Section No.

Section No.

TOTAL SHEETS = 48

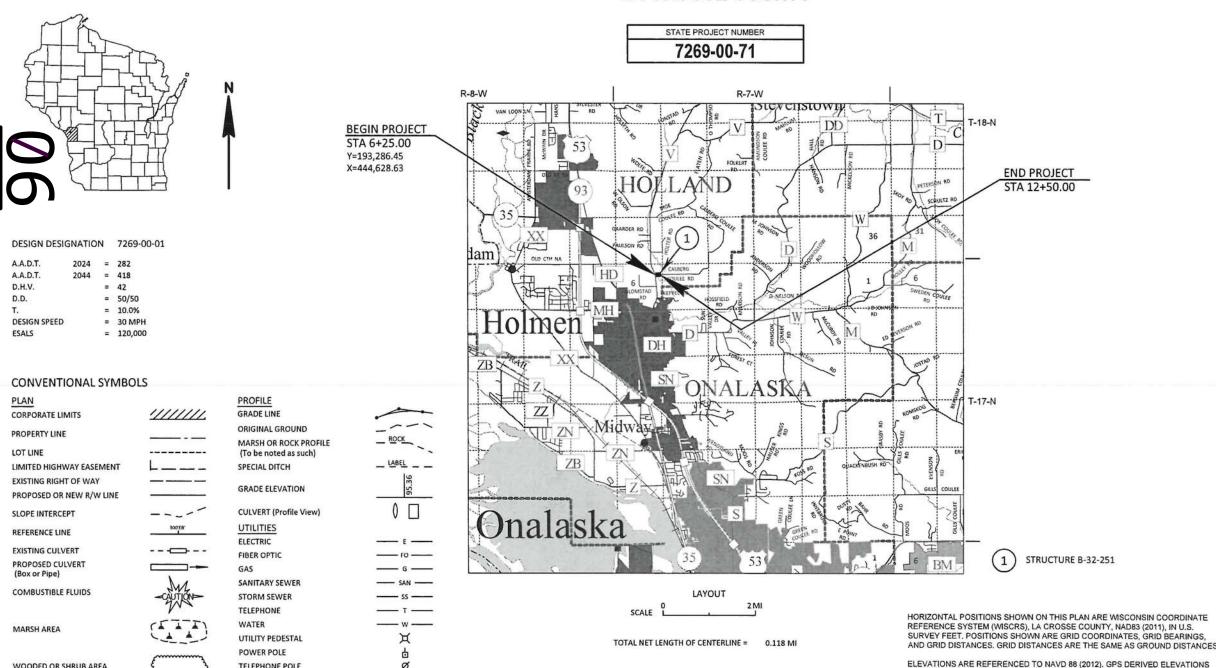
AUGUST 2024 ORDER OF SHEETS STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

PLAN OF PROPOSED IMPROVEMENT

T HOLLAND, CASBERG COULEE ROAD

LONG COULEE CREEK BRIDGE B-32-0251

LOCAL STREET LA CROSSE COUNTY



ACCEPTED FOR LA CROSSE COUNTY ORIGINAL PLANS PREPARED BY 6808 Odana Road, Suite 200 Madison, WI 53719-1137 Building a Better World 608.620.6199 main | 888.908.8166 fax for All of Us™ 800.732.4362 toll free | www.sehinc.com STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION SEH RANDY BYOM, PE RANDY BYOM, PE KYLE HEMP, PE Regional Supervisor PPROVED FOR THE DEPARTMENT

06/12/2024

FEDERAL PROJECT

WISC 2024406

CONTRACT

STATE PROJECT

7269-00-71

WOODED OR SHRUB AREA

TELEPHONE POLE

ARE BASED ON GEOID 12A.

DG

Χ

STANDARD ABBREVIATIONS

ABUT **ABUTMENT** HYD **HYDRANT** INSIDE DIAMETER AGGREGATE INVERT AGG INV APRON ENDWALL FOR CULVERT PIPE IRON PIPE ON PIN IΡ **AECPRC** REINFORCED CONCRETE APRON ENDWALL FOR CULVERT PIPE LHF LEFT-HAND FORWARD LENGTH OF CURVE **CORRUGATED STEEL** LF LINEAR FOOT ASPH **ASPHALTIC** LONG CHORD OF CURVE LC AVG **AVERAGE** LUMP SUM LS ADT AVERAGE DAILY TRAFFIC МН MANHOLE BF **BACK FACE** MOR MID POINT OF RADIUS BM BENCH MARK NC NORMAL CROWN RR BRIDGE NO NUMBER CE COMMERCIAL ENTRANCE OBLIT OBLITERATE C/L CENTER LINE PAVT **PAVEMENT** CENTRAL ANGLE OR DELTA PE PRIVATE ENTRANCE COB CENTER OF BARRIER PVRC CONC CONCRETE QOR QUARTER POINT OF RADIUS CPRC CULVERT PIPE REINFORCED CONCRETE R **RADIUS** CULVERT PIPE REINFORCED CONCRETE REQ'D REQUIRED CPRCHE HORIZONTAL ELLIPTICAL RES RESIDENCE OR RESIDENTIAL CR CREEK

RHF **CUBIC YARD** R/W RIGHT-OF-WAY **CURB AND GUTTER** C&G R RIVER DEGREE OF CURVE RDWY ROADWAY DHV DESIGN HOUR VOLUME R/L REFERENCE LINE DISCH DISCHARGE SALV SALVAGED DITCH GRADE SAN SANITARY SEWER DWY DRIVEWAY SOLIARE FEFT SF EAST GRID COORDINATE STEEL PLATE BEAM GUARD ENERGY SY SQUARE YARD EAT SDD STANDARD DETAIL DRAWINGS ABSORBING TERMINAL **END POINT OF RADIUS** STA STATION SS STORM SEWER

EOR **ELEVATION** EL ENT **FNTRANCE**

EQUIVALENT SINGLE AXLE LOADS ESALS EXC **EXCAVATION EXCAVATION BELOW SUBGRADE** EBS **EXIST EXISTING**

FC **FACE OF CURB** FF FACE TO FACE **FERT FERTILIZE** FE FIELD ENTRANCE FL FLOW LINE

FIBER OPTIC CWT HUNDREDWEIGHT

DNR AREA LIAISON:

WI DEPT OF NATURAL RESOURCES **DNR SERVICE CENTER** 3550 MORMON COULEE RD LA CROSSE, WI 54601 TELEPHONE: 608.785.9115 ATTENTION: KAREN KALVELAGE EMAIL: KAREN.KALVELAGE@WISCONSIN.GOV

LA CROSSE COUNTY:

LA CROSSE COUNTY HIGHWAY DEPARTMENT 301 CARLSON ROAD. WEST SALEM, WI 54669 TELEPHONE: 608.786.3810 ATTENTION: JOE LANGEBERG EMAIL: JLANGEBERG@LACROSSECOUNTY.ORG

WISDOT CONTACT:

WI DEPT OF TRANSPORTATION 3550 MORMON COULEE ROAD, LA CROSSE, WI 54601 TELEPHONE: 608.785.9966 ATTENTION: RANDY BYOM EMAIL: RANDY.BYOM@DOT.WI.GOV

DESIGN CONTACT:

SHORT ELLIOTT HENDRICKSON INC 6808 ODANA ROAD, SUITE 200 MADISON, WI 53719-1137 TELEPHONE: 608.620.6192 ATTENTION: CHRISTOPHER BLUM EMAIL: CBLUM@SEHINC.COM

UTILITY CONTACT LIST:

MIDWEST NATURAL GAS INC. PO BOX 429 LA CROSSE, WI 54602-0429 TELEPHONE: 608,781,1011 ATTENTION: NICK MAIFR

BRIGHTSPEED COMMUNICATIONS 1905 WARD AVENUE LA CROSSE, WI 54601 TELEPHONE: 608.780.1238 ATTENTION: BRIAN STELPLUGH EMAIL: BRIAN.STELPLUGH@BRIGHTSPEED.COM XCEL ENERGY 3215 COMMERCE STREET LA CROSSE, WI 54603 ATTENTION: JAKE ENDRES EMAIL: JACOB.T.ENDRES@XCELENERGY.COM

Dial or (800)242-8511 www.DiggersHotline.com

EMAIL: NICKM@MIDWESTNATURALGAS.COM

STORM SEWER PIPE REINFORCED

HWY: CASBERG COULEE RD

SUPERELEVATION RATE

TRUCKS (PERCENT OF)

VERTICAL CURVE NORTH GRID COORDINATE

CONCRETE

TOWN

TYPICAL

YARD

VARIARIF

TOP OF CURB

POINT OF VERTICAL REVERSE CURVE RIGHT-HAND FORWARD CY

RUNOFF COEFFICIENT TABLE

SSPRC

SE

TC

TYP

VAR

VC

ΥD

T OR TN

	THE NO LOCAL CARDON												
			A		В			С			D		
	SLOP	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPERANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
ROW CROPS	.08	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56	
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .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	OULDERS					.4060							

TOTAL PROJECT AREA = 1.5 ACRES

PROJECT NO:

TOTAL FROZECT AREA = 1.5 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.9 ACRES

7269-00-71

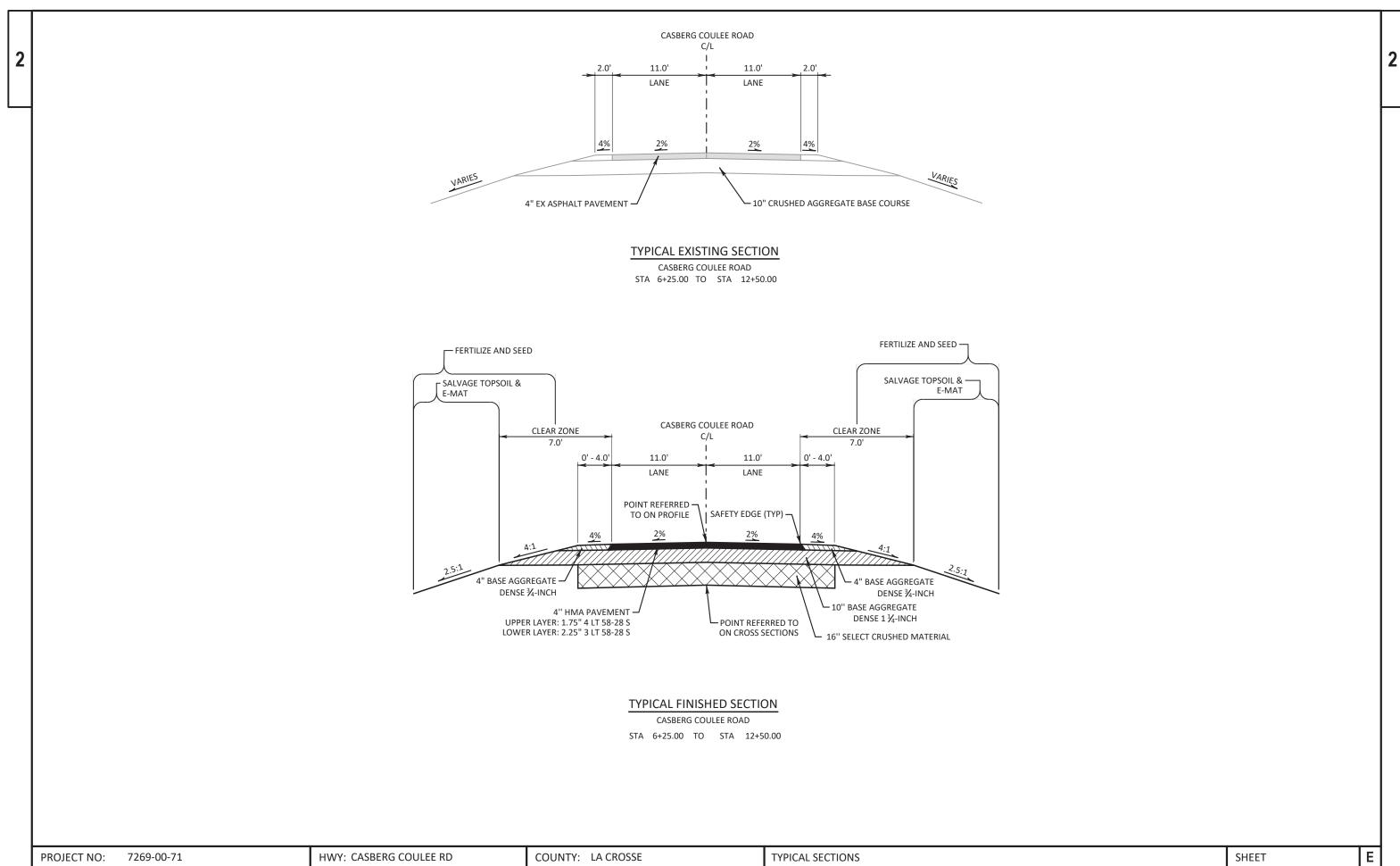
COUNTY: LA CROSSE

GENERAL NOTES

GENERAL NOTES:

- 1. NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.
- 2. 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.
- THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.
- 4. WETLANDS, WATERWAYS, AND OTHER ENVIRONMENTALLY SENSITIVE AREAS SHALL BE PROTECTED AT ALL TIMES. DO NOT STORE EQUIPMENT OR MATERIALS NEAR THESE SITES UNLESS APPROVED BY THE ENGINEER.
- 5. BROKEN CONCRETE CONTAINING RE-BAR SHALL NOT BE USED AS RIPRAP.
- CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. SALVAGED TOPSOIL SHALL BE REPLACED WITH 4-INCH TYPICAL DEPTH.
- 7. TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED
- THE EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- 9. ASPHALTIC AND CONCRETE SURFACES SHALL BE SAWCUT AT THE MATCH LINE AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.
- 10. DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE SALVAGED TOPSOILED, FERTILIZED AND
- 11. FERTILIZER SHALL NOT BE USED NEAR NAVIGABLE WATERWAYS OR WETLANDS.
- 12. A CONVERSION FACTOR OF 2.0 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BASE AGGREGATE DENSE.

