Section No. Section No.

Section No.

Section No.

Section No.

TOTAL SHEETS = 42

OCTOBER 2025 STATE OF WISCONSIN ORDER OF SHEETS Section No. **DEPARTMENT OF TRANSPORTATION** Section No. Typical Sections and Details

PLAN OF PROPOSED IMPROVEMENT

FOSTER - FALL CREEK

BRANCH OTTER CREEK BRIDGE B-18-0258

CTH K **EAU CLAIRE COUNTY**

STATE PROJECT NUMBER 7375-00-71

R-7-W

- PROJECT LOCATION

Estimate of Quantities

Plan and Profile

Cross Sections

Miscellaneous Quantities

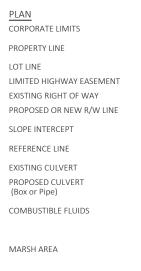
Standard Detail Drawings

Computer Earthwork Data

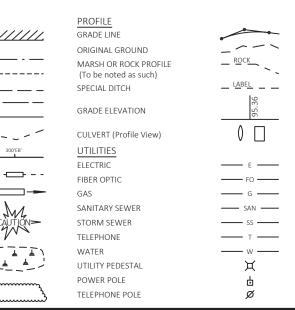
DESIGN DESIGNATION 7375-00-71 AADT (2026) = 270

A.A.D.T. (2046) = 290(2046) = 24D.H.V. D.D. = 50/50 (%) DESIGN SPEED (MPH) = 40 MPH

CONVENTIONAL SYMBOLS

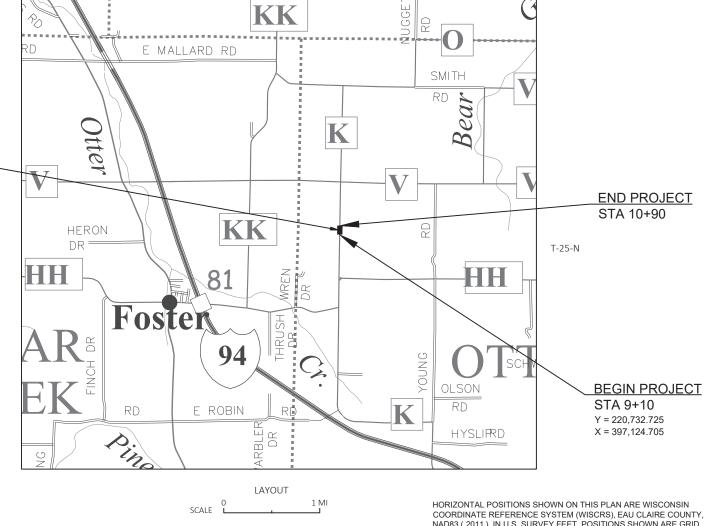


WOODED OR SHRUB AREA



STRUCTURE B-18-0258

STA 10+00



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY

FEDERAL PROJECT

ACCEPTED FOR

EAU CLAIRE COUNTY HIGHWAY DEPARTMEN'

DATE: 3/31/2025 Travis Pickering

ORIGINAL PLANS PREPARED BY

JUSTIN SHAVLIK

45324-6

CHIPPEWA FALLS

WISCONSIN

03-31-2025 SONAL EN

PROJECT

WISC 2026013

CONTRACT

STATE PROJECT

7375-00-71

Surveyor SEH Designer Project Manage Regional Examiner

ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A

JUSTIN SHAVLIK

FILE NAME: \SEHINC.COM\PANZURA\PZPROJECTS\AE\E\EAUCH\176331\5-FINAL-DSGN\C3D-CTH K BRIDGE\SHEETS\010101 TI.DWG

3/29/2025 9:23 AM

TOTAL NET LENGTH OF CENTERLINE = 0.034 MI

COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES

UTILITIES CONTACTS

BRIGHTSPEED

COMMUNICATION LINE BRIAN STELPLUGH 1905 WARD AVENUE LA CROSSE, WI 54601 PHONE: 980.376.1557

EMAIL: BRIAN.STELPLUGH@BRIGHTSPEED.COM

CTH K PROPOSED PAVEMENT								
LAYER	THICKNESS	TYPE						
UPPER	1.75-INCHES	ASPHALTIC SURFACE						
LOWER	2.25-INCHES	ASPHALTIC SURFACE						

	BENCHMARK & CONTROL POINT TABLE									
NO	STATION	X CORD	Y CORD	DESCRIPTION	ELEV					
CP 1	144' SOUTH OF STA 8+00, 13.66' RT	397,137.979	220,478.662	3/8" SPIKE IN SHLDR	1015.230'					
CP 2	STA 10+87.16, 14.25' RT	397,139.585	220,909.836	3/8" SPIKE IN SHLDR	1009.477'					
BM 1	STA 11+85.13, 40.33' LT	397,085.354	221,007.998	SPIKE IN 12" TREE	1008.453'					
BM 2	STA 9+76.96, 31.32' RT	397,156.263	220,799.570	TOP EYE BOLT ON CULVERT	1005.988'					

WISDOT CONTACT

TOU YANG WISDOT - NW REGION 718 W CLAIREMONT AVENUE EAU CLAIRE, WI 54701 PHONE: 715.833.5570 EMAIL: TOU.YANG@DOT.WI.GOV

DESIGN CONTACT

JUSTIN SHAVLIK SFH 10 NORTH BRIDGE STREET CHIPPEWA FALLS, WI 54729-2550 PHONE: 715.720.6279 EMAIL: JSHAVLIK@SEHINC.COM

COUNTY CONTACT

TRAVIS PICKERING **COUNTY ENGINEER** 5061 US HWY 53 EAU CLAIRE, WI 54701 PHONE: 715.975.0023

EMAIL: TRAVIS.PICKERING@EAUCLAIRECOUNTY.GOV

WISCONSIN DNR LIAISON

LEAH NICOL WEST CENTRAL REGION 1300 W CLAIREMONT AVENUE EAU CLAIRE, WI 54701 PHONE: 715.934.9014 EMAIL: LEAH.NICOL@WISCONSIN.GOV

GENERAL NOTES

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

HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LBS/SY/IN.

RIGHT OF WAY INFORMATION SHOWN ON THE PLANS IS APPROXIMATE.

WHEN THE QUANTITY OF THE ITEMS OF BASE AGGREGATE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYERS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT APPROXIMATE LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND APPROVED BY THE ENGINEER. MAINTAIN EROSION CONTROL MEASURES UNTIL SUCH A TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

SAWCUTS, AS SHOWN ON THE PLANS, ARE SUGGESTED LOCATIONS AND MAY BE ADJUSTED AT THE DISCRETION OF THE ENGINEER TO BETTER SUIT FIELD CONDITIONS.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

DO NOT DRIVE OR STORE EQUIPMENT, OR STORE CONSTRUCTION MATERIALS IN ENVIRONMENTALLY SENSITIVE AREAS, WETLANDS OR WATERWAYS.

WISDOT BENCHMARK WILL BE SUPPLIED BY THE STATE AND INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER

RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP											
		А			В			С		D			
	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	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	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38	
NOW CROPS.	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56	
MEDIAN STRIPTURF:	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30	
IVIEDIAN STRIFTORF.	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40	
SIDE SLOPETURF:			.25			.27			.28			.30	
SIDE SLOPETORF.			.32			.34			.36			.38	
PAVEMENT:													
ASPHALT:						.70	95						
CONCRETE:						.80	95						
BRICK:	.7080												
DRIVES, WALKS:	.7585												
ROOFS:						.75 -	95						
GRAVEL ROADS, SHOULDERS:						.40 -	60						

TOTAL PROJECT AREA = <u>0.384</u> ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.259 ACRES

7375-00-71

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

GENERAL NOTES

JUSTIN SHAVLIK

SHEET

FILE NAME :

PROJECT NO:

8/6/2025 3:39 PM

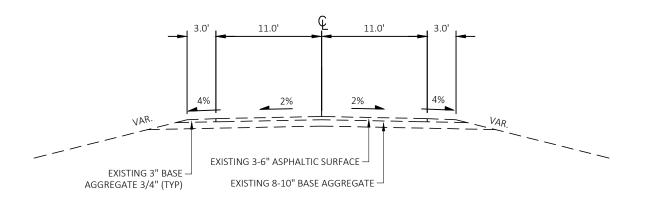
COUNTY: EAU CLAIRE

PLOT BY:

PLOT SCALE:

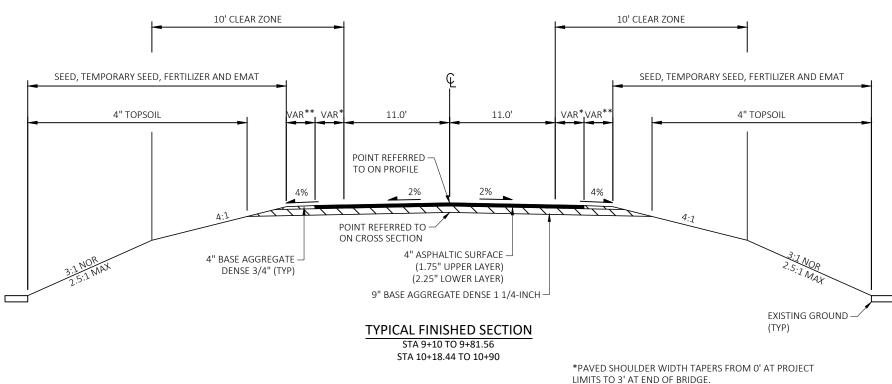
Ε

HWY: CTH K



		BORING	LOG
<u>NO.</u>	<u>STA</u>	OFFSET	EXISTING MATERIAL
B-1	9+85	6' LT	3" ASPHALT OVER 5" BASE
B-2	10+15	6' RT	3" ASPHALT OVER 5" BASE OVER 3" ASPHALT OVER 5" BASE

TYPICAL EXISTING SECTION STA 9+10 TO 10+90



**UNPAVED SHOULDER WIDTH TAPERS FROM 3' AT PROJECT LIMITS TO 1' AT END OF BRIDGE WING WALLS.

COUNTY: EAU CLAIRE Ε PROJECT NO: 7375-00-71 HWY: CTH K TYPICAL SECTIONS SHEET \\SEHINC.COM\PANZURA\PZPROJECTS\AE\E\EAUCH\176331\5-FINAL-DSGN\C3D-CTH K BRIDGE\SHEETS\020301 TS.DWG FILE NAME :

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Line	Item	Item Description	Unit	Total	Qty	
0002	203.0220	Removing Structure (structure) 01. B-18-97	EACH	1.000	1.000	
0004	204.0165	Removing Guardrail	LF	244.000	244.000	
0006	205.0100	Excavation Common	CY	131.000	131.000	
8000	206.1001	Excavation for Structures Bridges (structure) 01. B-18-0258	EACH	1.000	1.000	
0010	210.1500	Backfill Structure Type A	TON	298.000	298.000	
0012	213.0100	Finishing Roadway (project) 01. 7375-00-71	EACH	1.000	1.000	
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	15.000	15.000	
0016	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	272.000	272.000	
0018	415.0080	Concrete Pavement 8-Inch	SY	22.000	22.000	
0020	415.0410	Concrete Pavement Approach Slab	SY	106.000	106.000	
0022	455.0605	Tack Coat	GAL	18.000	18.000	
0024	465.0105	Asphaltic Surface	TON	66.000	66.000	
0026	502.0100	Concrete Masonry Bridges	CY	129.400	129.400	
0028	502.3200	Protective Surface Treatment	SY	115.000	115.000	
0030	505.0400	Bar Steel Reinforcement HS Structures	LB	4,440.000	4,440.000	
0032	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	17,950.000	17,950.000	
0034	513.4061	Railing Tubular Type M	LF	114.000	114.000	
0036	516.0500	Rubberized Membrane Waterproofing	SY	18.000	18.000	
0038	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	575.000	575.000	
0040	606.0300	Riprap Heavy	CY	120.000	120.000	
0042	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	170.000	170.000	
0044	618.0100	Maintenance and Repair of Haul Roads (project) 01. 7375-00-71	EACH	1.000	1.000	
0046	619.1000	Mobilization	EACH	1.000	1.000	
0048	624.0100	Water	MGAL	2.800	2.800	
0050	625.0100	Topsoil	SY	440.000	440.000	
0052	628.1504	Silt Fence	LF	400.000	400.000	
0054	628.1520	Silt Fence Maintenance	LF	400.000	400.000	
0056	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000	
0058	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000	
0060	628.2027	Erosion Mat Class II Type C	SY	439.000	439.000	
0062	628.6005	Turbidity Barriers	SY	13.000	13.000	
0064	628.7504	Temporary Ditch Checks	LF	40.000	40.000	
0066	629.0210	Fertilizer Type B	CWT	0.400	0.400	
0068	630.0120	Seeding Mixture No. 20	LB	20.000	20.000	
0070	630.0200	Seeding Temporary	LB	12.000	12.000	
0072	630.0500	Seed Water	MGAL	14.000	14.000	
0074	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0076	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0078	638.2602	Removing Signs Type II	EACH	6.000	6.000	
0800	638.3000	Removing Small Sign Supports	EACH	6.000	6.000	
0082	642.5001	Field Office Type B	EACH	1.000	1.000	
0084	643.0420	Traffic Control Barricades Type III	DAY	1,278.000	1,278.000	
0086	643.0705	Traffic Control Warning Lights Type A	DAY	1,988.000	1,988.000	
8800	643.0900	Traffic Control Signs	DAY	994.000	994.000	
0090	643.5000	Traffic Control	EACH	1.000	1.000	
0092	645.0111	Geotextile Type DF Schedule A	SY	60.000	60.000	
0094	645.0120	Geotextile Type HR	SY	200.000	200.000	
0096	646.2020	Marking Line Epoxy 6-Inch	LF	423.000	423.000	
0098	650.4500	Construction Staking Subgrade	LF	144.000	144.000	

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Page	- 7

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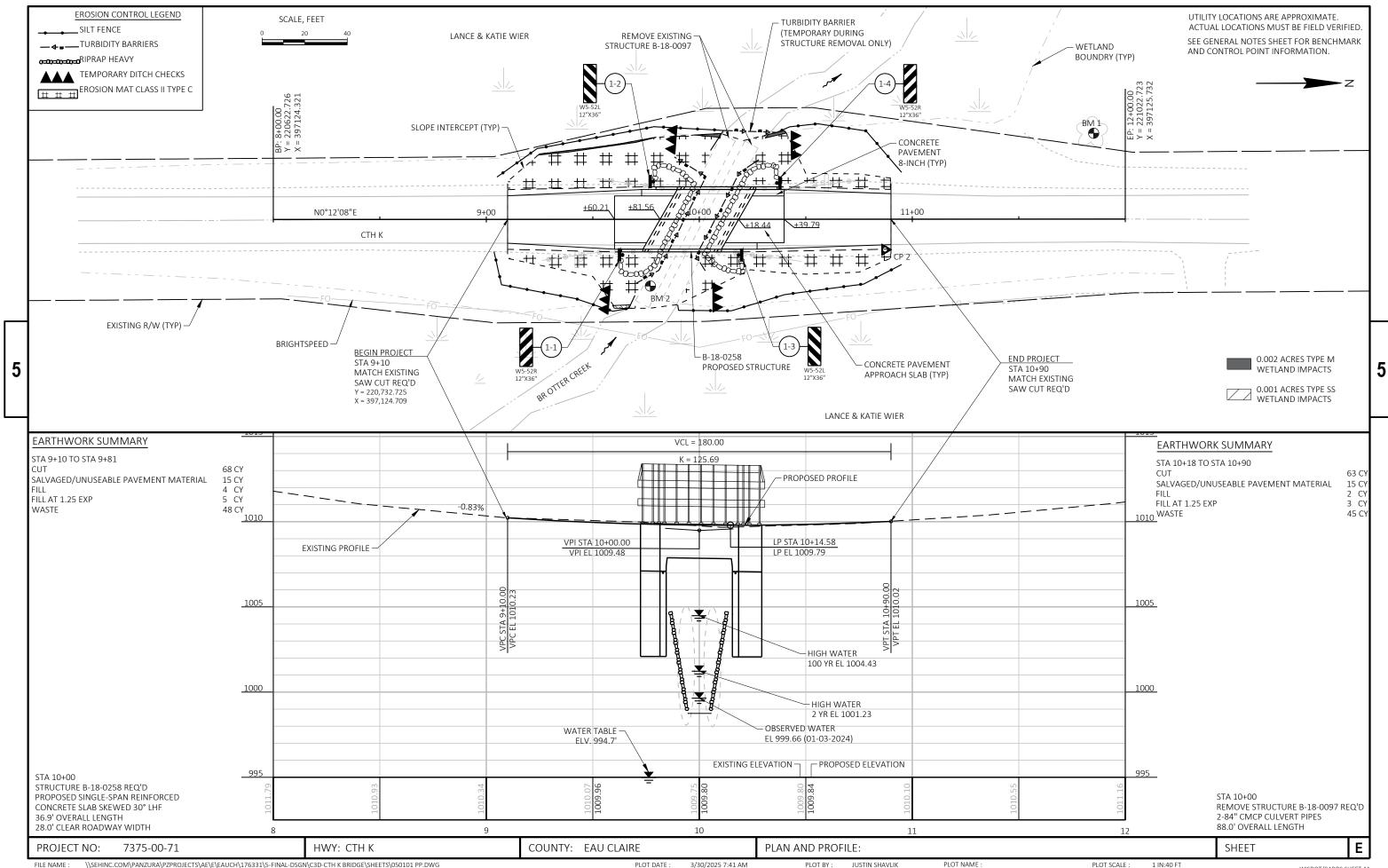
72	75 (7-00	1
13	75-0	JU-1	1

Line	Item	Item Description	Unit	Total	Qty
0100	650.5000	Construction Staking Base	LF	144.000	144.000
0102	650.6501	Construction Staking Structure Layout (structure) 01. B-18-0258	EACH	1.000	1.000
0104	650.9911	Construction Staking Supplemental Control (project) 01. 7375-00-71	EACH	1.000	1.000
0106	650.9920	Construction Staking Slope Stakes	LF	144.000	144.000
0108	690.0150	Sawing Asphalt	LF	46.000	46.000
0110	715.0502	Incentive Strength Concrete Structures	DOL	780.000	780.000
0112	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	500.000	500.000
0114	ASP.1.1PA	On-the-Job Training Pre-Apprentice at \$5.00/HR	HRS	300.000	300.000
0116	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000

Estimate Of Quantities

REMOVING GUARDRAIL 204.016	5 <u>STATION</u>	LOCATION	205.0100 EXCAVATION COMMON CY	SALVAGED/ UNUSABLE PAVEMENT MATERIAL CY	AVAILABLE MATERIAL CY	EXPANDED FILL CY	WASTE CY			3(/4-INCH 1	L 1/4-INCH W	ATER	<u>CONCRETE</u> STION	PAVEMENT 8-I	<u>INCH</u> 415.0080 SY
TION LOCATION LF K 16 - 10+48 RT 122 12 - 10+73 LT 122 11 TOTAL 244	2) AVAILABLE	90 LT & RT			53 48 101	5 3 8	48 45 93	10+1	〈) - 9+82 LT	EATION & RT & RT ——	8 7 15	136 :	1.4 1.4 10-	H K 60 - 9+75 73 - 9+90 +10 - 10+27 +25 - 10+40 M TOTAL	RT LT RT LT	5 6 6 5 ———————————————————————————————
CONCRETE PAVEMENT APPROACH S STATION LOCATION CTH K	SLAB 415.0410 SY		ALTIC PAVEMENT IT 455.1 TA CO CATION G/	0605 465.010! CK ASPHALTI OAT SURFACE	C E	TATION		525.0100 TOPSOIL SY	629.0210 S FERTILIZER M	30.0120 SEEDING MIXTURE	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL	STATION	MOBILIZATIONS ERO 628.: EROS CONT EAG	62 1905 EM SION EI FROL CO	28.1910 IERGENCY ROSION ONTROL EACH
9+60 - 9+82 LT & RT 10+18 - 10+40 LT & RT ITEM TOTAL	53 53 106		T & RT		9-	TH K +10 - 9+82 0+18 - 10+90 EM TOTALS	LT & RT LT & RT	220 220 440	0.2 0.2 0.4	10 10 20	6 6	7 7 14	CTH K 9+10 - 10+9 ITEM TOTAL		3	3
STATION LOCATION	628.1504 S	N CONTROL ITEMS 628.2027 628.1520 EROSION MA ILT FENCE CLASS II INTENANCE TYPE C LF SY	T 628.6005 TURBIDITY BARRIERS SY	628.7504 TEMPORARY DITCH CHECKS LF			SIGN GROUP SIG CODE COE		SIGN MESSAGE	<u>PE</u> TYPE II SIZE	634.0612 POSTS WOOD 4X6-INCH 12-FT EACH	637.2230 SIGNS	638.2602 REMOVING SIGNS TYPE II EACH	G SMALL SIGN	REMARKS	
CTH K 9+10 - 9+82	210 - 190 400	210 220 - 190 219 400 439	- 13 -	20 - 20 40	=		CTH K 1-1 W5-5 1-2 W5-5 1-3 W5-5 1-4 W5-5 - R12 - R12	2R C 2R C 2L C	CLEARANCE STRIPER CLEARANCE STRIPER CLEARANCE STRIPER CLEARANCE STRIPER EIGHT LIMIT 20 TONS EIGHT LIMIT 20 TONS	12" X 36" 12" X 36" 12" X 36" 12" X 36" 12" X 36" 24" X 30"	1 1 1 1 - -	3 3 3 3 - -	1 1 1 1 1 1	1 1 1 1 1 1	REPLACE REPLACE REPLACE REPLACE REMOVE REMOVE	
643.0420 BARRICADES TYPE III STATION EACH DAY CTH K	TRAFFIC CONTROL 643.0705 WARNING LIGHTS TYPE A EACH DAY	643.0900 SIGNS EACH DAY	CALENDAR DAYS	STATION CTH K 9+10 - 10+90	LOCATION CL LT & RT	MARKING LINE 646.2020 EPOXY 6-INCH LF 63 360	REMARKS YELLOW SKIP CEN WHITE EDGEI		<u>STATION</u> CTH K 9+10 - 9+82	CON LOCATION LT & RT	650.4500 SUBGRADI LF	650.5000	650.9920 SLOPE STAKES LF 72 72	STATION LO	VING ASPHALT DCATION LT & RT LT & RT	690.0150 LF 22 24

FILE NAME : \SEHINC.COM\PANZURA\PZPROJECTS\AE\E\EAUCH\176331\5-FINAL-DSGN\C3D-CTH K BRIDGE\SHEETS\030201 MQ.DWG LAYOUT NAME - 01



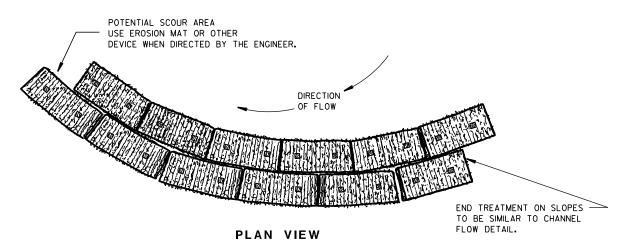
Standard Detail Drawing List

)8E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
)8E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
L2A03-10	NAME PLATE (STRUCTURES)
L3A03-07	CONCRETE PAVEMENT SHOULDERS
L3B02-09A	CONCRETE PAVEMENT APPROACH SLAB
L3C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
L3C19-03	HMA LONGITUDINAL JOINTS
L5C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
L5C02-09в	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
L5C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
L5C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
L5C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

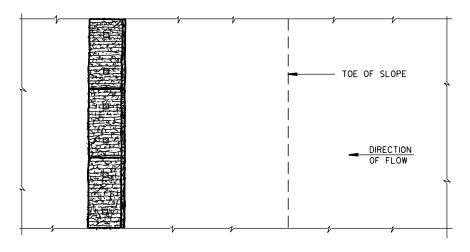
GENERAL NOTES

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

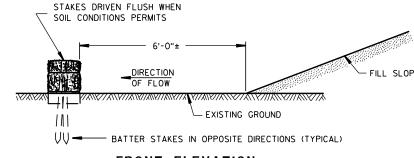
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

- \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

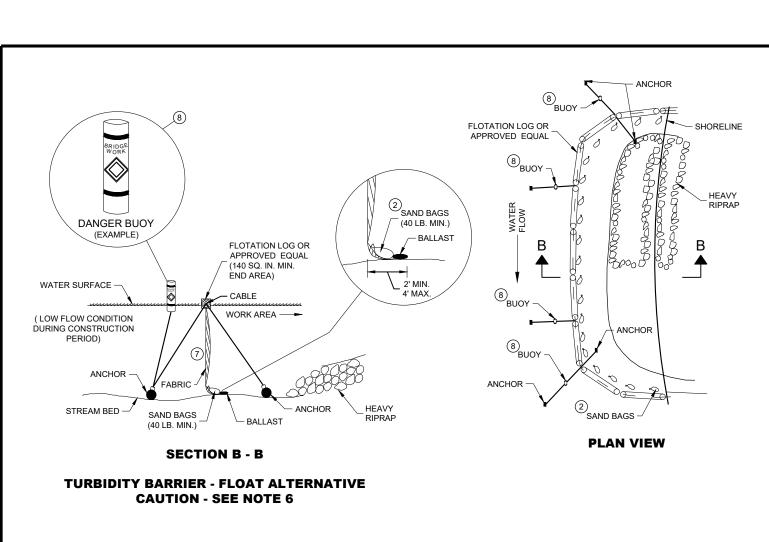
(WHEN REQUIRED BY THE ENGINEER)

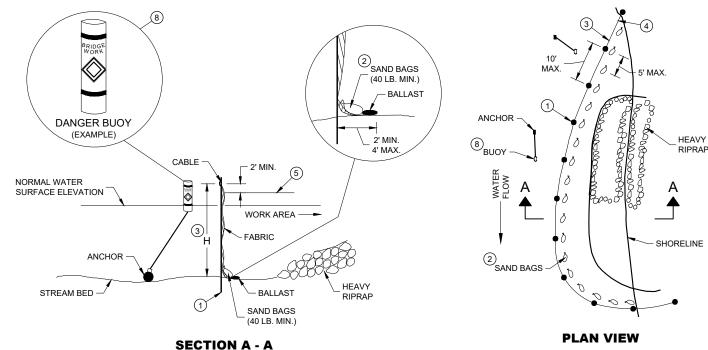


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TURBIDITY BARRIER - STANDARD POST INSTALLATION

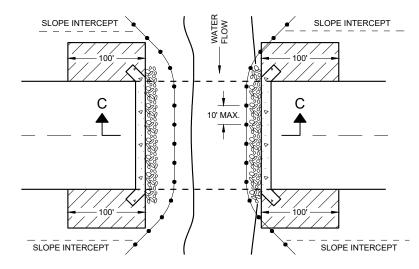
TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

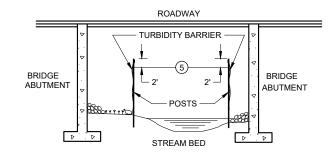
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

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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

6

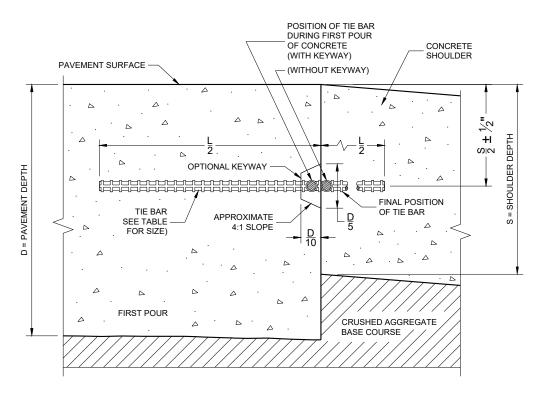
GENERAL NOTES

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

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE

TIE BARS SHALL CONFORM TO SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.



SECTION A - A LONGITUDINAL CONSTRUCTION JOINT

- JOINT SPACING (SEE TABLE) -1' - 0" DOWEL BARS 12" C -C DOWEL BARS 12" C -C (SEE DOWEL BAR TABLE) SHOULDER WIDTH TIE BAR (SEE TIE BAR TABLE TIE BAR SPACING FOR SIZE) (SEE TABLE) LONGITUDINAL JOINT → 15" MIN. →

PLAN VIEW CONCRETE PAVEMENT SHOULDER

TIE BAR TABLE

	PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING	
	<10 ½"	NO. 4	30"	36"	
	>10 %"	NO. 5	36"	36"	
	> 10 /2	NO. 4*	30"	_{24"} * *	

* SUBSTITUTE BENT BATS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES.

CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER ***	CONTRACTION JOINT SPACING	
6", 6 ½"	NONE	12"	
7", 7 ½"	1"	14"	
8" & ABOVE	1 1/4"	15"	

FOR DOWELED CONCRETE SHOULDERS WITH TRAPEZOIDAL CROSS SECTIONS, CHOSE THE APPROPRIATE DOWEL BAR DIAMETER BASED ON THE SMALLER PAVEMENT DEPTH (LIKELY THE OUTSIDE EDGE OF THE SHOULDER). IF USING BASKETS, USE BASKETS FRO THE AVERAGE THICKNESS OF THE CROSS SECTION.

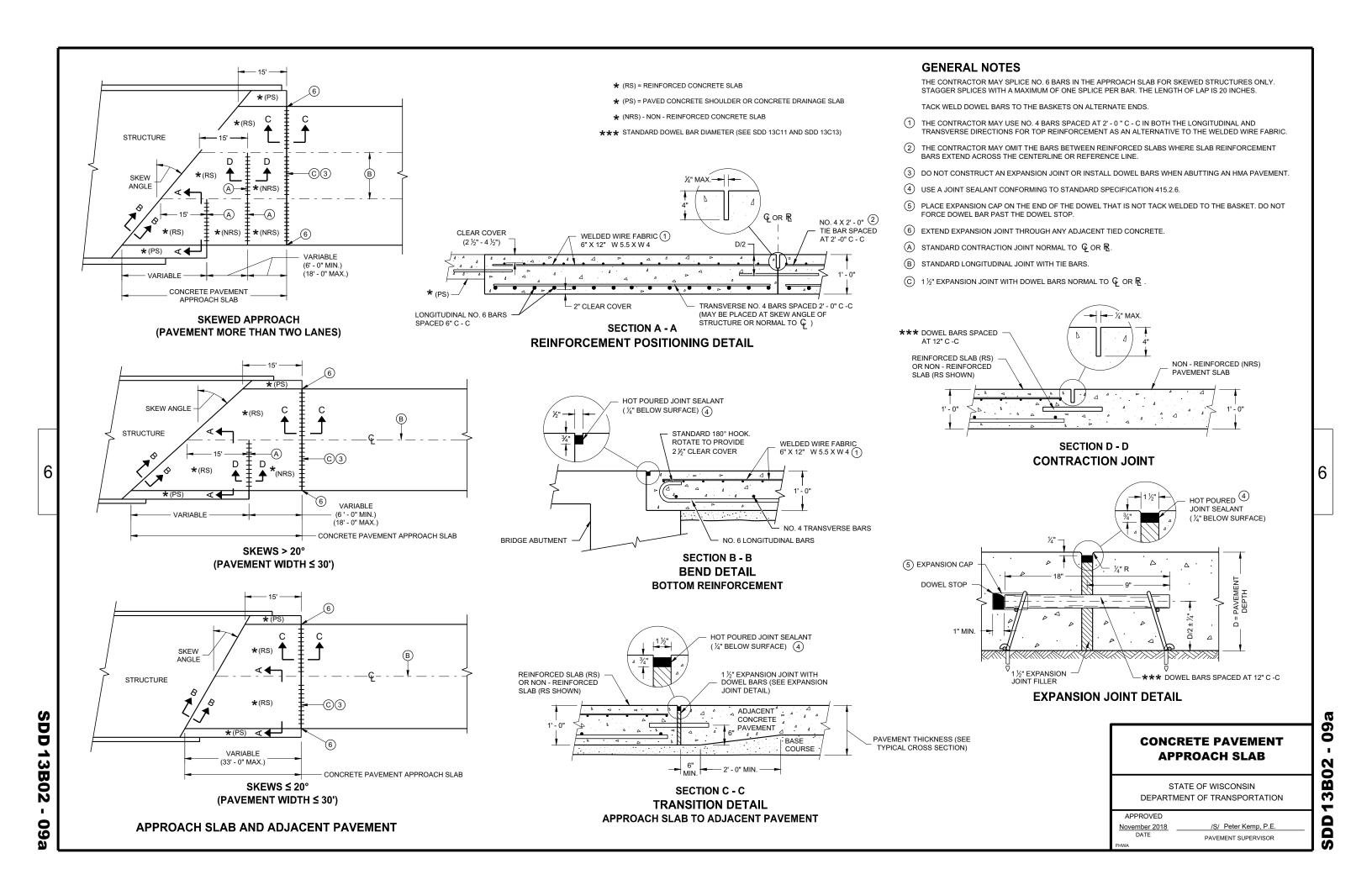
CONCRETE PAVEMENT SHOULDERS

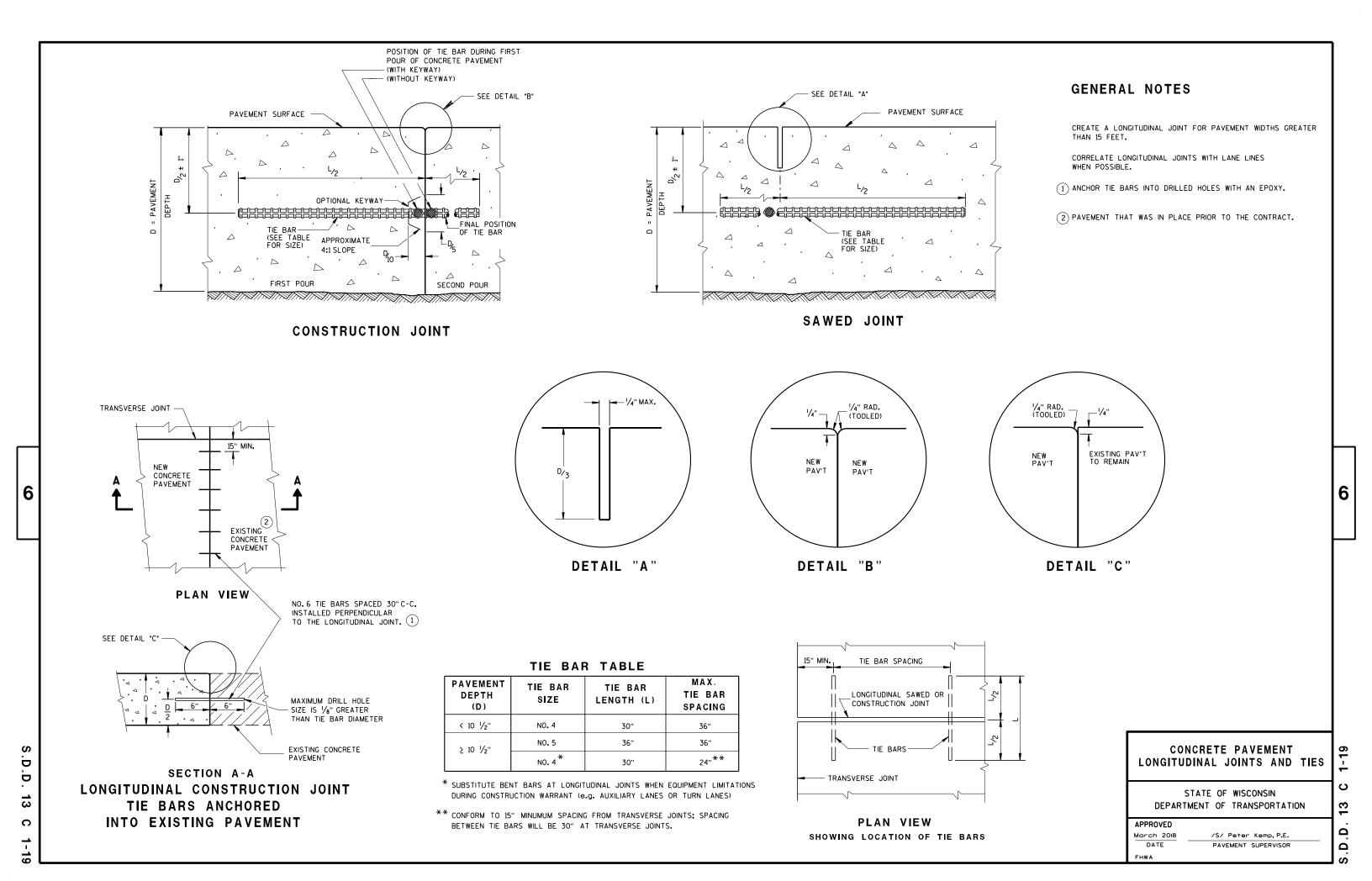
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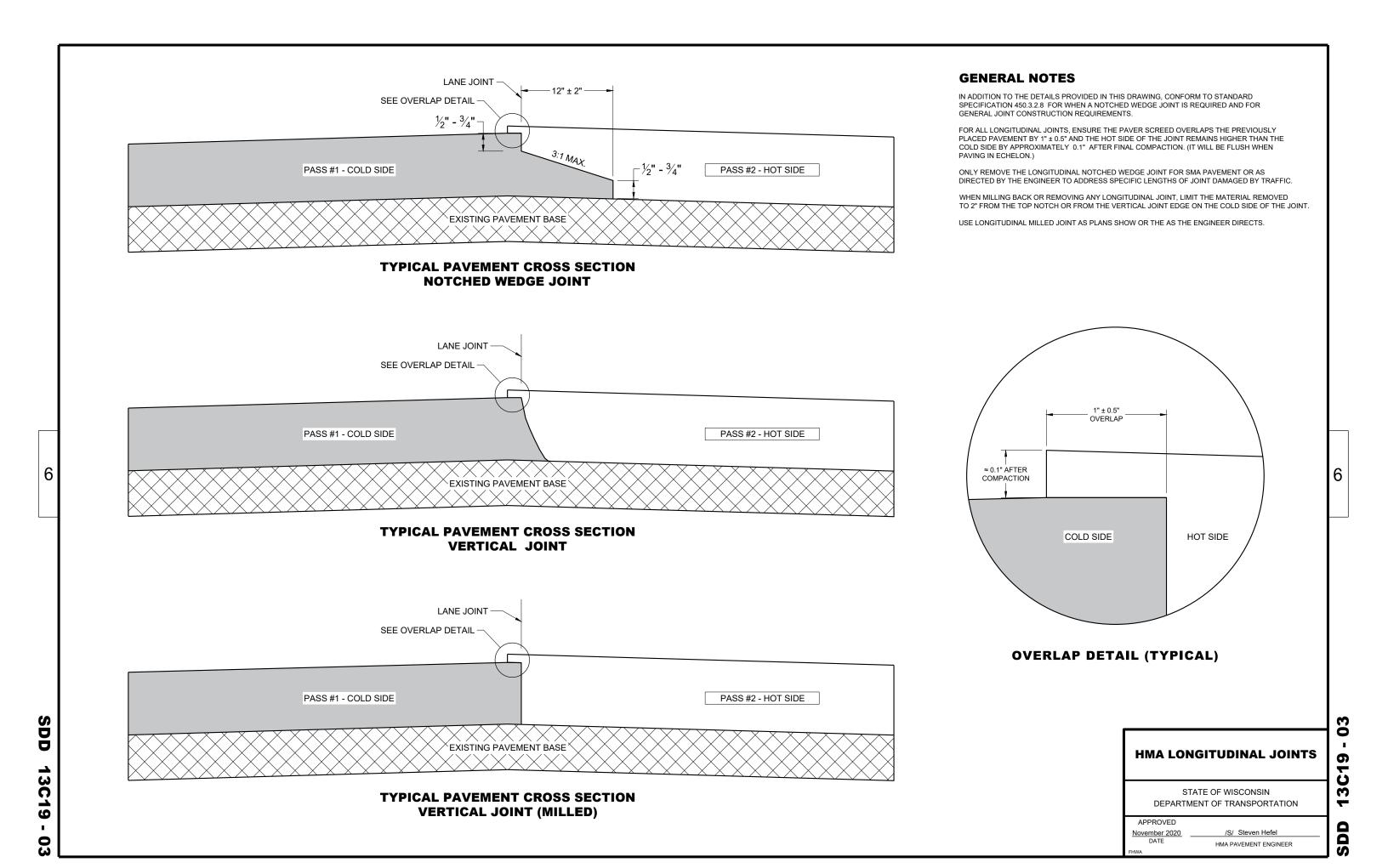
3A03

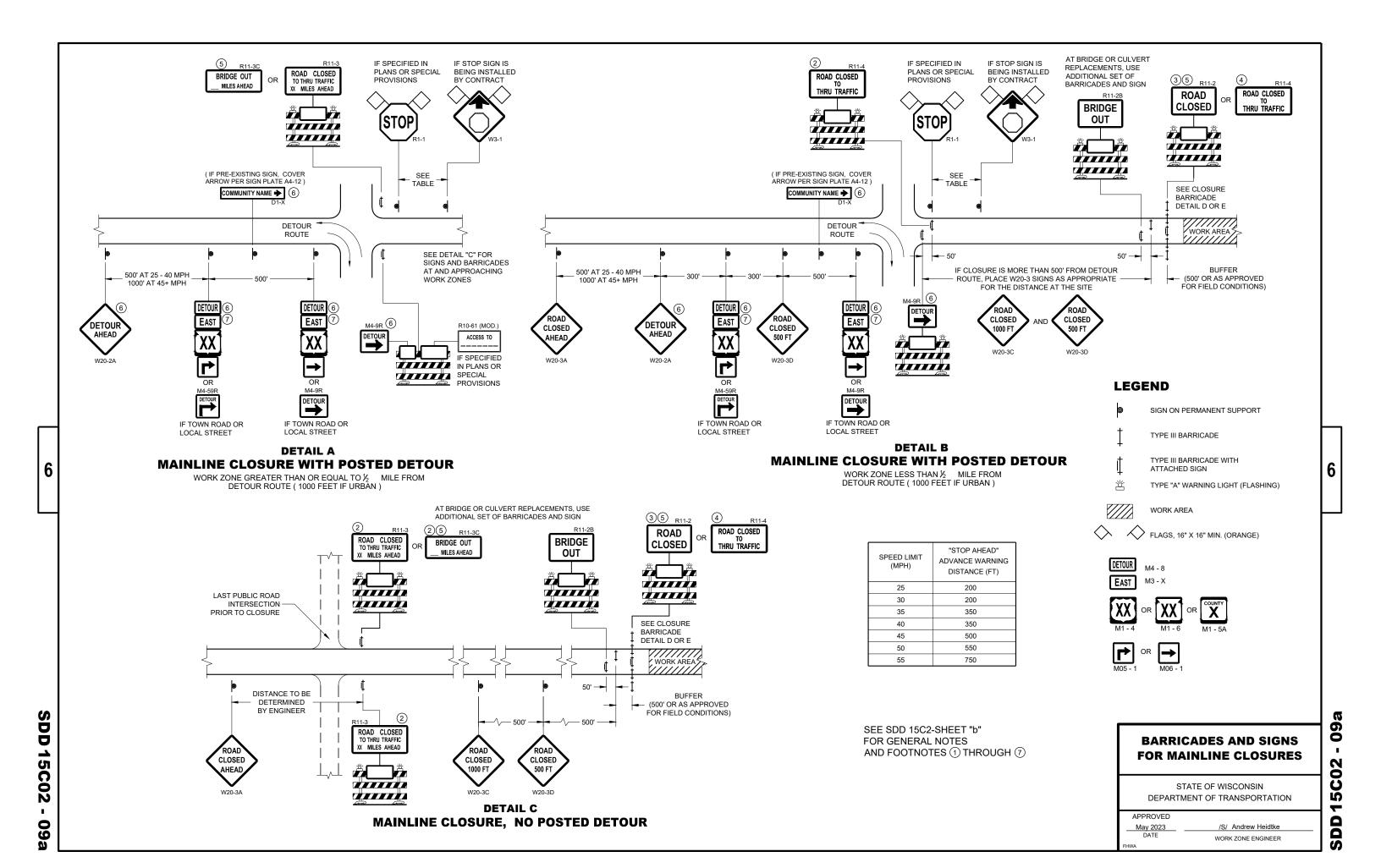
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2022 DATE /S/ Peter Kemp PAVEMENT SUPERVISOR









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

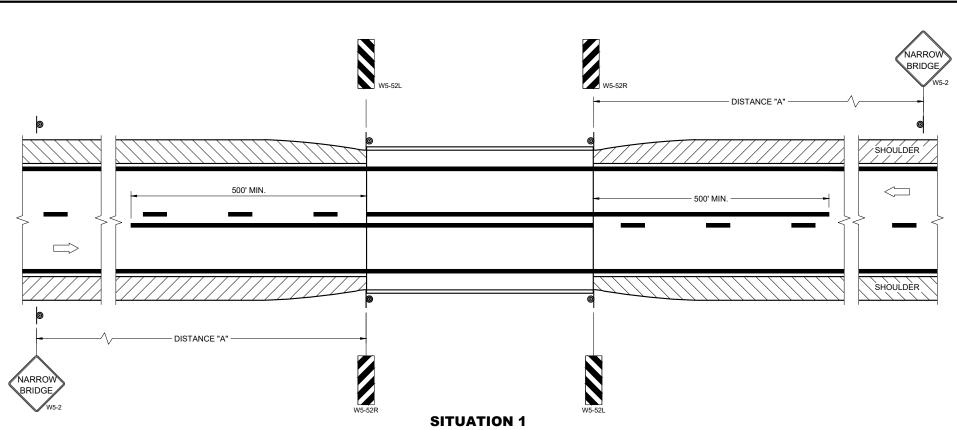
DATE WORK ZONE ENGINEER

015C02 -

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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

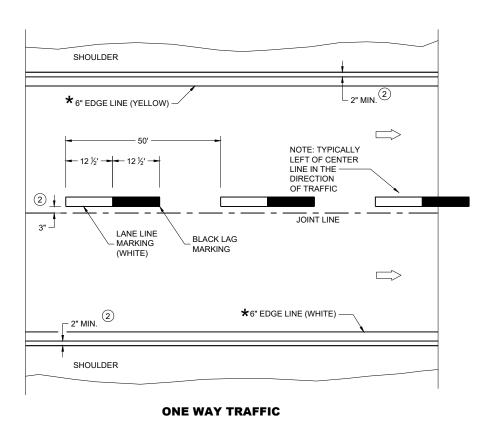
DISTANCE TABLE

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

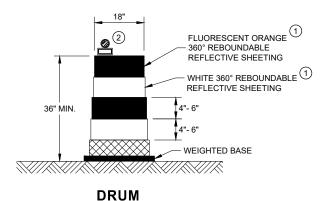
C08-23 Ŋ SD

15C08-23a

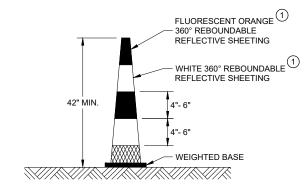
SDD 15C11

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.

