FEBRUARY 2025

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

Plan and Profile

Section No.

Section No.

Section No.

TOTAL SHEETS = 46

DESIGN DESIGNATION

(2025)

(2045)

CONVENTIONAL SYMBOLS

= <100

= <100 = 10

= 50/50 = 5%

= 45 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.

884-00-72

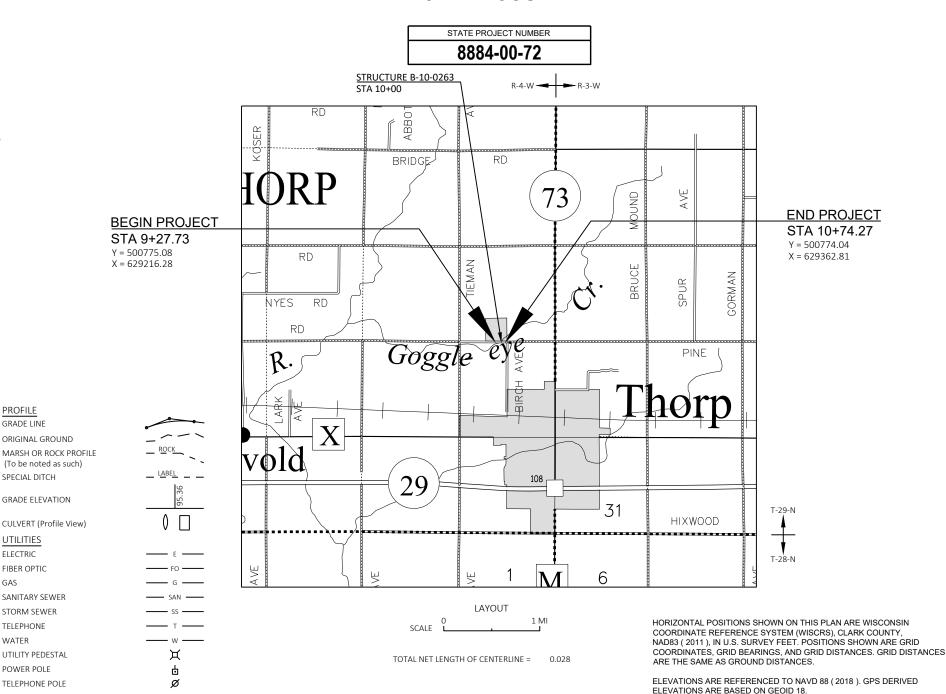
STATE OF WISCONSIN ORDER OF SHEETS **DEPARTMENT OF TRANSPORTATION** Section No. Typical Sections and Details Section No. Estimate of Quantities

PLAN OF PROPOSED IMPROVEMENT

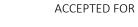
T THORP, PINE ROAD

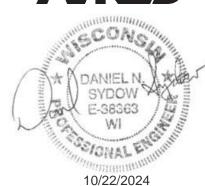
GOGGLE-EYE CREEK BRIDGE B-10-0263

LOC STR CLARK COUNTY



FEDERAL PROJECT STATE PROJECT CONTRACT PROJECT 8884-00-72 WISC 2025338





STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY Surveyor

AYRES ASSOCIATES INC Designer Project Manage

ATF: 10/28/2024

GRADE LINE

ORIGINAL GROUND

SPECIAL DITCH

UTILITIES

FIBER OPTIC

SANITARY SEWER

STORM SEWER

POWER POLE

TELEPHONE POLE

ELECTRIC

GRADE ELEVATION

CULVERT (Profile View)

(To be noted as such)

10/14/2024 11:55 AM

UTILITIES CONTACTS

BRIGHT SPEED BRIAN HUHN 425 ELLINGSON AVENUE HAWKINS, WI 54530 PHONE: 608-615-7347 CELL: 715-563-8294

EMAIL: brian.huhn@brightspeed.com

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

WISCONSIN DNR LIAISON

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

TOWN CONTACT

LOUIS ANDRUSZKIEWICZ CHAIRMAN, TOWN OF THORP N15156 TIEMAN AVENUE THORP, WI 54771 PHONE: 715-669-3633 EMAIL: louisandruszkiewicz1@gmail.com

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

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.

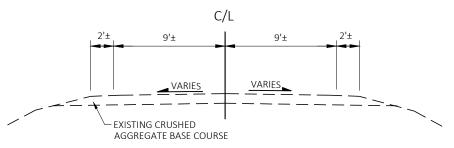
RUNOFF COEFFICIENT TABLE

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

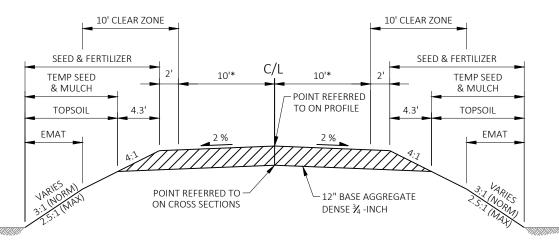
TOTAL PROJECT AREA = <u>0.222</u> ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.151 ACRES

PROJECT NO: 8884-00-72 HWY: PINE ROAD COUNTY: CLARK **GENERAL NOTES** SHEET Ε I:\42\42-1382.00 - CLARK CO, TN THORP, PINE ROAD OVER GOGGLE-EYE CREEK\C3D\SHEETS\020101-GN.DWG PLOT NAME : PLOT SCALE : FILE NAME : PLOT DATE: 9/4/2024 2:26 PM PLOT BY: WALDERA, KAREN WISDOT/CADDS SHEET 42



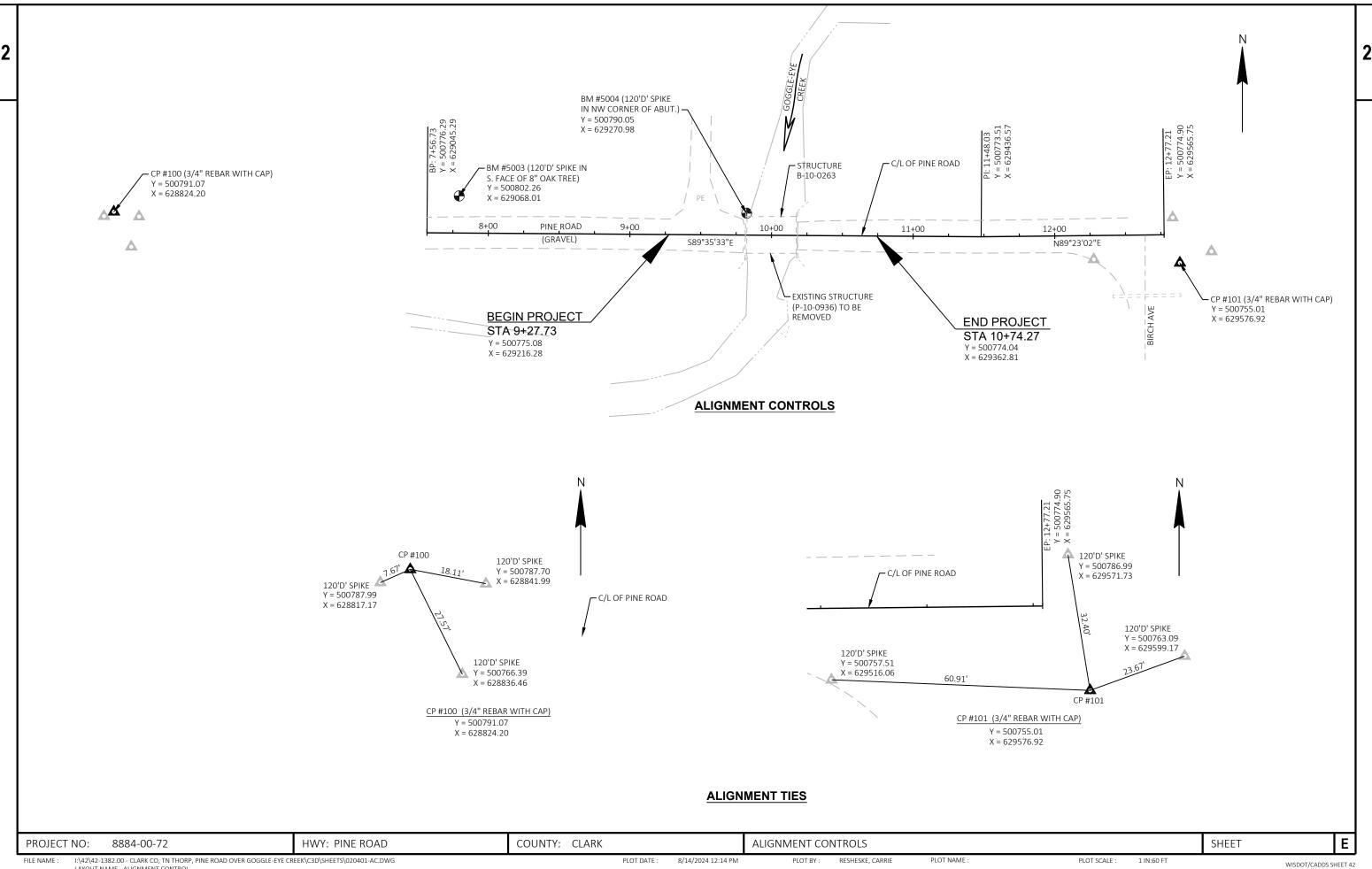
EXISTING TYPICAL SECTION PINE ROAD



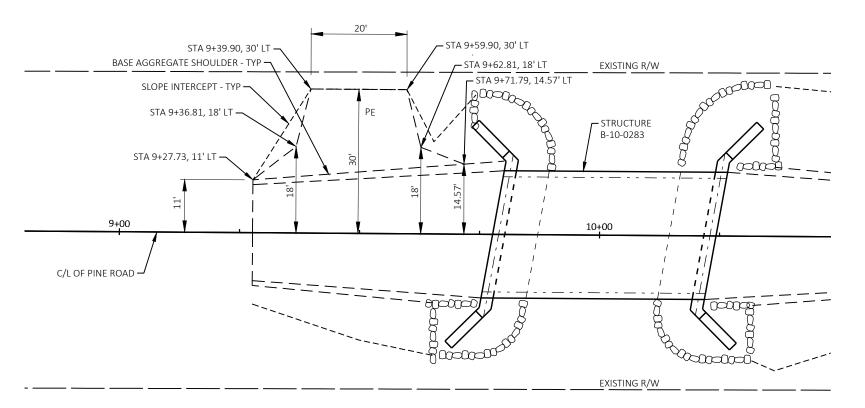
FINISHED TYPICAL SECTION

PINE ROAD STA 9+27.73 TO STA 9+77.73 STA 10+24.27 TO STA 10+74.27 *THE BASE AGGREGATE LANE SHALL TAPER FROM 13.25' WIDE AT THE ENDS OF THE BRIDGE TO 10' WIDE AT 50' FROM THE END OF THE BRIDGE AND THE OVERALL BASE AGGREGATE WIDTH TO MATCH EXISTING AT THE ENDS OF THE PROJECT.

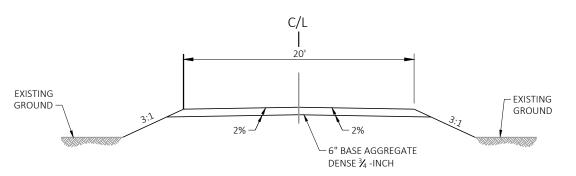
PROJECT NO: COUNTY: CLARK Ε 8884-00-72 HWY: PINE ROAD TYPICAL SECTIONS SHEET 12/12/2024 2:51 PM FILE NAME :



 $oxed{2}$

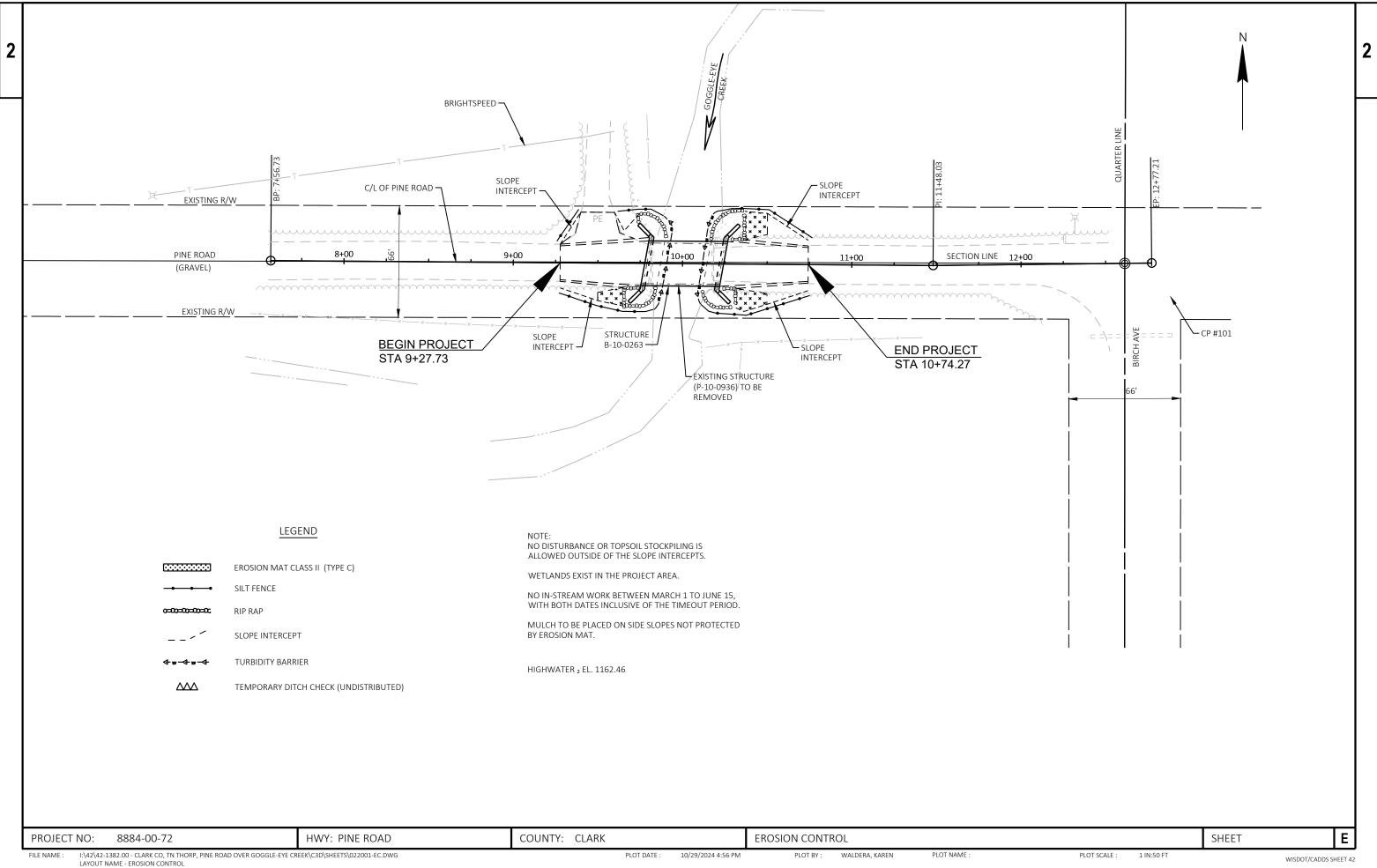


PLAN STA 9+50, LT



TYPICAL CROSS SECTION

PRIVATE ENTRANCE DETAILS 8884-00-72 COUNTY: CLARK Ε PROJECT NO: HWY: PINE ROAD CONSTRUCTION DETAILS SHEET I:\42\42-1382.00 - CLARK CO, TN THORP, PINE ROAD OVER GOGGLE-EYE CREEK\C3D\SHEETS\021001-CD.DWG LAYOUT NAME - PE FILE NAME : PLOT DATE : 10/29/2024 4:44 PM PLOT BY: WALDERA, KAREN PLOT NAME : PLOT SCALE : 1 IN:20 FT WISDOT/CADDS SHEET 42



					8884-00-72	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0105	Clearing	STA	2.000	2.000	
0004	201.0205	Grubbing	STA	2.000	2.000	
0006	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-10-0936	EACH	1.000	1.000	
8000	205.0100	Excavation Common	CY	99.000	99.000	
0010	205.0508.S	Excavation, Hauling, and Disposal of Potential Creosote Contaminated Soil	TON	102.000	102.000	
0012	206.1001	Excavation for Structures Bridges (structure) 01. B-10-0263	EACH	1.000	1.000	
0014	210.1500	Backfill Structure Type A	TON	330.000	330.000	
0016	213.0100	Finishing Roadway (project) 01. 8884-00-72	EACH	1.000	1.000	
0018	305.0110	Base Aggregate Dense 3/4-Inch	TON	245.000	245.000	
0020	502.0100	Concrete Masonry Bridges	CY	150.000	150.000	
0022	502.3200	Protective Surface Treatment	SY	195.000	195.000	
0024	505.0400	Bar Steel Reinforcement HS Structures	LB	4,140.000	4,140.000	
0026	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	20,030.000	20,030.000	
0028	506.0105	Structural Steel Carbon	LB	500.000	500.000	
0030	513.4061	Railing Tubular Type M	LF	97.700	97.700	
0032	516.0500	Rubberized Membrane Waterproofing	SY	14.000	14.000	
0034	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	300.000	300.000	
0036	606.0300	Riprap Heavy	CY	115.000	115.000	
0038	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	160.000	160.000	
0040	618.0100	Maintenance and Repair of Haul Roads (project) 01. 8884-00-72	EACH	1.000	1.000	
0042	619.1000	Mobilization	EACH	1.000	1.000	
0044	624.0100	Water	MGAL	7.000	7.000	
0046	625.0100	Topsoil	SY	155.000	155.000	
0048	627.0200	Mulching	SY	175.000	175.000	
0050	628.1504	Silt Fence	LF	305.000	305.000	
0052	628.1520	Silt Fence Maintenance	LF	610.000	610.000	
0054	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000	
0056	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000	
0058	628.2027	Erosion Mat Class II Type C	SY	70.000	70.000	
0060	628.6005	Turbidity Barriers	SY	200.000	200.000	
0062	628.7504	Temporary Ditch Checks	LF	56.000	56.000	
0064	629.0210	Fertilizer Type B	CWT	0.300	0.300 14.000	
0066 0068	630.0120 630.0200	Seeding Mixture No. 20	LB LB	14.000 8.000	8.000	
0070	630.0500	Seeding Temporary Seed Water	MGAL	6.000	6.000	
0070	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	4.000	4.000	
0072	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0074	638.2602	Removing Signs Type II	EACH	4.000	4.000	
0078	638.3000	Removing Small Sign Supports	EACH	4.000	4.000	
0080	642.5001	Field Office Type B	EACH	1.000	1.000	
0082	643.0420	Traffic Control Barricades Type III	DAY	1,620.000	1,620.000	
0084	643.0705	Traffic Control Warning Lights Type A	DAY	2,160.000	2,160.000	
0086	643.0900	Traffic Control Signs	DAY	1,080.000	1,080.000	
0088	643.5000	Traffic Control	EACH	1.000	1.000	
0090	645.0111	Geotextile Type DF Schedule A	SY	100.000	100.000	
0092	645.0120	Geotextile Type HR	SY	210.000	210.000	
0094	650.4500	Construction Staking Subgrade	LF	148.000	148.000	
0096	650.5000	Construction Staking Base	LF	148.000	148.000	
0098	650.6501	Construction Staking Structure Layout (structure) 01. B-10-0263	EACH	1.000	1.000	
•			_,			

12/18/2024 09:52:52

Estimate Of Quantities	Page	2
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8884-00-72

Line	Item	Item Description	Unit	Total	Qty
0100	650.9911	Construction Staking Supplemental Control (project) 01. 8884-00-72	EACH	1.000	1.000
0102	650.9920	Construction Staking Slope Stakes	LF	148.000	148.000
0104	715.0502	Incentive Strength Concrete Structures	DOL	900.000	900.000
0106	999.2005.S	Maintaining Bird Deterrent System (station) 01. 10+00	EACH	1.000	1.000
0108	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0110	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0112	SPV.0090	Special 01. Removing Existing Timber Piling	LF	75.000	75.000

12024 09.52.52

			CLEARING & GRUBBING	<u>3</u>						
STATION	TO	STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA					
9+00	-	11+00	MAINLINE	2	2					
			TOTAL 0010	2	2					
NOTE: CUTTI	NOTE: CUTTING TREES TO BE DONE BY OTHERS PRIOR TO CONSTRUCTION. CLEAR CUT TREES.									
EXCA	EXCAVATION, HAULING, AND DISPOSAL OF POTENTIAL CREOSOTE CONTAMINATED SOIL									
	205.0508.S EXCAVATION, HAULING, AND									

DISPOSAL OF POTENTIAL CREOSOTE

CONTAMINATED SOIL

TON

102

102

MAINTENANCE AND	REPAIR OF	HAUL ROADS

From/To Station

9+27.73 - 9+77.73

10+24.27 - 10+74.27

4) All quantities shown in CY.

MOBILIZATION 618.0100.01 MAINTENANCE AND REPAIR 619.1000 OF HAUL ROADS (PROJECT) MOBILIZATION (01.8884-00-72) LOCATION EACH CATEGORY LOCATION EACH PROJECT LIMITS 1 PROJECT LIMITS 1 0030 **TOTAL 0010 TOTAL 0030**

FINISHING ROADWAY

LOCATION

MAINLINE

TOTAL 0010

STATION TO STATION

10+24

9+98

213.0100.01
FINISHING ROADWAY
(PROJECT) (01.8884-00-72)
PROJECT EACH

8884-00-72 1

TOTAL 0010 1

WATER

628.1504 628.1520 628.2027 628.6005 628.7504 624.0100 SILTFENCE **EROSION MAT** TURBIDITY TEMPORARY WATER SILTFENCE MAINTENANCE CLASS II TYPE C BARRIERS DITCH CHECKS LOCATION MGAL STATION TO STATION LOCATION LF SY SY LF COMPACTION 55 9+28 10+74 MAINLINE 245 490 160 DUST CONTROL UNDISTRIBUTED 60 120 15 40 56 **TOTAL 0010** 305 610 70 200 **TOTAL 0010** 56

PINE ROAD EARTHWORK SUMMARY

Unexpanded

Fill

35

Excavation Common

(1)

205.0100

Cut

54

99

3) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material on the project.

Location

PINE ROAD

PINE ROAD

1) Excavation Common is the Cut. Item number 205.0100.

TOTAL

2) Expanded Fill. Factor = 1.30; Expanded Fill = Unexpanded Fill * Fill Factor

BASE AGGREGATE DENSE 3/4-INCH

305.0110 BASE AGGREGATE DENSE 3/4-INCH STATION TO STATION LOCATION 110 9+28 9+78 MAINLINE 10+24 10+74 MAINLINE 115 9+50 DRWY, LT 20 **TOTAL 0010** 245

MOBILIZATIONS EROSION CONTROL

	628.1905	628.1910
	020.1303	MOBILIZATIONS
	MOBILIZATIONS	EMERGENCY
	EROSION	EROSION
	CONTROL	CONTROL
LOCATION	EACH	EACH
PROJECT LIMITS	4	4
TOTAL 0010	4	4

RESTORATION ITEMS

EROSION CONTROL ITEMS

Mass

Ordinate

+/- (3)

Waste

47

Expanded Fill

(2)

Factor 1.30

8

38

46

					625.0100 TOPSOII	627.0200 MUI CHING	629.0210 FERTILIZER TYPE B	630.0120 SEEDING MIXTURE NO. 20	630.0200 SEEDING	630.0500 SFFD WATER
	STATION	ТО	STATION	LOCATION	SY	SY	CWT	LB	LB	MGAL
-										
	9+28	-	9+78	MAINLINE	45	25	0.1	4	2	2
	10+24	-	10+74	MAINLINE	80	115	0.1	7	4	3
				UNDISTRIBUTED	30	35	0.1	3	2	1
				TOTAL 0010	155	175	0.3	14	8	6

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJECT NO: 8884-00-72 HWY: PINE ROAD COUNTY: CLARK MISCELLANEOUS QUANTITIES SHEET E

C	IGN	ıc	TV	D	11

		SIGN	SIGN SIZE	634.0614 POSTS WOOD 4X6-INCH X 14-FT	637.2230 SIGNS TYPE II REFLECTIVE F	638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS
STATION	LOCATION	CODE	(INCHES)	EACH	SF	EACH	EACH
9+80	LT	W5-52L	12x36	1	3	1	1
9+75	RT	W5-52R	12x36	1	3	1	1
10+27	LT	W5-52L	12x36	1	3	1	1
10+22	RT	W5-52R	12x36	1	3	1	1
	TOTAL 0010			4	12	4	4

TRAFFIC CONTROL

FIELD OFFICE	TYPE B				643.0420		643.0705		643.0900	643.5000
					TRAFFIC		TRAFFIC			
	642.5001				CONTROL		CONTROL		TRAFFIC	
	FIELD OFFICE				BARRICADES		WARNING		CONTROL	TRAFFIC
	TYPEB		DURATION		TYPEIII		LIGHTS TYPE A		SIGNS	CONTROL
LOCATION	EACH	LOCATION	DAYS	EACH	DAY	EACH	DAY	EACH	DAY	EACH
PROJECT LIMITS	1	PER SDD 15C02	75	18	1,350	24	1,800	12	900	1
		UNDISTRIBUTED			270		360		180	
TOTAL 0010	1					_		_		
		TOTAL 0010			1,620	_	2,160		1,080	1

CONSTRUCTION STAKING STRUCTURE LAYOUT **CONSTRUCTION STAKING**

				650.4500 CONSTRUCTION STAKING	650.5000 CONSTRUCTION	650.9920 CONSTRUCTION STAKING SLOPE				650.6501.01 CONSTRUCTION STAKING STRUCTURE LAYOUT		
STATION	TO	STATION	LOCATION	SUBGRADE LF	STAKING BASE LF	STAKES LF	CATEGORY	STATION	LOCATION	(STRUCTURE) (01. B-10-0263) EACH	_	PROJECT
9+27	-	10+75	MAINLINE	148	148	148	0020	10+00	MAINLINE	1		8884-00-72
			TOTAL 0010	148	148	148			TOTAL 0020	1		TOTAL 0010

MAINTAINING BIRD DETERRENT SYSTEM

999.2005.S.01 MAINTAINING BIRD DETERRENT SYSTEM (STATION) (01. STA 10+00)

STATION	LOCATION	EACH
10+00	MAINLINE	1
10100	IVI/AIIVEIIVE	1
	TOTAL 0010	1

UNLESS OTHERWISE NOTED

PROJECT NO: 8884-00-72 HWY: PINE ROAD COUNTY: CLARK MISCELLANEOUS QUANTITIES SHEET

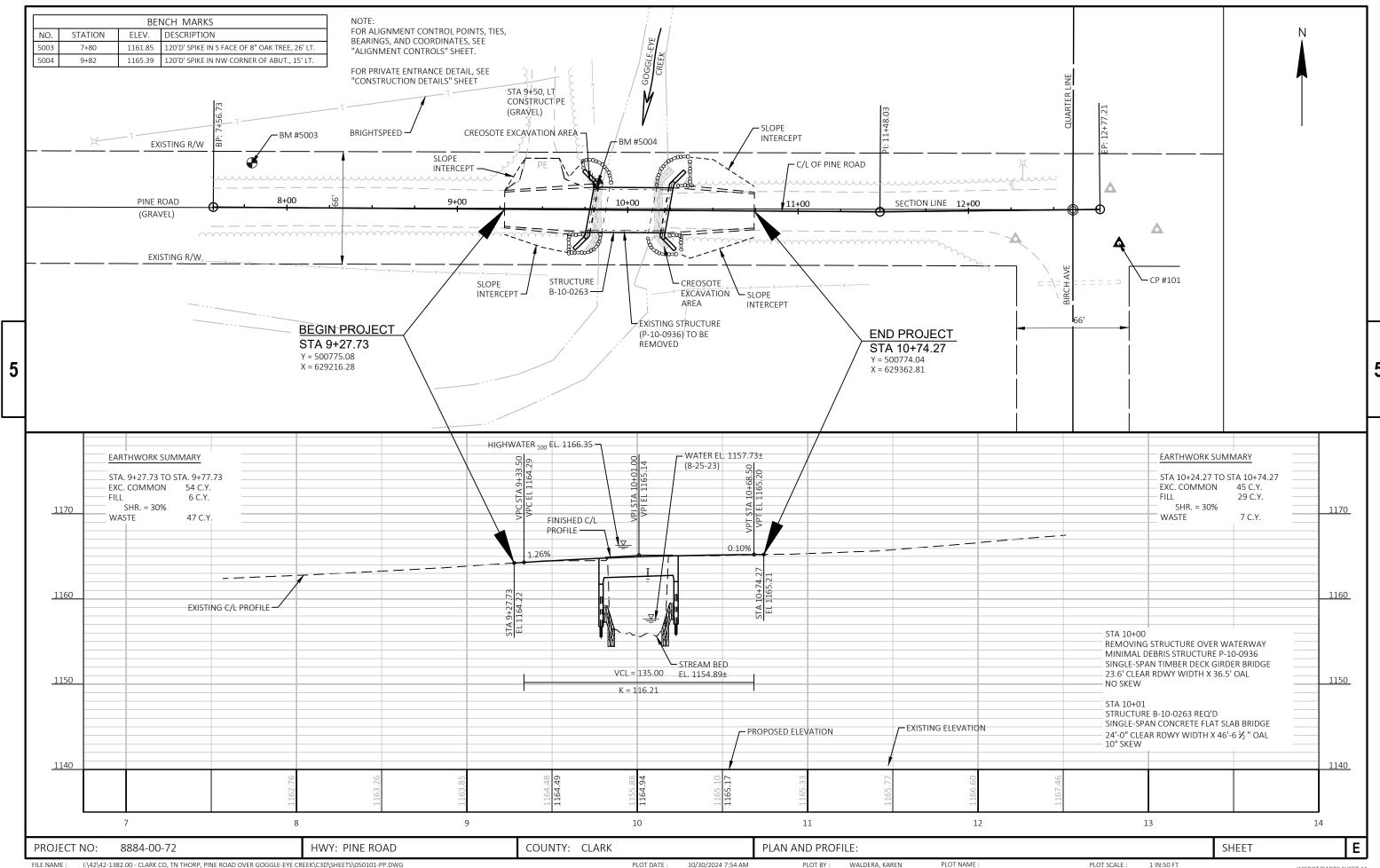
ALL ITEMS ON THIS SHEET ARE CATEGORY 0010

CONSTRUCTION STAKING SUPPLEMENTAL CONTROL

650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (01.8884-00-72)

1

1



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
15С02-09В	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES

6

GENERAL NOTES

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

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



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

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



TRENCH DETAIL



SILT FENCE TIE BACK

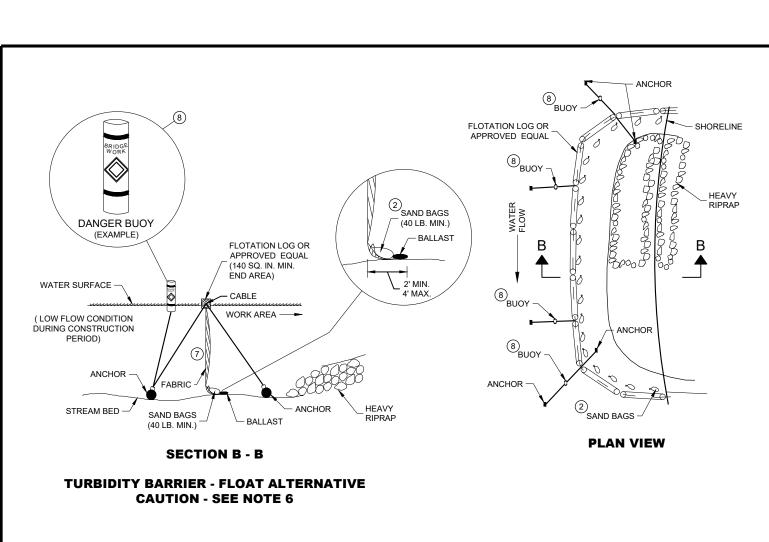
(WHEN REQUIRED BY THE ENGINEER)

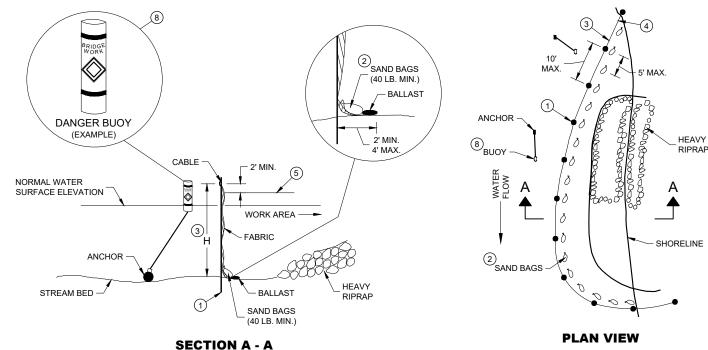


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D.D. 8 E 9-6





TURBIDITY BARRIER - STANDARD POST INSTALLATION

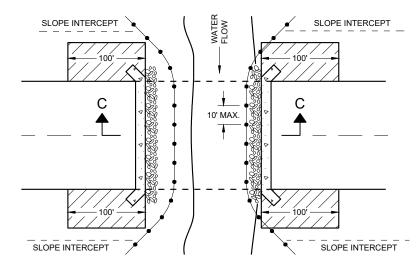
TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

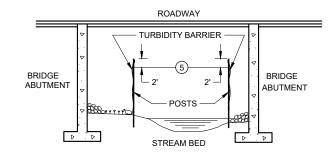
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

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



PLAN VIEW



SECTION C - C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

 ∞

6/4/02 /S/ Beth Cannestra

DATE CHIEF ROADWAY DEVELOPMENT
ENGINEER

APPROVED





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

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

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

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



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

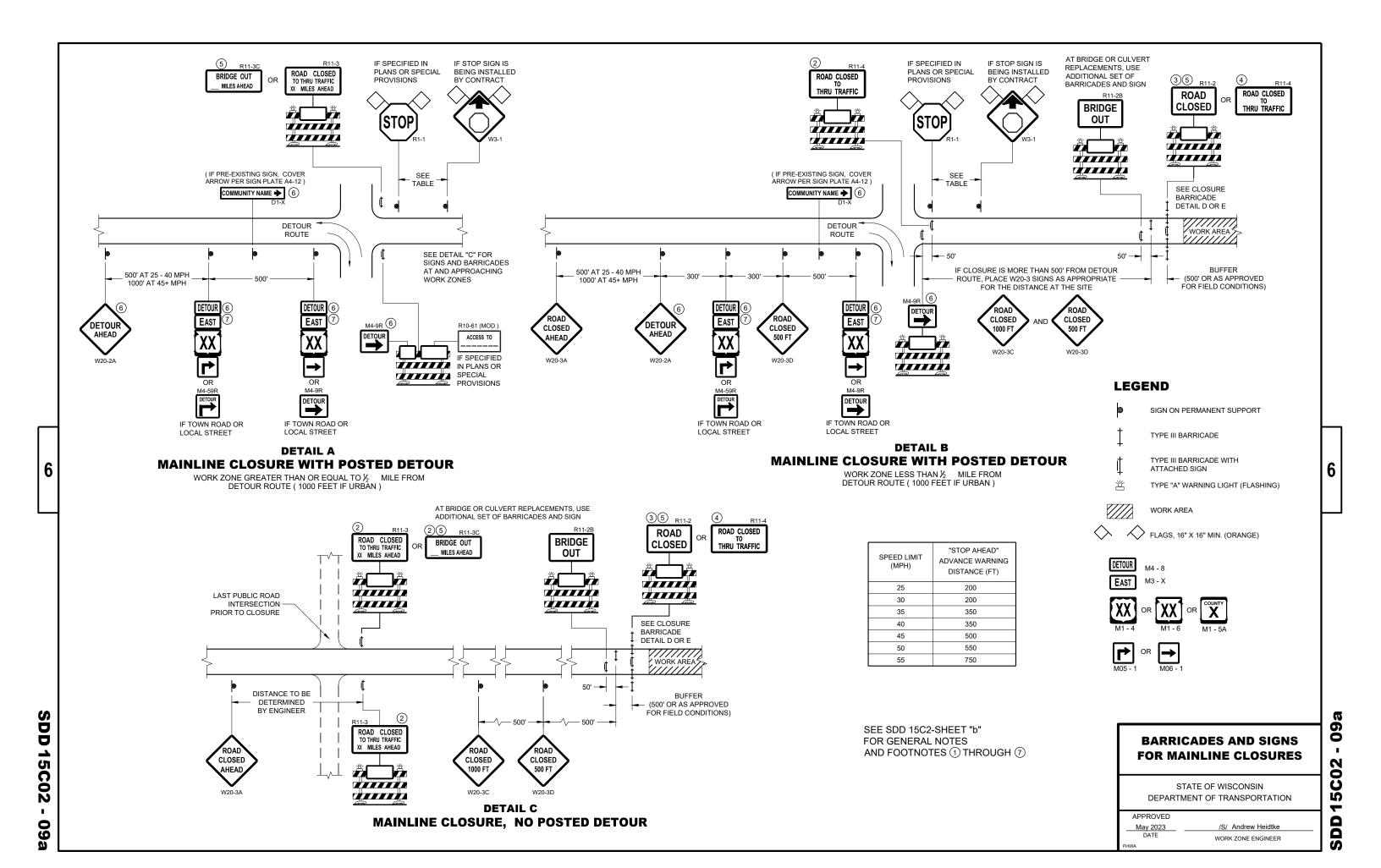
APPROVED

3/26/IO /S/ Scot Becker

DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

.D.D. 12 A

3-10



TWO- WAY

TYPE "A" WARNING

LIGHTS REQUIRED

12" MAX. →

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

BRIDGE

OUT

ROAD

CLOSED

RAMP

CLOSED

DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

R11 - 2 SHALL BE 48" X 30"

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

M4 - 9 SHALL BE 30" X 24"

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

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

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

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

R1 - 1 SHALL BE 36" X 36"

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

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED May 2023

May 2023 /S/ Andrew Heidtke

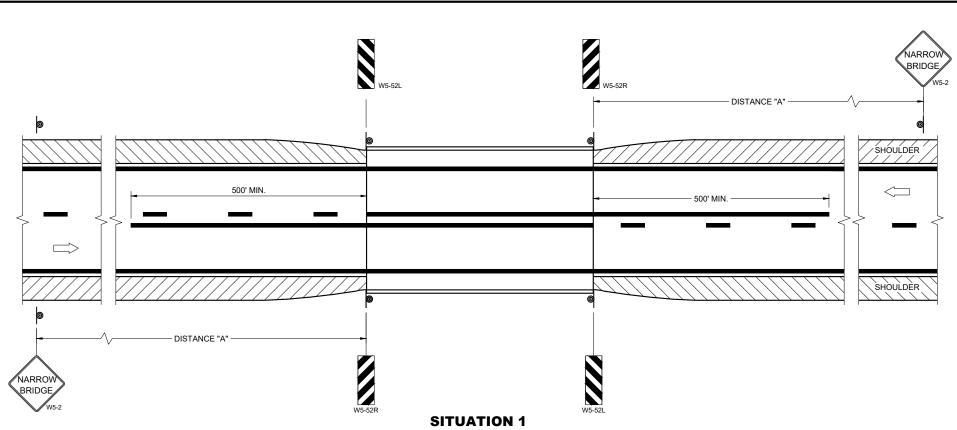
DATE WORK ZONE ENGINEER

015C02 -

Ò



SDD 15C06-12



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

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

SITUATION 2

SDD

15C06-12

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

GENERAL NOTES

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

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

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

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

1) OMIT ON ONE-WAY TRAVELED WAYS.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

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

SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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





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 $5' 3'' (\stackrel{+}{-}) 3''$.
- 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:

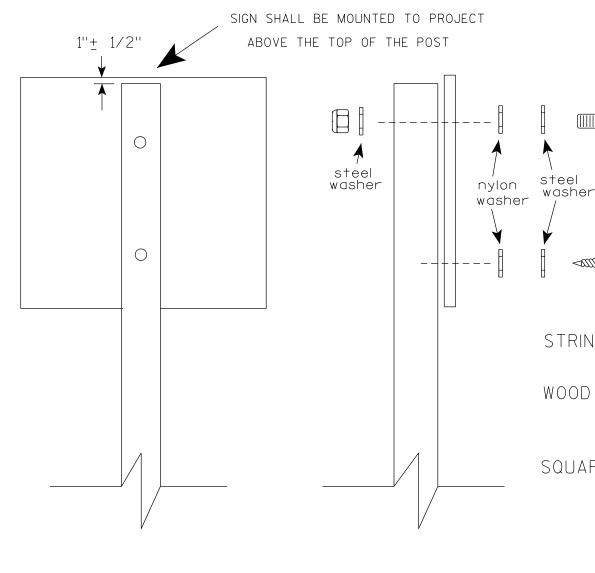
COUNTY:

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

WASHERS (ALL POSTS) -

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

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

ATTACHMENT OF SIGNS TO POSTS

APPROVED

DATE 4/1/2020

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

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

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

WISCONSIN DEPT OF TRANSPORTATION

Matther ≠or State Traffic Engineer

SHEET NO:



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

DATE 2/05/15

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

For State Traffic Engineer



BANDING



SINGLE SIGN





WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

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

CHANNEL

GENERAL NOTES

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

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

State Traffic Engineer

COUNTY:

PLOT NAME :

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

PROJECT NO:

31/2"

VIEW FROM TOP

GENERAL NOTES

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

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

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

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED //

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

ATE 4/19/2022 PLATE NO. _

SHEET NO:

SIGN

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

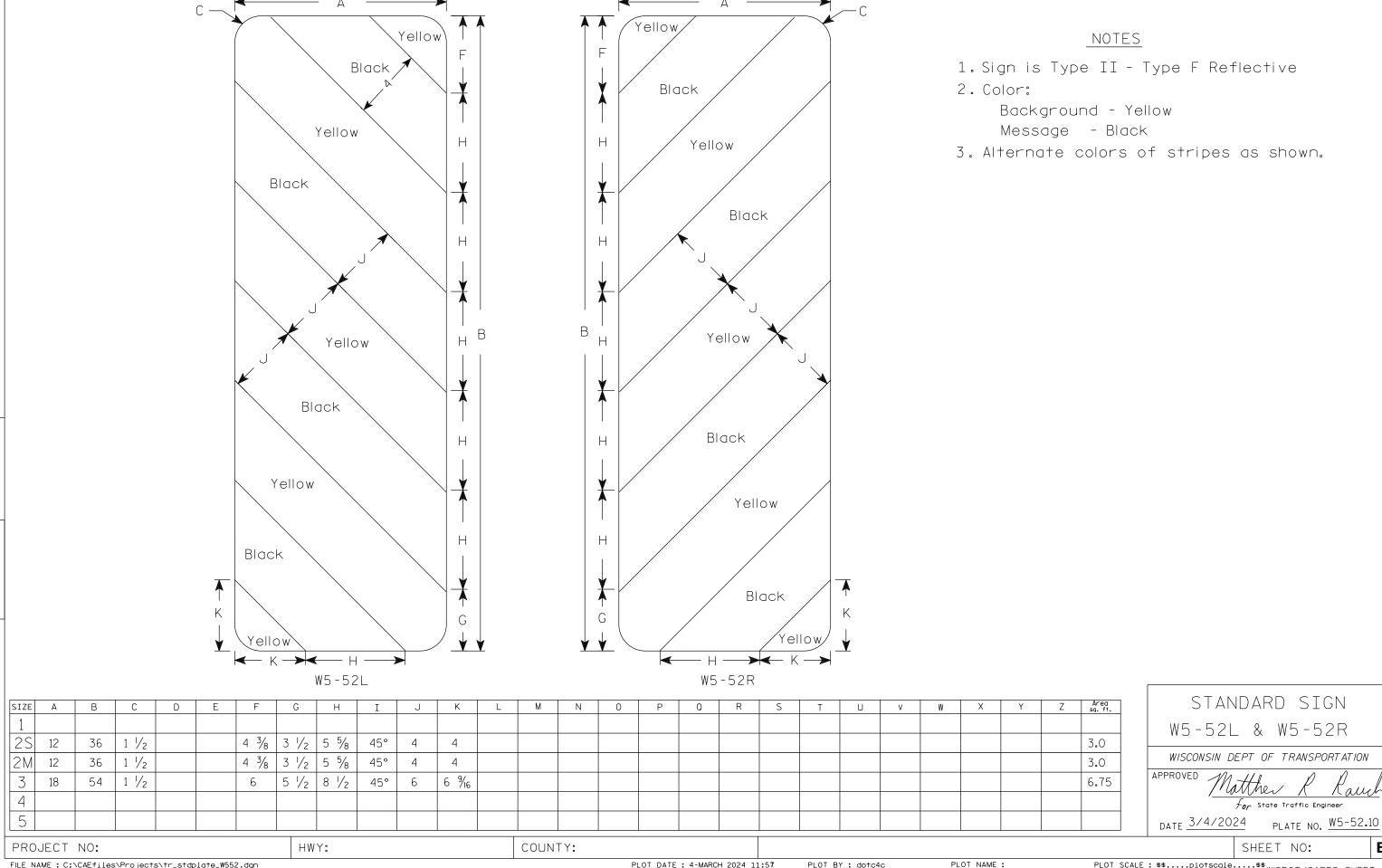
PROJECT NO:

PLOT DATE: 19-APRIL 2022 11:55

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

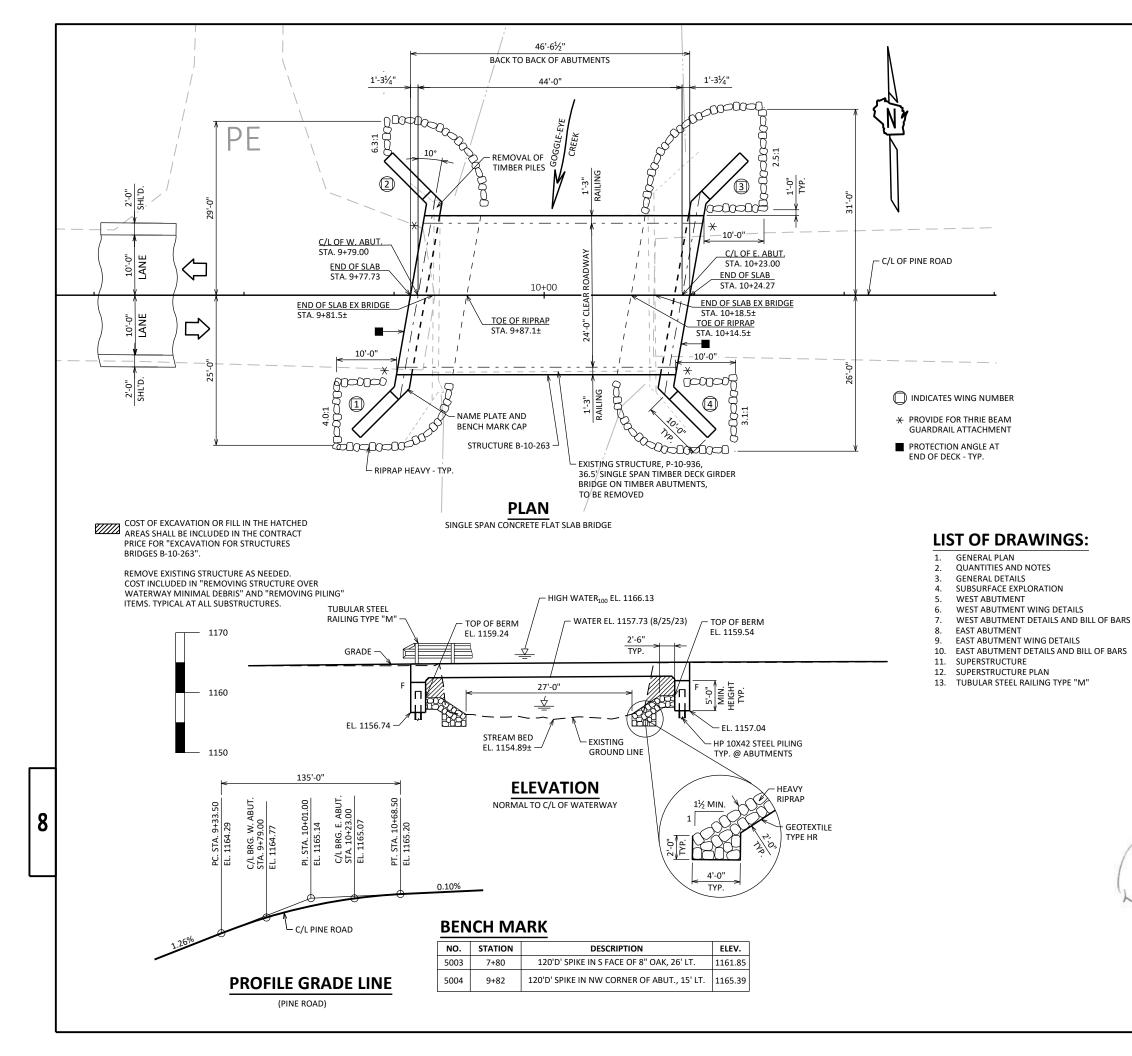


FILE NAME : C:\CAEfiles\Projects\tr_stdplate_W552.dgn

PLOT DATE: 4-MARCH 2024 11:57

PLOT BY : dotc4c

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



DESIGN DATA

LIVE LOAD:

8884-00-72

STATE PROJECT NUMBER

DESIGN LOADING: HL-93 INVENTORY RATING: 1.05 OPERATING RATING: 1.36

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

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

MATERIAL PROPERTIES:

CONCRETE MASONRY: **SUPERSTRUCTURE** $f'_c = 4.000 \text{ PSI}$ ALL OTHER $f_c = 3,500 \text{ PSI}$ BAR STEEL REINFORCEMENT GRADE 60 f_v = 60,000 PSI

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON 10x42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.

ESTIMATED 25'-0" LONG AT WEST ABUTMENT. **ESTIMATED 25'-0" LONG AT EAST ABUTMENT**

**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

HYDRAULIC DATA

100-YEAR FREQUENCY:

Q₁₀₀= 2,900 C.F.S.

Q_{BRIDGE} = 1,884 C.F.S. Q_{ROADWAY} = 1,016 C.F.S.

V₁₀₀= 9.2 F.P.S.

HW₁₀₀= EL. 1166.13 WATERWAY AREA = 205 SQ. FT.

DRAINAGE AREA = 7.15 SQ. MI. SCOUR CRITICAL CODE = 5

ROADWAY OVERTOPPING

FREQUENCY = 10 YEARS Q = 1620 C.F.S. HW. = EL. 1163.61

2-YEAR FREQUENCY: Q₂= 690 C.F.S. V₂= 4.3 F.P.S. HW₂= EL. 1162.01

TRAFFIC DATA

FEATURE ON:

ADT = <100 (2025) ADT= <100 (2045) R.D.S. = 45 MPH

> NO. DATE REVISION ORIGINAL PLANS PREPARED BY 3433 Oakwood Hills Parkway Eau Claire, WI 54701 www.AvresAssociates.com

STRUCTURE DESIGN CONTACTS: 608-261-0261 715-834-3161

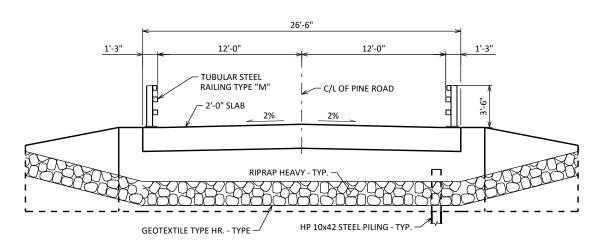
SYDOW

10/30/2024

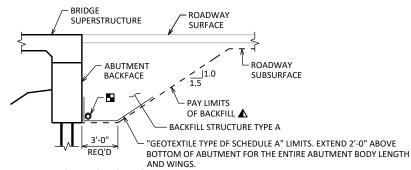
AARON BONK

DANIEL SYDOW

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER	W ABUT.	E ABUT.	TOTALS
203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS (P-10-936)	EACH				1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-10-263	EACH				1
210.1500	BACKFILL STRUCTURE TYPE A	TON		165	165	330
502.0100	CONCRETE MASONRY BRIDGES	CY	96	27	27	150
502.3200	PROTECTIVE SURFACE TREATMENT	SY	165	15	15	195
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB		2,070	2,070	4,140
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	16,970	1,530	1,530	20,030
506.0105	STRUCTURAL STEEL CARBON	LB	500			500
513.4061	RAILING TUBULAR TYPE M	LF	97.7			97.7
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		7	7	14
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF		150	150	300
606.0300	RIPRAP HEAVY	CY		55	60	115
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF		80	80	160
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY		50	50	100
645.0120	GEOTEXTILE TYPE HR	SY		100	110	210
SPV.0090.01	REMOVE EXISTING TIMBER PILES	LF		50	25	75
	NON-BID ITEMS					
	FILLER	SIZE				1/2", 3/4"

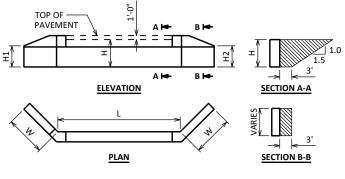


TYPICAL SECTION THRU BRIDGE



TYPICAL SECTION THRU ABUTMENT

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



ABUTMENT BACKFILL DIAGRAM

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

= WING 1 HEIGHT AT TIP (FT)

= WING 2 HEIGHT AT TIP (FT)

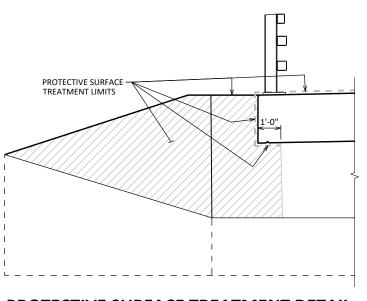
= WING LENGTH (FT)

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

= (L)(3.0')(H) + (L)(0.5)(1.5H)(H) + (3')(0.5)(H1+H2+H+H)(W)

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

 $= V_{CY}(2.0)$



PROTECTIVE SURFACE TREATMENT DETAIL

GENERAL NOTES

STATE PROJECT NUMBER

8884-00-72

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

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 HEAVY RIPRAP AND GEOTEXTILE TYPE "HR" TO THE EXTENT SHOWN ON SHEET 1 AND THE

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-10-263 SHALL BE THE

PROTECTIVE SURFACE TREATMENT TO BE APPLIED AS SHOWN IN DETAIL ON THIS SHEET 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 ABUTMENT.

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

EXISTING SUBSTRUCTURE LOCATIONS ARE BASED ON SURVEY. EXTENT OF BELOW GRADE SUBSTRUCTURE ARE NOT KNOWN. REMOVE EXISTING SUBSTRUCTURE AS NEEDED TO BUILD NEW SUBSTRUCTURE. COST OF SUBSTRUCTURE REMOVAL IS CONSIDERED INCIDENTAL TO "REMOVING STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS" AND "REMOVING

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

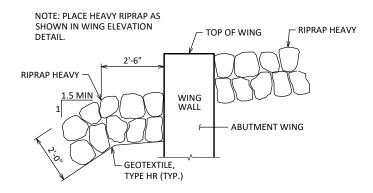
THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLAN AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO **EXCAVATION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

NO. DATE STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-10-263 JMC CK'D SHEET 2 OF 13 **QUANTITIES AND NOTES**

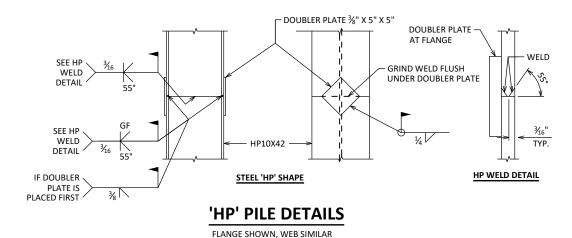
- ABUTMENT

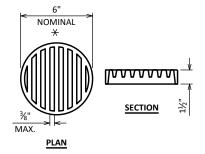
GEOTEXTILE TYPE DF OF SCHEDULE A" LIMITS. (HATCHED AREA)

BACKFILL STRUCTURE LIMITS ABUTMENT PLAN WITH WING



TYPICAL FILL SECTION AT WING



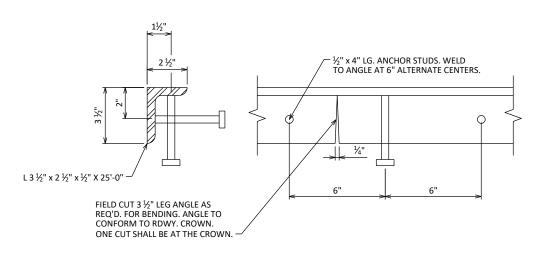


RODENT SHIELD DETAIL

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

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

THE RODENT 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.

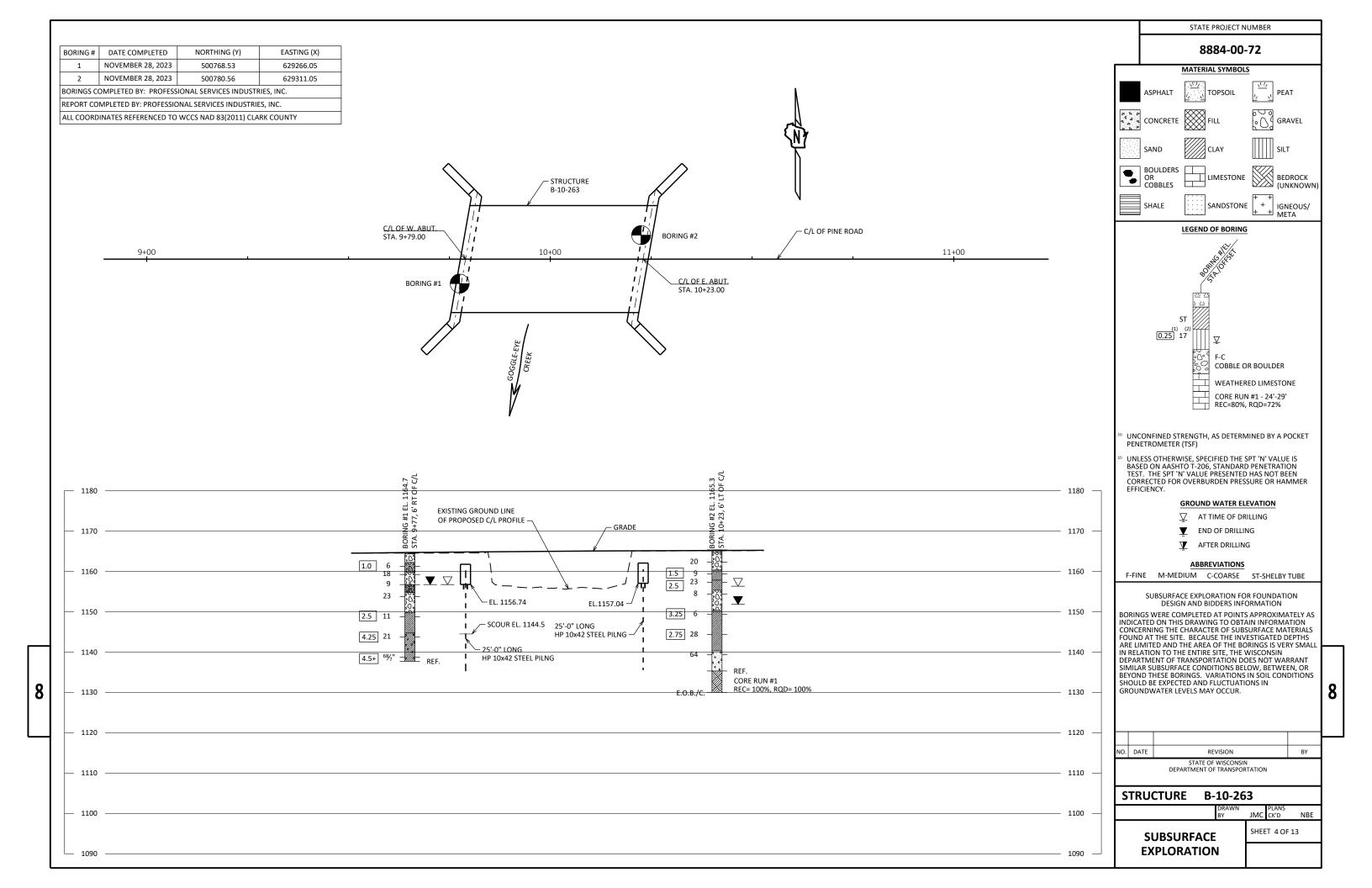


PROTECTION ANGLE DETAIL

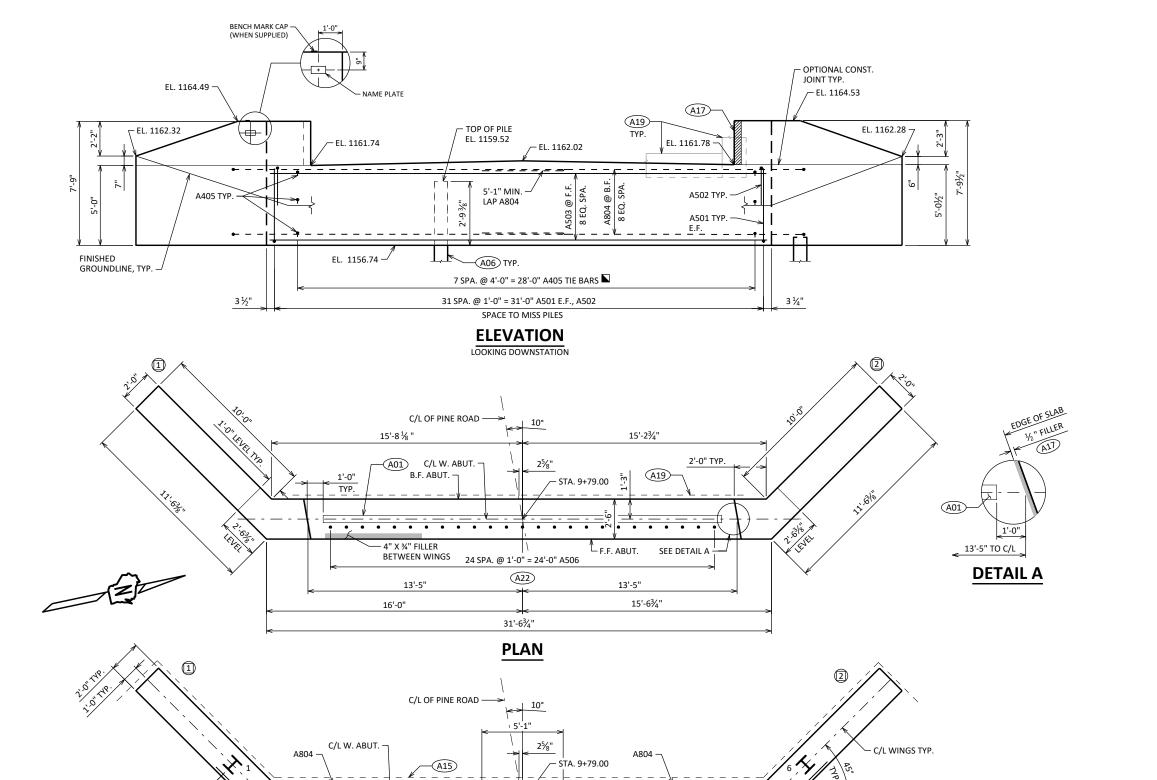
(ANGLE AND STUDS TO BE PAID FOR AT THE UNIT PRICE BID FOR "STRUCTURAL STEEL CARBON". (NO PAINT REQ'D.)

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.

NO.	DATE	REVISION BY							
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION								
S	STRUCTURE B-10-263								
			DRAWN BY	JMC CK'D	NBE				
	CEN	IEDAL DETA	SHEET 3 O	F 13					
	GEN	ERAL DETA	ILS						







A503 —

7'-10"

15'-10¹/₈"

4'-1%"

31'-27/8"

PILE PLAN

3'-8¾"

7'-10"

15'-43/4"

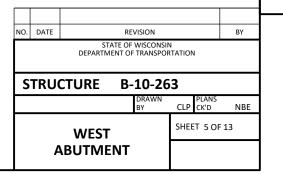
3'-10¾"

3'-10¾"

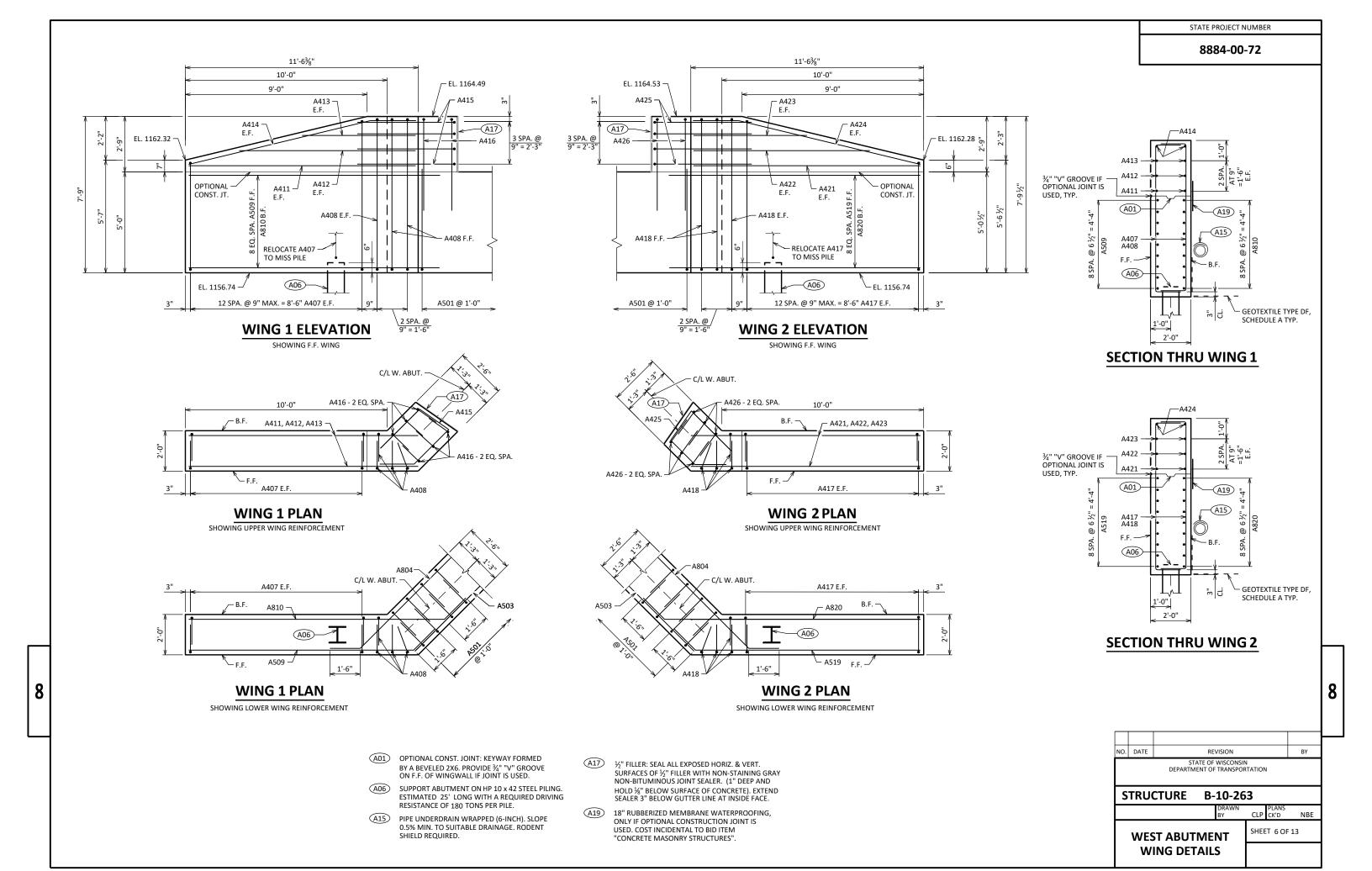
C/L PILES &

– PILE SPACING

- (A01) CONST. JOINT: KEYWAY FORMED BY A BEVELED 2X6.
- SUPPORT ABUTMENT ON HP 10 x 42 STEEL PILING. ESTIMATED 25' LONG WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE.
- A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.
- (A17) ½" FILLER: 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" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.
- A506 BARS SPACED @ 1'-0" CNTRS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)
- ALTERNATE THE POSITION OF THE 90° AND 180° HOOKS AT EACH VERTICAL LAYER OF TIES.



8

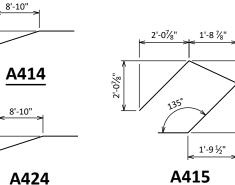


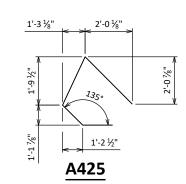
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A501		64	5'-11"	Х		ABUT BODY STIRRUPS
A502		32	8'-5"	Х		ABUT BODY STIRRUPS - TOP U-BAR
A503		9	31'-3"			ABUT BODY HORIZ F.F.
A804		18	21'-11"	Х		ABUT BODY HORIZ B.F.
A405		24	2'-11"	Х		ABUT BODY TIE BARS
A506	Х	25	2'-0"			ABUT BODY DOWEL BARS
A407	Х	26	8'-10"	Х	lack	WING 1 STIRRUPS
A408	Х	4	9'-11"	Х		WING 1 STIRRUPS
A509	Х	9	12'-9"	Х		WING 1 LOWER HORIZ - F.F.
A810	Х	9	14'-7"	Х		WING 1 LOWER HORIZ B.F.
A411	Х	2	11'-2"			WING 1 UPPER HORIZ.
A412	Х	2	8'-9"			WING 1 UPPER HORIZ.
A413	Х	2	5'-7"			WING 1 UPPER HORIZ.
A414	Х	2	10'-6"	Х		WING 1 UPPER DIAG.
A415	Χ	4	8'-8"	Х		WING 1 TOP HORIZ. CORNER
A416	Χ	6	5'-1"	Х		WING 1 TOP VERT. CORNER
A417	Χ	26	8'-10"	Х	lack	WING 2 STIRRUPS
A418	Х	4	9'-11"	Х		WING 2 STIRRUPS
A519	Χ	9	12'-9"	Х		WING 2 LOWER HORIZ - F.F.
A820	Χ	9	14'-7"	Х		WING 2 LOWER HORIZ B.F.
A421	Х	2	11'-2"			WING 2 UPPER HORIZ.
A422	Х	2	8'-9"			WING 2 UPPER HORIZ.
A423	Χ	2	5'-7"			WING 2 UPPER HORIZ.
A424	Х	2	10'-6"	Х		WING 2 UPPER DIAG.
A425	Х	4	7'-10"	Х		WING 2 TOP HORIZ. CORNER
A426	Х	6	5'-1"	Х		WING 2 TOP VERT. CORNER

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

▲ LENGTH SHOWN FOR BAR IS AN AVERAGE AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

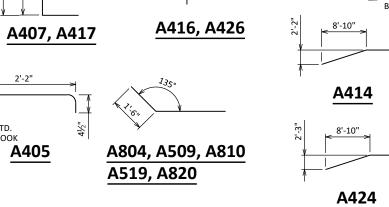




BILL OF BARS

4" X ¾" FILLER ¾" BEVEL A502 F.F. ABUT A405 @ 4'-0" HORIZ. SPA. 2'-6" BERM LEVEL TOP OF BERM EL. 1159.24 RIPRAP 1.5:1 MAX. SLOPE GEOTEXTILE, TYPE HR	A222 A506 A19 A501 A501 A504 B.F. ABUT. 1-0, 1-0, 1-0, 1-0, 1-0, 1-0, 1-0, 1-0,
SEC	GEOTEVILE

- A01 CONST. JOINT: KEYWAY FORMED BY A BEVELED 2X6.
- SUPPORT ABUTMENT ON HP 10 x 42 STEEL PILING. ESTIMATED 25' LONG WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE.
- PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD
- A19 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.
- A506 BARS SPACED @ 1'-0" CNTRS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)
- ALTERNATE THE POSITION OF THE 90° AND 180° HOOKS AT EACH VERTICAL LAYER OF TIES.



BAR SERIES TABLE

A502

A408

A418

7'-5"

7'-5"

A502, A408, A418

1'-7"

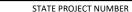
A501

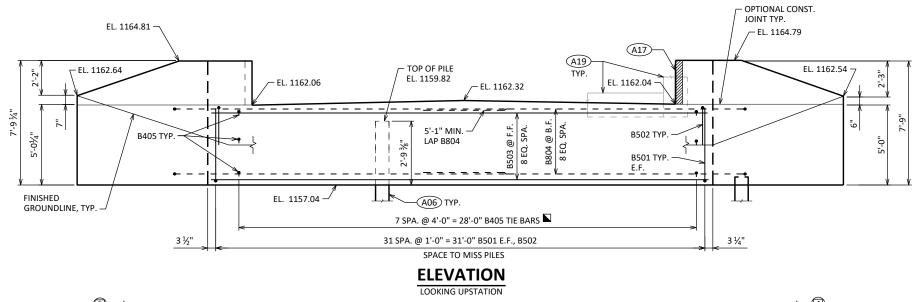
1'-4" A407 1'-4"

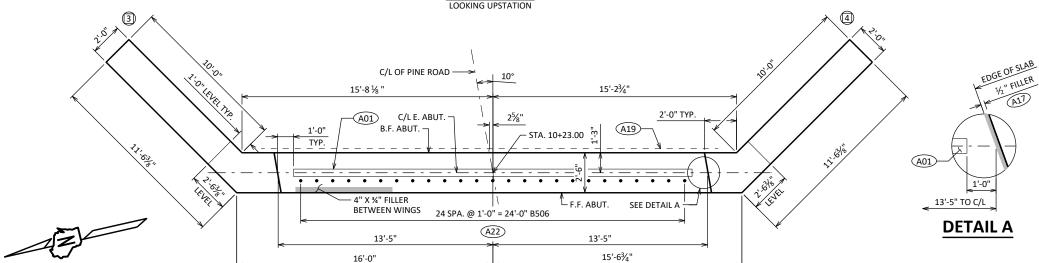
BUNDLE AND TAG EACH SERIES SEPARATELY.

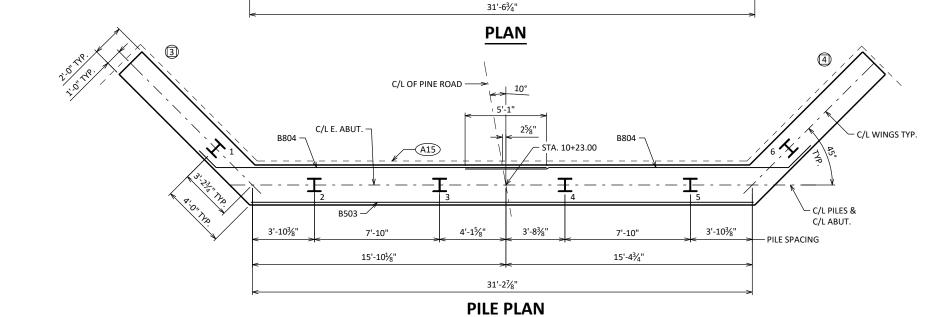
BAR MARK	NO. REQ'D.			L	ENGT	н
A407	2	SERIES OF	13	7'-10"	то	9'-10"
A417	2	SERIES OF	13	7'-10"	TO	9'-10"

o.	DATE		BY					
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION							
S	TRU	CTURE B-	10-26	3				
			DRAWN BY	CLP	PLANS CK'D	NBE		
		T ABUTME	SHEET 7 OF 13					
	_	ETAILS AND ILL OF BARS						









- CONST. JOINT: KEYWAY FORMED BY A BEVELED 2X6.
- (A06) SUPPORT ABUTMENT ON HP 10 x 42 STEEL PILING. ESTIMATED 25' LONG WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE.
- A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.
- (A17) ½" FILLER: 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" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.
- A22 B506 BARS SPACED @ 1'-0" CNTRS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)
- ALTERNATE THE POSITION OF THE 90° AND 180° HOOKS AT EACH VERTICAL LAYER OF TIES.

STRUCTURE B-10-263

BY

BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

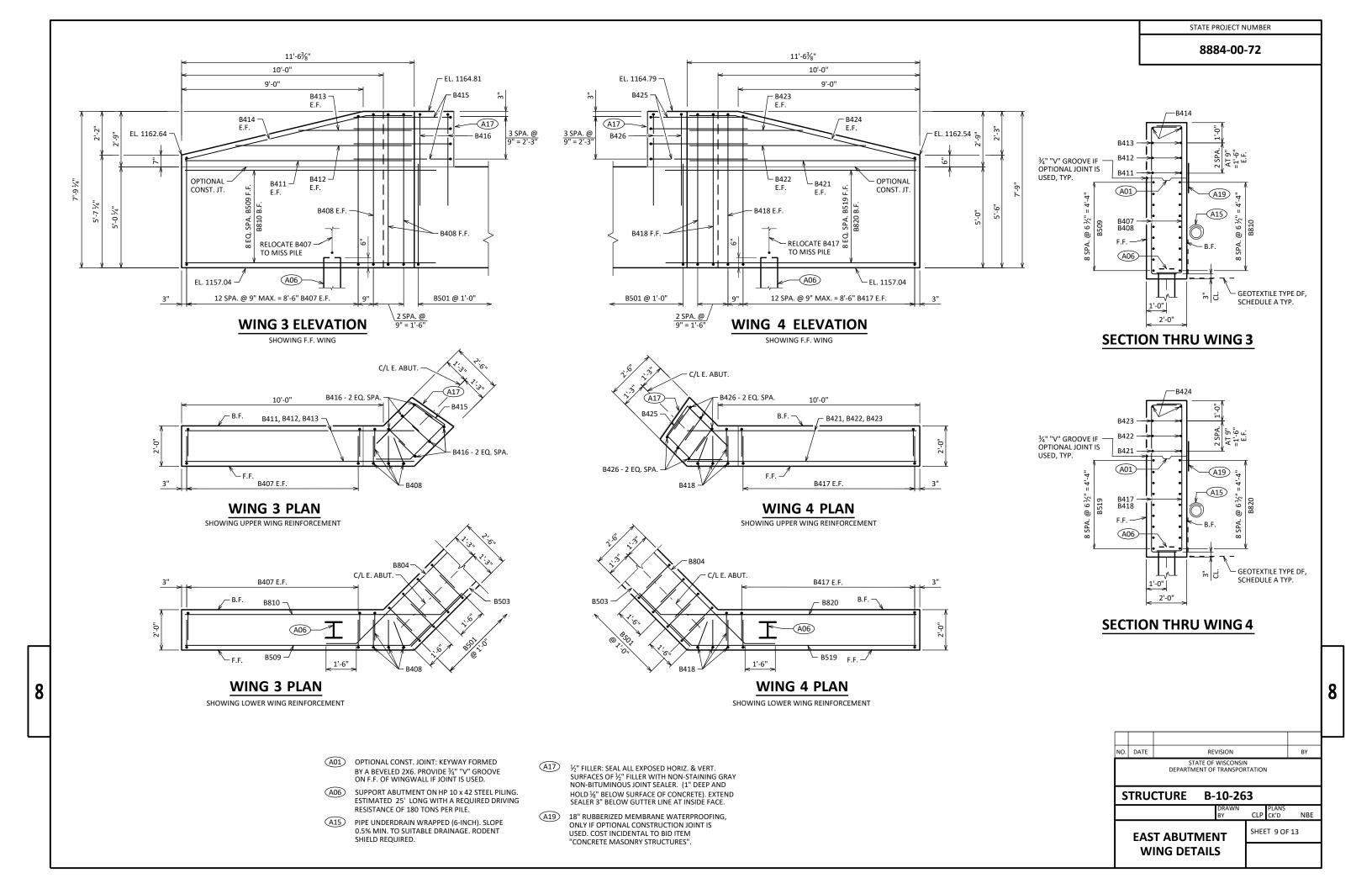
STRUCTURE B-10-263

BY

CLP CK'D NBE

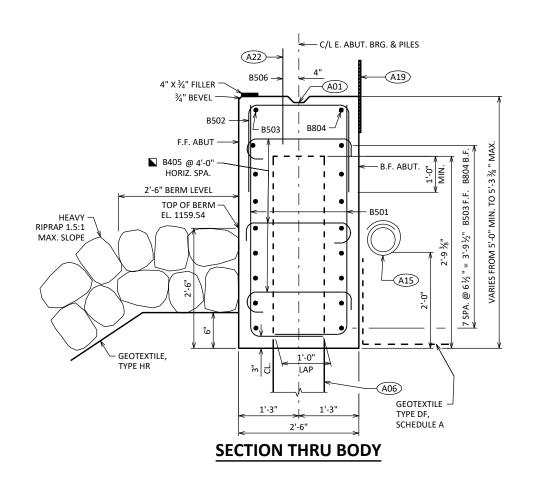
EAST
ABUTMENT

8

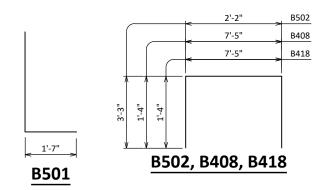


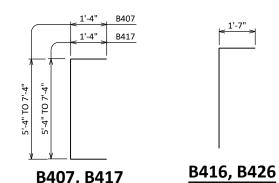
LOCATION

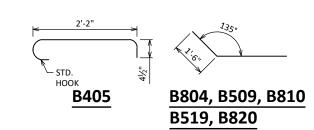
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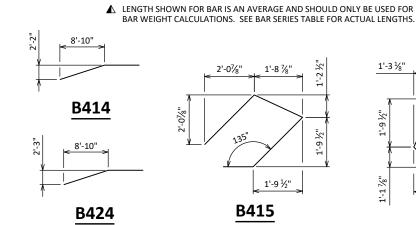


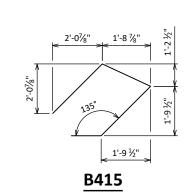
- CONST. JOINT: KEYWAY FORMED BY A BEVELED 2X6.
- SUPPORT ABUTMENT ON HP 10 x 42 STEEL PILING. ESTIMATED 25' LONG WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE.
- PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD
- 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.
- B506 BARS SPACED @ 1'-0" CNTRS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)
 - ALTERNATE THE POSITION OF THE 90° AND 180° HOOKS AT EACH VERTICAL LAYER OF TIES.











BILL OF BARS

BAR O NO. REQ'D.

B502

B503

B804

B405

B506 X

B407 X

B408 X

B509 X

B810 X

B413 X

B414 X

B415 X

B416 X

B417 X

B418 X

B519 X

B820 X

B421 X

B422 X

B423 X

B424 X

B425 X

B411 X 2

B412 X 2

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

ABUT BODY STIRRUPS

ABUT BODY HORIZ. - F.F.

ABUT BODY HORIZ. - B.F.

ABUT BODY DOWEL BARS

WING 3 LOWER HORIZ - F.F.

WING 3 LOWER HORIZ. - B.F.

WING 3 TOP HORIZ. CORNER

WING 3 TOP VERT. CORNER

WING 4 LOWER HORIZ - F.F.

WING 4 LOWER HORIZ. - B.F.

WING 4 TOP HORIZ. CORNER

WING 4 TOP VERT. CORNER

WING 4 UPPER HORIZ.

WING 4 UPPER HORIZ.

WING 4 UPPER HORIZ.

WING 4 UPPER DIAG.

WING 3 UPPER HORIZ.

WING 3 UPPER HORIZ.

WING 3 UPPER HORIZ.

WING 3 UPPER DIAG.

▲ WING 4 STIRRUPS

WING 4 STIRRUPS

ABUT BODY TIE BARS

WING 3 STIRRUPS

▲ WING 3 STIRRUPS

ABUT BODY STIRRUPS - TOP U-BAR

LENGTH H BAR SERIES

64 5'-11"

18 21'-11"

24 2'-11"

25 2'-0"

4 9'-11"

8'-5"

31'-3"

26 8'-10" X

12'-9"

14'-7"

11'-2"

8'-9"

5'-7"

10'-6"

8'-8"

5'-1"

26 8'-10"

4 9'-11"

9 12'-9"

9 14'-7"

2 11'-2"

2 8'-9"

4 7'-10"

5'-7"

10'-6"

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

2

2

B426 X 6 5'-1" X

32

9

9

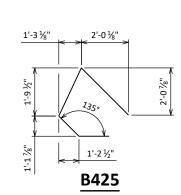
9

2

2

4

6



BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY.

BAR MARK		NO. REQ'D	•	L	ENGT	Н
B407	2	SERIES OF	13	7'-10"	ТО	9'-10"
B417	2	SERIES OF	13	7'-10"	ТО	9'-10"

0.	DATE	REVISION BY								
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION									
S	STRUCTURE B-10-263									
			DRAWN BY	CLP	PLANS CK'D	NBE				
		T ABUTMEN	SHEE	T 10 C)F 13					
	_	ETAILS AND ILL OF BARS								

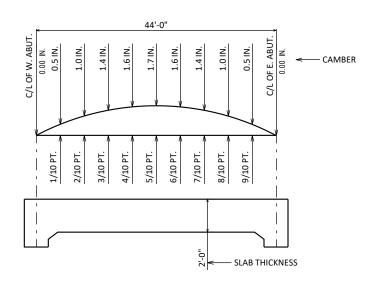
TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY

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

PLUS

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

TOP OF SLAB ELEVATIONS

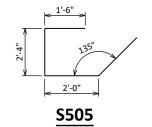
LOCATION	C/L W. ABUT.	⅓ ₀ PT.	²⁄₁₀ PT.	³⁄₁₀ PT.	⁴⁄₁₀ PT.	5∕ ₁₀ PT.	%₀ PT.	⅓ ₁₀ PT.	8∕ ₁₀ PT.	%₀ PT.	C/L E. ABUT.
N. EDGE OF SLAB	1164.53	1164.56	1164.60	1164.63	1164.66	1164.69	1164.72	1164.75	1164.77	1164.79	1164.82
C/L OF PINE ROAD	1164.77	1164.81	1164.85	1164.88	1164.91	1164.94	1164.97	1165.00	1165.02	1165.05	1165.07
S. EDGE OF SLAB	1164.49	1164.53	1164.56	1164.60	1164.63	1164.66	1164.69	1164.72	1164.75	1164.77	1164.79

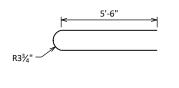
BILL OF BARS

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

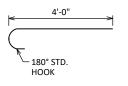
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S1001	х	58	40'-6"			SLAB LONG. BOT.
S502	х	70	26'-7"			SLAB TRANS. BOT.
S503	х	70	26'-7"			SLAB TRANS. TOP
S504	х	27	46'-2"			SLAB LONG. TOP
S505	х	54	7'-11"	Х		SLAB @ ABUT. DIAPHRAGM STIRRUPS
S506	х	4	26'-7"			SLAB @ ABUT. DIAPHRAGM TRANS.
S607	х	32	12'-0"	Х		SLAB @ RAIL POSTS
S608	х	48	6'-0"			SLAB @ INT. RAIL POSTS
S609	х	16	4'-8"	Х		SLAB @ END RAIL POSTS

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.





S607



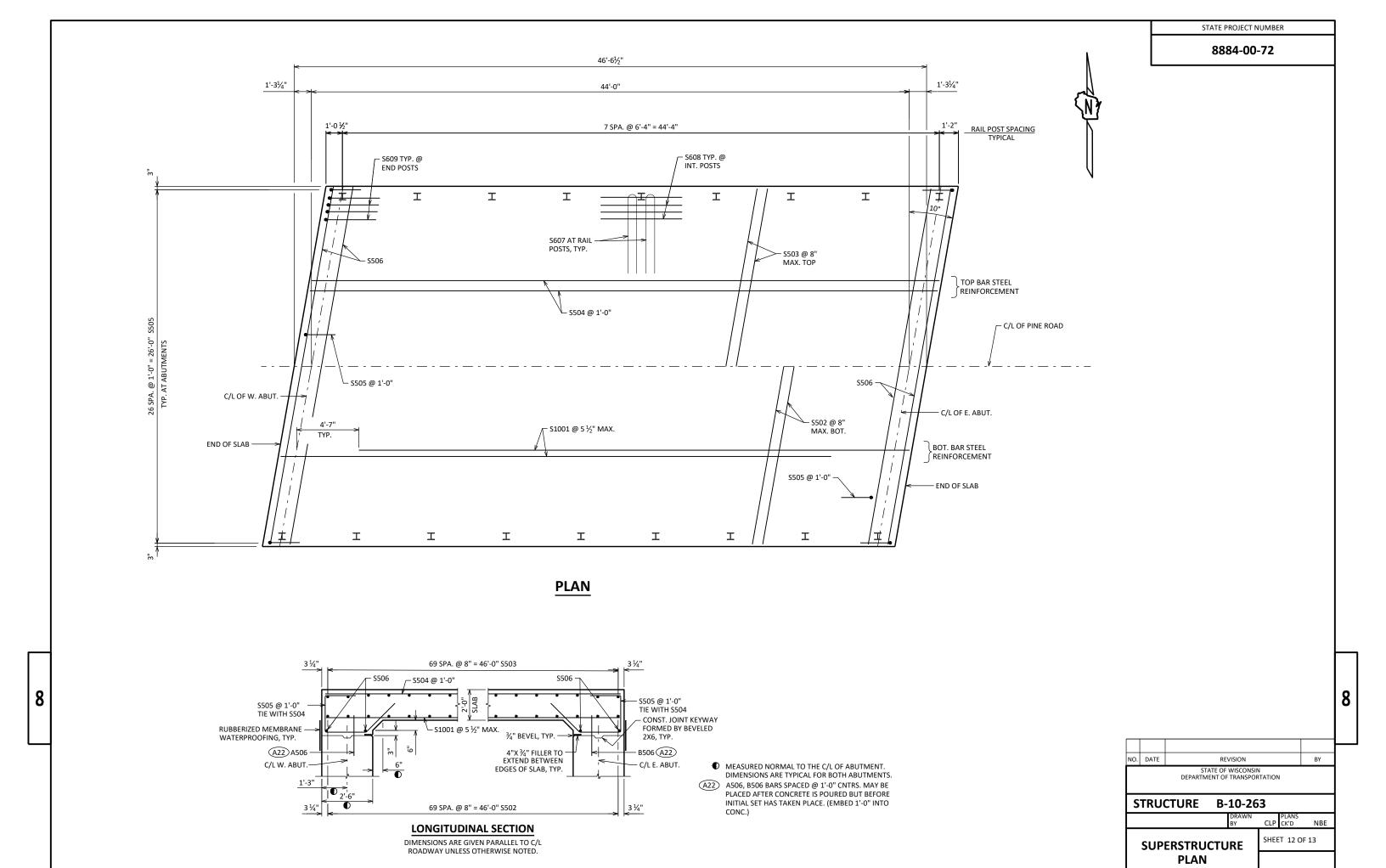
S609

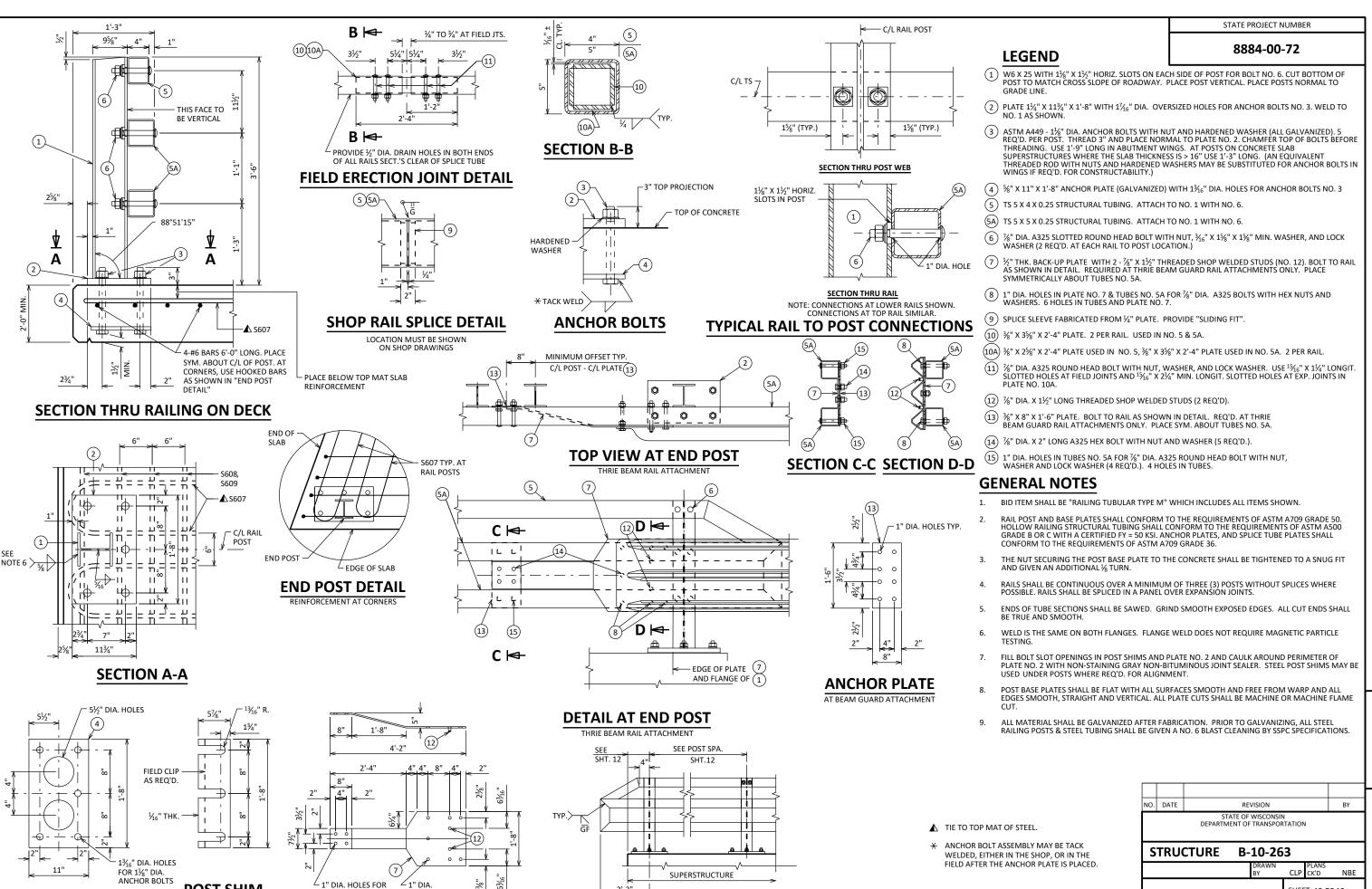
SURVEY TOP OF SLAB ELEVATIONS

	ABUTMENT	<u>5/10 PT.</u>	ABUTMENT
N. EDGE OF SLAB			
C/L OF PINE 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.

_										
NO.	DATE	RE	VISION		BY					
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION										
S	STRUCTURE B-10-263									
			DRAWN BY	PLANS CLP CK'D	NBE					
	CLID	FDCTDUCTU	SHEET 11 C	OF 13						
	SUP	ERSTRUCTU	IKE							
		•		· ·						





PART ELEVATION OF RAILING

POST SHIM

DETAIL

ANCHOR PLATE

AT RAIL TO DECK CONNECTION

¾" DIA. HEX BOLTS

HOLES TYP.

BACK-UP PLATE DETAIL

8

SHEET 13 OF 13

TUBULAR STEEL

RAILING TYPE "M"

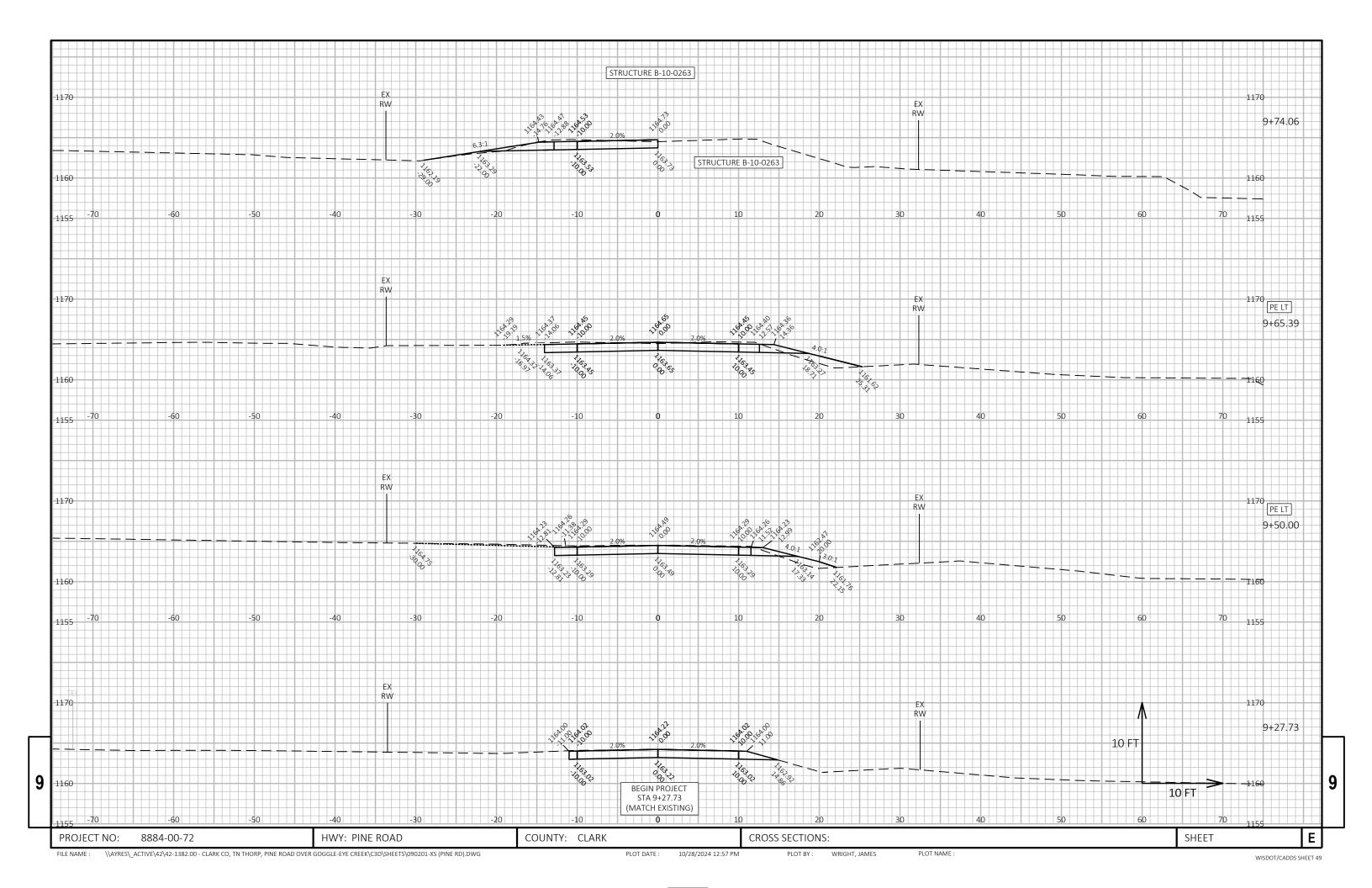
PINE ROAD COMPUTER FARTHWORK

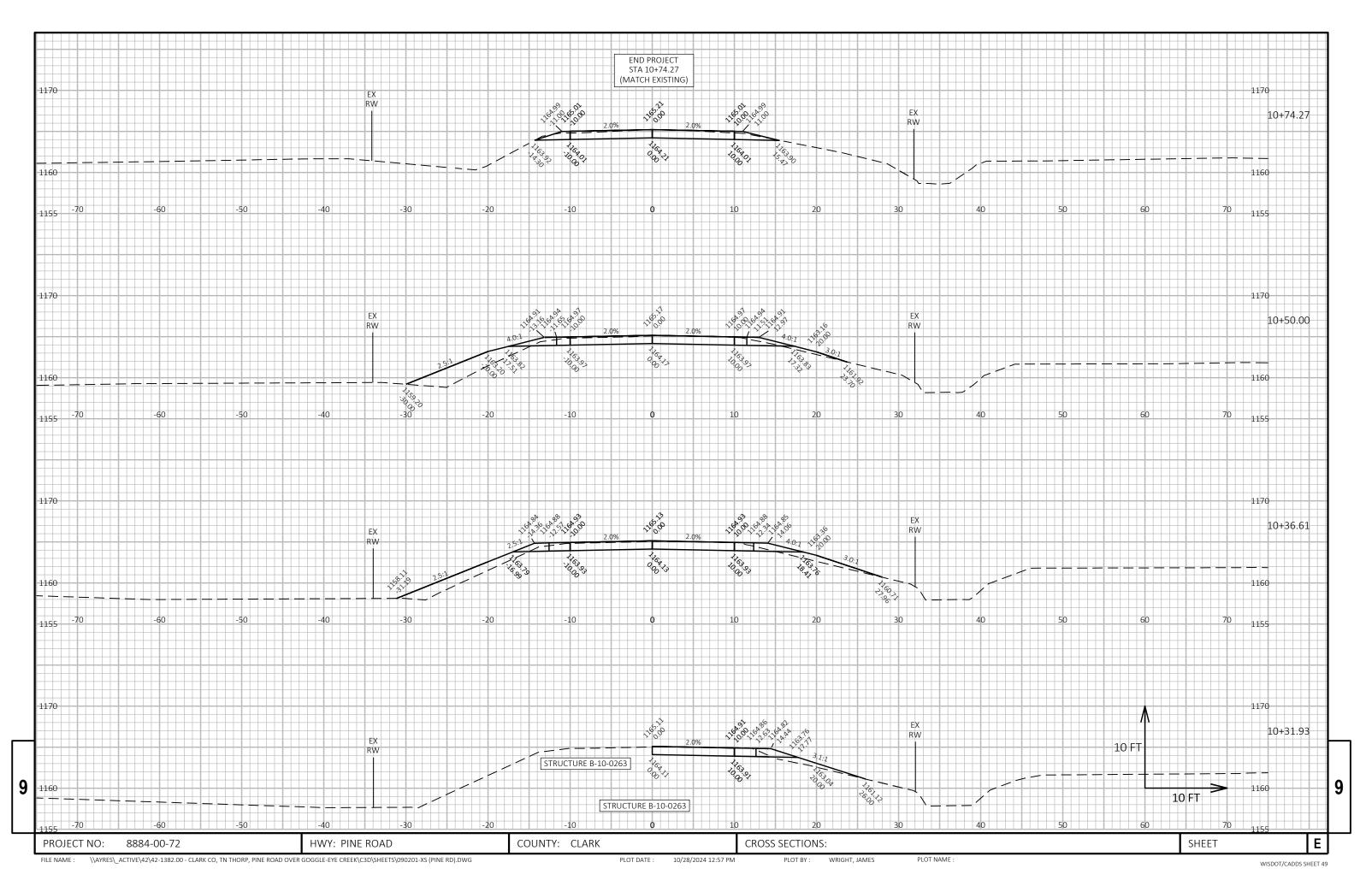
		Area	(SF)	Incremental Vol	(CY) (Unadjusted)	Cumulat	ive Vol (CY)	
	ance	Cut	Fill	Cut	Fill	Cut 1.00	Expanded Fill 1.30	Mass Ordinate
				Note 1	Note 2	Note 5		Note 3
9+27.73		23.9	0.0					
9+50	22.27	28.7	4.2	23	2	23	2	21
9+65.39	15.39	31.0	6.1	17	3	40	6	34
9+77.73	12.34	31.0	0.0	14	1	54	8	47
BRIDGE								
10+24.27		24.7	0.0					
10+36.61	12.34	24.7	21.7	11	5	66	14	51
10+50	13.39	24.2	27.3	12	12	78	30	48
10+74.27	24.27	23.4	0.0	21	12	99	46	53
				99	3.5	·		

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|9

PROJECT NUMBER: 8884-00-72 HWY: PINE ROAD COUNTY: CLARK COMPUTER EARTHWORK DATA SHEET NO: 1 **E**





Notes



Wisconsin Department of Transportation

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