NWL NOVEMBER 2014

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 Quantitles 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 = 84

PROJECT LOCATION

DESIGN DESIGNATION

A.A.D.T. 2014 = 710 A.A.D.T. 2034 = 900 D.H.V. = 140 D.D. = 60/40 = 3.8% DESIGN SPEED = 60 MPH = 73,000

CONVENTIONAL SYMBOLS

PLAN CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE

REFERENCE LINE EXISTING CULVERT PROPOSED CULVERT (Box or Pipe)

SLOPE INTERCEPT

COMBUSTIBLE FLUIDS

MARSH AREA

WOODED OR SHRUB AREA

PROFILE GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE

(To be noted as such) SPECIAL DITCH GRADE ELEVATION CULVERT (Profile View) UTILITIES ELECTRIC FIBER OPTIC SANITARY SEWER

___ SAN ___ STORM SEWER TELEPHONE WATER UTILITY PEDESTAL POWER POLE TELEPHONE POLE

BEGIN PROJECT

ROCK

LABEL

0 □

X

·

Ø

STA. 7+00

Y = 231982.17

X = 354039.28

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

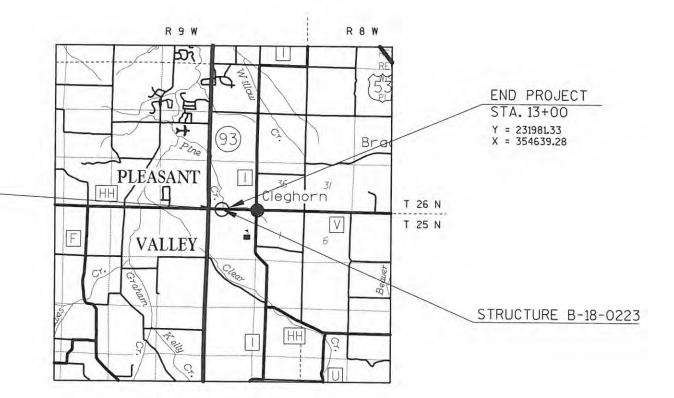
PLAN OF PROPOSED IMPROVEMENT

STH 93 - CTH

(PINE CREEK BRIDGE B180223) CTH HH

EAU CLAIRE COUNTY

STATE PROJECT NUMBER 7830-03-70



LAYOUT SCALE

TOTAL NET LENGTH OF CENTERLINE = 0.106 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS). EAU CLAIRE COUNTY

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 7830-03-70 WISC 2014234 1

> ACCEPTED FOR EAU CLAIRE COUNTY

ORIGINAL PLANS PREPARED BY SCONS/2 GUNDRY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

FAA, INC.

FAA, INC.

PRAL PROPERTY

REPARED BY Surveyor Designer

C.O. Examiner

Management Consultant

APPROVED FOR THE DEPARTMENT

KNIGHT EA

STANDARD ABBREVIATIONS

ABUT	ABUTMENT	LC	LONG CHORD OF CURVE
AC	ACRE	LS	LUMP SUM
AGG	AGGREGATE	МН	MANHOLE
ASPH	ASPHALTIC	NC	NORMAL CROWN
AVG	AVERAGE	N	NORTH
ADT	AVERAGE DAILY TRAFFIC	NO	NUMBER
BF	BACK FACE	OBLIT	OBLITERATE
ВМ	BENCH MARK	PAVT	PAVEMENT
BR	BRIDGE	PC	POINT OF CURVATURE
C/L	CENTER LINE	Pl	POINT OF INTERSECTION
Δ	CENTRAL ANGLE OR DELTA	PT	POINT OF TANGENCY
CONC	CONCRETE	LB	POUND
CR	CREEK	PE	PRIVATE ENTRANCE
CY	CUBIC YARD	R	RADIUS
C & G	CURB AND GUTTER	RCCP	REINFORCED CONCRETE CULVERT PIPE
D	DEGREE OF CURVE	RES	RESIDENCE OR RESIDENTIAL
DHV	DESIGN HOUR VOLUME	RHF	RIGHT-HAND FORWARD
D	DIRECTIONAL DISTRIBUTION	R/W	RIGHT OF WAY
DISCH	DISCHARGE	R	RIVER
DG	DITCH GRADE	RD	ROAD
DWY	DRIVEWAY	RDWY	ROADWAY
E	EAST	SALV	SALVAGED
Χ	EAST GRID COORDINATE	SAN S	SANITARY SEWER
EL	ELEVATION	S	SOUTH
ENT	ENTRANCE	SQ	SQUARE
ESALS	EQUIVALENT SINGLE AXLE LOADS	SF	SQUARE FEET
EXC	EXCAVATION	SY	SQUARE YARD
EBS	EXCAVATION BELOW SUBGRADE	SDD	STANDARD DETAIL DRAWINGS
EXIST	EXISTING	STH	STATE TRUNK HIGHWAYS
FF	FACE TO FACE	STA	STATION
FERT	FERTILIZE	SS	STORM SEWER
FE	FIELD ENTRANCE	SE	SUPERELEVATION
FL	FLOW LINE	TC	TOP OF CURB
F0	FIBER OPTIC	T OR TN	TOWN
FT	F00T	T	TRUCKS (PERCENT OF)
CWT	HUNDREDWEIGHT	TYP	TYPICAL
HYD	HYDRANT	UNCL	UNCLASSIFIED
ID	INSIDE DIAMETER	VAR	VARIABLE
INV	INVERT	VC	VERTICAL CURVE
IP.	IRON PIPE OR PIN	W	WEST
LHF	LEFT-HAND FORWARD	Ϋ́	NORTH GRID COORDINATE

ΥD

YARD

GENERAL NOTES

WHEN THE OUANTITY OF THE ITEMS OF BASE OR SURFACE COURSE IS MEASURED FOR PAYMENT BY THE TON OR YD3, THE DEPTH OR THICKNESS OF THE COURSE 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 ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM ALL UTILITY

USE 9.5 mm AGGREGATE IN HMA PAVEMENT TYPE E-0.3, PLACE HMA PAVEMENT TYPE E-0.3 IN TWO 11/2-INCH LAYERS.

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

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

WETLANDS EXIST WITHIN THE PROJECT AREA. DO NOT DISTURB THE EXISTING GROUND OUTSIDE THE SLOPE INTERCEPTS WITHIN THE LIMITS OF THE WETLAND.

DO NOT OPERATE EQUIPMENT, EXCAVATE, OR PLACE FILL WITHIN THE EXISTING STREAM.

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

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

SIGN PLATE DETAILS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" UNLESS OTHERWISE PROVIDED FOR IN THE PLAN.

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

REPAIR THE DETOUR ROUTE PAVEMENT SURFACE BY REPLACING THE SURFACE AT THE EXISTING DEPTH OR OVERLAYING 1.5" MINIMUM AS DIRECTED BY THE ENGINEER USING THE ITEM ASPHALTIC SURFACE DETOURS. UTILITIES



CENTURYLINK 835 RED IRON RD. BLACK RIVER FALLS, WI 54615 ATTN: DONNA SMOTHERS PHONE: (715) 284-4375

CHARTER COMMUNICATIONS 1201 MCCANN DRIVE AL TOONA, WI 54720 ATTN: SHANE YODER PHONE: (715) 831-8940

EAU CLAIRE ENERGY COOPERATIVE PO BOX 368 FALL CREEK, WI54742 ATTN: RANDY BAJER PHONE: 715-832-1603

DESIGN CONTACT

FLEMING, ANDRE & ASSOCIATES, INC. 3615 N. HASTINGS WAY SUITE 100 EAU CLAIRE, WI 54703 ATTENTION: MATT GUNDRY PHONE: 715-832-8400 Email: mjgundry@faa-engineers.com

W.D.N.R. CONTACT

AMY CRONK 810 W. MAPLE ST. SPOONER, WI54801 PHONE: 715-635-4229 Email: amy.cronk@Wisconsin.gov

PROJECT NO: 7830-03-70

HWY: CTH HH

COUNTY: EAU CLAIRE

GENERAL NOTES

SHEET

PLOT SCALE: NOT TO SCALE

FILE NAME: F:\Drawings\2011-111\0001\2000.dgn

PLOT DATE : 1/29/2014

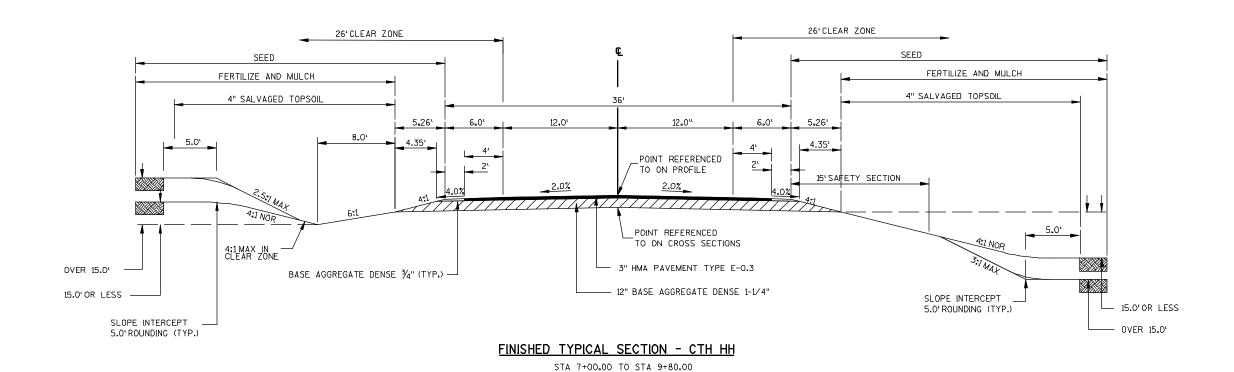
PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

LENGTH OF CURVE

LINEAR FOOT

EXISTING TYPICAL SECTION - CTH HH

- 3" - 8" BASE COURSE



STA 10+20.00 TO STA 13+00.00

FILE NAME : F:\Drawings\2011-111\0001\2100.dgn

HWY: CTH HH

PROJECT NO: 7830-03-70

COUNTY: EAU CLAIRE

TYPICAL SECTIONS

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

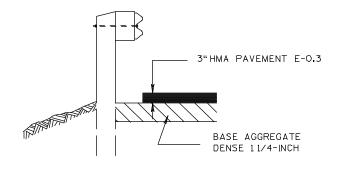
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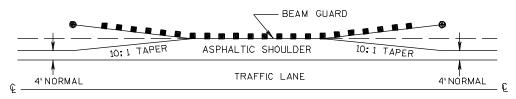
WISDOT/CADDS SHEET 42

SHEET

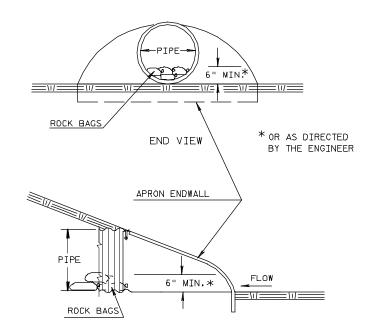
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PLOT DATE : 1/28/2014



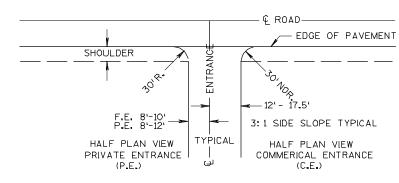


DETAIL FOR ASPHALTIC SHOULDER AT BEAM GUARD

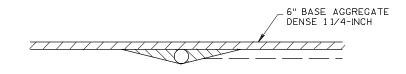


SIDE VIEW

CULVERT PIPE CHECK



PLAN VIEW

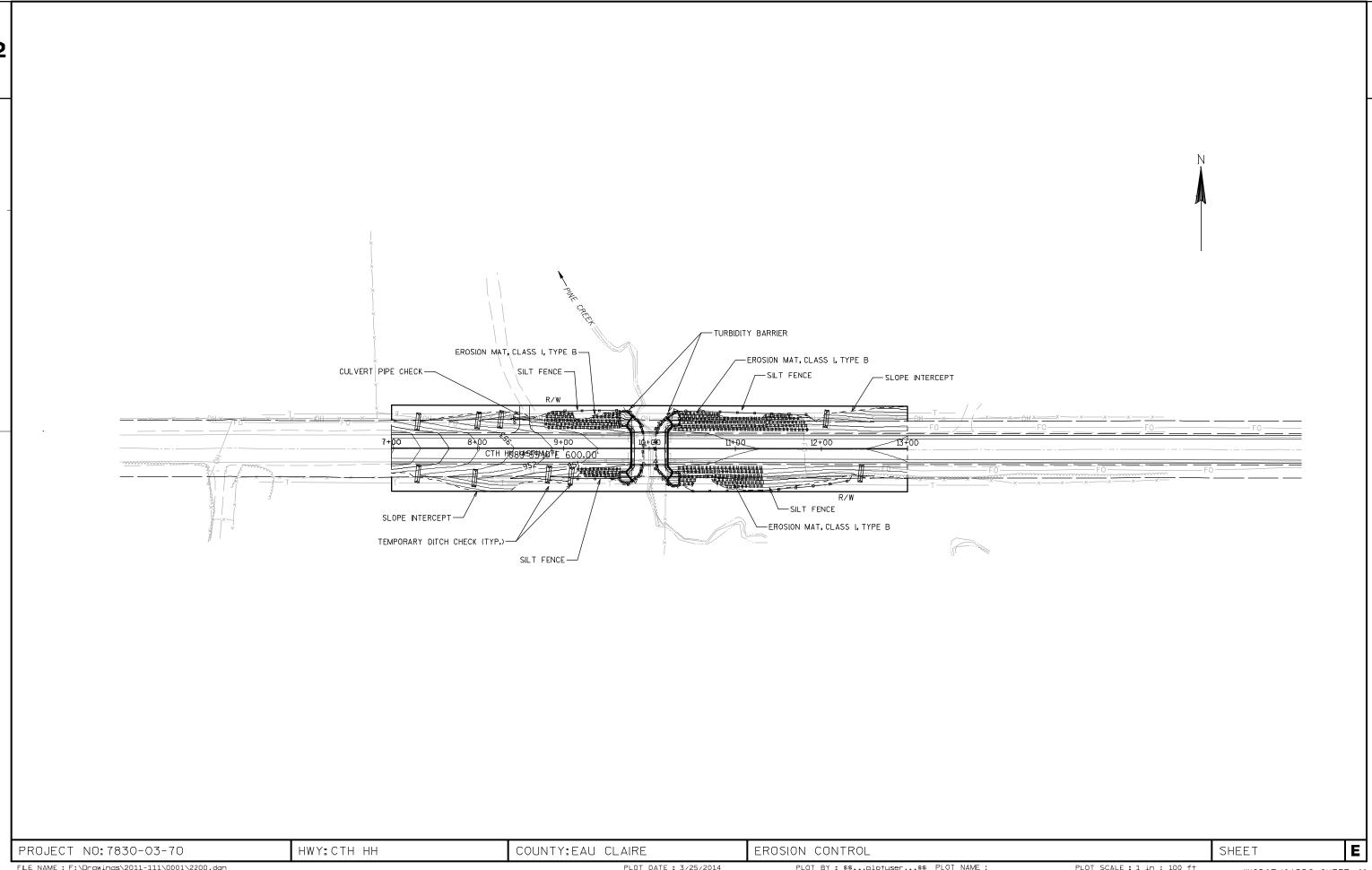


PROFILE VIEW

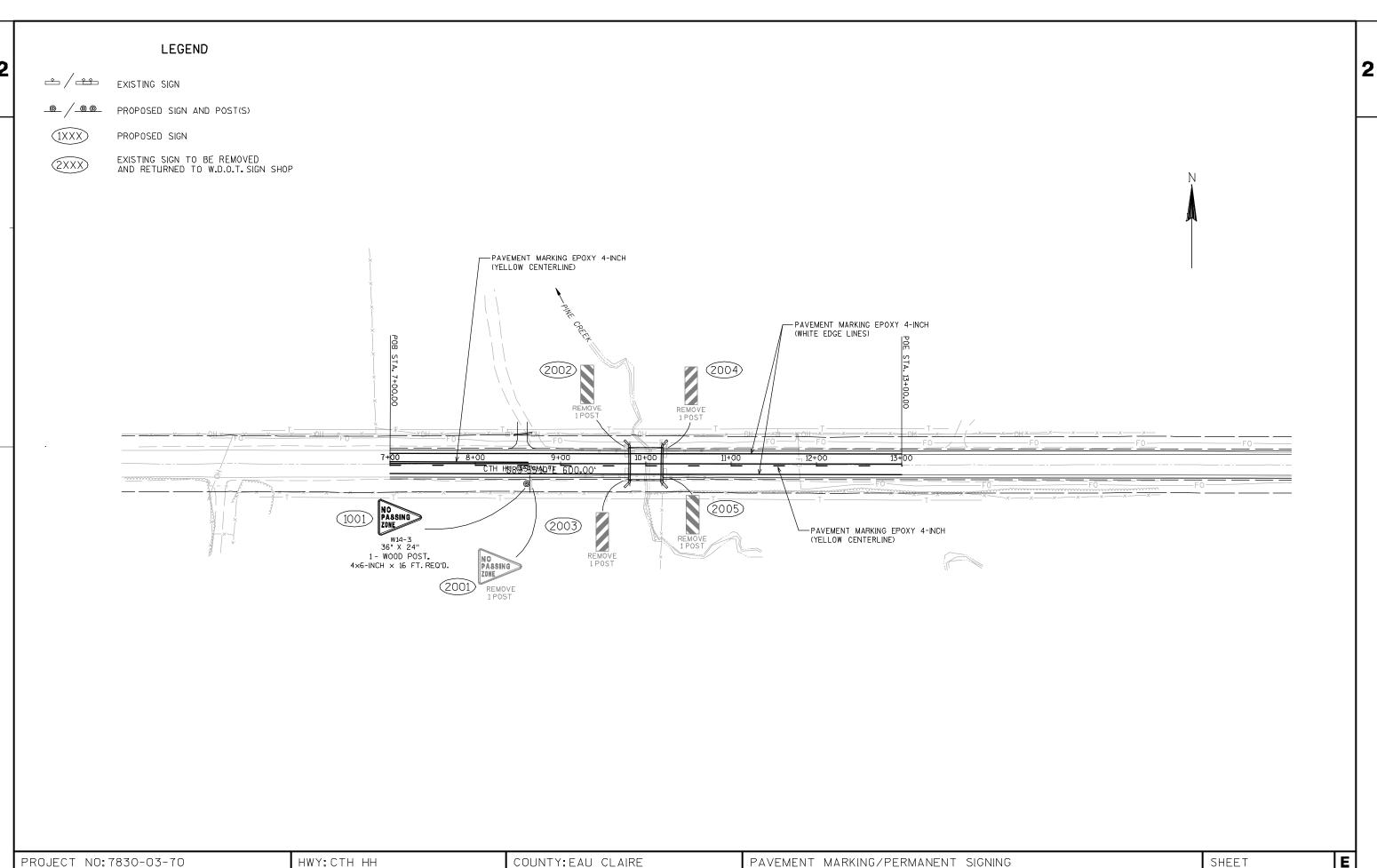
RURAL DRIVEWAY DETAIL

PROJECT NO:7830-03-70 HWY:CTH HH COUNTY:EAU CLAIRE CONSTRUCTION DETAILS

FILE NAME: F:\Drawings\2011-111\0001\2101.dgn PLOT BY: \$\$...plotuser...\$\$ PLOT NAME: PLOT SCALE: NOT TO SCALE WISDOT/CADDS SHEET 42



FILE NAME: F:\Drawings\2011-111\0001\2200.dgn PLOT DATE: 3/25/2014 PLOT BY: \$\$...plotuser...\$\$ PLOT NAME: PLOT SCALE : 1 in : 100 ft WISDOT/CADDS SHEET 42

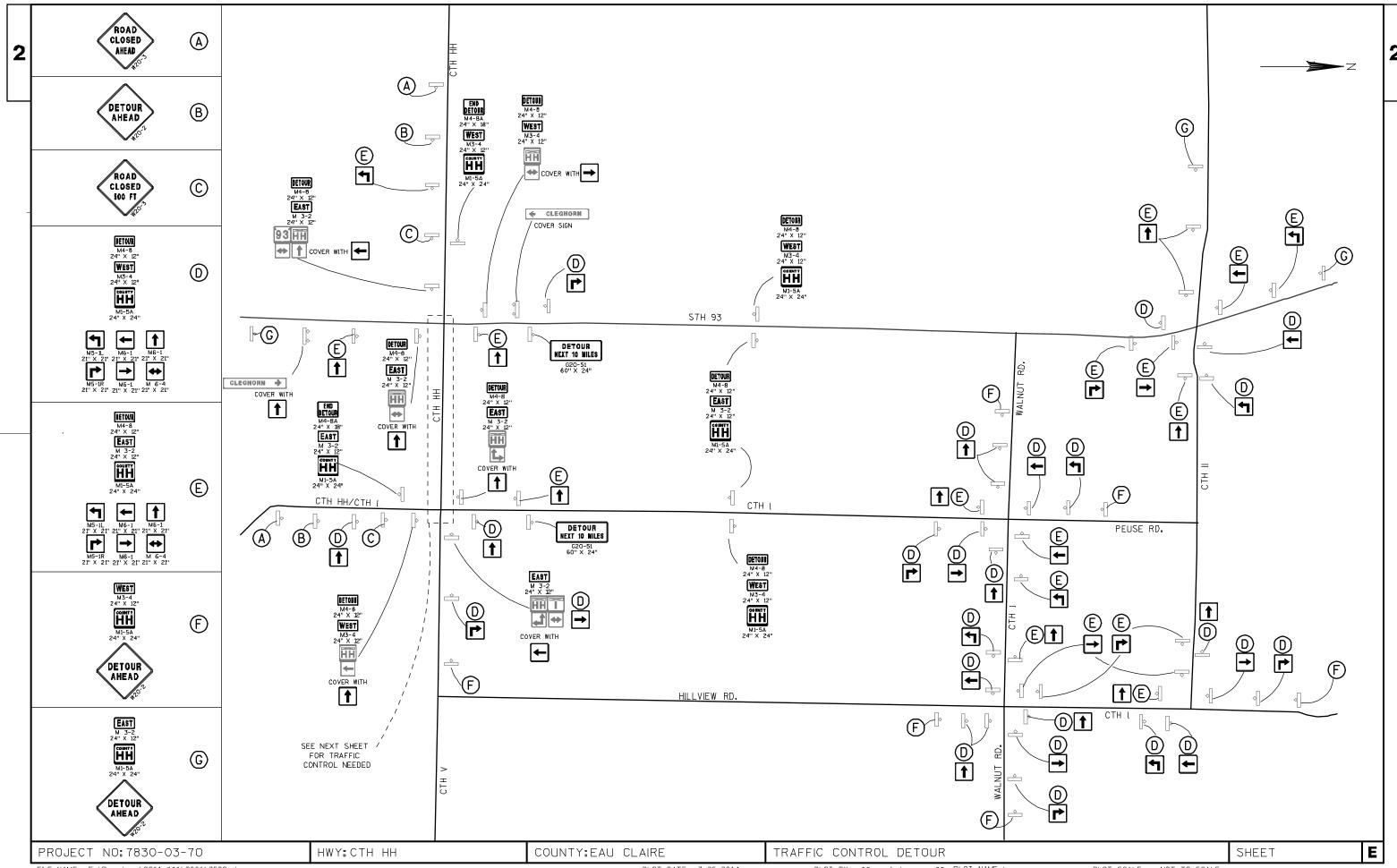


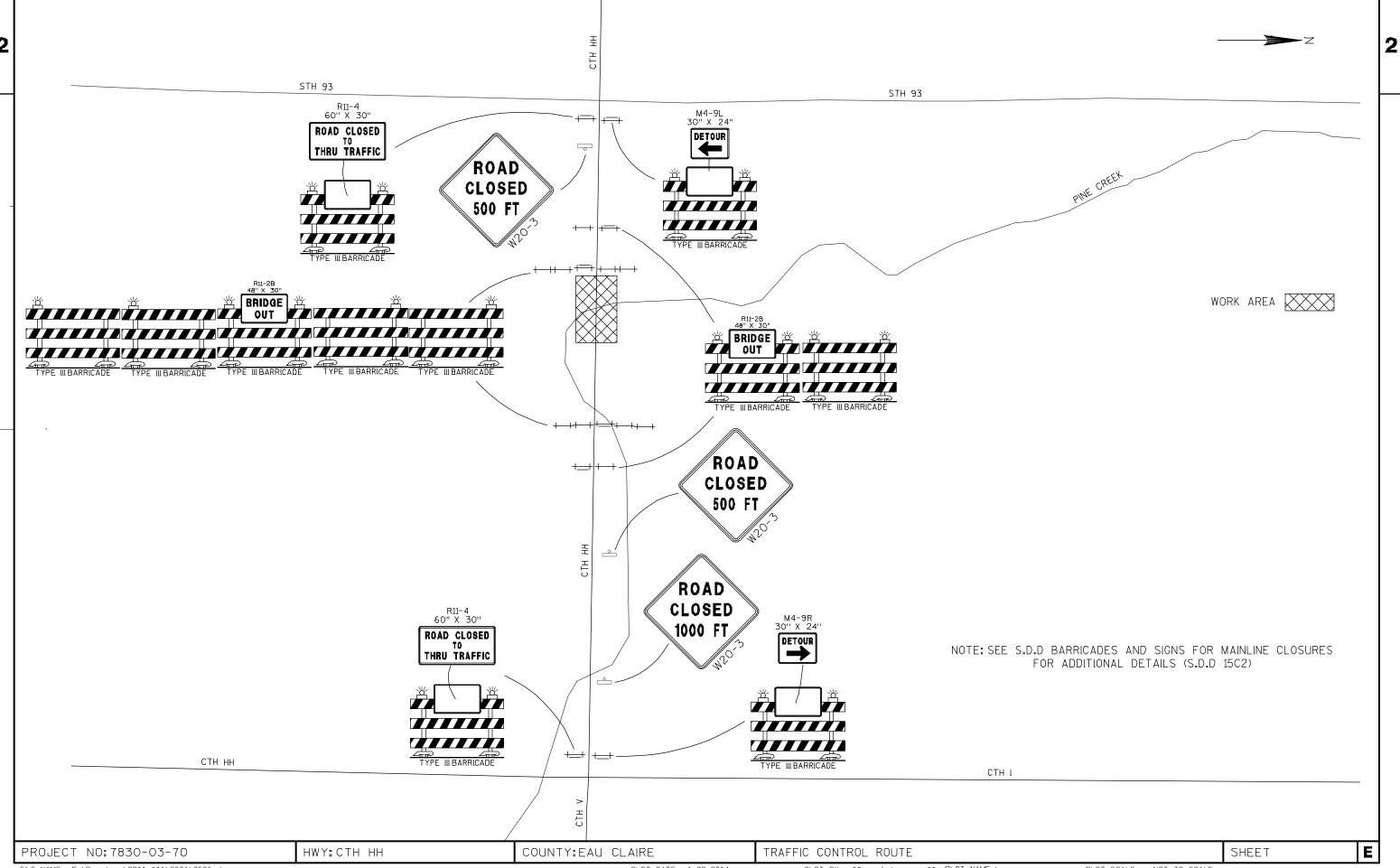
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PLOT DATE : 1/28/2014

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: 1 in: 100 ft





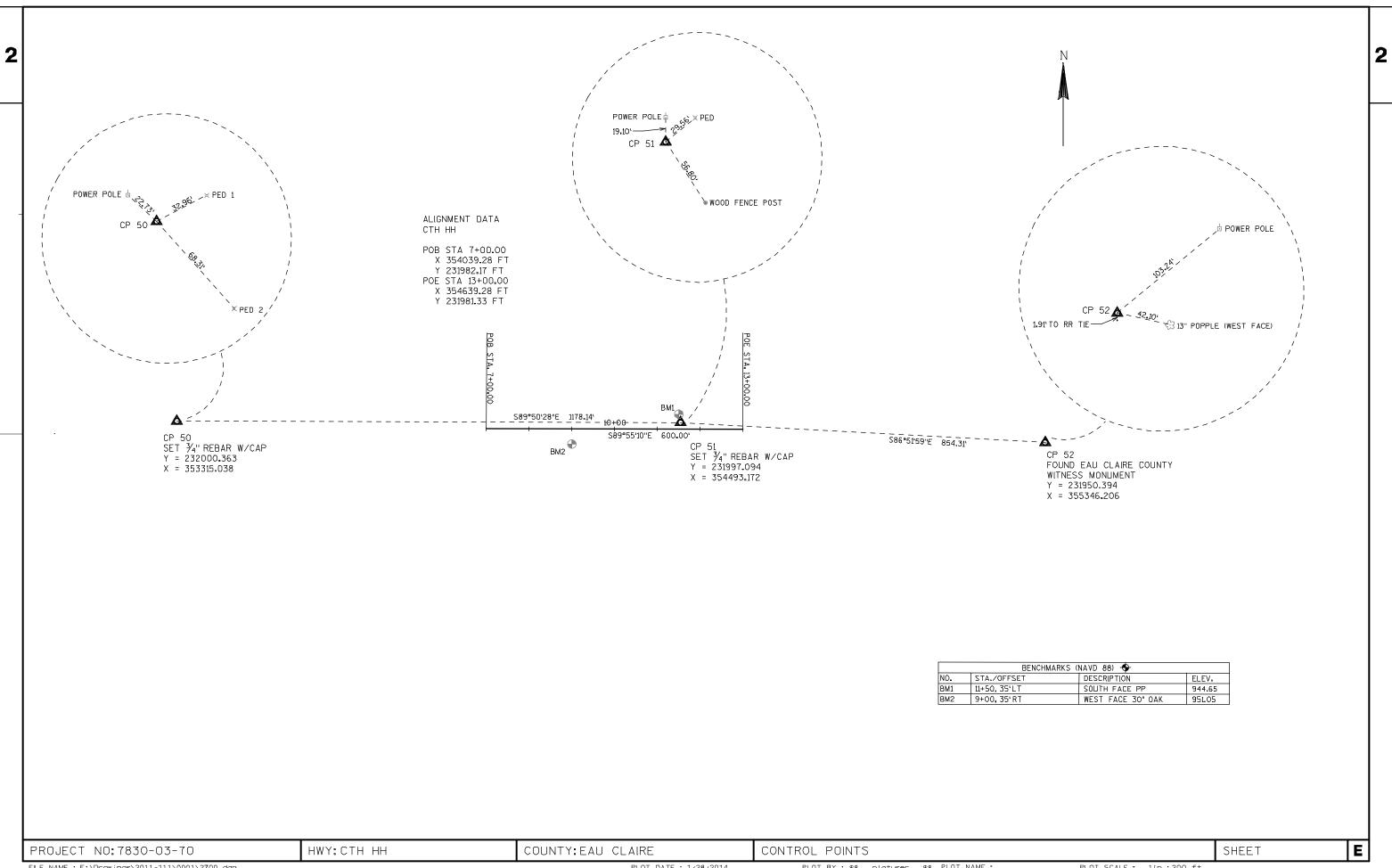
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PLOT DATE : 1/28/2014

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: NOT TO SCALE

WISDOT/CADDS SHEET 42



DATE 04	APR14	E S	TIMATE	E O F Q U A N	
LI NE NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	7830-03-70 QUANTI TY
0010	201. 0105	CLEARI NG	STA	2. 000	2.000
0020	201. 0205	GRUBBI NG	STA	2.000	2.000
0030		S REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS (STATION) 01. 10+00	LS	1.000	1. 000
0040	204. 0170	REMOVING FENCE	LF	1, 040. 000	1, 040. 000
0050	205. 0100	EXCAVATION COMMON **P**	CY	663. 000	663. 000
0060	206. 1000	EXCAVATION FOR STRUCTURES BRIDGES (STRUCTURE) 01. B-18-0223	LS	1.000	1. 000
0070	208. 0100	BORROW	CY	581. 000	581.000
0800	210. 0100	BACKFILL STRUCTURE	CY	200.000	200.000
0090	213. 0100	FINISHING ROADWAY (PROJECT) 01.	EACH	1. 000	1. 000
0100	305. 0110	7830-03-70 BASE AGGREGATE DENSE 3/4-INCH	TON	50.000	50.000
0110	305. 0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	1, 750. 000	1, 750. 000
0120	455. 0105	ASPHALTI C MATERI AL PG58-28	TON	20. 000	20. 000
0130	455.0605	TACK COAT	GAL	50.000	50.000
0140	460. 1100	HMA PAVEMENT TYPE E-0.3	TON	350.000	350.000
0150	460. 2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	230. 000	230. 000
0160	465. 0115	ASPHALTIC SURFACE DETOURS	TON	100.000	100.000
0170	465. 0315	ASPHALTIC FLUMES	SY	20. 000	20. 000
0180	502. 0100	CONCRETE MASONRY BRIDGES	CY	180. 000	180. 000
0190	502. 3200	PROTECTIVE SURFACE TREATMENT	SY	200. 000	200. 000
0200	505. 0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	5, 300. 000	5, 300. 000
0210	505. 0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	23, 790. 000	23, 790. 000
0220	516. 0500	RUBBERI ZED MEMBRANE WATERPROOFING	SY	22. 000	22. 000
0230	520. 0118	CULVERT PIPE CLASS III 18-INCH	LF	22. 000	22. 000
0240	520. 1018	APRON ENDWALLS FOR CULVERT PIPE 18-INCH	EACH	2. 000	2. 000
0250	550. 1100	PILING STEEL HP 10-INCH X 42 LB	LF	832. 000	832. 000
0260	606. 0300	RI PRAP HEAVY	CY	145. 000	145. 000
0260	612. 0206	PI PE UNDERDRAIN UNPERFORATED 6-INCH	LF	70. 000	70. 000
0270	612. 0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF LF	120. 000	120. 000
0290	614. 0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM	EACH	4. 000	4. 000
52.0		GUARD		1. 000	1. 000
0300	614. 0920	SALVAGED RAIL	LF	340. 000	340. 000
0310	614. 2300	MGS GUARDRAIL 3	LF	200.000	200.000
0320	614. 2500	MGS THRIE BEAM TRANSITION	LF	156. 000	156. 000
0330	614. 2610	MGS GUARDRAIL TERMINAL EAT	EACH	4. 000	4. 000
0340	616. 0100	FENCE WOVEN WIRE (HEIGHT) 01. 4-FT, BARBED	LF	1, 040. 000	1, 040. 000
0350	619. 1000	MOBILIZATION	EACH	1.000	1. 000
0360	625. 0500	SALVAGED TOPSOIL **P**	SY	2, 790. 000	2, 790. 000
0370	627. 0200	MULCHI NG **P**	SY	2, 480. 000	2, 480. 000
0380	628. 1504	SILT FENCE	LF	610.000	610.000
0390	628. 1520	SILT FENCE MAINTENANCE	LF	610. 000	610.000
0400	628. 1905	MOBILIZATIONS EROSION CONTROL	EACH	3. 000	3. 000
0410	628. 1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	2. 000	2. 000
0420	628. 2004	EROSION MAT CLASS I TYPE B	SY	1, 000. 000	1, 000. 000
0430	628. 6005	TURBI DI TY BARRI ERS	SY	150.000	150. 000
0440	628. 7504	TEMPORARY DITCH CHECKS	LF	165. 000	165. 000
0450	628. 7555	CULVERT PIPE CHECKS	EACH	3. 000	3. 000
0460	629. 0210	FERTILIZER TYPE B **P**	CWT	1. 700	1. 700
0470	630. 0120	SEEDING MIXTURE NO. 20 **P**	LB	55.000	55.000
0480	634. 0616	POSTS WOOD 4X6-INCH X 16-FT	EACH	1. 000	1. 000
0490	637. 2230	SIGNS TYPE II REFLECTIVE F	SF	6. 000	6. 000

DATE 04	APR14	EST	IMAT	E O F Q U A N	
LI NE NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	7830-03-70 QUANTI TY
0500	638. 2602	REMOVING SIGNS TYPE II	EACH	5. 000	5. 000
0510	638. 3000	REMOVING SMALL SIGN SUPPORTS	EACH	5. 000	5. 000
0520	642. 5001	FIELD OFFICE TYPE B	EACH	1.000	1.000
0530	643.0100	TRAFFIC CONTROL (PROJECT) 01. 7830-03-70	EACH	1.000	1.000
0540	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	1, 080. 000	1, 080. 000
0550	643. 0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	1, 680. 000	1, 680. 000
0560	643. 0900	TRAFFIC CONTROL SIGNS	DAY	660.000	660.000
0570	643. 0920	TRAFFIC CONTROL COVERING SIGNS TYPE II	EACH	1. 000	1. 000
0580	643. 2000	TRAFFIC CONTROL DETOUR (PROJECT) 01. 7830-03-70	EACH	1. 000	1. 000
0590	643. 3000	TRAFFIC CONTROL DETOUR SIGNS	DAY	14, 640. 000	14, 640. 000
0600	645. 0120	GEOTEXTILE FABRIC TYPE HR	SY	300.000	300. 000
0610	646. 0106	PAVEMENT MARKING EPOXY 4-INCH	LF	1, 550. 000	1, 550. 000
0620	648. 0100	LOCATING NO-PASSING ZONES	MI	0. 100	0. 100
0630	650. 4500	CONSTRUCTION STAKING SUBGRADE	LF	600.000	600.000
0640	650. 5000	CONSTRUCTION STAKING BASE	LF	600.000	600.000
0650	650. 6500	CONSTRUCTION STAKING STRUCTURE LAYOUT	LS	1. 000	1.000
		(STRUCTURE) 01. B-18-223			
0660	650. 9910	CONSTRUCTION STAKING SUPPLEMENTAL	LS	1. 000	1.000
		CONTROL (PROJECT) 01. 7830-03-70			
0670	650. 9920	CONSTRUCTION STAKING SLOPE STAKES	LF	600.000	600.000
0880	690. 0150	SAWING ASPHALT	LF	62. 000	62.000
0690	715. 0502	INCENTIVE STRENGTH CONCRETE STRUCTURES	DOL	1, 080. 000	1, 080. 000
0700	ASP. 1TOA	ON-THE-JOB TRAINING APPRENTICE AT \$5. OO/HR	HRS	1, 200. 000	1, 200. 000
0710	ASP. 1T0G	ON-THE-JOB TRAINING GRADUATE AT \$5.00/HR	HRS	300.000	300.000

CLEARING	201.0105		
STATION TO STATION	LOCATION	STA.	CATEGORY
9+00 TO 11+00	RT	2	010
JTEM TOTAL		2	

			201.0205			
	STATION	TÓ	STATION	LOCATION	STA.	CATEGORY
t	9+0	0 TO 1	1+00	RT	2	010
ŀ	ITEM TOTAL				2	

		204.0170			
STATION	ТО	STATION	LOCATION	L.F.	CATEGORY
7+00	TO 1	3+00	RT	600	010
7+00	TO 8	3+55	LT	160	010
8+75	TO 9	3+70	LT	95	010
10+15	TO 1	2+00	LT	185	010
ITEM TOTAL				1040	

FINISHING ROADWAY	213.0100		
STATION TO STATION	LOCATION	EACH	CATEGORY
7+00 TO 13+00	MAINLINE	1	010
ITEM TOTAL		1	

BA	SE AG	305.0110					
STATION	TO	STATION	LOCATION	TON	CATEGORY		
7+00	TO	9+80	SHOULDERS	25	010		
10+20	TQ	13+00	SHOULDERS	25	010		
ITEM TOTAL	ITEM TOTAL 50						

BAS	E AGO	305-0120				
STATION	ТО	STATION	LOCATION	TON	CATEGORY	
7+00	TO	9+80	MAINLINE	875	010	
10+20	TO	13+00	MAINLINE	875	010	
JTEM TOTAL 1750						

ASPHALTIC MATERIAL	455.0105		
STATION TO STATION	LOCATION	TON	CATEGORY
7+00 T0 9+80	MAINLINE	10	010
10+20 T0 13+00	MAINLINE	10	010
			010
ITEM TOTAL		20	

	455.0605			
STATION TO	NOITATE C	LOCATION	GAL.	CATEGORY
7+00 T0	9+80	MAINLINE	25	010
10+20 T	13+00	MAINLINE	25	010
ITEM TOTAL			50	

HMA PAVEMENT T	460,1100		
STATION TO STATION	LOCATION	TON	CATEGORY
7+00 T0 9+80	MAINLINE	175	010
10+20 T0 13+00	MAINLINE	175	
			010
ITEM TOTAL	350		

ASPHALTIC SURFAC	465.0115		
STATION TO STATION	LOCATION	S.Y.	CATEGORY
DETOUR ROUTE	UNDISTRIBUTED	100	010
ITEM TOTAL			

ASPHALTIC FL	465.0315		
STATION TO STATION	LOCATION	S.Y.	CATEGORY
9+70	LT & RT	10	010
10+30	LT& RT	10	010
ITEM TOTAL			

DIVISION	FROM/TO STATION L	LOCATION	COMMON E.			AVAILABLE	UNEXPANDED	EXPANDED MASS ORDINATE	BORROW		
			CUT (2)	EBS EXCAVATION (3)		MATERIAL (5)	FILL	FACTOR 1 <u>-</u> 25	+/-	(ITEM 208.0100)	
		7+00 TO 9+79	MAINLINE	313	0	45	268	463	579	-311	
	2	10+21 TO 13+00	MAINLINE	350	0	57	293	450	563	-270	
GRAND .	TOTAL		GRAND TOTAL	663	0	102	561	913	1141	-581	581
	TOTAL COMMON EXC 663 CY										

	CULVERT PIPE CLASS III 18	I-INCH	520.0118	
	STATION TO STATION	LOCATION	LENGTH L.F.	CATEGORY
*	8+30	F.E. LT	22	010
	ITEM TOTAL		22	

^{*} MATERIAL THICKNESS: STEEL 0.064 INCHES, ALUM. 0.060 INCHES

APRON	520,1018				
STATION	TO	STATION	LOCATION	EACH	CATEGORY
8+30			F.E. LT	2	010
ITEM TOTAL 2					

SALVAGED F			
STATION TO STATION	LOCATION	L.F.	CATEGORY
9+15 TO 10+85	LT	170	010
9+11 TO 10+81	RT	170	010
ITEM TOTAL		340	

MGS GUARDRAIL 3			614.2300	
STATION TO	NOLTATS C	LOCATION	L.F.	CATEGORY
8+69 TO	9+44	RT	75.0	010
9+19 T(9+44	LT	25.0	010
10+56 TO	D 10+81	RT	75.0	010
10+56 TO	0 11+31	LT	25.0	010
ITEM TOTAL	ITEM TOTAL 200			

MGS THRIE BEAM TRANSITION 614.2500				
STATION TO STATION	LOCATION	L.F.	CATEGORY	
9+44 TO 9+83	RT	39	010	
9+44 TO 9+83	LT	39	010	
10+17 TO 10+56	RT	39	010	
10+17 TO 10+56	LT	39	010	
ITEM TOTAL 156				

MG:	614.2610			
STATION	TO STATION	LOCATION	EACH	CATEGOR
8+16	TO 8+69	RT	1	010
8+66	TO 9+19	LT	1	010
10+81	TO 11+34	RT	1	010
11+31	TO 11+84	LT	1	010
ITEM TOTAL			4	

2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.

3) EBS EXCAVATION TO BE BACKFILLED WITH SELECT BORROW MATERIAL. Note: this is designers choice, can be backfilled with borrow, or cut as well.

4) SALVAGED/UNUSABLE PAVEMENT MATERIAL

5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL

13) EXPANDED FILL. FACTOR = 1.25

14) 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.

PROJECT NO: 7830-03-70

HWY: CTH HH

COUNTY: EAU CLAIRE

MISCELLANEOUS QUANTITIES

SHEET

E

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME: PLOT

FENCE WOVEN WIRE (HEIGHT)			
STATION TO STATION	LOCATION	L.F.	CATEGORY
7+00 TO 13+00	RT	600	010
7+00 TO 8+55	LT	160	010
8+75 TO 9+70	LT	95	010
10+15 TO 12+00	LT	185	010
JTEM TOTAL			

MOBILIZATION			619.1000		
STATION	TO	STATION	LOCATION	EACH	CATEGORY
7+00 TO 13+00			MAINLINE	0.4	010
10+00			B-18-0223	0.6	020
JTEM TOTAL 1.0					

SALVAGED TOPSOIL	625.0500		
STATION TO STATION	LOCATION	S.Y.	CATEGORY
7+00 TO 9+80	LT & RT	1300	010
10+20 TO 13+00	LT & RT	1490	010
ITEM TOTAL		2790	

MULCHING **	627.0200		
STATION TO STATION	LOCATION	S.Y.	CATEGORY
7+00 TO 9+80	LT & RT	1300	010
10+20 TO 13+00	LT & RT	1180	010
ITEM TOTAL		2480	

SILT FENCE 628.1504					
STATION TO STATION	LOCATION	L.F.	CATEGORY		
8+80 TO 9+70	EAT, LT	100	010		
9+15 TO 9+70	EAT, RT	60	010		
10+25 TO 12+15	EAT, LT	170	010		
10+25 TO 12+40	EAT, RT	200	010		
UNDISTRIBUTED		80	010		
			010		
ITEM TOTAL		610			

SILT FENCE MAINTENANCE 628.1520			
STATION TO STATION	LOCATION	L.F.	CATEGORY
8+80 TO 9+70	EAT, LT	100	010
9+15 TO 9+70	EAT, RT	60	010
10+25 TO 12+15	EAT, LT	170	
10+25 TO 12+40	EAT, RT	200	010
UNDISTRIBLITED		80	010
ITEM TOTAL		610	

MOBILIZATIONS EROSI			
STATION TO STATION	CATEGORY		
7+00 TO 13+00	PROJECT	3	010
ITEM TOTAL			

MOBILIZATIONS EMERGENCY	EROSION CONTROL	628.1910	
STATION TO STATION	LOCATION	EACH	CATEGORY
7+00 TO 13+00	PROJECT	2	010
ITEM TOTAL		2	

EROSION MAT CLASS ITYPE B 628.2004				
STATION TO STA	TION LOCA	NOITA	S.Y.	CATEGORY
8+80 TO 9+65	L	Т	190	010
9+15 TO 9+65	F	:T	65	010
10+30 TO 11+30	L	T	275	010
10+30 TO 11+80	R	T.	325	010
UNDISTRIBUTED			145	010
ITEM TOTAL			1000	

TURBIDITY BAR	TURBIDITY BARRIERS				
STATION TO STATION	LOCATION	S.Y.	CATEGORY		
9+80 TO 10+20	ABUTMENT SLOPES	150	010		
ITEM TOTAL		150			

	TEMP	628.7504			
STATION	TO	STATION	LOCATION	L.F.	CATEGORY
7+00 TO 8+50			DITCH LT	75	010
7+00 TO 9+80			DITCH RT	60	010
UNDISTRIBUTED				30	010
ITEM TOTAL 165					

CULVERT PIPE CHECKS			628.7555		
STATION TO STATION			LOCATION	EACH	CATEGORY
	8+30		PE LT	5	010
ITEM TOTAL	-			5	

FERTILIZER, TYPE B **p** 629.0210				
STATION TO STATION	LOCATION	CWT.	CATEGORY	
7+00 TO 9+80	LT & RT	0.800	010	
10+20 TO 13+00	LT & RT	0.700	010	
UNDISTRIBUTED	LT & RT	0.200	010	
ITEM TOTAL				

CATEGOR
010
010
010

PROJECT NO: 7830-03-70

HWY: CTH HH

COUNTY: EAU CLAIRE

MISCELLANEOUS QUANTITIES

SHEET

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME: PLOT SCALE : 1 in : 100 ft Ε

FIELD OFFICE TYPE B			642.5001		
STATION TO STATION LOCATION			LOCATION	EACH	CATEGORY
7+00 TO 13+00			PROJECT	1	010
JTEM TOTAL				1	

TRAFFIC CONTROL			
STATION TO STATION	LOCATION	EACH	CATEGORY
7+00 TO 13+00	PROJECT	1	010
ITEM TOTAL		1	

TRAFFIC CONTROL BARRICADES TYPE III 643.0420						
STATION TO STATION LOCATION EACH DAYS DAYS						
SEE TRAFFIC CONTROL PLAN		18	60	1080	010	
ITEM TOTAL 1080						

TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705							
STATION TO STATION	LOCATION	EACH	DAYS	DAYS	CATEGORY		
SEE TRAFFIC CONTROL PLAN		28	60	1680	010		
ITEM TOTAL	TEM TOTAL 1680						

TRAFFIC CONTROL SIGNS TYPE II 643.0900							
STATION TO STA	ION LOCATION	EACH	DAYS	DAYS	CATEGORY		
7+00 TO 13+00	MAINLINE	11	60	660	010		
ITEM TOTAL				660			

TRAFFIC CO	ONTROL COVERIN	NG SIGNS TYPE II	643.0920	
STATION TO	O STATION	LOCATION	EACH	CATEGORY
SEE TRAFFIC C	CONTROL PLAN		1	010
ITEM TOTAL			1	

	TRAFFIC CONTROL DETO	643.2000		
	STATION TO STATION	LOCATION	EACH	CATEGORY
Ī	SEE TRAFFIC CONTROL PLAN	DETOUR ROUTE	1	010
ŀ	JTEM TOTAL		1	

TRAFFIC CONTROL DETOUR SIGNS 643.3000						
STATION TO STATION	LOCATION	EACH	DAYS	DAYS	CATEGORY	
SEE TRAFFIC CONTROL PLAN	DETOUR ROUTE	244	60	14640	010	
ITEM TOTAL 14640						

PAVEMENT MARKING E			
STATION TO STATION	LOCATION	L.F.	CATEGORY
7+00 TO 13+00	MAINLINE	1550	010
		1000	
JTEM TOTAL		1550	

LOCATING NO-PASSING ZONES				648.0100	
STATION	TO	STATION	LOCATION	Ml	CATEGORY
7+00	TO	13+00	MAINLINE C/L	0.1	010
	10	13+00	MAINLINE C/L	0.1	010
ITEM TOTAL				0.1	

CONSTRUCTION STAKING SUBGRADE 650.4500				
STATION TO STATION	LOCATION	L.F.	CATEGORY	
7+00 TO 13+00	MAINLINE	600	010	
ITEM TOTAL		600		

CONSTRUCTION STAKING BASE 650.					
STATION	TO	STATION	LOCATION	L.F.	CATEGORY
7+0	0 TO 1	3+00	MAINLINE	600	010
ITEM TOTAL				600	

CONSTRUCTION STRUCTURE LAYOUT	650.6500		
STATION TO STATION	LOCATION	EACH	CATEGORY
10+00	MAINLINE	1	020
ITEM TOTAL			

CONSTRUCTION : SUPPLEMENTAL CONTRO	650.9910		
STATION TO STATION	LOCATION	L.S.	CATEGORY
7+00 T0 13+00	MAINLINE	1	010
ITEM TOTAL		1	

CONSTRUCTION STAKING SLOPE STAKES 650,9920								
STATION TO ST	FATION	LOCATION	L.F.	CATEGORY				
7+00 TO 13+00	0	MAINLINE	600	010				
ITEM TOTAL			600					

SAWING A	690.0150							
STATION TO STATION	LOCATION	L.F.	CATEGOR					
7+00	MAINLINE	32	010					
13+00	MAINLINE	30	010					
ITEM TOTAL	ITEM TOTAL 62							

PROJECT NO: 7830-03-70

HWY:CTH HH

COUNTY: EAU CLAIRE

MISCELLANEOUS QUANTITIES

SHEET

PLOT DATE: 3/25/2014 PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

							637.2230	634.0616	638.2602	638.3000
							SIGNS,	WOOD POSTS,	REMOVING SIGNS	REMOVING SMALL
SIGN			SIGN	SIGN	WJDTH	HEIGHT	TYPE II,	4X6-INCH X 16 FT	TYPE II	SIGN SUPPORTS
NUMBER	STATION	LOCATION	CODE	DESCRIPTION	(INCHES)	(INCHES)	REFLECTIVE F	(EACH)	(EACH)	(EACH)
							(S.F.)			
1001	8+60	RT	W14-3	NO PASSING ZONE	36	24	6.00	1		
2001	8+60	RT	W14-3	NO PASSING ZONE					1	1
2002	9+80	LT	W5-52R	CLEARANCE STRIPER DOWN RIGHT					1	1
2003	9+80	RT	W5-52L	CLEARANCE STRIPER DOWN LEFT					1	1
2004	10+20	LT	W5-52R	CLEARANCE STRIPER DOWN RIGHT					1	1
2005	10+20	RT	W5-52L	CLEARANCE STRIPER DOWN LEFT					1	1
	SUB-TOTAL						6.00	1	5	5

PROJECT NO: 7830-03-70

HWY: CTH HH

COUNTY: EAU CLAIRE

MISCELLANEOUS QUANTITIES

SHEET

FILE NAME : F:\Drawings\2011-111\0001\3003.dgn

PLOT DATE : 1/29/2014

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

Ε

CONVENTIONAL SYMBOLS AND ABBREVIATIONS STATE, COUNTY, ACCESS RIGHTS ECTION LINE MRES JUARTER, LINE AND OTHERS ET.AL. SIXTEENTH LINE CENTERLINE PROPOSED REFERENCE LINE DOC. H.E. CERTIFIED SURVEY MAP DOCUMENT HIGHWAY EASEMENT PROPOSED RAW LINE PLEASANT EXISTING H.E. LINE LAND CONTRACT PROPERTY LINE EASEMENT LINE CORPORATE LIMITS MONLMENT Tummin. PROPERTY LINE EXISTING CENTERLINE ----VALLEY PERMANENT LIMITED FASEMENT PLF LOT & TIE LINES ------ITILITIES REFERENCE LINE (BLEPHONE, GAS, BLECTRIC, CABLE IV. EIBER DPTIC) REMAINING RIGHT-OF-WAY TRE HYDRANT NOT TO SCALE SHEET LOCATION PROJECT OVERVIEW ACCESS RESTRICTED ***** SOLVARE FEET SQ.FT. (BY PREVIOUS PROJECT/CONTROL) TEMPORARY LIMITED EASEMENT THE un unness DETERMENT (BY ACQUISTION) VOLUME CURVE DATA NO ACCESS ******** LONG CHORD BEARING (BY STATUTORY AUTHORITY RADIUS DEGREE OF CURVE CENTRAL ANGLE OR DELTA LENGTH OF CURVE TANGENT FEE (HATCH VARIES) WZZZZ TEMPORARY LIMITED LOCAL SI PERMANENT LIMITED & ACAI R/W BOUNDARY POINT TOWN POMER POLE TELEPHONE POLE PLE/TLE POINT 60000 Ø TELEPHONE PEDESTAL PARCEL NUMBER GUY POLE 0 SIGN NUMBER SECTION CORNER MONUMENT @ BUILDING SIXTEENTH LINE COUND IRON PIPE/PIN & SIZE & TIPE NOTEDO SW-SW R/W MONUMENT R/W STANDARD SEC 35 (40001 ALIGNMENT TIES: (40000) 1001 TO STA 3+00.00 = 939.39', S89°16'49"E 90000 1005 TO STA 18+50.00 = 159.91', S89°06'02"W EXIST R/W SECTION LINE 6+00 S89°55'59"E 1339.33' EXIST R/W (41000 41001 725H NW-NW FOUND BRASS CAPPED

SEC 2

TRANSPORTATION PROJECT PLAT NO: 7830-03-00 - 4.01

THAT PART OF THE SE $^1/_4$ -SW $^1/_4$ OF SECTION 35 IN T-26-N, R-9-W AND THAT PART OF THE NE $^1/_4$ -NW $^1/_4$ OF SECTION 2 IN T-25-N, R-9-W ALL IN THE TOWN OF PLEASANT VALLEY, EAU CLAIRE COUNTY, WISCONSIN

PROJECT DESCRIPTION: CTH HH, STH 37 TO CTH R ROAD, EAU CLAIRE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE EAU CLAIRE COUNTY HIGHWAY DEPARTMENT DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, MISCONSIN STATUTES, EAU CLAIRE COUNTY HIGHWAY DEPARTMENT THE NAME OF EAU CLAIRE COUNTY, PURSUANT TO THE PROVISIONS OF SECTION 84.09 ID OR (2) WISCONSIN STATUTES.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS ____ COUNTY, WISCONSIN AT __:__ _M ON ___ AS DOCUMENT * SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS PROJECT NUMBER 7830-03-00-4,01 AMENDMENT NO:

EAU CLAIRE ENERGY COOPERATIVE CENTURYLINK 50 SE-SW SEC 35 DOC. 639092 SLOPE INTERCEPT OF (40002 40003 EXIST R/W 8+00 11+00 12+00 14+00 S89°55'10"E 1550.00 CTH HH S89°55'59"E 709.52 EXIST R/W 41003 SLOPE INTERCEPT-DOC. 492485 NE-NW SEC 2

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COCRDINATES, EAU CLAIRE COUNTY, NADB3 (2007) IN US SURVEY FEET, VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES, GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

CONCRETE MONUMENT

X = 352699.97

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 3/4" X 24" REBAR WITH A PLASTIC CAP) 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 SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

THE POINT OF INTERSECTIONS DESIGNATED WITH A 90000 SERIES NUMBER HAVE BEEN CREATED FOR THE PURPOSE OF SHOWING A CLOSED TRAVERSE. THE POINTS ARE INTENDED TO BE ON THE RIGHT-OF-WAY LINES BUT NOT NECESSARILY ON OR ANY PART OF A BOUNDARY, SIXTEENTH, QUARTER OR SECTION (P.L.S.S.) LINE, THESE POINTS WILL NOT BE MONUMENTED IN THE FIELD.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES, THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY ESTABLISHED FROM WISCONSIN STATE STATUTE 82,31 USING EXISTING

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES. FOR CURRENT ACCESS/DRIVEWAY INFORMATION CONTACT THE EAU CLAIRE COUNTY HIGHWAY DEPARTMENT.

	COURSE TABLE	
COURSE	BEARING	DISTANCE
90000-40000	N 00°04'50" E	21.70
40000-40001	N 00°04'50" E	17.50
40001-40002	S 89°55'10" E	600.00
40002-40003	S 00°04'50" #	17.89
40003-90001	S 00°04'50" W	21.18
90001-90000	N 89°55'59" W	600.00

ALIGNMENT DATA

POR STA 3+00.00

Y = 231982.73 X = 353639.28

POE STA 18+50.00 Y = 231980.56 X = 355189.28

COURSE	BEARING	DISTANCE
90000-90001	S 89°55'59" E	600.00
90001-41003	S 00°04'50" W	44.82
41003-41002	S 00°04'50" W	16.11
41002-41001	N 89°55'10" W	600.00
41001-41000	N 00°04'50" E	16.49
41000-90000	N 00°04'50" E	44.30

COLIDEE TABLE

		TOTAL FORM	MULL	
POINT	STATION	OFFSET	NORTHING	EASTING
40000	7+00.00	-32.50	232014.67	354039.33
40001	7+00.00	-50.00	232032.17	354039.35
40002	13+00.00	-50.00	232031.33	354639.35
40003	13+00.00	-32.11	232013.44	354639.33
41000	7+00.00	33.50	231948.66	354039.24
41001	7+00.00	50.00	231932.17	354039.21
41002	13+00.00	50.00	231931.33	354639.21
41003	13+00.00	33.89	231947.44	354639.24

RAW POTNT TARE

UTILITY EASEMENT INFORMATION PARCEL 2 CENTURYTEL OF CENTRAL WISCONSIN, LLC DOC. 795652

UTILITY INTERESTS REQUIRED								
UTILITY NUMBER	OWNERS	INTEREST REQUIRED						
40	EAU CLAIRE ENERGY COOPERATIVE	RELEASE OF RIGHTS						
50	CENTURYLINK.	RELEASE OF RIGHTS						

SC	CHEDULE OF LANDS AND INTERESTS REQUIRED	OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE. PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.							
PARCEL	CHREENE	INTEREST		ED	TLE ACRES				
NUMBER	OWNERS	REQUIRED	NEW	EXISTING H.E.	TOTAL	REQUIRED			
-1	EDWARD W. AND NANCY A. HINK	FEE	0,24	0.30	0.54	0.00			
2	LOVELL L. PEDERSON	FEE	0.23	0.61	0.84	0.00			

SCALE, FEET 50 10

Fleming, Andre & Associates, Inc. CONSULTING ENGINEERS 3615 N. Hostings Way • Suite 100 Eau Claire, Wi 54703

MT Mile

35

7251

CONCRETE MONUMENT - 231991.43

X = 355348.82

FOUND BRASS CAPPED

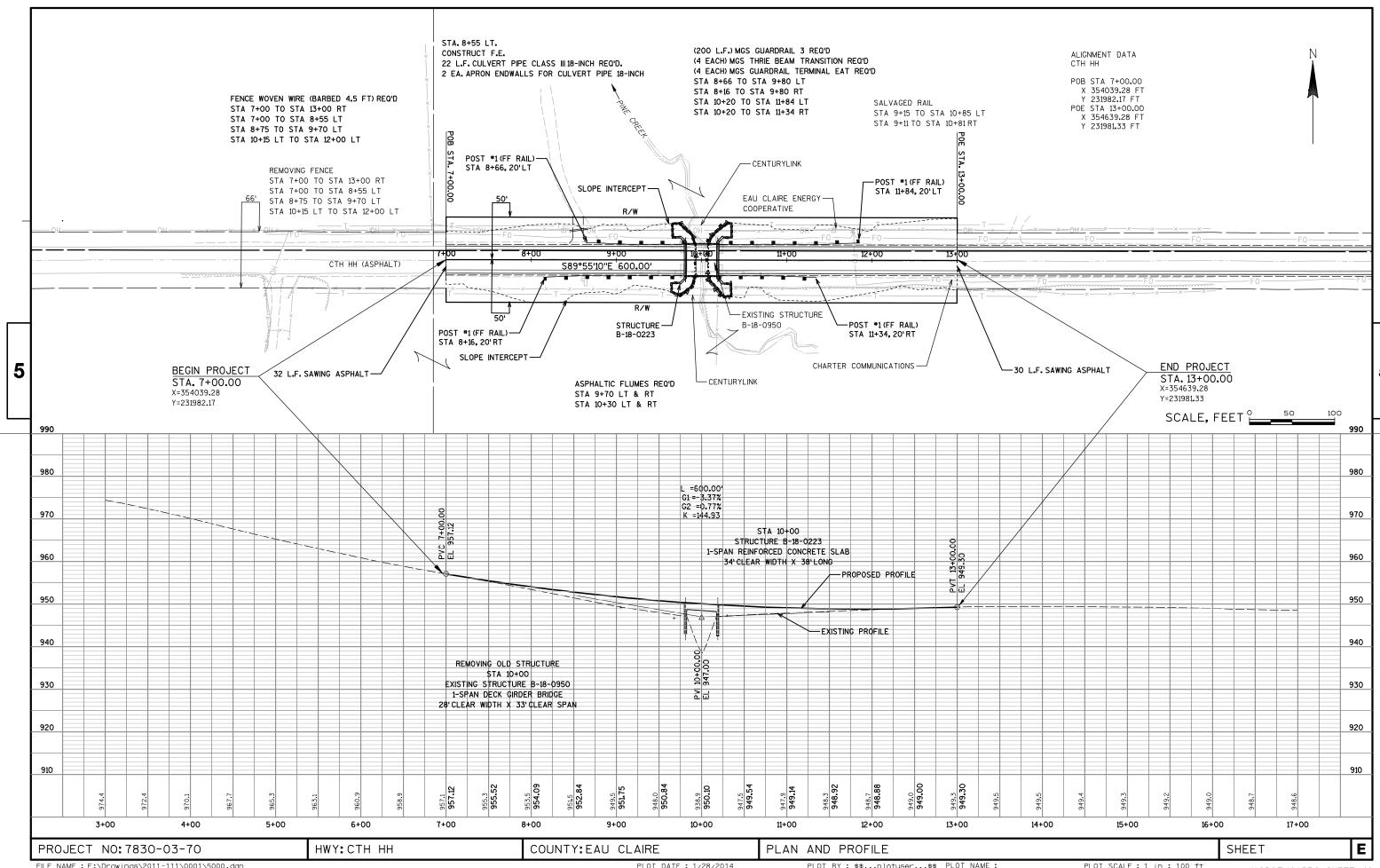
1005

I. JOHN T. MUELLER, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE EAU CLAIRE COUNTY HIGHWAY DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 7830-03-00-4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND. DATE 1/8/2014

PLEASANT VALLEY

JOHN T. MUELLER

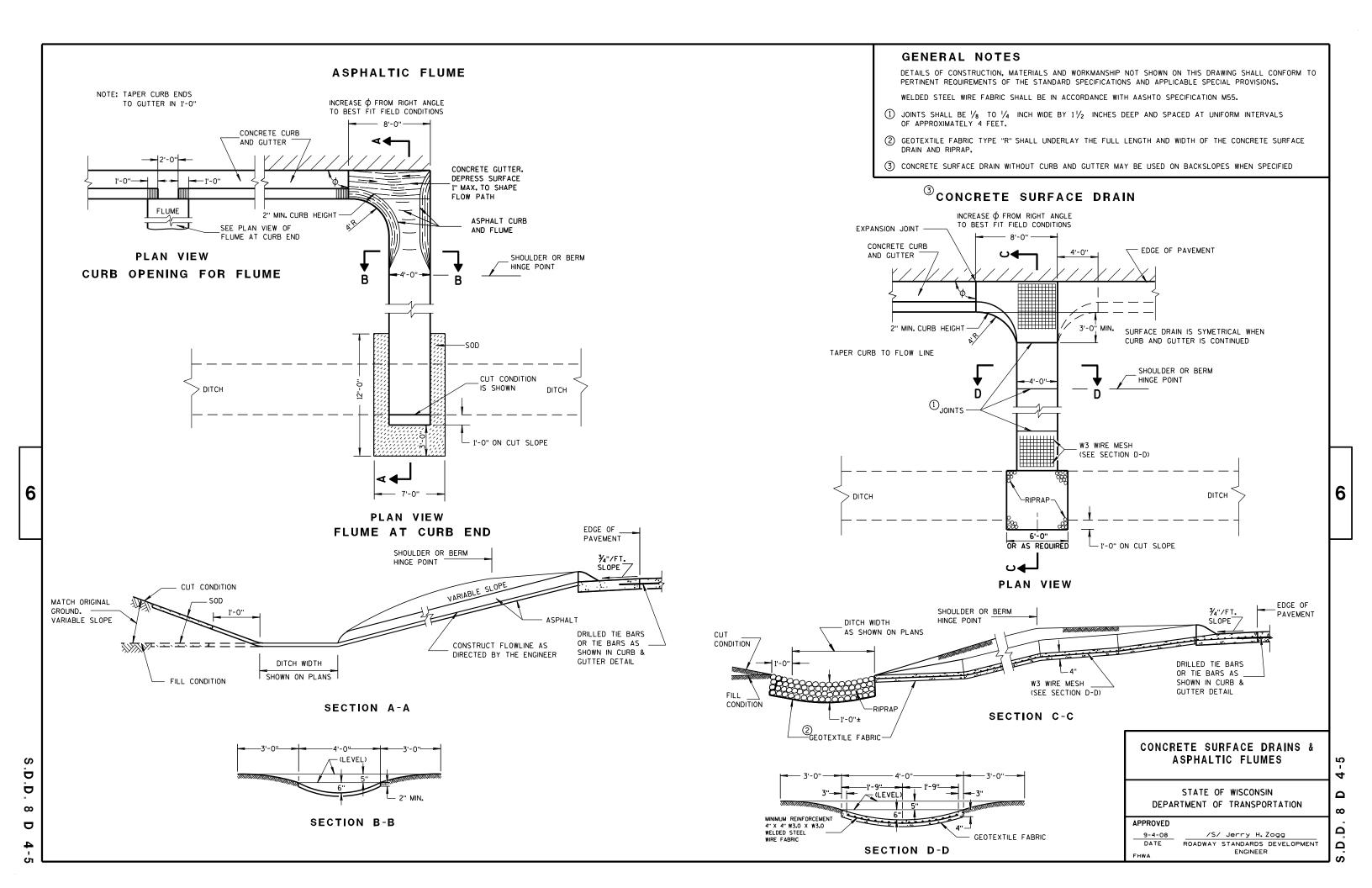
John T. Mueller THIS PLAT AND RELOCATION ORDER IS APPROVED FOR THE EAU CLAIRE COUNTY HIGHWAY DEPARTMENT. DATE /:30:2014_ COMMISSIONER



FILE NAME: F:\Drawings\2011-111\0001\5000.dgn

Standard Detail Drawing List

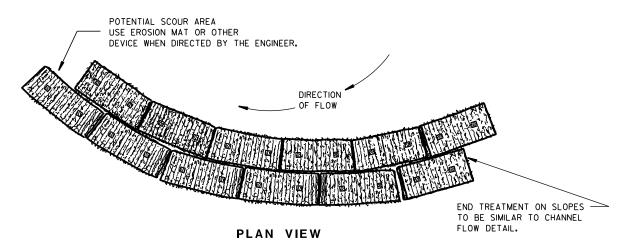
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	
08E11-02	
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
12A03-10	NAME PLATE (STRUCTURES)
14B42-02A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-01A	
14B44-01B	
14B44-01C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-03A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15B01-08A	FENCE WOVEN WIRE
15B01-08B	FENCE WOVEN WIRE
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C06-06	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-16A	PAVEMENT MARKING (MAINLINE)



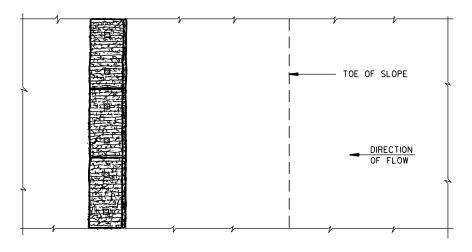
GENERAL NOTES

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

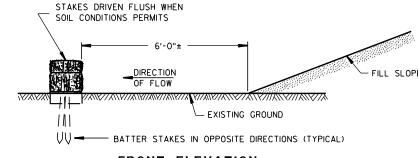
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

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

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

- 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 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

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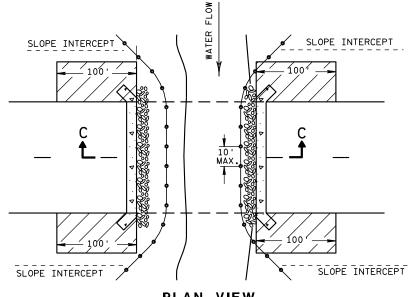
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GENERAL NOTES

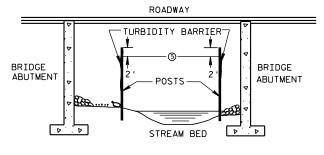
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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 SANDBAGS 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 FT., 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. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK 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

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

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METAL APRON ENDWALLS											
PIPE	PIPE MIN. THICK. DIMENSIONS (Inches)										
DIA.	(Incl		A	В	Н	L	Lį	L ₂	W	APPROX.	BODY
(IN.)	STEEL	ALUM.	(±]")	(MAX.)	(±]")	(±1½")	①	0	(±2")		
12	.064	.060	6	6	6	21	12	171/2	24	21/2+o 1	1Pc.
15	.064	.060	7	8	6	26	14	213/4	30	2½+o 1	1Pc.
18	.064	.060	8	10	6	31	15	281/4	36	2½+o 1	1Pc.
21	.064	.060	9	12	6	36	18	29%	42	21/2+o 1	1Pc.
24	.064	. 075	10	13	6	41	18	371/4	48	$2\frac{1}{2}$ to 1	1Pc.
30	.079	. 075	12	16	8	51	18	521/4	60	$2\frac{1}{2}$ to 1	1Pc.
36	.079	. 105	14	19	9	60	24	59¾	72	$2\frac{1}{2}$ to 1	2 Pc.
42	.109	. 105	16	22	11	69	24	75%	84	$2\frac{1}{2}$ to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 ¹ / ₄ +o 1	3 Pc.
54	.109	. 105	18	30	12	84	30	851/2	102	21/4+0 1	3 Pc.
60	.109×	.105×	18	33	12	87	_		114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	_	_	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	_	_	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	_	_	132	11/2+0 1	3 Pc.
84	.109×		18	45	12	87	_	_	138	1/2+0 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	1/2+0 1	3 Pc.
96	.109×	.105×	18	35	12	87	_		150	11/2+0 1	3 Pc.

* EXCEPT CENTER PANEL

SEE GENERAL NOTES

PLAN VIEW

END VIEW

SIDE ELEVATION

METAL ENDWALLS

SHOULDER

SLOPE

	REINFORCED CONCRETE APRON ENDWALLS										
PIPE		APPROX.									
DIA.	Т	A	В	С	D	E	G	SLOPE			
12	2	4	24	48 1/8	721/8	24	2	3 to 1			
15	21/4	6	27	46	73	30	21/4	3 to 1			
18	21/2	9	27	46	73	36	21/2	3 to 1			
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1			
24	3	91/2	431/2	30	731/2	48	3	3 to 1			
27	31/4	101/2	$49^{1}/_{2}$	24	731/2	54	31/4	3 to 1			
30	$3\frac{1}{2}$	12	54	193⁄4	731/2	60	31/2	3 to 1			
36	4	15	63	34¾	97¾	72	4	3 to 1			
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1			
48	5	24	72	26	98	84	5	3 to 1			
54	51/2		65	* ** 33 ¹ / ₄ -35	* 98 ¹ / ₄ - 100	90	51/2	2% to 1			
60	6	* ** 30-35	60	39	99	96	5	2 to 1			
66	61/2		* ** 72-78	* * * 21-27	99	102	51/2	2 to 1			
72	7	* ** 24-36	78	21	99	108	6	2 to 1			
78	71/2	* ** 24-36	78	21	99	114	61/2	2 to 1			
84	8	36	901/2	21	1111/2	120	61/2	11/2+0 1			
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1			

*MINIMUM

PLAN

END VIEW

END SECTION

GROOVED END ON OUTLET END SECTION TONGUE END ON INLET END SECTION

BAR OR STEEL FABRIC

REINFORCEMENT

LONGITUDINAL SECTION

CONCRETE ENDWALLS

OPTIONAL

1 1/2" R

CULVERT

MEASURED LENGTH

OF CULVERT (TO-

NEAREST FOOT)

DESIGN

REINFORCED

SECTION A-A)

END CORNER PLATES MAY

BE FASTENED TO APRON

THE SURFACES TIGHTLY

TOGETHER

PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD

TOE PLATE (SAME THICKNESS

AND METAL AS APRON) SHALL

BE FURNISHED WHEN CALLED

FOR ON THE PLANS

FDGE (SFE

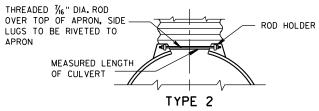
END SECTION CONNECTOR STRAP LUG

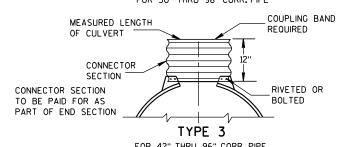
1" WIDE, 12 GA. (0.109"

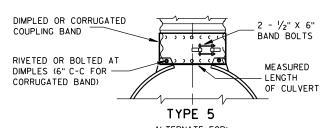
THICK) GALVANIZED STRAP

WITH STANDARD 6" X 1/2" BAND BOLT AND NUT

TYPE 1 FOR 12" THRU 24" CORR. PIPE





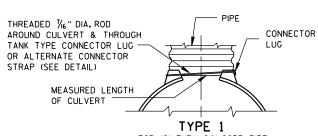


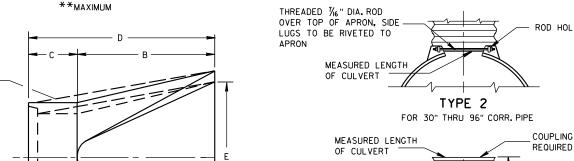
ALTERNATE FOR: ALL SIZES CORRUGATED CIRCULAR PIPE

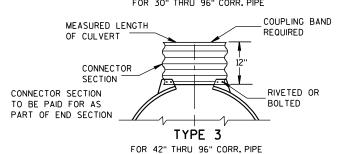
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

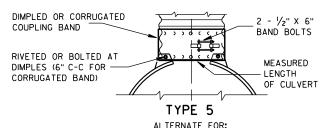
CONNECTION DETAILS 1, 2 OR 5.

ALTERNATE FOR TYPE 1 CONNECTION







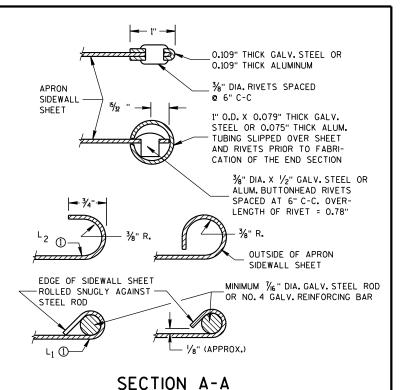


FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

FOR HELICALLY CORRUGATED PIPE USE ENDWALL

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION 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.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA, GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

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11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER

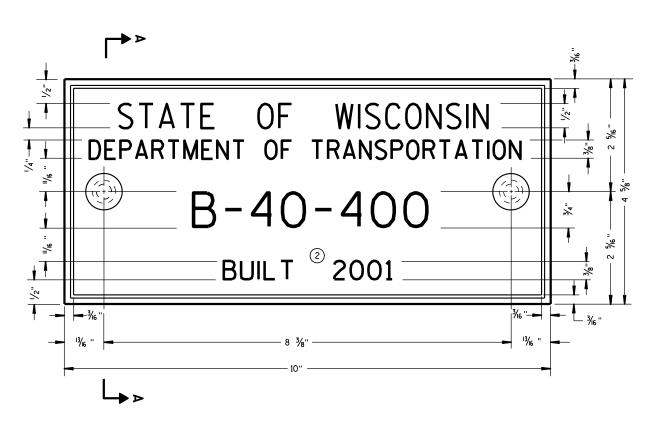
END CORNER

1/16" DIA. HOLES FOR

BOLTS OR RIVETS -

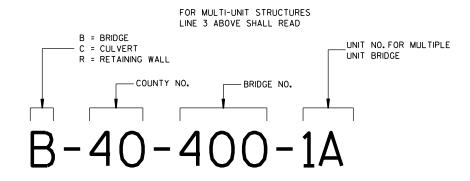
12" C-C MAX. SPACING





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



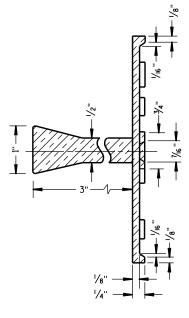
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

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.

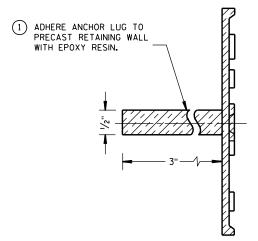
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

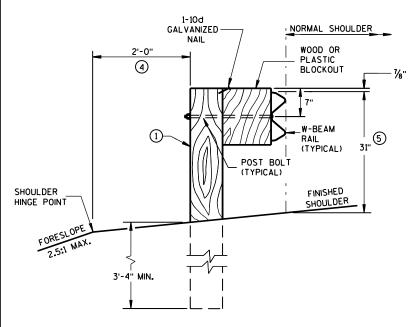
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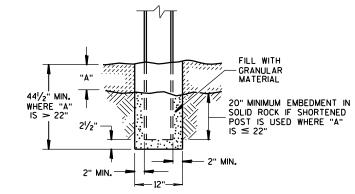
GENERAL NOTES

- (1) WOOD OR STEEL POSTS (W6X9 OR W6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 21/2INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- (4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- (5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

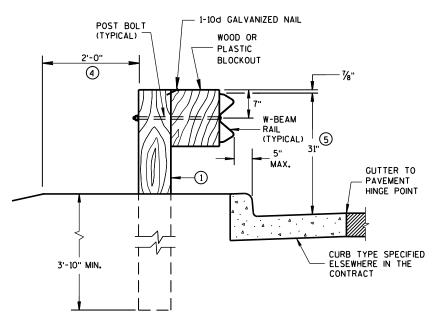


END VIEW

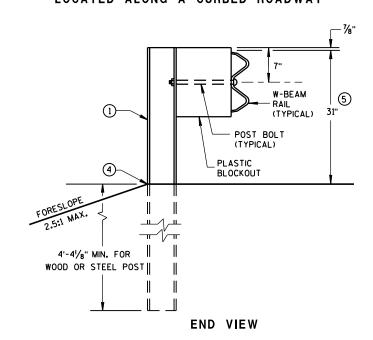
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



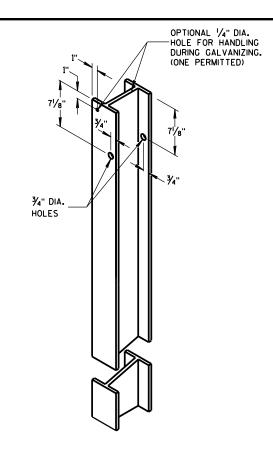
SETTING STEEL OR WOOD POST IN ROCK $^{\scriptsize{\textcircled{3}}}$



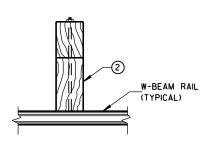
END VIEW
LOCATED ALONG A CURBED ROADWAY



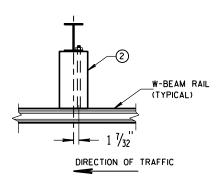
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



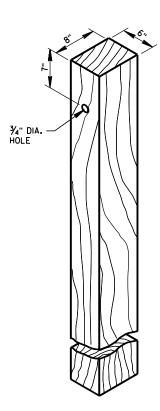
STEEL POST & HOLE PUNCHING DETAIL (w6X9)



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



WOOD OR PLASTIC BLOCKOUT

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

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S.D.D.

 \Box

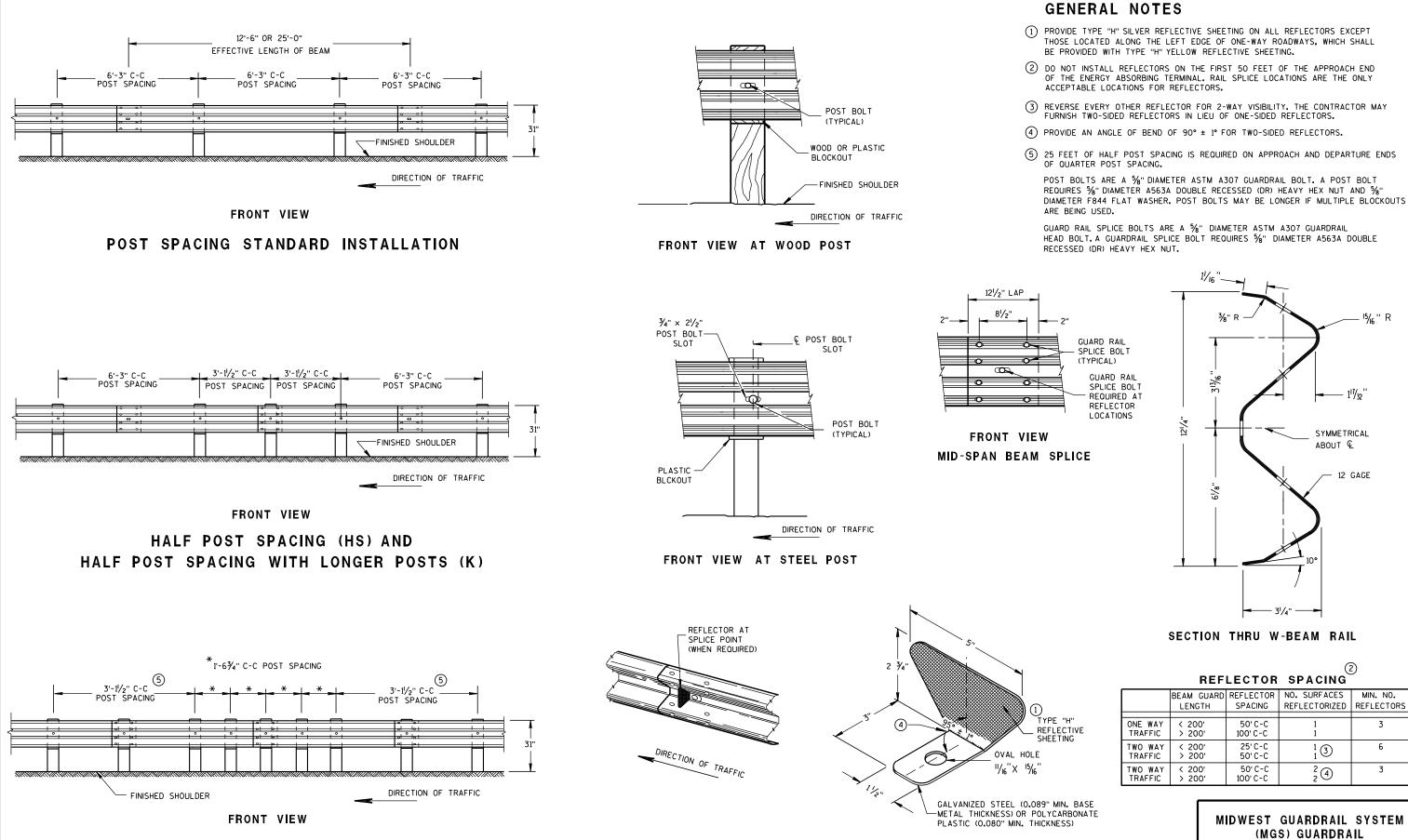
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ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

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QUARTER POST SPACING (QS)

¹⁵/₁₆" R

SYMMETRICAL

12 GAGE

ABOUT €

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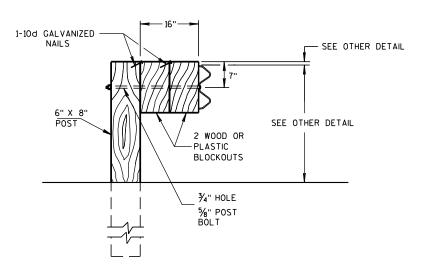
BEAM GUARD REFLECTOR NO. SURFACES MIN. NO.

SPACING | REFLECTORIZED | REFLECTORS 3 6 1 3 24 3

> MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

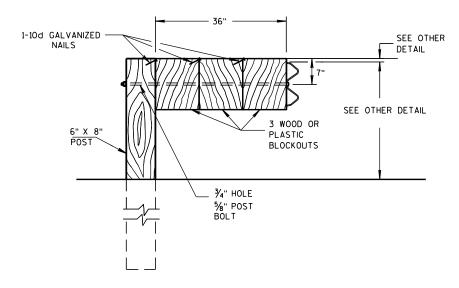
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION Ω Ω

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DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



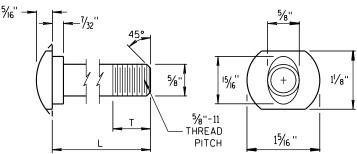
DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

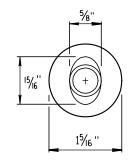
NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".

2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

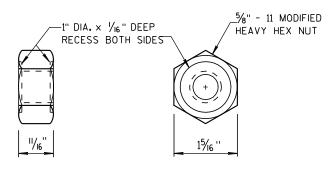


POST BOLT TABLE

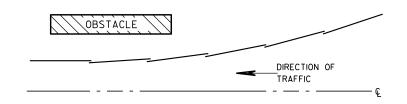
L	T (MIN.)
11/4"	1 1/8"
2"	13/4"
10"	4"
14"	4½ ₆ "
18"	4"
21"	4½ "
25"	4"



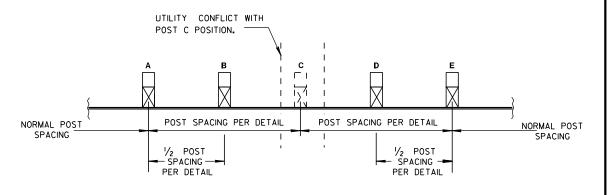
ALTERNATE BOLT HEAD



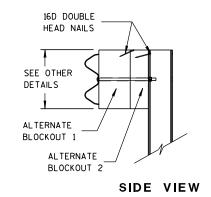
POST BOLT AND RECESS NUT

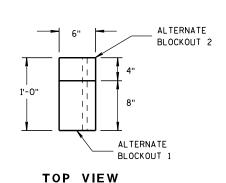


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

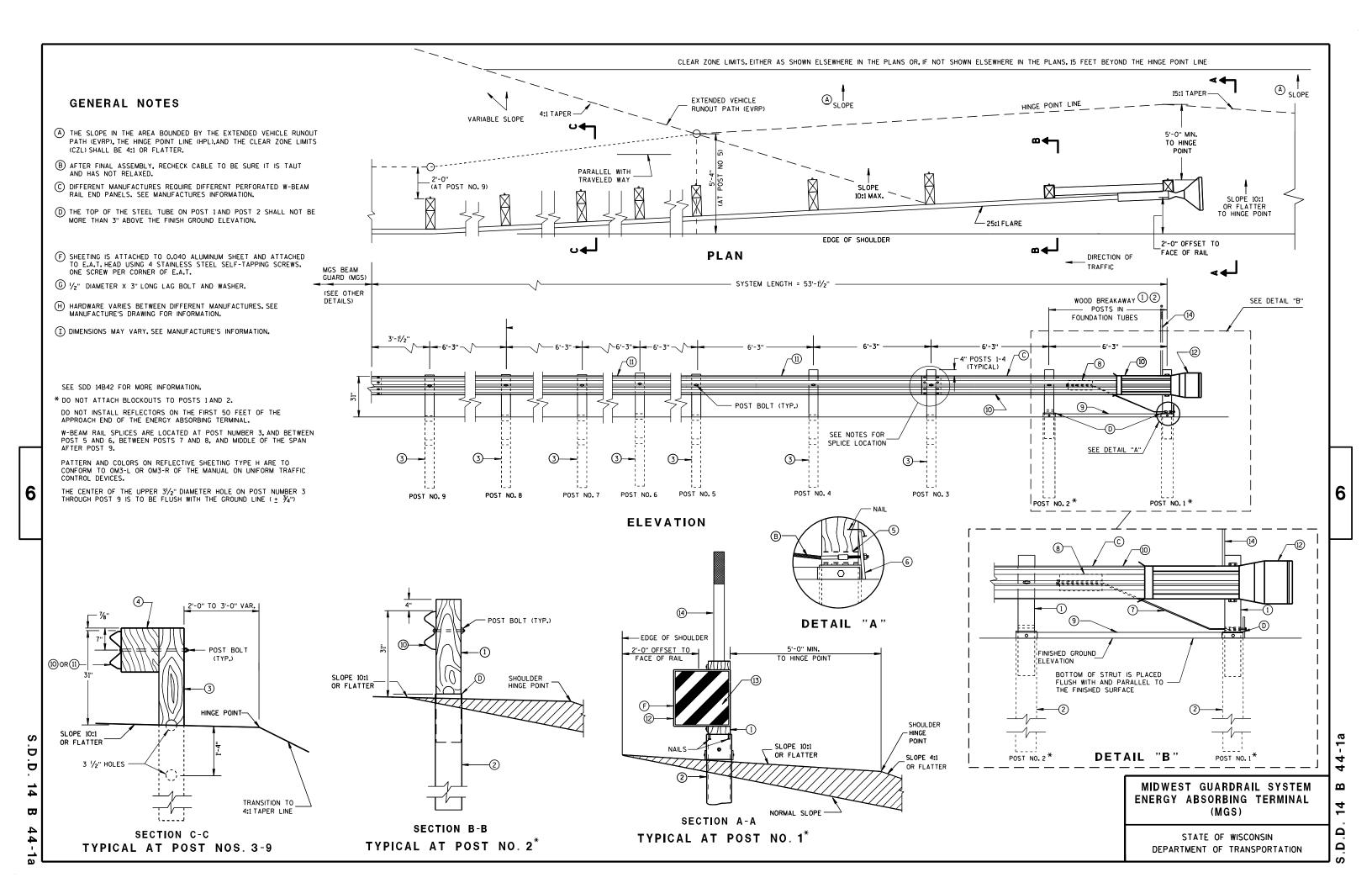
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

II/15/20II /S/ Jerry H. Zogg

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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GENERIC ANCHOR CABLE BOX

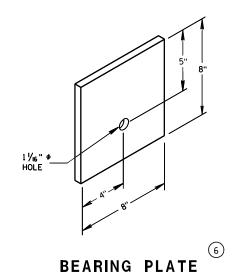
GENERIC GROUND STRUT

9 H

PLAN VIEW

BILL OF MATERIALS

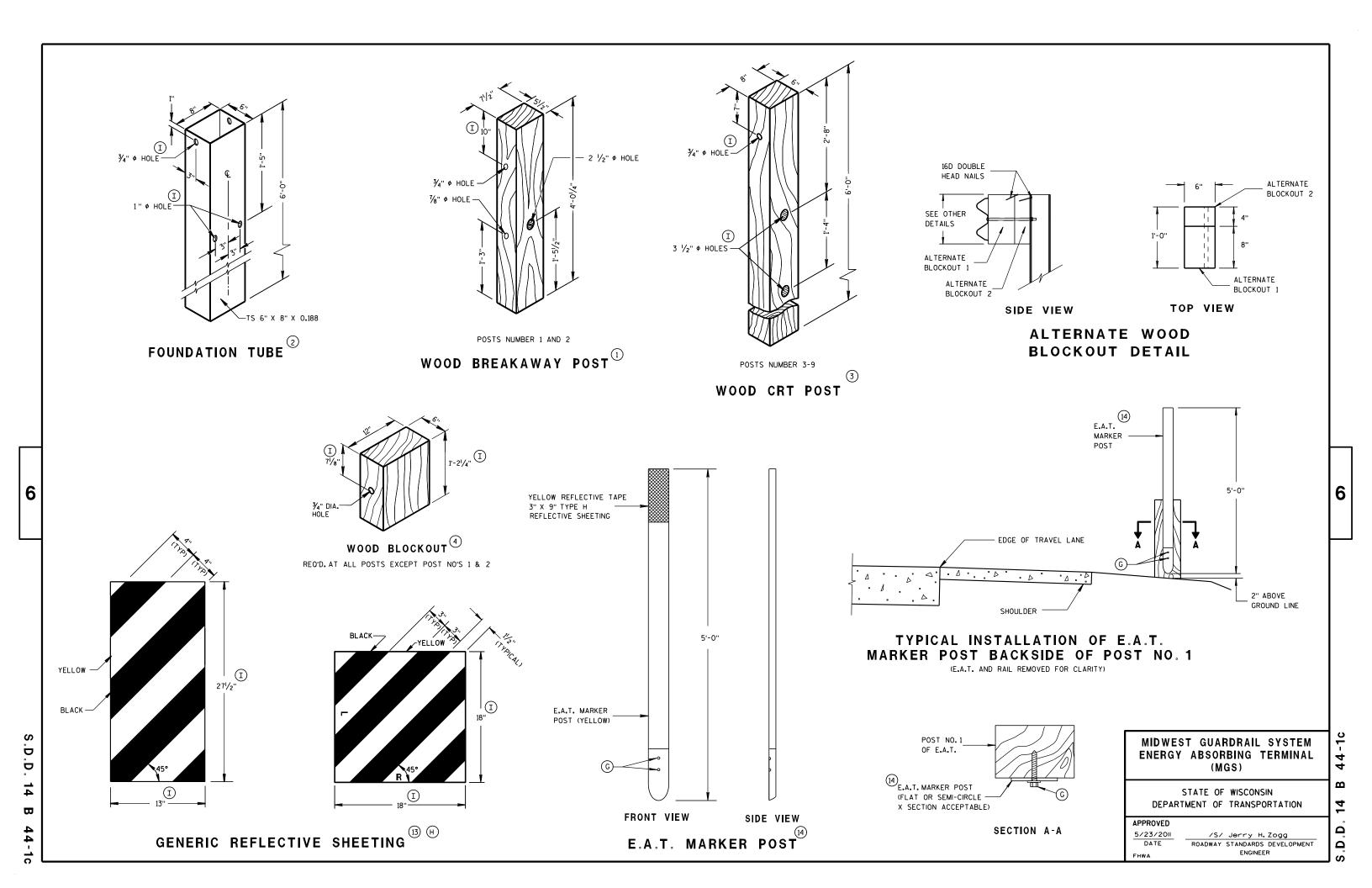
PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
1	WOOD BREAKAWAY POST
@	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1AND 2
3	WOOD CRT
4	WOOD BLOCKOUT
(5)	PIPE SLEEVE
6	BEARING PLATE
7	BCT CABLE ASSEMBLY
8	ANCHOR CABLE BOX
9	GROUND STRUT
10	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(1)	STANDARD W-BEAM RAIL.MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(2)	END SECTION EAT
13)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE H (ONLY THE SHEETING IS SUPPLIED BY THE MANUFACTURER)
14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)

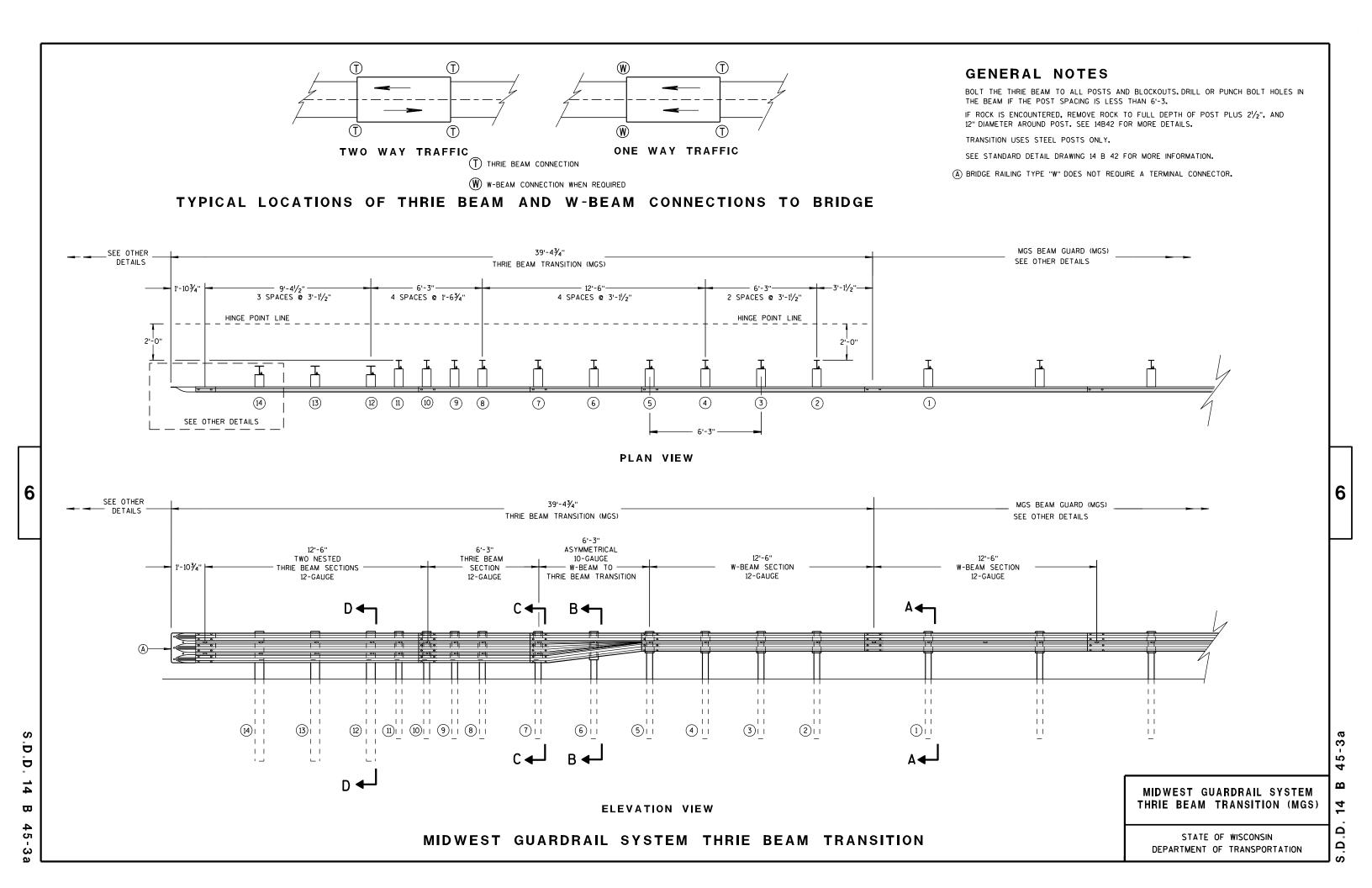


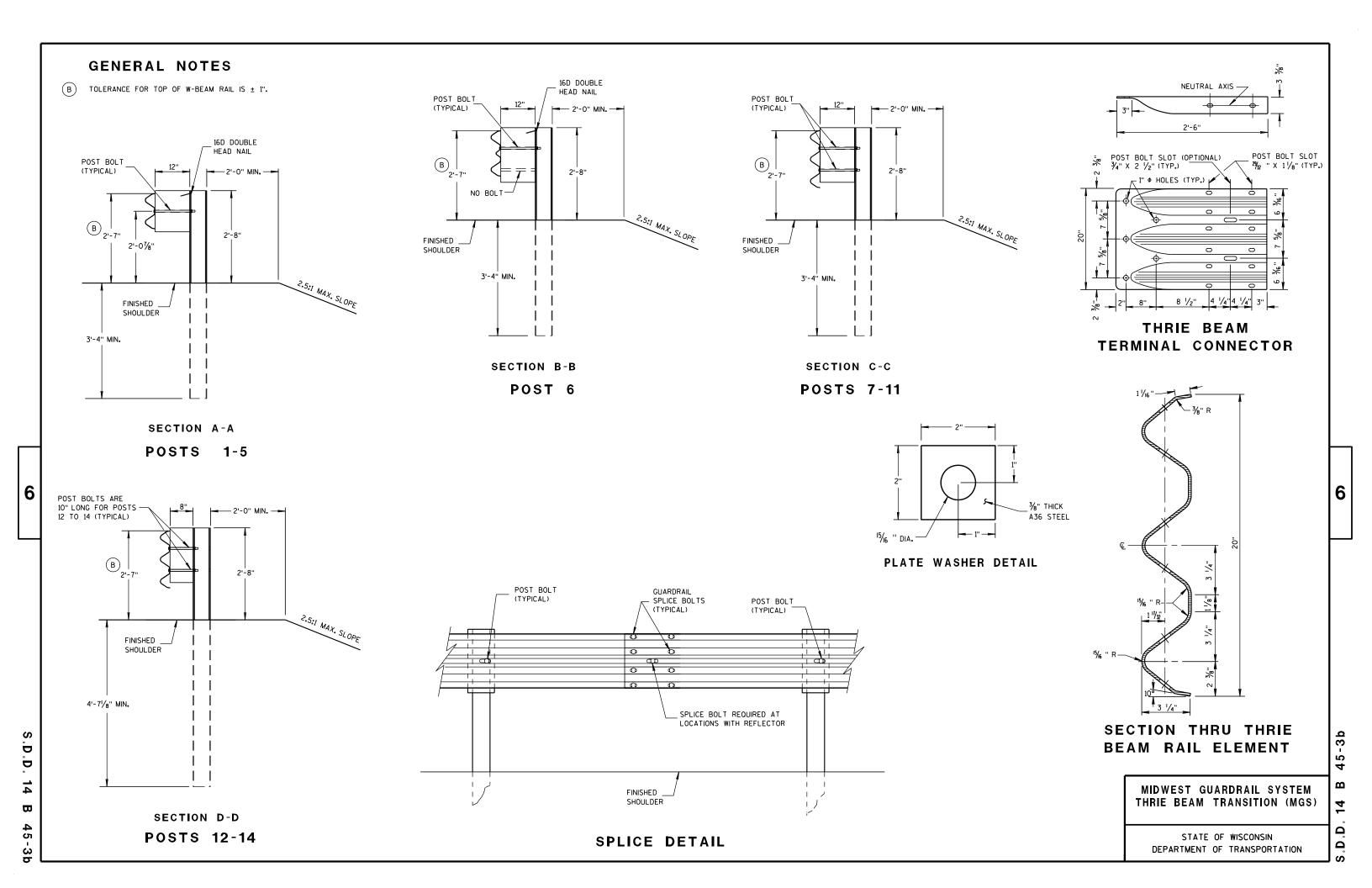
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

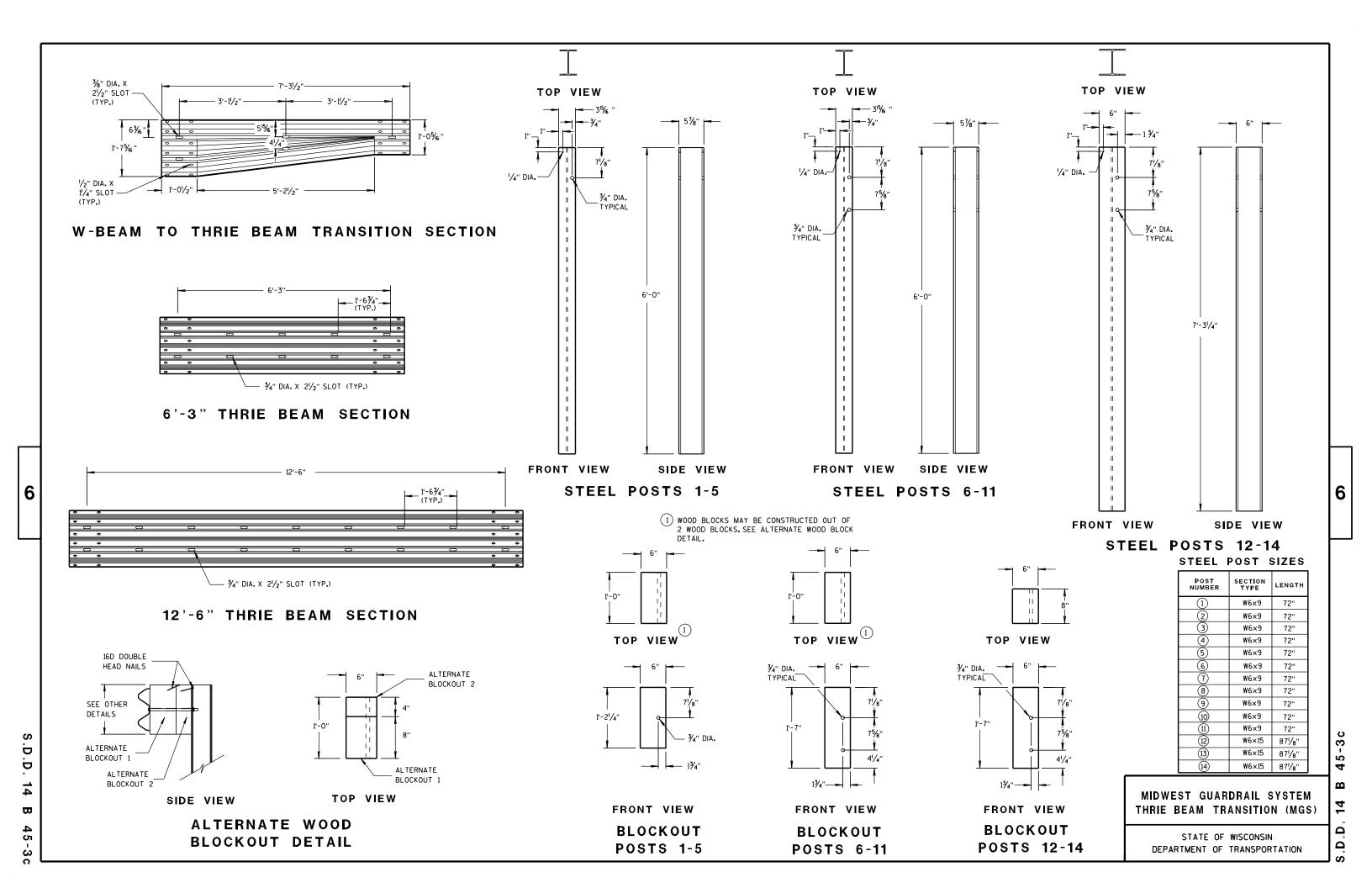
STATE OF WISCONSIN
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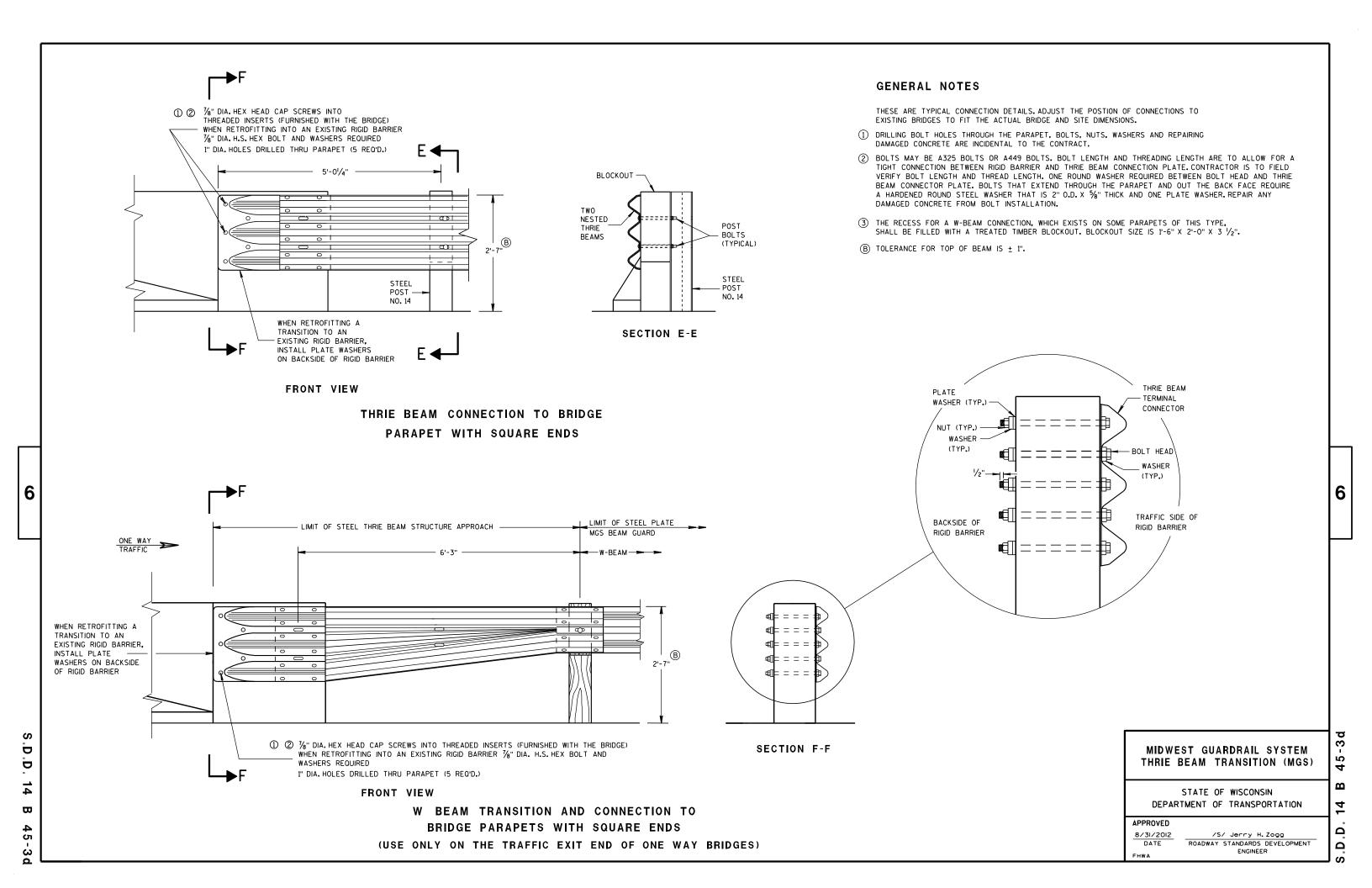
S.D.D.





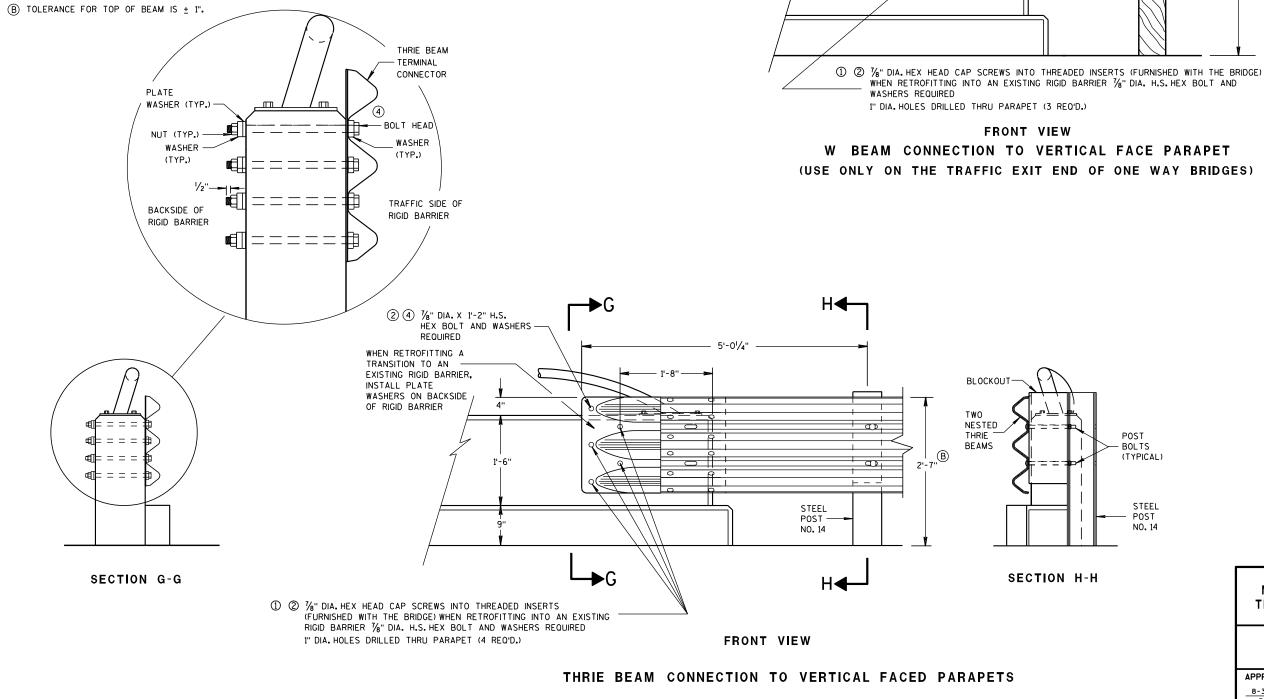






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- (1) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- (2) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE, BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5%" THICK AND ONE PLATE WASHER REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.
- (3) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2". BLOCK IS INCIDENTAL TO THE CONTRACT.
- 4 BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.



② 1/8" DIA. X 1'-2" H.S.

REQUIRED

WHEN RETROFITTING

A TRANSITION TO

AN EXISTING RIGID

BARRIFR INSTALL -

PLATE WASHERS

ON BACKSIDE OF

RIGID BARRIER

HEX BOLT AND WASHERS

W BEAM TERMINAL -CONNECTOR

4

LIMIT OF STEEL PLATE

5'-0 1/4" -

4'-2 1/4"

- 3'-1¹/2'

MGS BEAM GUARD

ONE WAY

(B)

6

2

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MIDWEST GUARDRAIL SYSTEM

THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

/S/ Jerry H. Zogg

ROADWAY STANDARDS DEVELOPMENT

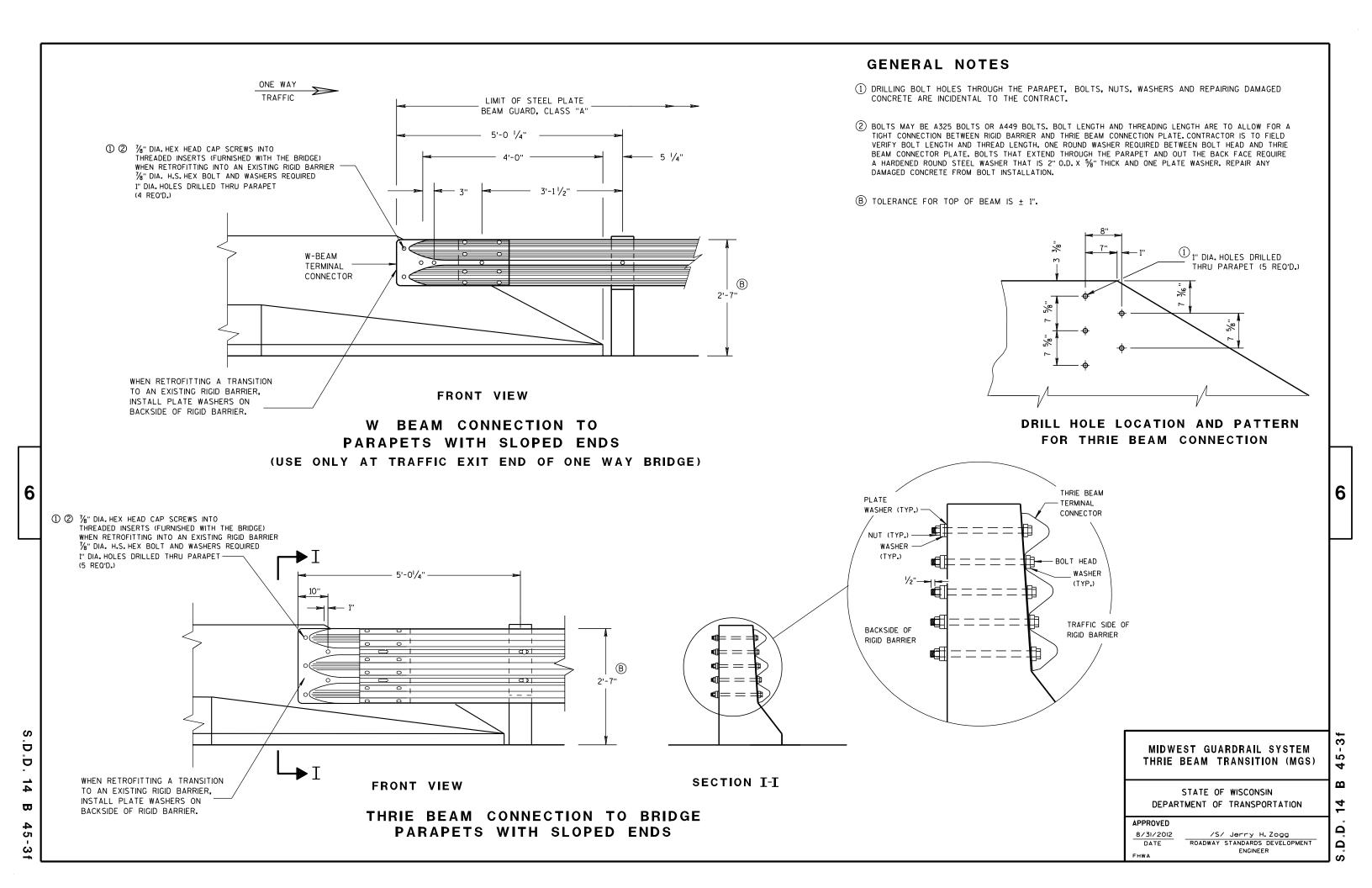
ENGINEER

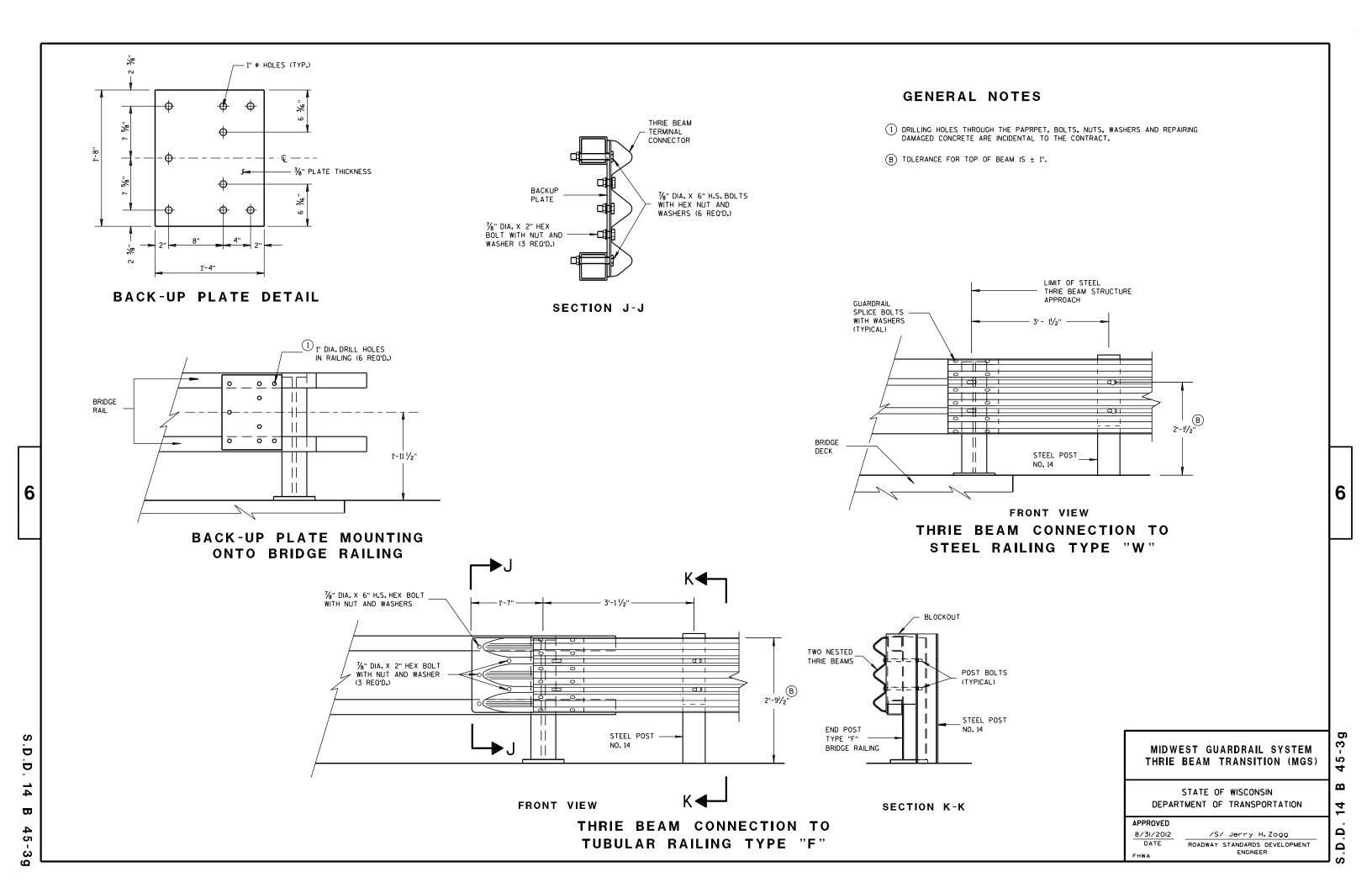
APPROVED

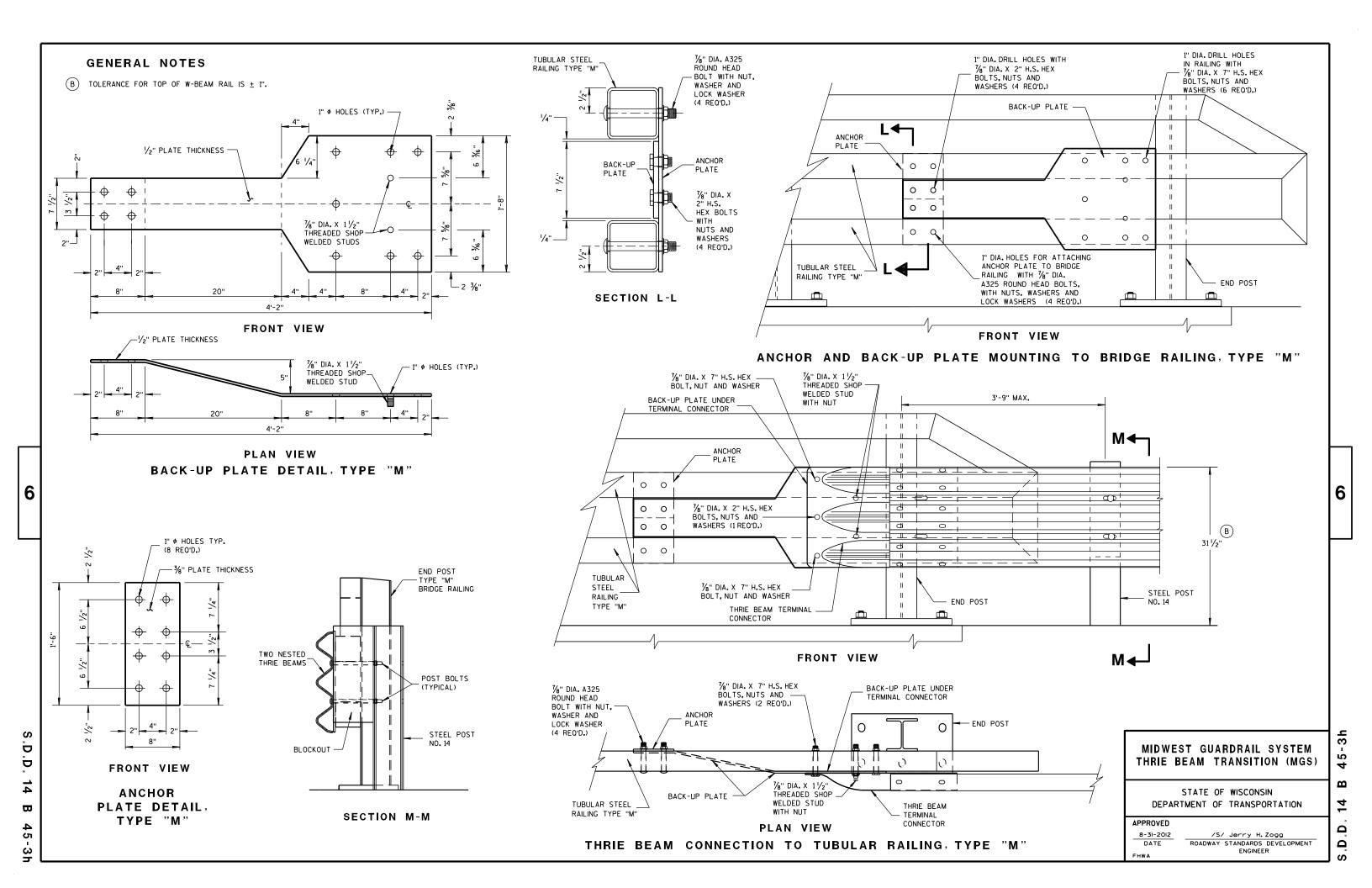
8-31-2012

2'-7"

TRAFFIC







	CONNE		R ASSEMBLY)	ION
PLATE	QUANTITY	SHAPE	SIZE (A × B × C × D)	THICKNESS
P1	1	в₫	20" × 20"	3/6 "
P2	1	B∱c	20" × 20" × 28%6"	¾6 "
Р3	1	B≜C D	39" × 35/8" × 20" × 191/6"	3∕16 ''
S1	4	B	18 1/16 " × 3 1/8" × 18 1/4"	1/4"
S2	1	B C D	10 ¹ / ₄ " × 2 ¹ / ₁₆ " × 10 ³ / ₈ " × ¹ / ₂ "	1/4"
S3	1	B C D	$3" \times 1^{1}/_{16}" \times 3^{1}/_{8}" \times 1^{1}/_{2}"$	1/4"
S4	1	вД	6½" × 2½6"	1/4"
S5	1	В	6½" × ½"	1/4"
S6	1	В	7¾" × 1¾"	1/4"
S7	1	ABC	2%6" × 6" × 3%" × 5%"	1/4"
S8	1	A∰C	1 ⁵ / ₃₂ " × 7 ¹ / ₂ " × 2 ¹ / ₂ " × 7 ³ / ₈ "	1/4"
S9	1	C 	$6\frac{1}{16}$ " × $6\frac{3}{16}$ " × $1\frac{3}{32}$ "	1/4"
S10	1	A D C	1%" × 9%" × 3%" × 911/16"	1/4"
S11	1	C A	8½" × 8¾" × 1⅓6 "	1/4"

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SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

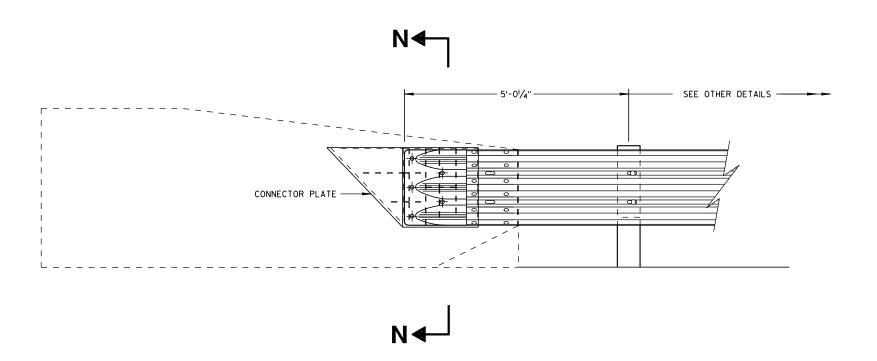
APPROVED

8/31/2012 /S/ Jerry H. Zogg

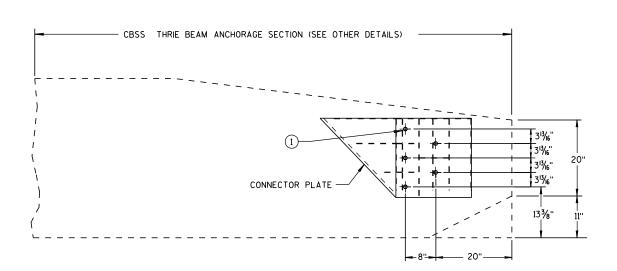
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

S.D.D. 1

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THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER

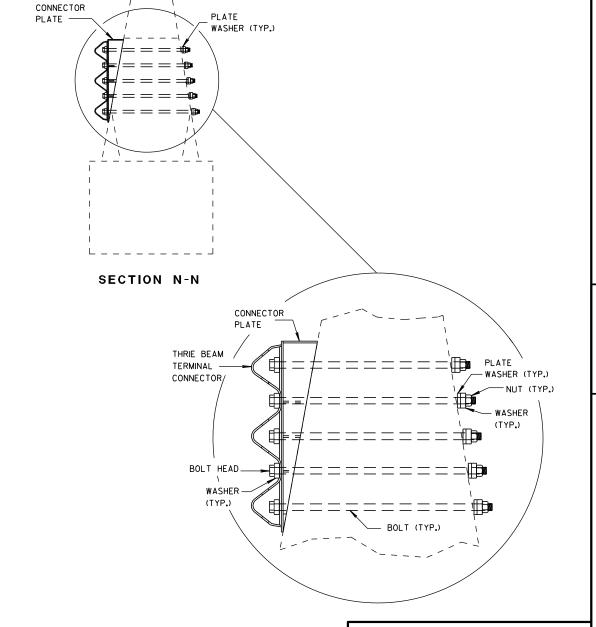


SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

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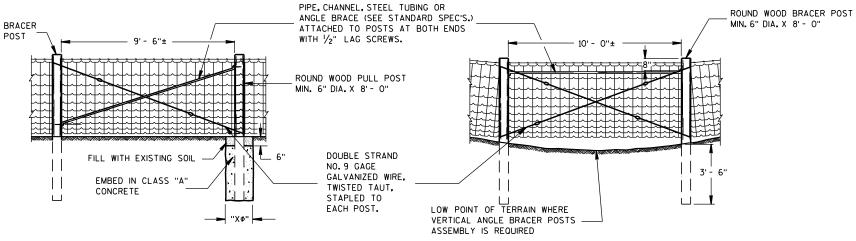
Ω

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 8/31/2012

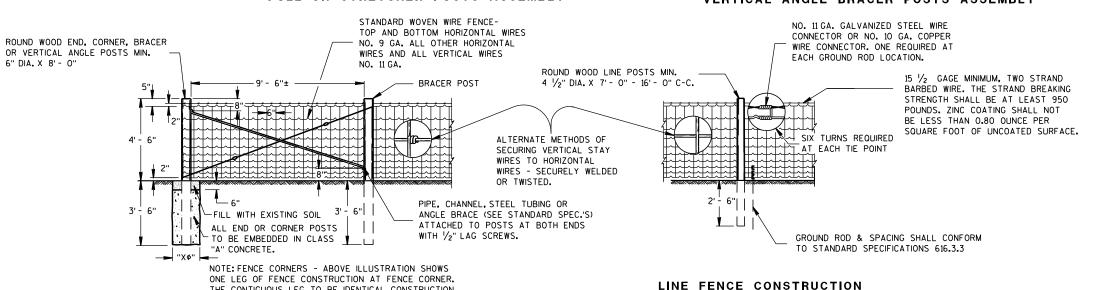
/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

ILLUSTRATION SHOWS POSITION OF STANDARD STEEL BRACE, DOUBLE STRAND GALVANIZED WIRE, AND THE POST TO BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM LEFT TO RIGHT. THE BRACES SHALL BE POSITIONED ON THE OPPOSITE DIAGONALS AND THE OPPOSITE POST SHALL BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM RIGHT TO LEFT.



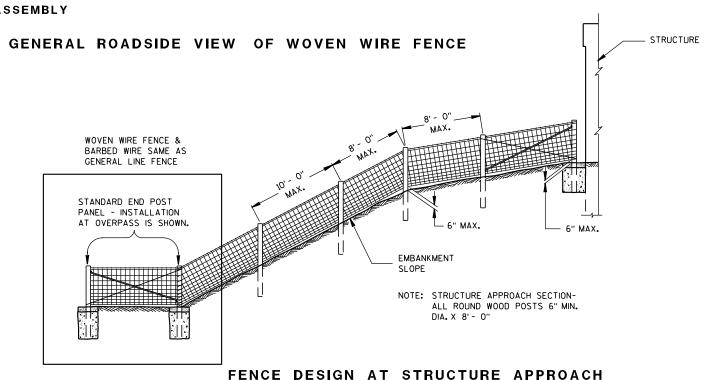
PULL OR STRETCHER POSTS ASSEMBLY

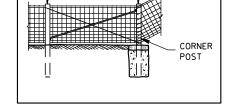
VERTICAL ANGLE BRACER POSTS ASSEMBLY



END OR CORNER POSTS ASSEMBLY

THE CONTIGUOUS LEG TO BE IDENTICAL CONSTRUCTION.





STANDARD END POST

PANEL - INSTALLATION AT UNDERPASS IS SHOWN.

ALTERNATE FENCE DESIGN AT STRUCTURE

GENERAL NOTES

"X ϕ " = DIAMETER OF THE POST PLUS 12".

FENCE STAPLES SHOULD NEVER BE DRIVEN VER-TICALLY INTO WOOD POSTS (WITH BOTH LEGS PARALLEL WITH THE WOOD GRAIN). DOING SO CAN SEPARATE THE GRAIN AND SIGNIFICANTLY REDUCE THE HOLDING POWER. ROTATING THE STAPLES SLIGHTLY OFF VERTICAL STRADDLES THE GRAIN AND PROVIDES MORE RESISTANCE TO PULL-OUT.

DO NOT STAPLE WIRE TIGHT TO THE LINE POSTS. ALLOW MOVEMENT OF WIRE FOR EX-PANSION AND CONTRACTION. STAPLE AR-RANGEMENT SHALL BE THE SAME FOR ALL OTHER POSTS EXCEPT THAT THEY SHALL BE DRIVEN TIGHT TO POSTS. ALL STAPLES SHALL BE 2" X 9 GAGE AND SHALL BE MAN-LIFACTURED FROM GALVANIZED WIRE OR HOT DIP GALVANIZED AFTER FORMING. STAPLES SHALL HAVE SLASH-CUT POINTS.

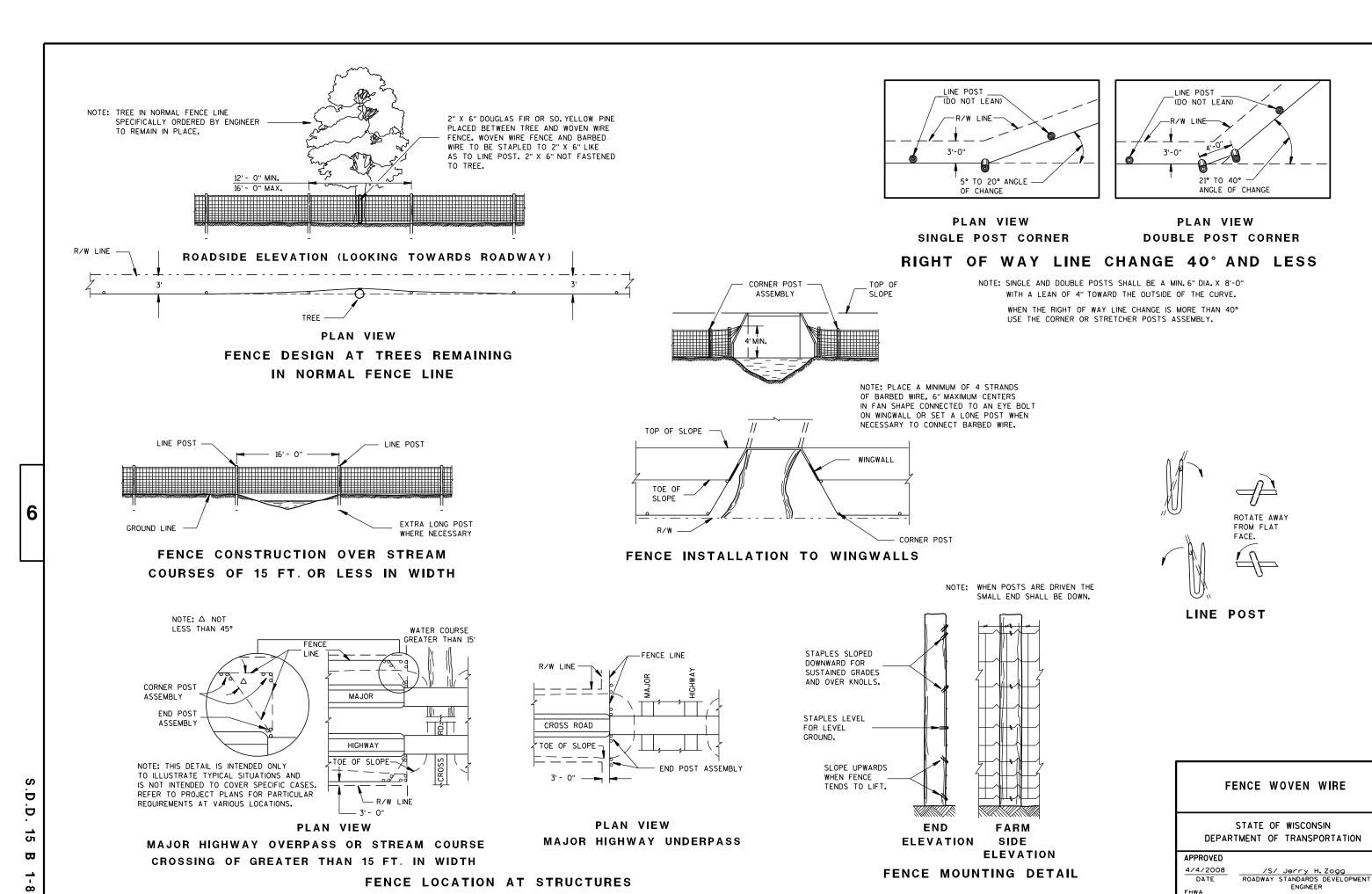
FENCE SHALL BE LOCATED 3'-0" INSIDE THE RIGHT OF WAY LINE UNLESS OTHERWISE INDICATED ON THE PLANS.

FENCE WOVEN WIRE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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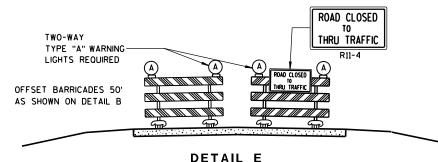
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BRIDGE ROAD 1)TWO-WAY **CLOSED** TYPE "A" WARNING LIGHTS REQUIRED OUTSIDE EDGE OF SHOULDER OUTSIDE EDGE OF SHOULDER OR FACE OF CURB OR FACE OF CURB **DETAIL D**

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



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

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.) 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
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- 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.
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

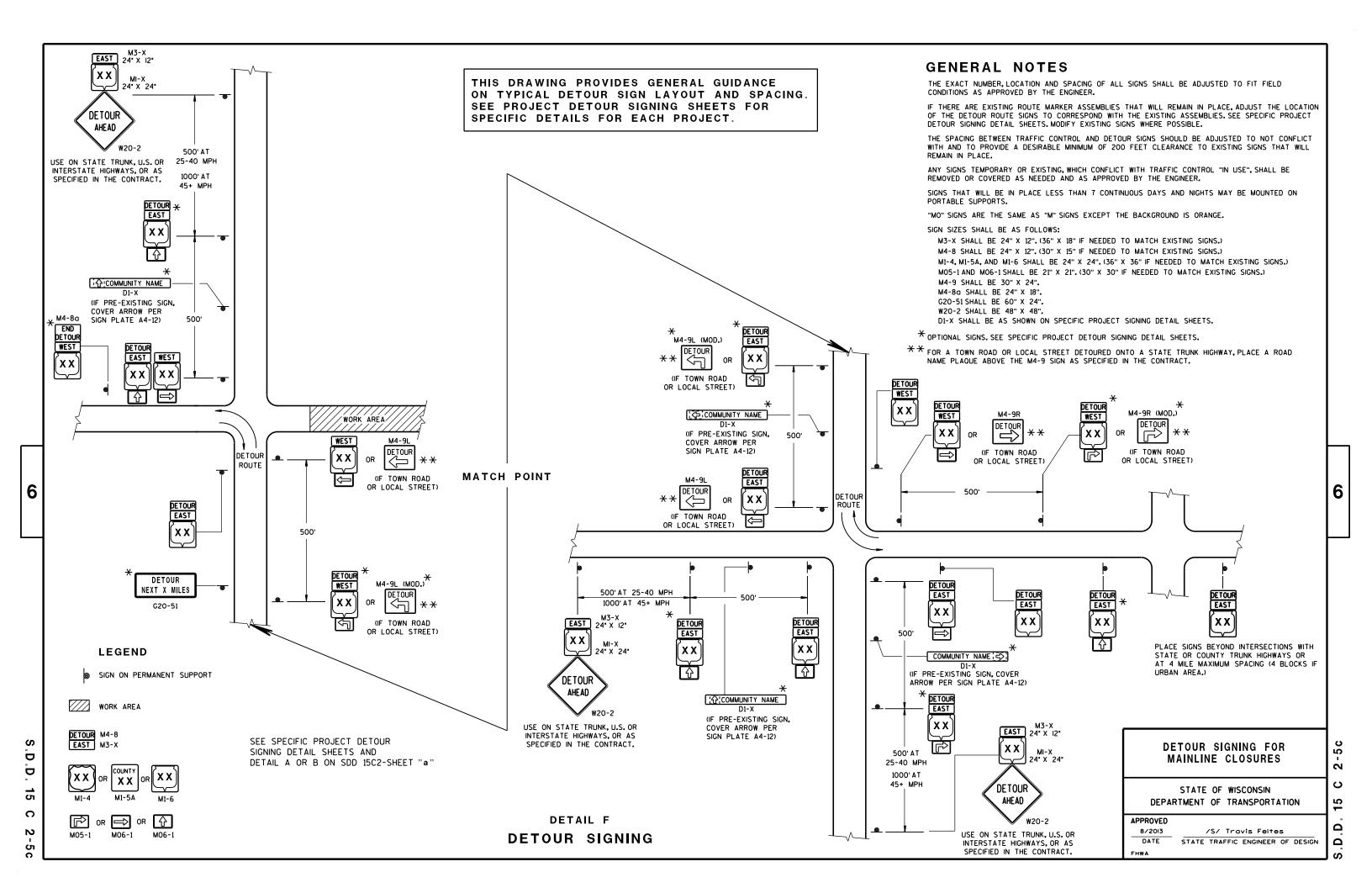
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

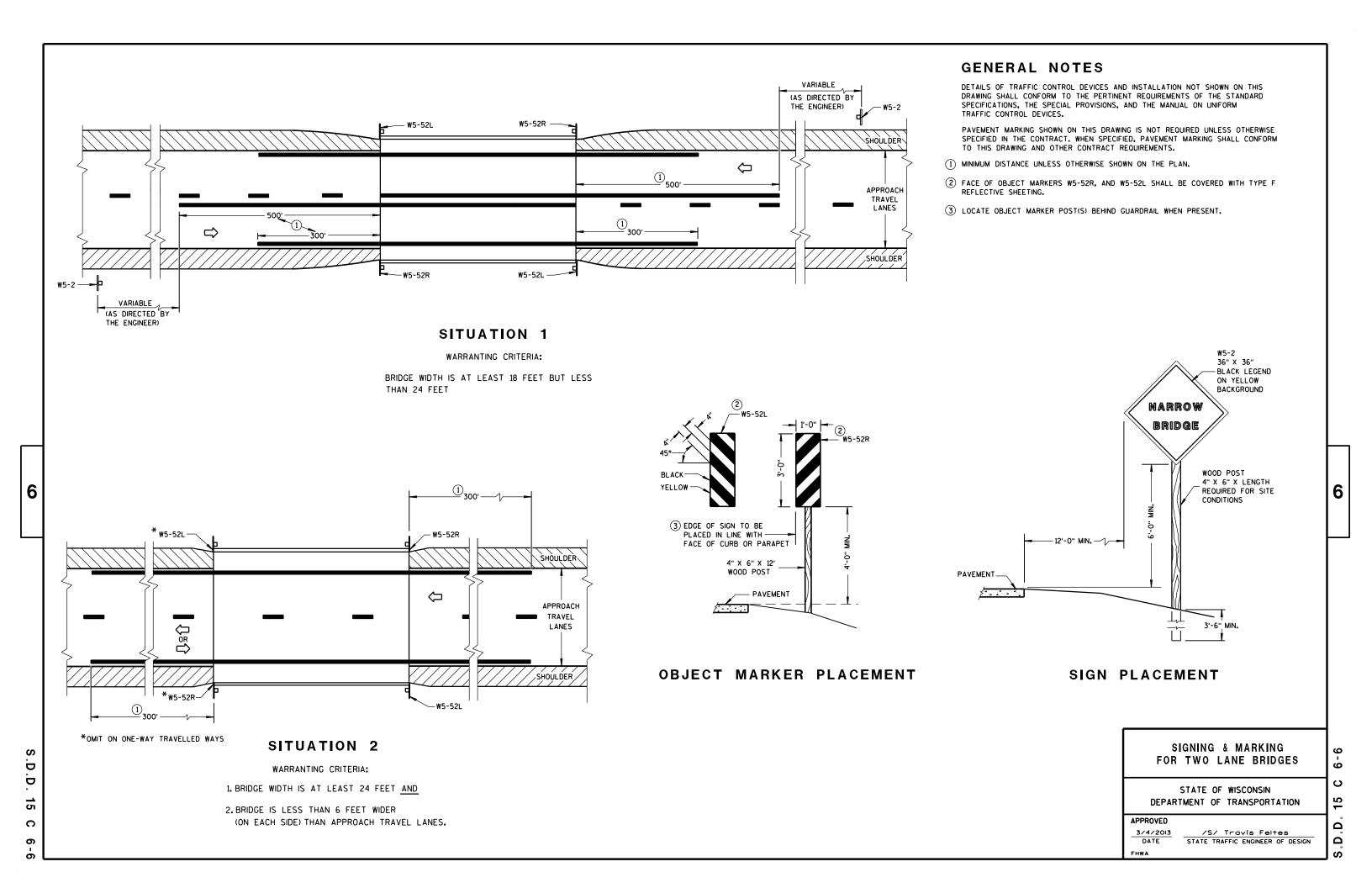
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

2

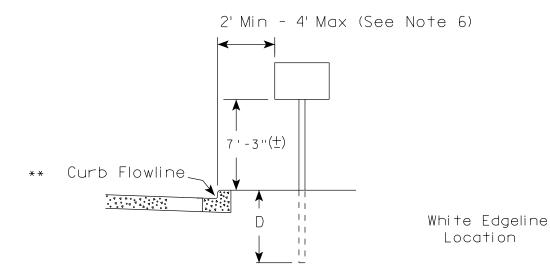
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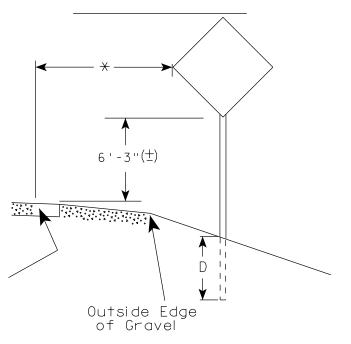




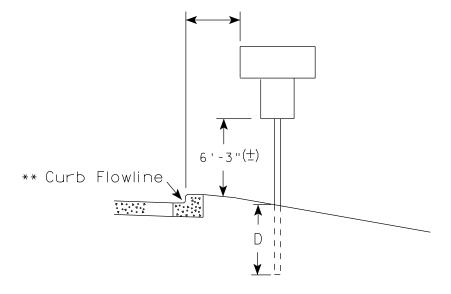
urban area



RURAL AREA (See Note 2)



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



White Edgeline
Location

Outside Edge
of Gravel

** 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.

HWY:

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

PLOT BY : mscj9h

GENERAL NOTES

- 1. Signs wider than 4 feet, 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 (A4-5) is 7'-3'' (\pm) or 6'-3'' (\pm) per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is 5' 3" (\pm) .
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (\pm) tolerance for mounting height is 3 inches.
- 8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (\pm) 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) & End of Rod Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (+).

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Rauh
For State Traffic Engineer

DATE 9/30/13

SHEET NO:

COUNTY:

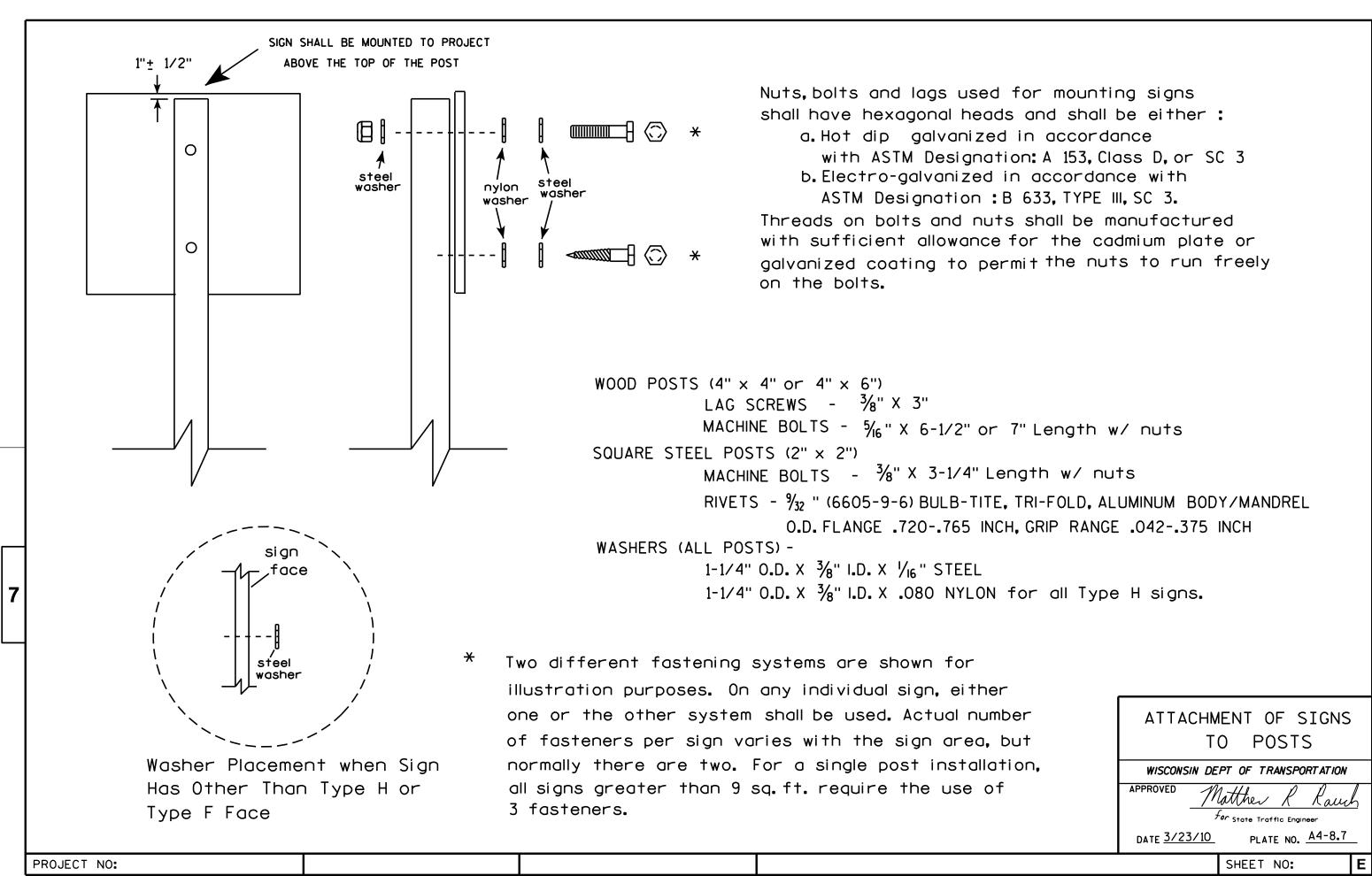
JN I Y:

PLOT DATE: 30-SEP-2013 13:25

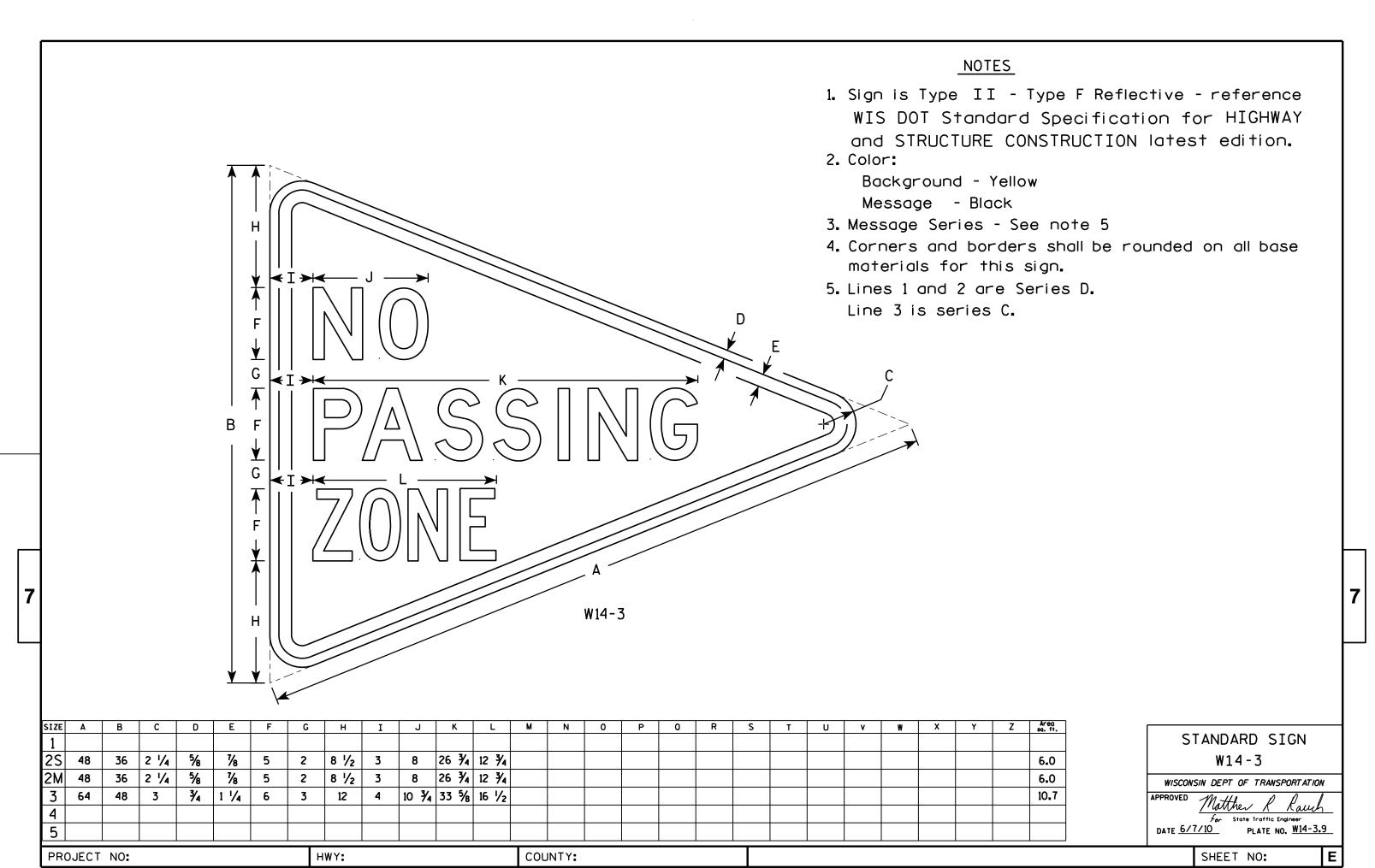
PLOT NAME :

PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42







FILE NAME : C:\Users\PROJECTS\tr_stdplate\W143.DGN

PLOT DATE: 07-JUN-2010 13:11

PLOT BY: ditjph

PLOT NAME :

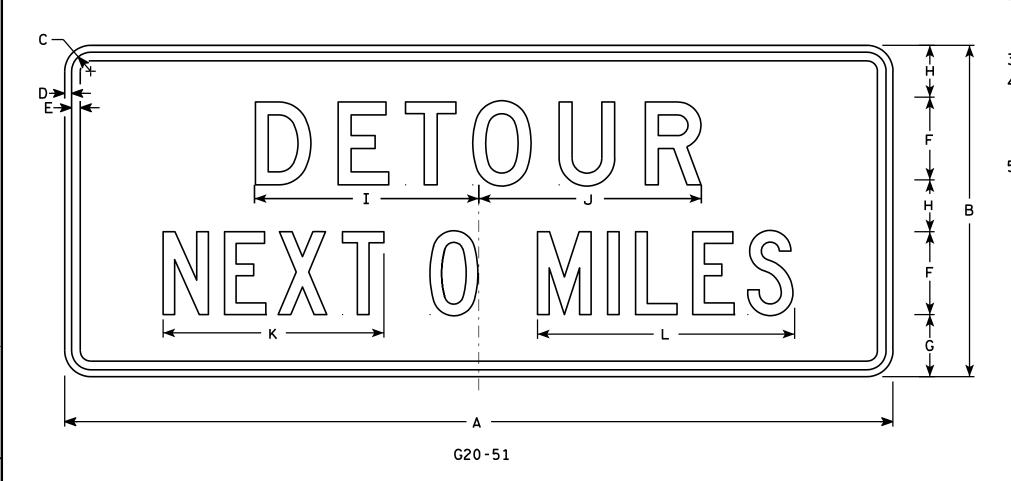
PLOT SCALE: 5.710749:1.000000

WISDOT/CADDS SHEET 42

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Message Series Line 1 is D and Line 2 is 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 and optically adjust spacing to achieve proper balance



Metric equivalent for this sign is:

1 2 1500 mm x 600 mm 3 4 1500 mm x 600 mm 5

PROJECT NO:

SIZE	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1																												
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 %															10	.90
3																												
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 %															10	.90
5																												

COUNTY:

STANDARD SIGN G20-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch

DATE 12/20/02

PLATE NO. G20-51.1

SHEET NO:

FILE NAME : C:\Users\Projects\tr_stdplate\G2051.DGN

HWY:

PLOT DATE: 12-OCT-2005 17:06

PLOT BY : DITJPH

PLOT NAME :

PLOT SCALE: 6.954303:1.000000

000000 WISDOT/CADDS SHEET 42

- Sign is Type II see Note 7 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

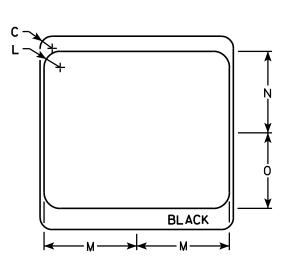
Background - White & Black - See Note 7 Message - Black

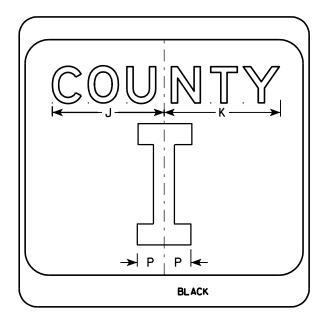
- 3. Message Series see Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Message Series E for 1 letter.

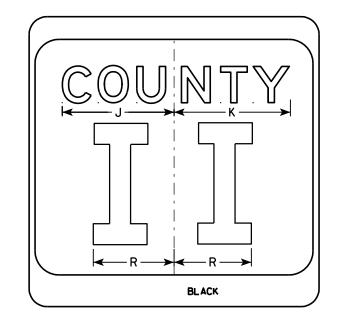
 Message Series D for 2 letters unless
 message is too big then Series C.

 Message Series C for 3 letters unless
 message is too big then Series B.
- 6. Substitute appropriate letters & optically center to achieve proper balance.
- 7. Permanent Signs

Background - Type H Reflective Detour or temporary Signs Background - Reflective







PLOT NAME :

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 %									4.0
3	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 %		10									9.0
5	36		2 1/4			16	4	7 5/8	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
DDO	IECT	NO.					111						COUN	TV.													
FRU	JECT	NO.					HV	V I .						1 1 .					I								

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

PROVED

Matthew Rauch

Forstate Traffic Engineer

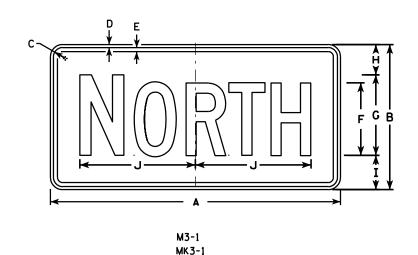
NATE 9/27/11 PLATE NO. M1-5A.8

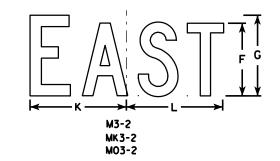
DATE 9/27/11

SHEET NO:

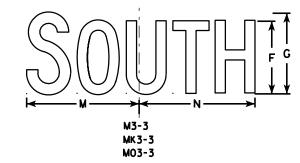
BLACK

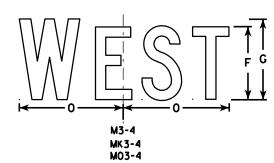
M1-5A



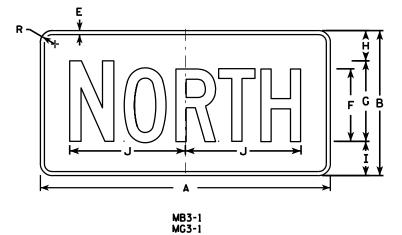


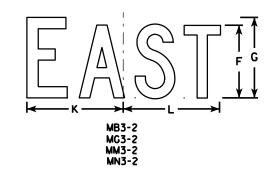
MO3-1





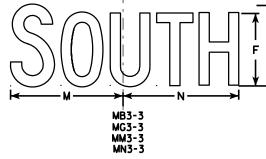
HWY:

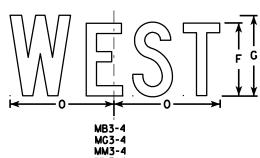




MM3-1

MN3-1





<u>NOTES</u>

- 1. All Signs Type II See Note 5 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - See note 5 Message - See note 5

- 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. M3-1 thru M3-4 Background White Type H Reflective (Detour or temporary signs Reflective) Message Black
 - MB3-1 thru MB3-4 Background Blue Message - White - Type H Reflective (Detour or temporary signs - Reflective)
 - MG3-1 thru MG3-4 Background Green

 Message White Type H Reflective
 - MK3-1 thru MK3-4 Background Green

 Message White Type H Reflective
 - MM3-1 thru MM3-4 Background White Type H Reflective Message Green
 - MN3-1 thru MN3-4 Background Brown
 Message White Type H Reflective
 - M03-1 thru M03-4 Background Orange Reflective Message Black
- 6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	כ	٧	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3⁄8	6	7	2 1/4	2 3/4	10 1/4	7 1/8	8 3/8	10 1/4	9 ¾	8 ¾			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

COUNTY:

STANDARD SIGNS M3-1 thur M3-4 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 11/10/10 PLATE NO. M3-1.12

SHEET NO: E

PROJECT NO:

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Message Series B
- 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.

	G
	F B G G G G G G G G G G G G G G G G G G
A M4 - 8	Y

Α С E F G H I J S Х Z D 0 10 10 1/4 1 1/8 3/8 3/8 24 2.0 3 36 1 1/8 3/8 1/2 4 1/2 14 5/8 14 1/2 4.5 4 5

COUNTY:

STANDARD SIGN M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

SHEET NO:

PROJECT NO:

HWY:

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

2. Color:

Background - Orange Message - Black

- 3. Message Series B
- 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.

 $D \longrightarrow$ Н M4-8A

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	w	Х	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 ¾																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

COUNTY:

STANDARD SIGN M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther For State Traffic Engineer

SHEET NO:

DATE 3/9/11

PLATE NO. M4-8A.2

PLOT SCALE: 3.972696:1.000000

WISDOT/CADDS SHEET 42

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M48A.DGN

HWY:

PROJECT NO:

PLOT DATE: 09-MAR-2011 10:29

PLOT BY: mscj9h

- Signs are Type II See Note 4 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - See note 4 Message - See note 4

- 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. M5-1 and M5-2 Background White Type H Reflective Message Black
 - MB5-1 and MB5-2 Background Blue

 Message White Type H Reflective
 - MG5-1 and MG5-2 Background Green

 Message White Type H Reflective
 - MK5-1 and MK5-2 Background Green
 - Message White Type H Reflective
 - MM5-1 and MM5-2 Background White Type H Reflective Message Green
- MN5-1 and MN5-2 Background Brown

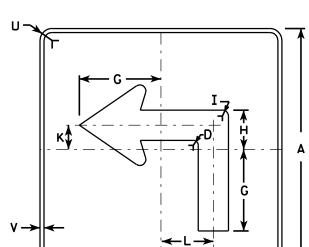
Message - White - Type H Reflective

- M05-1 and M05-2 Background Orange Type F Reflective Message - Black
- MP5-1 and MP5-2 Background White Type H Reflective Message Blue
- MR5-1 and MR5-2 Background Brown
 - Message Yellow Type H Reflective
- 5. M5-1R same as M5-1L except arrow points right.
- 6. M5-2R same as M5-2L except arrow tilts right.

c —	
D → E →	
Į.	←
·	M5-2L
	MK5-2L

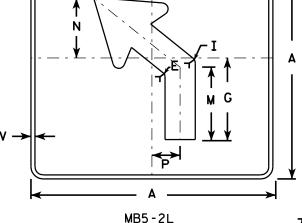
MK5-1L MM5-1L MO5-1L MP5-1L MR5-1L

M5-1L



MB5-1L MG5-1L MN5-1L

HWY:



MG5-2L

MN5-2L

MM5-2L

M05-2L

MP5-2L

MR5-2L

T A S

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	₩	Х	Y	Z	Areo sq. ft
1																											
2	21		1 1/8	3%	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 %	5 1/4	5	2 1/2		1/2	2 %	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 1/8	7 /8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 1/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 1/8	7 /8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 1/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 1/8	½		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 1/8	1/2					6.25

COUNTY:

STANDARD SIGN M5-1 & M5-2

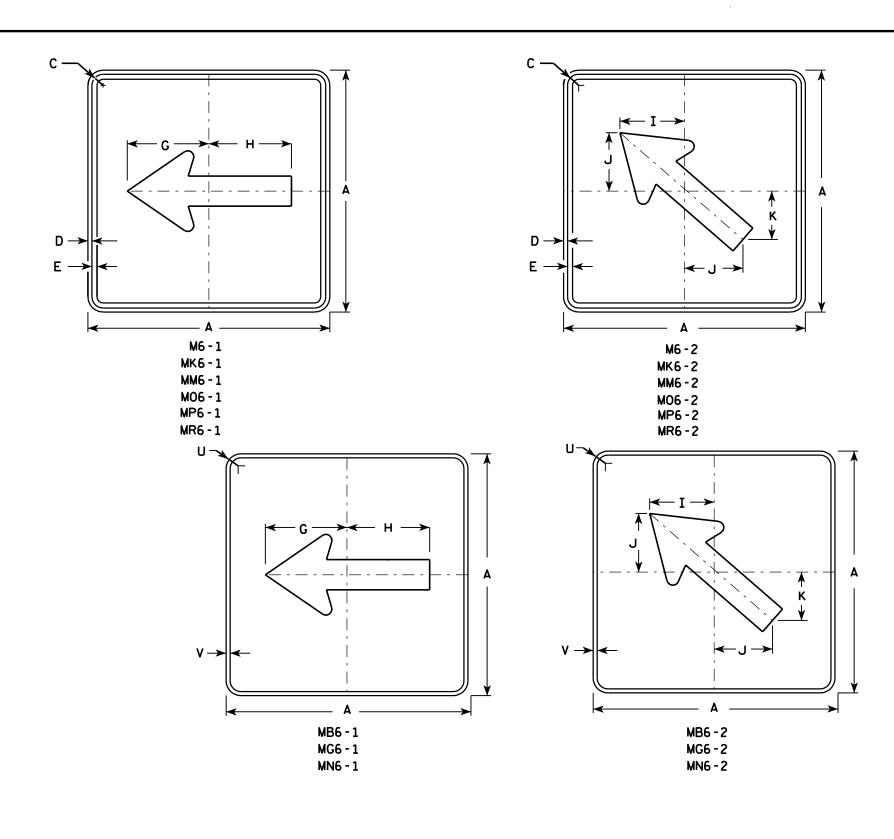
WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer
DATE 7/29/13 PLATE NO. M5-1.12

SHEET NO:

PROJECT NO:



- 1. Signs are Type II See Note 4 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

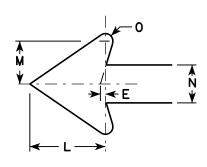
Background - See note 4 Message - See note 4

- 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. M6-1 and M6-2 Background White Type H Reflective Message Black
 - MB6-1 and MB6-2 Background Blue Message - White - Type H Reflective
 - MG6-1 and MG6-2 Background Green
 Message White Type H Reflective
 - MK6-1 and MK6-2 Background Green

 Message White Type H Reflective
 - MM6-1 and MM6-2 Background White Type H Reflective Message Green
 - MN6-1 and MN6-2 Background Brown

 Message White Type H Reflective
 - M06-1 and M06-2 Background Orange Type F Reflective Message - Black
 - MP6-1 and MP6-2 Background White Type H Reflective Message Blue
 - MR6-1 and MR6-2 Background Brown

 Message Yellow Type H Reflective



PLOT NAME :

SIZE	Α	В	С	D	Е	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	T	U	٧	₩	Х	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 %	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 ¾	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 ¾	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

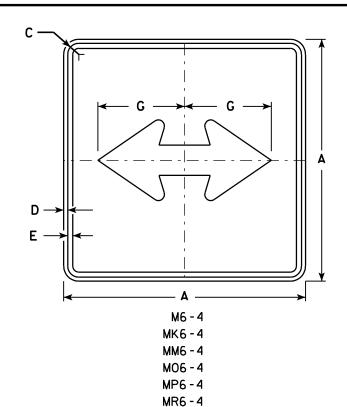
APPROVED

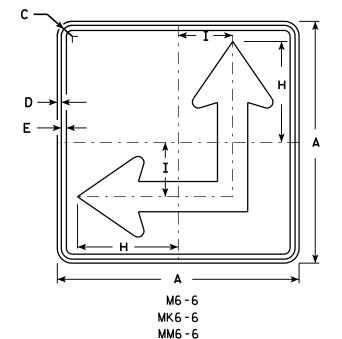
Matther R Rauch

DATE 7/29/13 PLATE NO. M6-1.13

SHEET NO:

HWY:

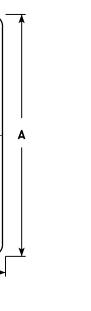




MO6-6

MP6-6

MR6-6

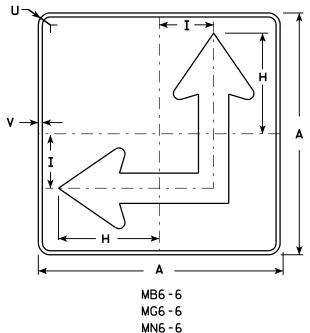


MB6-4

MG6 - 4

MN6 - 4

HWY:



NOTES

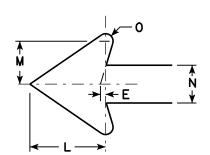
- 1. Signs are Type II See Note 4 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - See Note 4 Message - See Note 4

- 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. M6-4 and M6-6 Background White Type H Reflective Message Black
 - MB6-4 and MB6-6 Background Blue
 - Message White Type H Reflective
 - MG6-4 and MG6-6 Background Green
 - Message White Type H Reflective
 - MK6-4 and MK6-6 Background Green

 Message White Type H Reflective
 - MM6-4 and MM6-6 Background White Type H Reflective
 - Message Green
 - MN6-4 and MN6-6 Background Brown
 - Message White Type H Reflective M06-4 and M06-6 Background Orange Type F Reflective
 - Message Black
 - MP6-4 and MP6-6 Background White Type H Reflective
 - Message Blue
 - MR6-4 and MR6-6 Background Brown

 Message Yellow Type H Reflective
- 5. M6-6R same as M6-6L except arrow points ahead and right.



PLOT NAME :

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Areg sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 %	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	₹4						1 %	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25

COUNTY:

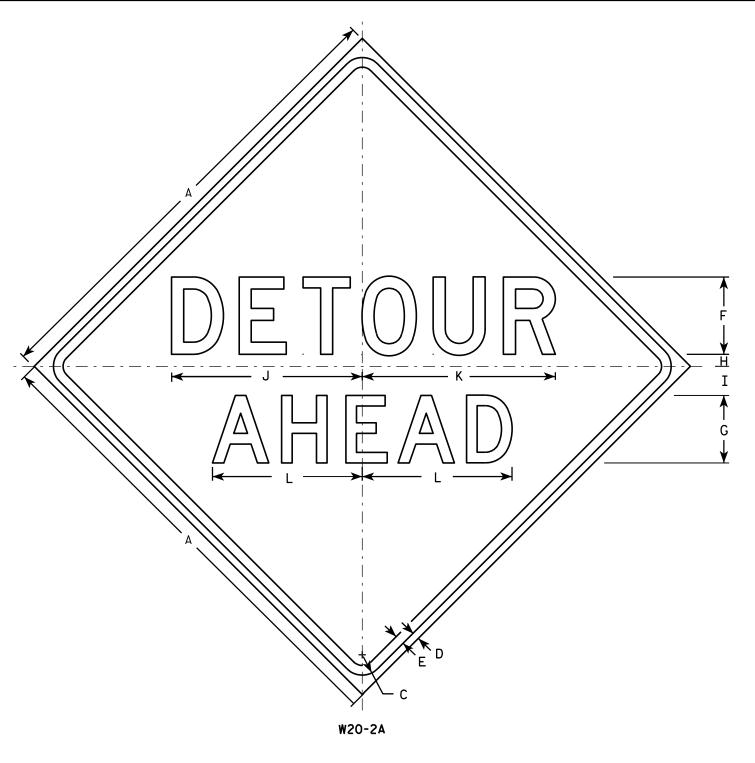
STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

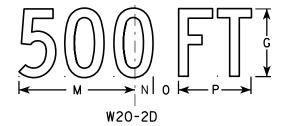
APPROVED

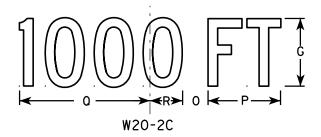
DATE 7/29/13 PLATE NO. M6-4.8

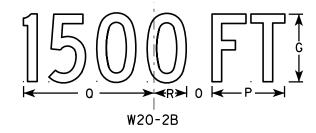
SHEET NO:

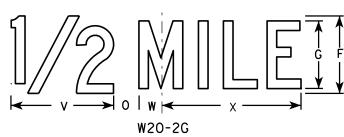


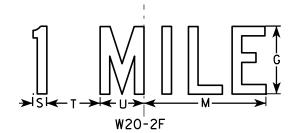
HWY:











PLOT BY: mscj9h

<u>NOTES</u>

- Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Message Series See note 5
- 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. Line 1 is Series D.
 Line 2 is Series D for AHEAD and
 Series C for all other distances.

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1	36		1 1/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 %	9	1 3/8	1 %	5 %	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 3/8	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 3/8	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
3	48		2 1/4	3∕4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 %	2 %	7 1/2	13 ½	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
4	48		2 1/4	3∕4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 %	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 %	2 3/8	14 3/8	·		16.0

COUNTY:

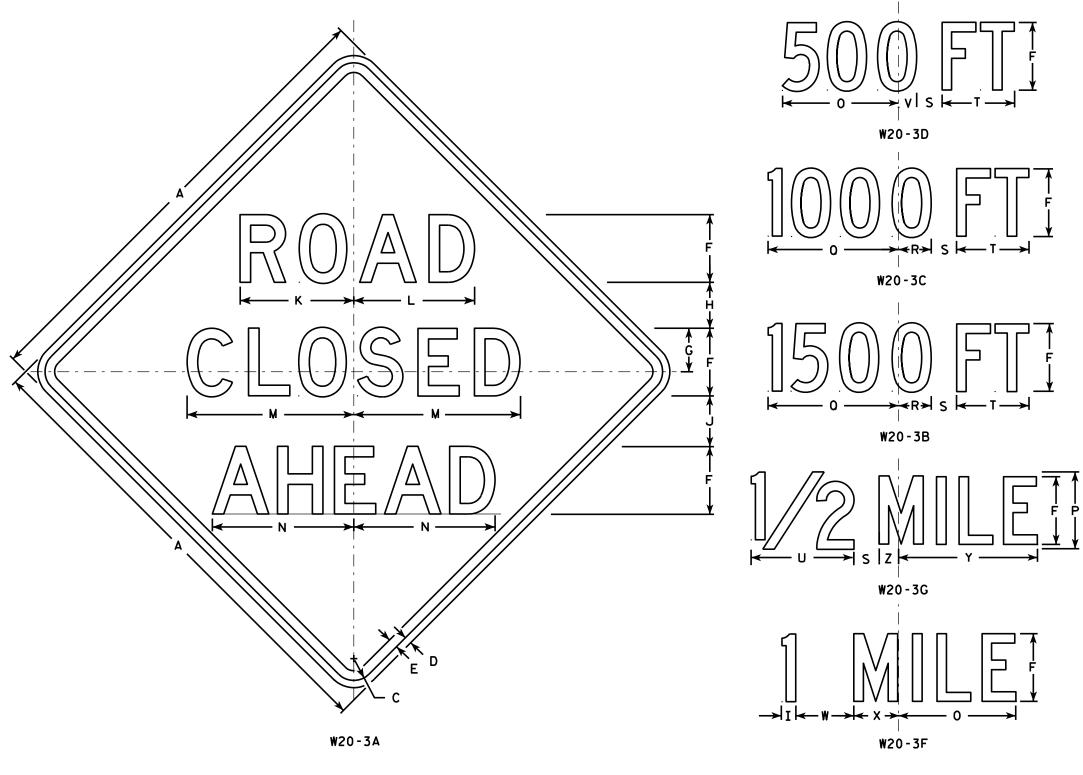
STANDARD SIGN W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

SHEET NO:



- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Message Series see note 5
- 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. Lines 1 and 2 are Series D. Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	٧	w	х	Y	Z	Areo sq. ft.
1	36		1 %	5/8	₹4	5	3 3/8	3 ½	1 1/8	4	8 3%	8 %	12 1/2	11	9	6	10 1/8	2 1/2	1 %	5 %	8	1 3/8	4 1/2	3 1/2	10 ¾	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 %	12	8	13 1/2	3 %	2 %	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 ¾	12 1/2	17 1/4	14 %	12	8	13 1/2	3 %	2 %	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 ¾	12 1/2	17 1/4	14 %	12	8	13 1/2	3 %	2 %	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 %	12	8	13 1/2	3 %	2 %	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 %	12	8	13 1/2	3 %	2 5/8	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
	-		- , -	, -	_		, , .				,			- ,0			, -	- 70	_ , ,	, -	70	- 70		, ,	- ,0	- 70	

STANDARD SIGN W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

DATE 3/18/11

For State Traffic Engineer
PLATE NO. W20-3.7

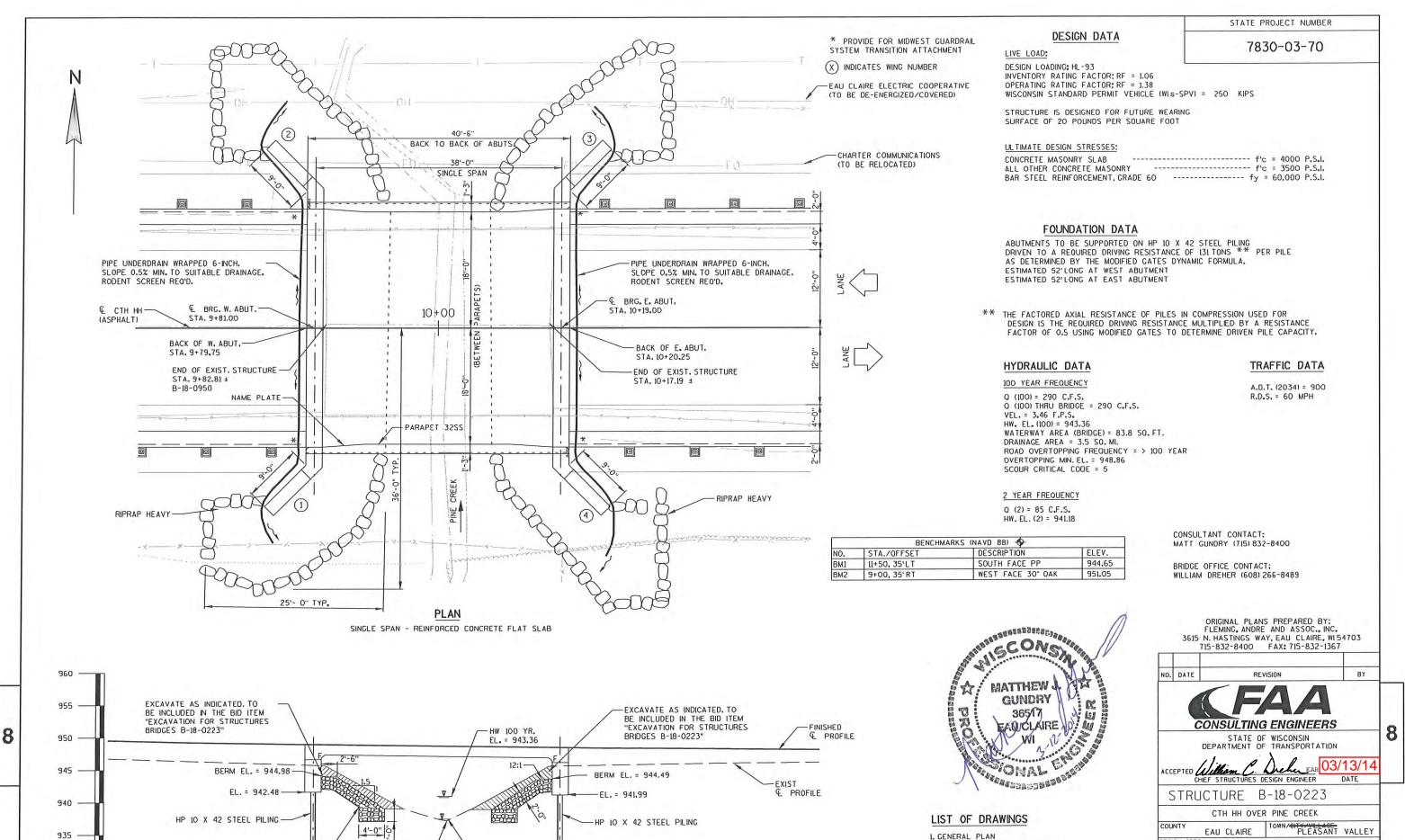
SHEET NO:

HWY:

COUNTY:

PLOT NAME :

PLOT SCALE: 9.931739:1.000000



STREAM BED

EL. = 938.50

ELEVATION

HEAVY RIPRAP WITH-

GEOTEXTILE FABRIC

TYPE HR

930

OBSERVED WATER SURFACE

EL. = 938.82

NOV. 9. 2011

DESIGN SPEC.

AASHTO LERD DESIGN SPEC. 5+h EDITION

DESIGNED RMJ DESIGN MJG DRAWN RMJ CKD. MJG

GENERAL PLAN

SHEET 1 OF 8

2. CROSS SECTION & QUANTITIES

4. ABUTMENT ELEVATION DETAILS

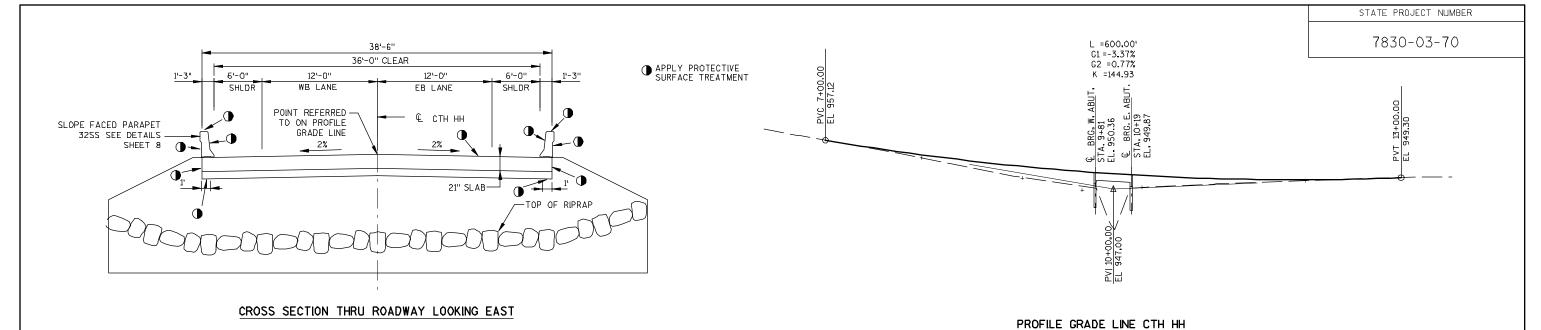
8. SINGLE SLOPE PARAPET 32SS

3. SUBSURFACE EXPLORATION

5. ABUTMENT WING DETAILS

6 ABUTMENT BILL OF BARS

7. SUPERSTRUCTURE



38' SINGLE SPAN E BRG. W. ABUT. -€ BRG.E.ABUT. -DESIGN PROFILE GRADE LINE CAMBER DIAGRAM

CAMBER SPANS AS SHOWN TO PROVIDE FOR DEADLOAD DEFLECTION AND FUTURE CREEP. SEE CAMBER VALUES IN ADJACENT TABLE. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT, DEADLOAD DEFLECTION COMPRISES APPROXIMATELY 1/3 OF THE FULL CAMBER VALUE GIVEN.

TOP OF SLAB ELEVATIONS AND CAMBER VALUES

LOCATION	LT.EDGE SLAB ELEV.	© BRIDGE ELEV₀	RT.EDGE SLAB ELEV.	CAMBER VALUE (INCHES)
W. & ABUT.	949.98	950.36	949.98	0
1/10	949.93	950.31	949.93	3∕⁄8
2/10	949.88	950.26	949.88	3/4
3/10	949.83	950,21	949.83	1
4/10	949.77	950.15	949.77	1 1/8
5/10	949.72	950.10	949.72	1 1/4
6/10	949.67	950.05	949.67	1 1/8
7/10	949.63	950.01	949.63	1
8/10	949.58	949.96	949.58	3/4
9/10	949.53	949.91	949.53	3/ _B
E. € ABUT.	949.49	949.87	949.49	0

GENERAL NOTES

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEMS	UNIT	SUPER.	WEST ABUT.	EAST ABUT.	CAT. 0020 TOTAL	CAT. 0030 TOTAL
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 10+00.00	LS	-	-	-	1	0
205.1000	EXCAVATION FOR STRUCTURES BRIDGES B-18-0223	LS	-	-	-	1	0
210.0100	BACKFILL STRUCTURE	CY	-	100	100	180	20
502.0100	CONCRETE MASONRY BRIDGES	CY	116	32	32	160	20
502.3200	PROTECTIVE SURFACE TREATMENT	SY	200	-	-	182	18
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	-	2650	2650	4720	580
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	20870	1420	1420	21160	2630
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	-	11	11	22	0
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	-	416	416	832	0
606.0300	RIPRAP HEAVY	CY	-	75	70	145	0
612.0206	PIPE UNDERDRAIN UNPERFORATED 6-INCH	LF	-	35	35	70	0
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	-	60	60	112	8
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	-	2	2	4	0
645.0120	GEOTEXTILE FABRIC TYPE HR	SY	-	150	150	300	D
	NON-BID ITEMS						
	PREFORMED FILLER	SIZE				1/2" & 3/4"	

DRAWINGS SHALL NOT BE SCALED.

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

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE FABRIC HR TO THE LIMITS SHOWN ON SHEET I AND ON THE ABUTMENT SHEETS OR AS DIRECTED BY THE ENGINEER

THE EXISTING GROUND LINE SHALL BE THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES" FOR THE ABUTMENTS

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

THIS STRUCTURE WILL REPLACE EXISTING BRIDGE, B-18-0950, A 33-FOOT LONG. SINGLE-SPAN DECK GIRDER BRIDGE SET ON CONCRETE ABUTMENTS

AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL. THE BACKFILL STRUCTURE QUANTITIES ASSUMED A 11/2:1 EXCAVATION SLOPE BEHIND THE

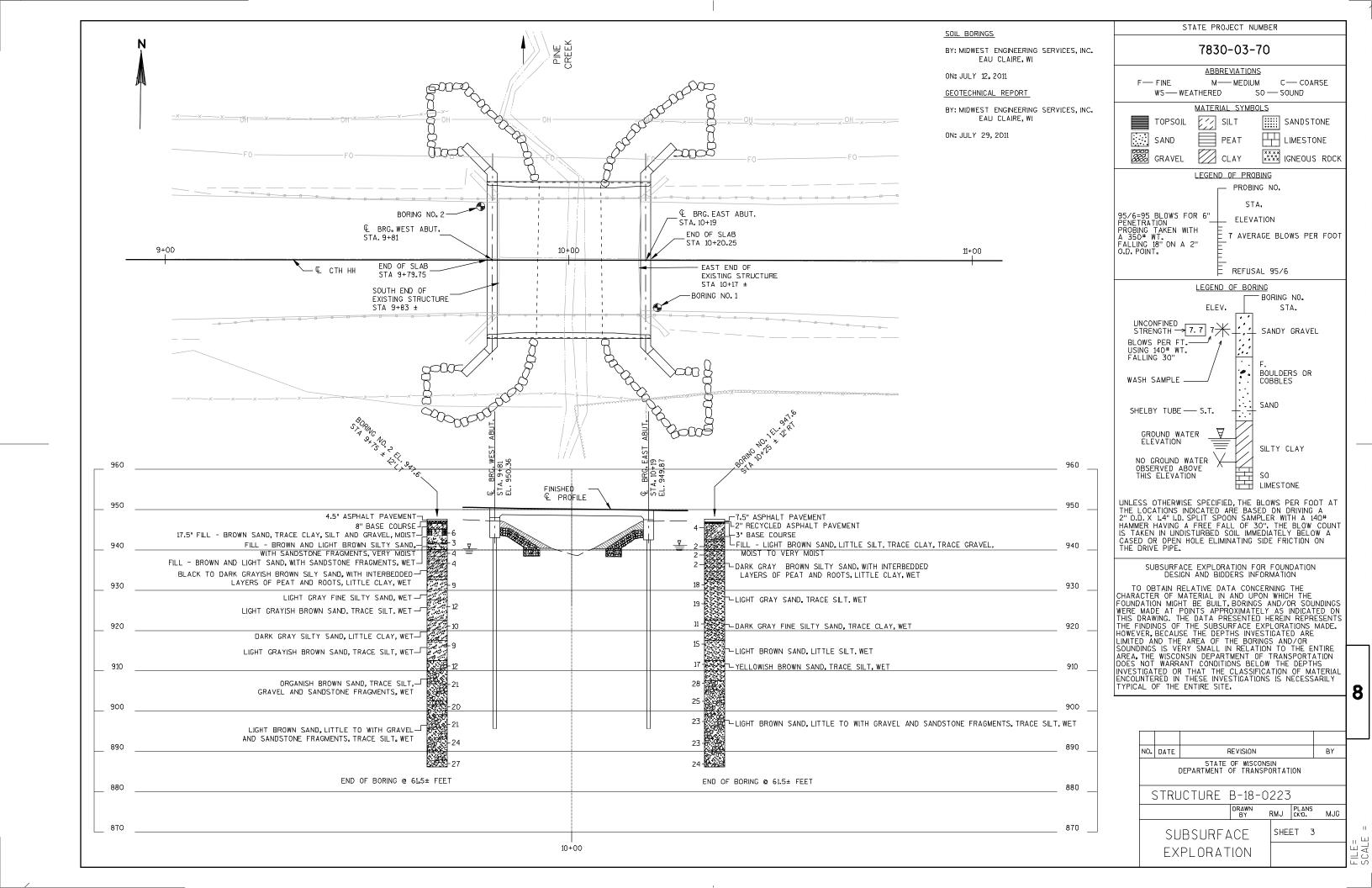
THE FIRST DIGIT OF A THREE DIGIT BAR MARK AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFIES THE BAR SIZE

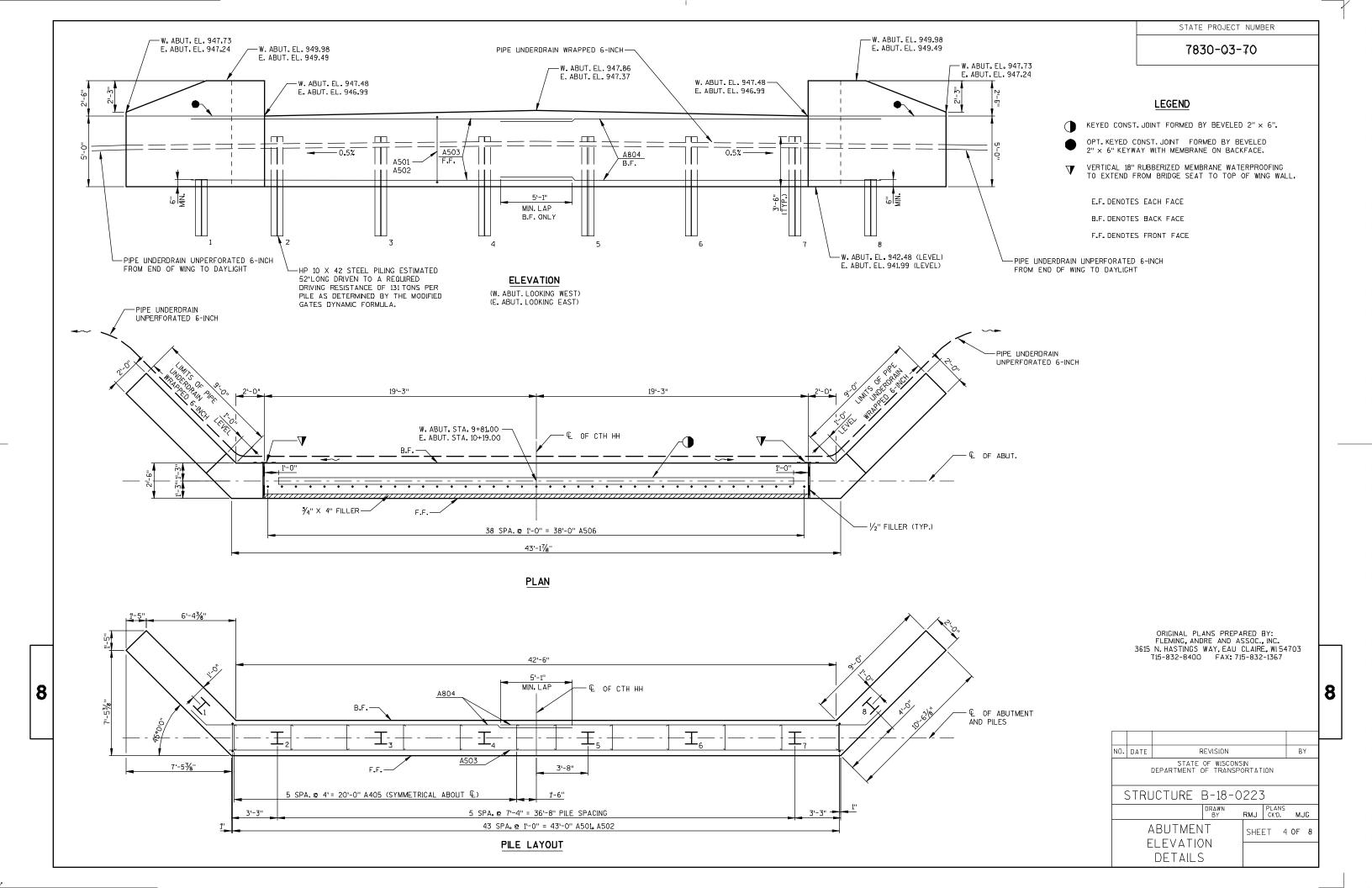
AT ABUTMENTS, CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS

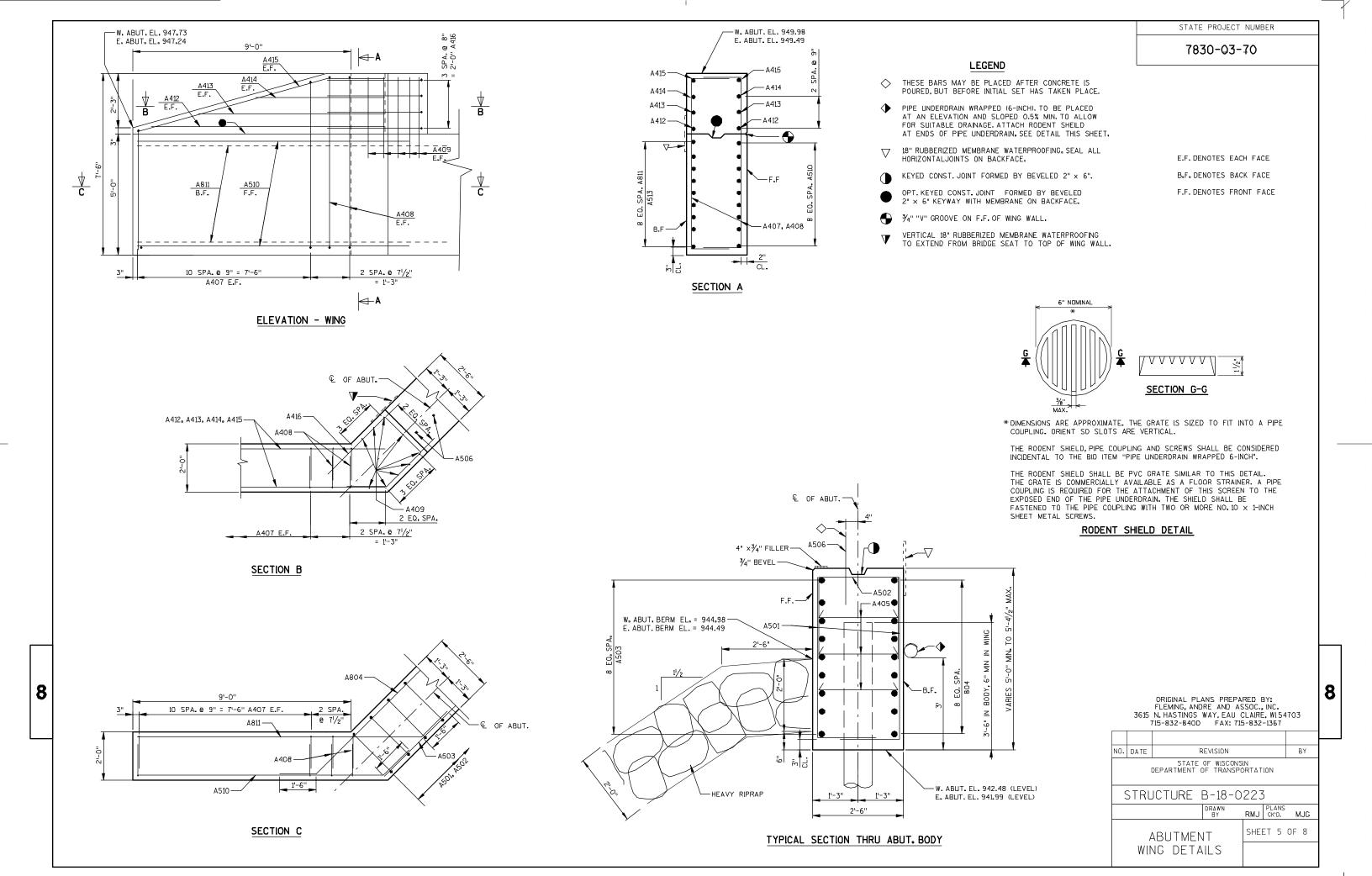
THE GRADATION OF THE STRUCTURE BACKFILL SHALL MEET THE REQUIREMENTS OF SECTION 209.2.2 OF THE STANDARD SPECIFICATIONS FOR GRADE 1 MATERIAL

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

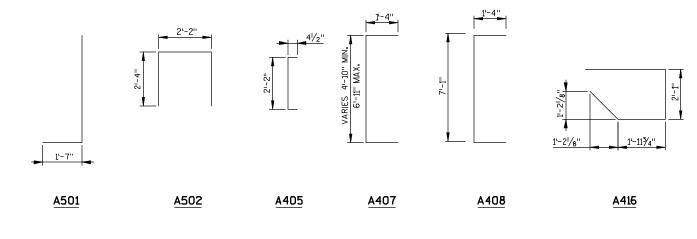
NO.	DATE		REVISION			BY
	I	STAT DEPARTMEN	E OF WISCO T OF TRANS		ION	
	STRL	JCTURE	B-18-	0223)	
			DRAWN BY	RMJ	PLANS CK'D.	MJ
(CROS	SS SE	CTION	SHE	ET 2	
8	& Q	UANTI	TIES			







7830-03-70



DIM. B	
	DIM _o A

DIM. B

<u>LEGEND</u>

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

NOTES

DIMENSIONS ARE OUT TO OUT OF BARS.

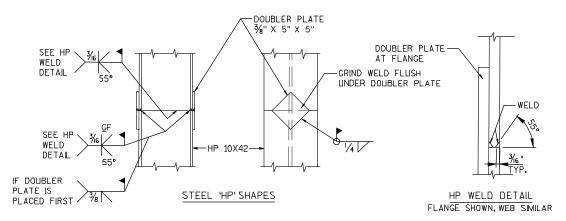
DIM. A A804 1'-03/4" 1'-03/4" 1'-03/4" A510 1'-0¾'' A811 1'-0¾'' 1'-0¾" 0'-83/4" A415 2'-31/4"

MARK

BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY

MARK	NO. REQ	D	LE	NGT	Ή.
A407	4 SERIES ()F 11	7-4	ΤO	9-5



PILE SPLICE DETAIL

BILL OF BARS - EACH ABUTMENT

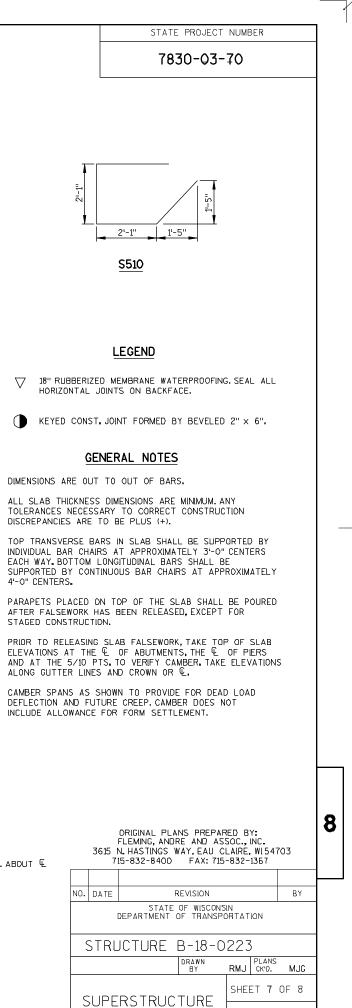
	MARK	NO, REO'D	LE	NG	TH	SERIES	COAT	BENT	LOCATION
	A501	88	5	-	1			Х	BODY VERT.
	A502	44	5	-	7			Х	BODY VERT.
	A503	9	43	-	1				BODY HORIZ.F.F.
	Δ804	18	27	-	5			Х	BODY HORIZ. B.F.
	A405	36	2	-	9			Х	BODY TIES
	A506	39	2	-	0		Х		BODY DOWELS
∅	A407	44	8	-	5	Х	Χ	Χ	WING VERT. E.F.
	Δ408	8	9	-	7		Х	Х	WING VERT. E.F.
	A409	18	3	-	10		Χ		WING VERT. E.F.
	A510	18	11	-	8		Х	Х	WING HORIZ. F.F.
	A811	18	1.3	-	4		Χ	Х	WING HORIZ. B.F.
	Δ412	4	9	-	8		Х		WING HORIZ. E.F.
	A413	4	7	-	8		Х		WING HORIZ. E.F.
	A414	4	5	-	0		Х		WING HORIZ.E.F.
	A415	4	10	-	6		Х	Х	WING DIAG. E.F.
	A416	8	8	-	10		Х	Х	WING HORIZ.

TOTAL	WEIGHT	- COATED	1420 LBS
TOTAL	WEIGHT	- UNCOATED	2650 LBS

ORIGINAL PLANS PREPARED BY: FLEMING, ANDRE AND ASSOC., INC. 3615 N. HASTINCS WAY, EAU CLAIRE, WI 54703 715-832-8400 FAX: 715-832-1367

							L				
0.	DATE	F	EVISION			BY					
	[STATE DEPARTMENT (OF WISCONS OF TRANSPO		ION						
(STRUCTURE B-18-0223										
			DRAWN BY	RMJ	PLANS CK'D.	MJG					
	ABUTMENT BILL OF BARS										
	DIL	L OF B	ARS								

8

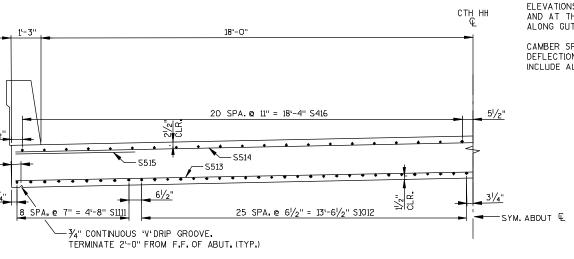


BILL OF BARS - SUPERSTRUCTURE

MIDSPAN OF STRUCTURE

SYM. ABOUT THIS LINE

MARK	NO. REQ'D	LENGTH	COAT	BENT	LOCATION							
S510	78	8-7	Х	Х	SLAB @ ABUT LONGIT.							
S1111	18	40-2	Х		SLAB EDGE BOT LONGIT.							
S1012	52	40-2	Χ		SLAB BOT LONGIT.							
S513	55	38-2	Χ		SLAB BOT TRANS.							
S514	41	38-2	Х		SLAB TOP - TRANS.							
S515	76	5-0	Χ		SLAB EDGE TOP - TRANS.							
S416	42	40-2	Х		SLAB TOP - LONGIT.							
	TOTAL WEIGHT (COATED BARS) - 18,870 LBS											



HALF SECTION THRU BRIDGE

(LOOKING EAST)

ABUT.

\$513

1'-3"

PLAN

S1012 @ 61/2"

20'-3"

-\$510 e 1'-0" CENTERS

4" X ¾" FILLER TO EXTEND BETWEEN EDGES OF SLAB

€ OF WEST ABUT.

►S513 @ 91/2"

20 SPA. @ 1'-0" = 20'-0" S514 18 SPA. @ 1'-0" = 18'-0" S515

-S1111, S1012

€ OF EAST ABUT.

S515 @ 1'-0" →

S514 @ 1'-0" =

-S1111 **0** 7"

TOP STEEL REINFORCEMENT

24 SPA. @ 91/2" = 19'-0" S513

PART LONGITUDINAL SECTION

40'-6" LENGTH OF SLAB

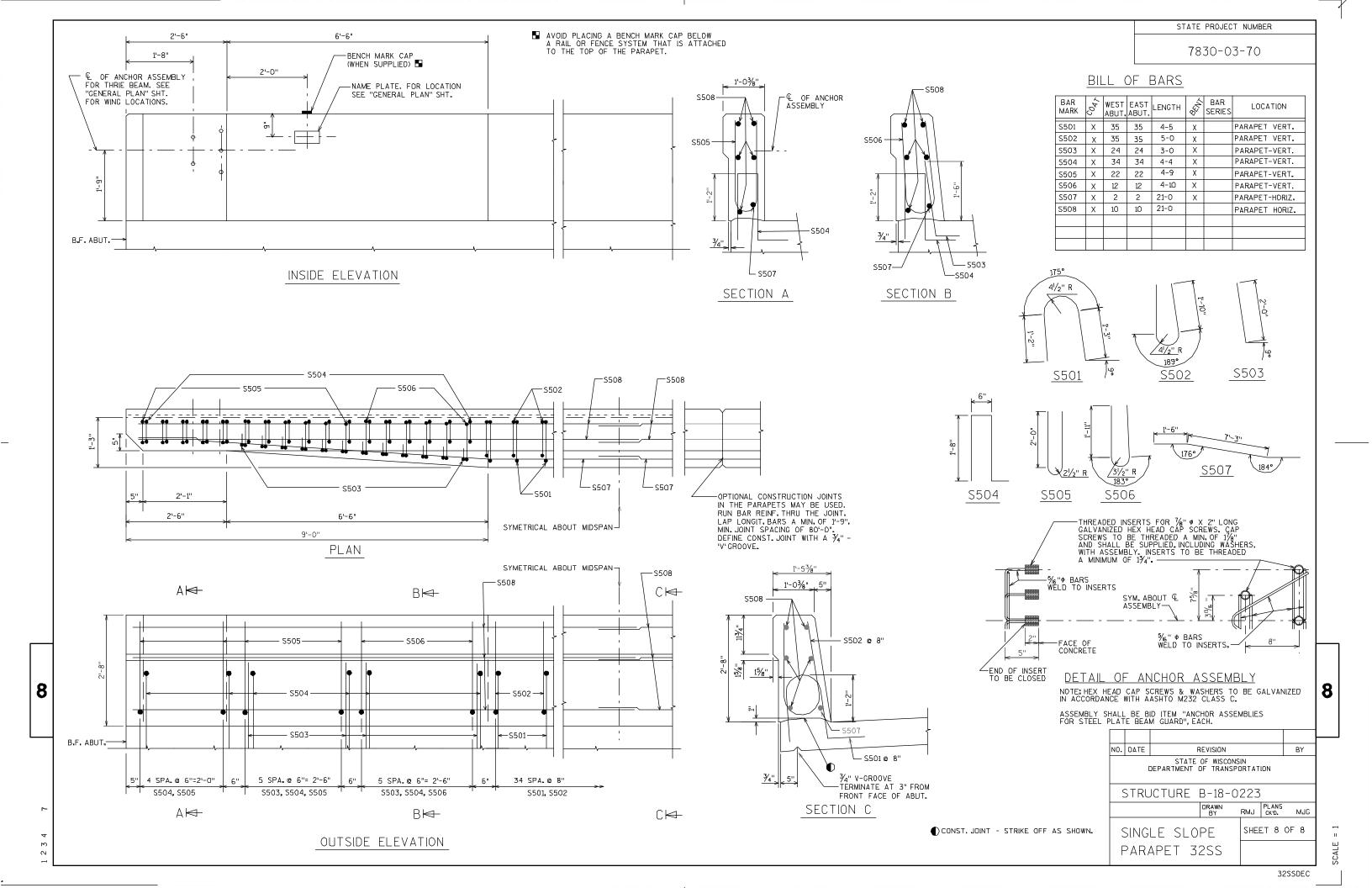
38'-0" SPAN

S416 @ 11"

€ OF CTH HH-

BOT. STEEL REINFORCEMENT

(MEASURED ALONG CTH HH 4)



				AREA (SF)		INCREM	ENTAL VOL (CY) (UNADJ	USTED)	CUMUL	ATIVE VOL (CY)	
STATION	REAL STATION	DISTANCE	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	сит	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXP. FILL	MASS ORD.
						NOTE 1	NOTE 2	NOTE 3		_	NOTE 8
7+00	700		47	9	1	0	0	0	0	0	0
7+39	739	39	48	9	5	68	13	4	68	5	50
7+50	750	11	51	9	5	20	4	2	88	8	64
7+77	777	27	63	9	4	57	9	4	145	13	107
7+89	789	12	67	9	4	29	4	2	174	15	129
8+00	800	11	69	9	4	28	4	2	202	18	150
8+14	814	14	62	9	5	34	5	2	236	20	177
8+27	827	13	55	9	6	28	4	3	264	24	199
8+39	839	12	36	0	8	20	2	3	284	28	213
8+50	850	11	23	0	11	12	0	4	296	33	220
8+64	864	14	7	0	34	8	0	12	304	48	213
8+89	889	25	4	0	67	5	0	47	309	106	159
9+00	900	11	4	0	80	2	0	30	311	144	123
9+14	914	14	0	0	85	1	0	43	312	198	71
9+50	950	36	0	0	120	0	0	137	312	369	-100
9+74	974	24	0	0	189	0	0	137	312	540	-272
9+79	979	5	10	0	142	1	0	31	313	579	-311

COLUMN TOTALS

	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
STATION			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	СПТ	SALVAGED/UNUSABLE PAVEMENT	FILL	CUT	EXP. FILL	MASS ORD.
						NOTE 1	MATERIAL NOTE 2	NOTE 3	1.00	1.25	NOTE 8
10+21	1021		0	0	59	0	0	0	NOTE 1	0	0
10+26	1026	5	0	0	38	0	0	9	0	11	-11
10+50	1050	24	0	0	142	0	0	80	ō	111	-111
10+85	1085	35	0	0	121	0	0	170	0	324	-324
11+00	1100	15	2	0	41	1	0	45	1	380	-379
11+10	1110	10	8	0	30	2	0	13	3	396	-394
11+35	1135	25	19	9	71	13	4	47	16	455	-444
11+50	1150	15	25	9	42	12	5	31	28	494	-475
11+60	1160	10	29	9	24	10	3	12	38	509	-483
11+73	1173	13	34	9	19	15	4	10	53	521	-484
11+85	1185	12	38	9	16	16	4	8	69	531	-482
12+00	1200	15	42	9	15	22	5	9	91	543	-476
12+10	1210	10	53	9	7	18	3	4	109	548	-466
12+22	1222	12	62	9	6	26	4	3	135	551	-449
12+50	1250	28	82	9	5	75	9	6	210	559	-391
12+60	1260	10	94	9	0	32	3	1	242	560	-362
13+00	1300	40	53	9	2	108	13	2	350	563	-270
				COLUMN TO	ΓALS	350	57	450			

1 - Cut	Cut includes Salvaged/Unusable Pavement material			
2 - Salvaged/Unusable Pavement Material	This does not show up in cross sections			
3 - Fill	Does not include Unusable Pavement Exc volume			
4 - Expanded Marsh Backfill	Will be backfilled with Granular Backfill (or Cut, or Borrow)	Note 4 - Select one based on input dialog selection		
5 - Expanded EBS	Will be backfilled with Granular Backfill (or Cut, or Borrow)	Note 5 - Select one based on Input dialog selection		
6 - Reduced Marsh in Fill	Reduced Marsh Excavation that can be used in Fill	Note 6 - If excavated Marsh can be used in Fill		
7 - Reduced EBS in Fill	Reduced EBS Excavation that can be used in Fill	Note 7 - If excavated EBS can be used in Fill		
8 - Mass Ordinate	If Marsh or EBS to be backfilled with Cut or Borrow: ² (Cut + Marsh Exc + EBS) - ((Fill - Reduced Marsh in Fill) - (Reduced EBS in Fill) - Expanded Rock) * Fill Factor) ³	Note 8 - Select one based on mass haulinput dialog selection. EBS and Marsh Exc used outside 1:1in fill slopes		
8 - Mass Ordinate	If Marsh and EBS to be backfilled with Granular: ² (Cut + EBS + Marsh Exc) - ((Fill - (Reduced Marsh in Fill) - (Reduced EBS in Fill) - (Expanded Rock)) * Fill Factor)) ³	EBS and Marsh Exc used outside 1:1in fill slopes		
8 - Mass Ordinate	[Factor)] ³	Marsh and EBS are not usable outside the 1:1 slopes		
8 - Mass Ordinate	If Marsh and EBS to be backfilled with Cut or Borrow: ² (Cut) - ((Fill - Expanded Rock) * FillFactor)) ³	Marsh and EBS are not usable outside the 1:1 slopes		

PROJECT NO: 7830-03-70

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HWY: CTH HH

COUNTY: EAU CLAIRE

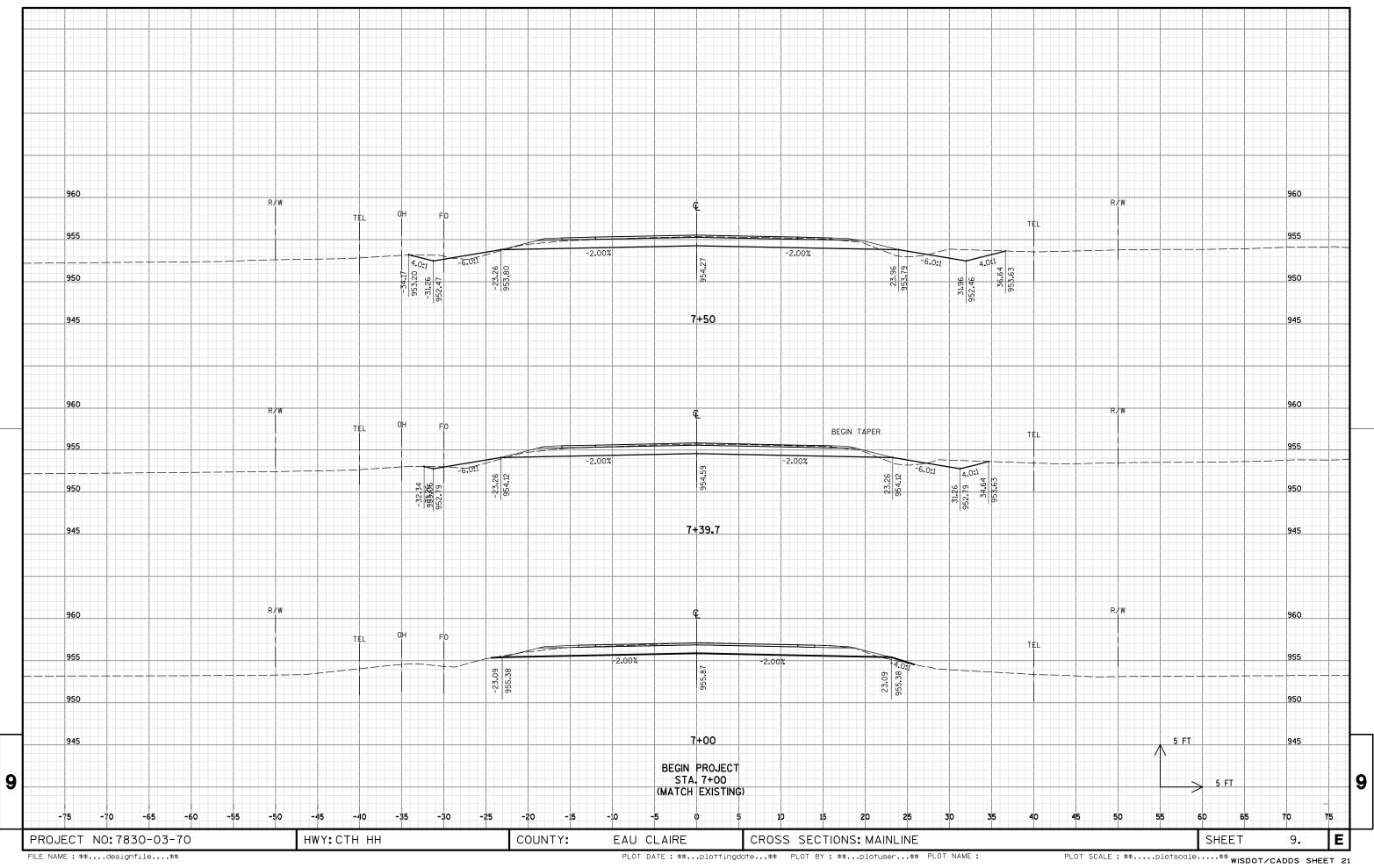
EARTHWORK

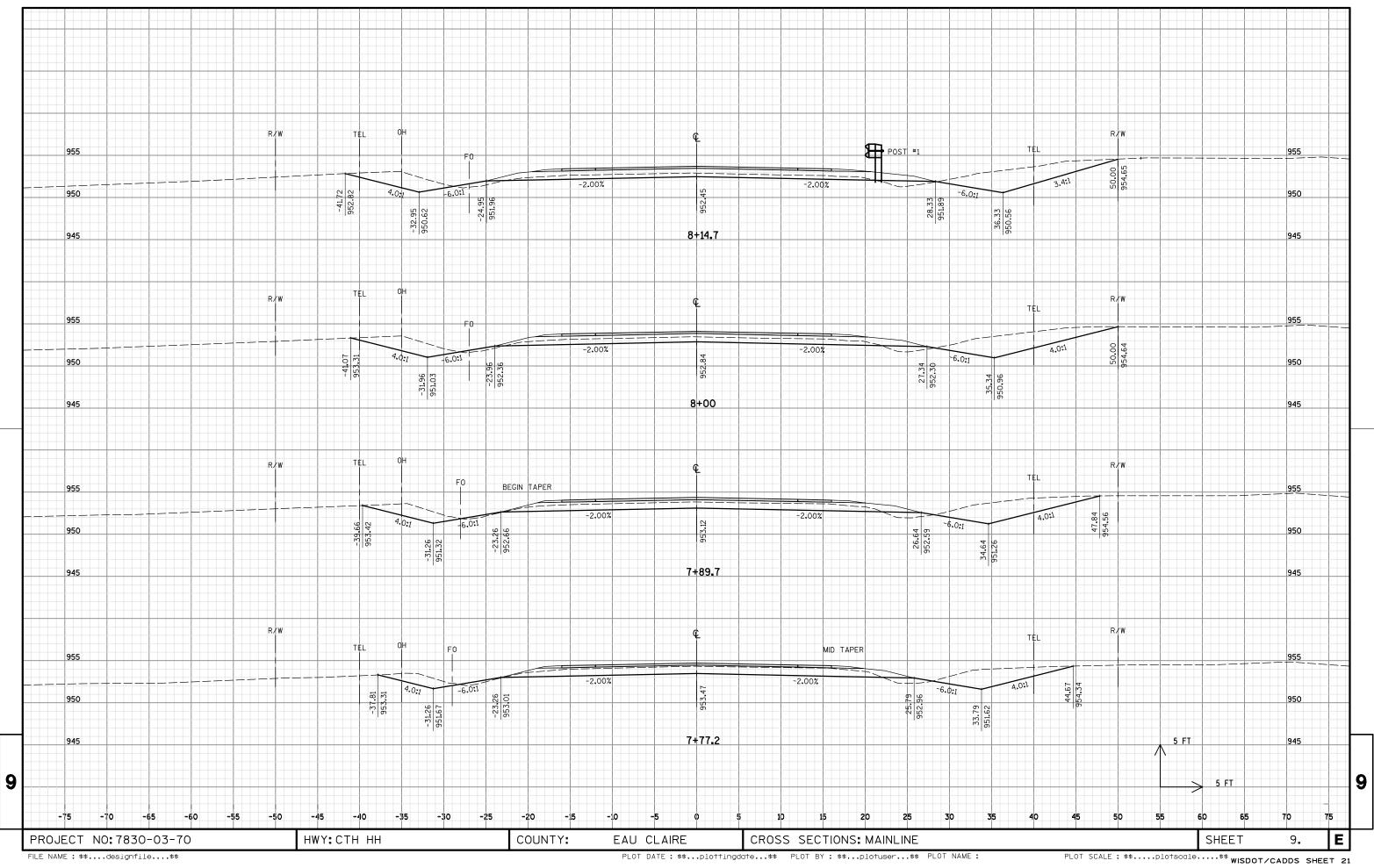
PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

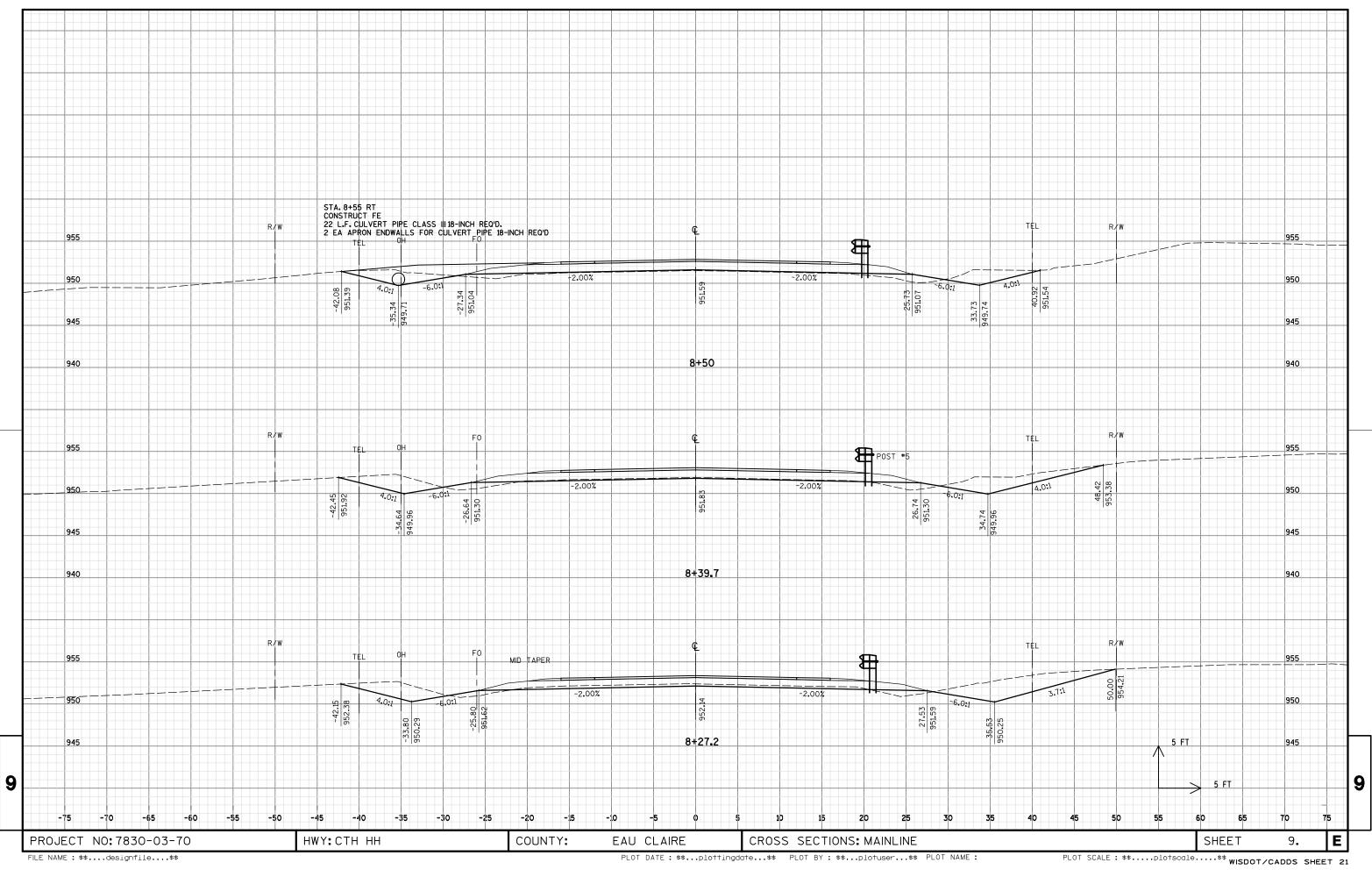
463

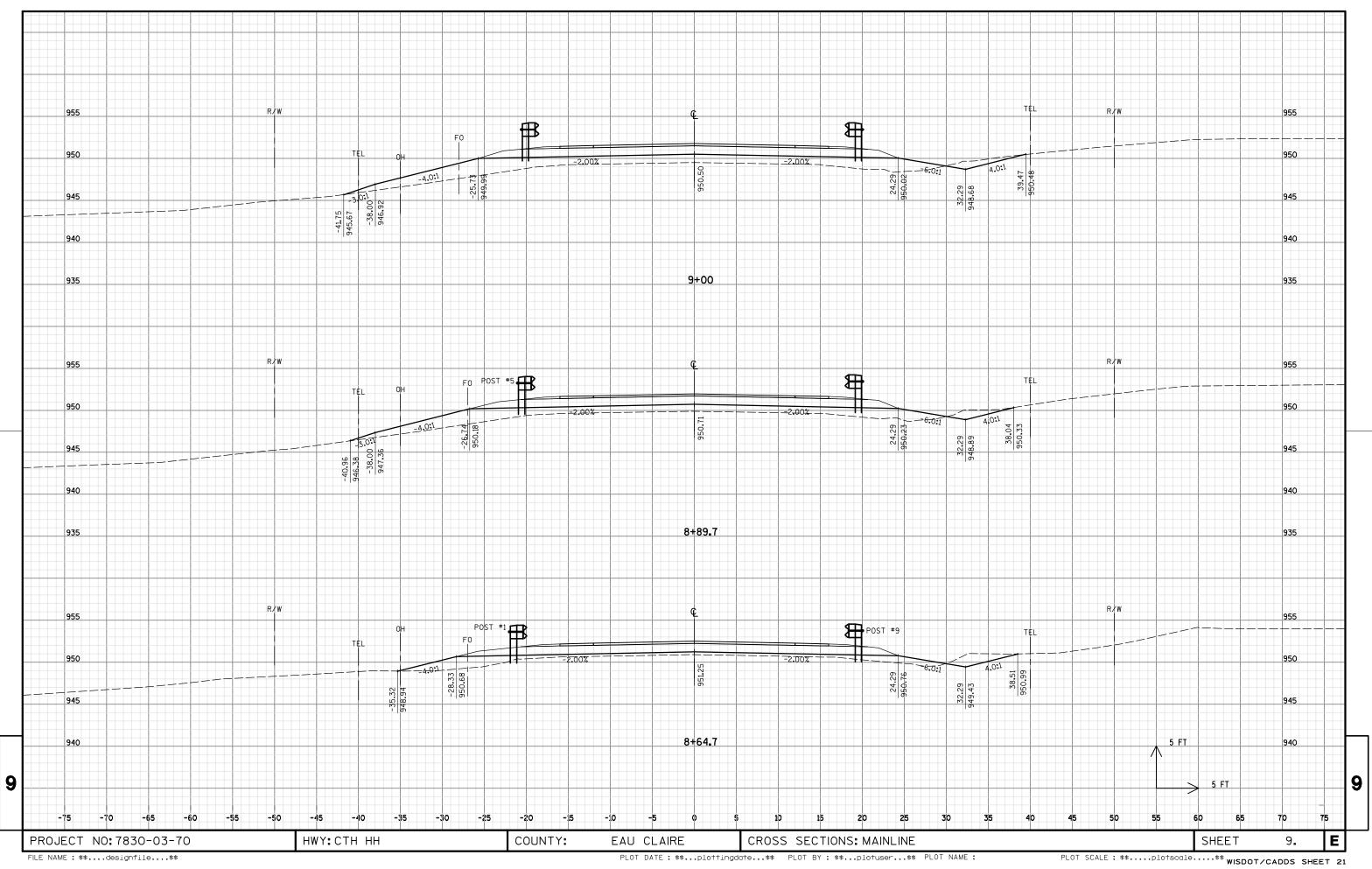
PLOT SCALE : 1 in : 100 ft

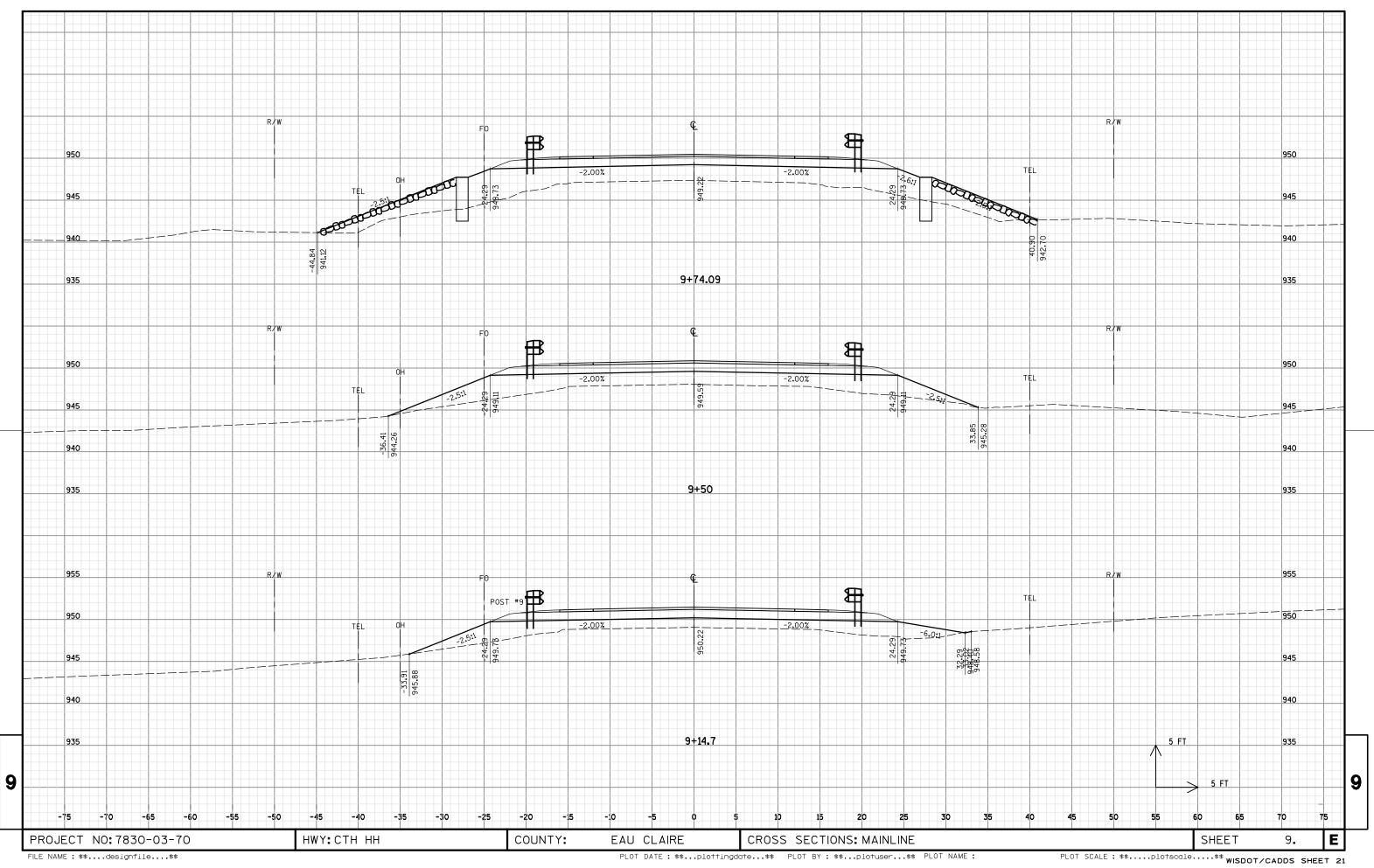
E SHEET

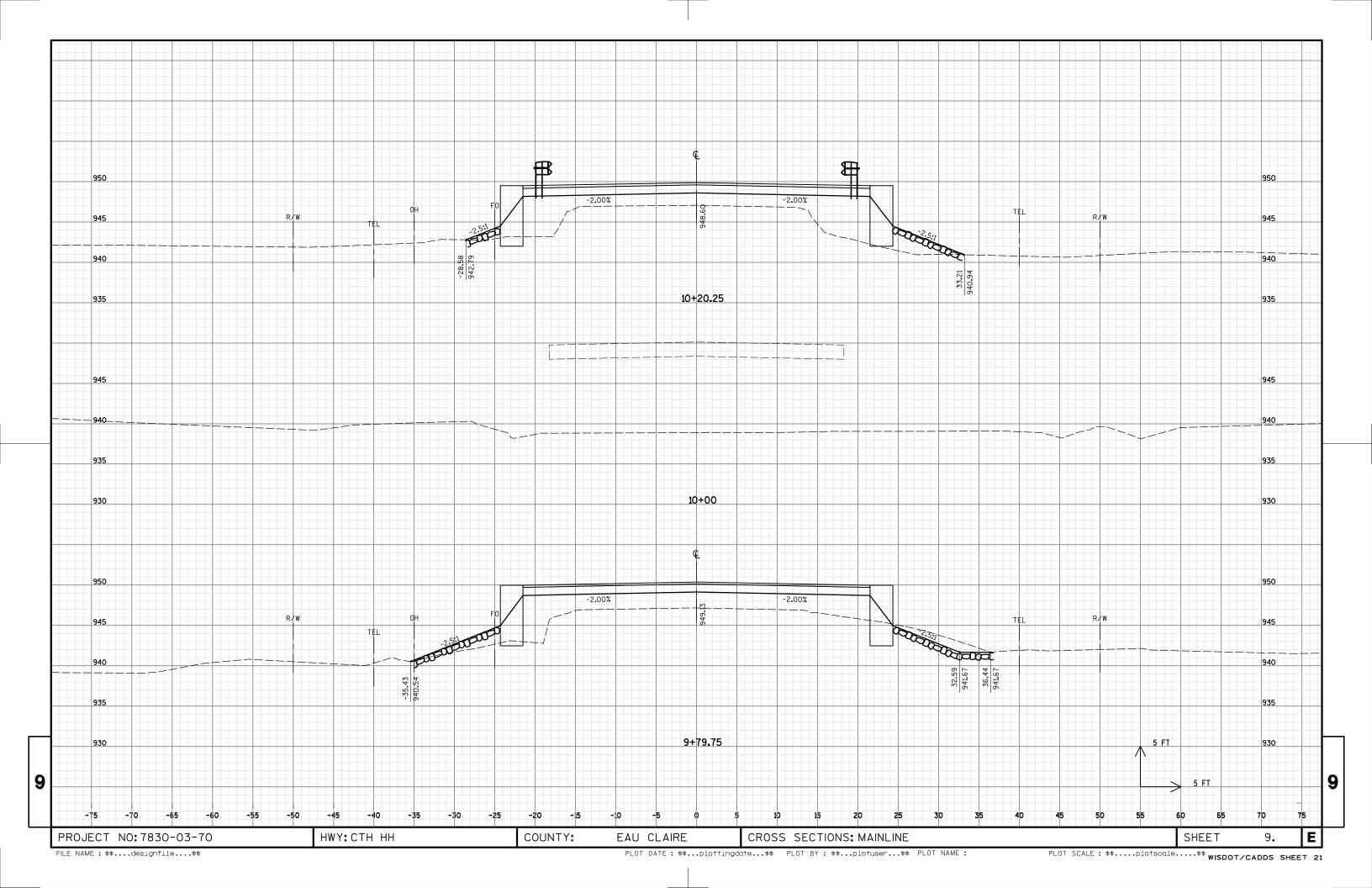


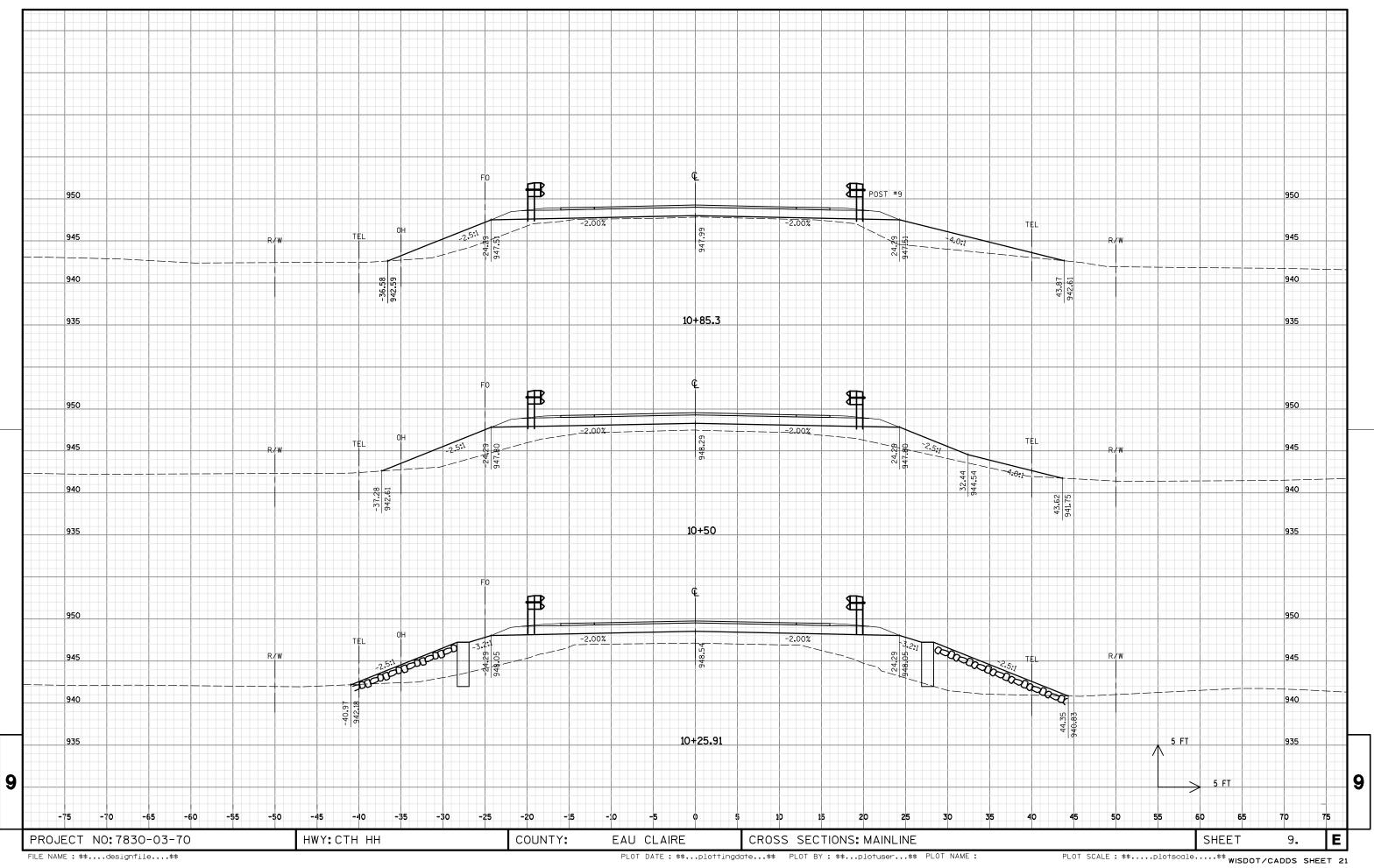


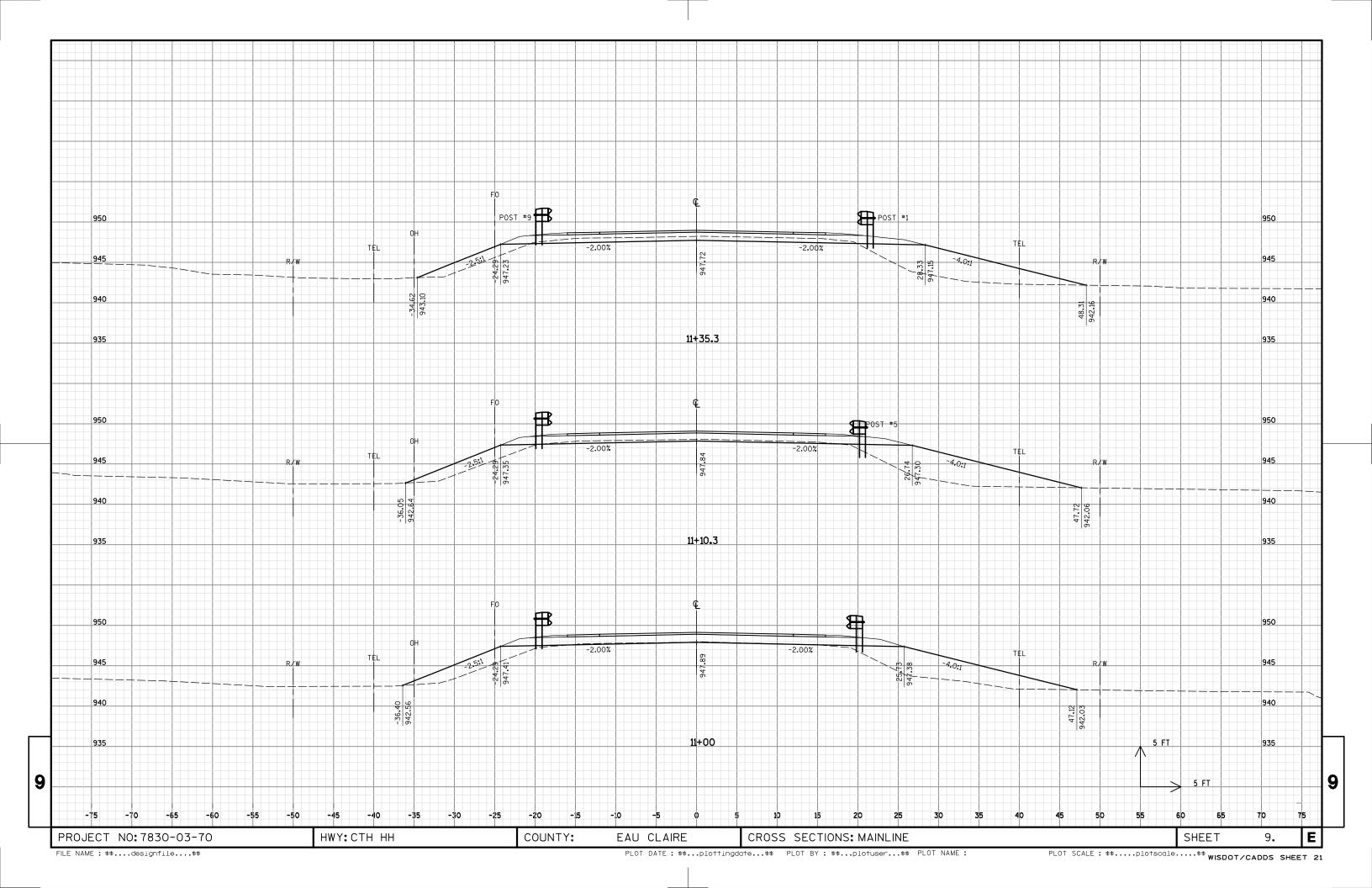


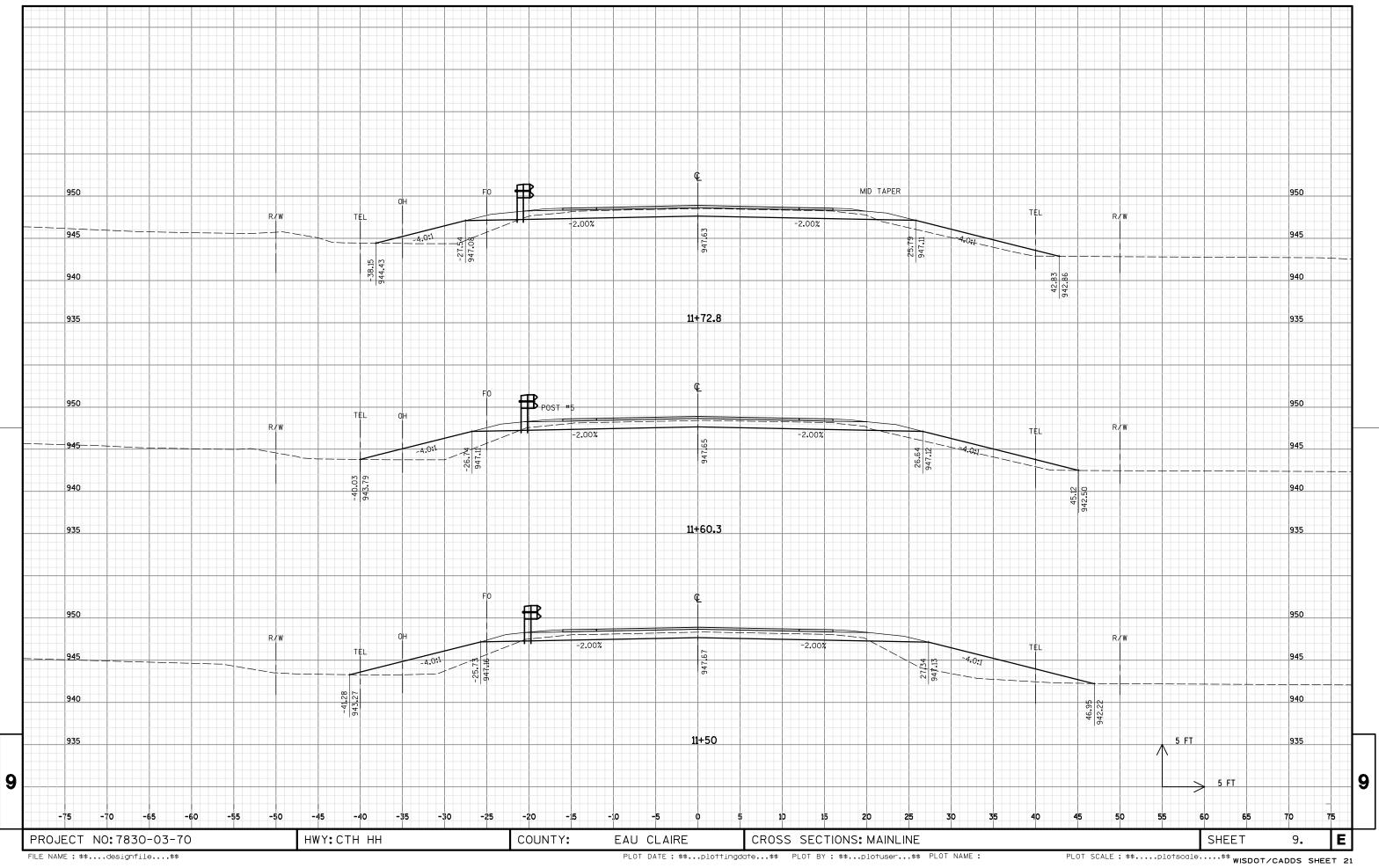


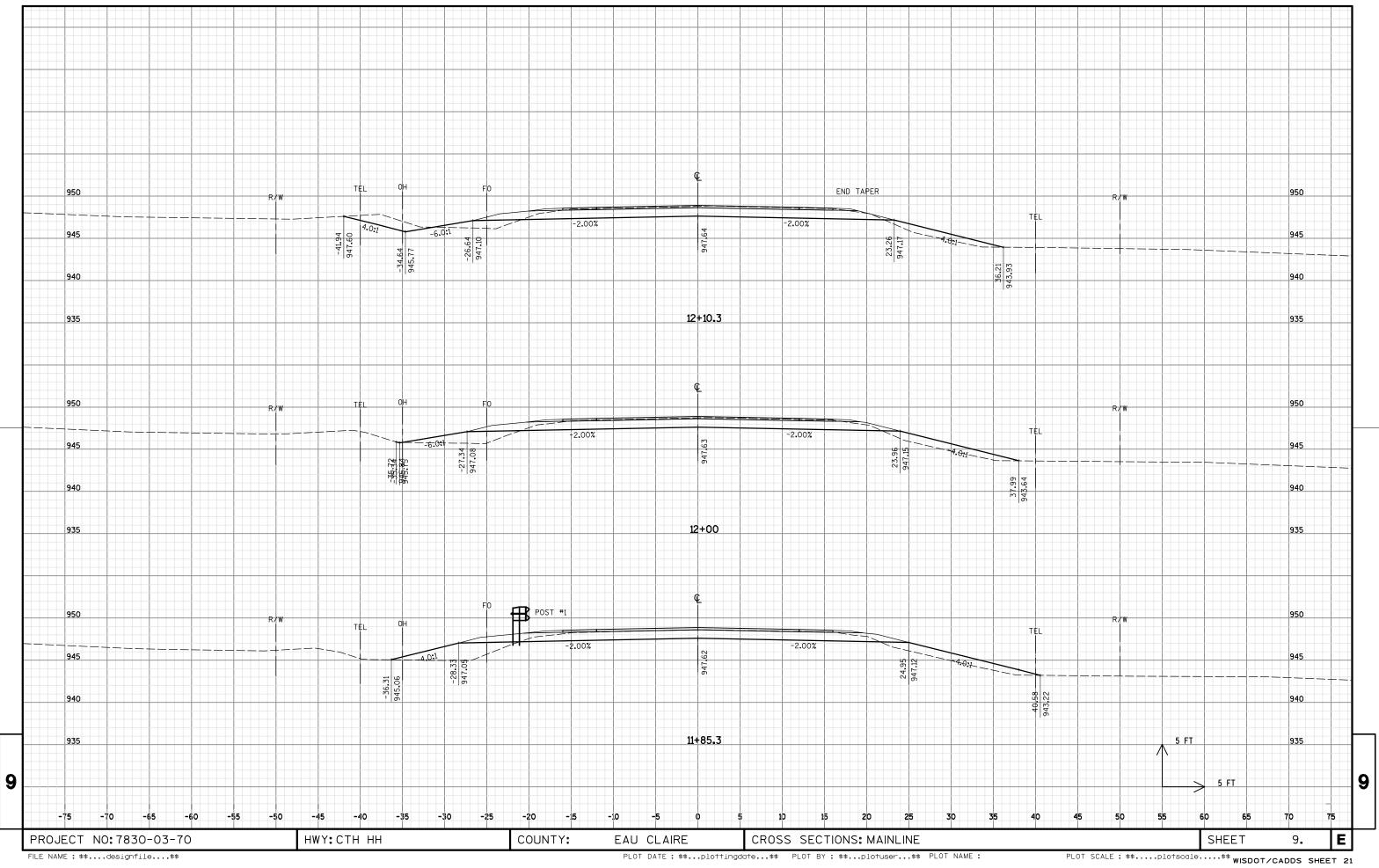


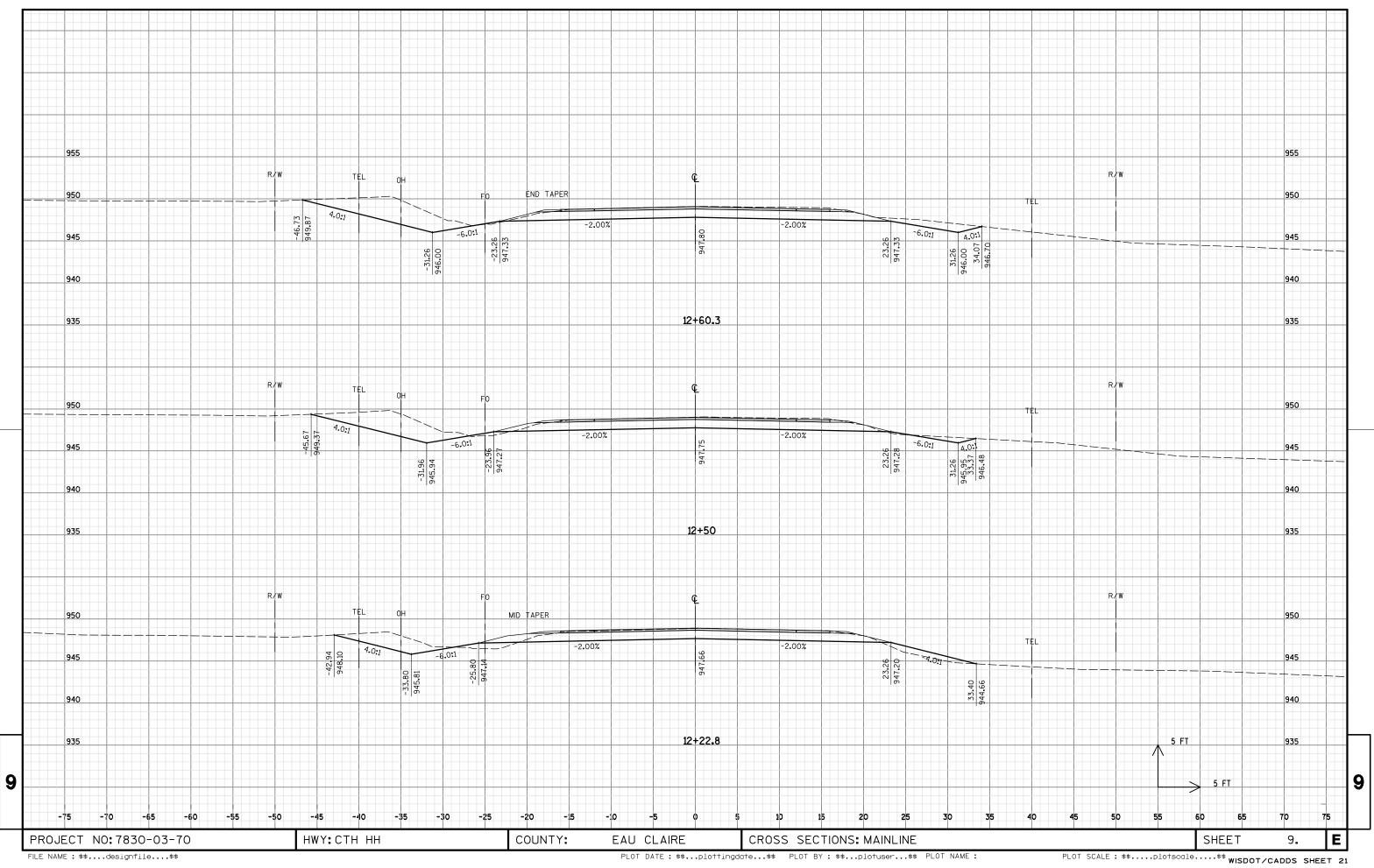


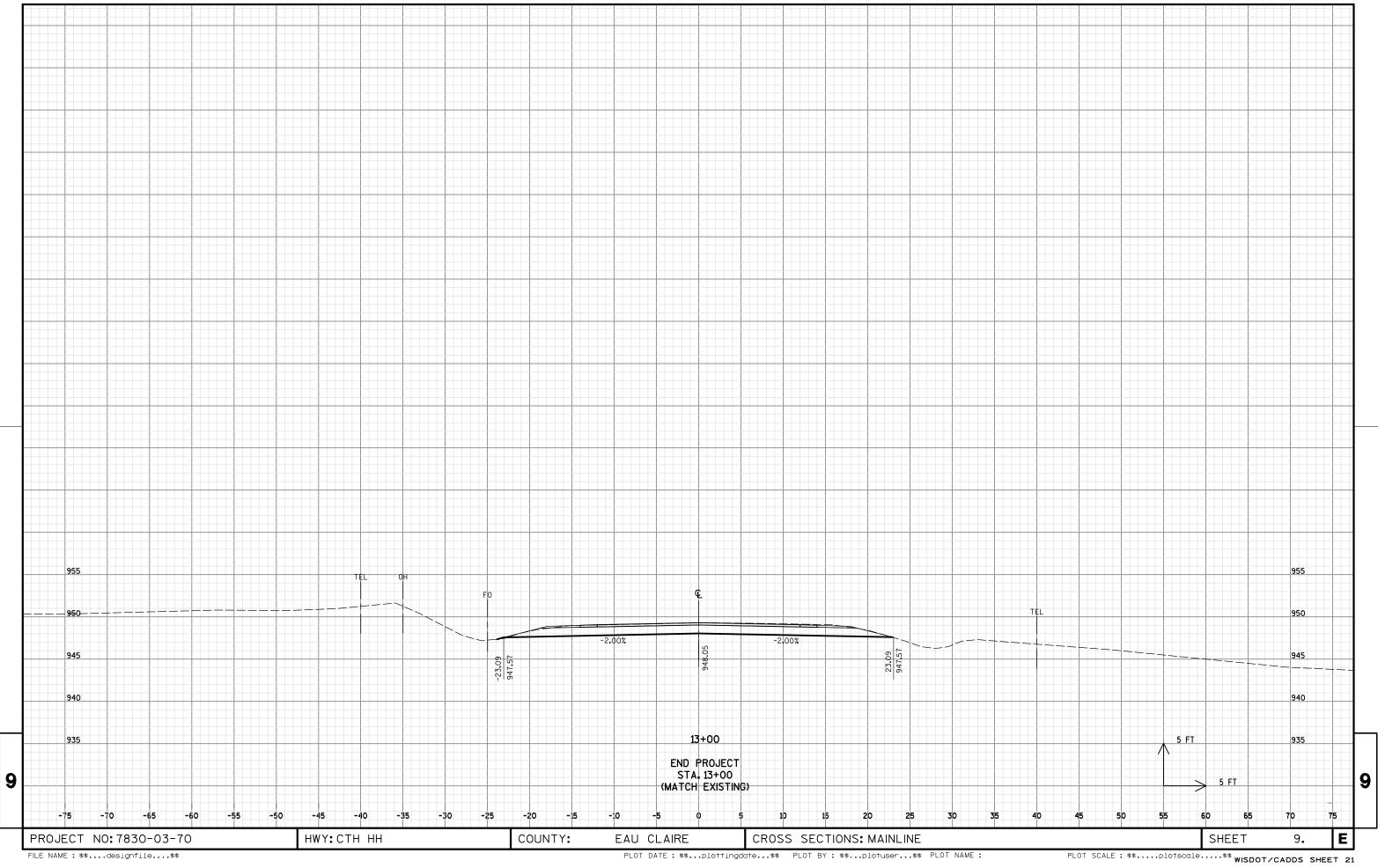












Notes



Wisconsin Department of Transportation

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