TOTAL SHEETS =

#### MARCH 2021 ORDER OF SHEETS STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION** Typical Sections and Details

PLAN OF PROPOSED IMPROVEMENT

### CTH D **WASHBURN COUNTY**

STATE PROJECT NUMBER 8814-00-70

# **SARONA - BIRCHWOOD**

CTH T SOUTH TO CTH T NORTH

PROJECT LOCATION

Miscellaneous Quantities

Standard Detail Drawings

Sign Plates

58

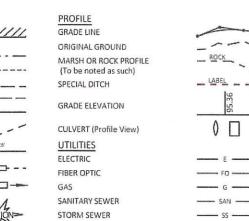
DESIGN DESIGNATION 8814-00-00

A.A.D.T.	2021	=	515
A.A.D.T.	2041	=	775
D.H.V.		=	N/A
D.D.		=	N/A
To		=	7.7%
DESIGN SPEED		=	55
FEALE			120,000

#### CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	1
PROPERTY LINE	3
LOT LINE	
LIMITED HIGHWAY EASEMENT	L.
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



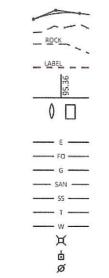
TELEPHONE

UTILITY PEDESTAL

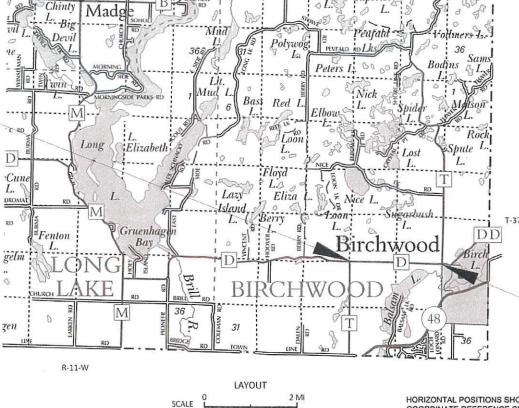
TELEPHONE POLE

POWER POLE

WATER



**BEGIN PROJECT** STA 198+46 Y=510,815.440 X=814,170.200



HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), WASHBURN COUNTY, NAD83 ( 2019 ), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2019), GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A

**END PROJECT** 

STA 307+84

Y=510,803.107

X=825,106.623

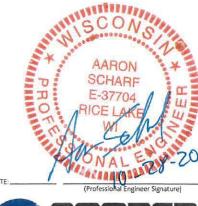
FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 8814-00-70 WISC 2021248 1

ACCEPTED FOR

WASHBURN COUNTY

HIGHWAY COMMISS FOUCK

ORIGINAL PLANS PREPARED BY





### STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

Surveyor	COOPER ENGINEERING CO., INC.
Designer	COOPER ENGINEERING CO., INC.
Project Manager	MATTHEW VAN NATTA, P.E.
Regional Examiner	TOU YANG, P.E.

TOU YANG, P.E. ANDY STENSLAND, P.E.

TOTAL NET LENGTH OF CENTERLINE = 2.072 MI

ABUT

AGG

ADT

AVG.

ASPH

BK.

BM

C, C/L

CABC

CONC.

COR

ABUTMENT

AGGREGATE

AVERAGE DAILY TRAFFIC

CENTRAL ANGLE OR DELTA

ACRES

AHEAD

AVERAGE

BACK

ASPHALTIC

BENCHMARK

CENTERLINE

#### UTILITIES

CENTURYLINK ATTN: BRIAN HUHN P.O. BOX 78 HAWKINS, WI 54580 715-532-0023 BRIAN.HUHN@CENTURYLINK.COM

CHARTER SPECTRUM ATTN: JAMEY OLDEEN 2304 S. MAIN STREET RICE LAKE, WI 54868 715-205-6834 JAMEY.OLDEEN@CHARTER.COM

NORTH CENTRAL POWER ATTN: MICHAEL HEATH P.O. BOX 68 RADISSON, WI 54867 715-945-2630 NCPMIKE85@YAHOO.COM XCEL ENERGY, INC. ATTN: CORISSA SEELY P.O. BOX 8 EAU CLAIRE, WI 54702 715-737-4097 CORISSA.E.SEELY@XCELENERGY.COM

VILLAGE OF BIRCHWOOD ATTN: TUCKER FEE P.O. BOX 6 BIRCHWOOD, WI 54817 715-651-7003 TUCKER@BIRCHWOODVILLAGEWI.COM

LIST OF STANDARD ABBREVIATIONS LEFT LS MH LUMP SUM MANHOLE N NC NORTH NORMAL CROWN PAVT PAVEMENT

> POINT OF CURVATURE PC PRIVATE ENTRANCE PE POINT OF INTERSECTION PΙ PROPERTY LINE PL POWER POLE PT POINT OF TANGENCY RANGE , RADIUS

> > ROAD

REQUIRED

ROADWAY

RAILROAD

RIGHT-OF-WAY

SANITARY SEWER

SUPER ELEVATION

SPECIFICATIONS

STORM SEWER

SQUARE YARD

STATE TRUNK HIGHWAY

TEMPORARY LIMITED EASEMENT

UNITED STATES HIGHWAY

SOUARE FEET

SHOULDER

STREET

STATION SIDEWALK

TANGENT

TELEPHONE

TEMPORARY

UNDERGROUND

DESIGN SPEED

TYPICAL

VARIABLE

VERTICAL

YARD

TOP OF CURB TRANSIT LINE

STANDARD DETAIL DRAWING

RL, R/L REFERENCE LINE

SOUTH

REINFORCED CONCRETE

CULVERT PIPE

REINFORCEMENT BAR

RIGHT HAND FORWARD

RCCP

RD

REBAR

REOD

RDWY

RHF

R/W

SAN S

SDD

SE

SF.

SQ.

SS.

SY.

ST.

STA.

TL, T/L

TEL

TLE

TYP

USH

UG

VAR.

VERT

YD

TEMP

SHLDR

SPECS

CURB AND GUTTER CRUSHED AGGREGATE BASE COURSE CONCRETE CORNER

CORR CORRUGATED CORRUGATED STEEL CSCP CULVERT PIPE CSPA CORRUGATED STEEL PIPE ARCH CTH COUNTY TRUNK HIGHWAY

CP. CULVERT PIPE CUBIC YARD CWT HUNDREDWEIGHT **DIAV.**, EL DIAMETER DEGREE OF CURVE

DHV DESIGN HOURLY VOLUME DWY DRIVEWAY EXC. BELOW SUB GRADE EBS ELEVATION ELEC. ELECTRIC EXCAVATION EXIST **EXISTING** EAST FE FIELD ENTRANCE

FACE TO FACE FL, F/L FLOW LINE FULL SUPERELEVATION GARAGE GN GRID NORTH INTERS HOUSE

HYD HYDRANT INTERSECTION ANGLE INTERSECTION INVERT IRON PIN OR PIPE

LC LONG CHORD OF CURVE LINEAR FOOT LHF LEFT HAND FORWARD LENGTH OF CURVE

ALL UTILITIES LISTED ARE MEMBERS OF DIGGERS HOTLINE

Dial or (800)242-8511

www.DiggersHotline.com 2040 W. WISCONSIN AVE. SUITE 10 MILWAUKEE, WI 53233

#### **DESIGN CONSULTANT**



COOPER ENGINEERING CO. INC. AARON SCHARE 2600 COLLEGE DRIVE RICE LAKE, WI. 54868 PHONE (715) 234-7008

#### WASHBURN COUNTY

WASHBURN COUNTY HIGHWAY COMMISSIONER ATTN: BRIAN DANIELSEN 1600 COUNTY HIGHWAY H SPOONER, WI 54801 715-635-4480 BDANIELS@CO.WASHBURN.WI.US

#### OTHER CONTACTS

DNR NORTHERN REGIONAL HQ

DNR/DOT LIAISON ATTN.: SHAWN HASELEU 810 W. MAPLE ST. SPOONER, WI 54801 TEL.: (715) 635-4228 EMAIL: SHAWN.HASELEU@WISCONSIN.GOV **GENERAL NOTES:** 

SUPER ELEVATIONS SHALL MATCH EXISTING ROADWAY.

NO TREES OR SHRUBS SHALL BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE BEEN DESIGNATED FOR REMOVAL BY THE ENGINEER.

ACCESS TO ALL RESIDENCES SHALL BE MAINTAINED DURING CONSTRUCTION.

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

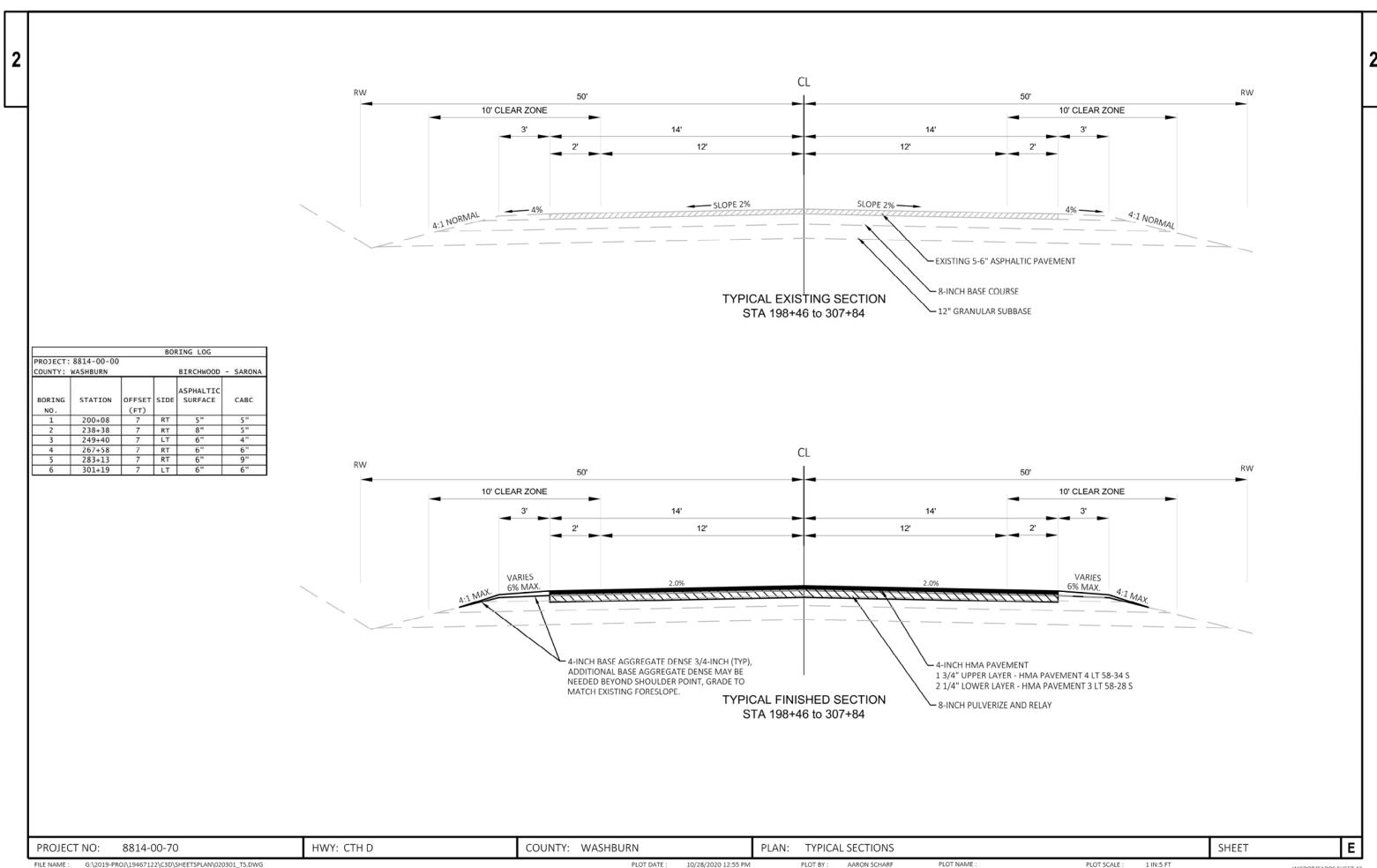
WHEN THE QUANTITY OF HMA PAVEMENT OR BASE AGGREGATE DENSE IS MEASURED BY THE TON, THE DEPTH OR THICKNESS SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE

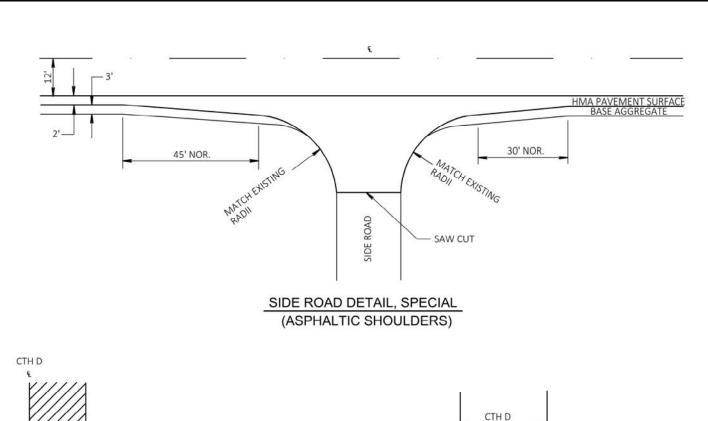
RESTORE SIDEROAD INTERSECTIONS AND PRIVATE ENTRANCES TO EXISTING CONDITIONS UNLESS OTHERWISE SHOWN

THE EXACT CONSTRUCTION LIMITS OF PRIVATE ENTRANCES SHALL BE COORDINATED WITH THE ENGINEER IN THE FIELD.

PAVEMENT MARKING SHALL MEET MUTCD STANDARDS.

PROJECT NO: 8814-00-70 HWY: CTH D COUNTY: WASHBURN PLAN: **GENERAL NOTES** SHEET G:\2019-PROJ\19467122\C3D\SHEETSPLAN\020301 TS.DWG AARON SCHARF PLOT NAME PLOT SCALE : FILE NAME : 10/28/2020 12:53 PM PLOT BY: ######### WISDOT/CADDS SHEET 42





PAID FOR AS PULVERIZE AND RELAY 175' DESIRED 4" HMA PAVEMENT XXXXXX EXISTING ASPHALT SIDE ROAD PULVERIZED MATERIAL PAID FOR AS REMOVING ASPHALTIC SURFACE BUTT JOINTS **BUTT JOINT** AS SHOWN ON PLANS

NOTE: ANY SAWCUT USED IN THIS OPERATION REQUIRED AT BEGIN AND END CONSIDERED INCIDENTAL TO THIS ITEM PAVING LOCATIONS

AS SHOWN ON PLANS 4" HMA PAVEMENT \*\*\*\*\* EXISTING ASPHALT - VARIABLE DEPTH REMOVE MATERIAL UNDER ITEM 'REMOVING ASPHALT SURFACE, BUTT JOINTS' MATERIAL SHALL NOT BE REMOVED UNDER THIS ITEM UNTIL 24 HOURS BEFORE SIDEROAD PAVING. SIDEROAD PAVEMENT DEPTH SHALL MATCH AT MAINLINE PAVEMENT

EDGE AND BE TAPERED TO 3" MINIMUM AT JOINT NOTE: ANY SAWCUT USED WILL BE CONSIDERED INCIDENTAL TO THE

ITEM "REMOVING ASPHALTIC SURFACE, BUTT JOINTS."

PAVEMENT TRANSITION NOT TO SCALE

PULVERIZED MATERIAL

HWY: CTH D

CONSTRUCTION DETAILS

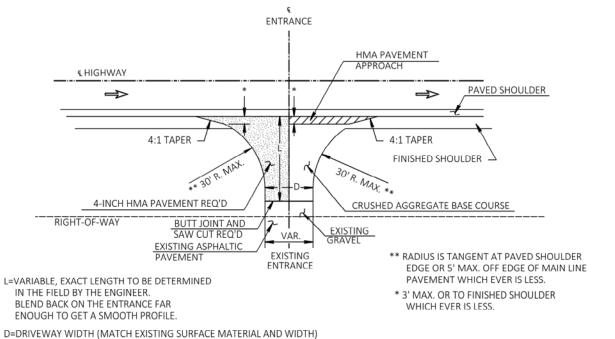
BeginNormalShoulder

309+99.04

PLOT SCALE: 1 IN:10 FT SHEET

SUPERELEVATION REPORT FOR 'P-ALI CTH D' TRANSITION EVENT POINTS RATE (FT/FT) LOCATION STATION LEFT OF CROWNLINE RIGHT OF CROWNLINE LEFT SHOULDER LEFT LANE RIGHT LANE RIGHT SHOULDER CURVE 1 EndNormalShoulder 296+91.57 -0.040-0.020 -0.040-0.020EndNormalCrown 296+91.57 -0.040 -0.020 -0.020 -0.040 297+36.14 -0.040-0.020 0.000 -0.040 LevelCrown 297+80.71 -0.020 -0.040 -0.0400.020 ReverseCrown 298+14.14 -0.040 BeginFullSuper -0.040-0.0350.035 EndFullSuper 298+90.38 -0.040-0.0350.035 -0.040299+23.80 -0.020 ReverseCrown -0.0400.020 -0.040299+68.38 -0.040 -0.020 0.000 -0.040 LevelCrown 300+12.95 -0.040-0.020 -0.020-0.040BeginNormalCrown BeginNormalShoulde 300+12.95 -0.040-0.020-0.020 -0.040CURVE 2 EndNormalShoulder 306+53.97 -0.040-0.020-0.020 -0.040306+53.97 EndNormalCrown -0.040-0.020-0.020 -0.040LevelCrown 306+98.58 -0.0400.000 -0.020 -0.040307+43.20 -0.020 -0.040ReverseCrown -0.0400.020 307+87.81 -0.040 0.040 -0.020 -0.040 LowShoulderMatch BeginShoulderRollove 307+87.81 -0.0400.040 -0.020 -0.040 BeginFullSuper 308+14.58 -0.0280.052 -0.052-0.052EndFullSuper 308+38.42 -0.0280.052 -0.052-0.052LowShoulderMatch 308+65.19 -0.0400.040 -0.040 -0.040-0.040 -0.040 EndShoulderRollover 308+65.19 -0.0400.040 ReverseCrown 309+09.81 -0.0400.020 -0.020 -0.040309+54.42 -0.0400.000 -0.020 -0.040LevelCrown 309+99.04 -0.040-0.020 -0.020 -0.040 BeginNormalCrown

-0.040



**PLAN VIEW** 

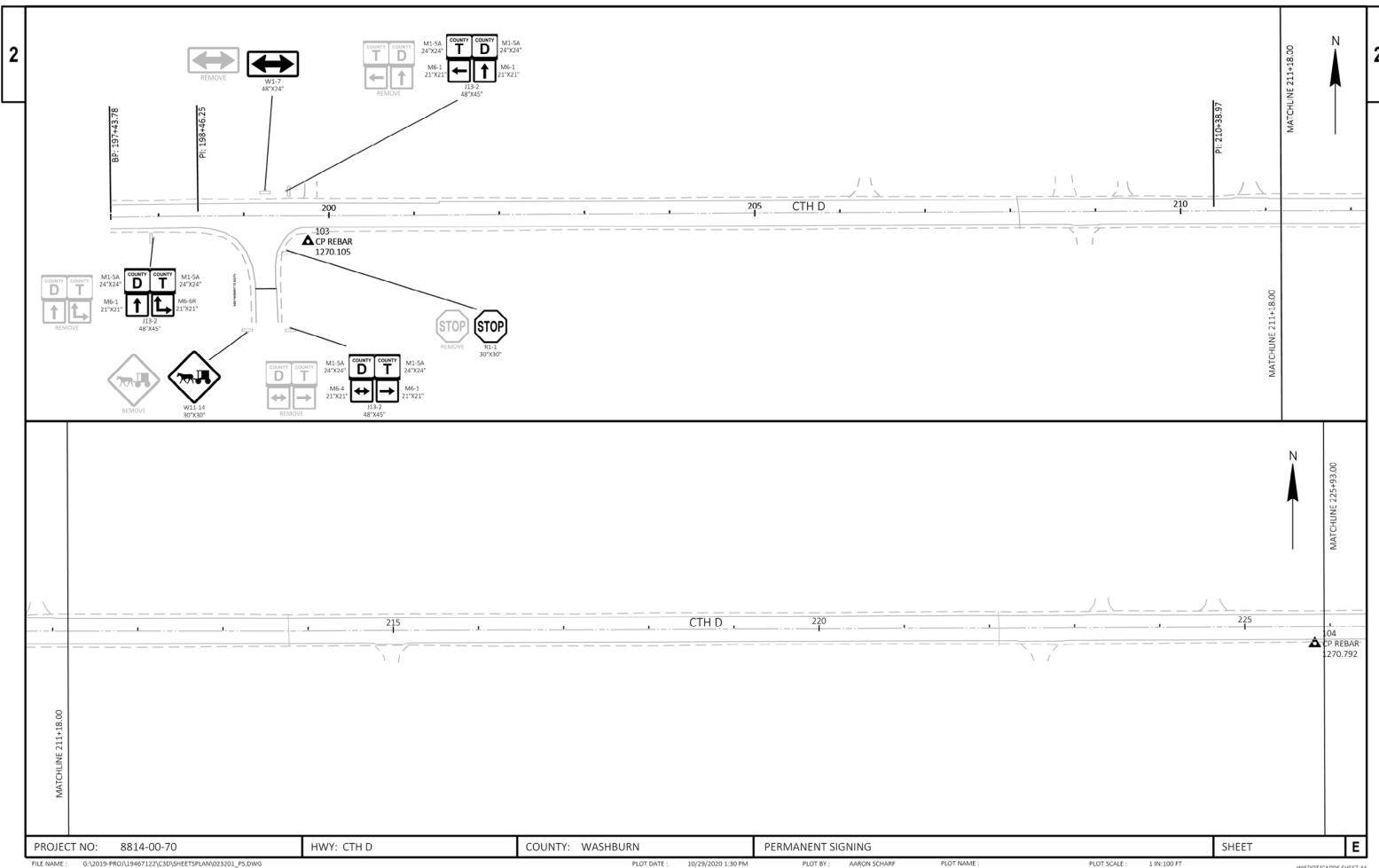
RURAL DRIVEWAY DETAIL (PE's, & FE's)

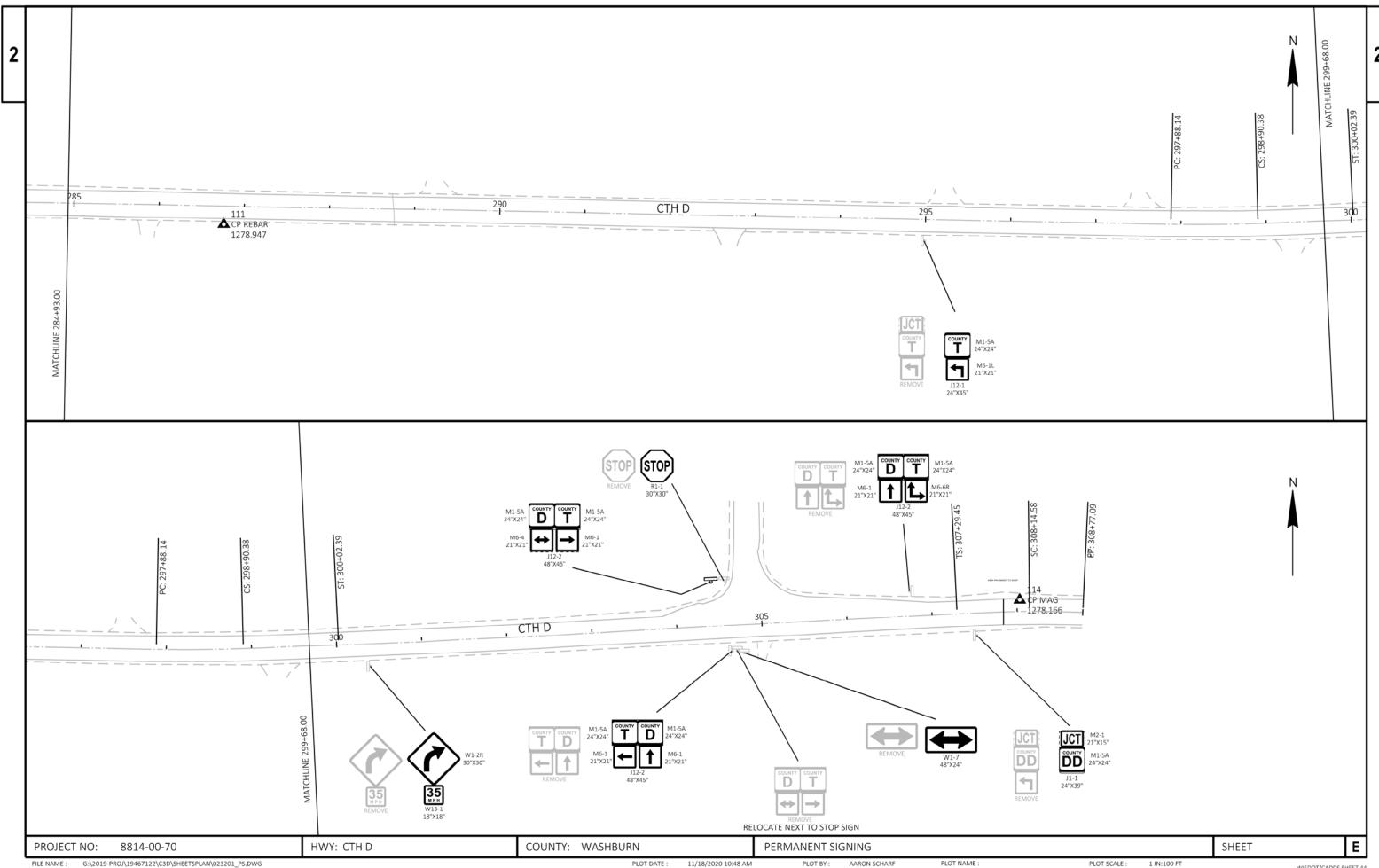
-0.020

-0.020

-0.040

PROJECT NO: 8814-00-70 COUNTY: WASHBURN G:\2019-PROJ\19467122\C3D\SHEETSPLAN\021001 CD.DWG PLOT BY: AARON SCHARF PLOT NAME: FILE NAME : 10/29/2020 10:02 AM LAYOUT NAME - CONSTRUCTION DETAILS (1)





					8595-00-71
Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	5.000	5.000
0004	201.0205	Grubbing	STA	5.000	5.000
0006		Abatement of Asbestos Containing Material (structure) 01. B-54-0010	LS	1.000	1.000
8000	203.0700.S	Removing Old Structure Over Waterway With Debris Capture System (station) 01. 13+75	LS	1.000	1.000
0010	204.0165	Removing Guardrail	LF	305.000	305.000
0012	205.0100	Excavation Common	CY	330.000	330.000
0014	206.1000	Excavation for Structures Bridges (structure) 01. B-54-0138	LS	1.000	1.000
0016	208.0100	Borrow	CY	130.000	130.000
0018	210.1500	Backfill Structure Type A	TON	540.000	540.000
0020	213.0100	Finishing Roadway (project) 01. 8595-00-71	EACH	1.000	1.000
0022	305.0110	Base Aggregate Dense 3/4-Inch	TON	120.000	120.000
0024	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	720.000	720.000
0026	415.0120	Concrete Pavement 12-Inch	SY	36.000	36.000
0028	415.0410	Concrete Pavement Approach Slab	SY	100.000	100.000
0030	455.0605	Tack Coat	GAL	25.000	25.000
0030	465.0105	Asphaltic Surface	TON	75.000	75.000
0032	502.0100	Concrete Masonry Bridges	CY	194.000	194.000
0034	502.0100	Protective Surface Treatment	SY	422.000	422.000
0038	503.0137	Prestressed Girder Type I 36W-Inch	LF	570.000	570.000
0040	505.0400	Bar Steel Reinforcement HS Structures	LB	5,280.000	5,280.000
0042	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	20,470.000	20,470.000
0044	506.2605	Bearing Pads Elastomeric Non-Laminated	EACH	12.000	12.000
0046	506.4000	Steel Diaphragms (structure) 01. B-54-0138	EACH	10.000	10.000
0048	513.4061	Railing Tubular Type M	LF	200.000	200.000
0050	516.0500	Rubberized Membrane Waterproofing	SY	15.000	15.000
0052	550.1120	Piling Steel HP 12-Inch X 53 Lb	LF	520.000	520.000
0054	606.0300	Riprap Heavy	CY	175.000	175.000
0056	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	165.000	165.000
0058	614.2500	MGS Thrie Beam Transition	LF	157.600	157.600
0060	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
0062	618.0100	Maintenance And Repair of Haul Roads (project) 01. 8595-00-71	EACH	1.000	1.000
0064	619.1000	Mobilization	EACH	1.000	1.000
0066	624.0100	Water	MGAL	10.000	10.000
0068	625.0500	Salvaged Topsoil	SY	1,635.000	1,635.000
		Erosion Bales	EACH	55.000	
0070	628.1104				55.000
0072	628.1504	Silt Fence	LF	300.000	300.000
0074	628.1520	Silt Fence Maintenance	LF	1,225.000	1,225.000

					8595-00-71	
Line	Item	Item Description	Unit	Total	Qty	
0076	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000	
0078	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0800	628.2008	Erosion Mat Urban Class I Type B	SY	1,635.000	1,635.000	
0082	628.6005	Turbidity Barriers	SY	215.000	215.000	
0084	628.7504	Temporary Ditch Checks	LF	50.000	50.000	
0086	628.7555	Culvert Pipe Checks	EACH	5.000	5.000	
8800	629.0210	Fertilizer Type B	CWT	1.100	1.100	
0090	630.0120	Seeding Mixture No. 20	LB	50.000	50.000	
0092	630.0500	Seed Water	MGAL	50.000	50.000	
0094	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0096	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0098	638.2102	Moving Signs Type II	EACH	1.000	1.000	
0100	638.2602	Removing Signs Type II	EACH	4.000	4.000	
0102	638.3000	Removing Small Sign Supports	EACH	4.000	4.000	
0104	638.4000	Moving Small Sign Supports	EACH	1.000	1.000	
0106	642.5001	Field Office Type B	EACH	1.000	1.000	
0108	643.0300	Traffic Control Drums	DAY	475.000	475.000	
0110	643.0420	Traffic Control Barricades Type III	DAY	1,425.000	1,425.000	
0112	643.0705	Traffic Control Warning Lights Type A	DAY	2,470.000	2,470.000	
0114	643.0900	Traffic Control Signs	DAY	1,425.000	1,425.000	
0116	643.5000	Traffic Control	EACH	1.000	1.000	
0118	645.0111	Geotextile Type DF Schedule A	SY	90.000	90.000	
0120	645.0120	Geotextile Type HR	SY	260.000	260.000	
0122	646.1020	Marking Line Epoxy 4-Inch	LF	800.000	800.000	
0124	650.4500	Construction Staking Subgrade	LF	453.000	453.000	
0126	650.5000	Construction Staking Base	LF	397.000	397.000	
0128	650.6500	Construction Staking Structure Layout (structure) 01. B-54-0138	LS	1.000	1.000	
0130	650.7000	Construction Staking Concrete Pavement	LF	56.000	56.000	
0132	650.9910	Construction Staking Supplemental Control (project) 01. 8595-00-71	LS	1.000	1.000	
0134	650.9920	Construction Staking Slope Stakes	LF	453.000	453.000	
0136	690.0150	Sawing Asphalt	LF	275.000	275.000	
0138	715.0502	Incentive Strength Concrete Structures	DOL	1,860.000	1,860.000	
0140	SPV.0090	Special 01. Flashing Stainless Steel	LF	182.000	182.000	

		REMOVAL ITEMS			
		R A	REMOVING EMOVING ASPHALTIC SPHALTIC SURFACE URFACE BUTT JOINTS SY SY		
		0010 198+46 - 200+21 BEGIN PROJECT 0010 199+26 CTH T SOUTH 0010 292+70 RT 0010 306+09 - 307+84 END PROJECT 0010 304+85 CTH T NORTH	544 318 40 636 316		
	,	BASE AGGREGATE DENSE ITEMS	305.0110		
	·	STATION TO STATION SIDE (FT) (IN)  198+46 - 307+85 LT/RT 3 4.00 DRIVEWAYS LT/RT 4.00	BASE AGGREGATE DENSE 3/4-INCH TON REMARKS  2,379 50		
	ASPHALT ITEMS 325.0100 455.0605	460.5223 460.5244 690.0150	2,429		
WIDTH THATEGORY STATION TO STATION SIDE (FT)		MA PAVEMENT HMA PAVEMENT SAWING 3 LT 58-28 S 4 LT 58-34 S ASPHALT  TON TON LF REMA	uks	WATER 6:	524.0100
0010 198+46 - 307+85 LT/RT 28 0010 199+26 RT - 0010 198+46 - 307+85 LT/RT 28 0010 198+46 - 307+85 LT/RT 28 0010 292+70 RT 18	8.00 1 34,032 - 1 318 16 2.25 1 1,702 1.75 1 3.00 1	40 30 CTH T SOUTH 4,290 3,340			WATER MGAL 50
0010 304+85 LT - UNDISTRUBUTED	- 1 316 16 	40 30 CTH T NORTH 4,370 3,400 18			

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ı	-
ı	4
ı	v

								637.2210 SIGNS TYPE II REFLECTIVE H	637.2230 SIGNS TYPE II REFLECTIVE F		634.0616 POSTS WOOD 4X6- INCH X 16-FT	638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS
						WIDTH	HEIGHT						
CATEGORY	STATION	SIDE	DIRECTION	CODE	DESCRIPTION	(IN)	(IN)	SF	SF	ORDER LINE 1	EACH	EACH	EACH
0010	197+94	RT	EB	J12-2	DIRECTIONAL WITHOUT CARDINAL	48	45	15.00		DT/(DA)(DDA)	1	1	1
0010				M1-5A	COUNTY ROUTE MARKER	24	24			D			
0010				M1-5A	COUNTY ROUTE MARKER	24	24			Т			
0010				M6-1	DIRECTIONAL ARROW	21	21						
0010				M6-6R	DOUBLE DIRECTIONAL ARROW	21	21						
0010	199+03	RT	SB	W11-14	AMISH BUGGY	30	30		6.25		1	1	1
0010	199+50	RT	NB	R1-1	STOP (CTH T SOUTH)	30	30	5.18			1	1	1
0010	199+54	RT	NB	J12-2	DIRECTIONAL WITHOUT CARDINAL	48	45	15.00		DT/(DDA)(DA)	1	1	1
0010				M1-5A	COUNTY ROUTE MARKER	24	24			D			
0010				M1-5A	COUNTY ROUTE MARKER	24	24			$\tilde{\mathbf{L}}_{S}$			
0010				M6-4	DOUBLE DIRECTIONAL ARROW	21	21						
0010	204.00	DT	50	M6-1	DIRECTIONAL ARROW	21	21			ICT IT (IDA)		2	9
0010	294+99	RT	EB	J2-1	JUNCTION ASSEMBLY	24	57	7.50		JCT/T/(DA)		1	1
0010	294+99	RT	EB	J12-1	ADVANCE ROUTE TURN ASSEMBLY JUNCTION	24	45	7.50		T/ (DA)	1		
0010				M2-1 M1-5A		24	24			JCT T			
0010				M5-1L	COUNTY ROUTE MARKER ADVANCE TURN ARROW	21	21			3.5			
0010	300+39	RT	EB	W1-2-R	RIGHT CURVE	30	30		6.25		1	1	1
0010	300+39	RT	EB	W13-1	SPEED WARNING	18.00	18.00		2.25	35	*	1	1
0010	304+64	RT	EB	J12-2	DIRECTIONAL WITHOUT CARDINAL	48	45	15.00	2.23	TD / (DA) (DA)	1	1	1
0010	F. F. 12 F. 11	6880	77.07	M1-5A	COUNTY ROUTE MARKER	24	24			T	-	~	533
0010				M1-5A	COUNTY ROUTE MARKER	24	24			D			
0010				M6-1	DIRECTIONAL ARROW	21	21						
0010				M6-1	DIRECTIONAL ARROW	21	21						
0010	304+69	RT	SB	J12-2	DIRECTIONAL WITHOUT CARDINAL	48	45	15.00		DT /(DDA)(DA)	1	1	1
0010				M1-5A	COUNTY ROUTE MARKER	24	24			D			
0010				M1-5A	COUNTY ROUTE MARKER	24	24			T			
0010				M6-4	DOUBLE DIRECTIONAL ARROW	21	21						
0010				M6-1	DIRECTIONAL ARROW	21	21						
0010	304+78	RT	SB	W1-7	TWO-DIRECTION LARGE ARROW	48	24		8.00		1	1	1
0010	307+51	RT	EB	J2-1	JUNCTION ASSEMBLY	24	57			JCT/DD/(DA)		1	1
0010	307+51	RT	EB	J1-1	JUNCTION ASSEMBLY	24	39	6.50		JCT/DD	1		
0010				M2-1	JUNCTION	â	=			JCT			
0010				M1-5A	COUNTY ROUTE MARKER	24	24			DD			
0010				M5-1L	ADVANCE TURN ARROW	21	21						
					EASTBOUND TOTAL			79.18	22.75		10	11	11
						WIDTH	HEIGHT	AREA	AREA				
CATEGORY	STATION	SIDE	DIRECTION	CODE	DESCRIPTION	(IN)	(IN)	(SF)	(SF)	ORDER LINE 1	EA	EA	EA
0010	306+75	LT	WB	J12-2	DIRECTIONAL WITHOUT CARDINAL	48	45	15.00		DT /(DDA)(DA)	1	1	1
0010	300+/3	LI	VV D	M1-5A	COUNTY ROUTE MARKER	24	24	15.00		D T / (DDA) (DA)	1	1	11
0010				M1-5A	COUNTY ROUTE MARKER	24	24			T			
0010				M6-1	DIRECTIONAL ARROW	21	21			1			
0010	204.50	ET.	CD	M6-6R	DOUBLE DIRECTIONAL ARROW STOP (CTH T NORTH)	21 30	21	5.18			1	1	840
0010 0010	304+58 199+50	LT LT	SB WB	R1-1 J12-2	DIRECTIONAL WITHOUT CARDINAL	48	30 45	15.00		TD //DA\/DA\	1	1	1 1
0010	133+30	LI	VVD	M1-5A	COUNTY ROUTE MARKER	24	24	15.00		TD / (DA) (DA)	1	1	1
0010				M1-5A	COUNTY ROUTE MARKER  COUNTY ROUTE MARKER	24	24			D			
0010				M6-1	DIRECTIONAL ARROW	21	21			D <sub>(</sub>			
0010				M6-1	DIRECTIONAL ARROW	21	21						
	199+25	LT	NB	W1-7	TWO-DIRECTION LARGE ARROW	48	24		8.00		1	1	1
.noutseyed		4000	75486	STATE OF STA	A CONTRACTOR OF THE PROPERTY O	2203	150 m <sup>2</sup>	25.46	JP0000001		20 W	**	11-4
					WESTBOUND TOTAL			35.18	8.00		4	4	4
					PROJECT TOTAL			114.36	30.75		14	15	15

SIGNING

PROJECT NO: 8814-00-70

E

TRAFFIC CONTROL ITEMS

		TRAFFIC C		
		SIG	NS	
		643.0	900	
CATEGORY	WORKING DAYS	#SIGNS	DAYS	REMARKS
0010	25	25	625	

0010 TOTAL 625

PAVEMENT MARKING ITE	MS
----------------------	----

						MARKING LINE EPOXY 4-INCH WHITE 646.1020	MARKING LINE SAME DAY EPOXY 4-INCH 646.4520	MARKING STOP LINE EPOXY 18- INCH 646.6120	LOCATING NO- PASSING ZONES 648.0100	TEMPORARY MARKING LINE PAINT 4-INCH 649.0105	<del>-</del> s
CATEGORY	CTATION	то	CTATION	LOCATION		LF	LF	646.6120 LF	MI	LF	REMARKS
CATEGORY	STATION	10	STATION	LUCATION		LF	LF	LF	IVII	LF	REIVIARKS
0010	198+46	-	304+32	LT		10586					WHITE, EDGELINE
0010	198+46	12	198+73	RT		27					WHITE, EDGELINE
0010	198+46	-	307+83	LT/RT					2		YELLOW TOTAL (BREAKDOWN HIDDEN)
0010	198+46		208+37	LT/RT			991			1982	YELLOW, CL, DOUBLE YELLOW
0010	198+46	æ	307+83	LT/RT							YELLOW, CL, DOUBLE YELLOW
0010	199+26			CTH T SOUTH	É		130	20		260	DOUBLE YELLOW SIDEROAD
0010	199+64	175	307+83	RT		10819					WHITE, EDGELINE
0010	208+37	35	218+32	LT/RT			995			1990	YELLOW, CL, NO PASSING WESTBOUND
0010	218+32	17.	223+12	LT/RT			480			960	YELLOW, CL, PASSING ZONE
0010	223+12	$\pm$	233+68	LT/RT			1056			2112	YELLOW, CL, NO PASSING EASTBOUND
0010	233+68	2	249+79	LT/RT			1611			3222	YELLOW, CL, DOUBLE YELLOW
0010	249+79	2	259+94	LT/RT			1015			2030	YELLOW, CL, NO PASSING WESTBOUND
0010	259+94	2	263+31	LT/RT			337			674	YELLOW, CL, PASSING ZONE
0010	263+31	-	270+92	LT/RT			761			1522	YELLOW, CL, NO PASSING EASTBOUND
0010	270+92	2	273+60	LT/RT			268			536	YELLOW, CL, PASSING ZONE
0010	273+60	-	276+05	LT/RT			245			490	YELLOW, CL, NO PASSING WESTBOUND
0010	276+05	39	299+83	LT/RT			2378			4756	YELLOW, CL, PASSING ZONE
0010	299+83	*	304+32	LT/RT			449			898	YELLOW, CL, NO PASSING EASTBOUND
0010	304+32	æ	307+83	LT/RT			351			702	YELLOW, CL, DOUBLE YELLOW
0010	304+85			CTH T SOUTH	ĺ		120	20		240	DOUBLE YELLOW SIDEROAD
0010	305+60	170	307+83	LT		223					WHITE, EDGELINE
					0010 TOTAL	21655	11187	40	2	22374	=

#### STAKING ITEMS

				CONSTRUCTION STAKING RESURFACING REFERENCE	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT)	
				650.8000	650.9910	
CATEGORY	STATION	TO	STATION	LF	LS	REMARKS
0010	198+46		307+83	10937	1	
			0010 TOTAL	10937	1	

FILE NAME : G:\2019-PROJ\19467122\C3D\SHEETSPLAN\030101\_MQ,DWG LAYOUT NAME - 03

PROJECT NO: 8814-00-70

HWY: CTH D

COUNTY: WASHBURN

PLOT DATE : 12/18/2020 9:42 AM

PLOT BY: AARON SCHARF

MISCELLANEOUS QUANTITIES

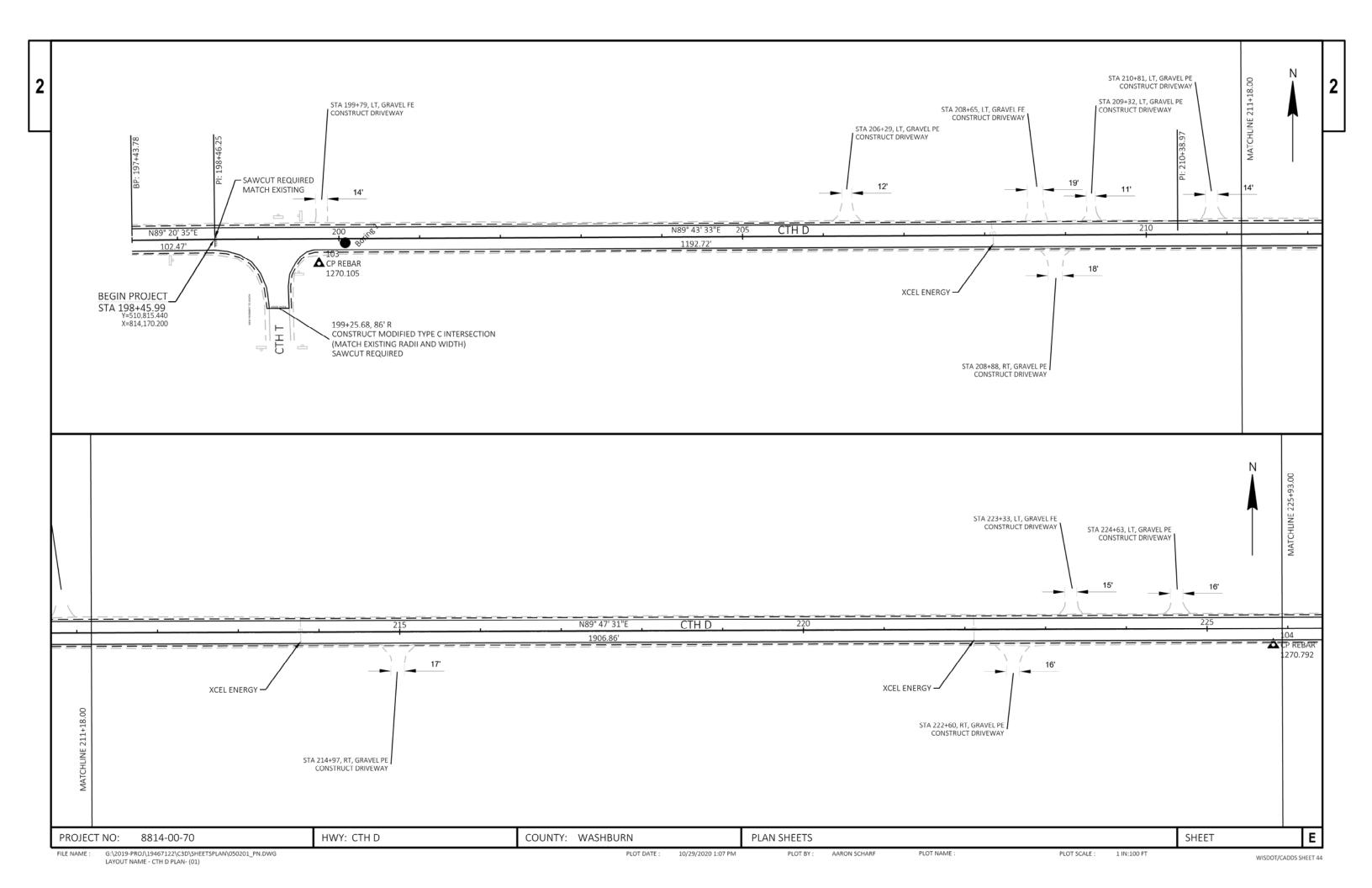
PLOT NAME :

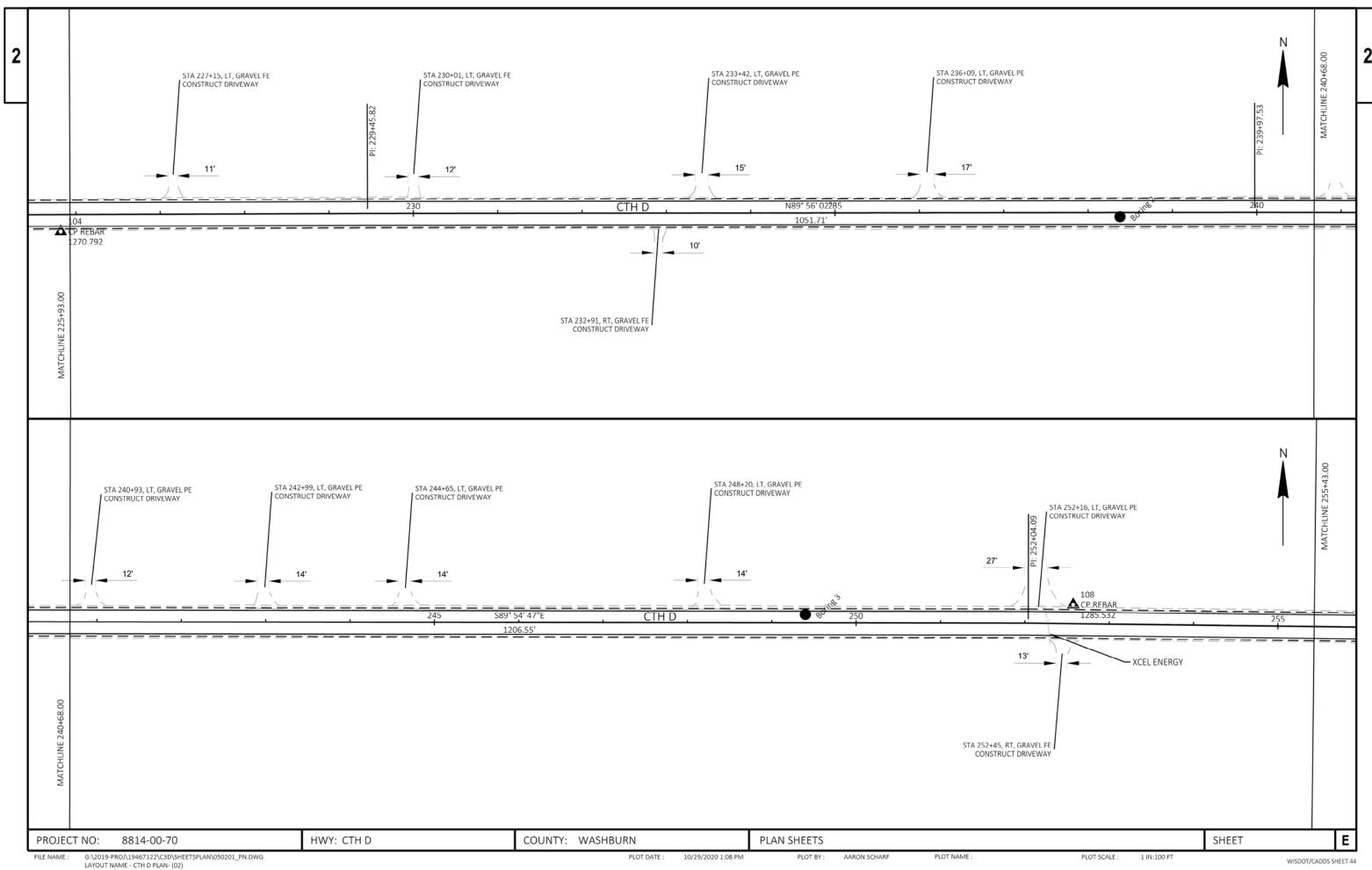
PLOT SCALE : 1 IN:1 FT

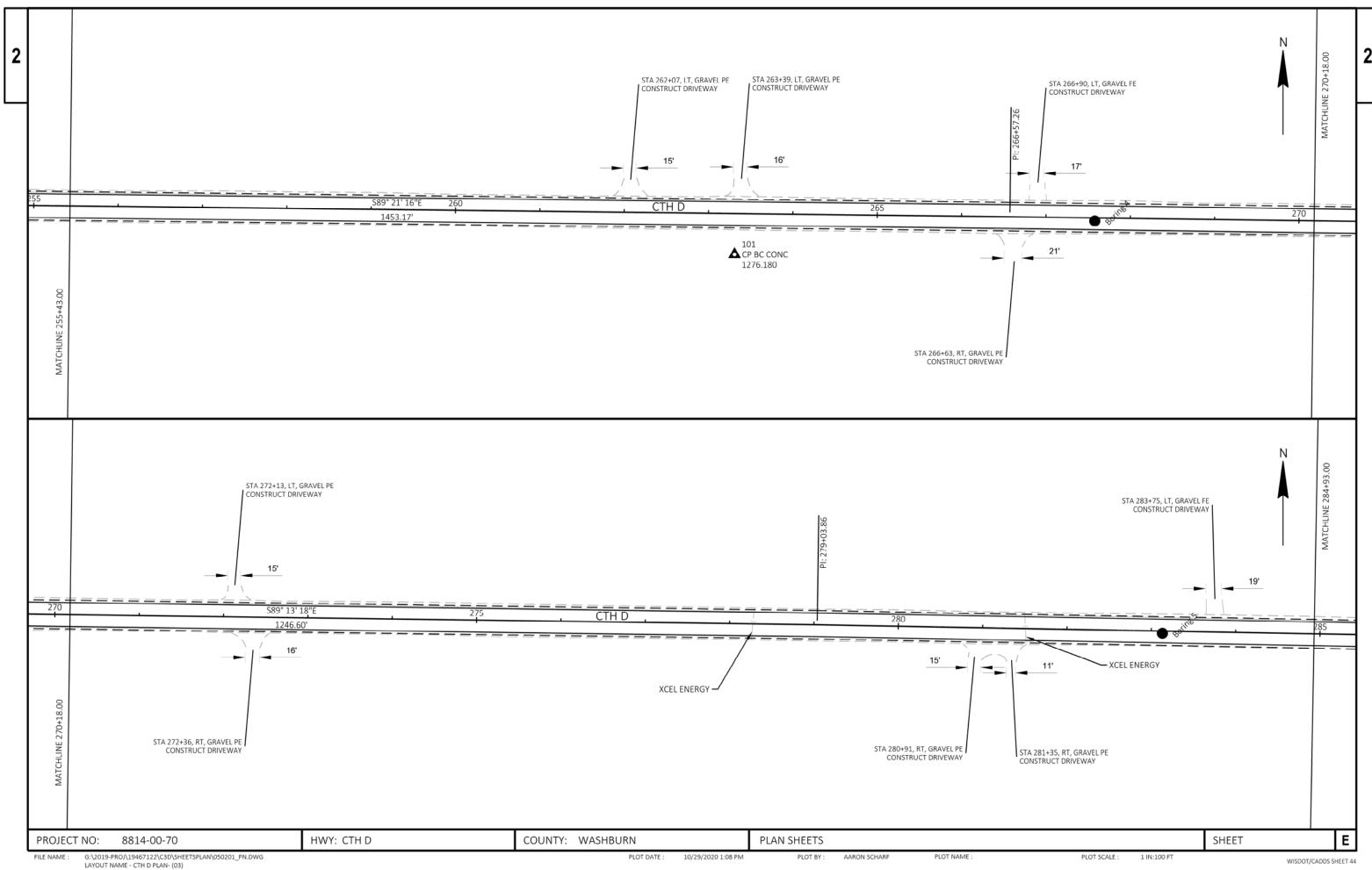
SHEET

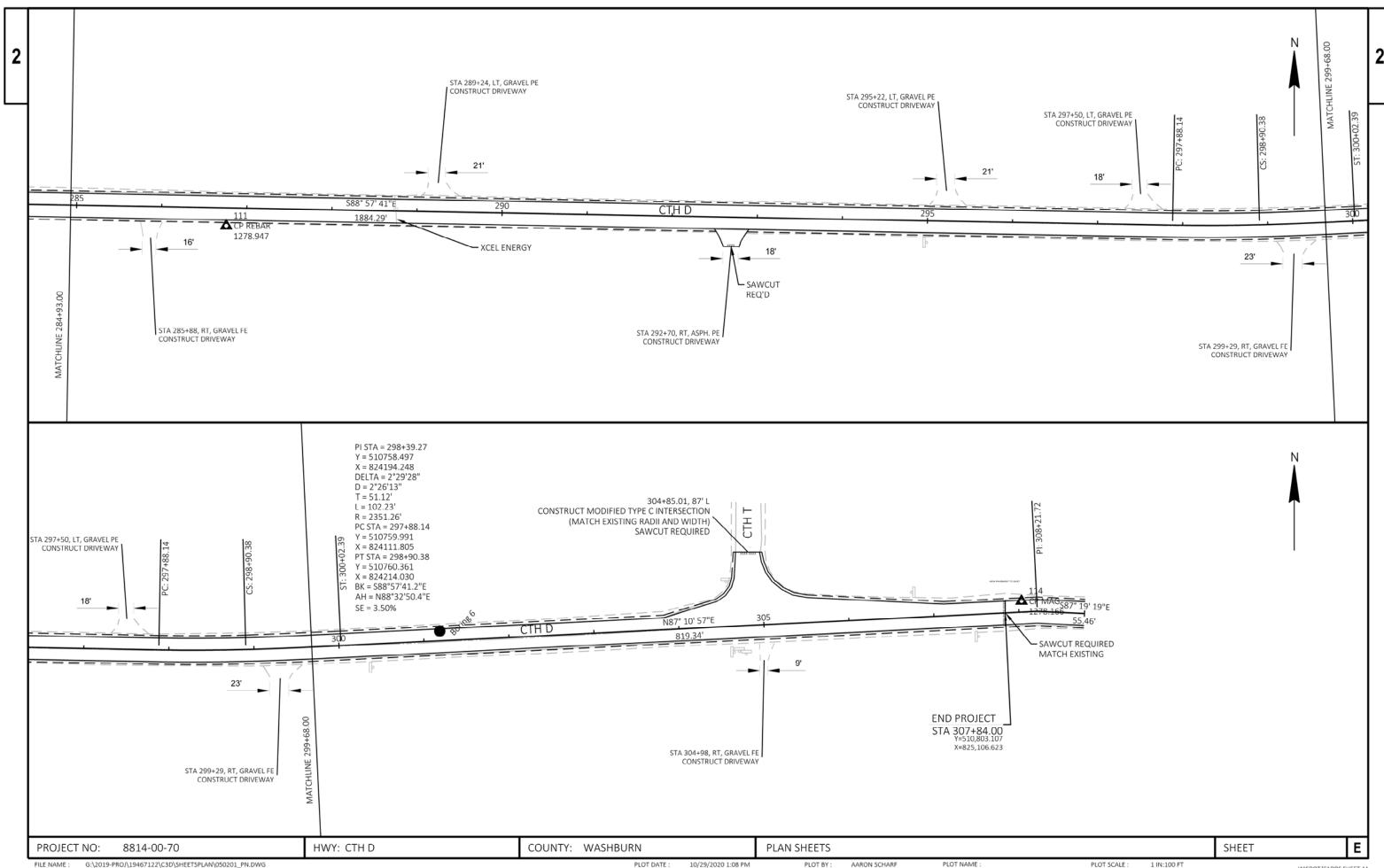
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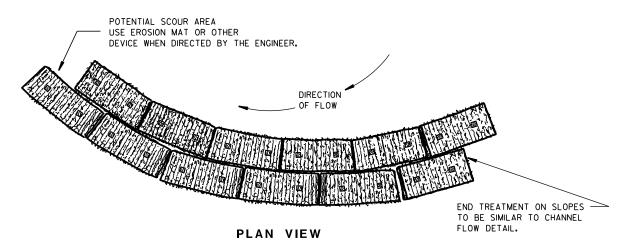
## Standard Detail Drawing List

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)
14B42-06A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

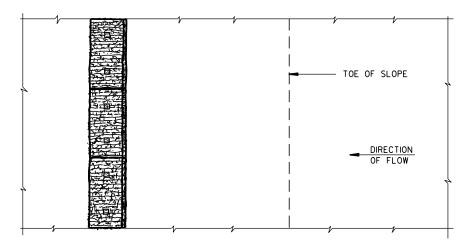
#### **GENERAL NOTES**

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.

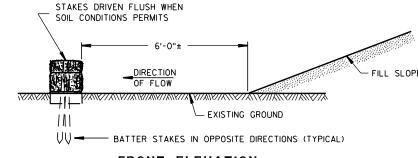
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



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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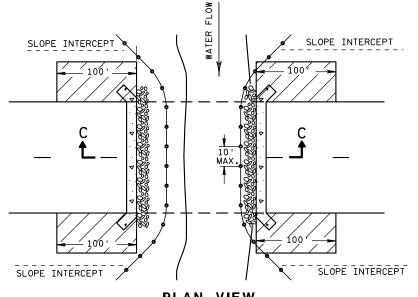
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#### **GENERAL NOTES**

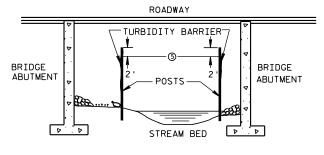
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

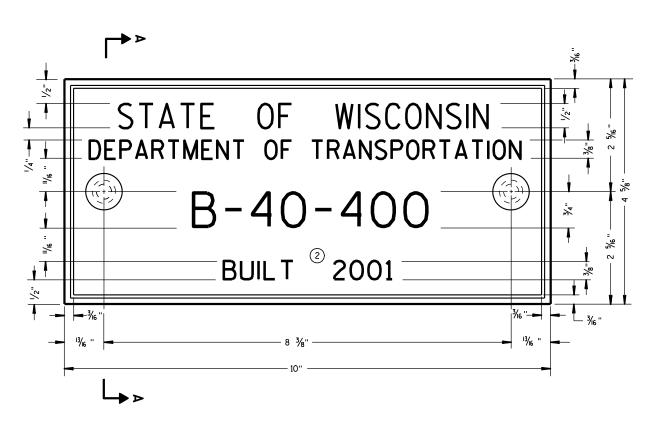
APPROVED

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

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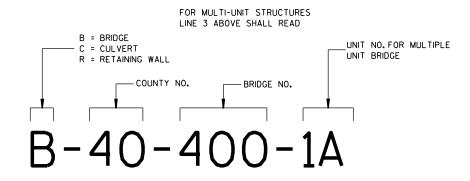
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### TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



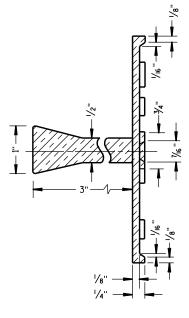
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

#### **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.

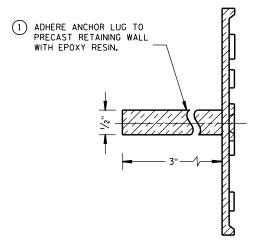
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

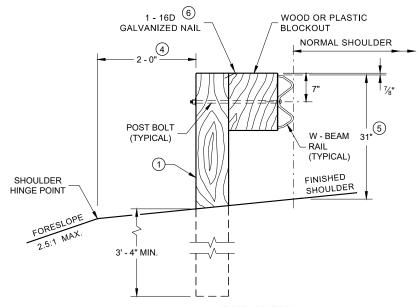
## NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

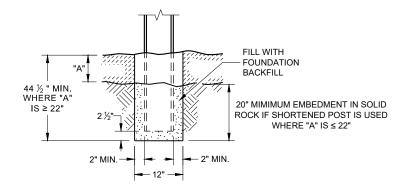
APPROVED

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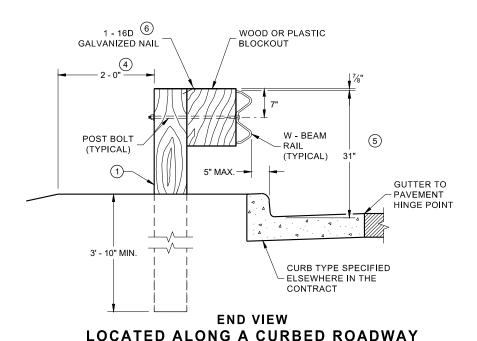
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- $\ \, \ \,$  IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES 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
- 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).
- $_{\mbox{\scriptsize (5)}}$  FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS +1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27  $^3\!4''$  TO 32".
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

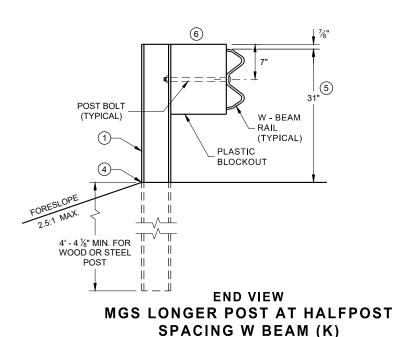


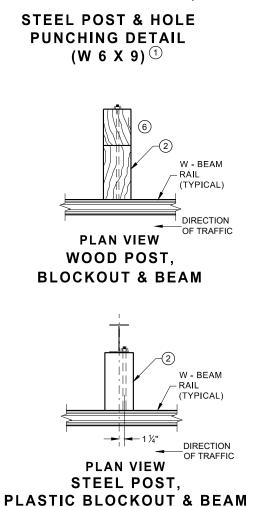
**END VIEW** LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION

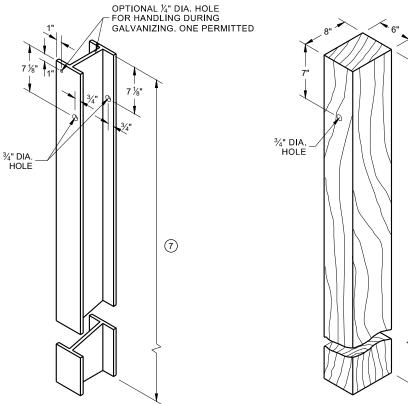


**END VIEW** SETTING STEEL OR WOOD POST IN ROCK

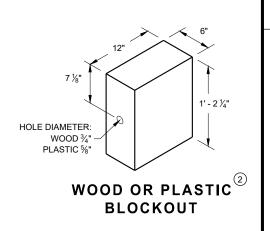








WOOD POST (6" X 8") NOMINAL



MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION SD

### **FRONT VIEW** HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

3' 1½" C -C 3' 1½" C - C POST SPACING POST SPACING

6' 3" C - C

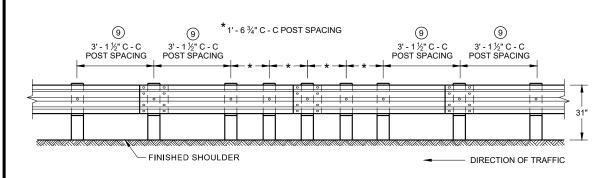
POST SPACING

DIRECTION OF TRAFFIC

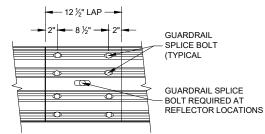
6' - 3" C -C

POST SPACING

FINISHED SHOULDER

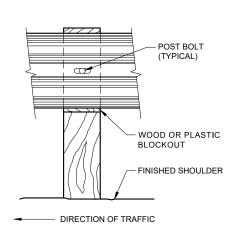


FRONT VIEW **QUARTER POST SPACING (QS)** 



**FRONT VIEW MID-SPAN BEAM SPLICE** 

FRONT VIEW AT STEEL POST



**GENERAL NOTES** 

OF QUARTER POST SPACING.

RECESSED (DR) HEAVY HEX NUT.

OF THE ENERGY ABSORBING TERMINAL.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END

(9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS

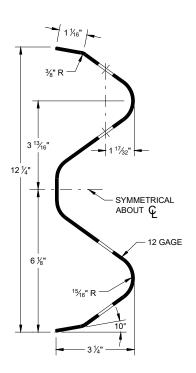
POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT

GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE

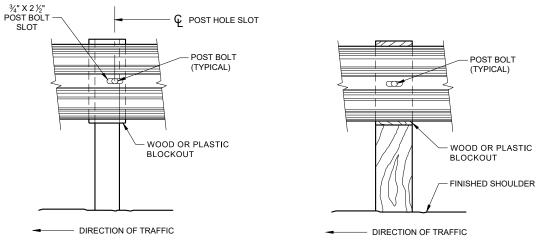
REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %"

DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS

FRONT VIEW AT WOOD POST



**SECTION THRU W-BEAM RAIL** 



4" X 12" DELINEATOR REFLECTOR (REFER TO SDD 15A4 FOR DELINEATOR SPACING) WOOD OR PLASTIC BLOCKOUT MOUNT WITH TWO 3/16" X 2 1/2" TRIPLE COATED SCREWS WITH WASHERS WOOD OR STEEL POST - DIRECTION OF TRAFFIC

**ONE SIDED REFLECTOR DETAIL** AND TYPICAL INSTALLATION

**MIDWEST GUARDRAIL SYSTEM** (MGS) GUARDRAIL

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

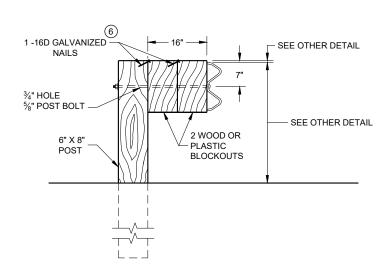
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SDD

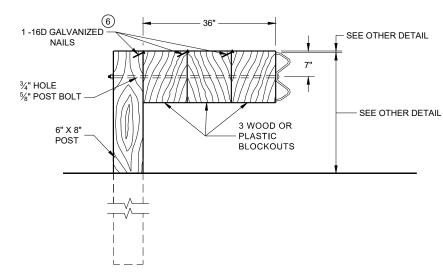
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#### **DETAIL FOR 16" BLOCKOUT DEPTH**

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.



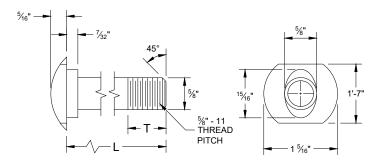
#### **DETAIL FOR 36" BLOCKOUT DEPTH**

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.

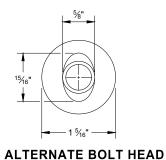
#### NOTE:

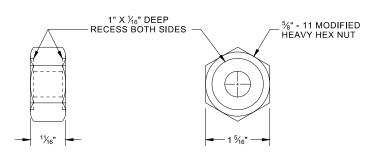
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF  $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN  $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



#### **POST BOLT TABLE**

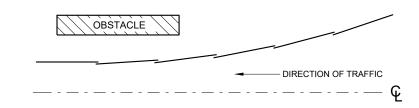
L	T (MIN.)
1 1⁄4"	1 1/4"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



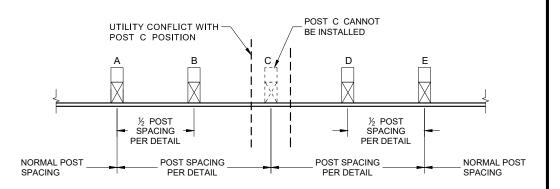


# POST BOLT, SPLICE BOLT AND RECESS NUT

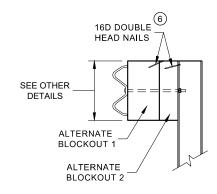
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

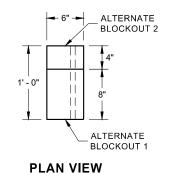


## PLAN VIEW BEAM LAPPING DETAIL



# POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

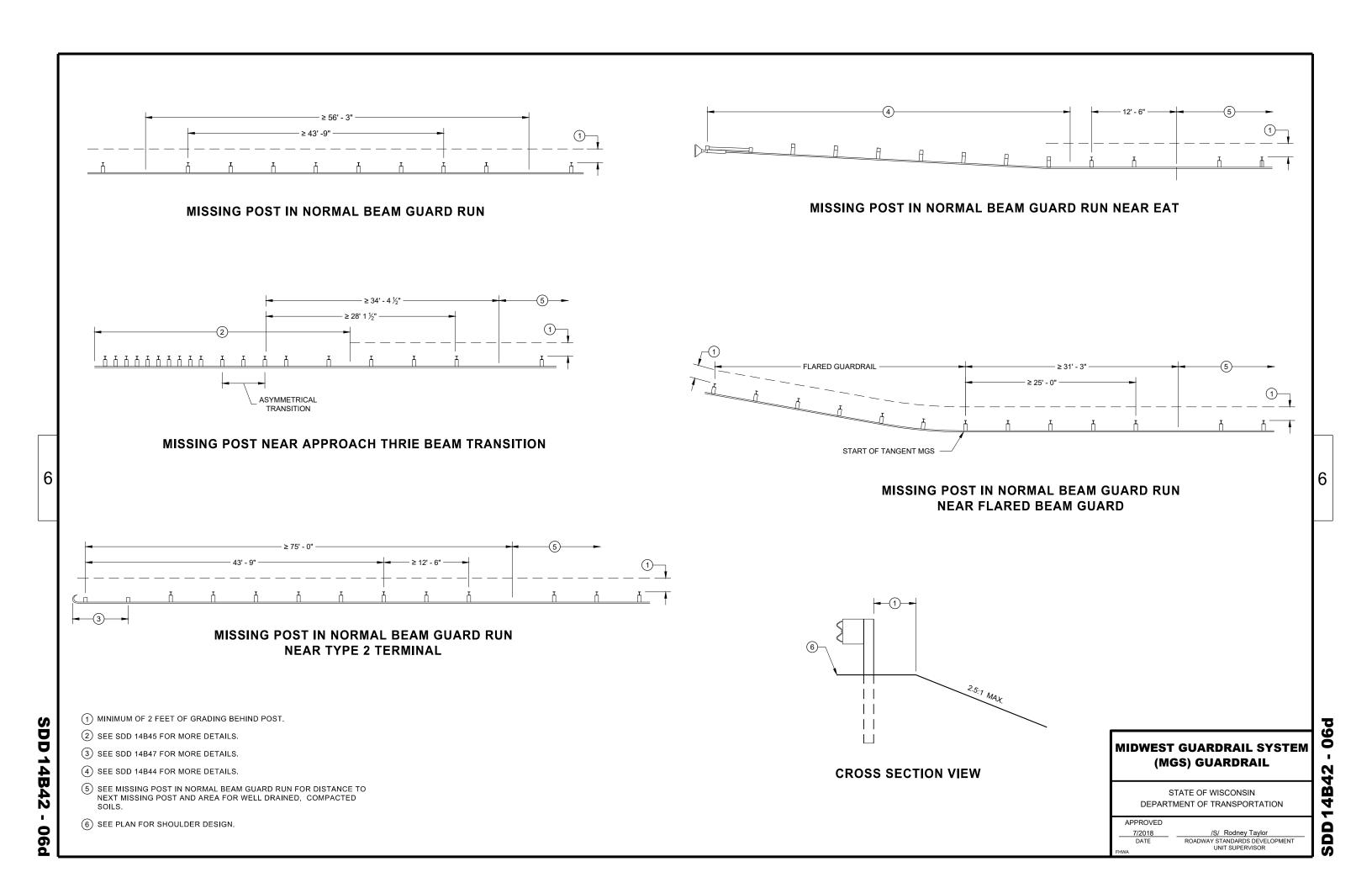
ALTERNATE WOOD BLOCKOUT DETAIL

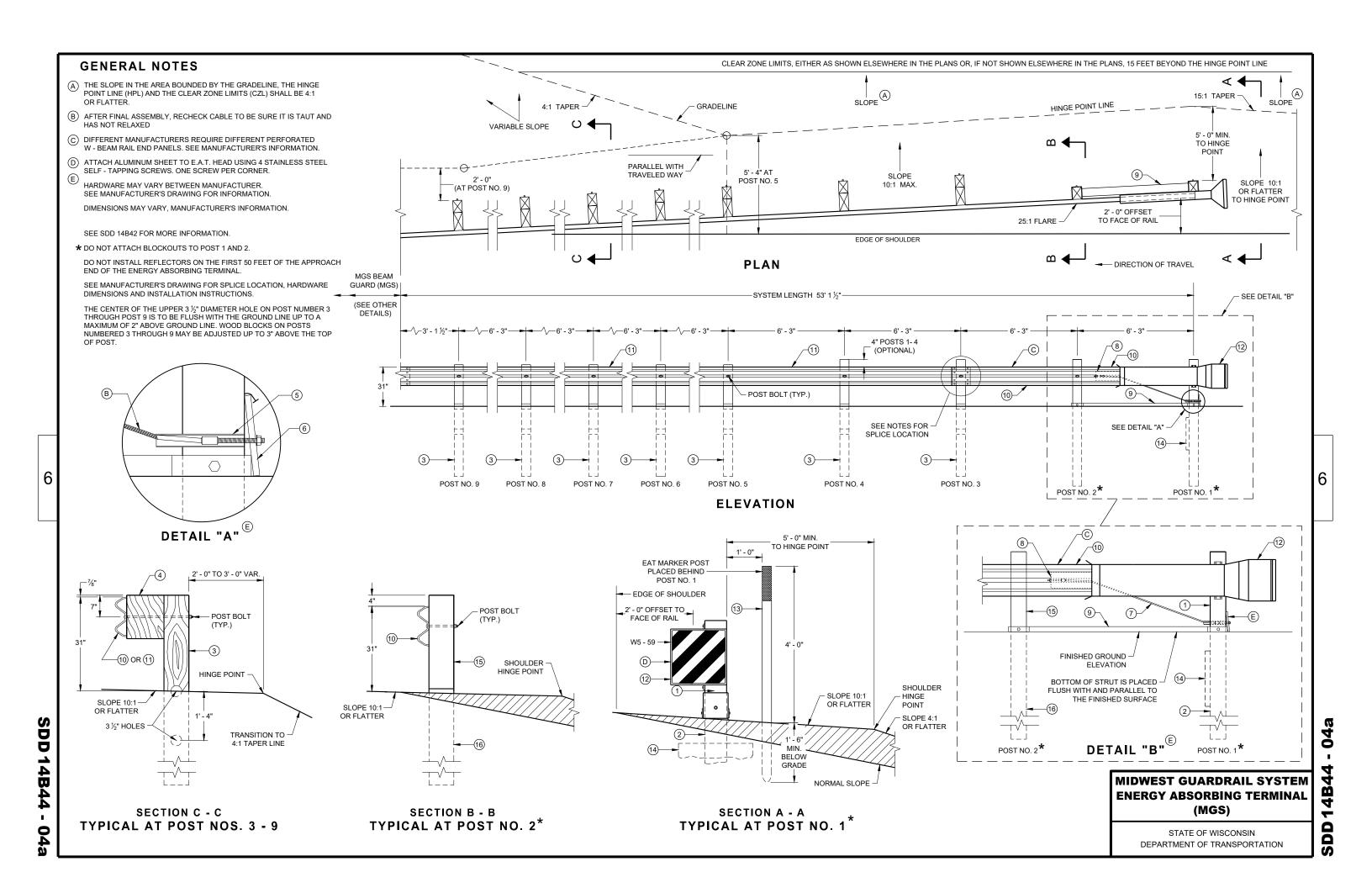
# MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

90

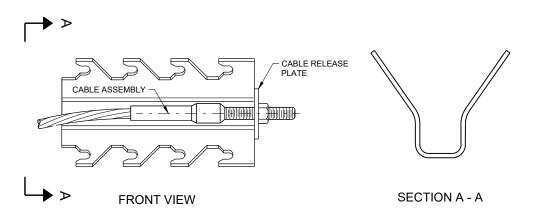
SD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

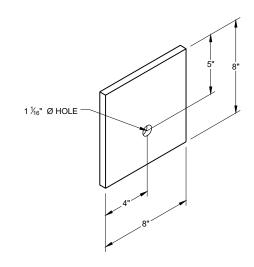




GENERIC GROUND STRUT



GENERIC ANCHOR CABLE BOX <sup>(9) (E)</sup>



BEARING PLATE

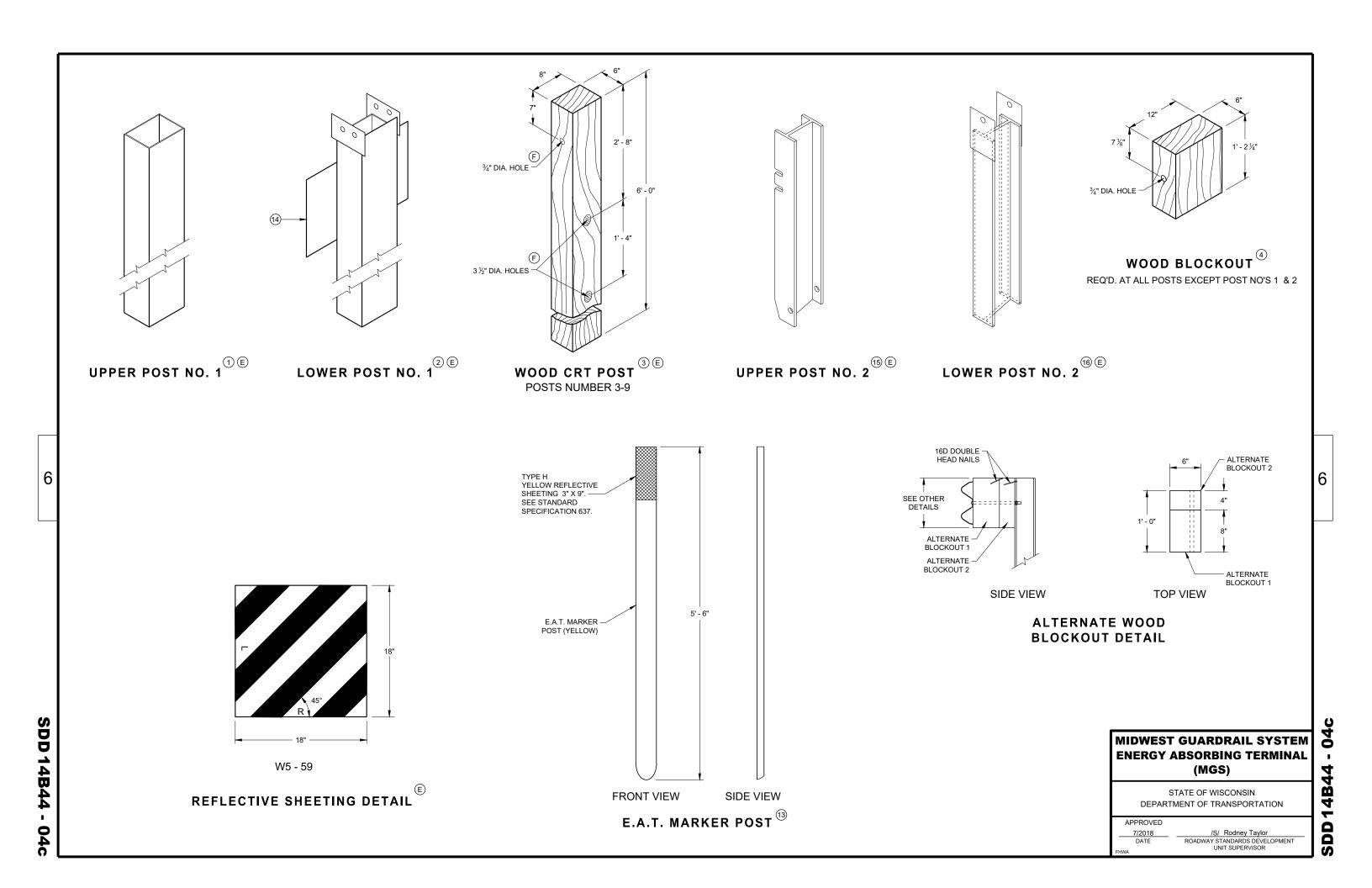
### MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

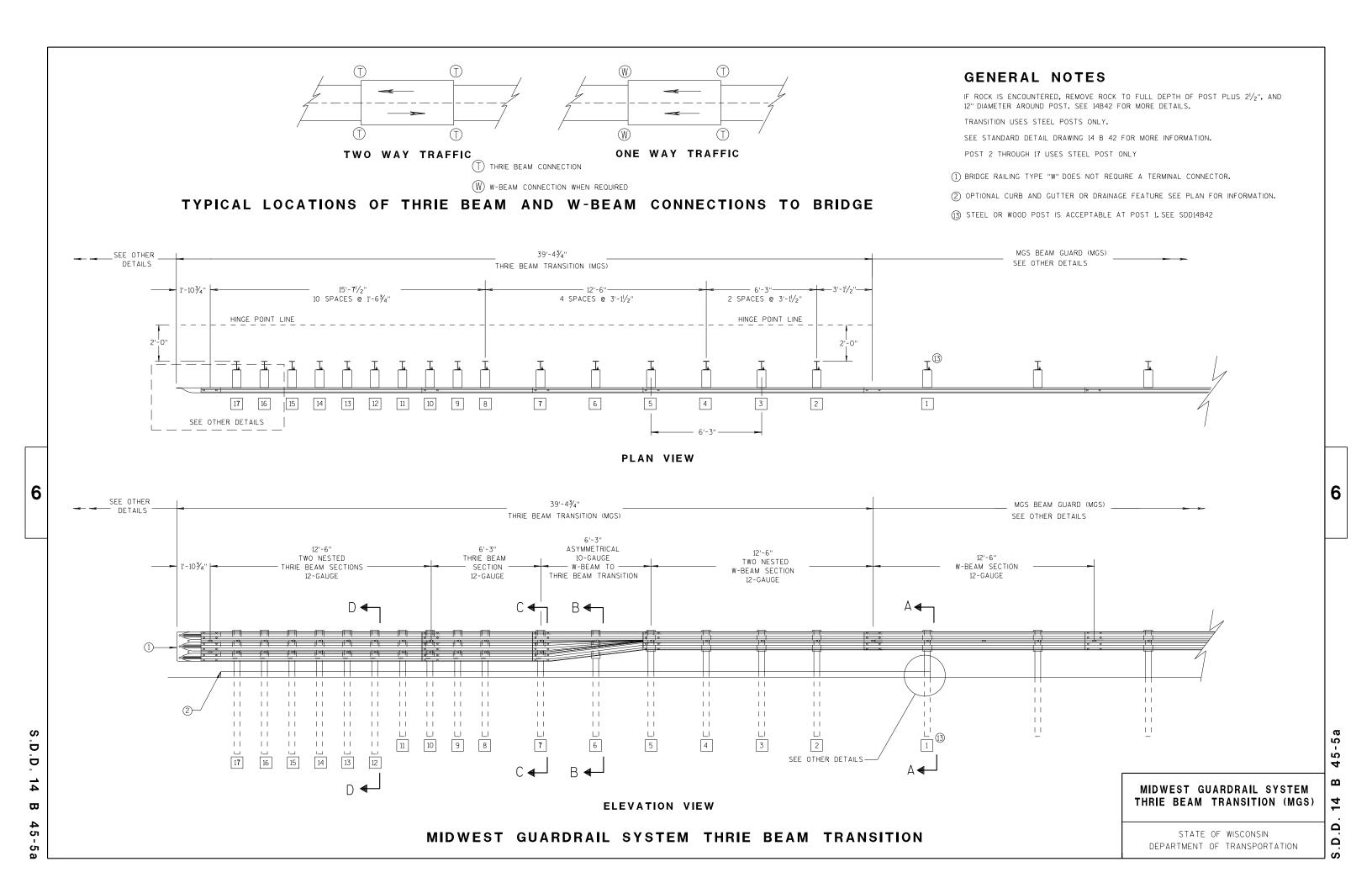
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

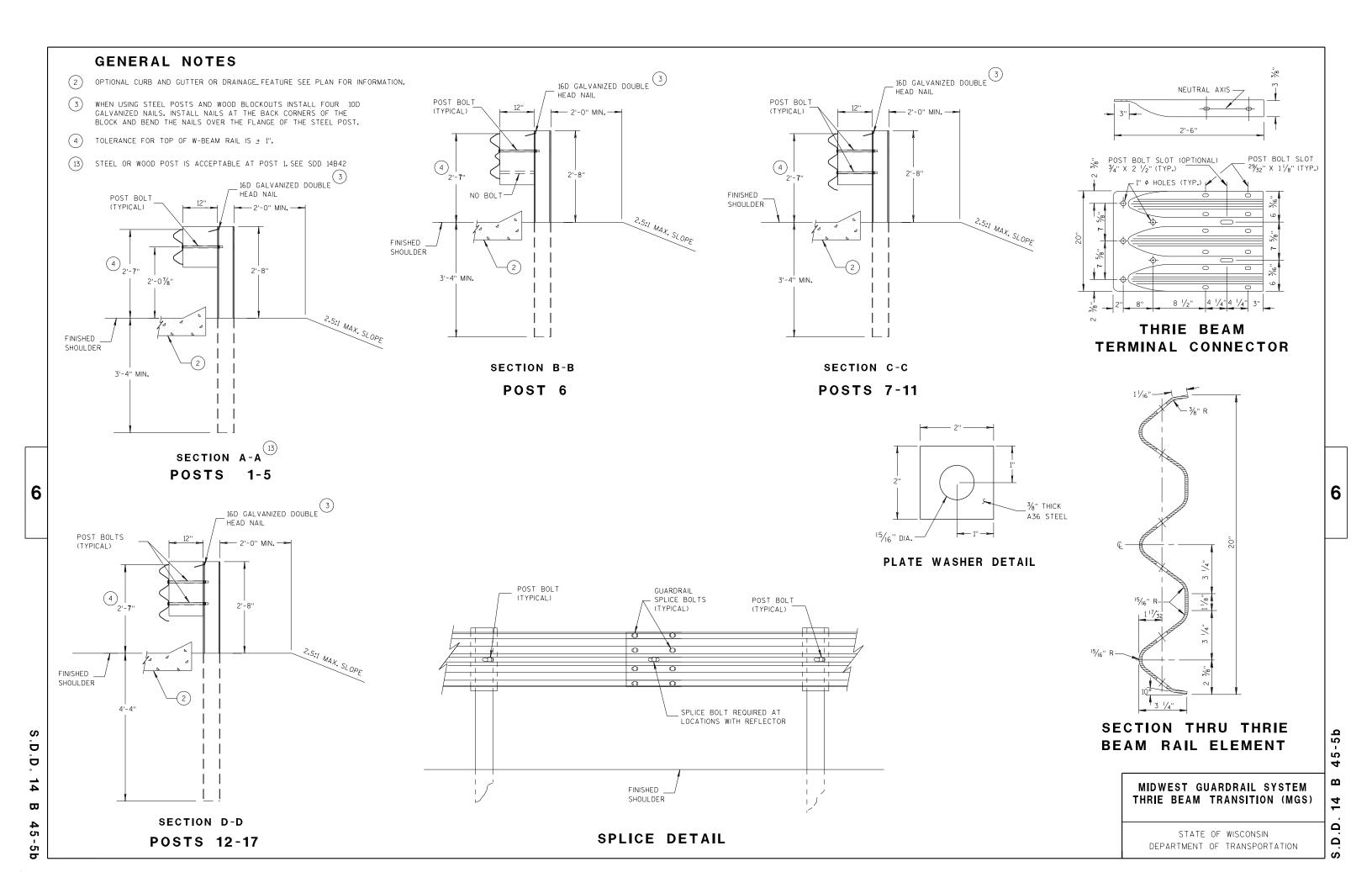
6

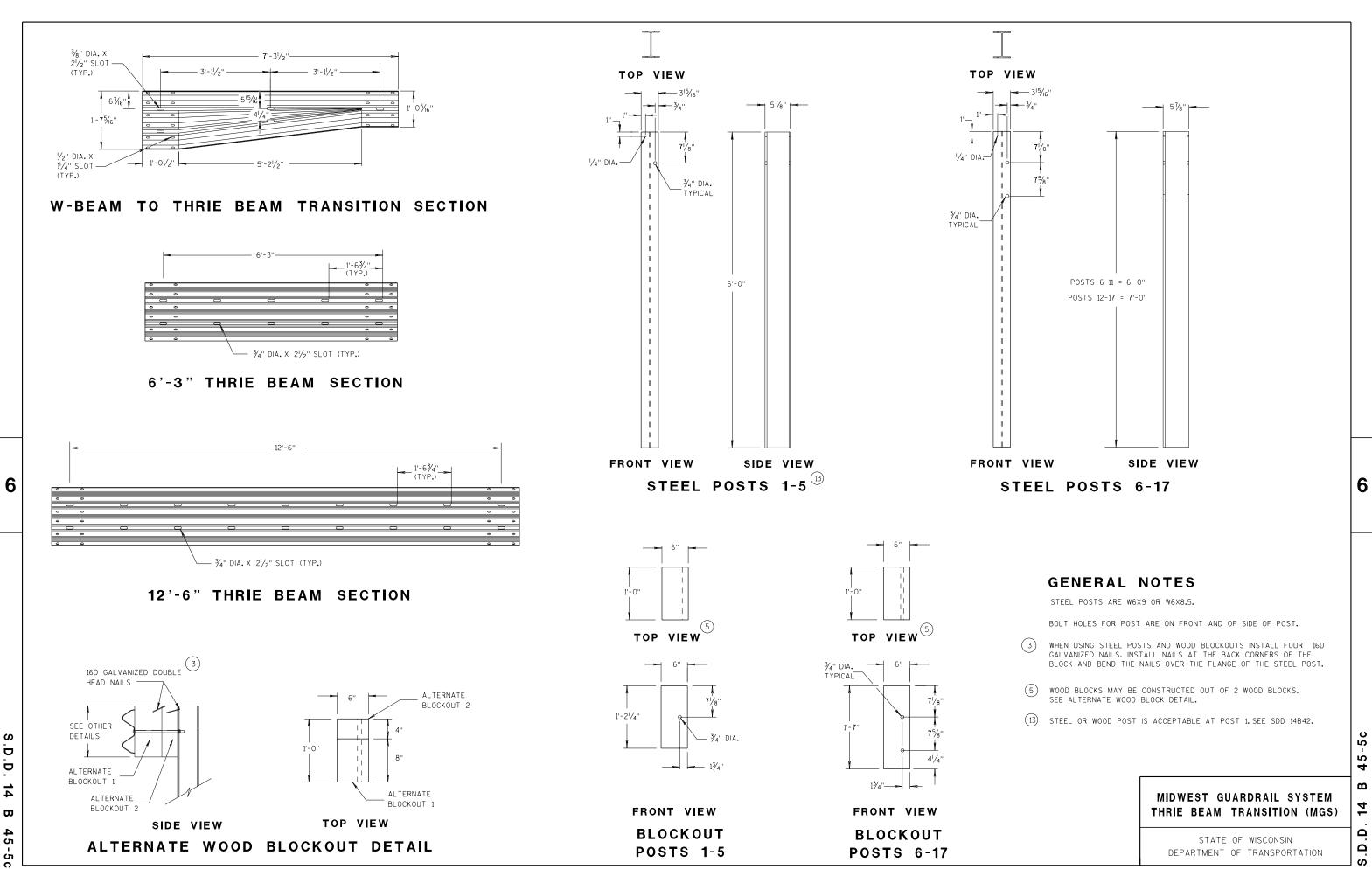
**SDD 14B44** 

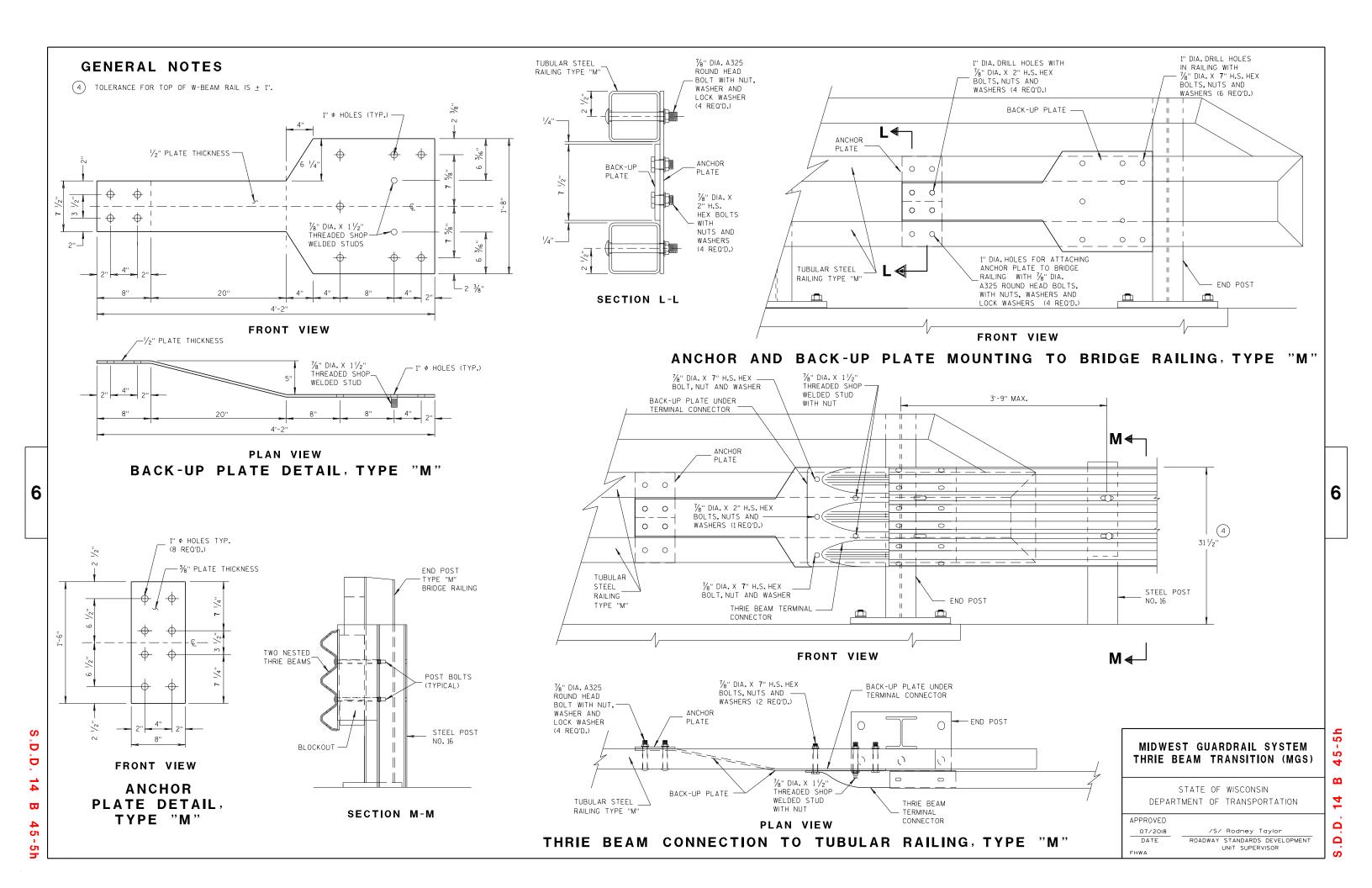
SDD 14B44 - 04

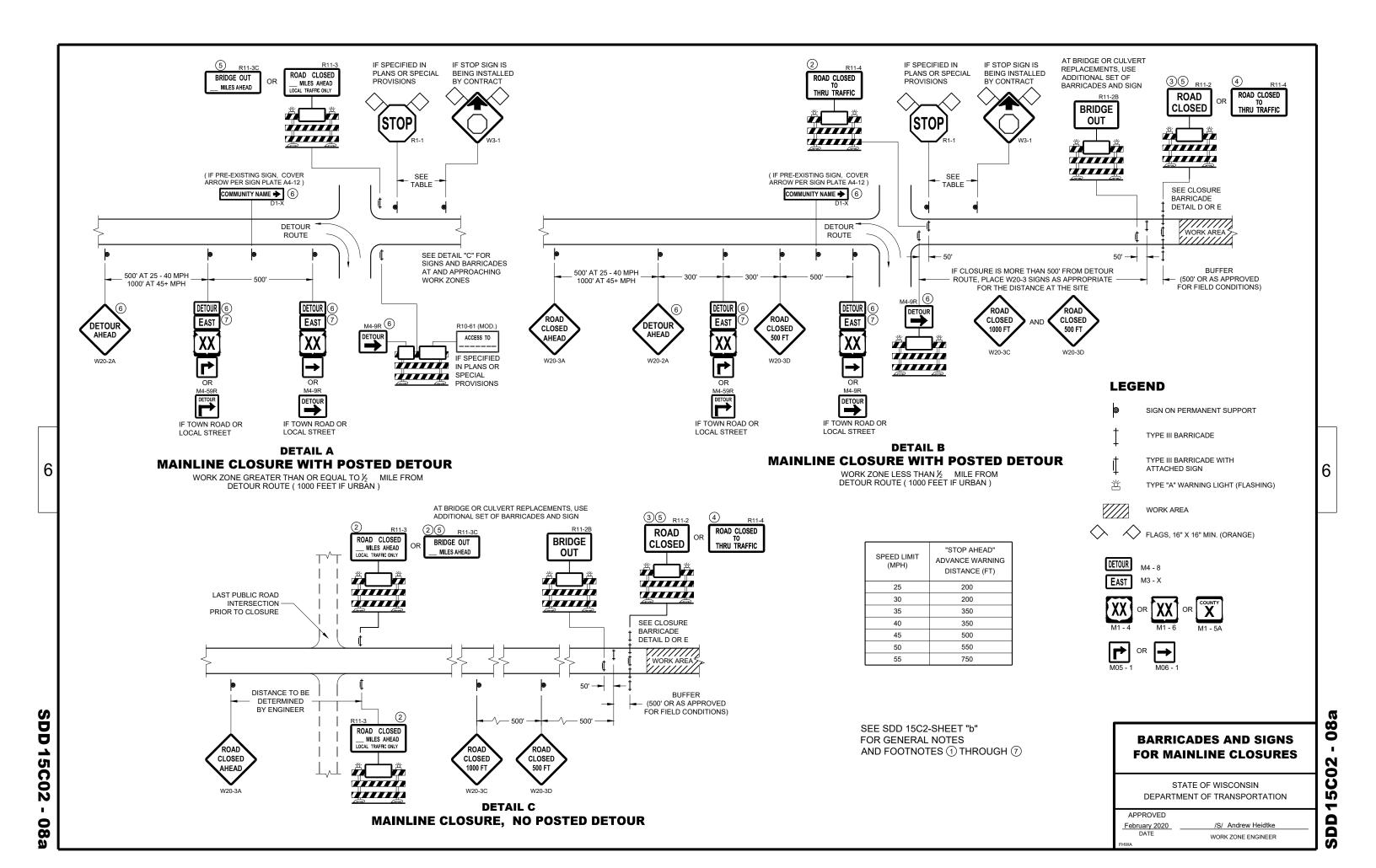


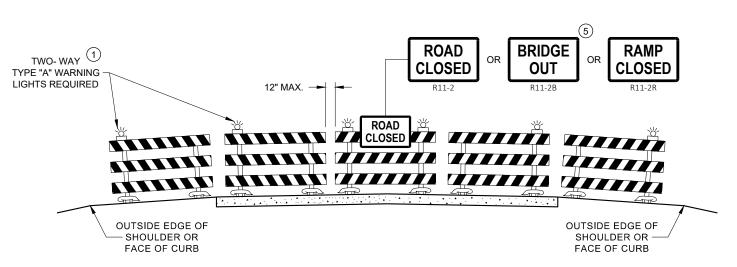




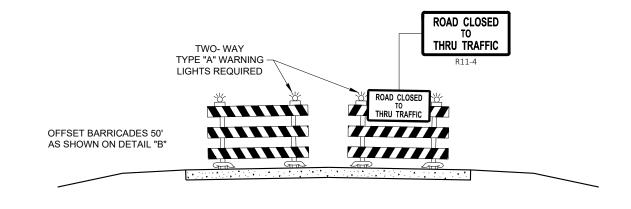








# DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



# DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

#### **GENERAL NOTES**

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

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

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

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

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

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

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

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

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

R11 - 2 SHALL BE 48" X 30"

R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"

M4 - 9 SHALL BE 30" X 24"

M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)

D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

R1 - 1 SHALL BE 36" X 36"

- 1 TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE <u>WITHOUT</u> LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 2 AND R11 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- (7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

#### BARRICADES AND SIGNS FOR VARIOUS CLOSURES

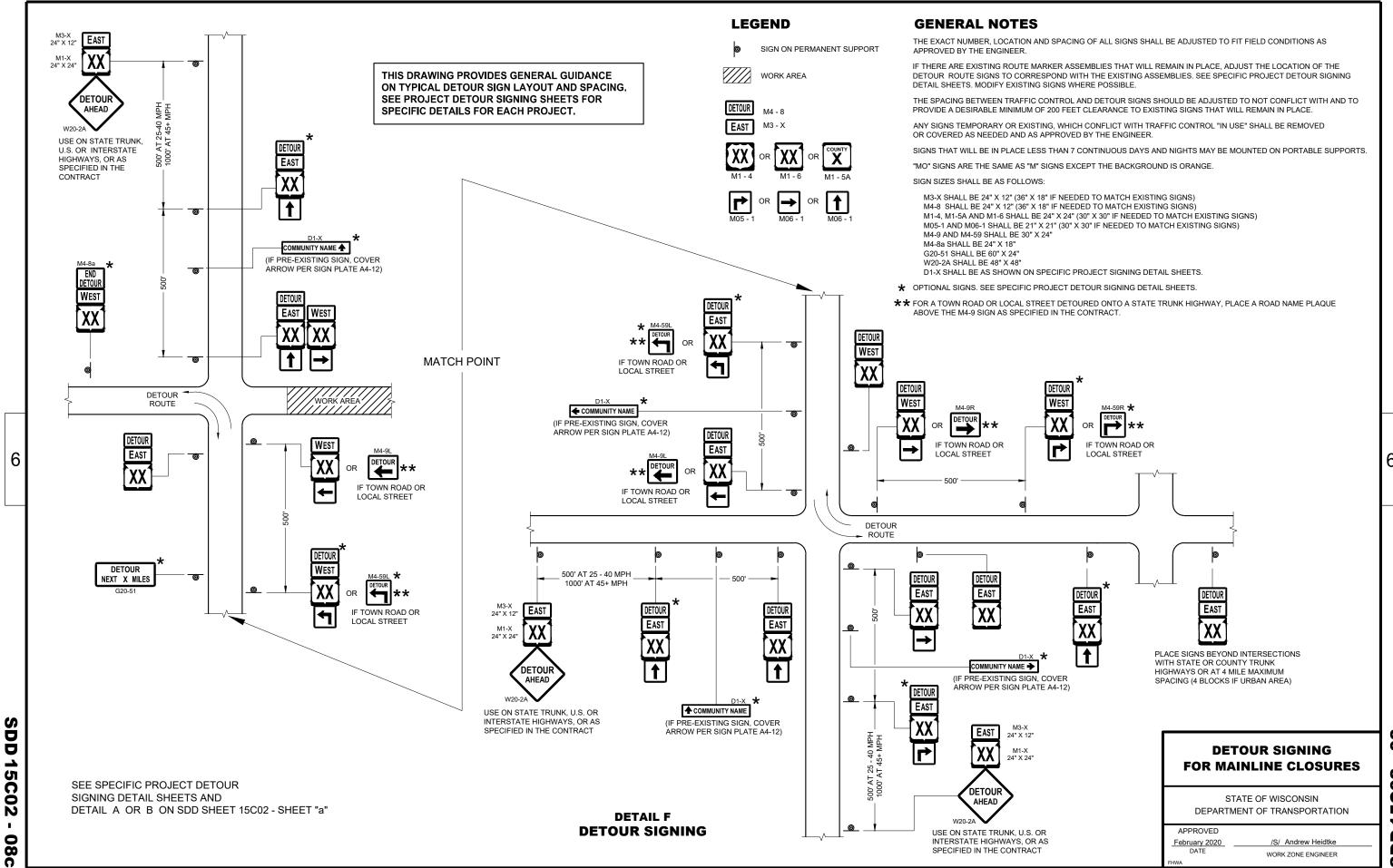
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

February 2020
DATE

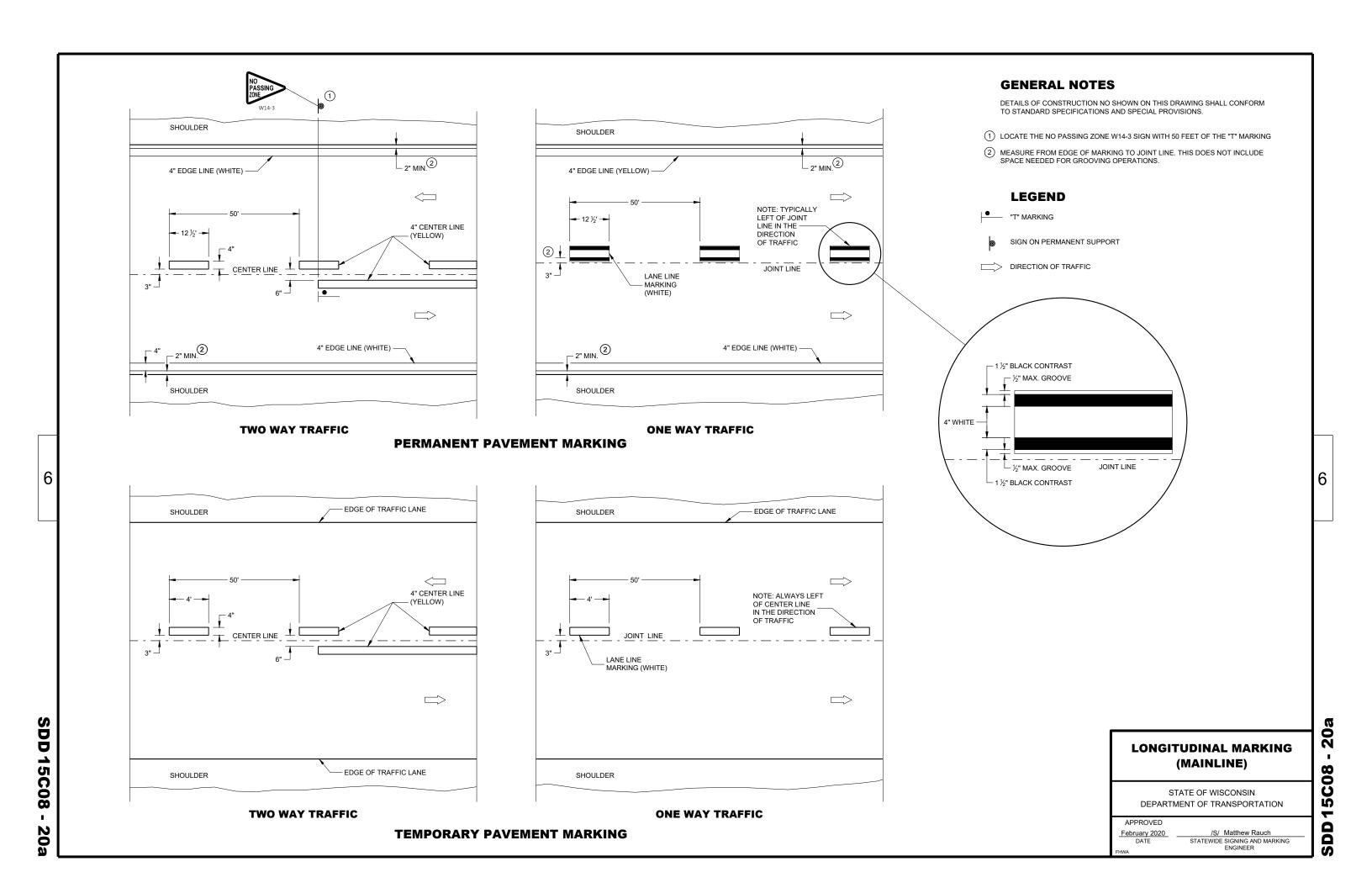
/S/ Andrew Heidtke
WORK ZONE ENGINEER

DD 15C02 - 08



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TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

#### URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH** 

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREM	MENTS	NUMBER OF	
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	٤
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

-11

D 15 D  $\infty$ 

6

Δ

 $\infty$ 

6

- 11/2" DIAMETER HOLES

Ω

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

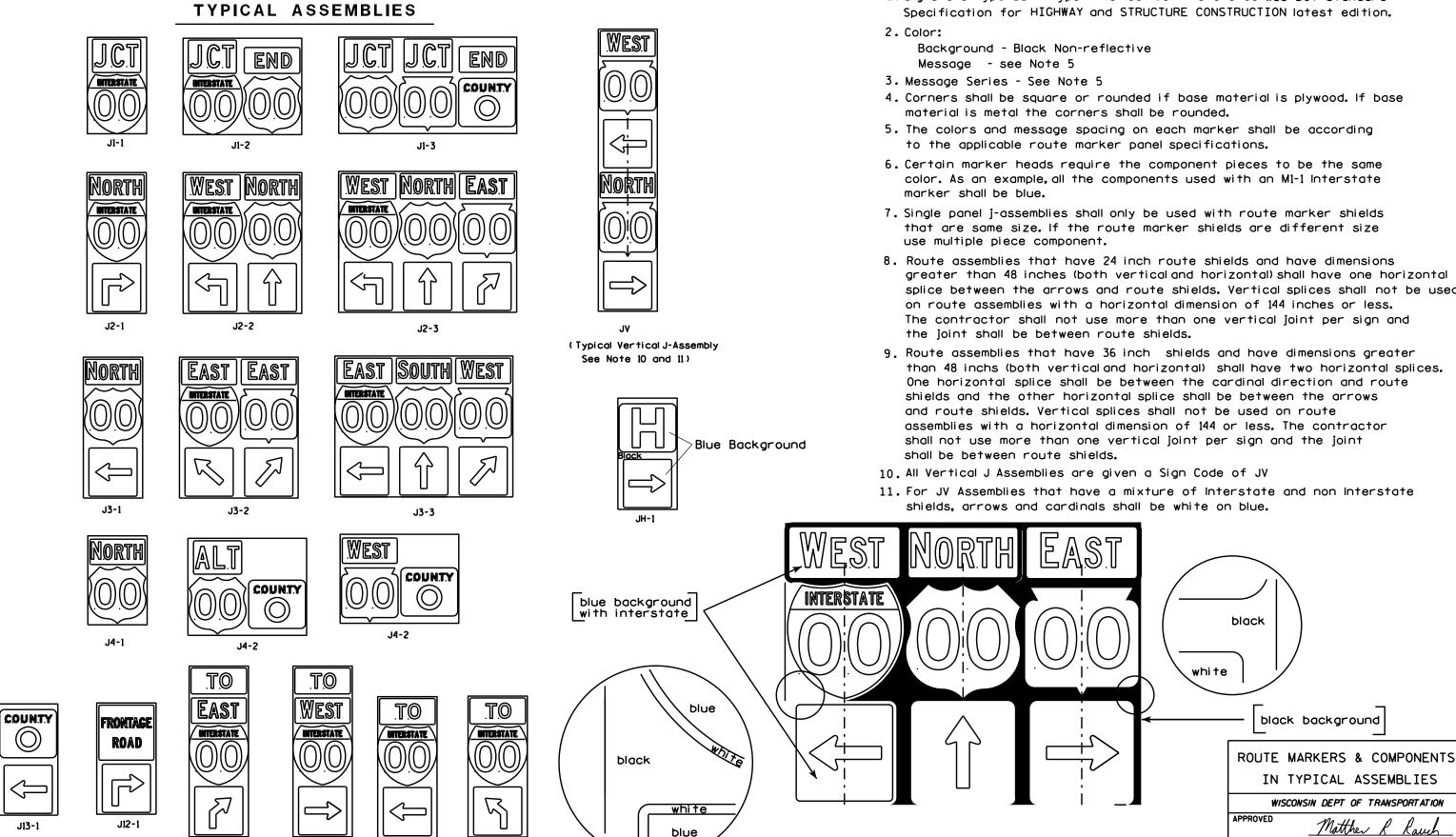
> /S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

June 2017
DATE

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard

areater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.



PROJECT NO:

J32-1

J22-1

J23-1

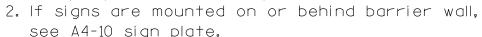
J33-1

PLOT BY: mscsja

PLATE NO. \_\_A2-15.8

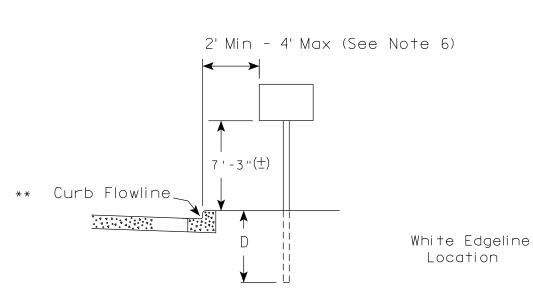
DATE 2/06/14

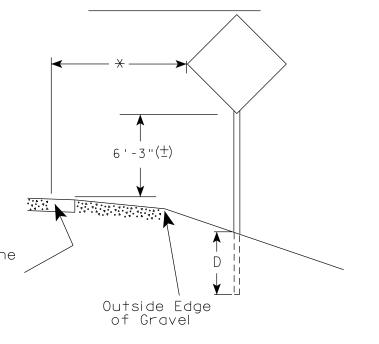
SHEET NO:



The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52). Mile Markers (D10 series). In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3'' ( $\frac{+}{-}$ ).

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





2' Min - 4' Max (See Note 6) 6'-3"(±) \*\* Curb Flowline D

5'-3"(士) White Edgeline  $D \parallel$ 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.

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 For State Traffic Engineer

DATE 5/13/2020 

SHEET NO:

Ε

PROJECT NO: FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A43.dgn COUNTY:

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plo†scale.....\$\$ WISDOT/CADDS SHEET 42

PLOT DATE: 13-MAY 2020 1:04



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



#### ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



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

HWY:



#### PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

#### GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3'' (±) or 6'-3'' (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' ( $\pm$ ) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8). Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4''-3'' (±).
- \* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- \*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- \*\* \* See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

### POST EMBEDMENT DEPTH

D
(Min)
4'
5'

WISCONSIN DEPT OF TRANSPORTATION APPROVED For State Traffic Engineer DATE 8/21/17 PLATE NO. <u>A4-4.15</u>





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

HWY:

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 108" to 144"	12''

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A44.DGN

PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT SCALE: 108.188297:1.000000

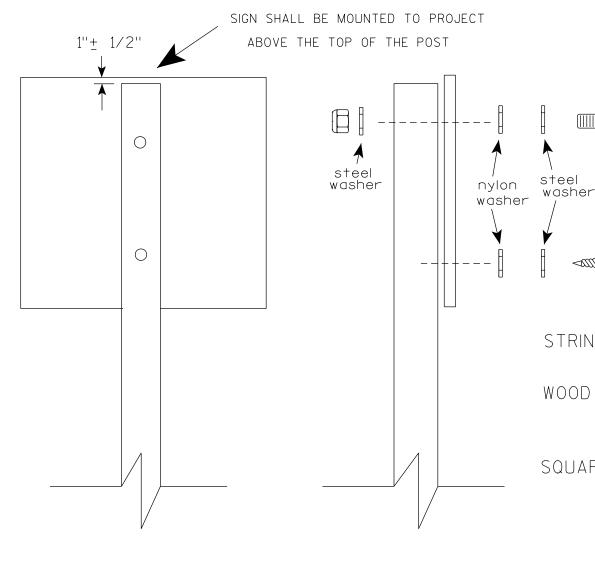
WISDOT/CADDS SHEET 42

OF TYPE II SIGNS ON MULTIPLE POSTS

TYPICAL INSTALLATION

SHEET NO:

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



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either:

- a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3
- b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.

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

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS -  $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS  $(4'' \times 6'')$ 

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN) 3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 3/32 " (6605-9-6) BULB-TITE. TRI-FOLD. ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X  $\frac{3}{8}$ " I.D. X  $\frac{1}{16}$ " STEEL 1-1/4" O.D. X  $\frac{3}{8}$ " I.D. X .080 NYLON

Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq.ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

APPROVED

DATE 4/1/2020

PLATE NO. <u>A4-8.9</u>

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A48.DGN

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

WISCONSIN DEPT OF TRANSPORTATION

Matther ≠or State Traffic Engineer

SHEET NO:



PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

For State Traffic Engineer



#### BANDING



SINGLE SIGN





# WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

1-1/4" O.D. X<sup>3</sup>/<sub>8</sub>" I.D. X<sup>1</sup>/<sub>16</sub>" STEEL 1-1/4" O.D.  $\times \frac{3}{8}$ " I.D.  $\times$  .080 NYLON FOR ALL TYPE H SIGNS

CHANNEL

#### GENERAL NOTES

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be  $\frac{3}{4}$ " in width and 0.025" thickness.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
  - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
  - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

#### "J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

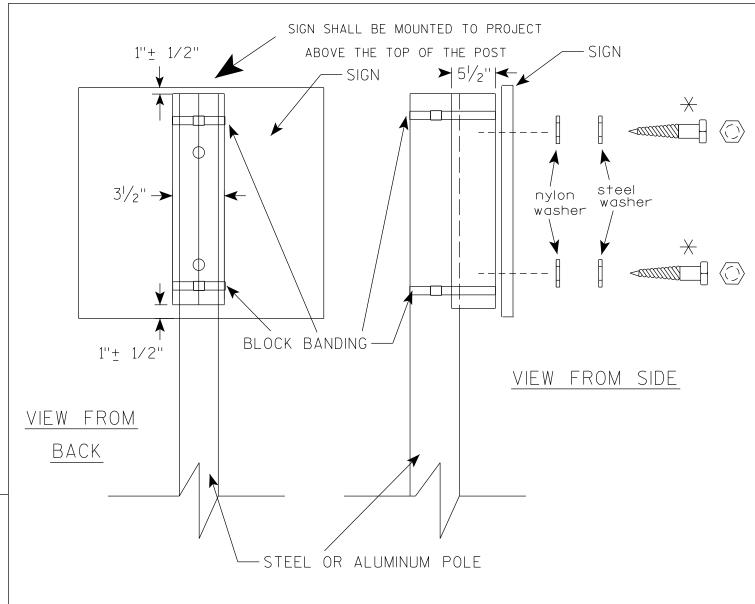
State Traffic Engineer

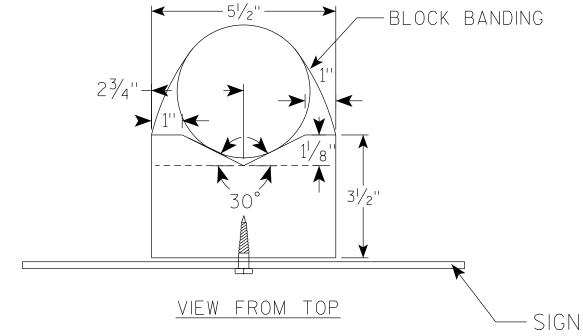
COUNTY:

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

PROJECT NO:





#### GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL,  $\frac{3}{4}$ " WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS.

  SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
  - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
  - b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE  $1\frac{1}{4}$ " O.D. X  $\frac{3}{8}$ " I.D. X  $\frac{1}{16}$ "
- 8. NYLON WASHERS SHALL BE  $1^{1}/_{4}$ " O.D. X  $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

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

BLOCK BANDING DETAIL ( V-BLOCK OPTION )

WISCONSIN DEPT OF TRANSPORTATION

Matthew R

APPROVED

For State Traffic Engineer

SHEET NO:

DATE <u>6/10/19</u>

PLATE NO. <u>A5-10.2</u>

PROJECT NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A510.dgn

PLOT DATE: 10-JUN 2019 4:15

PLOT BY : mscj9h

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

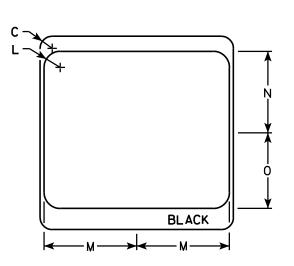
Background - White & Black - See Note 7 Message - Black

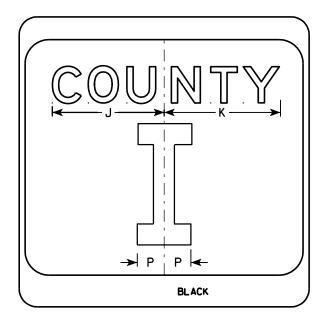
- 3. Message Series see Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Message Series E for 1 letter.

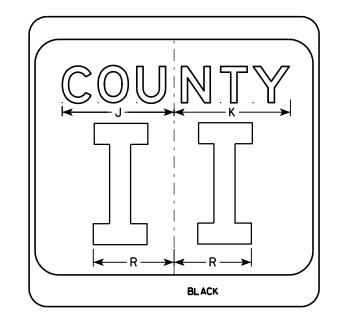
  Message Series D for 2 letters unless
  message is too big then Series C.

  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	/V.					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

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

DATE 9/27/11

SHEET NO:

**BLACK** 

M1-5A

- 1. Sign is Type II Type H
- 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. M2-1 Background White

Message - Black

MB2-1 Background - Blue

Message - White

MK2-1 Background - Green

Message - White

MM2-1 Background - White

Message - Green

MN2-1 Background - Brown

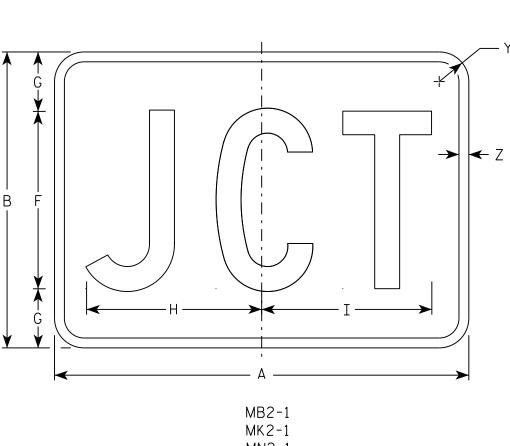
Message - White

MP2-1 Background - White

Message - Blue

MR2-1 Background - Brown

Message - Yellow



MN2-1

MR2-1

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	J	V	W	X	Υ	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 1/8	8 %																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40

COUNTY:

В

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rauch  $f_{or}$  State Traffic Engineer

DATE 10/15/15

PLATE NO. M2-1.12 Ε

SHEET NO:

FILE NAME · C·\CAFfiles\Projects\tr stdplote\M21 DGN

PROJECT NO:

M2-1

HWY:

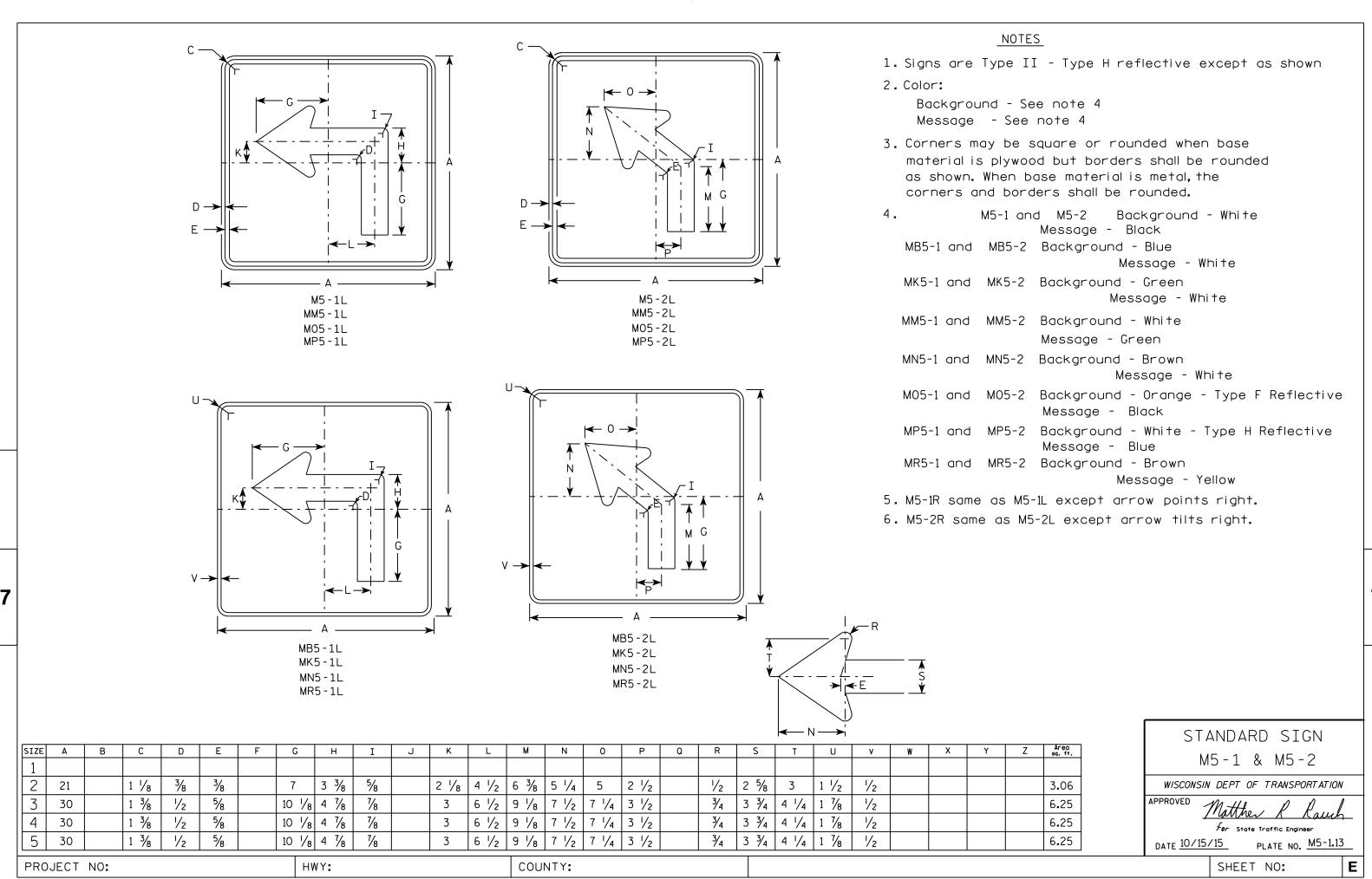
MM2-1

MP2-1

PLOT DATE . 01-DEC-2015 17:54

PLOT BY . \$\$ Diotuser \$\$ PLOT NAME :

PLOT SCALE • 4 864603•1 000000

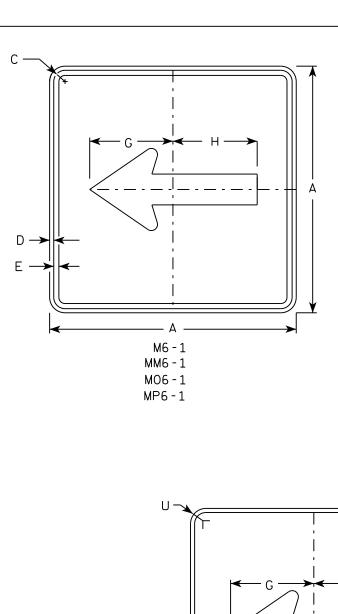


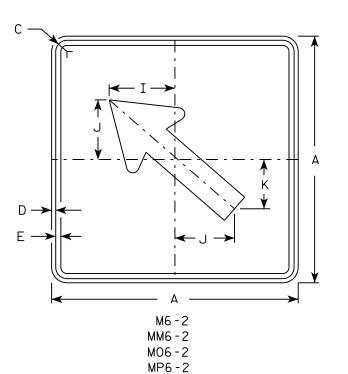
FILE NAME . C.\CAFfiles\Projects\tr stdolote\M51 DCN

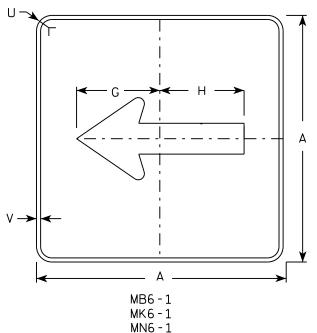
PLOT DATE . 01-DEC-2015 18:07

PINT RY . \$\$ DIOTUSET \$\$ PINT NAMF :

PLOT SCALE . 11 675051.1 000000

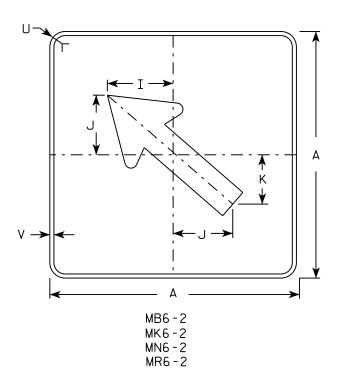






MR6-1

HWY:



#### NOTES

- 1. Signs are Type II Type H except as Shown
- 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

Message - Black

MB6-1 and MB6-2 Background - Blue

Message - White

MK6-1 and MK6-2 Background - Green

Message - White

MM6-1 and MM6-2 Background - White

Message - Green

MN6-1 and MN6-2 Background - Brown

Message - White

M06-1 and M06-2 Background - Orange - Type F Reflective

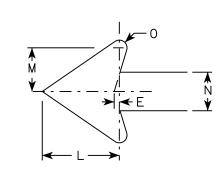
Message - Black

MP6-1 and MP6-2 Background - White

Message - Blue

MR6-1 and MR6-2 Background - Brown

Message - Yellow



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	٥	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1 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 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
4	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
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

Matthew & Rawl For State Traffic Engineer

Ε

DATE 10/15/15 PLATE NO. M6-1.15

SHEET NO:

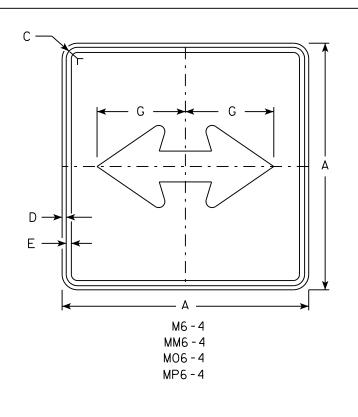
FILE NAME · C·\CAFfiles\Projects\tr stdplote\M61 DCN

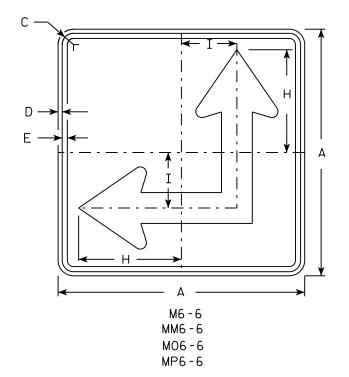
PROJECT NO:

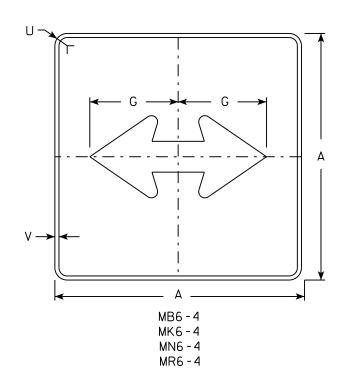
PLOT DATE . 01-DEC-2015 17:57

PIOT RY . \$\$ plotuser \$\$ PIOT NAMF :

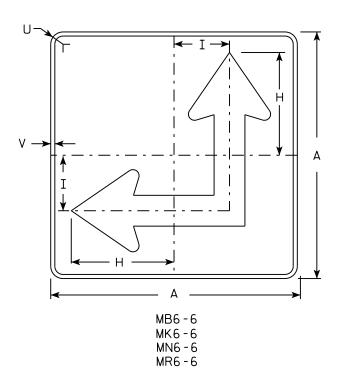
PLOT SCALE . 11 675051.1 000000







HWY:



#### NOTES

- 1. Signs are Type II Type H except as Shown
- 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 Message - Black

MB6-4 and MB6-6 Background - Blue

Message - White

MK6-4 and MK6-6 Background - Green

Message - White

and MM6-6 Background - White MM6-4

Message - Green

MN6-4 and MN6-6 Background - Brown

Message - White

M06-4 and M06-6 Background - Orange - Type F Reflective

Message - Black

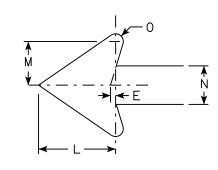
MP6-4 and MP6-6 Background - White

Message - Blue

MR6-4 and MR6-6 Background - Brown

Message - Yellow

5. M6-6R same as M6-6L except arrow points ahead and right.



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	a	R	S	T	U	٧	W	X	Y	Z	Area 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 5/8	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	3/4						1 1/8	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

SHEET NO:

APPROVED

DATE 10/15/15

PLATE NO. M6-4.10 Ε

PLOT DATE . 01-DEC-2015 17.58

PLOT RY . \$\$ plotuser \$\$ PLOT NAME :

PLOT SCALE . 11 675051.1 000000

PROJECT NO:



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

Background - Red Message - White

3. Message Series - C

<b>*</b>								— А — ;								<b></b>			<b>A</b>	
									H			- G -							F	A
		E						               	-1			_//								*
D	E	F	G	н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х

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

COUNTY:

STANDARD SIGN R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE <u>11/12/15</u>

PLATE NO. \_\_\_\_R1-1.13

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\R11.DGN

HWY:

PROJECT NO:

PLOT DATE: 22-AUG-2017 07:19

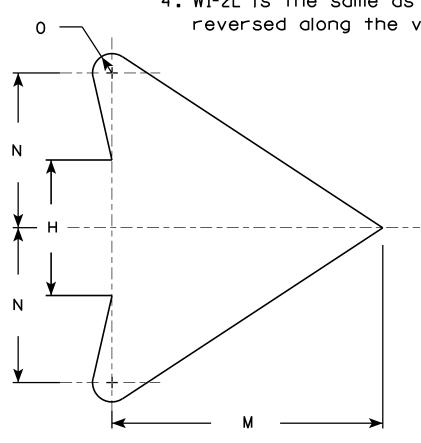
PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: 4.427909:1.000000

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

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



ARROW	DETAIL

	W1-2R																ANNOW BETAIL										
SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	v	W	×	Y	Z	Areg sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
25	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 %	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 %	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 %	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 %	14 1/2	14	8	1												16.0

COUNTY:

STANDARD SIGN W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

DATE <u>5/15/12</u>

PLATE NO. W1-2.10

SHEET NO:

PROJECT NO:

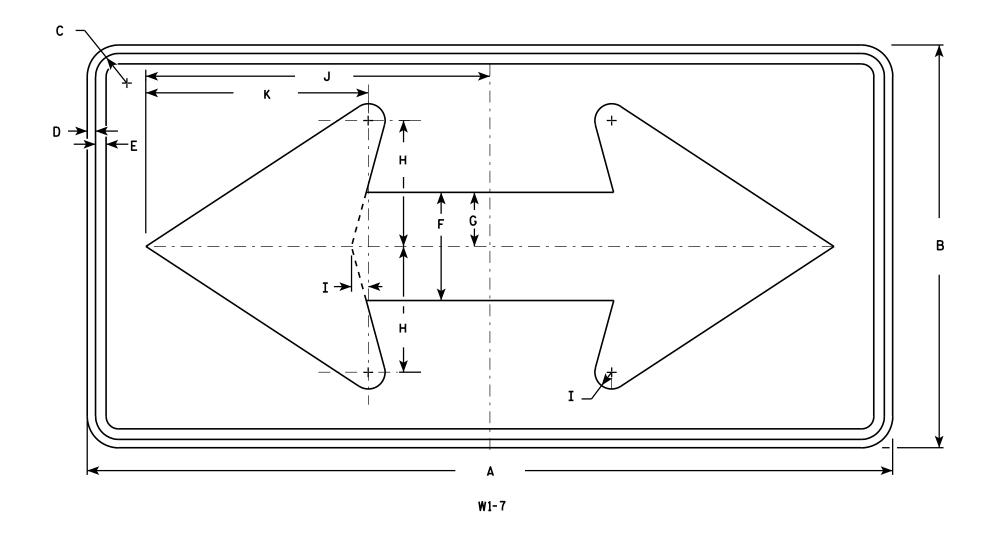
**←** H →

HWY:

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

Background - Yellow Message - Black

3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	Α	В	С	D	Е	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	<b>-</b>	٧	₩	Х	Y	Z	Areg sq. ft.
1	36	18	1 1/8	3⁄8	1/2	5	2 1/2	5 ¾	₹4	15 %	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 ¾	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

COUNTY:

STANDARD SIGN W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Raw

For State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W17.DGN

PROJECT NO:

HWY:

PLOT DATE: 07-JUN-2010 12:35

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE: 5.720679:1.000000

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

Background - Yellow Message - Black

3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

13 % 12 % 6.25 9.0

25 6 1/2 6 3/8 16 3/8 15 1/8 1 5/8 36 3/4 2M 6 3/8 36 1 % 6 1/2 16 3/8 15 1/8 9.0 3 8 5/8 8 1/2 21 1/8 | 20 1/8 48 2 1/4 16.0 4

COUNTY:

DATE 3/13/13 For State Traffic Engineer
PLATE NO. W11-12.4

SHEET NO:

STANDARD SIGN

W11 - 12

WISCONSIN DEPT OF TRANSPORTATION

PROJECT NO: FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W1112.DGN

1 3/8

1/2

5 3/8 5 1/4

HWY:

SIZE

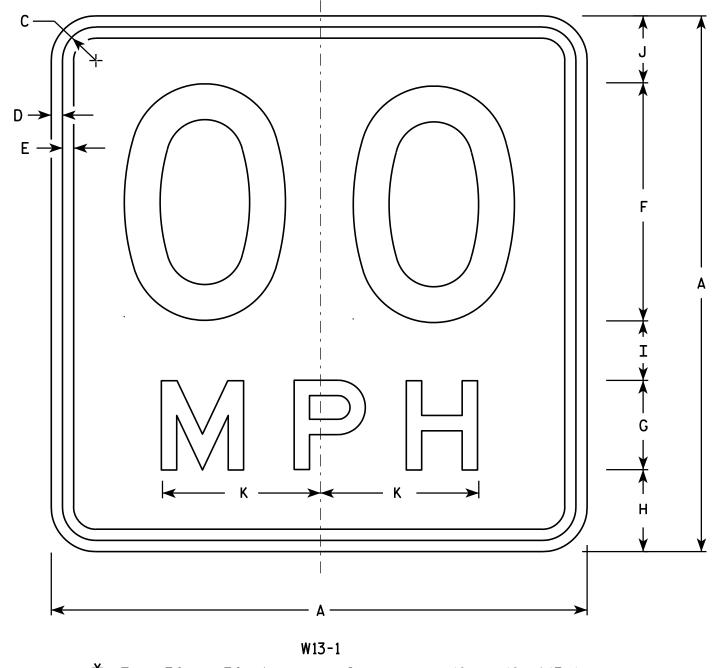
30

PLOT DATE: 13-MAR-2013 13:00

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 7.045894:1.000000



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

Background - Yellow Message - Black

- 3. Message Series See Note 6
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
- 6. Line 1 is Series D Line 2 is Series E

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

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

STANDARD SIGN W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew N

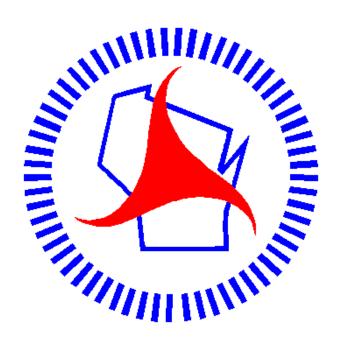
For State Traffic Engineer

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

SHEET NO:

PLOT BY: mscsja

PLOT NAME :



## Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov