AUGUST 2024 ORDER OF SHEETS

Section No. 1 Title

Section No. 2 Typical Sections and Details
Section No. 3 Estimate of Quantities
Section No. 3 Miscellaneous Quantities

Section No. 5 Plan and Profile (Includes Erosion Control Details)

Section No. 6 Standard Detail Drawings
Section No. 7 Sign Plates
Section No. 8 Structure Plans

Section No. 9 Computer Earthwork Data

TOTAL SHEETS = 40

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

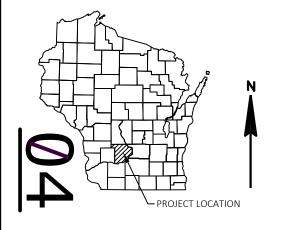
PLAN OF PROPOSED IMPROVEMENT

T OF FREEDOM, DIAMOND HILL ROAD

SEELEY CREEK BRIDGE, B-56-0243

LOCAL STREET SAUK COUNTY

5976-00-76



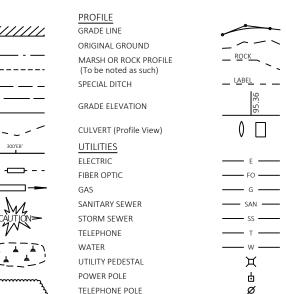
DESIGN DESIGNATION

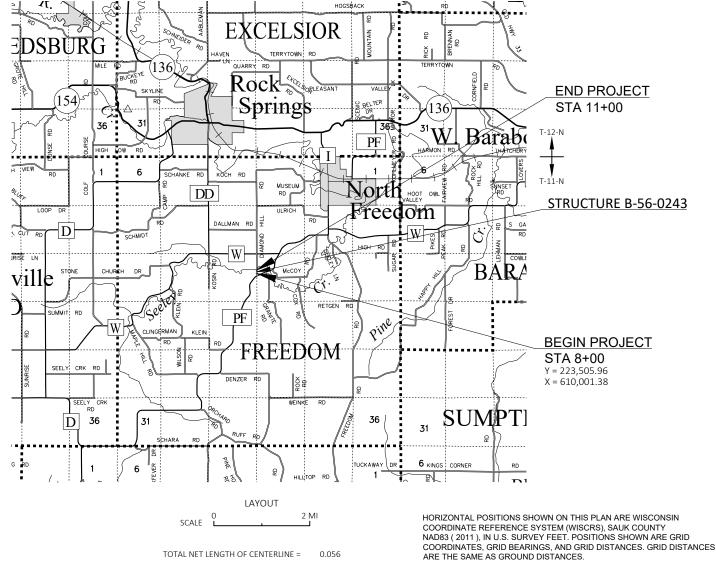
A.A.D.T. (2025) = 140 A.A.D.T. (2045) = 170 D.H.V. = 25 D.D. = 62/38 T. = 8.2% DESIGN SPEED = 30 MPH

CONVENTIONAL SYMBOLS

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

WOODED OR SHRUB AREA





ACCEPTED FOR TOWN OF FREEDOM 4/23/24 Dennis Rehr TOWN CHAIRPERSON

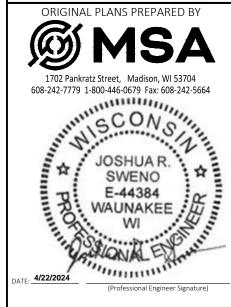
FEDERAL PROJECT

PROJECT
WISC 2024417

CONTRACT

STATE PROJECT

5976-00-76



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	MSA PROFESSIONAL SERVICES, INC
Designer	MSA PROFESSIONAL SERVICES, INC
Project Manager	ZACHARY PEARSON, P.E.
Regional Examiner	REGIONAL EXAMINER
Regional Supervisor	REGIONAL SUPERVISOR

APPROVED FOR THE DEPARTMENT 04/25/2024

DATE: _____ (Sign

ELEVATIONS ARE REFERENCED TO NAVD 88 (2018). GPS DERIVED ELEVATIONS ARE BASED ON GEOID G18-WI.

FILE NAME : G:\13\13867\13867007\CADD\SHEETSPLAN\010101-TI.DWG

PLOT DATE: 1/31/2024 4:00 PM

PLOT I

CONNOR GIRTEN F

PLOT NAME:

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 AREA

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

WETLANDS ARE PRESENT. AREAS OUTSIDE THE SLOPE INTERCEPTS SHALL NOT BE DISTURBED

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS AS NEEDED. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

ASPHALTIC SURFACE QUANTITIES WERE CALCULATED USING 112 LB/SY/IN.

RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP										
	А						С		D			
	SLOPE RANGE (PERCENT)			SL	SLOPE RANGE (PERCENT) SLOPE RANGE (PERCENT) SLO		SLOF	PPE 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 .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	.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 = 0.58 ACRES

LAYOUT NAME - 020101-gn

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.49 ACRES

MSA DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC. ATTN: JOSH SWENO, P.E. 1702 PANKRATZ STREET MADISON, WI 53704 PHONE: (608) 355-8852

EMAIL: JSWENO@MSA-PS.COM

DNR LIAISON

DEPARTMENT OF NATURAL RESOURCES ATTN.: ANDY BARTA 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711 PHONE: (608) 235-2955

EMAIL: ANDREW.BARTA@WISCONSIN.GOV

TOWN CONTACT

TOWN OF FREEDOM ATTN: DENNIS REHR P.O. BOX 176 **ROCK SPRINGS, WI 53961** PHONE: (608) 393-4165

EMAIL: DREHR.FREEDOM.TOWNOF@GMAIL.COM

UTILITIES

SAUK COUNTY ATTN: IAN CRAMMOND **510 BROADWAY STREET** BARABOO, WI 53913 PHONE: (608) 355-4415

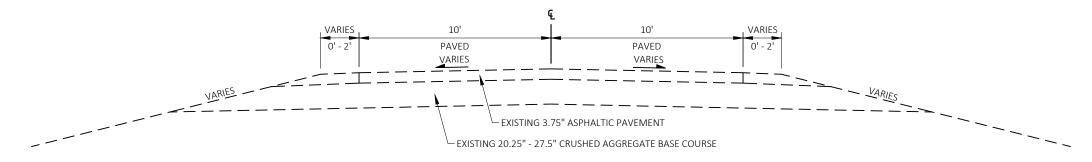
EMAIL: IAN.CRAMMOND@SAUKCOUNTYWI.COM

ALLIANT ENERGY ATTN: MICHAEL LONG 520 COMMERCE AVENUE BARABOO, WI 53913 PHONE: (608) 356-0608 EMAIL: LONG3990@GMAIL.COM *DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS



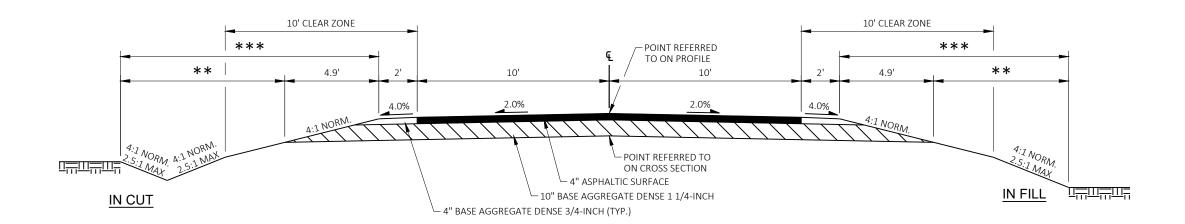
PROJECT NO: 5976-00-76 HWY: LOCAL STREET COUNTY: SAUK GENERAL NOTES & UTILITIES SHEET G:\13\13867\13867007\CADD\SHEETSPLAN\020101-GN.DWG PLOT DATE : 2/5/2024 8:05 AM PLOT BY: CONNOR GIRTEN PLOT NAME : PLOT SCALE : FILE NAME : Custom WISDOT/CADDS SHEET 42





EXISTING TYPICAL SECTION

STA 8+00 - STA 11+00



FINISHED TYPICAL SECTION

STA 8+00 - STA 11+00

** LIMITS OF SALVAGED TOPSOIL AND EROSION MAT URBAN CLASS I, TYPE B

*** LIMITS OF SEEDING MIXTURE #20, SEEDING TEMPORARY, & FERTILIZER TYPE B

PROJECT NO: 5976-00-76 HWY: LOCAL STREET COUNTY: SAUK

FILE NAME: G:\langle 13\langle 13\langle

	-76

					5976-00-76	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0105	Clearing	STA	1.000	1.000	
0004	201.0205	Grubbing	STA	1.000	1.000	
0006	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-56-146	EACH	1.000	1.000	
8000	205.0100	Excavation Common	CY	224.000	224.000	
0010	206.1001	Excavation for Structures Bridges (structure) 01. B-56-243	EACH	1.000	1.000	
0012	210.1500	Backfill Structure Type A	TON	380.000	380.000	
0014	213.0100	Finishing Roadway (project) 01. 5976-00-76	EACH	1.000	1.000	
0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	29.000	29.000	
0018	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	467.000	467.000	
0020	455.0605	Tack Coat	GAL	29.000	29.000	
0022	465.0105	Asphaltic Surface	TON	128.000	128.000	
0024	502.0100	Concrete Masonry Bridges	CY	174.000	174.000	
0026	502.3200	Protective Surface Treatment	SY	216.000	216.000	
0028	505.0400	Bar Steel Reinforcement HS Structures	LB	4,380.000	4,380.000	
0030	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	22,310.000	22,310.000	
0032	513.4061	Railing Tubular Type M	LF	105.000	105.000	
0034	516.0500	Rubberized Membrane Waterproofing	SY	12.000	12.000	
0036	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	1,960.000	1,960.000	
0038	606.0300	Riprap Heavy	CY	105.000	105.000	
0040	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	170.000	170.000	
0042	618.0100	Maintenance and Repair of Haul Roads (project) 01. 5976-00-76	EACH	1.000	1.000	
0044	619.1000	Mobilization	EACH	1.000	1.000	
0046	624.0100	Water	MGAL	11.000	11.000	
0048	625.0500	Salvaged Topsoil	SY	621.000	621.000	
0050	628.1504	Silt Fence	LF	1,090.000	1,090.000	
0052	628.1520	Silt Fence Maintenance	LF	1,090.000	1,090.000	
0054	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000	
0056	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0058	628.2008	Erosion Mat Urban Class I Type B	SY	3,005.000	3,005.000	
0060	628.6005	Turbidity Barriers	SY	390.000	390.000	
0062	629.0210	Fertilizer Type B	CWT	0.500	0.500	
0064	630.0120	Seeding Mixture No. 20	LB	17.000	17.000	
0066	630.0200	Seeding Temporary	LB	9.000	9.000	
0068	630.0500	Seed Water	MGAL	5.000	5.000	
0070	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0072	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0074		Removing Small Sign Supports	EACH	4.000	4.000	
0076	642.5001	Field Office Type B	EACH	1.000	1.000	
0078	643.0420	Traffic Control Barricades Type III	DAY	1,472.000	1,472.000	
0800	643.0705	Traffic Control Warning Lights Type A	DAY	2,282.000	2,282.000	
0082	643.0900	Traffic Control Signs	DAY	1,062.000	1,062.000	
0084	643.5000	Traffic Control	EACH	1.000	1.000	
0086	645.0111	Geotextile Type DF Schedule A	SY	60.000	60.000	
8800	645.0120	Geotextile Type HR	SY	220.000	220.000	
0090	650.4500	Construction Staking Subgrade	LF	250.000	250.000	
0092	650.5000	Construction Staking Base	LF	250.000	250.000	
0094	650.6501	Construction Staking Structure Layout (structure) 01. B-56-0243	EACH	1.000	1.000	
0096	650.9911	Construction Staking Supplemental Control (project) 01. 5976-00-76	EACH	1.000	1.000	
0098	650.9920	Construction Staking Slope Stakes	LF	250.000	250.000	

06/11/2024 09:28:35

Page	2	

5976	-00-76

Line	Item	Item Description	Unit	Total	Qty
0100	690.0150	Sawing Asphalt	LF	40.000	40.000
0102	715.0502	Incentive Strength Concrete Structures	DOL	1,044.000	1,044.000
0104	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 10+00	EACH	1.000	1.000
0106	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0108	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
0110	SPV.0090	Special 01, Flashing Stainless Steel	LF	91.000	91.000

Estimate Of Quantities

3

EXCAVATION COMMON

CLEARING AND GRUBBING

					201.0105	201.0205
					CLEARING	GRUBBING
CATEGORY	STATION	TO	STATION	LOCATION	STA	STA
0010	9+25	-	10+25	MAINLINE	1	1
•				TOTAL 0010	1	1

205.0100

					EXCAVATION			
					COMMON	FILL	EXPANDED FILL	WASTE
CATEGORY	STATION	TO	STATION	LOCATION	CY (3)	CY (1)	CY (2)	CY
0010	8+00	-	9+75	MAINLINE	166	30	39	127
0010	10+25	-	11+00	MAINLINE	58	49	63	-5
_				TOTAL 0010	224			

- (1) NOT A BID ITEM FOR INFORMATIONAL PURPOSES ONLY.
- (2) FILL EXPANSION 30%
- (3) EXISTING PAVEMENT IS INCLUDED IN EXCAVATION COMMON TOTALS. SEE EARTHWORK TABLE.

BASE AGGREGATE

					305.0110	305.0120 BASE	624.0100
					BASE	AGGREGATE	
					AGGREGATE	DENSE 1 1/4-	
					DENSE 3/4-INCH	INCH	WATER
CATEGORY	STATION	TO	STATION	LOCATION	TON	TON	MGAL
0010	8+00	-	9+74.71	MAINLINE	21	330	8
0010	10+25.30	-	11+00	MAINLINE	8	137	3
•				TOTAL 0010	29	467	11

ASPHALTIC SURFACE

					455.0605	465.0105
						ASPHALTIC
					TACK COAT	SURFACE
CATEGORY	STATION	TO	STATION	LOCATION	GAL	TON
						_
0010	8+00	-	9+75	MAINLINE	20	89
0010	10+25	-	11+00	MAINLINE	9	39
				TOTAL 0010	29	128

RESTORATION ITEMS

				625.0500	628.2008 EROSION MAT	629.0210	630.0120	630.0200	630.0500
				SALVAGED	URBAN CLASS I	FERTILIZER TYPE	SEEDING	SEEDING	
				TOPSOIL	TYPE B	В	MIXTURE NO. 20	TEMPORARY	SEED WATER
CATEGORY	STATION TO	STATION	LOCATION	SY	SY	CWT	LB	LB	MGAL
0010	8+00 -	9+59	LT	170	727	0.1	5	2	1
0010	8+00 -	9+70	RT	182	776	0.1	5	3	1
0010	10+32 -	11+00	LT	111	691	0.1	3	2	1
0010	10+43 -	11+00	RT	77	419	0.1	2	1	1
0010	UNDISTR	IBUTED		81	392	0.1	2	1	1
			TOTAL 0010	621	3,005	0.5	17	9	5

PROJECT NO: 5976-00-76 HWY: LOCAL STREET	COUNTY: SAUK	MISCELLANEOUS QUANTITIES	SHEET: E
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3

EROSION CONTROL ITEMS

					628.1504	628.1520	628.1905	628.1910 MOBILIZATIONS	628.6005
							MOBILIZATIONS	EMERGENCY	
						SILT FENCE	EROSION	EROSION	TURBIDITY
					SILT FENCE	MAINTENANCE	CONTROL	CONTROL	BARRIERS
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	EACH	EACH	SY
0010	8+00	-	9+69	MAINLINE, LT & RT	363	363	-	-	-
0010	9+63	-	-	PIER, EXISTING BRIDGE	-	-	-	-	150
0010	10+29	-	-	PIER, EXISTING BRIDGE	-	-	-	-	162
0010	10+37	-	11+00	MAINLINE, LT & RT	508	508	-	-	-
0010	-	-	-	UNDISTRIBUTED	219	219	3	2	78
				TOTAL 0010	1,090	1,090	3	2	390

<u>SIGNS</u>

			634.0612 POSTS WOOD	637.2230	638.3000 REMOVING	
			4X6-INCH X 12- FT	SIGNS TYPE II REFLECTIVE F	SMALL SIGN SUPPORTS	
CATEGORY	STATION	LOCATION	EACH	SF	EACH	REMARKS
0010	9+69	MAINLINE, LT	1	3	1	W5-52L
0010	9+76	MAINLINE, RT	1	3	1	W5-52R
0010	10+24	MAINLINE, LT	1	3	1	W5-52R
0010	10+31	MAINLINE, RT	1	3	1	W5-52L
		,	_		_	

TRAFFIC CONTROL

			TRAFFIC CONTROL	643.0420 TRAFFIC CONTROL	TRAFFIC CONTROL	643.0705 TRAFFIC CONTROL	TRAFFIC	643.0900
			BARRICADES	BARRICADES	WARNING	WARNING	CONTROL	TRAFFIC
			TYPEIII	TYPEIII	LIGHTS TYPE A	LIGHTS TYPE A	SIGNS	CONTROL SIGNS
CATEGORY	LOCATION	DAYS	EACH	DAY	EACH	DAY	EACH	DAY
0010	JUNCTION WITH CTH PF	74	2	148	4	296	4	296
0010	BEGIN PROJECT	74	7	518	10	740	2	148
0010	END PROJECT	74	7	518	10	740	4	296
0010	JUNCTION WITH CTH W	74	2	148	4	296	3	222
0010	UNDISTRIBUTED			140		210		100
		TOTAL 0010		1,472		2,282		1,062

CONSTRUCTION STAKING

					650.4500 CONSTRUCTION STAKING SUBGRADE	650.5000 CONSTRUCTION STAKING BASE	650.9920 CONSTRUCTION STAKING SLOPE STAKES
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	LF
0010	8+00	-	9+75	MAINLINE	175	175	175
0010	10+25	-	11+00	MAINLINE	75	75	75
				TOTAL 0010	250	250	250

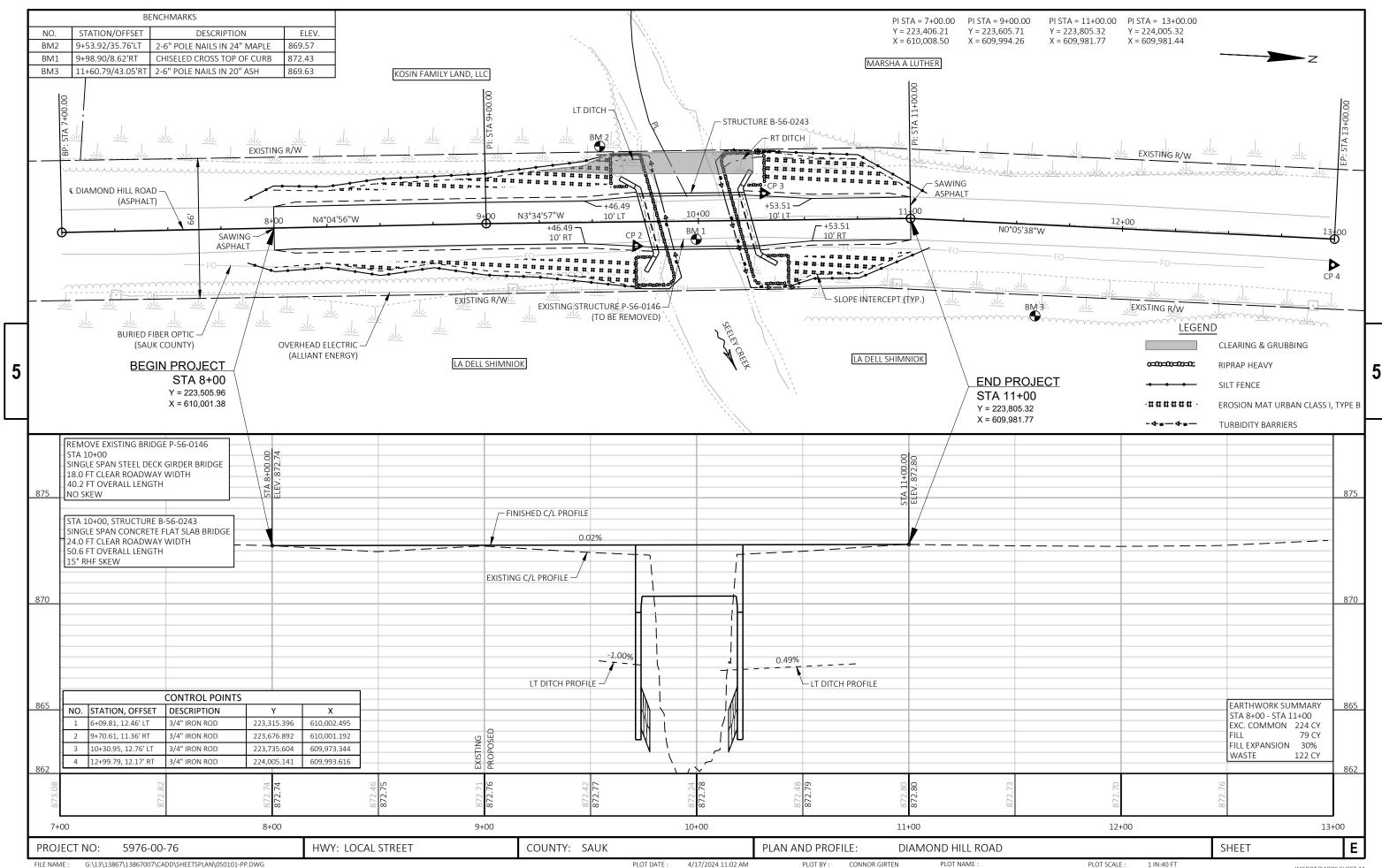
SAWING ASPHALT

			690.0150 SAWING ASPHALT
CATEGORY	STATION	LOCATION	LF
0010	8+00	MAINLINE	20
0010	11+00	MAINLINE	20
		TOTAL 0010	40

BIRD DETERRENT SYSTEM

			999.2000.S.01
			INSTALLING AND
			MAINTAINING
			BIRD DETERRENT
			SYSTEM STATION
			10+00
CATEGORY	STATION	LOCATION	EACH
0010	10+00	P-56-146	1
		TOTAL 0010	1

PROJECT NO: 5976-00-76 HWY: LOCAL STREET COUNTY: SAUK MISCELLANEOUS QUANTITIES SHEET: **E**



Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
13C19-03	HMA LONGITUDINAL JOINTS
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

6

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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

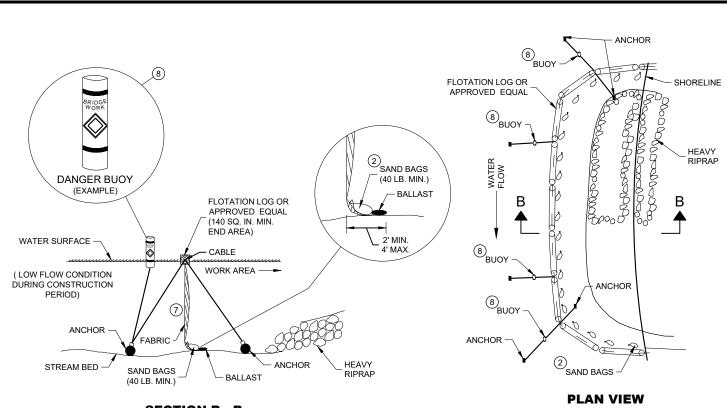
(WHEN REQUIRED BY THE ENGINEER)



6

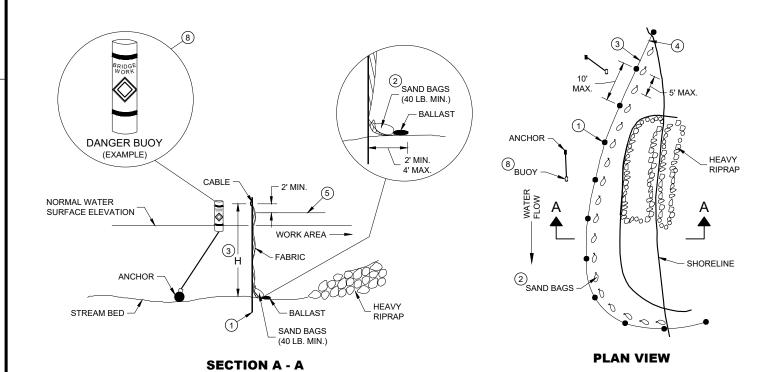
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D.D. 8 E 9-6



