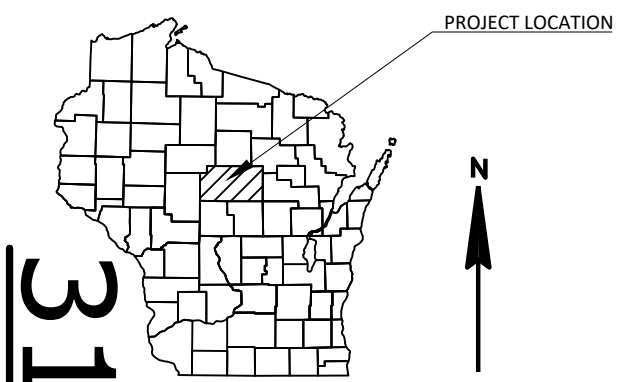


RHI MARCH 2023  
 PROJECT ID: 9525-01-70  
 WITH: N/A  
 COUNTY: MARATHON

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 Plat
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 = 44



DESIGN DESIGNATION

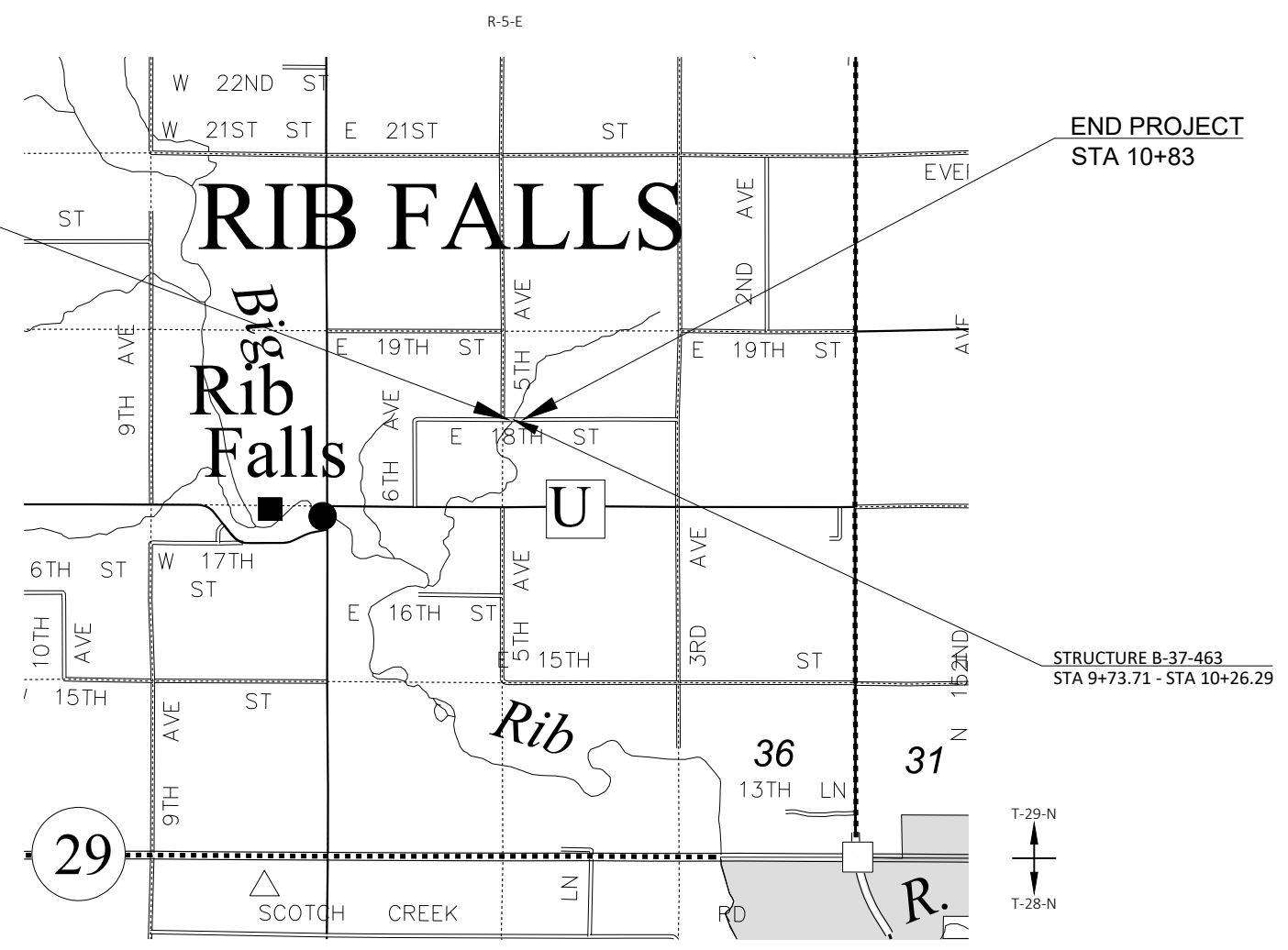
A.A.D.T. (2023)	=	<100
A.A.D.T. (2043)	=	<100
D.H.V.	=	N/A
D.D.	=	50/50
T.	=	5.0%
DESIGN SPEED	=	45 MPH
ESALS	=	15,000

CONVENTIONAL SYMBOLS

<b>PLAN</b>		<b>PROFILE</b>	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	
EXISTING RIGHT OF WAY		GRADE ELEVATION	
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)	
SLOPE INTERCEPT		<b>UTILITIES</b>	
REFERENCE LINE		ELECTRIC	
EXISTING CULVERT		FIBER OPTIC	
PROPOSED CULVERT (Box or Pipe)		GAS	
COMBUSTIBLE FLUIDS		OVERHEAD	
MARSH AREA		SANITARY SEWER	
WOODED OR SHRUB AREA		STORM SEWER	
		TELEPHONE	
		WATER	
		UTILITY PEDESTAL	
		POWER POLE	
		TELEPHONE POLE	

STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION  
 PLAN OF PROPOSED IMPROVEMENT  
**T RIB FALLS, JERSEY FALLS TRAIL**  
 PINE CREEK BRIDGE B-37-0463  
 LOC STR  
 MARATHON COUNTY

STATE PROJECT NUMBER  
**9525-01-70**



BEGIN PROJECT  
 STA 9+17  
 Y= 209593.238  
 X= 215422.031

END PROJECT  
 STA 10+83

STRUCTURE B-37-463  
 STA 9+73.71 - STA 10+26.29

LAYOUT  
 SCALE 0 1 MI  
 TOTAL NET LENGTH OF CENTERLINE = 0.031 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), MARATHON 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
9525-01-70	WISC 2023294	1

ACCEPTED FOR TOWN OF RIB FALLS  
 BY MARATHON COUNTY  
 DATE: 10/27/2022 *James M. Griesbach*  
 Highway Commissioner  
 (Title of Official)

ORIGINAL PLANS PREPARED BY

MADISON | EAU CLAIRE | APPLETON | WAUKESHA | TOMAH | WITTENBERG

October 27, 2022

STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	CORRE, INC
Designer	CORRE, INC
Project Manager	MICHAEL GRAGE
Regional Examiner	NC REGION
Regional Supervisor	DAN ERVA

APPROVED FOR THE DEPARTMENT  
 DATE: 10/27/2022 *Michael Grage*  
 (Signature)

**GENERAL NOTES**

WHEN THE QUANTITY OF BASE AGGREGATE OR ASPHALTIC SURFACE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

UTILITY REFERENCE LINES ON THE CROSS SECTIONS ARE FOR HORIZONTAL REFERENCE ONLY.

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

CURVE DATA IS BASED ON THE ARC DEFINITION.

DISTRIBUTED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE SUBGRADE SHOULDER POINTS, ARE TO BE 4-INCH SALVAGED TOPSOIL/TOPSOILED, FERTILIZED, SEEDED AND EMAT.

BEARINGS SHOWN ON THE PLANS ARE GRID BEARINGS TO THE NEAREST SECOND.

3.5-INCH ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH 2 LIFTS CONSISTING OF A 1.75-INCH LOWER LIFT AND 1.75-INCH SURFACE LIFT.

SILT FENCE IS TO BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, AND IN PLACE PRIOR TO REMOVALS OR GROUND DISTURBING ACTIVITIES.

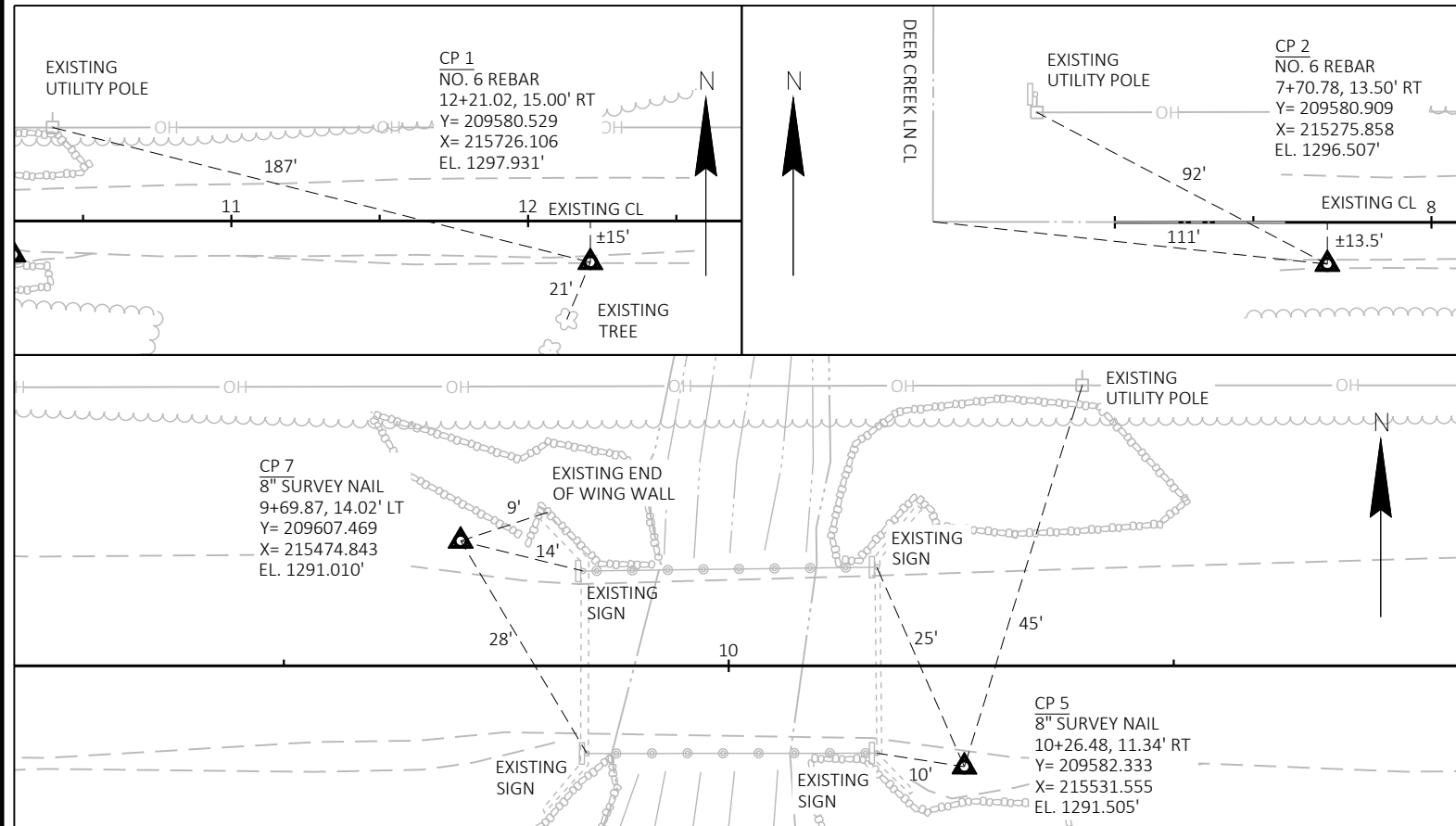
EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE E.C.I.P. AND APPROVED BY THE ENGINEER IN THE FIELD.

**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 STRIP-TURF	.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 SLOPE-TURF			.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 = 0.30 ACRES  
 TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.11 ACRES

**CONTROL POINT TIES**



**CONSULTANT CONTACT**

CORRE, INC.  
 6510 GRAND TETON PLAZA, SUITE 314  
 MADISON, WI 53719

ATTN: ERIC PRICE, P.E.  
 TELEPHONE: (608) 826-6146  
 E-MAIL: EPRICE@CORREINC.COM

**DNR CONTACT**

DEPARTMENT OF NATURAL RESOURCES  
 DNR WISCONSIN RAPIDS SERVICE CENTER  
 473 GRIFFITH DRIVE  
 WISCONSIN RAPIDS, WI 54494

ATTN: CASEY JONES  
 TELEPHONE: (715) 213-6571  
 E-MAIL: CASEY.JONES@WISCONSIN.GOV

**COUNTY CONTACT**

MARATHON COUNTY HIGHWAY COMMISSIONER  
 1430 WEST STREET  
 WAUSAU, WI 54401

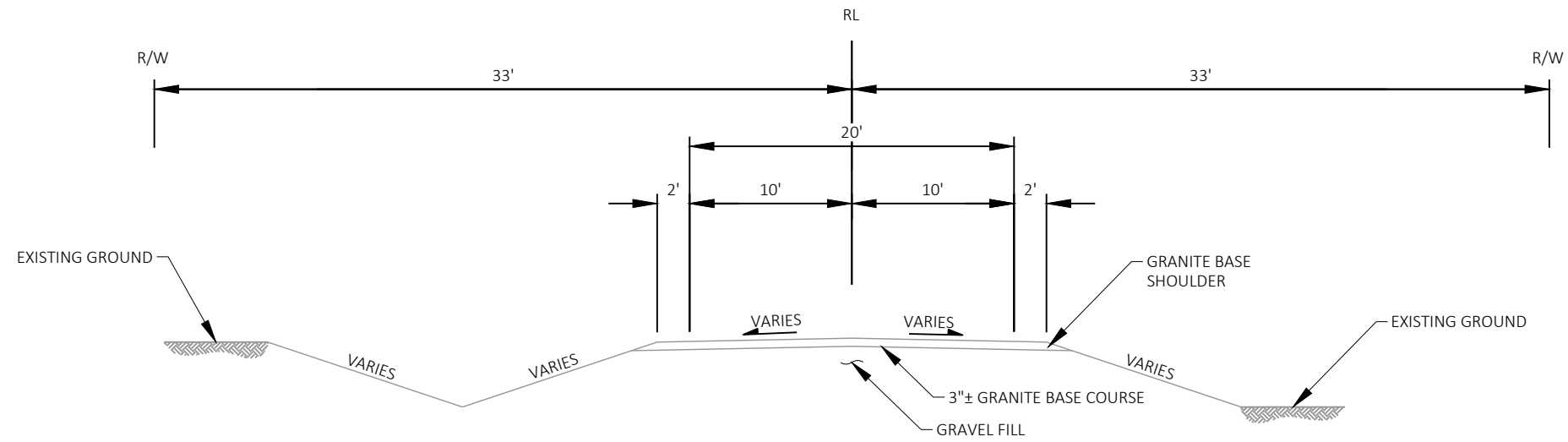
ATTN: JAMES GRIESBACH  
 TELEPHONE: (715) 261-1800  
 E-MAIL: JAMES.GRIESBACH@CO.MARATHON.WI.US

**UTILITY CONTACTS**

WISCONSIN PUBLIC SERVICE  
 PO BOX 1166  
 WAUSAU, WI 54404-1166

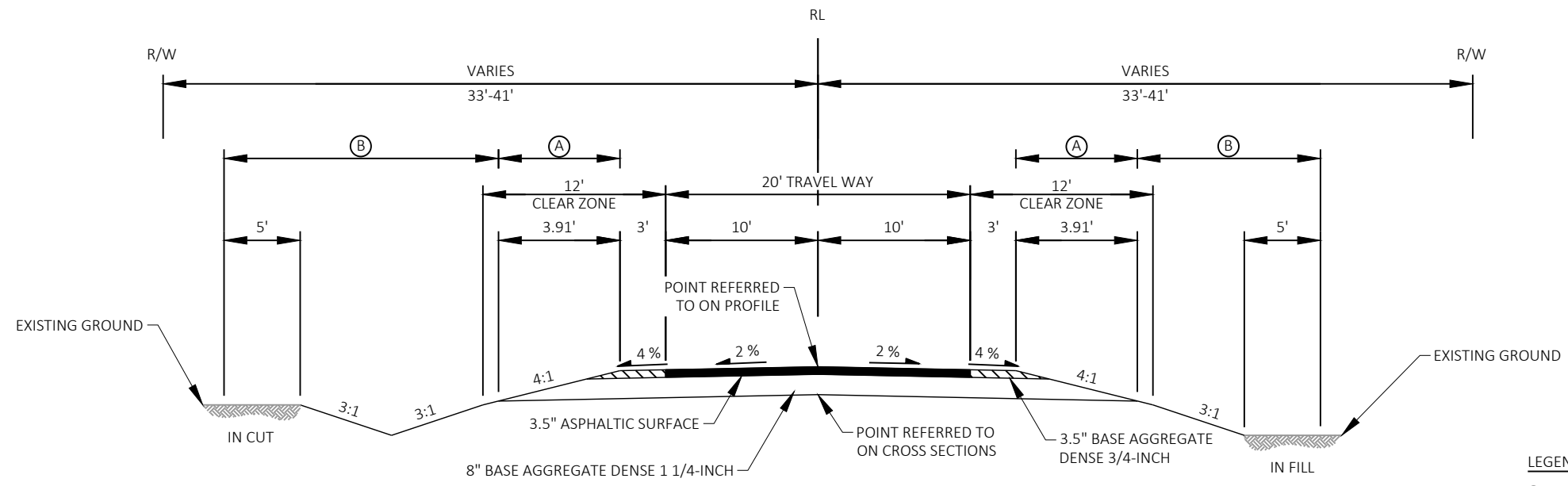
ATTN: JESSE PATTEN  
 TELEPHONE: (715) 573-0349  
 E-MAIL: JESSE.PATTEN@WISCONSINPUBLICSERVICE.COM

**DIGGERS HOTLINE**  
 Dial 811 or (800)242-8511  
 www.DiggersHotline.com



**EXISTING TYPICAL SECTION**

STA 9+17.00 - 9+83.35  
STA 10+16.65 - 10+83.00

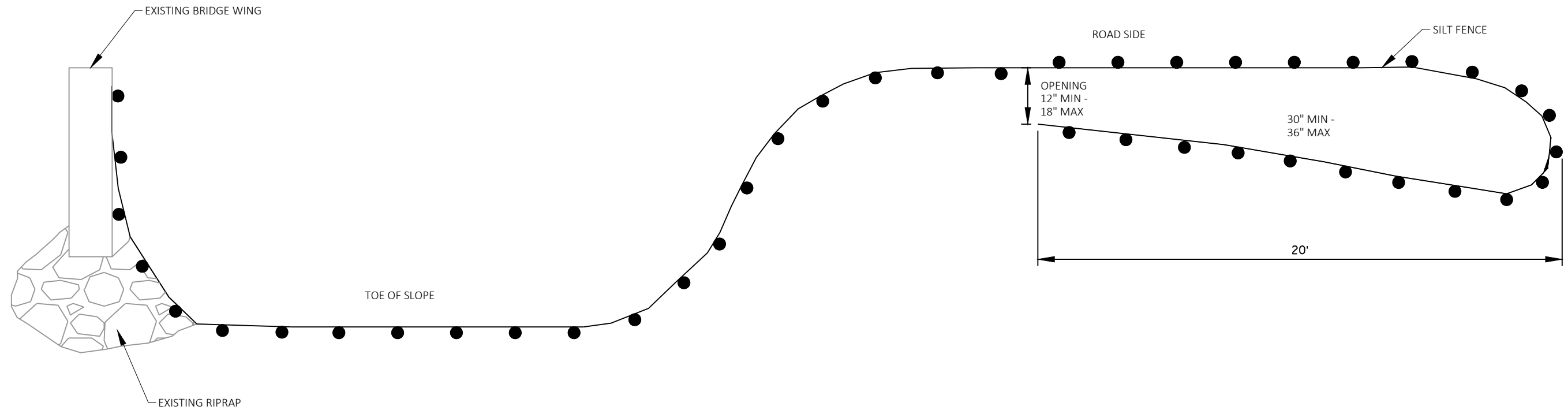


**FINISHED TYPICAL SECTION**

STA 9+17.00 - 9+73.71  
STA 10+26.29 - 10+83.00

**LEGEND**

- (A) FERTILIZER TYPE B; SEEDING NO. 20
- (B) SALVAGED TOPSOIL; EROSION MAT URBAN CLASS I TYPE B; FERTILIZER TYPE B; SEEDING MIXTURE NO.20



GENERAL NOTES:  
 SILT FENCE POSTS FOR THE TURN-AROUND SHOULD BE ON THE OUTSIDE OF THE  
 TURN-AROUND. AND TRENCHED IN ACCORDING TO SILT FENCE REQUIREMENTS.

PLAN VIEW

TEMPORARY SMALL ANIMAL TURN-AROUND



Estimate Of Quantities

9525-01-70

Line	Item	Item Description	Unit	Total	Qty
0002	201.0205	Grubbing	STA	2.000	2.000
0004	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. B-37-463	EACH	1.000	1.000
0006	205.0100	Excavation Common	CY	89.000	89.000
0008	206.1001	Excavation for Structures Bridges (structure) 01. B-37-463	EACH	1.000	1.000
0010	208.0100	Borrow	CY	142.000	142.000
0012	210.1500	Backfill Structure Type A	TON	270.000	270.000
0014	213.0100	Finishing Roadway (project) 01. 9525-01-70	EACH	1.000	1.000
0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	12.000	12.000
0018	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	180.000	180.000
0020	455.0605	Tack Coat	GAL	20.000	20.000
0022	465.0105	Asphaltic Surface	TON	60.000	60.000
0024	465.0315	Asphaltic Flumes	SY	12.000	12.000
0026	502.0100	Concrete Masonry Bridges	CY	215.000	215.000
0028	502.3200	Protective Surface Treatment	SY	152.000	152.000
0030	502.3210	Pigmented Surface Sealer	SY	76.000	76.000
0032	505.0400	Bar Steel Reinforcement HS Structures	LB	3,720.000	3,720.000
0034	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	30,700.000	30,700.000
0036	516.0500	Rubberized Membrane Waterproofing	SY	20.000	20.000
0038	550.0020	Pre-Boring Rock or Consolidated Materials	LF	180.000	180.000
0040	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	200.000	200.000
0042	606.0300	Riprap Heavy	CY	260.000	260.000
0044	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	220.000	220.000
0046	618.0100	Maintenance And Repair of Haul Roads (project) 01. 9525-01-70	EACH	1.000	1.000
0048	619.1000	Mobilization	EACH	1.000	1.000
0050	624.0100	Water	MGAL	2.000	2.000
0052	625.0500	Salvaged Topsoil	SY	310.000	310.000
0054	628.1504	Silt Fence	LF	550.000	550.000
0056	628.1520	Silt Fence Maintenance	LF	550.000	550.000
0058	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0060	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0062	628.2008	Erosion Mat Urban Class I Type B	SY	310.000	310.000
0064	628.6005	Turbidity Barriers	SY	160.000	160.000
0066	629.0210	Fertilizer Type B	CWT	0.250	0.250
0068	630.0120	Seeding Mixture No. 20	LB	13.000	13.000
0070	630.0200	Seeding Temporary	LB	13.000	13.000
0072	630.0500	Seed Water	MGAL	10.000	10.000
0074	634.0614	Posts Wood 4x6-Inch X 14-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	4.000	4.000
0080	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0082	642.5001	Field Office Type B	EACH	1.000	1.000
0084	643.0420	Traffic Control Barricades Type III	DAY	1,260.000	1,260.000
0086	643.0705	Traffic Control Warning Lights Type A	DAY	1,960.000	1,960.000
0088	643.0900	Traffic Control Signs	DAY	980.000	980.000
0090	643.5000	Traffic Control	EACH	1.000	1.000
0092	645.0111	Geotextile Type DF Schedule A	SY	58.000	58.000
0094	645.0120	Geotextile Type HR	SY	340.000	340.000
0096	650.4500	Construction Staking Subgrade	LF	113.000	113.000
0098	650.5000	Construction Staking Base	LF	113.000	113.000

Estimate Of Quantities

9525-01-70

Line	Item	Item Description	Unit	Total	Qty
0100	650.6501	Construction Staking Structure Layout (structure) 01. B-37-463	EACH	1.000	1.000
0102	650.9911	Construction Staking Supplemental Control (project) 01. 9525-01-70	EACH	1.000	1.000
0104	650.9920	Construction Staking Slope Stakes	LF	113.000	113.000
0106	715.0502	Incentive Strength Concrete Structures	DOL	1,260.000	1,260.000
0108	999.2005.S	Maintaining Bird Deterrent System (station) 01. 10+00	EACH	1.000	1.000
0110	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	150.000	150.000
0112	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0114	SPV.0195	Special 01. Select Crushed Material for Travel Corridor	TON	180.000	180.000

3

3

**BASE AGGREGATE ITEMS**

STATION TO STATION	LOCATION	201.0205 GRUBBING STA
9+00 - 11+00	JERSEY FALLS TRAIL	2
TOTAL 0010		2

STATION TO STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL
9+17 - 9+73	EAST APPROACH SHLDR	6	--	--
9+17 - 9+73	EAST APPROACH	--	90	1
10+26 - 10+83	WEST APPROACH	--	90	1
10+26 - 10+83	WEST APPROACH SHLDR	6	--	--
TOTAL 0010		12	180	2

**ASPHALT ITEMS**

STATION TO STATION	LOCATION	455.0605 TACK COAT GAL	465.0105 ASPHALTIC SURFACE TON	465.0315 ASPHALTIC FLUMES SY
9+17 - 9+73	WEST APPROACH	10	30	--
9+55	WEST APPROACH	--	--	6
9+62	WEST APPROACH	--	--	6
10+26 - 10+83	EAST APPROACH	10	30	--
TOTAL 0010		20	60	12

**EROSION CONTROL ITEMS**

STATION TO STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.6005 TURBIDITY BARRIERS SY
9+17 - 9+73	WEST APPROACH	270	270	--
10+00	STRUCTURE	--	--	160
10+26 - 10+83	EAST APPROACH	280	280	--
TOTAL 0010		550	550	160

**EROSION CONTROL ITEMS (CONT'D)**

LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
PROJECT	5	2
TOTAL 0010	5	2

DIVISION	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION [CY] (1)		SALVAGED/UNUSABLE PAVEMENT MATERIAL (3)	AVAILABLE MATERIAL (4)	UNEXPANDED FILL	EXPANDED FILL (5) FACTOR 1.25	MASS ORDINATE +/- (6)	208.0100 BORROW [CY]
			CUT (2)	EBS EXCAVATION						
DIVISION 1 - JERSEY FALLS TRAIL	9+17 TO 10+83	JERSEY FALLS TRAIL	89		0	89	185	231	-142	
DIVISION 1 SUBTOTAL			89	0	0	89	185	231	-142	142
GRAND TOTAL			89	0	0	89	185	231	-142	142
TOTAL COMMON EXC			89							

**NOTES:**

- (1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
- (2) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- (3) SALVAGED/UNUSABLE PAVEMENT MATERIAL
- (4) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE 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.

**LANDSCAPING ITEMS**

STATION	TO	STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
9+17	-	9+73	WEST APPROACH	120	120	0.10	5	5	4
10+26	-	10+83	EAST APPROACH	130	130	0.10	5	5	4
			UNDISTRIBUTED (25%)	60	60	0.05	3	3	2
TOTAL 0010				310	310	0.25	13	13	10

**SIGNING ITEMS**

LOCATION	634.0614 POSTS WOOD 4X6-INCH X 14- FT EACH	637.2230 SIGNS TYPE II REFLECTIVE F SF	REMARKS
PROPOSED STRUCTURE B-37-463	4	12	PROPOSED BRIDGE HASH MARKS; W5-52L & W5-52R
TOTAL 0010	4	12	

NOTE: PLACE BRIDGE HASH MARK SIGNS PER SDD "SIGNING AND MARKING FOR TWO LANE BRIDGES"

**REMOVING SIGN ITEMS**

LOCATION	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
EXISTING BRIDGE P-37-194	4	4	EXISTING BRIDGE HASH MARKS
TOTAL 0010	4	4	

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

**CONSTRUCTION STAKING ITEMS**

**TRAFFIC CONTROL ITEMS**

LOCATION	DURATION	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0900 TRAFFIC CONTROL SIGNS DAY	643.5000 TRAFFIC CONTROL EACH
PROJECT	70 DAYS	1,260	1,960	980	1
TOTAL 0010		1,260	1,960	980	1

STATION	TO	STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (01. 9525-01-70) EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF	999.2005.S MAINTAINING BIRD DETERRENT SYSTEM (STATION 10+00) EACH
9+17	-	9+73	WEST APPROACH	56	56	--	56	
10+26	-	10+83	EAST APPROACH	57	57	--	57	
			PROJECT	--	--	1	--	
TOTAL 0010				113	113	1	113	
TOTAL 0020								1

CONVENTIONAL SYMBOLS		
SECTION LINE		SECTION CORNER SYMBOL
QUARTER LINE		SECTION CORNER MONUMENT
SIXTEENTH LINE		GEODETIC SURVEY MONUMENT
NEW REFERENCE LINE		SIXTEENTH CORNER MONUMENT
NEW R/W LINE		SIGN
EXISTING R/W OR HE LINE		OFF-PREMISE SIGN
PROPERTY LINE		
LOT, TIE & OTHER MINOR LINES		
SLOPE INTERCEPT		
CORPORATE LIMITS		
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)		
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)		
TEMPORARY LIMITED EASEMENT AREA		
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)		
TRANSMISSION STRUCTURES		
BUILDING TO BE REMOVED		
BRIDGE		
CULVERT		
PARALLEL OFFSETS		

CONVENTIONAL UTILITY SYMBOLS		
WATER		
GAS		
TELEPHONE		
OVERHEAD TRANSMISSION LINES		
ELECTRIC		
CABLE TELEVISION		
FIBER OPTIC		
SANITARY SEWER		
STORM SEWER		
ELECTRIC TOWER		

CONVENTIONAL ABBREVIATIONS		
ACCESS RIGHTS	AR	POINT OF COMPOUND CURVE
ACRES	AC	POINT OF INTERSECTION
AHEAD	AH	PROPERTY LINE
ALUMINUM AND OTHERS	ALUM	RECORDED AS (100')
BACK	ET AL	REEL / IMAGE
BLOCK	BK	REFERENCE LINE
CENTERLINE	BLK	REMAINING
CERTIFIED SURVEY MAP	C/L	RESTRICTIVE DEVELOPMENT EASEMENT
CONCRETE	CSM	RT
COUNTRY	CONC	RIGHT OF WAY
COUNTY TRUNK HIGHWAY	CO	R/W
DISTANCE	CTH	SEC
CORNER	DIST	SEPTIC VENT
DOCUMENT NUMBER	COR	SQUARE FEET
EASEMENT	DOC	STATE TRUNK HIGHWAY
EXISTING	EASE	STH
GAS VALVE	EX	STATION
GRID NORTH	GV	TELEPHONE PEDESTAL
HIGHWAY EASEMENT	GN	TEMPORARY LIMITED EASEMENT
IDENTIFICATION	HE	TLE
LAND CONTRACT	ID	TRANSPORTATION PROJECT PLAT
LEFT	LC	UNITED STATES HIGHWAY
MONUMENT	LT	VOLUME
NATIONAL GEODETIC SURVEY NUMBER	MON	
OUTLOT	NGS	
PAGE	NO	
POINT OF TANGENCY	OL	
PERMANENT LIMITED EASEMENT	P	
POINT OF BEGINNING	PT	
POINT OF CURVATURE	PLE	
	POB	
	PC	

CURVE DATA ABBREVIATIONS		
LONG CHORD	LCH	
LONG CHORD BEARING	LCB	
RADIUS	R	
DEGREE OF CURVE	D	
CENTRAL ANGLE	L	/DELTA
LENGTH OF CURVE	L	
TANGENT	T	
DIRECTION AHEAD	DA	
DIRECTION BACK	DB	

**NOTES:**

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATE SYSTEM COORDINATES (WCCS), MARATHON COUNTY, NAD83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

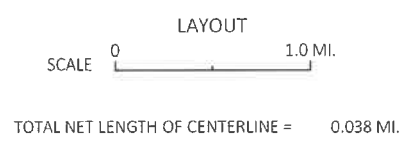
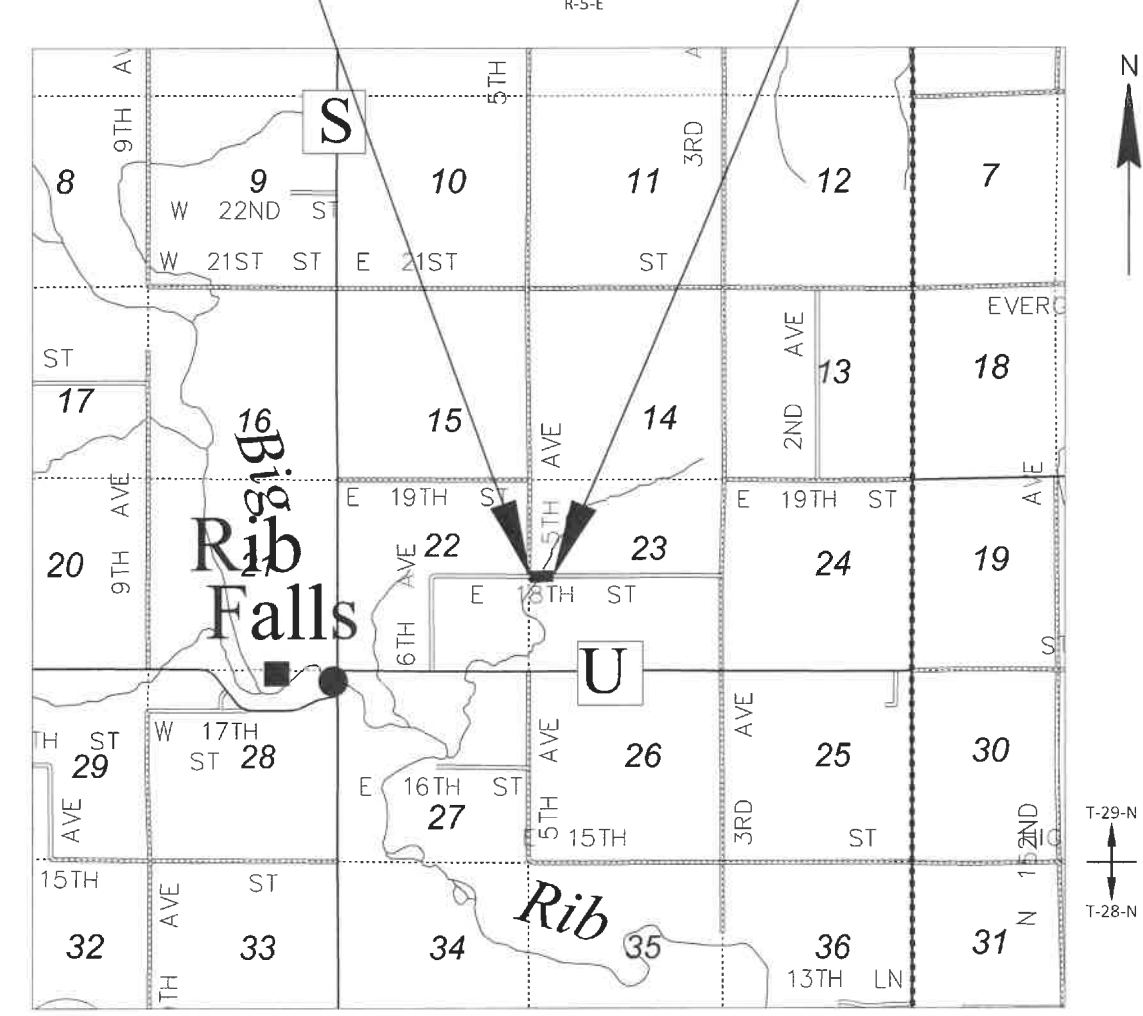
RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE DETAIL PAGES.

INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE AND ACCESS CONTROL ARE LISTED ON THE DETAIL PAGES.

**BEGIN RELOCATION ORDER**  
 STA 9+00  
 0.90' NORTH AND 240.27' EAST OF WEST QUARTER OF SECTION 23, T-29-N, R-5-E

**END RELOCATION ORDER**  
 STA 11+00  
 1.69' NORTH AND 440.27' EAST OF WEST QUARTER OF SECTION 23, T-29-N, R-5-E



R/W PROJECT NUMBER 9525-01-00	SHEET NUMBER 4.01	TOTAL SHEETS 2
FEDERAL PROJECT NUMBER N/A		
PLAT OF RIGHT OF WAY REQUIRED FOR <b>T RIB FALLS, JERSEY FALLS TRAIL</b> <b>PINE CREEK BRIDGE B-37-0463</b>		
LOC STR	MARATHON COUNTY	
CONSTRUCTION PROJECT NUMBER 9525-01-70		

THIS PLAT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES AND ACCESS RIGHTS.

**CORRE ENGINEERING**  
 MADISON | EAU CLAIRE | WAUKESHA | APPLETON  
 TOMAH | WITTENBERG

**WISCONSIN LAND SURVEYOR**  
 BRYON J. MOTSZKO  
 S-2846  
 MENOMONIE, WI

I, BRYON J. MOTSZKO, PROFESSIONAL LAND SURVEYOR, S-2846, HEREBY CERTIFY THAT I HAVE SURVEYED THE LAND DESCRIBED HEREON AND THAT THE MAP HEREON IS A CORRECT REPRESENTATION OF THAT SURVEY TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE: 5/3/22 *Bryon Motzko*  
 (Signature)

REVISION DATE	TOWN OF RIB FALLS
	APPROVED BY MARATHON COUNTY ON BEHALF OF THE TOWN
	DATE: _____ (Signature)

TOWN

SE-NE

4

COURSE TABLE				
POINT	POINT	BEARING	DISTANCE	
100	-	101	N00° 13' 41"W	8.22'
101	-	102	N89° 46' 19"E	158.00'
102	-	103	S00° 13' 41"E	8.39'
103	-	104	S00° 13' 41"E	66.00'
104	-	105	S00° 13' 41"E	7.61'
105	-	106	S89° 46' 19"W	158.00'
106	-	107	N00° 13' 41"W	7.78'
107	-	108	N00° 13' 41"W	33.00'
108	-	100	N00° 13' 41"W	33.00'

POINT TABLE		
POINT	Y	X
100	209626.02	215421.90
101	209634.24	215421.87
102	209634.87	215579.87
103	209626.48	215579.90
104	209560.48	215580.16
105	209552.87	215580.19
106	209552.24	215422.19
107	209560.02	215422.16
108	209593.02	215422.03

**SCHEDULE OF LANDS & INTERESTS REQUIRED**

OWNERS NAMES ARE SHOWN FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE TOWN.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	RIGHT OF WAY REQUIRED		
			NEW (AC)	EXISTING (AC)	TOTAL (AC)
1	THOMAS L. & PAMELA J. BALZ AS TRUSTEES OF THE THOMAS L. & PAMELA J. BALZ REVOCABLE TRUST DATED: FEBRUARY 9, 2010	FEE	0.03	0.12	0.15
2	GARY D. & DARLENE S. BALZ AS TRUSTEES OF THE GARY D. & DARLENE S. BALZ REVOCABLE TRUST DATED: NOVEMBER 11, 2015	FEE	0.03	0.12	0.15

GN



SW-NW

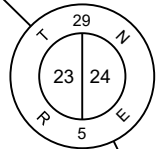
THOMAS L. & PAMELA J. BALZ AS TRUSTEES OF THE THOMAS L. & PAMELA J. BALZ REVOCABLE TRUST DATED: FEBRUARY 9, 2010

1

GARY D. & DARLENE S. BALZ AS TRUSTEES OF THE GARY D. & DARLENE S. BALZ REVOCABLE TRUST DATED: NOVEMBER 11, 2015

2

SURVEY NAIL  
Y = 209607.47  
X = 220400.09



CONCRETE MONUMENT  
Y = 209592.27  
X = 215164.76

BEGIN RELOCATION ORDER  
STA 9+00  
Y = 209593.24  
X = 215422.03

END RELOCATION ORDER  
STA 11+00  
Y = 209593.97  
X = 215605.03

EXISTING UTILITY EASEMENT TO BE RELEASED  
NONE

NOTE:  
EXISTING RIGHT-OF-WAY FOR JERSEY FALLS TRAIL IS ESTABLISHED FROM EXISTING CENTERLINE. (WIS STATUTE 82.31) WHICH IS ALONG THE SECTION QUARTER LINE.

REVISION DATE	DATE	SCALE, FEET
	05/03/2022	0 25 50
	GRID FACTOR N/A	

DATE	05/03/2022
GRID FACTOR	N/A

SCALE, FEET	0 25 50
-------------	---------

HWY:	LOCAL STREET
COUNTY:	MARATHON

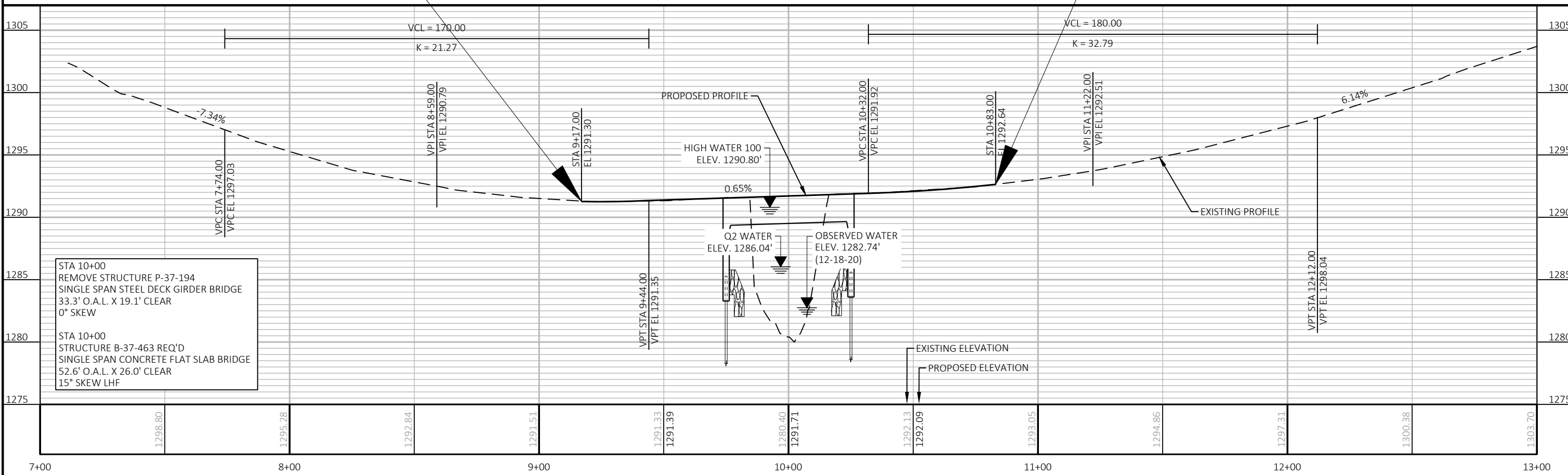
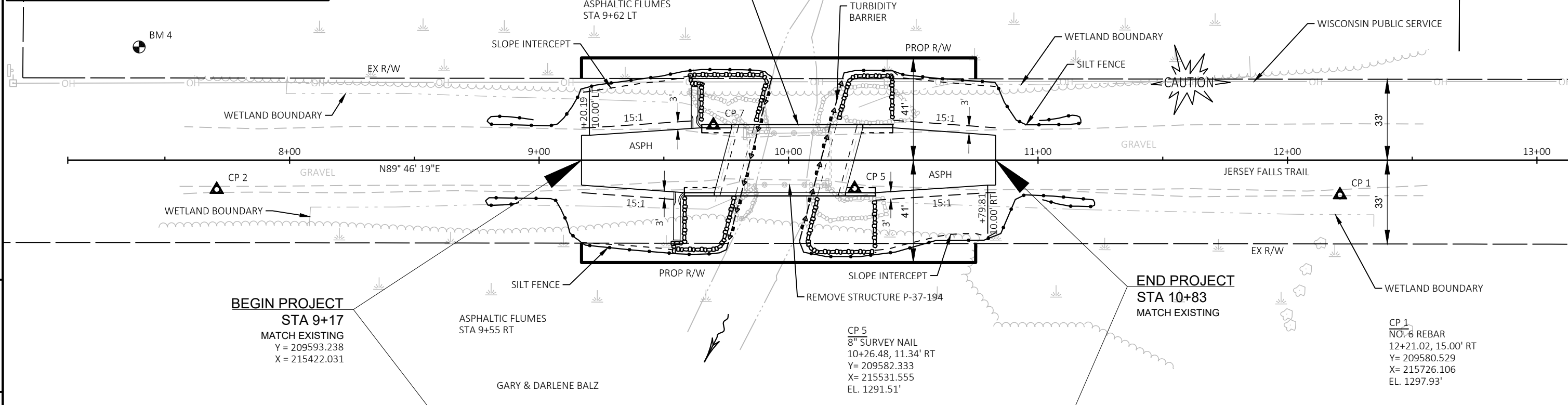
STATE R/W PROJECT NUMBER:	9525-01-00
CONSTRUCTION PROJECT NUMBER:	9525-01-70

PLAT SHEET	4.02
PS&E SHEET	

BENCHMARKS				
NO.	STATION	OFFSET	DESCRIPTION	ELEVATION
BM 3	13+66.94	31.07 LT	6" NAIL IN POWER POLE	1312.33
BM 4	7+39.67	45.38 LT	6" NAIL IN 14" PINE	1302.09

CP 7  
8" SURVEY NAIL  
9+69.87, 14.02' LT  
Y= 209607.469  
X= 215474.843  
EL. 1291.01'

THOMAS & PAMELA BALZ



PROJECT NO: 9525-01-70	HWY: LOC STR	COUNTY: MARATHON	PLAN AND PROFILE: JERSEY FALLS TRAIL	SCALE, FEET: 1 IN:40 FT	SHEET: E
------------------------	--------------	------------------	--------------------------------------	-------------------------	----------

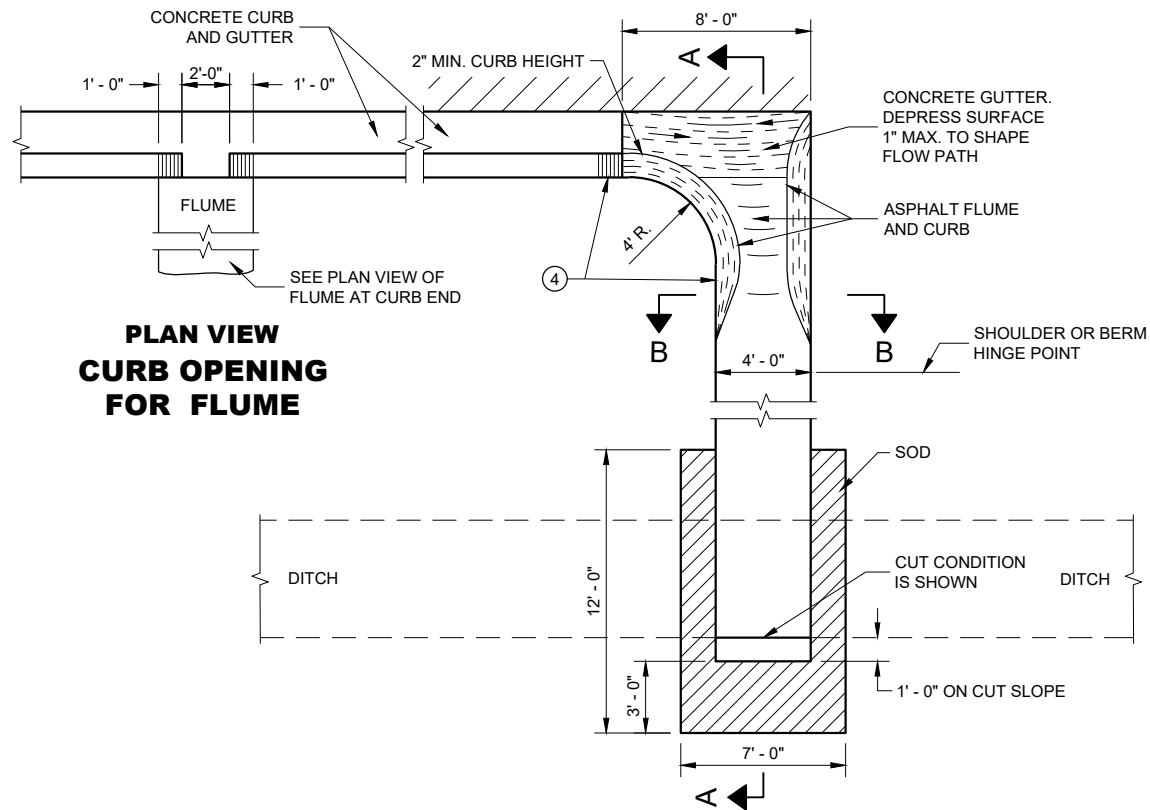
## Standard Detail Drawing List

08D04-06	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-10	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS



NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

### ASPHALTIC FLUME



**PLAN VIEW  
CURB OPENING  
FOR FLUME**

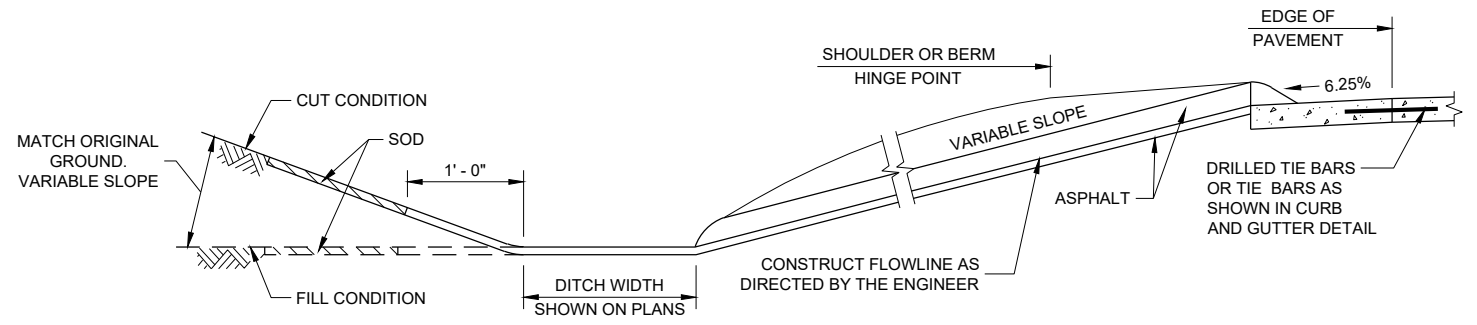
**PLAN VIEW  
FLUME AT CURB END**

### GENERAL NOTES

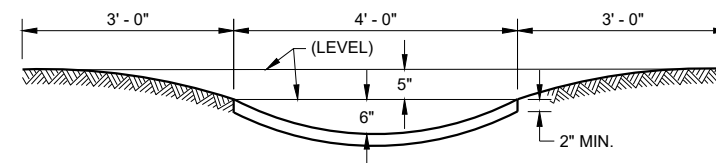
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

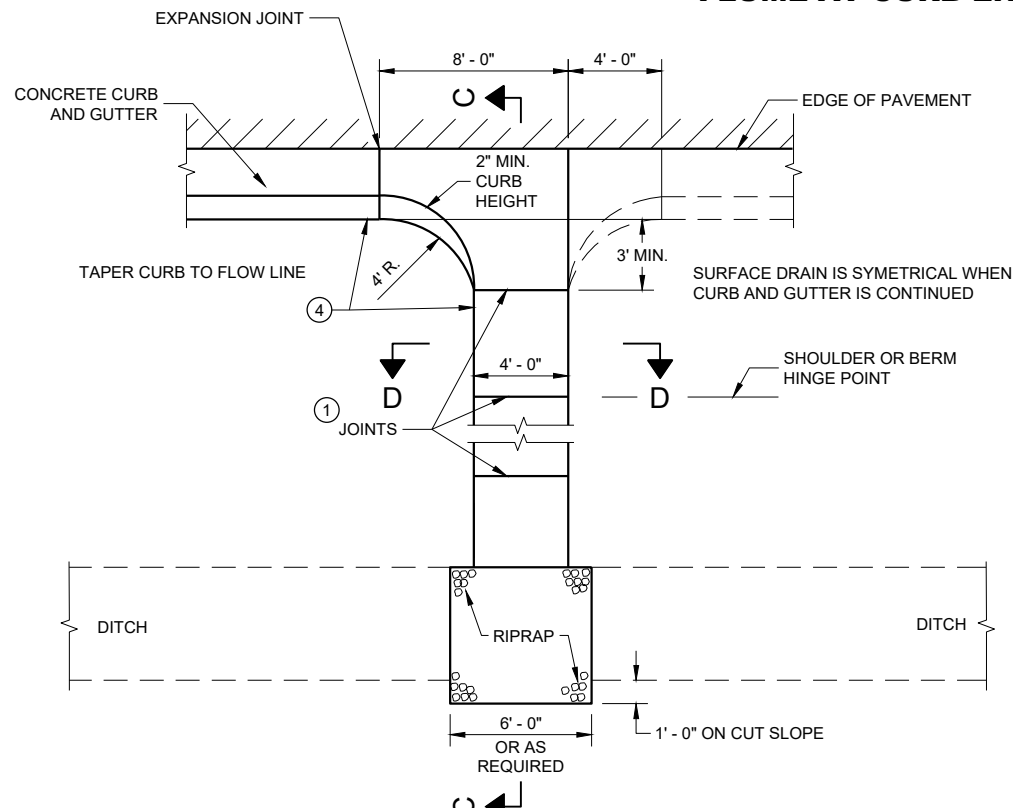
- ① JOINTS SHALL BE 1/8" TO 1/4" WIDE BY 1 1/2" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
- ② GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
- ③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
- ④ ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.



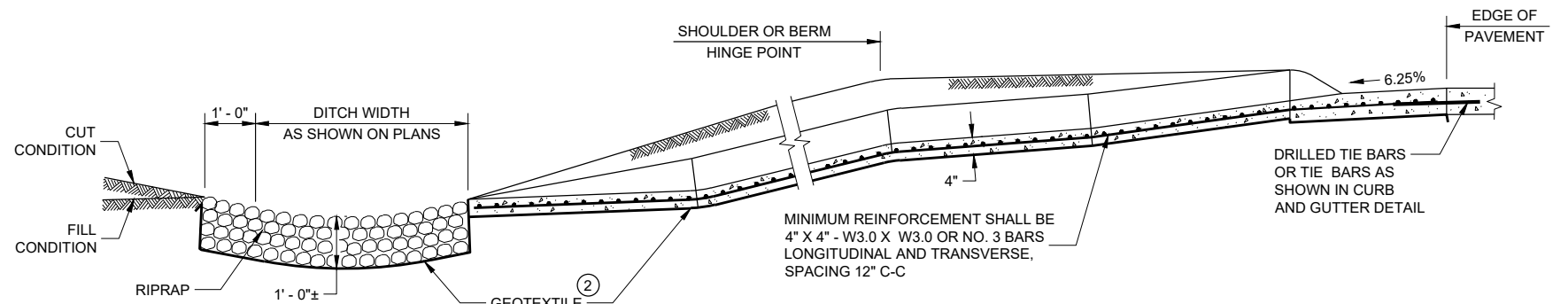
**SECTION A - A**



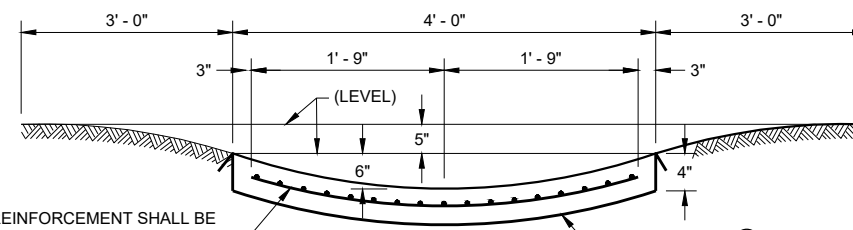
**SECTION B - B**



**PLAN VIEW  
CONCRETE SURFACE DRAIN**



**SECTION C - C**



**SECTION D - D**

MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE, SPACING 12" C-C

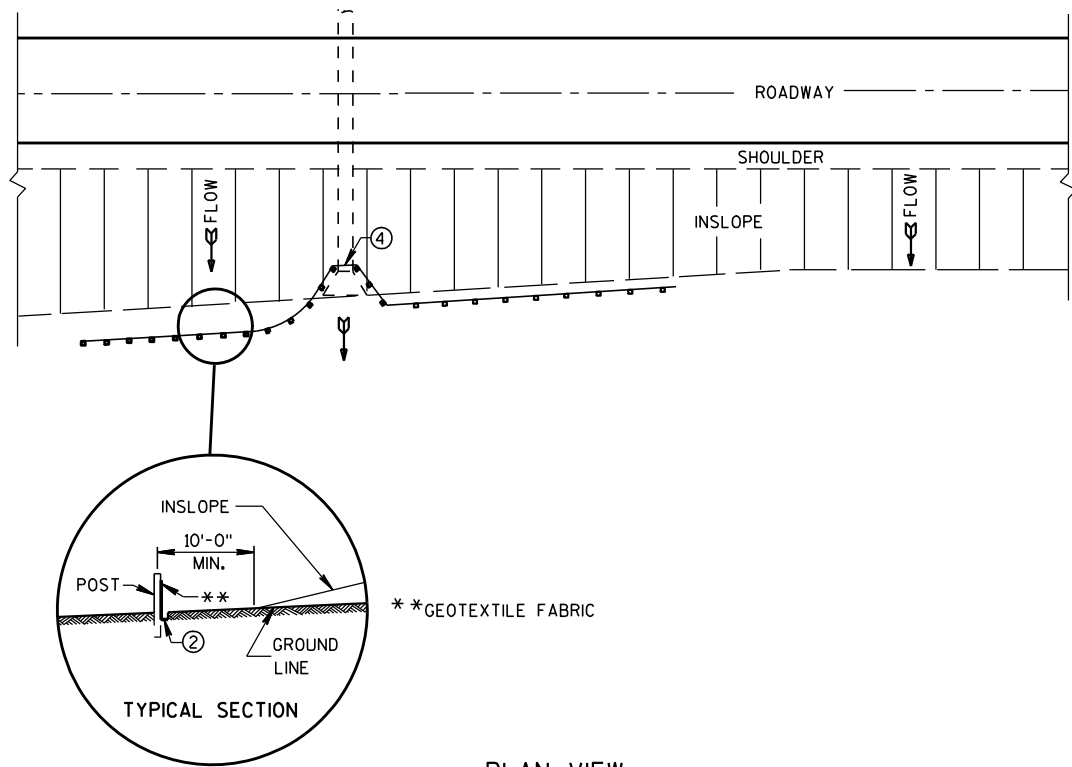
MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE, SPACING 12" C-C

### CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

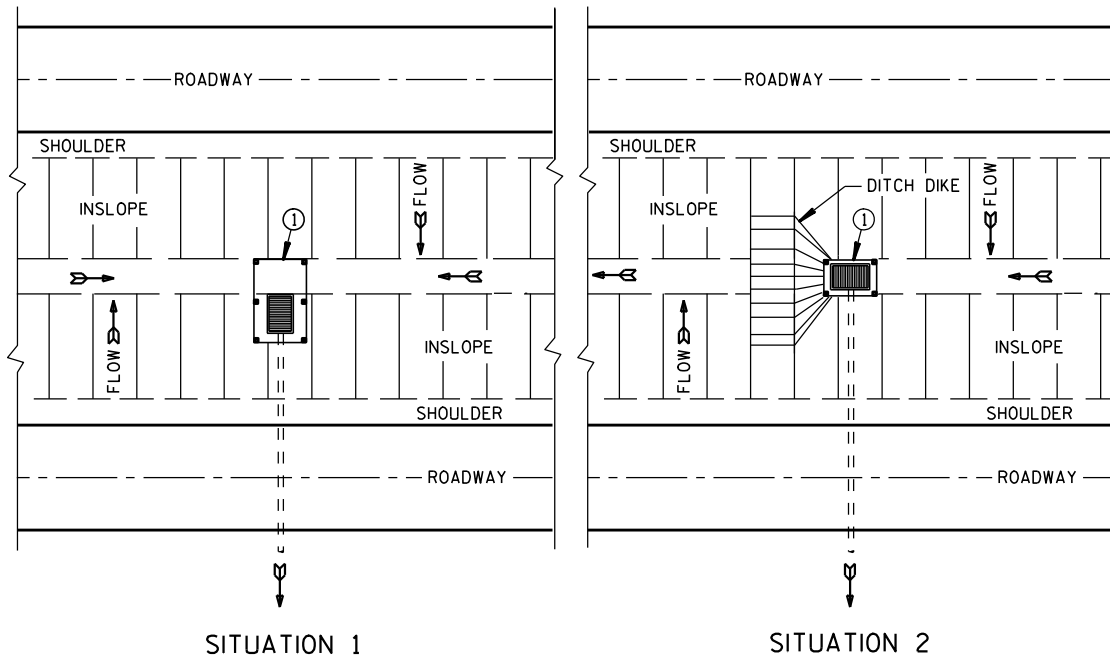
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
November 2021 /S/ Rodney Taylor  
DATE ROADWAY STANDARDS DEVELOPMENT  
ENGINEER

FHWA



PLAN VIEW  
TYPICAL APPLICATION OF SILT FENCE

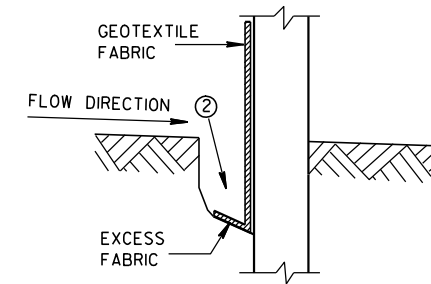


SITUATION 1 SITUATION 2  
PLAN VIEW  
SILT FENCE AT MEDIAN SURFACE DRAINS

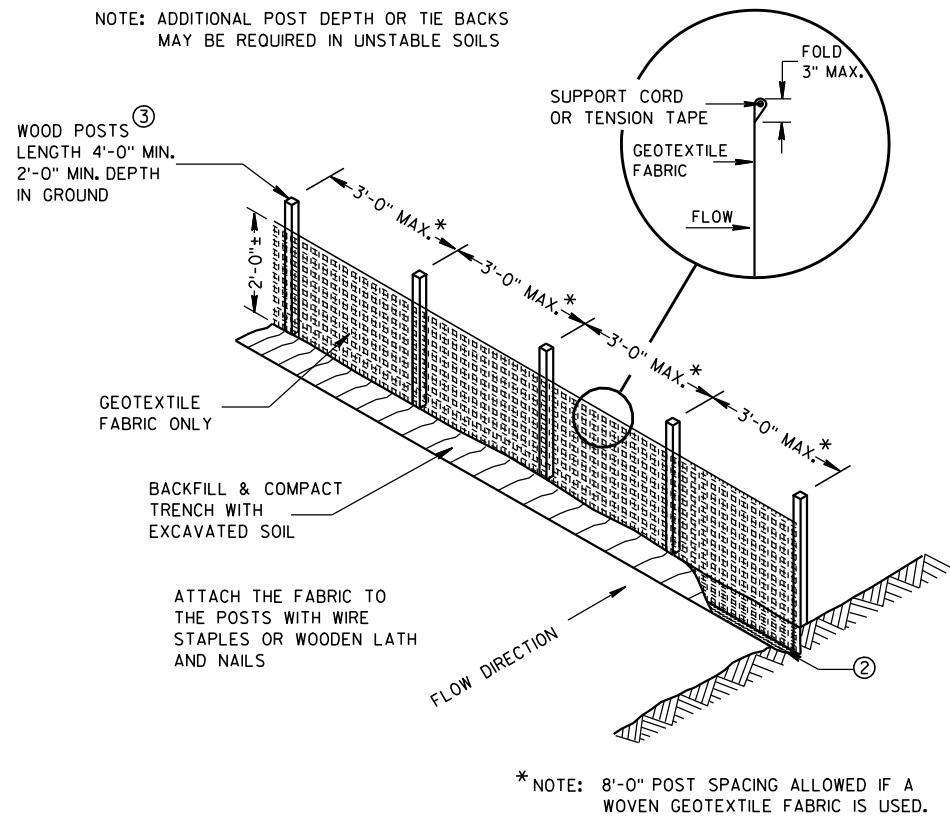
**GENERAL NOTES**

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

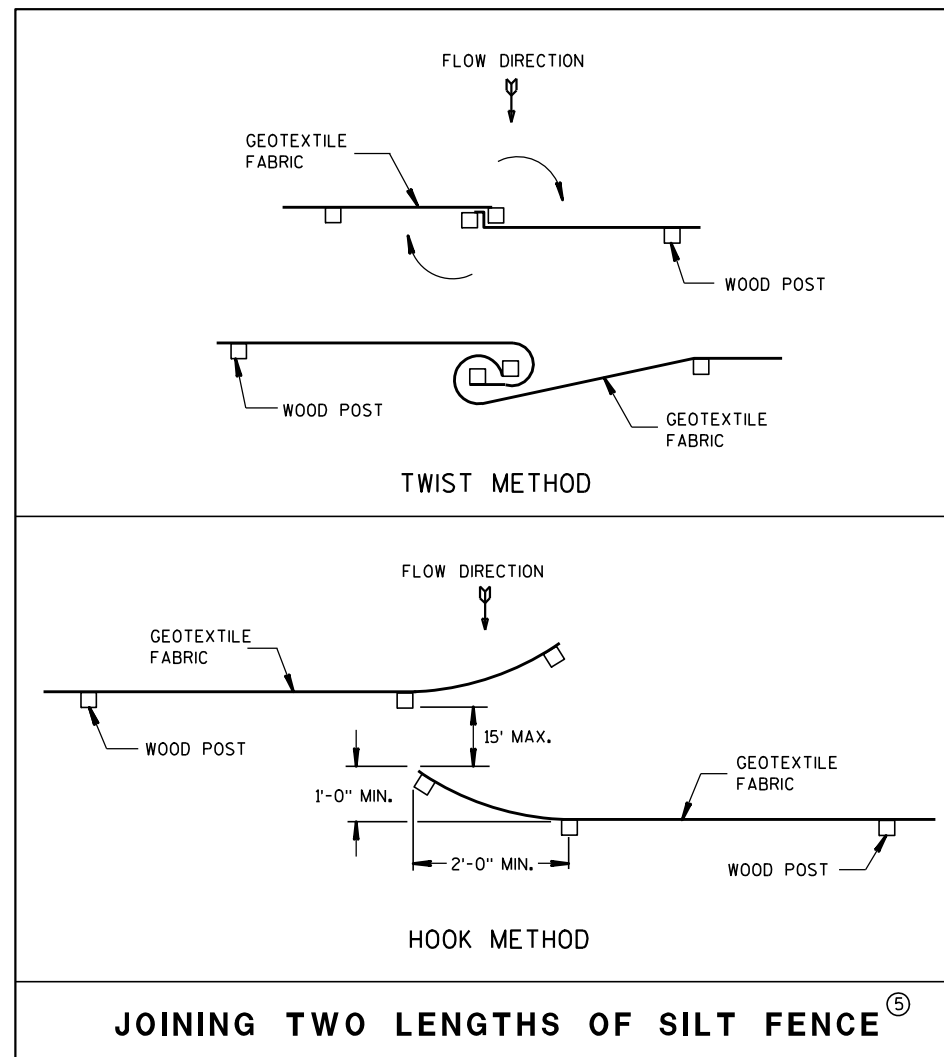
- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" 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.



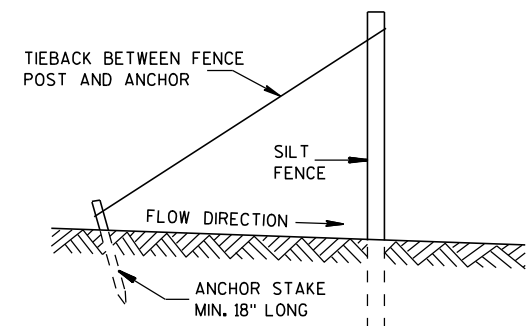
TRENCH DETAIL



SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE ⑤

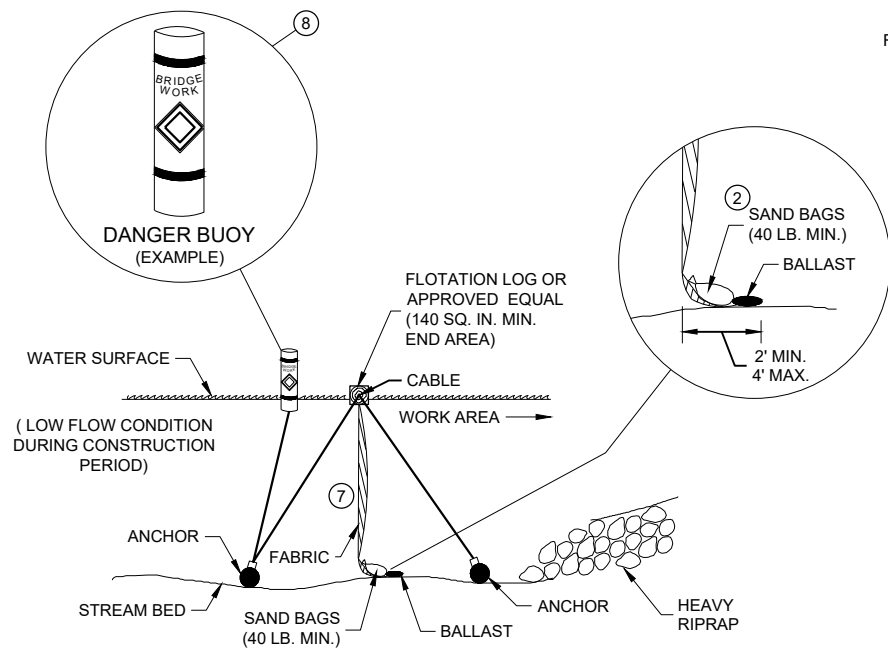


SILT FENCE TIE BACK  
(WHEN REQUIRED BY THE ENGINEER)

**SILT FENCE**

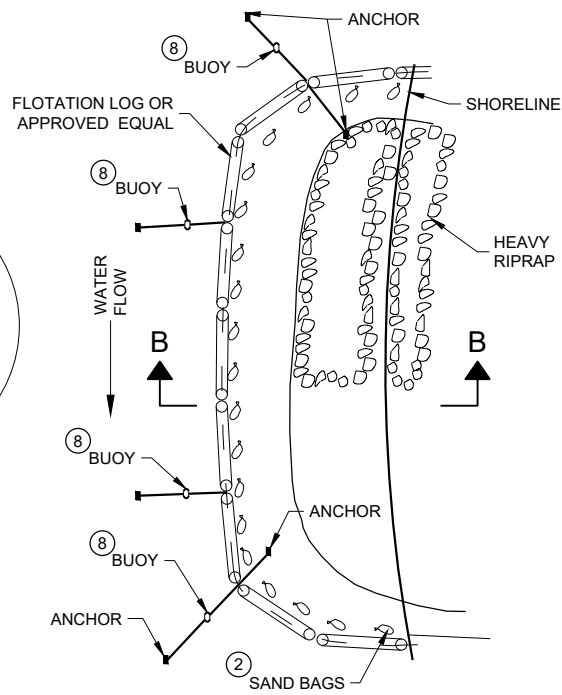
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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

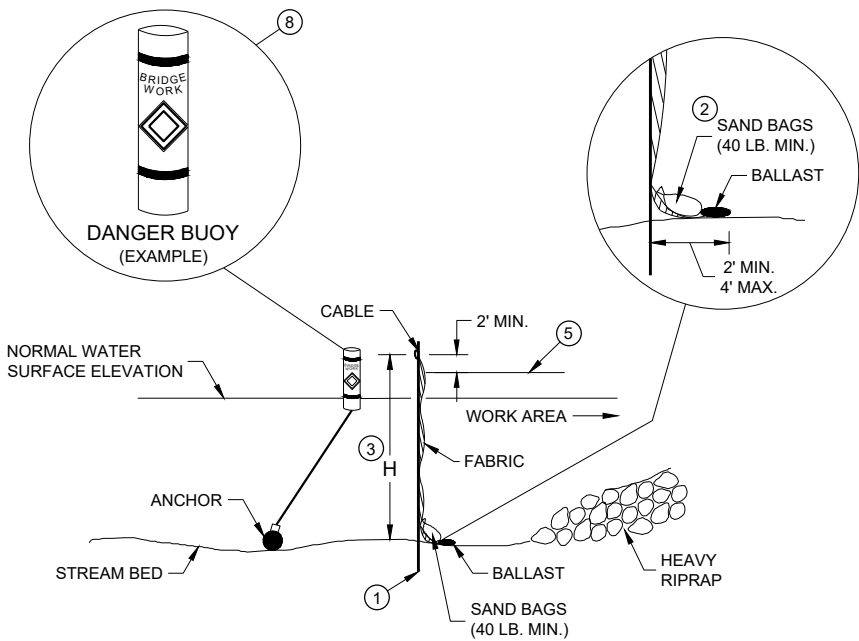


**SECTION B - B**

**TURBIDITY BARRIER - FLOAT ALTERNATIVE  
CAUTION - SEE NOTE 6**

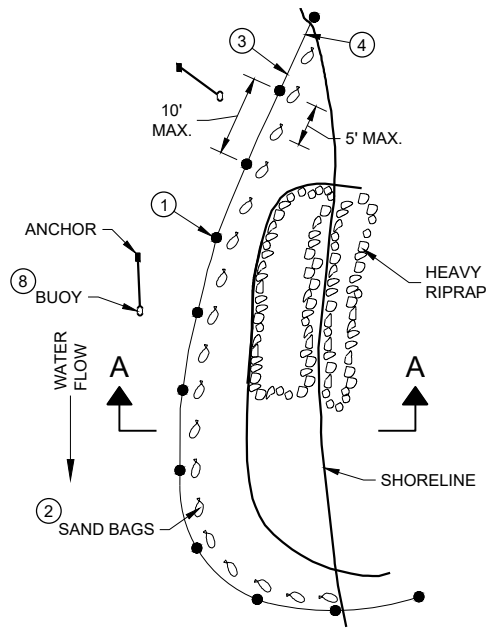


**PLAN VIEW**



**SECTION A - A**

**TURBIDITY BARRIER - STANDARD POST INSTALLATION**



**PLAN VIEW**

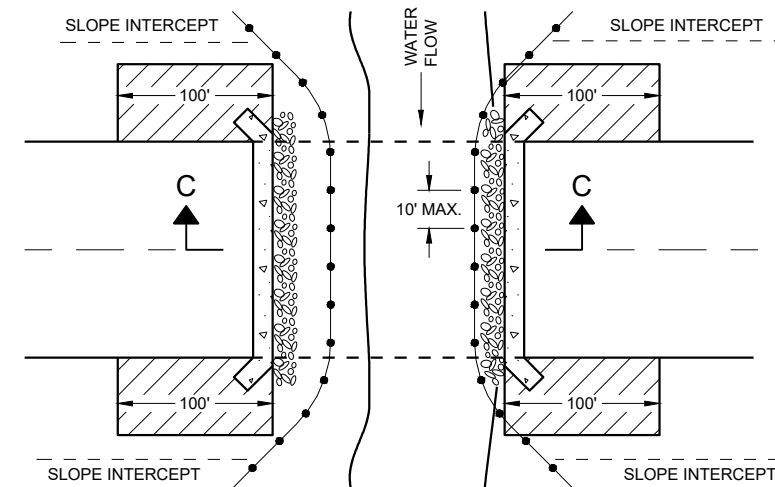
**TURBIDITY BARRIER PLACEMENT DETAILS**

**GENERAL NOTES**

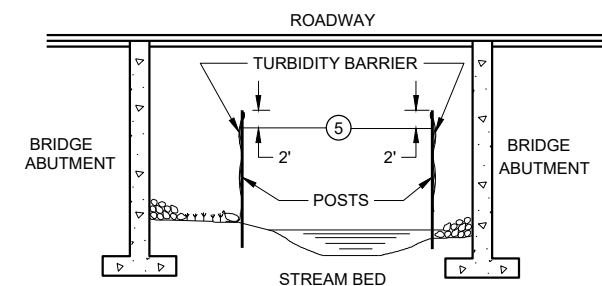
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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**

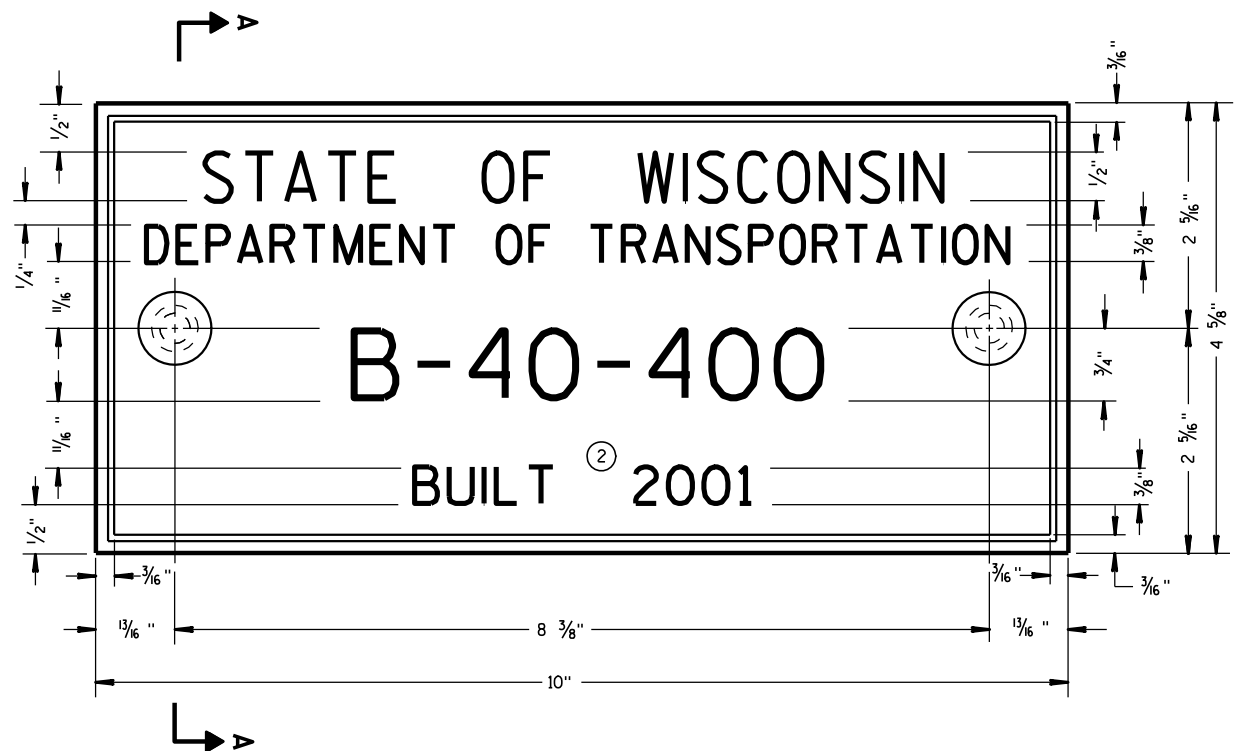
**TURBIDITY BARRIER DETAIL SHOWING  
TYPICAL PLACEMENT AT STRUCTURES**

**TURBIDITY BARRIER**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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

FHWA



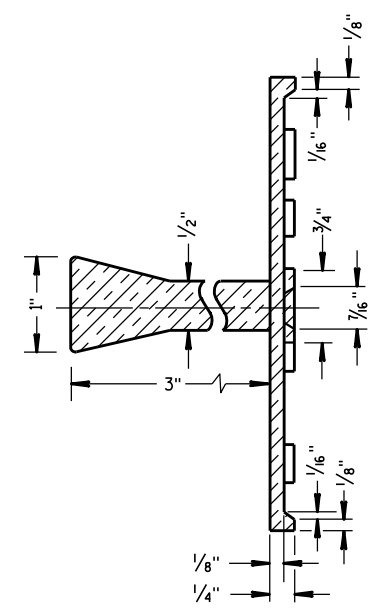
**TYPICAL NAME PLATE**  
(BRIDGES, CULVERTS, AND RETAINING WALLS)

**GENERAL NOTES**

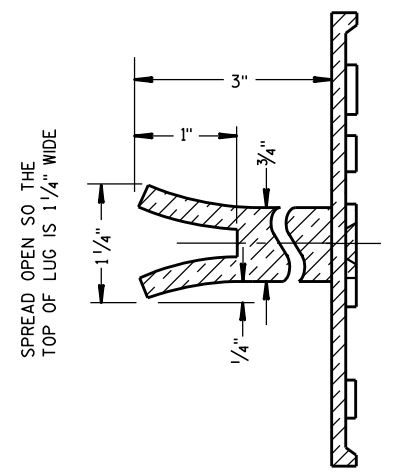
NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

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**



SPREAD OPEN SO THE TOP OF LUG IS 1 1/4" WIDE

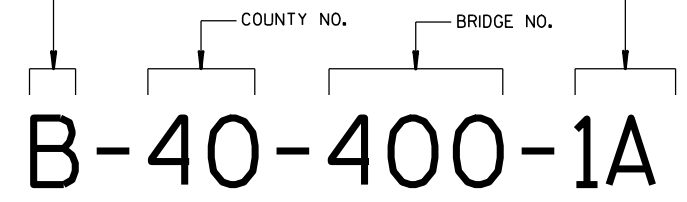
**ALTERNATE LUG**

6

6

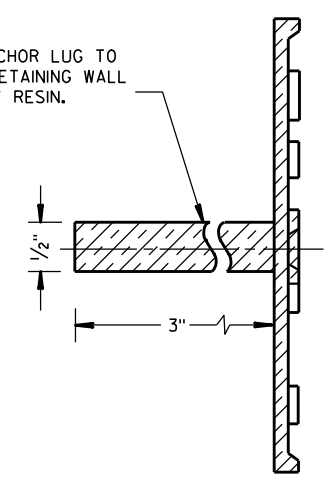
FOR MULTI-UNIT STRUCTURES  
LINE 3 ABOVE SHALL READ

- B = BRIDGE
- C = CULVERT
- R = RETAINING WALL
- UNIT NO. FOR MULTIPLE UNIT BRIDGE



**NUMBERING DESIGNATION  
MULTI-UNIT STRUCTURES**

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

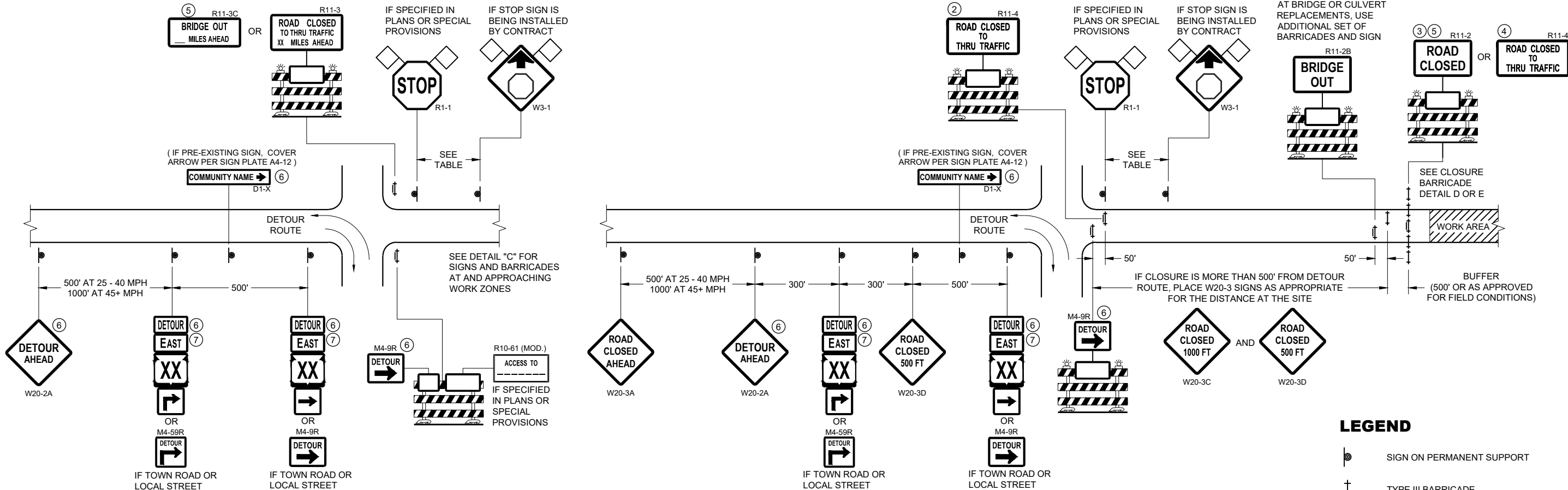


**ALTERNATE LUG**  
(FOR ATTACHMENT TO PRECAST STRUCTURES)

S.D.D. 12 A 3-10

S.D.D. 12 A 3-10

<b>NAME PLATE (STRUCTURES)</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE 3/26/10	/S/ Scot Becker CHIEF STRUCTURAL DEVELOPMENT ENGINEER
FHWA	



**DETAIL A  
MAINLINE CLOSURE WITH POSTED DETOUR**

WORK ZONE GREATER THAN OR EQUAL TO 1/2 MILE FROM  
DETOUR ROUTE ( 1000 FEET IF URBAN )

**DETAIL B  
MAINLINE CLOSURE WITH POSTED DETOUR**

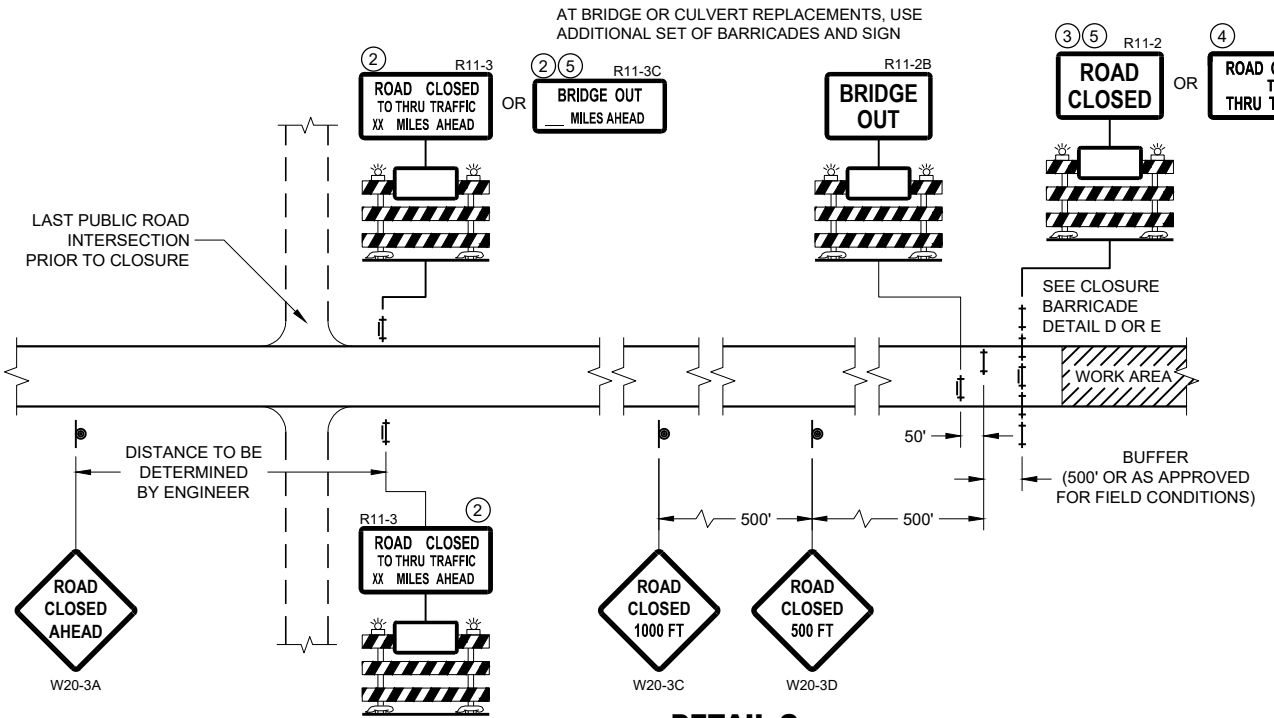
WORK ZONE LESS THAN 1/2 MILE FROM  
DETOUR ROUTE ( 1000 FEET IF URBAN )

**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)

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

- M4 - 8
- M3 - X
- M1 - 4
- M1 - 6
- M1 - 5A
- M05 - 1
- M06 - 1



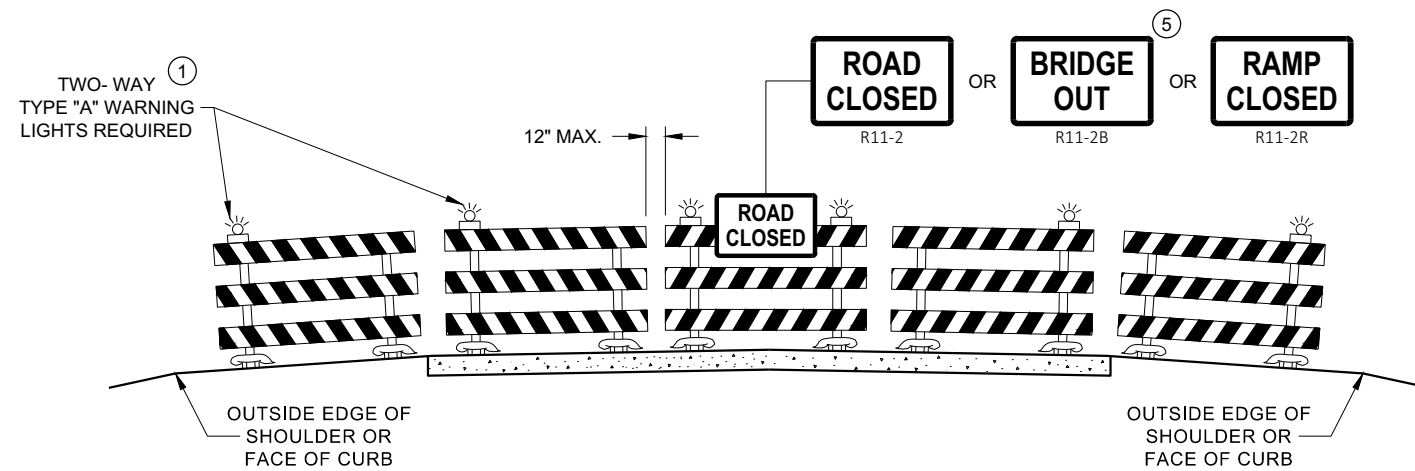
**DETAIL C  
MAINLINE CLOSURE, NO POSTED DETOUR**

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

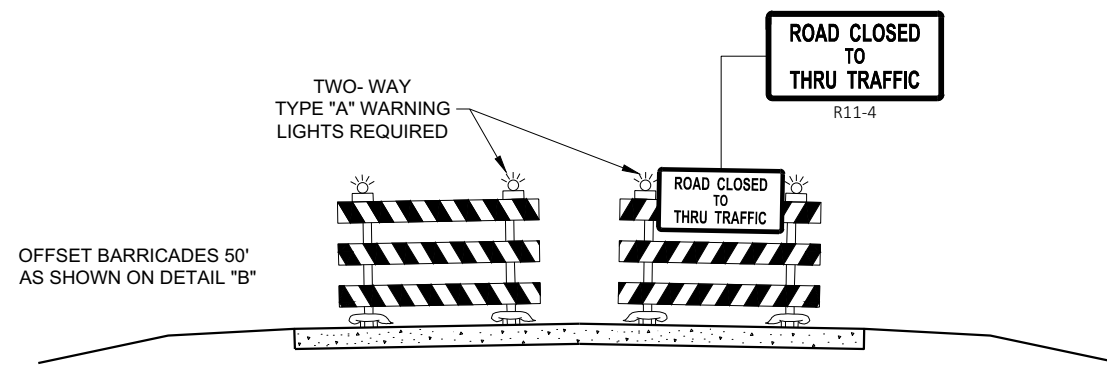
**BARRICADES AND SIGNS  
FOR MAINLINE CLOSURES**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
February 2020 /S/ Andrew Heidtke  
DATE DATE WORK ZONE ENGINEER  
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"

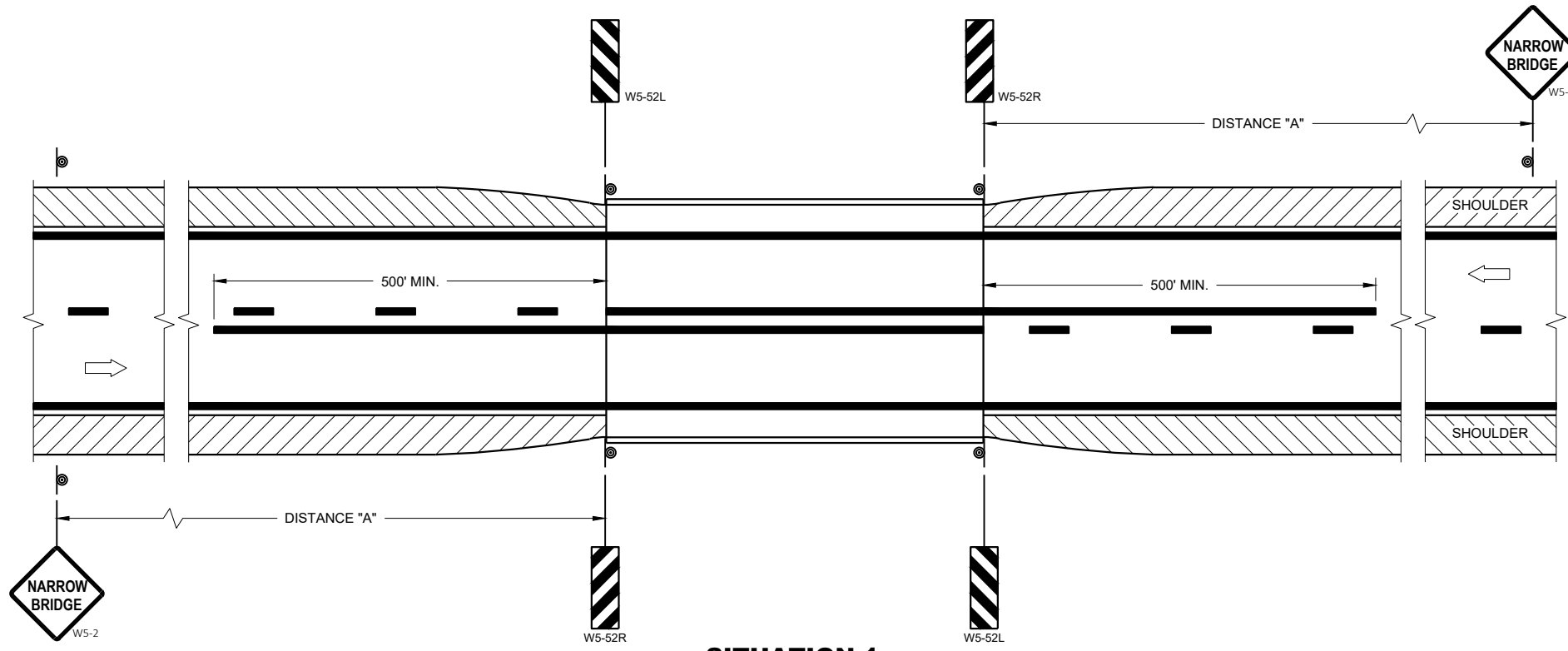
- ① TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING).
- ② THESE SIGNS 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**

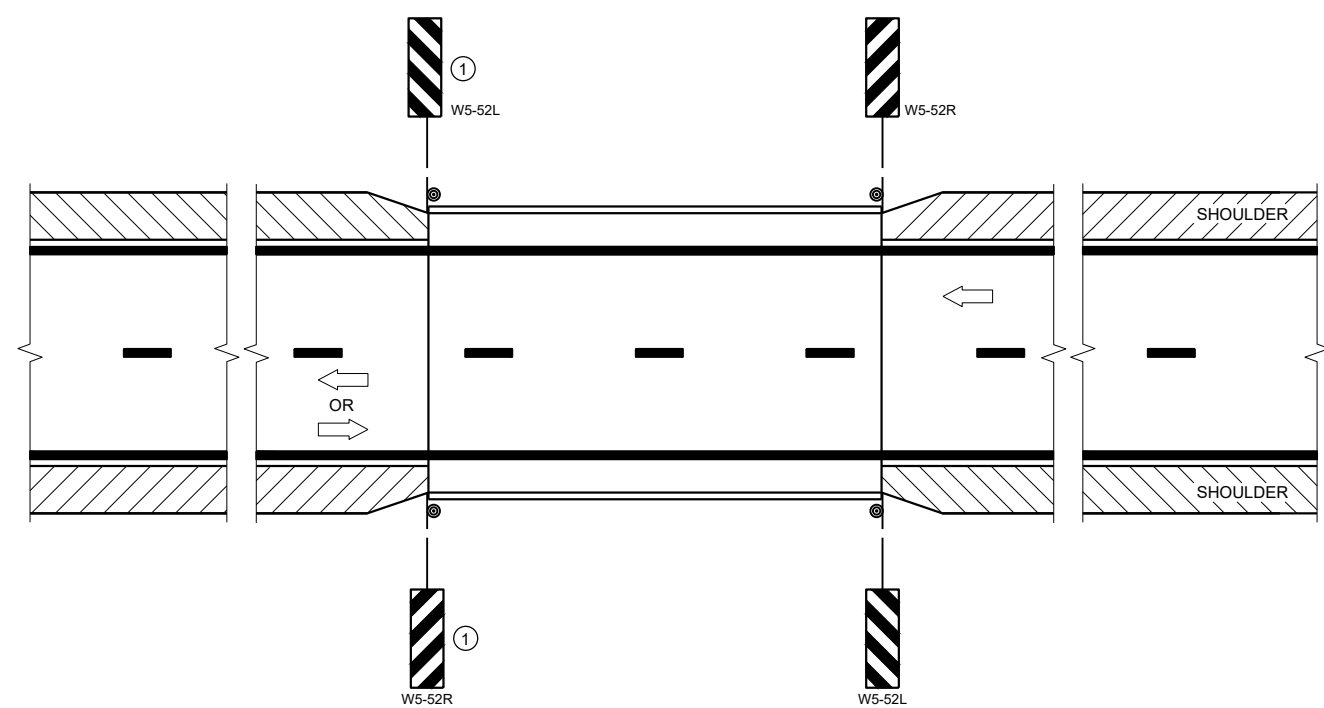
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
February 2020 /S/ Andrew Heidtke  
DATE WORK ZONE ENGINEER

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

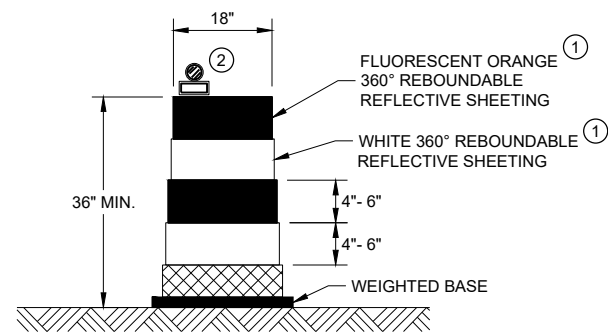
**DISTANCE TABLE**

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

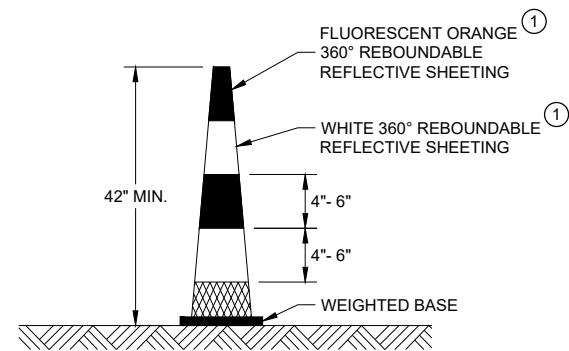
**SIGNING AND MARKING FOR TWO LANE BRIDGES**

STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION

APPROVED  
 May 2022 /S/ Jeannie Silver  
 DATE STATE SIGNING AND MARKING ENGINEER

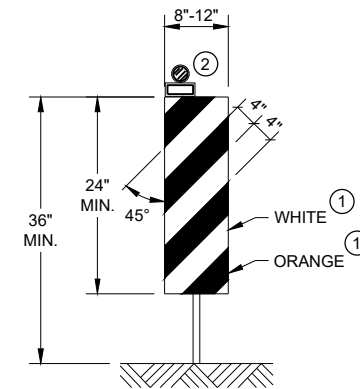


**DRUM**



**42" CONE**

DO NOT USE IN TAPERS  
 1/2 SPACING OF DRUMS

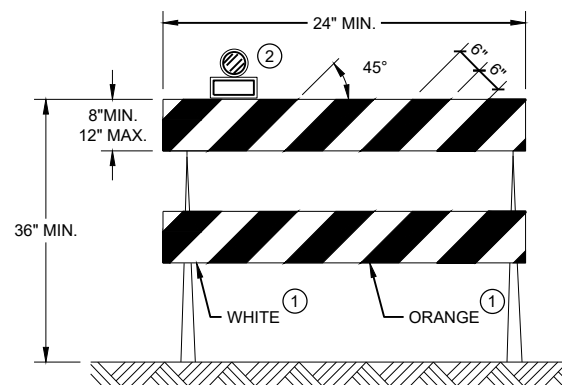


**VERTICAL PANEL**

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

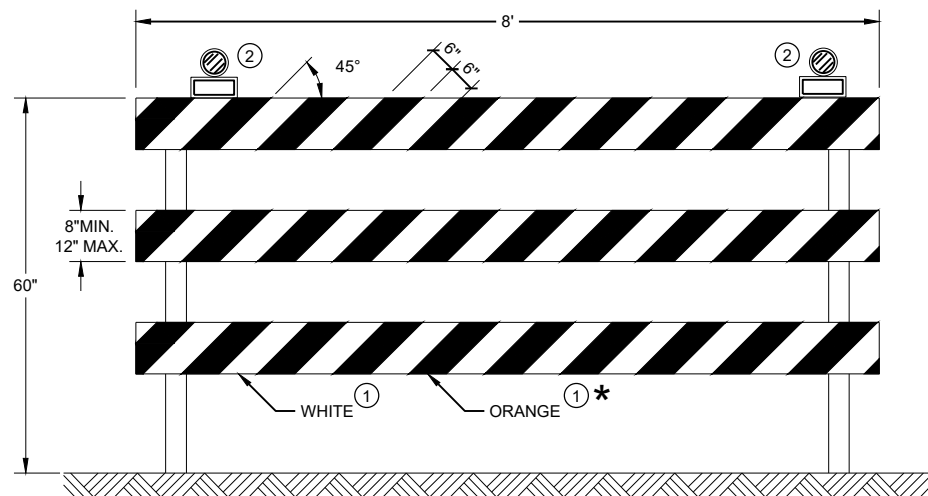
**GENERAL NOTES**

- 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.



**TYPE II BARRICADE**

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



**TYPE III BARRICADE**

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

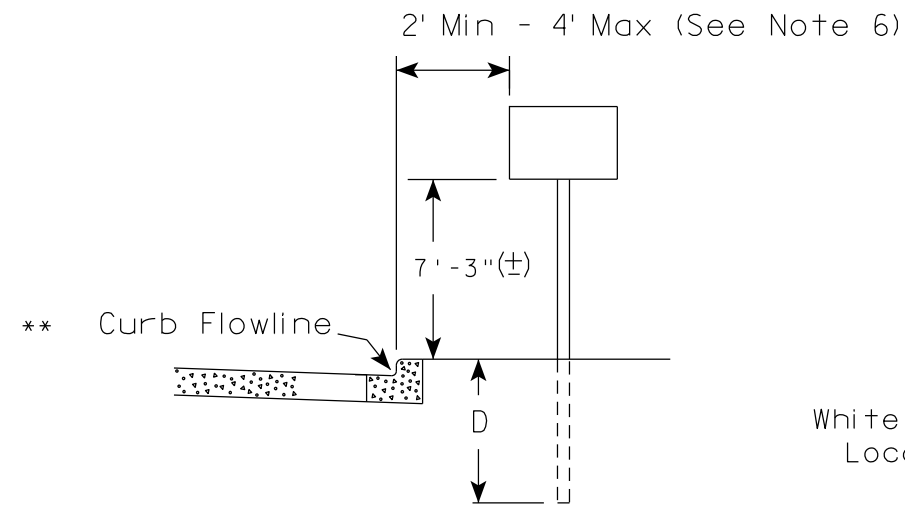
\* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

<b>CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2021 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
<small>FHWA</small>	

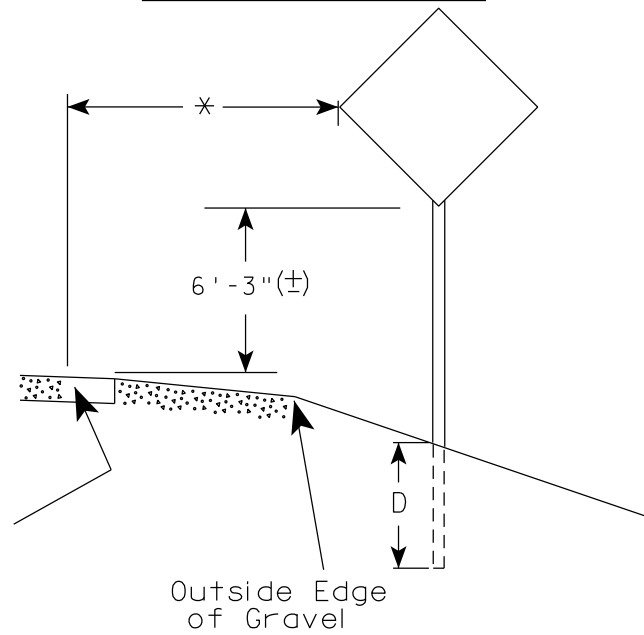


URBAN AREA

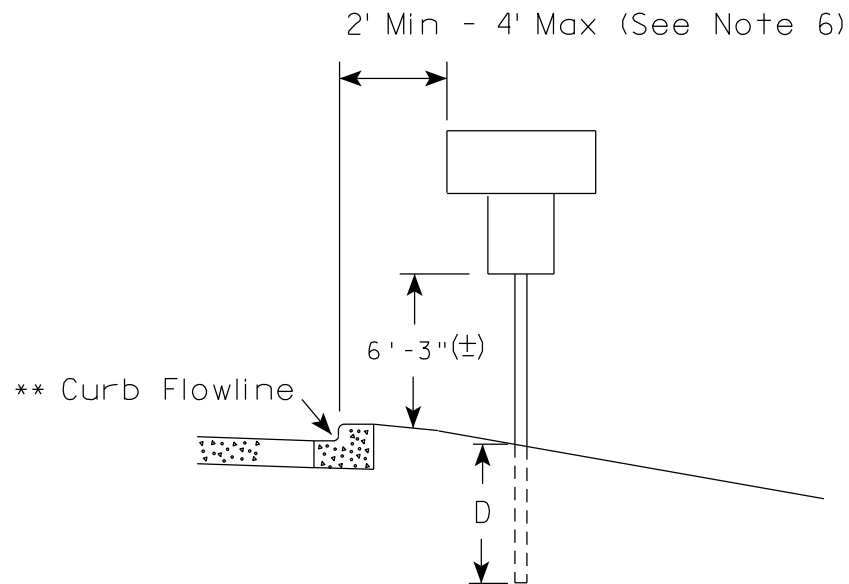
RURAL AREA (See Note 2)



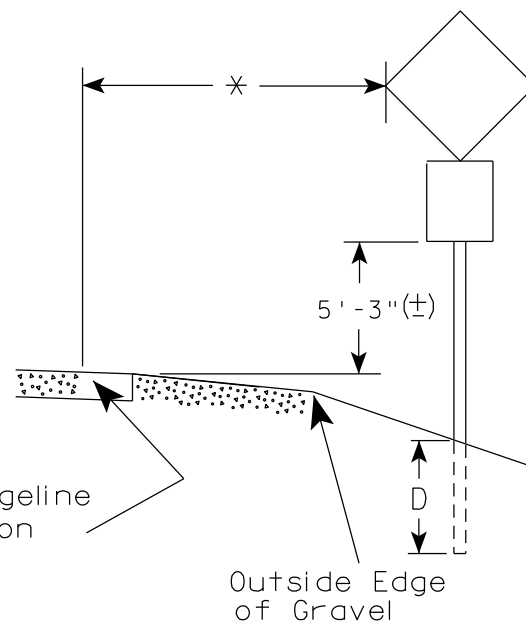
White Edgeline Location



Outside Edge of Gravel



White Edgeline Location



Outside Edge of Gravel

POST EMBEDMENT DEPTH

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

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" (±). 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. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.

7

7

\* \* 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.

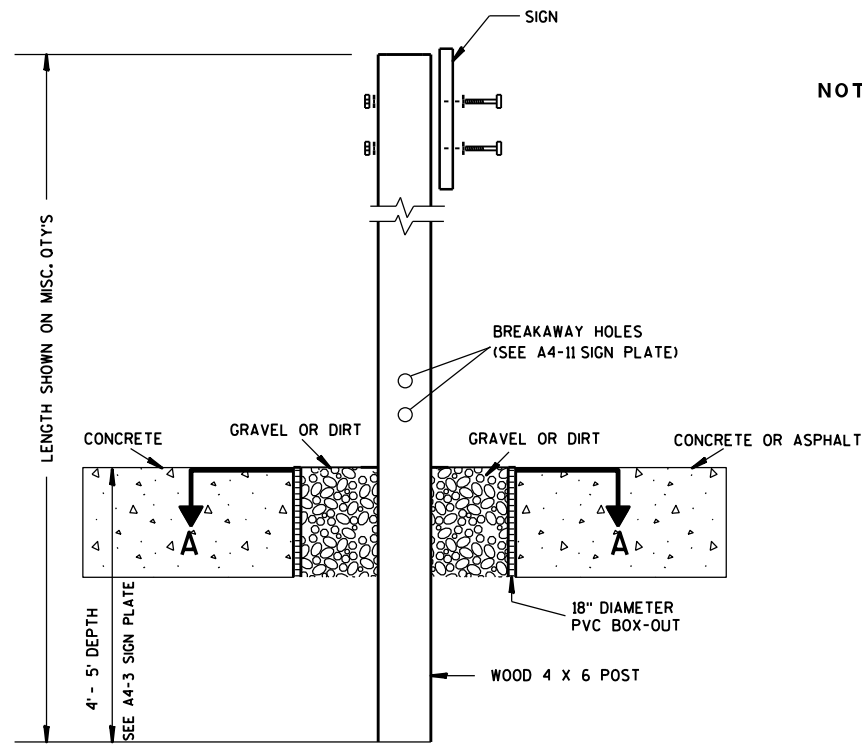
\* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

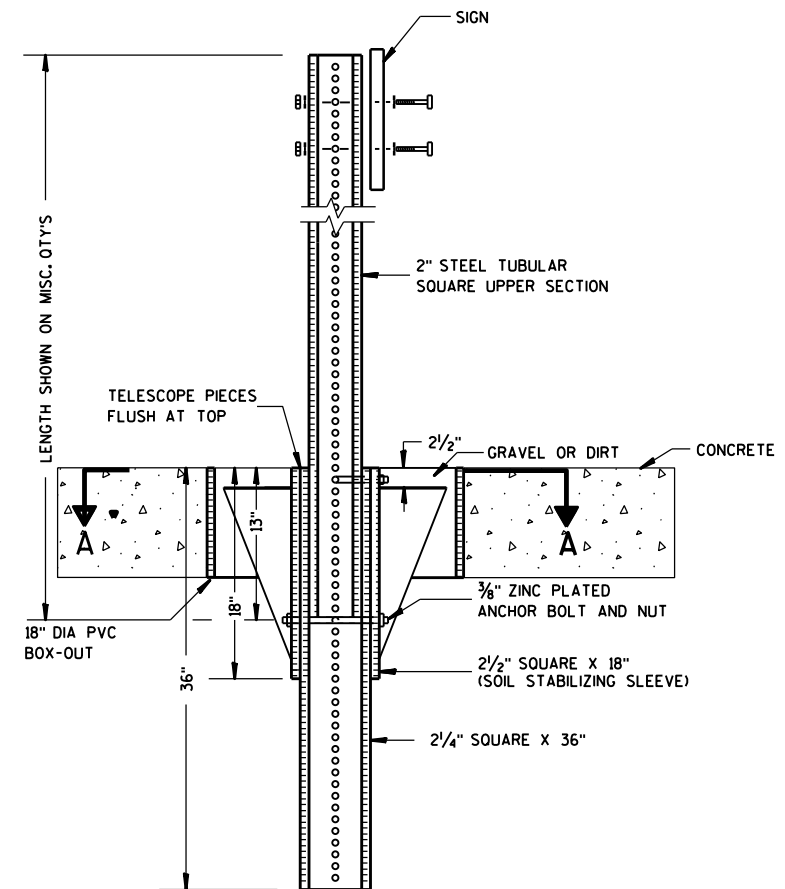
DATE 5/13/2020 PLATE NO. A4-3.22



**ELEVATION VIEW**

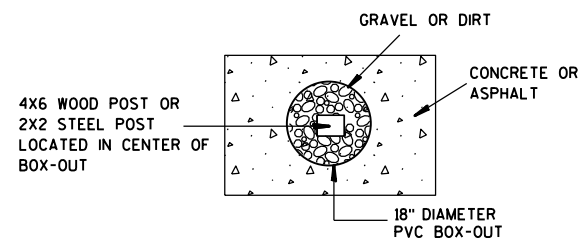
**DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT**

- 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**

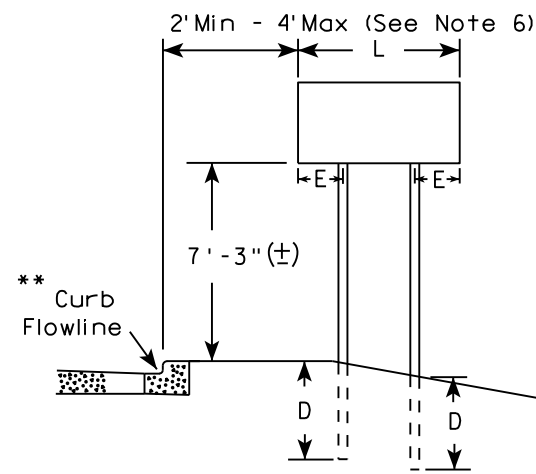
**FOR NEW CONCRETE/ASPHALT INSTALLATIONS**

<b>SIGN POST BOX-OUTS A4-3B</b>	
<small>WISCONSIN DEPT OF TRANSPORTATION</small>	
APPROVED <i>Matthew R. Rauch</i> <small>for State Traffic Engineer</small>	
<small>DATE 1/27/14</small>	<small>PLATE NO. A4-3B.1</small>

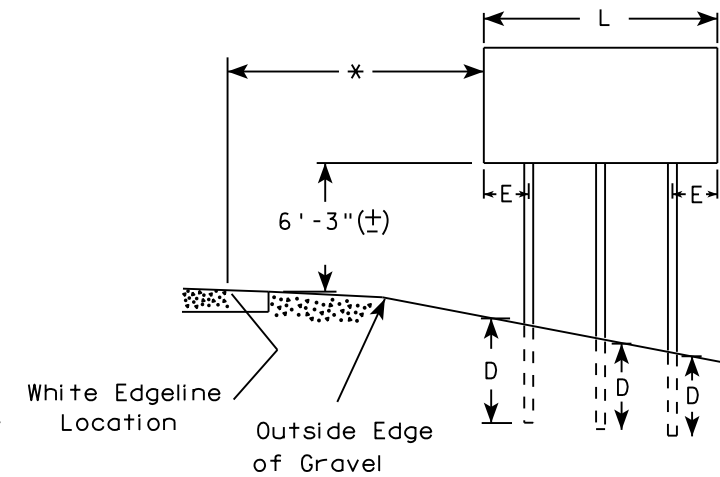
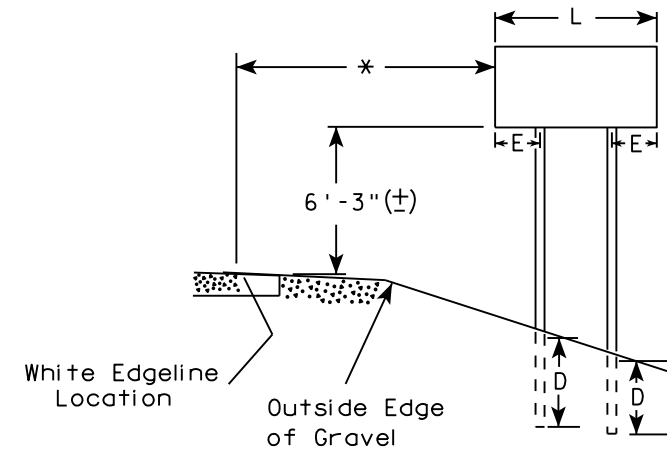
GENERAL NOTES

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" (±) or 6'-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" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-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" (±).

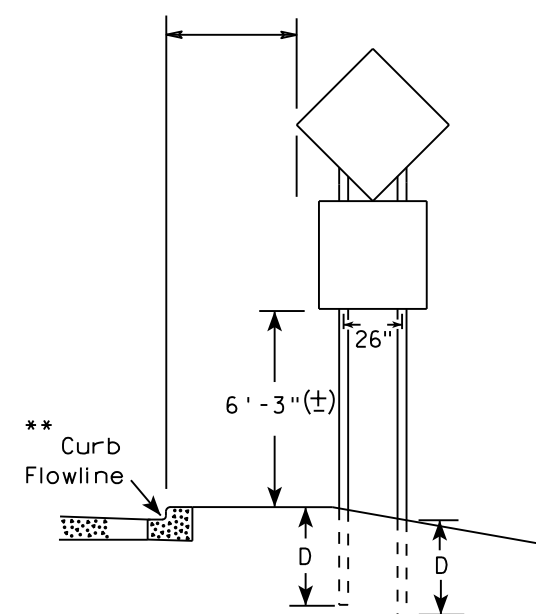
URBAN AREA



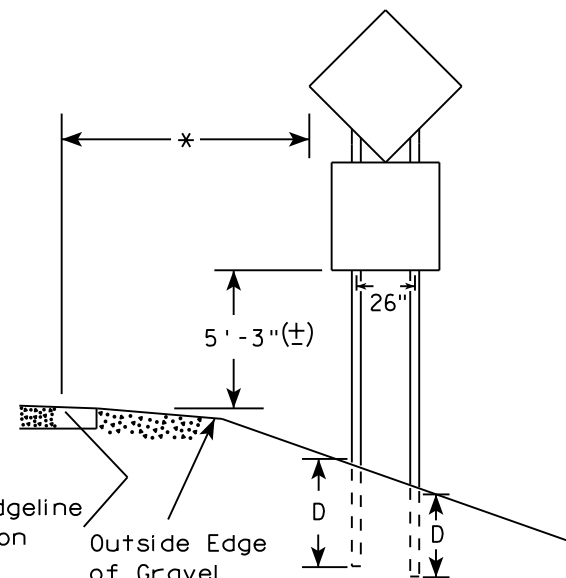
RURAL AREA (See Note 3)



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



48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

\* 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.

\*\*\* See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

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

\*\*\*

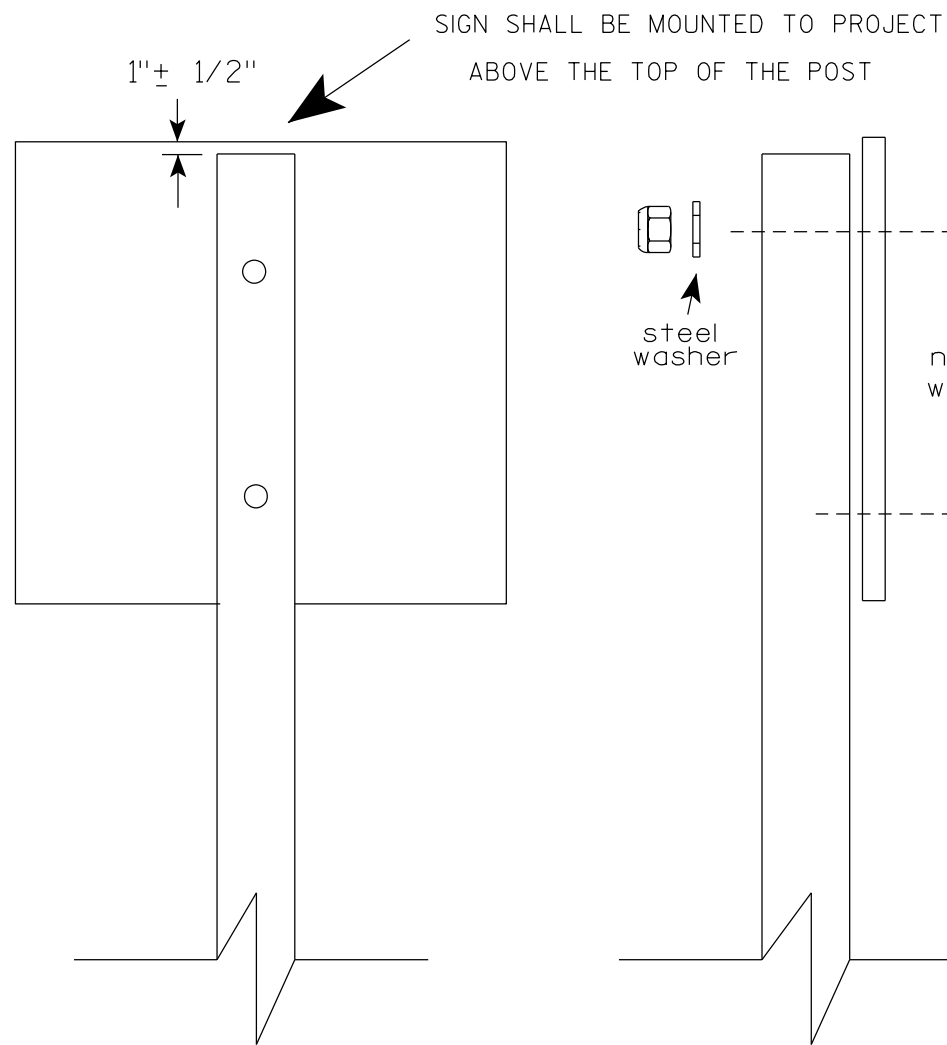
SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

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 8/21/17 PLATE NO. A4-4.15



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 - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 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 - 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 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 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

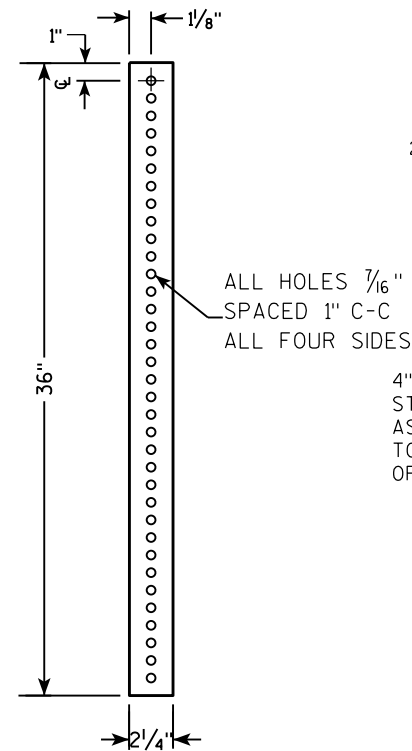
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R Rauch*  
For State Traffic Engineer

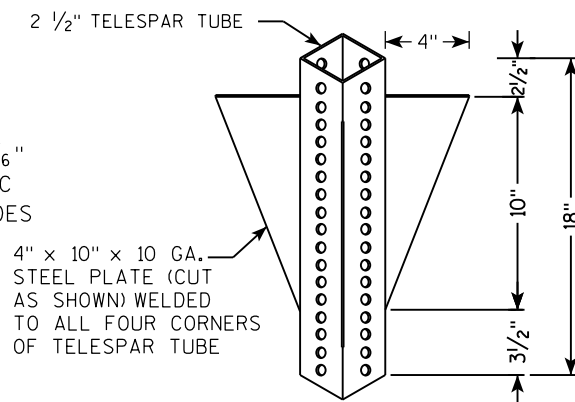
DATE 4/1/2020 PLATE NO. A4-8.9

**TELESCOPIC TUBING ANCHORS  
TWO PIECE SYSTEM**

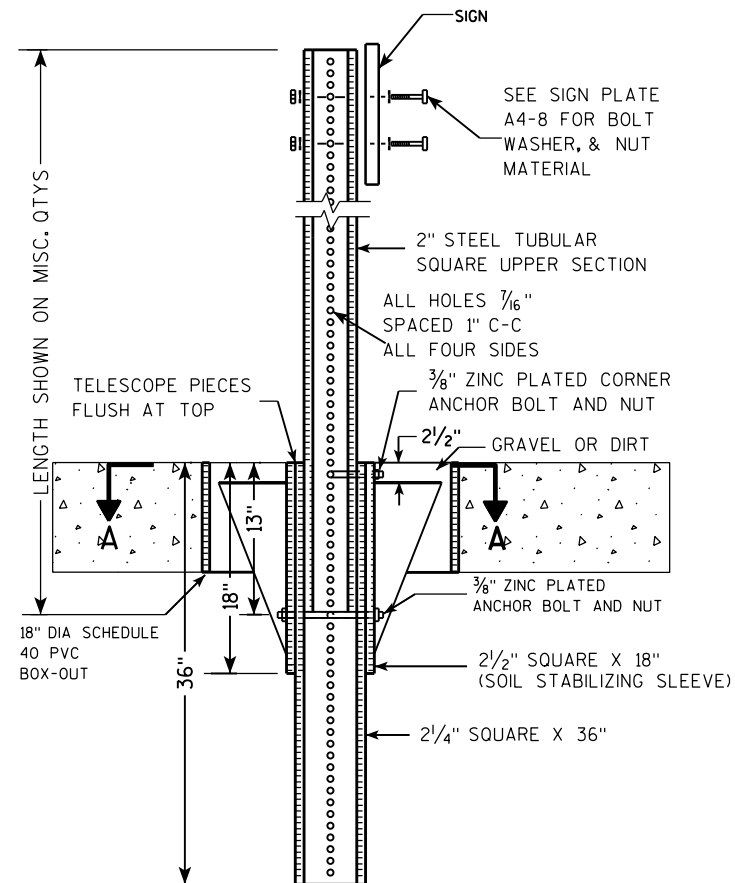
2 1/4" SQUARE  
12 GAUGE  
PERFORATED  
GALVANIZED FINISH



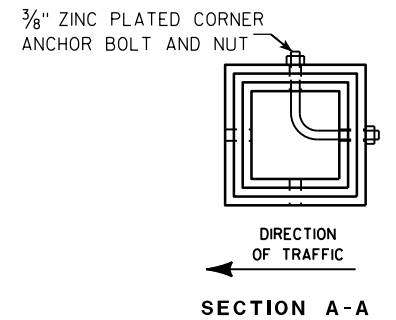
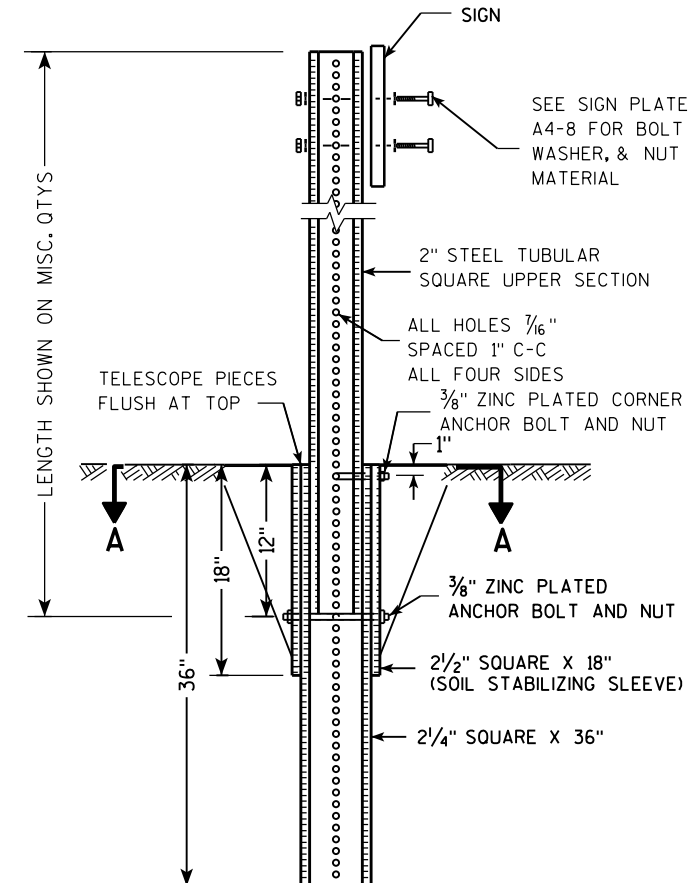
2 1/2" SQUARE  
12 GAUGE  
OMNI-DIRECTIONAL  
PERFORATED  
SOIL STABILIZING SLEEVE  
GALVANIZED FINISH



**DETAIL OF TUBULAR STEEL SIGN POST  
(IN POURED CONCRETE OR ASPHALT)**



**DETAIL OF TUBULAR STEEL SIGN POST  
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)**



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

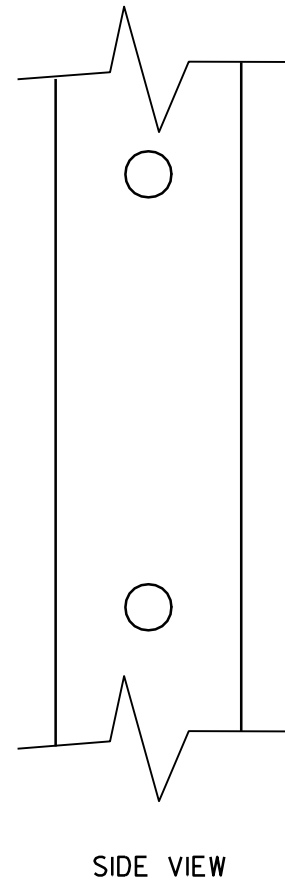
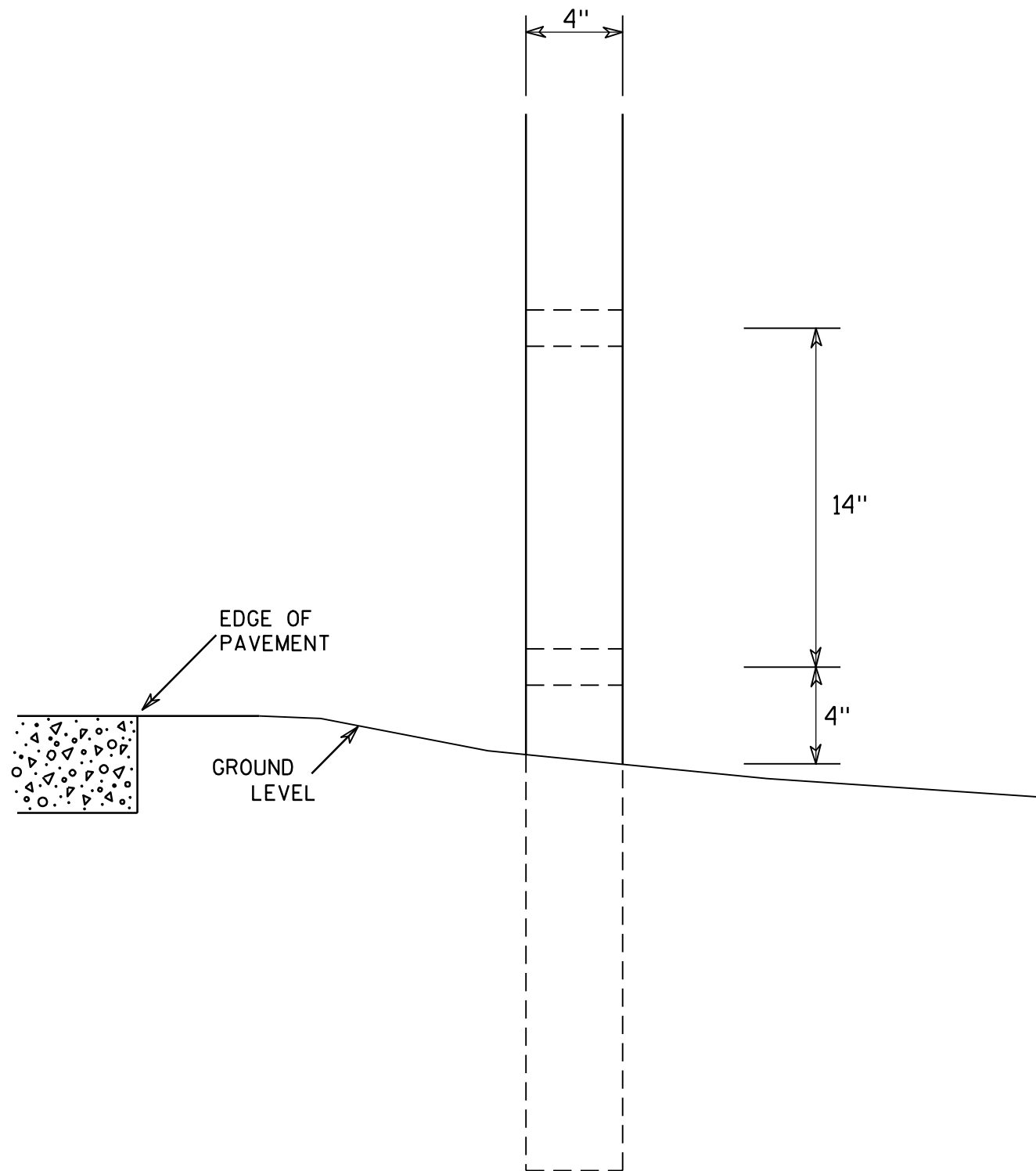
Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

**TUBULAR STEEL  
SIGN POST  
A4-9**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 2/05/15 PLATE NO. A4-9.9



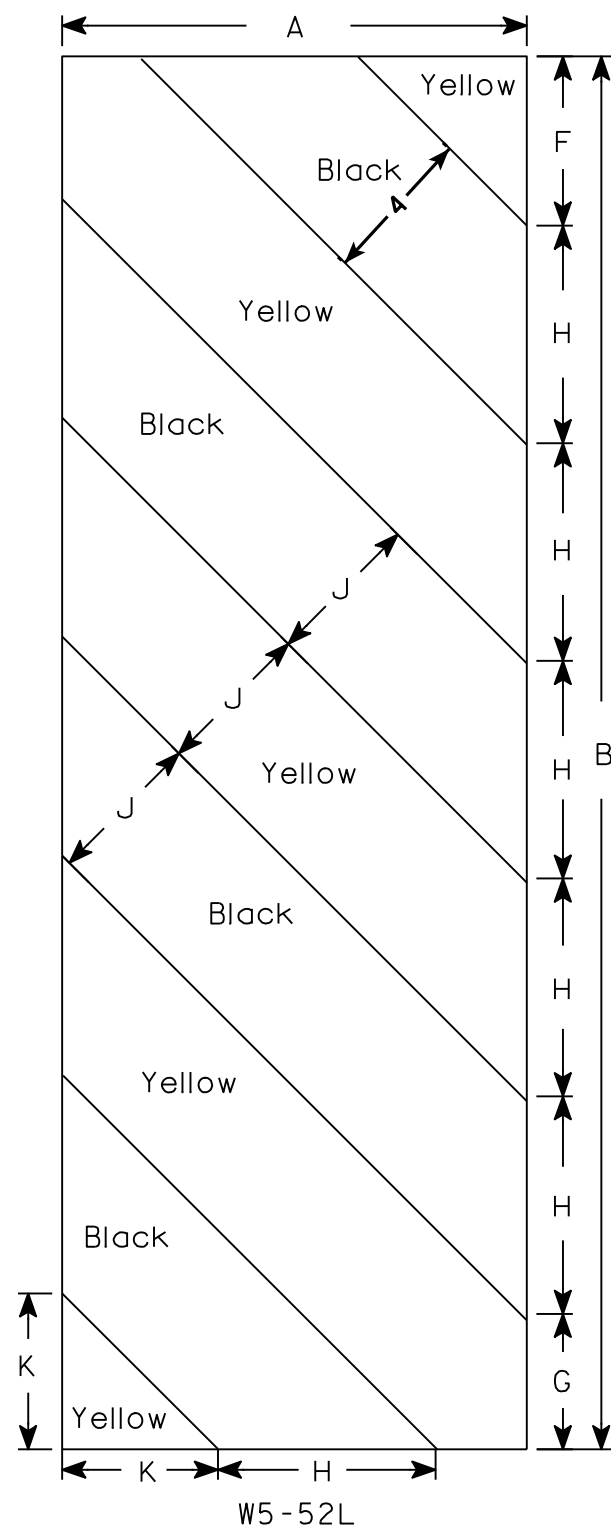
GENERAL NOTES

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

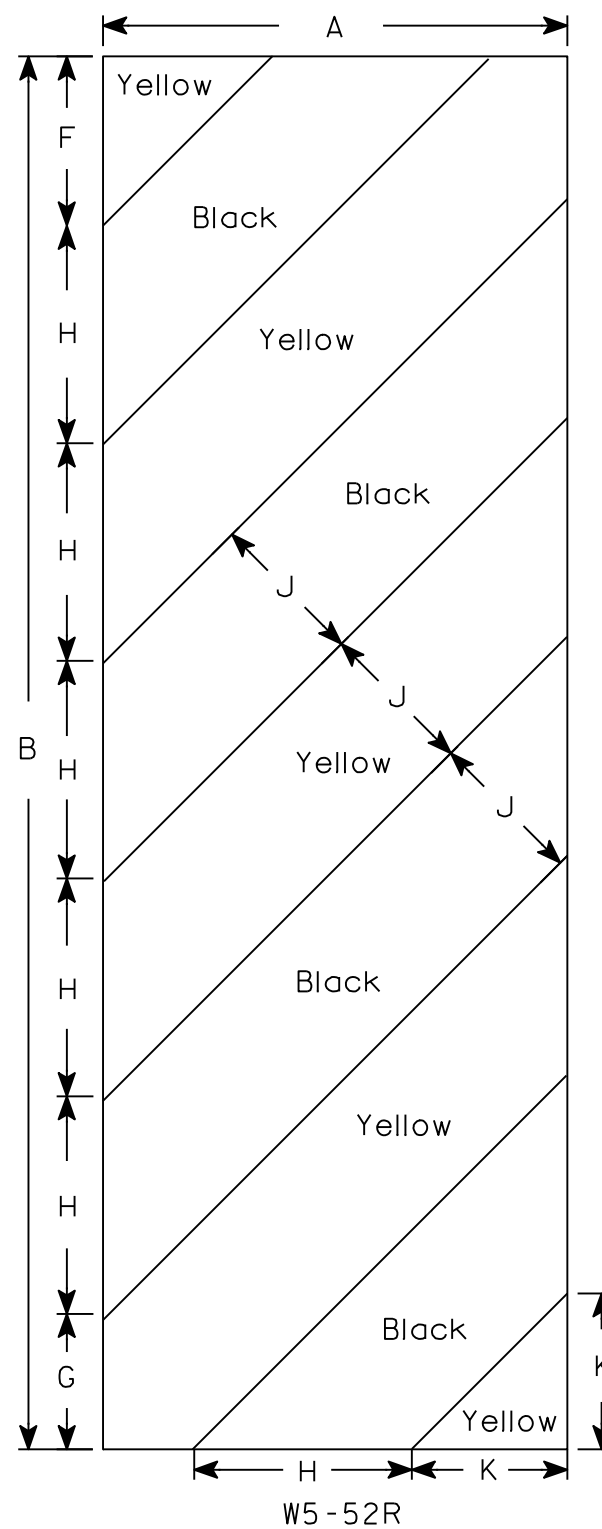
7

7

<b>4 X 6 WOOD POST MODIFICATIONS</b>	
<i>WISCONSIN DEPT OF TRANSPORTATION</i>	
APPROVED	<i>Chester J Spang</i> for State Traffic Engineer
DATE <u>3/27/97</u>	PLATE NO. <u>A4-11.2</u>



W5-52L



W5-52R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - Yellow  
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Alternate colors of stripes as shown.

7

7

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				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				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

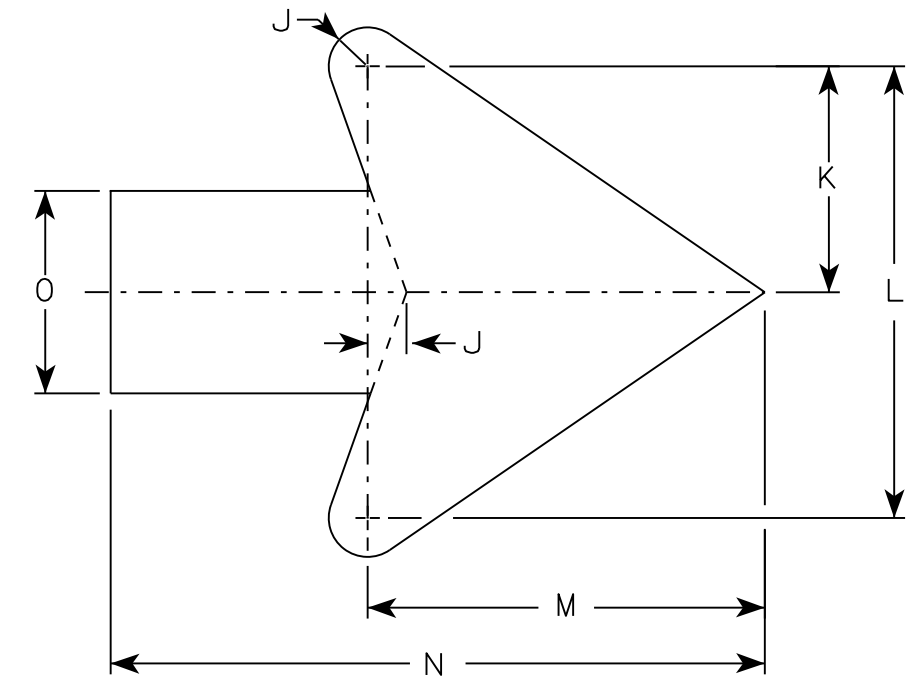
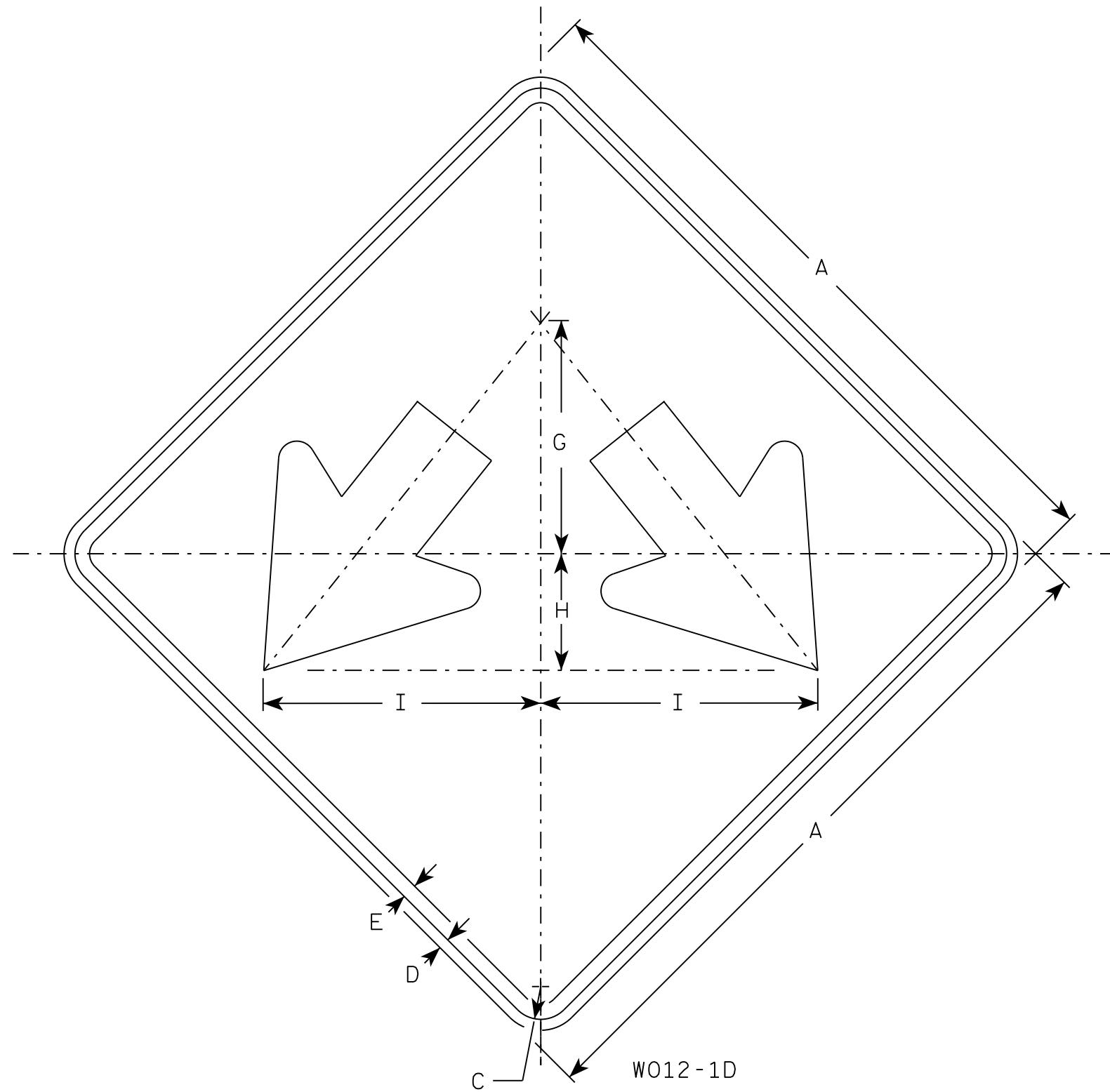
APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

PROJECT NO: \_\_\_\_\_ HWY: \_\_\_\_\_ COUNTY: \_\_\_\_\_ SHEET NO: \_\_\_\_\_ E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:  
Background - Orange  
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

7

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	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0

STANDARD SIGN  
W012-1D

WISCONSIN DEPT OF TRANSPORTATION

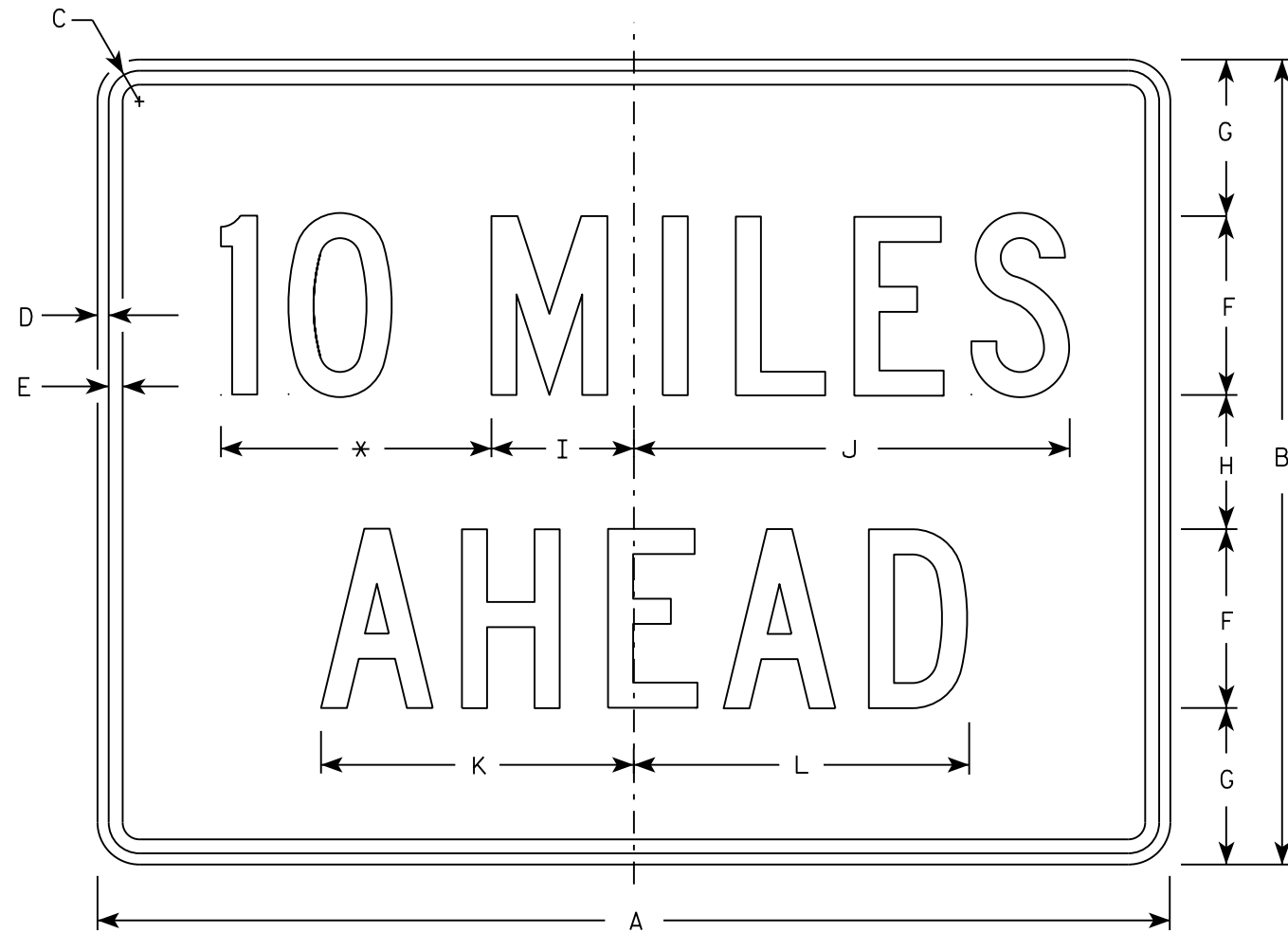
APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 7/28/16 PLATE NO. W012-1D.2

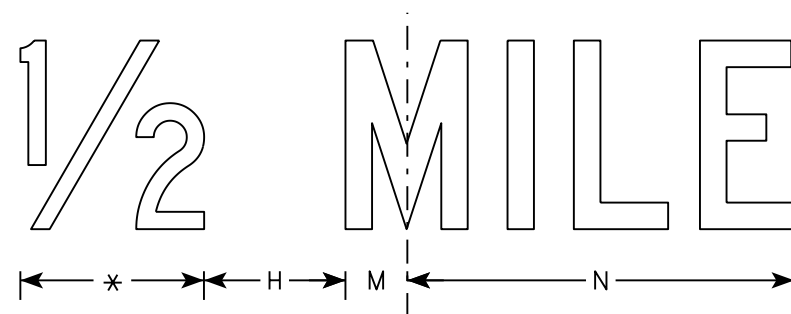


NOTES

1. Sign is Type II - Type F Reflective
2. Color:  
Background - Orange  
Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to the nearest quarter mile and optically adjust spacing to achieve proper balance.



W057-52



\* See note 5

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	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	12													6.0
2S	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
2M	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
3	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
5	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0

STANDARD SIGN  
W057-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED  
*Matthew R. Rauch*  
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W057-52.2

PROJECT NO: \_\_\_\_\_ HWY: \_\_\_\_\_ COUNTY: \_\_\_\_\_ SHEET NO: **E**

**DESIGN DATA**

LIVE LOAD: \_\_\_\_\_  
 DESIGN LOADING \_\_\_\_\_ HL-93  
 INVENTORY RATING FACTOR \_\_\_\_\_ 1.15  
 OPERATIONAL RATING FACTOR \_\_\_\_\_ 1.50  
 WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) \_\_\_\_\_ 250 KIPS

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 PSF.

**MATERIAL PROPERTIES**

CONCRETE MASONRY, SUPERSTRUCTURE \_\_\_\_\_  $f'_c = 4,000$  PSI  
 ALL OTHER \_\_\_\_\_  $f'_c = 3,500$  PSI  
 HIGH STRENGTH BAR STEEL REINFORCEMENT \_\_\_\_\_  $f_y = 60,000$  PSI

**TRAFFIC DATA**

ADT (2023) = <100  
 ADT (2043) = <100  
 DESIGN SPEED = 45 MPH

**FOUNDATION DATA**

ABUTMENTS TO BE SUPPORTED ON HP 10-INCH X 42 LB STEEL PILING SEATED IN PRE-BORED HOLES CORED A MINIMUM OF 3' INTO BEDROCK. ESTIMATED 20' LONG AT BOTH ABUTMENTS.

PRE-BORING SHALL BE REQ'D TO A MINIMUM ELEVATION OF 1265.0 AT BOTH ABUTMENTS.

PILES PLACED IN PRE-BORED HOLES CORED INTO BEDROCK DO NOT REQUIRE DRIVING. PILING SHALL BE FIRMLY SEATED AFTER PLACEMENT. THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS 180 TONS MULTIPLIED BY A RESISTANCE FACTOR OF 0.5.

**HYDRAULIC DATA**

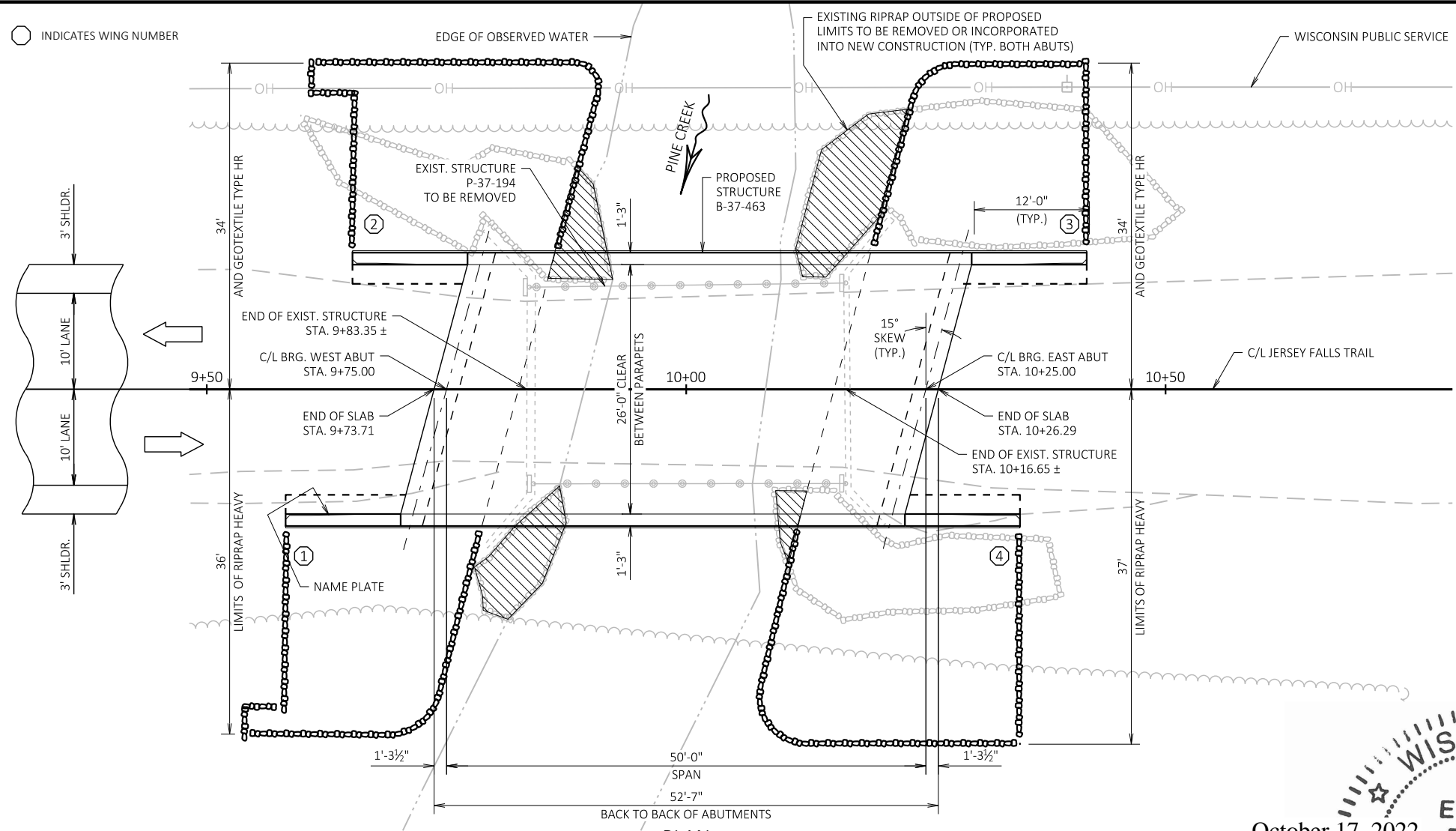
**100 YEAR FREQUENCY**  
 $Q_{100} = 1,975$  C.F.S.  
 VEL. = 8.9 F.P.S.  
 HW<sub>100</sub> = EL. 1290.80  
 WATERWAY AREA = 222 SQ. FT.  
 DRAINAGE AREA = 2.8 SQ. MI.  
 SCOUR CRITICAL CODE = 5  
 OVERTOPPING FREQUENCY = NA

**2 YEAR FREQUENCY**

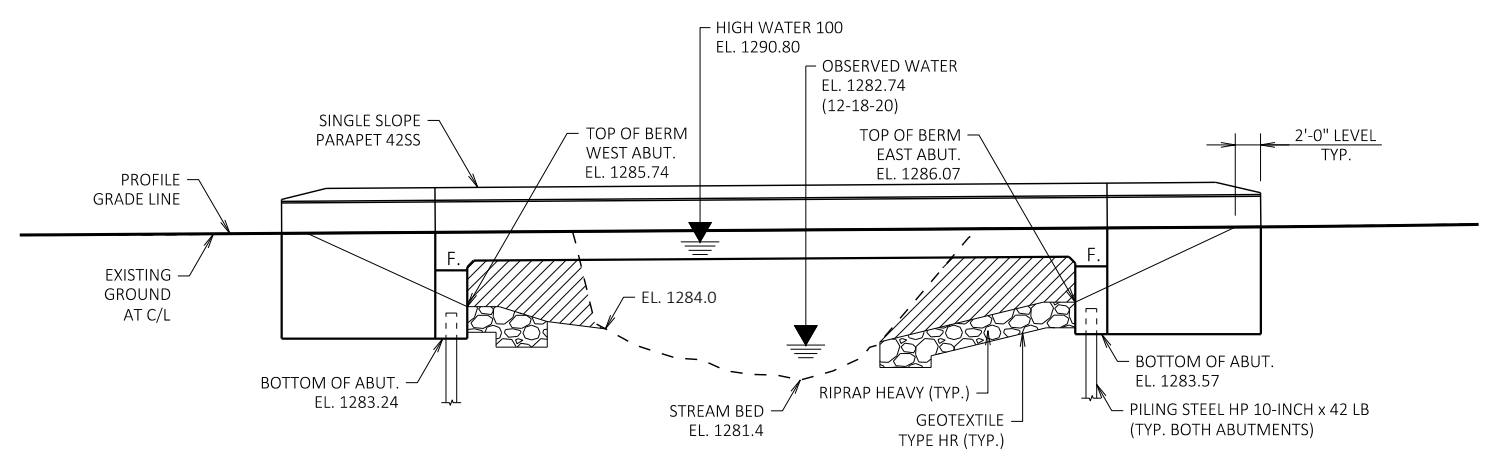
$Q_2 = 350$  C.F.S.  
 VEL. = 4.2 F.P.S.  
 HW<sub>2</sub> = EL. 1286.04

**LIST OF DRAWINGS**

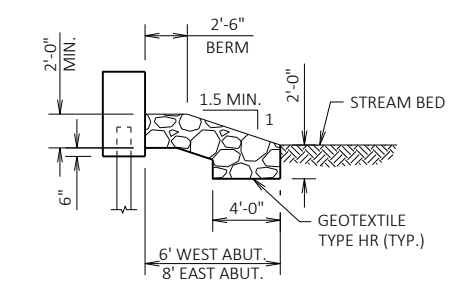
1. GENERAL PLAN
2. CROSS SECTION & QUANTITIES
3. SUBSURFACE EXPLORATION
4. WEST ABUTMENT
5. WEST ABUTMENT DETAILS
6. EAST ABUTMENT
7. EAST ABUTMENT DETAILS
8. SUPERSTRUCTURE
9. SUPERSTRUCTURE DETAILS
10. SINGLE SLOPE PARAPET 42SS



**PLAN**  
(SINGLE SPAN CONCRETE FLAT SLAB BRIDGE)



**ELEVATION**  
(LOOKING NORTH)



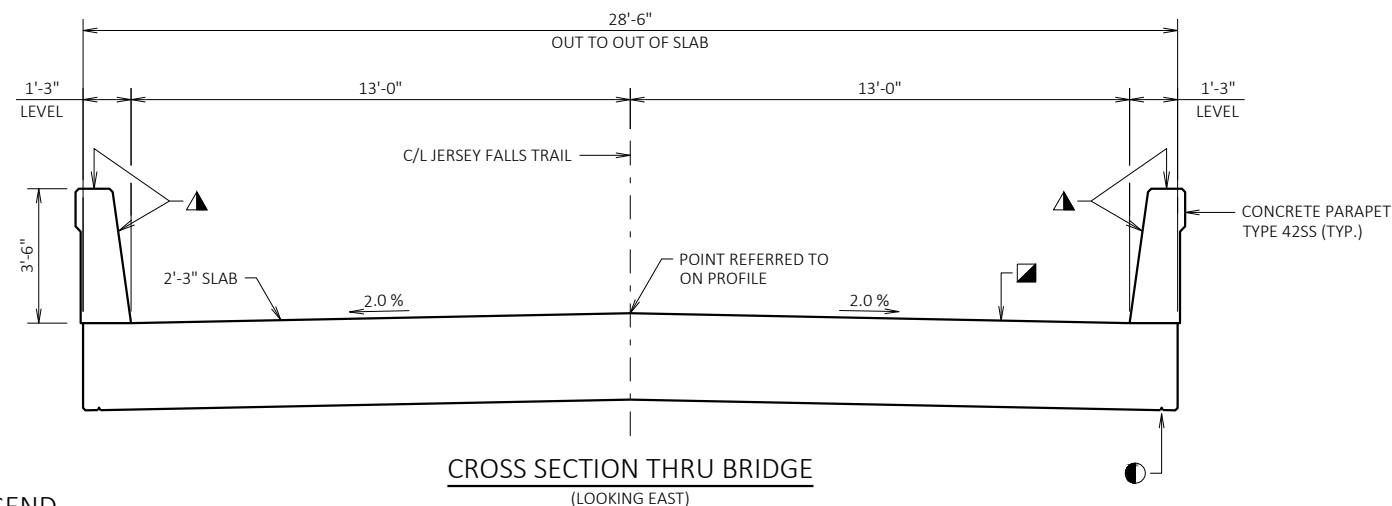
**RIPRAP DETAIL**  
(FILL VOIDS WITH SELECT CRUSHED MATERIAL)

AREA TO EXCAVATE INCLUDED IN "EXCAVATION FOR STRUCTURES BRIDGES B-37-463"

**BENCH MARKS**

NO.	STATION	DESCRIPTION	ELEV.
BM 3	13+66.94	6" NAIL IN POWER POLE, 31.07' LT.	1312.33
BM 4	7+39.67	6" NAIL IN 14" PINE, 45.38' LT.	1302.09

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED		DATE	BY
		11/21/22	SPR
<b>STRUCTURE B-37-463</b> JERSEY FALLS TRAIL OVER PINE CREEK			
COUNTY	MARATHON	TOWN/VILLAGE	T RIB FALLS
BRIDGE OFFICE CONTACT AARON BONK, P.E. TELEPHONE: (608) 261-0261			
CONSULTANT CONTACT ERIC PRICE, P.E. TELEPHONE: (608) 826-6146			
<b>GENERAL PLAN</b>			SHEET 1 OF 10



**GENERAL NOTES**

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION M153 TYPE I, II OR III OR AASHTO DESIGNATION M213.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY, SELECT CRUSHED MATERIAL AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON THE GENERAL PLAN SHEET AND IN THE ABUTMENT DETAILS, OR AS DIRECTED BY THE ENGINEER.

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

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-37-463" SHALL BE THE EXISTING GROUNDLINE.

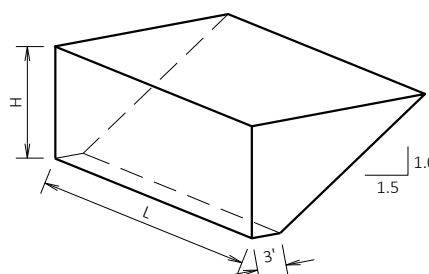
THE EXISTING STRUCTURE P-37-194, TO BE REMOVED, IS A SINGLE SPAN STEEL DECK GIRDER BRIDGE, 33.3 FT. LONG WITH A 19.1 FT. CLEAR ROADWAY WIDTH.

THE BACKFILL QUANTITIES ARE BASED ON THE LIMITS SHOWN ON THIS SHEET AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO "EXCAVATION FOR STRUCTURES BRIDGES B-37-463".

PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE ENTIRE INSIDE FACE AND TOP SURFACE OF THE PARAPETS ON THE STRUCTURE AND WINGS.

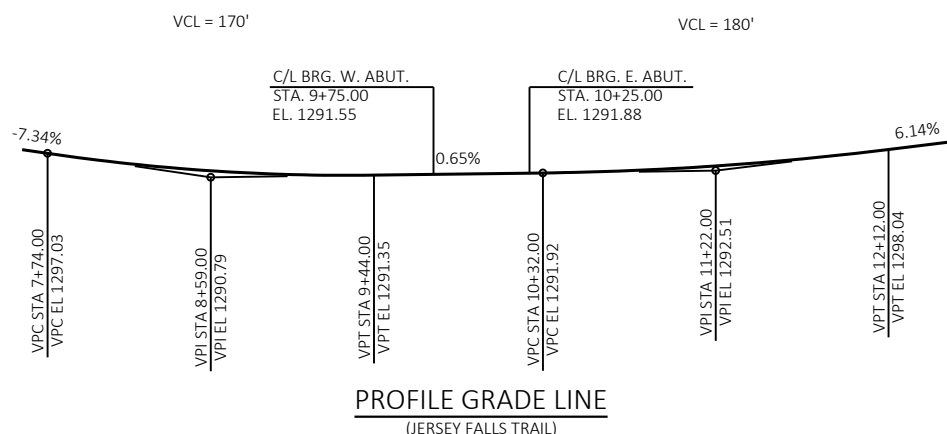
**LEGEND**

- 3/4" V-GROOVE REQ'D. EXTEND 6" FROM F.F. OF ABUTMENT BODY.
- COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD SPECIFICATIONS.
- ▲ COAT WITH "PIGMENTED SURFACE SEALER" AS PER THE STANDARD SPECIFICATIONS.



**ABUTMENT BACKFILL PAY QUANTITY DIAGRAM**

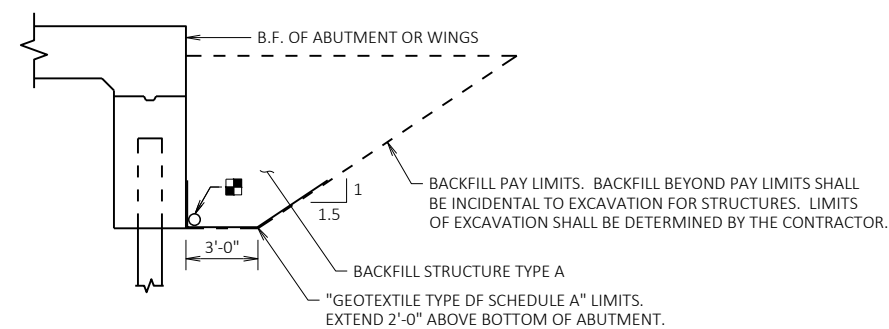
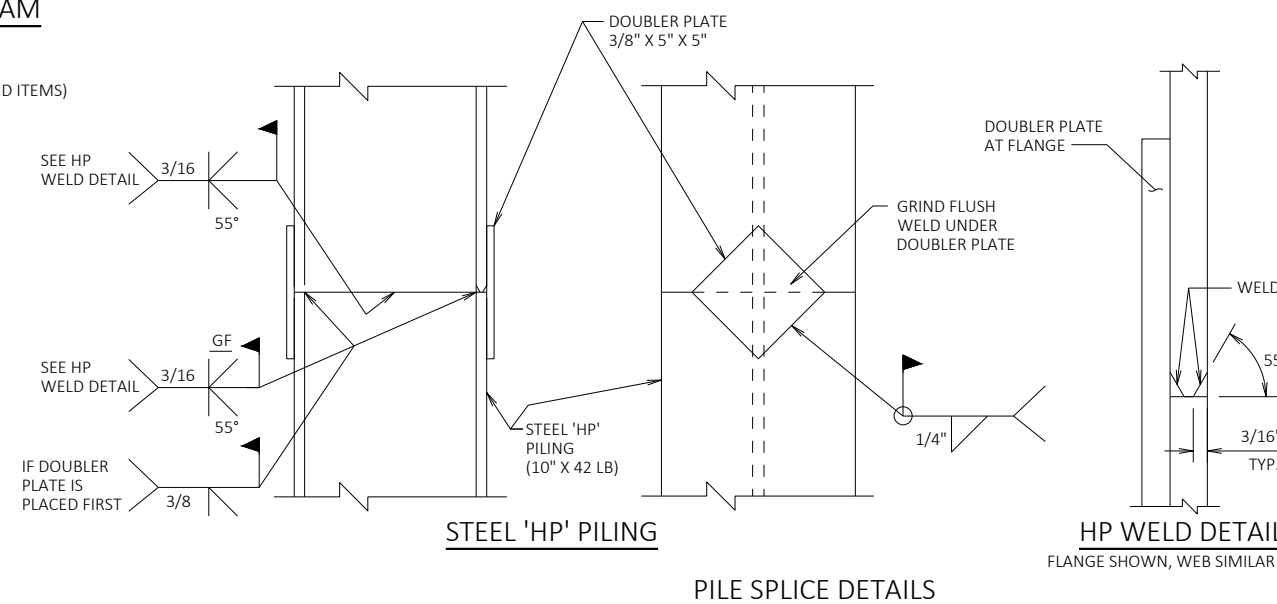
L = OUT TO OUT OF ABUTMENT, INCLUDING WINGS (FT)  
 H = AVERAGE ABUTMENT FILL HEIGHT (FT)  
 EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)  
 $V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H)$   
 $V_{CY} = V_{CF}(EF)/27$   
 $V_{TON} = V_{CY}(2.0)$



PROFILE GRADE LINE  
(JERSEY FALLS TRAIL)

**TOTAL ESTIMATED QUANTITIES**

BID NUMBER	BID ITEM	UNIT	WEST ABUT	EAST ABUT	SUPER	TOTALS
203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-37-194	EACH	----	----	----	1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-37-463	EACH	----	----	----	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	135	135	----	270
502.0100	CONCRETE MASONRY BRIDGES	CY	35.1	35.3	143.9	215
502.3200	PROTECTIVE SURFACE TREATMENT	SY	----	----	152	152
502.3210	PIGMENTED SURFACE SEALER	SY	12	12	52	76
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1,860	1,860	----	3,720
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	2,350	2,330	26,020	30,700
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	10	10	----	20
550.0020	PRE-BORING ROCK OR CONSOLIDATED MATERIAL	LF	90	90	----	180
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	100	100	----	200
606.0300	RIPRAP HEAVY	CY	130	130	----	260
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	110	110	----	220
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	29	29	----	58
645.0120	GEOTEXTILE TYPE HR	SY	170	170	----	340
SPV.0195	SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR	TON	90	90	----	180
NON-BID ITEMS						
	FILLER	SIZE	----	----	----	1/2" & 3/4"



**STRUCTURE BACKFILL LIMITS**

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

NO.	DATE	REVISION	BY

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

**STRUCTURE B-37-463**

DRAWN BY PKF PLANS CK'D. ETP

**CROSS SECTION & QUANTITIES**

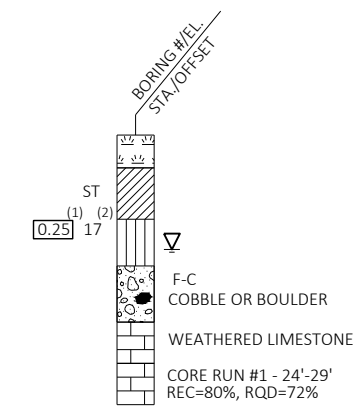
SHEET 2 OF 10



MATERIAL SYMBOLS

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

LEGEND OF BORING



SOIL BORINGS COMPLETED BY:  
 NUMMELIN TESTING SERVICES, INC.  
 5620 WOODLAND DRIVE  
 WAUNAKEE, WI 53597  
 (608) 849-9120  
 JANUARY 7, 2021

- (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

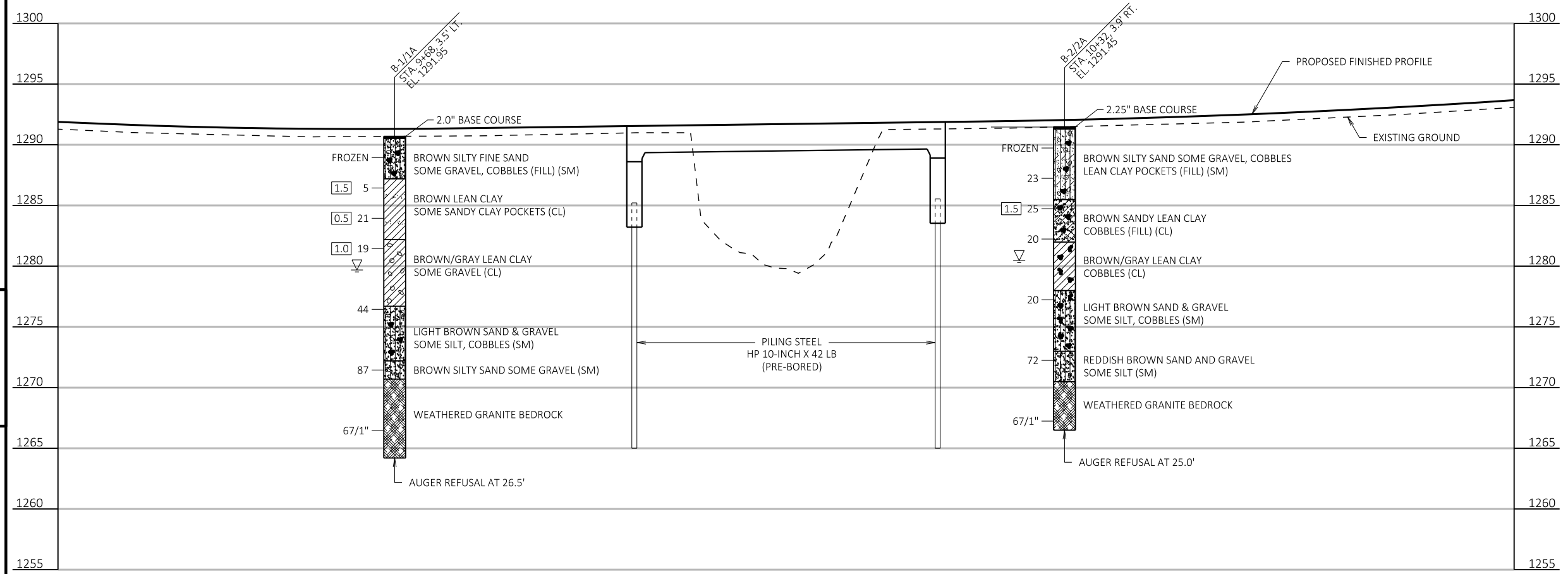
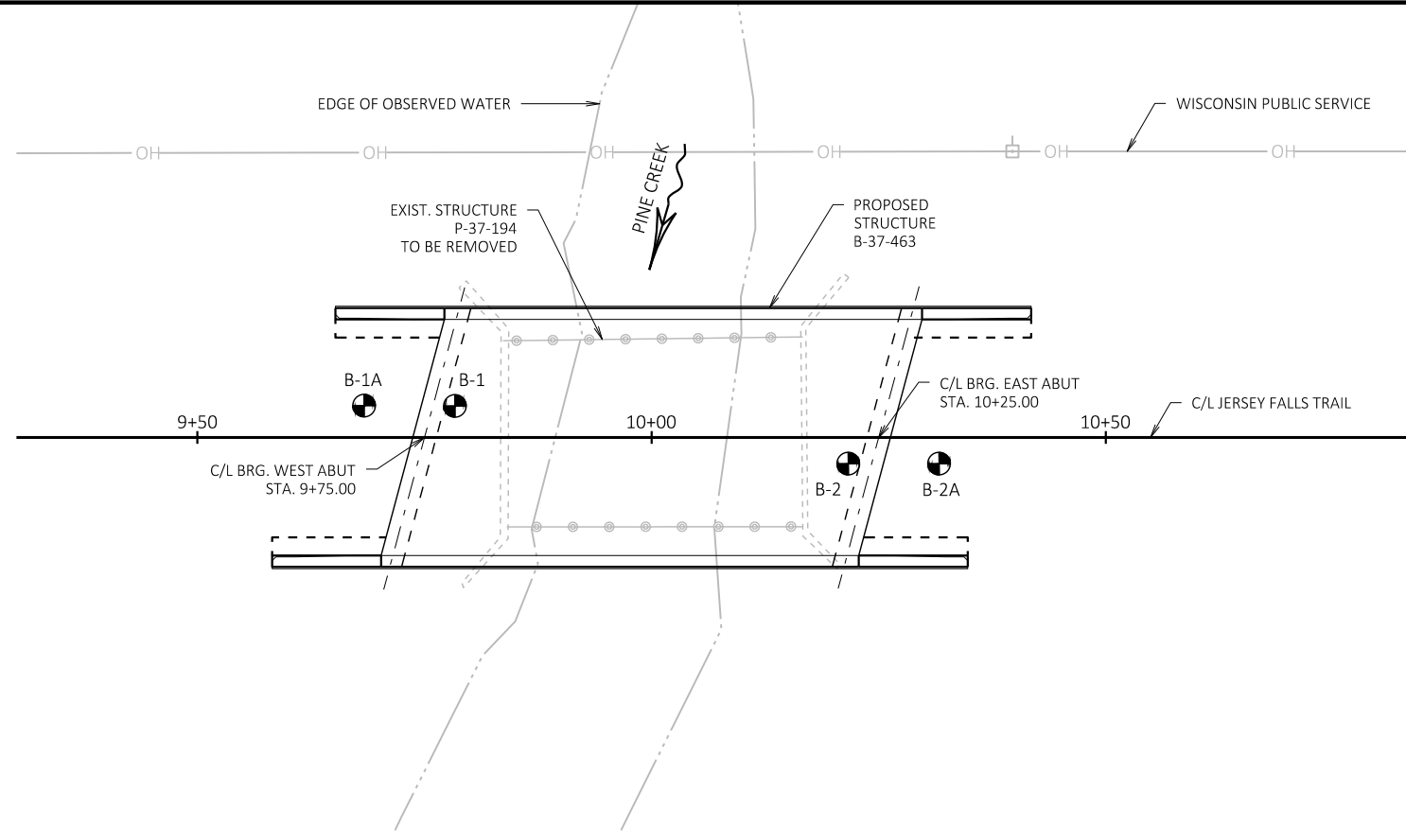
- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

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			
<b>STRUCTURE B-37-463</b>			
DRAWN BY PKF		PLANS CK'D. ETP	
<b>SUBSURFACE EXPLORATION</b>			SHEET 3 OF 10

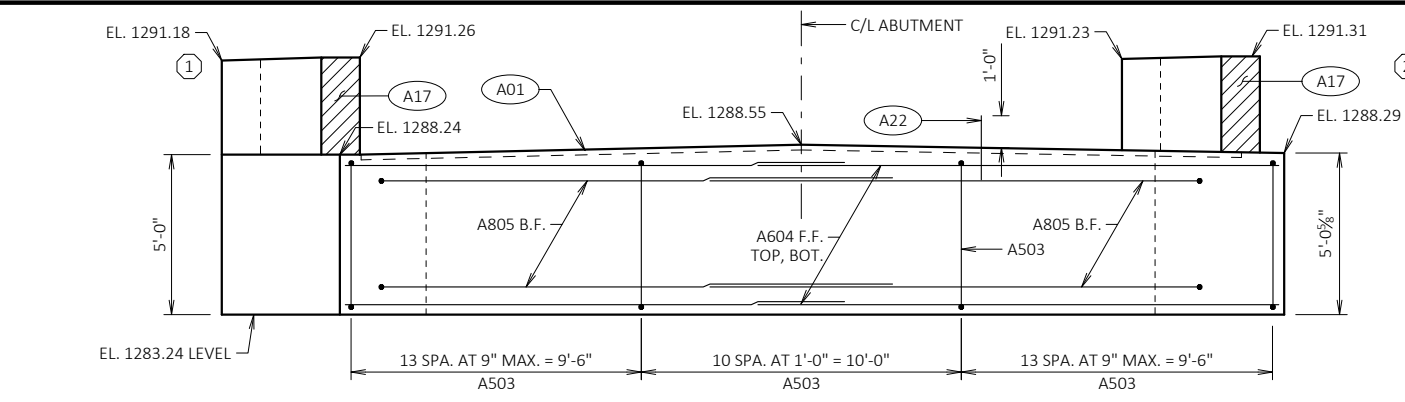
**LEGEND**

- INDICATES WING NUMBER
- A01 KEYED CONST. JOINT FORMED BY BEVELED 2" x 6".
- A09 SUPPORT ABUTMENT ON HP 10-INCH X 42 LB STEEL PILING FIRMLY SEATED IN PRE-BORED HOLES CORED A MINIMUM OF 3' INTO BEDROCK. ESTIMATED 20' LONG. SEE ADDITIONAL FOUNDATION DATA ON SHEET 1 AND PILE SPLICE DETAILS ON SHEET 2. PRE-BORING SHALL BE REQ'D TO A MINIMUM ELEVATION OF 1265.0. PILE DRIVING NOT REQUIRED.
- A15 PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SCREEN AT ENDS OF PIPE UNDERDRAIN. RODENT SHIELD TO BE INCLUDED IN BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH".
- A17 ½" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE).
- A19 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- A22 A510 BARS AT 1'-0". THESE BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE.

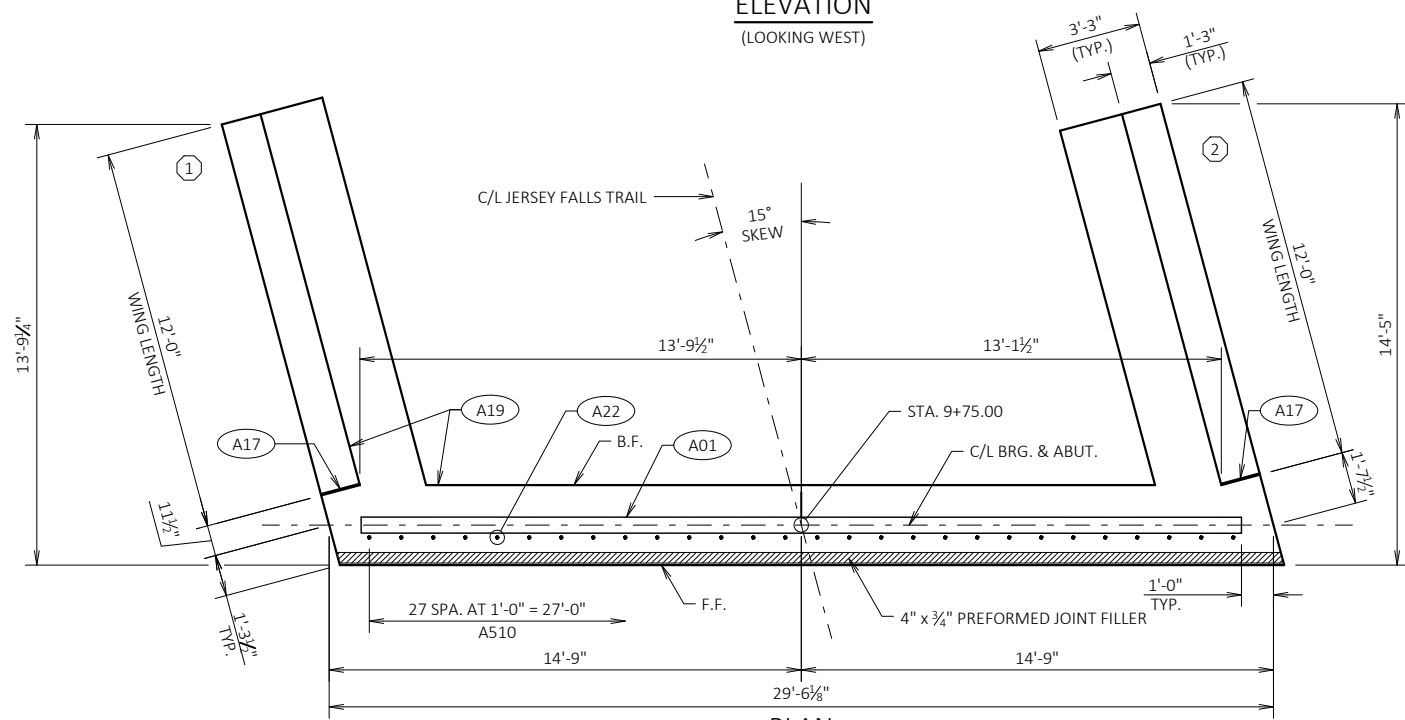
B.F. DENOTES BACK FACE  
F.F. DENOTES FRONT FACE

**NOTES**

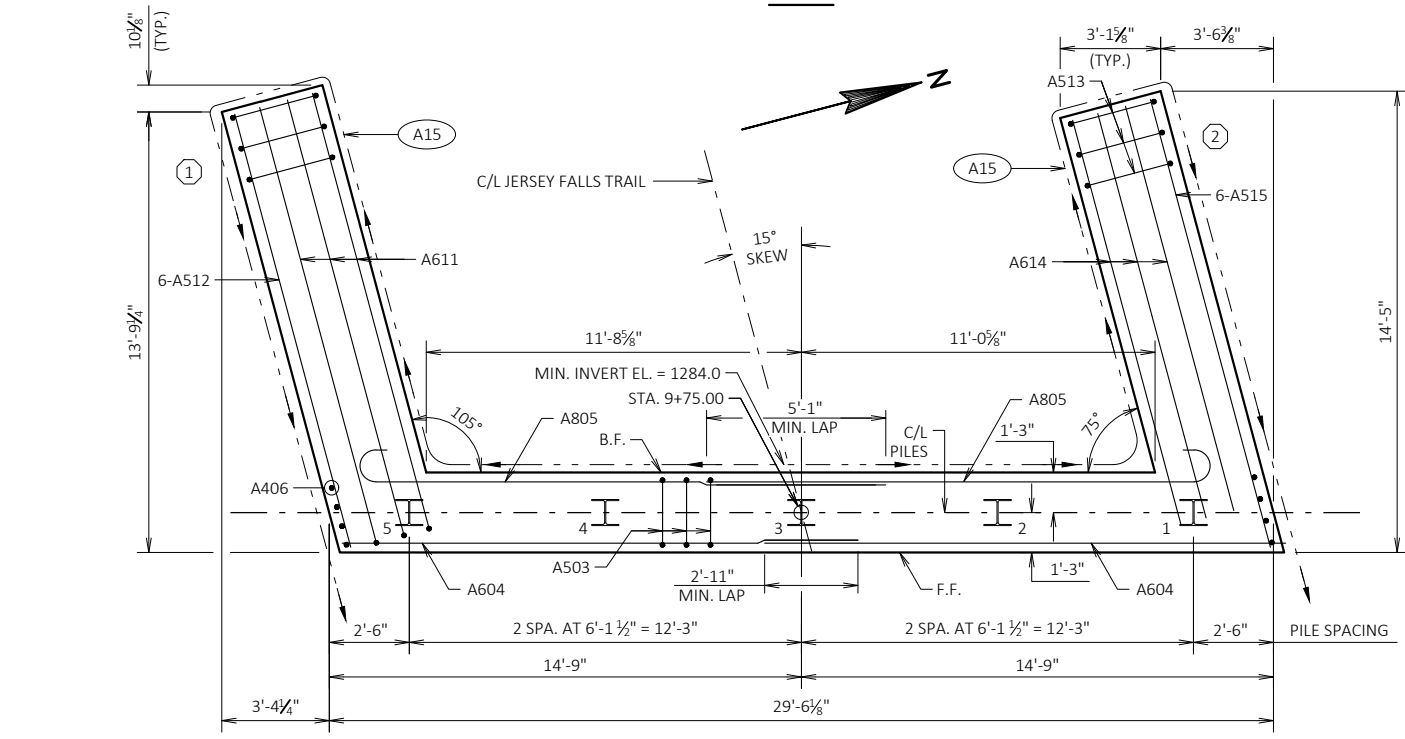
ELEVATIONS AND DIMENSIONS ARE GIVEN AT THE C/L OF ABUTMENT.



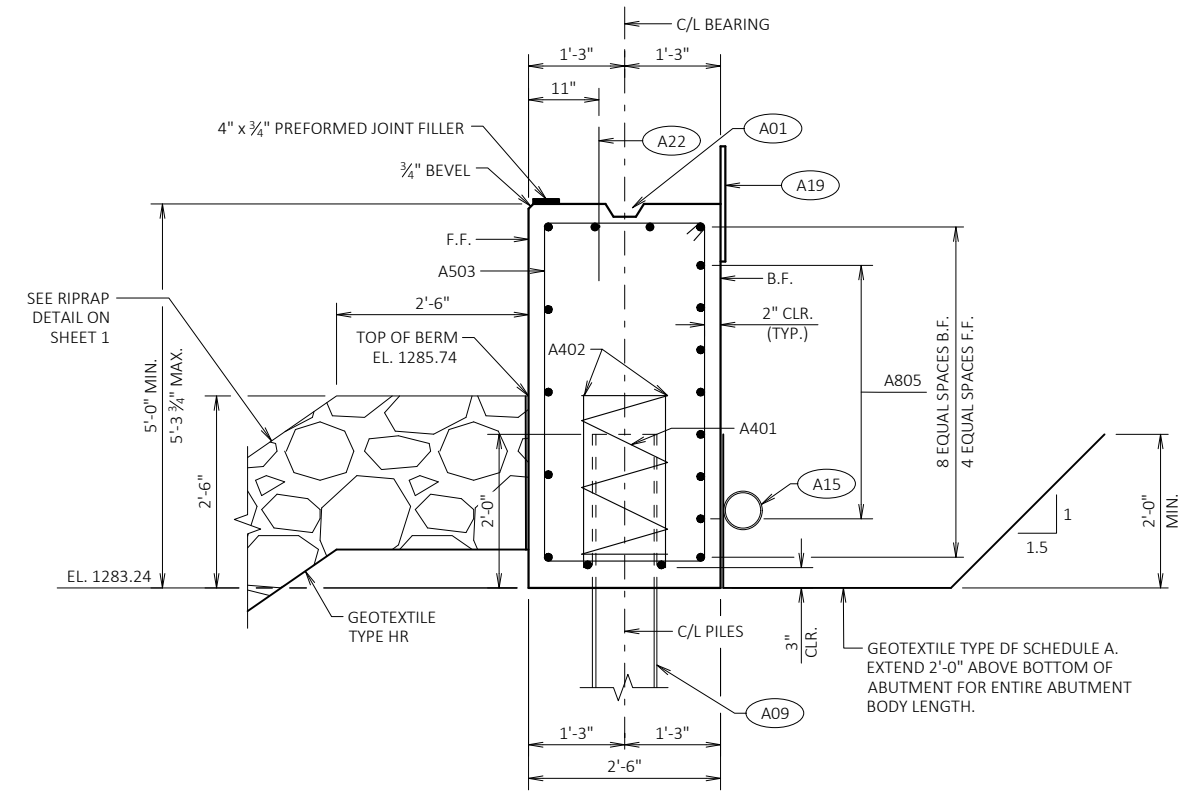
**ELEVATION**  
(LOOKING WEST)



**PLAN**



**PILE PLAN**



**SECTION THRU BODY**  
HORIZONTAL BARS NOT OTHERWISE IDENTIFIED ARE A604 BARS

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
<b>STRUCTURE B-37-463</b>			
DRAWN BY		PKF	PLANS CK'D. ETP
<b>WEST ABUTMENT</b>			SHEET 4 OF 10



**BILL OF BARS - WEST ABUTMENT**

DIMENSIONS IN BENDING DETAILS ARE OUT-TO-OUT OF BAR.

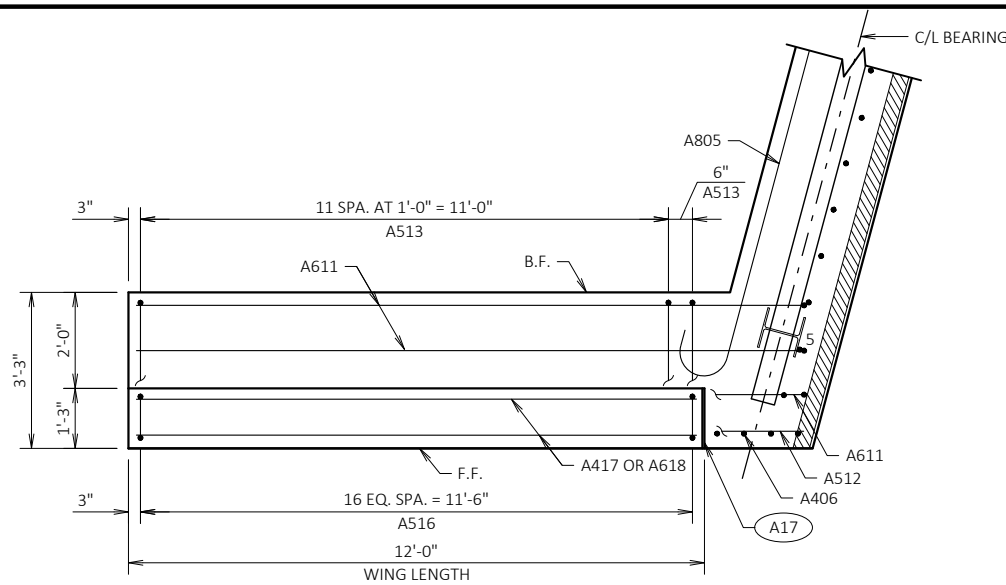
BAR MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
<b>NON-COATED BARS</b>					<b>TOTAL WEIGHT = 1,860 LBS</b>
A401	5	28'-0"	X		BODY - AT PILES - 1 PER PILE VERT.
A402	10	2'-3"			BODY - AT PILES - 2 PER PILE VERT.
A503	37	14'-2"	X		BODY - STIRRUPS VERT.
A604	22	16'-1"			BODY - B.F., F.F. & BTM HORIZ.
A805	14	17'-3"	X		BODY - B.F. HORIZ.
A406	8	4'-7"			BODY - ABUTMENT ENDS VERT.
<b>COATED BARS</b>					<b>TOTAL WEIGHT = 1,540 LBS</b>
A510	28	2'-0"			BODY - TOP VERT.
A611	8	14'-4"	X		WING 1 FTG - B.F. & TOP HORIZ.
A512	6	13'-11"			WING 1 FTG - F.F. HORIZ.
A513	25	15'-8"	X		WING FTGS - STIRRUPS VERT.
A614	8	13'-5"			WING 2 FTG - B.F. & TOP HORIZ.
A515	6	14'-6"			WING 2 FTG - F.F. HORIZ.
A516	34	10'-4"	X		WINGS - STIRRUPS VERT.
A417	12	11'-8"			WINGS - B.F. & F.F. HORIZ.
A618	4	11'-8"			WINGS - TOP HORIZ.
A419	24	2'-0"			WINGS - TOP - SURFACE DRAINS TRANS.

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

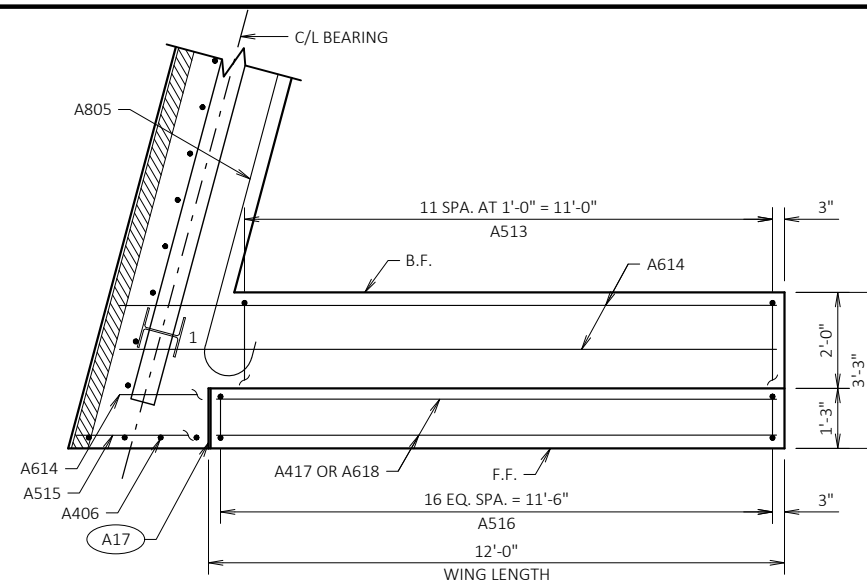
**LEGEND**

- (A03) OPTIONAL KEYED CONST. JOINT FORMED BY BEVELED 2" x 6".
- (A15) PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SCREEN AT ENDS OF PIPE UNDERDRAIN. RODENT SHIELD TO BE INCLUDED IN BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH".
- (A16) A419 BARS SPACED AT 1'-0" CTRS. EMBED 1'-0" INTO WING CONCRETE. LOCATE 3" DOWN FROM TOP OF WING AT ABUTMENT TO 6" DOWN AT WING TIP.
- (A17) 1/2" FILLER (INCLUDED IN WING LENGTH); 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.)
- (A19) 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- (A21) FOR PARAPET BARS & DIMENSIONS SEE SHEET 10.

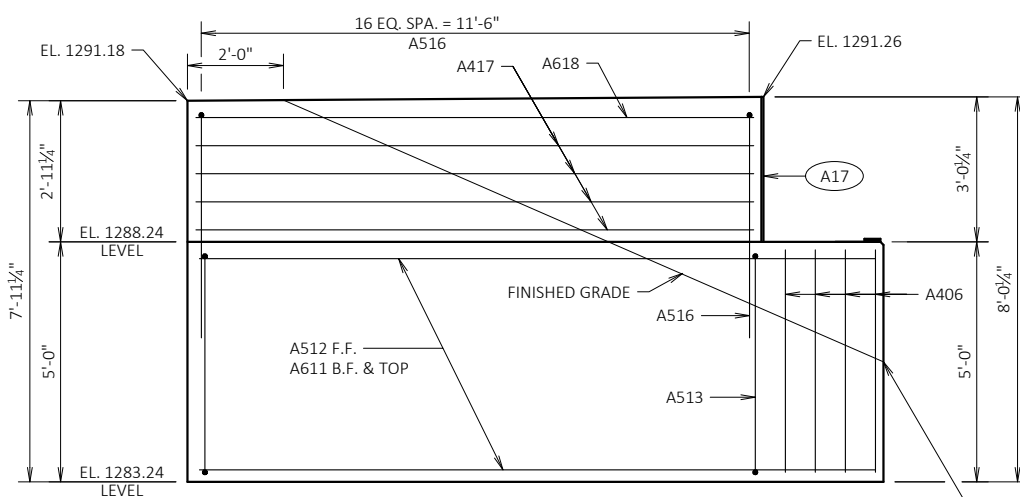
B.F. DENOTES BACK FACE  
 F.F. DENOTES FRONT FACE  
 E.F. DENOTES EACH FACE



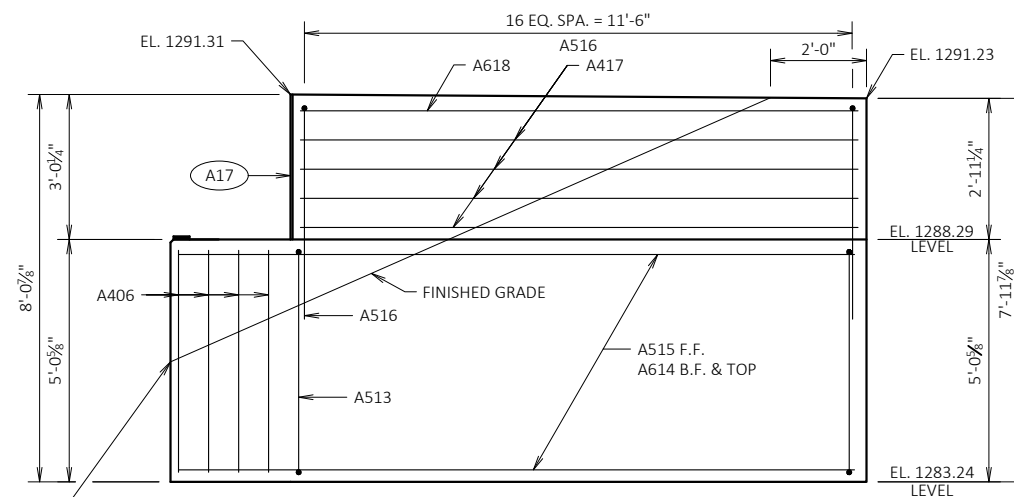
PLAN - WING 1



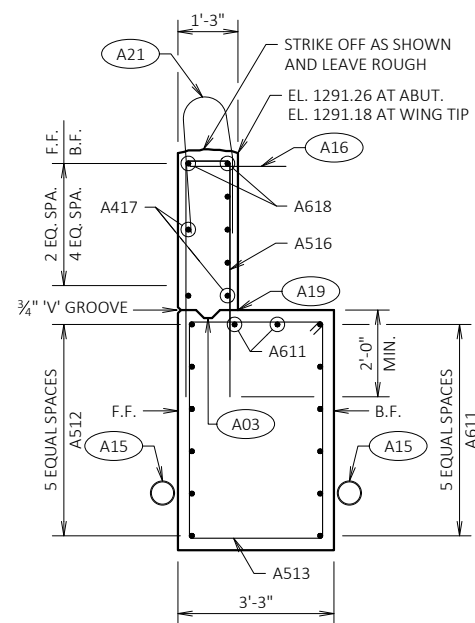
PLAN - WING 2



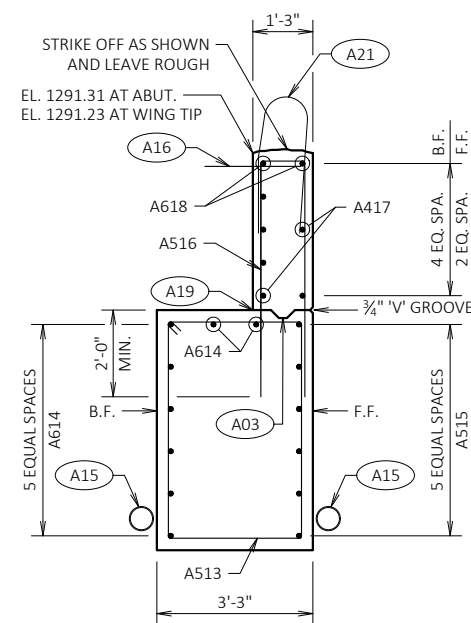
ELEVATION - WING 1



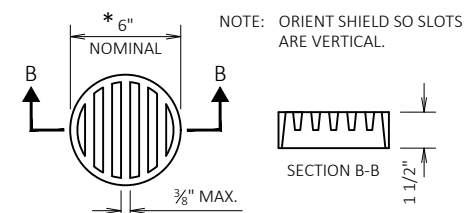
ELEVATION - WING 2



SECTION THRU WING 1



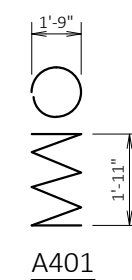
SECTION THRU WING 2



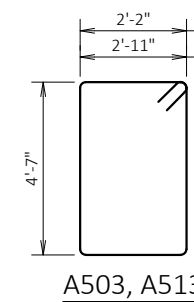
**RODENT SHIELD DETAIL**

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

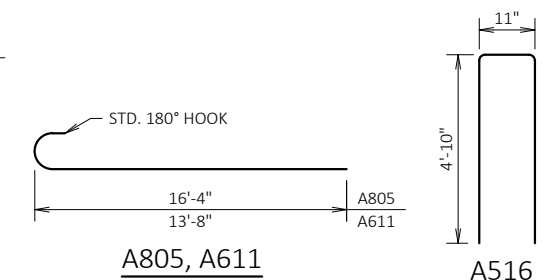
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL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



A401



A503, A513



A805, A611

A516

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
<b>STRUCTURE B-37-463</b>			
DRAWN BY		PKF	PLANS CK'D. ETP
<b>WEST ABUTMENT DETAILS</b>			SHEET 5 OF 10

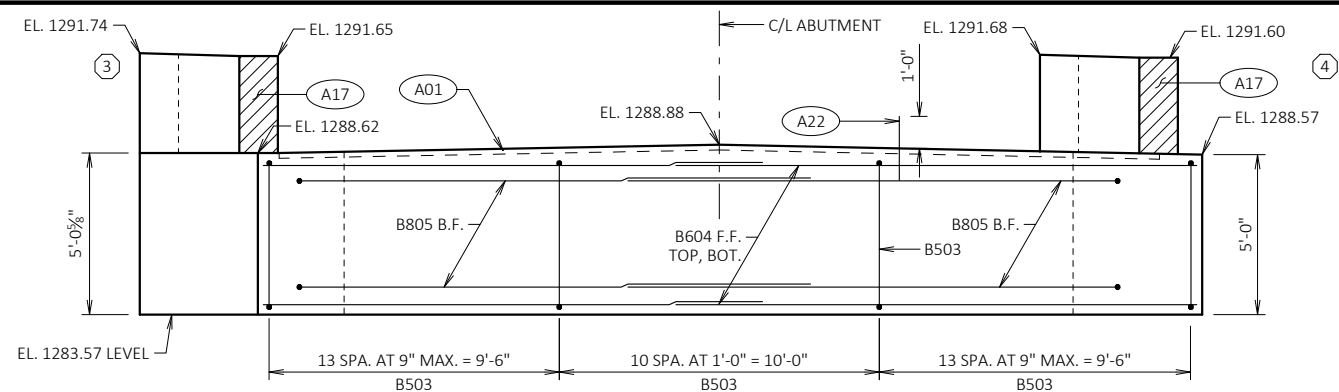


**LEGEND**

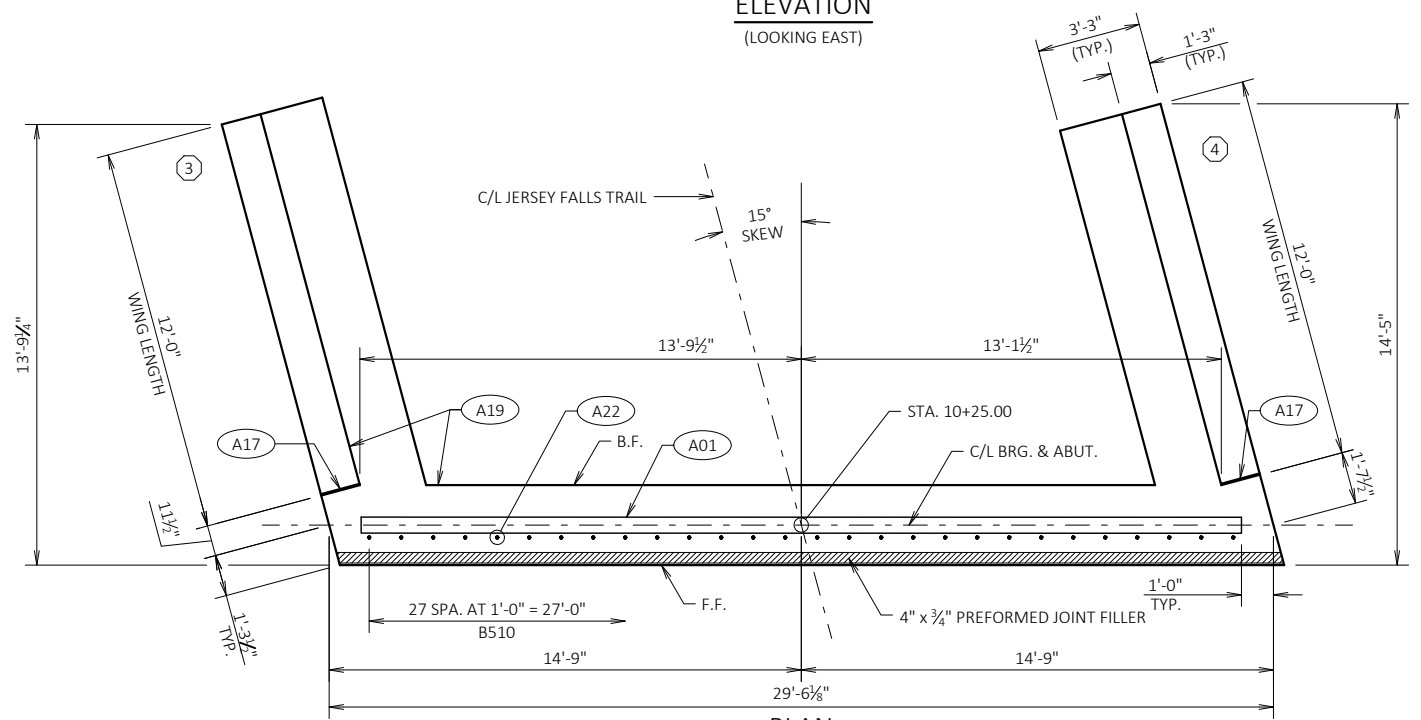
- INDICATES WING NUMBER
  - A01 KEYED CONST. JOINT FORMED BY BEVELED 2" x 6".
  - A09 SUPPORT ABUTMENT ON HP 10-INCH X 42 LB STEEL PILING FIRMLY SEATED IN PRE-BORED HOLES CORED A MINIMUM OF 3' INTO BEDROCK. ESTIMATED 20' LONG. SEE ADDITIONAL FOUNDATION DATA ON SHEET 1 AND PILE SPlice DETAILS ON SHEET 2. PRE-BORING SHALL BE REQ'D TO A MINIMUM ELEVATION OF 1265.0. PILE DRIVING NOT REQUIRED.
  - A15 PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SCREEN AT ENDS OF PIPE UNDERDRAIN. RODENT SHIELD TO BE INCLUDED IN BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH".
  - A17 ½" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE).
  - A19 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
  - A22 B510 BARS AT 1'-0". THESE BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE.
- B.F. DENOTES BACK FACE  
F.F. DENOTES FRONT FACE

**NOTES**

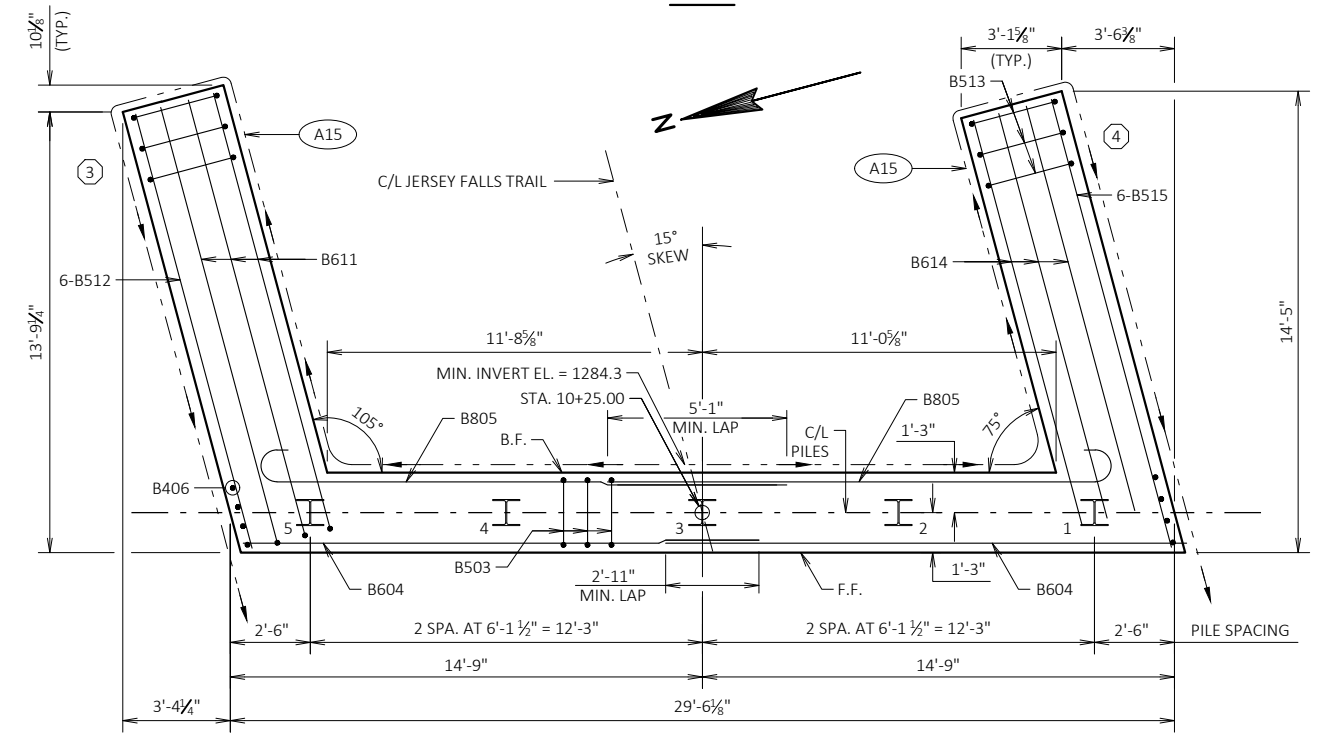
ELEVATIONS AND DIMENSIONS ARE GIVEN AT THE C/L OF ABUTMENT.



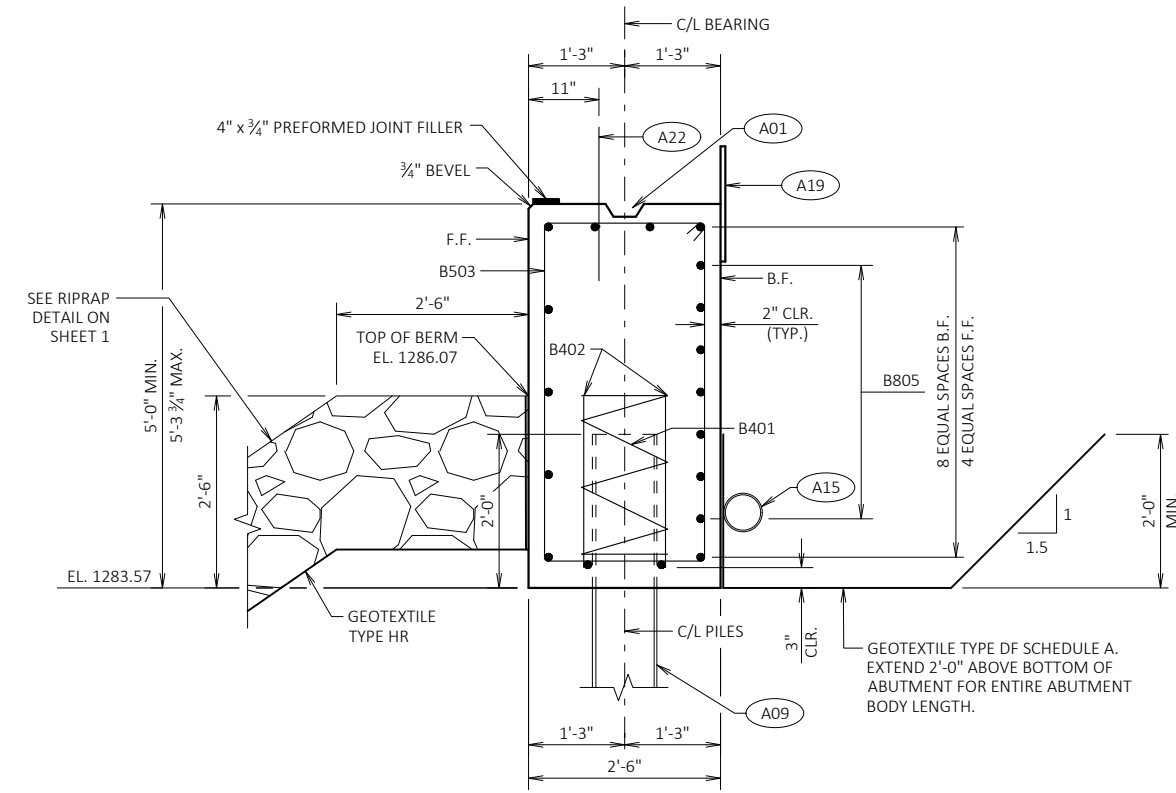
**ELEVATION**  
(LOOKING EAST)



**PLAN**



**PILE PLAN**



**SECTION THRU BODY**  
HORIZONTAL BARS NOT OTHERWISE IDENTIFIED ARE B604 BARS

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
<b>STRUCTURE B-37-463</b>			
DRAWN BY		PKF	PLANS CK'D. ETP
<b>EAST ABUTMENT</b>			SHEET 6 OF 10



**BILL OF BARS - EAST ABUTMENT**

DIMENSIONS IN BENDING DETAILS ARE OUT-TO-OUT OF BAR.

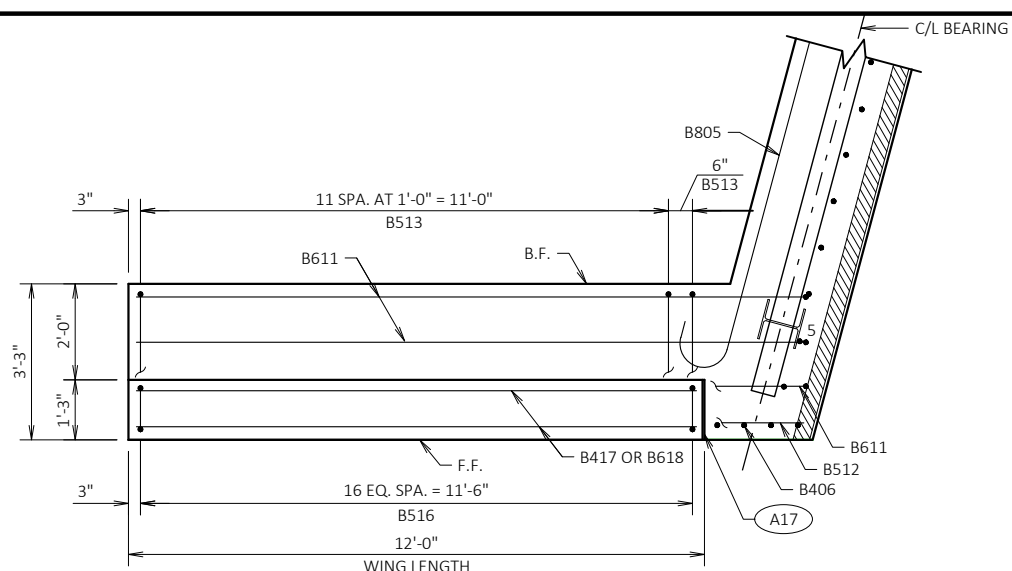
BAR MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
<b>NON-COATED BARS</b>					
					TOTAL WEIGHT = 1,860 LBS
B401	5	28'-0"	X		BODY - AT PILES - 1 PER PILE VERT.
B402	10	2'-3"			BODY - AT PILES - 2 PER PILE VERT.
B503	37	14'-2"	X		BODY - STIRRUPS VERT.
B604	22	16'-1"			BODY - B.F., F.F. & BTM HORIZ.
B805	14	17'-3"	X		BODY - B.F. HORIZ.
B406	8	4'-7"			BODY - ABUTMENT ENDS VERT.
<b>COATED BARS</b>					
					TOTAL WEIGHT = 1,520 LBS
B510	28	2'-0"			BODY - TOP VERT.
B611	8	14'-4"	X		WING 3 FTG - B.F. & TOP HORIZ.
B512	6	13'-11"			WING 3 FTG - F.F. HORIZ.
B513	25	15'-8"	X		WING FTGS - STIRRUPS VERT.
B614	8	13'-5"			WING 4 FTG - B.F. & TOP HORIZ.
B515	6	14'-6"			WING 4 FTG - F.F. HORIZ.
B516	34	10'-8"	X		WINGS - STIRRUPS VERT.
B417	12	11'-8"			WINGS - B.F. & F.F. HORIZ.
B618	4	11'-8"			WINGS - TOP HORIZ.

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

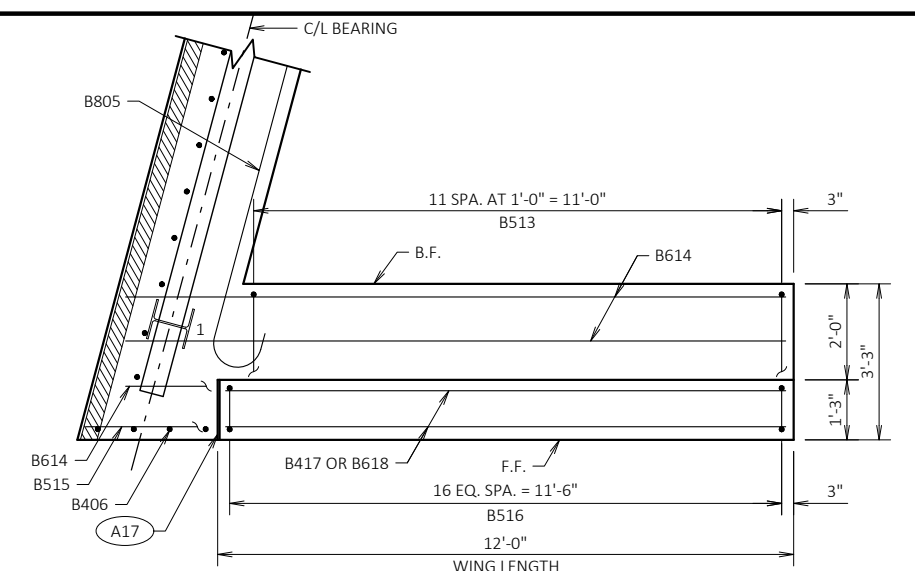
**LEGEND**

- (A03) OPTIONAL KEYED CONST. JOINT FORMED BY BEVELED 2" x 6".
- (A15) PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. RODENT SHIELD TO BE INCLUDED IN BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH".
- (A17) 1/2" FILLER (INCLUDED IN WING LENGTH): 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.)
- (A19) 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- (A21) FOR PARAPET BARS & DIMENSIONS SEE SHEET 10.

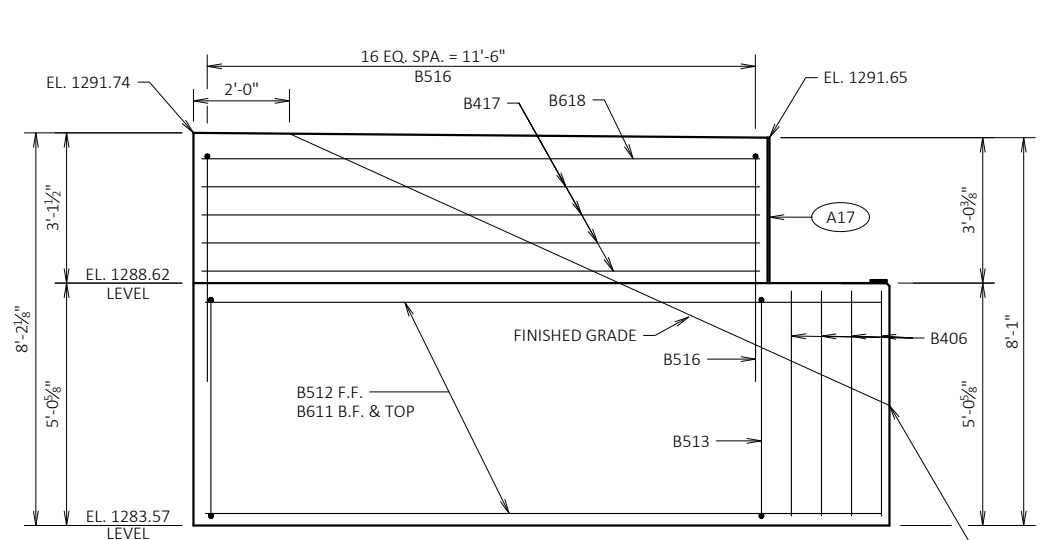
B.F. DENOTES BACK FACE  
 F.F. DENOTES FRONT FACE  
 E.F. DENOTES EACH FACE



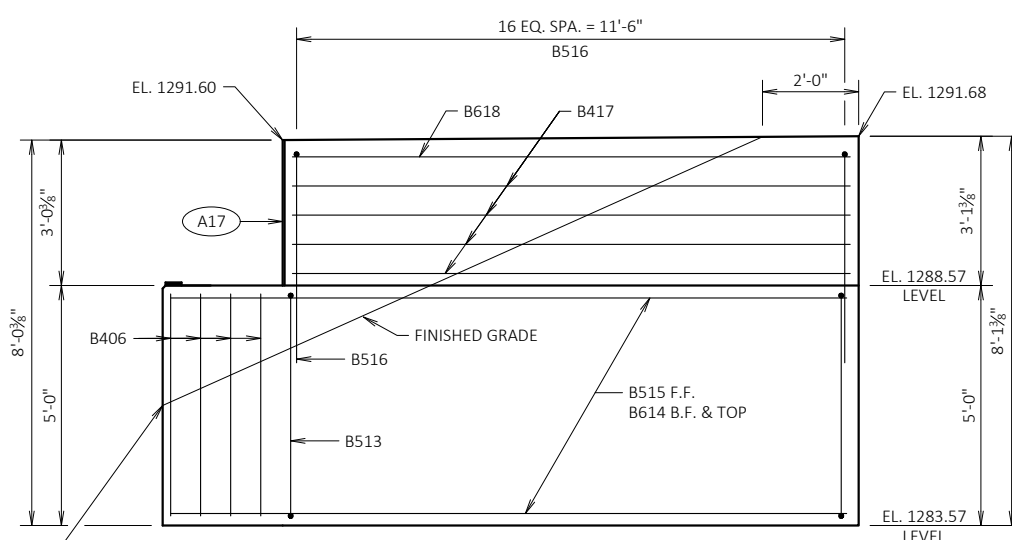
PLAN - WING 3



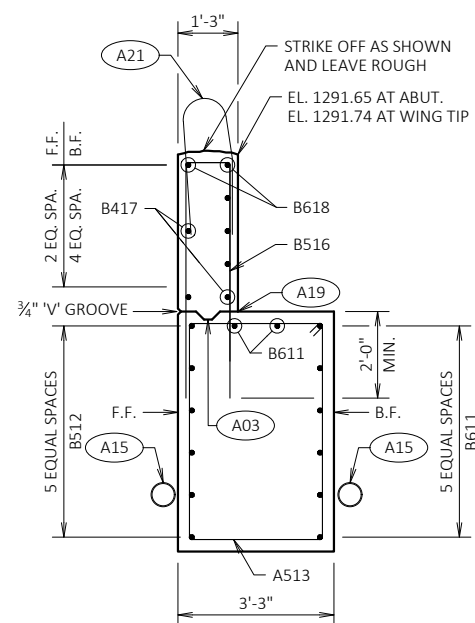
PLAN - WING 4



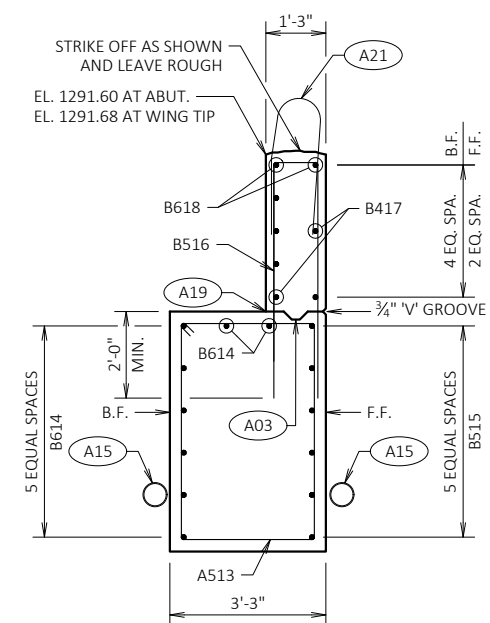
ELEVATION - WING 3



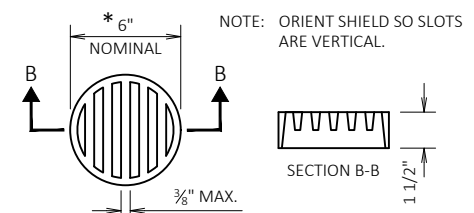
ELEVATION - WING 4



SECTION THRU WING 3



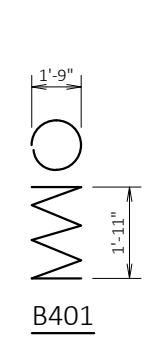
SECTION THRU WING 4



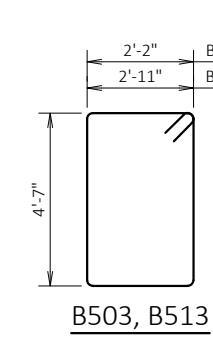
**RODENT SHIELD DETAIL**

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

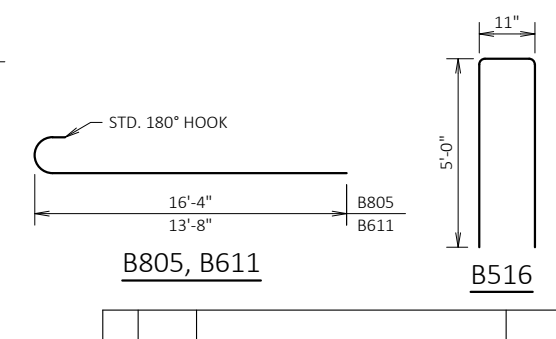
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL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



B401



B503, B513



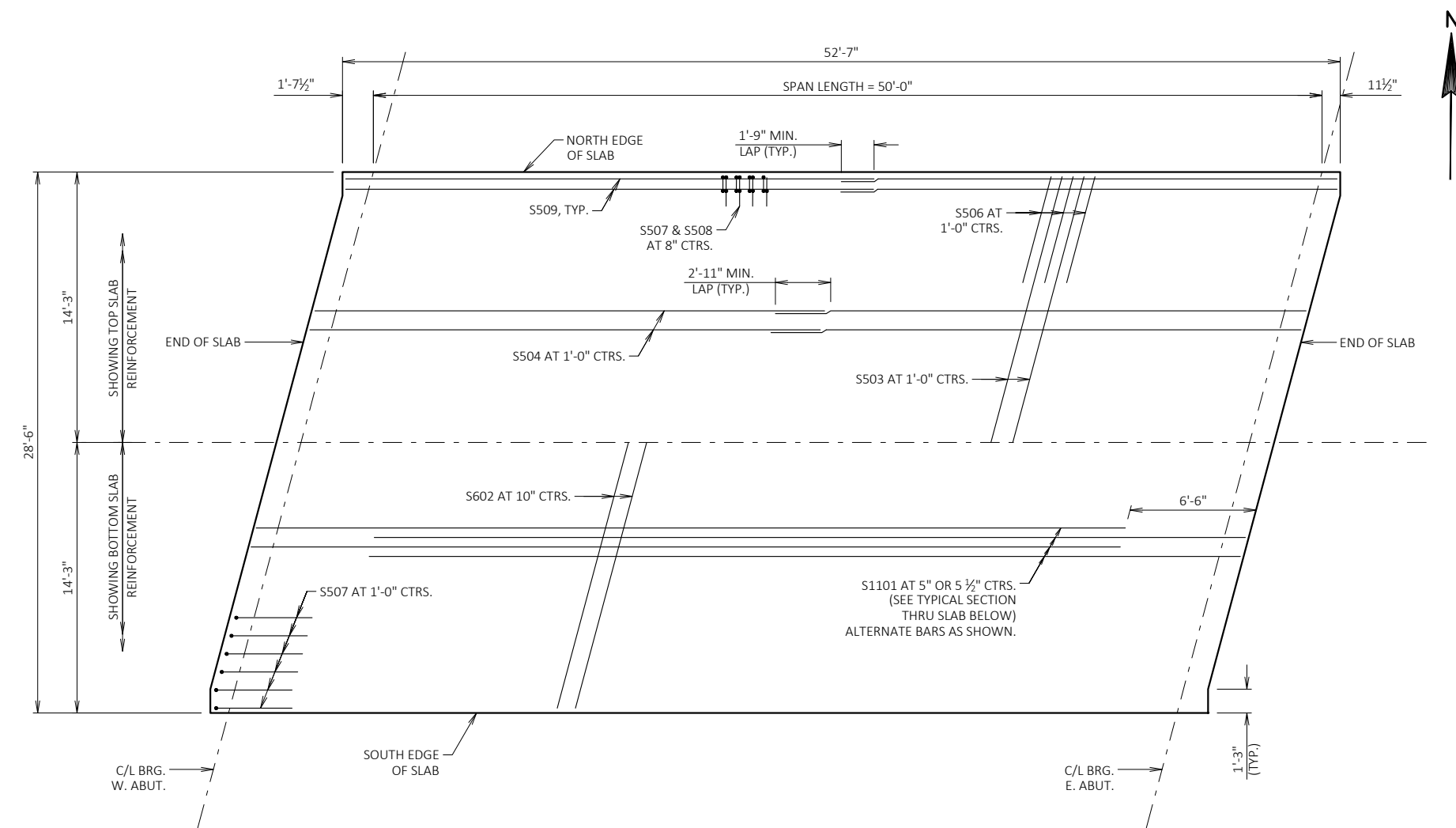
B805, B611

B516

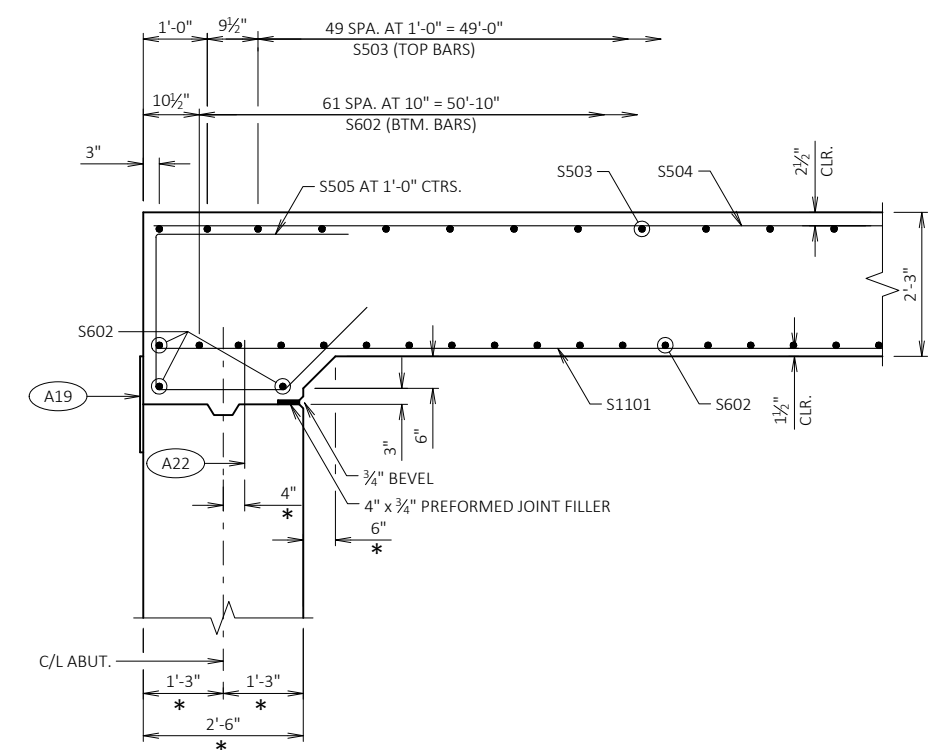
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
<b>STRUCTURE B-37-463</b>			
DRAWN BY		PKF	PLANS CK'D. ETP
<b>EAST ABUTMENT DETAILS</b>			SHEET 7 OF 10



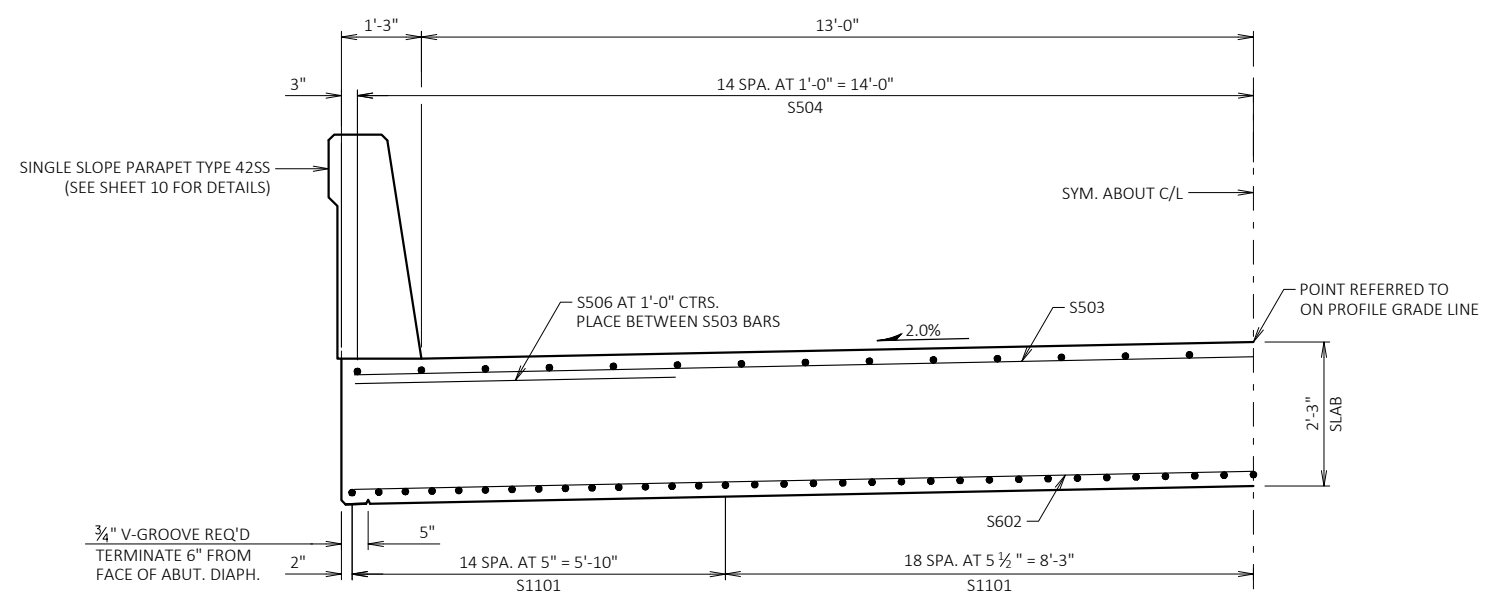




PLAN



PARTIAL LONGITUDINAL SECTION



TYPICAL SECTION THRU SLAB

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.
- TRANSVERSE BARS SHALL BE PLACED PARALLEL TO THE C/L OF SUBSTRUCTURE UNITS.
- ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).
- PARAPETS SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED.

LEGEND

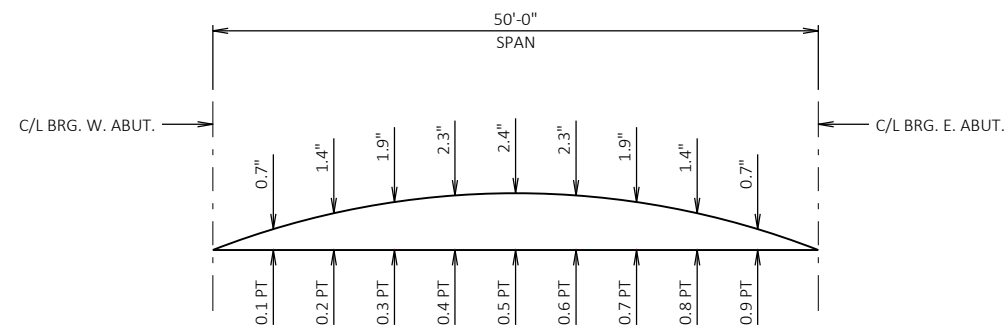
- A19 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- A22 A510 OR B510 BARS AT 1'-0" CTRS. THESE BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE.
- \* DIMENSION IS NORMAL TO C/L SUBSTRUCTURE.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
<b>STRUCTURE B-37-463</b>			
DRAWN BY		PKF	PLANS CK'D. ETP
<b>SUPERSTRUCTURE</b>			SHEET 8 OF 10



8

8



**CAMBER DIAGRAM**

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

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE C/L OF ABUTMENTS AND AT 5/10 POINTS TO VERIFY CAMBER. TAKE ELEVATIONS ALONG GUTTER LINES AND CROWN OR C/L.

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

LESS TOP OF SLAB ELEVATION AT FINAL GRADE  
 PLUS 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.

**BILL OF BARS - SUPERSTRUCTURE**

DIMENSIONS IN BENDING DETAILS ARE OUT-TO-OUT OF BAR.

BAR MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION	
COATED BARS						TOTAL WEIGHT = 26,000 LBS
S1101	65	45'-11"			SLAB - BTM	LONGIT.
S602	68	29'-2"			SLAB - BTM	TRANS.
S503	54	29'-2"			SLAB - TOP	TRANS.
S504	58	27'-7"			SLAB - TOP	LONGIT.
S505	58	9'-2"	X		SLAB - ABUT. DIAPHRAGMS	TRANS.
S506	104	5'-0"			SLAB - EDGES	TRANS.
S507	160	4'-5"	X		PARAPET - VERT.	TRANS.
S508	160	6'-8"	X		PARAPET - VERT.	TRANS.
S509	32	27'-0"			PARAPET - HORIZ.	LONGIT.

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

**TOP OF SLAB ELEVATIONS**

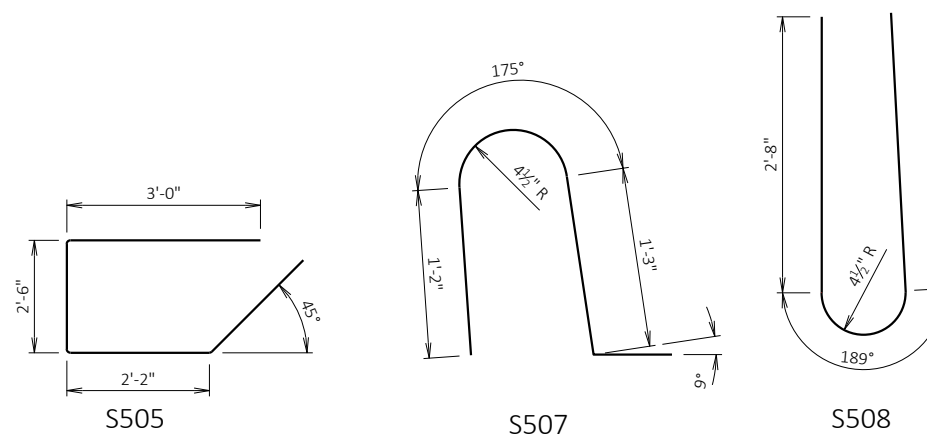
LOCATION	C/L BRG. W. ABUT.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	C/L BRG. E. ABUT.
NORTH FLOW LINE	1291.31	1291.35	1291.38	1291.41	1291.44	1291.48	1291.51	1291.54	1291.57	1291.61	1291.64
C/L STRUCTURE	1291.55	1291.58	1291.62	1291.65	1291.68	1291.71	1291.75	1291.78	1291.81	1291.84	1291.88
SOUTH FLOW LINE	1291.27	1291.30	1291.33	1291.37	1291.40	1291.43	1291.46	1291.50	1291.53	1291.56	1291.59

ELEVATIONS SHOWN ARE FINISHED DECK AND DO NOT INCLUDE ALLOWANCES OF DEAD LOAD DEFLECTION AND FUTURE CREEP.

**SURVEY TOP OF SLAB ELEVATIONS**

	C/L BRG. W. ABUT.	0.5 PT	C/L BRG. E. ABUT.
NORTH FLOW LINE			
C/L STRUCTURE			
SOUTH FLOW LINE			

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



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
<b>STRUCTURE B-37-463</b>			
DRAWN BY PKF		PLANS CK'D. ETP	
<b>SUPERSTRUCTURE DETAILS</b>			SHEET 9 OF 10



**BILL OF BARS - WING PARAPET**

BAR SHOWN ARE FOR 1 WING ONLY

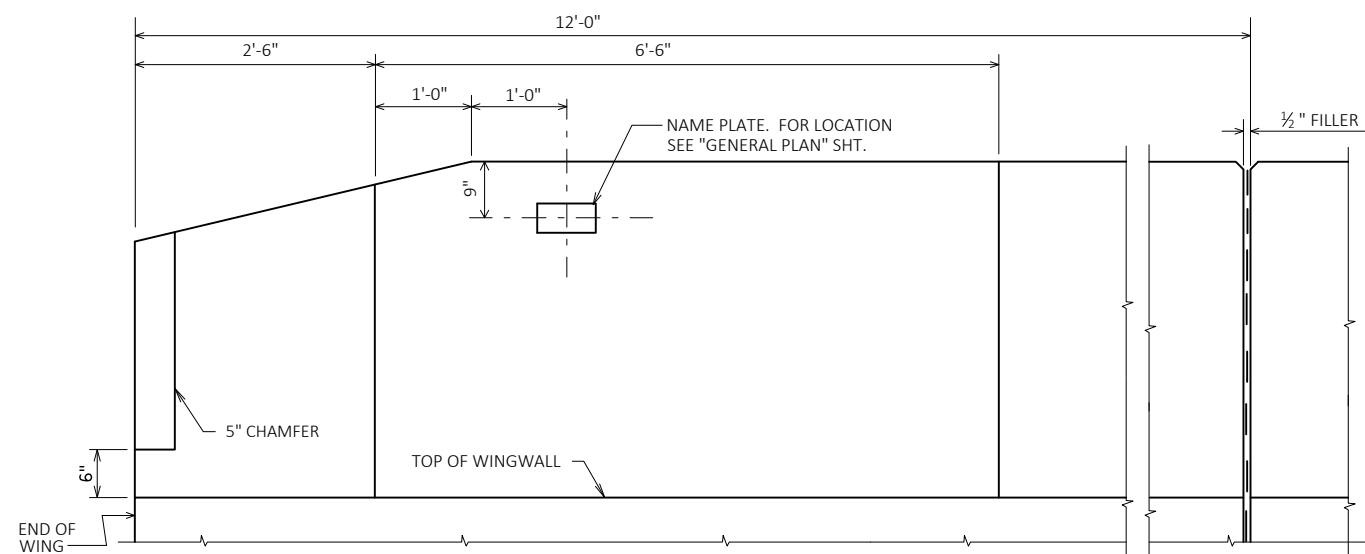
BAR MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
<b>COATED BARS</b>					
					TOTAL WEIGHT = 405 LBS
R501	5	5'-10"	X		PARAPET VERT.
R502	5	6'-8"	X		PARAPET VERT.
R503	11	3'-0"	X		PARAPET VERT.
R504	17	5'-7"	X		PARAPET VERT.
R505	5	6'-5"	X		PARAPET VERT.
R506	6	6'-6"	X		PARAPET VERT.
R507	1	11'-5"	X		PARAPET HORIZ.
R508	5	11'-8"			PARAPET HORIZ.
R509	6	5'-5"	X	X	PARAPET VERT.
R510	2	11'-5"	X		PARAPET HORIZ.

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

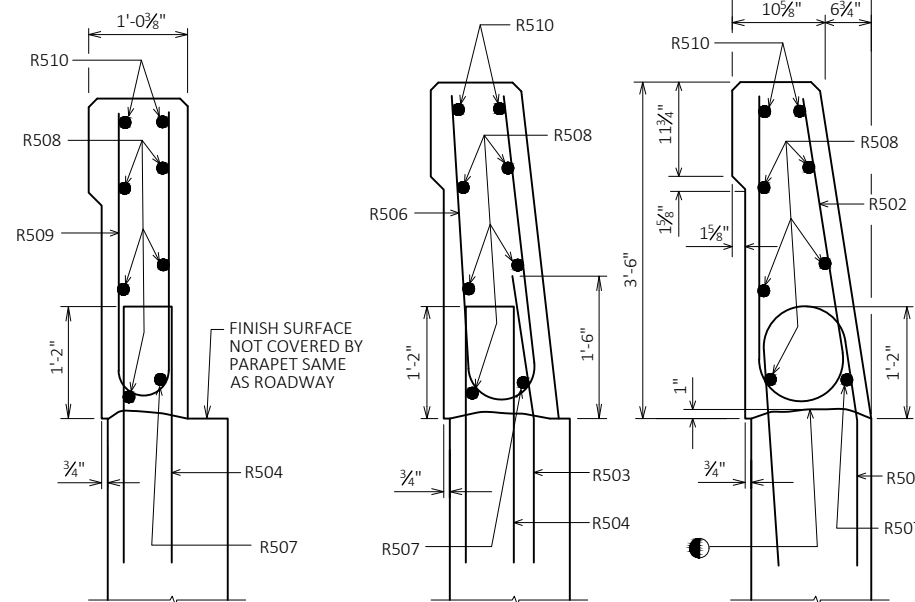
**BAR SERIES TABLE**

BAR MARK	NO. REQ'D.	LENGTH
R509	4 SERIES OF 6	4'-9" TO 6'-1"

BUNDLE AND TAG EACH SERIES SEPARATELY.



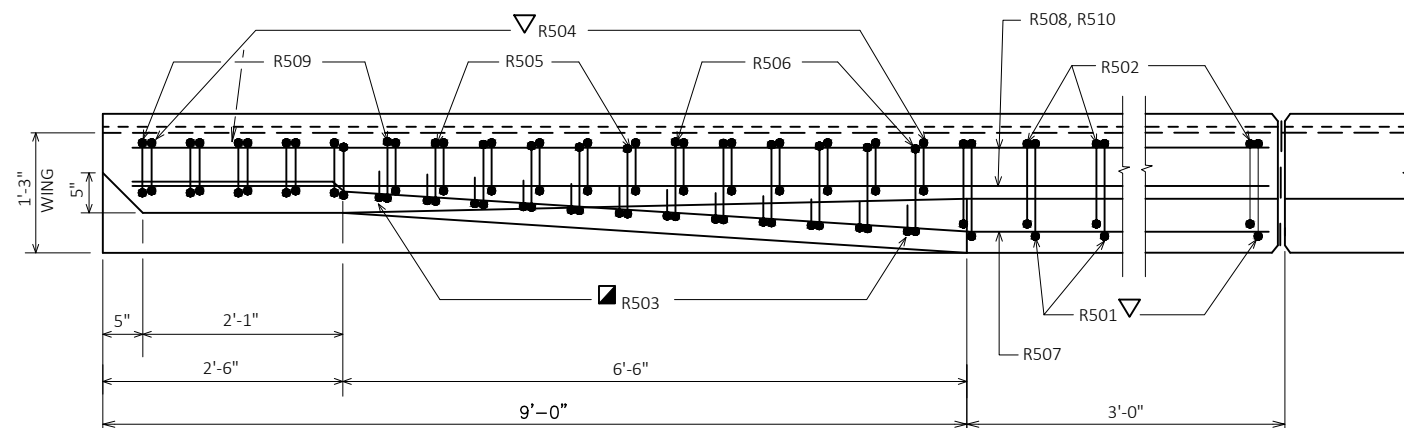
**INSIDE ELEVATION**



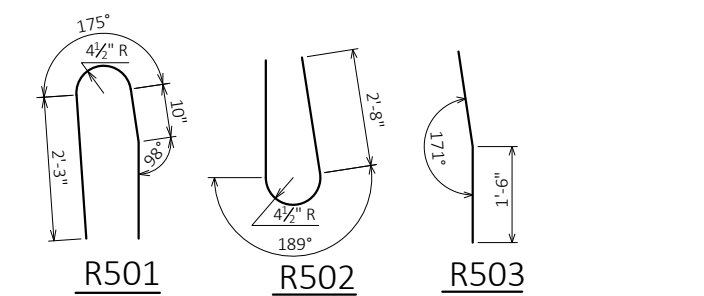
**SECTION A**

**SECTION B**

**SECTION C**



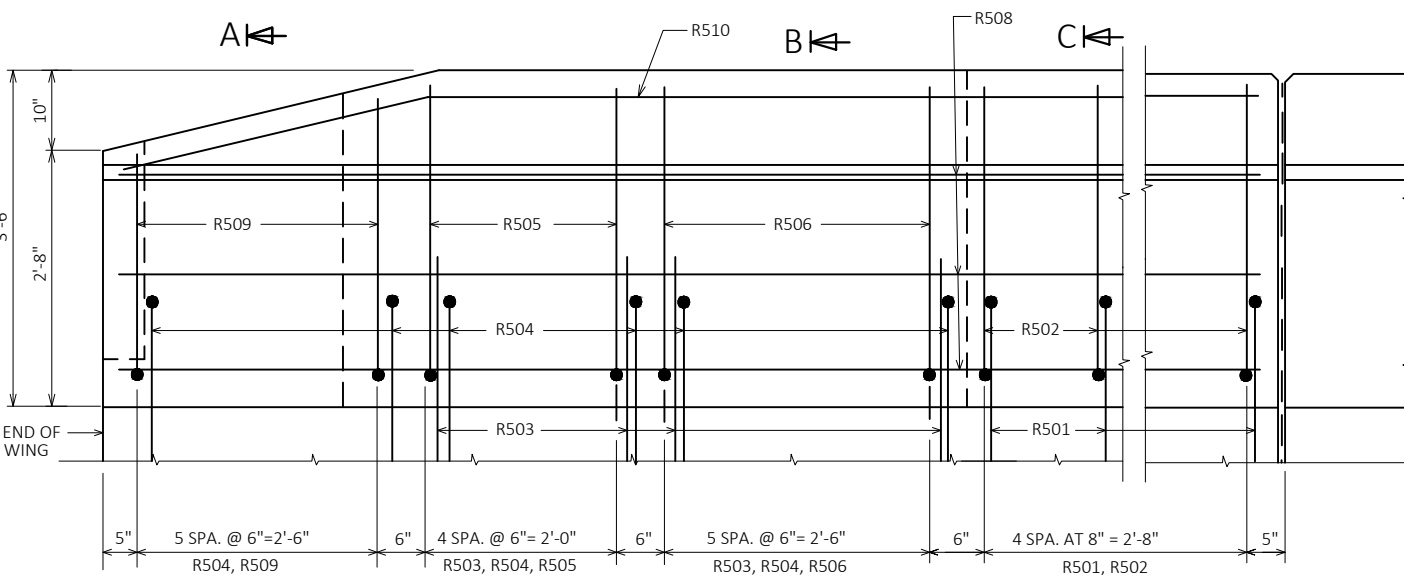
**PLAN**



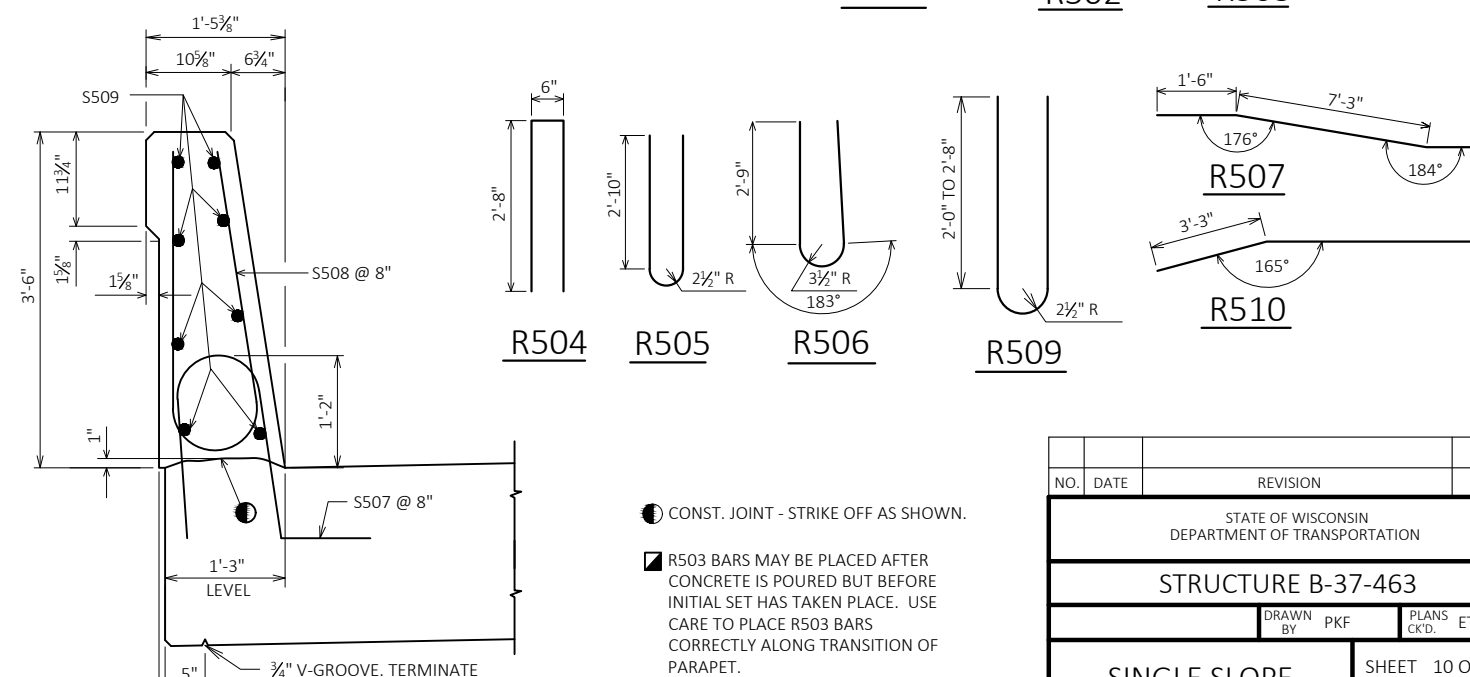
**R501**

**R502**

**R503**



**OUTSIDE ELEVATION**



**SECTION THRU PARAPET ON BRIDGE**

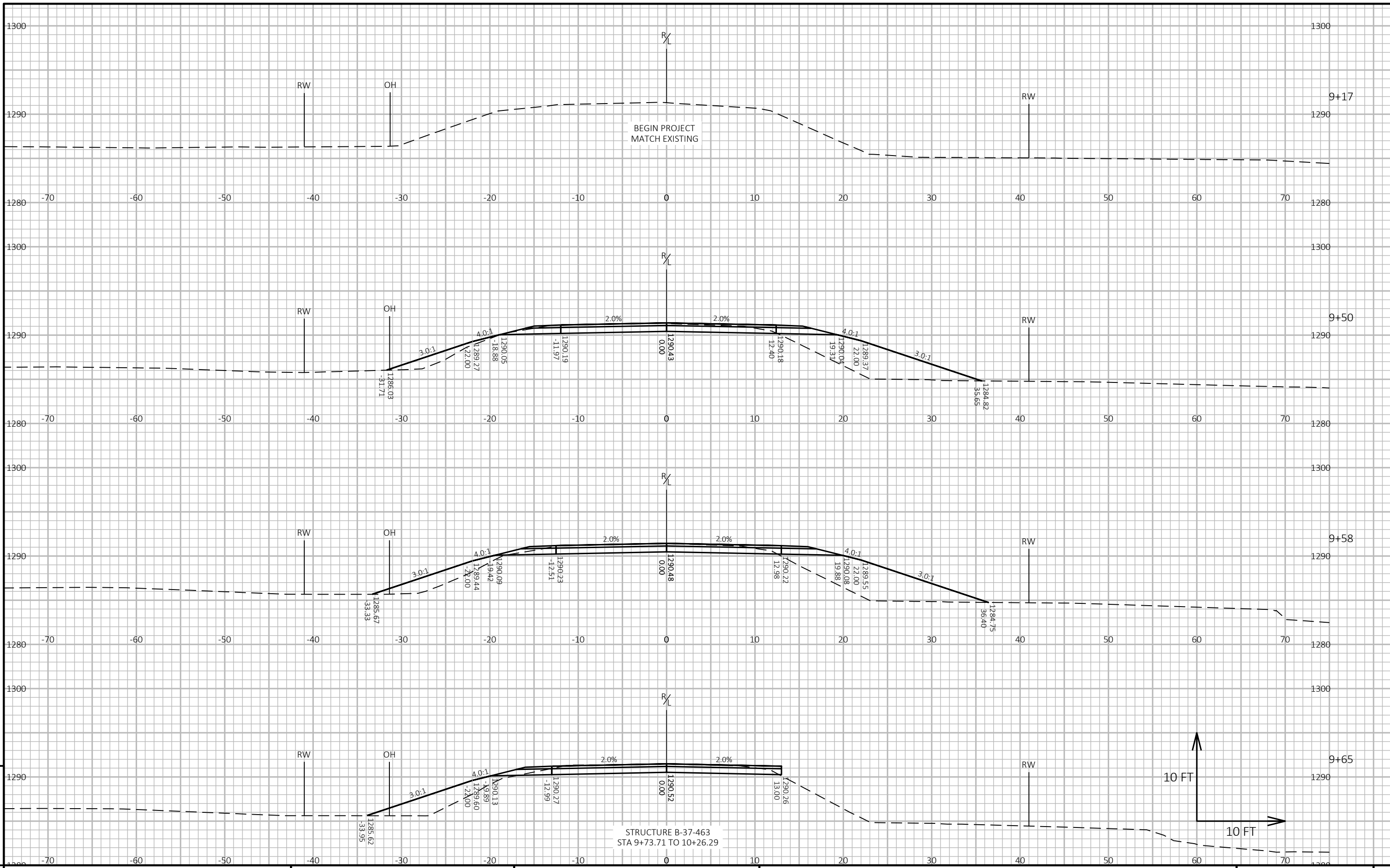
- CONST. JOINT - STRIKE OFF AS SHOWN.
- R503 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE R503 BARS CORRECTLY ALONG TRANSITION OF PARAPET.
- ▽ R501 AND R504 BARS TO BE TIED TO WING STEEL BEFORE WING IS POURED.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
<b>STRUCTURE B-37-463</b>			
DRAWN BY PKF		PLANS CK'D. ETP	
<b>SINGLE SLOPE PARAPET 42SS</b>			SHEET 10 OF 10

DIVISION -- JERSEY FALLS TRAIL

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		
09+17	0.00	26.67	0.00	35.18	0	0	0	0	0	0
09+25	8.00	27.04	0.00	37.23	8	0	11	8	14	-6
09+50	25.00	24.43	0.00	57.29	24	0	44	32	69	-37
09+58.224	8.22	24.07	0.00	70.83	7	0	20	39	94	-55
09+65	6.78	24.35	0.00	21.59	6	0	12	45	109	-64
STRUCTURE B-37-463										
10+35	0.00	25.63	0.00	39.98	0	0	0	45	109	-64
10+41.777	6.78	24.70	0.00	62.72	6	0	13	51	125	-74
10+50	8.22	24.69	0.00	69.64	8	0	20	59	150	-91
10+75	25.00	24.57	0.00	45.91	23	0	53	82	216	-134
10+83	8.00	25.99	0.00	35.66	7	0	12	89	231	-142

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



PROJECT NO: 9525-01-70

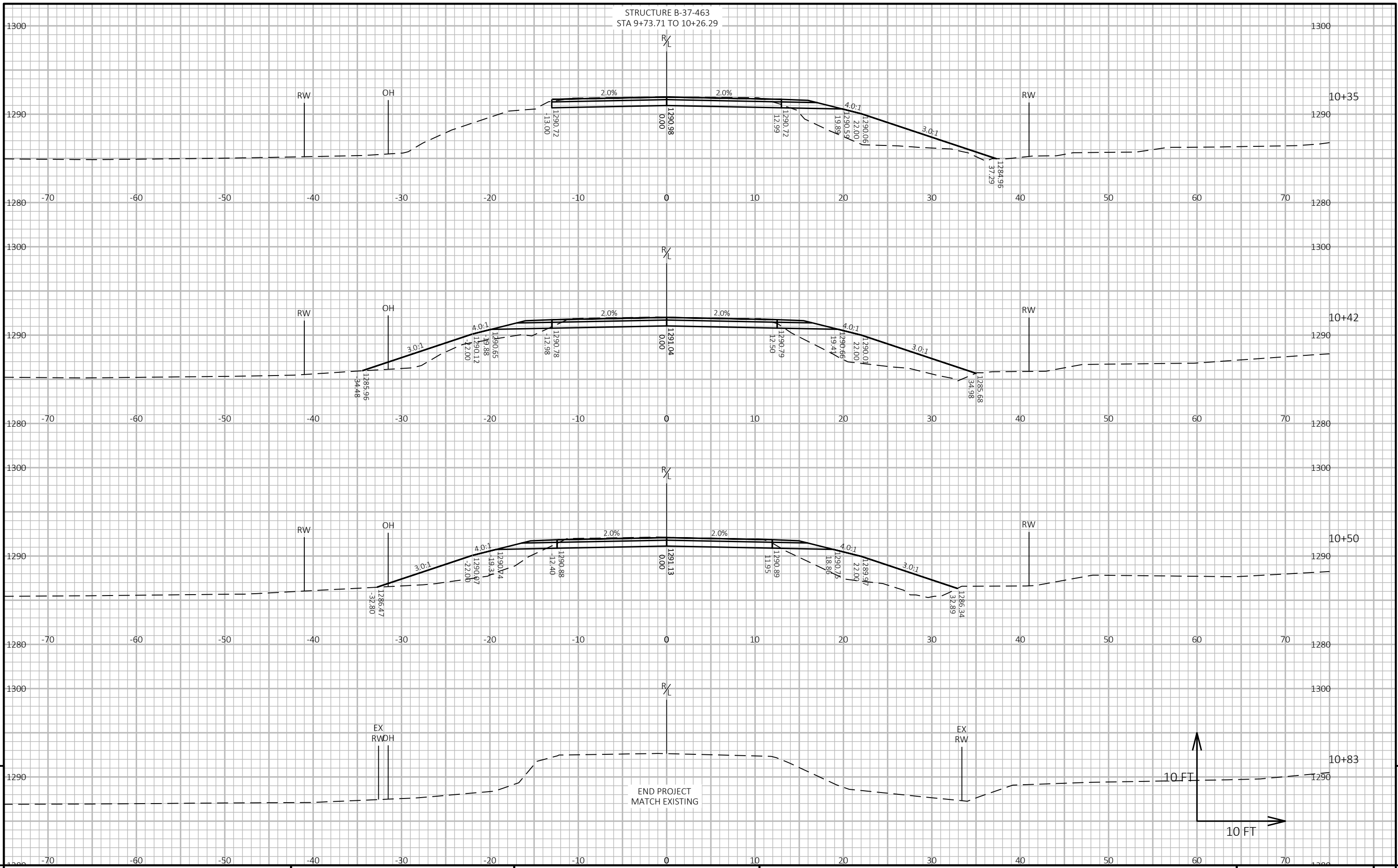
HWY: LOC STR

COUNTY: MARATHON

CROSS SECTIONS: JERSEY FALLS TRAIL

SHEET

E



PROJECT NO: 9525-01-70

HWY: LOC STR

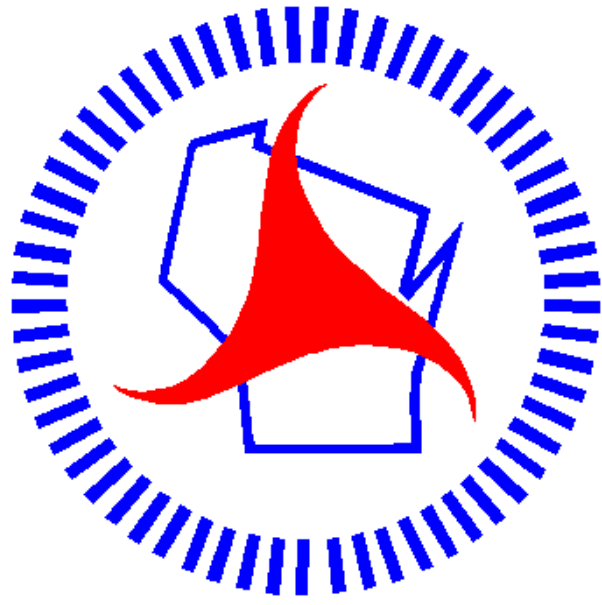
COUNTY: MARATHON

CROSS SECTIONS: JERSEY FALLS TRAIL

SHEET

E

# Notes



## ***Wisconsin Department of Transportation***

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