SEPTEMBER 2022

Section No. Section No.

Section No.

Section No.

Section No.

Section No.

TOTAL SHEETS =

STATE OF WISCONSIN ORDER OF SHEETS Section No. **DEPARTMENT OF TRANSPORTATION** Section No. Typical Sections and Details

PLAN OF PROPOSED IMPROVEMENT

STH 39 - STH 191

DODGE BRANCH BRIDGE B-25-0195

CTH W **IOWA COUNTY**

STATE PROJECT NUMBER 5683-00-72

- -SUMN-Y - - ?

PROJECT LOCATION

Estimate of Quantities

Plan and Profile

Cross Sections

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

DESIGN DESIGNATION 5683-00-72

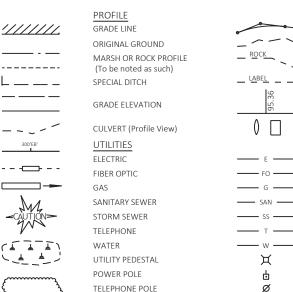
= 44 000

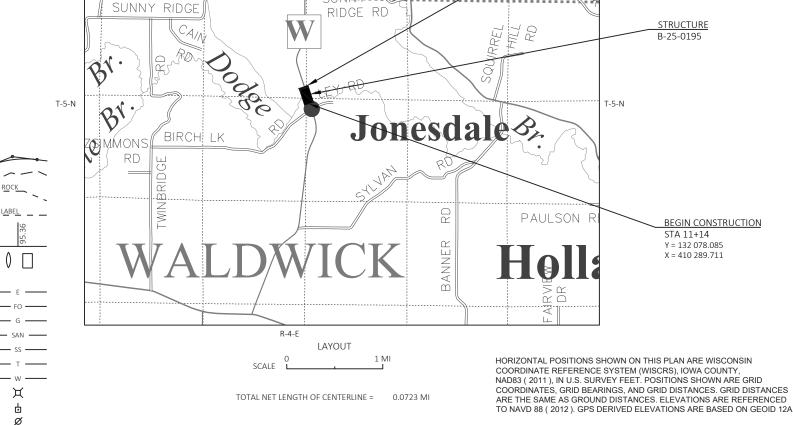
AADT 2023 = 220 A.A.D.T. 2043 = 240 = 34 D.H.V. D.D. = 62/38 = 7.7% DESIGN SPEED = 60

CONVENTIONAL SYMBOLS

CONVENTIONAL STIVIDOLS
PLAN CORPORATE LIMITS
PROPERTY LINE
LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE
SLOPE INTERCEPT
REFERENCE LINE
EXISTING CULVERT PROPOSED CULVERT (Box or Pipe)
COMBUSTIBLE FLUIDS
MARSH AREA

WOODED OR SHRUB AREA





FEDERAL PROJECT STATE PROJECT CONTRACT PROJECT 5683-00-72 WISC 2022510 1



ORIGINAL PLANS PREPARED BY



619 EAST HOXIE STREET P.O. BOX 429 SPRING GREEN, WISCONSIN 53588 PHONE (608) 588-7866 FAX (608) 588-7954



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY WESTBROOK ASSOCIATED ENGINEERS Surveyor Designer Project Manage

PROVED FOR THE DEPARTMENT 4/19/2022

Ε

END CONSTRUCTION STA 14+96

BEGIN CONSTRUCTION

STA 11+14

Y = 132 078.085

STRUCTURE

B-25-0195

LAWINGER

RD

RD

LEASE

GENERAL NOTES

UNNAMED ARCHEOLOGICAL SITE 47IA253 EXISTS BEYOND THE EXISTING RIGHT-OF-WAY AT THE PROJECT AREA. THE SITE SHALL NOT BE USED FOR BORROW OR WASTE DISPOSAL, OR FOR THE STAGING OF PERSONNEL, EQUIPMENT OR SUPPLIES. A QUALIFIED ARCHAEOLOGIST SHALL BE ON SITE TO MONITOR ANY DISTURBANCES BEYOND THE EXISTING RIGHT-OF-WAY

WETLANDS EXIST IN THE PROJECT AREA. NO DISTURBANCES SHALL OCCUR OUTSIDE OF THE SLOPE INTERCEPTS IN WETLAND AREAS.

EROSION CONTROL ITEMS TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER. SILT FENCE AND TURBIDITY BARRIER SHALL BE IN PLACE PRIOR TO CONSTRUCTION

EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, TEMPORARY SEEDED, AND MULCHED AS DIRECTED BY THE ENGINEER.

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

SLOPES STEEPER THAN 2.5:1 REQUIRE FROSION MAT.

REMOVAL OF ASPHALTIC SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A SAWCUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

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

D.O.T. MONUMENT IS TO BE FURNISHED BY THE STATE AND PLACED BY THE CONTRACTOR IN THE SAME WING THAT THE PROPOSED NAME PLATE WILL BE PLACED. AS DIRECTED BY THE ENGINEER.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), IOWA COUNTY, HORIZONTAL DATUM NAD83 (2011), ELEVATION DATUM NAVD88 (2012).

THE 4-INCH ASPHALTIC SURFACE SHALL BE CONSTRUCTED USING A 2 1/4-INCH LOWER LAYER OF 19 MM NOMINAL SIZE AGGREGATE AND A 1 3/4-INCH UPPER LAYER OF 12.5 MM NOMINAL SIZE AGGREGATE.

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

MAINTAIN ACCESS TO FIELD ENTRANCES FOR THE DURATION OF THE PROJECT.

ORDER OF DETAIL SHEETS

GENERAL NOTES TYPICAL SECTIONS NON-PARTICIPATING DETAIL SIGNING AND PAVEMENT MARKING ALIGNMENT DETAILS AND CONTROL POINTS

RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP											
			А			В			С	D			
			RANGE CENT)			RANGE CENT)			RANGE CENT)	SLOPE RANGE (PERCENT)			
LAND USE	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56	
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40	
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38	
PAVEMENT:													
ASPHALT						.7095							
CONCRETE						.8095							
BRICK						.7080							
DRIVES,WALKS						.7585							
ROOFS						.7595							
GRAVEL ROADS, SH	OULDE	RS				.4060)						

TOTAL PROJECT AREA = 1.15 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.63 ACRES

CONTACTS

CONSULTANT LIAISON

WESTBROOK ASSOCIATED ENGINEERS, INC. 619 EAST HOXIE STREET SPRING GREEN, WI 53588

ATTN: AARON PALMER, P.E. PH: (608) 588-7866 FAX: (608) 588-7954 apalmer@westbrookeng.com

WDNR LIAISON

DNR SOUTH CENTRAL REGION HEADQUARTERS 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711

ATTN: ANDY BARTA PH: (608) 235-2955 andrew.barta@wisconsin.gov

STANDARD ABBREVIATIONS

COUNTY LIAISON

IOWA COUNTY HIGHWAY DEPARTMENT 1215 BEQUETTE STREET DODGEVILLE, WI 53533

ATTN: CRAIG HARDY ATTO: (608) 574-2935 Craig.Hardy@iowacounty.org

UTILITIES

ELECTRIC

ALLIANT ENERGY CHAD NOVAK 490 SHAKFRAG STRFFT MINERAL POINT, WI, 53565 PHONE: (608) 574-1037

EMAIL: Chad.Novak@alliantenergy.com

COMMUNICATION

FRONTIER COMMUNICATIONS BRIAN BEST 208 S MAIN STREET BAILEYVILLE, IL 61007 PHONE: (815) 541-7576 EMAIL: bbest@mscon.com

COMMUNICATIONS

BUG TUSSEL WIRELESS SCOTT CERVENY 417 PINE STREET GREEN BAY, WI 54301 PHONE: (920) 366-1735 EMAIL: Scott.Cerveny@bugtusselwireless.com



AADT

C OR CL C.T.H. CWT. C.Y. DHVCOR. EL. OR ELEV. FT. GAL. H.W.

B.M.

ANNUAL AVERAGE DAILY TRAFFIC AGGREGATE BENCH MARK CENTERLINE CRUSHED COUNTY TRUNK HIGHWAY HUNDREDWEIGHT CUBIC YARD DOUBLE HEADED DESIGN HOURLY VOLUME DIRECTED EAST CORNER ELEVATION FIELD ENTRANCE FOOT (FEET) GALLON HIGH WATER INCHES

SIGHT DISTANCE

LENGTH OF CURVE

L.F. L.H.F. L.S. MAX. MIN. N. PAV'T P.C. P.I. P.E. P.K. P OR PL P.P. PROJ. P.T.

R.R.

REINE

LUMP SUM LEFT MAXIMUM MINIMUM NORTH NORMAL PAVEMENT POINT OF CURVE
POINT OF INTERSECTION PRIVATE ENTRANCE PARKER-KALON NAIL PROPERTY LINE POWER POLE **PROJECT** POINT OF TANGENCY PVMT PAVEMENT

LINEAR FEET

LEFT HAND FORWARD

REQ'D R/W RD. RDWY SE. SHRK. S.R. STD. STH STA. UNCL.

RIGHT RIGHT-OF-WAY **ROAD** ROADWAY SOUTH SOUTHEAST SHRINKAGE SIDE ROAD STANDARD STATE TRUNK HIGHWAY STATION

REQUIRED

SQUARE YARD TANGENT LENGTH OF CURVE TRANSIT LINE UNCLASSIFIED EXCAVATION DESIGN SPEED V.C. VERTICAL CURVE VAR. VARIABLE W.

WEST

SHEET

PROJECT NO: 5683-00-72 HWY: CTH W G:\00-PROJECT FILES\2021\21069 CTH W. DODGE BR BRIDGE. IOWA COUNTY 5683-00-02\0-CAD\SHEETSPLAN\020101 GN.DWG FILE NAME

LAYOUT NAME - 020101_gn

PLOT DATE:

4/14/2022 9:46 AM

GENERAL NOTES

ERIK MEYER

PLOT NAME

PLOT SCALE:

RADIUS

RAILROAD

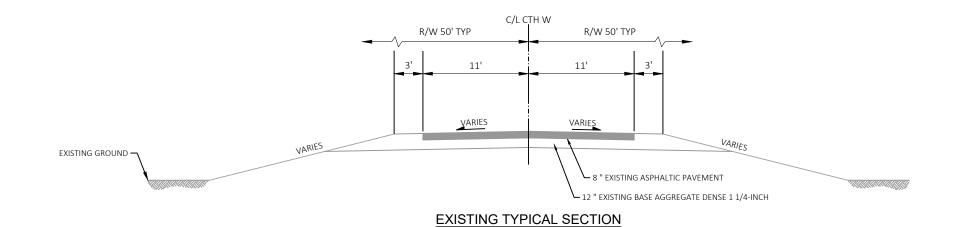
REINFORCED

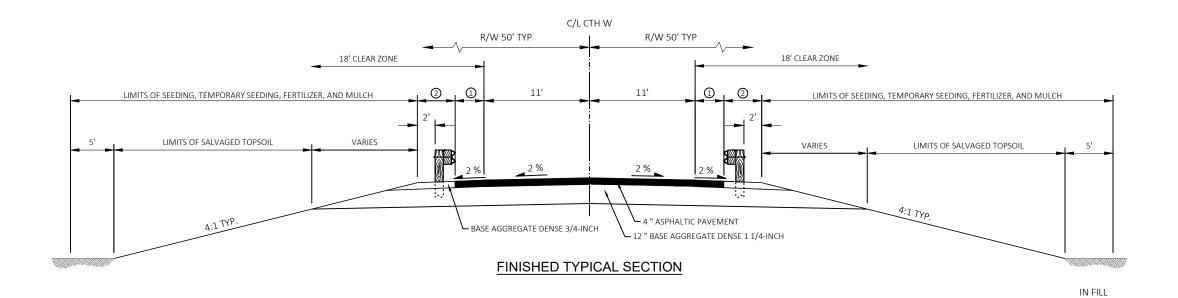
1 IN:100 FT

Ε

COUNTY: IOWA



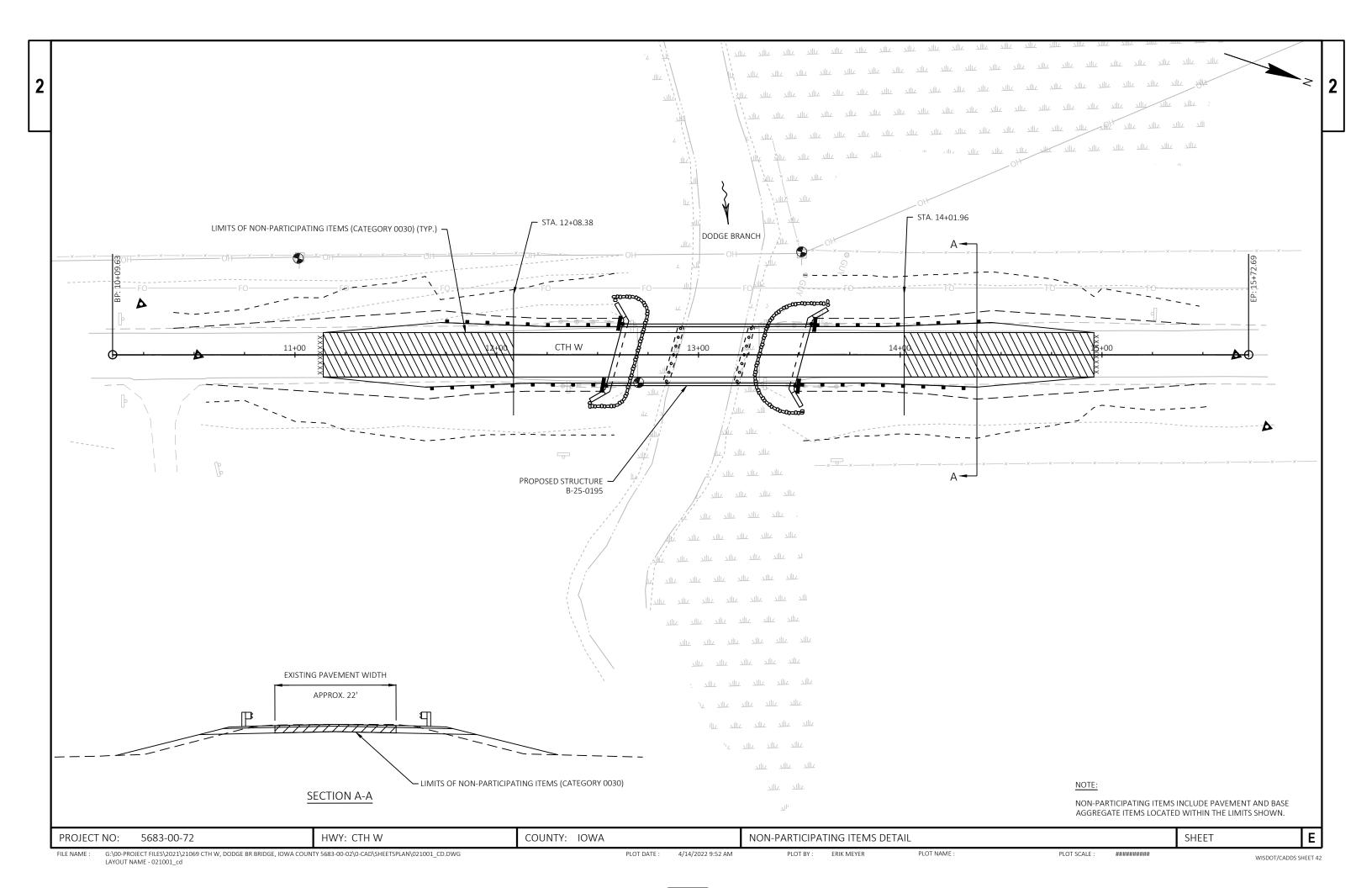


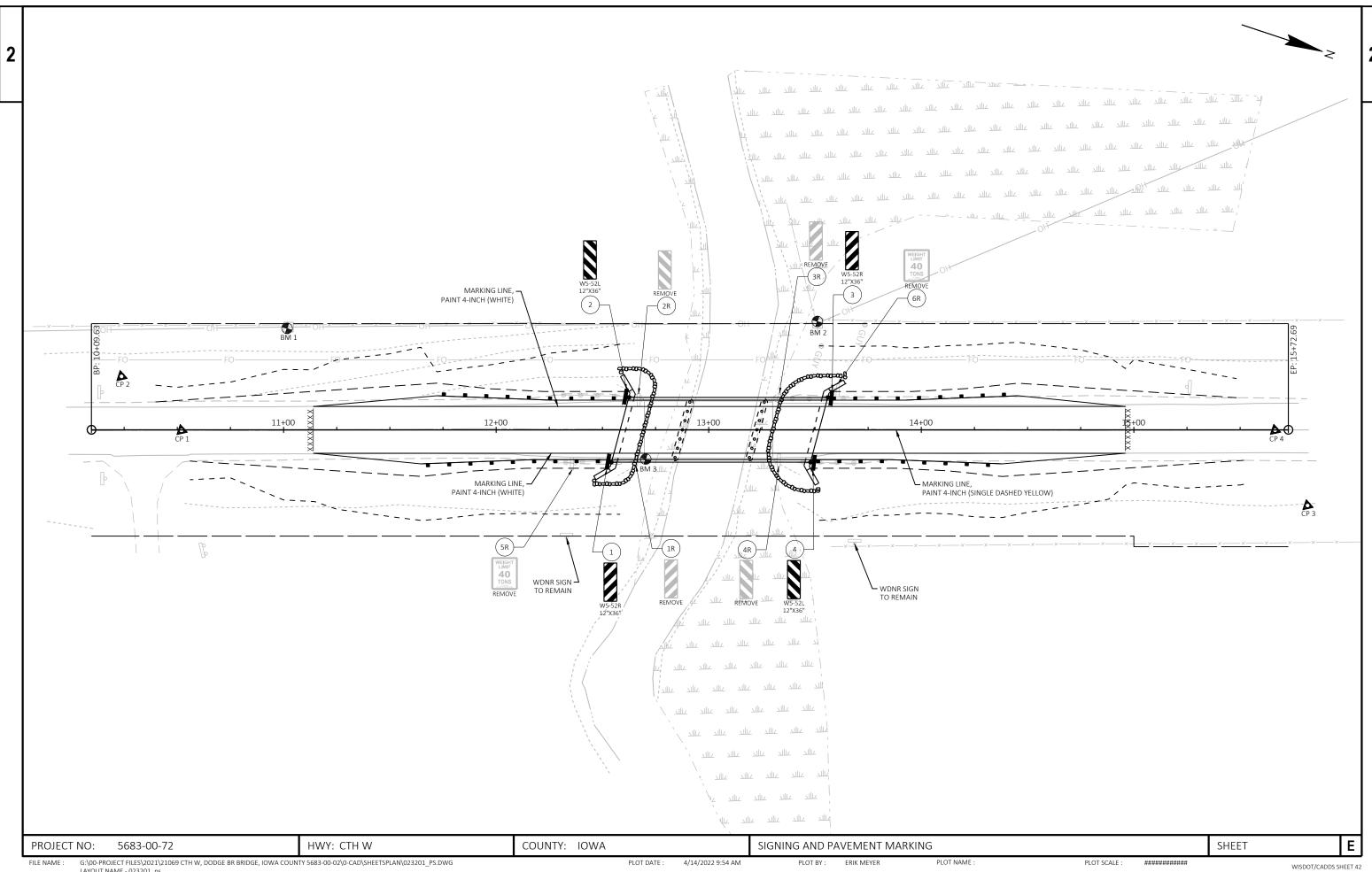


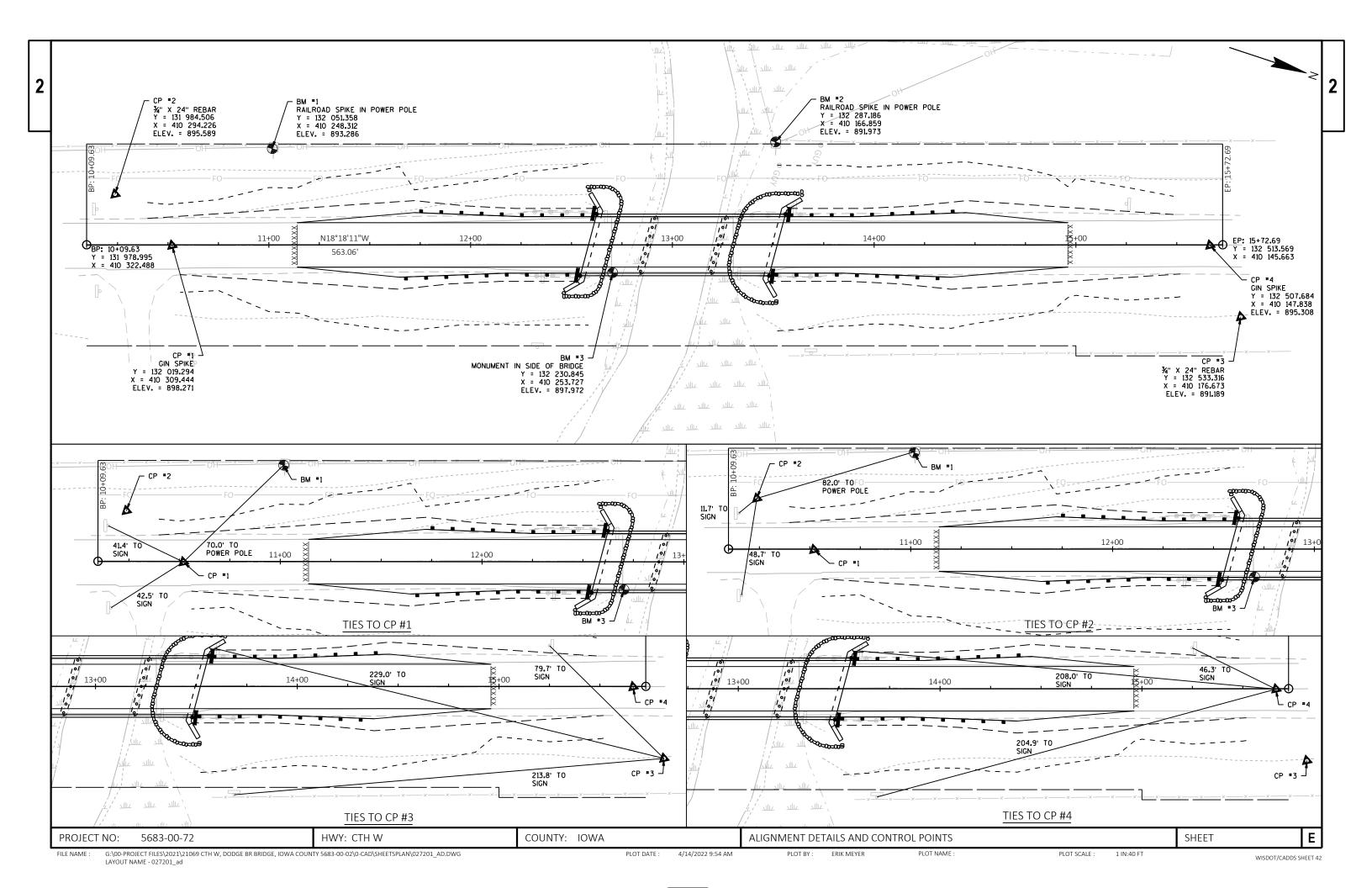
① TAPER PAVEMENT TO FACE OF GUARDRAIL. WIDTH VARIES AT GUARDRAIL FLARES AS WELL AS TO MATCH TO EXISTING AT BEGIN AND END OF PROJECT.

② VARIES FROM POST 9 TO POST 1. SEE CROSS SECTIONS AND SDD 14B44-04a.

Ε PROJECT NO: 5683-00-72 HWY: CTH W COUNTY: IOWA TYPICAL SECTIONS SHEET G:\00-PROJECT FILES\2021\21069 CTH W, DODGE BR BRIDGE, IOWA COUNTY 5683-00-02\0-CAD\SHEETSPLAN\020301_TS.DWG LAYOUT NAME - 020301_ts PLOT BY: ERIK MEYER PLOT NAME : PLOT SCALE : FILE NAME : PLOT DATE : 1 IN:10 FT 4/14/2022 9:46 AM WISDOT/CADDS SHEET 42







5683-00-72

Line	Item	Item Description	Unit	Total	Qty
0002	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. B-25-0011	EACH	1.000	1.000
0004	204.0165	Removing Guardrail	LF	156.600	156.600
0006	205.0100	Excavation Common	CY	576.000	576.000
0008	206.1000	Excavation for Structures Bridges (structure) 01. B-25-0195	LS	1.000	1.000
0010	210.1500	Backfill Structure Type A	TON	460.000	460.000
0012	213.0100	Finishing Roadway (project) 01. 5683-00-72	EACH	1.000	1.000
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	104.000	104.000
0016	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,082.000	1,082.000
0018	455.0605	Tack Coat	GAL	64.000	64.000
0020	465.0105	Asphaltic Surface	TON	204.000	204.000
0022	502.0100	Concrete Masonry Bridges	CY	304.000	304.000
0024	502.3200	Protective Surface Treatment	SY	401.000	401.000
0024	505.0400	Bar Steel Reinforcement HS Structures	LB	8,240.000	8,240.000
0028	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	34,570.000	34,570.000
0020	513.4061	Railing Tubular Type M	LF	192.000	192.000
0030	516.0500	Rubberized Membrane Waterproofing	SY	14.000	14.000
0032	550.0020	Pre-Boring Rock or Consolidated Materials	LF	120.000	120.000
		Piling Steel HP 10-Inch X 42 Lb	LF		
0036 0038	550.1100 606.0300	•	CY	520.000 146.000	520.000 146.000
	612.0406	Riprap Heavy	LF		
0040		Pipe Underdrain Wrapped 6-Inch		160.000	160.000
0042	614.2500	MGS Characterial Torrainal FAT	LF	157.600	157.600
0044	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
0046	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5683-00-72	EACH	1.000	1.000
0048	619.1000	Mobilization Water	EACH	1.000	1.000
0050	624.0100	Water	MGAL	11.400	11.400
0052	625.0500	Salvaged Topsoil	SY	1,190.000	1,190.000
0054	627.0200	Mulching	SY	2,600.000	2,600.000
0056	628.1504	Silt Fence	LF	1,150.000	1,150.000
0058	628.1520	Silt Fence Maintenance	LF	1,836.000	1,836.000
0060	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0062	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0064	628.6005	Turbidity Barriers	SY	211.000	211.000
0066	629.0210	Fertilizer Type B	CWT	1.650	1.650
0068	630.0175	Seeding Mixture No. 75	LB	18.000	18.000
0070	630.0200	Seeding Temporary	LB	75.000	75.000
0072	630.0400	Seeding Nurse Crop	LB	20.000	20.000
0074	630.0500	Seed Water	MGAL	44.000	44.000
0076	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0078	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0800	638.2602	Removing Signs Type II	EACH	6.000	6.000
0082	638.3000	Removing Small Sign Supports	EACH	6.000	6.000
0084	642.5001	Field Office Type B	EACH	1.000	1.000
0086	643.0420	Traffic Control Barricades Type III	DAY	2,112.000	2,112.000
8800	643.0705	Traffic Control Warning Lights Type A	DAY	4,224.000	4,224.000
0090	643.0900	Traffic Control Signs	DAY	1,728.000	1,728.000
0092	643.5000	Traffic Control	EACH	1.000	1.000
0094	645.0111	Geotextile Type DF Schedule A	SY	70.000	70.000
0096	645.0120	Geotextile Type HR	SY	278.000	278.000
0098	646.1005	Marking Line Paint 4-Inch	LF	864.000	864.000

Estimate Of Quantities Page

5683-00-72

Line	Item	Item Description	Unit	Total	Qty
0100	650.4500	Construction Staking Subgrade	LF	290.000	290.000
0102	650.5000	Construction Staking Base	LF	290.000	290.000
0104	650.6500	Construction Staking Structure Layout (structure) 01. B-25-0195	LS	1.000	1.000
0106	650.9910	Construction Staking Supplemental Control (project) 01. 5683-00-72	LS	1.000	1.000
0108	650.9920	Construction Staking Slope Stakes	LF	421.000	421.000
0110	690.0150	Sawing Asphalt	LF	44.000	44.000
0112	715.0502	Incentive Strength Concrete Structures	DOL	1,824.000	1,824.000
0114	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 12+91	EACH	1.000	1.000
0116	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,000.000	1,000.000
0118	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	900.000	900.000
0120	SPV.0180	Special 01. Salvaged Topsoil Over Riprap	SY	205.000	205.000
0122	SPV.0195	Special 01. Removal, Hauling, and Disposal of Creosote Contaminated Timbers	TON	212.000	212.000

NOTE:
ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED.

REMOVING GUARDRAIL

				204.0165 REMOVING GUARDRAIL
STATION	-	STATION	LOCATION	(LF)
12+26	-	12+65	MAINLINE, LT	39.0
12+27	17	12+66	MAINLINE, RT	39.0
13+34	-	13+73	MAINLINE, LT	39.0
13+35	-	13+74	MAINLINE, RT	39.0
			TOTALS	156.0

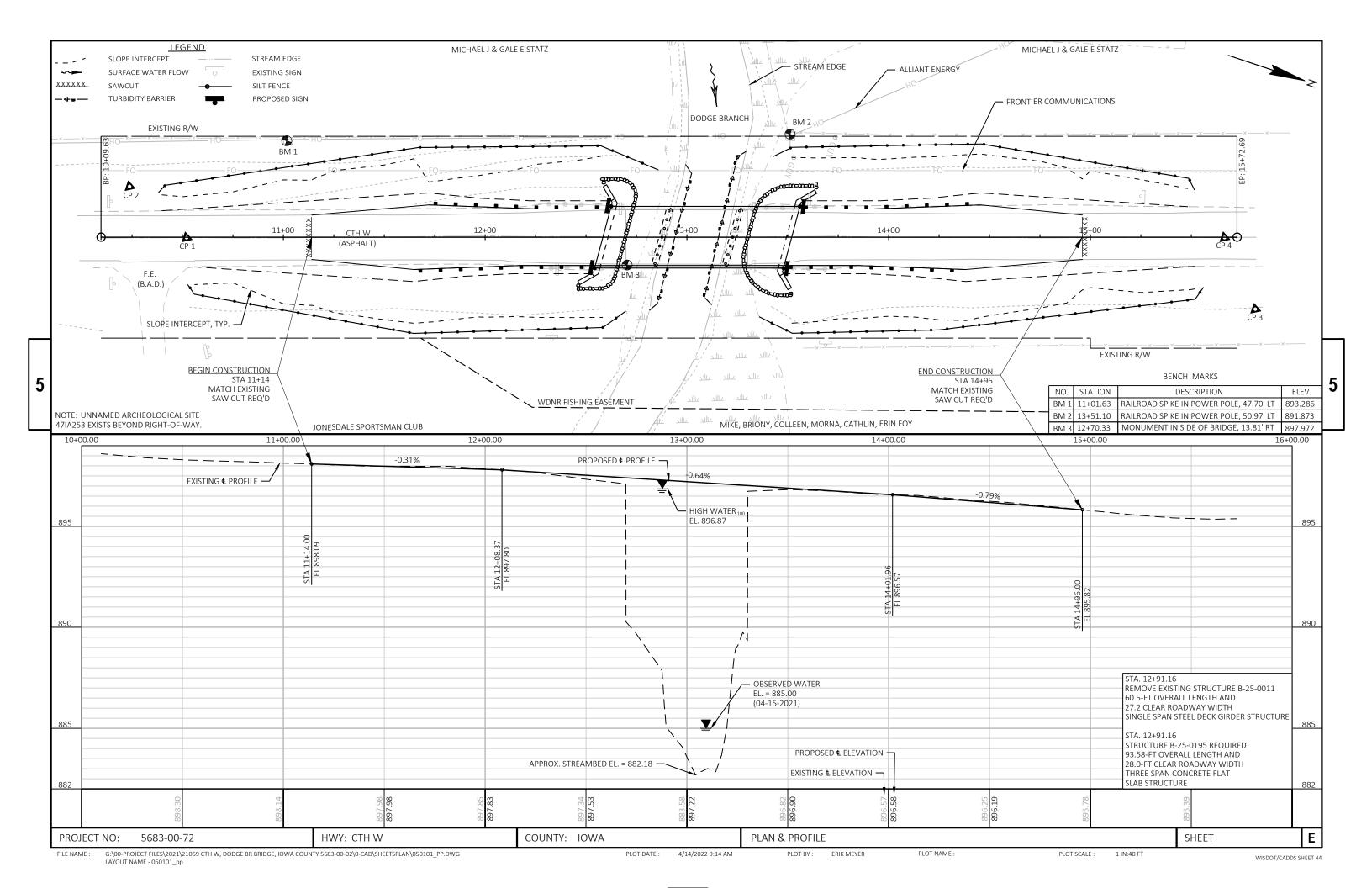
EARTHWORK SUMMARY

STATION -	STATION	LOCATION	COMMON EXCAVATION (1) (ITEM # 205.0100) CUT (2)		AVAILABLE MATERIAL (4)	UNEXPANDED FILL	FILL (5) FACTOR 1.25	MASS ORDINATE +/- (6)	COMMENT:
10+39	- 12+59	SOUTH APPROACH	285	85	200	127	159	41	CAT 0010
13+51	- 15+52	NORTH APPROACH	291	87	204	151	189	15	CAT 0010
		TOTALS	576	172	404	278	348	57	

- 1) COMMON EXCAVATION IS THE CUT. ITEM # 205.0100.
- 2) SALVAGED/UNUSABLE MATERIAL IS INCLUDED IN CUT.
- 3) SALVAGED/UNUSABLE MATERIAL INCLUDES ASPHATLIC PAVEMENT.
- 4) AVAILABLE MATERIAL = CUT SALVAGED/UNUSABLE MATERIAL
- 5) EXPANDED FILL FACTOR = 1.25: EXPANDED FILL = (UNEXPANDED FILL)*1.25
- 6) THE MASS ORDINATE + OR CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL IN THE DIVISION.

			BASE AGG	REGATE DE	NSE				<u>ASPHA</u>	LTIC ITEN	<u> 15</u>			MGS GUARDRA	<u>AIL</u>	614.2610
CATEGORY	STATION	- STATI			NCH 1 1/4-INCH SE BASE IN) (TON)	624.0100 WATER (MGAL)	CATEGORY	900000000		OCATION	455.0600 TACK COAT (GAL)	465.0105 ASPHALTIC SURFACE (TON)	STATION - STATION	LOCATION	614.2500 MGS THRIE BEAM TRANSIITION (LF)	MGS GUARDRAIL TERMINAL
0010 0030 0030 0010	10+39 11+14 13+51 14+02	- 12+5 - 12+6 - 14+6 - 15+5	08 MAINLIN 02 MAINLIN	E E E 5:	- 154 - 154 1 382	5.7 5.7 11.4	0030 0010 0010 0030	11+14 - 11+14 - 13+51 - 14+02 -	12+59 14+96 14+96	MAINLINE MAINLINE MAINLINE MAINLINE TOTALS	16 16 16 16	52 50 50 52 204	11+64.64 - 12+04.04 11+72.14 - 12+11.54 13+98.79 - 14+38.19 14+06.30 - 14+45.70	MAINLINE, LT MAINLINE, RT MAINLINE, LT MAINLINE, RT	39.40 39.40 39.40 39.40	1 1 1 1
			SILT FENCE													
				SILT	628.1520 SILT FENCE AINTENANCE			MOBI	IZATIONS		628.1910	ie.		TURBIDITY BA		
	1000 1 12 12 12 1	- STATION	The second secon	(LF)	(LF)				MOBILIZ	ATIONS	MOBILIZATION EMERGENCY ROSION CONTI			LOCATION	628.6005 (SY)	
	10+39 10+56	- 12+59 - 12+58	MAINLINE, LT MAINLINE, RT	253 224	506 448			LOCATION			(EACH)	NOL .		SOUTH APPROACH	103 108	
	13+51 13+51	15+48 15+52	MAINLINE, LT MAINLINE, RT	215 226	430 452			ID 5683-00-	72 3		2	_		TOTALS	211	
			TOTALS	1150	1836			TOTALS	,5		2					

	275																				
Ā	<u>DTE:</u> LL ITEMS CATEGORY 0010 NLESS OTHERWISE NOTED															SIG	<u>SNING</u>				
				625.0500	<u>FINISHIN</u>		630.0175	630.0200	630.0400	630.0500		STATION	LOCATION	SIGN NUMBER	SIGN CODE	634,0612 POSTS WOOD 4X6-INCH X 12-FT (EACH)	637.2230 SIGNS TYPE II REFLECTIVE TYPE F (SF)	638.2602 REMOVING SIGN TYPE II (EACH)	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH)	NOTES	
				SALVAGED TOPSOIL					SEEDING Y NURSE CROP	SEED WATER		12+37	RT	5R				1	1	LOAD POSTING	3
	STATION	- STATION	LOCATION	(SY)	(SY)	(CWT)	(LB)	(LB)	(LB)	(MGAL)		12+54	RT	1	W5-52R	1	3	_		BRIDGE HASH MARKS	١٠
	10+39	- 12+58 N	MAINLINE, LT	170	440	0.27	3	12	3	7.3	-	12+62	LT	2	W5-52L	1	3	_		BRIDGE HASH MARKS	
4			MAINLINE, RT	270	500	0.32	3	14	4	8.5		12+67	RT	1R				1	1	BRIDGE HASH MARKS	<u> </u>
	13+51		MAINLINE, LT	260	480	0.30	3	13	3	8.1		12+68	LT LT	2R				1	1	BRIDGE HASH MARKS	
	13+51		MAINLINE, RT	250	490	0.31	3	13	4	8.3		13+31 13+31	RT	3R 4R				1	1	BRIDGE HASH MARKS	
			OUTH RIPRAP		60	0.04	1	2	1	1.0		13+48	RT	3	W5-52R	1	2			BRIDGE HASH MARKS BRIDGE HASH MARKS	
		NO	ORTH RIPRAP	_	110	0.07	1	3	1	1.9		13+56	LT	4	W5-52K W5-52L	1	2		63993	BRIDGE HASH MARKS	
			NDISTRIBUTED	240	520	0.34	4	18	4	8.9		13+59	LT	6R	W5-52L			1	1	LOAD POSTING	
		2 	TOTALS	1190	2600	1.65	18	75	20	44.0	-	15+59	LI	-	1117	186	T GERTEN			LOAD FOSTING	
															TOTAL	4	12	6	6		
			ROACH 96	S S AL ACCORDAN		AY) 54 54 84	18 1 ¹ 18 1 ¹ 8 7	A	TRAFFIC CONT SIGNS (NO.) (DA) 7 672 7 672 4 384 18 172	ROL	643.5000 TRAFFIC CONTROL (EACH) 1 1				11+14 11+14	- 14+96	LOCATION CENTERLINE EDGELINE, LT EDGELINE, RT TOTAL	646.1005 (LF) 100 382 382 864	SINGLE DAS	MARK HED YELLOW WHITE WHITE	
		10-	+39 -	12+59	6		650.5000 S BASE (LF) 145 145	650.6500	YOUT SUPPLE 95 CON' (L	MENTAL TROL S)	250.9920 SLOPE STAKES (LF) 220 201						TATION L 11+14 N 14+96 N	G ASPHALT OCATION MAINLINE MAINLINE TOTAL	690.0150 (LF) 22 22		
		* CA	ATEGORY 0020	,	TOTALS	290	290	1*	1	Ĺ	421								44		
	OJECT NO: 5683	* CA 3-00-72	ATEGORY 0020	,	TOTALS HWY: CTH		290	1*	COUNTY:		421	MISCELLANE							44	SHEET	

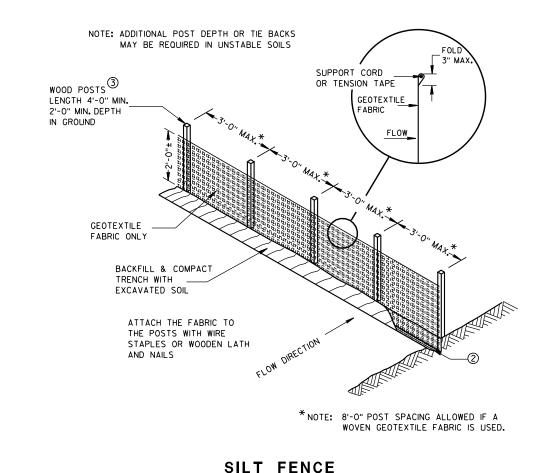


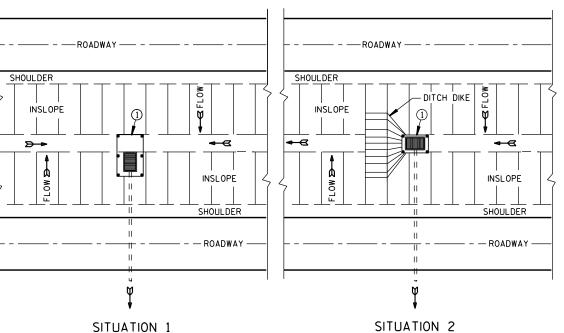
Standard Detail Drawing List

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

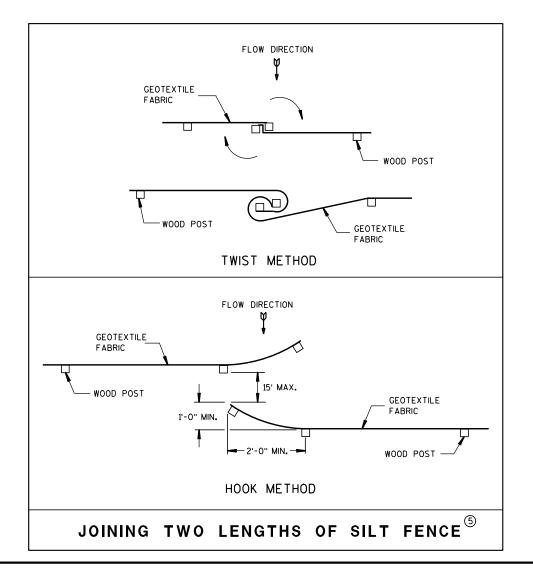
6

TYPICAL APPLICATION OF SILT FENCE





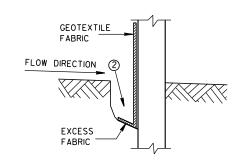
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



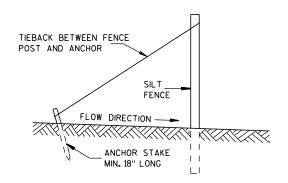
GENERAL NOTES

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

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- 2 FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



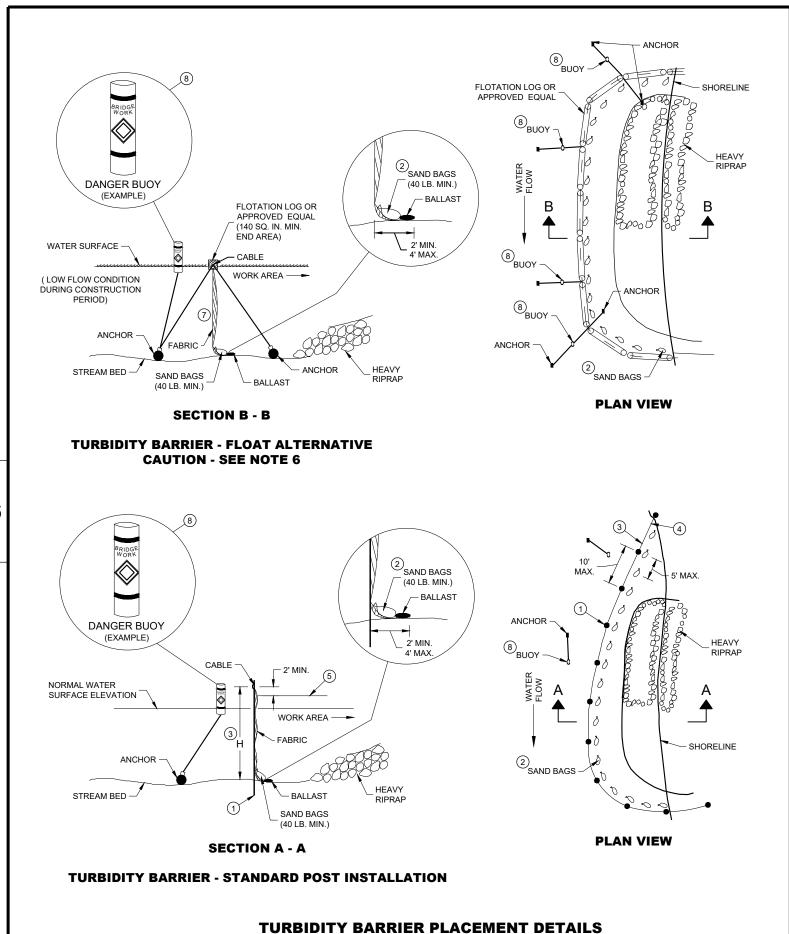
SILT FENCE TIE BACK (WHEN REQUIRED BY THE ENGINEER)

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

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6

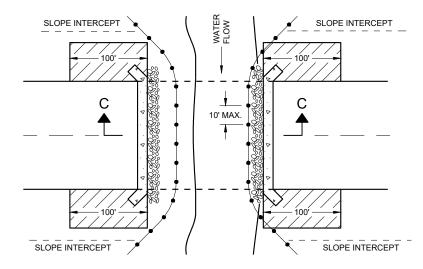


GENERAL NOTES

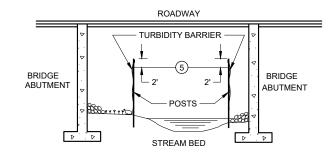
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

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



PLAN VIEW



SECTION C - C

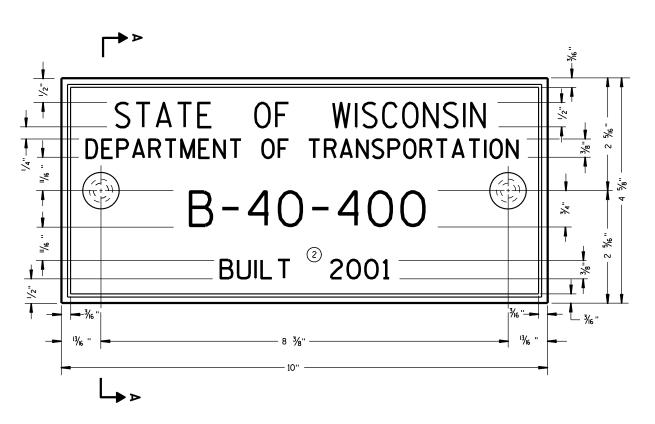
TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ∞

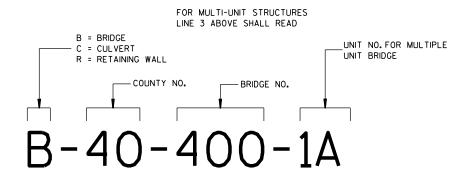
APPROVED	
6/4/02	/S/ Beth Cannestra
DATE	CHIEF ROADWAY DEVELOPMENT
F1 0.474	ENGINEER





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



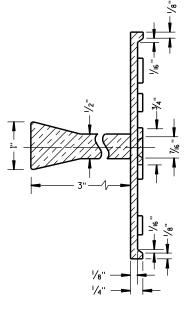
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

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

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

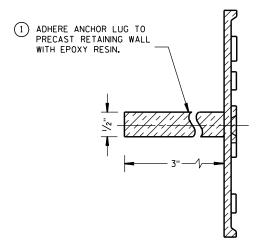
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

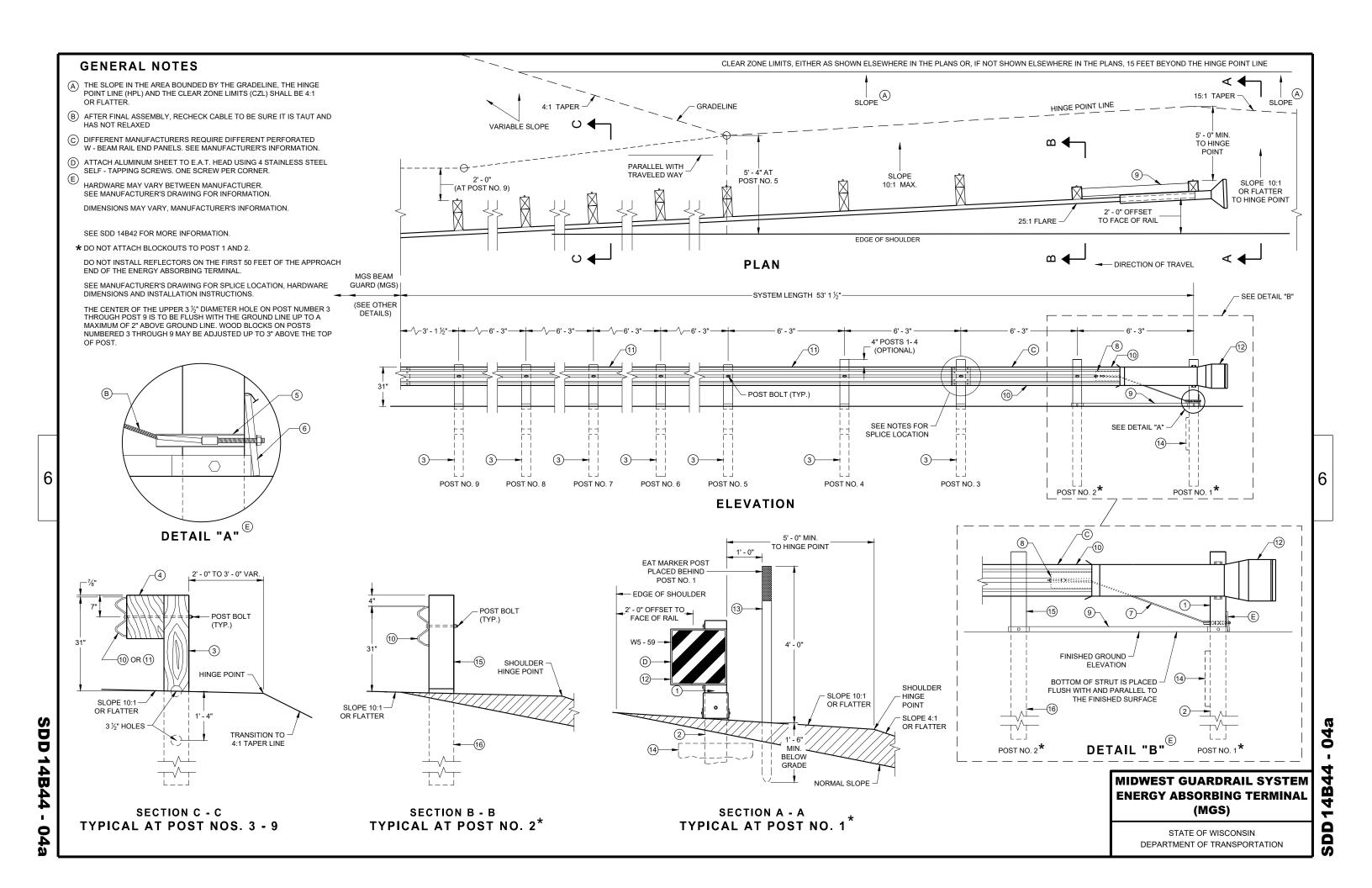
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

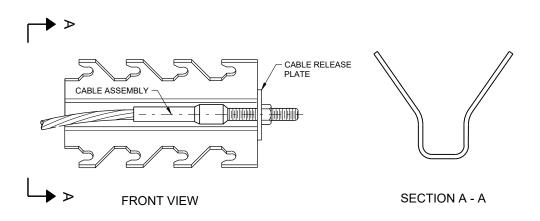
3-10

APPROVED

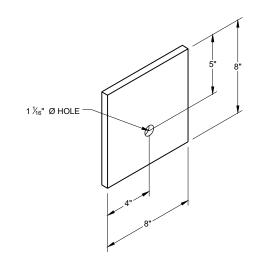
3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER





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



BEARING PLATE

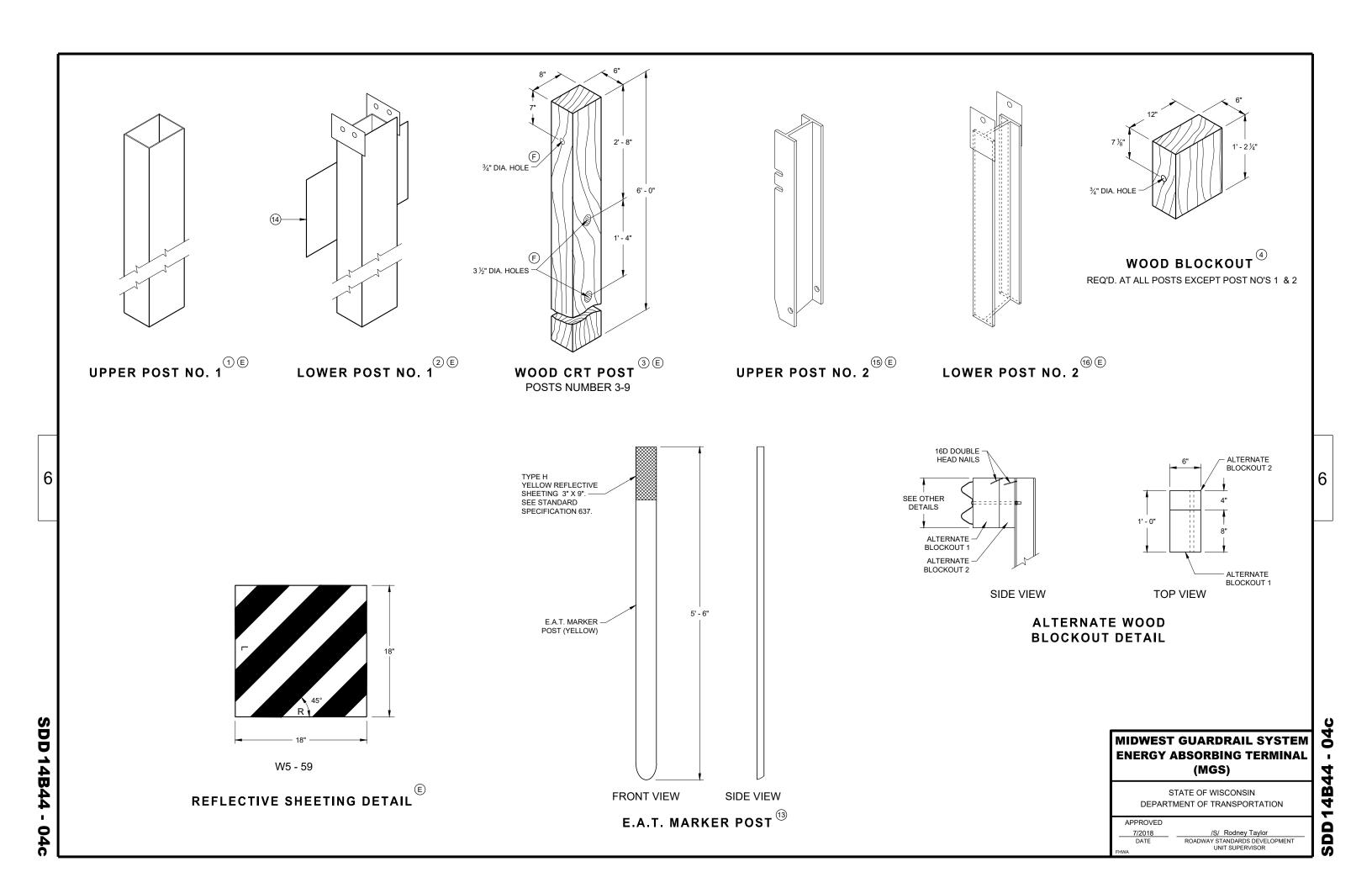
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

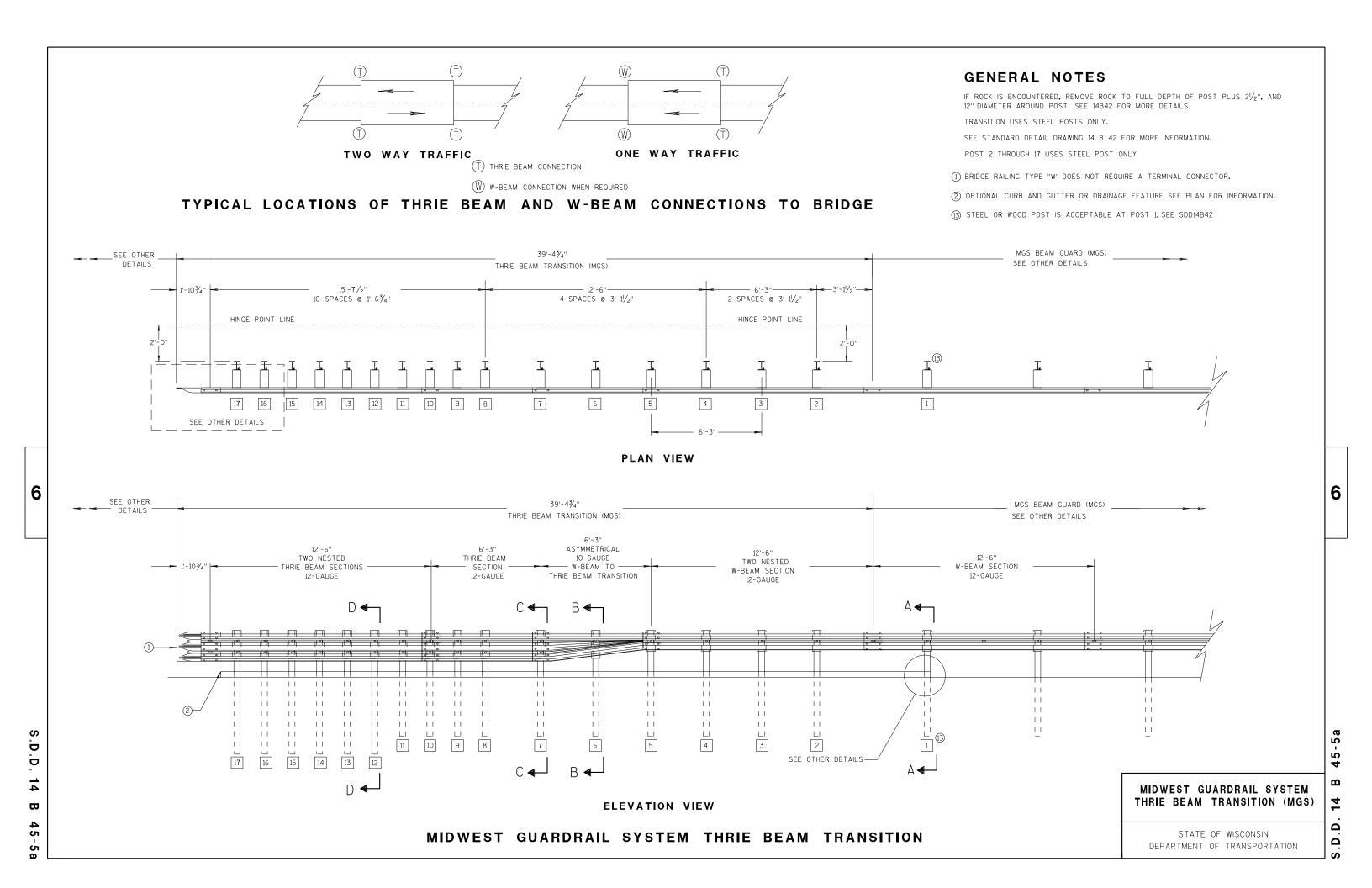
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

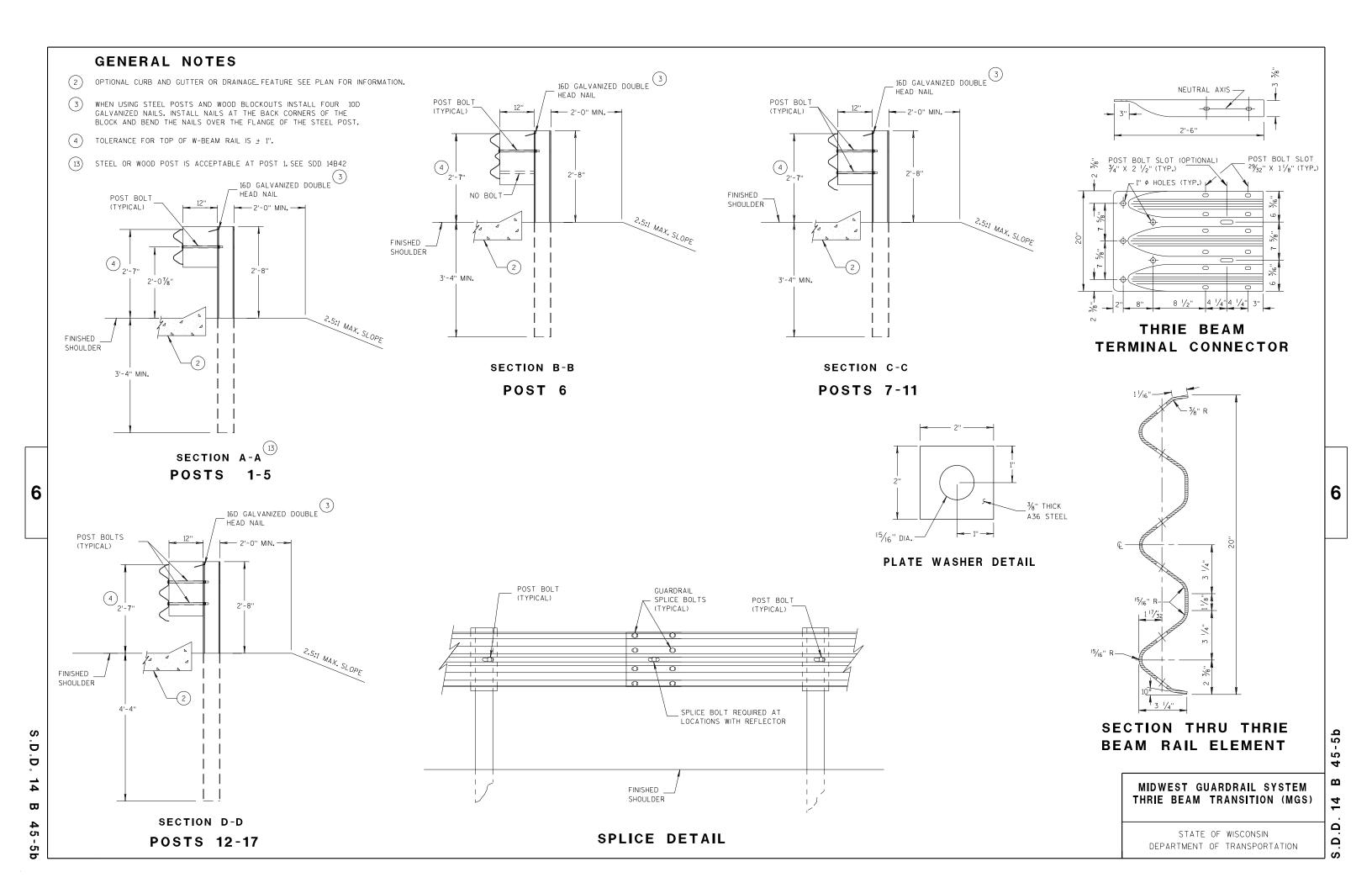
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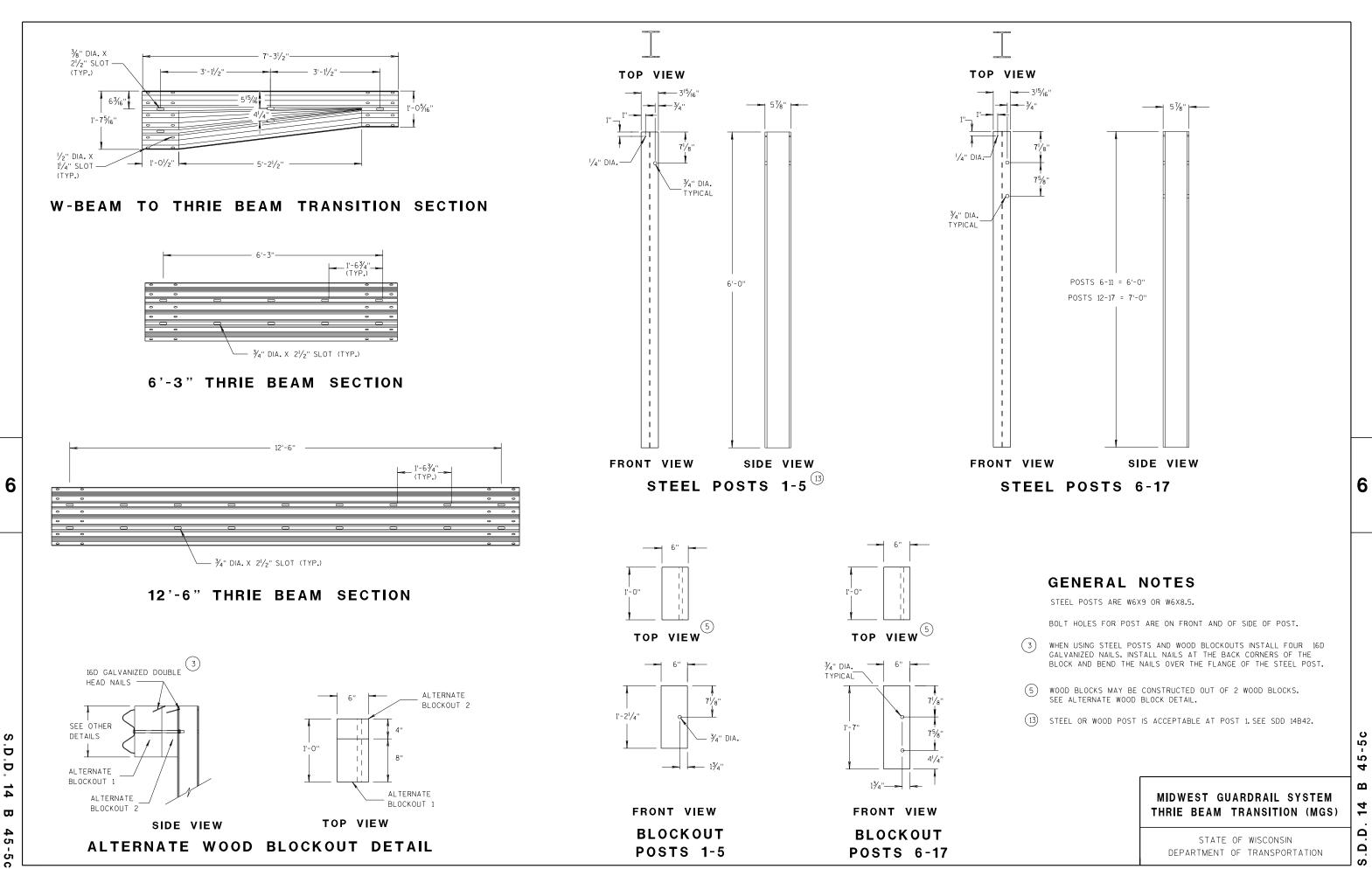
SDD 14B44

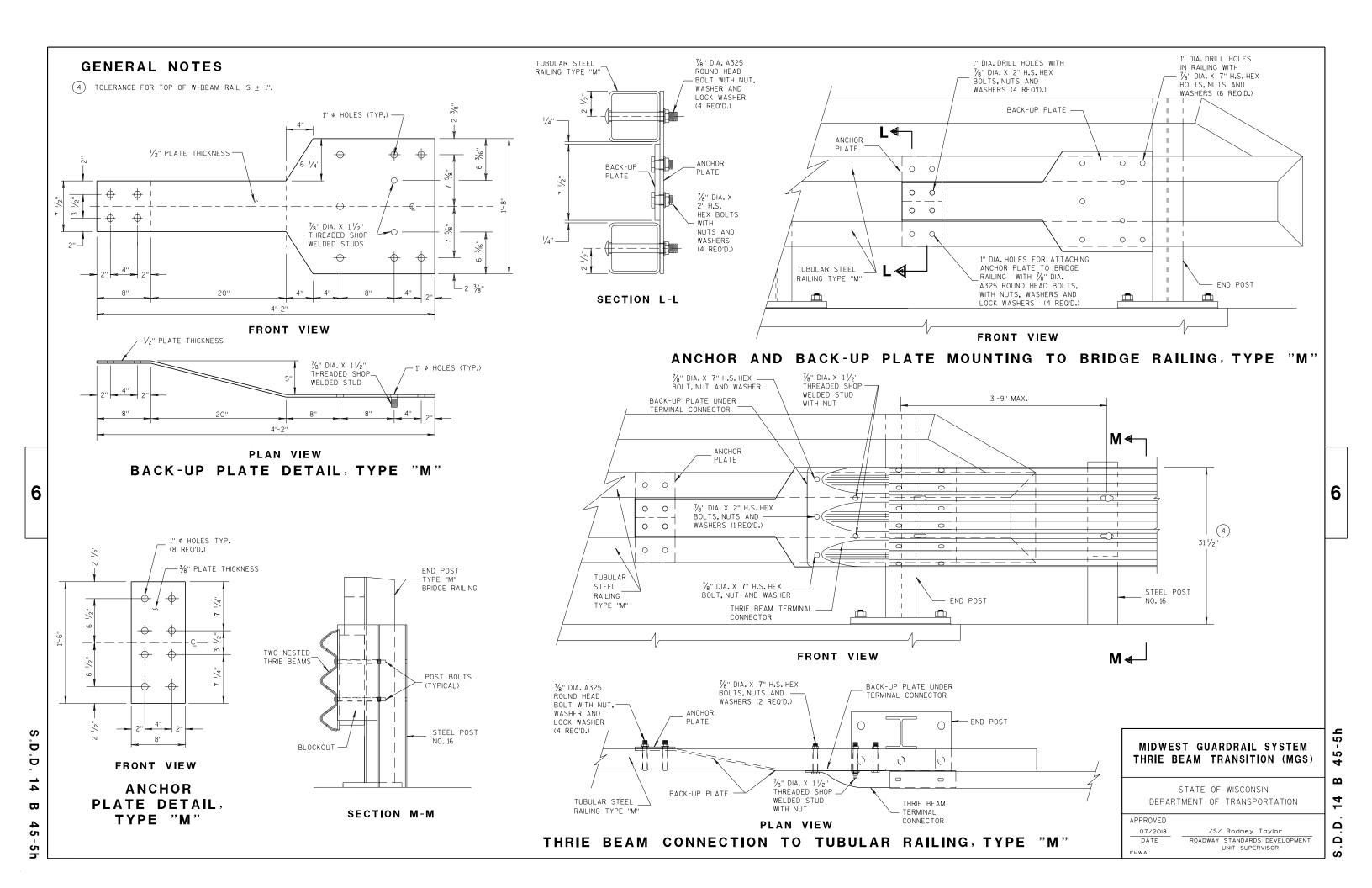
SDD 14B44

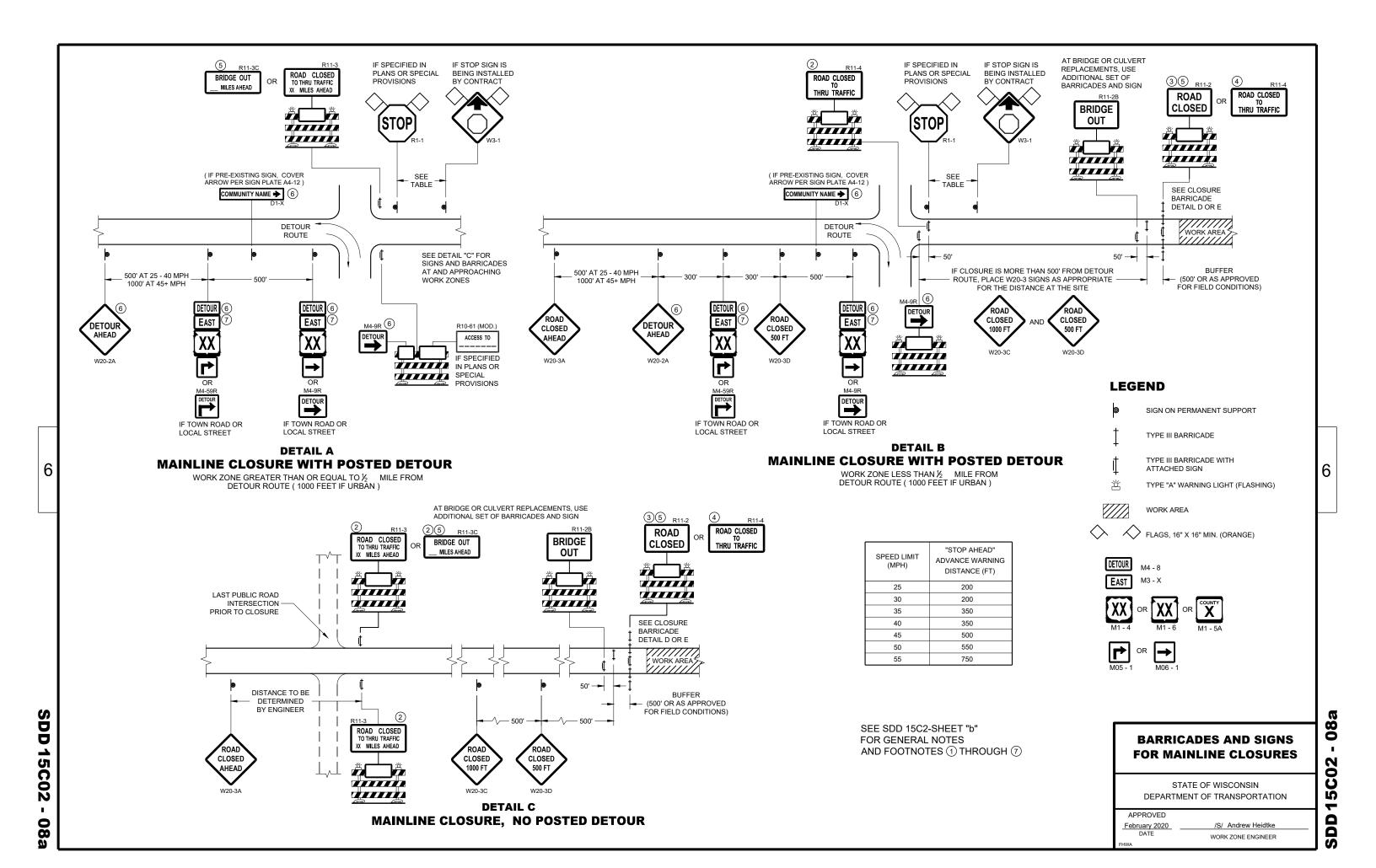


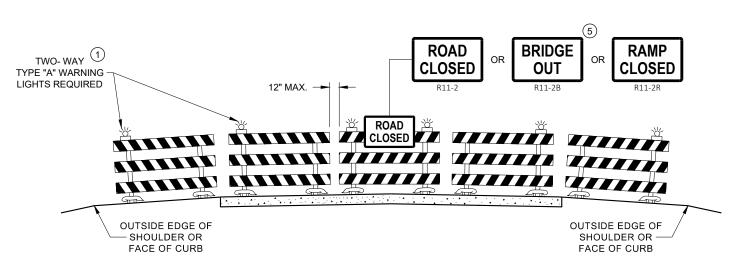




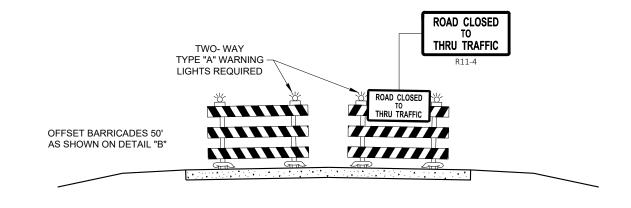








DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS

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

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

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

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

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

R11 - 2 SHALL BE 48" X 30"

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

M4 - 9 SHALL BE 30" X 24"

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

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

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

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

R1 - 1 SHALL BE 36" X 36"

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

FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

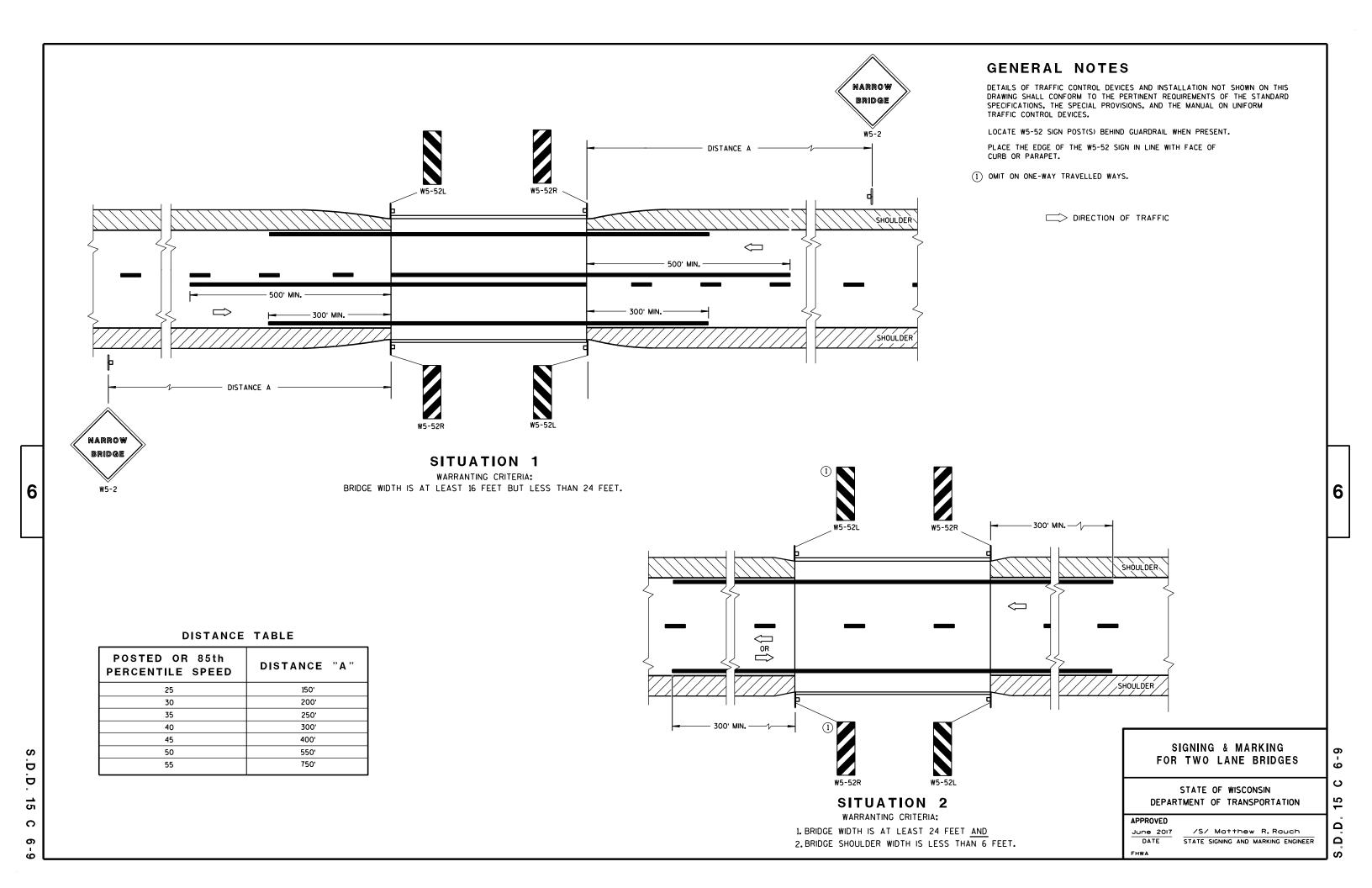
APPROVED

February 2020 ____

/S/ Andrew Heidtke
WORK ZONE ENGINEER

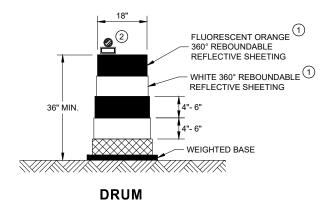
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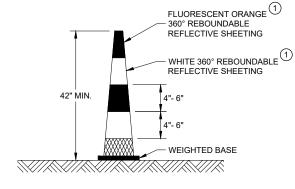
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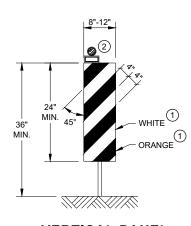
GENERAL NOTES

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

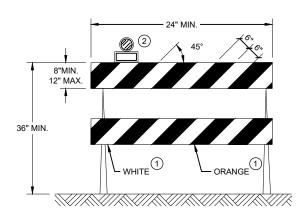




42" CONE DO NOT USE IN TAPERS ½ SPACING OF DRUMS

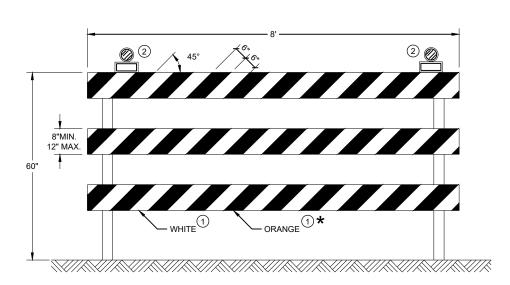


VERTICAL PANEL THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

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



TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

<u>60</u>

15C

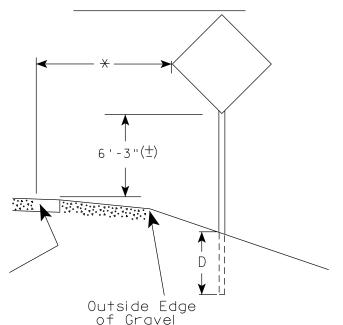
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2021	/S/ Andrew Heidtke
DATE WORK ZONE ENGINEER	
EHW/A	

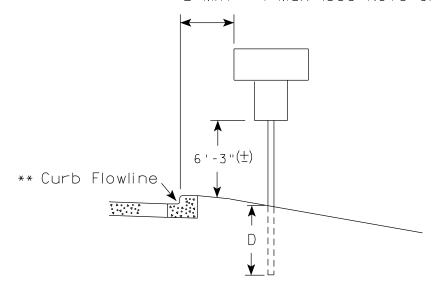
2' Min - 4' Max (See Note 6)

The state of t

White Edgeline Location



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



White Edgeline Location

geline

Outside Edge
of Gravel

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

HWY:

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

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.

2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.

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

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

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

SHEET NO:

Ε

PROJECT NO:

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

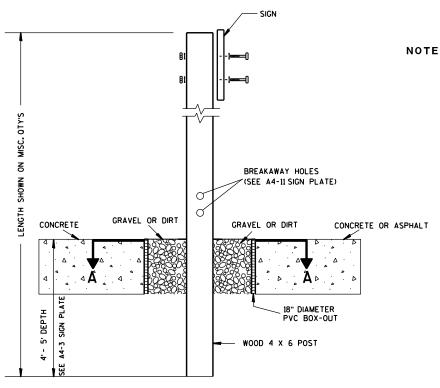
measured from the flow line.

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

PLOT BY : mscj9h

PLOT NAME :

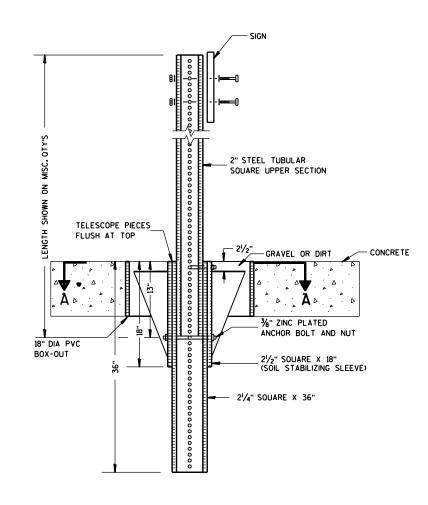
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



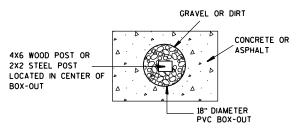
ELEVATION VIEW

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

ELEVATION VIEW

DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE : 13.659812:1.000000

APPROVED

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

POST EMBEDMENT DEPTH

D
(Min)
4'
5'

OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

TYPICAL INSTALLATION

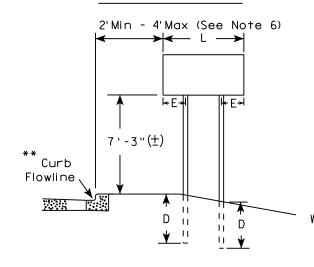
For State Traffic Engineer

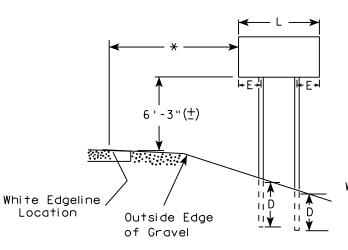
DATE 8/21/17 PLATE NO. 44-4.15

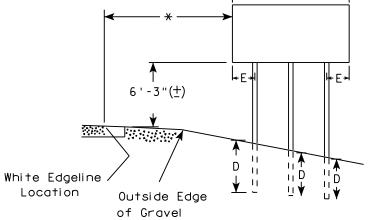
SHEET NO:

URBAN AREA

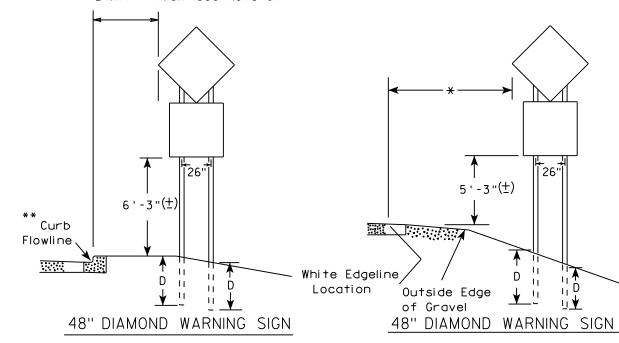
RURAL AREA (See Note 3)







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



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

HWY:

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

COUNTY:

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

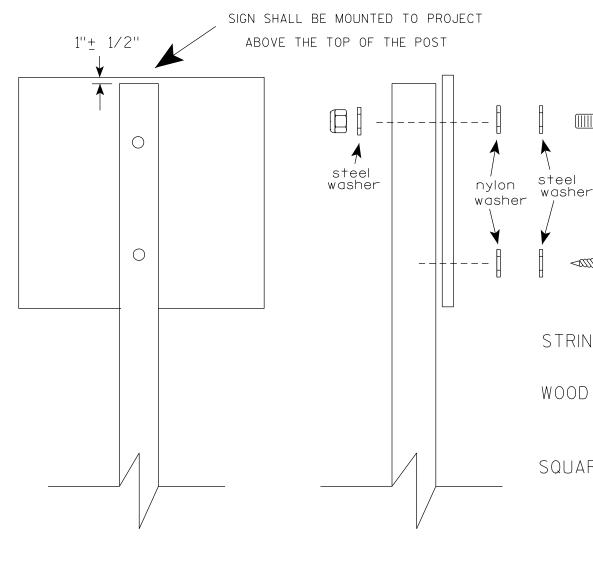
PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

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

PLOT SCALE: 108.188297:1.000000

WISDOT/CADDS SHEET 42



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

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

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

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

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

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

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

SQUARE STEEL POSTS (2" x 2")

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

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

WASHERS (ALL POSTS) -

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

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

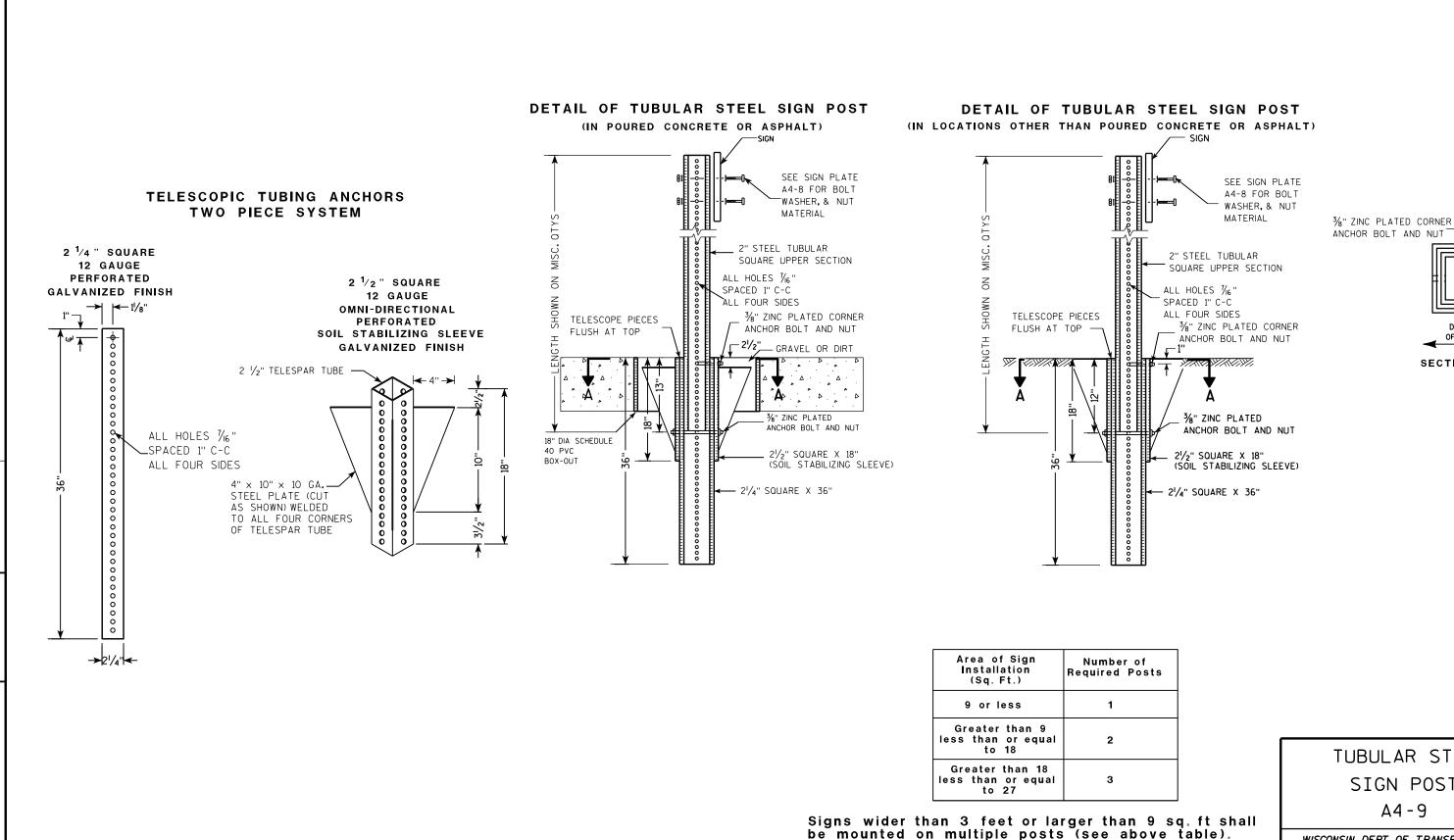
PLATE NO. <u>A4-8.9</u>

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

Ε



TUBULAR STEEL SIGN POST A4-9

WISCONSIN DEPT OF TRANSPORTATION

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

SHEET NO:

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

HWY:

PROJECT NO:

PLOT DATE: 05-FEB-2015 17:09

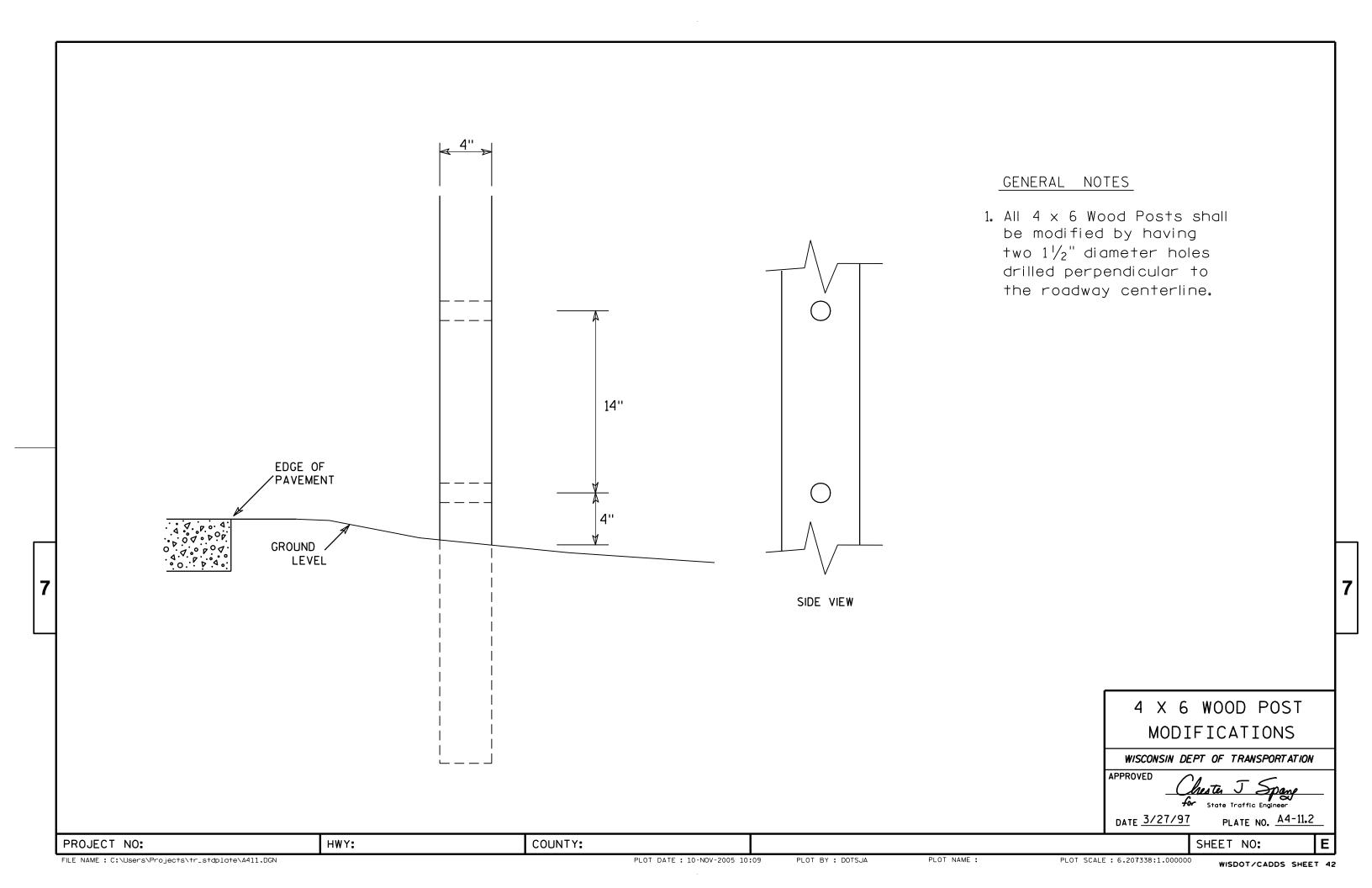
COUNTY:

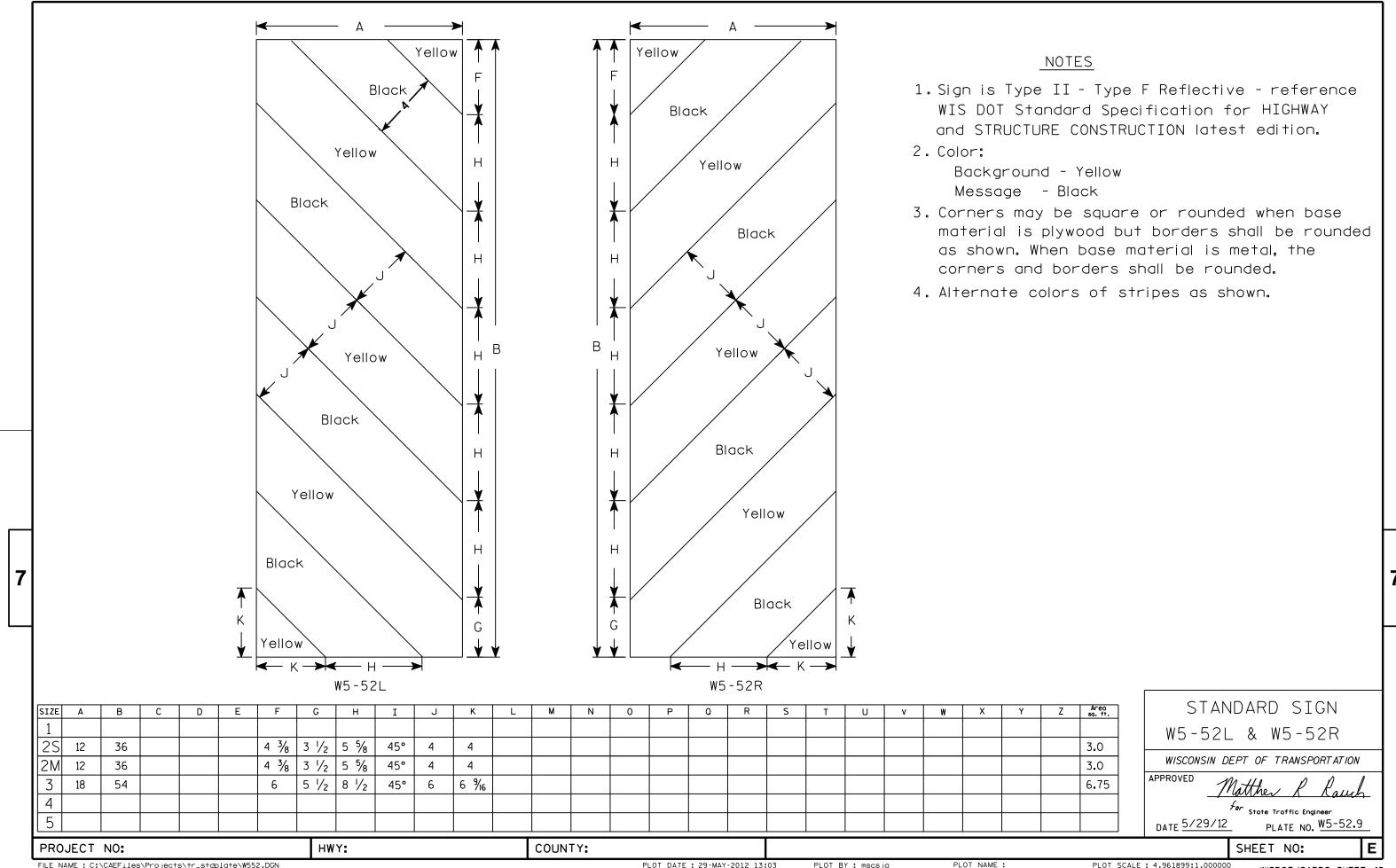
PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

SECTION A-A





HL-93

- RF=1.46

— RF=1.13

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

fc = 3,500 P.S.I.

f u = 60.000 P.S.I.

DESIGN DATA

DESIGN LOADING

MATERIAL PROPERTIES:

FOUNDATION DATA:

ALL OTHER -

REINFORCEMENT

LENGTHS AT N. ABUT.

INVENTORY RATING FACTOR -

WISCONSIN STANDARD PERMIT

CONCRETE MASONRY, SLAB -

HIGH-STRENGTH BAR STEEL

VEHICLE RATING (WIS .- SPV): - 250 KIPS

ABUTMENTS TO BE SUPPORTED ON HP 10X42 STEEL

PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE

TONS PER PILE** AT N. ABUT. AS DETERMINED BY

20 FT PILE LENGTHS AT S. ABUT. AND 20 FT PILE

PIER 1 & PIER 2 TO BE SUPPORTED ON HP 10X42 STEEL PILING AND SHALL BE PRE-BORED A MINIMUM OF 3-FT INTO THE BEDROCK THE MAXIMUM FACTORED AXIAL COMPRESSION DESIGN LOAD IS 85

TONS PER PILE AT PIER 1 & PIER 2. ESTIMATED 20

**THE FACTORED AXIAL RESISTANCE OF PILES IN

COMPRESSION USED FOR DESIGN IS THE REQUIRED

DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE

-5,620 C.F.S.

FACTOR OF 0.5 USING MODIFIED GATES DYNAMIC

FORMULA TO DETERMINE DRIVEN PILE CAPACITY.

FT PILE LENGTHS AT PIER 1 & PIER 2.

THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED

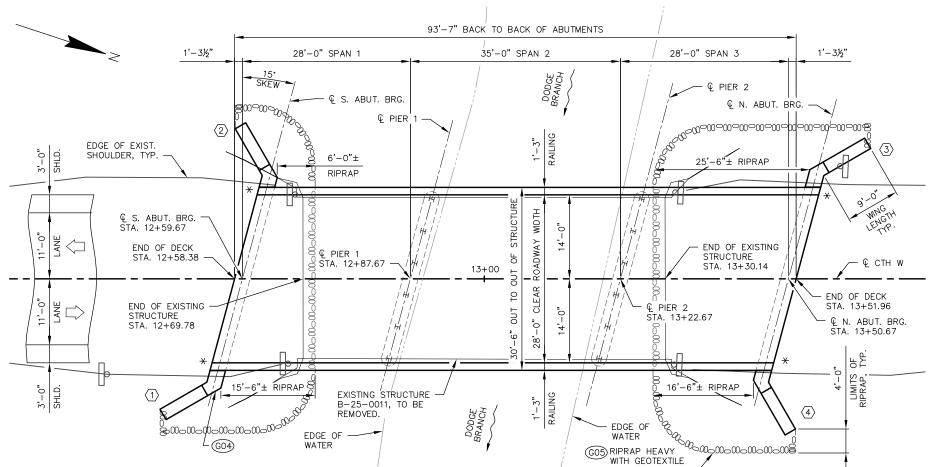
OF 140 TONS PER PILE** AT S. ABUT. AND 120

STRUCTURE IS DESIGNED FOR A FUTURE WEARING

SURFACE OF 20 POUNDS PER SQUARE FOOT.

OPERATING RATING FACTOR

LIVE LOAD:



PLAN B-25-195

(THREE SPAN CONCRETE FLAT SLAB BRIDGE)

TRAFFIC DATA:

DESIGN SPEED

A.A.D.T. (2023) — 220

A.A.D.T. (2043) — 240

— 60 M.P.H.

BM #1 | 11+01.63, 47.70' LT.

13+51.10, 50.97' LT.

HORIZONTAL DATUM AND ADJUSTMENT: NAD 83 (2011)

VERTICAL DATUM AND ADJUSTMENT: NAVD 88 (2012)

COORDINATE REFERENCE SYSTEM: WCCS IOWA CO.

BM #2

RR SPIKE

RR SPIKE

893.29

891.87

NOTES

- EXCAVATION AS INDICATED IN THE HATCH AREAS, TO BE INCLUDED IN THE BID ITEM "EXCAVATION FOR STRUCTURES BRIDGES B-25-195".
- (GO1) BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCLUDED WITH BID ITEM "EXCAVATION FOR STRUCTURES BRIDGES B-25-195". LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR
- (GO2) "GEOTEXTILE TYPE DF SCHEDULE A" LIMITS. EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT FOR THE ENTIRE ABUTMENT BODY LENGTH.
- (603) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED IN "ABUTMENT DETAILS" SHEET.
- (GO4) NAME PLATE REQUIRED AND BENCH MARK CAP (WHEN SUPPLIED). FOR LOCATION SEE ABUTMENT" SHÉET.
- (GO5) ALL RIPRAP ABOVE EL. 887.23 (OHWM) MUST BE TOP-DRESSED WITH SOIL AND SEEDED WITH AN APPROVED SEED MIX. SEE ROADWAY PLANS FOR
- * LOCATION OF BEAM GUARD ATTACHMENT
- \bigcirc INDICATES WING NUMBER

LIST OF DRAWINGS

- GFNERAL PLAN
- SUBSURFACE EXPLORATION
- PIFR DETAILS
 - HYDRAULIC DATA:

Q₁₀₀ (THRU BRIDGE) --4,761 C.F.S. Q₁₀₀ (ROAD) -859 C.F.S. DRAINAGE AREA -38.1 SQ. MI BRIDGE WATER AREA -605 SQ. FT. BRIDGE VELOCITY HIGH WATER 100 EL. -896.95 FT. OVERTOPPING O - 3.850 C.F.S OVERTOPPING EL. - 895.31 FT OVERTOPPING Q FREQ. -24 YEARS SCOUR CRITICAL CODE -- 1.138 C.F.S. Q2 ELEVATION - 890.89 FT. Q2 VELOCITY - 4.75 F.P.S.

BRIDGE OFFICE CONTACT (608) 261-0261

DESIGN Q 100

CONSULTANT CONTACT ANDY KNUTSON, P.E., S.E. (608) 588-7866

RY

NO. DATE REVISION 619 EAST HOXIE STREET P.O. BOX 429 SPRING GREEN, WI 53588 WESTBROOK PHONE (608) 588-7866

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

05/10/22 ACCEPTED CHIEF STRUCTURES DESIGN ENGINEER DATE STRUCTURE B-25-195

CTH W OVER DODGE BRANCH PECATONICA RIVER IOWA AASHTO LRFD DESIGN SPEC ESIGNED JDO DESIGN CDS DRAWN JDO PLANS CK'D. ACK

GENERAL PLAN

SHEET 1 OF 9

CROSS SECTION, GENERAL NOTES & QUANTITIES

> ARLITMENTS ABUTMENT DETAILS

SUPERSTRUCTURE

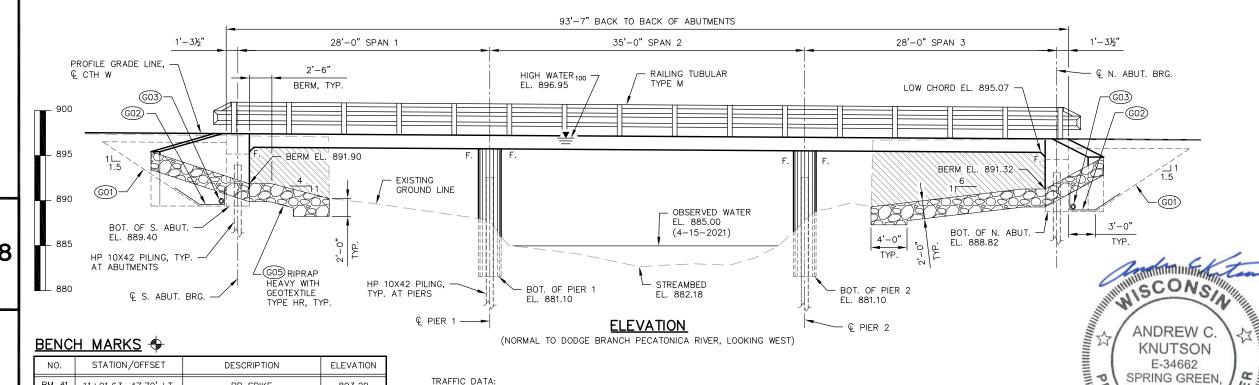
PA

WI

5.2.202

ESSIONAL

SUPERSTRUCTURE DETAILS RAILING TUBULAR TYPE M



TYPE HR, TYP.

MINIMUM MAL

I.D. 5683-00-72

PLOT DATE: May 02, 2022

CROSS SECTION THRU ROADWAY

(LOOKING NORTH)

UNIT

FACH

LS

TON

CY

SY

LB

LB

SY

1 F

LF

CY

LF

SY

SY

SY

SIZE

S. ABUT.

230

30.9

17

2,335

1,415

140

53

80

35

105

71

PIER 1

39.5

1,785

65

60

120

PIER 2

38.8

1,785

65

60

120

N. ABUT.

230

30.9

17

2,335

1,415

140

93

80

35

173

134

SUPER.

163.8

367

31,610

192

TOTALS

460

304 401

8,240

34,570

192

14

120

520

146

160

70

278

205

1/2" & 3/4"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

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

BEVEL EXPOSED EDGES OF CONCRETE $\frac{3}{4}$ " UNLESS OTHERWISE NOTED

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

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 INCLUDED WITH BID ITEM "EXCAVATION FOR STRUCTURES BRIDGES B-25-195".

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.

DO NOT PLACE FILL ABOVE 3'-0" FROM BOTTOM OF ABUTMENT UNTIL SUPERSTRUCTURE IS IN PLACE.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE, UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

STATE PROJECT NUMBER

5683-00-72

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-25-195" SHALL BE THE EXISTING GROUND LINE.

THE EXISTING STREAM BED SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS.

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" AND "ABUTMENT" SHEFTS

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE SUPERSTRUCTURE SLAB PER THE STANDARD SPECIFICATION.

A MINIMUM OF 3-FEET OF PRE-BORE AT THE PIER INTO SUITABLE BEDROCK IS REQUIRED IF THE MINIMUM 10-FEET OF PILE PENETRATION INTO NATURAL GROUND CANNOT BE ACHIEVED. THE CONTRACTOR AND THE CONSTRUCTION ENGINEER SHOULD ANTICIPATE VARIABLE PILE PENETRATION AND POSSIBLE ADDITIONAL LOCATIONS OF PRE-BORING.

PILES PLACED IN PREBORED HOLES CORED INTO ROCK DO NOT REQUIRE DRIVING. PILES SHALL BE "FIRMLY SEATED" ON ROCK AFTER PLACEMENT IN PREBORED HOLES.

THE EXISTING STRUCTURE B-25-0011 IS A SINGLE SPAN STEEL DECK GIRDER BRIDGE WITH AN OVERALL LENGTH OF 60'-6'' AND A CLEAR ROADWAY WIDTH OF 27'-2''. SUPERSTRUCTURE AND ABUTMENTS SHALL BE REMOVED IN ACCORDANCE WITH THE BID ITEM "REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS B-25-0011".

© STA. 12+08.37 EL. 897.80 © S. ABUT. BRG. STA. 12+59.67 EL. 897.47 EL. 897.30 © PIER 1 STA. 12+87.67 EL. 897.30 © PIER 2 STA. 13+20.67 EL. 897.07 EL. 897.07 EL. 897.07 EL. 897.07 EL. 897.07 EL. 897.07 EL. 897.07

PROFILE GRADE LINE, & CTH W

ABUTMENT BACKFILL DIAGRAM

L = ABUTMENT BODY LENGTH AT BACKFACE (FT) H = AVERAGE ABUTMENT FILL HEIGHT (FT)

H1 = WING 1 HEIGHT AT TIP (FT)

H1 = WING I HEIGHT AT TIP (FT) H2 = WING 2 HEIGHT AT TIP (FT)

W = WING LENGTH (FT)

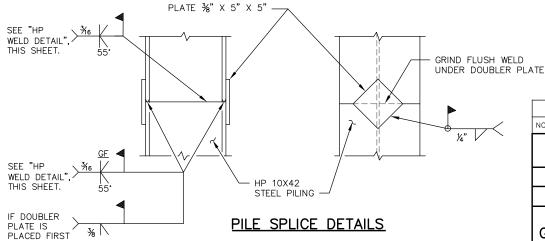
EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)

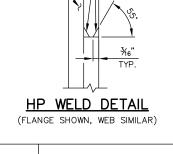
 $V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H) + (3')(0.5)(H1+H2+H+H)(W)$

 $V_{CY} = V_{CF}(EF)/27$

 $V_{TON} = V_{CY}(2.0)$

DOUBLER PLATE WELD (TYP.)





STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STRUCTURE B-25-195

ORAWN CDS PLANS ACK

CROSS SECTION,
GENERAL NOTES & QUANTITIES

8

NOTES

ITEM NO.

203.0260

206.1000

210.1500

502.0100

502 3200

505.0400

505.0600

513.4061

516.0500

550.0020

550.1100

606.0300

612.0406

645.0111

645.0120

SPV 0180 01

(NON-BID ITEM) | FILLER

OF ABUTMENT BODY.

TOTAL ESTIMATED QUANTITIES

B-25-0011

RIPRAP HEAVY

GEOTEXTILE TYPE HR

BACKFILL STRUCTURE TYPE A

CONCRETE MASONRY BRIDGES

RAILING TUBULAR TYPE M

PROTECTIVE SURFACE TREATMENT

(GOB) COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD SPECIFICATIONS. PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO ENTIRE EXPOSED TOP OF SLAB INCLUDING THE SLAB EDGES AND 1'-0" UNDER THE SLAB, THE TOP AND EXTERIOR EXPOSED FACE OF WINGS, AND THE FRONT FACE OF WINGS, AND THE FRONT FACE OF THE

(GO7) 3/4" V-GROOVE REQ'D. EXTEND V-GROOVE TO 6" FROM FRONT FACE

BID ITEMS

REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS

EXCAVATION FOR STRUCTURES BRIDGES B-25-195

BAR STEEL REINFORCEMENT HS COATED STRUCTURES

PRE-BORING ROCK OR CONSOLIDATED MATERIALS

BAR STEEL REINFORCEMENT HS STRUCTURES

RUBBERIZED MEMBRANE WATERPROOFING

PILING STEEL HP 10-INCH X 42 LB

PIPE UNDERDRAIN WRAPPED 6-INCH

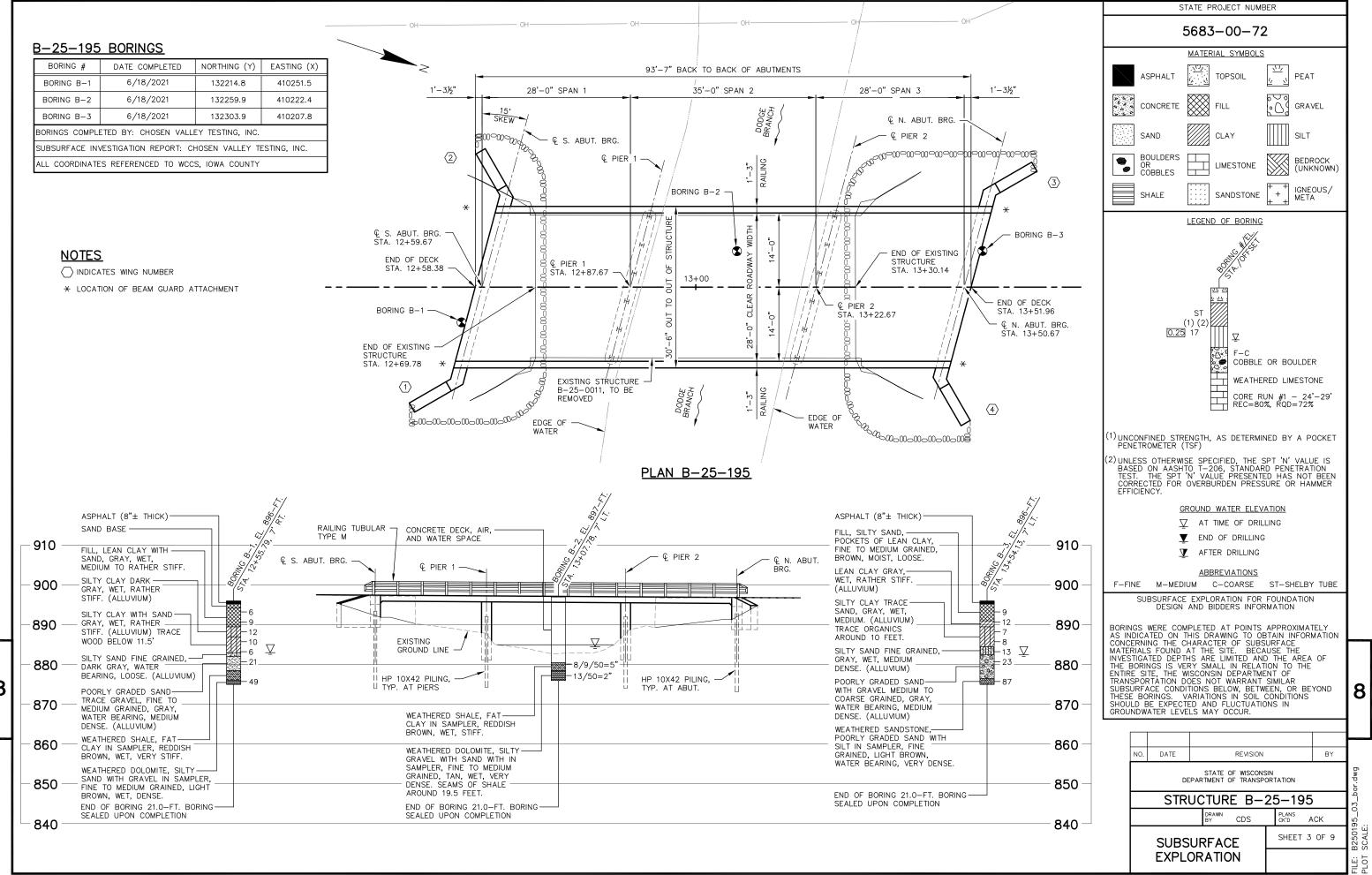
GEOTEXTILE TYPE DF SCHEDULE A

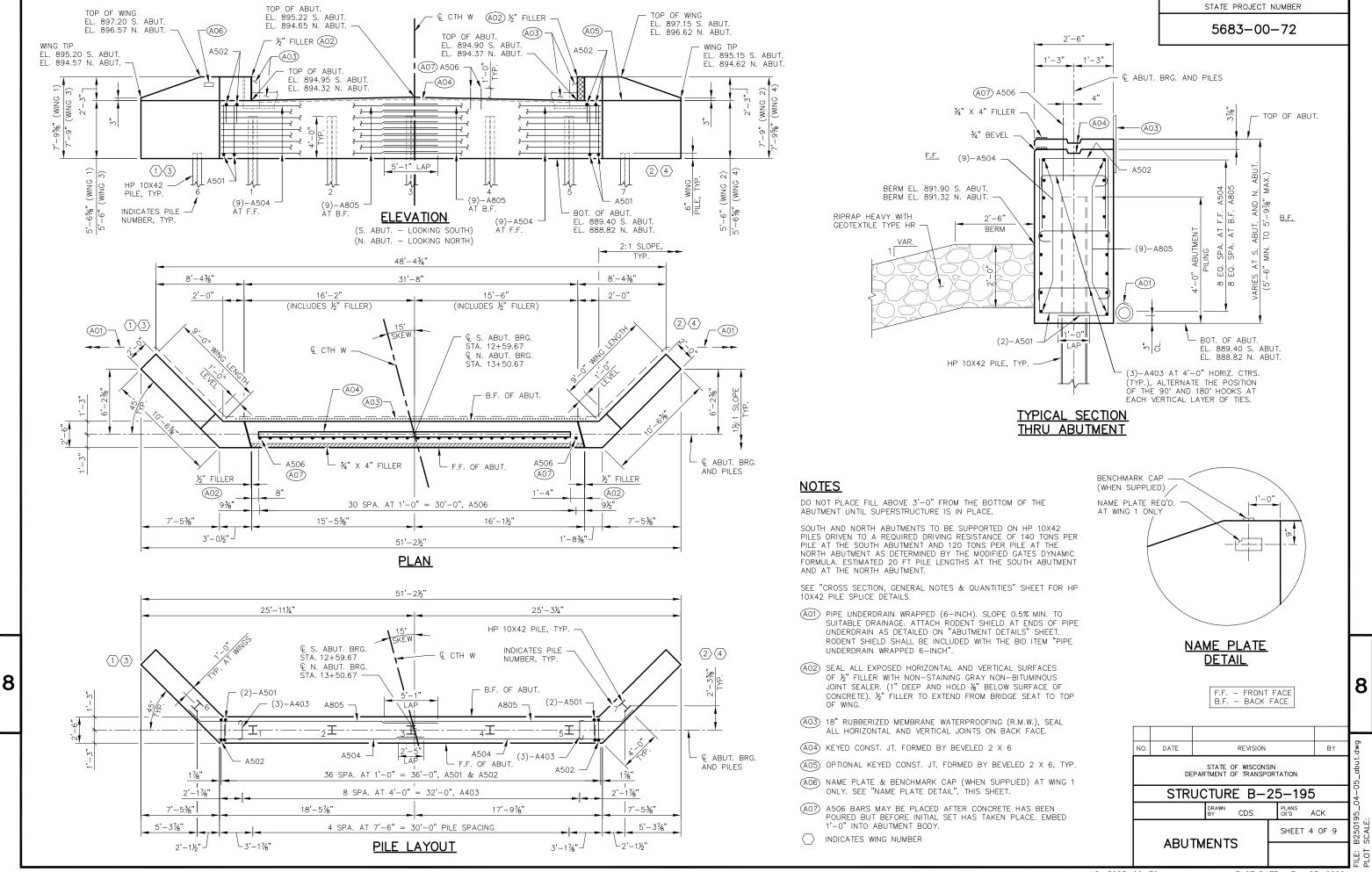
SALVAGED TOPSOIL OVER RIPRAP

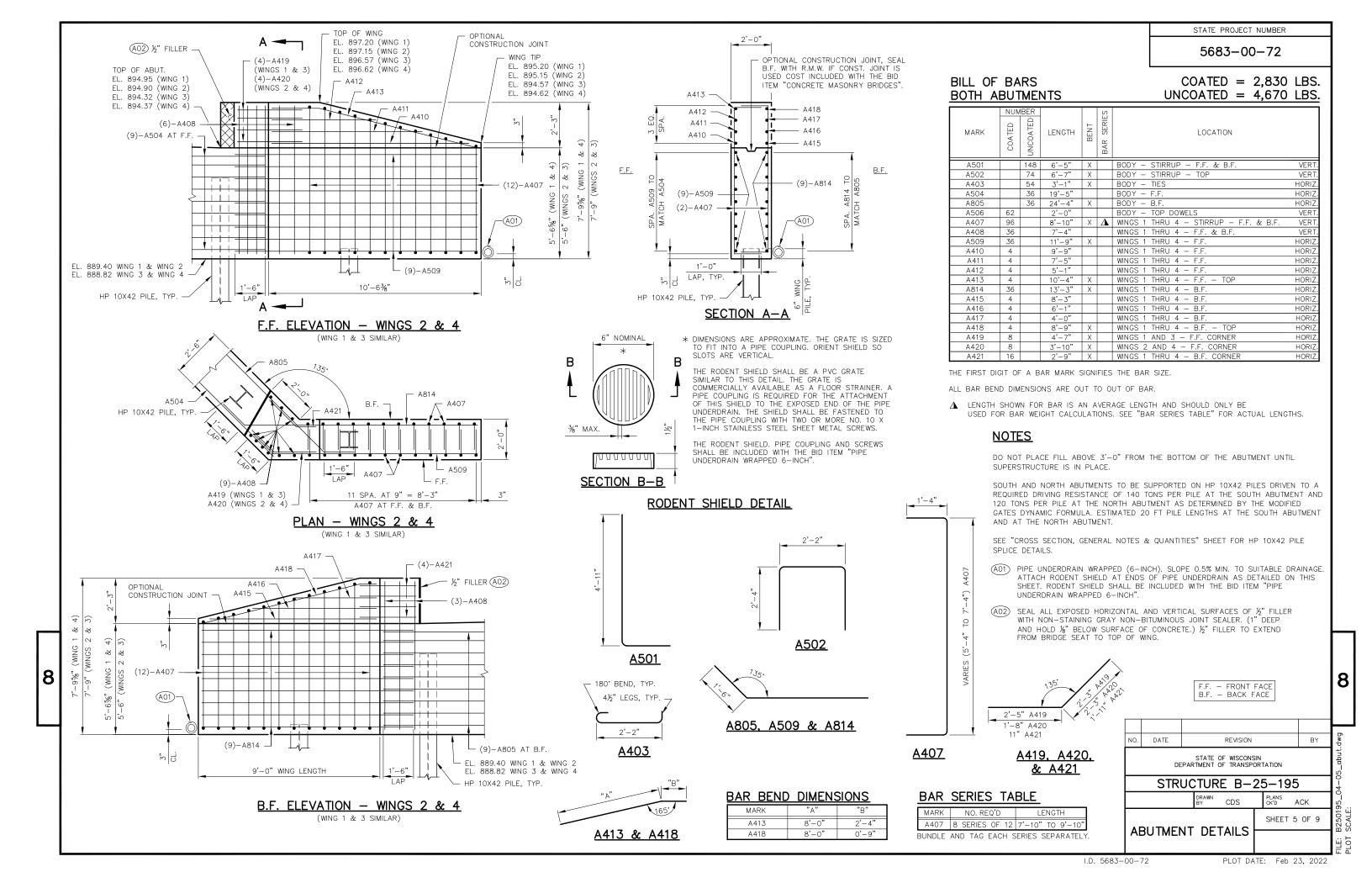
ABUTMENTS TO 1'-0" PAST THE EDGE OF SLAB.

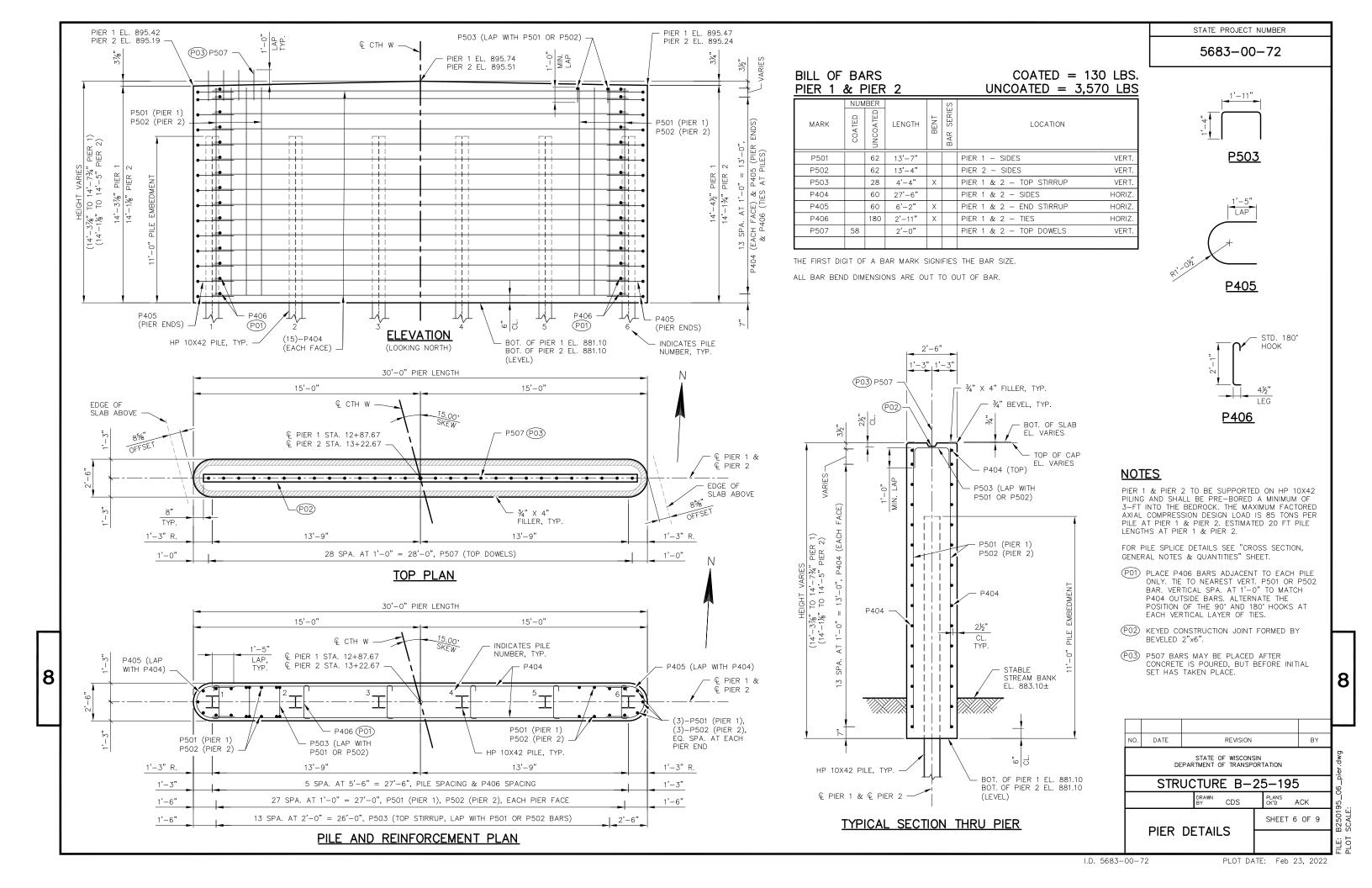
I.D. 5683-00-72 PL

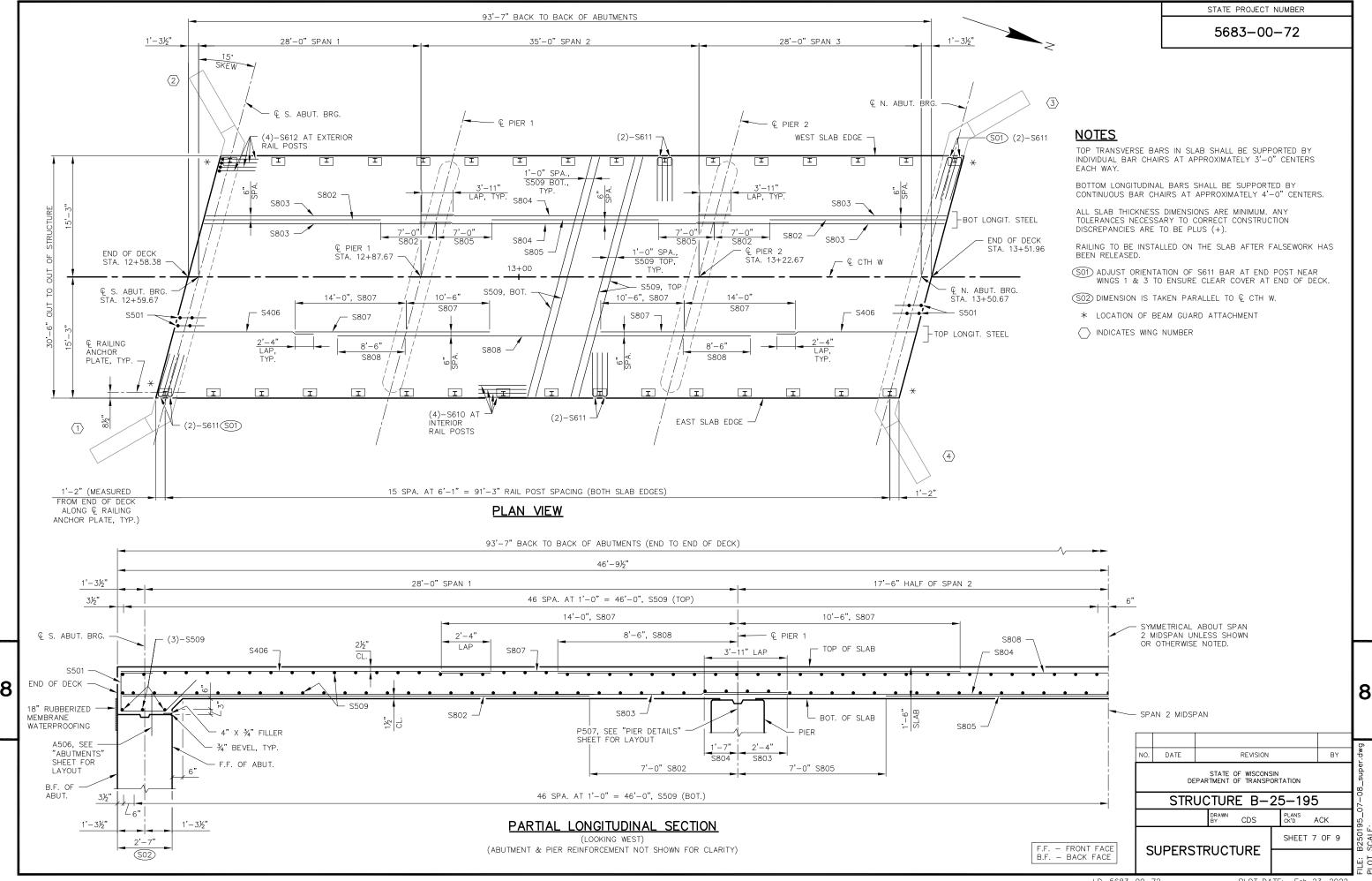
PLOT DATE: Feb 23, 2022













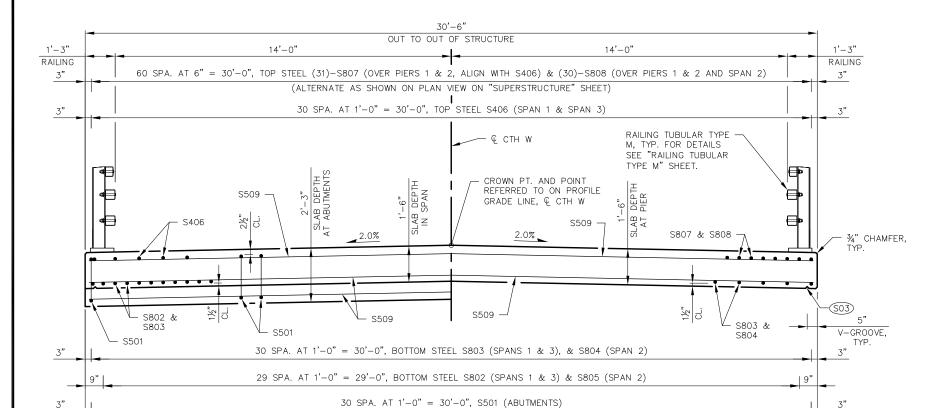


COATED = 31,610 LBS.

MARK	COATED	UNCOATED 3	LENGTH	BENT	BAR SERIES	LOCATION				
S501	62		7'-3"	Х		SLAB AT ABUTMENT - STIRRUPS	VERT.			
S802	60		22'-1"			SLAB - BOTTOM SPAN 1 & 3	LONGIT.			
S803	62		31'-5"			SLAB - BOTTOM SPAN 1 & 3	LONGIT.			
S804	31		38'-2"			SLAB - BOTTOM SPAN 2	LONGIT.			
S805	30		21'-0"			SLAB - BOTTOM SPAN 2	LONGIT.			
S406	62		17'-6"			SLAB - TOP SPAN 1 & 3	LONGIT.			
S807	62		24'-6"			SLAB - TOP OVER PIERS	LONGIT.			
S808	30		52'-0"			SLAB - TOP OVER PIERS & SPAN 2	LONGIT.			
S509	195		31'-2"			SLAB - TOP & BOTTOM	TRANS.			
S610	112		6'-0"			SLAB - TOP AT INTERIOR RAIL POSTS	LONGIT.			
S611	64		12'-0"	Χ		SLAB - TOP AT RAIL POSTS	TRANS.			
S612	16		4'-8"	Х		SLAB - TOP AT EXTERIOR RAIL POSTS	LONGIT.			

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

ALL BAR BEND DIMENSIONS ARE OUT TO OUT OF BAR.



CROSS SECTION THRU ROADWAY

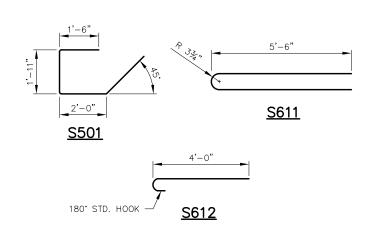
(LOOKING NORTH)

SURVEY TOP OF SLAB ELEVATIONS

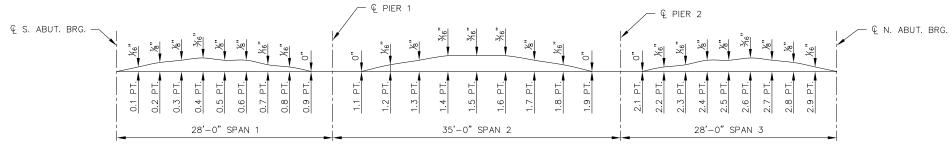
	€ S. ABUT. BRG.	5/10 PT.	© PIER 1	5/10 PT.	© PIER 2	5/10 PT.	€ N. ABUT. BRG.
WEST SLAB EDGE							
€ CTH W							
EAST SLAB EDGE							

AT ABUTMENTS

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



AT PIER



SLAB CAMBER DIAGRAM

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

TOP OF SLAB ELEVATION AT FINAL GRADE LESS SLAB THICKNESS

LESS SLAB THICKNES PLUS CAMBER

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

EQUALS TOP OF SLAB FALSEWORK ELEVATION.

	OF SLAE		
SPAN PT	WEST SLAB EDGE	© CTH W	EAST SLAB EDGE
€ S. ABUT.	897.15	897.47	897.20
0.1	897.13	897.46	897.18
0.2	897.11	897.44	897.16
0.3	897.09	897.42	897.15
0.4	897.08	897.40	897.13
0.5	897.06	897.39	897.11
0.6	897.04	897.37	897.09
0.7	897.02	897.35	897.08
0.8	897.01	897.33	897.06
0.9	896.99	897.31	897.04
© PIER 1	896.97	897.30	897.02
1.1	896.95	897.27	897.00
1.2	896.93	897.25	896.98
1.3	896.90	897.23	896.96
1.4	896.88	897.21	896.93
1.5	896.86	897.18	896.91
1.6	896.84	897.16	896.89
1.7	896.81	897.14	896.87
1.8	896.79	897.12	896.84
1.9	896.77	897.10	896.82
© PIER 2	896.75	897.07	896.80
2.1	896.73	897.06	896.78
2.2	896.71	897.04	896.76
2.3	896.69	897.02	896.75
2.4	896.68	897.00	896.73
2.5	896.66	896.98	896.71
2.6	896.64	896.97	896.69
2.7	896.62	896.95	896.68
2.8	896.61	896.93	896.66
2.9	896.59	896.91	896.64
ℚ N. ABUT.	896.57	896.90	896.62

NOTES

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

\$\) \frac{3}{4}" V-GROOVE. EXTEND V-GROOVE TO 6" FROM FRONT FACE OF ABUTMENT BODY. V-GROOVES ARE REQUIRED.

O. DATE REVISION BY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STRUCTURE B-25-195

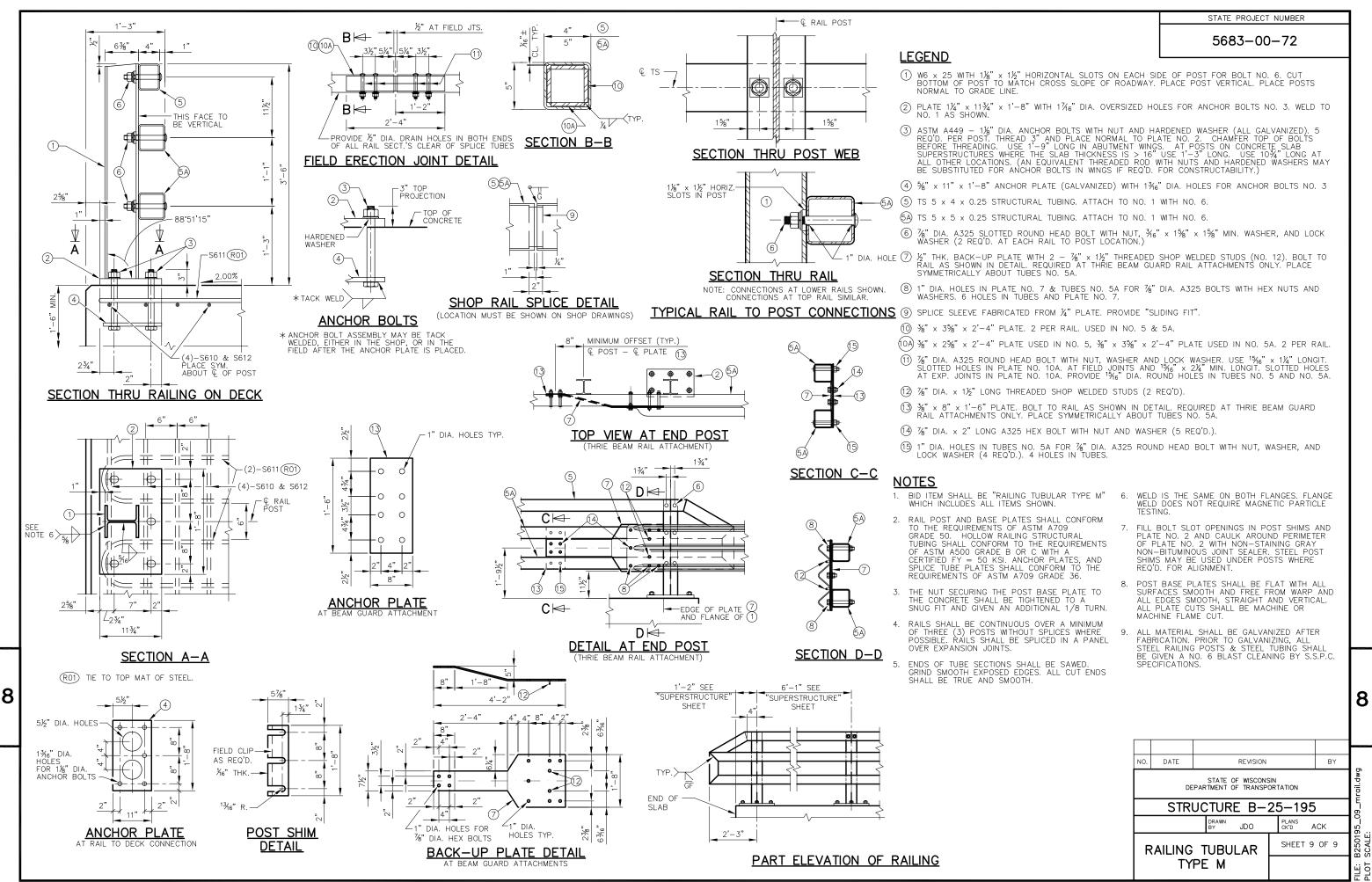
DRAWN CDS PLANS ACK

SUPERSTRUCTURE SHEET 8 OF 9

EVEN SHEET 8 OF 9

SUPERSTRUCTURE DETAILS

SHEET 8 OF 9



5!		AREA (SF)			INCREM	MENTAL VOL (CY) (UNADJ	USTED)	CUMUL			
STATION	STATION	DISTANCE	СИТ	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT Note 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL Note 2	FILL Note 3	CUT 1.00 Note 1	EXPANDED FILL 1.25	MASS ORDINATE Note 4
10+39.77	*	0.00	0.00	0.00	0	0	0	0	0	0	
10+55.96	16.19	7.34	0.00	0.00	2	0	0	2	0	2	
10+75.00	19.04	17.73	0.00	0.05	9	0	0	11	0	11	
11+00.00	25.00	22.45	0.00	3.14	19	0	1	30	1	28	
11+14.00	14.00	24.74	14.88	6.36	12	4	2	42	4	34	
11+14.01	0.01	57.72	14.88	2.48	0	0	0	42	4	34	
11+50.00	36.00	57.94	14.87	19.51	62	20	13	104	20	60	
11+64.64	14.64	46.63	14.85	29.15	28	8	13	132	36	64	
11+72.14	7.50	43.84	14.92	21.20	13	4	7	145	45	64	
11+89.62	17.48	43.12	15.23	18.16	28	10	13	173	61	66	
11+97.12	7.50	43.48	15.37	19.29	12	4	5	185	68	68	
12+08.38	11.26	46.17	15.54	23.37	19	6	9	204	79	69	
12+14.60	6.22	46.63	16.09	23.50	11	4	5	215	85	70	
12+22.11	7.51	47.02	16.42	25.90	13	5	7	228	94	69	
12+45.00	22.89	46.19	17.36	47.14	40	14	31	268	133	56	
12+58.37	13.37	21.92	8.86	39.61	17	6	21	285	159	40	
				ST	RUCTURE	B-25-0195		·			

285

85

127

DIVISION 1 TOTALS

			AREA (SF)	3 0	INCREM	IENTAL VOL (CY) (UNADJ	USTED)	CUMUI	ATIVE VOL (CY)	
STATION	DISTANCE	СИТ	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT Note 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL Note 2	FILL Note 3	CUT 1.00 Note 1	EXPANDED FILL 1.25	MASS ORDINATE Note 4
				ST	RUCTURE	B-25-0195				
13+51.96	¥	22.77	8.24	18.92	0	0	0	0	0	0
13+65.00	13.04	45.01	15.69	28.95	16	6	12	16	15	-5
13+88.23	23.23	47.09	15.34	32.49	40	13	26	56	48	-11
13+95.73	7.50	47.53	15.24	29.32	13	4	9	69	59	-13
14+01.96	6.23	47.43	15.24	29.88	11	4	7	80	68	-14
14+13.21	11.25	46.72	15.30	34.29	20	6	13	100	84	-17
14+20.71	7.50	47.76	15.29	35.71	13	4	10	113	96	-20
14+38.19	17.48	48.23	15.07	43.69	31	10	26	144	129	-32
14+45.70	7.51	48.99	15.07	37.98	14	4	11	158	143	-36
14+75.00	29.30	50.36	15.22	15.67	54	16	29	212	179	-34
14+95.99	20.99	52.12	15.27	0.93	40	12	6	252	186	-14
14+96.00	0.01	19.35	15.27	3.31	0	0	0	252	179	-34
15+25.00	29.00	24.34	0.00	0.00	23	8	2	275	181	-21
15+48.35	23.35	10.72	0.00	0.00	15	0	0	290	181	-6
15+51.77	3.42	0.00	0.00	0.00	1	0	0	291	181	-6
	DIVISION 2 TOTALS			291	87	151				
			PROJECT TOTALS		576	172	278			

NOTES:

1 - CUT

2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL

THIS DOES NOT SHOW UP IN CROSS SECTIONS

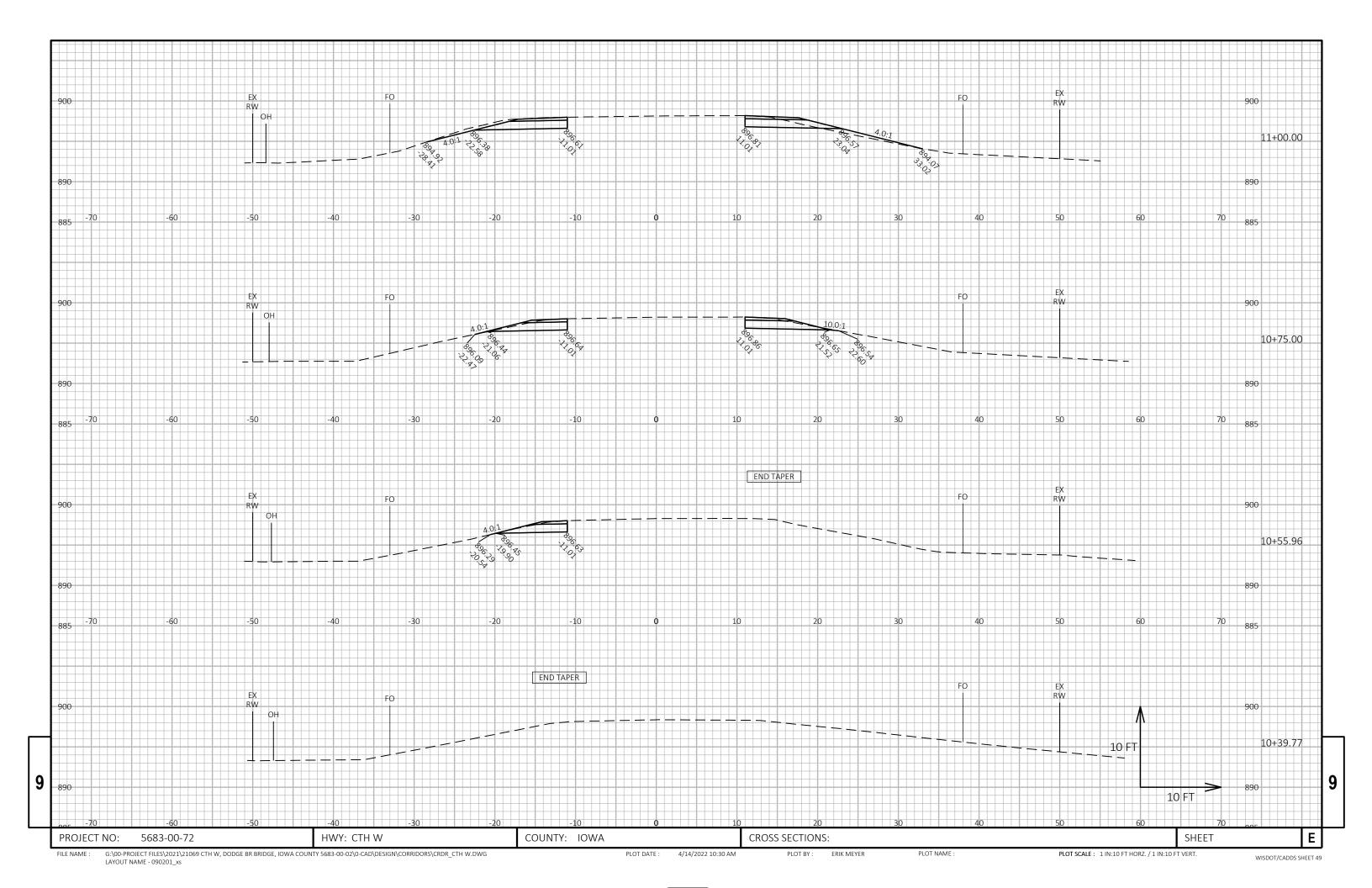
DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME

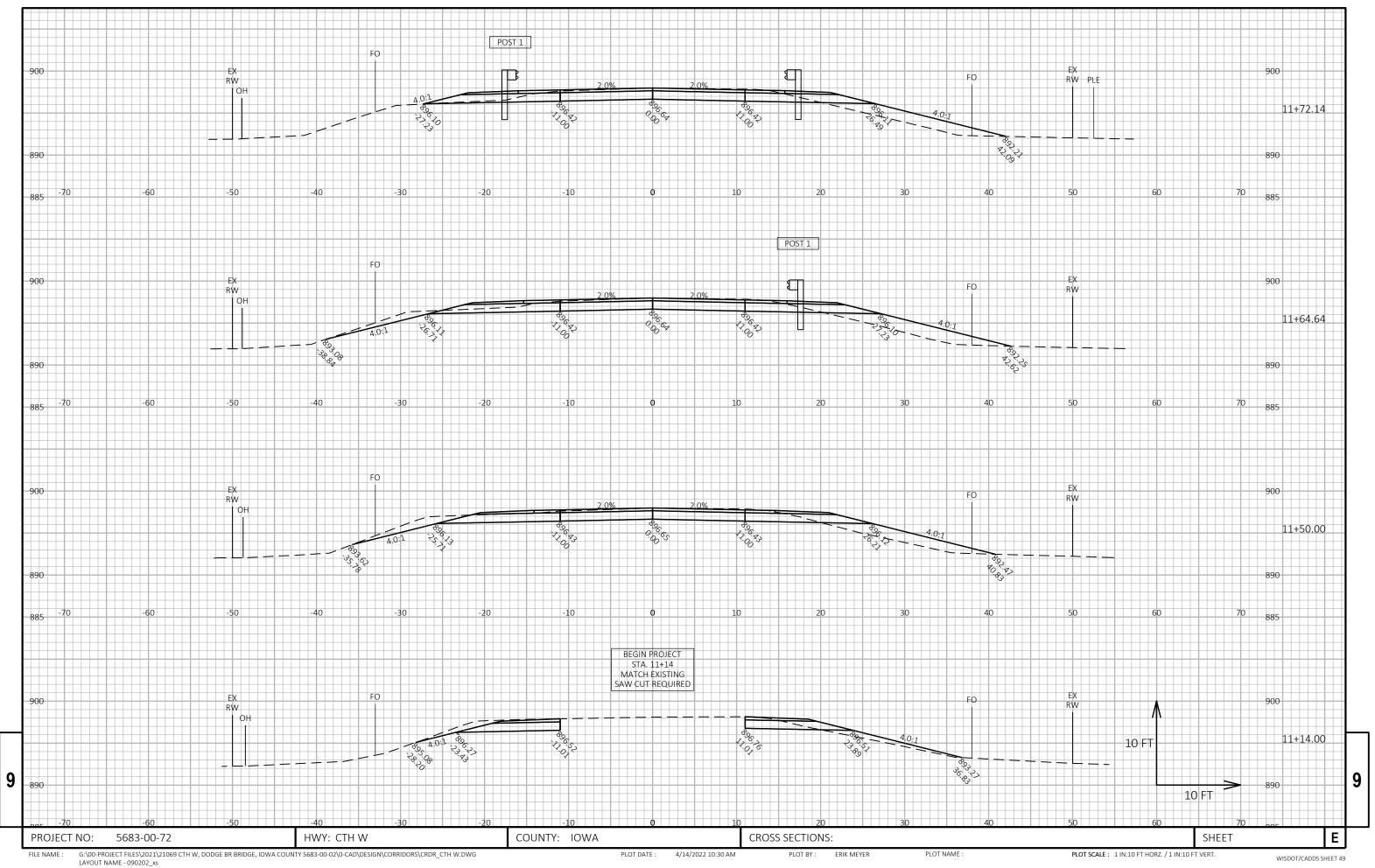
4 - MASS ORDINATE

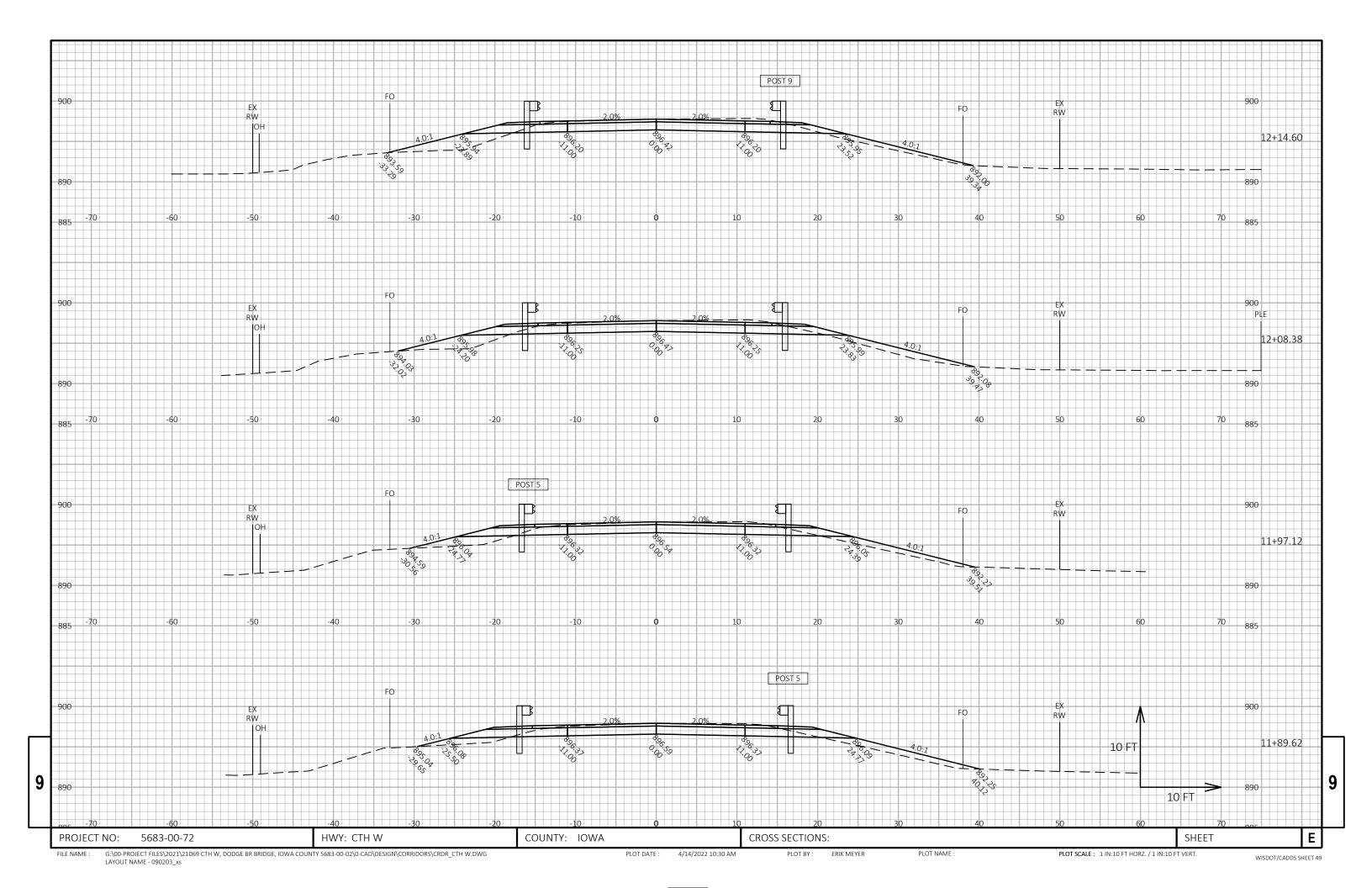
[(CUT) - (FILL * FILL FACTOR) - (SALVAGED/UNUSABLE PAVEMENT MATERIAL)]

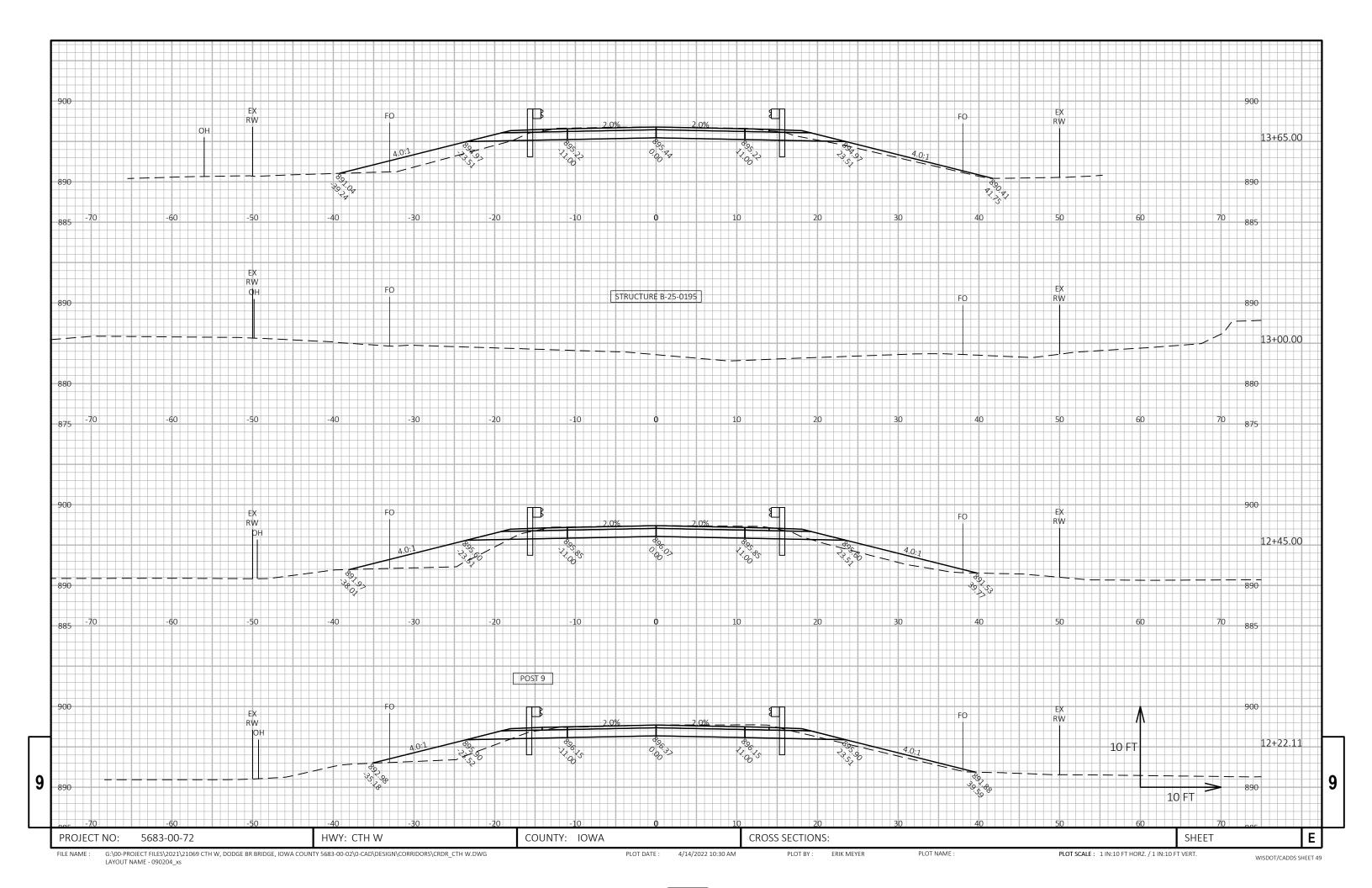
PROJECT NO: 5683-00-72 HWY: CTH W COUNTY: IOWA EARTHWORK DATA SHEET **E**

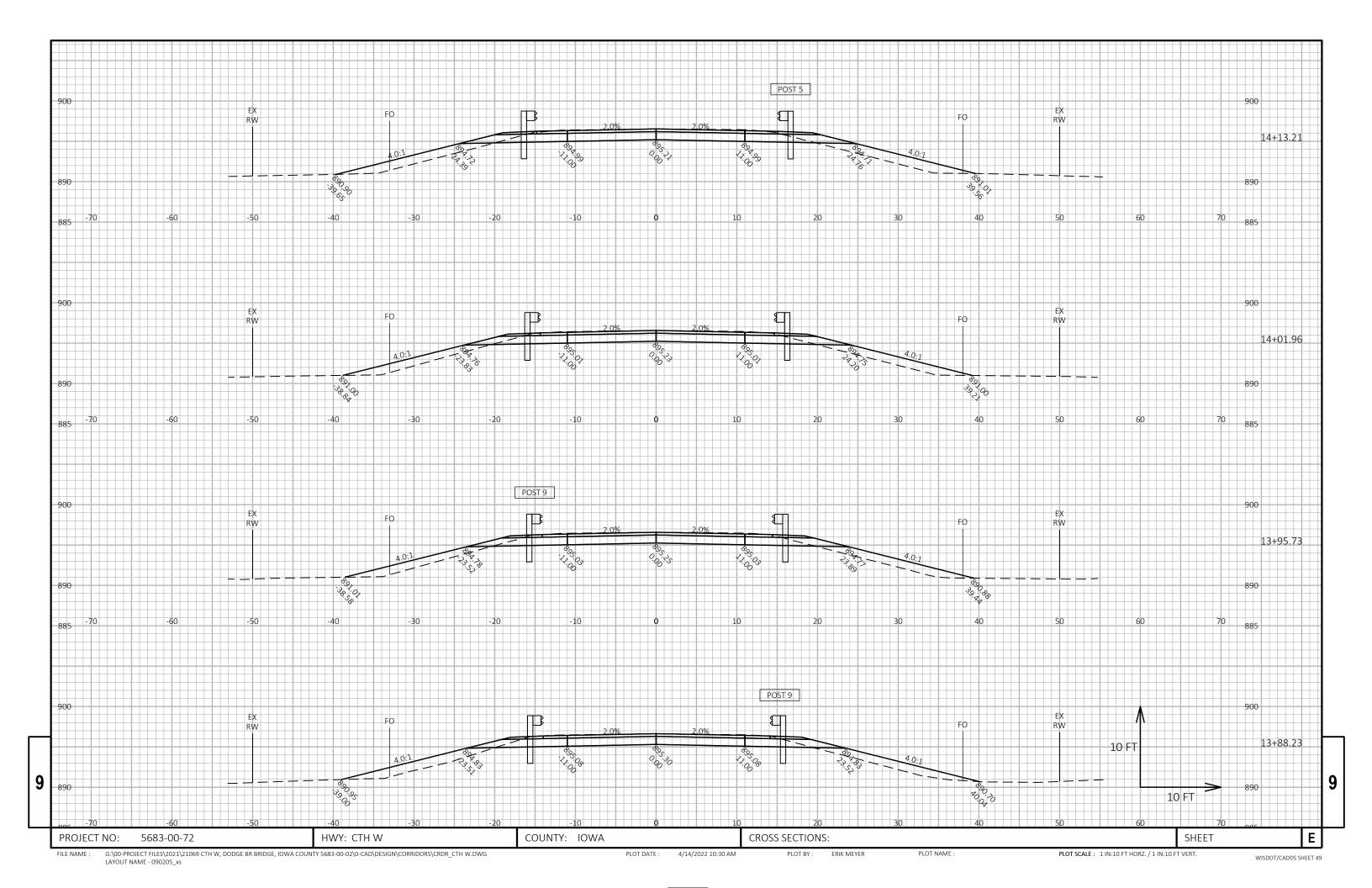
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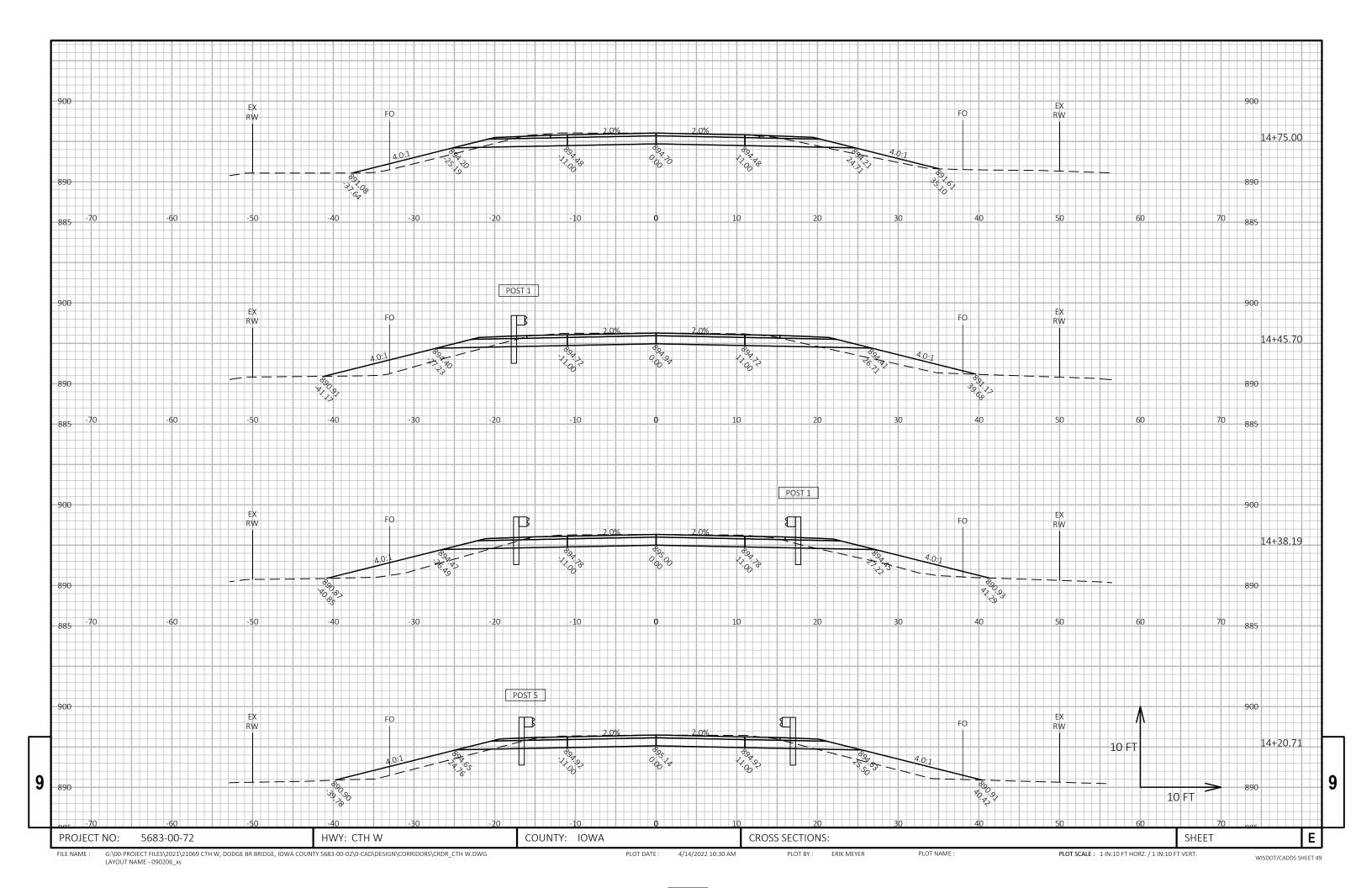


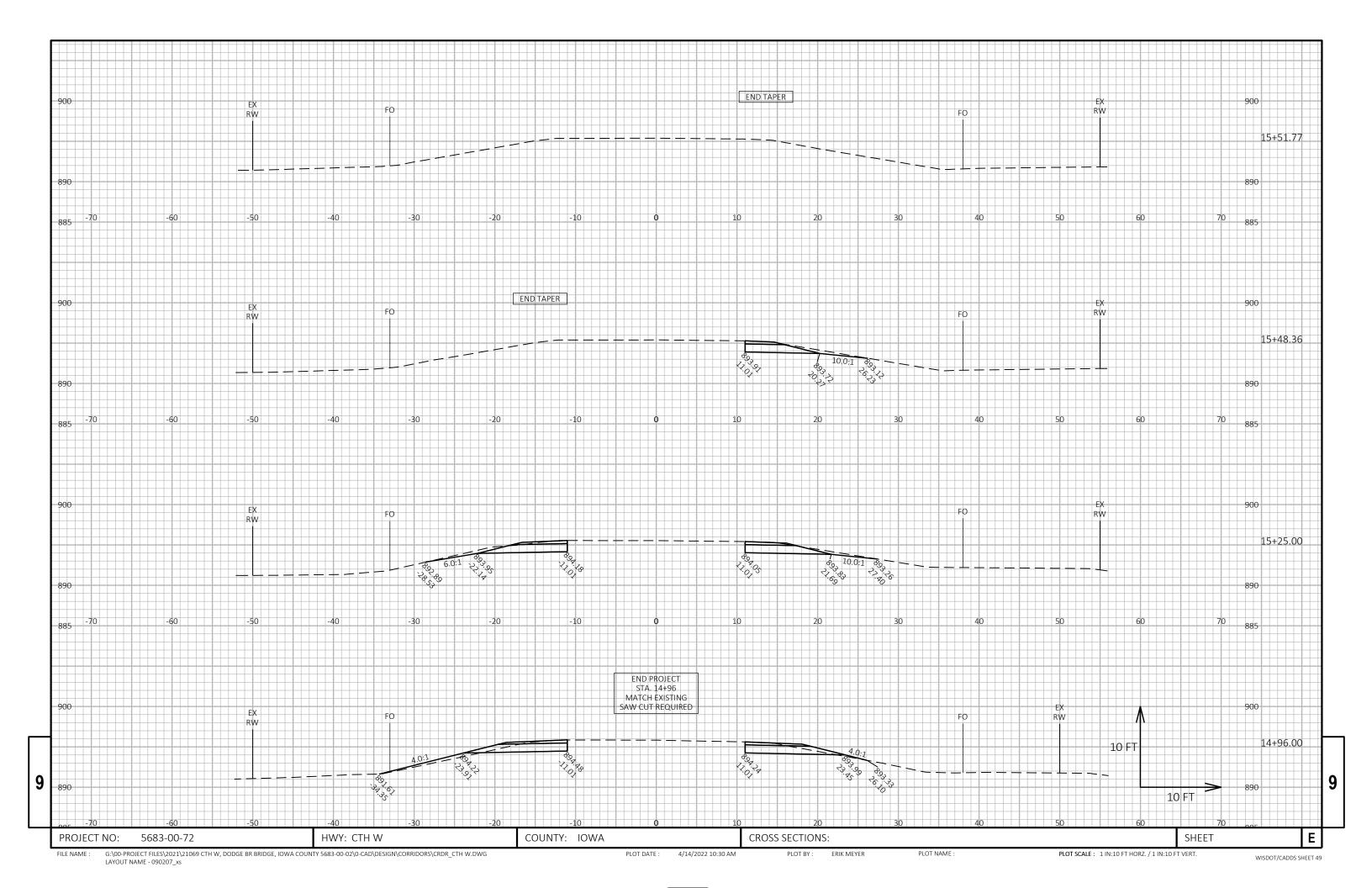




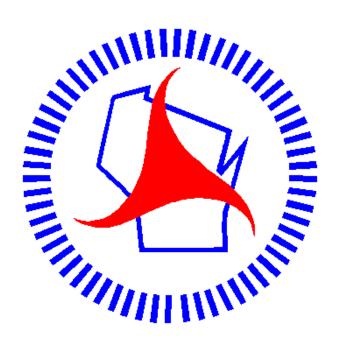








Notes



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