SECTION B - B

TURBIDITY BARRIER - FLOAT ALTERNATIVE CAUTION - SEE NOTE 6



TURBIDITY BARRIER - STANDARD POST INSTALLATION

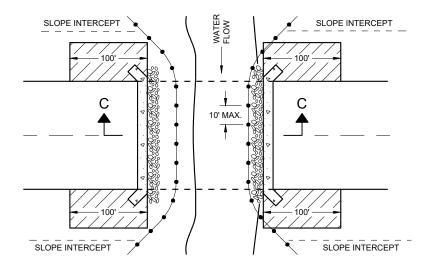
TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

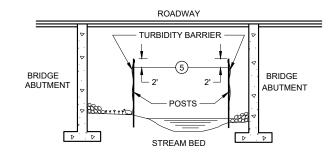
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

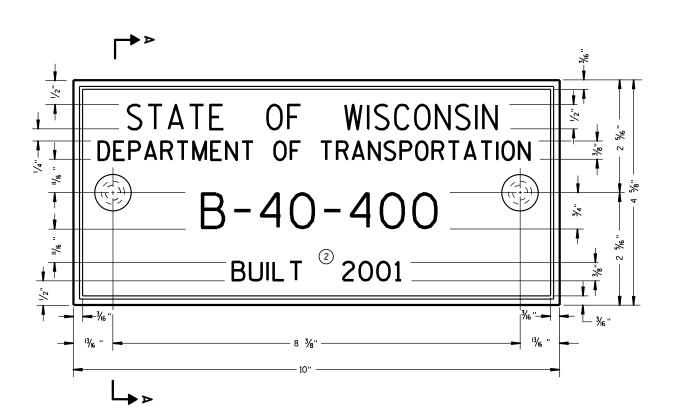
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 APPROVED
 /S/ Beth Cannestra

 6/4/02
 /S/ Beth Cannestra

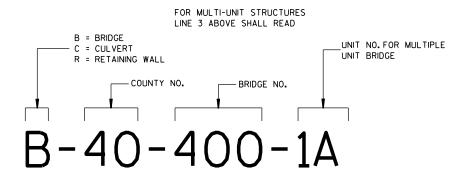
 DATE
 CHIEF ROADWAY DEVELOPMENT ENGINEER





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



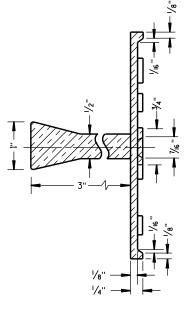
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

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

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

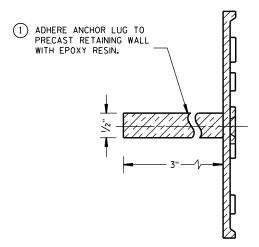
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

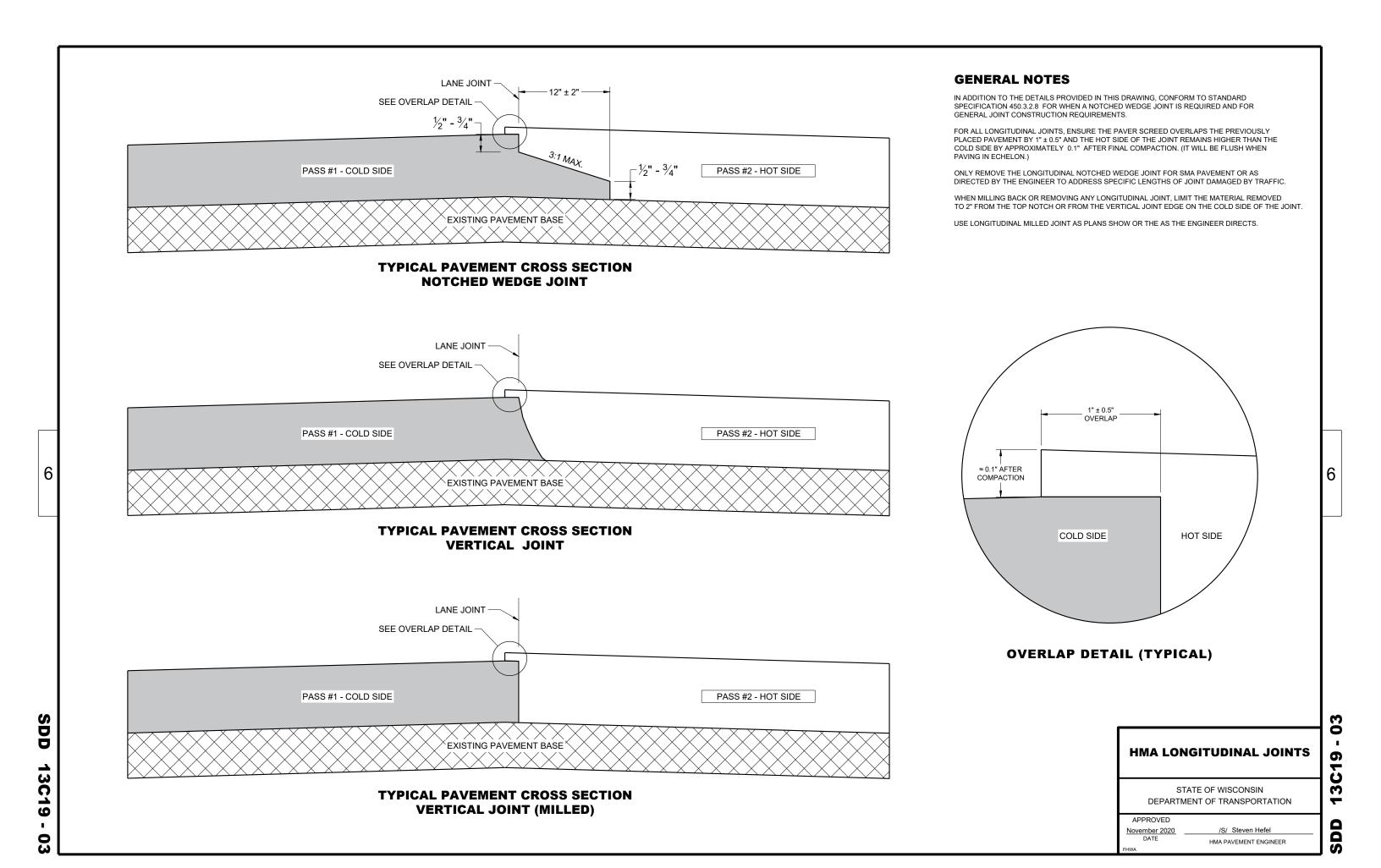
APPROVED

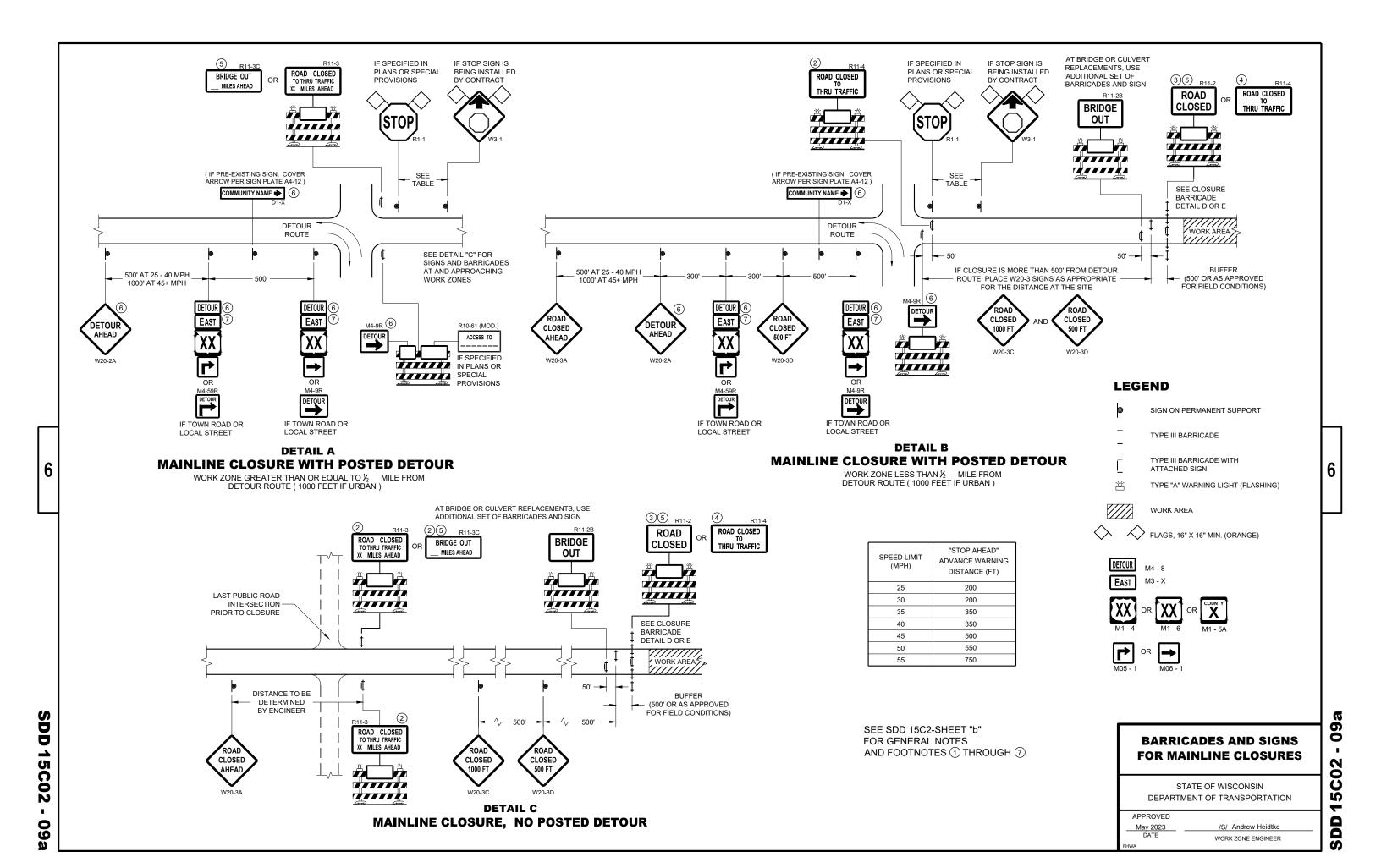
3/26/IO /S/ Scot Becker

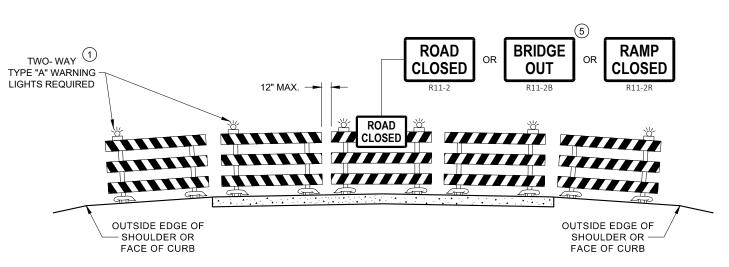
DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

.D.D. 12 A

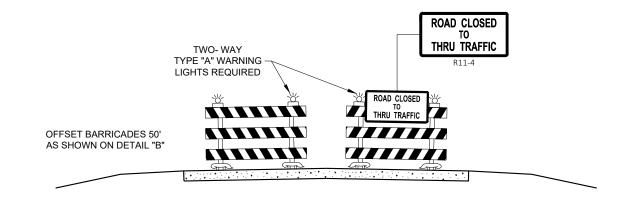
3-10







DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL **APPROACH VIEW**

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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"

- TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT **SPACING**
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE <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
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR **VARIOUS CLOSURES**

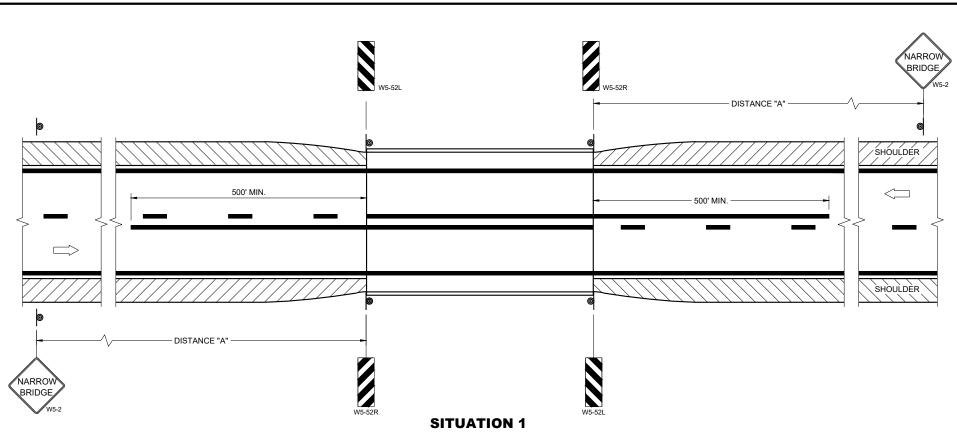
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE WORK ZONE ENGINEER

Ò 0 Ŋ



SDD 15C06-12



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

OR SHOULDER SHOULDER WS-52R WS-52L

SITUATION 2

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

SDD

15C06-12

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

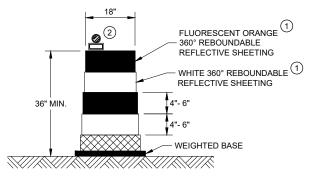
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

SDD 15C11

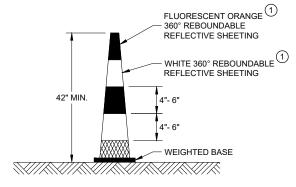
GENERAL NOTES

- (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.



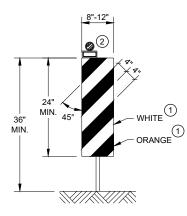
DRUM

BALLAST WIDTHS RANGE FROM 24"-36"



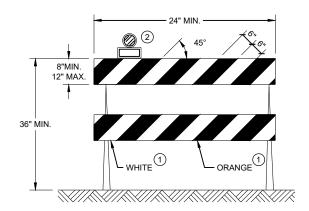
42" CONE

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



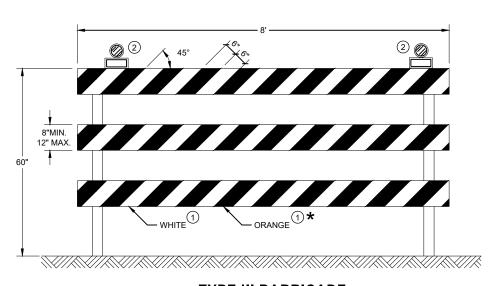
VERTICAL PANEL

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.

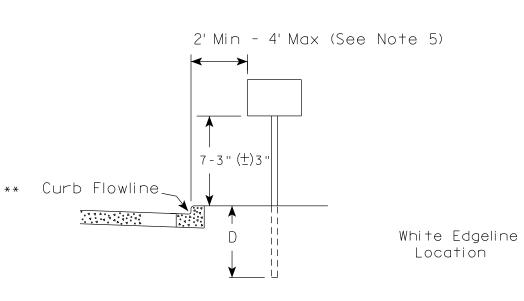
* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

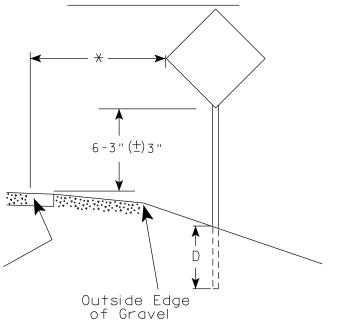
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 15C

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





RURAL AREA (See Note 2)



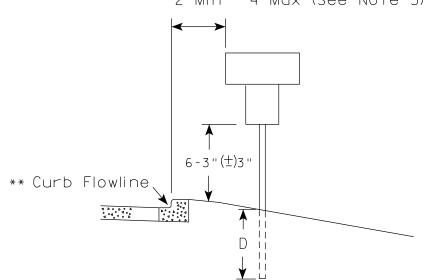
GENERAL NOTES

- 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

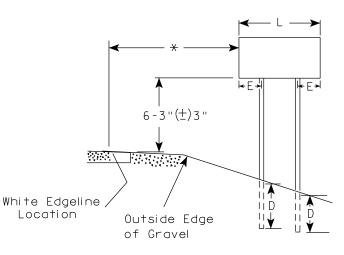
PLOT NAME :

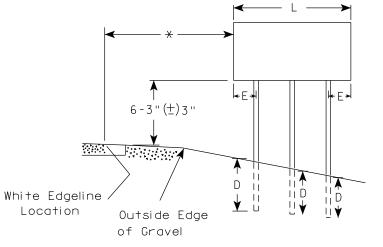
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

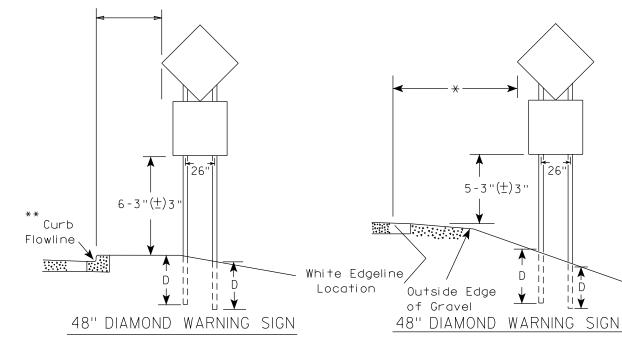
APPROVED

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	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

CUEET NO.

SHEET NO:

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

PROJECT NO:

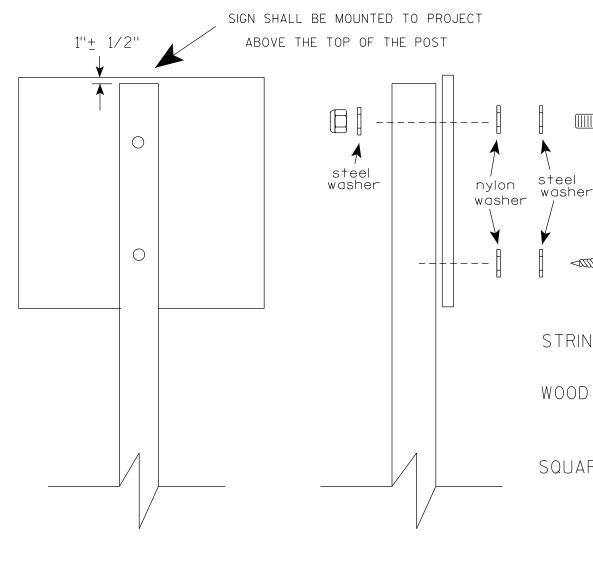
COUNTY:

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 - 1/32 " (6605-9-6) BULB-TITE. TRI-FOLD. ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

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

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

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

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

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

PROJECT 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:

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

Manher R

APPROVED

DATE 4/19/2022 PLATE NO. A5-10.3

SHEET NO:

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

PROJECT NO:

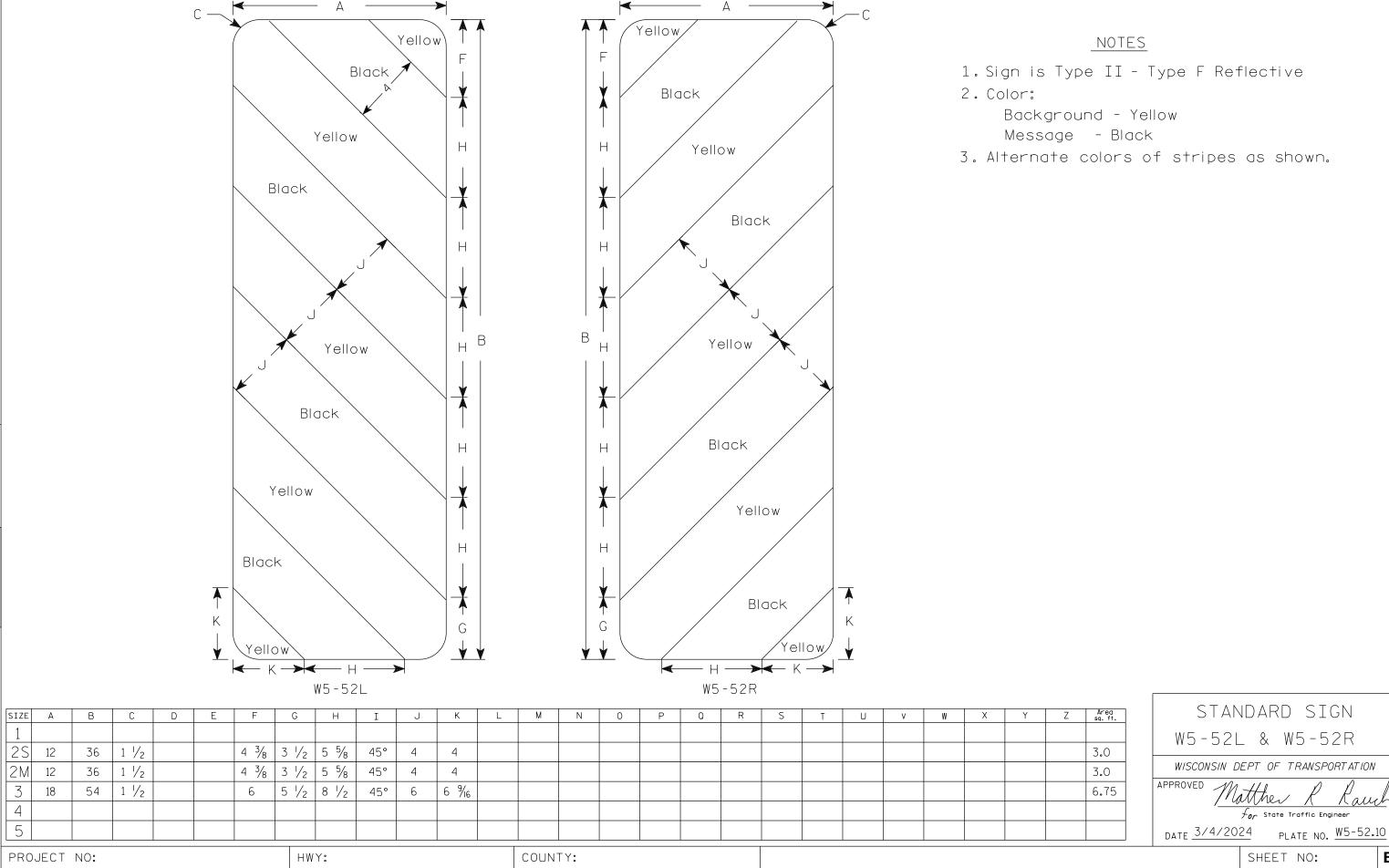
PLOT DATE: 19-APRIL 2022 11:55

SIGN

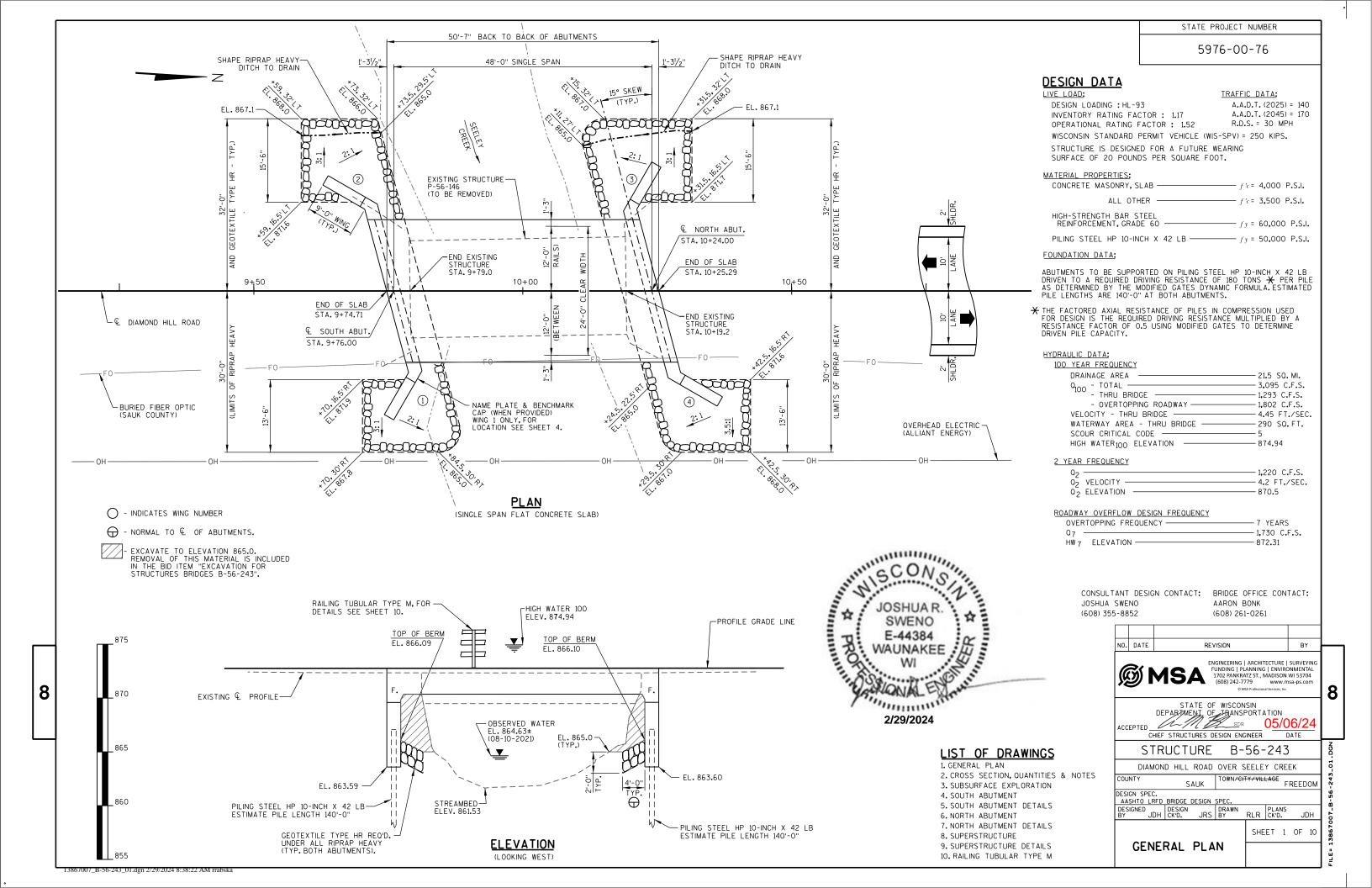
PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε



PLOT DATE: 4-MARCH 2024 11:57 PLOT NAME : PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42 PLOT BY : dotc4c



5976-00-76

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST DIGIT OF A THREE DIGIT BAR MARK AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFY THE BAR SIZE.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE LIMITS SHOWN ON SHEET 1 AND ON THE ABUTMENT SHEETS OR AS DIRECTED BY THE ENGINEER.

THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-56-243"

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

THIS STRUCTURE WILL REPLACE EXISTING BRIDGE, P-56-146, A 40.2 FT. LONG SINGLE SPAN STEEL DECK GIRDER BRIDGE ON CONCRETE AND MASONRY ABUTMENTS.

(B)- BACKFILL PAY LIMITS, BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

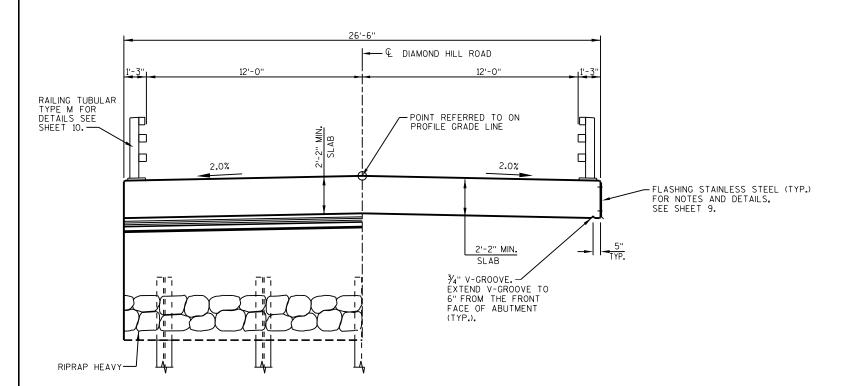
DO NOT PLACE FILL ABOVE 3'-O" FROM THE BOTTOM OF THE ABUTMENT UNTIL THE SUPERSTRUCTURE IS IN PLACE.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-O" ABOVE BOTTOM OF ABUTMENT.

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

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP AND EDGES OF SLAB. TO THE OUTSIDE 1'-O" OF THE UNDERSIDE OF SLAB, TO THE TOPS OF WINGS, TO THE EXPOSED FRONT FACES OF WINGS, AND TO THE END 1'-O" OF THE ABUTMENT BODY FRONT FACE.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO USGS NAVD 88 (2018 ADJUSTED). BENCHMARK ELEVATIONS AT THE PROJECT SITE WERE SET BY THE CONSULTANT USING GPS TECHNOLOGY.

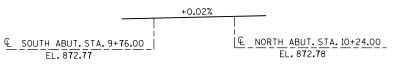


AT ABUTMENTS

IN SPAN

CROSS SECTION THRU BRIDGE

(LOOKING NORTH)

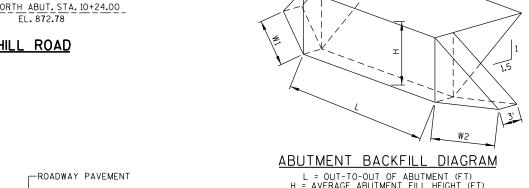


PROFILE GRADE LINE - DIAMOND HILL ROAD

ABUTMENT-

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	SOUTH ABUT.	NORTH ABUT.	SUPER	TOTAL
203.0260.01	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-56-146	EACH	-	-	-	1
206.1001.01	EXCAVATION FOR STRUCTURES BRIDGES B-56-243	EACH	-	-	-	1
B - 210.1500	BACKFILL STRUCTURE TYPE A	TON	190	190	-	380
502.0100	CONCRETE MASONRY BRIDGES	CY	30.8	30.8	111.7	174
502.3200	PROTECTIVE SURFACE TREATMENT	SY	18	18	180	216
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2,190	2,190	-	4,380
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,515	1,515	19,280	22,310
513.4061	RAILING TUBULAR TYPE M	LF	-	-	105	105
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	6	6	-	12
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	980	980	-	1,960
606.0300	RI PRAP HEAVY	CY	50	55	-	105
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	85	85	-	170
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	30	30	-	60
645.0120	GEOTEXTILE TYPE HR	SY	105	115	-	220
SPV.0090.01	FLASHING STAINLESS STEEL	LF	-	-	91	91
	NON-BID ITEMS					
	PREFORMED FILLER	SIZE				1/2" & 3/4"



L = OUT-TO-OUT OF ABUTMENT (FT)
H = AVERAGE ABUTMENT FILL HEIGHT (FT)
W1 = WING 1 LENGTH (FT) W2 = WING 2 LENGTH (FT) $V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H) + (0.5)(H)(W1+W2)(3.0')$ $V_{TON} = V_{CF}(2.0)/27$

PAY LIMITS OF BACKFILL (B) REVISION BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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STRUCTURE B-56-243

DRAWN BY RLR CROSS SECTION, SHEET 2 OF QUANTITIES

& NOTES

STRUCTURE BACKFILL DETAIL

3'-0"

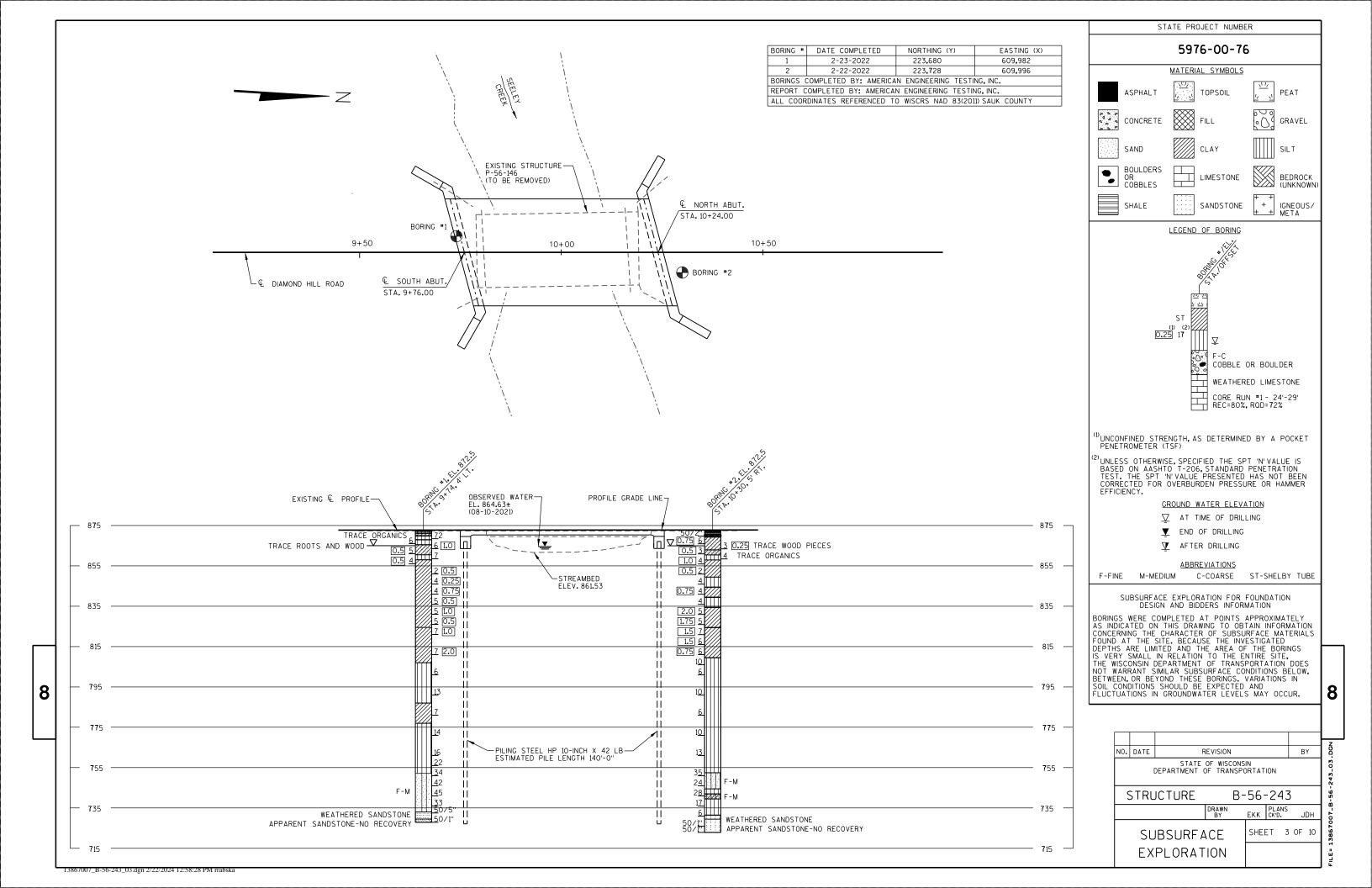
SUBGRADE

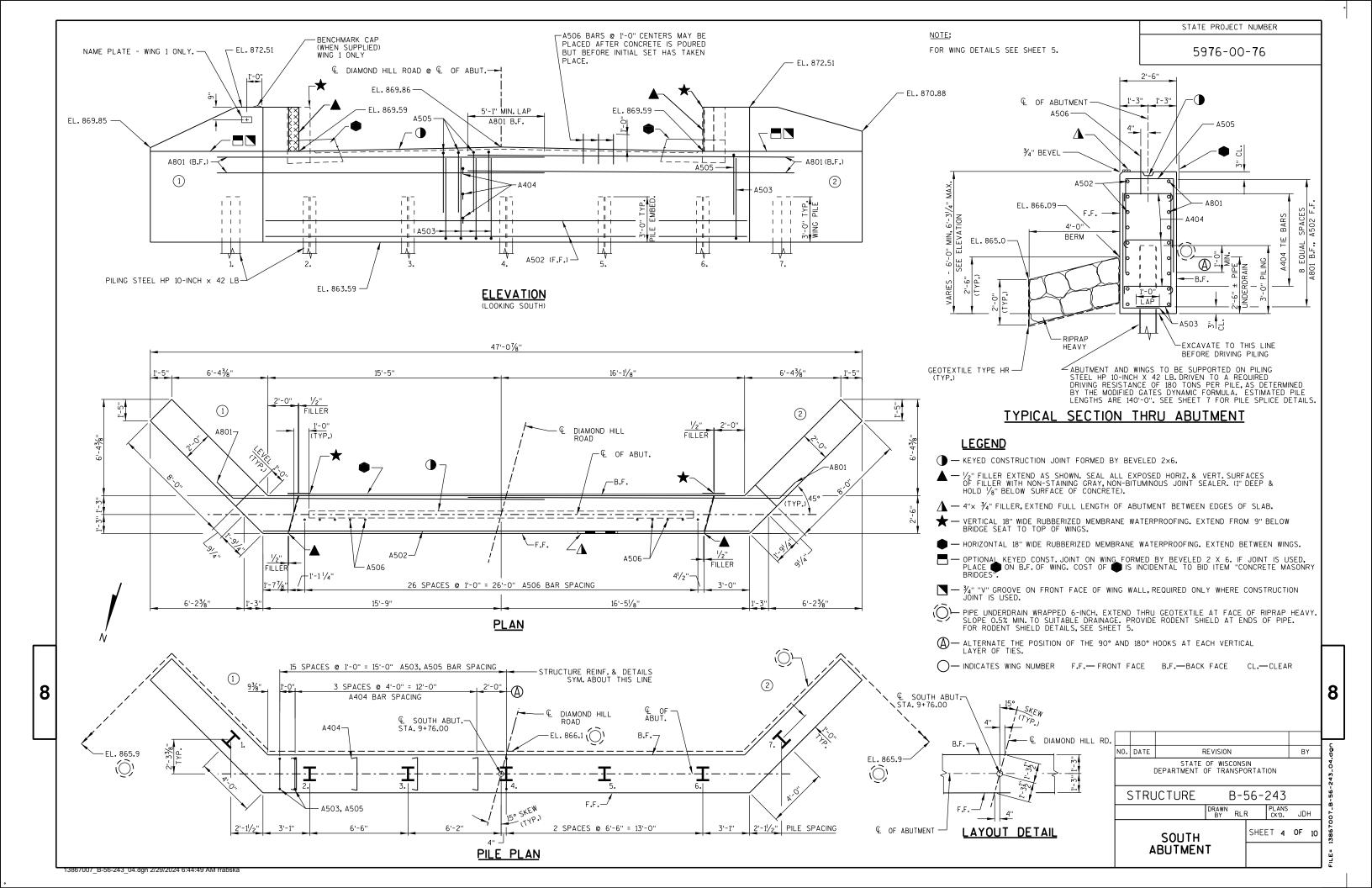
1.5

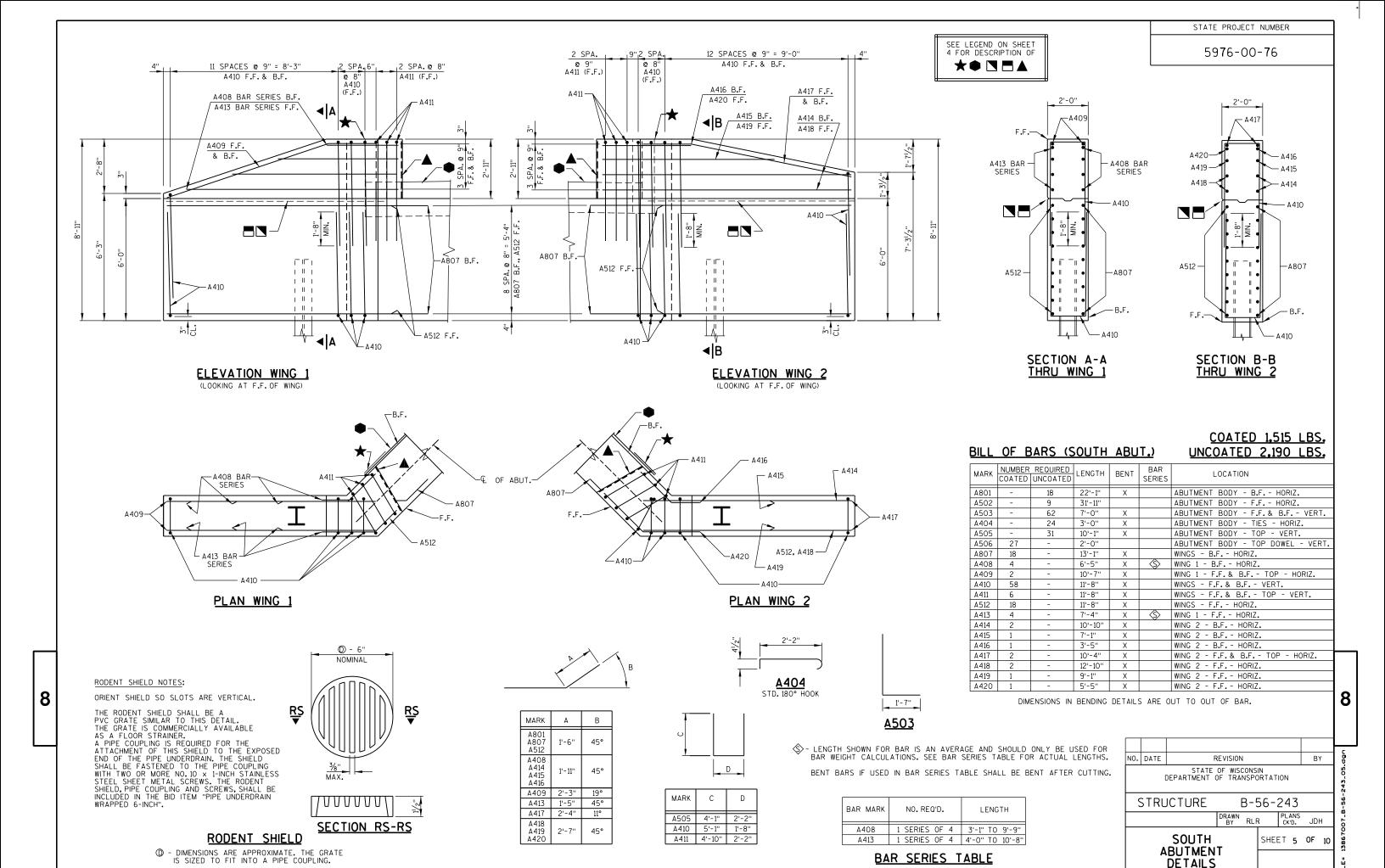
-BACKFILL STRUCTURE TYPE A

"GEOTEXTILE TYPE DF SCHEDULE A" LIMITS EXTEND 2'-O" ABOVE BOTTOM OF ABUTMENT FOR THE ENTIRE ABUTMENT BODY LENGTH.

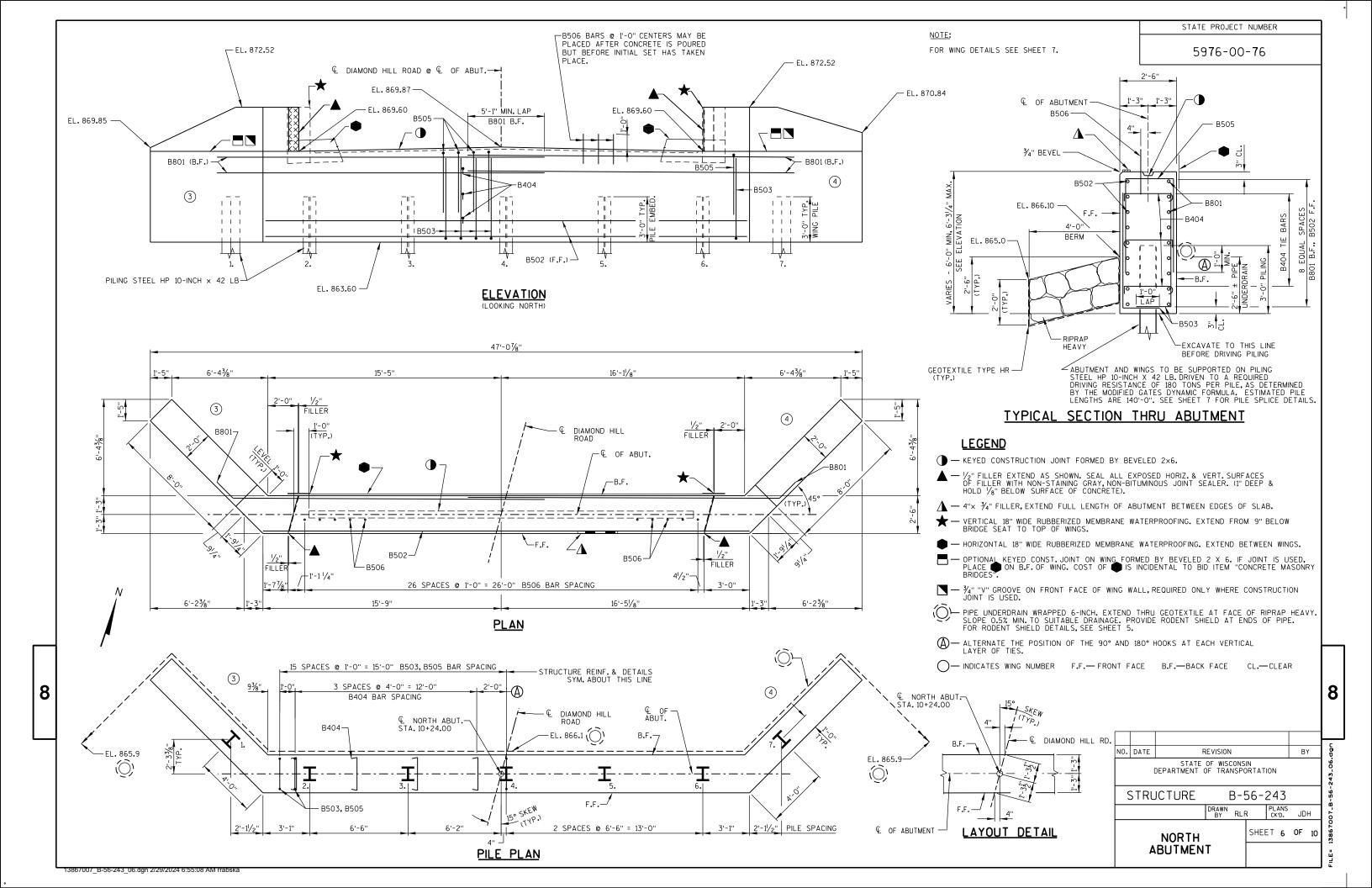
PIPE UNDERDRAIN WRAPPED 6-INCH

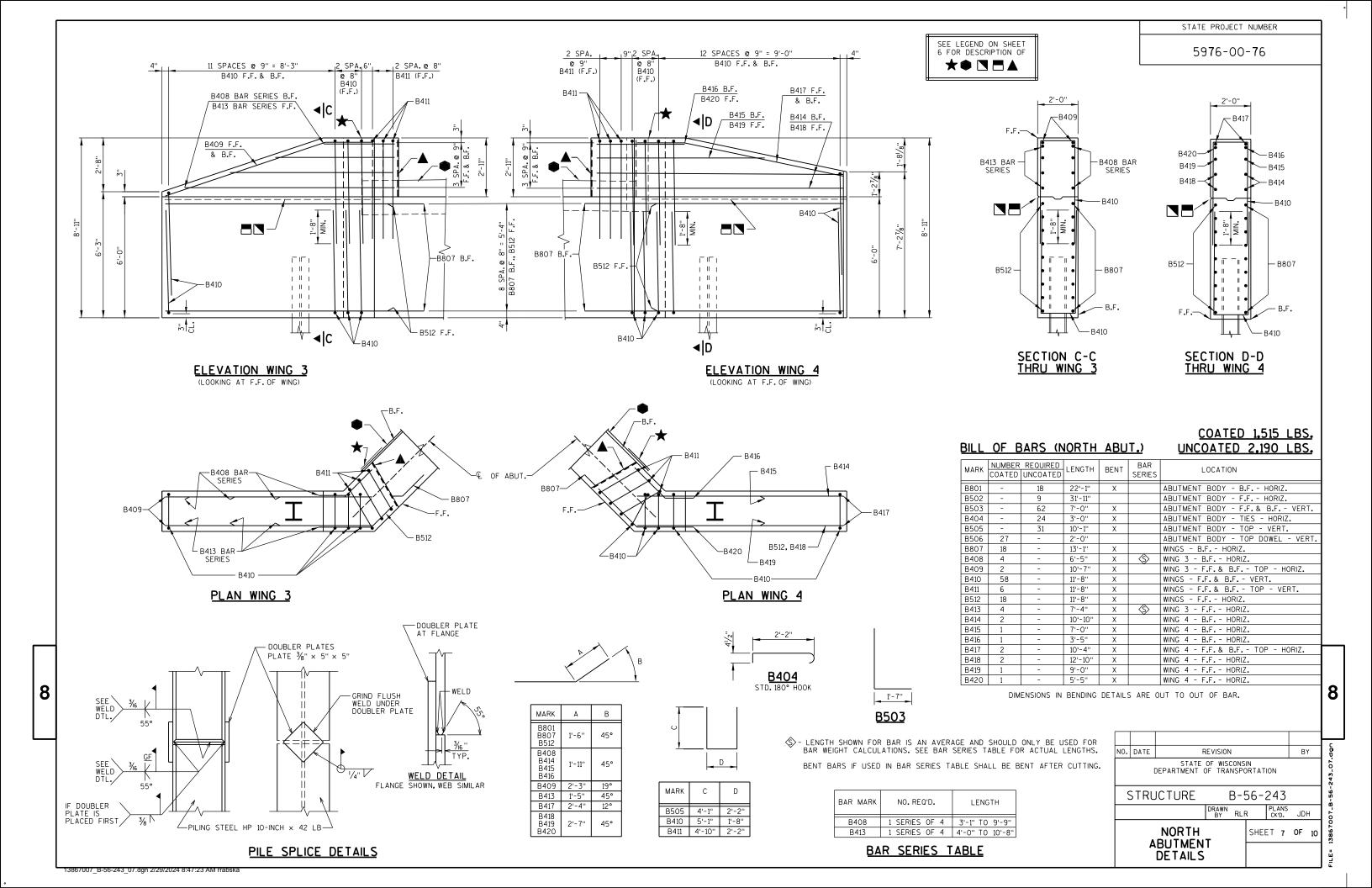


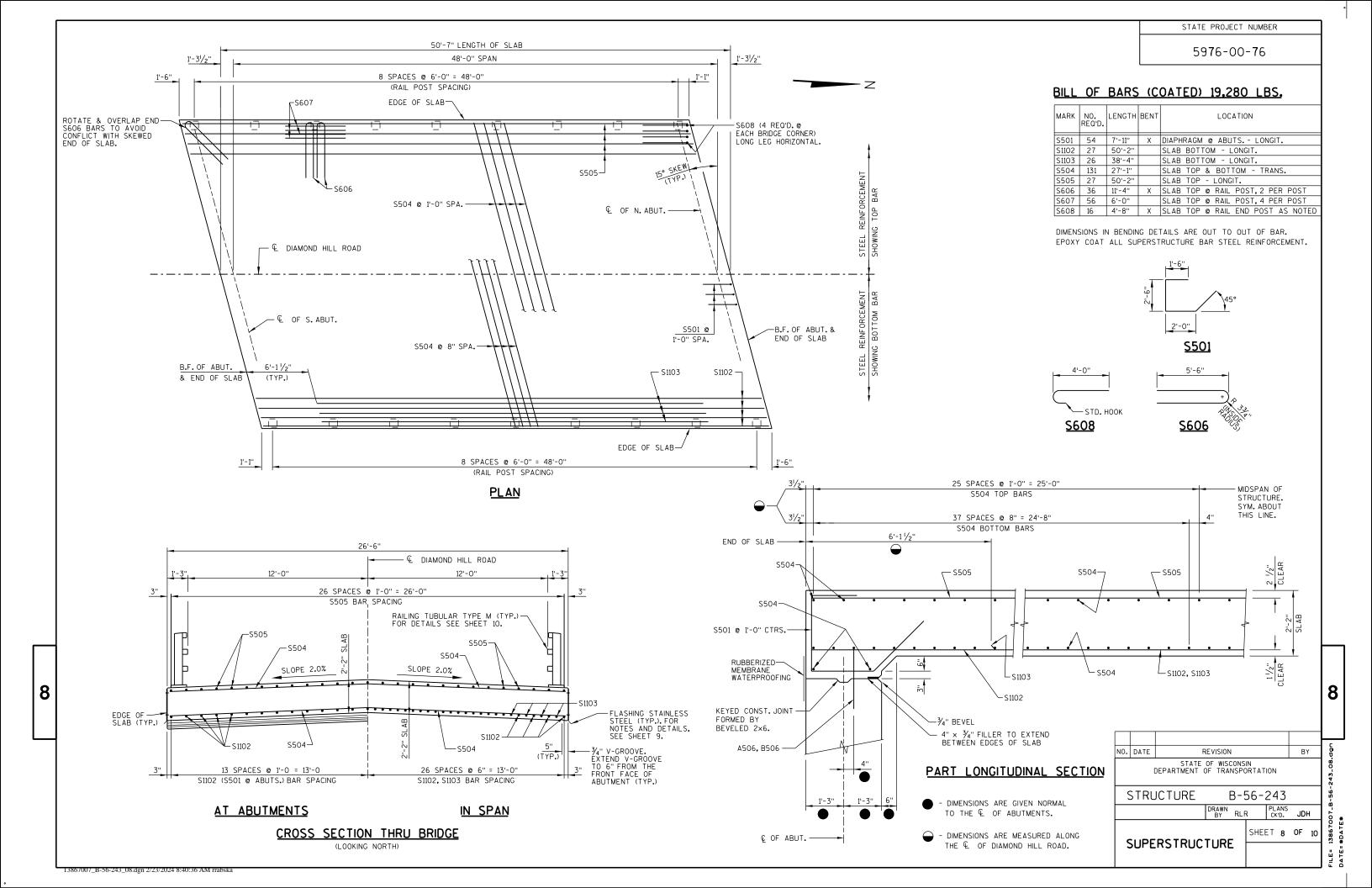




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CAMBER AND SLAB THICKNESS DIAGRAM

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.

FLASHING NOTES

THE BID ITEM "FLASHING STAINLESS STEEL" SHALL INCLUDE PROVIDING AND INSTALLING THE STAINLESS STEEL FLASHING, CAULK, 1/6" CONCRETE SCREWS AND CLEANING THE EDGE OF THE SLAB PRIOR TO ATTACHMENT OF THE FLASHING.

FLASHING TO BE INSTALLED AFTER PROTECTIVE SURFACE TREATMENT.

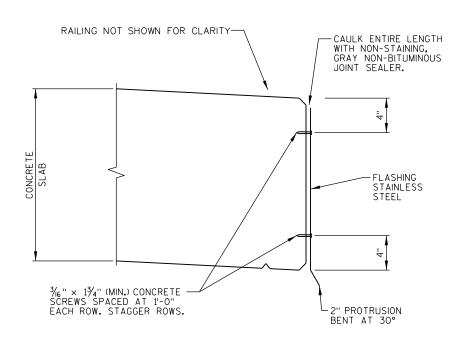
CONCRETE SCREWS SHALL BE 410 STAINLESS STEEL.

TOP OF FLASHING TO BEGIN APPROX. 1-INCH BELOW

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 $\frac{3}{6}$ " X 2" (MIN.) CONCRETE SCREWS.

EXTEND FLASHING TO F.F. OF WING.



FLASHING DETAIL

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

EQUALS = TOP OF SLAB FALSEWORK ELEVATION

TOP OF SLAB ELEVATION AT FINAL GRADE
MINUS ___ SLAB THICKNESS
PLUS ___ CAMBER
PLUS ___ FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)

TOP OF SLAB ELEVATIONS

	€ BEARING SOUTH ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	€ BEARING NORTH ABUT.
WEST EDGE OF SLAB	8 7 2 . 51	872.51	872.51	872.51	872.51	8 7 2 . 51	872.51	8 7 2 . 51	8 7 2 . 52	8 7 2 . 52	8 7 2 . 52
€ DIAMOND HILL ROAD	872.77	872.77	872.77	872.78	872.78	872.78	872.78	872.78	872.78	872.78	872.78
EAST EDGE OF SLAB	8 7 2 . 51	872.51	872.51	872.51	872.51	8 7 2 . 51	872.51	8 7 2 . 51	872.51	8 7 2 . 52	8 7 2 . 52

SURVEY TOP OF SLAB ELEVATIONS

	€ SOUTH ABUTMENT	5/10 PT.	€ NORTH ABUTMENT
WEST EDGE OF SLAB			
€ DIAMOND HILL ROAD			
EAST EDGE OF SLAB			

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

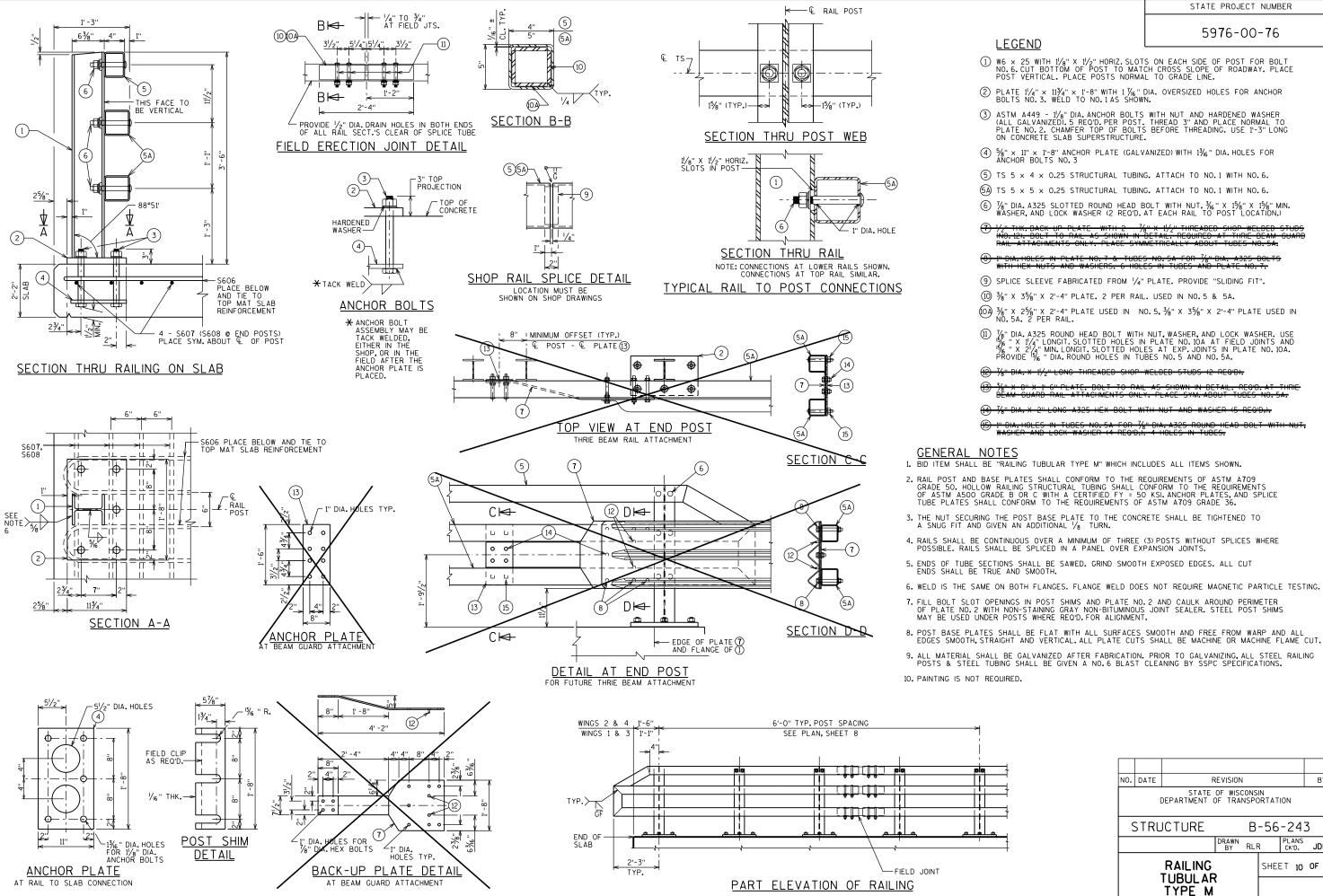
NOTES

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 (+).

FILL IN THE TABLE OF "SURVEY TOP OF SLAB ELEVATIONS" FOR EACH SPAN ON $\underline{\mathsf{AS}}$ $\underline{\mathsf{BUILT}}$ $\underline{\mathsf{PLANS}}$

O. DATE		REVISION			В	Y	09.4gn
	STATE DEPARTMENT	OF WISCONS OF TRANSPO		ION			-243.09.
STRL	JCTURE	B-5	56-	243			-B-56-
	DRAWN PLANS BY RLR CK'D.					н	
SUPERSTRUCTURE SHEE					OF	10	13867007
	DETAILS)					FILE=



BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION B-56-243 PLANS CK'D. SHEET 10 OF

EARTHWORK SUMMARY

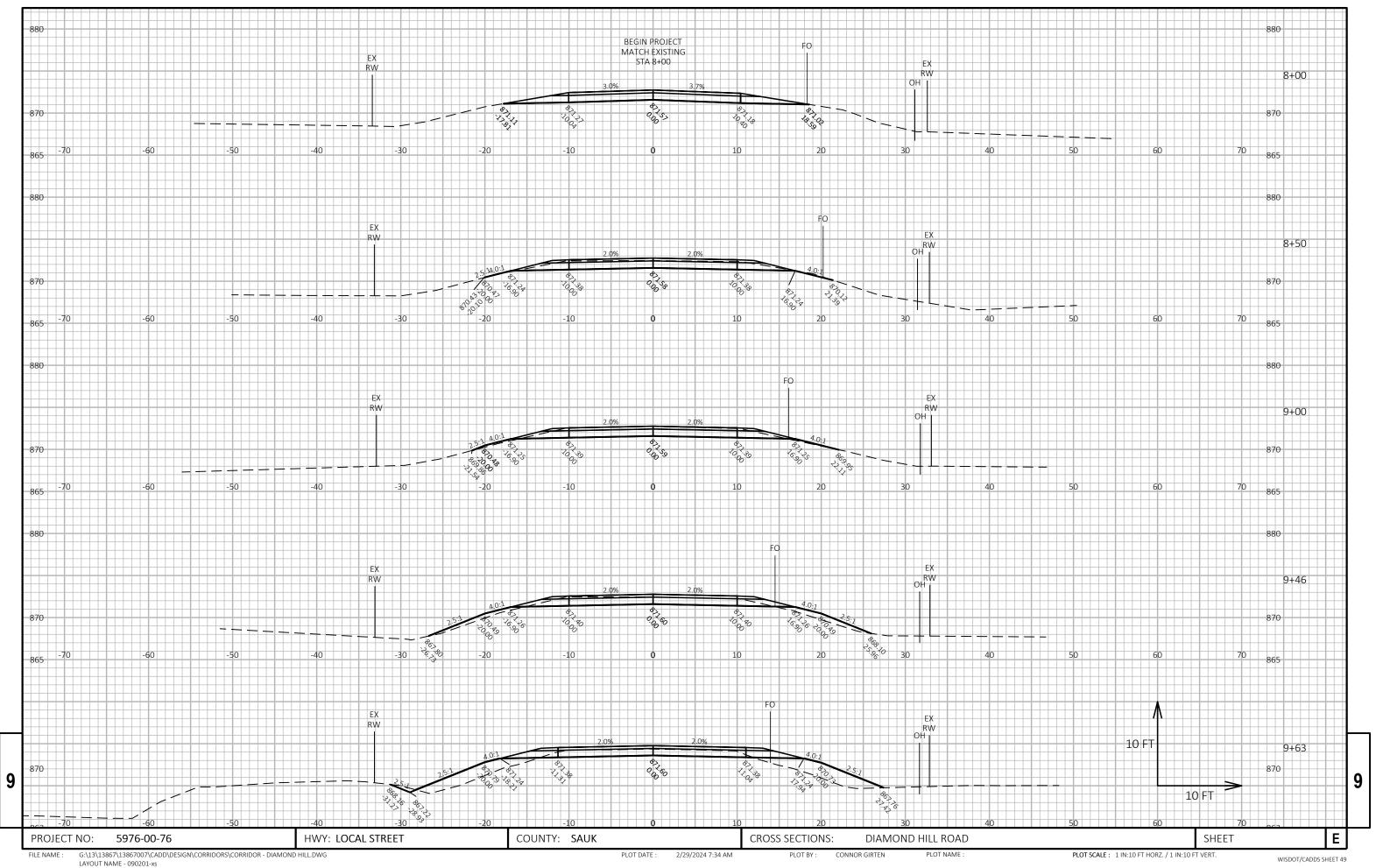
	EXCAVATION	EXCAVATION		EXPANDED		
	COMMON	ROCK	FILL (1)	FILL (2)	WASTE	BORROW
STA	CY	CY	CY	CY	CY	CY
8+00.00	-	-	-	-	-	-
	55.00	0.00	0.00	0.00	55.00	-55.00
8+50.00	-	-	-	-	-	-
	51.00	0.00	1.00	1.00	50.00	-50.00
9+00.00	-	-	-	-	-	-
	45.00	0.00	9.00	12.00	33.00	-33.00
9+46.49	-	-	-	-	-	-
	12.00	0.00	13.00	17.00	-5.00	5.00
9+62.84	-	-	-	-	-	-
-	3.00	0.00	7.00	9.00	-6.00	6.00
9+69.49	-	-	-	-	-	-
STRUCTURE B-5	66-0243					
10+31.47	=	-	-	-	-	-
	3.00	0.00	7.00	9.00	-6.00	6.00
10+37.16	-	-	-	-	-	-
	12.00	0.00	21.00	27.00	-15.00	15.00
10+53.51	-	-	-	-	-	-
	43.00	0.00	21.00	27.00	16.00	-16.00
11+00.00	-	-	-	-	-	-
SUBTOTALS						
S. APPROACH	166.00	0.00	30.00	39.00	127.00	-127.00
N. APPROACH	58.00	0.00	49.00	63.00	-5.00	5.00
UNUSABLE PAV	'EMENT (3)					60.00
TOTALS	224.00	0.00	79.00	102.00	122.00	-62.00
(1) - NOT A BID	ITEM - FOR INFO	RMATIONAL PU	JRPOSES ONL	Υ.		
(2) - FILL EXPAN	ISION 30%					
(3) - EXISTING P	AVEMENT BASE	ON AVE THK (OF 3.75"			

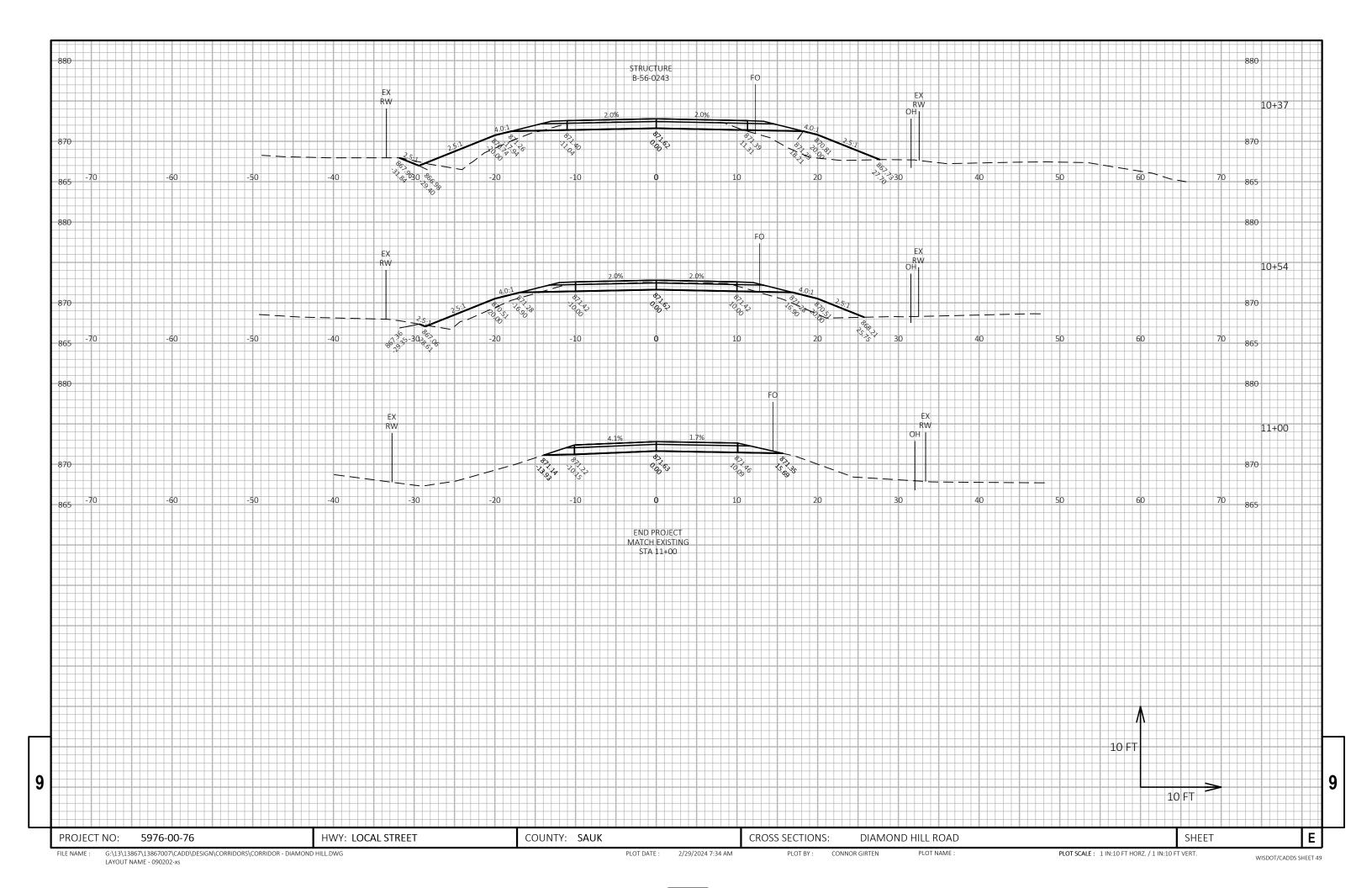
9

PROJECT NO: 5976-00-76 HWY: LOCAL STREET COUNTY: SAUK EARTHWORK DATA SHEET: **E**

FILE NAME : N:\PDS\...\030200_mq.pptx PLOT BY : MSA PLOT NAME : PLOT SCALE : 1:1

9







Wisconsin Department of Transportation

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