WKE JULY 2023 ORDER OF SHEETS

Section No. Title 1 Section No. 2 Estimate of Quantities Section No. -3 Miscellaneous Quantities Section No. 3 Right of Way Ple Contion Plan and Prof Section No. 7 Sign Plates Section No. 8 Structure Plans Computor Earthwork Da Cross Castia

TOTAL SHEETS = 60

DESIGN DESIGNATION

A.A.D.T.	=	N/A
A.A.D.T.	=	N/A
D.H.V.	=	N/A
D.D.	=	N/A
Т.	=	N/A
DESIGN SPEED	=	N/A
ESALS	=	N/A



S OUTHEA PLAN CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE S SLOPE INTERCEPT REFERENCE LINE R EXISTING CULVERT PROPOSED CULVERT (Box or Pipe) GION COMBUSTIBLE FLUIDS

COUNTY:

MARSH AREA WOODED OR SHRUB AREA

Typical Sections and Details



GAS

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

STORM SEWER

TELEPHONE

POWER POLE

WATER



ę

ø

ROCK

LABEL ____

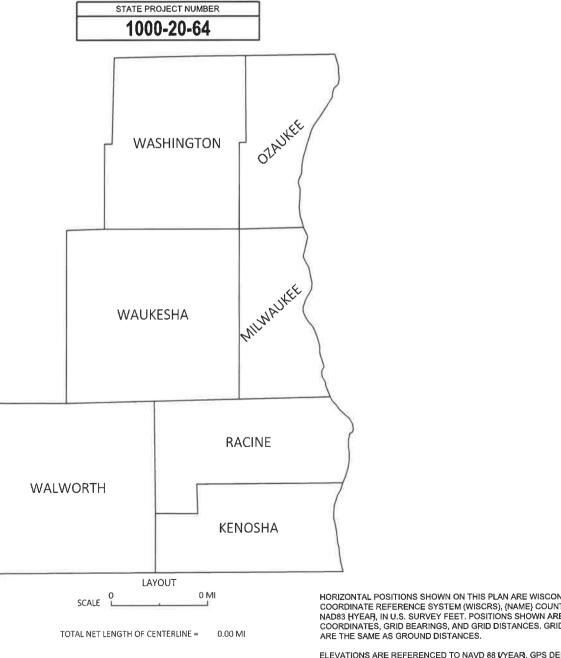
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

ANCILLIARY STRUCT REHAB/REPLACE 2022

LOCATIONS ON STN PER ANNUAL PLAN

VARIOUS HIGHWAYS STATEWIDE



FILE NAME : G:\14050.01 - WISDOT SIGN REPAIR DESIGN WO1\CAD\SHEET DRAWINGS\TITLE SHEET.DWG

<u>///////</u>

--./

300'EB'

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10/28/2022 1:57 PM PLOT DATE :

ELEVATIONS ARE REFERENCED TO NAVD 88 (VYEAR). GPS DE ELEVATIONS ARE BASED ON GEOID XX.

MORGAN GRUBER PLOT NAME PLOT BY :

	FEDERAL PROJE	СТ
STATE PROJECT	PROJECT	CONTRACT
1000-20-64		
	ISCONSIN #	
	Manna Magazina	
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	E MUTZICER	10
	E-37119	H I
	EQ. WISCOMSH / NO	T I
	ISS ONLY	100
	States ONAL TO 17	1
	10/271	
	V	
	ORIGINAL PLANS PREPAR	FD BY
	COLLIN ENGINEER	12
	ENGINEEK	
		SY 1
	DATE: 10/21/22 Mark	Mit
	DATE: 10/21/22 Mark	
	DATE: 10/21/22 Mark	ture) SIN
	DATE: Of ENTER Mark (Sign STATE OF WISCON DEPARTMENT OF TRANSP	ture) SIN
	DATE: Of 19/12 Mark (Sign STATE OF WISCON DEPARTMENT OF TRANSP PREPARED BY	SIN PORTATION
	DATE: 10/19/12 Maily (Sign STATE OF WISCON DEPARTMENT OF TRANSP PREPARED BY Surveyor N	ture) SIN
	DATE: Oligina Maile (Signal STATE OF WISCON DEPARTMENT OF TRANSP PREPARED BY Surveyor <u>N</u> Designer <u>COLLINS E</u>	SIN PORTATION
	DATE: Original Examiner	A NGINEERS SIN ORTATION A NGINEERS
	DATE: Original Examiner	INGINEERS
ΓY,	DATE: Original Market (Signal STATE OF WISCON DEPARTMENT OF TRANSP PREPARED BY Surveyor N Designer COLLINS E Project Manager DIEGO Regional Examiner Regional Supervisor MANOJ APPROVED FOR THE DEPARTMENT	A NGINEERS OY NAG
NSIN TY, E GRID D DISTANCES	DATE: 10/27/202 STATE OF WISCON DEPARTMENT OF TRANSP PREPARED BY Surveyor N Designer COLLINS E Project Manager DIEGO Regional Examiner Regional Supervisor MANOJ APPROVED FOR THE DEPARTMENT DATE: 10/27/2022 Diego	In ture) SIN ORTATION (A NGINEERS D SILVA OY NAG Silva
TY, E GRID	DATE: Original Market (Signal STATE OF WISCON DEPARTMENT OF TRANSP PREPARED BY Surveyor N Designer COLLINS E Project Manager DIEGO Regional Examiner Regional Supervisor MANOJ APPROVED FOR THE DEPARTMENT	In ture) SIN ORTATION (A NGINEERS D SILVA OY NAG Silva
FY, E GRID	DATE: 10/27/202 STATE OF WISCON DEPARTMENT OF TRANSP PREPARED BY Surveyor N Designer COLLINS E Project Manager DIEGO Regional Examiner Regional Supervisor MANOJ APPROVED FOR THE DEPARTMENT DATE: 10/27/2022 Diego	A SIN ORTATION (A NGINEERS D SILVA OY NAG Silva

STATE AGENCIES

W	WISCONSIN DEPARTMENT OF TRANSPORTATION - COMMUNICATION LINE JEFF MADISON STE. 300 433 W. ST. PAUL AVE MILWAUKEE, WI 53203 416-225-3723 JEFFREY.MADISON@DOT.WI.GOV
W	WISCONSIN DEPARTMENT OF TRANSPORTATION - WISCONSIN SIGNAL JARRETT GATES 141 NW BARSTOW ST WAUKESHA, WI 53187 262-548-5894 JARRETT.GATES@DOT.WI.GOV
V	WISCONSIN DEPARTMENT OF TRANSPORTATION PROJECT MANAGER DIEGO SILVA 141 NW BARSTOW ST WAUKESHA, WI 53188 262-548-6433 DIEGO.SILVA@DOT.WI.GOV
WIS N	WISCONSIN DEPARTMENT OF NATURAL RESOURCES - KENOSHA & RACINE COUNTY BENTON STELZEL 141 NW BARSTOW ST WAUKESHE, WI 53188-3789 262-623-0194 BENTON.STELZEL@WISCONSIN.GOV

WISCONSIN DEPARTMENT OF NATURAL RESOURCES -WALWORTH & WAUKESHA COUNTY CRAIG WEBSTER 141 NW BARSTOW ST WAUKESHA, WI 53188-3789 262-574-2141 414-303-3011 CRAIG.WEBSTER@WISCONSIN.GOV

DESIGN CONTACT

COLLINS ENGINEERS, INC. 2033 W. HOWARD AVE. MILWAUKEE, WI 53221 ATTN: MARK MUTZIGER (414) 930-4534

HIGHWAY COMMISSIONER/UTILITIES CONTACT LIST (NOT ALL INCLUSIVE. CONTRACTOR RESPONSIBLE FOR ALL UTILITY COORDINATION AND LOCATING)

WALWORTH COUNTY

BARRY PIERCE

ASSISTANT DIRECTOR - HIGHWAY

W4097 COUNTY ROAD NN

ELKHORN, WI 53121

262-741-3799

BPIERCE@CO.WALWORTH.WI.US

MILWAUKEE COUNTY

DONNA BROWN MARTIN

10320 W. WATERTOWN PLANK RD

WAUWATOSA, WI 53226

414-257-5992

DONNA.BROWNMARTIN@MILWAUKEECOUNTYWI.GOV

OZAUKEE COUNTY

JON EDGREN

410 S. SPRING ST

PORT WASHINGTON, WI 53074

262-284-8331

JEDGREN@CO.OZAUKEE.WI.US

RACINE COUNTY ROLEY BEHM HIGHWAYS & PARKS SUPERINTENDENT 14200 WASHINGTON AVE STURTEVANT, WI 53177 262-886-8440 ROLAND.BEHM@RACINECOUNTY.COM

2

KENOSHA COUNTY CLEMENT ABONGWA DIRECTOR - KENOSHA COUNTY HIGHWAYS 19600 75TH ST SUITE 122-1 BRISTOL, WI 53104 262-857-1872 CLEMENT.ABONGWA@KENOSHACOUNTY.ORG

WASHINGTON COUNTY SCOTT SCHMIDT 900 LANG ST WEST BEND, WI 53090 262-335-6881 SCOTT.SCHMIDT@CO.WASHINGTON.WI.US

WAUKESHA COUNTY ALLISON BUSSLER 515 W. MORELAND BLVD ROOM 220 WAUKESHA, WI 53188 262-548-7740 ABUSSLER@WAUKESHACOUNTY.GOV



GENERAL NOTES

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

	NOT SHOWN.		
			DETAILS
PROJECT NO: 1000-20-64	HWY: VARIOUS	COUNTY: SOUTHEAST REGION	DETAILS
FILE NAME : G:\14050.01 - WISDOT SIGN REPAIR DESIGN W01\CAD\SHEET DR LAYOUT NAME - GENERAL NOTES	AWINGS\GENERAL NOTES.DWG	PLOT DATE : 12/15/2022 9:23 AM	PLOT BY : MORGAN GRUBER PLOT NAME :

VISCONSIN DEPARTMENT OF TRANSPORTATION -STREET LIGHTING ERIC PEREA 935 S 60TH ST WEST ALLIS, WI 53214 262-574-5422 ERIC.PEREA@DOT.WI.GOV

/ISCONSIN DEPARTMENT OF TRANSPORTATION -COMMMUNICATION TOWER MIKE ADAMS RM 501 PO BOX 7586 MADISON, WI 53707 608-266-5004 MICHAEL.ADAMS@DOT.WI.GOV

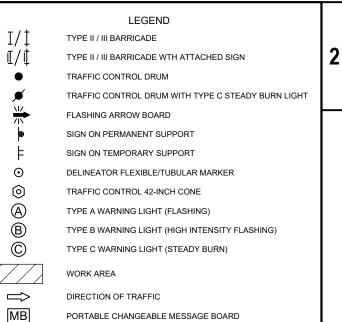
VISCONSIN DEPARTMENT OF TRANSPORTATION UTILITY ENGINEER MICHAEL BIRSCHBACH 141 NW BARSTOW ST WAUKESHA, WI 53188 262-548-5935 MICHAEL.BIRSCHBACH@DOT.WI.GOV

SCONSIN DEPARTMENT OF NATURAL RESOURCES -VILWAUKE, OZAUKEE, & WASHINGTON COUNTY KRISTINA BETZOLD 1027 W. ST. PAUL AVE MILWAUKEE, WI 53233 KRISTINA.BETZOLD@WISCONSIN.GOV

Ε

		RIGHT LANE CLOSURE W LISBON AVE		
2				
		DETOUR ROUTE ALONG N 47TH ST	DETOUR ROUTE N 45TH ST AND W LLOYD S	
			75	
		RAMP CLOSURE		
	N SATH ST N SATH	N 491H ST N 491H ST N 481H		
			WASHINGTON PARK	
		Statution SB STH 175		
	W VLIET ST WICK PLAYFIELD			
		(175)		

PLOT NAME : PLOT BY : MORGAN GRUBER



PORTABLE CHANGEABLE MESSAGE BOARD

- NOTES: 1. INSTALL PCMB IN ADVANCE OF CLOSURE PER
- SPECIFICATION REQUIREMENTS. 2. THROUGH TRAFFIC ALLOWED ON W LISBON AVE
- DURING CLOSURE.

TRAFFIC CONTROL PCMS MESSAGE					
PHASE	MESSAGE				
1	ROAD TO CLOSE				
2	DAY/TIME				

Ε

			E	stimate Of Q	uantities	
					1000-20-64	
Line	Item	Item Description	Unit	Total	Qty	
0002	509.1500	Concrete Surface Repair	SF	30.000	30.000	
0004	517.0601	Painting Epoxy System (structure) 01. S-51-0233	EACH	1.000	1.000	
0006	614.0950	Replacing Guardrail Posts and Blocks	EACH	1.000	1.000	
8000	614.0951	Replacing Guardrail Rail and Hardware	LF	15.000	15.000	
0010	619.1000	Mobilization	EACH	1.000	1.000	
0012	638.2101	Moving Signs Type I	EACH	1.000	1.000	
0014	643.1050	Traffic Control Signs PCMS	DAY	30.000	30.000	
0016	SPV.0060	Special 01. Rodent Screen	EACH	13.000	13.000	
0018	SPV.0060	Special 02. Remove Grout Pad	EACH	11.000	11.000	
0020	SPV.0060	Special 03.Tension Anchor Rod	EACH	628.000	628.000	
0022	SPV.0060	Special 04. Catwalk Hardware	EACH	1.000	1.000	
0024	SPV.0060	Special 05. Snug Tight Bolt	EACH	61.000	61.000	
0026	SPV.0060	Special 06. Tension Structural Bolt	EACH	179.000	179.000	
0028	SPV.0060	Special 07. Replace U-Bolt	EACH	20.000	20.000	
0030	SPV.0060	Special 08. Remove Catwalk and L Brackets	EACH	1.000	1.000	
0032	SPV.0060	Special 09. Install Pole, Truss, Signs, Sign Bridge S-30-0609	EACH	1.000	1.000	
0034	SPV.0060	Special 10. Adjust Sign	EACH	16.000	16.000	
0036	SPV.0060	Special 11. Sign Panel Connector	EACH	55.000	55.000	
0038	SPV.0060	Special 12. Vertical Sign Support	EACH	56.000	56.000	
0040	SPV.0060	Special 13. Luminaire Items	EACH	29.000	29.000	
0042	SPV.0060	Special 14. Conduit Plug	EACH	6.000	6.000	
0044	SPV.0060	Special 15. Replace Dished Washer	EACH	2.000	2.000	
0046	SPV.0060	Special 16. Replace Signal Shroud	EACH	5.000	5.000	
0048	SPV.0060	Special 17. Signal Mounting Hardware Modified	EACH	6.000	6.000	
0050	SPV.0060	Special 18. ID Plaque	EACH	14.000	14.000	
0052	SPV.0060	Special 19. Handhole Cover	EACH	9.000	9.000	
0054	SPV.0060	Special 20. Post/End Cap	EACH	5.000	5.000	
0056	SPV.0060	Special 21. Remove Debris	EACH	1.000	1.000	
0058	SPV.0060	Special 22. Traffic Control - Shoulder Closure	EACH	47.000	47.000	
0060	SPV.0060	Special 23. Traffic Control - Single-Lane Closure	EACH	74.000	74.000	
0062	SPV.0060	Special 24. Traffic Control - Double-Lane Closure	EACH	23.000	23.000	
0064	SPV.0060	Special 25. Traffic Control - Ramp Closure	EACH	15.000	15.000	
0066	SPV.0060	Special 26. Traffic Control - Rolling Full Freeway/Roadway Closure	EACH	8.000	8.000	
0068	SPV.0060	Special 27. Traffic Control Full Freeway/Road Closure	EACH	1.000	1.000	
0070	SPV.0090	Special 01. Catwalk Repair	LF	5.000	5.000	
0072	SPV.0165	Special 01. Repair Galvanized Coating	SF	60.000	60.000	



	STRUCTURE	MOBILIZATION	TRAFFIC CONTROL SIGNS PCMS	TRAFFIC CONTROL - SHOULDER CLOSURE	TRAFFIC CONTROL - SINGLE LANE CLOSURE	TRAFFIC CONTROL - DOUBLE-LANE CLOSURE	TRAFFIC CONTROL - RAMP CLOSURE	TRAFFIC CONTROL - ROLLING FULL FREEWAY/ROADWAY CLOSURE	TRAFFIC CONTROL - FULL FREEWAY/ROAD CLOSURE	STRUCTURE	MOBILIZATION
	BID ITEM	619.1000	643.1050	SPV.0060.22	SPV.0060.23	SPV.0060.24	SPV.0060.25	SPV.0060.26	SPV.0060.27	BID ITEM	619.1000
I		EA	DAY	EA	EA	EA	EA	EA	EA	UNIT	EA
I	L400031	LA	DA			273	L/		L/	S400226	
I	L400062									S400242	
I	L400063									S400267 S400282	
I	S300009			1						S400282 S400315	
I	S300023									S400313	
I	S300024			1						S400319	
I	S300217					1				S400320	
I	S300229			1						S400328	
I	S300231				1					S400339	
I	S300238 S300248				1	1				S400392	
I	S300248					1		1		S400393	
I	S300603				1					S400401	
I	S301168				-					S400438	
I	S301185				1					S400454	
I	S301187				1					S400458 S400501	
I	S301188									S400503	
I	S301192				1					S400505	
I	S301193			1						\$400509	
I	S301194									S400512	
I	S400001						2			S400514	
I	S400006			1						S400516	
I	S400019			1				1		S400533	
I	S400030 S400031			1						S400536	
I	S400031			1						S400573	
I	\$400056			-	2					S400579	
I	S400072									S400580	
I	S400074			1						S400583 S400710	
I	S400091				1					S400710	
I	S400097			1						S400746	
I	S400102			1						\$400753	
I	S400105				1		1			S400761	
I	S400110			1						S400812	
I	S400114			1						S400813	
	S400115			1						S400815	
	S400118			1	1					S400817	
	S400124 S400131			1			1			S400818	
	S400131 S400185					1				S400820	
	S400183					1	<u> </u>			S400838	
ļ	S400133			2						S400841	
1	S400225			1				1		S400843	

		-	-	-		-		
STRUCTURE	MOBILIZATION	TRAFFIC CONTROL SIGNS PCMS	TRAFFIC CONTROL - SHOULDER CLOSURE	TRAFFIC CONTROL - SINGLE LANE CLOSURE	TRAFFIC CONTROL - DOUBLE-LANE CLOSURE	TRAFFIC CONTROL - RAMP CLOSURE	TRAFFIC CONTROL - ROLLING FULL FREEWAY/ROADWAY CLOSURE	TRAFFIC CONTROL - FULL FREEWAY/ROAD CLOSURE
TRL	10B	RAF	RAF	RAF LOS	RAF	RAF	RAF REE	RAF REE
s	2							
BID ITEM	619.1000	643.1050	SPV.0060.22	SPV.0060.23	SPV.0060.24	SPV.0060.25	SPV.0060.26	SPV.0060.27
UNIT	EA	DAY	EA	EA	EA	EA	EA	EA
S400226			1					
S400242			1					
S400267				1				
S400282				1				
S400315				1				
S400317				1	1	1		
S400319				1	1			
S400320				2				
S400328			1			1		
S400339						1		
S400392				2				
S400393			1					
S400401								1
S400438								-
S400454			1					
S400454			1	1				
S400458					2			
\$400503 \$400503				1	2			
S400505				1	1			
S400505						1	1	
5400509						1	1	
S400512					2			
S400514			1					
S400516				1				
S400533			1	1				
S400536			-	1		1		
S400573			1	1				
S400579			2					
S400580			1	1				
S400583			1	L				
S400710				1				
S400713			1					
S400746				2				
S400753					1			
S400761				1				
S400812						1		
S400813					1			
S400815						1		
S400817				2				
S400818								
S400820					2			
S400838			2					
S400841				1			1	
\$400843			1	1	İ			
				-				I

STRUCTURE	MOBILIZATION	TRAFFIC CONTROL SIGNS PCMS	TRAFFIC CONTROL - SHOULDER CLOSURE	TRAFFIC CONTROL - SINGLE LANE CLOSURE	TRAFFIC CONTROL - DOUBLE-LANE CLOSURE	TRAFFIC CONTROL - RAMP CLOSURE	TRAFFIC CONTROL - ROLLING FULL FREEWAY/ROADWAY CLOSURE	TRAFFIC CONTROL - FULL FREEWAY/ROAD CLOSURE
BID ITEM	619.1000	643.1050	SPV.0060.22	SPV.0060.23	SPV.0060.24	SPV.0060.25	SPV.0060.26	g SPV.0060.27
UNIT	EA	DAY	EA	EA	EA	EA	EA	EA
S400865			1					
S400868			1					
S400949				1				
S400990					1			
S401159				1				
S401343								
S401348				2				
S401350				1				
S401362				1				
S401379				1				
S401455				1				
S401458				1				
S401476				1				
S401482				1				
S401538			1					
S450002					1			
S450206				2				
S450212				1				
S451102				1	1			
S510009				2				
S510010				1				
S510011			1	1				
S510233				2				
S510236				1				
S511168				2				
S511188				1				
S640204					1			
S640209				1				
S660006				1	1			
S660200			1		_			-
S660211				1				
S660213						1		
S660217							1	
S660218							1	
S670001						1		
S670031								
S670038				1				
S670039				1				
S670040				1				
S670200			2					
S670248					1			
S670254							1	
S670262					1			

PROJEC	CT NO: 1000-20-64	HWY: VARIOUS	COUNTY: SOUTHEAST REGIO	N	MISCELLANEOU	S QUANTITIES	
FILE NAME :	FILE NAME : G:\14050.01 - WISDOT SIGN REPAIR DESIGN W01\CAD\SHEET DRAWINGS\MISC QUANTITIES.DWG LAYOUT NAME - 01		PLOT DATE :	12/15/2022 9:25 AM	PLOT BY :	MORGAN GRUBER	PLOT NAME :

STRUCTURE	MOBILIZATION	TRAFFIC CONTROL SIGNS PCMS	TRAFFIC CONTROL - SHOULDER CLOSURE	TRAFFIC CONTROL - SINGLE LANE CLOSURE	TRAFFIC CONTROL - DOUBLE-LANE CLOSURE	TRAFFIC CONTROL - RAMP CLOSURE	TRAFFIC CONTROL - ROLLING FULL FREEWAY/ROADWAY CLOSURE	Traffic control - Full Freeway/Road closure
BID ITEM	619.1000	643.1050	SPV.0060.22	g SPV.0060.23	SPV.0060.24	SPV.0060.25	SPV.0060.26	SPV.0060.27
UNIT	EA	DAY	EA	EA	EA	EA	EA	EA
S670266				1				
S670275			1					
S670308				1				
S670310				1				
S670314						1		
S670408				1				
S670409			2					
S670419			1					
S670912							1	
S670916						1		
S670917						1		
S671263				1	1			
S671371				1				
S671385				1				
S671386				1				
TOTAL	1	30	47	74	23	15	8	1

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Standard Detail Drawing List

12A04-03	STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-08D	ON RAMP LANE CLOSURE
15C02-08E	OFF RAMP LANE CLOSURE
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UND
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15С11-10В	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15D12-10A	TRAFFIC CONTROL, LANE CLOSURE
15D14-05	TRAFFIC CONTROL, TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT-TERM (
15D16-05	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D20-06A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D20-06B	TRAFFIC CONTROL, SINGLE RIGHT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRES
15D20-06C	TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESS
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-07в	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER TH
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D42-01	TRAFFIC CONTROL, TWO LANE FULL FREEWAY CLOSURE
15D43-02	TRAFFIC CONTROL, SHORT DURATION MOBILE OPERATIONS
15D49-01	TRAFFIC CONTROL, SYSTEM RAMP CLOSURE
10010 01	

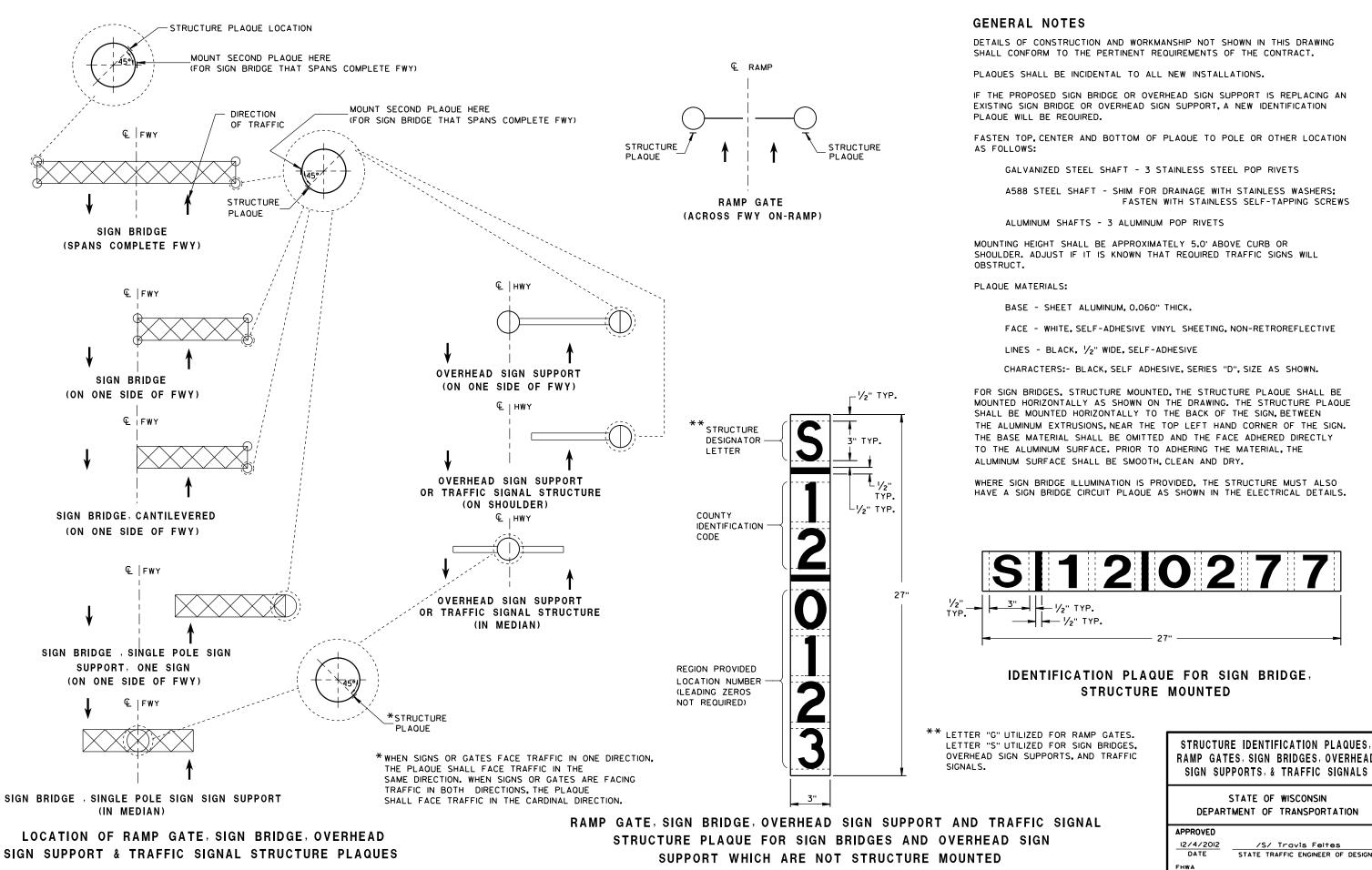
SIGN SUPPORTS & TRAFFIC SIGNALS

DIVIDED ROAD OPEN TO TRAFFIC

(LESS THAN 24 HOURS)

RESSWAY ESSWAY

THAN 40 MPH



4 6.3

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12

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6

FASTEN WITH STAINLESS SELF-TAPPING SCREWS

FOR	RAMP	GATES.
FOR	SIGN	BRIDGES,
PORTS	, AND	TRAFFIC

RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, & TRAFFIC SIGNALS

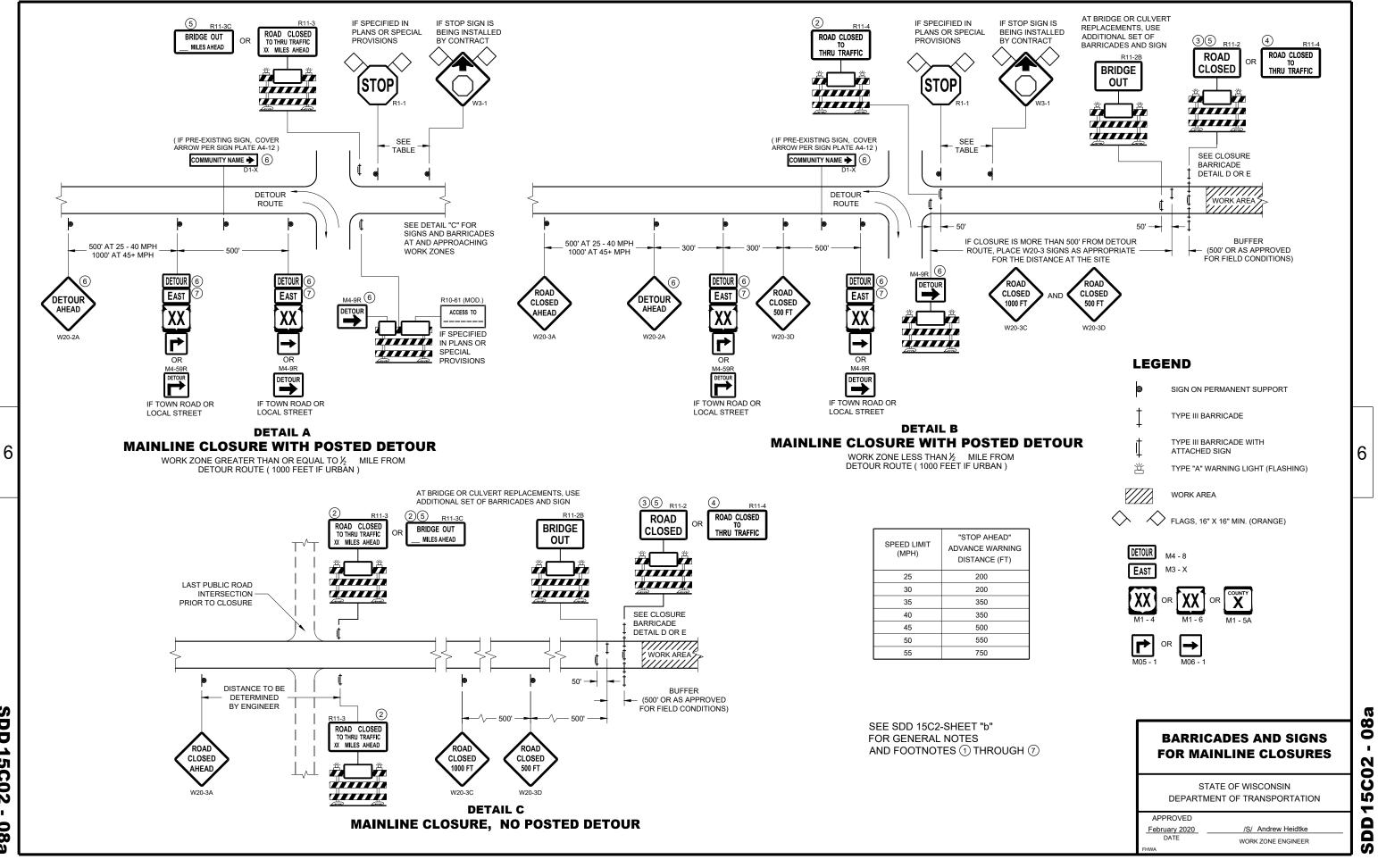
DEPARTMENT OF TRANSPORTATION

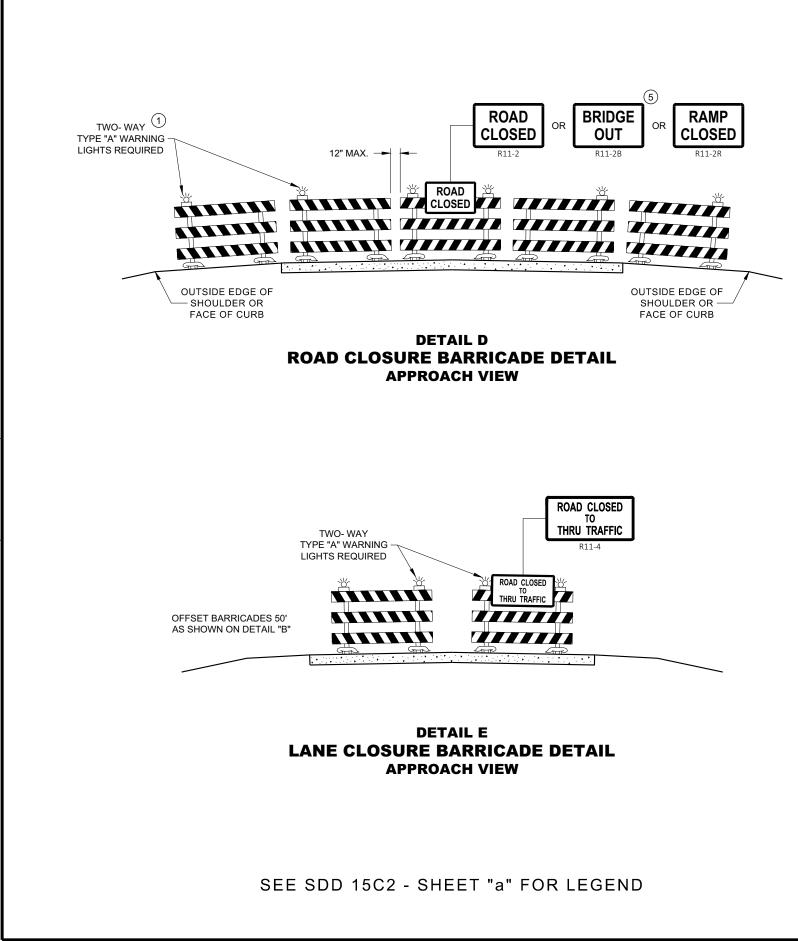
STATE TRAFFIC ENGINEER OF DESIGN

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GENERAL NOTES

FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SUPPORTS.

FULL ROAD CLOSURES.

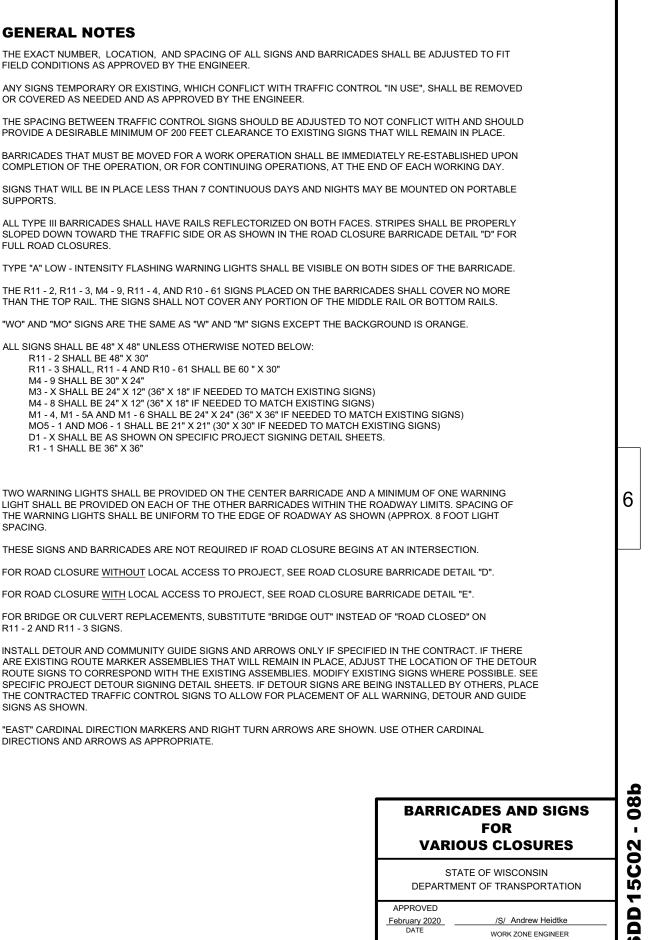
THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

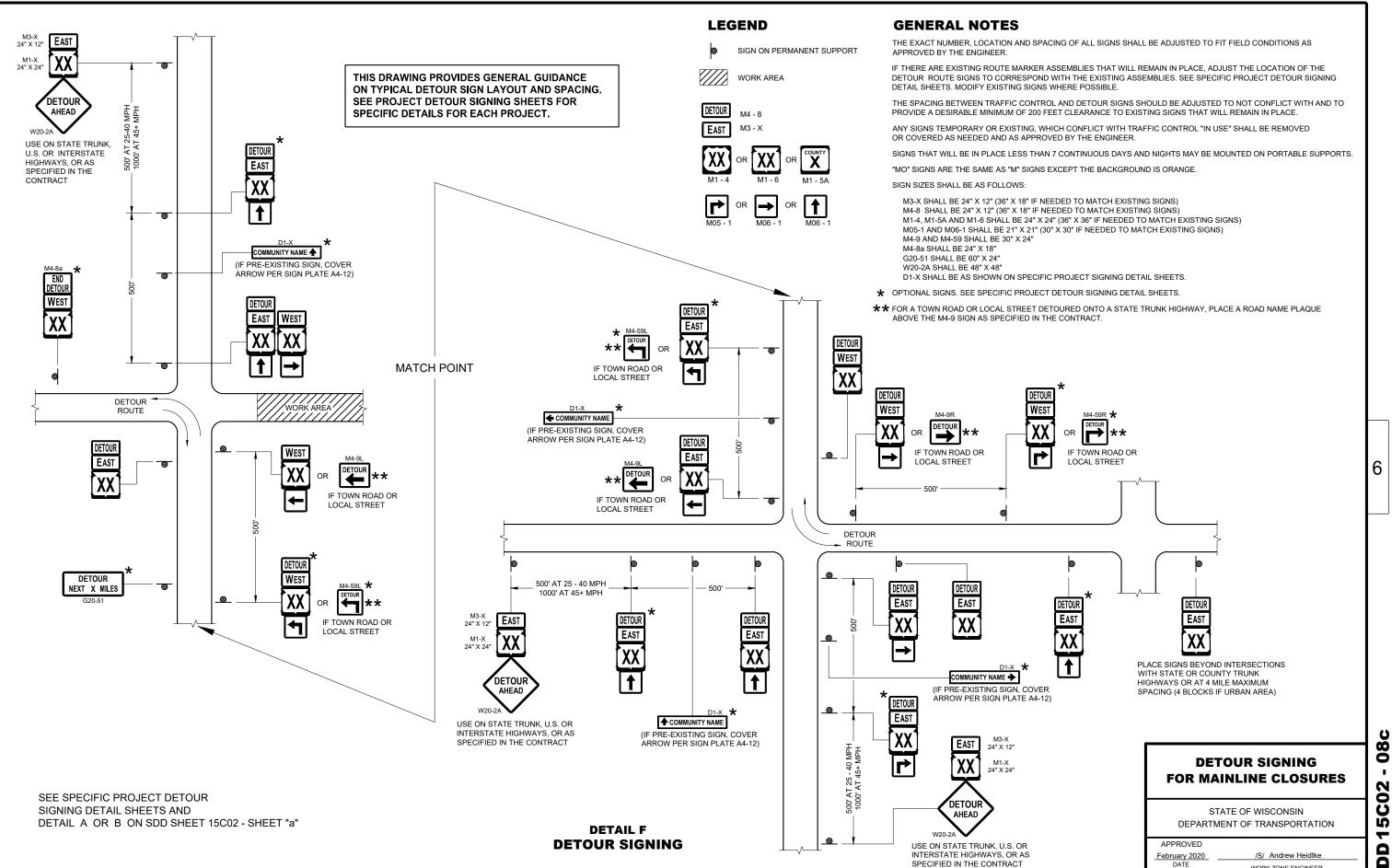
- ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW: R11 - 2 SHALL BE 48" X 30"
 - R11 3 SHALL, R11 4 AND R10 61 SHALL BE 60 " X 30" M4 - 9 SHALL BE 30" X 24"
 - M3 X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
 - M4 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

 - 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 THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING
- (2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT 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 SIGNS AS SHOWN.
- (7)"EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

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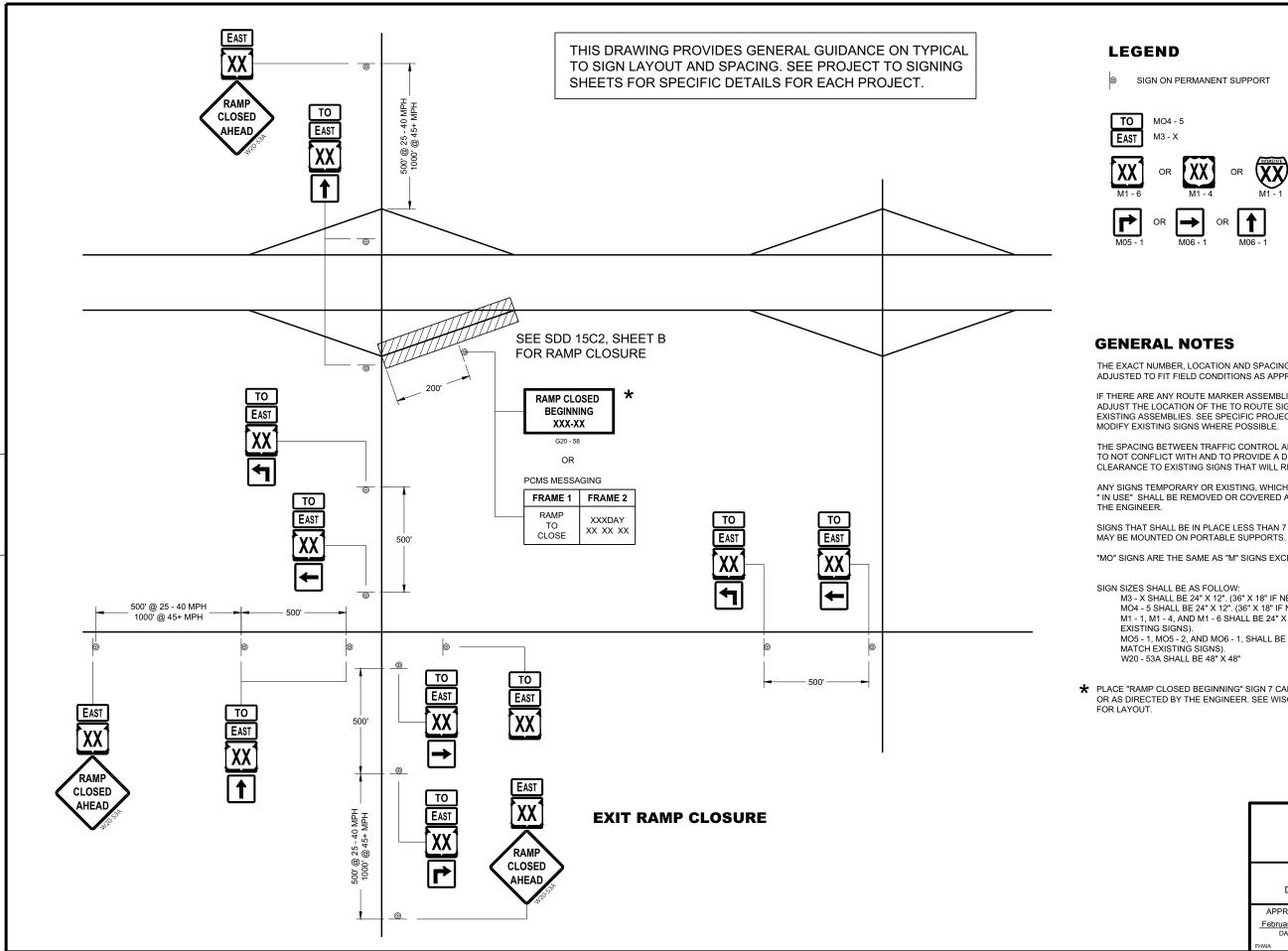
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February 2020 DATE

WORK ZONE ENGINEER

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

IF THERE ARE ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE. ADJUST THE LOCATION OF THE TO ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS.

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

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

SIGNS THAT SHALL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS

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

M3 - X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS). MO4 - 5 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS). M1 - 1, M1 - 4, AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH

MO5 - 1, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO

★ PLACE "RAMP CLOSED BEGINNING" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES

ON RAMP LANE CLOSURE

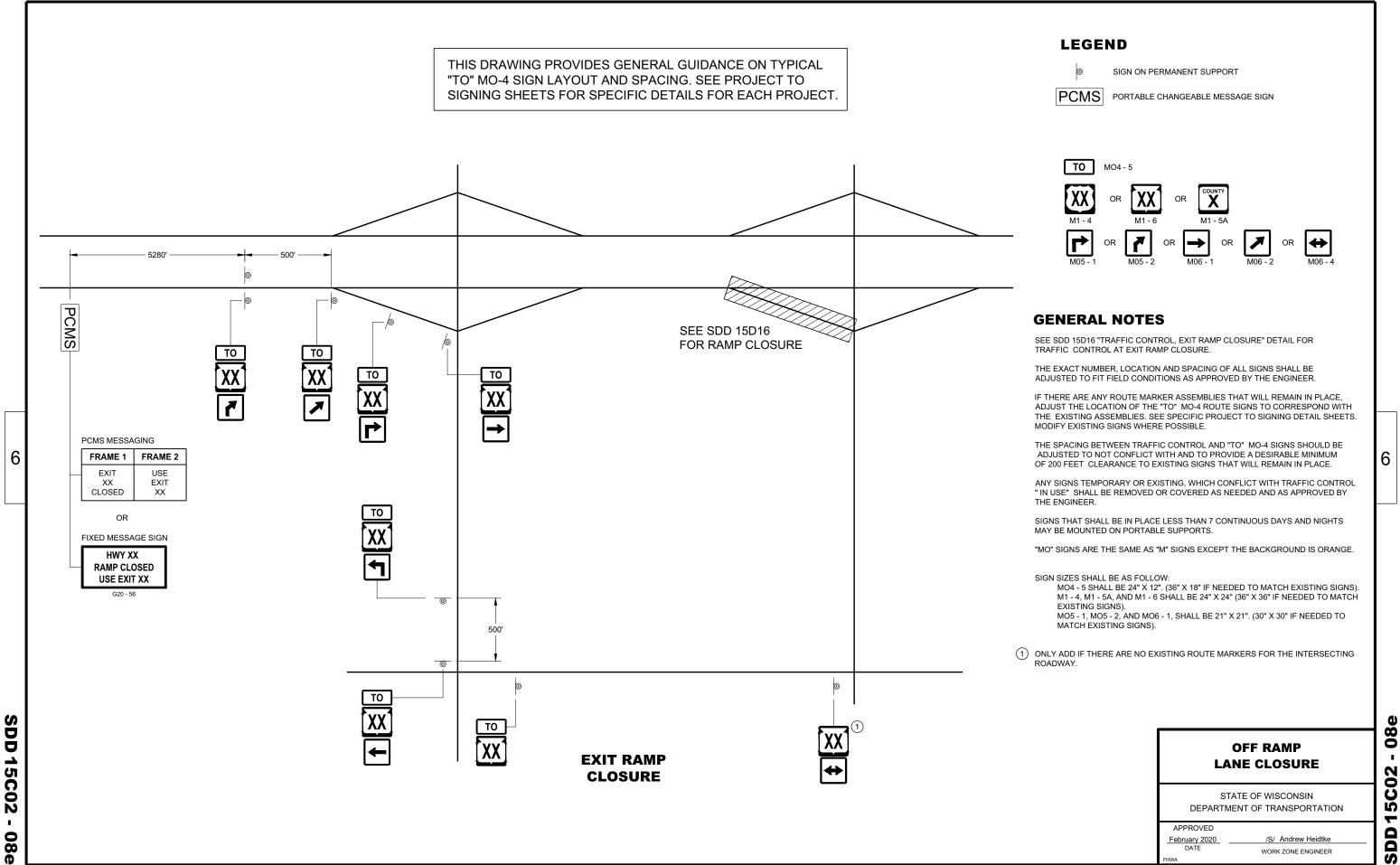
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2020 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER 6

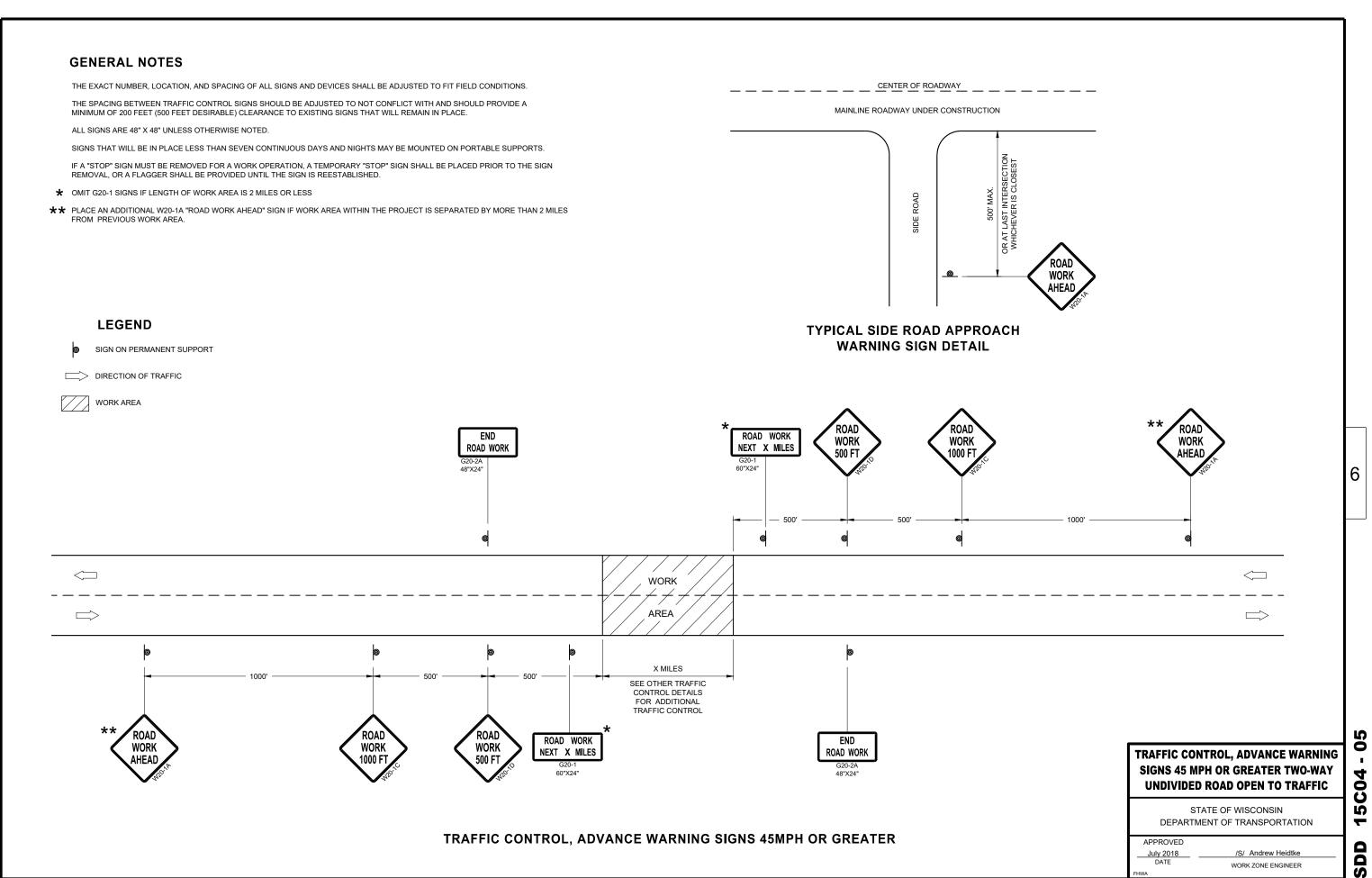
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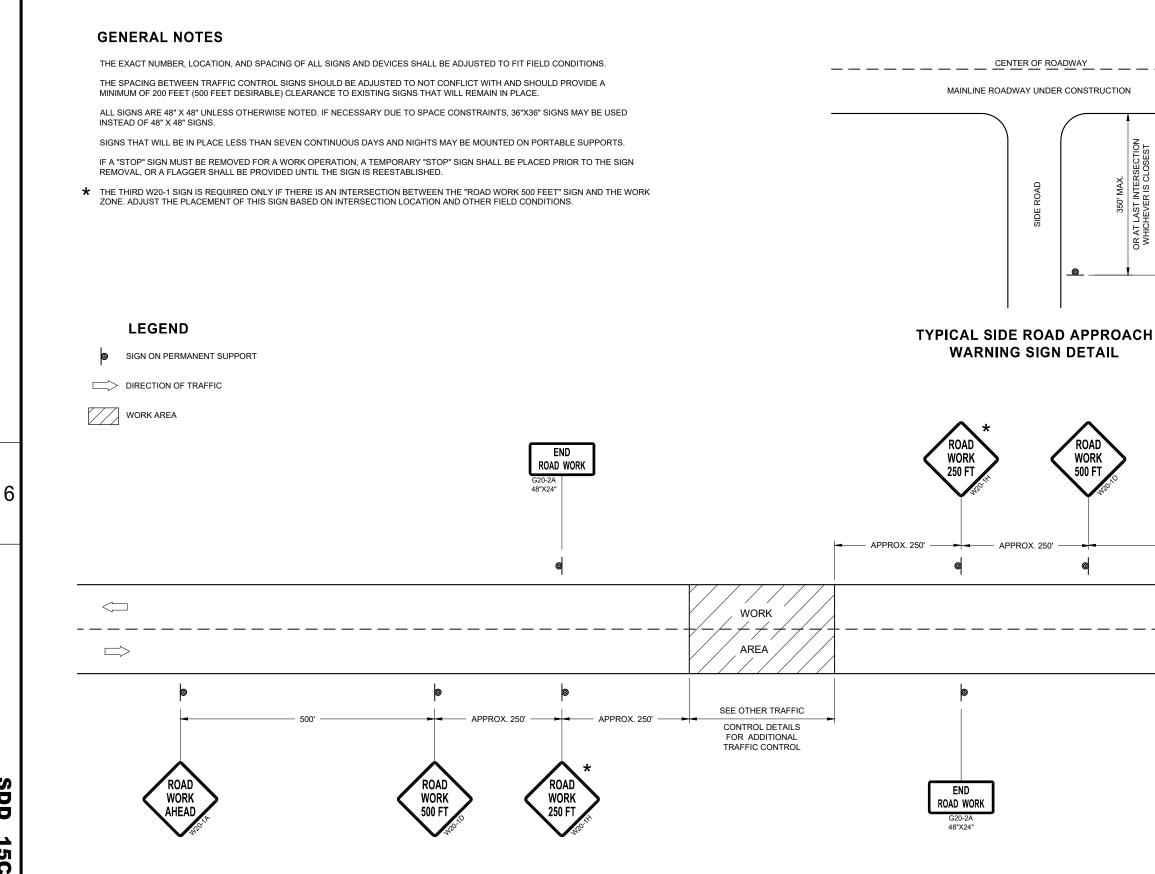
WORK ZONE ENGINEER

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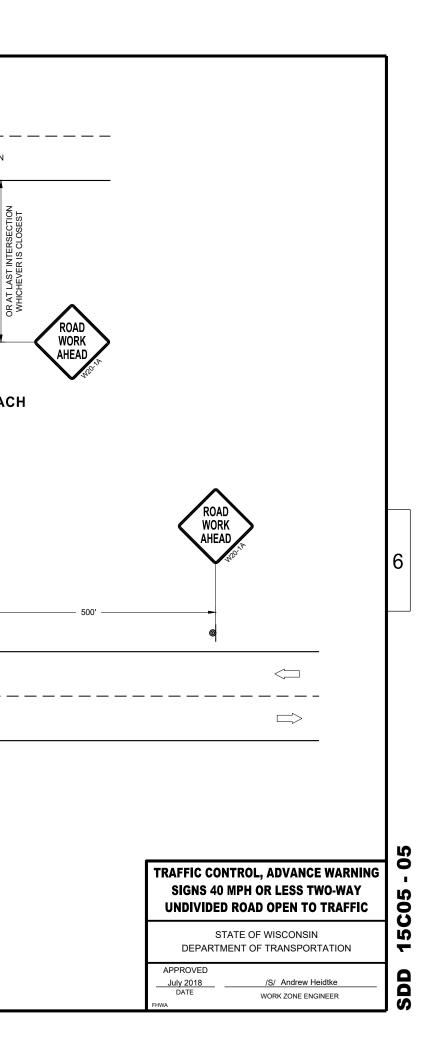


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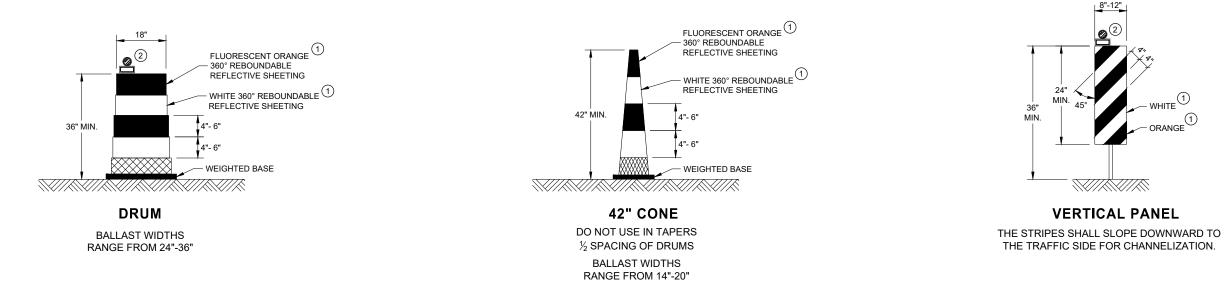


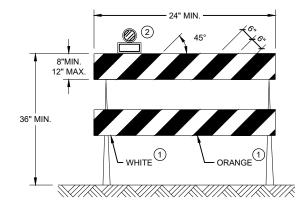
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS



GENERAL NOTES

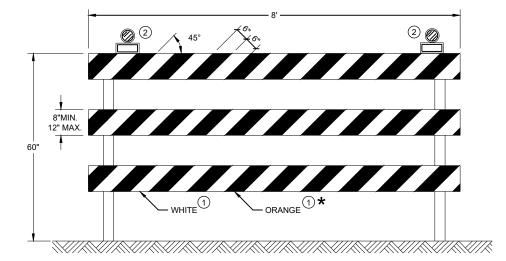
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

★ IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

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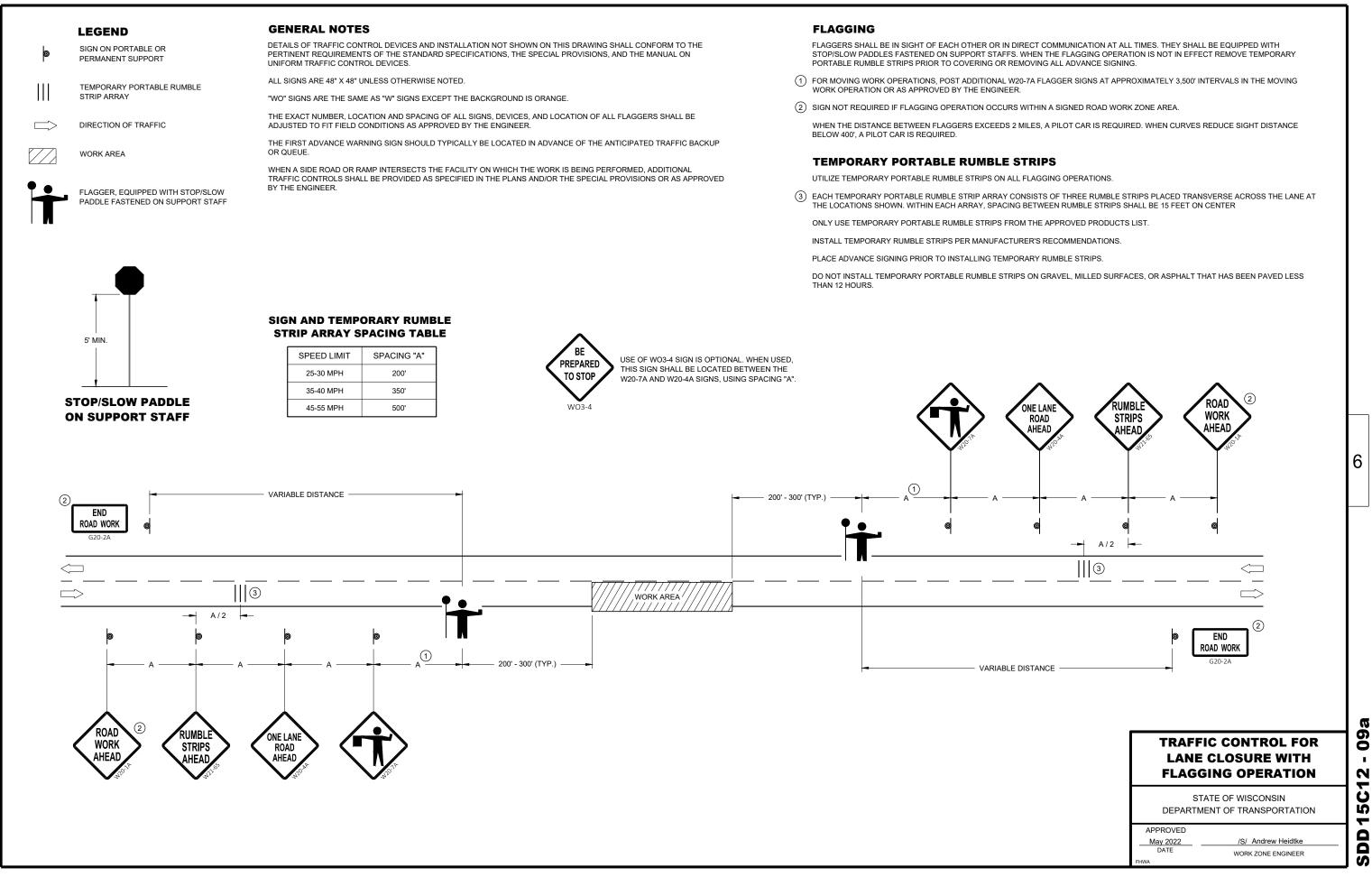
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CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2022 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER



GENERAL NOTES

ROAD

WORK

MI

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

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

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

RIGHT LANE

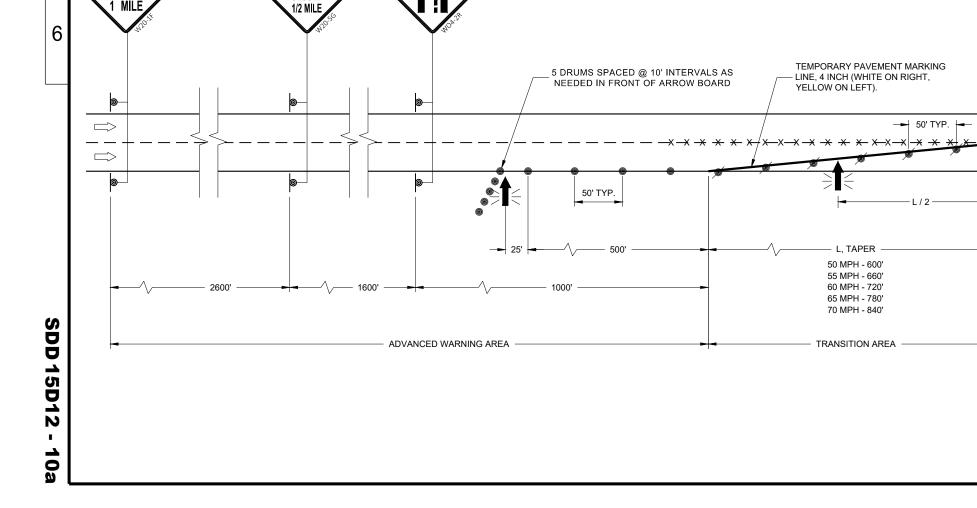
CLOSED

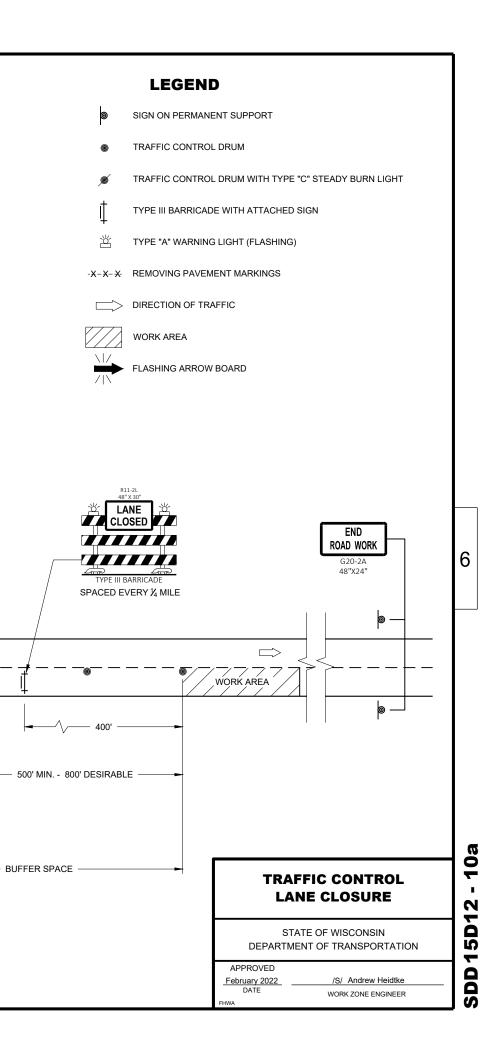
ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS

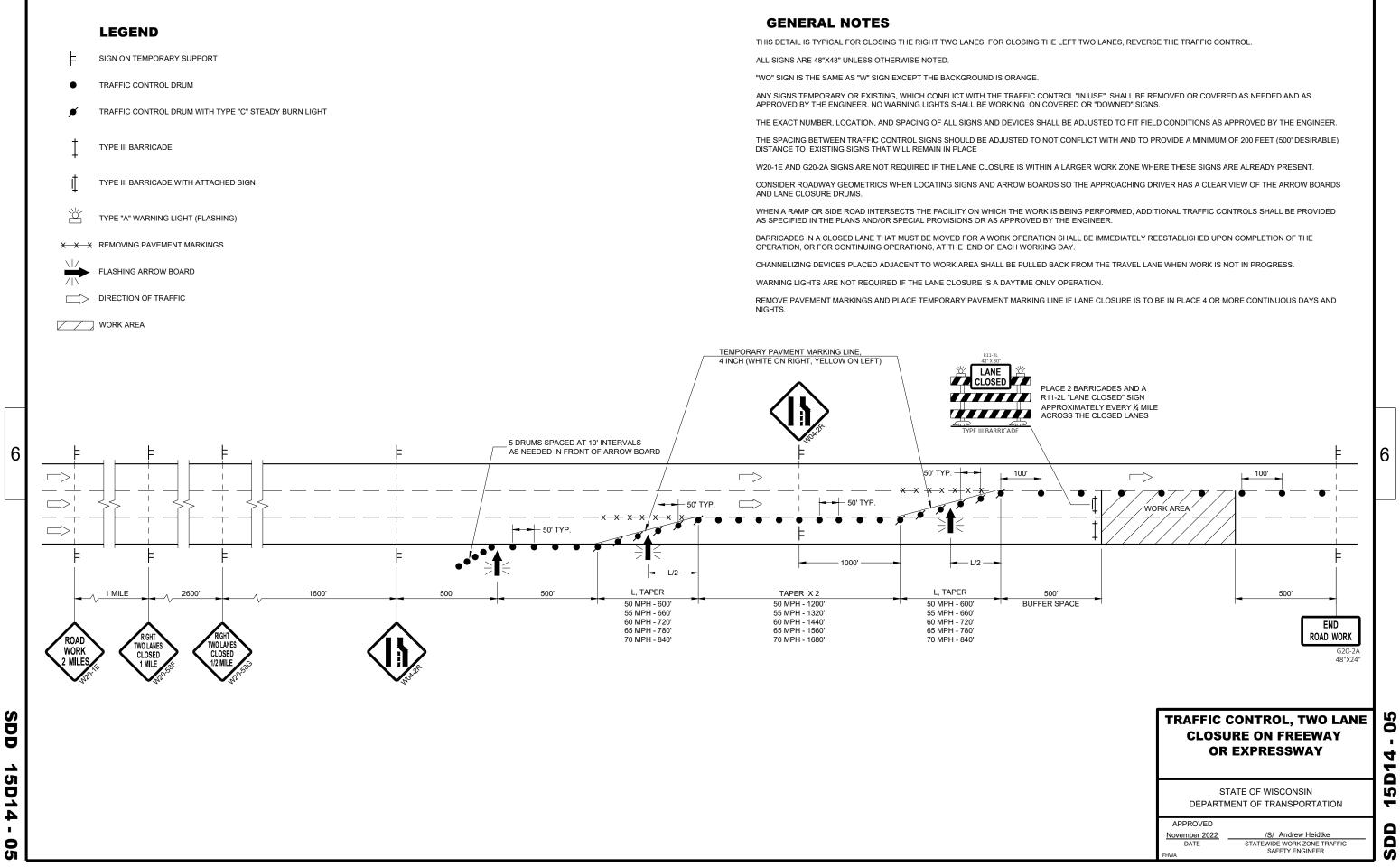
NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

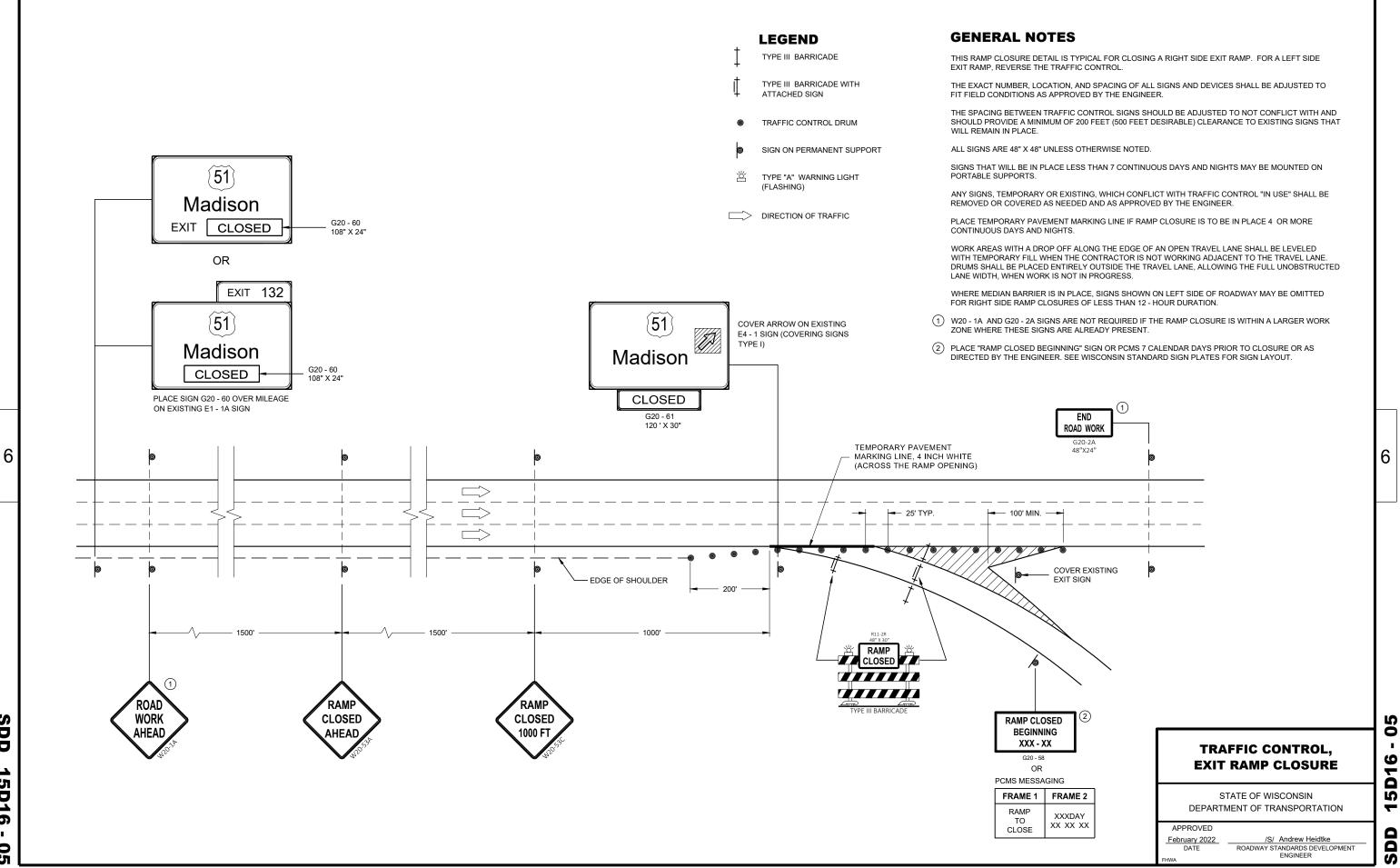
CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

— 100' TYP.

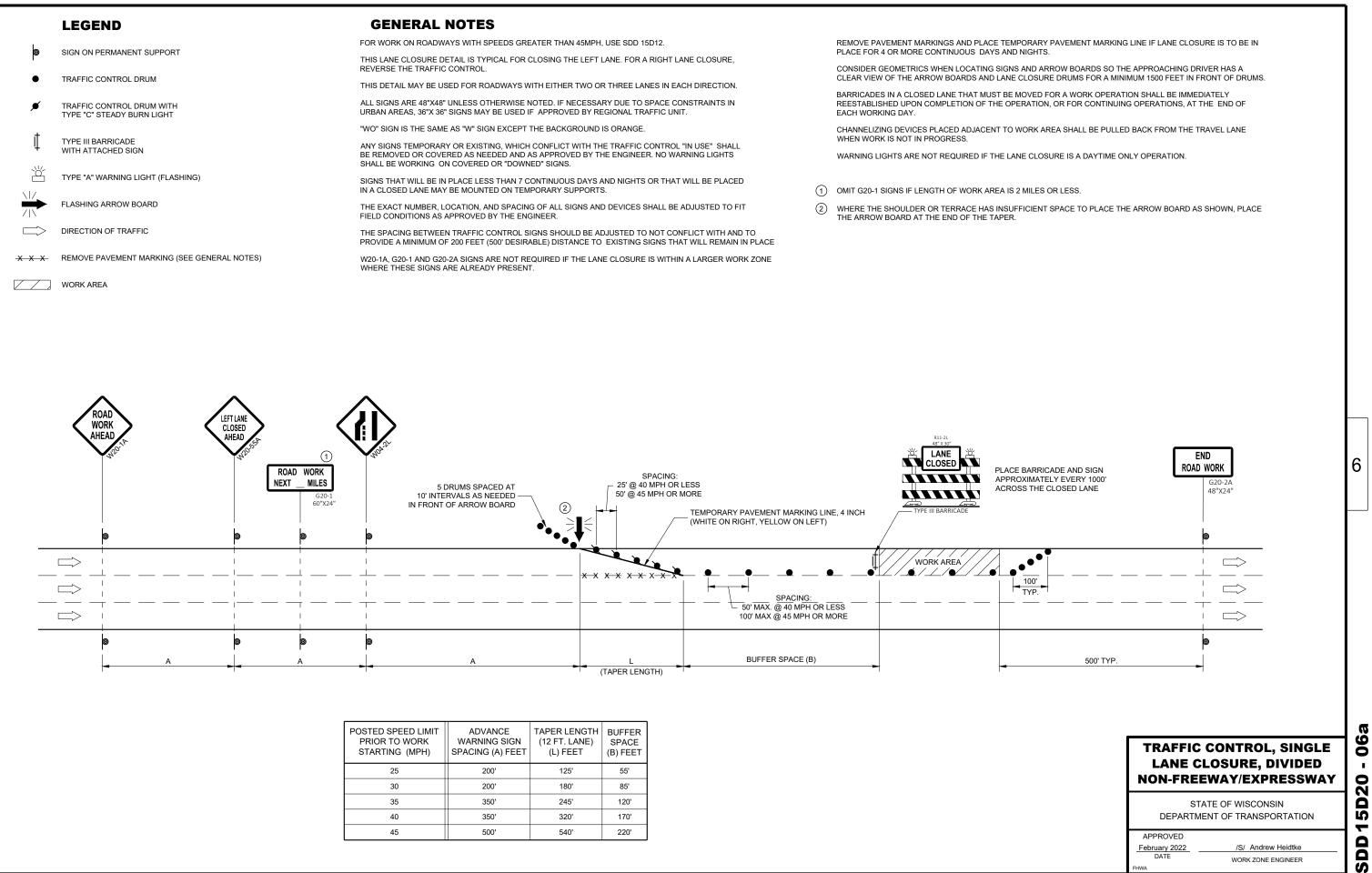






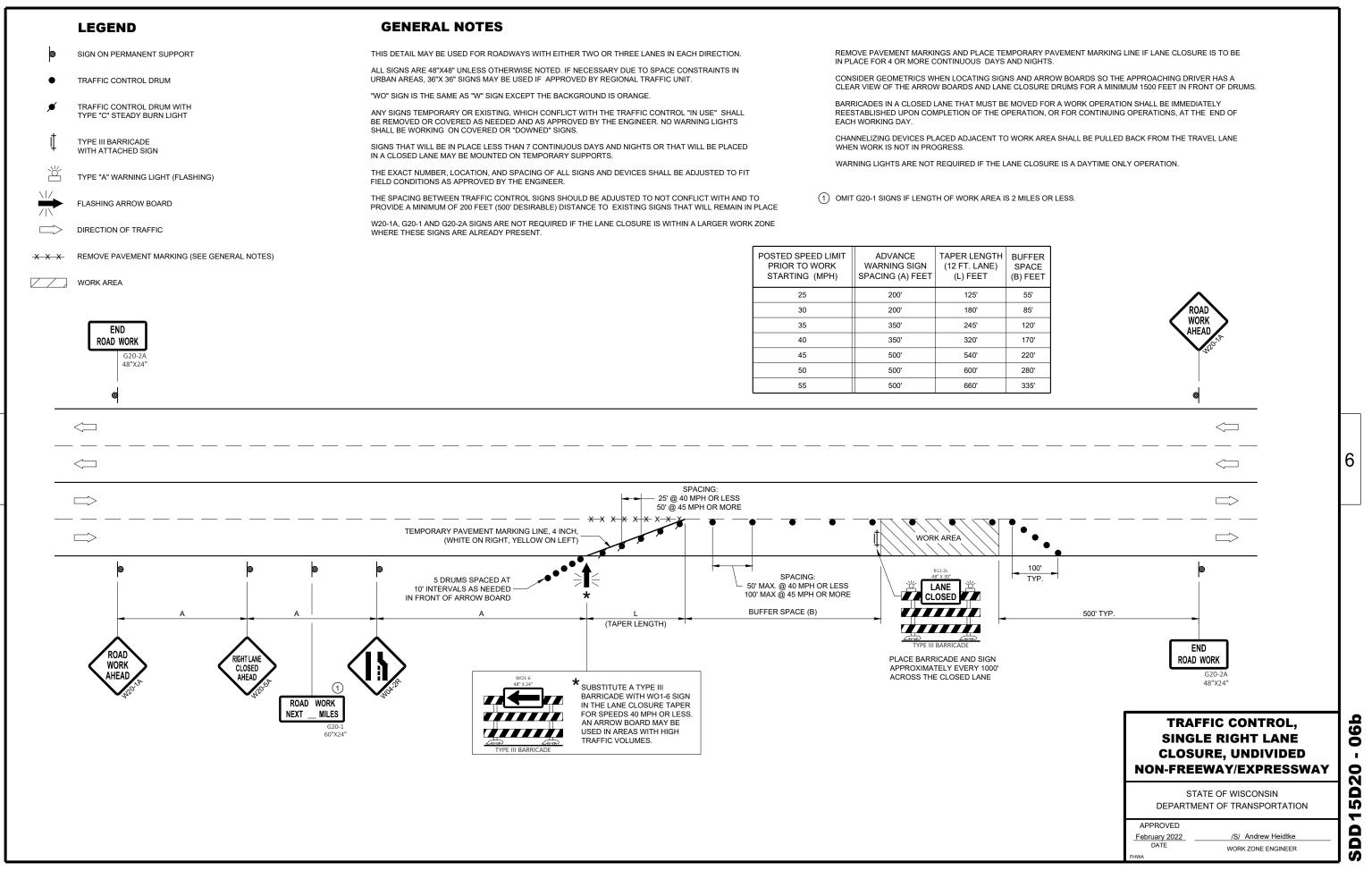


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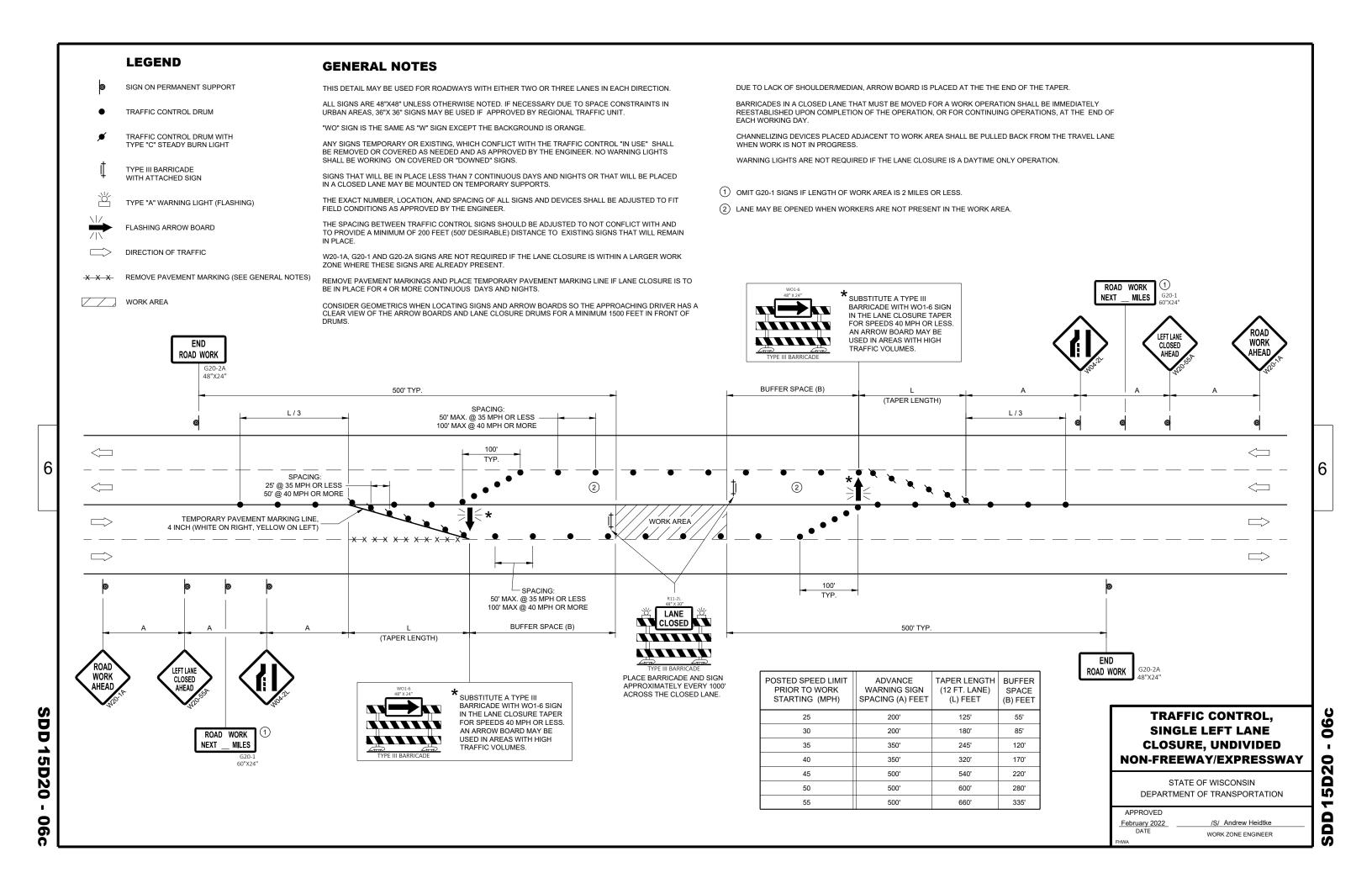


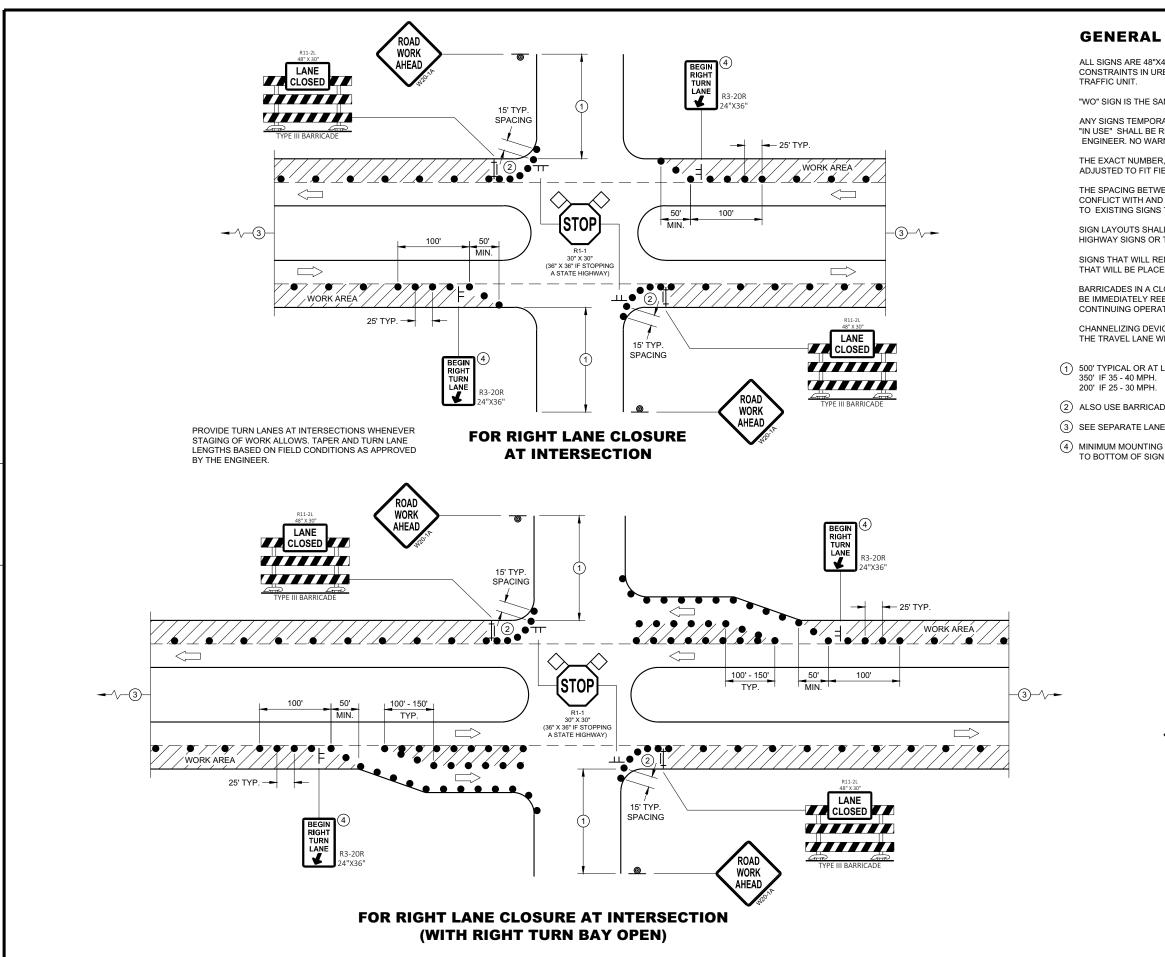
POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'

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SDD 15D20 - 06b





GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER, NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

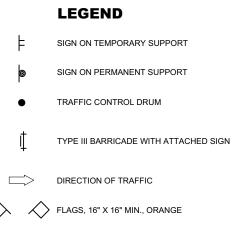
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION)



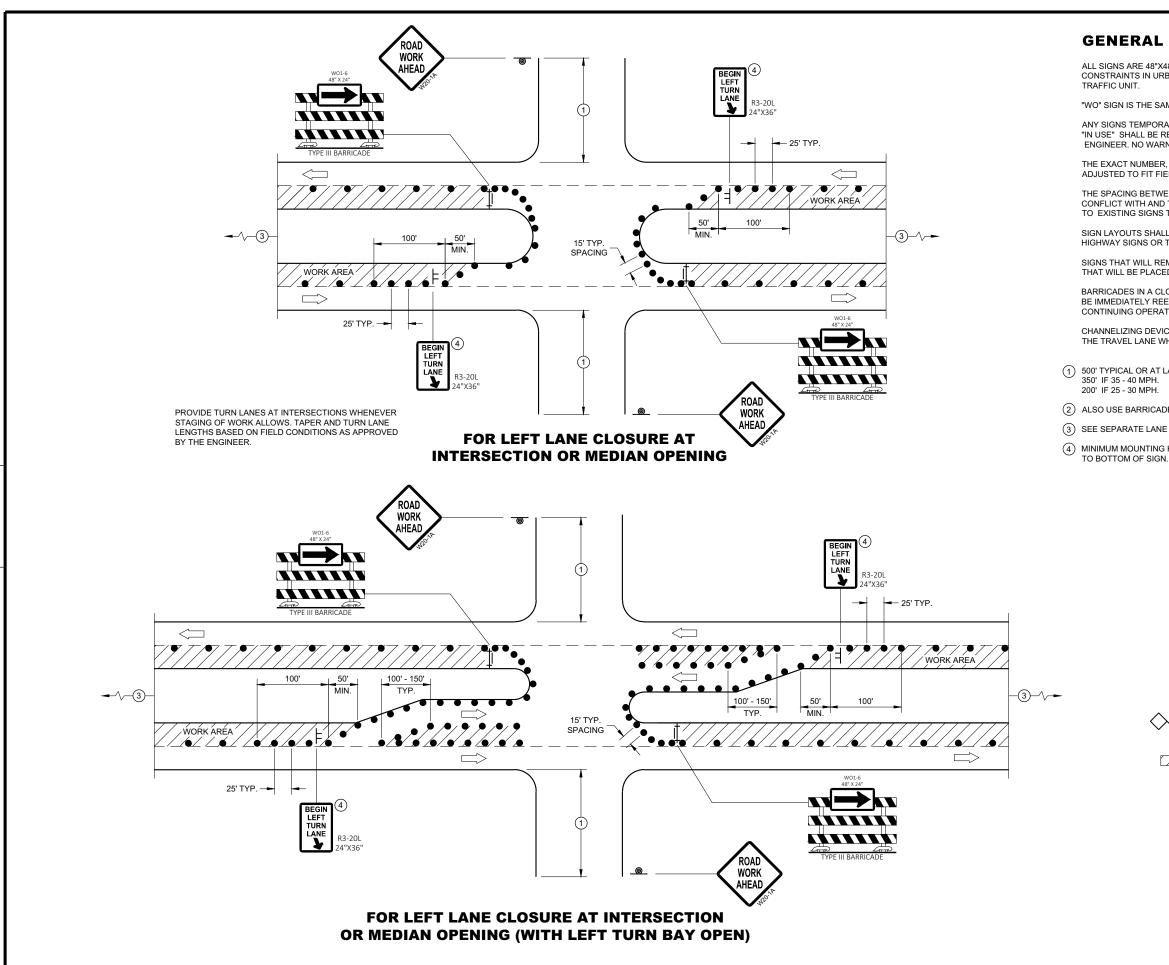
WORK AREA \Box

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TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE **RIGHT LANE CLOSURE**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



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GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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

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SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

1 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION)



LEGEND

TYPE III BARRICADE WITH ATTACHED SIGN



DIRECTION OF TRAFFIC



FLAGS, 16" X 16" MIN., ORANGE



TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE

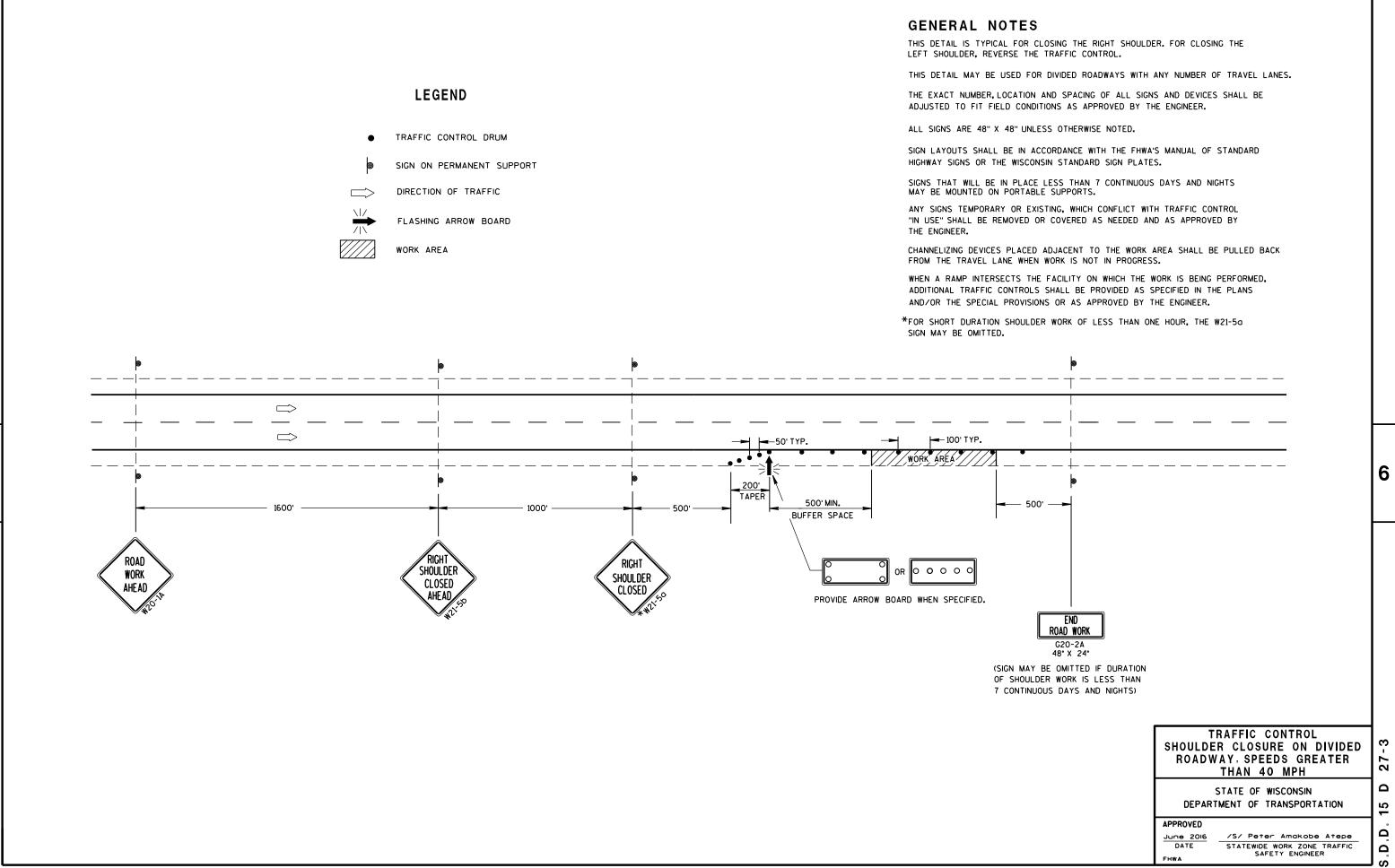
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED August 2020 DATE

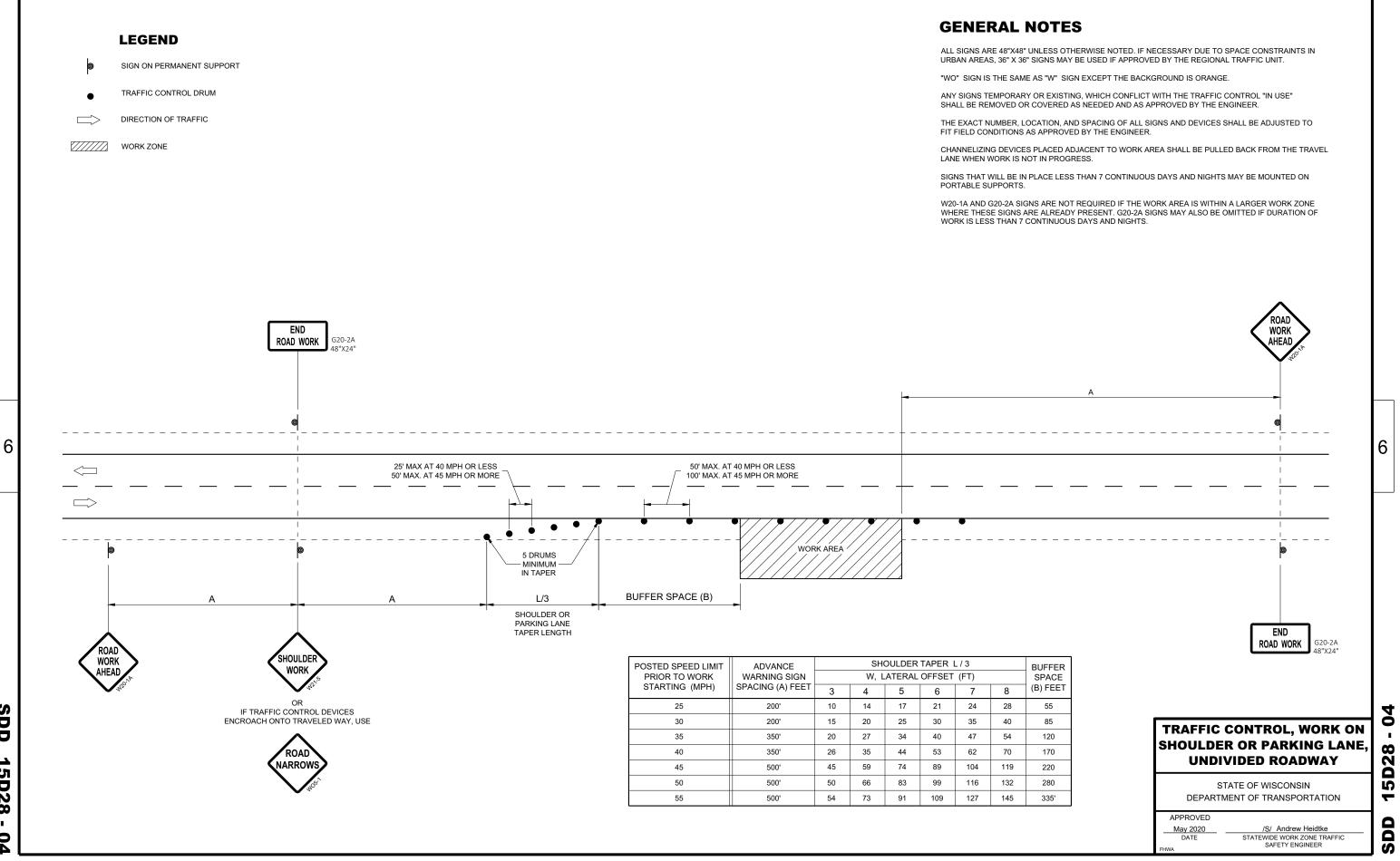
/S/ Andrew Heidtke WORK ZONE ENGINEER 6

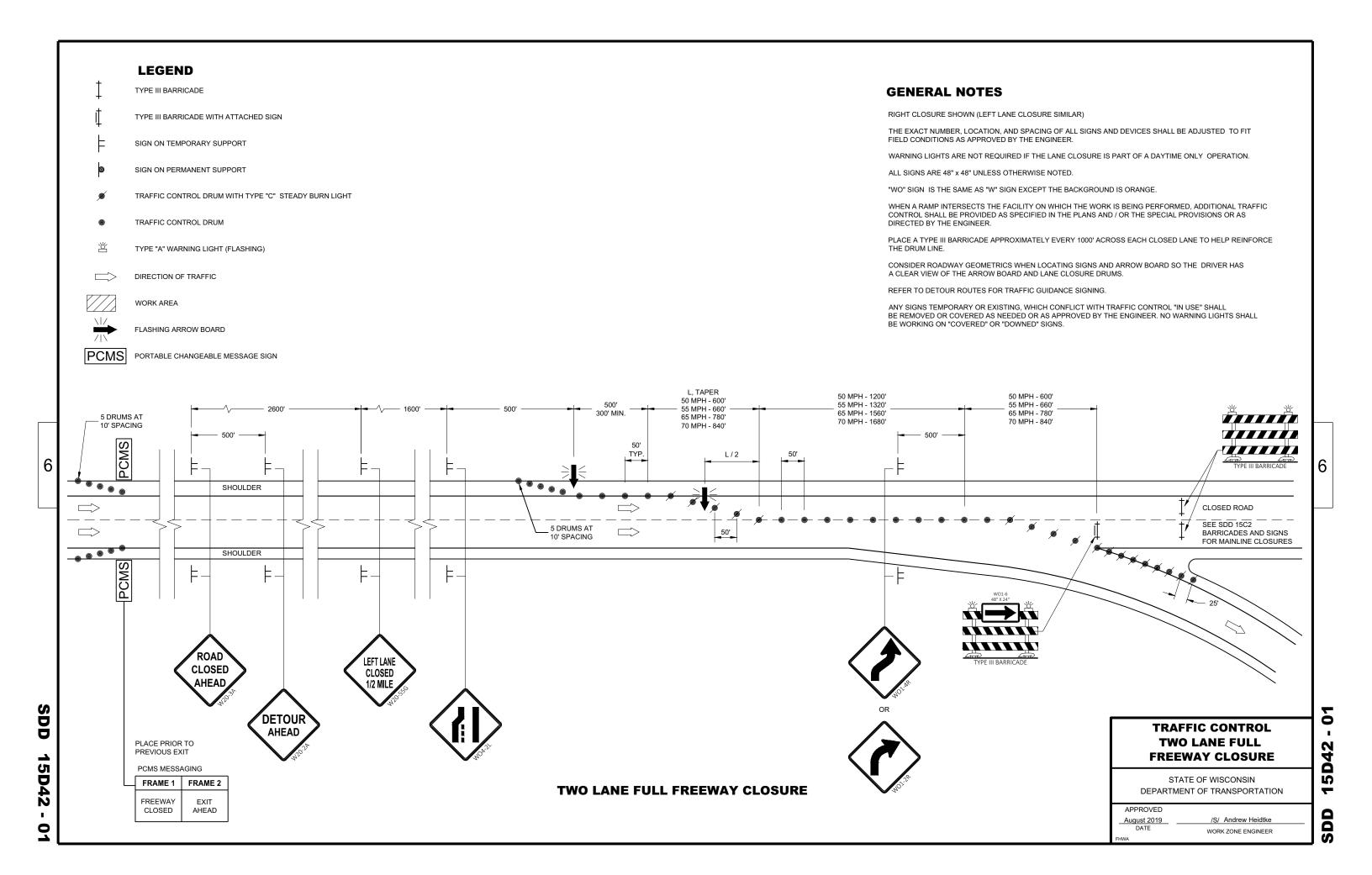
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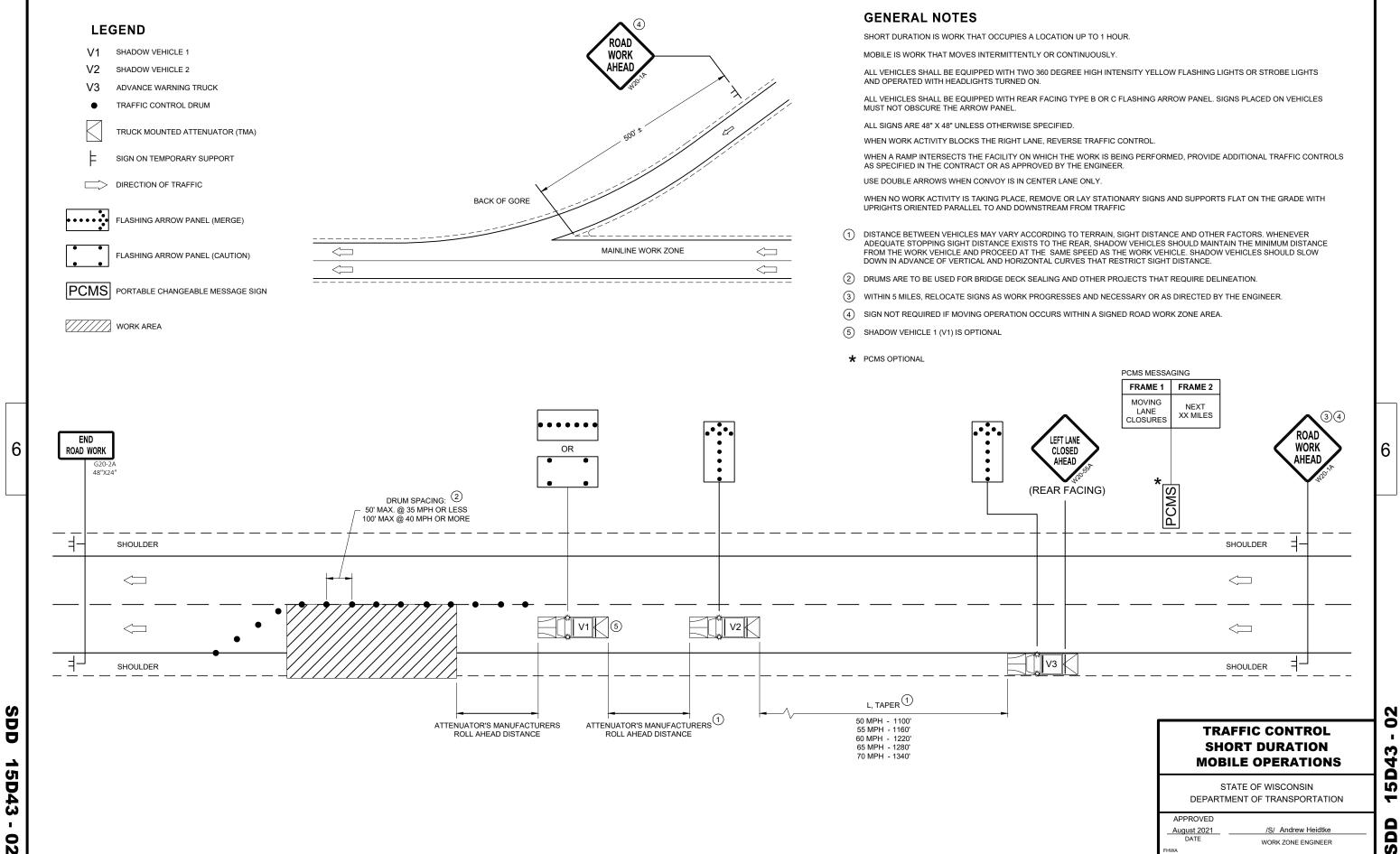
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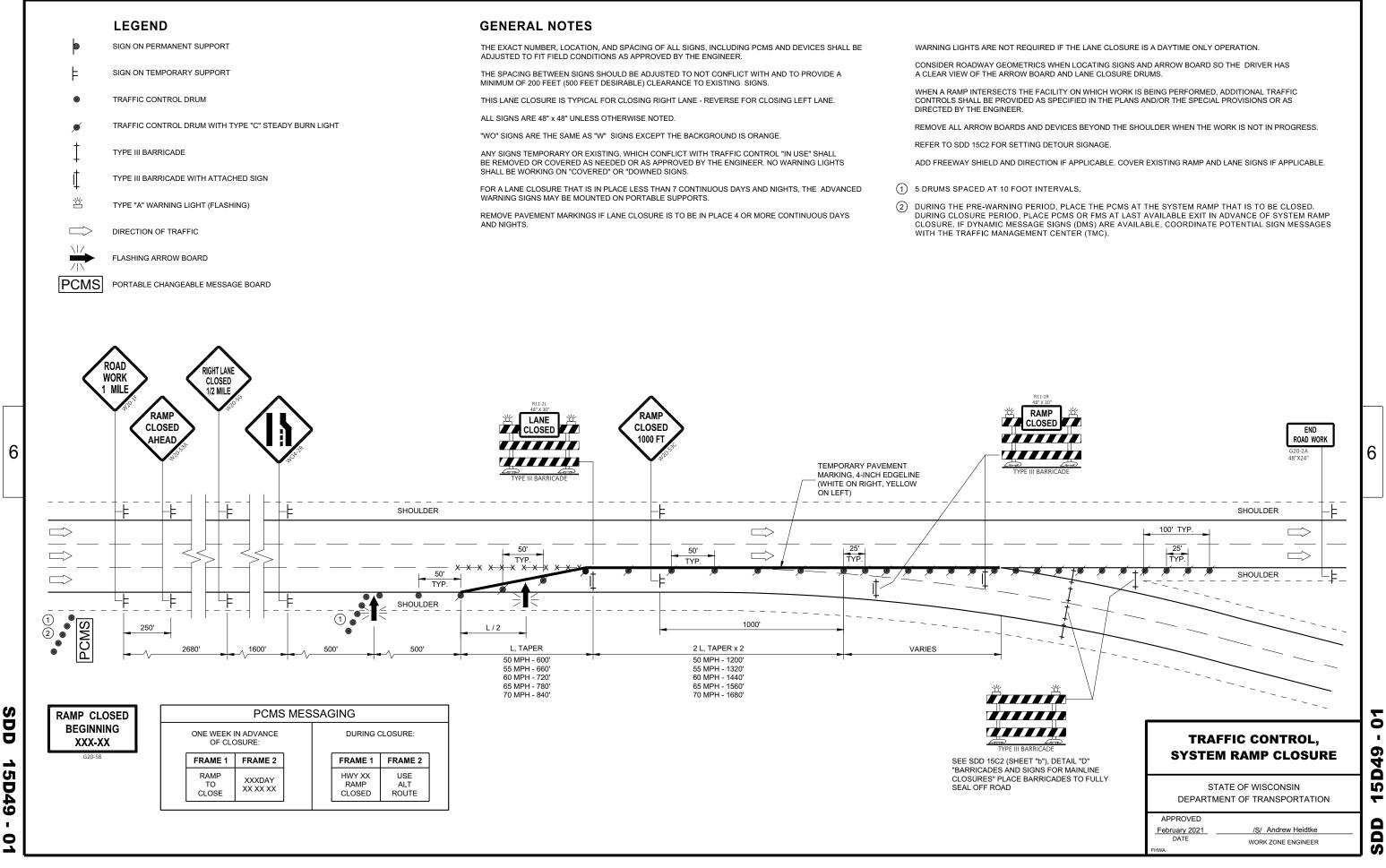
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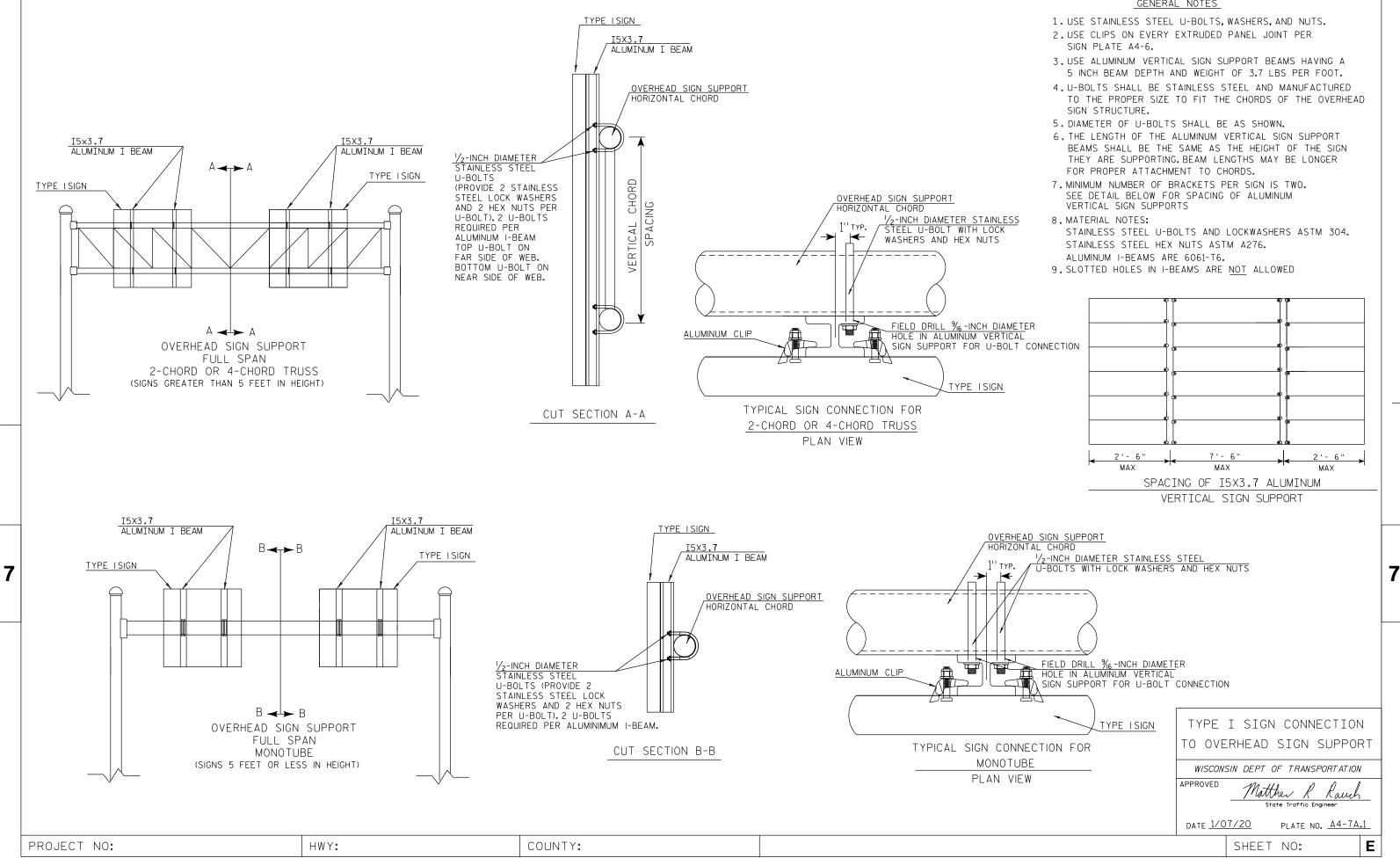




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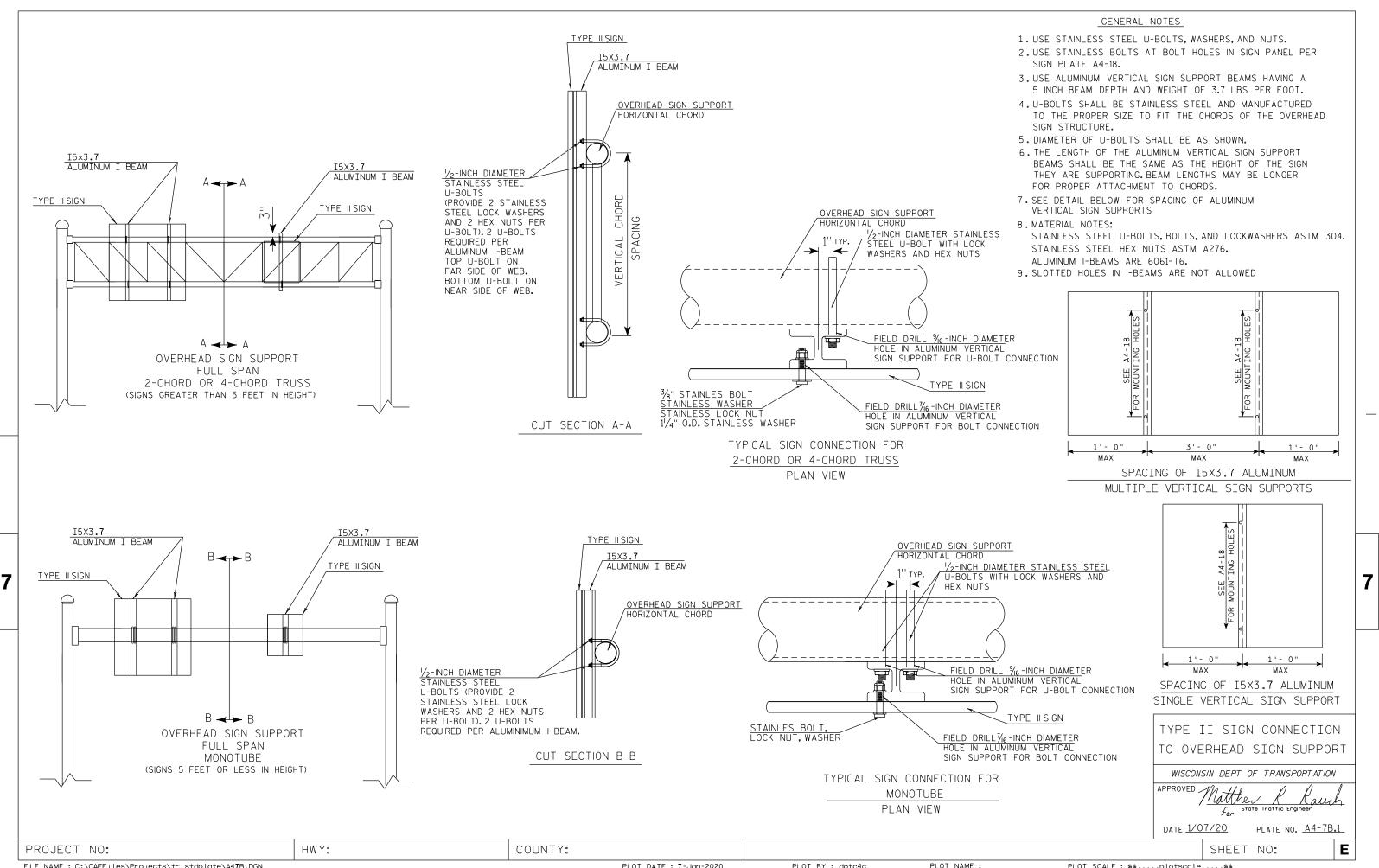
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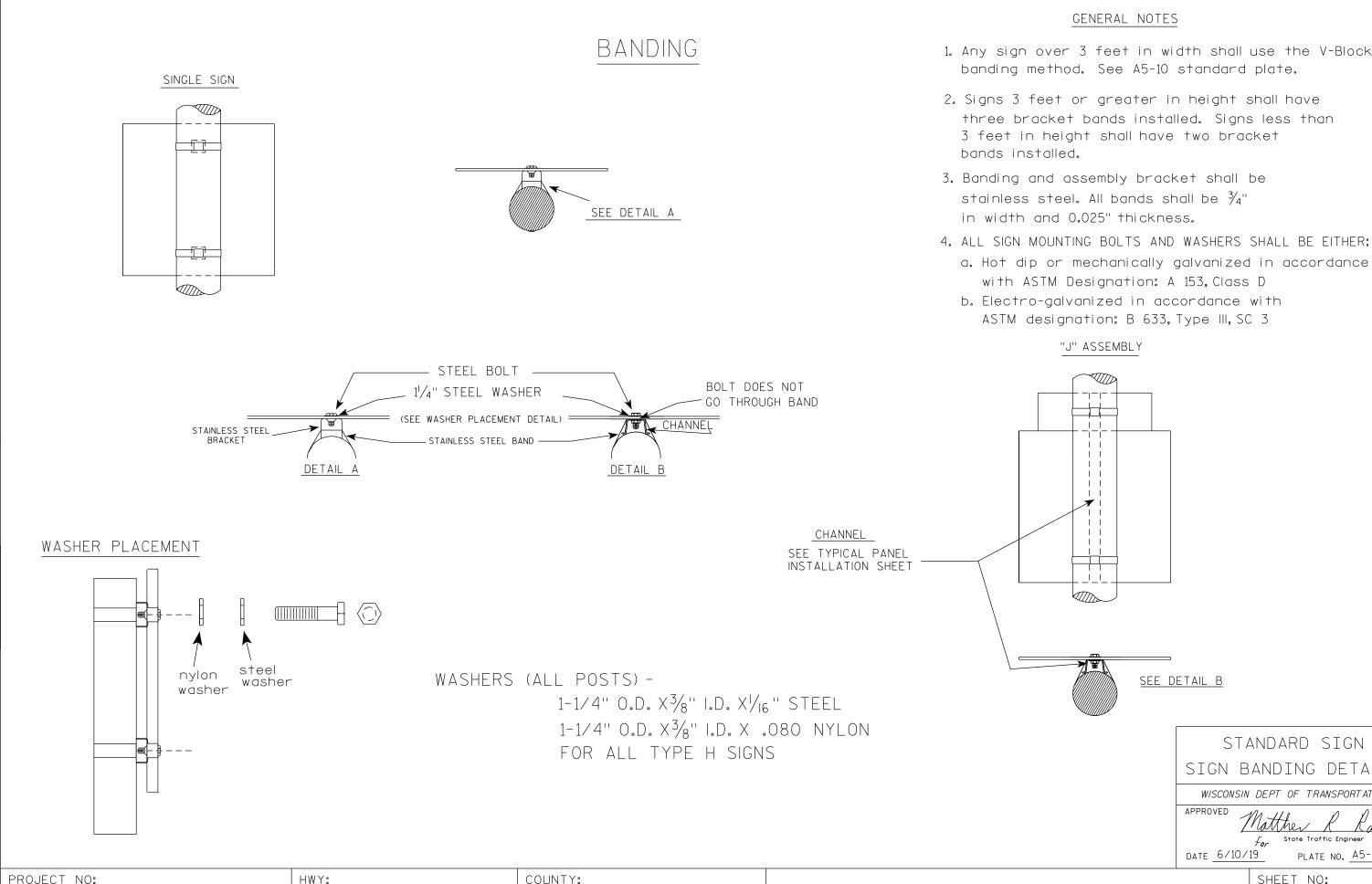
GENERAL NOTES



FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A47B.DGN

PLOT BY : dotc4c

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



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

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PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME :

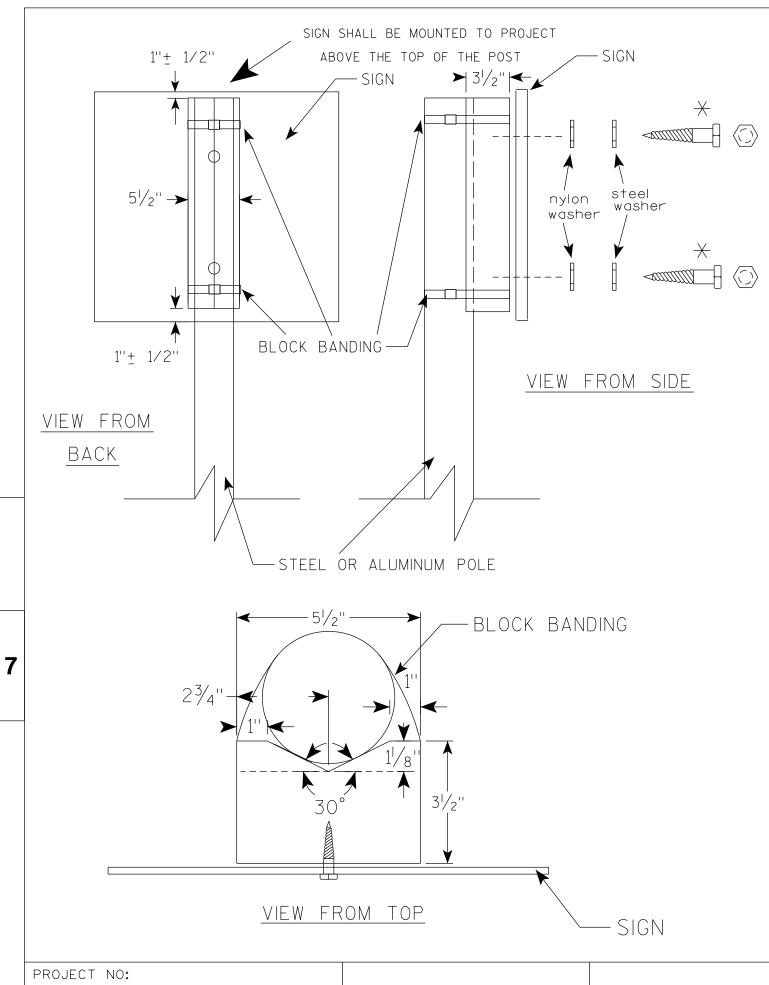
GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.

three bracket bands installed. Signs less than 3 feet in height shall have two bracket

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

	<u>SEE DETAIL B</u>
	STANDARD SIGN
	SIGN BANDING DETAILS
	WISCONSIN DEPT OF TRANSPORTATION
	APPROVED Matthe Rauch
	DATE 6/10/19 PLATE NO. 45-9.4
	SHEET NO: E
PLOT S	CALE : \$\$plotscale\$\$ WISDOT/CADDS SHEET 42



GENERAL NOTES

- WISDOT STANDARD SPECIFICATIONS
- AND 0.025" THICKNESS
- 9 S.F. 3 FASTENERS SHALL BE USED.
- 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 $\frac{1}{16}$ "
- OR TYPE E EACE SIGN

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A510.dgr

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE

2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, $\frac{3}{4}$ " WIDTH

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 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER: a. Hot dip or mechanically galvanized in accordance

8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X 3_{8} " I.D. X .080 FOR TYPE H

BLOCK BANDING DETAIL (V-BLOCK OPTION)
WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R Rauch
<i>for</i> State Traffic Engineer
DATE <u>4/19/2022</u> plate no. <u>45-10.3</u>
SHEET NO: E
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WISDOT/CADDS SHEET 42

SIGN REPAIR LOCATIONS

ID	COUNTY	HIGHWAY	LOCATION	STRUCTURE TYPE
S300009	KENOSHA	STH 165 W	AT RAMP TO IH 41 S	4 CHORD CANTILEVER TRUS
S300023	KENOSHA	IH 41 S	AT EXIT TO STH 158	4 CHORD CANTILEVER TRUS
\$300024		IH 41 S	1/2 M N OF STH 50	4 CHORD CANTILEVER TRUS
\$300217		118TH AVE S	JUST N OF STH 50	MONOTUBE FULL SPAN
5300229		IH 41	IH 41, 0.75 M SOUTH OF CTH KR	BUTTERFLY
S300223		IH 94 W	ON EXIT RAMP TO STH 165	2 CHORD FULL SPAN
S300231		IH 41 S	ON EXIT RAMP TO STH 105	2 CHORD FULL SPAN
S300238		IH 94 W	EXIT RAMP TO STH 165	2 CHORD FULL SPAN
S300248		CTH ML SB	CTH ML SB AT STH 165 RAB	
		W FRONTAGE RD S		2 CHORD FULL SPAN
	KENOSHA		JUST N OF 71ST ST	CANTILEVER MAST ARM
	MILWAUKEE	IH 43	JUST NORTH OF NATIONAL AVE	4 CHORD FULL SPAN
	MILWAUKEE	STH 175 N	0.25 M S OF LLOYD ST	4 CHORD FULL SPAN
-	MILWAUKEE	IH 41 N	JUST S OF GREENFIELD AVE.	4 CHORD FULL SPAN
	MILWAUKEE	IH 41 S	1 M N OF GREENFIELD AVE EXIT	4 CHORD CANTILEVER TRUS
-	MILWAUKEE	IH 41 S	ON E-S ZOO INTERCHANGE SYSTEM RAMP	4 CHORD CANTILEVER TRUS
	MILWAUKEE	IH 41 N	JUST S OF WISCONSIN AVE	4 CHORD CANTILEVER TRUS
S400056	MILWAUKEE	IH 43 N	ON EXIT RAMP TO SILVER SPRING DR	3 CHORD FULL SPAN
-	MILWAUKEE	IH 43 SB RAMP	EXIT RAMP TO SILVER SPRING	CANTILEVER MAST ARM
	MILWAUKEE	IH 41 S	AT EXIT RAMP TO LINCOLN AVE	4 CHORD CANTILEVER TRUS
S400091	MILWAUKEE	IH 94 E C-D RAMP	JUST W STH 100	4 CHORD FULL SPAN
S400097	MILWAUKEE	IH 94 E	0.4 M W OF IH 41	4 CHORD FULL SPAN
S400102	MILWAUKEE	IH 94 E	AT USH 45	4 CHORD CANTILEVER TRUS
S400105	MILWAUKEE	IH 94 E	0.25 M W OF 84TH ST	4 CHORD FULL SPAN
S400110	MILWAUKEE	IH 94 E	ON SYSTEM RAMP TO IH 41 S	BRIDGE MOUNTED
S400114	MILWAUKEE	IH 94 E	JUST W OF S 92ND ST BRIDGE	4 CHORD CANTILEVER TRUS
S400115	MILWAUKEE	IH 94 E	JUST W OF EXIT RAMP TO 84TH ST	4 CHORD CANTILEVER TRUS
S400118	MILWAUKEE	IH 94 E	AT 84TH ST EXIT RAMP	4 CHORD CANTILEVER TRUS
S400124	MILWAUKEE	IH 94 E	JUST E OF 84TH ST	4 CHORD CANTILEVER TRUS
S400131	MILWAUKEE	IH 94 E	JUST W OF 84TH ST	4 CHORD CANTILEVER TRUS
S400185	MILWAUKEE	STH 145 S	JUST W OF W WALNUT ST	4 CHORD FULL SPAN
S400193	MILWAUKEE	LINCOLN MEMORIAL DR S	JUST N OF MICHIGAN ST	MONOTUBE FULL SPAN
S400221	MILWAUKEE	IH 43 S	JUST E OF 68TH ST	BUTTERFLY
S400225	MILWAUKEE	IH 43 S	1/4 M N OF NORTH AVE	BUTTERFLY
	MILWAUKEE	IH 43 N	1/4 M S OF KEEFE AVE	BUTTERFLY
	MILWAUKEE	STH 175 S	1/4 M N OF WELLS ST	BUTTERFLY
	MILWAUKEE	IH 41 N	1/4 M S OF WASHINGTON BLVD	BUTTERFLY
	MILWAUKEE	CTHYW	JUST E OF STH 794	CANTILEVER MAST ARM
	MILWAUKEE	STH 175 N	JUST S OF CANAL ST EXIT	3 CHORD FULL SPAN
	MILWAUKEE	STH 175 N	AT GORE TO IH 94 EB/WB RAMPS	3 CHORD FULL SPAN
	MILWAUKEE	STH 175 K	AT EXIT TO MILLER PARK	3 CHORD FULL SPAN
	MILWAUKEE	STH 175 S	JUST NORTH OF NATIONAL AVE	3 CHORD FULL SPAN
	MILWAUKEE	STH 145 N	AT EXIT TO PARK PLACE	3 CHORD FULL SPAN
	MILWAUKEE	STH 175 N	AT EXIT TO PAIN FLACE	4 CHORD CANTILEVER TRUS
	MILWAUKEE	GOOD HOPE RD E	JUST W OF USH 145	4 CHORD CANTILEVER TRUS
-				4 CHORD FULL SPAN 4 CHORD FULL SPAN
-	MILWAUKEE	IH 43 S		
-		STH 175 S	500' NORTH OF VLIET ST	4 CHORD FULL SPAN
			JUST SOUTH OF EDGERTON AVE	2 CHORD FULL SPAN
		W WATERTOWN PLANK RD W	1/4 M E OF USH 45 RAMP	2 CHORD CANTILEVER TRUS
	MILWAUKEE	IH 43 S	JUST N OF LOCUST ST.	4 CHORD FULL SPAN
	MILWAUKEE	IH 43 N	0.75 M S OF MCKINLEY AVE	4 CHORD FULL SPAN
-	MILWAUKEE	IH 43 N	AT EXIT RAMP TO FOND DU LAC AVE	4 CHORD CANTILEVER TRUS
-	MILWAUKEE	IH 43 N	500' N OF WALNUT ST.	4 CHORD CANTILEVER TRUS
	MILWAUKEE	IH 43 S	1/4 M N OF HIGHLAND AVE	4 CHORD FULL SPAN
S400512	MILWAUKEE	IH 43 S	1/4 M N OF I-94	4 CHORD FULL SPAN
S400514	MILWAUKEE	IH 94 W	0.1 MILE E OF 25TH ST	4 CHORD CANTILEVER TRUS
S400516	MILWAUKEE	IH 94 W	0.5 M E OF CLYBOURN ST	4 CHORD CANTILEVER TRUS
S400533	MILWAUKEE	IH 794 E	PLANKINTON EXIT RAMP AT 6TH STREET	4 CHORD FULL SPAN
	MILWAUKEE	IH 794 E	AT EXIT TO PLANKINTON AVE	4 CHORD FULL SPAN
S400536				
	MILWAUKEE	IH 41 S	AT EXIT TO LAYTON AVE	4 CHORD FULL SPAN
S400573	MILWAUKEE MILWAUKEE	IH 41 S IH 43 S	AT EXIT TO LAYTON AVE JUST S OF ENTRANCE RAMP FROM HOWARD AVE	4 CHORD FULL SPAN 4 CHORD FULL SPAN

GENERAL NOTES DRAWINGS SHALL NOT BE SCALED.

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

BEVEL EXPOSED EDGES OF CONCRETE $\frac{3}{4}$ " UNLESS OTHERWISE NOTED.

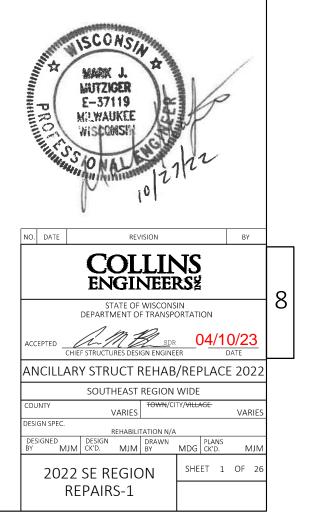
DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS AND AS-BUILT CONDITIONS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS FOR PROPOSED REPAIRS. PLANS AND SHOP DRAWINGS CAN BE FOUND IN THE HIGHWAY STRUCTURES INFORMATION SYSTEM (HSIS) DATABASE.

All field connections shall be made with \cancel{X} " diameter A325 high-tensile strength bolts unless otherwise shown or noted.

LIST (DF DRAWINGS
1.	2022 SE REGION REPAIRS-1
2.	2022 SE REGION REPAIRS-2
3.	FOUNDATION DETAILS
4.	TRUSS DETAILS
5.	SUPERSTRUCTURE DETAILS-1
6.	SUPERSTRUCTURE DETAILS-2
7.	SUPERSTRUCTURE DETAILS-3
8.	CATWALK DETAILS
9.	SIGN PANEL DETAILS-1
10.	SIGN PANEL DETAILS-2
11.	ELECTRICAL DETAILS
12.	SIGNAL DETAILS
13.	MISCELLANEOUS DETAILS
14.	S-30-0609
15.	S-40-0019
16.	S-40-0401
17.	S-40-0509
18.	S-40-0817
19.	S-40-0841
20.	S-66-0213
21.	S-66-0217
22.	S-66-0218
23.	S-67-0254
	S-67-0912
25.	S-67-0916
26.	S-67-0917

STATE PROJECT NUMBER

1000-20-64



STRUCTURE DESIGN CONTACTS: AARON BONK (608) 261-0261

CONSULTANT CONTACT: MARK MUTZIGER (414) 282-6905

SIGN REPAIR LOCATIONS	(CONT.)
	(00111)

	<u>ID</u>	COUNTY	HIGHWAY	LOCATION	STRUCTURE TYPE
ľ		MILWAUKEE	IH 94 E	AT THE SPLIT TO IH 94 NB/SB	4 CHORD FULL SPAN
		MILWAUKEE	IH 94 W	ON EXIT RAMP TO 25TH ST.	2 CHORD CANTILEVER MAST ARN
l		MILWAUKEE	IH 43	0.5 M S OF THE MARQUETTE INTERCHANGE ON HIGHRISE BRIDGE	BUTTERFLY
		MILWAUKEE	IH 43 S	ON EXIT RAMP TO STH 241	2 CHORD CANTILEVER TRUSS
		MILWAUKEE	STH 241 N	200 FT SOUTH OF CTH Y	CANTILEVER MAST ARM
ł		MILWAUKEE	IH 894 E	AT EXIT TO LOOMIS RD	4 CHORD CANTILEVER TRUSS
ł		MILWAUKEE	IH 43 N	S OF IH 894	4 CHORD FULL SPAN
ŀ		MILWAUKEE	IH 43 N	ON C-D RAMP TO HOLT AVE	4 CHORD FULL SPAN
ł		MILWAUKEE	IH 43 S	ON EXIT TO NATIONAL AVE/6TH	4 CHORD FULL SPAN
		MILWAUKEE	IH 43 N	AT EXIT RAMP TO KEEFE AVE	4 CHORD CANTILEVER TRUSS
		MILWAUKEE	IH 41 N	JUST N OF STH 119	4 CHORD FULL SPAN
		MILWAUKEE	STH 119	100' W OF 13TH ST	4 CHORD FULL SPAN
		MILWAUKEE	STH 119 W	0.5 M E OF EXIT RAMP TO IH 94 W	4 CHORD FULL SPAN
		MILWAUKEE	STH 145 S	AT EXIT TO W SILVER SPRING DR	4 CHORD FULL SPAN
		MILWAUKEE	W WATERTOWN PLANK RD E	0.25 M W OF IH 41	4 CHORD CANTILEVER TRUSS
	S400868	MILWAUKEE	WATERTOWN PLANK RD W	AT RAMP TO IH 41	4 CHORD CANTILEVER TRUSS
	S400949	MILWAUKEE	USH 18 E	JUST W OF STH 100	2 CHORD FULL SPAN
	S400990	MILWAUKEE	STH 100 N	1/8 M S OF CAPITOL DR	CANTILEVER MAST ARM
	S450002	OZAUKEE	IH 43 N	1/2 M S OF STH 57	4 CHORD FULL SPAN
li	S450206	OZAUKEE	STH 33 E	JUST W OF MARKET ST	2 CHORD FULL SPAN
l	S450212	OZAUKEE	STH 33 E	JUST E OF IH 43 N RAMPS	CANTILEVER MAST ARM
ľ	S510009	RACINE	STH 38 N	JUST E OF RAPIDS DR	MONOTUBE FULL SPAN
ľ	S510010	RACINE	STH 38 S	JUST E OF RAPIDS DR	MONOTUBE FULL SPAN
l	S510010	RACINE	STH 38 S	1/4 M W OF CTH MM	MONOTUBE FULL SPAN
ľ	S510011	RACINE	S MILWAUKEE AVE E	1/2 M W OF STH 36	4 CHORD CANTILEVER TRUSS
ŀ	S510010	RACINE	STH 20 W	JUST EAST OF CENTER ST	2 CHORD FULL SPAN
	S510233	RACINE		NEAR SCHOOL AT 86TH STREET	
ŀ			STH 11 E		CANTILEVER MAST ARM
		WALWORTH	STH 50 E	JUST W OF CTH H	CANTILEVER MAST ARM
		WALWORTH	STH 11 W	JUST SOUTH OF CTH DD	2 CHORD CANTILEVER MAST AR
		WASHINGTON	IH 41 N	0.3 M S OF USH 41/45 SPLIT	4 CHORD FULL SPAN
		WASHINGTON	USH 41 N/S	1/2 M N OF CTH Q	BUTTERFLY
		WASHINGTON	STH 145 W	JUST EAST OF IH 41 BRIDGE	2 CHORD FULL SPAN
		WASHINGTON	IH 41 N	AT EXIT RAMP TO STH 145	2 CHORD FULL SPAN
		WASHINGTON	STH 164 S	0.1 M N OF CTH Q	2 CHORD FULL SPAN
	S660218	WASHINGTON	CTHQW	JUST E OF STH 164	2 CHORD FULL SPAN
	S670001	WAUKESHA	IH 41 S	JUST N OF STH 100 (MAIN ST)	4 CHORD CANTILEVER TRUSS
	S670031	WAUKESHA	IH 94 E	JUST W OF BLUEMOUND RD	4 CHORD CANTILEVER TRUSS
	S670038	WAUKESHA	CTH Y N	0.1 M S OF I-94	3 CHORD FULL SPAN
	S670039	WAUKESHA	IH 94 W	1/4 M E OF CTH G	4 CHORD CANTILEVER TRUSS
[S670040	WAUKESHA	IH 94 W	1/8 M E OF CTH G	4 CHORD CANTILEVER TRUSS
ľ	S670200	WAUKESHA	IH 94	JUST E OF ELM GROVE RD	BUTTERFLY
	S670248	WAUKESHA	STH 190 W	JUST E OF BROOKFIELD RD	CANTILEVER MAST ARM
ľ	S670254	WAUKESHA	CTH Q E	JUST W OF STH 164	2 CHORD FULL SPAN
	S670262	WAUKESHA	STH 59 W	0.1 M E OF STH 164	CANTILEVER MAST ARM
l	S670262	WAUKESHA	СТН ЈЈ Е	JUST W OF STH 16	CANTILEVER MAST ARM
ŀ	S670275	WAUKESHA	IH 43 N	ON EXIT RAMP TO MOORLAND RD	MONOTUBE FULL SPAN
ŀ					
1	S670308	WAUKESHA	IH 94 W	AT GORE FOR EXIT RAMP TO CTH SS	4 CHORD CANTILEVER TRUSS
	S670310	WAUKESHA	IH 43 S	JUST N OF EXIT RAMP TO S MOORLAND RD	4 CHORD CANTILEVER TRUSS
	S670314	WAUKESHA	IH 94 W	EXIT TO MOORLAND ROAD S	4 CHORD CANTILEVER TRUSS
	S670408	WAUKESHA	IH 43 N	1/8 M N OF SUNNYSLOPE RD	4 CHORD CANTILEVER TRUSS
	S670409	WAUKESHA	IH 94 W	1/8 M E OF CALHOUN RD	4 CHORD FULL SPAN
	S670419	WAUKESHA	IH 94 E	0.25 MILES E OF CTH F	4 CHORD FULL SPAN
	S670912	WAUKESHA	CTH Y N	JUST S OF IH 43 N ENTRANCE RAMP	2 CHORD FULL SPAN
	S670916	WAUKESHA	IH 43 S	ON EXIT RAMP TO CTH Y	2 CHORD FULL SPAN
		WAUKESHA	IH 43 N	ON EXIT RAMP TO CTH Y	2 CHORD FULL SPAN

SIGNAL REPAIR LOCATIONS

<u>ID</u>	<u>COUNTY</u>	<u>HIGHWAY</u>	LOCATION	<u>STRUCTURE TYPE</u>
S301168	KENOSHA	CTH S W	JUST W OF E FRONTAGE RD	CANTILEVER MAST ARM
S301185	KENOSHA	STH 165 E	JUST E OF STH 31	CANTILEVER MAST ARM
S301187	KENOSHA	STH 165 W	JUST W OF STH 31	CANTILEVER MAST ARM
S301188	KENOSHA	68TH AVENUE S	JUST S OF STH 158	CANTILEVER MAST ARM
S301192	KENOSHA	STH 142 W	JUST W OF IH 41 N ENTRANCE RAMP	CANTILEVER MAST ARM
S301193	KENOSHA	IH 41 N ENTRANCE RAMP	JUST N OF STH 142	CANTILEVER MAST ARM
S301194	KENOSHA	STH 142 E	JUST E OF IH 41 N ENTRANCE RAMP	CANTILEVER MAST ARM
S400282	MILWAUKEE	IH 41 N	BURLEIGH ST ENTRANCE RAMP	CANTILEVER MAST ARM
S400761	MILWAUKEE	IH 41 N	ON RAMP FROM COLLEGE AVE	CANTILEVER MAST ARM
S401159	MILWAUKEE	STH 241 N	JUST N OF CTH ZZ (COLLEGE AVE)	CANTILEVER MAST ARM
S401343	MILWAUKEE	DANA CT W	JUST W OF STH 181	CANTILEVER MAST ARM
S401348	MILWAUKEE	USH 18 W	JUST W OF STH 181	CANTILEVER MAST ARM
S401350	MILWAUKEE	STH 100 N	JUST E OF EXIT RAMP FROM IH 94 E	CANTILEVER MAST ARM
S401362	MILWAUKEE	N 92 S⊤ N	JUST N OF USH 18	CANTILEVER MAST ARM
S401379	MILWAUKEE	STH 241 S	JUST S OF STH 100	CANTILEVER MAST ARM
S401455	MILWAUKEE	STH 100 S	JUST S OF LAPHAM ST	CANTILEVER MAST ARM
S401458	MILWAUKEE	STH 100 N	JUST N OF THEODORE TRECKER WAY	CANTILEVER MAST ARM
S401476	MILWAUKEE	LINCOLN AVE W	JUST W OF IH 894	CANTILEVER MAST ARM
S401482	MILWAUKEE	DREXEL AVE W	JUST W OF STH 241	CANTILEVER MAST ARM
S401538	MILWAUKEE	STH 181 S	JUST N OF CTH E WB RAMPS	CANTILEVER MAST ARM
S451102	OZAUKEE	STH 33 W	JUST W OF IH 43 N RAMPS	CANTILEVER MAST ARM
S511168	RACINE	STH 31 SB	STH 31 SB JUST SOUTH OF STH 38	CANTILEVER MAST ARM
S511188	RACINE	STH 31 S	AT INTERSECTION WITH CTH MM	CANTILEVER MAST ARM
S671263	WAUKESHA	USH 18 W	JUST W OF MOORLAND RD	CANTILEVER MAST ARM
S671371	WAUKESHA	STH 318 N	JUST N OF USH 18	CANTILEVER MAST ARM
S671385	WAUKESHA	POPLAR CREEK PKWY N	JUST N OF USH 18	CANTILEVER MAST ARM
S671386	WAUKESHA	USH 18 E	JUST E OF POPLAR CREEK PKWY	CANTILEVER MAST ARM

LIGHTING REPAIR LOCATIONS

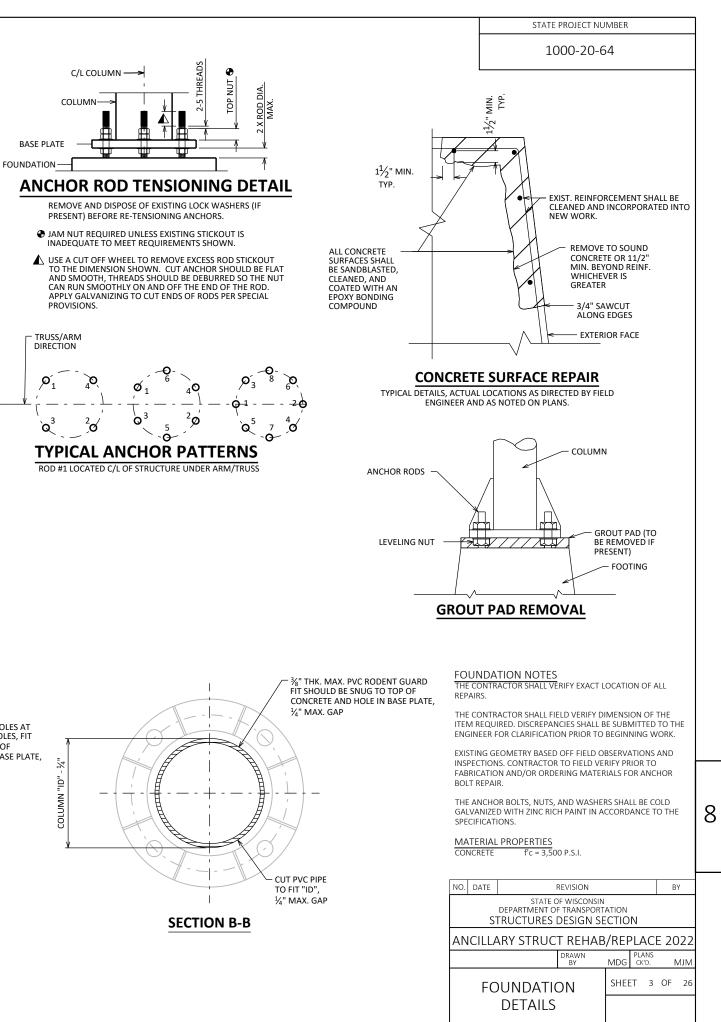
<u>ID</u>	<u>COUNTY</u>	<u>HIGHWAY</u>	LOCATION	STRUCTURE TYPE
L400031	MILWAUKEE	HOLT AVE EXIT RAMP	SOUTH SIDE OF HOLT AVE PARK AND RIDE	HML
L400062	MILWAUKEE	IH 43 N	EXIT RAMP TO MINERAL ST	HML
L400063	MILWAUKEE	IH 43 S	IN MEDIAN OF IH 43 AT NATIONAL AVE	HML

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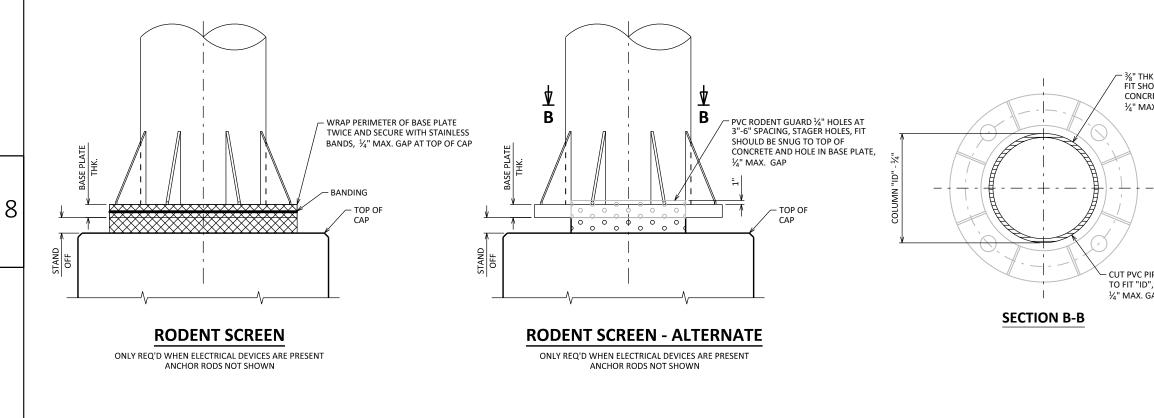
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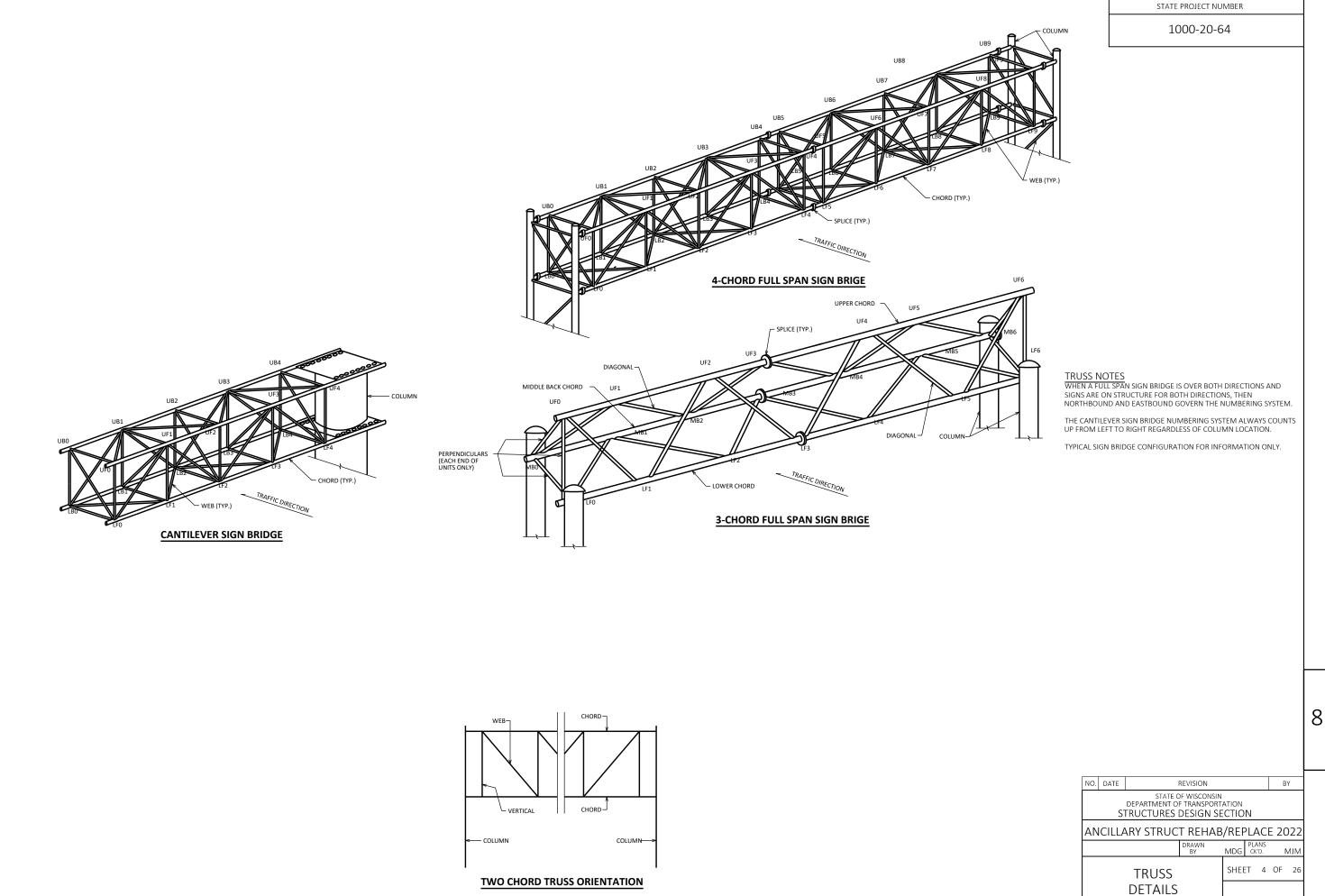
						8
N	D. DATE		REVISION		BY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION						
ANCILLARY STRUCT REHAB/REPLACE 2022						
			DRAWN BY	MDG PLANS CK'D.	MJM	
2022 SE REGION			SHEET 2	OF 26		
REPAIRS-2			2			
						1

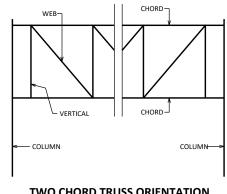
STRUCTURE	CONCRETE SURFACE REPAIR	REPLACING GUARDRAIL POSTS AND BLOCKS	REPLACING GUARDRAIL AND HARDWARE	RODENT SCREEN	REMOVE GROUT PAD	REPAIR NOTES
BID ITEM	509.1500	614.0950	614.0951	SPV.0060.01	SPV.0060.02	
UNIT	SF	EA	LF	EA	EA	
L400031	3			1		
S300009	1					
S400001	20					WEST FOUNDATION. SIGN BRIDGE IS MOUNTED TO BRIDGE. DEBRIS CONTAINMENT REQUIRED.
\$400056					2	
S400282		1				
S400328				1		
S400393				2		
S400401					4	
S400458				2		
S400514				1		
S400516				1		
S400573				1		POST TO LUMINAIRE
5451102				1		
S510009					2	
S510011	1				2	NORTH FOUNDATION
S511188				1		
S660200					1	
S670031	4					
S670262	1					
S670419			15			
S671385				1		
S671386				1		
TOTAL	30	1	15	13	11	



* THE INFORMATION PROVIDED IN THIS TABLE IS FOR INFORMATIONAL PURPOSES ONLY AND NOT TO BE COUNTED AS ADDITIONAL QUANTITIES.

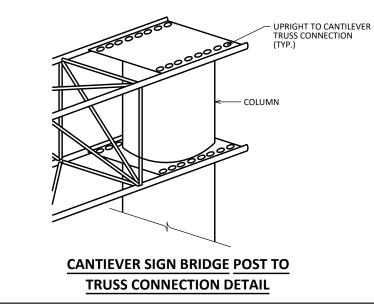






STRUCTURE	TENSION ANCHOR ROD	CATWALK HARDWARE	SNUG TIGHT BOLT	TENSION STRUCTURAL BOLT	REPLACE U- BOLT	REMOVE CATWALK AND L-BRACKETS	INSTALL POLE, TRUSS, SIGNS, SIGN BRIDGE S-30-0609	CATWALK REPAIR	REPAIR NOTES
BID ITEM	SPV.0060.03	SPV.0060.04	SPV.0060.05	SPV.0060.06	SPV.0060.07	SPV.0060.08	SPV.0060.09	SPV.0090.01	
UNIT	EA	EA	EA	EA	EA	EA	EA	LF	
400031	6								ANCHOR ROD DIA. 2.0"
400062	6								ANCHOR ROD DIA. 2.25"
400063	6								ANCHOR ROD DIA. 2.25"
300009	8								ANCHOR ROD DIA. 1.25"
300023	8								ANCHOR ROD DIA. 2.0"
300024				8					LOWER SOUTH POST TO HORIZONTAL CONNECTION BOLT. 0.75" DIA. X 2" LONG
300229					1				UPPER EAST VERTICAL SOUTH SIGN. CHORD SIZE 4.5" x 0.375"
300238			2						WEST POST UPPER AND LOWER CONNECTION
300609							1		
301168	6								ANCHOR ROD DIA. 1.75"
301185	6								ANCHOR ROD DIA. 1.75"
301187	6								ANCHOR ROD DIA. 1.75"
301188	6								ANCHOR ROD DIA. 1.75"
301192	6								ANCHOR ROD DIA. 1.75"
301193	6								ANCHOR ROD DIA. 1.5"
301194	6								ANCHOR ROD DIA. 1.75"
400006					1				LOWER WEST L BRACKET TO WEST SIGN. CHORD SIZE 4" x 0.226"
									SPLICE BOLTS. 0.75" DIA x 4.25" LONG. 4 CHORD FULL SPAN, U BOLT EAST SIGN
400019			8	8	3				2ND VERTICAL FROM EAST- LOWER, WEST SIGN 2ND VERTICAL FROM EAST- LOWER
									WEST SIGN WEST VERTICAL. CHORD SIZE 5.563" x 0.375"
400030	8								BASE IS ON A CONCRETE SUPPORT COLUMN. ANCHOR ROD DIA. 2.0"
400031	8								BASE IS ON A CONCRETE SUPPORT COLUMN. ANCHOR ROD DIA. 2.0"
400046	8								BASE IS ON A CONCRETE SUPPORT COLUMN. ANCHOR ROD DIA. 2.0"
400074	8								BASE IS ON A CONCRETE SUPPORT COLUMN. ANCHOR ROD DIA. 2.0"
400097			1						LOWER FRONT SOUTH POST TO CHORD SADDLE CONNECTION BOLT. 0.75" X 2"
400102	8								BASE IS ON A CONCRETE SUPPORT COLUMN. ANCHOR ROD DIA. 2.0"
400110				3					POST TO HORIZONTAL CONNECTION BOLT LOWER BACK. BOLT 3/4" DIA. X 2" LONG
400114	8								BASE IS ON A CONCRETE SUPPORT COLUMN. ANCHOR ROD DIA. 2.0"
400114	8								BASE IS ON A CONCRETE SUPPORT COLUMN. ANCHOR ROD DIA. 2.0
400113	8								BASE IS ON A CONCRETE SUPPORT COLUMN. ANCHOR ROD DIA. 2.0
400118	8								BASE IS ON A CONCRETE SUPPORT COLUMN. ANCHOR ROD DIA. 2.0"
400124	8								BASE IS ON A CONCRETE SUPPORT COLUMN. ANCHOR ROD DIA. 2.0"
400131 400193					4				TYPE I SIGN, CHORD DIA. UNKNOWN
400193	4								ANCHOR ROD DIA. 2.0"
400221	7				6				L BRACKET TO CHORD U BOLT LACK OF ENGAGEMENT. CHORD SIZE 6" x 0.432"
400242	12								ANCHOR ROD DIA. 2.25"

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LUMINAIRE ARM FIXED ARM ATTACHMENT SEE RECOMMENDED BOLT ASSEMBLY DETAIL

ASTM A325 HIGH STRENGTH BOLTS

POST TO LUMINAIRE ARM CONNECTION

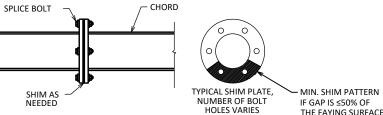
FILE NAME : PLOT DATE G-\14050.01 - WISDOT SIGN REPAIR DESIGN W01\CAD\SHEET DRAWINGS\GENERAL REPAIR DETAILS.D 12/15/2022 9:33 AM PLOT BY : MORGAN GRUBER

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STRUCTURE NOTES

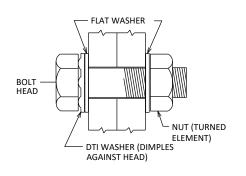
- 1. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL REPAIRS.
- 2. THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS OF THE ITEM REQUIRED. DISCREPANCIES SHALL BE SUBMITTED TO THE ENGINEER FOR CLARIFICATION PRIOR TO BEGINNING WORK.
- ALL STAINLESS STEEL BOLTS, LOCK WASHERS, AND NUTS SHALL CONFORM TO: -ANCHOR BOLTS/HEX BOLTS ASTM F593 ANY ALLOY GROUP 1, 2, OR 3 -HEX NUTS ASTM F594
 -WASHERS ASTM A240 ANY OF THE 300 SERIES WHICH HAVE A MINIMUM YIELD OF 40,000 PSI AND ELONGATION OF 15% FOR OVER 3/4" DIA. AND 12% FOR 3/4" DIA. AND SMALLER.
- 4. REPLACE MISSING BOLTS ON TOWER CAPS WITH A STAINLESS STEEL BOLT.



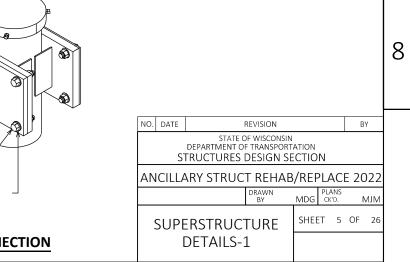
IF GAP IS ≤50% OF THE FAYING SURFACE

SPLICE CONNECTION BOLT DETAIL

IF GAP IS PRESENT PRIOR TO TENSIONING CONNECTION, SHIM USING 1/16TH GALVANIZED PLATES CUT TO MATCH OUTER DIAMETER OF SPLICE PLATES. IF PARTIAL SHIMS ARE USED, A MINIMUM OF 2 BOLTS MUST PASS THROUGH THE SHIM. NO "U" SHAPED SHIMS ALLOWED.



RECOMMENDED **STRUCTURAL BOLT ASSEMBLY DETAIL**



STRUCTURE	TENSION ANCHOR ROD	CATWALK HARDWARE	SNUG TIGHT BOLT	TENSION STRUCTURAL BOLT	REPLACE U- BOLT	REMOVE CATWALK AND L-BRACKETS	INSTALL POLE, TRUSS, SIGNS, SIGN BRIDGE S-30-0609	CATWALK REPAIR	REPAIR NOTES
BID ITEM	SPV.0060.03	SPV.0060.04	SPV.0060.05	SPV.0060.06	SPV.0060.07	SPV.0060.08	SPV.0060.09	SPV.0090.01	
UNIT	EA	EA	EA	EA	EA	EA	EA	LF	
S400317	12								ANCHOR ROD DIA. 2.25"
S400319	12							1	ANCHOR ROD DIA. 2.25", WEST CATWALK HANDRAIL UPPER EAST MITER REPAIR
S400328	12								BOTH COLUMNS, ANCHOR ROD DIA. 2.25"
S400339	8								ANCHOR ROD DIA. 2.0"
S400393	4								SOUTHEAST POST, ANCHOR ROD DIA. 1.5"
S400401				6					SPLICE BOLTS. 0.75" DIA. X 3.5" LONG
S400438	8								ANCHOR ROD DIA. 2.0"
S400454 S400458	0	1							ANCHOR ROD DIA. 1.5" CATWALK CONNECTION CLIP SOUTHEAST CORNER
S400458	8	1							BASE IS ON A CONCRETE SUPPORT COLUMN. ANCHOR ROD DIA. 1.75"
S400505	0		8	18					WEST CONNECTION SPLICE BOLTS. 3/4" DIA. X 3.5" LONG.
S400505 S400514	8		0	10					SIGN MOUNTED TO RETAINING WALL. ANCHOR ROD DIA. 2.0"
	0								POST TO HORIZONTAL CONNECTION BOLTS .75" DIA. X 2" LONG.
S400516				8	1				U BOLT CENTER VERTICAL SIGN SUPPORT. CHORD SIZE 4.5" x 0.237"
\$400533	20								ANCHOR ROD DIA. 2.5"
S400535	20								ANCHOR ROD DIA. 2.5"
S400573	16								BASE IS ON A CONCRETE SUPPORT COLUMN. ANCHOR ROD DIA. 1.5"
S400579	16								BASE IS ON A CONCRETE SUPPORT COLUMN. ANCHOR ROD DIA. 1.5"
S400580	16								BASE IS ON A CONCRETE SUPPORT COLUMN. ANCHOR ROD DIA. 1.5"
S400583	6								BASE IS ON A CONCRETE SUPPORT COLUMN. ANCHOR ROD DIA. 1.5"
S400817						1			
	_			_					ANCHOR ROD DIA. 2.0", POST TO HORIZONTAL CONNECTION BOLTS UPPER BACK.
S400818	8			8					CHORD SIZE 4.5" x 0.237"
S400838	16								BASE IS ON A CONCRETE SUPPORT COLUMN. ANCHOR ROD DIA. 1.75"
	1.5								BASE IS ON A CONCRETE SUPPORT COLUMN. ANCHOR ROD DIA. 1.25", SPLICE
S400841	16		8	6					BOLTS 3/4" DIA. X 3.5" LONG
S400843	16								ANCHOR ROD DIA. 1.25"
S400865	8								BASE IS ON A CONCRETE SUPPORT COLUMN. ANCHOR ROD DIA. 2.0"
S400868	8								BASE IS ON A CONCRETE SUPPORT COLUMN. ANCHOR ROD DIA. 2.0"
S400949	16								ANCHOR ROD DIA. 1.5"
S401159				4					POST TO HORIZONTAL CONNECTION BOLT EAST LUMINAIRE ARM. 0.75" DIA X 1.75
5101155									LONG
S401343	6								ANCHOR ROD DIA. 1.5"
S401350	6			8					ANCHOR ROD DIA. 1.75", POST TO HORIZONTAL CONNECTION BOLTS 1.5" DIA x 7 LONG
S401362	6								ANCHOR ROD DIA. 1.5"
S401379	6								ANCHOR ROD DIA. 1.75"
S401455	6								ANCHOR ROD DIA. 1.75"
S401458	6								ANCHOR ROD DIA. 1.75"
S401476			ļ	8		ļ			POST TO HORIZONTAL CONNECTION BOLTS. 1.5" DIA X 7" LONG
S450002			ļ		2	ļ			1 ON BOTH EAST AND WEST SIGN. CHORD SIZE 5" x 0.375
S450206	12								ANCHOR ROD DIA. 1.5"
S451102			1						CHORD SPLICE CONNECTION
S510009	8								ANCHOR ROD DIA. 1.5"
S510010	8								ANCHOR ROD DIA. 1.5"
S510011	8								ANCHOR ROD DIA. 1.5"
S510233	12		4						ANCHOR ROD DIA. 1.0", CHORD TO POST CONNECTION BOLTS
S511168	6								ANCHOR ROD DIA. 1.5"
S660006	16		<u> </u>	<u> </u>	1			<u> </u>	ANCHOR ROD DIA. 1.5"
S660200	10				1				
S660213	12		4	6		+			ANCHOR ROD DIA. 1.5", SPLICE BOLT 1.25" DIA. X 5.0" LONG
S660217			5	12					REPLACE WEST POST TO CHORD SADDLE CONNECTION BOLT 1.0" DIA. X 8.5" LON
S660218			4	12		+			SPLICE BOLTS 1.25" DIA. X 5.0" LONG SPLICE BOLT 1.5" DIA X 5.0" LONG
	8		4	12		+			
S670031									ANCHOR ROD DIA. 1.75"
S670038	12								ANCHOR ROD DIA. 2.0"

8

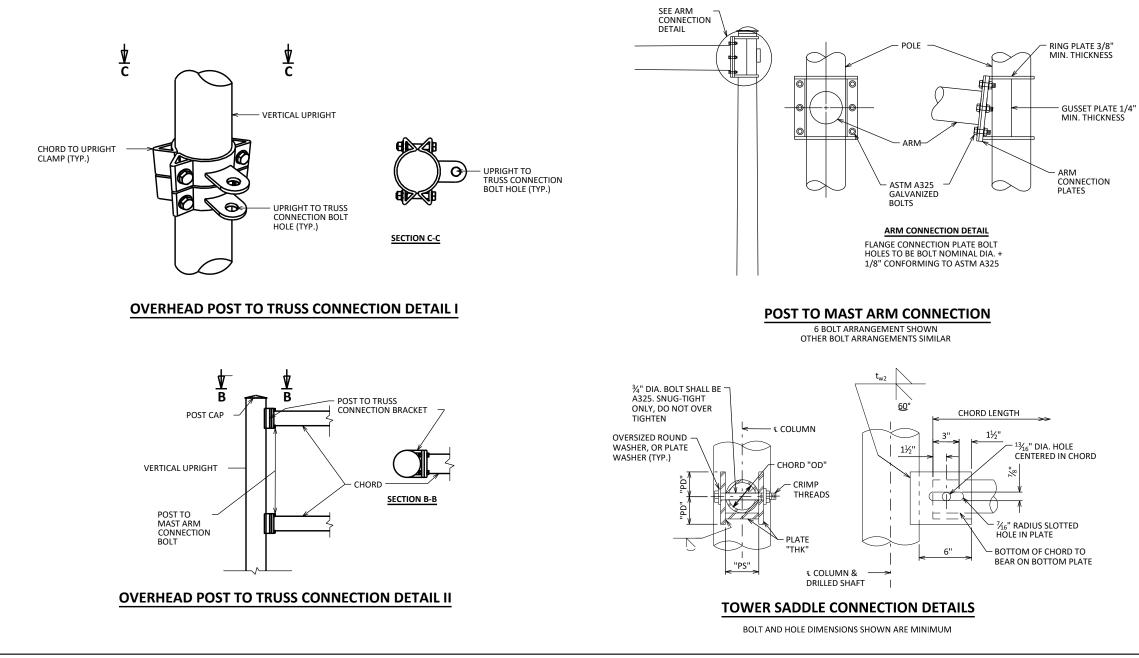
STATE PROJECT NUMBER

1000-20-64



TABLE OF E	estimated q	UANTITIES FO	OR STRUCTUF	RES (CONT.)*					
STRUCTURE	TENSION ANCHOR ROD	CATWALK HARDWARE	SNUG TIGHT BOLT	TENSION STRUCTURAL BOLT	REPLACE U- BOLT	REMOVE CATWALK AND L-BRACKETS	INSTALL POLE, TRUSS, SIGNS, SIGN BRIDGE S-30-0609	CATWALK REPAIR	REPAIR NOTES
BID ITEM	SPV.0060.03	SPV.0060.04	SPV.0060.05	SPV.0060.06	SPV.0060.07	SPV.0060.08	SPV.0060.09	SPV.0090.01	
UNIT	EA	EA	EA	EA	EA	EA	EA	LF	
S670040	8								ANCHOR ROD DIA. 2.0"
S670254			4	12					SPLICE BOLTS
S670266					1				NORTH SIGN
S670310	8			16					ANCHOR ROD DIA. 2.0", POST TO HORIZONTAL CONNECTION BOLTS UPPER AND LOWER BACK. 3/4" DIA. X 2" LONG
S670314	6								ANCHOR ROD DIA. 2.0"
S670409	16								ANCHOR ROD DIA. 2.25"
S670912			4	12					SPLICE BOLTS 1.25" DIA X 5" LONG
S670916			4	12					SPLICE BOLTS 1.25" DIA X 5" LONG
S670917			4	12					SPLICE BOLTS 1.25" DIA X 5" LONG
S671385	6								ANCHOR ROD DIA. 1.75"
S671386	6								ANCHOR ROD DIA. 1.5"
TOTAL	628	1	61	179	20	1	1	5	

* THE INFORMATION PROVIDED IN THIS TABLE IS FOR INFORMATIONAL PURPOSES ONLY AND NOT TO BE COUNTED AS ADDITIONAL QUANTITIES.

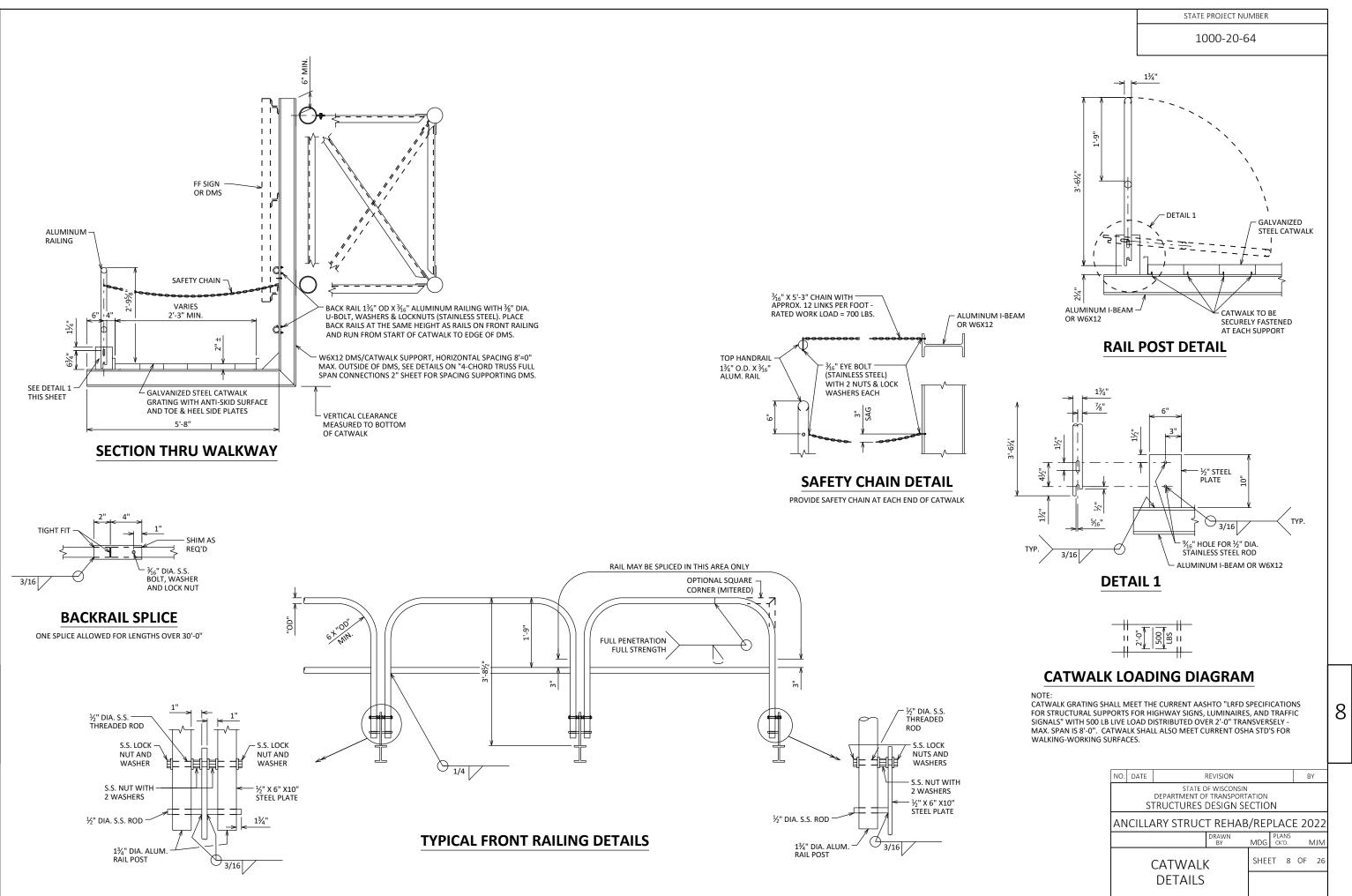


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STATE PROJECT NUMBER

1000-20-64

NO.	DATE		REVISION BY							
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION										
ANCILLARY STRUCT REHAB/REPLACE 2022)22			
			DRAWN BY	MDG	PLANS CK'D.	1	MIN			
	SUPE	ERSTRUC	SHEE	ET 7	OF	26				
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 FILE NAME :
 G\14050.01 - WISDOT SIGN REPAIR DESIGN WO1\CAD\SHEET DRAWINGS\GENERAL REPAIR DETAIL

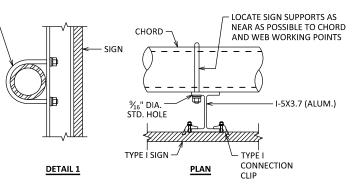
 PLOT DATE :
 12/15/2022 9:33 AM
 PLOT BY :
 MORGAN GRUBER

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TABLE OF ESTIMATED Q	QUANTITIES FOR	SIGNS*
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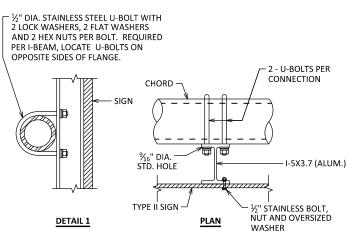
STRUCTURE	MOVING SIGNS TYPE I	ADJUST SIGN	SIGN PANEL CONNECTOR	VERTICAL SIGN SUPPORT	REPAIR NOTES
BID ITEM	638.2101	SPV.0060.10	SPV.0060.11	SPV.0060.12	
UNIT	EA	EA	EA	EA	
5300217		1			2ND SIGN FROM WEST LOOSE
\$300231				4	VERTICAL SIGN SUPPORTS HAVE SLOTTED HOLES
\$300248				6	VERTICAL SIGN SUPPORTS HAVE SLOTTED HOLES
5300612		1			VERTICAL SIGN SUPPORT LOOSE
5400105			5		SOUTH SIGN
\$400185	1		4		RAISE TYPE I SIGN TO MEET VERTICAL CLEARANCE, WEST SIGN SUPPORT
5400221				3	VERTICAL SIGN SUPPORTS TOO SHORT. EXISTING SIGN 7.5' HIGH
5400225				2	VERTICAL SIGN SUPPORTS 4' FROM SIGN EDGE
6400267				2	VERTICAL SIGN SUPPORTS 3.5' FROM SIGN EDGE
6400317			2		WEST VERTICAL SIGN SUPPORT WEST SIGN AND EAST VERTICAL SIGN
\$400319				2	VERTICAL SIGN SUPPORTS 4.5' AND 3.5' FROM SIGN EDGE
5400328				1	VERTICAL SIGN SUPPORT EAST SIGN SPACING 10'. EXISTING SIGN 6.0'
400392				1	VERTICAL SIGN SUPPORT EXCESSIVE SPACING. EXISTING SIGN 8.0' HIGH
6400512				7	U-BOLTS ON SAME SIDE OF VERTICAL SUPPORTS. WEST AND EAST SIGN
					SUPPORTS 4.0' FROM SIGN EDGE
5400536			1		SOUTH VERTICAL SUPPORT NORTH SIGN
5400710				1	VERTICAL SIGN SUPPORTS ON NORTH SIGN HAVE SLOTTED HOLES
6400746				4	VERTICAL SIGN SUPPORTS TOO SHORT. EXISTING SIGN 8.5' HIGH
400753				2	REMOVE AND REPLACE EXISTING SIGN SUPPORT. EXISTING SIGNS 5.0' HIGH
5400813			1		U-BOLTS ON SAME SIDE OF VERTICAL SUPPORTS
400820			11		EAST AND MIDDLE VERTICAL SUPPORTS ON BOTH EAST AND WEST SIGN
5400990				2	REMOVE AND REPLACE EXISTING SIGN SUPPORT. EXISTING SIGNS 5.5' HIGH
S401159		1			POST MOUNTED TYPE II SIGN LOOSE
\$401348		1			POST MOUNTED TYPE II SIGN CONNECTION BROKEN
5401455		1			CHORD MOUNTED TYPE II SIGN TILTED
5401482		1			POST MOUNTED TYPE II SIGN UPPER LOOSE
5401538		1			CHORD MOUNTED TYPE 2 SIGN TILTED DOWN
6450206				4	VERTICAL SIGN SUPPORTS HAVE SLOTTED HOLES
450200 450212		1			POST MOUNTED SIGN LOWER CONNECTION BROKEN
510009		1			WEST SIGN LOOSE CONNECTION ASSEMBLY
510005 510236		1			LOOSE OVERHEAD SIGN CONNECTION STRAP
640204		1			NORTH SIGN CONNECTION CLAMP BROKEN
5640204 5640209		Т		3	VERTICAL SIGN SUPPORTS HAVE SLOTTED HOLES
5660006			2	5	ONE EACH SIGN
\$660200			2	6	REMOVE AND REPLACE EXISTING SIGN SUPPORT. EXISTING SIGNS 7.5'
\$660211		1			AND 8.0' HIGH BY 17' WIDE POST MOUNTED TYPE II SIGN
\$670001				1	VERTICAL SIGN SUPPORT EAST SIGN SPACING 10'. EXISTING SIGN 10.5' HIGH
\$670200				2	VERTICAL SIGN SUPPORTS 4.0' FROM SIGN EDGE
\$670248				2	REMOVE AND REPLACE EXISTING SIGN SUPPORT ON TWO TYPE II SIGNS EXISTING SIGNS 4.0' HIGH
670262		1			REPLACE UPPER CONNECTION BOLT MIDDLE TURN ARROW TYPE II SIGN
\$670275		1			POST MOUNTED TYPE II SIGN UPPER STRAP MISSING
670308		±	28		
670308			1		
670408			1	1	CONNECT MIDDLE VERTICAL SUPPORT TO SIGN.
670408 671263		1			
		1			CHORD MOUNTED TYPE II SIGN
671371		1		1	CHORD MOUNTED TYPE II SIGN EAST CONNECTION LOOSE

- ½" DIA. STAINLESS STEEL U-BOLT WITH 2 LOCK WASHERS, 2 FLAT WASHERS AND 2 HEX NUTS PER BOLT. 2 BOLTS REQUIRED PER I-BEAM, LOCATE TOP AND BOTTOM U-BOLTS ON OPPOSITE SIDES OF FLANGE.



2-CHORD TRUSS SIGN CONNECTION

TYPE I SIGN PANEL SHOWN. SEE SIGN PLATE MANUAL A4-7A AND A4-7BFOR DETAILS. PANEL, HARDWARE TO BE SUPPLIED BY THE CONTRACTOR.

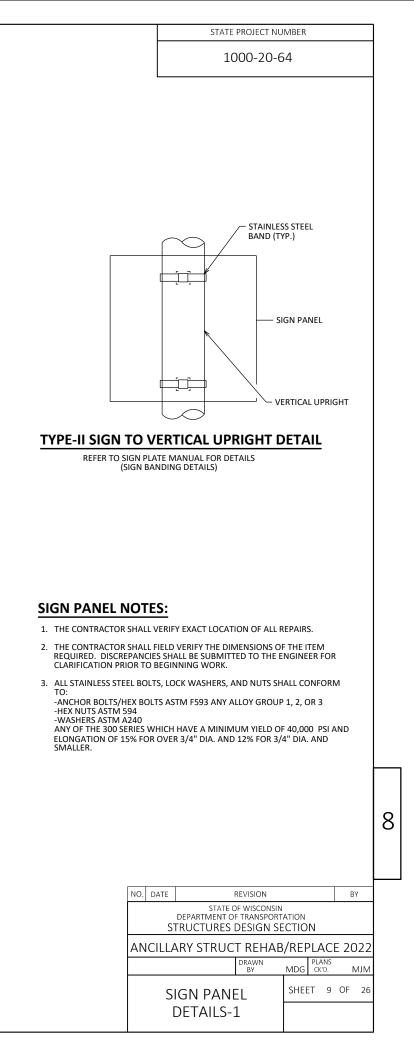


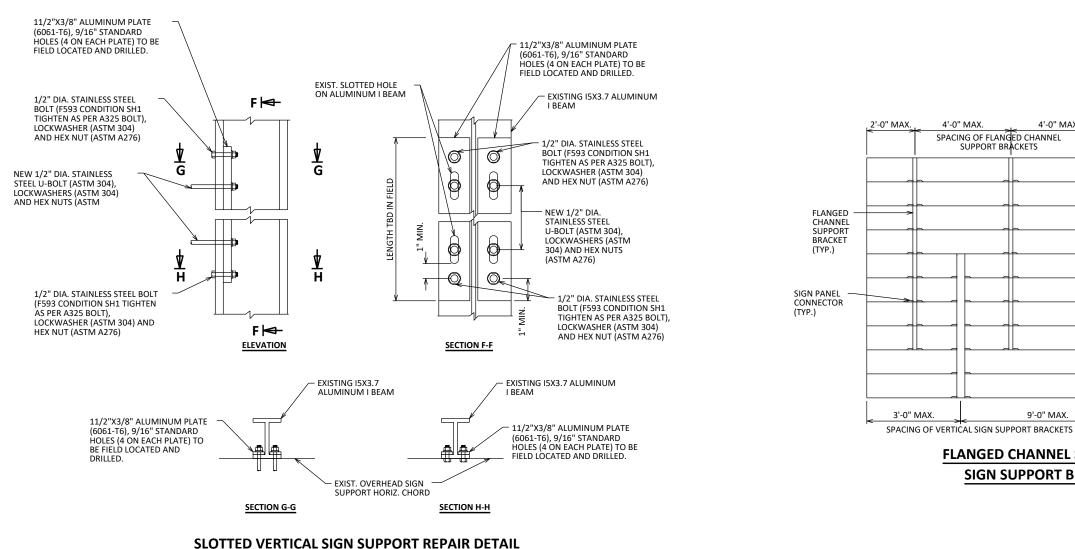
MONOTUBE SIGN CONNECTION

TYPE II SIGN PANEL SHOWN. SEE SIGN PLATE MANUAL A4-7A AND A4-7B FOR DETAILS. PANEL, HARDWARE TO BE SUPPLIED BY THE CONTRACTOR.

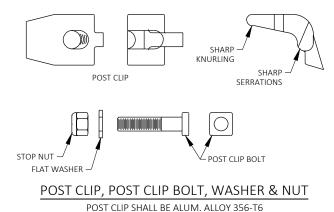
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EACH REPAIR INCLUDES ALL BOLT CONNECTIONS PER I-BEAM



POST CLIP SHALL BE ALUM. ALLOY 356-T6 POST CLIP BOLT SHALL BE STAINLESS STEEL FLAT WASHER SHALL BE 3/2" X .091, STAINLESS STEEL STOP NUST SHALL BE STAINLESS STEEL NOTES:

- CONTRACTOR MAY SELECT ANY BRAND OF EXTRUSION THAT CONFORMS TO THE ILLUSTRATIONS OR MEETS WITH THE APPROVAL OF THE ENGINEER, BUT ALL EXTRUSIONS USED ON THE CONTRACT SHALL BE OF THE SAME BRAND.
- 2. PANEL STITCH BOLTS SHALL BE USED TO ASSEMBLE ADJACENT PANELS. MAXIMUM STITCH BOLT SPACING SHALL BE 24" C-C, AND A MINIMUM OF 4 BOLTS SHALL BE USED TO CONNECT ANY TWO EXTRUSIONS.
- POST CLIPS SHALL BE USED TO ATTACH THE SIGN PANEL TO THE SIGN SUPPORT.
- 4. EDGE WRAPPING OF SIGN SHEETING REQUIRED ON ALL EXTRUSIONS JOINTS SHOWN IN DETAIL A.

STATE PROJECT NUMBER

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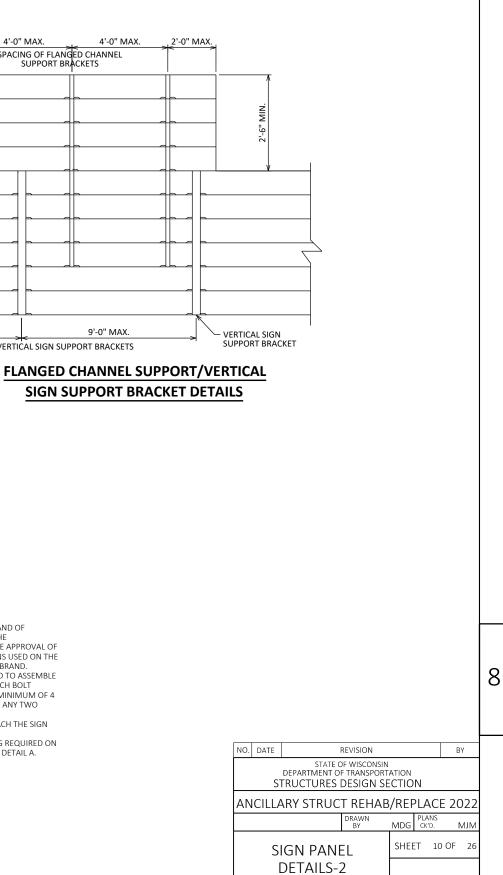
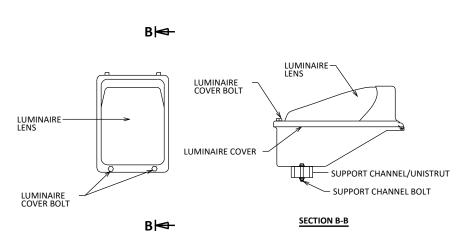


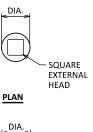
TABLE OF ESTIMATED QUANTITIES FOR ELECTRICAL*

STRUCTURE	LUMINAIRE ITEMS	CONDUIT PLUG	REPAIR NOTES
BID ITEM	SPV.0060.13	SPV.0060.14	
UNIT	EA	EA	
L400062	4		INSTALL HML LUMINAIRE BULB SAFETY CHAINS
L400063	4		INSTALL HML LUMINAIRE BULB SAFETY CHAINS
S300023		1	
S400225	2		REPLACE LUMINAIRE SUPPORT UNISTRUT, SECURE/REPLACE LUMINAIRE COVER
S400226	2		REPLACE LUMINAIRE SUPPORT UNISTRUT, SECURE/REPLACE LUMINAIRE COVER
S400319	1	1	SECURE/REPLACE EAST LUMINAIRE COVER
S400320	2		SECURE/REPLACE EAST AND WEST LUMINAIRE COVERS
S400339		1	
S400501	2		SECURE/REPLACE MIDDLE AND EST LUMINAIRE COVERS
S400505	1		SECURE/REPLACE LUMINAIRE COVER
S400512	2		SECURE/REPLACE MIDDLE AND WEST LUMINAIRE COVERS
S400516	2		SECURE/REPLACE LUMINAIRE COVER, CONNECT UNISTRUT TO L BRACKET
S400713	1		SECURE/REPLACE LUMINAIRE COVER
S400812	1		SECURE/REPLACE LUMINAIRE COVER
S400815	2		SECURE/REPLACE LUMINAIRE COVERS
S400817	2		REMOVE LUMINAIRES AS PART OF CATWALK REMOVAL
S400818	1		SECURE/REPLACE LUMINAIRE COVER
S400865		1	
S400868		1	
S670314		1	
TOTAL	29	6	



TYPICAL LUMINAIRE DETAILS

CHORD OR TOWER



- EXTERNAL SQUARE HEAD



THREAD HOLE TO ACCEPT PLUG

ELEVATION

CONDUIT PLUG DETAILS

8

QUANTITIES.

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ELECTRICAL NOTES:

- 1. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL REPAIRS.
- 2. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE OF THE ITEM REQUIRED.
- ALL STAINLESS STEEL BOLTS, LOCK WASHERS, AND NUTS SHALL CONFORM TO: -HEX BOLTS ASTM F593 ANY ALLOY GROUP 1, 2, OR 3 -HEX NUTS ASTM F594 -WASHERS ASTM A240 ANY OF THE 300 SERIES WHICH HAVE A MINIMUM YIELD OF 40,000 PSI AND ELONGATION OF 15% FOR OVER 3/4" | AND 12% FOR 3/4" | AND SMALLER.
- THE CONTRACTOR SHALL USE ANTI-SIEZE COMPOUND ON ELECTRICAL HANDHOLE COVER BOLTS, JUNCTION BOX BOLTS, LUMINAIRE COVER BOLTS, AND CONDUIT PLUGS PER SECTION 651.3.1 (5) OF THE WISDOT STANDARD SPECIFICATION.
- 5. CAP ALL EXPOSED WIRES AND CLOSE THE JUNCTION BOX.
- 6. REPLACE THE JUNCTION BOX BOLT WITH A STAINLESS STEEL BOLT.

NO. DATE REVISION	BY						
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION							
ANCILLARY STRUCT REHAB/REPLACE 2022							
DRAWN BY	MDG CK'D. MJM						
ELECTRICAL	SHEET 11 OF 26						
DETAILS							

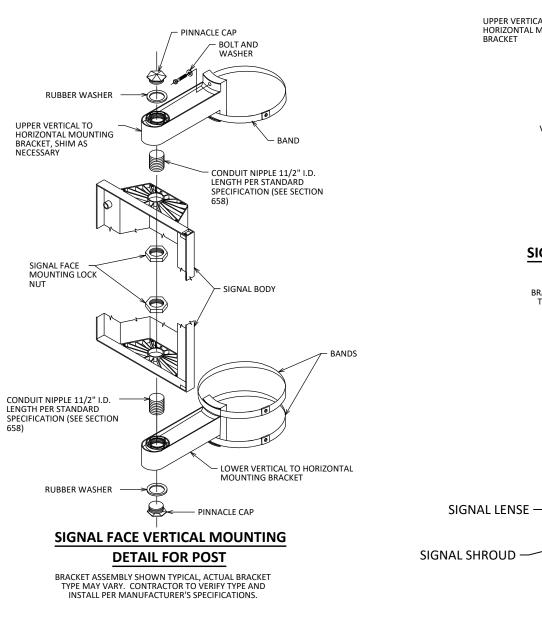
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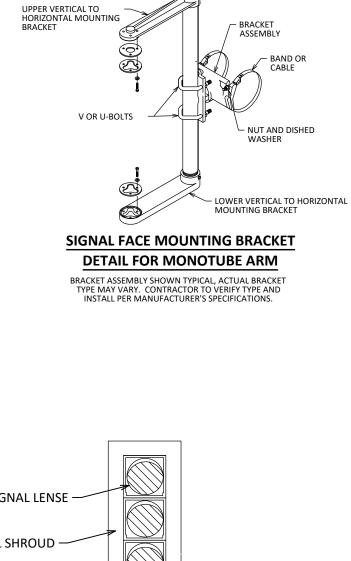
STRUCTURE	REPLACE DISHED WASHER	REPLACE SIGNAL SHROUD	SIGNAL MOUNTING HARDWARE MODIFIED	REPAIR NOTES
BID ITEM	SPV.0060.15	SPV.0060.16	SPV.0060.17	
UNIT	EA	EA	EA	
S400072			1	POST MOUNTED SIGNAL CONNECTION BRACKET
S400761			1	WEST SIGNAL CONNECTION BRACKET
S401348		1		NORTH SIGNAL
S401362			1	EAST SIGNAL CONNECTION BRACKET
S401482	1		1	NORTH SIGNAL SET SCREW
S451102	1	3		SOUTH SIGNAL DISHED WASHER
S511168		1		EAST SIGNAL
S671263			2	NORTH AND MIDDLE SIGNALS CONNECTION BRACKET
TOTAL	2	5	6	

* THE INFORMATION PROVIDED IN THIS TABLE IS FOR INFORMATIONAL PURPOSES ONLY AND NOT TO BE COUNTED AS ADDITIONAL QUANTITIES.

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658)





SIGNAL HEAD DETAILS 3 HEAD SIGNAL SHOWN, OTHERS SIMILAR

FILE NAME : PLOT DATE : G-\14050.01 - WISDOT SIGN REPAIR DESIGN WO1\CAD\SHEET DRAWINGS\GENERAL REPAIR DETAILS.DWI 12/15/2022 9:34 AM PLOT BY : MORGAN GRUBER

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STATE PROJECT NUMBER

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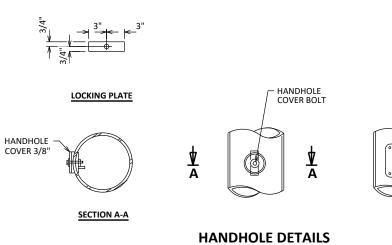
NO.	DATE		REVISION			BY	
	ST	STATE C DEPARTMENT O FRUCTURES		N			
AN	ANCILLARY STRUCT REHAB/REPLACE 2022						
			DRAWN BY	MDG	PLANS CK'D.	MJN	
		SIGNAL	SHEE	ET 12	2 OF 26		
		DETAILS					

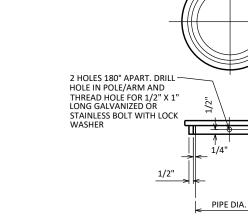
STRUCTURE	PAINTING EPOXY SYSTEM	ID PLAQUE	HANDHOLE COVER	POST/END CAP	REMOVE DEBRIS	REPAIR GALVANIZED	REPAIR NOTES
BID ITEM	517.0601	SPV.0060.18	SPV.0060.19	SPV.0060.20	SPV.0060.21	COATING SPV.0165.01	
UNIT	EA	EA	EA	EA	EA	SF SF SF	
L400031	LA		1	LA	LA	51	REPLACE 7/16" HANDHOLD BOLT
L400031			1				REPLACE 7/16 HANDHOLD BOLT
S300024			1				HANDHOLE COVER MISSING
S301185		1					
S301185		1	1				HANDHOLE COVER PRESENT, BOLT MISSING
S301187		1					
S301192		1					
S301192		1					
S301194		1					
S400001			1				SOUTHEAST POST UPPER HANDHOLE COVER PRESENT, LOOSE
S400091						30	UPPER HORIZONTAL BRACE
S400102						5	GUSSET PLATE NEAR SUPPORT
S400328					1		EAST FOUNDATION
S400392				1			NORTHEAST POST CAP MISSING. COLUMN IS 10.75" X 0.365"
S400393				1			NORTHEAST POST CAP PRESENT BUT NOT SECURE. COLUMN IS 10.75" X 0.365"
S400438				1			EAST POST CAP PRESENT BUT NOT SECURE. 5/16" X 3/4" SET SCREWS
S400458		1	1				LOWER HANDHOLE COVER MISSING
S400573		_	_			8	POST NEAR BASEPLATE, BASEPLATE, AND POST TO BASE PLATE STIFFENERS
S400817						1	
S400843		1				_	
S400990				2			NEED POLE AND END CAP. 7.85" X 7 GA (TOP OF POLE) 4.78" X GA. (END OF ARM)
S401159		1					
S401350		1					
S401379			1				UPPER HANDHOLE COVER PRESENT, BOLT MISSING
S401455			1				UPPER HANDHOLE COVER PRESENT, BOLT MISSING
S401458		1	1				UPPER HANDHOLE COVER PRESENT, BOLT MISSING
S401482		1					
S510233	1						
S670039						8	POST NEAR BASEPLATE, BASEPLATE, AND POST TO BASE PLATE STIFFENERS
S670040						8	POST NEAR BASEPLATE, BASEPLATE, AND POST TO BASE PLATE STIFFENERS
S671263		1					
S671386		1					
TOTAL	1	14	9	5	1	60	

PAINTING EPOXY SYSTEM NOTES:

ALL REFERENCES TO THE COLOR OF THE EXTERIOR SURFACES OF ALL OVERHEAD SIGN BRIDGE EQUIPMENT, ASSOCIATED MOUNTING HARDWARE TO REQUIRE A FLAT FINISH, DULL BLACK, LUSTERLESS COLOR FOR ALL NEW EQUIPMENT. NEW PAINT TO BE FLAT BLACK COLOR. ALL STEEL SHALL BE CLEANED AND PAINTED WITH A PRIMER AND TWO FINISH COATS OF THE BEST RUST RESISTANT SYNTHETIC RESIN ENAMEL IN FLAT BLACK. SUBMIT A SAMPLE OF THE COLOR FOR APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION.

* THE INFORMATION PROVIDED IN THIS TABLE IS FOR INFORMATIONAL PURPOSES ONLY AND NOT TO BE COUNTED AS ADDITIONAL QUANTITIES.





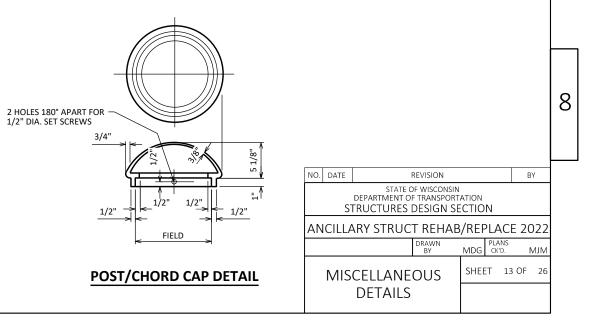
- HANDHOLE COVER BOLT

POST/END CAP DETAIL

3/4"

1/2"

1"



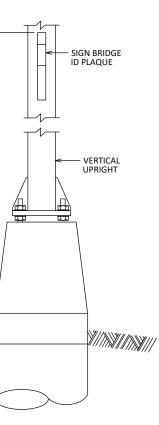
 NAME :
 G-\14050.01 - WISDOT SIGN REPAIR DESIGN W01\CAD\SHEET DRAWINGS\GENERAL REPAIR DETA

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 PLOT BY :
 MORGAN GRUBER

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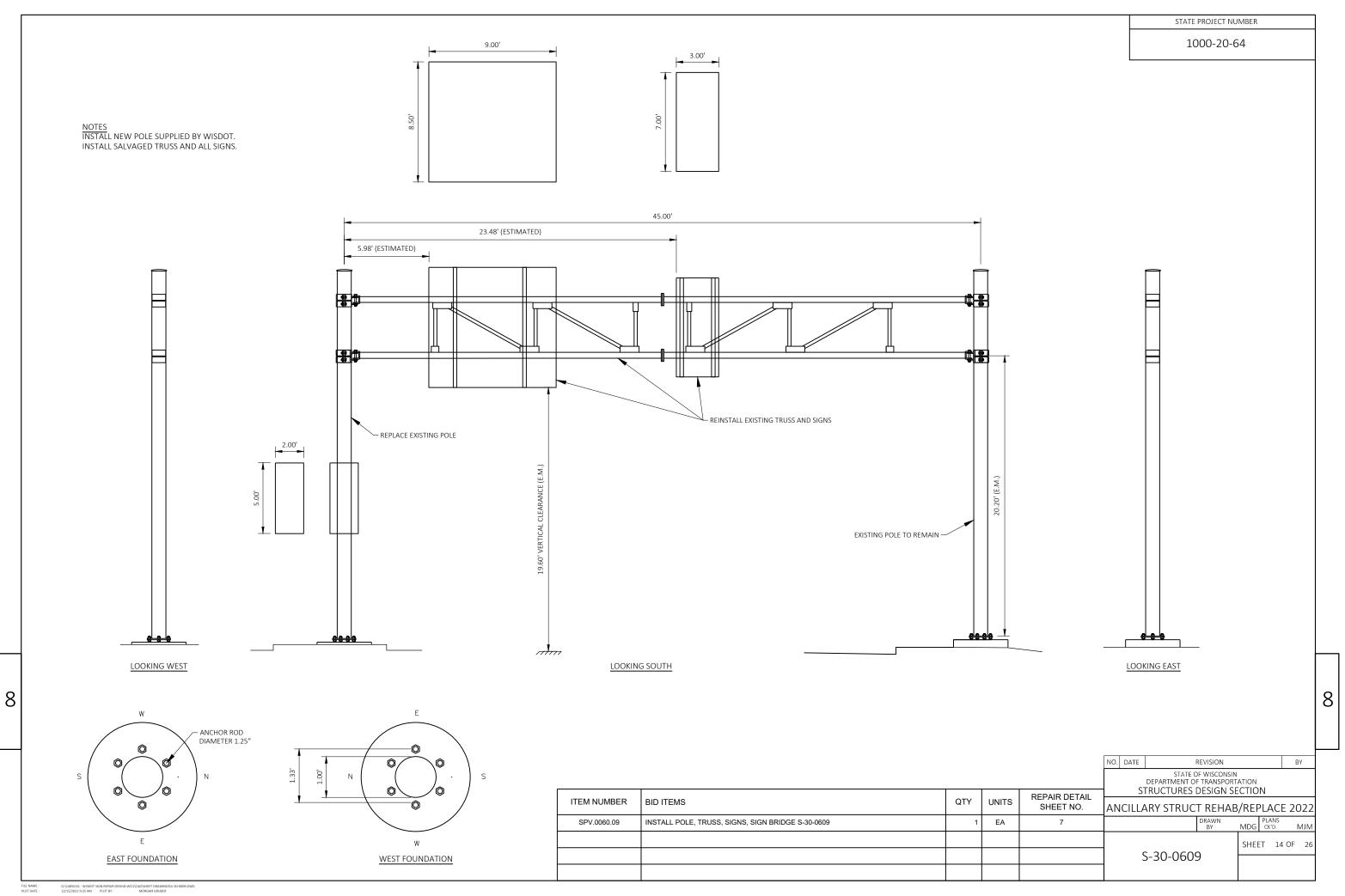
STATE PROJECT NUMBER

1000-20-64



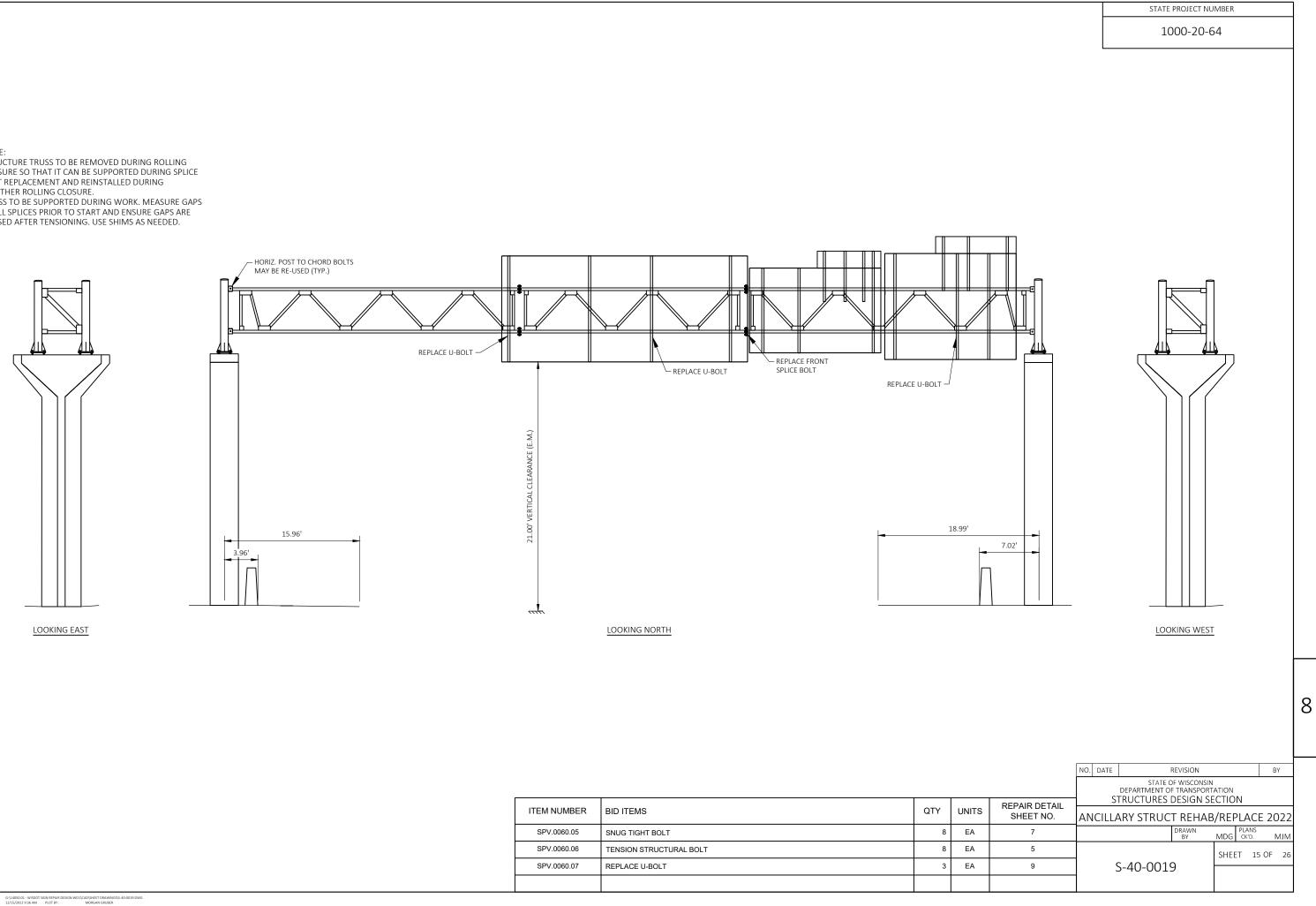
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SIGN BRIDGE ID PLAQUE



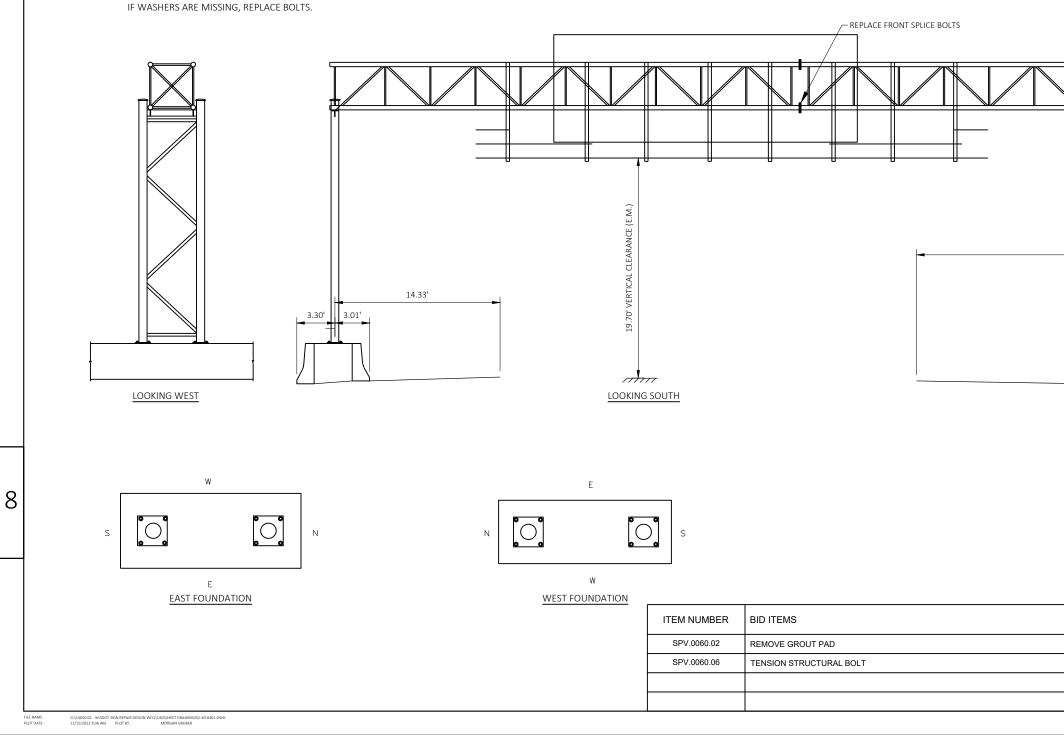
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S:\14050.01 - WISDOT S 12/15/2022 9:36 AM	S-14450.01 - WISDOT SIGN REPAIR DESIGN WO1/CADI/SHEET DRAWWIGS/S-40 0019.DWG 12/15/2022 936 AM PLOT BY: MOBGAN GRUBER

LOOKING EAST		

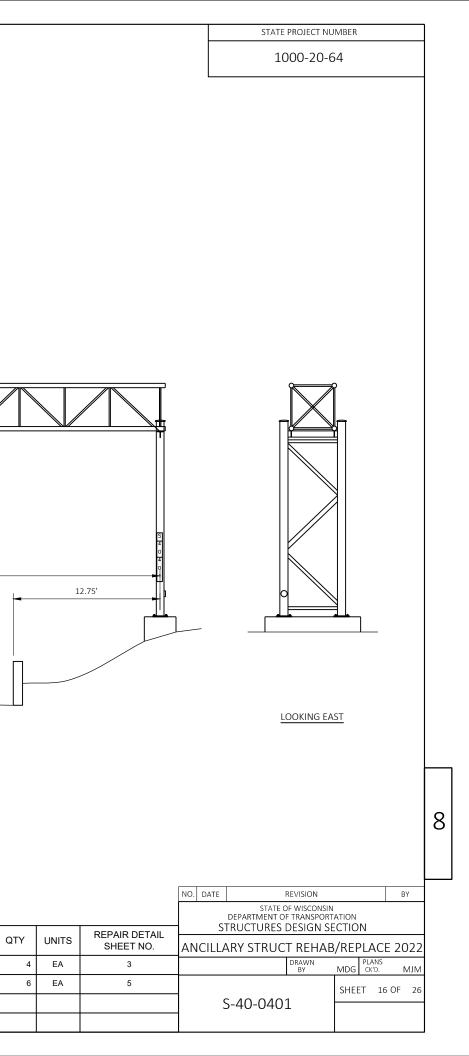


NOTE: STRUCTURE TRUSS TO BE REMOVED DURING ROLLING CLOSURE SO THAT IT CAN BE SUPPORTED DURING SPLICE BOLT REPLACEMENT AND REINSTALLED DURING ANOTHER ROLLING CLOSURE. TRUSS TO BE SUPPORTED DURING WORK. MEASURE GAPS IN ALL SPLICES PRIOR TO START AND ENSURE GAPS ARE CLOSED AFTER TENSIONING. USE SHIMS AS NEEDED.

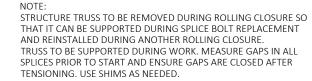
ITEM NUMBER	BID ITEMS	QTY	U
SPV.0060.05	SNUG TIGHT BOLT	8	
SPV.0060.06	TENSION STRUCTURAL BOLT	8	
SPV.0060.07	REPLACE U-BOLT	3	

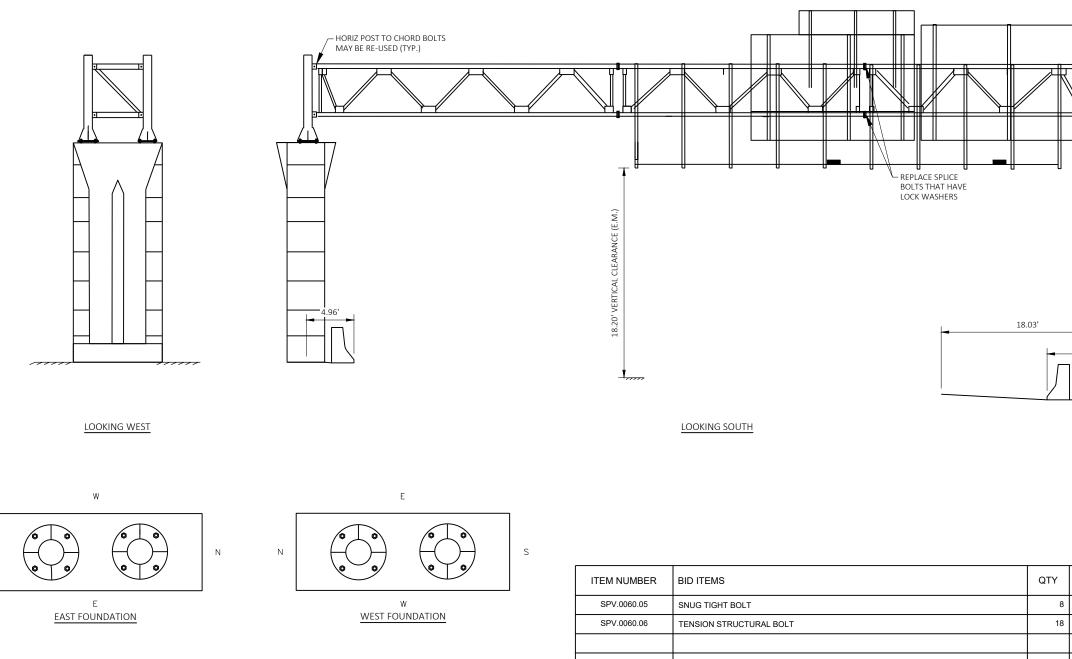


NOTE: SPLICE BOLT REPLACEMENT TO BE DONE UNDER FULL FREEWAY CLOSURE. TRUSS TO BE SUPPORTED DURING WORK. MEASURE GAPS IN ALL SPLICES PRIOR TO START AND ENSURE GAPS ARE CLOSED AFTER TENSIONING. USE SHIMS AS NEEDED. CHECK ALL SPLICE CONNECTIONS FOR WASHERS.



30.25'



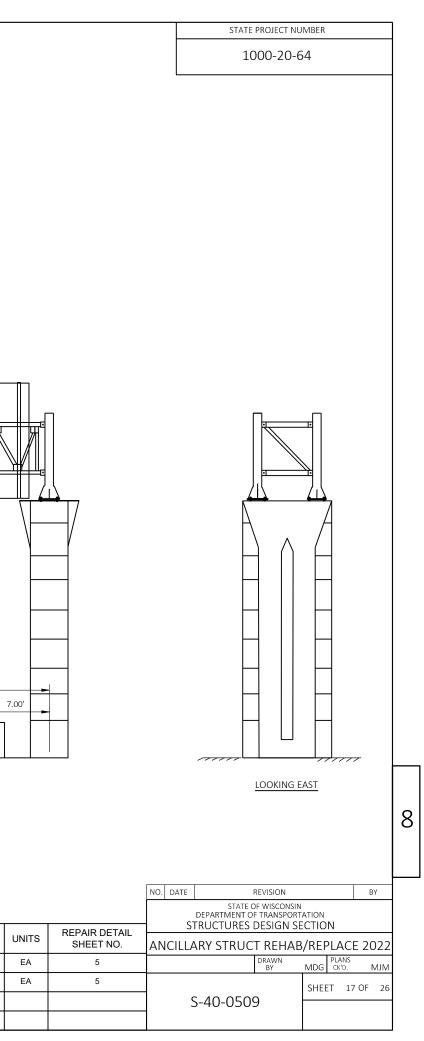


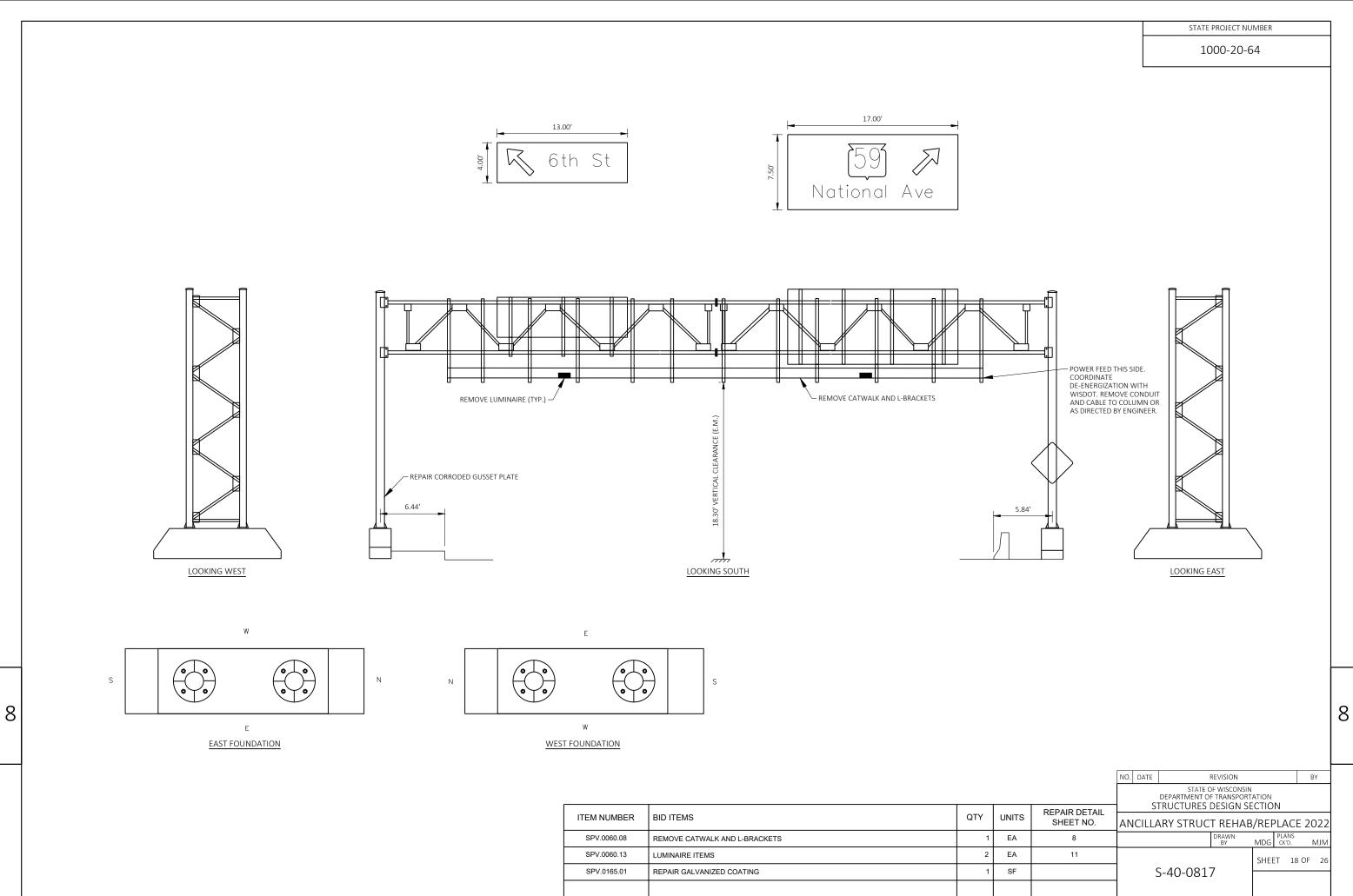
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 PLOT DATE :
 12/15/2022 9:37 AM
 PLOT BY :
 MORGAN GRUBER

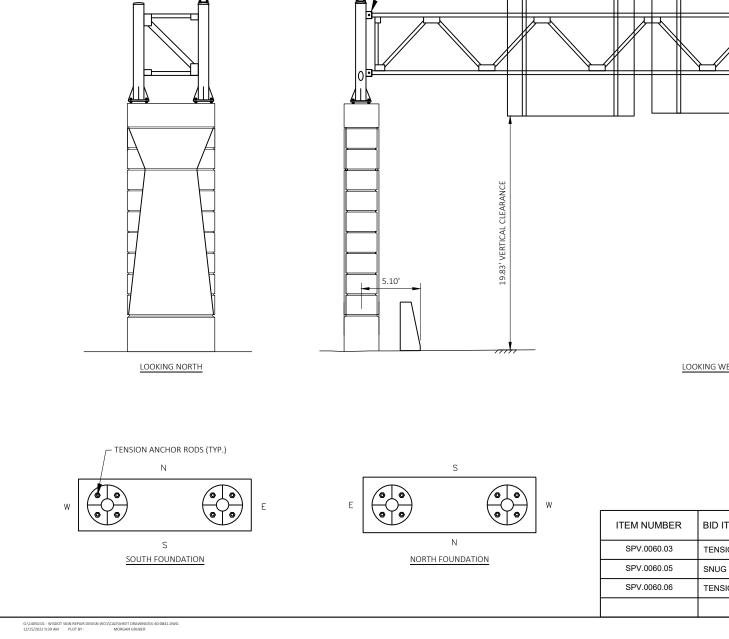
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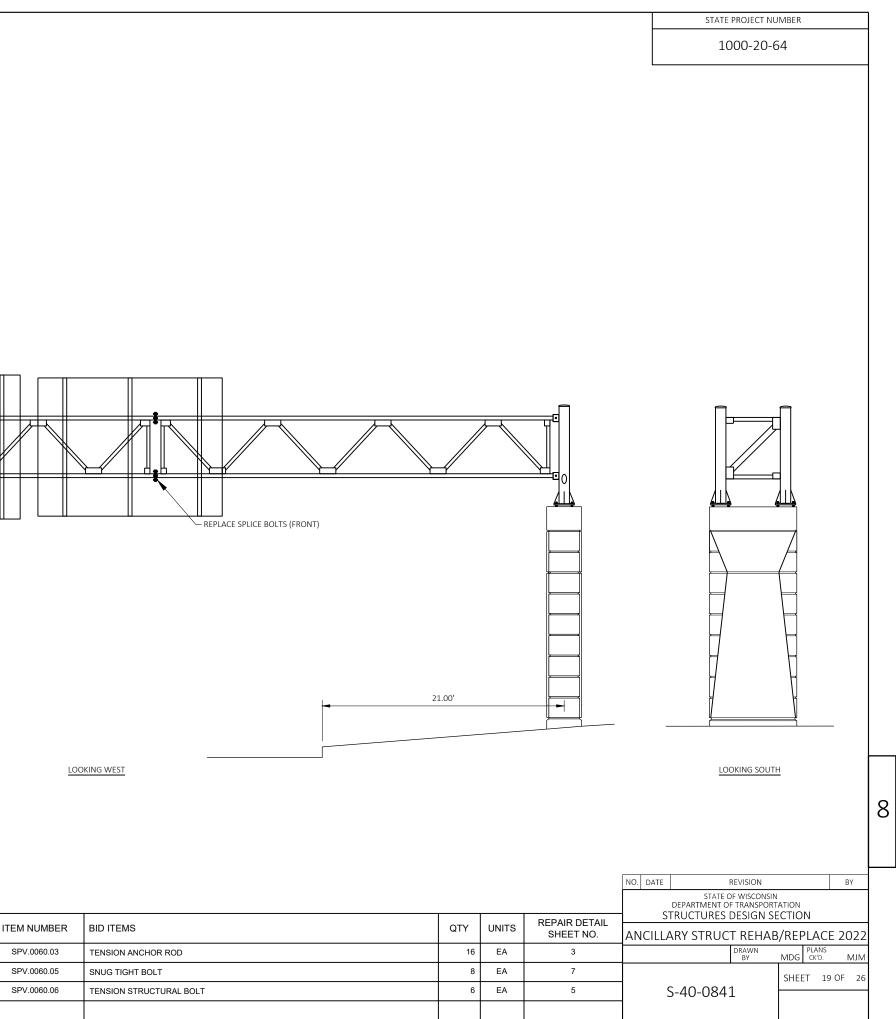
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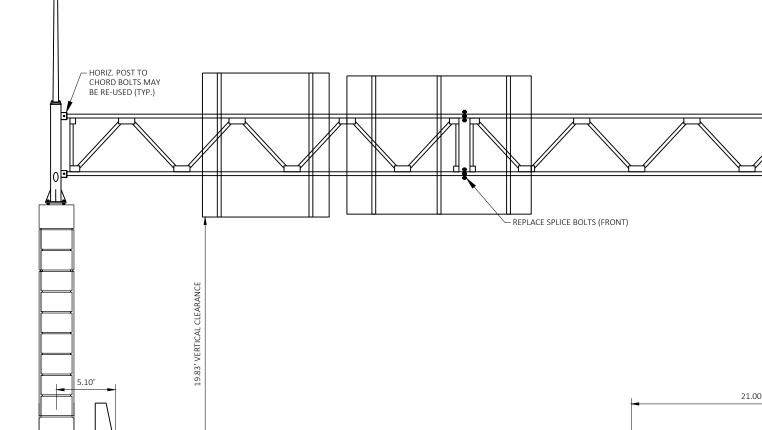




ITEM NUMBER	BID ITEMS	QTY	UNI
SPV.0060.08	REMOVE CATWALK AND L-BRACKETS	1	E,
SPV.0060.13	LUMINAIRE ITEMS	2	E,
SPV.0165.01	REPAIR GALVANIZED COATING	1	S





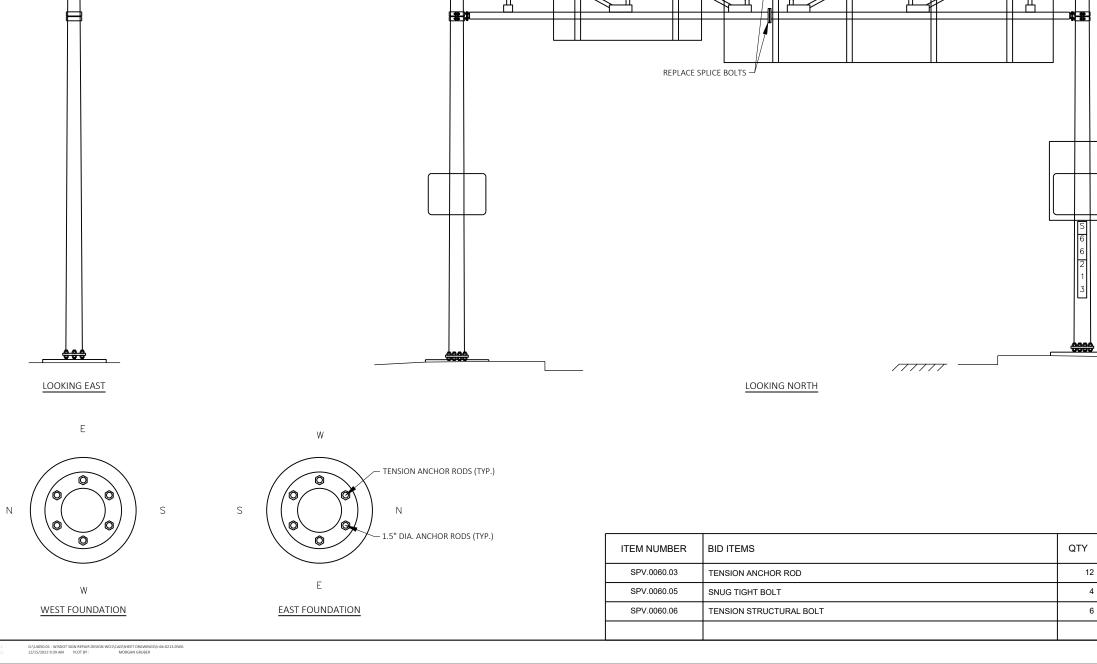


NOTE: STRUCTURE TRUSS TO BE REMOVED DURING ROLLINGS CLOSURE SO THAT IT CAN BE SUPPORTED DURING SPLICE BOLT REPLACEMENT AND REINSTALLED DURING ANOTHER ROLLING CLOSURE. TRUSS TO BE SUPPORTED DURING WORK. MEASURE GAPS IN ALL SPLICES PRIOR TO START AND ENSURE GAPS ARE CLOSED AFTER TENSIONING. USE SHIMS AS NEEDED. ANCHOR RODS TO BE TENSIONED PRIOR TO RE-INSTALLING TRUSS.

0

8

FILE NAME : PLOT DATE :



– VERTICAL POST TO CHORD BOLTS MAY BE RE-USED. ENSURE THAT END OF BOLT IS AT LEAST FLUSH WITH END OF NUT (TYP.)

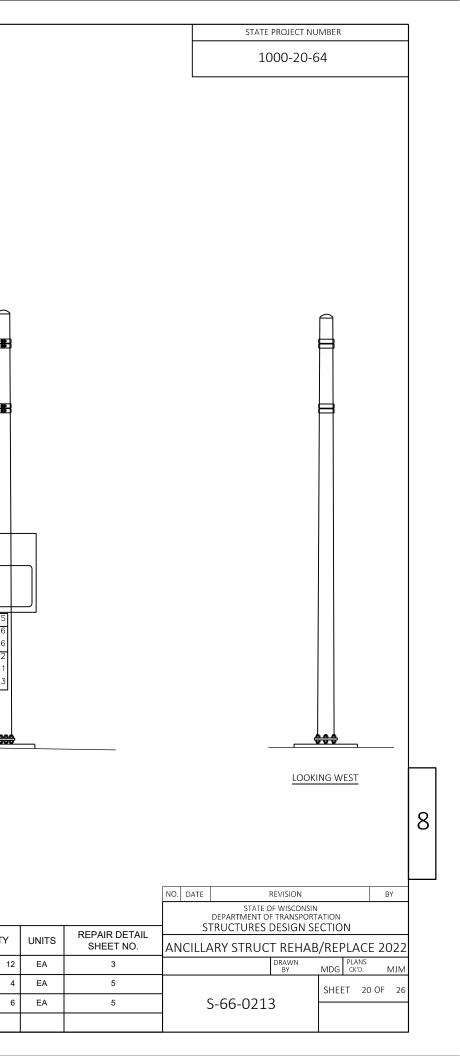
TRUSS.

CLOSURE. TRUSS TO BE SUPPORTED DURING WORK. MEASURE GAPS IN ALL SPLICES PRIOR TO START AND ENSURE GAPS ARE CLOSED AFTER TENSIONING. USE SHIMS AS NEEDED. ANCHOR RODS TO BE TENSIONED PRIOR TO RE-INSTALLING

STRUCTURE TRUSS TO BE REMOVED DURING ROLLING CLOSURE SO THAT IT CAN BE SUPPORTED DURING SPLICE BOLT REPLACEMENT AND REINSTALLED DURING ANOTHER ROLLING

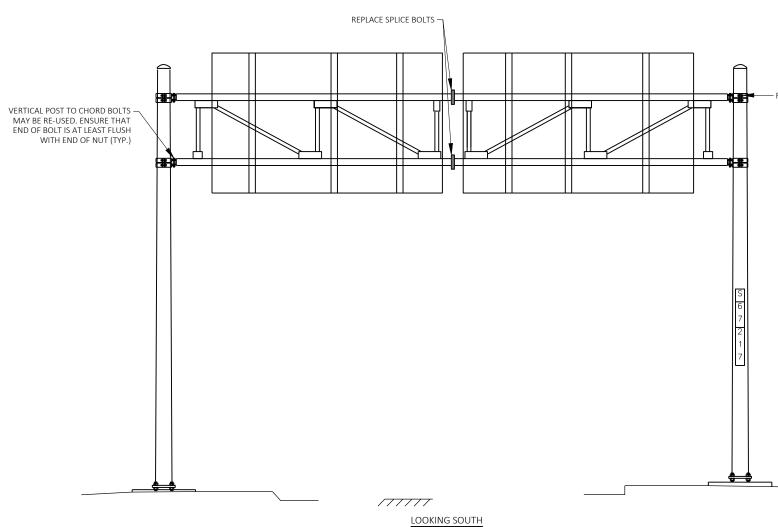
NOTE:

FILE NAME : PLOT DATE :

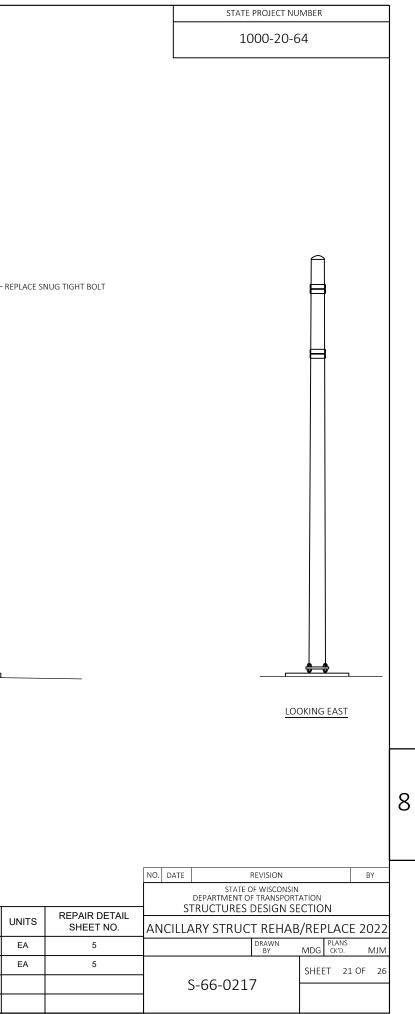


NOTE:

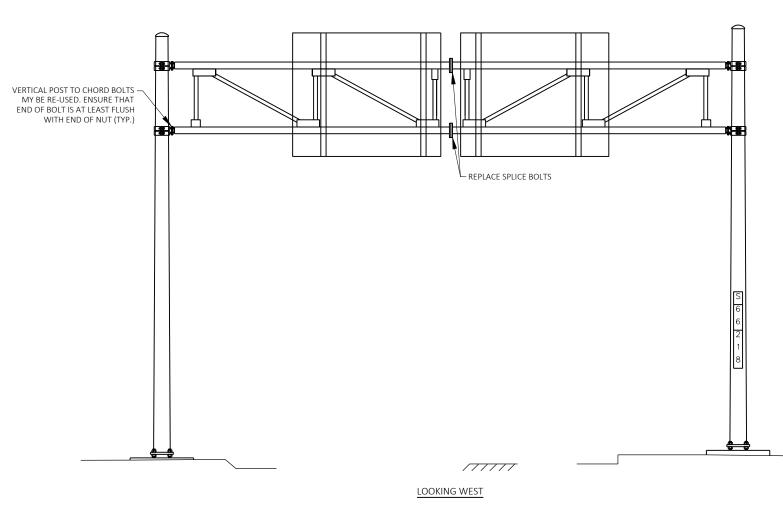
STRUCTURE TRUSS TO BE REMOVED DURING ROLLING CLOSURE SO THAT IT CAN BE SUPPORTED DURING SPLICE BOLT REPLACEMENT AND REINSTALLED DURING ANOTHER ROLLING CLOSURE. TRUSS TO BE SUPPORTED DURING WORK. MEASURE GAPS IN ALL SPLICES PRIOR TO START AND ENSURE GAPS ARE CLOSED AFTER TENSIONING. USE SHIMS AS NEEDED.



ITEM NUMBER	BID ITEMS	QTY	U
SPV.0060.05	SNUG TIGHT BOLT	5	
SPV.0060.06	TENSION STRUCTURAL BOLT	12	



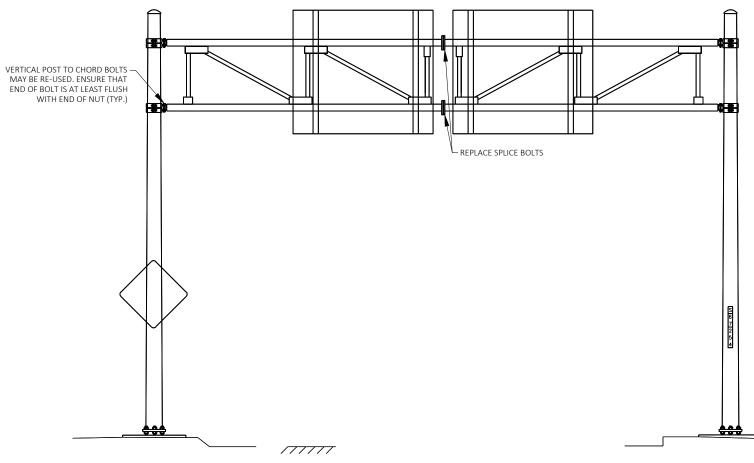
NOTE: STRUCTURE TRUSS TO BE REMOVED DURING ROLLING CLOSURE SO THAT IT CAN BE SUPPORTED DURING SPLICE BOLT REPLACEMENT AND REINSTALLED DURING ANOTHER ROLLING CLOSURE. TRUSS TO BE SUPPORTED DURING WORK. MEASURE GAPS IN ALL SPLICES PRIOR TO START AND ENSURE GAPS ARE CLOSED AFTER TENSIONING. USE SHIMS AS NEEDED.



ITEM NUMBER	BID ITEMS	QTY	U
SPV.0060.05	SNUG TIGHT BOLT	4	
SPV.0060.06	TENSION STRUCTURAL BOLT	12	

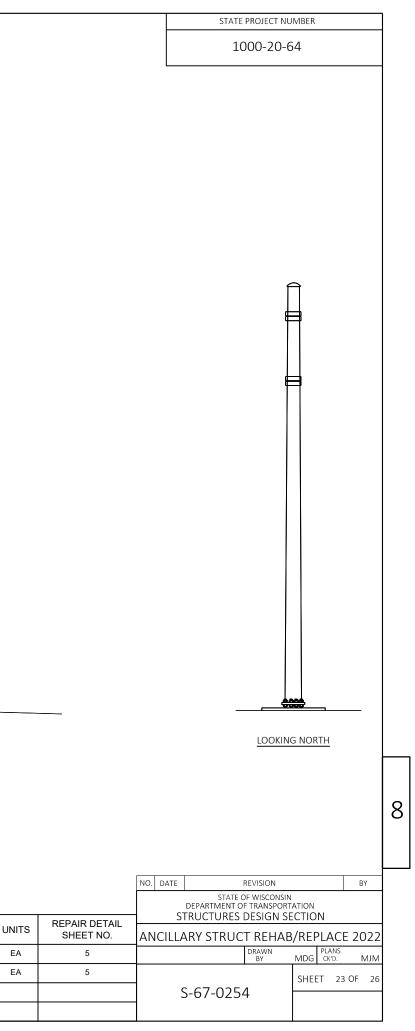
		STATE PROJECT NUMBER	
		1000-20-64	
		Î	
		E	
		LOOKING SOUTH	
			8
			0
		NO. DATE REVISION BY	
		STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STOLICTURES DECICAL SECTION	
UNITS	REPAIR DETAIL SHEET NO.	STRUCTURES DESIGN SECTION ANCILLARY STRUCT REHAB/REPLACE 2022	
EA	5	DRAWN BY MDG CK'D. MJM	
EA	5	SHEET 22 OF 26	
		J-00-0210	
		· · · · · · · · · · · · · · · · · · ·	

NOTE: STRUCTURE TRUSS TO BE REMOVED DURING ROLLING CLOSURE SO THAT IT CAN BE SUPPORTED DURING SPLICE BOLT REPLACEMENT AND REINSTALLED DURING ANOTHER ROLLING CLOSURE. TRUSS TO BE SUPPORTED DURING WORK. MEASURE GAPS IN ALL SPLICES PRIOR TO START AND ENSURE GAPS ARE CLOSED AFTER TENSIONING. USE SHIMS AS NEEDED.



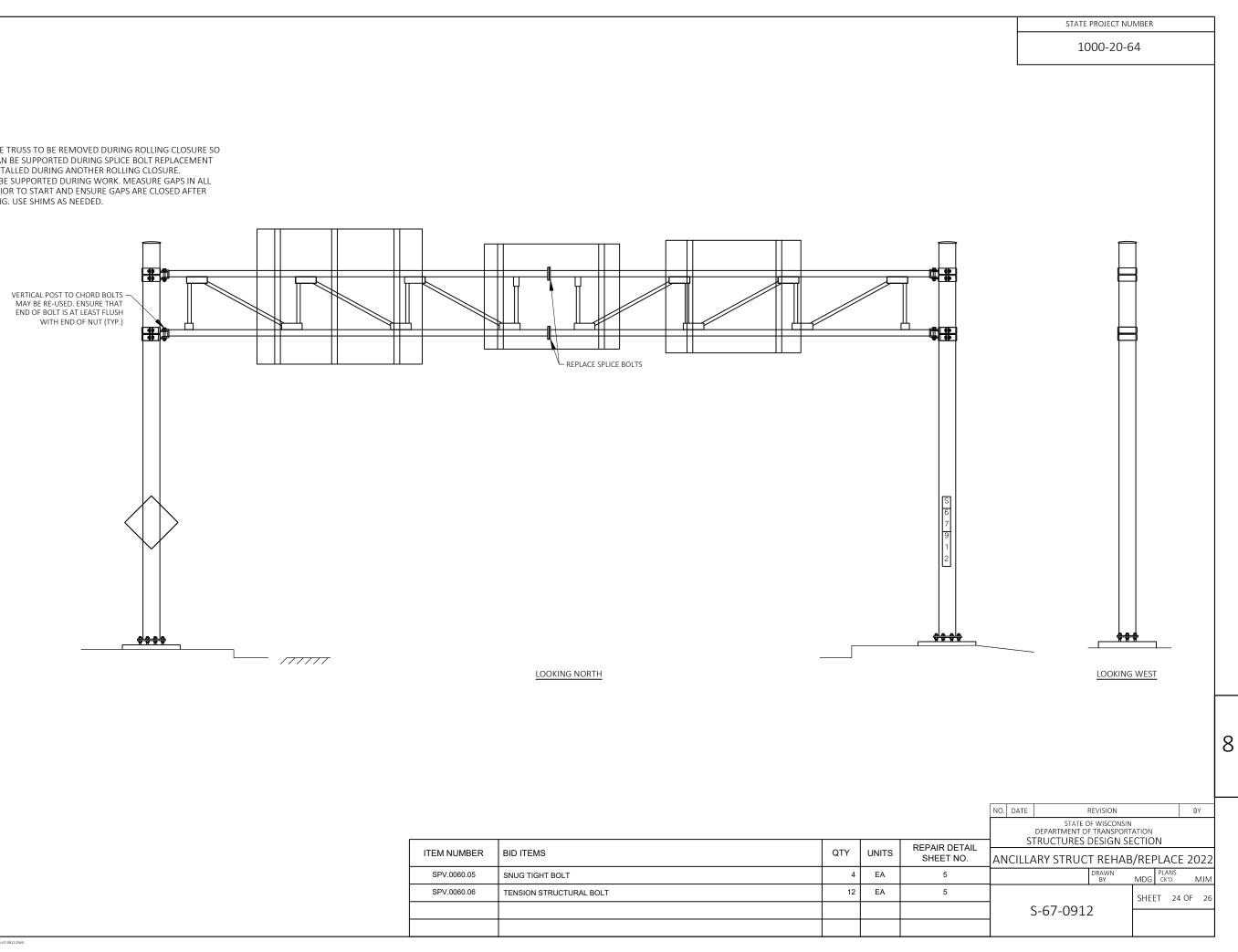
LOOKING EAST

ITEM NUMBER	BID ITEMS	QTY	U
SPV.0060.05	SNUG TIGHT BOLT	4	
SPV.0060.06	TENSION STRUCTURAL BOLT	12	



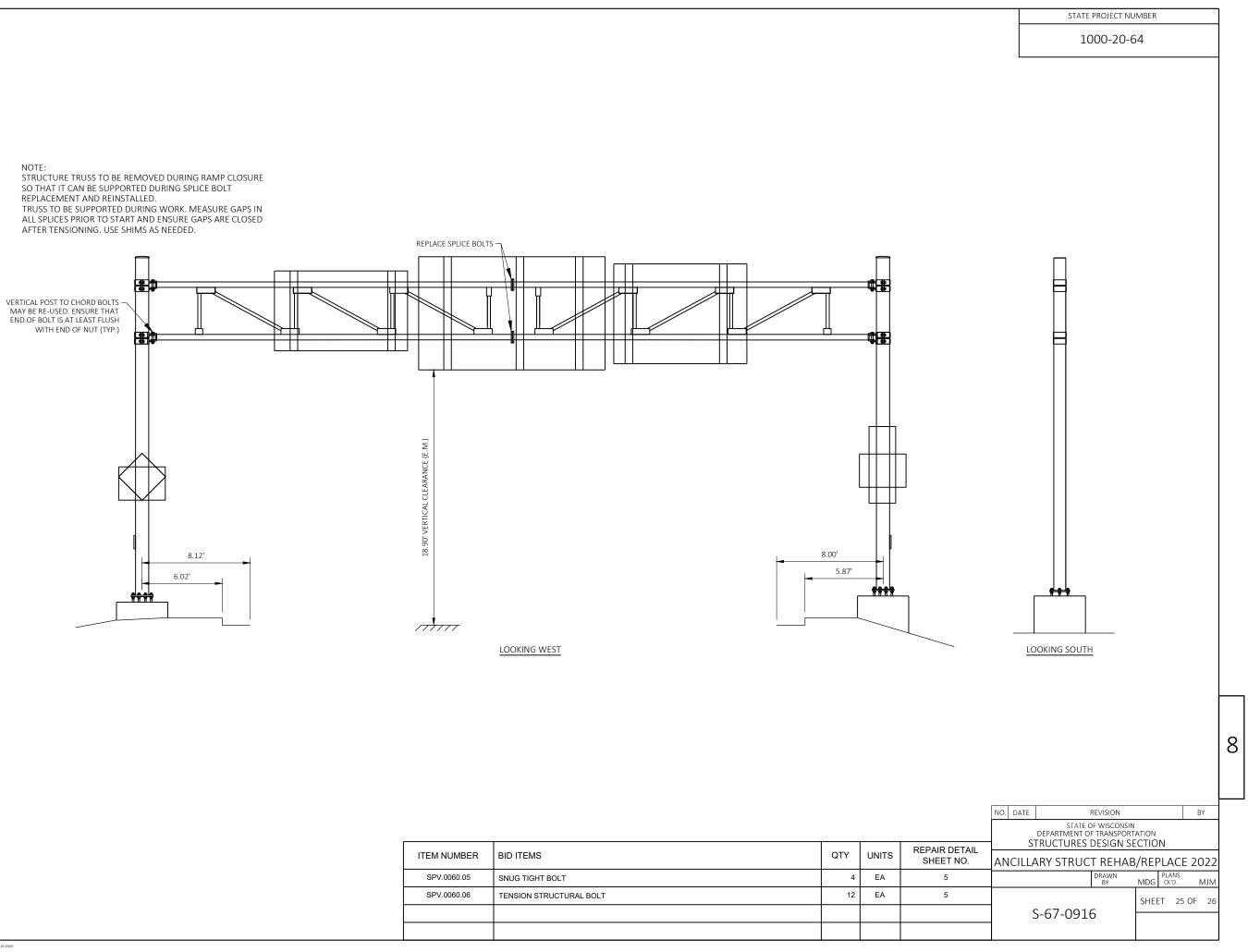
NOTE:

STRUCTURE TRUSS TO BE REMOVED DURING ROLLING CLOSURE SO THAT IT CAN BE SUPPORTED DURING SPLICE BOLT REPLACEMENT AND REINSTALLED DURING ANOTHER ROLLING CLOSURE. TRUSS TO BE SUPPORTED DURING WORK. MEASURE GAPS IN ALL SPLICES PRIOR TO START AND ENSURE GAPS ARE CLOSED AFTER TENSIONING. USE SHIMS AS NEEDED.



ITEM NUMBER	BID ITEMS	QTY	U
SPV.0060.05	SNUG TIGHT BOLT	4	
SPV.0060.06	TENSION STRUCTURAL BOLT	12	

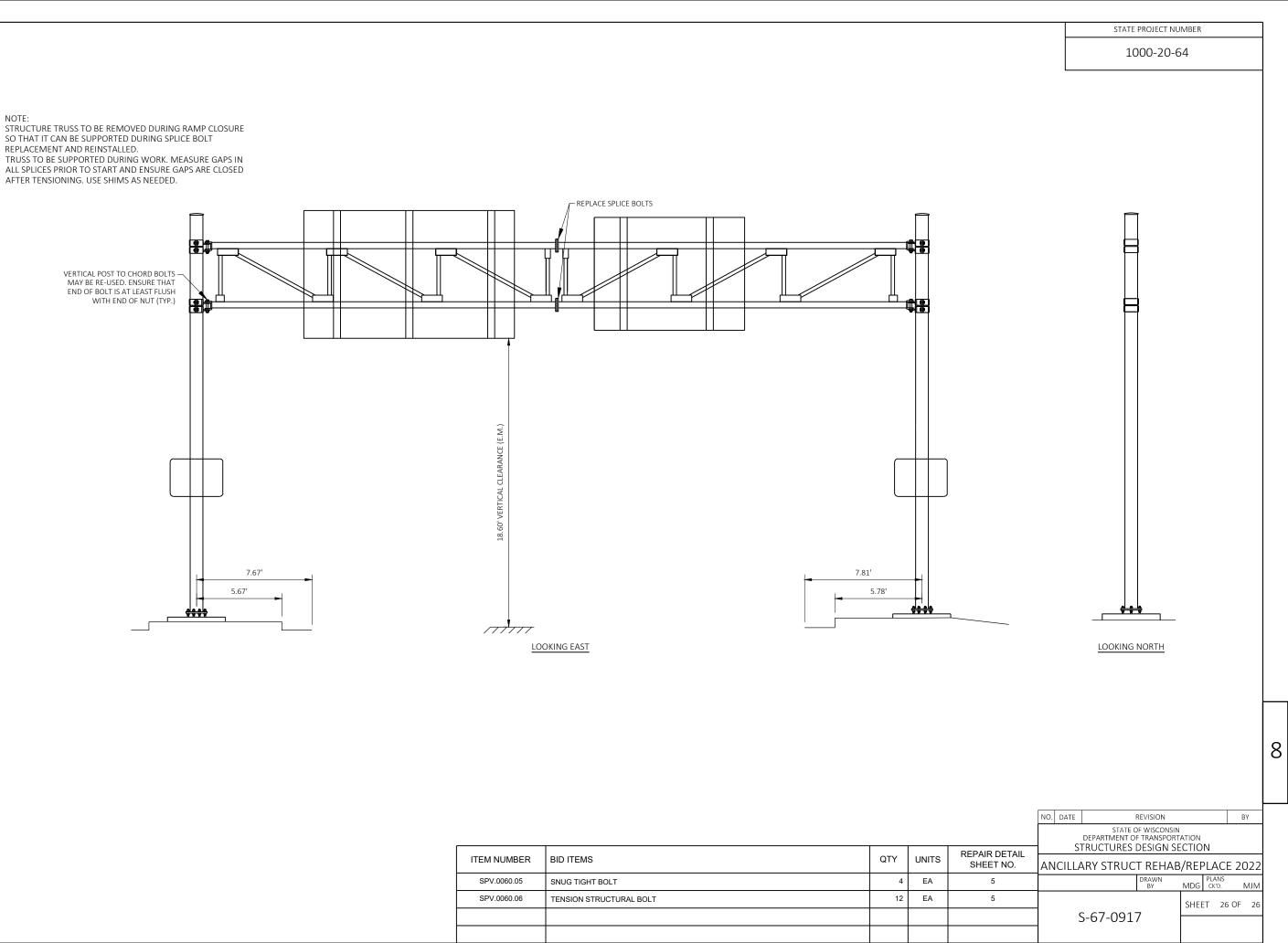




ITEM NUMBER	BID ITEMS	QTY	ι
SPV.0060.05	SNUG TIGHT BOLT	4	
SPV.0060.06	TENSION STRUCTURAL BOLT	12	

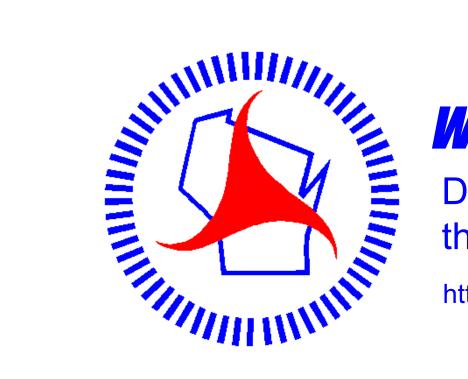
NOTE:

STRUCTURE TRUSS TO BE REMOVED DURING RAMP CLOSURE SO THAT IT CAN BE SUPPORTED DURING SPLICE BOLT REPLACEMENT AND REINSTALLED. TRUSS TO BE SUPPORTED DURING WORK. MEASURE GAPS IN ALL SPLICES PRIOR TO START AND ENSURE GAPS ARE CLOSED



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ITEM NUMBER	BID ITEMS	QTY	l
SPV.0060.05	SNUG TIGHT BOLT	4	
SPV.0060.06	TENSION STRUCTURAL BOLT	12	



Wisconsin Department of Transportation

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