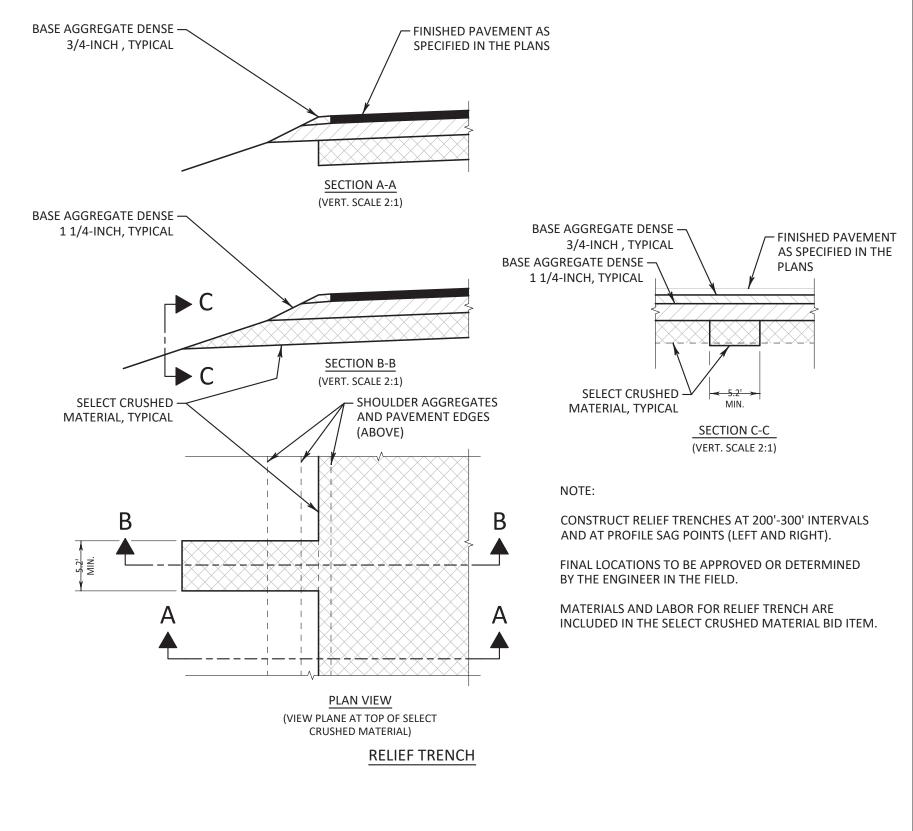
SHEET



PROJECT NO:

7269-00-71

BASE AGGREGATE DRIVEWAYS AND FIELD ENTERANCES (PE,CE, OR FE)



HWY: CASBERG COULEE RD

COUNTY: LA CROSSE PLOT DATE: 4/29/2024 3:17 PM

PLOT BY: SEH

CONSTRUCTION DETAILS

LAYOUT NAME: X01

PLOT SCALE: 1 IN:100 FT

Ε

SHEET

700	39-	\cap	7
//	า:-	いい	-/

					7269-00-71	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0205	Grubbing	STA	4.000	4.000	
0004	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. B-32-0095	EACH	1.000	1.000	
0006	204.0110	Removing Asphaltic Surface	SY	160.000	160.000	
8000	205.0100	Excavation Common	CY	2,060.000	2,060.000	
0010	206.1001	Excavation for Structures Bridges (structure) 01. B-32-0251	EACH	1.000	1.000	
0012	210.1500	Backfill Structure Type A	TON	930.000	930.000	
0014	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 7269-00-71	EACH	1.000	1.000	
0016	213.0100	Finishing Roadway (project) 01. 7269-00-71	EACH	1.000	1.000	
0018	305.0110	Base Aggregate Dense 3/4-Inch	TON	170.000	170.000	
0020	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,310.000	1,310.000	
0022	312.0110	Select Crushed Material	TON	1,640.000	1,640.000	
0024	455.0605	Tack Coat	GAL	90.000	90.000	
0026	460.2000	Incentive Density HMA Pavement	DOL	230.000	230.000	
0028	460.5223	HMA Pavement 3 LT 58-28 S	TON	200.000	200.000	
0030	460.5224	HMA Pavement 4 LT 58-28 S	TON	150.000	150.000	
0032	465.0125	Asphaltic Surface Temporary	TON	40.000	40.000	
0034	502.0100	Concrete Masonry Bridges	CY	244.000	244.000	
0036	502.3200	Protective Surface Treatment	SY	275.000	275.000	
0038	505.0400	Bar Steel Reinforcement HS Structures	LB	5,500.000	5,500.000	
0040	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	31,390.000	31,390.000	
0042	513.4061	Railing Tubular Type M	LF	106.000	106.000	
0044	516.0500	Rubberized Membrane Waterproofing	SY	12.000	12.000	
0046	550.2104	Piling CIP Concrete 10 3/4 X 0.25-Inch	LF	1,530.000	1,530.000	
0048	606.0300	Riprap Heavy	CY	210.000	210.000	
0050	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	162.000	162.000	
0052	618.0100	Maintenance and Repair of Haul Roads (project) 01. 7269-00-71	EACH	1.000	1.000	
0054	619.1000	Mobilization	EACH	1.000	1.000	
0056	624.0100	Water	MGAL	30.000	30.000	
0058	625.0500	Salvaged Topsoil	SY	2,030.000	2,030.000	
0060	628.1504	Silt Fence	LF	1,250.000	1,250.000	
0062	628.1520	Silt Fence Maintenance	LF	1,250.000	1,250.000	
0064	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000	
0066	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000	
0068	628.2027	Erosion Mat Class II Type C	SY	1,670.000	1,670.000	
0070	628.6005	Turbidity Barriers	SY	230.000	230.000	
0072	629.0210	Fertilizer Type B	CWT	2.000	2.000	
0074	630.0120	Seeding Mixture No. 20	LB	57.000	57.000	
0076	630.0200	Seeding Temporary	LB	57.000	57.000	
0078	630.0500	Seed Water	MGAL	24.000	24.000	
0800	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0082	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0084	638.2602	Removing Signs Type II	EACH	4.000	4.000	
0086	638.3000	Removing Small Sign Supports	EACH	4.000	4.000	
8800	642.5001	Field Office Type B	EACH	1.000	1.000	
0090	643.0420	Traffic Control Barricades Type III	DAY	606.000	606.000	
0092	643.0705	Traffic Control Warning Lights Type A	DAY	762.000	762.000	
0094	643.0900	Traffic Control Signs	DAY	420.000	420.000	
0096	643.1050	Traffic Control Signs PCMS	DAY	56.000	56.000	
0098	643.5000	Traffic Control	EACH	1.000	1.000	

0120

0122

0124

ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR

ASP.1T0G On-the-Job Training Graduate at \$5.00/HR

SPV.0090 Special 01. Flashing Stainless Steel

Estimate Of Quantities

Page 2

Line	ltom	Itom Description	Unit	Total	Otv
Lille	Item	Item Description	Offic	TOTAL	Qty
0100	645.0111	Geotextile Type DF Schedule A	SY	114.000	114.000
0102	645.0120	Geotextile Type HR	SY	370.000	370.000
0104	646.1020	Marking Line Epoxy 4-Inch	LF	625.000	625.000
0106	650.4500	Construction Staking Subgrade	LF	575.000	575.000
0108	650.5000	Construction Staking Base	LF	575.000	575.000
0110	650.6501	Construction Staking Structure Layout (structure) 01. B-32-0251	EACH	1.000	1.000
0112	650.9911	Construction Staking Supplemental Control (project) 01. 7269-00-71	EACH	1.000	1.000
0114	650.9920	Construction Staking Slope Stakes	LF	575.000	575.000
0116	690.0150	Sawing Asphalt	LF	52.000	52.000
0118	715.0502	Incentive Strength Concrete Structures	DOL	1,464.000	1,464.000

1,200.000

600.000

102.000

HRS

HRS LF

7269-00-71

1,200.000

600.000

102.000

			EARTHWORK S	SUMMARY (726	9-00-71)			
CATEGORY (0010							
SUBSTAGE	FROM/TO STATION		5.0100 EXCAVATION (1)	SALVAGED / UNUSABLE PAVEMENT MATERIAL (3)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (6)	MASS ORDINATE +/- (7)
		CUT (2)	EBS EXCAVATION				FACTOR 1.30	
STAGE 1	8+20 - 9+31	300	0	0	300	43	56	244
	FIELD ENTRANCE	180	0	0	180	20	26	154
	9+31 - 12+50	1,030						
CATE	GORY 0010 SUBTOTALS	1,510	0	0	480	63	82	398
		·						
CATEGORY (0030							
SUBSTAGE	FROM/TO STATION		5.0100 EXCAVATION (1)	SALVAGED / UNUSABLE PAVEMENT MATERIAL (3)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (6)	MASS ORDINATE +/- (7)
		CUT (2)	EBS EXCAVATION				FACTOR 1.30	
STAGE 1	6+25 - 8+20	550	0	0	550	88	114	550
CATE	GORY 0030 SUBTOTALS	550	0	0	550	88	114	550
	PROJECT TOTALS	2,060	0	0	1,030	151	196	948
	TOTAL COMMON EXC	2	2,060					

- (1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
- (2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- (3) SALVAGED/UNUSABLE PAVEMENT MATERIAL
- (5) AVAILABLE MATERIAL = CUT SALVAGED/UNUSUABLE PAVEMENT MATERIAL
- (6) EXPANDED FILL FACTOR = 1.30

DEPENDING ON SELECTIONS:

(7) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

MISCELLANEOUS QUANTITIES PROJECT NO: 7269-00-71 HWY: CASBERG COULEE RD COUNTY: LA CROSSE SHEET

CATEGORY 0010	8+00 9+00	201.0205 STA 1 1	<u>PAVEME</u> CATEGORY	DATION FOR ASPHALTIC NT (7269-00-71) 211.0101 EACH		STATION TO	STATION	<u>BASE A</u> LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	312.0110 SELECT CRUSHED MATERIAL TON	624.0100 WATER MGAL
	10+00 11+00 PROJECT TOTAL	1 1 4	0010 PROJE	ECT TOTAL 1	0010	8+20 - 10+25 - 8+95 -	9+75 12+50 9+60	CL CL FIELD ENTRANCE	40 60 20	350 510 -	440 640 -	10 10 -
REI	MOVING ASPHALTIC SU	<u>JRFACE</u> 204.0110	<u>FINISH</u>	IING ROADWAY				GORY 0010 SUBTOTALS	120	860	1,080	20
CATEGORY 0010	STAGE STATION 2 9+50 - 9+7		CATEGORY 0010	213.0100 EACH 1		6+25 -	8+20 CATE	CL GORY 0030 SUBTOTALS	50	450 450	560	10
	10+25 - 10+ PROJECT TOTAL	160	PROJE	ECT TOTAL 1				PROJECT TOTAL	170	1,310	1,640	30
CATEGORY	STATION - STATION	LOCATION	455.0605 TACK COAT GAL	* 460.5223 HMA PAVEMENT 3 LT 58-28 S TON	* 460.5224 HMA PAVEMENT 4 LT 58-28 S TON	* 465.0125 ASPHALTIC SURFACE TEMPORARY TON		REMARKS			CE AND REPAIR OF DS (7269-00-71) 618.010 EACH 1	0
0010	8+20 - 9+75 10+25 - 12+50	CL CL	20 30	50 80	40 60	20 20		MP SURFACE DURING WIN MP SURFACE DURING WIN				
0030	6+25 - 8+20	CL ATEGORY 0010 SUBTOTA	40	130 70 70	100 50 50	40 - 0				<u>MOB</u>	<u>SILIZATION</u>	
HMA PAVEM	REQUIRED PRIOR TO PAVII	PROJECT TOTA NG UPPER SURFACE. CAL ONS BASED ON UNIT WEI	AL 90 CULATIONS BASED GHT OF 112 LB/SY/	200 ON APPLICATION RATE OF (150 0.05 GAL/SY.	40	FTER BRIDG	E DECK.		CATEGORY LOCA 0010 CASBERG 0030 CASBERG PROJECT	COULEE RD 0.9 COULEE RD 0.1	1

			TOPSOIL, MULO	CHING AND SEED								<u>MOBIL</u>	IZATIONS EROS	I <mark>ION CONTROL</mark> 628.1	910
			625.0500	620 0210	630.0120	620 0200	,	520 0500					628.190)5 MOBILIZA	ATIONS
			625.0500	629.0210	SEEDING	630.0200		530.0500					MOBILIZAT	IONS EMERG	ENCY
			SALVAGED	FERTILIZER	MIXTURE	TEMPORARY		SEED					EROSIO	N EROS	ION
			TOPSOIL	TYPE B	NO. 20	SEEDING		WATER					CONTRO		
TEGORY	STATION - STATION	LOCATION	SY	CWT	LB	LB		MGAL				CATEGORY	EACH	EAC	
												0010	4	3	
0010	8+20 - 9+75	LT/RT	380	0.3	11	11		5			DR(DJECT TOTAL		3	
	10+25-12+50	LT/RT	600	0.4	17	17		7			1 111	DIECT TOTAL	.5 -	J	
	UNDISTRIBUTED		101	0.4	3	3		1							
	CATEGO	PRY 0010 SUBTOTAL	1081	1.1	31	31		13							
0030	6+25 - 8+20	LT/RT	860	0.5	24	24		10					FIELD OFFICE		
	UNDISTRIBUTED		89	0.4	2	2		1				C.	ATEGORY	642.5001 EACH	
	CATEGO	PRY 0030 SUBTOTAL	949	0.9	26	26		11					0010	1	
												PR	OJECT TOTAL	1	
	PR	OJECT TOTAL	2,030	2	57	57		24							
										<u>PE</u>	RMANENT	SIGNING		634.0612	637.2230
		EROSION CONTRO	<u>L ITEMS</u>											POSTS WOOD	SIGNS TYPE
				628.2027					SIGN	S	IZE		4	X6-INCH X 12-FT	REFLECTIVE
			628.1520	EROSION MAT	628.6005	CATEGORY	STATION	LOCATION	N CODE	(INCH) (INCH)	MESS	AGE	EACH	SF
		628.1504	SILT FENCE	CLASS II	TURBIDITY	0010									
		SILT FENCE	MAINTENANCE	TYPE C	BARRIERS		9+72	RT	W5-52-R	12	36	CLEARANCE	E STRIPER	1	3
TEGORY	STATION - STATION	LF	LF	SY	SY		9+78	LT	W5-52-L	12	36	CLEARANCE	E STRIPER	1	3
							10+22	RT	W5-52-L	12	36	CLEARANCE	E STRIPER	1	3
0010	8+20 - 9+75	278	278	294	90		10+28	LT	W5-52-R	12	36	CLEARANCE	E STRIPER	1	3
	10+25 - 12+50	435	435	472	110							PROJECT	TOTAL 0010	4	12
	UNDISTRIBUTED	82	82	84	30										
	CATEGORY 0010 SUBTOTAL	 S 795	795	850	230						REMOVING	<u>S SIGNS</u>	620.2602	620,200	
	2221.11 0010 00D10171L		, 55										638.2602	REMOVING	
0030	6+25 - 8+20	401	401	735	-								REMOVING SI	GNS SMALL SIGI	
5550	UNDISTRIBUTED	54	54	733 85	- -								TYPE II	SUPPORTS	
	ONDISTINIDUTED	54	J4	OJ.	-	_	CATEGORY	STATION	locatic	N	MES	SAGE	EACH	EACH	
	CATECORY 0020 CURTOTAL	C 4FF	455	020			0010								
	CATEGORY 0030 SUBTOTAL	S 455	455	820	0			9+72	RT		CLEARAN	CE STRIPER	1	1	
								9+78	LT		CLEARAN	CE STRIPER	1	1	
	PROJECT TOTALS	1,250	1,250	1,670	230			10+22	RT		CLEARAN	CE STRIPER	1	1	
						_		10+28	LT		CLEARAN	CE STRIPER	1	1	
											PROJEC	T TOTAL 001	.0 4	4	
						1									

X:\KO\L\LCCHD\175869\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\DS- 175869\SHEETS\SEC 03 MISC QTYS\030201-MQ (MISC QTYS).DWG LAYOUT NAME - 03

PLOT BY: JASMINE MOLDOVAN

PLOT SCALE : 1" = 1'

WISDOT/CADDS SHEET 42

TRAFFIC CONTROL ITEMS

				TRAFFIC CON	INUL	I I E IVI 3					
				643.0420		643.0705		643.0900		643.1050	
		APPROX. SERVICE		TRAFFIC CONTROL BARRICADES TYPE III		TRAFFIC CONTROL WARNING LIGHTS TYPE A		TRAFFIC CONTROL SIGNS		TRAFFIC CONTROL SIGNS PCMS	
CATEGORY	STAGE	PERIOD DAYS	QTY.	DAY	QTY.	DAY	QTY.	DAY	QTY.	DAY	
0010	1	30	16	480	20	600	11	330	2	28	
0010	2	9	14	126	18	162	10	90	2	28	•
	PRO	OJECT TOTAL 0010		606		762		420		56	_

PAVEMENT MARKING

646.1020 MARKING LINE EPOXY 4-INCH

(DOUBLE YELLOW)

		(DOODLE TELLOW)
CATEGORY	STATION	LF
0010	8+20 - 12+50	430
	CATEGORY 0010 SUBTOTAL	430
0030	6+25 - 8+20	195
	CATEGORY 0030 SUBTOTAL	195
	PROJECT TOTAL	625

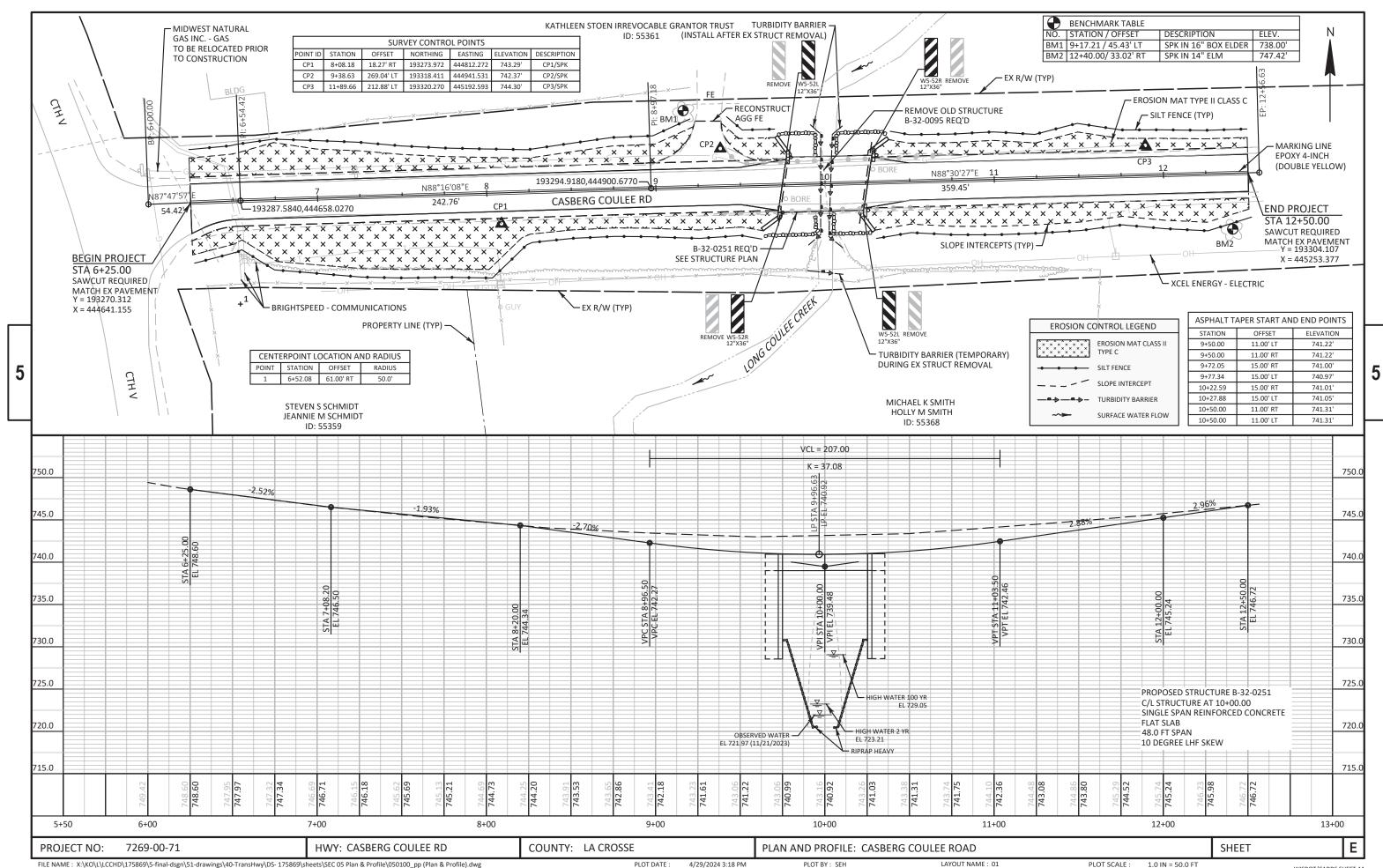
CONSTRUCTION STAKING

CATEGORY	STATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.6501 STRUCTURE LAYOUT (B-32-0251) EACH	650.9911 SUPPLEMENTAL CONTROL (7269-00-71) EACH	650.9920 SLOPE STAKES LF
0010	8+20 - 9+75	155	155	1	1	155
	10+25 - 12+50	225	225	-	-	225
	CATEGORY 0010 SUBTOTAL	380	380	1	1	380
0030	6+25 - 8+20	195	195	-	-	195
	CATEGORY 0030 SUBTOTAL	195	195	0	0	195
	PROJECT TOTAL	575	575	1	1	575

<u>S/</u>	<u>۷۷</u>	<u>V I</u>	N	<u>G</u>

		690.0150
		ASPHALT
CATEGORY	STATION	LF
0010	12+50	22
	CATEGORY 0010 SUBTOTAL	22
0030	6+25	30
	CATEGORY 0030 SUBTOTAL	30
	PROJECT TOTAL	52

HWY: CASBERG COULEE RD COUNTY: LA CROSSE MISCELLANEOUS QUANTITIES SHEET Ε PROJECT NO: 7269-00-71



Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
13C19-03	HMA LONGITUDINAL JOINTS
14B29-01	SAFETY EDGE
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15С02-09В	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

6

TYPICAL APPLICATION OF SILT FENCE

6

b

Ō

Ш





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.

- \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 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

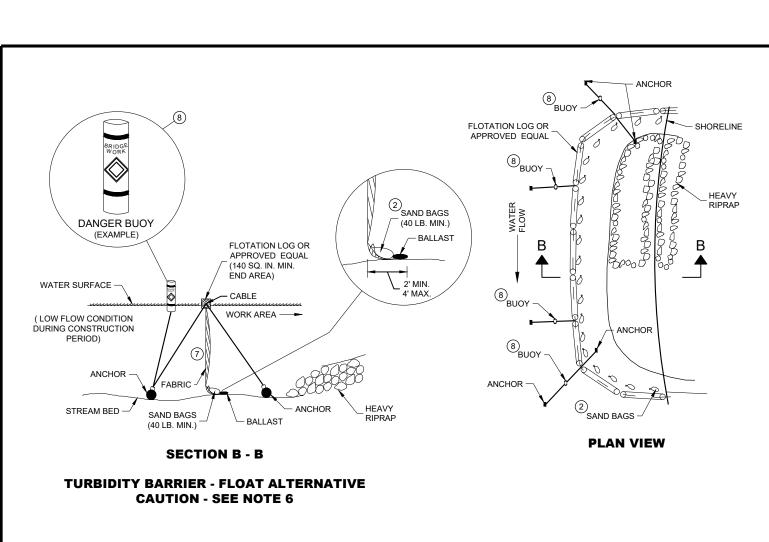
(WHEN REQUIRED BY THE ENGINEER)

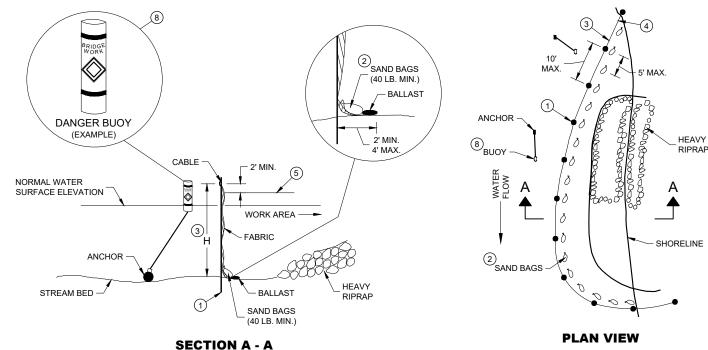


6

ထ

D.D. 8 E 9-6





TURBIDITY BARRIER - STANDARD POST INSTALLATION

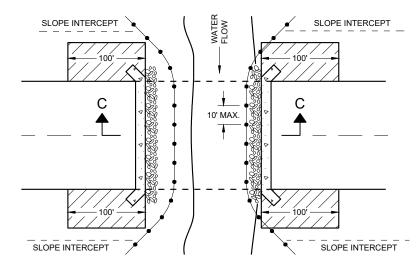
TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

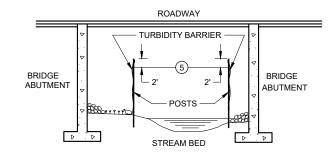
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

- 1 DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.
- (2) 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 THE UPSTREAM END.
- (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

 ∞

6/4/02 /S/ Beth Cannestra

DATE CHIEF ROADWAY DEVELOPMENT
ENGINEER

APPROVED





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

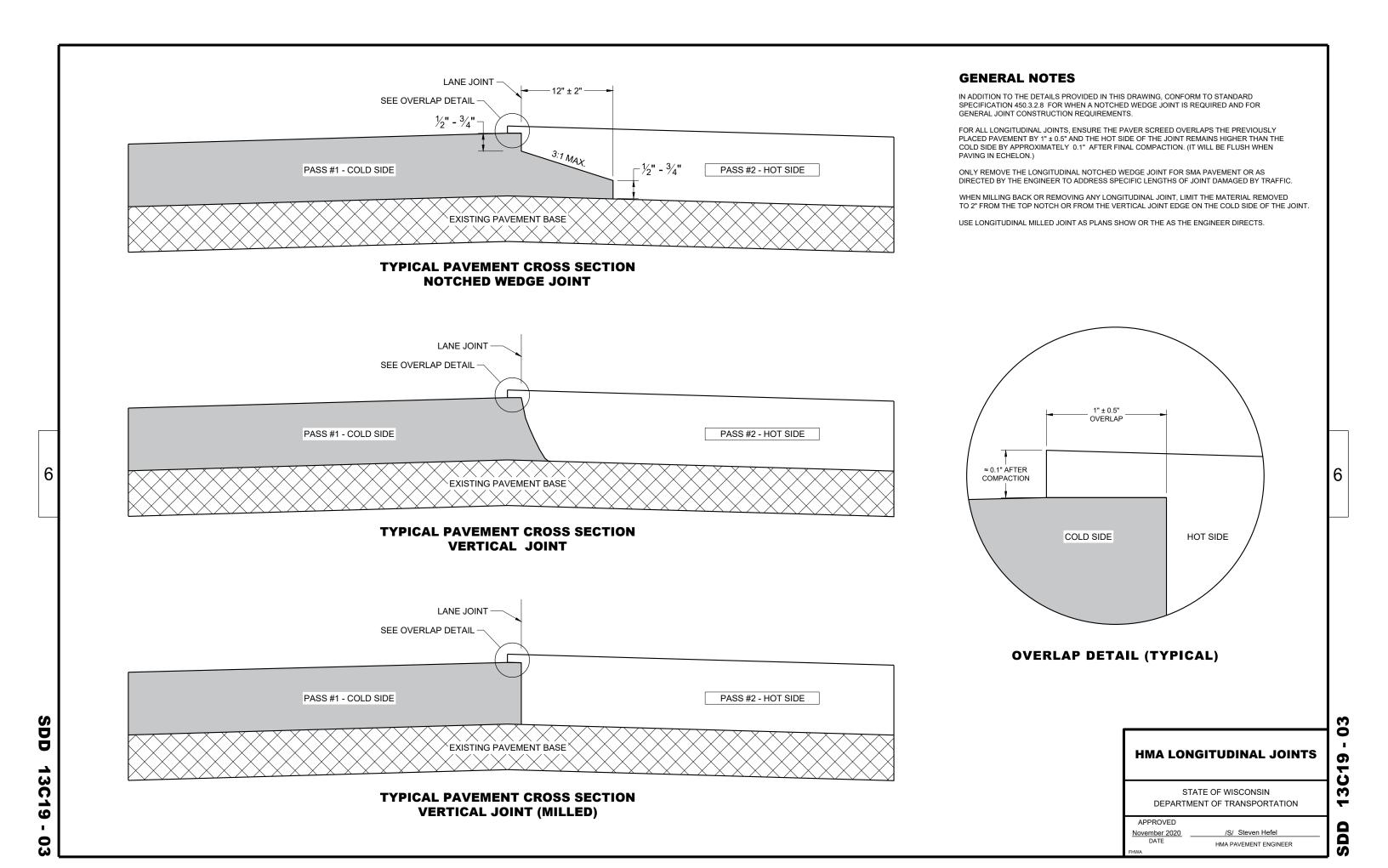
APPROVED

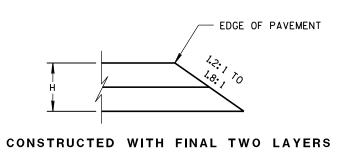
3/26/IO /S/ Scot Becker

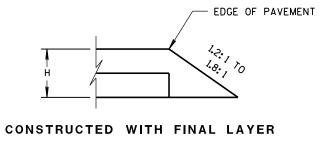
DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

.D.D. 12 A

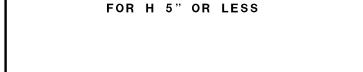
3-10

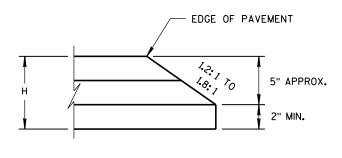






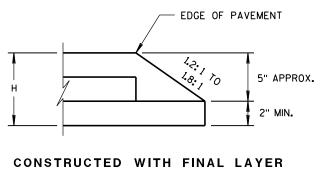
FOR H 5" OR LESS



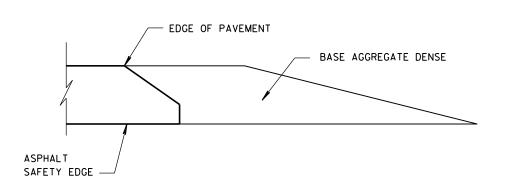


CONSTRUCTED WITH FINAL TWO LAYERS

FOR H GREATER THAN 5"



FOR H GREATER THAN 5"



FINISHED SHOULDER AGGREGATE PLACEMENT

HMA PAVEMENT AND HMA OVERLAYS

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

 $\mathbf{\omega}$

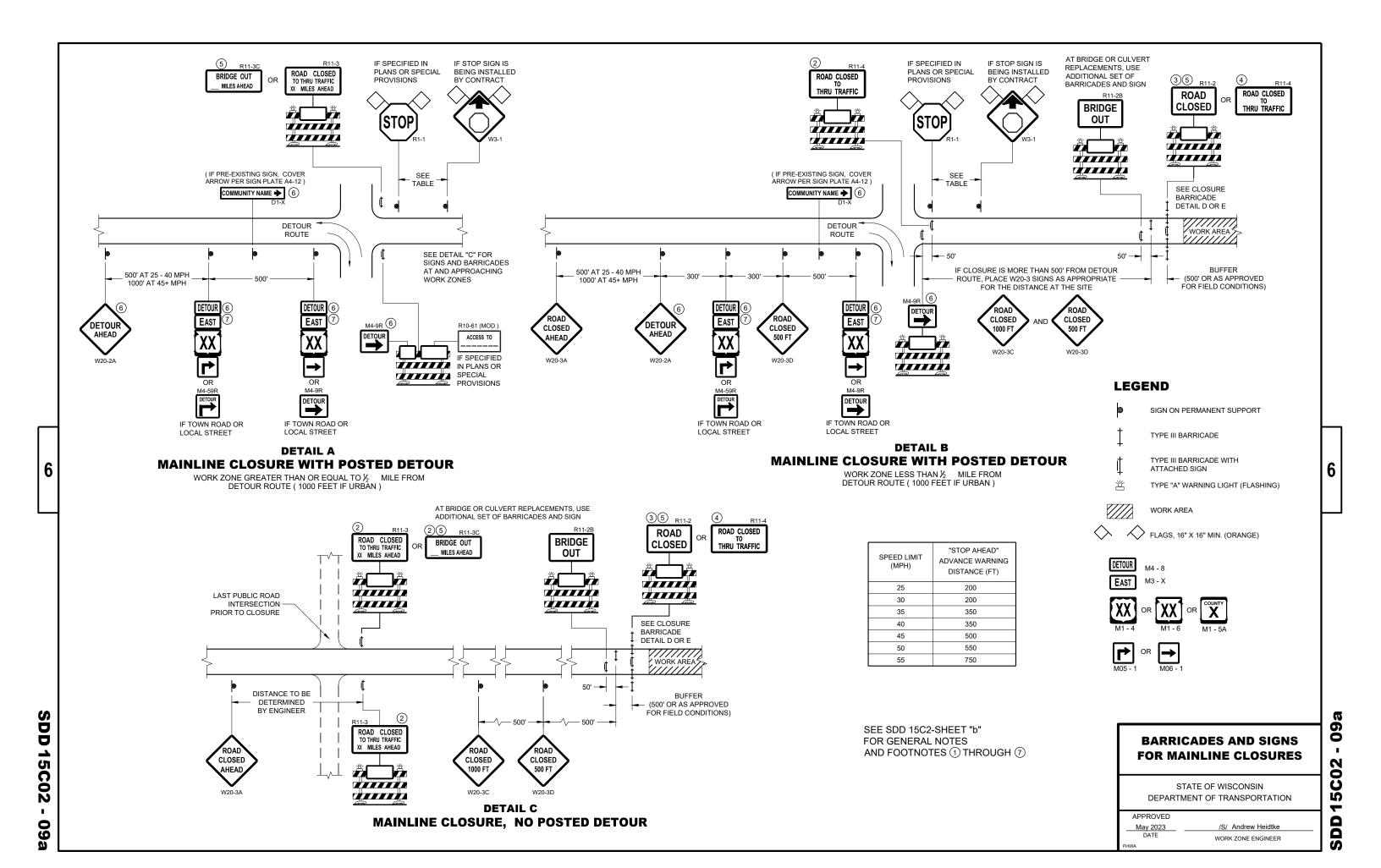
Ω

Ω

APPROVED

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

6



TWO- WAY

TYPE "A" WARNING

LIGHTS REQUIRED

12" MAX. →

TWO-WAY TYPE "A" WARNING LIGHTS REQUIRED ROAD CLOSED TO THRU TRAFFIC ROAD CLOSED TO THRU TRAFFIC ROAD CLOSED TO THRU TRAFFIC

BRIDGE

OUT

ROAD

CLOSED

RAMP

CLOSED

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

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

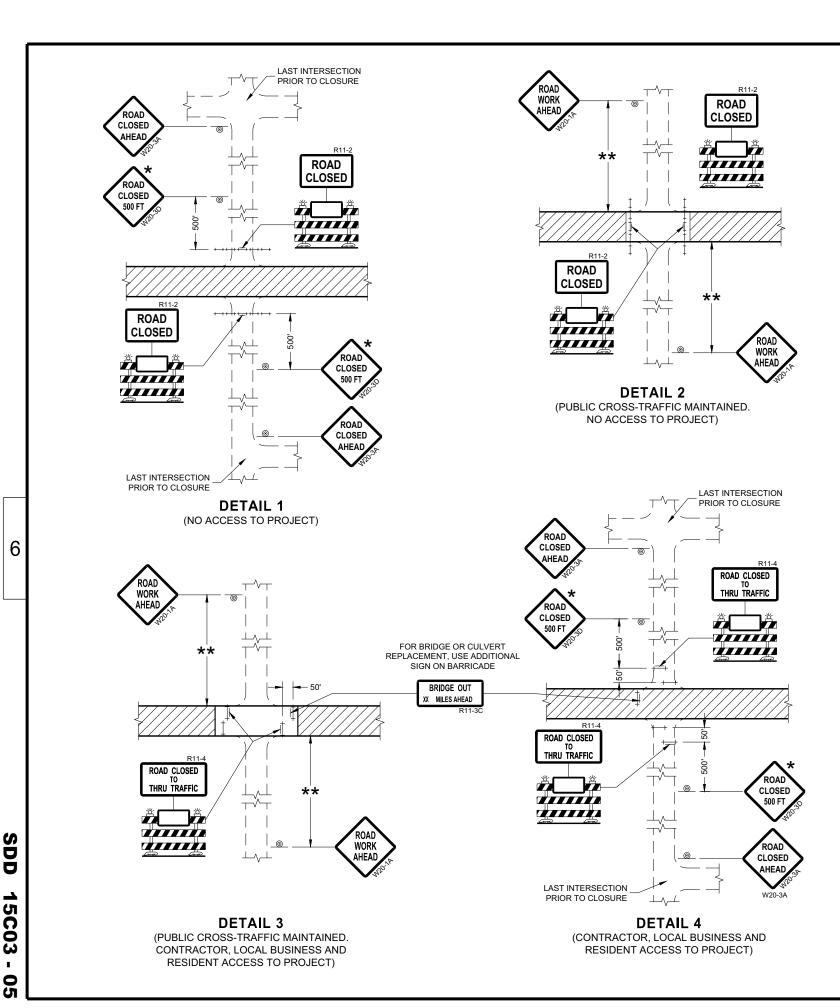
APPROVED May 2023

May 2023 /S/ Andrew Heidtke

DATE WORK ZONE ENGINEER

015C02 -

Ò



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS

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 (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

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

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN 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, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW: R11-2 SHALL BE 48" X 30". R11-4 AND R11-3 SHALL BE 60" X 30".

- ★ OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.
- ** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

LEGEND

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

TYPE "A" WARNING LIGHT (FLASHING)

WORK AREA

BARRICADES AND SIGNS FOR **SIDEROAD CLOSURES**

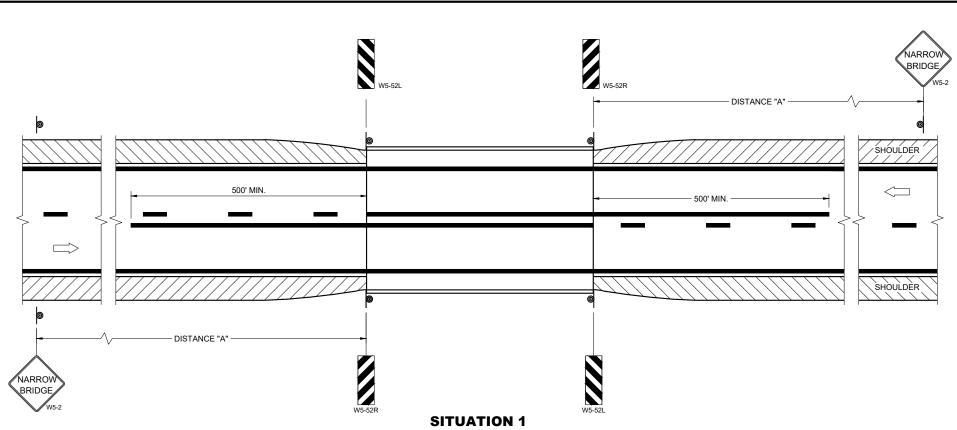
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED July 2018 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER ŭ

S



SDD 15C06-12



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

W5-52L W5-52L W5-52L W5-52L W5-52L

SITUATION 2

SDD

15C06-12

WARRANTING CRITERIA: 1. BRIDGE WIDTH IS AT LEAST 24 FEET <u>AND</u> 2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET

GENERAL NOTES

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

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

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

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

1) OMIT ON ONE-WAY TRAVELED WAYS.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

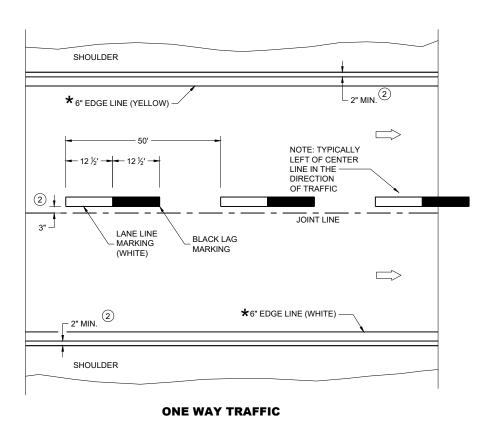
DISTANCE TABLE

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

SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2023	/S/ Jeannie Silver
DATE	Statewide Pavement Marking Engineer



PERMANENT PAVEMENT MARKING

GENERAL NOTES

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

- 1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- (2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

PERMANENT LONGITUDINAL **PAVEMENT MARKINGS**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

May 2023 DATE

/S/ Jeannie Silver Statewide Pavement Marking Engineer

6

SDD

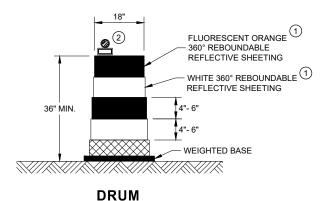
C08-23 Ŋ SD

15C08-23a

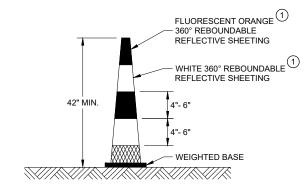
SDD 15C11

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.

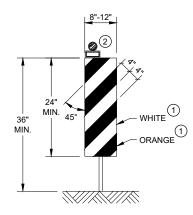


BALLAST WIDTHS RANGE FROM 24"-36"



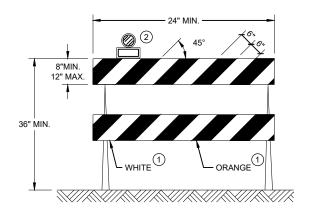
42" CONE

DO NOT USE IN TAPERS ½ SPACING OF DRUMS BALLAST WIDTHS RANGE FROM 14"-20"



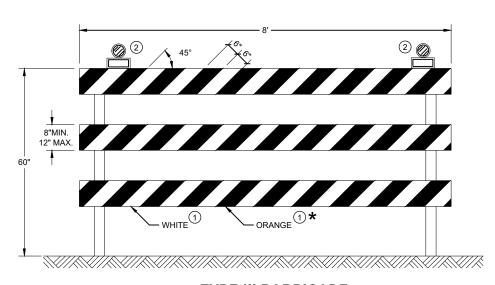
VERTICAL PANEL

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 50

APPROVED	
November 2022	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	





RURAL AREA (See Note 2)



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 sign plate.

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

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

2' Min - 4' Max (See Note 5)



White Edgeline
Location

Outside Edge
of Gravel

POST EMBEDMENT DEPTH

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

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.

* 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.

PLOT BY : mscj9h

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 12/6/23 PLATE NO. _A4-3.23

Ε

PROJECT NO: HWY: COUNTY: SHEET NO:



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



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

WISDOT/CADDS SHEET 42





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 REQUIR	RED)
L	E
Greater than 108" to 144"	12''

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" (±) 3" or 6'-3" (±) 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) 3'' or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 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" (±) 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.
- $\times \times \times$ See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE 12/6/23

PLATE NO. <u>A4-4.16</u>

Ε

CHEET NO.

SHEET NO:

FILE NAME : C:\CAEfiles\Project\tr_stdplate\A44.dgn

PROJECT NO:

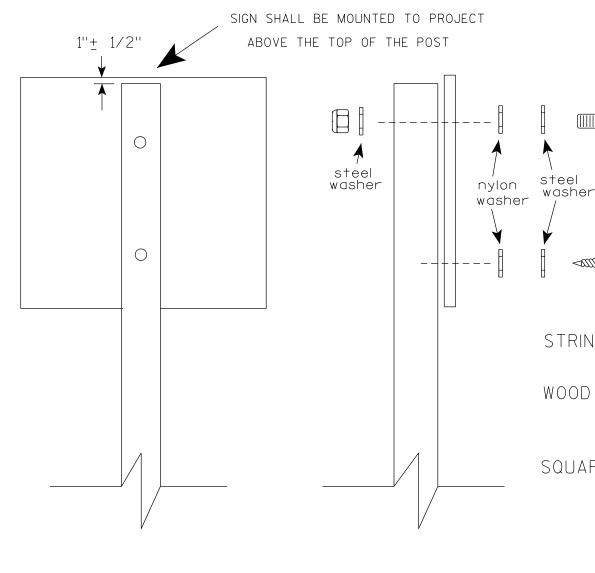
COUNTY:

PLOT DATE: 6-DEC 2023 11:31

PLOT NAME :

PLOT BY : mscj9h

PLOT SCALE: \$\$.....plotscale.....\$\$ 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

APPROVED

DATE 4/1/2020

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

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

WISCONSIN DEPT OF TRANSPORTATION

Matther ≠or State Traffic Engineer

SHEET NO:



PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

For State Traffic Engineer



BANDING



SINGLE SIGN





WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

1-1/4" O.D. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

GENERAL NOTES

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be $\frac{3}{4}$ " in width and 0.025" thickness.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

State Traffic Engineer

COUNTY:

PLOT DATE: 10-JUN 2019 4:10

PLOT NAME :

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn

PROJECT NO:

PLOT BY: mscj9h

CHANNEL

31/2"

VIEW FROM TOP

GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, $\frac{3}{4}$ " WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS.

 SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X $1/_{16}$ "
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

 \rightarrow LAG BOLTS SHALL BE $\frac{3}{8}$ " X $\frac{2}{2}$ "

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED //

DATE 4/19/2022 PLATE NO. _A5-10.3

ATE 4/19/2022 PLATE NO. _

SHEET NO:

SIGN

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A510.dgn

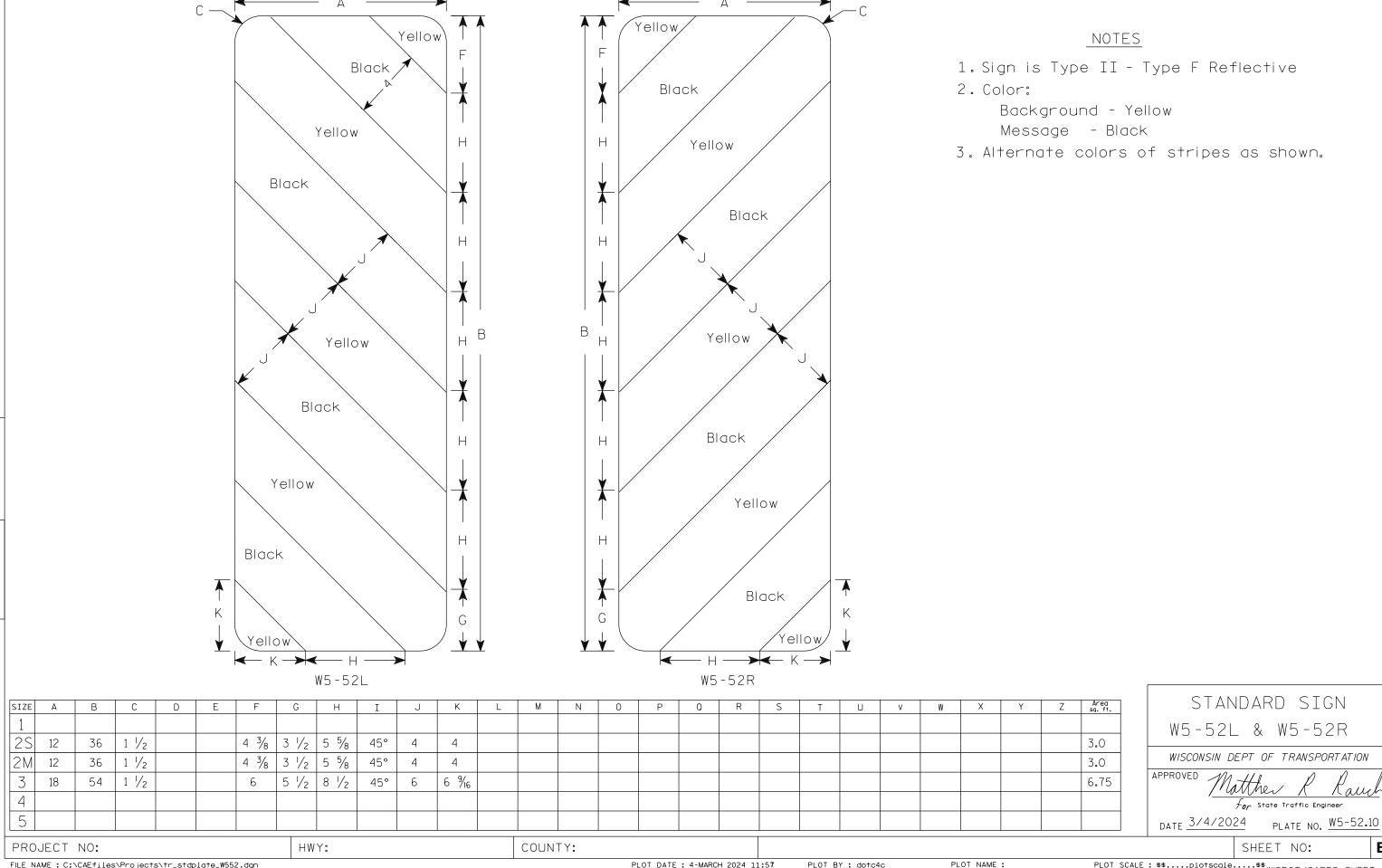
PROJECT NO:

PLOT DATE: 19-APRIL 2022 11:55

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

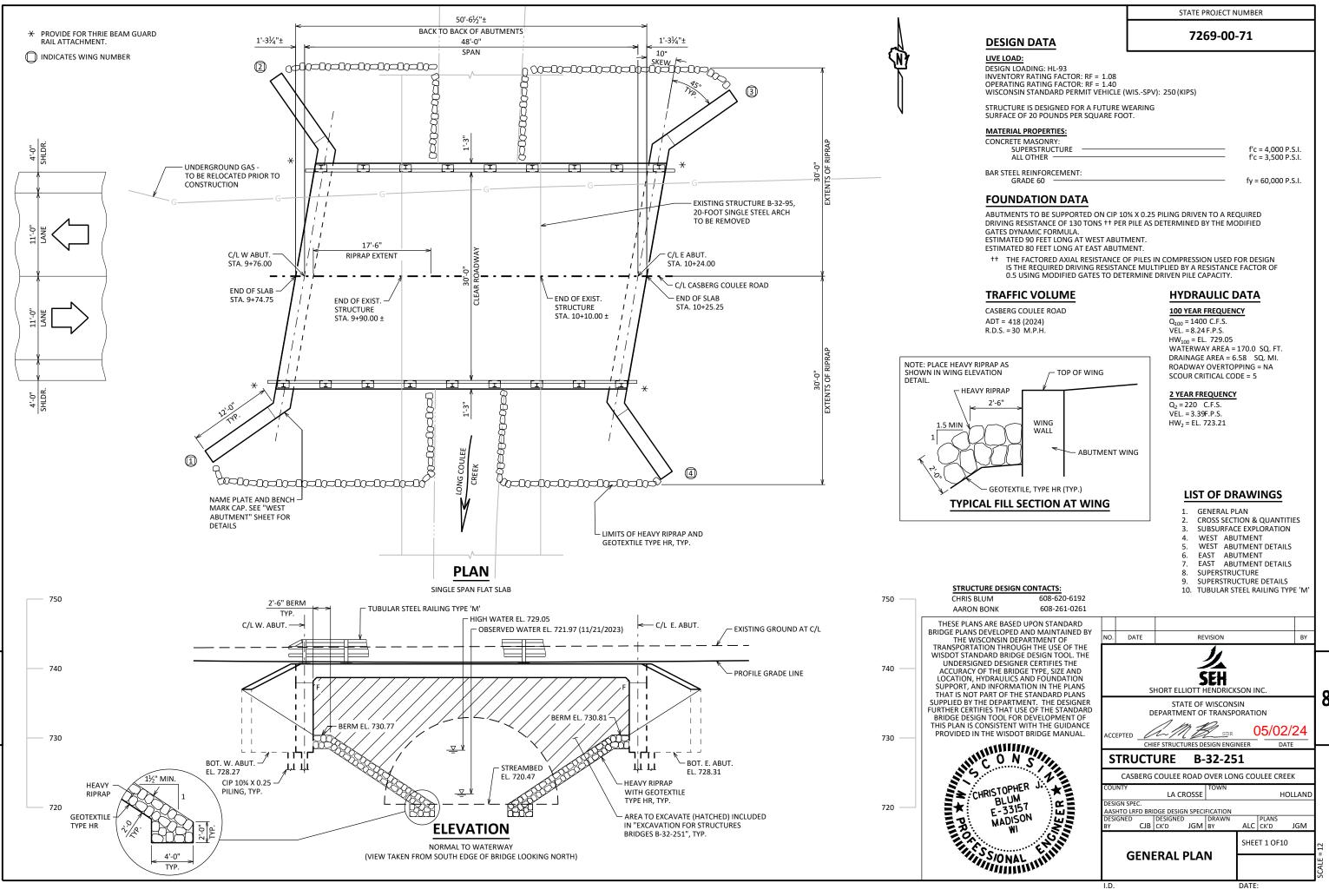


FILE NAME : C:\CAEfiles\Projects\tr_stdplate_W552.dgn

PLOT DATE: 4-MARCH 2024 11:57

PLOT BY : dotc4c

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



GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

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-32-251" SHALL BE THE EXISTING

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

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.

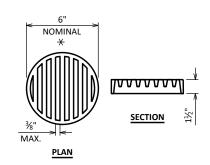
AT ABUTMENTS, CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

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

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.
BM1	9+17.21 / 45.43' LT	SPK IN 16" BOX ELDER	738.00'
BM2	12+40.00/ 33.02' RT	SPK IN 14" ELM	747.42'

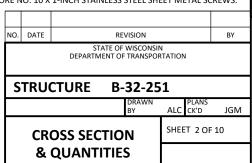


RODENT SHIELD DETAIL

★ 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 UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIFLD 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.



32'-6" OUT TO OUT OF SUPERSTRUCTURE 1'-3" 1'-3" 30'-0" CLEAR BETWEEN BARRIERS 4'-0" 11'-0" 11'-0" 4'-0" SHLD. LANE LANE SHLD. C/L CASBERG COULEE ROAD TUBULAR STEEL RAILING TYPE 'M' POINT REFERRED TO ON -(TYP.) PROFILE GRADE LINE - FLASHING STAINLESS STEEL (TYP.) TOP OF BERM **CROSS SECTION THRU ROADWAY** - BOTTOM OF ABUTMENT TOP OF PAVEMENT LOOKING UPSTATION (PILING NOT SHOWN FOR CLARITY) VCL = 207'-0"

K=37.08

PROFILE GRADE LINE

PLAN SECTION B-B

SECTION A-A

ABUTMENT BACKFILL DIAGRAM

- = ABUTMENT BODY LENGTH AT BACKFACE (FT)
- = AVERAGE ABUTMENT FILL HEIGHT (FT) = WING 1 HEIGHT AT TIP (FT)

ELEVATION

- = WING 2 HEIGHT AT TIP (FT)
- = WING LENGTH (FT)
- = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
- = (L)(3.0')(H) + (L)(0.5)(1.5H)(H) + (3')(0.5)(H1+H2+H+H)(W)
- $V_{CY} = V_{CF}(EF)/27$

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER	WEST ABUT.	EAST ABUT.	TOTALS
203.0260	REMOVING STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS B-32-95	EACH				1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-32-251	EACH				1
210.1500	BACKFILL STRUCTURE TYPE A	TON		465	465	930
502.0100	CONCRETE MASONRY BRIDGES	CY	124	60	60	244
502.3200	PROTECTIVE SURFACE TREATMENT	SY	215	30	30	275
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB		2,750	2,750	5,500
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	27,350	2,020	2,020	31,390
513.4061	RAILING TUBULAR TYPE M	LF	106			106
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		6	6	12
550.2104 PILING CIP CONCRETE 10 3/4 X 0.25-INCH		LF		810	720	1,530
606.0300 RIPRAP HEAVY		CY		105	105	210
612.0406 PIPE UNDERDRAIN WRAPPED 6-INCH		LF		81	81	162
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY		57	57	114
645.0120	GEOTEXTILE TYPE HR	SY		185	185	370
SPV.0090.01	FLASHING STAINLESS STEEL	LF	102			102
	NON-BID ITEMS					
	FILLER	SIZE				1/2", 3/4"
	NAMEPLATE	EACH	1			1
	BENCHMARK	EACH	1			1

THIS SHEET WAS CREATED BY THE WISDOT BUREAU OF STRUCTURES STANDARD BRIDGE DESIGN TOOL VERSION 1.0.0.0

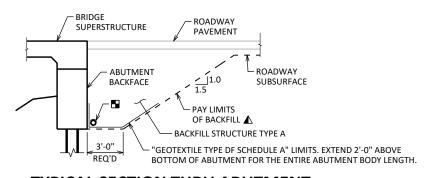
PROTECTIVE SURFACE TREATMENT DETAILS

STA.

C/L CASBERG COULEE RD

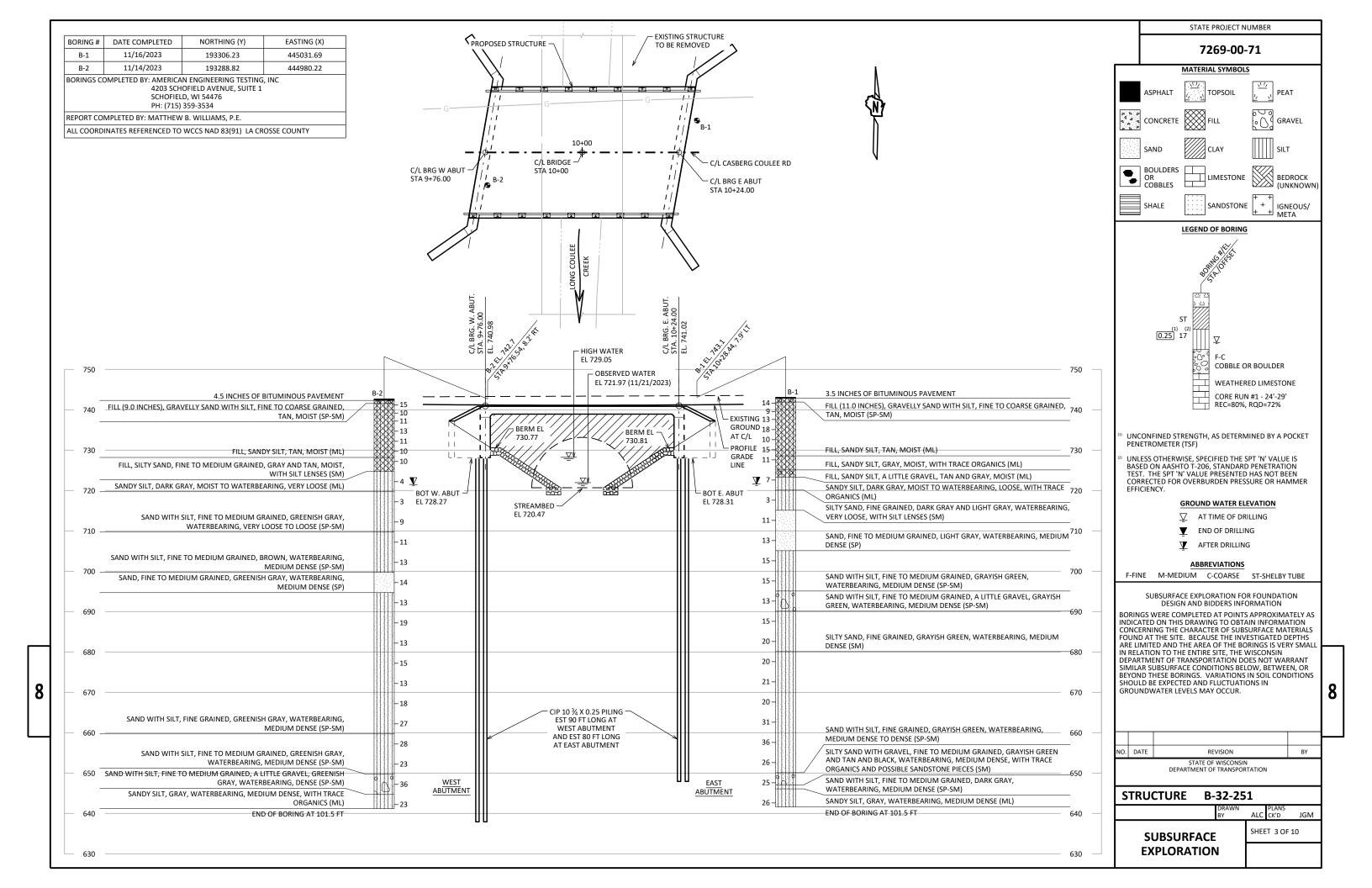
PROTECTIVE SURFACE

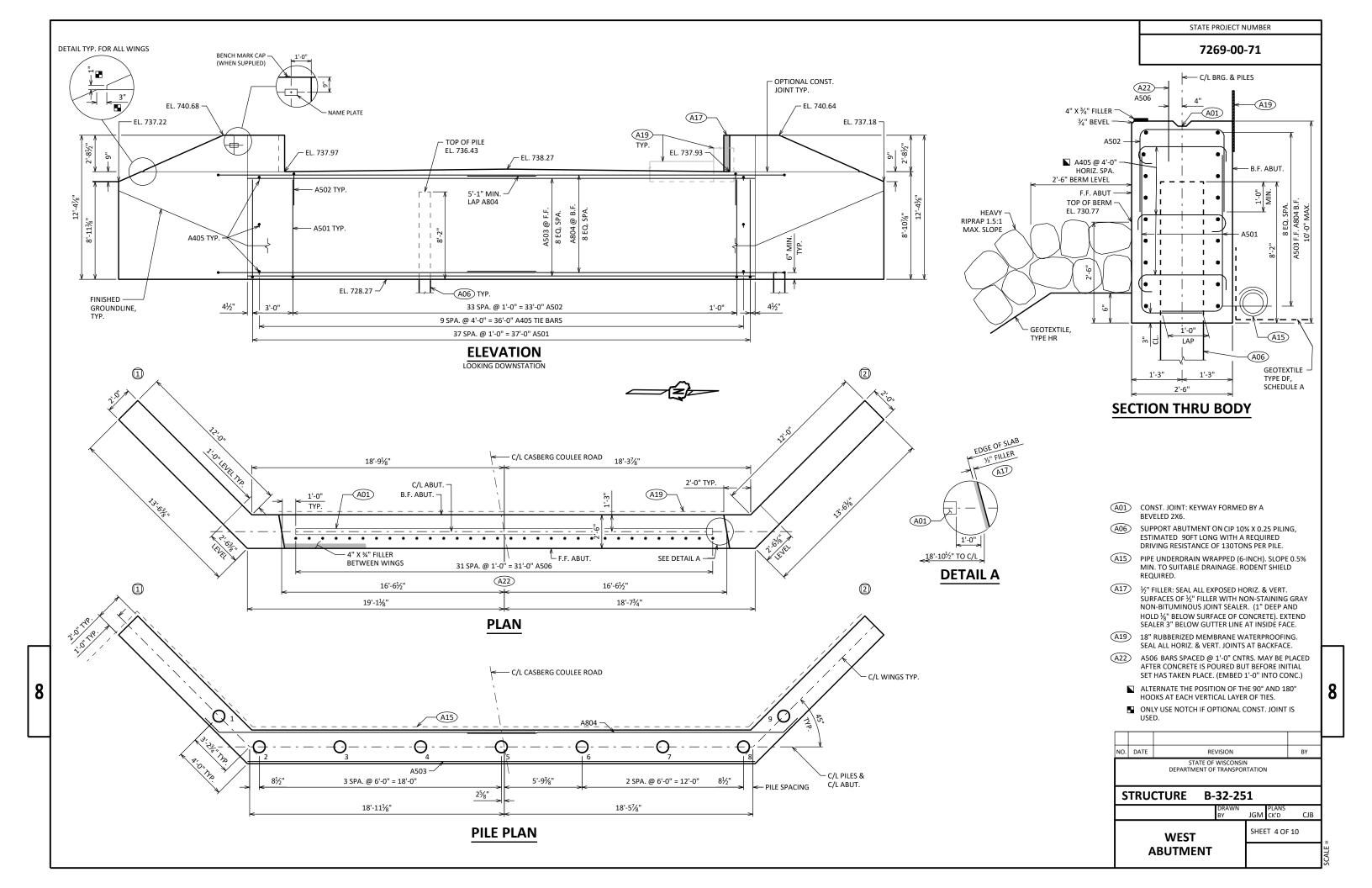
TREATMENT LIMITS

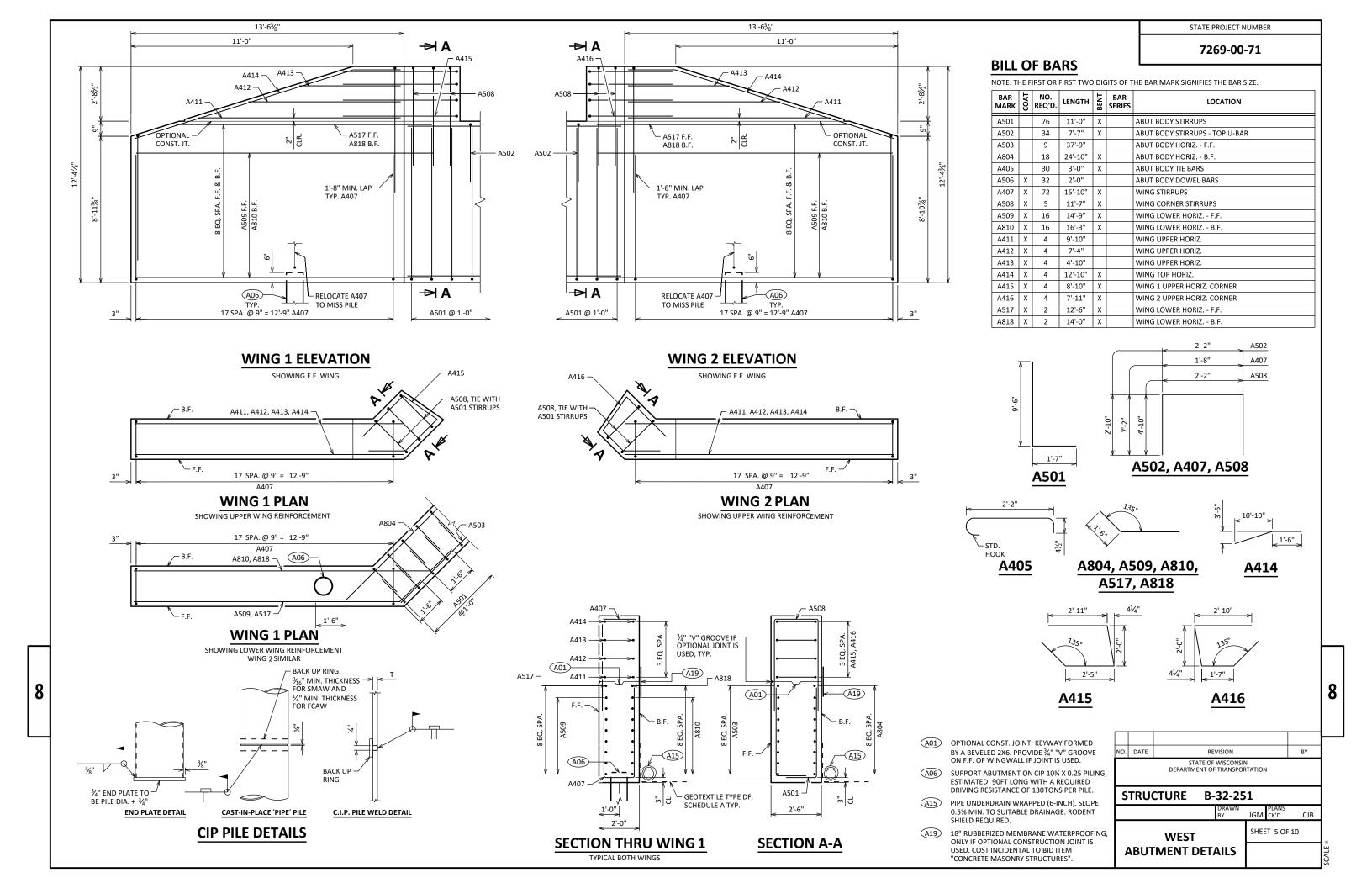


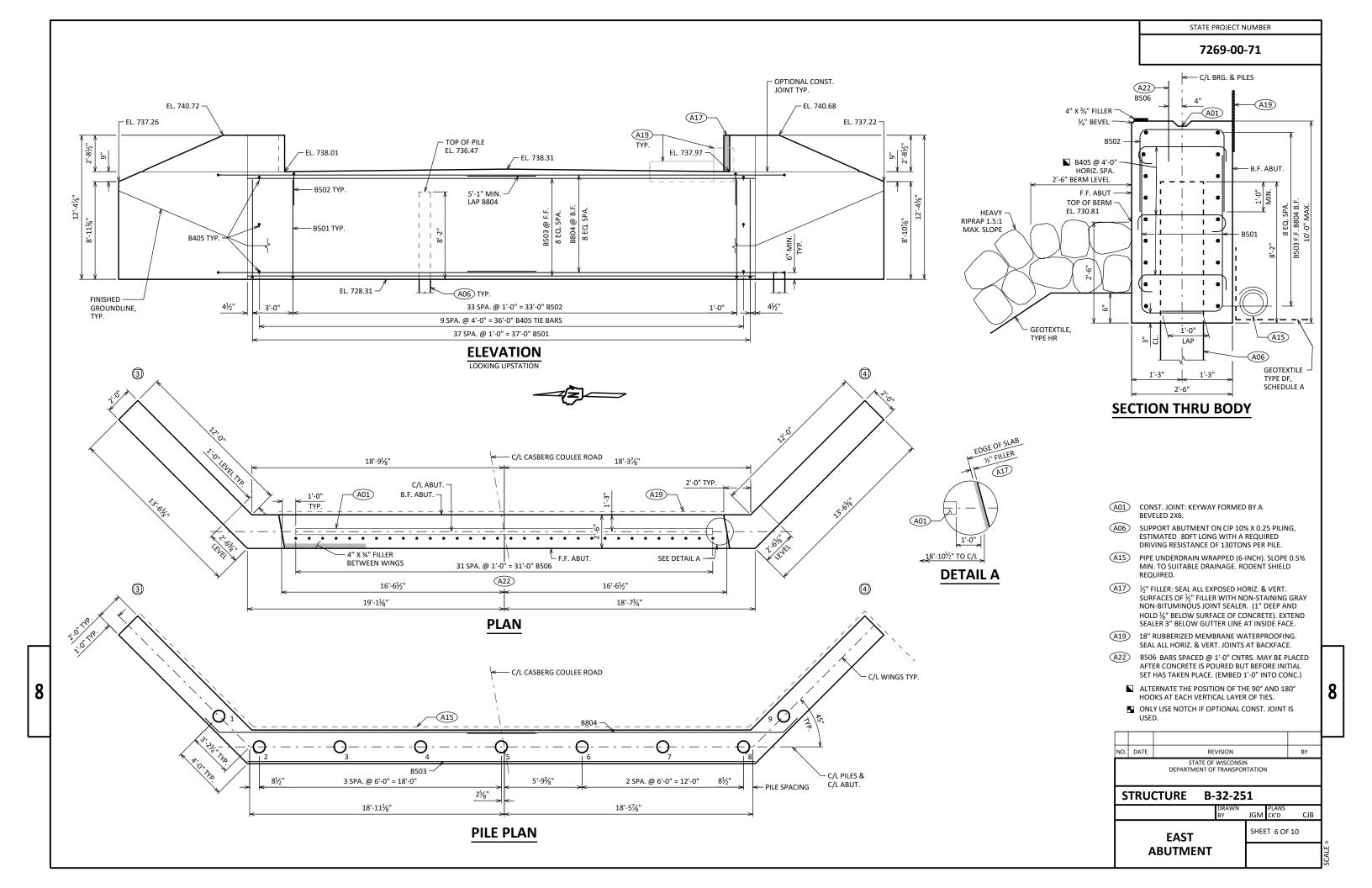
TYPICAL SECTION THRU ABUTMENT

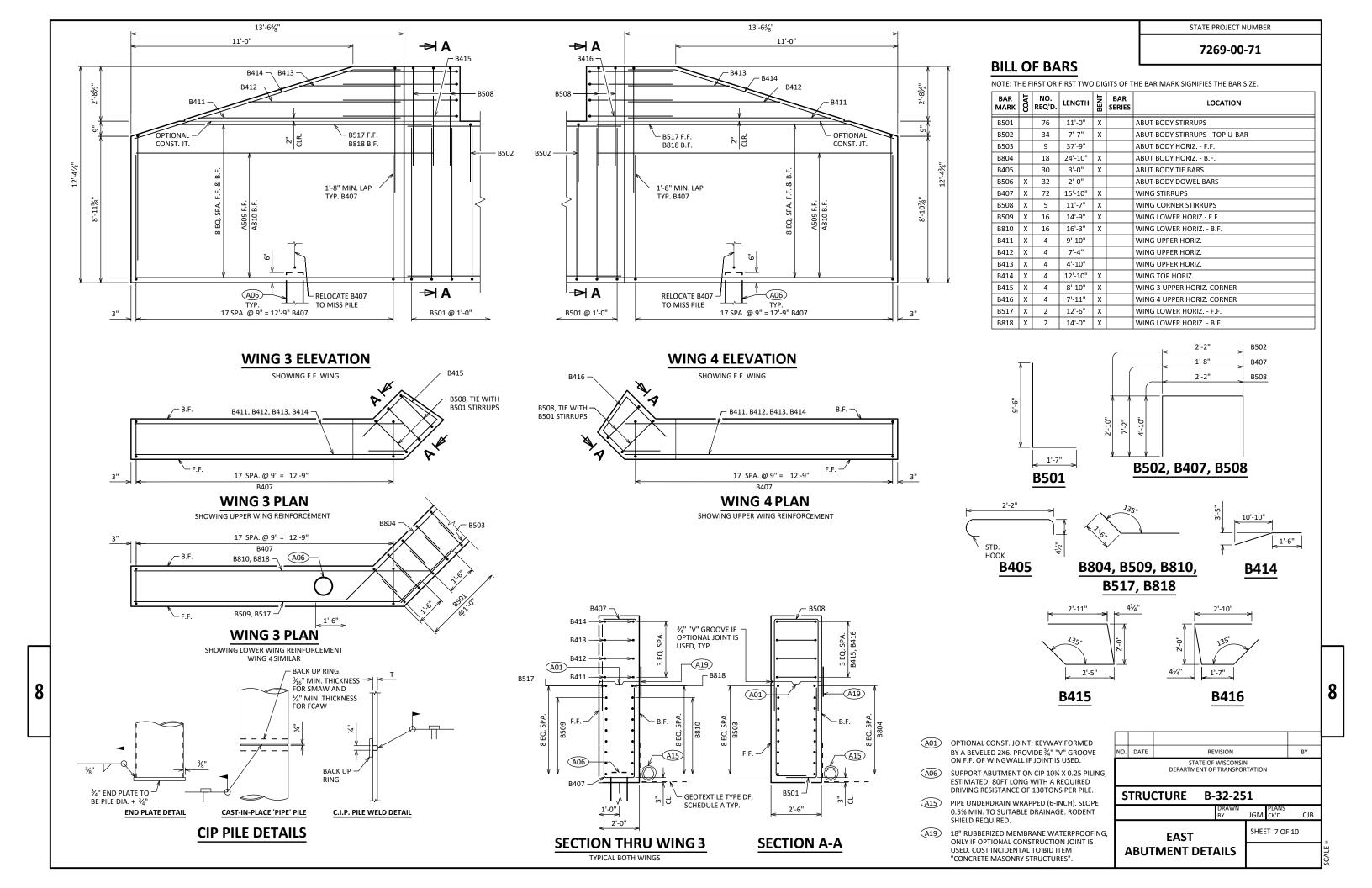
- ▲ BACKFILL PAY LIMITS. BACKFILL BEYOND PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.

