#### MAY 2014

#### ORDER OF SHEETS

Section No. 1 Title Typical Sections and Details Estimate of Quantities

Miscellaneous Quantities

Right of Way Plat Plan and Profile Section No. 5

Standard Detail Drawings Section No. 6

Sign Plates Section No. 7 Section No. 8 Structure Plans

Computer Earthwork Data Section No. 9

Section No. 9 Cross Sections

TOTAL SHEETS = 74

= 328,500

#### DESIGN DESIGNATION

ESALS

(2034) = 2300A.A.D.T. D.H.V. = 324 D.D. = 60/40 = 6.1 DESIGN SPEED = 55 MPH

#### CONVENTIONAL SYMBOLS

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

WOODED OR SHRUB AREA

**PROFILE** GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH GRADE ELEVATION

CULVERT (Profile View)

UTILITIES ELECTRIC FIBER OPTIC GAS SANITARY SEWER STORM SEWER

TELEPHONE WATER UTILITY PEDESTAL POWER POLE

4

TELEPHONE POLE

## STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

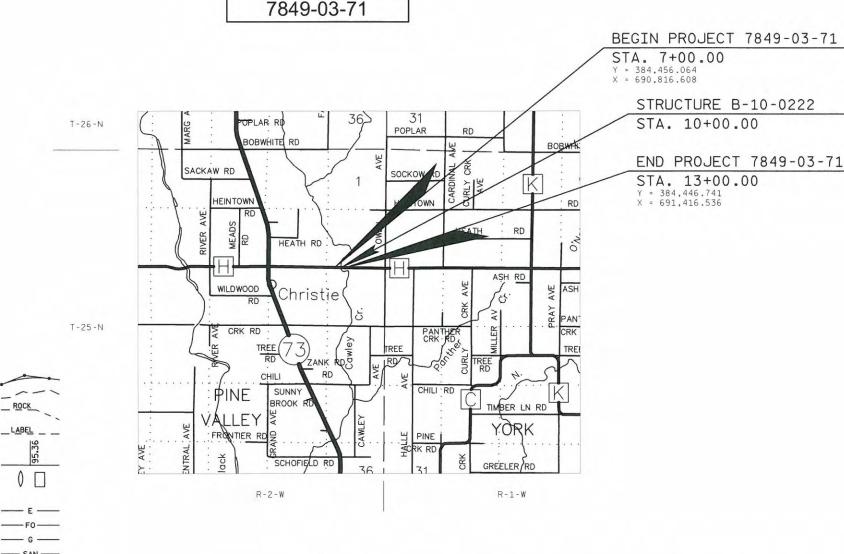
PLAN OF PROPOSED IMPROVEMENT

# **STH 73 - CTH K**

**CAWLEY CREEK BRIDGE B-10-0222** 

## CTH H **CLARK COUNTY**

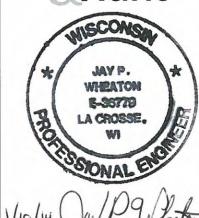
STATE PROJECT NUMBER



FEDERAL PROJECT STATE PROJECT **PROJECT** CONTRACT 7849-03-71 WISC 2014211

ACCEPTED FOR

DATE: 12-17-13 Round of Andre



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY Surveyor Designer

MEAD & HUNT MEAD & HUNT

Consultant C.O. Examiner

APPROVED FOR THE DEPARTMENT

LAYOUT

TOTAL NET LENGTH OF CENTERLINE = 0.093 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY

COORDINATES, CLARK COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID

DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

KNIGHT E/A, INC.

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

WHEN THE QUANTITY OF BASE AGGREGATE OR HMA PAVEMAENT TYPE E-1 IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

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

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.

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

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

THE LOCATION OF ALL DRIVEWAYS WILL BE DETERMINED BY THE ENGINEER.

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

5-INCH HMA PAVEMENT E-1 SHALL BE CONSTRUCTED WITH A 2-INCH UPPER LAYER AND A 3-INCH LOWER LAYER.

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

EXISTING PIPE CULVERT SIZES SHOWN ARE APPROXIMATE AND THE CONTRACTOR SHALL BASE ITS BID ON ACTUAL FIELD CONDITIONS.

SHRINKAGE IS ESTIMATED AT 25%.

#### STANDARD ABBREVIATIONS

NUMBER AVERAGE DAILY TRAFFIC POINT OF INTERSECTION PΙ ASPH ASPHALTIC PROPERTY LINE BENCH MARK RIGHT-HAND FORWARD RHF CENTERLINE RIGHT HUNDREDWEIGHT CWT RIGHT-OF-WAY CY CUBIC YARD SQUARE FOOT DHV DESIGN HOURLY VOLUME SHLDR SHOULDER DRIVEWAY STA STATION ELEVATION SY SQUARE YARD EXC EXCAVATION TRUCKS (PERCENT OF) FT FOOT TEMPORARY LIMITED EASEMENT FOOTING FTG TYPICAL LB POUND VAR VARIABLE LF LINEAR FOOT VERTICAL CURVE LEFT-HAND FORWARD VERTICAL POINT OF CURVE LUMP SUM VERTICAL POINT OF INTERSECTION VPI LEFT VERTICAL POINT OF TANGENCY

CONSULTANT CONTACT

MEAD & HUNT, INC. 750 NORTH THIRD STREET LA CROSSE, WI 54601 ATTN: JAY WHEATON, P.E. TELEPHONE: 608-784-6040

E-MAIL: JAY.WHEATON@MEADHUNT.COM

DNR LIAISON
DEPARTMENT OF NATURAL RESOURCES DNR SERVICE CENTER 473 GRIFFITH DRIVE WISCONSIN RAPIDS, WI 54494 ATTN: MARC HERSHFIELD TELEPHONE: 715-421-7867 E-MAIL: MARC.HERSHFIELD@WISCONSIN.GOV

CLARK COUNTY CLARK COUNTY HIGHWAY DEPARTMENT 801 CLAY STREET NEILLSVILLE, WI 54456 ATTN: RANDY ANDERSON TELEPHONE: 715-743-3680 E-MAIL: RANDY.ANDERSON@CO.CLARK.WI.US

UTILITY CONTACTS

\*CLARK ELECTRIC CO-OP ELECTRIC ATTN: RICK SUDA P.O. BOX 190 GREENWOOD, WI 54437 TELEPHONE: 715-267-6188 E-MAIL: RSDUDA@CECCOOP.COM \*TDS\_TELCOM TELEPHONE ATTN: STEVE JAKUBIEC 10 COLLEGE AVENUE, SUITE 218A APPLETON, WI 54911 TELEPHONE: 920-882-4166 MOBILE: 920-562-7221 E-MAIL: STEVE.JAKUBIEC@TDSTELECOM.COM

\* Denotes Diggers Hotline Member

ORDER OF SECTION 2 SHEETS

TYPICAL SECTIONS DETOUR ROUTE DETOUR SIGNING AND TRAFFIC CONTROL DETAILS ALIGNMENTS



PROJECT NO: 7849-03-71 HWY: CTH H COUNTY: CLARK

GENERAL NOTES

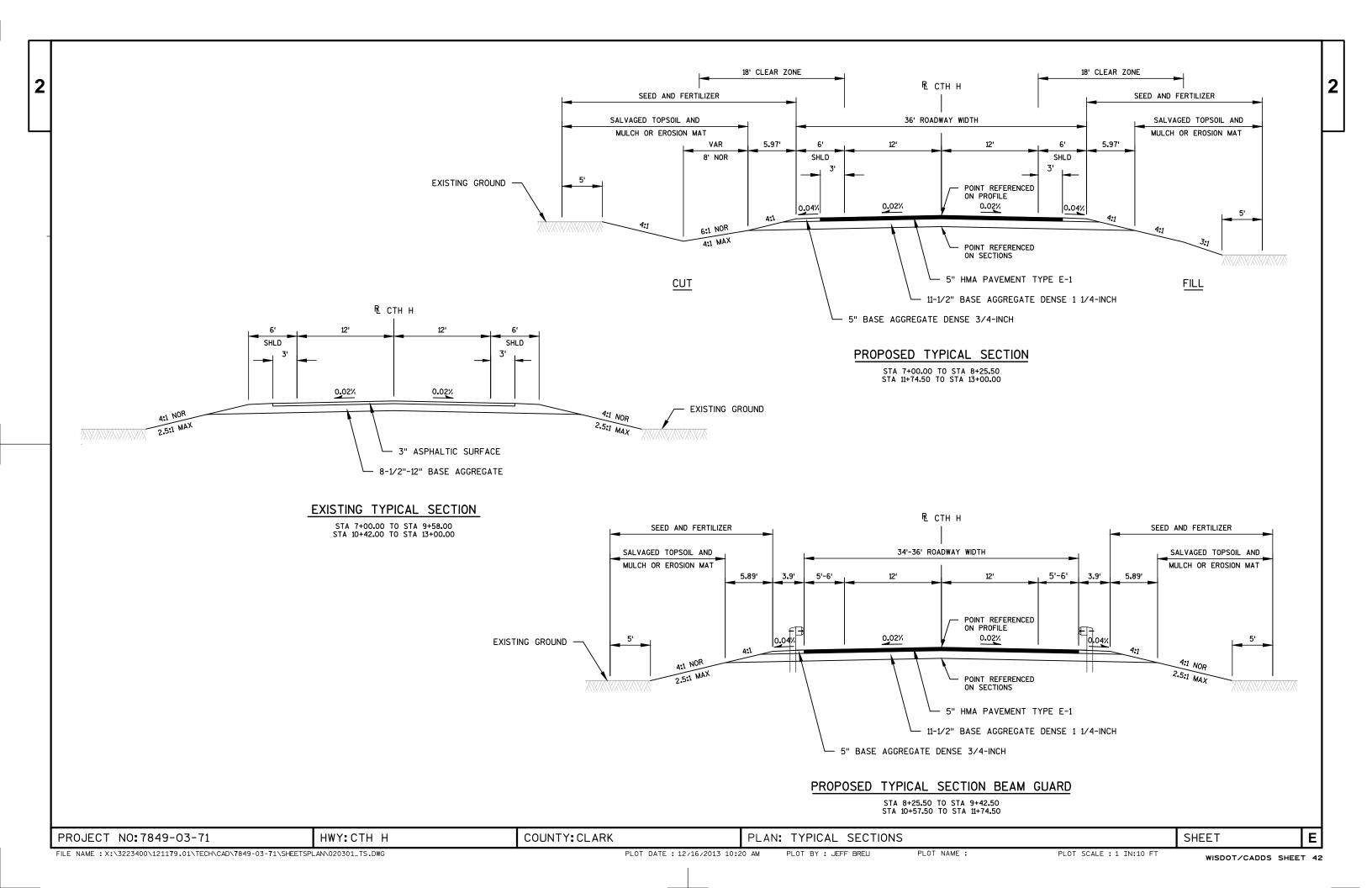
PLOT BY : JEFF BREU

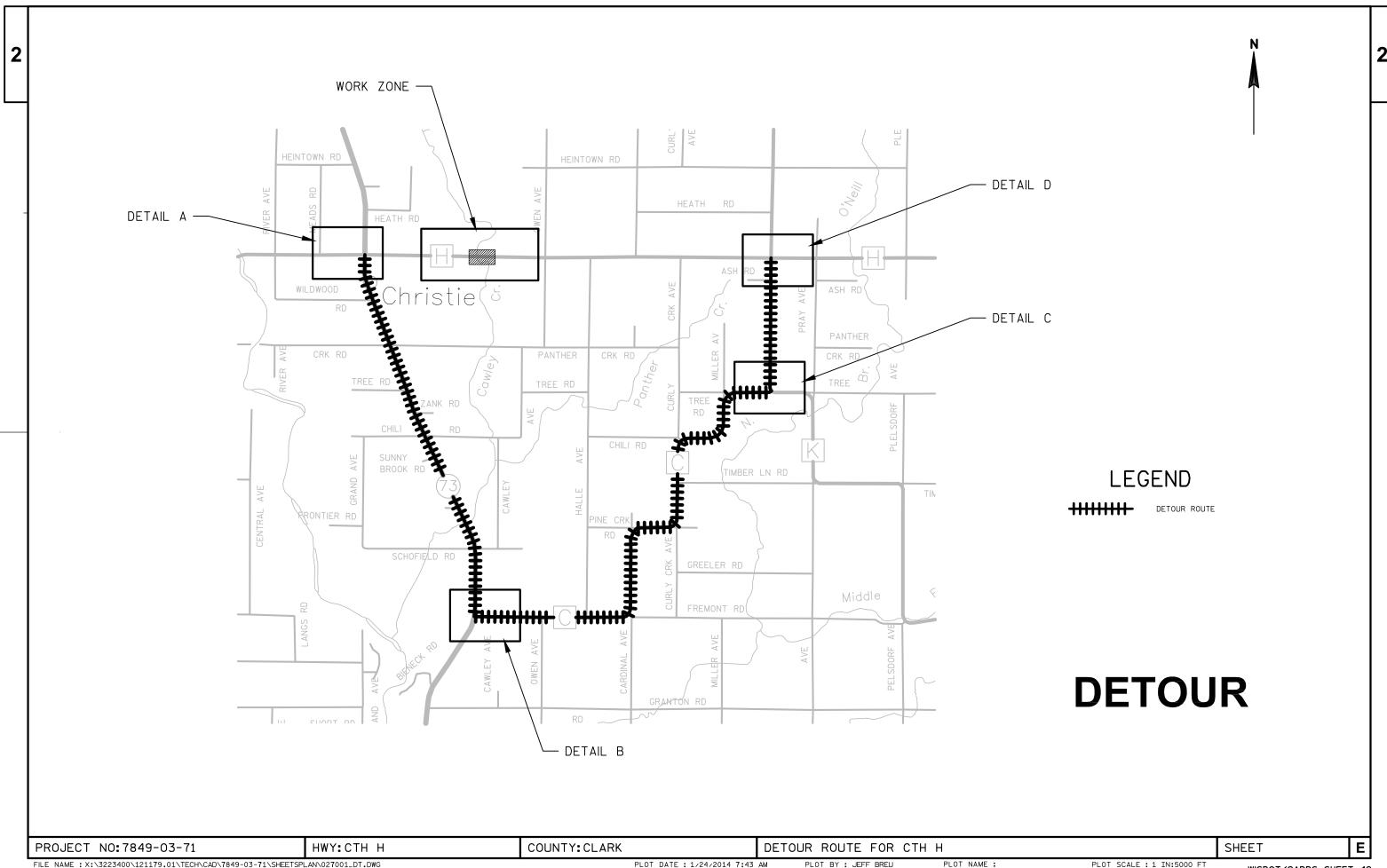
PLOT SCALE : 1 IN:100 FT

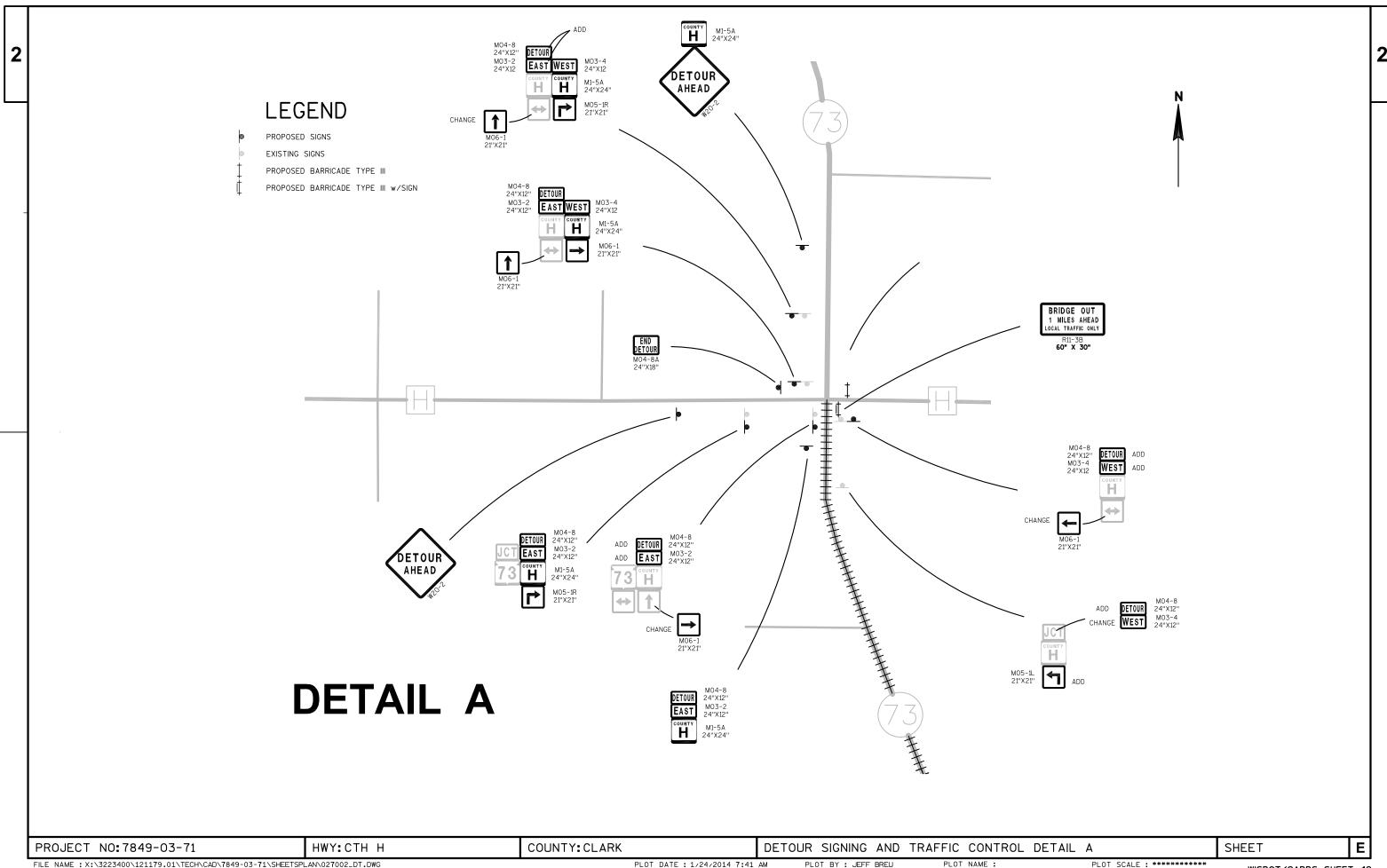
WISDOT/CADDS SHEET 42

Ε

SHEET





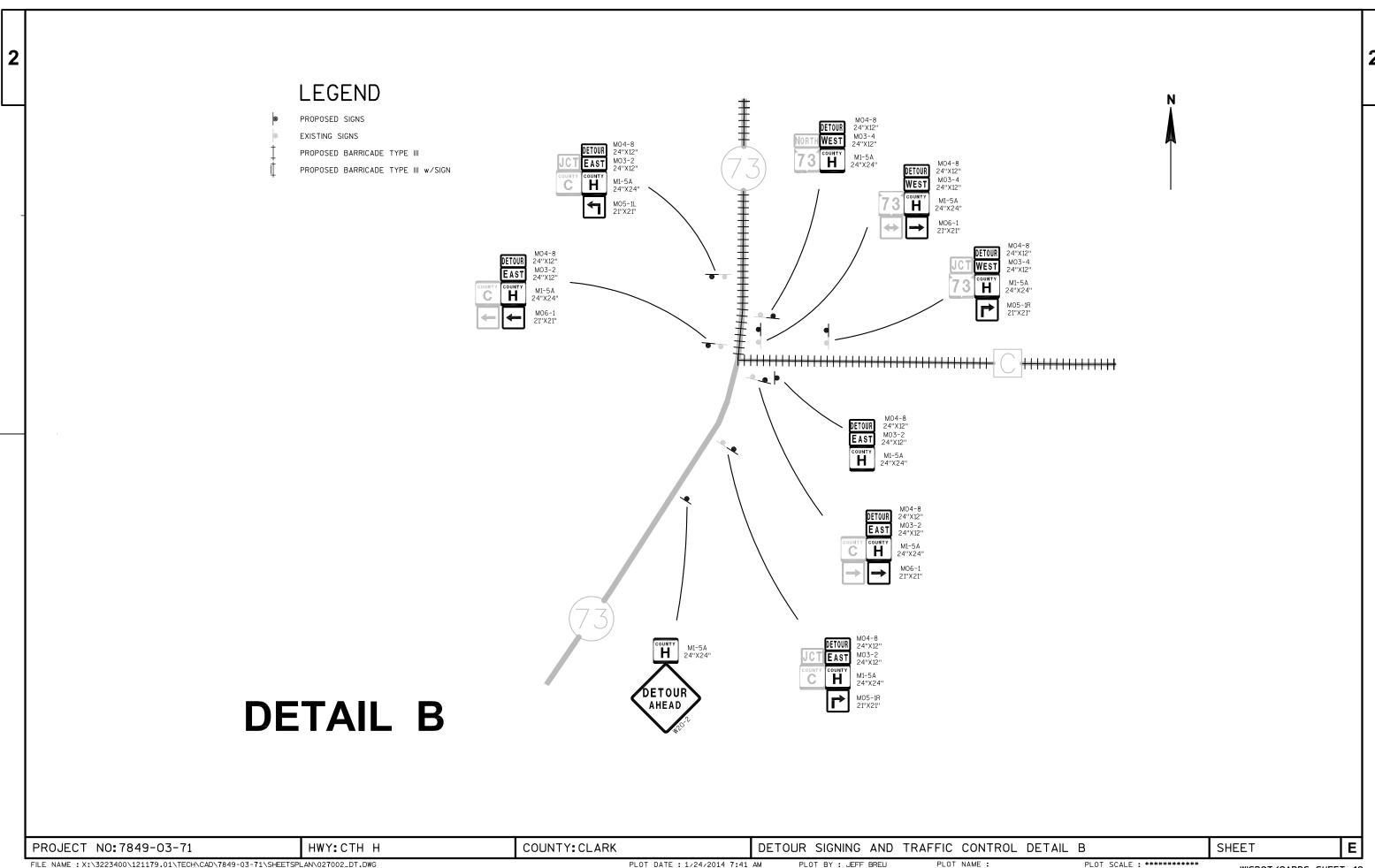


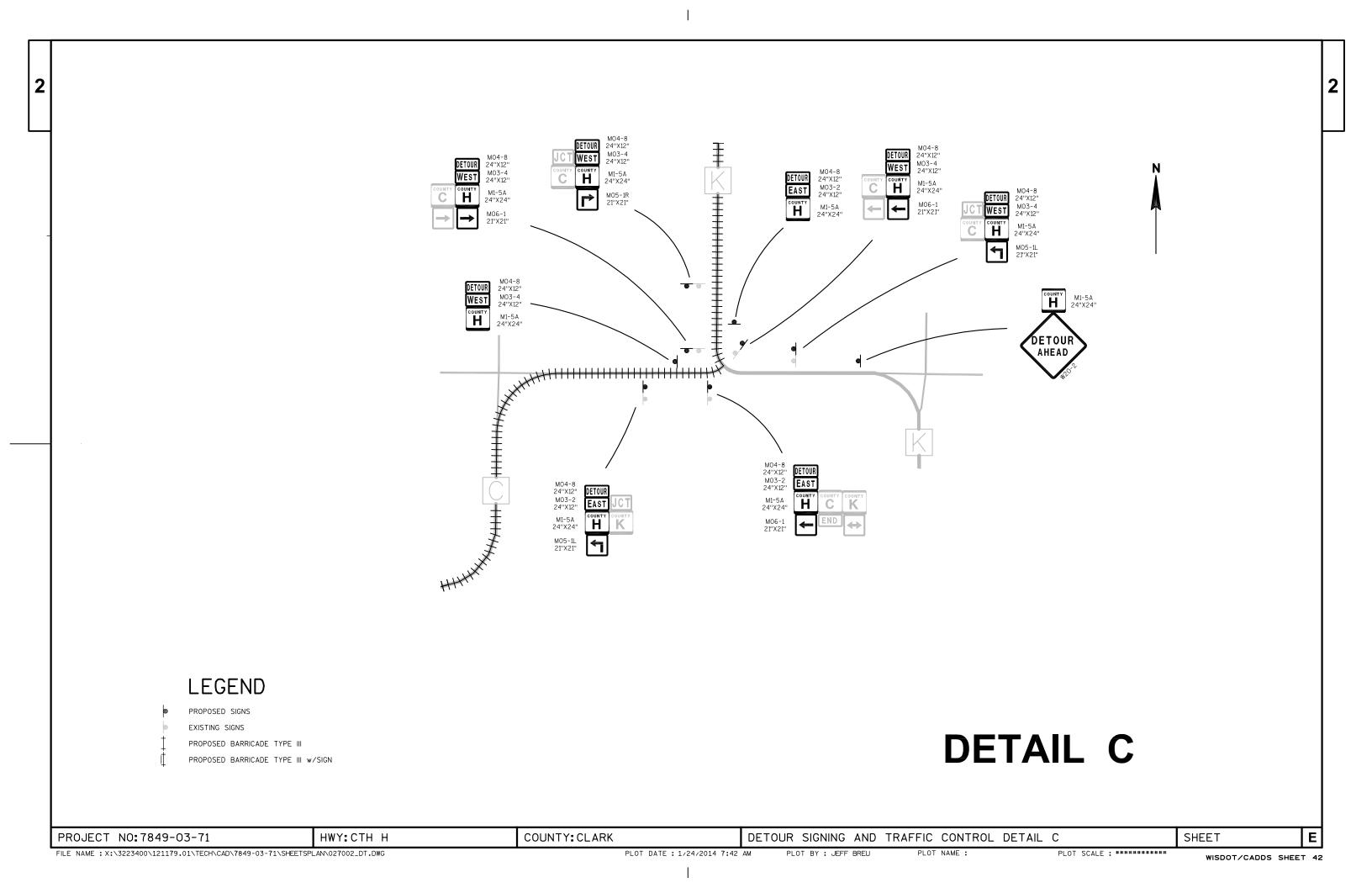
FILE NAME : X:\3223400\121179.01\TECH\CAD\7849-03-71\SHEETSPLAN\027002\_DT.DWG

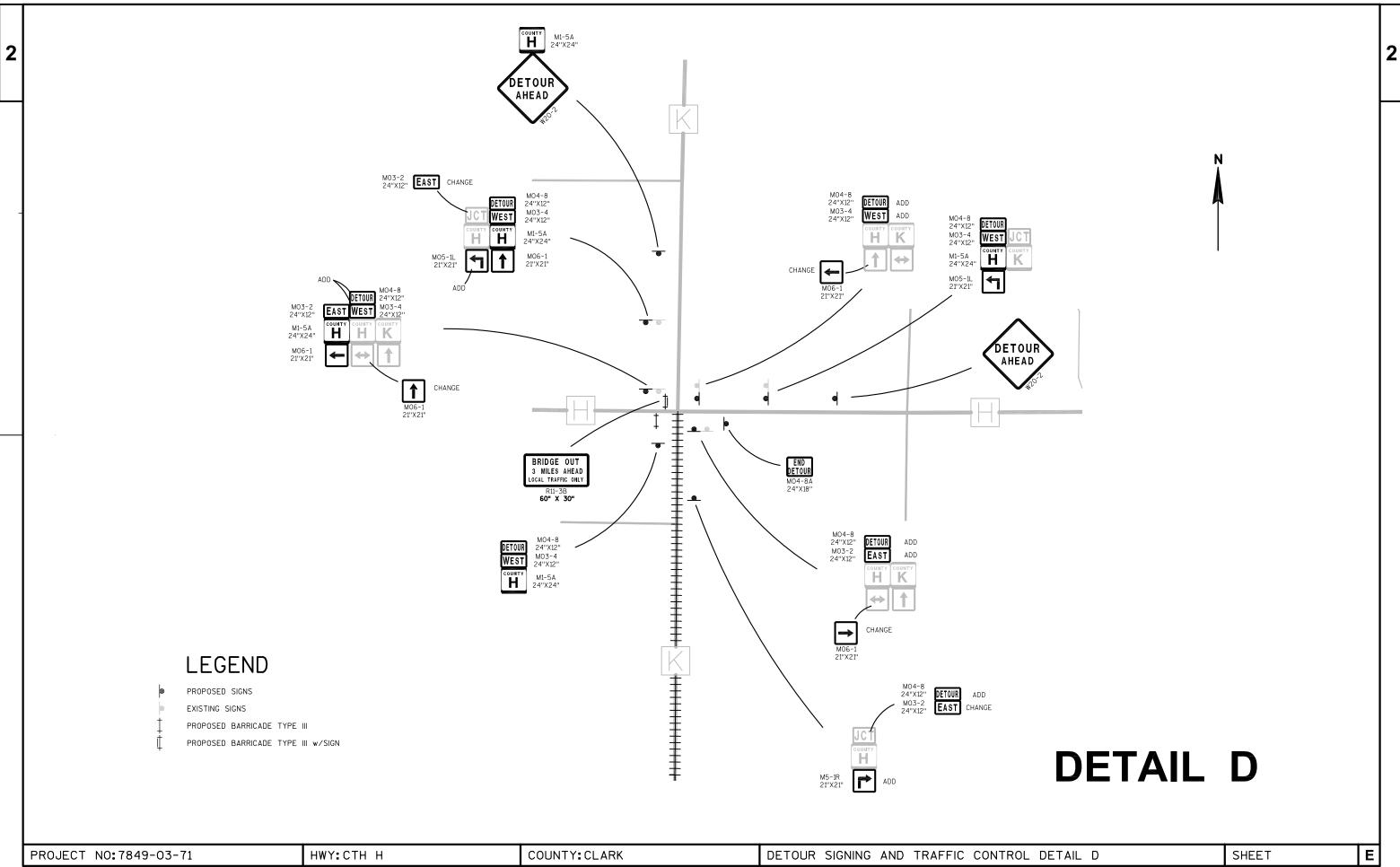
PLOT DATE: 1/24/2014 7:41 AM

PLOT NAME :

PLOT SCALE : \*\*\*\*\*\*\*\*\*\*





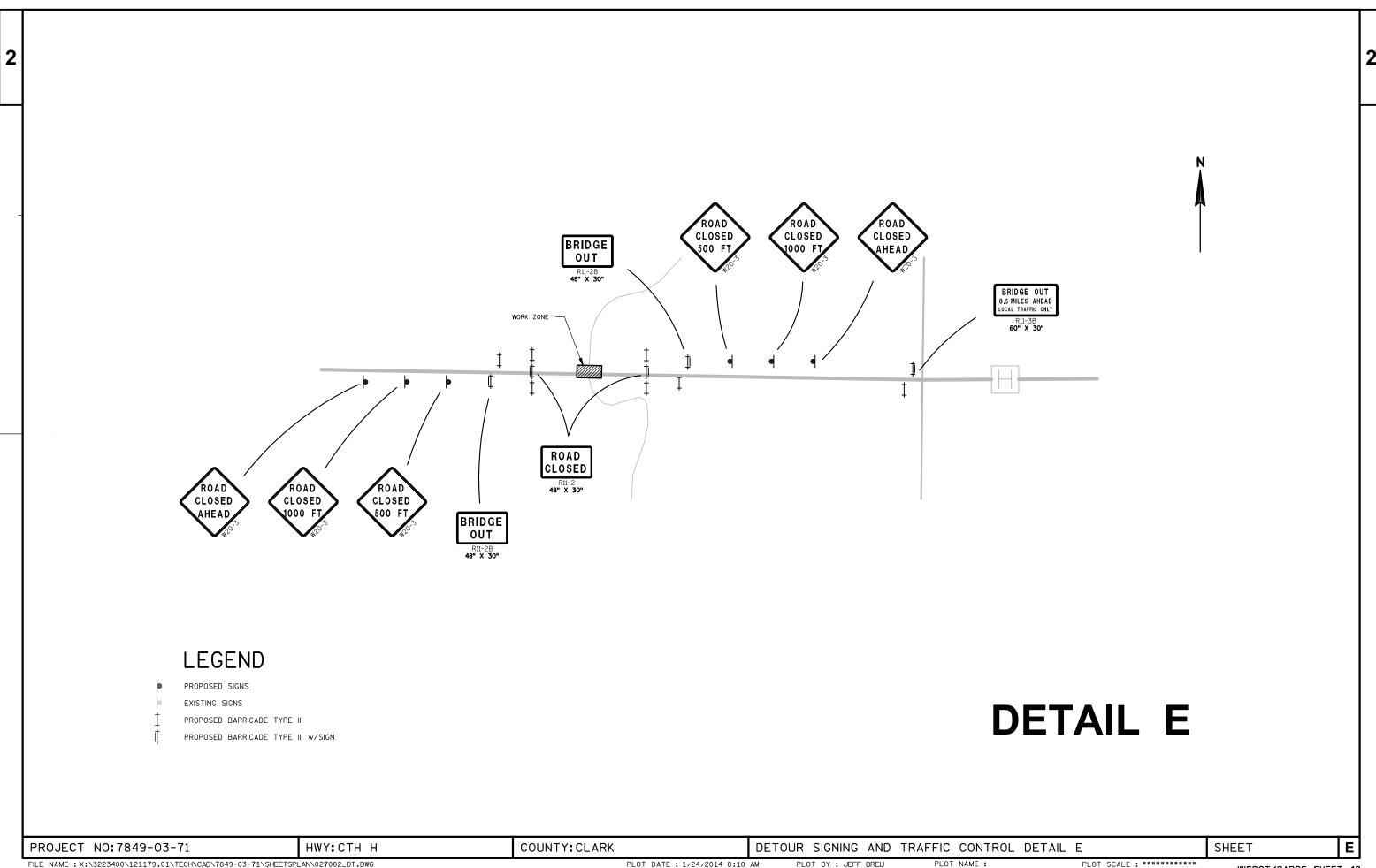


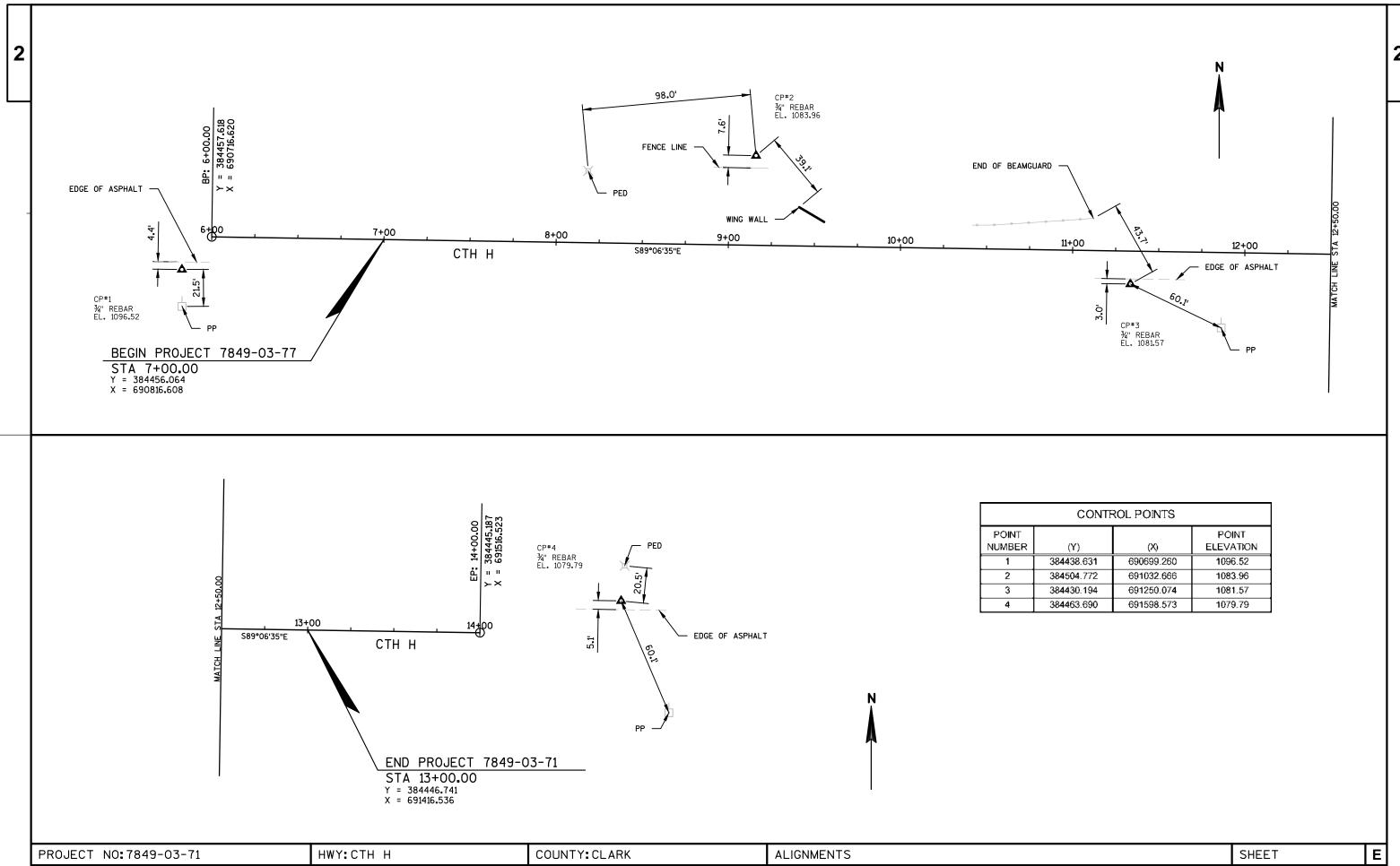
FILE NAME : X:\3223400\121179.01\TECH\CAD\7849-03-71\SHEETSPLAN\027002\_DT.DWG

PLOT DATE: 1/24/2014 7:42 AM PLOT BY: JEFF BREU

PLOT NAME :

PLOT SCALE : ##########





FILE NAME : X:\3223400\121179.01\TECH\CAD\7849-03-71\SHEETSPLAN\027201\_AD.DWG

PLOT DATE: 12/16/2013 10:28 AM PLOT BY: JEFF BREU

PLOT NAME :

PLOT SCALE : 1" = 50'\_XREF

DATE 17 LINE	MAR14	E	STIMAT	E OF QUAN	T I T I E S 7849-03-71
NUMBER		I TEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
0010 0020	201. 0105 201. 0205	CLEARI NG GRUBBI NG	STA STA	2. 000 2. 000	2. 000 2. 000
0030		REMOVING OLD STRUCTURE OVER WATERWAY	LS	1. 000	1. 000
00.40	205 0400	WITH MINIMAL DEBRIS (STATION) 01. 10+	00	1 01/ 000	1 01/ 000
0040 0050	205. 0100 206. 1000	EXCAVATION COMMON EXCAVATION FOR STRUCTURES BRIDGES	CY LS	1, 016. 000 1. 000	1, 016. 000 1. 000
	_00.1000	(STRUCTURE) 01. B-10-222		1. 000	1. 555
0060	208. 0100	BORROW	CY	530. 000	530. 000
0060 0070	210. 0100	BACKFILL STRUCTURE	CY	180. 000	180. 000
0800	213. 0100	FINISHING ROADWAY (PROJECT) 01.	EACH	1. 000	1. 000
0090	305. 0110	7849-03-71 BASE AGGREGATE DENSE 3/4-INCH	TON	200. 000	200. 000
0100	305. 0110	BASE AGGREGATE DENSE 3/4-INCH	TON	1, 660. 000	1, 660. 000
0110	4EE 010E	ASDUALTIC MATERIAL DOES 30	TON	24 000	24 000
0110 0120	455. 0105 455. 0605	ASPHALTIC MATERIAL PG58-28 TACK COAT	TON GAL	34. 000 50. 000	34. 000 50. 000
0130	460. 1101	HMA PAVEMENT TYPE E-1	TON	550.000	550.000
0140	502. 0100 502. 3200	CONCRETE MASONRY BRIDGES	CY SY	372. 000 498. 000	372. 000 498. 000
0150		PROTECTI VE SURFACE TREATMENT		<del>-</del> 70.000	<del>-</del> 70.000
0160	505. 0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	7, 530. 000	7, 530. 000
0170	505. 0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	64, 010. 000	64, 010. 000
0180	513. 4060	RAILING TUBULAR TYPE M (STRUCTURE) 01	. LS	1. 000	1. 000
0190	516. 0500	B-10-222 RUBBERIZED MEMBRANE WATERPROOFING	SY	14. 000	14. 000
0200	550. 0010	PRE-BORING UNCONSOLIDATED MATERIALS	LF	55. 000	55. 000
0210	550 0020	DDE DODING DOCK OD CONSOLLDATED	LF	210, 000	210, 000
0210	550. 0020	PRE-BORING ROCK OR CONSOLIDATED MATERIALS	LF	210. 000	210. 000
0220	550. 0500	PILE POINTS	EACH	16.000	16. 000
0230	550. 1100 550. 1120	PILING STEEL HP 10-INCH X 42 LB PILING STEEL HP 12-INCH X 53 LB	LF LF	550. 000 405. 000	550. 000 405. 000
0240 0250	550. 1120 606. 0300	RIPRAP HEAVY	CY	290. 000	290. 000
0260 0270	612. 0206 612. 0406	PIPE UNDERDRAIN UNPERFORATED 6-INCH PIPE UNDERDRAIN WRAPPED 6-INCH	LF LF	45. 000 118. 000	45. 000 118. 000
0270	614. 2300	MGS GUARDRAIL 3	LF	200. 000	200. 000
0290	614. 2500	MGS THRIE BEAM TRANSITION	LF	158. 000	158. 000
0300	614. 2610	MGS GUARDRAIL TERMINAL EAT	EACH	4. 000	4. 000
0310	619. 1000	MOBILIZATION	EACH	1.000	1.000
0320 0330	625. 0500 627. 0200	SALVAGED TOPSOIL MULCHING	SY SY	2, 100. 000 700. 000	2, 100. 000 700. 000
0340	628. 1504	SILT FENCE	LF	750. 000	750. 000 750. 000
0350	628. 1520	SILT FENCE MAINTENANCE	LF	1, 500. 000	1, 500. 000
0360	628. 1905	MOBILIZATIONS EROSION CONTROL	EACH	3. 000	3. 000
0370	628. 1910	MOBILIZATIONS EMERGENCY EROSION CONTR	OL EACH	2. 000	2.000
0380	628. 2004	EROSION MAT CLASS I TYPE B	SY SV	1, 400. 000	1, 400. 000
0390 0400	628. 6005 628. 7504	TURBI DI TY BARRI ERS TEMPORARY DI TCH CHECKS	SY LF	240. 000 100. 000	240. 000 100. 000
0410	629. 0210	FERTILIZER TYPE B	CWT	1. 500 55. 000	1.500
0420 0430	630. 0120 630. 0200	SEEDING MIXTURE NO. 20 SEEDING TEMPORARY	LB LB	55. 000 55. 000	55. 000 55. 000
0440	633. 5100	MARKERS ROW	EACH	5. 000	5.000
0450	634. 0614	POSTS WOOD 4X6-INCH X 14-FT	EACH	5. 000	5. 000
0460	637. 2230	SIGNS TYPE II REFLECTIVE F	SF	18. 000	18. 000
0470	638. 2602	REMOVING SIGNS TYPE II	EACH	5. 000	5. 000
0480 0490	638. 3000 642. 5001	REMOVING SMALL SIGN SUPPORTS FIELD OFFICE TYPE B	EACH EACH	5. 000 1. 000	5. 000 1. 000
0470	J-72. JUU I	THE OTTION THE D	LAUII	1.000	1.000

DATE 1	7MAR14	E S T	IMAT	E OFQUAN		
LI NE NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	7849-03-71 QUANTI TY	
0500	643. 0100			1. 000	1. 000	
0510	643. 0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	1, 120. 000	1, 120. 000	
0520	643. 0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	1, 960. 000	1, 960. 000	
0530	643. 0900	TRAFFIC CONTROL SIGNS	DAY	910. 000	910. 000	
0540	643. 2000	TRAFFIC CONTROL DETOUR (PROJECT) 01. 7849-03-71	EACH	1. 000	1. 000	
0550	643. 3000	TRAFFIC CONTROL DETOUR SIGNS	DAY	8, 960. 000	8, 960. 000	
0560	645. 0120	GEOTEXTILE FABRIC TYPE HR	SY	530.000	530. 000	
0570	646. 0106	PAVEMENT MARKING EPOXY 4-INCH	LF	1, 900. 000	1, 900. 000	
0580	650. 4500	CONSTRUCTION STAKING SUBGRADE	LF	494.000	494.000	
0590	650. 5000	CONSTRUCTION STAKING BASE	LF	494.000	494.000	
0600	650. 6500	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 01. B-10-222	LS	1. 000	1. 000	
0610	650. 9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 7849-03-71	LS	1. 000	1. 000	
0620	650. 9920	CONSTRUCTION STAKING SLOPE STAKES	LF	494.000	494.000	
0630	690. 0150	SAWING ASPHALT	LF	60.000	60.000	
0640	715. 0502	INCENTIVE STRENGTH CONCRETE STRUCTURES	DOL	2, 232. 000	2, 232. 000	
0650	ASP. 1TOA	ON-THE-JOB TRAINING APPRENTICE AT \$5. OO/HR	HRS	1, 200. 000	1, 200. 000	
0660	ASP. 1T0G	ON-THE-JOB TRAINING GRADUATE AT \$5.00/HR	HRS	300.000	300. 000	

## **CLEARING AND GRUBBING**

### EARTHWORK SUMMARY

TOTAL	COMMON EX	1,016				TOTAL E	BORROW	530
7+00 - 13+00	CTH H	1,016	293	723	1254	1568	-530	530
FROM/TO STATION	LOCATION	(1)	MATERIAL	(2)	FILL	(FACTOR 1.25)	(3)	BORROW
		COMMON EXCAVATION CUT	SALVAGED/ UNUSABLE PAVEMENT	AVAILABLE MATERIAL	UNEXPANDED	EXPANDED FILL	MASS ORDINATE +/-	208.0100
		205.0100						

- (1) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED
- (2) AVAILABLE MATERIAL = CUT SALVAGED/UNUSABLE PAVEMENT MATERIAL
- (3) THE MASS ORDINATE + OR QUANTITY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AS EXCESS OF MATERIAL WITHIN THE DIVISION, MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

## BASE AGGREGATE DENSE

				305.0110	305.0120
				BASE	BASE
				AGGREGATE	AGGREGATE
				DENSE 3/4 INCH	DENSE 1-1/4 INCH
STATION	TO	STATION	LOCATION	TON	TON
7+00	-	9+47	CTH H	100	830
10+53	-	13+00	CTH H	100	830
			TOTAL	200	1,660

### ASPHALT SUMMARY

				ASPITALT SU	IVI IVI ALL I		
					455.0105		460.1101
					ASPHALTIC	455.0605	HMA
					MATERIAL	TACK	PAVEMENT
					PG58-28	COAT	TYPE E-1
	STATION	TO	STATION	LOCATION	TON	GAL	TON
•	7+00	-	9+47	CTH H	17	25	275
	10+53	-	13+00	CTH H	17	25	275
•				TOTAL	34	50	550

### **BEAMGUARD SUMMARY**

·			TOTAL	200	158	4
10+53	-	11+70	CTH H, RT	25	39.4	1
10+53	-	12+20	CTH H, LT	75	39.4	1
7+80	-	9+47	CTH H, RT	75	39.4	1
8+30	-	9+47	CTH H, LT	25	39.4	1
STATION	TO	STATION	LOCATION	LF	LF	EACH
				3	TRANSITION	TERMINAL EAT
				GUARDRAIL	THRIE BEAM	GUARDRAIL
				MGS	MGS	MGS
				614.2300	614.2500	614.2610

### **MOBILIZATION**

	OATE OODV		LOCATION	MOBILIZATION
	CATEGORY	STATION TO STATION	LOCATION	EACH
	0010	PROJECT	CTH H	0.29
_	0020	PROJECT	CTH H	0.71
_			TOTAL	1.00

NOTE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED AS 0020.

619.1000

PROJECT NO: 7849-03-71 HWY: CTH H COUNTY: CLARK MISCELLANEOUS QUANTITIES SHEET NO:
--

FILE NE : PLOT DATE : \_\_\_\_\_ PLOT BY : \_\_\_\_ PLOT NAME : \_\_\_\_ ORG DATE : ORIGINATOR : PLOT SCALE :

628.1520

<u>LAN</u>	<u>IDS</u>	<u>Caf</u>	<u>PING</u>	<u>i IT</u>	EMS

					628.2004			630.0120	
				625.0500	<b>EROSION</b>		629.0210	SEEDING	630.0200
				SALVAGED	MAT CLASS I	627.0200	FERTILIZER	MIXTURE	SEEDING
				TOPSOIL	TYPE B	MULCHING	TYPE B	NO. 20	TEMPORARY
STATION	TO	STATION	LOCATION	SY	SY	SY	CWT	LB	LB
7+00	-	9+75	CTH H, RT	300	200	100	0.2	8	8
7+00	-	9+75	CTH H, LT	330	200	130	0.2	9	9
10+25	-	13+00	CTH H, RT	520	420	100	0.3	14	14
10+25	-	13+00	CTH H, LT	620	500	120	0.4	17	17
BOR	ROW	SITE		330	80	250	0.4	7	7
			TOTAL	2,100	1,400	700	1.5	55	55

## SILT FENCE

				628.1504	SILT FENCE
				SILT FENCE	MAINTENANCE
STATION	TO STA	TION LO	CATION	LF	LF
10+50	- 13+	-00 CTI	H H, RT	260	520
10+50	- 13+	-00 CTI	H H, LT	270	540
BORR	OW SITE		-	220	440
		Ţ	OTAL	750	1,500

## **TURBIDITY BARRIER**

_		628.6005
		TURBIDITY
		BARRIER
STATION	LOCATION	SY
9+75	CTH H	120
10+25	CTH H	120
	TOTAL	240

## **EROSION CONTROL SUMMARY**

				TOTAL	3	2	100
	UNDIS	TRIB	UTED		3	2	20
	7+10	-	9+30	CTH H, LT	-	-	40
	7+10	-	9+30	CTH H, RT	-	-	40
S	NOITAT	TO S	STATION	LOCATION	EACH	EACH	LF
					CONTROL	CONTROL	CHECKS
					EROSION	EROSION	DITCH
					MOBILIZATIONS	<b>EMERGENCY</b>	<b>TEMPORARY</b>
					628.1905	MOBILIZATIONS	628.7504
						628.1910	

## MARKERS ROW

NO.	STATION	LOCATION	633.5100 EACH
202	11+07.51	57.00' LT	1
203	13+00.00	57.00' LT	1
204	13+00.00	40.00' LT	1
207	10+35.00	57.00' LT	1
208	10+35.00	45.00' LT	1
		TOTAL	5

## **SIGNING**

		634.0614 POSTS WOOD 4x6-INCH x 14-FT	637.2230 SIGNS TYPE II REFLECTIVE F	638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS	
STATION	LOCATION	EACH	SF	EACH	EACH	COMMENTS
9+45	CTH H, LT	1	3	-	-	W5-52L
9+45	CTH H, RT	1	3	-	-	W5-52R
9+60	CTH H, LT & RT	-	-	2	2	
10+40	CTH H, LT & RT	-	-	2	2	
10+55	CTH H, LT	1	3	-	-	W5-52R
10+55	CTH H, RT	1	3	-	-	W5-52L
11+70	CTH H, RT	1	6	1	1	W14-3
	TOTAL	5	18	5	5	

## **PAVEMENT MARKING**

				646.0106 EPOXY 4-INCH	
STATION	TO	STATION	LOCATION	LF	REMARKS
7+00	-	13+00	CTH H	1,200	WHITE EDGE LINES
7+00	-	13+00	CTH H	600	YELLOW
7+00	-	13+00	CTH H	100	YELLOW SKIPS
			TOTAL	1,900	

NOTE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED AS 0020.

PROJECT NO: 7849-03-71 HWY: CTH H COUNTY: CLARK MISCELLANEOUS QUANTITIES SHEET NO: E
--

FILE NE : PLOT DATE : \_\_\_\_\_ PLOT BY : \_\_\_\_\_ PLOT NAME : \_\_\_\_ ORG DATE : ORIGINATOR : PLOT SCALE :

3
---

TRAFFIC CONTROL ITEMS

	<u> </u>	••••	<u> </u>	
		643.0705		
	643.0420	TRAFFIC		
	TRAFFIC	CONTROL	643.0900	643.3000
	CONTROL	WARNING	TRAFFIC	TRAFFIC
	BARRICADES	LIGHTS	CONTROL	CONTROL
	TYPE III	TYPE A	SIGNS	<b>DETOUR SIGNS</b>
LOCATION	DAYS	DAYS	DAYS	DAYS
DETAIL A	140	280	70	2,240
DETAIL B	-	-	-	2,240
DETAIL C	-	-	-	2,240
DETAIL D	140	280	70	2,240
DETAIL E	840	1,400	770	0
TOTAL	1,120	1,960	910	8,960

## **CONSTRUCTION STAKING**

				ΤΟΤΔΙ	494	494		494
0010	10+53	-	13+00	CTH H	247	247	-	247
0020		10+00	O	B-10-222	-	-	1	-
0010	7+00	-	9+47	CTH H	247	247	-	247
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	LS	LF
					SUBGRADE	BASE	(STRUCTURE)	STAKES
					650.4500	650.5000	LAYOUT	SLOPE
							STRUCTURE	650.9920
							650.6500	

## **SAWING ASPHALT**

	TOTAL	60
13+00	CTH H	30
7+00	CTH H	30
STATION	LOCATION	LF
		ASPHALT
		SAWING
		690.0150

NOTE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED AS 0020.

PROJECT NO: 7849-03-71 HWY: CTH H COUNTY: CLARK MISCELLANEOUS QUANTITIES SHEET NO:
--

FILE NE : PLOT DATE : \_\_\_\_\_ PLOT BY : \_\_\_\_ PLOT NAME : \_\_\_\_ ORG DATE : ORIGINATOR : PLOT SCALE :

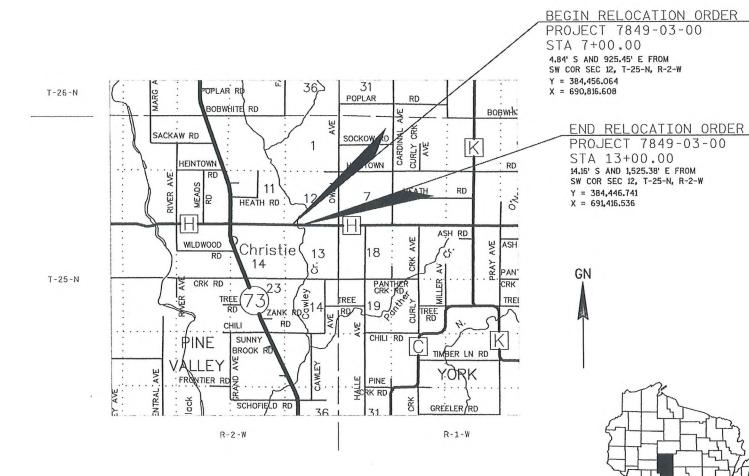
CONVE	NITONAL	ABBREVIATIONS	
ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
	40	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	CVL	STATION	STA.
CERTIFIED SURVEY WAP	COR.	TEMPORARY LIMITED EASEN	ENT TLE
CORNER	DOC.	VOLUME OLD TO THE	٧.
DOCUMENT	EASE.	CURVE DATA	-
EASEMENT	H.E.	LONG CHORD	LCH
HIGHWAY EASEMENT	LC.	LONG CHORD BEARING	LCB
LAND CONTRACT	MON.	RADIUS	R
MONUMENT	Р.	DEGREE OF CURVE	D
PAGE PAGE		CENTRAL ANGLE OR DELTA	DELT
PERMANENT LIMITED EASEN	PL.	LENGTH OF CURVE	L.
PROPERTY LINE	(100.)	TANGENT	TAN
RECORDED AS		NA CAMBOLC	
		NAL SYMBOLS	
FOUND IRON PIPE/PIN	oIP	PROPOSED R/W LINE -	
	(SET)	EXISTING H.E. LINE -	
R/W MONUMENT		PROPERTY LINE -	
RIW POINT NOT MONUMENTED	0	LOT & TIE LINES	
R/W STANDARD	A 4(SET)	SLOPE INTERCEPTS -	:
SIGN	ISIGN	CORPORATE LIMITS	1111111
SECTION CORNER MONUMENT	0	NO ACCESS (BY PREVIOUS ACQUISITION	NI-CONTECT
SECTION CORNER SYMBOL	( <u>(a)</u> )		11111
	1	NO ACCESS (BY ACQUISTION)	
FEE (HATCH VARIES)	11/11	NO ACCESS (BY STATUTORY AUTHORITY	000000
TEMPORARY LIMITED EASEMENT	120201		)
PERMANENT LIMITED	K-1521	SECTION LINE .	
EASEMENT	CTD)	SIXTEENTH LINE .	
R/W POINT	(43)	EXISTING CENTERLINE	
PARCEL NUMBER	603	PROPOSED REFERENCE LINE	_
UTILITY PARCEL NUMBER	(92)	PARALLEL OFFSET	DE
SIGN NUMBER	21-1)		7-1
(OFF PREMISE)			
BUILDING			
CONVEN	TIONAL	UTILITY SYMBOLS	
WATER		W	
GAS			
TELEPHON	Ξ	T	
OVERHEAD		ОН	
	SION LINES		
ELECTRIC		ε	
CABLE TE		——тv——	
FIBER OP		F0	
SANITARY		SAN	
STORM SE	MEH.	NON SS-	
	CON	NUN IPENSABLE COMPENSABLE	
POWER PO		6 d	
TELEPHON		ø ø	
	E PEDESTAL	я́х	
ELECTRIC			
LLECINIC	· JIII.	M	

#### NOTES

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

RIGHT-OF-WAY MONUMENTS ARE 3/4" X 24" REBAR 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.



SHEET TOTAL NUMBER SHEETS R/W PROJECT NUMBER 7849-03-00 FEDERAL PROJECT NUMBER 4.01

PLAT OF RIGHT-OF-WAY REQUIRED FOR

STH 73 - CTH K CAWLEY CREEK BRIDGE B-10-0222

стн н

CLARK COUNTY

CONSTRUCTION PROJECT NUMBER 7849-03-71

END RELOCATION ORDER PROJECT 7849-03-00

STA 13+00.00

Y = 384.446.741

X = 691,416.536

GN

14.16' S AND 1,525.38' E FROM SW COR SEC 12, T-25-N, R-2-W

> and CONSTILL WALSH SURVEN SEAN M. WALSH

S-2016

REVISION DA	TE	STA
		APPROVED FOR
*********	**********	7.0 7.1.0 7.2.0
		DATE: 11/5/13
		DATE:
	***********	

TATE OF WISCONSIN CLARK COUNTY

CLARK COUNTY

PLOT DATE : 10/14/2013 2:09 PM

LAYOUT

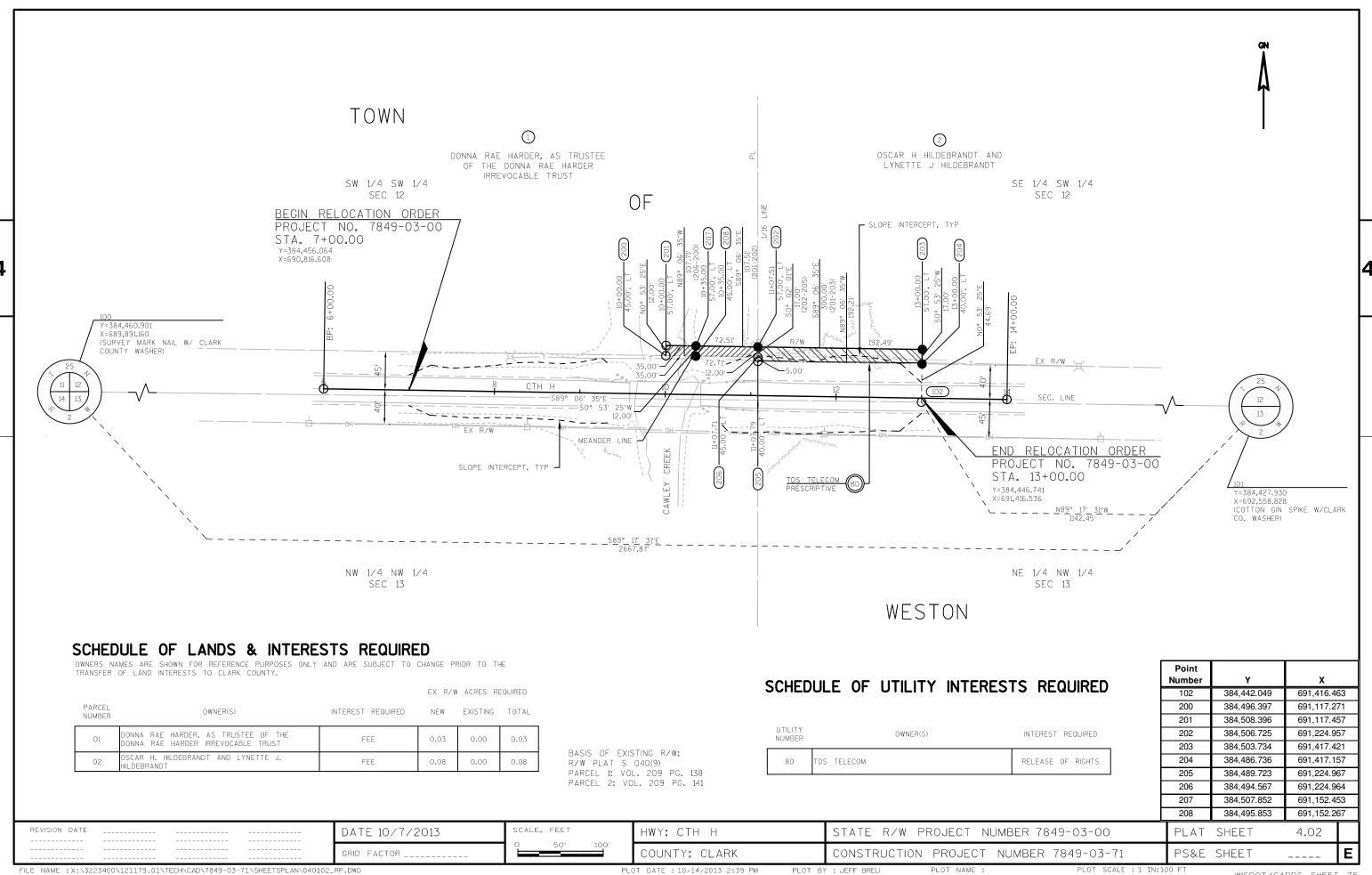
TOTAL NET LENGTH OF CENTERLINE = 0.114

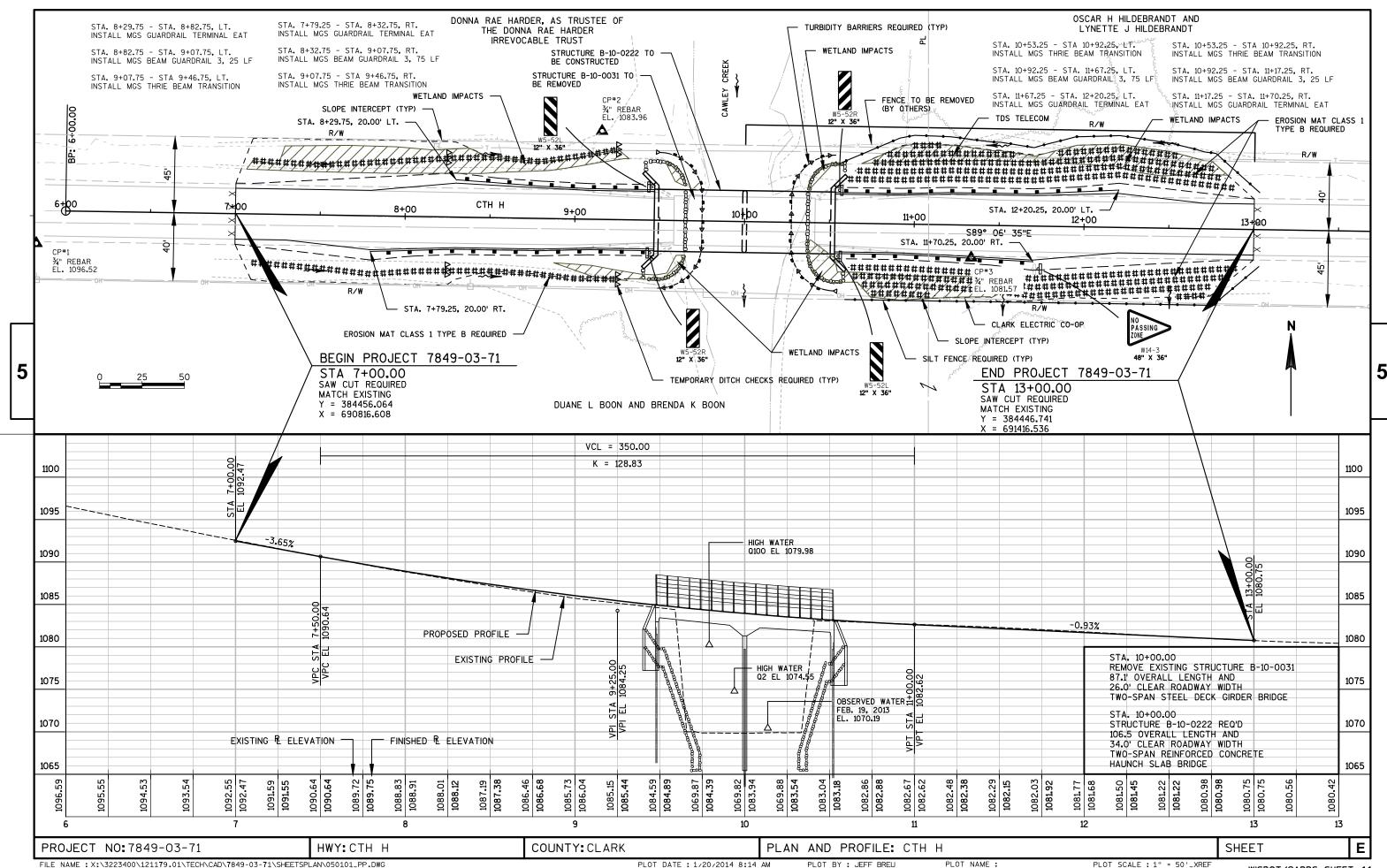
SCALE 0

PLOT BY : JEFF BREU

PLOT NAME :

FILE NAME : X:\3223400\121179.01\TECH\CAD\7849-03-71\SHEETSPLAN\040101\_TI.DWG





## Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
14B42-02A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-01A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
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)
14B45-03H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A01-11	MARKER POST FOR RIGHT-OF-WAY
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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

Ō Ö

 $\infty$  $\infty$ Ω

Δ

## TYPICAL APPLICATION OF SILT FENCE

6

b

Ō

Ш





# PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



#### **GENERAL NOTES**

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

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



TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannestra

29-05 /S/ Beth Cannestra
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

6

٥

D.D. 8 E 9

6

Ū

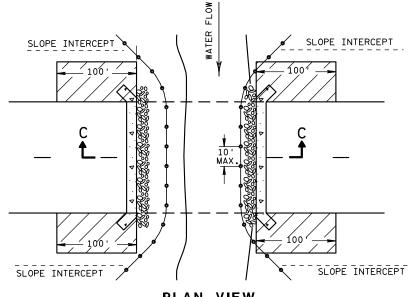
Ō

#### **GENERAL NOTES**

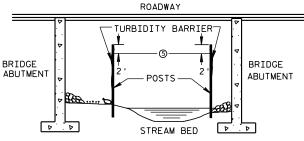
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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** 



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

 $\infty$ 

Ω

SECTION C-C





#### 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)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

|--|

3/26/IO /S/ SCOT BECKET

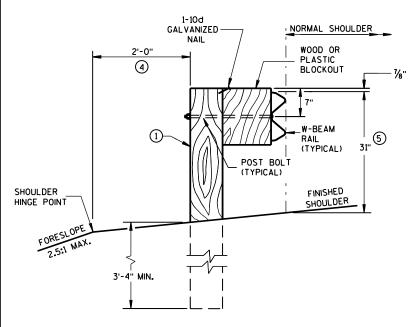
CHIEF STRUCTURAL DEVELOPMENT ENGINEER

D.D. 12 A

3-10

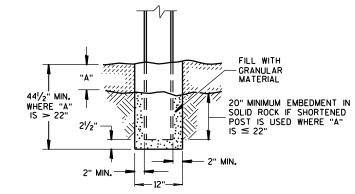
#### **GENERAL NOTES**

- (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".

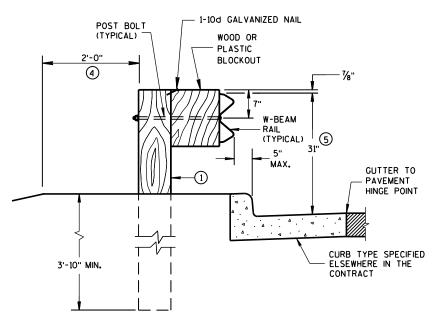


**END VIEW** 

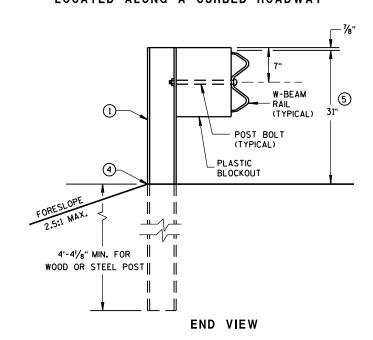
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



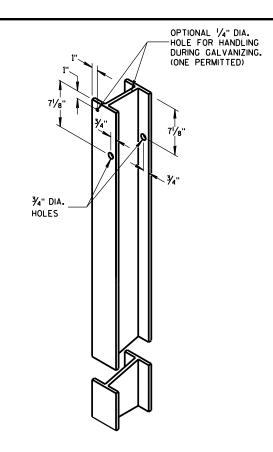
SETTING STEEL OR WOOD POST IN ROCK  $^{\scriptsize{\textcircled{3}}}$ 



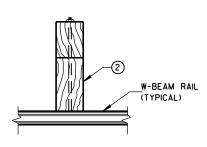
END VIEW
LOCATED ALONG A CURBED ROADWAY



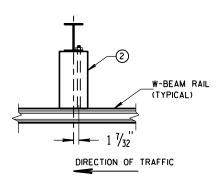
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



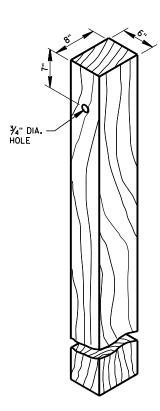
STEEL POST & HOLE PUNCHING DETAIL (w6X9)



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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D.

 $\Box$ 

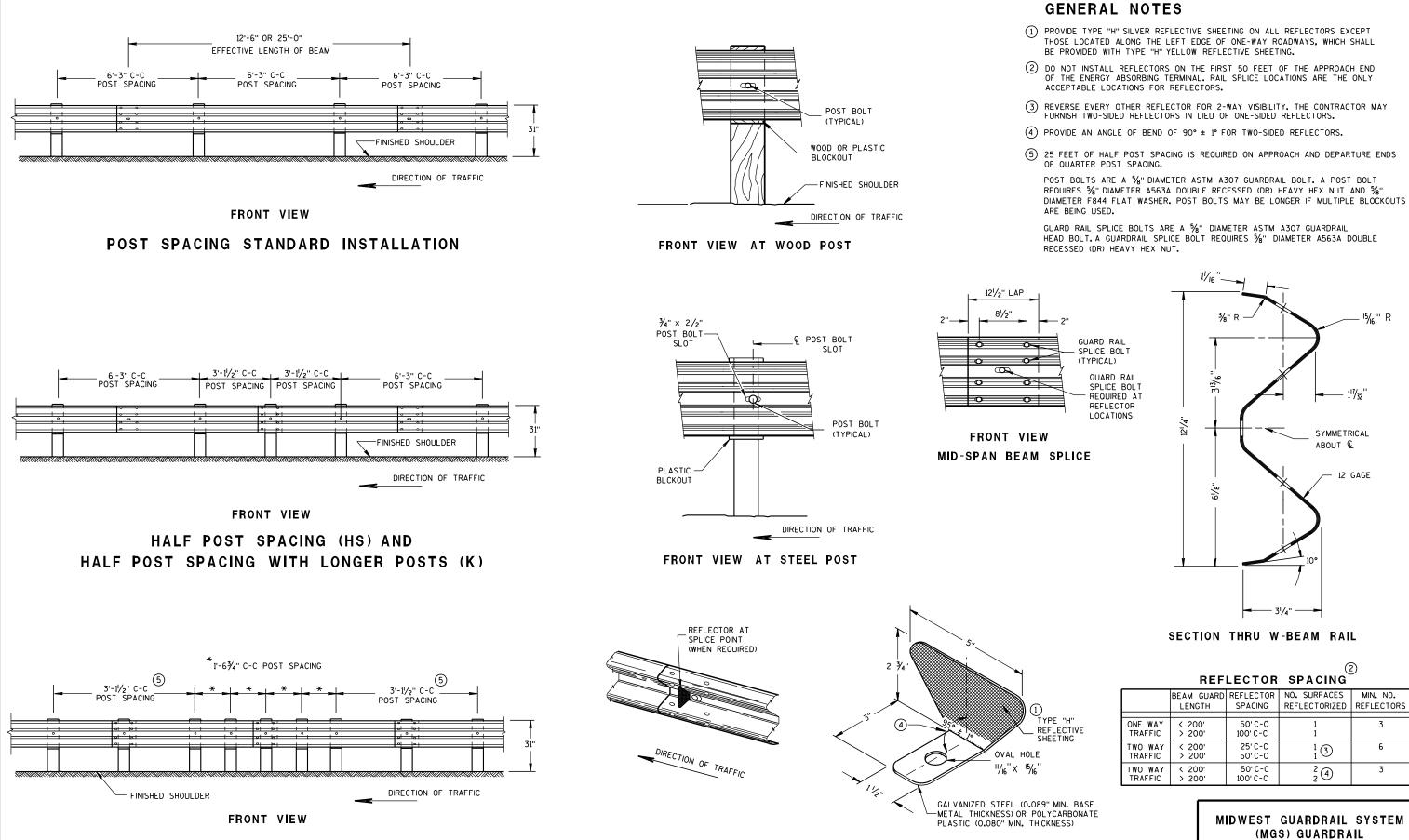
6

2 a

N

Ω

Ω



ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

6

D

D

 $\boldsymbol{\varpi}$ 

QUARTER POST SPACING (QS)

<sup>15</sup>/<sub>16</sub>" R

SYMMETRICAL

12 GAGE

ABOUT €

6

REFLECTOR SPACING

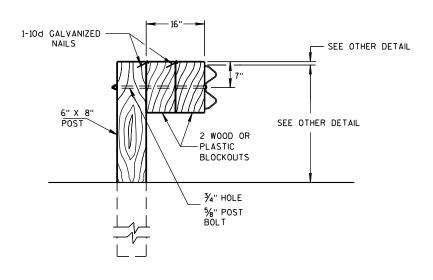
	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY	< 200' > 200'	50' C-C 100' C-C	1 1	3
TWO WAY	< 200' > 200'	25' C-C 50' C-C	1 3	6
TWO WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	2 4	3

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

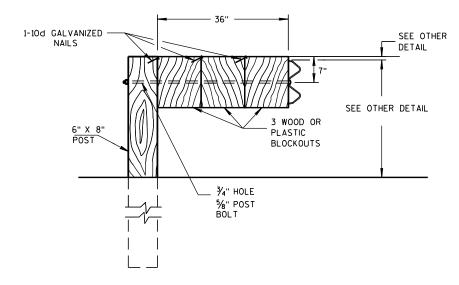
Ω Δ

2 b



#### 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.

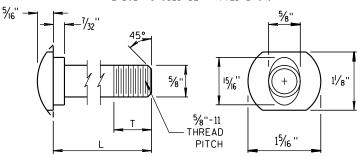


#### DETAIL FOR 36" BLOCKOUT DEPTH

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.

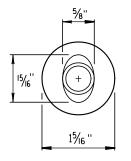
> DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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.

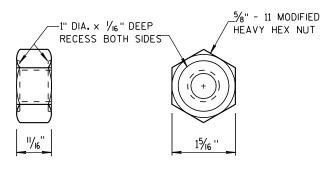


#### POST BOLT TABLE

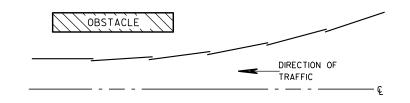
L	T (MIN.)
11/4"	11/8"
2"	13/4"
10''	4"
14''	41/16"
18"	4"
21"	41/16"
25"	4"



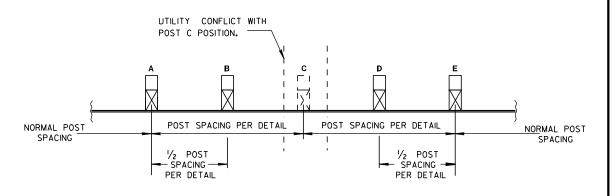
ALTERNATE BOLT HEAD



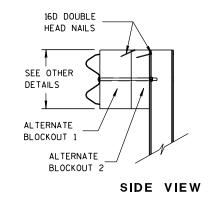
POST BOLT AND RECESS NUT

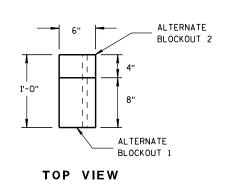


## PLAN VIEW **BEAM LAPPING DETAIL**



## POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





ALTERNATE WOOD

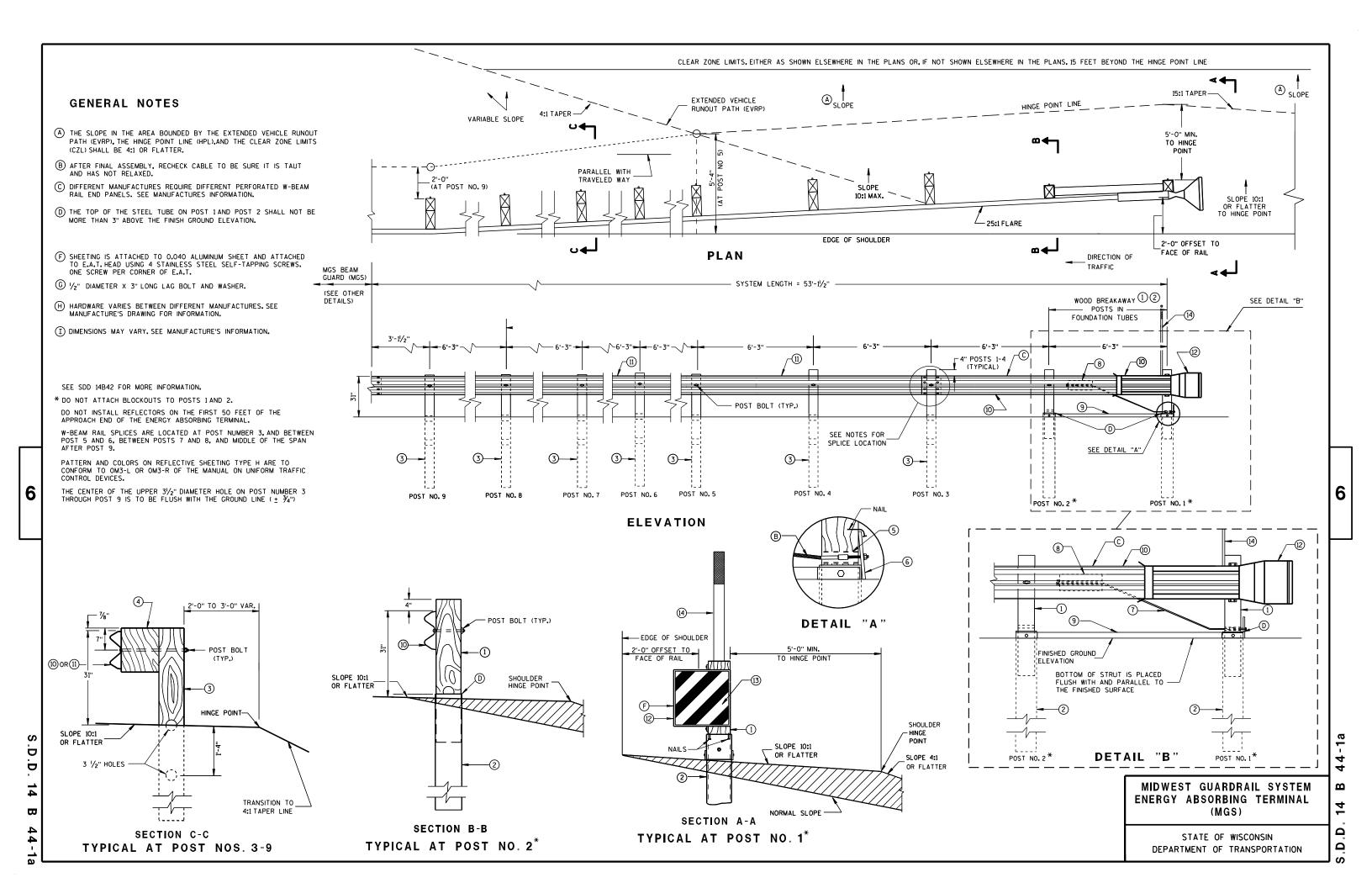
**BLOCKOUT DETAIL** 

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

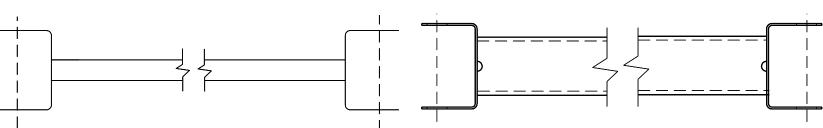
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

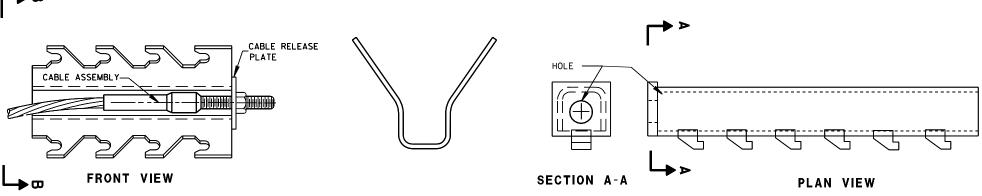
APPROVED /S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT

2  $\mathbf{\omega}$ Ω



₩



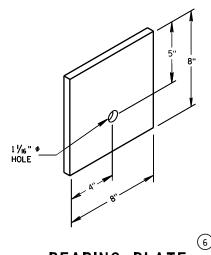


9 H

GENERIC ANCHOR CABLE BOX

### **BILL OF MATERIALS**

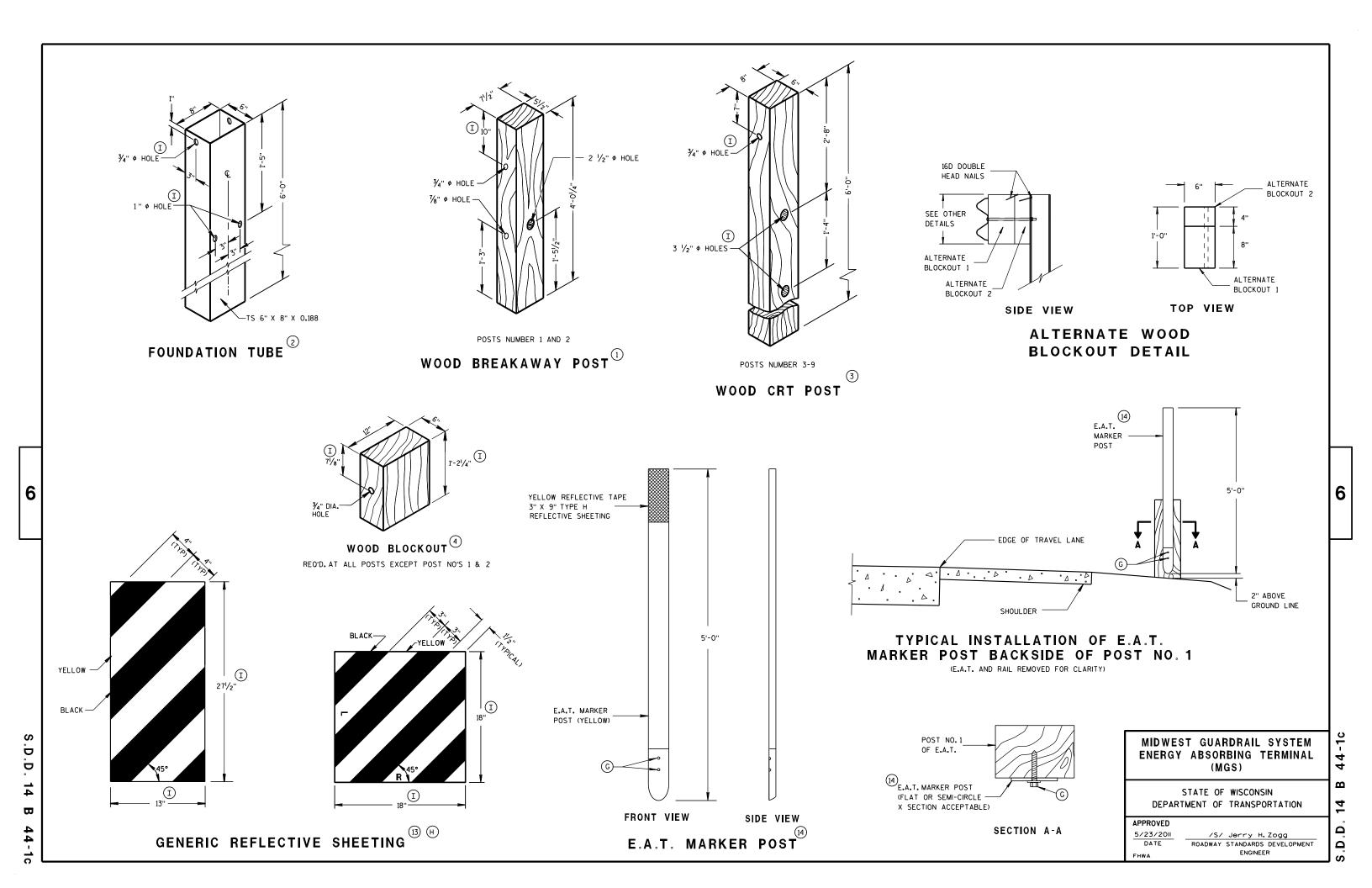
PART NO.	DESCRIPTION  MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.			
1	WOOD BREAKAWAY POST			
2	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1AND 2			
3	WOOD CRT			
4	WOOD BLOCKOUT			
(5)	PIPE SLEEVE			
6	BEARING PLATE			
7	BCT CABLE ASSEMBLY			
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.			
(12)	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)			
	ISEE ALTROPED TRODUCTS EIST/			

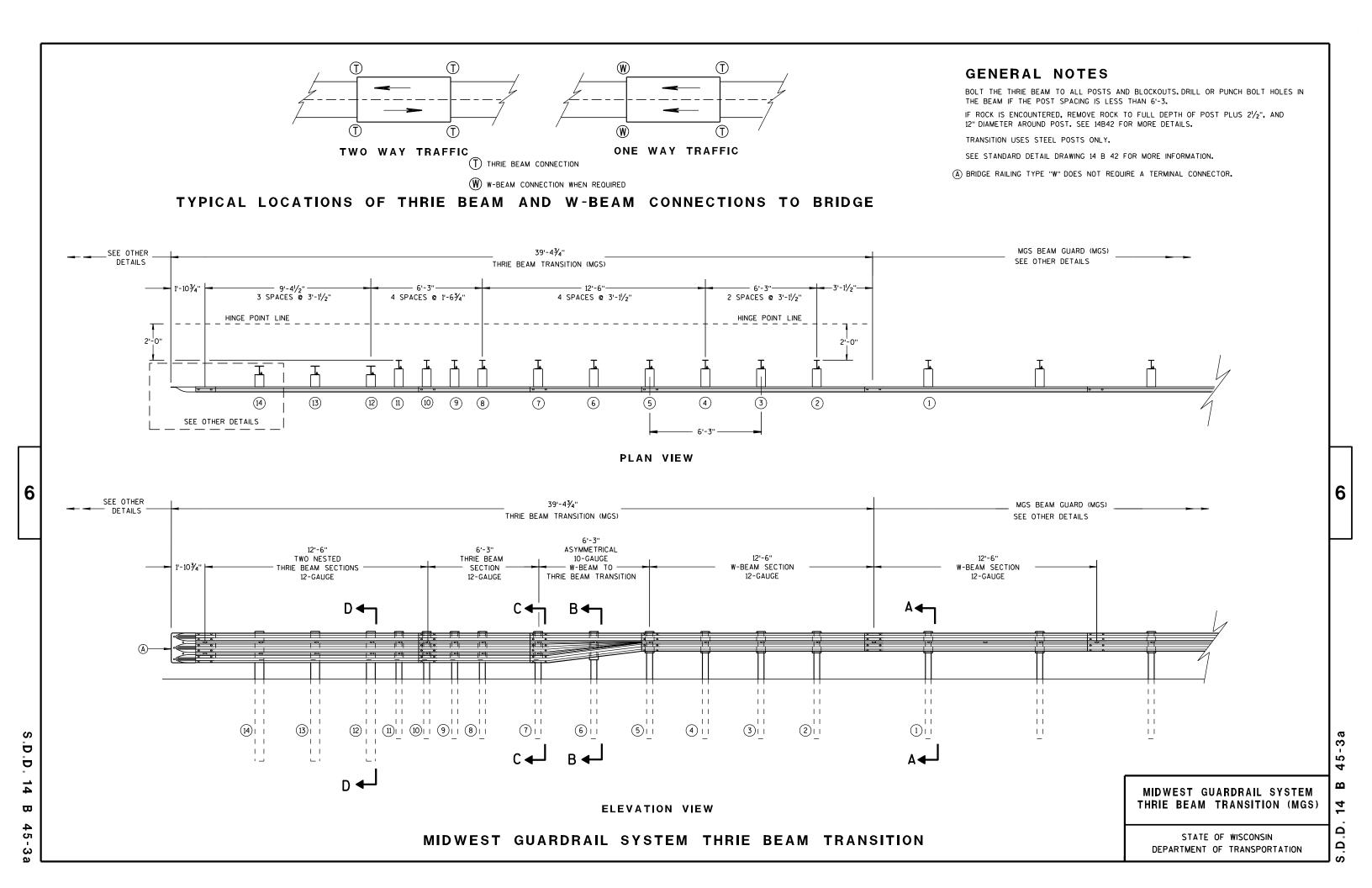


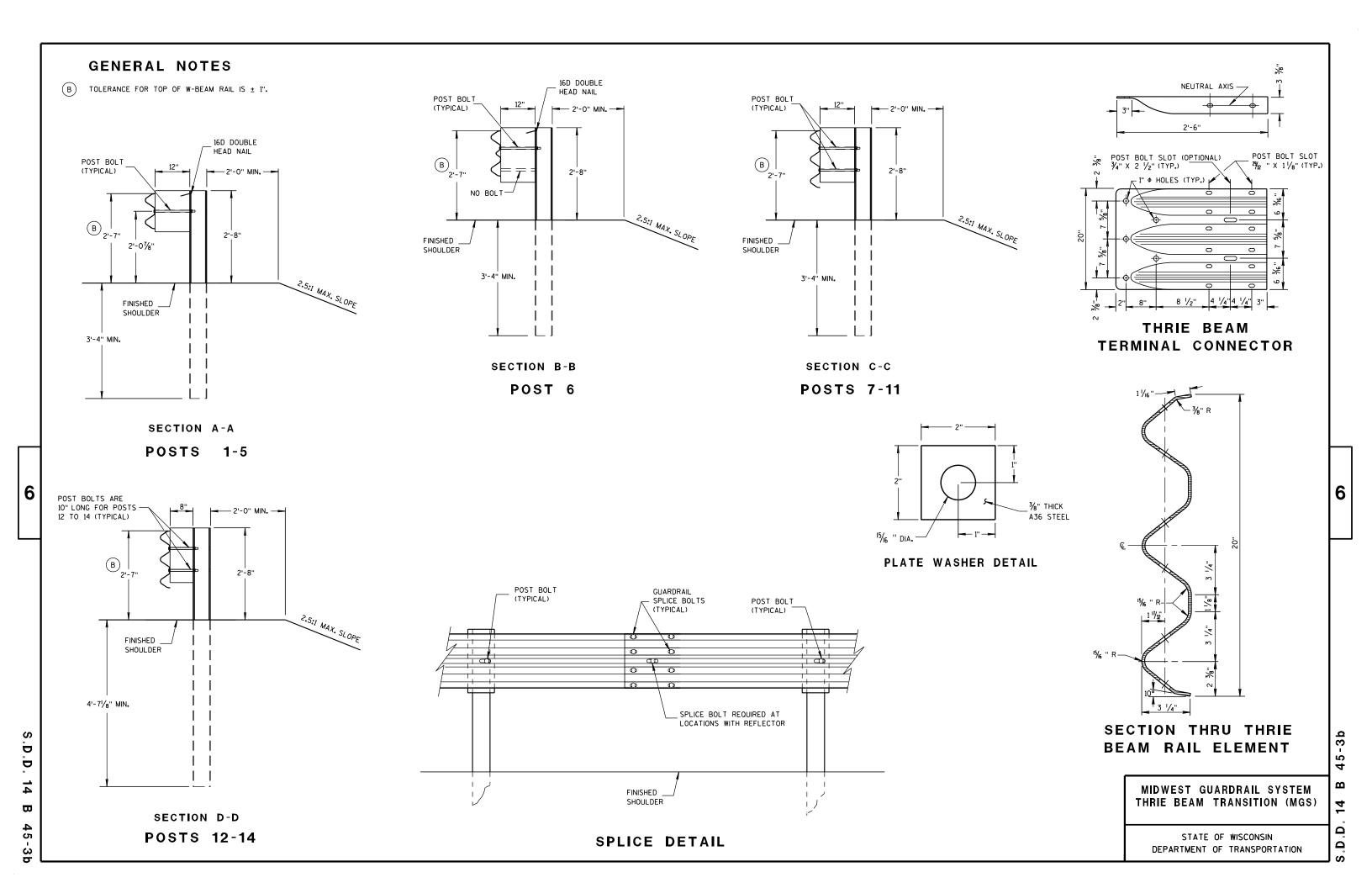
BEARING PLATE

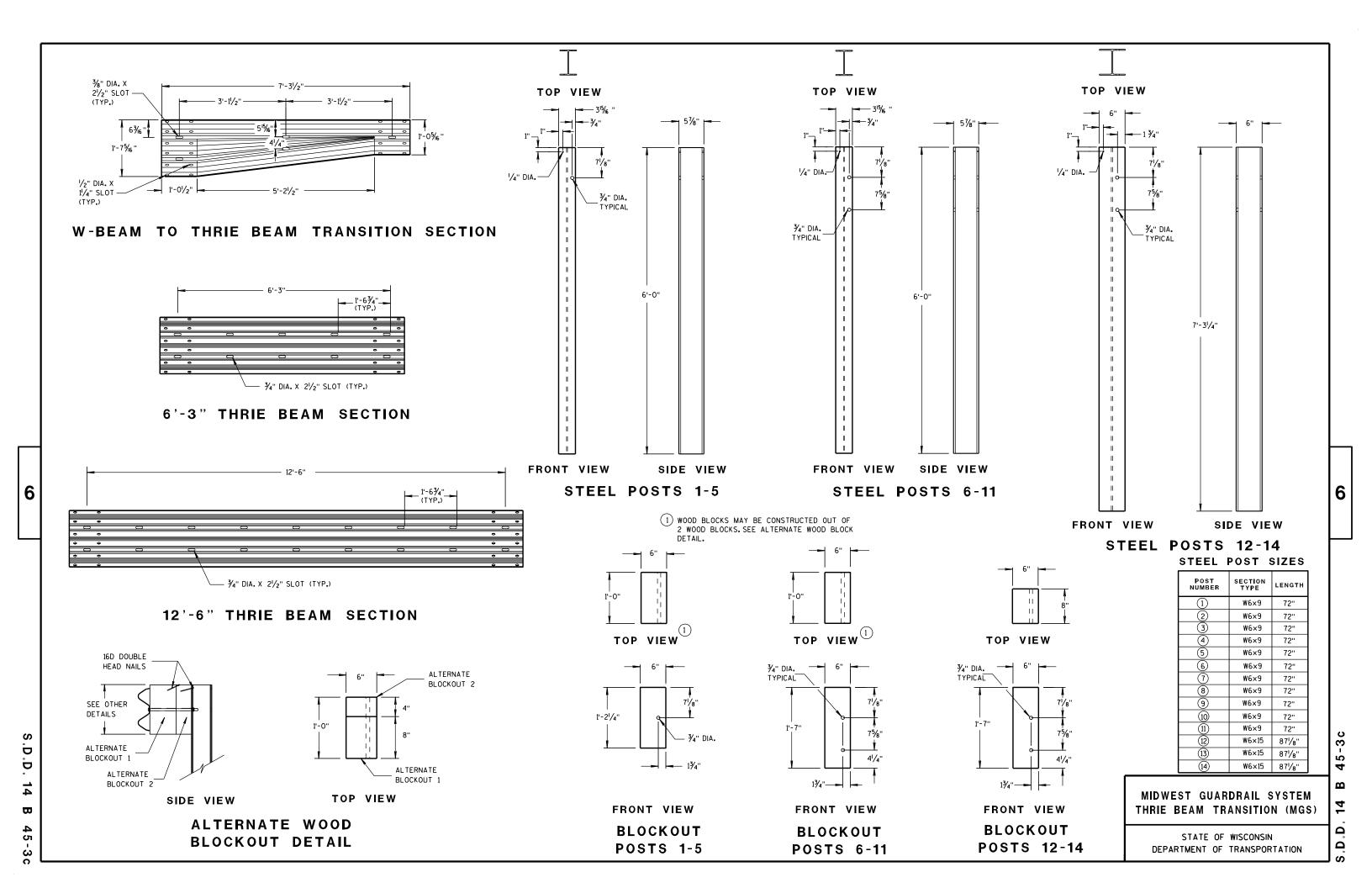
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

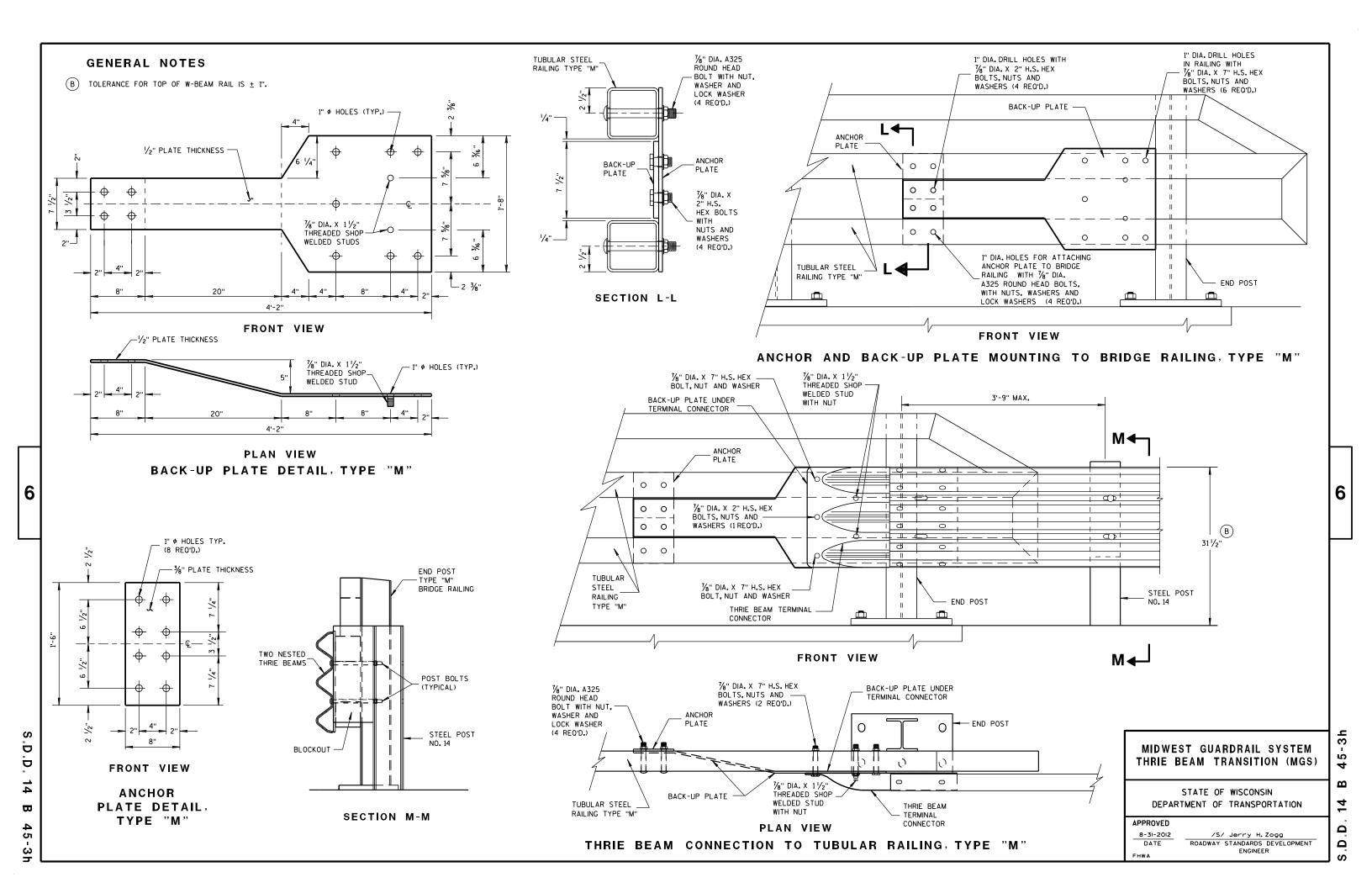
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION S.D.D.

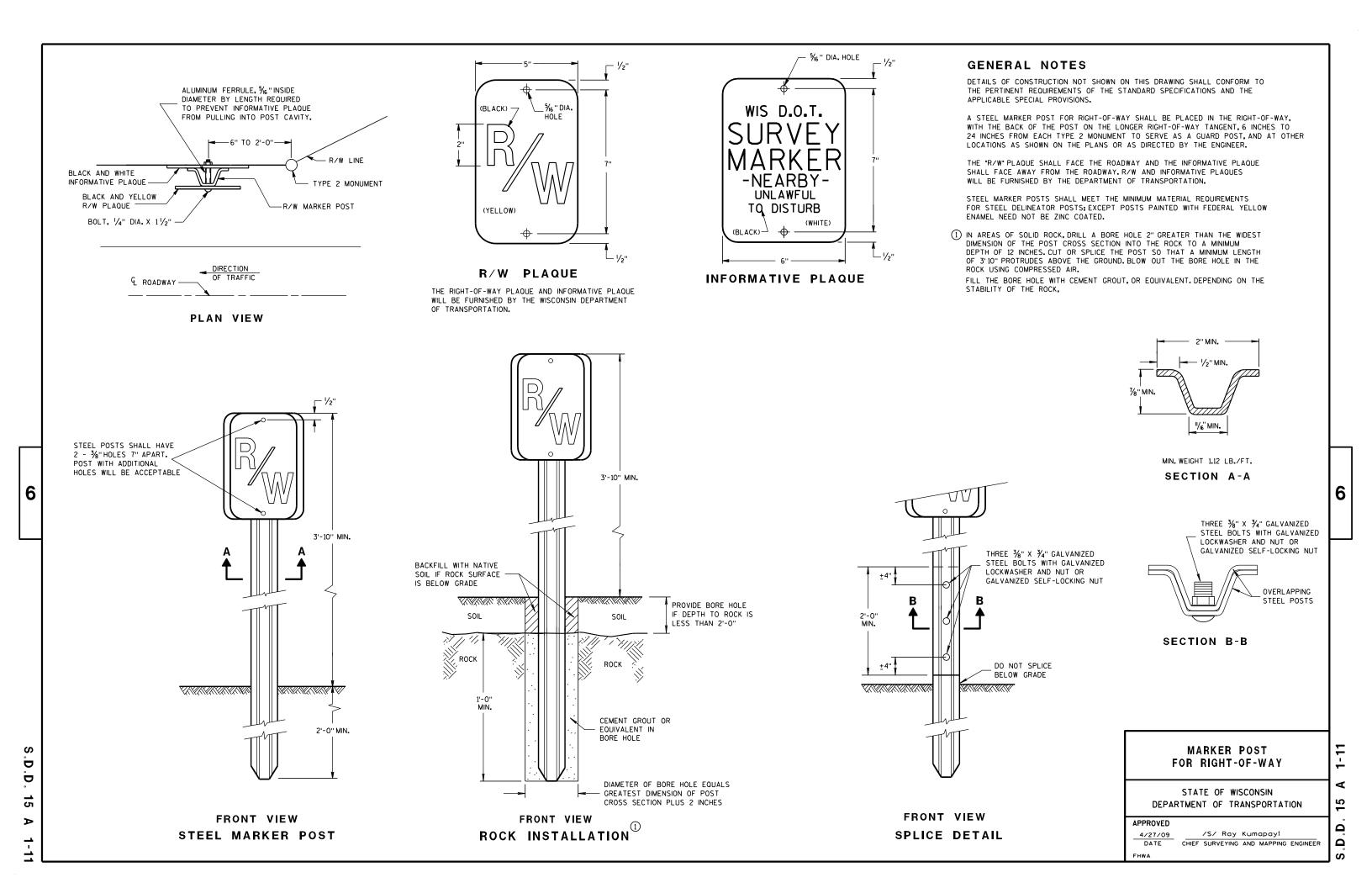










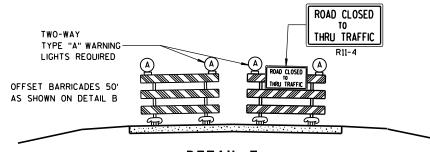




### BRIDGE ROAD 1)TWO-WAY **CLOSED** TYPE "A" WARNING LIGHTS REQUIRED OUTSIDE EDGE OF SHOULDER OUTSIDE EDGE OF SHOULDER OR FACE OF CURB OR FACE OF CURB **DETAIL D**

## ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

#### **GENERAL NOTES**

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

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

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

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

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

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

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

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

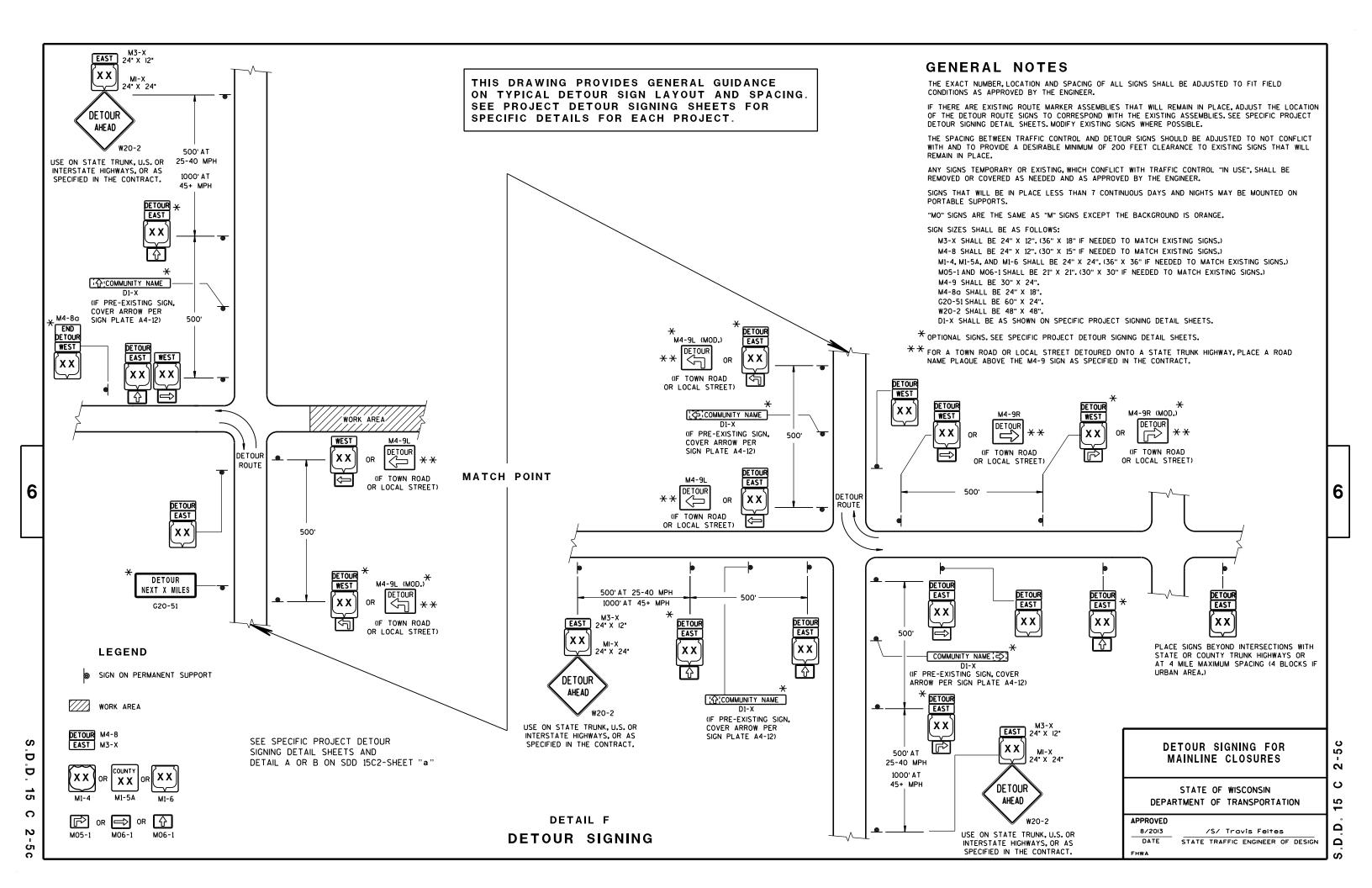
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

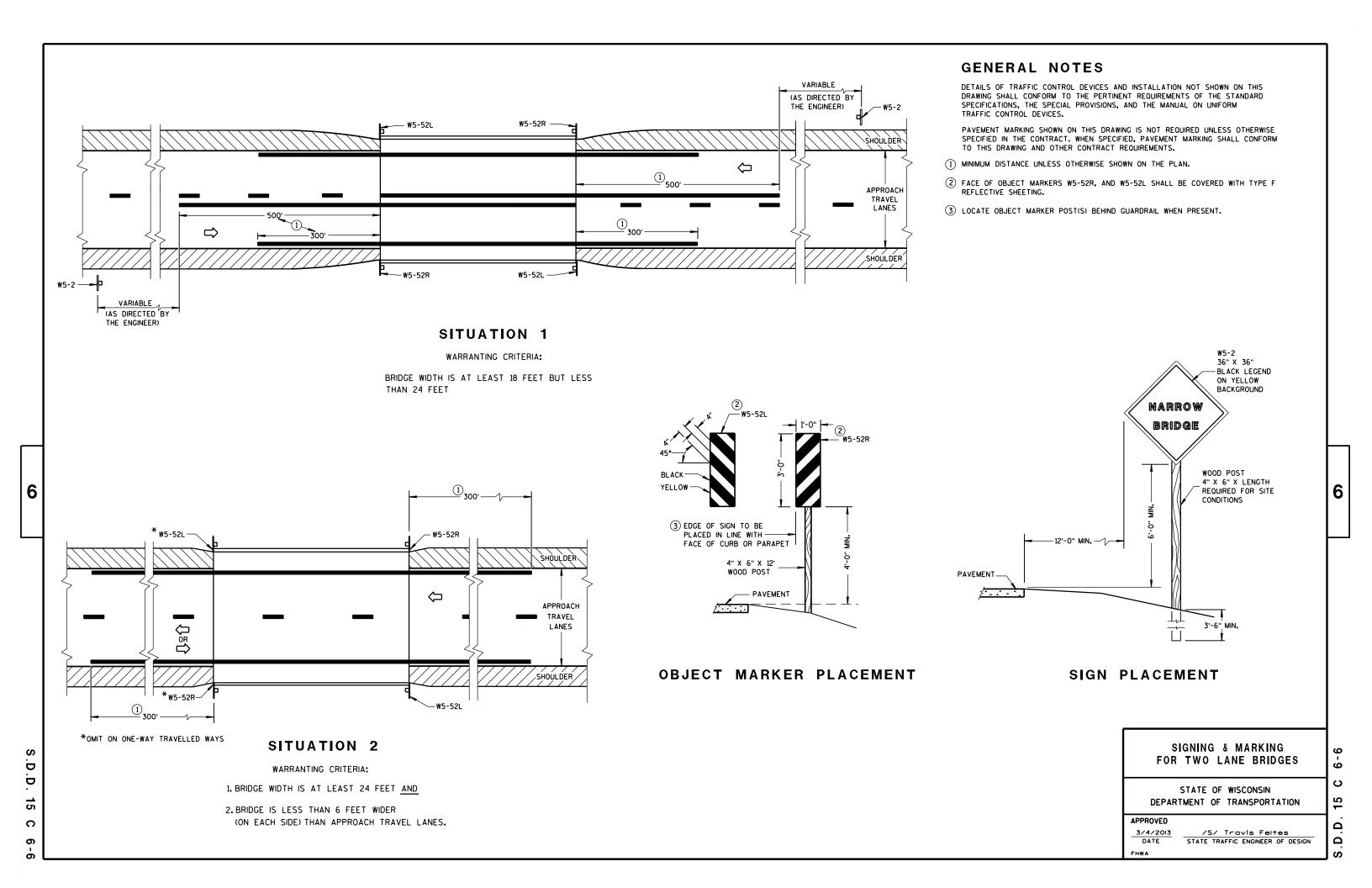
/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

2

2

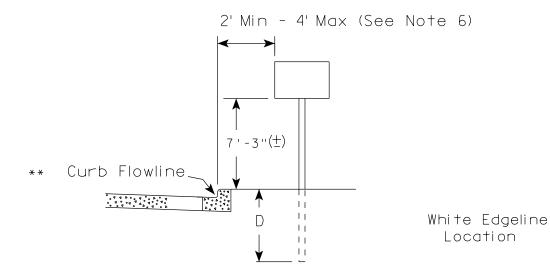
Δ



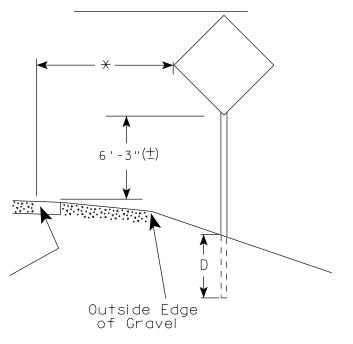




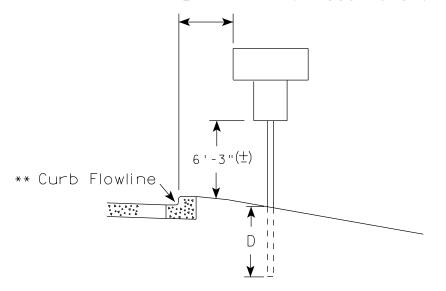
# URBAN ARFA



RURAL AREA (See Note 2)



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



5'-3"(生) White Edgeline  $D^{-1}$ Location Outside Edae 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.

\* 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" (+).
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (+) tolerance for mounting height is 3 inches.
- 8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (+) or as directed by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3'' ( $\pm$ ). 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

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 9/30/13

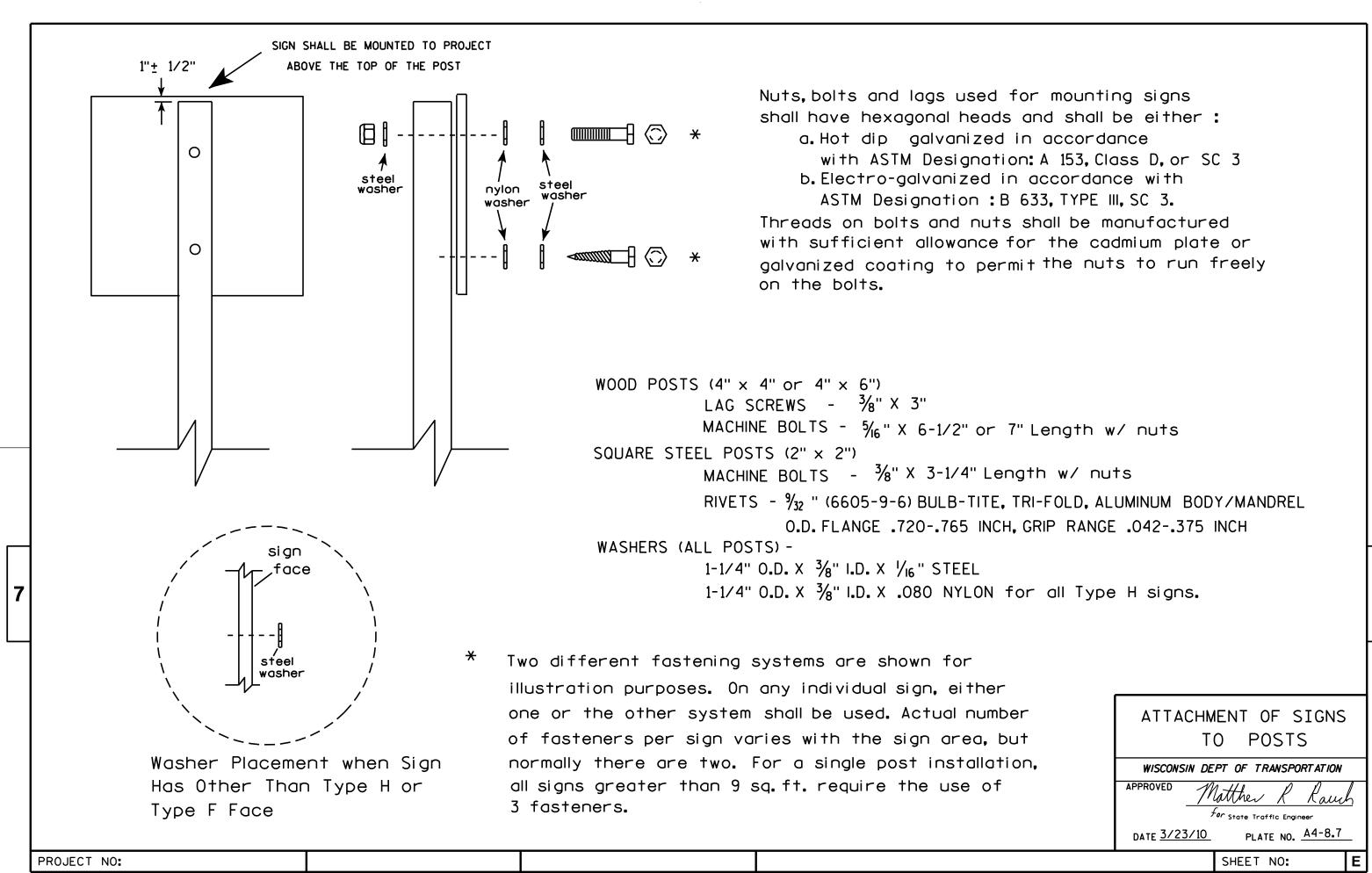
HWY:

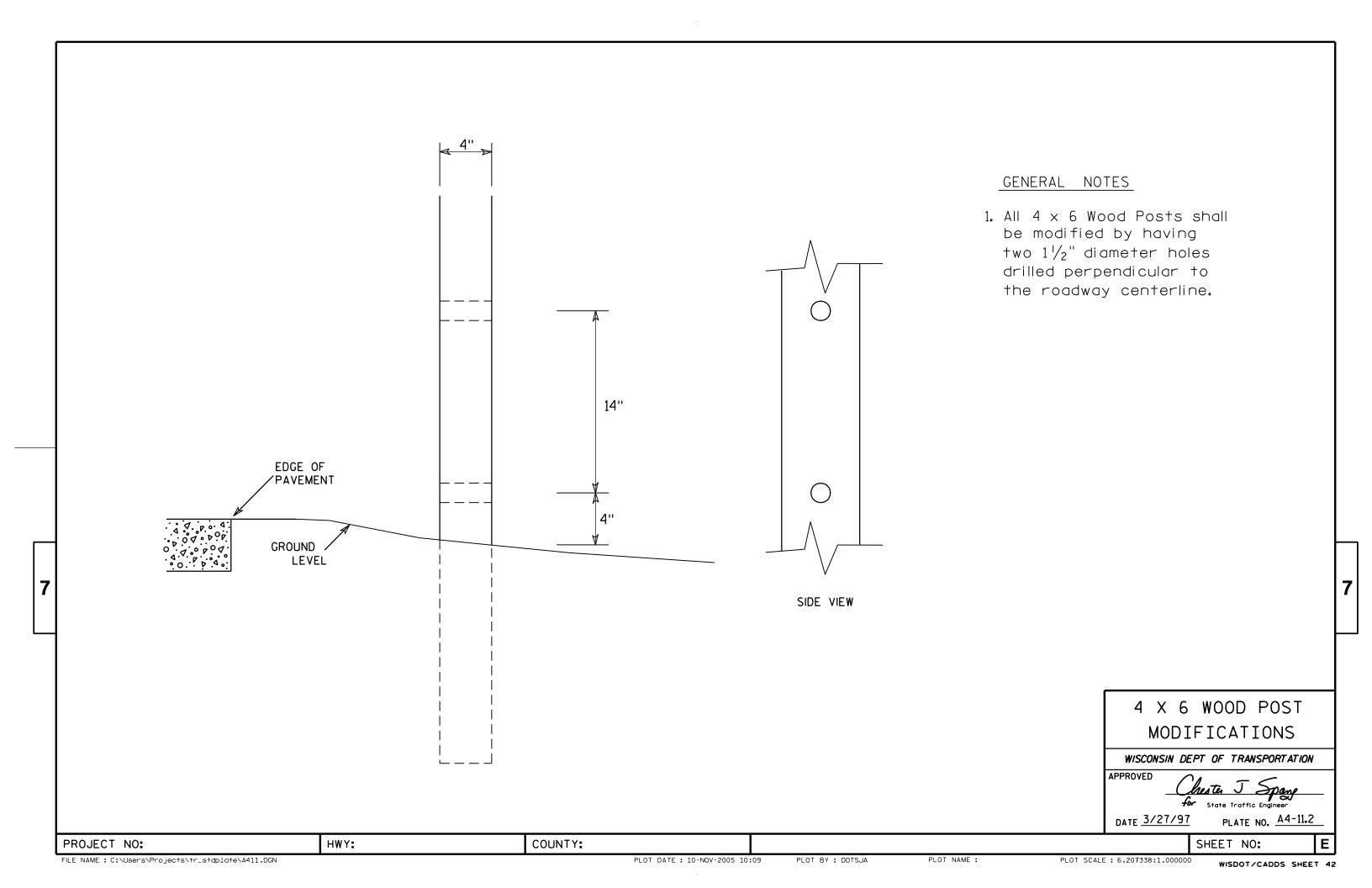
COUNTY:

PLOT NAME :

PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42



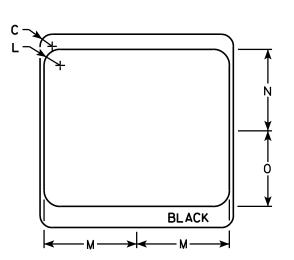


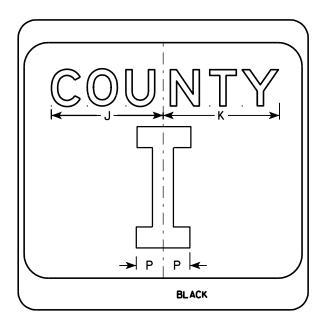
- Sign is Type II see Note 7 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

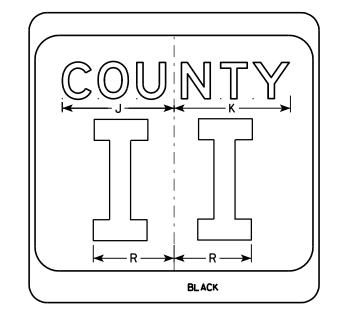
Background - White & Black - See Note 7 Message - Black

- 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	M	N	0	Р	0	R	S	Т	U	٧	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 %	2	11 1/2	10 1/8	9 %	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 %		10									9.0
4	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 %		10									9.0
5	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

COUNTY:

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther K Rauch
Forstore Traffic Engineer

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

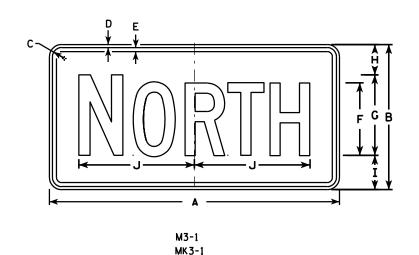
SHEET NO:

PROJECT NO:

**BLACK** 

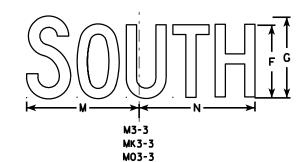
HWY:

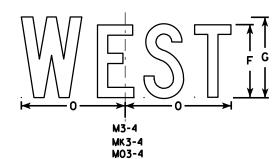
M1-5A



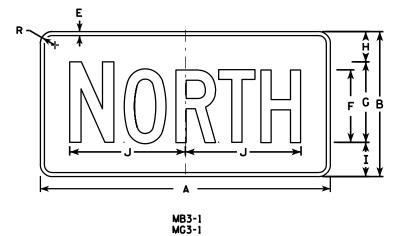
M3-2 M3-2 M03-2

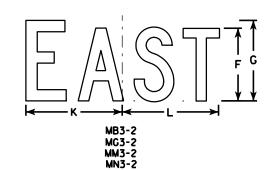
MO3-1





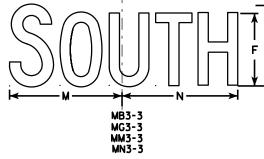
HWY:

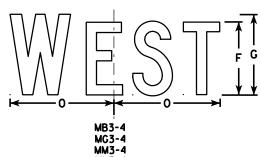




MM3-1

MN3-1





## **NOTES**

- 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	M	N	0	Р	0	R	S	T	U	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 3/4	8 3/4			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

11/10/10 ----- M3-

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

SHEET NO:

PLOT DATE: 10-NOV-2010 09:34

PLOT NAME :

PLOT BY : ditjph

PLOT SCALE: 11.918087:1.000000

- 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 G	
	F + G	B -
✓ A M4-8	<b>Y</b>	

SIZE	А	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3⁄8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 %	14 1/2																		4.5
4																											
5								·	·										·		·	·					

COUNTY:

STANDARD SIGN M4 - 8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer PLATE NO. M4-8.2 DATE 11/10/10

SHEET NO:

PROJECT NO:

HWY:

PLOT NAME :

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.

C	
	G F B
	F G
	<u> </u>
M4 - 8 A	

SIZE	Α	В	С	D	E	F	G	Ι	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

For State Traffic Engineer

DATE 3/9/11

PLATE NO. M4-8A.2 SHEET NO:

PLOT NAME :

PLOT SCALE: 3.972696:1.000000

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\M48A.DGN

HWY:

PLOT DATE: 09-MAR-2011 10:29

PLOT BY: mscj9h

- 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. 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

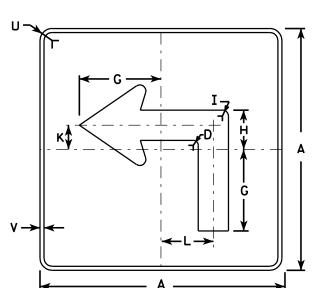
Message - White - Type H Reflective

- 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 →	
I∢	A
	M5-2L
	MK5-2L

MM5-2L M05-2L MP5-2L

MR5-2L



MB5-1L

MG5-1L

MN5-1L

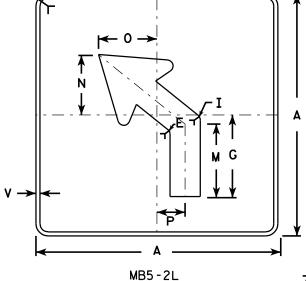
M5-1L

MK5-1L

MM5-1L

MO5-1L MP5-1L

MR5-1L



MG5-2L

MN5-2L

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Areo sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 %	5/8		2 1/8	4 1/2	6 3/8	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	<b>7</b> /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	<b>7</b> /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	<b>½</b>		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
PRO	IECT	NO:					Ш	WY:					COLL	NTY:													
L L L O	ノニしょ	NO.						/V I .						IN I I .													

STANDARD SIGN M5-1 & M5-2

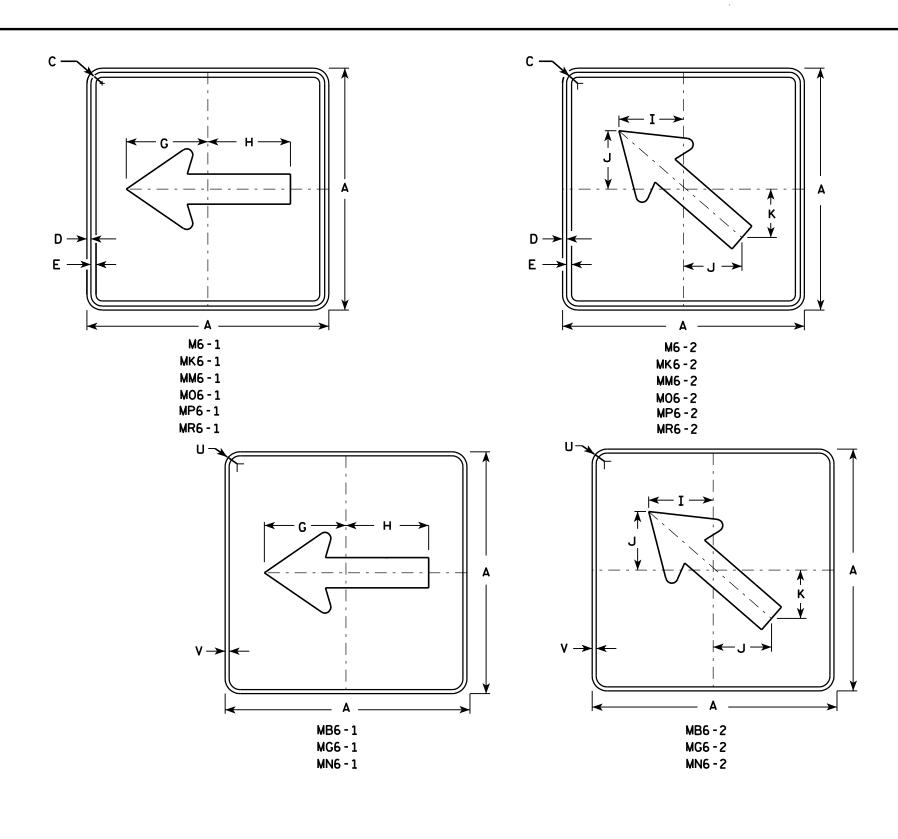
WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 $f_{\it or}$  State Traffic Engineer DATE 7/29/13 PLATE NO. M5-1.12

SHEET NO:

PLOT NAME :



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

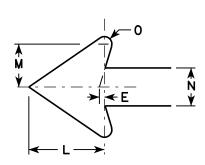
Background - See note 4 Message - See note 4

- 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	E	F	G	H	I	7	K	L	М	N	0	P	0	R	S	T	U	>	W	X	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	₹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 ¾	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	₹4						1 1/8	1/2					6.25

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

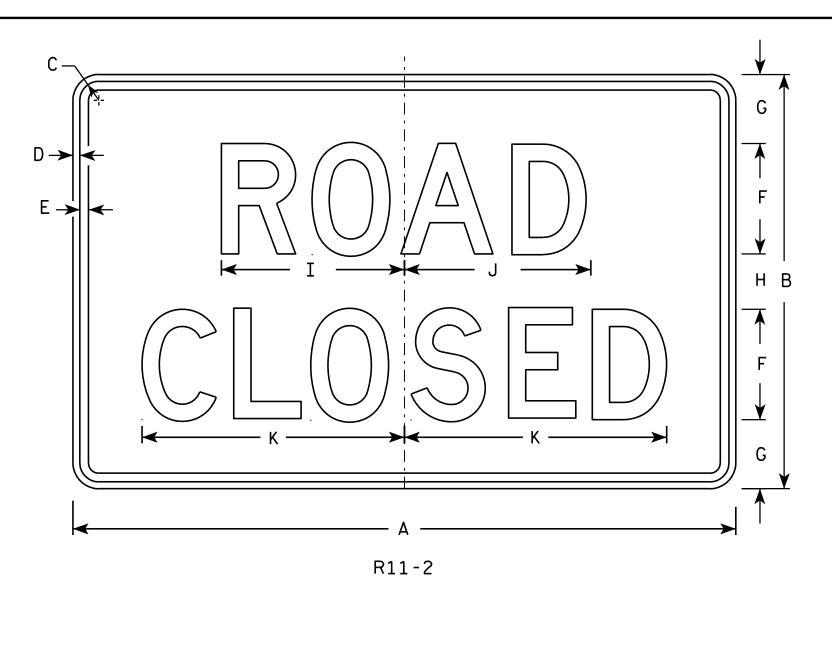
APPROVED

Matther R Rauch

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

SHEET NO:

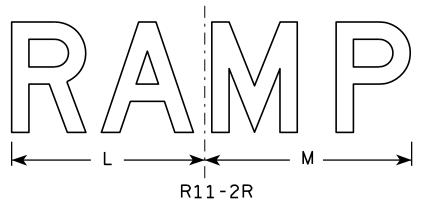
HWY:

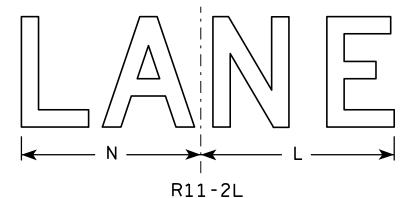


- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Message Series D
- 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. Modify the message as required.





X	Y	Z	Area sq. ft.
			10.0
			10.0

WISCONSIN DEPT OF TRANSPORTATION

Matthew & Raux

DATE 4/1/11 PLATE NO. R11-2.10

STANDARD SIGN

R11-2

SHEET NO:

SIZE	Α Ι	В	_	D	F	F	G	ш	Т Т		- к	ı	м	N	<u> </u>	P	<u> </u>	R		т	11	v	w	x	V I	7	Area sq. ft.
1					_	•			_	3		_		.,		'			3			•					SQ. TT.
25	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

COUNTY:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R112.DGN

HWY:

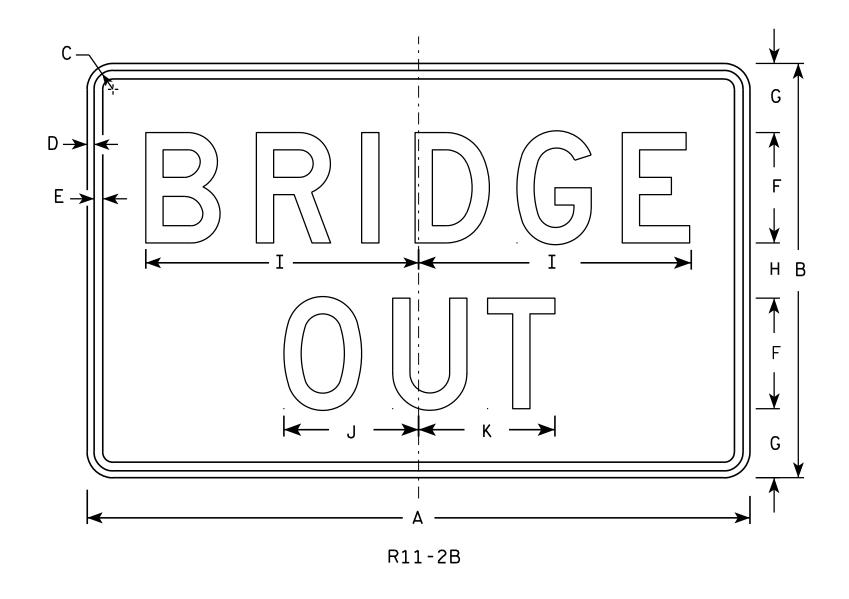
PROJECT NO:

PLOT BY: mscj9h

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

Background - White Message - Black

- 3. Message Series D
- 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.



SIZE G S 1 3/8 1/2 5/8 48 30 19 34 9 34 9 38 10.0 2M 5/8 1/2 48 30 1 3/8 5 19 34 9 34 9 78 10.0 3 5/8 1 3/8 1/2 19 3/4 9 3/4 9 3/8 48 30 5 10.0 5/8 19 3/4 9 3/4 9 1/8 4 1 3/8 1/2 48 30 10.0 5 19 3/4 9 3/4 9 3/8 1 3/8 5/8 48 30 10.0

STANDARD SIGN R11-2B

WISCONSIN DEPT OF TRANSPORTATION

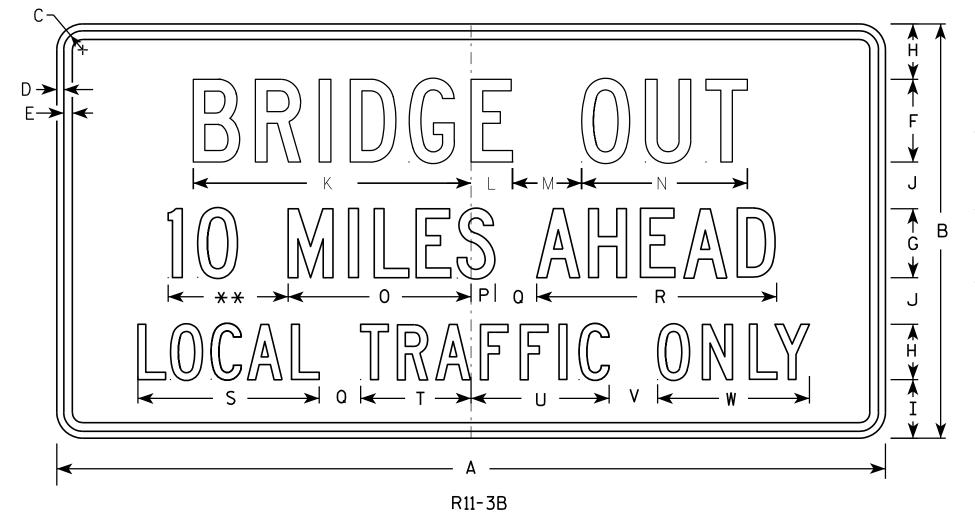
Matther R Rauh

For State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2B.2

TE 471711 PLATE NO. 1111

SHEET NO:



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

Background - White Message - Black

- 3. Message Series 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.

\*\* See Note 5

PLOT NAME :

PROJECT NO:						HWY:	Y:			С	COUNTY:																
5																											
4																											
3																											
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 ½	11				12.5
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 ½	11				12.5
1	36	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 ¾				4.5
SIZE	A	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	T	U	٧	₩	X	Υ	Z	Arec sq. fi

STANDARD SIGN R11-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Raug For State Traffic Engineer PLATE NO. R11-3B.2 DATE 4/1/11

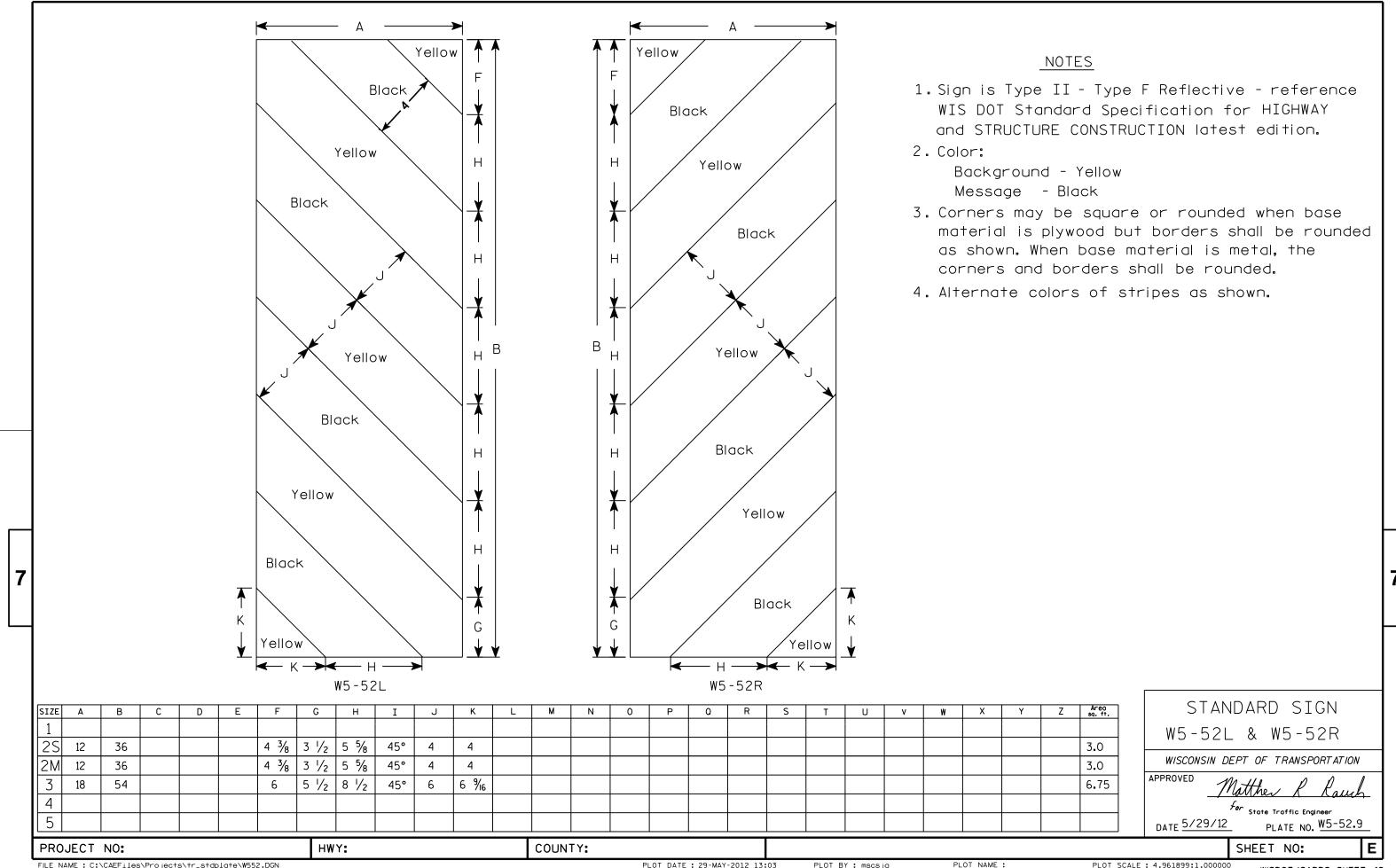
SHEET NO:

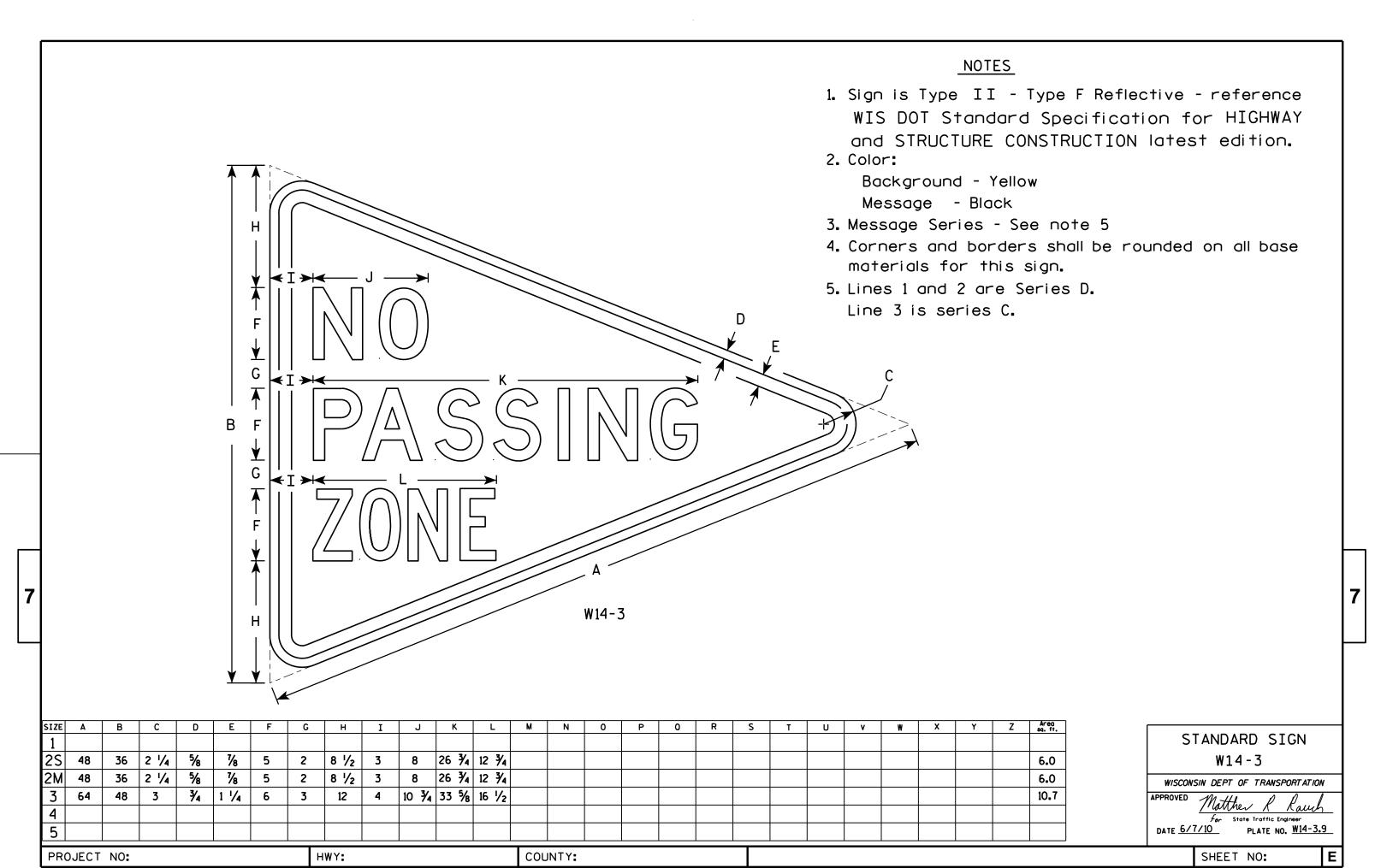
FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R113B.DGN

PLOT DATE: 01-APR-2011 14:17

PLOT BY: mscj9h

PLOT SCALE: 6.952219:1.000000





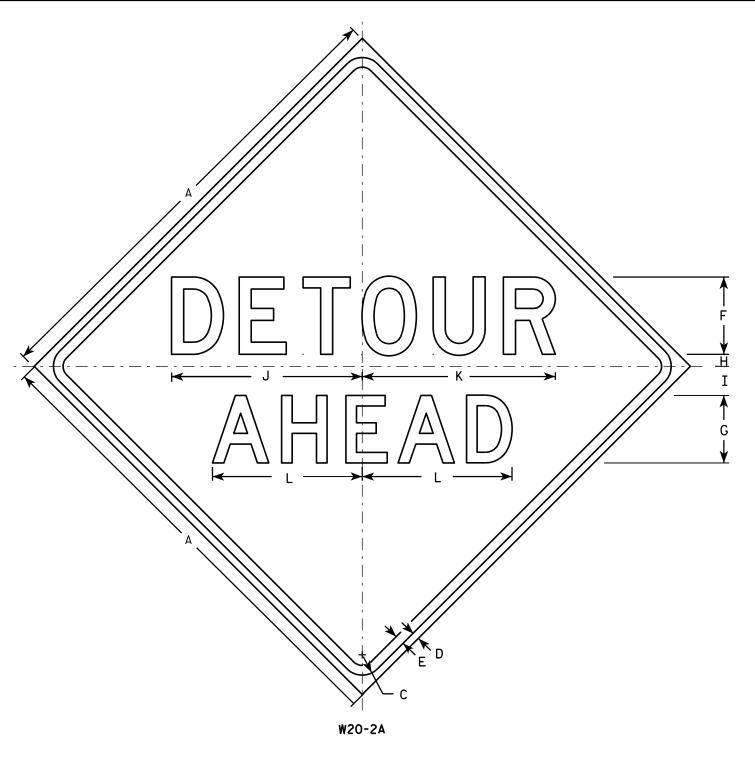
FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W143.DGN

PLOT DATE : 07-JUN-2010 13:11

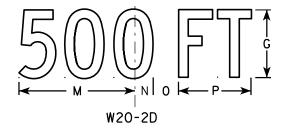
PLOT BY : ditjph

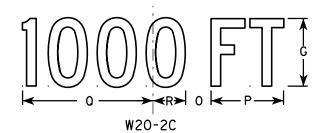
PLOT NAME :

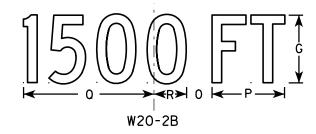
PLOT SCALE: 5.710749:1.000000

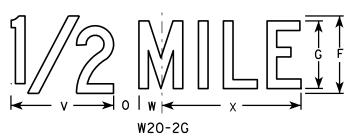


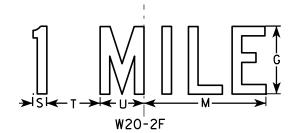
HWY:











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	A	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 5/8	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
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 5/8	7 1/2	13 1/2	3 %	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 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
4	48		2 1/4	¾	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 %	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 %	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:

TE 37 107 11 PLATE NO. W20-2.0

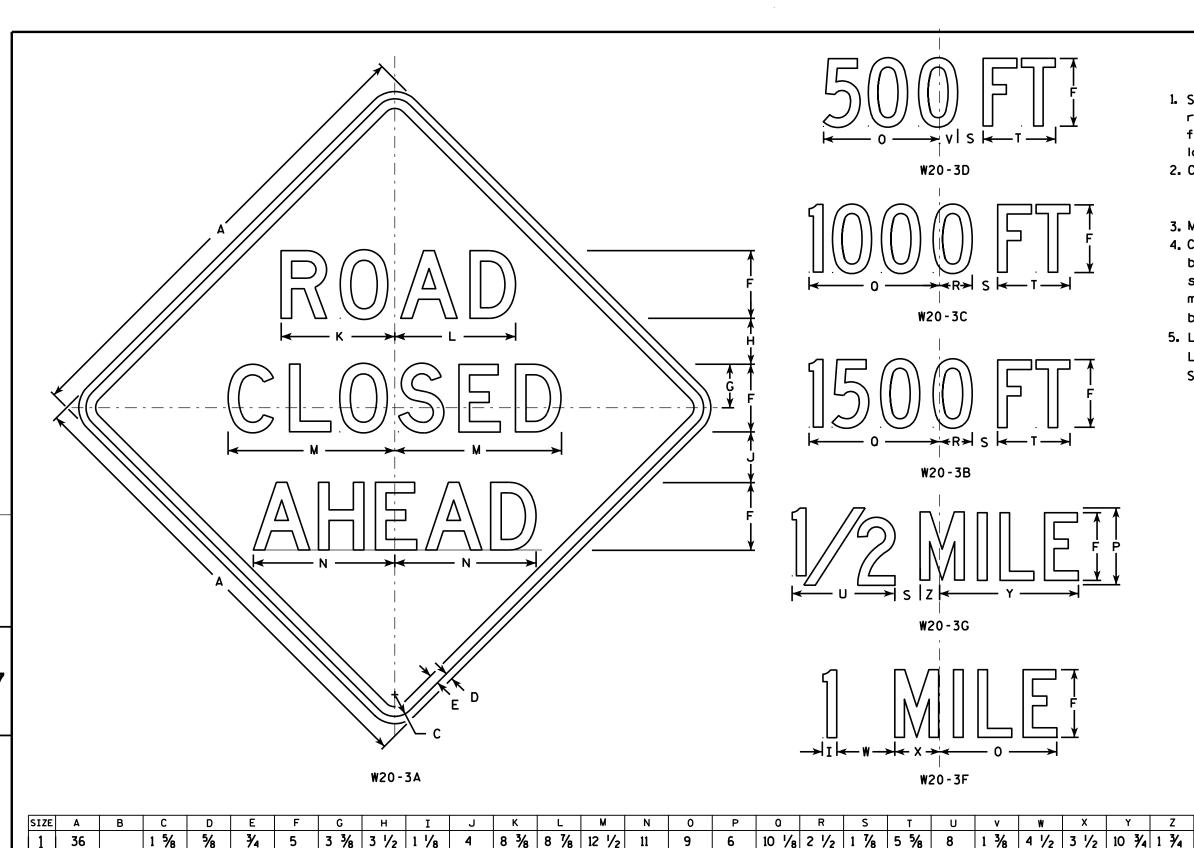
FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W202.DGN

PROJECT NO:

PLOT DATE: 18-MAR-2011 10:00

PLOT NAME :

PLOT SCALE: 9.931739:1.000000



- 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.

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Lawn
For Store Traffic Engineer

DATE 3/18/11 PLATE NO. W20-3.7

SHEET NO: E

3/4 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 13 1/2 3 3/8 2 5/8 4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0 7 1/2 10 5/8 1 7/8 48 5 4 5/8 14 3/8 2 3/8 16.0 3/4 2 1/4 4 1/2 | 4 3/4 | 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 | 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 48 PROJECT NO: HWY: COUNTY:

| 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W203.DGN

2M

48

48

3/4

3/4

3/4

PLOT DATE: 18-MAR-2011 12:08

PLOT NAME :

7 1/2 10 5/8 1 7/8

PLOT BY: mscj9h

10 % 1 %

7 1/2

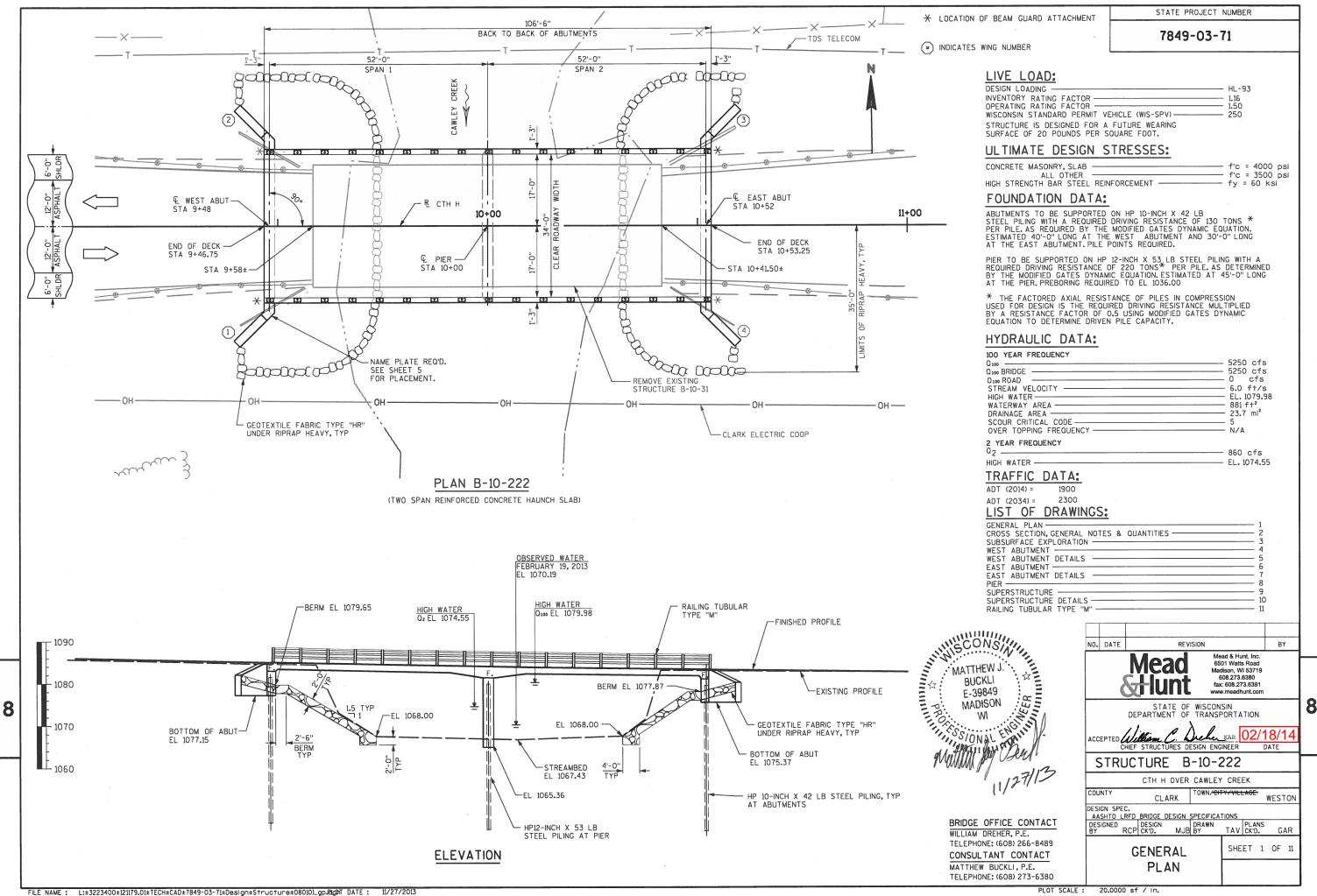
13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8

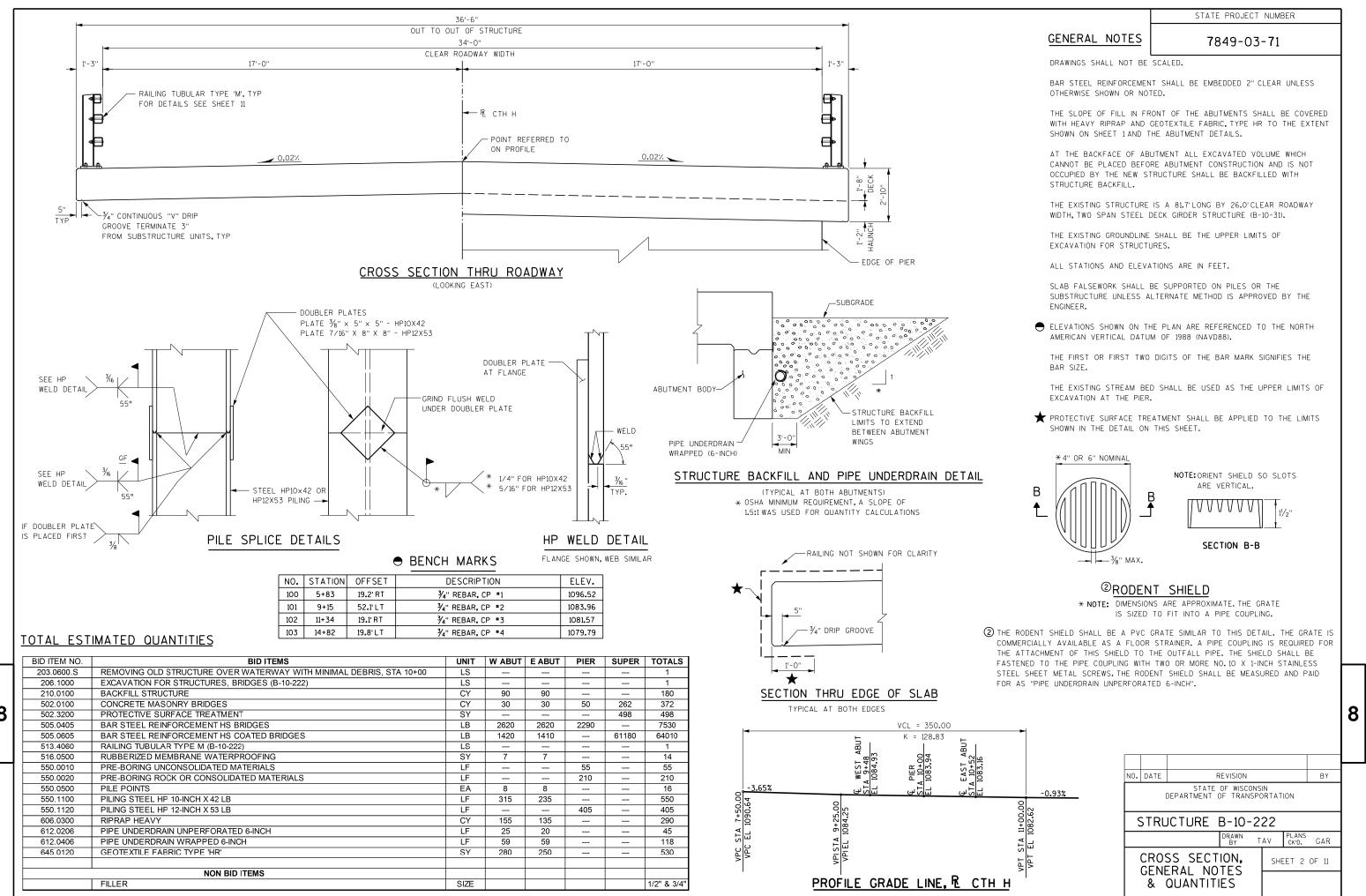
4 \( \frac{5}{8} \) 14 \( \frac{3}{8} \) 2 \( \frac{3}{8} \) 16.0

4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0

4 % | 14 % | 2 % | 16.0

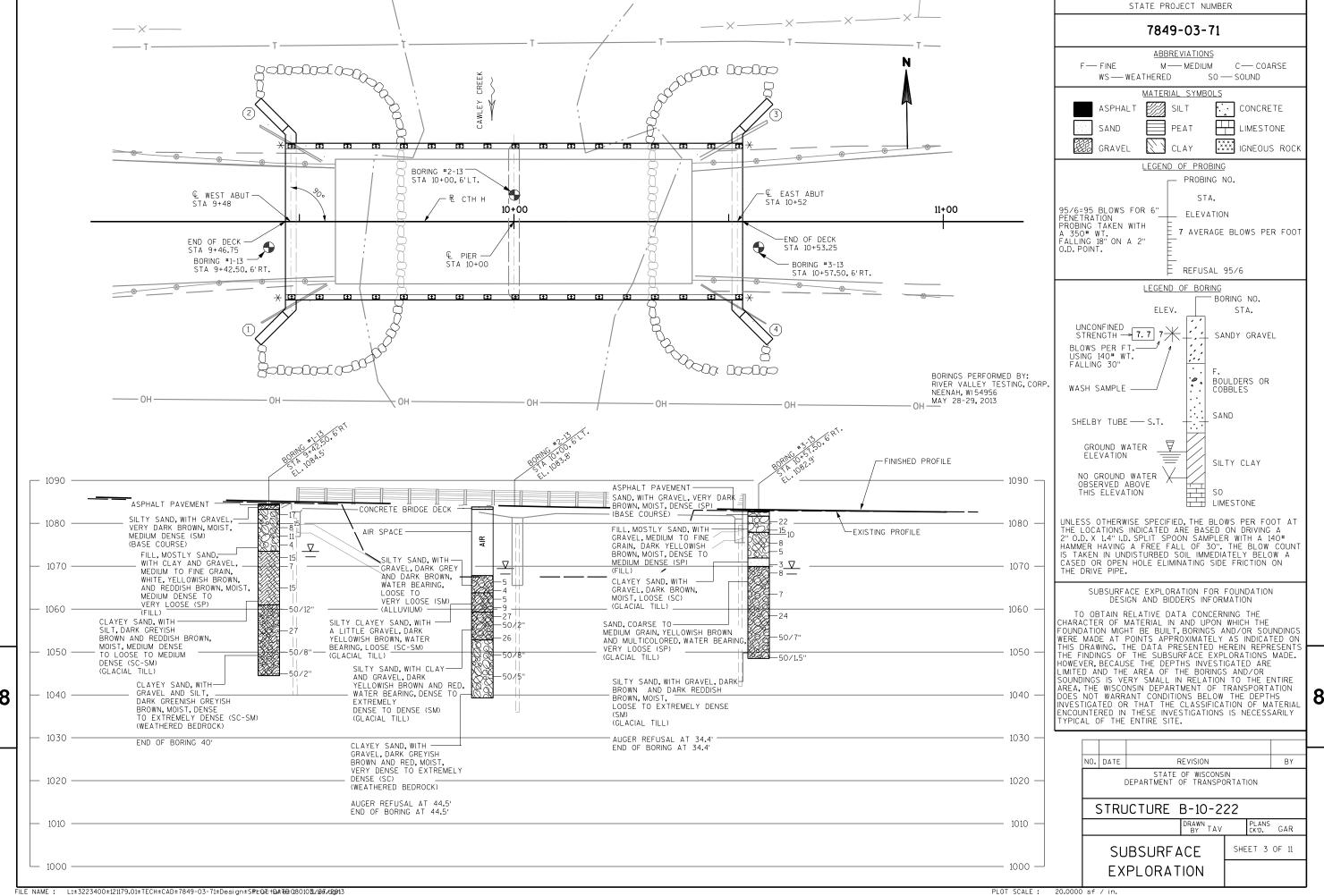
PLOT SCALE: 9.931739:1.000000

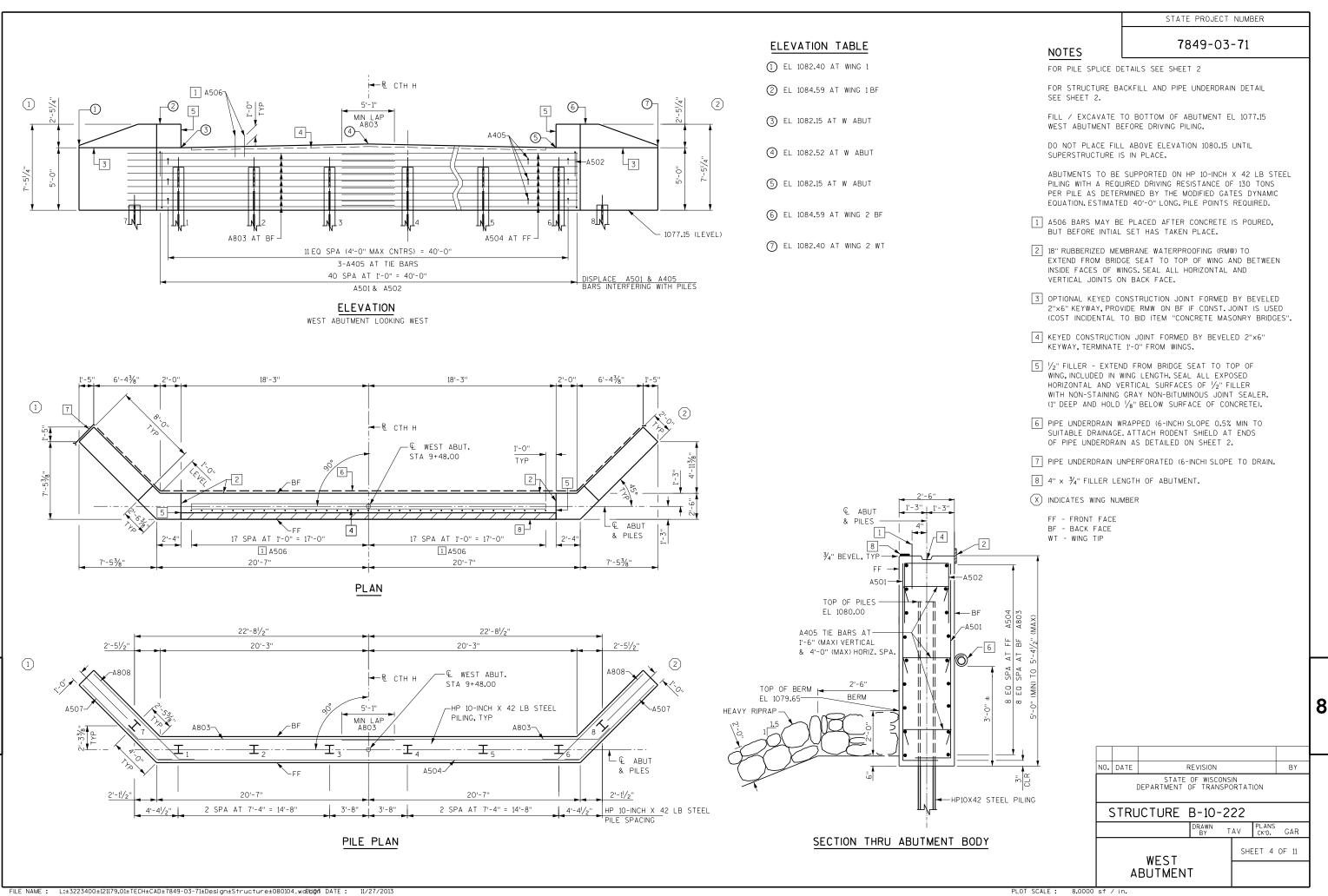




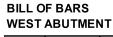
FILE NAME: L:: \$223400 + 121179.01 + TECH + CAD + 7849 - 03 - 71 + Design + S + ruc + ure + 080102 - t + Rttg/T DATE: 11/27/2013

PLOT SCALE: 4.0000 sf / in.

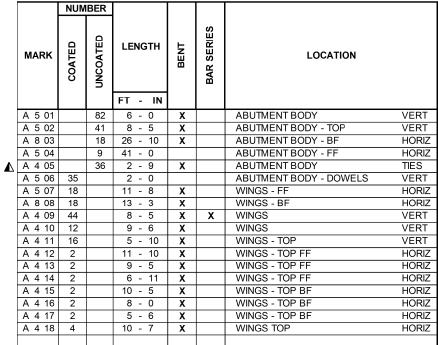




7849-03-71



COATED= 1420 LBS UNCOATED= 2620 LBS



BAR DIMENSIONS IN BENDING ARE OUT TO OUT OF BARS.

ALL REINFORCING BARS ARE ENGLISH.

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

#### BAR SERIES TABLE

MARK	NO. REQUIRED	LENGTH
A409	4 SERIES OF 11	7'-4" TO 9'-5"

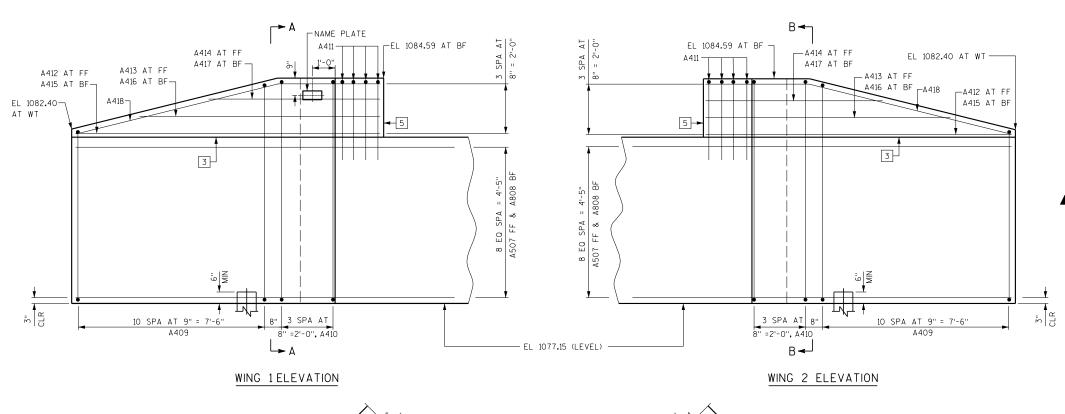
#### BUNDLE AND TAG EACH SERIES SEPARATELY

- ▲ LENGTH SHOWN IS AN AVERAGE LENGTH USED FOR CALCULATING BAR WEIGHT ONLY. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.
- ¾" "V" GROOVE ON FF.
- 3 OPTIONAL KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2" X 6" KEYWAY, PROVIDE RMW OF BF IF OPTIONAL CONST. JOINT IS USED (COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES".
- [5] 1/2" FILLER EXTEND FROM BRIDGE SEAT TO TOP OF WING, INCLUDED IN WING LENGTH. SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF "FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE).

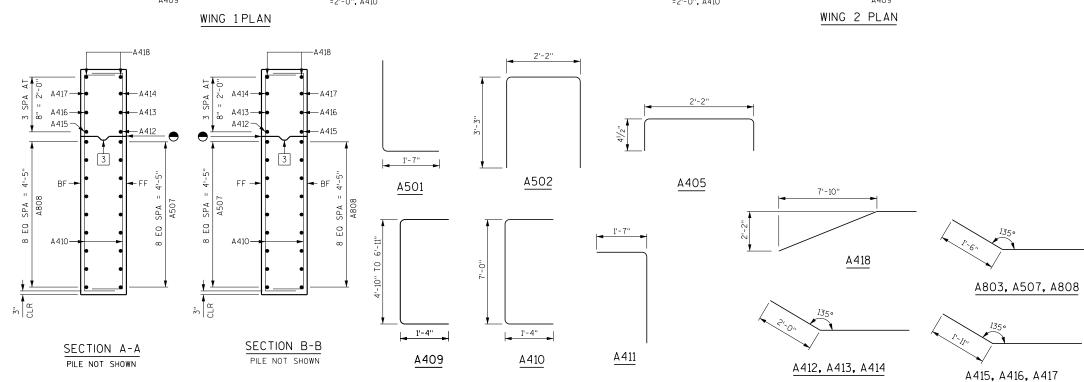
FF - FRONT FACE BF - BACK FACE WT - WING TIP

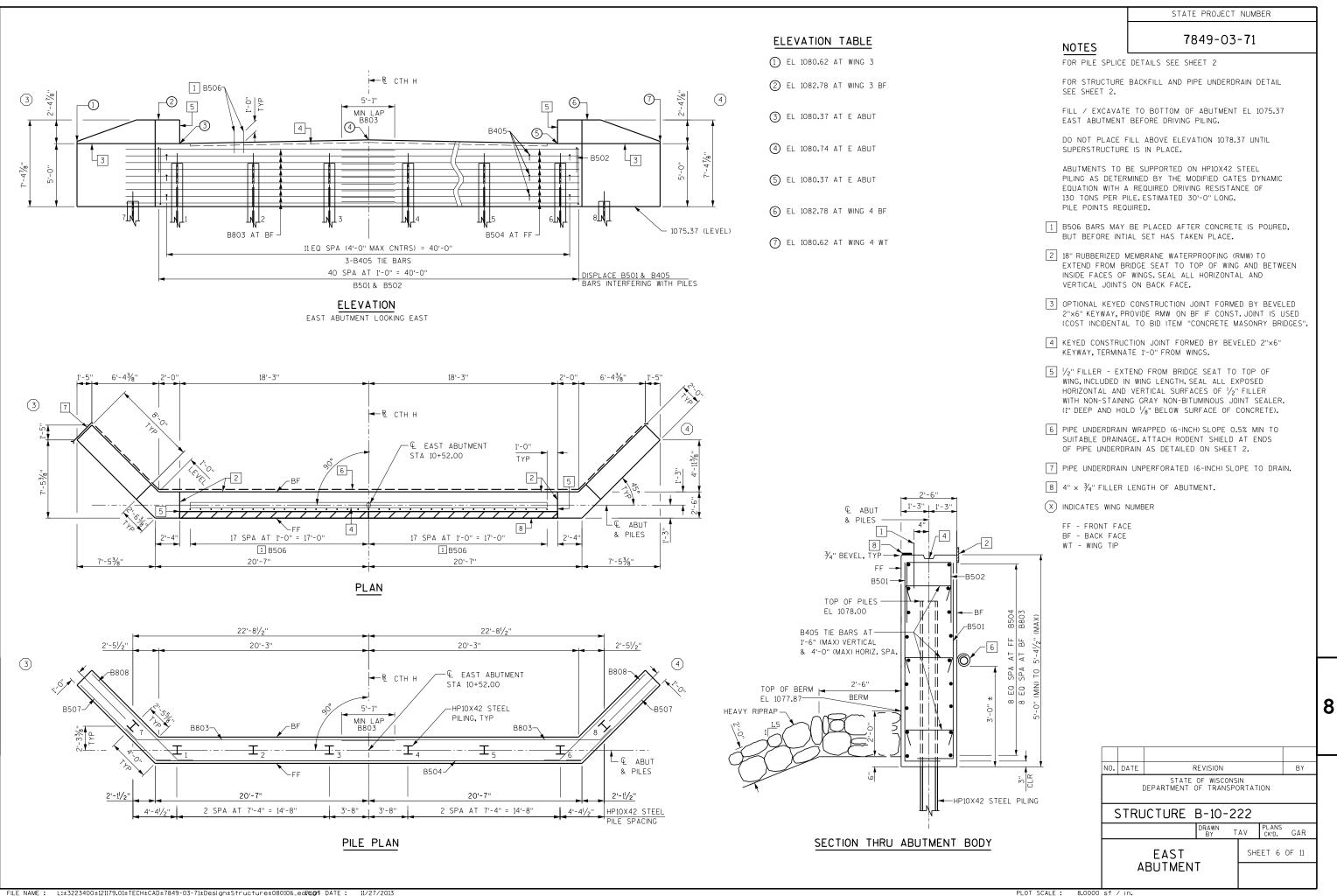
NO.	DATE		F	REVISION			Е	3Y				
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION											
	STRUCTURE B-10-222											
				DRAWN BY	TAV	PLANS CK'D.		GAR				
\ \	WEST ABUTMENT SHEET 5											
	I	DE										

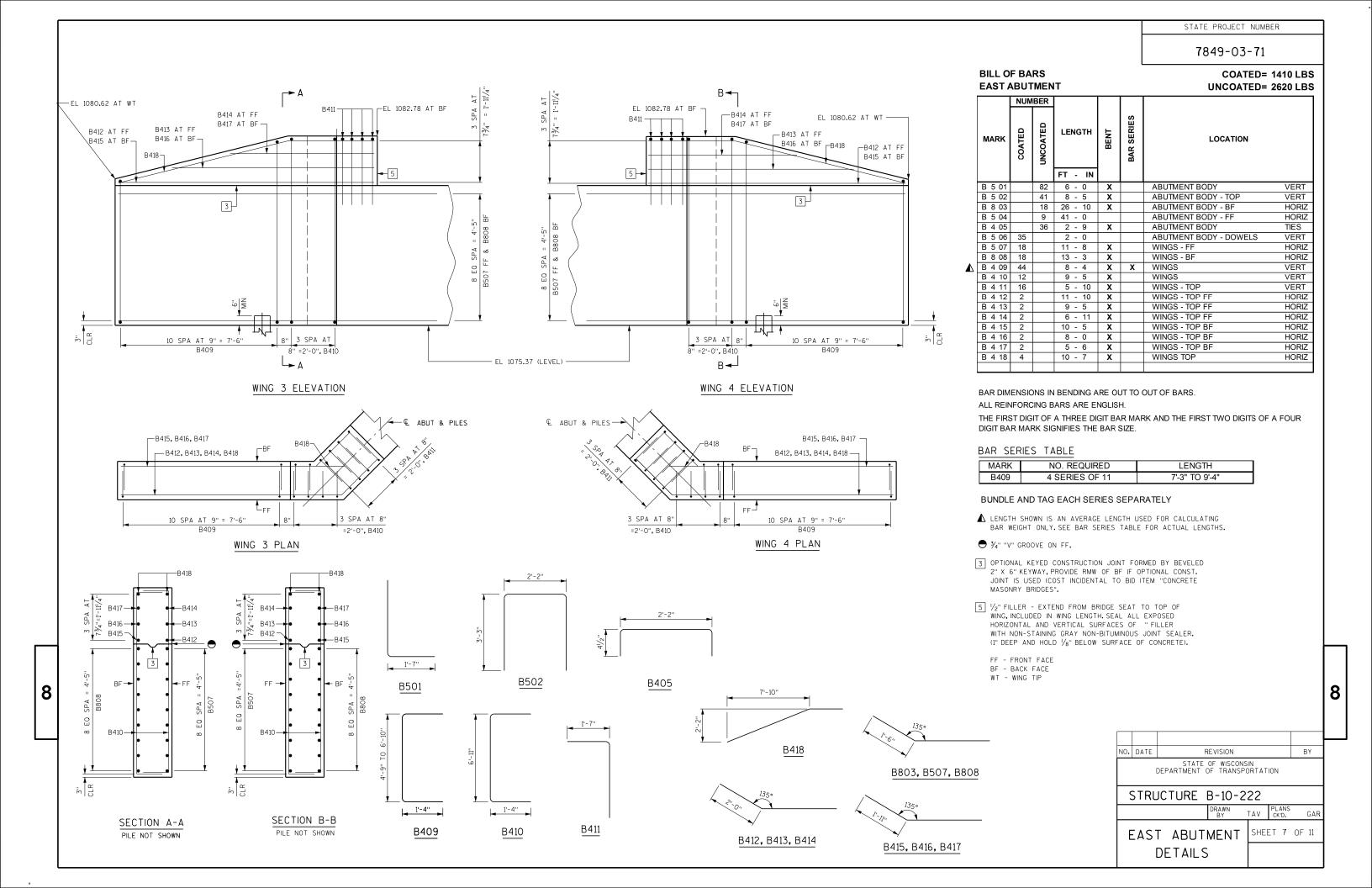
8

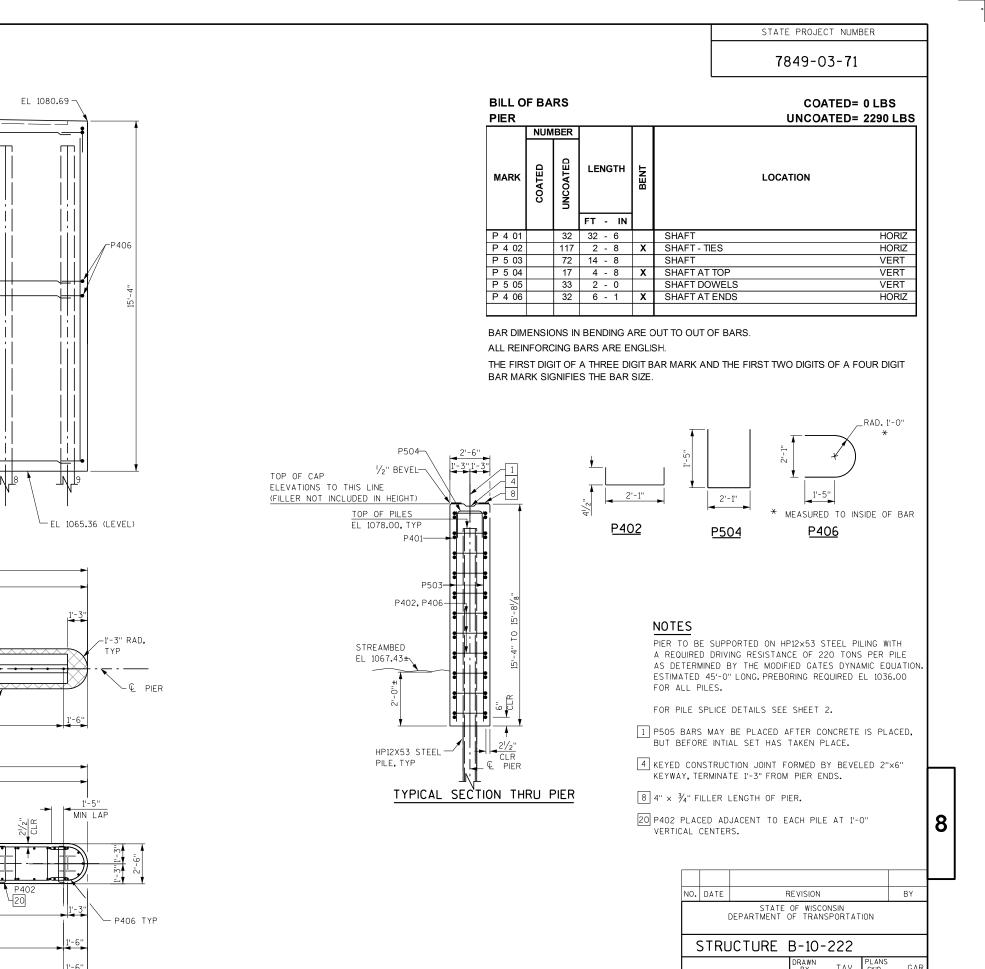












TOP OF PILES EL 1078.00

EL 1081.04

**ELEVATION** 

(LOOKING EAST)

32 SPA AT 1'-0" = 32'-0"

<u>PLAN</u>

35'-0"

8 SPA AT 4'-03/4" = 32'-6" HP12×53 STEEL PILES

32 SPA AT 1'-0" = 32'-0"

P503

PILE AND REINFORCEMENT PLAN

16 SPA AT 2'-0" = 32'-0"

35'-0"

— R стн н

**-**-№ стн н

17'-6"

17'-6"

└P401

— EL 1080.69

-HP12X53 STEEL PILING, TYP

17'-6"

17'-6"

HP12X53 STEEL

P504 TYP\_/

PILING, TYP

€ PIER

€ PIER

STA 10+00.00-

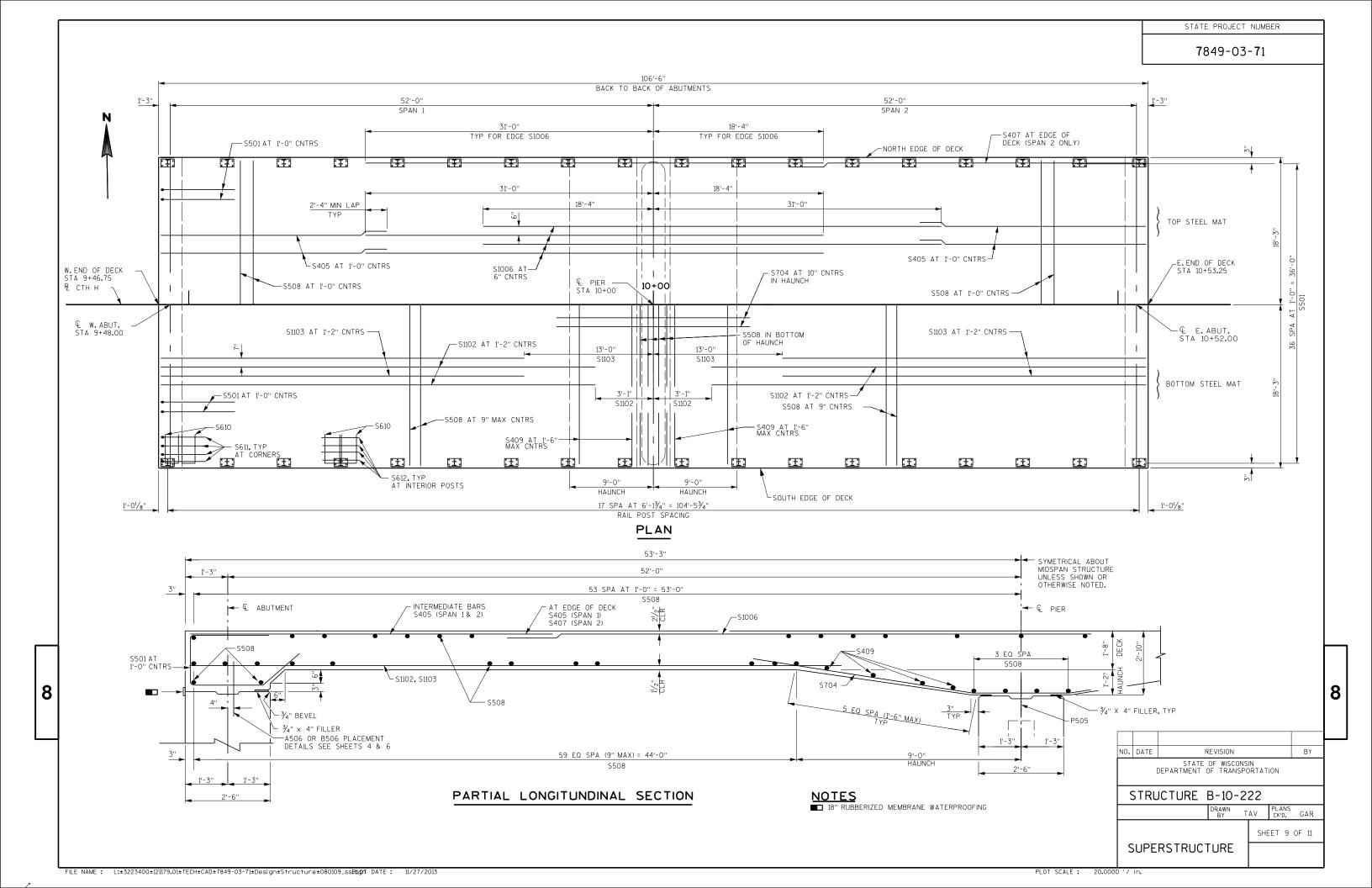
STA 10+00.00-

SPA (1'-0" MAX) = P401 & P406

15 EQ

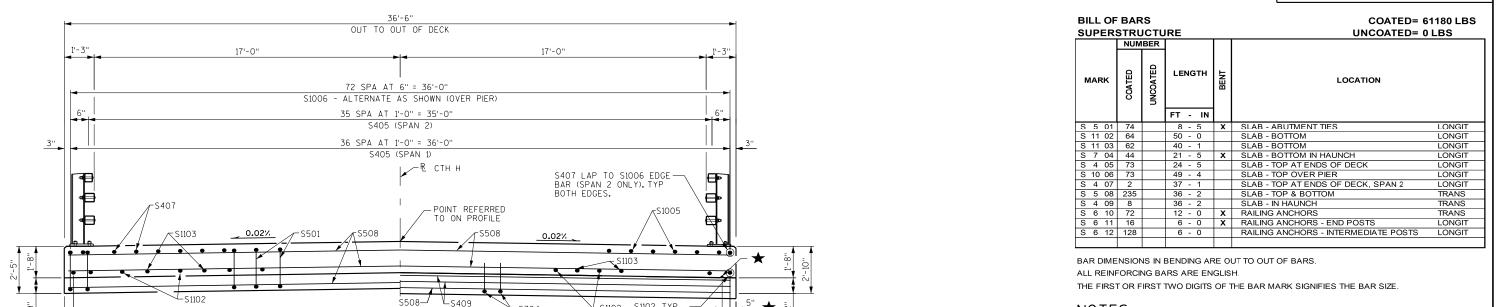
€ PIER

TAV PLANS SHEET 8 OF 11 **PIER** 



STATE PROJECT NUMBER

7849-03-71



S1102, TYP BOTH EDGES

0.1 0.2 0.3

0.4

0.5

0.6

0.7

0.8

0.9

PIER

0.1

0.2

0.3

0.4

0.5

0.6

0.7

0.8

0.9

E ABUT

0

L S1102

-S704

AT PIER

NOTES

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

TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

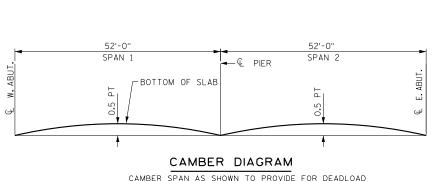
★ ¾" V-GROOVE.TERMINATE 3" CHAMFER AT ABUTMENTS, TYP. SEE DETAIL THIS SHEET.

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE  ${\mathbb Q}$  OF ABUTMENTS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF DECK AND AT  ${\mathbb Q}$  .

SPAN POINT	NORTH	H EDGE	R/L (	CTH H	SOUTH EDGE			
SPAN FOINT	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION		
W ABUT	9+48.00	1084.57	9+48.00	1084.93	9+48.00	1084.57		
0.1	9+53.20	1084.46	9+53.20	1084.82	9+53.20	1084.46		
0.2	9+58.40	1084.35	9+58.40	1084.72	9+58.40	1084.35		
0.3	9+63.60	1084.25	9+63.60	1084.61	9+63.60	1084.25		
0.4	9+68.80	1084.15	9+68.80	1084.51	9+68.80	1084.15		
0.5	9+74.00	1084.05	9+74.00	1084.41	9+74.00	1084.05		
0.6	9+79.20	1083.95	9+79.20	1084.31	9+79.20	1083.95		
0.7	9+84.40	1083.85	9+84.40	1084.22	9+84.40	1083.85		
0.8	9+89.60	1083.76	9+89.60	1084.12	9+89.60	1083.76		
0.9	9+94.80	1083.66	9+94.80	1084.03	9+94.80	1083.66		
PIER	10+00.00	1083.58	10+00.00	1083.94	10+00.00	1083.58		
0.1	10+05.20	1083.49	10+05.20	1083.85	10+05.20	1083.49		
0.2	10+10.40	1083.40	10+10.40	1083.77	10+10.40	1083.40		
0.3	10+15.60	1083.32	10+15.60	1083.68	10+15.60	1083.32		
0.4	10+20.80	1083.24	10+20.80	1083.60	10+20.80	1083.24		
0.5	10+26.00	1083.16	10+26.00	1083.52	10+26.00	1083.16		
0.6	10+31.20	1083.08	10+31.20	1083.44	10+31.20	1083.08		
0.7	10+36.40	1083.00	10+36.40	1083.37	10+36.40	1083.00		
0.8	10+41.60	1082.93	10+41.60	1083.30	10+41.60	1082.93		
0.9	10+46.80	1082.86	10+46.80	1083.23	10+46.80	1082.86		
E ABUT	10+52.00	1082.79	10+52.00	1083.16	10+52.00	1082.79		

 $\star$ CHAMFER BF ABUT -FF ABUT

DRIP GROOVE DETAIL AT ABUTMENT



DEFLECTION & FUTURE CREEP. CAMBER DOES NOT

INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

36 SPA AT 1'-0" = 36'-0"

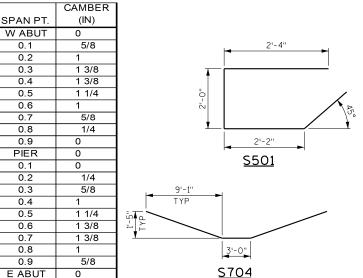
S501 (ABUTMENTS) 62 EQ SPA (7" MAX) = 36'-0"

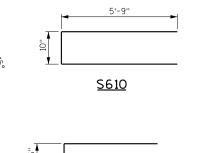
S1102 & S1103 - ALTERNATE AS SHOWN (SPANS 1 & 2) 43 SPA AT 10" = 35'-10"

S704 (PIER HAUNCHES)

CROSS SECTION THRU ROADWAY (LOOKING EAST)

		_	_	
ΑD				
AU				





<u>S611</u>

NO. DATE STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-10-222

SHEET 10 OF 11 SUPERSTRUCTURE

FILE NAME: L:±3223400±121179.01±TECH±CAD±7849-03-71±Design±Structure±080110\_ss.@g@T DATE: 11/27/2013

AT ABUTMENTS

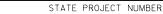
PLOT SCALE: 4.0000 '/ in.

8

BY

TAV PLANS CK'D. GAR

DETAILS



7849-03-71

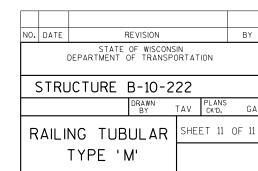
#### **LEGEND**

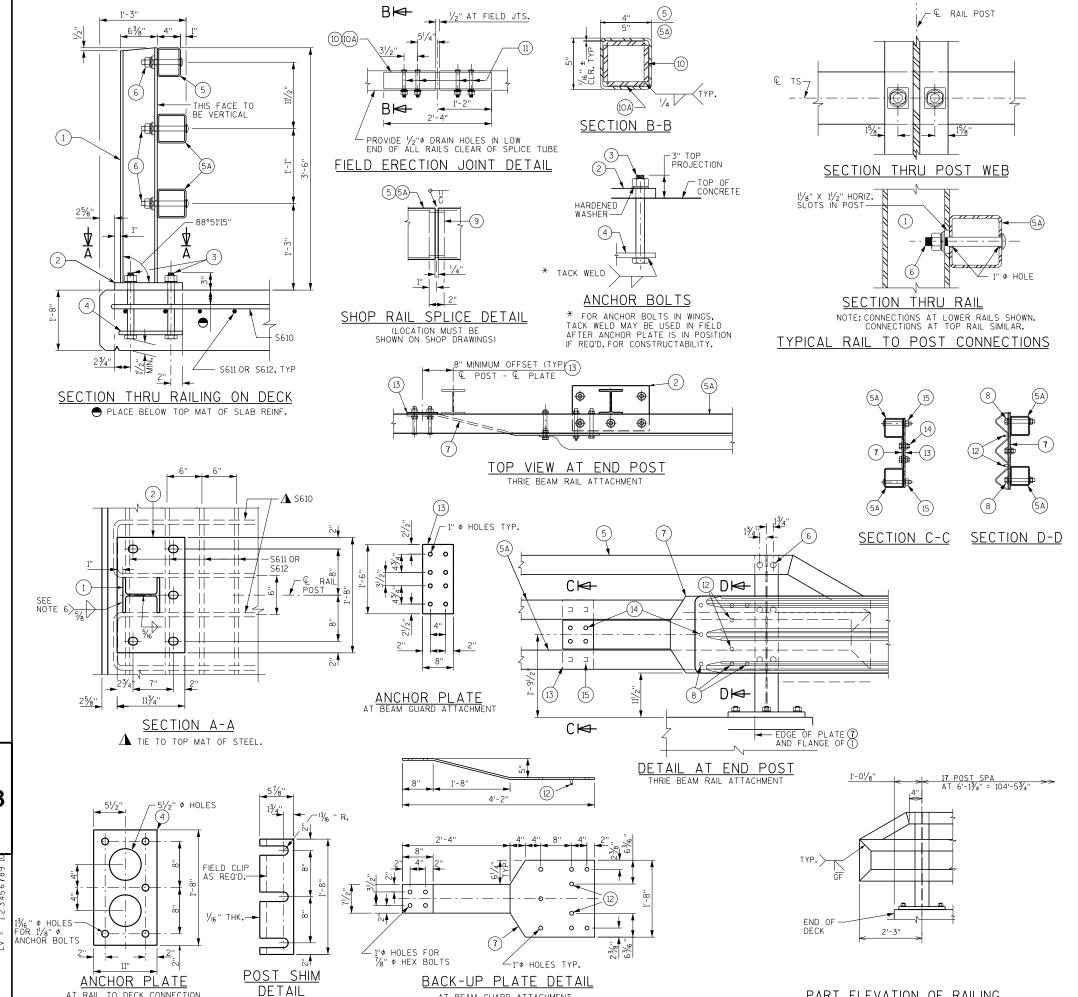
- $\stackrel{\textstyle \frown}{}$  W6  $\times$  25 With 1½,8" X 1½" HORIZ. SLOTS ON EACH SIDE OF POST FOR BOLT NO.6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.
- (2) PLATE  $1^1/4^n \times 11^3/4^n \times 1^1-8^n$  with  $1^5/6^n \times 1^5/6^n$  slotted holes for anchor bolts no. 3. Weld to no. 1 as shown. Slots parallel to short side of plate.
- (3) ASTM A449 1/8" DIA, ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REG'D, PER POST, THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING, USE 1'-3" LONG IN SLAB. (AN EQUIVALENT THREADED ROD WITH NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS IF REQ'D. FOR CONSTRUCTABILITY.)
- 4  $\%"\times$  11"  $\times$  1'-8" ANCHOR PLATE (GALVANIZED) WITH  $1\%_6$  " DIA. HOLES FOR ANCHOR BOLTS NO. 3
- (5) TS 5  $\times$  4  $\times$  0.25 STRUCTURAL TUBING. ATTACH TO NO.1 WITH NO.6.
- (5A) TS 5 x 5 x 0.25 STRUCTURAL TUBING, ATTACH TO NO.1 WITH NO.6.
- (6) 1/8" DIA, A325 SLOTTED ROUND HEAD BOLT WITH NUT, 3/6" X 15/6" X 15/6" WASHER, AND LOCK WASHER (2 REO'D, AT EACH RAIL TO POST LOCATION.)
- 7 1/2" THK. BACK-UP PLATE WITH 2 1/8" X 11/2" THREADED SHOP WELDED STUDS (NO. 12). BOLT TO RAIL AS SHOWN IN DETAIL. REQUIRED AT THRIE BEAM GUARD RAIL ATTACHMENTS ONLY. PLACE SYMMETRICALLY ABOUT TUBES NO. 5A.
- (8) 1" DIA.HOLES IN PLATE NO.7 & TUBES NO.5A FOR  $\%_0$ " DIA. A325 BOLTS WITH HEX NUTS AND WASHERS. 6 HOLES IN TUBES AND PLATE NO.7.
- 9 SPLICE SLEEVE FABRICATED FROM 1/4" PLATE. PROVIDE "SLIDING FIT".
- (10) 3%" X 35%" X 2'-4" PLATE. 2 PER RAIL. USED IN NO.5 & 5A.
- $\stackrel{\hbox{\scriptsize (OA)}}{\longrightarrow} 38"$  X 258" X 2'-4" PLATE USED IN NO.5, 38" X 358" X 2'-4" PLATE USED IN NO.5A. 2 PER RAIL.
- (1) % "  $\phi$  a325 round head bolt with nut, washer, and lock washer, use % " x  $1^1\!/_4$ " longit. Slotted holes at field joints and % " x  $2^1\!/_4$ " min. longit. Slotted holes at exp. Joints in plate no. 10a.
- ? 78" DIA. X 1 $^{1}$ /2" LONG THREADED SHOP WELDED STUDS (2 REQ'D).
- $\ensuremath{\mbox{(3)}}\xspace \ensuremath{\mbox{3''}}\xspace \ensuremath{\mbox{8''}}\xspace \ensuremath{\mbox{8''}}\xspac$
- $^{(14)}$   $^{\prime\prime}_8$ " DIA. X 2" LONG A325 HEX BOLT WITH NUT AND WASHER (5 REQ'D.).
- $\ensuremath{\textcircled{15}}$  1"  $\phi$  holes in Tubes no.54 for %" dia.4325 round head bolt with nut, washer and lock washer (4 reo'd.). 4 holes in Tubes.

#### GENERAL NOTES

PART ELEVATION OF RAILING

- 1. BID ITEM SHALL BE "RAILING TUBULAR TYPE M (B-10-222)" WHICH INCLUDES ALL ITEMS
- 2. RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED FY = 50 KSI ANCHOR PLATES, AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 36.
- 3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL  $1/\!\!/_8$  TURN.
- 4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES
- 5. ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH.
- 6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC
- 7. FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO.2 AND CAULK AROUND PERIMETER OF PLATE NO.2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REO'D. FOR ALIGNMENT.
- 8. POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP, AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL, ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.
- 9. ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING BY SSPC SPECIFICATIONS.
- 10. THIS RAILING MEETS NCHRP REPORT 350 EVALUATION CRITERIA FOR TEST LEVEL 4 (TL-4).





AT BEAM GUARD ATTACHMENT

AT RAIL TO DECK CONNECTION

	AREA (SF)			Incremental Vol	(CY) (Unadjusted)		Cumulative Vol (CY	<u>')</u>	
					Salvaged/Unusable		Cut		
STATION	Cut	Salvaged/Unusable Pavement Material	Fill	Cut Note 1	Pavement Material Note 2	Fill Note 3	1.00 Note 1	Expanded Fill 1.25	Mass Ordinate
7+00	62	8	0	0	0	0	0	0	0
7+50	69	8	6	120	19	6	120	7	94
7+80	72	8	7	78	20	7	199	16	144
8+05	65	8	10	64	18	8	262	25	180
8+30	55	8	21	56	15	14	318	43	202
8+50	48	8	31	38	13	19	356	67	203
8+55	48	8	32	9	13	6	365	74	192
8+80	45	8	35	43	13	31	408	113	184
9+00	41	8	50	32	11	32	440	152	165
9+25	40	8	116	37	11	77	477	249	94
9+47	36	8	125	31	10	98	508	371	-8
9+48	0	0	0	1	0	2	508	374	-10
10+52	0	0	0	0	0	0	508	374	-10
10+53	50	8	115	1	7	2	509	377	-19
11+00	53	8	109	90	15	195	599	621	-187
11+20	57	8	95	41	16	76	640	716	-257
11+45	60	8	72	54	17	77	694	812	-316
11+50	62	8	70	11	17	13	705	829	-339
11+70	59	8	67	45	16	51	750	892	-374
11+95	58	8	84	54	16	70	804	980	-423
12+20	56	8	91	53	16	81	857	1081	-487
12+50	54	8	59	61	15	83	918	1185	-545
13+00	53	8	0	98	15	55	1016	1254	-530
			Column Total	1016	293	1003			

Notes:

9

1 - Cut

2 - Salvaged/Unusable Pavement Material

3 - Fill

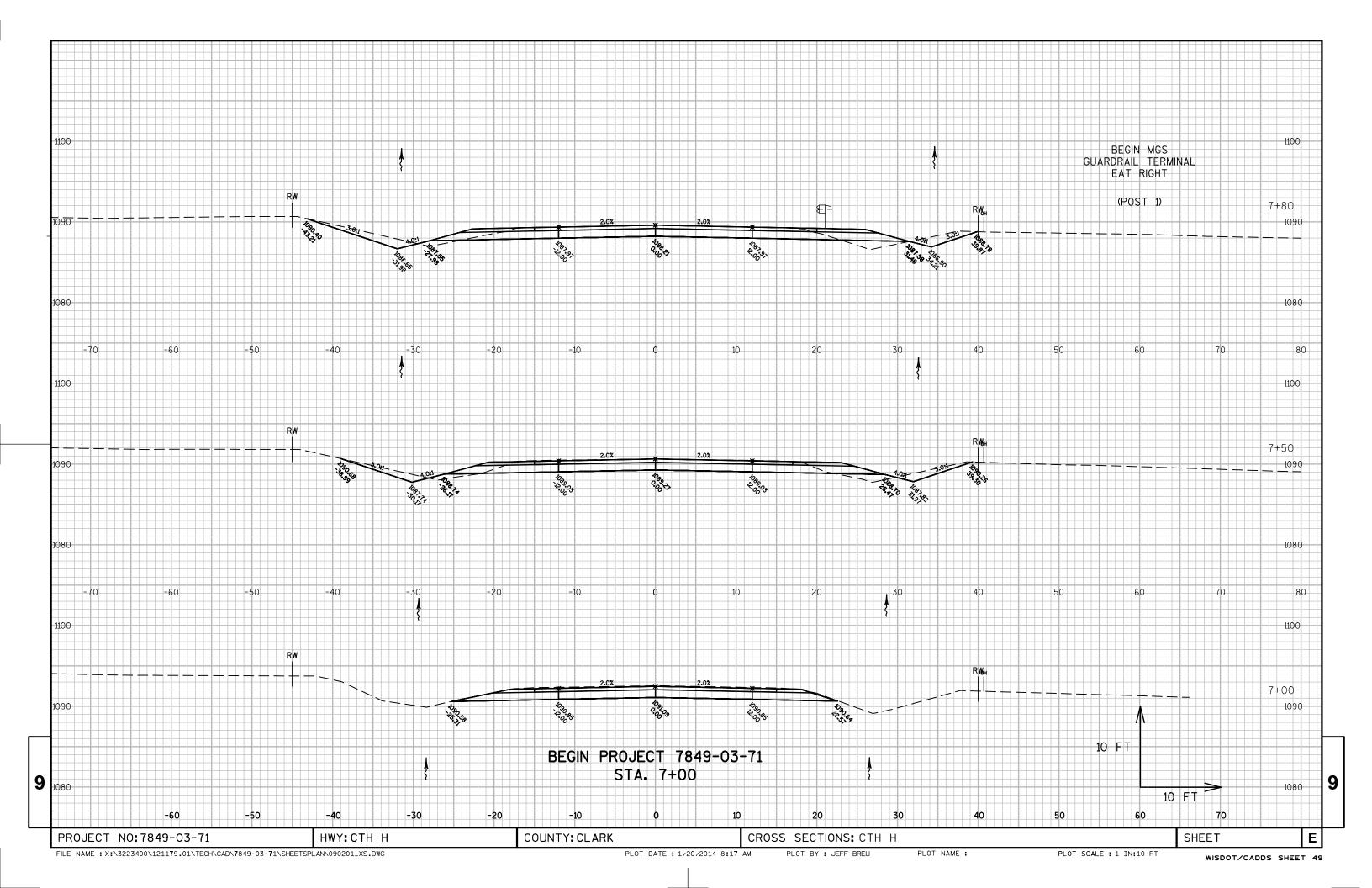
Cut includes Salvaged/Unusable Pavement Material

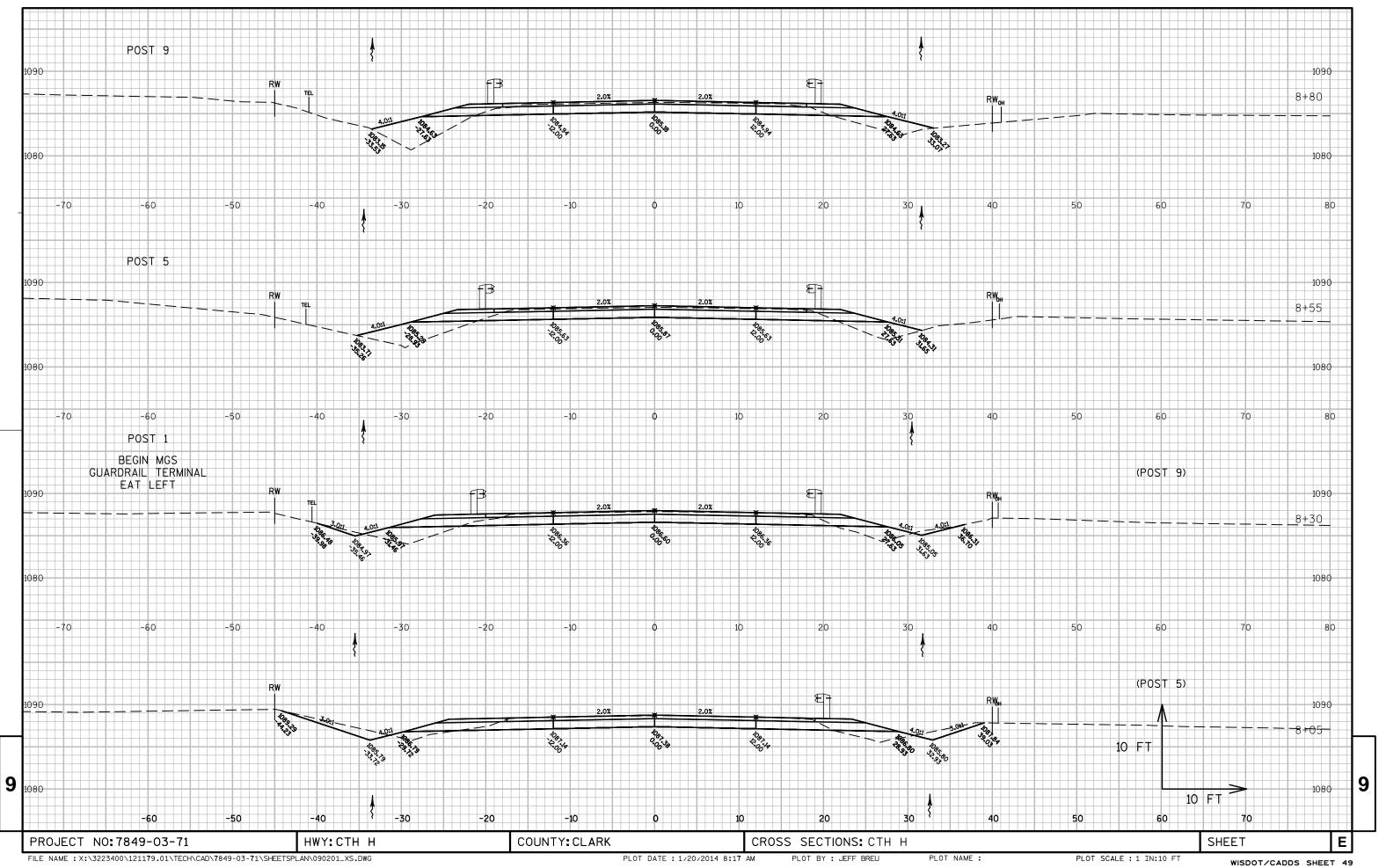
This does not show up in cross sections

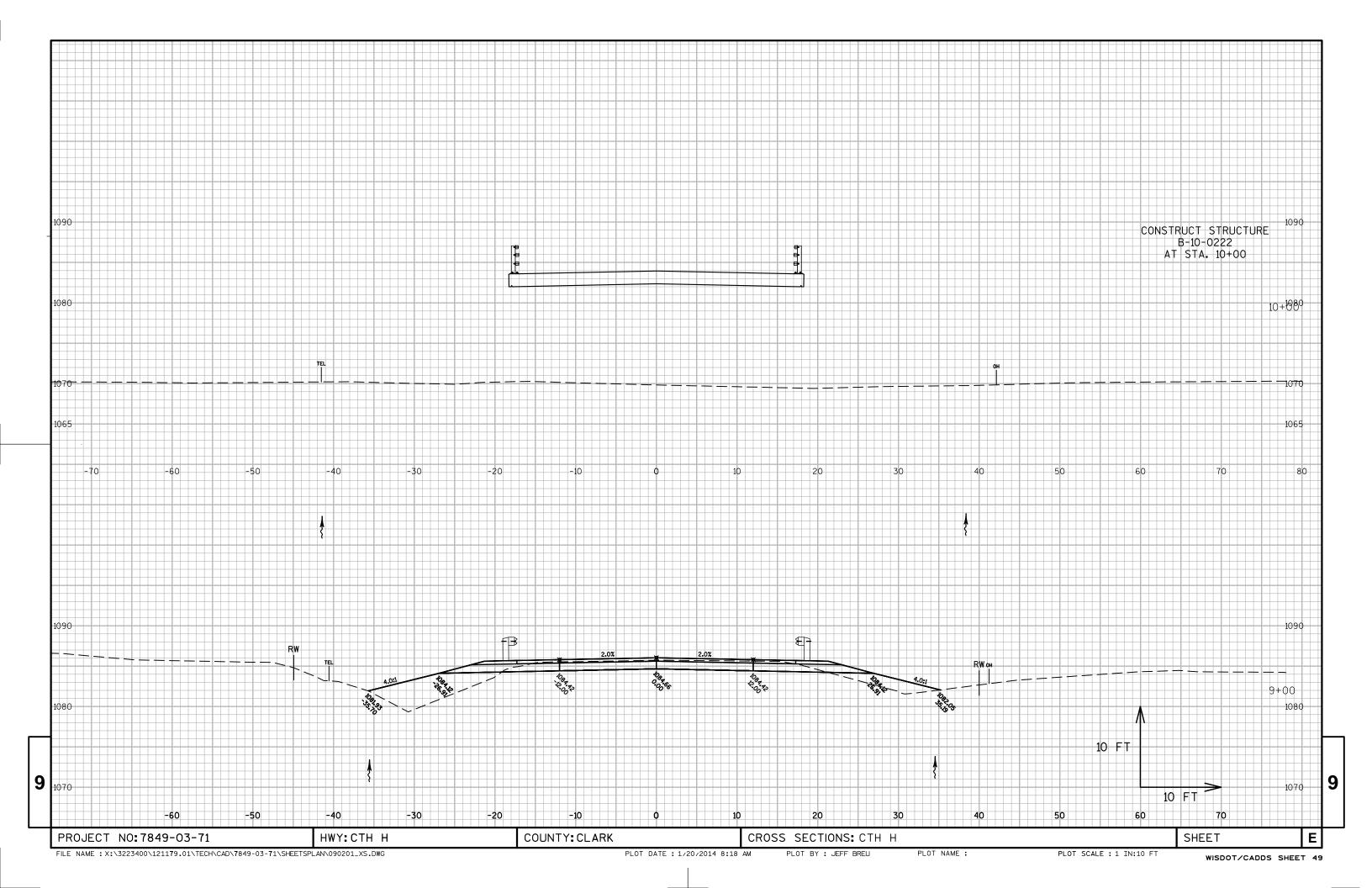
Does not include Unusable Pavement volume

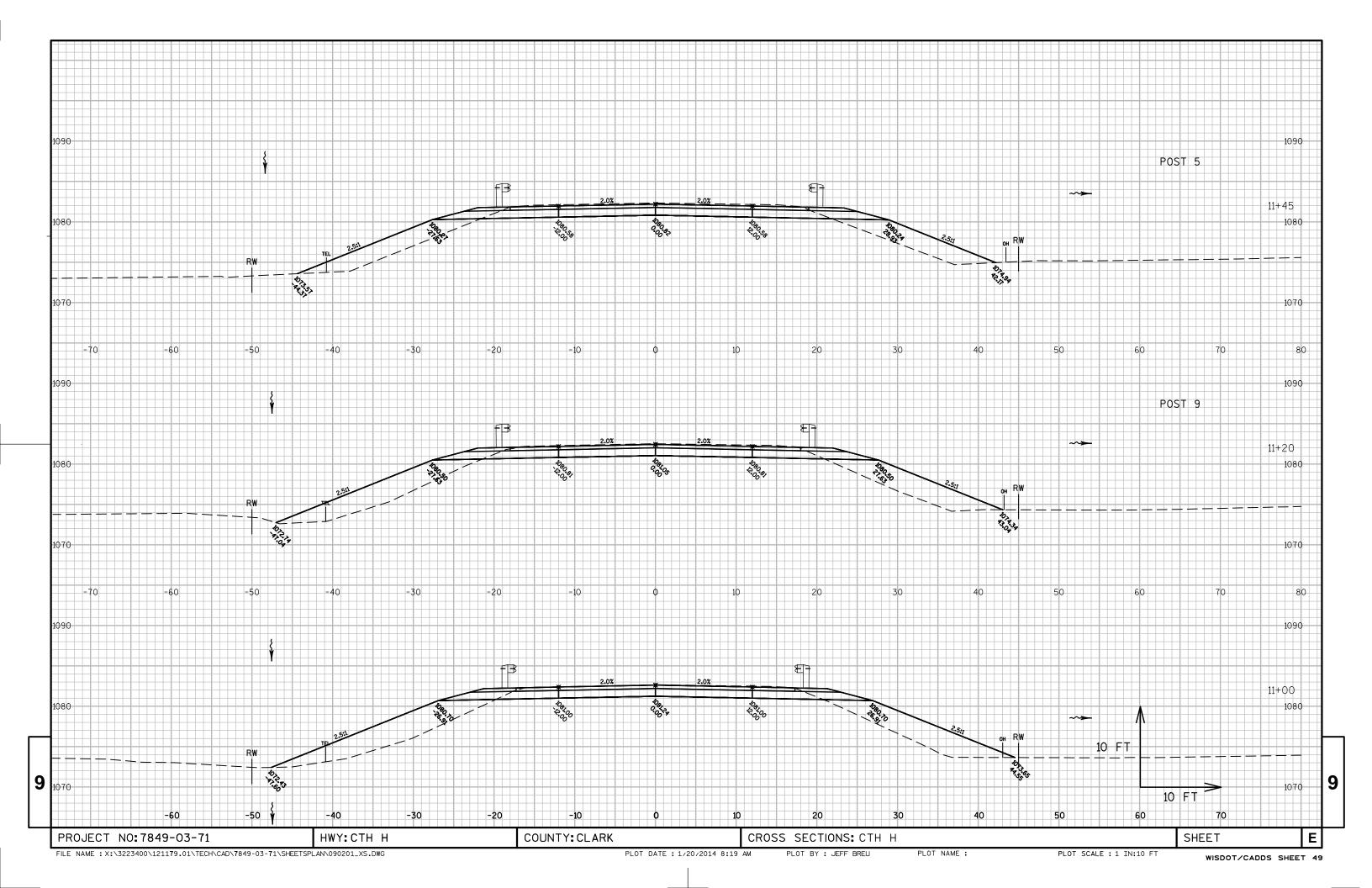
PROJECT NO: 7849-03-71 HWY: CTH H COUNTY: CLARK EARTHWORK SUMMARY SHEET NO: E

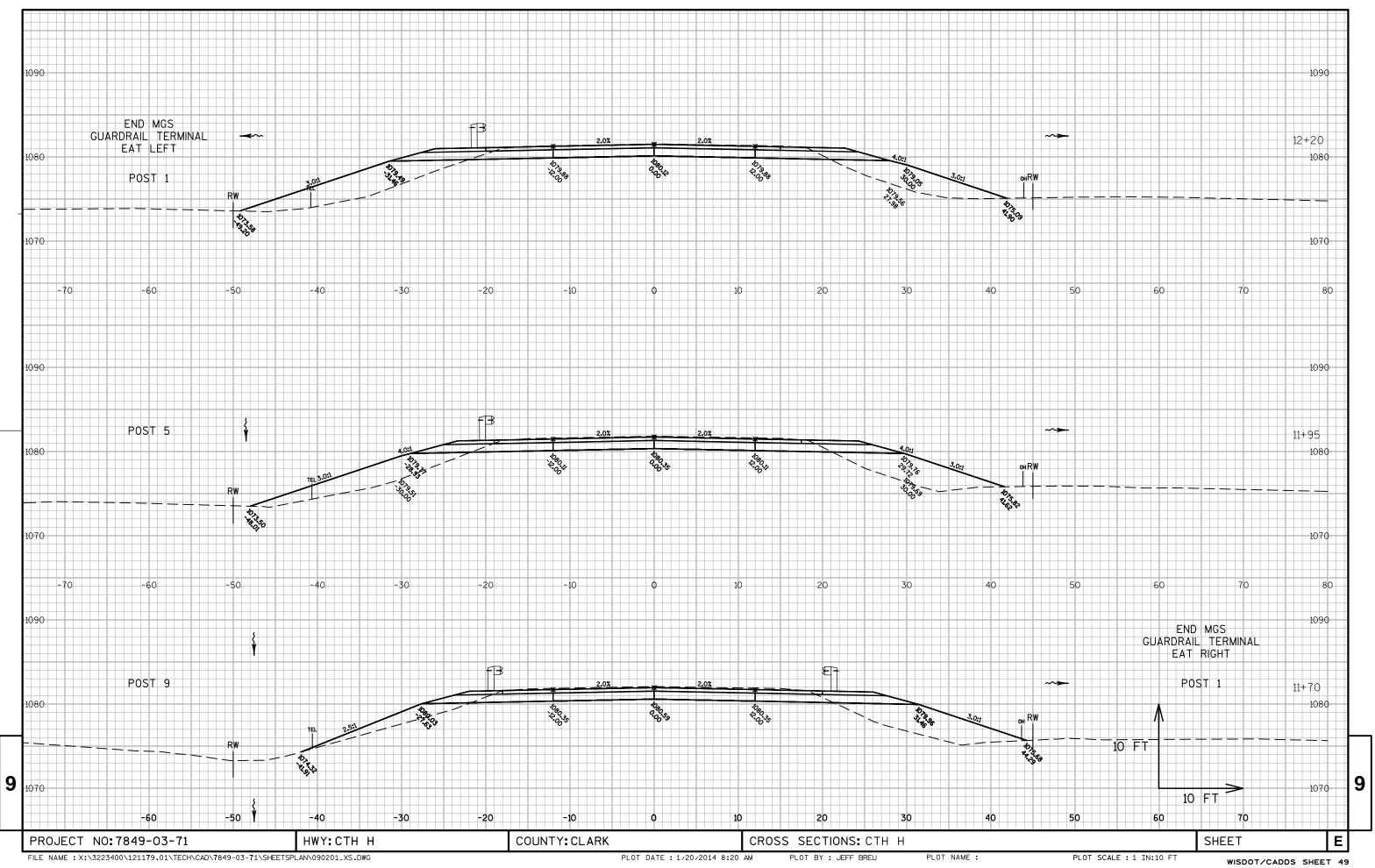
FILE NE : PLOT DATE : \_\_\_\_\_ PLOT BY : \_\_\_\_\_ PLOT NAME : \_\_\_\_ ORG DATE : ORIGINATOR : PLOT SCALE :

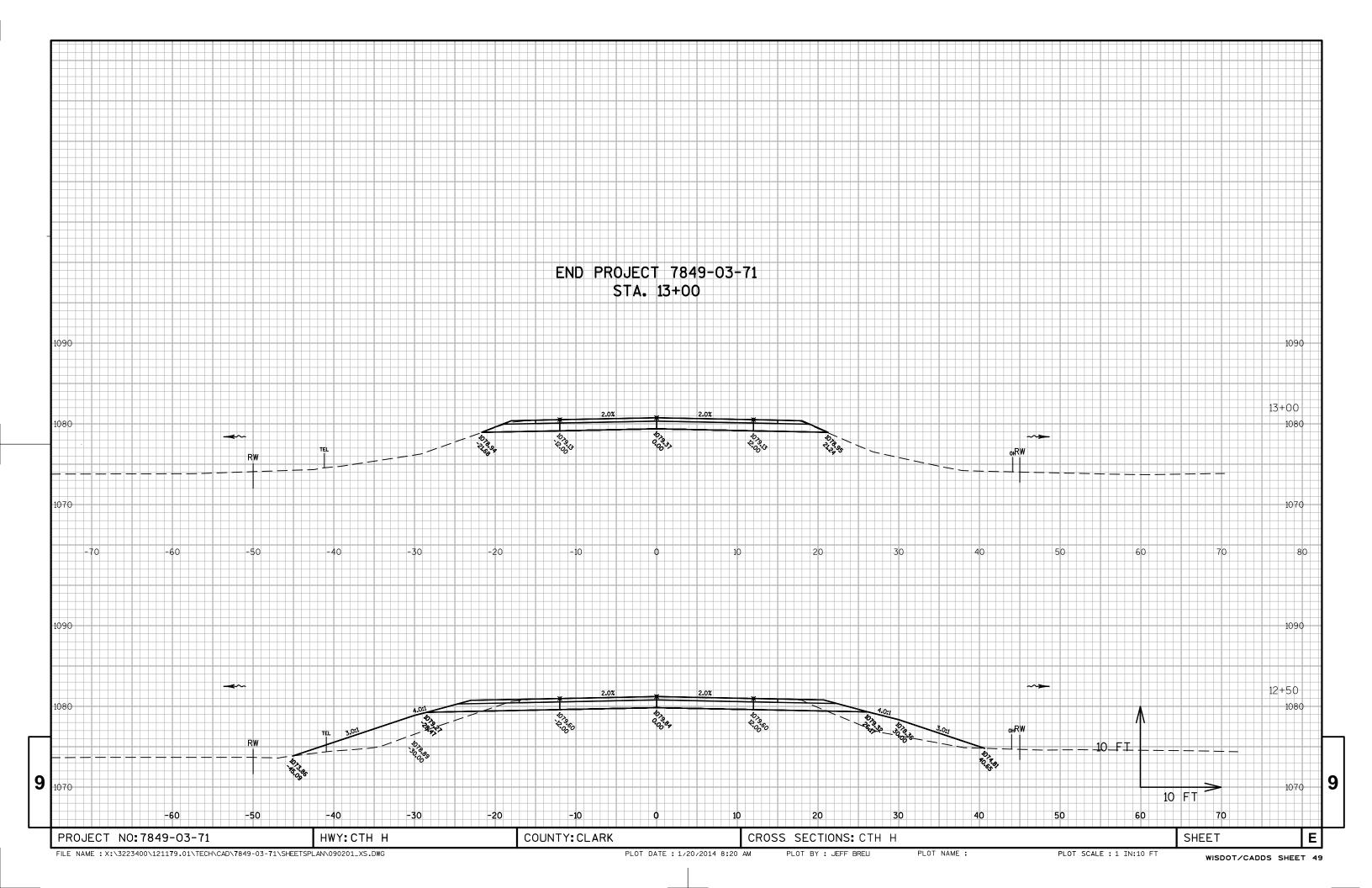














# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov