

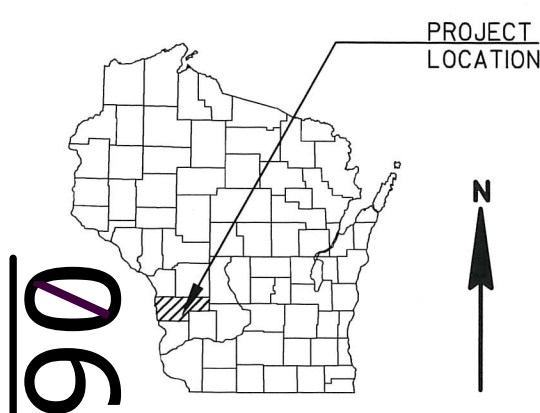
SWL
PROJECT ID: 5407-00-70
WITH: N/A
COUNTY: VERNON

JULY 2017

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details (Includes Erosion Control Plans)
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 = 54



DESIGN DESIGNATION

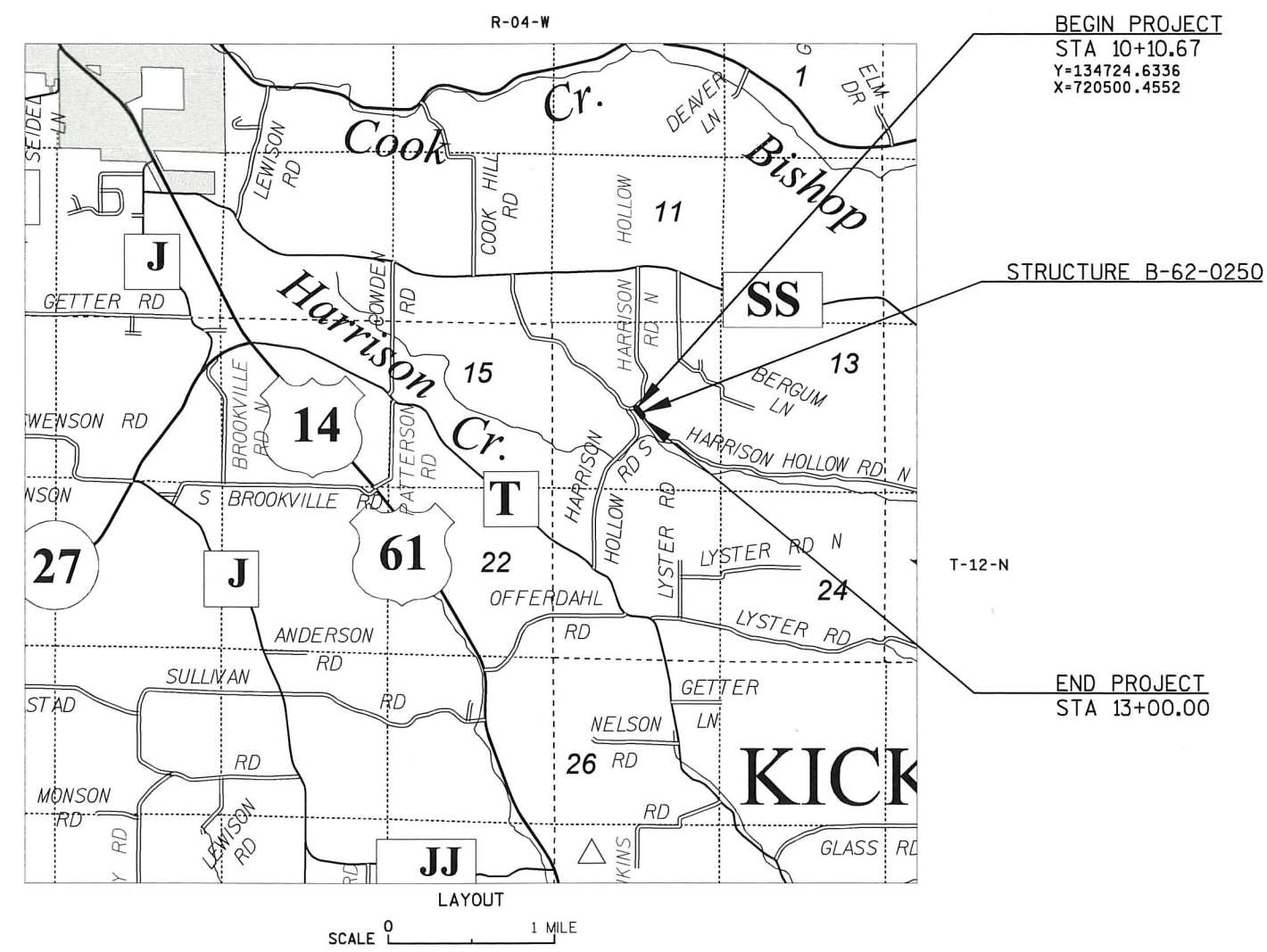
A.A.D.T. (2017)	=	< 100
A.A.D.T. (2037)	=	< 100
D.H.V.	=	N.A.
D.D.	=	50/50
T.	=	10.8%
DESIGN SPEED	=	< 25 MPH
ESALS	=	N.A.

CONVENTIONAL SYMBOLS

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT
TOWN OF VIROQUA, NORTH HARRISON HOLLOW ROAD
(HARRISON CREEK BRIDGE B-62-0250)
TOWN ROAD
VERNON COUNTY

STATE PROJECT NUMBER
5407-00-70



HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, VERNON COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5407-00-70	WISC 2017340	1

ACCEPTED FOR VERNON COUNTY
DATE: 1-20-17 *Phil Hewitt*
(Signature)
(Highway Commissioner)

ACCEPTED FOR TOWN OF VIROQUA
DATE: 1-20-17 *Phil Hewitt*
(Signature)
Town CHAIR
(Title of Official)

ORIGINAL PLANS PREPARED BY
CORRE
ERIC T. PRICE
E-39027
MADISON WI
PROFESSIONAL ENGINEER
DATE: 1/23/17 *Eric Price*
(Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PREPARED BY
Surveyor: CORRE, INC.
Designer: CORRE, INC.
Management Consultant: KL ENGINEERING

APPROVED FOR THE DEPARTMENT
DATE: 1/30/17 *Jeff McCall*
(Signature)
MANAGEMENT CONSULTANT SIGNATURE

GENERAL NOTES

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO NAV 88.

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.

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

CURVE DATA IS BASED ON THE ARC DEFINITION.

THE EXACT LOCATION OF THE EROSION CONTROL DEVICES SHALL BE DETERMINED IN THE FIELD.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE 4-INCH SALVAGED TOPSOILED, FERTILIZED, AND SEEDED AND MULCHED.

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

A VERTICAL SAWCUT SHALL BE MADE THROUGH EXISTING PAVEMENTS AT REMOVAL LIMITS.

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS COMMON EXCAVATION.

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

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

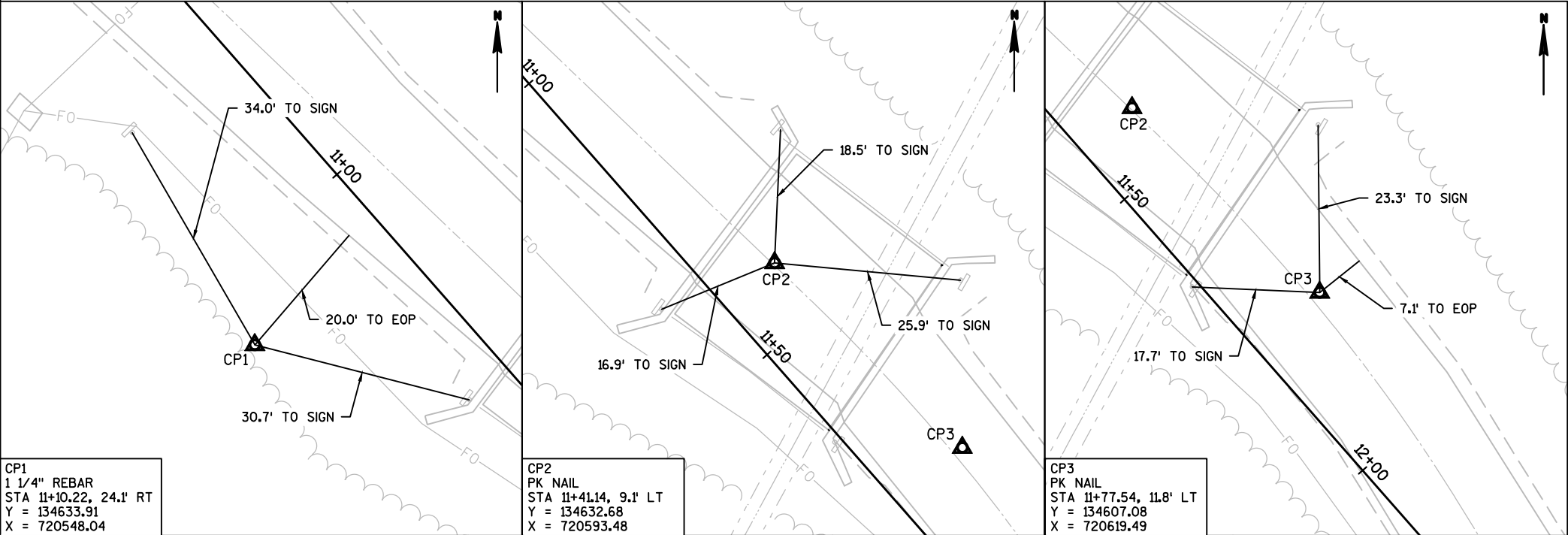
WETLANDS EXIST WITHIN THE PROJECT LIMITS. DO NOT OPERATE MACHINERY OUTSIDE OF THE SLOPE INTERCEPTS.

4-INCH ASPHALTIC SURFACE SHALL BE CONSTRUCTED IN 2 EQUAL LIFTS.

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE-TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 0.38 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.64 ACRES



UTILITY CONTACTS

- * VERNON COMMUNICATIONS COOPERATIVE
TODD TUNKS
214 N MAIN ST
VIROQUA, WI 54665
MAIN: (608) 634-3136
CELL: (608) 632-0615
EMAIL: ttunkse@vernoncom.coop
- * VERNON ELECTRIC COOPERATIVE
CRAIG BUROS
110 NORTH MAIN STREET
WESTBY, WI 54667
MAIN: (608) 634-3121
CELL: (608) 632-0279
EMAIL: cburos@vernonelectric.org

* DENOTES UTILITIES THAT ARE
DIGGERS HOTLINE MEMBERS



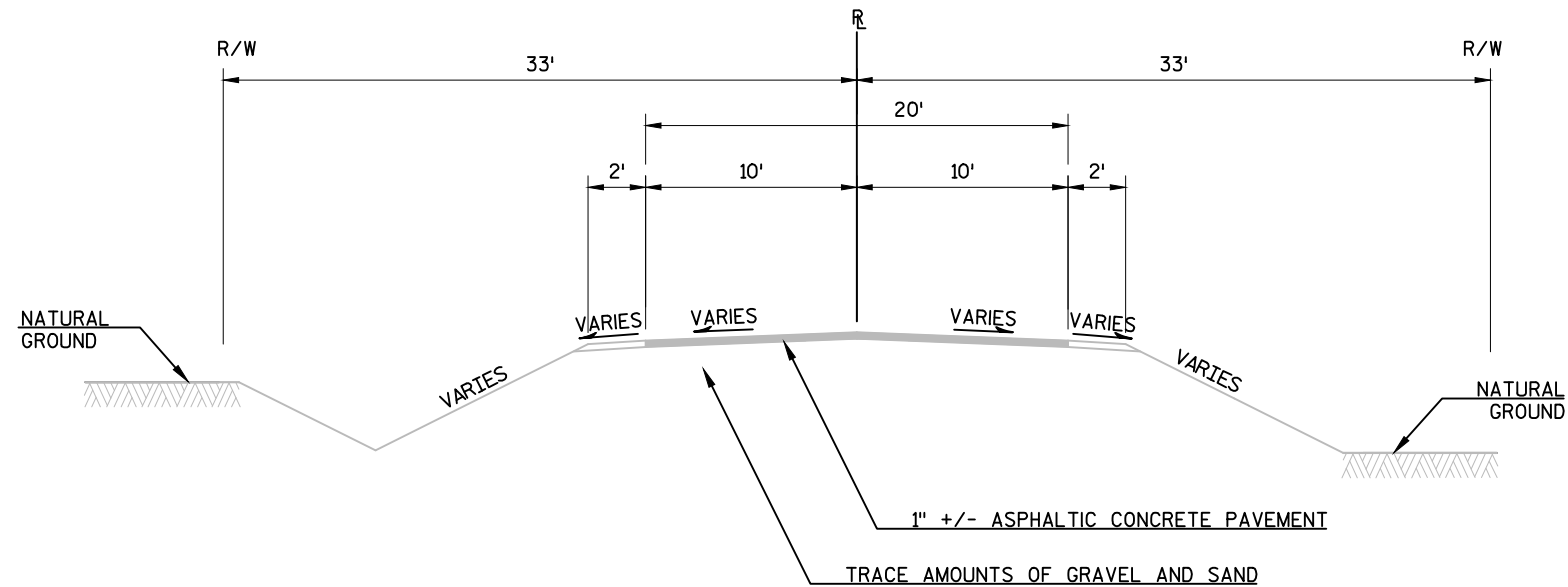
Dial 811 or (800)242-8511
www.DiggersHotline.com

DNR CONTACT

KAREN KALVELAGE
3550 MORMON COULEE RD
LA CROSSE, WI 54601
(608) 785-9115
karen.kalvelage@wisconsin.gov

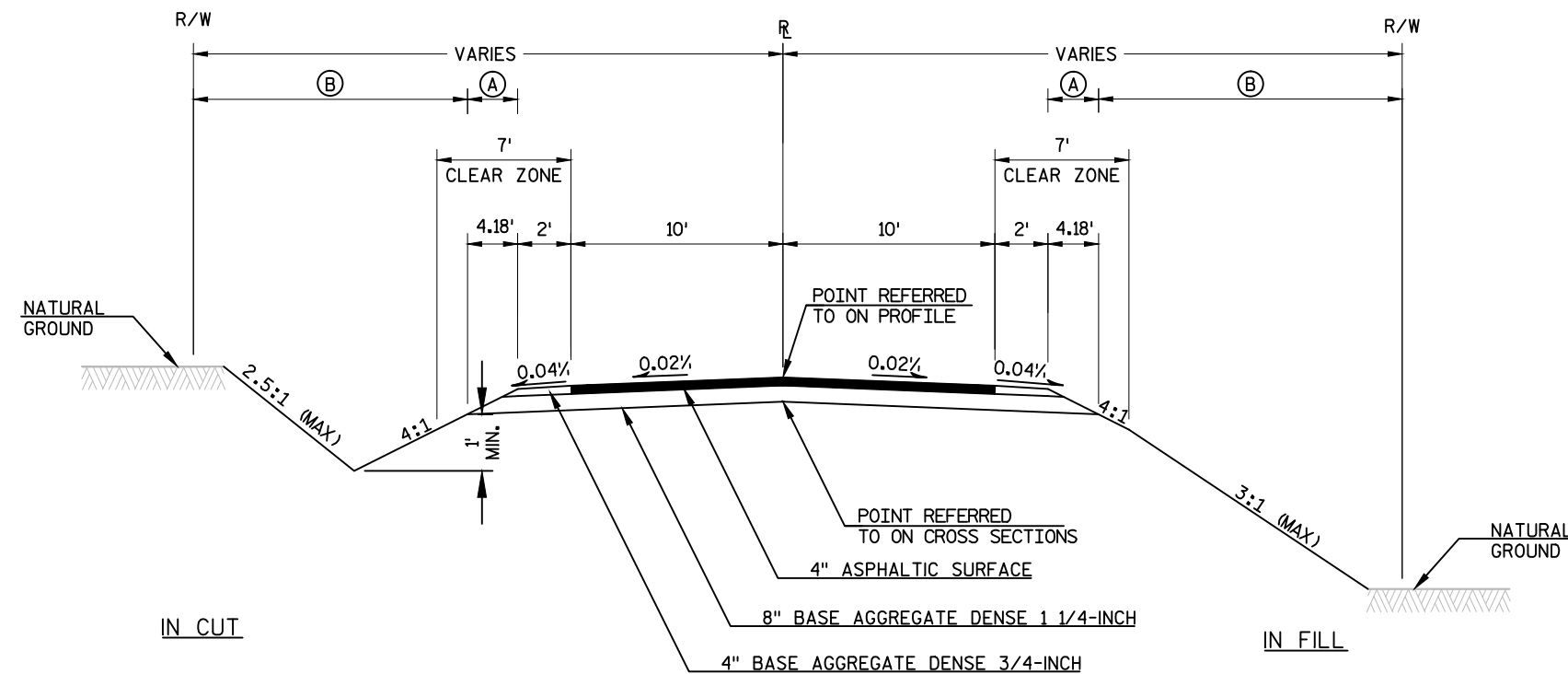
CONSULTANT CONTACT

CORRE, INC.
6510 GRAND TETON PLAZA, SUITE 314
MADISON, WI 53719
ERIC PRICE, P.E.
(608) 826-6146
eprice@correinc.com



TYPICAL EXISTING SECTION - N HARRISON HOLLOW ROAD

STA 10+10.67 - STA 11+34.20
STA 11+64.56 - STA 13.00.00

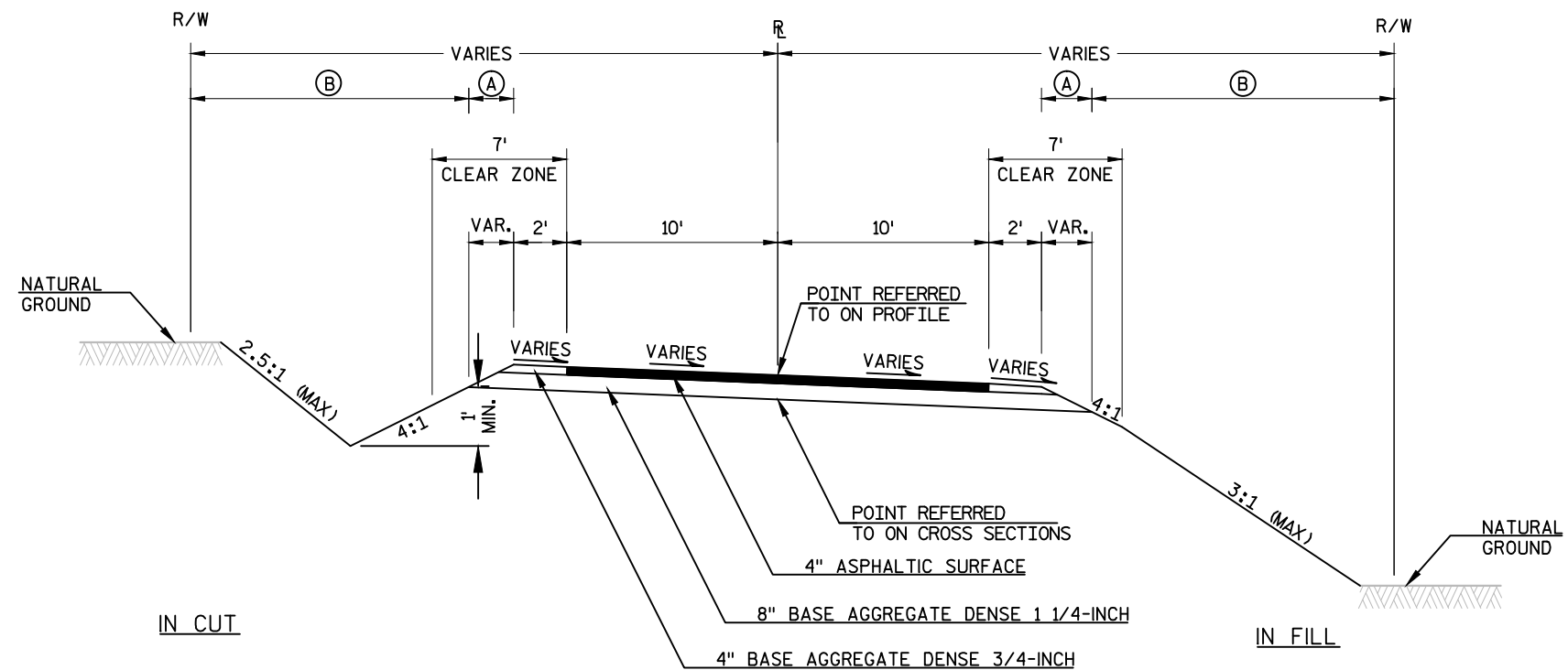


TYPICAL FINISHED SECTION - N HARRISON HOLLOW ROAD

STA 10+10.67 - STA 11+40.47

Ⓐ FERTILIZER TYPE B; SEEDING MIXTURE
NO. 20; SEEDING TEMPORARY

Ⓑ SALVAGED TOPSOIL; MULCHING;
FERTILIZER TYPE B; SEEDING MIXTURE
NO. 20; SEEDING TEMPORARY

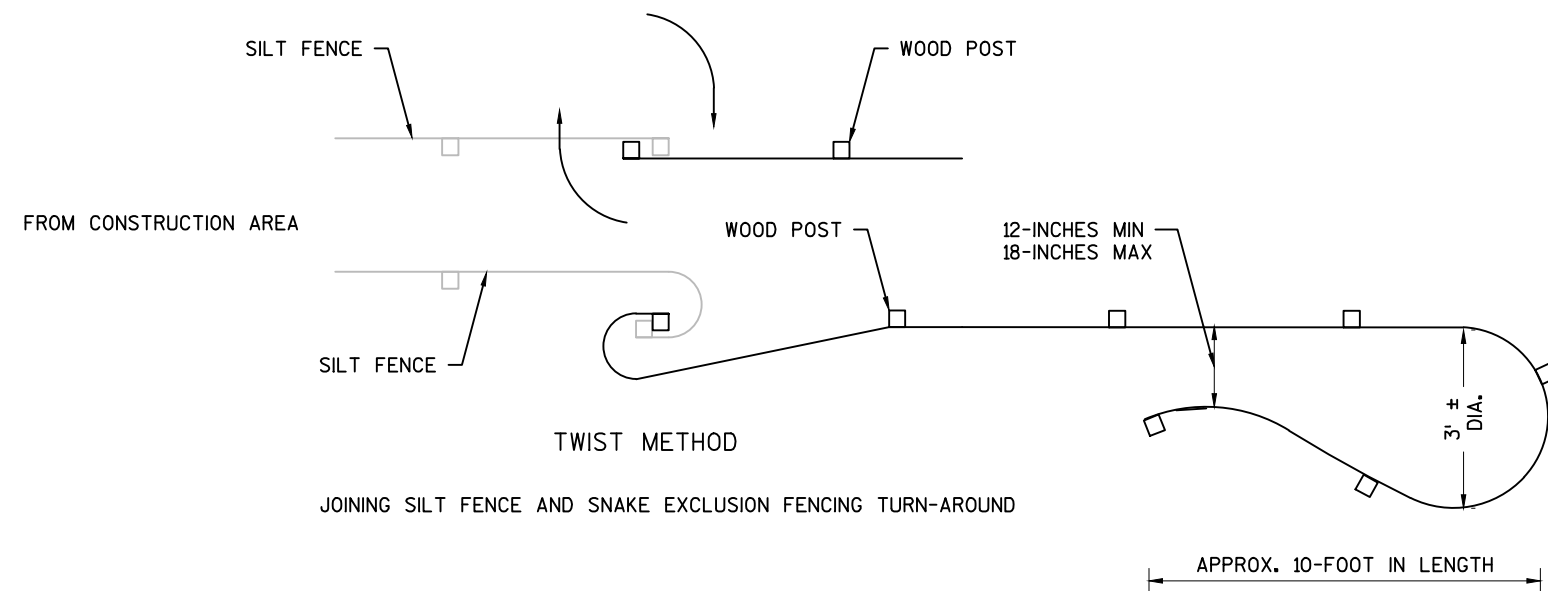


TYPICAL FINISHED SECTION - N HARRISON HOLLOW ROAD
STA 11+79.13 - STA 13+00.00

- Ⓐ FERTILIZER TYPE B; SEEDING MIXTURE
NO. 20; SEEDING TEMPORARY
- Ⓑ SALVAGED TOPSOIL; MULCHING;
FERTILIZER TYPE B; SEEDING MIXTURE
NO. 20; SEEDING TEMPORARY

SUPERELEVATION

STATION	DESCRIPTION	LEFT		RIGHT	
		SHOULDER	LANE	LANE	SHOULDER
11+43.18	END NORMAL CROWN	-4.00%	-2.00%	-2.00%	-4.00%
11+79.40	LEVEL CROWN	-4.00%	0.00%	-2.00%	-4.00%
12+15.61	REVERSE CROWN	-4.00%	2.00%	-2.00%	-4.00%
12+46.40	BEGIN FULL SUPER	-4.00%	3.70%	-3.70%	-4.00%
12+53.39	END FULL SUPER	-4.00%	3.70%	-3.70%	-4.00%
12+84.18	REVERSE CROWN	-4.00%	2.00%	-3.70%	-4.00%

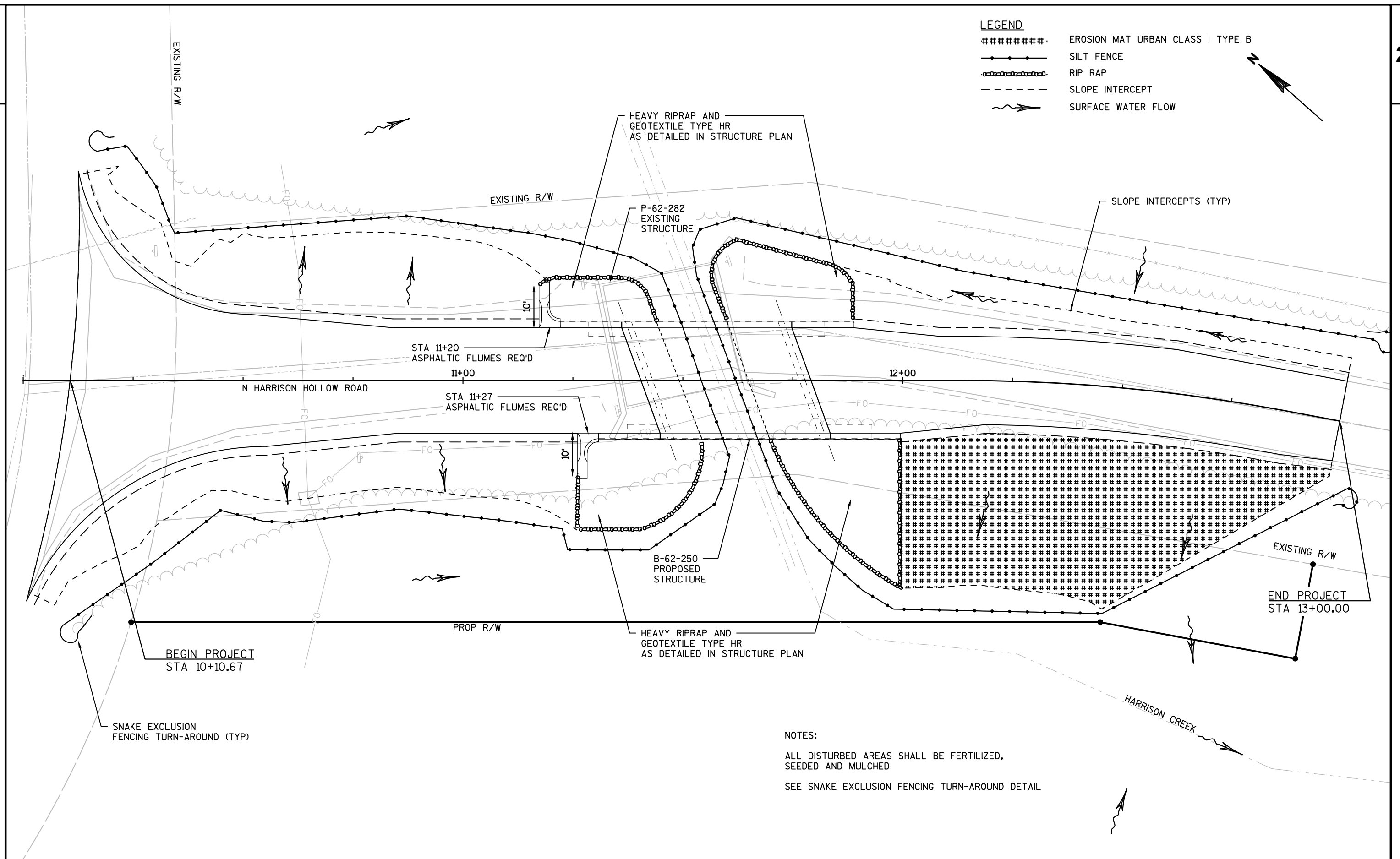


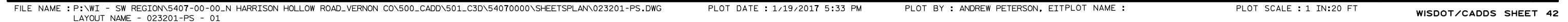
SNAKE EXCLUSION FENCING TURN-AROUND DETAIL

NOTES:

SNAKE EXCLUSION FENCING TURN-AROUND SHALL BE INCIDENTAL TO BID ITEM "SILT FENCE"

SILT FENCE STAKES SHALL BE INSTALLED AS TYPICAL WITHIN THE CONSTRUCTION AREA. WITHIN THE SNAKE EXCLUSION FENCING TURN-AROUND END TREATMENT, STAKES SHALL BE PLACED ON THE CONSTRUCTION SIDE.





Estimate Of Quantities

5407-00-70					
Line	Item	Item Description	Unit	Total	Qty
0010	201.0105	Clearing	STA	3.000	3.000
0020	201.0205	Grubbing	STA	3.000	3.000
0030	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 11+60	LS	1.000	1.000
0040	205.0100	Excavation Common **P**	CY	131.000	131.000
0050	206.1000	Excavation for Structures Bridges (structure) 01. B-62-250	LS	1.000	1.000
0060	208.0100	Borrow	CY	549.000	549.000
0070	210.1500	Backfill Structure Type A	TON	490.000	490.000
0080	213.0100	Finishing Roadway (project) 01. 5407-00-70	EACH	1.000	1.000
0090	305.0110	Base Aggregate Dense 3/4-Inch	TON	30.000	30.000
0100	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	380.000	380.000
0110	455.0605	Tack Coat	GAL	53.000	53.000
0120	465.0105	Asphaltic Surface	TON	175.000	175.000
0130	465.0315	Asphaltic Flumes	SY	14.000	14.000
0140	502.0100	Concrete Masonry Bridges	CY	166.000	166.000
0150	502.3200	Protective Surface Treatment	SY	107.000	107.000
0160	502.3210	Pigmented Surface Sealer	SY	57.000	57.000
0170	505.0400	Bar Steel Reinforcement HS Structures	LB	4,100.000	4,100.000
0180	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	20,400.000	20,400.000
0190	516.0500	Rubberized Membrane Waterproofing	SY	18.000	18.000
0200	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	210.000	210.000
0210	606.0300	Riprap Heavy	CY	260.000	260.000
0220	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	115.000	115.000
0230	619.1000	Mobilization	EACH	1.000	1.000
0240	624.0100	Water	MGAL	5.000	5.000
0250	625.0500	Salvaged Topsoil **P**	SY	530.000	530.000
0260	627.0200	Mulching **P**	SY	230.000	230.000
0270	628.1504	Silt Fence	LF	790.000	790.000
0280	628.1520	Silt Fence Maintenance	LF	790.000	790.000
0290	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000
0300	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0310	628.2008	Erosion Mat Urban Class I Type B	SY	300.000	300.000
0320	629.0210	Fertilizer Type B	CWT	0.500	0.500
0330	630.0120	Seeding Mixture No. 20 **P**	LB	24.000	24.000
0340	630.0200	Seeding Temporary **P**	LB	24.000	24.000
0350	633.5100	Markers Row	EACH	7.000	7.000
0360	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	8.000	8.000
0370	637.2210	Signs Type II Reflective H	SF	11.180	11.180
0380	637.2230	Signs Type II Reflective F	SF	28.430	28.430

Estimate Of Quantities

5407-00-70					
Line	Item	Item Description	Unit	Total	Qty
0390	638.2602	Removing Signs Type II	EACH	5.000	5.000
0400	638.3000	Removing Small Sign Supports	EACH	5.000	5.000
0410	642.5001	Field Office Type B	EACH	1.000	1.000
0420	643.0100	Traffic Control (project) 01. 5407-00-70	EACH	1.000	1.000
0430	643.0420	Traffic Control Barricades Type III	DAY	1,472.000	1,472.000
0440	643.0705	Traffic Control Warning Lights Type A	DAY	2,208.000	2,208.000
0450	643.0900	Traffic Control Signs	DAY	828.000	828.000
0460	645.0120	Geotextile Type HR	SY	325.000	325.000
0470	650.4500	Construction Staking Subgrade	LF	250.000	250.000
0480	650.5000	Construction Staking Base	LF	250.000	250.000
0490	650.6500	Construction Staking Structure Layout (structure) 01. B-62-250	LS	1.000	1.000
0500	650.9910	Construction Staking Supplemental Control (project) 01. 5407-00-70	LS	1.000	1.000
0510	650.9920	Construction Staking Slope Stakes	LF	289.000	289.000
0520	690.0150	Sawing Asphalt	LF	114.000	114.000
0530	715.0502	Incentive Strength Concrete Structures	DOL	996.000	996.000

3

3

Division	From/To Station	LOCATION	Common Excavation (1)	Salvaged/Unusable Pavement Material (3)	Available Material (4)	Unexpanded Fill	Expanded Fill (5)	Mass Ordinate +/- (6)	Waste	Borrow (item #208.0100)	Comment:
			Cut (2)				Factor 1.25				
N. Harrison Hollow Rd.											
	10+11/11+31	MAINLINE	102	9	93	63	79	14	14	0	West of bridge.
	11+89/13+00	MAINLINE	29	4	25	460	575	-549	0	549	East of bridge.
Grand Total			131	12	118	523	654	-535	14	549	
			▲ Total Common Exc 131								

1) 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

Expanded Fill = (Unexpanded Fill) * Fill Factor

6) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material w ithin the Division. Minus indicates a shortage of material w ithin the Division.
7) Use 118 CY of material from Division 1. Borrow Excavation item number 208.0100

PAY PLAN QUANTITY

CLEARING AND GRUBBING ITEMS			
STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
CATEGORY CODE 0010			
10+00 - 13+00	RT	3	3
TOTALS		3	3

FINISHING ROADWAY	
	213.0100 EACH
CATEGORY CODE 0010	
ID 5407-00-70	1
TOTAL	1

BASE AGGREGATE DENSE				
		305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	
STATION -	STATION	LOCATION		
CATEGORY CODE 0010				
10+10	- 11+40	MAINLINE	15	235
11+79	- 13+00	MAINLINE	15	145
TOTALS:			30	380

ASPHALTIC ITEMS				
		455.0605	465.0105	
		TACK	ASPHALTIC	
		COAT	SURFACE	
STATION - STATION	LOCATION	GAL	TON	
CATEGORY CODE 0010				
10+11 - 11+40	MAINLINE	33	110	
11+79 - 13+00	MAINLINE	20	65	
TOTALS		53	175	

ASPHALTIC FLUMES	
LOCATION	465.0315
CATEGORY CODE 0010	SY
11+20 LT	7
11+27 RT	7
TOTAL	14

WATER	
LOCATION	624.0100
CATEGORY CODE 0010	MGAL
BASE COMPACTION	5
TOTALS	5

PROJECT NO: 5407-00-70	HWY: N HARRISON HOLLOW	COUNTY: VERNON	MISCELLANEOUS QUANTITIES	SHEET	E
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3

LANDSCAPING ITEMS								
			625.0500	627.0200	628.2008	629.0210	630.0120	630.0200
			SALVAGED	MULCHING	EROSION MAT	FERTILIZER	SEEDING	SEEDING
			TOPSOIL	SY	URBAN	TYPE B	MIXTURE	TEMPORARY
			SY		CLASS I TYPE B	CWT	NO. 20	LB
			SY		SY		LB	
STATION	-	STATION LOCATION						
CATEGORY CODE 0010								
10+11	-	11+20 LT	120	120	--	0.1	6	6
10+11	-	11+25 RT	90	90	--	0.1	5	5
11+85	-	13+00 LT	20	20	--	0.1	3	3
12+00	-	13+00 RT	300	--	300	0.2	10	10
TOTALS			530	230	300	0.5	24	24

▲ PAY PLAN QUANTITY

3

REMOVING SIGN ITEMS					
			638.2602	638.3000	
			REMOVING SIGNS	REMOVING SMALL	
			TYPE II	SIGN SUPPORTS	
			EACH	EACH	SIGN MESSAGE
STATION	LOCATION	SIGN NUMBER			
CATEGORY CODE 0010					
11+28	LT	201A	1	1	BRIDGE HASH MARKS
11+36	RT	202A	1	1	BRIDGE HASH MARKS
11+60	LT	203A	1	1	BRIDGE HASH MARKS
11+65	RT	204A	1	1	BRIDGE HASH MARKS
10+77	RT	205A	1	1	15 TON BRIDGE 1 1/4 MILES AHEAD
TOTALS			5	5	

SIGNING ITEMS

					634.0612	637.2210	637.2230		
					POSTS WOOD	SIGNS TYPE II	SIGNS TYPE II		
					4X6-INCH X 12-FT	REFLECTIVE H	REFLECTIVE F		
STATION	LOCATION	SIGN	SIGN	SIZE	EACH	SF	SF	SIGN MESSAGE	
CATEGORY CODE 0010		NUMBER	CODE						
11+22	LT	201	W5-52L	12" X 36"	1	--	3.00	BRIDGE HASH MARKS	
11+31	RT	202	W5-52R	12" X 36"	1	--	3.00	BRIDGE HASH MARKS	
11+89	LT	203	W5-52R	12" X 36"	1	--	3.00	BRIDGE HASH MARKS	
12+00	RT	204	W5-52L	12" X 36"	1	--	3.00	BRIDGE HASH MARKS	
10+78	RT	205	R12-55	48" X 18"	1	6.00	--	15 TON BRIDGE 1 1/4 MILES AHEAD	
10+29	LT	206	R1-1	30" X 30"	1	5.18	--	STOP	
13+00	LT	207	W3-1	36" X 36"	1	--	9.00	STOP AHEAD	
15+12	LT	208	W13-1	18" X 18"	1	--	2.25	20 M.P.H.	
15+12	LT	209	W1-2L	30" X 30"		--	5.18	CURVE LEFT	
TOTALS					8	11.18	28.43		

SILT FENCE

					MOBILIZATIONS	
					628.1504	628.1910
					SILT FENCE	EROSION
					LF	CONTROL
						EACH
STATION	-	STATION LOCATION				
CATEGORY CODE 0010						
10+11	-	11+50 LT & RT	390	390	0.5	0.5
11+50	-	13+00 LT & RT	400	400	0.5	0.5
TOTALS					790	1

PROJECT NO: 5407-00-70

HWY: N HARRISON HOLLOW COUNTY: VERNON

MISCELLANEOUS QUANTITIES

SHEET

E

3

MARKERS ROW

STATION	LOCATION	633.5100 EACH
CATEGORY CODE 0010		
10+25	55' RT	1
10+35	35' LT	1
11+79	45' LT	1
12+50	54' RT	1
13+00	55' RT	1
13+00	33' RT	1
13+00	33' LT	1
TOTALS		7

FIELD OFFICE TYPE B

	642.5001 EACH
CATEGORY CODE 0010	
PROJECT	1
TOTAL 1	

CONSTRUCTION STAKING ITEMS

STATION - STATION	LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.6500* STRUCTURE LAYOUT LS	650.9910 SUPPLEMENTAL CONTROL LS	650.9920 SLOPE STAKES LF
CATEGORY CODE 0010						
10+11 - 11+40	MAINLINE	129	129		1	129
11+40 - 11+79	BRIDGE			1		39
11+79 - 13+00	MAINLINE	121	121			121
TOTALS		250	250	1	1	289

* PAID FOR UNDER CATEGORY 0020

3

TRAFFIC CONTROL ITEMS

LOCATION	643.0100 TRAFFIC CONTROL 5407-00-70 EACH	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.0900 SIGNS DAYS
CATEGORY CODE 0010				
PROJECT	1	1,472	2,208	828
TOTALS				
	1	1,472	2,208	828

SAWING PAVEMENT

STATION	LOCATION	690.0150 ASPHALT LF
CATEGORY CODE 0010		
10+11	MAINLINE	96
13+00	MAINLINE	18
TOTALS		114

CONVENTIONAL SYMBOLS

SECTION LINE		SECTION CORNER SYMBOL		R/W MONUMENT (TO BE SET)	
QUARTER LINE		SECTION CORNER MONUMENT		NON-MONUMENTED R/W POINT	
SIXTEENTH LINE		GEODETIC SURVEY MONUMENT		FOUND IRON PIN (1-INCH UNLESS NOTED)	
NEW REFERENCE LINE		SIXTEENTH CORNER MONUMENT		OFF-PREMISE SIGN	
NEW R/W LINE		SIGN		COMPENSABLE	
EXISTING R/W OR HE LINE		PARCEL NUMBER		NON-COMPENSABLE	
PROPERTY LINE		UTILITY NUMBER			
LOT, TIE & OTHER MINOR LINES		PARALLEL OFFSETS			
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					
BRIDGE					

CONVENTIONAL ABBREVIATIONS

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

CURVE DATA

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

CONVENTIONAL UTILITY SYMBOLS

WATER	
GAS	
TELEPHONE	
OVERHEAD	
TRANSMISSION LINES	
ELECTRIC	
CABLE TELEVISION	
FIBER OPTIC	
SANITARY SEWER	
STORM SEWER	

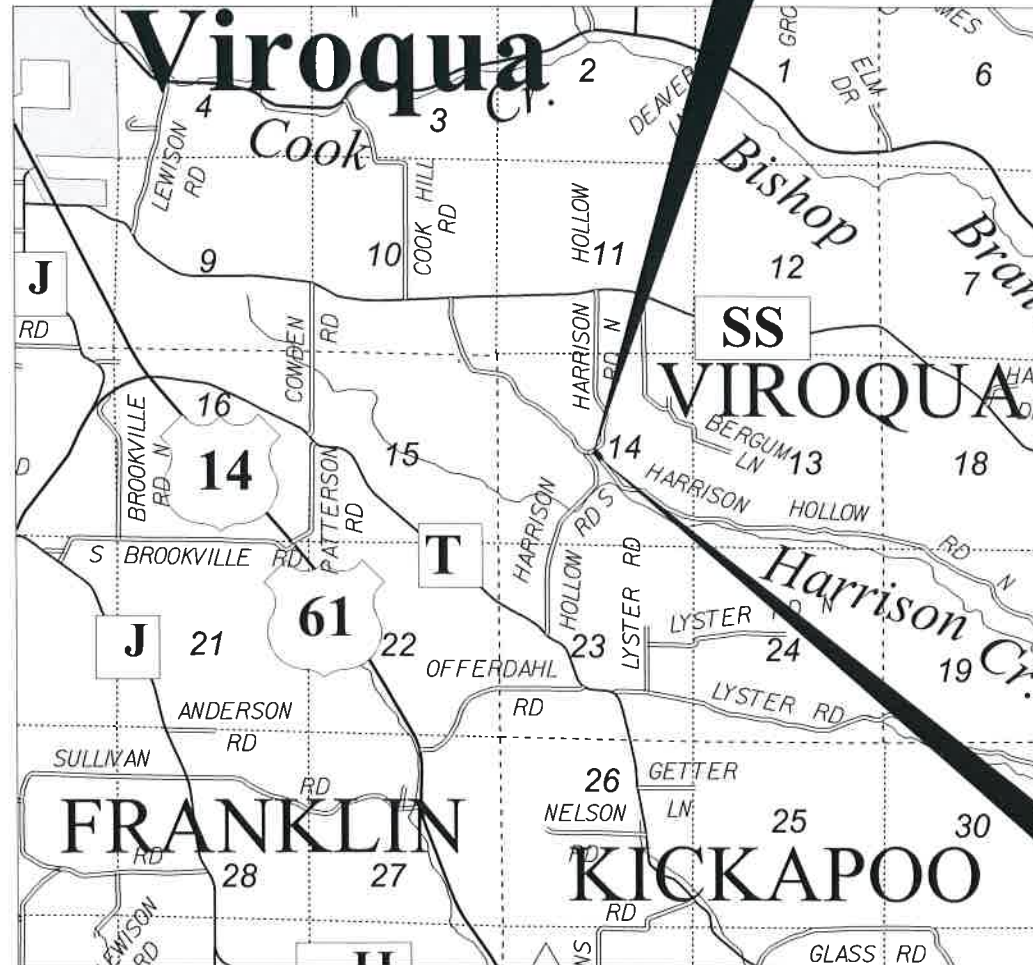
NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), VERNON COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT OF WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

CAUTION
THIS PLAT IS FOR ILLUSTRATIVE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES.



BEGIN RELOCATION ORDER
STA 10+24.52
2562.68' SOUTH AND 22.56' WEST OF THE
NORTH 1/4 CORNER, SECTION 14, T12N, R4W
Y = 134714.22'
X = 720509.60'

END RELOCATION ORDER
STA 13+00.00
67.30' SOUTH AND 2554.83' WEST OF THE
EAST 1/4 CORNER, SECTION 14, T12N, R4W
Y = 134501.67'
X = 720684.08'

R4W R3W

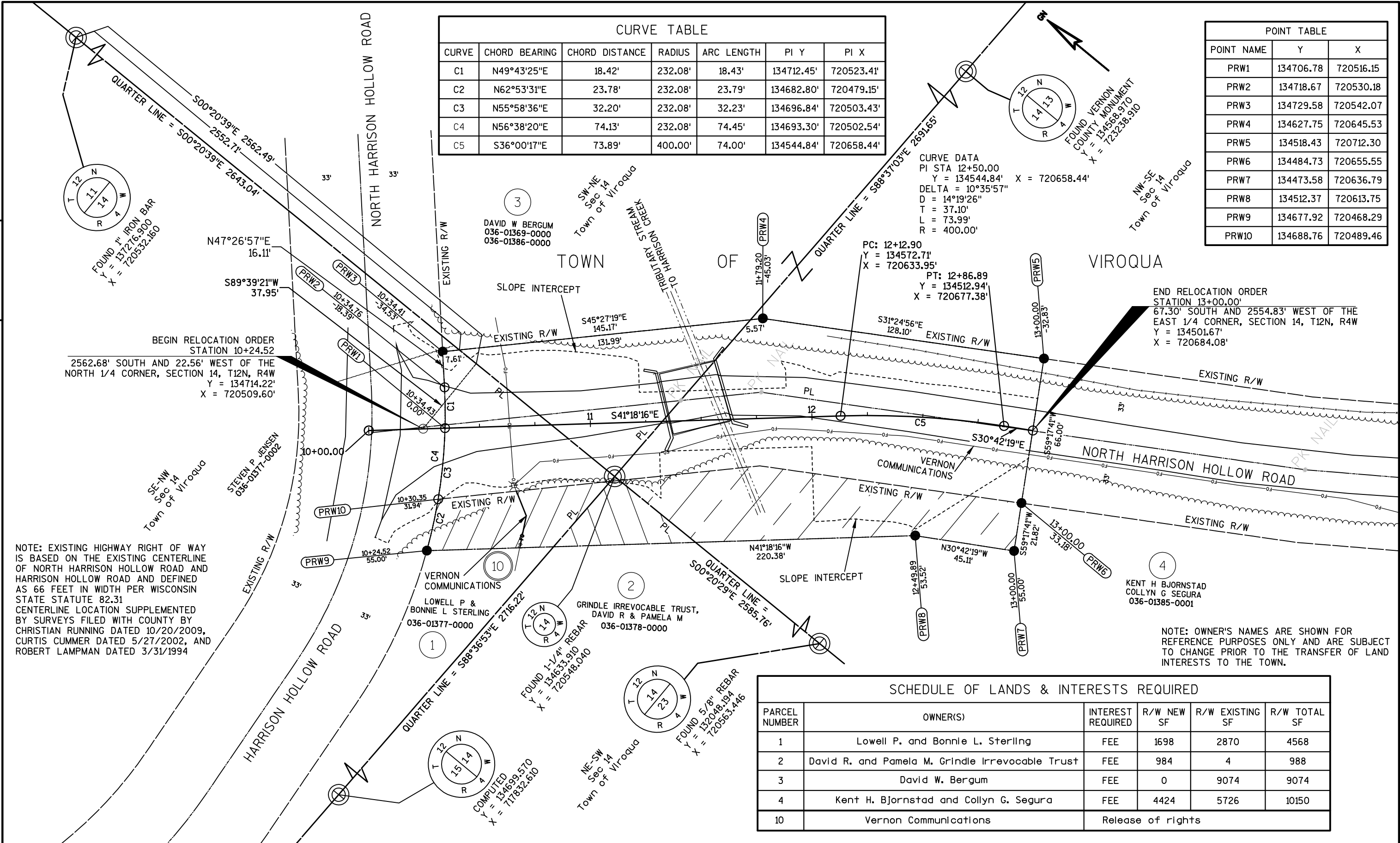
LAYOUT
SCALE 0 10 MILE

TOTAL NET LENGTH OF CENTERLINE = 0.052 MILES

R/W PROJECT NUMBER 5407-00-00	SHEET NUMBER	TOTAL SHEETS
FEDERAL PROJECT NUMBER	4.01	2

PLAT OF RIGHT OF WAY REQUIRED FOR TOWN OF VIROQUA NORTH HARRISON HOLLOW ROAD (HARRISON CREEK BRIDGE B-62-0250) TOWN ROAD VERNON CO.		
CONSTRUCTION PROJECT NUMBER	5407-00-70	

		6510 GRAND TETON PLAZA SUITE 314 MADISON, WI 53719 (608)828-1011 www.correinc.com
I, SCOTT J. KOFFARNUS, REGISTERED LAND SURVEYOR, S-2782, 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.		8-29-16
SIGNATURE		DATE
REVISION DATE		TOWN OF VIROQUA
APPROVED FOR THE TOWN		DATE: 9-1-16 Phil Hewitt (Signature)



CURVE TABLE						
CURVE	CHORD BEARING	CHORD DISTANCE	RADIUS	ARC LENGTH	PI Y	PI X
C1	N49°43'25"E	18.42'	232.08'	18.43'	134712.45'	720523.41'
C2	N62°53'31"E	23.78'	232.08'	23.79'	134682.80'	720479.15'
C3	N55°58'36"E	32.20'	232.08'	32.23'	134696.84'	720503.43'
C4	N56°38'20"E	74.13'	232.08'	74.45'	134693.30'	720502.54'
C5	S36°00'17"E	73.89'	400.00'	74.00'	134544.84'	720658.44'

POINT TABLE		
POINT NAME	Y	X
PRW1	134706.78	720516.15
PRW2	134718.67	720530.18
PRW3	134729.58	720542.07
PRW4	134627.75	720645.53
PRW5	134518.43	720712.30
PRW6	134484.73	720655.55
PRW7	134473.58	720636.79
PRW8	134512.37	720613.75
PRW9	134677.92	720468.29
PRW10	134688.76	720489.46

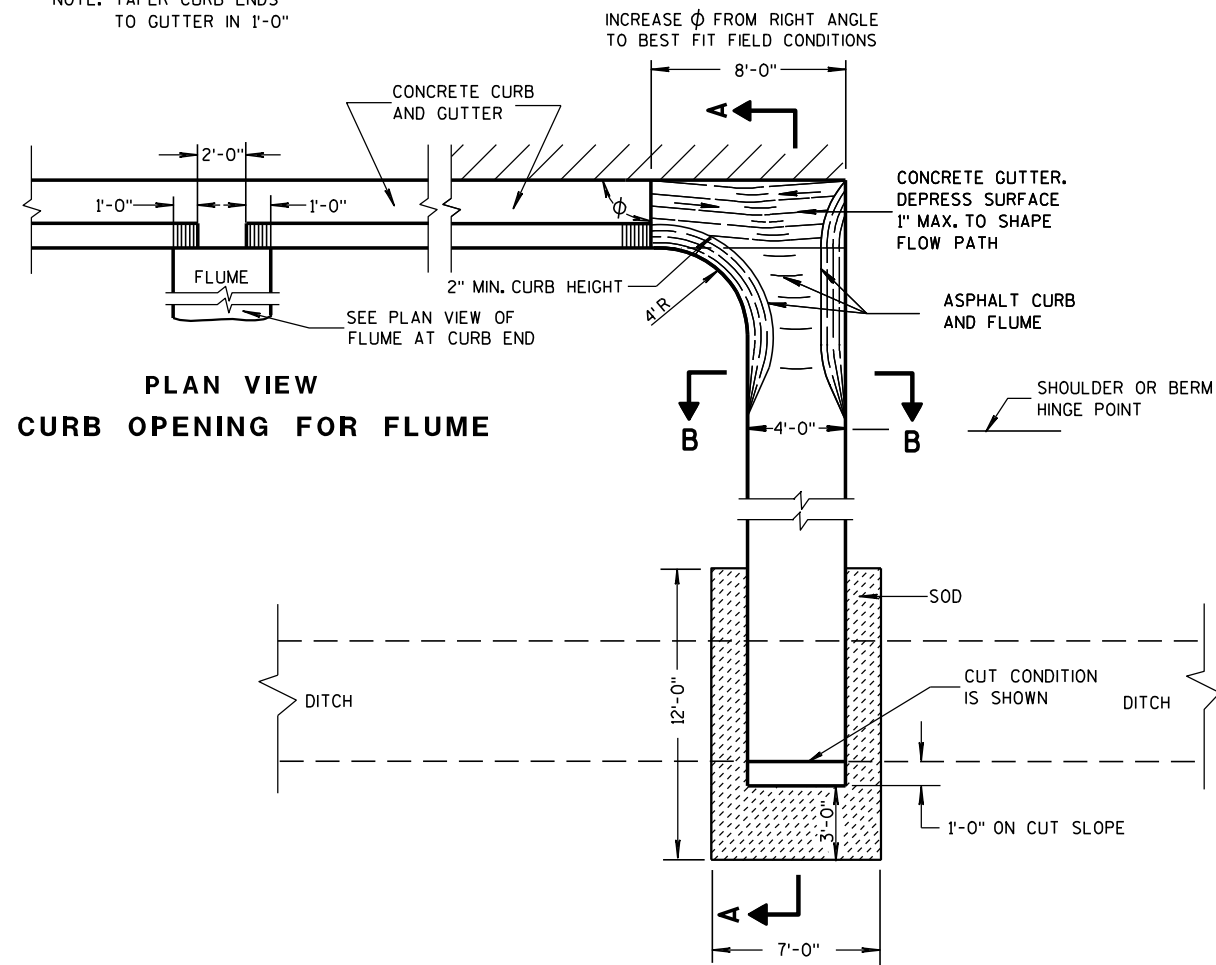
SCHEDULE OF LANDS & INTERESTS REQUIRED					
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW SF	R/W EXISTING SF	R/W TOTAL SF
1	Lowell P. and Bonnie L. Sterling	FEE	1698	2870	4568
2	David R. and Pamela M. Grindle Irrevocable Trust	FEE	984	4	988
3	David W. Bergum	FEE	0	9074	9074
4	Kent H. Bjornstad and Collyn G. Segura	FEE	4424	5726	10150
10	Vernon Communications	Release of rights			

Standard Detail Drawing List

08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
12A03-10	NAME PLATE (STRUCTURES)
15A01-13A	MARKER POST FOR RIGHT-OF-WAY
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C06-08	SIGNING & MARKING FOR TWO LANE BRIDGES

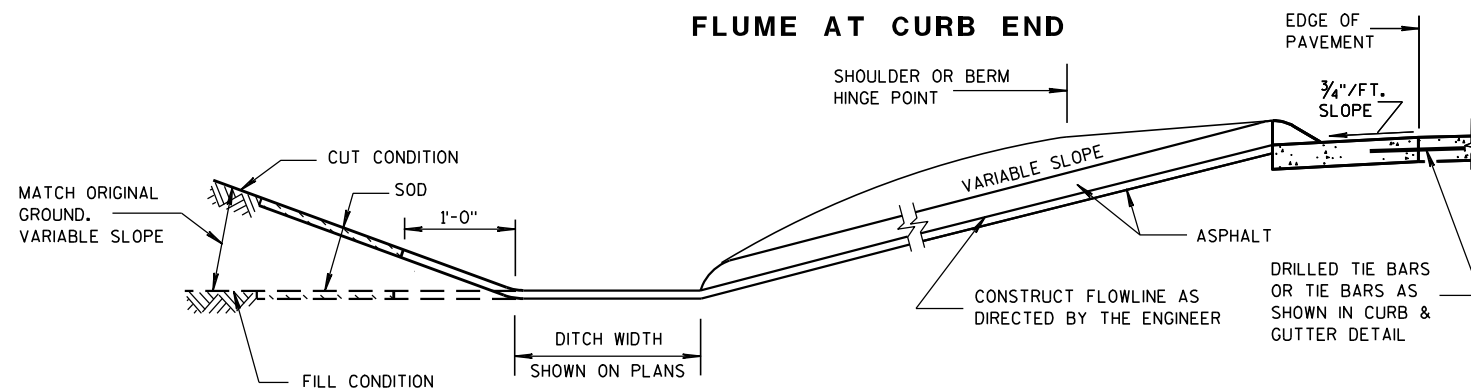
ASPHALTIC FLUME

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

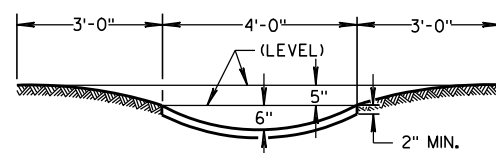


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

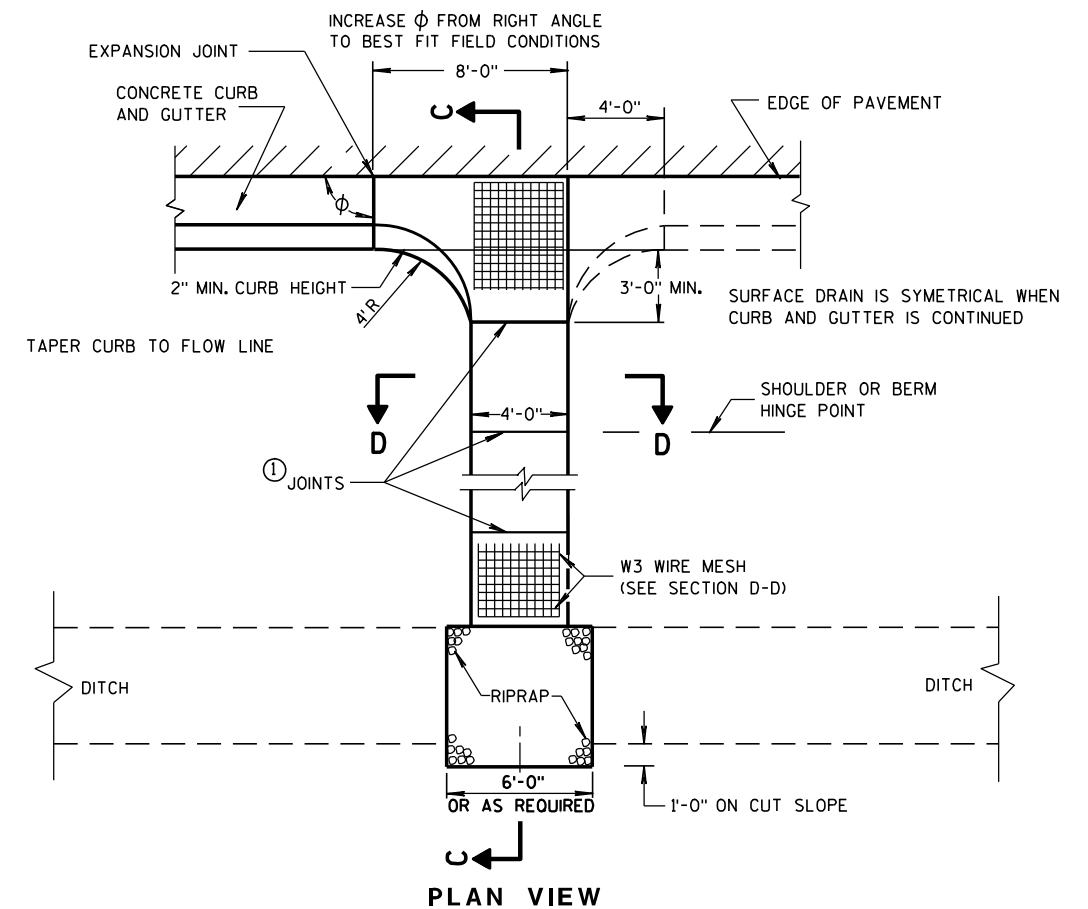
GENERAL NOTES

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

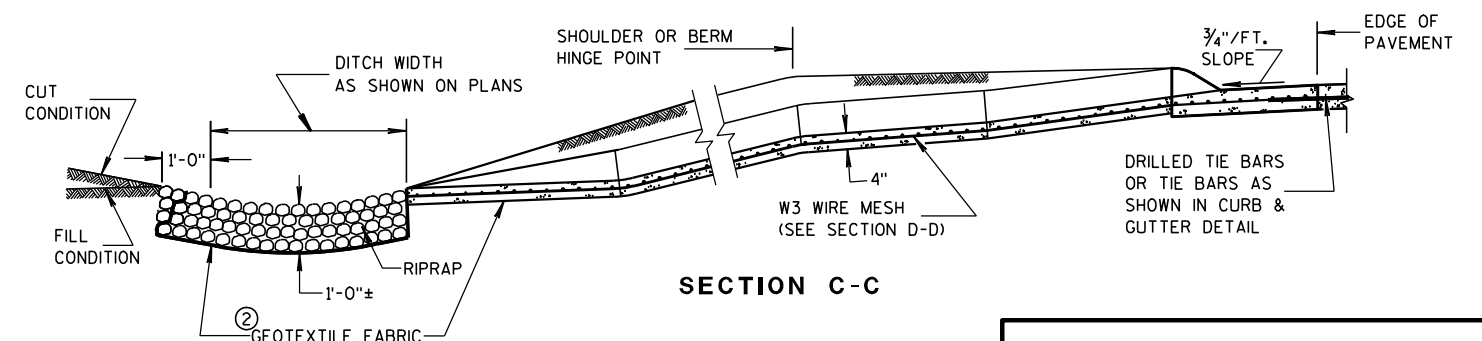
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

- ① JOINTS SHALL BE 1/8" TO 1/4" INCH WIDE BY 1 1/2" INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
- ② GEOTEXTILE FABRIC 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

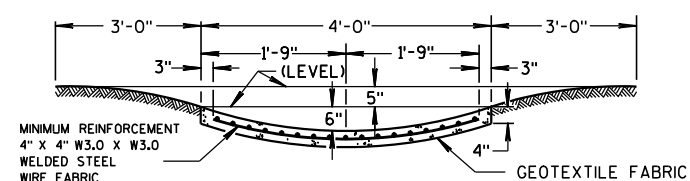
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

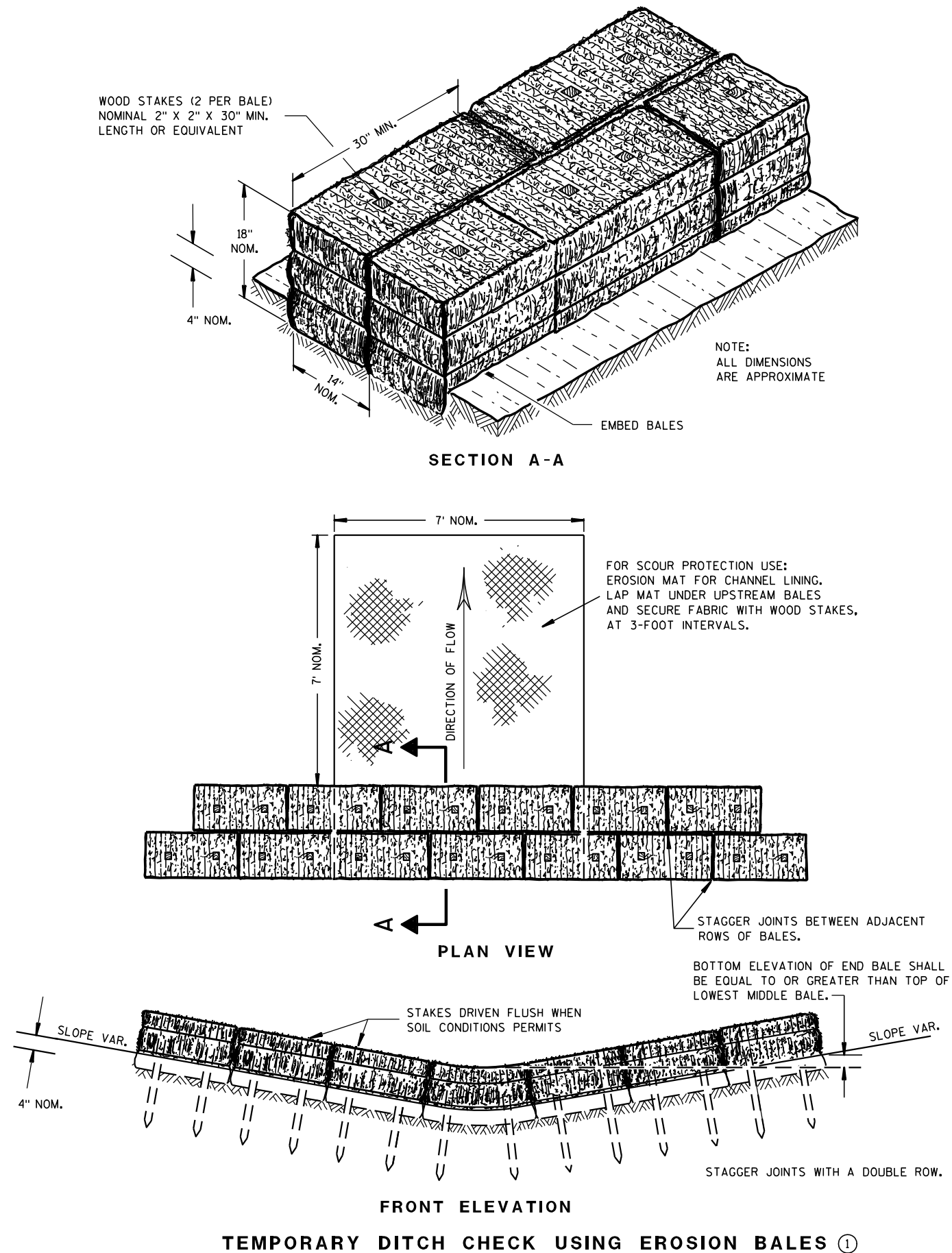
APPROVED

9-4-08

DATE

FHWA

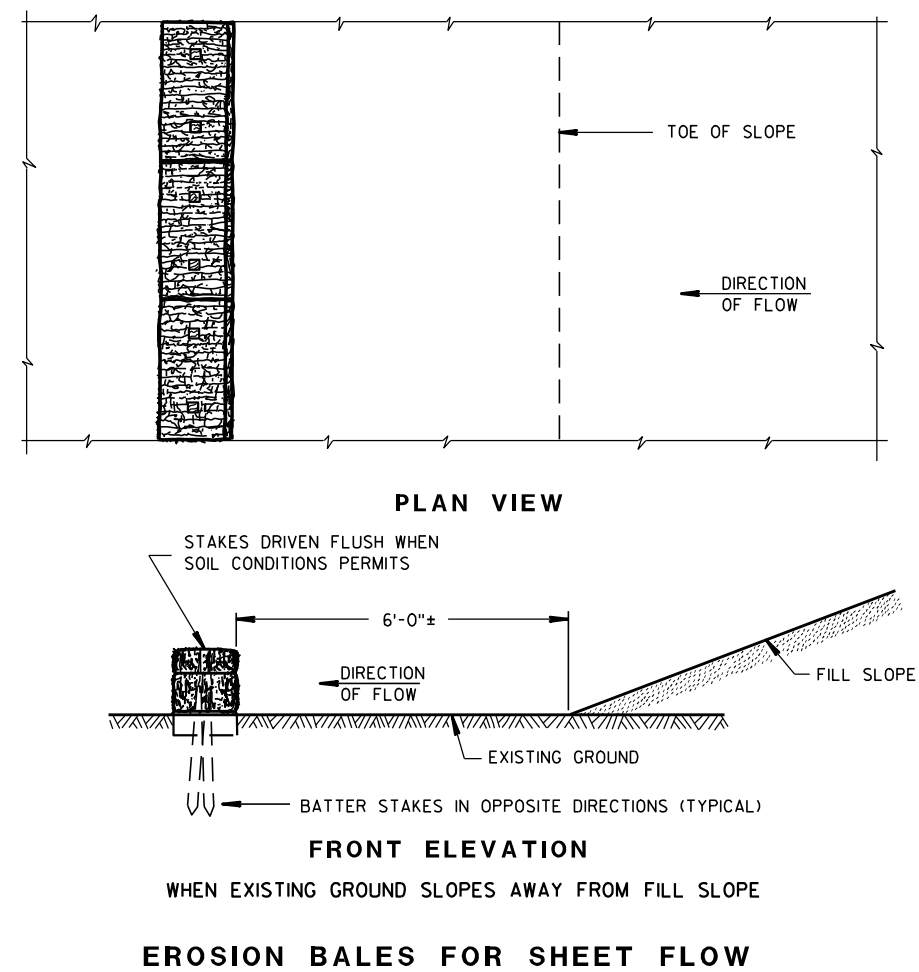
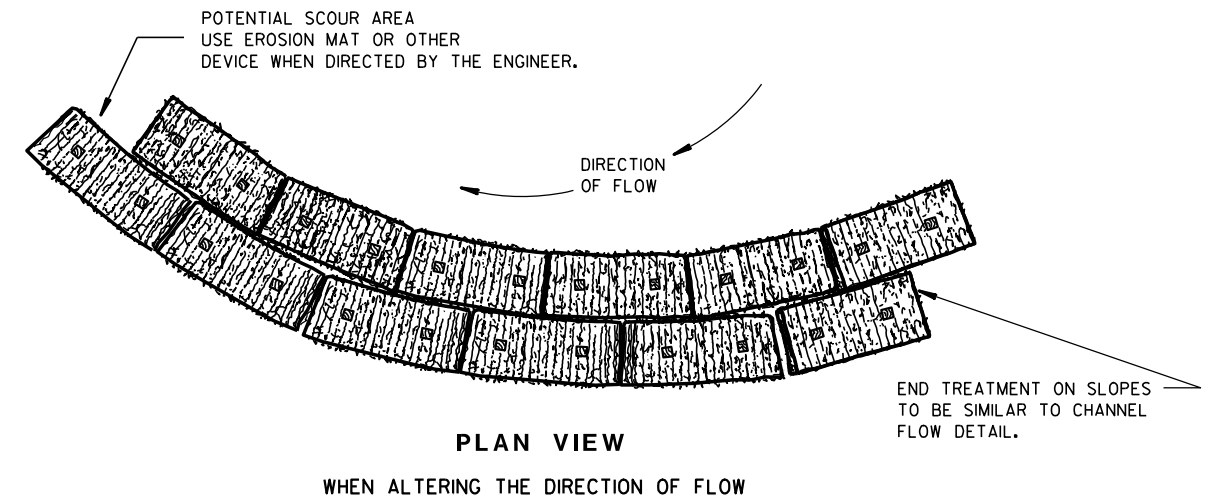
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER



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.

- ① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

TYPICAL INSTALLATIONS OF
EROSION BALES / TEMPORARY
DITCH CHECKS

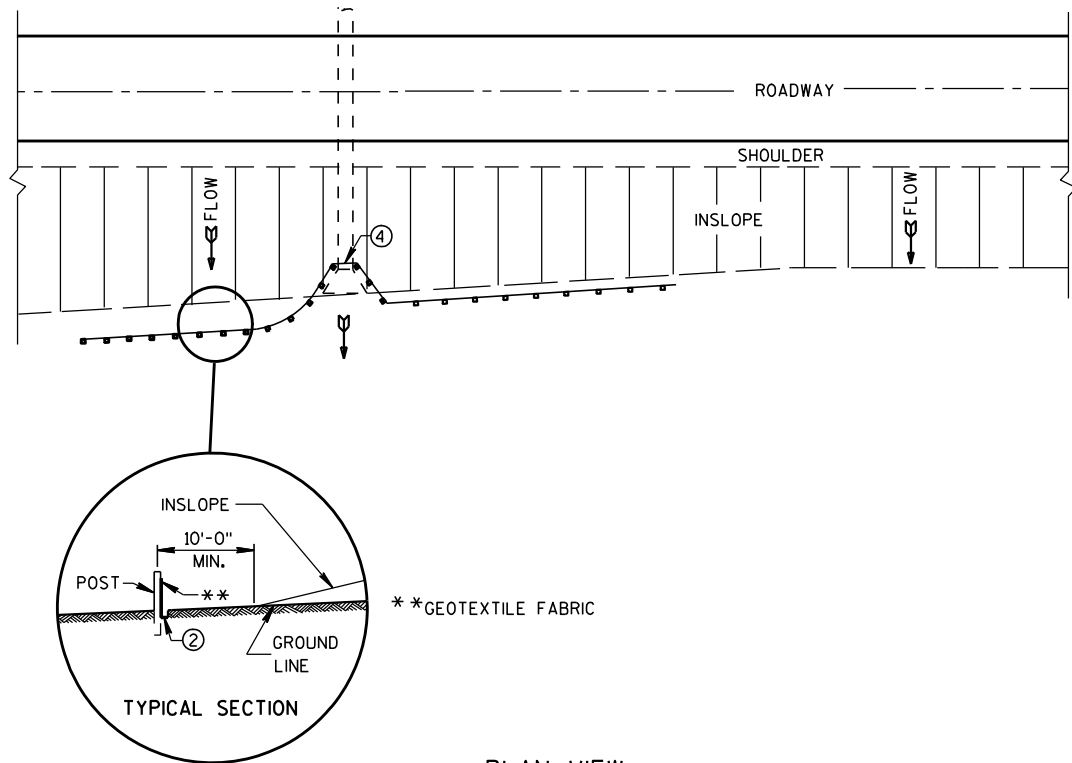
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

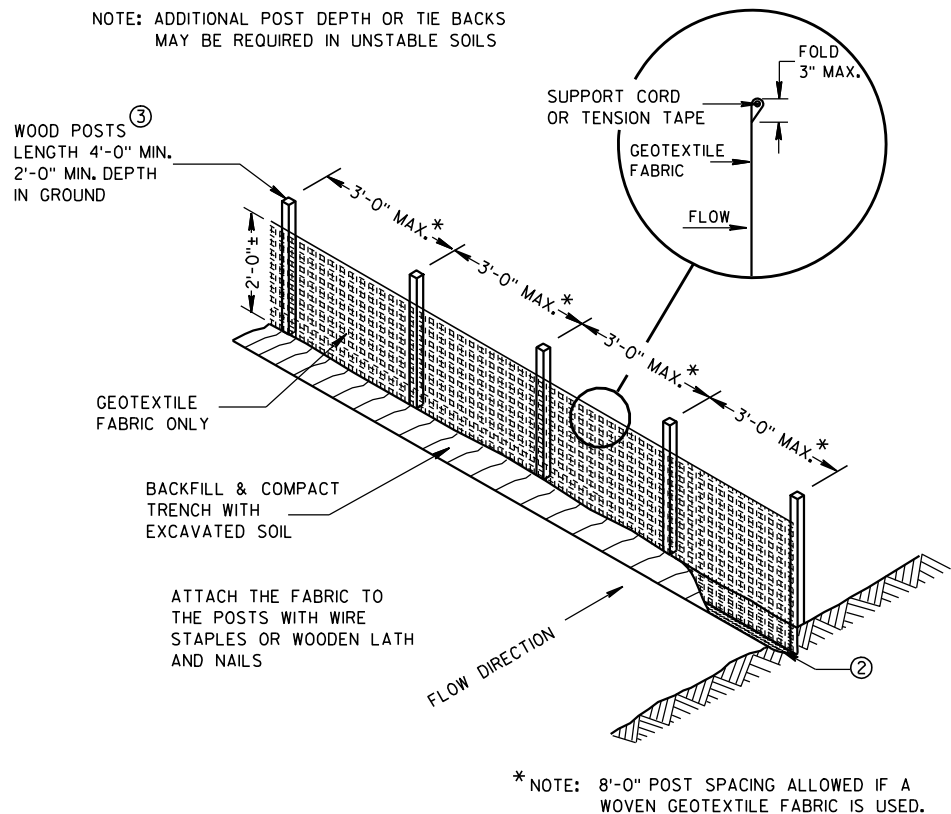
6/04/02
DATE

FHWA

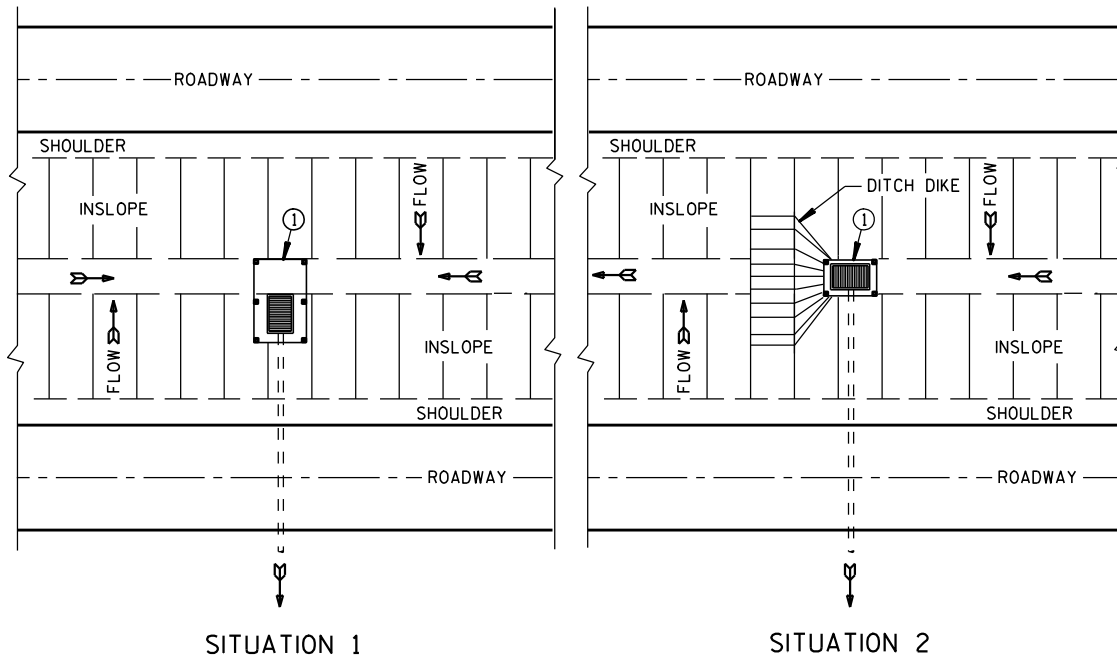
/S/ Beth Canestra
CHIEF ROADWAY DEVELOPMENT ENGINEER



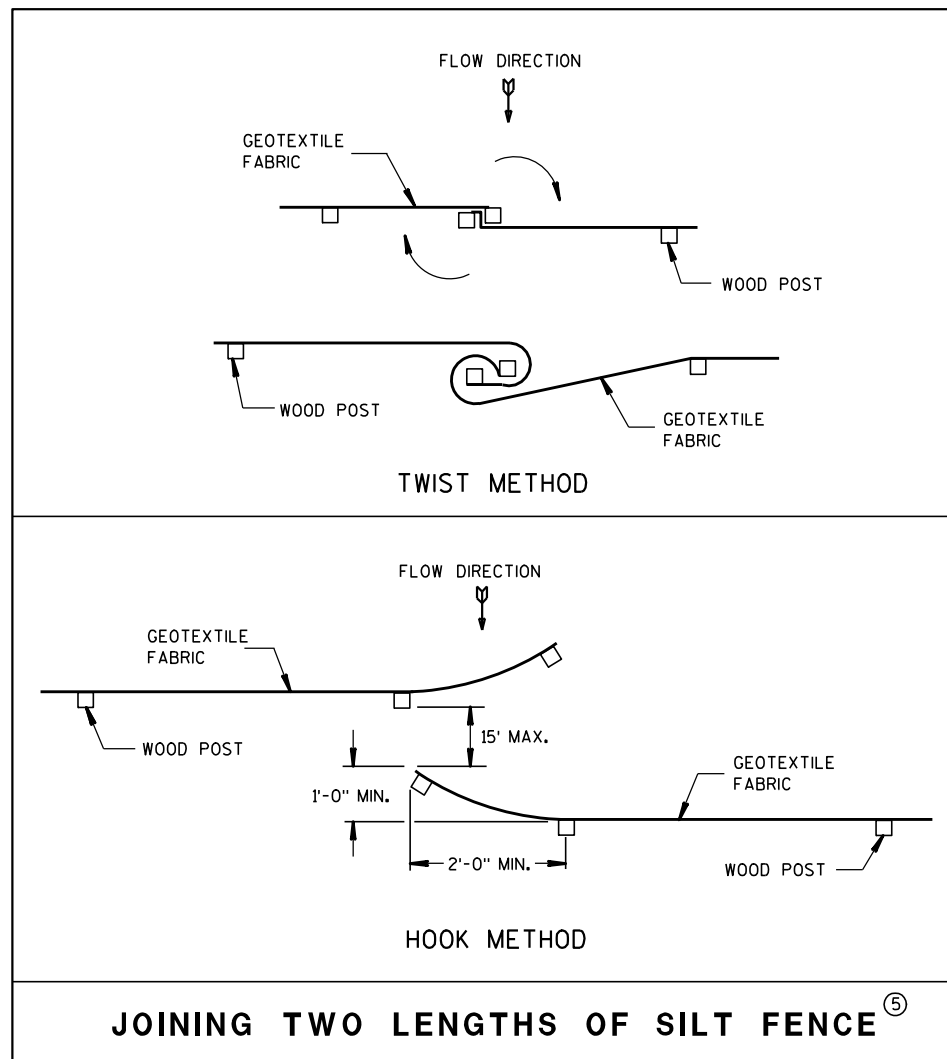
PLAN VIEW
TYPICAL APPLICATION OF SILT FENCE



SILT FENCE



PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS

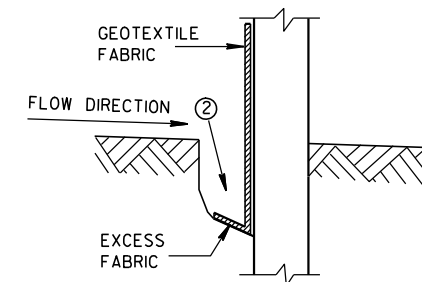


JOINING TWO LENGTHS OF SILT FENCE^⑤

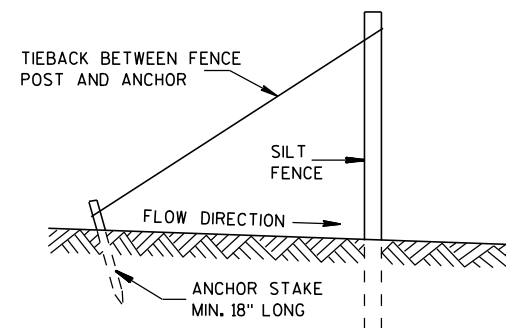
GENERAL NOTES

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.

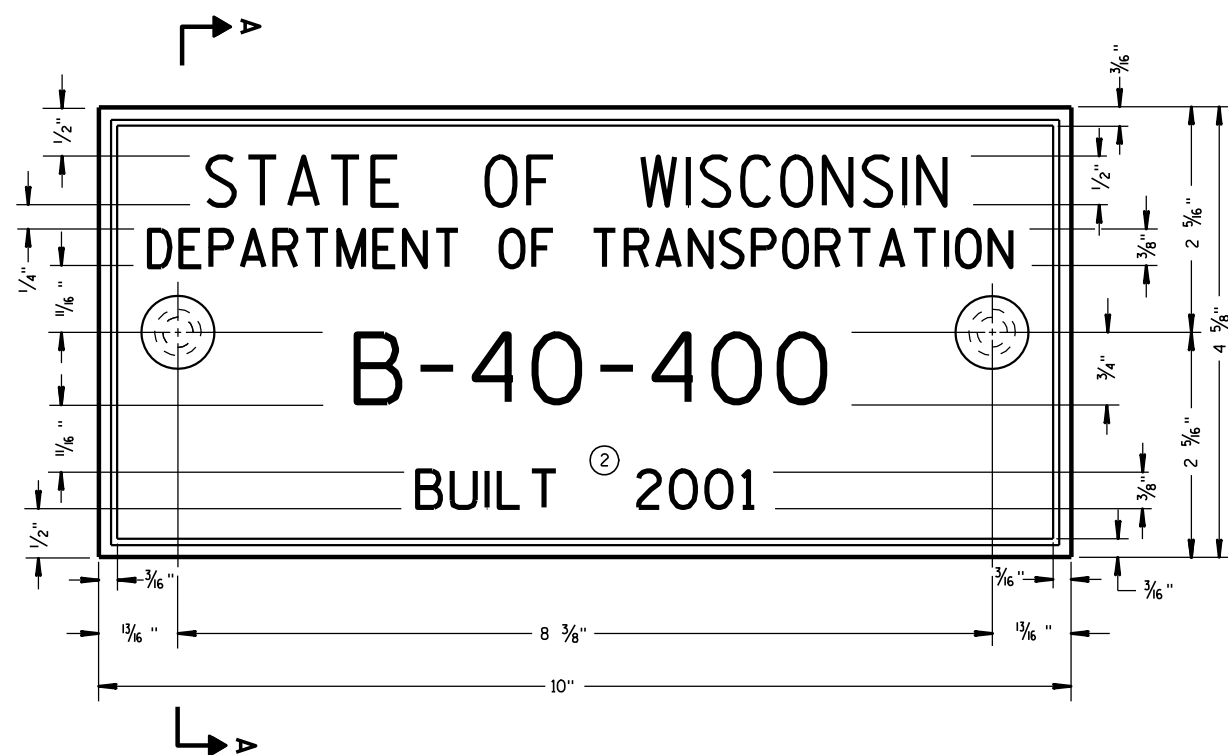


TRENCH DETAIL



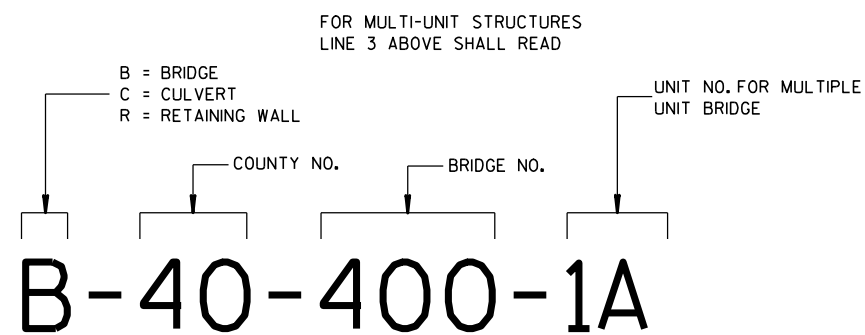
SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4-29-05 DATE	/S/ Beth Canestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	



TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



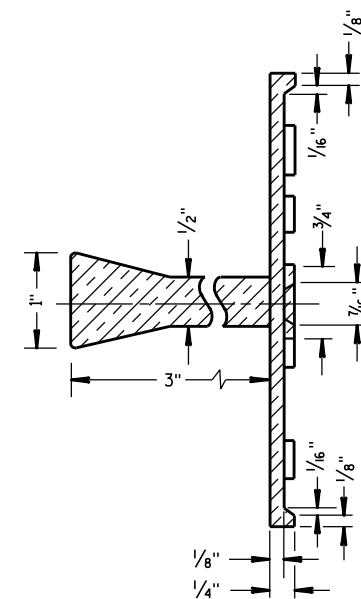
NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

GENERAL NOTES

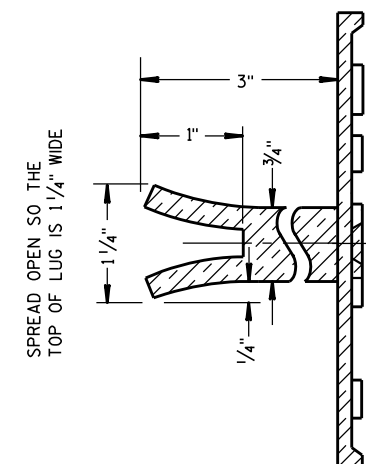
NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

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

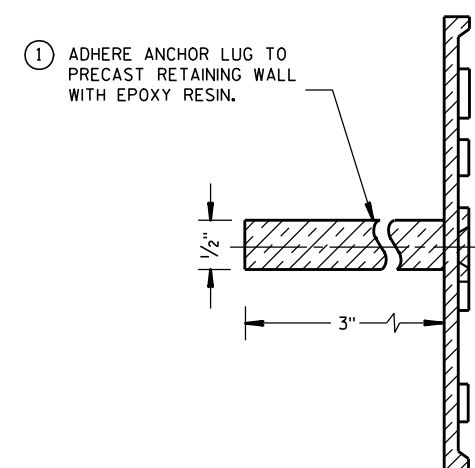
- ① EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ② REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

**NAME PLATE
(STRUCTURES)**

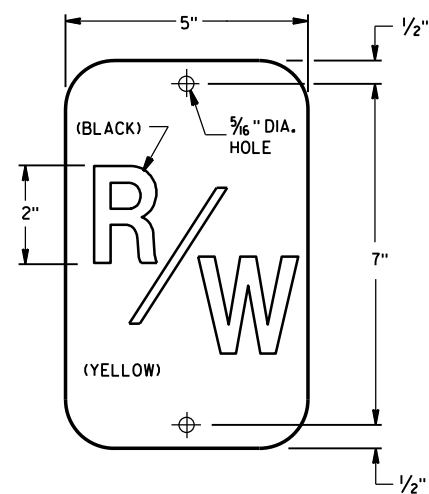
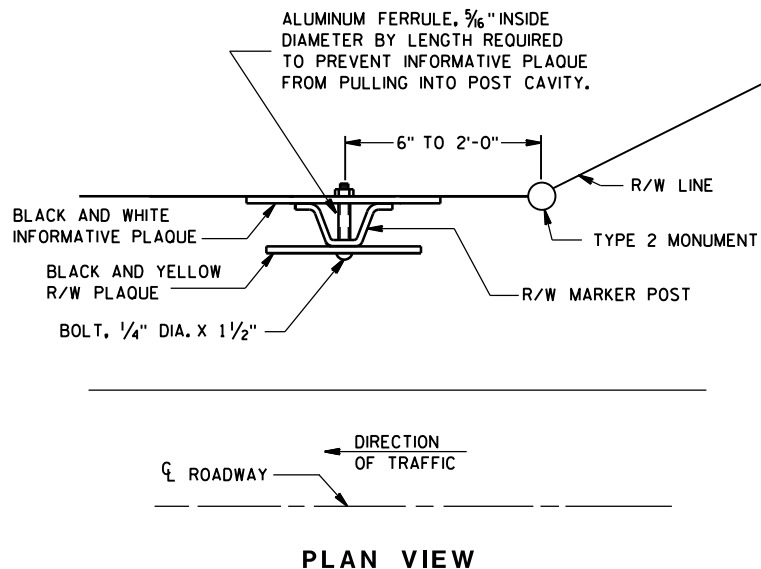
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

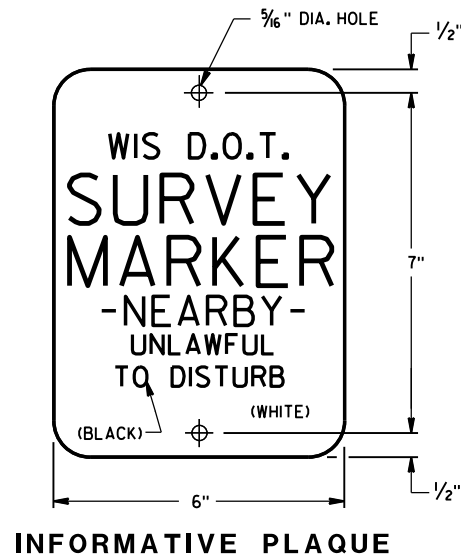
3/26/10
DATE

/S/ Scot Becker
CHIEF STRUCTURAL DEVELOPMENT ENGINEER

FHWA



THE RIGHT-OF-WAY PLAQUE AND INFORMATIVE PLAQUE WILL BE FURNISHED BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION.



GENERAL NOTES

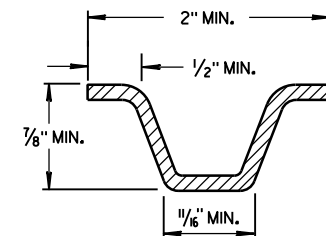
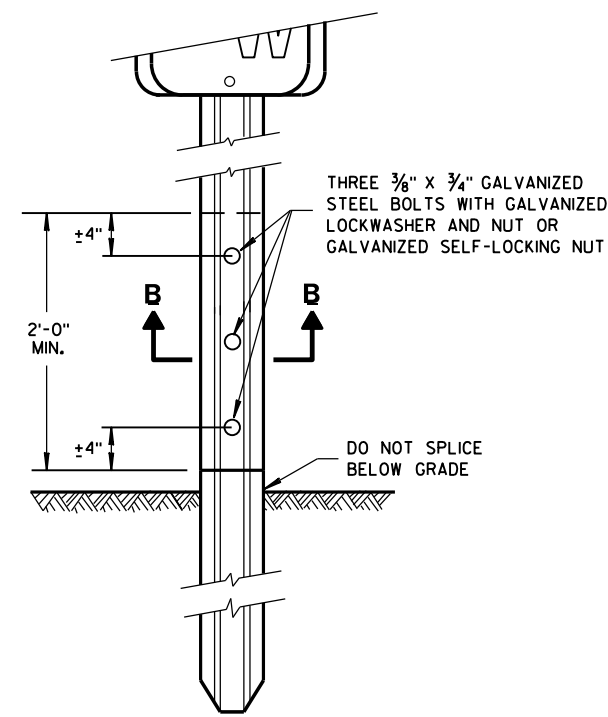
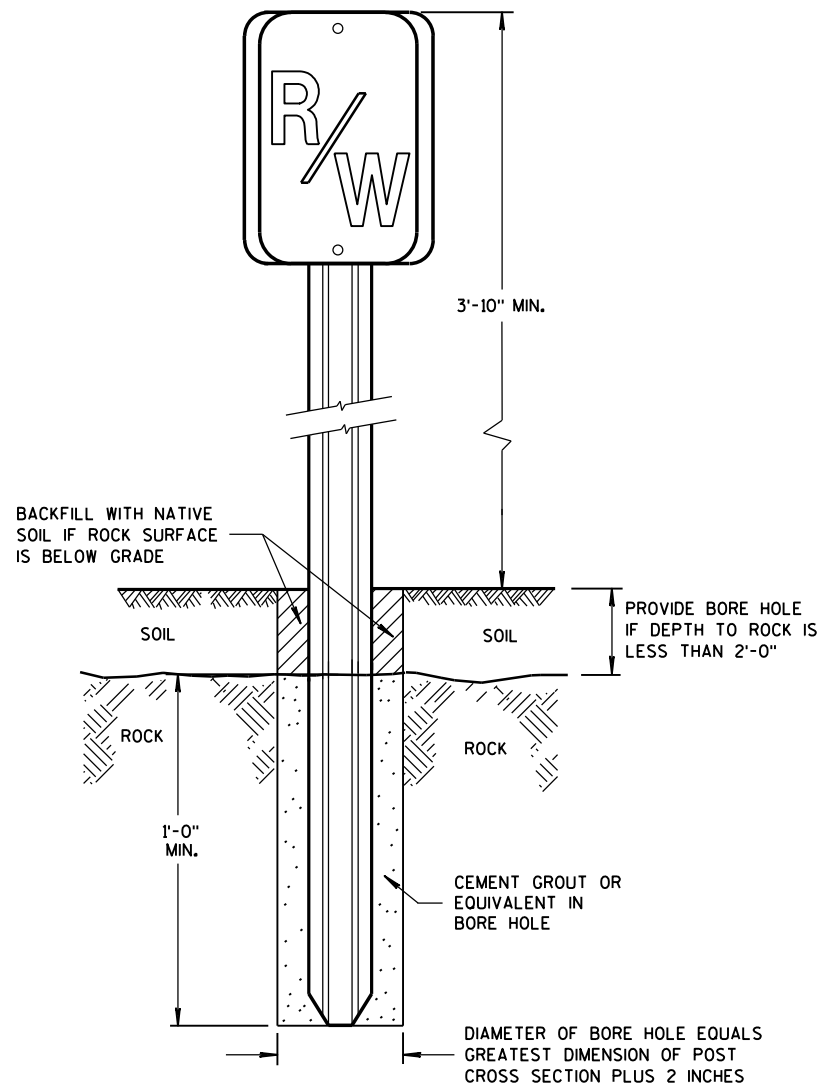
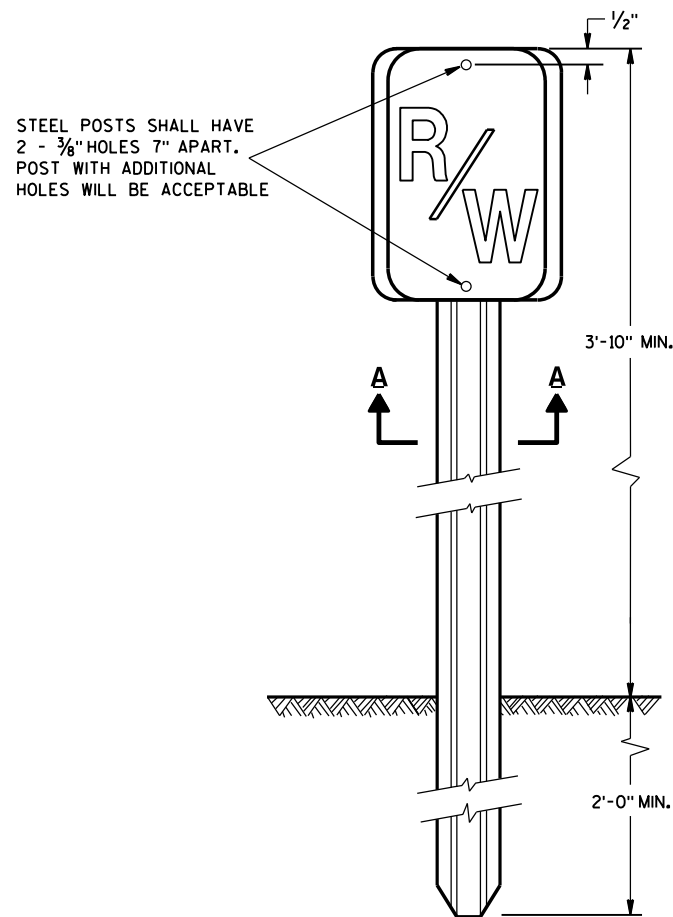
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

A STEEL MARKER POST FOR RIGHT-OF-WAY SHALL BE PLACED IN THE RIGHT-OF-WAY, WITH THE BACK OF THE POST ON THE LONGER RIGHT-OF-WAY TANGENT, 6 INCHES TO 24 INCHES FROM EACH TYPE 2 MONUMENT TO SERVE AS A GUARD POST, AND AT OTHER LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

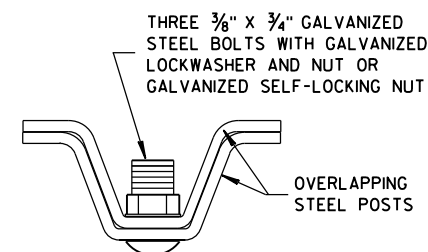
THE "R/W" PLAQUE SHALL FACE THE ROADWAY AND THE INFORMATIVE PLAQUE SHALL FACE AWAY FROM THE ROADWAY. R/W AND INFORMATIVE PLAQUES WILL BE FURNISHED BY THE DEPARTMENT OF TRANSPORTATION.

STEEL MARKER POSTS SHALL MEET THE MINIMUM MATERIAL REQUIREMENTS FOR STEEL DELINEATOR POSTS; EXCEPT POSTS PAINTED WITH FEDERAL YELLOW ENAMEL NEED NOT BE ZINC COATED.

- ① IN AREAS OF SOLID ROCK, DRILL A BORE HOLE 2" GREATER THAN THE WIDEST DIMENSION OF THE POST CROSS SECTION INTO THE ROCK TO A MINIMUM DEPTH OF 12 INCHES. CUT OR SPLICE THE POST SO THAT A MINIMUM LENGTH OF 3' 10" PROTRUDES ABOVE THE GROUND. BLOW OUT THE BORE HOLE IN THE ROCK USING COMPRESSED AIR. FILL THE BORE HOLE WITH CEMENT GROUT, OR EQUIVALENT, DEPENDING ON THE STABILITY OF THE ROCK.



MIN. WEIGHT 1.12 LB./FT.
SECTION A-A



**MARKER POST
FOR RIGHT-OF-WAY**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

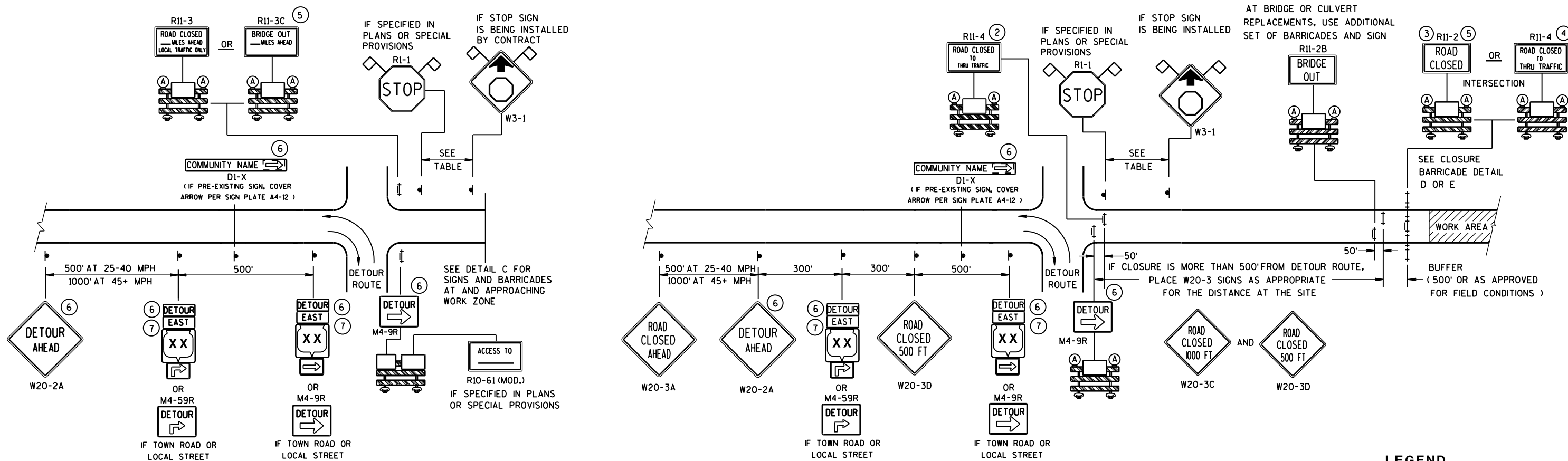
APPROVED

2/18/2016

DATE

FHWA

/S/ Ray Kumapayi
CHIEF SURVEYING AND MAPPING ENGINEER



DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN 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)

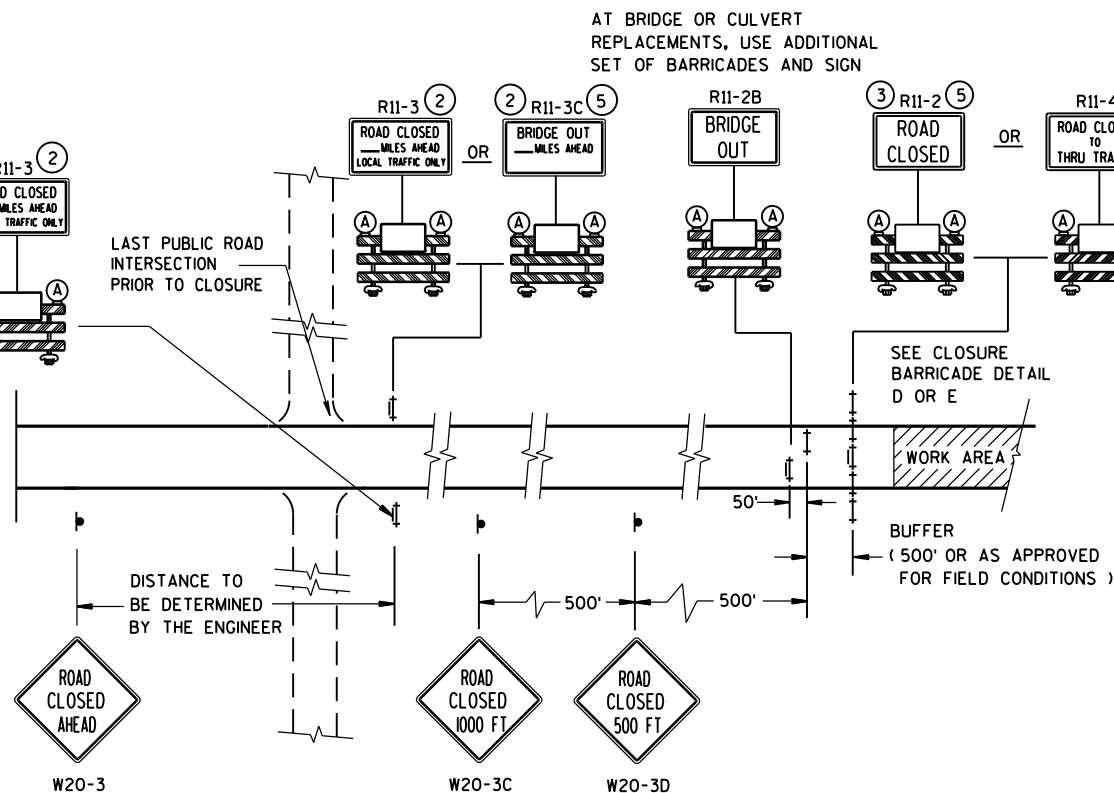
WORK AREA

DETOUR EAST M4-8
M3-X
XX OR COUNTY XX OR XX
M1-4 M1-5A M1-6

M05-1 OR M06-1

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



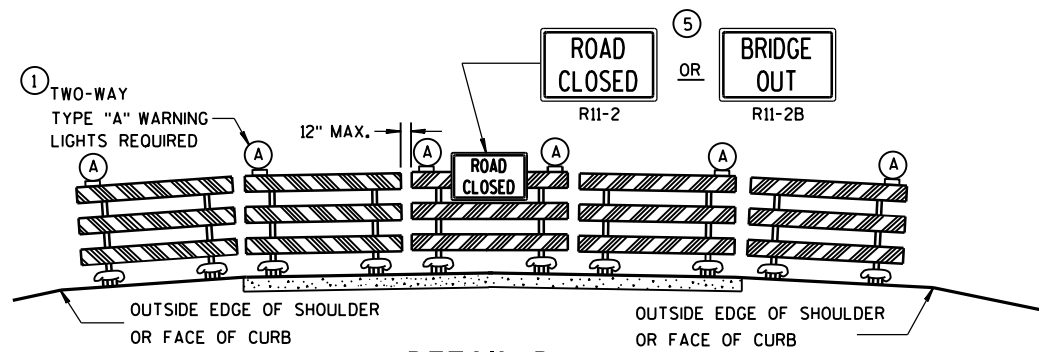
DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

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

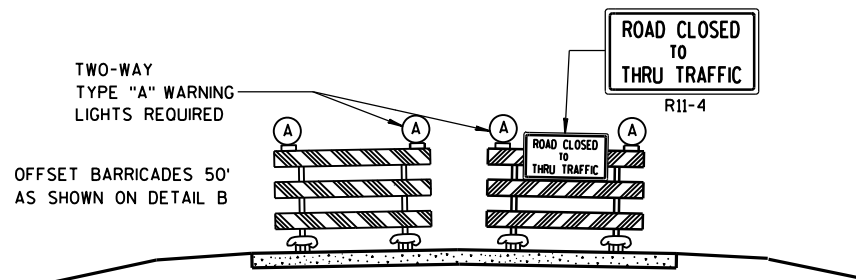
**BARRICADES AND SIGNS
FOR
MAINLINE CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 /S/ Peter Amokobe Atepe
DATE STATEWIDE WORK ZONE TRAFFIC
FHWA SAFETY ENGINEER



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 BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

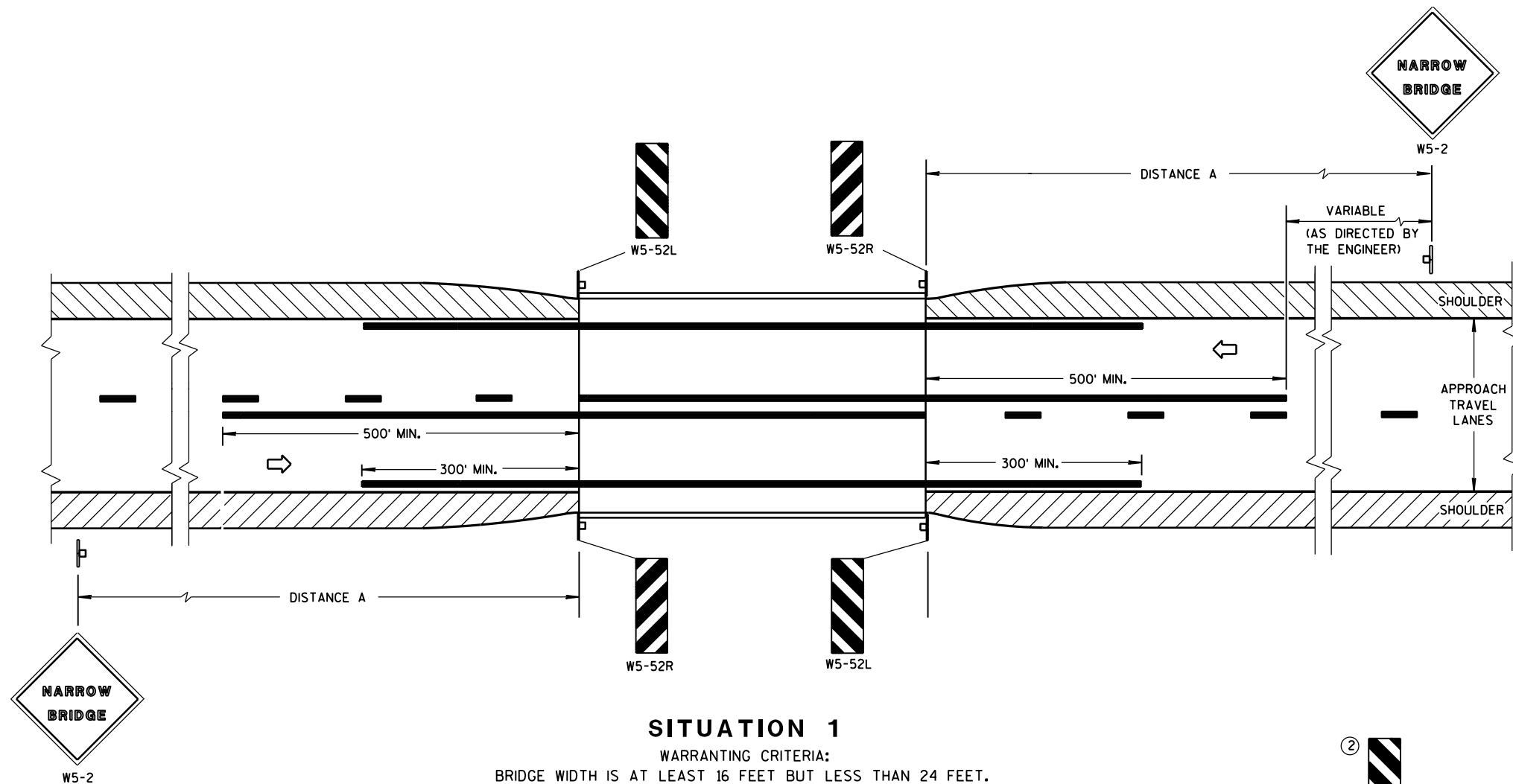
"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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

- R11-2 SHALL BE 48" X 30".
- R11-3, 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". (30" X 15" 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.)
- M05-1 AND M06-1 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 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 LANE 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 MAINLINE CLOSURES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
Sept. 2015 DATE	/S/ Peter Amokobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA	



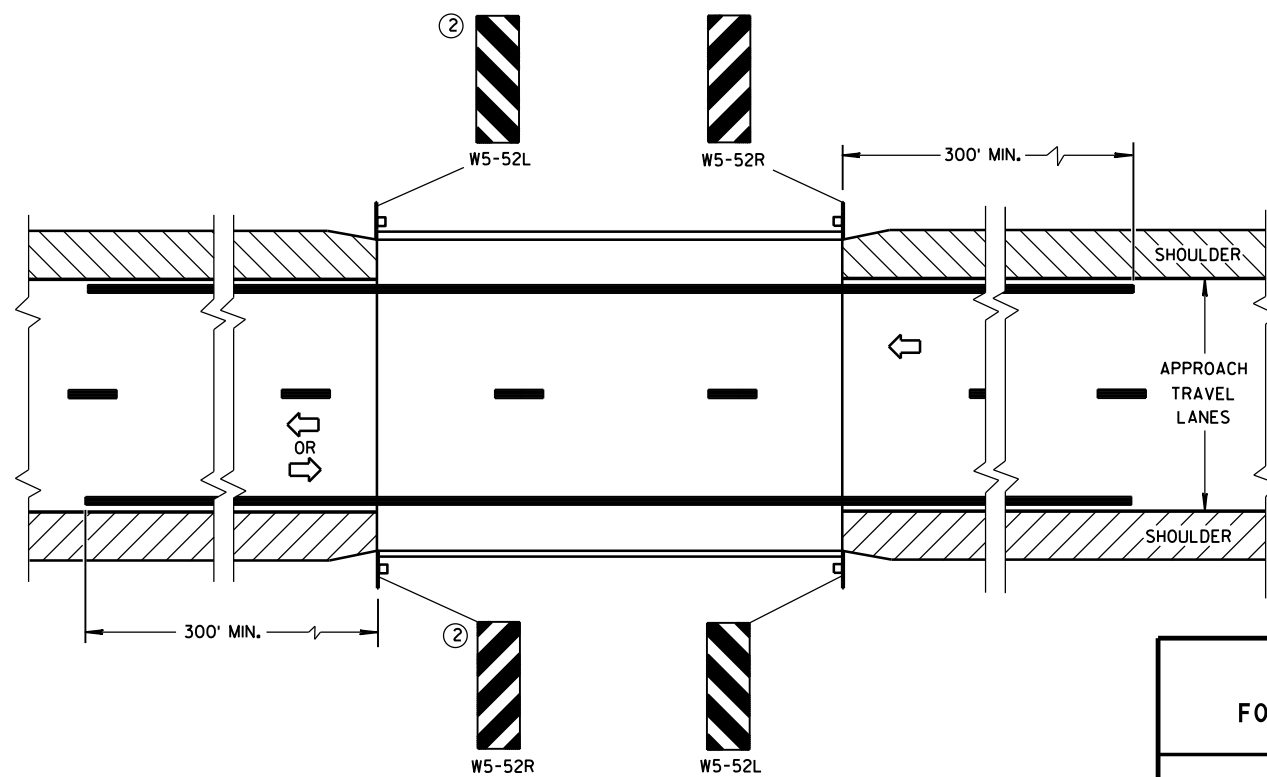
DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	750'

GENERAL NOTES

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

- ① LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.
- ② OMIT ON ONE-WAY TRAVELLED WAYS.
- ③ EDGE OF W5-52 SIGN SHALL BE PLACED IN LINE WITH FACE OF CURB OR PARAPET.

SIGNING & MARKING
FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

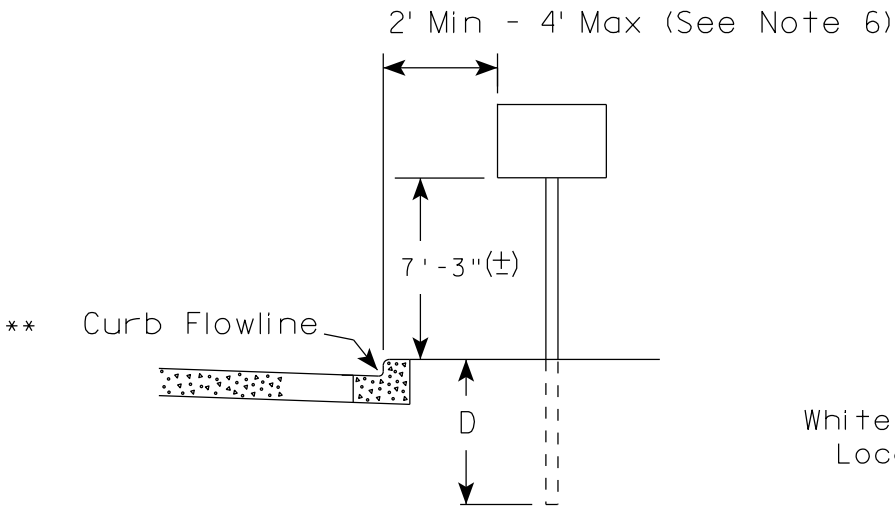
4-18-16

DATE

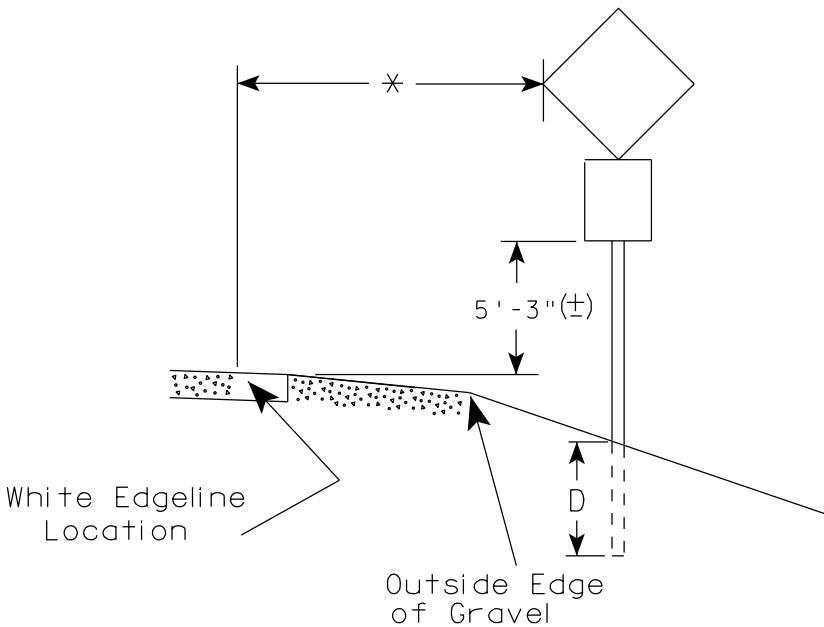
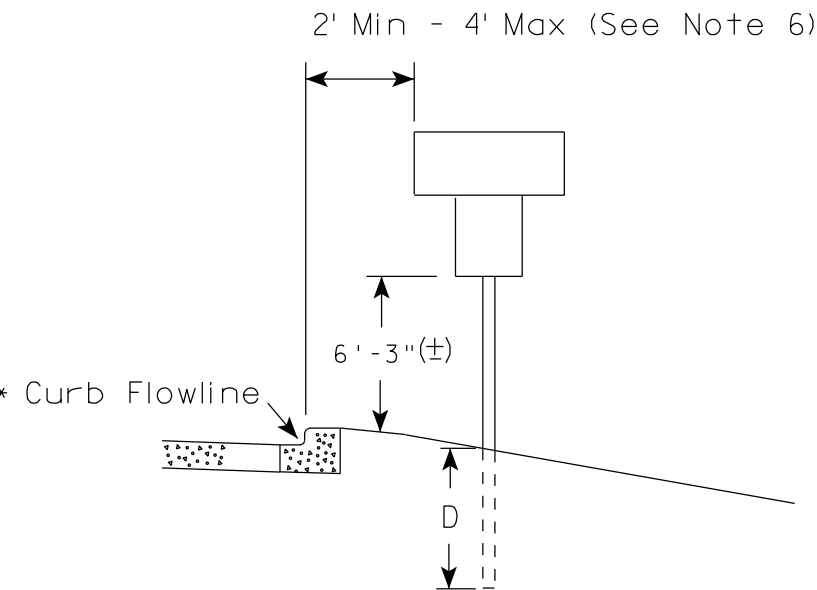
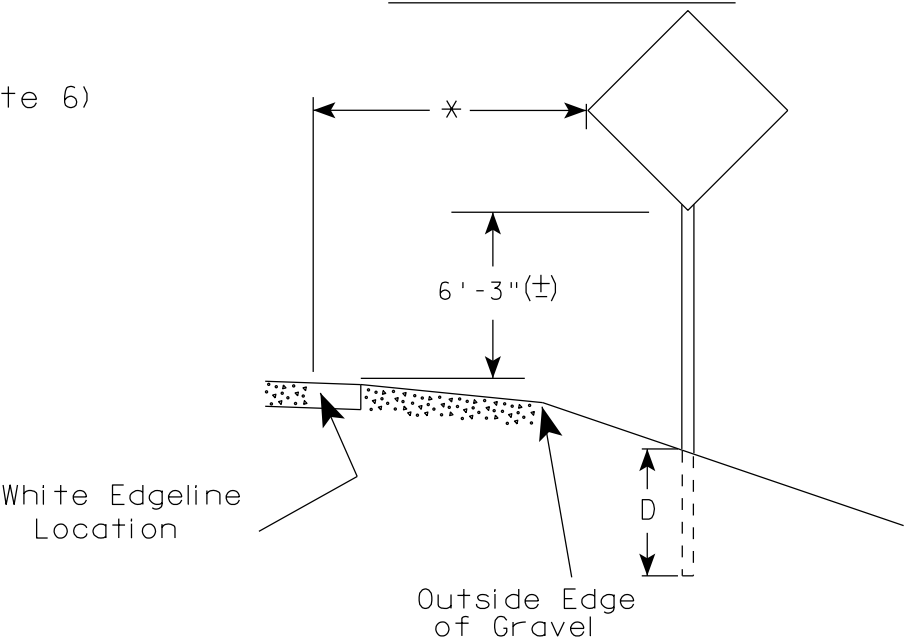
FHWA

/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER

URBAN AREA



RURAL AREA (See Note 2)



GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
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 J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. 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), 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" (±).

POST EMBEDMENT DEPTH

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

×× The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

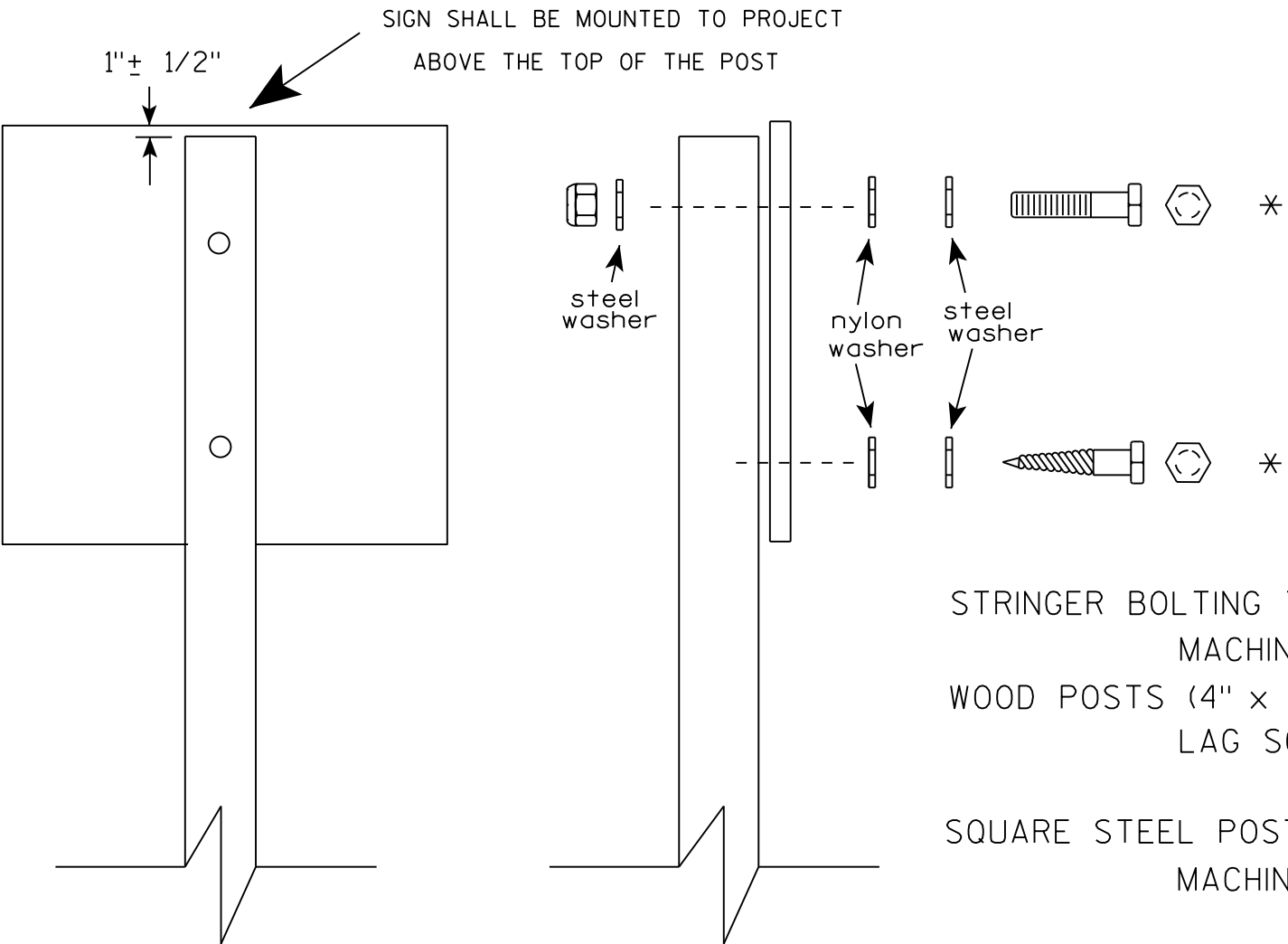
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20



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.

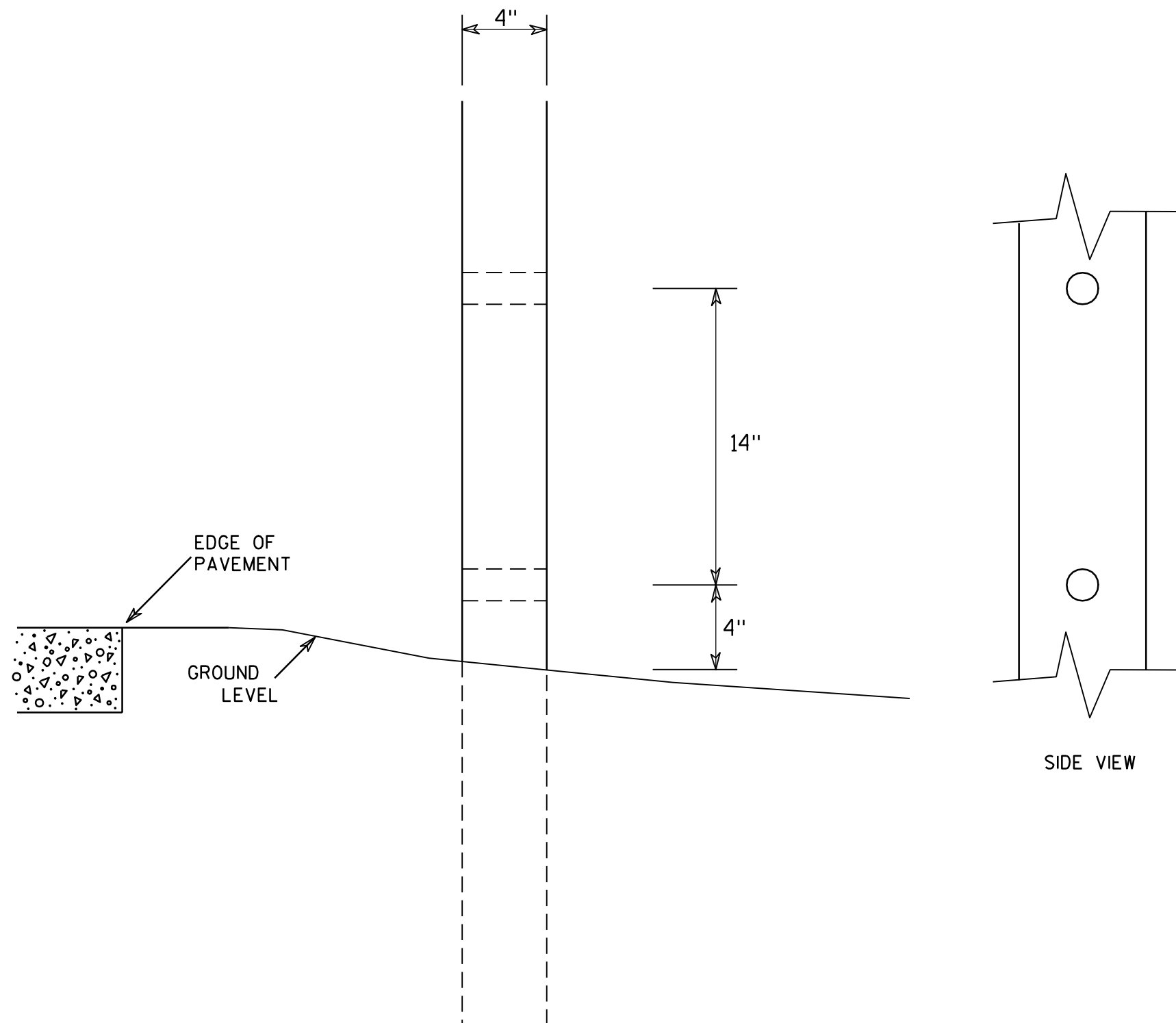
Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

- 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 4" or 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	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 8/11/16	PLATE NO. A4-8.8

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

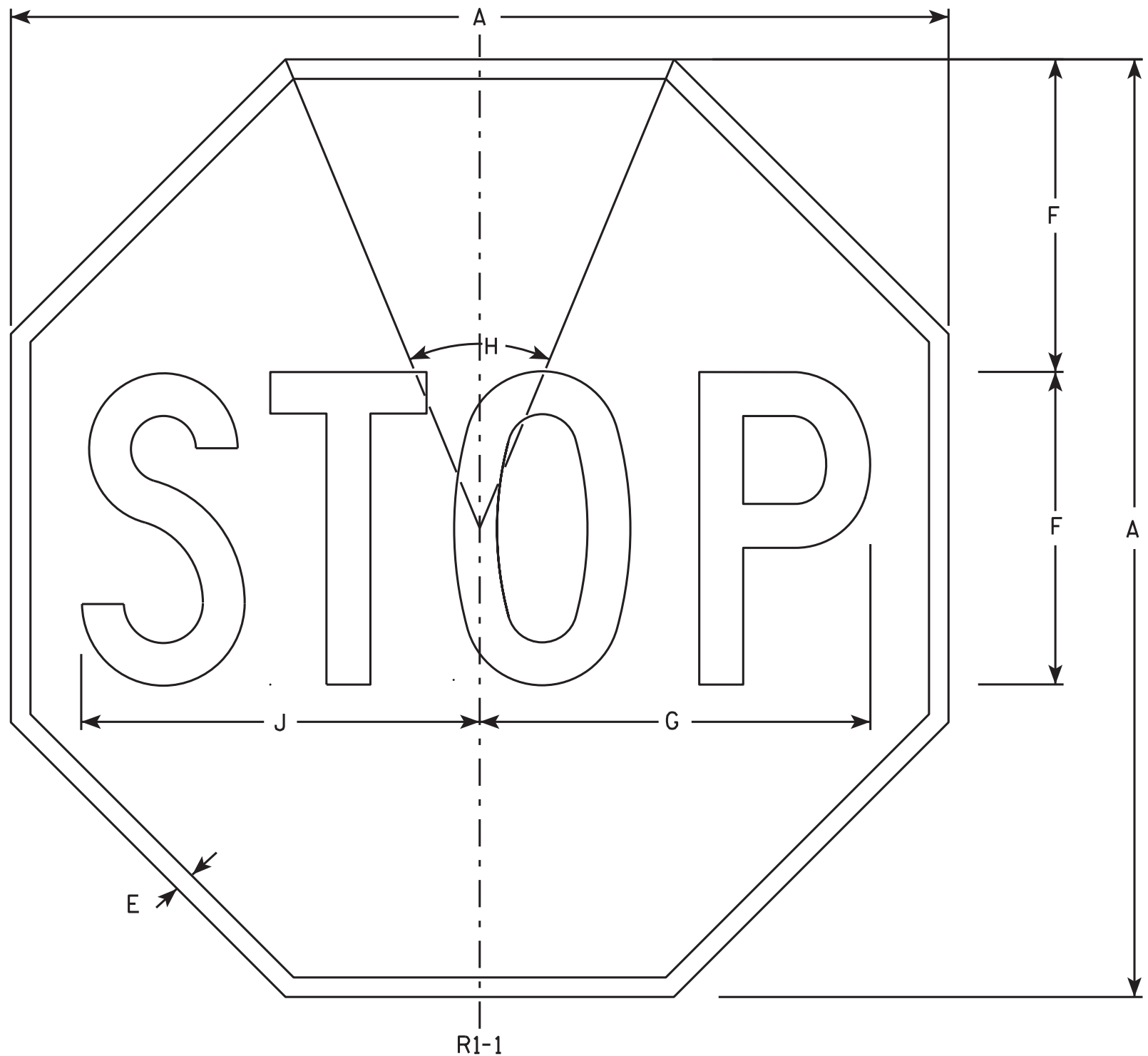
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Red
Message - White
3. Message Series - C

R1-1

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	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.12

PROJECT NO:

HWY:

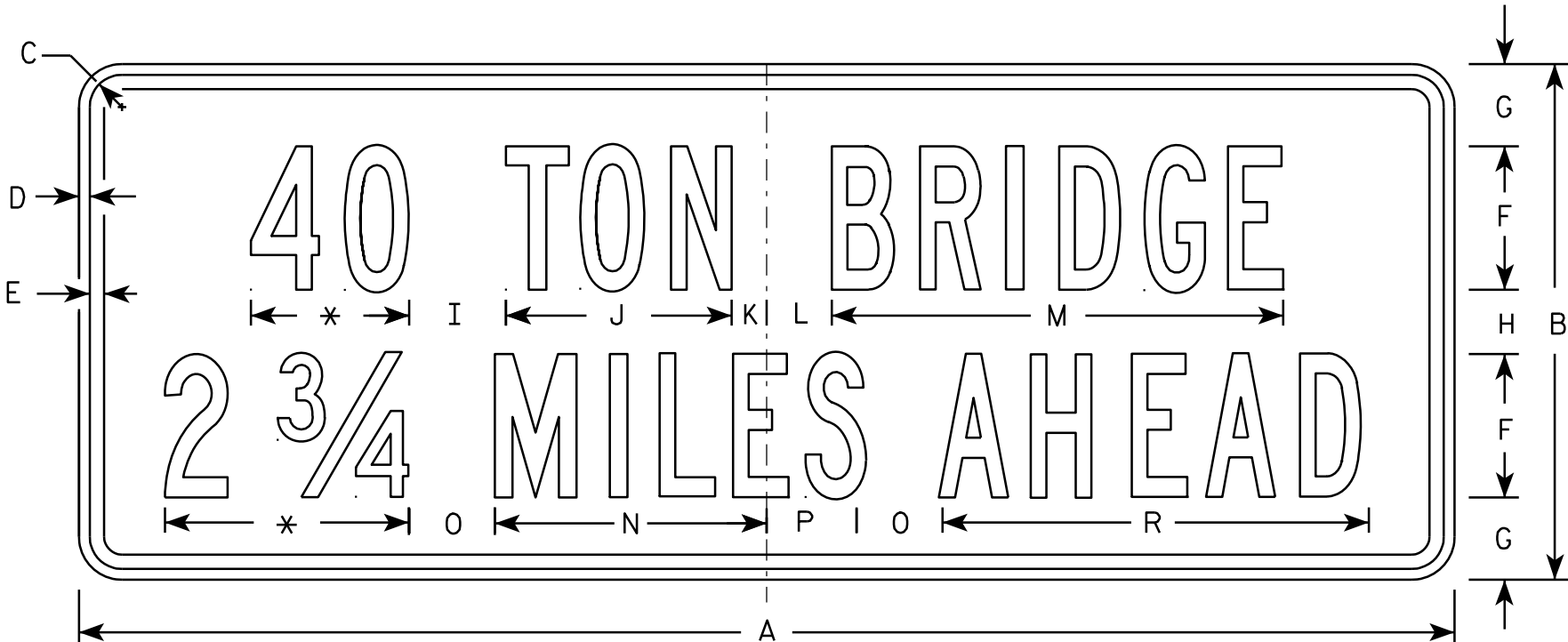
COUNTY:

SHEET NO:

E

NOTES

- 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - White
Message - Black
- 3. Message Series - B for Size 2, Series D for Sizes 3 & 4
- 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 and optically adjust spacing to achieve proper balance.
- 6. For distances less than 5 miles, that figure should be expressed to the nearest 1/4 mile.



R12-55

* Varies

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	48	18	1 1/8	3/8	1/2	5	2 7/8	2 1/4	3 3/8	7 7/8	1 1/4	2 1/4	15 3/4	9 1/2	3	3 1/8		14 7/8									6.0
2M	48	18	1 1/8	3/8	1/2	5	2 7/8	2 1/4	3 3/8	7 7/8	1 1/4	2 1/4	15 3/4	9 1/2	3	3 1/8		14 7/8									6.0
3	90	24	2 1/4	3/4	1	6	4	4	6	15 1/4	2 1/2	3 1/2	30 5/8	18 3/8	6	6 1/4		28 3/8									15.0
4	120	30	2 1/4	3/4	1	8	5 1/4	3 5/8	8	19 5/8	4	3	39 1/2	24 1/2	7	6 3/4		36 3/8									20.0
5	120	30	2 1/4	3/4	1	8	5 1/4	3 5/8	8	19 5/8	4	3	39 1/2	24 1/2	7	6 3/4		36 3/8									20.0

STANDARD SIGN
R12-55

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/23/11 PLATE NO. R12-55.5

PROJECT NO:

HWY:

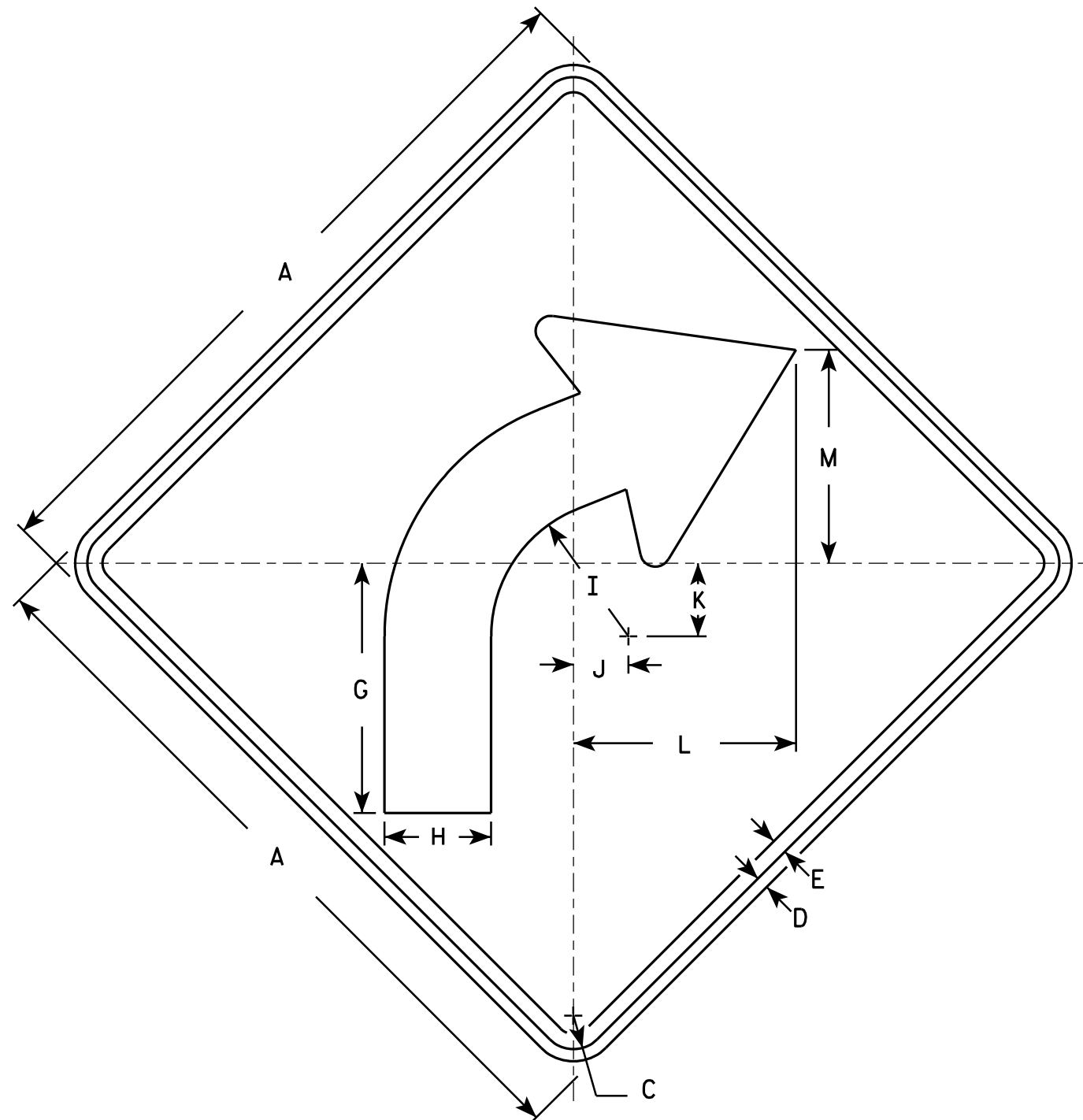
COUNTY:

SHEET NO:

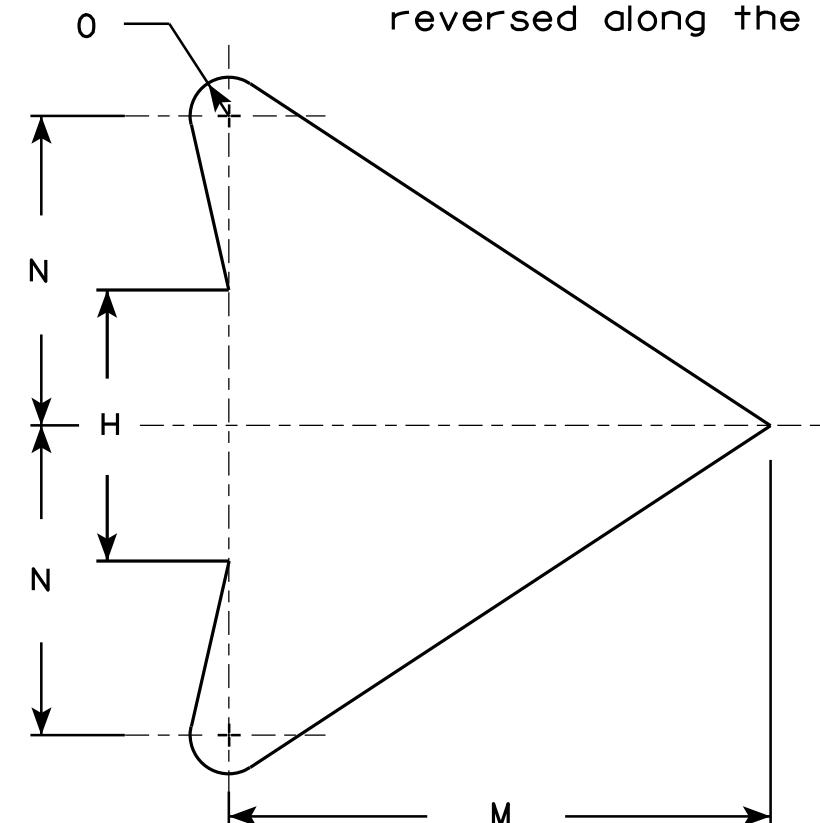
E

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. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



W1-2R



ARROW DETAIL

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	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

STANDARD SIGN

W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

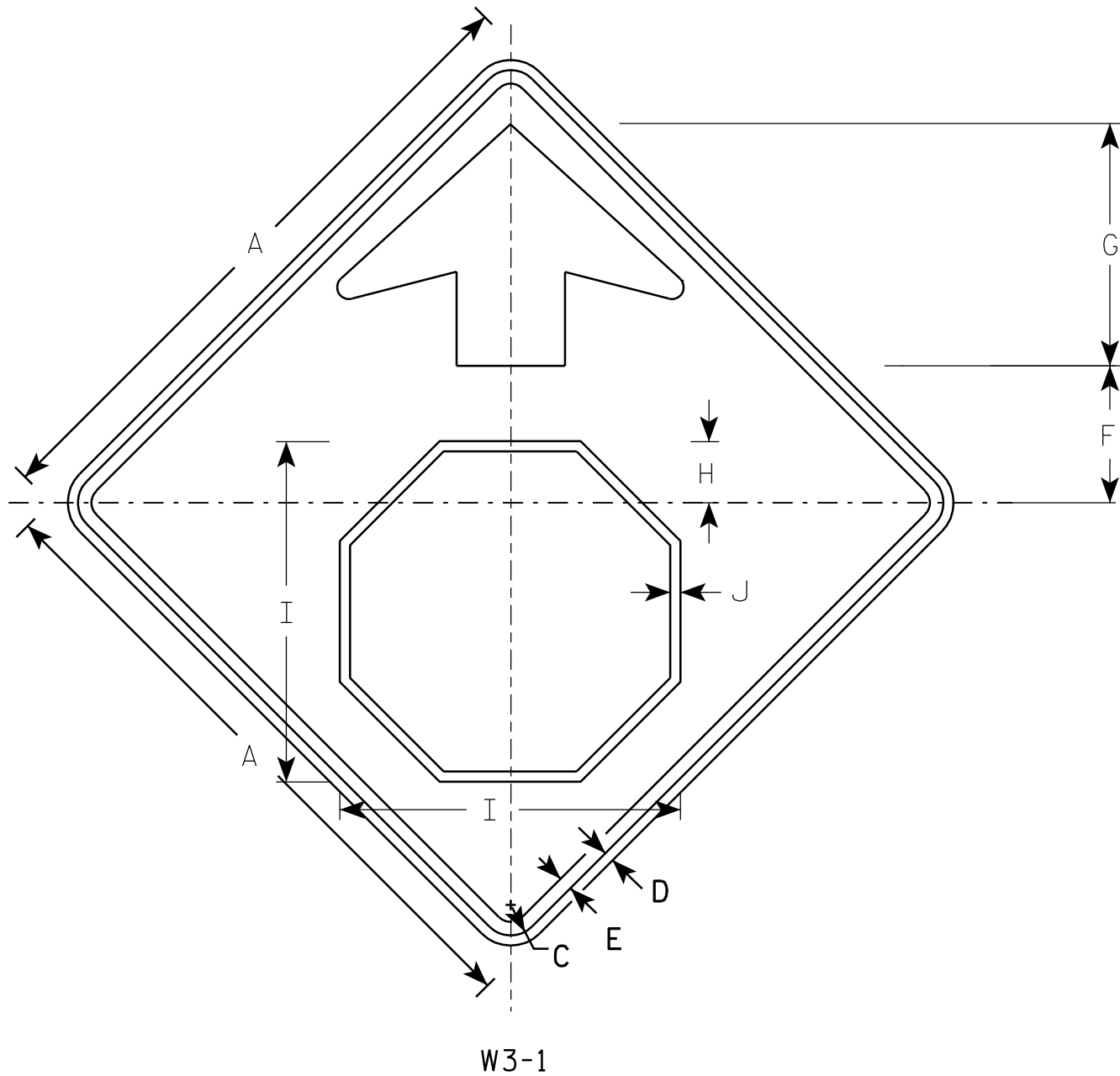
PROJECT NO:

HWY:

COUNTY:

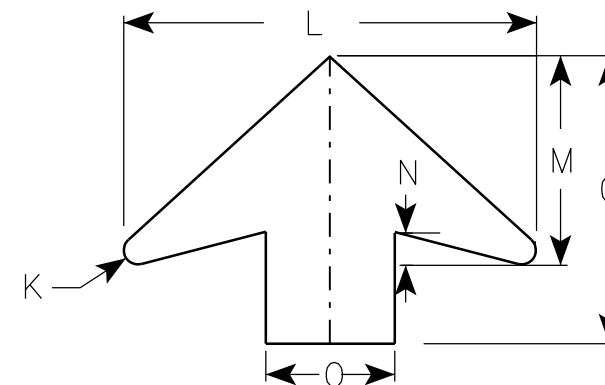
SHEET NO:

E



NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - YELLOW
Arrow & Border - BLACK
Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

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	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

PROJECT NO:

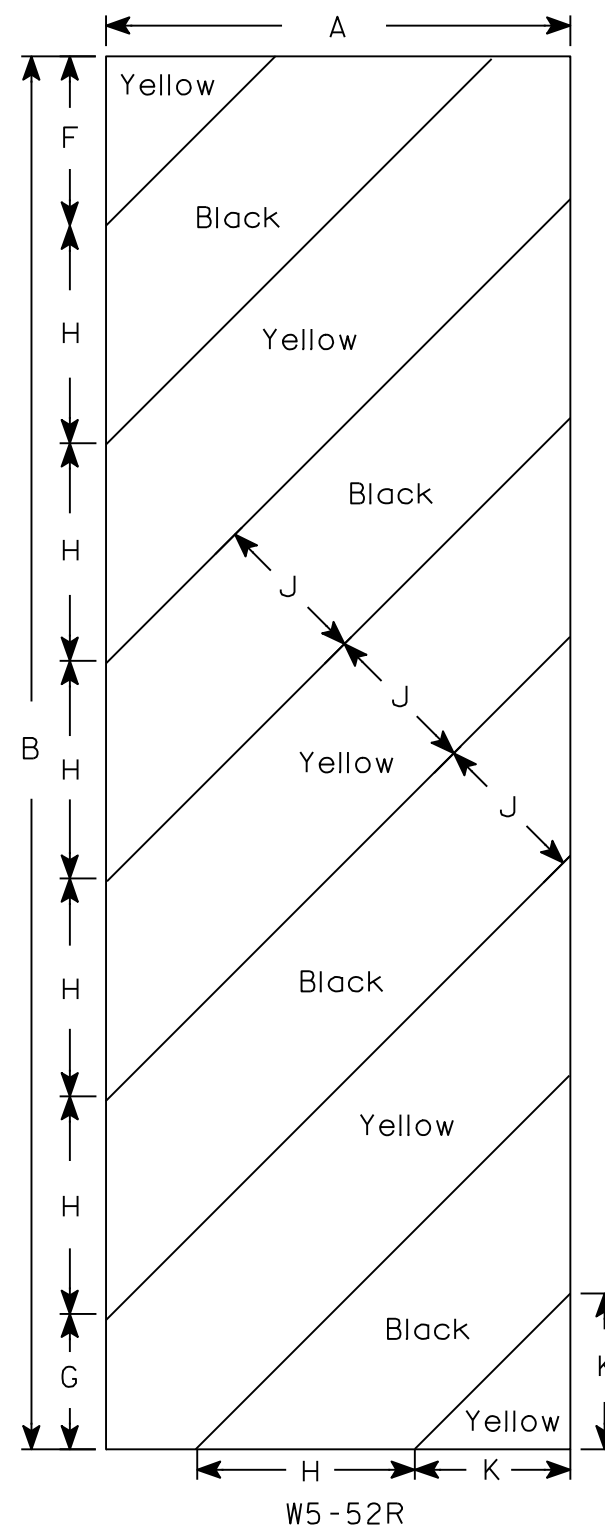
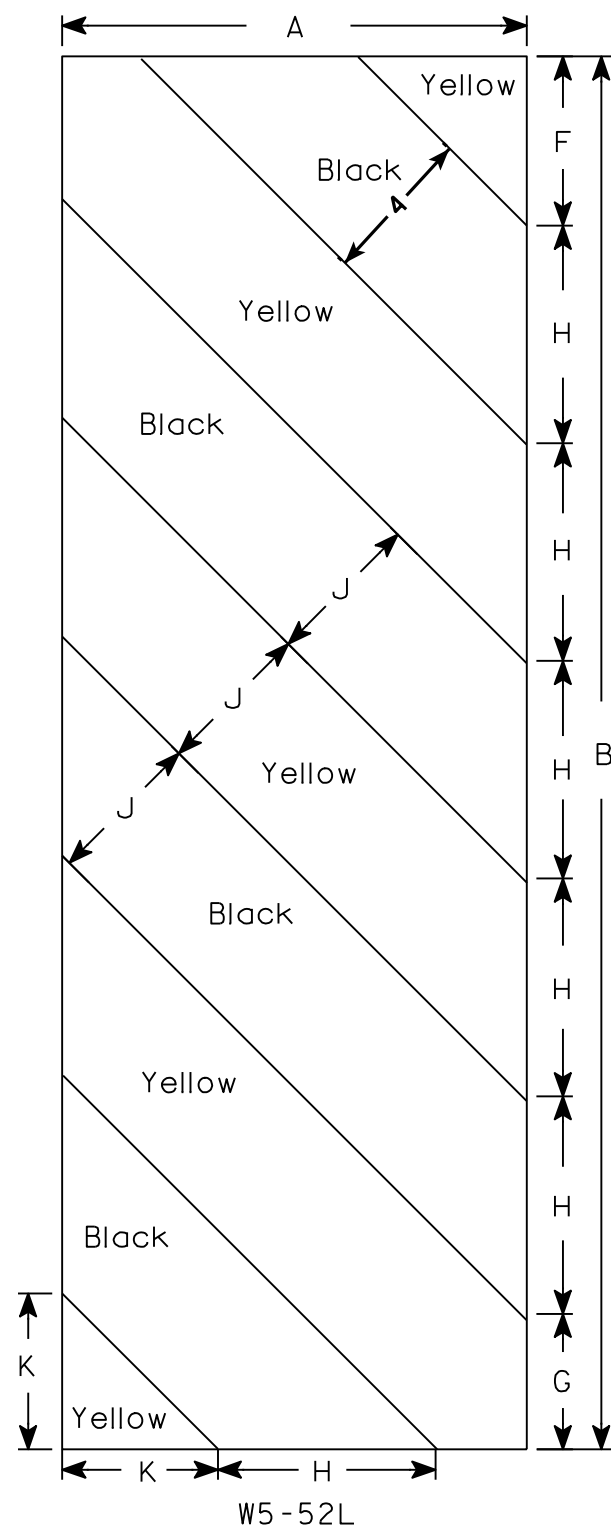
STANDARD SIGN
W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 6/7/10 PLATE NO. W3-1.12

SHEET NO:

E



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.

[illegible]

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

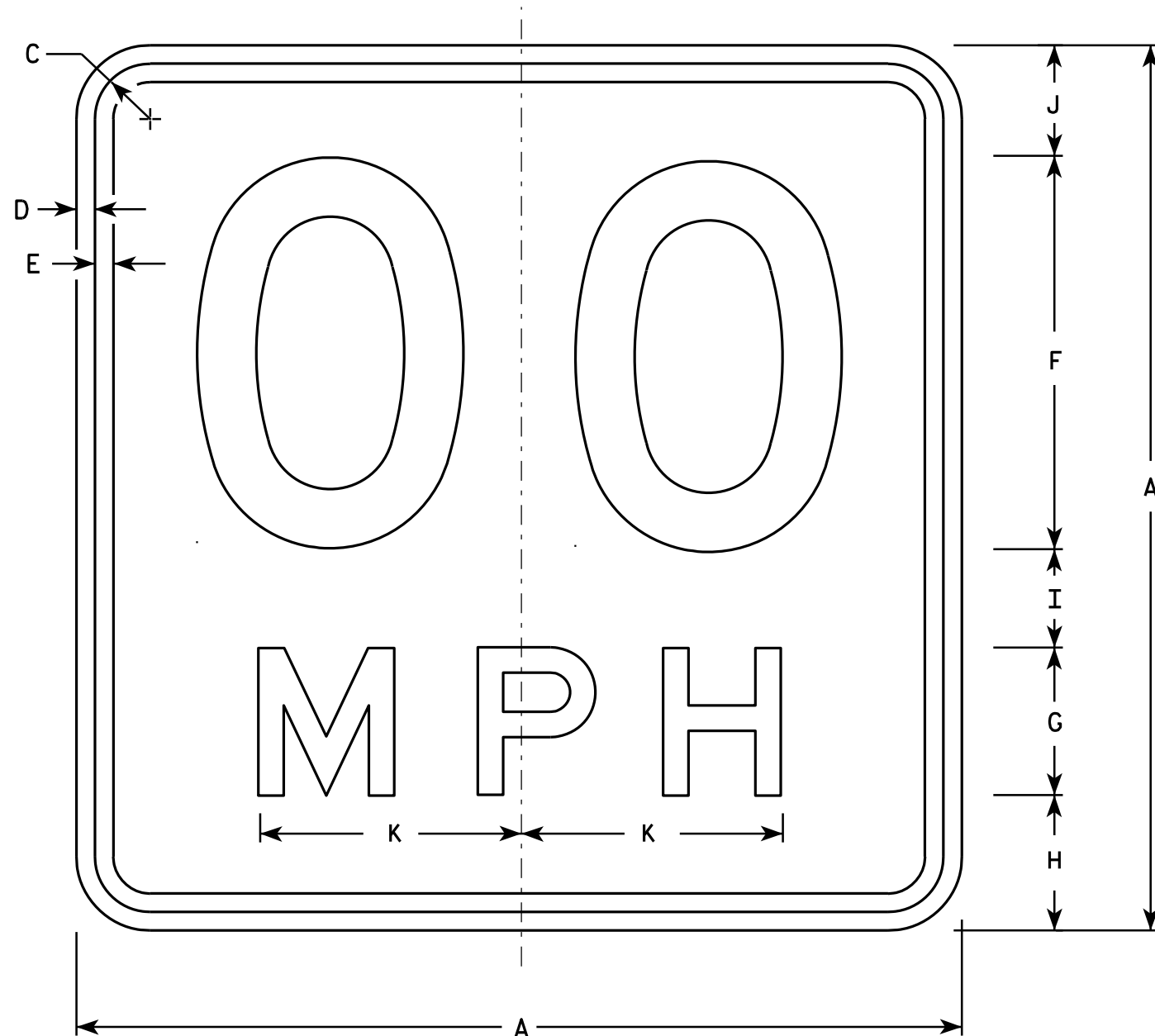
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Message Series - See Note 6
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 and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
Line 2 is Series E

W13-1

- * For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

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	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN

W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

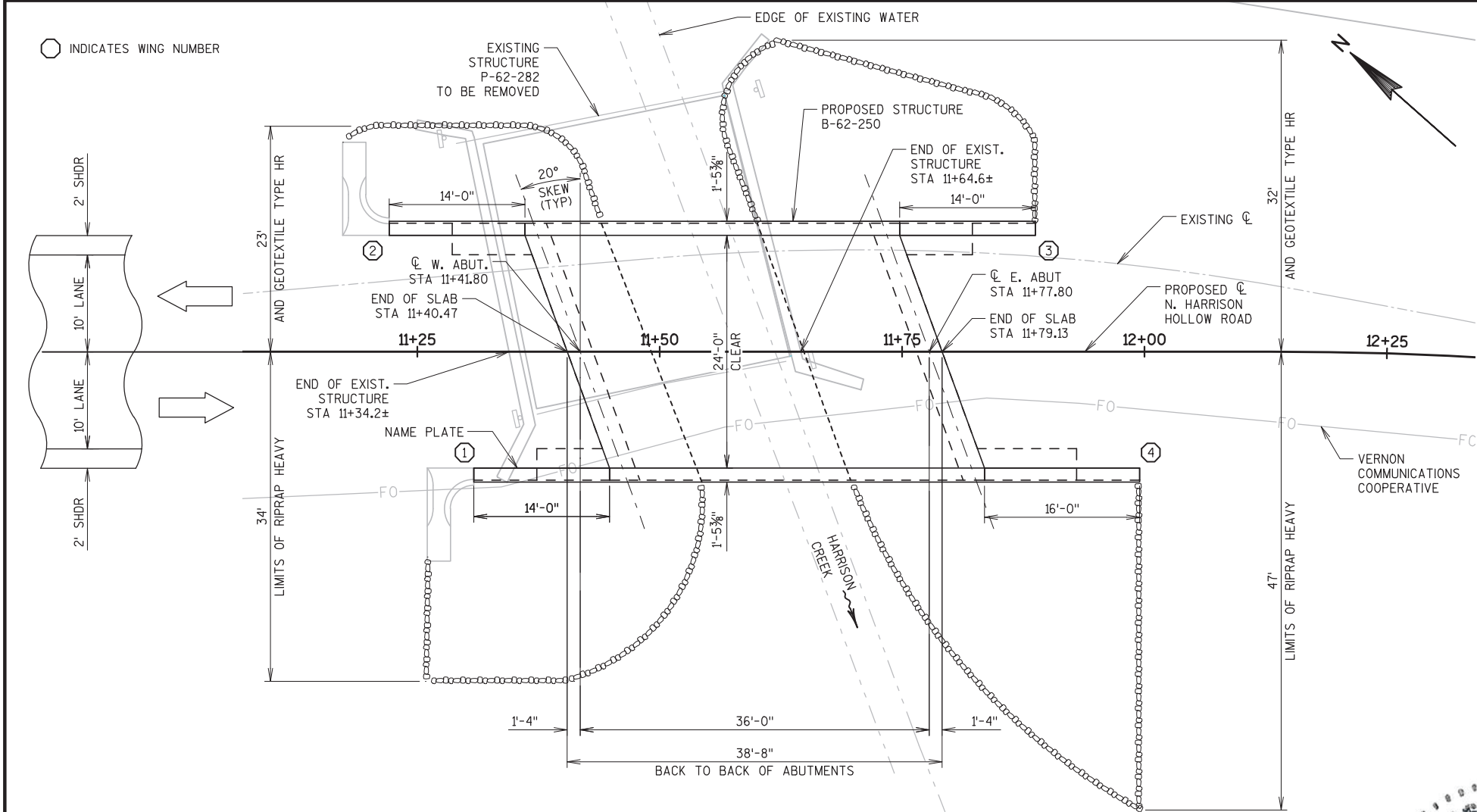
PROJECT NO:

HWY:

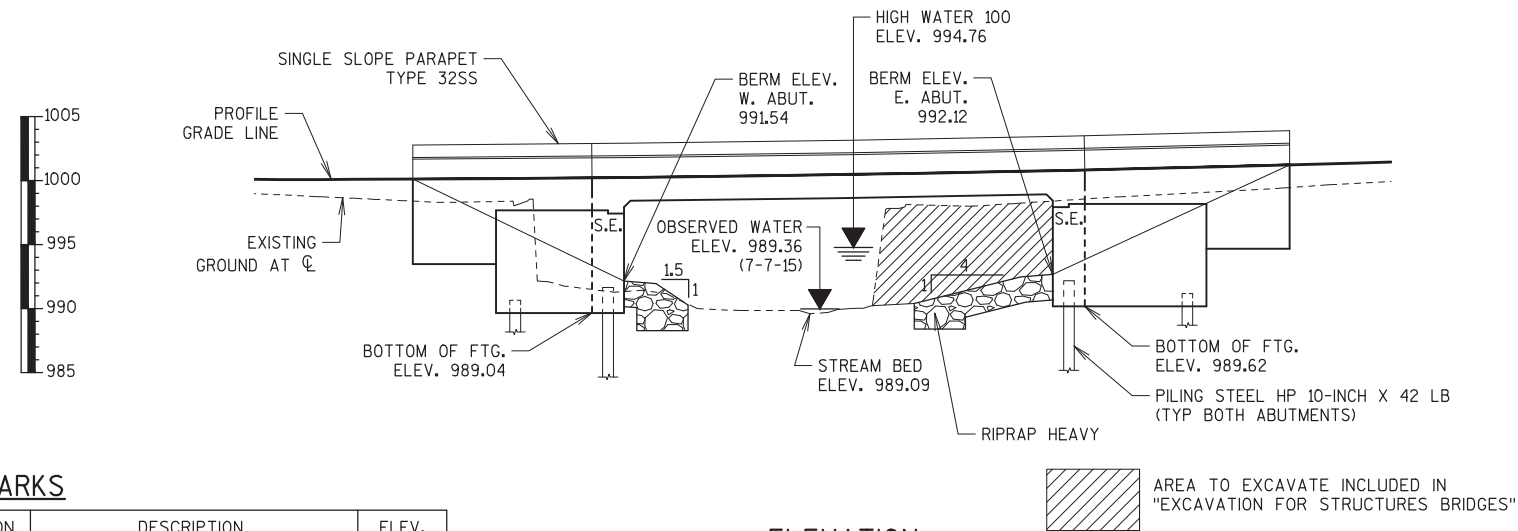
COUNTY:

SHEET NO:

E



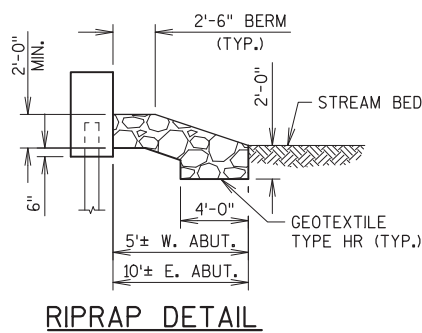
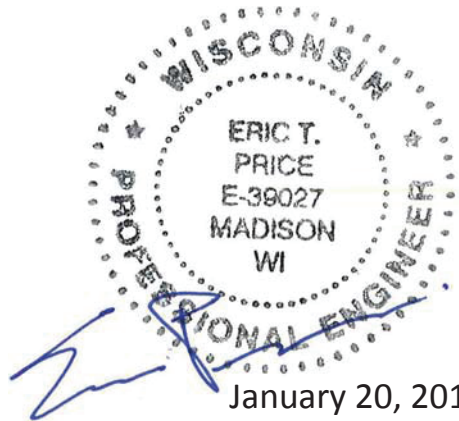
PLAN
(SINGLE SPAN CONCRETE FLAT SLAB BRIDGE)



ELEVATION
(LOOKING NORTH)

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
1	11+70.65	CHISELED TRIANGLE ON SW WING	996.14



DESIGN DATA

DESIGN LOADING _____ HL-93
INVENTORY RATING FACTOR _____ 1.32
OPERATIONAL RATING FACTOR _____ 1.71
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) _____ 250 KIPS
STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 PSF.

MATERIAL PROPERTIES

CONCRETE MASONRY, SLAB _____ f'c = 4,000 psi
ALL OTHER _____ f'c = 3,500 psi
HIGH STRENGTH BAR STEEL REINFORCEMENT _____ fy = 60,000 psi

TRAFFIC DATA

ADT (2017) = <100
ADT (2037) = <100
DESIGN SPEED = <25 MPH

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON PILING STEEL HP 10-INCH X 42 LB AND DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS* PER PILE AS REQUIRED BY THE MODIFIED GATES DYNAMIC EQUATION. ESTIMATED 20' LONG AT THE WEST ABUTMENT AND 15' LONG AT THE EAST ABUTMENT.

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

HYDRAULIC DATA

100 YEAR FREQUENCY

Q₁₀₀ = 460 C.F.S.
VEL. = 7.5 F.P.S.
HW₁₀₀ = EL. 994.76
WATERWAY AREA = 237 SQ. FT.
DRAINAGE AREA = 0.45 SQ. MI.
ROADWAY OVERTOPPING = N/A
SCOUR CRITICAL CODE = 8

2 YEAR FREQUENCY

Q₂ = 80 C.F.S.
VEL. = 4.4 F.P.S.
HW₂ = EL. 992.14

LIST OF DRAWINGS

- GENERAL PLAN
- CROSS SECTION & QUANTITIES
- SUBSURFACE EXPLORATION
- WEST ABUTMENT
- WEST ABUTMENT DETAILS
- EAST ABUTMENT
- EAST ABUTMENT DETAILS
- SUPERSTRUCTURE
- SUPERSTRUCTURE DETAILS
- SINGLE SLOPE PARAPET 32SS

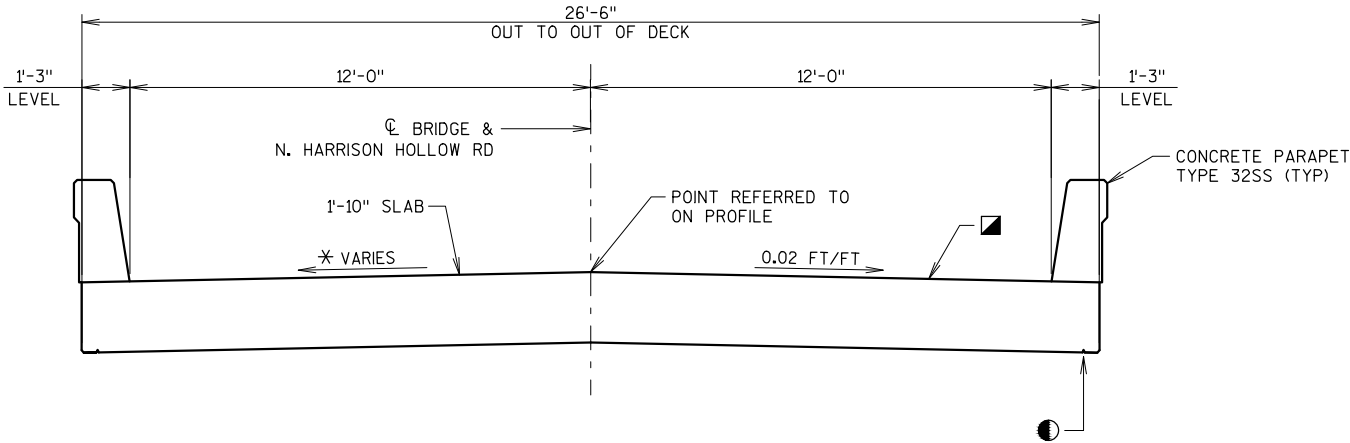
NO.	DATE	REVISION	BY
CORRE			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED	William C. Dreher CHIEF STRUCTURES DESIGN ENGINEER		02/27/17 DATE
STRUCTURE B-62-250			
N HARRISON HOLLOW RD OVER HARRISON CREEK			
COUNTY	VERNON	TOWN/CITY/VILLAGE	VIROQUA
DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS			
DESIGNED BY	ERA	DESIGN CK'D.	ETP
DRAWN BY	PKF	PLANS CK'D.	ETP
GENERAL PLAN			SHEET 1 OF 10

BRIDGE OFFICE CONTACT
BILL DREHER, P.E.
TELEPHONE: (608) 266-8489

CONSULTANT CONTACT
ERIC PRICE, P.E.
TELEPHONE: (608) 826-6146

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 AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON THE GENERAL PLAN SHEET AND IN THE ABUTMENT DETAILS.
- SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.
- THE EXISTING GROUND LINE SHALL BE THE UPPER LIMIT FOR EXCAVATION FOR STRUCTURES.
- PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE ENTIRE INSIDE FACE AND TOP SURFACE OF THE PARAPETS ON THE WINGS AND SUPERSTRUCTURE.
- THE EXISTING STRUCTURE P-62-282, TO BE REMOVED, IS A SINGLE SPAN STEEL DECK GIRDER BRIDGE, 30.3 FT. LONG WITH A 27.4 FT. CLEAR ROADWAY WIDTH.
- 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 BACKFILL STRUCTURE.



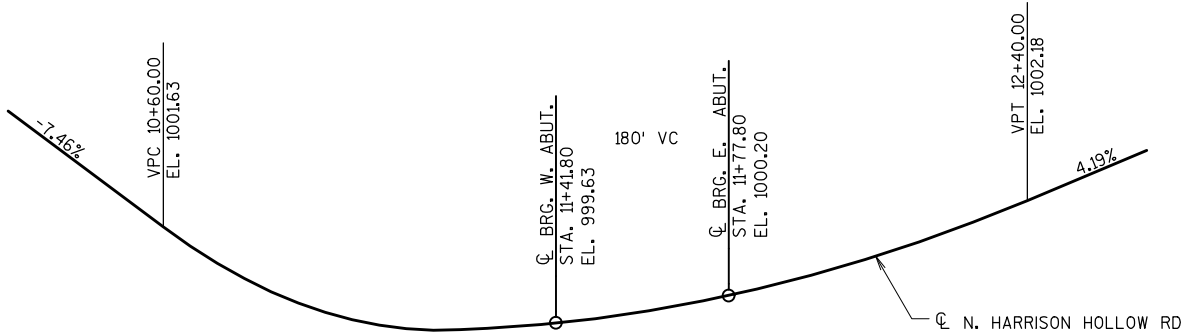
CROSS SECTION THRU BRIDGE
(LOOKING EAST)

LEGEND

- 3/4" V-GROOVE. TERMINATE 6" FROM FRONT FACE OF ABUTMENTS.
- COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD SPECIFICATIONS.

*

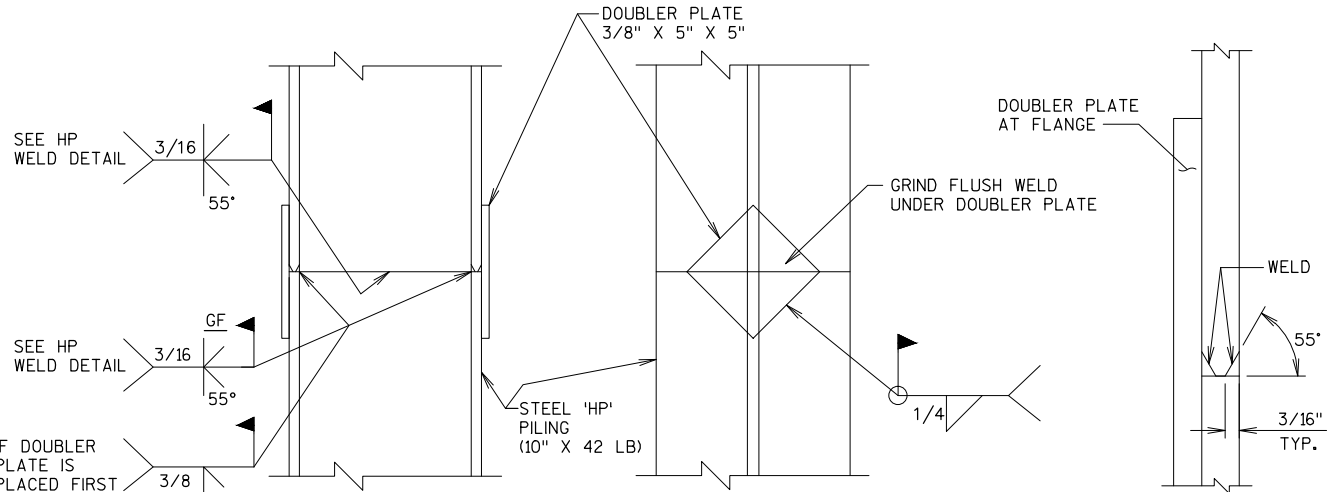
STA.	CROSS SLOPE
11+43.18	-0.02%
11+79.40	0
12+15.61	+0.02%



PROFILE GRADE LINE
(NORTH HARRISON HOLLOW ROAD)

TOTAL ESTIMATED QUANTITIES

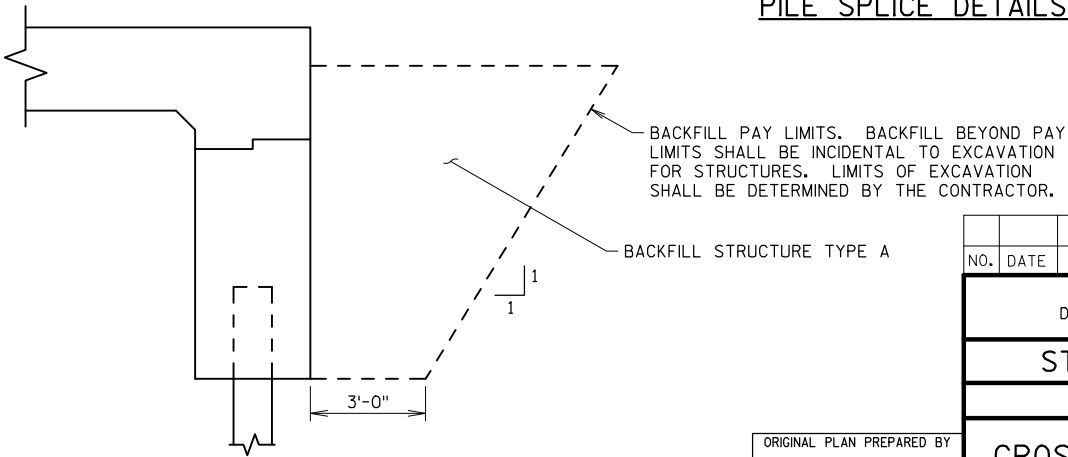
BID NUMBER	BID ITEM	UNIT	WEST ABUT.	EAST ABUT.	SUPER	TOTALS
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 11+60	LS	-----	-----	-----	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-62-250	LS	-----	-----	-----	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	240	250	-----	490
502.0100	CONCRETE MASONRY BRIDGES	CY	44	48	74	166
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-----	-----	107	107
502.3210	PIGMENTED SURFACE SEALER	SY	12	13	32	57
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2,040	2,060	-----	4,100
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	2,460	2,690	15,250	20,400
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	9	9	-----	18
550.1100	PIILING STEEL HP 10-INCH X 42 LB	LF	120	90	-----	210
606.0300	RIPRAP HEAVY	CY	100	160	-----	260
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	55	60	-----	115
645.0120	GEOTEXTILE TYPE HR	SY	130	195	-----	325
	NON-BID ITEMS					
	FILLER	SIZE	-----	-----	-----	1/2" & 3/4"



STEEL 'HP' PILING

HP WELD DETAIL
FLANGE SHOWN, WEB SIMILAR

PILE SPLICE DETAILS

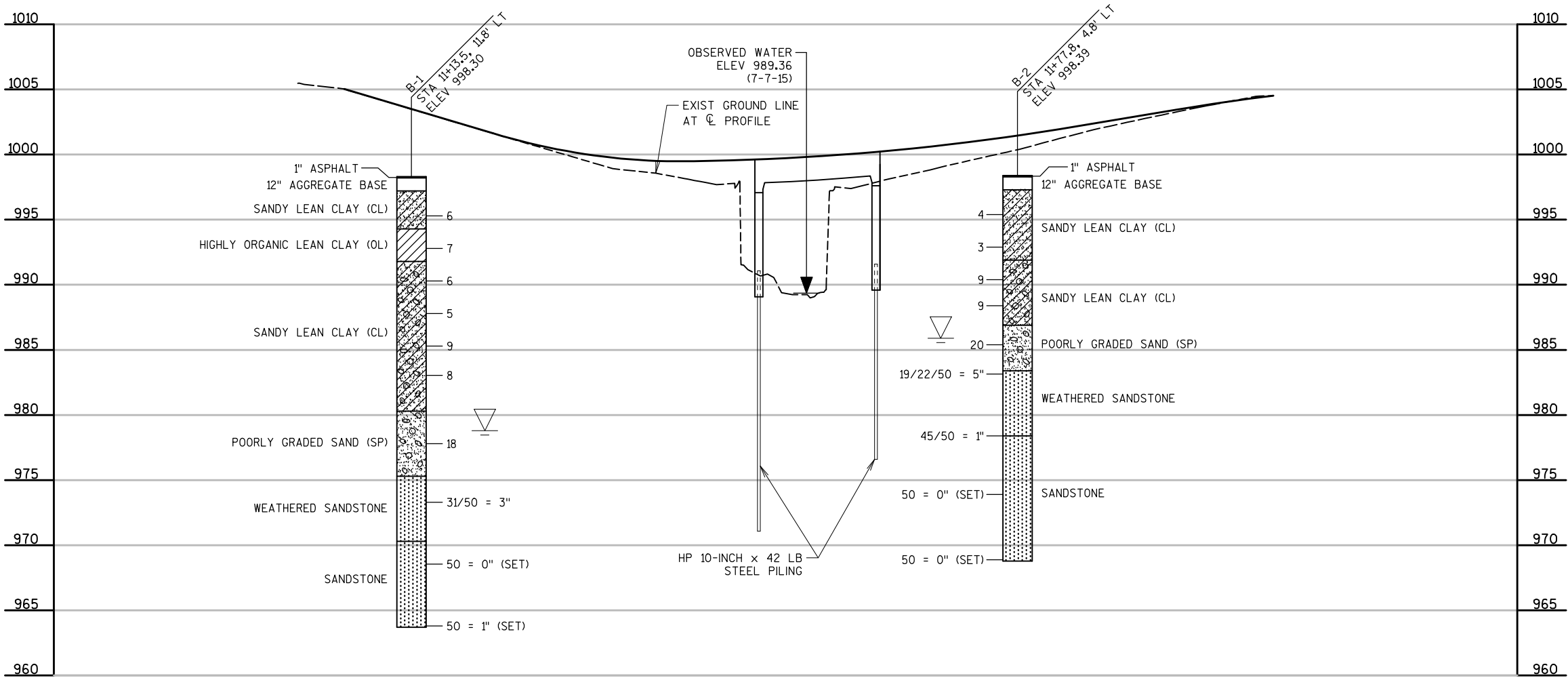
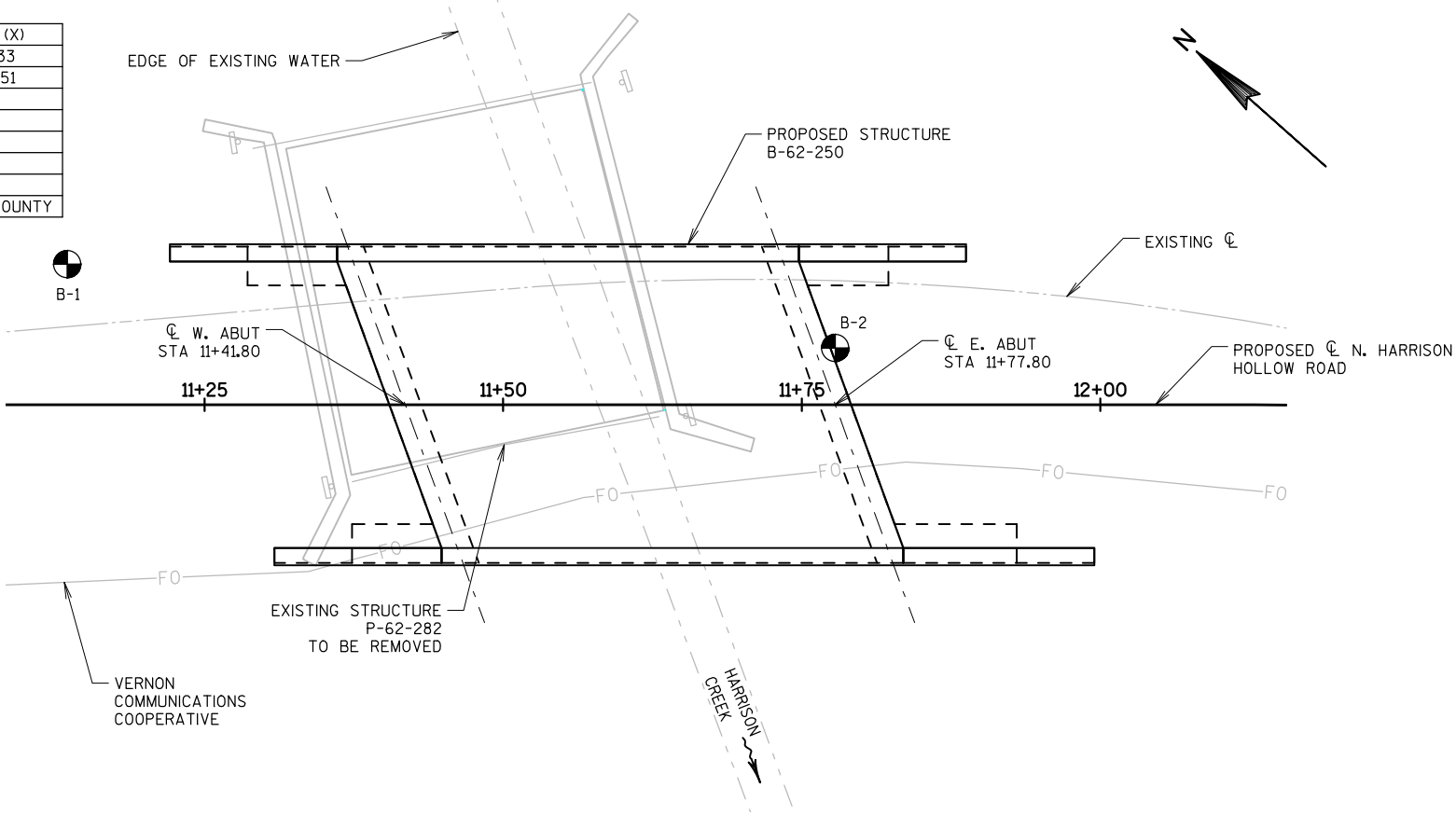


STRUCTURE BACKFILL LIMITS



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-62-250			
DRAWN BY		PKF	PLANS CK'D. ETP
CROSS SECTION & QUANTITIES			SHEET 2 OF 10

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	JUNE 18, 2015	134602.702	720615.233
2	JUNE 18, 2015	134655.647	720578.051
BORINGS COMPLETED BY: CHOSEN VALLEY TESTING			
REPORT COMPLETED BY: CHOSEN VALLEY TESTING			
ALL COORDINATES REFERENCED TO WCCS NAD 83(9) VERNON COUNTY			



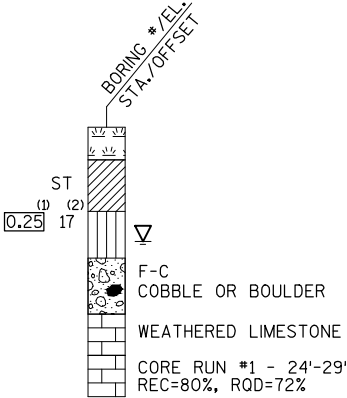
STATE PROJECT NUMBER

5407-00-70

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

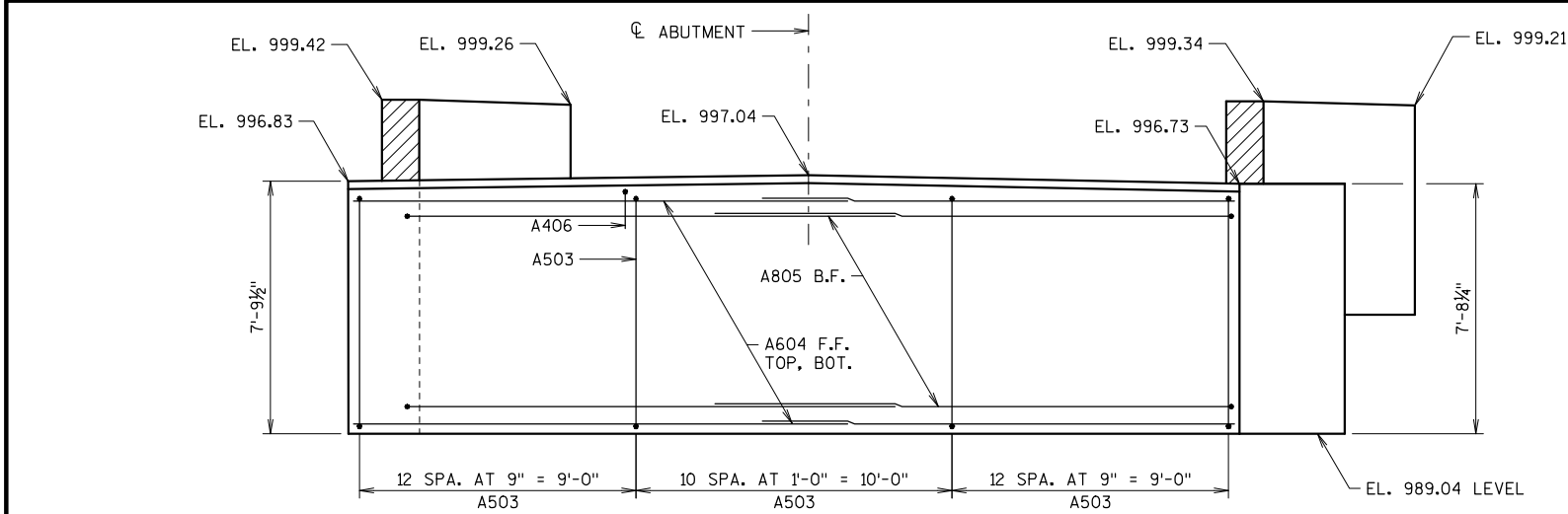
ABBREVIATIONS

F-Fine M-Medium C-Coarse st-shelby tube

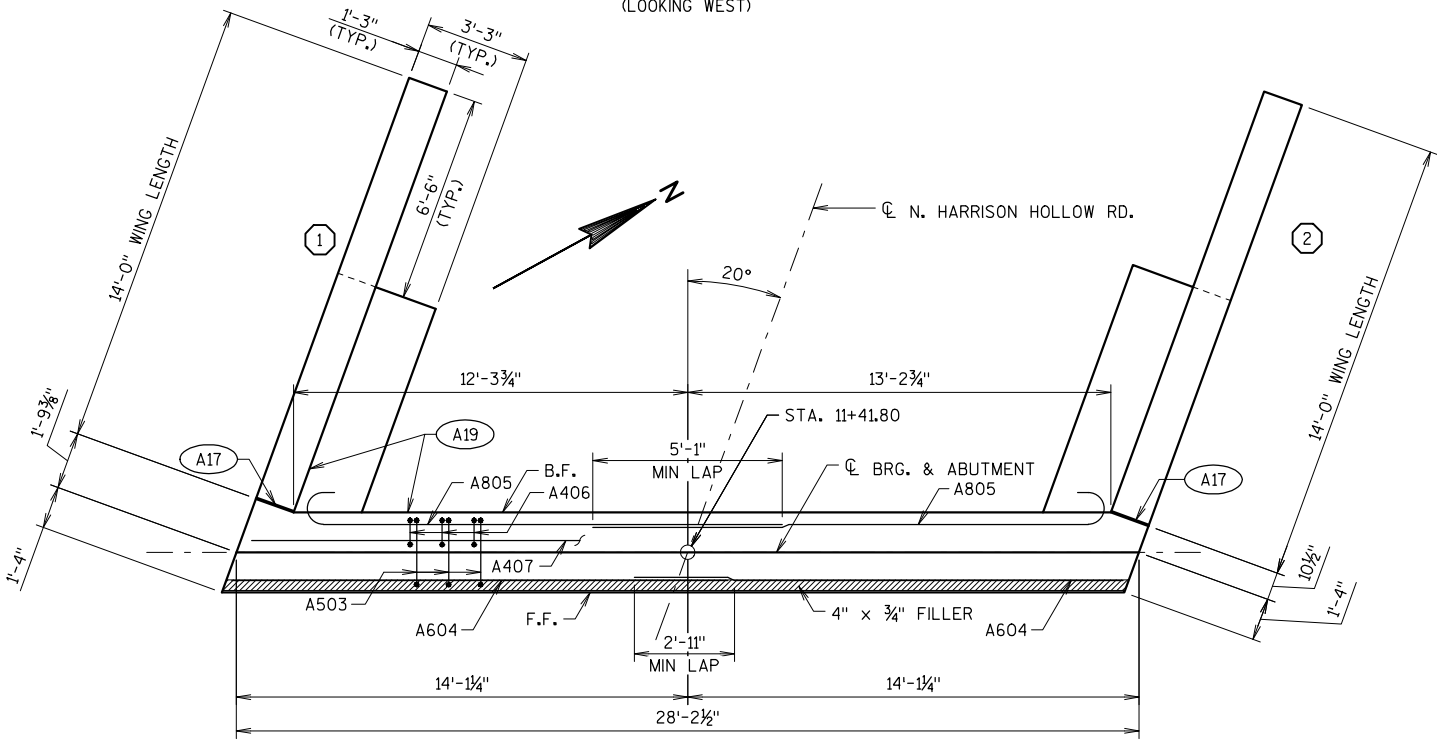
SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

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.

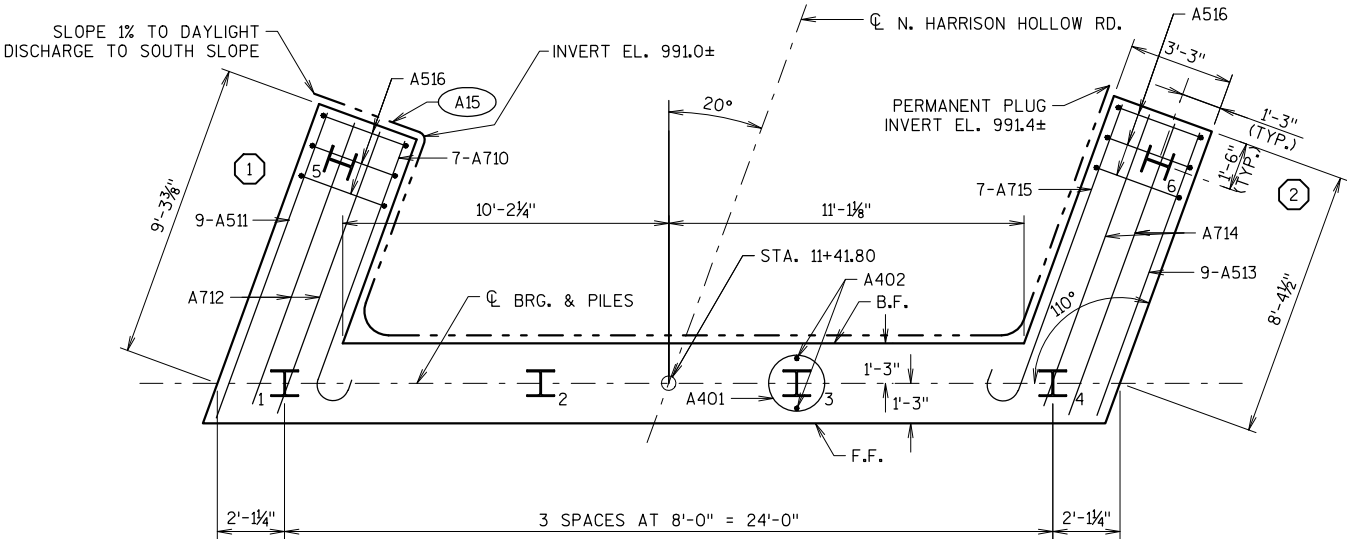
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-62-250			
DRAWN BY		PKF	PLANS CK'D. ETP
SUBSURFACE EXPLORATION			SHEET 3 OF 10



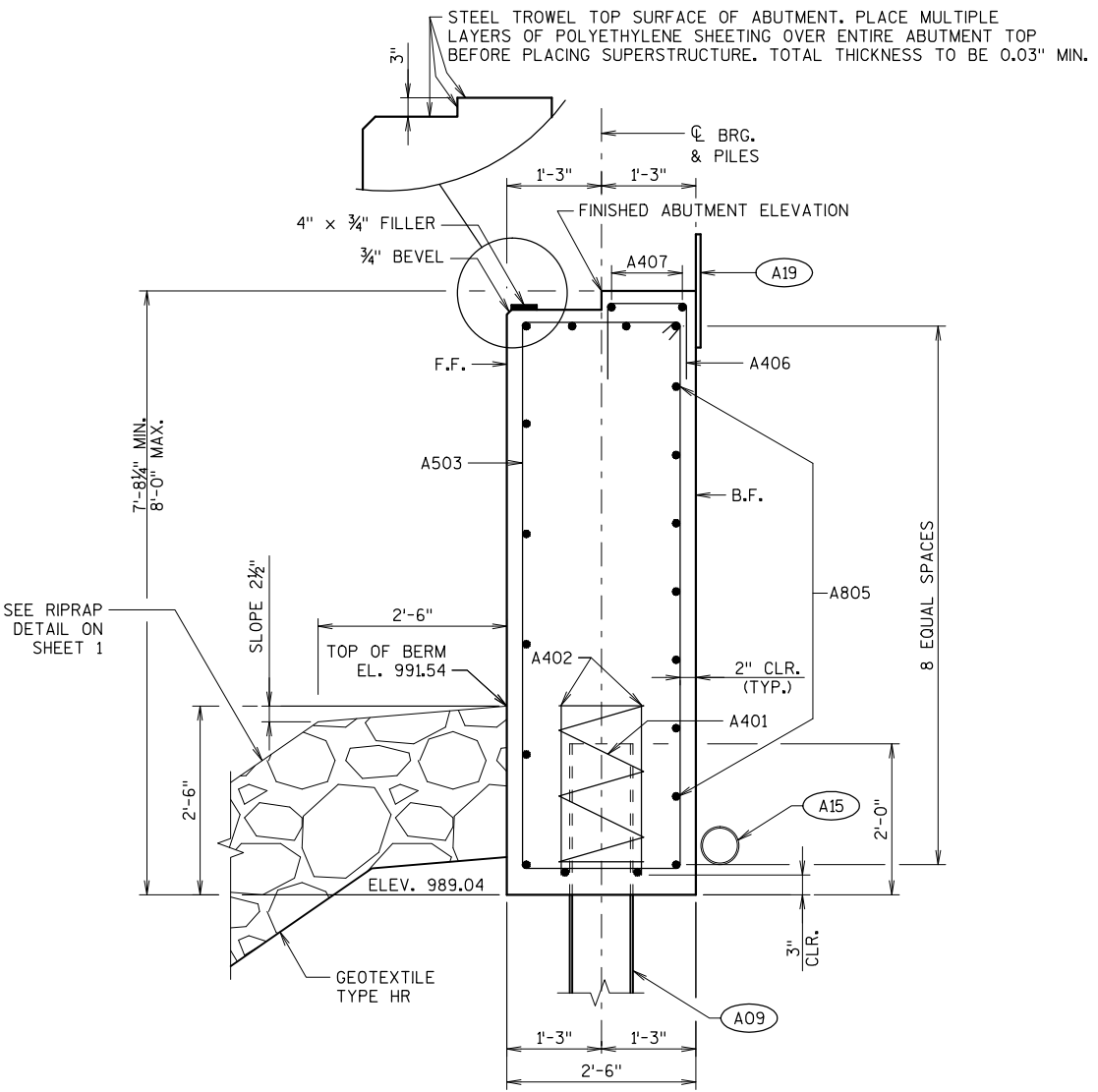
ELEVATION
(LOOKING WEST)



PLAN



PILE PLAN



SECTION THRU BODY
HORIZONTAL BARS NOT OTHERWISE IDENTIFIED ARE A604 BARS

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-62-250			
DRAWN BY		PKF	PLANS CK'D. ETP
WEST ABUTMENT			SHEET 4 OF 10

BILL OF BARS - WEST ABUTMENT

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

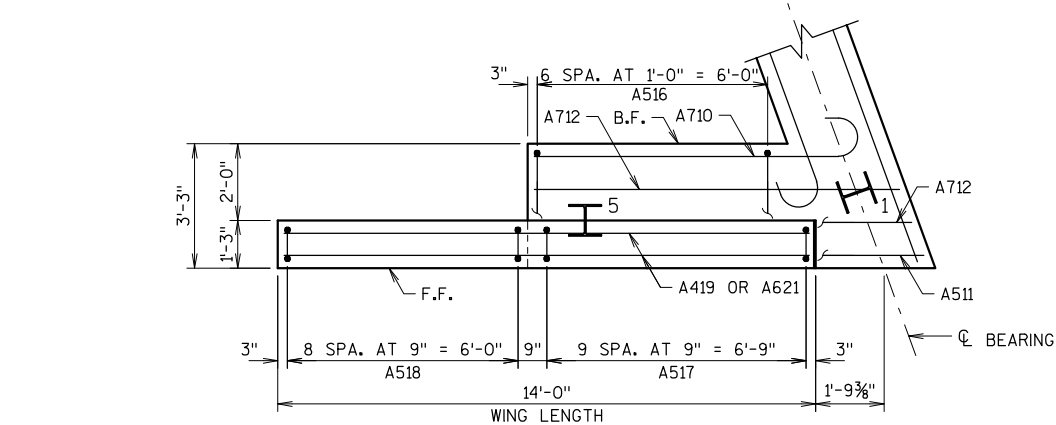
BAR MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
NON-COATED BARS					TOTAL WEIGHT = 2,040 LBS
A401	4	28'-0"	X		BODY - AT PILES - 1 PER PILE VERT.
A402	8	2'-3"			BODY - AT PILES - 2 PER PILE VERT.
A503	35	18'-11"	X		BODY - STIRRUPS VERT.
A604	24	15'-5"			BODY - B.F. & F.F. HORIZ.
A805	14	15'-9"	X		BODY - B.F. HORIZ.
A406	35	3'-3"	X		BODY - ABUT SEAT VERT.
A407	4	14'-11"			BODY - ABUT SEAT HORIZ.
COATED BARS					TOTAL WEIGHT = 1,670 LBS
A710	7	9'-3"	X		WING 1 - B.F. HORIZ.
A511	9	10'-3"			WING 1 - F.F. HORIZ.
A712	2	9'-4"			WING 1 - TOP HORIZ.
A513	9	9'-4"			WING 2 - F.F. HORIZ.
A714	2	9'-8"			WING 2 - TOP HORIZ.
A715	7	10'-10"	X		WING 2 - B.F. HORIZ.
A516	16	20'-11"	X		WINGS 1 & 2 - BODY VERT.
A517	20	9'-6"	X		WINGS 1 & 2 VERT.
A518	18	13'-3"	X		WINGS 1 & 2 VERT.
A419	12	13'-7"			WINGS 1 & 2 - B.F. & F.F. HORIZ.
A420	24	7'-9"			WINGS 1 & 2 - B.F. & F.F. HORIZ.
A621	4	13'-7"			WINGS 1 & 2 - TOP HORIZ.

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

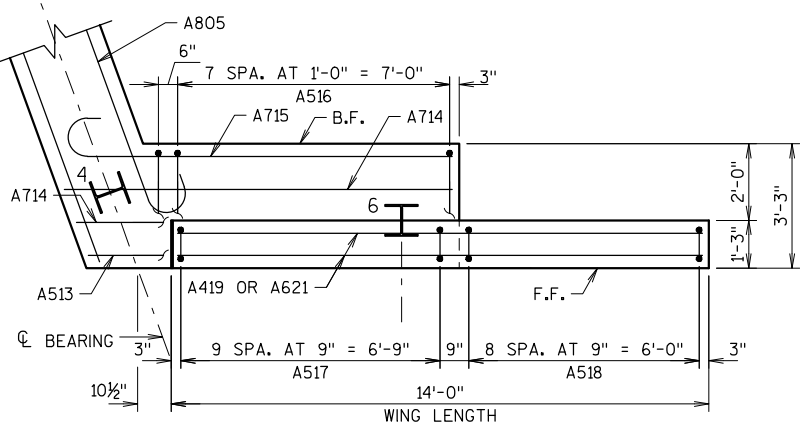
LEGEND

- (A03) OPTIONAL KEYED CONST. JOINT FORMED BY BEVELED 2" x 6" (18" RUBBERIZED MEMBRANE WATERPROOFING AT B.F. & 3/4" "V" GROOVE AT F.F. IF JOINT IS USED).
- (A09) SUPPORT ABUTMENT ON PILING STEEL HP 10-INCH x 42 LB, ESTIMATED 20 FEET LONG DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE. SEE ADDITIONAL FOUNDATION DATA ON SHEET 1 AND PILE SPLICE DETAILS ON SHEET 2.
- (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) 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 PPT. BARS & DIMENSIONS SEE SHEET NO. 10.

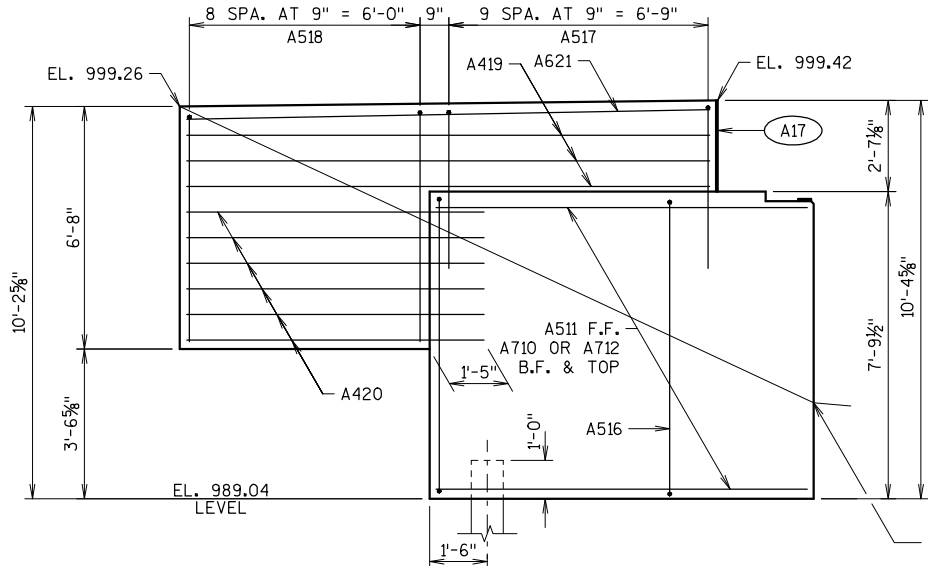
B.F. DENOTES BACK FACE
F.F. DENOTES FRONT FACE
E.F. DENOTES EACH FACE



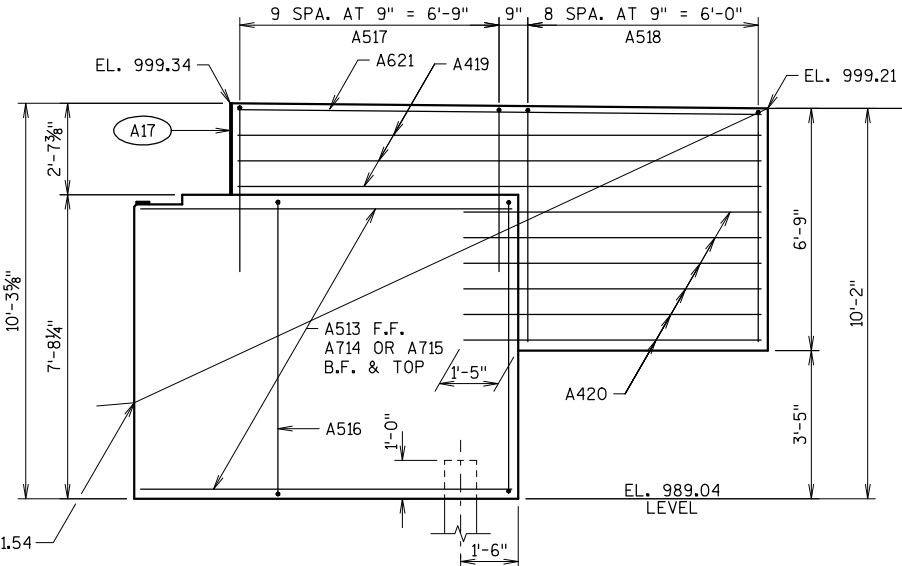
PLAN WING 1



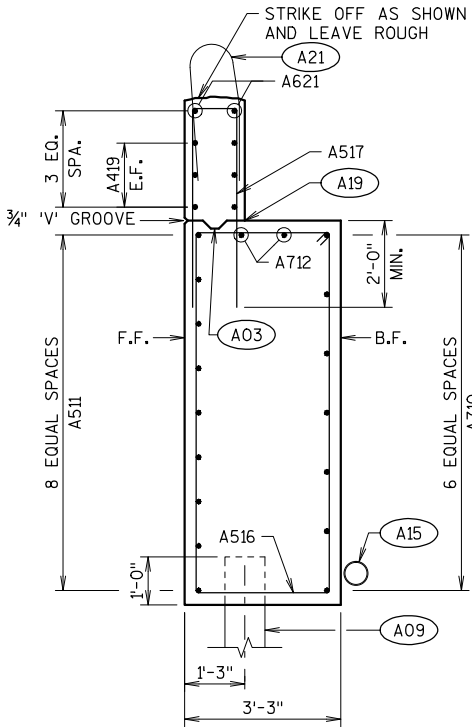
PLAN WING 2



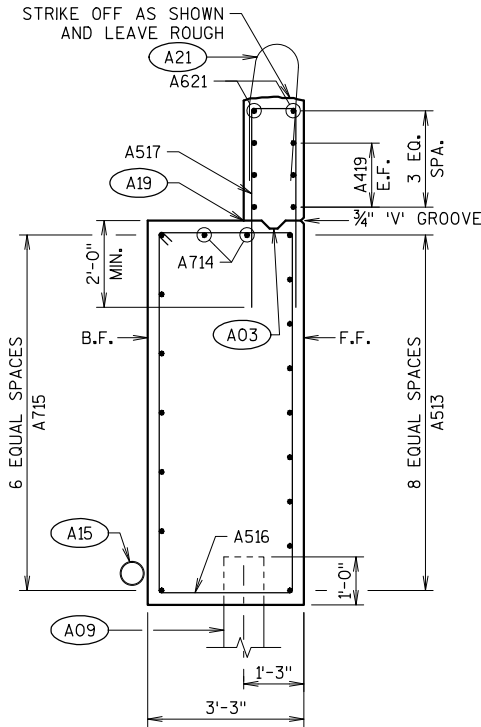
ELEVATION WING 1



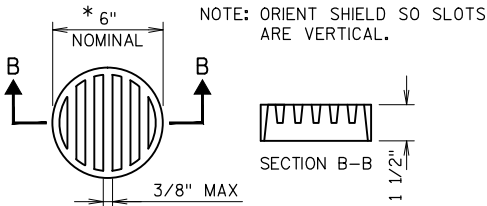
ELEVATION WING 2



SECTION THRU WING 1



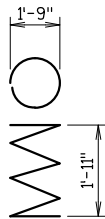
SECTION THRU WING 2



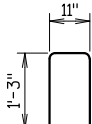
RODENT SHIELD DETAIL

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

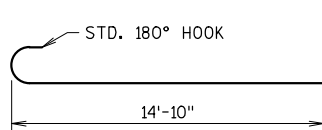
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL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



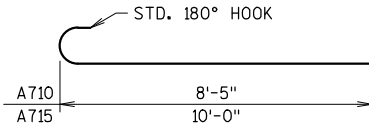
A401



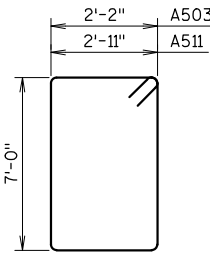
A406



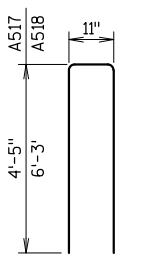
A805



A710, A715



A503, A516



A517, A518



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-62-250			
DRAWN BY		PKF	PLANS CK'D. ETP
WEST ABUTMENT DETAILS			SHEET 5 OF 10

BILL OF BARS - EAST ABUTMENT

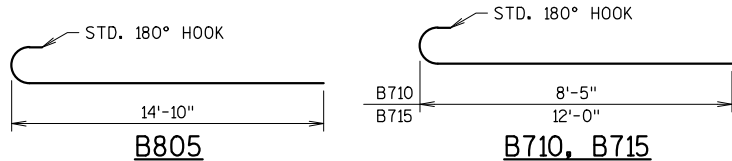
DIMENSIONS IN BENDING DETAILS ARE OUT-TO-OUT OF BAR.

BAR MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
NON-COATED BARS					TOTAL WEIGHT = 2,060 LBS
B401	4	28'-0"	X		BODY - AT PILES - 1 PER PILE VERT.
B402	8	2'-3"			BODY - AT PILES - 2 PER PILE VERT.
B503	35	19'-4"	X		BODY - STIRRUPS VERT.
B604	24	15'-5"			BODY - B.F. & F.F. HORIZ.
B805	14	15'-9"	X		BODY - B.F. HORIZ.
B406	35	3'-3"	X		BODY - ABUT SEAT VERT.
B407	4	14'-11"			BODY - ABUT SEAT HORIZ.
COATED BARS					TOTAL WEIGHT = 1,840 LBS
B710	7	9'-3"	X		WING 3 - B.F. HORIZ.
B511	9	10'-3"			WING 3 - F.F. HORIZ.
B712	2	9'-4"			WING 3 - TOP HORIZ.
B513	9	11'-4"			WING 4 - F.F. HORIZ.
B714	2	11'-8"			WING 4 - TOP HORIZ.
B715	7	12'-10"	X		WING 4 - B.F. HORIZ.
B516	18	20'-9"	X		WINGS 3 & 4 - BODY VERT.
B517	23	10'-2"	X		WINGS 3 & 4 VERT.
B518	18	14'-0"	X		WINGS 3 & 4 VERT.
B419	6	13'-7"			WING 3 - B.F. & F.F. HORIZ.
B420	24	7'-9"			WING 3 - B.F. & F.F. HORIZ.
B621	2	13'-7"			WING 3 - TOP HORIZ.
B422	6	15'-7"			WING 4 - B.F. & F.F. HORIZ.
B623	2	15'-7"			WING 4 - TOP HORIZ.

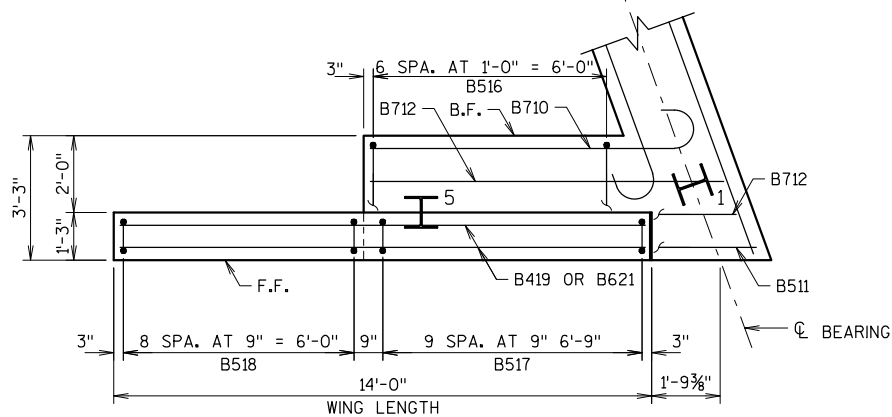
LEGEND

- (A03) OPTIONAL KEYED CONST. JOINT FORMED BY BEVELED 2" x 6" (18" RUBBERIZED MEMBRANE WATERPROOFING AT B.F. & 3/4" "V" GROOVE AT F.F. IF JOINT IS USED).
- (A09) SUPPORT ABUTMENT ON PILING STEEL HP 10-INCH x 42 LB, ESTIMATED 20 FEET LONG DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE. SEE ADDITIONAL FOUNDATION DATA ON SHEET 1 AND PILE SPLICE DETAILS ON SHEET 2.
- (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) 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 PPT. BARS & DIMENSIONS SEE SHEET NO. 10.

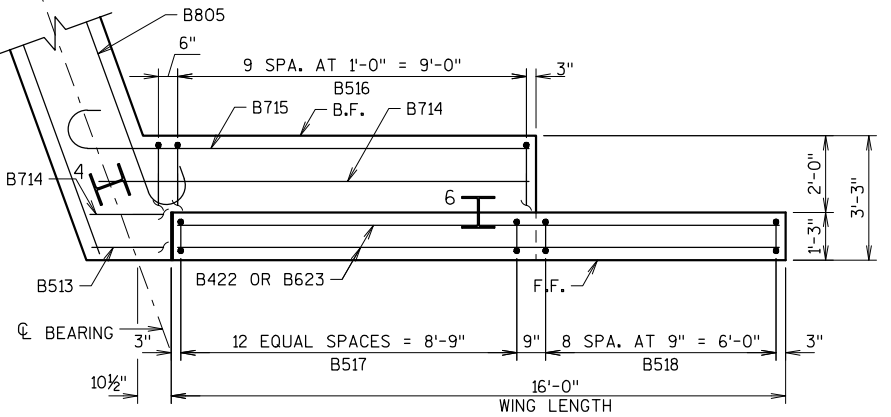
B.F. DENOTES BACK FACE
F.F. DENOTES FRONT FACE
E.F. DENOTES EACH FACE



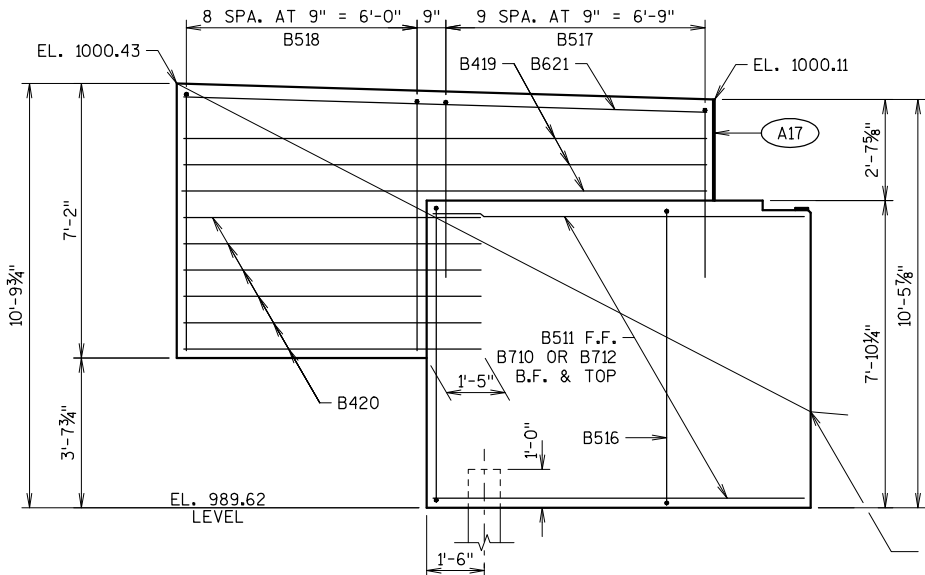
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-62-250			
DRAWN BY		PKF	PLANS CK'D. ETP
EAST ABUTMENT DETAILS			SHEET 7 OF 10



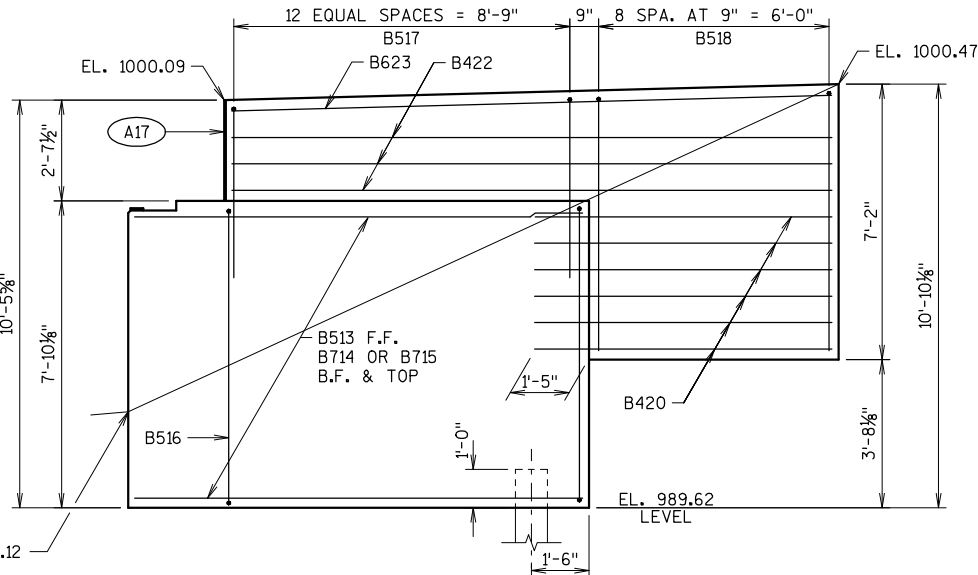
PLAN WING 3



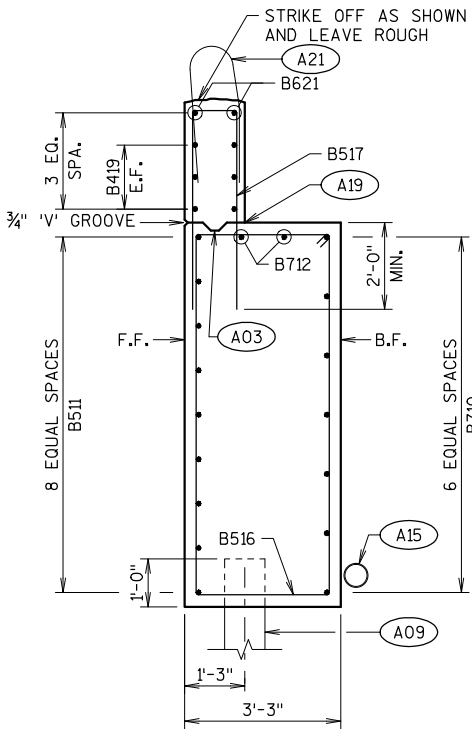
PLAN WING 4



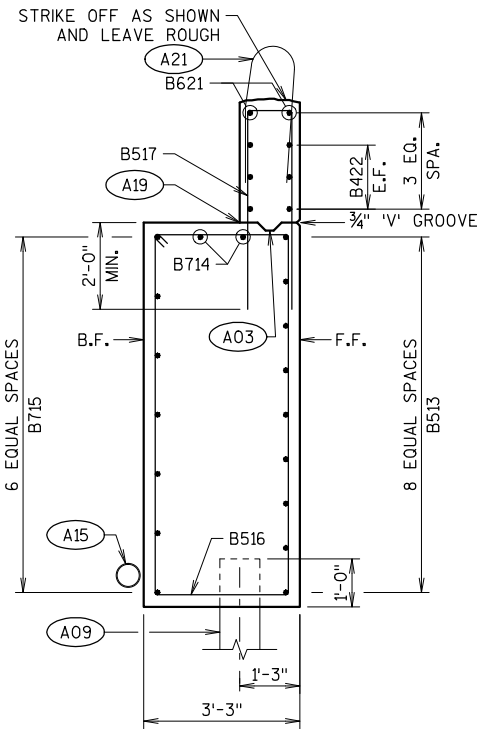
ELEVATION WING 3



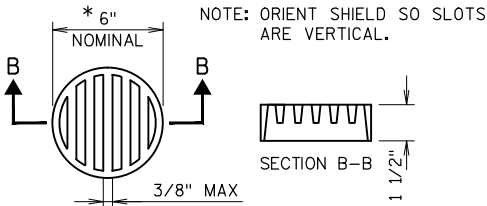
ELEVATION WING 4



SECTION THRU WING 3



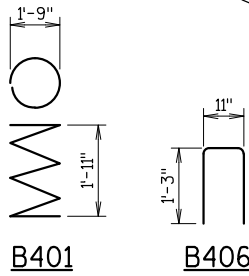
SECTION THRU WING 4



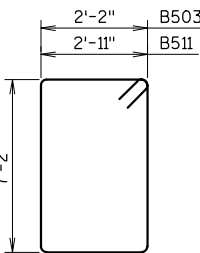
RODENT SHIELD DETAIL

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

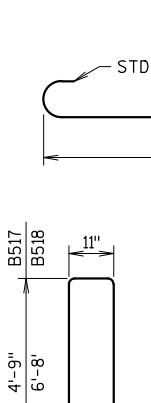
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL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



B401



B503, B516



B517, B518

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.

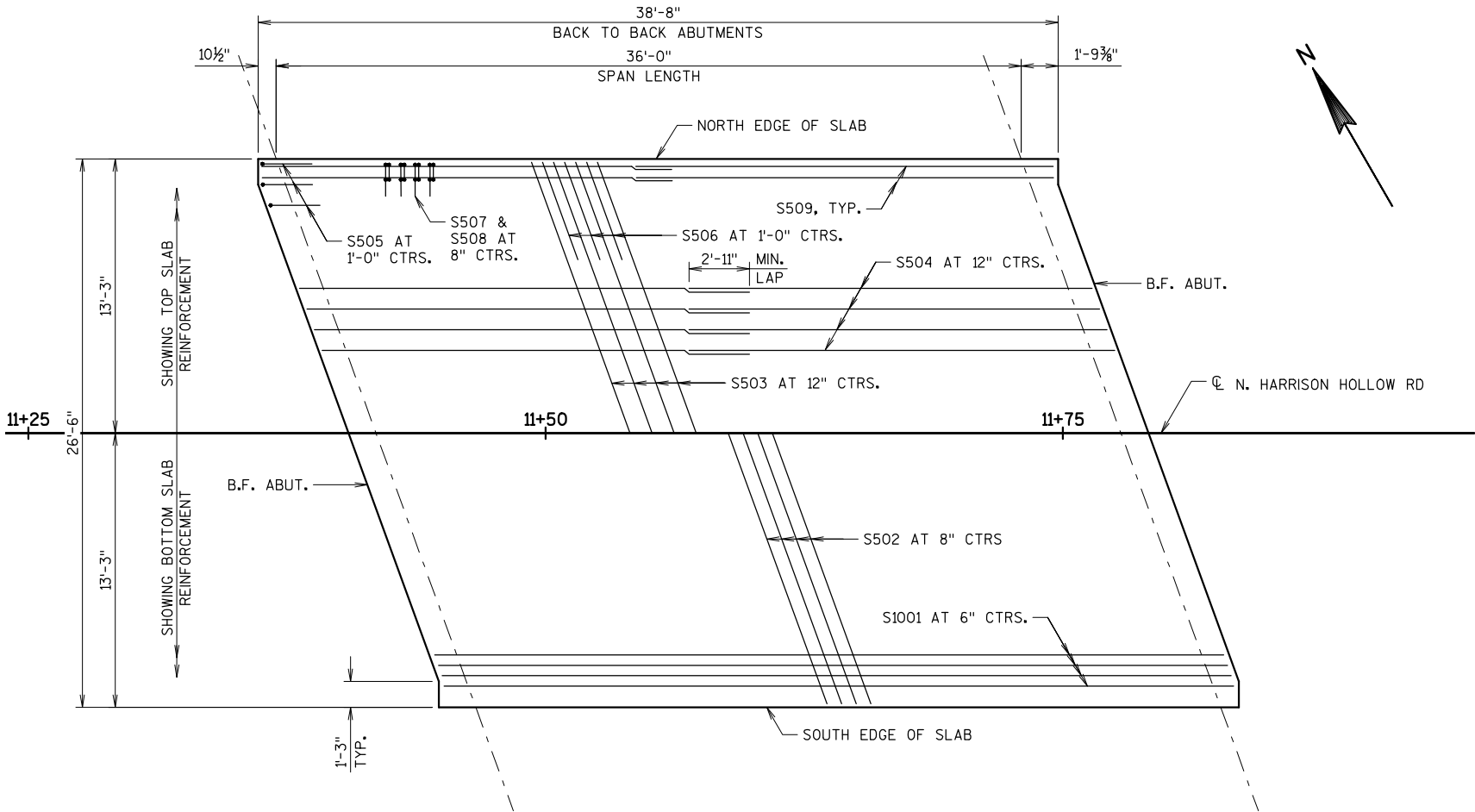
TRANSVERSE BARS SHALL BE PLACED PARALLEL TO THE CL OF SUBSTRUCTURE UNITS.

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

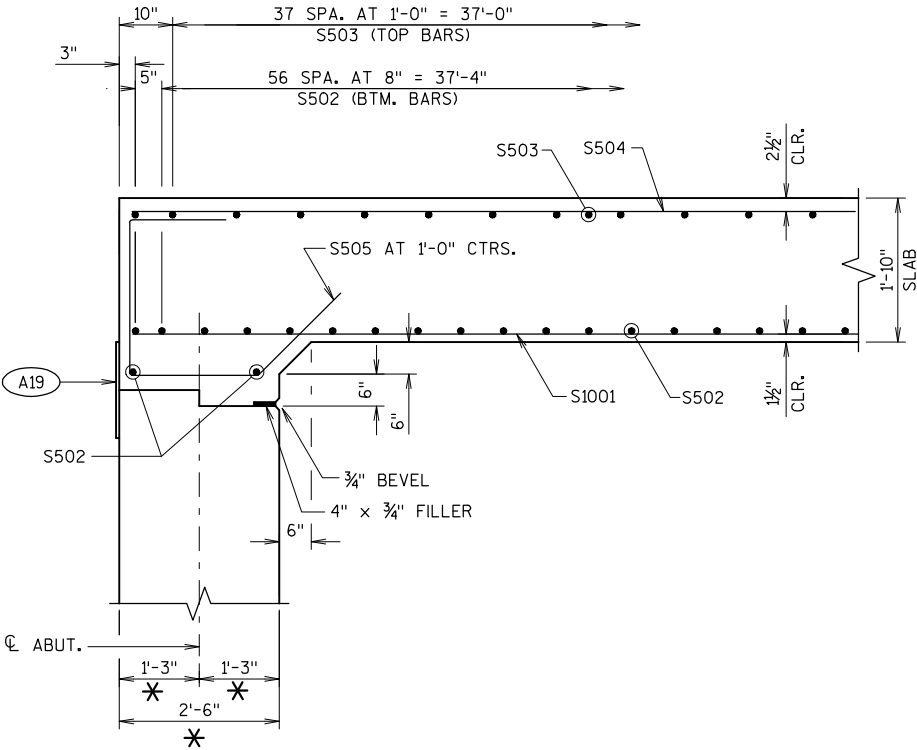
LEGEND

A19 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.

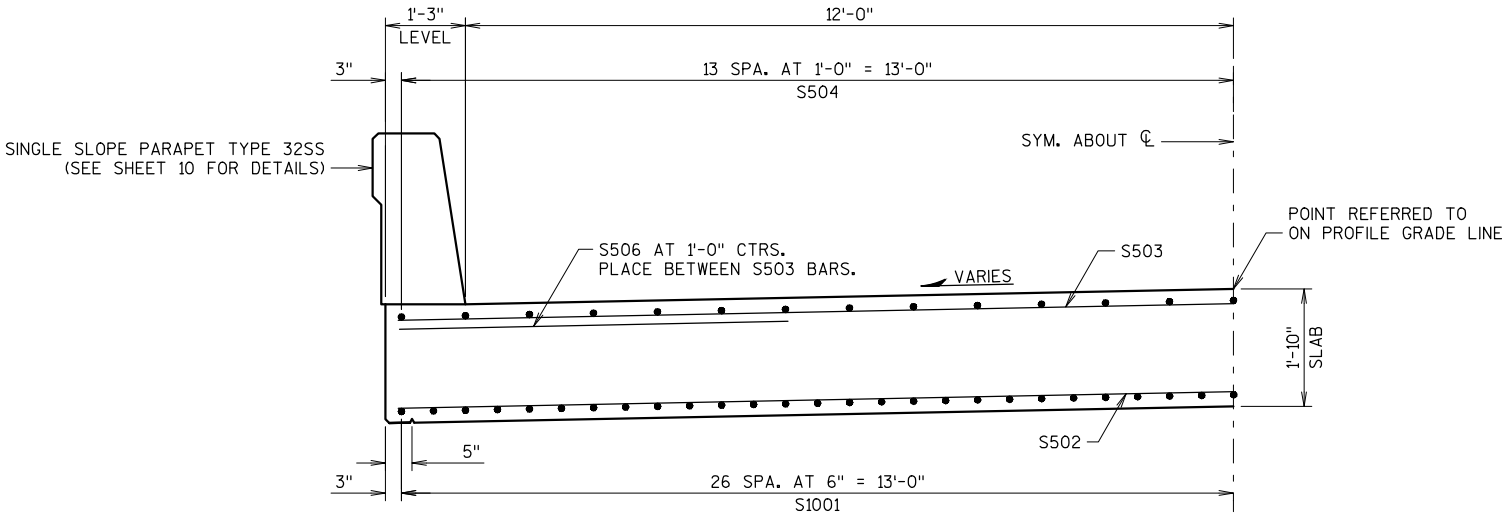
* DIMENSION IS NORMAL TO CL SUBSTRUCTURE.



PLAN



PARTIAL LONGITUDINAL SECTION



TYPICAL SECTION THRU SLAB

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-62-250			
DRAWN BY		PKF	PLANS CK'D. ETP
SUPERSTRUCTURE		SHEET 8 OF 10	

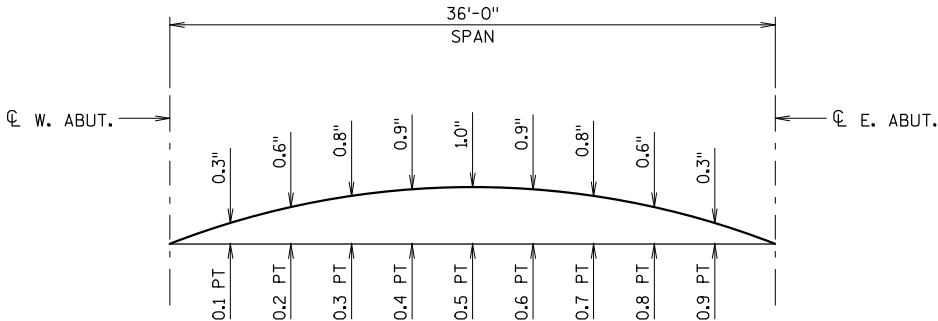


BILL OF BARS - SUPERSTRUCTURE

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

BAR MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION	
COATED BARS					TOTAL WEIGHT = 15,250 LBS	
S1001	53	38'-4"			SLAB - BTM	LONGIT.
S502	67	27'-10"			SLAB - BTM	TRANS.
S503	38	27'-10"			SLAB - TOP	TRANS.
S504	54	20'-8"			SLAB - TOP	LONGIT.
S505	27	8'-1"	X		SLAB - AT ABUTMENTS	TRANS.
S506	76	5'-0"			SLAB - TOP	TRANS.
S507	116	4'-5"	X		PARAPETS	VERT.
S508	116	5'-0"	X		PARAPETS	VERT.
S509	24	20'-1'			PARAPETS	LONGIT.

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



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 CL OF ABUTMENTS AND AT 5/10 POINTS TO VERIFY CAMBER. TAKE ELEVATIONS ALONG GUTTER LINES AND CROWN OR CL.

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.

TOP OF DECK ELEVATIONS

LOCATION	CL OF W. ABUT.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	CL OF E. ABUT.
NORTH EDGE OF SLAB	999.33	999.37	999.42	999.47	999.54	999.61	999.69	999.77	999.86	999.96	1000.05
CL STRUCTURE	999.63	999.66	999.71	999.75	999.80	999.86	999.92	999.98	1000.05	1000.12	1000.20
SOUTH EDGE OF SLAB	999.41	999.46	999.51	999.56	999.62	999.68	999.74	999.81	999.88	999.96	1000.04

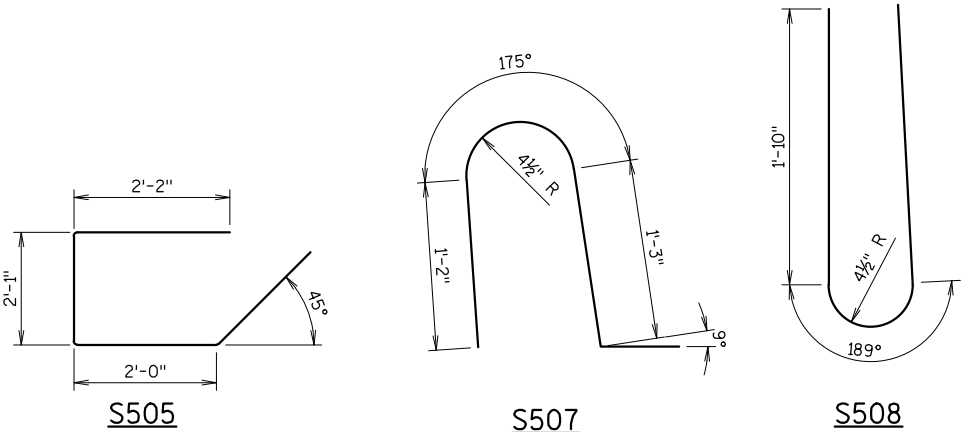
ELEVATIONS SHOWN ARE FINISHED DECK AND DO NOT INCLUDE ALLOWANCES OF DEAD LOAD DEFLECTION AND FUTURE CREEP.

ELEVATIONS ACCOUNT FOR 1'-3" LEVEL AREA UNDER PARAPETS.

SURVEY TOP OF SLAB ELEVATIONS

SPAN POINT	W. ABUT.	0.5	E. ABUT.
NORTH EDGE OF SLAB			
CL STRUCTURE			
SOUTH EDGE OF SLAB			

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



NO.

DATE

REVISION

BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-62-250

DRAWN BY

PKF

PLANS CK'D.

ETP

SUPERSTRUCTURE DETAILS

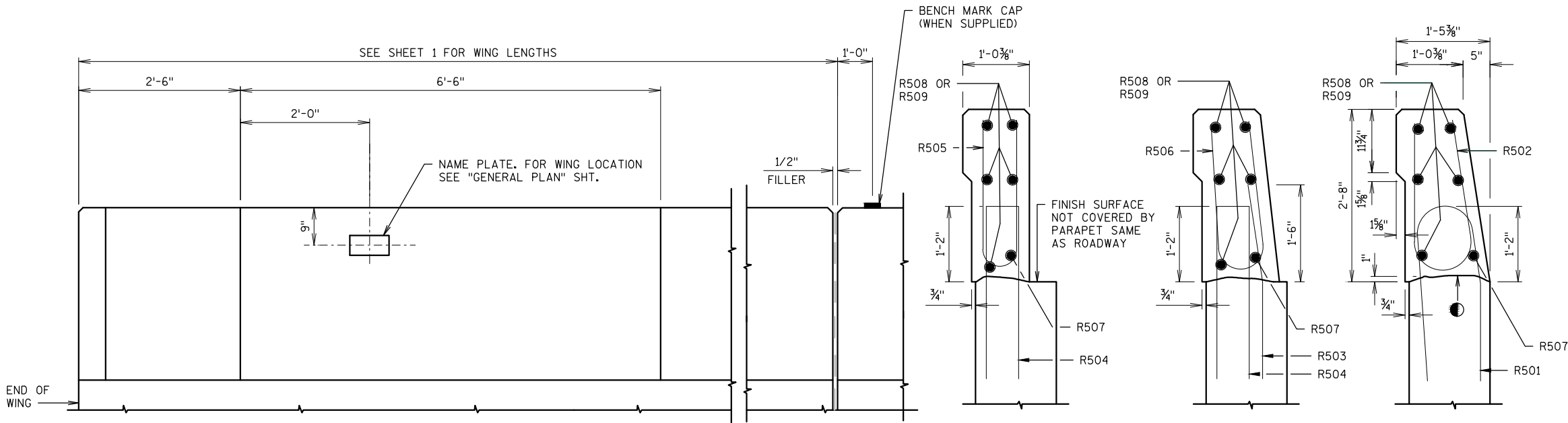
SHEET 9 OF 10

BILL OF BARS - PARAPETS

BARS SHOWN ARE FOR ALL 4 WINGS.

BAR MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
COATED BARS					TOTAL WEIGHT = 1,640 LBS
R501	35	5'-10"	X		PARAPET VERT.
R502	35	5'-0"	X		PARAPET VERT.
R503	48	3'-0"	X		PARAPET VERT.
R504	68	5'-7"	X		PARAPET VERT.
R505	44	4'-9"	X		PARAPET VERT.
R506	24	4'-10"	X		PARAPET VERT.
R507	3	13'-6"	X		PARAPET: WINGS 1-3 HORIZ.
R508	15	13'-6"			PARAPET: WINGS 1-3 HORIZ.
R509	5	15'-6"			PARAPET: WING 4 HORIZ.
R510	1	15'-6"	X		PARAPET: WING 4 HORIZ.

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

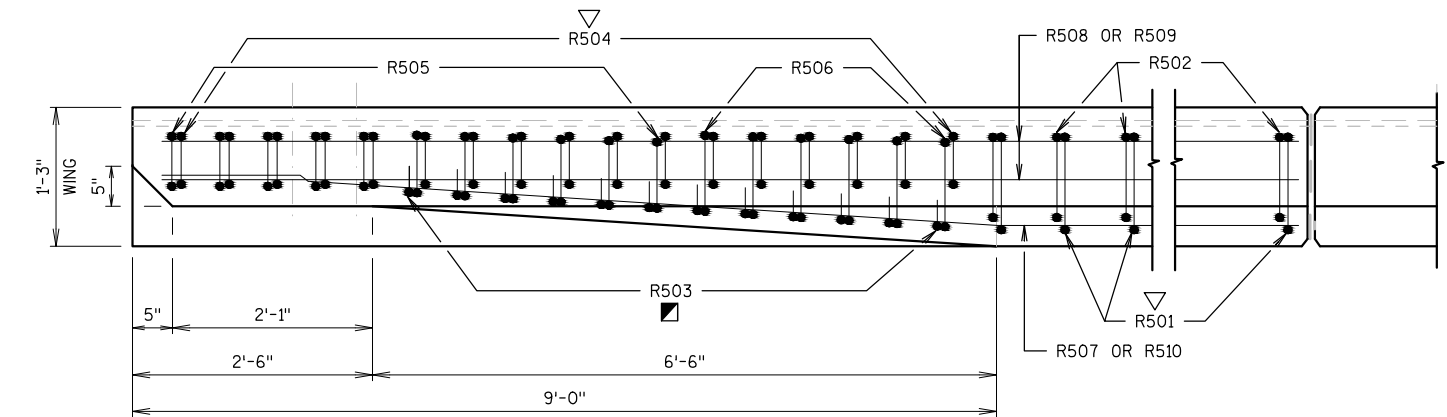


INSIDE ELEVATION

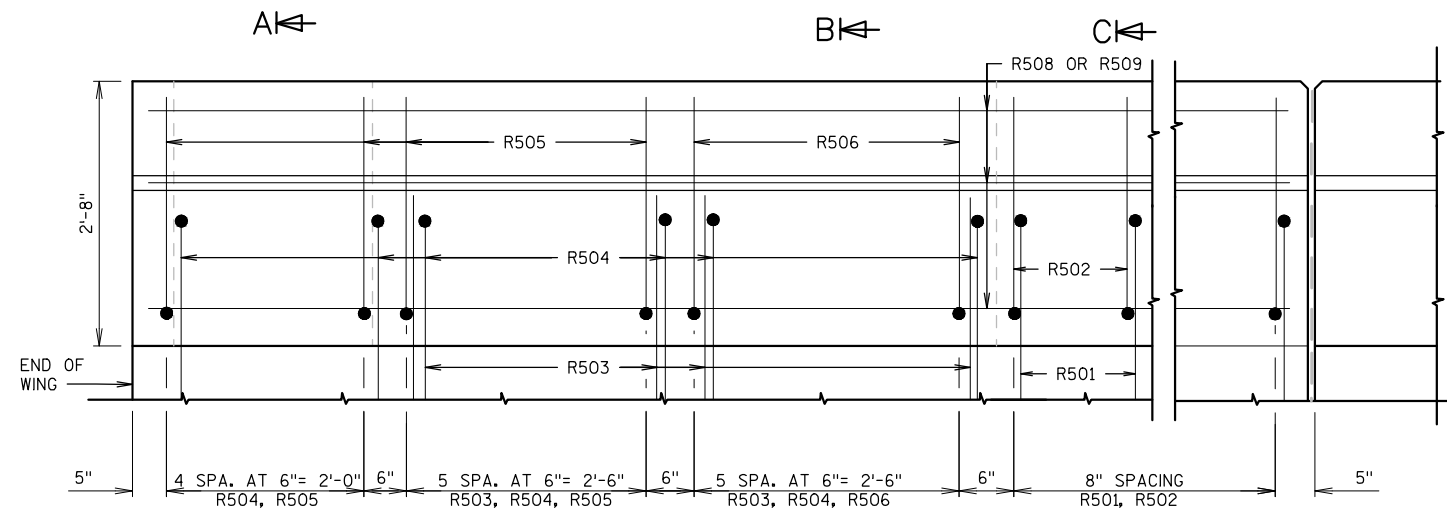
SECTION A

SECTION B

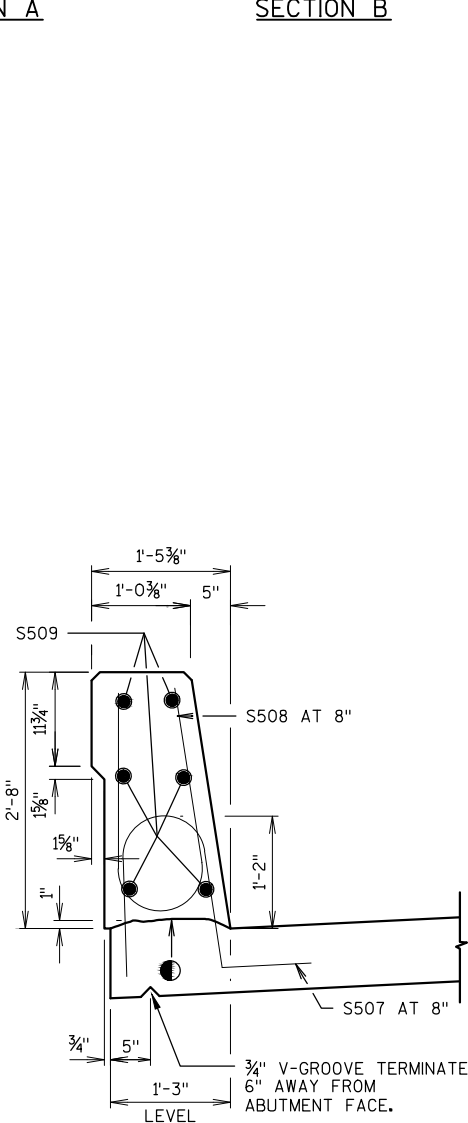
SECTION C



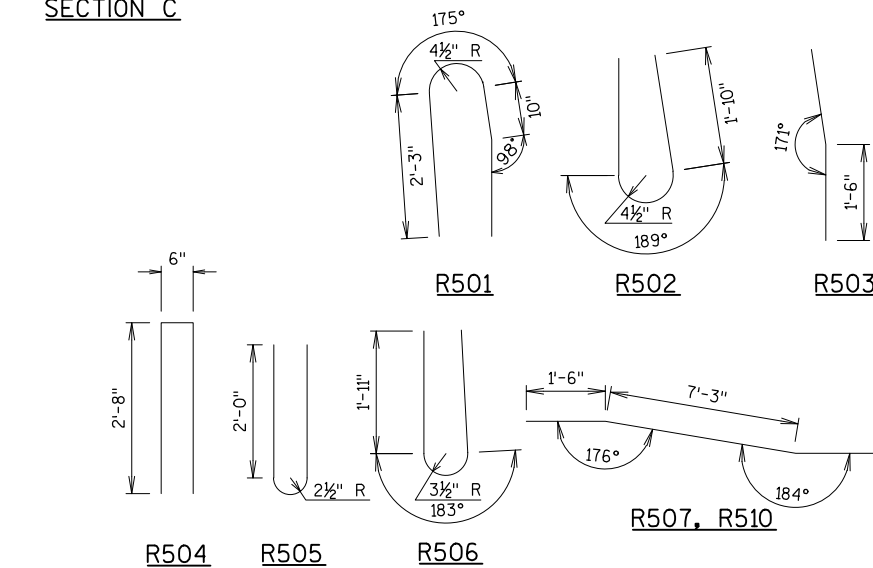
PLAN



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			
STRUCTURE B-62-250			
DRAWN BY		PKF	PLANS CKD. ETP
SINGLE SLOPE PARAPET 32SS			SHEET 10 OF 10

N. HARRISON HOLLOW ROAD

STATION	Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		Mass Ordinate (6)
		Cut (1,2)	Salvaged/Unusable Pavement Material (3)	Available Material (4)	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.25 (5)	
10+10.7	0.00	49.97	4.37	45.60	0.52	-	-	-	-	-	0.00
10+25	12.50	46.46	3.51	42.95	4.12	22	2	1	22	1	19.15
10+37.5	12.50	33.53	2.71	30.82	2.16	19	1	1	41	3	34.41
10+50	12.50	30.49	2.17	28.32	5.23	15	1	2	56	5	45.97
10+75	25.00	29.13	1.93	27.20	4.25	28	2	4	83	11	66.19
11+00	25.00	5.81	1.71	4.10	19.21	16	2	11	99	24	67.11
11+25	25.00	-	-	-	55.94	3	1	35	102	68	25.52
11+30.84	5.84	-	-	-	29.05	-	-	9	102	79	14.04
11+37	6.16	-	-	-	141.75	-	-	19	102	104	-10.33
11+40	3.00	-	-	-	91.11	-	-	13	102	120	-26.50

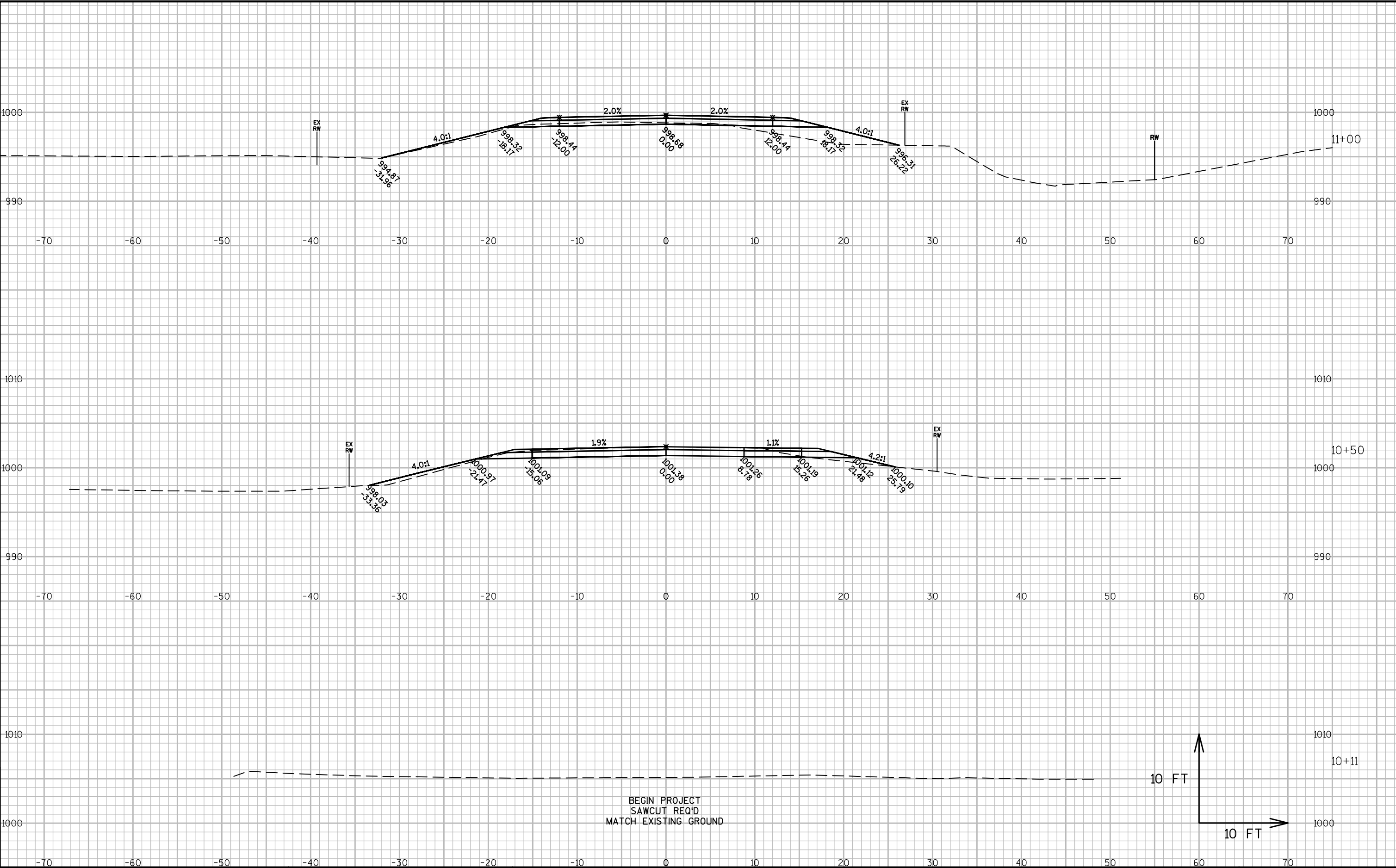
STRUCTURE B-62-250

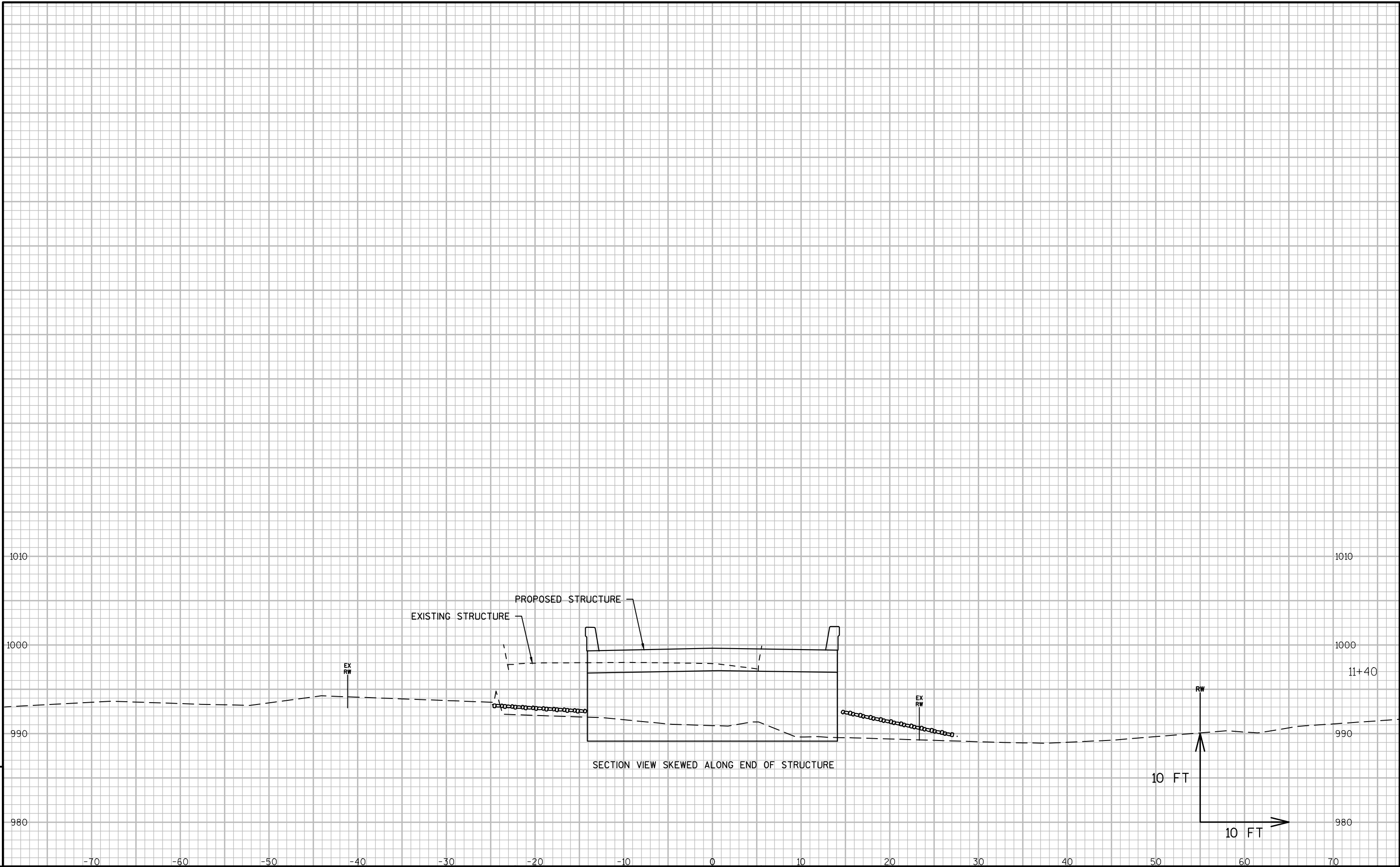
11+79	0.00	-	-	-	10.01	-	-	-	102	120	-26.50
11+84	5.00	-	-	-	43.82	-	-	5	102	74	19.29
11+88.76	4.76	-	-	-	40.80	-	-	10	102	92	0.93
12+00	11.24	-	-	-	147.30	-	-	39	102	141	-48.00
12+12.9	12.90	-	-	-	124.04	-	-	65	102	222	-129.00
12+25	12.10	0.92	0.64	0.28	92.22	0	0	48	102	283	-189.53
12+49.89	24.89	9.17	1.52	7.65	102.46	5	1	90	107	395	-298.06
12+75	25.11	15.36	1.53	13.83	132.22	11	1	109	118	532	-424.45
12+86.89	11.89	19.62	1.53	18.09	148.53	8	1	62	126	609	-494.71
13+00	13.11	-	-	-	-	5	0	36	131	654	-535.38



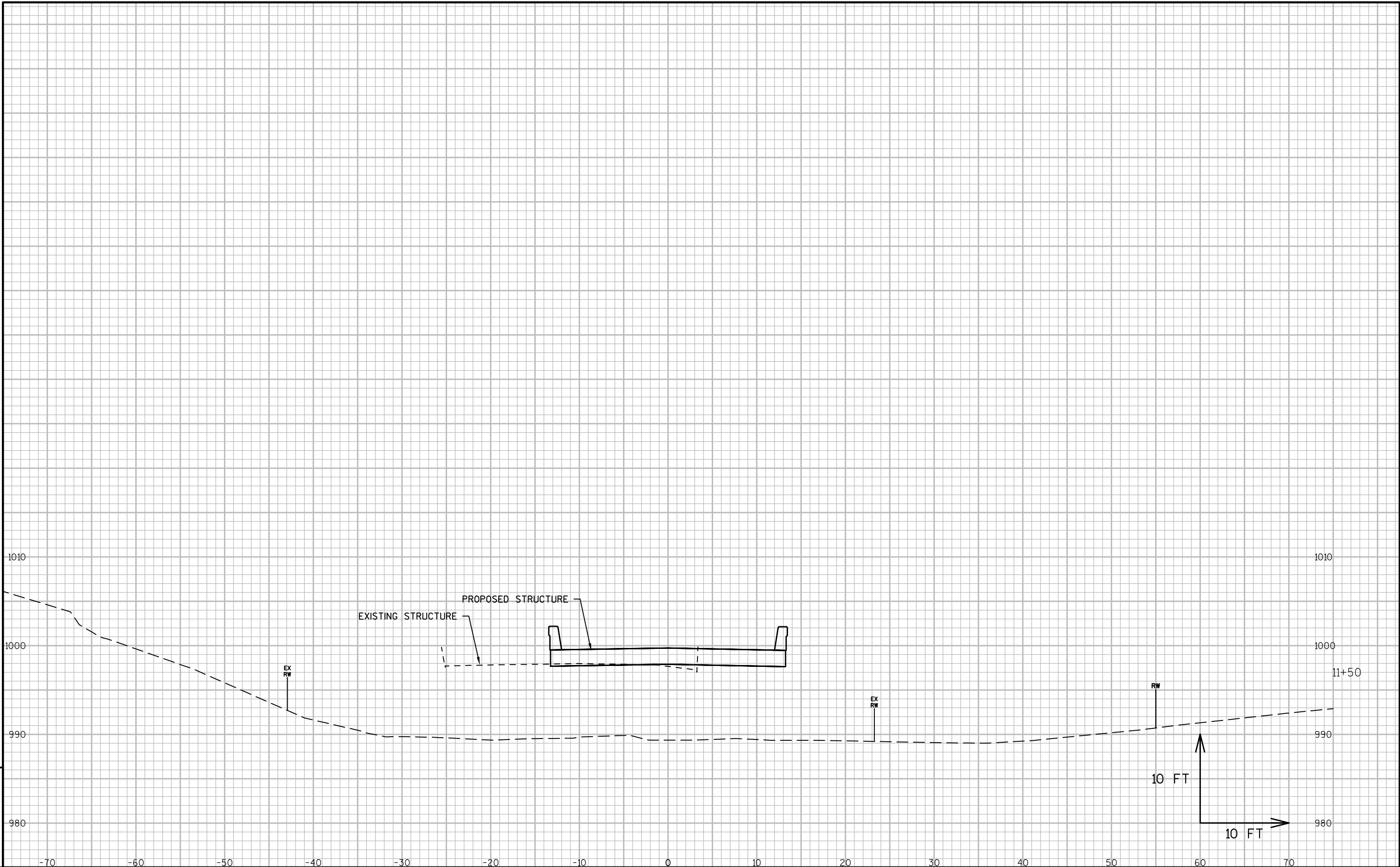
- 1) Item number 205.0100
- 2) Salvaged/Unsuable Pavement Material is included in Cut.
- 3) Salvaged/Unusable Pavement Material
- 4) Available Material = Cut - Salvaged/Unusuable Pavement Material
- 5) Expanded Fill. Factor = 1.25
- 6) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.
- 7) Use 118 CY of material from Division 1. Borrow Excavation item number 208.0100

▲PAY PLAN QUANTITY

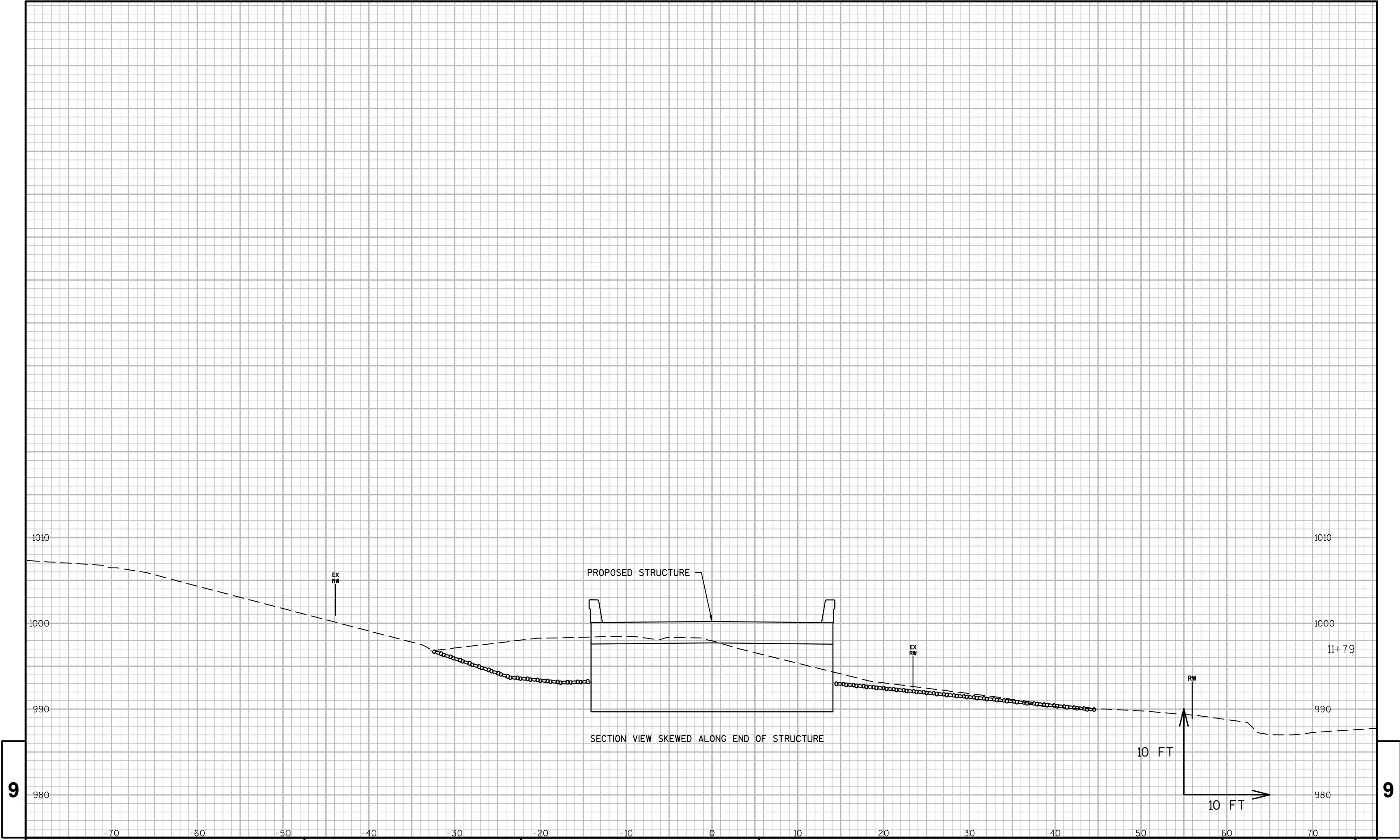




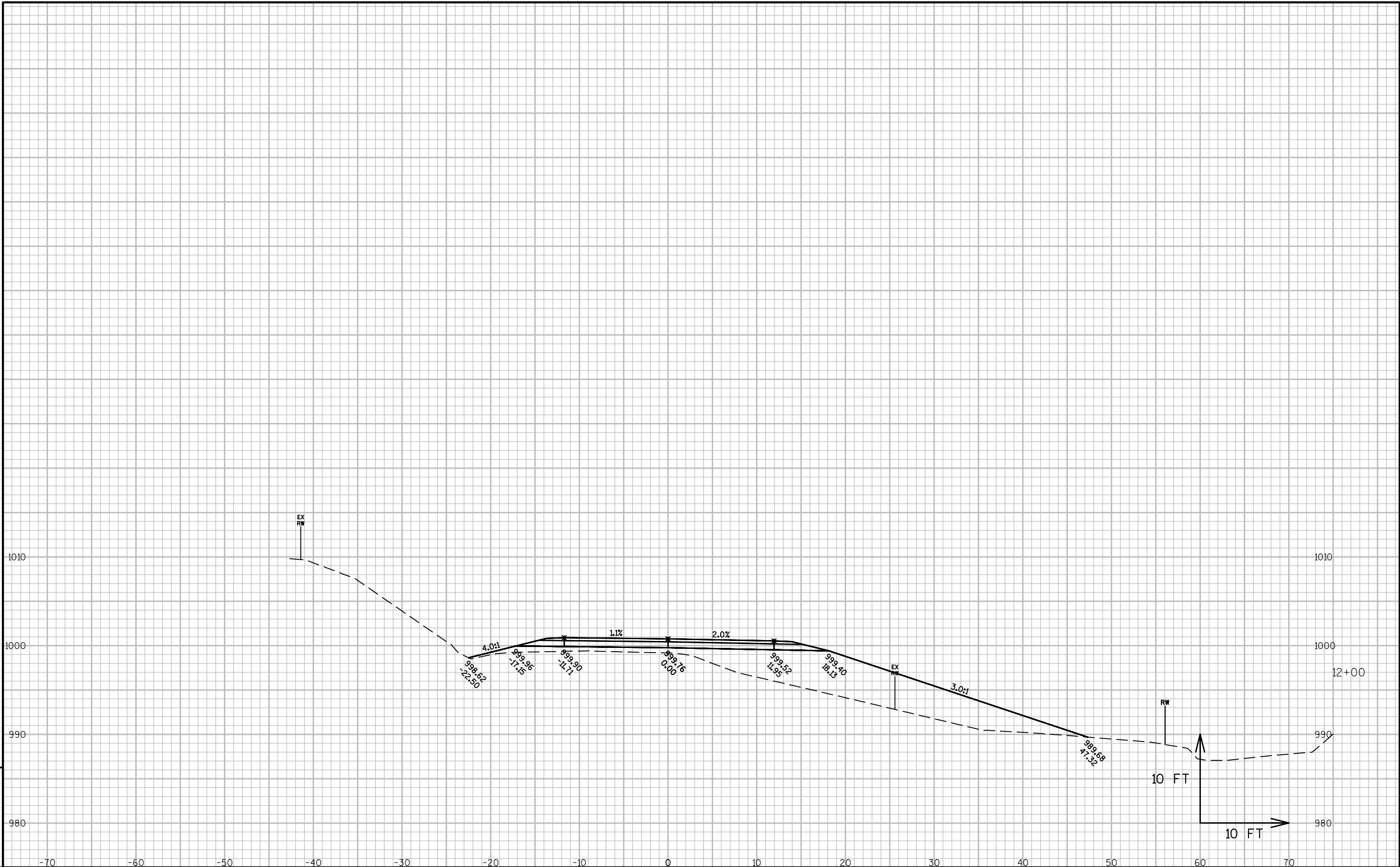
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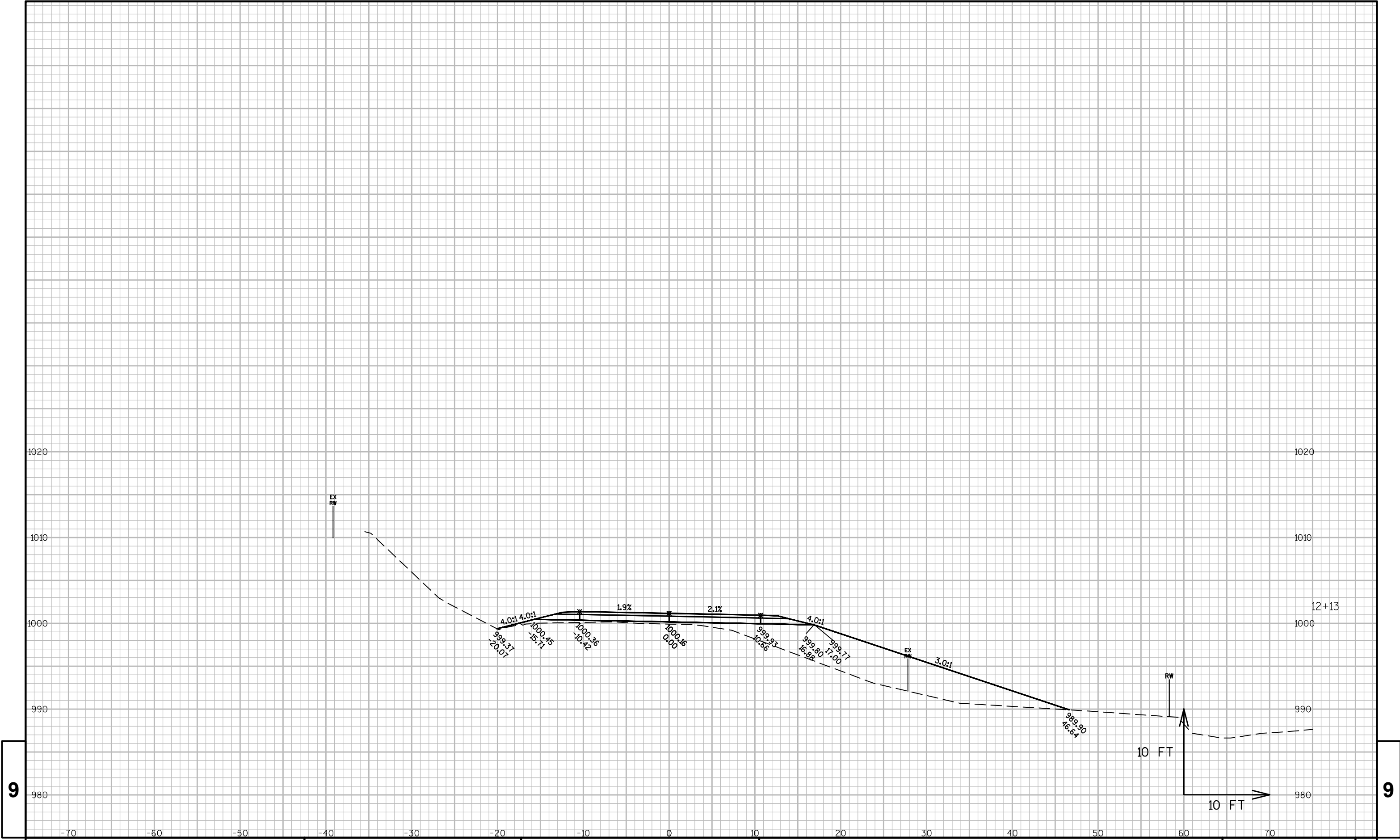
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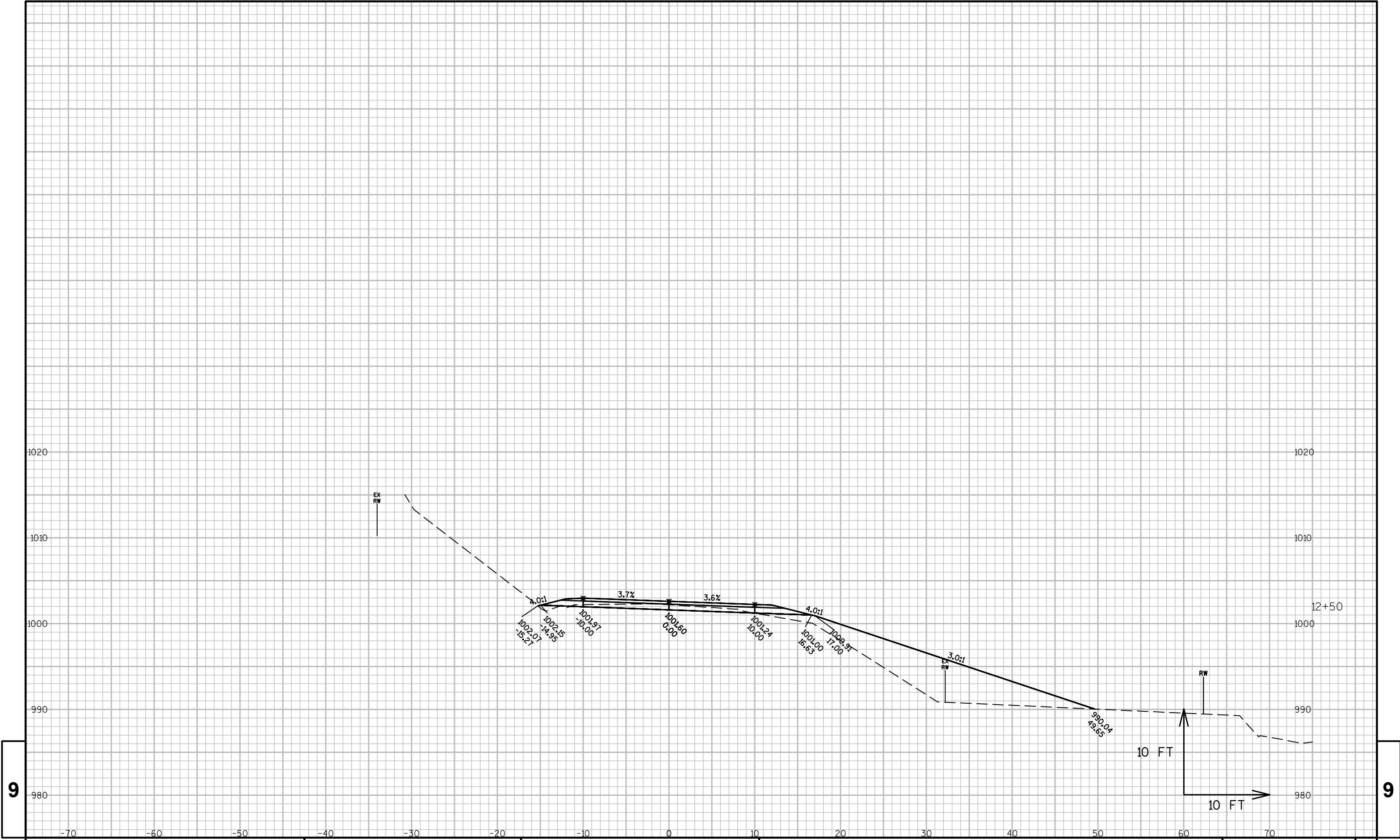


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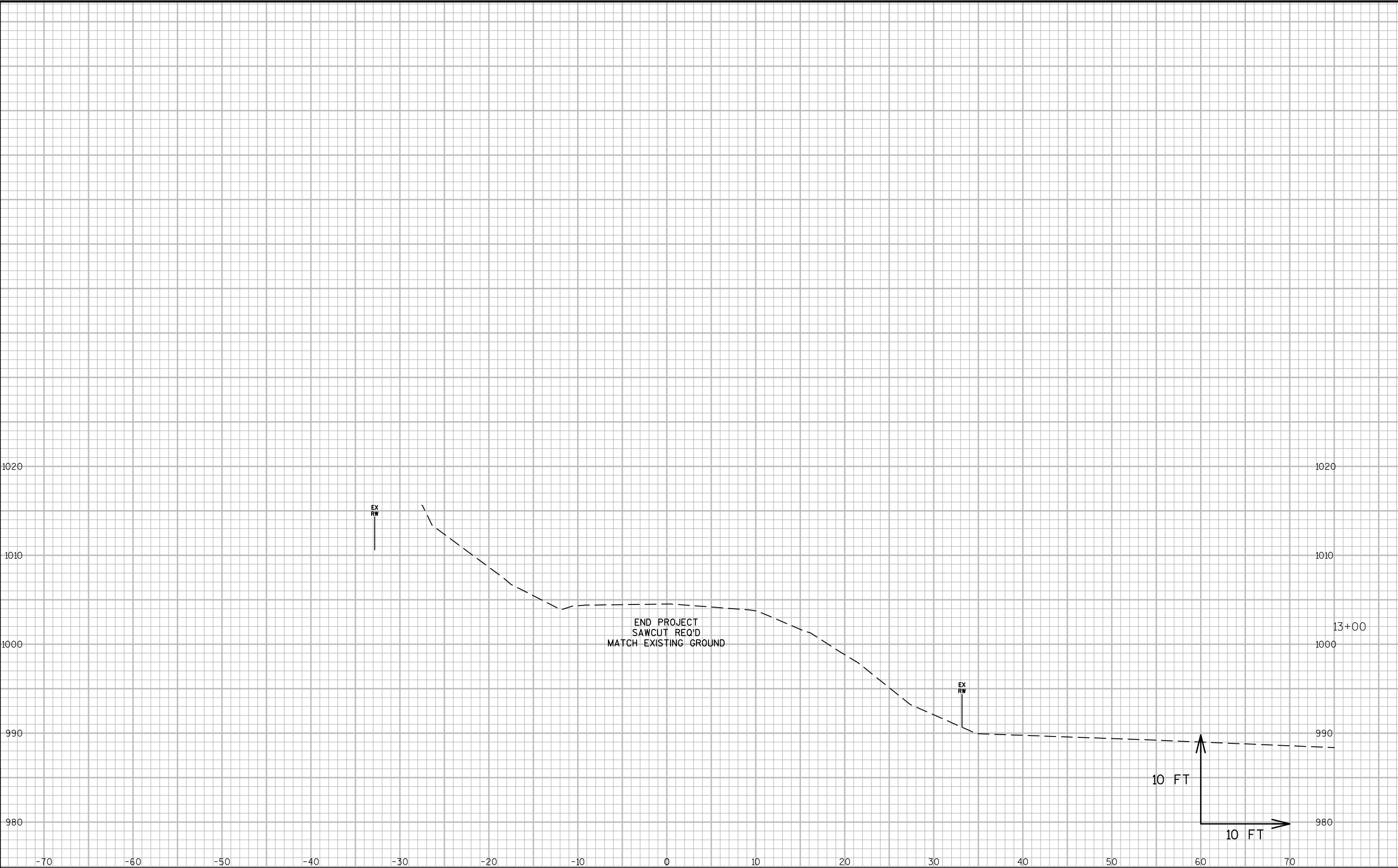
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Notes



Wisconsin Department of Transportation

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