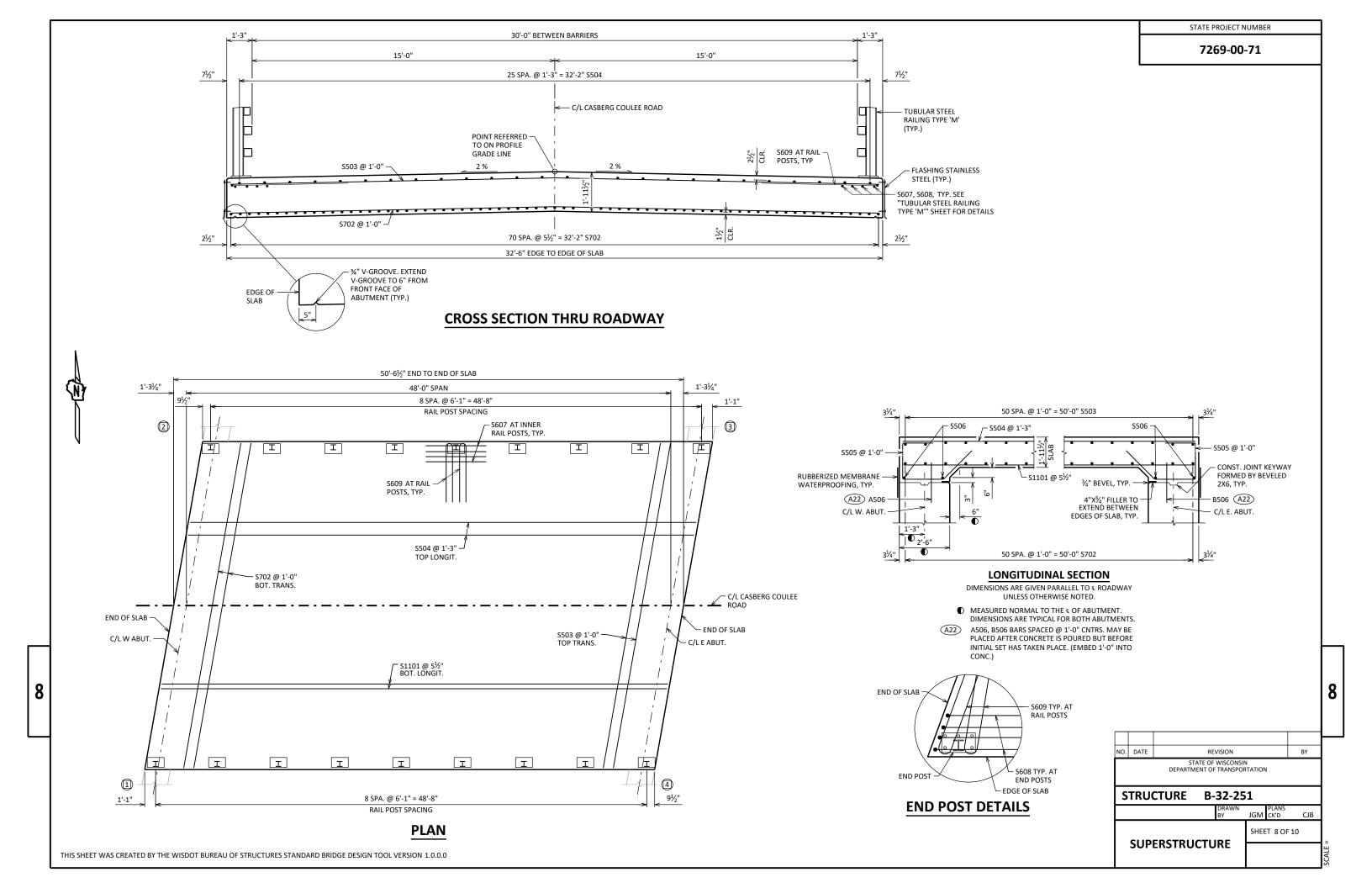






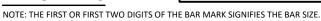


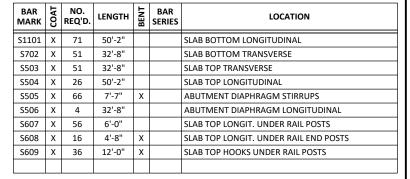




7269-00-71

STATE PROJECT NUMBER





← CAMBER SLAB THICKNESS

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 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

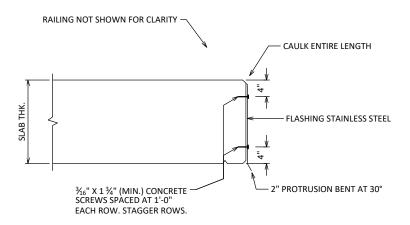
SLAB THICKNESS LESS

PLUS

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

TOP OF SLAB ELEVATIONS

LOCATION	C/L BRG. W. ABUT.	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7/10 PT.	8/10 PT.	9/10 PT.	C/L BRG. E. ABUT.
N. EDGE OF DECK	740.64	740.62	740.61	740.60	740.60	740.61	740.62	740.63	740.66	740.69	740.72
CROWN OR R/L	740.98	740.95	740.94	740.93	740.92	740.92	740.93	740.94	740.96	740.99	741.02
S. EDGE OF DECK	740.68	740.65	740.63	740.61	740.60	740.60	740.60	740.61	740.63	740.65	740.68



FLASHING DETAIL FOR NEW BRIDGES WITH OPEN RAILING

THE BID ITEM "FLASHING STAINLESS STEEL" SHALL INCLUDE PROVIDING AND INSTALLING THE STAINLESS STEEL FLASHING, CAULK, $3\!\!1_6$ " CONCRETE SCREWS AND CLEANING THE EDGE OF THE DECK PRIOR TO THE ATTACHMENT OF THE FLASHING.

FLASHING TO BE INSTALLED AFTER PROTECTIVE SURFACE TREATMENT APPLICATION.

CONCRETE SCREWS SHALL BE 410 STAINLESS STEEL.

EXTEND FLASHING TO B.F. OF ABUTMENT DIAPHRAGM.

TOP OF FLASHING TO BEGIN APPROX. 1-INCH BELOW TOP OF DECK/SLAB SURFACE.

THE FLASHING IS TO BE A CONSTANT HEIGHT BASED ON THE THINNEST SLAB DEPTH OVER THE BRIDGE LENGTH.

PROVIDE 2" MINIMUM FLASHING OVERLAP, FASTEN WITH 3/16" X 2" (MIN.) CONCRETE SCREWS.

CAULK SHALL BE NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER.

THIS SHEET WAS CREATED BY THE WISDOT BUREAU OF STRUCTURES STANDARD BRIDGE DESIGN TOOL VERSION 1.0.0.0

LOCATION	ABUTMENT	5/10 PT.	ABUTMENT
N. GUTTER			
CROWN OR R/L			
S. GUTTER			

SURVEY TOP OF SLAB ELEVATIONS

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE C/L OF ABUTMENTS, THE C/L OF PIERS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG GUTTER LINES AND CROWN OR R/L. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

NOTES

2'-0"

S505

- STD

S609

S608

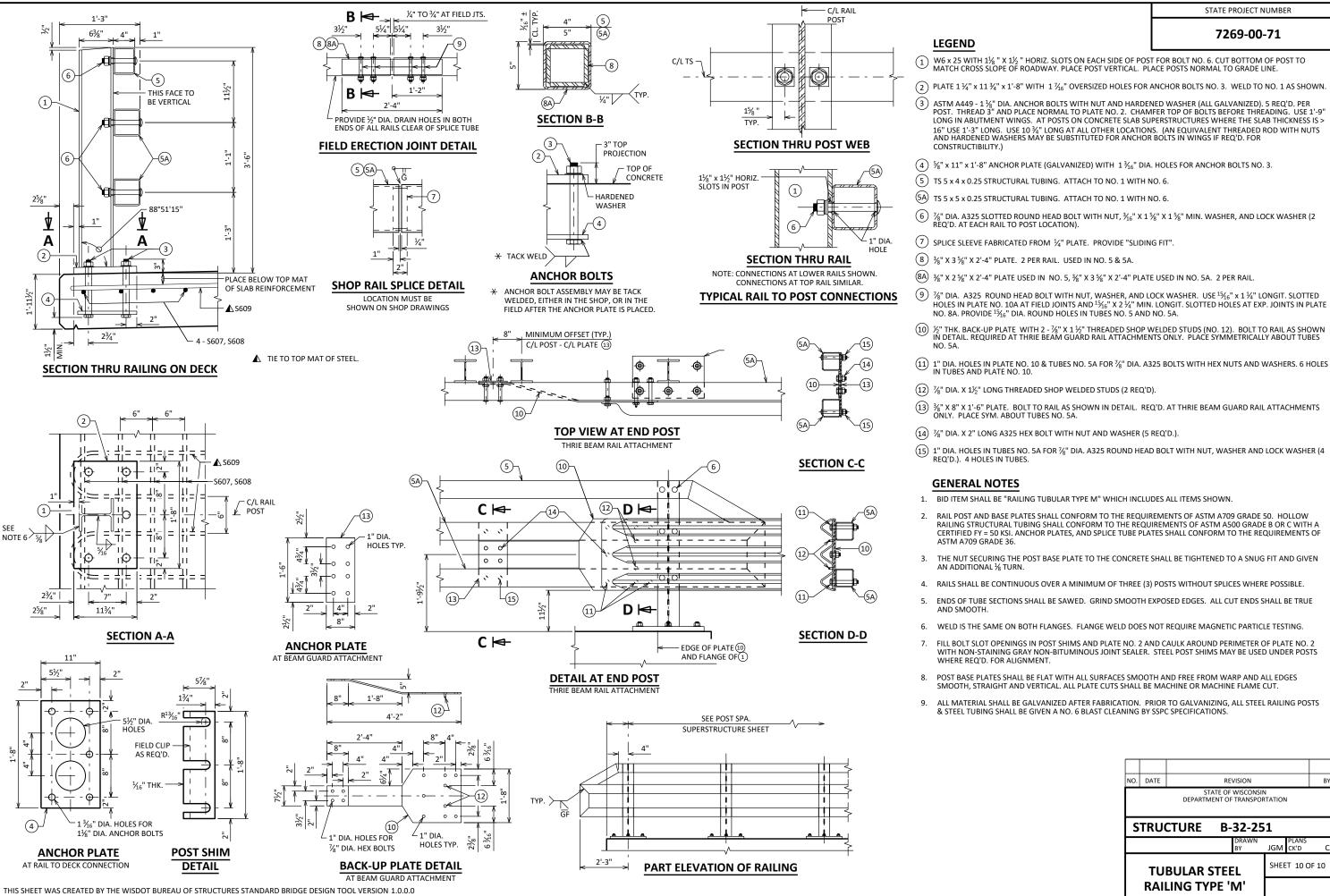
FILL IN THE TABLE OF "SURVEY TOP OF SLAB ELEVATIONS" FOR EACH SPAN ON AS BUILT PLANS.

TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

		<u> </u>			ı				
NO.	DATE	REVISION I							
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION								
S	STRUCTURE B-32-251								
			DRAWN BY	JGM CK'D	СЈВ				
	SUP	ERSTRUCTU	SHEET 9 OF 10						
	DETAILS								

8



7269-00-71

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

- 9 %" Dia. A325 round head bolt with nut, washer, and lock washer. Use $^{1}\%_{6}$ " x 1 %" longit. Slotted holes in plate No. 10a at field joints and $^{1}\%_{6}$ " x 2 %" min. Longit. Slotted holes at exp. Joints in plate
- $^{(1)}$ ½" THK. BACK-UP PLATE WITH 2 $^{\prime}$ 2" 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

- 15 1" DIA. HOLES IN TUBES NO. 5A FOR 7/8" DIA. A325 ROUND HEAD BOLT WITH NUT, WASHER AND LOCK WASHER (4
- 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
- 5. 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.
- WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS MAY BE USED UNDER POSTS
- SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-32-251 SHEET 10 OF 10 **TUBULAR STEEL RAILING TYPE 'M'**

BRIDGE B-32-251 EARTHWORK SUMMARY

					AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)	
				CUT	F11.1	CUT	FILL	CUT	FILL	MASS
CATEGORY	STATION	REAL STATION	DISTANCE	CUT	FILL	(3)	(1)	1.00	1.3 (2)	ORDINATE
	6+25 AH	625.00	0.00	91.09	5.15	0.00	0.00	0.00	0.00	0.00
0030	6+50	650.00	25.00	75.13	5.00	76.95	4.70	76.95	6.11	70.84
	7+00	700.00	50.00	74.41	15.37	138.46	18.86	215.42	30.63	184.79
	7+50	750.00	50.00	74.47	20.10	137.85	32.84	353.27	73.32	279.94
	8+00	800.00	50.00	75.98	9.44	139.31	27.35	492.57	108.88	383.69
	8+20	820.00	20.00	76.94	2.18	56.64	4.30	549.21	114.48	434.74
	8+50	850.00	30.00	91.88	0.00	93.79	1.21	643.00	116.05	526.95
0010	9+00	900.00	50.00	128.92	0.00	204.44	0.00	847.44	116.05	731.39
0010	9+31	931.00	31.00	181.96	0.00	178.47	0.00	1025.91	116.05	909.86
	9+50 BK	950.00	19.00	165.18	0.00	122.14	0.00	1148.05	116.05	1032.00
	STRUCTURE B-32	-251								
	10+50 AH	1050.00	0.00	157.85	0.00	0.00	0.00	1148.05	116.05	1032.00
	11+00	1100.00	50.00	146.98	0.00	282.25	0.00	1430.30	116.05	1314.25
0010	11+50	1150.00	50.00	120.24	0.00	247.43	0.00	1677.73	116.05	1561.68
	12+00	1200.00	50.00	100.90	0.00	204.76	0.00	1882.49	116.05	1766.44
	12+50 BK	1250.00	50.00	80.64	0.05	168.09	0.05	2050.58	116.11	1934.47
					TOTALS	2060	90			

(1) - NOT A BID ITEM - FOR INFORMATIONAL PURPOSES ONLY

(2) - FILL EXPANSION 30%

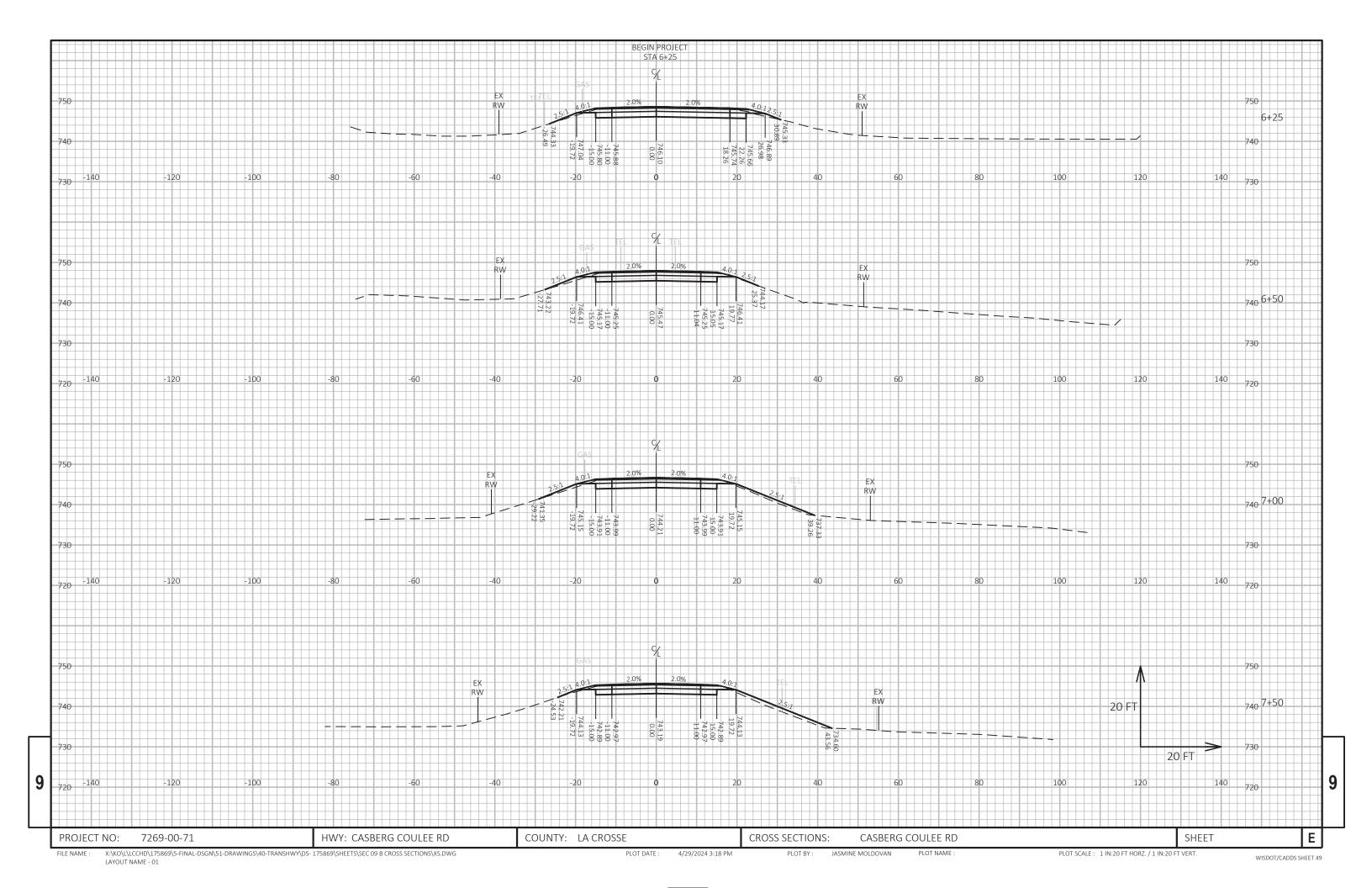
(3) - EXISTING ASPHALTIC PAVEMENT IS INCLUDED IN COMMON EXCAVATION TOTALS

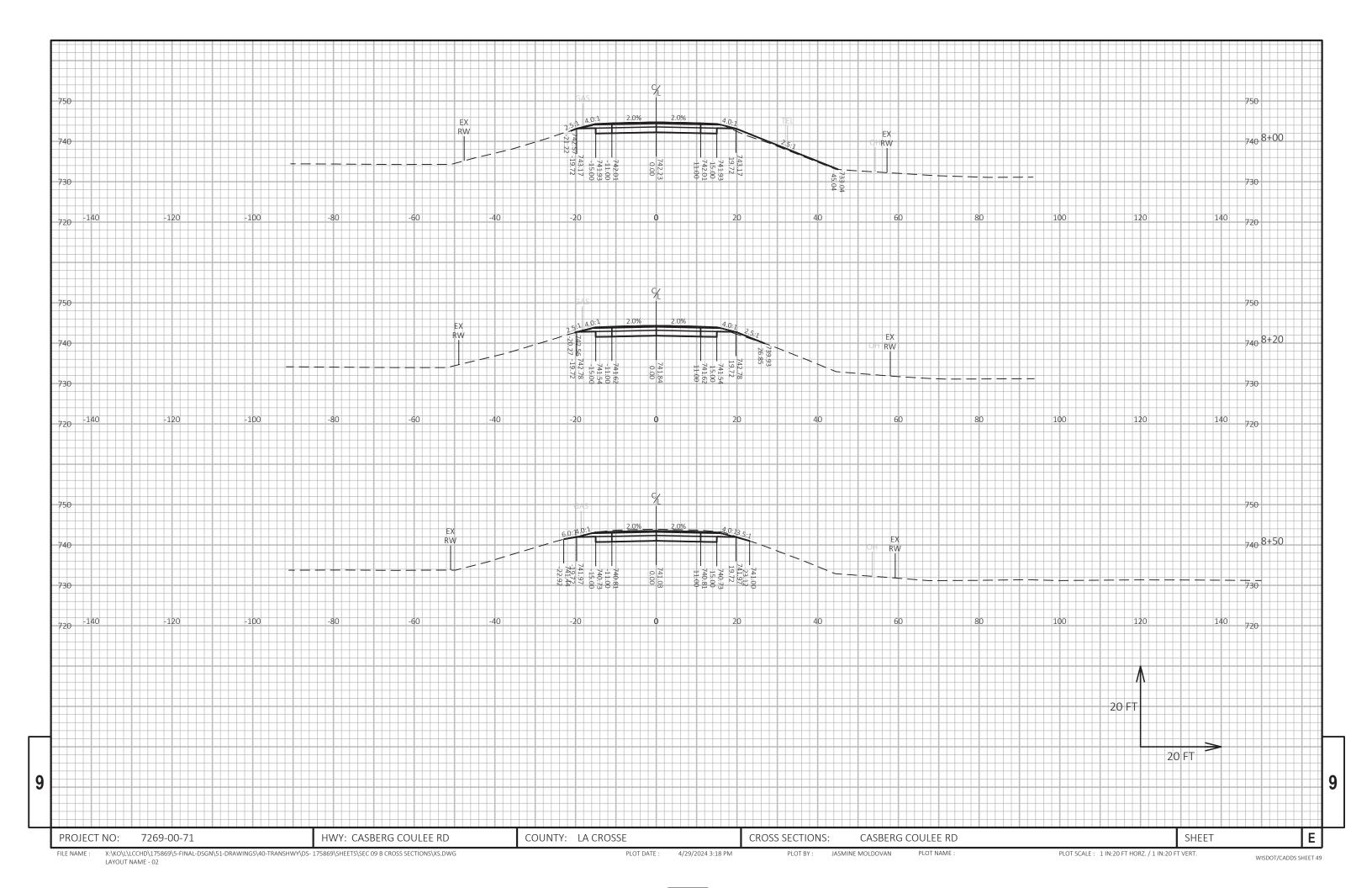
COUNTY: LA CROSSE SHEET PROJECT NO: 7269-00-71 HWY: CASBERG COULEE RD EARTHWORK SUMMARY

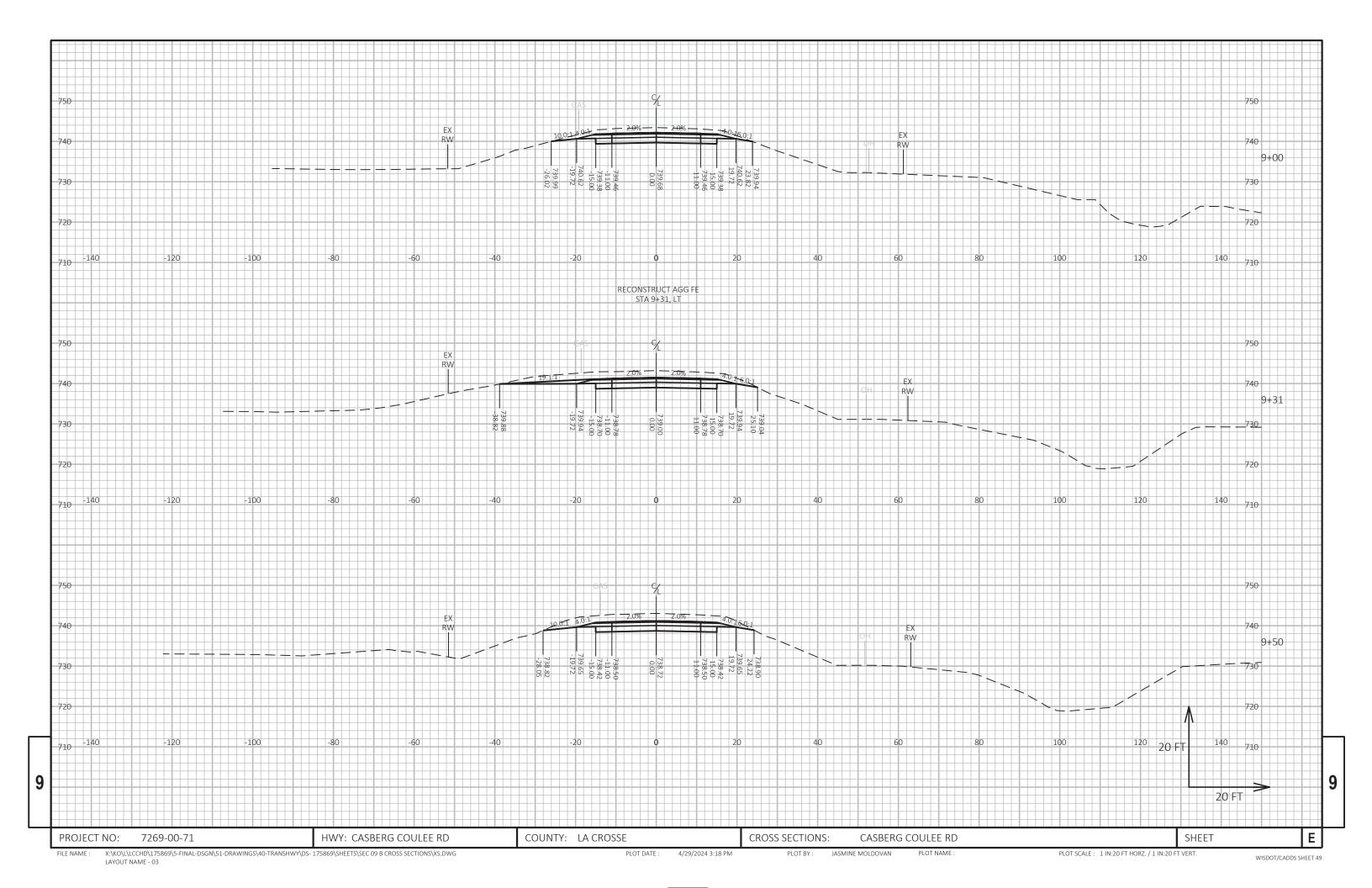
FILE NAME: X:\KO\L\LCCHD\175869\5-final-dsgn\51-drawings\40-TransHwy\DS- 175869\sheets\SEC 09 a Earthwork Data\090100-ew (Earthwork Qtys).dwg

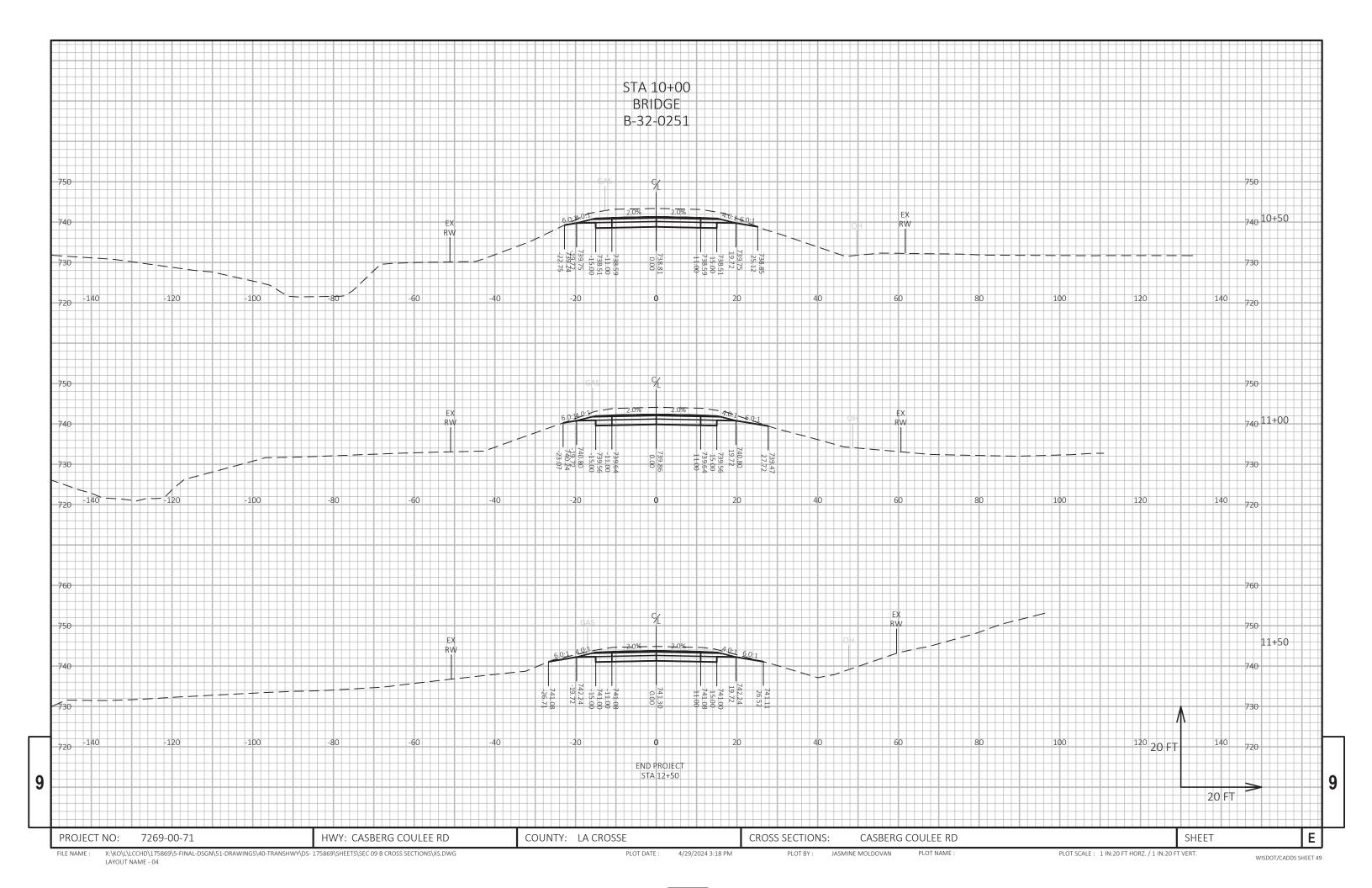
PLOT DATE : 4/29/2024 3:18 PM

PLOT SCALE : N/A











Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov