DECEMBER 2021

Section No.

TOTAL SHEETS =

ORDER OF SHEETS

Typical Sections and Details

Estimate of Quantities

Plan and Profile

Cross Sections

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

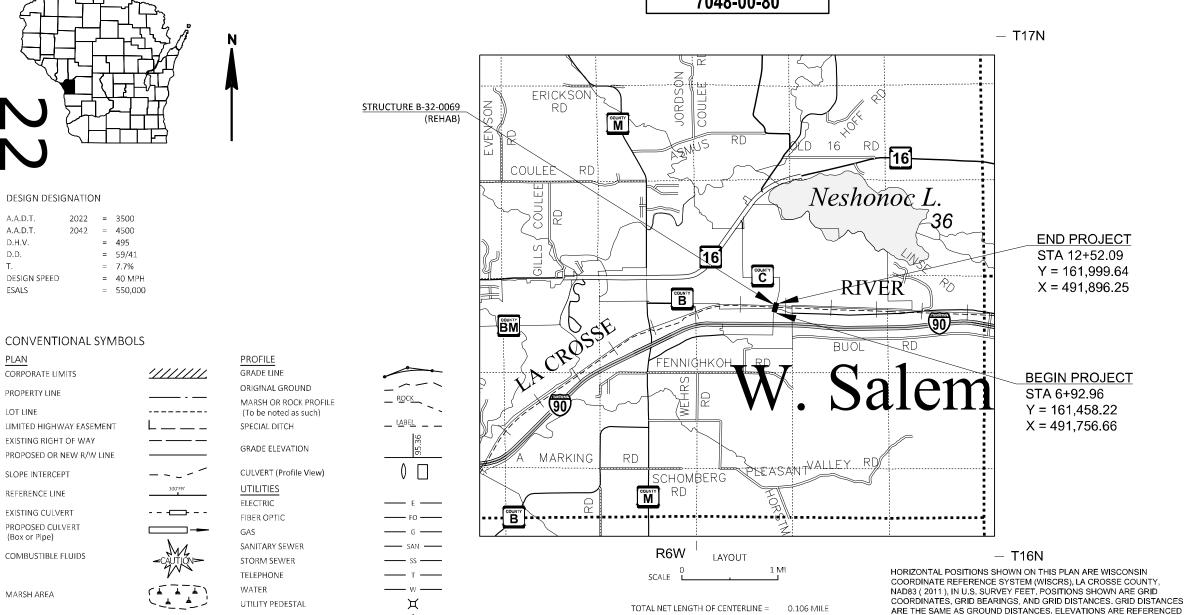
PLAN OF PROPOSED IMPROVEMENT

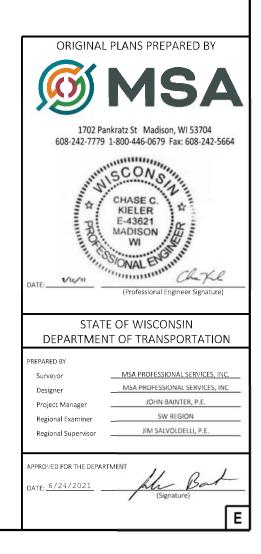
IH 90 TO STH 16

CTH B & CP RR BRIDGE B-32-69

CTH C LA CROSSE COUNTY

7048-00-80





FEDERAL PROJECT

PROJECT

WISC 2022082

CONTRACT

1

STATE PROJECT

7048-00-80

FILE NAME: G:\00\00093\00093548\CADD\SHEETSPLAN\010101-TI.DWG

WOODED OR SHRUB AREA

POWER POLE

TELEPHONE POLE

₫

Ø

PLOT DATE: 6/22/2021 2:05 PM

PLOT BY

KEVIN KLOCKZIEM

PLOT NAME :

TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 18

ASPHALTIC SURFACE WEIGHT CALCULATIONS ARE BASED ON 112 lb/sv/in.

APPLY TACK AT A RATE OF 0.05 gal/SY BETWEEN LAYERS OF ASPHALT.

THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT ASPHALT LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A TRAVEL LANE.

TYPICAL FINISHED SECTIONS SHOW THE GENERAL ROADWAY FEATURES THROUGHOUT THE PROJECT. PAVEMENT SLOPES, BORDER SLOPES, ETC., MAY VARY WITHIN THE STATION LIMITS OF EACH SECTION.

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

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

MON

MACNILIMAENIT

WEST

WESTBOUND

EAST GRID COORDINATE

NORTH GRID COORDINATE

WB

THE EROSION CONTROL ITEMS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER WILL DETERMINE THE EXACT LOCATIONS OF EROSION CONTROL ITEMS. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY. REMOVE ITEMS AT THE ENGINEERS DISCRETION.

PLACE EROSION CONTROL DEVICES IN SEQUENCE WITH CONSTRUCTION OPERATIONS AND MAINTAIN AS DETERMINED BY THE ENGINEER.

ADJUST NUMBER, LOCATION, AND SPACING OF TRAFFIC CONTROL SIGNS AND DEVICES, AS SHOWN ON THE PLANS TO FIT FIELD CONDITIONS.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE SEEDED AND COVERED WITH EROSION MAT AS SHOWN IN THE PLANS AND AS DIRECTED BY THE

RESTORE ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS, INCLUDING GRADING, SALVAGED TOP SOILING, SEEDING AND INSTALLING EROSION MAT.

EXISTING RIGHT OF WAY LINES ARE APPROXIMATE.

STANDARD ABBREVIATIONS

ACRES

LCP

МН

FILE NAME :

LONG CHORD BEARING

7048-00-80

LINEAR FEET

MANHOLE

LEFT

PROJECT NO:

AC	ACRES	MON	MONUMENT
AEW	APRON ENDWALL	N	NORTH
AGG	AGGREGATE	NB	NORTHBOUND
AH	AHEAD	N.C.	NORMAL CROWN
ALUM.	ALUMINUM	NO	NUMBER
A.P.	ACCESS POINT	PB	PULLBOX
ASPH	ASPHALT	PC	POINT OF CURVATURE
AVE	AVENUE	PI	POINT OF INTERSECTION
BAD	BASE AGGREGATE DENSE	PL	PROPERTY LINE
BK	BACK	PLE	PERMANENT LIMITED EASEMENT
BLK	BLOCK	POB	POINT OF BEGINNING
BOC	BACK OF CURB	PT	POINT OF TANGENCY
BOW	BACK OF SIDEWALK	R	RADIUS
BM	BENCHMARK	R	RANGE
CABC	CRUSHED AGGREGATE BASE COURSE	RCP	REINFORCED CONCRETE PIPE
CL or &	CENTERLINE	RD	ROAD
Δ	CENTRAL ANGLE or DELTA	REQ'D	REQUIRED
CMCP	CORRUGATED METAL CULVERT PIPE	RL or R/L	REFERENCE LINE
CONC	CONCRETE	RP ,	RADIUS POINT
CP	CONTROL POINT	RT	RIGHT
CPCS	CULVERT PIPE CORRUGATED STEEL	R/W	RIGHT OF WAY
CSM	CERTIFIED SURVEY MAP	S	SOUTH
CTH	COUNTY TRUNK HIGHWAY	SAN	SANITARY SEWER
D	DEGREE OF CURVATURE	SB	SOUTHBOUND
DES	DESIRABLE	S.E.	SUPERELEVATION
E	EAST	SEC	SECTION
EB	EASTBOUND	SSPRC	STORM SEWER PIPE REINFORCED
EBS	EXCAVATION BELOW SUBGRADE	551 110	CONCRETE
EOP	EDGE OF PAVEMENT	SSPRCHE	STORM SEWER PIPE REINFORCED
ET AL	AND OTHERS		CONCRETE HORIZONTAL ELLIPTICA
EW	ENDWALL	SQ	SQUARE
EXIST	EXISTING	ST	STREET
FT	FOOT	STA	STATION
FT2	SQUARE FEET	STD	STANDARD
GN	GRID NORTH	STH	STATE TRUNK HIGHWAY
GV	GAS VALVE	STM	STORM SEWER
HERCP	HORIZONTAL ELLIPTICAL REINFORCED	STR	STRUCTURE
	CONCRETE PIPE	T	TANGENT
HYD	HYDRANT	TAN	TANGENT
IN	INCH	TEMP	TEMPORARY
INL	INLET	TLF	TEMPORARY LIMITED EASEMENT
INV	INVERT	T or TN	TOWN
IP	IRON PIPE	TYP.	TYPICAL
L	LENGTH	WM	WATERMIN
L	LENGTH OF CURVE	WV	WATER VALVE
LC	LONG CHORD	* V V	**/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

DESIGN CONTACTS

WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHWEST REGION ATTN: JOHN BAINTER 3550 MORMON COULEE RD LA CROSSE, WI 54601 PHONE: (608) 785-9729 EMAIL: john.bainter@dot.wi.gov

MSA PROFESSIONAL SERVICES, INC. ATTN: CHASE KIELER 1702 PANKRATZ ST MADISON, WI 53704 PHONE: (608) 242-6641 E-MAIL: ckieler@msa-ps.com

INDEX OF SECTION 2 SHEETS

GENERAL NOTES PROJECT OVERVIEW TYPICAL SECTIONS **EROSION CONTROL** PERMANENT SIGNING AND PAVEMENT MARKING TRAFFIC CONTROL DETOUR AND ALTERNATE ROUTE

UTILITIES

LUKAS LACROSSE (PRIMARY CONTACT) CHARTER COMMUNICATIONS - COMMUNICATION LINE 2701 DANIELS ST MADISON, WI 53718 (608) 709-1562 LUKAS.LACROSSE@CHARTER.COM

BEN GRILLEY (PRIMARY CONTACT) LEMONWEIR VALLEY TELEPHONE COMPANY -COMMUNICATION LINE 127 US HWY 12 P.O. BOX 267 CAMP DOUGLAS, WI 54618 (608) 427-6515 BEN.GRILLEY@GETLYNXX.COM

VICKIE MORAN (PRIMARY CONTACT) ROGERS TELECOM - COMMUNICATION LINE 4804 N 40TH ST SHEBOYGAN, WI 53083 (920) 395-7125 VMORAN@GABES.COM

** SCOTT HALBRUCKER (PRIMARY CONTACT) VILLAGE OF WEST SALEM - WATER 900 WEST AVE NORTH WEST SALEM, WI 54669 (608) 786-2850 PUBLICWORKS@WESTSALEMWI.COM

WE ENERGIES UTILITY COORDINATOR (PRIMARY CONTACT) WE ENERGIES - GAS/PETROLEUM 500S 116TH ST WEST ALLIS, WI 53214 (414) 221-2738 WE-UTILITY-COORDINATOR@WE-ENERGIES.COM

CORISSA SEELY (PRIMARY CONTACT) XCEL ENERGY - COMMUNICATION LINE/ELECTRICITY/TRANSMISSION LINE 1414 W HAMILTON AVENUE P.O. BOX 8 EAU CLAIRE, WI 54702-0008 (715) 737-4097 CORISSA.E.SEELY@XCELENERGY.COM

** INDICATES NOT A MEMBER OF DIGGERS HOTLINE

Dial **311** or (800)242-8511 www.DiggersHotline.com

Ε

HWY: CTH C COUNTY: LA CROSSE **GENERAL NOTES** SHEET

G:\00\00093\00093548\CADD\SHEETSPLAN\020101-GN.DWG PLOT NAME PLOT DATE: 9/21/2021 8:39 AM PLOT BY: CHASE KIELER PLOT SCALE : 1 IN:100 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 020101-gn

DNR LIAISON

ATTN: KAREN KALVELAGE

DNR CENTRAL REGION HG

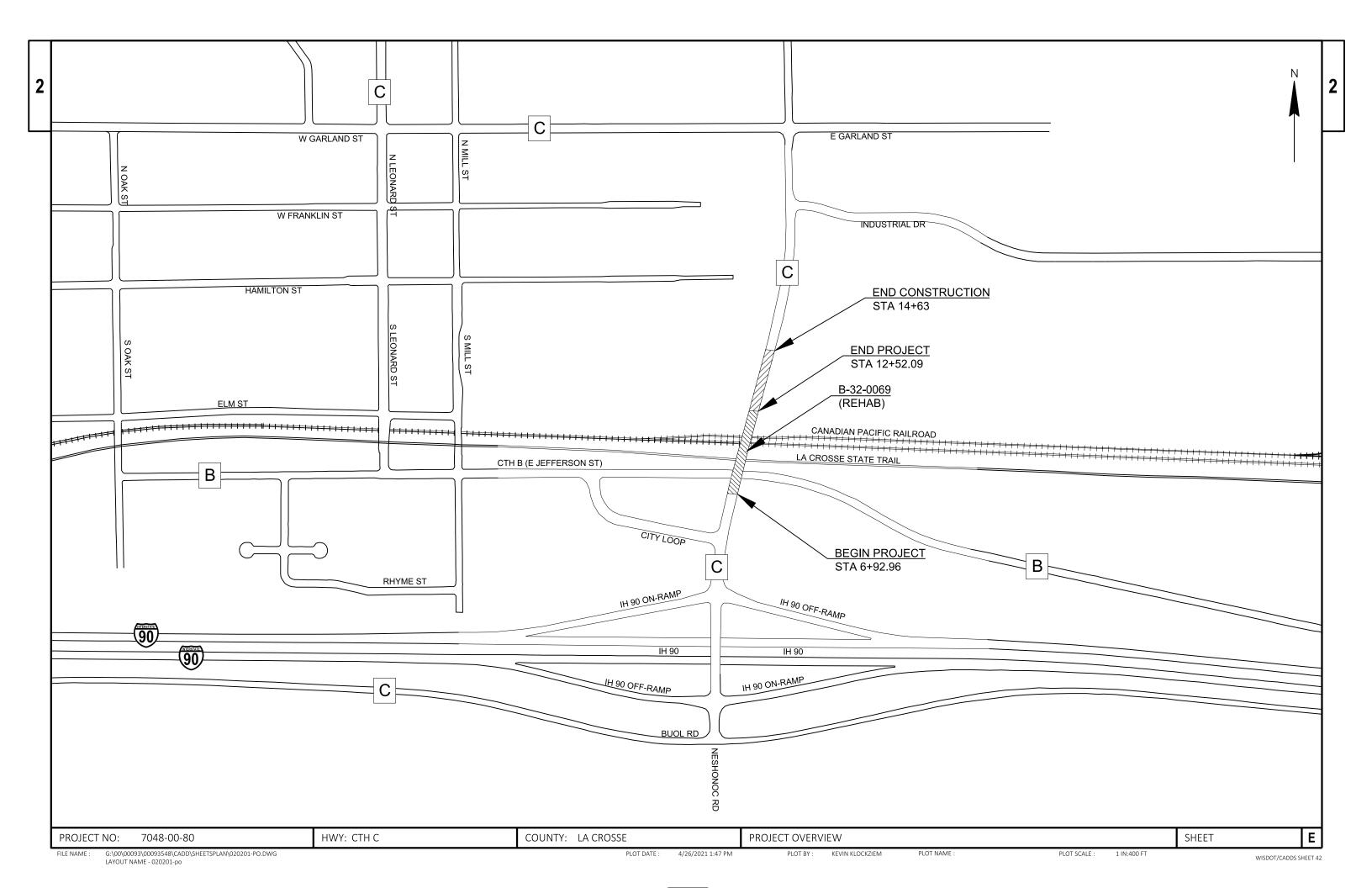
LA CROSSE, WI 54601

PHONE: (608) 785-9115

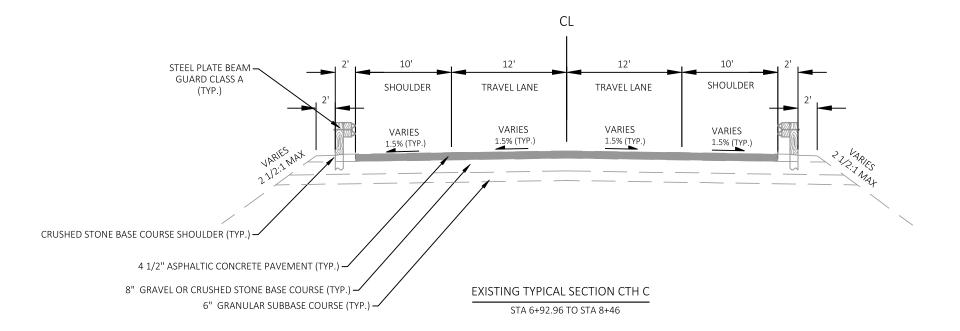
3550 MORMON COULEE RD

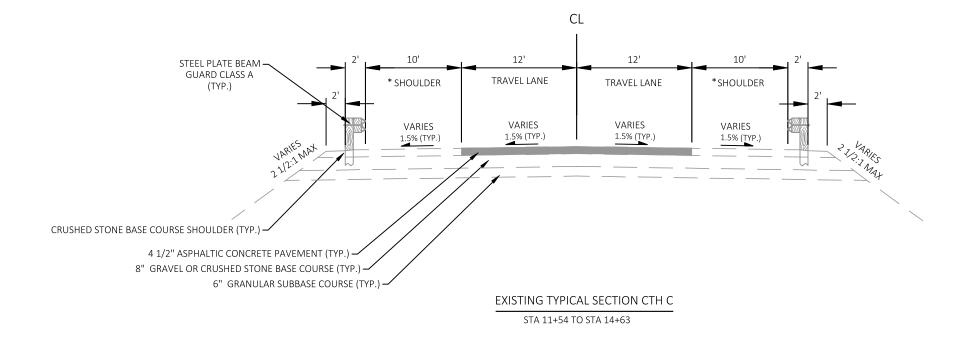
EMAIL: karen.kalvelage@wisconsin.gov

WISCONSIN DEPARTMENT OF NATURAL RESOURCES









* PAVED SHOULDER TAPERS FROM 10' - 0' FROM STA 11+54 TO 13+10

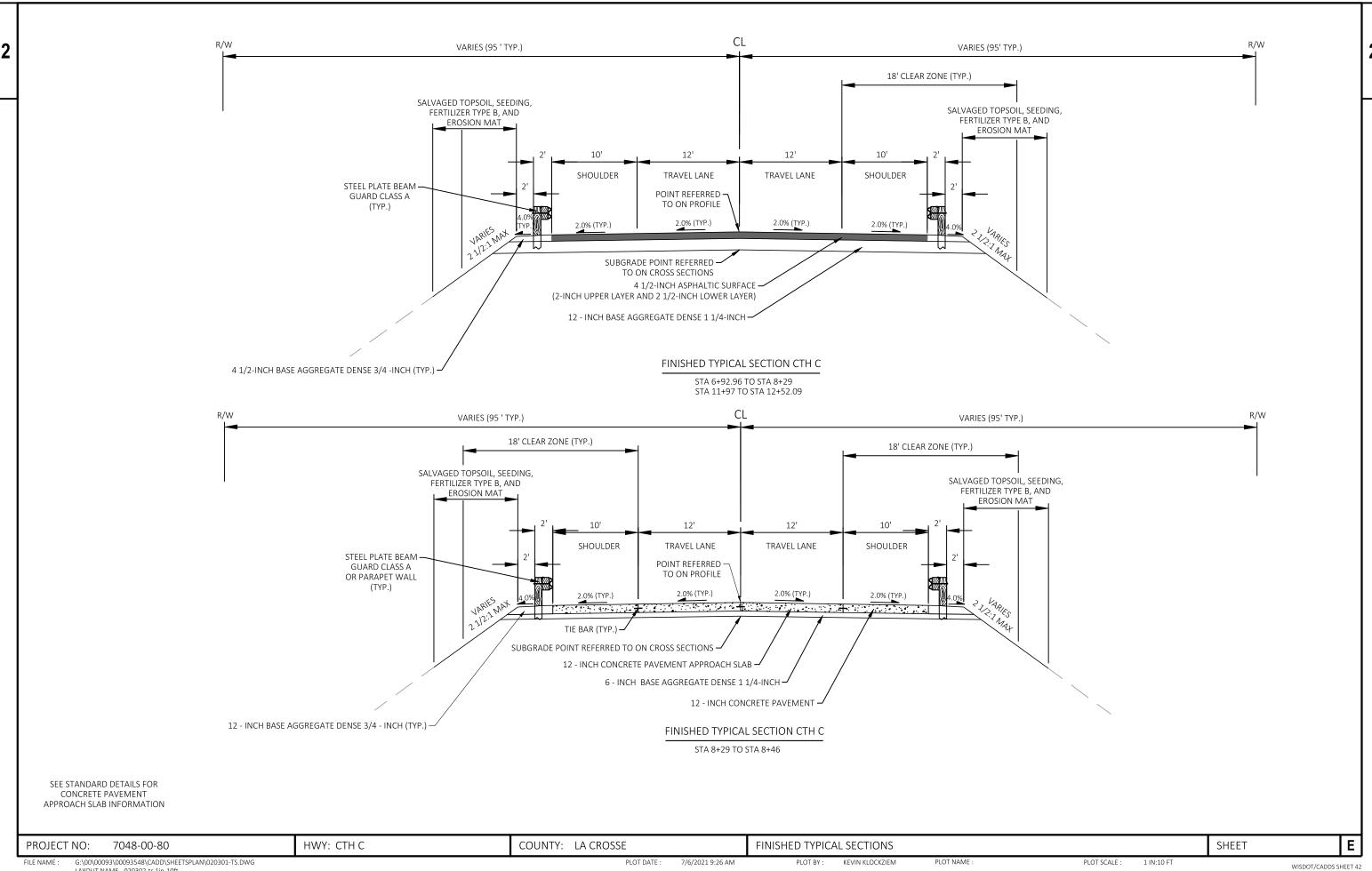
HWY: CTH C COUNTY: LA CROSSE SHEET Ε PROJECT NO: 7048-00-80 **EXISTING TYPICAL SECTIONS** PLOT BY: KEVIN KLOCKZIEM

PLOT DATE: 7/6/2021 9:26 AM

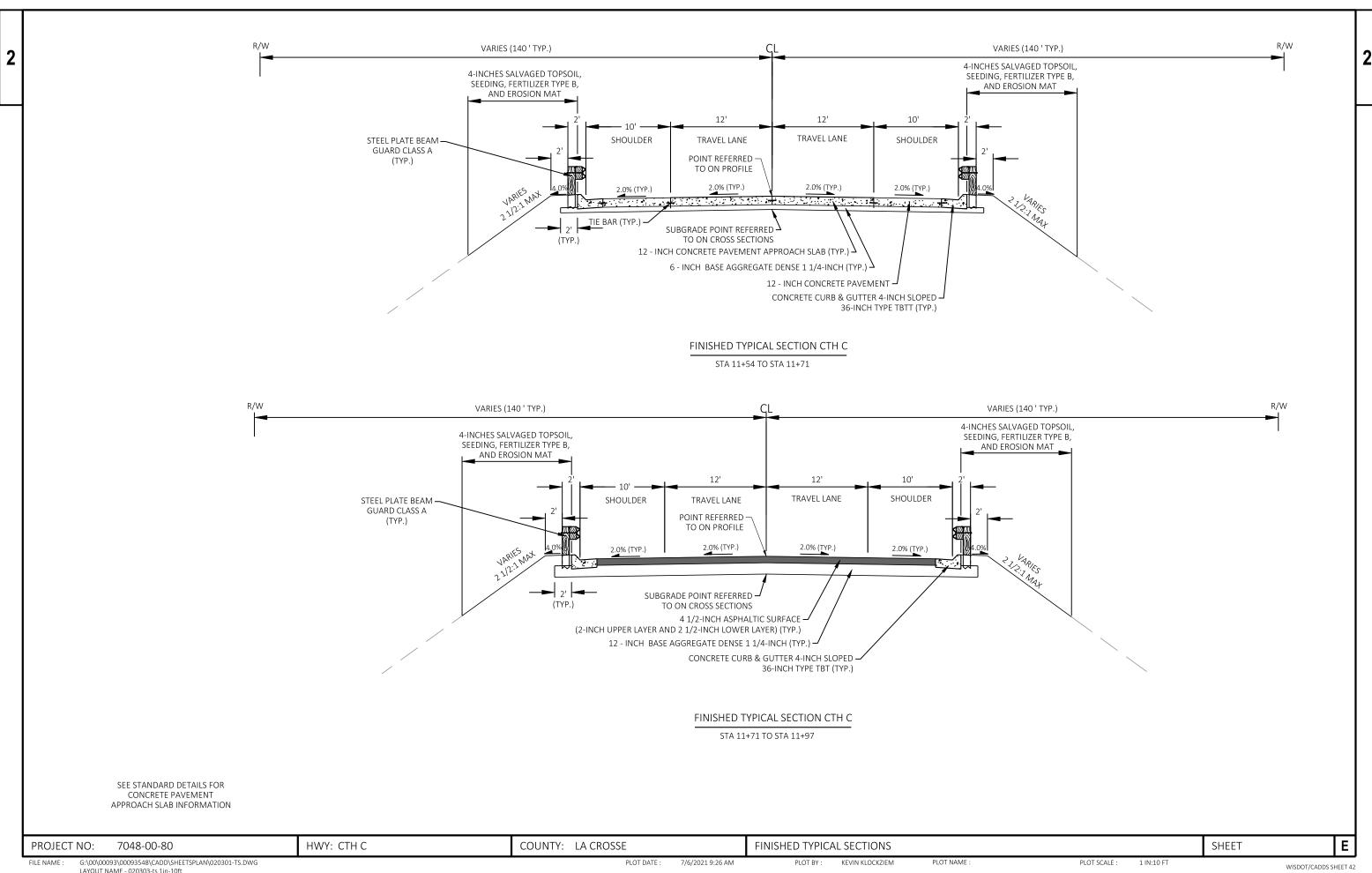
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PLOT SCALE : 1 IN:10 FT WISDOT/CADDS SHEET 42

PLOT NAME :

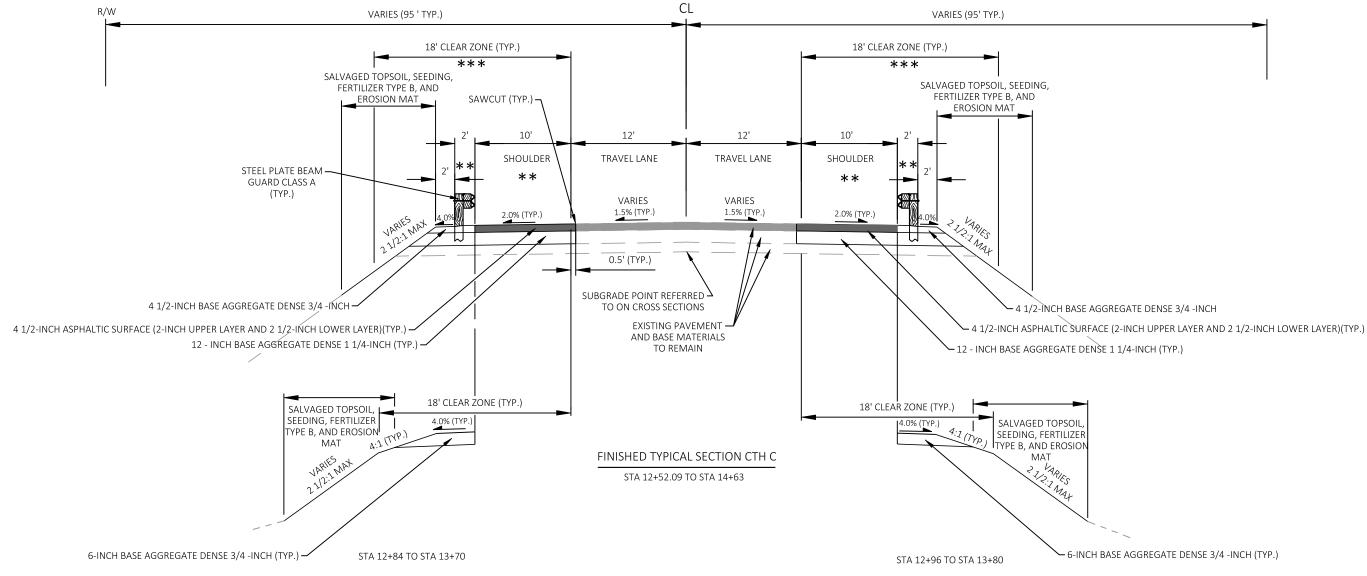


LAYOUT NAME - 020302-ts 1in-10ft



LAYOUT NAME - 020303-ts 1in-10ft





NOTES:

** SEE PLAN SHEETS FOR PAVED SHOULDER AND
BEAM GUARD LIMITS

*** CLEAR ZONE IS SHOWN FOR AREAS NORTH OF
THE BEAM GUARD END POINTS

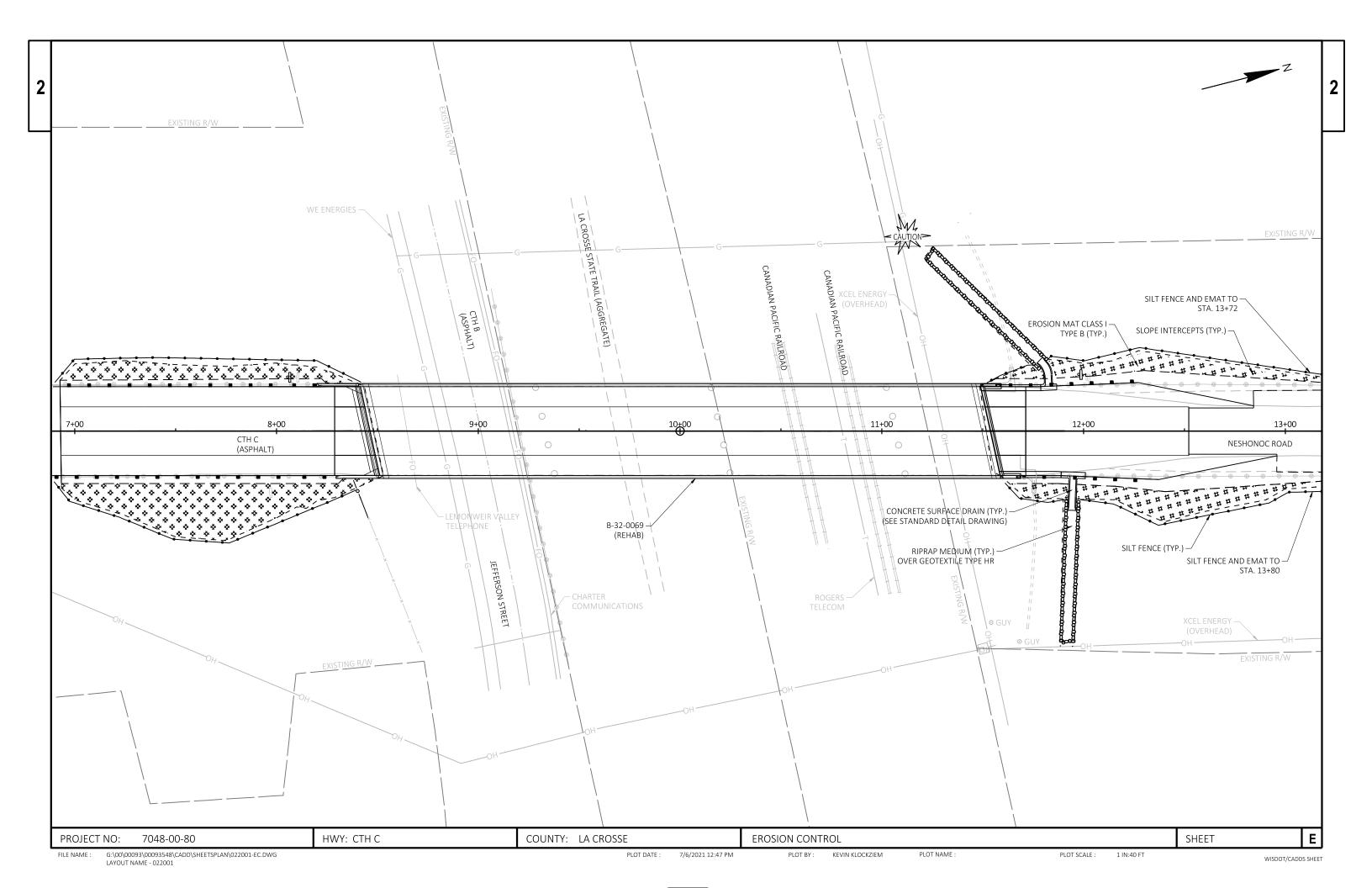
PROJECT NO: 7048-00-80 HWY: CTH C COUNTY: LA CROSSE FINISHED TYPICAL SECTIONS SHEET **E**

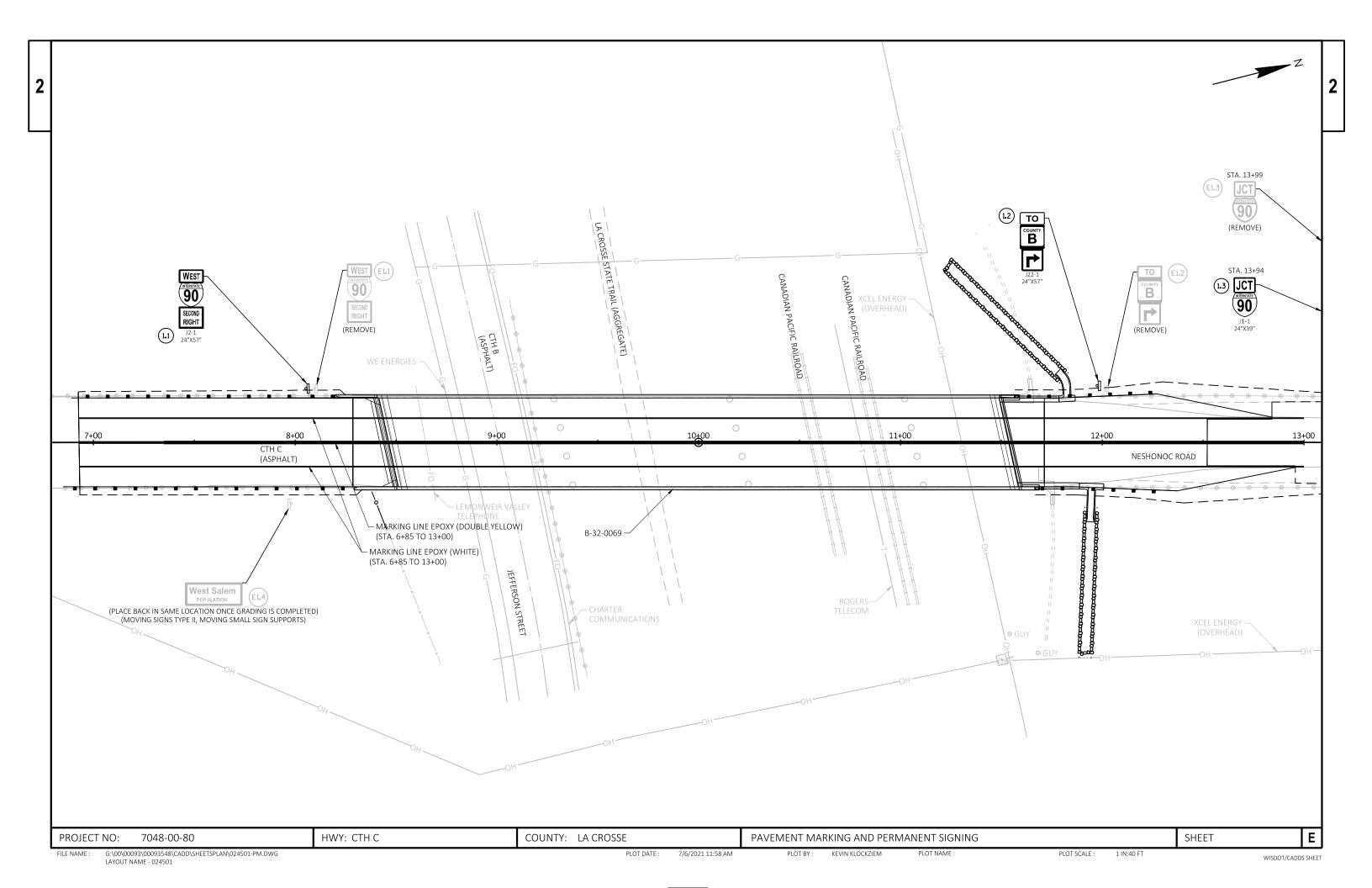
FILE NAME: G:\00\00093\00093548\CADD\SHEETSPLAN\020301-TS.DWG PLOT DATE: 7/6/2021 9:26 AM PLOT BY: KEVIN KLOCKZIEM PLOT NAME:

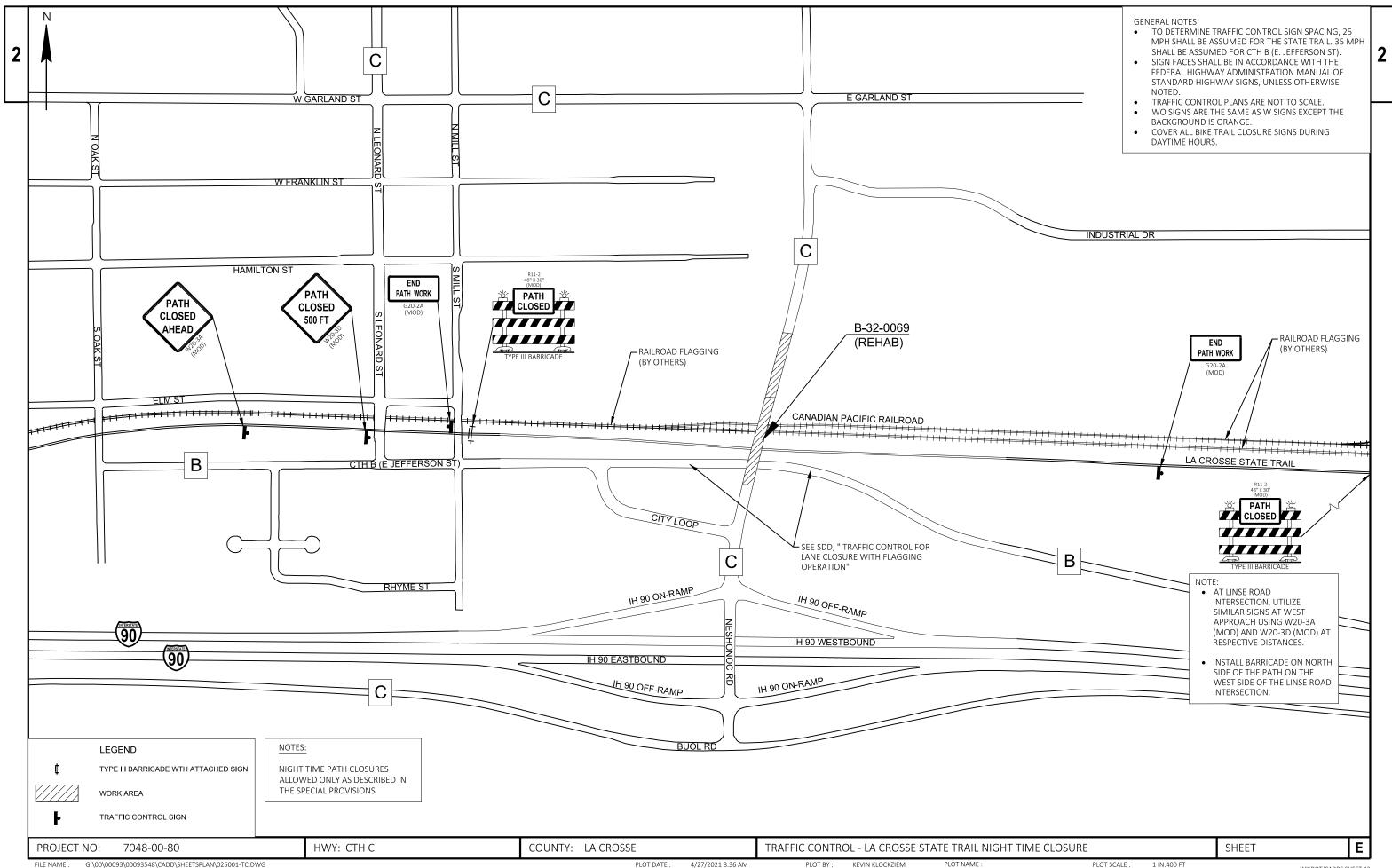
LAYOUT NAME - 020304-ts 1in-10ft

PLOT SCALE :

1 IN:10 FT







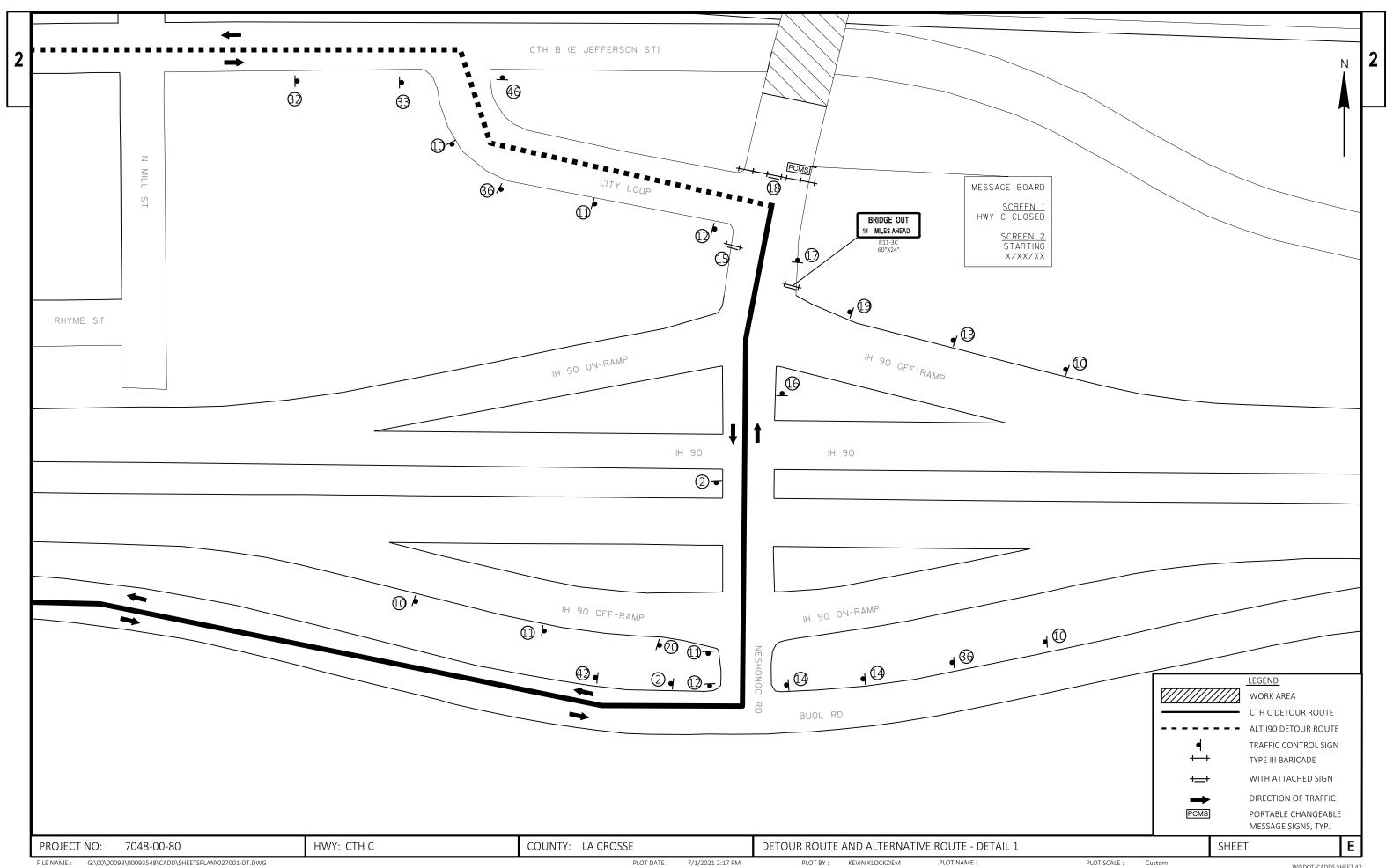
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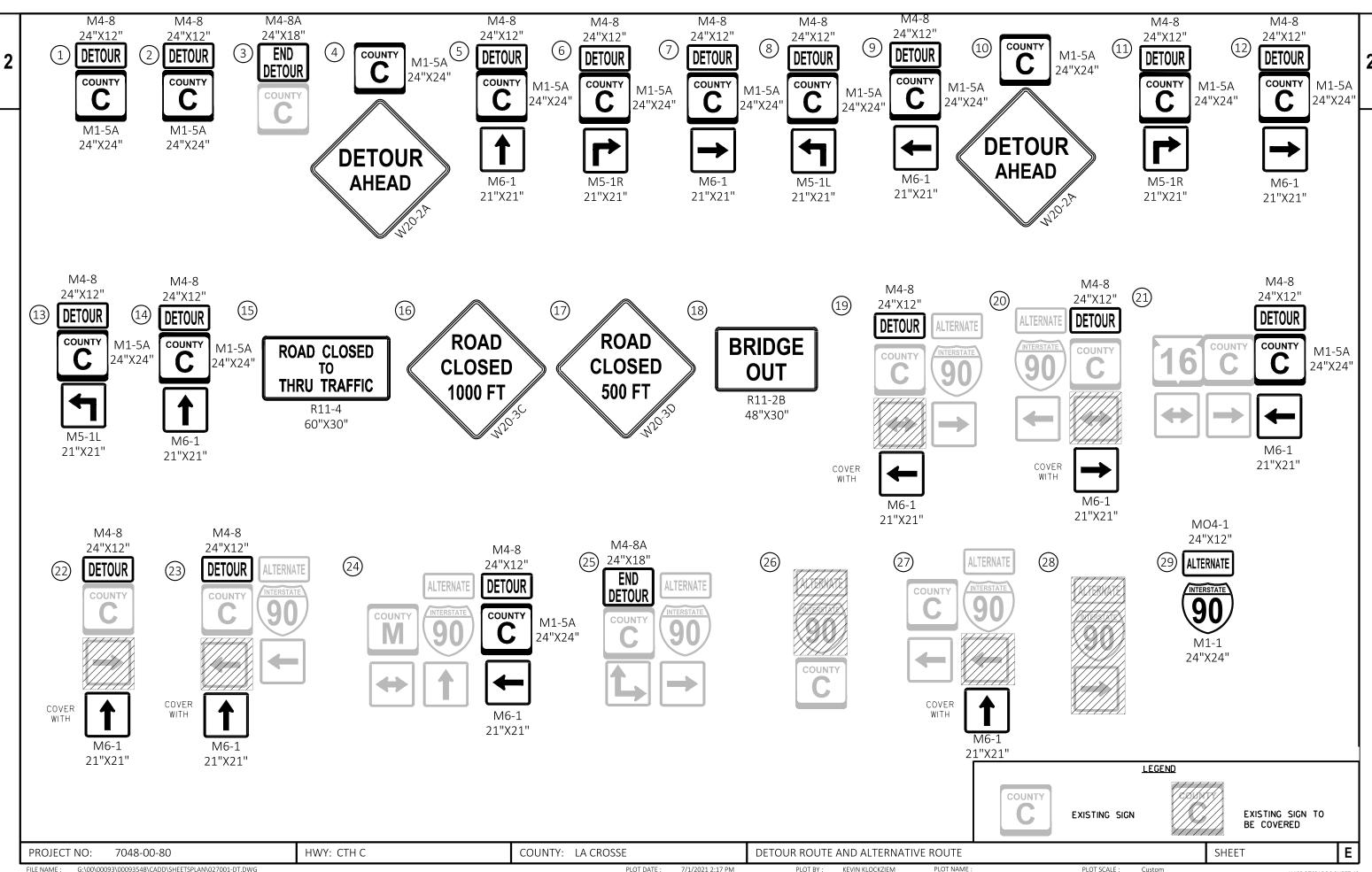
PLOT SCALE :

WISDOT/CADDS SHEET 42

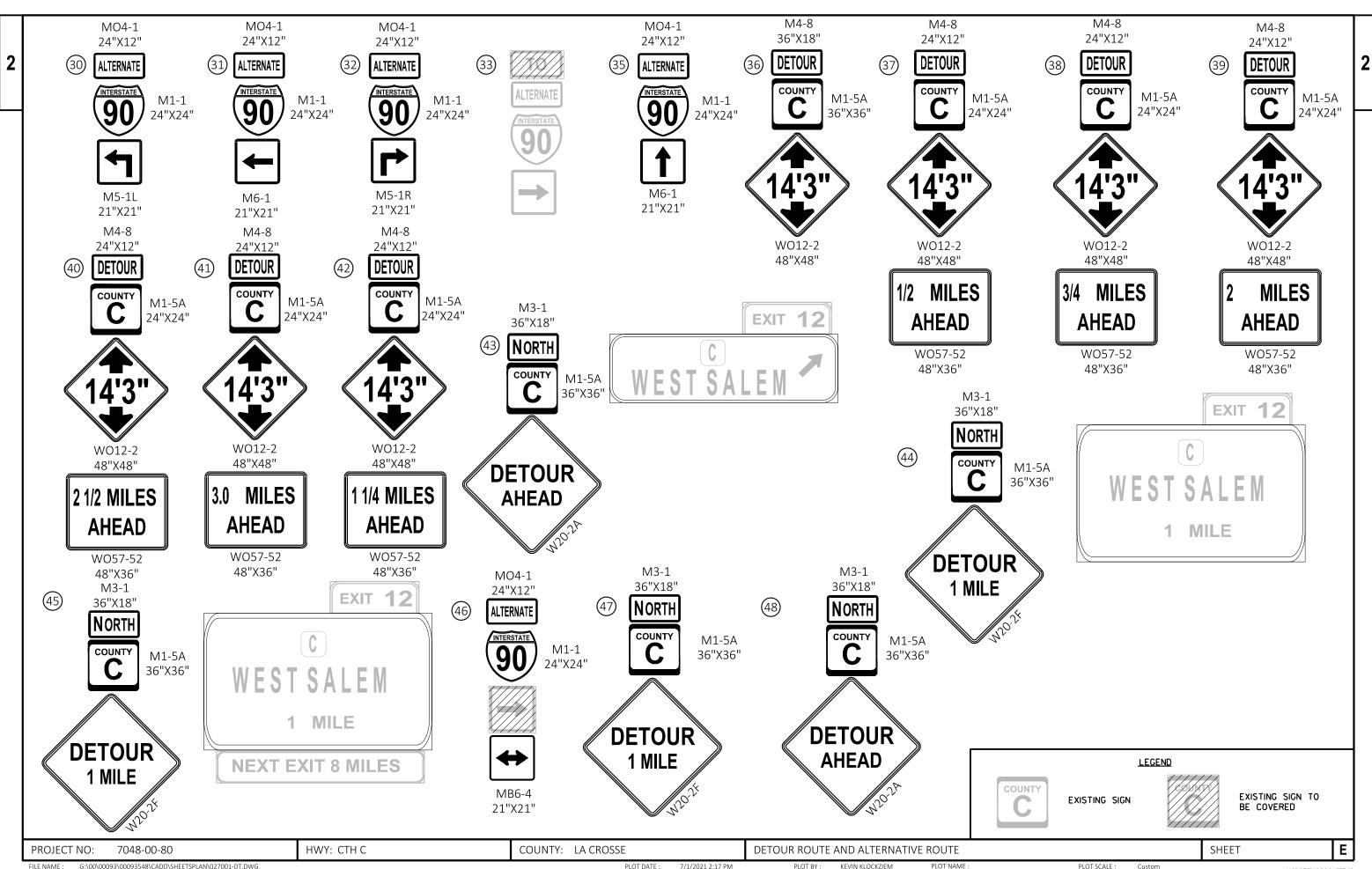
FILE NAME : G:\00\00093\00093548\CADD\\SHEETSPLAN\\027001-DT.DWG PLOT BY: KEVIN KLOCKZIEM PLOT NAME : PLOT SCALE : Custom LAYOUT NAME - 027001-dt

WISDOT/CADDS SHEET 42





: G;\00\00093\00093548\CADD\\SHEETSPLAN\027001-DT.DWG PLOT DATE : 7/1/2021 2:17 PM PLOT BY : KEVIN KLOCKZIEM PLOT NAME : PLOT SCALE : Custom WISDOT/CADDS SHEET 42



AE: G:\00\00093\00093\$48\CADD\SHEETSPLAN\027001-DT.DWG PLOT BY: KEVIN KLOCKZIEM PLOT NAME: PLOT NAME: Custom WISDOT/CADDS SHEET 42

3

					7048-00-80
Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	1.000	1.000
0004	201.0205	Grubbing	STA	1.000	1.000
0006	203.0100	Removing Small Pipe Culverts	EACH	2.000	2.000
8000	203.0211.S	Abatement of Asbestos Containing Material (structure) 01. B-32-69	EACH	1.000	1.000
0010	203.0220	Removing Structure (structure) 01. B-32-69	EACH	1.000	1.000
0012	203.0330	Debris Containment (structure) 01. B-32-69	EACH	1.000	1.000
0014	204.0165	Removing Guardrail	LF	866.000	866.000
0016	204.0170	Removing Fence	LF	20.000	20.000
0018	204.0190	Removing Surface Drains	EACH	2.000	2.000
0020	205.0100	Excavation Common	CY	855.000	855.000
0022	206.1000	Excavation for Structures Bridges (structure) 01. B-32-69	LS	1.000	1.000
0024	210.1500	Backfill Structure Type A	TON	158.000	158.000
0026	213.0100	Finishing Roadway (project) 01. 7048-00-80	EACH	1.000	1.000
0028	305.0110	Base Aggregate Dense 3/4-Inch	TON	120.000	120.000
0030	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,100.000	1,100.000
0032	311.0115	Breaker Run	CY	70.000	70.000
0034	415.0410	Concrete Pavement Approach Slab	SY	164.000	164.000
0036	416.1010	Concrete Surface Drains	CY	7.000	7.000
0038	455.0605	Tack Coat	GAL	55.000	55.000
0040	465.0105	Asphaltic Surface	TON	277.000	277.000
0042	502.0100	Concrete Masonry Bridges	CY	546.000	546.000
0044	502.3101	Expansion Device	LF	90.000	90.000
0046	502.3200	Protective Surface Treatment	SY	1,535.000	1,535.000
0048	502.3210	Pigmented Surface Sealer	SY	334.000	334.000
0050	502.4205	Adhesive Anchors No. 5 Bar	EACH	588.000	588.000
0052	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	136,290.000	136,290.000
0054	506.2610	Bearing Pads Elastomeric Laminated	EACH	14.000	14.000
0056	506.4000	Steel Diaphragms (structure) 01. B-32-69	EACH	42.000	42.000
0058	506.7050.S	Removing Bearings (structure) 01. B-32-69	EACH	14.000	14.000
0060	509.1500	Concrete Surface Repair	SF	89.000	89.000
0062	516.0500	Rubberized Membrane Waterproofing	SY	27.000	27.000
0064	601.0588	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT	LF	26.000	26.000
0066	601.0590	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBTT	LF	20.000	20.000
0068	606.0200	Riprap Medium	CY	54.000	54.000
0070	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	4.000
0072	614.0200	Steel Thrie Beam Structure Approach	LF	82.800	82.800
0074	614.0305	Steel Plate Beam Guard Class A	LF	237.500	237.500
0076	614.0370	Steel Plate Beam Guard Energy Absorbing Terminal	EACH	2.000	2.000
0078	616.0205	Fence Chain Link 5-FT	LF	20.000	20.000
0080	618.0100	Maintenance And Repair of Haul Roads (project) 01. 7048-00-80	EACH	1.000	1.000
0082	619.1000	Mobilization	EACH	1.000	1.000
0084	624.0100	Water	MGAL	17.000	17.000
0086	625.0500	Salvaged Topsoil	SY	750.000	750.000
0088	627.0200	Mulching	SY	50.000	50.000
0000	628.1504	Silt Fence	LF	820.000	820.000
0090	628.1520	Silt Fence Maintenance	LF	820.000	820.000
0092	628.1905	Mobilizations Erosion Control	EACH	6.000	6.000
0094	628.1910		EACH	3.000	3.000
0098	628.2004	Mobilizations Emergency Erosion Control Erosion Mat Class I Type B	SY	750.000	750.000
0090	020.2004	Erosion ivial Glass i Type D	31	130.000	7 30.000

					7048-00-80
Line	Item	Item Description	Unit	Total	Qty
0100	628.7560	Tracking Pads	EACH	2.000	2.000
0102	629.0210	Fertilizer Type B	CWT	0.500	0.500
0104	630.0120	Seeding Mixture No. 20	LB	20.000	20.000
0106	630.0200	Seeding Temporary	LB	20.000	20.000
0108	630.0500	Seed Water	MGAL	40.000	40.000
0110	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	1.000	1.000
0112	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	2.000	2.000
0114	637.2230	Signs Type II Reflective F	SF	25.500	25.500
0116	638.2102	Moving Signs Type II	EACH	1.000	1.000
0118	638.2602	Removing Signs Type II	EACH	3.000	3.000
0120	638.3000	Removing Small Sign Supports	EACH	3.000	3.000
0122	638.4000	Moving Small Sign Supports	EACH	1.000	1.000
0124	642.5001	Field Office Type B	EACH	1.000	1.000
0126	643.0420	Traffic Control Barricades Type III	DAY	2,448.000	2,448.000
0128	643.0705	Traffic Control Warning Lights Type A	DAY	3,920.000	3,920.000
0130	643.0900	Traffic Control Signs	DAY	29,718.000	29,718.000
0132	643.0920	Traffic Control Covering Signs Type II	EACH	19.000	19.000
0134	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0136	643.5000	Traffic Control	EACH	1.000	1.000
0138	645.0120	Geotextile Type HR	SY	156.000	156.000
0140	646.1020	Marking Line Epoxy 4-Inch	LF	2,460.000	2,460.000
0142	650.5000	Construction Staking Base	LF	463.000	463.000
0144	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	46.000	46.000
0146	650.6500	Construction Staking Structure Layout (structure) 01. B-32-69	LS	1.000	1.000
0148	650.7000	Construction Staking Concrete Pavement	LF	34.000	34.000
0150	650.9910	Construction Staking Supplemental Control (project) 01. 7048-00-80	LS	1.000	1.000
0152	650.9920	Construction Staking Slope Stakes	LF	466.000	466.000
0154	690.0150	Sawing Asphalt	LF	145.000	145.000
0156	715.0502	Incentive Strength Concrete Structures	DOL	3,276.000	3,276.000
0158	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	500.000	500.000
0160	801.0117	Railroad Flagging Reimbursement	DOL	24,000.000	24,000.000
0162	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 10+00	EACH	1.000	1.000
0164	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,000.000	1,000.000
0166	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	330.000	330.000
0168	SPV.0090	Special 01. Cleaning and Sealing Concrete Girders	LF	7.000	7.000

CLEARING & GRUBBING

			(201.0105)	(201.0205)
			CLEARING	GRUBBING
CATEGORY	STATION	TO STATION	STA	STA
0010	UNDIST	RIBUTED	1	1
	PROJEC	T TOTALS	1	1

REMOVING SMALL PIPE CULVERTS

				(203.0100)	PIPE LENGTH	PIPE DIAMETER	PIPE MATERIAL
	CATEGORY	STATION	LOCATION	EACH	FT	IN	
,	0010	11+64	LT	1	70	12	CMCP
		11+75	RT	1	68	12	CMCP
,		PROJECT TOTAL		2			

REMOVING GUARDRAIL

CATEGORY	STATION	TO STATION	LOCATION	(204.0165) LF
0010	6+89	8+22	LT	133
	6+85	8+31	RT	146
	11+57	14+48	LT	291
	11+67	14+63	RT	296
		PROJECT TOTAL		866

REMOVING SURFACE DRAINS

			(204.0190)
CATEGORY	STATION	LOCATION	EACH
0010	11+64	LT	1
	11+75	RT	1
	2		

FENCE

				(204.0170) REMOVING	(616.0205) FENCE CHAIN
				FENCE	LINK 5-FT
CATEGORY	STATION	TO STATION	LOCATION	LF	LF
0010	8+40	8+45	RT	20	20
	P	20	20		

CONCRETE PAVEMENT APPROACH SLAB

CATEGORY	STATION	TO STATION	LOCATION	(415.0410) SY
0010	8+29	8+46	LT & RT	86
	11+54	11+71	LT & RT	78
	164			

*THE PAY LIMITS FOR THE WIDTH OF THE CONCRETE APPROACH SLAB IS 24 FEET.

BASE COURSE

				DI TOL GOOT TOL			
				(305.0120) BASE AGGREGATE DENSE 1 1/4-INCH	(305.0110) BASE AGGREGATE DENSE 3/4-INCH	(311.0115) BREAKER RUN	(624.0100) WATER
CATEGORY	STATION	TO STATION	LOCATION	TON	TON	CY	MGAL
0010	6+92	8+29	LT & RT	543	28	-	8.0
	8+29	8+46	LT & RT	29	0	-	0.4
	11+54	11+71	LT & RT	29	0	-	0.4
	11+71	12+95	LT & RT	452	55	-	7.1
	12+90	13+79	LT & RT	0	26	-	0.4
		UNDISTRIBUTED		48	11	70	0.7
		PROJECT TOTAL	_S	1,100	120	70	17

NOTE: WATER TO BE USED FOR DUST CONTROL AND COMPACTION

PLOT BY: CHASE KIELER

ASPHALTIC SURFACE

CATEGORY	STATION	TO STATION	LOCATION	(455.0605) TACK COAT GAL	(465.0105) ASPHALTIC SURFACE TON
0010	6+92	8+29	LT & RT	33	167
	11+71	12+95	LT & RT	22	110
		PROJECT TOTAL	-S	55	277

CONCRETE CURB AND GUTTER

				(601.0588) 4-INCH SLOPED	(601.0590) 4-INCH SLOPED
				36-INCH TYPE TBT	36-INCH TYPE TBTT
CATEGORY	STATION	TO STATION	LOCATION	LF	LF
0010	11+56	11+79	LT	8	15
	11+66	11+89	RT	18	5
		PROJECT TOTALS	26	20	

PLOT NAME :

HWY: CTH C COUNTY: LA CROSSE MISCELLANEOUS QUANTITIES PROJECT NO: 7048-00-80

PLOT DATE: 12/27/2017 8:57 AM

SHEET

Ε

EARTHWORK PROJ	IECT I.D. 7048-00-80										
Division	From/To Station	Location	Common Excavation (1)	(item # 205.0100)	Salvaged/ Unusable Pavement Material (4)	Available Material (5)	Unexpanded Fill	Expanded Fill (6)	Mass Ordinate +/- (7)	Waste	Comment:
			Cut (2)	EBS Excavation (3)				Factor			
								1.25			
Project ID 7048-	-00-48				_						
1	6+92 - 8+46	CTH C - South Approach	423	0	95	329	21	26	302	302	
2	11+54 - 13+79	CTH C - North Approach	362	0	73	289	16	20	269	269	
	UNDISTRIBUT	ED EBS	0	70							
Grand Total			785	70	168	617	37	47	571	571	
			8	55			-	-	.		•

- 1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
- 2) Salvaged/Unsuable Pavement Material is included in Cut.
- 3) EBS Excavation to be backfilled with Breaker Run material.
- 4) Salvaged/Unusable Pavement Material
- 5) Available Material = Cut Salvaged/Unusuable Pavement Material
- 6) Expanded Fill. Factor = 1.25
- 7) The Mass Ordinate + or Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

						FINIS	HING ITEMS					
				(625.0500) SALVAGED TOPSOIL	(627.0200) MULCHING	(628.1504) SILT FENCE	(628.1520) SILT FENCE MAINTENANCE	(629.0210) FERTILIZER TYPE B	(630.0120) SEEDING MIXTURE NO. 20	(630.0500) SEED WATER	(630.0200) SEEDING TEMPORARY	(628.2004) EROSION MAT CLASS I TYPE B
CATEGORY	STATION	TO STATION	LOCATION	SY	SY	LF	LF	CWT	LB	MGAL	LB	SY
0010	6+92	8+46	LT & RT	390	-	323	323	0.26	11	23	11	390
	11+54	14+63	LT & RT	300	=	444	444	0.20	9	17	9	300
		UNDISTRIBUTE	ED	60	50	53	53	0.04	-	-	-	60
		PROJECT TOTA	ALS	750	50	820	820	0.50	20	40	20	750

(628.1910) MOBILIZATIONS
,
EMERGENCY
EROSION CONTROL
EACH
3

					PERMANEI	NT SIGNING					
				SIZE	(637.2230) SIGNS TYPE II REFLECTIVE F	(638.2102) MOVING SIGNS TYPE II	(638.4000) MOVING SMALL SIGN SUPPORTS	(638.2602) REMOVING SIGNS TYPE II	(638.3000) REMOVING SMALL SIGN SUPPORTS	(634.0614) POSTS WOOD 4X6-INCH X 14-FT	(634.0616) POSTS WOOD 4X6-INCH X 16-FT
CATEGORY	STATION	LOCATION	SIGN CODE	IN X IN	SF	EACH	EACH	EACH	EACH	EACH	EACH
0010	7+98	RT	WEST SALEM	-	-	1	1	-	-	-	-
	8+05	LT	J2-1	24 X 57	9.50	-	-	1	1	-	1
	11+98	LT	J22-1	24 X 57	9.50	-	-	1	1	-	1
	13+93	LT	J1-1	24 X 39	6.50	-	-	1	1	1	-
		PRO	JECT TOTALS		25.50	1	1	3	3	1	2

	<u>. </u>	<u>.</u>			
PROJECT NO: 7048-00-80	HWY: CTH C	COUNTY: LA CROSSE	MISCELLANEOUS QUANTITIES	SHEET	E
FILE NAME : P:\5900\$\5900\$\5908\05908012\CADD\C3D\\$HEETSOTHER\MQ AND EART	THWORK SHEETS.DWG	PLOT DATE : 12/27/2017 8:57 AM	PLOT BY: CHASE KIELER PLOT NAME:	WICCOT/CADS	DCCUEET 42

	RACKING PAD	S
CATEGORY	STATION	(628.7560) EACH
0010	6+92 12+52	1
PROJECT		2

	PROJEC	T TOTALS	7	54	156
	11+95	RT	4	24	71
0010	11+83	LT	3	30	84
CATEGORY	STATION	LOCATION	CY	CY	SY
			DRAINS		
			SURFACE	MEDIUM	TYPE HR
			CONCRETE	RIPRAP	GEOTEXTILE
			(416.1010)	(606.0200)	(645.0120)
		CONCRETE SU	RFACE DRAIN	IS	

			CONSTR	UCTION STAK	(ING		
			(650.9910.01) SUPPLEMENTAL	(650.5000) BASE	(650.5500) CURB GUTTER	(650.7000) CONCRETE	(650.9920) SLOPE
			CONTROL		AND CURB & GUTTER	PAVEMENT	STAKES
CATEGORY	STATION	TO STATION	LS	LF	LF	LF	LF
0010	6+92	8+46	-	154	-	17	157
	11+54	14+63	-	309	46	17	309
	PROJEC [*]	T 7048-00-80	1	-	-	-	-
	PROJEC	CT TOTALS	1	463	46	34	466

		DETOUR					
CATEGORY	LOCATION	SHEET SHOWN IN PLAN SET	DUF	RATION	SIGNS NO. DEVICES	* (643.0900) TRAFFIC CONTROL SIGNS DAY	* (643.0920) TRAFFIC CONTROL COVERING SIGNS TYPE II EACH
0010	WESTBOUND STH 16 AT JOSTAD COULEE RD	DETOUR ROUTE - OVERVIEW	122	DAYS	10	1,220	-
	EASTBOUND STH 16 AT JOSTAD COULEE RD	DETOUR ROUTE - OVERVIEW	122	DAYS	2	244	-
	WESTBOUND STH 16 AT CTH C	DETOUR ROUTE - OVERVIEW	122	DAYS	13	1,586	1
	EASTBOUND STH 16 AT CTH C	DETOUR ROUTE - OVERVIEW	122	DAYS	1	122	-
	SOUTHBOUND CTH C AT STH 16	DETOUR ROUTE - OVERVIEW	122	DAYS	1	122	-
	NORTHBOUND CTH C AT STH 16	DETOUR ROUTE - OVERVIEW	122	DAYS	5	610	1
	SOUTHBOUND CTH M AT FRANKLIN ST AND CTH B	DETOUR ROUTE - OVERVIEW	122	DAYS	6	732	-
	NORTHBOUND CTH M AT STH 16	DETOUR ROUTE - OVERVIEW	122	DAYS	6	732	-
	SOUTHBOUND CTH M AT CTH C (BOUL RD)	DETOUR ROUTE - OVERVIEW	122	DAYS	6	732	-
	NORTHBOUND CTH M AT CTH C (BOUL RD)	DETOUR ROUTE - OVERVIEW	122	DAYS	4	488	1
	WESTBOUND CTH C (BUOL RD) AT CTH M	DETOUR ROUTE - OVERVIEW	122	DAYS	9	1,098	-
	EASTBOUND CTH C AT CTH M (BUOL RD)	DETOUR ROUTE - OVERVIEW	122	DAYS	2	244	=
	EASTBOUND IH 90 AT CTH C OFF RAMP	DETOUR ROUTE - OVERVIEW	122	DAYS	18	2,196	-
	WESTBOUND IH 90 AT CTH C OFF RAMP	DETOUR ROUTE - OVERVIEW	122	DAYS	18	2,196	=
	SOUTHBOUND CTH C (N LEONARD ST) AT CTH C (GARLAND ST)	DETOUR ROUTE - OVERVIEW	122	DAYS	8	976	1
	NORTHBOUND CTH C (N LEONARD ST) AT CTH C (GARLAND ST)	DETOUR ROUTE - OVERVIEW	122	DAYS	2	244	=
	WESTBOUND CTH C (E GARLAND ST) AT CTH C (LEONARD ST)	DETOUR ROUTE - OVERVIEW	122	DAYS	6	732	-
	EASTBOUND W GARLAND ST AT CTH C (LEONARD ST)	DETOUR ROUTE - OVERVIEW	122	DAYS	13	1,586	=
	SOUTHBOUND N LEOHARD ST AT W FRANKLIN ST	DETOUR ROUTE - OVERVIEW	122	DAYS	3	366	=
	SOUTHBOUND S LEOHARD ST AT ELM ST	DETOUR ROUTE - OVERVIEW	122	DAYS	3	366	-
	SOUTHBOUND S LEOHARD ST AT CTH B (E JEFFERSON ST)	DETOUR ROUTE - OVERVIEW	122	DAYS	3	366	=
	WESTBOUND CTH B (E JEFFERSON ST) AT S MILL ST	DETOUR ROUTE - OVERVIEW	122	DAYS	3	366	-
	EASTBOUND CTH C (E GARLAND ST) AT CTH C (NESHONOC RD)	DETOUR ROUTE - OVERVIEW	122	DAYS	-	=	2
	WESTBOUND E GARLAND ST AT CTH C (NESHONOC RD)	DETOUR ROUTE - OVERVIEW	122	DAYS	12	1,464	=
	WESTBOUND E GARLAND ST AT N MARK ST	DETOUR ROUTE - OVERVIEW	122	DAYS	2	244	-
	SOUTHBOUND NESHONOC RD AT CTH C (E GARLAND ST)	DETOUR ROUTE - OVERVIEW	122	DAYS	12	1,464	-
	SOUTHBOUND CTH C (NESHONOC RD) AT INDUSTRIAL DR	DETOUR ROUTE - OVERVIEW	122	DAYS	4	488	1
	EASTBOUND CTH B (E JEFFERSON ST) AT CITY LOOP	DETOUR ROUTE - DETAIL 1	122	DAYS	4	488	1
	EASTBOUND CITY LOOP AT CTH C	DETOUR ROUTE - DETAIL 1	122	DAYS	11	1,342	-
	WESTBOUND CITY LOOP AT CTH B (E JEFFERSON ST)	DETOUR ROUTE - DETAIL 1	122	DAYS	3	366	1
	NORTHBOUND CTH C AT CITY LOOP	DETOUR ROUTE - DETAIL 1	122	DAYS	4	488	-
	WESTBOUND IH 90 AT CTH C OFF RAMP	DETOUR ROUTE - DETAIL 1	122	DAYS	7	854	1
	SOUTHBOUND CTH C (NESHONOC RD) AT CTH C (BUOL RD)	DETOUR ROUTE - DETAIL 1	122	DAYS	8	976	-
	WESTBOUND BOUL RD AT CTH C (NESHONOC RD)	DETOUR ROUTE - DETAIL 1	122	DAYS	11	1,342	-
	WESTBOUND CTH C (BUOL RD) AT CTH C (NESHONOC RD)	DETOUR ROUTE - DETAIL 1	122	DAYS	6	732	-
	EASTBOUND IH 90 OFF RAMP AT CTH C (NESHONOC RD)	DETOUR ROUTE - DETAIL 1	122	DAYS	7	854	1
	PROJECT TOTALS					28,426	11

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

NOTE: ROAD CLOSURE TRAFFIC CONTROL DEVICES SHOWN ON DETOUR PLAN ARE INCLUDED IN THE TRAFFIC CONTROL MISCELLANEOUS QUANTITY TABLE. NOTE: ONLY ONE CYCLE IS NEEDED FOR COVERING SIGNS.

PROJECT NO: 7048-00-80 HWY: CTH C SHEET COUNTY: LA CROSSE MISCELLANEOUS QUANTITIES PLOT DATE: 12/27/2017 8:57 AM

				GUARDRAIL		
				(614.0200) STEEL THRIE BEAM	(614.0305) STEEL PLATE BEAM	(614.0370) STEEL PLATE BEAM GUARD
				STRUCTURE APPROACH	GUARD CLASS A	ENERGY ABSORBING TERMINAL
CATEGORY	STATION	TO STATION	LOCATION	LF	LF	EACH
0010	6+89	8+22	LT	20.7	112.5	-
	6+85	8+31	RT	20.7	125	-
	11+57	12+27	LT	20.7	=	1
	11+67	12+37	RT	20.7	-	1
	P	ROJECT TOTAL	LS	82.8	237.5	2

TRAFFIC CONTROL SIGNS PCMS

			(643.1050)
CATEGORY	LOCATION	DESCRIPTION	DAY
0010	CTH C SOUTHBOUND, NORTH END OF PROJECT LIMITS	ADVANCE PROJECT NOTIFICATION	7
	CTH C NORTHBOUND, SOUTH END OF PROJECT LIMITS	ADVANCE PROJECT NOTIFICATION	7
		PROJECT TOTAL	14

TRAFFIC CONTROL

								*	*		
		(643.5000) TRAFFIC CONTROL	BARRICADES TYPE III	(643.0420) TRAFFIC CONTROL BARRICADES TYPE III	WARNING LIGHTS TYPE A	(643.0705) TRAFFIC CONTROL WARNING LIGHTS TYPE A	SIGNS	(643.0900) TRAFFIC CONTROL SIGNS	(643.0920) TRAFFIC CONTROL COVERING SIGNS TYPE II		
CATEGORY	DESCRIPTION	EACH	NO. DEVICES	DAY	NO. DEVICES	DAY	NO. DEVICES	DAY	EACH	DURA	ATION
0010	DETOUR	-	20	2,440	32	3,904	10	1,220	-	122	DAY
	CTH B / EAST JEFFERSON FLAGGING	-	-	-	-	-	10	40	-	4	DAY
	PATH CLOSURE	-	2	8	4	16	8	32	8	4	DAY
	PROJECT 7048-00-80	1	-	=	=	=	=	-	=	-	
	PROJECT TOTALS	1	22	2,448	36	3,920	28	1,292	8		
ADDITIONAL (QUANTITIES FOUND ELSEWHERE	•						•			

ADVANCE WARNING SIGNS (MAINLINE & SIDEROAD) - SEE S.D.D. "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" LANE CLOSURE WITH FLAGGING OPERATION - SEE S.D.D. "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION"

PAVEMENT MARKINGS

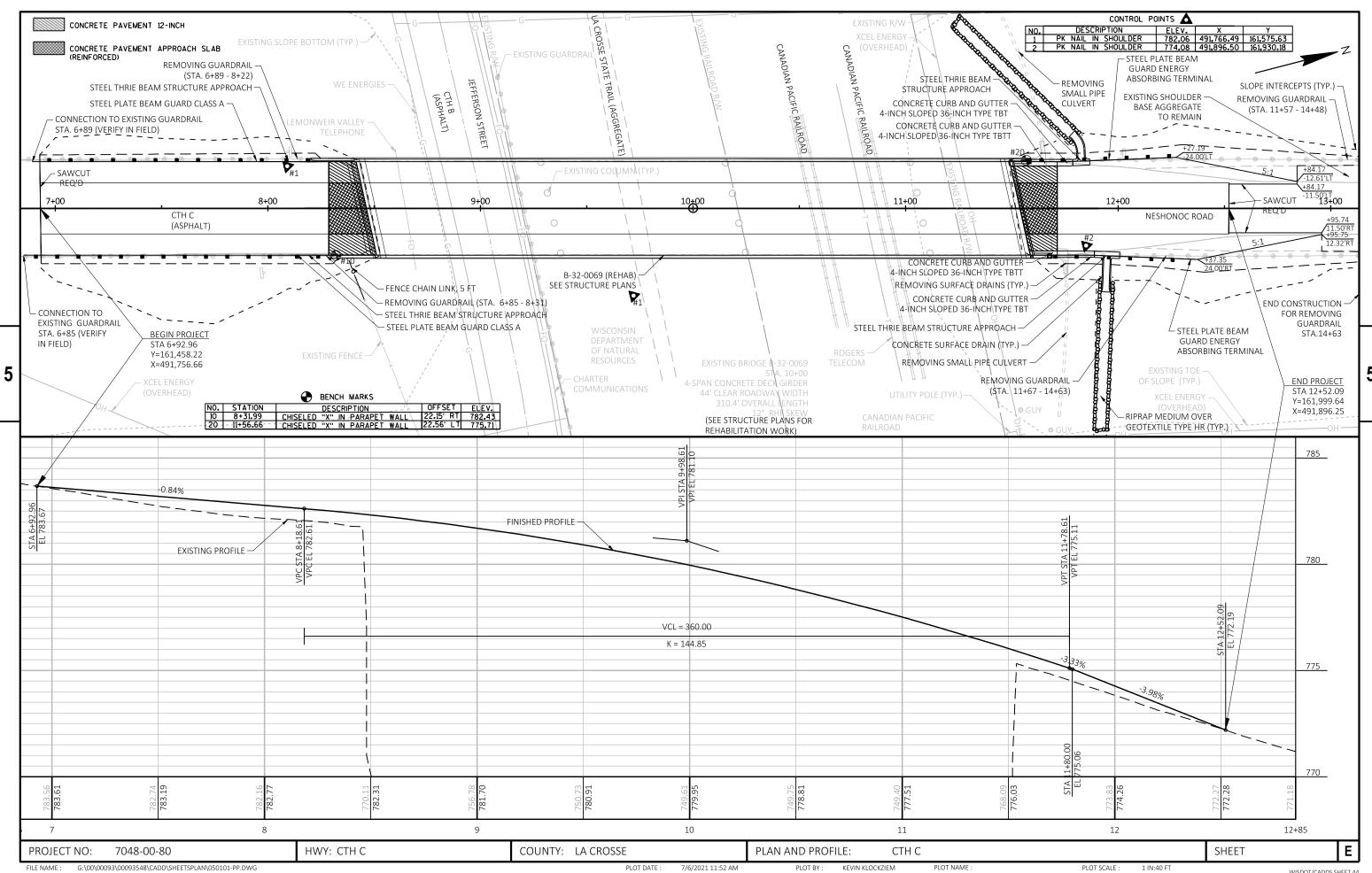
			(646.1020) MARKING LINE EPOXY 4-INCH	
CATEGORY	STATION	TO STATION	(WHITE)	
0010	6+85	13+00	1,230	1,230
PROJECT TOTAL		2,	460	

SAWING ASPHALT

CATEGORY STATION TO STATION LOCATION 0010 6+92 6+92 LT & RT 12+19 12+96 LT & RT	(690.0150) LF
12+19 12+96 LT & RT	44
PROJECT TOTAL	101 145

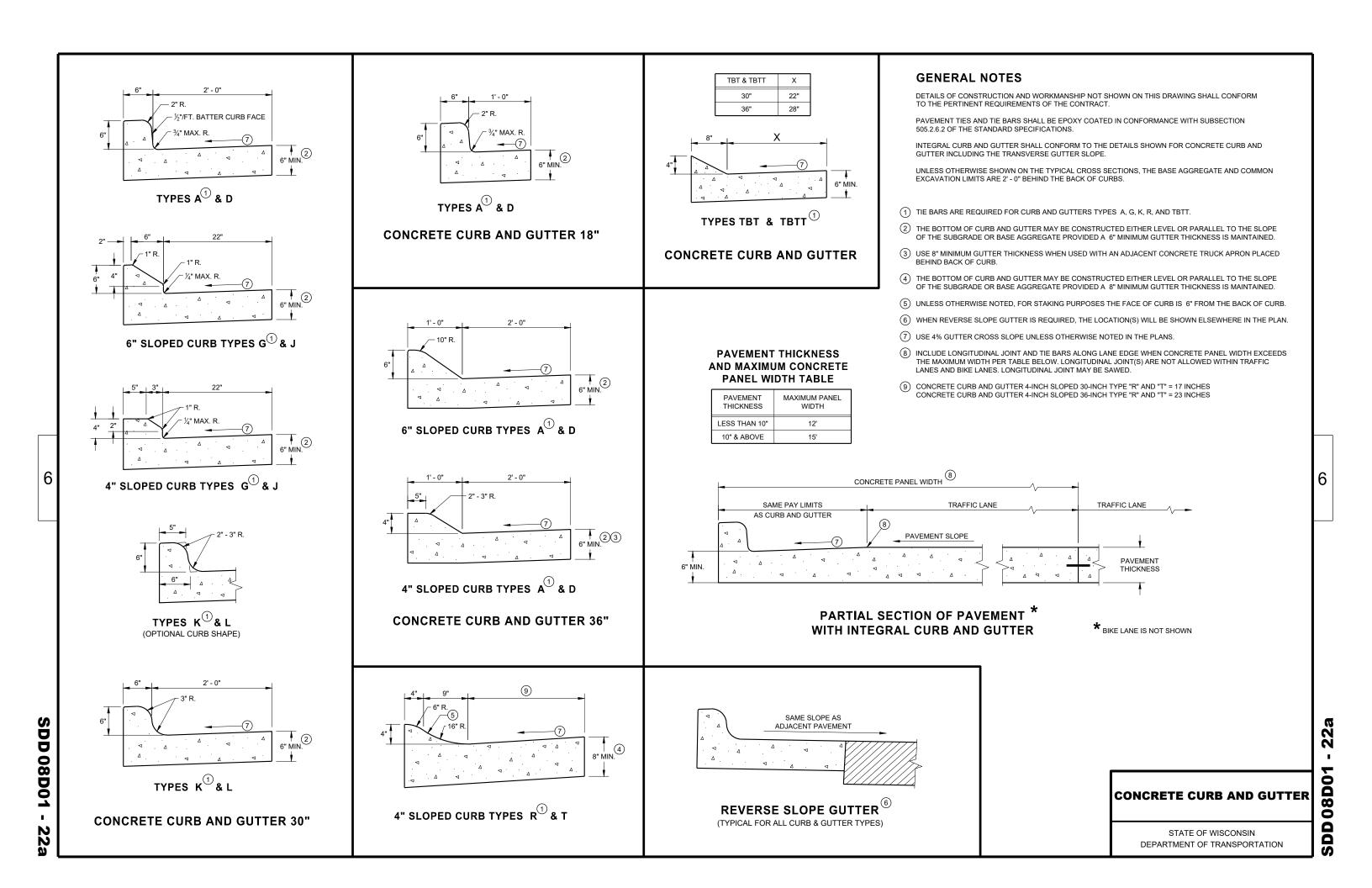
PROJECT NO: 7048-00-80 HWY: CTH C COUNTY: LA CROSSE MISCELLANEOUS QUANTITIES

SHEET



Standard Detail Drawing List

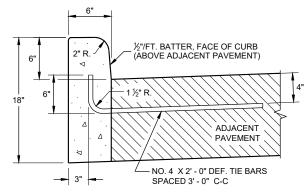
08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D02-07A	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-07B	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-07C	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08E09-06	SILT FENCE
08E14-01	TRACKING PAD
13A03-06	CONCRETE PAVEMENT SHOULDERS
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C19-03	HMA LONGITUDINAL JOINTS
14B15-11A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B18-06A	STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)
14B18-06B	STEEL PLATE BEAM GUARD, CLASS "A" AT MEDIAN APPROACH TO BRIDGES
14B20-11A	STEEL THRIE BEAM STRUCTURE APPROACH
14B20-11B	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SQUARE END PARAPETS
14B20-11C	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO VERTICAL FACED PARAPETS
14B20-11D	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SLOPED END PARAPETS
14B20-11E	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO BRIDGE RAILING TYPES "F" AND "W"
14B20-11F	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO BRIDGE RAILING TYPE "M"
14B20-11G	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTOR PLATE DETAIL
14B20-11H	STEEL THRIE BEAM STRUCTURE APPROACH, SINGLE SLOPE ATTACHMENT
14B24-09A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-09B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-09C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
15C02-08A	BARRI CADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRI CADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS



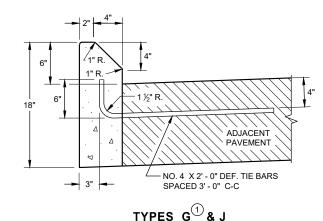
DEPRESS BELOW NORMAL FLOWLINE TO MATCH GRATE ELEVATION GRATE ELEVATION AS SHOWN ON STORM SEVER DETAILS CURB AND GUTTER TYPE A ANDREWS ANDREWS

DETAIL OF CURB AND GUTTER AT INLETS

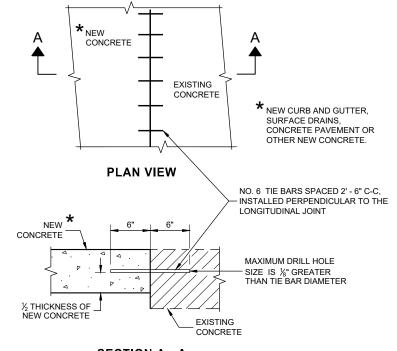
(TYPICAL H INLET COVER SHOWN)



TYPES A D



CONCRETE CURB



SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT

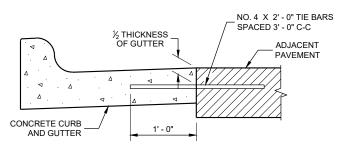
GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

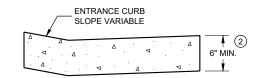
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'- 0" BEHIND THE BACK OF CURBS.

- 1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
- (2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- 9 REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION $^{\scriptsize{\scriptsize{\scriptsize{\scriptsize{\scriptsize{1}}}}}}$



DRIVEWAY ENTRANCE CURB (WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

 APPROVED
 /s/ Rodnery Taylor

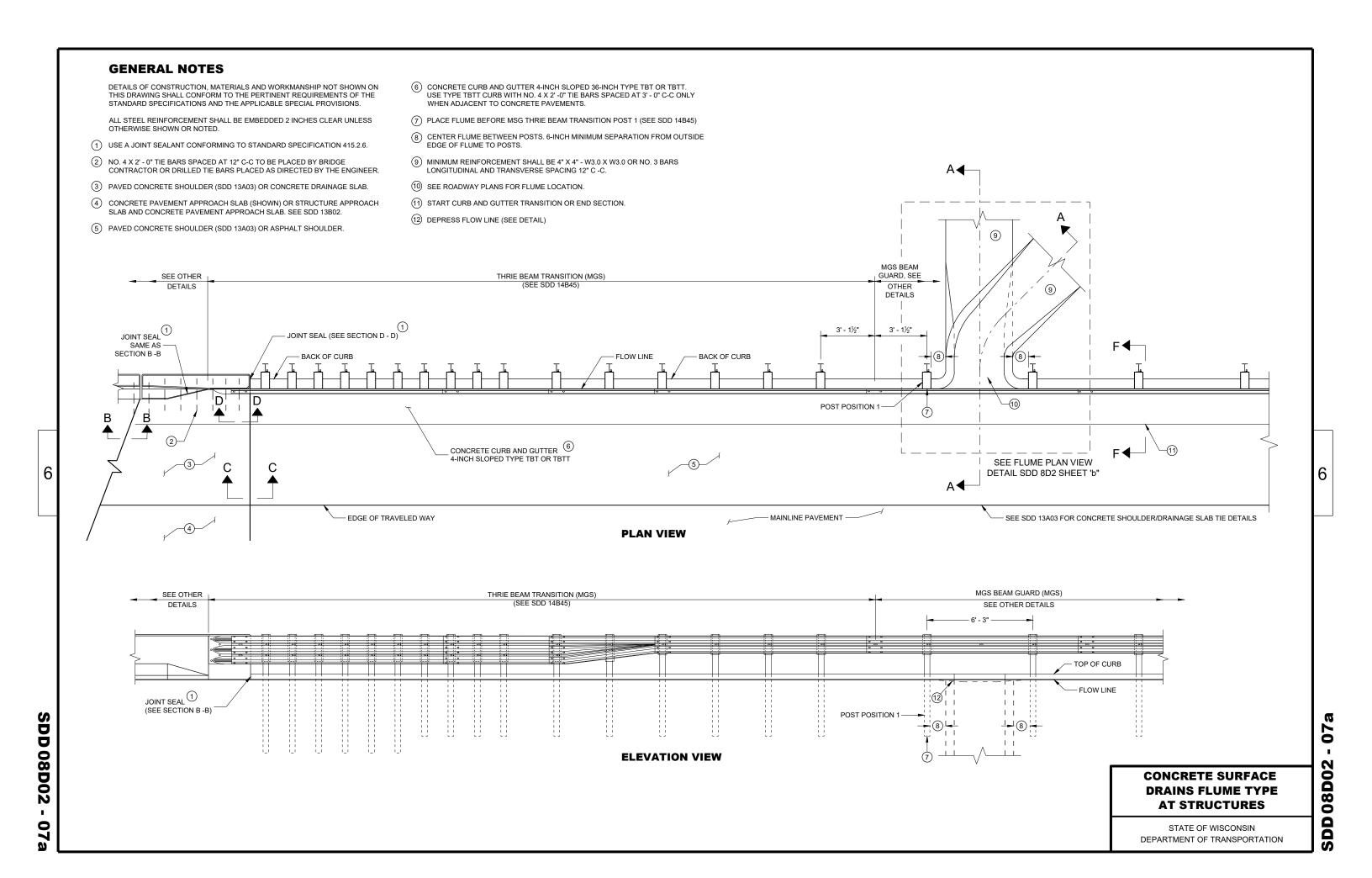
 February 2021
 /s/ Rodnery Taylor

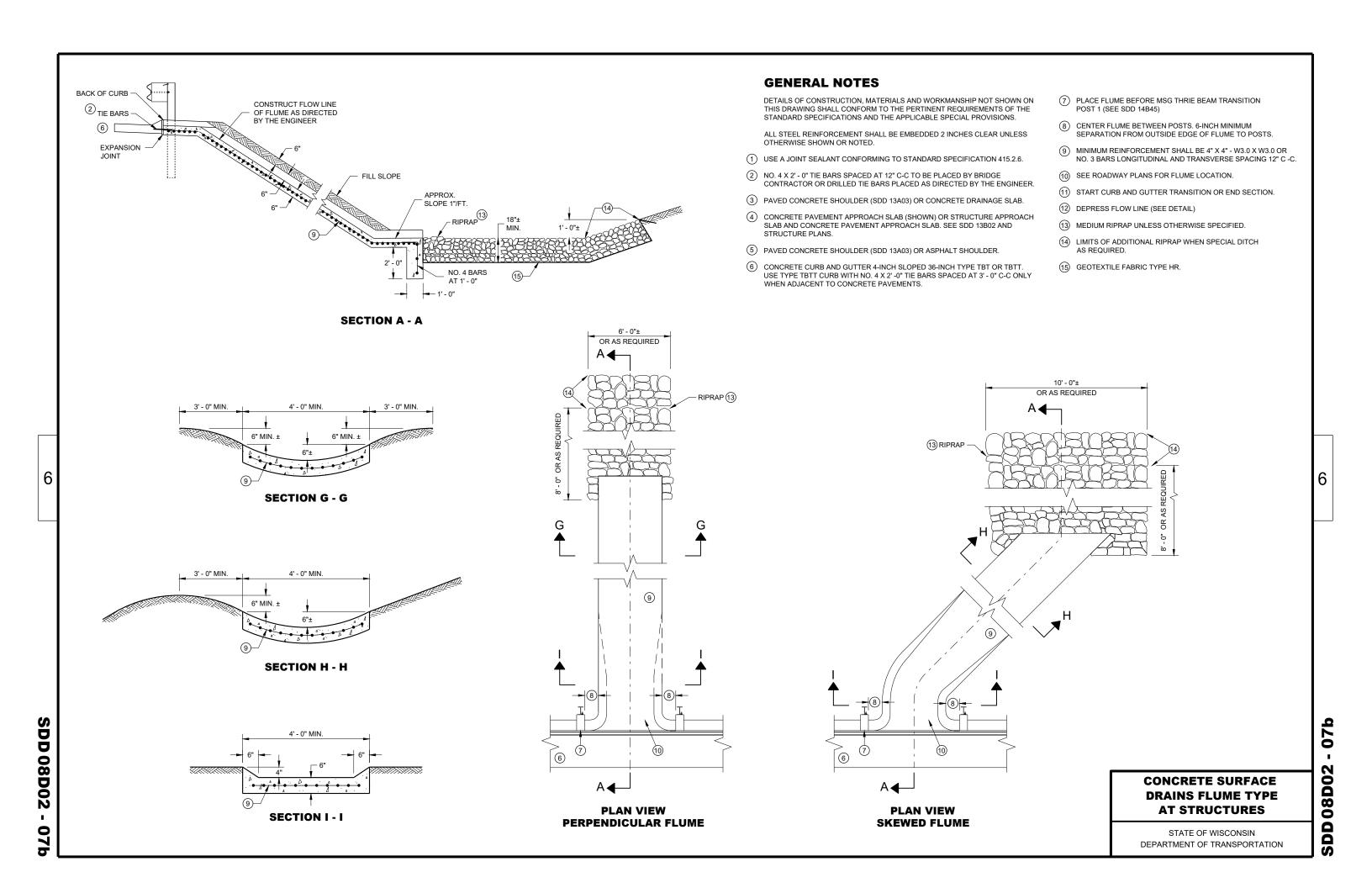
 DATE
 ROADWAY STANDARDS DEVELOPMENT

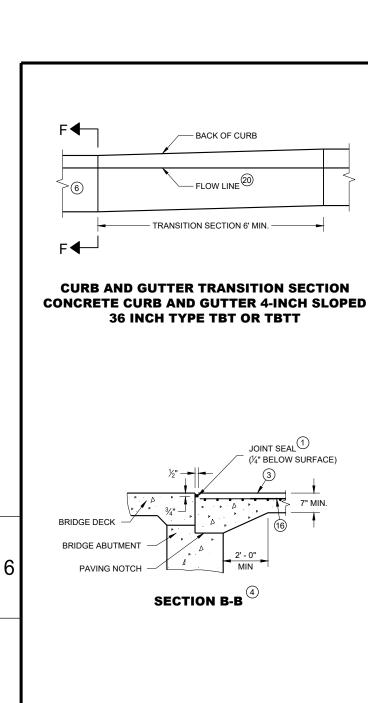
 EHWIA
 ENGINEER

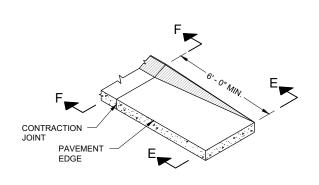
SDD 08D01 - 22I

SDD 08D01 - 22

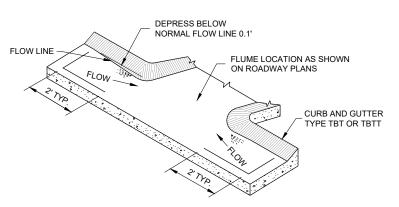




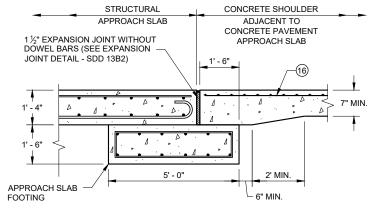




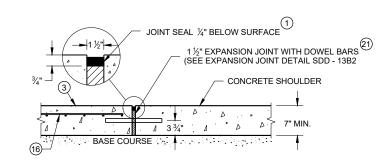
CURB AND GUTTER END SECTION CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT



CURB AND GUTTER FLOW LINE DEPRESSION AT FLUMES CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT



SECTION C - C JOINT DETAIL FOR BRIDGE WITH STRUCTURAL APPROACH SLAB AND CONCRETE APPROACH SLAB



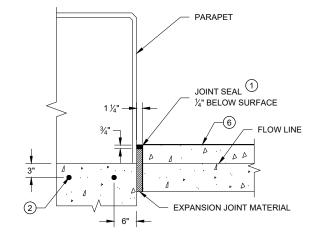
SECTION C - C JOINT DETAIL FOR BRIDGE APPROACH WITH CONCRETE SHOULDERS

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.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS

- (1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.
- (2) NO. 4 X 2' 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.
- (3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.
- (4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.
- (5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.
- (6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2'-0" TIE BARS SPACED AT 3'-0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.
- 7 PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)
- 8 CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.
- 9 MINIMUM REINFORCEMENT SHALL BE 4" X 4" W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.
- (10) SEE ROADWAY PLANS FOR FLUME LOCATION.
- (11) START CURB AND GUTTER TRANSITION OR END SECTION.
- (12) DEPRESS FLOW LINE (SEE DETAIL)
- (13) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.
- (14) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.
- (15) GEOTEXTILE FABRIC TYPE HR.
- (16) MINIMUM REINFORCEMENT SHALL BE 6" X 6" W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C - C.
- (7) MSG THRIE BEAM TRANSITION POST 1. SEE SDD 14B45 FOR ADDITIONAL CONSTRUCTION DETAILS AND ACCEPTABLE MATERIALS.
- (18) MAINTAIN WIDTH, THICKNESS AND CROSS SLOPE OF ADJACENT TYPE TBT OR TBTT CURB. SEE NOTE 6 FOR TIE BAR SPACING.
- (19) ALIGN FACE OF POST BLOCK WITH FLOW LINE.
- 20 MAINTAIN FLOW LINE AT EDGE OF PAVEMENT/FACE OF BEAM GUARD AS APPLICABLE.
- (21) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING HMA PAVEMENTS.

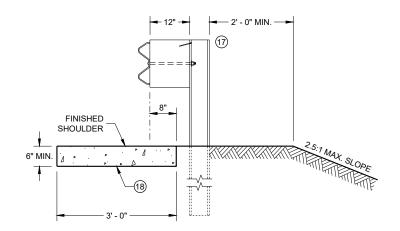


7" MIN.

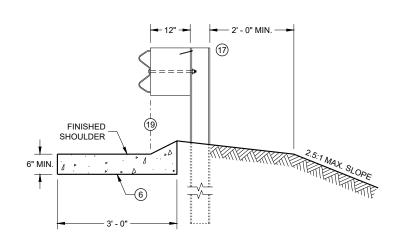
SECTION D - D

SDD 08D02

0



SECTION E - E



SECTION F - F

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

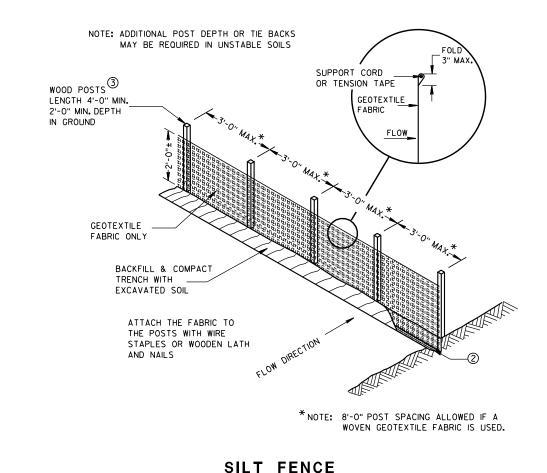
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

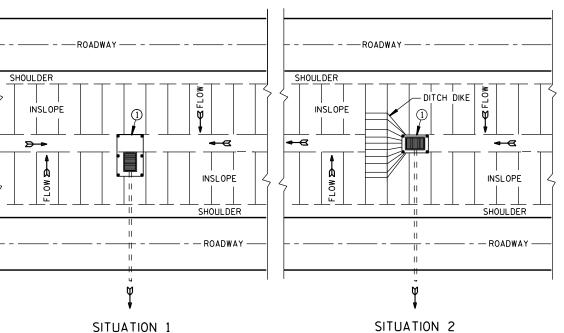
APPROVED February 2020 DATE

/S/ Rodney Taylor

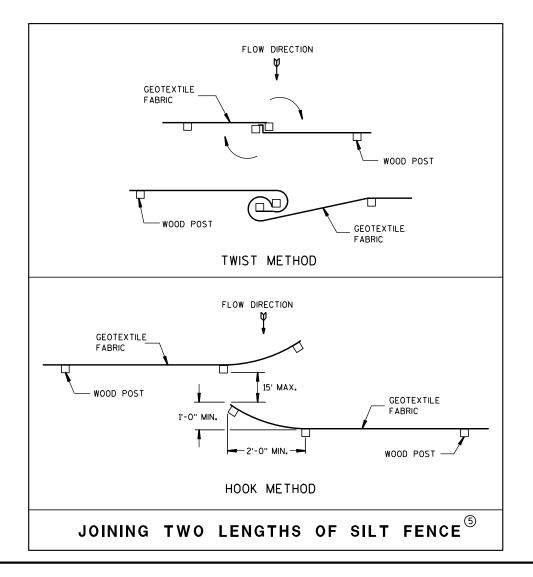
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

TYPICAL APPLICATION OF SILT FENCE





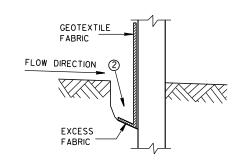
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



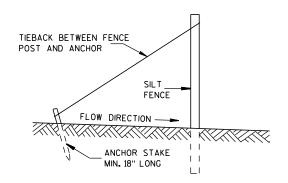
GENERAL NOTES

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



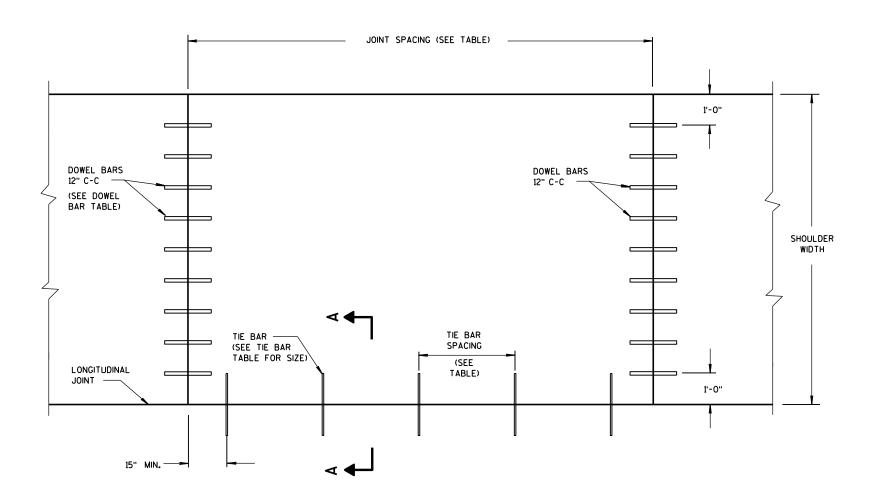
SILT FENCE TIE BACK (WHEN REQUIRED BY THE ENGINEER)

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

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PLAN VIEW CONCRETE PAVEMENT SHOULDER

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR Size	TIE BAR LENGTH (L)	MAX. TIE BAR Spacing
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
2 10 /2	NO. 4 *	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

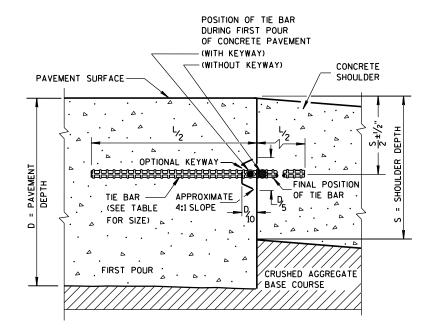
GENERAL NOTES

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.

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE STANDARD SPECIFICATIONS.

TIE BARS SHALL CONFORM TO SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.



SECTION A-A LONGITUDINAL CONSTRUCTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER***	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 1/2"	1"	14'
8", 8 1/2"	1 1/4"	15'
9", 9 1/2"	1 1/4"	15'
10" & ABOVE	1 1/2"	15'

FOR DOWELED CONCRETE SHOULDERS WITH TRAPEZOIDAL CROSS SECTIONS, CHOSE THE APPROPRIATE DOWEL BAR DIAMETER BASED ON THE SMALLER PAVEMENT DEPTH (LIKELY THE OUTSIDE EDGE OF THE SHOULDER). IF USING BASKETS, USE BASKETS FOR THE AVERAGE THICKNESS OF THE CROSS SECTION.

CONCRETE	PAVEMENT	SHOULDERS	9-
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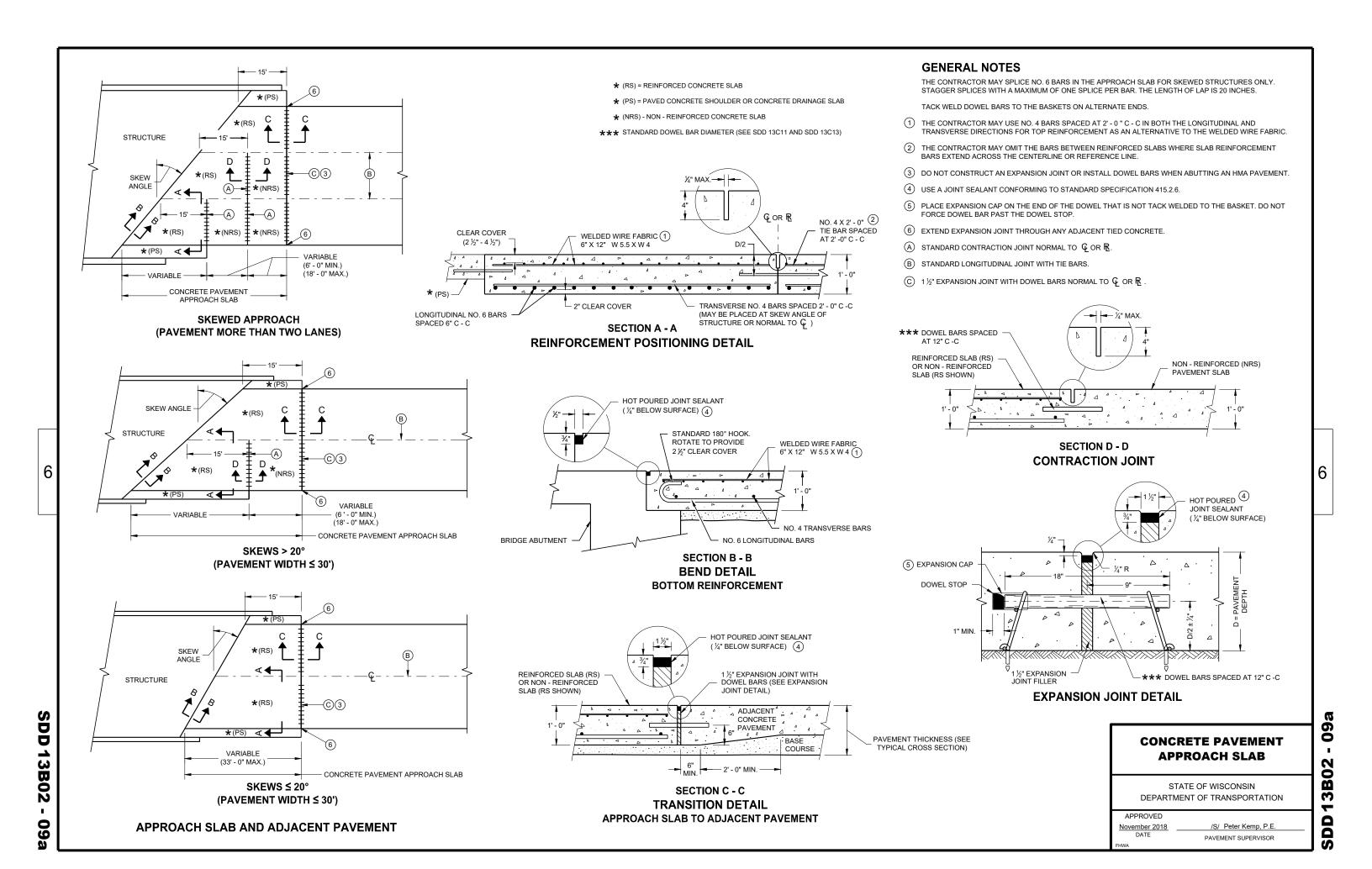
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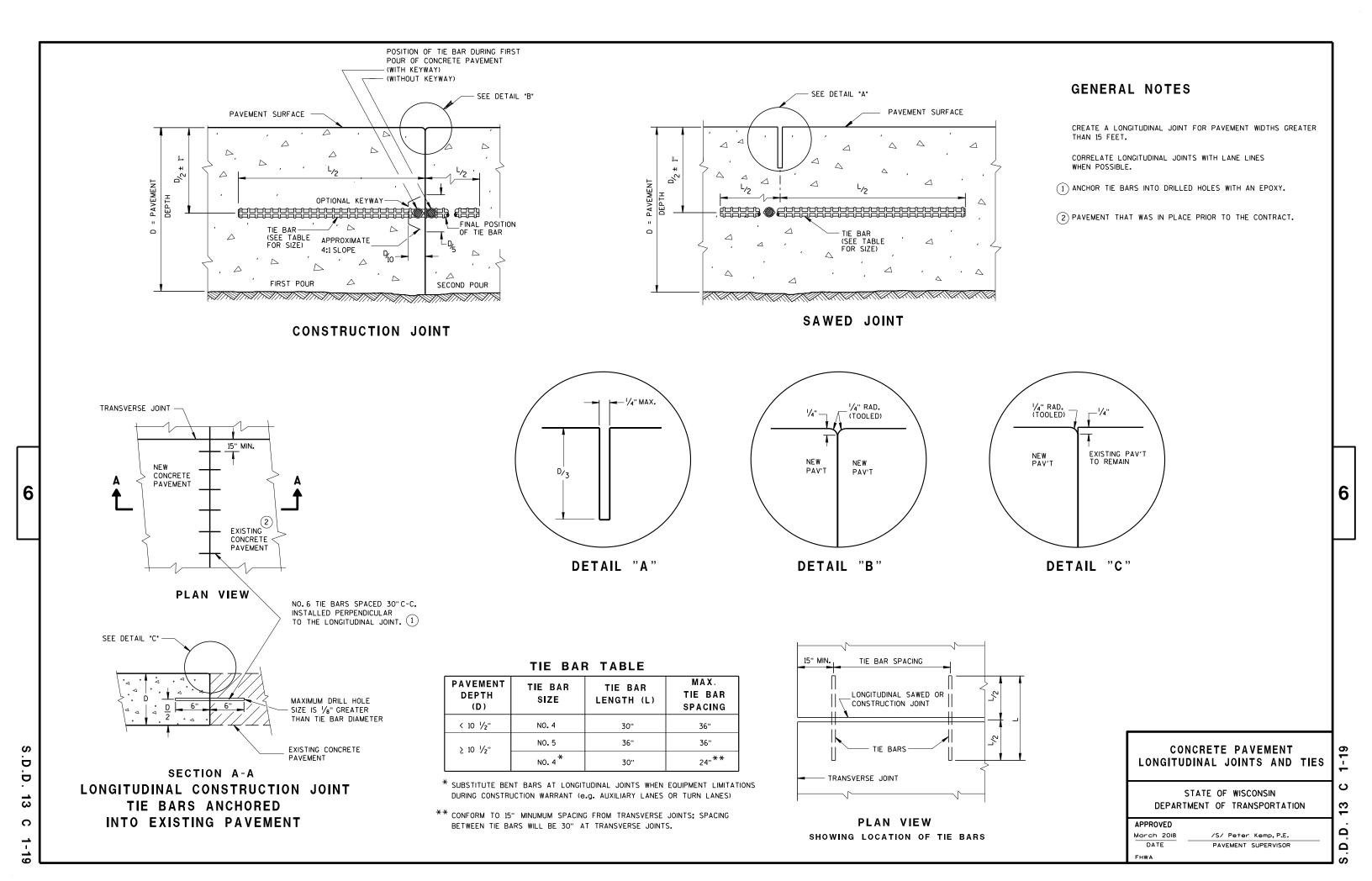
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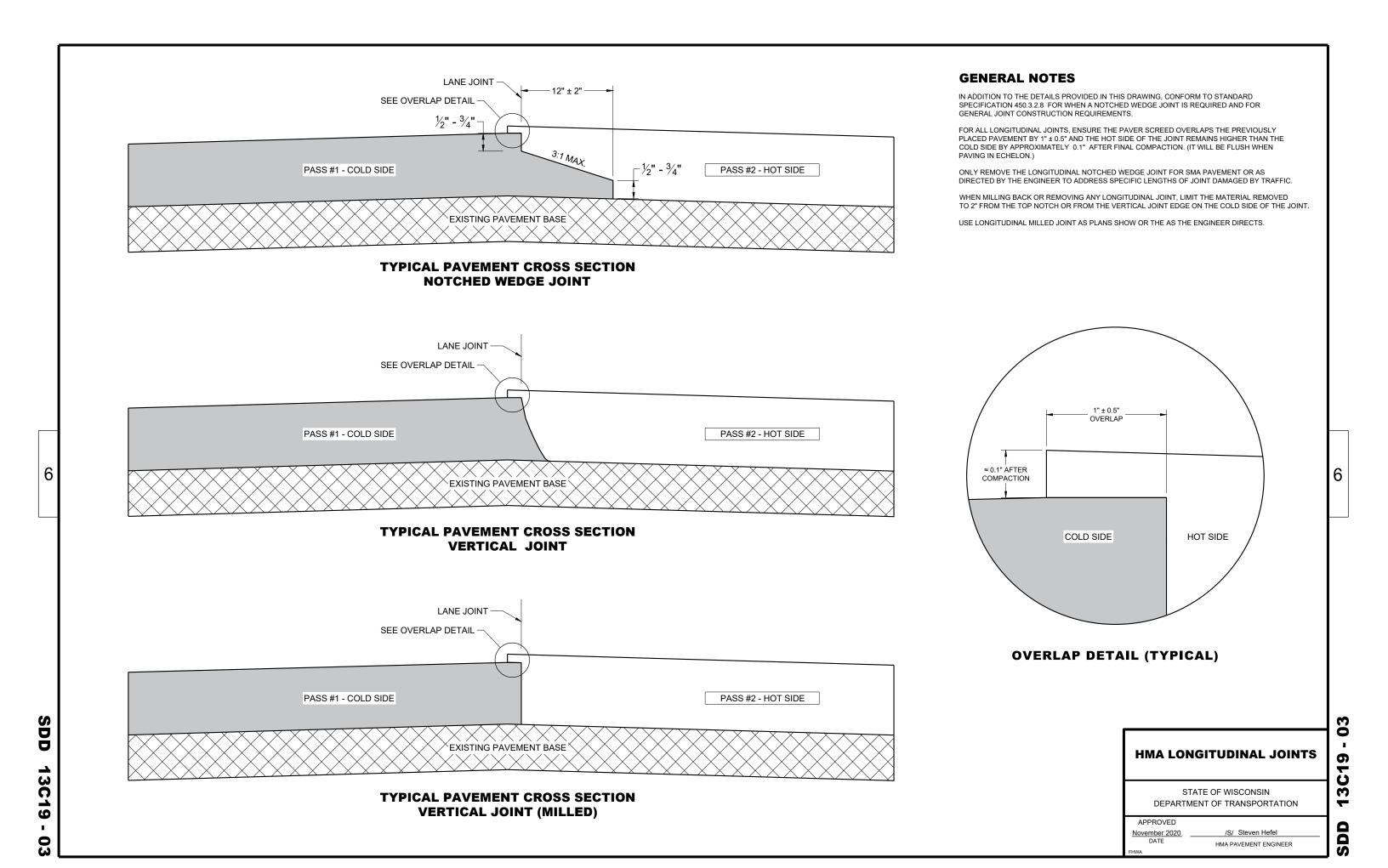
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

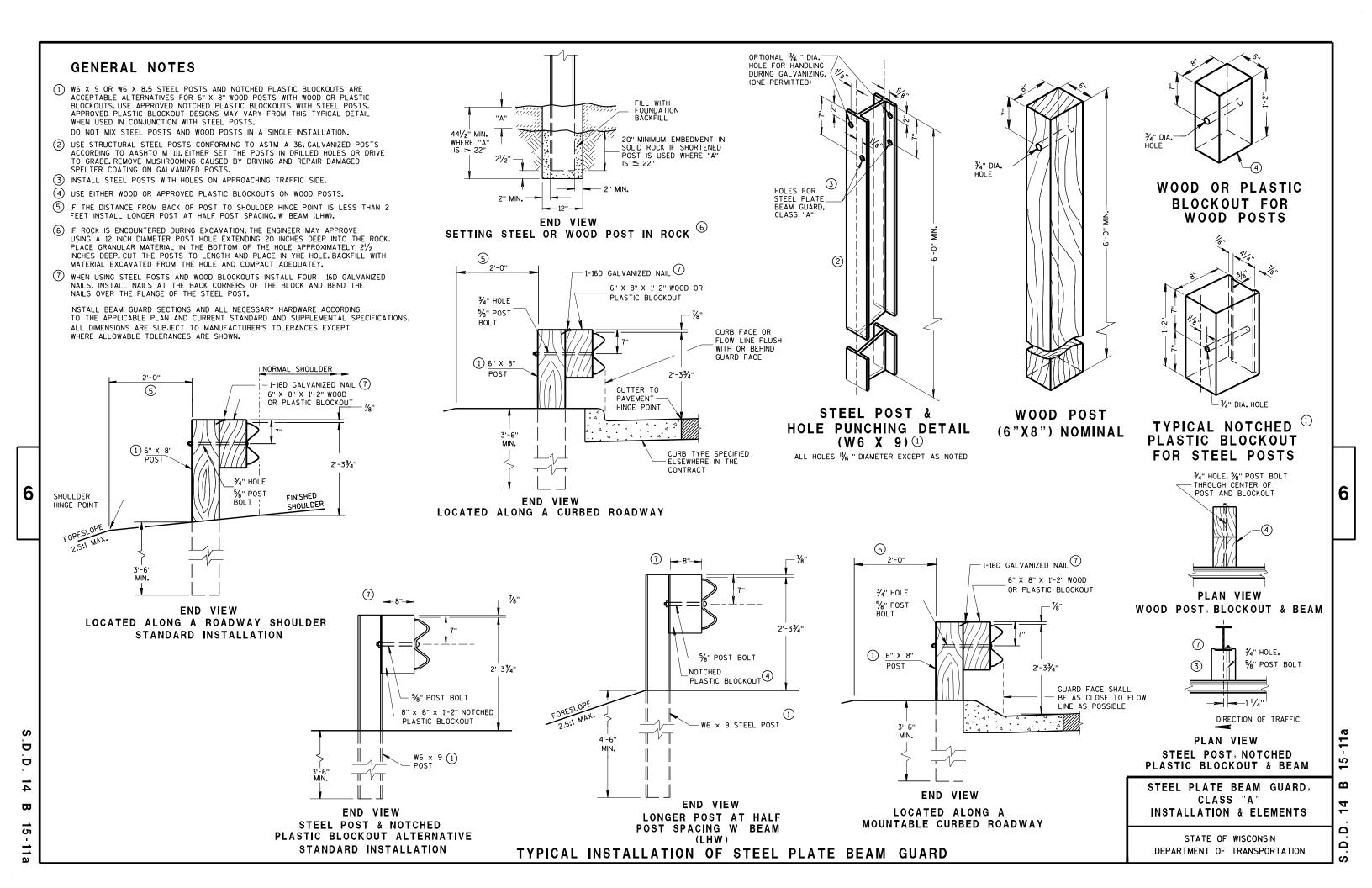
APPROVED	
June, 2015	/S/ Peter Kemp, P.E.
DATE	PAVEMENT SUPERVISOR

^{**} CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.









POST SPACING STANDARD INSTALLATION

12'-6" OR 25'-0"

EFFECTIVE LENGTH OF BEAM

FRONT VIEW

POST SPACING FOR LONGER POST

AT HALF POST SPACING W BEAM (LHW)

3'-1¹/₂" C-C

SPACING

FRONT VIEW

3'-11/2" C-C

SPACING

3'-11/2" C-C

SPACING

FINISHED

SHOULDER

SECTION THRU W BEAM

SYMMETRICAL

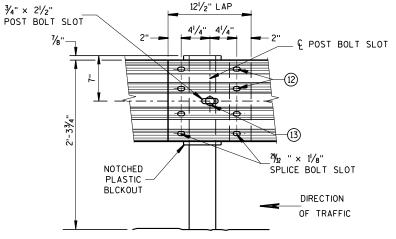
TRAFFIC 121/2" LAP 41/4" 41/4" WOOD OR PLASTIC BLOCKOUT FINISHED SHOULDER DIRECTION OF TRAFFIC

BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

GENERAL NOTES

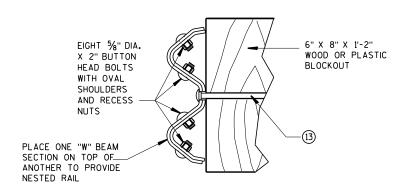
FURNISH GUARDRAIL DEFLECTORS FROM APPROVED PRODUCTS LIST.

- 9 DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINA. START REFLECTORS AT POST *9 AND SPACE EVENLY EVERY 100 FEET (MAX.) TO THE END OF GUARDRAIL RUN, USING A MINIMUM OF 3 REFLECTORS.
- (12) 8 1/8" \$ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
- 3 %" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH %" DIA. F844 FLAT WASHER UNDER NUT.



FRONT VIEW
BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD



NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

GUARDRAIL REFLECTOR 9

3'-1¹/₂" C-C

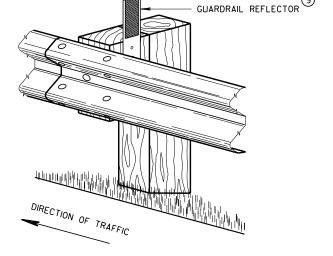
POST

SPACING

DIRECTION OF

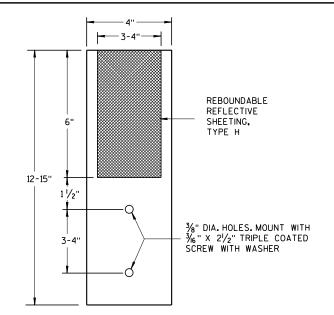
TRAFFIC

* USE DOUBLE SIDED WHITE GUADRAIL REFLECTORS ON ROADWAYS WITH BI-DIRECTIONAL TRAFFIC (NO MEDIAN). USE SINGLE SIDED WHITE (RIGHT SIDE) AND SINGLE SIDED YELLOW (LEFT SIDE) ON ROADWAYS WITH MEDIAN SEPARATION.



4" X 12" GUARDRAIL REFLECTOR DETAIL

AND TYPICAL INSTALLATION *



4"x 12" GUARDRAIL REFLECTOR

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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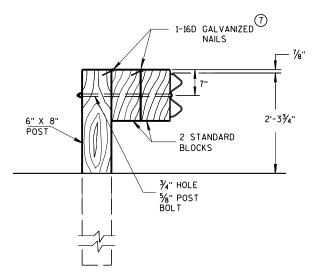
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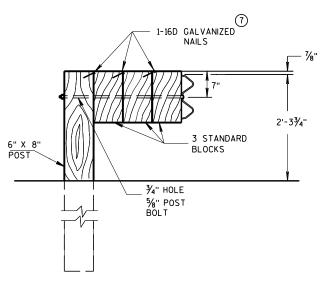
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DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

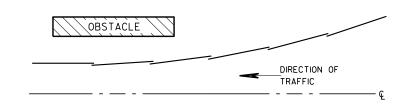


DETAIL FOR TRIPLE BLOCKS

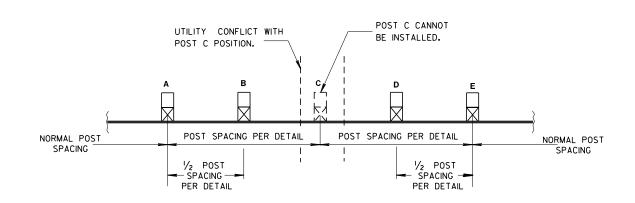
TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA 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.



PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE

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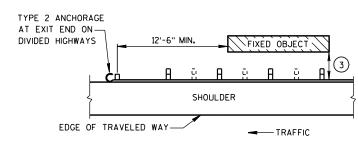
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

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BEAM GUARD AT SIDEROADS OR DRIVEWAYS



BEAM GUARD AT OBSTACLES **EXIT END - ONE WAY TRAFFIC**

GENERAL NOTES

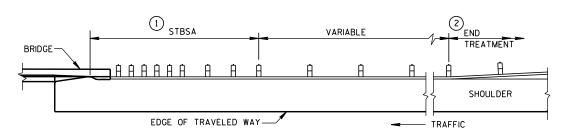
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PERTINENT STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL

W6 X 9 OR W6 X 8.5 STEEL POSTS WITH NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

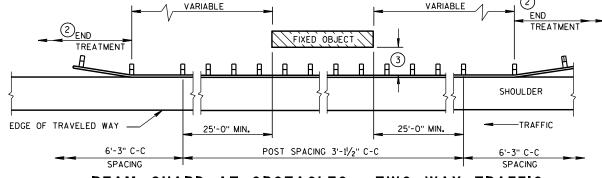
THE LOCATIONS AND LENGTHS OF BEAM GUARD ARE SHOWN ELSEWHERE IN THE PLAN.

- (1) STEEL THRIE BEAM STRUCTURAL APPROACH (STBSA) SEE CURRENT SDD 14B20.
- 2 USE AN APPROVED END TREATMENT FOR THE TRAFFIC APPROACH SIDE OF BRIDGE/OBSTACLES. USE TYPE 2 ANCHORAGE ONLY AT THE DOWNSTREAM ENDS OF BEAM GUARD LOCATED ALONG ROADWAYS WITH ONE WAY TRAFFIC.

3)	MINIMUM LATERAL DISTANCE FROM FACE OF BEAM GUARD TO FIXED OBJECT	POST SPACING
	3'-6"	3' - 11/2"
	4'-6"	6' - 3"



BEAM GUARD AT FULL WIDTH BRIDGES



BEAM GUARD AT OBSTACLES - TWO WAY TRAFFIC

(RAIL TO OBSTACLE CLEARANCE 3'-6" TO 4'-6")

2) END VARIABLE TREATMENT BEGIN FLARE END FLARE → EDGE OF FINISHED SHOULDER BRIDGE->SHOULDER **─** TRAFFIC EDGE OF TRAVELED WAY -FLARE RATE PER TABLE 1 AT RIGHT (FLARE RATES FOR BEAM GUARD AT NARROW BRIDGES)

BEAM GUARD AT NARROW BRIDGES (FLARED TO SHOULDER EDGE, THEN PARALLEL TO ROADWAY)

TABLE 1				
FLARE	E R/	ATES	FOR	BEAM
GUARD	ΑT	NAR	ROW	BRIDGES
			1	

POSTED SPEED (MPH)	FLARE RATE
25	13:1
30	15:1
35	16:1
40	18:1
45	21:1
50	24:1
55	26:1
65	30:1

STEEL PLATE BEAM GUARD	
CLASS "A"	
AT BRIDGES, OBSTACLES	
AND SIDEROADS/DRIVEWAYS	

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
8-21-07	/S/ Jerry H.Zogg
DATE	ROADWAY STANDARDS DEVELOPMENT
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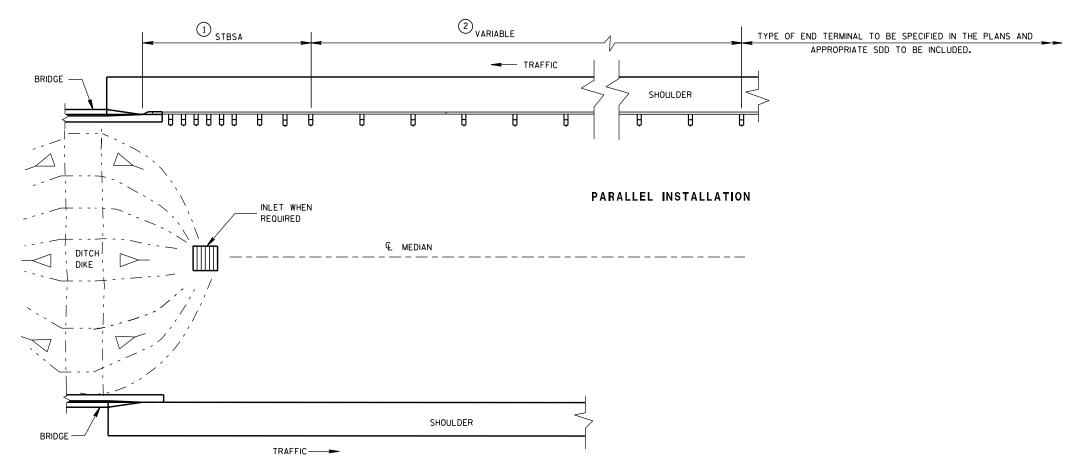
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- 1 STEEL THRIE BEAM STRUCTURAL APPROACH (STBSA) SEE CURRENT SDD 14B20.
- 2) LOCATIONS AND LENGTHS OF BEAM GUARD ARE SHOWN ELSEWHERE IN THE PLAN.



BEAM GUARD AT MEDIAN APPROACH TO BRIDGES

STEEL PLATE BEAM GUARD CLASS "A" AT MEDIAN APPROACH TO BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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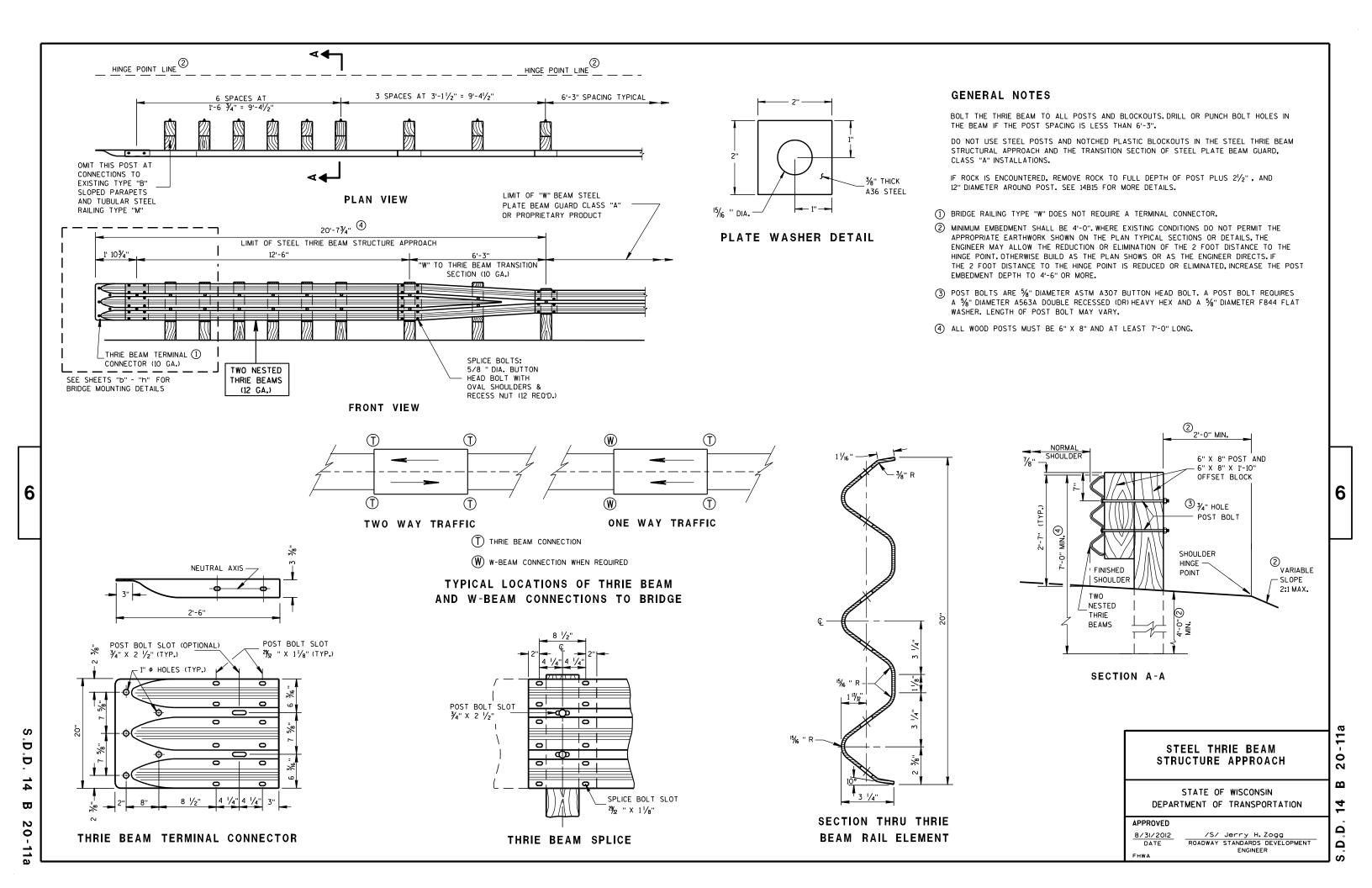
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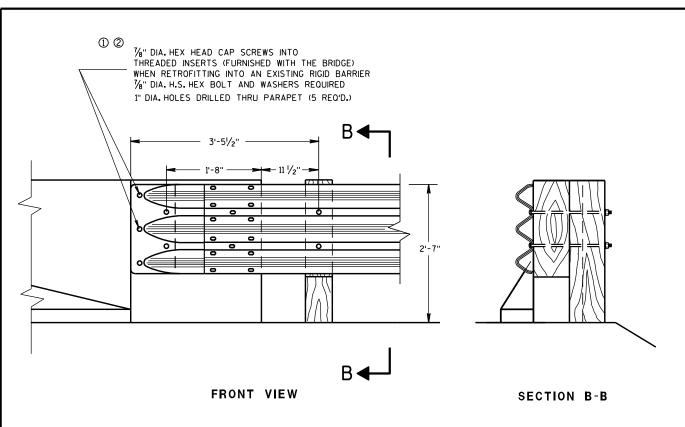
APPROVED

B-2I-O7 /S/ Jerry H. Zogg
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

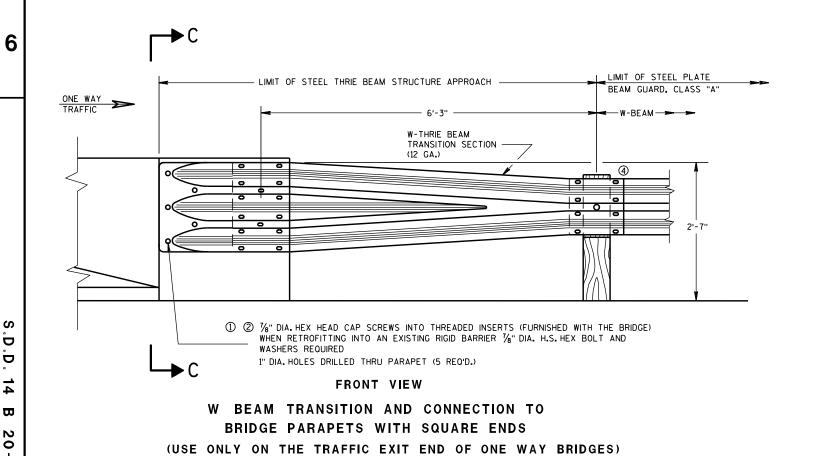
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THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS



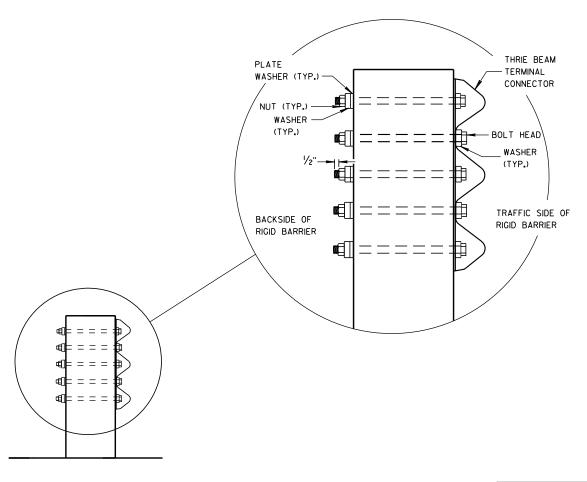
GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A325, A449 AND GALVANIZED PER STANDARD SPECIFICATIONS 614.

- ① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- ② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM TERMINAL CONNECTOR. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5%" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.
- (3) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".
- W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POST WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

DO NOT USE STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS IN THE STEEL THRIE BEAM STRUCTURAL APPROACH AND THE TRANSITION SECTION OF STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATIONS.



SECTION C-C

STEEL THRIE BEAM STRUCTURE
APPROACH, CONNECTION TO
SQUARE END PARAPETS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012 /S/ Jerry H. Zogg
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A325, A449 AND GALVANIZED PER STANDARD SPECIFICATIONS 614.

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- ② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE, CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH, ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM TERMINAL CONNECTOR, BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.
- 3 THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".
- (4) W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POST WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.
- (5) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.

DO NOT USE STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS IN THE STEEL THRIE BEAM STRUCTURAL APPROACH AND THE TRANSITION SECTION OF STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATIONS.

> PLATE WASHER (TYP.

> > NUT (TYP.)

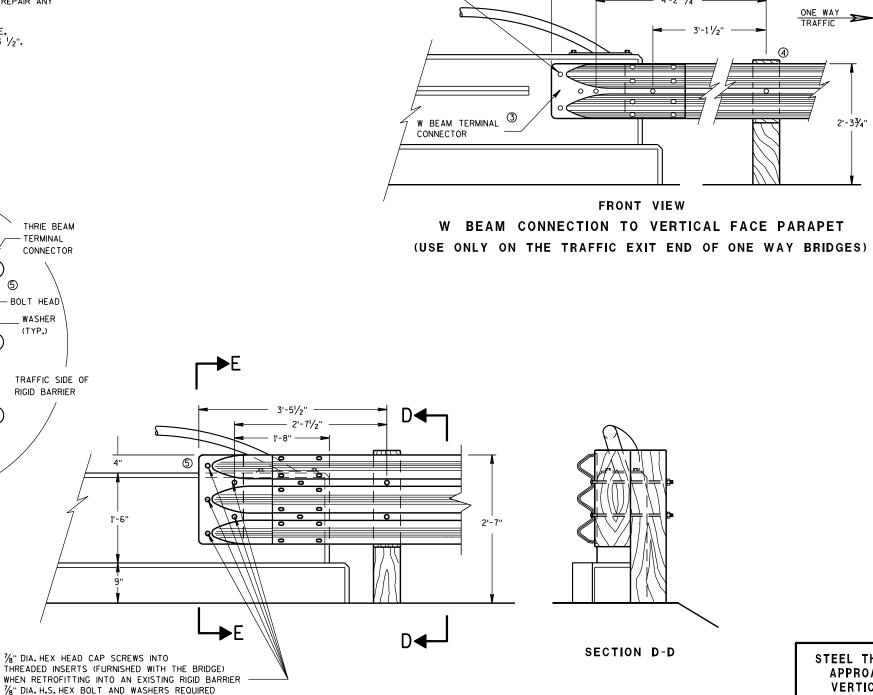
(TYP.)

BACKSIDE OF

RIGID BARRIER

WASHER

1/2".



① ② 7/8" DIA. HEX HEAD CAP SCREWS INTO

(4 REO'D.)

1" DIA. HOLES DRILLED THRU PARAPET

THREADED INSERTS (FURNISHED WITH THE BRIDGE)

1/8" DIA. H.S. HEX BOLT AND WASHERS REQUIRED

WHEN RETROFITTING INTO AN EXISTING RIGID BARRIER

1" DIA. HOLES DRILLED THRU PARAPET (4 REO'D.)

Δ"

1'-6"

THRIE BEAM TERMINAL

CONNECTOR

BOLT HEAD

(TYP.)

WASHER

TRAFFIC SIDE OF

1 2 78" DIA. HEX HEAD CAP SCREWS INTO

RIGID BARRIER

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

FRONT VIEW

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SECTION E-E

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO 0 VERTICAL FACED PARAPETS Ñ $\mathbf{\omega}$ STATE OF WISCONSIN

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DEPARTMENT OF TRANSPORTATION

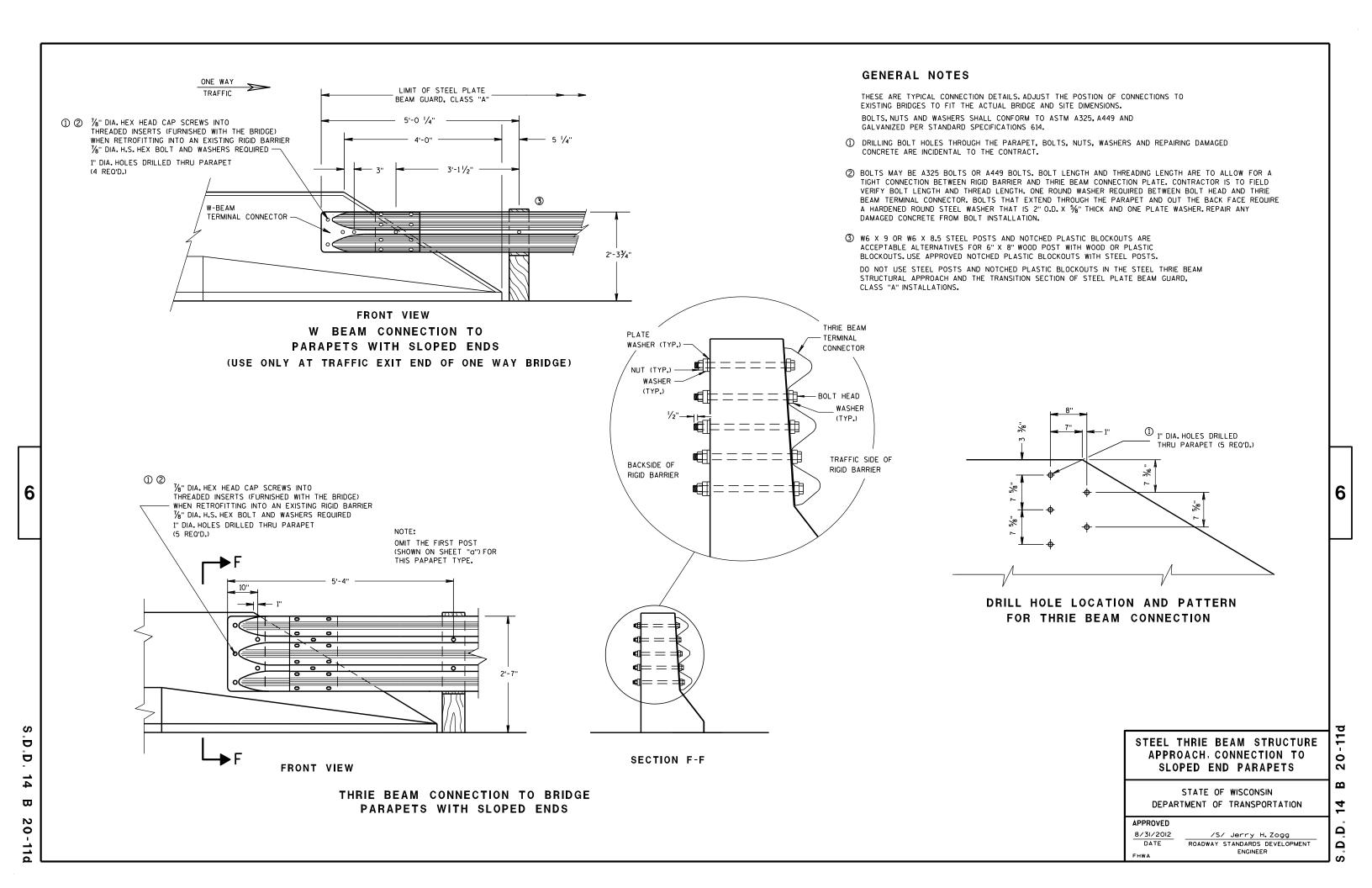
LIMIT OF STEEL PLATE

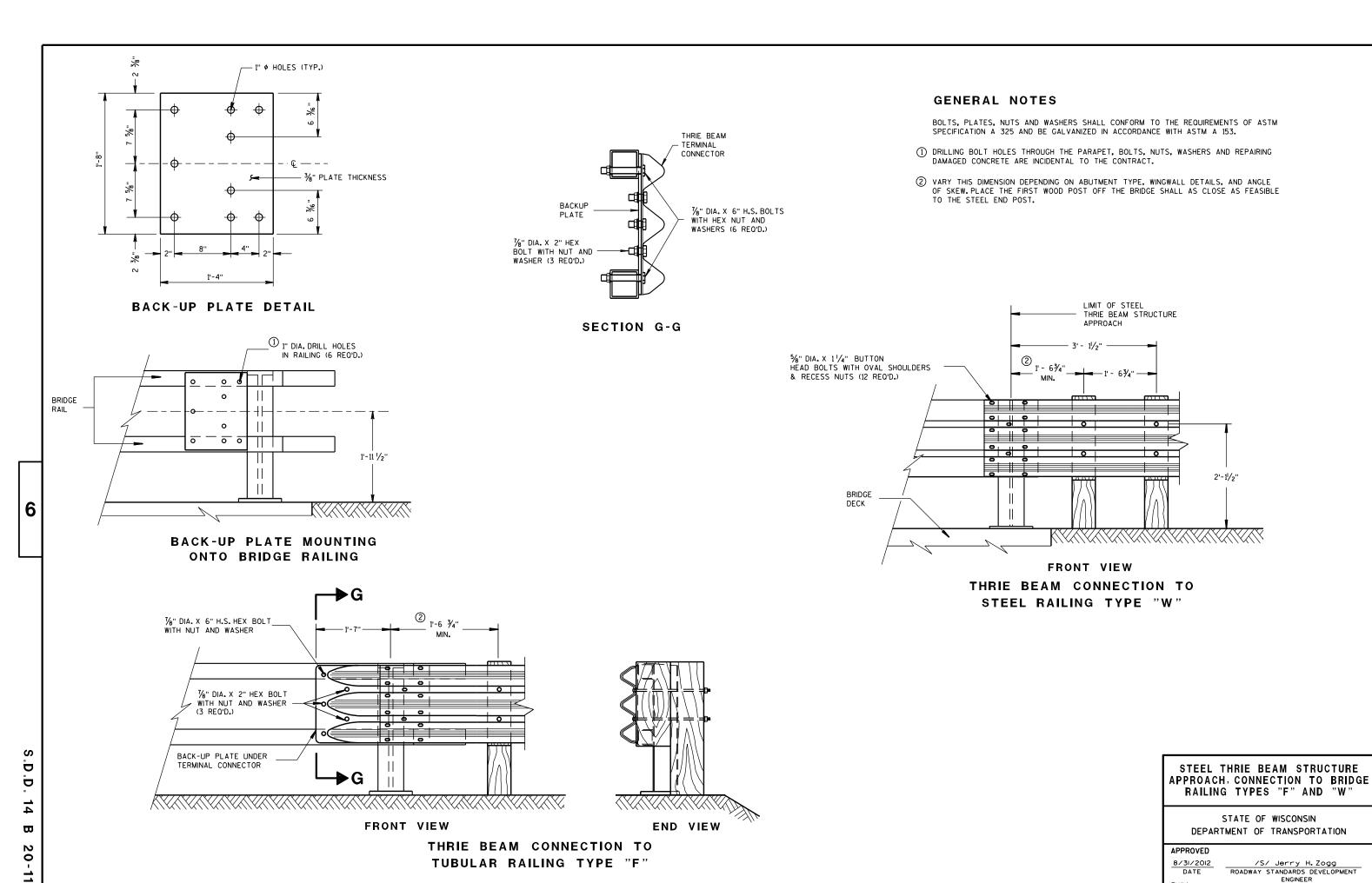
BEAM GUARD, CLASS "A"

2'-33/4"

5'-0 1/4" —

APPROVED 8/31/2012 /S/ Jerry H.Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

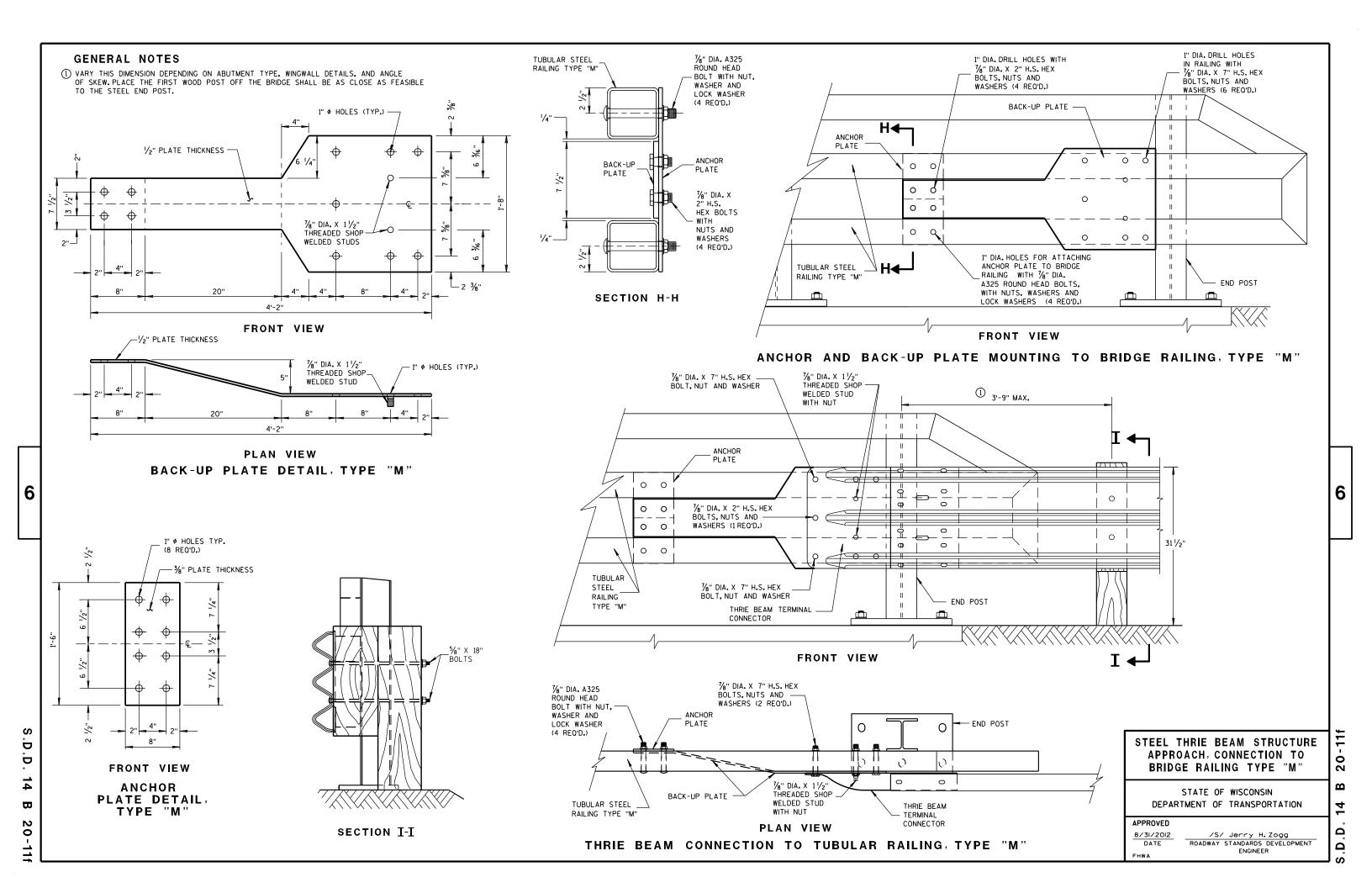


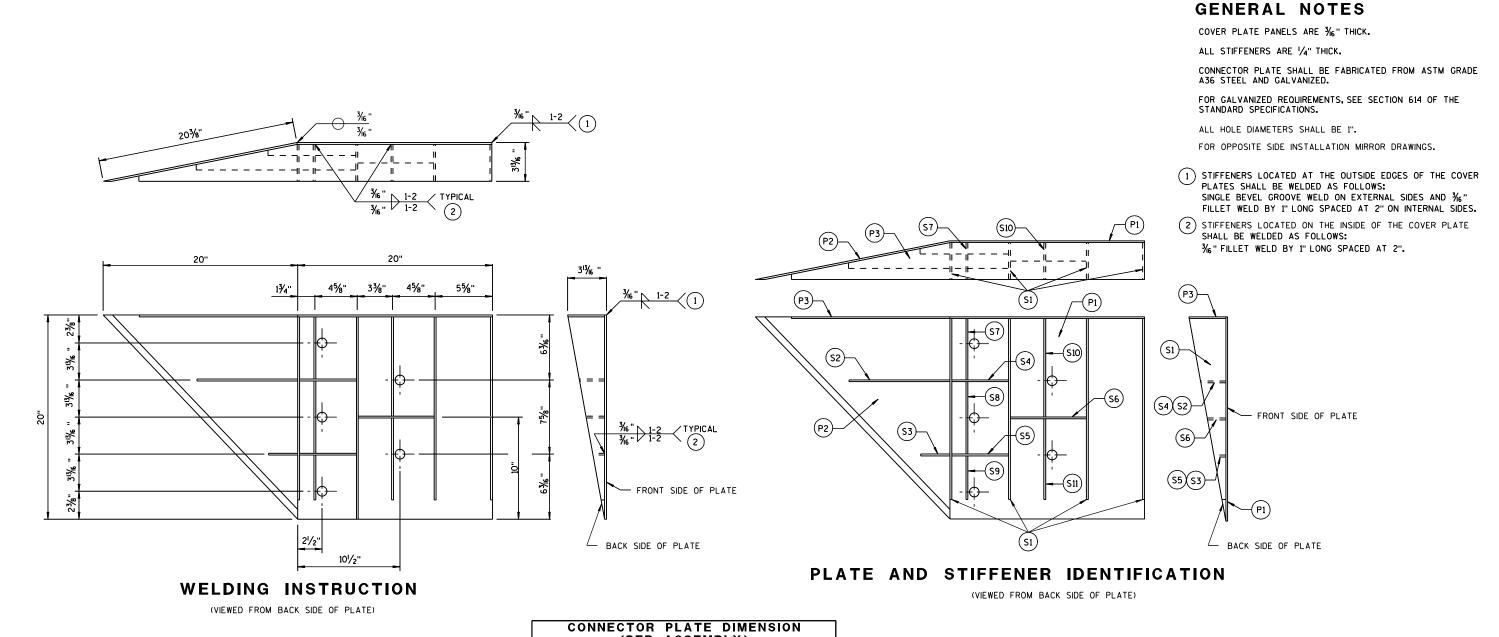


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P2 20" × 20" × 28%; 3∕6" B₽Ĉ Р3 39" × 3%" × 20" × 19%6" 3∕16 '' B_C D S1 181/6" × 35/8" × 183/4" 4 1/4" BA 101/4" × 21/16" × 103/8" × 1/2" S2 1/4" S3 вфо 3" × 11/16" × 31/8" × 1/2" 1/4" S4 вЁ 61/8" × 21/6" 1/4" S5 1 вД 61/8" × 11/16" 1/4" в∟ S6 7¾" × 1¾" 1/4" **S7** 2%6" × 6" × 3%" × 5%" 1/4" 1⁵/₃₂ " × 7¹/₂" × 2¹/₂" × 7³/₈" S8 1/4"

61/16" × 63/16" × 13/32"

8½" × 8¾" × 11¾ "

11/8" × 91/8" × 35/8" × 91/16 "

1/4"

1/4"

1/4"

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S10

S11

STEEL THRIE BEAM STRUCTURE APPROACH

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTOR PLATE DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

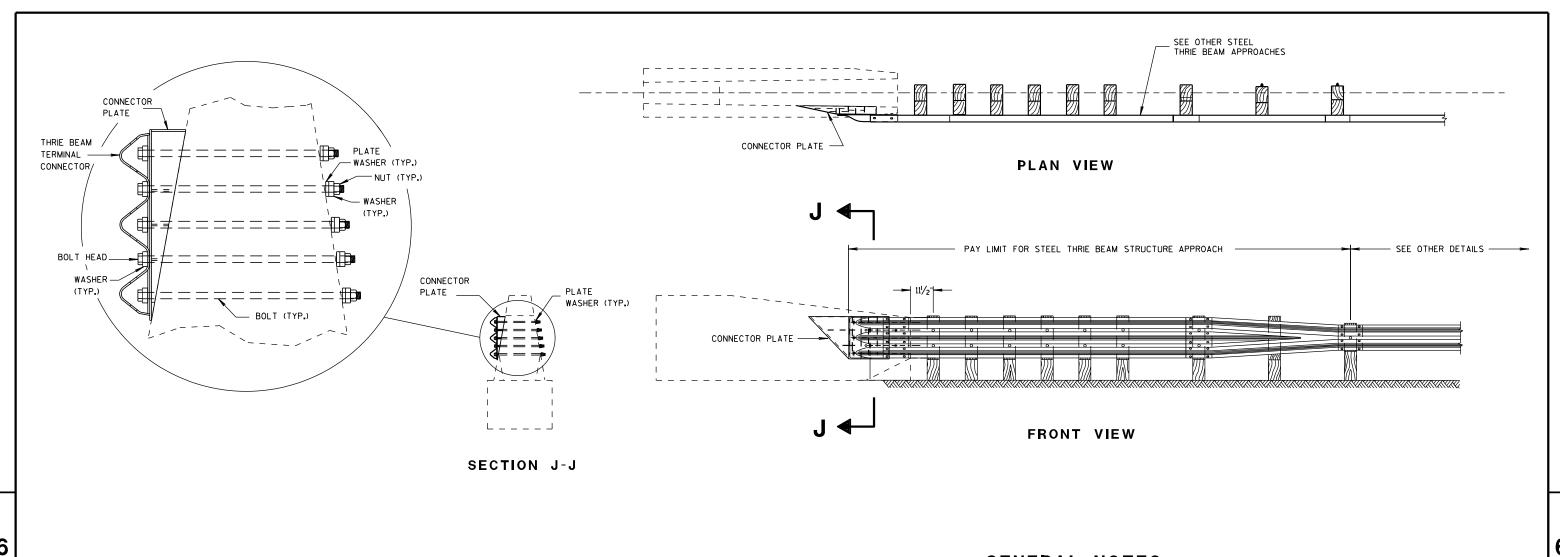
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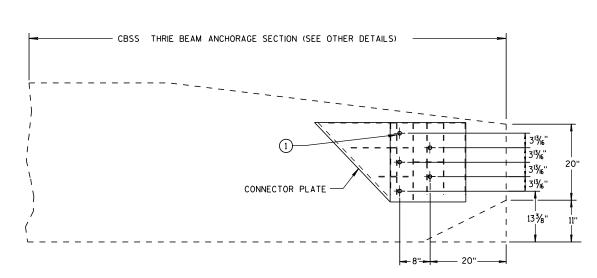
/31/2012 /S/ Jerry H. Zogg
DATE ROADWAY STANDARDS DEVELOPMENT
ENGINEER

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GENERAL NOTES

CONSTRUCT PER STANDARD SPECIFICATION 614.

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

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

CONNECTOR PLATE LOCATION

STEEL THRIE BEAM STRUCTURE APPROACH

STEEL THRIE BEAM STRUCTURE APPROACH, SINGLE SLOPE ATTACHMENT

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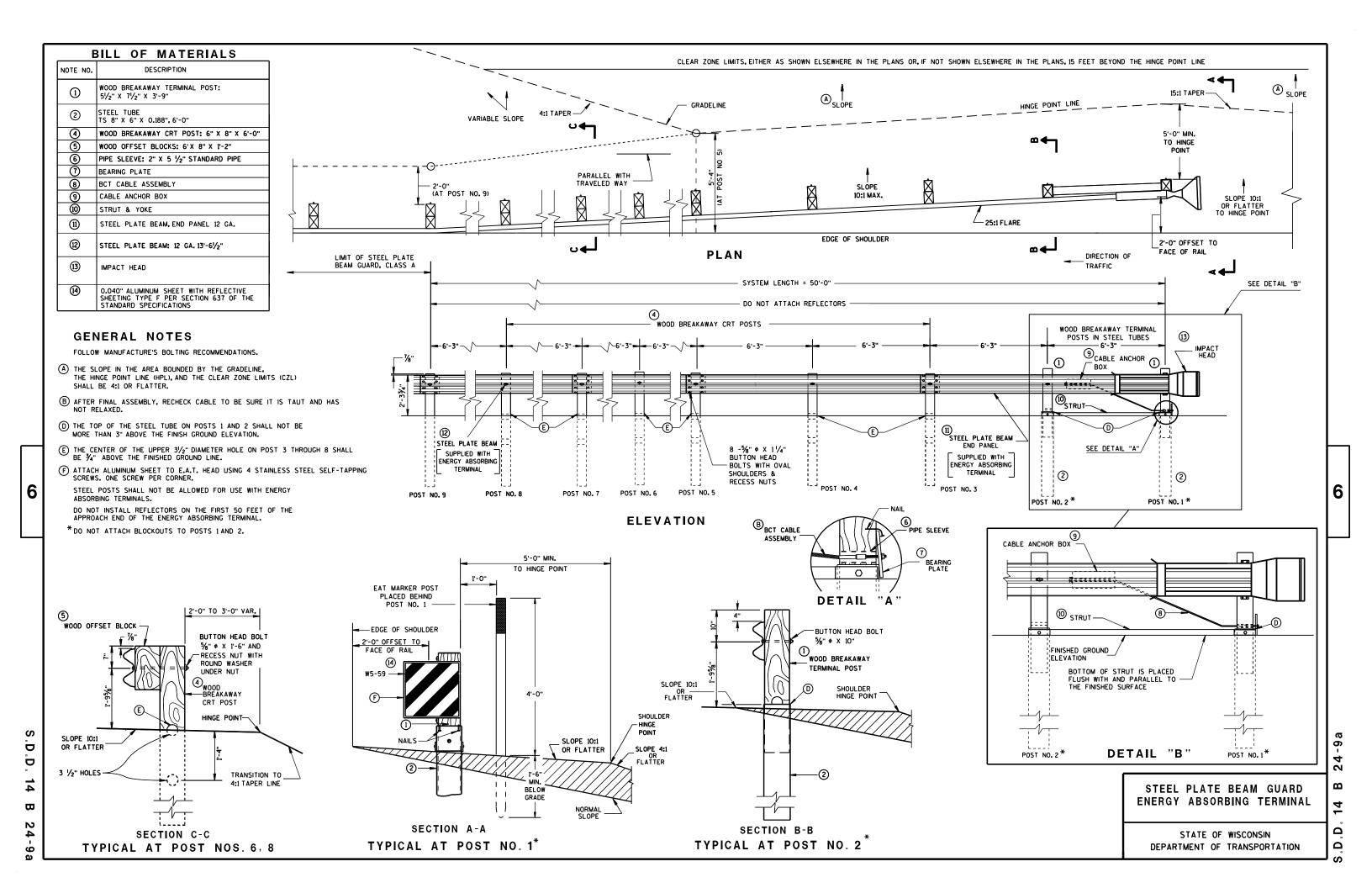
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

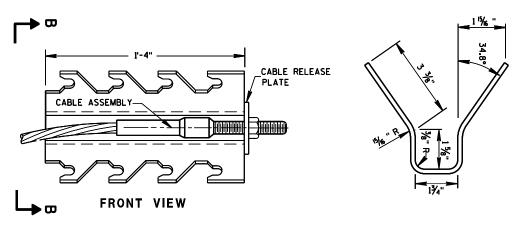
APPROVED

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

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

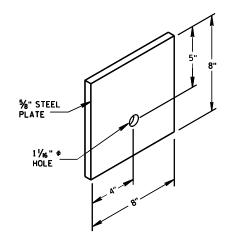
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SECTION B-B

(9) CABLE ANCHOR BOX



TSTEEL BEARING PLATE

STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

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24-9b

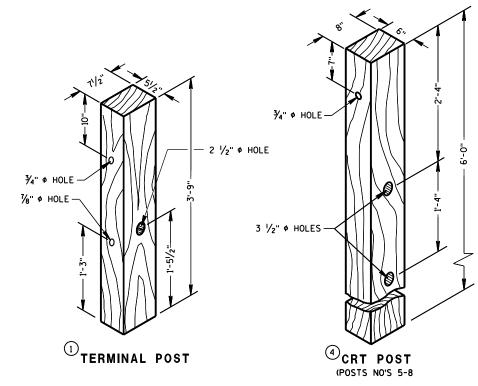
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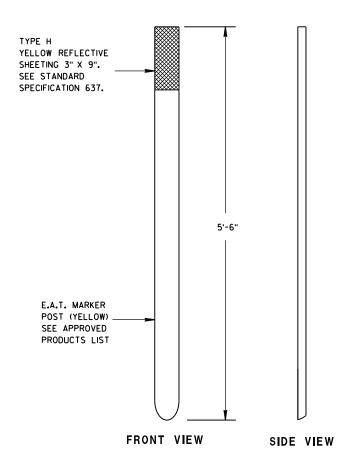
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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(4) REFLECTIVE SHEETING DETAILS



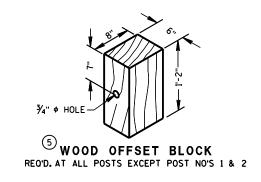
WOOD BREAKAWAY POSTS



E.A.T. MARKER POST

GENERAL NOTES

WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 1/2" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.



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24-9c

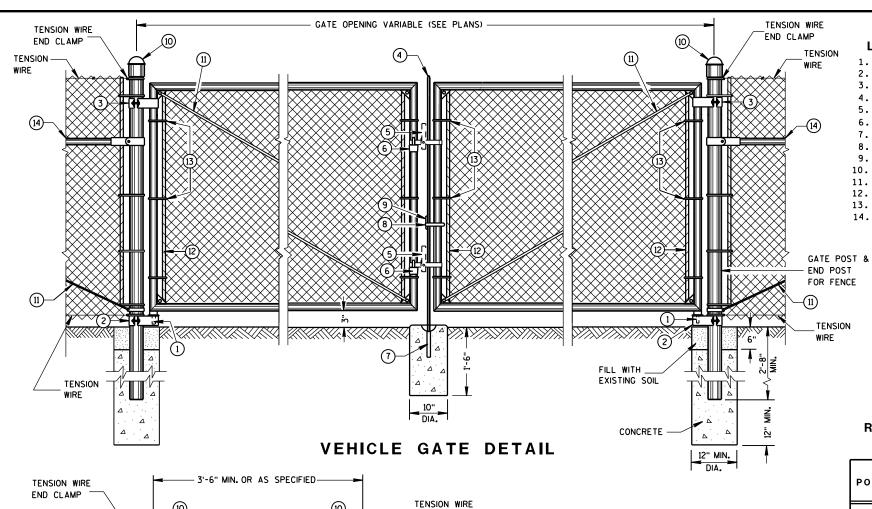
6

STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Rodney Taylor June 2017 ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR



END CLAMP

EXISTING SOIL

PEDESTRIAN GATE DETAIL

CONCRETE

12" MIN.

CONCRETE

12" MIN.

TENSION

GATE POST &

END POST

FOR FENCE

TENSION -

GATE POST &

TENSION

END POST

FOR FENCE

6

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REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL	LESS THAN OR EQUAL TO 6 FT.	SP3
POSTS **	GREATER THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EOUAL TO 6 FT.	SP2
LINE POSTS	LESS THAN OR EQUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

BRACE RAIL TYPES

USE	TYPE
BRACE RAIL	SP1 OR FS1

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

- LEGEND 1. STRAIGHT PLUG
- 2. BOTTOM HINGE
- TOP HINGE
- 4. PLUNGER ROD
- 5. FULCRUM LATCH 6. FORK CATCH *
- 7. PLUNGER ROD CATCH
- 8. LOCK KEEPER GUIDE
- 9. LOCK KEEPER
- 10. DOME TOPS
- 11. TRUSS RODS 12. TENSION BAR
- 13. TENSION BANDS
- 14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

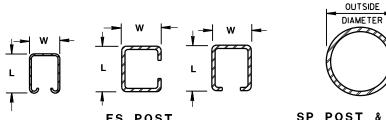
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.





SP POST & RAIL

CROSS SECTIONS OF POSTS AND RAILS

ROLLED-FORMED STEEL FENCE POST (2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) INCH	WIDTH (W)	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

ROUND STEEL FENCE POST (1.8 OZ./SQ. FT. COATING)

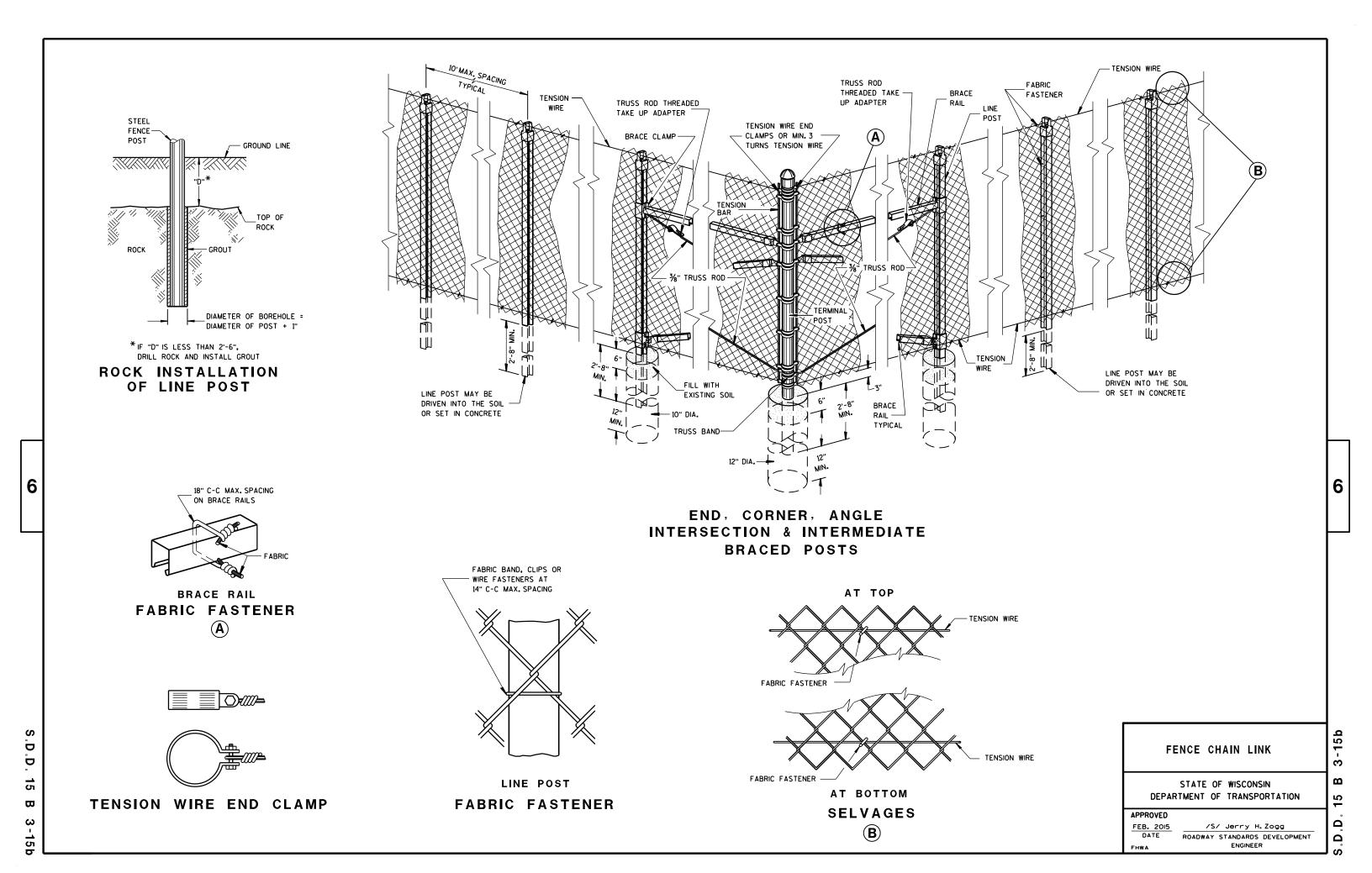
POST TYPE	OUTSIDE Dimension Inch	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

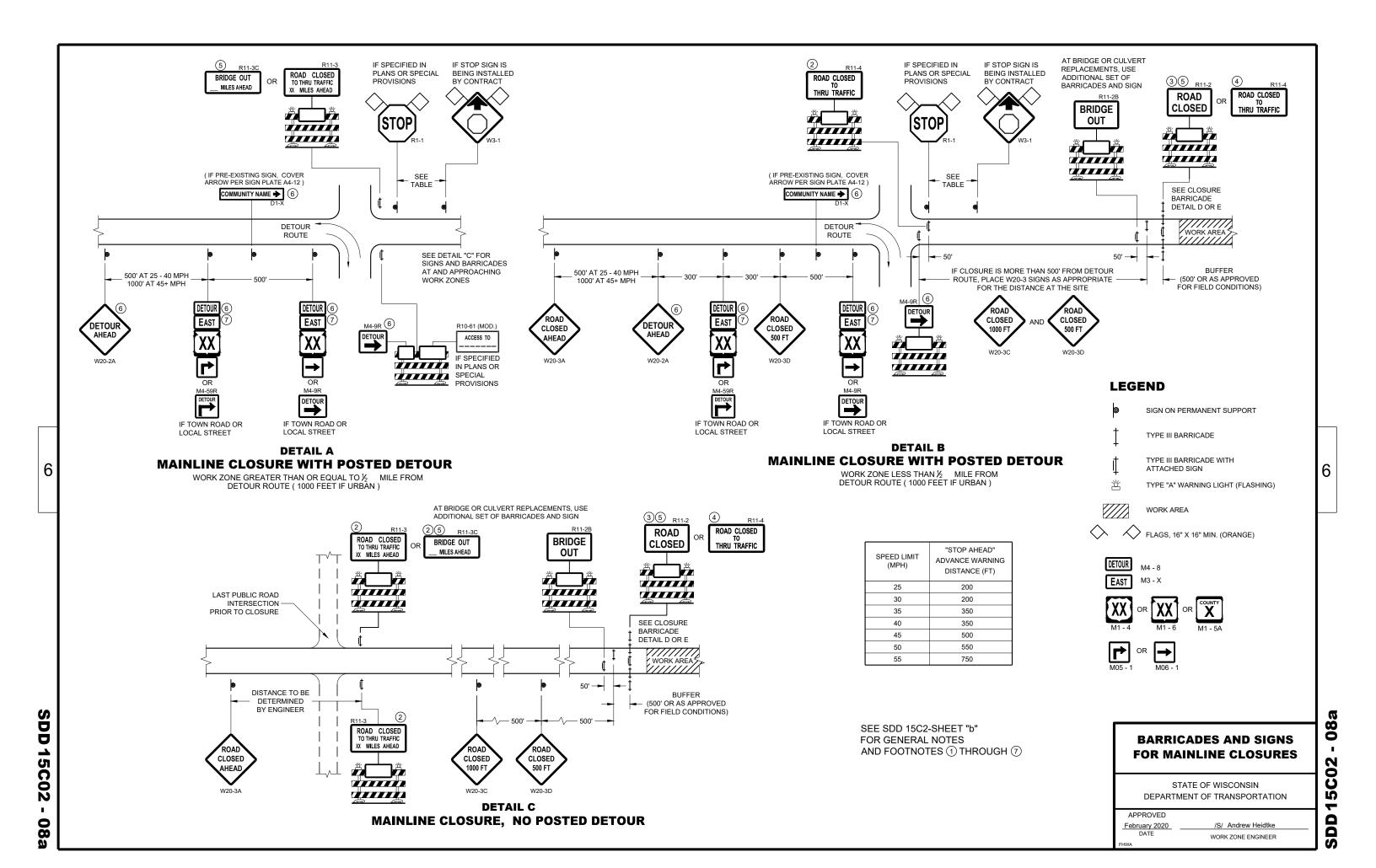
REQUIRED POST SIZE FOR GATES

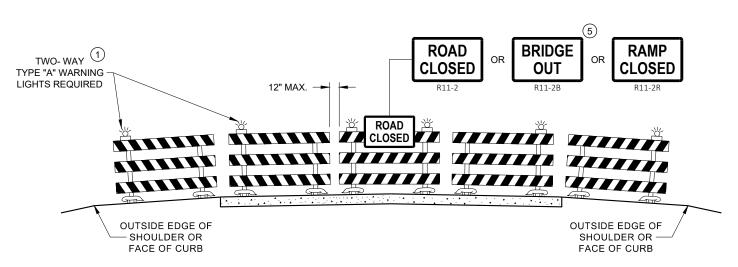
USE	LEAF WIDTHS FEET	POST TYPE
	LESS THAN OR EQUAL TO 6 FT.	SP4
GATES	LESS THAN OR EOUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EOUAL TO 23 FT.	SP7

FENCE CHAIN LINK

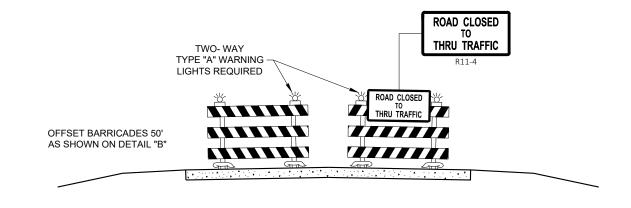
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION က \mathbf{B} Ω Ω







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 WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 2 AND R11 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- (7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

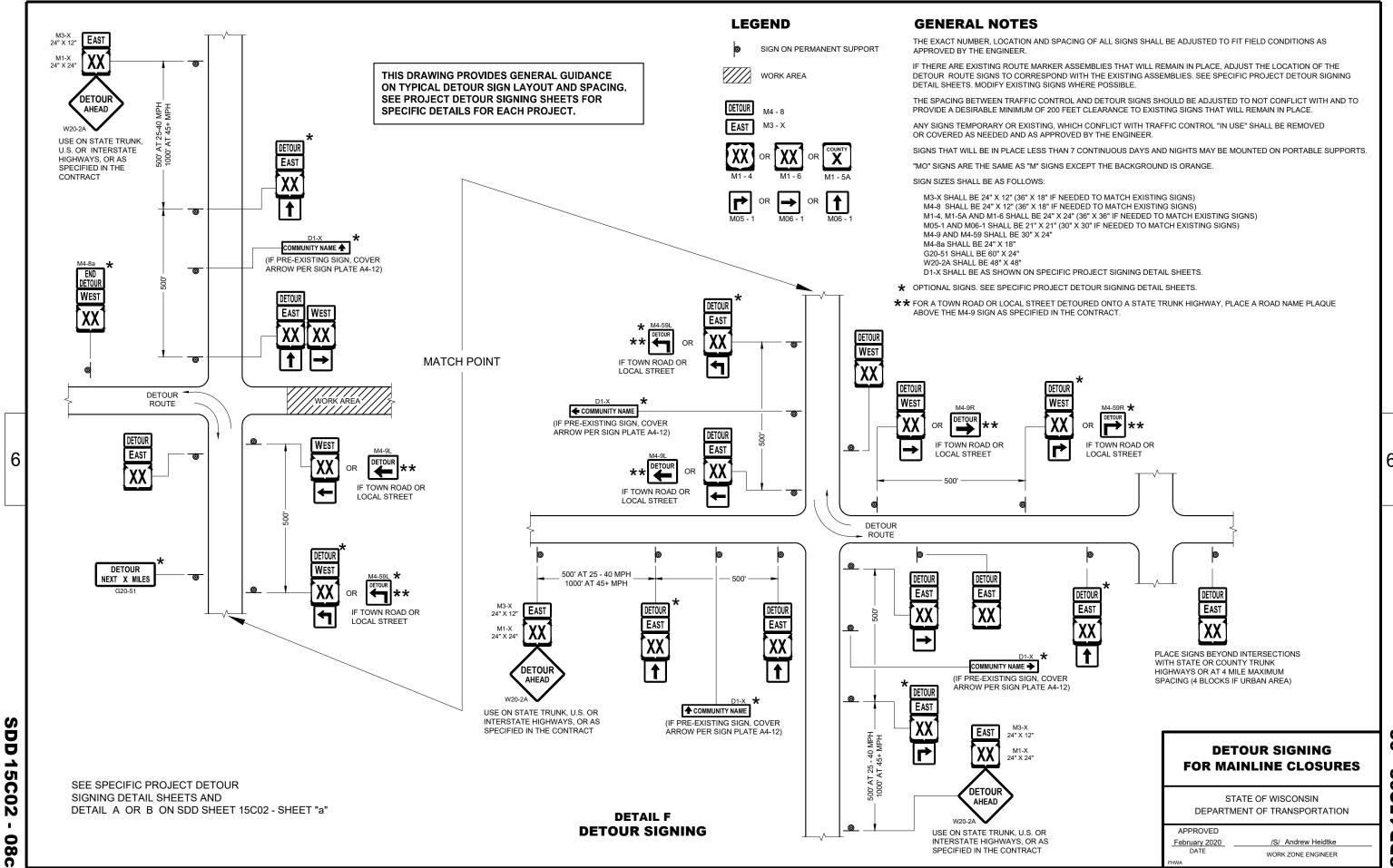
APPROVED

February 2020 ____

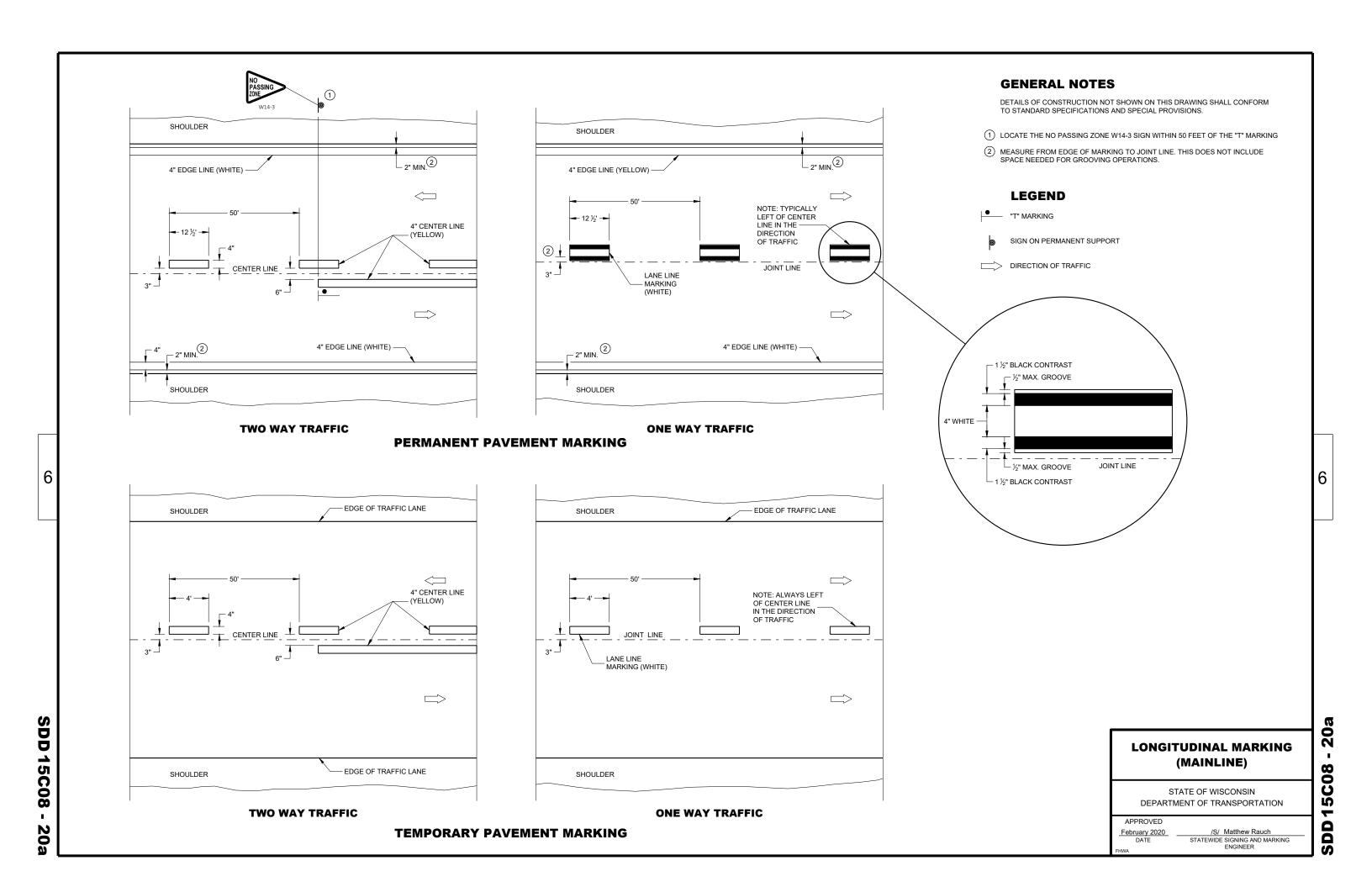
/S/ Andrew Heidtke
WORK ZONE ENGINEER

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RUMBLE

STRIPS

WORK

GENERAL NOTES FLAGGING LEGEND DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH SIGN ON PORTABLE OR PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PERMANENT SUPPORT PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING. UNIFORM TRAFFIC CONTROL DEVICES. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING TEMPORARY PORTABLE RUMBLE WORK OPERATION OR AS APPROVED BY THE ENGINEER. STRIP ARRAY "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE. SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE DIRECTION OF TRAFFIC ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED. THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP WORK AREA **TEMPORARY PORTABLE RUMBLE STRIPS** WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS. TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER. FLAGGER, EQUIPPED WITH STOP/SLOW EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S PADDLE FASTENED ON SUPPORT STAFF RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN. ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST. INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS. DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS. **SIGN AND TEMPORARY RUMBLE** STRIP ARRAY SPACING TABLE 5' MIN BE SPEED LIMIT SPACING "A" USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, PREPARED THIS SIGN SHALL BE LOCATED BETWEEN THE 25-30 MPH TO STOP W20-7A AND W20-4A SIGNS, USING SPACING "A" 35-40 MPH STOP/SLOW PADDLE ŔUMBLĖ 45-55 MPH 500' WO3-4 WORK **ON SUPPORT STAFF** ROAD STRIPS VARIABLE DISTANCE - 200' - 300' (TYP.) END ROAD WORK |||3 WORK AREA A/2 END ROAD WORK 200' - 300' (TYP.) VARIABLE DISTANCE

TRAFFIC CONTROL FOR LANE CLOSURE WITH **FLAGGING OPERATION**

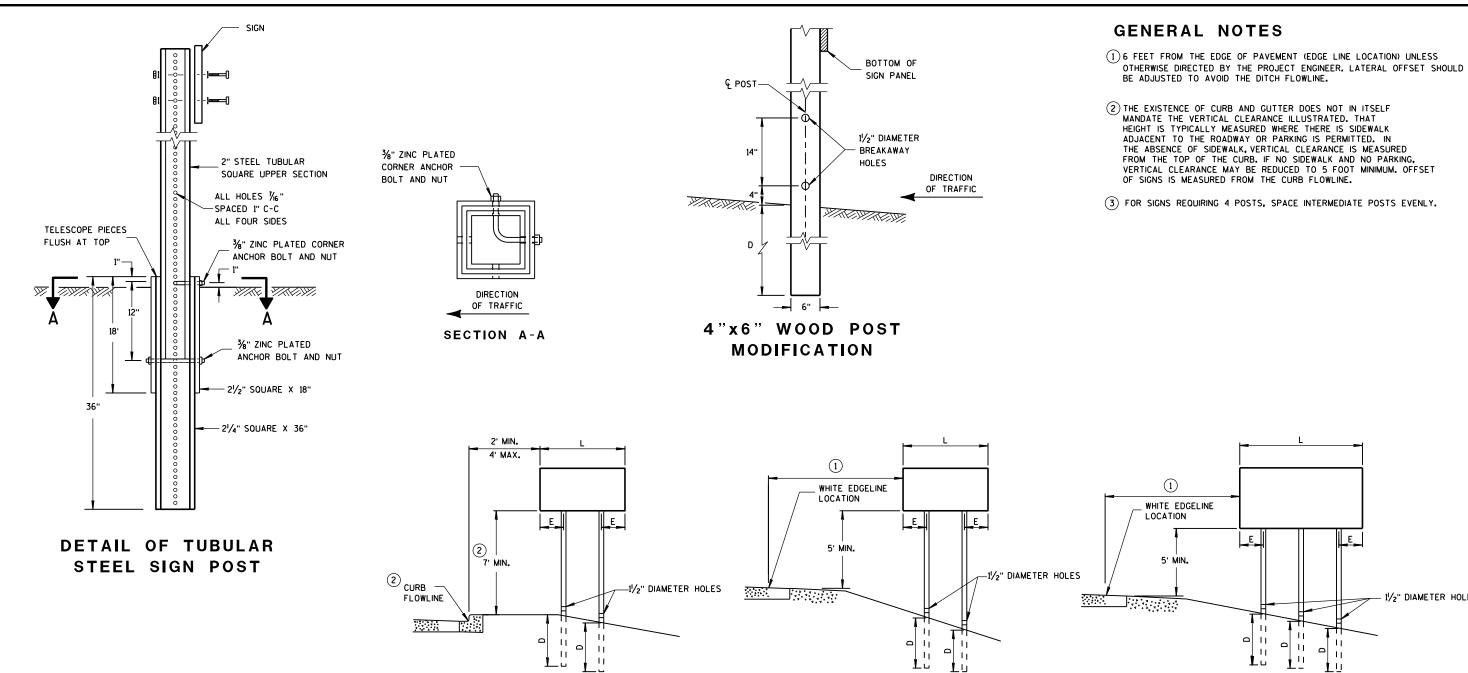
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2019	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION



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

RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

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

4" X 6" WOOD POST

POST SPACING REQUIREM	POST SPACING REQUIREMENTS											
Ĺ	E	WOOD POSTS REQUIRED										
48" OR LESS AND LESS THAN 20 SO.FT.	-	1										
LESS THAN 60"	12"	2	؛ [
60" TO 120"	L/5	2										
GREATER THAN 120" LESS THAN 168"	12"	3										
168" AND GREATER	12"	4										

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

-11

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

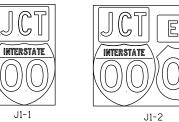
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

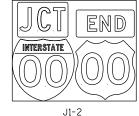
> /S/ Andrew Heidtke WORK ZONE ENGINEER

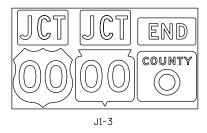
APPROVED

June 2017 DATE

TYPICAL ASSEMBLIES

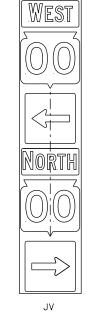




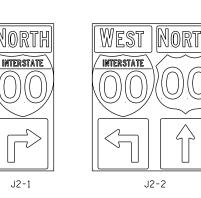








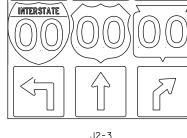
(Typical Vertical J-Assembly See Note 10 and 11)

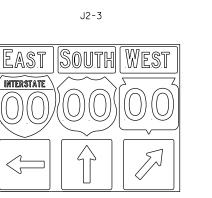


INTERSTATE

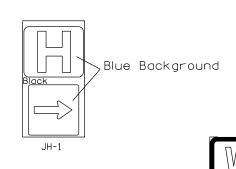
J3-2

J4-2







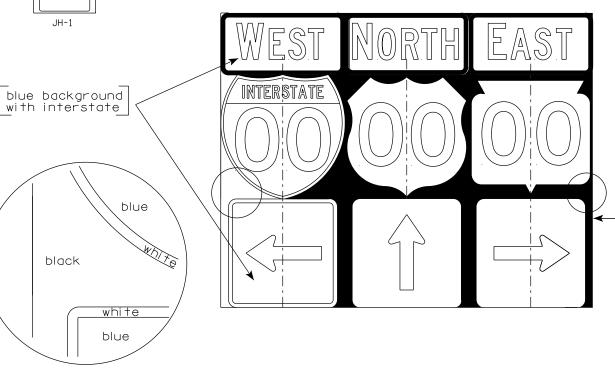


NOTES 1. Signs are Type II - Type H Reflective

2. Color:

Background - Black Non-reflective Message - see Note 5

- 3. Message Series See Note 5
- 4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
- 5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
- 6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
- 7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
- 8. Route assemblies that have 24 inch route shields and have dimensions greater 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.
- 9. Route assemblies that have 36 inch shields and have dimensions areater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
- 10. All Vertical J Assemblies are given a Sign Code of JV
- 11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.







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FRONTAGE ROAD

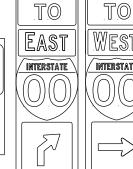
J12-1



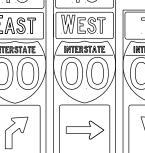


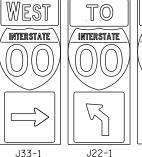
J3-1

J4-1

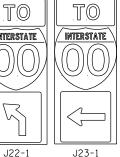


J32-1





COUNTY



WEST



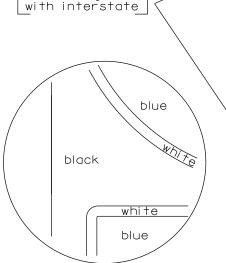
COUNTY

J4-2









ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES WISCONSIN DEPT OF TRANSPORTATION

black background

APPROVED For State Traffic Engineer PLATE NO. <u>A2-1S.9</u>

DATE <u>3</u>/18/21

SHEET NO:

PROJECT NO:

PLOT NAME :

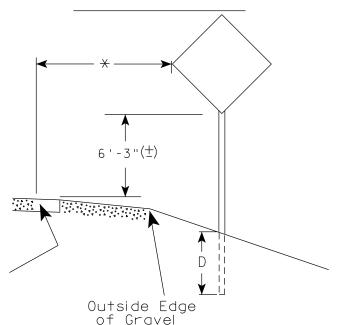
black

white

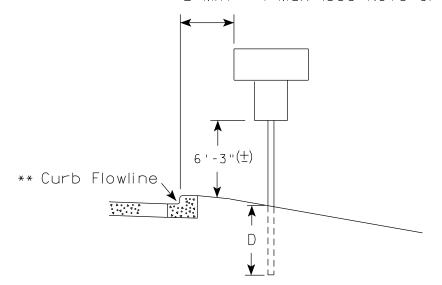
2' Min - 4' Max (See Note 6)

The state of t

White Edgeline Location



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



White Edgeline Location

geline

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

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.

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.

2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.

The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (\pm). 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" (\pm).

- 3. For expressways and freeways, mounting height is 7'- 3" (\pm) or 6'-3" (\pm) depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is 5' 3'' ($\frac{+}{2}$).
- 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.

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

Matthew R Rawh

For State Traffic Engineer

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

SHEET NO:

Ε

PROJECT NO:

FILE NAME: C:\CAEfiles\Projects\tr_stdplate\A43.dgn

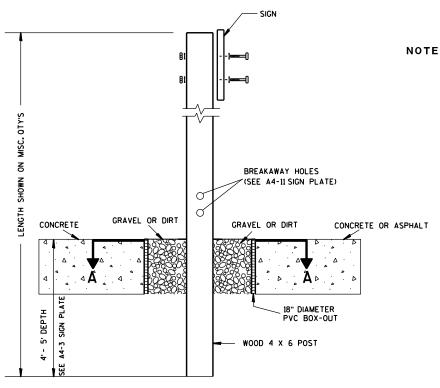
measured from the flow line.

COUNTY: PLOT DATE: 13-MAY 2020 1:04

PLOT BY : mscj9h

PLOT NAME :

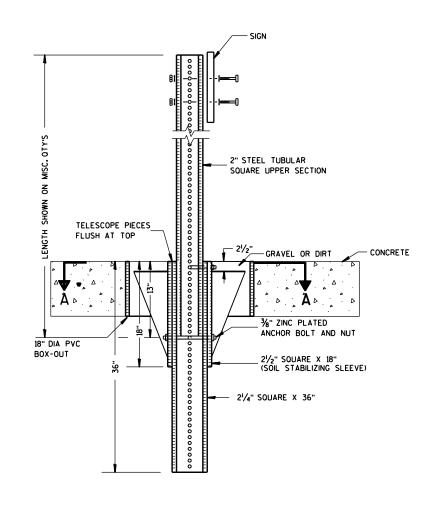
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



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.



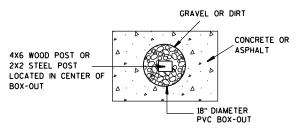
ELEVATION VIEW

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

ELEVATION VIEW

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

- 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.
- $\star\star\star$ 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'

OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

TYPICAL INSTALLATION

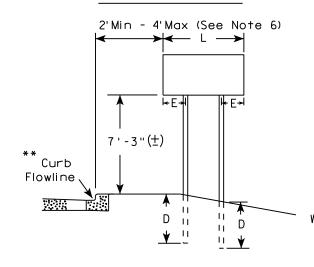
For State Traffic Engineer

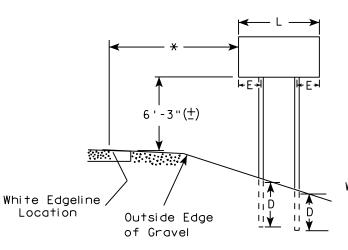
DATE 8/21/17 PLATE NO. A4-4.15

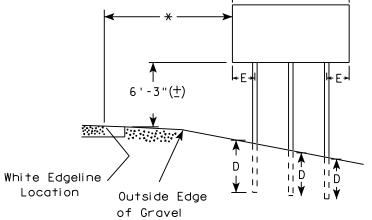
SHEET NO:

URBAN AREA

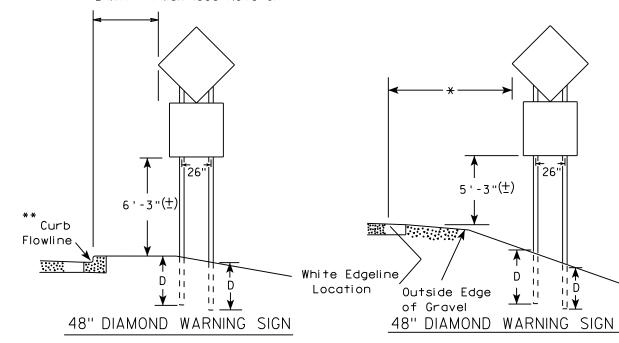
RURAL AREA (See Note 3)







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



	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRED	
	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

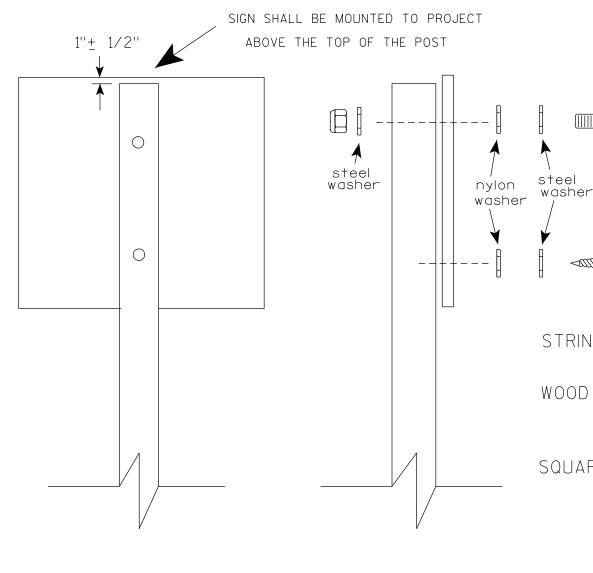
PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

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

PLOT SCALE: 108.188297:1.000000

WISDOT/CADDS SHEET 42



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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

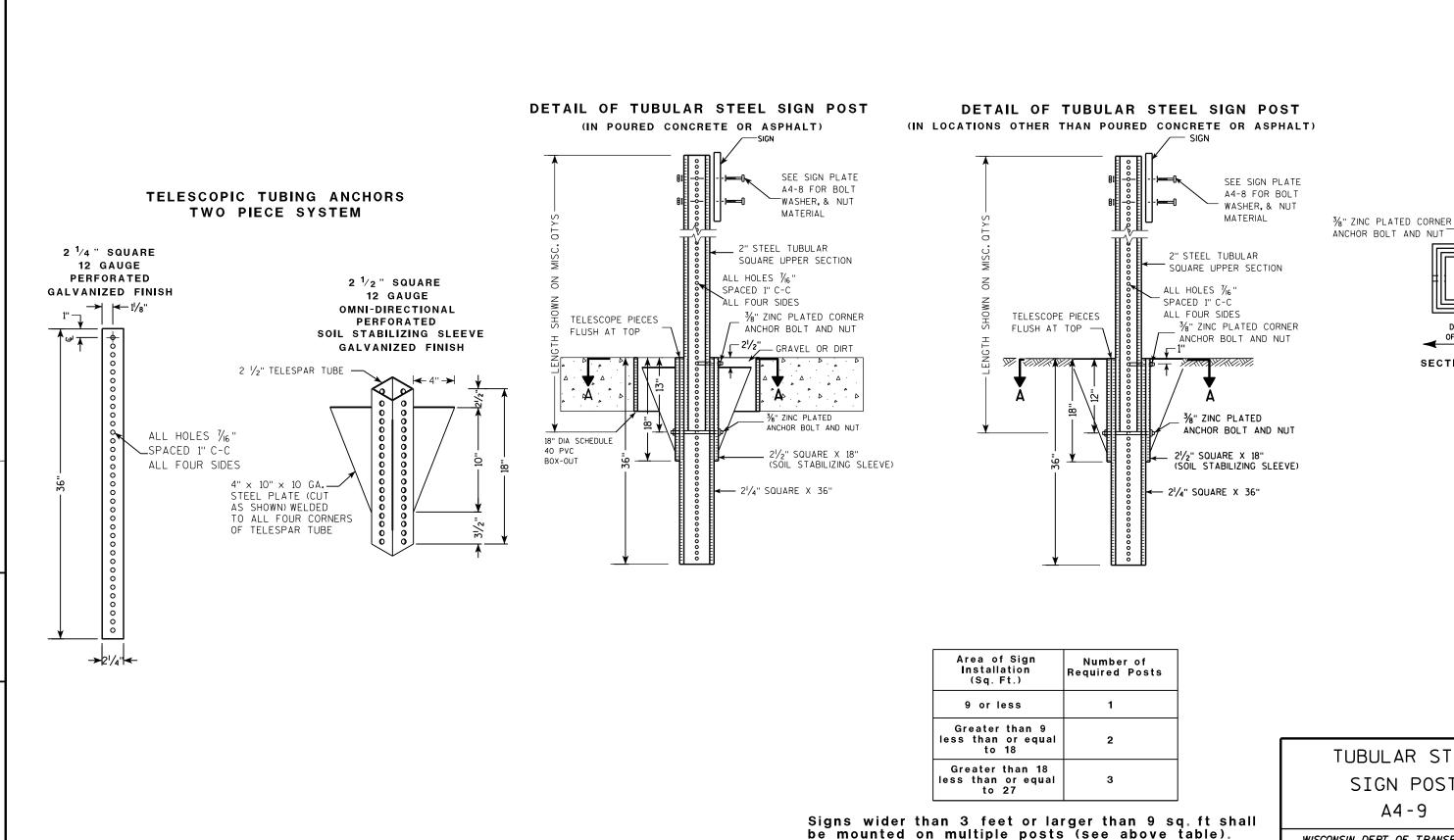
PLATE NO. <u>A4-8.9</u>

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

Ε



TUBULAR STEEL SIGN POST A4-9

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 2/05/15 PLATE NO. <u>A4-9.9</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN

HWY:

PROJECT NO:

PLOT DATE: 05-FEB-2015 17:09

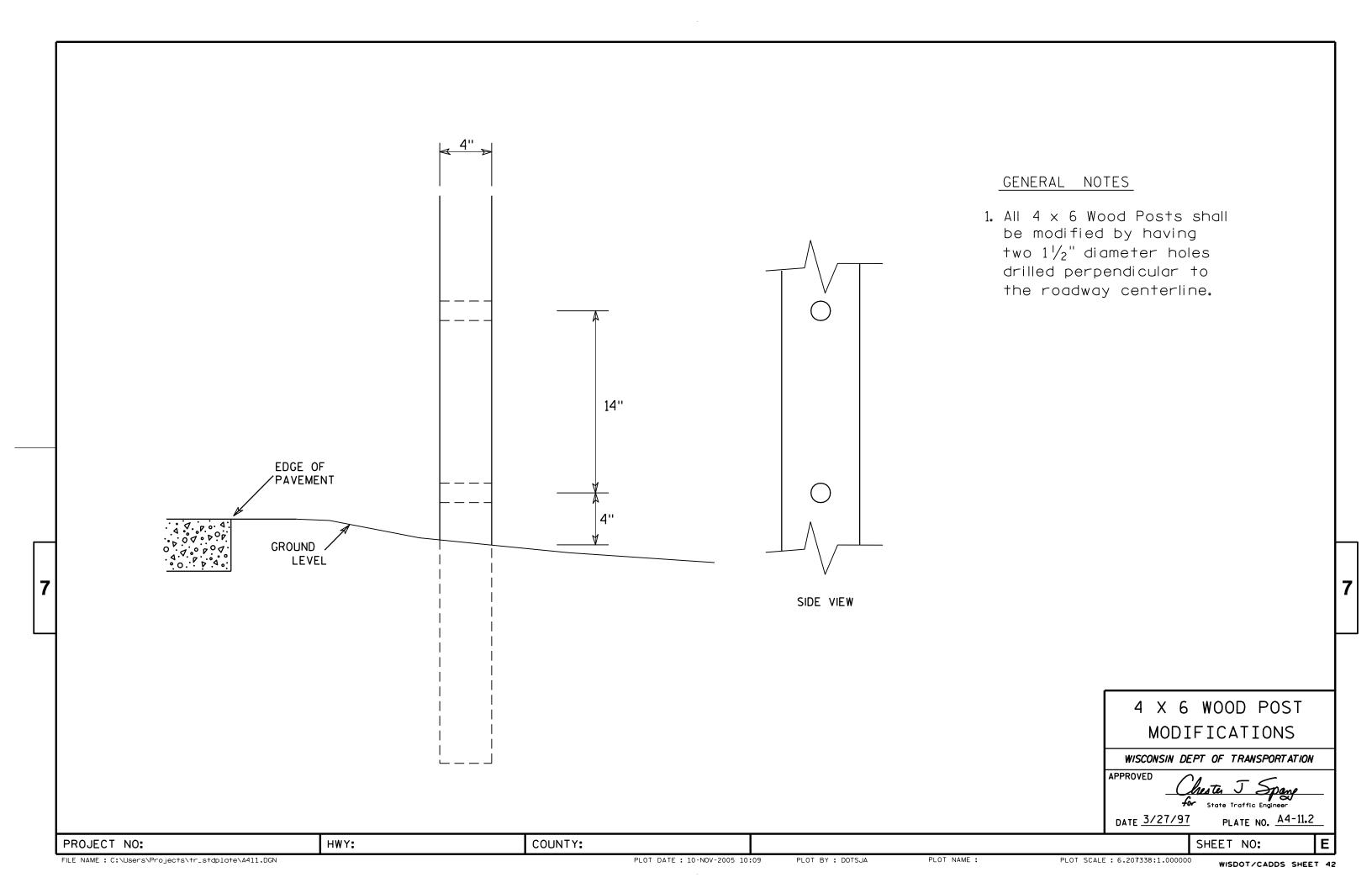
COUNTY:

PLOT NAME :

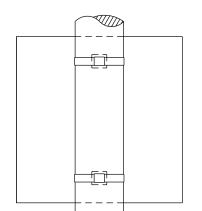
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

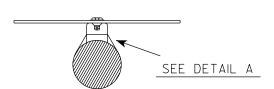
SECTION A-A

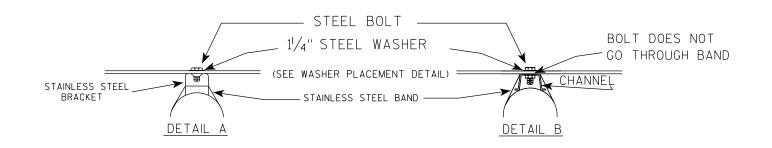


BANDING

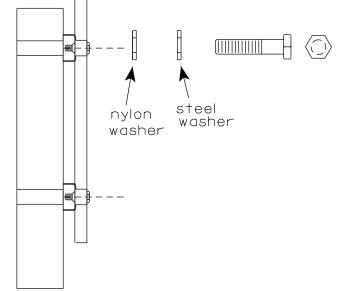


SINGLE SIGN





WASHER PLACEMENT



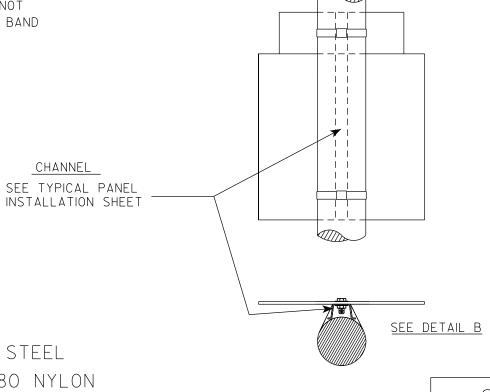
WASHERS (ALL POSTS) -

1-1/4" O.D. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

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

State Traffic Engineer DATE 6/10/19

PLATE NO. A5-9.4

Ε

HWY:

COUNTY:

PLOT DATE: 10-JUN 2019 4:10

PLOT NAME :

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

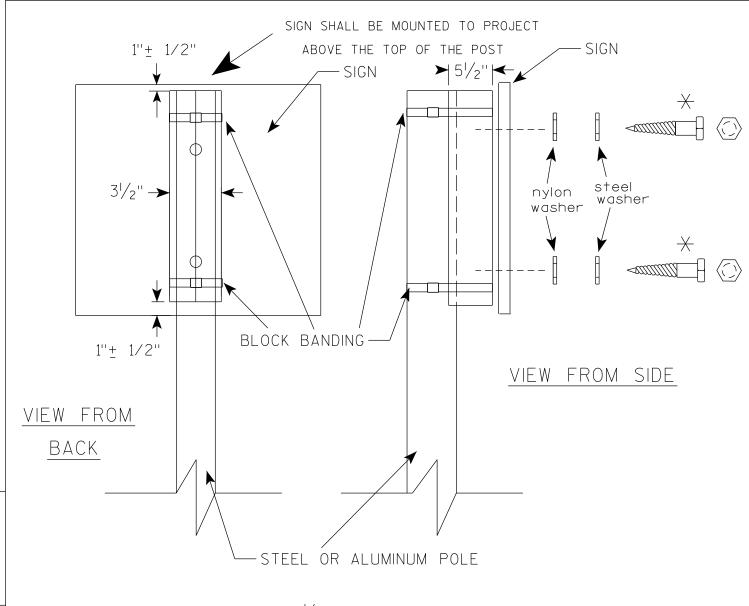
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn

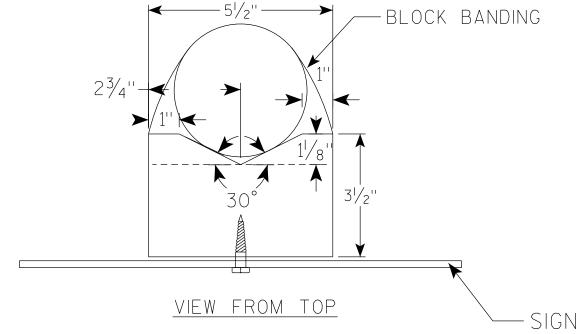
PROJECT NO:

PLOT BY: mscj9h

CHANNEL

SEE TYPICAL PANEL





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 $1^{1}/_{4}$ " O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ "
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $3/_{8}$ " 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

WISDOT/CADDS SHEET 42

NOTES

- 1. Sign is Type II See Note 6 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Top Red - Bottom Blue (See Note 6) Message - White - See Note 6

- 3. Message Series See note 5
- 4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
- 5. M1-1 Numerals D Interstate - C

M1-1A - All copy - C

6. Permanent Signs

Message - Type H Reflective

Detour or other temporary signs

Background - Reflective Message - Reflective

M1-1 M1-1A M1-1 M1-1A

INTERSTATE M1-1A

Metric equivalent for these signs are:

M1-1

SIZE	M1 - 1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

SIZE	Α .	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х	Y	Area sq. ft.	Area sq. ft.	Area m2	Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 ½	15	24	17	7 1/8								30			3.13	3.91	. 36	. 46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 ¾								45			7.03	8.79	. 81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 ½	36	25 ½	11 ¾								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 ½	11 3/4								45			7.03	8.79	. 81	1.05
PRO	DJEC ⁻	r No:						Н	WY:					COUN	ITY:														

INTERSTATE ROUTE MARKER M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 08/23/05

For State Traffic Engineer

SHEET NO:

FILE NAME : C:\Users\Projects\tr_stdplate\M11.DGN

PLOT DATE: 13-0CT-2005 14:49

PLOT BY : DITJPH PLOT NAME : PLOT SCALE: 7.947778:1.000000

NOTES

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

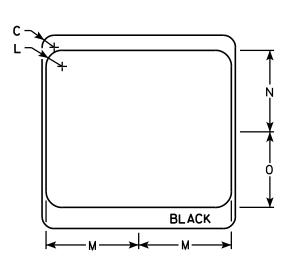
Background - White & Black - See Note 7 Message - Black

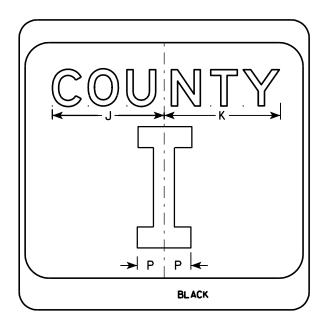
- 3. Message Series see Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Message Series E for 1 letter.

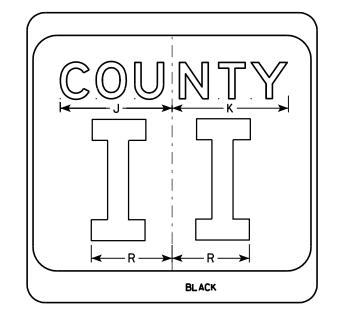
 Message Series D for 2 letters unless
 message is too big then Series C.

 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







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.
24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 %	2	11 1/2	10 1/8	9 3/8	2 1/4		6 %									4.0
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
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
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
ECT	NO.			·		Luv	V V •			·		COLIN	ITV•		·		·		·	·	·			·		
	36 36 36	24 36 36 36	24 1 ½ 36 2 ¼ 36 2 ¼ 36 2 ¼ 36 2 ¼	24 1 ½ 36 2 ¼ 36 2 ¼ 36 2 ¼ 36 2 ¼	24 1 ½ 36 2 ¼ 36 2 ¼ 36 2 ¼ 36 2 ¼ 36 2 ¼ 36 36 2 ¼ 36 36 36 36 36 36 36 36 36 36 36 36 36	24 1 ½ 10 36 2 ¼ 16 36 2 ¼ 16 36 2 ¼ 16	24 1 ½ 10 3 36 2 ¼ 16 4 36 2 ¼ 16 4 36 2 ¼ 16 4	24 1 ½ 10 3 5 ⅓ 36 2 ¼ 16 4 7 ⅙ 36 2 ¼ 16 4 7 ⅙ 36 2 ¼ 16 4 7 ⅙ 36 2 ¼ 16 4 7 ⅙	24 1 ½ 10 3 5 ⅓ 4 ⅓ 36 2 ⅓ 16 4 7 ⅙ 5 ⅓ 36 2 ⅓ 16 4 7 ⅙ 5 ⅓ 36 2 ⅓ 16 4 7 ⅙ 5 ⅙ 36 2 ⅓ 16 4 7 ⅙ 5 ⅙ 5 ⅙ 36 2 ⅓ 16 4 7 ⅙ 5 ⅙ 5 ⅙ 5 ⅙ 5 ⅙ 5 ⅙ 5 ⅙ 5 ⅙ 5 ⅙ 5 ⅙	24 1 ½ 10 3 5 ⅓ 4 ⅓ 9 ⅓ 36 2 ⅓ 16 4 7 ⅙ 5 ⅙ 12 ⅓ 36 2 ⅓ 16 4 7 ⅙ 5 ⅙ 12 ⅓ 36 2 ⅓ 16 4 7 ⅙ 5 ⅙ 12 ⅓ 36 2 ⅓ 16 4 7 ⅙ 5 ⅙ 12 ⅓	24 1 ½ 10 3 5 ½ 4 ½ 9 ½ 12 ½ 13 36 2 ¼ 16 4 7 ½ 5 ½ 12 ¼ 12 ½ 36 2 ¼ 16 4 7 ½ 5 ½ 12 ¼ 12 ½ 36 2 ¼ 16 4 7 ½ 5 ½ 12 ¼ 12 ½ 36 36 2 ¼ 16 4 7 ½ 5 ½ 12 ¼ 12 ½ 36 36 2 ¼ 36 36 3 ½ ½ 36 36 3 ½ 36 3 ½ 36 36 3 ½ 36 36 3 ½ 36 36 3 ½ 36 36 3 ½ 36 36 3 ½ 36 36 36 3 ½ 36 36 36 36 36 36 36 36 36 36 36 36 36	24 1 ½ 10 3 5 ⅓ 4 ⅓ 9 ⅓ 9 ⅓ 2 36 2 ⅓ 16 4 7 ⅙ 5 ⅙ 12 ⅓ 12 ⅓ 3 36 2 ⅓ 16 4 7 ⅙ 5 ⅙ 12 ⅓ 12 ⅓ 3 36 2 ⅓ 16 4 7 ⅙ 5 ⅙ 12 ⅓ 12 ⅓ 3 36 2 ⅓ 16 4 7 ⅙ 5 ⅙ 12 ⅓ 3	24 1 ½ 10 3 5 ½ 4 ½ 9 ½ 2 11 ½ 36 2 ¼ 16 4 7 ½ 5 5 ½ 12 ¼ 12 ½ 3 17 ⅓ 36 2 ¼ 16 4 7 ½ 5 5 ½ 12 ¼ 12 ⅓ 3 17 ⅓ 36 2 ¼ 16 4 7 ½ 5 ½ 12 ¼ 12 ⅓ 3 17 ⅓ 36 2 ¼ 16 4 7 ½ 5 ½ 12 ¼ 12 ⅓ 3 17 ⅓ 36 2 ¼ 16 4 7 ½ 5 ½ 12 ¼ 12 ⅓ 3 17 ⅓	24	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 36 2 1/4 16 4 7 5/8 5 5/8 12 1/4 12 7/8 3 17 1/8 15 1/4 14 36 2 1/4 16 4 7 5/8 5 5/8 12 1/4 12 7/8 3 17 1/8 15 1/4 14 36 2 1/4 16 4 7 5/8 5 5/8 12 1/4 12 7/8 3 17 1/8 15 1/4 14	24	24	24	24	24	24	24	24	24	24 1 ½ 10 3 5 ⅓ 4 ⅓ 9 ⅓ 9 ⅓ 2 11 ½ 10 ⅓ 9 ⅓ 2 ⅓ 6 ⅓ 13 ⅓ 6 ⅓ 3 17 ⅓ 15 ⅓ 14 14 3 ⅓ 10 3 10 3 16 4 7 ⅙ 5 ⅓ 12 ⅓ 12 ⅓ 3 17 ⅓ 15 ⅓ 14 14 3 ⅓ 10 3 10 3 10 3 10 3 10 3 10 3 10 3	24 1 ½ 10 3 5 ½ 4 ½ 9 ½ 2 11 ½ 10 ½ 9 ¾ 2 ¼ 6 ½ 10 ½ 3 3 3 3 8 10 3 5 ½ 4 7 ½ 5 ½ 12 ¼ 12 ½ 3 17 ½ 15 ¼ 14 3 ¾ 10 3 ½ 10 5 ½ 10 ½ 3 ½ 3 17 ½ 15 ¼ 14 3 ¾ 10 3 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10 5 ½ 10

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Forstate Traffic Engineer

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

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M15A.DGN

BLACK

M1-5A

PLOT DATE: 29-SEP-2011 11:25

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 5.959043:1.000000

WISDOT/CADDS SHEET 42

NOTES

- 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 - Yellow

Message - Blue MR2-1 Background - Brown

	G (<u> </u> 	 Y
B	F	H		→ Z
	-	•	Å	
			MB2-1 MK2-1 MN2-1	

MR2-1

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	٥	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	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 R Rauch f_{or} State Traffic Engineer

DATE 10/15/15

PLATE NO. M2-1.12 Ε SHEET NO:

PINT RY . \$\$ plotuser \$\$ PINT NAME :

FILE NAME . C.\CAFfiles\Projects\tr stdplote\M21 DCN

PROJECT NO:

M2-1

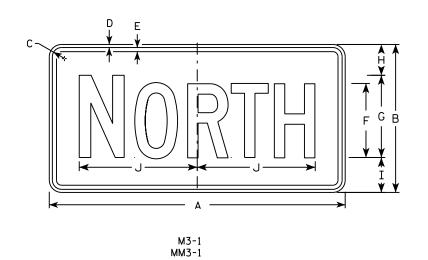
MM2-1

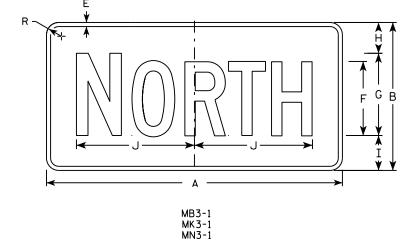
MP2-1

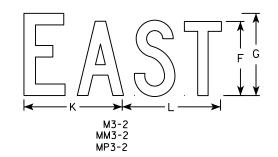
HWY:

PLOT DATE . 01-DEC-2015 17:54

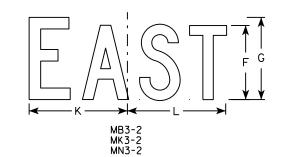
PLOT SCALE • 4 864603•1 000000

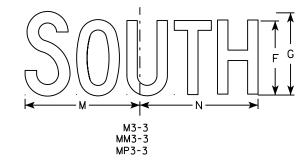


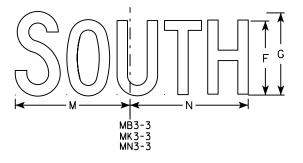


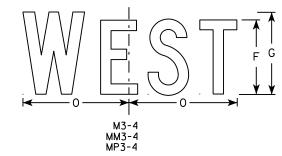


MP3-1

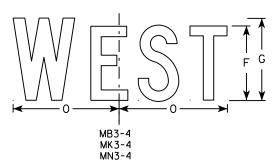








HWY:



NOTES

- 1. All Signs 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. M3-1 thru M3-4 Background - White Message - Black

MB3-1 thru MB3-4 Background - Blue

Message - White

MK3-1 thru MK3-4 Background - Green

Message - White

MM3-1 thru MM3-4 Background - White

Message - Green

MN3-1 thru MN3-4 Background - Brown

Message - White

MP3-1 thru MP3-4 Background - White

Message - Blue

6. Note the first letter of each direction is larger than the remainder of the message.

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

PROVED Matthe & Rame

DATE 10/15/15 PLATE NO. M3-1.14

SHEET NO:

Ε

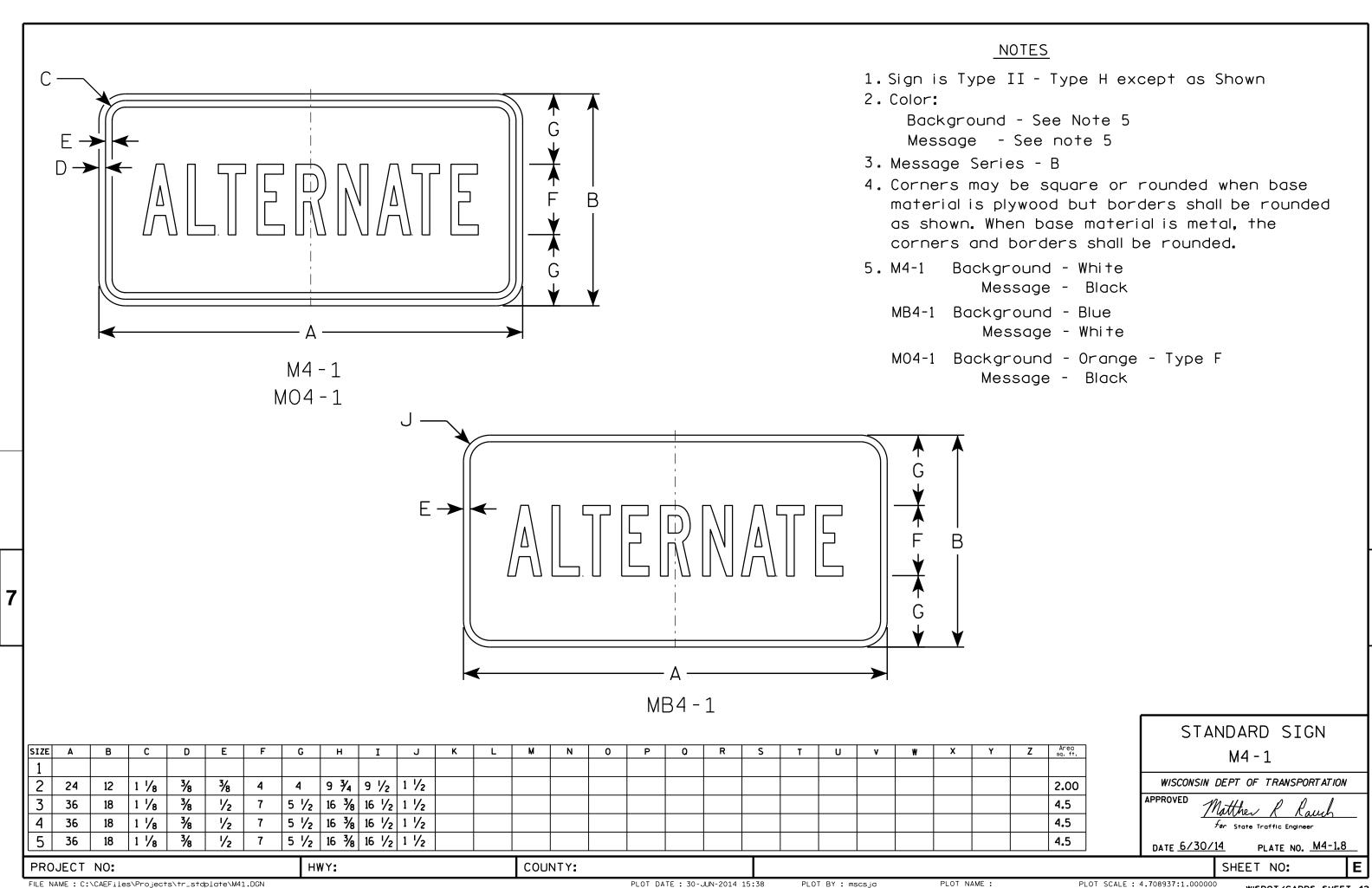
PROJECT NO:

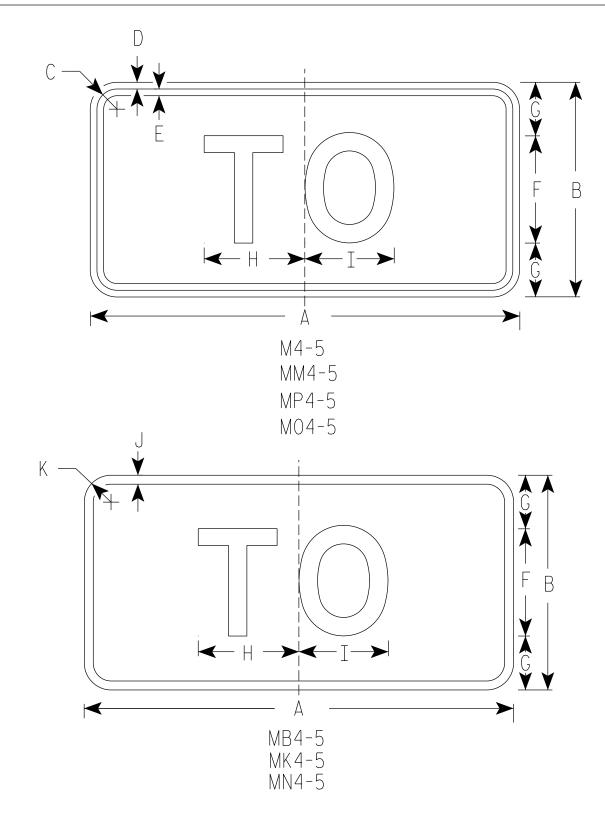
FILE NAME · C·\CAFfiles\Projects\tr stdplote\M31 DCN

PLOT DATE . 01-DEC-2015 17:54

PLOT RY . \$\$ plotuser \$\$ PLOT NAMF :

PLOT SCALE . 11 675051.1 000000





- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - See note 5 Message - See note 5

- 3. Message Series E
- 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. M4-5 Background White

Message - Black

MB4-5 Background - Blue

Message - White

MK4-5 Background - Green

Message - White

MM4-5 Background - White

Message - Green

MN4-5 Background - Brown

Message - White

MP4-5 Background - White

Message - Blue

MO4-5 Background - Orange Type F Reflective

Message – Black

SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

COUNTY:

STANDARD SIGN M4-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
Forstate Traffic Engineer

DATE <u>03/7/19</u>

PLATE NO. <u>M4-5.9</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\M45.DGN

HWY:

PROJECT NO:

PLOT DATE: 07-MAR-2019

PLOT BY : dotc4c

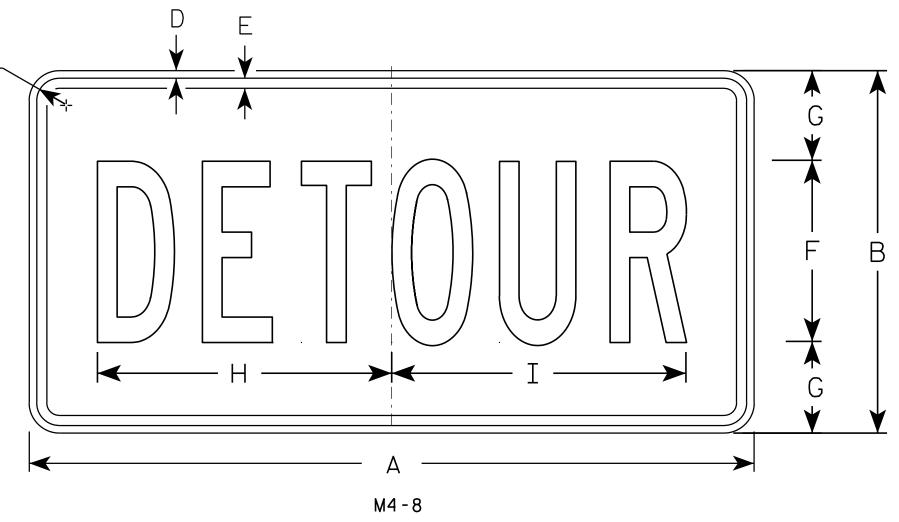
PLOT NAME :

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

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

Background - Orange Message - Black

- 3. Message Series 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.



С D Ε 1 1/8 3/8 3/8 24 10 10 1/4 2.0 3 36 1 1/8 3/8 4 1/2 14 5/8 14 1/2 4.5 1/2 4

COUNTY:

STANDARD SIGN M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

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

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.

 $D \longrightarrow$ Н M4-8A

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	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 3/4																	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 -

OVED Matther R Rain

SHEET NO:

DATE 3/9/11

For State Traffic Engineer

/11 PLATE NO. M4-8A.2

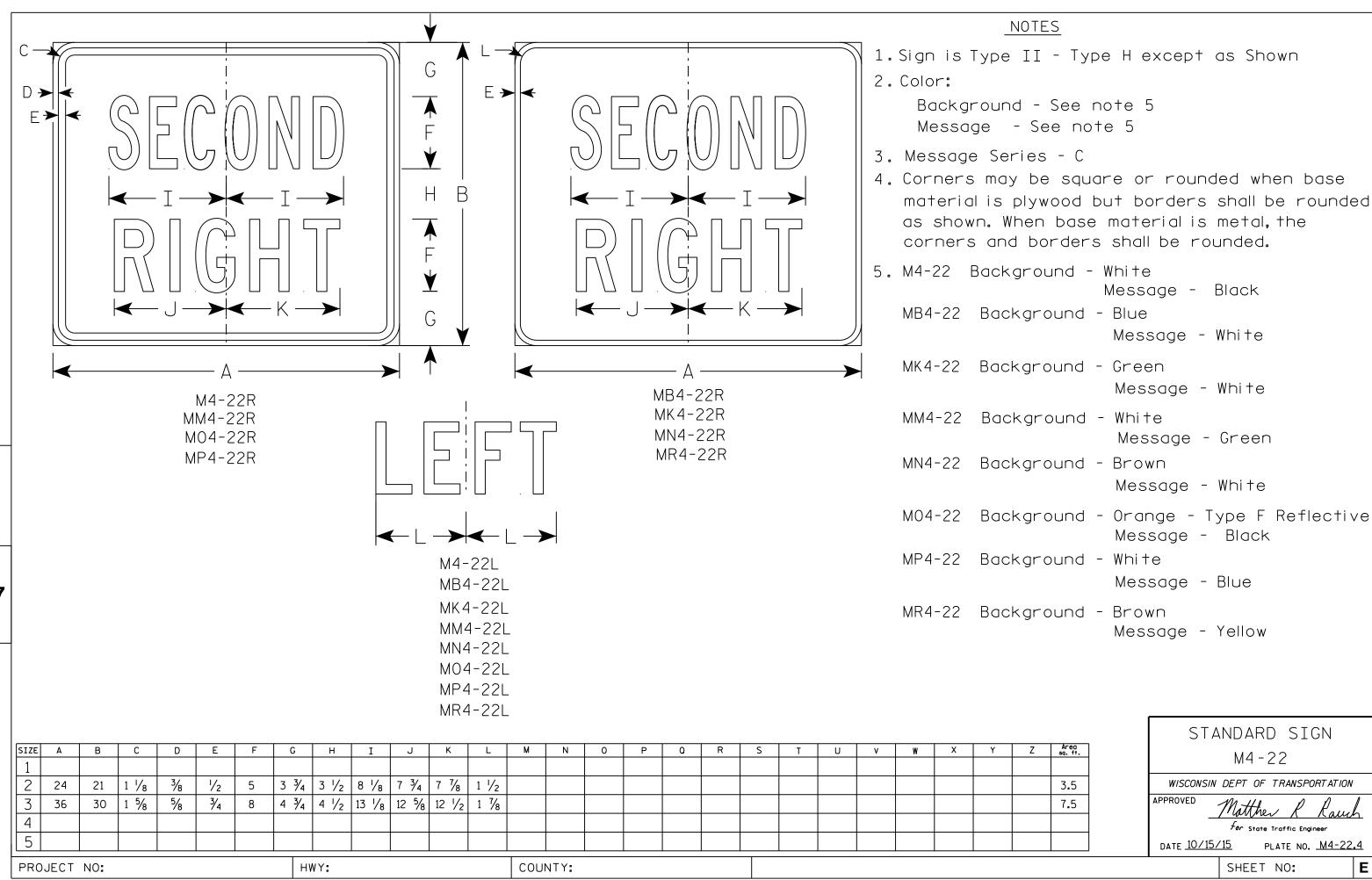
cci9h PLOT NAME: PLOT SCALE: 3

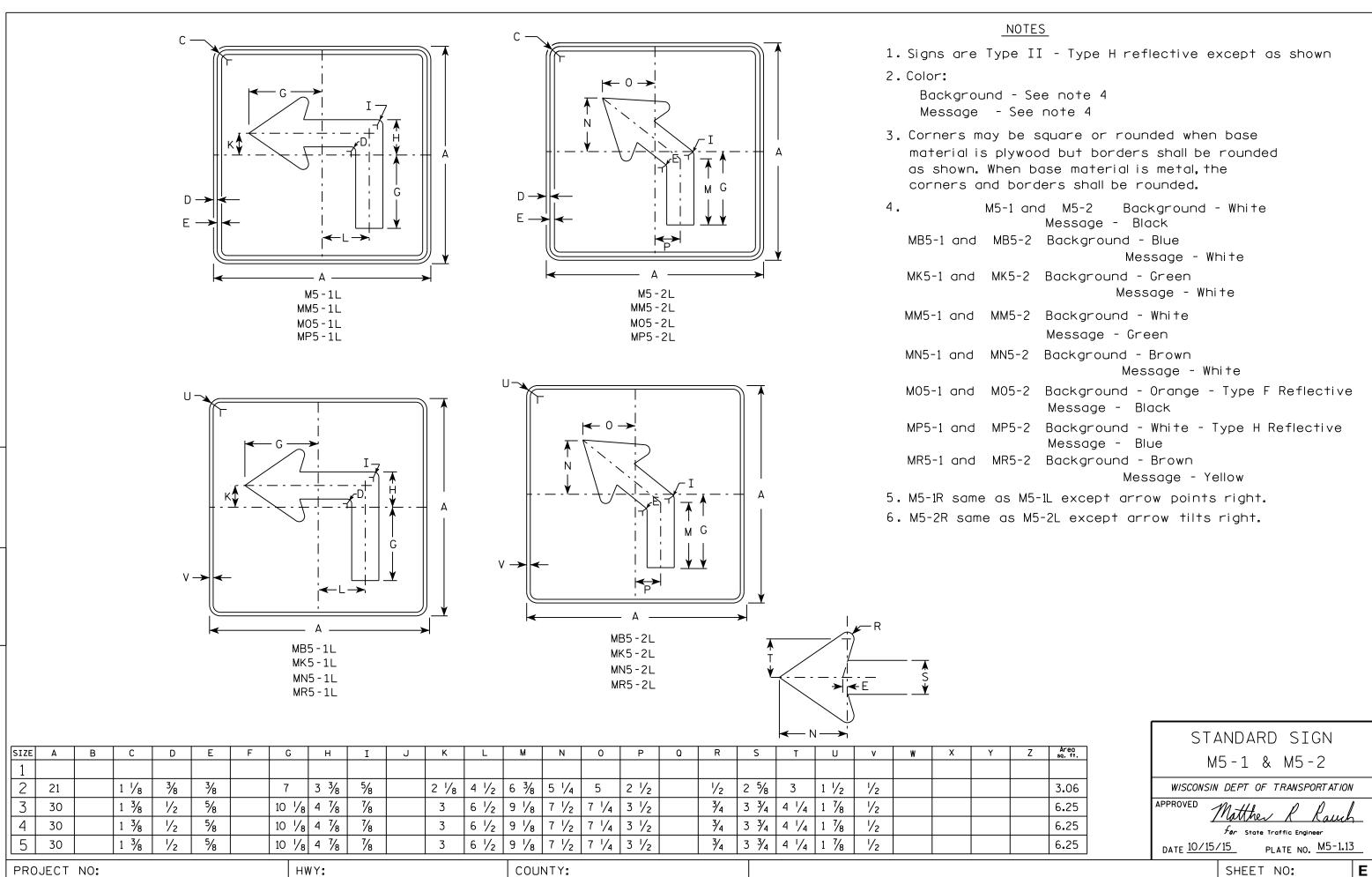
HWY:

PROJECT NO:

7

-





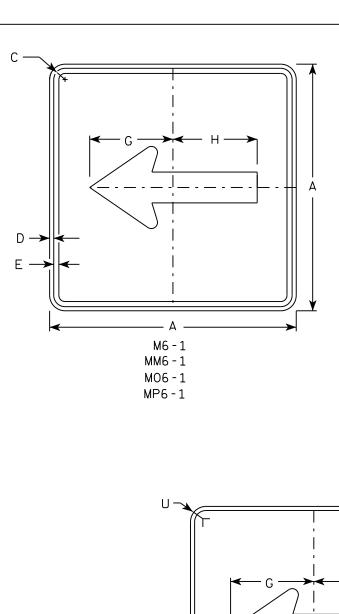
FILE NAME . C.\CAFfiles\Projects\tr stdolote\M51 DCN

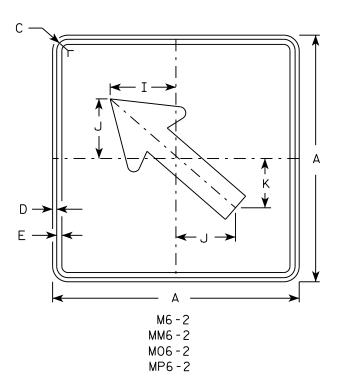
PLOT DATE . 01-DEC-2015 18:07

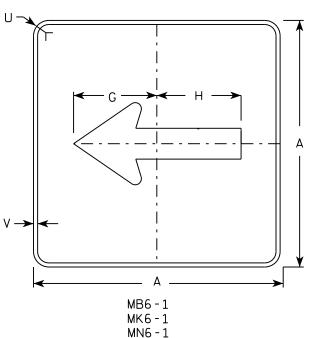
PINT RY . \$\$ DIOTUSET \$\$ PINT NAMF :

PLOT SCALE . 11 675051.1 000000

311LL 1 110.

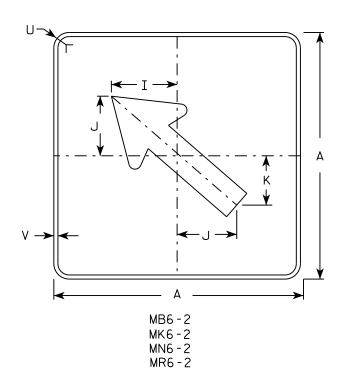






MR6-1

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

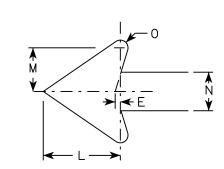
Message - Black

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																											
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

SHEET NO:

APPROVED

DATE 10/15/15

PLATE NO. M6-1.15 Ε

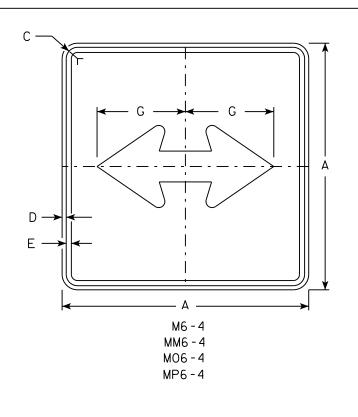
FILE NAME . C.\CAFfiles\Projects\tr stdblote\M61 DGN

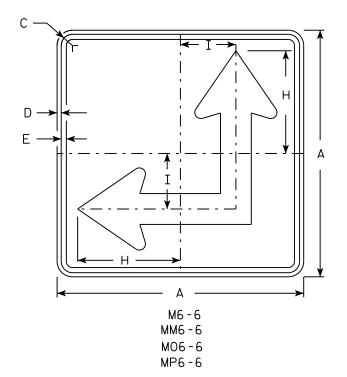
PROJECT NO:

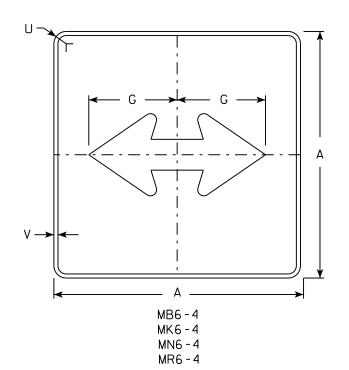
PLOT DATE . 01-DEC-2015 17:57

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

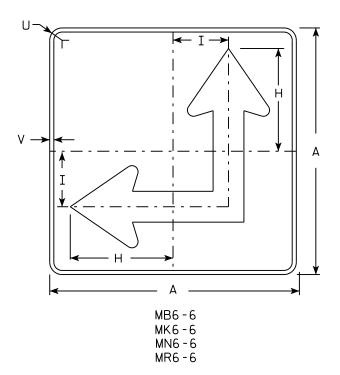
PLOT SCALE . 11 675051.1 000000







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

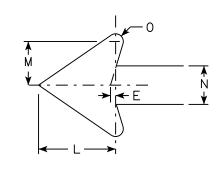
MP6-4 and MP6-6 Background - White

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

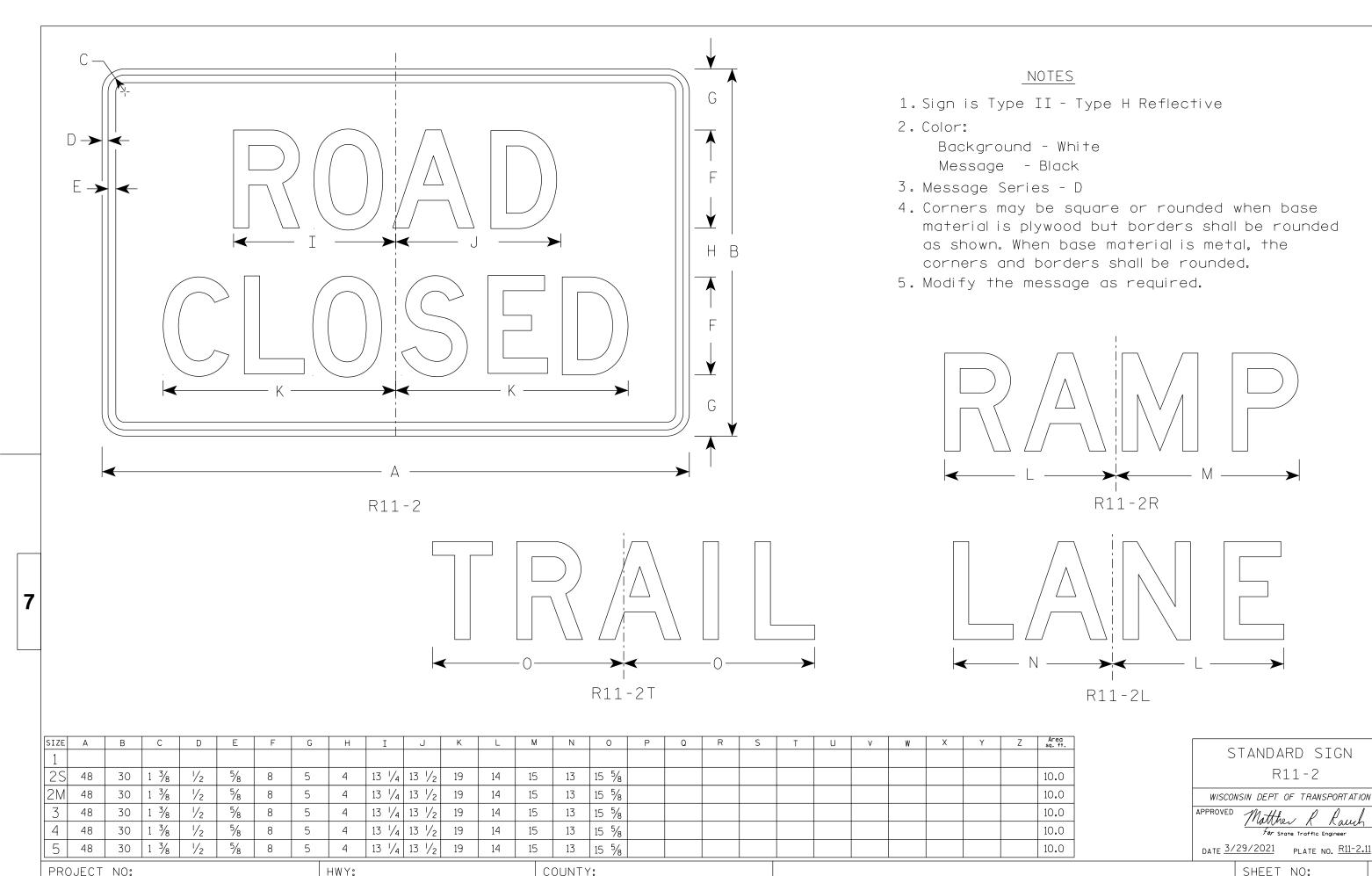
FILE NAME . C.\CAFfiles\Projects\tr stdolate\M64 DCN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17.58

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

PLOT SCALE . 11 675051.1 000000



- 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.

C	<u> </u>
	$ \begin{array}{c c} G \\ \hline F \\ \hline B \\ \hline G \\ \hline G \\ \hline \end{array} $
← A — →	1
R11-2B	

SIZE A Areo sq. ft. В С D G н I | J | K 0 0 S 1/2 4 19 3/4 9 3/4 9 1/8 5/8 48 30 | 1 3/8 | 10.0 2M 5/8 48 30 1 3/8 1/2 8 5 19 34 9 34 9 38 | 10.0 3 5/8 1 3/8 1/2 19 3/4 9 3/4 9 1/8 48 30 5 10.0 5/8 19 3/4 9 3/4 9 1/8 4 1 3/8 1/2 48 30 8 5 10.0 5 19 3/4 9 3/4 9 1/8 1 3/8 1/2 5/8 48 30 5 10.0

STANDARD SIGN R11-2B

WISCONSIN DEPT OF TRANSPORTATION

Matthew R Rauch

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

SHEET NO:

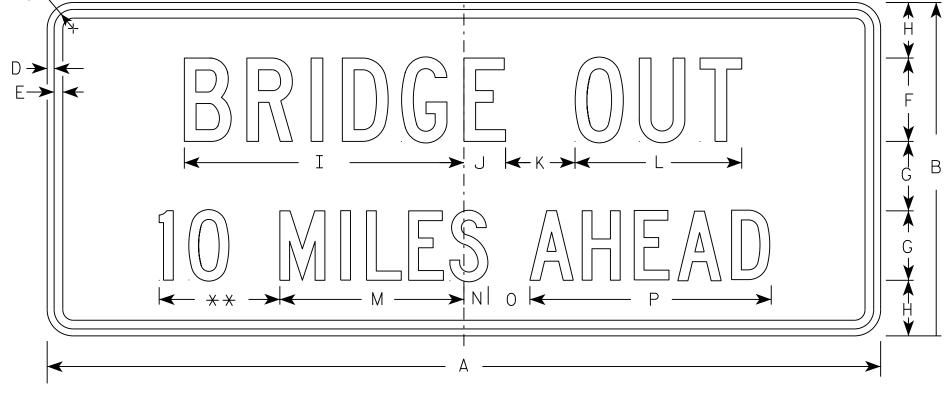
PROJECT NO:



- 1. Sign is Type II Type H Reflective
- 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 to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3C

** See Note 5

1/4 MILE AND

SIZE	Α	В	С	D	E	F	G	Н	I	٦	K	L	М	N	0	Р	٥	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	36	15	1 3/8	1/2	5/8	4	3	2 1/2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 3/4		7 1/8									3 . 75
2S	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 1/8									10.0
2M	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 1/8									10.0
3																											
4																											
5																											

STANDARD SIGN R11-3C

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE <u>7/28/16</u>

PLATE NO. R11-3C.3

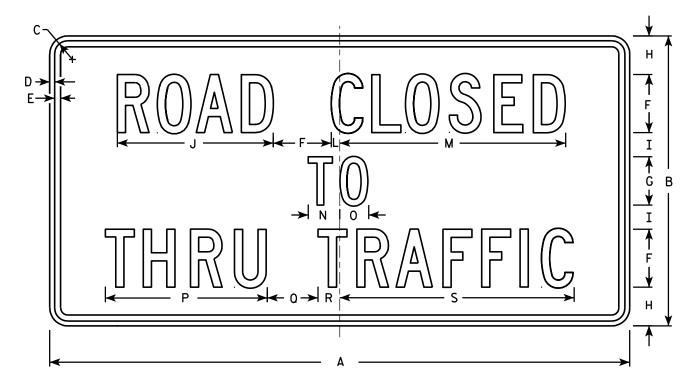
PLOT BY: \$\$...plotuser...\$\$

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 - 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.



R11-4

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		⅓	23 ¾	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7∕8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

COUNTY:

STANDARD SIGN R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 PLATE NO. R11-4.3

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R114.DGN

PROJECT NO:

HWY:

PLOT DATE: 01-APR-2011 14:11

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 9.931739:1.000000

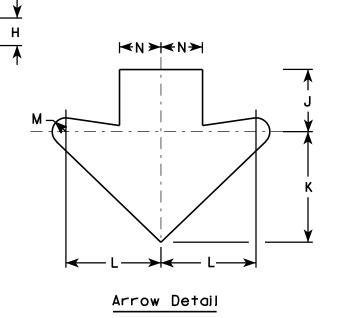
WISDOT/CADDS SHEET 42



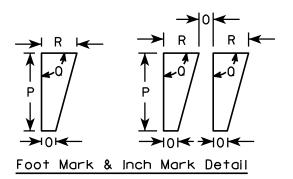
- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

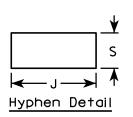
Background - Yellow Message - Black

- 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. Substitute appropriate numerals and optically adjust spacing of numerals, hyphen, foot & inch marks to achieve proper balance.



PLOT BY: mscj9h





SIZE	Α	В	С	D	E	F	G	н	I	7	K	L	M	N	0	P	0	R	S	T	U	V	W	X	Y	Z	Area sq. ft
1	30		1 3/8	1/2	5/8		5	1 %	3 %	3 3/4	6 %	5 ¾	3/4	2 1/2	1/2	2 1/4	90°	1	1 %								6.25
25	36		1 %	5/8	3/4		6	2	4	4 1/2	8	6 %	1	3	1/2	2 3/4	90°	1 1/4	1 %								9.00
2M	36		1 %	5/8	3/4		6	2	4	4 1/2	8	6 %	1	3	1/2	2 3/4	90°	1 1/4	1 %								9.00
3	36		1 %	5/8	3/4		6	2	4	4 1/2	8	6 %	1	3	1/2	2 3/4	90°	1 1/4	1 %								9.00
4	36		1 %	5/8	3/4		6	2	4	4 1/2	8	6 %	1	3	1/2	2 3/4	90°	1 1/4	1 %								9.00
5	48		2 1/4	3/4	1		8	2 1/8	5 1/2	5 %	10 %	9 1/4	1 3/8	4	5/8	3 %	90°	1 5/8	2 1/2								16.0

COUNTY:

W12-2

HWY:

STANDARD SIGN
W12-2

WISCONSIN DEPT OF TRANSPORTATION

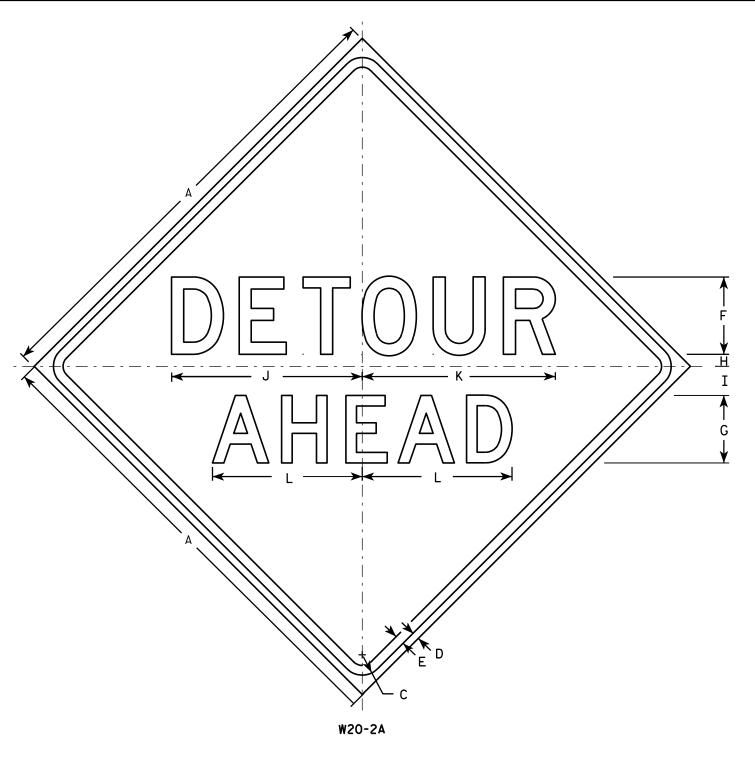
APPROVED

Matthew R Rauch

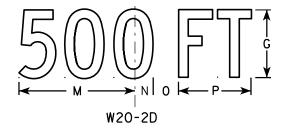
For State Traffic Engineer
DATE 3/13/13 PLATE NO. W12-2.9

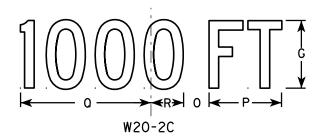
SHEET NO:

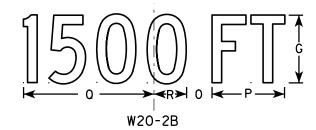
PROJECT NO:

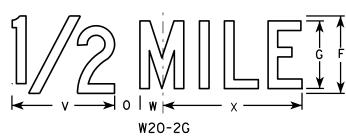


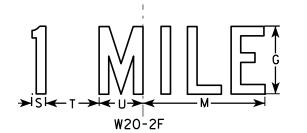
HWY:











NOTES

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

Background - Orange Message - Black

- 3. Message Series See note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Line 1 is Series D. Line 2 is Series D for AHEAD and Series C for all other distances.

s	IZE	Α	В	С	D	Ε	F	G	н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	v	W	X	Υ	Z	Areg sq. ft.
	1	36		1 %	5/8	3/4	6	5	1	2 1/4	14 ¾	15	11 5/8	9	1 3/8	1 1/8	5 %	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 ¾			9.0
2	25	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
2	2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
	3	48		2 1/4	¾	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 %	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
	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 %	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

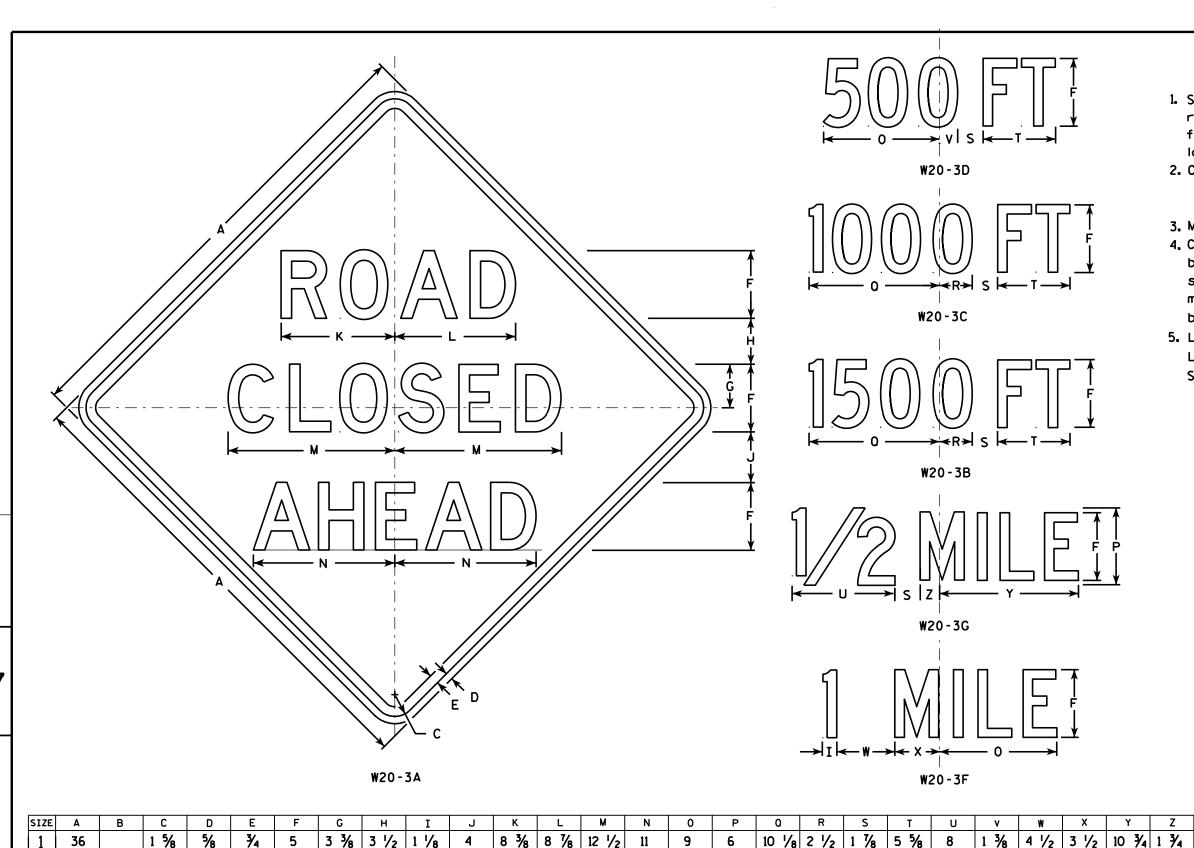
DATE 3/18/11 PLATE NO. W20-2.6

PLOT DATE: 18-MAR-2011 10:00

PLOT NAME :

SHEET NO: PLOT SCALE: 9.931739:1.000000

PROJECT NO:



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

4 1/2 4 3/4 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 |

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

COUNTY:

NOTES

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

Background - Orange Message - Black

- 3. Message Series see note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1 and 2 are Series D. Line 3 is Series D for AHEAD and Series C for all other distances.

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 4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0 4 5/8 14 3/8 2 3/8 16.0

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

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 3/18/11 PLATE NO. W20-3.7

SHEET NO: PLOT NAME : PLOT BY: mscj9h

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN

2 1/4

2M

5

48

48

48

48

PROJECT NO:

3/4

3/4

3/4

3/4

3/4

HWY:

PLOT DATE: 18-MAR-2011 12:08

13 1/2 3 3/8 2 5/8

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

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

10 % 1 %

7 1/2

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

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

PLOT SCALE: 9.931739:1.000000

WISDOT/CADDS SHEET 42

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals to the nearest quarter mile and optically adjust spacing to achieve proper balance.

W057-52

HWY:

* See note 5

SIZE	Α	В	С	D	E	F	G	Н	I	٦	K	J	М	N	0	Ρ	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 %	10 %	11 3/8	2	12													6.0
2S	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
2M	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16													12.0
3	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
5	48	36	1 3/8	1/2	5/8	8	7	6	6 %	19 ½	14	15	2 3/4	16 3/8													12.0

COUNTY:

STANDARD SIGN W057-52

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

Matther R Rauch

DATE 3/21/17

PLATE NO. W057-52.2

....

FILE NAME: C:\CAEfiles\Projects\tr_stdplate\W05752.DGN

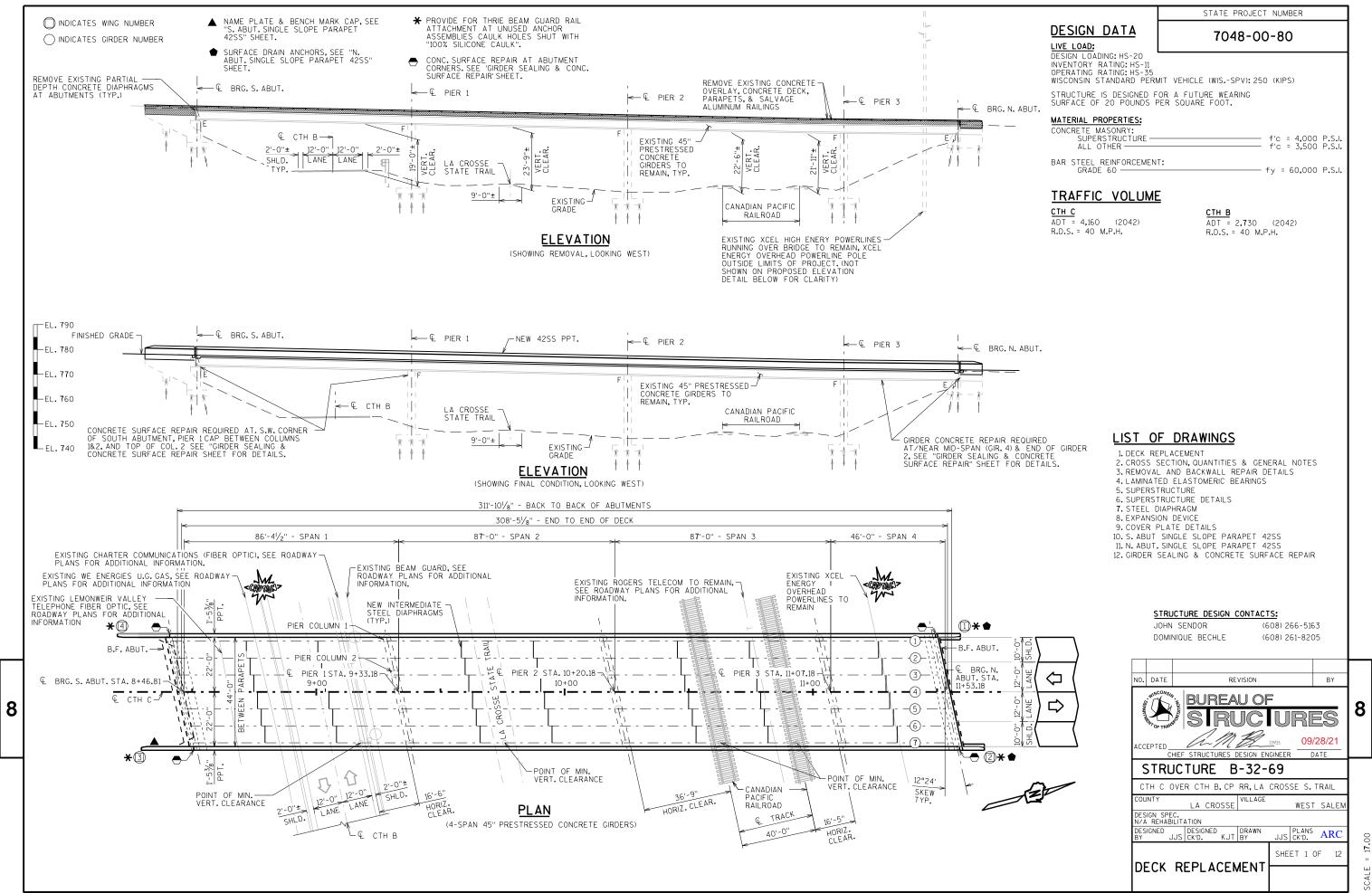
PROJECT NO:

PLOT DATE: 21-MAR-2017 08:53

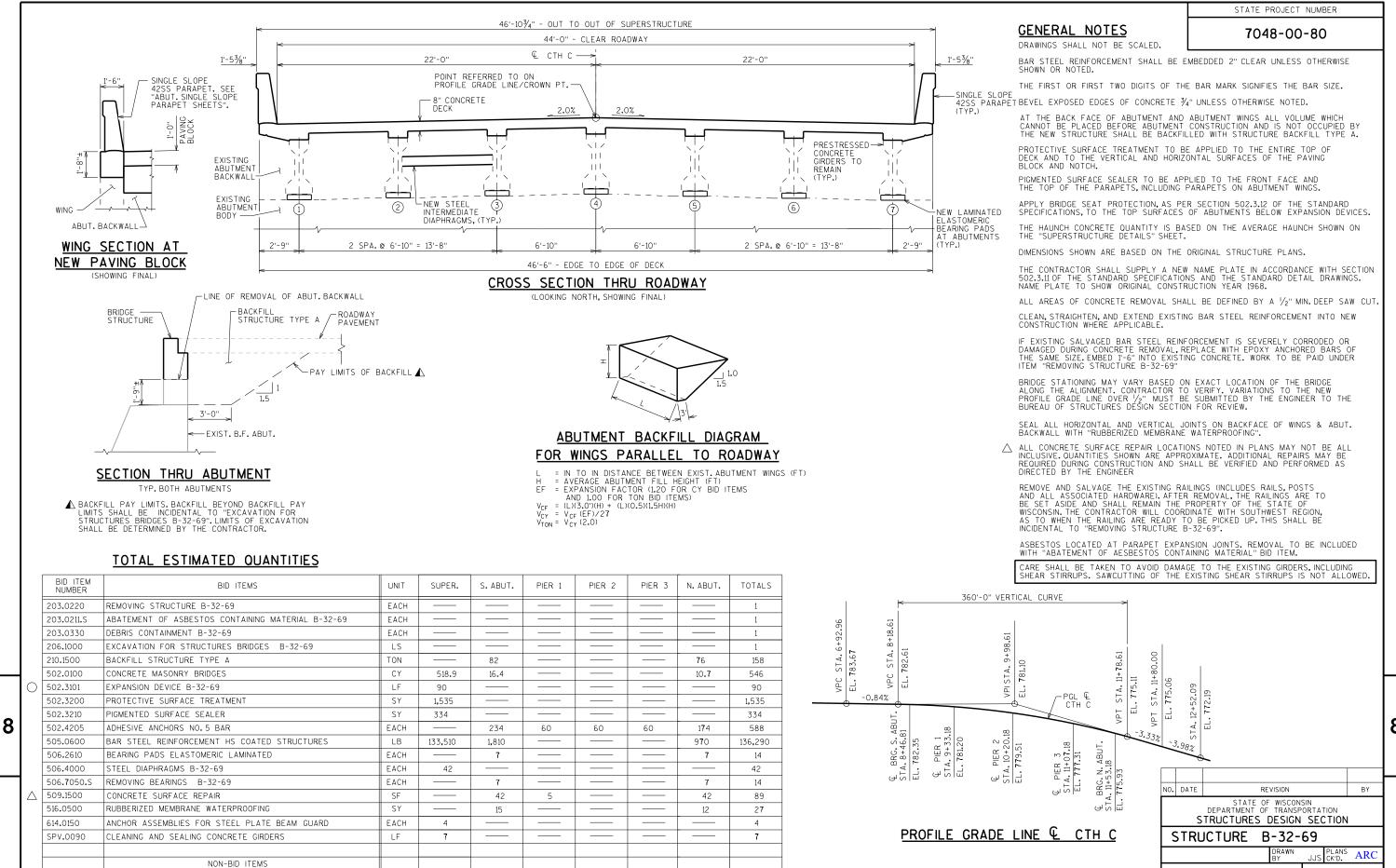
PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: 8.139174:1.000000

WISDOT/CADDS SHEET 42



DATE: SEPT. 2021



LS

BRIDGE SEAT PROTECTION

LINE AT EACH ABUTMENT.

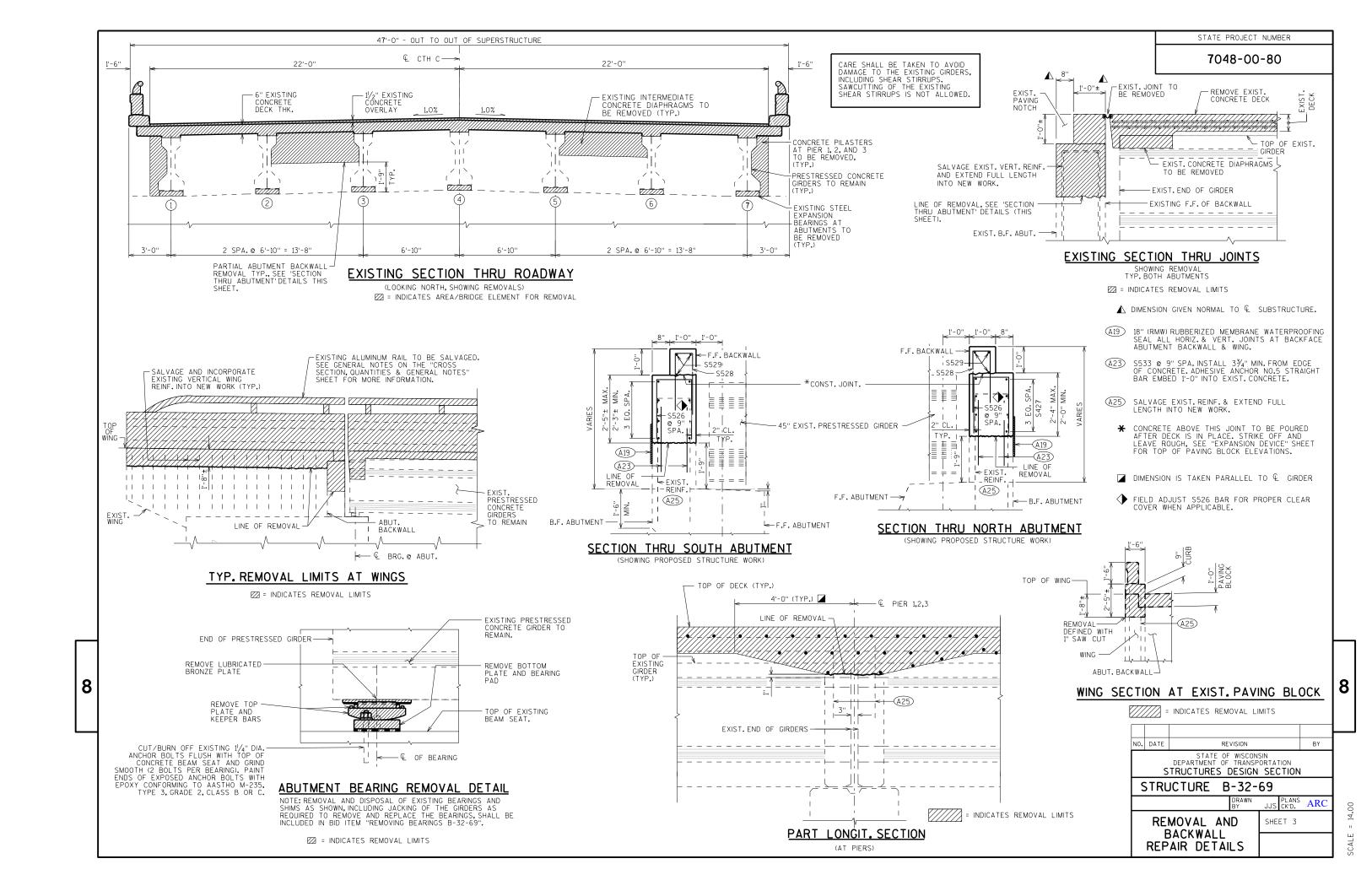
O QUANTITY IS BASED ON THE DISTANCE FROM GUTTER LINE TO GUTTER

SHEET 2

CROSS SECTION,

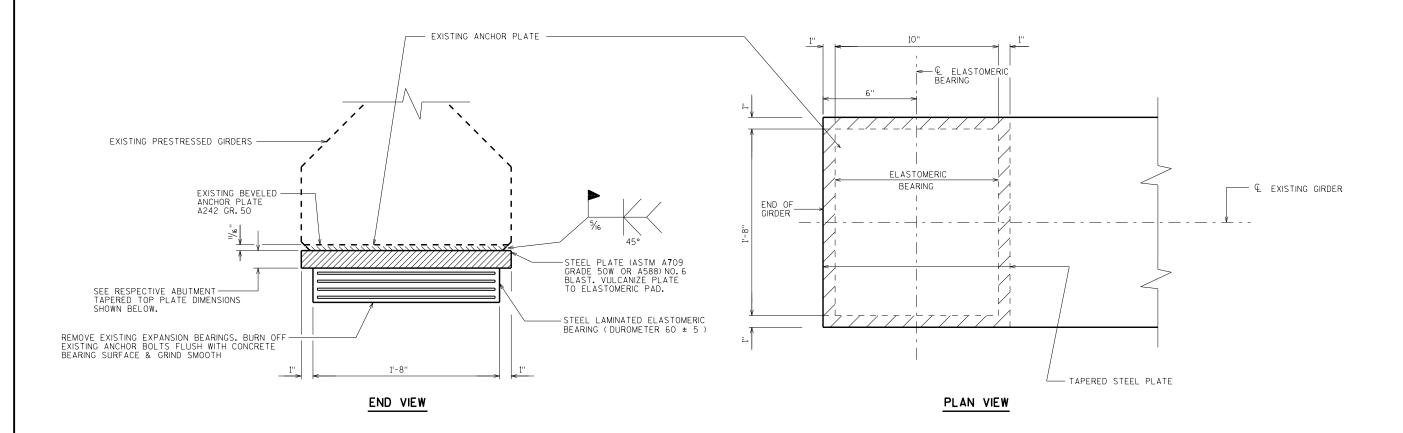
QUANTITIES &

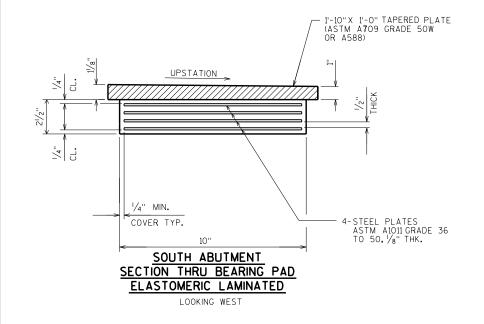
GENERAL NOTES

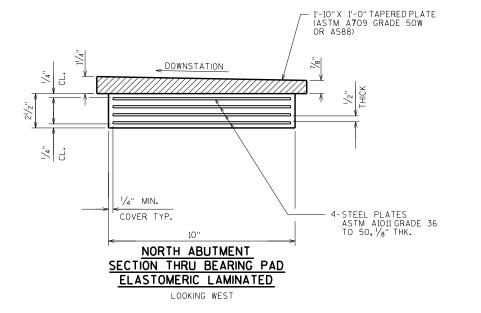


STATE PROJECT NUMBER

7048-00-80







<u>NOTES</u>

BEARING SHALL NOT BE PLACED AT A TEMPERATURE GREATER THAN 85° F.

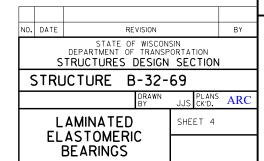
ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL MATERIAL USED FOR BEARINGS SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "BEARING PADS ELASTOMERIC LAMINATED", EACH.

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL.

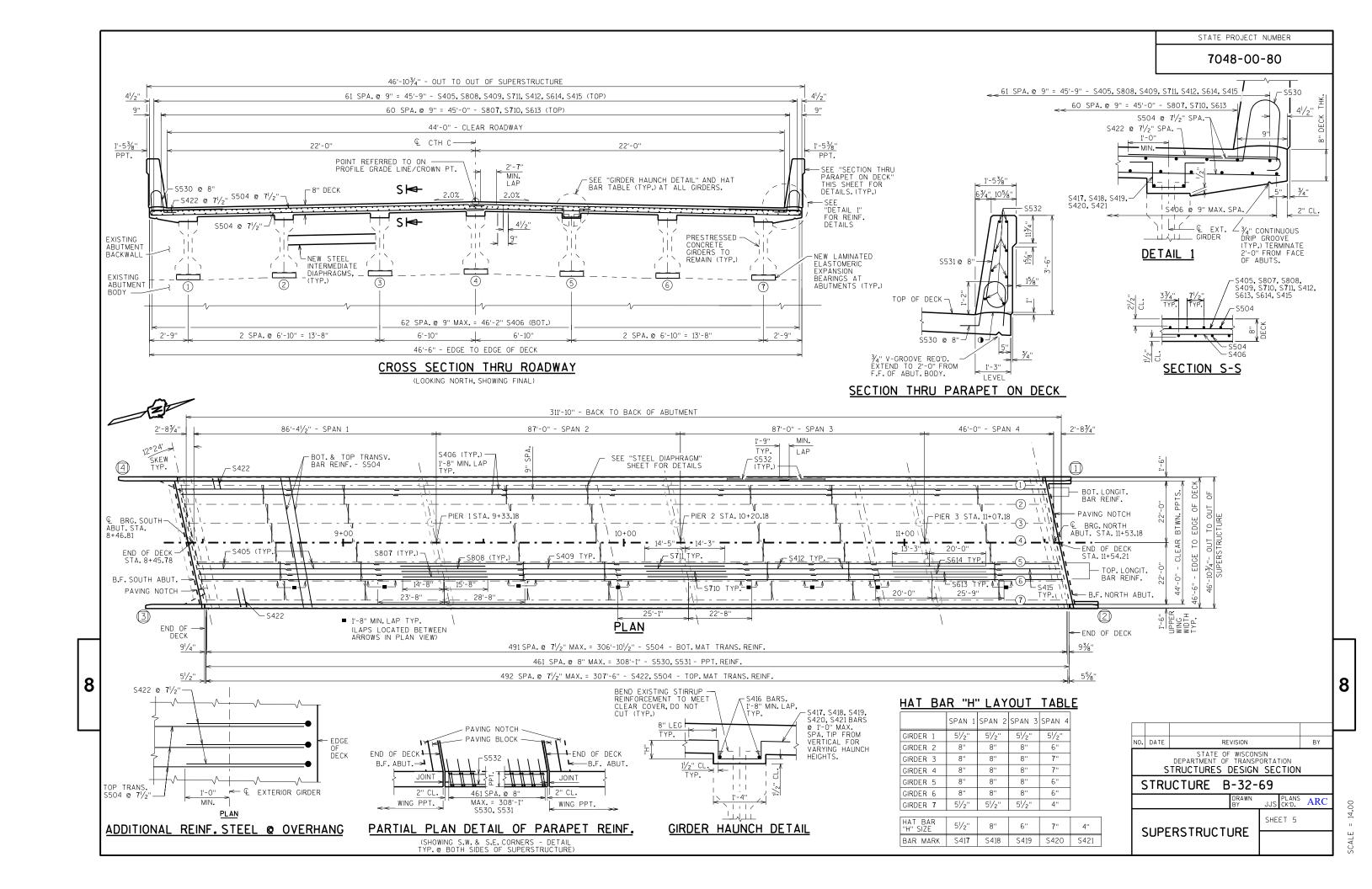
WELDING PROCEDURES SHALL BE ESTABLISHED BY THE CONTRACTOR TO RESTRICT THE MAXIMUM TEMPERATURE REACHED BY SURFACES IN CONTACT WITH ELASTOMER TO 200°F (93°C). TEMPERATURES SHALL BE CONTROLLED BY TEMPERATURE INDICATING WAX PENCILS OR OTHER SUITABLE MEANS APPROVED BY THE ENGINEER."

TOP STEEL PLATE MAY NOT BE OMITTED.



8

SCALE = 0.33



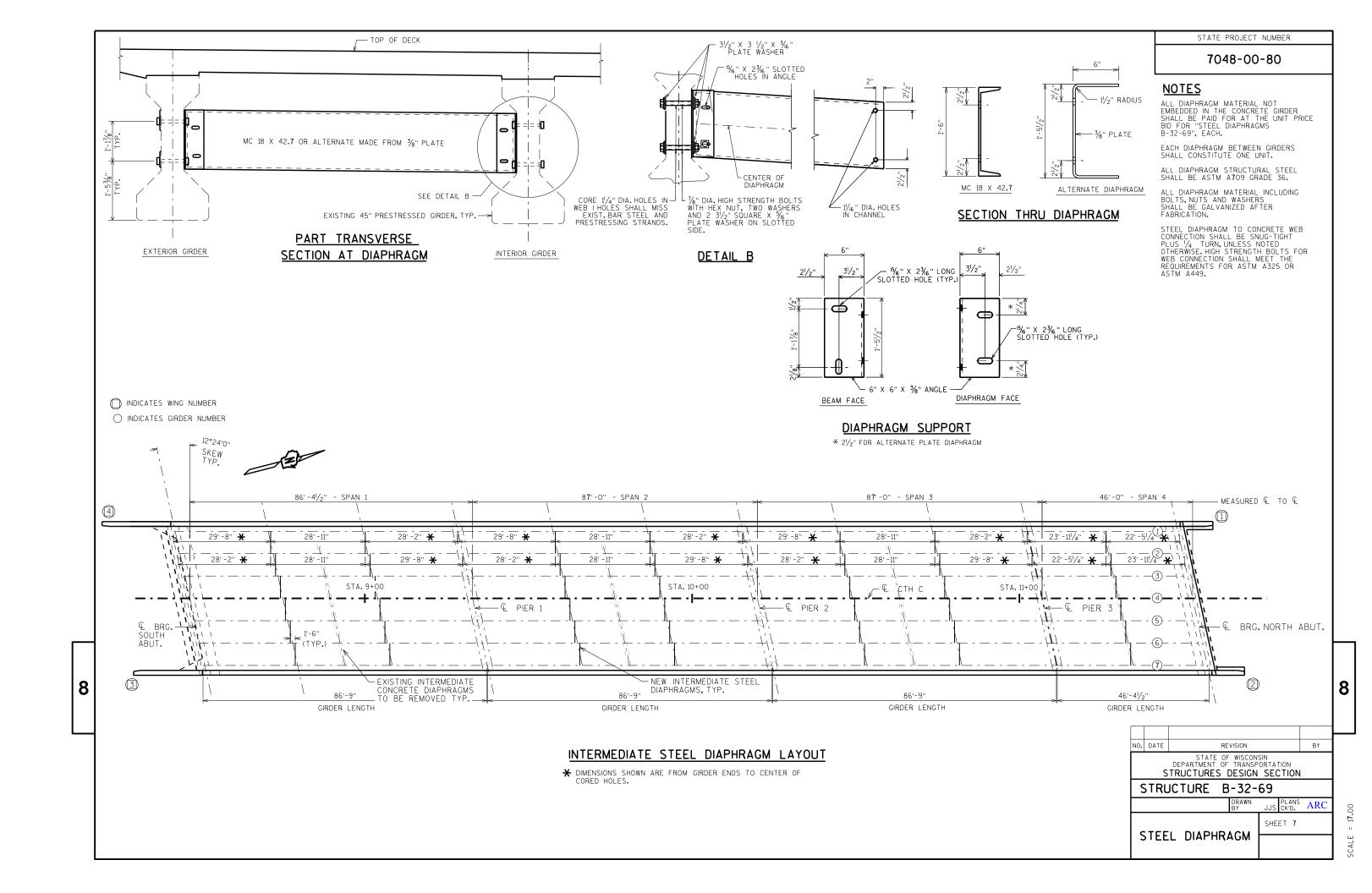
STATE PROJECT NUMBER TOP OF DECK ELEVATIONS 7048-00-80 . ABUT. 1/10 PT 2/10 PT 3/10 PT. 4/10 PT 5/10 PT 6/10 PT 7/10 PT 8/10 PT 9/10 PT. PIER 1 1/10 PT. 2/10 PT 3/10 PT. 4/10 PT. 5/10 PT. 6/10 PT 7/10 PT. 8/10 PT. 9/10 PT. PIER 2 WEST EOD 781.96 781.87 781.77 781.67 781.57 781.46 **7**81**.**34 **7**81**.**22 781.10 780.97 780.83 780.69 **7**80**.**55 780.39 780.24 780.07 779.91 779.73 779.56 779.37 779.18 NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE BILL OF BARS GIRDER 781.98 781.89 781.70 781.48 781.37 781.25 780,42 780,26 780,10 779,21 GIRDER 2 **7**82.10 **7**82.01 **7**81.92 781.82 781.71 **7**81.60 781.49 781.36 **7**81**.**24 781.11 780.97 780.83 780.68 **7**80.53 780.37 **7**80.21 **7**80**.**04 779.86 779.68 779.50 779.31 RΔR NΩ ENGTH LOCATION REQ'D. 779.41 GIRDER 3 **7**82**.**22 782.13 782.04 781.94 781.83 781.72 781.60 781.48 781.35 781.22 781.08 780.94 780.79 780.64 780.48 780.31 780.14 779.97 779.79 779.60 S501 PIER 1,2,3 VERT. (A23) 180 2'-11" GIRDER 4/CRWN PT 782.35 782.25 782.16 782.06 **7**81.95 781.84 781.72 781.60 781.47 781.33 781.20 781.05 780.90 780.75 780.59 780.42 780.25 780.08 779.89 779.71 779 52 S402 X 36 4'-9" PIER 1,2,3 HORIZ. GIRDER 782.19 782.10 782.00 781.90 781.79 781.68 781.56 781.44 781.31 781.17 781.03 780.89 780.74 780.58 780.42 780.26 780.08 779.91 779.73 779.54 779.35 NOT USED 779.74 GIRDER 6 782.04 **7**81**.**95 781.85 781.75 781.64 **7**81**.**52 **7**81**.**40 781.28 **7**81.15 781.01 780.87 780.73 **7**80**.**58 **7**80.42 780.26 780.09 779.92 779.56 779.37 779.18 TRANSVERSE STEEL TOP & BOT. S504 1970 GIRDER 7 781.89 781.79 781.69 781.59 781.48 781.36 781.24 **7**81.12 780.99 **7**80**.**85 780.71 780.56 780.41 780.26 780.09 779.92 779.75 779.57 779.39 779.20 779.01 S405 124 | 33'-5" DECK-LONGIT.-TOP SPAN 1 Χ 781.08 779.71 779.54 779.16 778.97 FAST FOD 781.86 781.76 781.66 781,56 781,44 781.33 **7**81.21 780,95 780.82 780.68 780.53 780.38 780.22 780.06 779.89 779.35 S406 504 40'-0' BOT. LONGIT. - SPAN 1,2,3,4 S80**7** 61 30'-4" X PIER 11 ONGIT, TOP C/L BRG. PIER 2 9/10 PT. PIER 3 S808 62 52'-4" PIER 11 ONGIT, TOP /10 P1 2/10 PT. 3/10 PT. 4/10 PT 5/10 PT. 6/10 PT. 7/10 PT. 8/10 PT. 1/10 PT 2/10 PT. 3/10 PT. 4/10 PT. 5/10 PT. 6/10 PT. 7/10 PT. 8/10 PT. 9/10 PT N. ABUT. S409 62 | 36'-7" DECK-LONGIT- TOP SPAN 2 WEST EOD 779.18 778.99 778.79 778.59 778.38 778.16 777.94 777.72 777.49 777.25 777.01 776.88 776.75 776.62 776.49 776.35 776.21 776.08 775.94 775.80 775.65 S**7**10 61 28'-8" PIER 2 LONGIT. TOP 778.81 778.61 778.40 778.19 777.74 777.51 777.27 777.03 776.90 776.77 776.64 776.51 776.23 776.10 775.96 775.82 775.67 GIRDER 1 779.21 779.01 777.97 776.37 S711 62 47'-9 PIER 2 LONGIT. TOP 777.13 GIRDER 2 779.31 779.12 778.92 778.71 778.50 778.28 778.06 777.84 777.61 777.37 777.00 776.87 776.73 776.60 776.46 776.33 776.19 776.05 775.91 775.76 S412 124 24'-8' DECK-LONGIT- TOP SPAN 3 778.81 778.38 777.70 777.46 777.22 777.09 776.00 GIRDER 3 779.41 779.22 779.02 778.60 778.16 777.93 776.96 776.83 776.69 776.56 776.42 776.28 776.14 775.85 S613 61 PIER 3 LONGIT. TOP GIRDER 4/CRWN. PT. 779.52 779.32 779.12 778.91 778.70 778.48 778.26 778.03 777.80 777.56 777.32 777.19 **777.**05 776.92 776.78 776.65 776.51 776.37 776.23 776.09 775.94 62 45'-9' PIER 3 LONGIT. TOP S614 GIRDER 5 778.95 778.74 778.53 778.31 778.08 777.86 777.62 777.38 777.14 777.01 776.87 776.74 776.60 776.47 776.33 776.19 776.05 775.90 775.76 779.15 62 22'-8" DECK-LONGIT- TOP SPAN 4 \$415 IRDER 6 778.77 778.57 778.35 778.13 777.91 777.68 777.44 777.20 776.96 776.83 776.69 776.56 **776.**42 776.28 **77**6.14 776.00 775.86 775.72 775.57 112 40'-0" S416 GIRDER HAUNCH LONGIT GIRDER 7 779.01 778.81 778.60 778.39 778.18 777.96 777.73 777.50 777.27 777.02 776.78 776.65 776.51 776.38 776.24 776.10 775.96 775.82 775.68 775.53 775.39 S417 569 3'-0" HAUNCH-HAT BAR GIR. 1 (SP 1-4) & GIR.7 (SP. 1-3 EAST EOD 778.97 778.77 778.56 778.35 778.14 777.92 777.69 777.46 777.23 776.99 776.74 776.61 776.47 776.34 776.20 776.06 775.92 775.78 775.64 775.49 775.35 1305 HAUNCH-HAT BAR GIR 2 THRU 6 (SP. 1-3) 141 HAUNCH-HAT BAR GIR. 2, 5&6 (SP.4) 94 3'-3" HAUNCH-HAT BAR-GIR. 3&4 (SP.4) HAT BAR, TYP. THICKNESS 47 2'-9" TIE BAR. TYP. HAUNCH-HAT BAR- GIR.7 (SP.4) \$422 X 986 4'-1" TRANSVERSE EDGE OF DECK BARS 72 S423 6'-0" JOINT REPAIR - DIAPHRAGM VERT TOP OF GIRDER S624 **7**2 JOINT REPAIR DIAPHRAGM - HORIZ. - BOT. 4'-11' DECK. AND DEAD LOAD DEFL. S425 48 4'-11' JOINT REPAIR - EXP. & DIAHPRAGM TOP PARAPET ARE POURED. S526 122 5'-5" PAVING BLOCK/BACKWALL VERT. TOP OF GIRDER BEFORE DECK IS POLIBED 32 S427 24'-8' BACKWALL HORIZ. DECK HAUNCH DETAIL PAVING BLOCK/BAKWALL VERT S528 122 5529 42 PAVING BLOCK/BACKWALL HORIZ Ε. 11/4" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE _ _ [-] GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION S530 924 4'-5" PARAPET @ DECK - VERT 3/10 4/10 S531 924 6'-8" PARAPET @ DECK - VERT. S532 X 128 40'-0' PARAPET @ DECK - HORIZ. <u>S530</u> **S531** CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE EXISTING GIRDERS, INCLUDING SHEAR STIRRUPS. SAWCUTTING OF THE EXISTING SHEAR STIRRUPS IS NOT ALLOWED. DEAD LOAD DEFLECTION DIAGRAM X 244 BACKWALL VERT. (A23) TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT \P . OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS DEAD LOAD DEFLECTIONS PROCESS: TOP OF DECK ELEV. AT FINAL GRADE DEAD LOAD DEFLECTION (IN-TOP OF GIRDER ELEVATION GIRDEI + DEAD LOAD DEFLECTION 6/10 **7**/10 8/10 NO. S528 DECK THICKNESS = HAUNCH HEIGHT 'T 1-7 0.5 0.9 1.5 1.5 1.4 1.2 0.9 0.5 S526 1'-4" NOTE: AN AVERAGE HAUNCH ('T') OF 5.3" WAS USED IN THE QUANTITY 1-7 0.5 0.9 1.2 1.5 1.5 1.5 1.2 0.9 0.5 "CONCRETE MASONRY BRIDGES". S417, S418, S419, 1-7 0.9 1.5 1.5 1.5 0.9 1.3 0.5 S420**.** S421 1-7 0.1 0.1 0.1 0.1 0.1 0.0 0.1 0.1 ROTATE LEG AS NEEDED TOP OF DECK (TYP.) CLEAR COVER TO MEET REQUIREMENTS CONST.JT. Ó1 SPA. @ 1'-O", (TYP.) 🔳 END OF DECK (TYP.) -**S501** TIP S423 BAR FROM VERTICAL AS NEEDED. 13/4" JOINT OPENING **S423** <u>S422</u> **EXISTINO** - \$425 S526, S528 IΔP 8 **GIRDER** (TYP.) -S425 S405, S415 DIMENSION NOTED IN HAT BAR "H" LAYOUT TABLE ON "SUPERSTRUCTURE" S402 · -(A23) - S406 4" MIN. (6) S423 @ 10" BTWN. GIRDERS NO. DATE REVISION BY EXIST. END OF GIRDERS STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION NOTE: SEE "COVER PLATE DETAILS" SHEET AND INCORPORATE IN JOINT INSTALLATION * DIMENSION IS TAKEN NORMAL TO Q SUBSTRUCTURE UNITS. 5 FQ. SPA. STRUCTURE B-32-69 S624 □ DIMENSION IS TAKEN PARALLEL TO ♀ GIRDER. SALVAGE EXIST. REINF. & EXTEND FULL JJS CK'D. ARC $\hfill \Box$ reinforcement placed parallel to $\hfill \mathbb{Q}$ of existing girders. Spacing perpendicular to $\hfill \mathbb{Q}$ of girders. LENGTH INTO NEW WORK. SHEET 6 **SUPERSTRUCTURE** (A23) ADHESIVE ANCHORS. EMBED 1'-O" INTO EXIST. CONCRETE.

SECTION THRU JOINT AT ABUTMENT

PART LONGITUDINAL SECTION

CALE = 1.00

DETAILS



7048-00-80

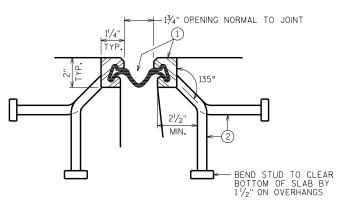
LEGEND

- 1) NEOPRENE STRIP SEAL (4" INCH) AND STEEL EXTRUSIONS.
- STUDS $\frac{5}{8}$ " DIA, X $6\frac{3}{4}$ " LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
- (2A) 1/2" THICK ANCHOR PLATE WITH 5%" DIA. ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE, WELD ANCHOR PLATE TO NO.1 AT 1'-6" CENTERS BETWEEN GIRDERS.
- 3 ¾" DIA. THREADED ROD WITH 2 NUTS AND PLATE WASHERS. GROUT THREADED ROD INTO FIELD DRILLED HOLES ON € OF GIRDER. ON ABUTMENT SIDE GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN.
- (4) 3/4" DIA. THREADED ROD WITH NUT. TACK WELD NUT TO NO.5.
- FABRICATE SUPPORT FROM 3" X 1/2" BAR AS SHOWN OR EQUIVALENT, ONE PER GIRDER PER SIDE. SHOP OR FIELD WELD TO NO.1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 1/2" DIA. HOLE FOR NO. 3 AND 1" DIA. HOLE FOR NO. 4 (5)
- (6) GALVANIZED PLATE 3/8" X 10" X 2'-2" LONG WITH HOLES FOR NO. 7.
- 3/4" DIA. X 11/2" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS 1/16" BELOW PLATE SURFACE.
- (8) 3/4" DIA. X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
- 9) 3/4" DIA. X 21/4" GALVANIZED THREADED COUPLING.
- $1^{\prime\prime}$ X 5" SLOTTED COUNTERSUNK HOLE FOR NO.7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.

- SET FLUSH WITH CONC. CONCRETE DIAPHRAGM TO EXTEND BETWEEN INSIDE (5) (4) 4 FACES OF EXTERIOR GIRDERS PAVING NOTCH -CONST. JOINT MIN. 2'-6" - END OF GIRDER - FRONT FACE OF "REMOVAL AND ABUT. BACKWALL * POUR CONCRETE ABOVE BACKWALL REPAIR DETAILS" SHEET FOR THIS JOINT AFTER SUPERSTRUCTURE IS DETAILS. IN PLACE. STRIKE OFF AND LEAVE ROUGH.

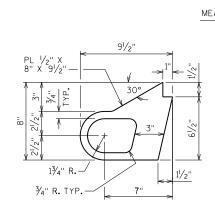
SECTION THRU JOINT AT ABUTMENT

NORMAL TO & SUBSTRUCTURE DIAPHRAGM REINFORCEMENT NOT SHOWN FOR CLARITY

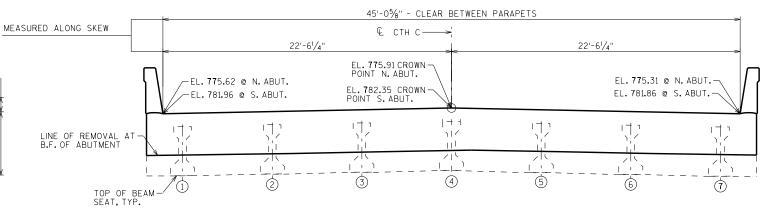


SECTION THRU JOINT

EXTERIOR GIRDER TO EDGE OF DECK

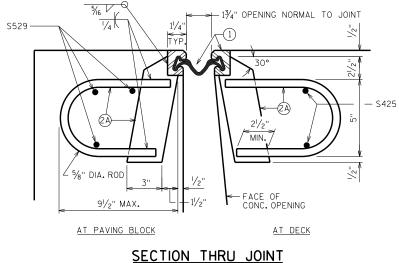


ALTERNATE STRIP SEAL ANCHOR



SECTION THRU ABUTMENTS

LOOKING AT F.F. ABUTMENT ELEVATIONS SHOWN AT F.F. OF BACKWALL



ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS.

8

-S529 (LAP 1'-0" MIN.) (A) (4)9 \ \ TYP. S425 MAX. MAX. € OF EXT. GIRDER

PART PLAN

NOTES

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS, UNLESS MORE ARE REQUIRED FOR STAGED CONSTRUCTION, HANDLING OR GALVANIZING REQUIREMENTS. IF USED, ANCHOR PLATES SHALL BE PROVIDED 3" FROM EACH SIDE OF THE FIELD SPLICE, DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST AND SWEEP.

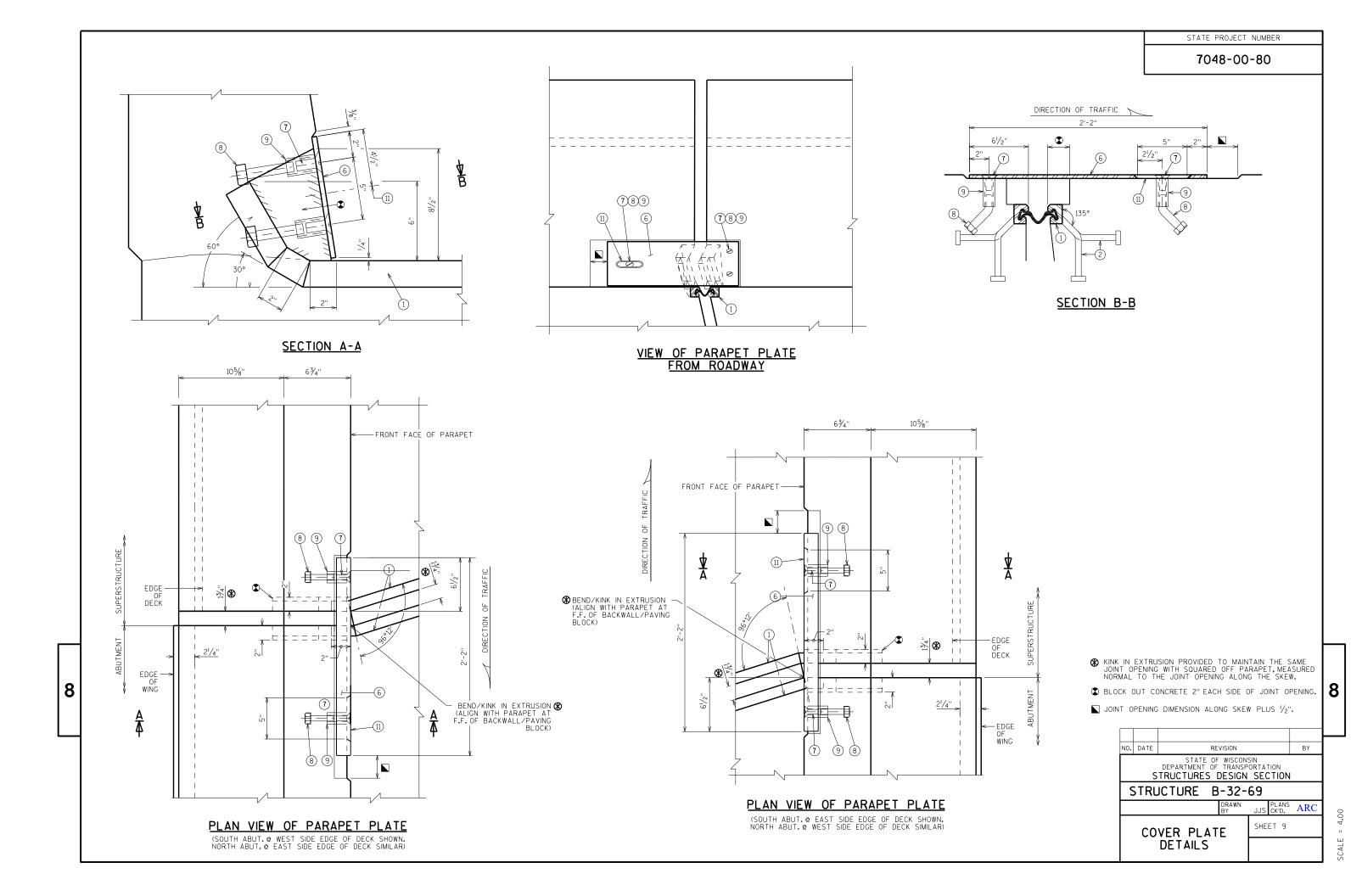
FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

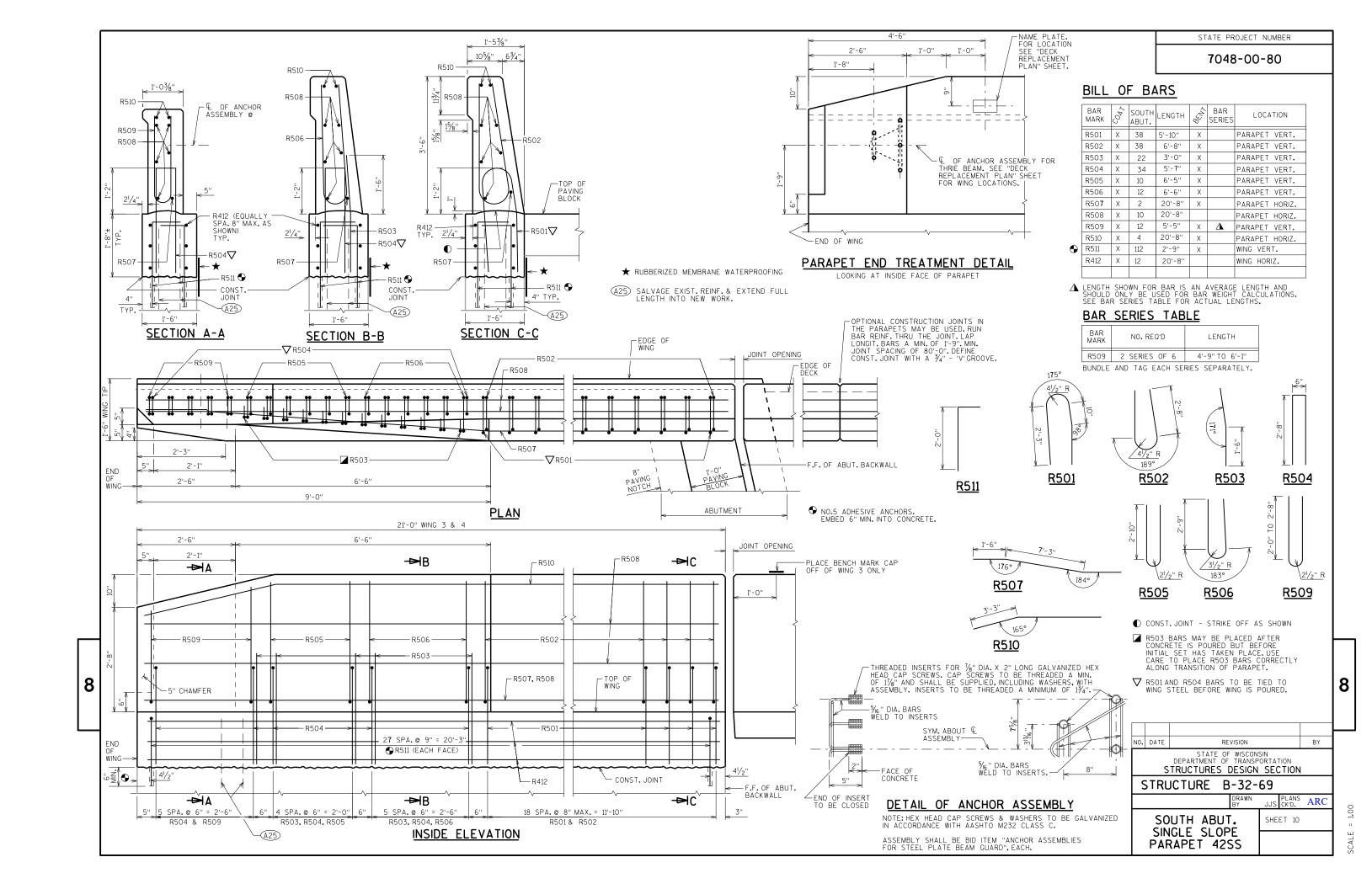
SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

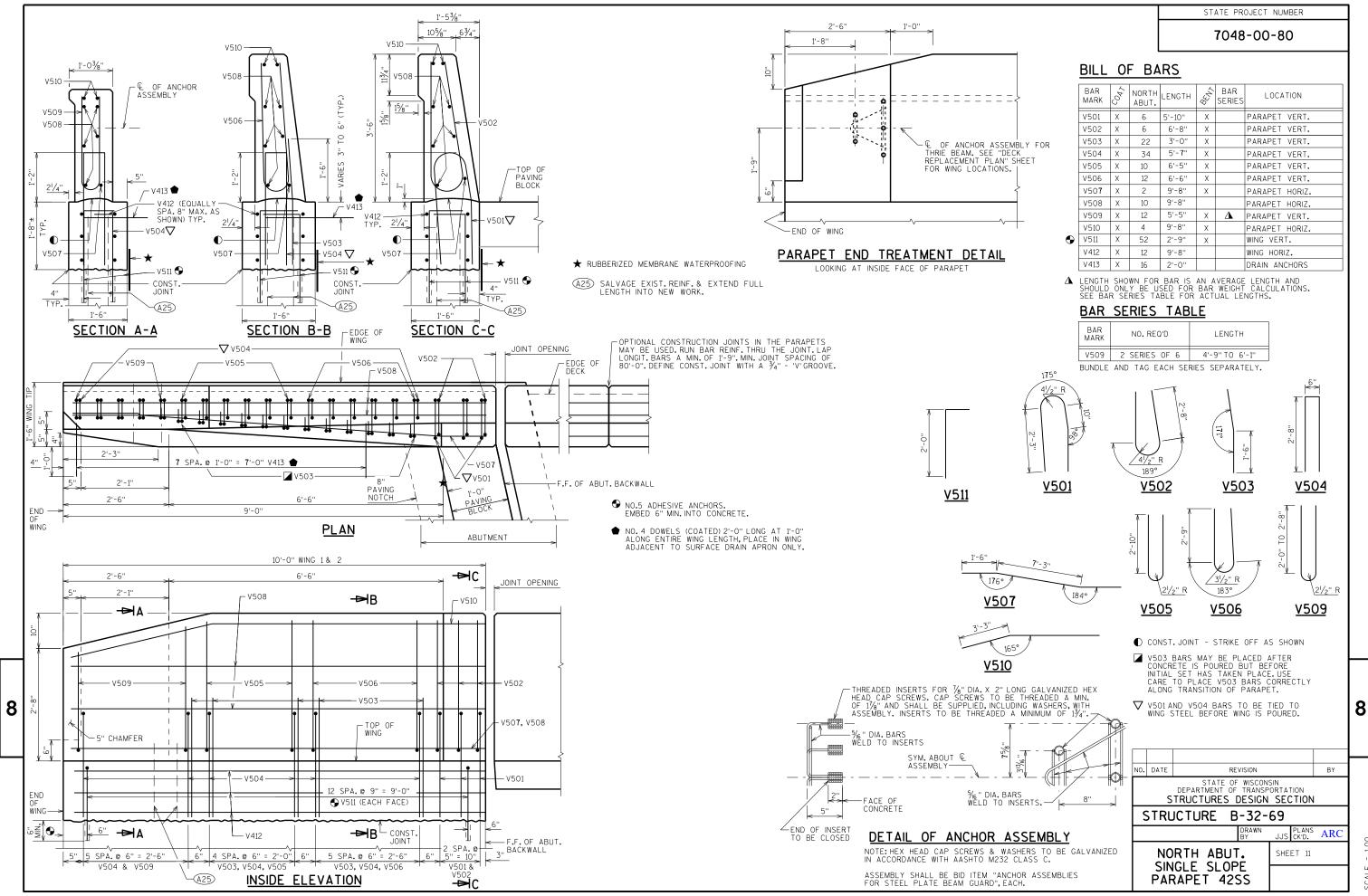
ANCHOR SYSTEM NO. 8 AND NO. 9 SHALL CONFORM TO ASTM A307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

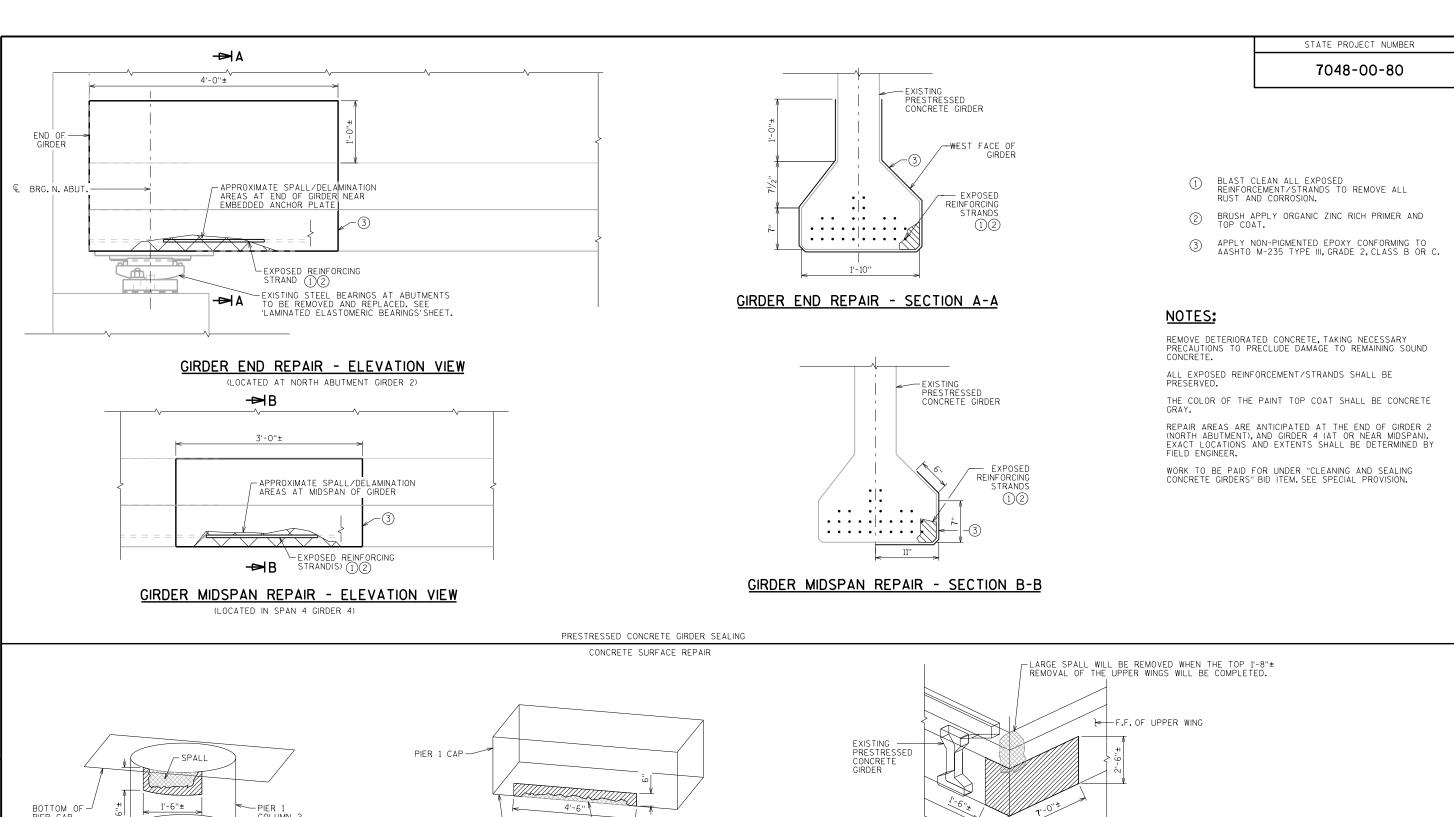
ALL MATERIAL IN THE EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE SHALL BE PAID AT THE UNIT PRICE BID FOR "EXPANSION DEVICE B-32-69", LF.

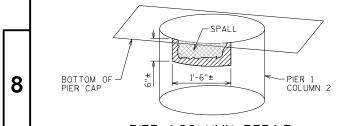
	NO.	DATE	RE	VISION			BY
		S	STATE OF DEPARTMENT OF TRUCTURES I	TRANSP	ORTA		
5	۷,	TRL	JCTURE B	3-32-	69		
				DRAWN BY	JJS	PLANS CK'D.	ARC
		Ε	XPANSION		SHE	ET 8	
			DEVICE				





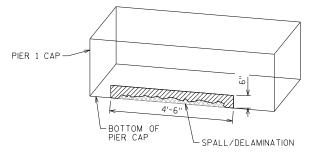






PIER 1 COLUMN REPAIR

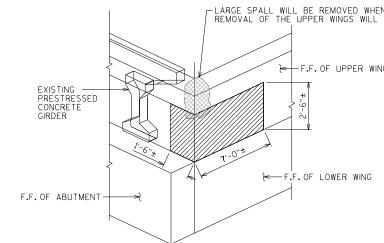
LOCATION PIER 1 COLUMN 2 SOUTH FACE WORK TO BE PAID FOR UNDER "CONCRETE SURFACE REPAIR" BID ITEM.



PIER 1 CAP REPAIR

LOCATION PIER 1 CAP SOUTH FACE (BTWN. COLS 1 & 2)

WORK TO BE PAID FOR UNDER "CONCRETE SURFACE REPAIR" BID ITEM.

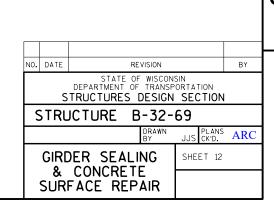


ABUTMENT CORNER REPAIR

TYP. AT ALL 4 CORNERS

SALVAGE EXISTING REINFORCEMENT. IF EXISTING BARS ARE SEVERELY CORRODED CONTACT BOS DESIGN ENGINEER, WORK TO BE PAID FOR UNDER BID ITEM "CONCRETE SURFACE REPAIR".

AREA TO BE REPAIRED UNDER BID ITEM "CONCRETE SURFACE REPAIR".



0.75

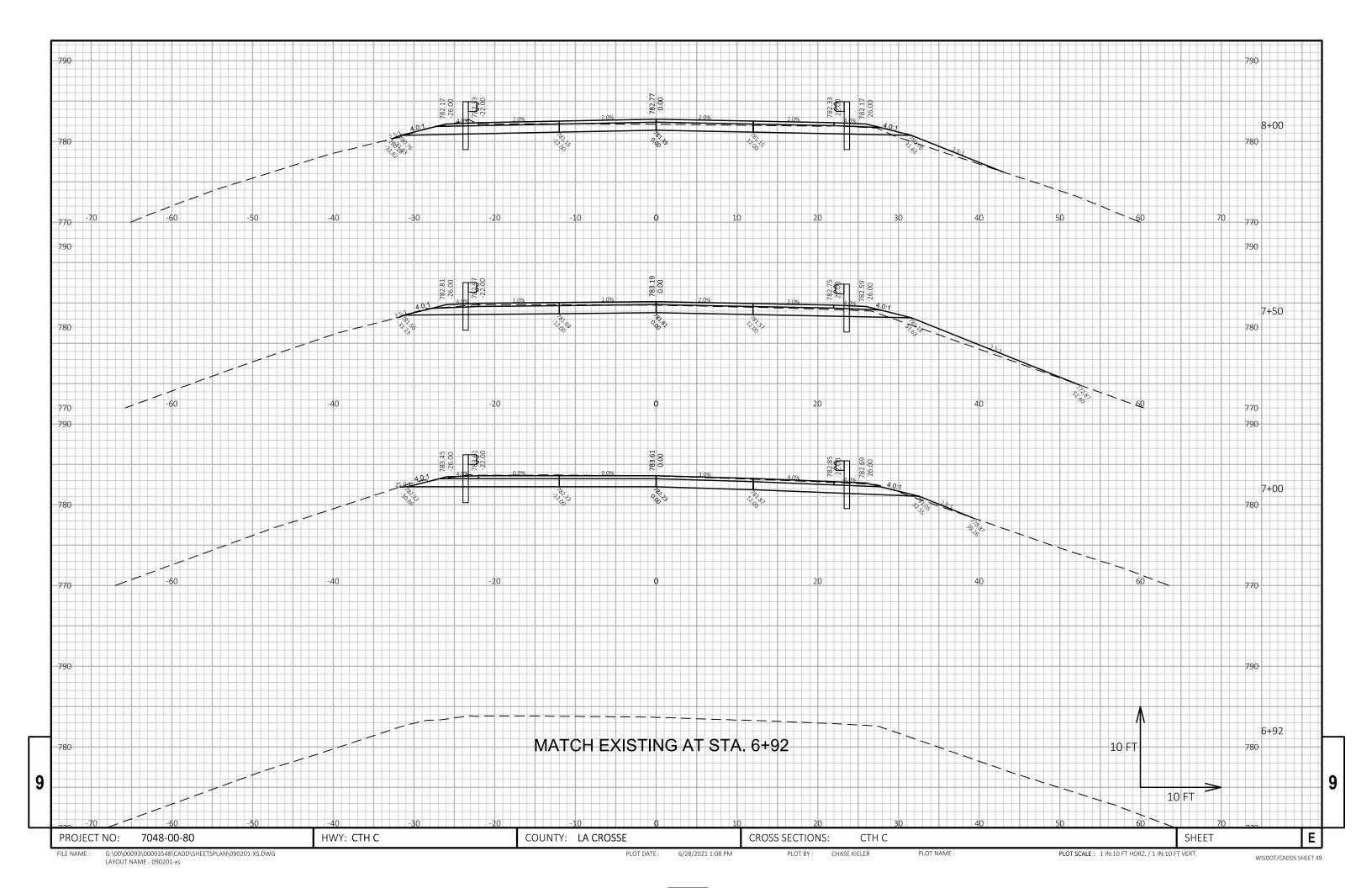
EARTHWORK PROJECT I.D. 7048-00-80 - CTH C - BRIDGE REHABILITATION - DIVISION 1

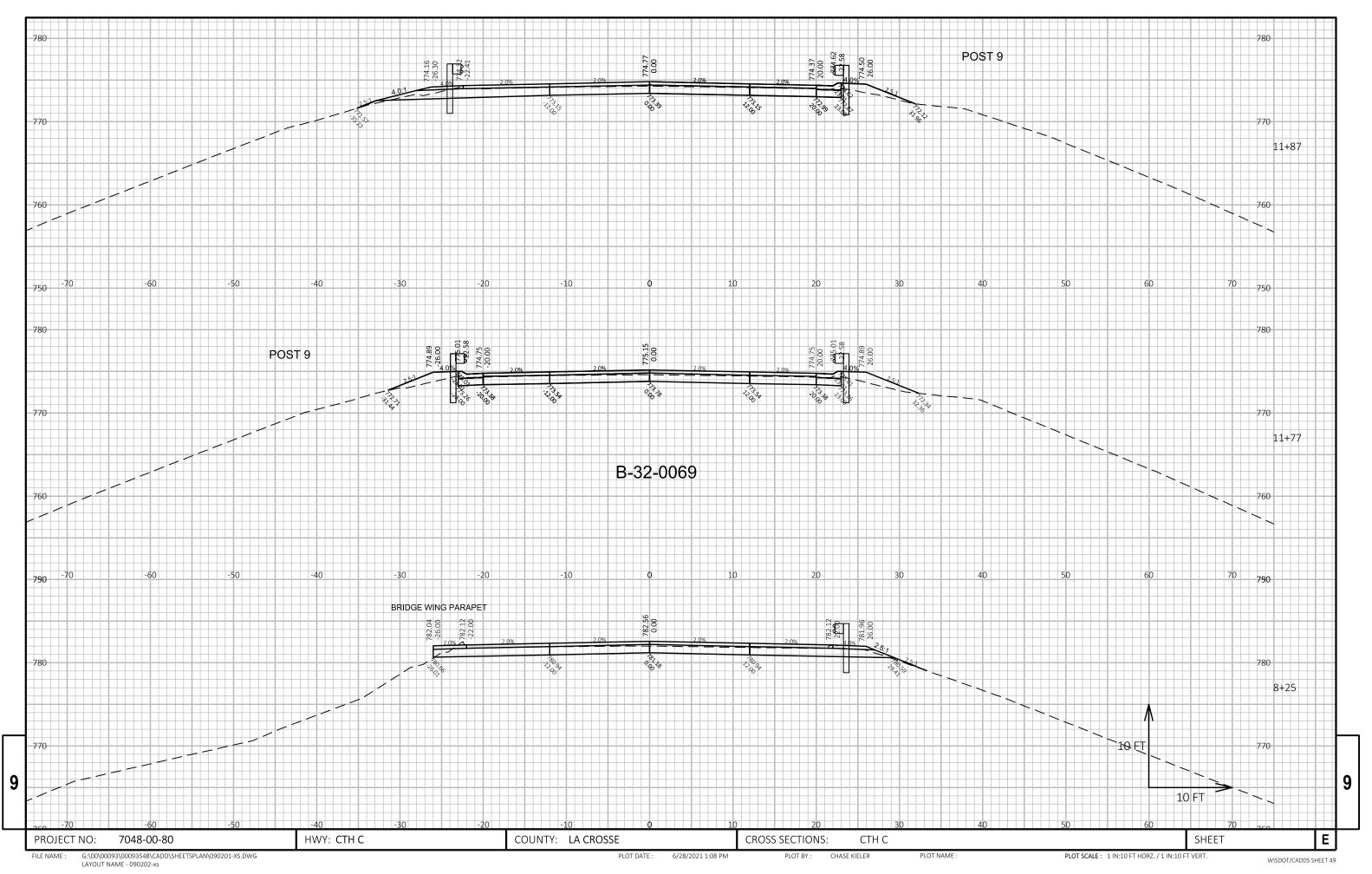
		AREA (SF)			Incremental Vo	ol (CY) (Unadjusted)		Cumulative Vol	(CY)	
STATION	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.25	Mass Ordinate
6+92		73	17	0		0	0	0	0	0
7+00	8	83	17	1	23	5	0	23	0	18
7+50	50	72	17	4	144	31	5	167	6	125
8+00	50	76	17	2	137	31	6	304	13	224
8+25.	25	68	17	8	67	15	5	370	19	270
8+46. B-32-0069	21	68	17	8	53	13	6	423	26	302
					423	95	21			

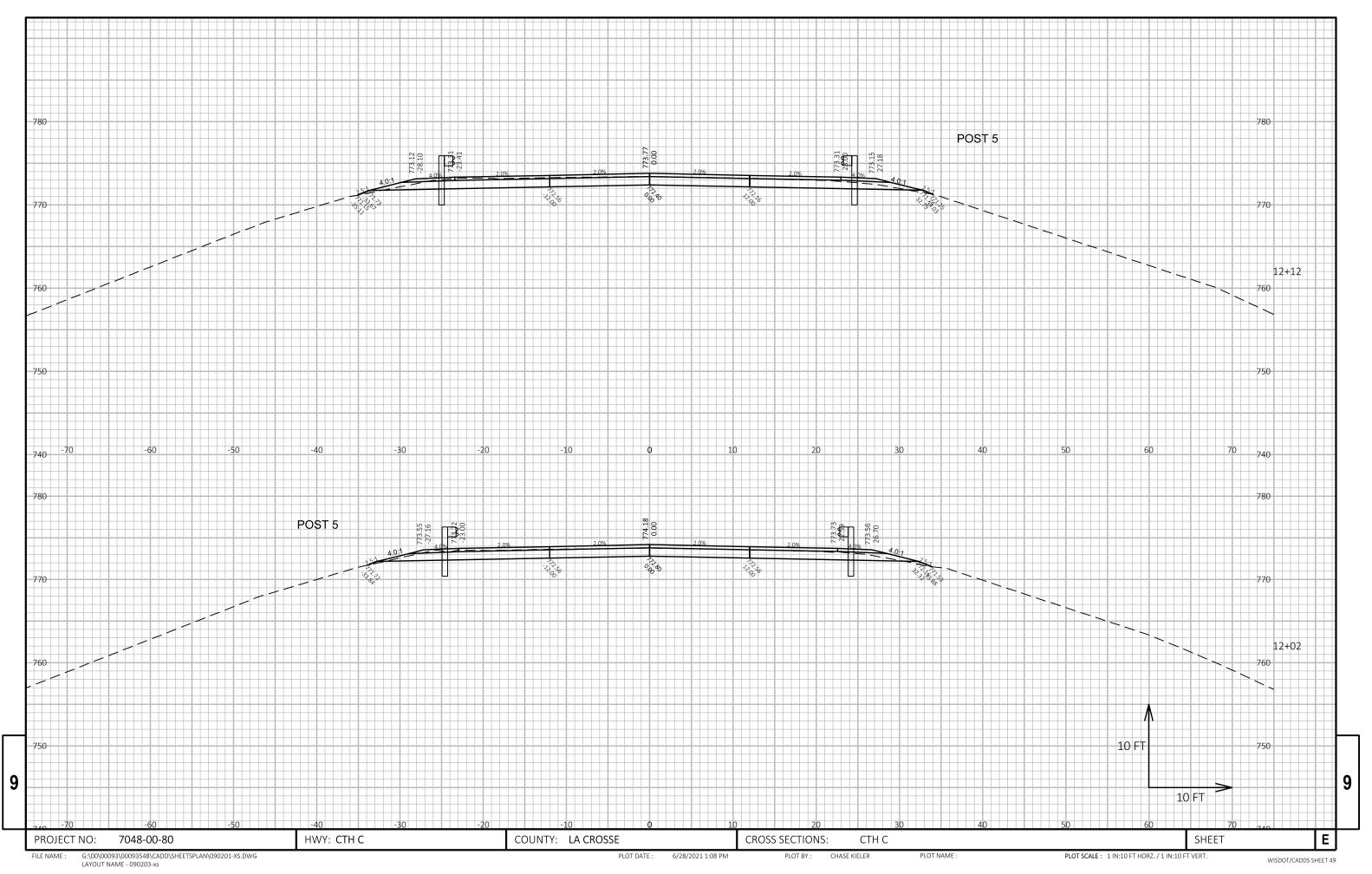
EARTHWORK PROJECT I.D. 7048-00-80 - CTH C - BRIDGE REHABILITATION - DIVISION 2

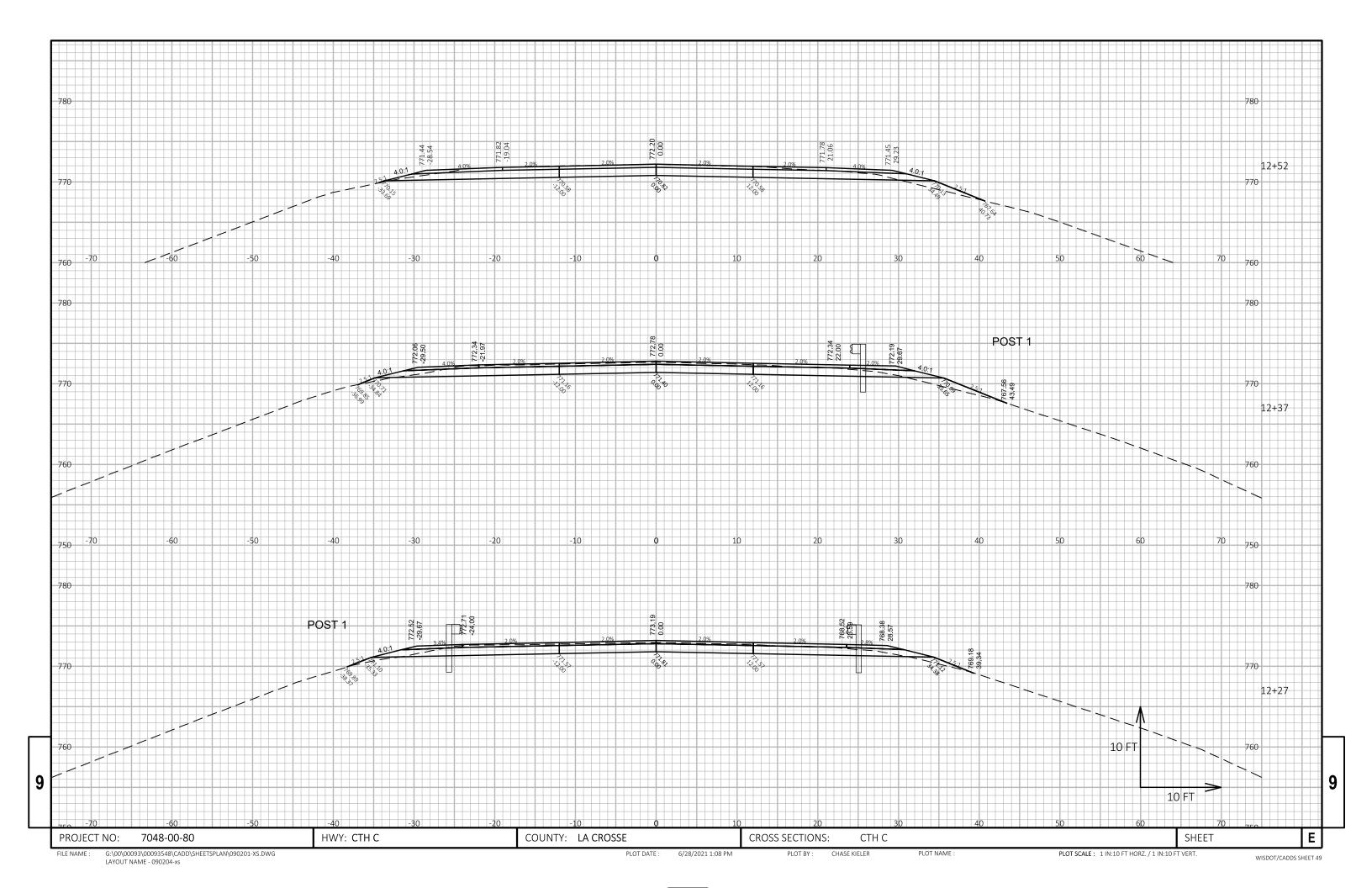
STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)			
		Cut	Salvaged/Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.25	Mass Ordinate
B-32-0069										
11+54.		58	17	0	0	0	0	0	0	0
11+77	23	58	17	8	49	14	3	49	4	31
11+87	10	68	17	3	23	6	2	73	7	46
12+02	15	78	17	0	41	9	1	113	8	76
12+12	10	83	17	0	30	6	0	143	8	100
12+15	3	83	17	0	9	2	0	152	8	107
12+27	12	63	17	4	33	7	1	185	9	132
12+37	10	68	17	6	24	6	2	209	11	147
12+52	15	72	17	5	39	9	3	248	15	173
12+95	43	45	0	0	93	13	4	341	20	248
13+00	5	6	0	0	5	0	0	346	20	253
13+50	50	5	0	0	10	0	0	356	20	263
13+79	29	5	0	0	6	0	0	362	20	269
					362	73	16			

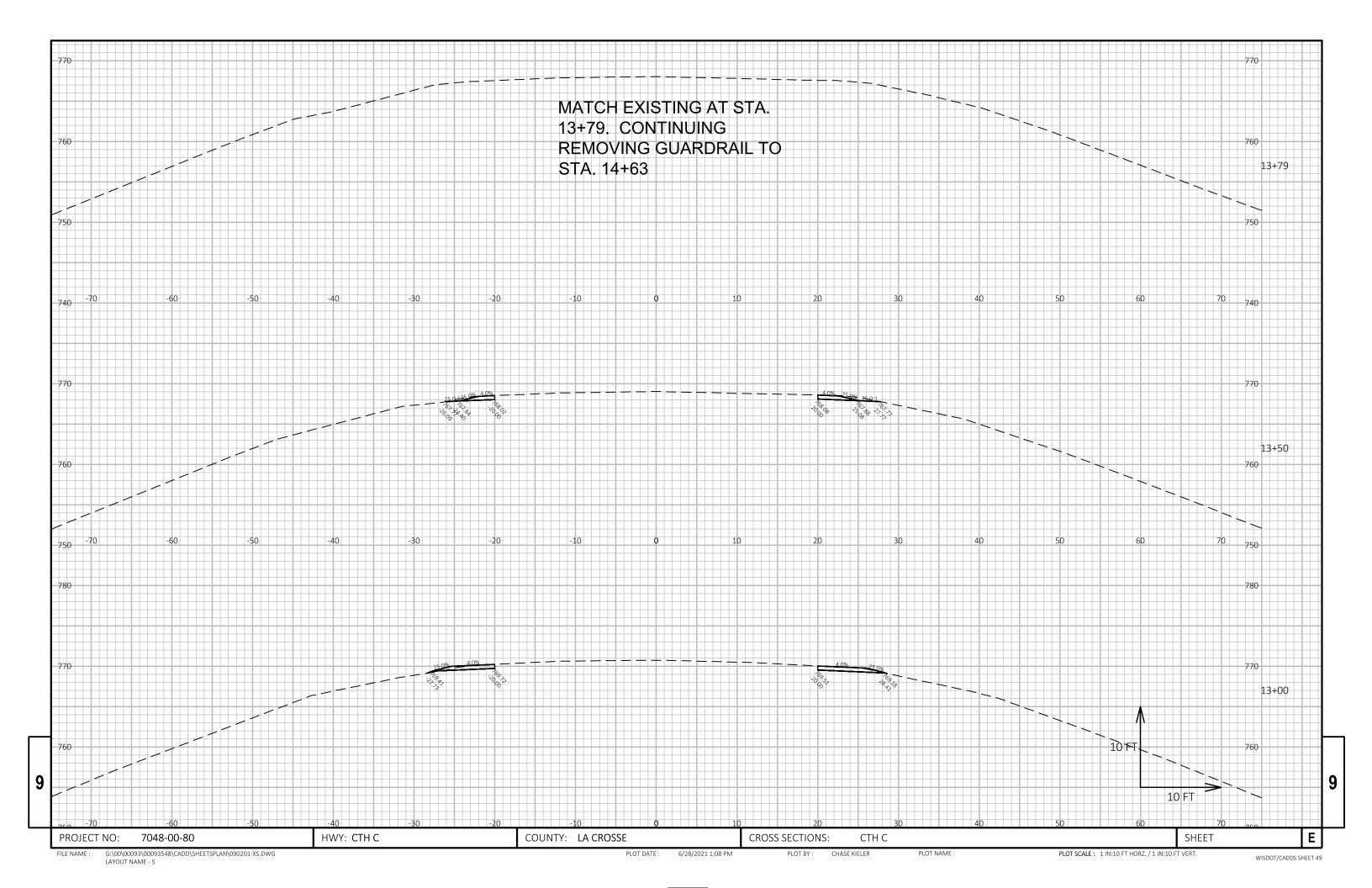
HWY: CTH C COUNTY: LA CROSSE Ε PROJECT NO: 7048-00-80 EARTHWORK: CTH C SHEET PLOT NAME :

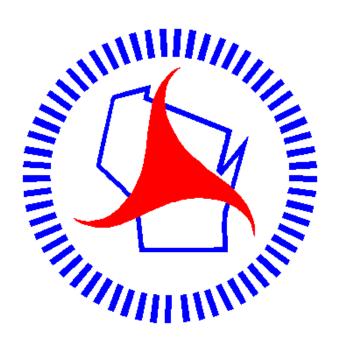












Wisconsin Department of Transportation

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