Section No.

Section No.

Section No.

TOTAL SHEETS = 48

DESIGN DESIGNATION

(2026)

(2046)

CONVENTIONAL SYMBOLS

= <100

= <100 = 10

= 50/50 = 5%

= 55 MPH

AADT

A.A.D.T.

DESIGN SPEED

CORPORATE LIMITS

LIMITED HIGHWAY EASEMENT

PROPOSED OR NEW R/W LINE

EXISTING RIGHT OF WAY

SLOPE INTERCEPT

REFERENCE LINE

EXISTING CULVERT

PROPOSED CULVERT (Box or Pipe)

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

MARSH AREA

PROPERTY LINE

LOTTINE

D.H.V. D.D.

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

Plan and Profile

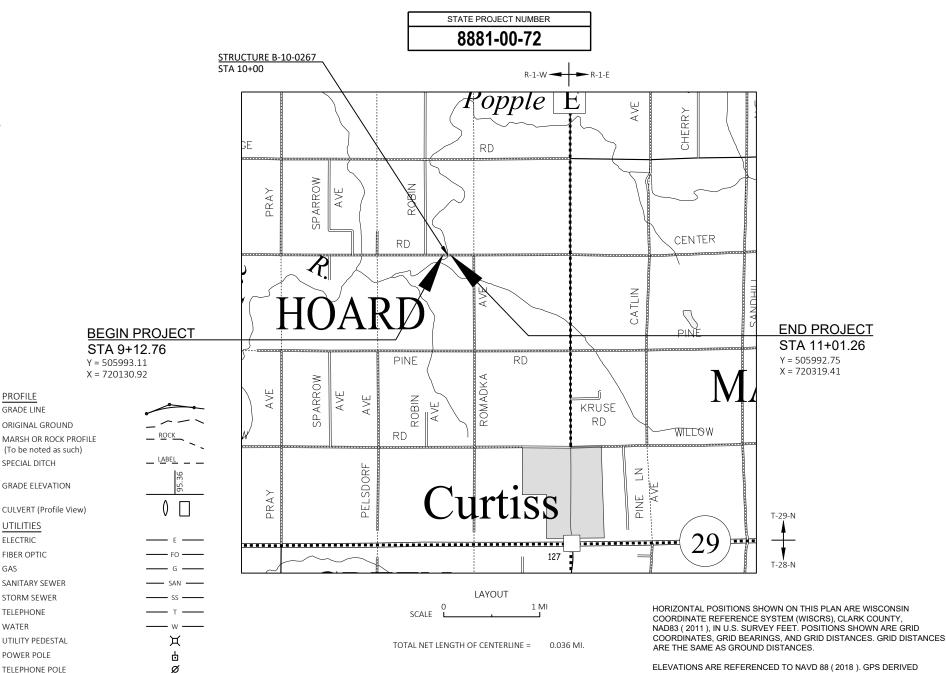
DECEMBER 2025 STATE OF WISCONSIN ORDER OF SHEETS **DEPARTMENT OF TRANSPORTATION** Section No. Typical Sections and Details Section No. Estimate of Quantities

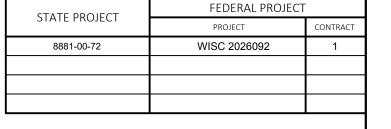
PLAN OF PROPOSED IMPROVEMENT

T HOARD, CENTER ROAD

N FK POPPLE RIVER BRIDGE B-10-0267

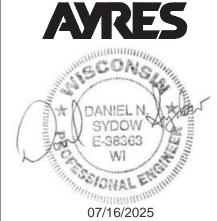
LOC STR CLARK COUNTY







ORIGINAL PLANS PREPARED BY



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY Surveyor Designer Project Manage

AYRES ASSOCIATES INC

ATF: 7/23/2025

FILE NAME: I:\42\42-1434.00 - CLARK CO, TN HOARD, CENTER ROAD\C3D\SHEETS\010101-TI.DWG

GRADE LINE

ORIGINAL GROUND

SPECIAL DITCH

UTILITIES

FIBER OPTIC

SANITARY SEWER

STORM SEWER

TELEPHONE POLE

ELECTRIC

GRADE ELEVATION

CULVERT (Profile View)

(To be noted as such)

1/7/2025 2:25 PM

PEDERSON, CARMEN

ELEVATIONS ARE BASED ON GEOID 18

UTILITIES CONTACTS

CLARK ELECTRIC COOPERATIVE KENT WEIGEL 1209 WEST DALL-BERG ROAD PO BOX 190 GREENWOOD, WI 54449 PHONE: 715-267-7955 CELL: 715-207-8883 EMAIL: kweigel@cecoop.com TDS TELECOM
BRETT CONNOR
525 JUNCTION RD
MADISON, WI 53717
PHONE: 608-664-0974
MOBILE: 608-444-9940
EMAIL: brett.connor@tdstelecom.com

WISCONSIN DNR LIAISON

BRAD BETTHAUSER
WDNR
910 HWY 54 E
BLACK RIVER FALLS, WI 54615
PHONE: 715-213-9064
EMAIL: Bradley.Betthauser@wisconsin.gov

DESIGN PROJECT MANAGER

TOU YANG, PE WISDOT NW REGION 718 W. CLAIREMONT AVENUE EAU CLAIRE, WI 54701 PHONE: 715-833-5570 EMAIL: tou.yang@dot.wi.gov

DESIGN PROJECT LEADER

DANIEL SYDOW, PE AYRES ASSOCIATES 3433 OAKWOOD HILLS PARKWAY EAU CLAIRE, WI 54701 PHONE: 715-834-3161 EMAIL: sydowd@AyresAssociates.com

COUNTY HIGHWAY COMMISSIONER

BRIAN DUELL, COMMISSIONER CLARK COUNTY 511 W SOUTH STREET LOYAL, WI 54446 PHONE: 715-743-3680 EMAIL: brian.duell@co.clark.wi.us 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 SHOWN.

FILL EXPANSION FACTOR IS 30%

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

RIGHT OF WAY INFORMATION SHOWN ON THE PLANS IS APPROXIMATE.

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.

SEED MIXTURE NO. 20 AND SEEDING TEMPORARY SHALL BE USED IN THE PROJECT AND SHALL BE PLACED AS SHOWN IN THE PLANS AND/OR DIRECTED BY THE ENGINEER.

THE PROPOSED SHOULDER WIDTH SHOWN IN THE TYPICAL SECTIONS ARE MINIMUM WIDTH. PERPETUATE EXISTING SHOULDERS THAT ARE WIDER THAN WHAT IS SHOWN IN THE TYPICAL SECTIONS.

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.

THE DEPARTMENT OF TRANSPORTATION WILL FURNISH THE CONTRACTOR WITH A MONUMENT TO BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

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

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A				В			С			D	
	SLOPE	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	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56	
MEDIAN STRIPTURF:	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
WEDIAN STRIPTORF.	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPETURF:			.25			.27			.28			.30
SIDE SLOPETORP.			.32			.34			.36			.38
PAVEMENT:												
ASPHALT:						.70 -	95					
CONCRETE:						.80	95					
BRICK:						.70 -	80					
DRIVES, WALKS:						.75 -	85					
ROOFS:						.75 -	95					
GRAVEL ROADS, SHOULDERS:						.40 -	60					

TOTAL PROJECT AREA = <u>0.286</u> ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = <u>0.202</u> ACRES

PROJECT NO: 8881-00-72 HWY: CENTER ROAD COUNTY: CLARK

FILE NAME: 1/42/42-1434.00 - CLARK CO, TN HOARD, CENTER ROAD/CSD/SHEETS/020101-GN.DWG

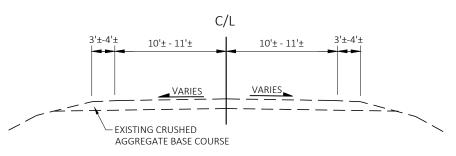
PLOT DATE: 4/15/2025 8:03 AM PLOT DATE: 4/15/2025 8:03 AM PLOT NAME: PLOT NAME: PLOT NAME: 1" = 1'

WISDOT/CADDS SHEET 42

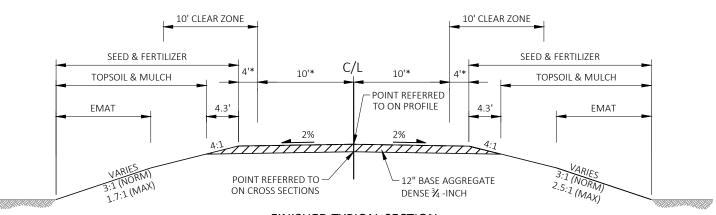
WISDOT/CADDS SHEET 42

-1434.00 - CLARK CO, TN HOARD, CENTER ROAD\C3D\SHEETS\020101-GN.DWG

NAME - 01



EXISTING TYPICAL SECTION CENTER ROAD



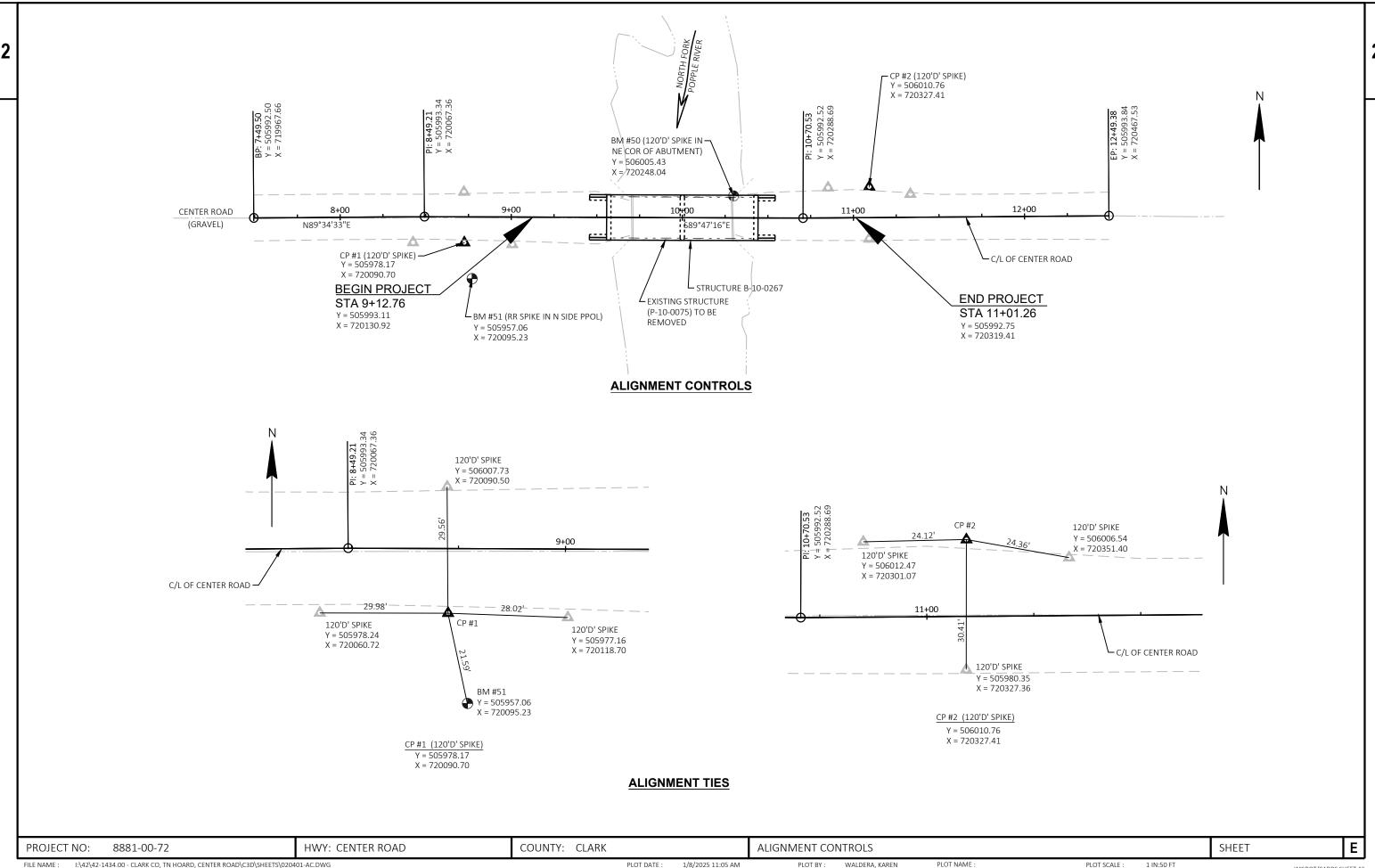
FINISHED TYPICAL SECTION

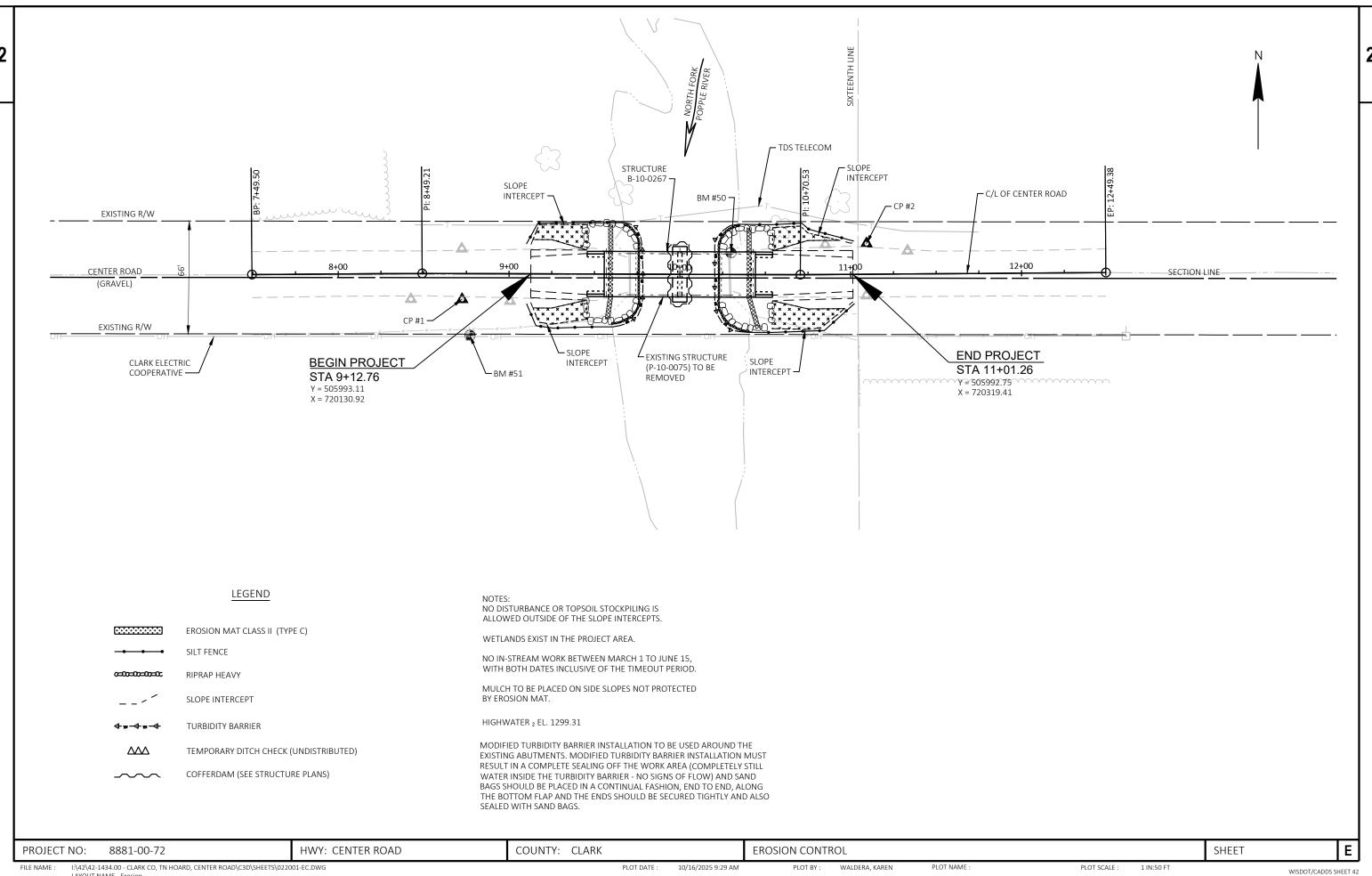
CENTER ROAD STA 9+12.76 TO STA 9+55.75 STA 10+44.25 TO STA 11+01.26

*THE TOTAL BASE AGGREGATE LANE PLUS SHOULDER SHALL TAPER FROM 15.25' WIDE AT THE ENDS OF THE WING TO 14' WIDE 50' FROM THE ENDS OF THE BRIDGE ON THE LEFT SIDE, THE RIGHT SIDE SHOULD REMAIN AT 14' WIDE AND THE OVERALL BASE AGGREGATE WIDTH TO MATCH EXISTING AT THE ENDS OF THE PROJECT.

PROJECT NO: 8881-00-72 HWY: CENTER ROAD COUNTY: CLARK TYPICAL SECTIONS SHEET **E**

PLOT DATE :





8881-00-72	
04	

					8881-00-72	
Line	Item	Item Description	Unit	Total	Qty	
002	201.0105	Clearing	STA	1.000	1.000	
004	201.0205	Grubbing	STA	1.000	1.000	
006	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-10-0075	EACH	1.000	1.000	
800	205.0100	Excavation Common	CY	73.000	73.000	
010	205.0508.S	Excavation, Hauling, and Disposal of Potential Creosote Contaminated Soil	TON	272.000	272.000	
12	206.1001	Excavation for Structures Bridges (structure) 01. B-10-0267	EACH	1.000	1.000	
)14	206.5001	Cofferdams (structure) 01. B-10-0267	EACH	1.000	1.000	
16	208.0100	Borrow	CY	3.000	3.000	
18	210.1500	Backfill Structure Type A	TON	220.000	220.000	
20	213.0100	Finishing Roadway (project) 01. 8881-00-72	EACH	1.000	1.000	
22	305.0110	Base Aggregate Dense 3/4-Inch	TON	235.000	235.000	
24	502.0100	Concrete Masonry Bridges	CY	246.500	246.500	
26	502.3200	Protective Surface Treatment	SY	340.000	340.000	
28	502.9000.S	Underwater Substructure Inspection (structure) 01. B-10-0267	EACH	1.000	1.000	
30	505.0400	Bar Steel Reinforcement HS Structures	LB	4,440.000	4,440.000	
32	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	32,520.000	32,520.000	
34	506.0105	Structural Steel Carbon	LB	530.000	530.000	
36	513.4061	Railing Tubular Type M	LF	222.000	222.000	
38	516.0500	Rubberized Membrane Waterproofing	SY	18.000	18.000	
40	550.0500	Pile Points	EACH	15.000	15.000	
42	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	675.000	675.000	
14	606.0300	Riprap Heavy	CY	240.000	240.000	
16	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	180.000	180.000	
48	618.0100	Maintenance and Repair of Haul Roads (project) 01. 8881-00-72	EACH	1.000	1.000	
50	619.1000	Mobilization	EACH	1.000	1.000	
52	624.0100	Water	MGAL	5.000	5.000	
54	625.0100	Topsoil	SY	280.000	280.000	
56	627.0200	Mulching	SY	230.000	230.000	
58	628.1504	Silt Fence	LF	330.000	330.000	
60	628.1520	Silt Fence Maintenance	LF	660.000	660.000	
62	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000	
64	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000	
36	628.2027	Erosion Mat Class II Type C	SY	200.000	200.000	
38	628.6005	Turbidity Barriers	SY	270.000	270.000	
70	628.7504	Temporary Ditch Checks	LF	50.000	50.000	
72	629.0210	Fertilizer Type B	CWT	0.300	0.300	
- 74		Seeding Mixture No. 20	LB	19.000	19.000	
76	630.0200	Seeding Temporary	LB	11.000	11.000	
78	630.0500	Seed Water	MGAL	9.000	9.000	
30	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	4.000	4.000	
32	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
34	638.2602	Removing Signs Type II	EACH	6.000	6.000	
36	638.3000	Removing Small Sign Supports	EACH	6.000	6.000	
38	642.5001	Field Office Type B	EACH	1.000	1.000	
90	643.0420	Traffic Control Barricades Type III	DAY	1,980.000	1,980.000	
92	643.0705	Traffic Control Warning Lights Type A	DAY	2,640.000	2,640.000	
94	643.0900	Traffic Control Signs	DAY	1,320.000	1,320.000	
	643.5000	Traffic Control	EACH	1.000	1.000	
96						

Estimate Of Quantities

8881-00-72

Page

Line	Item	Item Description	Unit	Total	Qty
0100	645.0120	Geotextile Type HR	SY	400.000	400.000
0102	650.4500	Construction Staking Subgrade	LF	100.000	100.000
0104	650.5000	Construction Staking Base	LF	100.000	100.000
0106	650.6501	Construction Staking Structure Layout (structure) 01. B-10-0267	EACH	1.000	1.000
0108	650.9911	Construction Staking Supplemental Control (project) 01. 8881-00-72	EACH	1.000	1.000
0110	650.9920	Construction Staking Slope Stakes	LF	100.000	100.000
0112	715.0502	Incentive Strength Concrete Structures	DOL	1,482.000	1,482.000
0114	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 10+00	EACH	1.000	1.000
0116	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0118	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0120	SPV.0195	Special 01. Select Crushed Material for Travel Corridor	TON	12.000	12.000

CLEARING & GRUBBING

-	STATION	ТО	STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
	9+12.76	-	11+01.26	CENTER ROAD	1	1
				TOTAL 0010	1	1

EXCAVATION. HAULING. AND DISPOSAL OF POTENTIAL CREOSOTE CONTAMINATED SOIL

205.0508.S EXCAVATION, HAULING, AND DISPOSAL OF POTENTIAL CREOSOTE CONTAMINATED SOIL

STATION	TO	STATION	LOCATION	TON
9+58	-	9+71	P-10-0075	136
10+29	-	10+42	P-10-0075	136
			TOTAL 0010	272
	9+58	9+58 -	9+58 - 9+71	9+58 - 9+71 P-10-0075 10+29 - 10+42 P-10-0075

NOTE: EXCAVATE A 5' OFFSET AROUND EACH EXISTING BRIDGE TIMBER SUBSTRUCTURE AND 3' DEEP

MAINTENANCE AND REPAIR OF HAUL ROADS

CATEGORY LOCATION EACH

TOTAL 0030

618.0100.01

MAINTENANCE AND
REPAIR OF HAUL ROADS
(PROJECT) (01. TBD)

EACH

TOTAL 0030

1

CENTER ROAD EARTHWORK SUMMARY

From/To Station	Location	Excavation Common (1) 205.0100	Unexpanded Fill	Expanded Fill (2)	Mass Ordinate +/- (3)	Waste	Borrow
		Cut		Factor 1.30			208.0100
9+12.76 - 9+55.75	CENTER ROAD	39	16	21	18	18	0
10+44.25 - 11+01.26	CENTER ROAD	34	42	55	-21	-21	3
	ΤΟΤΔΙ	73	5.8	76			3

- 1) Excavation Common is the Cut. Item number 205.0100.
- 2) Expanded Fill. Factor = 1.30; Expanded Fill = Unexpanded Fill * Fill Factor
- $3) The \, Mass \, Ordinate + or \, \, Qty \, calculated \, for \, the \, Division. \, Plus \, quantity \, indicates \, an \, excess \, of \, material \, on \, the \, project.$
- 4) All quantities shown in CY.

FINISHING ROADWAY

BASE AGGREGATE DENSE

										305.0110
				213.0100.01						BASE
				FINISHING						AGGREGATE
				ROADWAY						DENSE 3/4-INCH
				(PROJECT) (01.		STATION	TO	STATION	LOCATION	TON
				8881-00-72)						
STATION	TO	STATION	LOCATION	EACH	_	9+12.76	-	9+55.75	CENTER ROAD	100
						10+44.25	-	11+01.26	CENTER ROAD	135
9+12.76	-	11+01.26	CENTER ROAD	1						
									TOTAL 0010	235
			TOTAL 0010	1						

MOBILIZATION

619.1000	
MOBILIZATION	LOCATION
EACH	
	COMPACTION
1	DUST CONTROL
	_
1	TOTAL 0010
	MOBILIZATION

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

WATER

PROJECT NO: 8881-00-72 HWY: CENTER ROAD COUNTY: CLARK MISCELLANEOUS QUANTITIES SHEET E

EROSION CONTROL ITEMS

CTATION	TO	CTATION	LOCATION	628.1504 SILT FENCE	628.1520 SILT FENCE MAINTENANCE	628.2027 EROSION MAT CLASS II TYPE C	628.6005 TURBIDITY BARRIERS	628.7504 TEMPORARY DITCH CHECKS
STATION	TO	STATION	LOCATION	LF	LF	SY	SY	LF
9+12.76 10+25	-	9+75 11+01.26	CENTER ROAD CENTER ROAD	125 140	250 280	75 85	105 110	
10+25	-	11+01.26	UNDISTRIBUTED	65	130	40	55	50
			TOTAL 0010	330	660	200	270	50

MOBILIZATIONS EROSION CONTROL

	628.1905	628.1910 MOBILIZATIONS
	MOBILIZATIONS	EMERGENCY
	EROSION	EROSION
	CONTROL	CONTROL
LOCATION	EACH	EACH
PROJECT LIMITS	4	4
TOTAL 0010	4	4

RESTORATION ITEMS

			TOTAL 0010	280	230	0.3	19	11	9
			UNDISTRIBUTED	55	45	0.1	4	2	2
10+44.25	-	11+01.26	CENTER ROAD	125	105	0.1	8	5	4
9+12.76	-	9+55.75	CENTER ROAD	100	80	0.1	7	4	3
STATION	TO	STATION	LOCATION	SY	SY	CWT	LB	LB	MGAL
				TOPSOIL	MULCHING	FERTILIZER TYPE B	SEEDING MIXTURE NO. 20	SEEDING TEMPORARY	SEED WATER
				625.0100	627.0200	629.0210	630.0120	630.0200	630.0500

FIELD OFFICE TYPE B

	642.5001
	FIELD OFFICE
	TYPE B
LOCATION	EACH
PROJECT LIMITS	1
TOTAL 0010	1

<u>SIGNS</u>

STATION	LOCATION	SIGN CODE	SIGN SIZE (INCHES)	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
0 : 45		WE 531	12726	1	2			DDID OF HACH MADY CION
9+45	LT	W5-52L	12X36	1	3			BRIDGE HASH MARK SIGN
9+45	RT	W5-52R	12X36	1	3			BRIDGE HASH MARK SIGN
9+51	RT	R12-1				1	1	WEIGHT LIMIT 5 TON SIGN
9+67	LT	W5-52L				1	1	BRIDGE HASH MARK SIGN
9+68	RT	W5-52R				1	1	BRIDGE HASH MARK SIGN
10+31	LT	W5-52R				1	1	BRIDGE HASH MARK SIGN
10+31	RT	W5-52L				1	1	BRIDGE HASH MARK SIGN
10+36	LT	R12-1				1	1	WEIGHT LIMIT 5 TON SIGN
10+55	LT	W5-52R	12X36	1	3			BRIDGE HASH MARK SIGN
10+55	RT	W5-52L	12X36	1	3			BRIDGE HASH MARK SIGN
	TOTAL 0010			4	12	6	6	•

TRAFFIC CONTROL

			643.0420		643.0705		643.0900	643.5000
			TRAFFIC		TRAFFIC			
			CONTROL		CONTROL		TRAFFIC	
			BARRICADES		WARNING		CONTROL	TRAFFIC
	DURATION		TYPEIII		LIGHTS TYPE A		SIGNS	CONTROL
LOCATION	DAYS	EACH	DAY	EACH	DAY	EACH	DAY	EACH
PER SDD 15C02	95	18	1,710	24	2,280	12	1,140	1
UNDISTRIBUTED			270		360		180	
						,		
TOTAL 0010			1,980		2,640		1,320	1

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJECT NO: 8881-00-72 HWY: CENTER ROAD COUNTY: CLARK MISCELLANEOUS QUANTITIES SHEET E

3

3

CONSTRUCTION STAKING

				650.4500 CONSTRUCTION STAKING	650.5000 CONSTRUCTION	650.9920 CONSTRUCTION STAKING SLOPE
				SUBGRADE	STAKING BASE	STAKES
STATION	TO	STATION	LOCATION	LF	LF	LF
9+12.76	-	11+01.26	CENTER ROAD	100	100	100
			TOTAL 0010	100	100	100

CONSTRUCTION STAKING SUPPLEMENTAL CONTROL

650.9911.01
CONSTRUCTION STAKING
SUPPLEMENTAL CONTROL
(PROJECT) (01. 8881-00-72)
PROJECT EACH

8881-00-72 1

TOTAL 0010 1

CONSTRUCTION STAKING STRUCTURE LAYOUT

INSTALLING AND MAINTAINING BIRD DETERRENT SYSTEM

999.2000.S.01
INSTALLING AND
MAINTAINING BIRD
DETERRENT SYSTEM
(STATION) (01. 10+00)

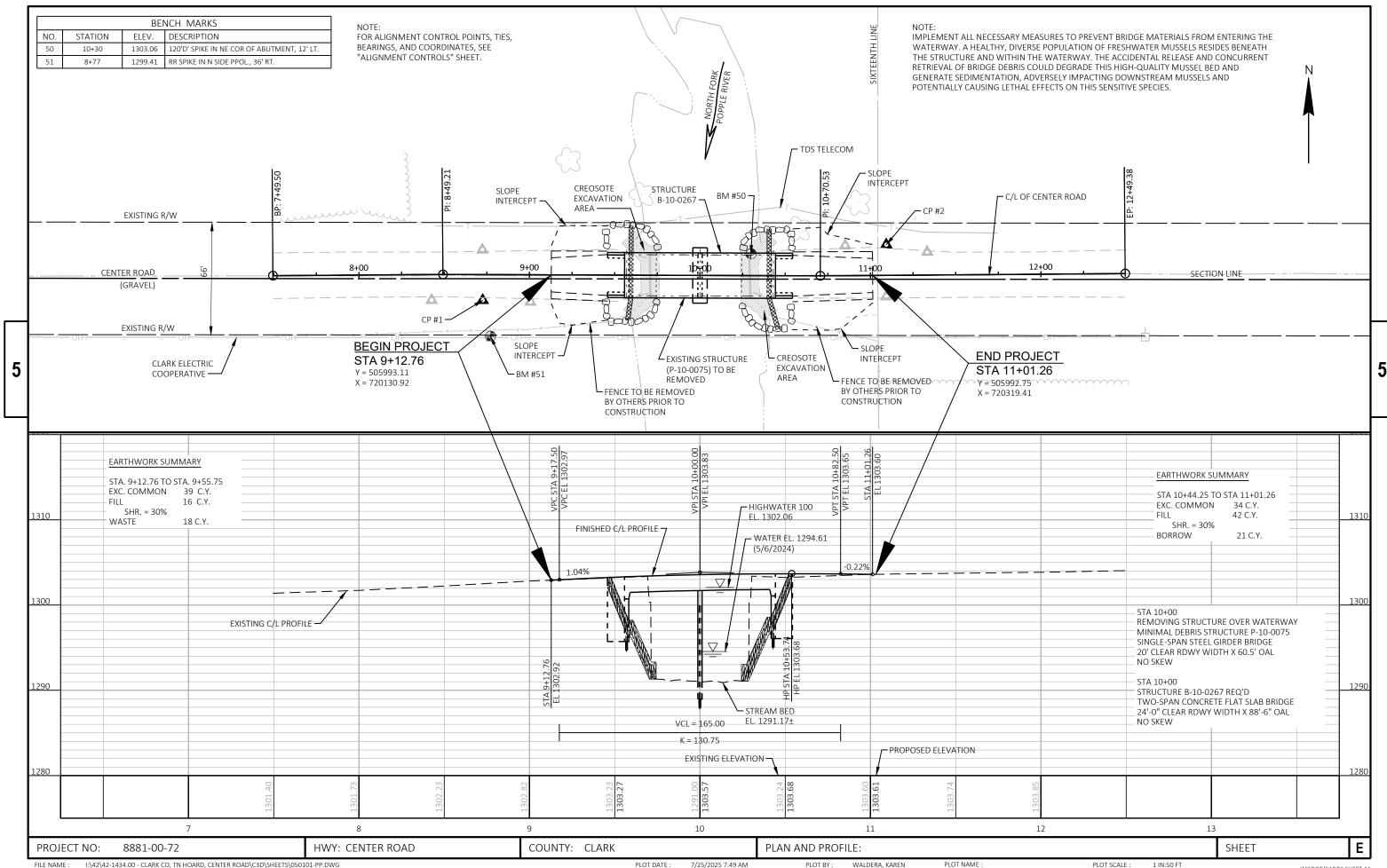
STATION LOCATION EACH

10+00 P-10-0075 1

TOTAL 0010 1

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJECT NO: 8881-00-72 HWY: CENTER ROAD COUNTY: CLARK MISCELLANEOUS QUANTITIES SHEET E



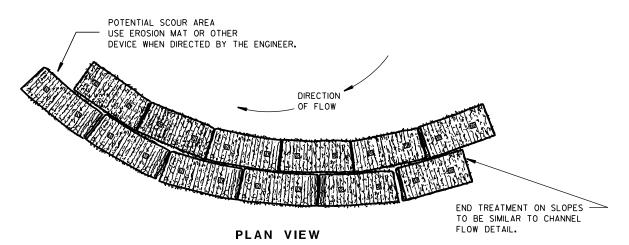
Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
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

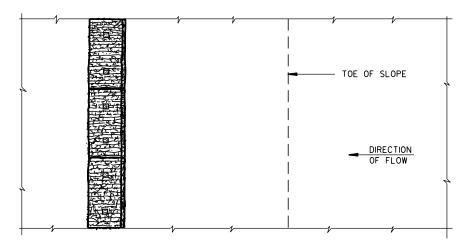
GENERAL NOTES

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.

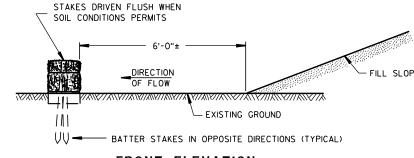
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



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

6

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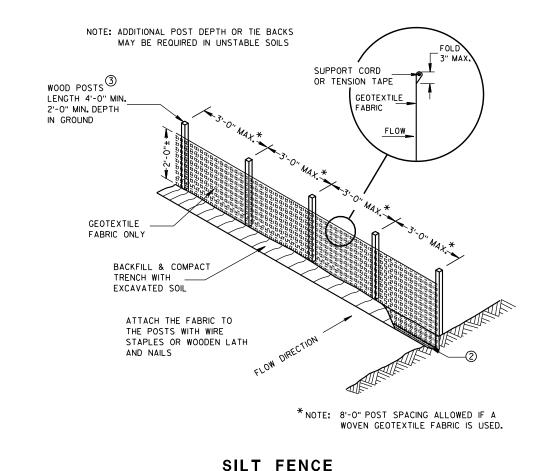
TYPICAL APPLICATION OF SILT FENCE

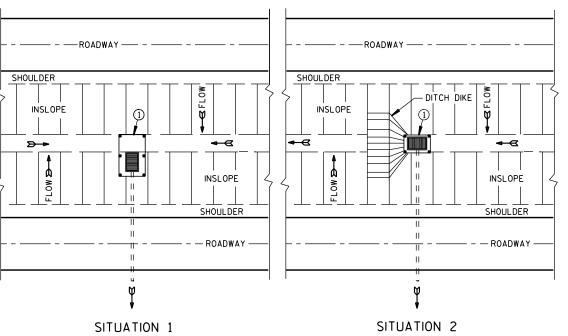
6

b

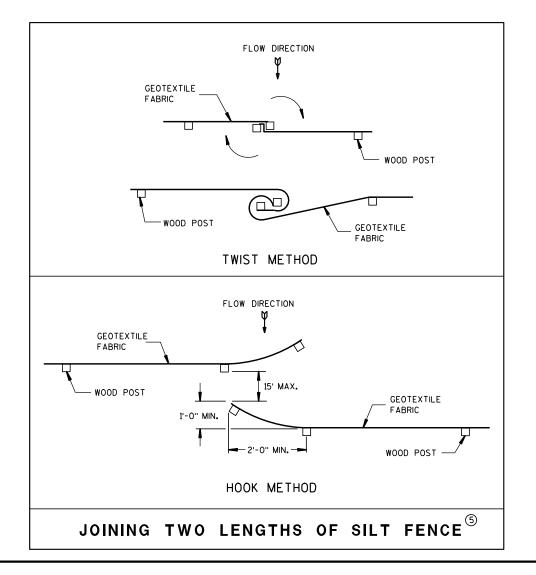
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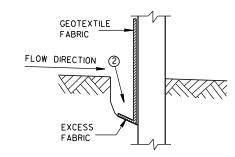
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



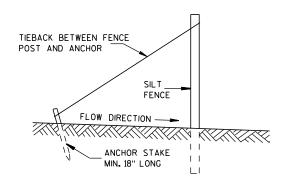
GENERAL NOTES

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.

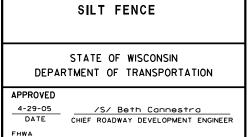


TRENCH DETAIL



SILT FENCE TIE BACK

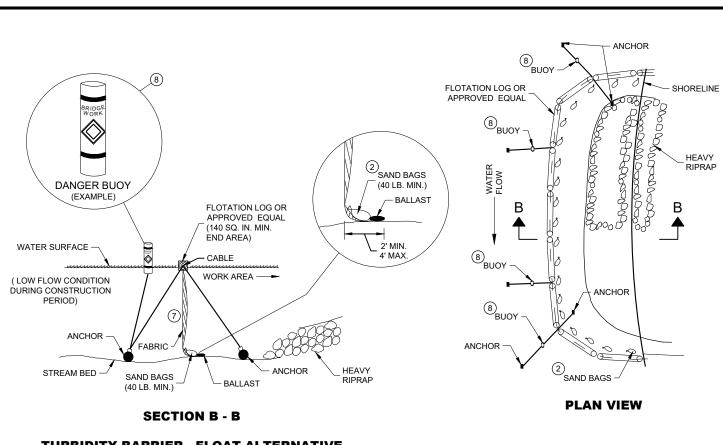
(WHEN REQUIRED BY THE ENGINEER)



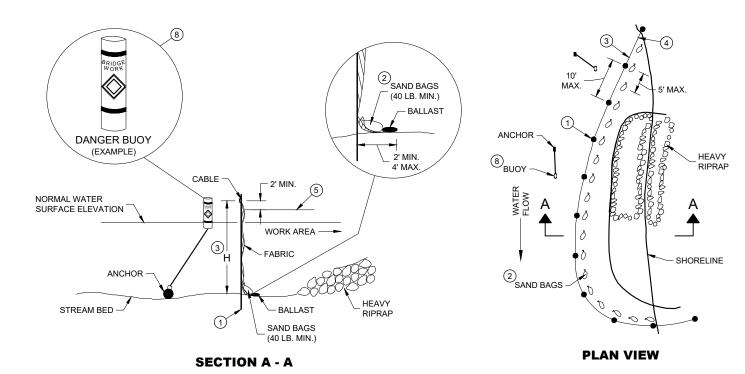
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D.D. 8 E 9-6



TURBIDITY BARRIER - FLOAT ALTERNATIVE CAUTION - SEE NOTE 6



TURBIDITY BARRIER - STANDARD POST INSTALLATION

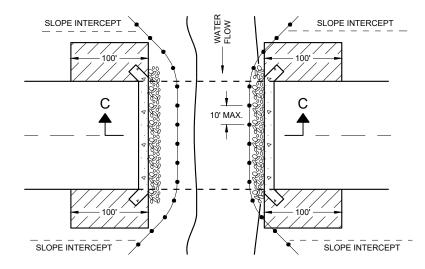
TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

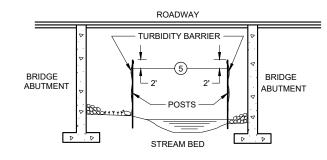
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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



PLAN VIEW



SECTION C - C

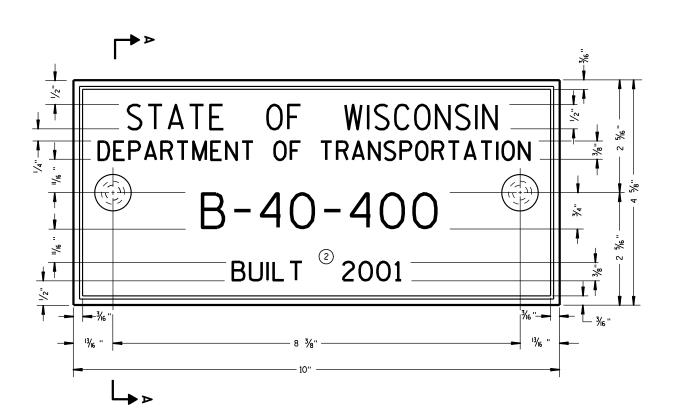
TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ∞

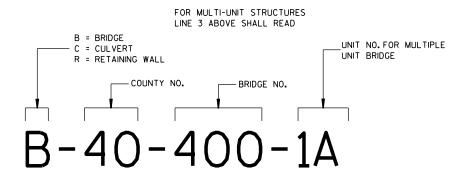
APPROVED /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT
ENGINEER 6/4/02 DATE





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



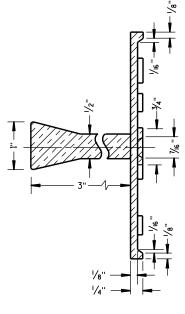
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

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.

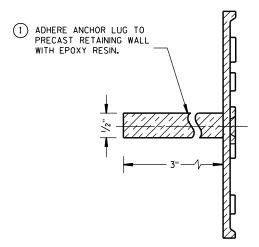
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

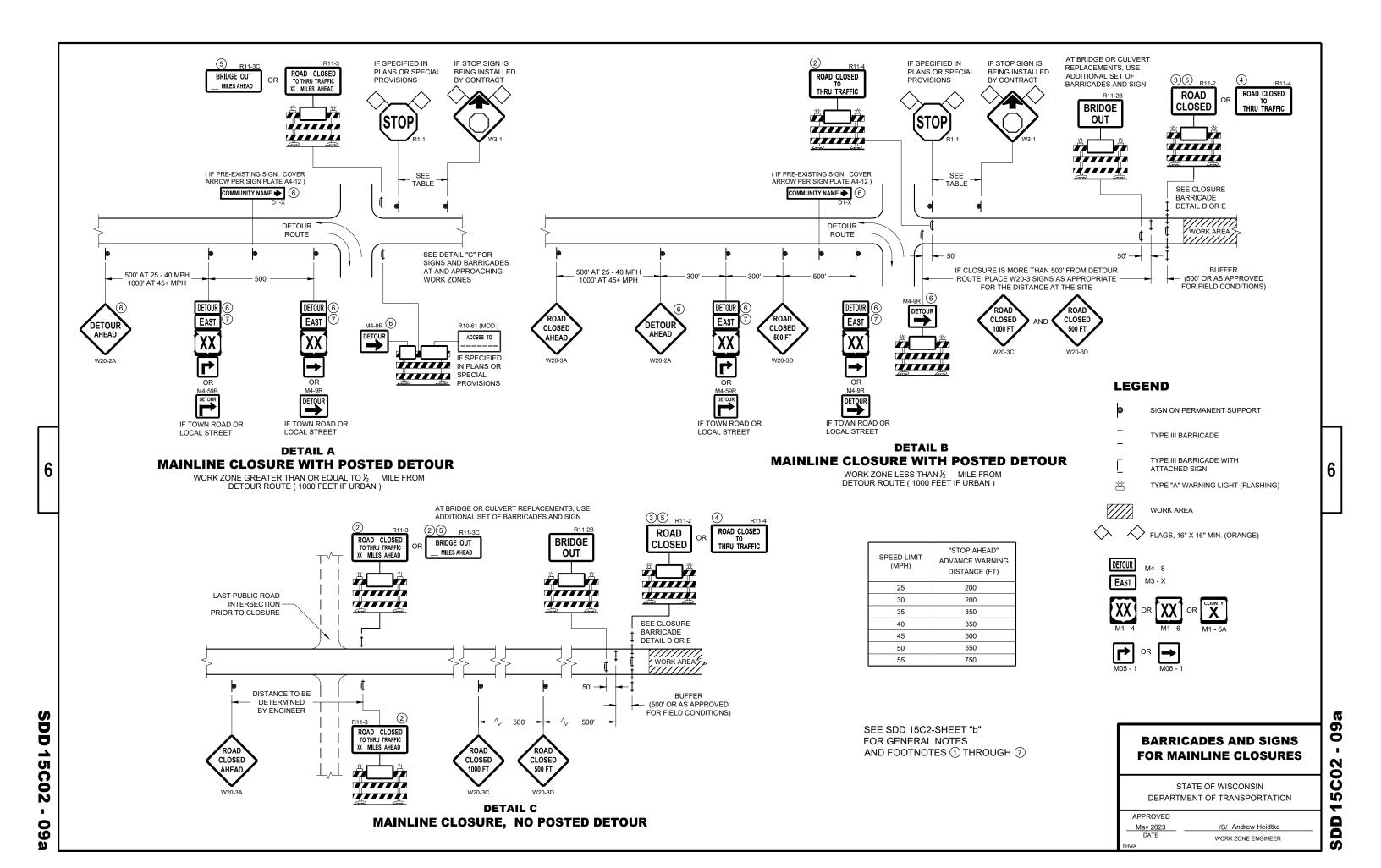
APPROVED

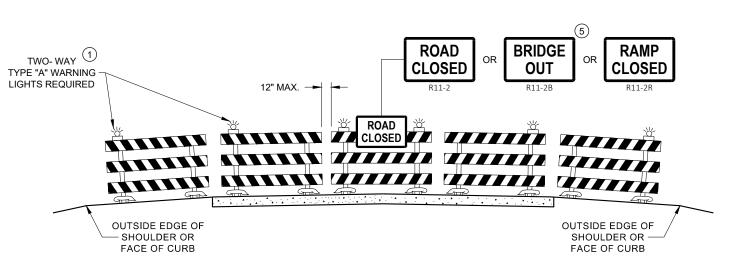
3/26/IO /S/ Scot Becker

DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

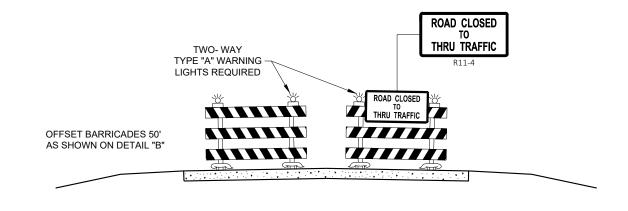
.D.D. 12 A

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**

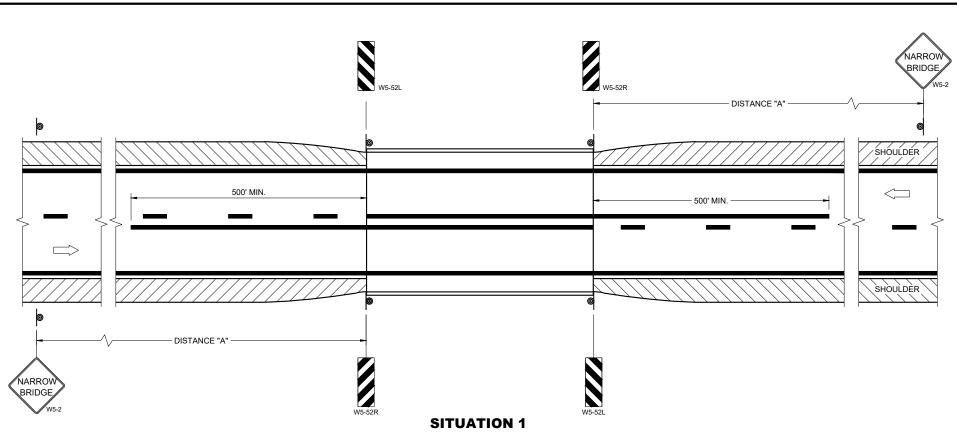
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE WORK ZONE ENGINEER

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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

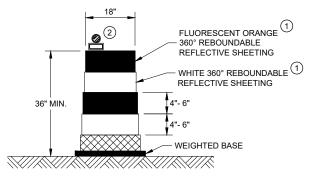
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

SDD 15C11

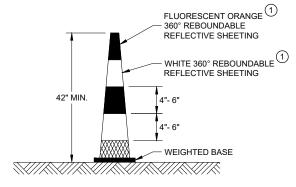
GENERAL NOTES

- (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.



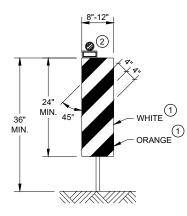
DRUM

BALLAST WIDTHS RANGE FROM 24"-36"



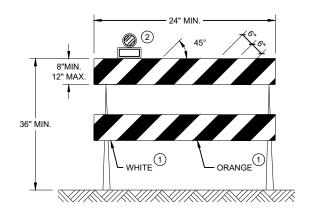
42" CONE

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



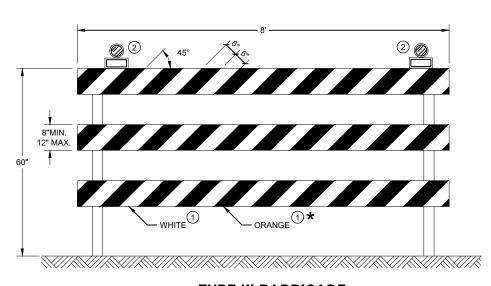
VERTICAL PANEL

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.

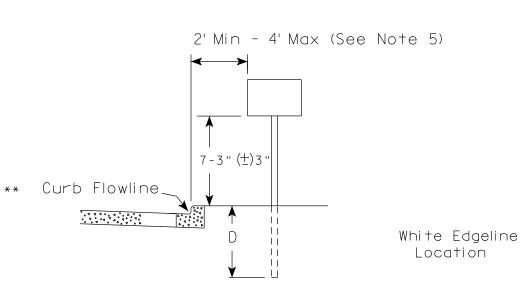
* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

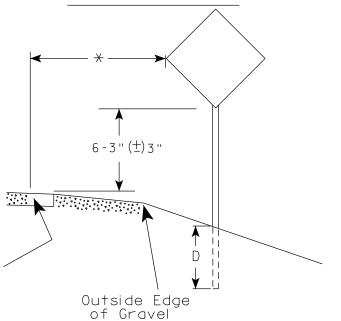
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 15C

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





RURAL AREA (See Note 2)



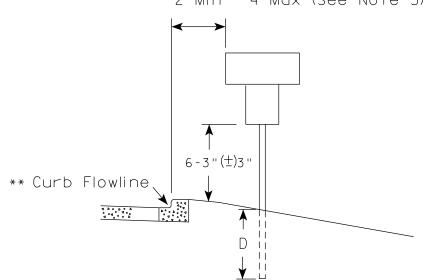
GENERAL NOTES

- 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

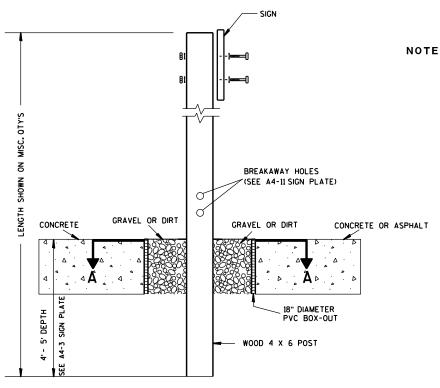
Matthew R Rawh

For State Traffic Engineer

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

Ε

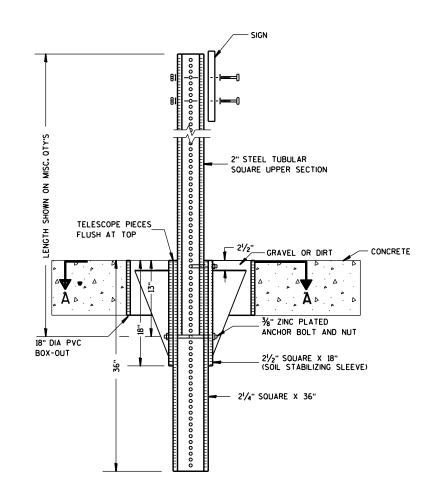
PROJECT NO: HWY: COUNTY: SHEET NO:



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.



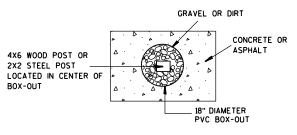
ELEVATION VIEW

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

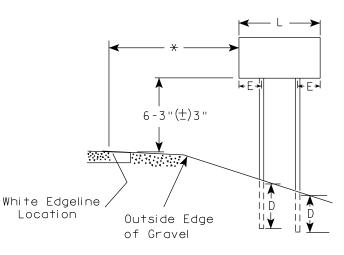
PLOT NAME :

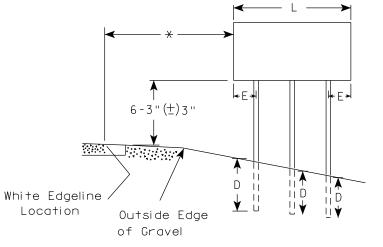
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

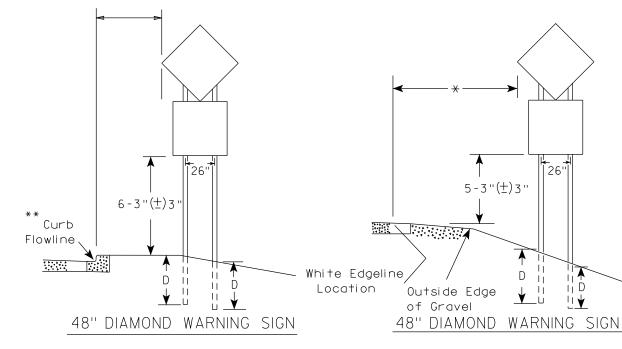
APPROVED

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 REQUIRED)			
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:

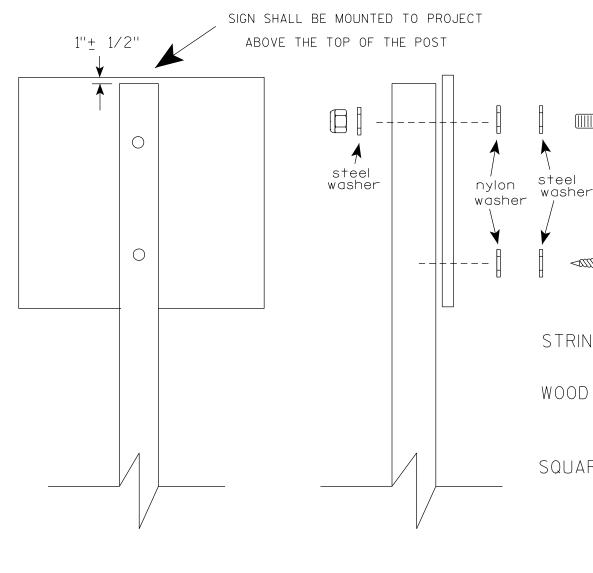
COUNTY:

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 - 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

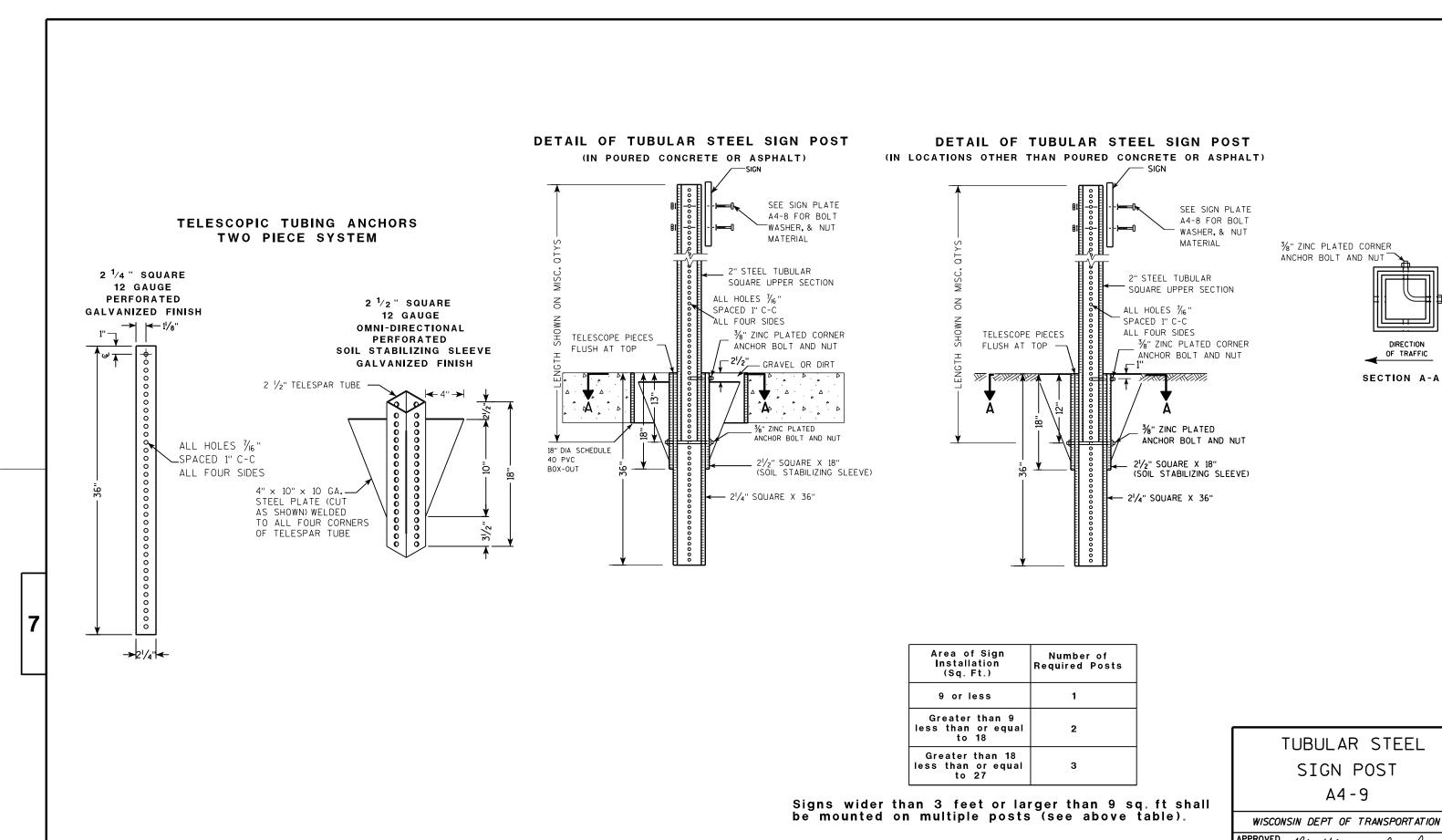
PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

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

PROJECT NO:

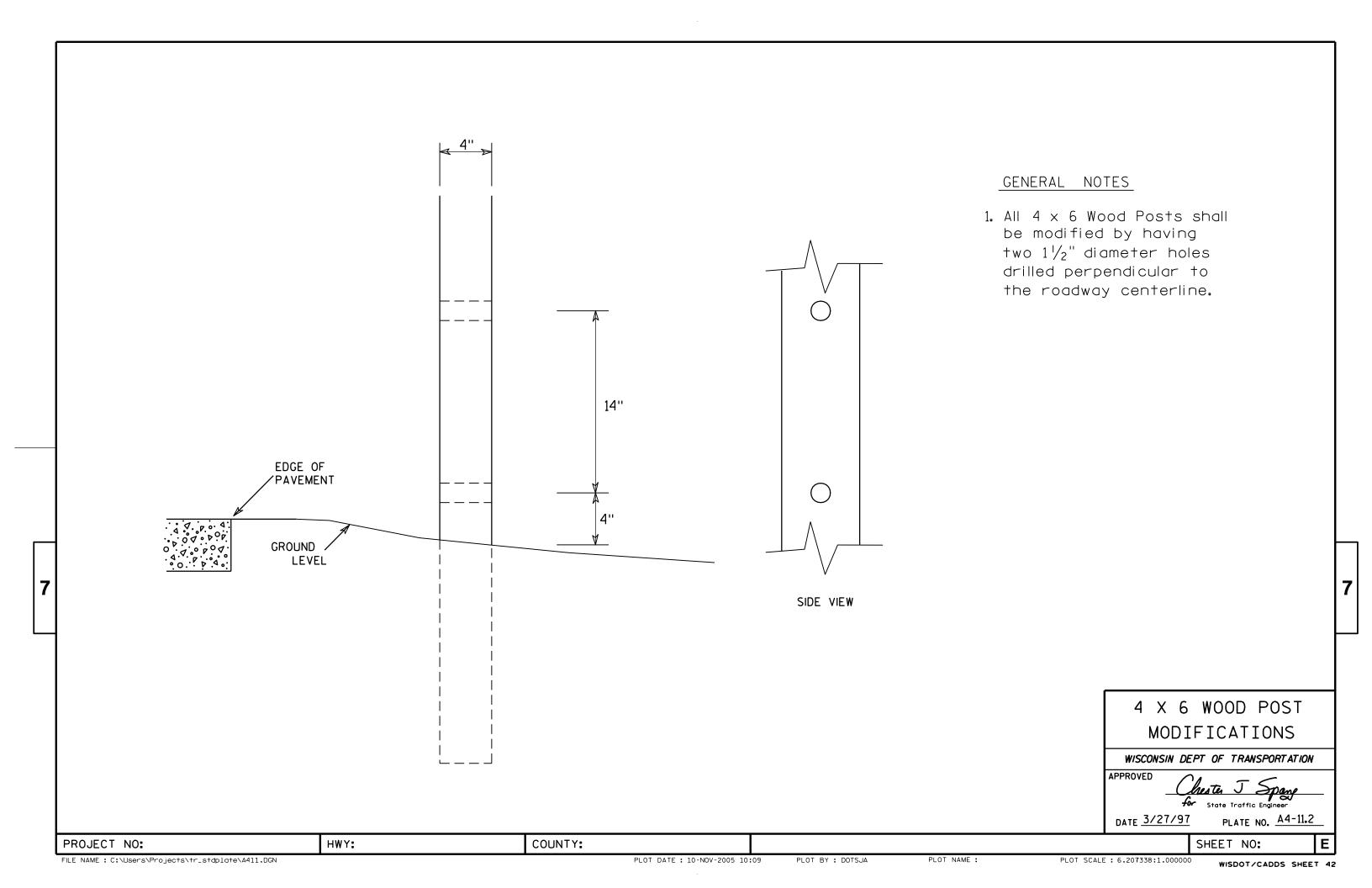


PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

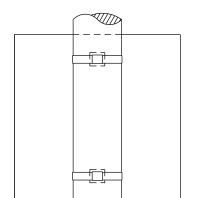
DATE 2/05/15

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

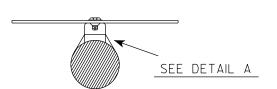
For State Traffic Engineer

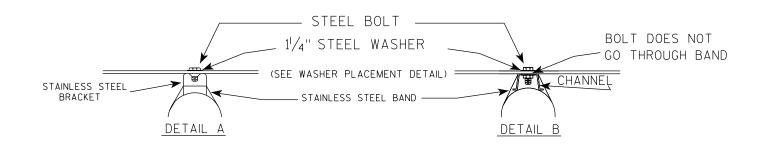


BANDING

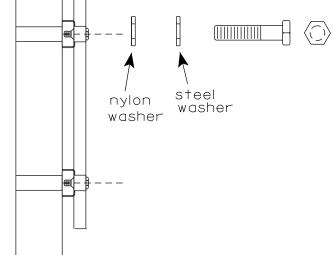


SINGLE SIGN





WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

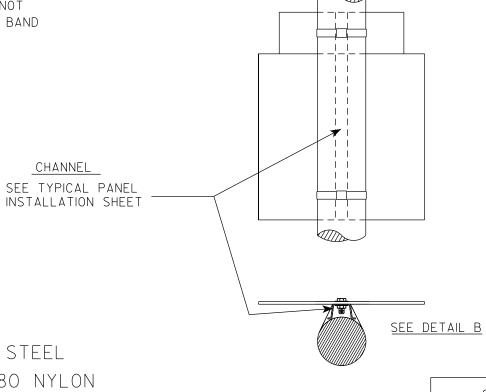
1-1/4" O.D. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

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:

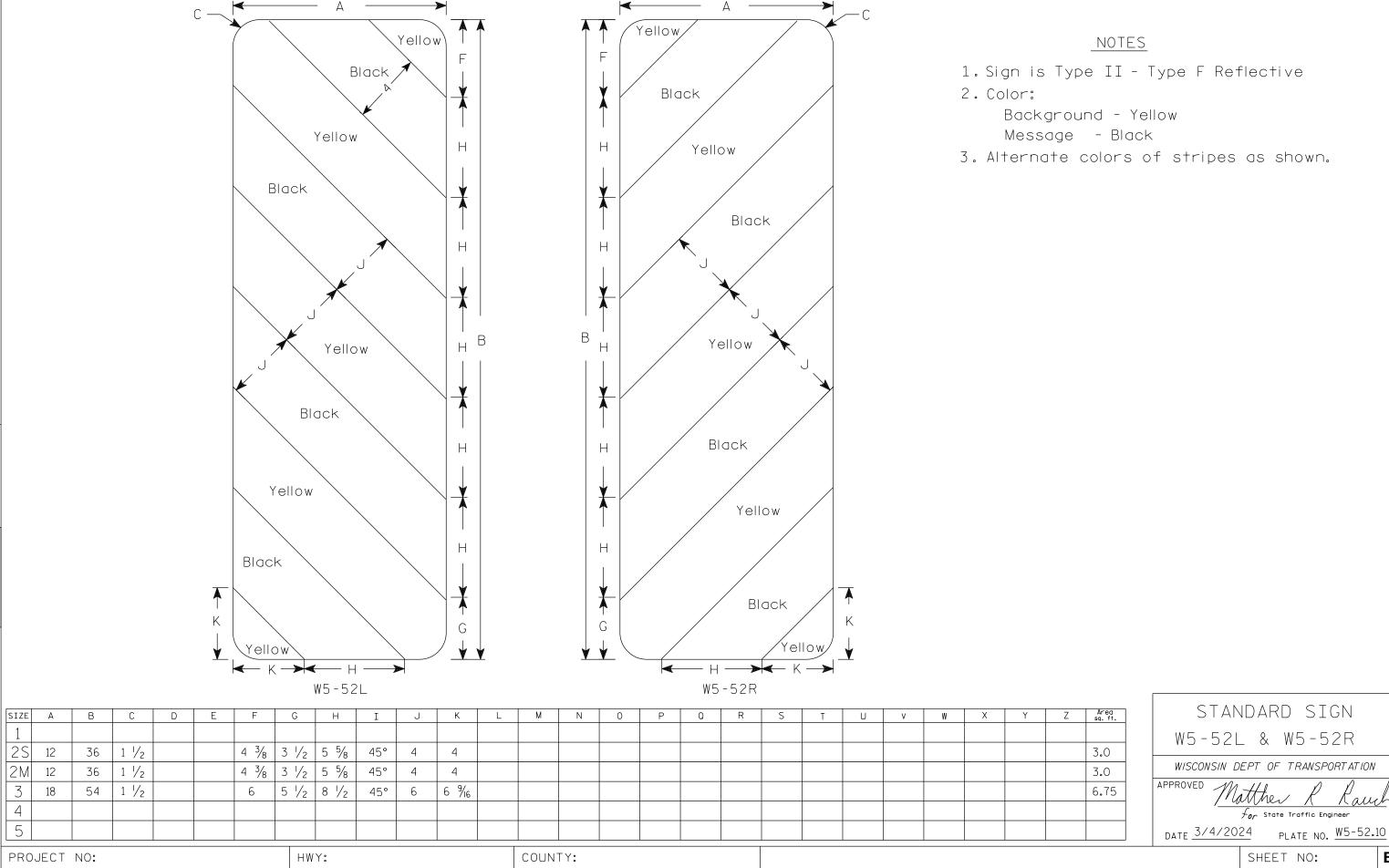
PLOT DATE: 19-APRIL 2022 11:55

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

8881-00-72

LIVE LOAD:

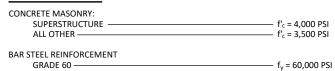
DESIGN LOADING: INVENTORY RATING: RF = 1.13 OPERATING RATING: RF = 1.46

DESIGN DATA

WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 (KIPS)

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

MATERIAL PROPERTIES:



FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 10x42 STEEL PILING WITH PILE POINTS DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 160 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 45'-0" LONG AT WEST ABUTMENT. ESTIMATED 45'-0" LONG AT EAST ABUTMENT.

PIER TO BE SUPPORTED ON HP 10X42 STEEL PILING WITH PILE POINTS DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 45'-0" LONG AT PIER.

**THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE PILE

TRAFFIC DATA

FEATURE ON: CENTER ROAD

ADT = <100 (2026) ADT = <100 (2046) R.D.S. = 55 MPH

100-YEAR FREQUENCY:

HYDRAULIC DATA

Q₁₀₀= 5,240 C.F.S. Q_{BRIDGE} = 3,476 C.F.S. $Q_{ROADWAY} = 1,764$ C.F.S. V₁₀₀= 4.9 F.P.S. HW₁₀₀= EL. 1302.06 WATERWAY AREA = 706 SQ. FT. DRAINAGE AREA = 29.9 SQ. MI.

SCOUR CRITICAL CODE = 5 ROADWAY OVERTOPPING

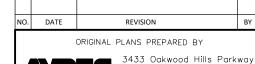
FREQUENCY = 10 YEARS Q = 2,850 C.F.S. HW = EL. 1301.4 2-YEAR FREQUENCY:

Q₂= 1,280 C.F.S. V₂= 2.7 F.P.S. HW₂= EL. 1299.31



STRUCTURE DESIGN CONTACTS:

AARON BONK 715-834-3161 DANIEL SYDOW



www.AyresAssociates.com STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

Eau Claire, WI 54701

CLP CK'D

DATE:

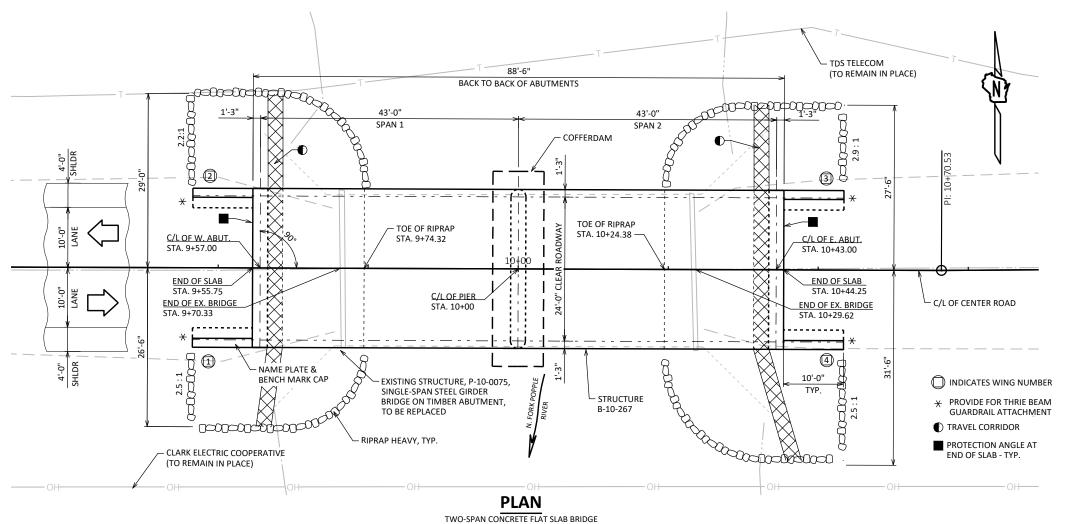
SHEET 1 OF 14

08/04/25 ACCEPTED CHIEF STRUCTURES DESIGN ENGINEER

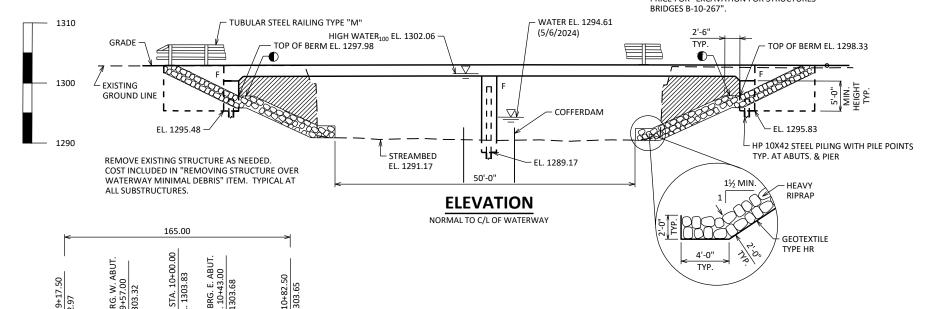
STRUCTURE B-10-267

CENTER ROAD OVER N. FORK POPPLE RIVER CLARK HOARE AASHTO LRFD BRIDGE DESIGN SPECIFICATION NBE CK'D DRS BY

GENERAL PLAN



COST OF EXCAVATION OR FILL IN THE HATCHED AREAS SHALL BE INCLUDED IN THE CONTRACT PRICE FOR "EXCAVATION FOR STRUCTURES



BENCH MARK

C/L OF CENTER ROAD

C/L BRG. PIER

STA. 10+00.00

PROFILE GRADE LINE

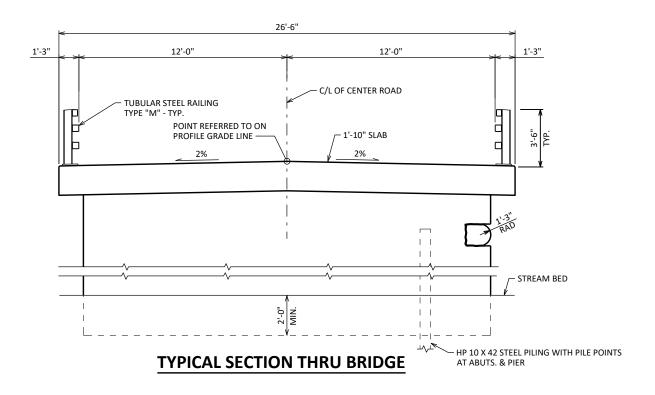
NO.	STATION	DESCRIPTION	ELEV.
50	10+30	120'D' SPIKE IN NE COR OF ABUT, 12' LT	1303.06
51	8+77	RR SPIKE IN N. SIDE OF PPOL, 36' RT	1299.41

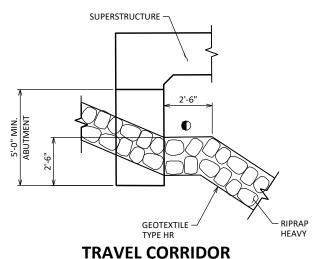
LIST OF DRAWINGS:

- GENERAL PLAN
- TYPICAL SECTION, QUANTITIES, & NOTES
- STRUCTURE DETAILS
- SUBSURFACE EXPLORATION
- WEST ABUTMENT
- WEST ABUTMENT WING DETAILS
- WEST ABUTMENT PILE LAYOUT & BILL OF BARS **EAST ABUTMENT**
- EAST ABUTMENT WING DETAILS EAST ABUTMENT PILE LAYOUT & BILL OF BARS
- 11. PIER SUPERSTRUCTURE 12.
- SUPERSTRUCTURE PLAN 13. TUBULAR STEEL RAILING TYPE "M"

608-261-0261

8881-00-72





MAVEE COMMIDON

FILL VOIDS WITH SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR AFTER RIPRAP IS PLACED.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

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

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

SLAB FALSE WORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATIVE METHOD IS APPROVED BY THE ENGINEER.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-10-267" SHALL BE THE EXISTING GROUNDLINE.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED AS SHOWN IN DETAIL ON SHEET 3 AND APPLY TO THE TOP AND EXTERIOR EXPOSED FACE OF WINGS, AND THE END 1'-0" OF THE FRONT FACE OF ABUTMENTS.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENTS.

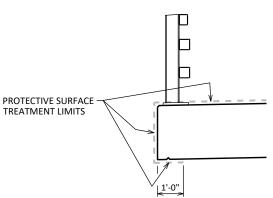
THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLAN AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION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

REMOVE EXISTING SUBSTRUCTURES AS NEEDED TO BUILD NEW SUBSTRUCTURES. COST OF SUBSTRUCTURE REMOVAL IS CONSIDERED INCIDENTAL TO "REMOVING STRUCTURE" BID ITEM.

AT PIER CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH STANDARD SPEC. 502.3.5.3. CONCRETE POURED UNDERWATER SHALL NOT EXCEED 10.0 FEET IN DEPTH, UNLESS APPROVED OTHERWISE.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER	W. ABUT.	PIER	E. ABUT.	TOTALS
203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS (P-10-0075)	EACH					1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-10-267	EACH					1
206.5001	COFFERDAMS (B-10-267)	EACH					1
210.1500	BACKFILL STRUCTURE TYPE A	TON		110		110	220
502.0100	CONCRETE MASONRY BRIDGES	CY	162.9	27.5	28.6	27.5	246.5
502.3200	PROTECTIVE SURFACE TREATMENT	SY	320	10		10	340
502.9000.S	UNDERWATER SUBSTRUCTURE INSPECTION (B-10-267)	EACH					1
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB		1,530	1,380	1,530	4,440
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	29,750	1,360	50	1,360	32,520
506.0105	STRUCTURAL STEEL CARBON	LB	530				530
513.4061	RAILING TUBULAR TYPE M	LF	222				222
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		9		9	18
550.0500	PILE POINTS	EACH		4	7	4	15
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF		180	315	180	675
606.0300	RIPRAP HEAVY	CY		120		120	240
612.0406	PIPE UNDERDRAIN WRAPPED 6 - INCH	LF		90		90	180
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY		20		20	40
645.0120	GEOTEXTILE TYPE HR	SY		190		210	400
SPV.0195	SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR	TON		6		6	12
	NON-BID ITEMS						
	FILLER	SIZE					1/2", 3/4"



PROTECTIVE SURFACE TREATMENT DETAIL

0.	DATE	RE	VISION			BY			
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION								
S	STRUCTURE B-10-267								
DRAWN PLANS BY CLP CK'D						NBE			
TYPICAL SECTION,					SHEET 2 OF 14				
QUANTITIES AND NOTES									

} |

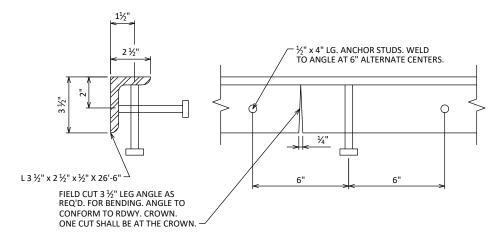
ROADWAY

BRIDGE

SUPERSTRUCTURE

▲ BACKFILL PAY LIMITS. BACKFILL BEYOND PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

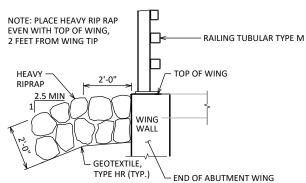
■ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.



PROTECTION ANGLE DETAIL

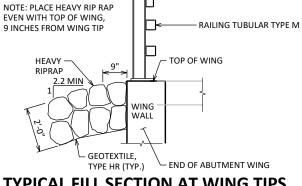
ANGLE AND STUDS TO BE PAID FOR AT THE UNIT PRICE BID FOR "STRUCTURAL STEEL CARBON". (NO PAINT REQ'D.)

SANDBLAST PROTECTION ANGLE AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING" AFTER BLAST CLEANING. THE PROTECTION ANGLE SHALL BE HOT DIPPED GALVANIZED.



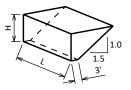
TYPICAL FILL SECTION AT WING TIPS

WINGS 1 & 4



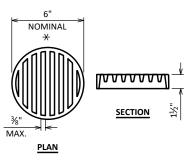
TYPICAL FILL SECTION AT WING TIPS

WINGS 2 & 3



ABUTMENT BACKFILL DIAGRAM

- = OUT TO OUT OF ABUTMENT BODY INCLUDING WINGS (FT) = AVERAGE ABUTMENT FILL HEIGHT (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)
- $V_{CY} = V_{CF}(EF)/27$
- $V_{TON} = V_{CY}(2.0)$

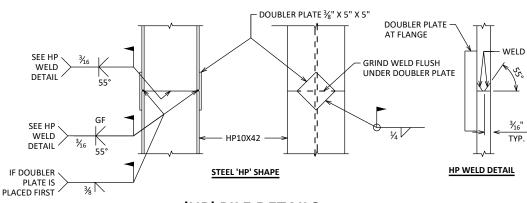


RODENT SHIELD DETAIL

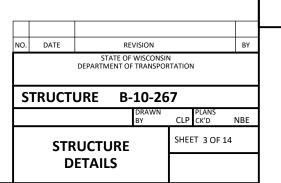
COUPLING. ORIENT SO SLOTS ARE VERTICAL.

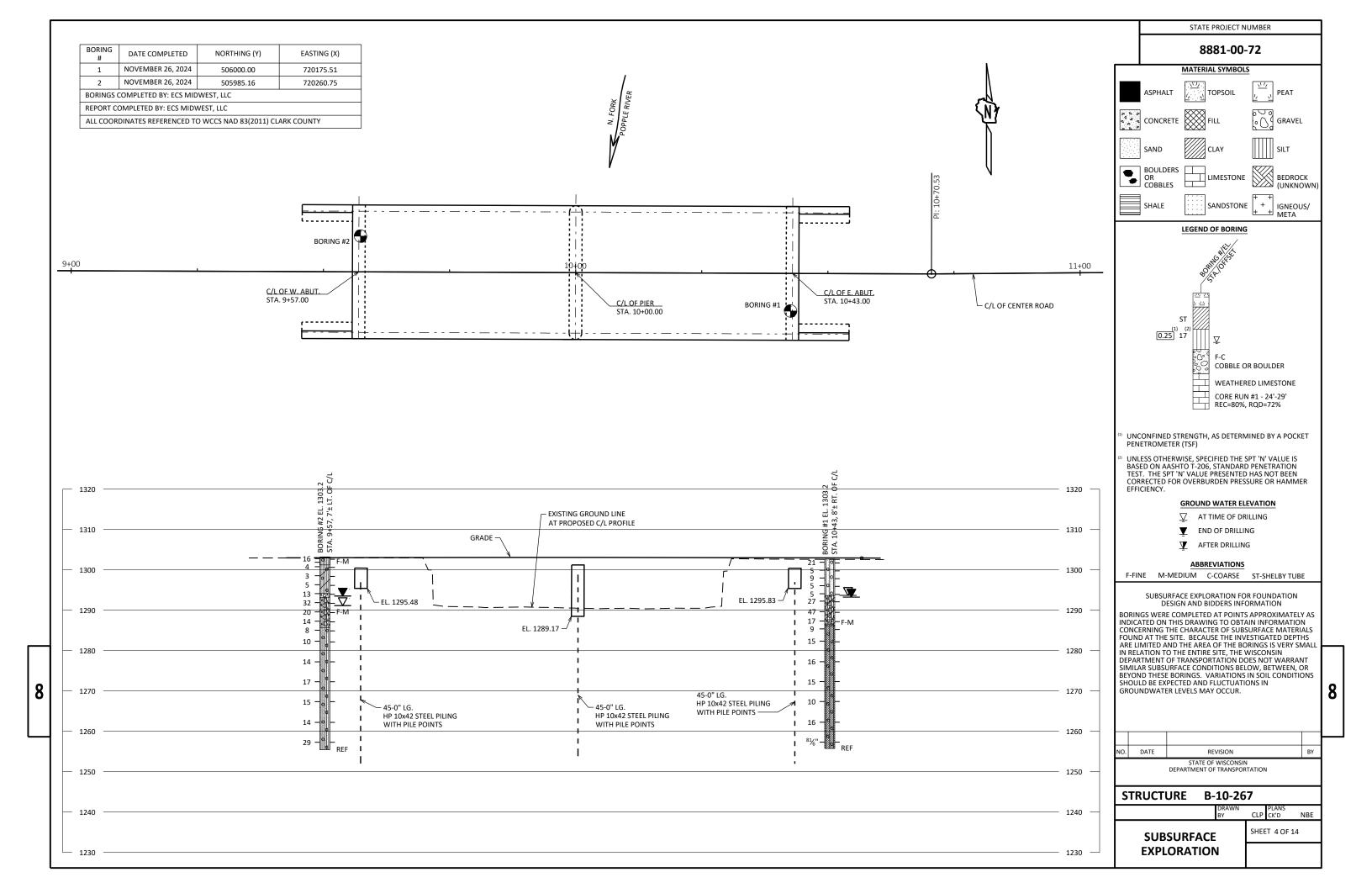
THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS 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.



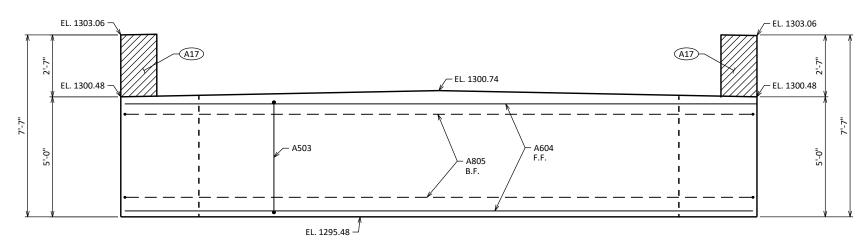
'HP' PILE DETAILS





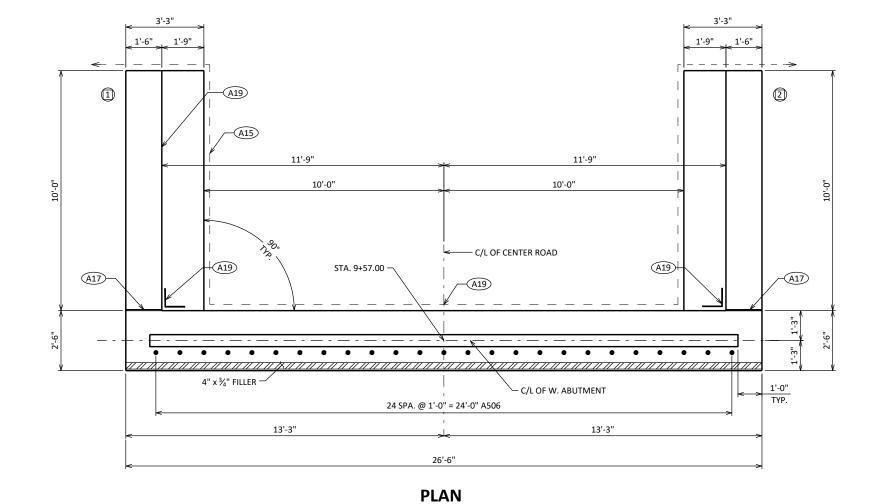


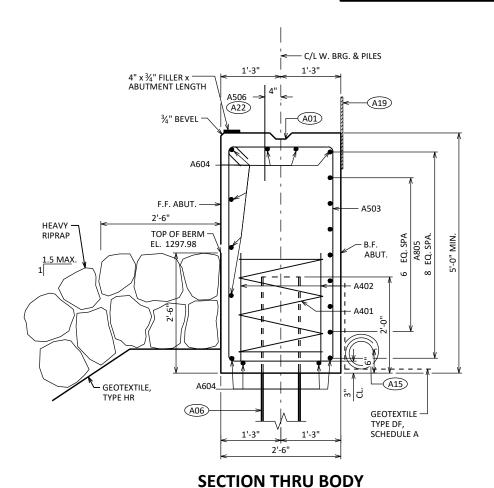
8881-00-72



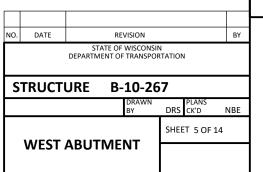
ELEVATION





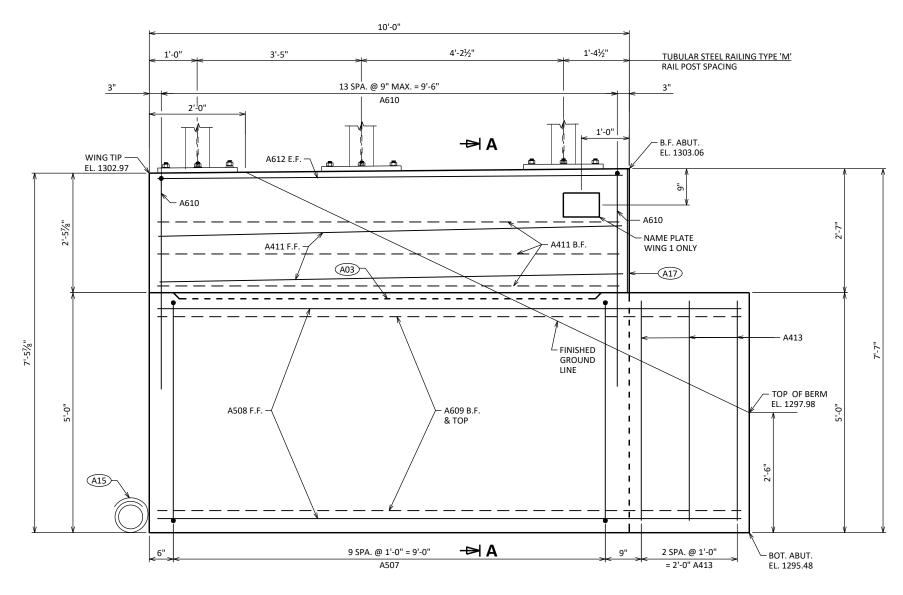


- (A01) CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 x 6.
- SUPPORT ABUTMENT ON HP 10 X 42 STEEL PILING WITH PILE POINTS, ESTIMATED 45'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 160 TONS PER PILE. (A06)
- PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.
- ½" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ½" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE. (A17)
- A19 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.
- BARS @ 1'-0" CTRS. BETWEEN BEAM SEATS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

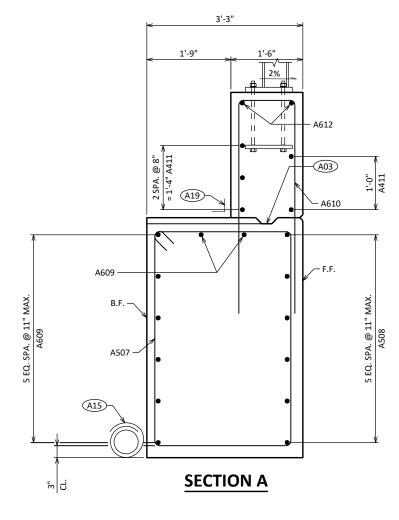


STATE PROJECT NUMBER

8881-00-72



RAILING TUBULAR TYPE M NOT SHOWN. FOR DETAILS SEE SHEET 14



ELEVATION - WING 1

(WING 1 SHOWN - WING 2 SIMILAR)

A03 OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" RMW @ B.F. & ¾" "V" GROOVE @ F.F. IF JOINT IS USED).

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

½" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ½" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

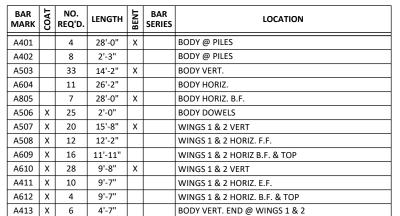
NO.	DATE	TE REVISION						
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION							
S	STRUCTURE B-10-267							
	DRAWN BY				PLANS CK'D	NBE		
	WEST ABUTMENT WING DETAILS				SHEET 6 OF 14			

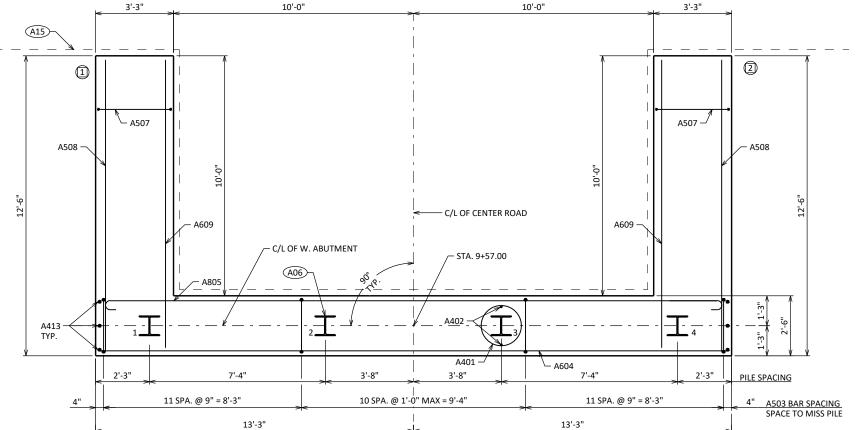
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8881-00-72

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

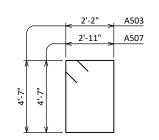




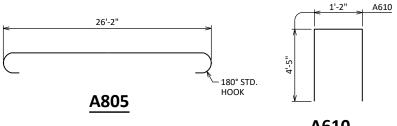
26'-6"

PILE LAYOUT

13'-3" 5 WRAP -SPIRAL A401



A503 **A507**

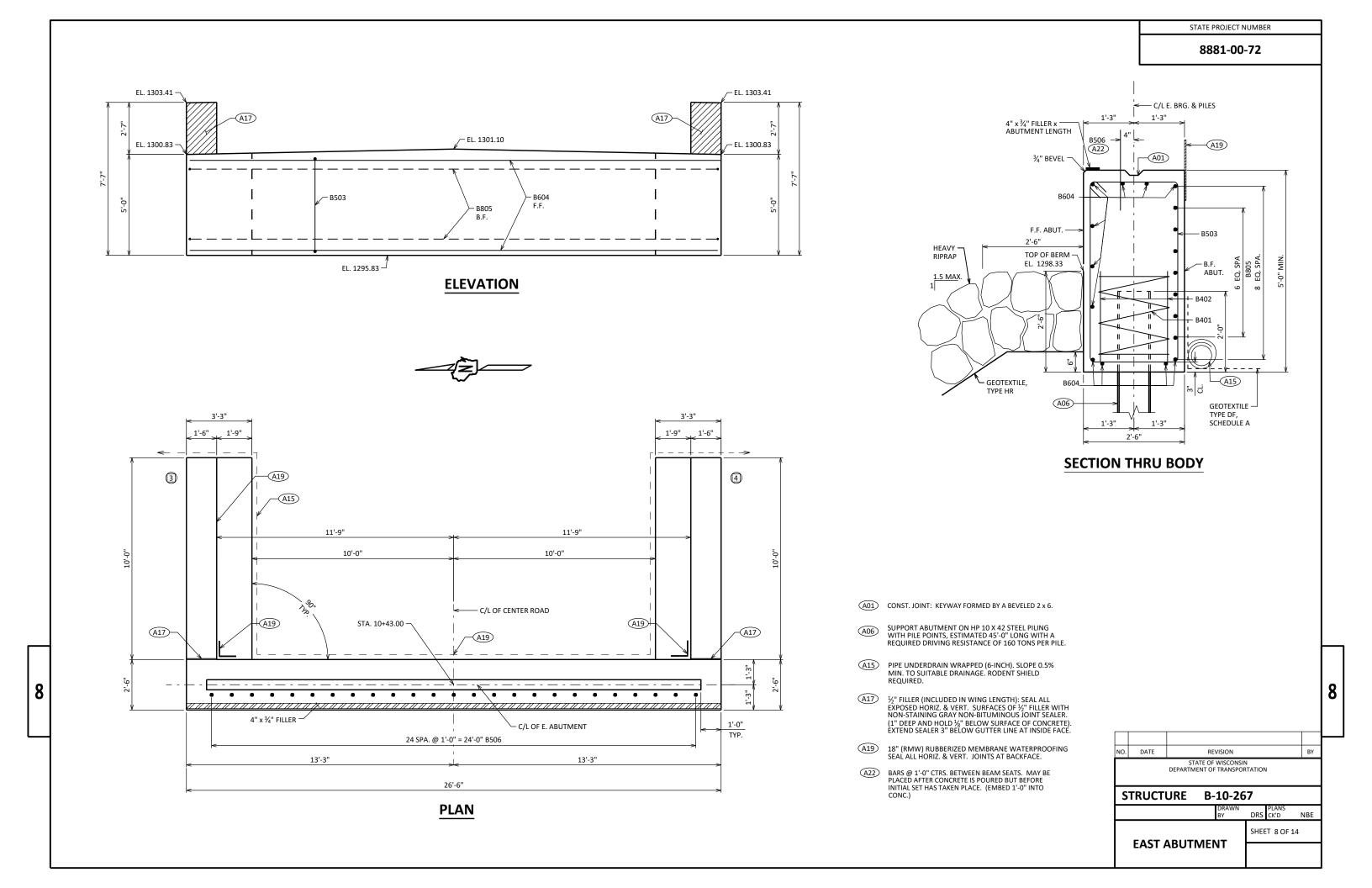


A610

SUPPORT ABUTMENT ON HP 10 X 42 STEEL PILING WITH PILE POINTS, ESTIMATED 45'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 160 TONS PER PILE.

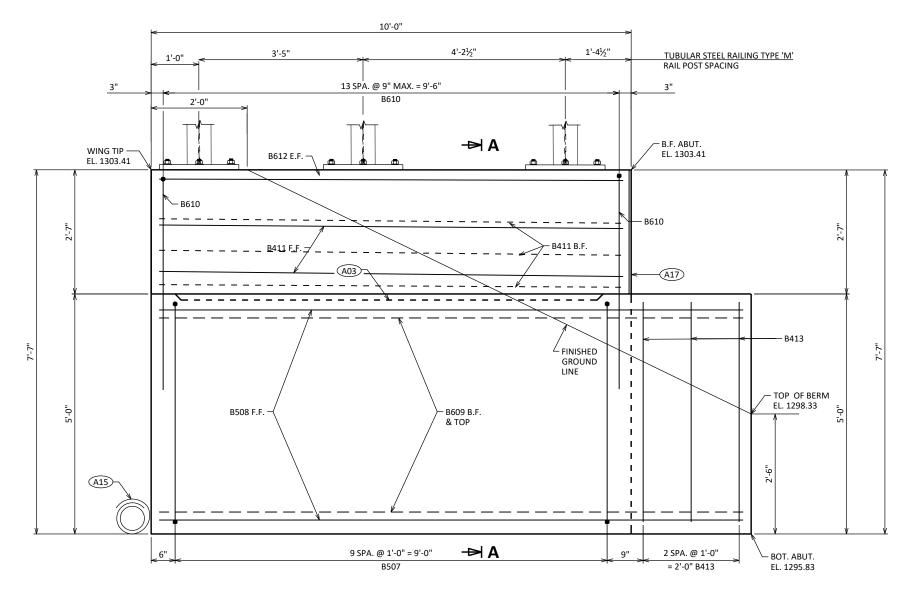
PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

Ο.	D. DATE REVISION								
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION								
STRUCTURE B-10-267									
			DRS	PLANS CK'D	NBE				
WEST ABUTMENT				SHEET 7 OF 14					
PILE LAYOUT & BILL OF BARS									

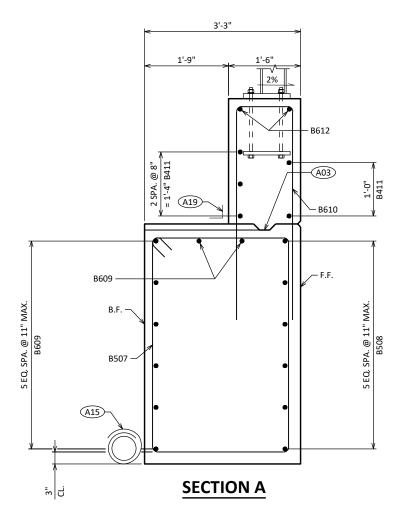


STATE PROJECT NUMBER

8881-00-72



RAILING TUBULAR TYPE M NOT SHOWN. FOR DETAILS SEE SHEET 14



ELEVATION - WING 3

(WING 3 SHOWN - WING 4 SIMILAR)

(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" RMW @ B.F. & ¾" "V" GROOVE @ F.F. IF JOINT IS USED).

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A17) ½" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ½" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

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	WIN	G DETAIL	S									

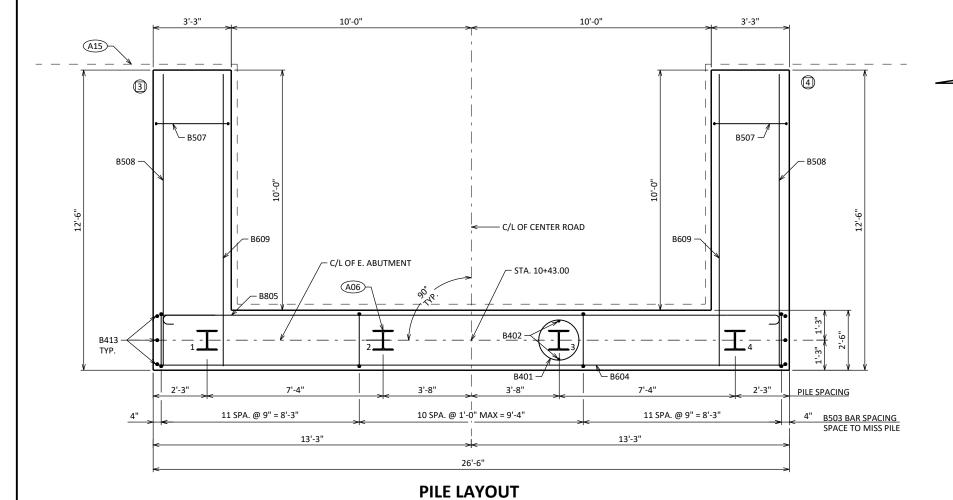
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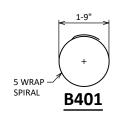


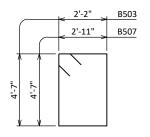


NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

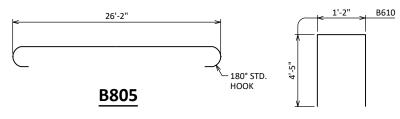
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B401		4	28'-0"	Х		BODY @ PILES
B402		8	2'-3"			BODY @ PILES
B503		33	14'-2"	Х		BODY VERT.
B604		11	26'-2"			BODY HORIZ.
B805		7	28'-0"	Х		BODY HORIZ. B.F.
B506	Х	25	2'-0"			BODY DOWELS
B507	Х	20	15'-8"	Х		WINGS 3 & 4 VERT
B508	Х	12	12'-2"			WINGS 3 & 4 HORIZ. F.F.
B609	Х	16	11'-11"			WINGS 3 & 4 HORIZ B.F. & TOP
B610	Х	28	9'-8"	Х		WINGS 3 & 4 VERT
B411	Х	10	9'-7"			WINGS 3 & 4 HORIZ. E.F.
B612	Х	4	9'-7"			WINGS 3 & 4 HORIZ. B.F. & TOP
B413	Х	6	4'-7"			BODY VERT. END @ WINGS 3 & 4







B503 B507



B610

SUPPORT ABUTMENT ON HP 10 X 42 STEEL PILING WITH PILE POINTS, ESTIMATED 45'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 160 TONS PER PILE.

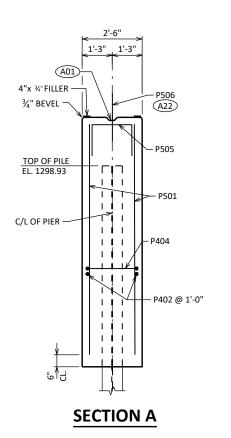
A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

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EAST ABUTMENT
PILE LAYOUT & BILL
OF BARS



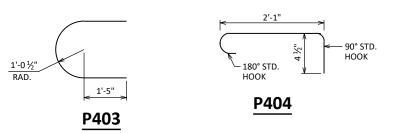


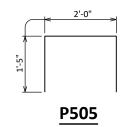
BILL OF BARS

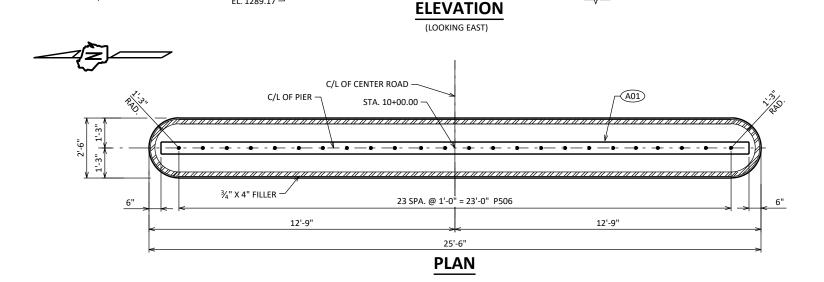
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
P501		54	11'-7"			COLUMN VERT.
P402		26	23'-0"			COLUMN HORIZ.
P403		26	6'-1"	Х		COLUMN HORIZ.
P404		84	2'-10"	Х		COLUMN TIES
P505		13	4'-7"	Х		COLUMN TOP
P506	х	24	2'-0"			COLUMN DOWELS

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.







EL. 1301.68 —

5 SPA. @ 2'-0" = 10'-0" P505

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P403 -

5 SPA. @ 2'-0" = 10'-0" P505

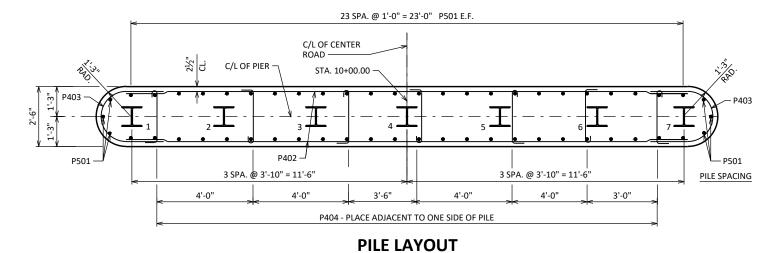
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EL. 1301.42 —

P501

- P403

EL. 1289.17 -



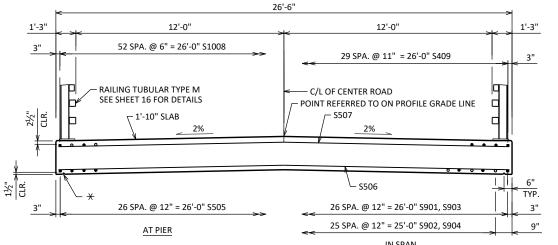
A01 CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 x 6.

SUPPORT ABUTMENT ON HP 10 X 42 STEEL PILING WITH PILE POINTS, ESTIMATED 45'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE.

BARS @ 1'-0" CTRS. BETWEEN BEAM SEATS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

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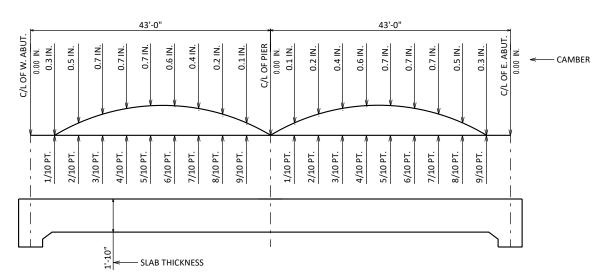
TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

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

¾" V-GROOVE. EXTEND V-GROOVE TO 6" FROM F.F.

V-GROOVES ARE REQUIRED.

TYPICAL SECTION THRU BRIDGE



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.

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

TOP OF SLAB ELEVATION AT FINAL GRADE

SLAB THICKNESS

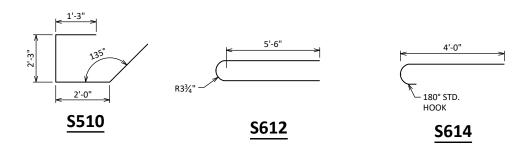
FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)
TOP OF SLAB FALSEWORK ELEVATION

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S901	Х	27	40'-8"			SLAB LONG. BOT. SPAN 1
S902	Х	26	29'-1"			SLAB LONG. BOT. SPAN 1
903	Х	27	40'-8"			SLAB LONG. BOT. SPAN 2
S904	Х	26	29'-1"			SLAB LONG. BOT. SPAN 2
S505	Х	27	12'-0"			SLAB LONG.BOT @ PIER
S506	Х	89	26'-2"			SLAB TRANS. BOT
S507	Х	89	26'-2"			SLAB TRANS. TOP
S1008	Х	53	36'-11"			SLAB LONG. TOP @ PIER
S409	Х	60	21'-6"			SLAB LONG. TOP
S510	Х	54	7'-7"	Х		SLAB @ ABUT. DIAPHRAGM STIRRUPS
S511	Х	4	26'-2"			SLAB @ ABUT. DIAPHRAGM TRANS.
S612	Х	60	12'-0"	Х		SLAB @ RAIL POSTS
S613	Х	104	6'-0"			SLAB AT INT. RAIL POSTS
S614	Χ	16	4'-8"	Х		SLAB AT END RAIL POSTS

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.



SURVEY TOP OF SLAB ELEVATIONS

	ABUTMENT	<u>5/10 PT.</u>	PIER	<u>5/10 PT.</u>	ABUTMENT
N. EDGE OF SLAB					
C/L OF CENTER ROAD					
S. EDGE OF SLAB					

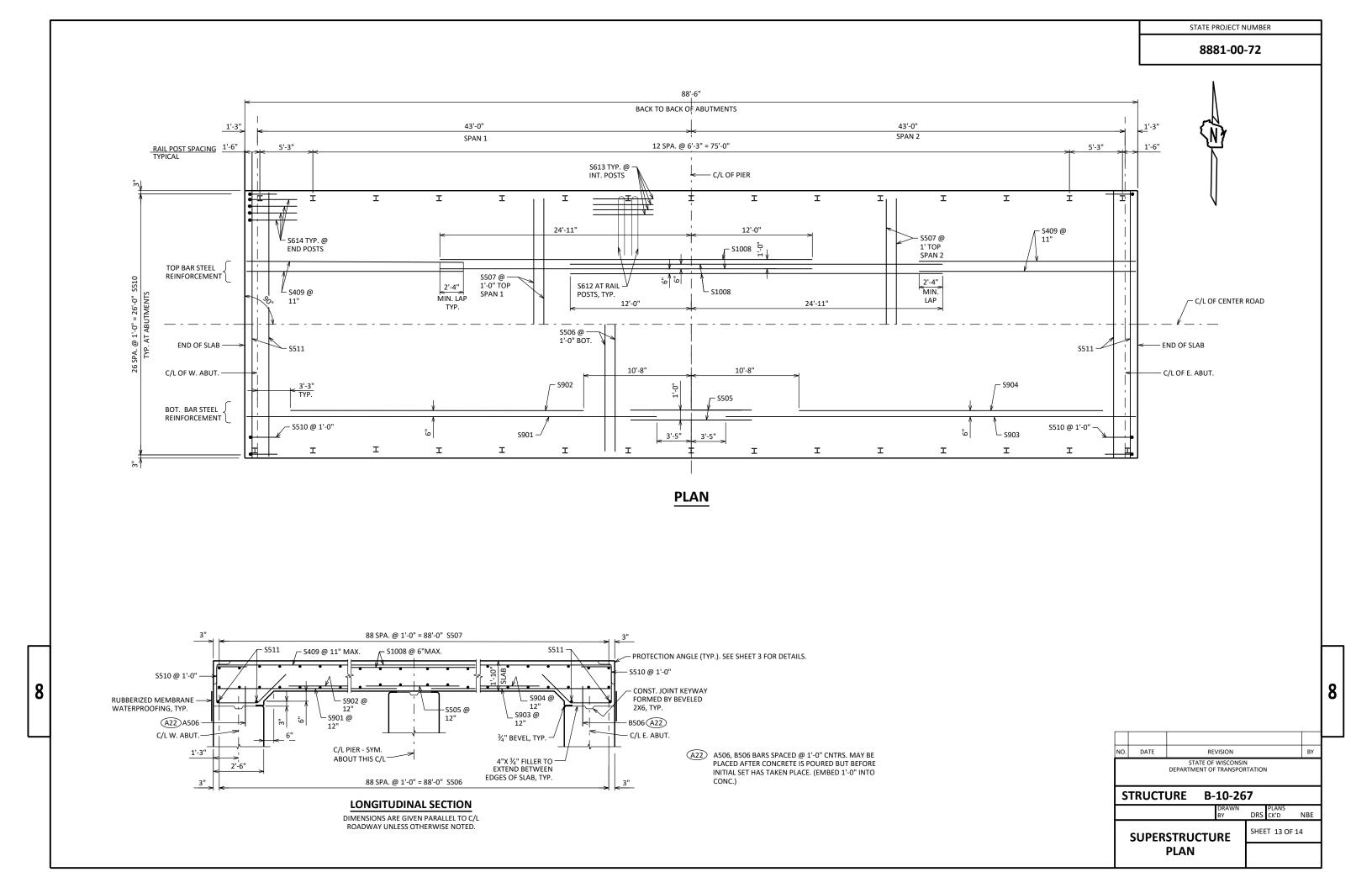
PRIOR TO RELEASING SLAB FORMWORK, TAKE TOP OF SLAB ELEVATIONS AT THE C/L OF SUBSTRUCTURES, AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND C/L. RECORD ELEVATIONS IN THE TABLE ABOVE FOR THE "AS BUILT" PLANS.

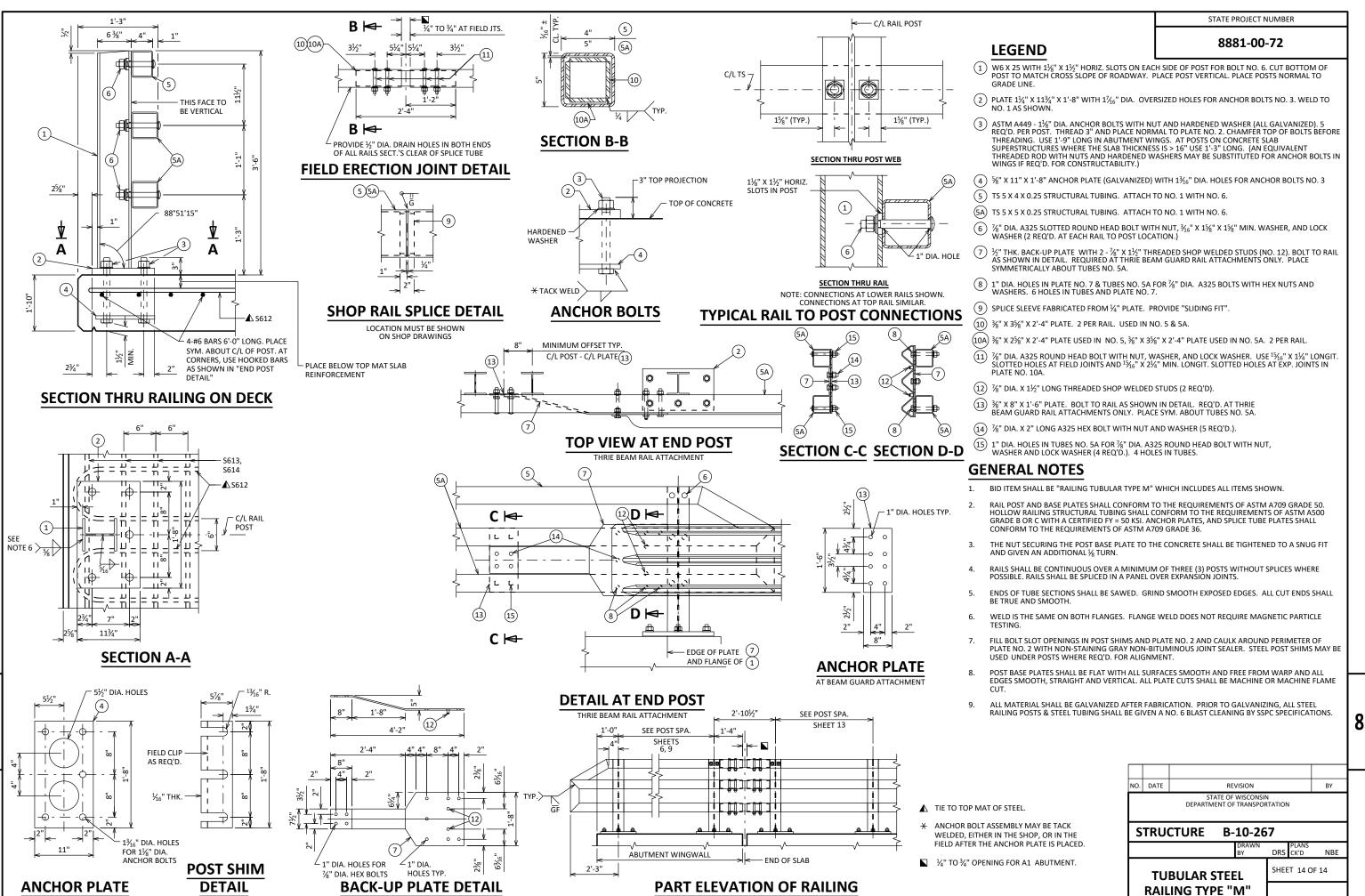
TOP OF SLAB ELEVATIONS

LOCATION	C/L W. ABUT.	⅓ ₁₀ PT.	⅔ ₁₀ PT.	³⁄₁₀ PT.	⁴ ∕ ₁₀ PT.	5∕ ₁₀ PT.	%₁₀ PT.	⅓ ₁₀ PT.	%₁₀ PT.	%₁₀ PT.	C/L PIER	⅓ ₁₀ PT.	⅔ ₁₀ PT.	¾ ₁₀ PT.	⅓ ₁₀ PT.	5∕ ₁₀ PT.	%₁₀ PT.	⅓ ₁₀ PT.	%₁ ₀ PT.	%₁₀ PT.	C/L E. ABUT.
N. EDGE OF SLAB	1303.06	1303.09	1303.12	1303.15	1303.17	1303.20	1303.22	1303.25	1303.27	1303.28	1303.31	1303.32	1303.34	1303.35	1303.36	1303.38	1303.39	1303.39	1303.40	1303.41	1303.41
C/L CENTER ROAD	1303.32	1303.35	1303.38	1303.41	1303.44	1303.46	1303.49	1303.51	1303.53	1303.55	1303.57	1303.59	1303.60	1303.62	1303.63	1303.64	1303.65	1303.66	1303.67	1303.67	1303.68
S. EDGE OF SLAB	1303.06	1303.09	1303.12	1303.15	1303.17	1303.20	1303.22	1303.25	1303.27	1303.28	1303.31	1303.32	1303.34	1303.35	1303.36	1303.38	1303.39	1303.39	1303.40	1303.41	1303.41

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AT RAIL TO DECK CONNECTION

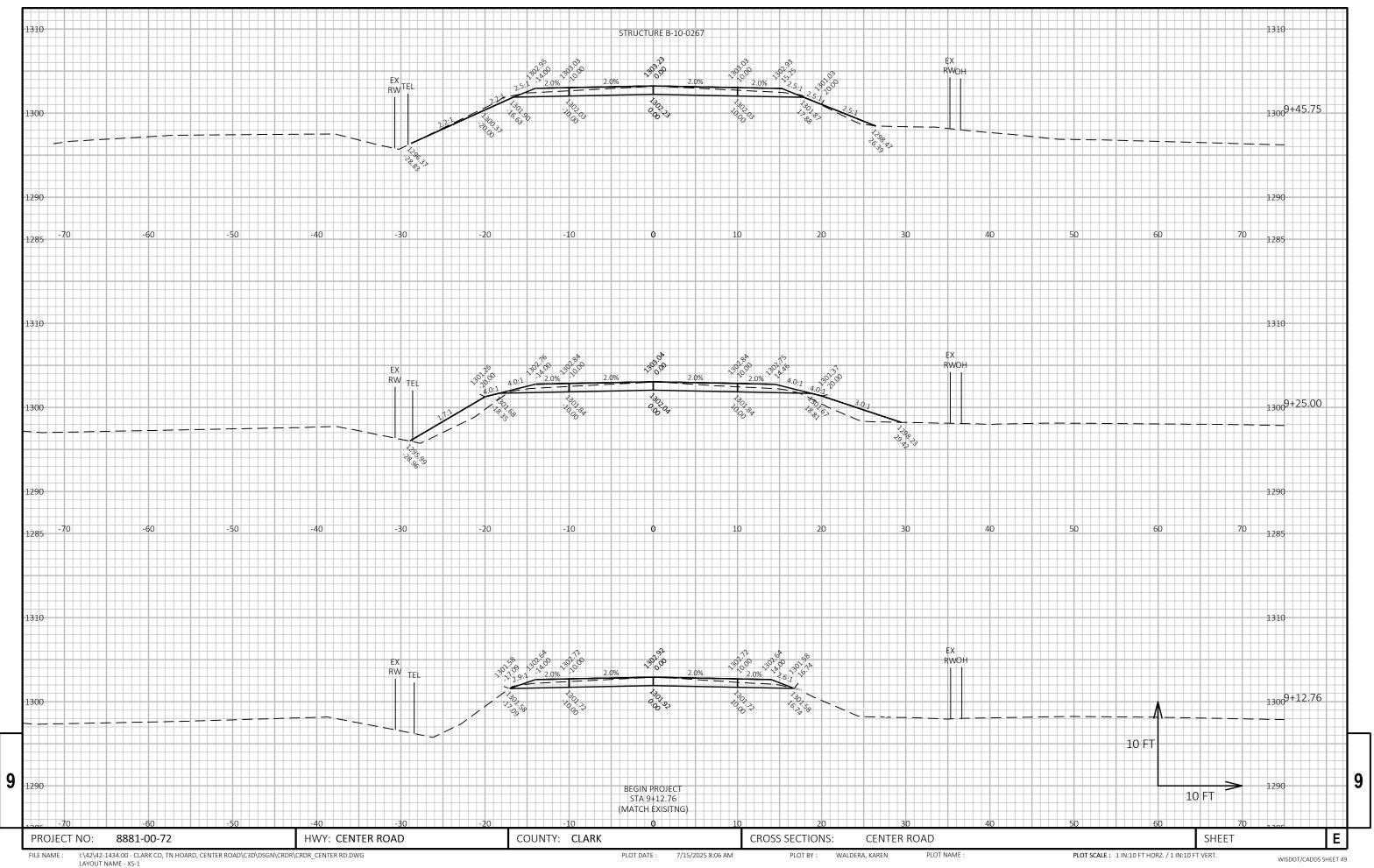
CENTER ROAD COMPUTER EARTHWORK

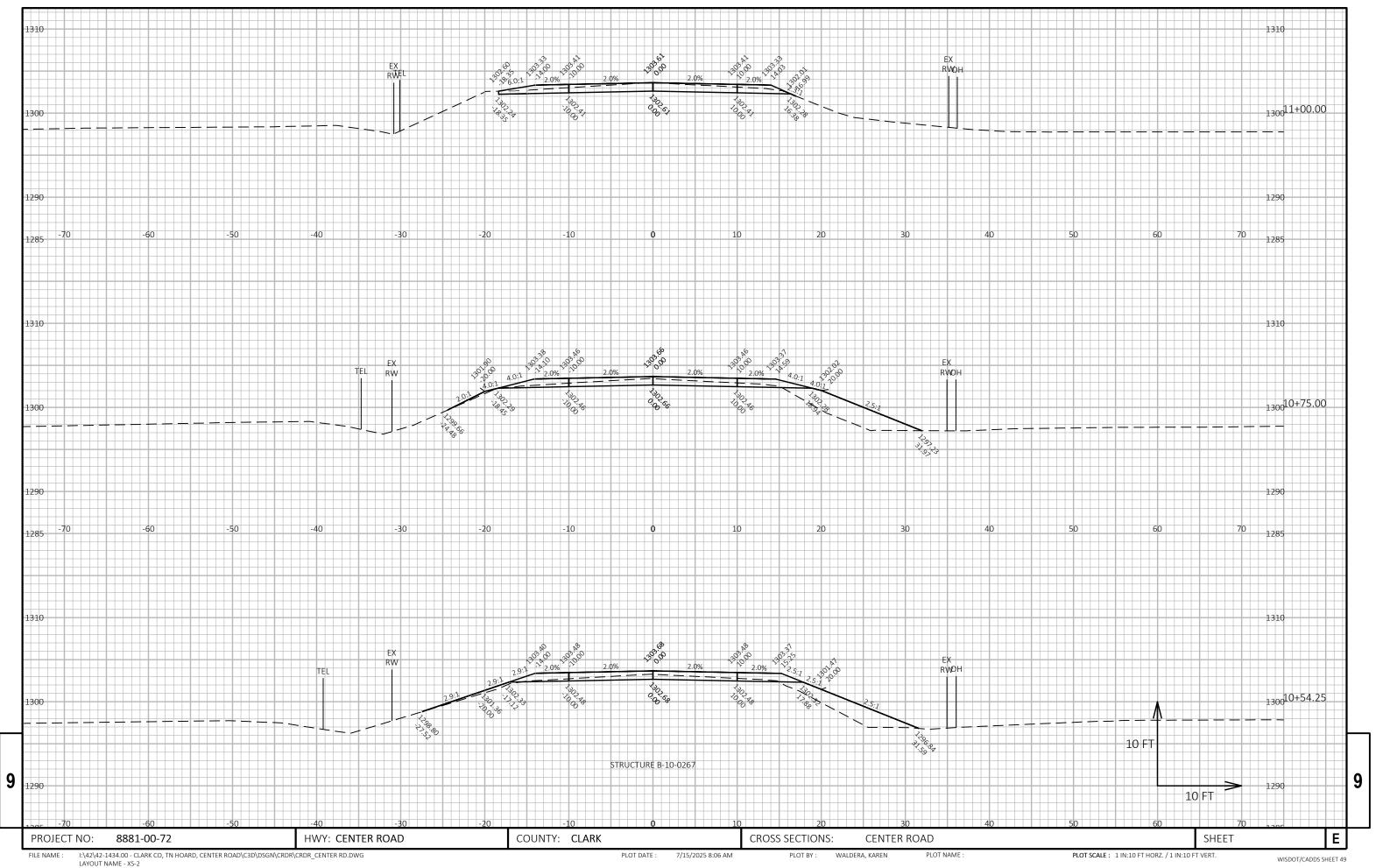
CENTER ROAD COMPUTER EARTHWORK												
		Area	(SF)	Incremental Vol	(CY) (Unadjusted)	Cumulati						
Station	Distance	Cut	Fill	Cut	Fill	Cut 1.00	Expanded Fill 1.30	Mass Ordinate				
				Note 1	Note 2	Note 5		Note 3				
9+12.76		23.2	0.0									
9+25	12.24	23.0	24.1	10	5	10	7	3				
9+45.75	20.75	26.1	1.8	19	10	29	20	9				
9+55.75	10.00	26.1	1.8	10	1	39	21	18				
BRIDGE												
10+44.25		10.7	24.6									
10+54.25	10.00	10.7	24.6	4	9	43	33	10				
10+75	20.75	15.9	28.1	10	20	53	59	-6				
11+00	25.00	23.7	0.0	18	13	72	76	-4				
11+01.26	1.26	23.9	0.0	1	0	73	76	-3				
				73	50							

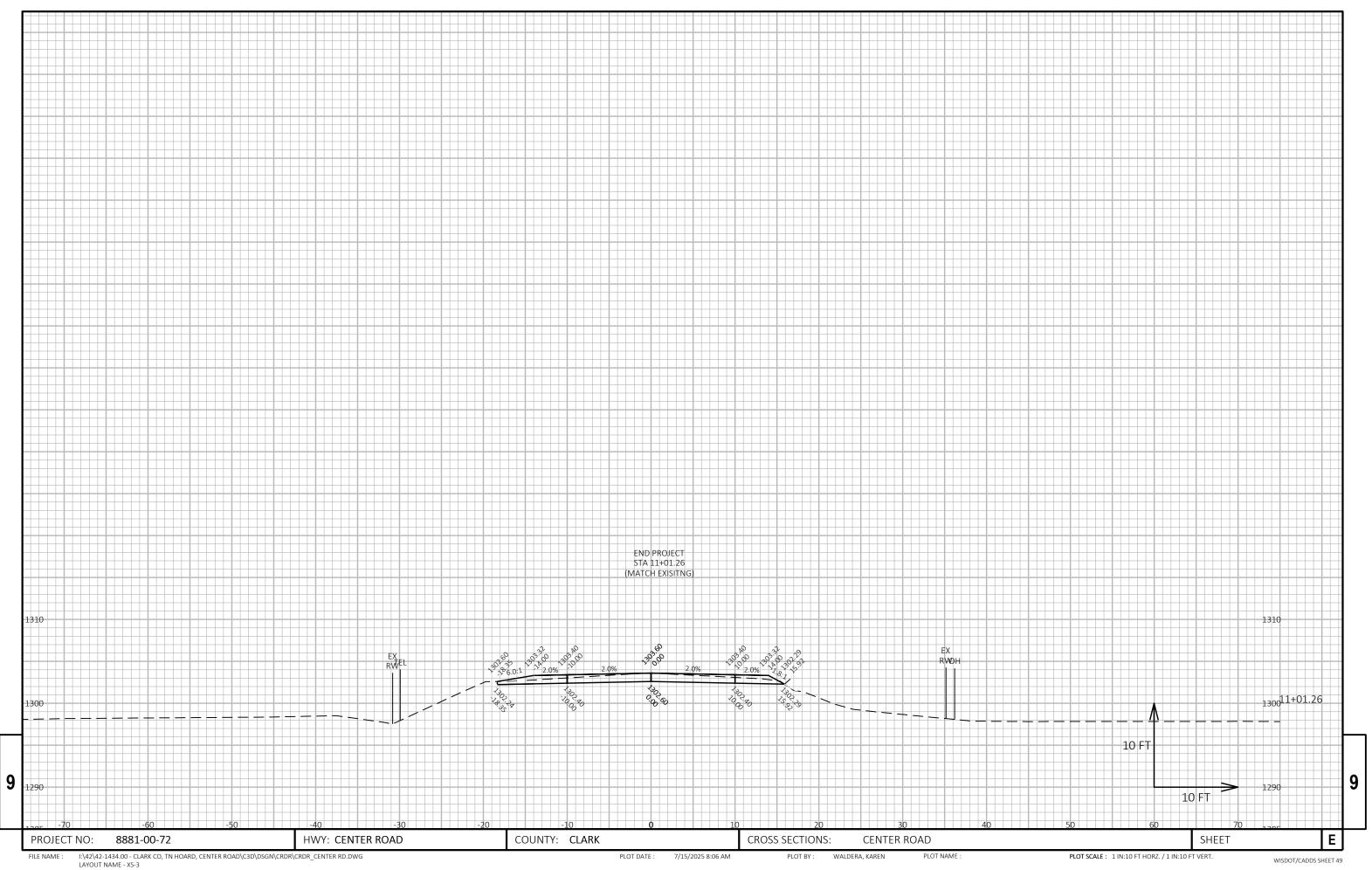
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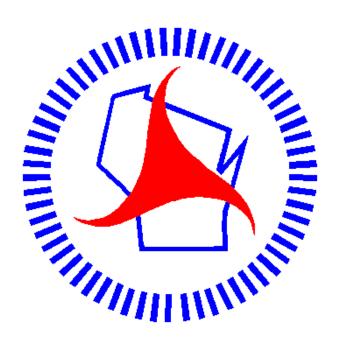
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PROJECT NUMBER: 8881-00-72 HWY: CENTER ROAD COUNTY: CLARK COMPUTER EARTHWORK DATA SHEET NO: 1 **E**









Wisconsin Department of Transportation

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