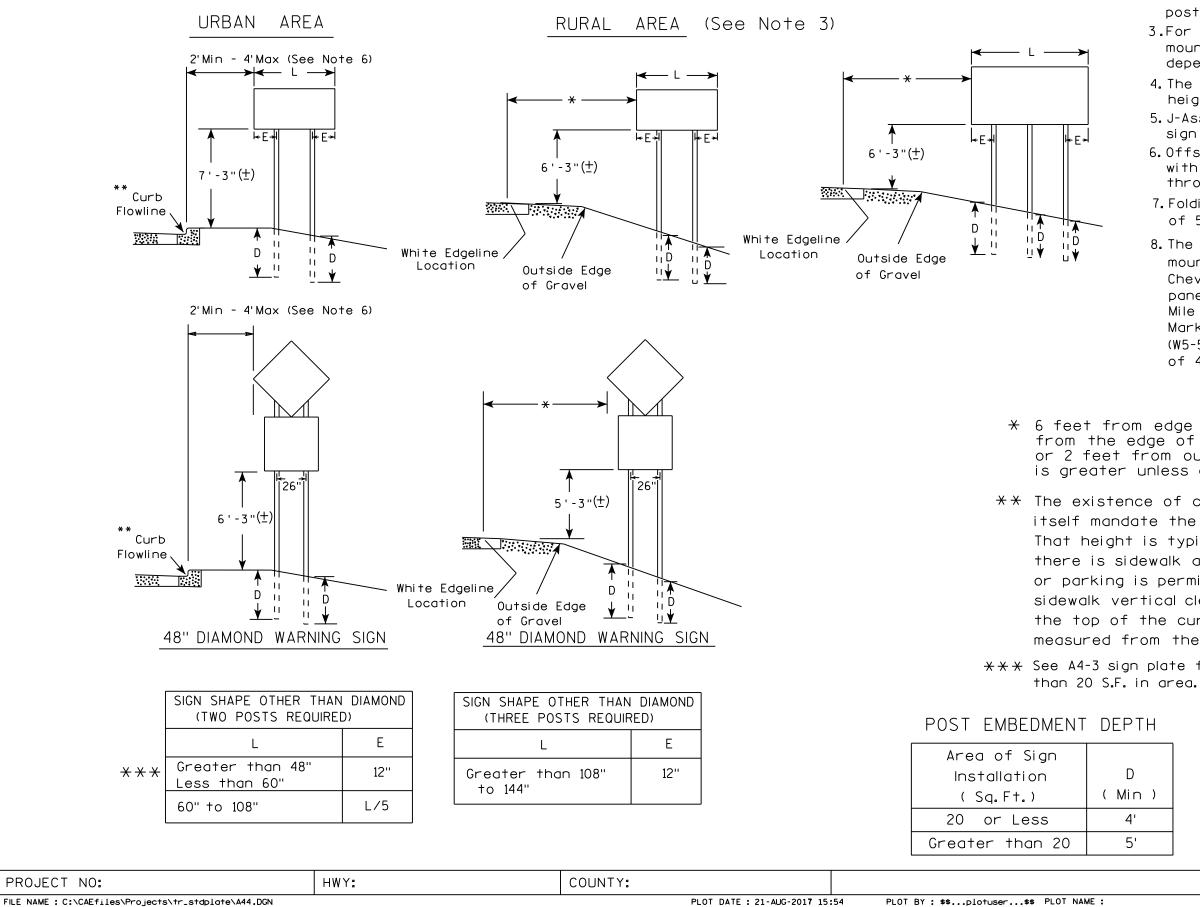
PROJECT NO:	HWY:	COUNTY:				
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN			PLOT DATE : 27-JAN-2014 09:4	8	PLOT BY : mscsja	PLOT NAME :

DATE <u>1/27/14</u>

SHEET NO:

PLATE NO. <u>A4-3B.1</u>

Ε



FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A44.DGN

7

GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3.For expressways and freeways, mounting height is  $7'-3''(\pm)$  or  $6'-3''(\pm)$ 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.

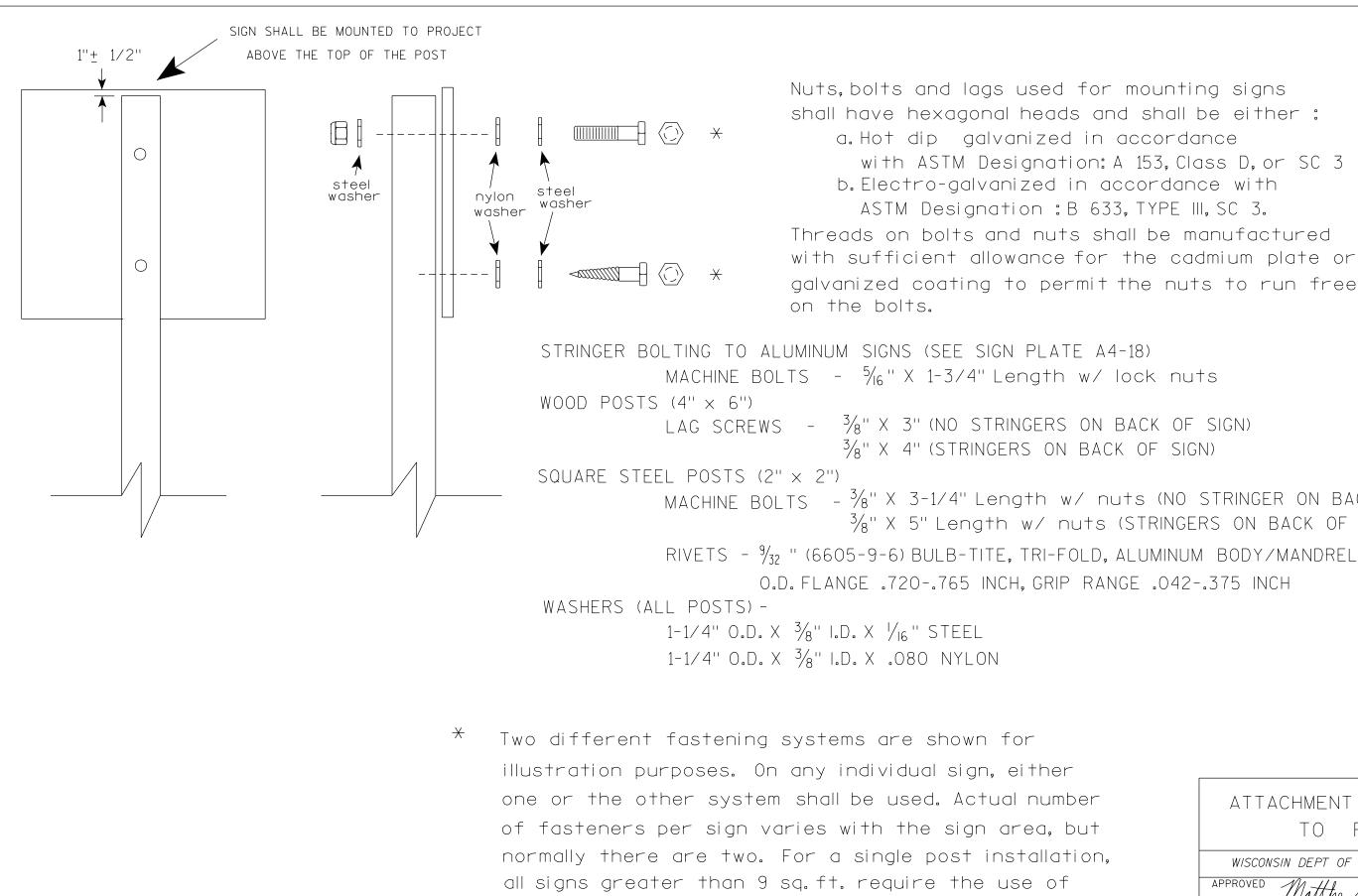
\*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of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

 $\times$   $\times$  See A4-3 sign plate for signs 4' or less in width and less

H	TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS
)	WISCONSIN DEPT OF TRANSPORTATION
,	APPROVED Matther & Rauch
	For State Traffic Engineer
	DATE 8/21/17 PLATE NO. 44-4.15
	SHEET NO: E
DI AT. CA	L 5 - 100 100007-1 00000

PLOT SCALE : 108.188297:1.000000

WISDOT/CADDS SHEET 42



7

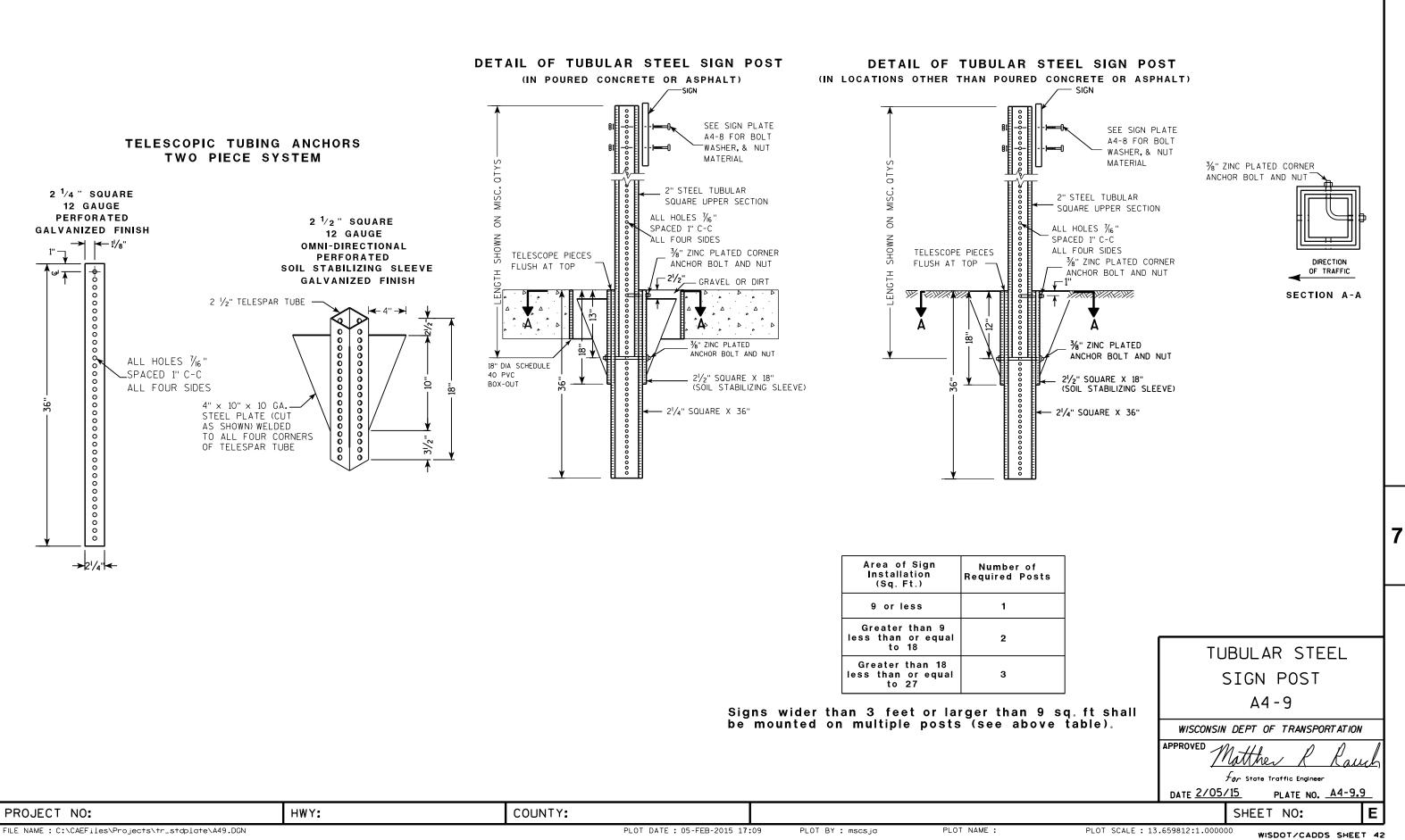
3 fasteners.

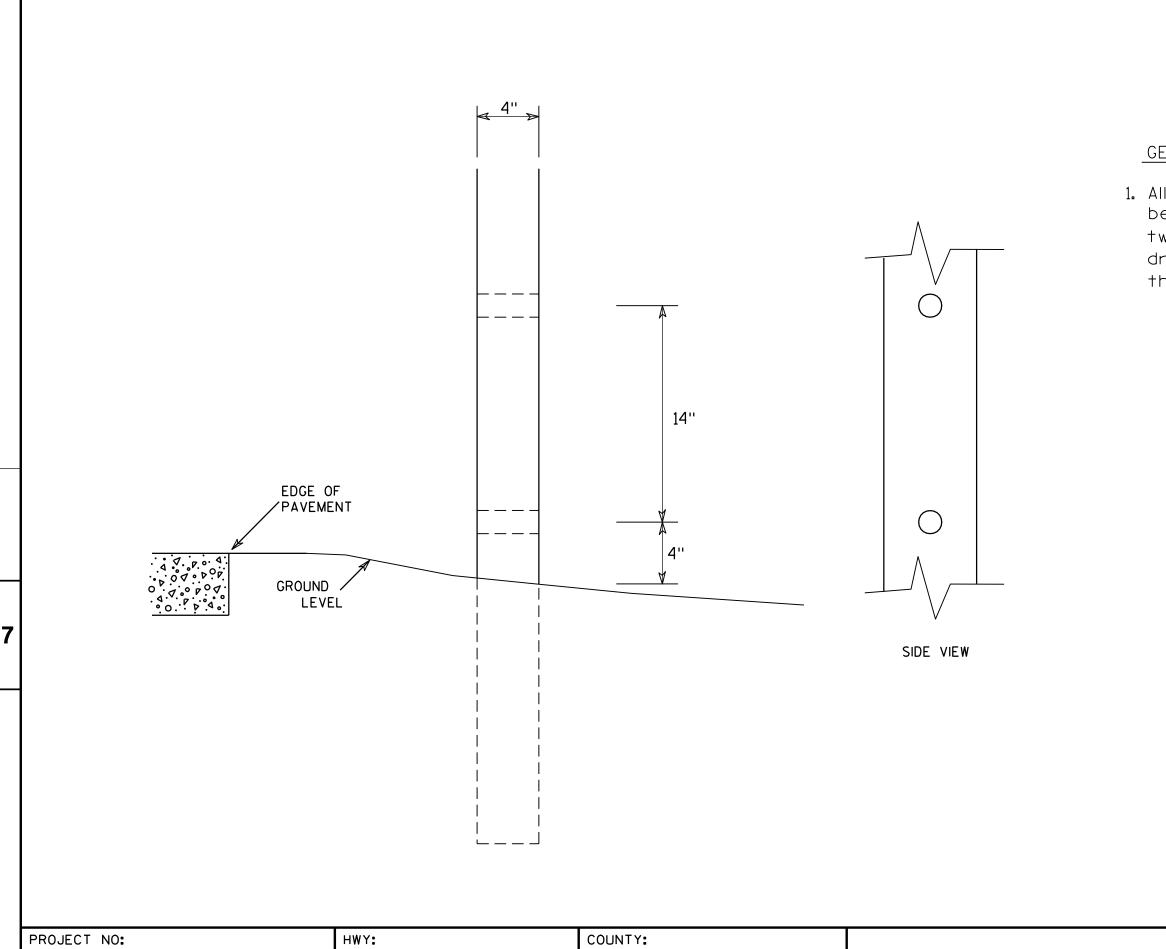
Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either : a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3 b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3. Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely

 $\frac{3}{8}$ " X 4" (STRINGERS ON BACK OF SIGN)

MACHINE BOLTS - <sup>3</sup>/<sub>8</sub>" 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)

ATTACHMENT OF SIGNS TO POSTS
WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R Rauch
∽°r State Traffic Engineer
DATE <u>4/1/202</u> 0 PLATE NO. <u>A4-8.9</u>
SHEET NO: E



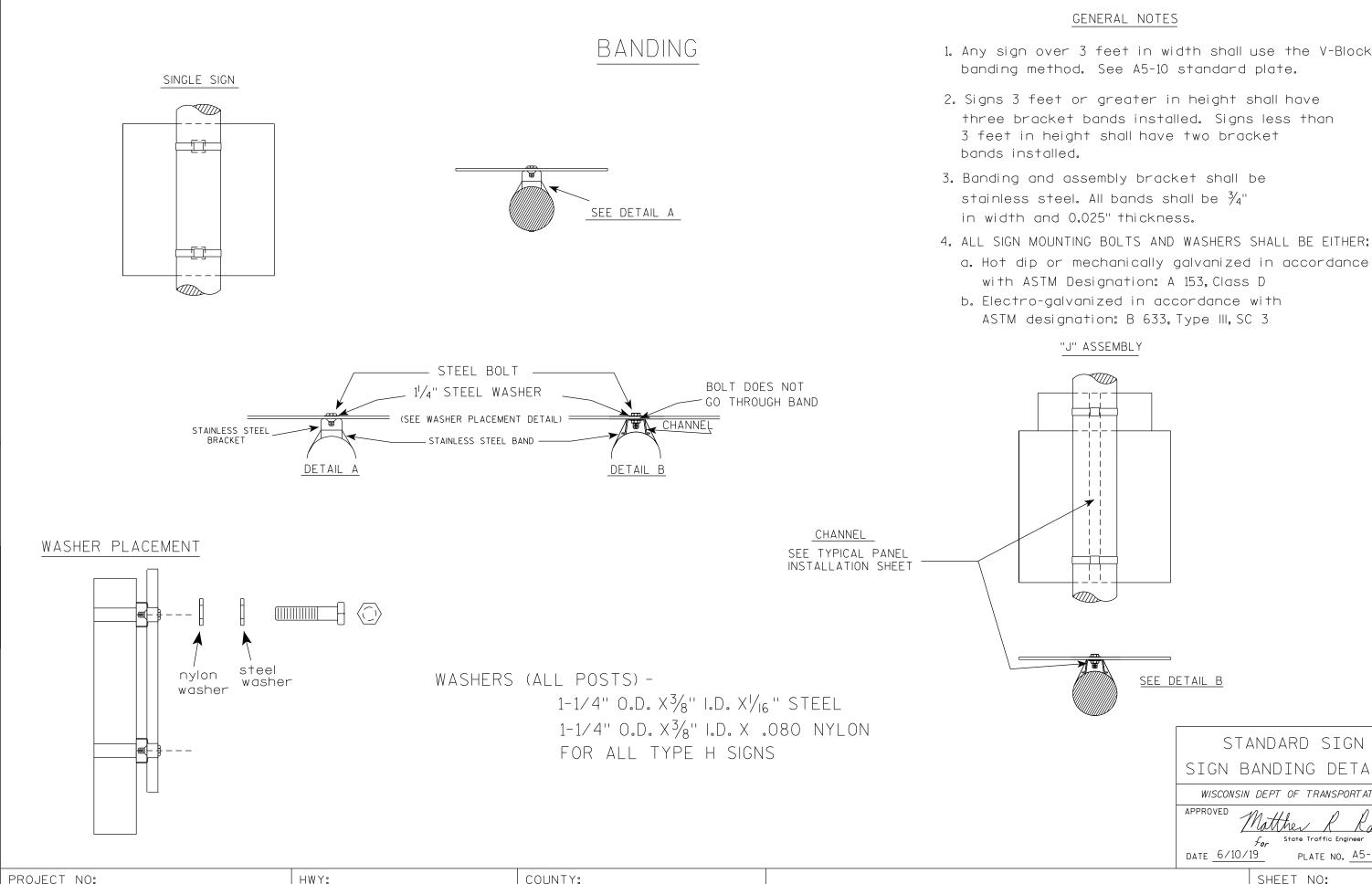


FILE NAME : C:\Users\Projects\tr\_stdplate\A411.DGN

# GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two  $1\frac{1}{2}$ " diameter holes drilled perpendicular to the roadway centerline.

	4	Хe	ô	WOO	DF	POST	
		MOD	IF	FICA	TI	SNC	
	WISC	onsin l	DEF	PT OF T	RANSI	PORTATION	'
	APPROVE	D		hester .	Γέ	Spang	
			tor	State Tr	affic Er	ngineer	
	DATE 3	/27/9	<u>17</u>	PLA	TE NO	<u>A4-11.2</u>	2
			9	SHEET	N0:		Ε
OT SCALE	E:6.20 <b>7</b> 33	8:1.0000	000	WISD	от/с	ADDS SHEE	T 42



FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A59.dgn

7

PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME :

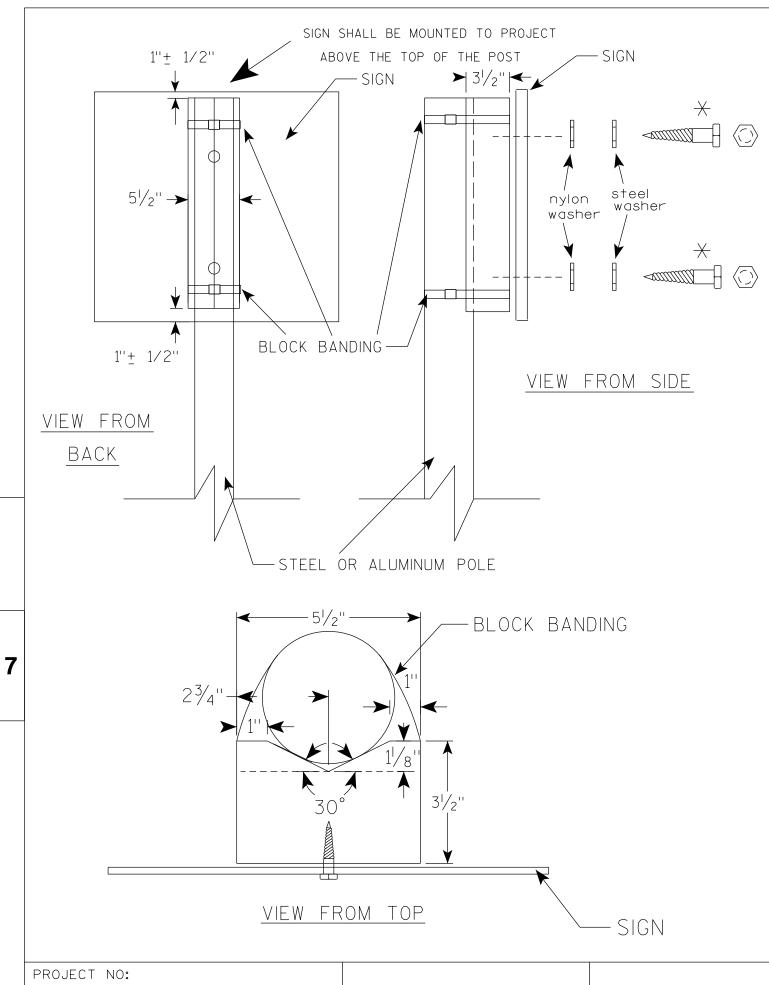
## GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.

three bracket bands installed. Signs less than 3 feet in height shall have two bracket

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

	<u>SEE DETAIL B</u>
	STANDARD SIGN
	SIGN BANDING DETAILS
	WISCONSIN DEPT OF TRANSPORTATION
	APPROVED Matthe Rauch
	DATE 6/10/19 PLATE NO. 45-9.4
	SHEET NO: E
PLOT S	CALE : \$\$plotscale\$\$ WISDOT/CADDS SHEET 42



# GENERAL NOTES

- WISDOT STANDARD SPECIFICATIONS
- AND 0.025" THICKNESS
- 9 S.F. 3 FASTENERS SHALL BE USED.
- with ASTM Designation: A 153, Class D
  - b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE  $1^{1}/_{4}$ " O.D. X  $\frac{3}{8}$ " I.D. X  $\frac{1}{16}$ "
- OR TYPE E EACE SIGN

 $\times$  LAG BOLTS SHALL BE  $\frac{3}{8}$ " X 2<sup>1</sup>/<sub>2</sub>"

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A510.dgr

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE

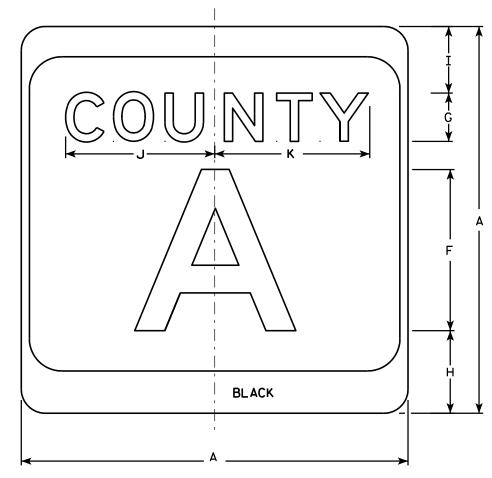
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL,  $\frac{3}{4}$ " WIDTH

3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER: a. Hot dip or mechanically galvanized in accordance

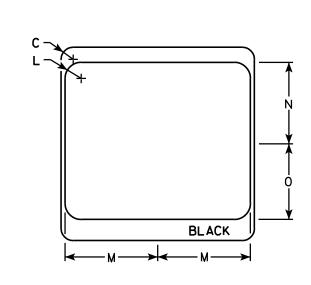
8. NYLON WASHERS SHALL BE  $1^{1}/_{4}$ " O.D. X  $\frac{3}{8}$ " I.D. X .080 FOR TYPE H

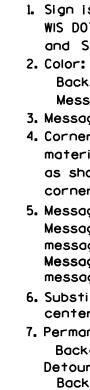
BLOCK BANDING DETAIL ( V-BLOCK OPTION )
WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R Rauch
<i>for</i> State Traffic Engineer
DATE <u>4/19/2022</u> plate no. <u>45-10.3</u>
SHEET NO: E
i i i i i i i i i i i i i i i i i i i

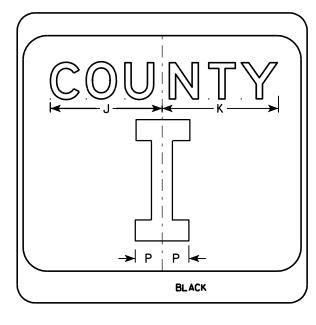
WISDOT/CADDS SHEET 42

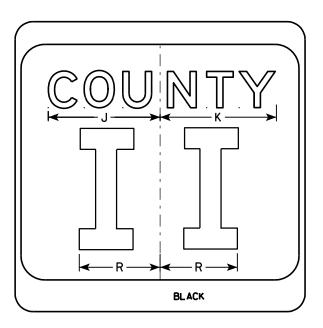












SIZE	Α	В	С	D	E	F	G	н	I	J	ĸ	L	M	N	0	Р	0	R	S	Т	U	v	W	X	Y	Γ
1																										
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1⁄4	9 5⁄8	2	11 1/2	10 1⁄8	9 3/8	2 1⁄4		6 5/8							1	
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1⁄4	12 1/8	3	17 1/8	15 1⁄4	14	3 3/8		10							1	
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1⁄4	12 7/8	3	17 1/8	15 1⁄4	14	3 3/8		10								
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1⁄4	12 7/8	3	17 1/8	15 1⁄4	14	3 3/8		10								
PROJECT NO: HWY: COUNTY:																										
FILE I	AME : C:	\Users\P	ROJECTS	tr_stdpla	+e\M15A.[	DGN										PLOT DATE	: 29-SE	P-2011 11	:25	PLOT	BY : mscs	sja		PLOT NAME	: :	

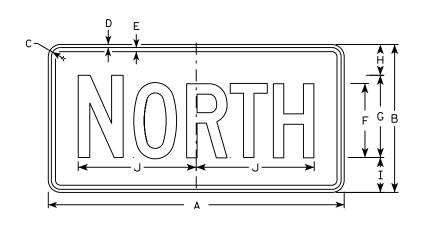
7

TE : 29-SEP-2011 11:25

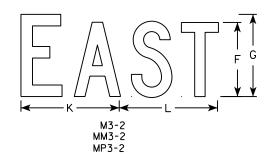
## NOTES

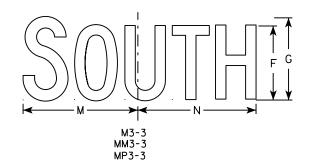
1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. Background - White & Black - See Note 7 Message - Black 3. Message Series - see Note 5 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded. 5. Message Series E for 1 letter. Message Series D for 2 letters unless message is too big then Series C. Message Series C for 3 letters unless message is too big then Series B. 6. Substitute appropriate letters & optically center to achieve proper balance. 7. Permanent Signs Background - Type H Reflective Detour or temporary Signs Background - Reflective

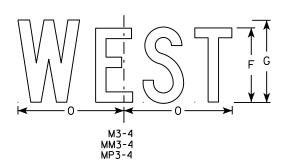
Z Area sq. fi			CTH N	IARKER									
		M1-5	A FOR	ASSEME	LIES								
4.0		WISCONSIN DEPT OF TRANSPORTATION											
9.0		APPROVED	MI	ι <i>Λ</i>	1	1							
9.0	)	Forstate Traffic Engineer											
9.0	)	DATE 9/2		PLATE NO.		_							
			SHEET	NO:		Ε							
P	_OT SCALE : 5.9590	043:1.000000	WISE	OT/CADDS	SHEET	42							











F

6

9

9

9

G

7

10

10

10

HWY:

н

2 1/4 2 3/4

3 3/4 4 1/4

3 3/4 4 1/4

Ι

3 3/4 4 1/4 14 3/8

к

10 1/4 7 7/8 8 3/8

12

12

12

J

14 3/8

14 3/8

М

14

14

14

10 1/4 9 3/4

L

12 1/8

12 1/8

12 1/8

Ν

14 <sup>1</sup>/8

14 1/8

14 1/8

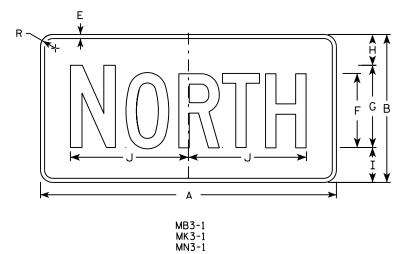
Е

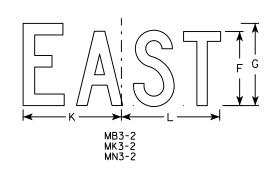
3⁄8

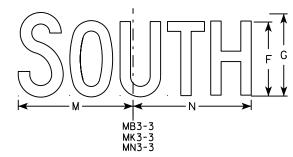
1/2

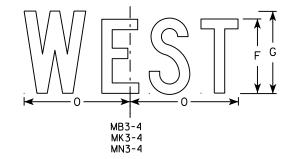
 $\frac{1}{2}$ 

1/2









Ρ

Q

R

1 1/2

1 1/2

1 1/2

1 1/2

S

Т

NOT

- All Signs Type I
   Color:
  - Background -Message - Se
- 3. Message Series
- 4. Corners may be material is plyw as shown. When corners and bo
- 5. M3-1 thru M3-4

MB3-1 thru MB3.

- MK3-1 thru MK3-
- MM3-1 thru MM3-
- MN3-1 thru MN3-
- MP3-1 thru MP3
- 6. Note the first than the remai

Х

Y

W

7

PROJECT NO:

Α

24

36

36

36

В

12

18

18

18

С

1 1/8

1 1/8

1 1/8

1 1/8

SIZE

1

3

4

5

FILE NAME · C·\CAFFiles\Projects\tr\_stdplote\M31\_DCN

D

⅔

⅔

⅔

⅔

COUNTY:

0

8 3⁄4

13

13

13

PLAT DATE . AL-DEC-2015 17.54 PLAT RY . \$\$ Diatuser \$\$ PLAT NAME :

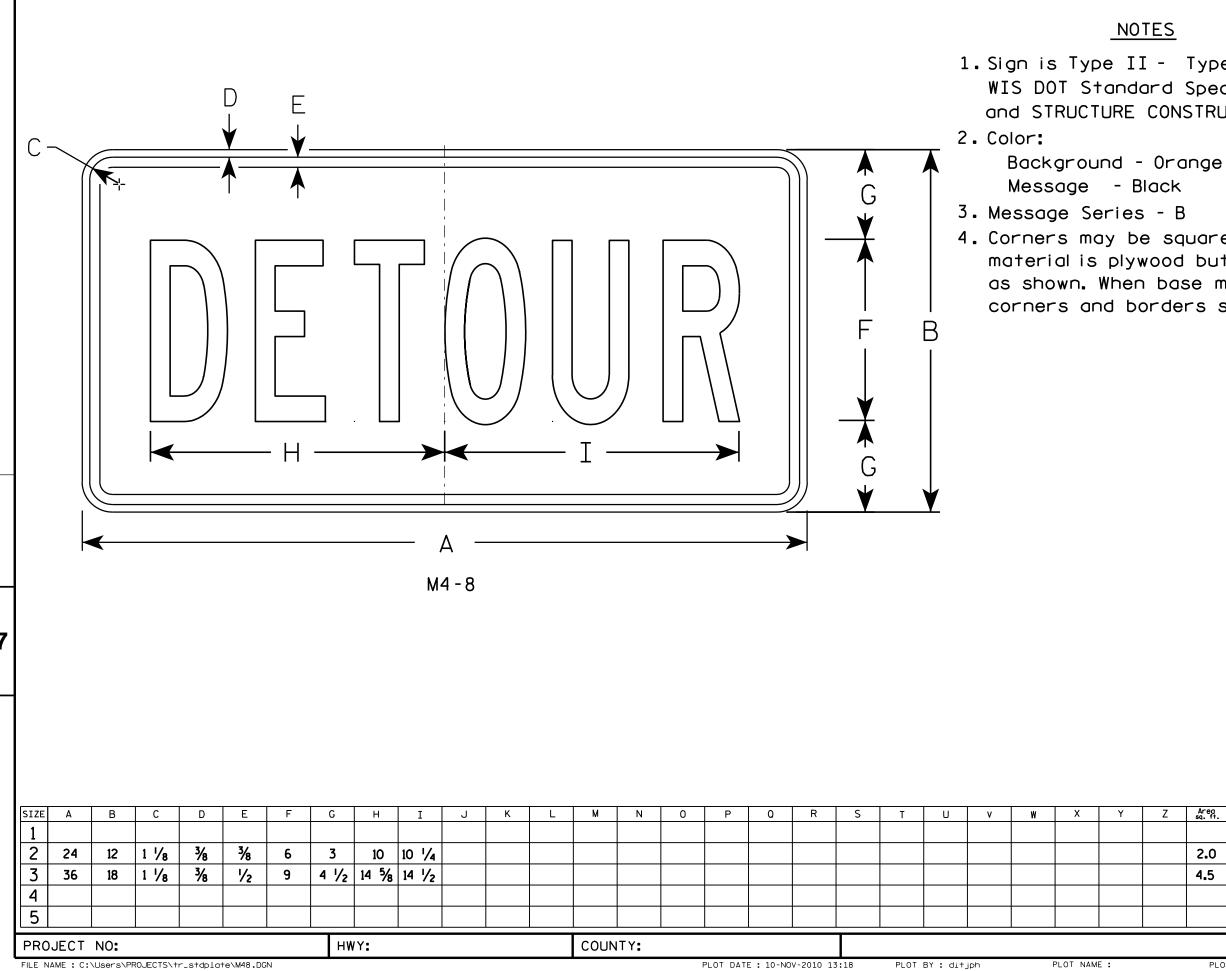
U

۷

<u>TES</u> II - Type H
See note 5 See note 5 s - C e square or rounded when base wood but borders shall be rounded n base material is metal, the orders shall be rounded.
Background - White Message - Black -4 Background - Blue Message - White
-4 Background - Green
Message - White -4 Background - White
Message - Green -4 Background - Brown
Message - White -4 Background - White
Message – Blue t letter of each direction is larger inder of the message.

		STANDARD SIGNS
Z	Area sq. ft.	M3-1thur M3-4
		SERIES
	2.00	WISCONSIN DEPT OF TRANSPORTATION
	4.5	APPROVED Matthew P Paul
	4.5	for State Traffic Engineer
	4.5	DATE 10/15/15 PLATE NO. M3-1.14
		SHEET NO:

-



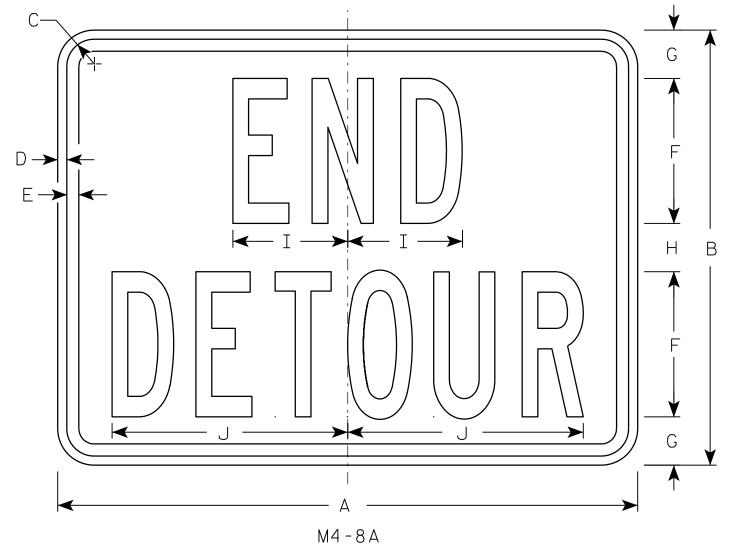
1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

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

Z Areo sq. ft.	STANDARD SIGN
∠ sq. tt.	M4 - 8
2.0	WISCONSIN DEPT OF TRANSPORTATION
4.5	APPROVED Matther & Rauch
	PLATE NO. M4-8.2
	SHEET NO:
PLOT SCALE : 4.7	WISDOT/CADDS SHEET 4



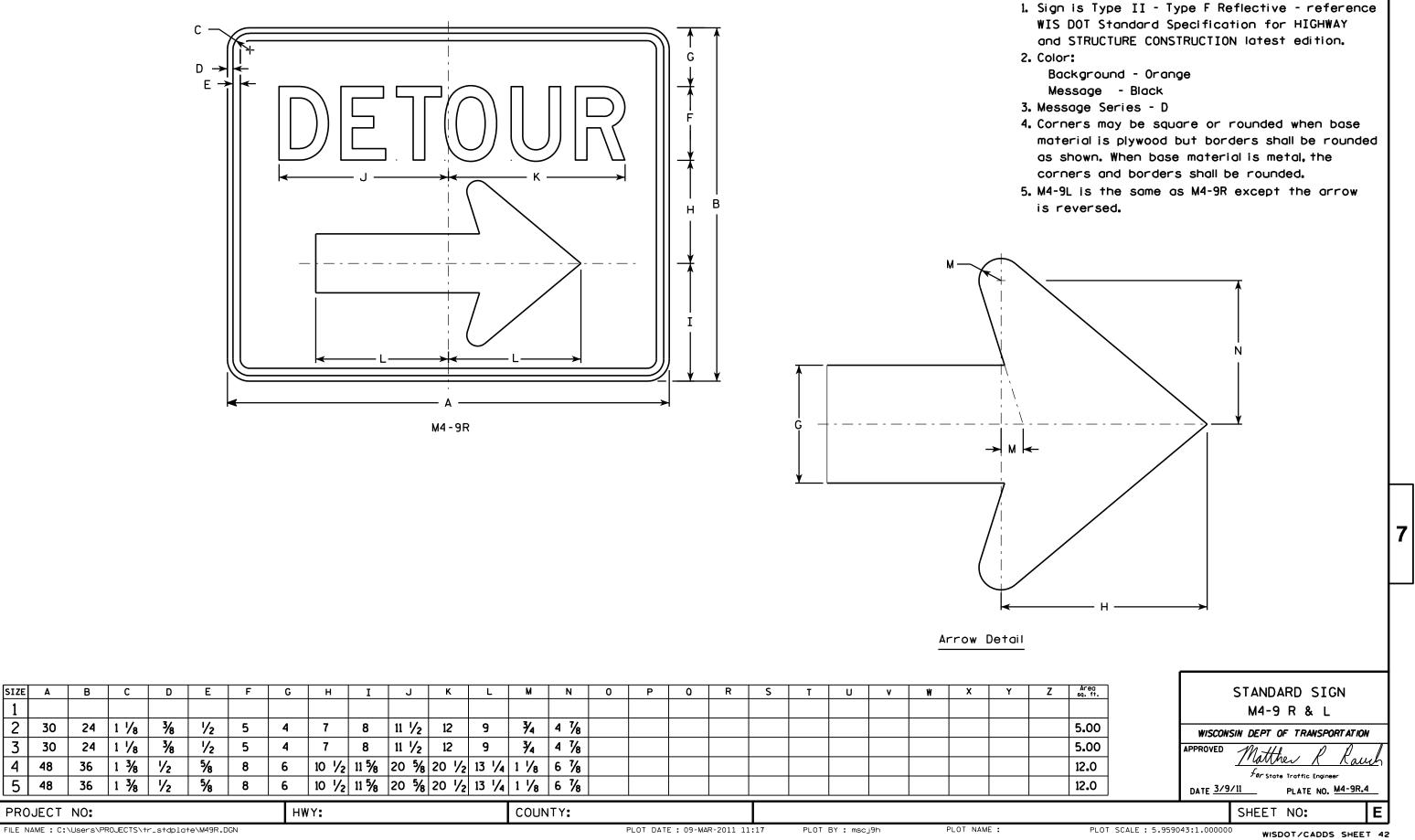
- WIS DOT Standard and STRUCTURE CON
- 2. Color:
  - Background Or Message – Black
- 3. Message Series -
- 4. Corners may be so material is plywood as shown. When ba corners and borde



SIZE	Α	В	С	D	E	F	G	н	I	J	к	L	м	N	0	Р	0	R	S	Т	U	v	W	X	Y	
1																										
2	24	18	1 1/8	3⁄8	1/2	6	2	2	4 3/4	9 3⁄4																
3	30	24	1 1/8	3⁄8	1/2	8	2 1/2	3	6 3⁄4	13																
4																										
5																										
PRC	PROJECT NO: HWY: COUNTY:																									
FILE N	ILE NAME : C:\Users\PR0JECTS\tr_stdplate\M48A.DGN PLOT DATE : 09-MAR-2011 10:29 PLOT BY : mscj9h PLOT NAME :																									

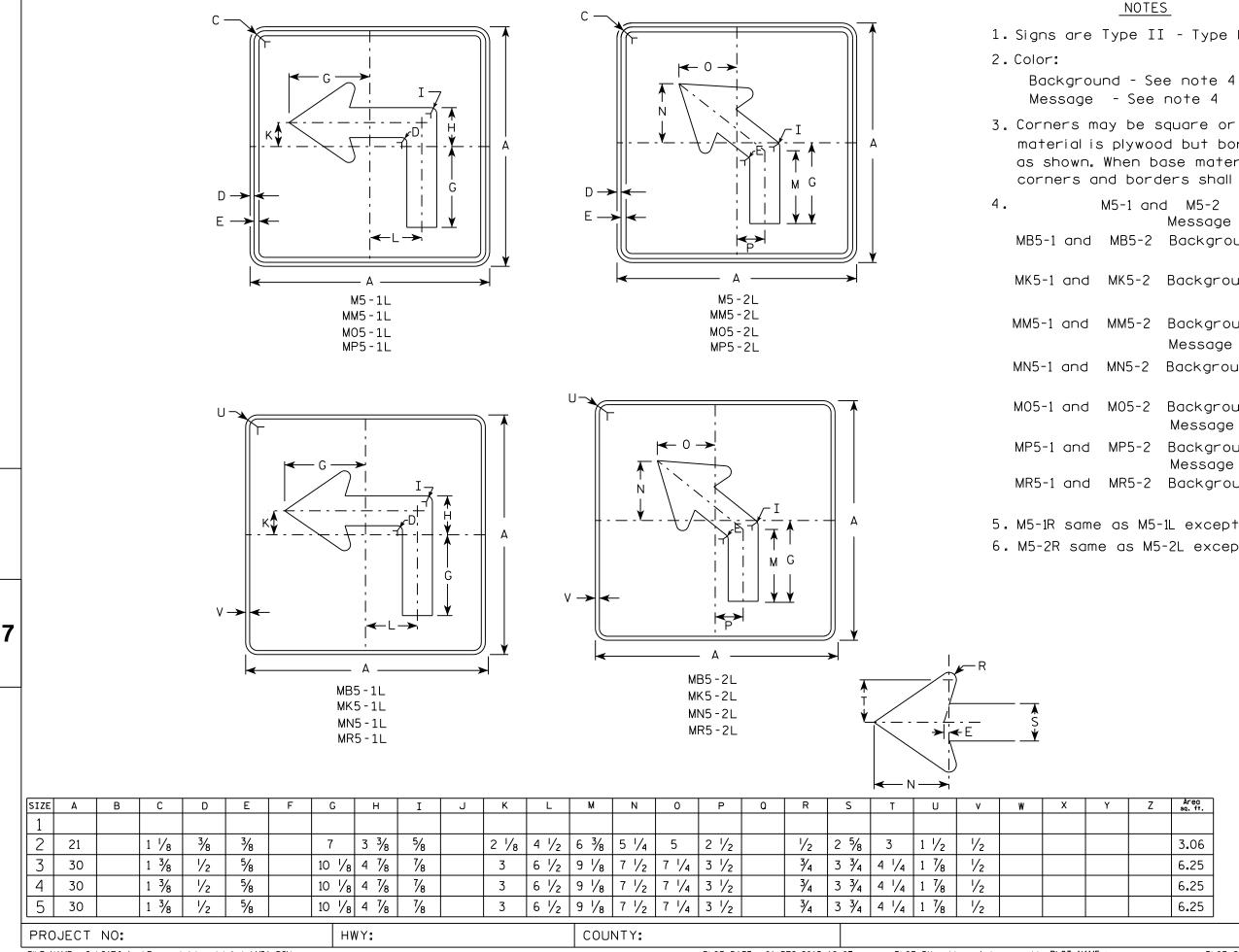
NOTES

Specificatio	lective – reference on for HIGHWAY latest edition.
ange < B	
quare or ro d but borde	unded when base rs shall be rounded is metal, the rounded.
Z Area sq. ft.	STANDARD SIGN M4-8A
3.0	WISCONSIN DEPT OF TRANSPORTATION
5.0	APPROVED Matther & Rauch
	DATE <u>3/9/11</u> PLATE NO. <u>M4-8A.2</u>
	SHEET NO: E
PLOT SCALE :	3.972696:1.000000 WISDOT/CADDS SHEET 42



SIZE

## NOTES



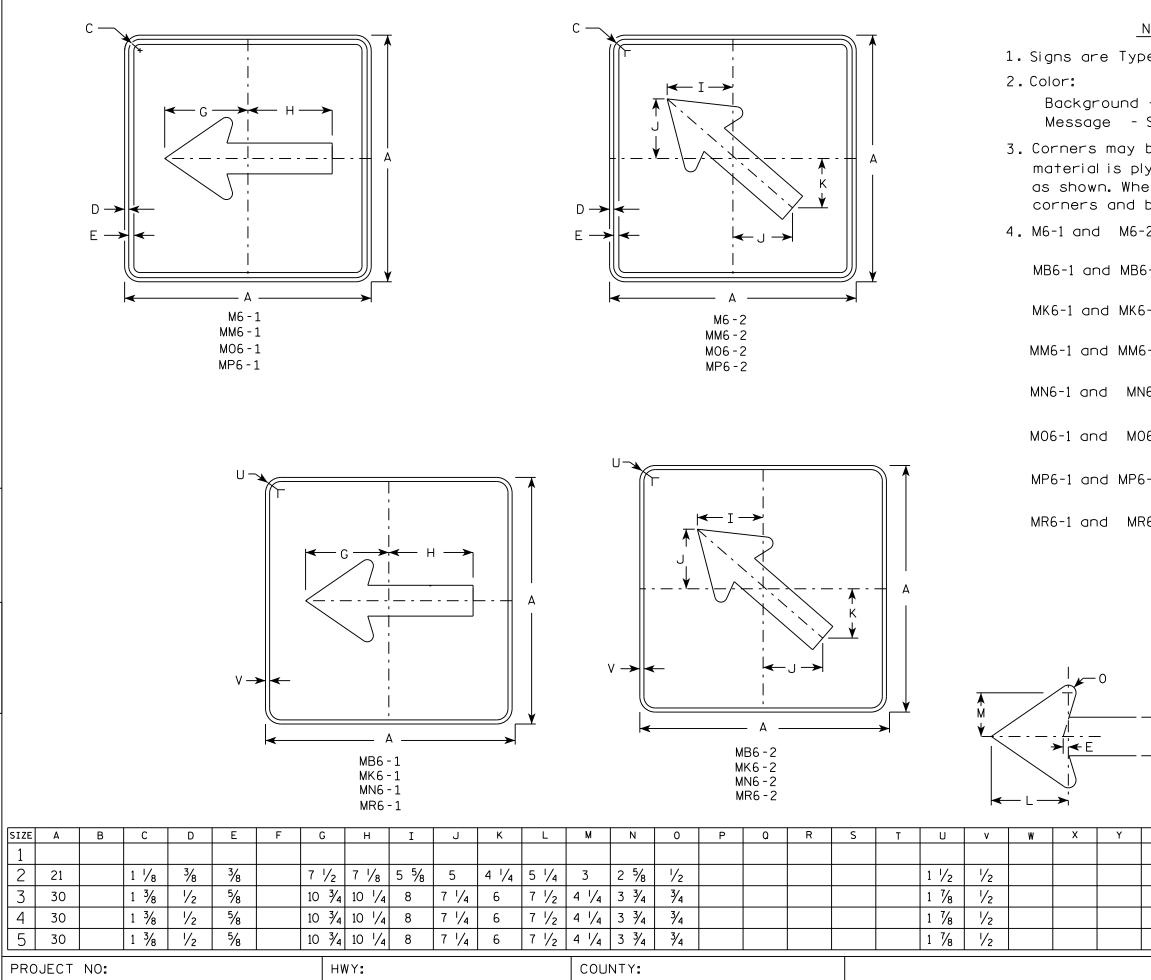
FILE NAME . C.\CAEfiles\Projects\tr\_stdplate\M51 DGN

PLOT DATE . 01-DEC-2015 18.07

PLOT BY . \$\$ DIOTUSER \$\$ PLOT NAME :

```
NOTES
1. Signs are Type II - Type H reflective except as shown
3. Corners may be square or rounded when base
   material is plywood but borders shall be rounded
  as shown. When base material is metal, the
  corners and borders shall be rounded.
            M5-1 and M5-2
                             Background - White
                    Message - Black
  MB5-1 and MB5-2 Background - Blue
                              Message - White
  MK5-1 and MK5-2 Background - Green
                             Message - White
  MM5-1 and MM5-2 Background - White
                    Message - Green
  MN5-1 and MN5-2 Background - Brown
                             Message - White
  M05-1 and M05-2 Background - Orange - Type F Reflective
                    Message - Black
  MP5-1 and MP5-2 Background - White - Type H Reflective
                    Message - Blue
  MR5-1 and MR5-2 Background - Brown
                             Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.
```

	Aree	STANDARD SIGN	
Z	Area sq. ft.	M5-1 & M5-2	
	3.06	WISCONSIN DEPT OF TRANSPORTATION	
	6.25	APPROVED Matthew & Rauch	
	C 05	T'un March Rallich	-
	6 <b>.</b> 25	for State Traffic Engineer	
	6.25	DATE 10/15/15 PLATE NO. M5-1.13	_
		SHEET NO:	Ε



FILE NAME · C·\CAEfiles\Projects\tr\_stdplate\M61\_DCN

7

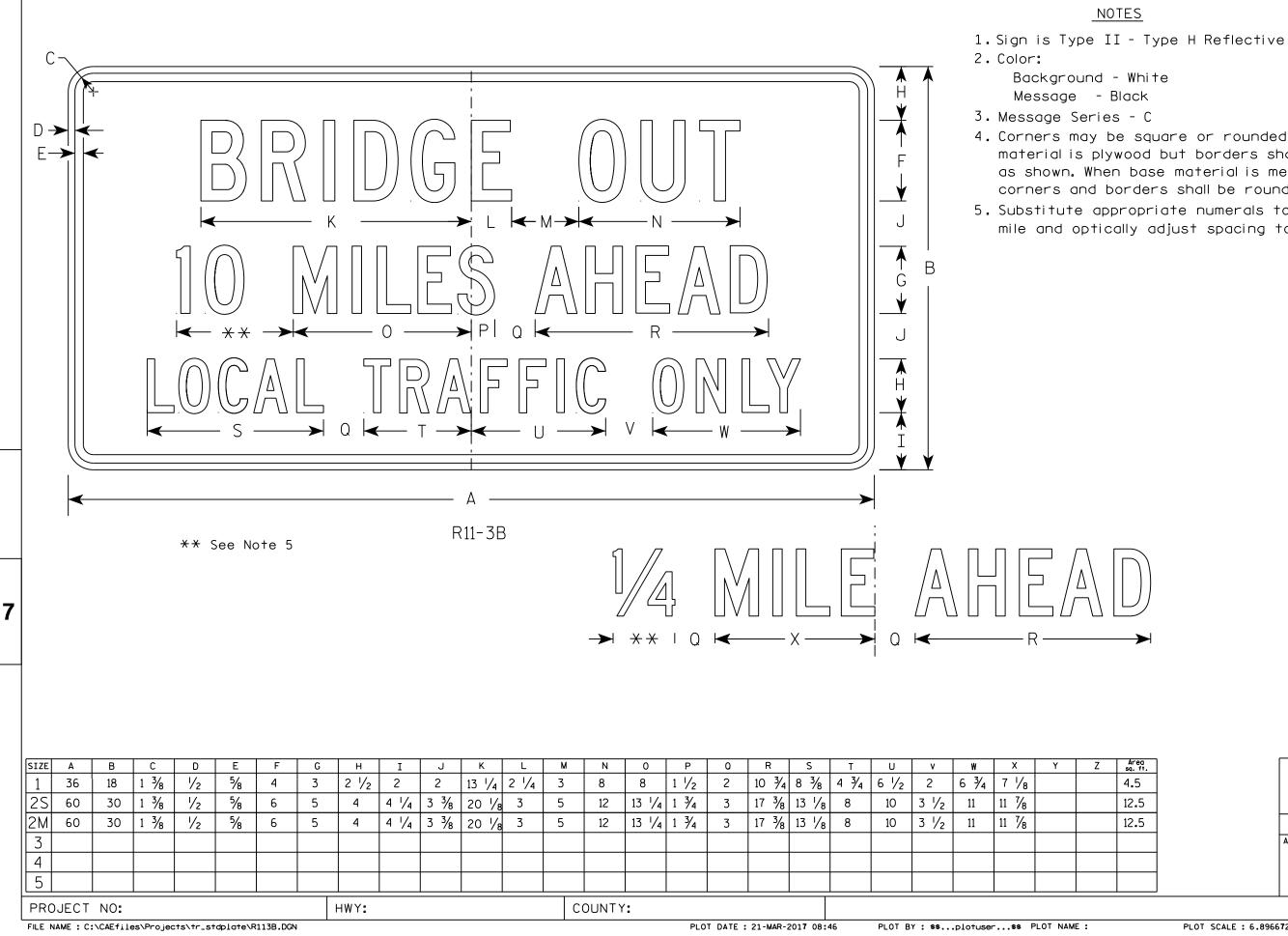
PINT DATE . 01-DEC-2015 17.57 PINT RY . \$\$ 010

PLOT BY . \$\$ DIOTUSER \$\$ PLOT NAME :

NOTES
e II - Type H except as Shown
- See note 4 See note 4
be square or rounded when base ywood but borders shall be rounded en base material is metal, the borders shall be rounded.
2 Background – White Message – Black
5-2 Background - Blue Message - White
-2 Background - Green Message - White
-2 Background - White Message - Green
6-2 Background - Brown Message - White
6-2 Background - Orange - Type F Reflective Message - Black
-2 Background - White Message - Blue
6-2 Background – Brown Message – Yellow

Ā	
Ñ	
¥	
1	

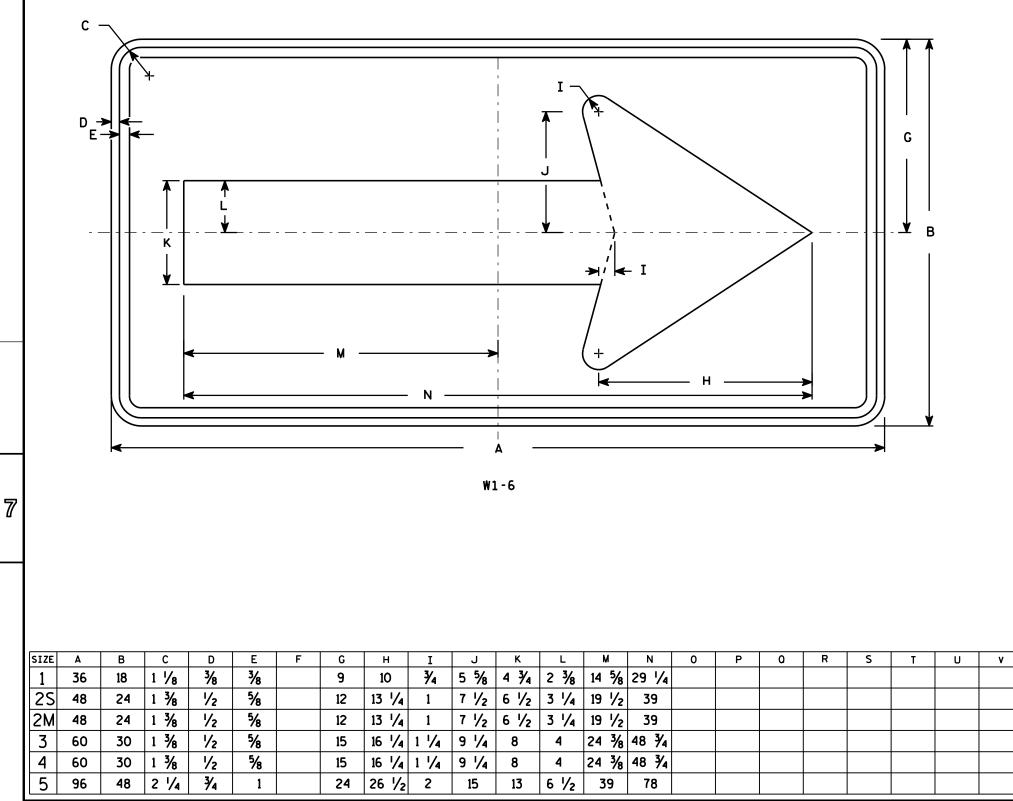
Z	Årea sq. ft.		5-1 8	RD SIGN & M6-2 RIES	N	
	3.06	WISCONSIN	DEPT OF	TRANSPORT	ATION	
	6.25	APPROVED	Matthe	, P P		1
	6.25			Traffic Engineer	ww	ሥ
	6.25	DATE <u>10/15</u>	/15	PLATE NO	16-1.1	5
			SHEET	NO:		Ε



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

$\Big)$
1

.5		S		RD SIGN	
2 <b>.</b> 5			R11-3B		
2.5		WISCONSIN DEPT OF TRANSPORTATION			/
		APPROVED	-	te Traffic Engineer	_
		DATE 3/2	21/17	PLATE NO. R11-3B.	3
SHEET NO: E				Ε	
	PLOT SCALE : 6.8966	572:1.000000	) wisc	DOT/CADDS SHEE	T 42



COUNTY:

HWY:

- 2. Color:

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

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W16.DGN

PROJECT NO:

PLOT DATE : 07-JUN-2010 10:37 PLOT BY : ditjph PLOT NAME :

W

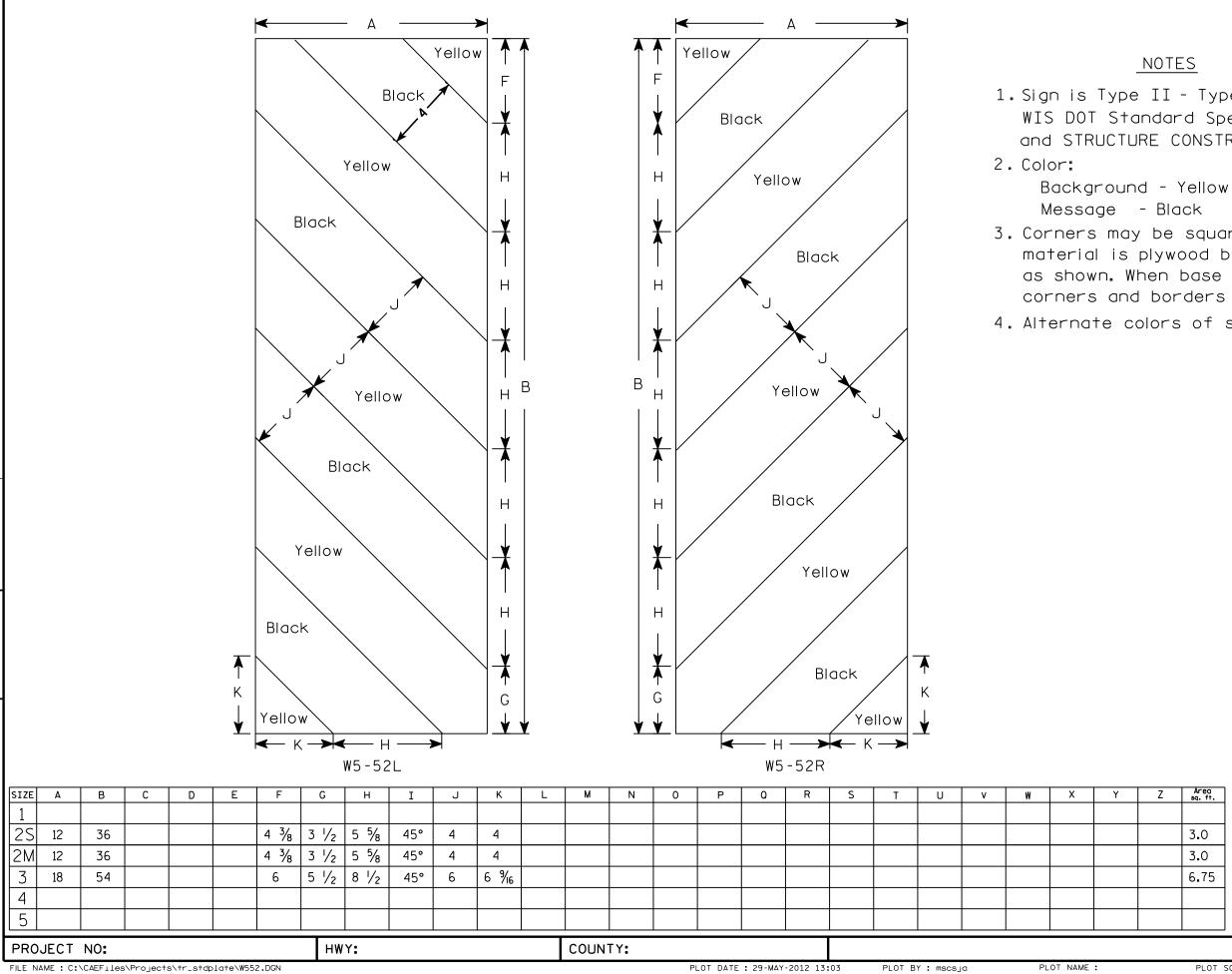
Х

Y

# NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

Z	Areo sq. ft.	STANDARD SIGN
	4.5	STANDARD STON
	8.0	W1-6
	8.0	WISCONSIN DEPT OF TRANSPORTATION
	12.5	APPROVED Matthew & Rauch
	12.5	For State Traffic Engineer
	32.0	DATE <u>6/7/10</u> PLATE NO. <u>W1-6.8</u>
		SHEET NO: 匠



FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W552.DGN

7

PLOT NAME :

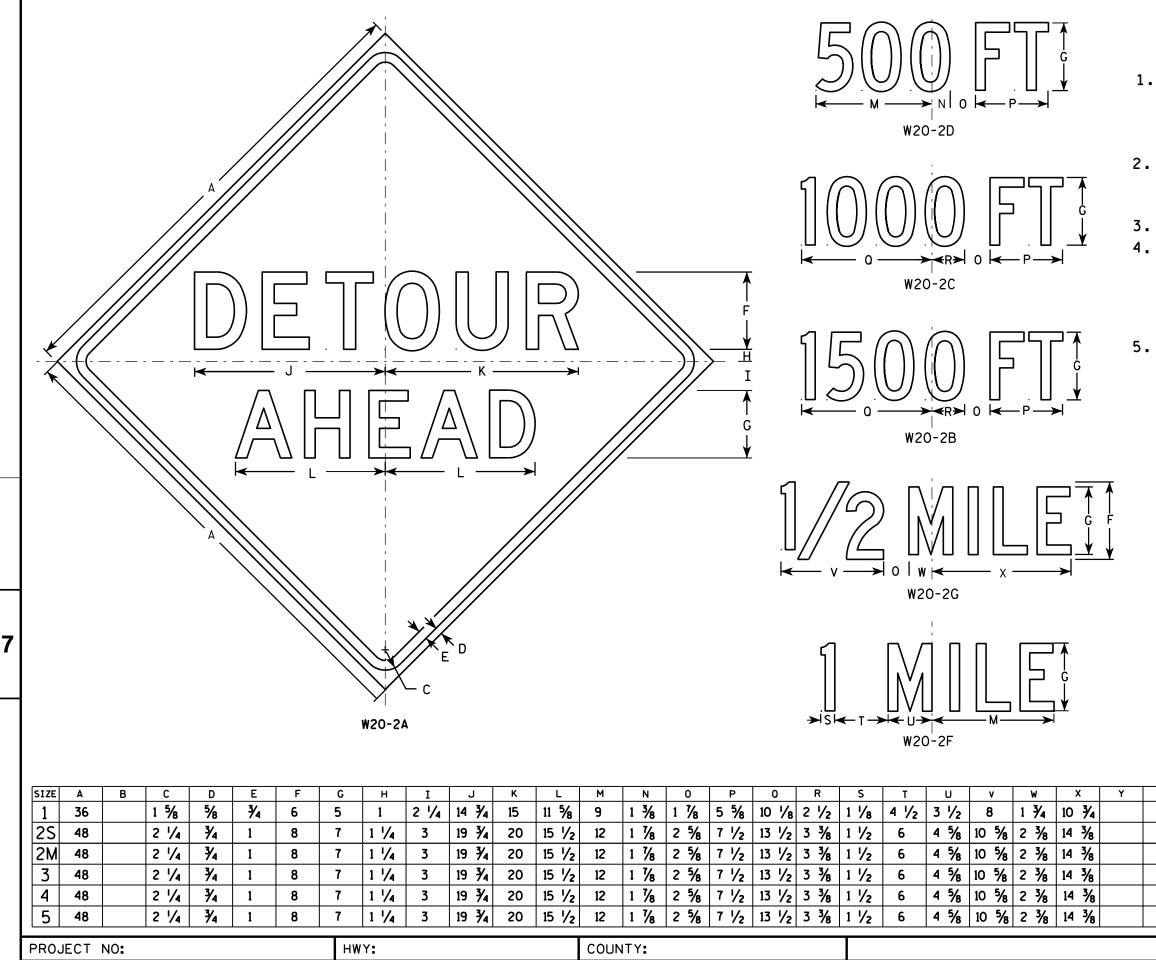
# NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded. 4. Alternate colors of stripes as shown.

Z	Area sq. ft.	STANDARD SIGN			
		W5-52L & W5-52R			
	3.0				
	3.0	WISCONSIN DEPT OF TRANSPORTATION			
	6.75	APPROVED Matthew R Rauch			
		for State Traffic Engineer			
		DATE 5/29/12 PLATE NO. W5-52.9			
SHEET NO: E					
	PLOT SCALE : 4.961899:1.000000 WISDOT/CADDS SHEET 42				

PLOT DATE : 29-MAY-2012 13:03



FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W202.DGN

PLOT DATE : 18-MAR-2011 10:00

PLOT NAME :

PLOT BY : mscj9h

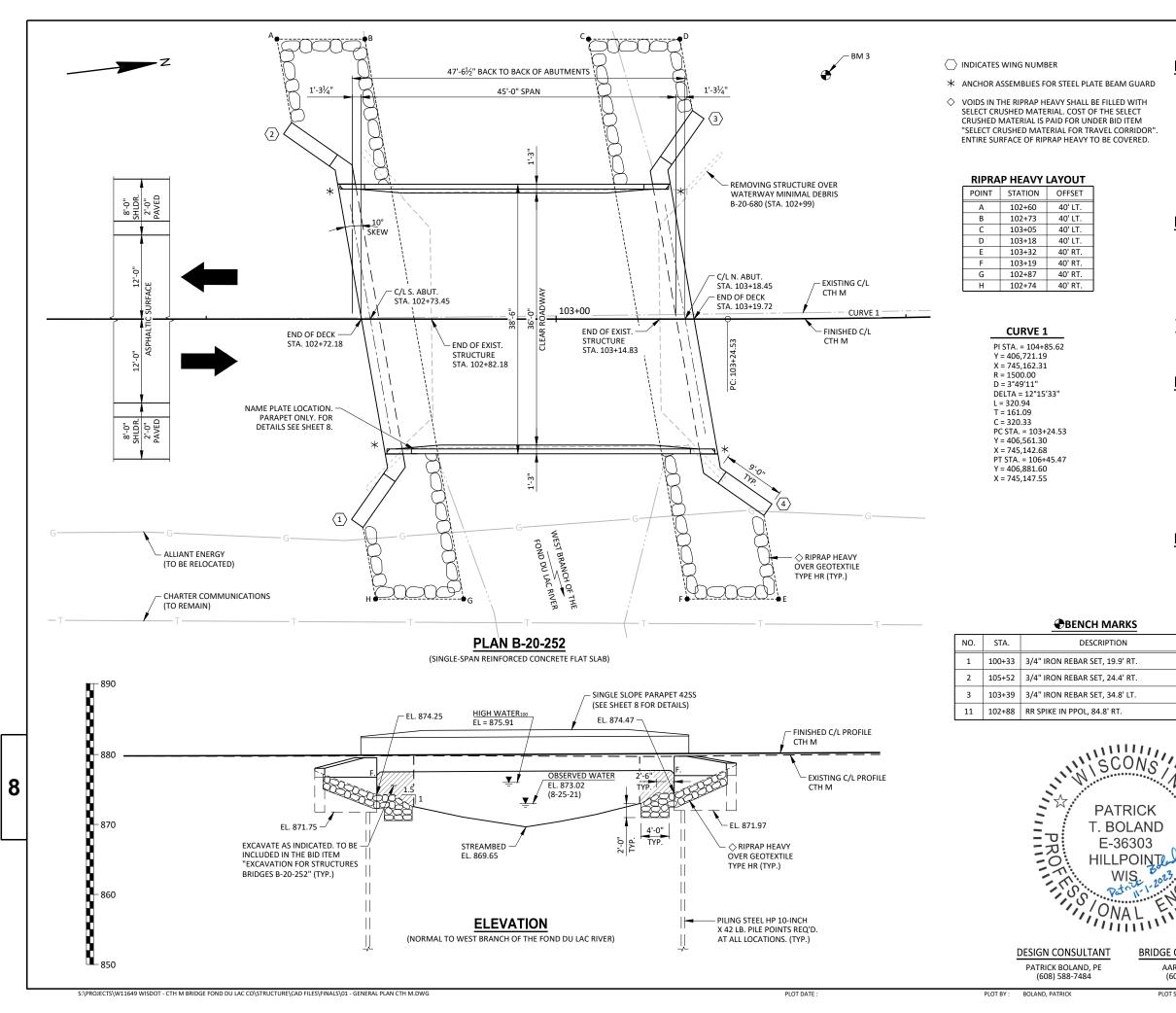
# NOTES

 Sign is Type II - Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
 Color: Background - Orange

Message – Black

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

7	Area	l				
Z	<u>sq. 11.</u> 9.0					
			>	IANDA	RD SIGN	
	16.0		W20	-2A.B.	.C.D.F &	G
	16.0			•		
	16.0			NSIN DEPT	OF TRANSPORTATIO	W
	16.0		APPROVED	Math	er R Ram	L
	10.0					~_
	16.0		DATE 3	/18/11	ote Traffic Engineer PLATE NO. <u>W20-2</u>	.6
						_
				SHEET	NO:	E
	PLO	DT SCALE : 9.93173	9:1.000000	) wisc	OT/CADDS SHEE	T 42



### 6296-02-71

# **DESIGN DATA**

LIVE LOAD:	
DESIGN LOADING	HL-93
INVENTORY RATING FACTOR	RF=1.25
OPERATING RATING FACTOR	
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV)	250 KIPS
STRUCTURE IS DESIGNED FOR A FUTURE WEARING SUR	FACE OF 20 P.S.F.
MATERIAL PROPERTIES:	
CONCRETE MASONRY, SUPERSTRUCTURE	f'c = 4,000 P.S.I
ALL OTHER	f'c = 3,500 P.S.I
HIGH-STRENGTH BAR STEEL	
REINFORCEMENT, GRADE 60	fy = 60,000 P.S.
OUNDATION DATA	

ABUTMENTS TO BE SUPPORTED ON PILING STEEL HP 10-INCH X 42 LB DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 140 TONS\*\* PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATE 35 FT PILE LENGTHS AT BOTH ABUTMENTS. PILE POINTS REQ'D. AT ALL LOCATIONS.

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

# **TRAFFIC DATA**

A.D.T. (2024)	1,200
A.D.T. (2044)	1,775
DESIGN SPEED	55 M.P.H.

# **HYDRAULIC DATA**

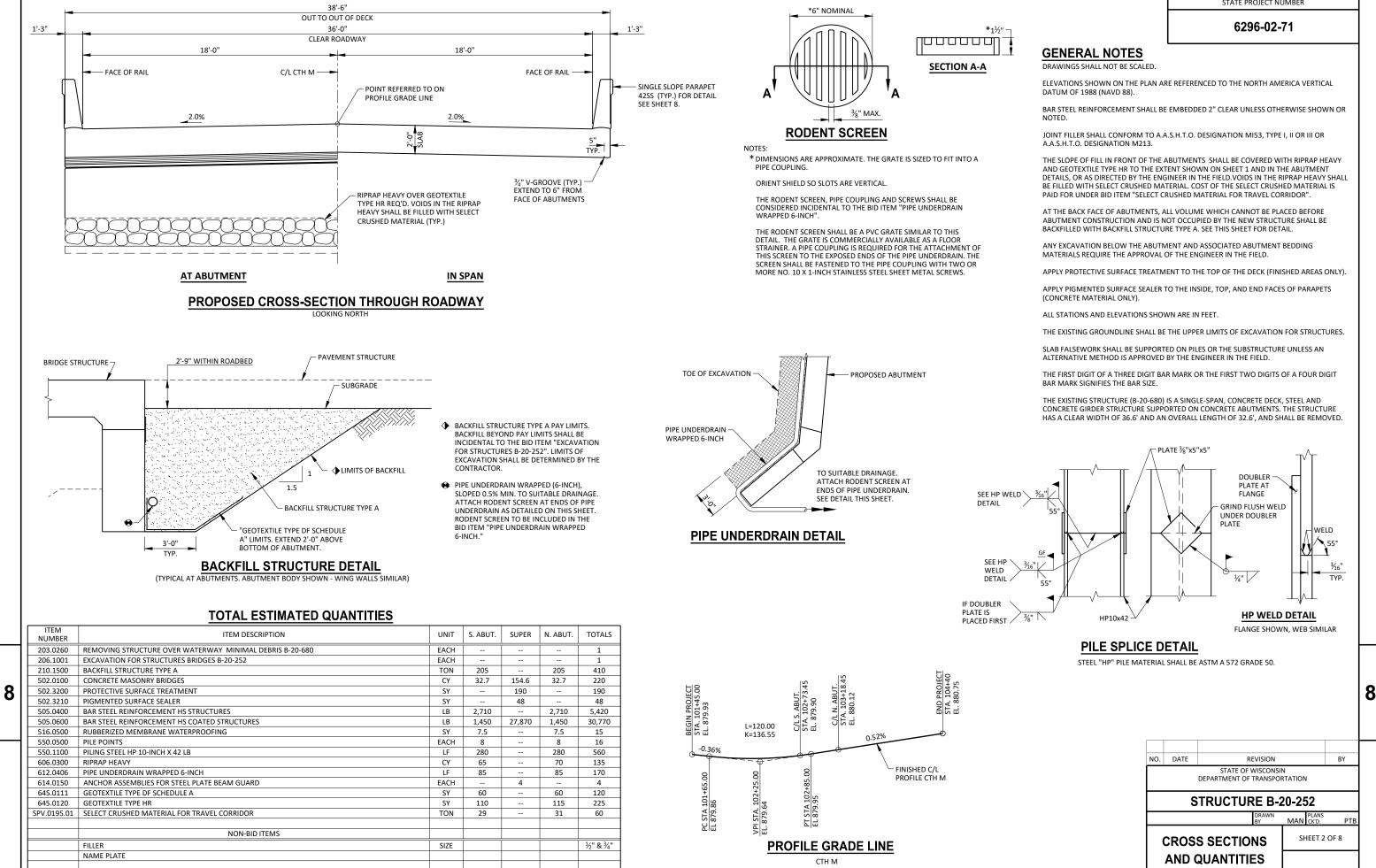
100 YEAR FREQUENCY	
DRAINAGE AREA	11.9 SQ. MI.
Q100 TOTAL	710 C.F.S.
THROUGH STRUCTURE	710 C.F.S.
OVERTOPPING ROADWAY	N/A
VELOCITY - THROUGH STRUCTURE	4.68 F.P.S.
WATERWAY AREA - THROUGH STRUCTURE	152.0 SQ. FT.
HIGH WATER100 ELEVATION	875.91
SCOUR CRITICAL CODE	8
EROSION CONTROL	
Q2	185 C.F.S.
VELOCITY2	2.1 F.P.S.
HIGH WATER2 ELEVATION	873.88

# LIST OF DRAWINGS

GENERAL PLAN	1.
CROSS SECTION AND QUANTITIES	
SUBSURFACE EXPLORATION	3.
ABUTMENTS	4.
ABUTMENT DETAILS	5.
SUPERSTRUCTURE	6.
SUPERSTRUCTURE DETAILS	7.
SINGLE SLOPE PARAPET 42SS	8.

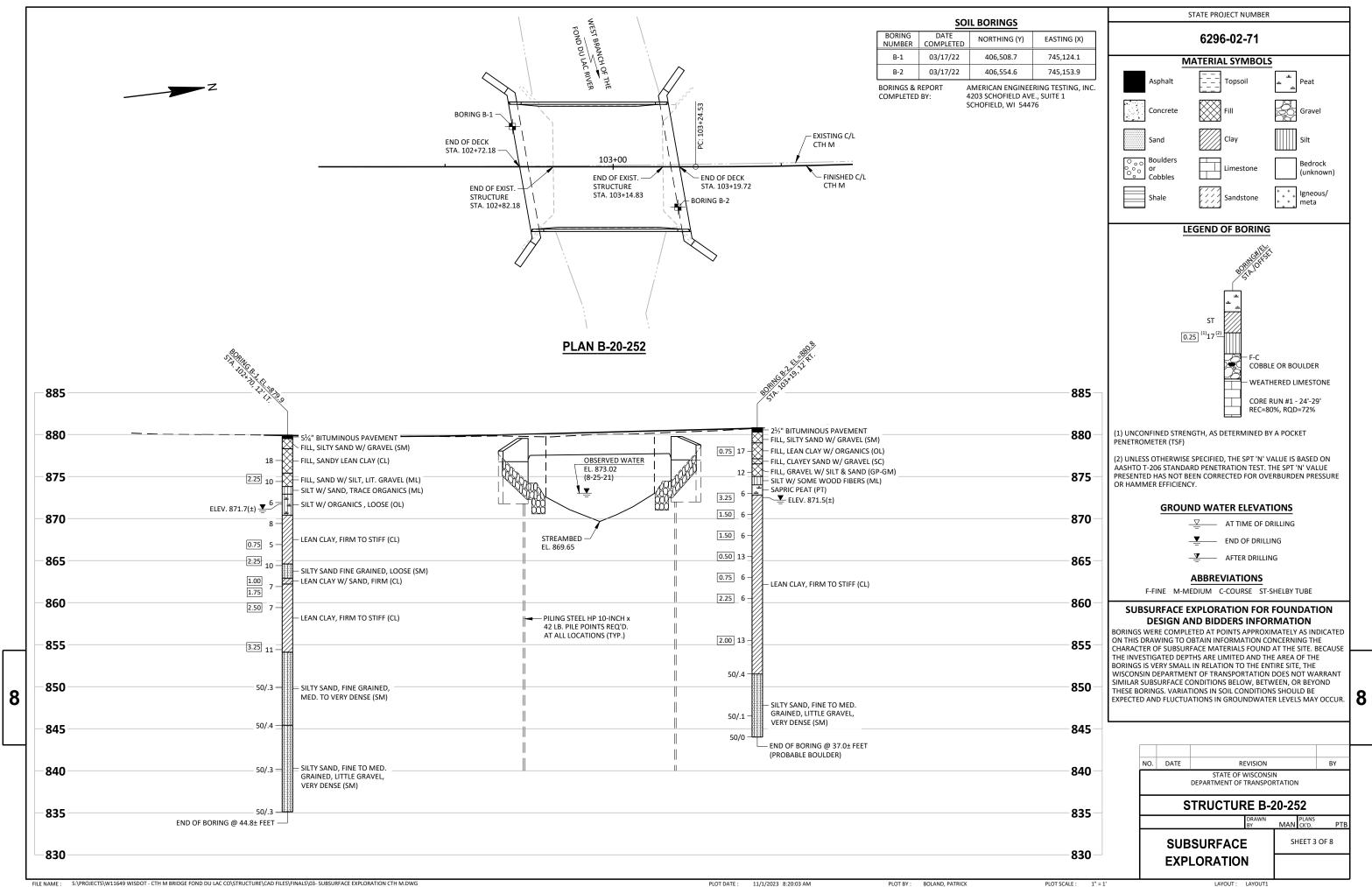
N	ELEV.
' RT.	879.46
' RT.	880.39
' LT.	876.14
	874.26

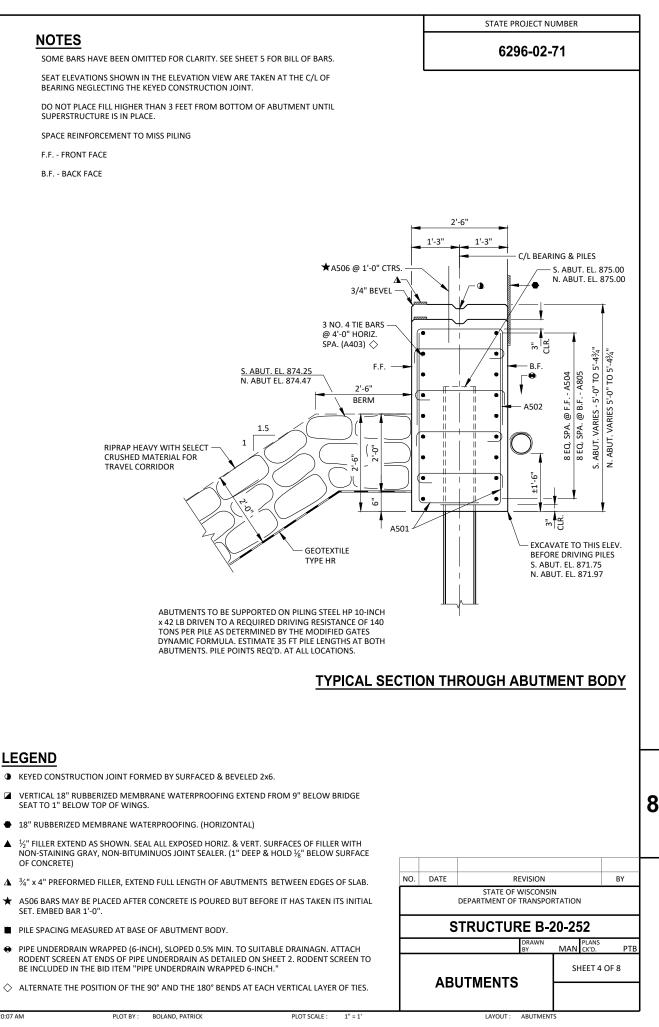
	NO.	DATE		REVISION		BY	
NSIN	1	JE	WELL tee orginaere, in - Architecto - Gurrago	56 SPRI	0 SUNRISE NG GREEN, ICE: (608) 5 w.jewellass	DRIVE WI 53588 588-7484	8
CK	AC	CEPTEDC	STATE OF DEPARTMENT OF HIEF STRUCTURES D	<u>H</u> s	pr 11/	14/23 DATE	
NINTER	STRUCTURE B-20-252						
1. 2023	C	TH M OVE	R WEST BRANC	H OF THE I	FOND DU LA	C RIVER	
ENG .	COUN		FOND DU LAC	TOWN/ <del>CIT</del>		OSENDALE	
LETIN		-	ITO LRFD BRIDGE				
111,	DESIG BY	MAN	design ck'd. PTI	DRAWN BY	MAN CK'D.		
BRIDGE OFFICE CONTACT		GENE	ERAL PL	N NI	SHEET	1 OF 8	
AARON BONK, PE (608) 261-0261		GENE		111			
PLOT SCALE : 1" = 1'			LAYOUT :	LAYOUT1			

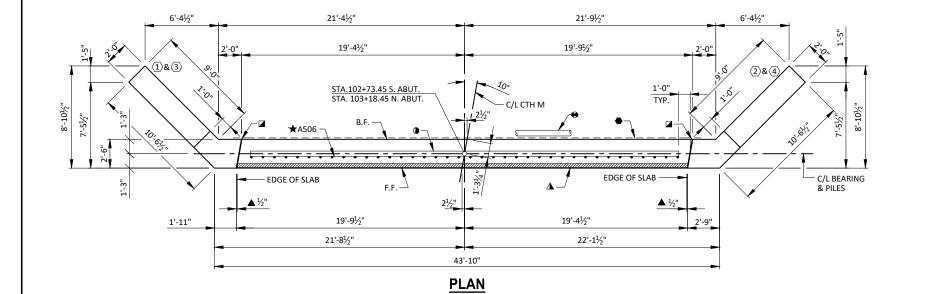


PLOT BY : BOLAND, PATRIC

LAYOUT LAYOUT1







**ELEVATION** 

(SOUTH ABUTMENT LOOKING SOUTH) (NORTH ABUTMENT LOOKING NORTH) S. ABUT. EL. 876.75 N. ABUT. EL. 877.01

Ш

FRONT FACE BAR STEEL REINF.

- A501

A502

7\_ 닜

S. ABUT. EL. 877.15 N. ABUT. EL. 877.37

.

•

Δ504

★A506

S. ABUT. EL. 879.50

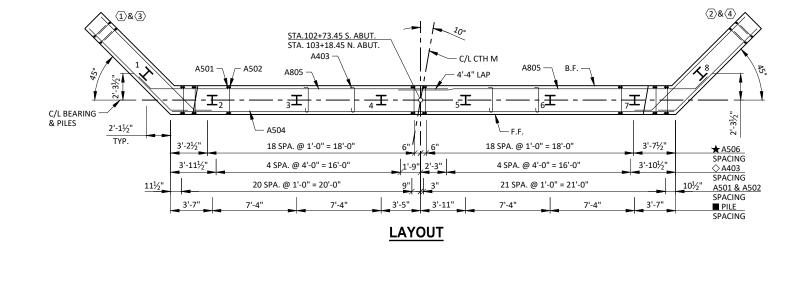
N. ABUT. EL. 879.76

2&4

WING 2 WING 4 WING 2 WING 4

S. ABUT. EL. 871.75

N. ABUT. EL. 871.97



## LEGEND

- SEAT TO 1" BELOW TOP OF WINGS.
- 18" RUBBERIZED MEMBRANE WATERPROOFING. (HORIZONTAL)
- OF CONCRETE)
- SET. EMBED BAR 1'-0".
- PILE SPACING MEASURED AT BASE OF ABUTMENT BODY.

<u>S. ABUT EL. 879.53</u> N. ABUT EL. 879.72

(1)&(3) 1

WING 1 WING 3 WING 1 WING 3

8

S. ABUT EL. 876.78

N. ABUT EL. 876.97

4805

BACK FACE BAR STEEL REINF.

111

2丄닜

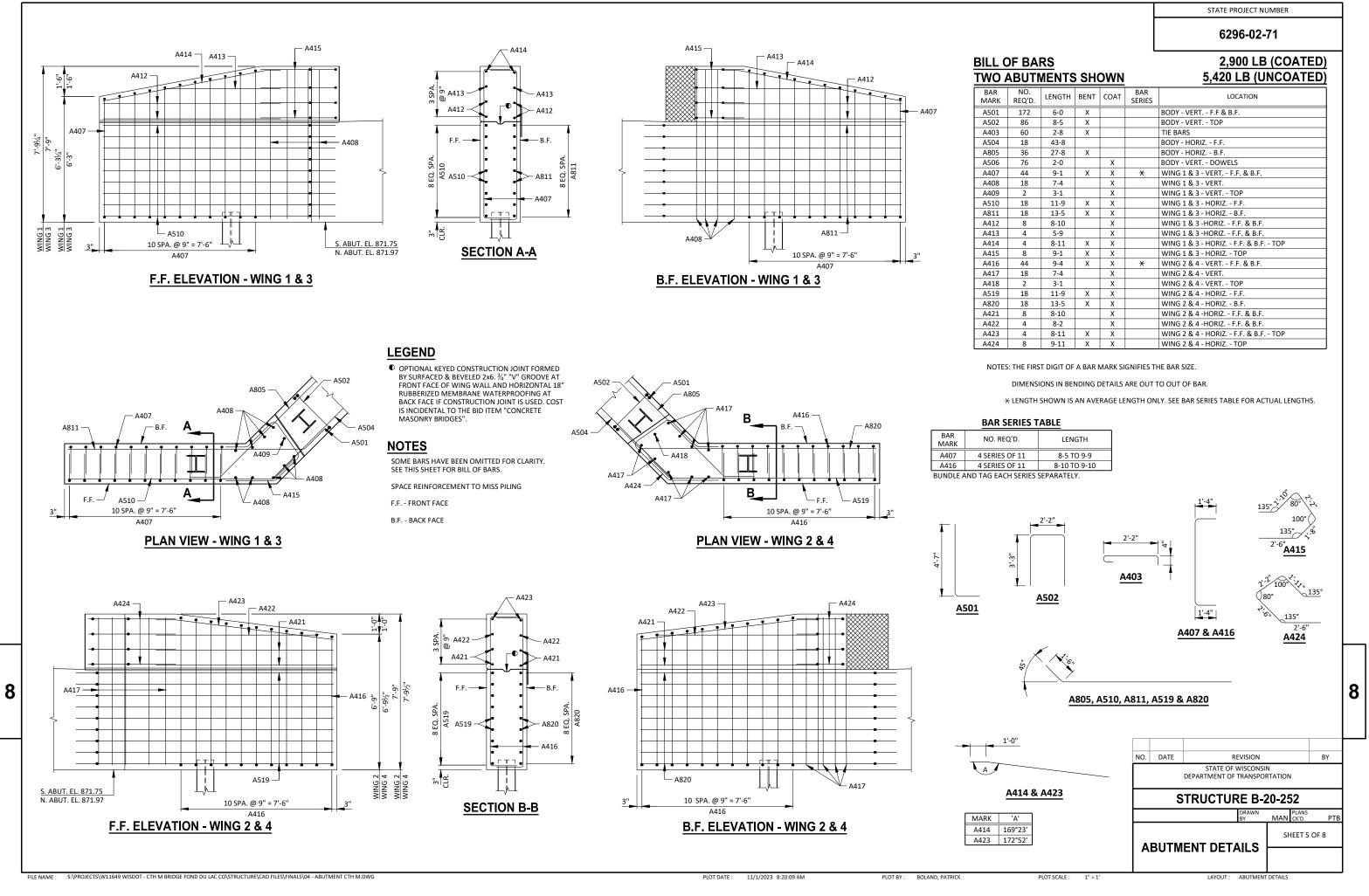
A501

A502

ЯΉ

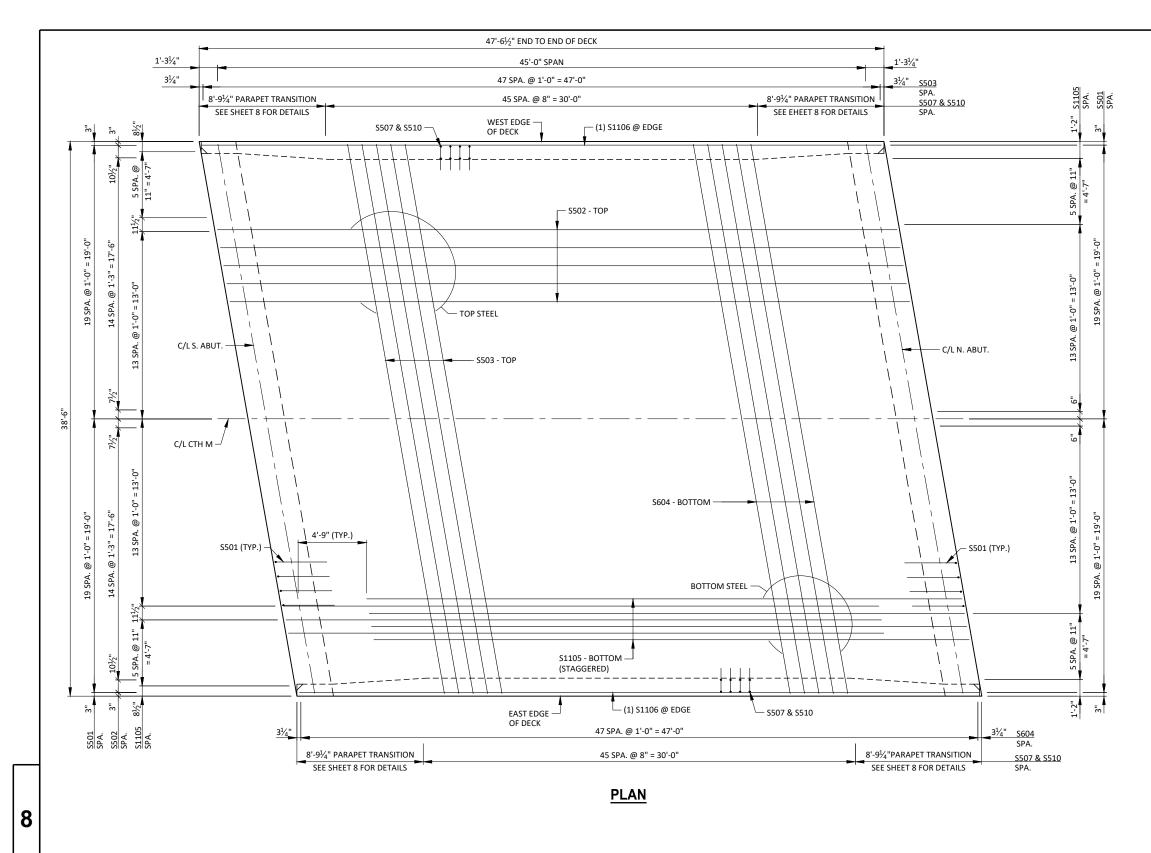
◇ A403 –

(TYP.)



	NO. REQ'D.	LENGTH	BENT	COAT	BAR SERIES	LOCATION
	172	6-0	Х			BODY - VERT F.F & B.F.
	86	8-5	Х			BODY - VERT TOP
	60	2-8	Х			TIE BARS
	18	43-8				BODY - HORIZ F.F.
	36	27-8	Х			BODY - HORIZ B.F.
	76	2-0		Х		BODY - VERT DOWELS
	44	9-1	Х	Х	*	WING 1 & 3 - VERT F.F. & B.F.
	18	7-4		Х		WING 1 & 3 - VERT.
	2	3-1		Х		WING 1 & 3 - VERT TOP
	18	11-9	Х	Х		WING 1 & 3 - HORIZ F.F.
	18	13-5	Х	Х		WING 1 & 3 - HORIZ B.F.
	8	8-10		Х		WING 1 & 3 -HORIZ F.F. & B.F.
	4	5-9		Х		WING 1 & 3 -HORIZ F.F. & B.F.
	4	8-11	Х	Х		WING 1 & 3 - HORIZ F.F. & B.F TOP
	8	9-1	Х	Х		WING 1 & 3 - HORIZ TOP
	44	9-4	Х	Х	×	WING 2 & 4 - VERT F.F. & B.F.
	18	7-4		Х		WING 2 & 4 - VERT.
	2	3-1		Х		WING 2 & 4 - VERT TOP
	18	11-9	Х	Х		WING 2 & 4 - HORIZ F.F.
	18	13-5	Х	Х		WING 2 & 4 - HORIZ B.F.
	8	8-10		Х		WING 2 & 4 -HORIZ F.F. & B.F.
1	4	8-2		Х		WING 2 & 4 -HORIZ F.F. & B.F.
1	4	8-11	Х	Х		WING 2 & 4 - HORIZ F.F. & B.F TOP
	8	9-11	Х	Х		WING 2 & 4 - HORIZ TOP

Q'D.	LENGTH					
OF 11	8-5 TO 9-9					
OF 11	8-10 TO 9-10					



# TOP OF DECK ELEVATIONS

	C/L S. ABUT.	0.10 PNT.	0.20 PNT.	0.30 PNT.	0.40 PNT.	0.50 PNT.	0.60 PNT.	0.70 PNT.	0.80 PNT.	0.90 PNT.	C/L N. ABUT.
W. EDGE	879.50	879.52	879.54	879.56	879.58	879.60	879.63	879.65	879.67	879.70	879.72
C/L	879.90	879.92	879.94	879.96	879.98	880.01	880.03	880.05	880.08	880.10	880.12
E. EDGE	879.53	879.55	879.57	879.59	879.62	879.64	879.66	879.69	879.71	879.73	879.76

#### SURVEY TOP OF DECK ELEVATIONS

	S. ABUT.	0.50 PT.	N. ABUT.
WEST FLOW LINE			
CENTER LINE			
EAST FLOW LINE			

PRIOR TO RELEASING SLAB FASLEWORK, TAKE TOP OF DECK ELEVATIONS AT THE C/L OF THE ABUTMENTS AND AT 0.50 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG THE FLOW LINES AND CENTER LINE. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

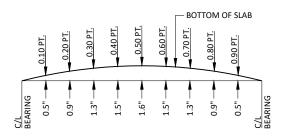
#### 6296-02-71

#### NOTES

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

PLACE TRANSVERSE BARS PARALLEL TO THE CENTERLINE OF SUBSTRUCTURE UNITS.

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



### **CAMBER DIAGRAM**

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS. CAMBER SPAN AS SHOWN TO PROVIDE FOR THEORETICAL DEADLOAD DEFLECTION AND FUTURE PLASTIC FLOW. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

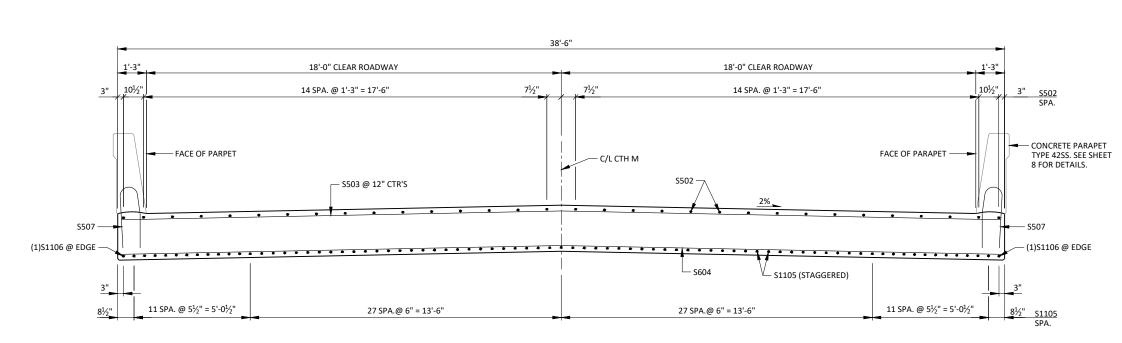
TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB OR CENTER LINE FOLLOW THIS PROCEDURE: TOP OF SLAB ELEVATION AT FINAL GRADE -SLAB THICKNESS +CAMBER LEOPEN SETULEMENT /DEELECTION DUE TO DIACEMENT

+FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (COMPUTED BY CONTRACTOR) =TOP OF SLAB FALSEWORK ELEVATION.

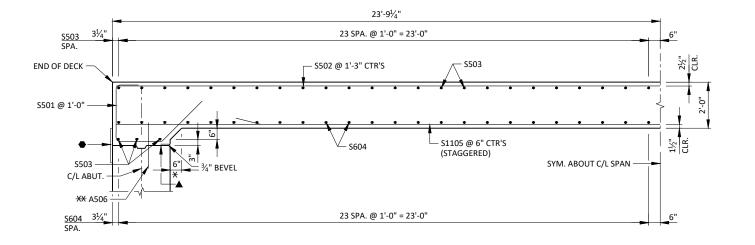
NO. DATE REVISION BY
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURE B-20-252
DRAWN MAN CK'D. PTB
BY MAN CK'D. PTB
SUPERSTRUCTURE

8

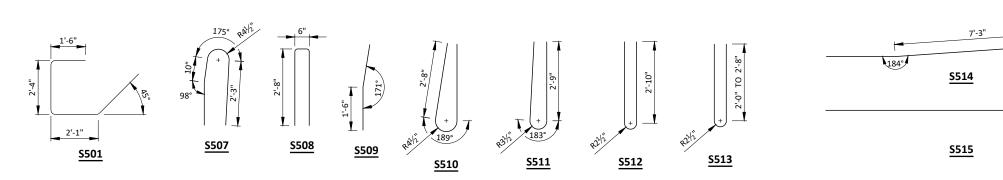
LAYOUT : SUPERSTRUCTURE



## **CROSS SECTION THROUGH ROADWAY**



## PARTIAL LONGITUDINAL SECTION THROUGH ROADWAY



8

# LEGEND

- ▲ <sup>3</sup>⁄<sub>4</sub>" x 4" PREFORMED FILLER, EXTEND FULL LENGTH OF
- \* DIMENSION IS NORMAL TO THE C/L OF SUBSTRUCTURE UNITS.
- XX SEE SHEET 4 FOR PLACEMENT OF A506 BARS.

ABUTMENTS BETWEEN EDGES OF SLAB.

POURED

6296-02-71

## **BILL OF BARS** SUPERSTRUCTURE

## 27,870 LB (COATED)

BAR MARK	NO. REQ'D.	LENGTH	BENT	COAT	BAR SERIES	LOCATION
S501	78	8-2	Х	Х		ENDS OF DECK
S502	32	47-2		Х		SLAB - TOP - LONGIT.
S503	54	38-9		Х		SLAB - TOP - TRANS. & AT ABUT.
S604	48	38-9		Х		SLAB - BOTTOM - TRANS.
S1105	77	41-5		Х		SLAB - BOTTOM - LONGIT.
S1106	2	47-2		Х		SLAB - BOTTOM - LONGIT EDGES
S507	92	5-10	Х	Х		PARAPET - VERT.
S508	68	5-7	Х	Х		PARAPET - VERT.
S509	48	3-0	Х	Х		PARAPET - VERT.
S510	92	6-8	Х	Х		PARAPET - VERT.
S511	24	6-6	Х	Х		PARAPET - VERT.
S512	20	6-5	Х	Х		PARAPET - VERT.
S513	24	5-5	Х	Х	×	PARAPET - VERT.
S514	4	11-9	Х	Х		PARAPET - HORIZ.
S515	8	11-11	Х	Х		PARAPET - HORIZ.
S516	12	29-3		Х		PARAPET - HORIZ.
S517	20	25-0		Х		PARAPET - HORIZ.

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

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

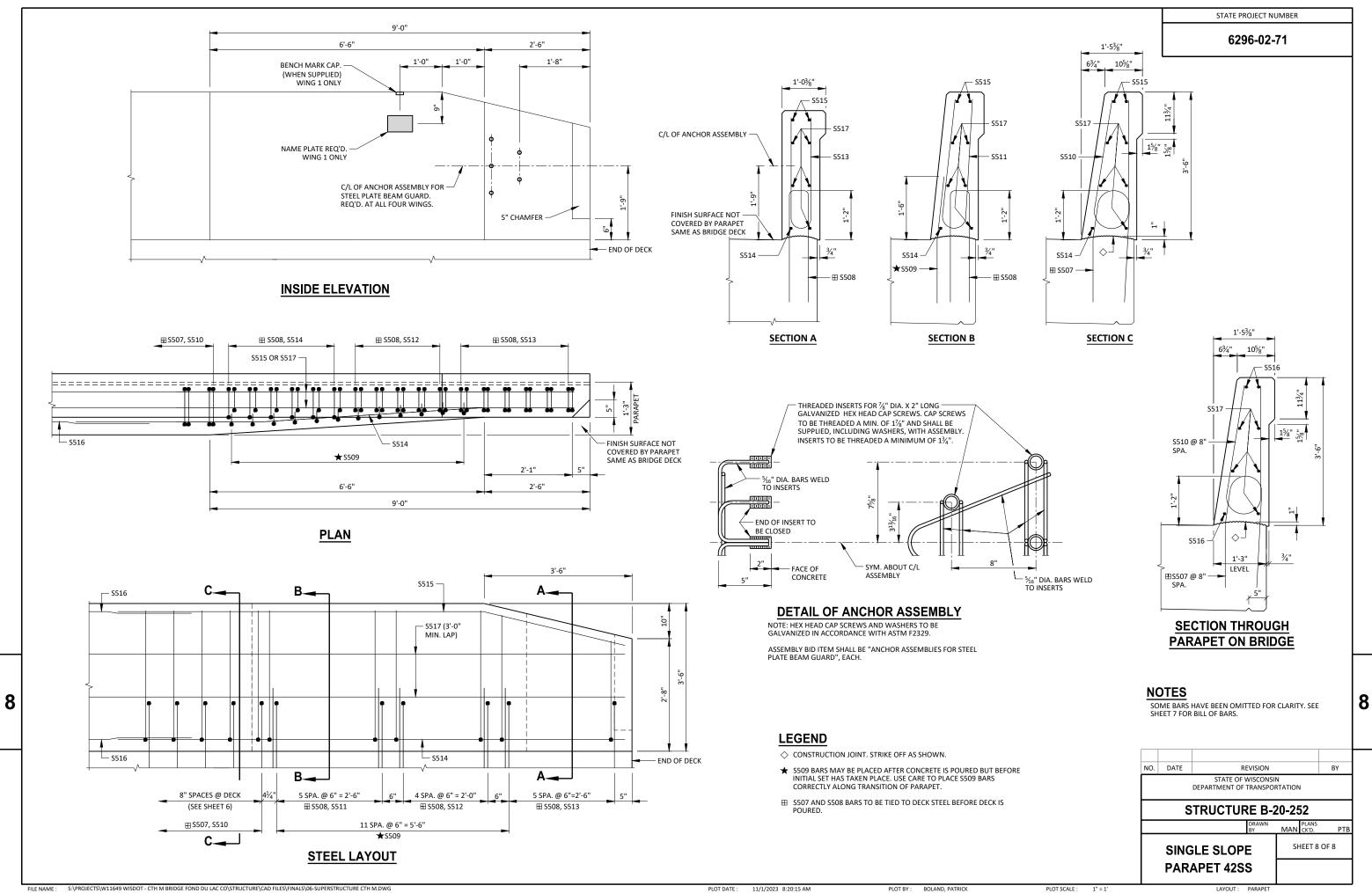
\* LENGTH SHOWN IS AN AVERAGE LENGTH ONLY. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

#### BAR SERIES TABLE

● 18" RUBBERIZED MEMBRANE WATERPROOFING. (HORIZONTAL)

BAR MARK NO. REQ'D. LENGTH S513 4 SERIES OF 6 6-1 TO 4-9 BUNDLE AND TAG EACH SERIES SEPARATELY

<b>1'-6</b> "							
176°	NO.	DATE	F	REVISION			BY
			STATE OF DEPARTMENT OF	WISCONSI TRANSPO			
3'-3"	20-25						
				DRAWN BY	MAN	PLANS CK'D.	РТВ
	s	UPER	STRUCT	JRE	SH	EET 7 OF	8
		D	ETAILS				
PLOT SCALE : 1" = 1'	-		LAYOUT :	SUPERSTRU	JCTURE DE	TAILS	



LAYOUT :

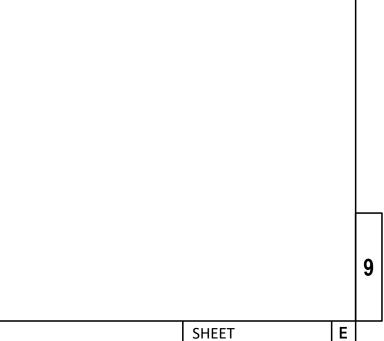
	AREA (S	F)	INCREME	NTAL VOL (	CY)	CUMMULATIVE \	OLUME (	CY)	
					FILL	CUT		FILL	MASS
			CUT	FILL	(25%)	1.00		(25%)	ORDINATE
STATION	CUT	FILL	NOTE 1	NOTE 2	NOTE 3	NOTE 1	FILL	NOTE 3	NOTE 4
101+45	0	0	0	0	0	0	0	0	0
101+50	59	1	5	1	1	5	1	1	4
102+00	59	19	110	19	24	115	20	25	90
102+50	125	40	171	55	69	286	75	94	192
102+72	125	40	102	32	40	388	107	134	254
102+72	0	0	0	0	0	388	107	134	254
103+20	0	0	0	0	0	388	107	134	254
103+20	118	10	0		0	388	107	134	254
103+50	118	10	131	11	14	519	118	148	372
104+00	127	15	227	23	29	746	141	176	570
104+40	0	0	94	11	14	840	152	190	650

COLUMN TOTALS = 840 152 190 650

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
3 - FILL 25%	(UNEXPANDED FILL)*1.25
4 - MASS ORDINATE	CUT + ROCK (10%) +REDUCED MARSH (60%) - FILL (25%)

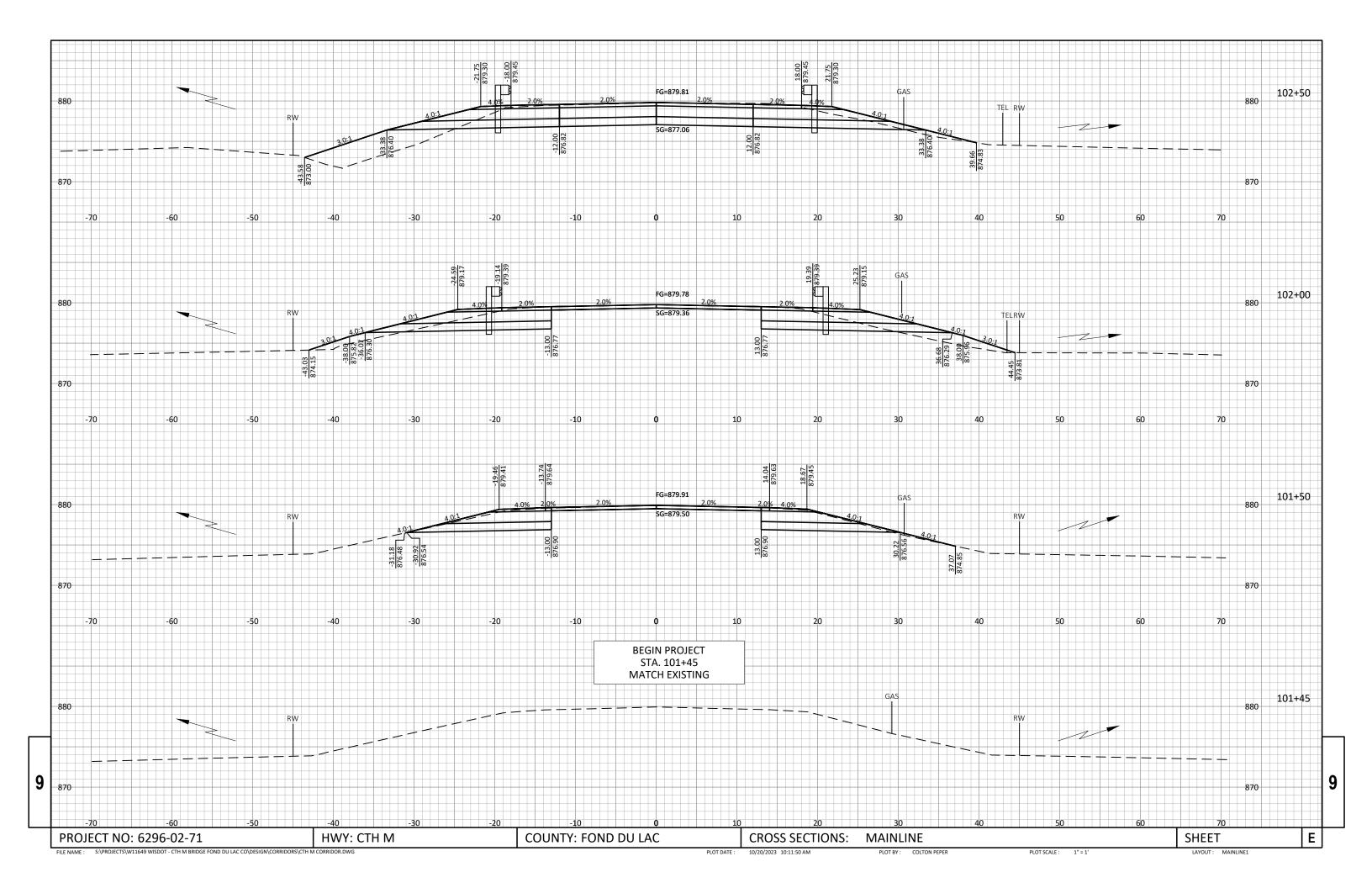
P	PROJECT NO: 6296-02-71	HWY: CTH M	COUNTY: FOND DU LAC		EARTHWORK		
FILE	E NAME : S:\PROJECTS\W11649 WISDOT - CTH M BRIDGE FOND DU LAC CO\SHEETSPLAN\DETAILS\6296	50200_EARTHWORK TABLE.DWG	PLOT DAT	ATE :	10/20/2023 10:11:48 AM	PLOT BY :	COLTON PEPER

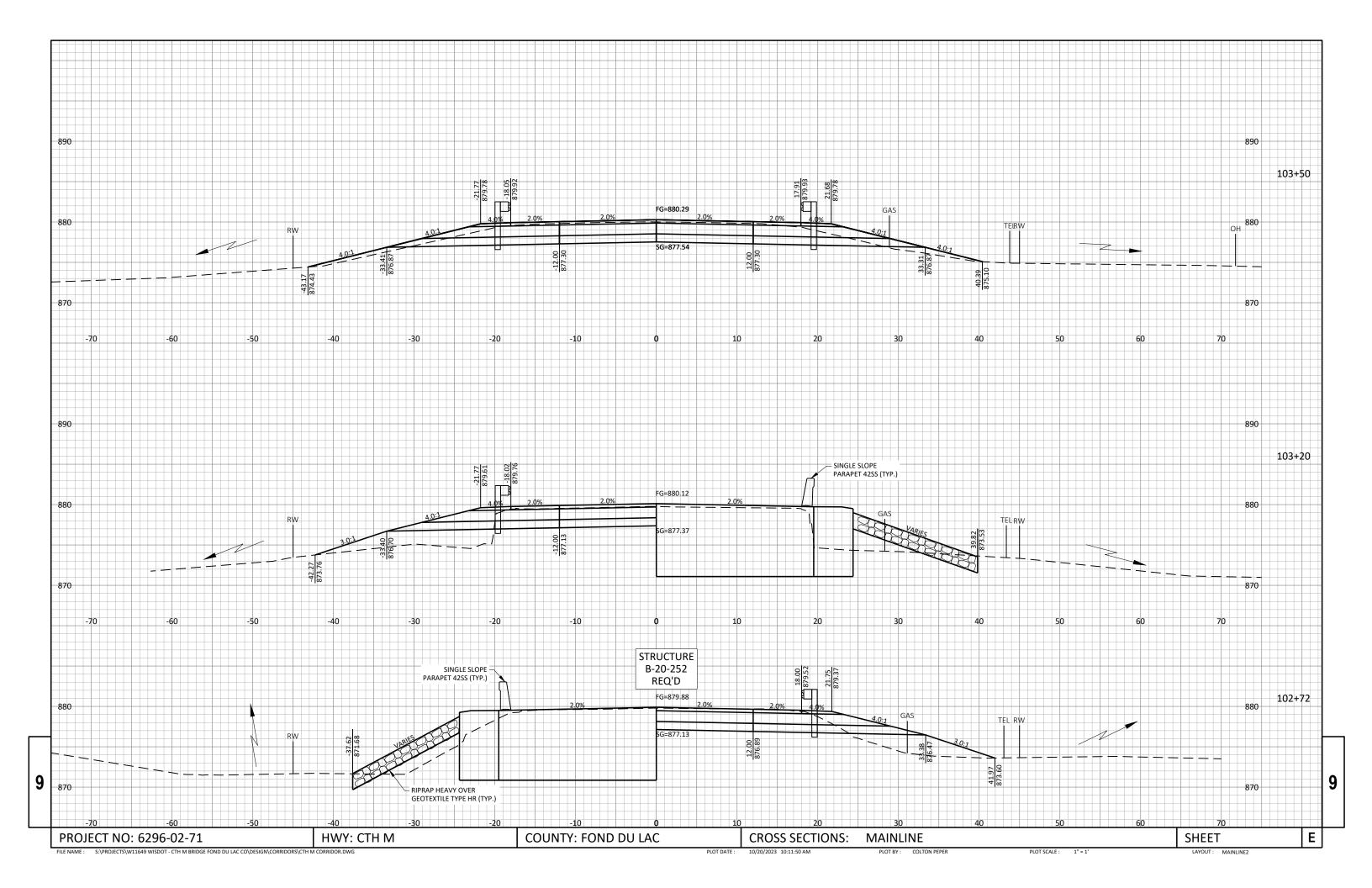
9

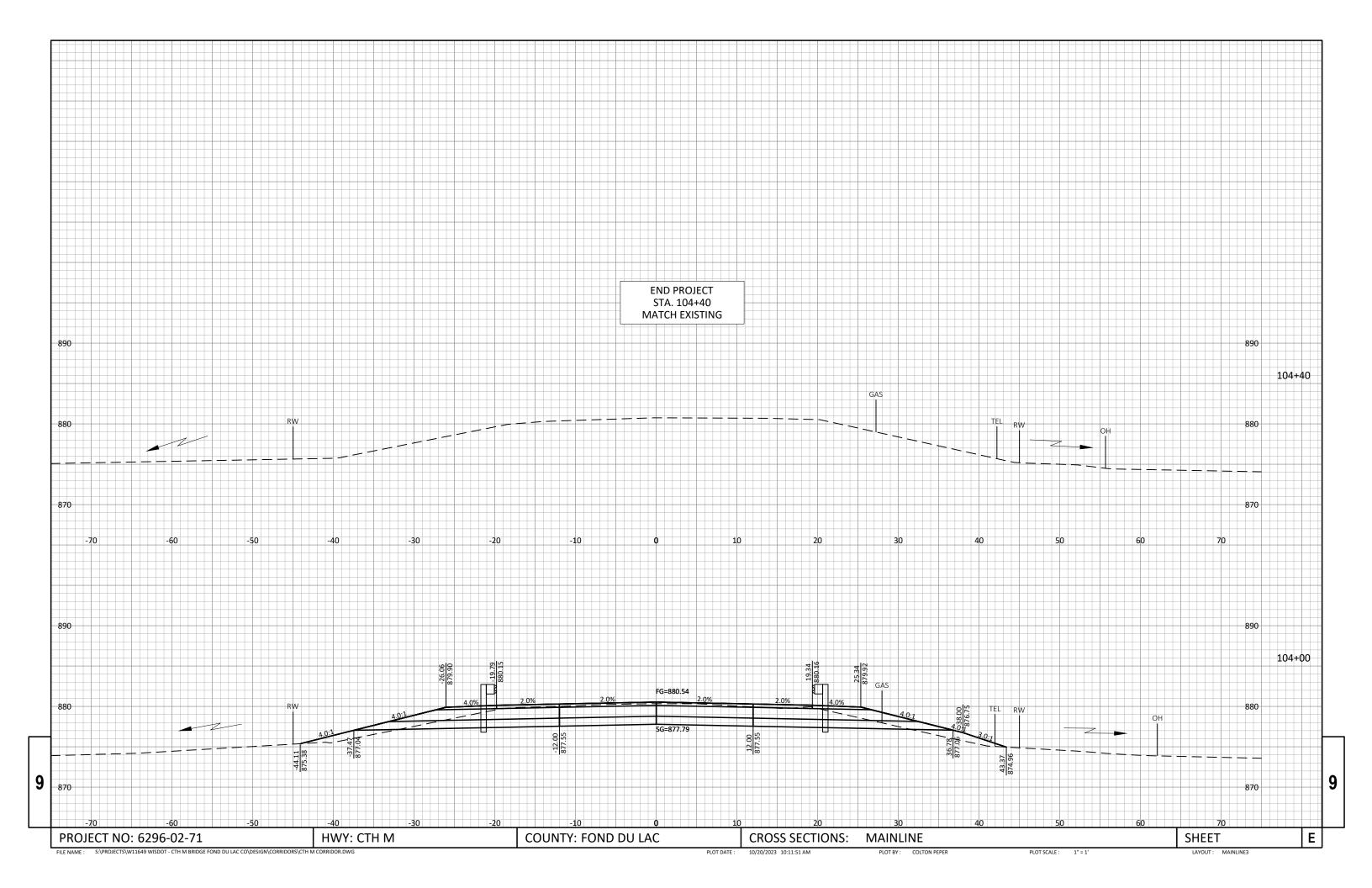


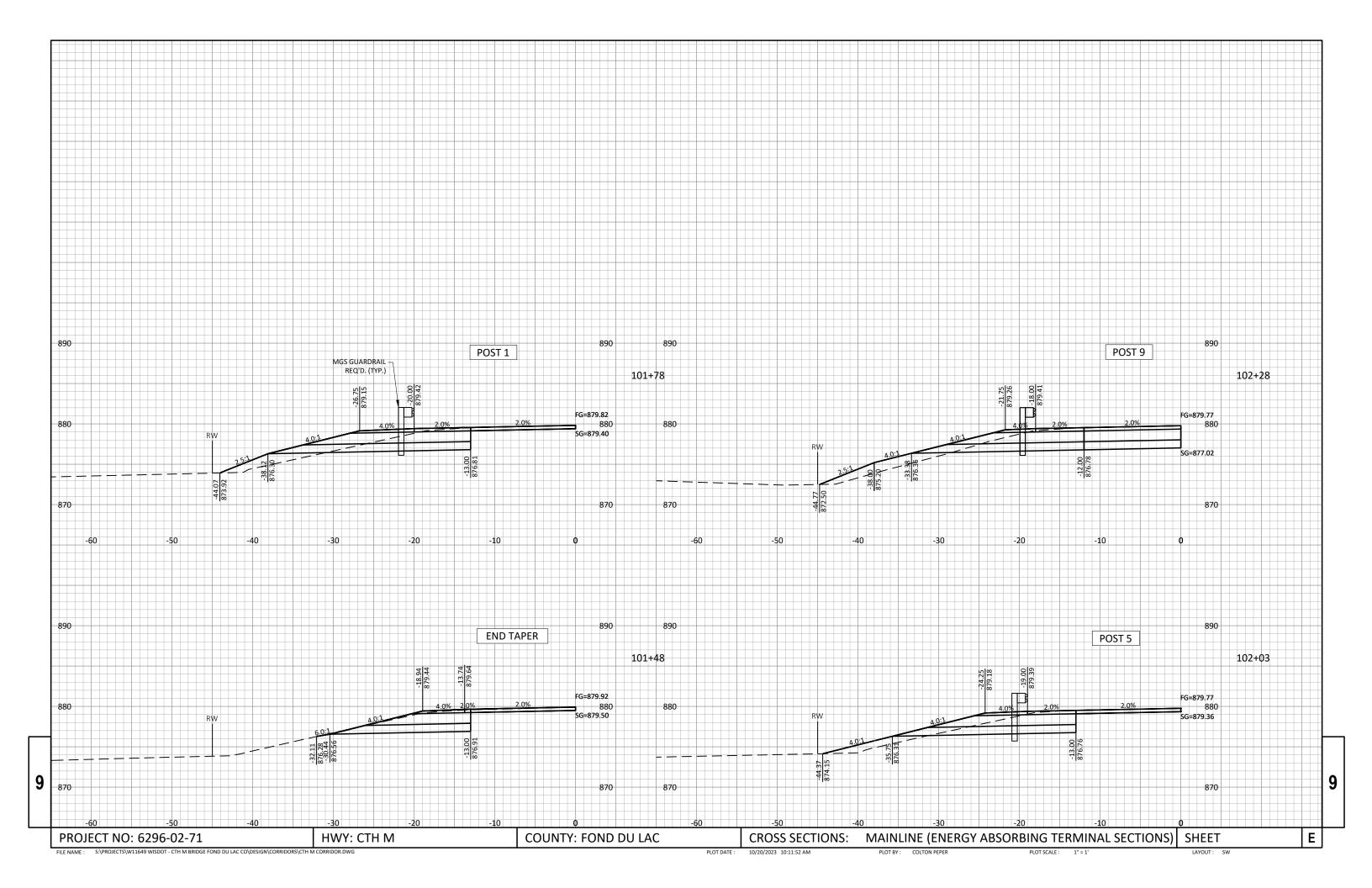
PLOT SCALE	:	1" = 1'

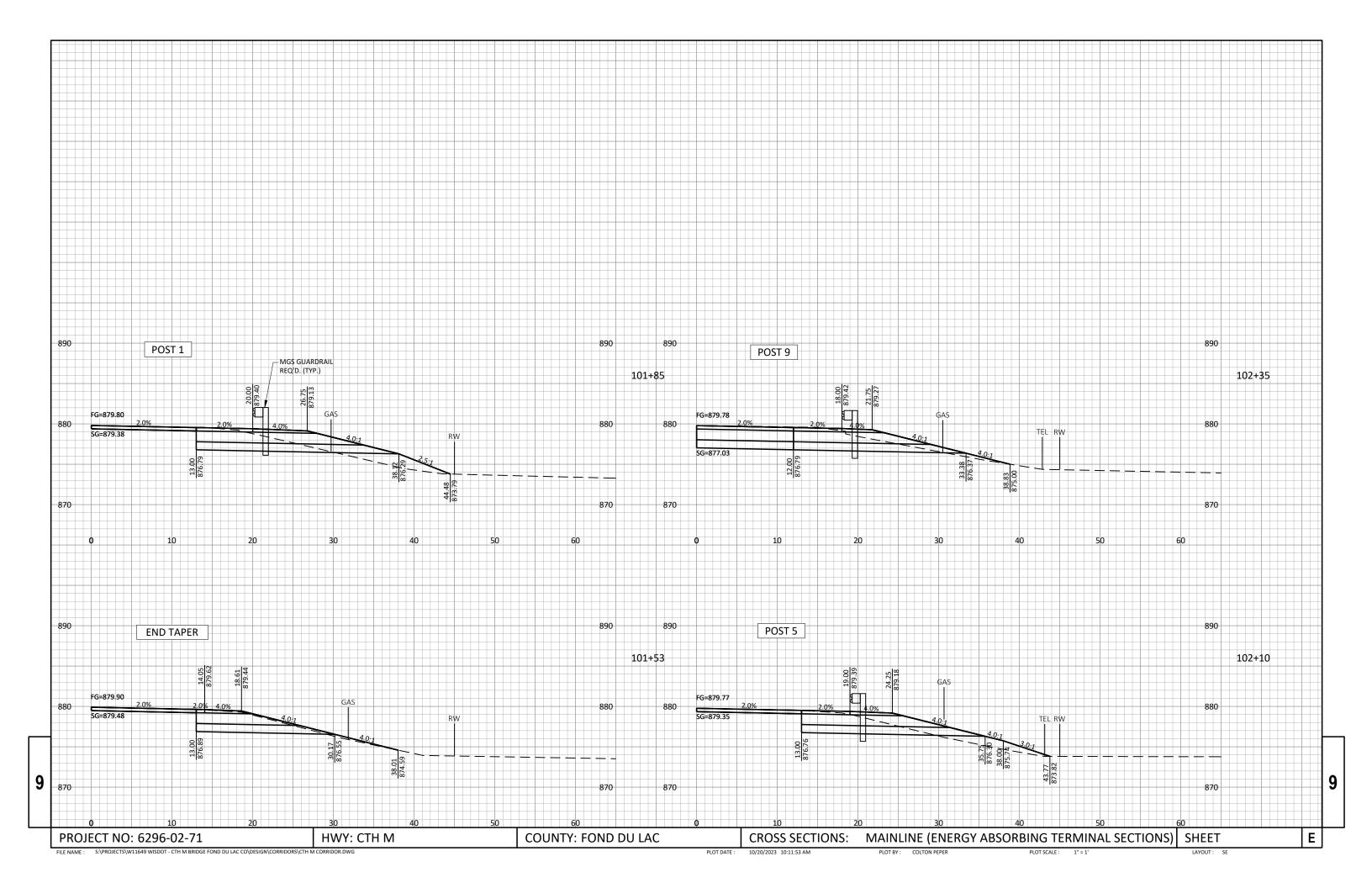
# SHEET

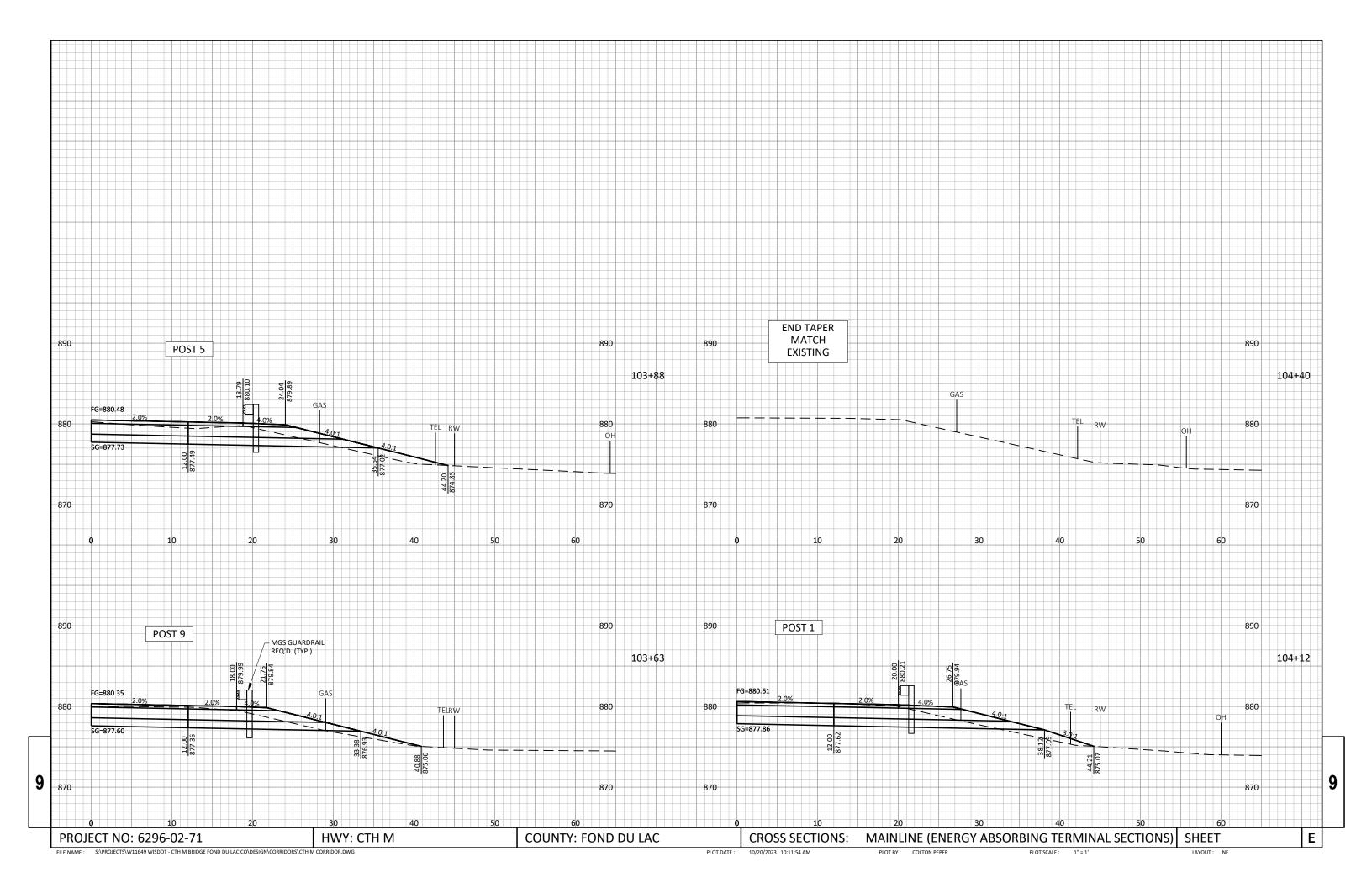


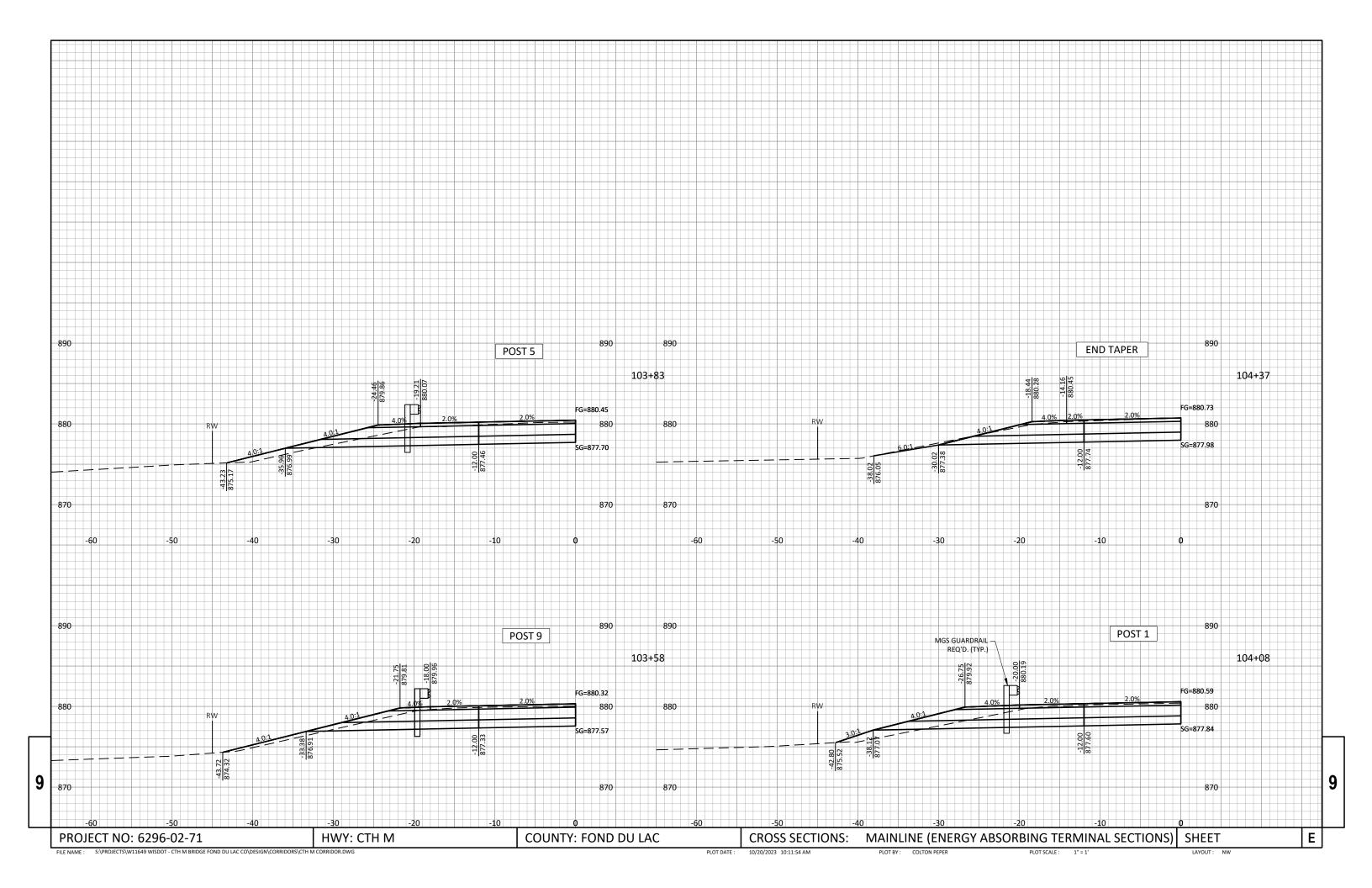


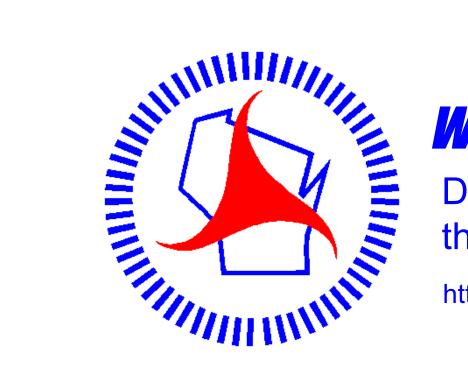












# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov