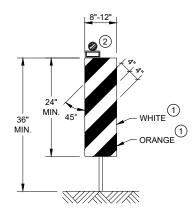


BALLAST WIDTHS RANGE FROM 24"-36"



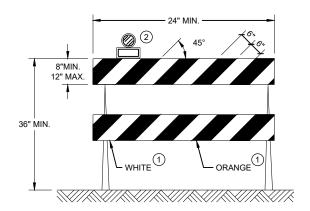
42" CONE

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



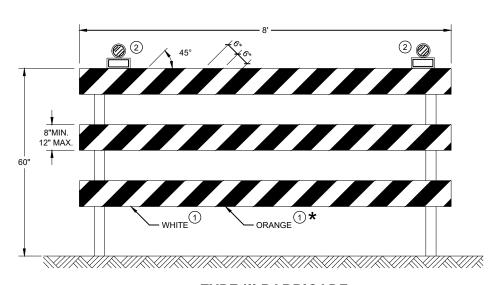
VERTICAL PANEL

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 (TWO POSTS REQUIRE)	
	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	Е
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

CUEET NO.

SHEET NO:

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

PROJECT NO:

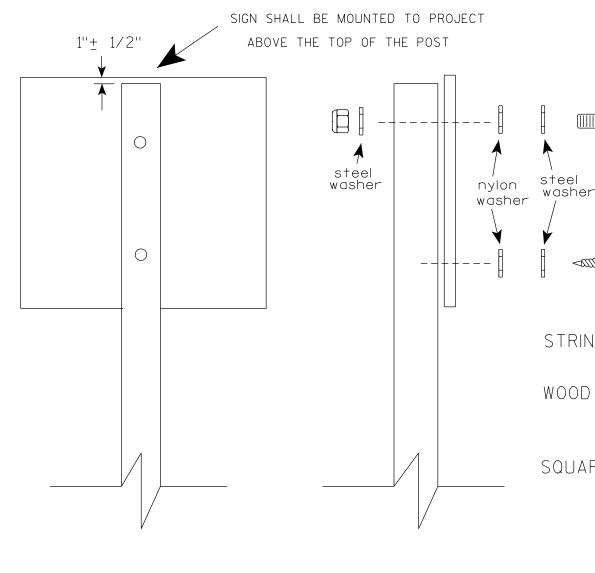
COUNTY:

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

CHANNEL

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 NAME :

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

PROJECT NO:

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

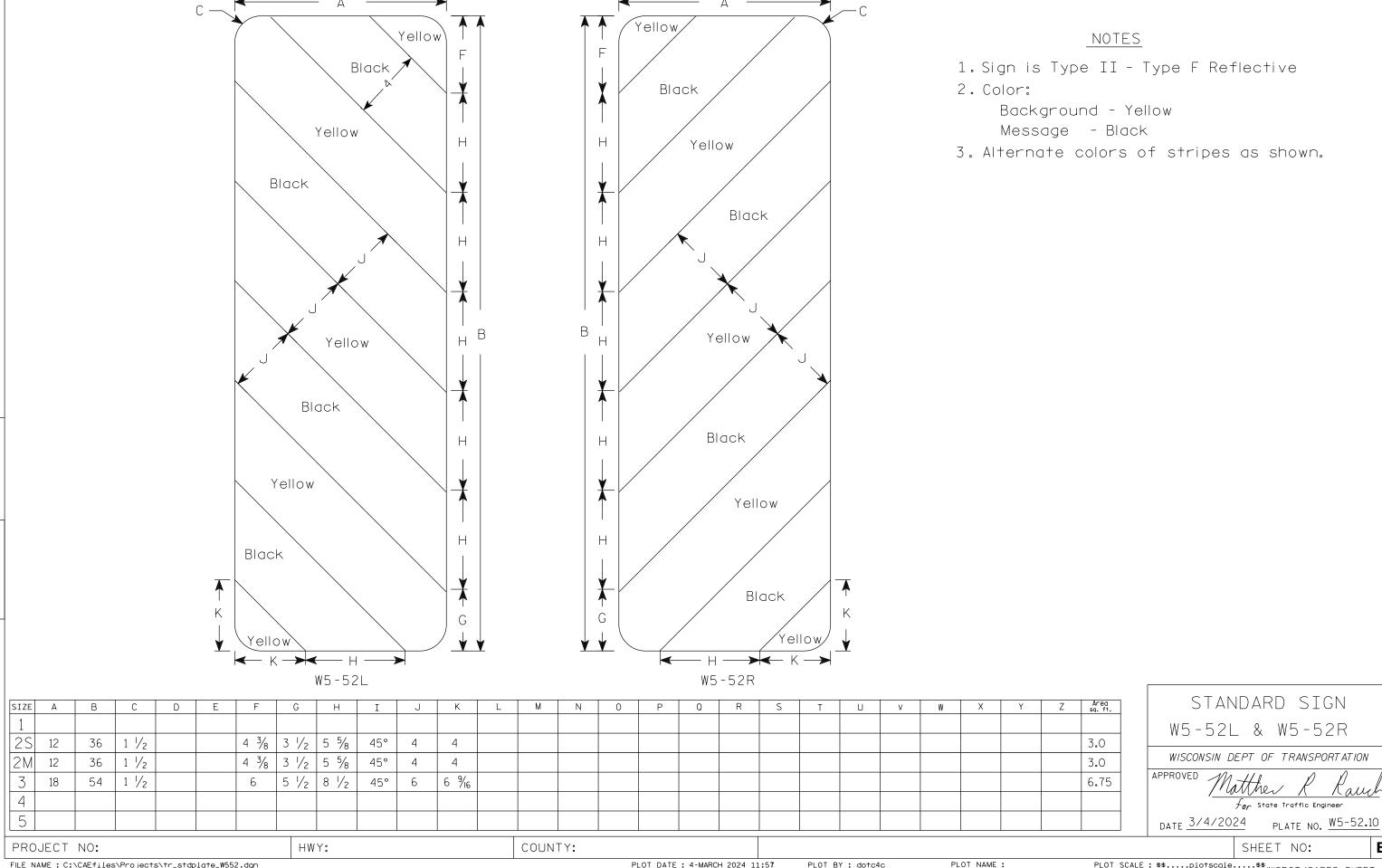
PROJECT NO:

PLOT DATE: 19-APRIL 2022 11:55

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

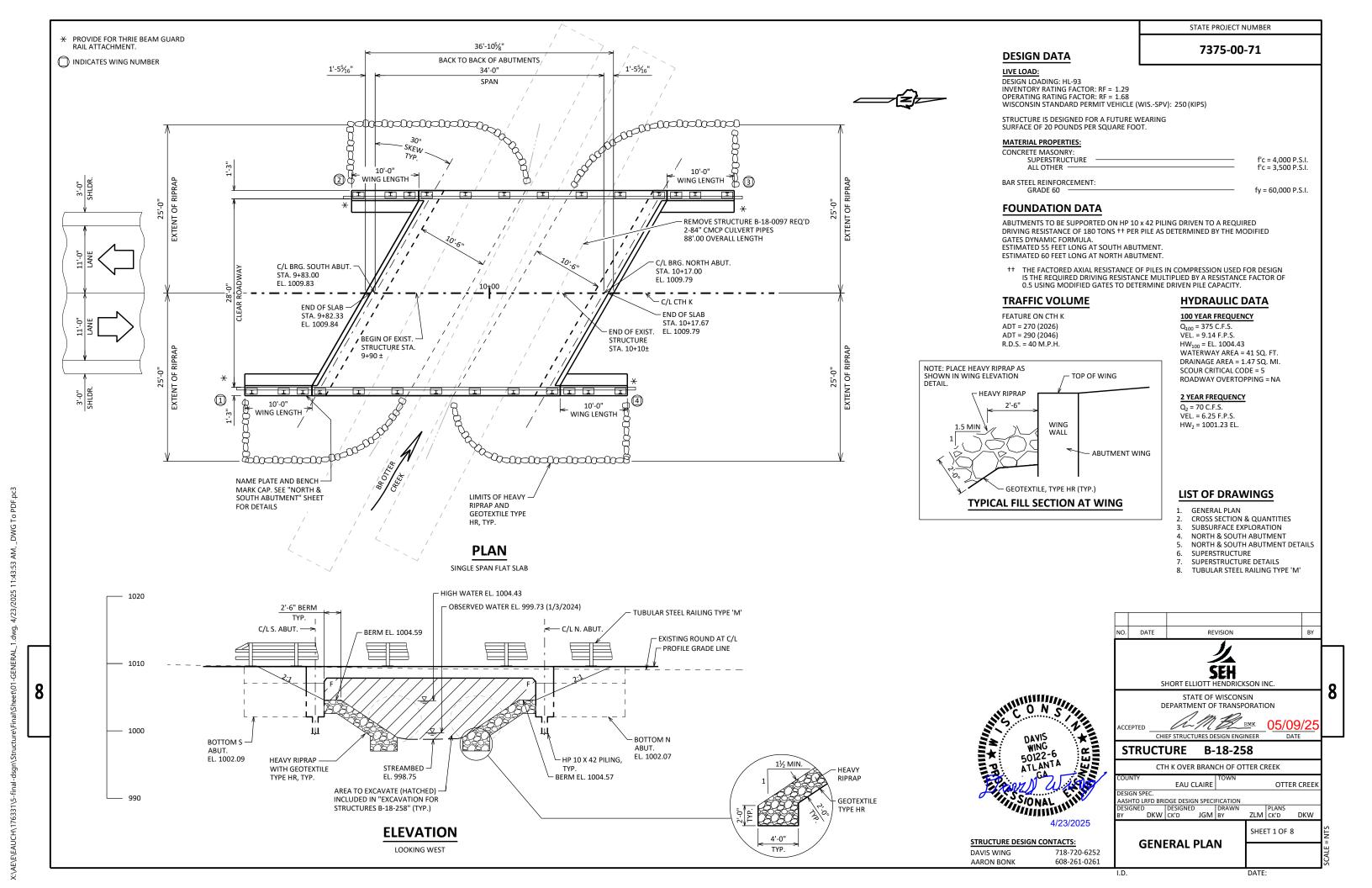


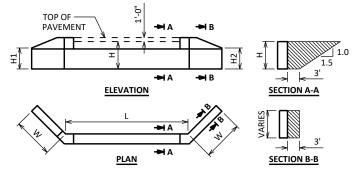
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PLOT DATE: 4-MARCH 2024 11:57

PLOT BY : dotc4c

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



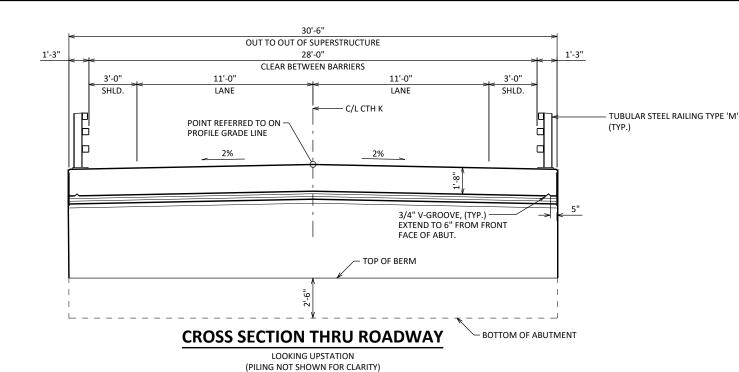


ABUTMENT BACKFILL DIAGRAM

- = ABUTMENT BODY LENGTH AT BACKFACE (FT)
- = AVERAGE ABUTMENT FILL HEIGHT (FT) = WING 1 HEIGHT AT TIP (FT)
- = WING 2 HEIGHT AT TIP (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)
- $V_{CY} = V_{CF}(EF)/27$
- $V_{TON} = V_{CY}(2.0)$

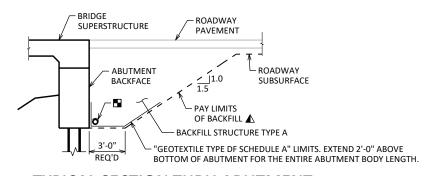
TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	UNIT	SUPER	WEST ABUT.	EAST ABUT.	TOTALS
١	203.0220	REMOVING STRUCTURE B-18-97	EACH				1
١	206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-18-258	EACH				1
١	210.1500	BACKFILL STRUCTURE TYPE A	TON		149	149	298
١	502.0100 CONCRETE MASONRY BRIDGES		CY	59.4	35.0	35.0	129.4
١	502.3200	PROTECTIVE SURFACE TREATMENT	SY	115			115
١	505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB		2220	2220	4440
1	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	15370	1290	1290	17950
ı	513.4061	RAILING TUBULAR TYPE M	LF	114			114
ı	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		9	9	18
ı	550.1100	PILING STEEL HP 10-INCH X 42 LB	LF		275	300	575
ı	606.0300	RIPRAP HEAVY	CY		60	60	120
4	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF		85	85	170
١	645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY		30	30	60
ı	645.0120	GEOTEXTILE TYPE HR	SY		100	100	200
ı							
١		NON-BID ITEMS					
		FILLER	SIZE				1/2", 3/4"
		NAMEPLATE	EACH				1
		BENCHMARK	EACH				1
- 1	1						



PROTECTIVE SURFACE TREATMENT LIMITS

PROTECTIVE SURFACE TREATMENT DETAILS



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.

GENERAL NOTES

7375-00-71

STATE PROJECT NUMBER

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-18-0258" 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

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.

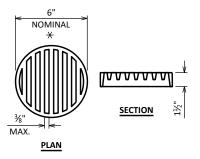
AT ABUTMENTS, CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

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	DESCRIPTION	ELEV.
BM1	11+85.13, 40.33' LT	SPIKE IN 12" TREE	1008.453'
ВМ2	9+77.13, 31.35' RT	TOP EYE BOLT ON CULVERT	1005.99'



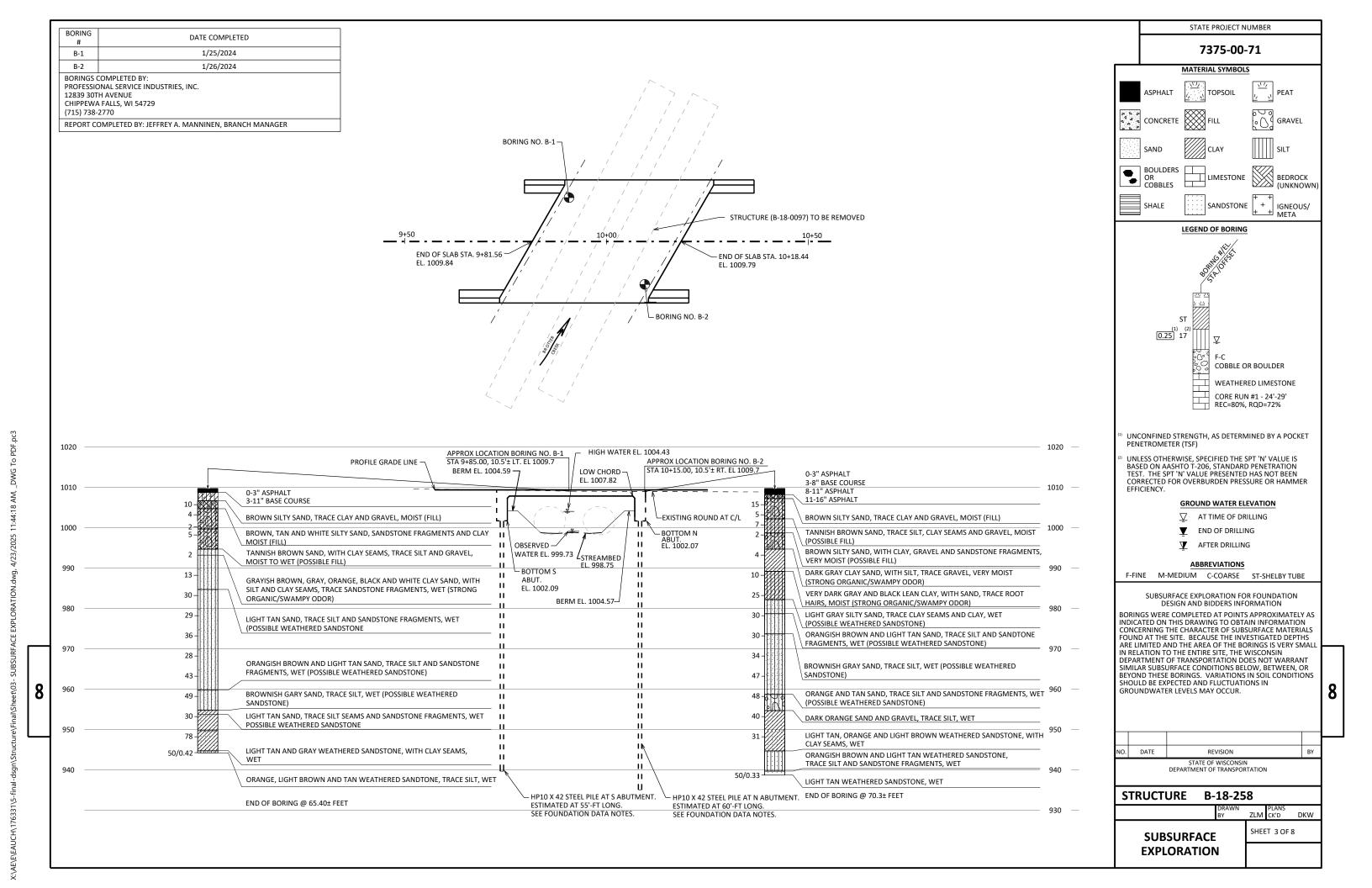
RODENT SHIELD DETAIL

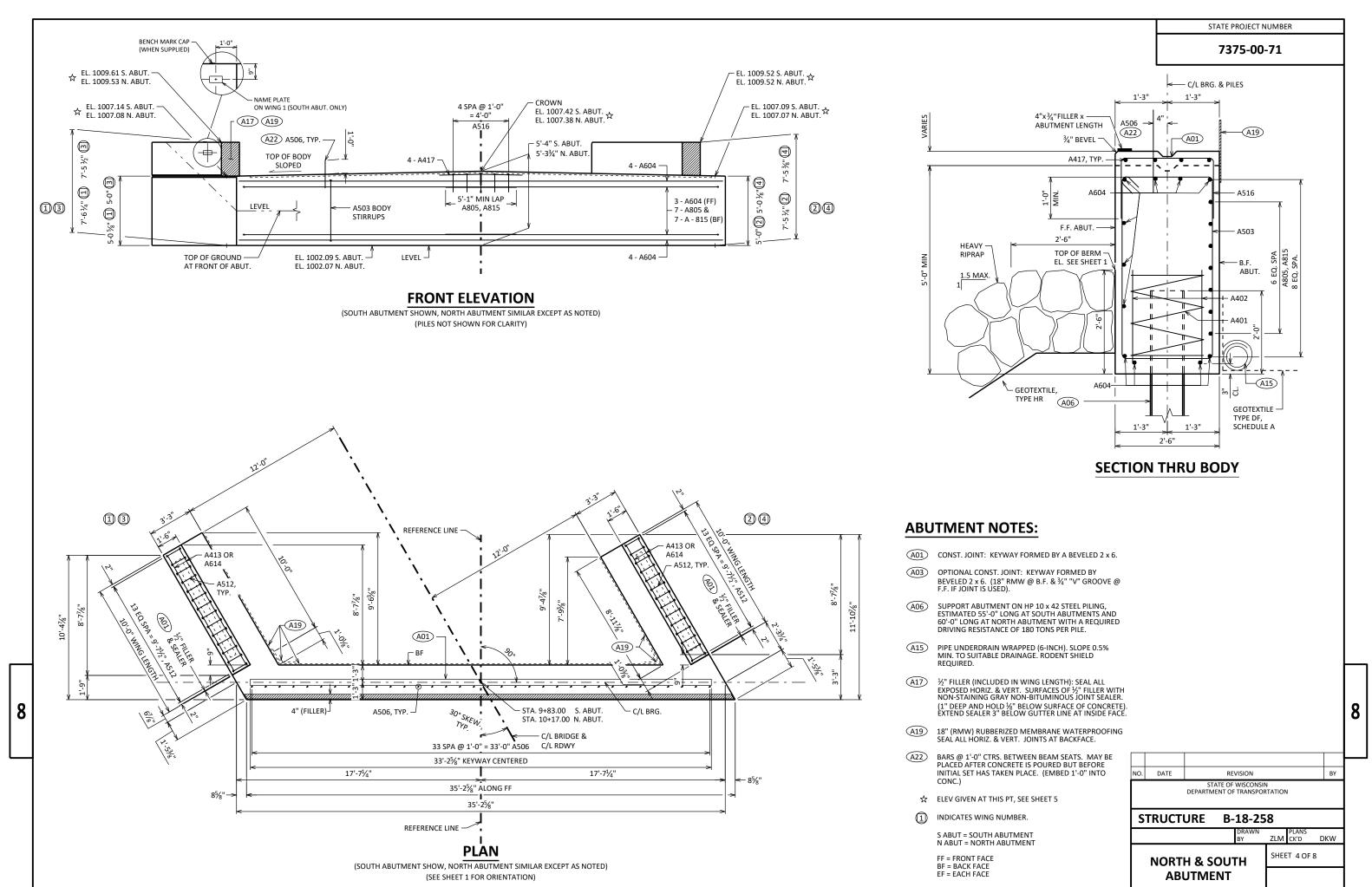
★ DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

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

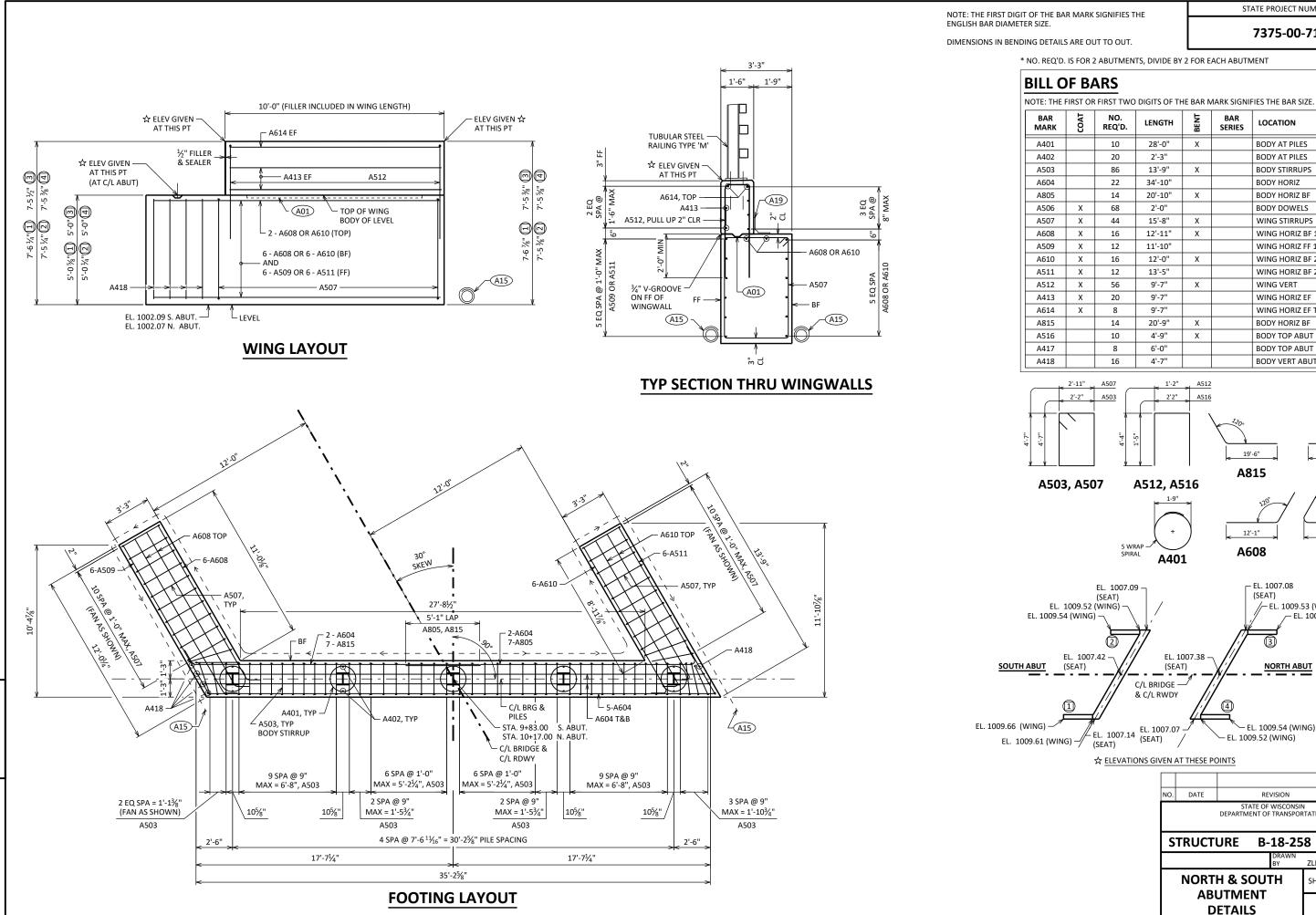
THE RODENT SHIFLD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X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

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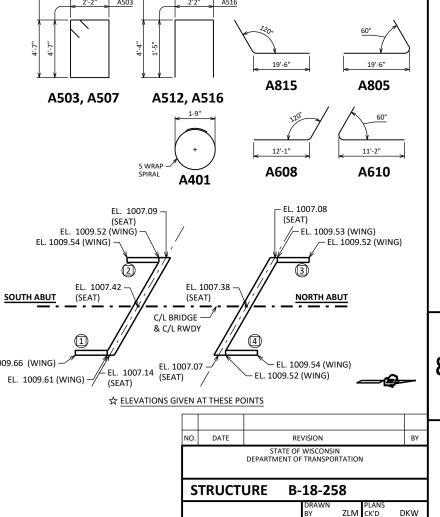
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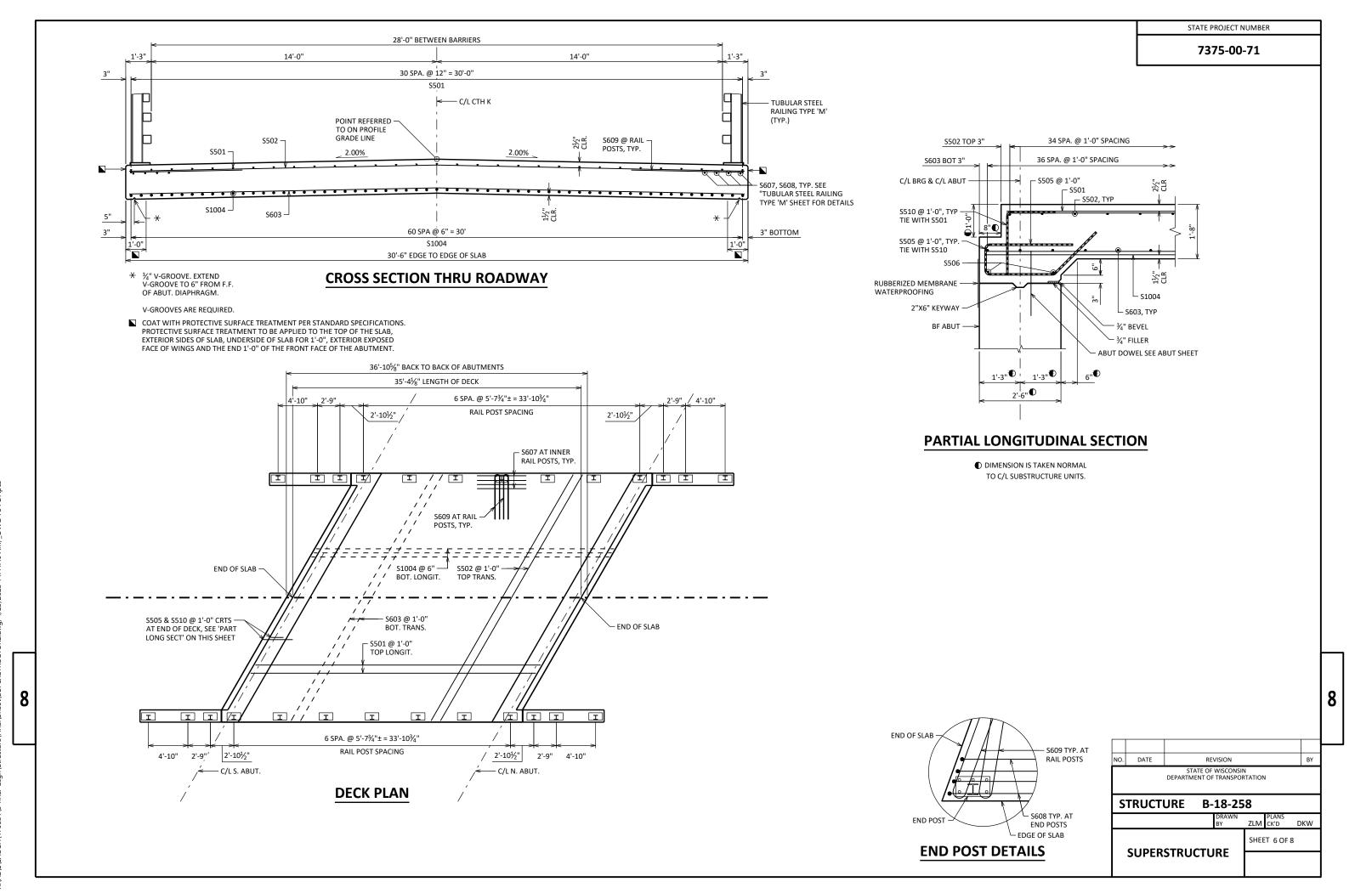
STATE PROJECT NUMBER

7375-00-71

BAR MARK	СОАТ	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A401		10	28'-0"	Х		BODY AT PILES
A402		20	2'-3"			BODY AT PILES
A503		86	13'-9"	Х		BODY STIRRUPS
A604		22	34'-10"			BODY HORIZ
A805		14	20'-10"	Х		BODY HORIZ BF
A506	Х	68	2'-0"			BODY DOWELS
A507	Х	44	15'-8"	Х		WING STIRRUPS
A608	Х	16	12'-11"	х		WING HORIZ BF 1 & 3 & TOP
A509	Х	12	11'-10"			WING HORIZ FF 1 & 3
A610	Х	16	12'-0"	Х		WING HORIZ BF 2 & 4 & TOP
A511	Х	12	13'-5"			WING HORIZ BF 2 & 4
A512	Х	56	9'-7"	х		WING VERT
A413	Х	20	9'-7"			WING HORIZ EF
A614	Х	8	9'-7"			WING HORIZ EF TOP
A815		14	20'-9"	Х		BODY HORIZ BF
A516		10	4'-9"	Х		BODY TOP ABUT REINF
A417		8	6'-0"			BODY TOP ABUT REINF
A418		16	4'-7"			BODY VERT ABUT ENDS

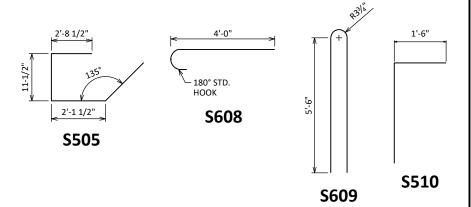


SHEET 5 OF 8



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34' SPAN – CAMBER

≪ SLAB THICKENESS

CAMBER AND SLAB THICKNESS DIAGRAM

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS. CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

PARAPETS, SIDEWALKS AND MEDIANS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED, EXCEPT FOR STAGED CONSTRUCTION.

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

TOP OF SLAB ELEVATION AT FINAL GRADE

SLAB THICKNESS LESS

PLUS

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

TOP OF SLAB ELEVATIONS

SPAN	LOCATION	C/L BRG. S. 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. N. ABUT.
	W. EDGE OF DECK	1009.51	1009.50	1009.50	1009.50	1009.49	1009.49	1009.49	1009.49	1009.49	1009.49	1009.49
1	CROWN OR R/L	1009.83	1009.83	1009.82	1009.81	1009.81	1009.80	1009.80	1009.80	1009.79	1009.79	1009.79
	E. EDGE OF DECK	1009.55	1009.54	1009.53	1009.53	1009.52	1009.51	1009.50	1009.50	1009.50	1009.49	1009.49

SURVEY TOP OF SLAB ELEVATIONS

LOCATION	ABUTMENT	5/10 PT.	ABUTMENT
W. EDGE OF SLAB			
CROWN OR R/L			
E. EDGE OF SLAB			

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 EDGES OF SLAB AND CROWN OR C/L. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

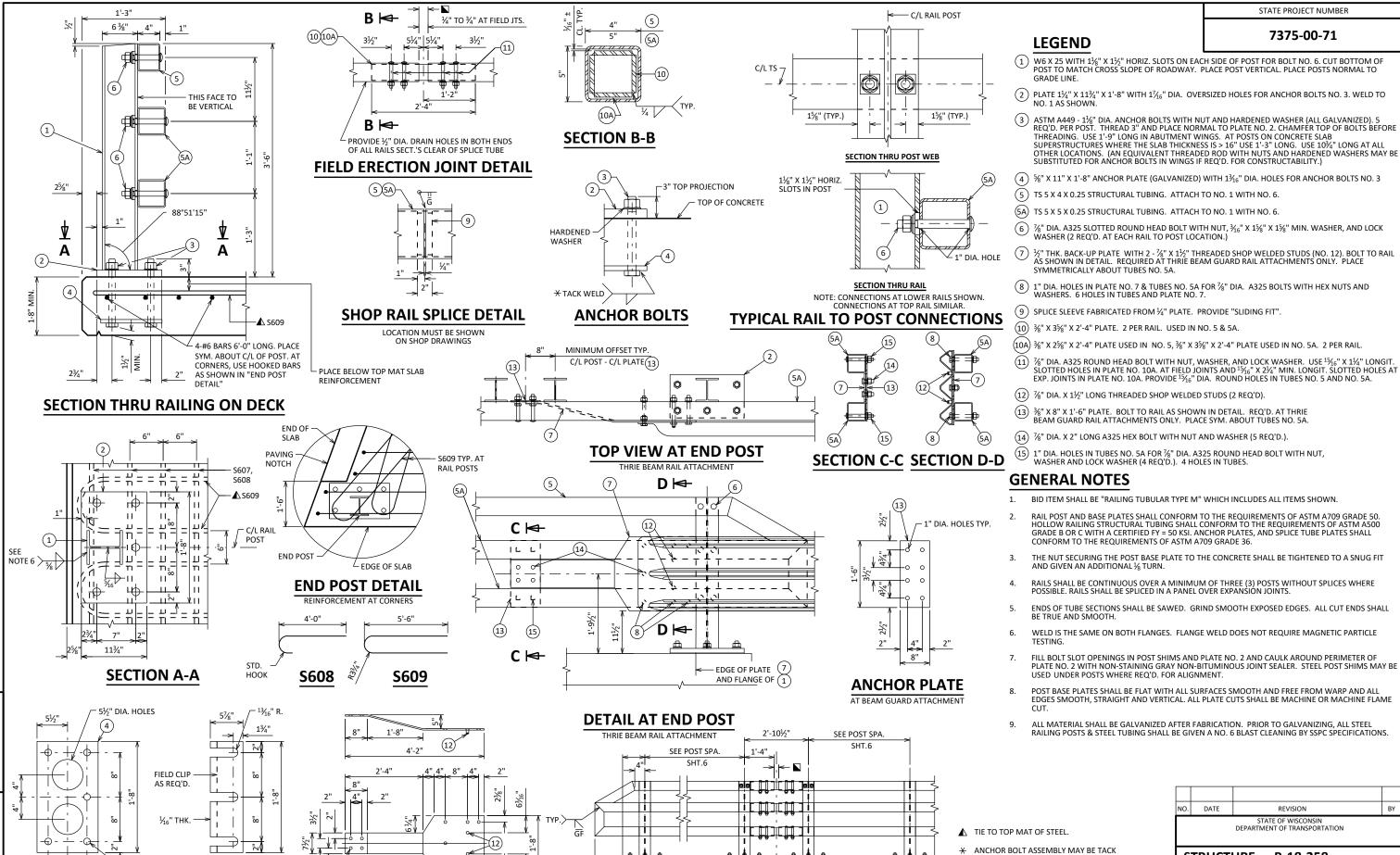
NOTES

FILL IN THE TABLE OF "SURVEY TOP OF SLAB ELEVATIONS" FO 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 APPROXIMATE 4'-0" CENTERS.

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

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		D	ETAILS				



ABUTMENT WINGWALI

PART ELEVATION OF RAILING

2'-3"

∠1" DIA

HOLES TYP.

BACK-UP PLATE DETAIL

1" DIA. HOLES FOR

3" DIA. HEX BOLTS

13/16" DIA. HOLES

ANCHOR BOLTS

POST SHIM

DETAIL

FOR 11/8" DIA.

ANCHOR PLATE

AT RAIL TO DECK CONNECTION

STRUCTURE B-18-258

ZLM CK'D SHEET 8 OF 8

TUBULAR STEEL RAILING TYPE M

FIELD AFTER THE ANCHOR PLATE IS PLACED. N RDWY. OPENING 1/4" TO 3/4" OPENING FOR A1 ABUTMENT.

WELDED, EITHER IN THE SHOP, OR IN THE

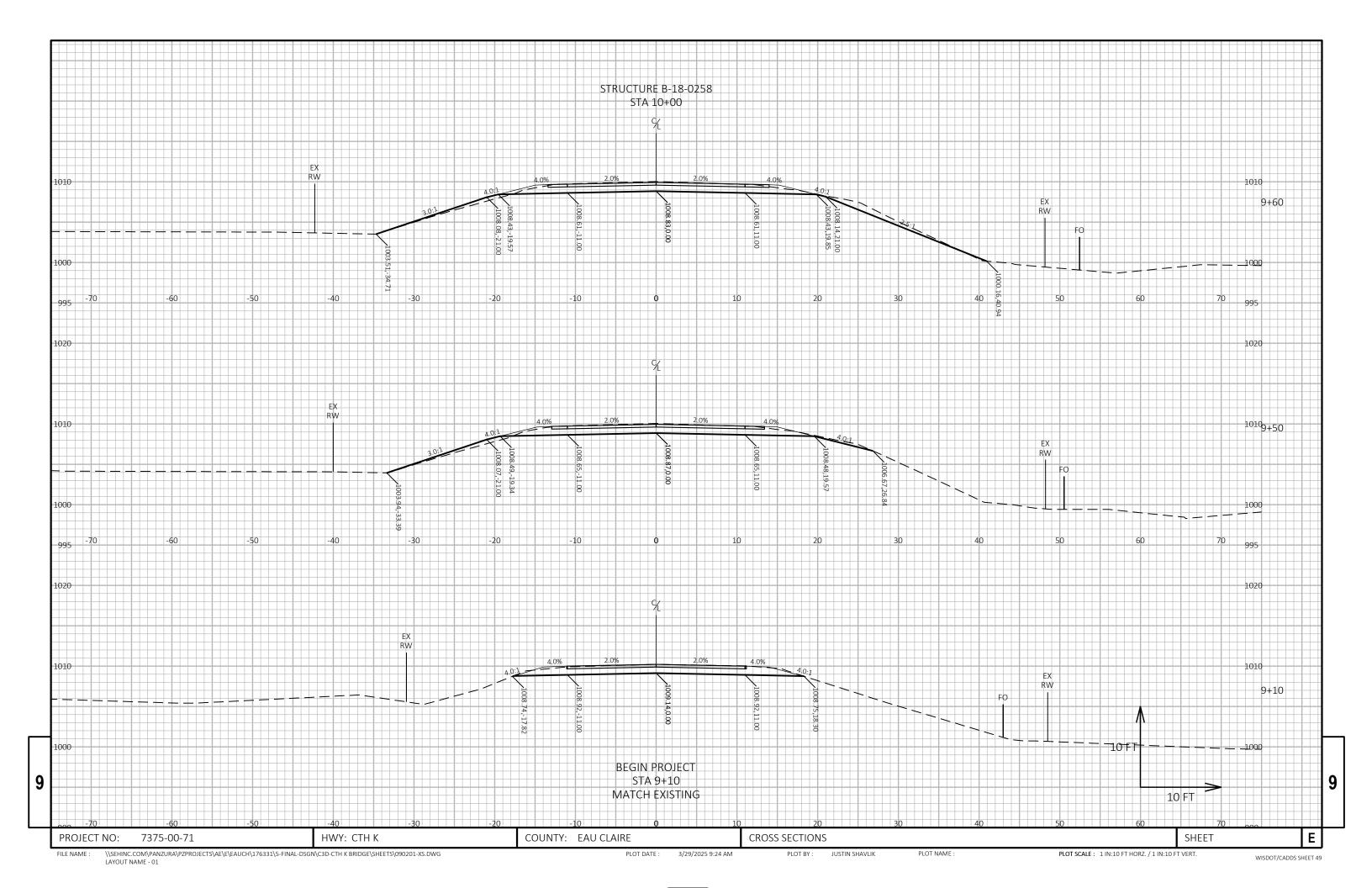
DIVISION - CTH K

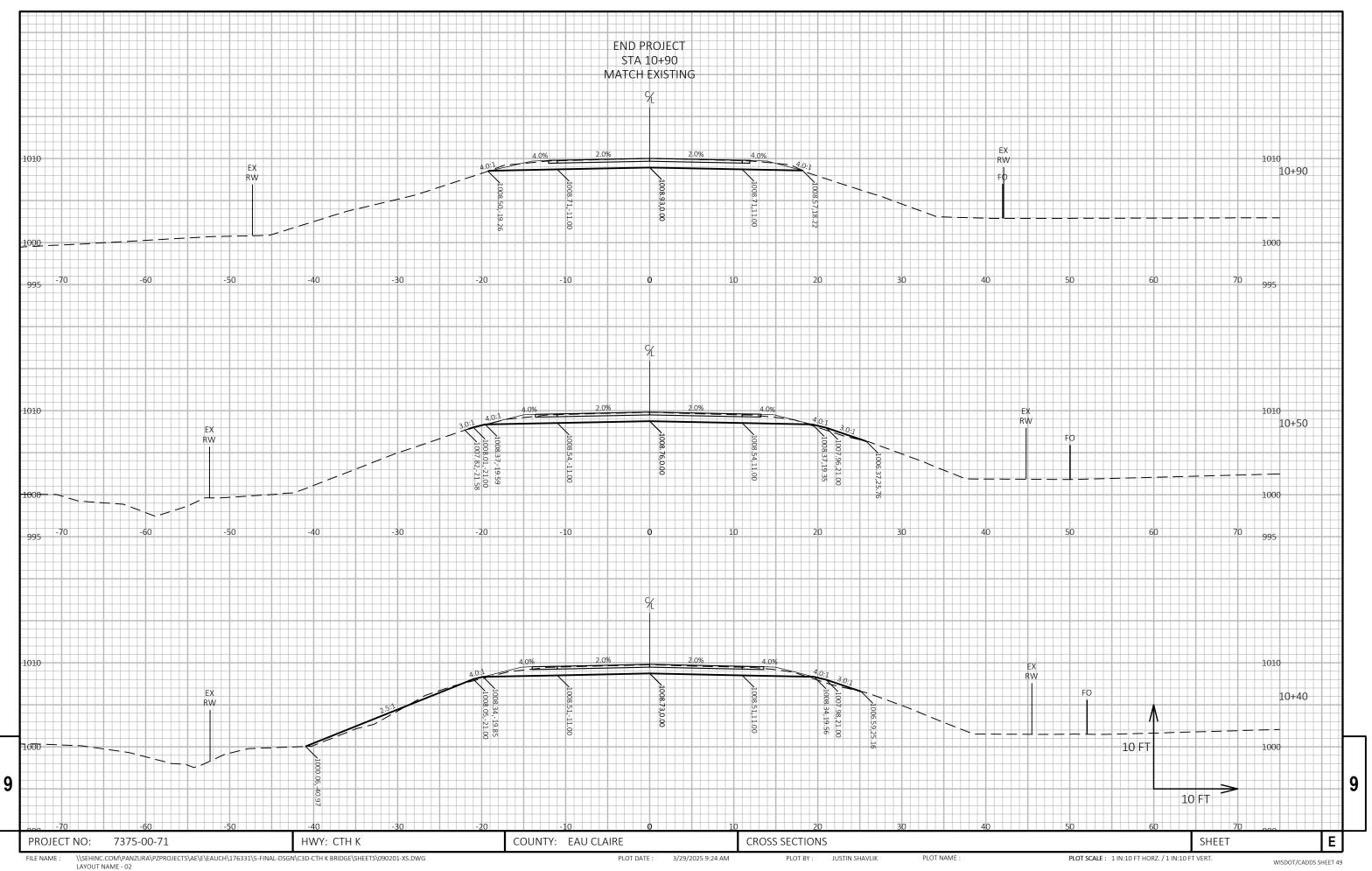
		AREA (SF)			INCREMENTAL VOL (CY)			CUMULATIVE VOL (CY)		
STATION DISTANCE		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	СИТ	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL	MASS ORDINATE
			TAVEIMENT MATERIAL		NOTE 1	NOTE 2	NOTE 3	NOTE 1	1.23	NOTE 4
9+10.00	0.00	33.62	8.25	0.00	0	0	0	0	0	0
9+50.00	40.00	37.74	8.25	4.19	53	12	3	53	4	37
9+60.12	10.12	44.04	8.25	3.82	15	3	1	68	5	48
9+60.12	0.00	0.00	0.00	0.00	0	0	0	68	5	48
10+39.88	0.00	0.00	0.00	0.00	0	0	0	68	5	48
10+39.88	0.00	33.88	8.25	5.70	0	0	0	68	5	48
10+50.00	10.12	33.14	8.25	1.41	13	3	1	81	6	57
10+90.00	40.00	34.69	8.25	0.00	50	12	1	131	8	93
				Column Totals	131	30	6			

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	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.

WISDOT/CADDS SHEET 49

COUNTY: EAU CLAIRE SHEET Ε PROJECT NO: 7375-00-71 HWY: CTH K EARTHWORK DATA FILE NAME: \SEHINC.COM\PANZURA\PZPROJECTS\AE\E\EAUCH\176331\S-FINAL-DSGN\C3D-CTH K BRIDGE\SHEETS\090101 EW.DWG LAYOUT NAME - 01 PLOT DATE : 3/29/2025 9:24 AM PLOT BY: JUSTIN SHAVLIK PLOT NAME : PLOT SCALE : 1" = 1'





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