

GENERAL NOTES

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

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT LOCATION THAT ARE NOT SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING ALL UTILITIES.

A SAWED JOINT WILL BE REQUIRED WHERE NEW PAVEMENT IS TO MEET AN EXISTING PAVED SURFACE.

EXACT TRAFFIC CONTROL LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD. ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.

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

PROTECT FROM DAMAGE AND COMPLETE SHOULDER WORK AROUND ANY EXISTING SIGNS OR MAILBOXES THAT ARE TO REMAIN IN PLACE.

RESTORATION OF EXPOSED SLOPES AND DITCHES SHALL TAKE PLACE WITHIN 7 CALENDAR DAYS AFTER FINISHED GRADING IS COMPLETE.

WETLANDS ARE PRESENT IN THE PROJECT AREA. DO NOT DISTURB WETLANDS OUTSIDE THE PROPOSED SLOPE INTERCEPTS

IF AN EXISTING SIGN IS TO BE REMOVED AND REPLACED WITH A NEW SIGN, DO NOT REMOVE THE EXISTING SIGN PRIOR TO INSTALLATION OF THE NEW SIGN.

THE LOCATIONS OF EROSION CONTROL ITEMS SHALL BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

FERTILIZER SHALL NOT BE USED WITHIN 20 FEET OF NAVIGABLE WATERWAYS OR WETLANDS.

ASPHALT PAVEMENT LAYERS: -UPPER: 1.75-INCH -LOWER: 2.25-INCH

AVERAGE DAILY TRAFFIC

COMMERCIAL ENTRANCE

DIRECTIONAL DISTRIBUTION

DESIGN HOURLY VOLUME

DYNAMIC MESSAGE SIGN

INTELLIGENT TRAFFIC SYSTEM

POINT OF COMMON CURVATURE

POINT OF REVERSE CURVATURE

TRAFFIC CONDITION CAMERA

ARTERIAL TRAFFIC MANAGEMENT SYSTEM

ABBREVIATIONS

BENCHMARK

BETWEEN

CENTER

FASTBOUND

GALVANIZED

MAXIMUM

MINIMUM

NORMAI

PAVEMENT

REQUIRED

TYPICAL

VARIABI F

WEIGHT

WESTBOUND

CROSS WALK

REFERENCE LINE

SOUTHBOUND

PERCENT TRUCKS

SYMMETRICAL

NORTHBOUND

POINT OF CURVATURE

PROFILE GRADE LINE

POINT OF TANGENCY

POINT OF INTERSECTION

HOT MIX ASPHALT

HIGH STRENGTH

FXISTING

BACK OF CURB

CONSTRUCTION

CONTROL POINT

CURB AND GUTTER

A.D.T.

ATMS

BM

BOC

BTWN

C&G

C.E. CONST

CP CTR.

DD

D.H.T.

DMS

EB

FXIST

GALV.

HMA

H.S.

MAX

MIN

NB NOR

PC

PCC

PGL

PT PVT

R/I

REQ'D

SB SYM

TCC

TYP

VAR

WB Wt.

X-WALK

ΡI PRC

ITS

PROJECT CONTACTS

AFAYETTE COUNTY HIGHWAY DEPARTMENT DAN RIELLY HIGHWAY COMMISSIONER 12016 HILL STREET P.O. BOX 100 DARLINGTON, WI 53530 P. (608) 776-4917 E: DAN.RIELLY@LAFAYETTECOUNTYWI.ORG

WISCONSIN DEPARTMENT OF NATURAL RESOURCES SHELLEY NELSC SOUTHWEST REGION HEADQUARTERS 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711 P: (608) 444-2835 E: SHELLY.NELSON@WISCONSIN.GOV

DESIGNER AMANDA INMAN, PE AYRES ASSOCIATES 5201 EAST TERRACE DRIVE, SUITE 200 MADISON WI 53718 P: (608) 443-1239 E: INMÁNA@AYRESASSOCIATES.COM

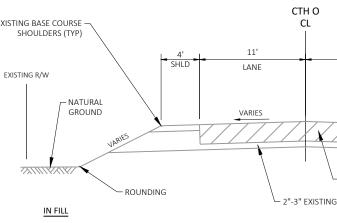
UTILITIES LUMEN DOUG MCGOWAN 135 NORTH BONSON STREET PLATTEVILLE, WI 53818 P: (608) 342-4316

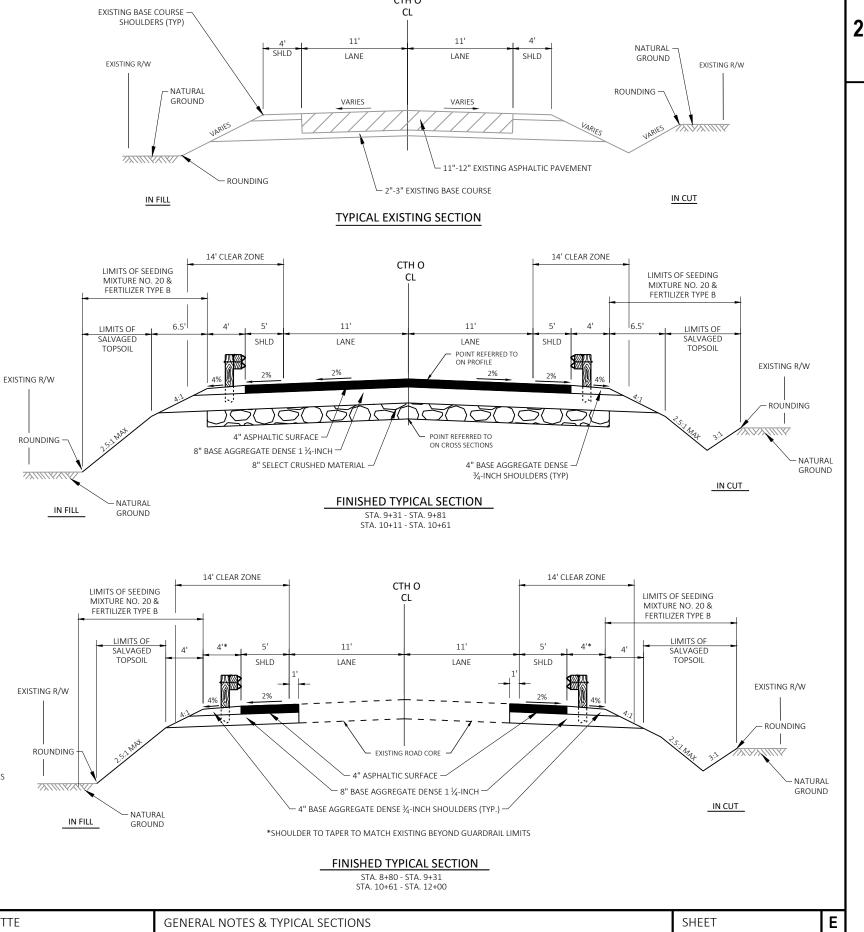


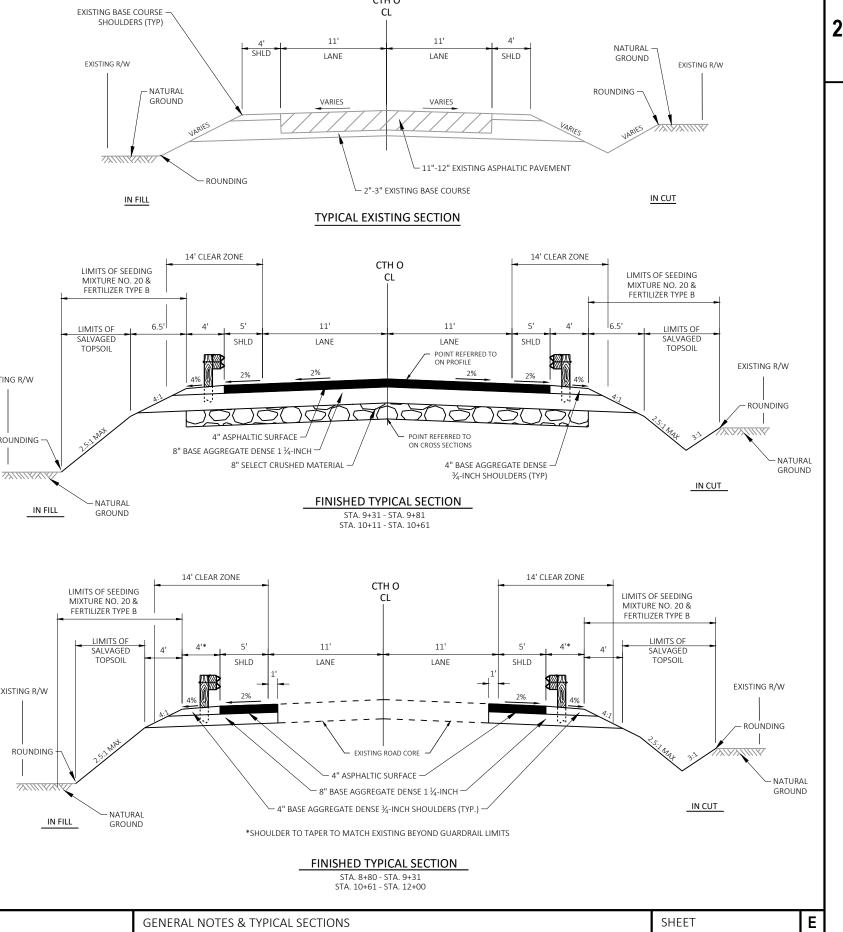




www.DiggersHotline.com





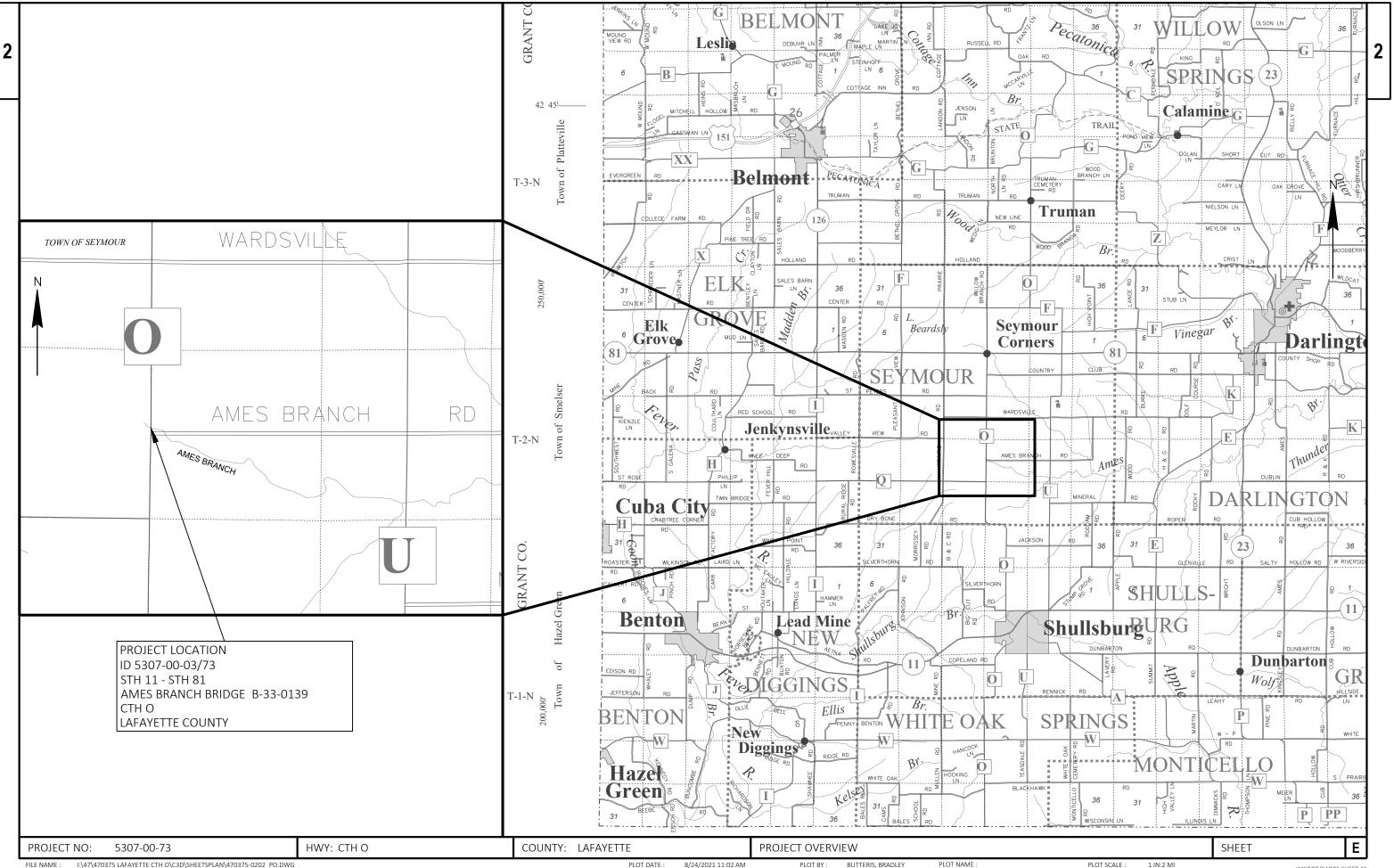


PROJECT NO: 5307-00-73	HWY: CTH O	COUNTY: LAFAYETTE		GENERAL NOTES & TYPICAL SECTIONS				
FILE NAME : I:\47\470375 LAFAYETTE CTH O\C3D\SHEETSPLAN\470375-	D201_GN.DWG	PLOT DATE :	7/23/2022 8:49 PM	PLOT BY :	INMAN, AMANDA	PLOT NAME :		

LAYOUT NAME - 01

PLOT SCALE : 1 IN:100 FT

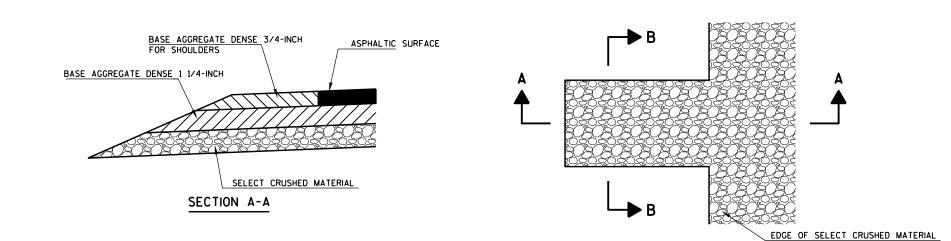
WISDOT/CADDS SHEET 42



I:\47\470375 LAFAYETTE CTH O\C3D\SHEETSPLAN\470375-0202 PO.DWG FILE NAME : LAYOUT NAME - 01

PLOT DATE : 8/24/2021 11:02 AM

BUTTERIS, BRADLEY PLOT NAME



DF T A II	FOR	FRENCH	DRAINS
	1 011		DIVANU

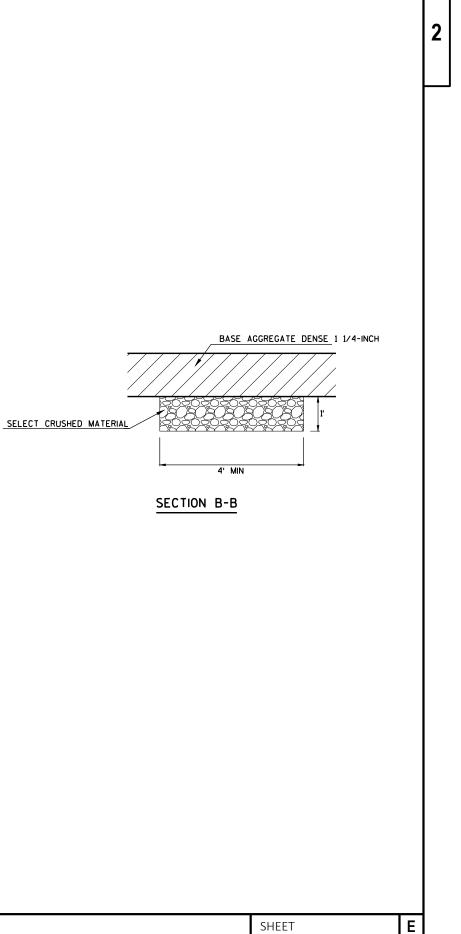
EXACT LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

EXCAVATION REQUIRED TO CONSTRUCT FRENCH DRAINS SHALL BE CONSIDERED INCIDENTAL TO THE ITEM SELECT CRUSHED MATERIAL.

DO NOT COVER SELECT CRUSHED MATERIAL WITH TOPSOIL.

PROJECT NO: 5307-00-73	HWY: CTH O	COUNTY: LAFAYETTE		CONSTRUCTION	I DETAILS	
FILE NAME : I:\47\470375 LAFAYETTE CTH O\C3D\SHEETSPLAN\470375-0203_TS LAYOUT NAME - 01	DWG	PLOT DATE :	1/10/2022 4:00 PM	PLOT BY :	INMAN, AMANDA	PLOT NAME :

2



PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

Estimate Of Quantities By Plan Sets

					5307-00-73
Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	1.000	1.000
0004	201.0205	Grubbing	STA	1.000	1.000
0006	203.0250	Removing Structure Over Waterway Remove Debris (structure) 01. B-33-0854	EACH	1.000	1.000
0010	205.0100	Excavation Common	CY	285.000	285.000
0012	206.1001	Excavation for Structures Bridges (structure) 01. B-33-0139	EACH	1.000	1.000
0016	210.1500	Backfill Structure Type A	TON	480.000	480.000
0018	213.0100	Finishing Roadway (project) 01. 5307-00-73	EACH	1.000	1.000
0022	305.0110	Base Aggregate Dense 3/4-Inch	TON	100.000	100.000
0024	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	690.000	690.000
0026	312.0110	Select Crushed Material	TON	580.000	580.000
0028	455.0605	Tack Coat	GAL	44.000	44.000
0030	465.0105	Asphaltic Surface	TON	139.000	139.000
0032	502.0100	Concrete Masonry Bridges	CY	124.000	124.000
0034	502.3200	Protective Surface Treatment	SY	166.000	166.000
0036	505.0400	Bar Steel Reinforcement HS Structures	LB	5,200.000	5,200.000
0038	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	15,090.000	15,090.000
0040	513.4061	Railing Tubular Type M	LF	66.000	66.000
0042	516.0500	Rubberized Membrane Waterproofing	SY	14.000	14.000
0044	550.0020	Pre-Boring Rock or Consolidated Materials	LF	92.000	92.000
0046	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	140.000	140.000
0050	606.0300	Riprap Heavy	CY	140.000	140.000
0052	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	170.000	170.000
0054	614.0920	Salvaged Rail	LF	108.000	108.000
0056	614.2500	MGS Thrie Beam Transition	LF	158.000	158.000
0058	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
0060	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5307-00-73	EACH	1.000	1.000
0064	619.1000	Mobilization	EACH	0.500	0.500
0066	623.0200	Dust Control Surface Treatment	SY	1,330.000	1,330.000
0068	624.0100	Water	MGAL	9.000	9.000
0070	625.0500	Salvaged Topsoil	SY	153.000	153.000
0072	628.1504	Silt Fence	LF	720.000	720.000
0074	628.1520	Silt Fence Maintenance	LF	1,440.000	1,440.000
0076	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0078	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0080	628.2008	Erosion Mat Urban Class I Type B	SY	204.000	204.000
0082	628.6005	Turbidity Barriers	SY	188.000	188.000
0084	628.7504	Temporary Ditch Checks	LF	20.000	20.000
0086	629.0210	Fertilizer Type B	CWT	1.200	1.200
0088	630.0120	Seeding Mixture No. 20	LB	18.000	18.000
0090	630.0200	Seeding Temporary	LB	18.000	18.000
0090	630.0200	Seeding Borrow Pit	LB	0.500	0.500
0092	630.0500	Seed Water	MGAL	12.900	12.900
0094	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	4.000	4.000
0098	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0100	638.2602	Removing Signs Type II	EACH	6.000	6.000
		Removing Small Sign Supports	EACH		
0102	638.3000		EACH	6.000	6.000 0.500
0104	642.5001	Field Office Type B		0.500	
0106	643.0420	Traffic Control Barricades Type III	DAY	2,232.000	2,232.000
0108	643.0705	Traffic Control Warning Lights Type A	DAY	2,976.000	2,976.000



5307-00-73 Line ltem Item Description Unit Total Qty 643.0900 Traffic Control Signs DAY 1,736.000 1,736.000 0110 Traffic Control EACH 0.500 0.500 0112 643.5000 110.000 110.000 645.0111 Geotextile Type DF Schedule A SY 0114 SY 280.000 0116 645.0120 Geotextile Type HR 280.000 Construction Staking Subgrade LF 100.000 100.000 0118 650.4500 LF 290.000 0120 650.5000 Construction Staking Base 290.000 Construction Staking Structure Layout (structure) 01. B-33-0139 0122 650.6501 EACH 1.000 1.000 0126 650.9911 Construction Staking Supplemental Control (project) 01. 5307-00-73 EACH 1.000 1.000 LF 0130 650.9920 Construction Staking Slope Stakes 290.000 290.000 0132 690.0150 Sawing Asphalt LF 450.000 450.000

DOL

EACH

Estimate Of Quantities By Plan Sets

744.000

1.000

744.000

1.000

3

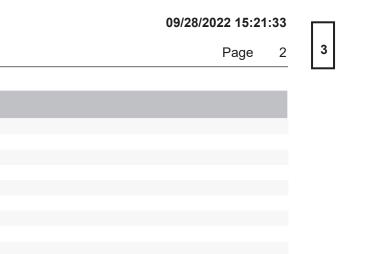
0134

0136

715.0502

Incentive Strength Concrete Structures

999.2000.S Installing and Maintaining Bird Deterrent System (station) 01. 10+00



			стн о	EARTHWORK SU	JMMARY				
			Excavation (1) 05.0100)		Expanded Fill (2)	Mass Ordinate +/-	Waste	Borrow (Item 208.0100)	Comment:
From/To Station	Location	Cut	Unusable		Factor 1.30	(3)			
8+84 to 9+85	CTH O, SOUTH APPROACH	98	36	12	16	82		82	
0+15 to 12+00	CTH O, NORTH APPROACH	113	38	95	124	-11	-11		
10+15 to 12+00	CTH O, NORTH APPROACH	113	38	95	124	-11	-11		
	TOTAL	-	285		140			71	

1) Common Excavation is the Cut. Unusable excavation is existing pavement. Item number 205.0100.

2) Expanded Fill. Factor = 1.30; Expanded Fill = Unexpanded Fill * Fill Factor

3

3) The Mass Ordinate + or - Qty calculated for the side of the waterway. Plus quantity indicates an excess of material on the side of the waterway. 4) All quantities shown in CY.

																*	**	
					305.0110	305.0120	312.0110	624.0100								455.0605	465.0105	
						BASE											ASPHALTIC	
					BASE	AGGREGATE										TACK COAT	SURFACE	
					AGGREGATE	DENSE 1 1/4-	SELECT CRUSHED			<u> </u>	ATEGORY	STATION	TO	STATION	LOCATION	GAL	TON	REMARKS
					DENSE 3/4-INCH	INCH	MATERIAL	WATER								4.0	5.0	
CATEGORY	STATION	TO	STATION	LOCATION	TON	TON	TON	MGAL	REMARKS		0010	8+80	-	9+81	MAINLINE	19	59	SOUTH APPROACH
											0010	10+11	-	12+00	MAINLINE	25	80	NORTH APPROACH
0010	9+31	-	9+81	MAINLINE	50	330	290	4	SOUTH APPROACH						TOTAL 0010	44	139	
0010	10+11	-	10+61	MAINLINE	50	360	290	5	NORTH APPROACH	N	OTES:							
				TOTAL 0010	100	690	580	9	_			PPLICATIO	N RATE	E=0.07 GA	L/SY			

** ASSUMED ASPHALT AT 112 LBS/SY/IN

GUARDRAIL

					614.0920	614.2500 MGS THRIE	614.2610
						BEAM	MGS GUARDRAIL
					SALVAGED RAIL	TRANSITION	TERMINAL EAT
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	EACH
0010	8+80	-	10+00	LT	28	39.5	1
0010	8+80	-	10+00	RT	26	39.5	1
0010	10+00	-	12+00	LT	27	39.5	1
0010	10+00	-	12+00	RT	27	39.5	1
				TOTAL 0010	108	158	4

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJECT NO: 5307-00-73	HWY: CTH O	COUNTY: LAFAYETTE	MISCELLANEOUS QUANTITIES

<u>ASPHALT</u>

SHEET NO:

E

EROSION CONTROL AND FINISHING ITEMS

					625.0500	628.1504	628.1520	628.2008 EROSION MAT	628.6005	628.7504 TEMPORARY	629.0210	630.0120	630.0200	630.0300	630.0500
					SALVAGED TOPSOIL	SILT FENCE	SILT FENCE MAINTENANCE	URBAN CLASS I TYPE B	TURBIDITY BARRIERS	DITCH CHECKS	FERTILIZER TYPE B	SEEDING MIXTURE NO. 20	SEEDING TEMPORARY	SEEDING BORROW PIT	SEED WATER
CATEGORY	STATION	ТО	STATION	LOCATION	SY	LF	LF	SY	SY	LF	CWT	LB	LB	LB	MGAL
0010	8+80	-	10+00	LT	16			18	-	10	0.1	2	2	-	1.3
0010	8+80	-	10+00	RT	6	125	250	14	88	10	0.1	2	2	0.4	1.1
0010	10+00	-	12+00	LT	62	230	460	73	-	-	0.2	5	5	-	3.8
0010	10+00	-	12+00	RT	69	220	440	80	86	-	0.2	5	5	-	3.8
0010		UN	DISTRIBUTE	Ð	-	145	290	19	14	-	0.6	4	4	0.1	2.9
				TOTAL 0010	153	720	1,440	204	188	20	1.2	18	18	0.5	12.9

<u>SIGNS</u>

			634.0614	637.2230	638.2602	638.3000						1	RAFFIC	<u>CONTROL</u>				
			POSTS WOOD			REMOVING												
			4X6-INCH X 14-	SIGNS TYPE II	REMOVING	SMALL SIGN						643.0420		643.0705		643.0900	643.5000	
			FT	REFLECTIVE F	SIGNS TYPE II	SUPPORTS										645.0900	645.5000	
CATEGORY	STATION	LOCATION	EACH	SF	EACH	EACH	REMARKS					TRAFFIC		TRAFFIC				
0,11200111	0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	200,11011	Entern	0.	Elleri	Elion	(LENG WING					CONTROL		CONTROL				
0010		S OF BRIDGE	_	_	1	1	W5-2: NARROW BRIDGE					BARRICADES		WARNING		TRAFFIC	TRAFFIC	
	0.75		1	2	1	1				DURATION		TYPE III		LIGHTS TYPE A		CONTROL SIGNS	CONTROL	
0010	9+75	RT	1	3	T	1	W5-52R: CLEARANCE STRIPER DOWN LEFT	CATEGORY	LOCATION	DAYS	NO.	DAY	NO.	DAY	NO.	DAY	EACH	REMARKS
0010	9+75	LT	1	3	1	1	W5-52L: CLEARANCE STRIPER DOWN RIGHT	CATLOONT	LUCATION	DAIS	NO.	DAI	NO.	DAI	NO.	DAI	LACIT	ILIVIAIIIKJ
0010	10+25	RT	1	3	1	1	W5-52L: CLEARANCE STRIPER DOWN RIGHT											
0010	10+25	LT	1	3	1	1	W5-52R: CLEARANCE STRIPER DOWN LEFT	0010	PER SDD 15C2	124	18	2,232	24	2,976	14	1,736	-	DETAILS C & D
0010		N OF BRIDGE	-	-	1	1	W5-2: NARROW BRIDGE	0010	CTH O	-	-	-	-	-	-	-	0.5	
		TOTAL 0010	4	12	6	6				TOTAL 0010	C	2,232		2,976		1,736	0.5	

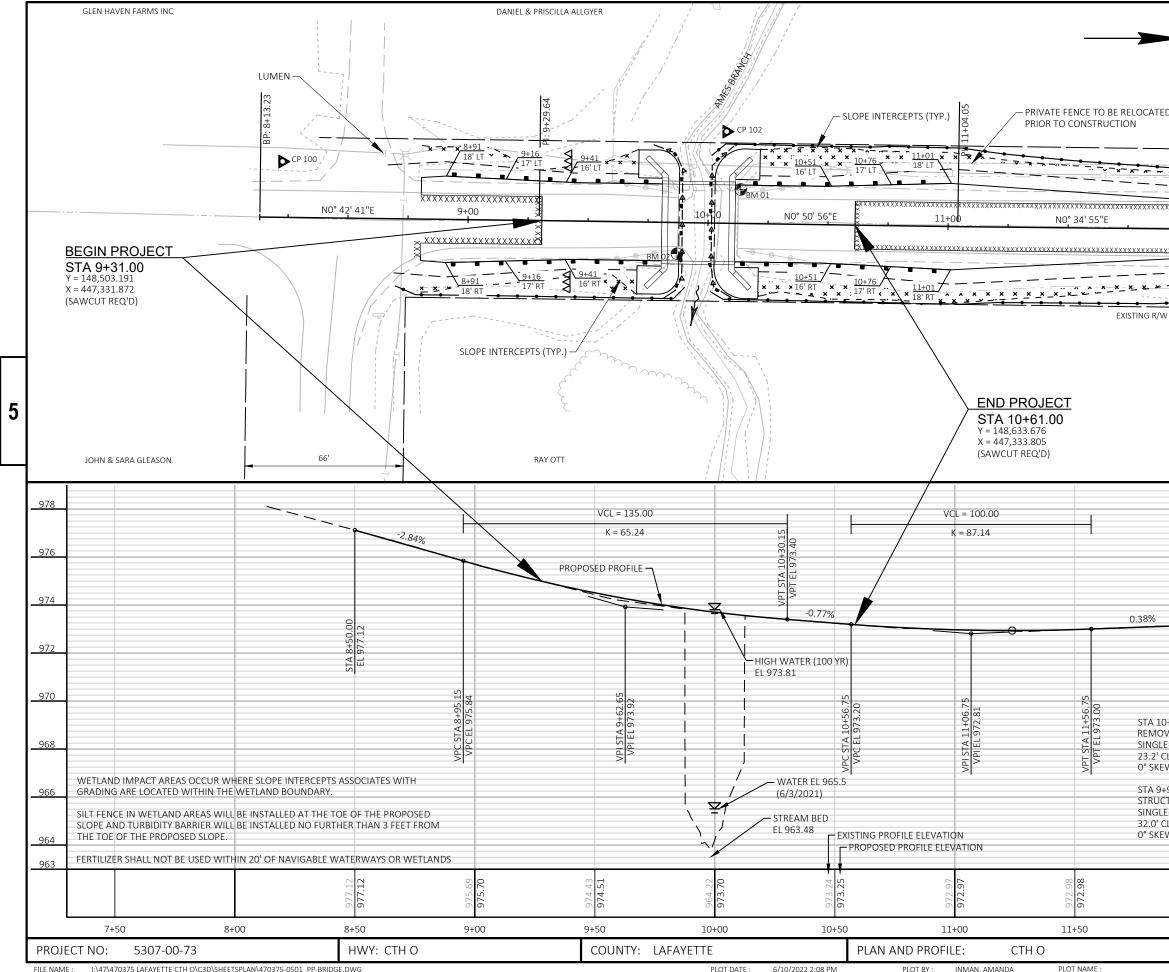
STAKING	ì
---------	---

ECT NO: 530	07-00-73			ŀ	HWY: CTH O			COUNTY: LA	FAYETTE	MISCELLANE	DUS QUANT	ITIES				
												AI	L QUANTITIES	CATEGO	DRY 0010 UNL	
				PROJECT TOTAL	100	290	1	1	290							
				TOTAL 0020	0	0	1	0	0							
0020	8+80	-	12+00	B-33-0139		-	1						TOTAL 0010	450		
				TOTAL 0010	100	290	0	1	290				UNDISTRIBUTED	20		
0010	8+80	-	12+00	MAINLINE	100	290		1	290		0010	8+10-11+90	MAINLINE	430	APPROACHES	
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	EACH	EACH	LF		CATEGORY	STATION	LOCATION	LF	REMARKS	
					SUBGRADE	STAKING BASE	(01. B-33-0139)		STAKES					ASPHALT		
					STAKING	CONSTRUCTION	(STRUCTURE)	(PROJECT) (01.	STAKING SLOPE					SAWING		
					CONSTRUCTION		STRUCTURE LAYOUT	SUPPLEMENTAL CONTROL	CONSTRUCTION					690.0150		
							STAKING	STAKING								
							CONSTRUCTION	CONSTRUCTION					SAWING ASPHALT			
					650.4500	650.5000	650.6501.01	650.9911.01	650.9920							

NLESS OTHERWISE NOTED

SHEET NO:

E



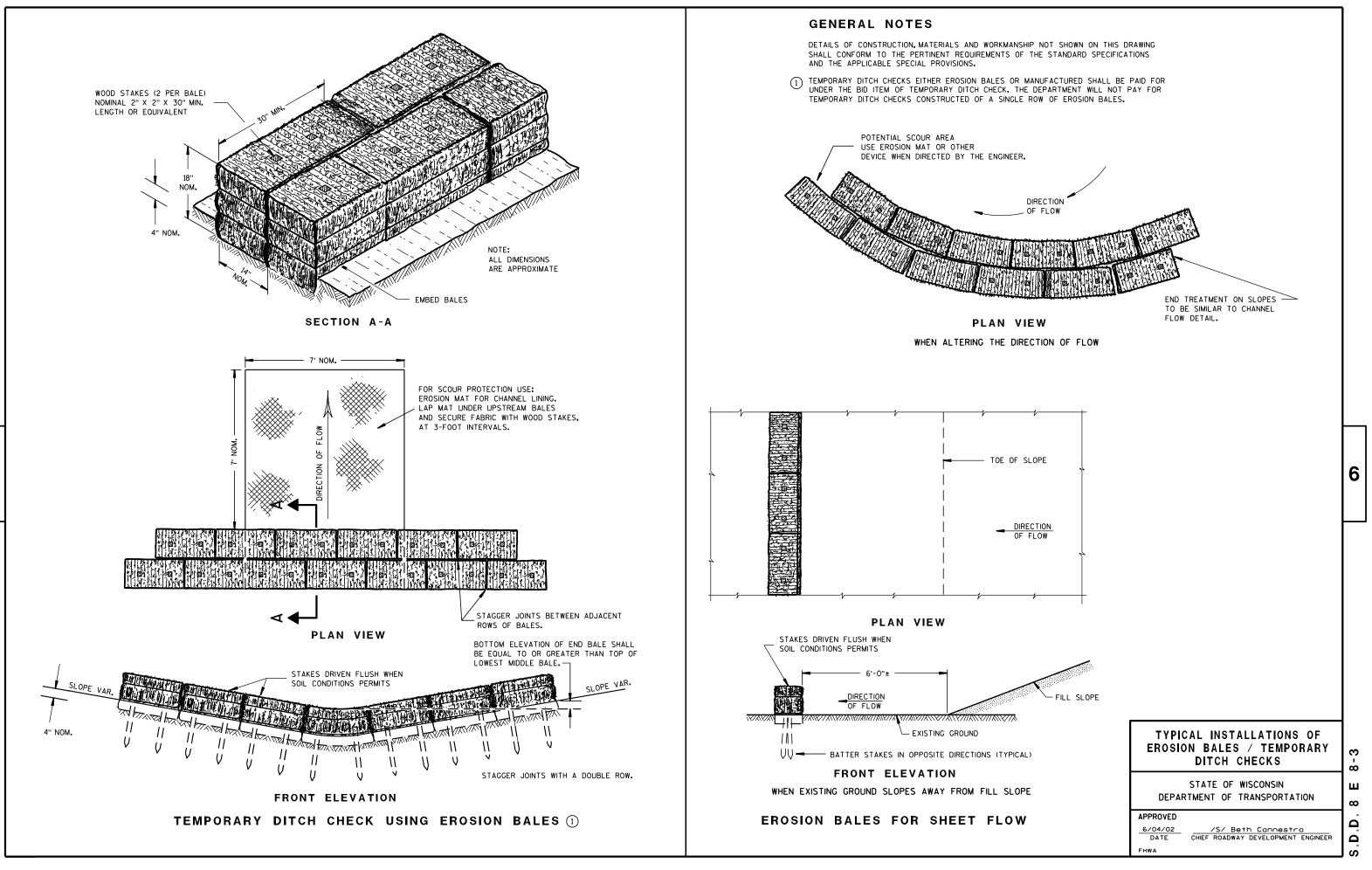
I:\47\470375 LAFAYETTE CTH O\C3D\SHEETSPLAN\470375-0501_PP-BRIDGE.DWG FILE NAME : LAYOUT NAME - CTH O

				[LEG	EN	2							
Z					.×.	×v×	×	EROSIC			N CLASS I	TYPE B NGINEER	, I	
						-		SILT FE				NONVEEN	´	
					∢ ∎−	4- ∎-	4	TURBI	ΟΙΤΥ ΒΑ	RRIER				
					~	~	-	SURFA	CE WAT	ER FLO	w			
D	.71				Λ	\wedge	^							
	2+11			l			<u> </u>	biren	CHECK					
D D DITCH CHECK		_												
*			X		X	>	÷		;	×	<×	×		
xxxxx [×]		_												
XXXXX														
12+0	00	CTH	10								6			
xxxxxx											<u>.</u>			
		1											_	
		 	_/			_							_	
		/	<u> </u>								1			
V	/			-				ARKS						
	NO. BM 01			OFFS 14' LT				CHIS. SQU		CRIPTIC)N			
	BM 02	9+8	7	13' RT										1
				<u>``</u>			DC							
		NO	FEATURE								DESCE			
				_		-							5	
			-	_		_								
				_		-								
	L	-	0.					.,						-
00.00	16											079		
12+0	973.											978	-	
STA														
												976	-	
												074		
												974	-	
	• —													
												972	-	
												070		
												370	-	
)+00 VF FXIS	TING ST	BUC	TURF B-3	3-0854										
E-SPAN	CONCR	ETE	FLAT SLAB	BRID								968	-	
.lear v W	иртн х	. 29.4	1'LENGTH											
-96												966		
TURE E				יחוסס	тE							300	-	
CLEAR V					DE									
W												964	-	
												963	_	
DILH CHELK EXISTING R/W EXISTING STRUCTURE B-33-0654 ESPAN CONCRETE FLAT SLAB BRIDGE														
973.1	973.													
				4.5					4.5			l		
12-	+00			12-	+50		-			+00		—		
								CHEE.	Г			1 6		

PLOT BY : INMAN, AMANDA PLOT DATE : 6/10/2022 2:08 PM

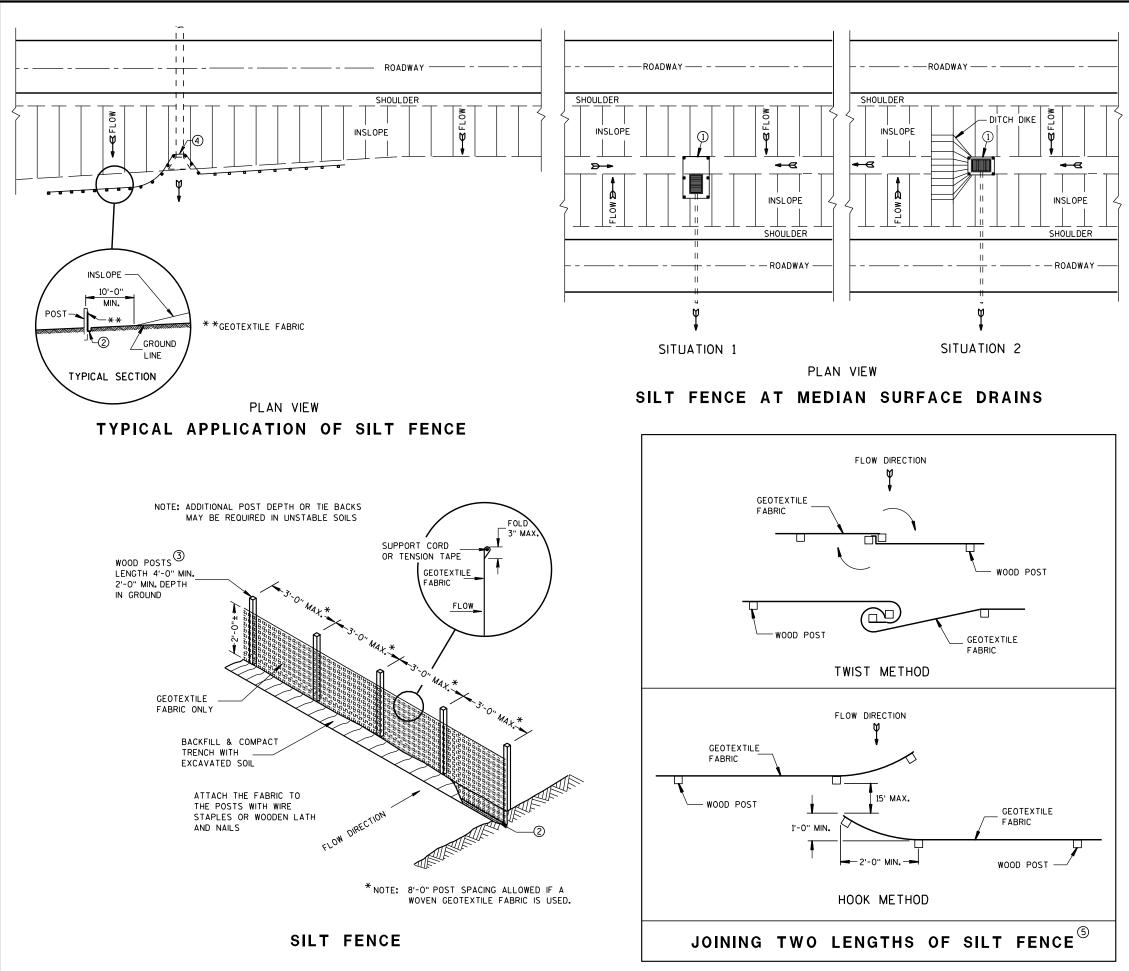
Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
13C19-03	HMA LONGI TUDI NAL JOI NTS
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
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)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-10	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS



S,D,D, 8 E 8

ω



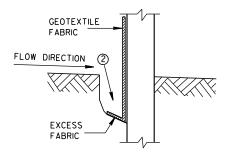
S.D.D. 8 E 9

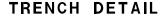
Ō

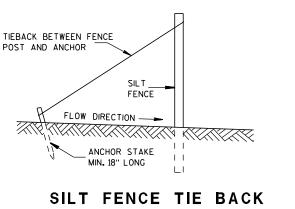
GENERAL NOTES

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

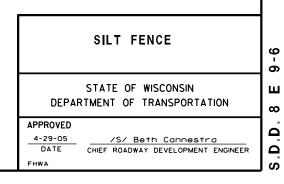
- \bigcirc horizontal brace required with 2" x 4" wooden frame or equivalent at top of posts.
- (2) FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- (3)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

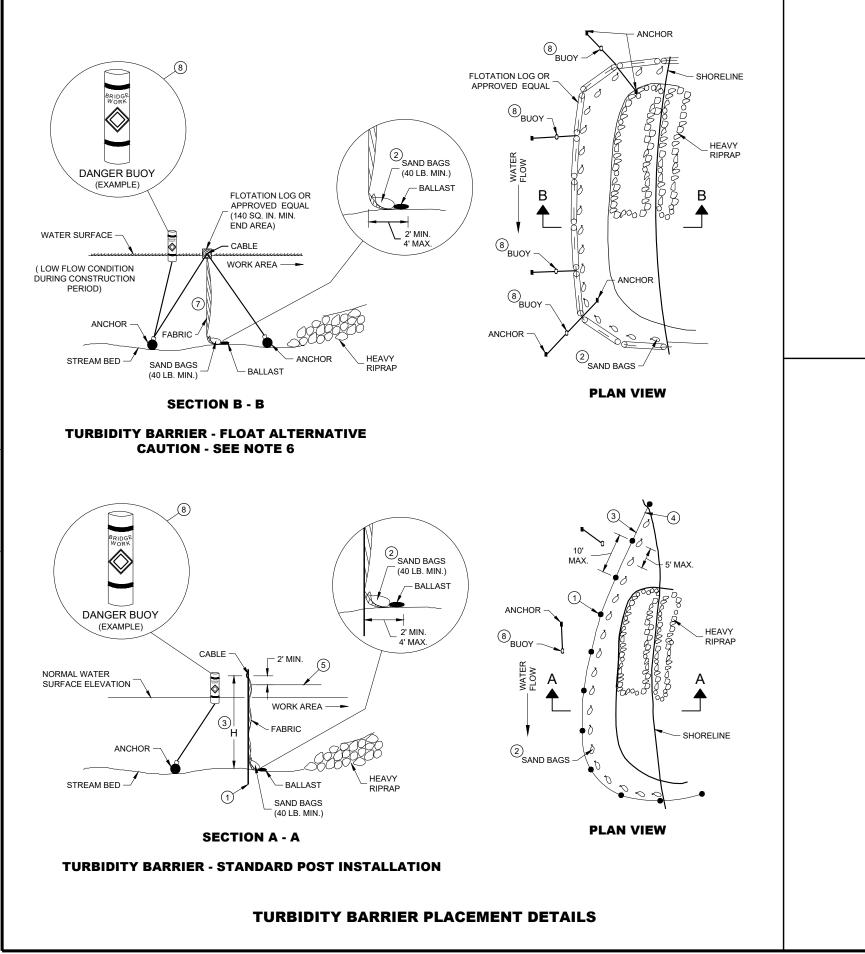




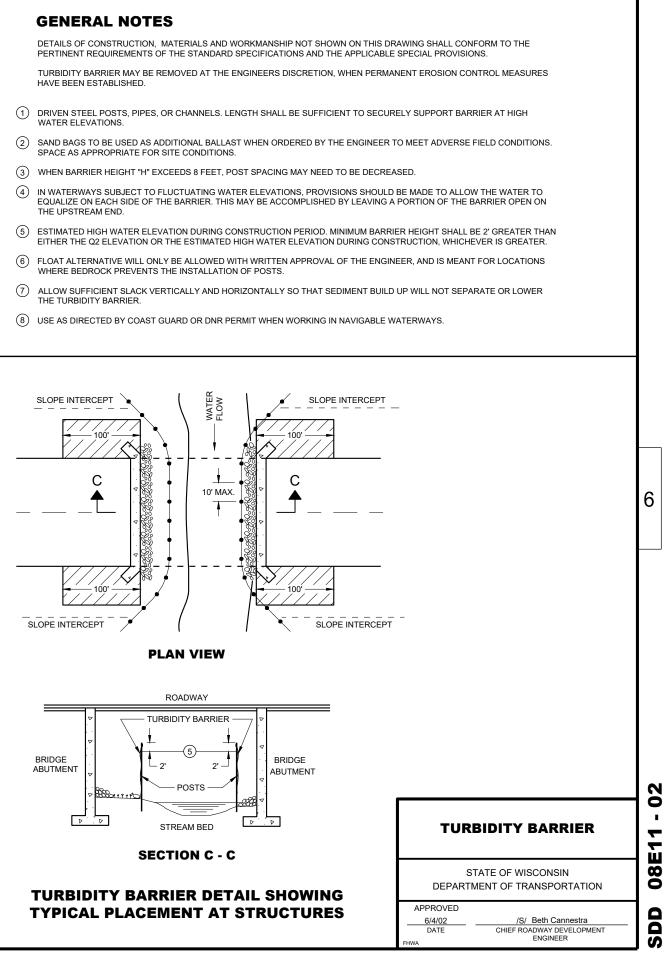


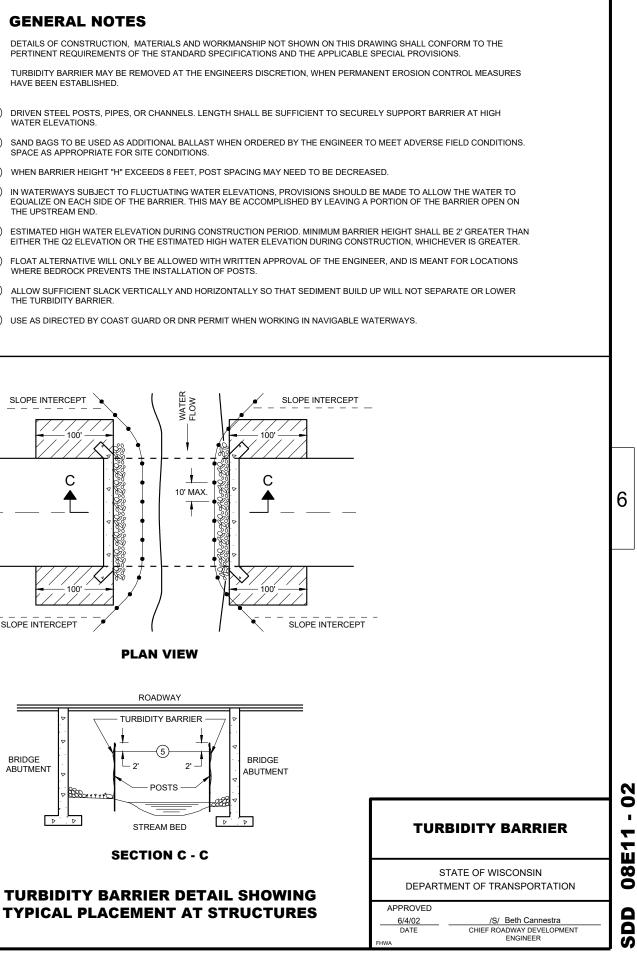
(WHEN REQUIRED BY THE ENGINEER)



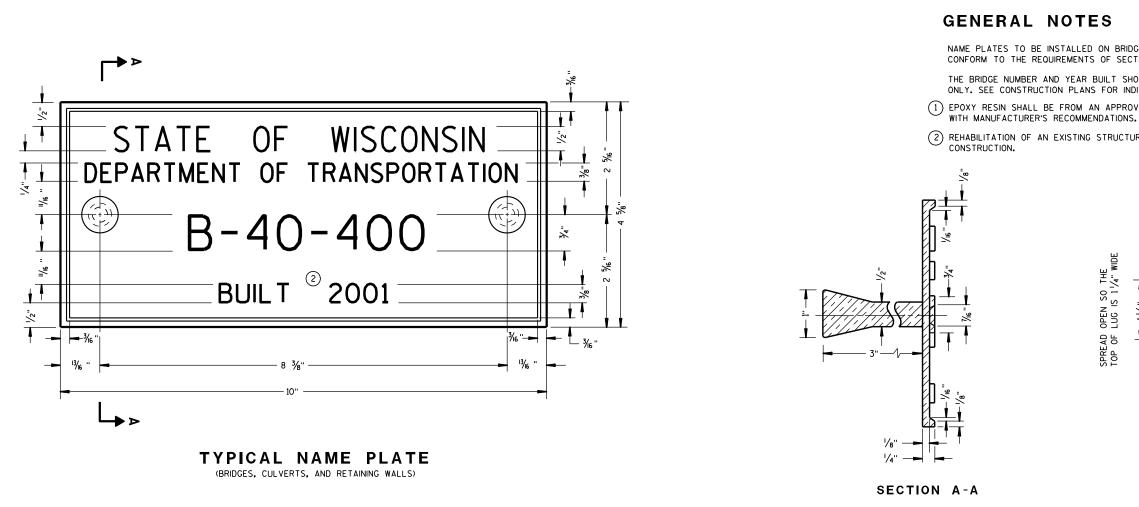


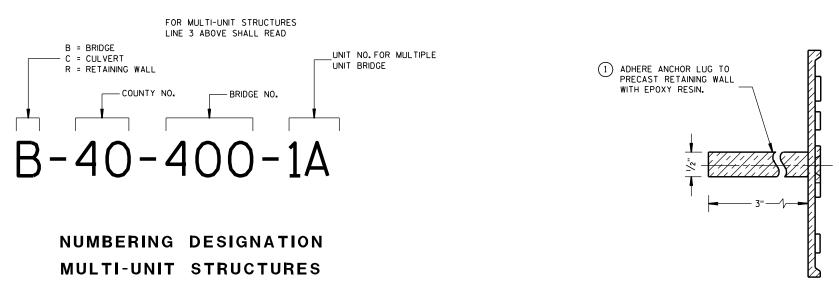
- WATER ELEVATIONS.





SDD 08E -02



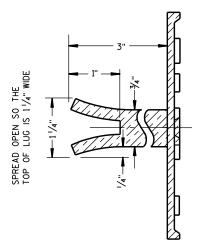


ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

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

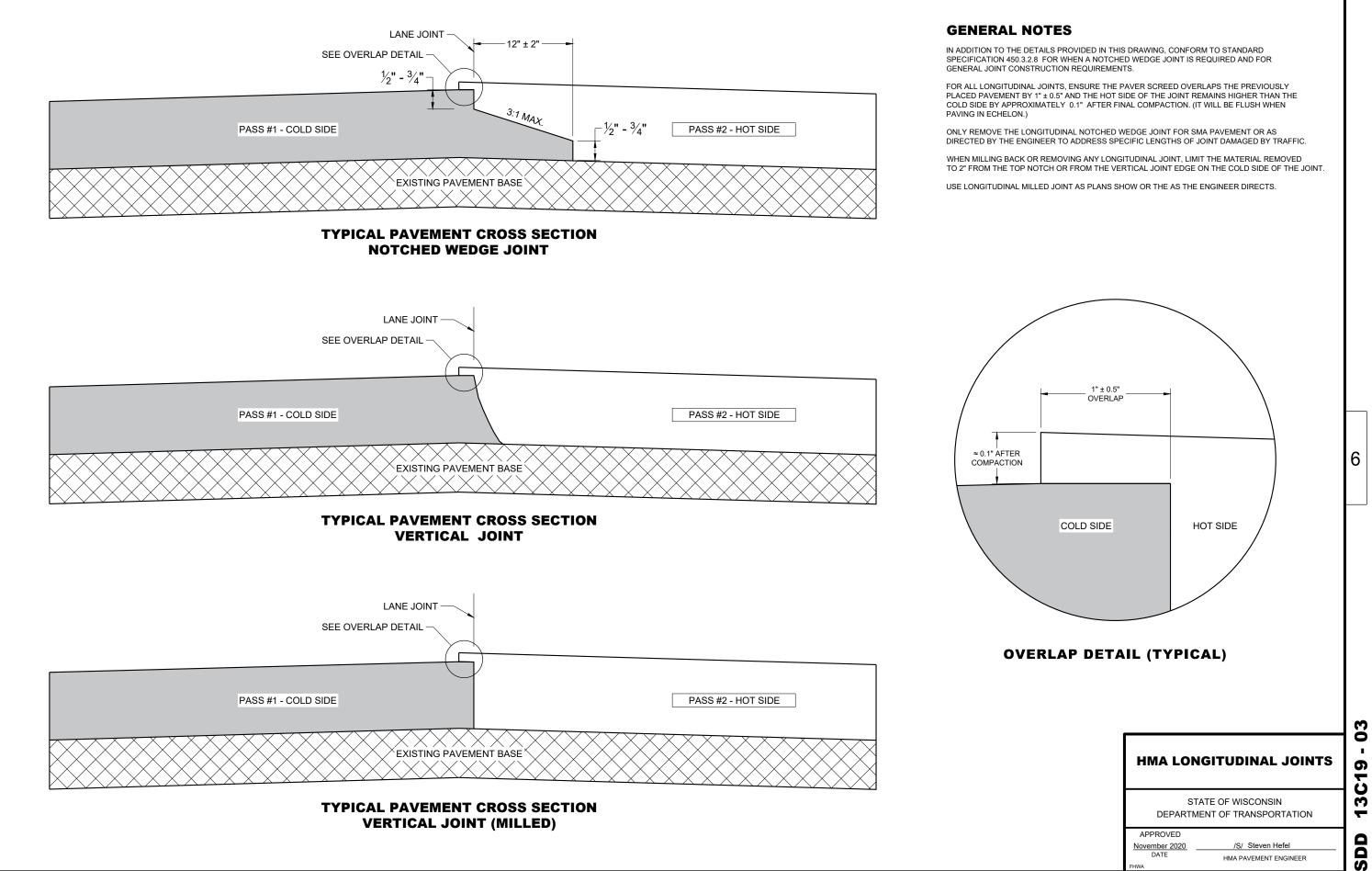
APPROVED

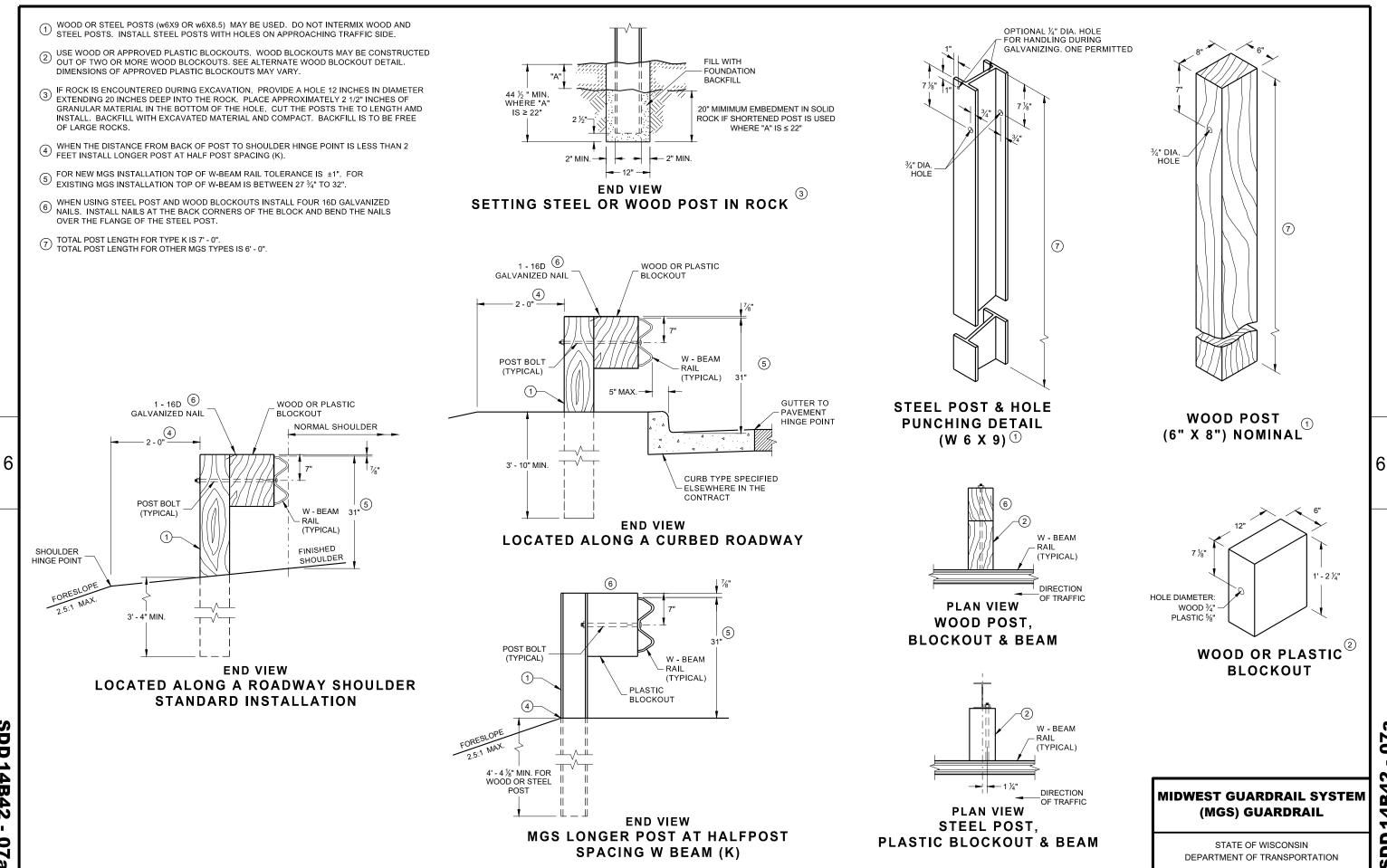
3/26/10 DATE FHWA

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

Δ

ഗ





Ö

N

4

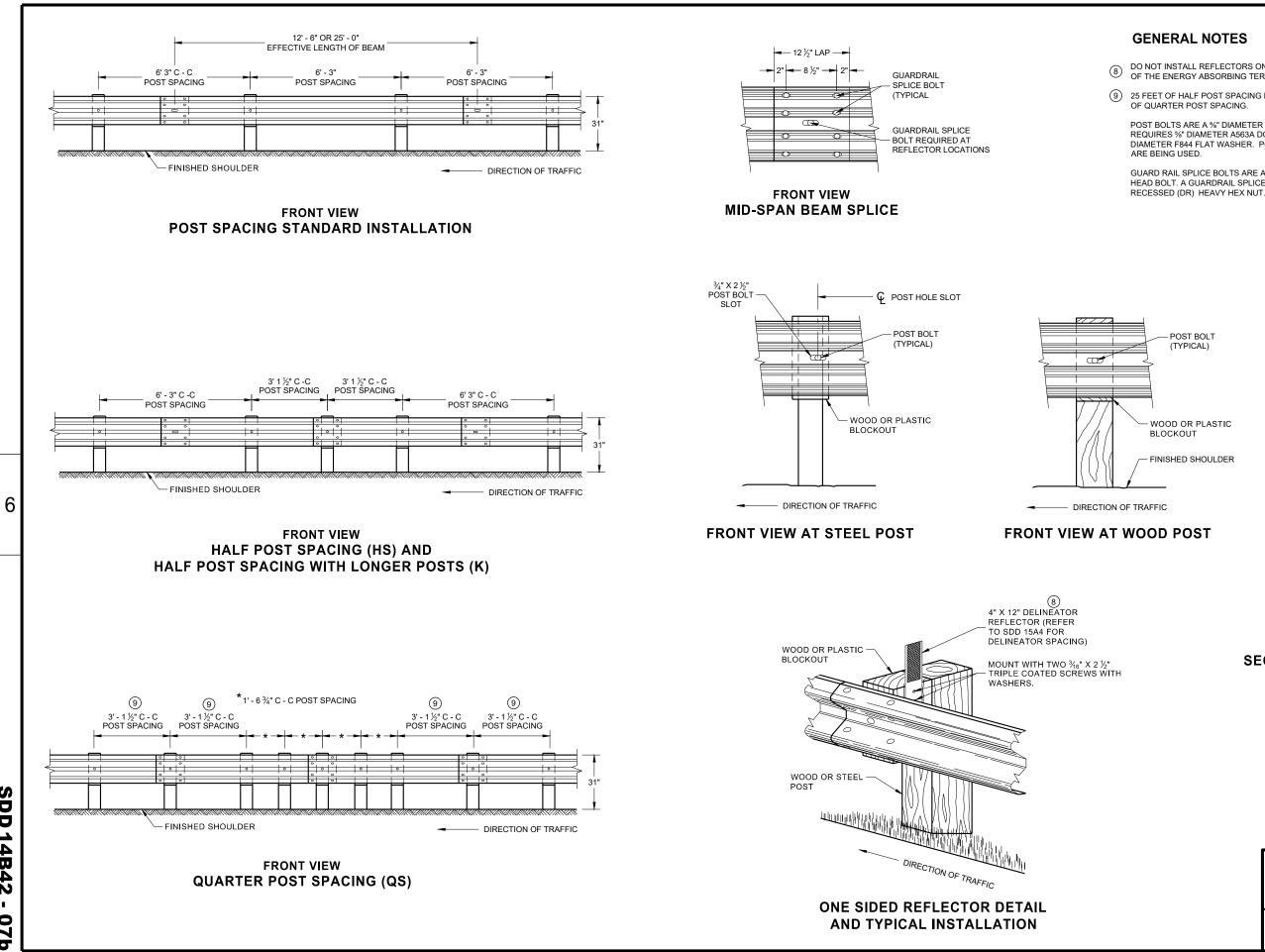
à

4

~

۵

SD



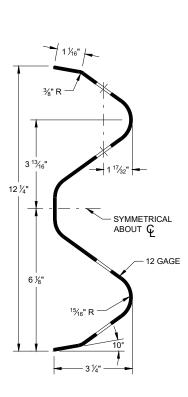
SDD 14B42 0 ð

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



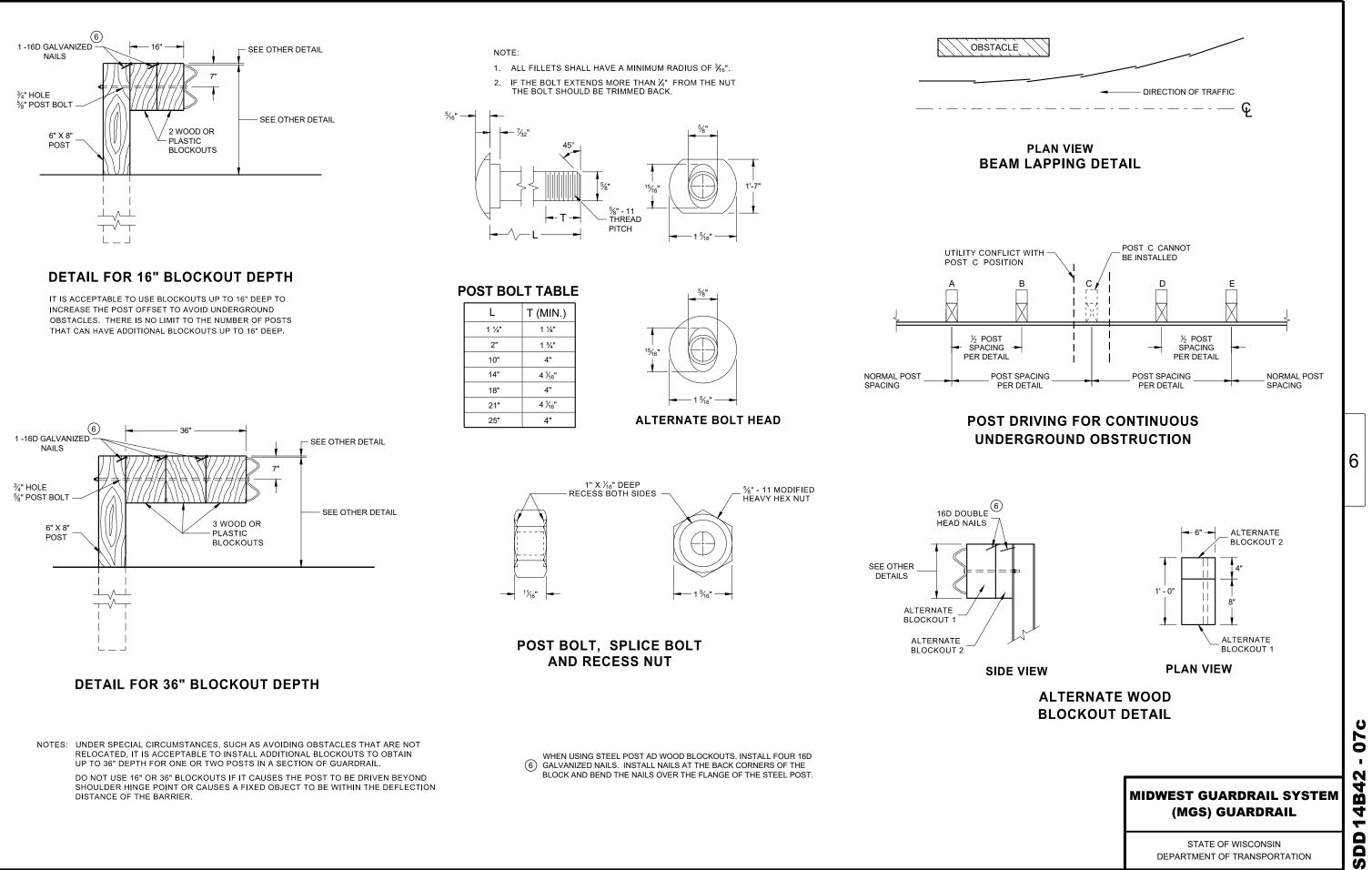
SECTION THRU W-BEAM RAIL

07b . N 4 à 4 ~ SDD

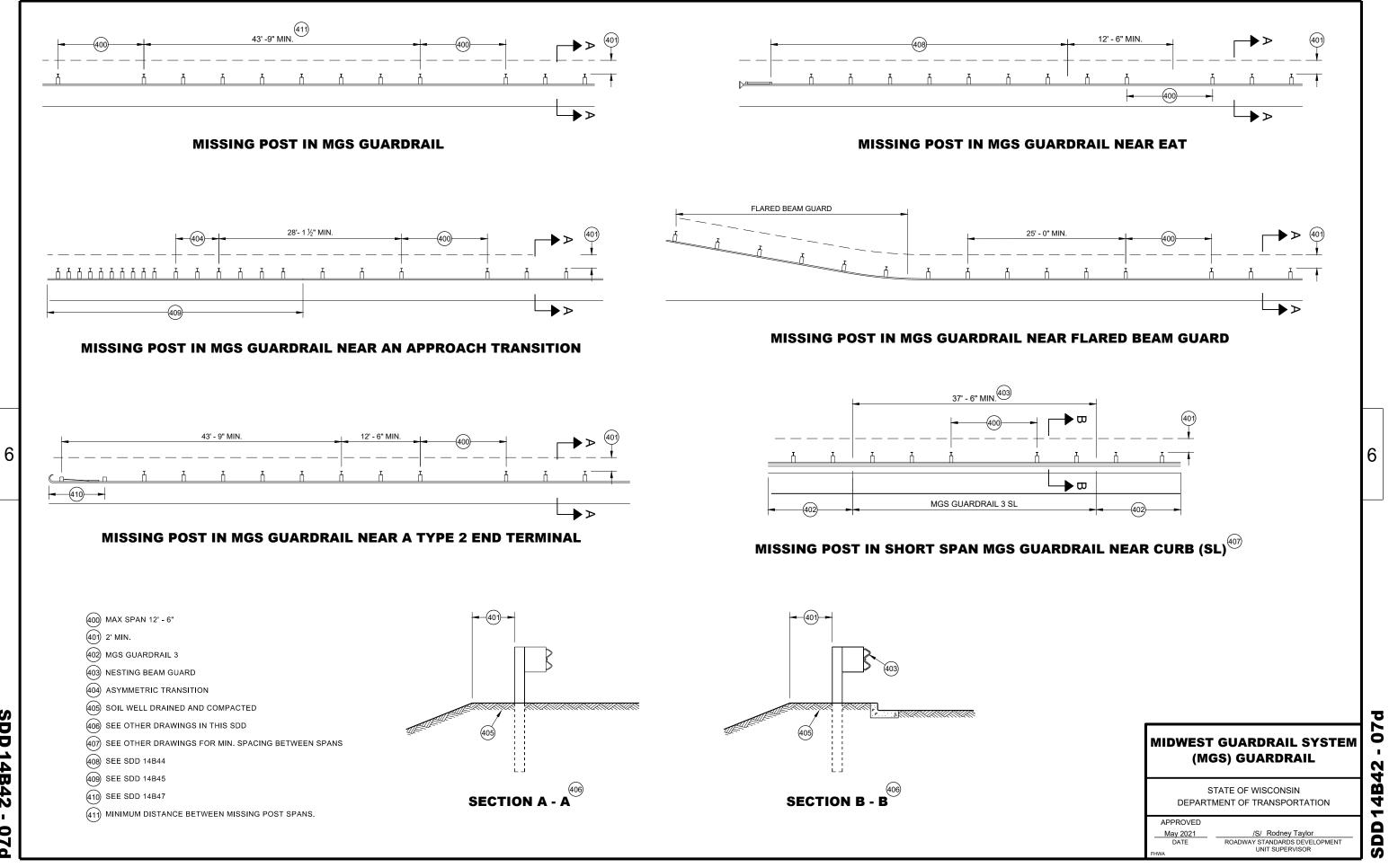
6

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.

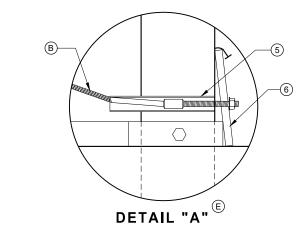
SEE SDD 14B42 FOR MORE INFORMATION.

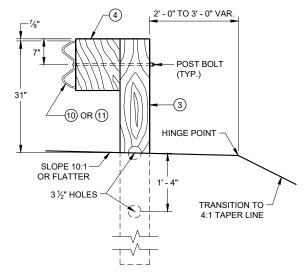
★ DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

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.

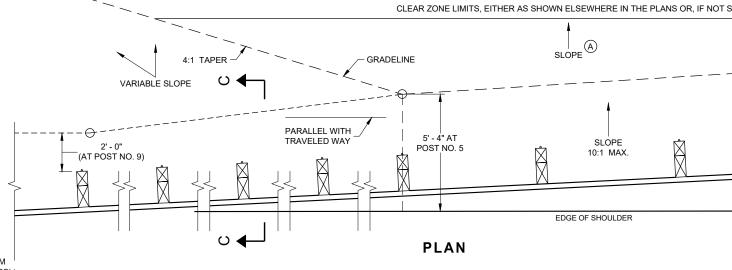


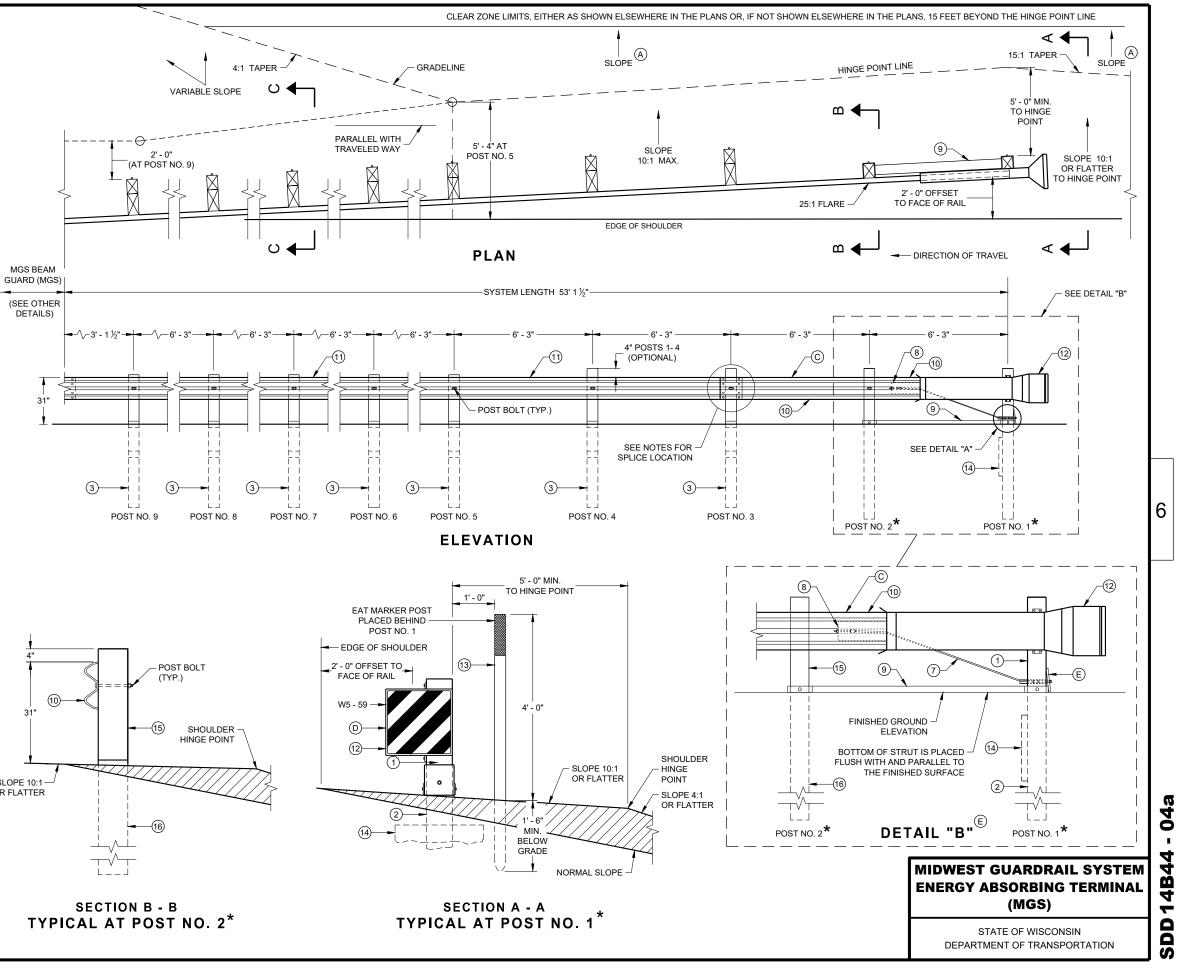


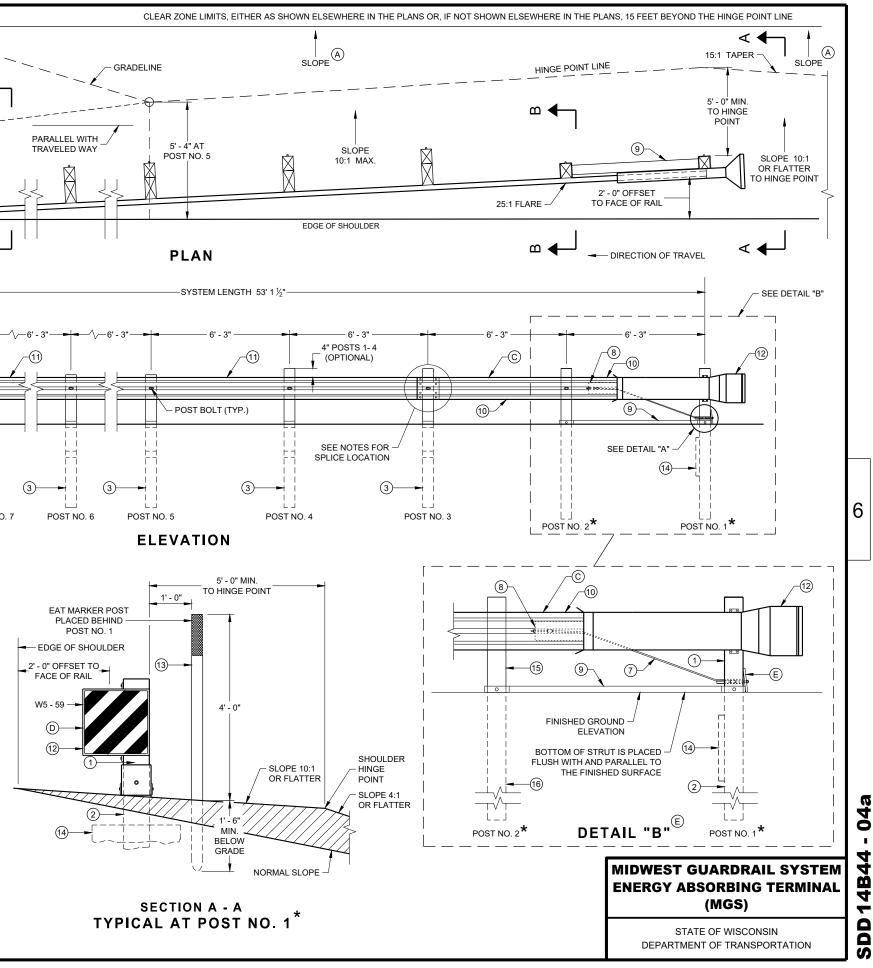
31 -(15) SHOULDER HINGE POINT SLOPE 10:1-OR FLATTER

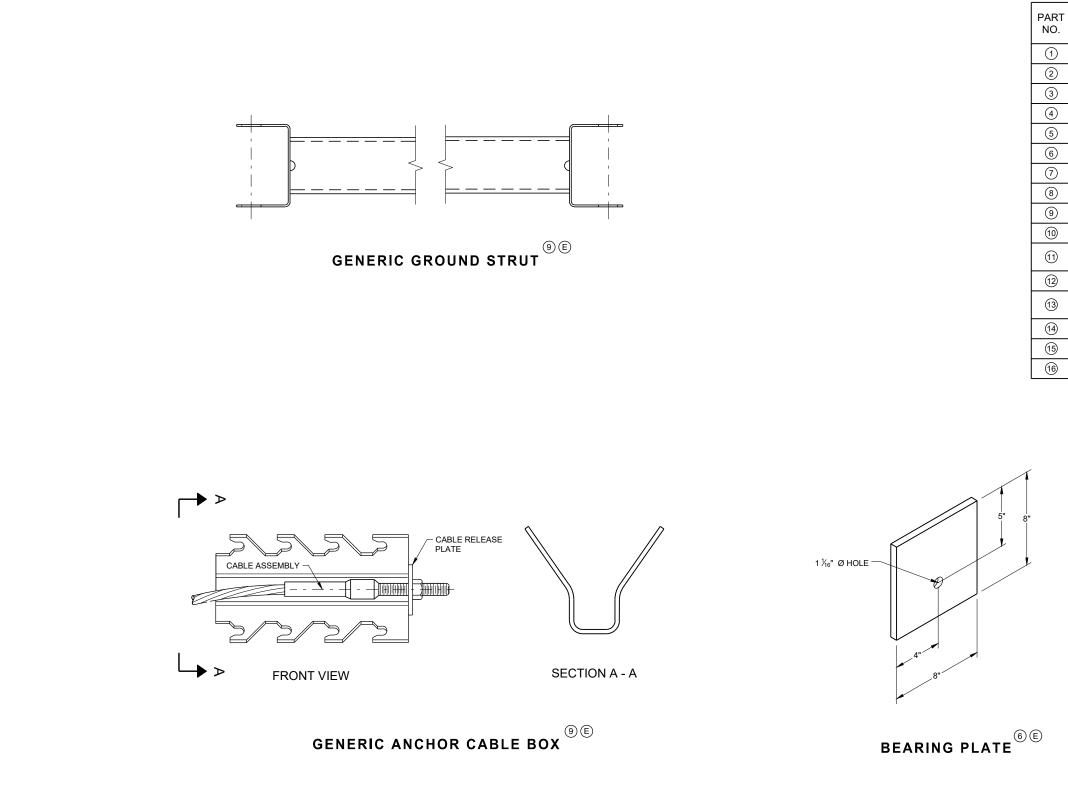
SECTION C - C **TYPICAL AT POST NOS. 3 - 9**

SECTION B - B TYPICAL AT POST NO. 2*









BILL OF MATERIALS

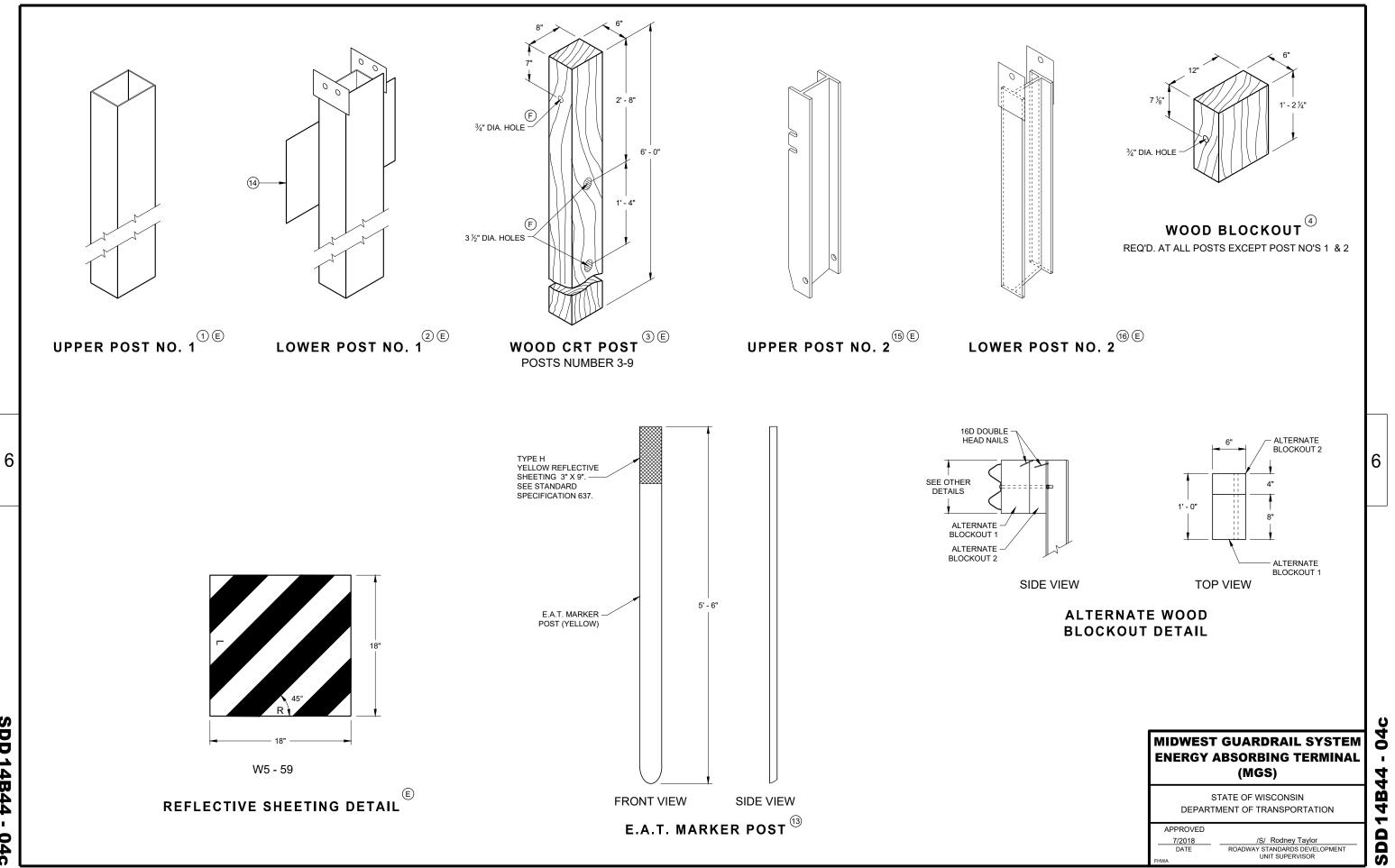
DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
UPPER POST NO. 1 6" X 6" TUBE
LOWER POST NO. 1
WOOD CRT
WOOD BLOCKOUT
PIPE SLEEVE
BEARING PLATE
BCT CABLE ASSEMBLY
ANCHOR CABLE BOX
GROUND STRUT
PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
STANDARD 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

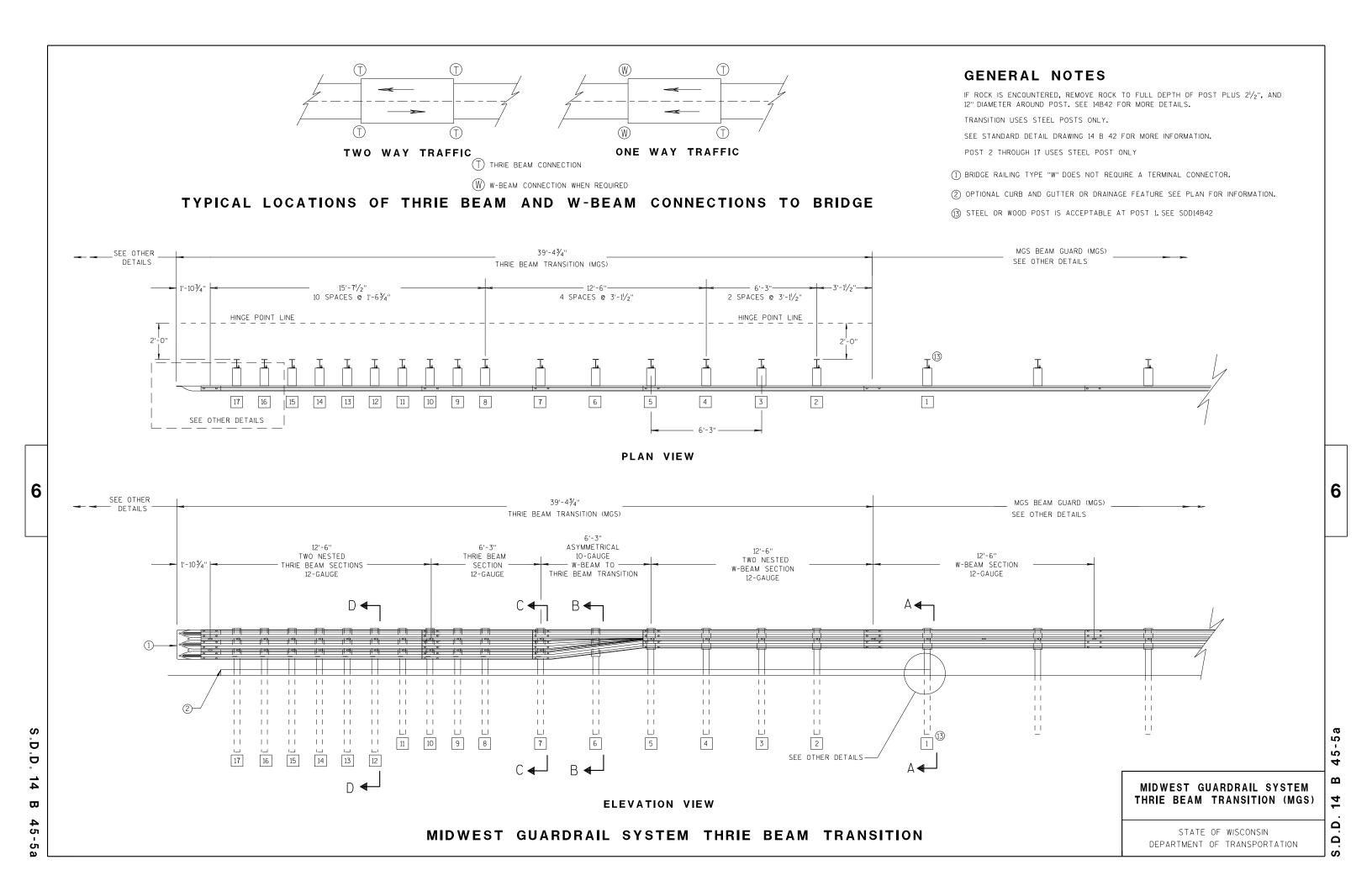
SDD14B44 - 04b

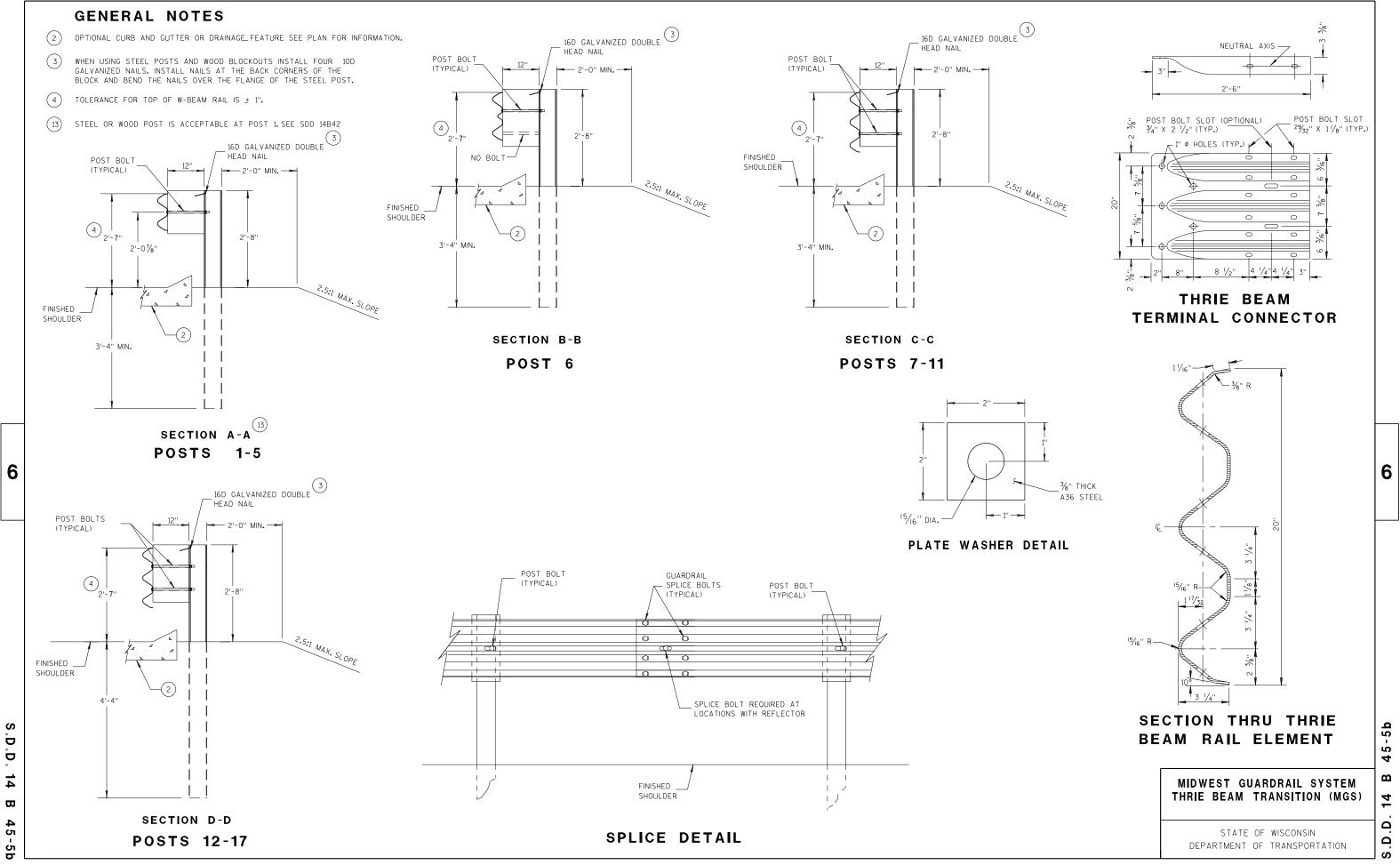
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



SDD 14B44 - 04c



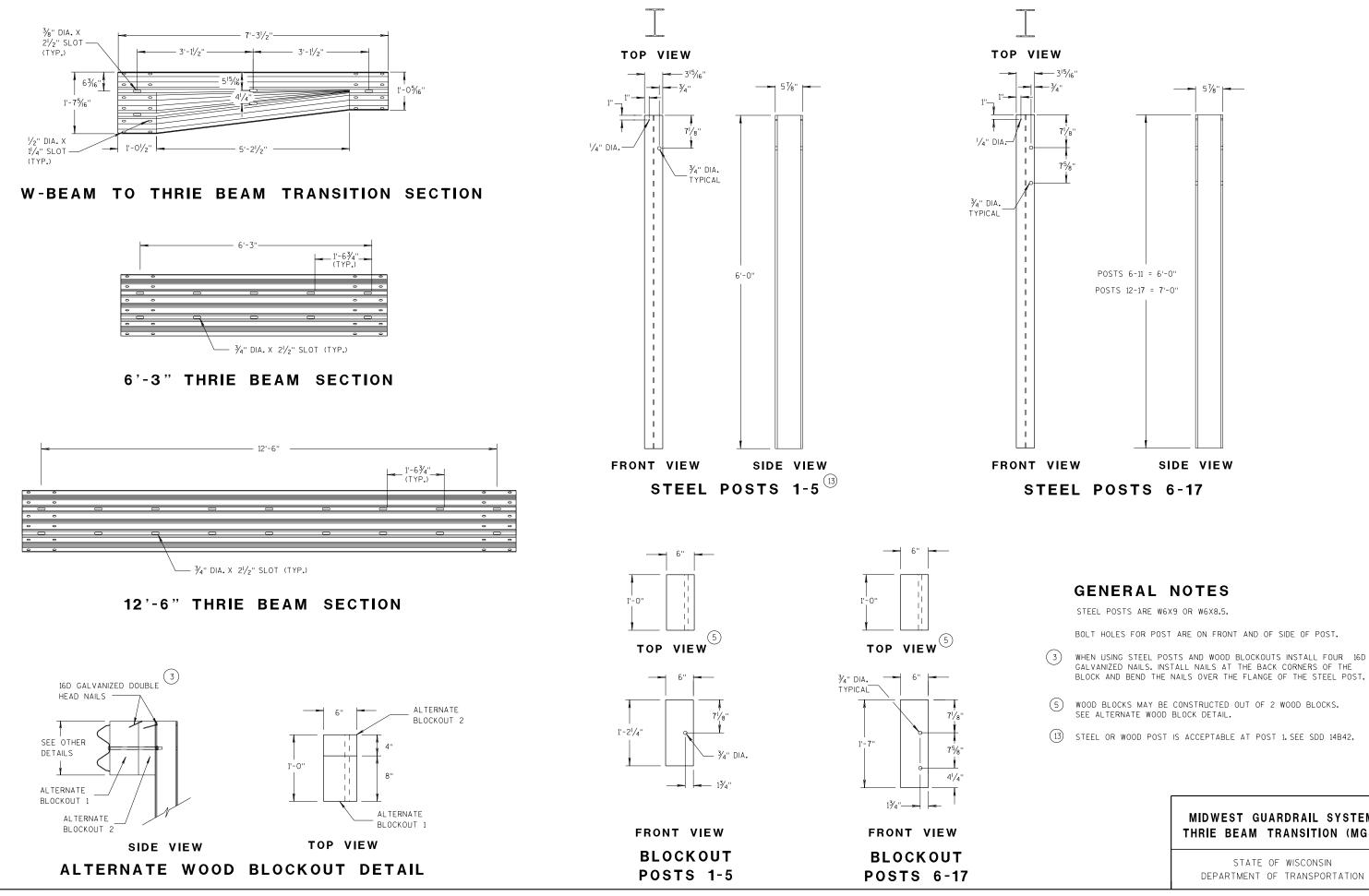


S D D

14

Β

4



S

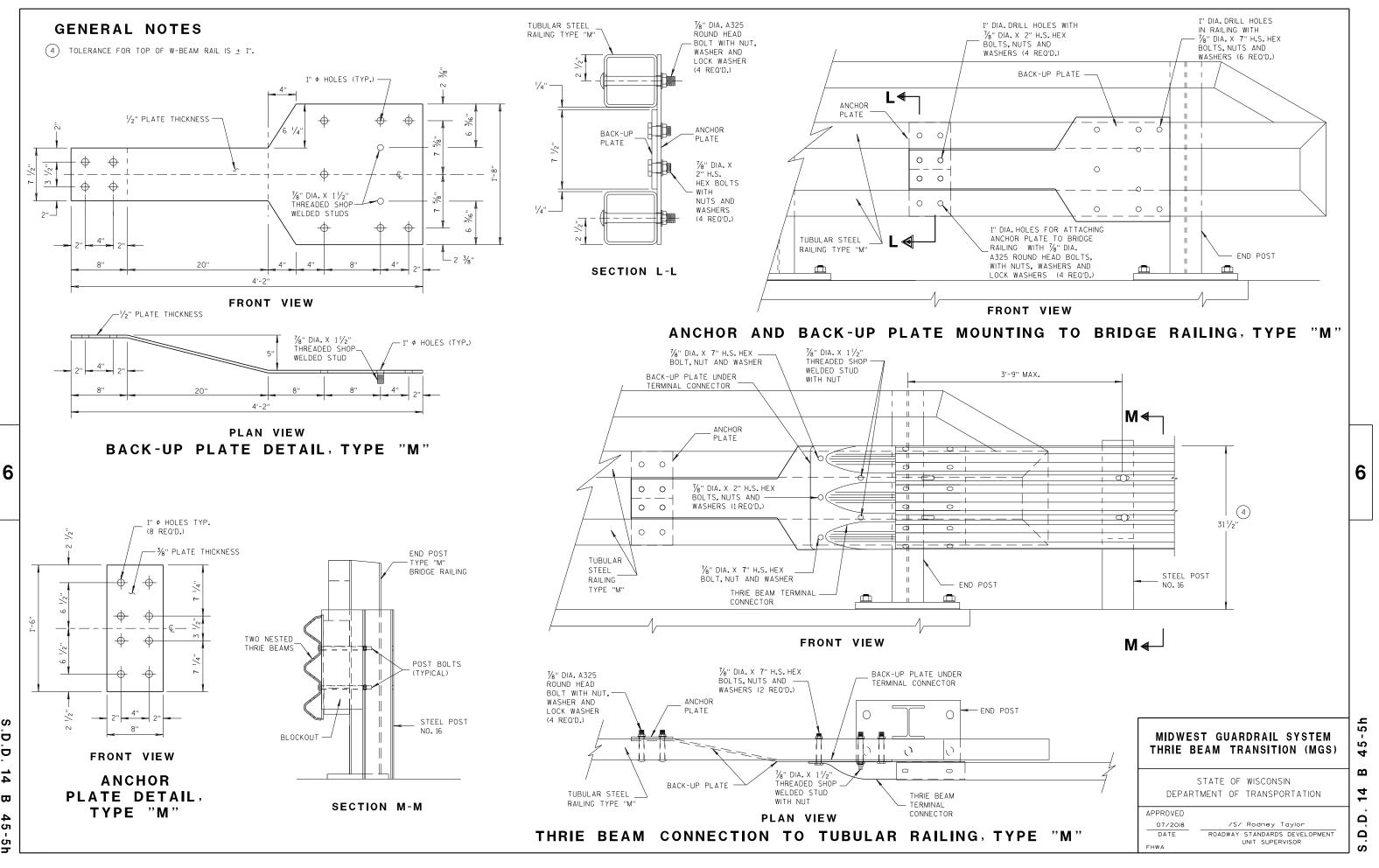
6

45-5c ш 14 Δ Δ

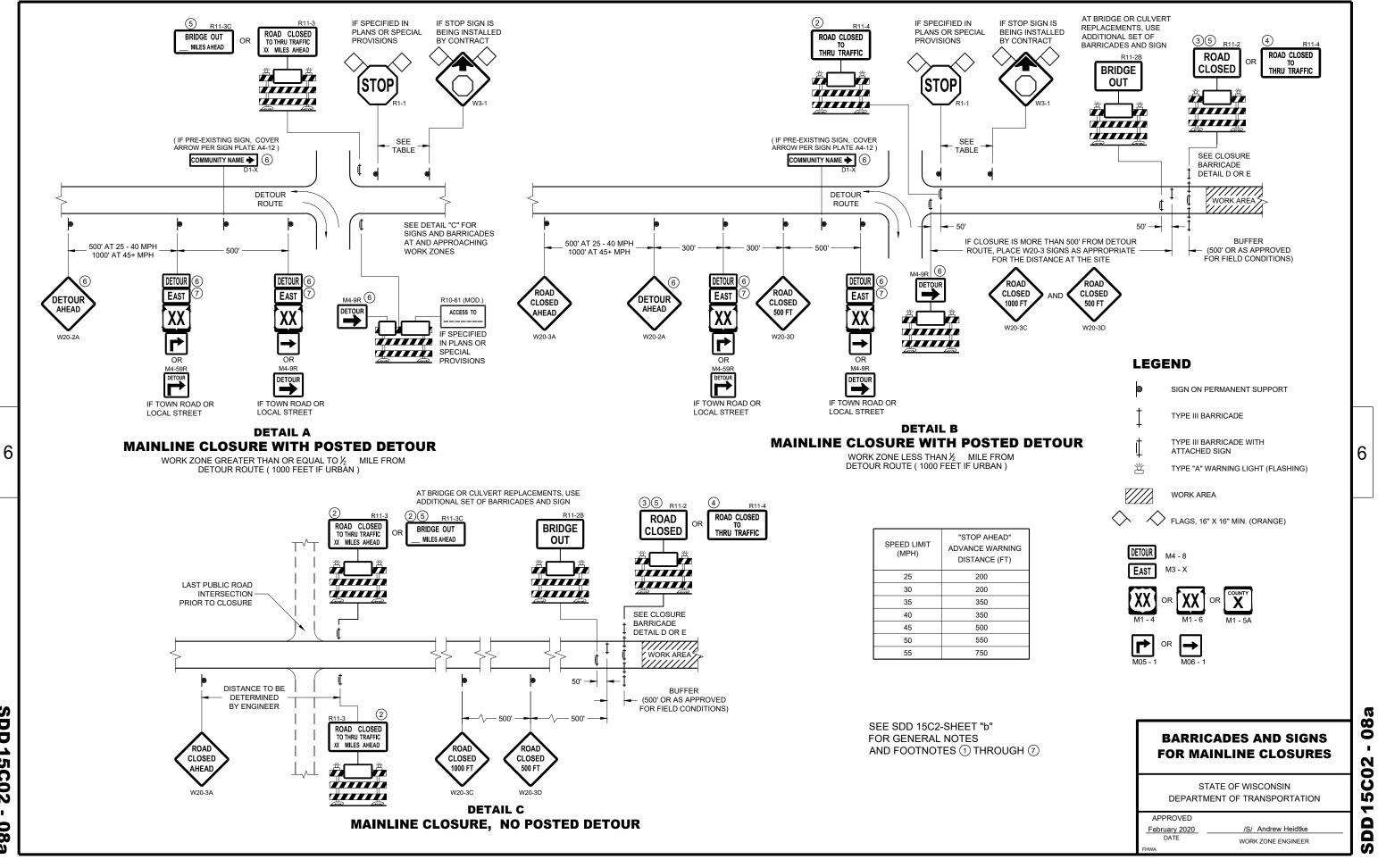
S

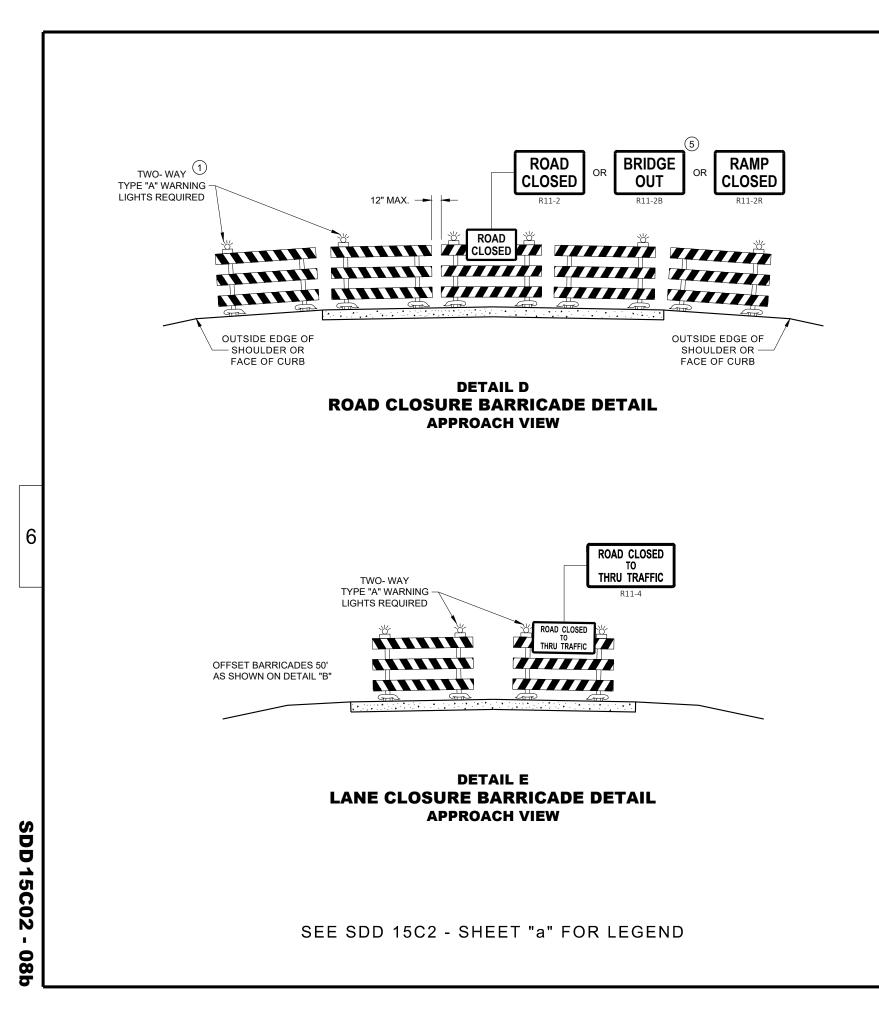
MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



S D Ū 4 ω 4 5 5h





GENERAL NOTES

FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

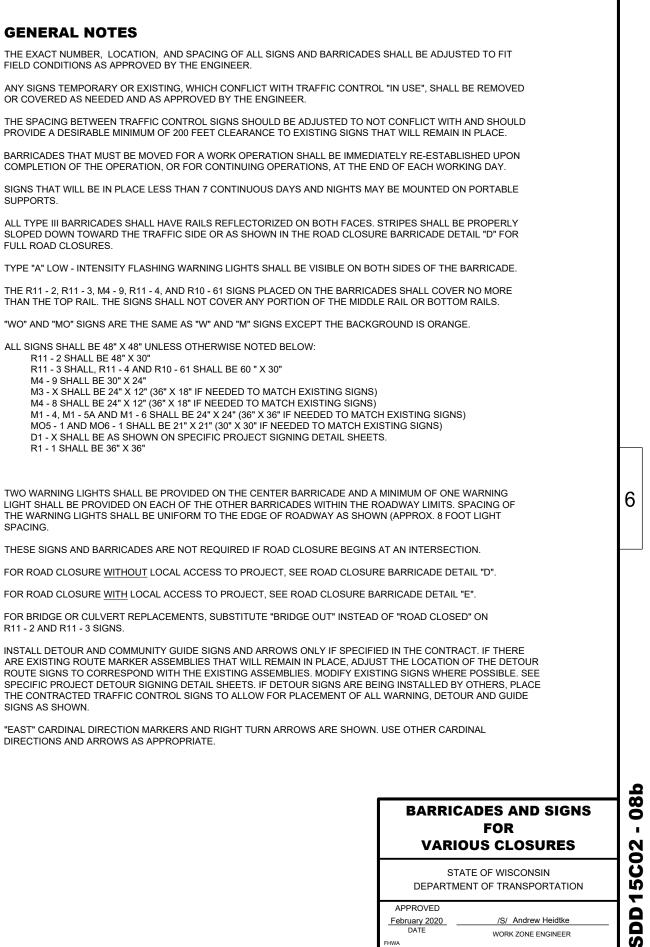
SUPPORTS.

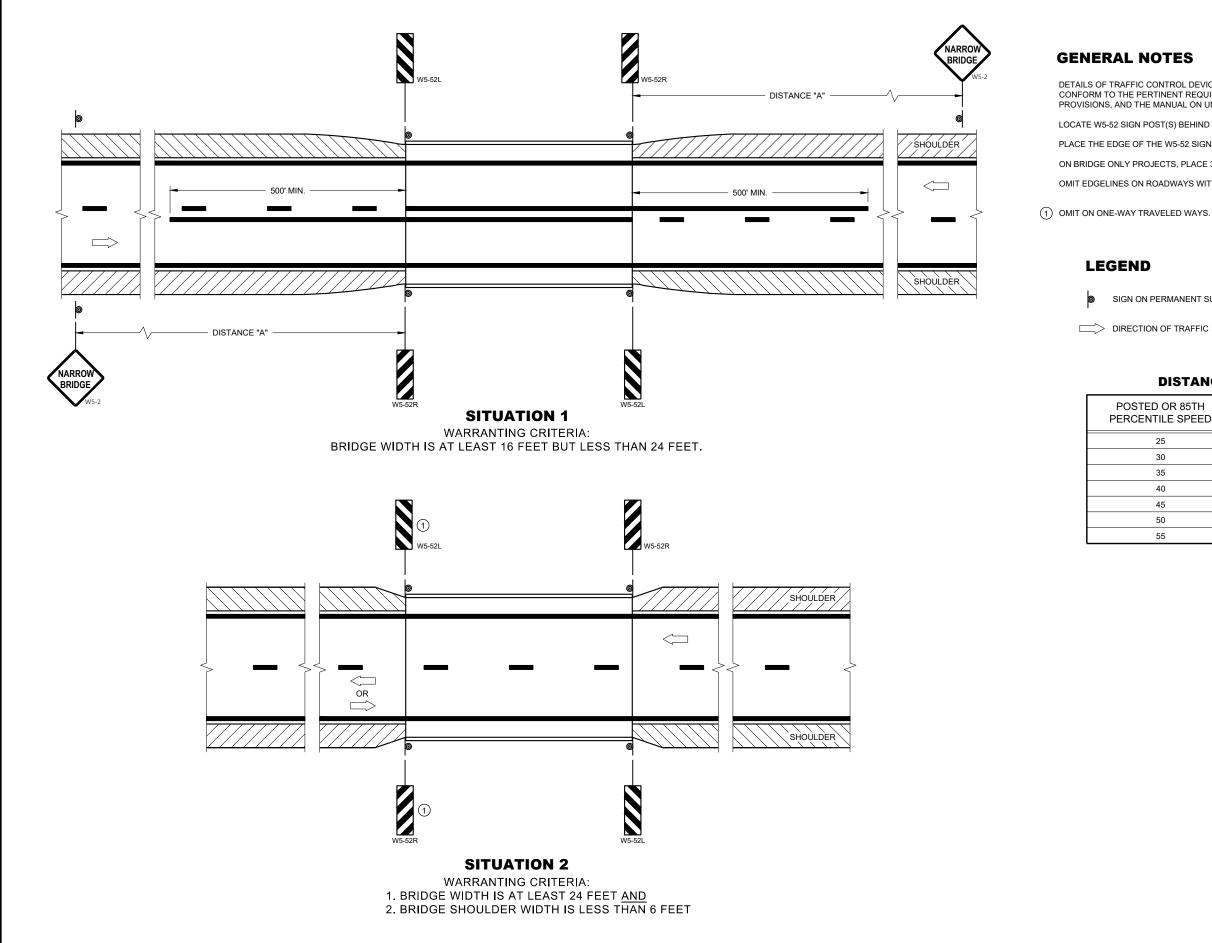
FULL ROAD CLOSURES.

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)
 - 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)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.
- (3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE SIGNS AS SHOWN.
- (7)"EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.





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

0 7 **C**06 Ñ -۵ SD

SIGNING AND MARKING FOR TWO LANE BRIDGES

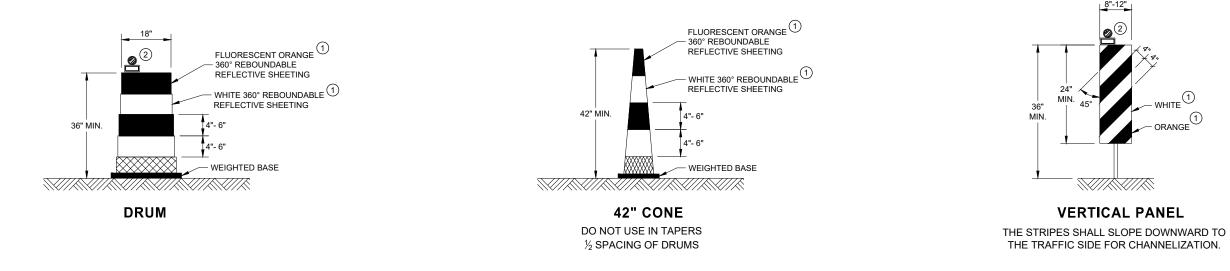
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

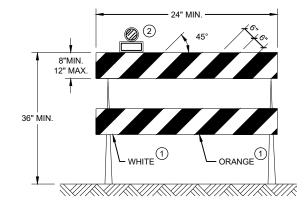
APPROVED May 2022 DATE

/S/ Jeannie Silver STATE SIGNING AND MARKING ENGINEER

GENERAL NOTES

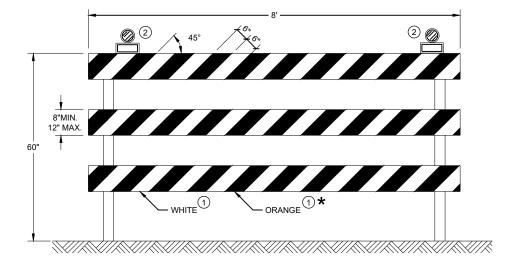
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





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.

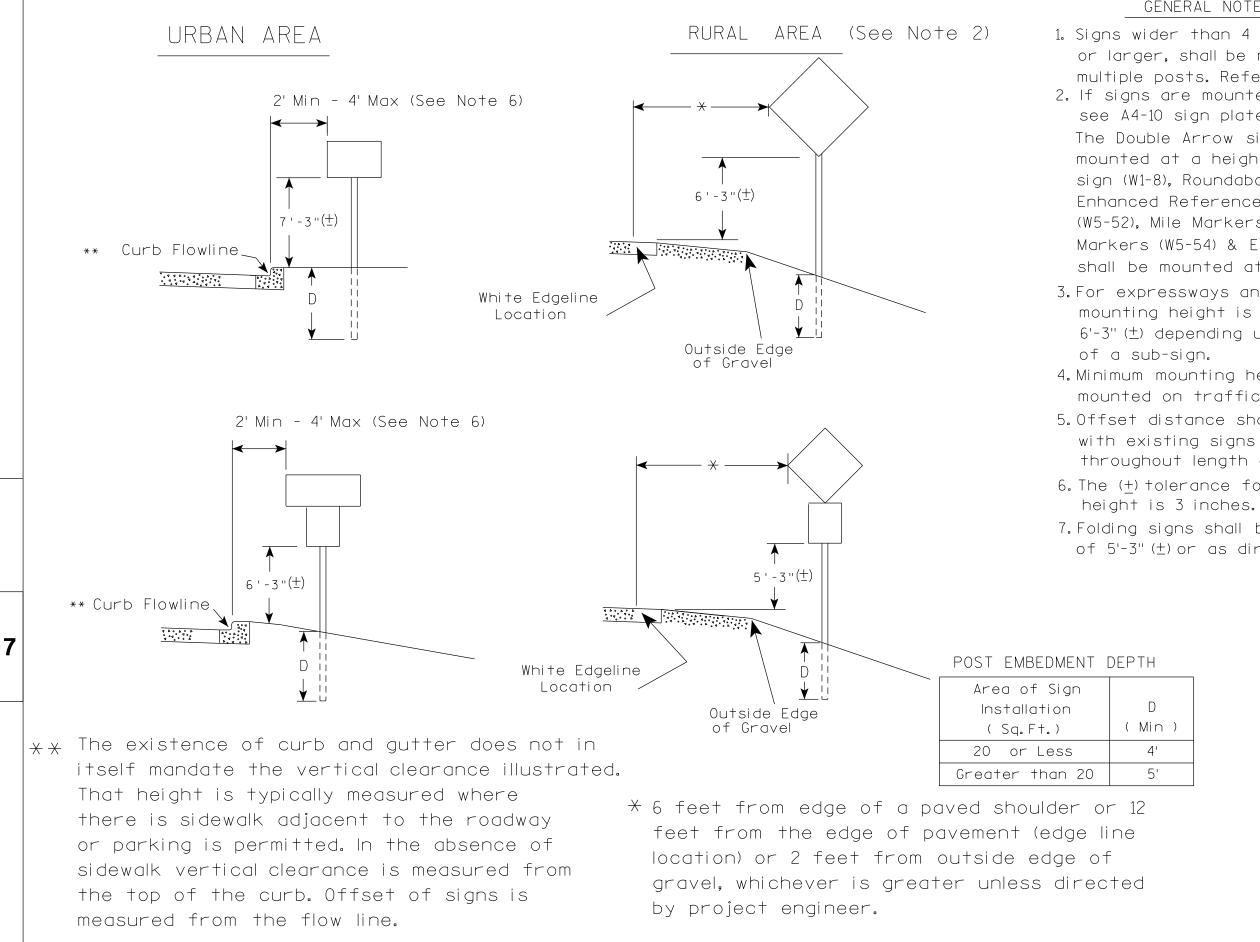
Ω **60** . ~ ~ 0 Ň ~ ົ

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2021 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER

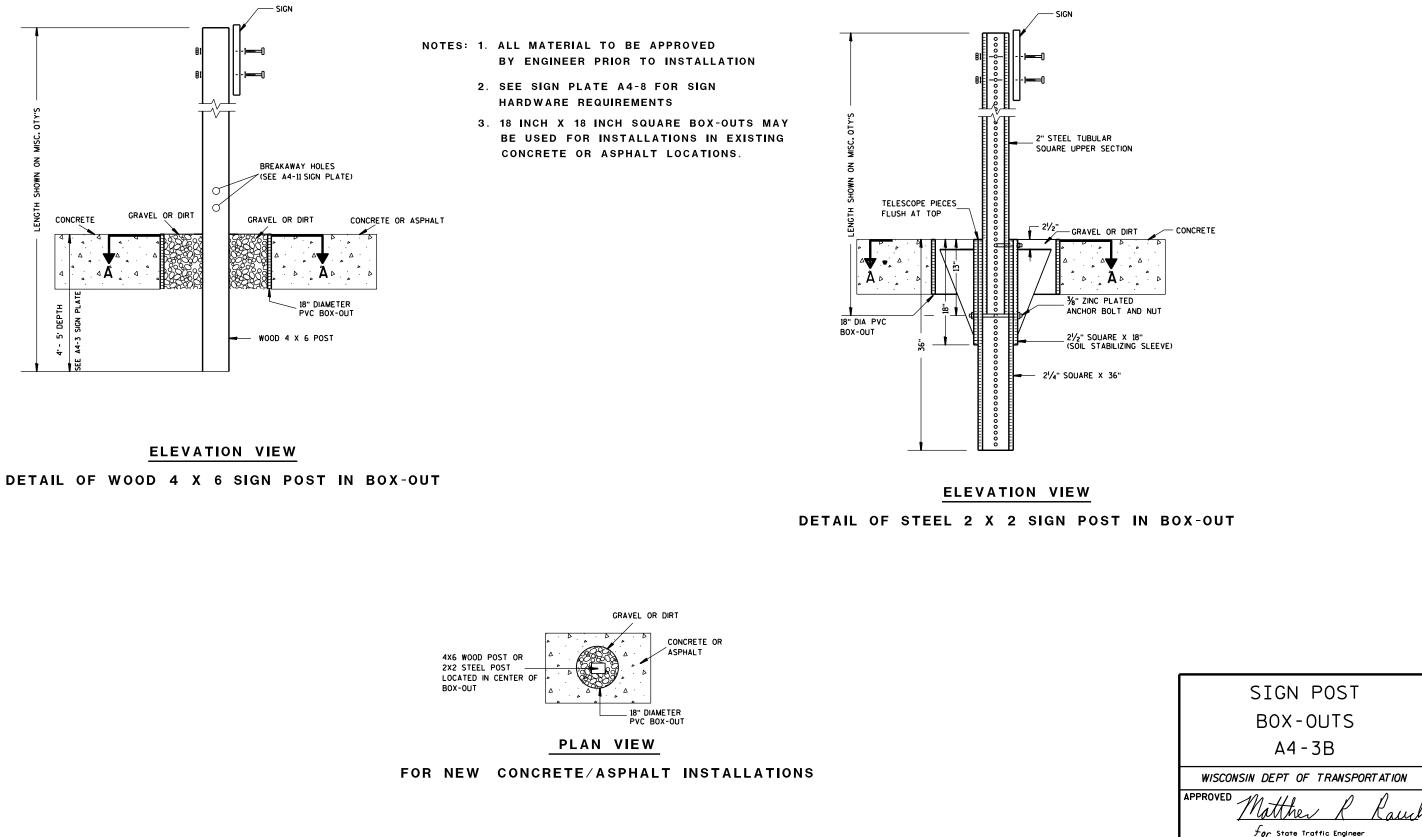


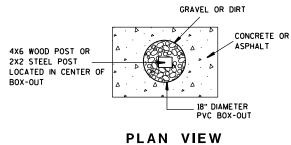
PROJECT NO:	HWY:	COUNTY:			
			DI AT DATE : 43 MAN 0000 4 0	A DI AT DY I IO	DLOT NAME -

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





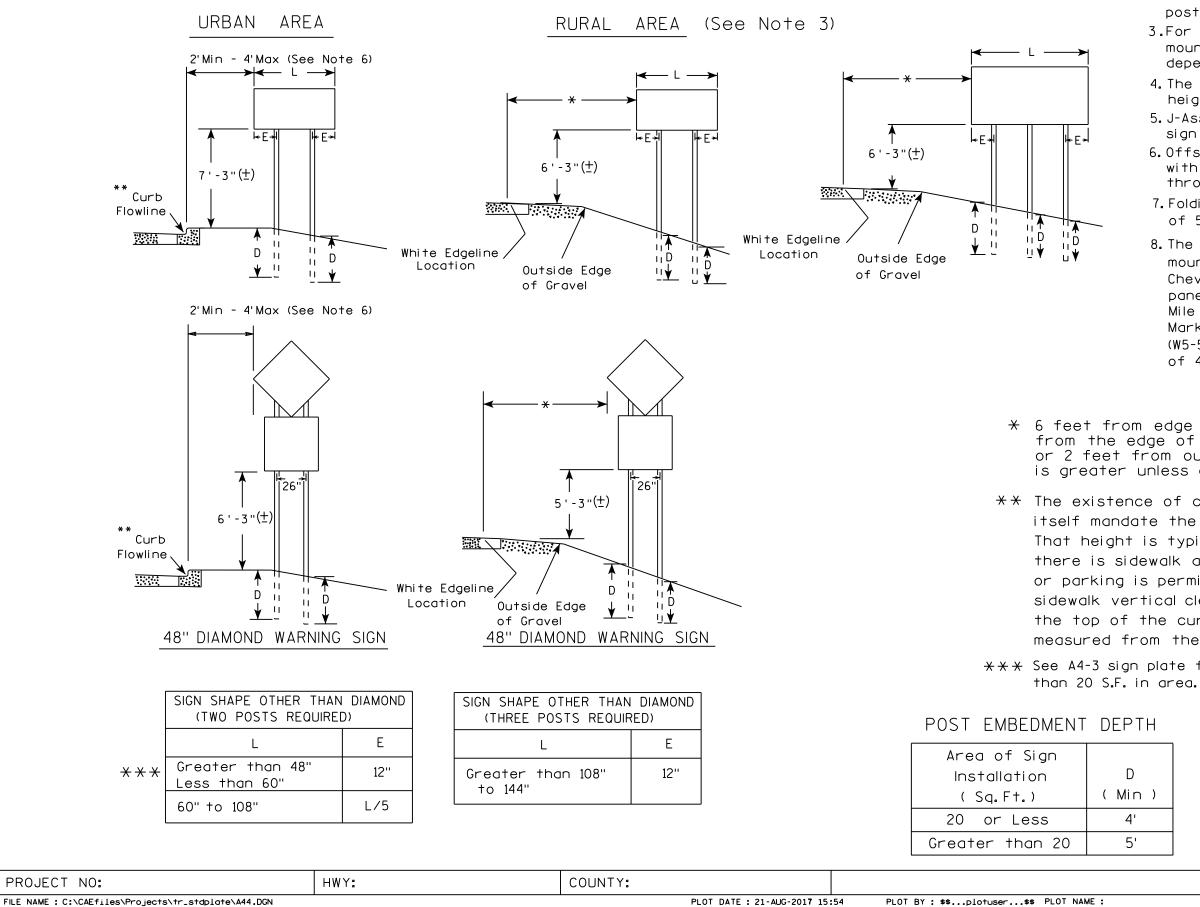
PROJECT NO:	HWY:	COUNTY:				
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN			PLOT DATE : 27-JAN-2014 09:4	8	PLOT BY : mscsja	PLOT NAME :

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.

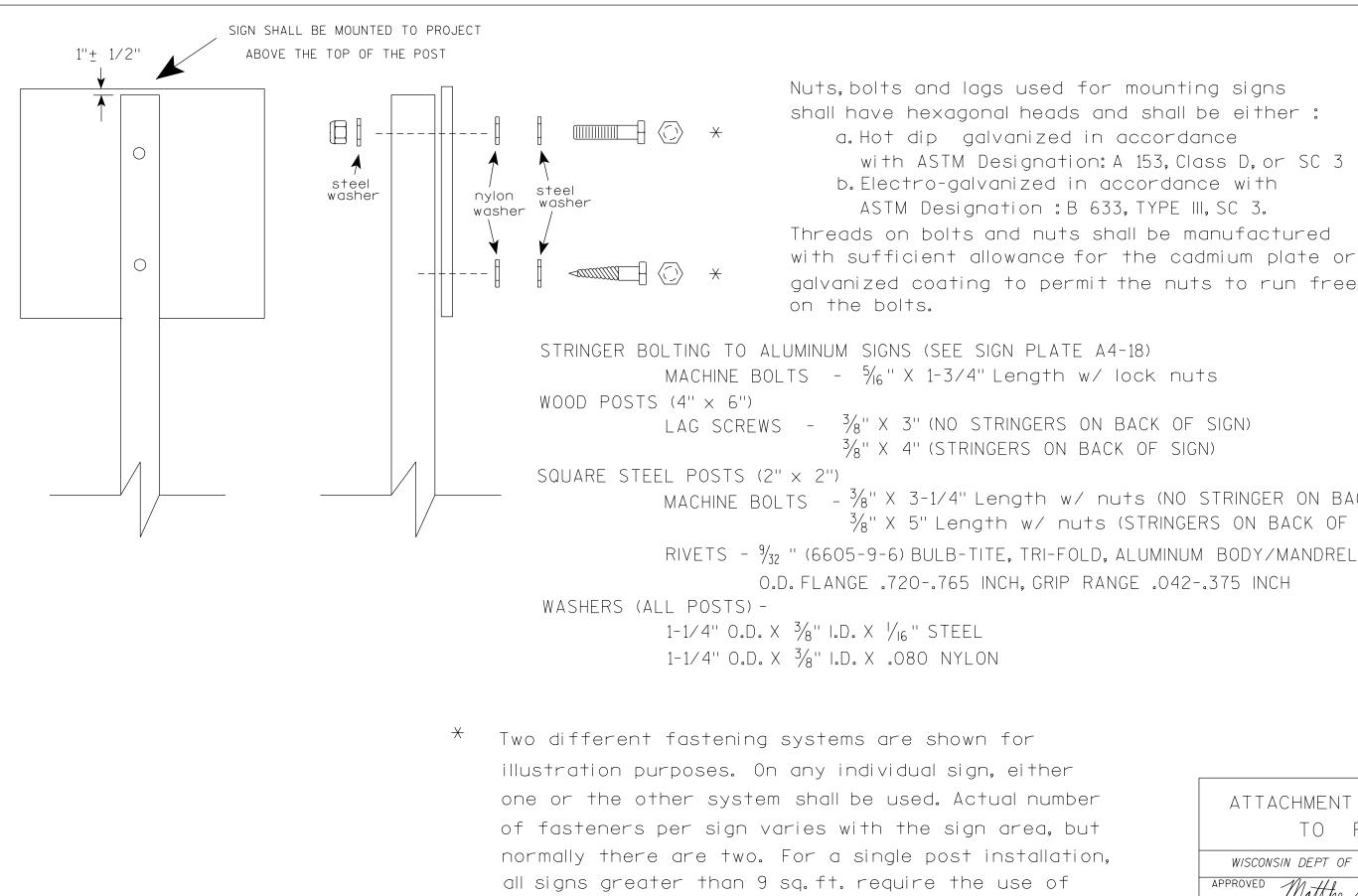
** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs 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	N F + 100 100007+1 00000

PLOT SCALE : 108.188297:1.000000

WISDOT/CADDS SHEET 42



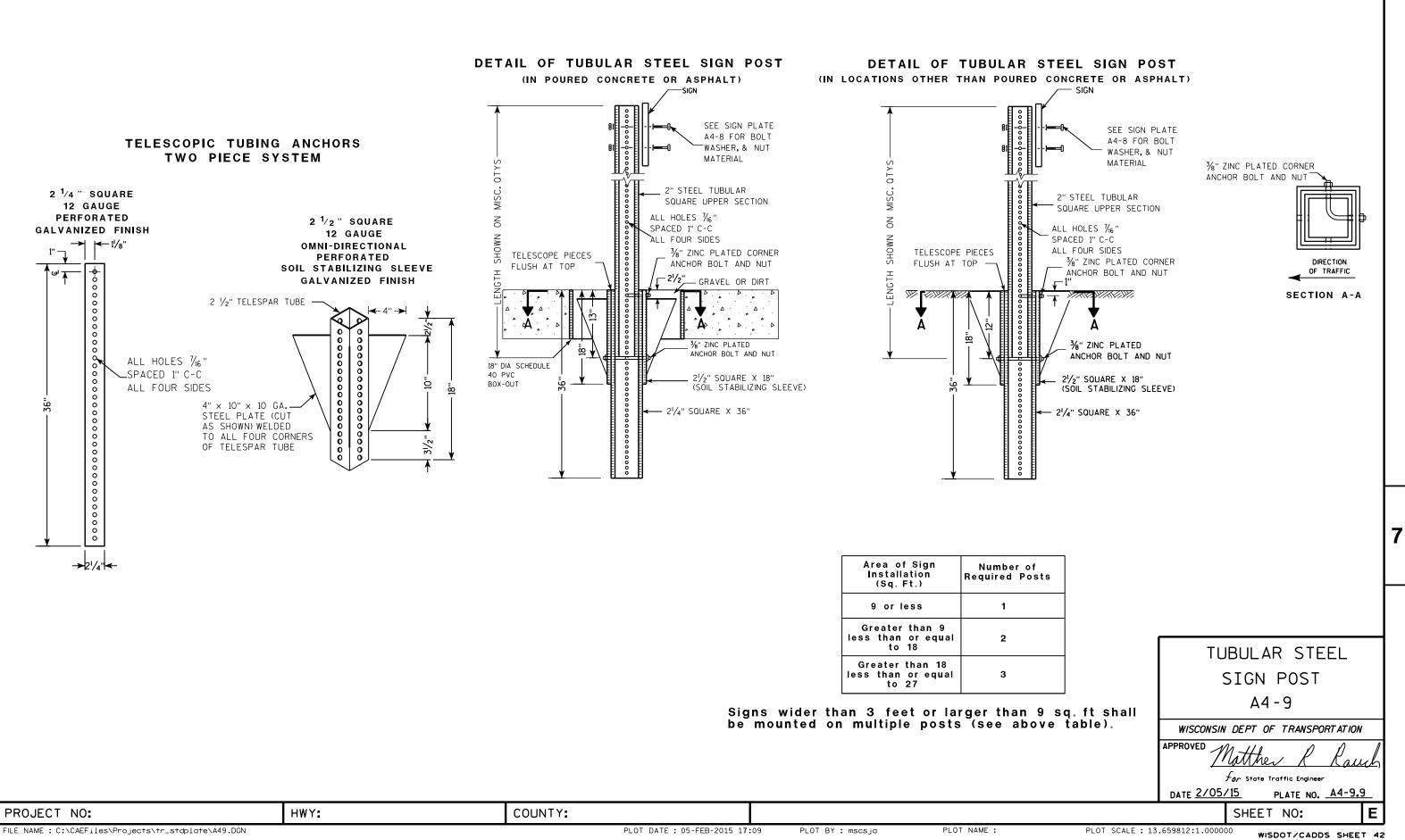
3 fasteners.

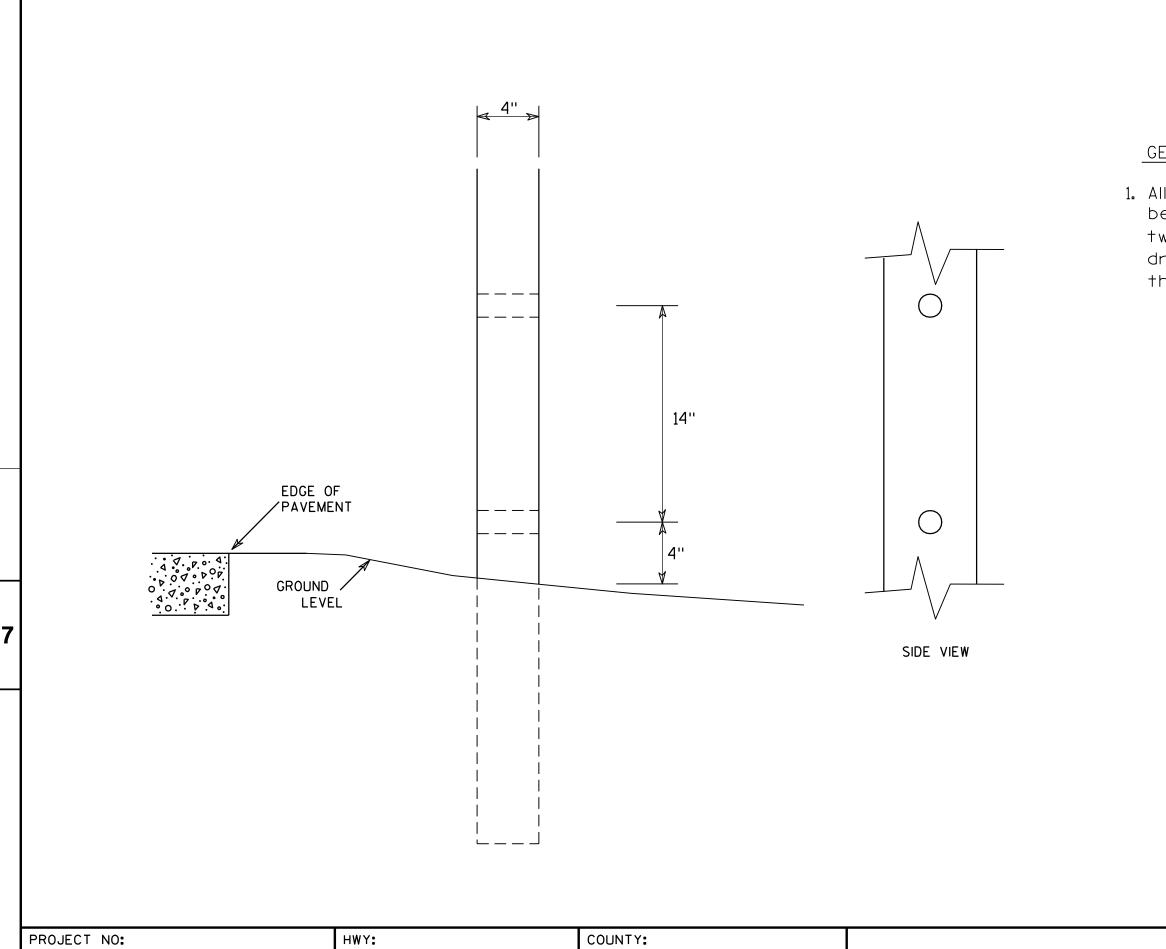
Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either : a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3 b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3. Threads on bolts and nuts shall be manufactured 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 - ³/₈" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

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



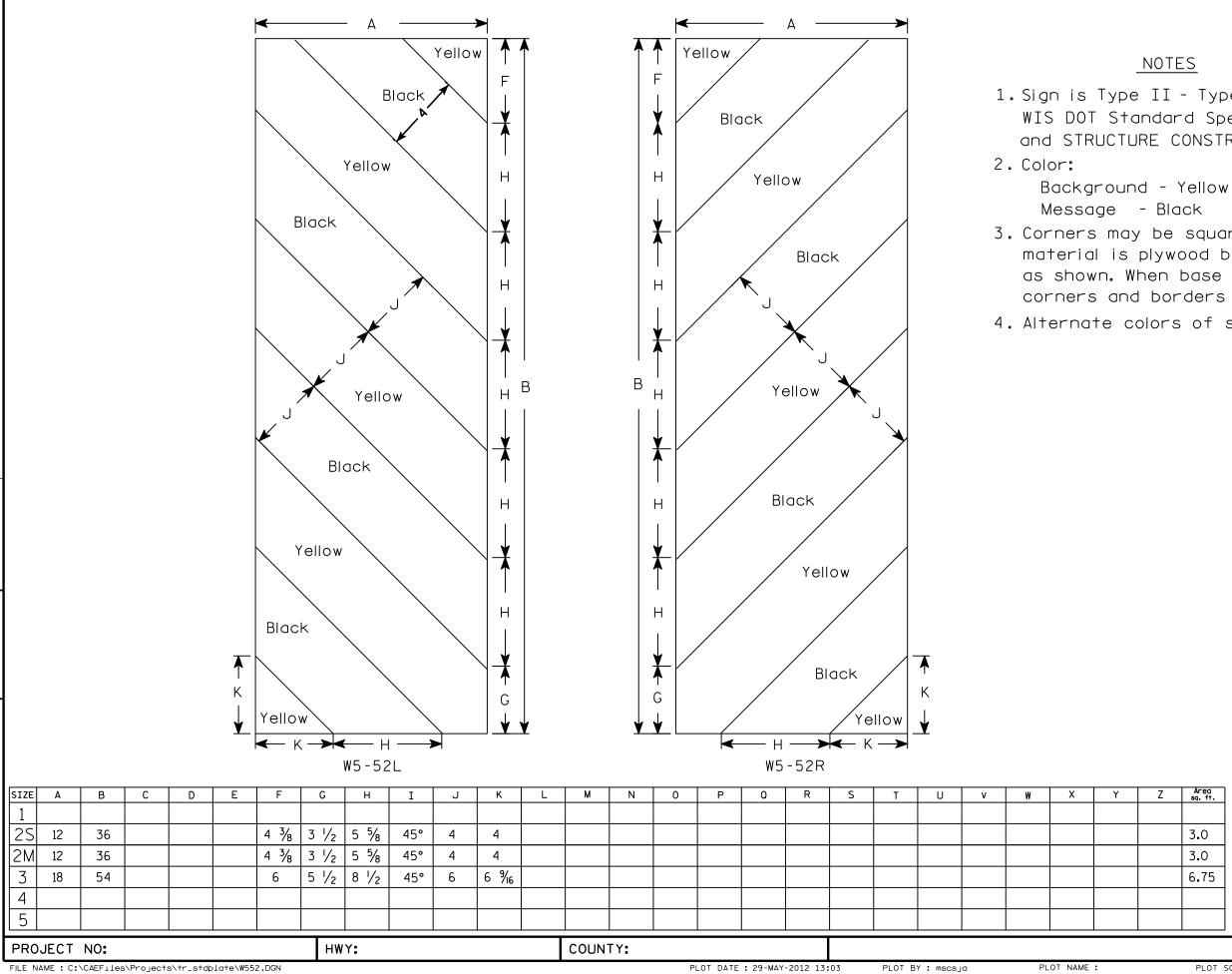


FILE NAME : C:\Users\Projects\tr_stdplate\A411.DGN

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	Xe	5 V	00	DF	POST	-	
	MODIFICATIONS							
	WISCONSIN DEPT OF TRANSPORTATION							
	APPROVE	D	Ine	iter \	Γź	Spang		_
	for State Traffic Engineer							
	DATE 3	/27/9	7	PLA	TE N	D. <u>A4-1</u>	1.2	-
			SF	IEET	N0:			Ε
OT SCALE	T SCALE : 6.207338:1.000000 WISDOT/CADDS SHEET 4					42		



FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W552.DGN

7

PLOT NAME :

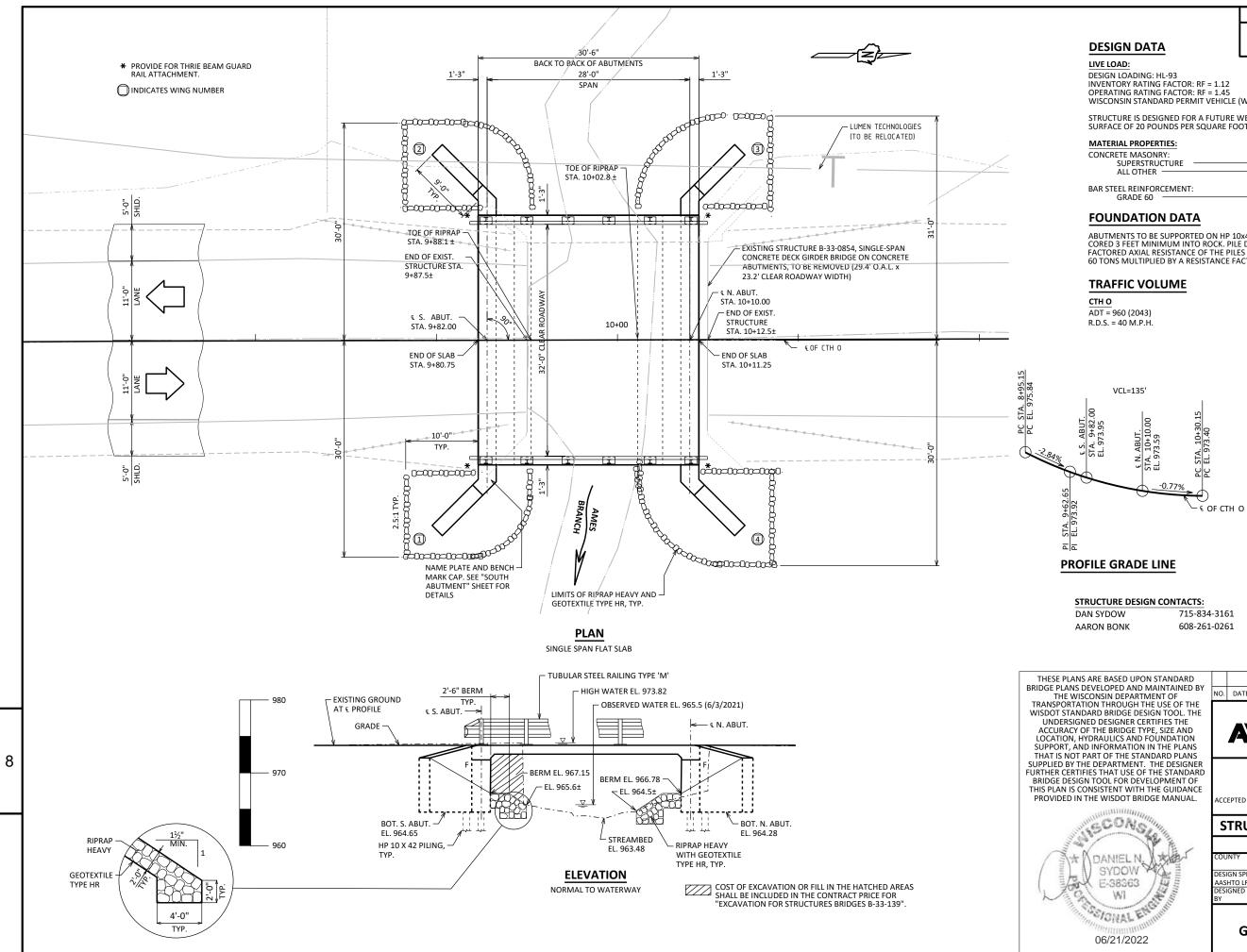
NOTES

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



STATE PROJECT NUMBER
5307-00-73

DESIGN LOADING: HL-93 INVENTORY RATING FACTOR: RF = 1.12 OPERATING RATING FACTOR: RF = 1.45 WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250 (KIPS)

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

ABUTMENTS TO BE SUPPORTED ON HP 10x42 PILING SEATED IN PRE-BORED HOLES CORED 3 FEET MINIMUM INTO ROCK. PILE DRIVING IS NOT REQUIRED. THE FACTORED AXIAL RESISTANCE OF THE PILES IN COMPRESSION USED FOR DESIGN IS 60 TONS MULTIPILED BY A RESISTANCE FACTOR OF 0.5. ESTIMATED 10'-0" LONG.

DAN SYDOW	
AARON BONK	

HYDRAULIC DATA

100 YEAR FREQUENCY

Q₁₀₀ = 1,480 C.F.S. {STRUCTURE 948 C.F.S OVERFLOW 532 C.F.S VEL.100 = 7.5 F.P.S.

f'c = 4,000 P.S.I

f'c = 3,500 P.S.I

fy = 60,000 P.S.I.

HW.₁₀₀ = EL. 973.82 WATERWAY AREA = 126 SQ. FT. DRAINAGE AREA = 2.7 SQ. MI. SCOUR CRITICAL CODE = 5

2 YEAR FREQUENCY

Q₂ = 340 C.F.S. VEL.2 = 5.1 F.P.S. HW.₂ = EL. 970.36

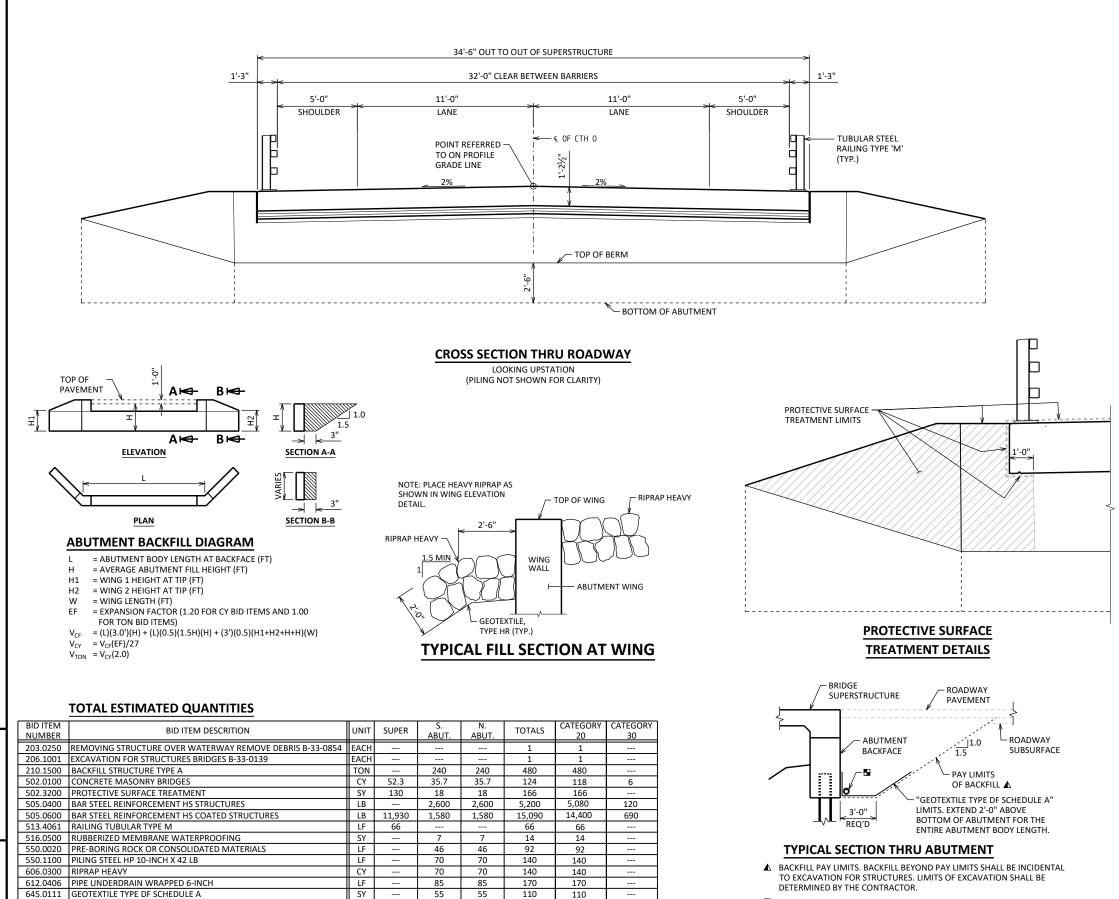
ROADWAY OVERTOPPING FREQUENCY

Q_{9.7} = 810 C.F.S. HW_{9.7} = EL. 972.94 FREQUENCY = 10 YEARS

LIST OF DRAWINGS

- GENERAL PLAN
- CROSS SECTION & QUANTITIES
- SUBSURFACE EXPLORATION
- SOUTH ABUTMENT
- SOUTH ABUTMENT DETAILS
- NORTH ABUTMENT
- NORTH ABUTMENT DETAILS SUPERSTRUCTURE
- SUPERSTRUCTURE DETAILS
- 10. TUBULAR STEEL RAILING TYPE 'M'

			-							
ARE BASED UPON STANDARD EVELOPED AND MAINTAINED BY CONSIN DEPARTMENT OF	NO.	DATE		RE	VISION			BY		
ION THROUGH THE USE OF THE WARD BRIDGE DESIGN TOOL. THE ED DESIGNER CERTIFIES THE F THE BRIDGE TYPE, SIZE AND /DRAULICS AND FOUNDATION D INFORMATION IN THE PLANS WART OF THE STANDARD PLANS		ORIGINAL PLANS PREPARED BY 3433 Oakwood Hills Parkway Eau Claire, WI 54701 www.AyresAssociates.com								
E DEPARTMENT. THE DESIGNER IES THAT USE OF THE STANDARD N TOOL FOR DEVELOPMENT OF DNSISTENT WITH THE GUIDANCE THE WISDOT BRIDGE MANUAL.	ACC	EPTED _	Á	STATE OF RTMENT OF RUCTURES DE			/01/ DAT		8	
SCONSU	S	TRU	CTUR	E B-3	3-139					
V E-			СТ	H O OVER	AMES BR	ANCH				
DANIEL N.				AFAYETTE	TOWN/ C I	TY/VILLAGE-	SEY	/MOUR		
E-38363 WI	AAS	GNED		ESIGN SPECI GNED JCK	DRAWN	ZSS CK		DNS		
CONAL ENGINEER	SHEET 1 OF 10)	SCALE	
									П	



SY

SIZE

140

280

1/2", 3/4'

280

8

645.0120 GEOTEXTILE TYPE HR

FILLER

NON-BID ITEMS

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



GENERAL NOTES

STATE PROJECT NUMBER

5307-00-73

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.

BEVEL EXPOSED EDGES OF CONCRETE ³/₄" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES B-33-0139" SHALL BE THE EXISTING GROUNDLINE.

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

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 QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

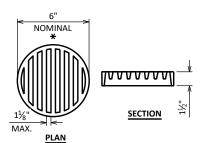
THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS.

AT ABUTMENTS, CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO ENTIRE EXPOSED TOP OF SLAB, INCLUDING THE SLAB EDGE AND 1'-0" UNDER THE SLAB, THE TOP AND EXTERIOR EXPOSED FACE OF WINGS AND FRONT FACE OF ABUTMENT TO 1'-0" PAST THE EDGE OF SLAB.

BENCH MARK

NO.	STATION	OFFSET	DESCRIPTION	ELEV.
BM 1.	10+13	14' LT	CHIS. SQUARE	972.86



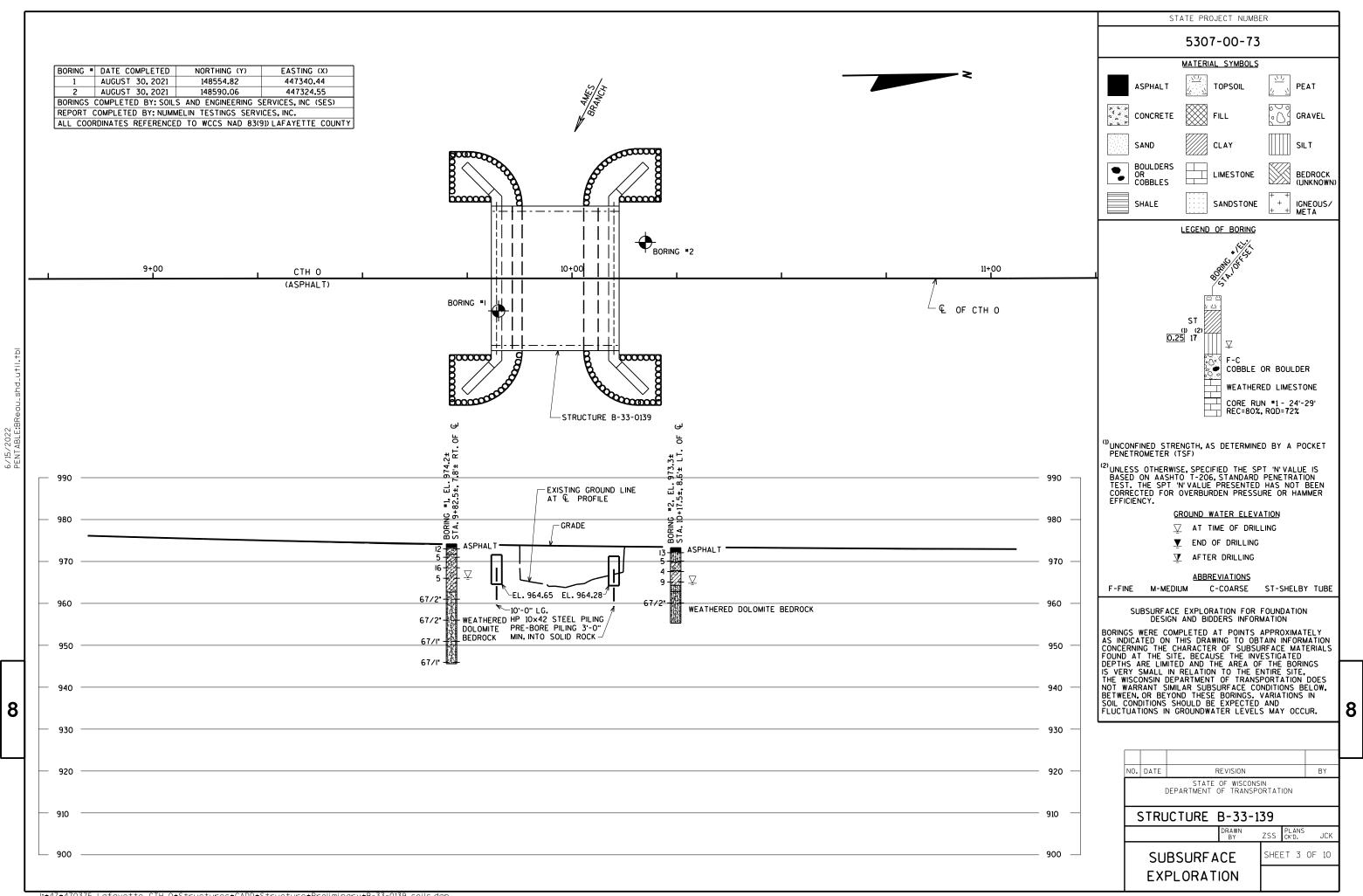
RODENT SHIELD DETAIL

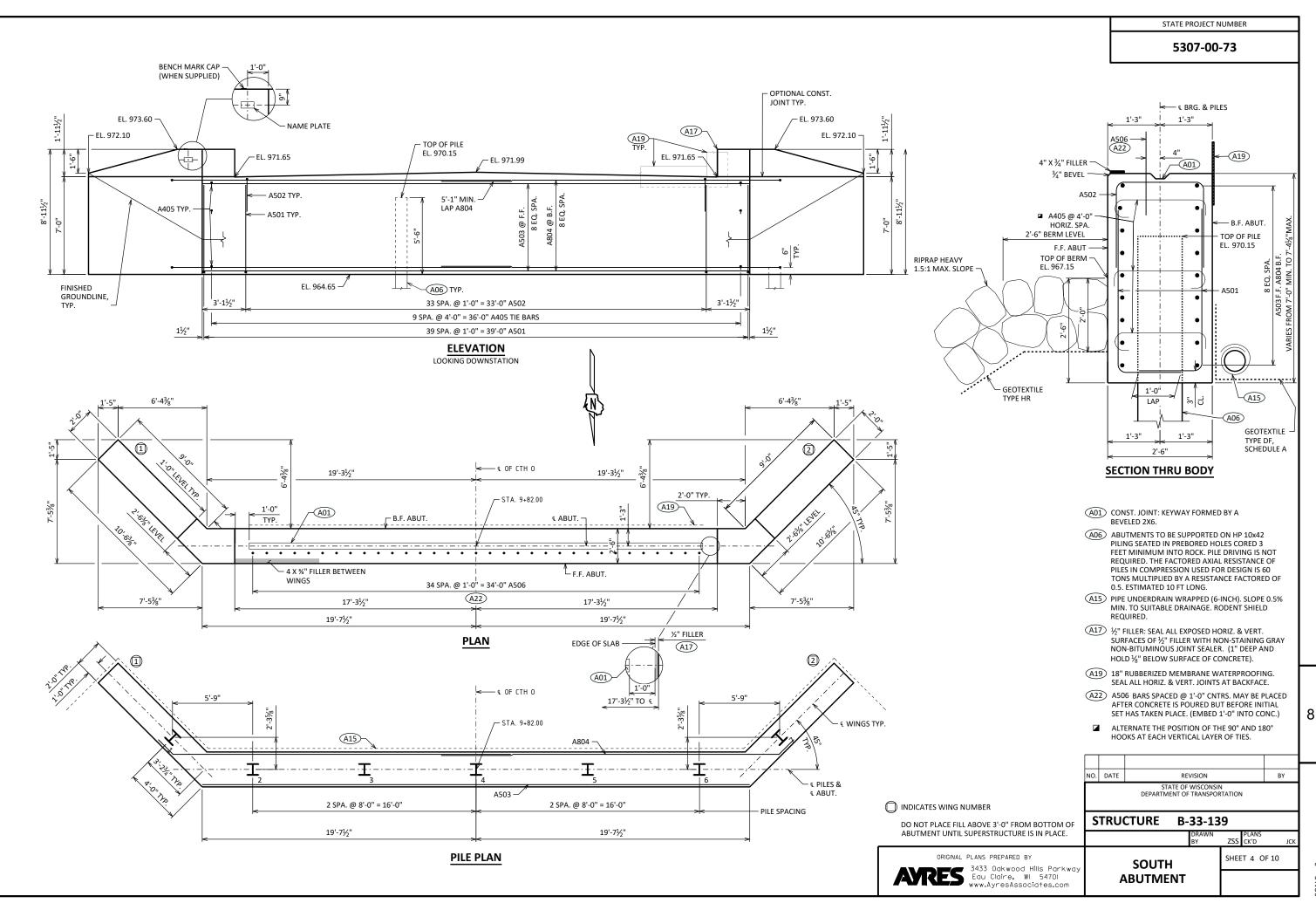
* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL

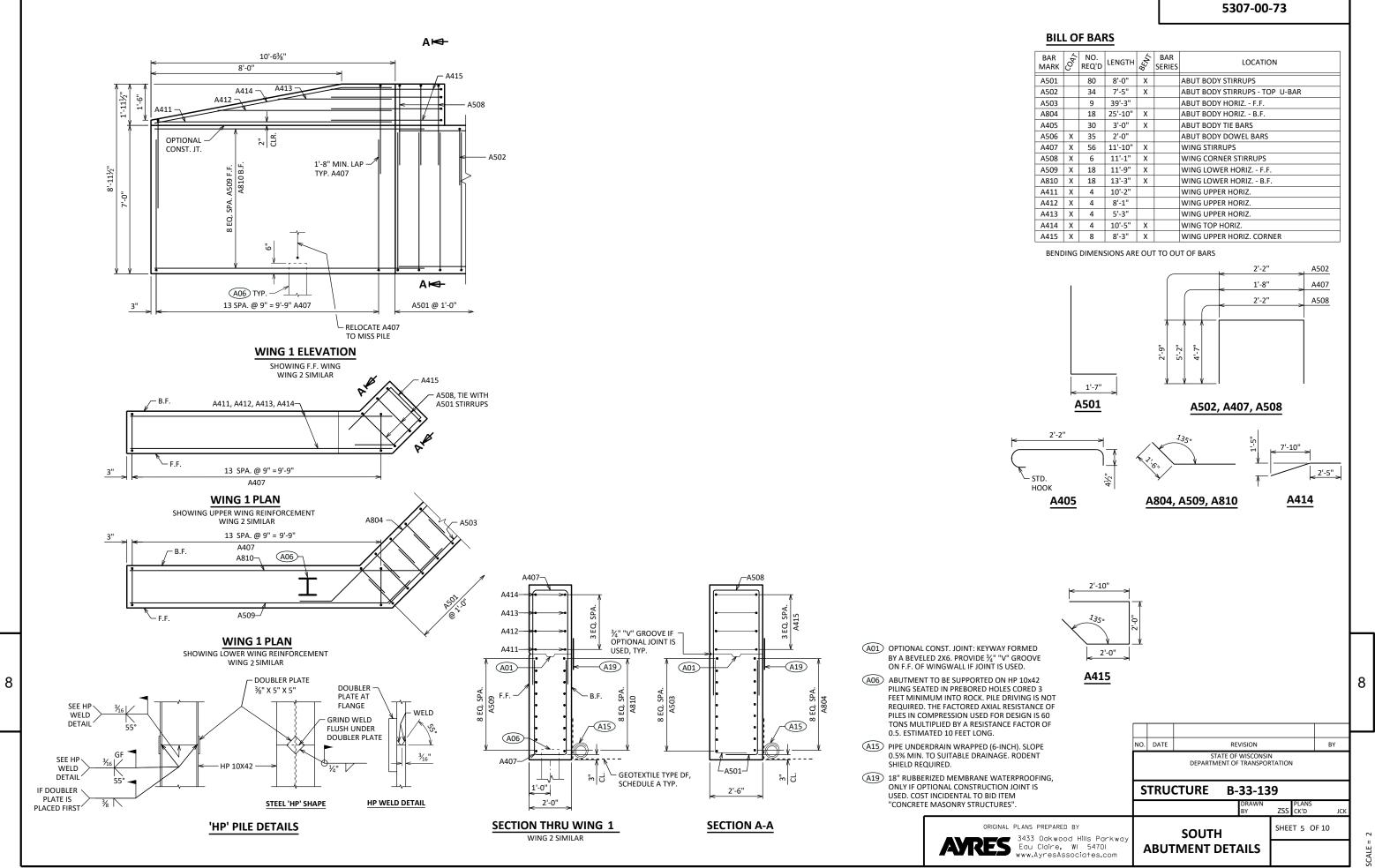
THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAING WRAPPED 6-INCH".

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

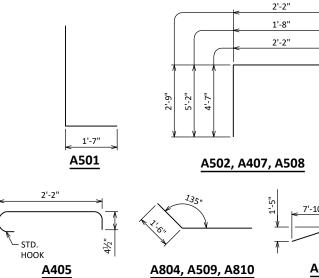
			-						
	NO.	DATE		REVISION		ВҮ			
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION								
	STRUCTURE B-33-139								
				DRAWN BY	PLANS ZSS CK'D	JCK			
AL PLANS PREPARED BY		CR	OSS SEC	TION	SHEET 2 OF	10			
5 3433 Oakwood Hills Parkway Eau Claire, WI 54701 www.AyresAssociates.com			QUANT						

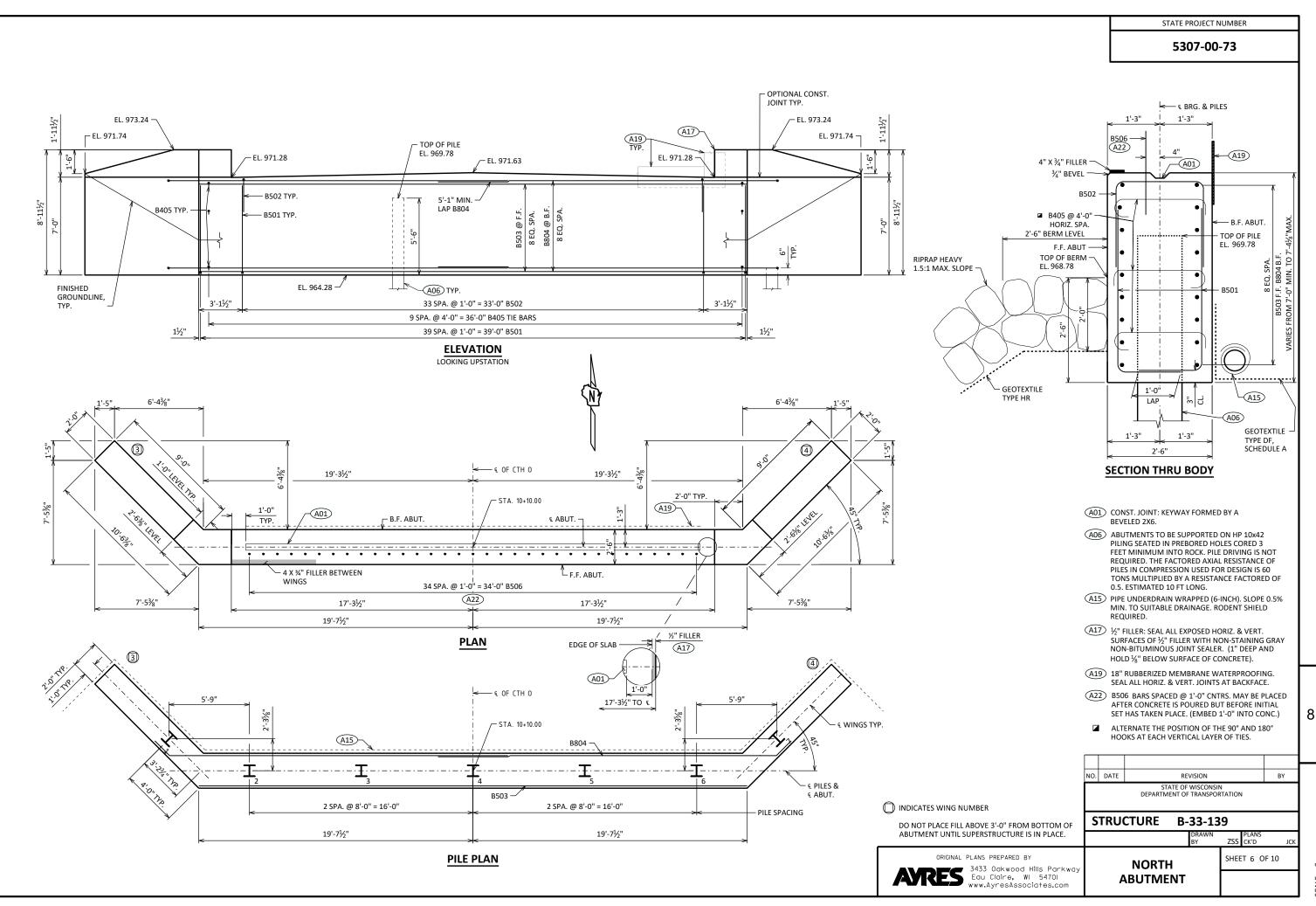


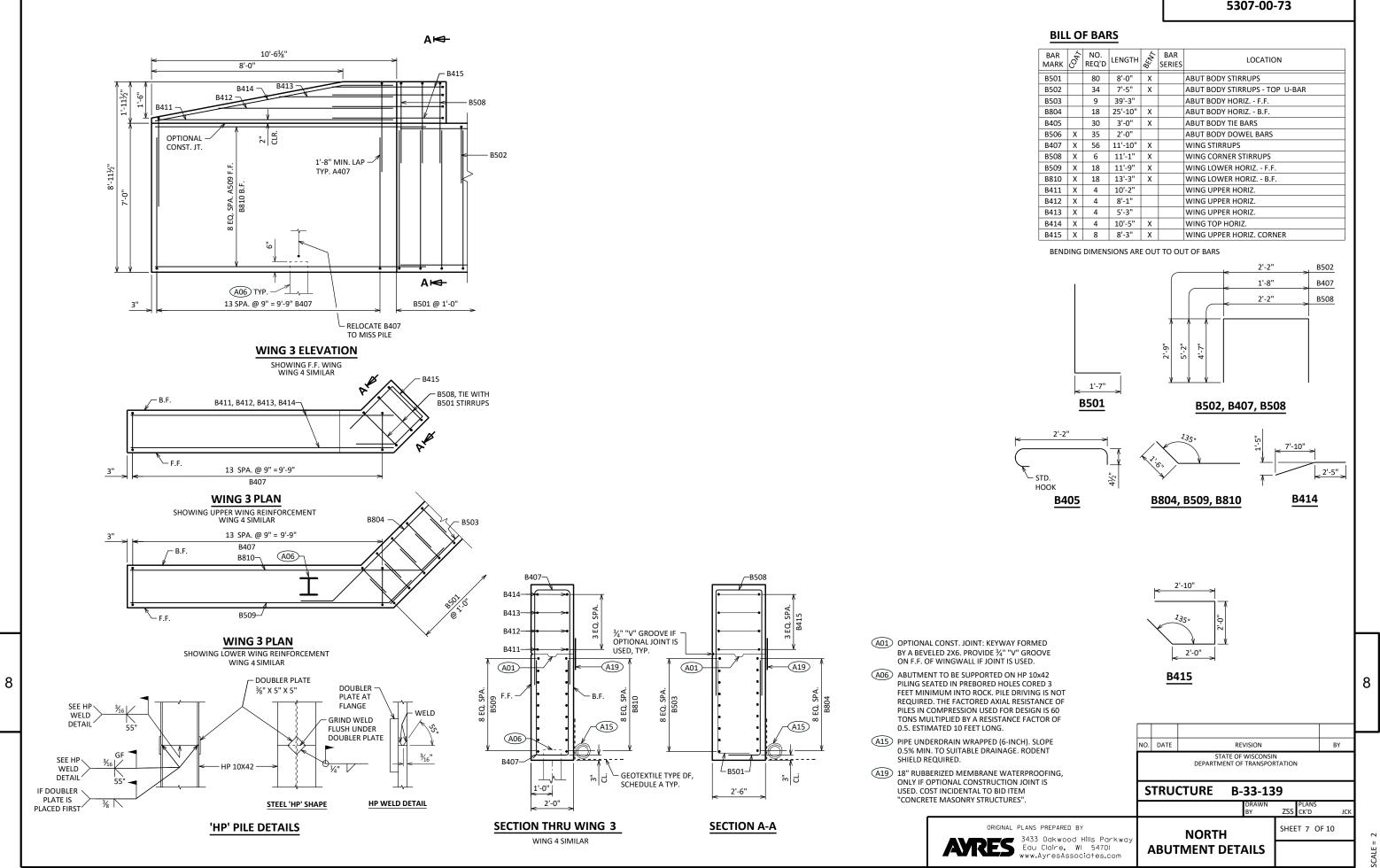




BAR MARK	CO4>	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
A501		80	8'-0"	х		ABUT BODY STIRRUPS
A502		34	7'-5"	Х		ABUT BODY STIRRUPS - TOP U-BAR
A503		9	39'-3"			ABUT BODY HORIZ F.F.
A804		18	25'-10"	Х		ABUT BODY HORIZ B.F.
A405		30	3'-0"	Х		ABUT BODY TIE BARS
A506	Х	35	2'-0"			ABUT BODY DOWEL BARS
A407	Х	56	11'-10"	Х		WING STIRRUPS
A508	Х	6	11'-1"	Х		WING CORNER STIRRUPS
A509	Х	18	11'-9"	Х		WING LOWER HORIZ F.F.
A810	Х	18	13'-3"	Х		WING LOWER HORIZ B.F.
A411	Х	4	10'-2"			WING UPPER HORIZ.
A412	Х	4	8'-1"			WING UPPER HORIZ.
A413	Х	4	5'-3"			WING UPPER HORIZ.
A414	Х	4	10'-5"	Х		WING TOP HORIZ.
A415	Х	8	8'-3"	х		WING UPPER HORIZ. CORNER

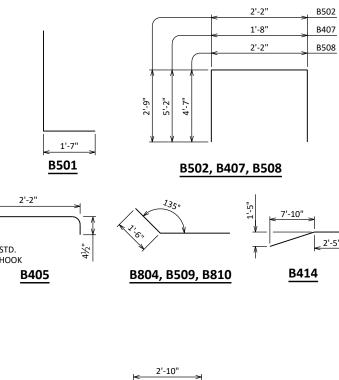


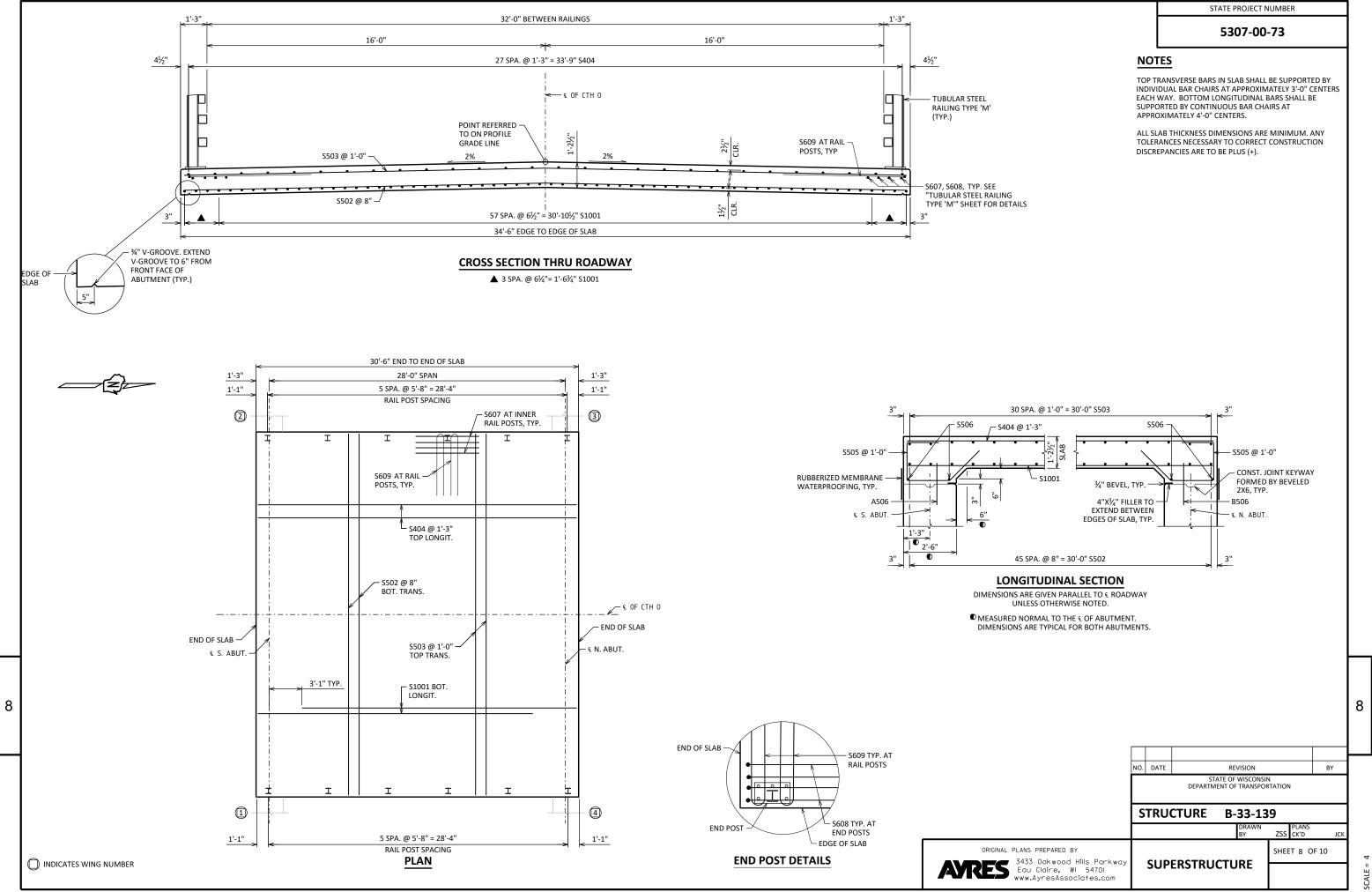




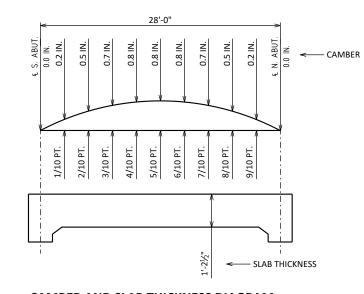
5307-00-73

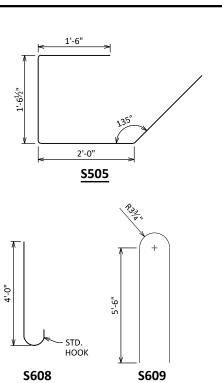
BAR MARK	CO4>	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
B501		80	8'-0"	Х		ABUT BODY STIRRUPS
B502		34	7'-5"	Х		ABUT BODY STIRRUPS - TOP U-BAR
B503		9	39'-3"			ABUT BODY HORIZ F.F.
B804		18	25'-10"	Х		ABUT BODY HORIZ B.F.
B405		30	3'-0"	Х		ABUT BODY TIE BARS
B506	Х	35	2'-0"			ABUT BODY DOWEL BARS
B407	Х	56	11'-10"	Х		WING STIRRUPS
B508	Х	6	11'-1"	Х		WING CORNER STIRRUPS
B509	Х	18	11'-9"	Х		WING LOWER HORIZ F.F.
B810	Х	18	13'-3"	Х		WING LOWER HORIZ B.F.
B411	Х	4	10'-2"			WING UPPER HORIZ.
B412	Х	4	8'-1"			WING UPPER HORIZ.
B413	Х	4	5'-3"			WING UPPER HORIZ.
B414	Х	4	10'-5"	Х		WING TOP HORIZ.
B415	Х	8	8'-3"	Х		WING UPPER HORIZ. CORNER











CAMBER AND SLAB THICKNESS DIAGRAM

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS. CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT. -PARAPETS, SIDEWALKS AND MEDIANS PLACED ON TOP OF THE SLAB SHALL--BE POURED AFTER FALSEWORK HAS BEEN RELEASED, EXCEPT FOR STAGED -CONSTRUCTION.-

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

- TOP OF SLAB ELEVATION AT FINAL GRADE SLAB THICKNESS

- LESS
 SLAB THICKNESS

 PLUS
 CAMBER

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

 EQUALS
 TOP OF SLAB FALSEWORK ELEVATION

TOP OF SLAB ELEVATIONS

	€ BRG. S. ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	€ BRG. N. ABUT.
W. EDGE OF DECK	973.60	973.56	973.52	973.48	973.44	973.41	973.37	973.34	973.30	973.27	973.24
CROWN OR 🧉	973.95	973.91	973.87	973.83	973.79	973.75	973.72	973.68	973.65	973.62	973.59
E. EDGE OF DECK	973.60	973.56	973.52	973.48	973.44	973.41	973.37	973.34	973.30	973.27	973.24



5307-00-73

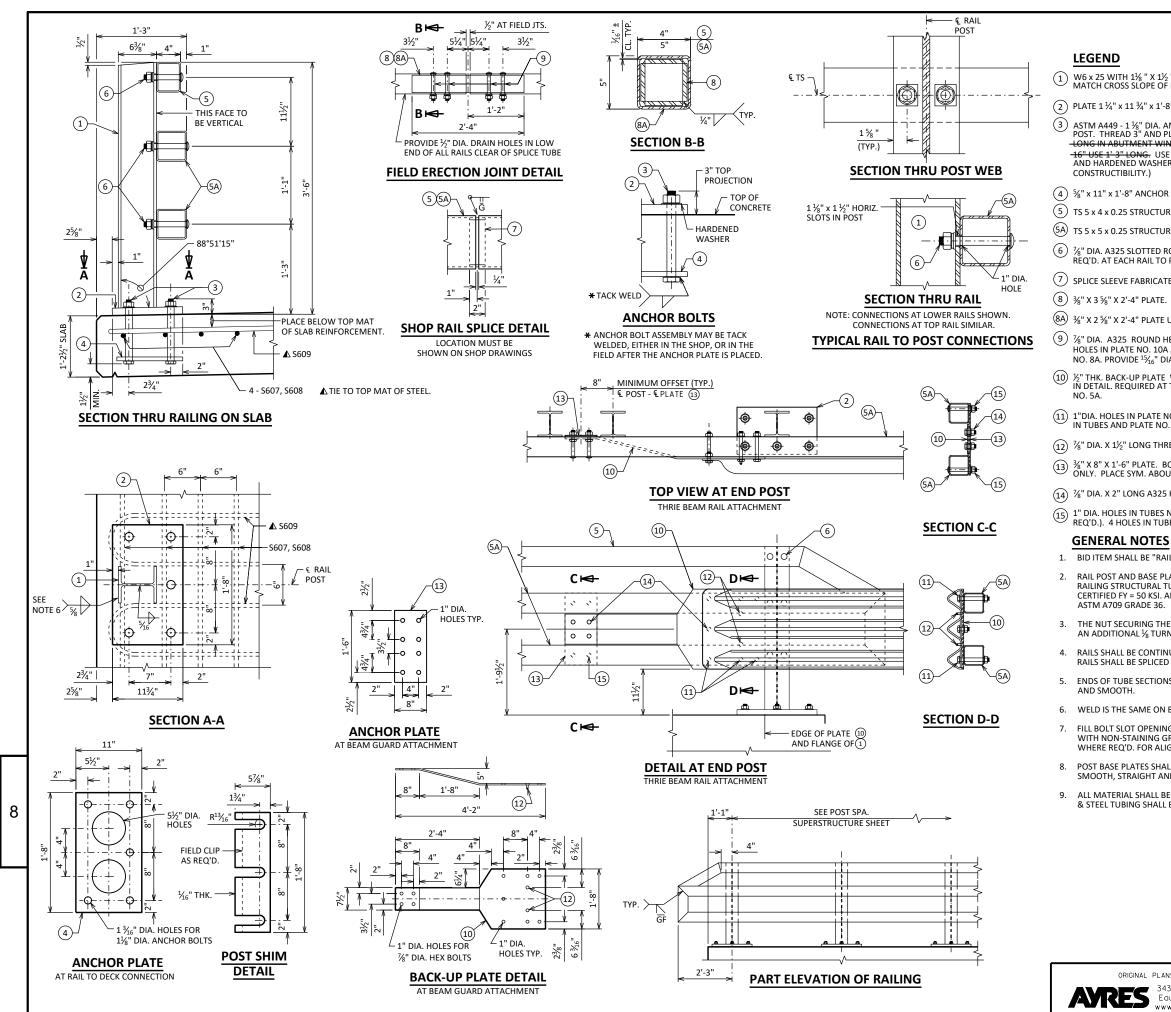
BILL OF BARS

bar Mark	CO4>	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION	
S1001	Х	64	26'-0"			SLAB BOTTOM LONGITUDINAL	
S502	Х	46	34'-2"			SLAB BOTTOM TRANSVERSE	
S503	Х	31	34'-2"			SLAB TOP TRANSVERSE	
S404	Х	28	30'-2"			SLAB TOP LONGITUDINAL	
S505	Х	70	6'-10"	Х		ABUTMENT DIAPHRAGM STIRRUPS	
S506	Х	4	32'-2"			ABUTMENT DIAPHRAGM LONGITUDINAL	
S607	Х	32	6'-0"			SLAB TOP LONGIT. UNDER RAIL POSTS	
S608	Х	16	4'-8"	Х		SLAB TOP LONGIT. UNDER RAIL END POSTS	
S609	Х	24	12'-0"	Х		SLAB TOP HOOKS UNDER RAIL POSTS	

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

SURVEY TOP OF SLAB ELEVATIONS

	<u>CL BRO</u>	5. S. ABI	JT.	<u>5/</u>	<u>10 PT.</u>		CL BRG. N.	ABUT.		
W. EDGE OF SLAB										
CROWN OR €										
E. EDGE OF SLAB										
PRIOR TO RELEAS THE € OF ABUTM ELEVATIONS ALO THE TABLE ABOV	IENTS, € NG EDGI	OF PIER E OF SLA	s ani B an	D AT 5/1 D CROW) PTS. TO	VERI	Y CAMBER	. TAKE]	8
	NO.	DATE			REVISIO	-		B	Y	
			I		TE OF WIS					
	S	TRU	стι	JRE	B-33	8-13	9			
					DR/ BY	AWN	PLAN ZSS CK'D		JCK	
RED BY vood Hills Parkw		SUP	ERS	TRU	CTUR	E	SHEET 9	OF 10		
e, WI 5470I Associates.com	3		DE	TAIL	S					SCALE =



STATE	PROJECT	NUMBER

5307-00-73

(1) W6 x 25 WITH 11/8 " X 11/2 " HORIZ. SLOTS ON EACH SIDE OF POST FOR BOLT NO. 6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.

(2) PLATE $1\frac{1}{4}$ " x $11\frac{3}{4}$ " x 11-8" WITH $1\frac{7}{16}$ " OVERSIZED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN.

ASTM A449 - 1 ½" DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REQ'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1'9" LONG IN ABUTMENT WINGS. AT POSTS ON CONCRETE SLAB SUPERSTRUCTURES WHERE THE SLAB THICKNESS IS > $\frac{16"$ USE 1' 3" Long. Use 10 $\frac{3}{4}"$ long at all other locations. (An equivalent threaded rod with nuts and hardened washers may be substituted for anchor bolts in wings if req'd. For

(4) $\frac{1}{2}$ x 11" x 1'-8" ANCHOR PLATE (GALVANIZED) WITH $1\frac{3}{16}$ " DIA. HOLES FOR ANCHOR BOLTS NO. 3

(5) TS 5 x 4 x 0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.

(5A) TS 5 x 5 x 0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6

(6) $\frac{7}{8}$ " DIA. A325 SLOTTED ROUND HEAD BOLT WITH NUT, $\frac{3}{16}$ " X 1 $\frac{5}{8}$ " X 1 $\frac{5}{8}$ " MIN. WASHER, AND LOCK WASHER (2 REQ'D. AT EACH RAIL TO POST LOCATION.)

(7) SPLICE SLEEVE FABRICATED FROM $\frac{1}{4}$ " PLATE. PROVIDE "SLIDING FIT".

(8) ¾" X 3 ½" X 2'-4" PLATE. 2 PER RAIL. USED IN NO. 5 & 5A.

(8A) ¾" X 2 ¾" X 2'-4" PLATE USED IN NO. 5, ¾" X 3 ½" X 2'-4" PLATE USED IN NO. 5A. 2 PER RAIL.

9 ½" DIA. A325 ROUND HEAD BOLT WITH NUT, WASHER, AND LOCK WASHER. USE ¹½6" x 1 ½" LONGIT. SLOTTED HOLES IN PLATE NO. 10A AT FIELD JOINTS AND ¹½6" X 2 ½" MIN. LONGIT. SLOTTED HOLES AT EXP. JOINTS IN PLATE NO. 8A. PROVIDE 15/16" DIA. ROUND HOLES IN TUBES NO. 5 AND NO. 5A.

(10) ½" THK. BACK-UP PLATE WITH 2 - ½" X 1 ½" THREADED SHOP WELDED STUDS (NO. 12). BOLT TO RAIL AS SHOWN IN DETAIL. REQUIRED AT THRIE BEAM GUARD RAIL ATTACHMENTS ONLY. PLACE SYMMETRICALLY ABOUT TUBES

(1) 1"DIA. HOLES IN PLATE NO. 10 & TUBES NO. 5A FOR $\frac{7}{8}$ " DIA. A325 BOLTS WITH HEX NUTS AND WASHERS. 6 HOLES IN TUBES AND PLATE NO. 10.

(12) 7_8 " DIA. X 17_2 " LONG THREADED SHOP WELDED STUDS (2 REQ'D).

(13) ½" X 8" X 1'-6" PLATE. BOLT TO RAIL AS SHOWN IN DETAIL. REQ'D. AT THRIE BEAM GUARD RAIL ATTACHMENTS ONLY. PLACE SYM. ABOUT TUBES NO. 5A.

(14) 7_8 " DIA. X 2" LONG A325 HEX BOLT WITH NUT AND WASHER (5 REQ'D.).

(15) 1" dia. Holes in tubes no. 5a for %" dia. A325 round head bolt with nut, washer and lock washer (4 req'd.). 4 holes in tubes.

1. BID ITEM SHALL BE "RAILING TUBULAR TYPE M" WHICH INCLUDES ALL ITEMS SHOWN.

RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED FY = 50 KSI. ANCHOR PLATES, AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF

3. The nut securing the POST base plate to the concrete shall be tightened to a snug fit and given an additional $\frac{1}{2}$ turn.

RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE. RAILS SHALL BE SPLICED IN A PANEL OVER EXPANSION JOINTS.

ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE

6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING.

FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 AND CAULK AROUND PERIMETER OF PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REQ'D. FOR ALIGNMENT.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

9. ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING BY SSPC SPECIFICATIONS.

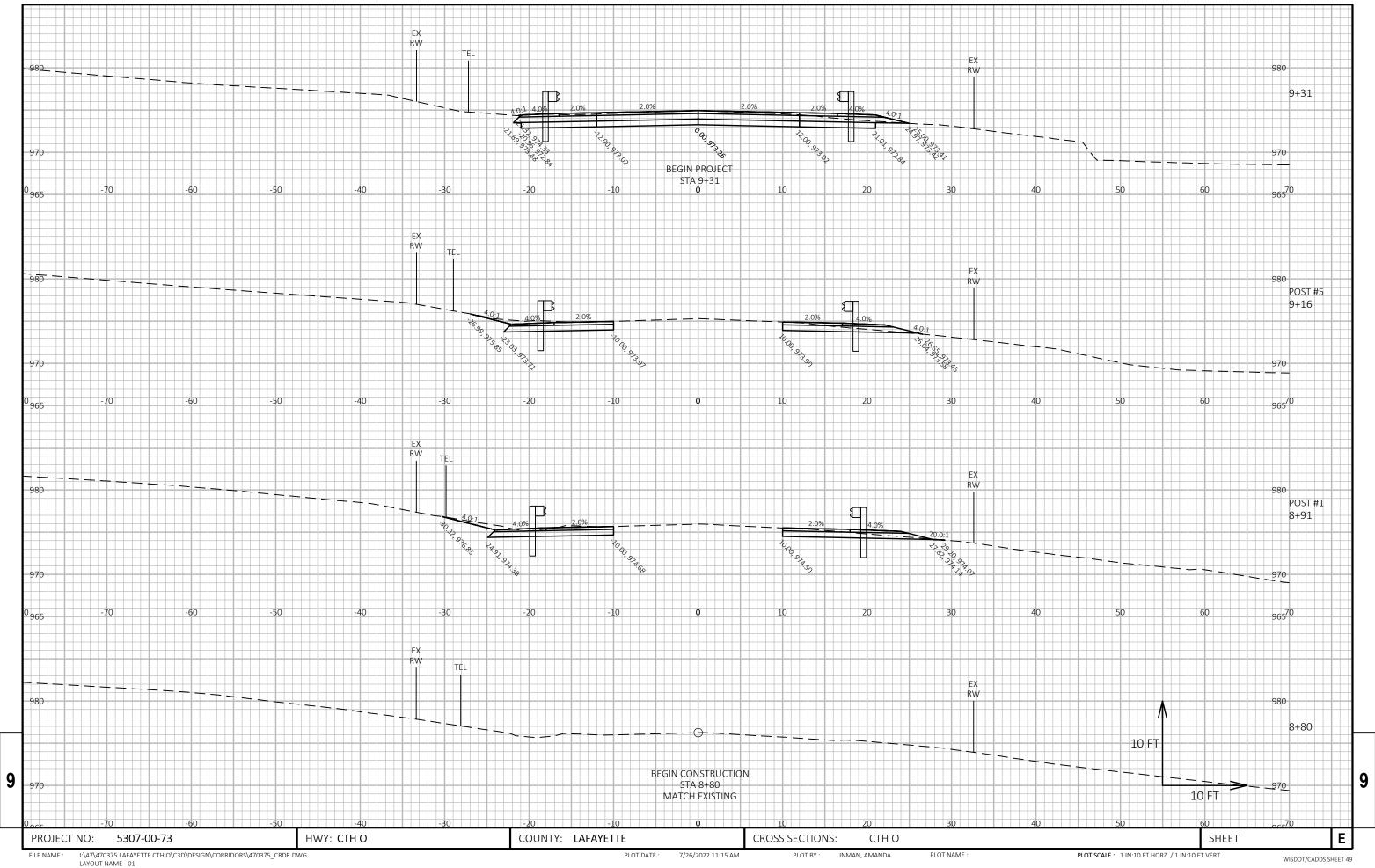
	<u>г</u>		<u>,</u>			T		
	NO.	DATE		ATE OF	EVISION WISCONSIN F TRANSPOR		BY	
	S.	TRU	CTURE	B-	-33-13 Idrawn	89		
					BY	ZSS CK'D	JCK	l
AL PLANS PREPARED BY 3433 Oakwood Hills Parkway		TU	BULAR S	STEE	EL	SHEET 100	F 10	
Eau Claire, WI 54701 www.AyresAssociates.com		RAII	LING TY	PE '	М'			CALE =

					СТН О С	OMPUTER EARTH	WORK				
			Area (SF)		Increme	ntal Vol (CY) (Una	djusted)	c	umulative Vol (-	
			Unusable							Expanded	
Station	Distance	Cut	Cut	Fill	Cut	Unusable Cut	Fill	Cut	Unusable Cut	Fill	Mass Ordinate
								1.00		1.30	
0.04		0.0	0.0	0.0	Note 1	Note 2	Note 3	Note 1	Note 2	Note 3	Note 4
8+84		0.0	0.0	0.0				6	0	0	6
8+95	11	28.6	0.0	1.9	6	0	0	6	0	0	6
9+00 0+20	5	27.4	0.0	2.0	5	0	0	11	0	0	11
9+20 0+25	20	26.7	0.0	1.8	20	0	1	31	0	1	30 25
9+25	5	25.2	0.0	1.2	5	0	0	36	0	1	35
9+35	10	42.0	21.1	0.0	12	4	0	48	4	1	47
9+45	10 5	37.3	21.1	0.0	15	8	0	63 70	12	1	62
9+50 0+75	5	35.1	21.1	1.3	7	4	0	70	16 26	1	69 82
9+75	25	24.8	21.1	22.0	28	20	11	98	36	16	82
NEW BRIDGE			 21_1								
10+25 10+50	 25	25.5 30.2	21.1 21.1	30.4 24.6	 26	 20	 25	 124	 56	 48	 76
10+50	25 5	29.9	21.1	24.0 21.3	6		25 4	124	60	40 53	70
10+55	10	29.9	21.1	21.5 19.1	11	4 8	4	141	68	55 62	79
10+03	10	29.3 10.8	0.0	21.4	11	8 6	, 11	141	74	02 77	75
10+80	25	10.8	0.0	15.4	11	0	17	163	74 74	99	64
11+25	20	14.8	0.0	12.1	11	0	10	105	74	112	62
11+50	25	16.1	0.0	10.3	14	0	10	188	74	125	63
11+75	25	16.9	0.0	6.5	15	0	8	203	74 74	135	68
12+00	25	0.0	0.0	0.0	8	0	3	205	74 74	139	72
12:00	23	0.0	0.0	0.0	211	74	107		, ,	100	72
		Note 3 -	Unusable Expanded	Cut Exis Fill Vol		t pavement. Not d to be filled = Fil		outside tl	ne 1:1 road core	 	
HWY: CTH O				COUNT	Y: LAFAYE	TTE		СОМР	UTER EARTHW	ORK DAT	A

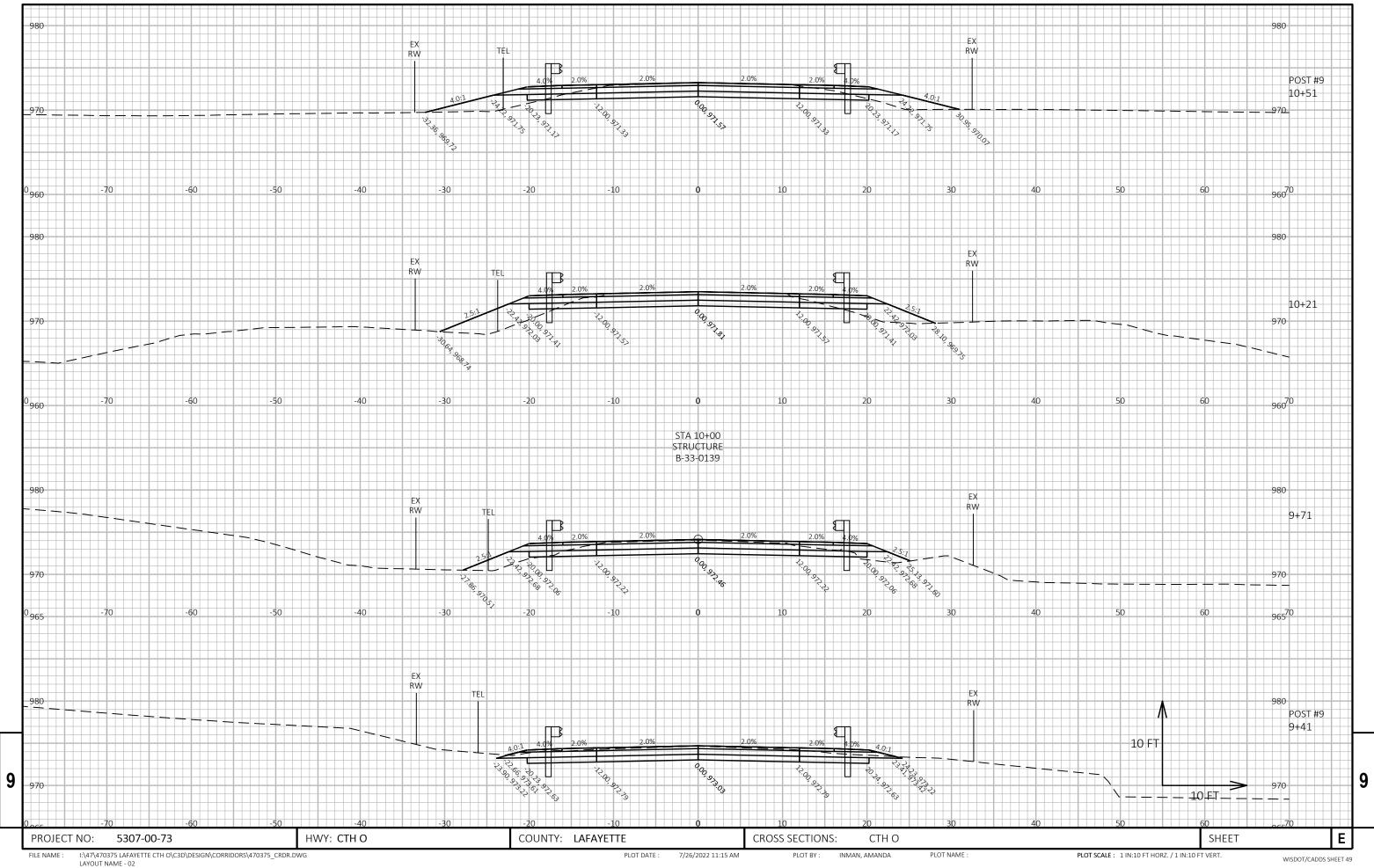
CTH O	COMPUTER	REARTHWORK

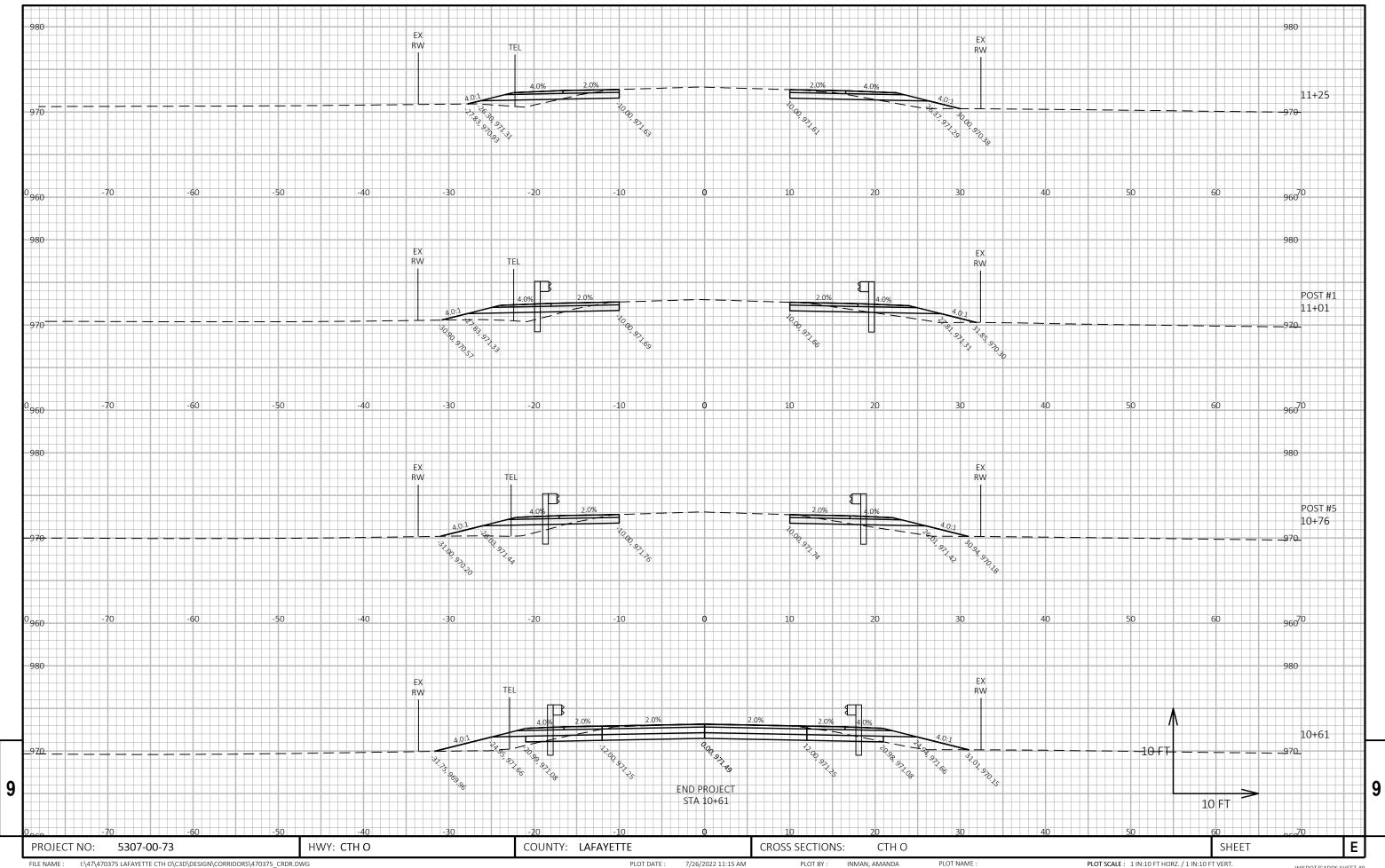
Note 1 - Cut	Usable cut only
Note 2 - Unusable Cut	Existing asphalt pavement. Not to be used outside the 1:1 road core.
Note 3 - Expanded Fill	Volume needed to be filled = Fill * 1.30
Note 4 - Mass Ordinate	(Cut) - (Expanded Fill)

Ε



^{7/26/2022 11:15} AM PLOT BY :

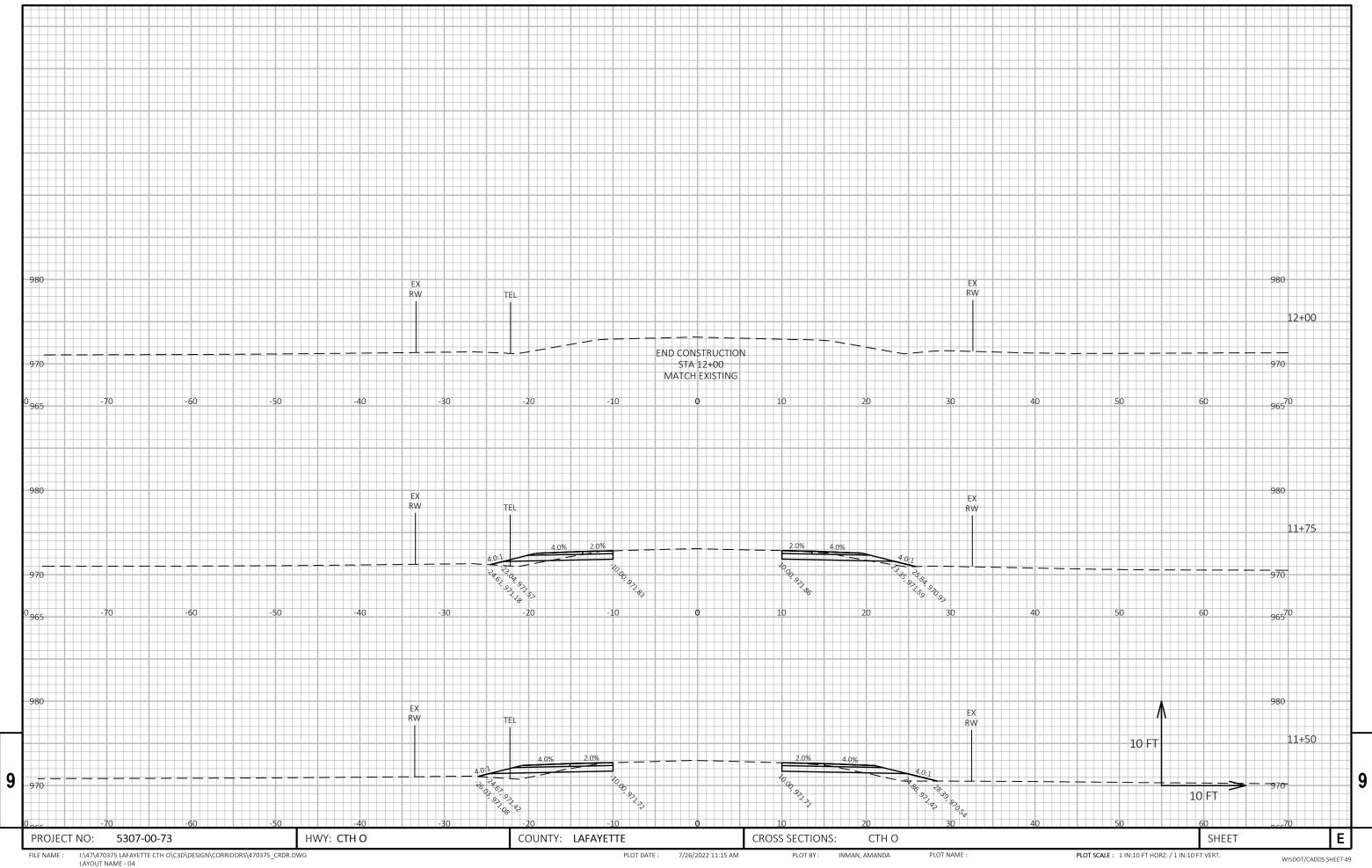




I:\47\470375 LAFAYETTE CTH O\C3D\DESIGN\CORRIDORS\470375_CRDR.DWG LAYOUT NAME - 03

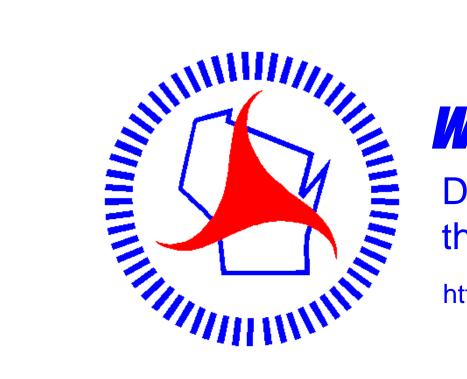
PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

PLOT DATE : 7/26/2022 11:15 AM PLOT BY :



PLOT DATE : 7/26/2022 11:15 AM

Notes

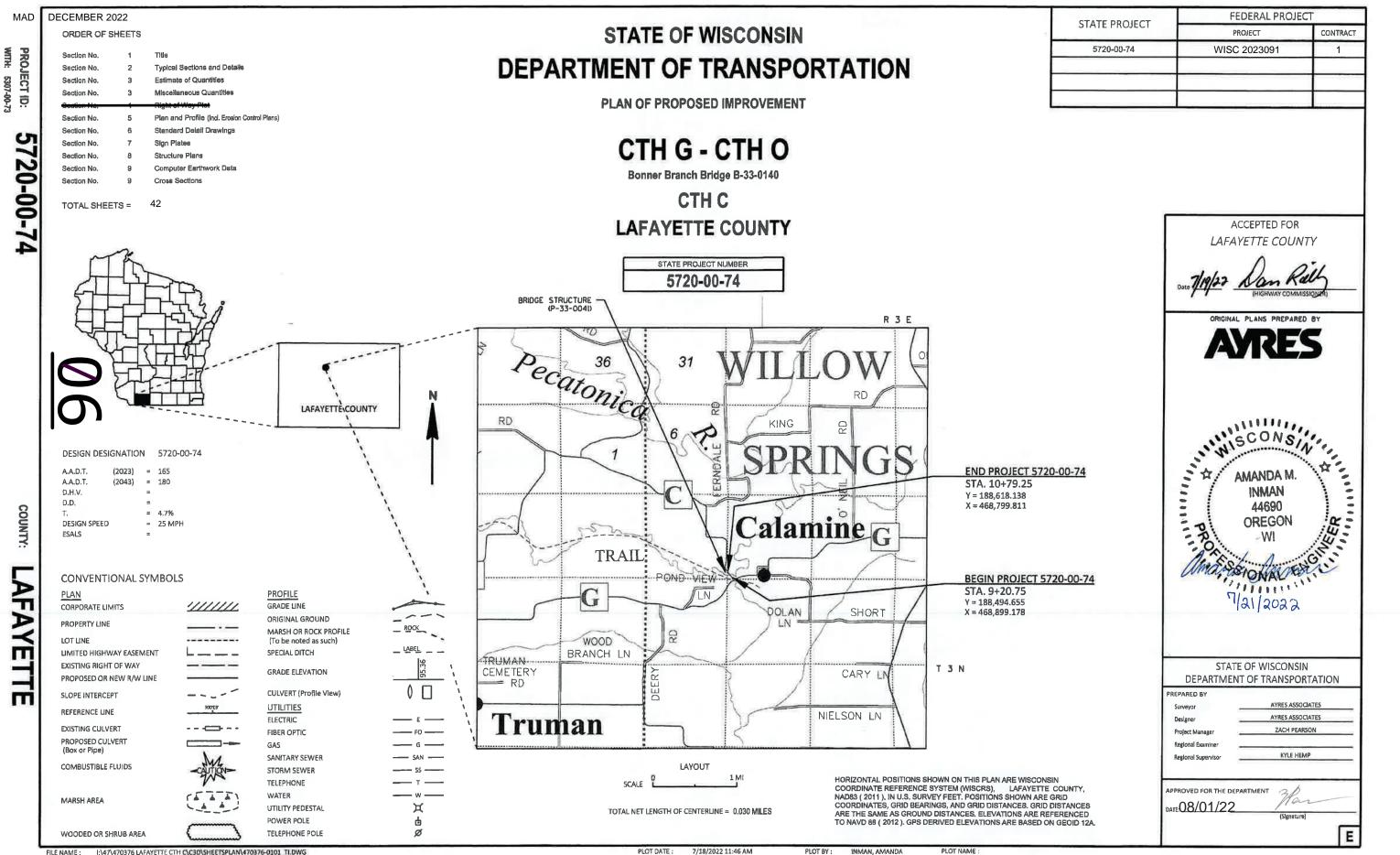


Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov





FILE NAME : I:\47\470376 LAFAYETTE CTH C\C3D\SHEETSPLAN\470376-0101_TI.DWG

7/18/2022 11:46 AM INMAN, AMANDA PLOT DATE : PLOT BY :

GENERAL NOTES

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

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT LOCATION THAT ARE NOT SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING ALL UTILITIES.

A SAWED JOINT WILL BE REQUIRED WHERE NEW PAVEMENT IS TO MEET AN EXISTING PAVED SURFACE.

EXACT TRAFFIC CONTROL LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD. ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.

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

PROTECT FROM DAMAGE AND COMPLETE SHOULDER WORK AROUND ANY EXISTING SIGNS OR MAILBOXES THAT ARE TO REMAIN IN PLACE.

RESTORATION OF EXPOSED SLOPES AND DITCHES SHALL TAKE PLACE WITHIN 7 CALENDAR DAYS AFTER FINISHED GRADING IS COMPLETE.

WETLANDS ARE PRESENT IN THE PROJECT AREA. DO NOT DISTURB WETLANDS OUTSIDE THE PROPOSED SLOPE INTERCEPTS

IF AN EXISTING SIGN IS TO BE REMOVED AND REPLACED WITH A NEW SIGN, DO NOT REMOVE THE EXISTING SIGN PRIOR TO INSTALLATION OF THE NEW SIGN.

THE LOCATIONS OF EROSION CONTROL ITEMS SHALL BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

FERTILIZER SHALL NOT BE USED WITHIN 20 FEET OF NAVIGABLE WATERWAYS OR WETLANDS.

ASPHALT PAVEMENT LAYERS: -UPPER: 1.75-INCH -LOWER: 2.25-INCH

ABBREVIATIONS

A.D.T. ATMS	AVERAGE DAILY TRAFFIC ARTERIAL TRAFFIC MANAGEMENT SYSTEM
BM	BENCHMARK
BOC	BACK OF CURB
BTWN	BETWEEN
C&G	CURB AND GUTTER
C.E.	COMMERCIAL ENTRANCE
CONST	CONSTRUCTION
CP	CONTROL POINT
CTR.	CENTER
D.D.	DIRECTIONAL DISTRIBUTION
D.H.T.	DESIGN HOURLY VOLUME
DMS	DYNAMIC MESSAGE SIGN
FB	FASTBOUND
EXIST	EXISTING
GALV.	GALVANIZED
НМА	HOT MIX ASPHALT
H.S.	HIGH STRENGTH
ITS	INTELLIGENT TRAFFIC SYSTEM
MAX	MAXIMUM
MIN	MINIMUM
NB	NORTHBOUND
NOR	NORMAL
PC	POINT OF CURVATURE
PCC	POINT OF COMMON CURVATURE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PVT	PAVEMENT
R/L	REFERENCE LINE
REQ'D	REQUIRED
SB	SOUTHBOUND
SYM	SYMMETRICAL
Т.	PERCENT TRUCKS
TCC	TRAFFIC CONDITION CAMERA
TYP	TYPICAL
VAR	VARIABLE
WB	WESTBOUND
Wt.	WEIGHT
X-WALK	CROSS WALK

PROJECT CONTACTS

LAFAYETTE COUNTY HIGHWAY DEPARTMENT DAN RIELLY HIGHWAY COMMISSIONER 12016 HILL STREET P.O. BOX 100 DARLINGTON WI 53530 P: (608) 776-4917 E: DAN.RIELLY@LAFAYETTECOUNTYWI.ORG

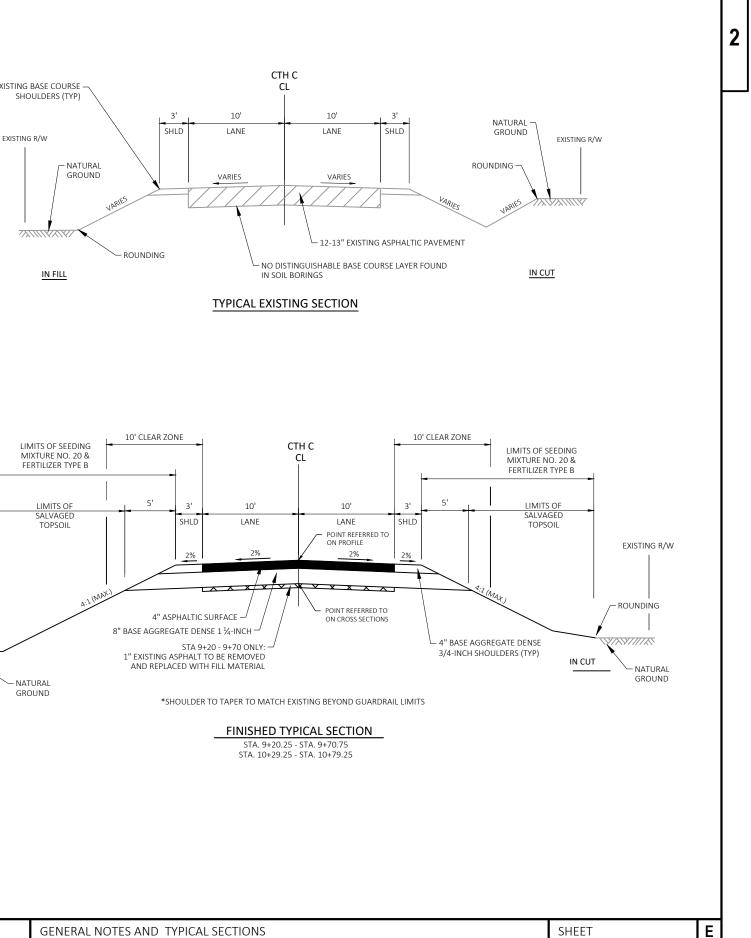
WISCONSIN DEPARTMENT OF NATURAL RESOURCES SHELLEY NELSON SOUTHWEST REGION HEADQUARTERS 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711 P: (608) 444-2835 E: SHELLY.NELSON@WISCONSIN.GOV

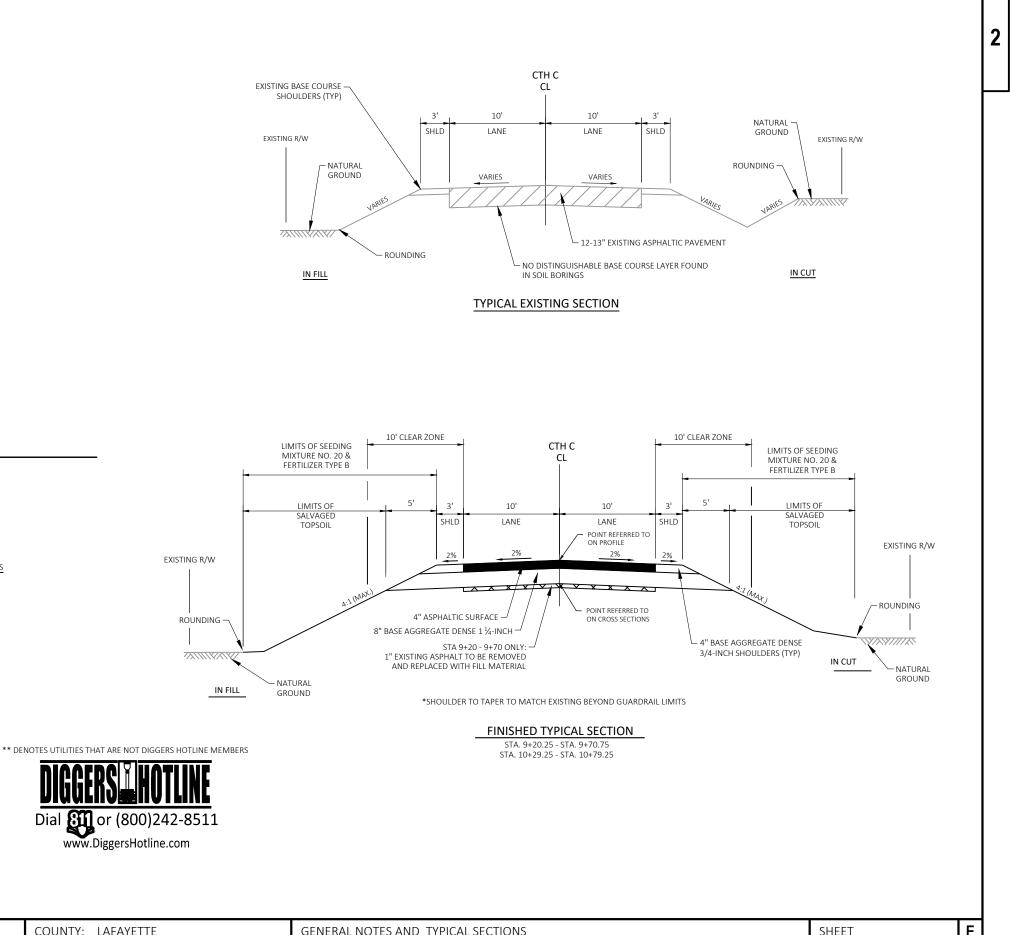
DESIGNER AMANDA INMAN, PE AYRES ASSOCIATES 5201 EAST TERRACE DRIVE, SUITE 200 MADISON, WI 53718 P: (608) 443-1239 E: INMANA@AYRESASSOCIATES.COM

UTILITIES

ALLIANT ENERGY JOSH MEYER 761 ENTERPRISE DRIVE PLATTEVILLE, WI 53818 C: (608) 247-9628 E: JOSHUAMEYER@ALLIANTENERGY.COM

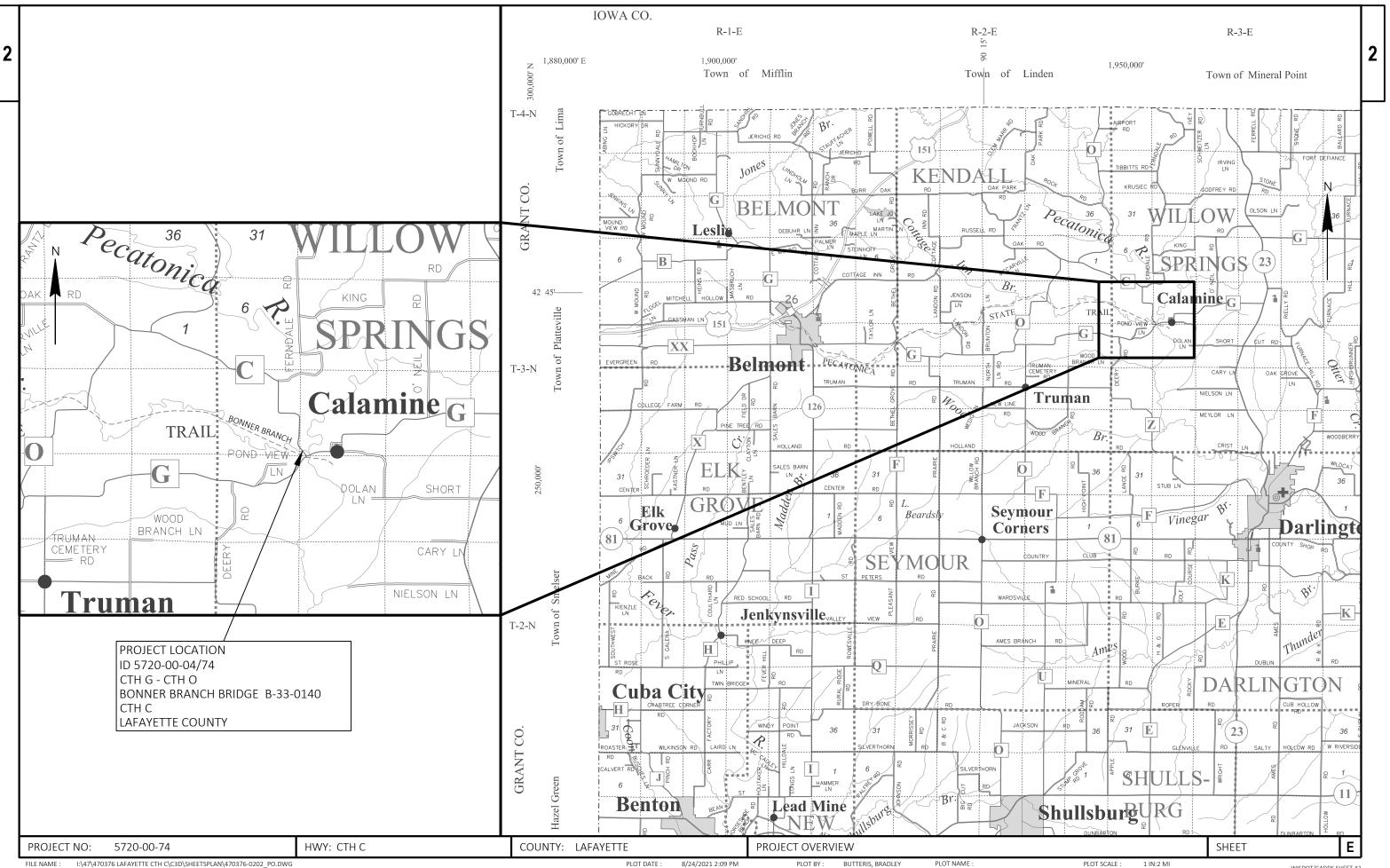
LUMEN DOUG MCGOWAN 135 NORTH BONSON STREET PLATTEVILLE, WI 53818 P. (608) 342-4316 C: (608) 482-5377 E: DOUG.MCGOWAN1@LUMEN.COM





PROJECT	NO: 5720-00-74	HWY: CTH C	COUNTY: LAFAYETTE		GENERAL NOTES AND TYPICAL SECTIONS			
FILE NAME :	I:\47\470376 LAFAYETTE CTH C\C3D\SHEETSPLAN\470376-0201_GN.DWG		PLOT DATE :	7/23/2022 8:56 PM	PLOT BY :	INMAN, AMANDA	PLOT NAME :	

Dial



PLOT DATE : 8/24/2021 2:09 PM PLOT BY :

PLOT NAME

Estimate Of Quantities By Plan Sets

					-	 	
					5720-00-74		
Line	ltem	Item Description	Unit	Total	Qty		
8000	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 02. P-33-0041	EACH	1.000	1.000		
0010	205.0100	Excavation Common	CY	139.000	139.000		
0014	206.1001	Excavation for Structures Bridges (structure) 02. B-33-0140	EACH	1.000	1.000		
0016	210.1500	Backfill Structure Type A	TON	220.000	220.000		
0020	213.0100	Finishing Roadway (project) 02. 5720-00-74	EACH	1.000	1.000		
0022	305.0110	Base Aggregate Dense 3/4-Inch	TON	30.000	30.000		
0024	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	180.000	180.000		
0028	455.0605	Tack Coat	GAL	19.000	19.000		
0030	465.0105	Asphaltic Surface	TON	60.000	60.000		
0032	502.0100	Concrete Masonry Bridges	CY	190.000	190.000		
0034	502.3200	Protective Surface Treatment	SY	230.000	230.000		
0036	505.0400	Bar Steel Reinforcement HS Structures	LB	5,310.000	5,310.000		
0038	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	22,420.000	22,420.000		
0040	513.4061	Railing Tubular Type M	LF	162.000	162.000		
0042	516.0500	Rubberized Membrane Waterproofing	SY	18.000	18.000		
0048	550.2106	Piling CIP Concrete 10 3/4 X 0.365-Inch	LF	545.000	545.000		
0050	606.0300	Riprap Heavy	CY	200.000	200.000		
0052	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	140.000	140.000		
0054	614.0920	Salvaged Rail	LF	106.000	106.000		
0062	618.0100	Maintenance And Repair of Haul Roads (project) 02. 5720-00-74	EACH	1.000	1.000		
0064	619.1000	Mobilization	EACH	0.500	0.500		
0066	623.0200	Dust Control Surface Treatment	SY	340.000	340.000		
0068	624.0100	Water	MGAL	3.000	3.000		
0070	625.0500	Salvaged Topsoil	SY	117.000	117.000		
0072	628.1504	Silt Fence	LF	350.000	350.000		
0074	628.1520	Silt Fence Maintenance	LF	700.000	700.000		
0076	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000		
0078	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000		
0800	628.2008	Erosion Mat Urban Class I Type B	SY	158.000	158.000		
0082	628.6005	Turbidity Barriers	SY	480.000	480.000		
0084	628.7504	Temporary Ditch Checks	LF	20.000	20.000		
0086	629.0210	Fertilizer Type B	CWT	1.000	1.000		
0088	630.0120	Seeding Mixture No. 20	LB	10.000	10.000		
0090	630.0200	Seeding Temporary	LB	10.000	10.000		
0094	630.0500	Seed Water	MGAL	5.800	5.800		
0096	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	4.000	4.000		
0098	637.2230	Signs Type II Reflective F	SF	12.000	12.000		
0100	638.2602	Removing Signs Type II	EACH	8.000	8.000		
0102	638.3000	Removing Small Sign Supports	EACH	8.000	8.000		
0104	642.5001	Field Office Type B	EACH	0.500	0.500		
0106	643.0420	Traffic Control Barricades Type III	DAY	2,232.000	2,232.000		
0108	643.0705	Traffic Control Warning Lights Type A	DAY	2,976.000	2,976.000		
0110	643.0900	Traffic Control Signs	DAY	1,364.000	1,364.000		
0112	643.5000	Traffic Control	EACH	0.500	0.500		
0114	645.0111	Geotextile Type DF Schedule A	SY	100.000	100.000		
0116	645.0120	Geotextile Type HR	SY	370.000	370.000		
0118	650.4500	Construction Staking Subgrade	LF	100.000	100.000		
0120	650.5000	Construction Staking Base	LF	100.000	100.000		
0124	650.6501	Construction Staking Structure Layout (structure) 02. B-33-0140	EACH	1.000	1.000		



Estimate Of Quantities By Plan Sets

					5720-00-74
					5720-00-74
Line	Item	Item Description	Unit	Total	Qty
0128	650.9911	Construction Staking Supplemental Control (project) 02. 5720-00-74	EACH	1.000	1.000
0130	650.9920	Construction Staking Slope Stakes	LF	100.000	100.000
0132	690.0150	Sawing Asphalt	LF	60.000	60.000
0134	715.0502	Incentive Strength Concrete Structures	DOL	1,140.000	1,140.000
0138	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 02. 10+00	EACH	1.000	1.000
0140	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	325.000	325.000
0142	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	250.000	250.000

3

09/28/2022 15:22:51 Page 2

			стн с	EARTHWORK SL	JMMARY				
		(Excavation 1))5.0100)		Expanded Fill (2)	Mass Ordinate +/-	Waste	Borrow (Item 208.0100)	Comment:
From/To Station	Location	Cut	Unusable		Factor 1.30	(3)			
9+20 to 9+71	CTH C, SOUTH APPROACH	48	36	3	4	44	44		
10+29 to 10+79	CTH C, NORTH APPROACH	16	39	9	12	4	4		

TOTAL 139 16

1) Common Excavation is the Cut. Unusable excavation is existing pavement. Item number 205.0100.

2) Expanded Fill. Factor = 1.30; Expanded Fill = Unexpanded Fill * Fill Factor

3) The Mass Ordinate + or - Qty calculated for the side of the waterway. Plus quantity indicates an excess of material on the side of the waterway.

4) All quantities shown in CY.

			BASE AGGREGATE										*	**	
													455.0605	465.0105	
														ASPHALTIC	
			305.0110	305.0120	624.0100								TACK COAT	SURFACE	
				BASE			CATEGORY	STATI	ION	TO	STATION	LOCATION	GAL	TON	REMARKS
			BASE	AGGREGATE											
			AGGREGATE	DENSE 1 1/4-			0010	9+2	20	-	9+71	MAINLINE	10	31	SOUTH APPROACH
			DENSE 3/4-INCH	INCH	WATER		0010	10+2	29	-	10+79	MAINLINE	9	29	NORTH APPROACH
CATEGORY	STATION TO STATION	LOCATION	TON	TON	MGAL	REMARKS						TOTAL 0010	19	60	
0010	9+20 - 9+71	MAINLINE	10	90	1	SOUTH APPROACH	<u>NOTES:</u> * TACK COAT A				-00764	u /sv			
0010	10+29 - 10+79	MAINLINE	20	90	2	NORTH APPROACH	** ASSUMED A					1L/JI			
		TOTAL 0010	30	180	3	-									

EROSION CONTROL AND FINISHING ITEMS

SALVAGED RAIL

								TOTAL 0010	117	350	700	158	480	20	1.0	10	10	5.8
																	10	
					0010	ι	JNDISTRIBUTE	D	-	70	140	15	14	-	0.6	2	2	0.9
					0010	10+00 -	10+79	RT	20	65	130	30	247	10	0.1	2	2	1.0
					0010	10+00 -	10+79	LT	20	60	120	19	-	10	0.1	2	2	1.0
		TOTAL 0010	106		0010	9+20 -	10+00	RT	37	75	150	47	219	-	0.1	2	2	1.4
9+76	- 10+30	RT	54	_	0010	9+20 -	10+00	LT	40	80	160	47	-	-	0.1	2	2	1.5
9+80	- 10+32	LT	52		CATEGORY	STATION TO	J STATION	LUCATION	16	LF	LF	51	51	LF	CWI	LB	LD	WIGAL
STATION	TO STATION	LOCATION	LF	REMARKS	CATECODY	στατιών το					MAINTENANCE							SEED WATE MGAL
				-					SALVAGED		SILT FENCE	URBAN CLASS I	TURBIDITY	DITCH	FERTILIZER	SEEDING	SEEDING	
			614 0920									EROSION MAT		TEMPORARY				630.0500
	9+80		9+80 - 10+32 LT 9+76 - 10+30 RT	STATION TO STATION LOCATION LF 9+80 - 10+32 LT 52 9+76 - 10+30 RT 54	SALVAGED RAIL STATION TO STATION LOCATION LF REMARKS 9+80 - 10+32 LT 52 9+76 - 10+30 RT 54	SALVAGED RAIL STATION TO STATION LOCATION LF REMARKS CATEGORY 9+80 - 10+32 LT 52 0010 <td< td=""><td>SALVAGED RAIL STATION TO STATION LOCATION LF REMARKS 9+80 - 10+32 LT 52 - 0010 9+20 - 9+76 - 10+30 RT 54 0010 9+20 - 0010 106 0010 10+00 - - 0010 10+00 -</td><td>STATION TO STATION LOCATION LF REMARKS 9+80 - 10+32 LT 52 9+76 - 10+30 RT 54 TOTAL 0010 106 0010 9+20 - 10+00 0010 10+00 0 10+79 0010 10+00 - 10+79</td><td>SALVAGED RAIL STATION TO STATION LOCATION LF REMARKS 9+80 - 10+32 LT 52 9+76 - 10+30 RT 54 TOTAL 0010 106 0010 9+20 - 10+00 LT 0010 9+20 - 10+00 RT 0010 0+20 - 10+00 RT 0010 10+00 010 10+00 - 10+79 LT 0010 10+00 - 10+79 RT</td><td>SALVAGED RAIL SALVAGED RAIL SALVAGED RAIL STATION TO STATION LOCATION LF REMARKS CATEGORY STATION TO STATION LOCATION LOCATION SY 9+80 - 10+32 LT 52 CATEGORY STATION 10 LOCATION SY 9+76 - 10+30 RT 54 0010 9+20 - 10+00 LT 40 07010 10+30 RT 54 0010 9+20 - 10+00 RT 37 0010 9+20 - 10+00 RT 37 0010 10+00 - 10+79 LT 20 0010 10+00 - 10+79 RT 20</td><td>614.0920 SALVAGED RAIL SALVAGED <th< td=""><td>STATION TO STATION LOCATION LF REMARKS 9+80 - 10+32 LT 52 STATION 10+32 LT 52 9+76 - 10+30 RT 54 0010 9+20 - 10+00 LT 40 80 160 0010 9+20 - 10+00 RT 37 75 150 0010 10+00 - 10+79 RT 20 60 120 0010 10+00 - 10+79 RT 20 65 130</td><td>STATION IO STATION LOCATION LF REMARKS STATION STATION LOCATION LF REMARKS 9+80 - 10+32 LT 52 510+30 CATEGORY STATION 10 STATION STATION STATION LF LF SY 9+80 - 10+32 LT 52 - - 10+00 SY LF LF SY 9+76 - 10+30 RT 54 - - 10+00 LT 40 80 160 47 0010 9+20 - 10+00 RT 37 75 150 47 0010 9+20 - 10+00 RT 37 75 150 47 0010 9+20 - 10+00 RT 37 75 150 47 0010 0+20 - 10+79 RT 20 60 120 19 0010 10+00 - 10+79 RT 20 65 130 30 <</td><td>STATION TO STATION LOCATION LF REMARKS 9+80 - 10+32 LT 52 STATION 106 LT 52 9+76 - 10+30 RT 54 - 0010 9+20 - 10+00 RT 40 80 160 47 - 01010 106 - 10010 9+20 - 10+00 RT 30 120</td><td>STATION TO STATION LOCATION LF REMARKS 9+80 - 10+32 LT 52 9+76 - 10+32 LT 52 107L 010 106 010L 0100 9+20 - 10+00 RT 54 10 100 10</td><td>STATION TO STATION LOCATION LF REMARKS 9+80 - 10+32 LT 52 9+76 - 10+32 LT 52 9+76 - 10+32 LT 52 010 RT 54 010 106 - 10+00 106 0110 106 - 10+00 10+00 10+00 0110 10+00 10+00 - 10+00 10+00 10+00 0110 10+00 - 10+000 10+00 10+00 10+00 10+00 0110 10+000 - 10+000 10+000 10+000 10+000 10+000 10+000 10+000 0110 10+000 - 10+0000 10+0000 10+0000 10+0000 10+0000 10+0000 10+0000 10+0000 10+000000 10+000000 10+0000000 10+</td><td>BARRIER BARRIER BARRIER BARRIER TEMPORARY SECONS SECONS</td><td>bit 541.0920 5ALVAGED RAIL SALVAGED SALVAGED</td></th<></td></td<>	SALVAGED RAIL STATION TO STATION LOCATION LF REMARKS 9+80 - 10+32 LT 52 - 0010 9+20 - 9+76 - 10+30 RT 54 0010 9+20 - 0010 106 0010 10+00 - - 0010 10+00 -	STATION TO STATION LOCATION LF REMARKS 9+80 - 10+32 LT 52 9+76 - 10+30 RT 54 TOTAL 0010 106 0010 9+20 - 10+00 0010 10+00 0 10+79 0010 10+00 - 10+79	SALVAGED RAIL STATION TO STATION LOCATION LF REMARKS 9+80 - 10+32 LT 52 9+76 - 10+30 RT 54 TOTAL 0010 106 0010 9+20 - 10+00 LT 0010 9+20 - 10+00 RT 0010 0+20 - 10+00 RT 0010 10+00 010 10+00 - 10+79 LT 0010 10+00 - 10+79 RT	SALVAGED RAIL SALVAGED RAIL SALVAGED RAIL STATION TO STATION LOCATION LF REMARKS CATEGORY STATION TO STATION LOCATION LOCATION SY 9+80 - 10+32 LT 52 CATEGORY STATION 10 LOCATION SY 9+76 - 10+30 RT 54 0010 9+20 - 10+00 LT 40 07010 10+30 RT 54 0010 9+20 - 10+00 RT 37 0010 9+20 - 10+00 RT 37 0010 10+00 - 10+79 LT 20 0010 10+00 - 10+79 RT 20	614.0920 SALVAGED RAIL SALVAGED SALVAGED <th< td=""><td>STATION TO STATION LOCATION LF REMARKS 9+80 - 10+32 LT 52 STATION 10+32 LT 52 9+76 - 10+30 RT 54 0010 9+20 - 10+00 LT 40 80 160 0010 9+20 - 10+00 RT 37 75 150 0010 10+00 - 10+79 RT 20 60 120 0010 10+00 - 10+79 RT 20 65 130</td><td>STATION IO STATION LOCATION LF REMARKS STATION STATION LOCATION LF REMARKS 9+80 - 10+32 LT 52 510+30 CATEGORY STATION 10 STATION STATION STATION LF LF SY 9+80 - 10+32 LT 52 - - 10+00 SY LF LF SY 9+76 - 10+30 RT 54 - - 10+00 LT 40 80 160 47 0010 9+20 - 10+00 RT 37 75 150 47 0010 9+20 - 10+00 RT 37 75 150 47 0010 9+20 - 10+00 RT 37 75 150 47 0010 0+20 - 10+79 RT 20 60 120 19 0010 10+00 - 10+79 RT 20 65 130 30 <</td><td>STATION TO STATION LOCATION LF REMARKS 9+80 - 10+32 LT 52 STATION 106 LT 52 9+76 - 10+30 RT 54 - 0010 9+20 - 10+00 RT 40 80 160 47 - 01010 106 - 10010 9+20 - 10+00 RT 30 120</td><td>STATION TO STATION LOCATION LF REMARKS 9+80 - 10+32 LT 52 9+76 - 10+32 LT 52 107L 010 106 010L 0100 9+20 - 10+00 RT 54 10 100 10</td><td>STATION TO STATION LOCATION LF REMARKS 9+80 - 10+32 LT 52 9+76 - 10+32 LT 52 9+76 - 10+32 LT 52 010 RT 54 010 106 - 10+00 106 0110 106 - 10+00 10+00 10+00 0110 10+00 10+00 - 10+00 10+00 10+00 0110 10+00 - 10+000 10+00 10+00 10+00 10+00 0110 10+000 - 10+000 10+000 10+000 10+000 10+000 10+000 10+000 0110 10+000 - 10+0000 10+0000 10+0000 10+0000 10+0000 10+0000 10+0000 10+0000 10+000000 10+000000 10+0000000 10+</td><td>BARRIER BARRIER BARRIER BARRIER TEMPORARY SECONS SECONS</td><td>bit 541.0920 5ALVAGED RAIL SALVAGED SALVAGED</td></th<>	STATION TO STATION LOCATION LF REMARKS 9+80 - 10+32 LT 52 STATION 10+32 LT 52 9+76 - 10+30 RT 54 0010 9+20 - 10+00 LT 40 80 160 0010 9+20 - 10+00 RT 37 75 150 0010 10+00 - 10+79 RT 20 60 120 0010 10+00 - 10+79 RT 20 65 130	STATION IO STATION LOCATION LF REMARKS STATION STATION LOCATION LF REMARKS 9+80 - 10+32 LT 52 510+30 CATEGORY STATION 10 STATION STATION STATION LF LF SY 9+80 - 10+32 LT 52 - - 10+00 SY LF LF SY 9+76 - 10+30 RT 54 - - 10+00 LT 40 80 160 47 0010 9+20 - 10+00 RT 37 75 150 47 0010 9+20 - 10+00 RT 37 75 150 47 0010 9+20 - 10+00 RT 37 75 150 47 0010 0+20 - 10+79 RT 20 60 120 19 0010 10+00 - 10+79 RT 20 65 130 30 <	STATION TO STATION LOCATION LF REMARKS 9+80 - 10+32 LT 52 STATION 106 LT 52 9+76 - 10+30 RT 54 - 0010 9+20 - 10+00 RT 40 80 160 47 - 01010 106 - 10010 9+20 - 10+00 RT 30 120	STATION TO STATION LOCATION LF REMARKS 9+80 - 10+32 LT 52 9+76 - 10+32 LT 52 107L 010 106 010L 0100 9+20 - 10+00 RT 54 10 100 10	STATION TO STATION LOCATION LF REMARKS 9+80 - 10+32 LT 52 9+76 - 10+32 LT 52 9+76 - 10+32 LT 52 010 RT 54 010 106 - 10+00 106 0110 106 - 10+00 10+00 10+00 0110 10+00 10+00 - 10+00 10+00 10+00 0110 10+00 - 10+000 10+00 10+00 10+00 10+00 0110 10+000 - 10+000 10+000 10+000 10+000 10+000 10+000 10+000 0110 10+000 - 10+0000 10+0000 10+0000 10+0000 10+0000 10+0000 10+0000 10+0000 10+000000 10+000000 10+0000000 10+	BARRIER BARRIER BARRIER BARRIER TEMPORARY SECONS SECONS	bit 541.0920 5ALVAGED RAIL SALVAGED SALVAGED

3

ASPHALT

<u>SIGNS</u>

TRAFFIC CONTROL

				643.0420 TRAFFIC		643.0705 TRAFFIC		643.0900	643.5000	
				CONTROL		CONTROL				
				BARRICADES		WARNING		TRAFFIC	TRAFFIC	
		DURATION		TYPEIII		LIGHTS TYPE A		CONTROL SIGNS	CONTROL	
CATEGORY	LOCATION	DAYS	NO.	DAY	NO.	DAY	NO.	DAY	EACH	REMARKS
0010	PER SDD 15C2	124	18	2,232	24	2,976	11	1,364	-	DETAILS C &
0010	CTH C	-	-	-		-		-	0.5	
		TOTAL 0010		2,232		2,976		1,364	0.5	

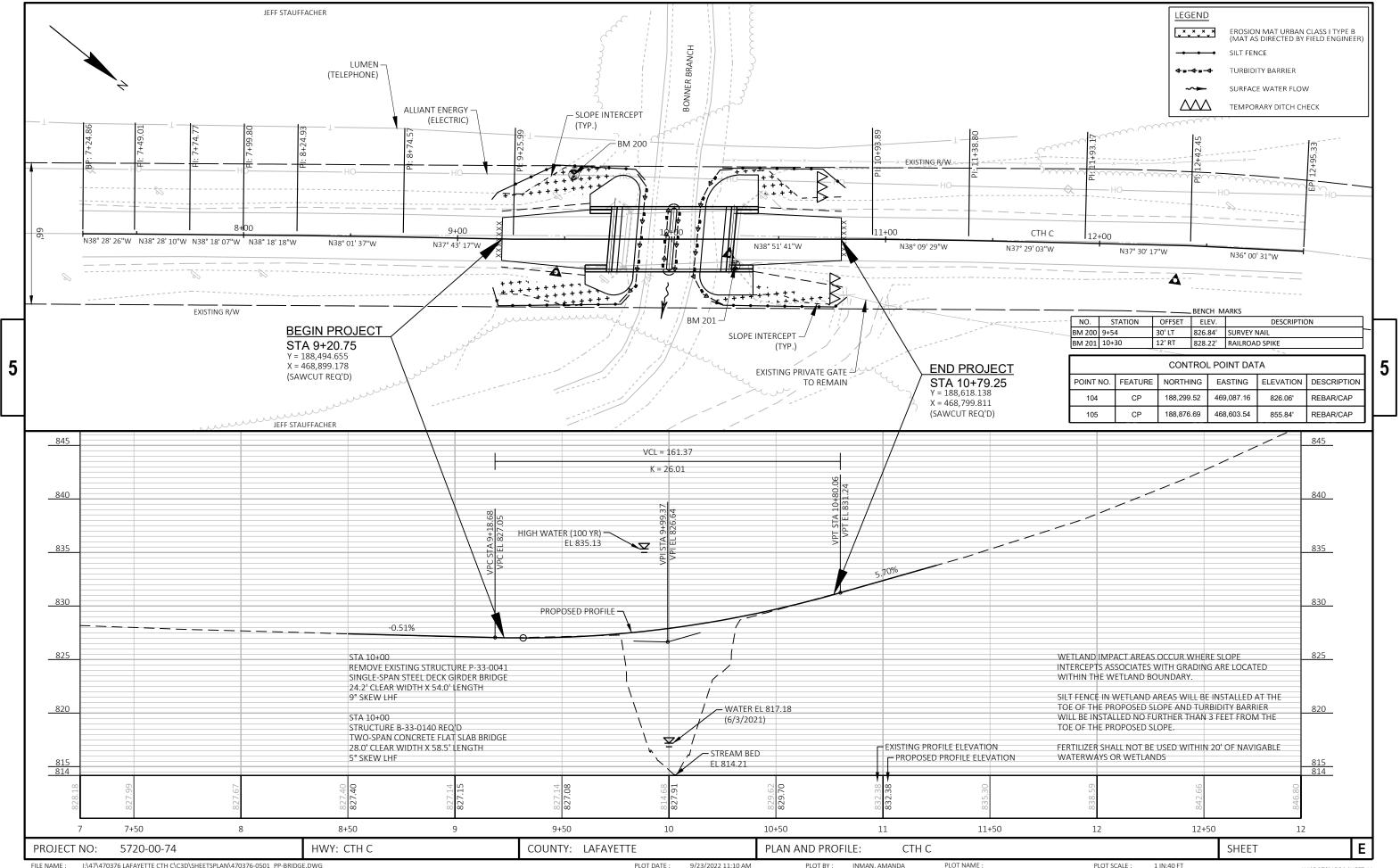
			634.0614 POSTS WOOD	637.2230	638.2602	638.3000 REMOVING	
			4X6-INCH X 14-	SIGNS TYPE II	REMOVING	SMALL SIGN	
			FT	REFLECTIVE F	SIGNS TYPE II	SUPPORTS	
CATEGORY	STATION	LOCATION	EACH	SF	EACH	EACH	REMARKS
0010		W OF BRIDGE	-	-	1	1	R12-55: 20 TON BRIDGE 0.1 MILES AHEAD
0010		W OF BRIDGE	-	-	1	1	R12-1: WEIGHT LIMIT 20 TONS
0010	9+50	RT	1	3	1	1	W5-52R: CLEARANCE STRIPER DOWN LEFT
0010	9+50	LT	1	3	1	1	W5-52L: CLEARANCE STRIPER DOWN RIGHT
0010	10+50	RT	1	3	1	1	W5-52L: CLEARANCE STRIPER DOWN RIGHT
0010	10+50	LT	1	3	1	1	W5-52R: CLEARANCE STRIPER DOWN LEFT
0010		E OF BRIDGE	-	-	1	1	R12-1: WEIGHT LIMIT 20 TONS
0010		E OF BRIDGE			1	1	R12-55: 20 TON BRIDGE X.X MILES AHEAD
		TOTAL 0010	4	12	8	8	

<u>STAKING</u>

					650.4500	650.5000	650.6501.01 CONSTRUCTION STAKING	650.9911.01 CONSTRUCTION STAKING	650.9920
					CONSTRUCTION STAKING		STRUCTURE LAYOUT (STRUCTURE)	SUPPLEMENTAL CONTROL (PROJECT) (01.	CONSTRUCTION STAKING SLOPE
CATEGORY	STATION	то	STATION	LOCATION	SUBGRADE LF	STAKING BASE LF	(01. B-33-0140) EACH	5720-00-74) EACH	STAKES LF
0010	9+20	-	10+79	MAINLINE TOTAL 0010	100 100	100 100	0	<u> </u>	100 100
0020	9+71	-	10+29	B-33-0140 TOTAL 0020	- 0	- 0	1	- 0	- 0
				PROJECT TOTAL	100	100	1	1	100

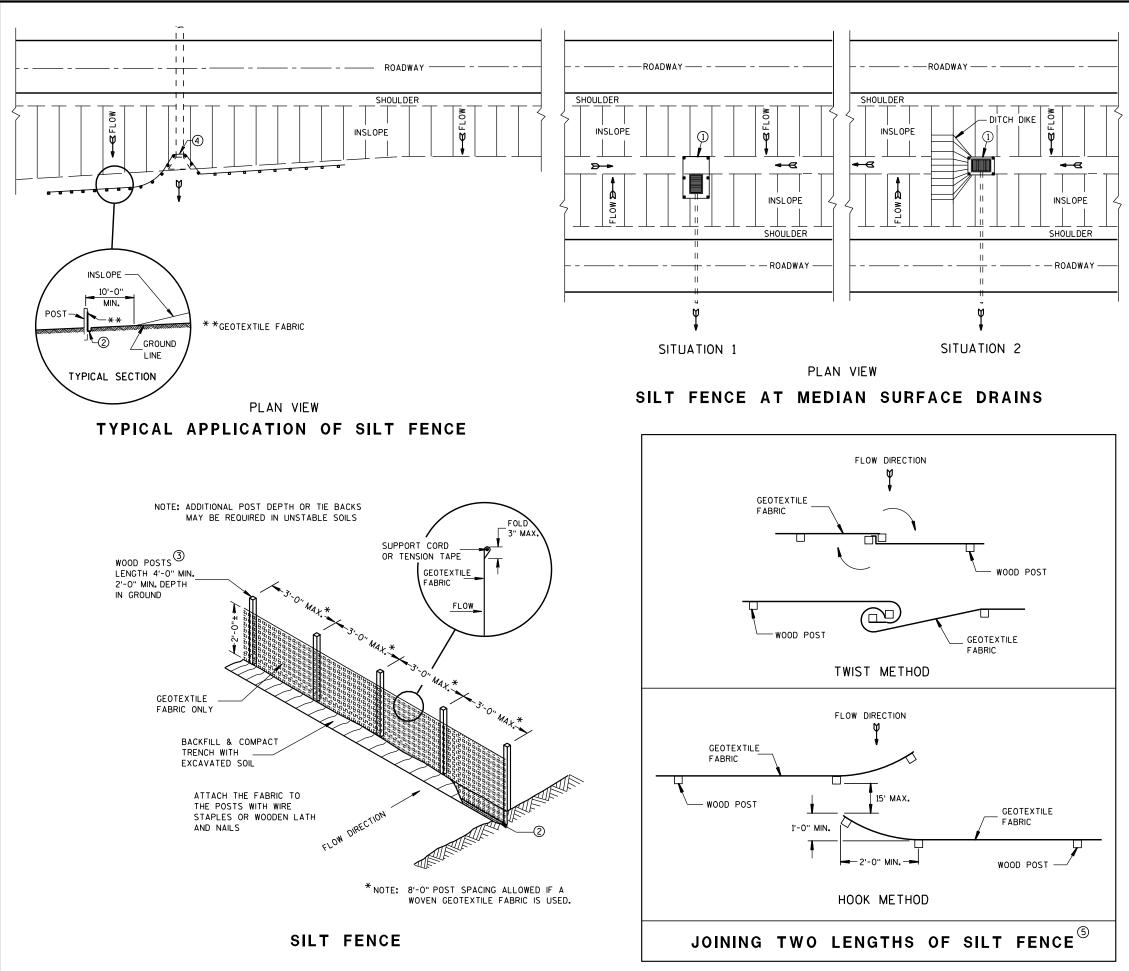
				ALL QUANT
PROJECT NO: 5720-00-74	HWY: CTH C	COUNTY: LAFAYETTE	MISCELLANEOUS QUANTITIES	

NTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED						
	SHEET NO:	Ε				



Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-10	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS



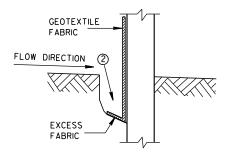
S.D.D. 8 E 9

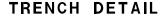
Ō

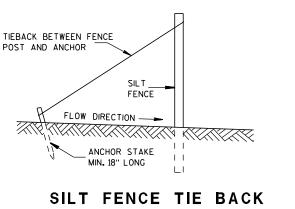
GENERAL NOTES

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

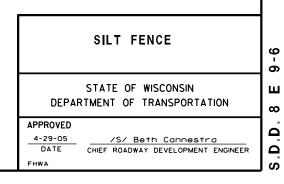
- \bigcirc horizontal brace required with 2" x 4" wooden frame or equivalent at top of posts.
- (2) FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- (3)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

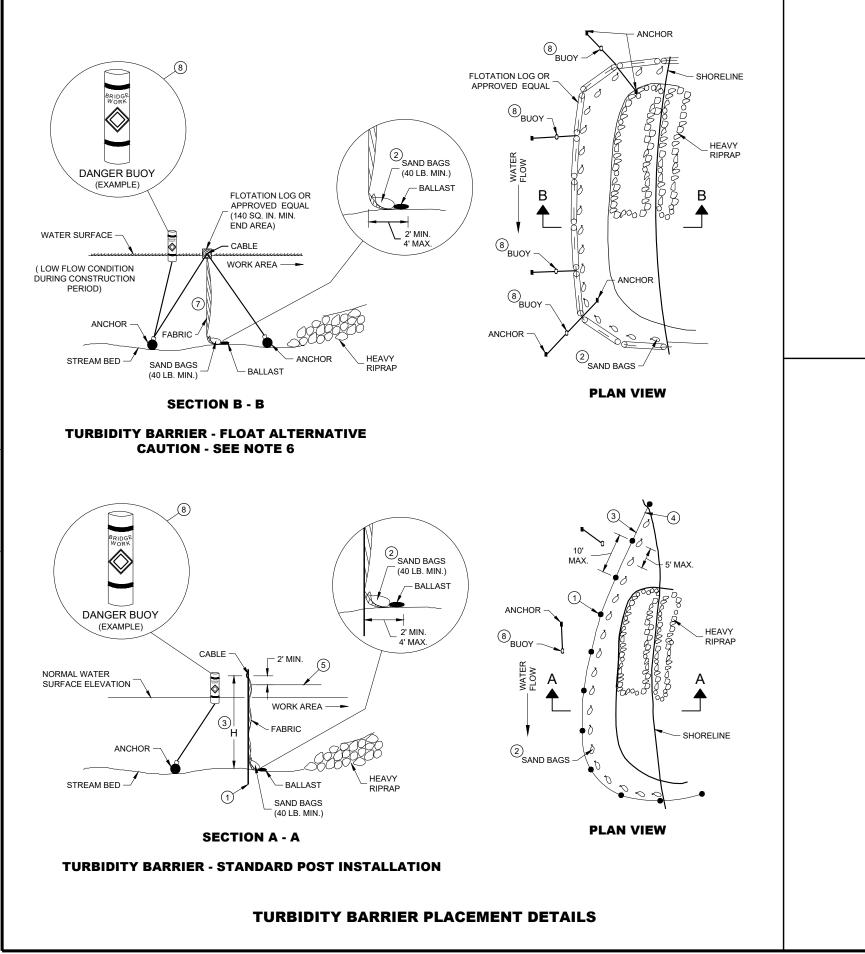




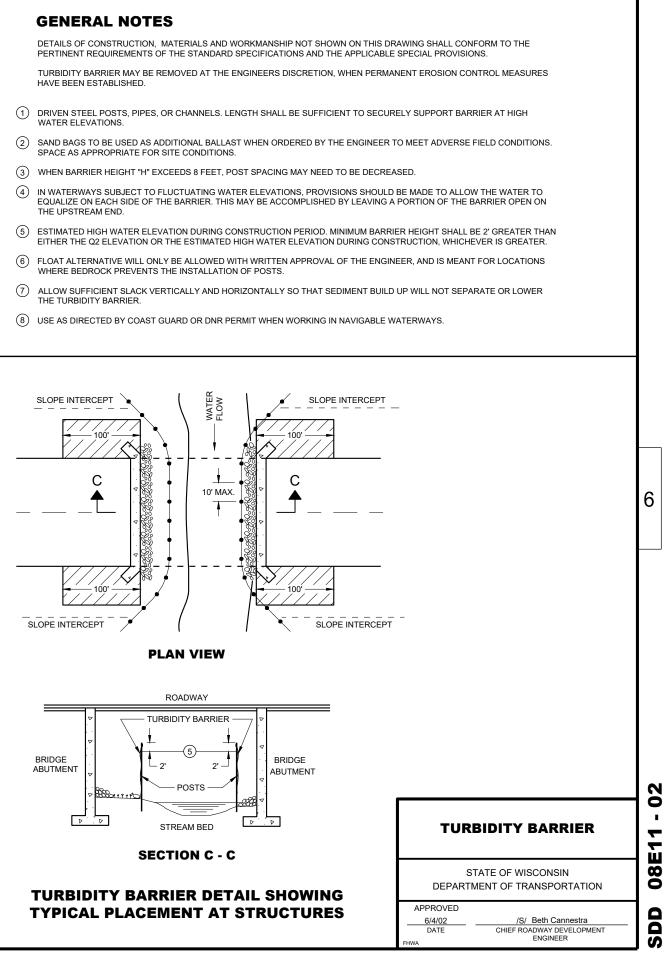


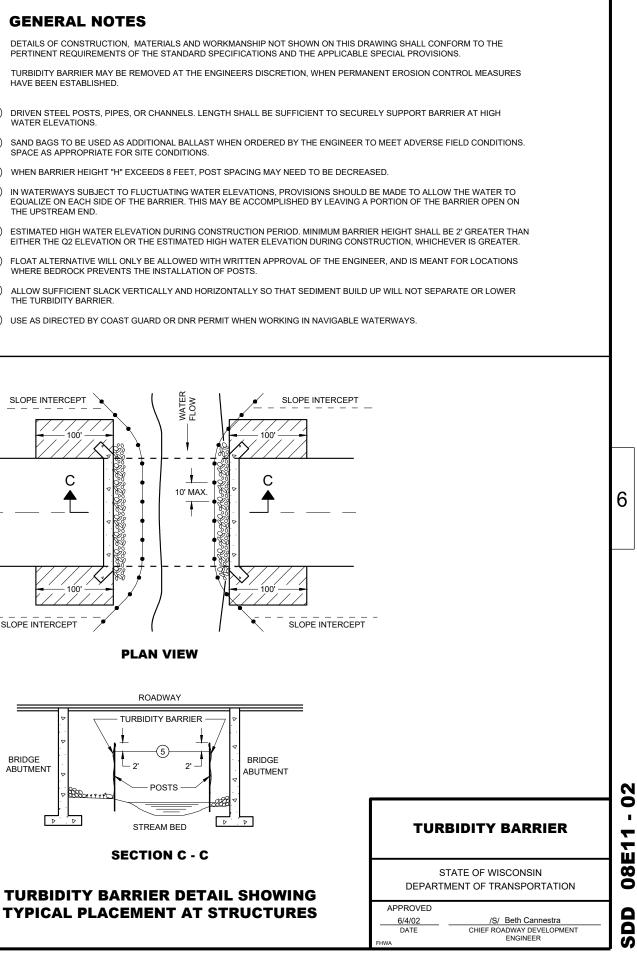
(WHEN REQUIRED BY THE ENGINEER)



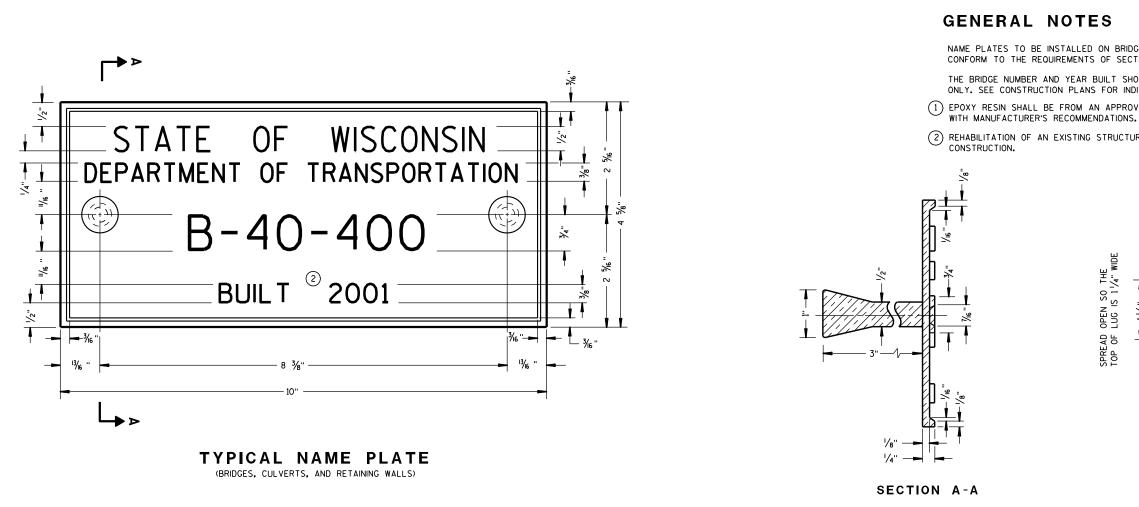


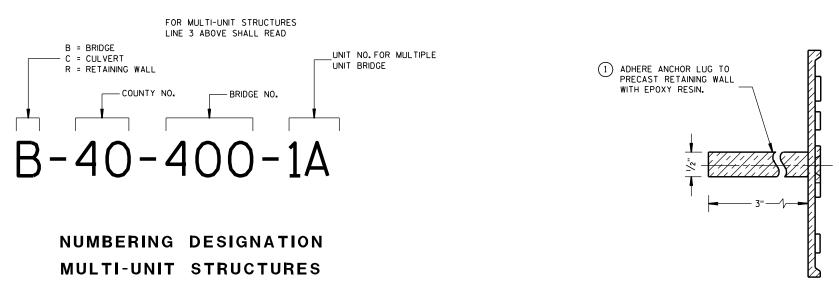
- WATER ELEVATIONS.





SDD 08E -. 02



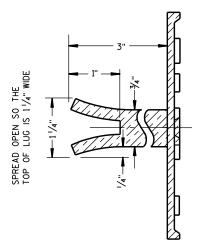


ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

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

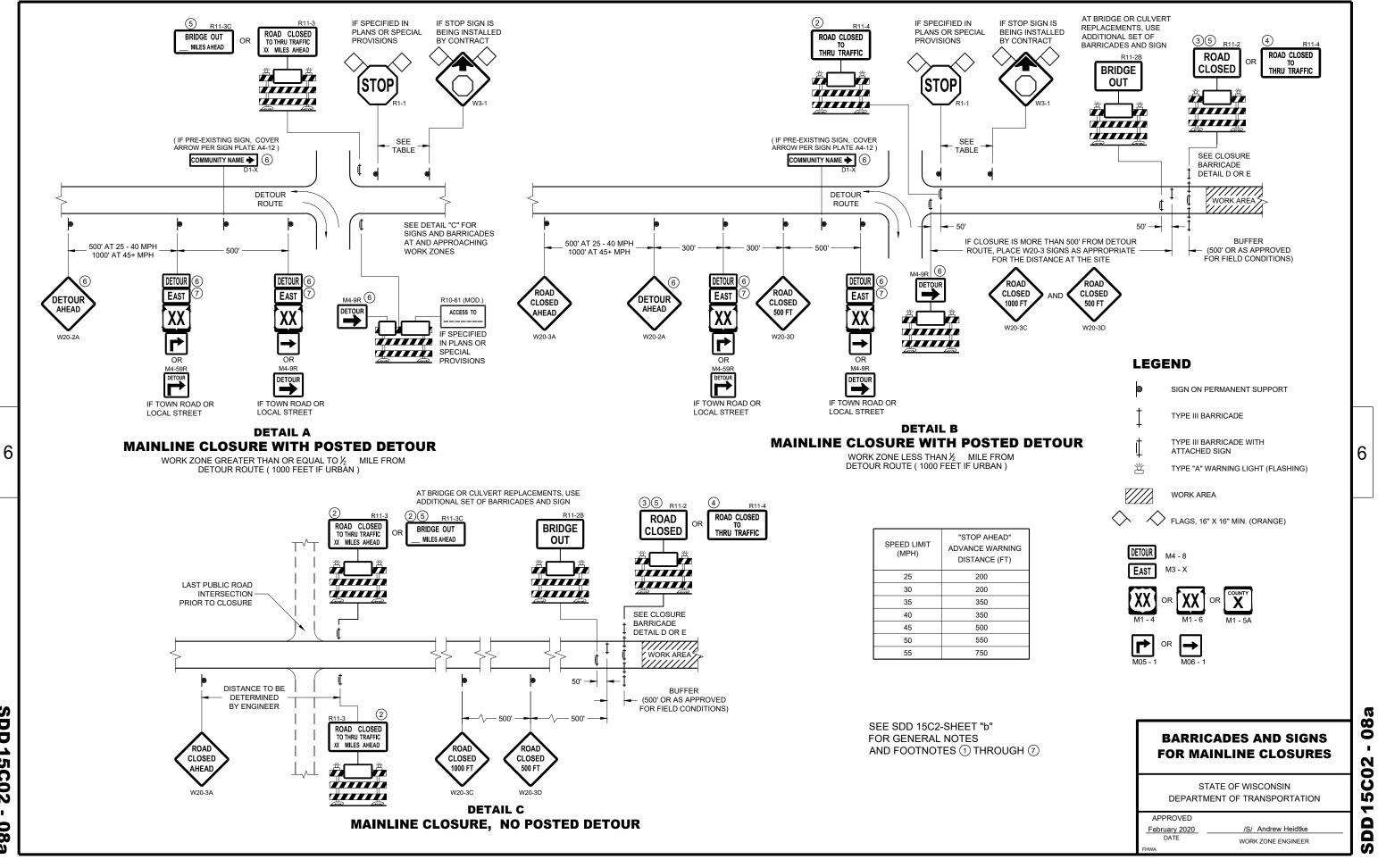
APPROVED

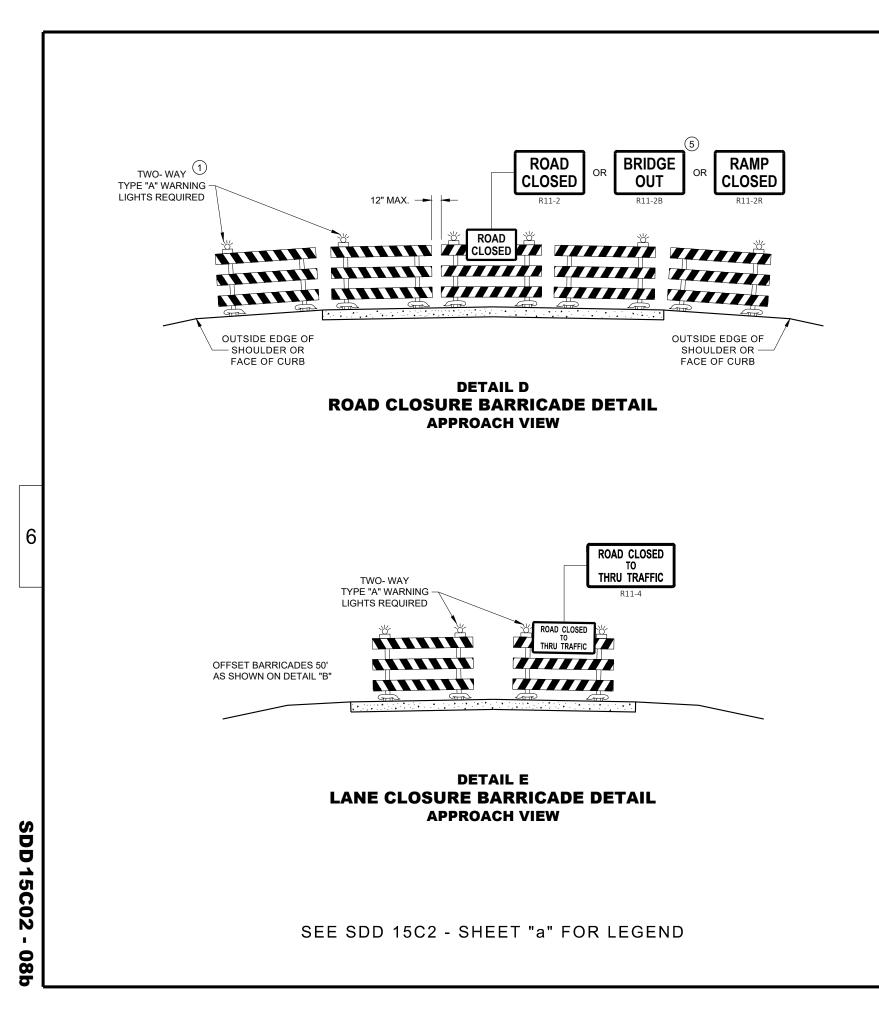
3/26/10 DATE FHWA

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

Δ

ഗ





GENERAL NOTES

FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

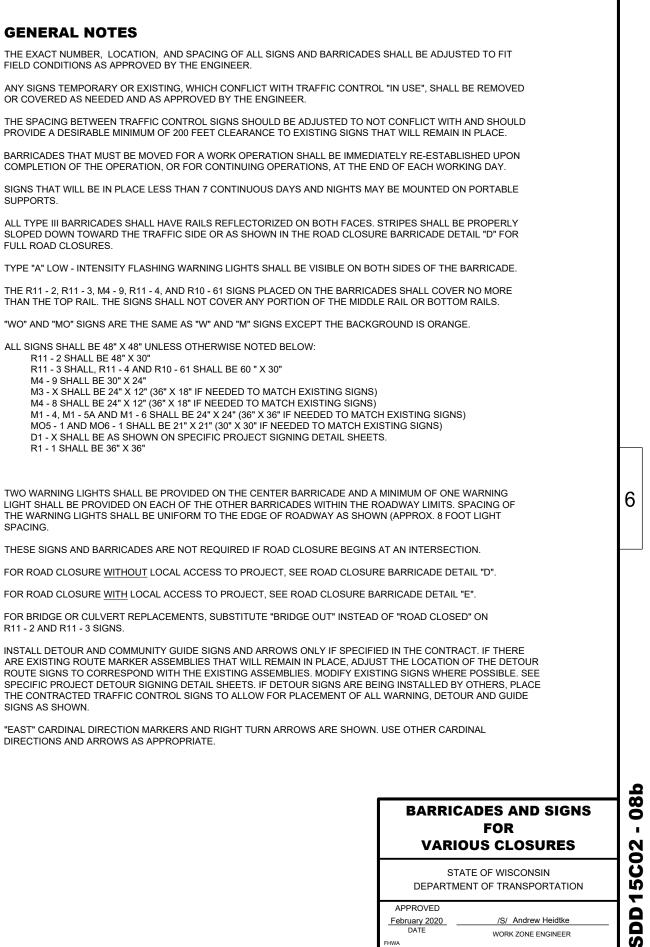
SUPPORTS.

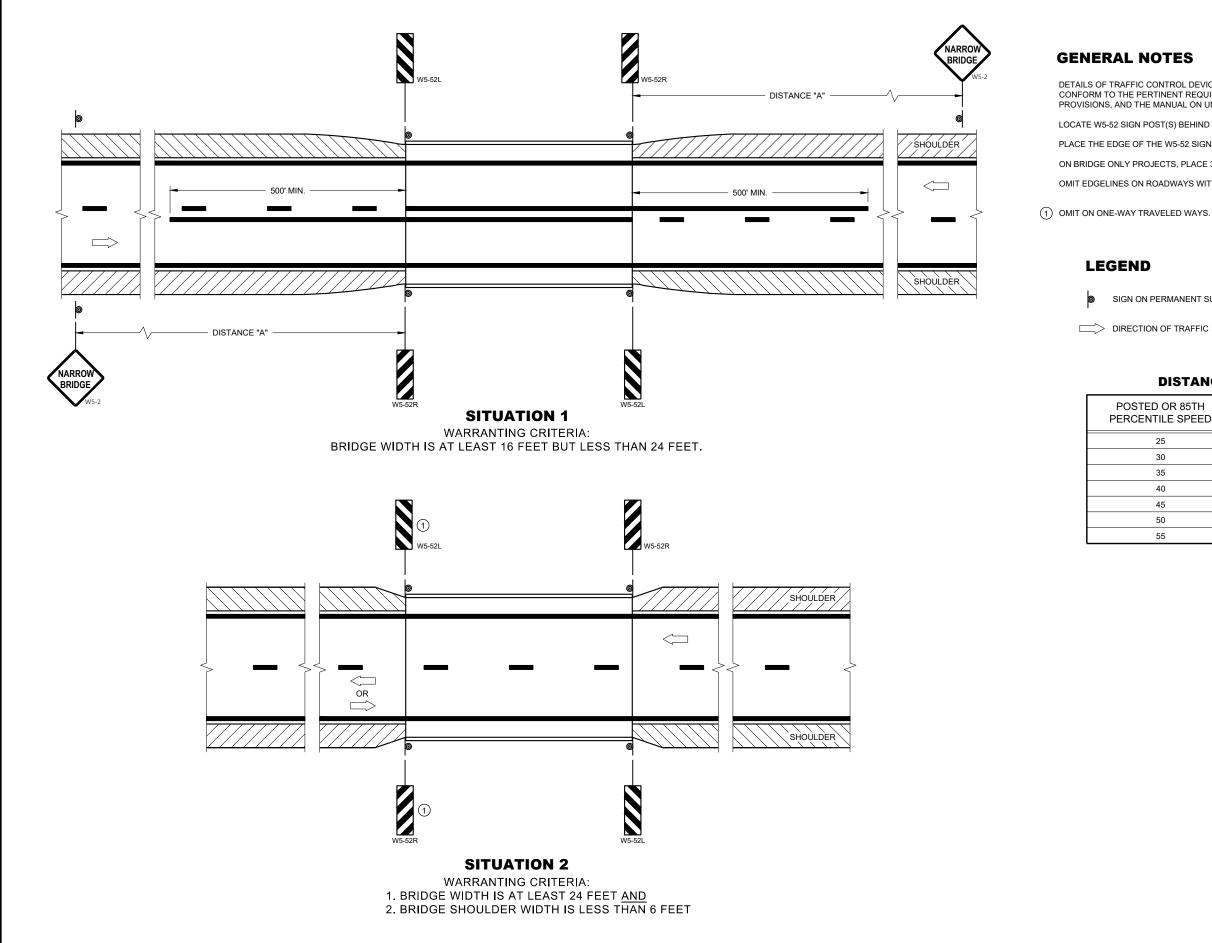
FULL ROAD CLOSURES.

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)
 - 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)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.
- (3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE SIGNS AS SHOWN.
- (7)"EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.





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

0 7 **C**06 Ñ -۵ SD

SIGNING AND MARKING FOR TWO LANE BRIDGES

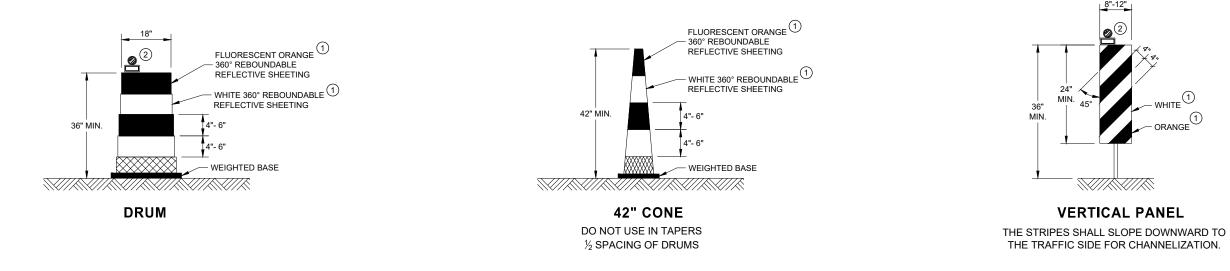
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

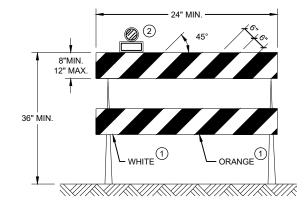
APPROVED May 2022 DATE

/S/ Jeannie Silver STATE SIGNING AND MARKING ENGINEER

GENERAL NOTES

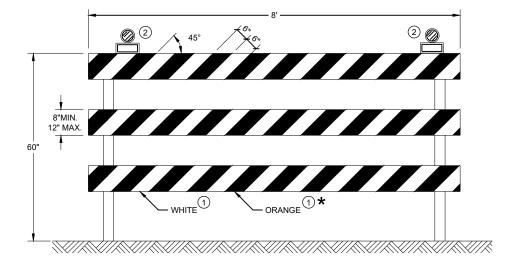
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





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.

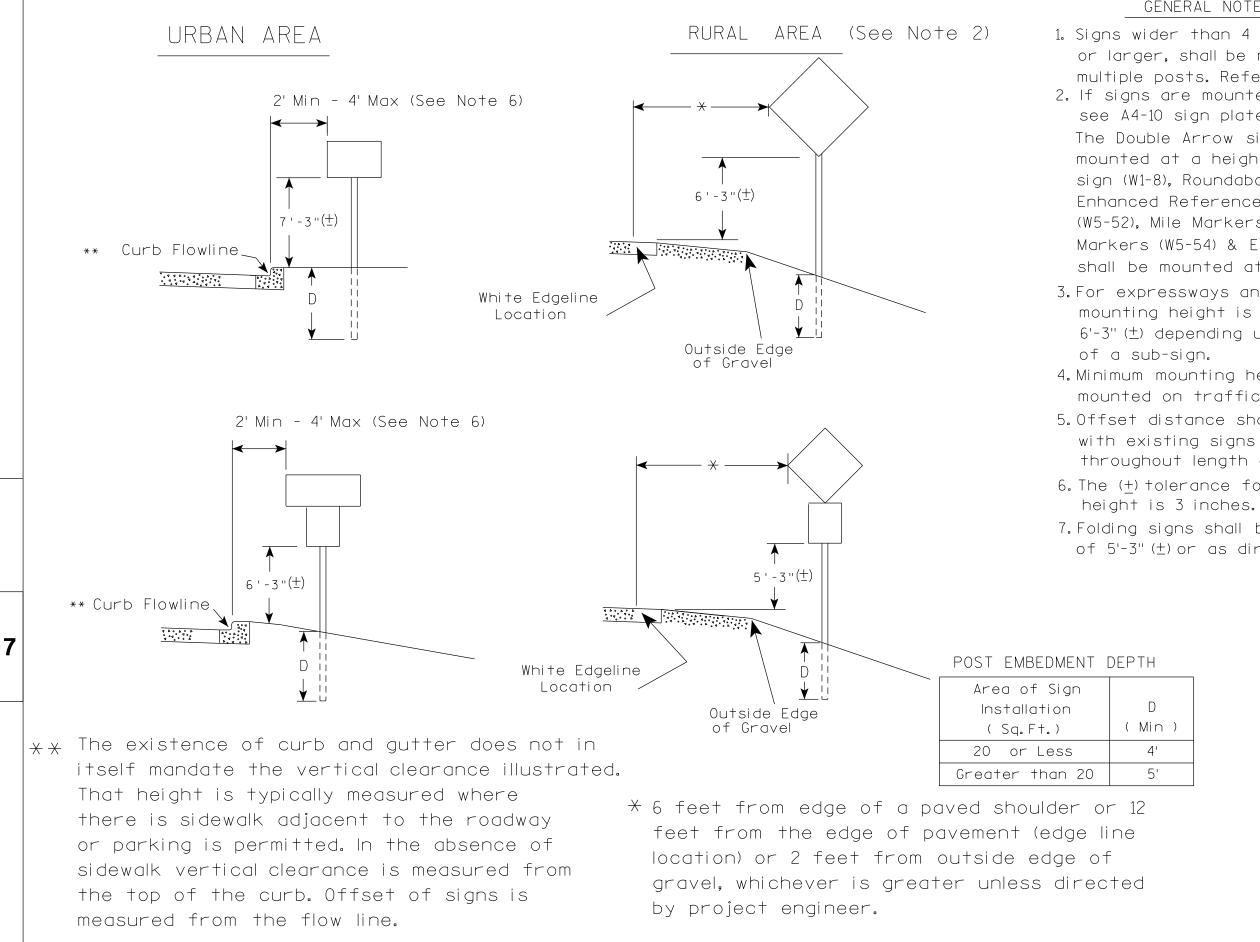
Ω **60** . ~ ~ 0 Ň ~ ົ

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2021 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER

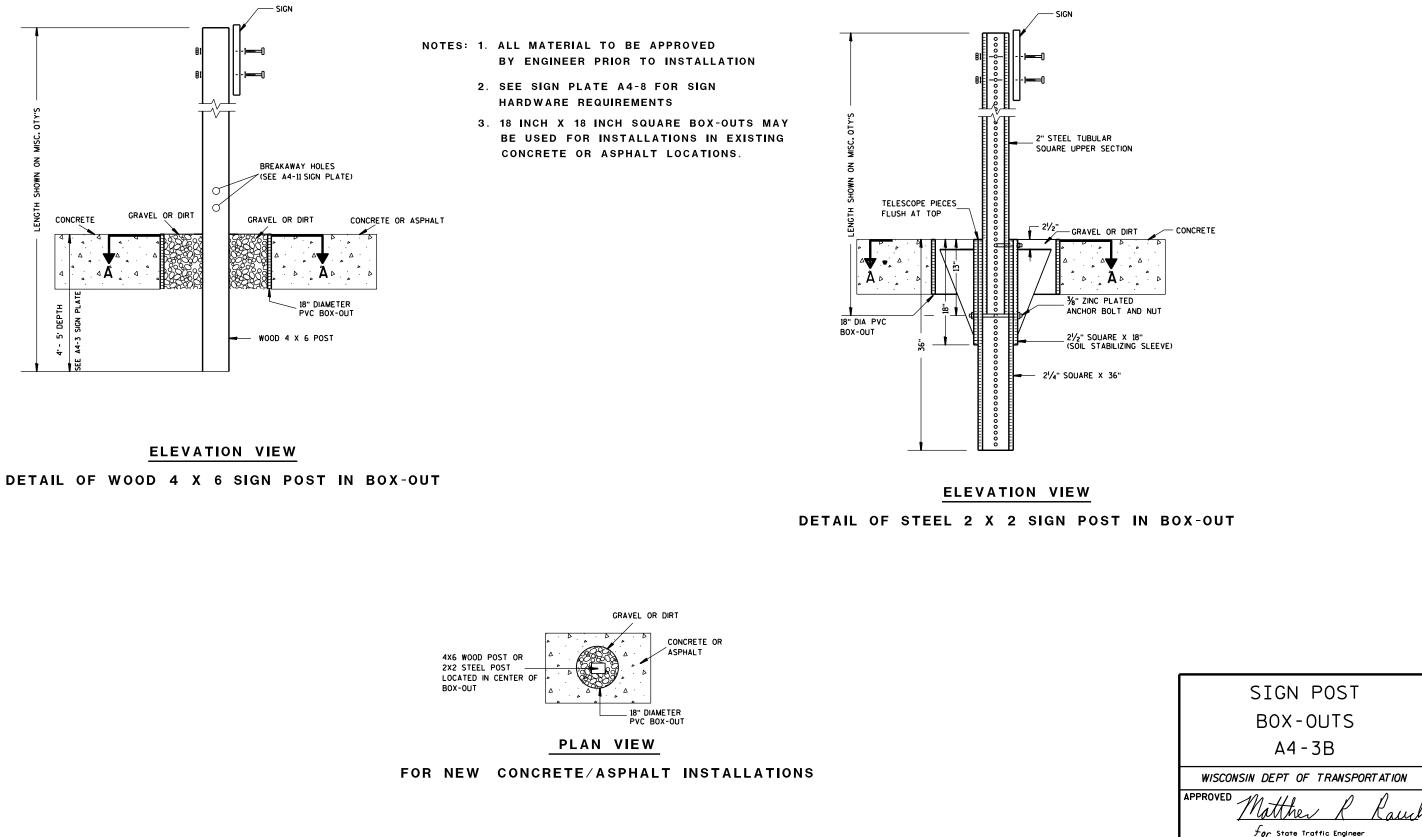


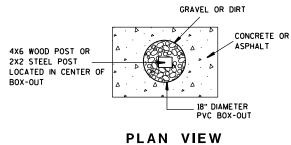
PROJECT NO:	HWY:	COUNTY:			
			DI AT DATE : 43 MAN 0000 4 0	A DI AT DY I IO	DLOT NAME -

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





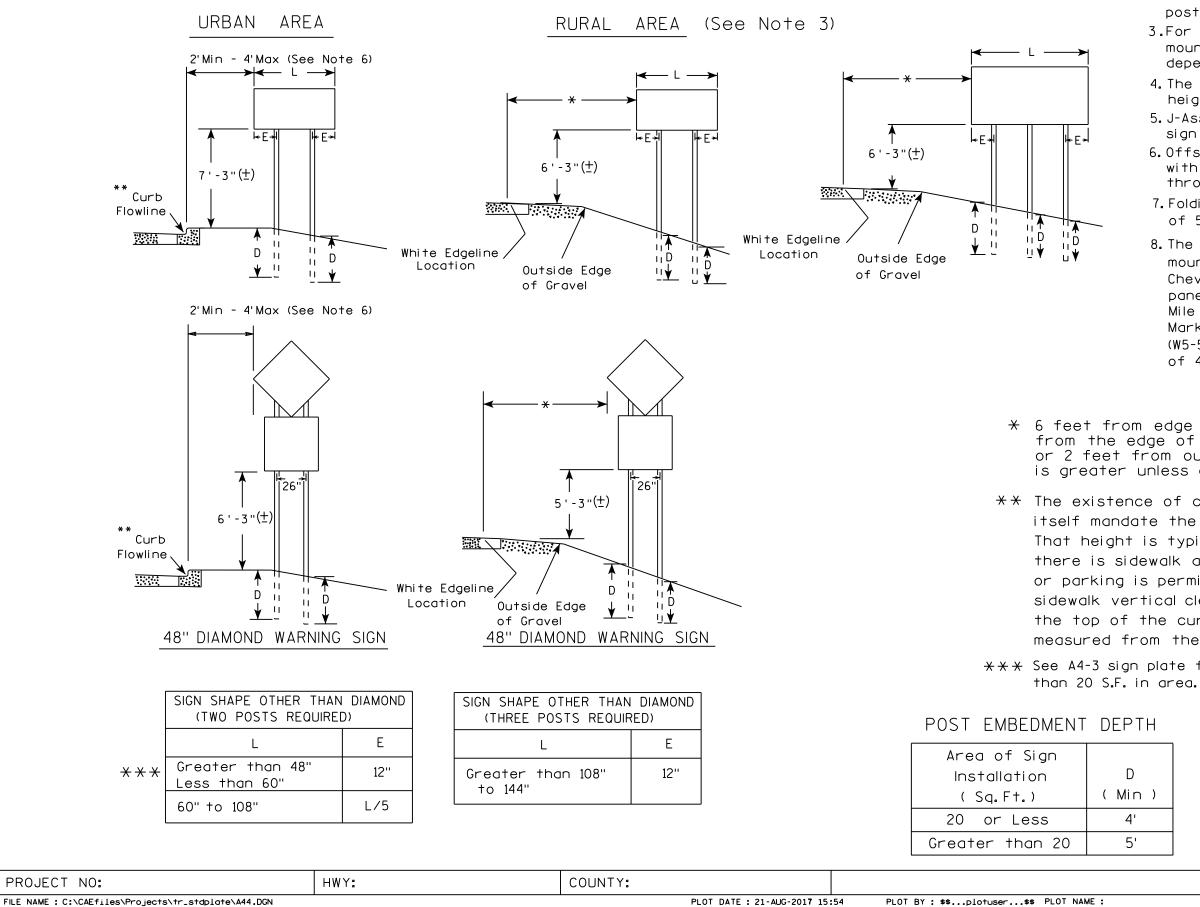
PROJECT NO:	HWY:	COUNTY:				
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN			PLOT DATE : 27-JAN-2014 09:4	8	PLOT BY : mscsja	PLOT NAME :

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.

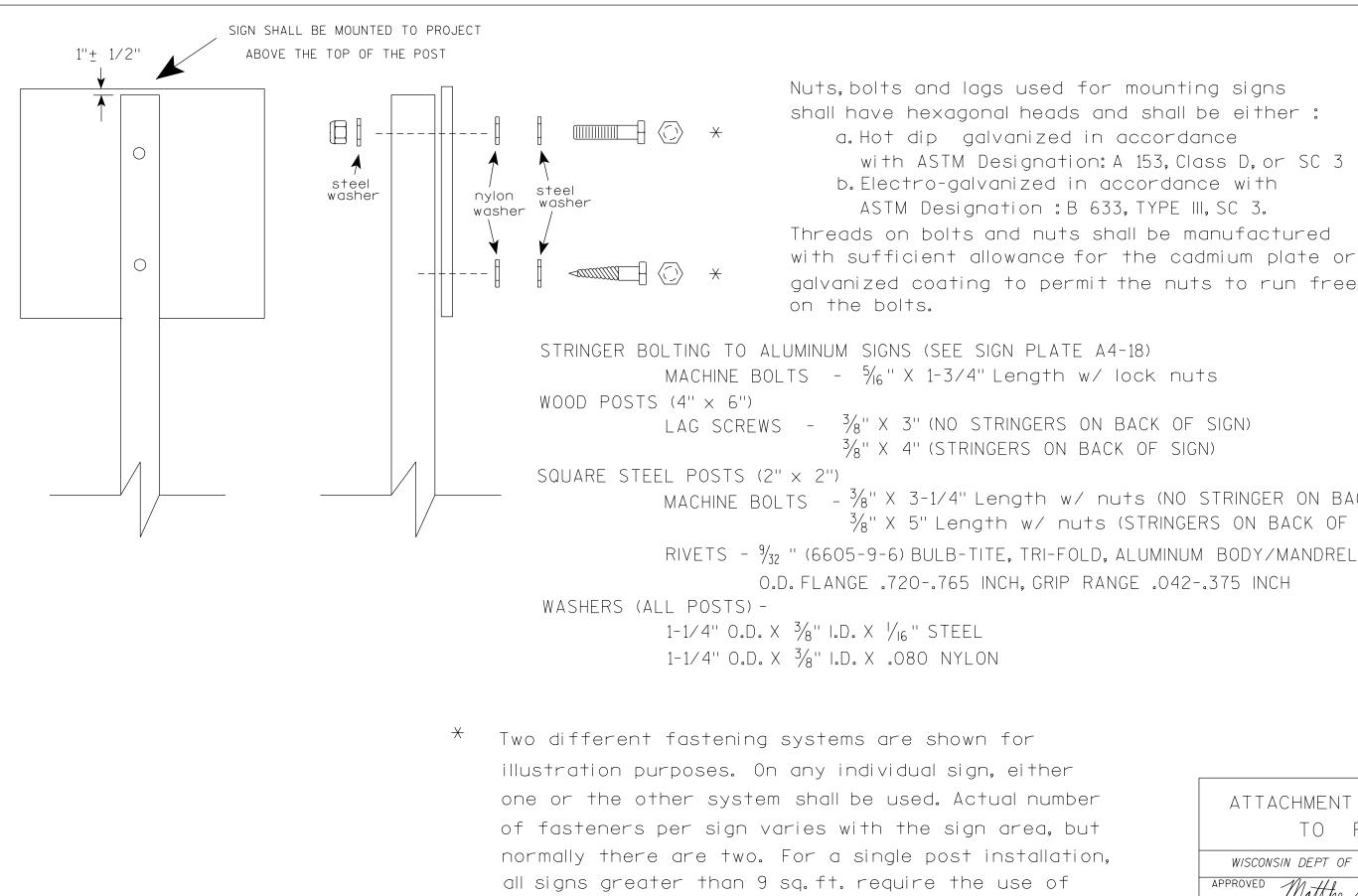
** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs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

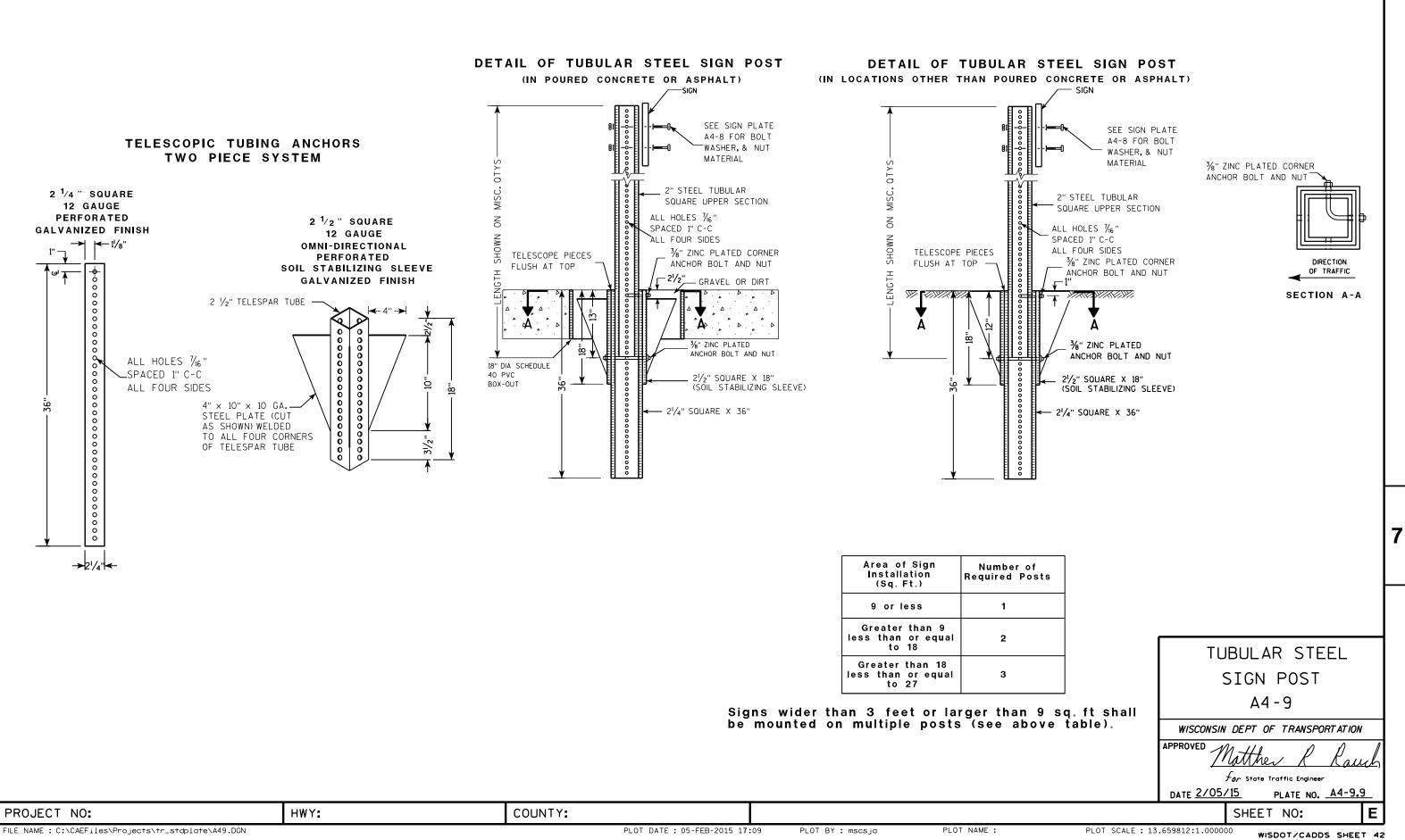
3 fasteners.

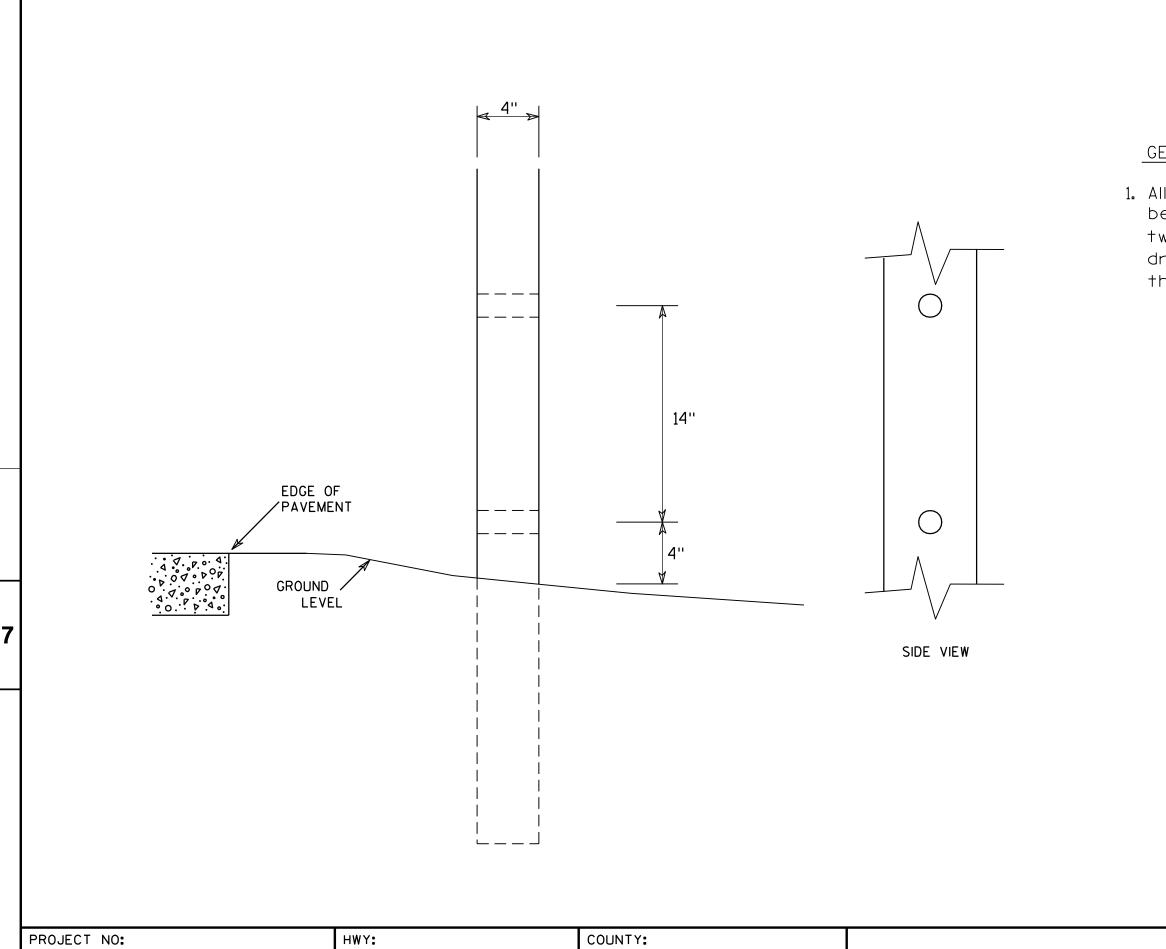
Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either : a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3 b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3. Threads on bolts and nuts shall be manufactured 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 - ³/₈" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

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



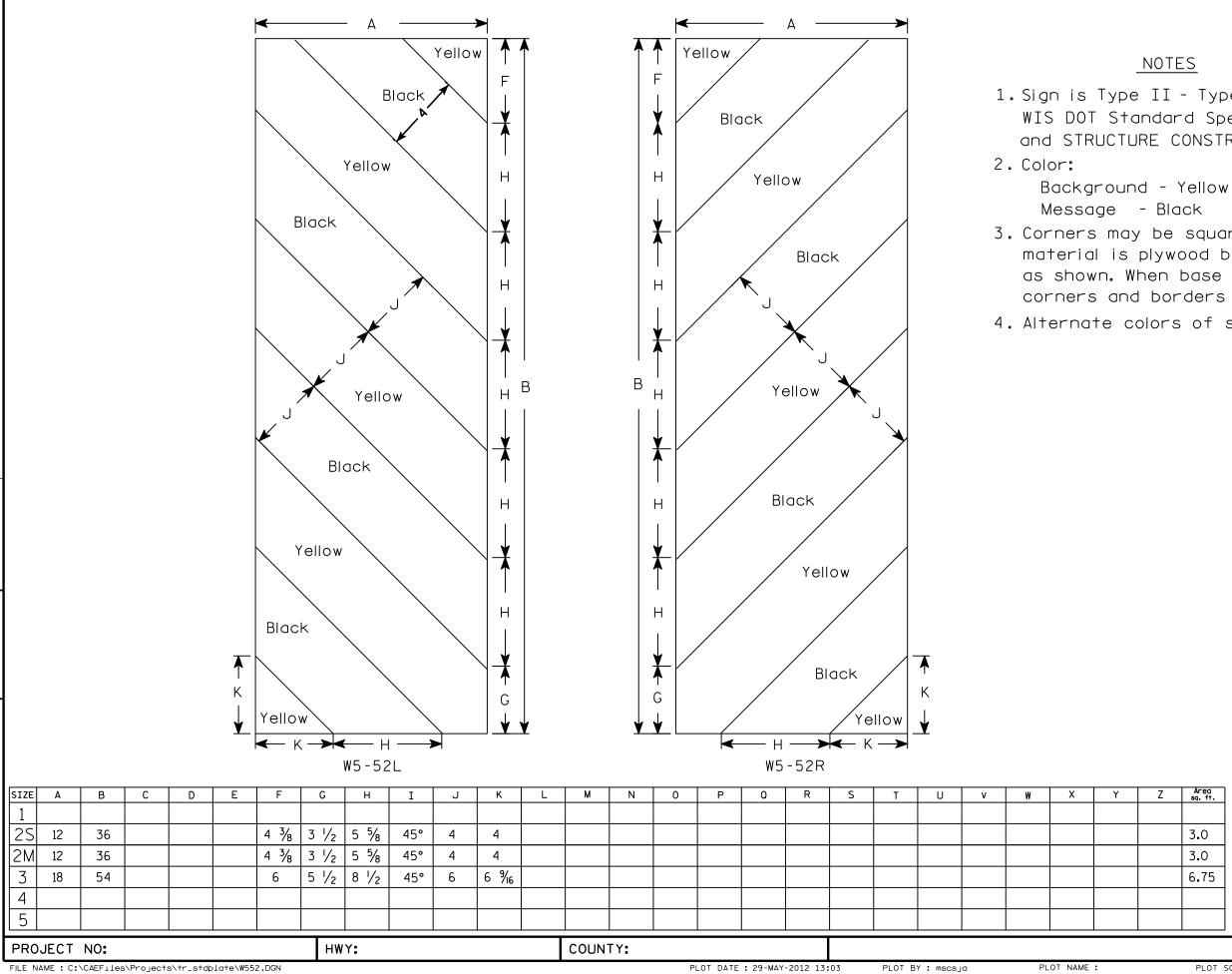


FILE NAME : C:\Users\Projects\tr_stdplate\A411.DGN

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					
	MODIFICATIONS										
	WISCONSIN DEPT OF TRANSPORTATION										
	APPROVED J Spane										
		for State Traffic Engineer									
	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 7 33	8:1.0000	000	WISD	от/с	ADDS SHEE	т 42				



FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W552.DGN

7

PLOT NAME :

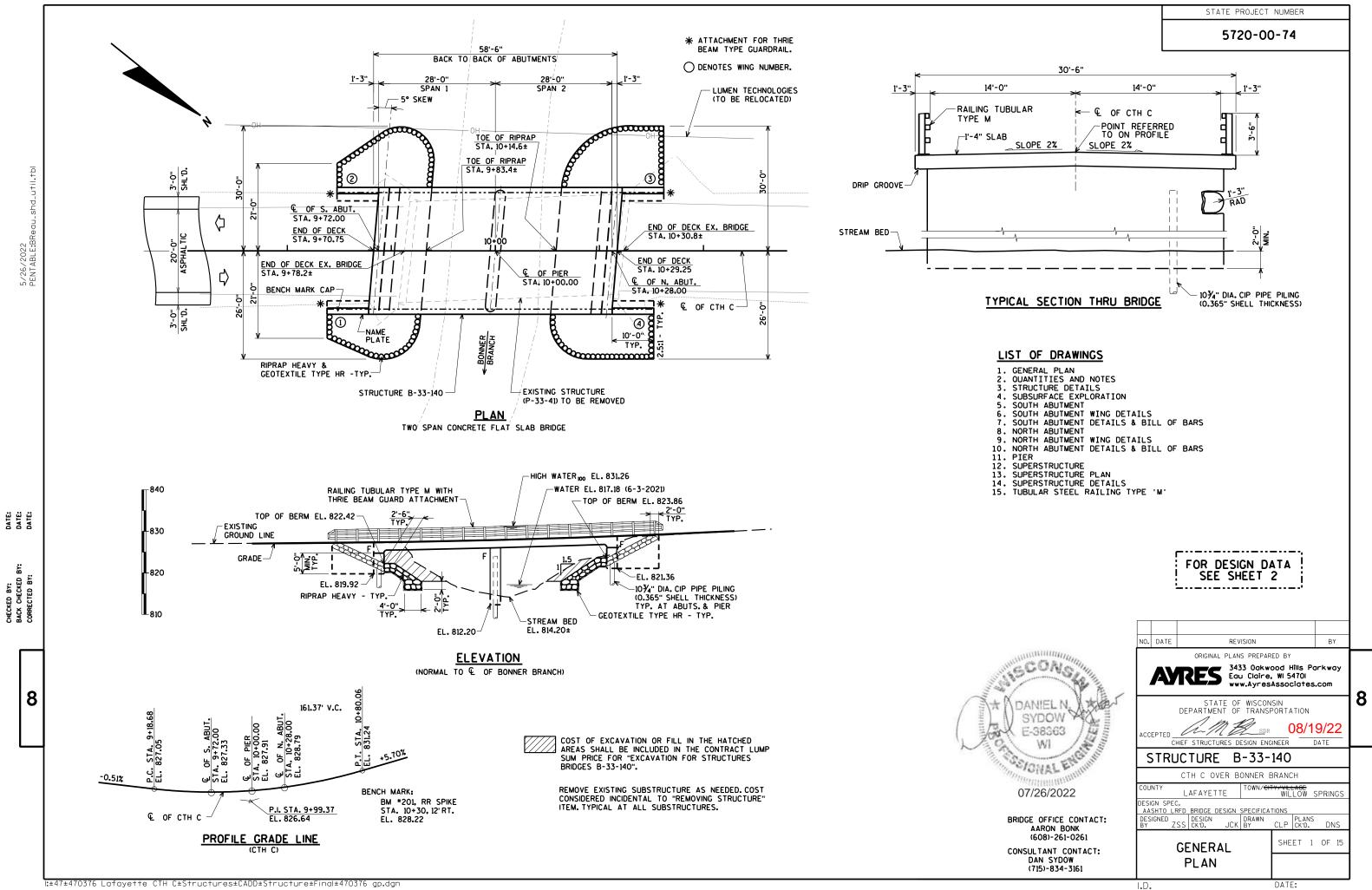
NOTES

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





TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	ŲNIT	S. ABUT.	PIER	N. ABUT,	SUPER,	TOTAL	CATEGORY 0020	CATEGORY 0030
203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-33-41	EACH					1	1	
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-33-140	EACH					1	1	
210.1500	BACKFILL STRUCTURE TYPE A	TON	110		110		220	220	
502.0100	CONCRETE MASONRY BRIDGES	CY	29.0	38.0	29.5	92.8	190	169	21
502.3200	PROTECTIVE SURFACE TREATMENT	SY				230	230	230	
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	L8	1.750	1,780	1.780		5,310	4,740	570
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	L8	1,320	60	1,360	19,680	22,420	20,520	1,900
513.4061	RAILING TUBULAR TYPE M	LF				162	152	162	
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	9		9]	18	18	
550.2106	PILING CIP CONCRETE 10 4 × 0.365-INCH	LF	175	245	125		545	545	
606.0300	RIPRAP HEAVY	CY	90		110		200	200	
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	70		70		140	140	
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	50		50		100	100	
645.0120	GEOTEXTILE TYPE HR	SY	170		200		370	370	
	NON-BID ITEMS								
	FILLER	SIZE					1/2" & ¥4"	1/2" & 74"	1/2" & 74'

8

DESIGN DATA

LIVE LOAD: DESIGN LOADING: HL-93 INVENTORY RATING FACTOR: 1.18 OPERATING RATING FACTOR: 1.53 WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) + 250 KIPS

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 */S.F.

MATERIAL PROPERTIES:

INCRETE NASONRY (4,000 p.s.i.
CUNCRETE MASUNRY [ALL OTHER	f`c =	3.500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60	0)fy •	60.000 p.s.i.

HYDRAULIC DATA:

100 YEAR FREQUENCY O₁₀₀ - 7,300 c.f.s. {BRIDGE - 882 c.f.s. {OVERFLOW - 6.418 c.f.s. VEL.= 2.52 f.p.s. HW 100 = EL. 831.26 WATERWAY AREA - 350 sq. ft. DRAINAGE AREA + 34,5 sq. mi. SCOUR CRITICAL CODE = 5

02 - 1,580 c.f.s. VEL.: 1.45 f.p.s. H#2 = EL. 829.67 ROAD OVERTOPPING FREQUENCY

2 YEAR FREQUENCY

O_{LD} 770 c.f.s. HW_{LM} EL. 827.08 FREQUENCY . 1.19 YEARS

REGULATORY HIGH WATER 835.2' FROM PECATONICA RIVER

FOUNDATION DATA:

DATUM - NAVD88 (2012)

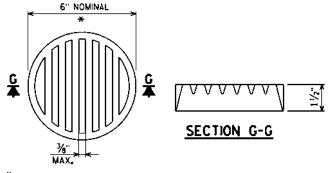
ABUTMENTS TO BE SUPPORTED ON 1034" DIA. CIP PIPE PILING (0.365" SHELL THICKNESS) DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 100 TONS # PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA, ESTIMATED LENGTH 35'-O" AT THE SOUTH ABUTMENT AND 25'-O" AT THE NORTH ABUTMENT.

PIER TO BE SUPPORTED ON 10%" DIA, CIP PIPE PILING (0.365" SHELL THICKNESS) DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 150 TONS # PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED LENGTH 35'-0".

*****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:

(2023)
(2043)
₩.Р.Н.



* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

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

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





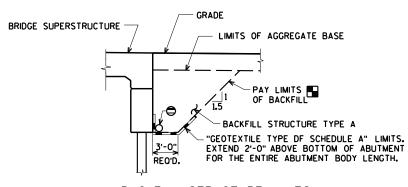


STATE PROJECT NUMBER

5720-00-74

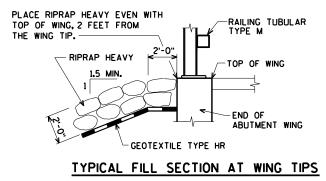
GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE. THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE. JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213. THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON THE GENERAL PLAN SHEET AND IN THE ABUTMENT DETAILS. SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATIVE METHOD IS APPROVED BY THE ENGINEER. THE ENGINEER. THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-33-40" SHALL BE THE EXISTING GROUNDLINE. THE EXISTING STRUCTURE, P-33-41 TO BE REMOVED, IS A SINGLE SPAN STEEL DECK GRDER BRIDGE ON CONCRETE AND TIMBER ABUTMENTS, 54 FEET LONG WITH A 24.4 FOOT CLEAR ROADWAY WIDTH. PROTECTIVE SURFACE TREATMENT IS TO BE APPLIED AS SHOWN IN DETAIL ON THIS SHEET. BEVEL EXPOSED EDGES OF CONCRETE 34" UNLESS NOTED OTHERWISE. EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-O" ABOVE BOTTOM OF ABUTMENT. 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. EXISTING SUBSTRUCTURE LOCATIONS ARE BASED ON SURVEY. EXTENT OF BELOW GRADE SUBSTRUCTURES ARE NOT KNOWN, REMOVE EXISTING SUBSTRUCTURES AS NEEDED TO BUILD NEW SUBSTRUCTURES. COST OF SUBSTRUCTURE REMOVAL IS CONSIDERED INCIDENTAL TO "REMOVING STRUCTURE" BID ITEM. AT PIER, CONCRETE POURED UNDERWATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS. LIMITS OF PROTECTIVE SURFACE TREATMENT PROTECTIVE SURFACE TREATMENT DETAIL 8 NO. DATE REVISION 8 Y STATE OF WISCONSIN DEPARTMENT OF TRANSFORTATION STRUCTURE B-33-140 ORAWN BY CLP CKD. JĊK RIGINAL PLANS PREPARED SHEET 2 OF 15 QUANTITIES 3433 Oakwood Hills Parkway Eau Cloire, #1 54701 AND NOTES

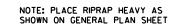


BACKFILL STRUCTURE LIMITS

- BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- ➡ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 2.



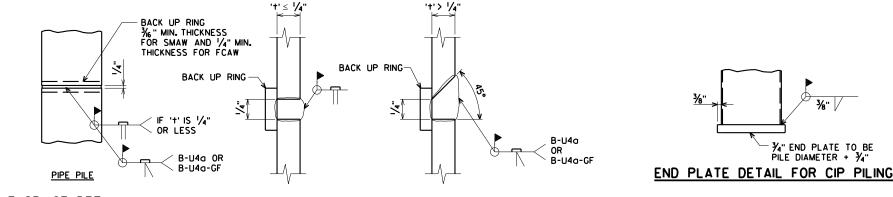
‰'



8

þ

4/22/2022 PENTABLE:BRe



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

CIP PILE WELD DETAIL



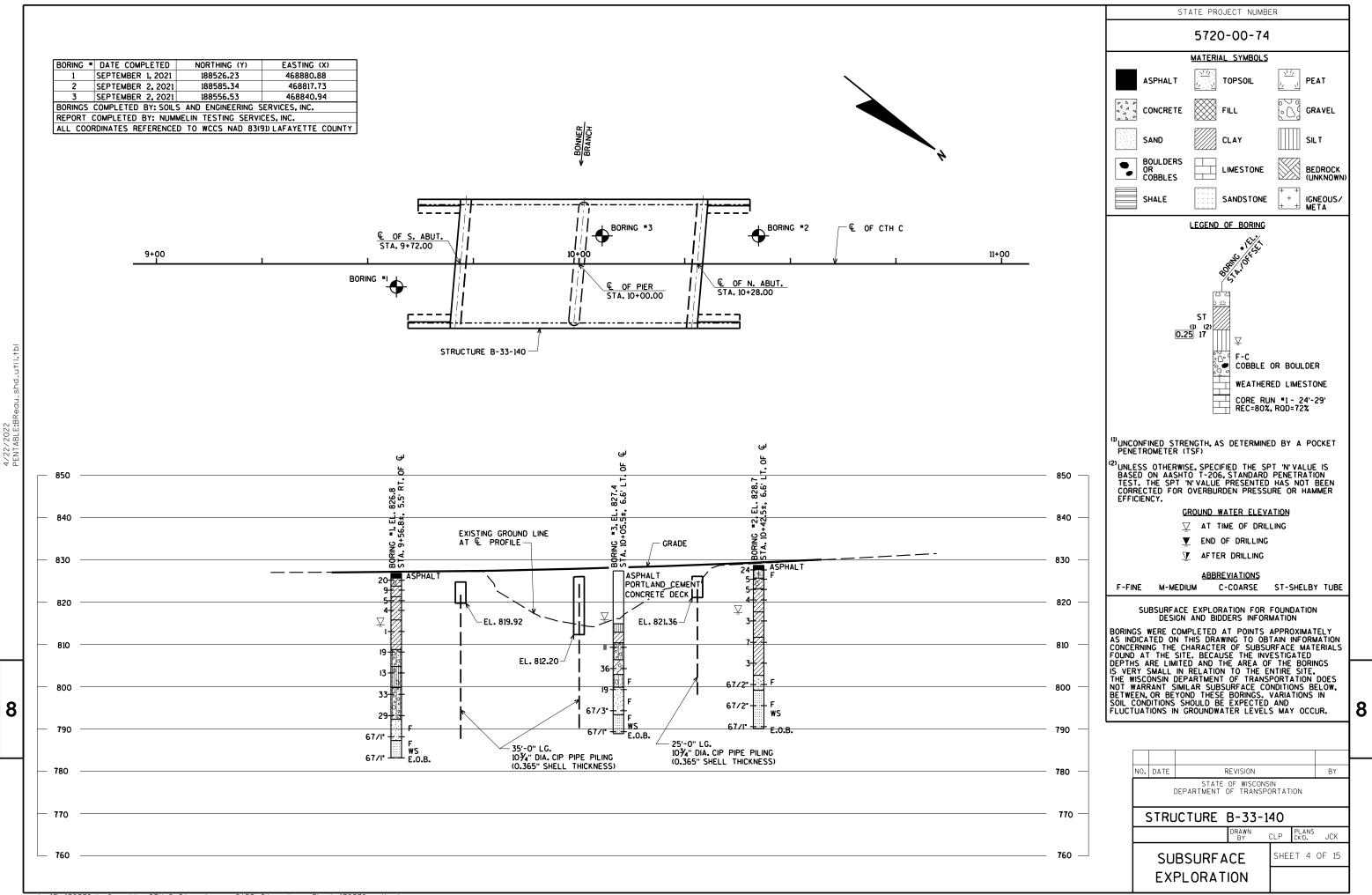
-¾"END PLATE TO BE PILE DIAMETER +¾"

I:±47±470376 Lafayette CTH C±Structures±CADD±Structure±Final±470376 gp.dgn

2								8
	NO.	DATE		REVISION			BY	
			STATI DEPARTMENT	E OF WISCON		ION		
	<u> </u>	STRL	JCTURE		40			
				DRAWN BY	CLP	PLANS CK'D.	JCK	
ans prepared by 433 Oakwood Hills Parkway au Claire, Wi 54701 ww.AyresAssociates.com			RUCTU		SHEE	et 3	OF 15	
					•			•

STATE PROJECT NUMBER

5720-00-74

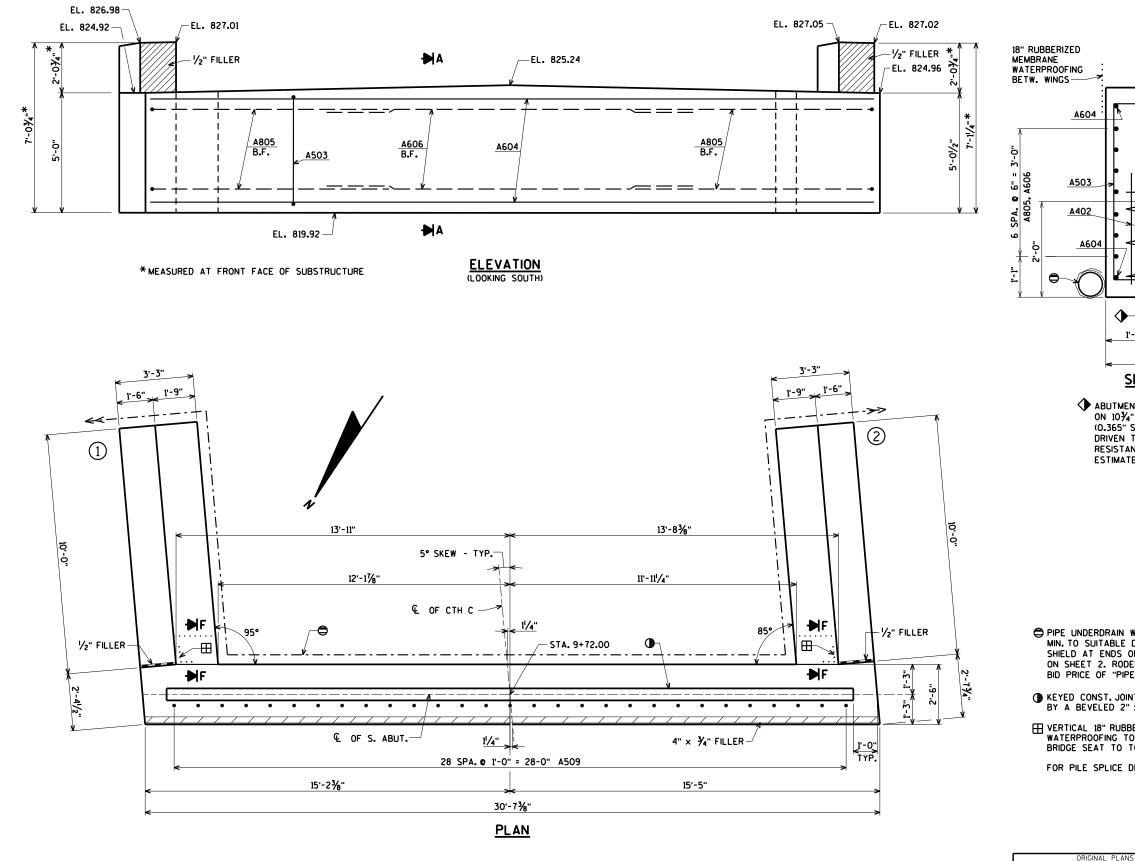




5/6/2022 PFNTABLF:

8

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF V_2^* FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (" DEEP AND HOLD V_8^* BELOW SURFACE OF CONCRETE).



I:±47±470376 Lafayette CTH C±Structures±CADD±Structure±Final±470376 sa.dgn

	BARS I'-O''.
A LEAP ROOF IND ETW. WINGS A 604 A 401 A 402 A	SUPERSTRUCTURE DF ABUTMENT BERIZED MEMBRANE PROOFING BETWEEN
	SECTION F
 PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE O MIN. TO SUITABLE DRAINAGE. ATTACH RODEN' SHIELD AT ENDS OF PIPE UNDERDRAIN AS DE ON SHEET 2. RODENT SHIELD TO BE INCIDEN BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6- KEYED CONST. JOINT - FORMED BY A BEVELED 2" × 6". 	TAILED TAIL TO
➡ VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM BRIDGE SEAT TO TOP OF WINGWALL.	
FOR PILE SPLICE DETAIL SEE SHEET 3.	NO. DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
	STRUCTURE B-33-140
	DRAWN BY CLP PLANS BY CLP CKD. JCK
ORIGINAL PLANS PREPARED BY 3433 Oakwood Hills Parkway Eau Claire, WI 54701 www.AyresAssociates.com	SOUTH ABUTMENT
	L L

- € OF S. ABUT,

A507

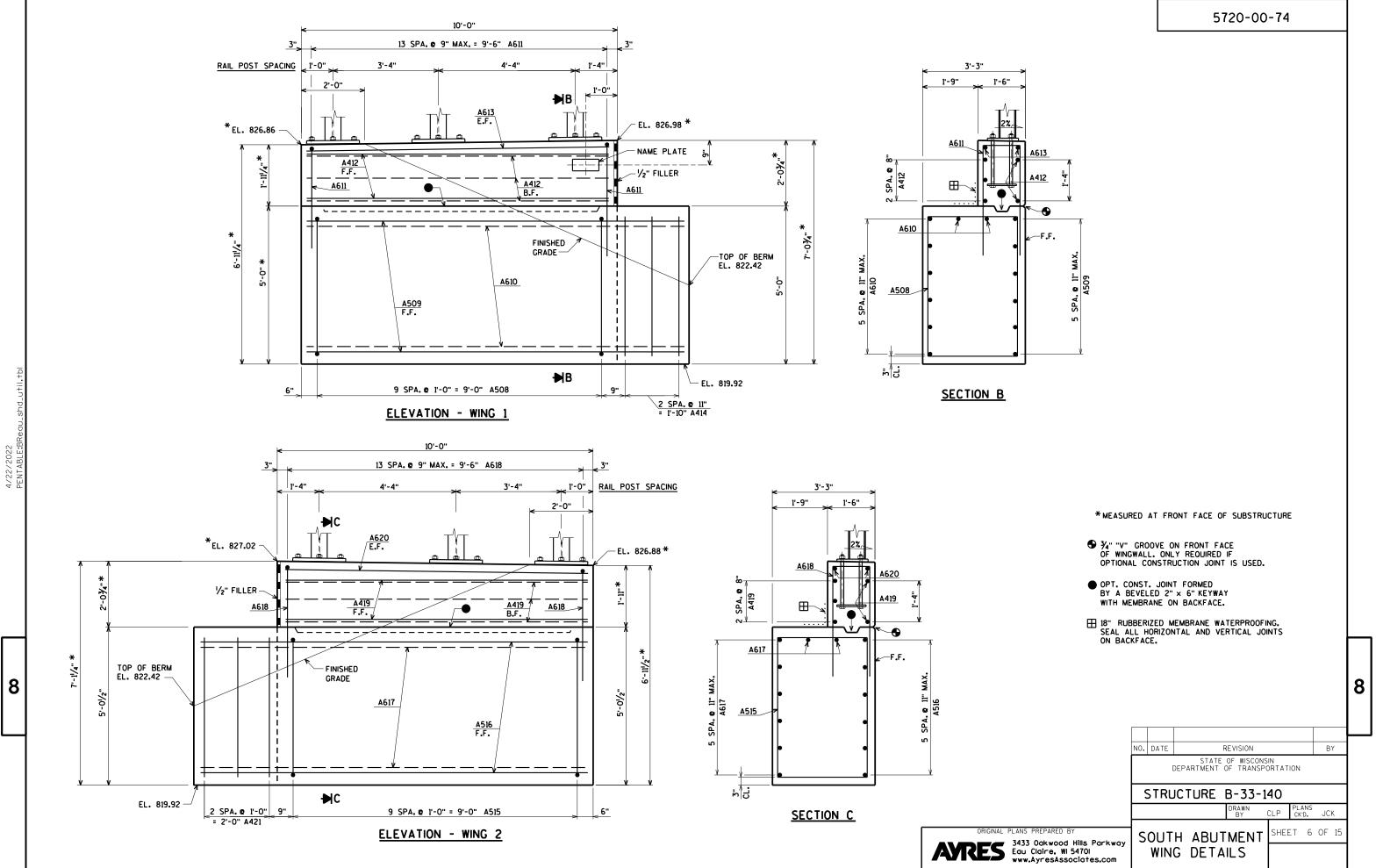
-4"×⅔4" FILLER

4"

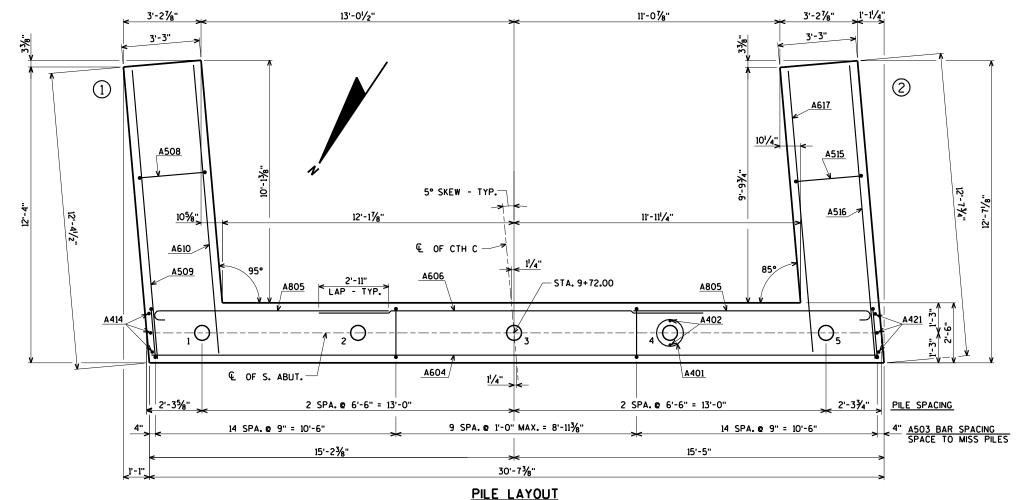
STATE PROJECT NUMBER

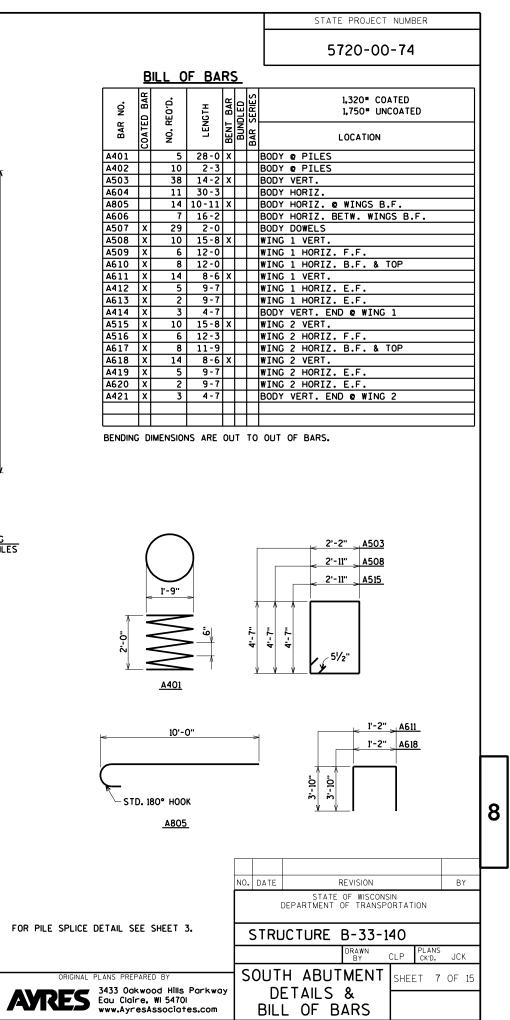
5720-00-74

A507 BARS MAY BE PLACED AFTER ABUT. IS POURED BUT BEFORE CONC. HAS SET. EMBED



STATE PROJECT NUMBER





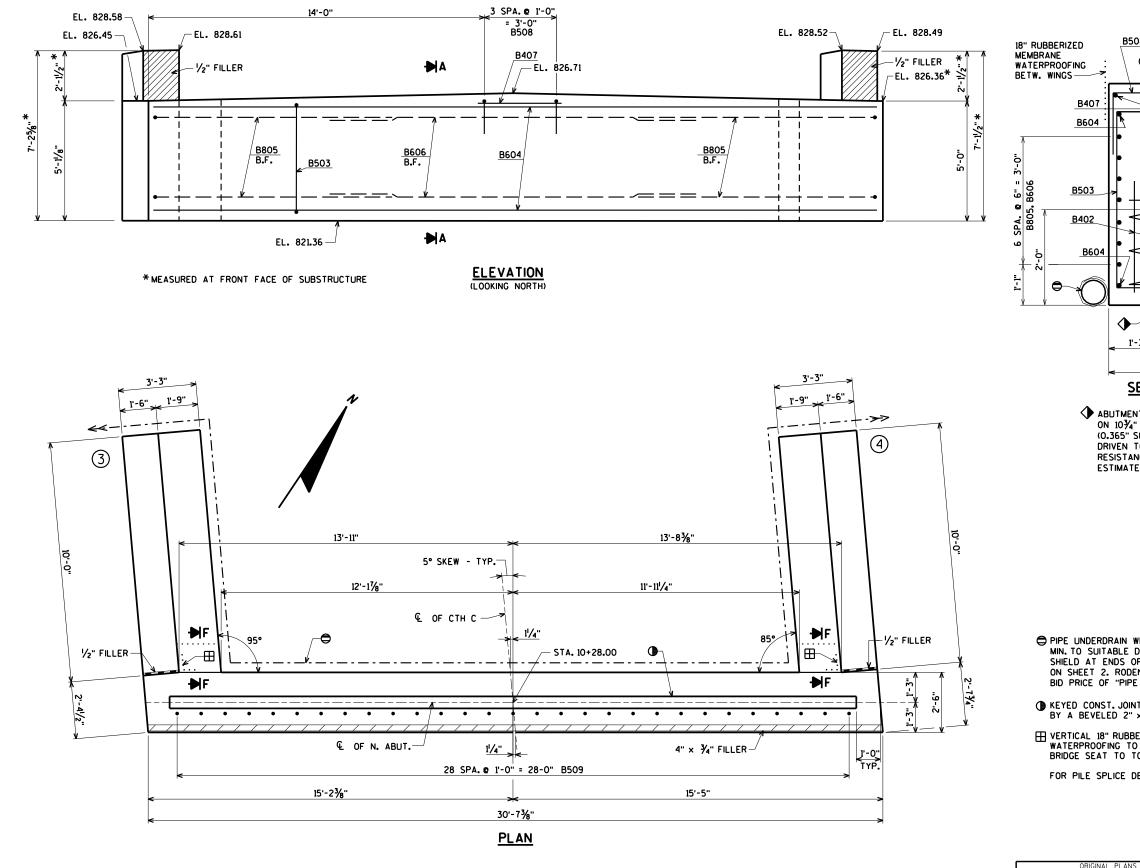
l:±47±470376 Lafayette CTH C±Structures±CADD±Structure±Final±470376 sa.dgn



5/6/2022 PFNTABLF:

8

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF V_2^* FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (" DEEP AND HOLD V_8^* BELOW SURFACE OF CONCRETE).

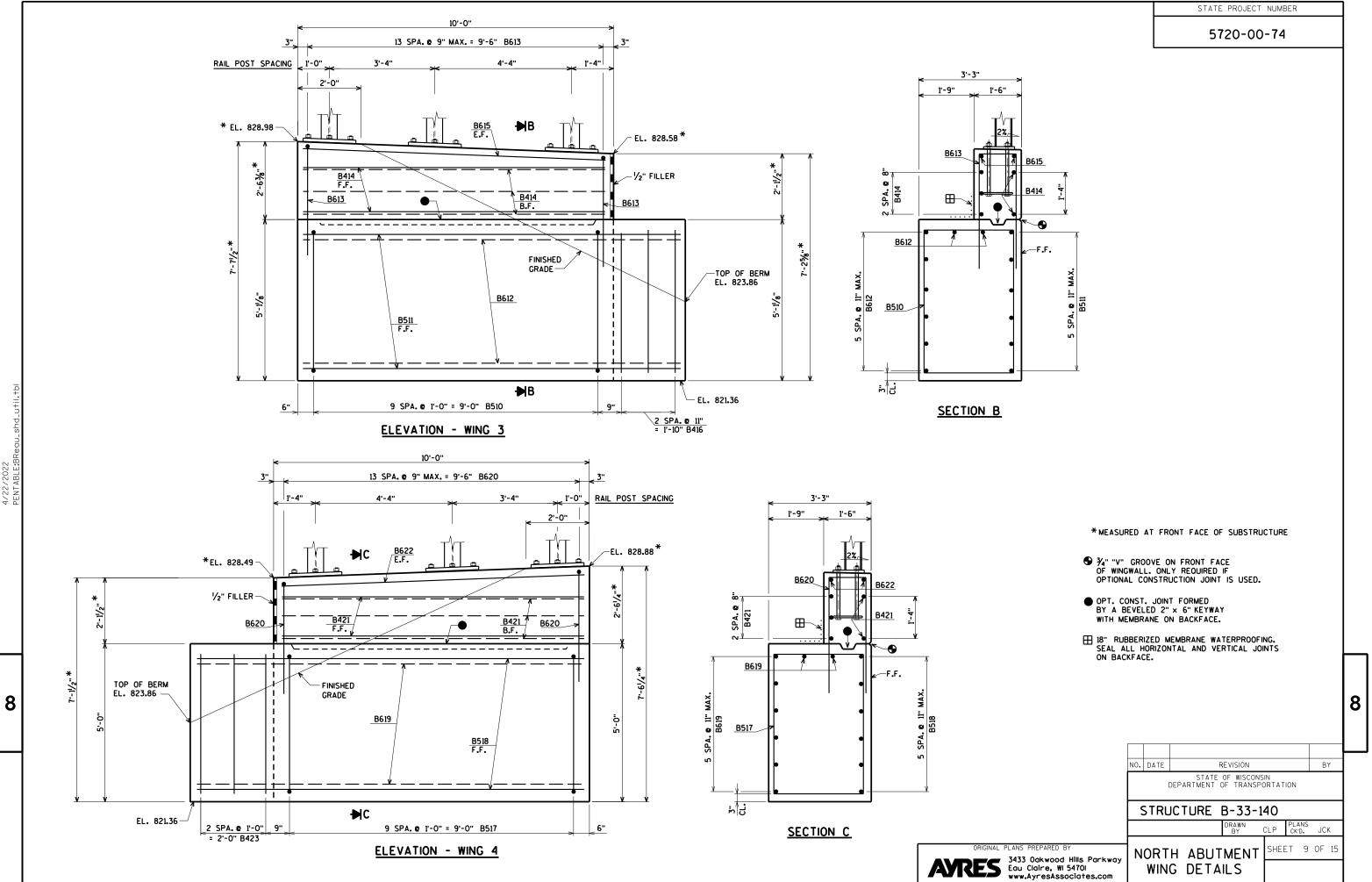


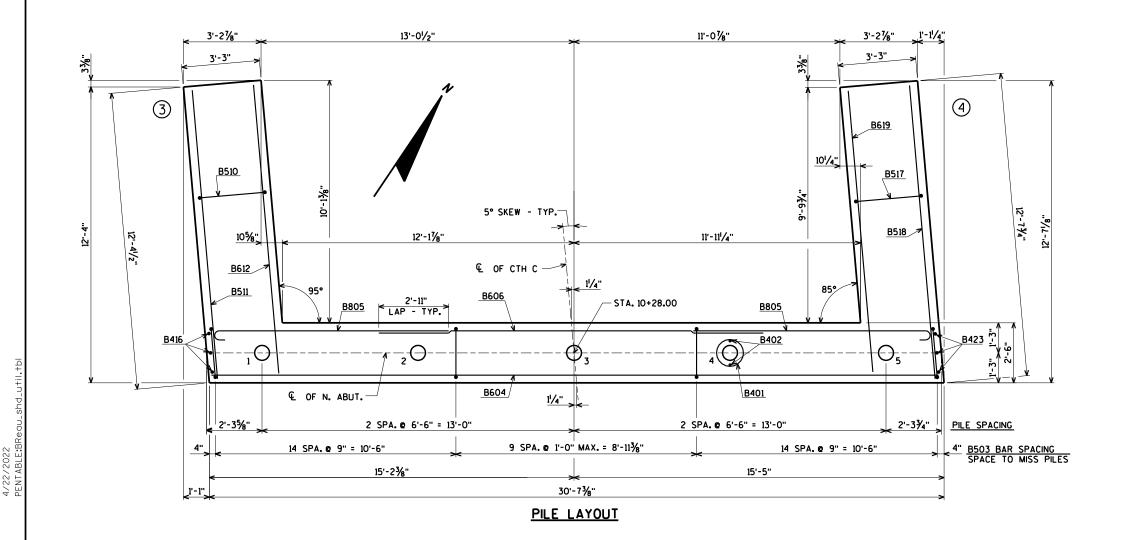
I:±47±470376 Lafayette CTH C±Structures±CADD±Structure±Final±470376 na.dgn

€ OF N. ABUT			
	B509 BARS M PLACED AFTEI IS POURED BL X ¾" FILLER CONC. HAS SE BARS 1'-0". ¼" BEVEL ALL HORIZONTAL BARS	R ABUT. IT BEFORE T. EMBED	
B407 B604 B604 B401 B402 B402 B402 B402 B402 B402 B402 B402 B402 B402 B402 B402 B402 B402 B402 B402 Comparing Comparing Co	BODY ARE B604 BARS SHOWN OTHERWISE. F.F. 2'-6" TOP OF BERM EL. 823.86 11/2 1 5 5 7 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7	33" MIN. TO 541/4" MAX.	
18" RUE WATERF WINGWA	ABUTMENT		
PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE O MIN. TO SUITABLE DRAINAGE. ATTACH RODEN SHIELD AT ENDS OF PIPE UNDERDRAIN AS DI ON SHEET 2. RODENT SHIELD TO BE INCIDEN BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6	T ETAILED ITAL TO		
♥ KEYED CONST. JOINT - FORMED BY A BEVELED 2" × 6". ₩ VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM			8
BRIDGE SEAT TO TOP OF WINGWALL. FOR PILE SPLICE DETAIL SEE SHEET 3.	NO. DATE REVISION STATE OF WISCON DEPARTMENT OF TRANSP	ORTATION	
	STRUCTURE B-33-1	L40 CLP PLANS CK'D. JCK	
ORIGINAL PLANS PREPARED BY 3433 Oakwood Hills Parkway Eau Claire, WI 54701 www.AyresAssociates.com	NORTH ABUTMENT	SHEET 8 OF 15	

STATE PROJECT NUMBER

5720-00-74

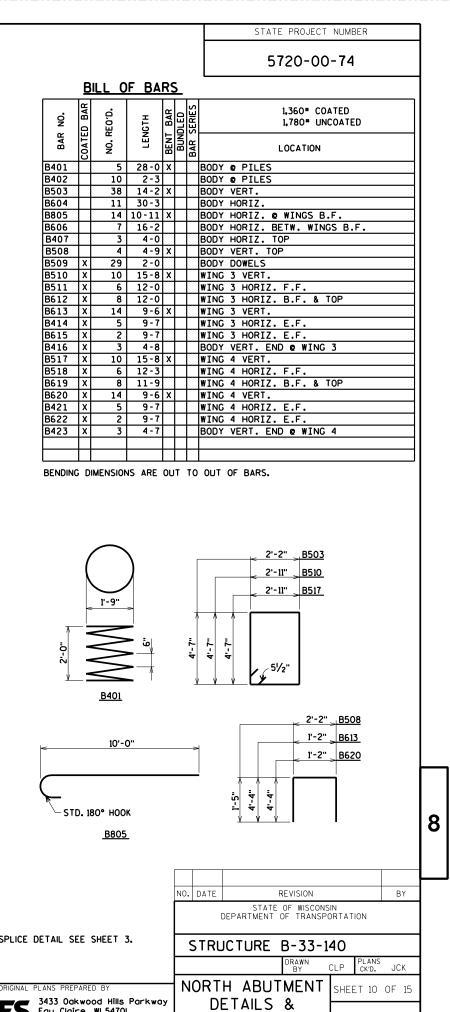




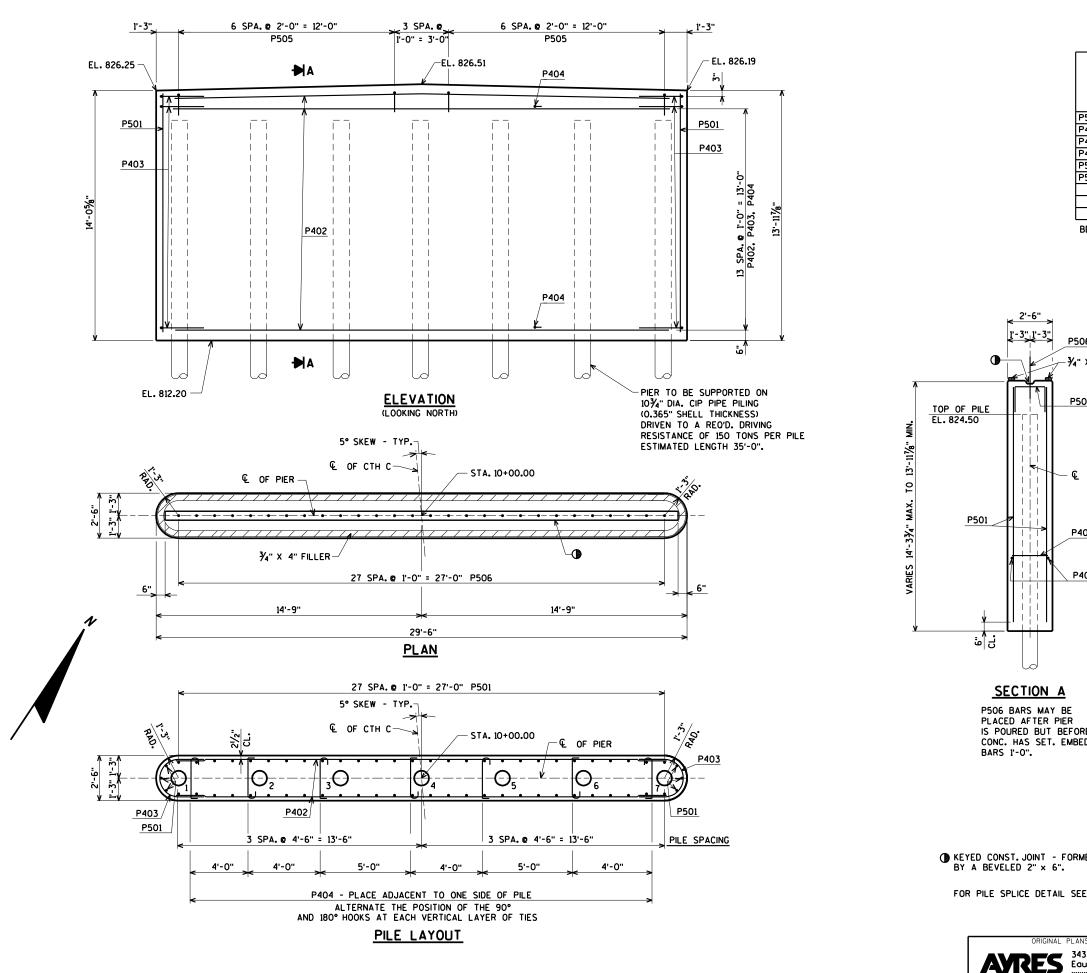
FOR PILE SPLICE DETAIL SEE SHEET 3.



8



BILL OF BARS

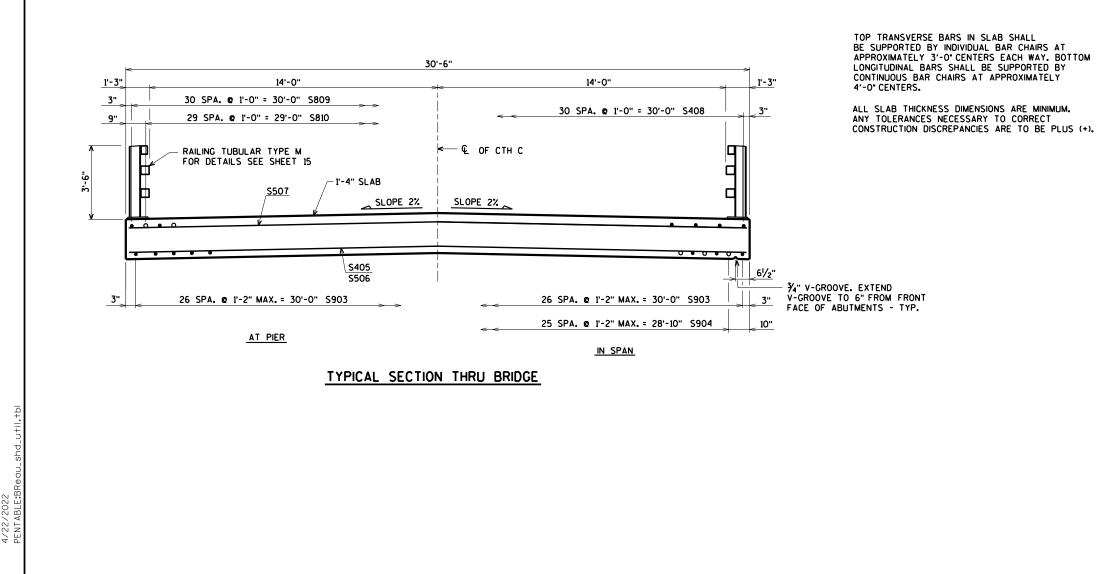


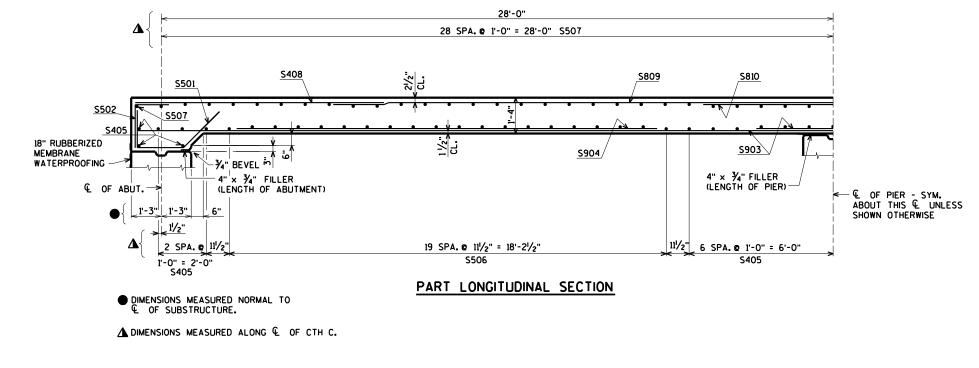
4/22/2022

8

PILE SPLICE DETAIL SEE SHEET 3. ORIGINAL PLANS PREPARED BY A333 Oakwood Hills Parkway Eou Claire, WI 54701 www.AyresAssociates.com
STRUCTURE B-33-140 DRAWN
CLP
PLANS
CLP
PLANS
JCK
SHEET 11 OF 15 SHEET 1

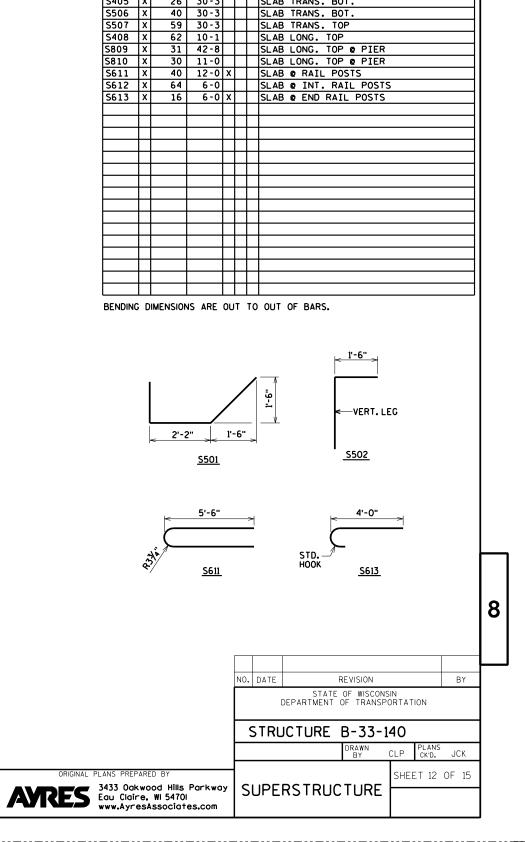
	STATE PROJECT NUMBER	
	5720-00-74	
	-	
BAR NO. 0ATED BA NO. REO'D. LENGTH BENT BAR	BRNDLED 1,780" UNCOATED 2,780" UNCOATED LOCATION	
P501 62 13-3 P402 30 27-0	COLUMN VERT. E.F. COLUMN HORIZ.	
P403 30 6-1 X P404 98 2-10 X P505 16 4-7 X	COLUMN HORIZ. @ ENDS COLUMN TIES	
P505 16 4-7 X P506 X 28 2-0	COLUMN VERT. © TOP COLUMN DOWELS	
BENDING DIMENSIONS ARE O	JT TO OUT OF BARS.	
25.05		
<u>2506</u> Va" X 4" FILLER		
	<u>1'-0¹/2"</u> RAD. <u>1'-5"</u>	
P505	<u>P403</u>	
	6 1 m	
	<u> </u>	
€ OF PIER		
	STD. 180°	
P404	<u>P404</u>	
P402	<mark>≈ 2'-0" ></mark>	
	1. -2	
	<u>P505</u>	
2		
FORE MBED		
		8
DRMED	NO. DATE REVISION	BY
	DEPARTMENT OF TRANSPORTATION	
SEE SHEET 3.	STRUCTURE B-33-140	





l:±47±470376 Lafayette CTH C±Structures±CADD±Structure±Final±470376 sup.dgn

8



BILL OF BARS

LENGTH

BENT E BUNDL BAR SE

62 5-8 X SLAB @ ABUT.

62 3-1 X SLAB @ ABUT.

 S903
 X
 54
 32-4
 SLAB
 LONG.
 BOT.

 S904
 X
 52
 18-5
 SLAB
 LONG.
 BOT.

 S405
 X
 26
 30-3
 SLAB
 TRANS.
 BOT.

REO'D.

°.

ΠED

I X I

Š.

BAR

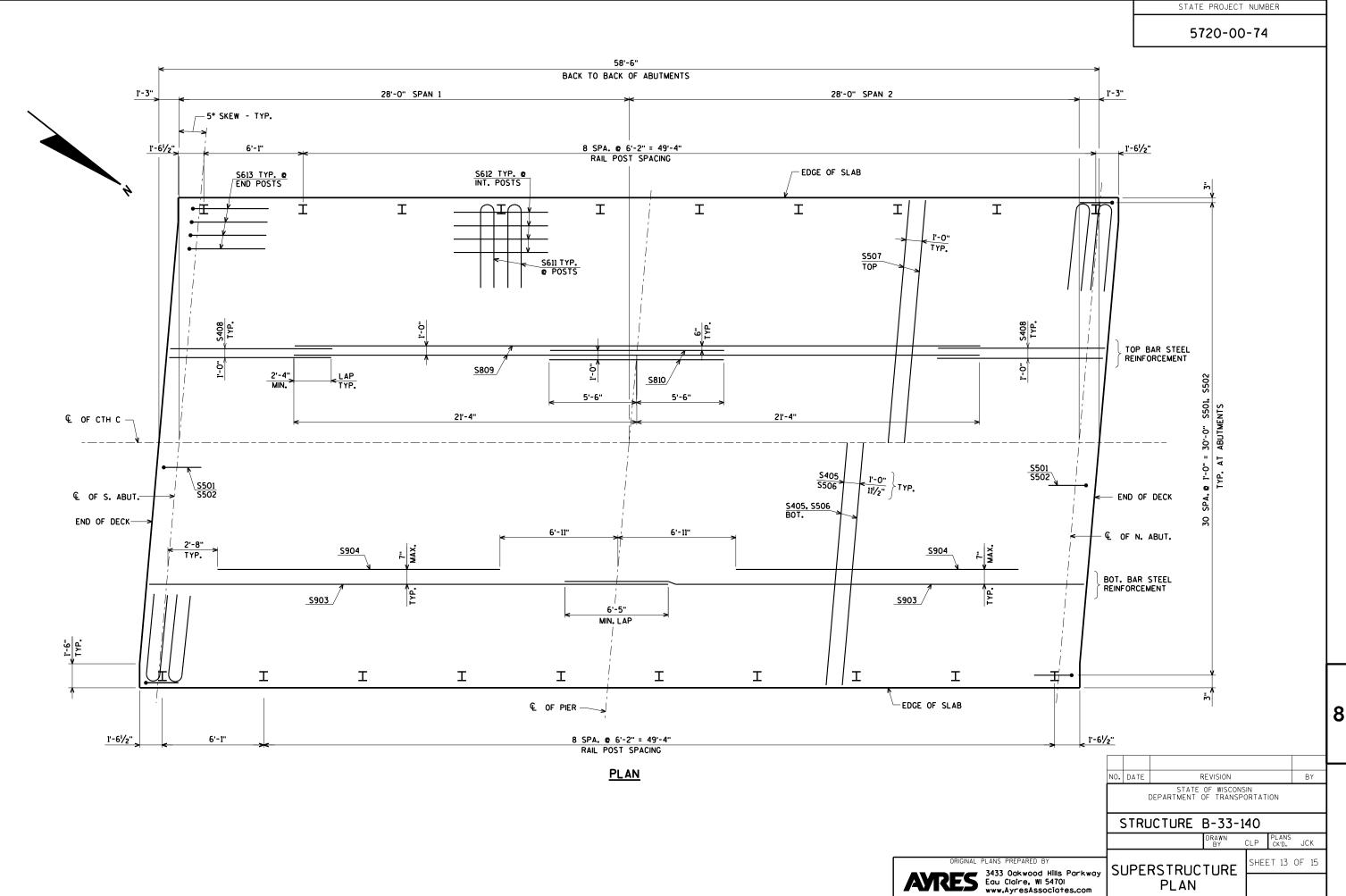
S501

S502 X

STATE PROJECT NUMBER

19.680" COATED

LOCATION



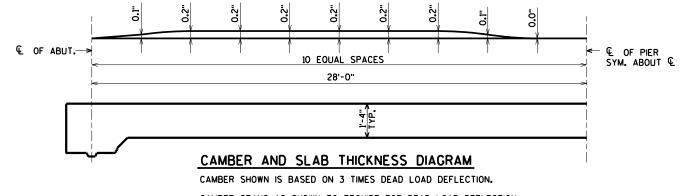
4/22/2022 Pentari F-r



TOP OF DECK ELEVATIONS

ELEVATIONS SHOWN ARE FINISHED DECK AND DO NOT INCLUDE ALLOWANCES OF DEAD LOAD DEFLECTION AND FUTURE CREEP.

LOCATION	€ OF S. ABUT.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	€ OF PIER	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	€ OF N. ABUT.
W. EDGE OF SLAB	827.04	827.09	827.14	827.19	827.24	827.30	827.36	827.43	827.50	827.57	827.64	827.72	827.79	827.88	827.96	828.05	828.14	828.24	828.33	828.43	828.54
€ OF STRUCTURE	827.33	827.37	827.42	827.47	827.52	827.58	827.64	827.70	827.77	827.84	827.91	827.98	828.06	828.14	828.23	828.31	828.40	828.50	828.59	828.69	828.79
E. EDGE OF SLAB	827.00	827.04	827.09	827.14	827.19	827.25	827.31	827.37	827.43	827.50	827.57	827.64	827.72	827.80	827.88	827.97	828.06	828.15	828.24	828.34	828.44



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

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

TOP OF SLAB ELEVATION AT FINAL GRADE

MINUS SLAB THICKNESS

PLUS..... CAMBER

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

EQUALS = TOP OF SLAB FLASEWORK ELEVATION

SURVEY TOP OF SLAB ELEVATIONS

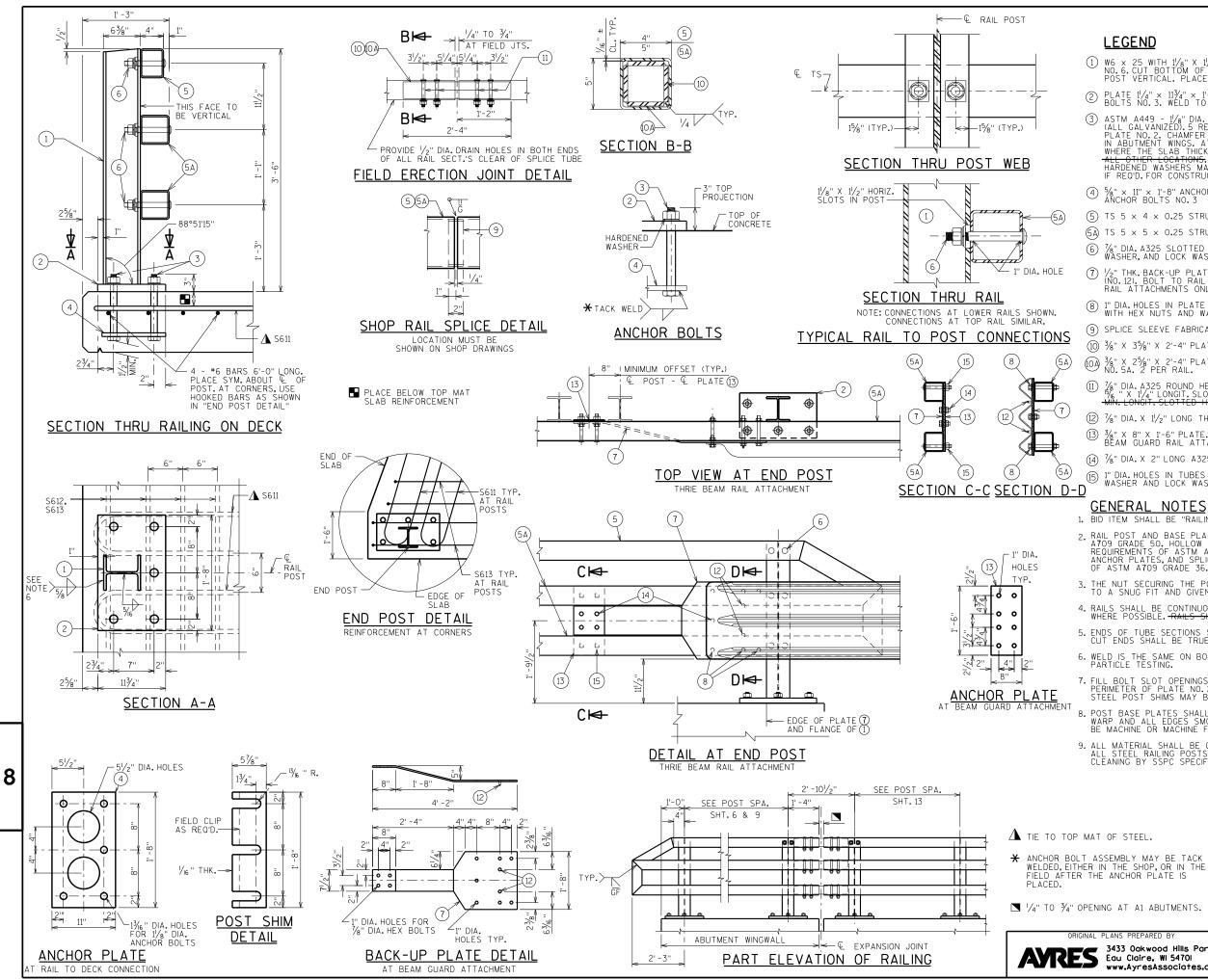
LOCATION	€ OF S. ABUT.	5710 PT. SPAN 1	€ OF PIER	5710 PT. SPAN 2	€ OF N. ABUT.
WEST EDGE OF SLAB					
€ OF STRUCTURE					
EAST EDGE OF SLAB					

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF DECK ELEVATIONS AT THE \mathcal{C} OF ABUTMENTS, THE \mathcal{C} OF PIER AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND CROWN OR \mathcal{C} . RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.



STATE PROJECT NUMBER

						8
	NO.	DATE	REVISION		BY	
			STATE OF WISCONS DEPARTMENT OF TRANSP			
		STRL	JCTURE B-33-1			
			DRAWN BY	CLP PLANS CK'D.	JCK	
PARED BY kwood Hills Parkway re, WI 54701	s		RSTRUCTURE DETAILS	SHEET 14	OF 15	



LEGEND

STATE PROJECT NUMBER 5720-00-74 W6 \times 25 with $1^{1}\!/_{8}"$ \times $1^{1}\!/_{2}"$ horiz. Slots on each side of post for bolt no.6. Cut bottom of post to match cross slope of roadway. Place post vertical. Place posts normal to grade line. ASTM A449 - $1^{1}\!/_{8}$ DIA, ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REQ'D.PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO.2. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1"-9" LONG IN ABUTMENT WINGS. AT POSTS ON CONCRETE SLAB SUPERSTRUCTURES WHERE THE SLAB THICKNESS IS > 16" USE 1'-3" LONG. USE 107/2" LONG AT ALL OTHER LOCATIONS. (AN EQUIVALENT THREADED ROD WITH NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS IF REQ'D.FOR CONSTRUCTABILITY.) (4) $\frac{5}{8}$ * 11" × 1'-8" anchor plate (Galvanized) with 1 $\frac{3}{16}$ " dia. Holes for anchor bolts no. 3 (5) TS 5 \times 4 \times 0.25 STRUCTURAL TUBING. ATTACH TO NO.1WITH NO.6. (5A) TS 5 \times 5 \times 0.25 STRUCTURAL TUBING. ATTACH TO NO.1 WITH NO.6. 7_6 " dia.a325 slotted round head bolt with nut, 3_6 " x 15_8 " x 15_8 " min. Washer, and lock washer (2 reo'd.at each rail to post location.) $^{\prime}\!/_2"$ Thk. Back-up plate with 2 - $^{\prime}\!/_8"$ x $1^{\prime}\!/_2"$ threaded shop welded studs (no. 12). Bolt to rail as shown in Detail. Required at three beam guard rail attachments only. Place symmetrically about tubes no.54. (8) 1" DIA. HOLES IN PLATE NO. 7 & TUBES NO. 5A FOR $7_{\rm B}$ " DIA. A325 BOLTS WITH HEX NUTS AND WASHERS. 6 HOLES IN TUBES AND PLATE NO. 7. (9) SPLICE SLEEVE FABRICATED FROM $^{1}\!/_{4}"$ plate. Provide "Sliding fit". (10) 3/8" X 35/8" X 2'-4" PLATE. 2 PER RAIL. USED IN NO.5 & 5A. (1) 3/1" X 2%" X 2'-4" PLATE USED IN NO.5, 3/1" X 35/1" X 2'-4" PLATE USED IN NO.5A. 2 PER RAIL. (1) 7/8" DIA. A325 ROUND HEAD BOLT WITH NUT, WASHER, AND LOCK WASHER. USE 15/6" "X 1/4" LONGIT. SLOTTED HOLES AT FIELD JOINTS AND 1%" X 21/4" MIN. LONGIT. SLOTTED HOLES AT EXP. JOINTS IN PLATE NO. 10A. EXP. JOINTS IN PLATE NO. 104. (12) $\frac{7}{8}$ " DIA. X $\frac{1}{2}$ " LONG THREADED SHOP WELDED STUDS (2 REQ'D). $(\overline{3})$ $3_8^{\prime\prime}$ X 8" X 1'-6" plate. Bolt to rail as shown in detail. Regulat three beam guard rail attachments only. Place sym. About tubes no. 5a. (14) $7_{\!/\!8}"$ dia. X 2" long A325 Hex Bolt with nut and washer (5 Req'd.). (E) 1" DIA. HOLES IN TUBES NO. 5A FOR 7" DIA. A325 ROUND HEAD BOLT WITH NUT, WASHER AND LOCK WASHER (4 REQ'D.). 4 HOLES IN TUBES. GENERAL NOTES 1. BID ITEM SHALL BE "RAILING TUBULAR TYPE M" WHICH INCLUDES ALL ITEMS SHOWN. 2. RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED FY = 50 KSI. ANCHOR PLATES, AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 36. 3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL $^{\prime}_{\rm /8}$ TURN. 4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE. RAILS SHALL BE SPLICED IN A PANEL OVER EXPANSION JOINTS. 5. ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH. 6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING. 7. FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO.2 AND CAULK AROUND PERIMETER OF PLATE NO.2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REQ'D.FOR ALIGNMENT. 8. POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT. 9. ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO.6 BLAST CLEANING BY SSPC SPECIFICATIONS. 8 NO. DATE REVISION ΒY

PLANS PREPARED 3433 Oakwood Hills Parkway Eau Claire, WI 54701 www.AyresAssociates.com

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STRUCTURE B-33-140

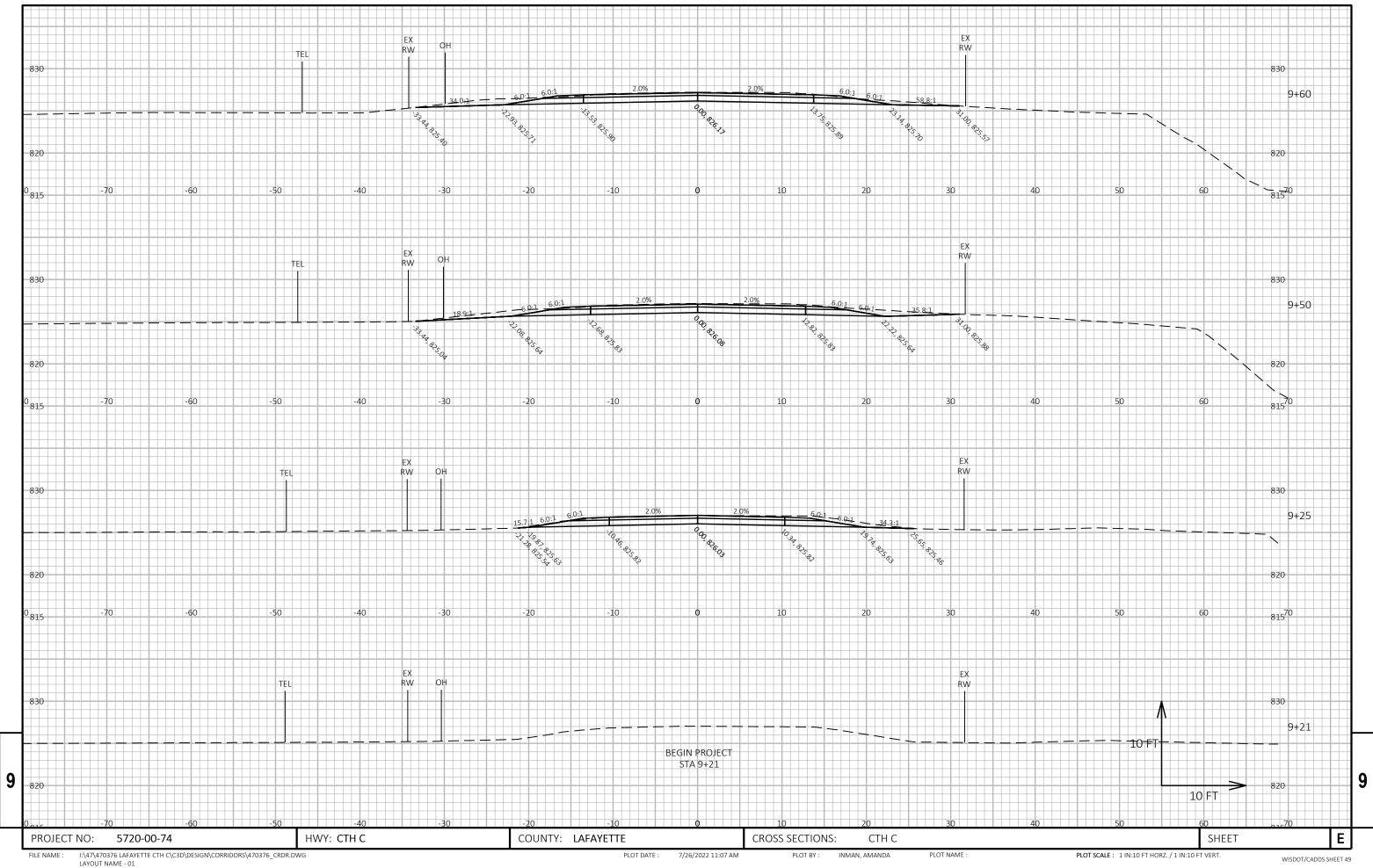
RAWN BY CLP CK'D. JCK SHEET 15 OF 15 TUBULAR STEEL RAILING TYPE 'M'

		Area (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				
	[Unusable							Expanded		
Station	Distance	Cut	Cut	Fill	Cut	Unusable Cut	Fill	Cut	Unusable Cut	Fill	Mass Ordinate	
								1.00		1.30		
					Note 1	Note 2	Note 3	Note 1	Note 2	Note 3	Note 4	
9+20		0.0	0.0	0.0								
9+25	5	18.6	20.0	0.0	2	2	0	2	2	0	2	
9+50	25	31.8	20.0	1.7	23	19	1	25	21	1	24	
9+60	10	30.0	20.0	1.7	11	7	1	36	28	3	33	
9+71	11	30.0	20.0	1.7	12	8	1	48	36	4	44	
NEW BRIDGE												
10+29		5.5	21.7	9.6								
10+40	11	5.5	21.7	9.6	2	9	4	50	45	9	41	
10+50	10	8.8	21.7	2.6	3	8	2	53	53	12	41	
10+75	25	12.0	21.7	4.2	10	20	3	63	73	16	47	
10+79	4	0.0	0.0	0.0	1	2	0	64	75	16	48	
					64	75	12					

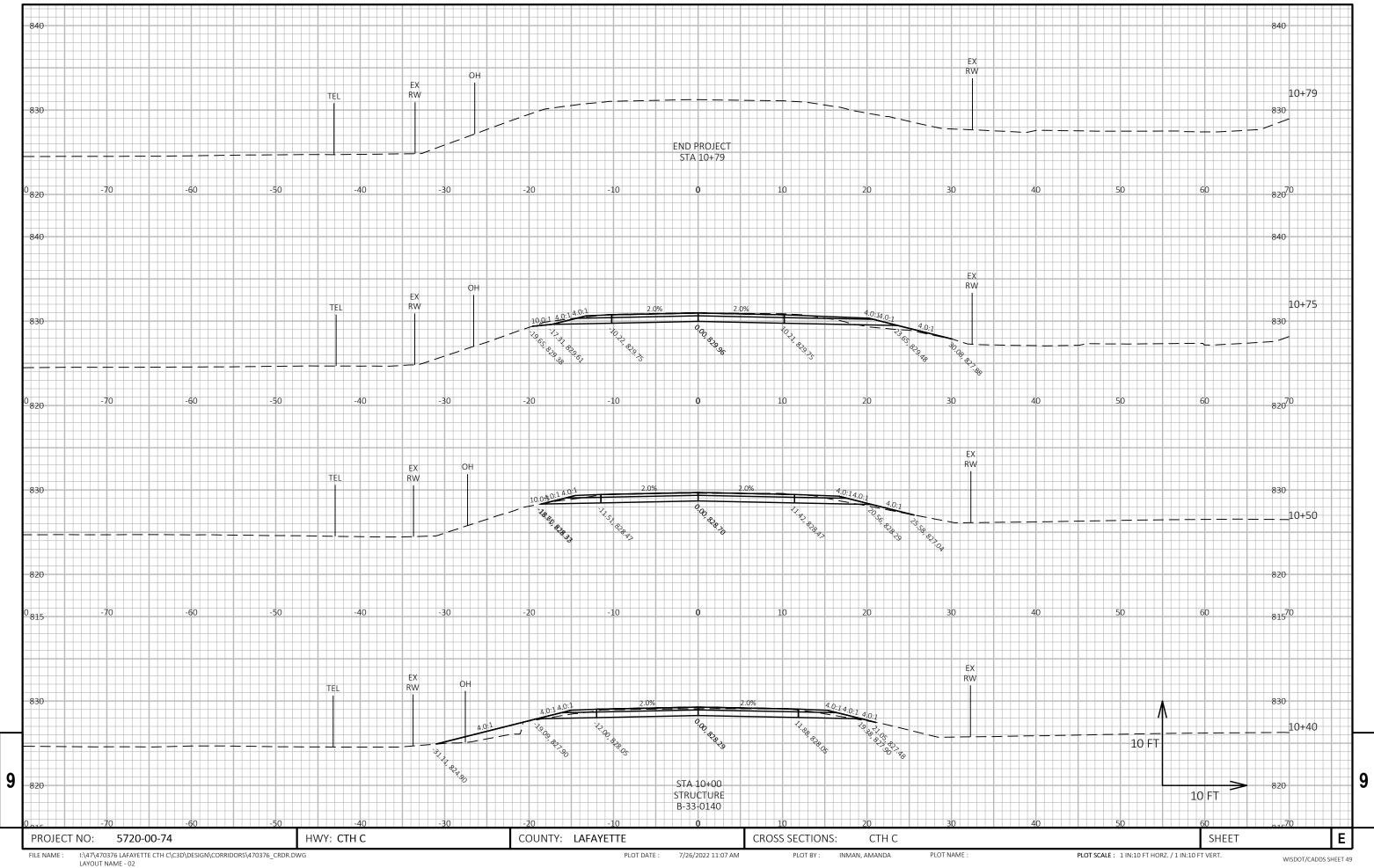
Note 1 - Cut	Usable cut only
Note 2 - Unusable Cut	Existing asphalt pavement. Not to be used outside the 1:1 road core.
Note 3 - Expanded Fill	Volume needed to be filled = Fill * 1.30
Note 4 - Mass Ordinate	(Cut) - (Expanded Fill)

PROJECT NO: 5720-00-74 HWY: CTH C	COUNTY: LAFAYETTE	COMPUTER EARTHWORK DATA
-----------------------------------	-------------------	-------------------------

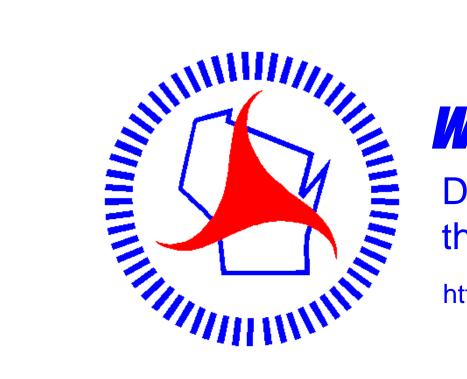
SHEET NO:	Ε	



WISDOT/CADDS SHEET 49



WISDOT/CADDS SHEET 49



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov

