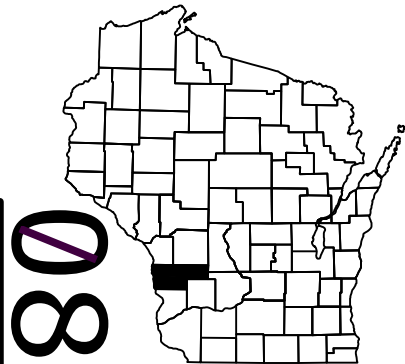


LAX  
PROJECT ID: 5405-00-70  
WITH: N/A  
COUNTY: VERNON

MARCH 2026  
ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right-of-Way-Plan
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 42



DESIGN DESIGNATION 5405-00-00

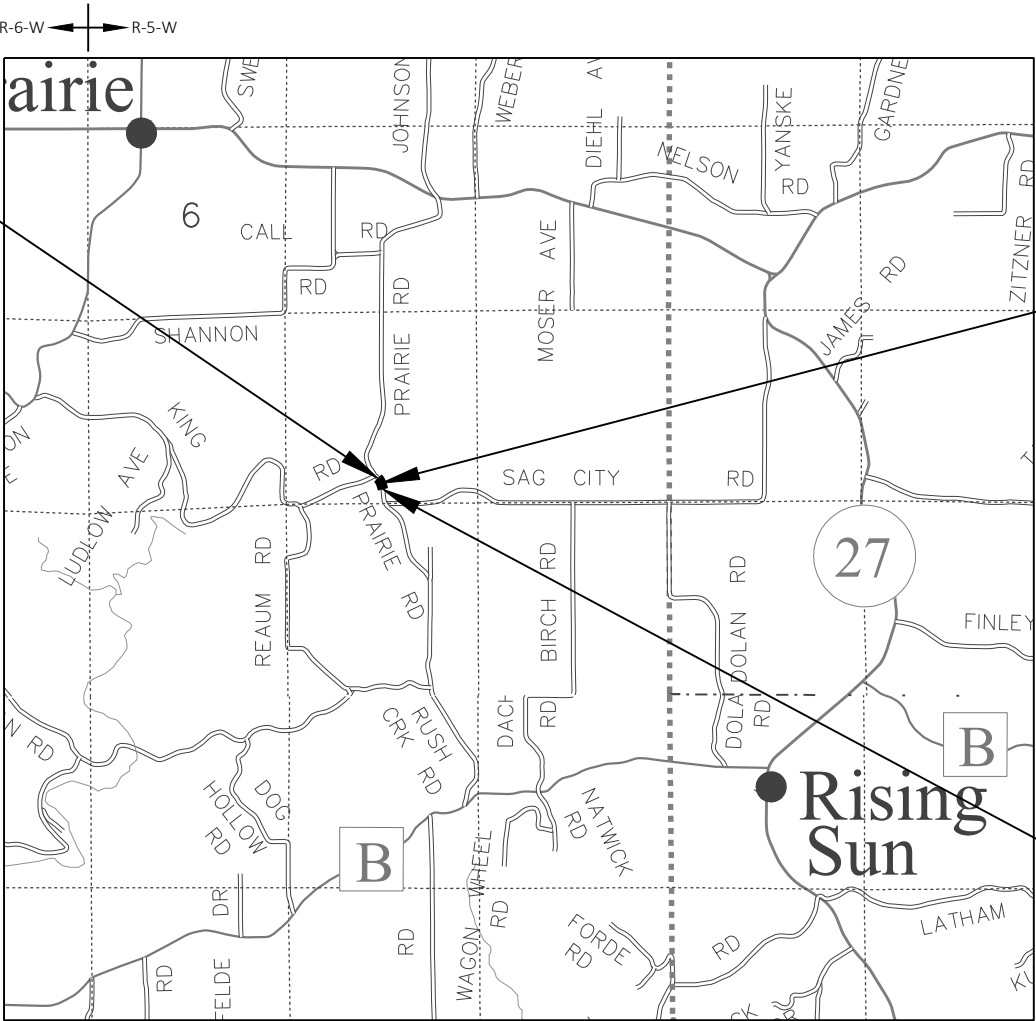
A.A.D.T.	2026	=	94
A.A.D.T.	2046	=	99
D.H.V.		=	14
D.D.		=	62/38
T.		=	7.7%
DESIGN SPEED		=	30 MPH
ESALS		=	7,300

CONVENTIONAL SYMBOLS

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

PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

BEGIN PROJECT  
STA. 11+78.86  
Y: 106 820.664  
X: 672 943.522



LAYOUT  
SCALE 0 1 MI  
TOTAL NET LENGTH OF CENTERLINE = 0.0271 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), VERNON COUNTY, NAD83 ( 2011 ), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 ( 2012 ). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 18.

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5405-00-70		

ACCEPTED FOR  
VERNON COUNTY  
10/20/20 Phil Hewitt Hwy Comm  
Date (Signature and Title of Official)

ORIGINAL PLANS PREPARED BY

WESTBROOK  
Associated Engineers, Inc.  
619 EAST HOXIE STREET  
P.O. BOX 429  
SPRING GREEN, WISCONSIN 53588  
PHONE (608) 588-7866  
FAX (608) 588-7954



DATE: 10/17/25 Aaron Palmer  
(Professional Engineer Signature)

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	WESTBROOK ASSOCIATED ENGINEERS, INC.
Designer	WESTBROOK ASSOCIATED ENGINEERS, INC.
Project Manager	LORRAINE BETZEL, P.E.
Regional Examiner	SW REGION
Regional Supervisor	KYLE HEMP, P.E.

APPROVED FOR THE DEPARTMENT  
DATE: 10/21/25 Lorraine Betzel  
(Signature)

E

STANDARD ABBREVIATIONS			
ABUT	ABUTMENT	LS	LUMP SUM
AC	ACRE	MGAL	ONE THOUSAND GALLONS
AGG	AGGREGATE	ML OR M/L	MATCH LINE
AH	AHEAD	NOM	NOMINAL
∠	ANGLE	NC	NORMAL CROWN
AADT	ANNUAL AVERAGE DAILY TRAFFIC	NB	NORTHBOUND
ASPH	ASPHALTIC	NO	NUMBER
BK	BACK	OD	OUTSIDE DIAMETER
BAD	BASE AGGREGATE DENSE	PAVT	PAVEMENT
BL OR B/L	BASE LINE	PC	POINT OF CURVATURE
BM	BENCH MARK	PI	POINT OF INTERSECTION
CL OR C/L	CENTER LINE	PT	POINT OF TANGENCY
Δ	CENTRAL ANGLE OR DELTA	PCC	PORTLAND CEMENT CONCRETE
CONC	CONCRETE	LB	POUND
CONST	CONSTRUCTION	PSI	POUNDS PER SQUARE INCH
CP	CONTROL POINT	PE	PRIVATE ENTRANCE
CO	COUNTY	PROJ	PROJECT
CTH	COUNTY TRUCK HIGHWAY	PL	PROPERTY LINE
CY	CUBIC YARD	R	RADIUS
D	DEGREE OF CURVE	RL OR R/L	REFERENCE LINE
DHV	DESIGN HOUR VOLUME	REQD	REQUIRED
DIA	DIAMETER	RT	RIGHT
DD	DIRECTIONAL DISTRIBUTION	RHF	RIGHT HAND FORWARD
DWY	DRIVEWAY	R/W	RIGHT OF WAY
EA	EACH	RD	ROAD
EB	EASTBOUND	RDWY	ROADWAY
EL OR ELEV	ELEVATION	SHLDR	SHOULDER
EMB	EMBANKMENT	SB	SOUTHBOUND
ESALS	EQUIVALENT SINGLE AXLE LOADS	SPECS	SPECIFICATIONS
EXC	EXCAVATION	SF	SQUARE FEET
EXIST	EXISTING	SY	SQUARE YARD
FERT	FERTILIZER	SDD	STANDARD DETAIL DRAWINGS
FE	FIELD ENTRANCE	STH	STATE TRUNK HIGHWAY
FL OR F/L	FLOW LINE	STA	STATION
FT	FOOT	SE	SUPERELEVATION
HES	HIGH EARLY STRENGTH	SL OR S/L	SURVEY LINE
CWT	HUNDRED WEIGHT	TEMP	TEMPORARY
IN DIA	INCH DIAMETER	T	TRUCKS (PERCENT OF)
ID	INSIDE DIAMETER	TYP	TYPICAL
INTERS	INTERSECTION	USH	UNITED STATES HIGHWAY
IH	INTERSTATE HIGHWAY	VAR	VARIABLE
INV	INVERT	VC	VERTICAL CURVE
JT	JOINT	VPC	VERTICAL POINT OF CURVATURE
LT	LEFT	VPI	VERTICAL POINT OF INTERSECTION
LHF	LEFT HAND FORWARD	VPT	VERTICAL POINT OF TANGENCY
L	LENGTH OF CURVE	W	WEST
LF	LINEAR FOOT	WB	WESTBOUND
LC	LONG CHORD OF CURVE		

WISCONSIN DNR LIAISON

KAREN KALVELAGE  
DNR SERVICE CENTER  
3550 MORMON COULEE RD  
LA CROSSE, WI 54601  
PHONE: (608) 406-7880  
EMAIL: KAREN.KALVELAGE@WISCONSIN.GOV

DESIGN CONSULTANT

AARON PALMER, P.E.  
WESTBROOK ASSOCIATED ENGINEERS, INC.  
619 E HOXIE ST  
SPRING GREEN, WI 53588  
PHONE: (608) 588-7866  
EMAIL: APALMER@WESTBROOKENG.COM

DESIGN PROJECT MANAGER

LORRAINE BETZEL, P.E.  
SW REGION  
2101 WRIGHT ST  
MADISON, WI 53704  
PHONE: (608) 246-3279  
EMAIL: LORRAINE.BETZEL@DOT.WI.GOV

COUNTY HIGHWAY COMMISSIONER

PHIL HEWITT  
VERNON COUNTY  
1335 RAILROAD AVE  
VIROQUA, WI 54665  
PHONE: (608) 637-5452  
EMAIL: PHIL.HEWITT@VERNONCOUNTYWI.GOV

UTILITIES CONTACTS

VERNON COMMUNICATIONS COOPERATIVE  
COMMUNICATIONS  
SCOTT FREDERICK  
103 N MAIN ST  
WESTBY, WI 54667  
PHONE: (608) 632-0607  
EMAIL: SFREDERICK@VERNONCOM.COOP

VERNON ELECTRIC COOPERATIVE  
ELECTRIC  
COLE CARY  
110 SAUGSTAD RD  
WESTBY, WI 54667  
PHONE: (608) 634-7472  
EMAIL: CCARY@VERNONELECTRIC.ORG

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.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS, OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

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

APPLY TACK COAT BETWEEN LAYERS OF HMA PAVEMENT AT A RATE OF 0.05 GAL/SY.

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

RIGHT OF WAY INFORMATION SHOWN ON THE PLANS IS APPROXIMATE.

THE CONTRACTOR IS TO WORK WITH UTMOST CARE AND PROTECT ALL SURVEY MARKERS. REMOVAL OF ANY SURVEY MARKER IS TO BE WITH THE APPROVAL OF THE ENGINEER.

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

THE CONTRACTOR SHALL PREPARE AN EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND SUBMIT THE PLAN TO WISDOT AND WDNR FOR REVIEW AT LEAST 14 DAYS PRIOR TO THE PRECONSTRUCTION CONFERENCE.

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

BIODEGRADABLE NON-NETTED MATTING SHALL BE USED ALONG STREAM CORRIDORS.

SLOPES 2.5:1 OR STEEPER REQUIRE EROSION MAT.

CURVE DATA IS BASED ON THE ARC DEFINITION.

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.

THE CONTRACTOR'S PAVING OPERATION SHALL BE CONSISTENT WITH THE TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING LANE.

THE 4-INCH ASPHALTIC SURFACE SHALL BE CONSTRUCTED USING ONE (1) 2.25-INCH LOWER LAYER AND ONE (1) 1.75-INCH UPPER LAYER. THE PREFERRED LOWER LAYER IS 2.25-INCHES OF 3 LT 58-28 S. THE PREFERRED UPPER LAYER IS 1.75-INCHES OF 4 LT 58-28 S.

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

THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES EXCEPT WHEN PAVING OPERATIONS REQUIRE THE DRIVEWAY TO BE CLOSED. ACCESS TO DRIVEWAYS SHALL BE RE-ESTABLISHED IMMEDIATELY AFTER OPERATIONS ARE COMPLETED. ACCESS SHALL BE PROVIDED DURING ALL NON-WORKING HOURS.

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

BEARINGS SHOWN ON THE PLAN ARE TRUE BEARINGS.

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

RUNOFF COEFFICIENT TABLE

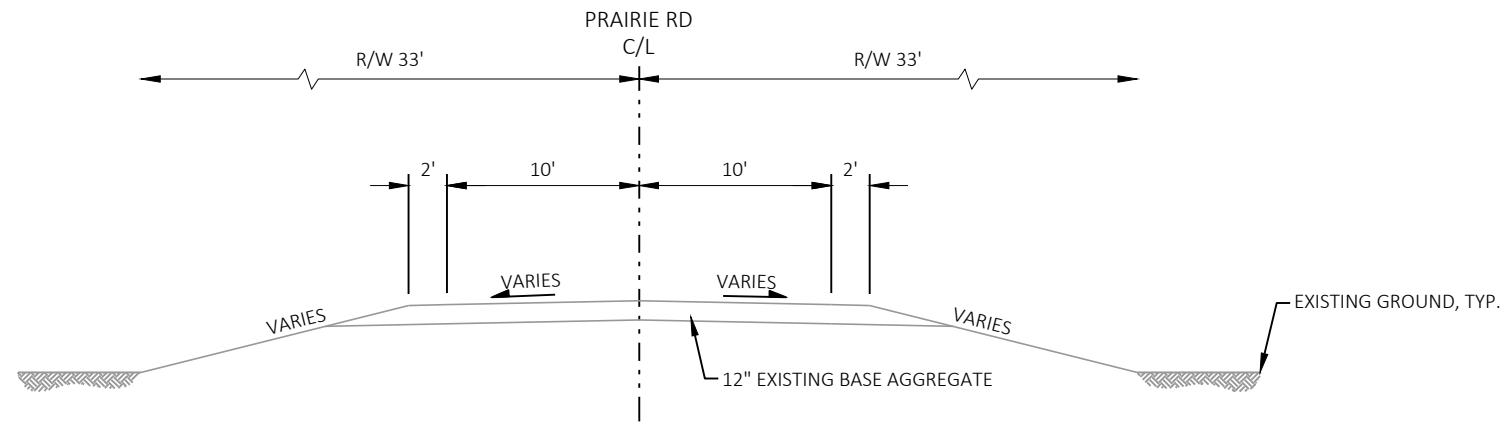
LAND USE:	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS:	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIPTURF:	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPETURF:			.25			.27			.28			.30
			.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 = 0.217 ACRES  
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.124 ACRES

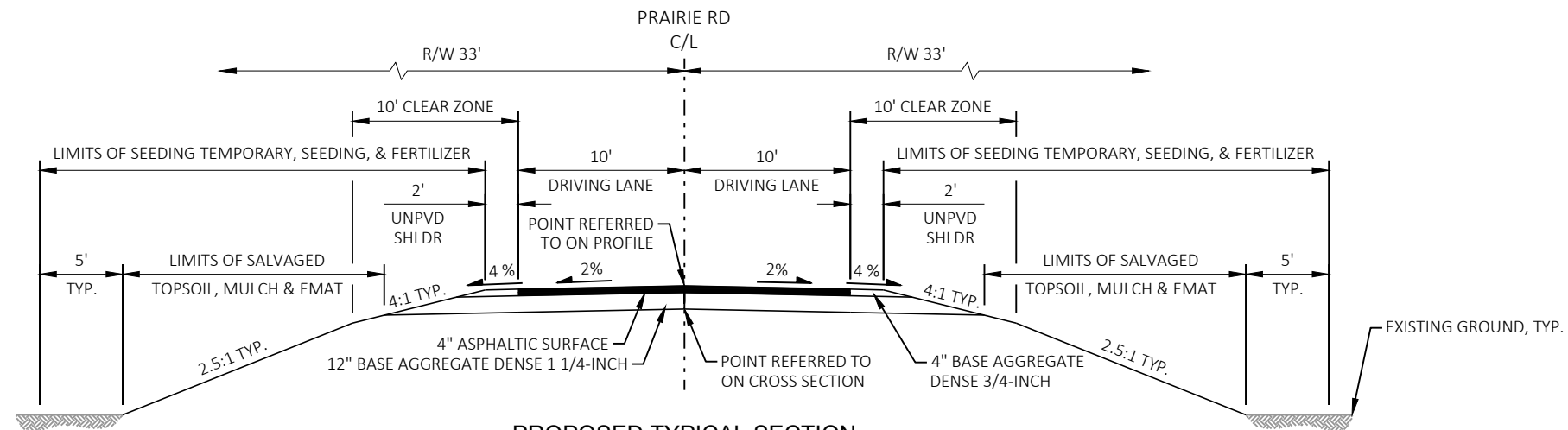
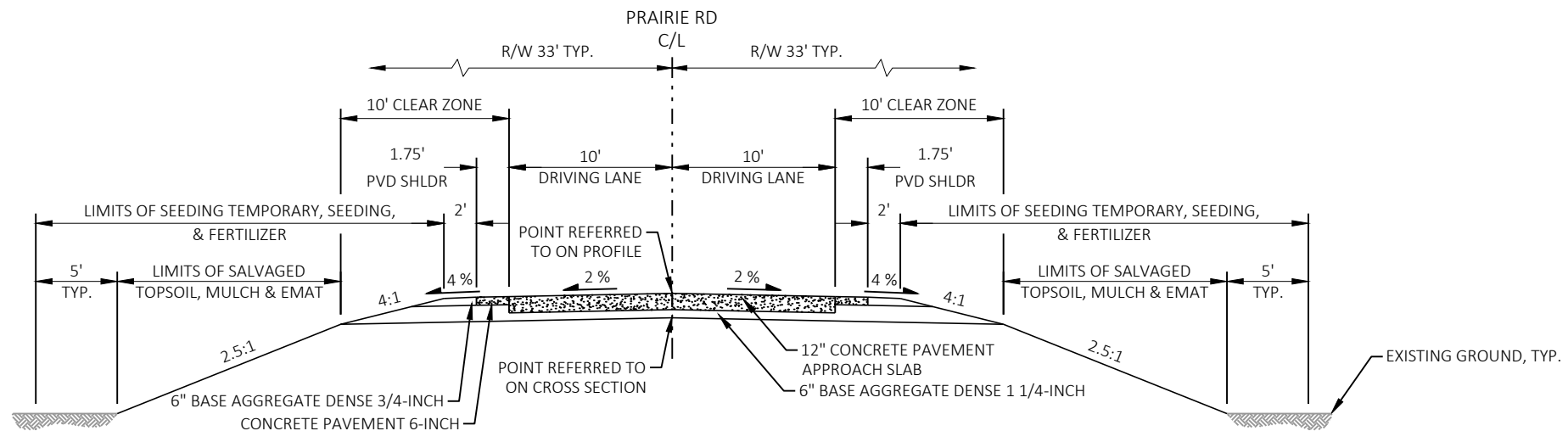


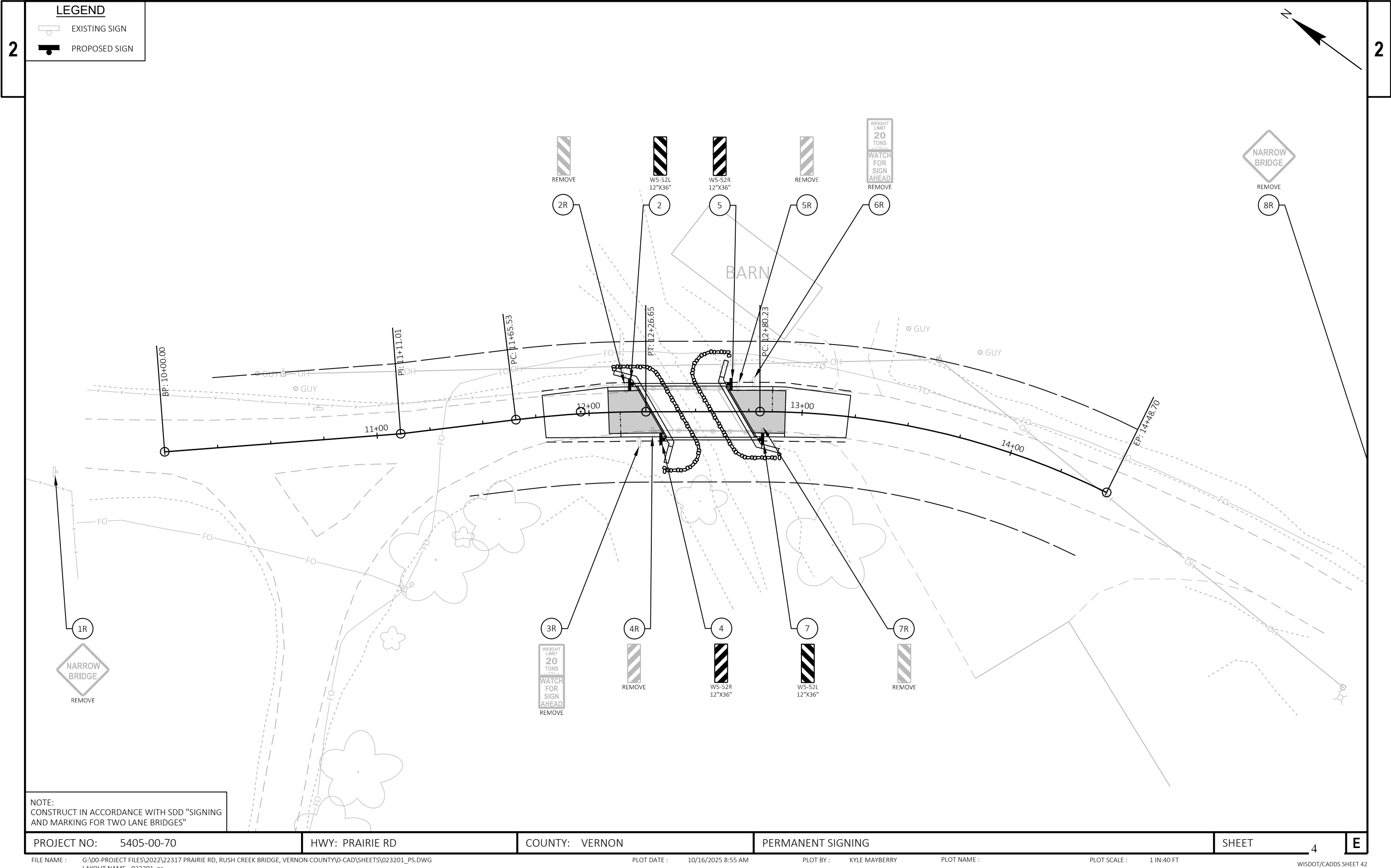
ORDER OF SECTION 2 DETAIL SHEETS

- GENERAL NOTES
- TYPICAL SECTIONS
- PERMANENT SIGNING
- ALIGNMENT DETAILS AND CONTROL POINTS

**EXISTING TYPICAL SECTION**

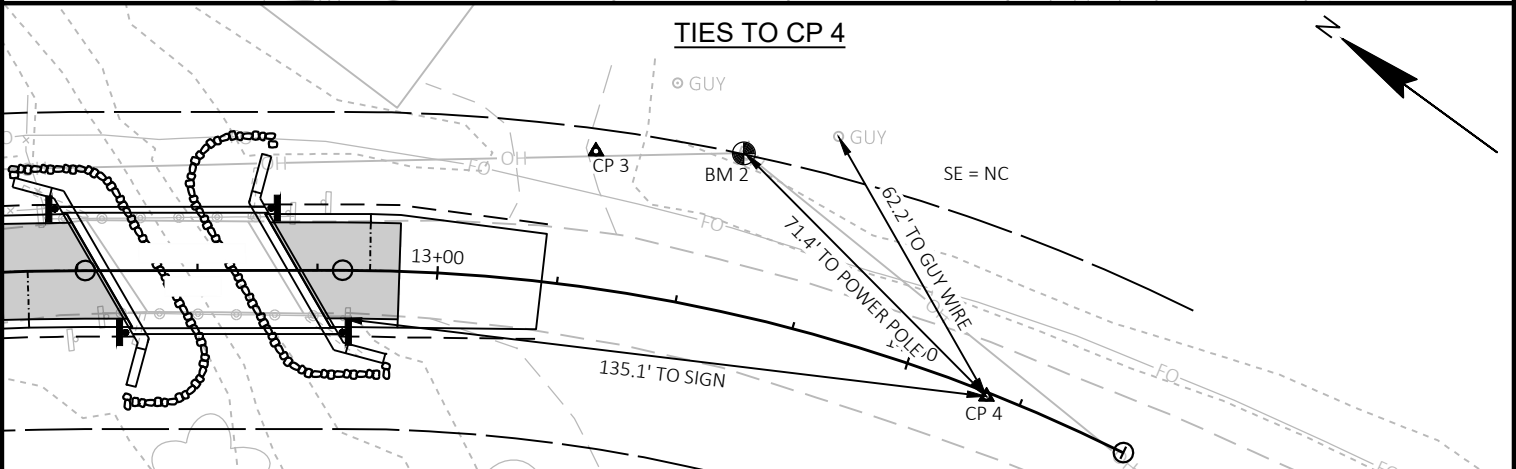
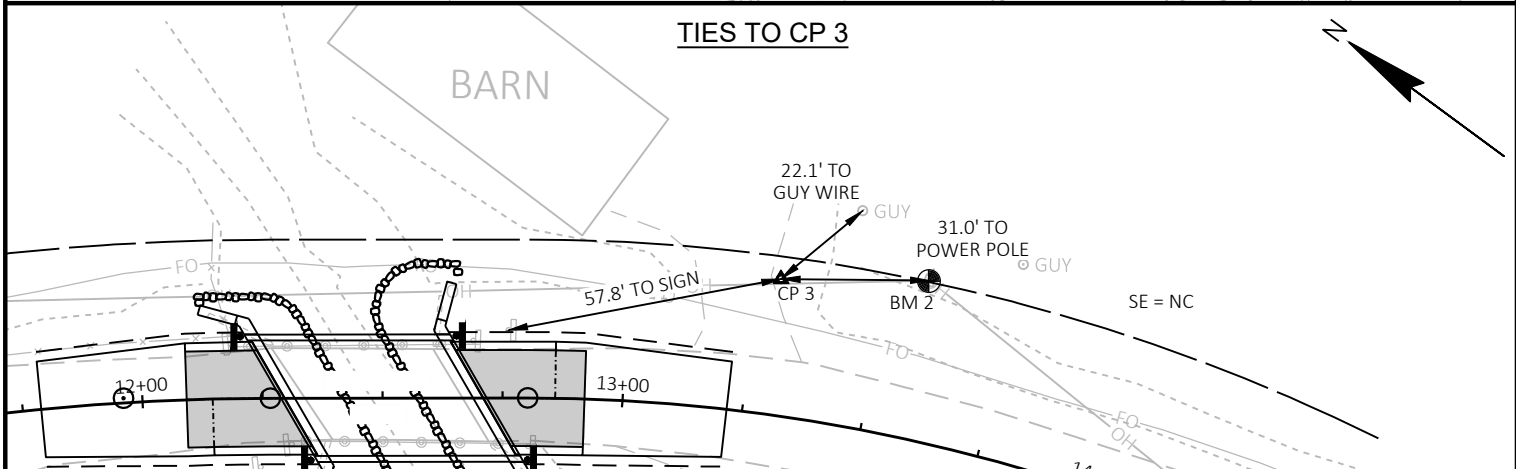
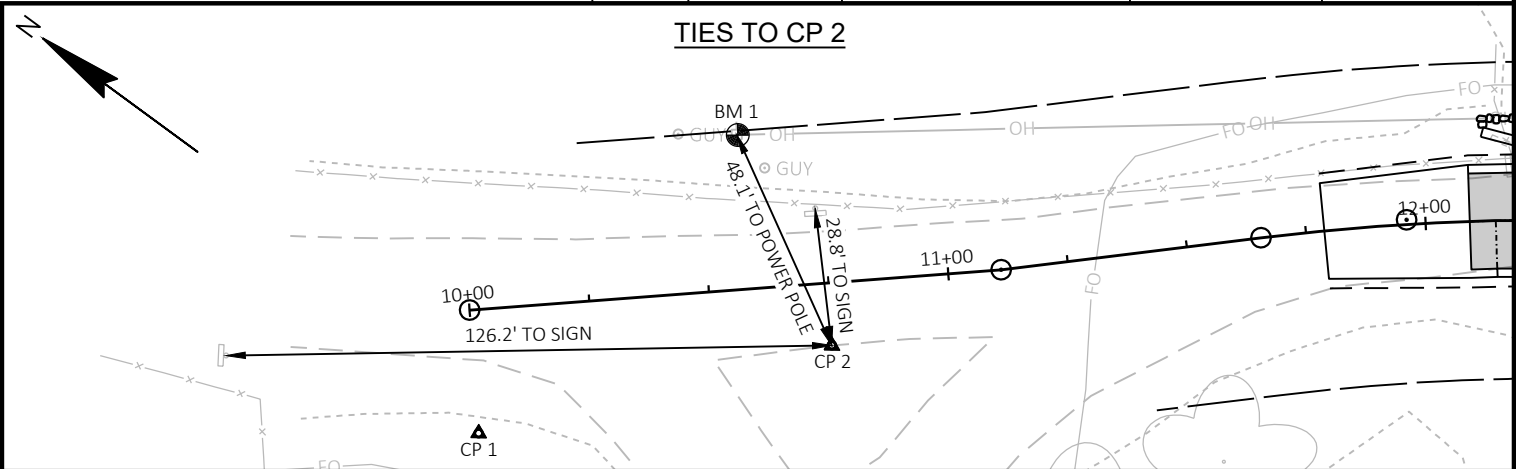
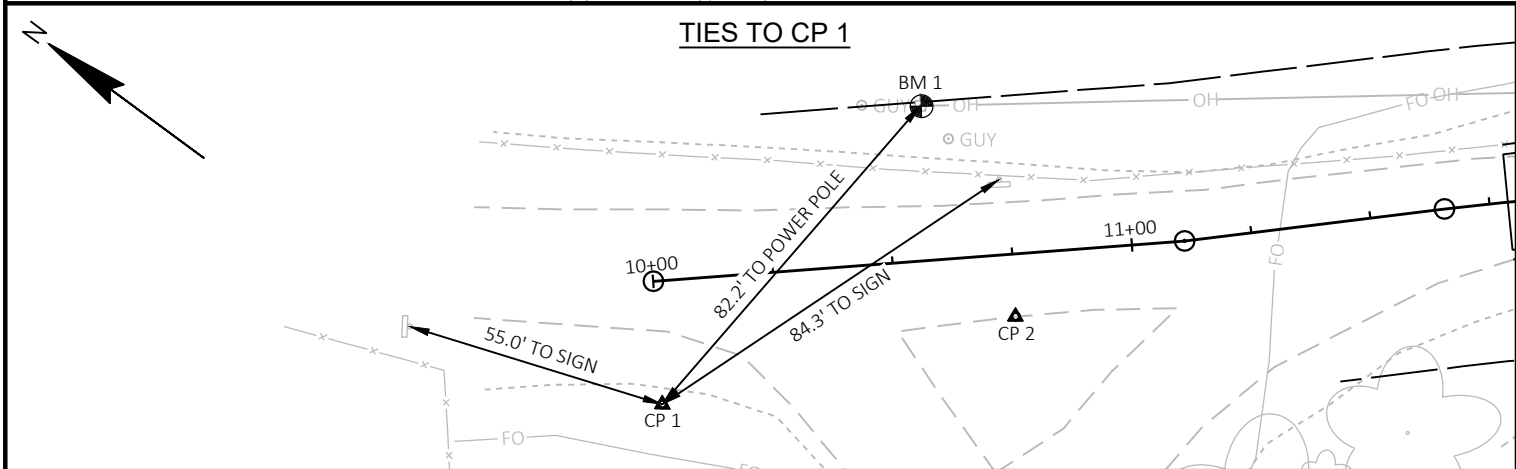
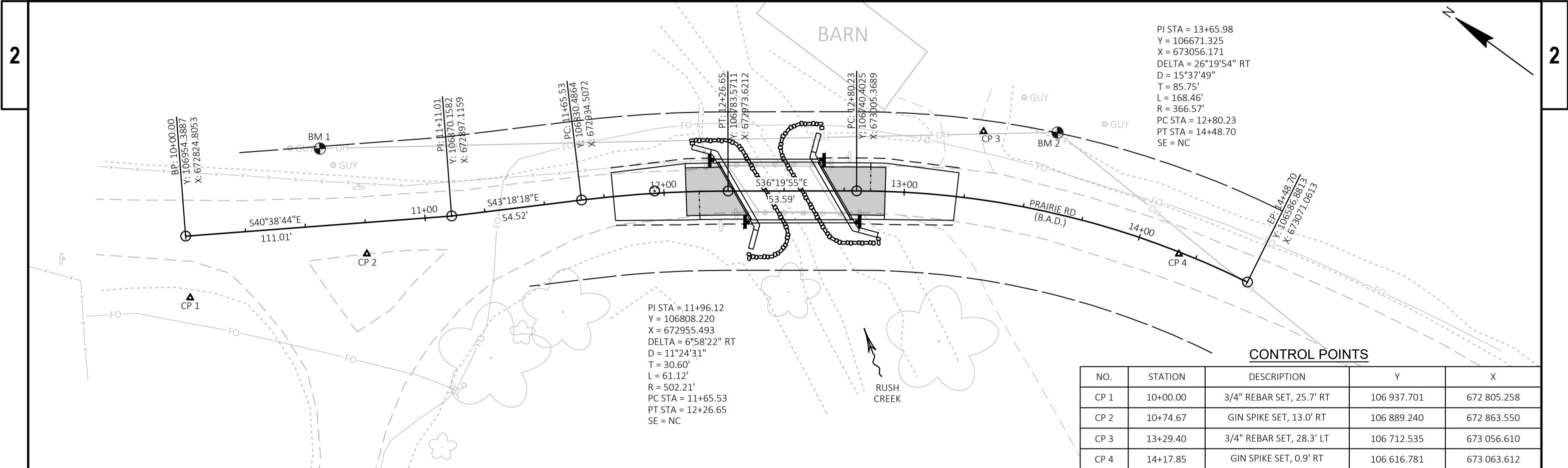
STA. 11+78.86 - STA. 13+21.76

**PROPOSED TYPICAL SECTION**STA. 11+78.86 - STA. 12+09.21  
STA 12+92.08 - STA 13+21.76**CONCRETE APPROACH SLAB TYPICAL SECTION**STA 12+09.21 - STA 12+29.63  
STA 12+70.98 - STA 12+92.08



NOTE:  
CONSTRUCT IN ACCORDANCE WITH SDD "SIGNING  
AND MARKING FOR TWO LANE BRIDGES"

PROJECT NO:	5405-00-70	HWY: PRAIRIE RD	COUNTY: VERNON	PERMANENT SIGNING	SHEET	4	E
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Estimate Of Quantities

5405-00-70

Line	Item	Item Description	Unit	Total	Qty
0002	203.0250	Removing Structure Over Waterway Remove Debris (structure) 01. P-62-329	EACH	1.000	1.000
0004	205.0100	Excavation Common	CY	135.000	135.000
0006	206.1001	Excavation for Structures Bridges (structure) 01. B-62-0272	EACH	1.000	1.000
0008	210.1500	Backfill Structure Type A	TON	300.000	300.000
0010	213.0100	Finishing Roadway (project) 01. 5405-00-70	EACH	1.000	1.000
0012	305.0110	Base Aggregate Dense 3/4-Inch	TON	20.000	20.000
0014	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	220.000	220.000
0016	415.0060	Concrete Pavement 6-Inch	SY	14.000	14.000
0018	415.0410	Concrete Pavement Approach Slab	SY	93.000	93.000
0020	455.0605	Tack Coat	GAL	8.000	8.000
0022	465.0105	Asphaltic Surface	TON	34.000	34.000
0024	502.0100	Concrete Masonry Bridges	CY	149.000	149.000
0026	502.3200	Protective Surface Treatment	SY	121.000	121.000
0028	502.3210	Pigmented Surface Sealer	SY	42.000	42.000
0030	505.0400	Bar Steel Reinforcement HS Structures	LB	4,600.000	4,600.000
0032	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	22,240.000	22,240.000
0034	516.0500	Rubberized Membrane Waterproofing	SY	12.000	12.000
0036	550.0020	Pre-Boring Rock or Consolidated Materials	LF	147.000	147.000
0038	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	210.000	210.000
0040	606.0300	Riprap Heavy	CY	130.000	130.000
0042	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	160.000	160.000
0044	618.0100	Maintenance and Repair of Haul Roads (project) 01. 5405-00-70	EACH	1.000	1.000
0046	619.1000	Mobilization	EACH	1.000	1.000
0048	624.0100	Water	MGAL	2.400	2.400
0050	625.0500	Salvaged Topsoil	SY	90.000	90.000
0052	627.0200	Mulching	SY	65.000	65.000
0054	628.1504	Silt Fence	LF	360.000	360.000
0056	628.1520	Silt Fence Maintenance	LF	580.000	580.000
0058	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0060	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0062	628.2008	Erosion Mat Urban Class I Type B	SY	25.000	25.000
0064	628.6005	Turbidity Barriers	SY	180.000	180.000
0066	629.0210	Fertilizer Type B	CWT	0.250	0.250
0068	630.0130	Seeding Mixture No. 30	LB	16.000	16.000
0070	630.0200	Seeding Temporary	LB	10.000	10.000
0072	630.0500	Seed Water	MGAL	6.500	6.500
0074	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0076	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0078	638.2602	Removing Signs Type II	EACH	13.000	13.000
0080	638.3000	Removing Small Sign Supports	EACH	10.000	10.000
0082	642.5001	Field Office Type B	EACH	1.000	1.000
0084	643.0420	Traffic Control Barricades Type III	DAY	1,633.000	1,633.000
0086	643.0705	Traffic Control Warning Lights Type A	DAY	3,266.000	3,266.000
0088	643.0900	Traffic Control Signs	DAY	1,278.000	1,278.000
0090	643.5000	Traffic Control	EACH	1.000	1.000
0092	645.0111	Geotextile Type DF Schedule A	SY	68.000	68.000
0094	645.0120	Geotextile Type HR	SY	200.000	200.000
0096	650.4500	Construction Staking Subgrade	LF	100.000	100.000
0098	650.5000	Construction Staking Base	LF	100.000	100.000

Estimate Of Quantities

5405-00-70					
Line	Item	Item Description	Unit	Total	Qty
0100	650.6501	Construction Staking Structure Layout (structure) 01. B-62-0272	EACH	1.000	1.000
0102	650.9911	Construction Staking Supplemental Control (project) 01. 5405-00-70	EACH	1.000	1.000
0104	650.9920	Construction Staking Slope Stakes	LF	100.000	100.000
0106	715.0502	Incentive Strength Concrete Structures	DOL	894.000	894.000
0108	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	500.000	500.000

3

3

DIVISION	FROM/TO STATION	205.0100 EXCAVATION COMMON	SALVAGED/UNUSABLE PAVEMENT MATERIAL	AVAILABLE MATERIAL	UNEXPANDED FILL	EXPANDED FILL	MASS ORDNATE +/- (6)	WASTE (7)
		(1)				(5)		
		CUT (2)				FACTOR 1.25		
DIVISION 1								
WEST APPROACH	11+78.86/12+35.21	61	---	61	39	49	12	12
DIVISION 1 SUBTOTAL		61	---	61	39	49	12	12
DIVISION 2								
EAST APPROACH	12+65.41/13+21.76	74	---	74	5	6	68	68
DIVISION 2 SUBTOTAL		74	---	74	5	6	68	68
GRAND TOTAL		135	---	135	44	55	80	80

NOTES:  
(1) EXCAVATION COMMON IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100  
(2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.  
(3) SALVAGED/UNUSABLE PAVEMENT MATERIAL  
(4) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL  
(5) EXPANDED FILL FACTOR = 1.25  
(6) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.  
(7) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

BASE AGGREGATE DENSE

STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH	624.0100 WATER
				TON	TON	MGAL
11+79	-	12+29	WEST APPROACH	10	110	1.2
12+72	-	13+22	EAST APPROACH	10	110	1.2
TOTAL				20	220	2.4

CONCRETE PAVEMENT

STATION	TO	STATION	LOCATION	415.0060 CONCRETE PAVEMENT 6-INCH	415.0410 CONCRETE PAVEMENT APPROACH SLAB
				SY	SY
12+09	-	12+29	WEST APPROACH	7	46
12+71	-	12+92	EAST APPROACH	7	47
TOTAL				14	93

ASPHALTIC SURFACE

STATION	TO	STATION	LOCATION	455.0605 TACK COAT	465.0105 ASPHALTIC SURFACE
				GAL	TON
11+79	-	12+29	WEST APPROACH	4	17
12+72	-	13+22	EAST APPROACH	4	17
TOTAL				8	34

MOBILIZATIONS EROSION CONTROL

LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
PROJECT	4	2
TOTAL	4	2

SILT FENCE

STATION	TO	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF
11+79	-	12+29	WEST APPROACH, LT	66	132
11+79	-	12+29	WEST APPROACH, RT	92	184
12+72	-	13+22	EAST APPROACH, LT	81	162
12+72	-	13+22	EAST APPROACH, RT	51	102
UNDISTRIBUTED				70	---
TOTAL				360	580

TURBIDITY BARRIERS

LOCATION	628.6005 SY
WEST APPROACH	68
EAST APPROACH	76
UNDISTRIBUTED	36
TOTAL	180

FINISHING ITEMS

STATION	TO	STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
11+79	-	12+29	WEST APPROACH, LT	27	16	11	0.05	4	2	1.6
11+79	-	12+29	WEST APPROACH, RT	16	16	---	0.04	3	2	1.1
12+72	-	13+22	EAST APPROACH, LT	18	10	9	0.06	4	3	1.8
12+72	-	13+22	EAST APPROACH, RT	9	9	---	0.02	2	1	0.6
UNDISTRIBUTED				20	14	5	0.08	3	2	1.4
TOTAL				90	65	25	0.25	16	10	6.5

TRAFFIC CONTROL

LOCATION	DURATION DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III		643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A		643.0900 TRAFFIC CONTROL SIGNS		643.5000 TRAFFIC CONTROL
		NO.	DAY	NO.	DAY	NO.	DAY	EACH
WEST APPROACH	71	9	639	18	1,278	7	497	---
EAST APPROACH	71	9	639	18	1,278	7	497	---
UNDISTRIBUTED	71	5	355	10	710	4	284	---
PROJECT	---	---	---	---	---	---	---	1
TOTAL		23	1,633	46	3,266	18	1,278	1

PERMANENT SIGNING

STATION	LOCATION	SIGN NUMBER	SIGN CODE	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	637.2230 SIGNS TYPE II REFLECTIVE F	638.2602 REMOVING SMALL SIGN TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS	REMARKS
					SF	EACH	EACH	
---	WEST APPROACH, LT	1R	R12-55	---	---	1	1	20 TON BRIDGE 1.2 MILES AHEAD
---	WEST APPROACH, LT	2R	W5-2	---	---	1	1	NARROW BRIDGE
12+18	WEST APPROACH, LT	3R	R12-1	---	---	2	1	WEIGHT LIMIT 20 TONS & WATCH FOR SIGN AHEAD
12+21	WEST APPROACH, LT	4	W5-52L	1	3	---	---	BRIDGE HASH MARKS
12+25	WEST APPROACH, RT	4R	W5-52L	---	---	1	1	BRIDGE HASH MARKS
12+31	WEST APPROACH, RT	5R	W5-52R	---	---	1	1	BRIDGE HASH MARKS
12+35	WEST APPROACH, RT	5	W5-52R	1	3	---	---	BRIDGE HASH MARKS
12+65	EAST APPROACH, LT	6	W5-52R	1	3	---	---	BRIDGE HASH MARKS
12+69	EAST APPROACH, LT	6R	W5-52R	---	---	1	1	BRIDGE HASH MARKS
12+76	EAST APPROACH, LT	7R	R12-1	---	---	2	1	WEIGHT LIMIT 20 TONS & SIGN
12+80	EAST APPROACH, RT	8R	W5-52L	---	---	1	1	BRIDGE HASH MARKS
12+80	EAST APPROACH, RT	8	W5-52L	1	3	---	---	BRIDGE HASH MARKS
---	EAST APPROACH, RT	9R	W5-2	---	---	1	1	NARROW BRIDGE
---	EAST APPROACH, RT	10R	R12-55	---	---	2	1	20 TON BRIDGE 1 MILES AHEAD & WATCH FOR SIGN AHEAD
TOTAL				4	12	13	10	

CONSTRUCTION STAKING

STATION	TO	STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.6501.01 CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) (01. B-62-0272) EACH	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (01. 5405-00-70) EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
11+79	-	12+29	WEST APPROACH	50	50	---	---	50
12+72	-	13+22	EAST APPROACH	50	50	---	---	50
PROJECT				---	---	1	1	---
TOTAL				100	100	1*	1	100

\*CATEGORY 0020

ALL ITEMS CATEGORY 0010 UNLESS NOTED OTHERWISE

PROJECT NO: 5405-00-70

HWY: PRAIRIE RD

COUNTY: VERNON

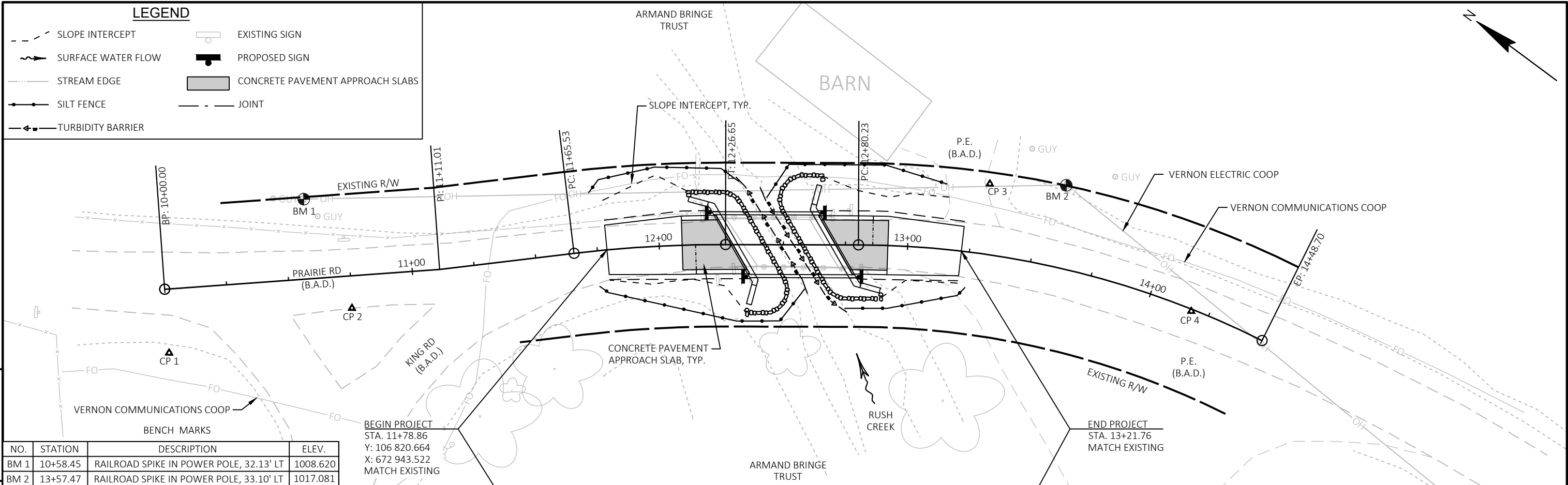
MISCELLANEOUS QUANTITIES

SHEET

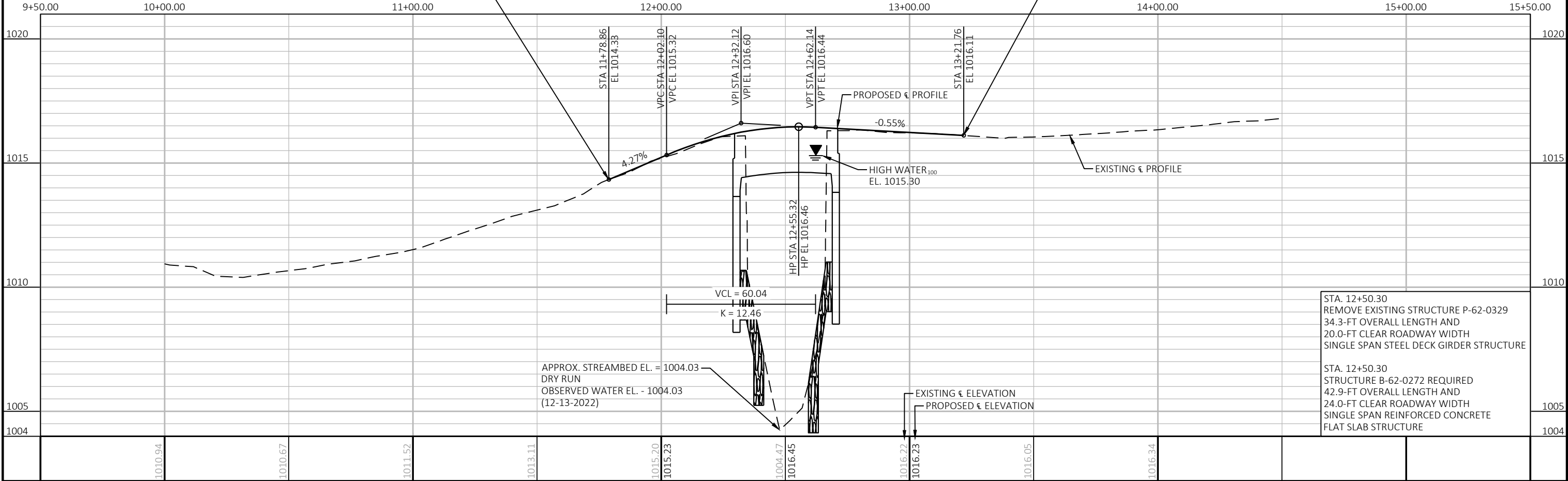
8

E





NO.	STATION	DESCRIPTION	ELEV.
BM 1	10+58.45	RAILROAD SPIKE IN POWER POLE, 32.13' LT	1008.620
BM 2	13+57.47	RAILROAD SPIKE IN POWER POLE, 33.10' LT	1017.081



Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13C19-03	HMA LONGITUDINAL JOINTS
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS



- ① 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 1½" X 1½" 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.

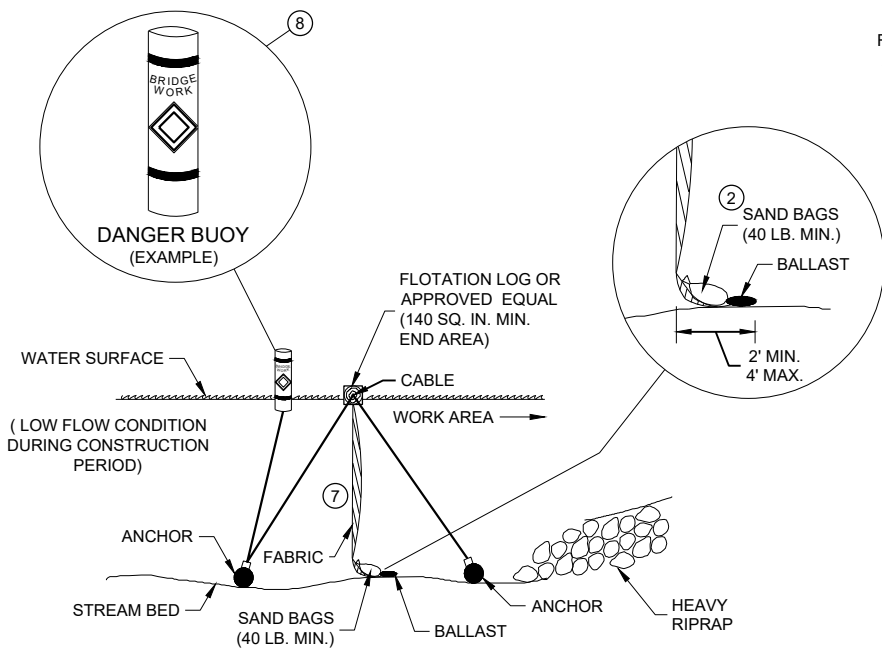


**SILT FENCE**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

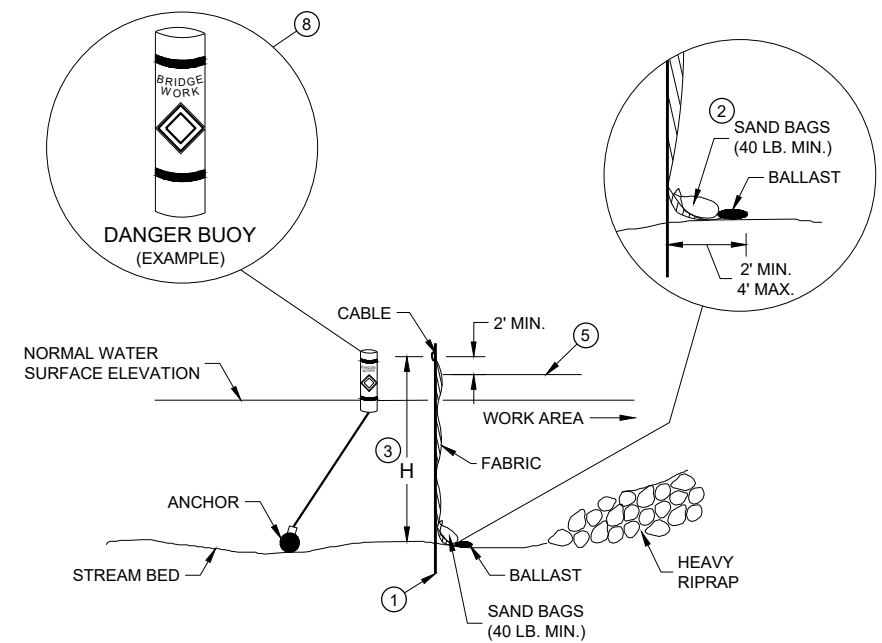
APPROVED  
4-29-05 /S/ Beth Connolly  
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA



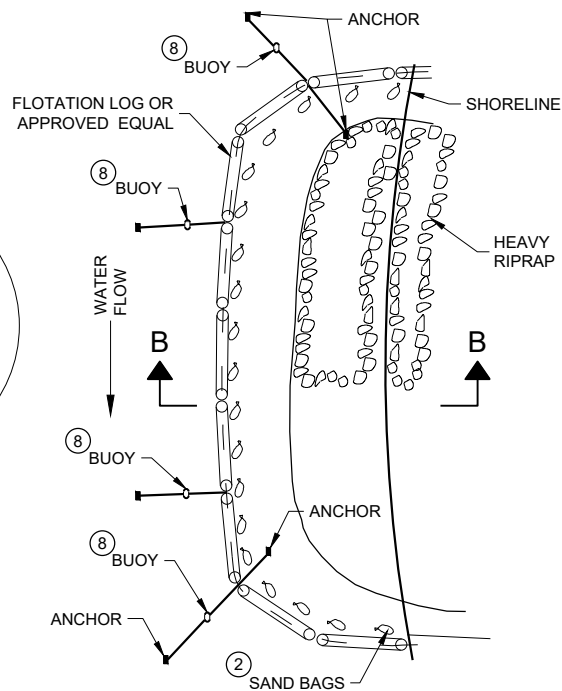
SECTION B - B

TURBIDITY BARRIER - FLOAT ALTERNATIVE  
CAUTION - SEE NOTE 6

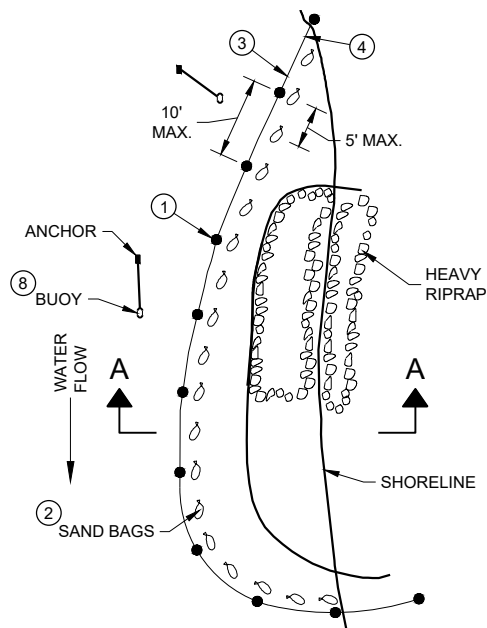


SECTION A - A

TURBIDITY BARRIER - STANDARD POST INSTALLATION



PLAN VIEW



PLAN VIEW

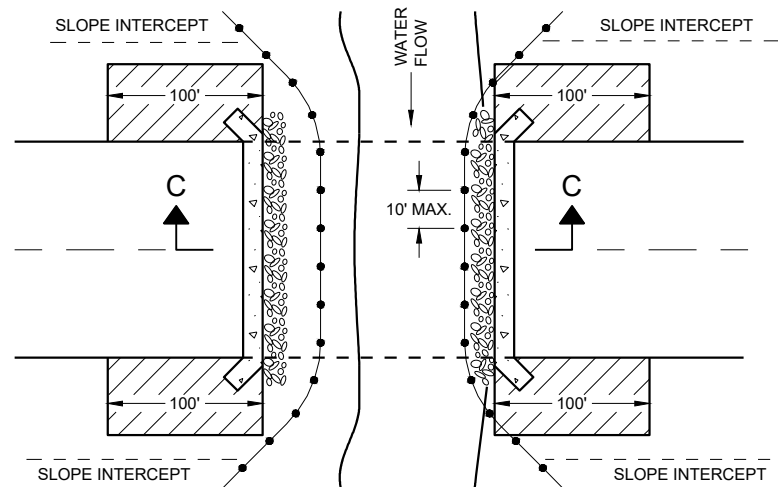
TURBIDITY BARRIER PLACEMENT DETAILS

## GENERAL NOTES

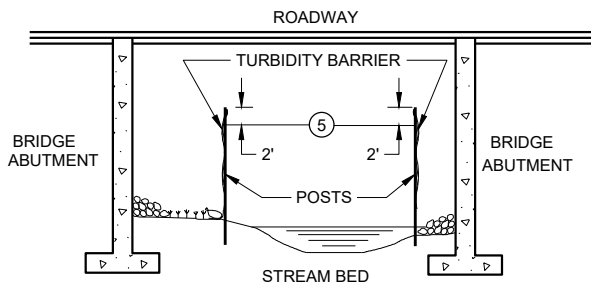
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

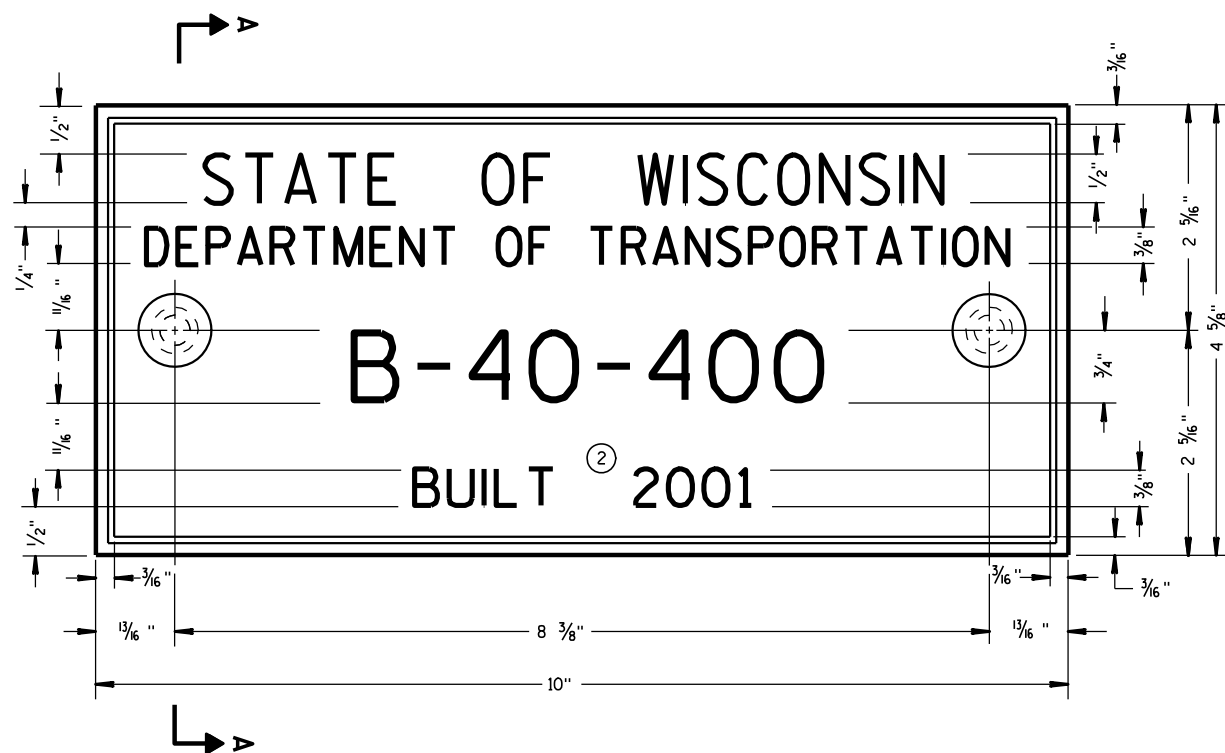
TURBIDITY BARRIER DETAIL SHOWING  
TYPICAL PLACEMENT AT STRUCTURES

## TURBIDITY BARRIER

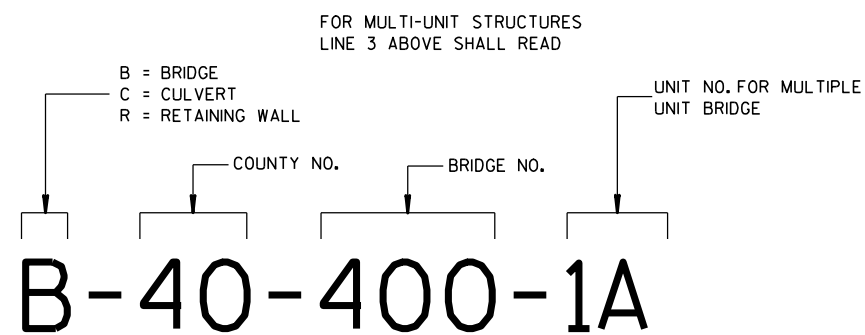
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
6/4/02 DATE /S/ Beth Cannestra  
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER 12

FHWA



**TYPICAL NAME PLATE**  
(BRIDGES, CULVERTS, AND RETAINING WALLS)



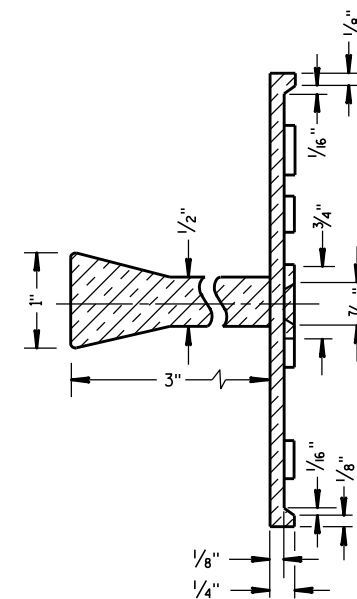
**NUMBERING DESIGNATION  
MULTI-UNIT STRUCTURES**

## GENERAL NOTES

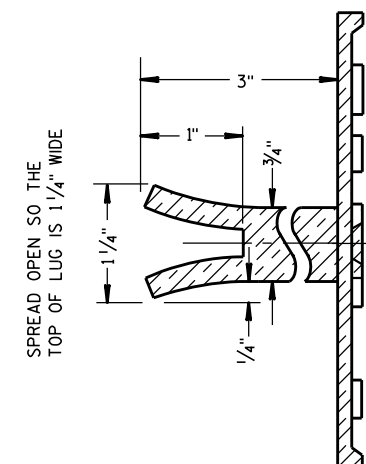
NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

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.
- ② REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.

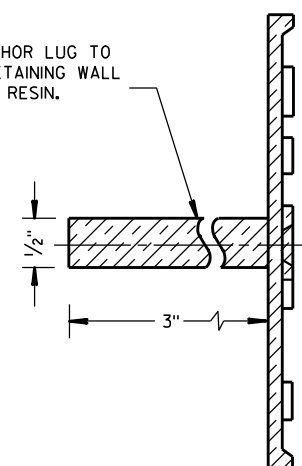


**SECTION A-A**



**ALTERNATE LUG**

- ① ADHERE ANCHOR LUG TO PRECAST RETAINING WALL WITH EPOXY RESIN.



**ALTERNATE LUG**  
(FOR ATTACHMENT TO PRECAST STRUCTURES)

**NAME PLATE  
(STRUCTURES)**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

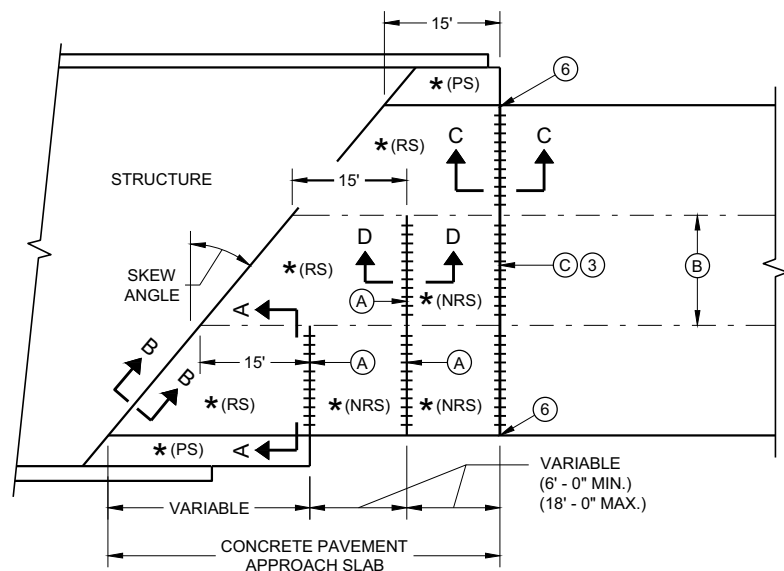
APPROVED

3/26/10  
DATE

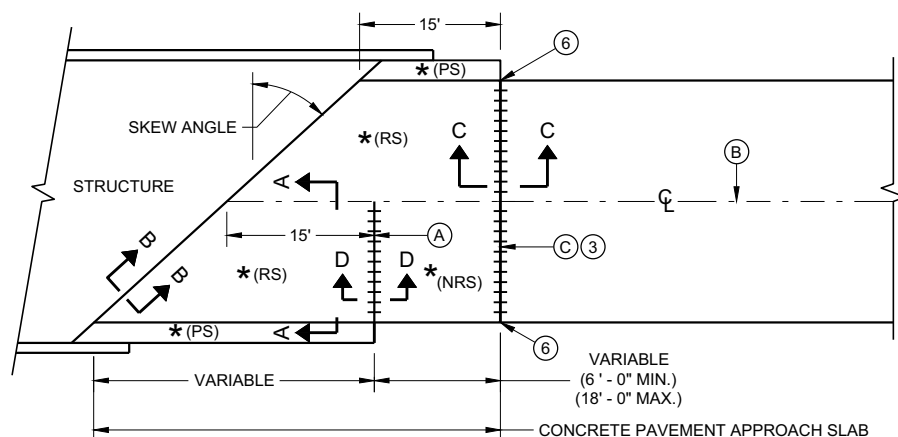
FHWA

/S/ Scot Beck  
CHIEF STRUCTURAL DEVELOPER

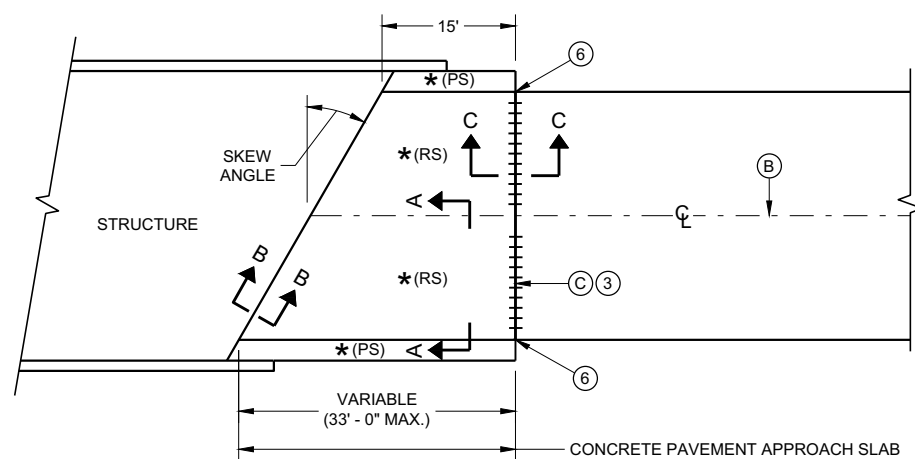
JEER



**SKewed APPROACH  
(PAVEMENT MORE THAN TWO LANES)**



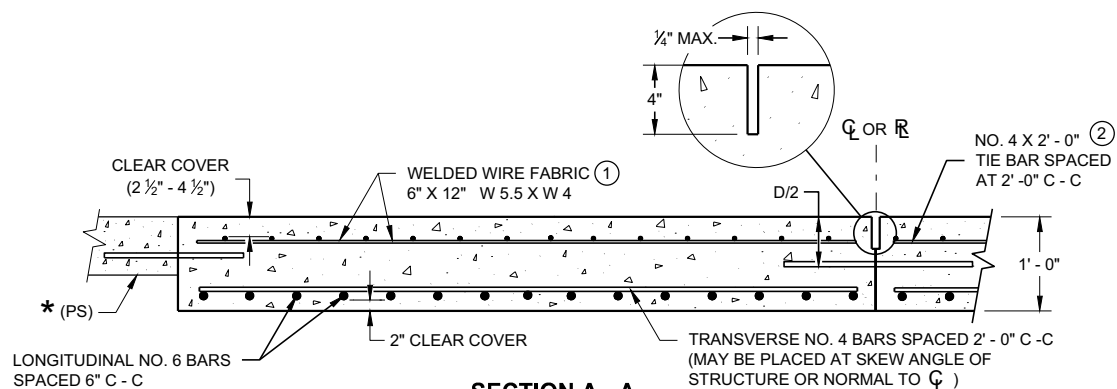
**SKews > 20°  
(PAVEMENT WIDTH ≤ 30')**



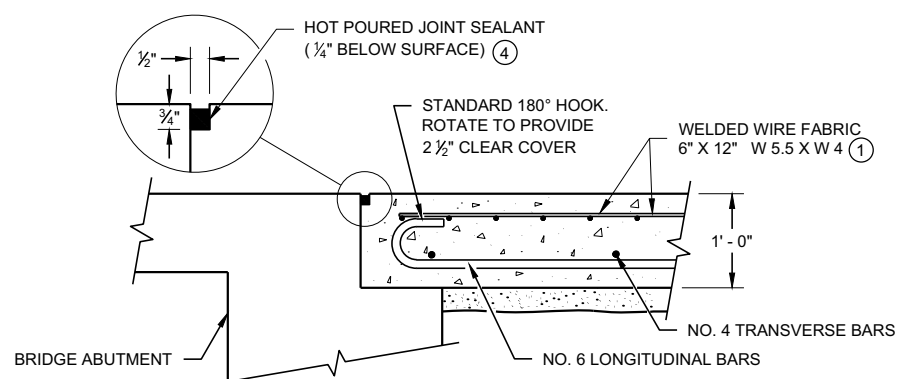
**SKews ≤ 20°  
(PAVEMENT WIDTH ≤ 30')**

**APPROACH SLAB AND ADJACENT PAVEMENT**

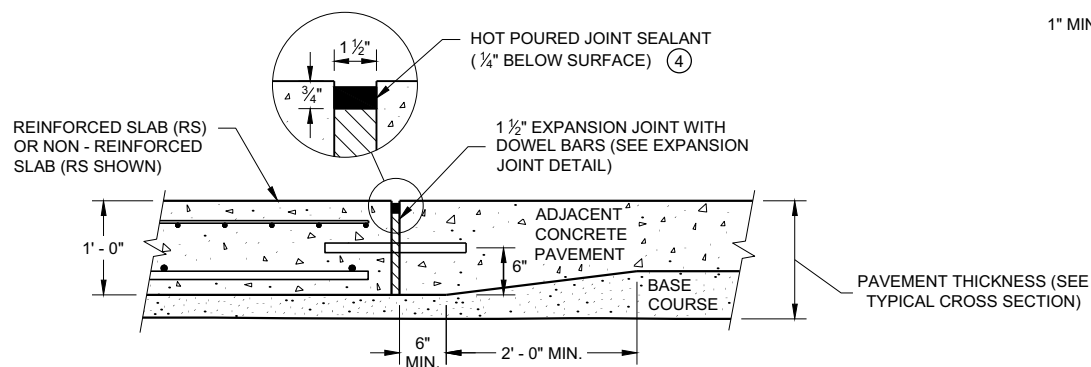
- \* (RS) = REINFORCED CONCRETE SLAB
- \* (PS) = PAVED CONCRETE SHOULDER OR CONCRETE DRAINAGE SLAB
- \* (NRS) = NON - REINFORCED CONCRETE SLAB
- \*\*\* STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11 AND SDD 13C13)



**SECTION A - A  
REINFORCEMENT POSITIONING DETAIL**



**SECTION B - B  
BEND DETAIL  
BOTTOM REINFORCEMENT**



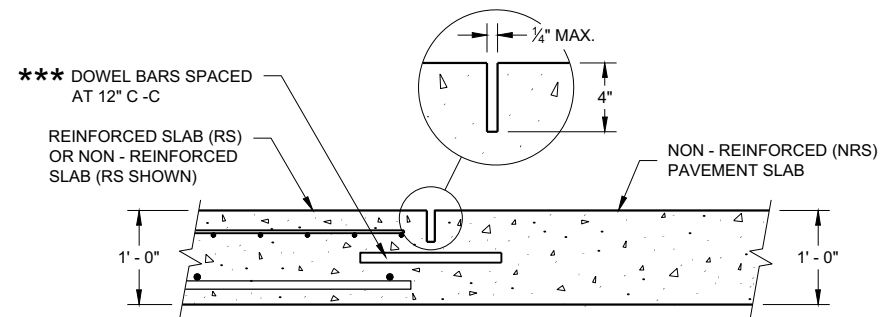
**SECTION C - C  
TRANSITION DETAIL  
APPROACH SLAB TO ADJACENT PAVEMENT**

## GENERAL NOTES

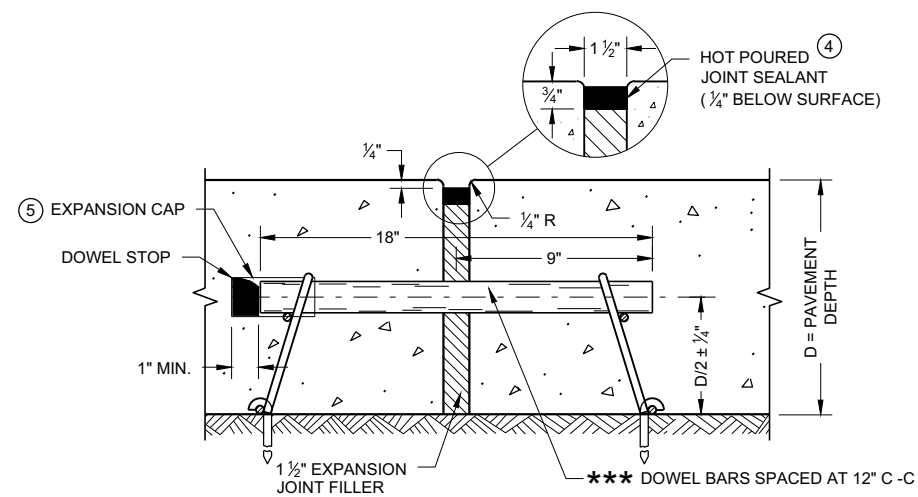
THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

- ① THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2' - 0" C - C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.
- ② THE CONTRACTOR MAY OMIT THE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.
- ③ DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.
- ④ USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.
- ⑤ PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.
- ⑥ EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.
- (A) STANDARD CONTRACTION JOINT NORMAL TO  $\mathcal{C}$  OR  $\mathcal{R}$ .
- (B) STANDARD LONGITUDINAL JOINT WITH TIE BARS.
- (C) 1 1/2" EXPANSION JOINT WITH DOWEL BARS NORMAL TO  $\mathcal{C}$  OR  $\mathcal{R}$ .



**SECTION D - D  
CONTRACTION JOINT**



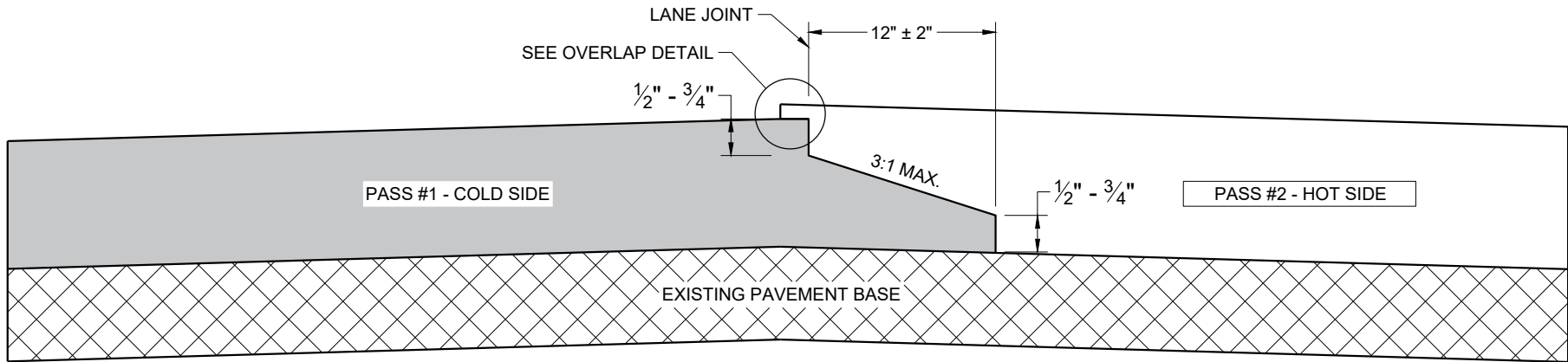
**EXPANSION JOINT DETAIL**

## CONCRETE PAVEMENT APPROACH SLAB

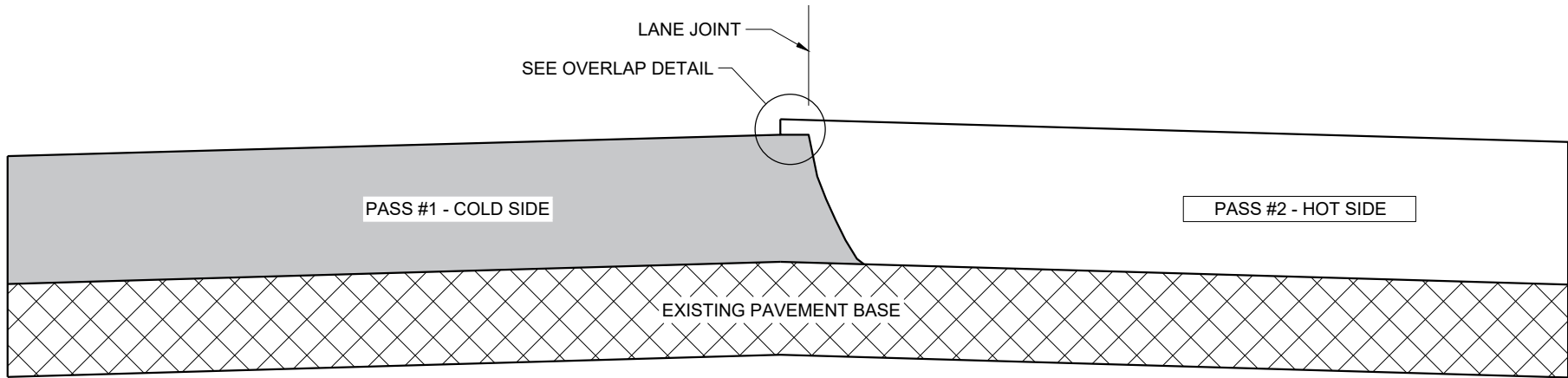
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
November 2018 /S/ Peter Kemp, P.E.  
DATE PAVEMENT SUPERVISOR 14

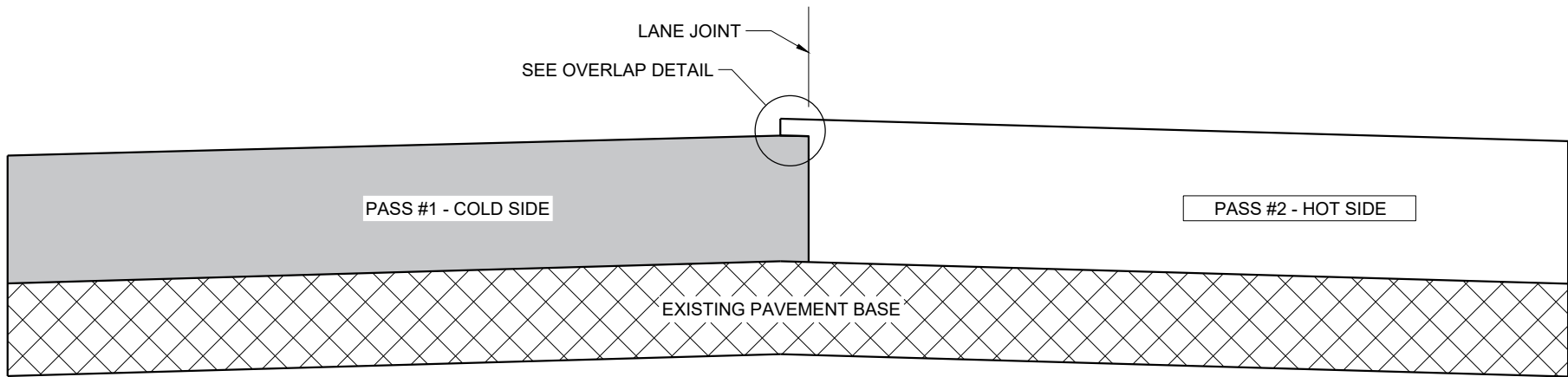
FHWA



**TYPICAL PAVEMENT CROSS SECTION  
NOTCHED WEDGE JOINT**



**TYPICAL PAVEMENT CROSS SECTION  
VERTICAL JOINT**



**TYPICAL PAVEMENT CROSS SECTION  
VERTICAL JOINT (MILLED)**

**GENERAL NOTES**

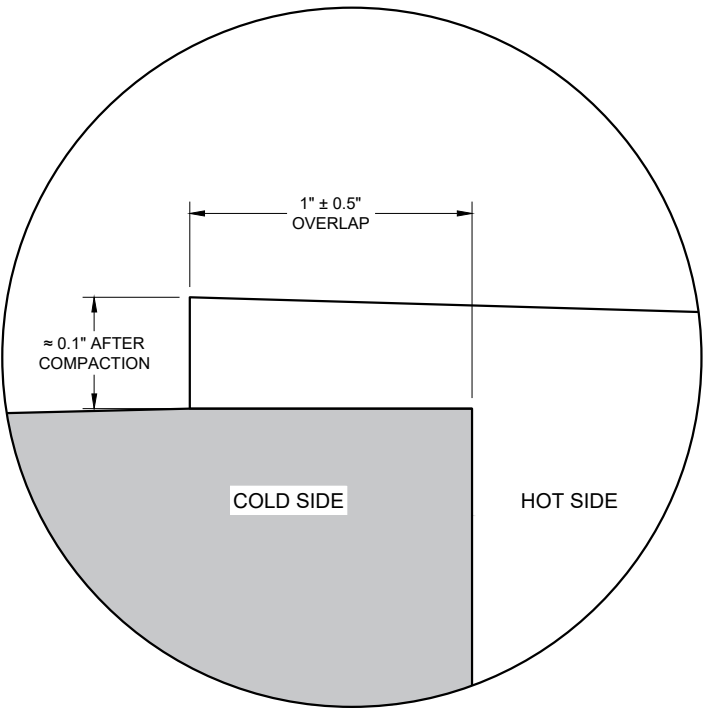
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



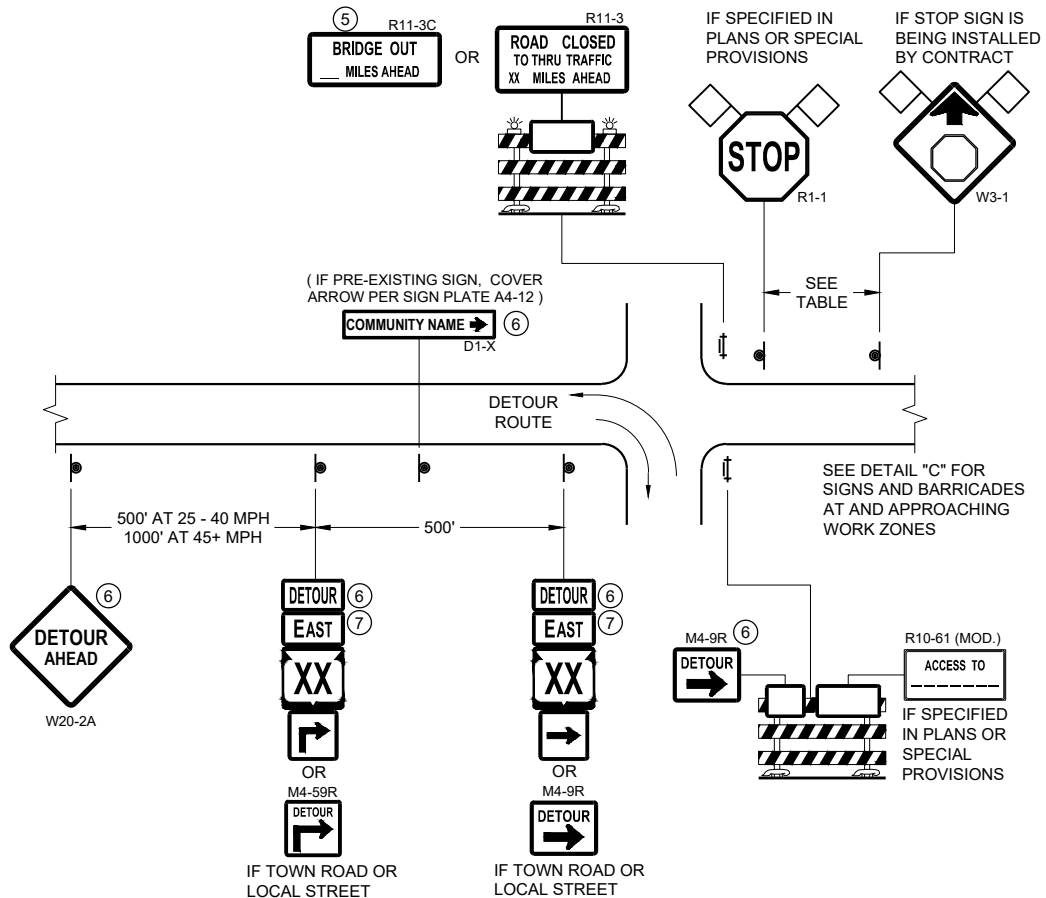
**OVERLAP DETAIL (TYPICAL)**

**HMA LONGITUDINAL JOINTS**

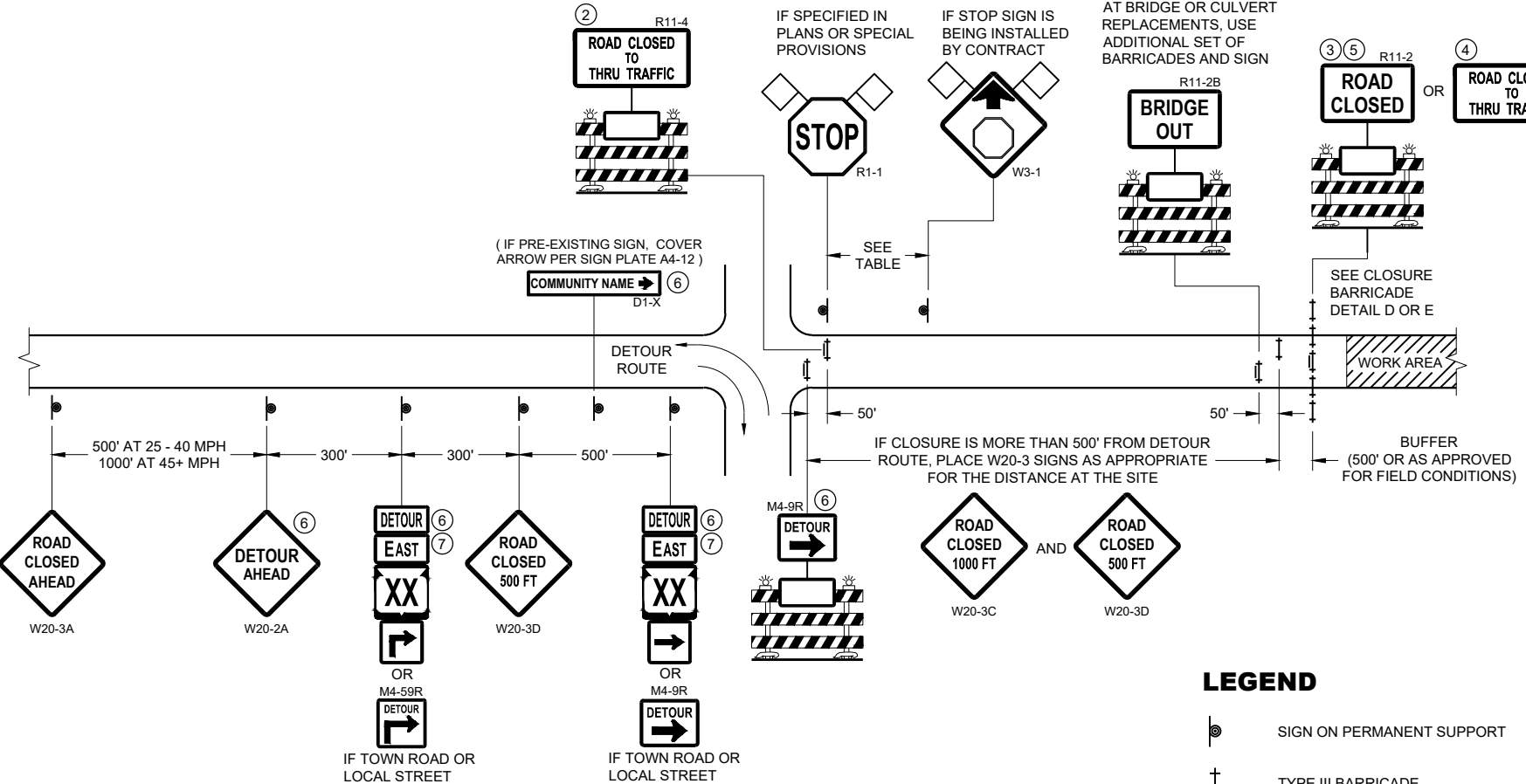
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
November 2020 /S/ Steven Hefel  
DATE HMA PAVEMENT ENGIN 15

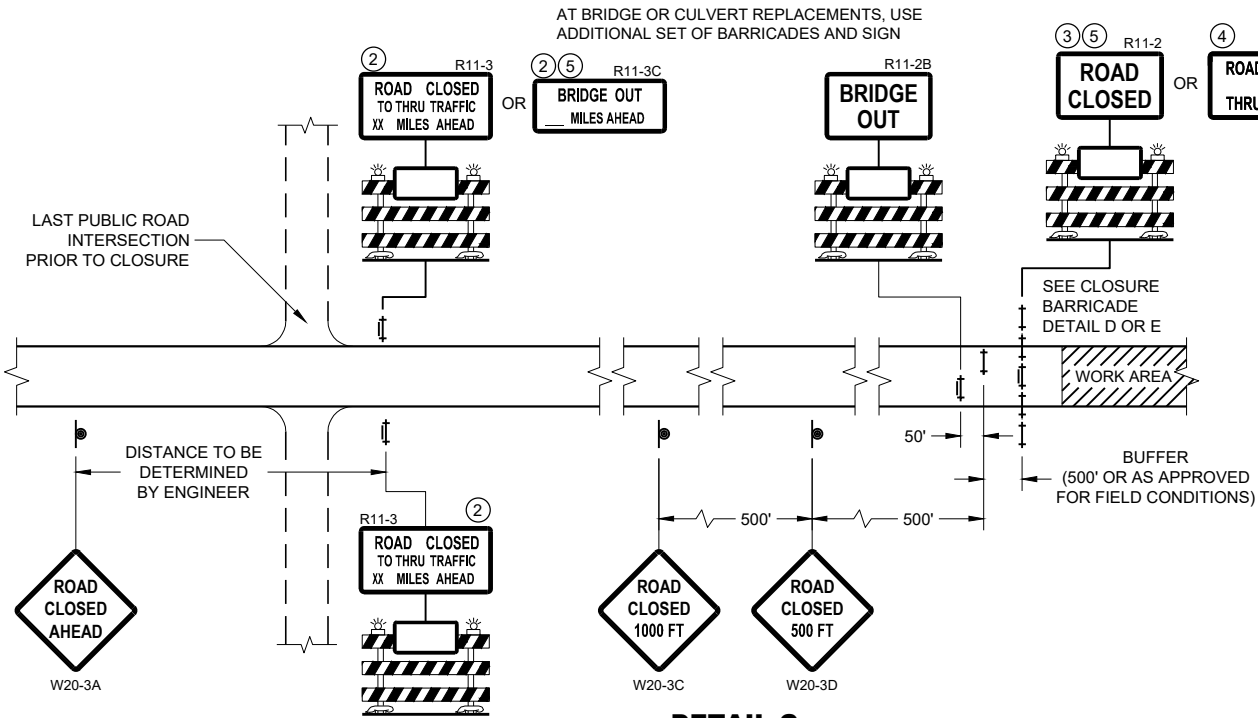
FHWA



**DETAIL A**  
**MAINLINE CLOSURE WITH POSTED DETOUR**  
WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM  
DETOUR ROUTE ( 1000 FEET IF URBAN )



**DETAIL B**  
**MAINLINE CLOSURE WITH POSTED DETOUR**  
WORK ZONE LESS THAN ½ MILE FROM  
DETOUR ROUTE ( 1000 FEET IF URBAN )



**DETAIL C**  
**MAINLINE CLOSURE, NO POSTED DETOUR**

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"  
FOR GENERAL NOTES  
AND FOOTNOTES ① THROUGH ⑦

**LEGEND**

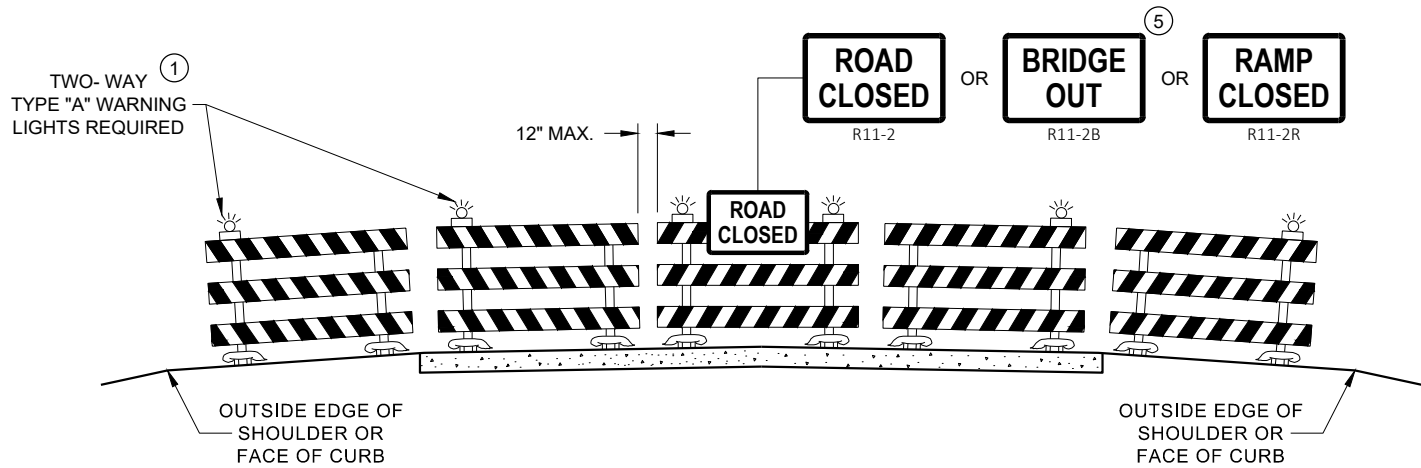
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)
- DETOUR M4 - 8
- EAST M3 - X
- XX M1 - 4 OR XX M1 - 6 OR COUNTY M1 - 5A
- OR M05 - 1 OR M06 - 1

**BARRICADES AND SIGNS  
FOR MAINLINE CLOSURES**

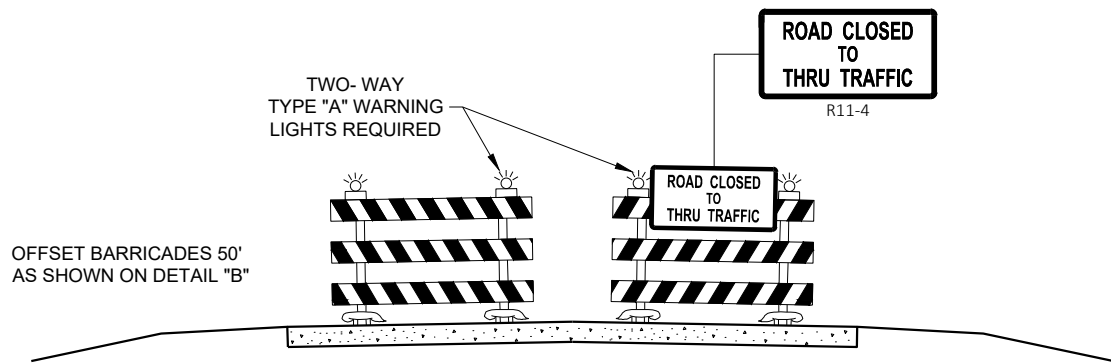
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
May 2023 /S/ Andrew Heidtke  
DATE WORK ZONE ENGINEER 16  
FHWA





**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 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"

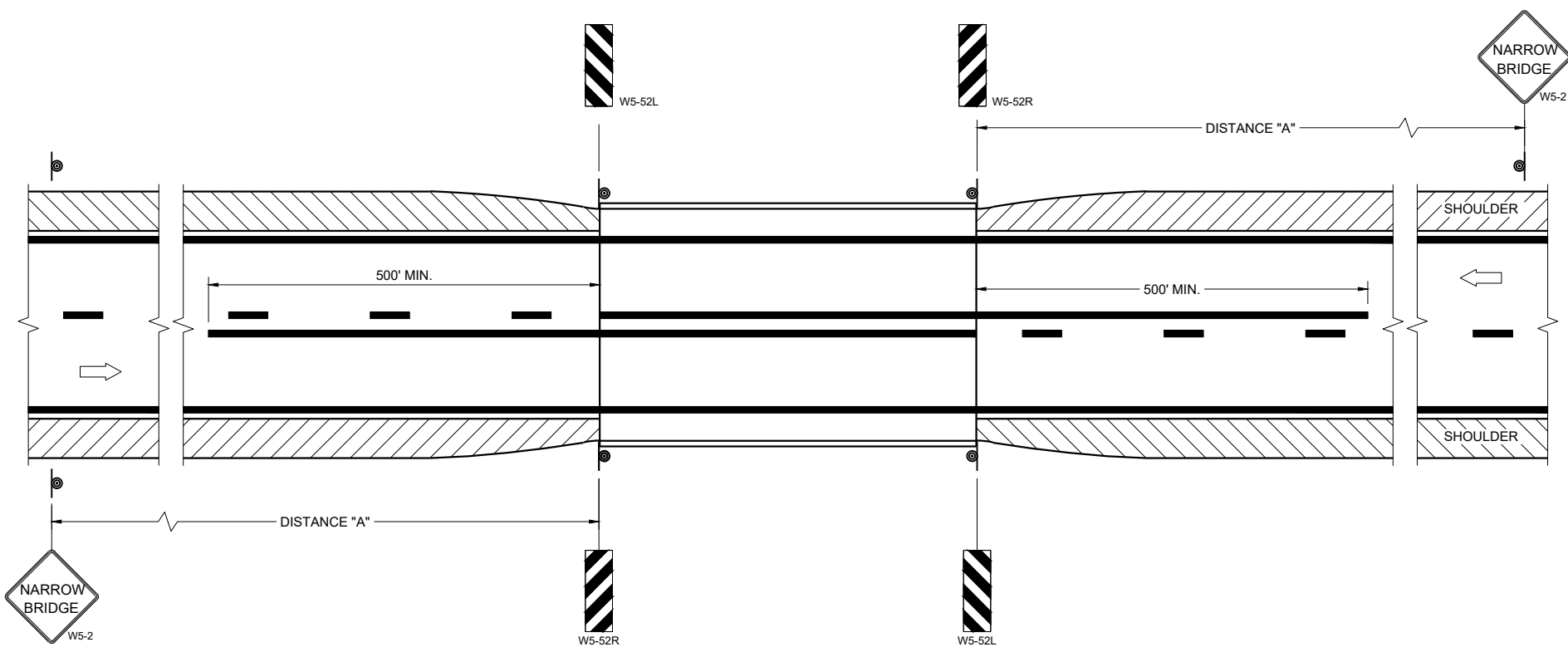
- 1 TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING).
- 2 THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- 3 FOR ROAD CLOSURE WITHOUT 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**

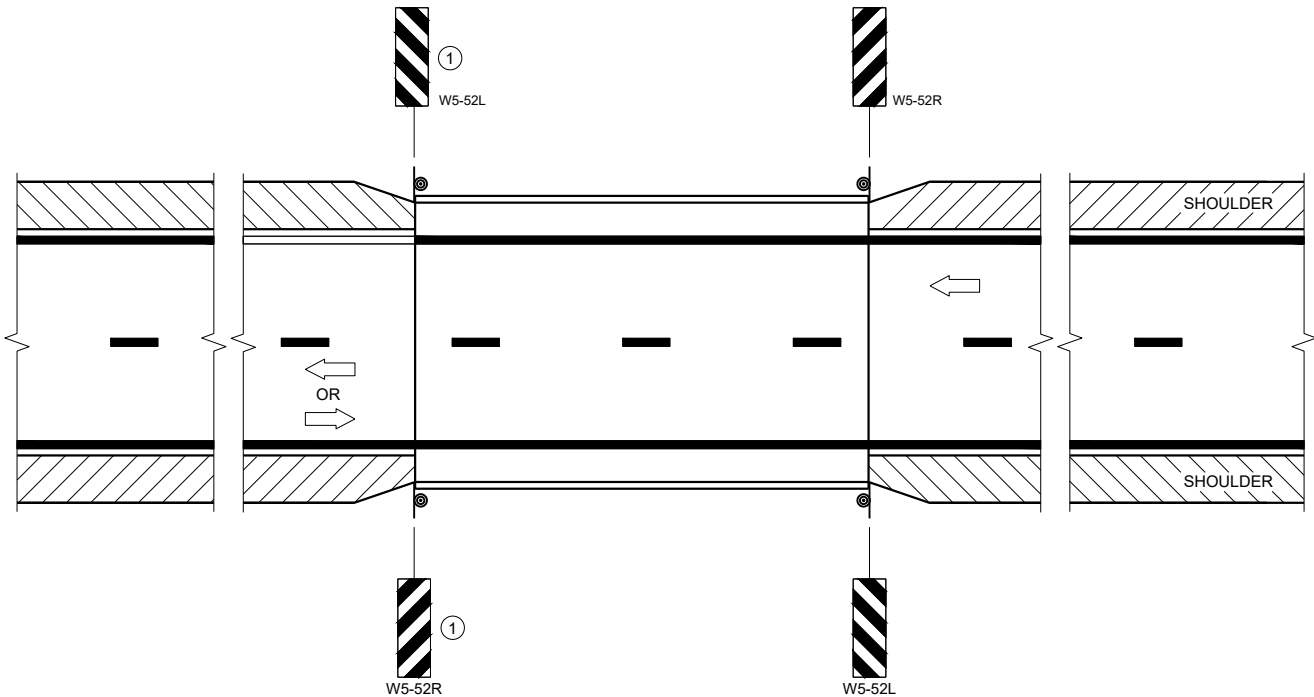
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
May 2023 /S/ Andrew Heidtke  
DATE WORK ZONE ENGINEER 17

FHWA



**SITUATION 1**  
WARRANTING CRITERIA:  
BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.



**SITUATION 2**  
WARRANTING CRITERIA:  
1. BRIDGE WIDTH IS AT LEAST 24 FEET AND  
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  
FHWA



BALLAST WIDTHS  
RANGE FROM 24"-36"



DO NOT USE IN TAPERS  
 1/2 SPACING OF DRUMS  
 BALLAST WIDTHS  
 RANGE FROM 14"-20"



THE STRIPES SHALL SLOPE DOWNWARD TO  
THE TRAFFIC SIDE FOR CHANNELIZATION.



FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES  
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD  
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



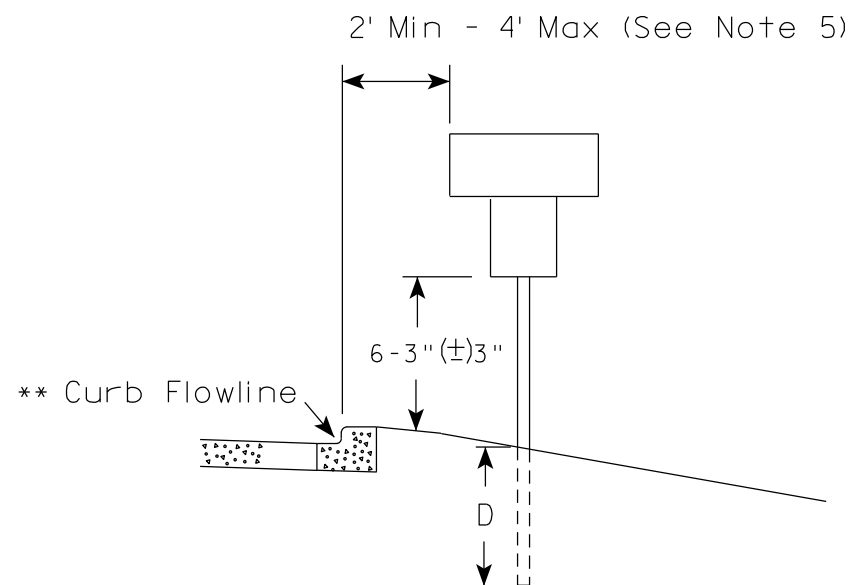
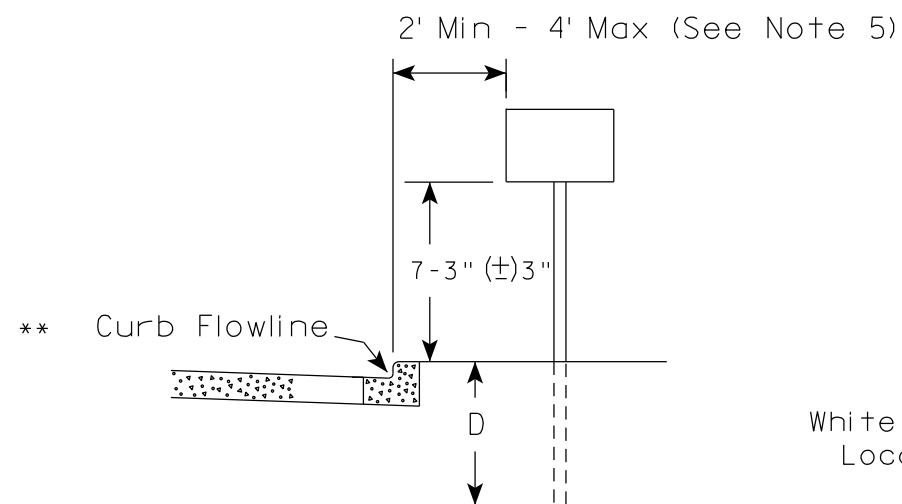
IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

\* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

## GENERAL NOTES

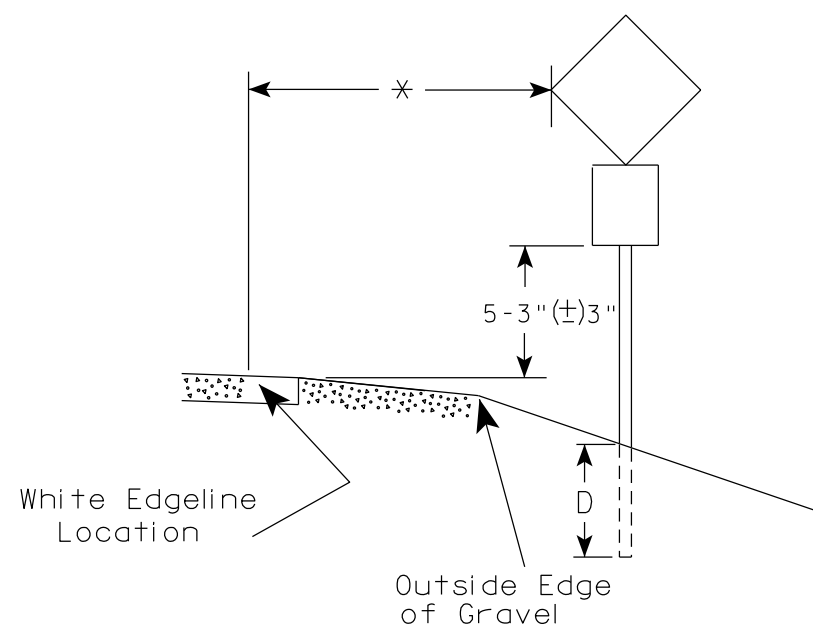
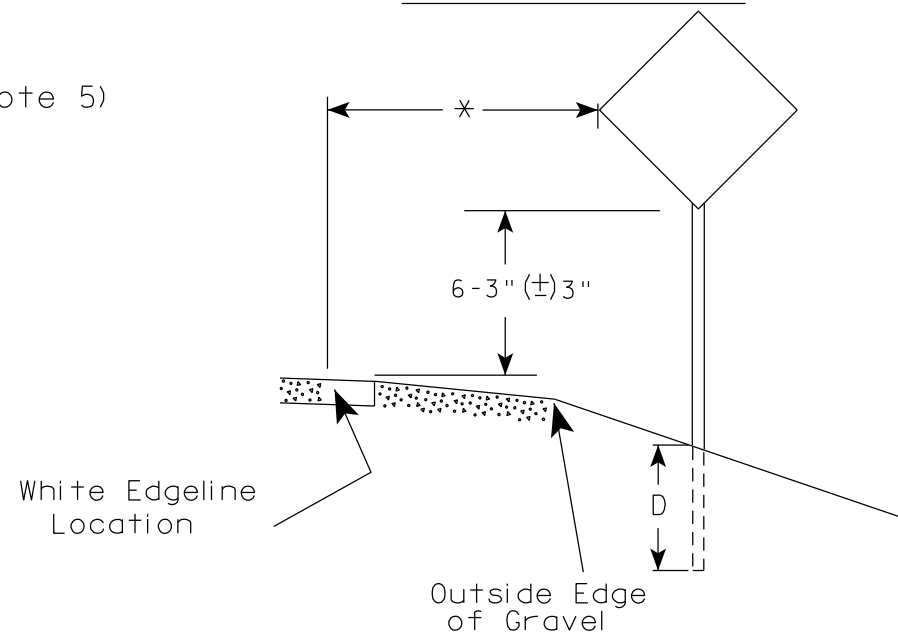
- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

## URBAN AREA



\* \* 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.

## RURAL AREA (See Note 2)



\* 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.

## 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" (±) 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" (±) 3".
3. For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 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" (±) 3" or as directed by the Engineer.

### POST EMBEDMENT DEPTH

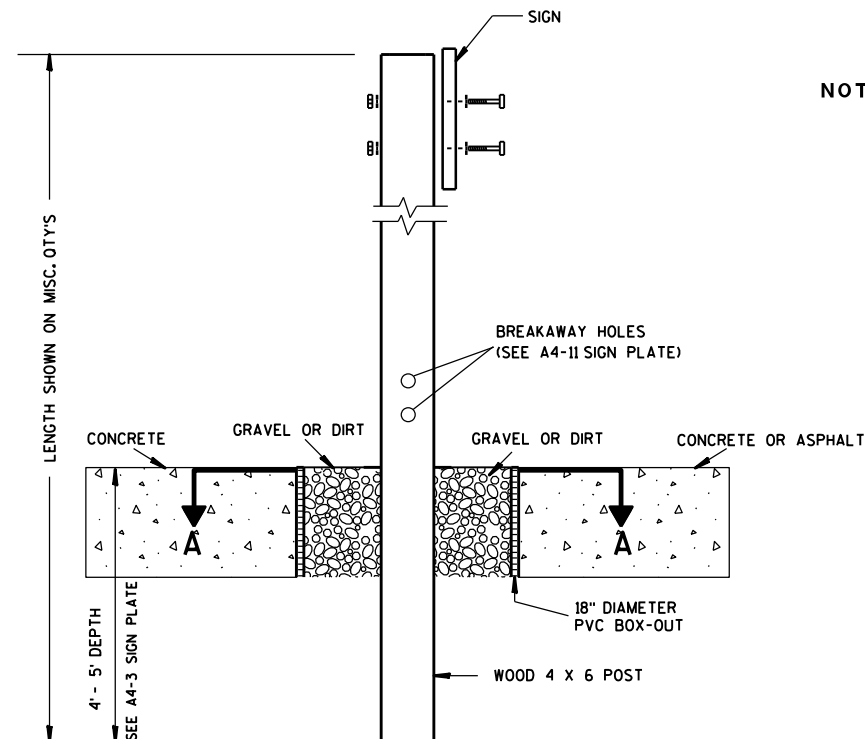
Area of Sign Installation ( Sq. Ft. )	D ( Min )
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION  
OF PERMANENT TYPE II  
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

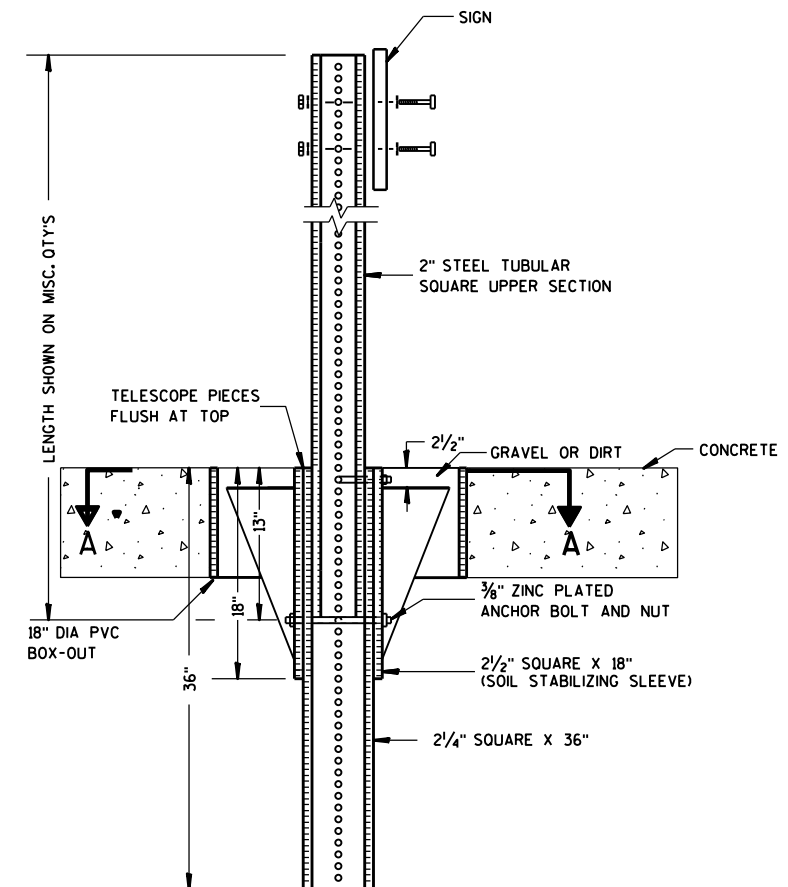
DATE 12/6/23 PLATE NO. A4-3.23



**ELEVATION VIEW**

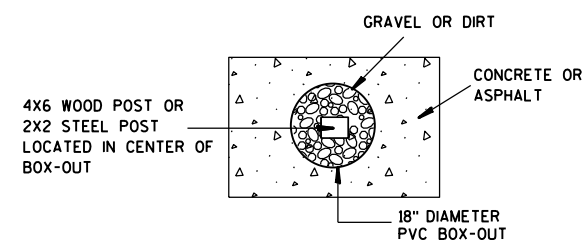
**DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT**

- 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**



**PLAN VIEW**

**FOR NEW CONCRETE/ASPHALT INSTALLATIONS**

**SIGN POST  
BOX-OUTS  
A4-3B**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 1/27/14 PLAT 21 A4-3B.1

PROJECT NO:

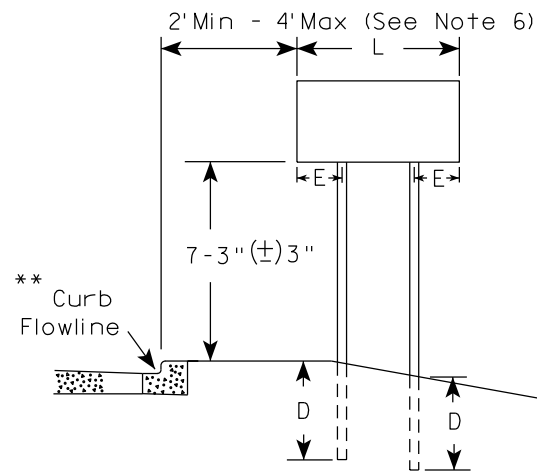
HWY:

COUNTY:

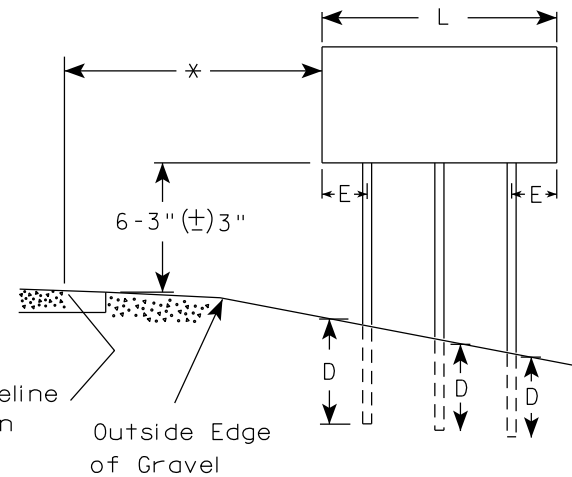
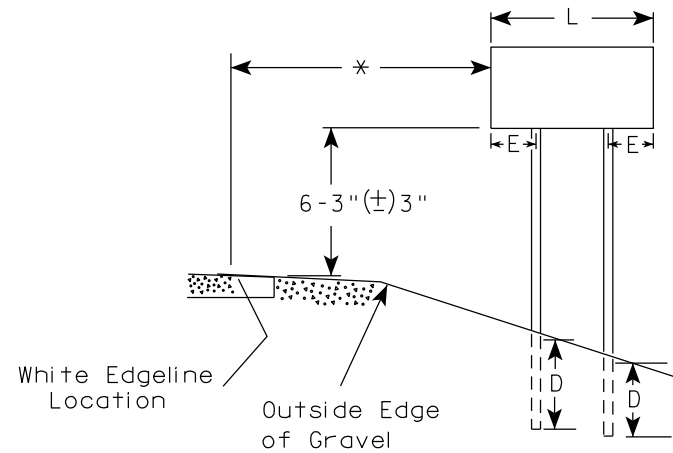
SHEET NO:

E

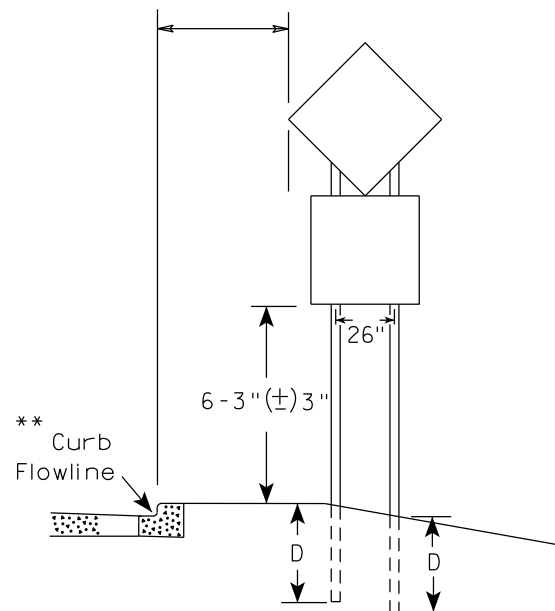
URBAN AREA



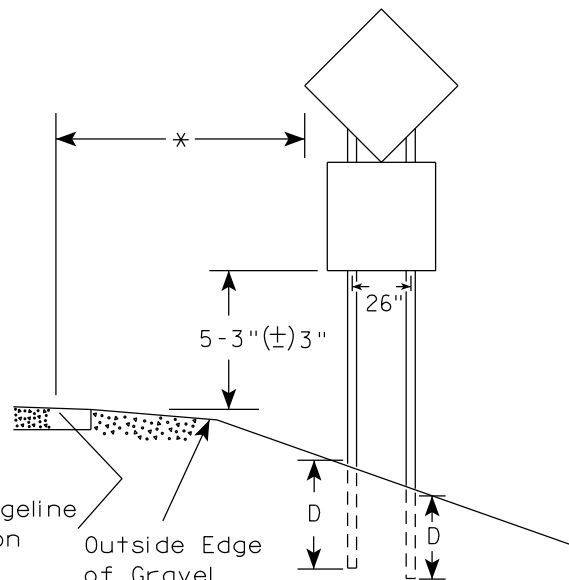
RURAL AREA (See Note 3)



2' Min - 4' Max (See Note 6)



48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

\*\*\*

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION  
OF TYPE II SIGNS  
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

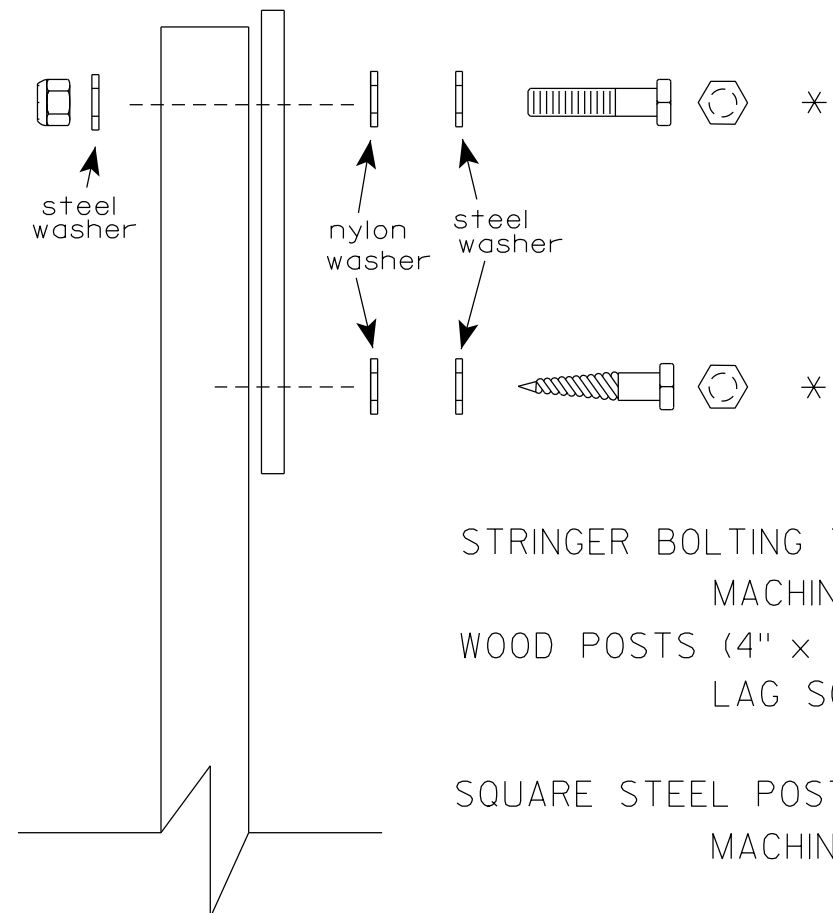
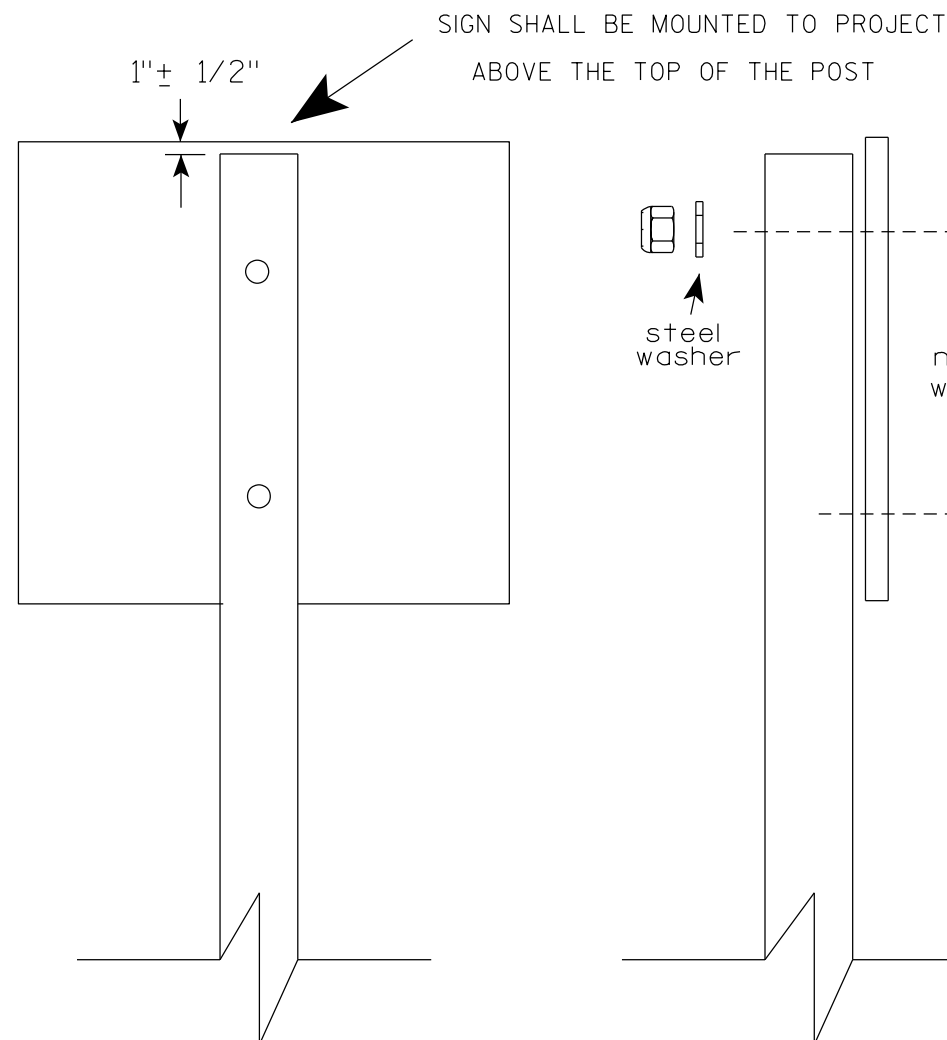
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 22

E



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.

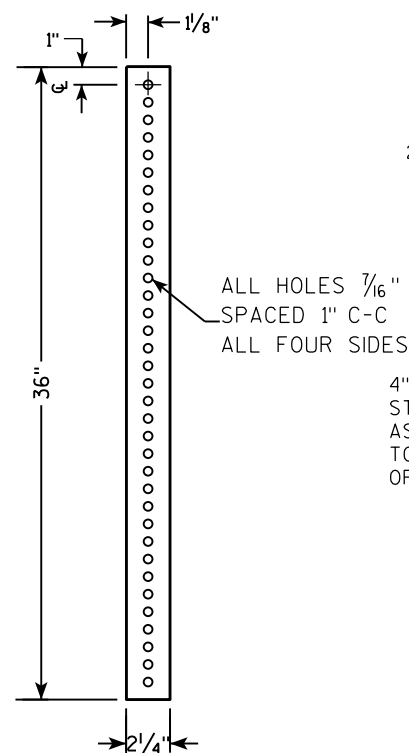
Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

- 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" x 6")
- LAG SCREWS -  $\frac{3}{8}$ " X 3" (NO STRINGERS ON BACK OF SIGN)  
 $\frac{3}{8}$ " X 4" (STRINGERS ON BACK OF SIGN)
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS -  $\frac{3}{8}$ " X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)  
 $\frac{3}{8}$ " X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
- RIVETS -  $\frac{9}{32}$ " (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	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 4/1/2020	PLATE NO. A4-8.9

**2 1/4" SQUARE  
12 GAUGE  
PERFORATED  
GALVANIZED FINISH**



2 1/2" TELESPAR TUBE

4" x 10" x 10 GA. STEEL PLATE (CUT AS SHOWN) WELDED TO ALL FOUR CORNERS OF TELESPAR TUBE

4"

2 1/2"

10"

3 1/2"

18"

TECHNICAL DRAWING OF A VERTICAL SIGNPOST ASSEMBLY.

**Labels and Dimensions:**

- TELESCOPE PIECES FLUSH AT TOP**: Indicated by arrows pointing to the top of the vertical sections.
- 2" STEEL TUBULAR SQUARE UPPER SECTION**: The main vertical support structure.
- ALL HOLES  $\frac{7}{16}$ " SPACED 1" C-C ALL FOUR SIDES**: Specification for the perforations in the steel tubing.
- SIGN**: The top horizontal section of the post.
- SEE SIGN PLATE A4-8 FOR BOLT WASHER, & NUT MATERIAL**: Reference to a separate drawing for hardware.
- $\frac{3}{8}$ " ZINC PLATED CORNER ANCHOR BOLT AND NUT**: Hardware used to secure the post into the base.
- 2 1/2" GRAVEL OR DIRT**: The material filling the base of the post.
- 18" DIA SCHEDULE 40 PVC BOX-OUT**: The outer casing for the base.
- $\frac{3}{16}$ " ZINC PLATED ANCHOR BOLT AND NUT**: Hardware used to secure the base plate.
- 2 1/2" SQUARE X 18" (SOIL STABILIZING SLEEVE)**: The sleeve through which the post passes into the base.
- 2 1/4" SQUARE X 36"**: The main vertical section of the post.
- Dimensions**:
  - Overall height: 36"
  - Section height: 18"
  - Section width: 13"

TECHNICAL DRAWING OF A SIGNPOST ASSEMBLY.

**Side View Dimensions:**

- Overall height: LENGTH SHOWN ON MISC. Q'TYS
- Section A-A: 36" (Total height of the main post section)
- Section B-B: 18" (Height of the upper section)
- Section C-C: 12" (Height of the lower section)

**End View Details:**

- Top Section:** 2" STEEL TUBULAR SQUARE UPPER SECTION. ALL HOLES  $\frac{7}{16}$ " SPACED 1" C-C. ALL FOUR SIDES.
- Sign Mounting:** SIGN (indicated by arrow). SEE SIGN PLATE A4-8 FOR BOLT WASHER, & NUT MATERIAL.
- Anchor Bolts:**  $\frac{3}{8}$ " ZINC PLATED CORNER ANCHOR BOLT AND NUT (indicated by arrow).
- Soil Stabilizing Sleeve:** 2 1/2" SQUARE X 18" (SOIL STABILIZING SLEEVE) (indicated by arrow).
- Post Section:** 2 1/4" SQUARE X 36" (indicated by arrow).
- Telescope Pieces:** TELESCOPE PIECES FLUSH AT TOP (indicated by arrow).

DIRECTION  
OF TRAFFIC

SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

**Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).**

TUBULAR STEEL  
SIGN POST  
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R. Rauch

for State Traffic Engineer

DATE 2/05/15 PLAT 24 14-9.9

PROJECT NO:

HWY:

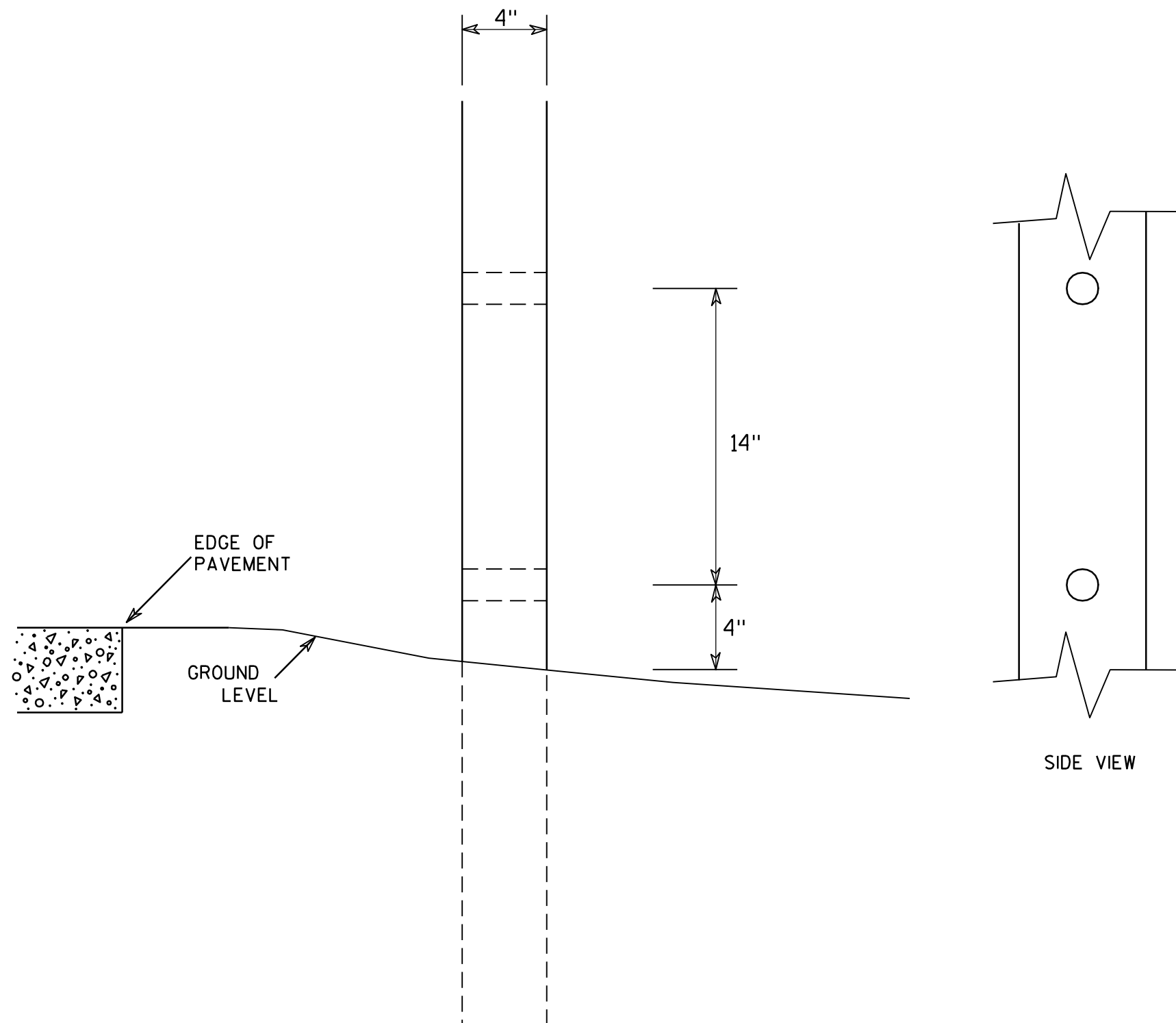
COUNTY:

SHEET NO:

E



7



### GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

### 4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

*Chester J. Spang*  
for State Traffic Engineer

DATE 3/27/97

PLATE NO. A4-11.2

PROJECT NO:

HWY:

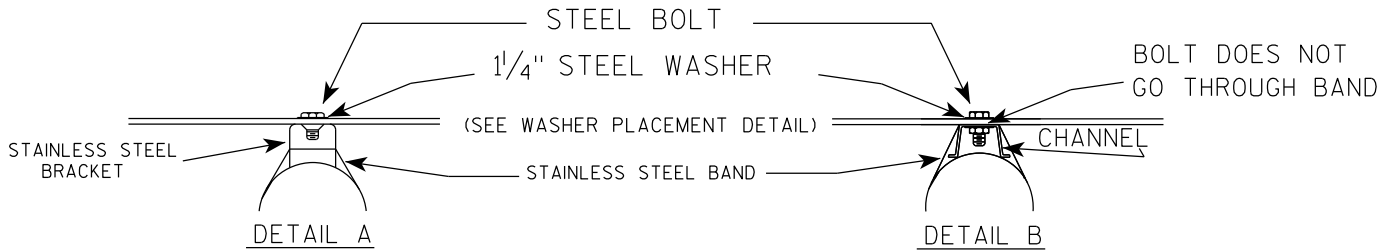
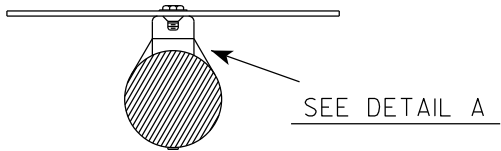
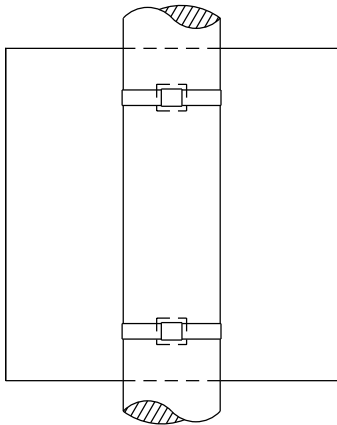
COUNTY:

SHEET NO: 25

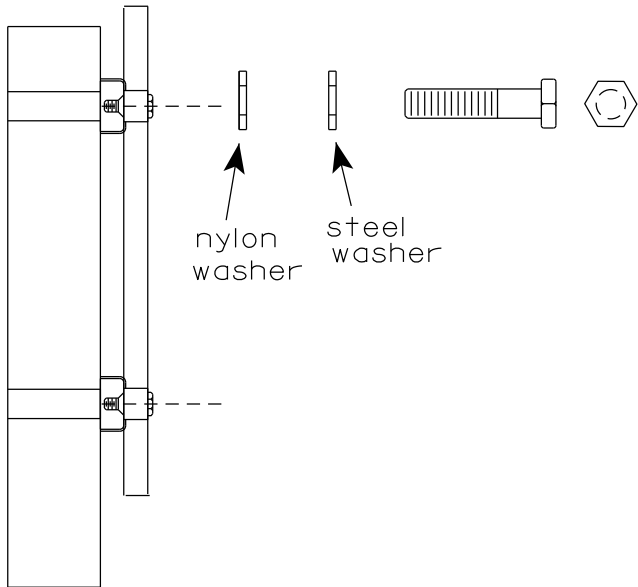
E

BANDING

SINGLE SIGN



WASHER PLACEMENT

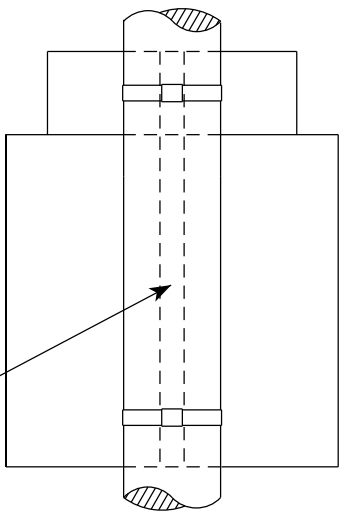


WASHERS (ALL POSTS) -  
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL  
1-1/4" O.D. X 3/8" I.D. X .080 NYLON  
FOR ALL TYPE H SIGNS

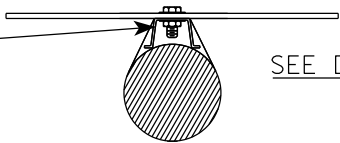
GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 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



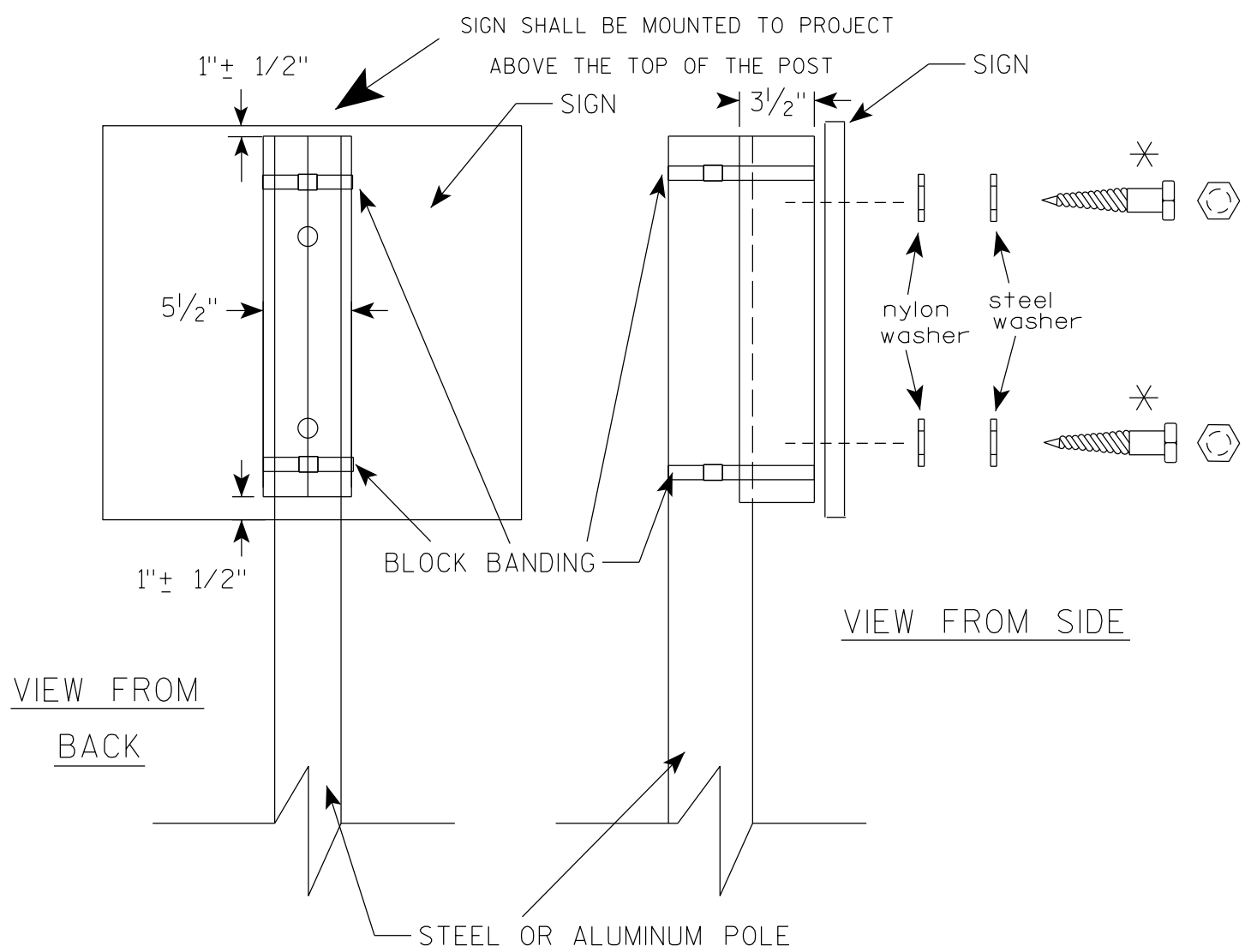
CHANNEL  
SEE TYPICAL PANEL  
INSTALLATION SHEET



STANDARD SIGN  
SIGN BANDING DETAILS

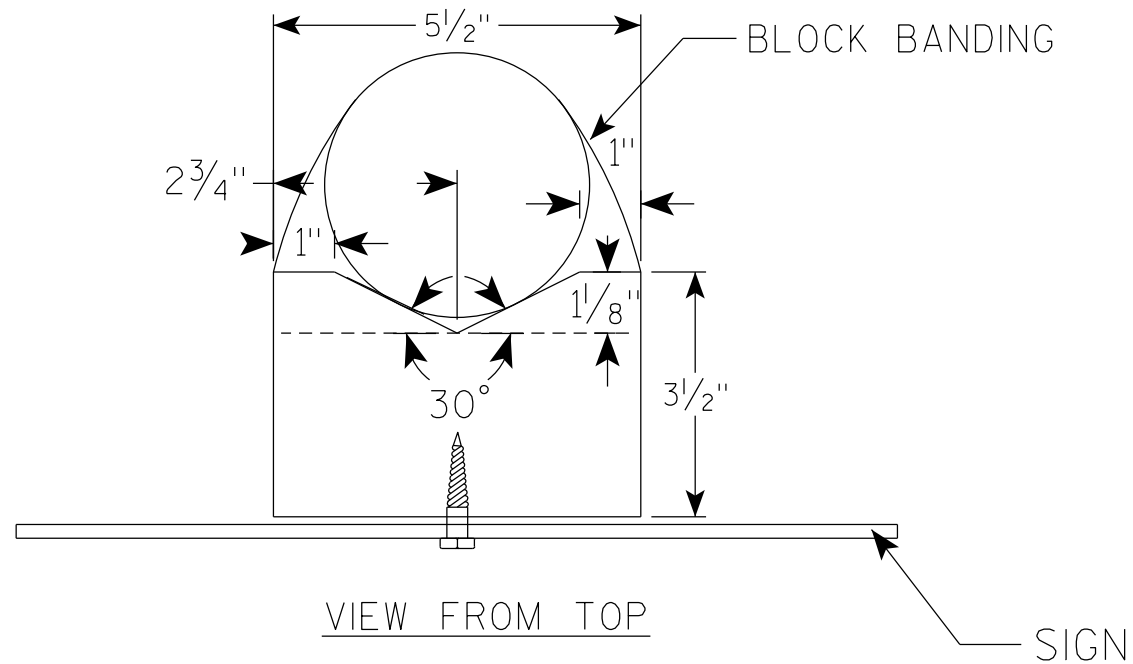
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer  
DATE 6/10/19 PLATE NO. A5-9.4



VIEW FROM  
BACK

VIEW FROM SIDE



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 NORMALLY 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  $\frac{1}{4}$ " O.D. X  $\frac{3}{8}$ " I.D. X  $\frac{1}{16}$ "
8. NYLON WASHERS SHALL BE  $\frac{1}{4}$ " O.D. X  $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✱ LAG BOLTS SHALL BE  $\frac{3}{8}$ " X  $2\frac{1}{2}$ "

BLOCK BANDING DETAIL  
( V-BLOCK OPTION )

WISCONSIN DEPT OF TRANSPORTATION

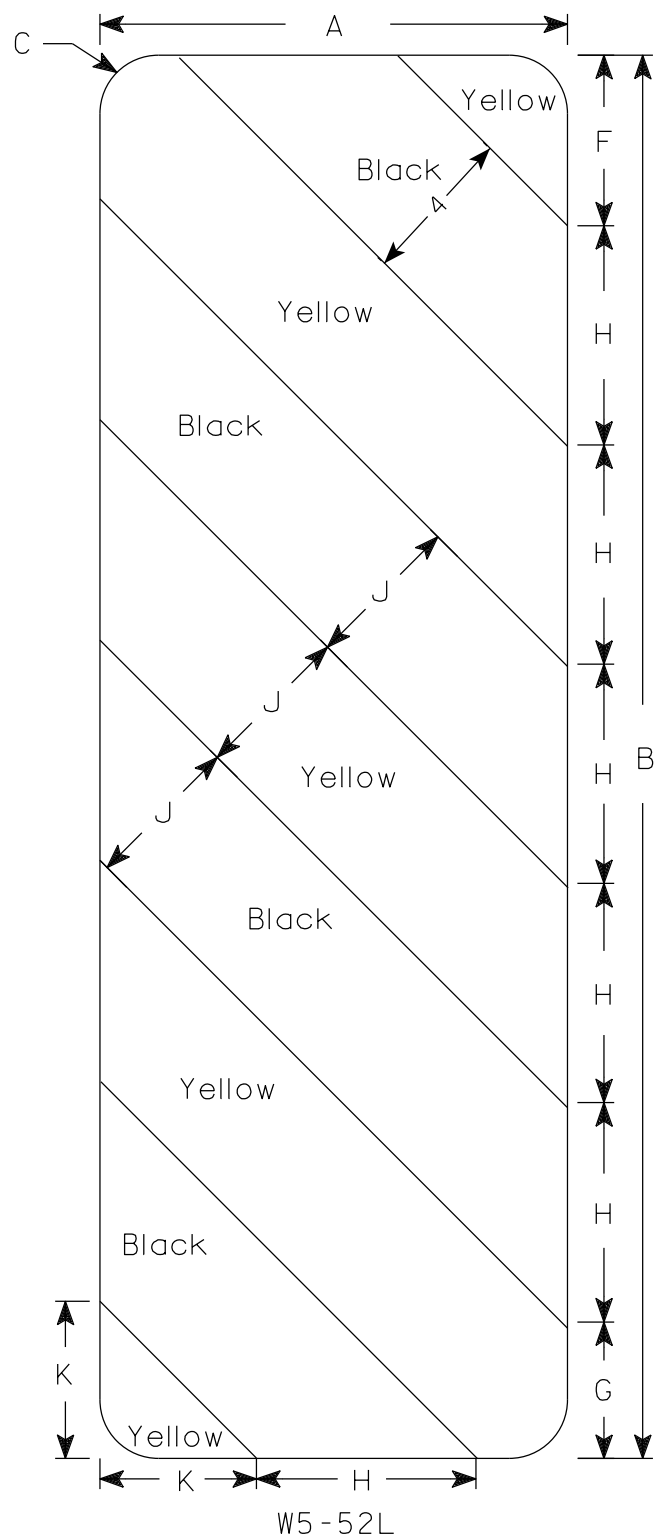
APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

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

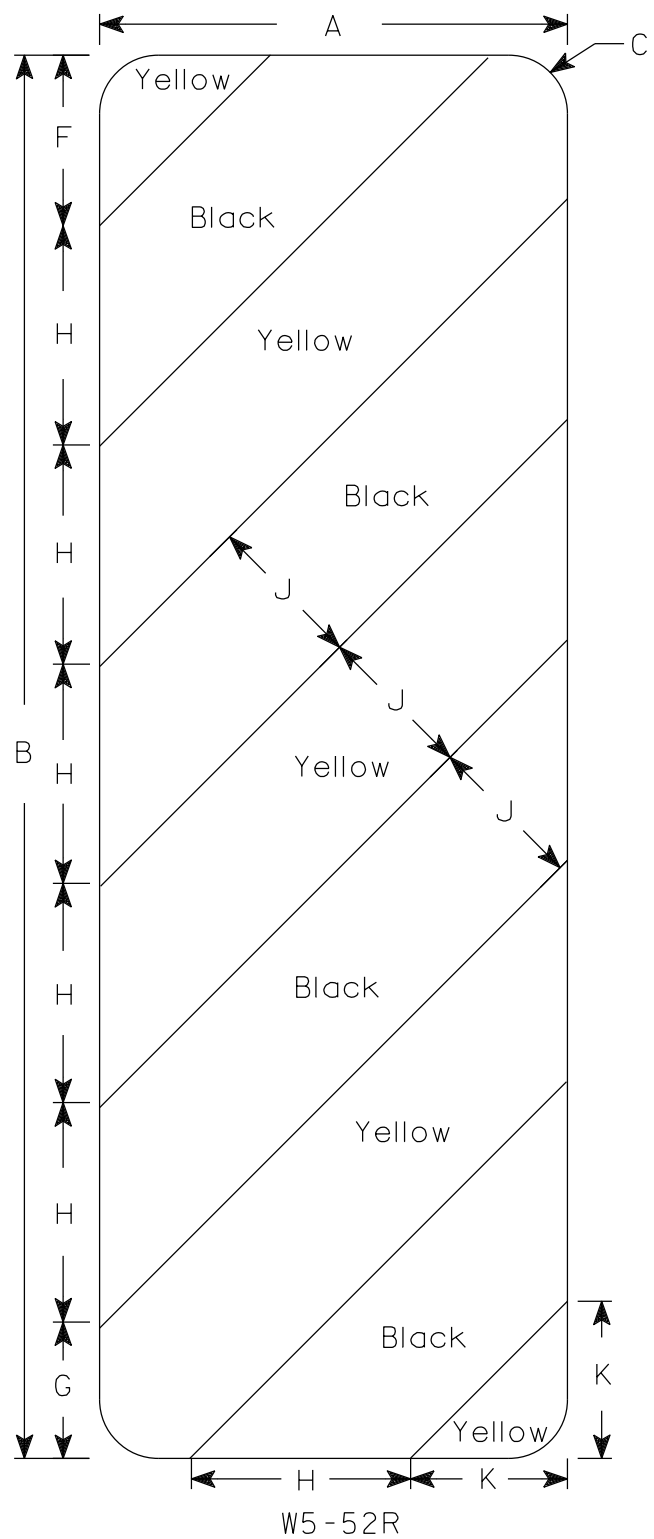
PROJECT NO:

SHEET NO: 27

E



W5-52L



W5-52R

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
  - Background - Yellow
  - Message - Black
- 3. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	v	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36	1 1/2			4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36	1 1/2			4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54	1 1/2			6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

DATE 3/4/2024 PLATE NO. W5-52.10

## DESIGN DATA

## LIVE LOAD:

DESIGN LOADING ————— HL-93  
 INVENTORY RATING FACTOR ————— RF=1.16  
 OPERATING RATING FACTOR ————— RF=1.51  
 WISCONSIN STANDARD PERMIT  
 VEHICLE RATING (WIS.-SPV): — 250 KIPS

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

## MATERIAL PROPERTIES:

CONCRETE MASONRY, SLAB —————  $f'_c$  = 4,000 P.S.I.  
 ALL OTHER —————  $f'_c$  = 3,500 P.S.I.  
 HIGH-STRENGTH BAR STEEL  
 REINFORCEMENT —————  $f_y$  = 60,000 P.S.I.

## FOUNDATION DATA:

ABUTMENTS TO BE SUPPORTED ON HP 10 X 42  
 STEEL PILING SEATED IN PREBORED HOLES CORED  
 3 FEET MINIMUM INTO ROCK. PILE DRIVING IS NOT  
 REQUIRED. THE FACTORED AXIAL RESISTANCE OF  
 PILES IN COMPRESSION USED FOR DESIGN IS 140  
 TONS MULTIPLIED BY A RESISTANCE FACTOR OF  
 0.5. ESTIMATED 10 FT PILE LENGTHS AT W. ABUT.  
 AND 20 FT PILE LENGTHS AT E. ABUT.

## HYDRAULIC DATA:

$Q_{100}$  ————— 1,600 C.F.S.  
 DRAINAGE AREA ————— 6.22 SQ. MI.  
 BRIDGE WATER AREA ————— 225 SQ. FT.  
 BRIDGE VELOCITY ————— 7.11 F.P.S.  
 HIGH WATER  $100$  EL. ————— 1015.30 FT.  
 ROADWAY OVERTOPPING ————— N/A  
 SCOUR CRITICAL CODE — 5  
 $Q_2$  ————— 317 C.F.S.  
 $Q_2$  ELEVATION ————— 1010.21 FT.  
 $Q_2$  VELOCITY ————— 3.36 F.P.S.

## TRAFFIC DATA:

PRAIRIE ROAD  
 A.A.D.T. (2026) ————— 94  
 A.A.D.T. (2046) ————— 99  
 DESIGN SPEED ————— 30 M.P.H.

BRIDGE OFFICE CONTACT  
 AARON BONK, P.E.  
 (608) 261-0261

CONSULTANT CONTACT  
 ANDY KNUTSON, P.E., S.E.  
 (608) 588-7866

NO.	DATE	REVISION	BY

**WESTBROOK**  
 Associated Engineers, Inc.  
 619 EAST HOXIE STREET  
 P.O. BOX 429  
 SPRING GREEN, WI 53588  
 PHONE (608) 588-7866  
 FAX (608) 588-7954

STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION  
 ACCEPTED *[Signature]* JLR 12/02/25  
 CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-62-272

PRAIRIE ROAD OVER RUSH CREEK

COUNTY	TOWN/CITY/VILLAGE
VERNON	STERLING

DESIGN SPEC.	AASHTO LRFD DESIGN SPEC.
DESIGNED BY JDO	DESIGN CK'D. CDS

DRAWN BY JDO	PLANS CK'D. ACK

GENERAL PLAN

SHEET 1 OF 9

29

## NOTES

EXCAVATION AS INDICATED IN THE HATCH  
 AREAS, TO BE INCLUDED IN THE BID ITEM  
 "EXCAVATION FOR STRUCTURES BRIDGES  
 B-62-272".

G01 BACKFILL PAY LIMITS. BACKFILL BEYOND  
 BACKFILL PAY LIMITS SHALL BE INCLUDED  
 WITH BID ITEM "EXCAVATION FOR  
 STRUCTURES BRIDGES B-62-272". LIMITS  
 OF EXCAVATION SHALL BE DETERMINED  
 BY THE CONTRACTOR.

G02 "GEOTEXTILE TYPE DF SCHEDULE A"  
 LIMITS. EXTEND 2'-0" ABOVE BOTTOM OF  
 ABUTMENT FOR THE ENTIRE ABUTMENT  
 BODY LENGTH.

G03 PIPE UNDERDRAIN WRAPPED (6-INCH).  
 SLOPE 0.5% MIN. TO SUITABLE DRAINAGE.  
 ATTACH RODENT SHIELD AT ENDS OF PIPE  
 UNDERDRAIN AS DETAILED IN "WINGS 1 &  
 3 DETAILS" SHEET.

G04 NAME PLATE REQUIRED NEAR WING 1. FOR  
 LOCATION SEE "PARAPET &  
 SUPERSTRUCTURE REINFORCEMENT" SHEET.

G05 BENCHMARK CAP (WHEN SUPPLIED) NEAR  
 WING 1. FOR LOCATION SEE "ABUTMENTS"  
 SHEET.

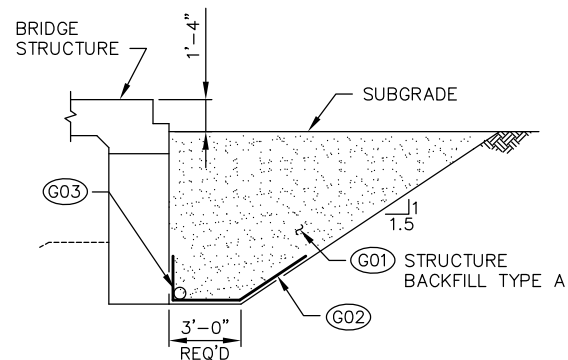
G06 REMOVE ALL PORTIONS OF EXISTING  
 STRUCTURE IN CONFLICT WITH NEW  
 ABUTMENT CONCRETE AND PILES. TYPICAL  
 NEAR ALL 4 WING LOCATIONS. ALL  
 REMOVAL TO BE INCLUDED WITH BID ITEM  
 "REMOVING STRUCTURE OVER WATERWAY  
 REMOVE DEBRIS P-62-329."

G07 THE WATERWAY AT THIS LOCATION HAS A  
 LIMITED AMOUNT OF BASE FLOW AND  
 FLOWS PRIMARILY WITH RAIN EVENTS.

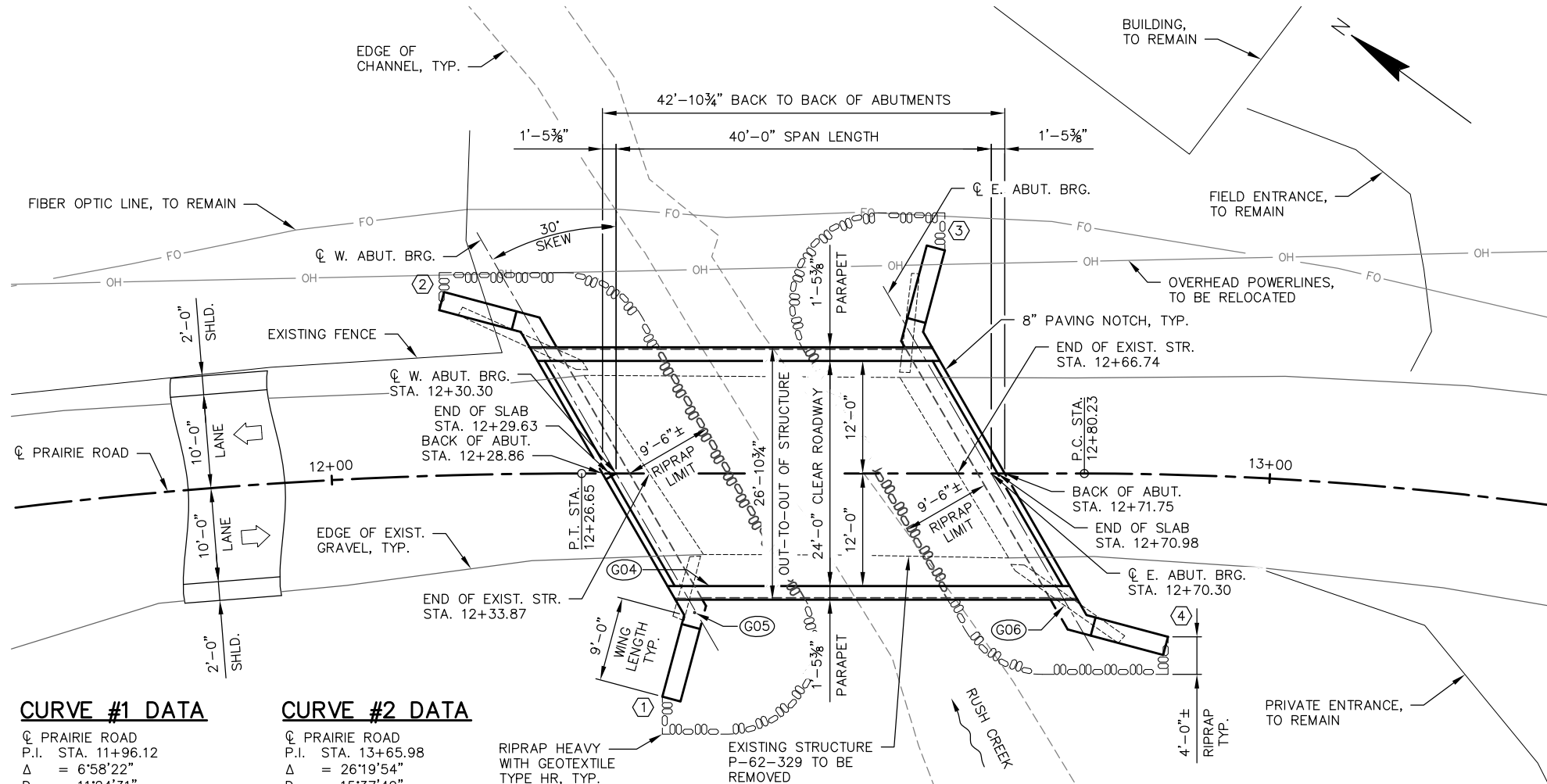
INDICATES WING NUMBER

## LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION, GENERAL  
 NOTES & QUANTITIES
3. SUBSURFACE EXPLORATION
4. ABUTMENTS
5. WINGS 1 & 3 DETAILS
6. WINGS 2 & 4 DETAILS &  
 ABUT. REINFORCEMENT
7. SUPERSTRUCTURE
8. SUPERSTRUCTURE DETAILS
9. PARAPET & SUPERSTRUCTURE  
 REINFORCEMENT

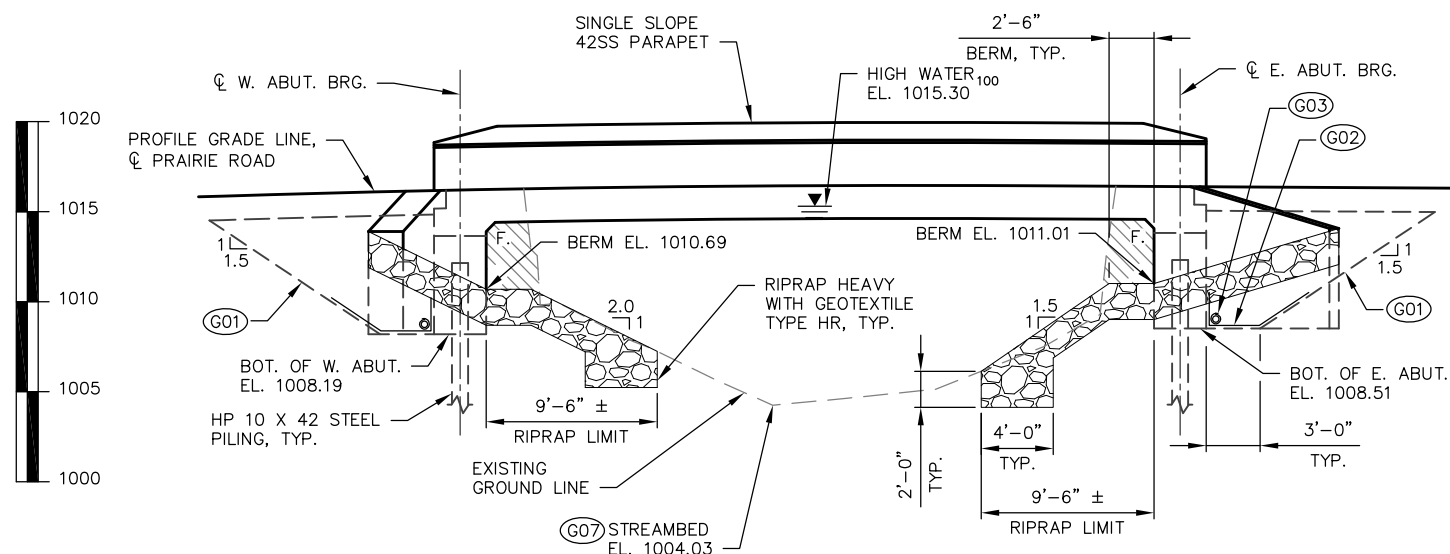


ABUTMENT BACKFILL DETAIL  
 (TYPICAL AT BOTH ABUTMENTS)



## PLAN B-62-272

(SINGLE SPAN CONCRETE FLAT SLAB BRIDGE)



## ELEVATION

(NORMAL TO RUSH CREEK, LOOKING NORTH)

## CURVE #1 DATA

☐ PRAIRIE ROAD  
 P.I. STA. 11+96.12  
 $\Delta$  = 6°58'22"  
 D. = 11°24'31"  
 T. = 61.12'  
 R. = 502.21'  
 L. = 61.12'  
 P.C. STA. 11+65.53  
 P.T. STA. 12+26.65

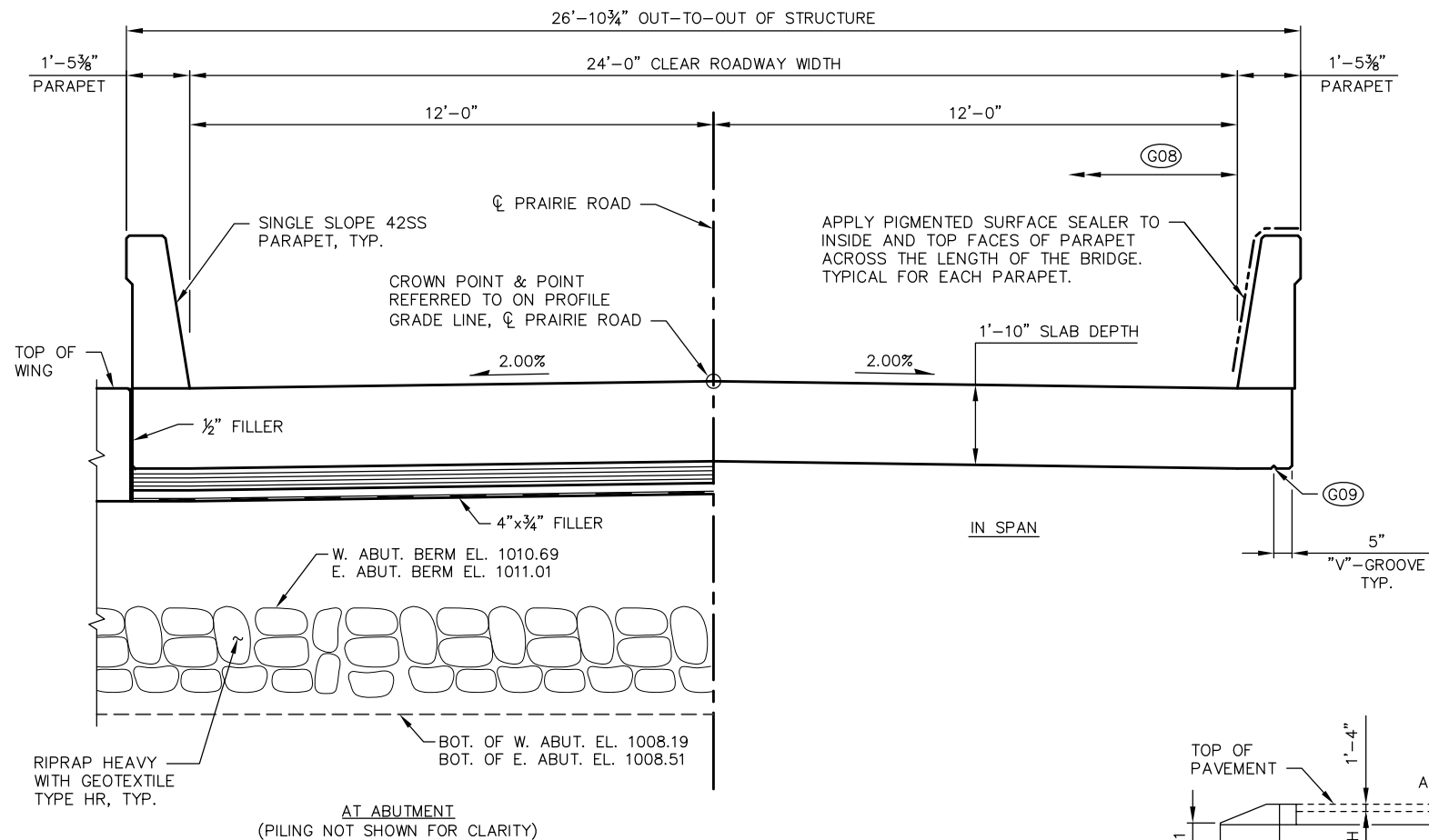
## CURVE #2 DATA

☐ PRAIRIE ROAD  
 P.I. STA. 13+65.98  
 $\Delta$  = 26°19'54"  
 D. = 15°37'49"  
 T. = 85.75'  
 R. = 366.57'  
 L. = 168.46'  
 P.C. STA. 12+80.23  
 P.T. STA. 14+48.70

## BENCH MARKS

NO.	STATION/OFFSET	DESCRIPTION	ELEVATION
BM #1	10+58.45, 32.13' LT.	RAILROAD SPIKE, POWER POLE	1008.62
BM #2	13+57.47, 33.10' LT.	RAILROAD SPIKE, POWER POLE	1017.08

HORIZONTAL DATUM AND ADJUSTMENT: NAD 83 (2011)  
 VERTICAL DATUM AND ADJUSTMENT: NAVD 88 (2012)  
 COORDINATE REFERENCE SYSTEM: WISCRS, VERNON CO.



**CROSS SECTION THRU ROADWAY**  
(LOOKING EAST)

## NOTES

G08 COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD SPECIFICATIONS. PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE TOP SURFACE OF SLAB BETWEEN THE PARAPETS. ALSO APPLY PROTECTIVE SURFACE TREATMENT TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES.

G09 3/4" V-GROOVE REQ'D. EXTEND V-GROOVE TO 6" FROM FRONT FACE OF ABUTMENT.

## TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	W. ABUT.	E. ABUT.	SUPER.	TOTALS
203.0250	REMOVING STRUCTURE OVER WATERWAY REMOVE DEBRIS P-62-329	EACH	----	----	----	1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-62-272	EACH	----	----	----	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	150	150	----	300
502.0100	CONCRETE MASONRY BRIDGES	CY	28.4	28.1	92.4	149
502.3200	PROTECTIVE SURFACE TREATMENT	SY	----	----	121	121
502.3210	PIGMENTED SURFACE SEALER	SY	----	----	42	42
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2360	2240	----	4600
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1435	1435	19370	22240
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	6	6	----	12
550.0020	PRE-BORING ROCK OR CONSOLIDATED MATERIALS	LF	42	105	----	147
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	70	140	----	210
606.0300	RIPRAP HEAVY	CY	60	70	----	130
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	80	80	----	160
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	34	34	----	68
645.0120	GEOTEXTILE TYPE HR	SY	100	100	----	200
(NON-BID ITEM)	FILLER	SIZE				1/2" & 3/4"

## GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR 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 THE ABUTMENT SHEETS.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WING FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCLUDED WITH "EXCAVATION FOR STRUCTURES BRIDGES B-62-272".

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-62-272" SHALL BE THE EXISTING GROUND LINE.

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

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

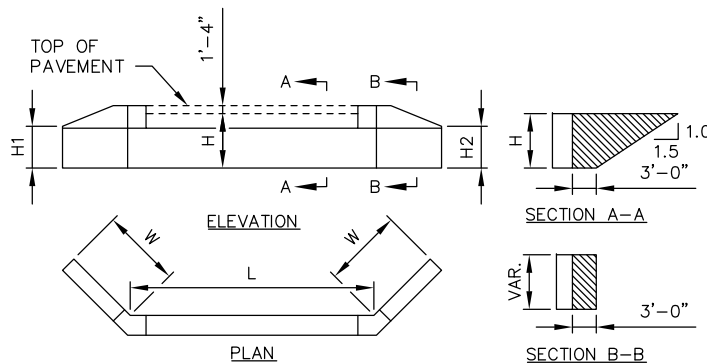
AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A.

DO NOT PLACE FILL ABOVE 3'-0" FROM BOTTOM OF ABUTMENT UNTIL SUPERSTRUCTURE IS IN PLACE.

SHALLOW BEDROCK (LESS THAN 10'-FT BELOW ABUTMENT) WAS ENCOUNTERED IN THE BORING FOR THE WEST AND EAST ABUTMENT. A MINIMUM OF 3'-FEET OF PRE-BORE AT THE ABUTMENT INTO SUITABLE BEDROCK IS REQUIRED IF THE MINIMUM OF 10'-FEET OF PILE PENETRATION INTO NATURAL GROUND CANNOT BE ACHIEVED. THE CONTRACTOR AND THE CONSTRUCTION ENGINEER SHOULD ANTICIPATE VARIABLE PILE PENETRATION.

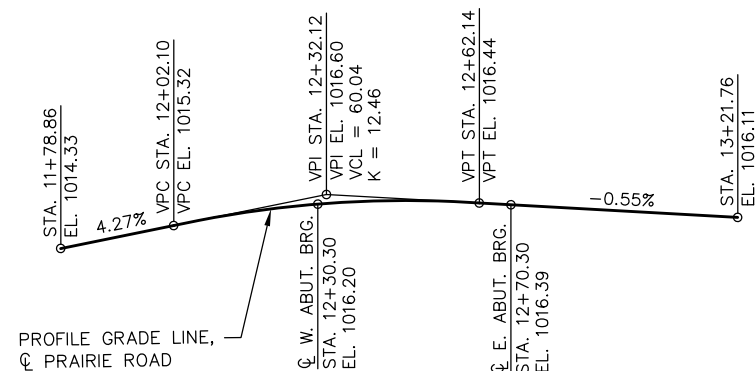
PILES PLACED IN PREBORED HOLES CORED INTO ROCK DO NOT REQUIRE DRIVING. PILES SHALL BE "FIRMLY SEATED" ON ROCK AFTER PLACEMENT IN PREBORED HOLES.

THE EXISTING STRUCTURE (P-62-329) IS A SINGLE SPAN STEEL GIRDER CONCRETE DECK BRIDGE WITH AN OVERALL LENGTH OF 35'-FT AND A DECK WIDTH OF 20'-FT AND IS TO BE REMOVED PER BID ITEM "REMOVING STRUCTURE OVER WATERWAY REMOVE DEBRIS P-62-329".

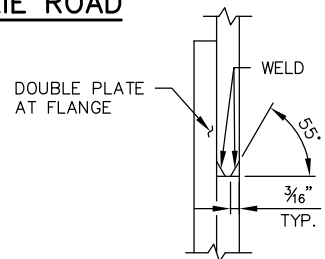


## ABUTMENT BACKFILL DIAGRAM

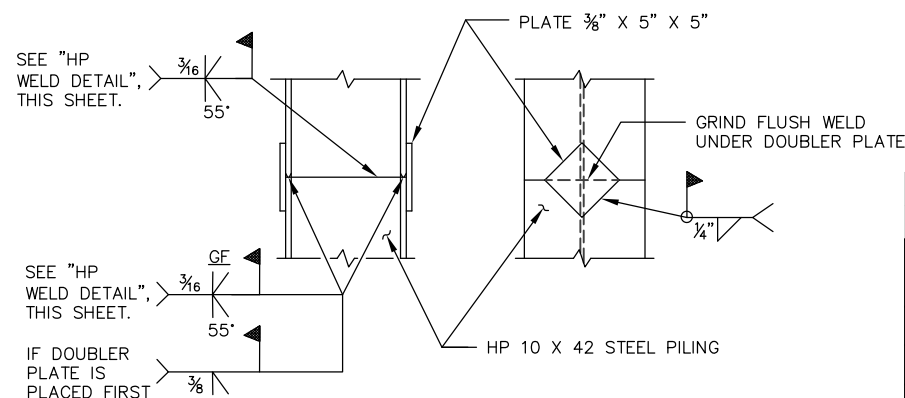
L = ABUTMENT BODY LENGTH AT BACKFACE (FT)  
H = AVERAGE ABUTMENT FILL HEIGHT (FT)  
H1 = WING 1 HEIGHT AT TIP (FT)  
H2 = WING 2 HEIGHT AT TIP (FT)  
W = WING LENGTH (FT)  
EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)  
 $V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H) + (3')(0.5)(H1+H2+H+H)(W)$   
 $V_{CY} = V_{CF}(EF)/27$   
 $V_{TON} = V_{CY}(2.0)$



## PROFILE GRADE LINE, CL PRAIRIE ROAD



## HP WELD DETAIL (FLANGE SHOWN, WEB SIMILAR)



## PILE SPLICE DETAILS

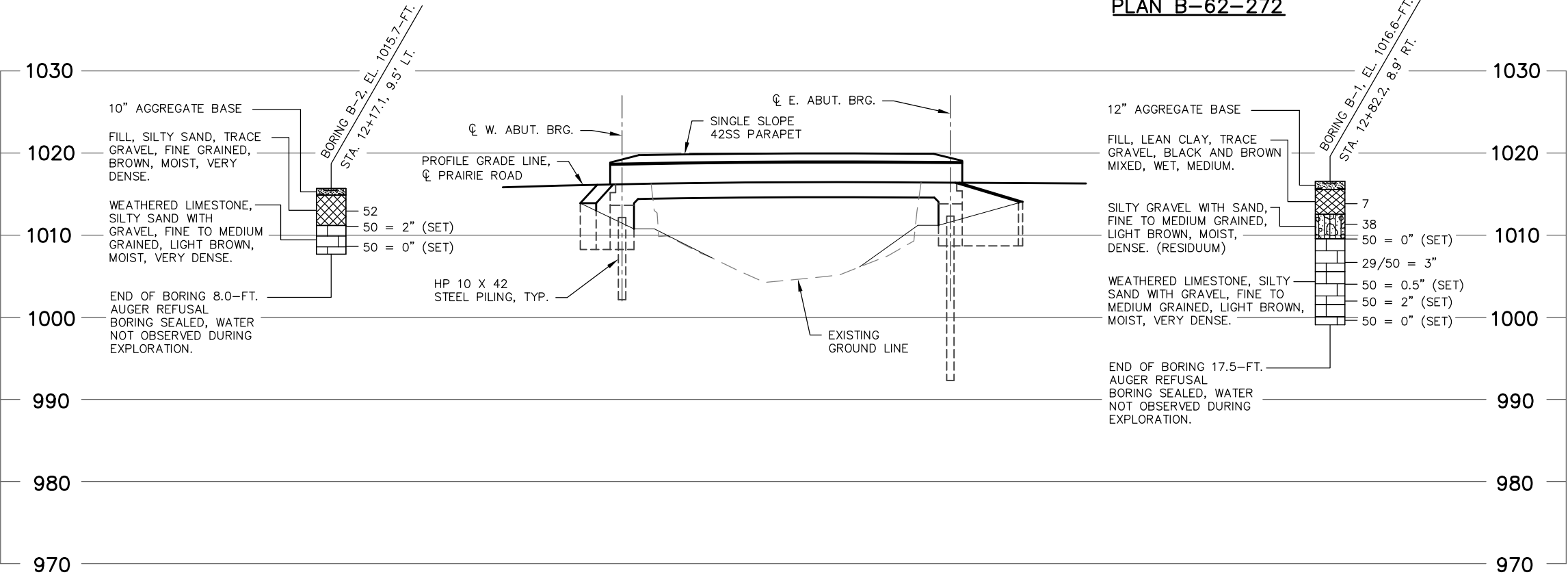
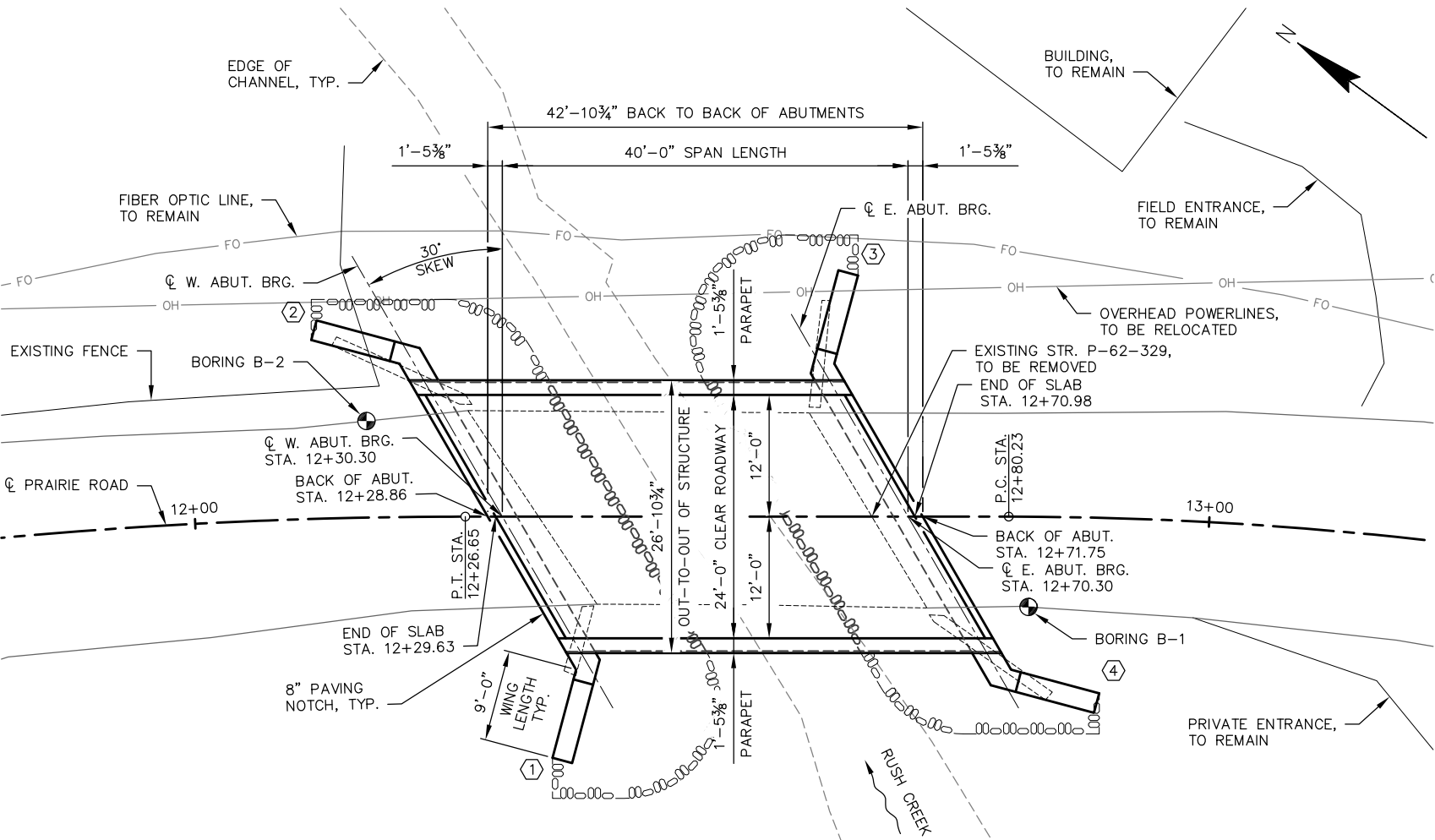
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-62-272			
DRAWN BY JDO		PLANS CK'D	ACK
CROSS SECTION, GENERAL NOTES & QUANTITIES			SHEET 2 OF 9
			30

B-62-272 BORINGS

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
BORING B-1	12/28/2022	106733.6	672999.3
BORING B-2	12/28/2022	106797.0	672975.4
BORINGS COMPLETED BY: CHOSEN VALLEY TESTING, INC.			
SUBSURFACE INVESTIGATION REPORT: CHOSEN VALLEY TESTING, INC.			
ALL COORDINATES REFERENCED TO WISCRS, VERNON COUNTY			

NOTE

⬡ INDICATES WING NUMBER



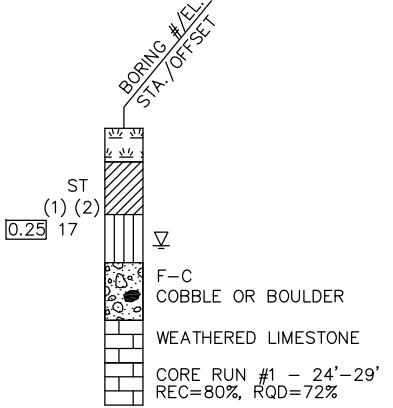
STATE PROJECT NUMBER

5405-00-70

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/META

LEGEND OF BORING



- (1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)
- (2) UNLESS OTHERWISE SPECIFIED, THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▽ AFTER DRILLING

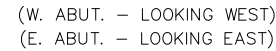
ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

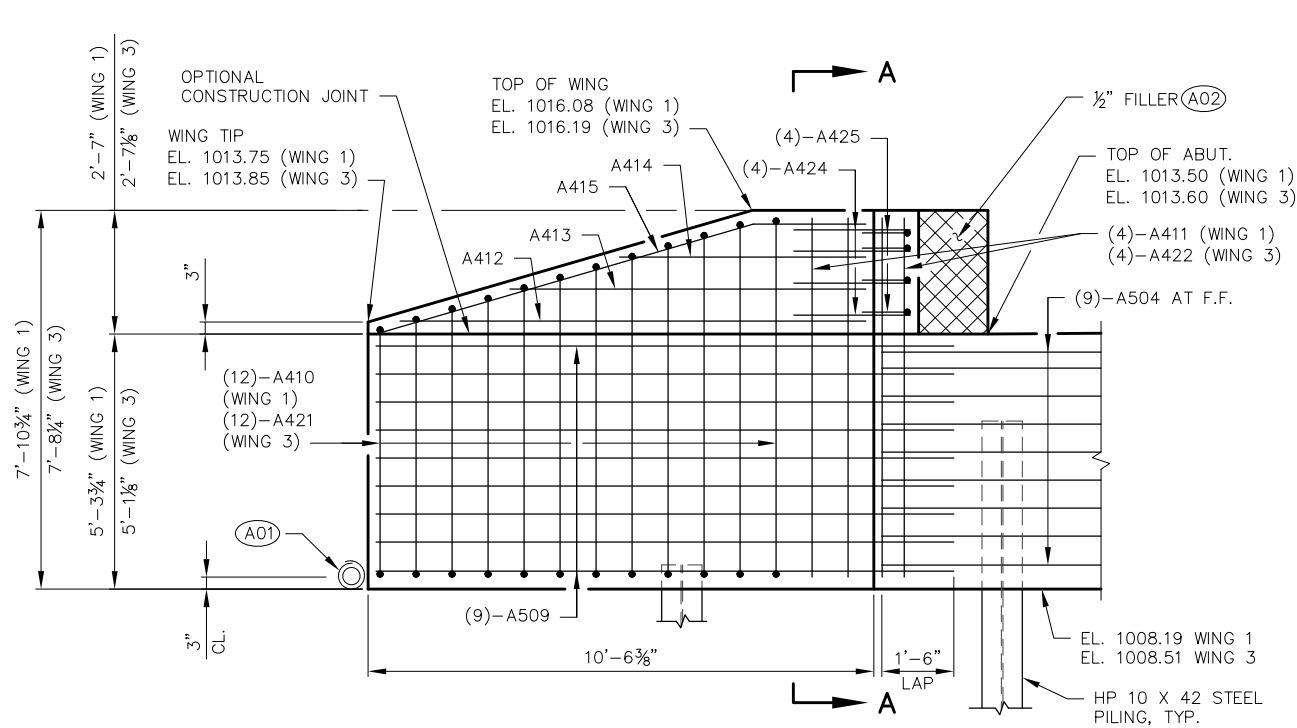
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-62-272			
DRAWN BY JDO		PLANS CK'D	ACK
SUBSURFACE EXPLORATION		SHEET 3 OF 9	
		31	



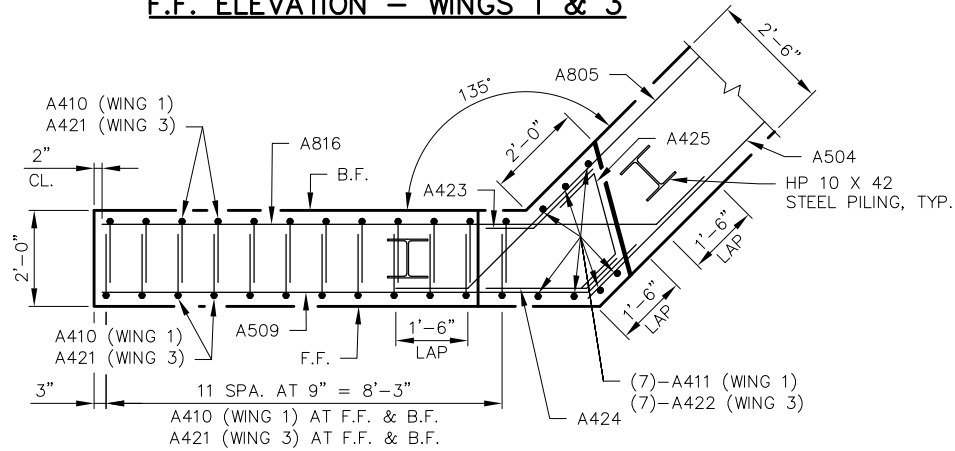
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
<b>STRUCTURE B-62-272</b>			
DRAWN BY JDO		PLANS CK'D ACK	
<b>ABUTMENTS</b>		SHEET 4 OF 9	
		32	

- 
- INDICATES WING NUMBER

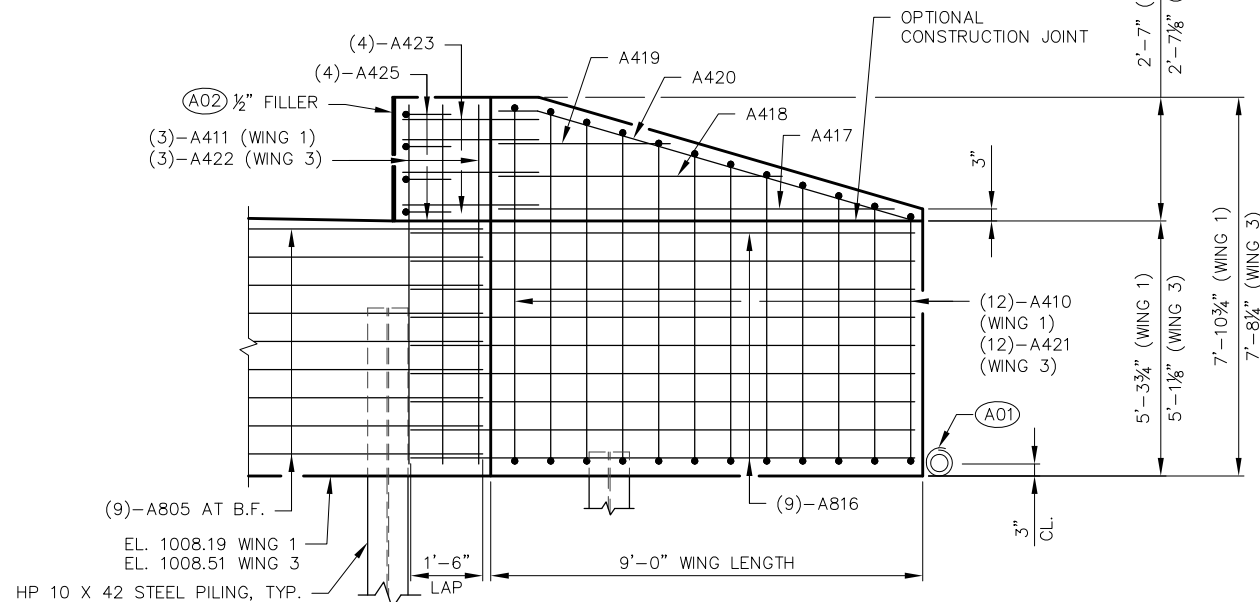




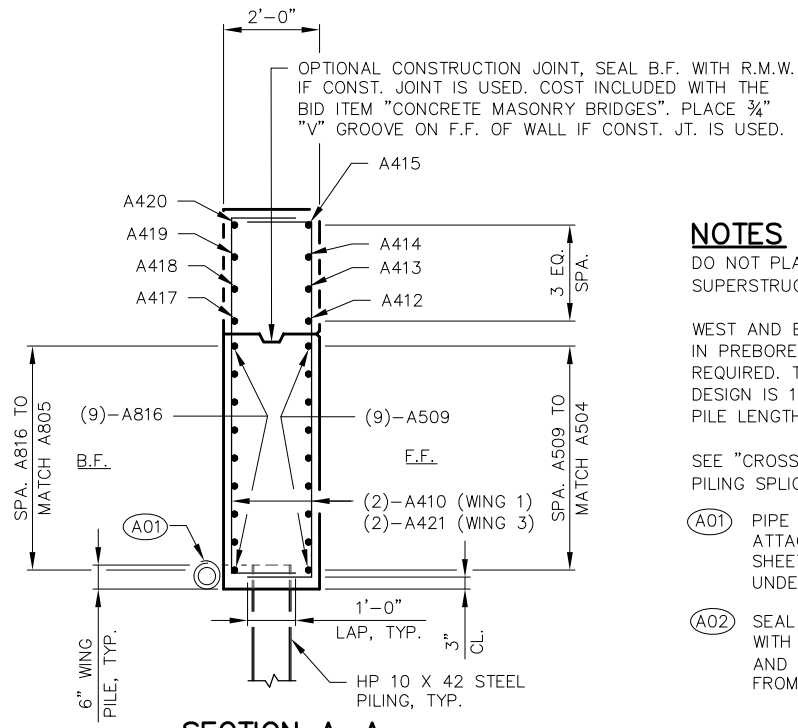
F.F. ELEVATION - WINGS 1 & 3



PLAN - WINGS 1 & 3



B.F. ELEVATION - WINGS 1 & 3



SECTION A-A

NOTES

DO NOT PLACE FILL ABOVE 3'-0" FROM THE BOTTOM OF THE ABUTMENT UNTIL SUPERSTRUCTURE IS IN PLACE.

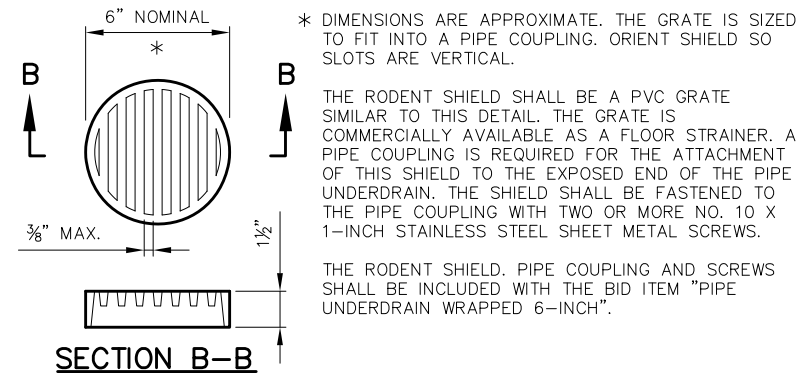
WEST AND EAST ABUTMENTS TO BE SUPPORTED ON HP 10 X 42 STEEL PILING SEATED IN PREBORED HOLES CORED 3 FEET MINIMUM INTO ROCK. PILE DRIVING IS NOT REQUIRED. THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS 140 TONS MULTIPLIED BY A RESISTANCE FACTOR OF 0.5. ESTIMATED 10 FT PILE LENGTHS AT WEST ABUTMENT AND 20 FT PILE LENGTHS AT EAST ABUTMENT.

SEE "CROSS SECTION, GENERAL NOTES & QUANTITIES" SHEET FOR HP 10 X 42 STEEL PILING SPLICE DETAILS.

(A01) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON THIS SHEET. RODENT SHIELD SHALL BE INCLUDED WITH THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

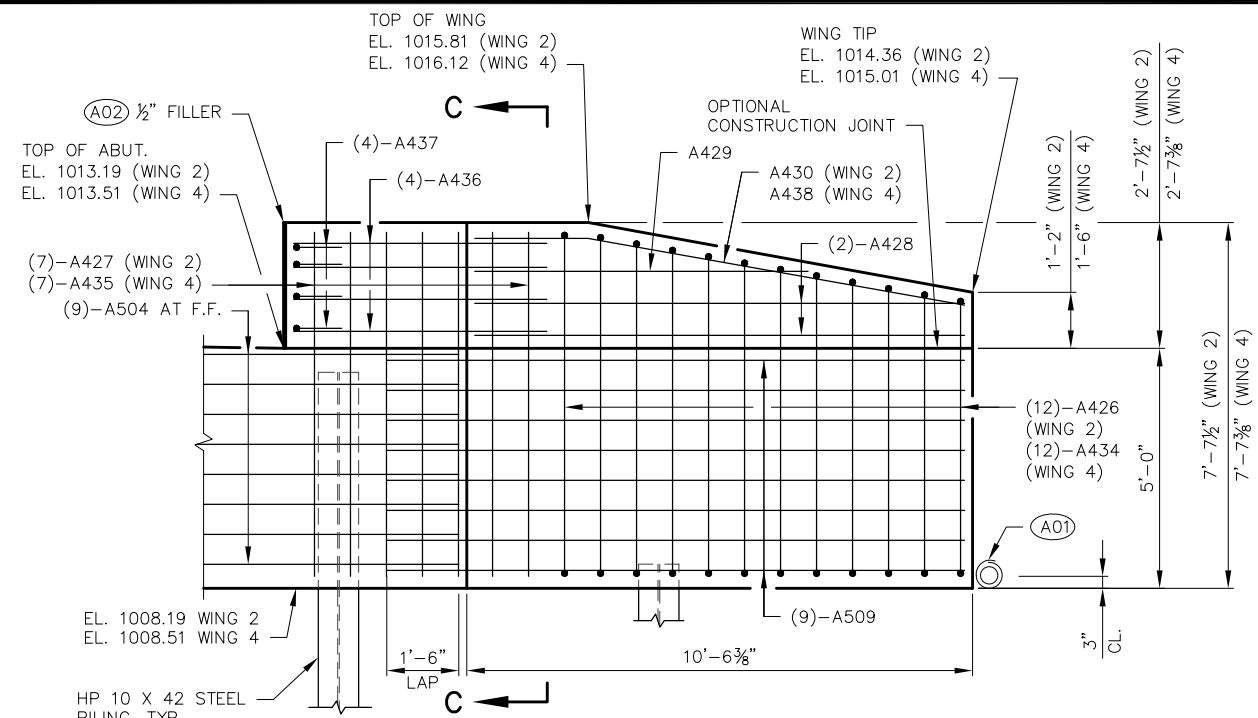
(A02) SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.) 1/2" FILLER TO EXTEND FROM BRIDGE SEAT TO TOP OF WING.

F.F. - FRONT FACE  
B.F. - BACK FACE

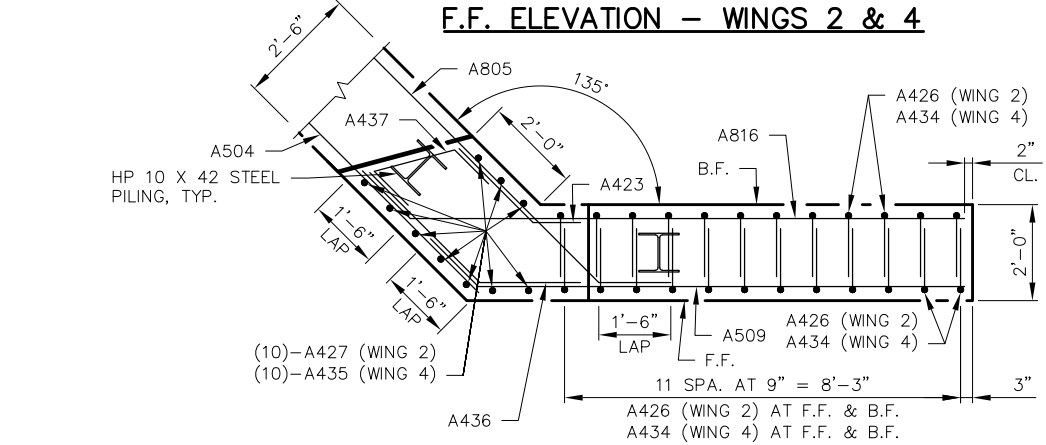


RODENT SHIELD DETAIL

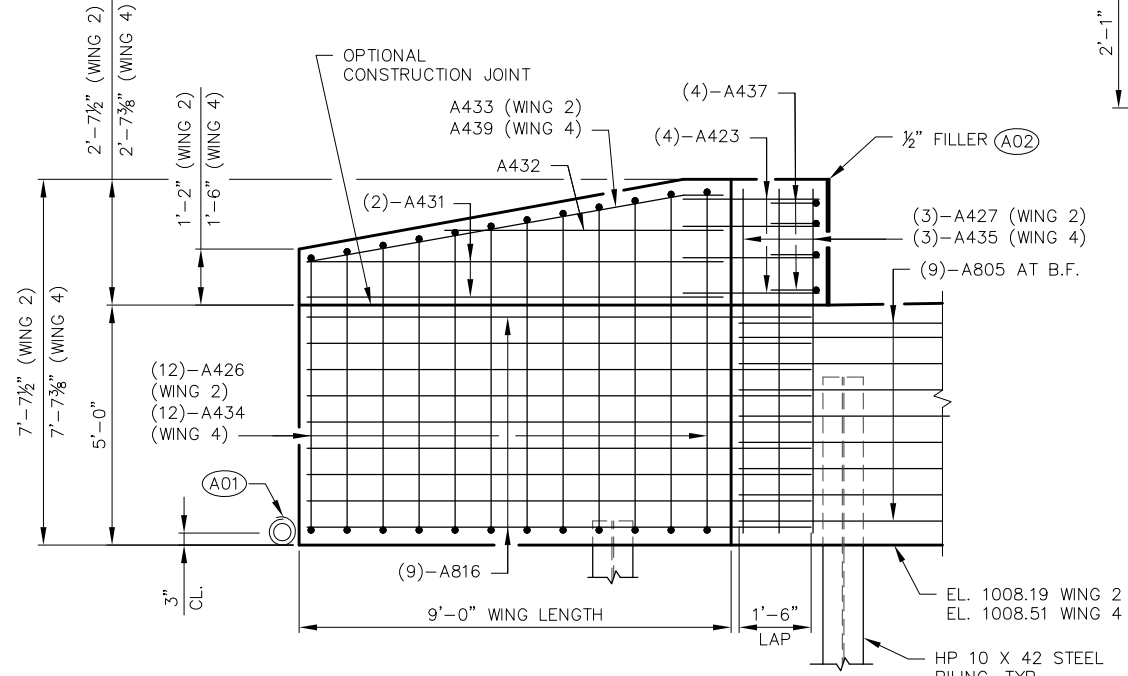
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STRUCTURE B-62-272			
DRAWN BY JDO		PLANS CK'D	ACK
WINGS 1 & 3 DETAILS			SHEET 5 OF 9
			33



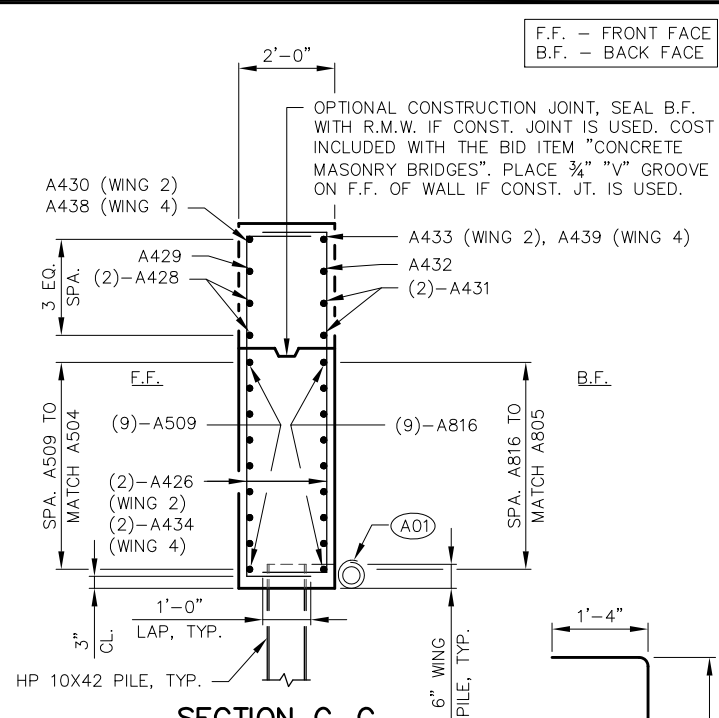
F.F. ELEVATION - WINGS 2 & 4



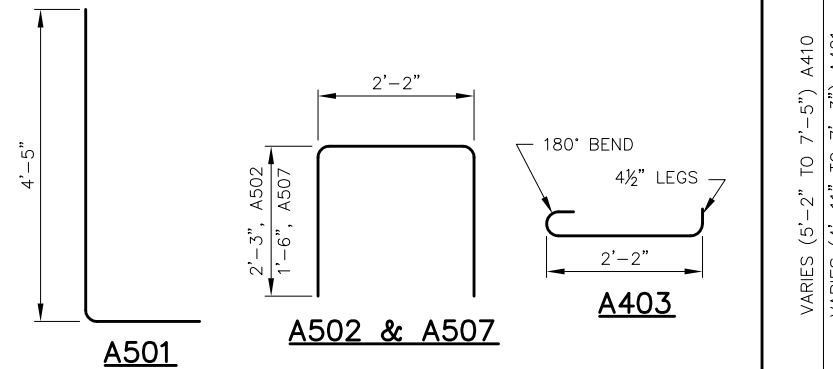
PLAN - WINGS 2 & 4



B.F. ELEVATION - WINGS 2 & 4



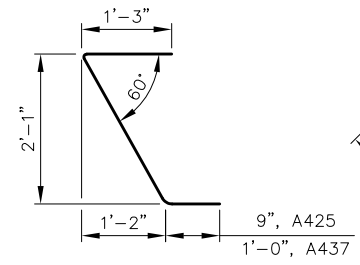
SECTION C-C



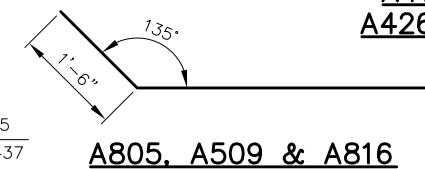
A501

A502 & A507

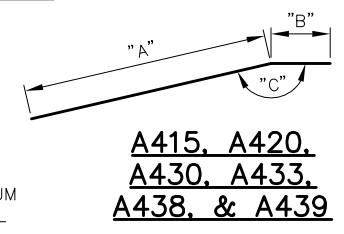
A403



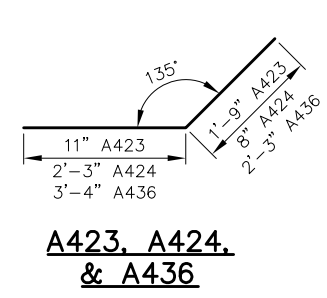
A425 & A437



A805, A509 & A816



A415, A420, A430, A433, A438, & A439



A423, A424, & A436

NOTES

DO NOT PLACE FILL ABOVE 3'-0" FROM THE BOTTOM OF THE ABUTMENT UNTIL SUPERSTRUCTURE IS IN PLACE.

WEST AND EAST ABUTMENTS TO BE SUPPORTED ON HP 10 X 42 STEEL PILING SEATED IN PREBORED HOLES CORED 3 FEET MINIMUM INTO ROCK. PILE DRIVING IS NOT REQUIRED. THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS 140 TONS MULTIPLIED BY A RESISTANCE FACTOR OF 0.5. ESTIMATED 10 FT PILE LENGTHS AT WEST ABUTMENT AND 20 FT PILE LENGTHS AT EAST ABUTMENT.

SEE "CROSS SECTION, GENERAL NOTES & QUANTITIES" SHEET FOR HP 10 X 42 STEEL PILING SPLICE DETAILS.

(A01) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON "WINGS 1 & 3 DETAILS" SHEET. RODENT SHIELD SHALL BE INCLUDED WITH THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

(A02) SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.) 1/2" FILLER TO EXTEND FROM BRIDGE SEAT TO TOP OF WING.

BILL OF BARS  
BOTH ABUTMENTS

COATED = 2,870 LBS.  
UNCOATED = 4,600 LBS.

MARK	COATED	NUMBER		LENGTH	BENT	BAR SERIES	LOCATION
		W. ABUT.	E. ABUT.				
A501		72	72	5'-11"	X		BODY - STIRRUP - F.F. & B.F. VERT.
A502		36	36	6'-5"	X		BODY - STIRRUP - TOP VERT.
A403		27	27	3'-1"	X		BODY - TIES HORIZ.
A504		18	18	18'-11"			BODY - F.F. HORIZ.
A805		18	18	23'-10"	X		BODY - B.F. HORIZ.
A406		3	--	16'-6"			BODY - TOP - ADDITIONAL REINF. HORIZ.
A507		17	--	4'-11"	X		BODY - STIRRUP - TOP - ADD. REINF. VERT.
A508	X	30	30	2'-0"			BODY - TOP DOWELS VERT.
A509	X	18	18	11'-9"	X		WINGS 1 THRU 4 - F.F. HORIZ.
A410	X	24	--	8'-10"	X	▲	WING 1 - STIRRUP - F.F. & B.F. VERT.
A411	X	7	--	7'-5"			WING 1 - F.F. & B.F. VERT.
A412	X	1	1	9'-8"			WINGS 1 & 3 - F.F. HORIZ.
A413	X	1	1	7'-5"			WINGS 1 & 3 - F.F. HORIZ.
A414	X	1	1	5'-1"			WINGS 1 & 3 - F.F. HORIZ.
A415	X	1	1	10'-6"	X		WINGS 1 & 3 - F.F. - TOP HORIZ.
A816	X	18	18	13'-3"	X		WINGS 1 THRU 4 - B.F. HORIZ.
A417	X	1	1	8'-2"			WINGS 1 & 3 - B.F. HORIZ.
A418	X	1	1	5'-10"			WINGS 1 & 3 - B.F. HORIZ.
A419	X	1	1	3'-6"			WINGS 1 & 3 - B.F. HORIZ.
A420	X	1	1	8'-11"	X		WINGS 1 & 3 - B.F. - TOP HORIZ.
A421	X	--	24	8'-7"	X	▲	WING 3 - F.F. & B.F. VERT.
A422	X	--	7	7'-3"			WING 3 - F.F. & B.F. VERT.
A423	X	8	8	2'-8"	X		WINGS 1 THRU 4 - B.F. CORNER HORIZ.
A424	X	4	4	2'-11"	X		WINGS 1 & 3 - F.F. CORNER HORIZ.
A425	X	4	4	4'-2"	X		WINGS 1 & 3 - TOP CORNER HORIZ.
A426	X	24	--	9'-0"	X	▲	WING 2 - STIRRUP - F.F. & B.F. VERT.
A427	X	10	--	7'-2"			WING 2 - F.F. & B.F. VERT.
A428	X	2	2	10'-2"			WINGS 2 & 4 - F.F. HORIZ.
A429	X	1	1	6'-11"			WINGS 2 & 4 - F.F. HORIZ.
A430	X	1	--	10'-3"	X		WING 2 - F.F. - TOP HORIZ.
A431	X	2	2	8'-8"			WINGS 2 & 4 - B.F. HORIZ.
A432	X	1	1	5'-5"			WINGS 2 & 4 - B.F. HORIZ.
A433	X	1	--	8'-8"	X		WING 2 - B.F. - TOP HORIZ.
A434	X	--	24	9'-2"	X	▲	WING 4 - STIRRUP - F.F. & B.F. VERT.
A435	X	--	10	7'-2"			WING 4 - F.F. & B.F. VERT.
A436	X	4	4	5'-7"	X		WINGS 2 & 4 - F.F. CORNER HORIZ.
A437	X	4	4	4'-5"	X		WINGS 2 & 4 - TOP CORNER HORIZ.
A438	X	--	1	10'-3"	X		WING 4 - F.F. - TOP HORIZ.
A439	X	--	1	8'-8"	X		WING 4 - B.F. - TOP HORIZ.

THE FIRST DIGIT OF A BAR MARK SIGNIFIES THE BAR SIZE.

ALL BAR BEND DIMENSIONS ARE OUT TO OUT OF BAR.

BUNDLE EACH ABUTMENT BARS SEPARATELY.

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

BAR SERIES TABLE

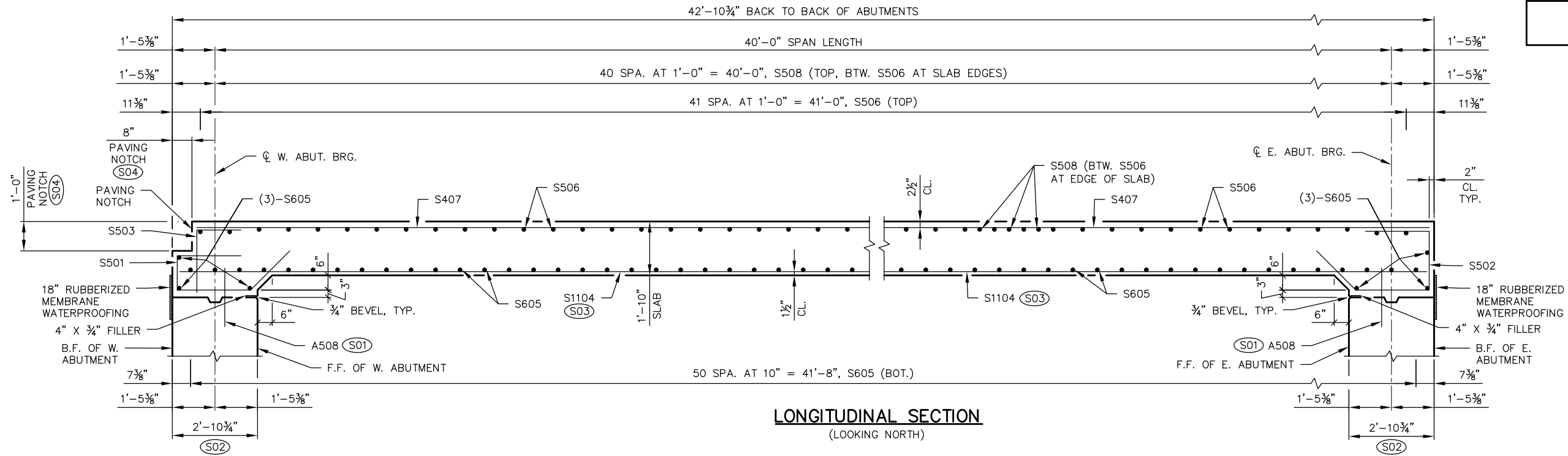
MARK	NO. REQ'D	LENGTH
A410	2 SERIES OF 12	7'-8" TO 9'-11"
A421	2 SERIES OF 12	7'-5" TO 9'-9"
A426	2 SERIES OF 12	8'-3" TO 9'-8"
A434	2 SERIES OF 12	8'-7" TO 9'-8"

BUNDLE AND TAG EACH SERIES SEPARATELY.

BAR BEND DIMENSIONS

MARK	"A"	"B"	"C"
A415	8'-2"	2'-4"	163"
A420	8'-2"	0'-9"	163"
A430	7'-11"	2'-4"	170"
A433	7'-11"	0'-9"	170"
A438	7'-11"	2'-4"	172"
A439	7'-11"	0'-9"	172"

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-62-272			
DRAWN BY JDO		PLANS CK'D	ACK
WINGS 2 & 4 DETAILS & ABUT. REINFORCEMENT			SHEET 6 OF 9
			34



NOTES

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

BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

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

PARAPETS TO BE CAST ON THE SLAB AFTER FALSEWORK HAS BEEN RELEASED.

(S01) SEE "ABUTMENTS" SHEET FOR PLACEMENT OF A508 BARS

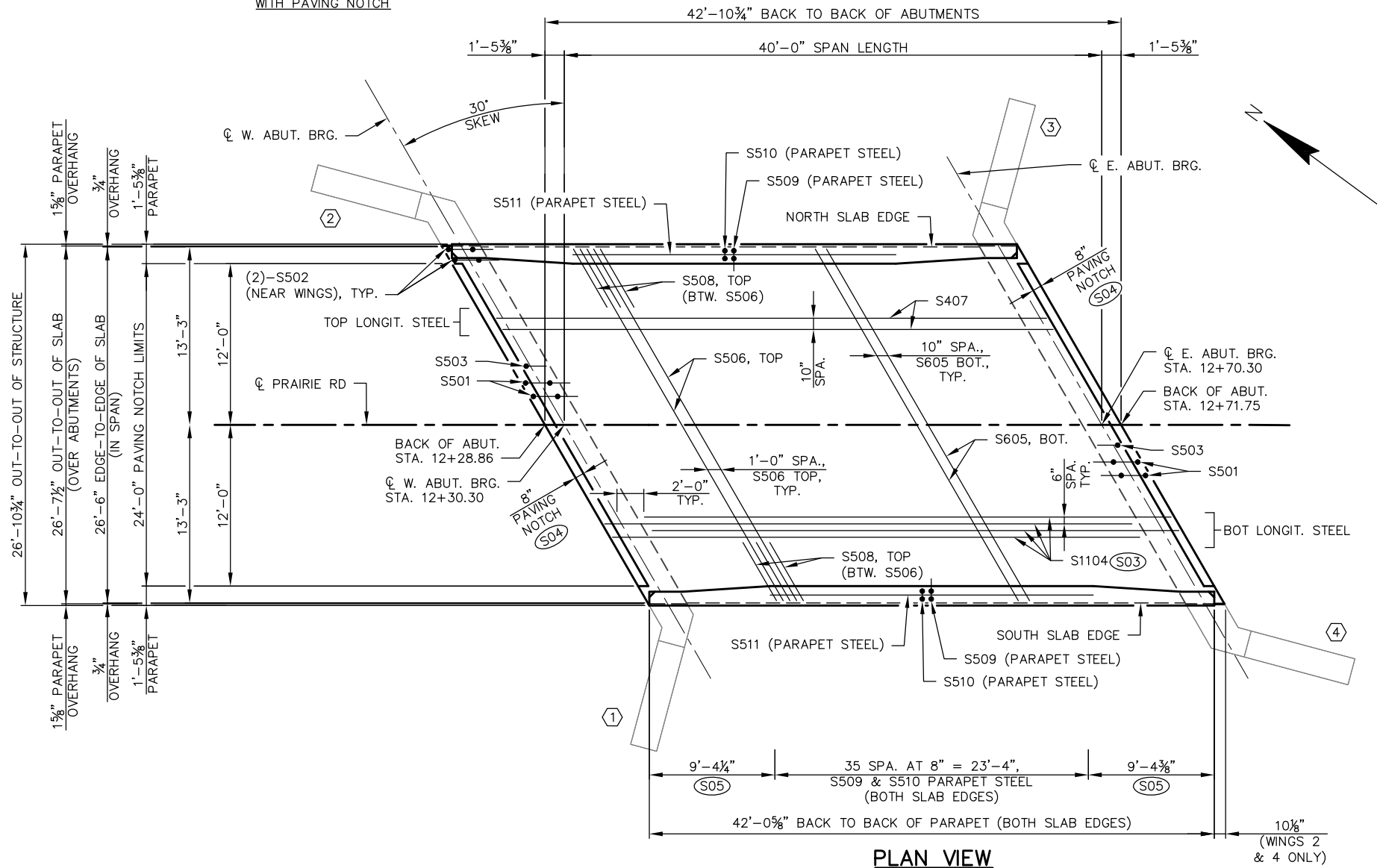
(S02) DIMENSION IS TAKEN PARALLEL TO CL PRAIRIE RD

(S03) EXTEND ONE END OF THE S1104 BAR TO 2" CLEAR OF ONE BACK FACE OF ABUTMENT. ALTERNATE BETWEEN WEST AND EAST ABUTMENTS ACROSS ENTIRE SLAB.

(S04) APPLY PROTECTIVE SURFACE TREATMENT TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES.

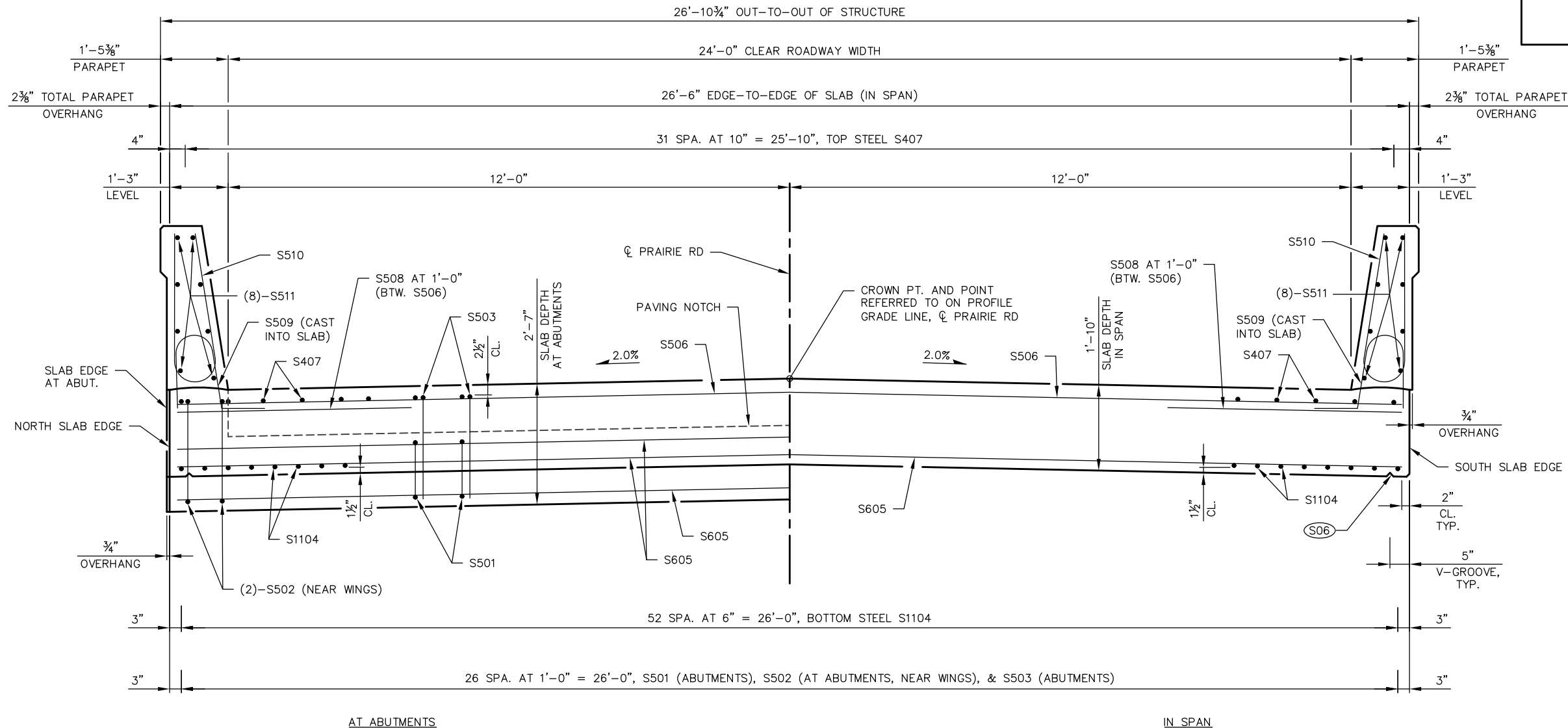
(S05) PARAPET STEEL IN TRANSITION ZONE. SEE DETAILS ON "PARAPET & SUPERSTRUCTURE REINFORCEMENT" SHEET.

INDICATES WING NUMBER



F.F. - FRONT FACE  
B.F. - BACK FACE

NO.	DATE	REVISION	BY
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STRUCTURE B-62-272			
DRAWN BY JDO		PLANS CK'D	ACK
SUPERSTRUCTURE			SHEET 7 OF 9
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CROSS SECTION THRU ROADWAY  
(LOOKING EAST)

SURVEY TOP OF SLAB ELEVATIONS

	℄ W. ABUT. BRG.	5/10 PT.	℄ E. ABUT. BRG.
NORTH SLAB EDGE			
℄ PRAIRIE RD			
SOUTH SLAB EDGE			

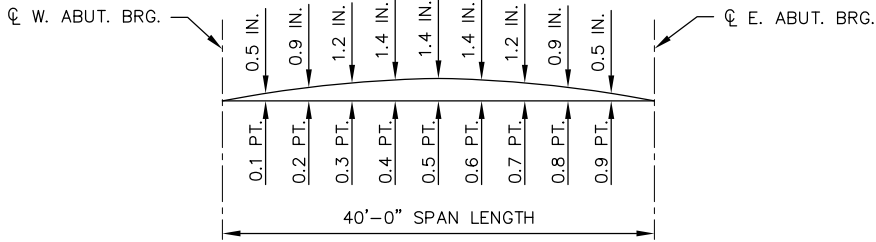
PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE ℄ OF ABUTMENTS AND AT 5/10 POINTS TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND REFERENCE LINE. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

TOP OF SLAB ELEVATIONS			
SPAN PT	INSIDE FACE OF NORTH PARAPET	℄ PRAIRIE RD	INSIDE FACE OF SOUTH PARAPET
℄ W. ABUT.	1015.81	1016.20	1016.08
0.1	1015.90	1016.28	1016.14
0.2	1015.99	1016.34	1016.18
0.3	1016.06	1016.39	1016.20
0.4	1016.11	1016.42	1016.22
0.5	1016.16	1016.45	1016.22
0.6	1016.19	1016.46	1016.20
0.7	1016.21	1016.45	1016.18
0.8	1016.22	1016.44	1016.16
0.9	1016.21	1016.42	1016.14
℄ E. ABUT.	1016.19	1016.39	1016.12

NOTES

CAMBER SPAN AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

(S06) 3/4" V-GROOVE. EXTEND V-GROOVE TO 6" FROM FRONT FACE OF ABUTMENT BODY. V-GROOVES ARE REQUIRED.



SLAB CAMBER DIAGRAM

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

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

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-62-272			
DRAWN BY JDO		PLANS CK'D	ACK
SUPERSTRUCTURE DETAILS			SHEET 8 OF 9
			36



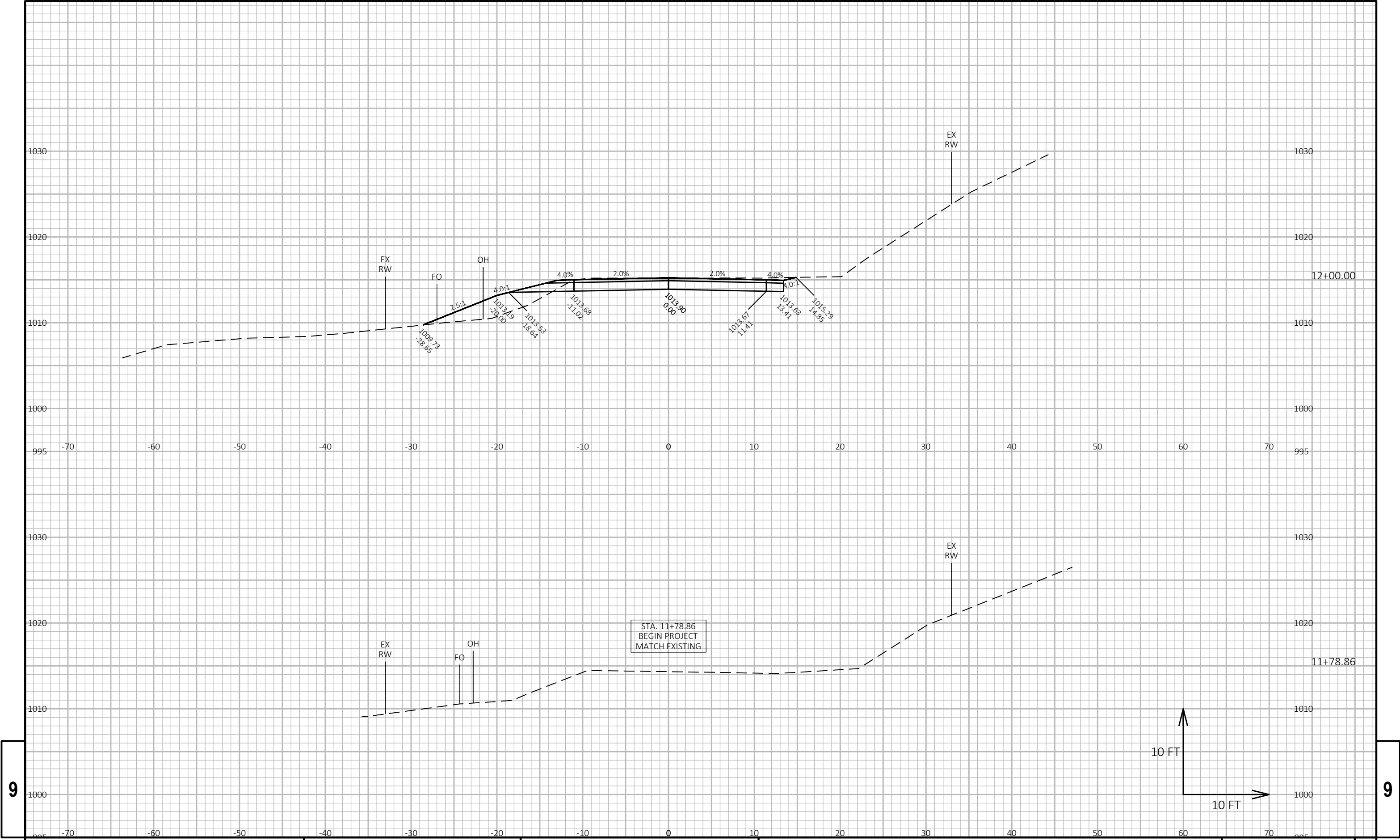
WEST APPROACH

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
11+78.86	0.00	34.35	0.00	7.95	0	0	0	0	0	0
12+00.00	21.14	37.86	0.00	21.45	28	0	12	28	15	13
12+12.00	12.00	37.13	0.00	34.11	17	0	12	45	30	15
12+35.21	23.21	0.16	0.00	1.08	16	0	15	61	49	12
STRUCTURE B-62-0272										
DIVISION 1 TOTAL					61	0	39			

EAST APPROACH

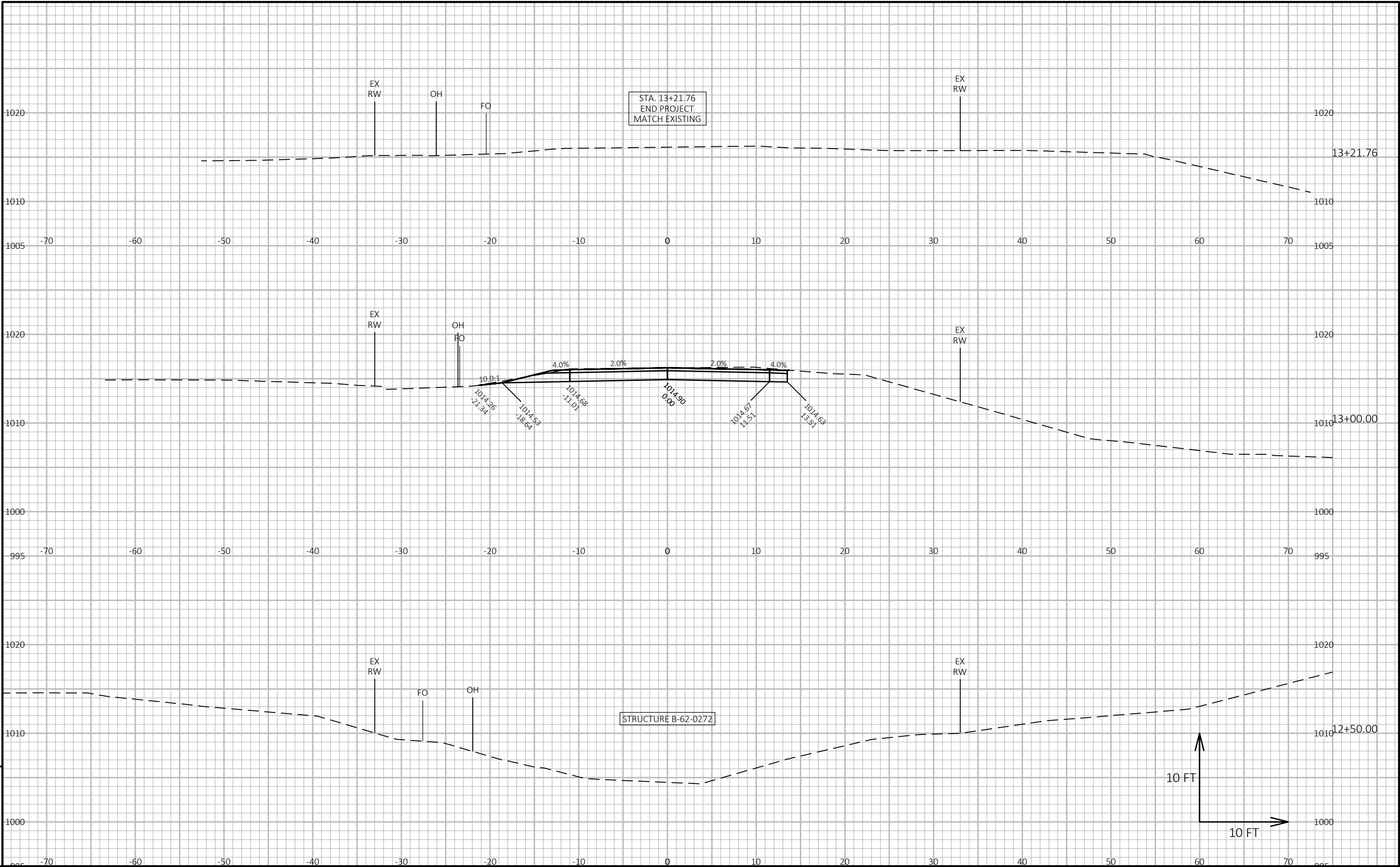
STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
STRUCTURE B-62-0272										
12+65.41	0.00	3.90	0.00	9.06	0	0	0	0	0	0
12+89.57	24.16	46.00	0.00	2.22	22	0	5	22	6	16
13+00.00	10.43	41.66	0.00	0.00	17	0	0	39	6	33
13+21.76	21.76	44.23	0.00	0.00	35	0	0	74	6	68
		DIVISION 2 TOTAL			74	0	5			
		PROJECT TOTAL			135	0	44			

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	[(CUT) - (FILL * FILL FACTOR) - (SALVAGED/UNUSABLE PAVEMENT MATERIAL)]
	PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.



9

9





## Notes



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