### SEPTEMBER 2022 SUP

ORDER OF SHEETS

Section No. Title 1 2 Section No. Typical Sections and Details (Including Erosion Control) Section No. Estimate of Quantities 3 Section No. Miscellaneous Quantities 3 Section No. 5 Plan and Profile Section No. 6 Standard Detail Drawings

Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

124

TOTAL SHEETS =

### DESIGN DESIGNATION

A.A.D.T.	2023	=	4,000
A.A.D.T.	2043	=	4,800
D.H.V.	2043	=	1,100
D.D.		=	61/39
Т.		=	13.4%
DESIGN SPEED		=	55 MPH
ESALS		=	1,489,200



PLAN		PROFILE
CORPORATE LIMITS	<u>///////</u>	GRADE LINE
PROPERTY LINE		ORIGINAL GROUND
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)
LIMITED HIGHWAY EASEMENT	L	SPECIAL DITCH
EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE		GRADE ELEVATION
SLOPE INTERCEPT		CULVERT (Profile View)
REFERENCE LINE	300'EB'	UTILITIES
		ELECTRIC
EXISTING CULVERT		FIBER OPTIC
PROPOSED CULVERT (Box or Pipe)		GAS
	MA	SANITARY SEWER
COMBUSTIBLE FLUIDS	-CAUTION-	STORM SEWER
		TELEPHONE
MARSH ARFA		WATER
		UTILITY PEDESTAL
		POWER POLE
WOODED OR SHRUB AREA	٤	TELEPHONE POLE

LABEL

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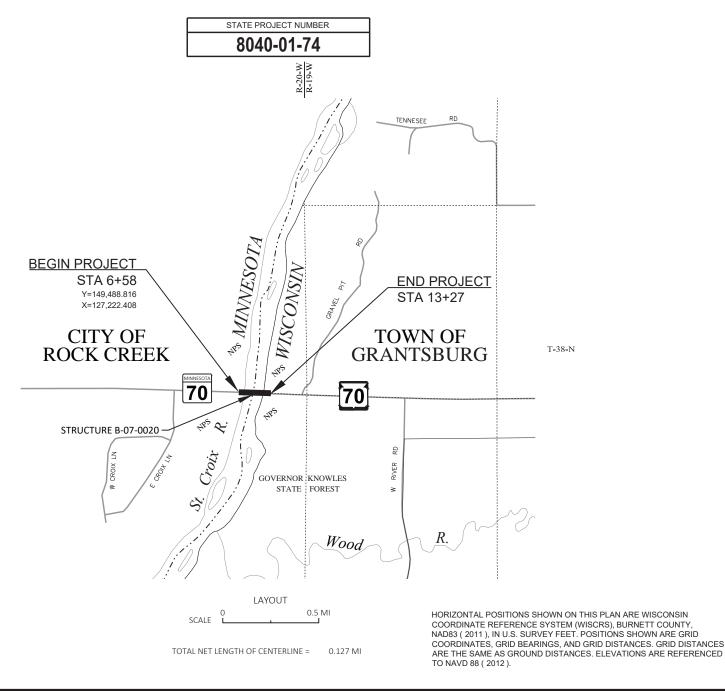
### **STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION**

PLAN OF PROPOSED IMPROVEMENT

### **ST CROIX RIVER - GRANTSBURG**

ST CROIX RIVER BRIDGE B-07-0020

**STH 70 BURNETT COUNTY** 

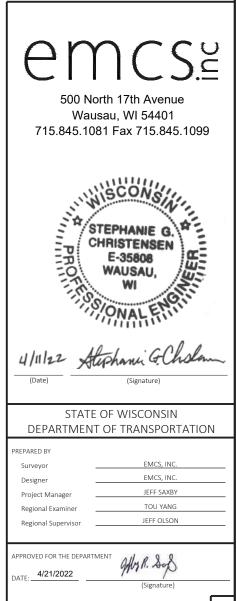


P:\52XX\5209.DP.19.STH70.BUR\CADDS\80400174\SHEETSPLAN\010101-TI.DWG FILE NAME :

PROJECT ID: WITH: N/A

8040-01-74

STATE PROJECT	FEDERAL PROJECT					
	PROJECT	CONTRACT				
8040-01-74						



### GENERAL NOTES

2

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

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER. LIMIT THE AREA OF CLEARING AND GRUBBING TO THE SPOT LOCATIONS DESIGNATED WITHIN THE SLOPE INTERCEPTS ONLY.

EX R/W = EXISTING RIGHT-OF-WAY

HED = HIGHWAY EASEMENT DEED

### AS-BUILTS USED FOR PLAN DEVELOPMENT

PROJECT NO: 8040-01-71, CONSTRUCTION YEAR: 1991 PROJECT NO: 8040-01-72, CONSTRUCTION YEAR: 1991 PROJECT NO: 8040-01-73, CONSTRUCTION YEAR: 1991

### ORDER OF SECTION 2 SHEETS

TYPICAL SECTIONS CONSTRUCTION DETAILS EROSION CONTROL TRAFFIC CONTROL

### RUNOFF COEFFICIENT TABLE

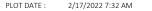
		HYDROLOGIC SOIL GROUP										
		A B			С			D				
	S	LOPE RAN	NGE (PERCENT)	SLOP	PE RANGI	E (PERCENT)	SLOPI	E RANGE	(PERCENT)	SLOP	'E RANGE	(PERCENT)
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:	•						•			•		
ASPHALT						.7095						
CONCRETE						.8095						
BRICK						.7080						
DRIVES, WALKS						.7585						
ROOFS						.7595						
GRAVEL ROADS, SHO	DULDERS					.4060						

TOTAL PROJECT AREA = 3.81 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES (WI) = 0.23 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES (MN) = 0.12 ACRES

PROJECT NO: 8040-01-74	HWY: STH 70	COUNTY: BURNETT			GENERAL NOTES		
FILE NAME : P:\52XX\5209.DP.19.STH70.BUR\CADDS\80400174\SHEETSPLAN\020101-G	N.DWG	PLO	OT DATE :	2/17/2022 7:32 AM	PLOT BY :	DREW NELSON	PLOT NAME :



LUMEN F/K/A CENTURYLINK CHUCK DAHER 479 APOLLO DR CIRCLE PINES, MN 55014 PHONE: (612) 298-2825 CDHAER@TERRATECHLLC,NET



### WDNR LIAISON

AMY CRONK DNR NORTHERN REGION HEADQUARTERS 810 W. MAPLE STREET SPOONER, WI 54801 (715) 635-4229 (715) 520-3976 AMY.CRONK@WISCONSIN.GOV

### MNDNR LIAISON

PATRICIA FOWLER MNDOT OFFICE OF ENVIRONMENTAL STEWARDSHIP 395 JOHN IRELAND BLVD., MS 620 ST. PAUL, MN 55155 (218 302-3246 PATRICIA.FOWLER@STATE.MN.US

### UTILITIES

ELECTRIC NORTHWESTERN WISCONSIN ELECTRIC COMPANY BILL COOPER 104 S PINE ST GRANTSBURG, WI 54840 PHONE: (715) 463-1977 BILLCOOPER@NWECO.COM

### GAS/PETROLEUM

NORTHERN NATURAL GAS COMPANY JOE ANDERSON 6579 420TH STREET HARRIS, MN 55032 PHONE: (402) 530-3156 JOSEPH.ANDERSON@NNGCO.COM



### OTHER CONTACTS

### NATIONAL PARK SERVICE

LISA YAGER CHIEF OF RESOURCE STEWARDSHIP AND EDUCATION ST. CROIX NATIONAL SCENIC RIVERWAY 401 N. HAMILTON STREET ST. CROIX FALLS, WI 54024 (715) 483-2290 (715) 501-0495 LISA\_YAGER@NPS.GOV

LAURA HOJEM LANDS PROGRAM MANAGER ST. CROIX NATIONAL SCENIC RIVERWAY 401 N. HAMILTON STREET ST. CROIX FALLS, WISCONSIN 54024 (715) 483-2261 (715) 501-8813 LAURA\_HOJEM@NPS.GOV

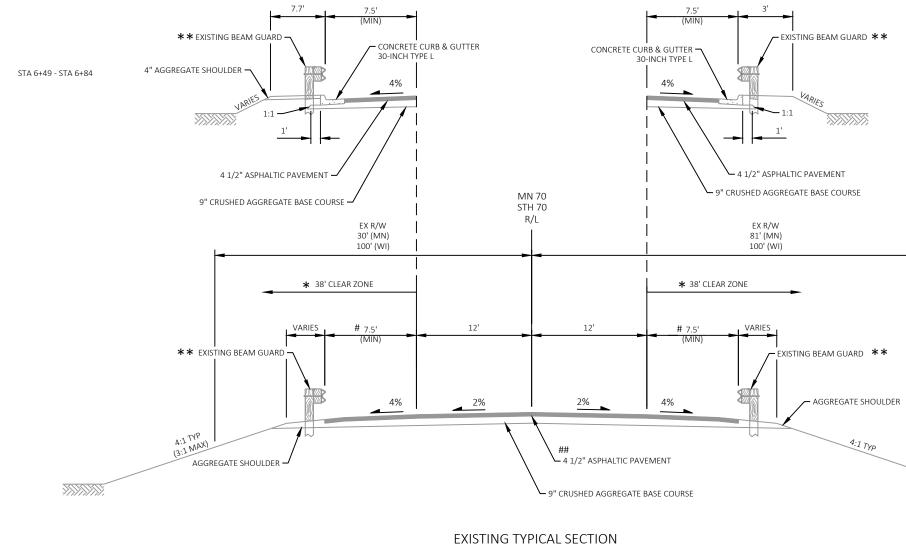
### DESIGNER CONTACT

EMCS, INC. 500 NORTH 17TH AVENUE WAUSAU, WI 54401 (715) 845-1081

SHEET

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2



STA 5+41 - STA 7+02 (B-07-0020) STA 13+06 (B-07-0020) - STA 15+57

### NOTES

2

\* CLEAR ZONE IN LOCATIONS WHERE BEAM GUARD IS NOT PRESENT IS 38' OR EXISTING TOE OF SLOPE.

**\*\*** SEE SECTION 5 PLAN SHEETS FOR LIMITS OF EXISTING BEAM GUARD.

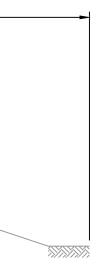
# THE EDGE OF SHOULDER IS 18' FROM THE REFERENCE LINE WHERE BEAM GUARD IS NOT PRESENT (3' AGGREGATE SHOULDER).

## EXISTING CONCRETE APPROACH SLABS ARE PRESENT ADJACENT TO B-07-0020.

PROJECT NO: 8040-01-74	HWY: STH 70	COUNTY: BURNETT		TYPICAL SECTIO	NS	
FILE NAME : P:\52XX\5209.DP.19.STH70.BUR\CADDS\80400174\SHEETSPLAN\020301-T	S.DWG	PLOT DATE :	4/18/2022 3:48 PM	PLOT BY :	ADMIN	PLOT NAME :

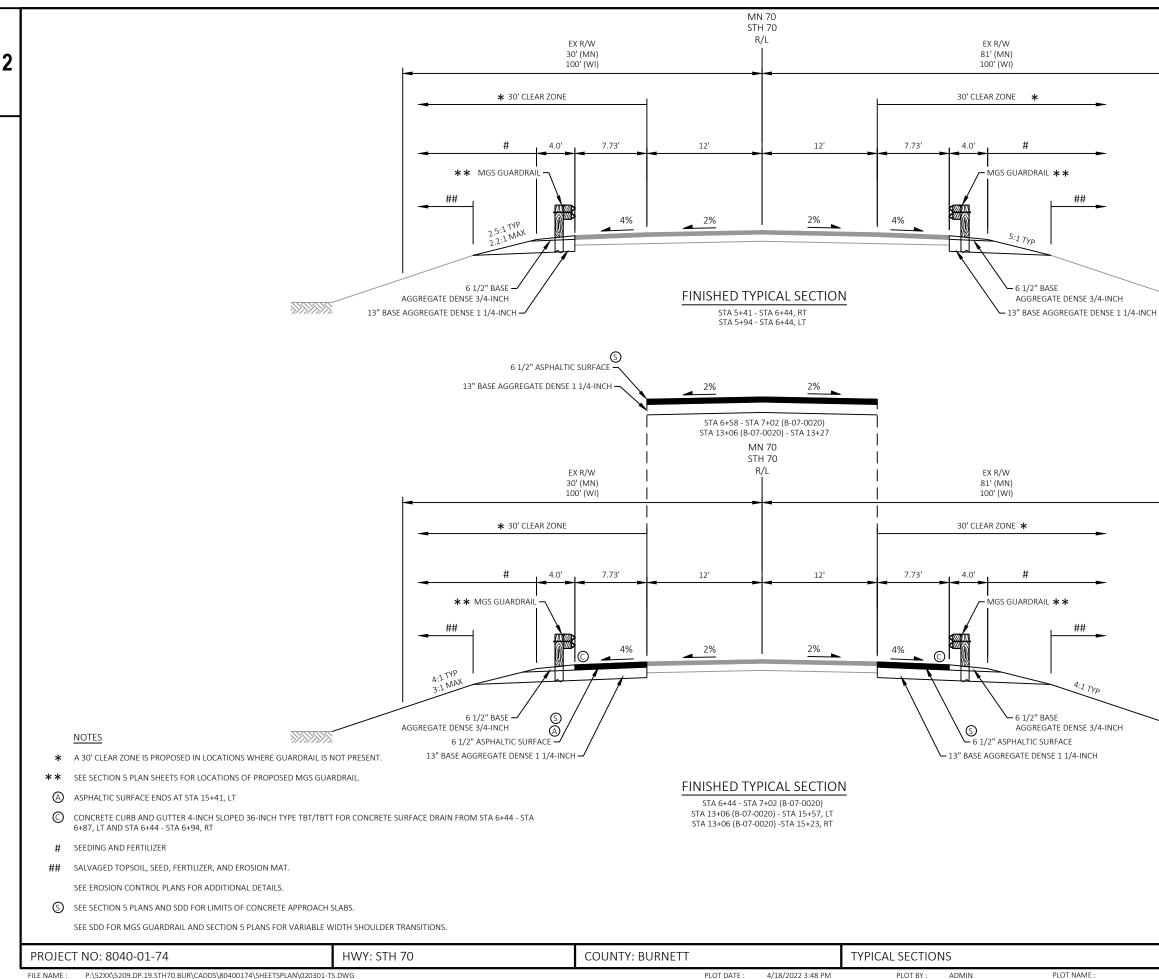
PLOT NAME

STA 6+49 - STA 6+94



2

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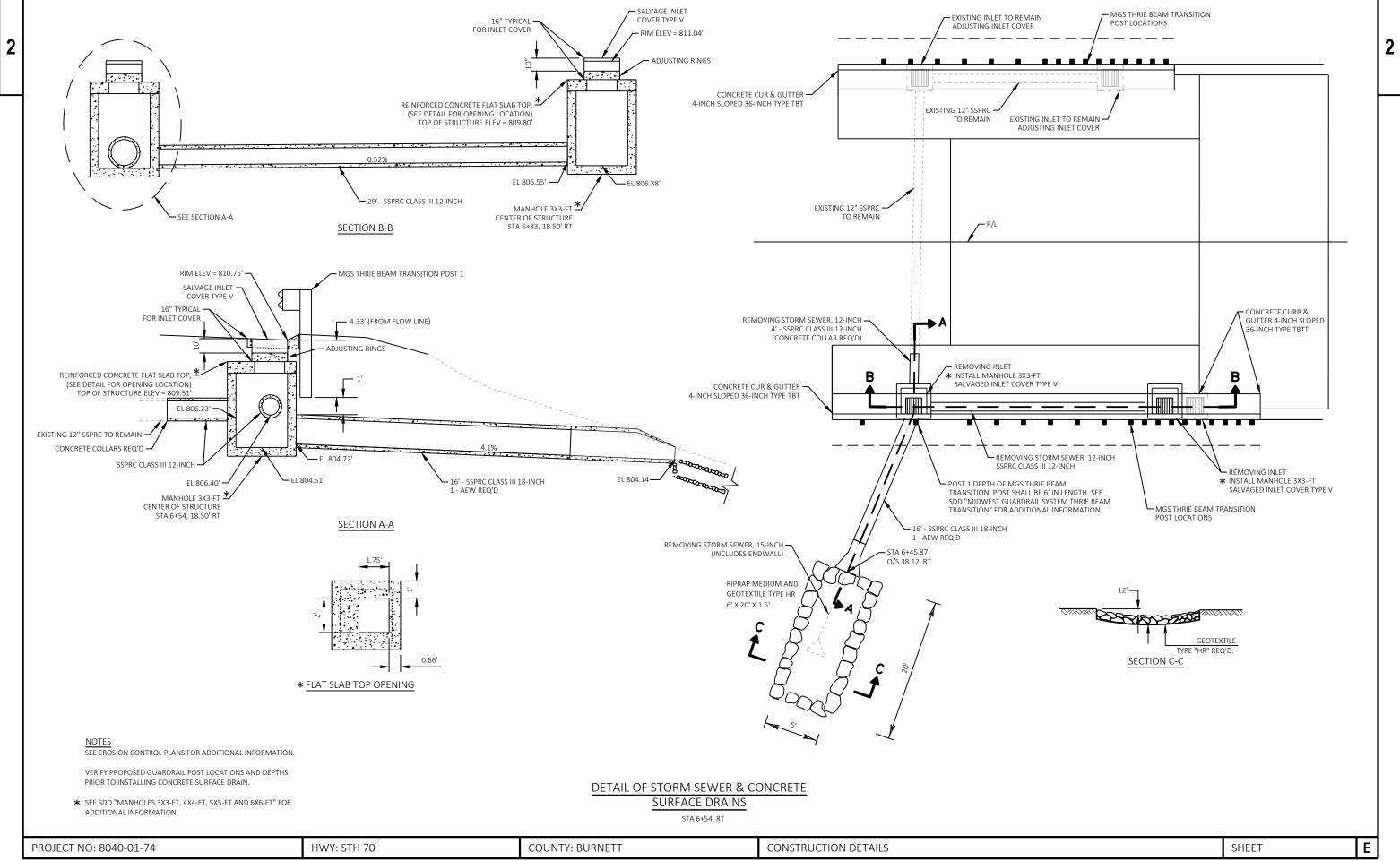
P:\52XX\5209.DP.19.STH70.BUR\CADDS\80400174\SHEETSPLAN\020301-TS.DWG FILE NAME : LAYOUT NAME - 02

PLOT DATE : 4/18/2022 3:48 PM

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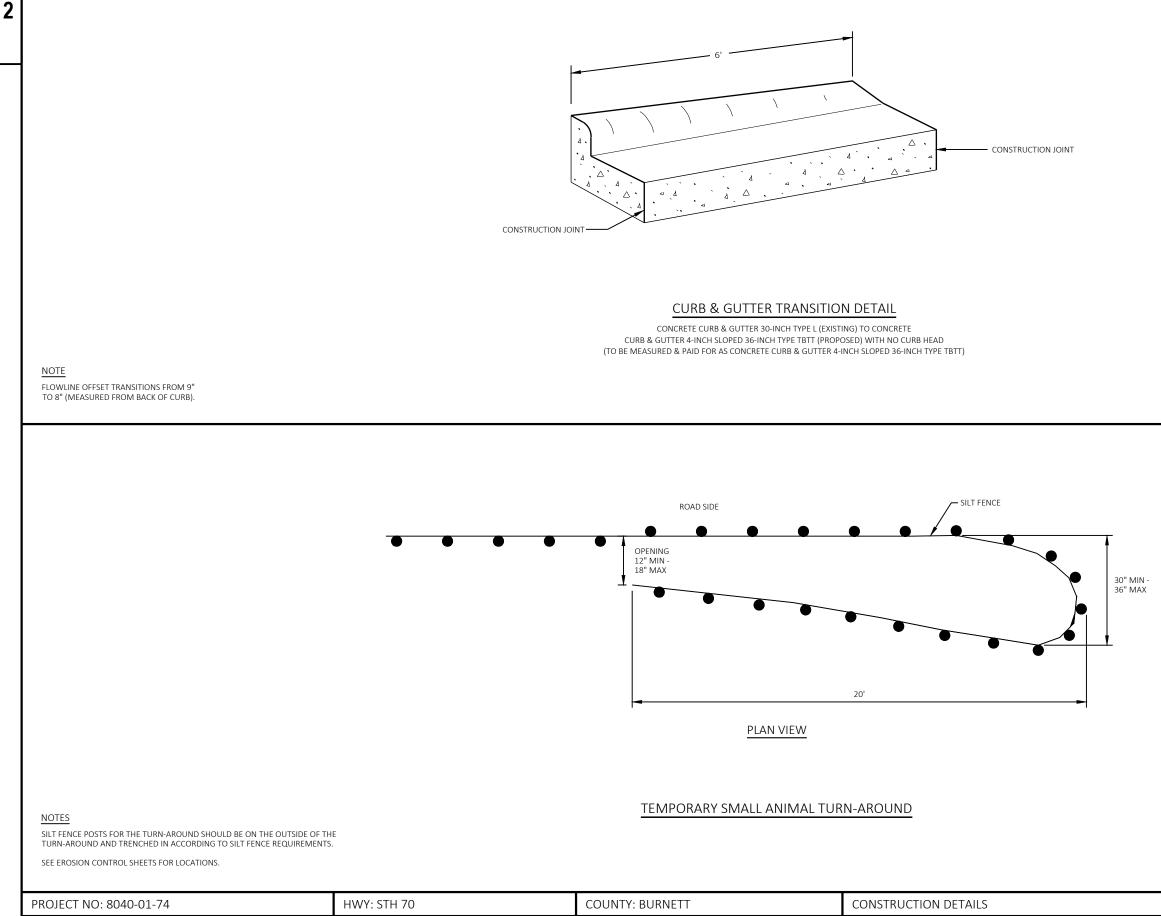
SHEET

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FILE NAME : P:\52XX\5209.DP.19.STH70.BUR\CADDS\80400174\SHEETSPLAN\021001-CD.DWG LAYOUT NAME - 01 PLOT DATE : 4/20/2022 8:17 AM PLOT BY : ADMIN

PLOT NAME

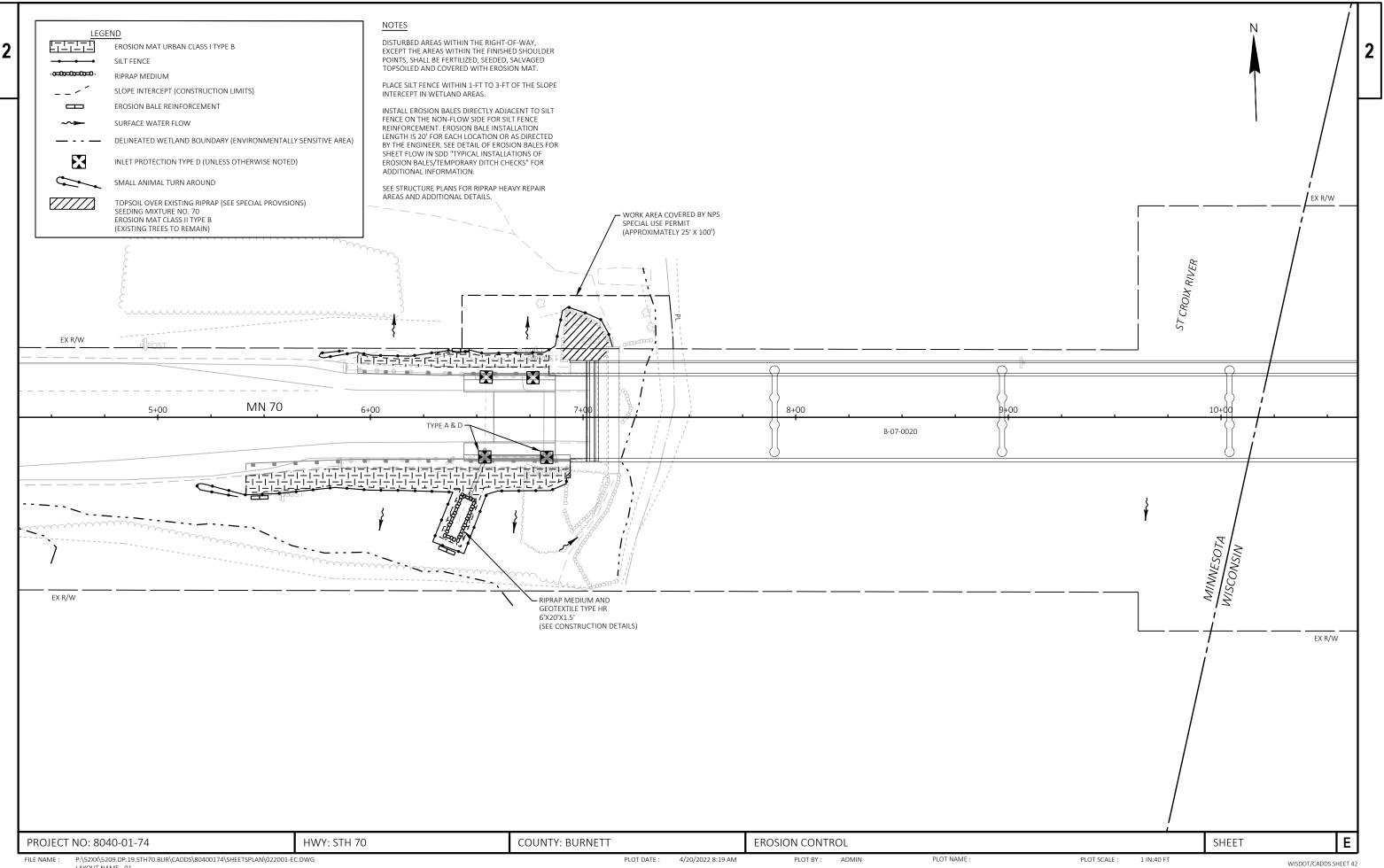


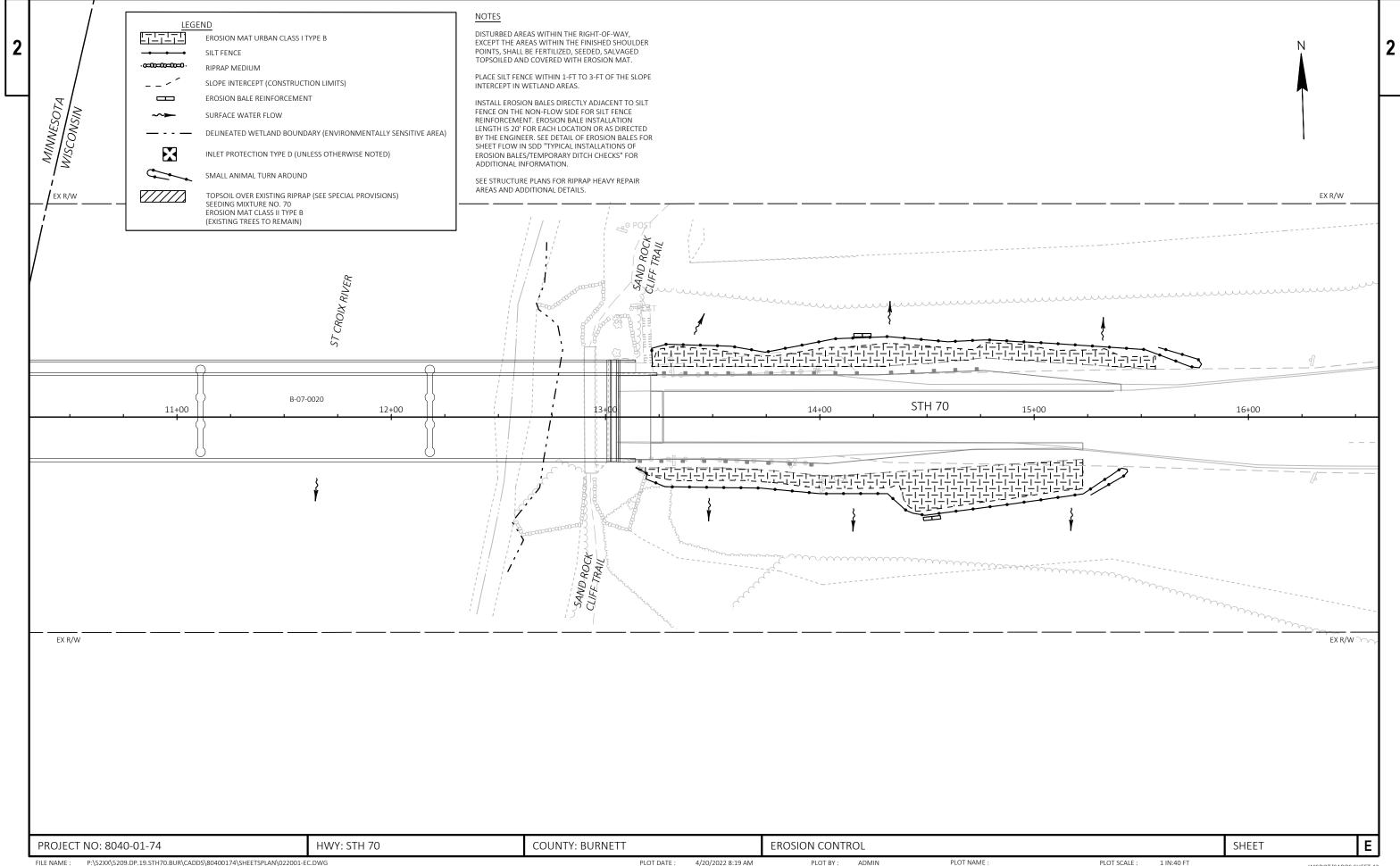
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PLOT DATE : 2/25/2022 11:03 AM PLOT BY : ERIK OLESON

PLOT NAME :

2





WISDOT/CADDS SHEET 42

### RAFFIC CONTROL GENERAL NOTES

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

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

. ALL TYPE III BARRICADES SHALL BE EQUIPPED WITH TYPE "A" (LOW INTENSITY LASHING) LIGHTS PER SDDS.

4. SEE SDD "TRAFFIC CONTROL - WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY" TO CLOSE SHOULDERS DURING NON-WORKING HOURS.

### NOTES

2

POST THE WIDTH RESTRICTION ADVANCED WARNING SIGNS AT THE LOCATIONS PROVIDED DURING ALL STAGES.

LEGEND

WORK ZONE

TRAFFIC CONTROL SIGN PCMS

MB

- \* PLACE SIGN M1-6 OR M1-5M AND M3-2 OR M3-4 WHEN ASSEMBLY IS MOUNTED ON ALL ROADWAYS OTHER THAN MN 70/STH 70 AND SIGN 14.
- \*\* PLACE SIGN MB3-2 ON THE FOLLOWING ASSEMBLIES.

\*\*\* PLACE SIGN M3-4 ON THE FOLLOWING ASSEMBLIES. (11

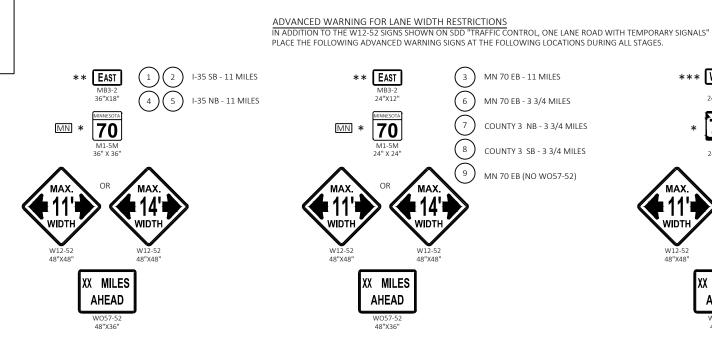
ADJUST TRAFFIC CONTROL PCMS MESSAGES AS NEEDED BASED ON CONSTRUCTION SCHEDULE.

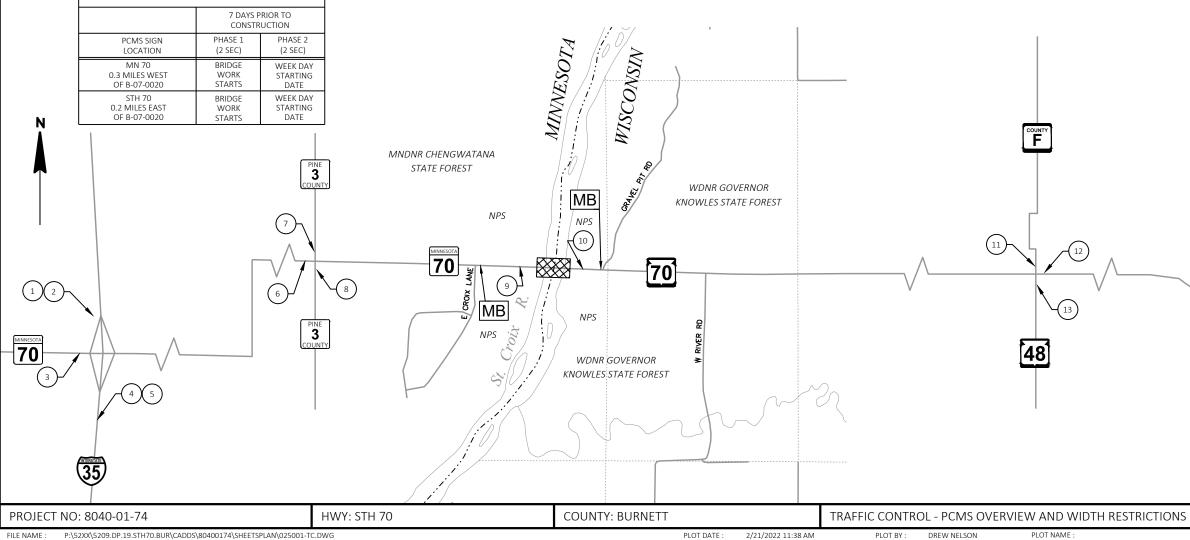
CONSIDER GEOMETRICS WHEN LOCATING MESSAGE BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE BOARD FOR A MINIMUM OF 1,000 FEET IN FRONT OF THE MESSAGE BOARD. PLACE MESSAGE BOARDS AS FAR AWAY FROM LIVE TRAFFIC LANES AS POSSIBLE WITHOUT HAMPERING VISIBILITY.

PLACE TRAFFIC CONTROL SIGNS PCMS AND DISPLAY THE MESSAGE 7 DAYS PRIOR TO THE EXPECTED START OF THE PROPOSED WORK.

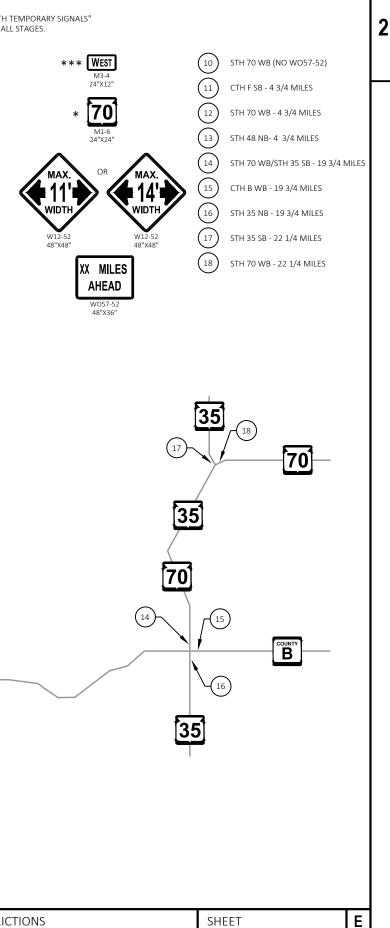
MN SEE MINNESOTA DEPARTMENT OF TRANSPORTATION SIGN STANDARDS FOR ROUTE MARKER SIGN DETAILS IN MINNESOTA: HTTP://WWW.DOT.STATE.MN.US/TRAFFICENG/PUBL/SIGNSMANUAL/

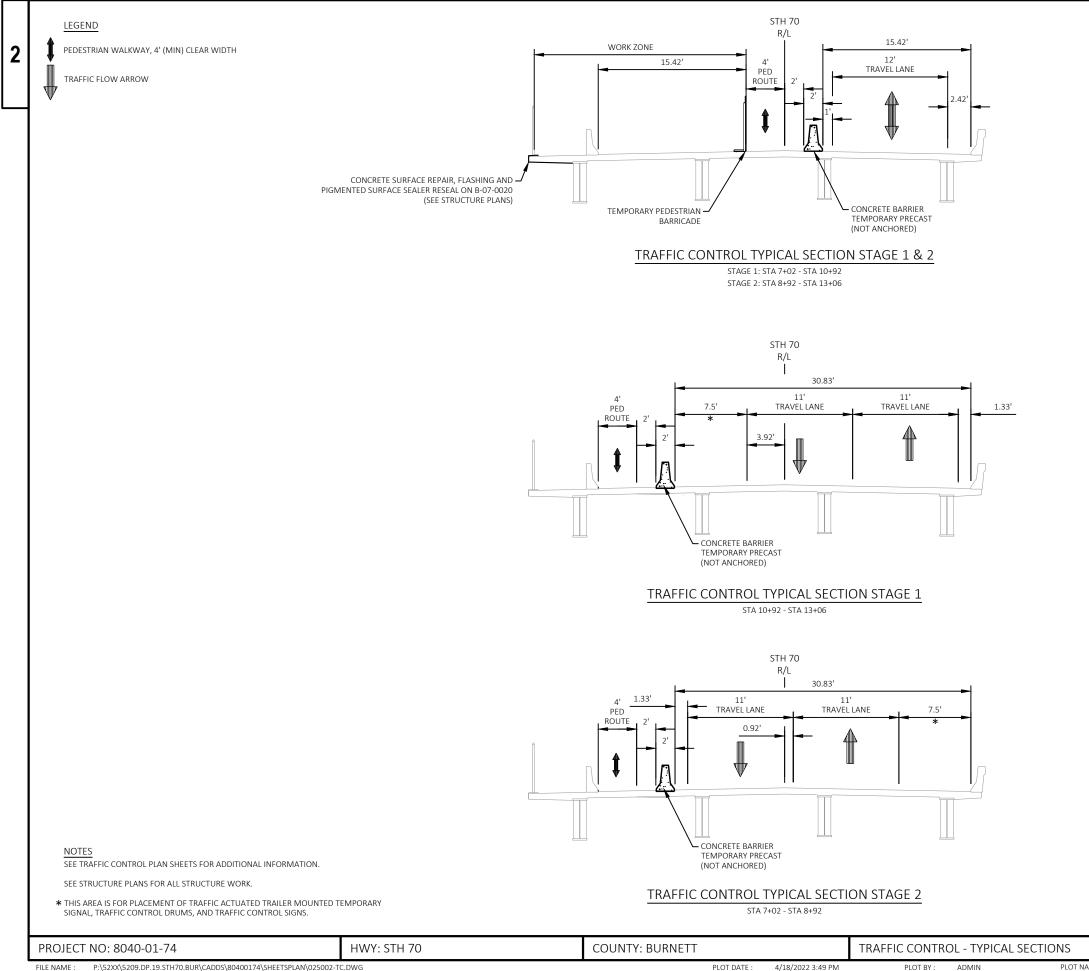
TRAFFIC CONTROL SIGNS PCMS MESSAGES





PLOT DATE : 2/21/2022 11:38 AM





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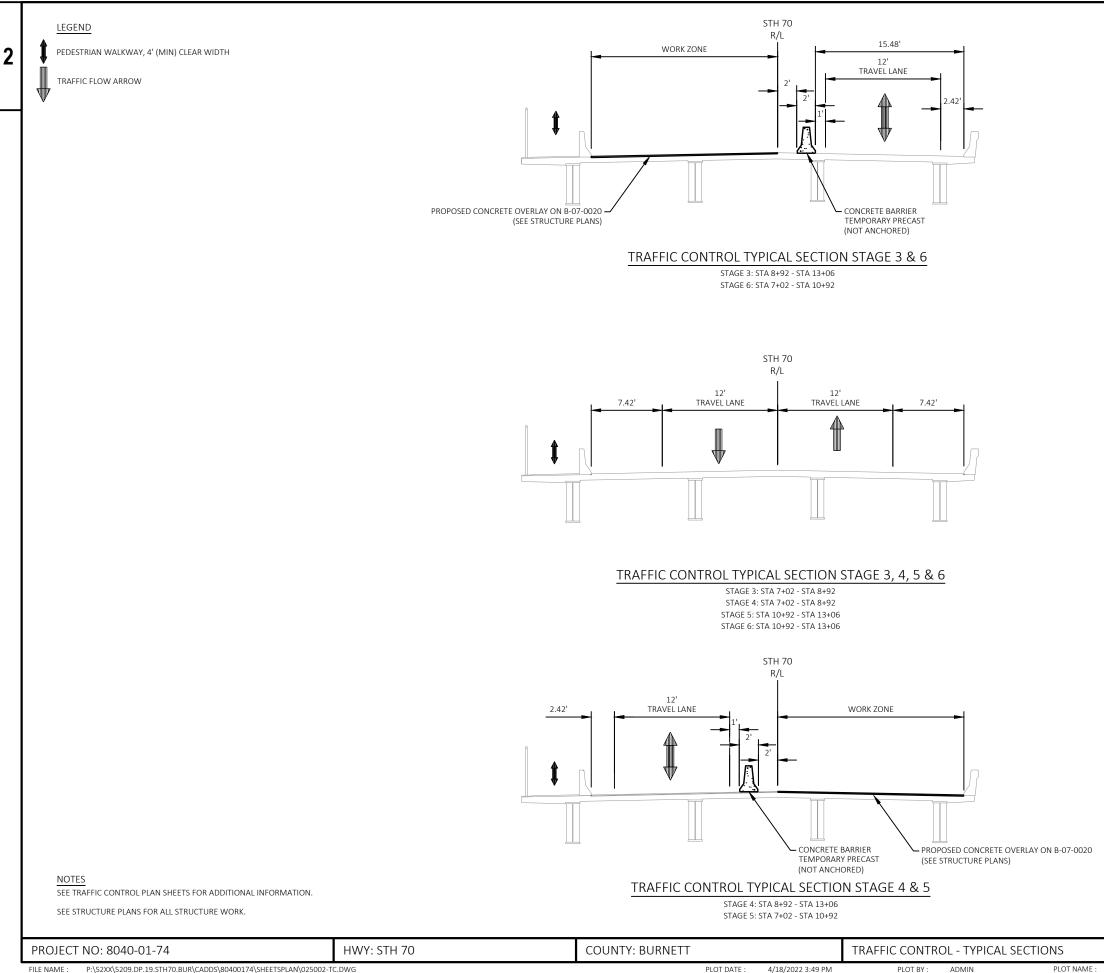
PLOT DATE : 4/18/2022 3:49 PM

ADMIN

PLOT NAME :

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FILE NAME : P:\52XX\5209.DP.19.STH70.BUR\CADDS\80400174\SHEETSPLAN\025002-TC.DWG LAYOUT NAME - 02

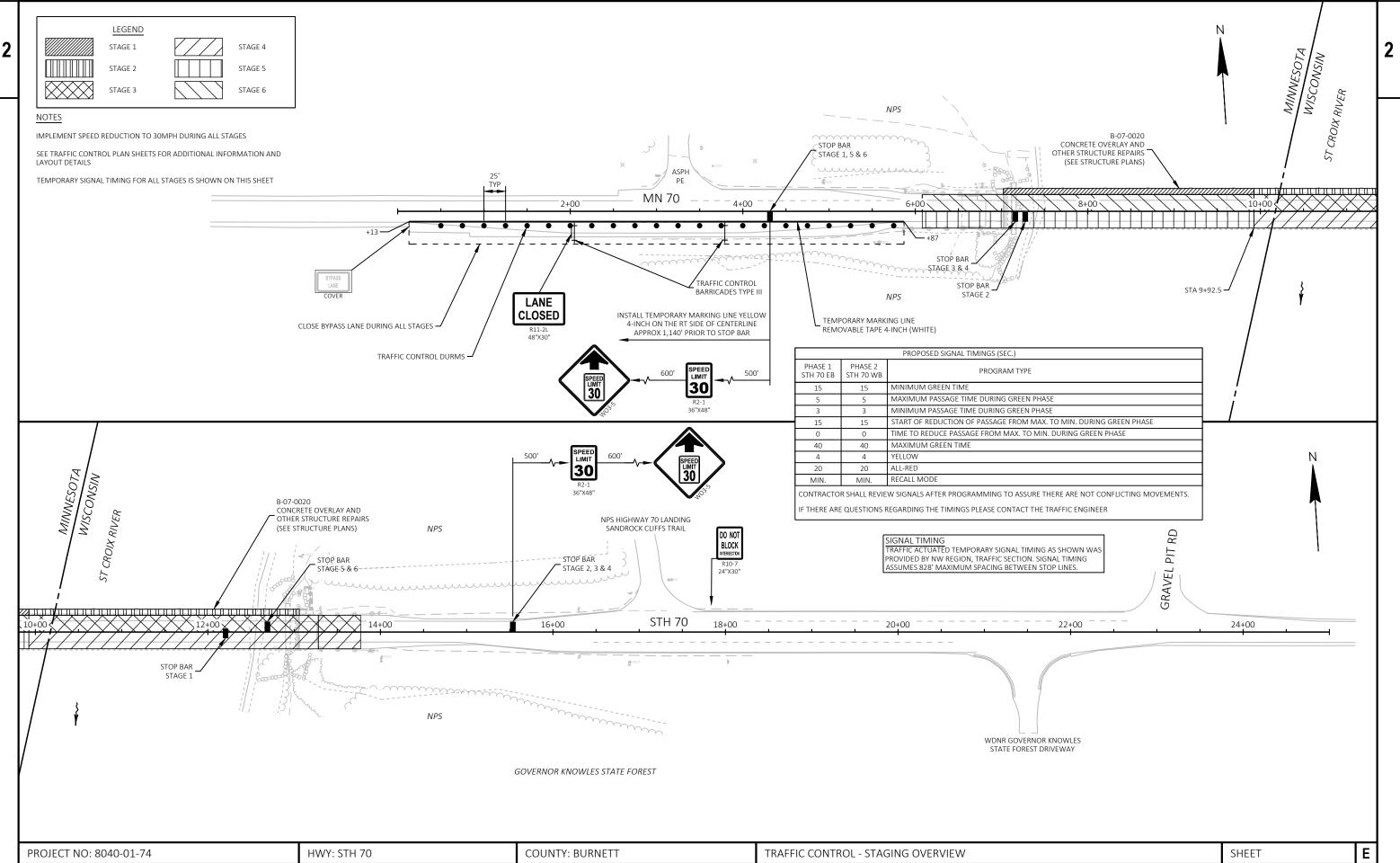
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ADMIN

PLOT BY :

2

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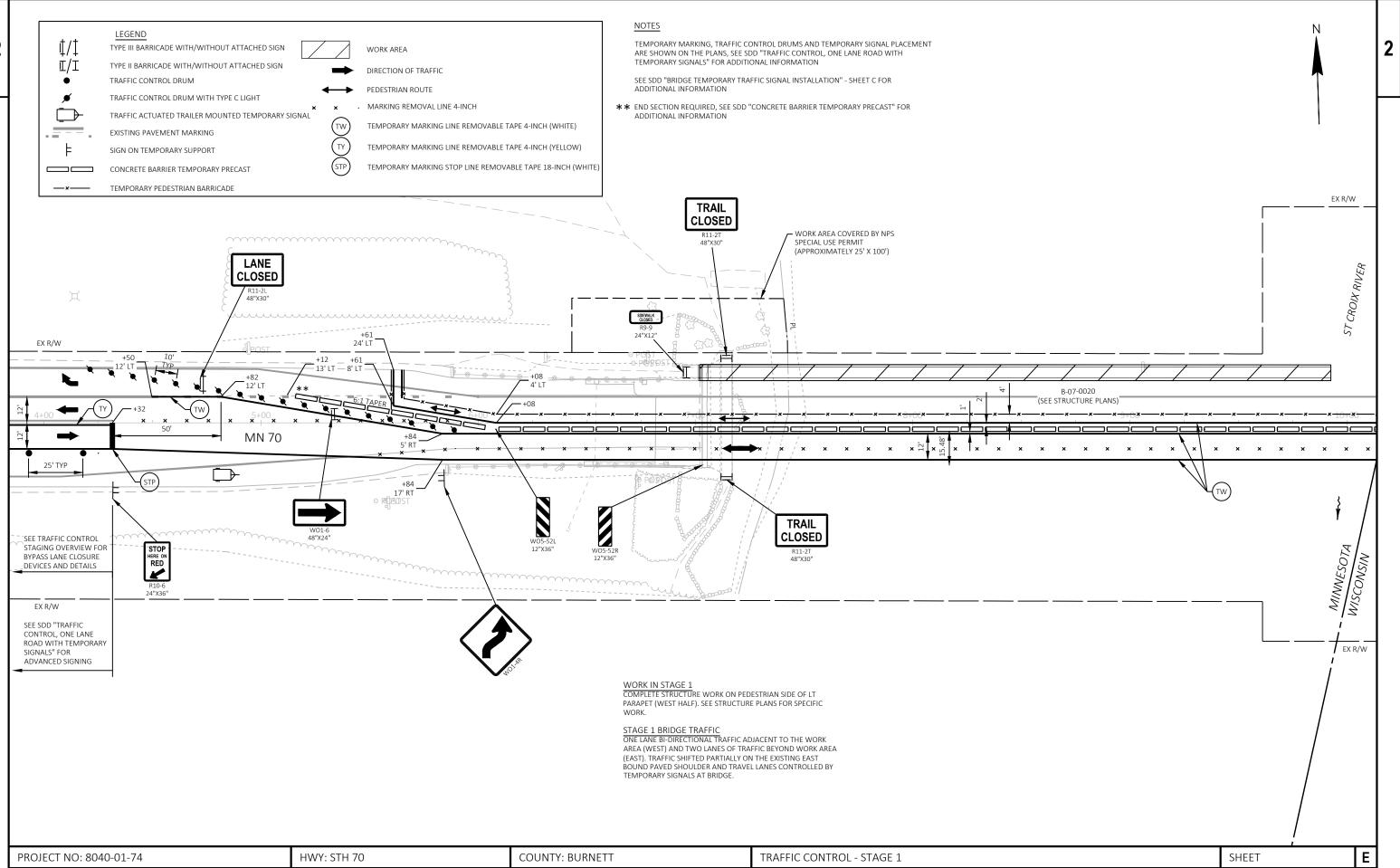


PLOT NAME :

PLOT SCALE :

1 IN:100 FT

WISDOT/CADDS SHEET 44

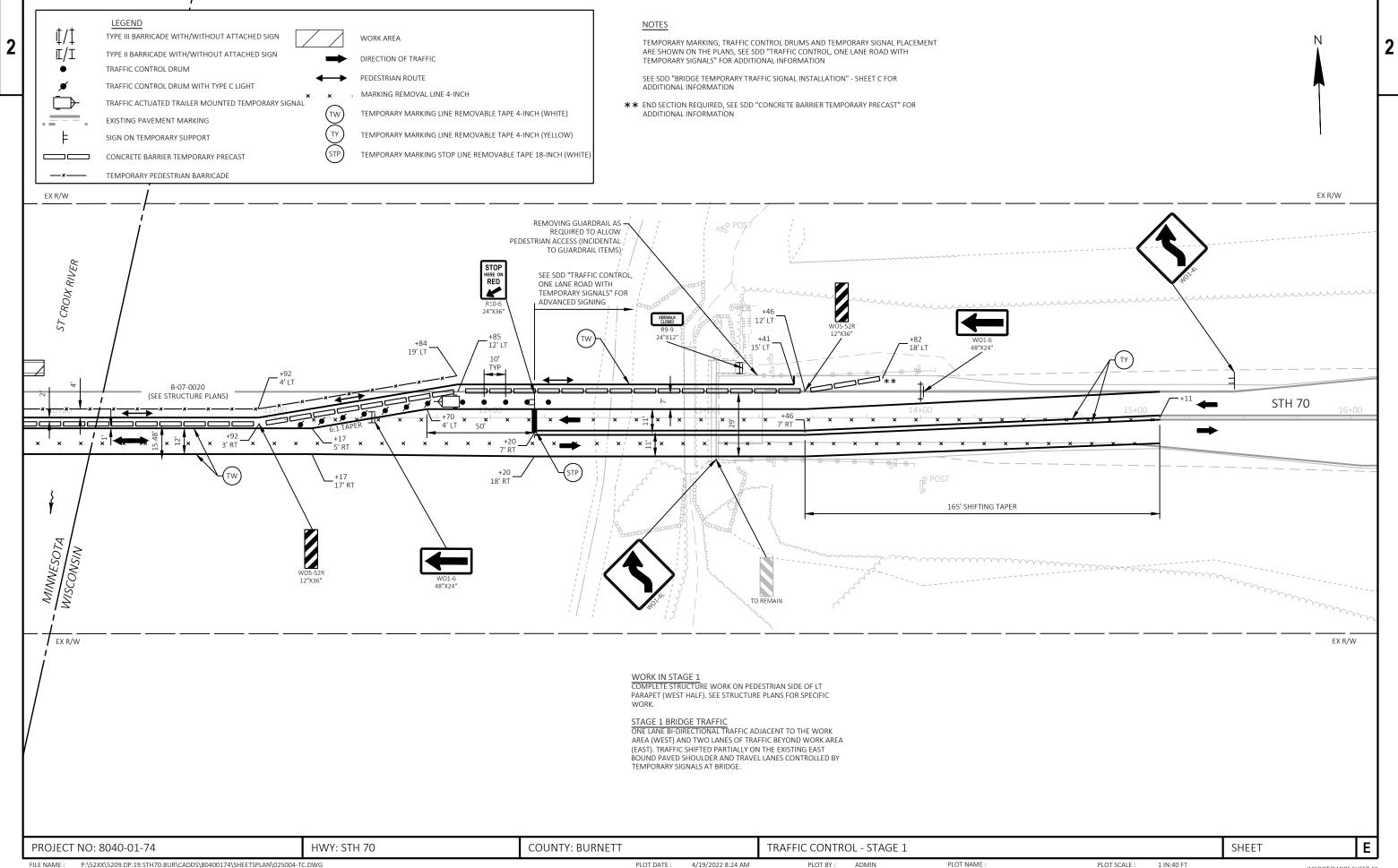


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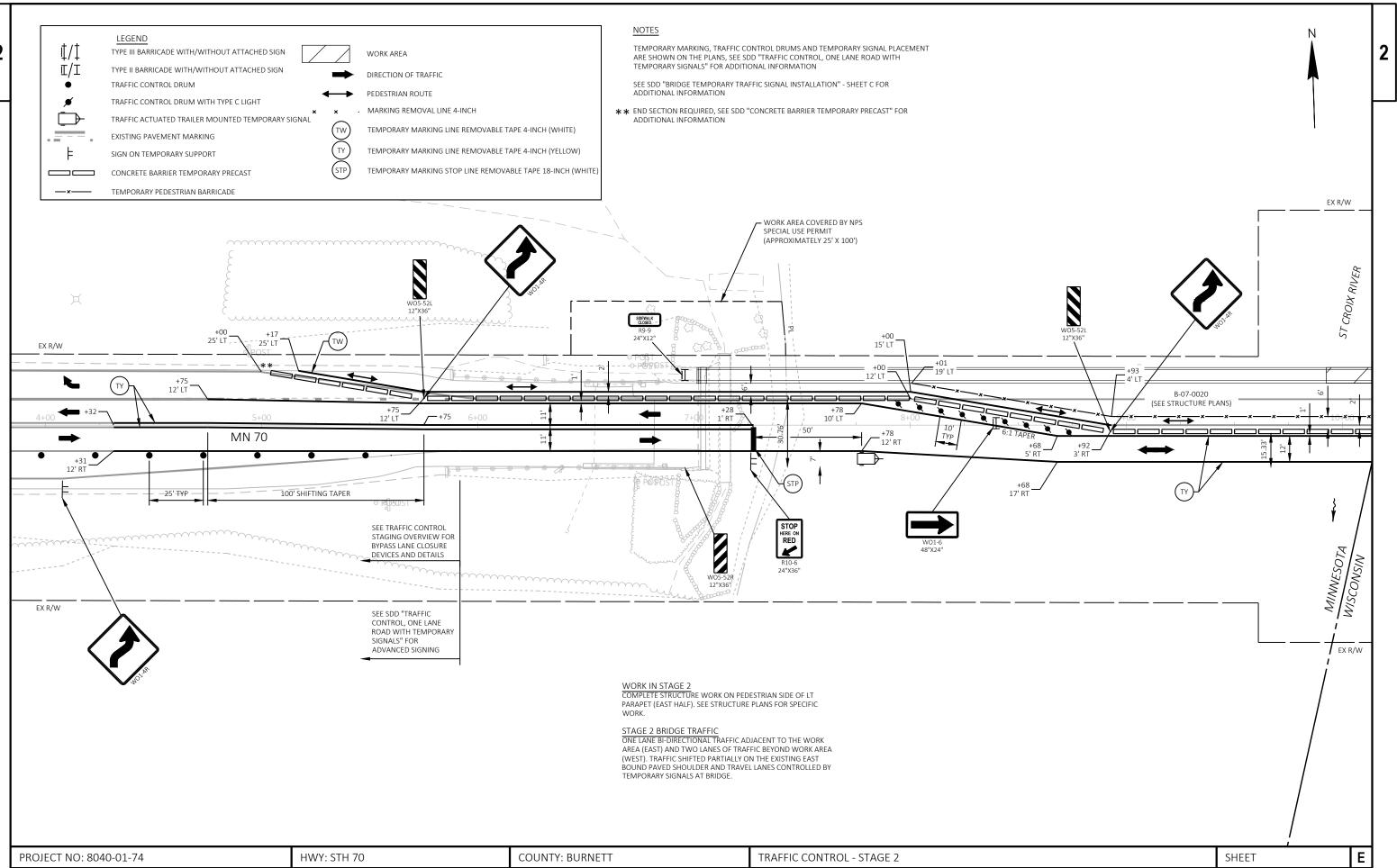
ADMIN 4/19/2022 8:24 AM PLOT BY :

PLOT NAME



PLOT DATE : 4/19/2022 8:24 AM

ADMIN



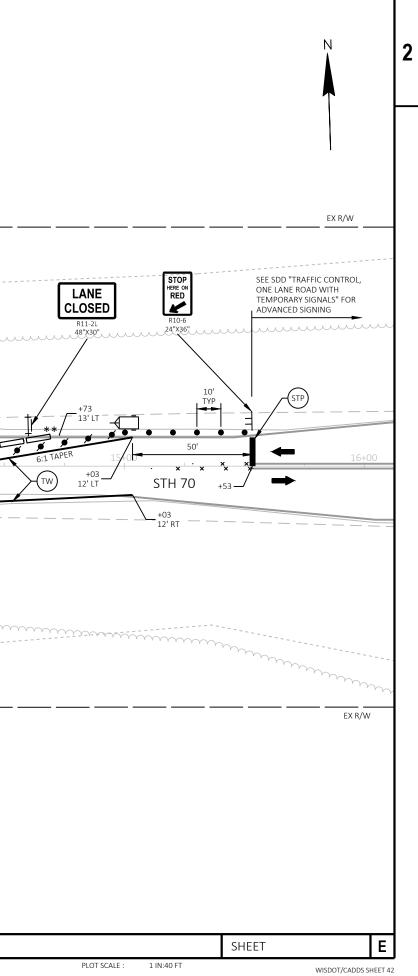
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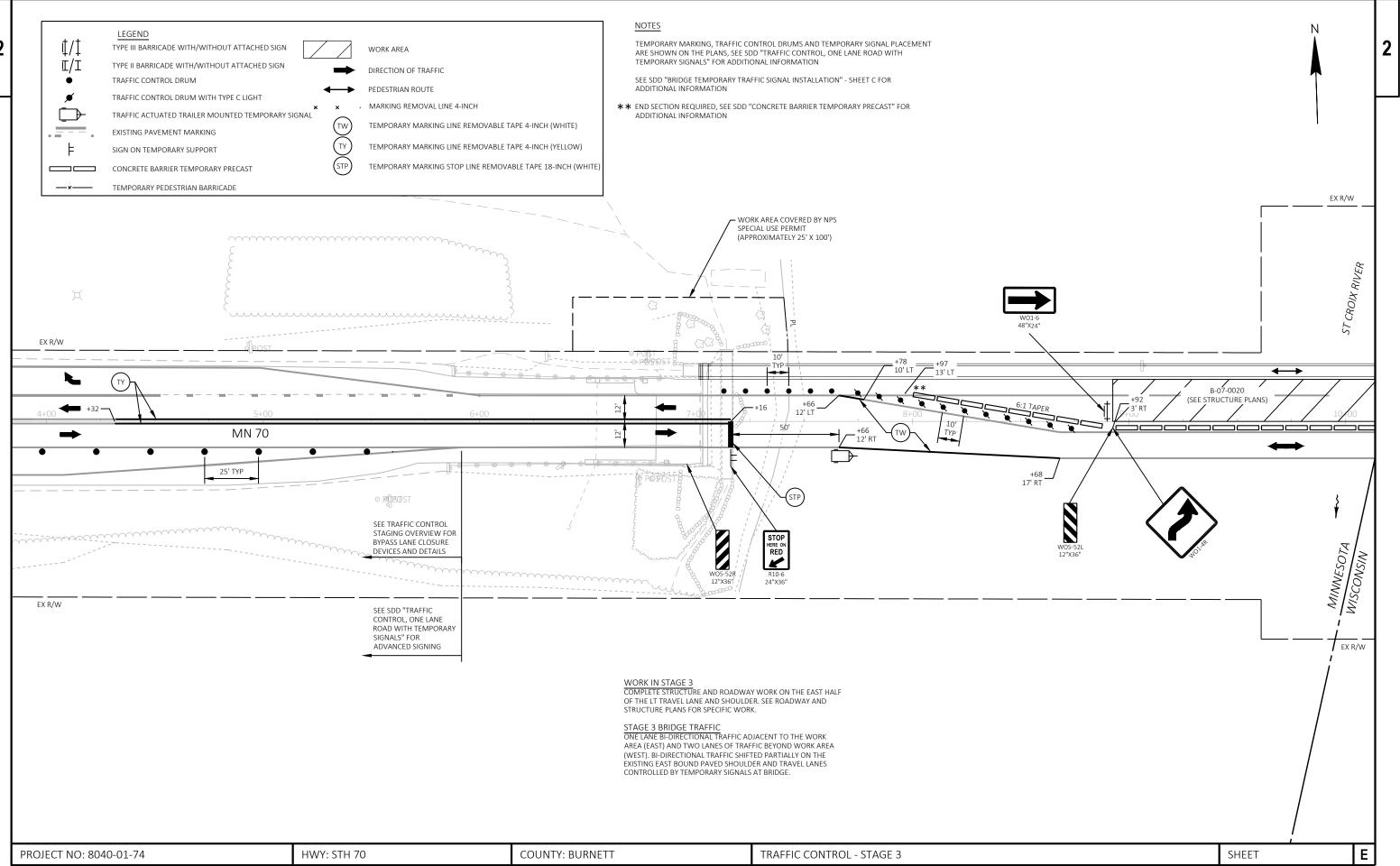
PLOT BY : ADMIN

PLOT NAME :

	¢/‡	LEGEND TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	WORK AREA	NOTES	
	ī/ī ●	TYPE II BARRICADE WITH/WITHOUT ATTACHED SIGN	DIRECTION OF TRAFFIC		ONTROL DRUMS AND TEMPORARY SIGNAL PLACEMENT DD "TRAFFIC CONTROL, ONE LANE ROAD WITH IONAL INFORMATION
	<u>×</u>	TRAFFIC CONTROL DRUM WITH TYPE C LIGHT	<ul> <li>PEDESTRIAN ROUTE</li> <li>MARKING REMOVAL LINE 4-INCH</li> </ul>	SEE SDD "BRIDGE TEMPORARY TR/ ADDITIONAL INFORMATION	AFFIC SIGNAL INSTALLATION" - SHEET C FOR
		TRAFFIC ACTUATED TRAILER MOUNTED TEMPORARY SIGNAL		INCH (WHITE) ** END SECTION REQUIRED, SEE SDD ADDITIONAL INFORMATION	"CONCRETE BARRIER TEMPORARY PRECAST" FOR
	=	SIGN ON TEMPORARY SUPPORT	TEMPORARY MARKING LINE REMOVABLE TAPE 4-	INCH (YELLOW)	
		CONCRETE BARRIER TEMPORARY PRECAST	TEMPORARY MARKING STOP LINE REMOVABLE TA	APE 18-INCH (WHITE)	
	EX R/W	TEMPORARY PEDESTRIAN BARRICADE			
	ST CROIX RIVER	B-07-0020 (SEE STRUCTURE PLANS) * * * * * * * * *		TRAIL CLOSED R11-2T 48"X30" USERWAK R9-9 247X12" 74" 19" 19" 19" 19" 19" 19" 19" 19" 19" 19	W01-6 48"X24" 19'LT 41 19'LT 441 19'LT 48"X24" 48"X24" 48"X24" 48"X24"
Ē					
	- MINNESOTA	Y		TRAIL CLOSED R11-2T 48"X30"	
	T EX R/W			WORK IN STAGE 2 COMPLETE STRUCTURE WORK ON PEI PARAPET (EAST HALF). SEE STRUCTUR WORK. STAGE 2 BRIDGE TRAFFIC ONE LANE BI-DIRECTIONAL TRAFFIC A AREA (EAST) AND TWO LANES OF TRA (WEST). TRAFFIC SHIFTED PARTIALLY BOUND PAVED SHOULDER AND TRAV TEMPORARY SIGNALS AT BRIDGE.	E PLANS FOR SPECIFIC DJACENT TO THE WORK IFFIC BEYOND WORK AREA ON THE EXISTING EAST
┢	PROJECT NO:	8040-01-74 HWY	STH 70	COUNTY: BURNETT	TRAFFIC CONTROL - STAGE 2

PLOT NAME :



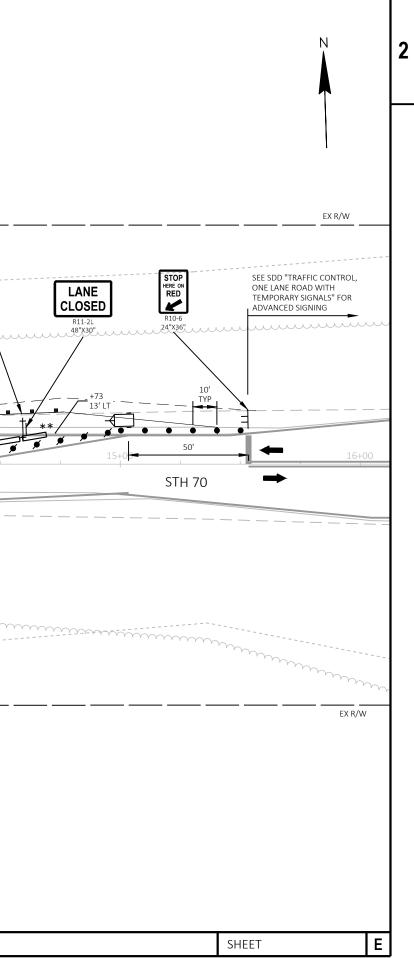


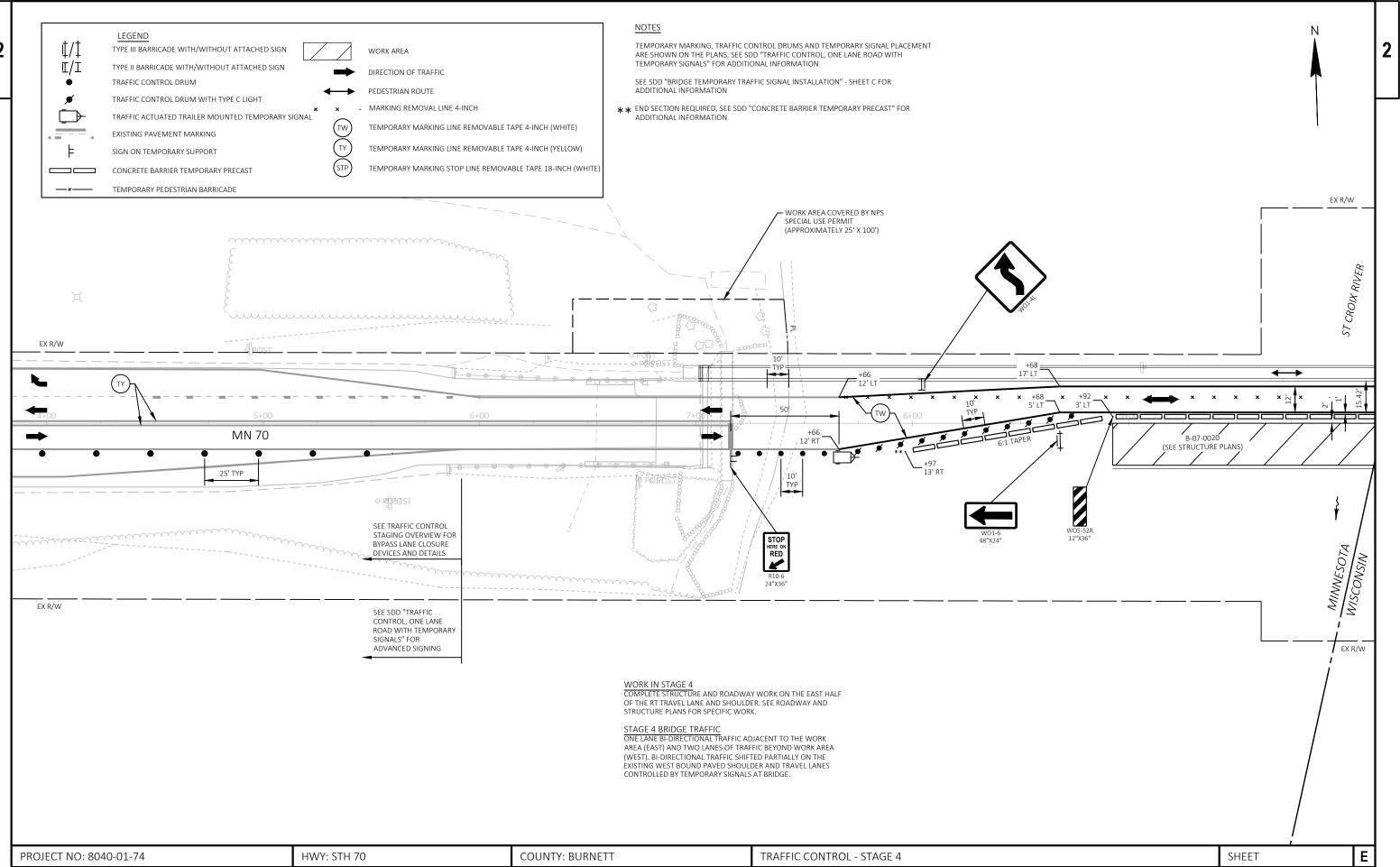
PLOT NAME

ADMIN

LEGEND TYPE III BARRICADE WITH/WITHOU I/I TYPE II BARRICADE WITH/WITHOU TRAFFIC CONTROL DRUM TRAFFIC CONTROL DRUM WITH TY TRAFFIC ACTUATED TRAILER MOUN EXISTING PAVEMENT MARKING SIGN ON TEMPORARY SUPPORT CONCRETE BARRIER TEMPORARY P TEMPORARY PEDESTRIAN BARRICA	T ATTACHED SIGN T ATTACHED SIGN T ATTACHED SIGN T ATTACHED SIGN T PE C LIGHT T T PEDESTRIAN ROUTE T MARKING REMOVAL L TW TEMPORARY MARKING TY TEMPORARY MARKING TY TEMPORARY MARKING	ARE SHOWN TEMPORARY SEE SDD "BRI ADDITIONAL INE 4-INCH ** END SECTION	MARKING, TRAFFIC CONTROL DRUMS AND TEMPORARY SIGNAL PLACEMENT ON THE PLANS, SEE SDD "TRAFFIC CONTROL, ONE LANE ROAD WITH SIGNALS" FOR ADDITIONAL INFORMATION IDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION" - SHEET C FOR INFORMATION I REQUIRED, SEE SDD "CONCRETE BARRIER TEMPORARY PRECAST" FOR INFORMATION
	-07-0020 JUCTURE PLANS) 11+90		COMPLETE WORK IN THIS AREA WHEN CONCRETE BARRIER TEMPORARY IS NOT IN PLACE WITH THE USE OF SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION" WOS-52R 12"X36" WO1-6 43"X24" 43"X24"
- MINNESOTA			+77 3'RT TO REMAIN
		OF THE LT TRAVE STRUCTURE PLAT STAGE 3 BRIDC ONE LANE BI-DIR AREA (EAST) AND (WEST). BI-DIREC EXISTING EAST BI	JCTURE AND ROADWAY WORK ON THE EAST HALF EL LANE AND SHOULDER. SEE ROADWAY AND NS FOR SPECIFIC WORK.

PLOT BY : ADMIN





PLOT NAME

PLOT SCALE :

1 IN:40 FT

WISDOT/CADDS SHEET 42

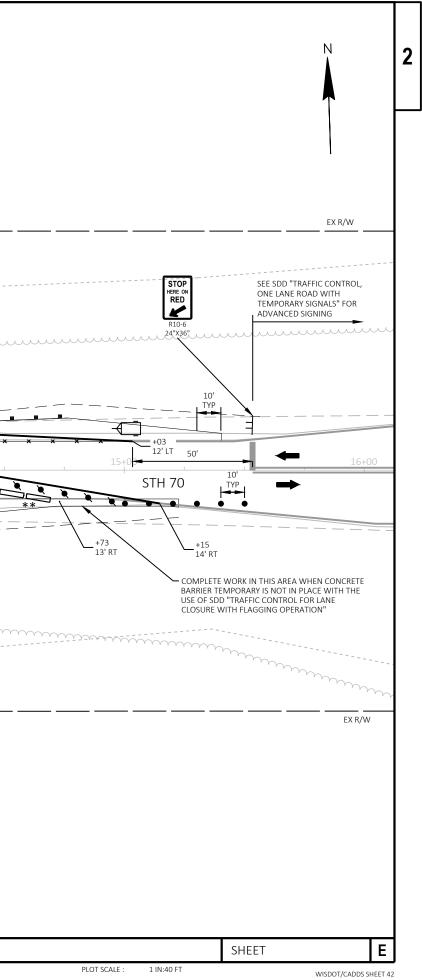
ADMIN

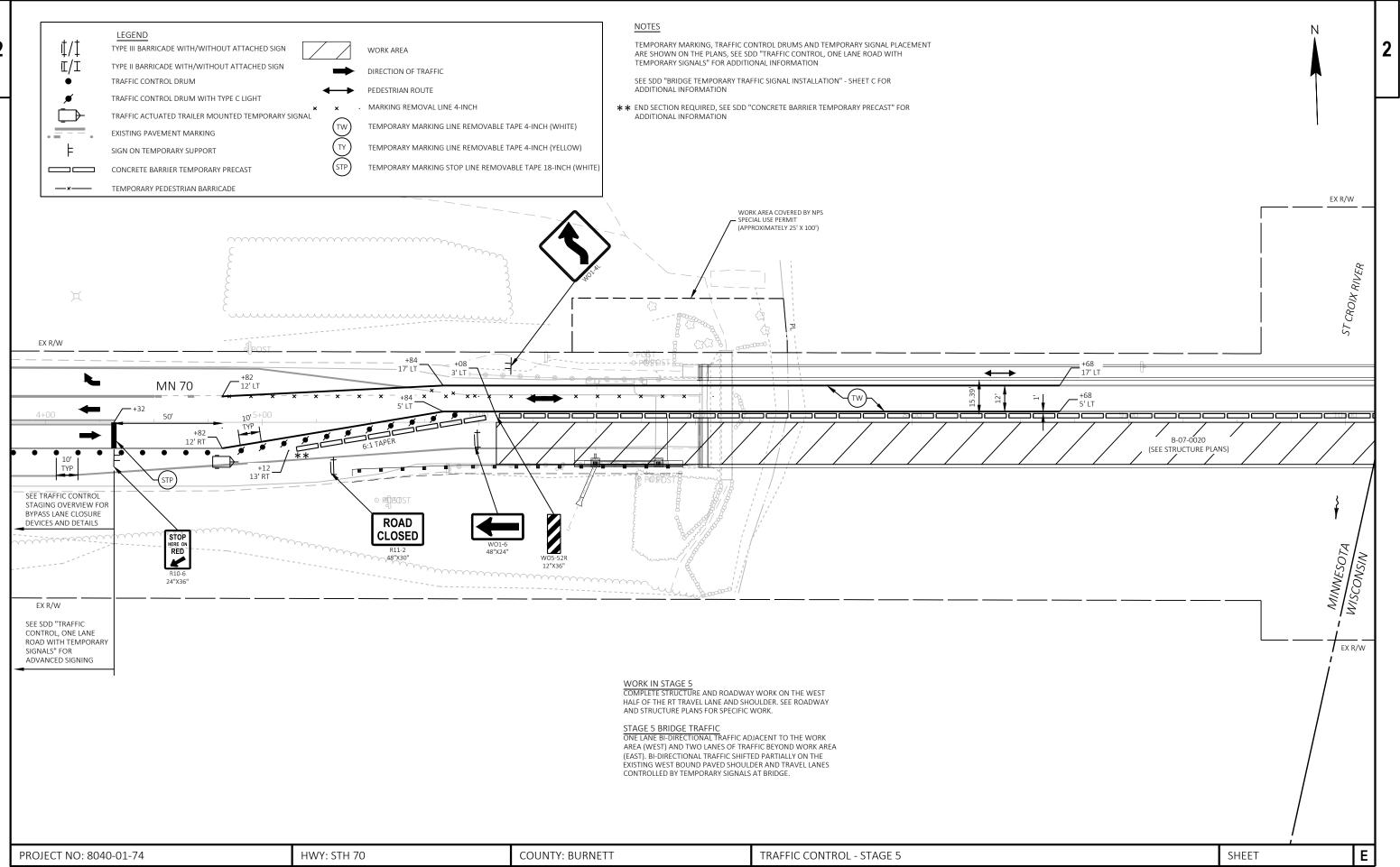
	TRAFFIC ACTUATED TRAILER MOUNTED TEMPORARY SIGNAL EXISTING PAVEMENT MARKING SIGN ON TEMPORARY SUPPORT	WORK AREA         DIRECTION OF TRAFFIC         PEDESTRIAN ROUTE         X       MARKING REMOVAL LINE 4-INCH         TW       TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)         TY       TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)         STP       TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)	
ST CROIX RIVER			₩05.521 12"X36" +01 +01 +17" LT 
- MINNESOTA	(SEE STRUCTURE PLANS)		WO1-6 48"X24"
PROJECT NO:	8040.01.74	Y: STH 70 COUNTY: E	WORK IN STAGE 4         COMPLETE STRUCTURE AND ROADWAY WORK ON THE EAST HALF         OF THE RT TRAVEL LANE AND SHOULDER. SEE ROADWAY AND         STRUCTURE PLANS FOR SPECIFIC WORK.         STAGE 4 BRIDGE TRAFFIC         ONE LANE BI-DIRECTIONAL TRAFFIC ADJACENT TO THE WORK         AREA (EAST) AND TWO LANES OF TRAFFIC BEYOND WORK AREA         (WEST). BI-DIRECTIONAL TRAFFIC SHIFTED PARTIALLY ON THE         EXISTING WEST BOUND PAVED SHOULDER AND TRAVEL LANES         CONTROLLED BY TEMPORARY SIGNALS AT BRIDGE.

FILE NAME : P:\52XX\5209.DP.19.STH70.BUR\CADDS\80400174\SHEETSPLAN\025007-TC.DWG LAYOUT NAME - 02 PLOT DATE : 4/19/2022 8:26 AM

AM PLOT BY : ADMIN

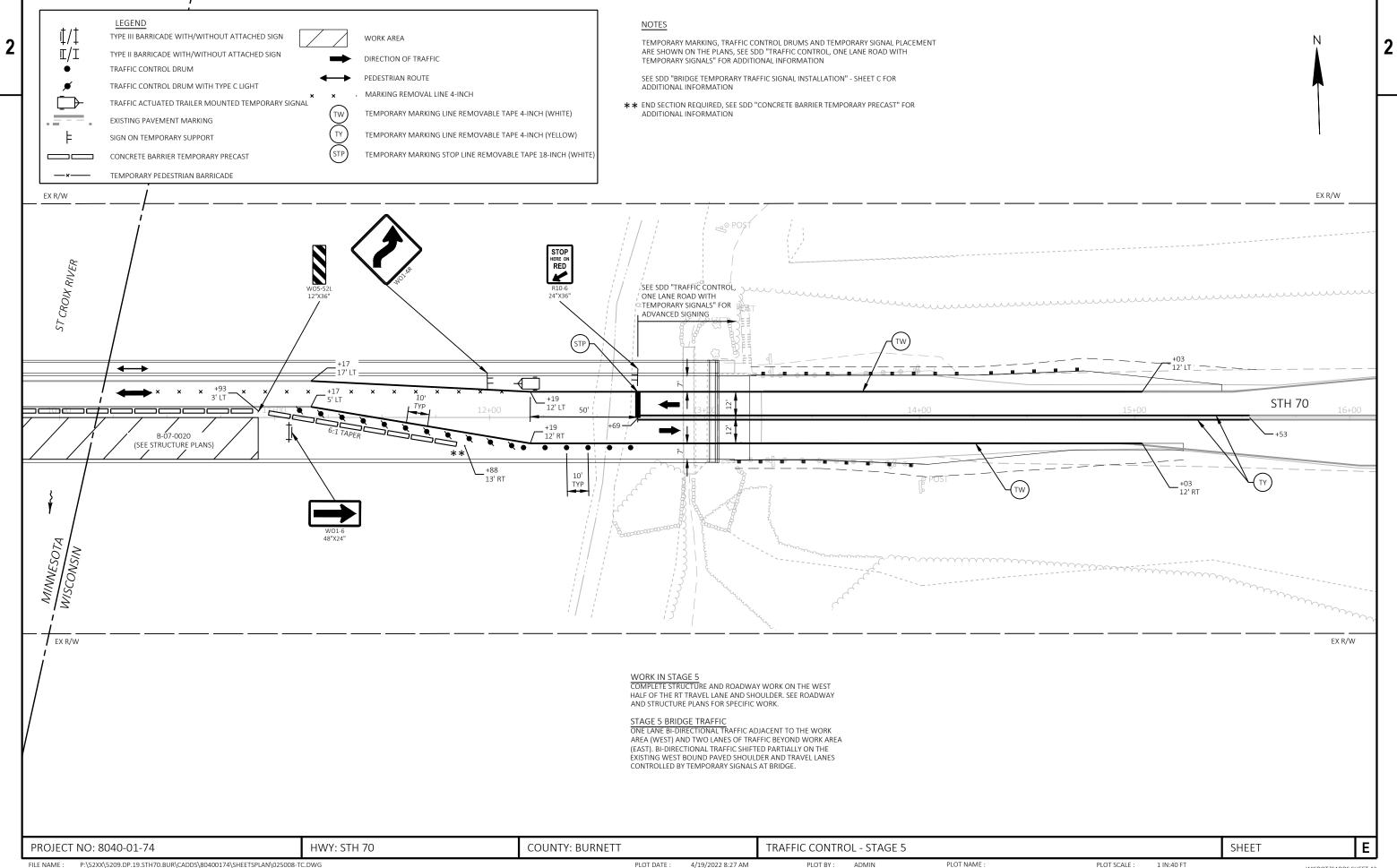
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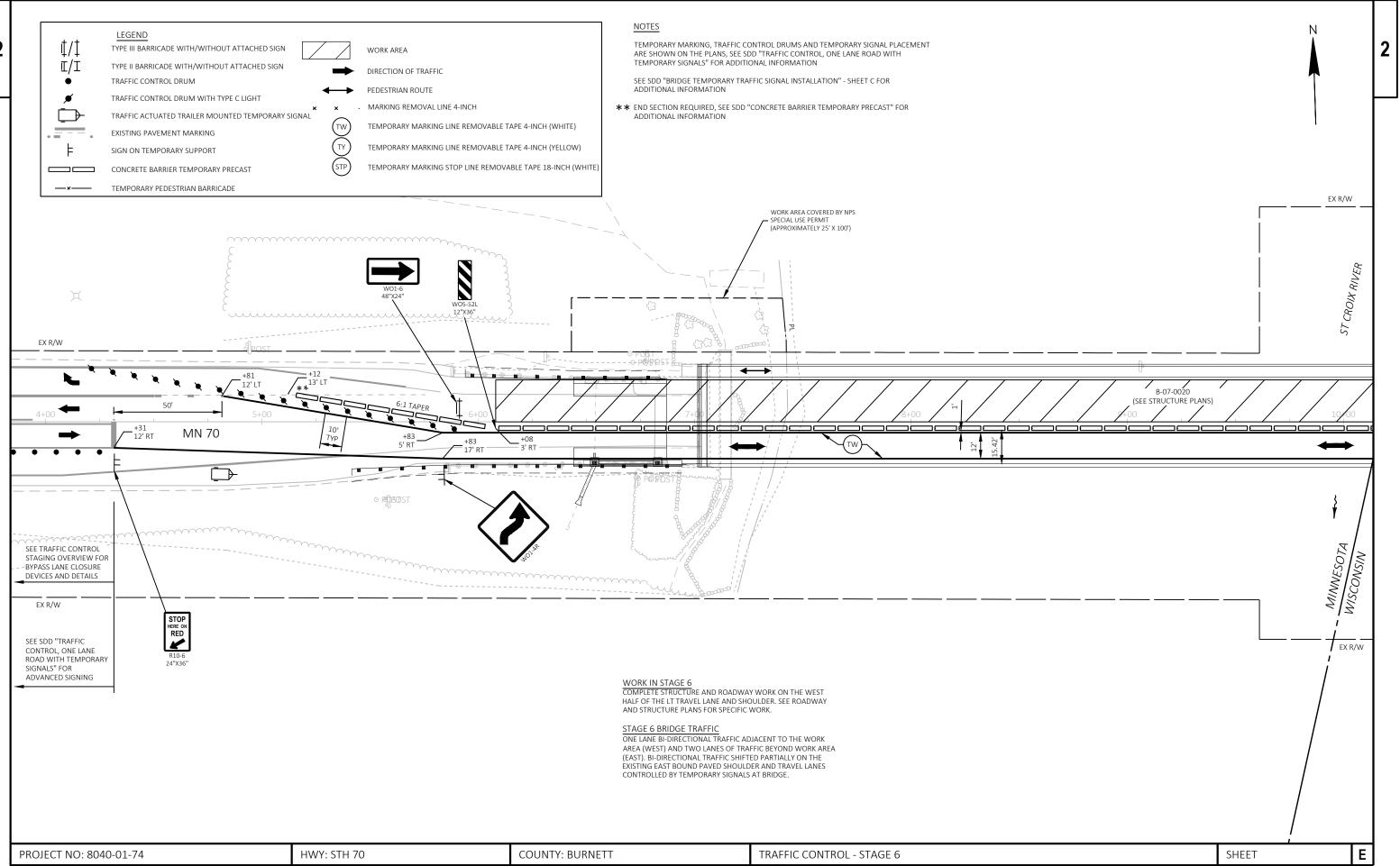


PLOT NAME

ADMIN



PLOT NAME

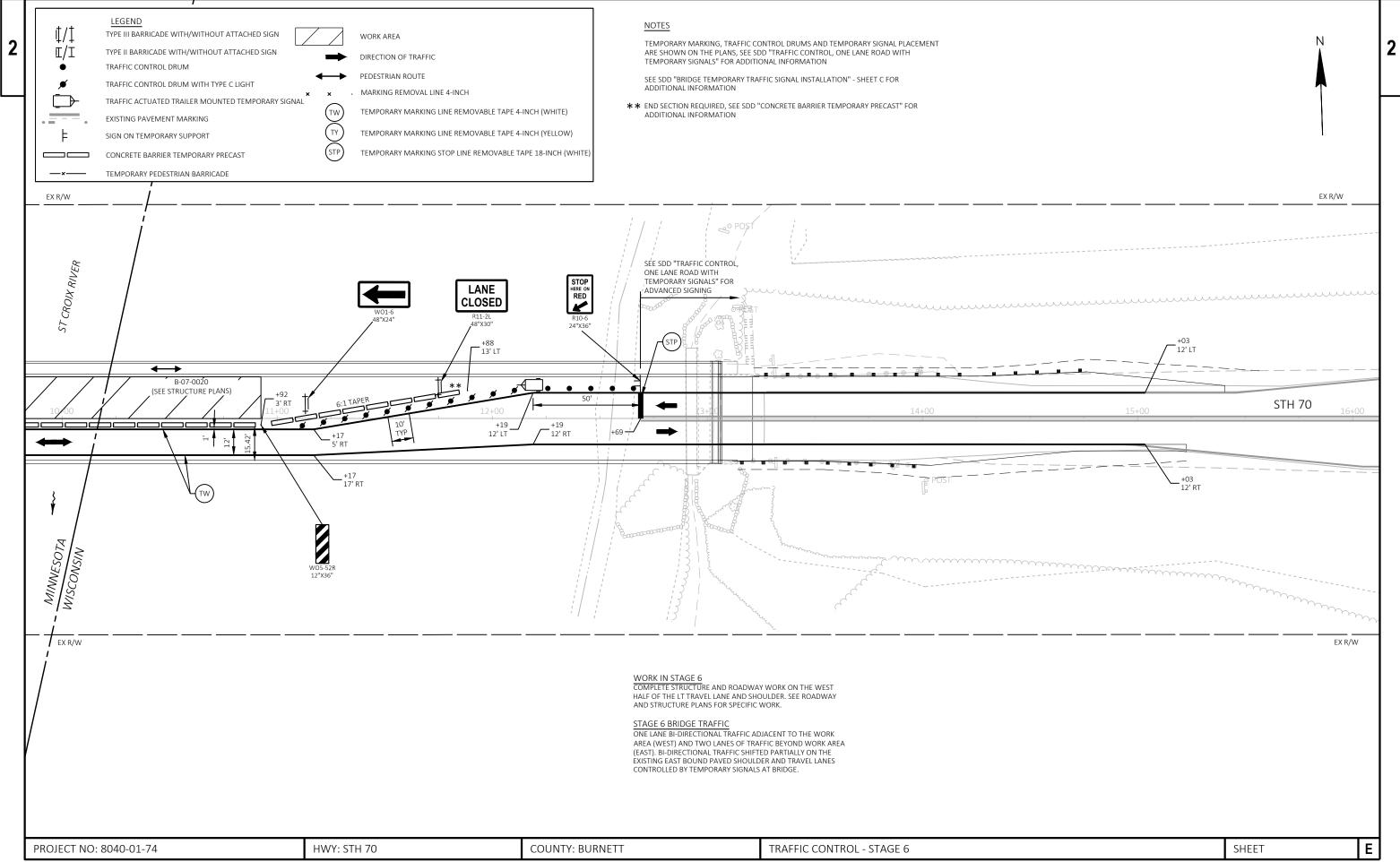


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PLOT DATE :

ADMIN 4/19/2022 8:28 AM PLOT BY :

PLOT NAME



PLOT DATE : 4/19/2022 8:28 AM

PLOT BY : ADMIN

PLOT NAME :

3

### **Estimate Of Quantities**

					8040-01-74
Line	Item	Item Description	Unit	Total	Qty
002	201.0110	Clearing	SY	25.000	25.000
004	201.0210	Grubbing	SY	25.000	25.000
0006	203.0335	Debris Containment Over Waterway (structure) 01. B-07-0020	EACH	1.000	1.000
8000	204.0100	Removing Concrete Pavement	SY	160.000	160.000
0010	204.0150	Removing Curb & Gutter	LF	55.000	55.000
0012	204.0165	Removing Guardrail	LF	380.000	380.000
0014	204.0220	Removing Inlets	EACH	2.000	2.000
0016	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	36.000	36.000
0018	204.0245	Removing Storm Sewer (size) 02. 15-Inch	LF	32.000	32.000
0020	205.0100	Excavation Common	CY	626.000	626.000
0022	213.0100	Finishing Roadway (project) 01. 8040-01-74	EACH	1.000	1.000
0024	305.0110	Base Aggregate Dense 3/4-Inch	TON	175.000	175.000
0026	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	925.000	925.000
0028	415.0070	Concrete Pavement 7-Inch	SY	50.000	50.000
0030	415.0410	Concrete Pavement Approach Slab	SY	80.000	80.000
0032	455.0605	Tack Coat	GAL	30.000	30.000
0032	465.0105	Asphaltic Surface	TON	180.000	180.000
0036	502.3101	Expansion Device 01. B-07-0020	LF	96.000	96.000
0038	502.3200	Protective Surface Treatment	SY	2,621.000	2,621.000
0030	502.3205	Pigmented Surface Sealer Reseal	SY	679.000	679.000
0040	502.3205	Protective Surface Treatment Reseal	SY	767.000	767.000
0042	502.3215	Adhesive Anchors No. 5 Bar	EACH	96.000	96.000
0044	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	3,360.000	3,360.000
	509.0301	Preparation Decks Type 1	SY	151.000	151.000
0048 0050	509.0301	Preparation Decks Type 2	SY	31.000	31.000
			LF		
0052	509.0310.S	Sawing Pavement Deck Preparation Areas	SY	68.000	68.000
0054	509.0500	Cleaning Decks	SY	2,607.000 42.000	2,607.000
0056	509.1000	Joint Repair			42.000
0058	509.1500	Concrete Surface Repair	SF	304.000	304.000
0060	509.2000	Full-Depth Deck Repair	SY	16.000	16.000
0062	509.2100.S	Concrete Masonry Deck Repair	CY	15.000	15.000
0064	509.2500	Concrete Masonry Overlay Decks	CY	157.000	157.000
0066	520.8000	Concrete Collars for Pipe	EACH	1.000	1.000
0068	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	1.000	1.000
0070	601.0588	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT	LF	86.000	86.000
0072	601.0590	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBTT	LF	7.000	7.000
0074	603.8000	Concrete Barrier Temporary Precast Delivered	LF	1,660.000	1,660.000
0076	603.8125	Concrete Barrier Temporary Precast Installed	LF	3,515.000	3,515.000
0078	606.0200	Riprap Medium	CY	7.000	7.000
0080	606.0300	Riprap Heavy	CY	46.000	46.000
0082	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	33.000	33.000
0084	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	16.000	16.000
0086	611.2033	Manholes 3x3-FT	EACH	2.000	2.000
8800	611.8115	Adjusting Inlet Covers	EACH	2.000	2.000
0090	611.9710	Salvaged Inlet Covers	EACH	2.000	2.000
0092	614.2300	MGS Guardrail 3	LF	125.000	125.000
0094	614.2500	MGS Thrie Beam Transition	LF	157.600	157.600
0096	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
0098	616.0405	Fence Chain Link Salvaged 5-FT	LF	8.000	8.000

# 06/10/2022 14:25:54 Page 1 3

3

### **Estimate Of Quantities**

					8040-01-74	
Line	Item	Item Description	Unit	Total	Qty	
100	618.0100	Maintenance And Repair of Haul Roads (project) 01. 8040-01-74	EACH	1.000	1.000	
102	619.1000	Mobilization	EACH	1.000	1.000	
104	624.0100	Water	MGAL	10.000	10.000	
106	625.0500	Salvaged Topsoil	SY	840.000	840.000	
0108	628.1104	Erosion Bales	EACH	50.000	50.000	
0110	628.1504	Silt Fence	LF	1,270.000	1,270.000	
)112	628.1520	Silt Fence Maintenance	LF	1,270.000	1,270.000	
0114	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000	
0116	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0118	628.2008	Erosion Mat Urban Class I Type B	SY	840.000	840.000	
0120	628.2023	Erosion Mat Class II Type B	SY	55.000	55.000	
)122	628.7005	Inlet Protection Type A	EACH	2.000	2.000	
)124	628.7020	Inlet Protection Type D	EACH	4.000	4.000	
)126	629.0210	Fertilizer Type B	CWT	0.600	0.600	
)128	630.0170	Seeding Mixture No. 70	LB	5.000	5.000	
0130	630.0500	Seed Water	MGAL	20.000	20.000	
)132	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	1.000	1.000	
)134	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	1.000	1.000	
)136	637.2210	Signs Type II Reflective H	SF	32.000	32.000	
)138	638.2102	Moving Signs Type II	EACH	7.000	7.000	
)140	638.2602	Removing Signs Type II	EACH	1.000	1.000	
)142	638.3000	Removing Small Sign Supports	EACH	1.000	1.000	
)144	638.4000	Moving Small Sign Supports	EACH	8.000	8.000	
)146	642.5001	Field Office Type B	EACH	1.000	1.000	
)148	643.0300	Traffic Control Drums	DAY	7,325.000	7,325.000	
)140	643.0410	Traffic Control Barricades Type II	DAT	84.000	84.000	
)152	643.0420	Traffic Control Barricades Type III	DAT	736.000	736.000	
)152	643.0420	Traffic Control Warning Lights Type A	DAT	1,472.000	1,472.000	
)156	643.0705	Traffic Control Warning Lights Type C	DAT	3,340.000	3,340.000	
0158	643.0900	Traffic Control Signs	DAY EACH	15,000.000	15,000.000	
0160	643.0920	Traffic Control Covering Signs Type II		1.000	1.000	
)162	643.1050	Traffic Control Signs PCMS Traffic Control	DAY	14.000	14.000	
0164	643.5000		EACH	1.000	1.000	
0166	644.1810	Temporary Pedestrian Barricade	LF	1,235.000	1,235.000	
)168	645.0120	Geotextile Type HR	SY	22.000	22.000	
0170	646.1020	Marking Line Epoxy 4-Inch	LF	3,600.000	3,600.000	
)172	646.9000	Marking Removal Line 4-Inch	LF	2,420.000	2,420.000	
)174	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	13,620.000	13,620.000	
0176	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	84.000	84.000	
)178	650.4000	Construction Staking Storm Sewer	EACH	2.000	2.000	
0180	650.4500	Construction Staking Subgrade	LF	412.000	412.000	
182	650.5000	Construction Staking Base	LF	356.000	356.000	
)184	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	86.000	86.000	
)186	650.6500	Construction Staking Structure Layout (structure) 01. B-07-0020	LS	1.000	1.000	
)188	650.7000	Construction Staking Concrete Pavement	LF	30.000	30.000	
190	650.9910	Construction Staking Supplemental Control (project) 01. 8040-01-74	LS	1.000	1.000	
192	650.9920	Construction Staking Slope Stakes	LF	412.000	412.000	
194	661.0100	Temporary Traffic Signals for Bridges (structure) 01. B-07-0020	LS	1.000	1.000	
)196	690.0150	Sawing Asphalt	LF	600.000	600.000	

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3					Estimate Of C	Quantities	
						8040-01-74	
	Line	Item	Item Description	Unit	Total	Qty	
	0198	690.0250	Sawing Concrete	LF	40.000	40.000	
	0200	715.0502	Incentive Strength Concrete Structures	DOL	1,032.000	1,032.000	
	0202	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	500.000	500.000	
	0204	SPV.0060	Special 01. Moving Delineators and Markers	EACH	2.000	2.000	
	0206	SPV.0090	Special 01. Concrete Curb & Gutter Cure and Seal Treatment	LF	93.000	93.000	
	0208	SPV.0090	Special 02. Flashing Stainless Steel	LF	605.000	605.000	
	0210	SPV.0180	Special 01. Topsoil Over Existing Riprap	SY	55.000	55.000	
	0212	SPV.0180	Special 02. Abutment Seat Cleaning and Sealing	SY	24.000	24.000	

### 06/10/2022 14:25:54 Page 3

3	CLEARING AND GRUBBING ITEMS201.0110201.0210CLEARINGGRUBBINGSTAGESTATIONOFFSETSTAGESTATIONOFFSETSTAGESTATIONSTATION56+82RT25TOTALS2525	REMOVAL ITEMS         204.0100       204.0150         REMOVING       REMOVING         CONCRETE       CURB &         PAVEMENT       GUTTER         3       13+06       -         4       13+06       -         5       6+49       -         6       6+49       -         160       55	DRAINAGE REMOVAL ITEMS         204.0220       204.0245.01       204.0245.02         REMOVING       REMOVING         REMOVING       STORM SEWER         STAGE       STATION       TO       STATION       OFFSET       EACH       LF       LF         5       6+54       -       6+86       RT       2       36       32         TOTALS       2       36       32
		EARTHWORK SUMMARY	

	DIVISION	LOCATION	ITEM 205.0100 EXCAVATION COMMON (CY) (NOTE 1)	SALVAGED / UNUSEABLE PAVEMENT MATERIAL (CY) (NOTE 2)	AVAILABLE MATERIAL (CY) (NOTE 3)	UNEXPANDED FILL (CY)	EXPANDED FILL (CY) (NOTE 4)	MASS ORDINATE +/- (CY) (NOTE 5)
ſ							FACTOR	
	STH 70						1.25	
[								
ſ	1	STA 13+06 - STA 15+57 LT (STAGE 3)	221	21	200			200
	2	STA 13+06 - STA 15+23 RT (STAGE 4)	169	20	149	18	24	125
	3	STA 5+41 - STA 7+00 RT (STAGE 5)	142	15	127			127
	4	STA 5+94 - STA 7+00 LT (STAGE 6)	94	14	80			80
[								
[	TOTALS		626	70	556	18	24	532

1) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT 2) SALVAGED/UNUSABLE PAVEMENT MATERIAL = (AREA OF PROJECT PAVEMENT REMOVAL) \* (TYPICAL DEPTH) 3) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL 4) EXPANDED FILL FACTOR = (UNEXPANDED FILL) \* (FILL FACTOR) 5) MASS ORDINATE = AVAILABLE MATERIAL - (EXPANDED FILL); POSITIVE INDICATES AN EXCESS OF MATERIAL

ECT NO: 8040-01-74		HWY: STH 70	COUNTY: BURNETT		MISCELLANEOUS QUANTITIES						SHEET
*ADDITIONAL QUANTITIES SHOWN ELSEWHERE			*ADDITIONAL QUANTITIES SHOWN ELSEWH	ERE		*AE	DDITIONAL QUAN	TITIES SHOWN E	LSEWHERE		
TOTALS	175	830	TOTALS	35	50	TOT	ΓALS			60	80
3 13+06 - 15+57 LT 4 13+06 - 15+23 RT 5 5+41 - 7+02 RT 6 5+94 - 7+02 LT	61 58 42 14	288 243 191 108	3 13+06 - 13+21 LT 4 13+06 - 13+21 RT 5 6+87 - 7+02 RT 6 6+87 - 7+02 LT	9 9 9 9	12 13 12 13		3 13+06 4 13+06 5 6+87 6 6+87	- 13+21 - 13+21 - 7+02 - 7+02	LT RT RT LT	15 15 15 15	20 20 20 20
BASE AGGREC	GATE ITEMS 305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120* BASE AGGREGATE DENSE 1 1/4-INCH TON	CONCRETE PA	AVEMENT ITEMS 305.0120* BASE AGGREGAT DENSE 1 1/4-INC T TON		_ <u></u> ST	<u>C</u> AGE STATION			APPROACH SLAB 305.0120* BASE AGGREGATE DENSE 1 1/4-INCH TON	415.0410 CONCRETE PAVEMEN APPROACH SLAB SY

LAYOUT NAME - 01

CONCRETE	PAVEMENT	APPROACH	SLAB ITEMS

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3	4 13+06 - 15+23 5 5+41 - 7+02	455.0605 TACK COAT	465.0105 ASPHALTIC SURFACE TON 74 56 25 25 180		5 6+44	<u>TO STATION</u> - 6+94 - 6+87	601. CONCRET GUTTER 4-II 36-INCH OFFSET L RT 4 LT 4	TE CURB & .0588 TE CURB & NCH SLOPED TYPE TBT LF 43 43 86	601.0590 CONCRETE CURB & CC	SPV.0090.01 NCRETE CURB & TER CURE AND SEAL TREATMENT LF 50 43 93			<u>RIPRAP I</u> STATION OFFSET 6+42 RT	606.0200 RIPRAP 0	645.0120 GEOTEXTILE TYPE HR SY 22 22 22	
<u>STAGE STATION TO</u> 5 6+54 - 6 6+54 6 6+76 TOTALS	COLLARS CU FOR PIPE STATION OFFSET EACH	522.1018 APRON ENDWALLS FO JLVERT PIPE REINFOR CONCRETE 18-INCH EACH 1   1	DR STORM SEWER PIPE STORM CED REINFORCED CONCRETE REINFORC CLASS III 12-INCH CLASS LF 33  	SEWER PIPE ED CONCRETE M. II 18-INCH	IANHOLES ADJ 3X3-FT INLET EACH E 2  	USTING SALV. COVERS INLET C ACH EA 21 1 1	9710 650.400 CONSTRUC AGED STAKING SI COVERS SEWER CCH EACH 2 2 2  2 2 2 2	CTION TORM R <del>I</del>	<u>STAGE STATION TO STATIO</u> 3 13+21 - 15+5: 4 13+14 - 15+22 5 5+41 - 6+94 6 5+81 - 7+12 <u>UNDISTRIBUTED</u> TOTALS	3 LT 20 2 RT 24 - RT 17			628.2023 N EROSION MAT CLASS II TYPE B SY   45 10 55		630.0170 SEEDING MIXTURE NO. 70 LB 1 1 1 1 1 5	630.0500 SEED WATER MGAL 5 5 4 2 2 4 20
3 13 4 13 5 5	E	28.1104 628.1504 ROSION BALES SILT FENC	4 628.1520 SILT FENCE 26 MAINTENANCE LF 300 270 270 180 250 1,270		-	<u>IN</u> <u>STATION OFFSE</u> 6+54 RT 6+54 RT 6+54 LT 6+76 LT TOTALS	LET PROTECTION 628.7005 INLET PROTECTION TYPE A T EACH 1 1   2	628.7020 INLET				628 MOBIL EROSION LOCATION E. PROJECT	MOBI IZATIONS EME CONTROL EROSIO ACH	28.1910 ILIZATIONS ERGENCY		
PROJECT NO: 804 FILE NAME : P:\52XX\52(	D-01-74 9.DP.19.STH70.BUR\CADDS\80400174\S		HWY: STH 70		COUNTY: B		OT DATE : 4/20/20.	022 8:20 AM	MISCELLANEOUS QUANT		DT NAME :	PLOT SC.	ALE : 1" = 1'	SH	IEET	E WISDOT/CADDS SHEET

RIP	RAP	ITEN	٩S

STACE	STATION	OFFSET	606.0200 RIPRAP MEDIUM	645.0120 GEOTEXTILE TYPE HR SY
STAGE	STATION	OFFSET	LΥ	SY
5	6+42	RT	7	22
TOTALS			7	22

TEMPORARY TRAFFIC SIGNALS FOR BRIDGES         661.0100.01         TEMPORARY TRAFFIC SIGNALS         FOR BRIDGES (B-07-0020)         LOCATION       LS         PROJECT       1         TOTAL       1	643.0300 643.0410 643.	TRAFFIC CONTROL TRAFFIC CONTROL CONTROL WARNING LIGHTS WARNING LIGHTS TRAFFIC CONTROL TRAFFIC CONTROL ES TYPE IIITYPE ATYPE CSIGNSSIGNS PCMS
TEMPORARY PAVEMENT MARKING ITEMS         646.9000       649.0150       649.0850         TEMPORARY MARKING LINE       TEMPORARY MARKING LINE         MARKING       TEMPORARY MARKING LINE         MARKING       TEMPORARY MARKING LINE         REMOVABLE TAPE 4-INCH       MARKING STOP LINE         STAGE       LF       LF       LF       LF       LF         1       1,680       1,730       2,880       24       2         3        570       120       12       -         4       410        1,490        -         5       180       570       2,030       24       -         5       180       570       2,030       24       -         6        -       2,100        -         13,620       13,620       13,620       -       -	CONCRETE BARRIER TEMPORARY PRECAST ITEMS603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED603.8125 CONCRETE BARRIER TEMPORARY PRECAST DELIVEREDSTAGECONCRETE BARRIER 	TEMPORARY PEDESTRIAN         BARRICADE         644.1810         STAGE         1       660         2       575         TOTAL       1,235
TRAFFIC CONTROL COVERING SIGNS TYPE II         NUMBER       643.0920       comments         0+15       RT       1       1       "BYPASS LANE" SIGN COVERED FOR DURATION OF WORK         TOTAL       1       1       1       1	MARKING ITEMS         646.1020         MARKING LINE EPOXY 4-INCH         12.5' LINE       3' LINE         37.5' SKIP       SOLID       9' SKIP         STATION       TO       STATION       OFFSET         4+25       -       15+50        300       770          3+82       -       16+75       LT         3.00       1,300         4+07       -       16+05       RT          1,200         TOTAL       300       770       30       2,500        3,600	GUARDRAIL ITEMS           204.0165         614.2300         614.2500         614.2610           REMOVING         MGS         MGS         THRE BEAM         MGS GUARDRAIL           STAGE         STATION         TO         STATION         OFFSET         LF         LF         EACH           3         13+21         14+77         LT         86         62.5         39.4         1           4         13+11         14+04         RT         86          39.4         1           5         5+41         6+97         RT         110         62.5         39.4         1           6         5+94         6+87         LT         98          39.4         1           TOTALS         380         125         157.6         4         4
PROJECT NO: 8040-01-74 HWY: STH 70 FILE NAME : P:\52XX\5209.DP.19.STH70.BUR\CADDS\80400174\SHEETSPLAN\030201-MQ.DWG	COUNTY: BURNETT MISCELLANEOUS QUANTITIES	PLOT NAME :         PLOT SCALE :         1" = 1'         WISDOT/CADDS SHEET 42

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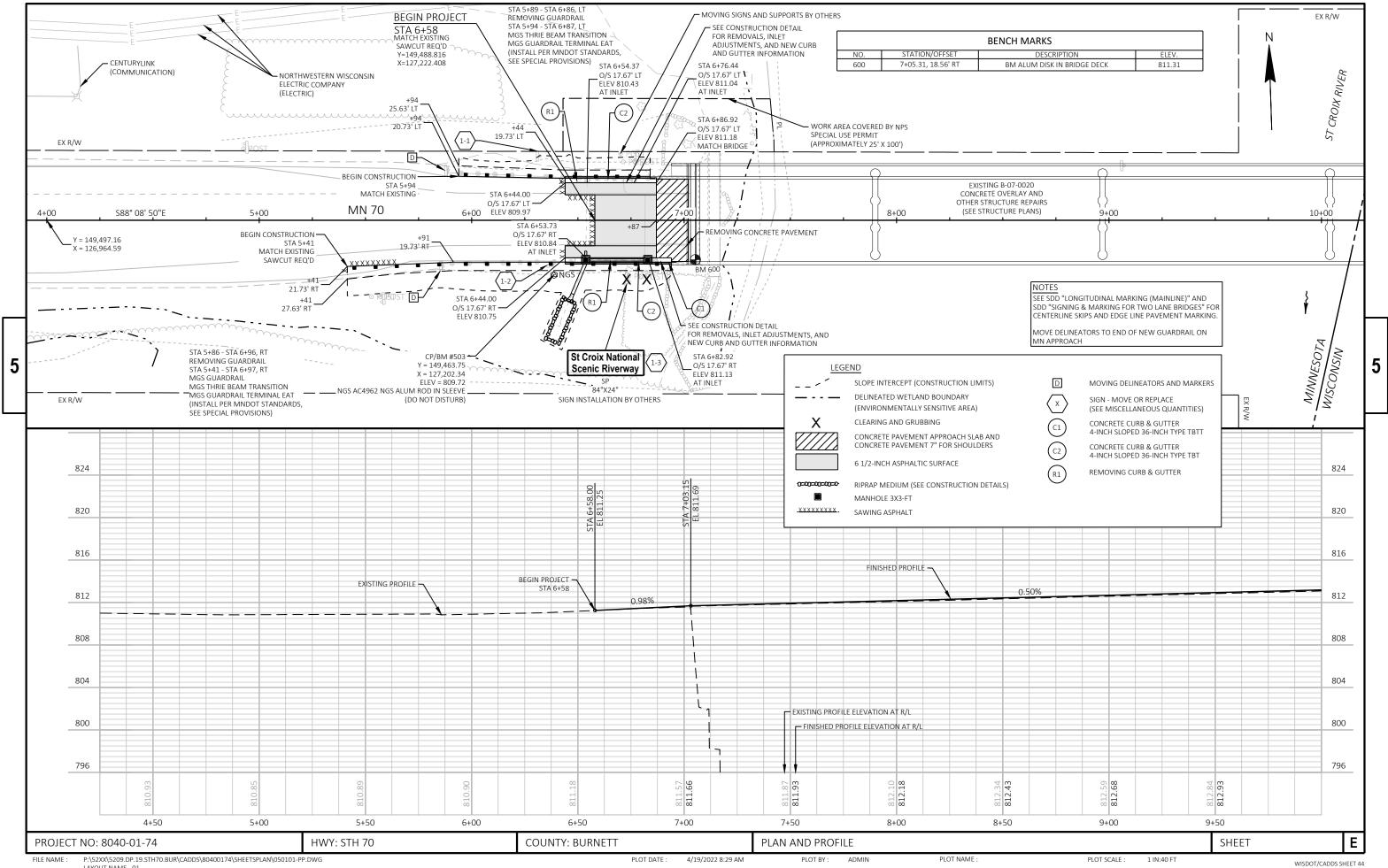
	WATER 624.0100 LOCATION MGAL	<u>STAGE</u> 3 3	2-1 ST CROIX NATION 2-2 BRIDGE	IAL SCENIC RIVERWAY HASH MARKS	SIGN DIMENSION W X H I CODE IN X IN SP 84 X 24 X	16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X	637.2210 SIGNS TYPE II REFLECTIVE H SF 16.00 		638.2602 REMOVING SIGNS TYPE II EACH 1 	638.3000 REMOVING SMALL SIGN SUPPORTS EACH 1	638.4000 MOVING SMALL SIGN SUPPORTS EACH  1	COMMENTS
	PROJECT 10	<u> </u>	2-3 BRIDGE	ING ANY TIME HASH MARKS ING ANY TIME	X X X				1 1 1			1 1 1	
3	TOTAL 10	<u>4</u> 5	2-5 WELCOME	TO WISCONSIN	X X				1			2	
		<u>5</u>			<u>SP 84 X 24</u> X			16.00					INSTALLED BY MNDOT
		TOTALS				1	1	32.00	7	1	1	8	
				ON STAKING ITEMS									
	650.4500 CONSTRUCTION STAKING SUBGRADE <u>STAGE STATION TO STATION OFFSET LF</u>		650.5500 DNSTRUCTION STAKING CURB UTTER AND CURB & GUTTER LF	650.6500.01 CONSTRUCTION STAKING STRUCTURE LAYOUT (B-07-00 LS		N STAKING AVEMENT SUPP	650.9910.0 CONSTRUCTION S PLEMENTAL CONTRO LS	STAKING	650.99 CONSTRUCTIC SLOPE S <sup>-</sup> LF	ON STAKING TAKES			
	3 & 4 13+06 - 15+57 LT & RT 251 5 & 6 5+41 - 7+02 LT & RT 161 5 5+41 - 7+02 RT 6 5+94 - 7+02 LT PROJECT	231 141 	  43 43 	  1	15 15  		  1		251 161  	L			
	TOTALS 412	356	86	1	30		1		412	2			

PROJECT NO: 8040-01-74	HWY: STH 7	0	COUNTY: BURNETT	MISCELLANEOUS QUANTITIES	
	STAGE         STATION         TO         STATION         OFFS           3         13+06         -         15+41         LT           4         13+06         -         15+23         RT           5         5+41         -         7+02         RT           6         6+44         -         7+02         LT           TOTALS         TOTALS         -         -         -	690.0150 690.0250 SAWING SAWING ASPHALT CONCRETE ET LF LF 230 20 220 90 20			MOVING DELINEATORS ANI SF STAGE STATION OFFSET 5 5+87 RT 6 5+89 LT TOTAL

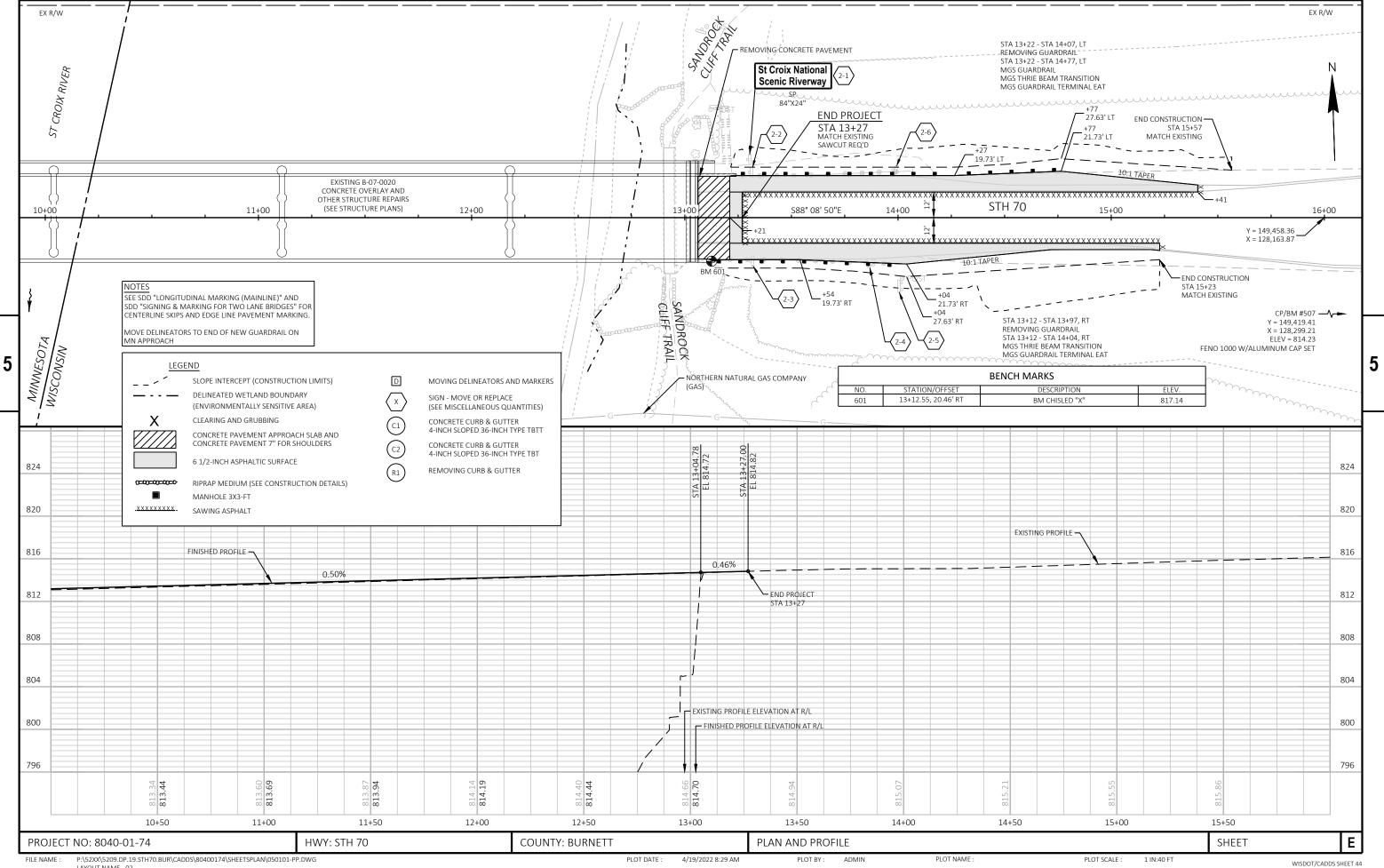
### SAND MARKERS

SPV.0060.01 EACH	
1 1	
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PLOT NAME



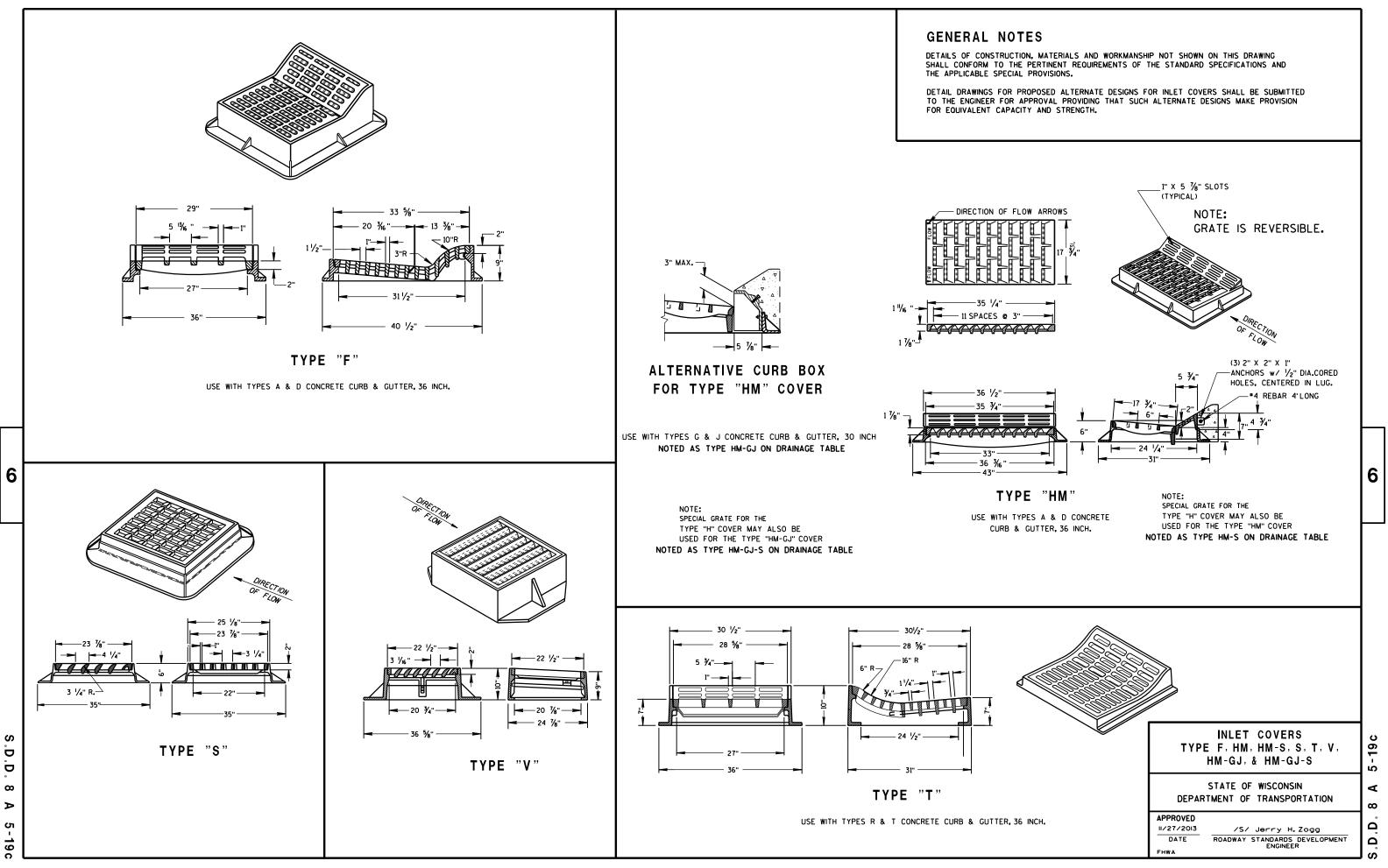
PLOT NAME

### Standard Detail Drawing List

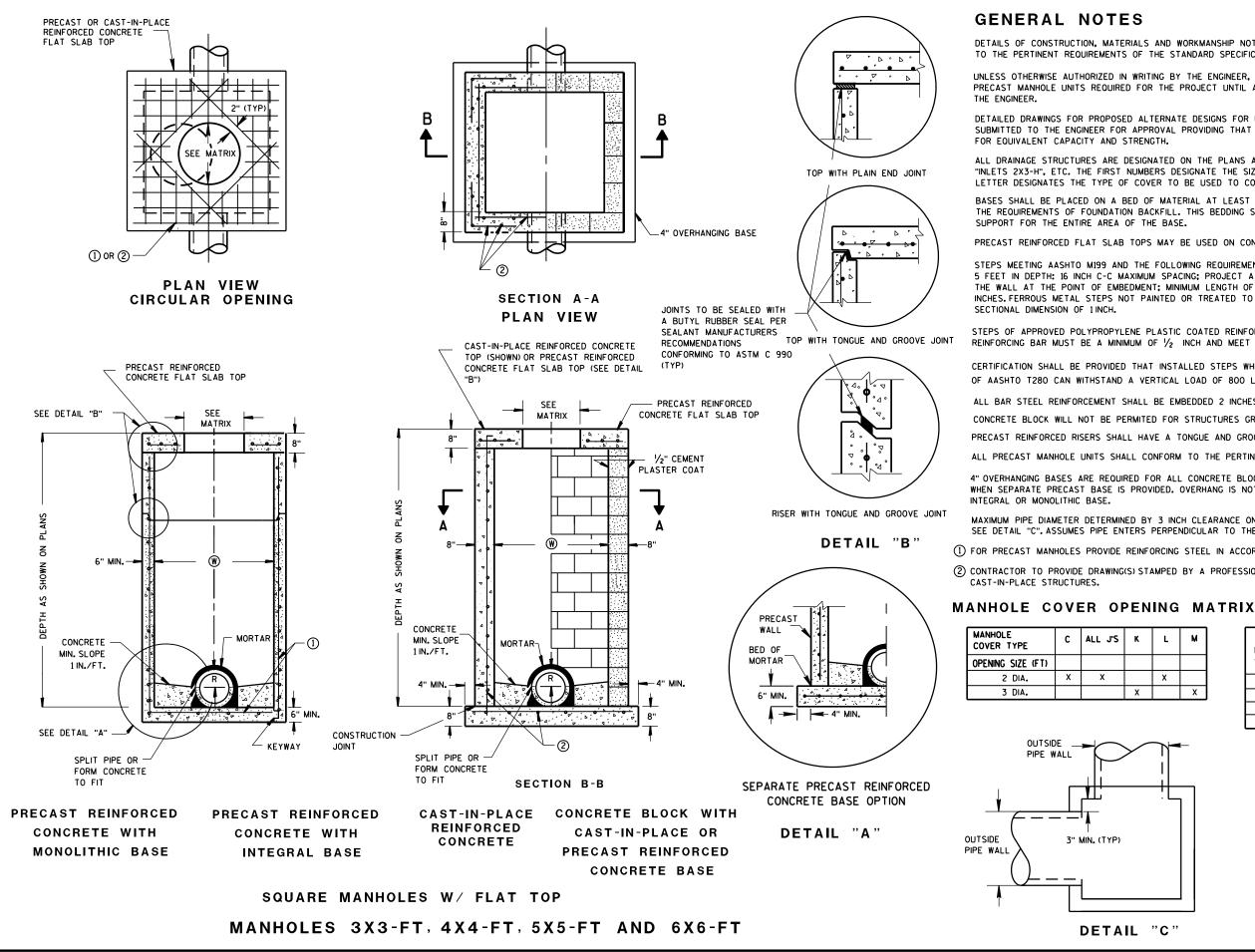
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08B10-02	MANHOLES 3X3-FT, 4X4-FT, 5X5-FT AND 6X6-FT
08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D02-07A	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-07B	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-07C	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D03-08A	CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES
08D03-08B	CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09G02-05A	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-05B	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-05C	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
12A03-10	NAME PLATE (STRUCTURES)
13A03-06	CONCRETE PAVEMENT SHOULDERS
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C19-03	HMA LONGITUDI NAL JOI NTS
14B07-15A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-08F	ADVANCED WIDTH RESTRICTION SIGNING
15CO4-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M. P. H. OR GREATER TWO-WAY UNI
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-20A	LONGI TUDI NAL MARKI NG (MAI NLI NE)
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-08	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D33-07	TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS

6

INDIVIDED ROAD OPEN TO TRAFFIC



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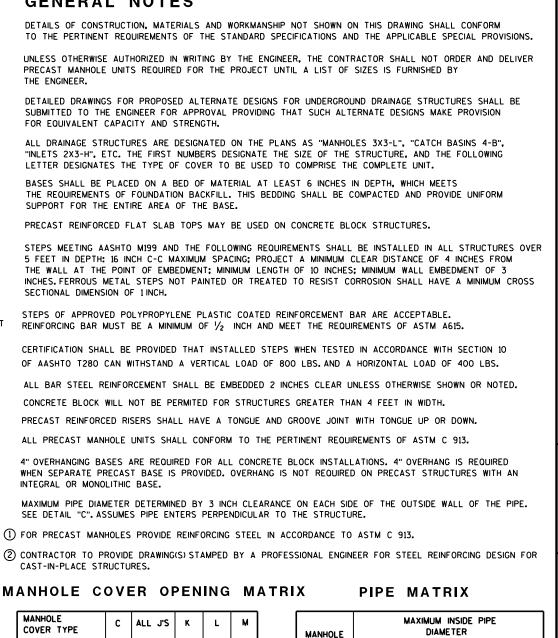
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	к	L	м		MANHOLE	MAXIMUM INSIDE PIPE DIAMETER		
					SIZE	WIDTH (W) (IN)	LENGTH () (IN)	
		х			3X3-FT	24	24	
	Х		X		4X4-FT	30	30	
					5X5-FT	42	42	
					6X6-FT	54	54	
MANHOLES 3X3-FT, 4X4-FT 5X5-FT AND 6X6-FT								
					STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
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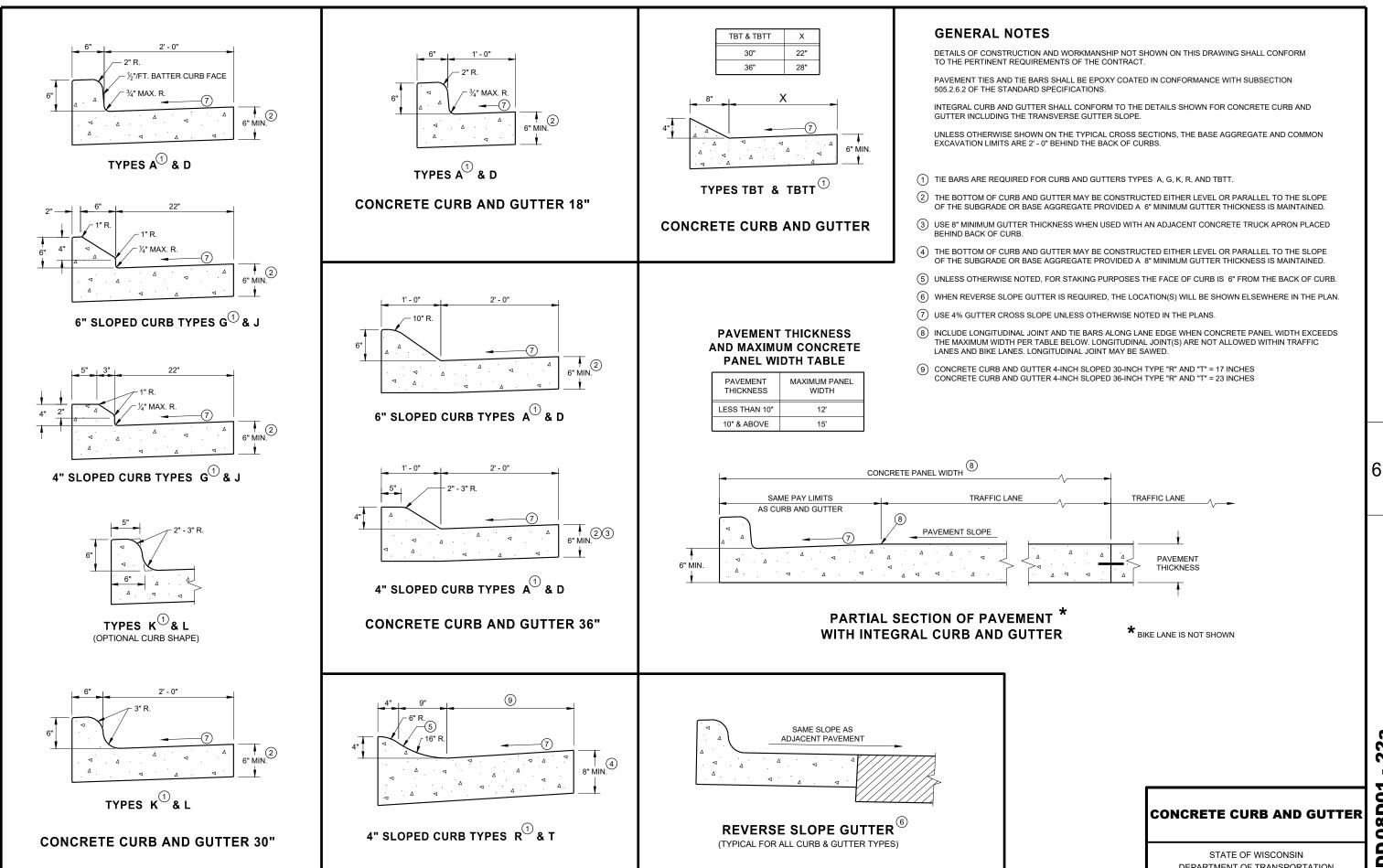
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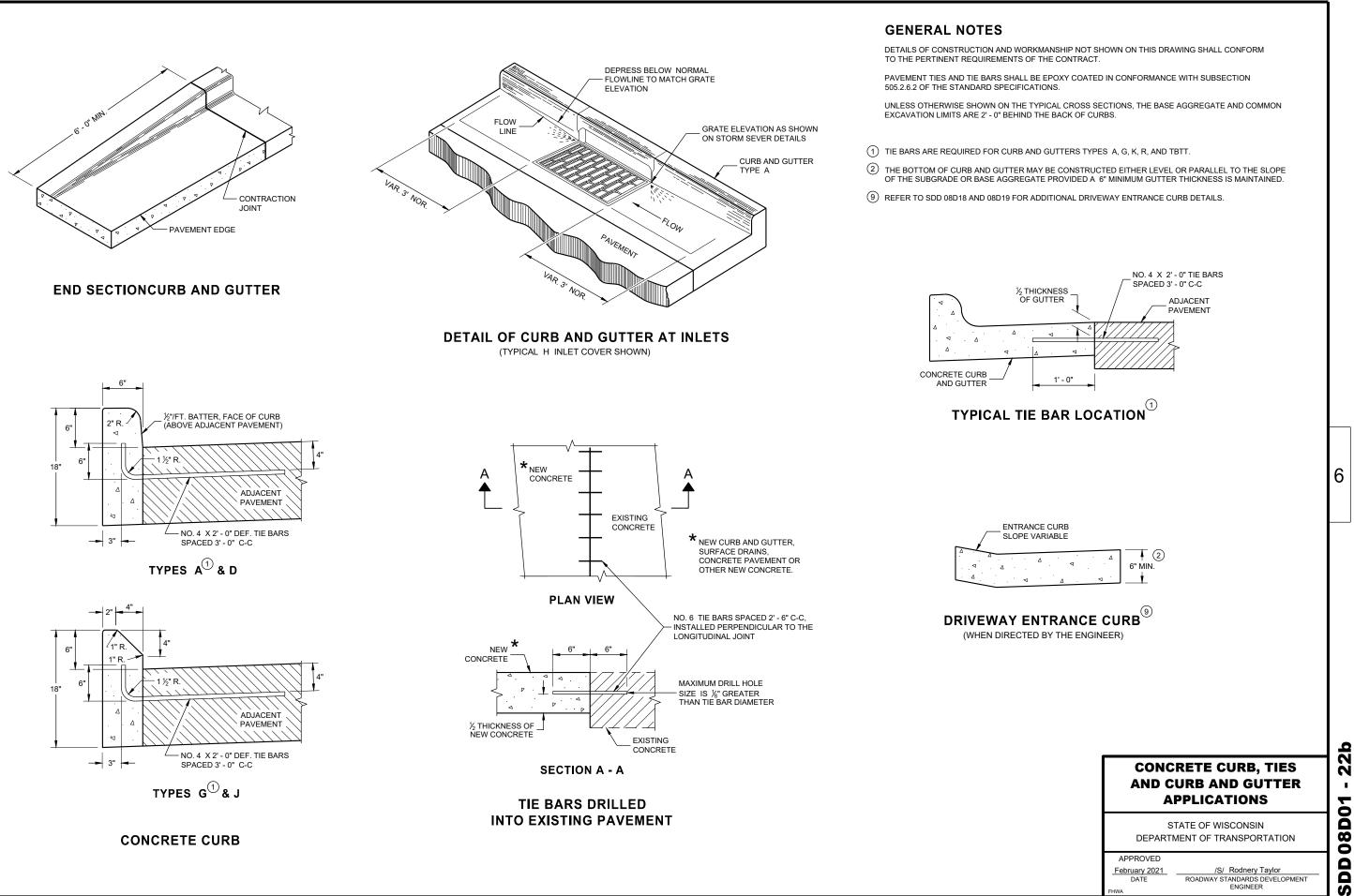


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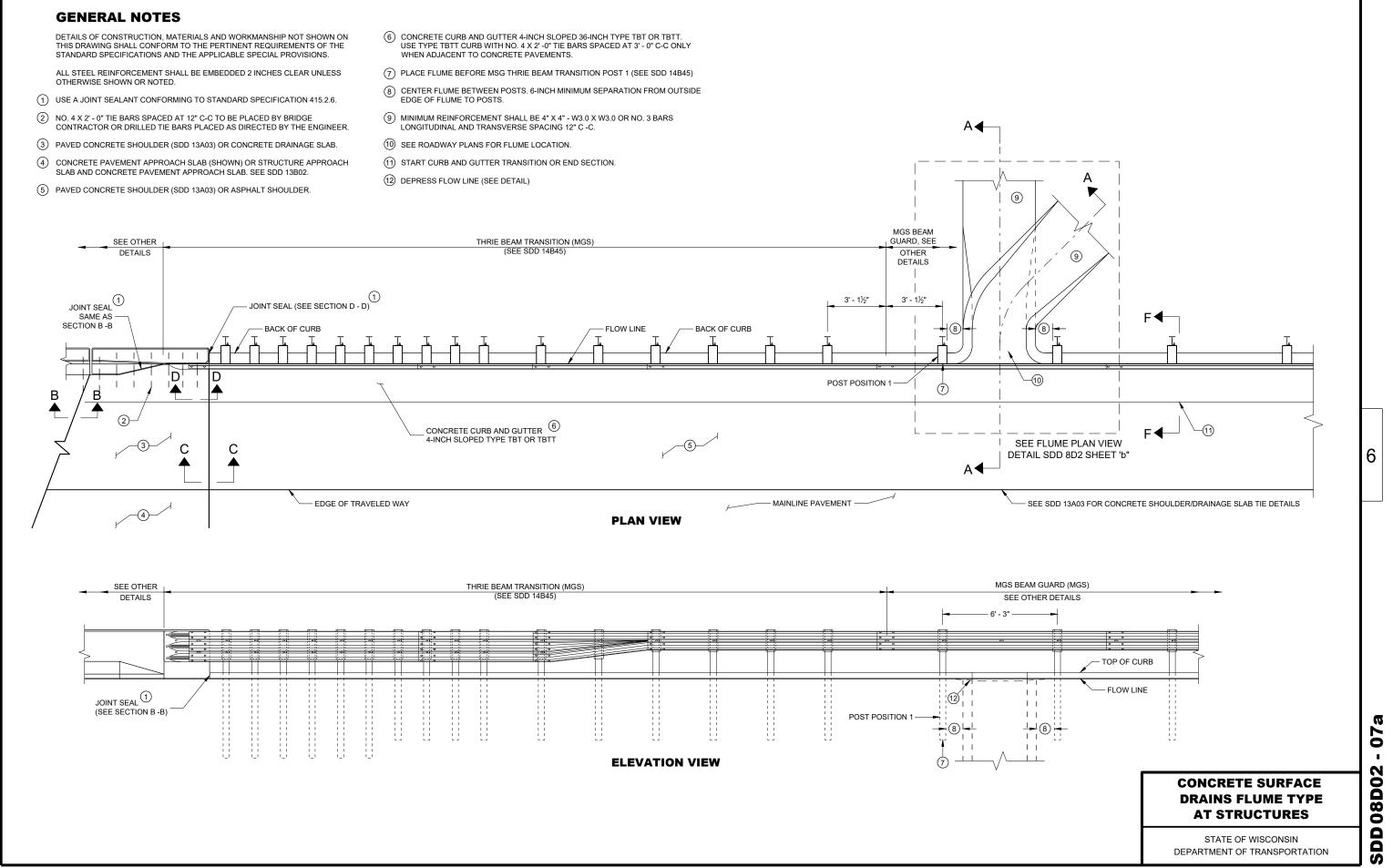
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DEPARTMENT OF TRANSPORTATION

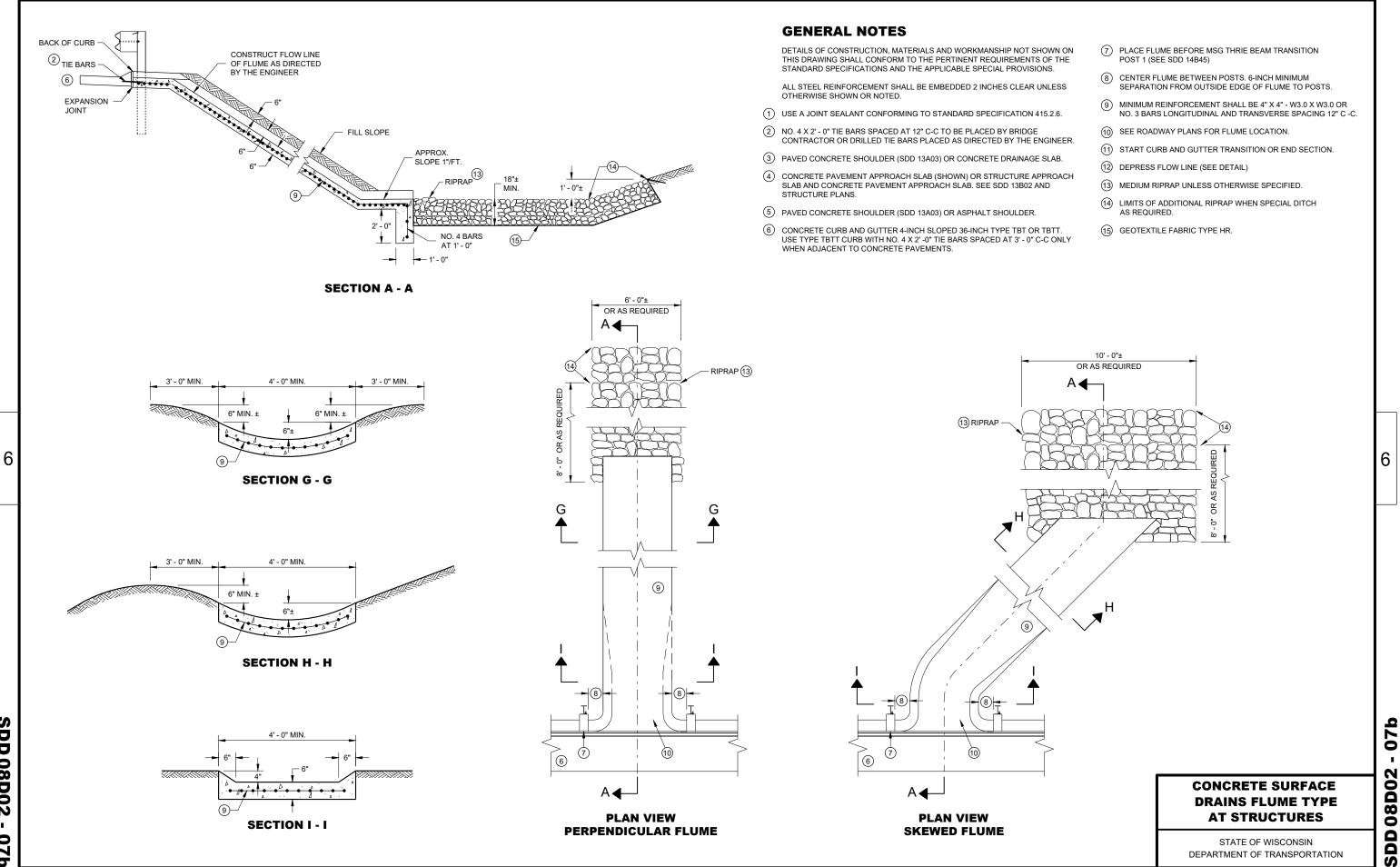
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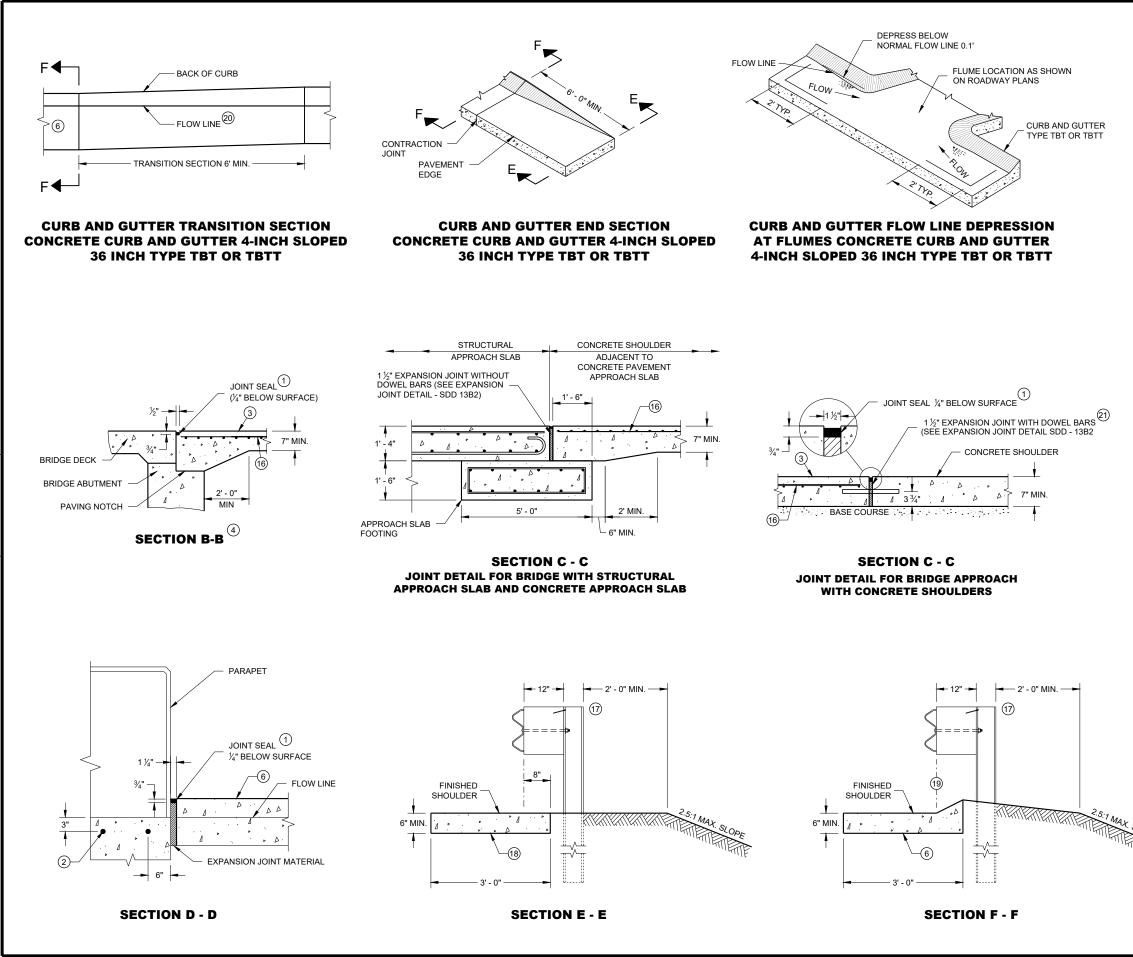


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## **GENERAL NOTES**

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

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

- (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.
- (1) SEE ROADWAY PLANS FOR FLUME LOCATION.
- (1) 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.



# CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2020 DATE

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT ENGINEER 6

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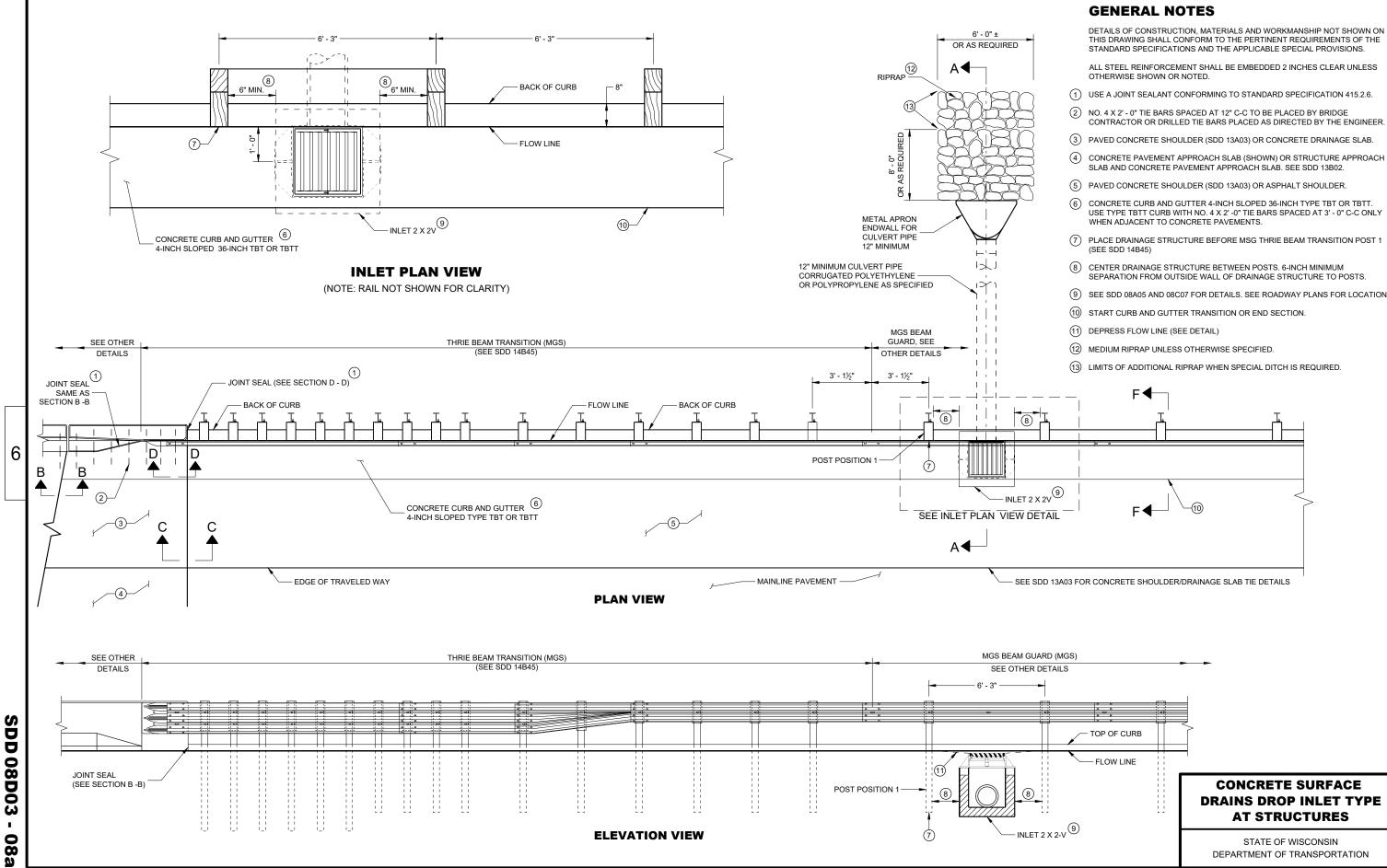
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THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS. ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS

- (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.
- (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
- PLACE DRAINAGE STRUCTURE BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)
- (8) CENTER DRAINAGE STRUCTURE BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE WALL OF DRAINAGE STRUCTURE TO POSTS.
- (9) SEE SDD 08A05 AND 08C07 FOR DETAILS. SEE ROADWAY PLANS FOR LOCATION.

- (13) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.

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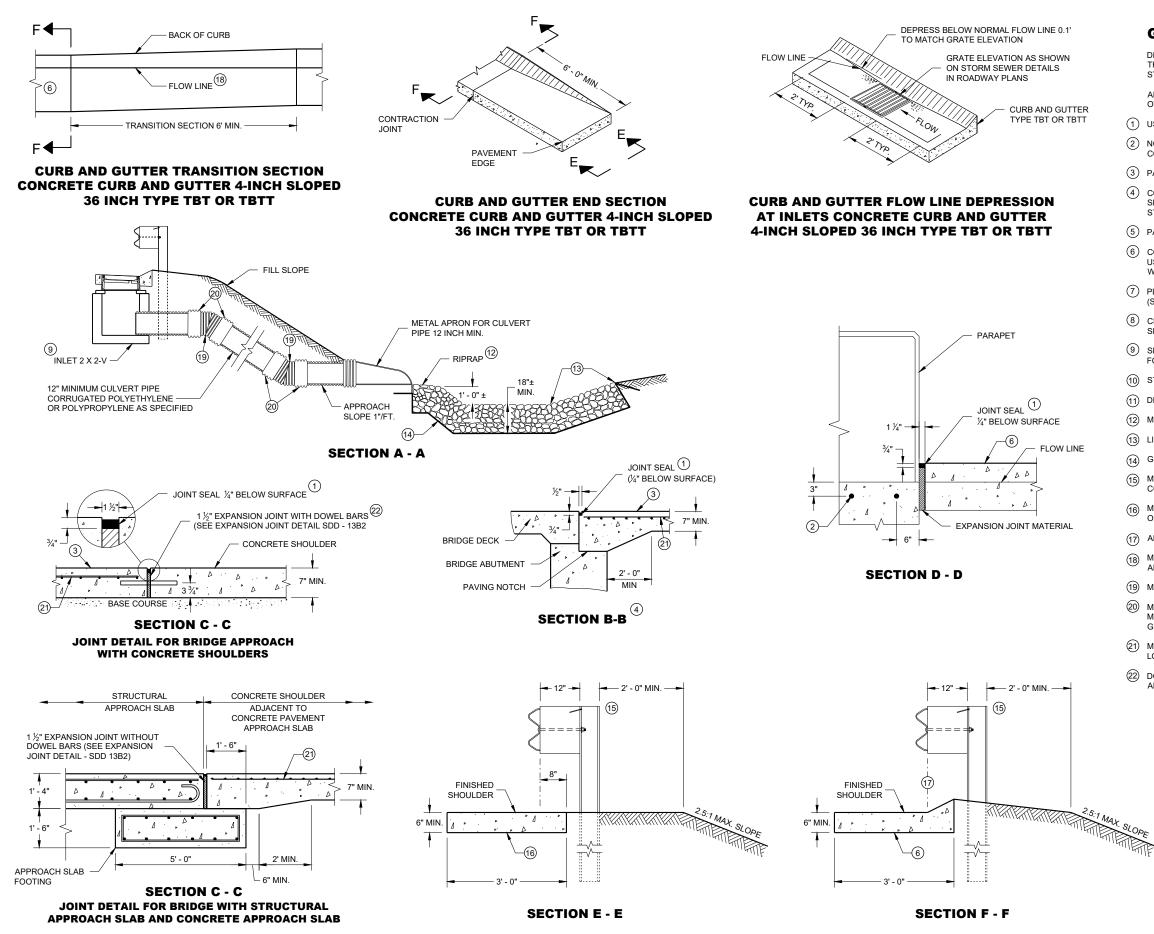
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**CONCRETE SURFACE** 

# DRAINS DROP INLET TYPE **AT STRUCTURES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



DD 08D03 - 08b

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## **GENERAL NOTES**

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

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

- (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 DRAINAGE STRUCTURE BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)
- (8) CENTER DRAINAGE STRUCTURE BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE WALL OF DRAINAGE STRUCTURE TO POSTS.
- (9) SEE SDD 08A05 AND 08C07 FOR DETAILS. SEE ROADWAY PLANS FOR LOCATION.
- (10) START CURB AND GUTTER TRANSITION OR END SECTION.
- (11) DEPRESS FLOW LINE (SEE DETAIL)
- (12) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.
- (13) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.
- (14) GEOTEXTILE FABRIC TYPE HR.
- (5) MSG THRIE BEAM TRANSITION POST 1. SEE SDD 14B45 FOR ADDITIONAL CONSTRUCTION DETAILS AND ACCEPTABLE MATERIALS.
- (f) MAINTAIN WIDTH, THICKNESS AND CROSS SLOPE OF ADJACENT TYPE TBT OR TBTT CURB. SEE NOTE 6 FOR TIE BAR SPACING.
- (17) ALIGN FACE OF POST BLOCK WITH FLOW LINE.
- (B) MAINTAIN FLOW LINE AT EDGE OF PAVEMENT/FACE OF BEAM GUARD AS APPLICABLE.
- (19) MANUFACTURER SUPPLIED BEND.
- (2) MANUFACTURER SUPPLIED EXTERNAL MECHANICAL COUPLING OR A MANUFACTURER RECOMMENDED COUPLING WITH A MASTIC IMPREGNATED GEOTEXTILE WRAP AND MECHANICAL FASTENING BANDS.
- (21) MINIMUM REINFORCEMENT SHALL BE 6" X 6" W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C C.
- (22) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING HMA PAVEMENTS.

# CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES

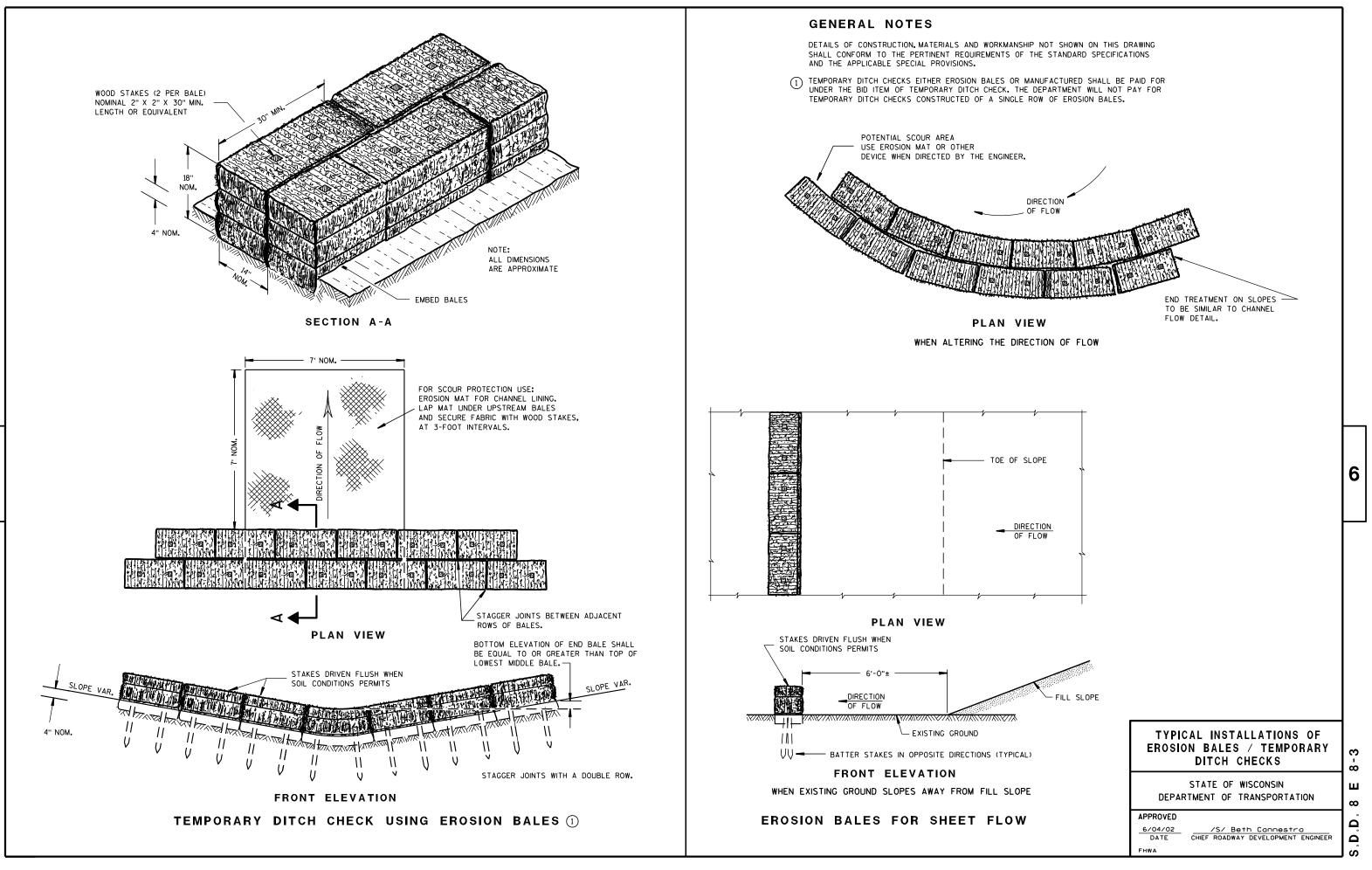
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2020 DATE

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT ENGINEER 6

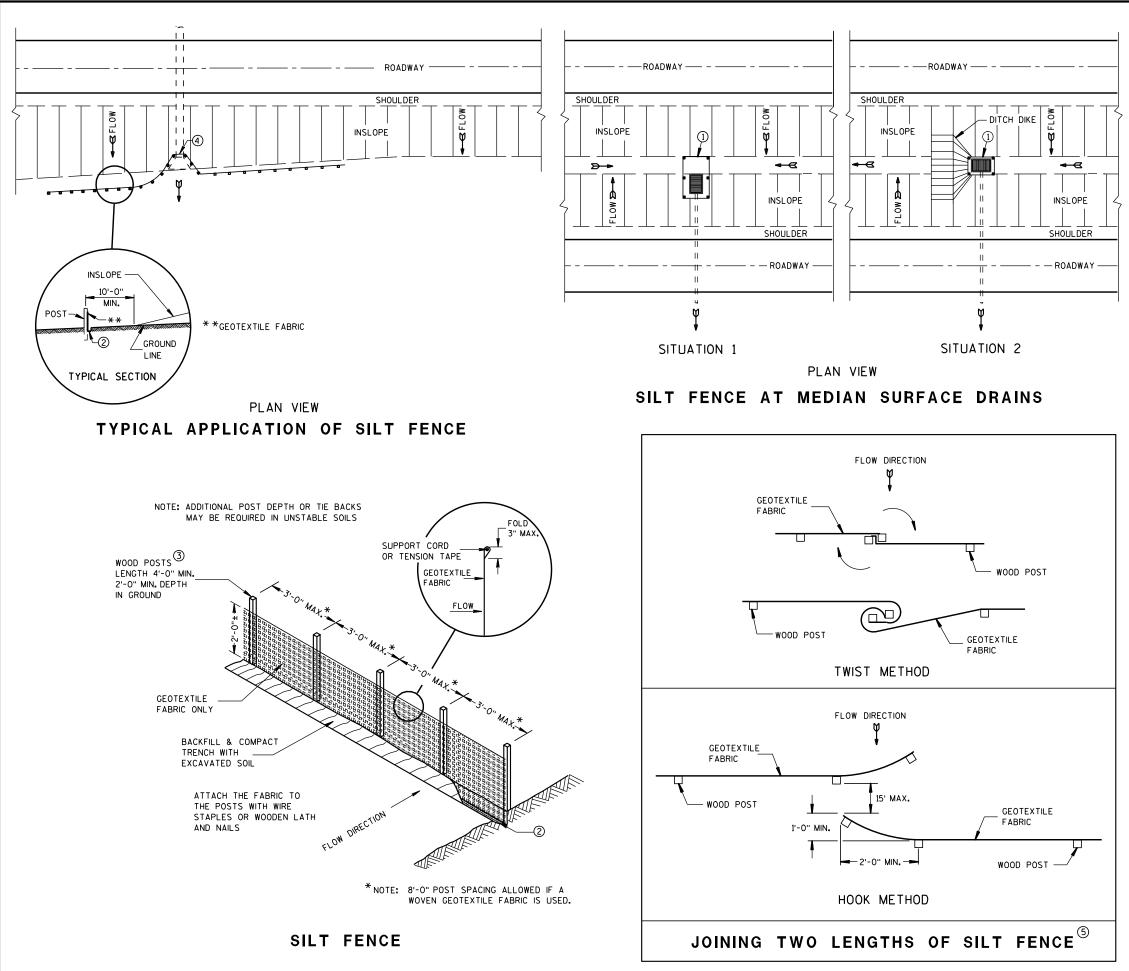
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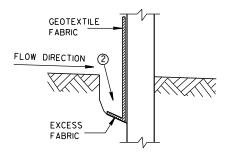
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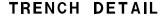
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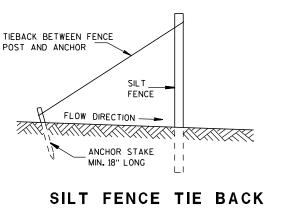
# **GENERAL NOTES**

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

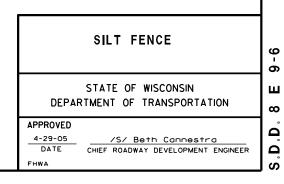
- $\bigcirc$  horizontal brace required with 2" x 4" wooden frame or equivalent at top of posts.
- (2) FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- (3) WOOD POSTS SHALL BE A MINIMUM SIZE OF  $1/_8$ " X  $1/_8$ " 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.

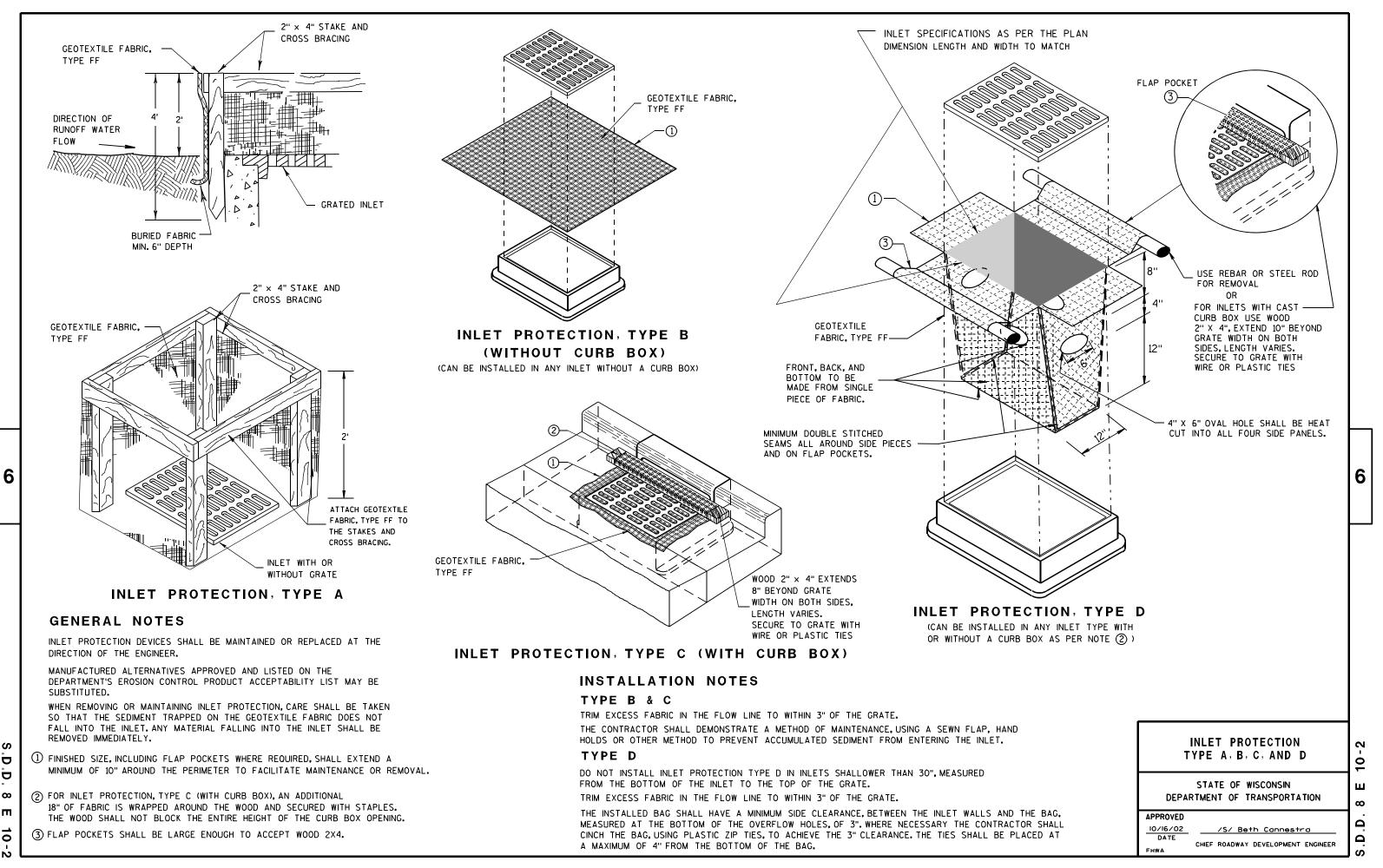




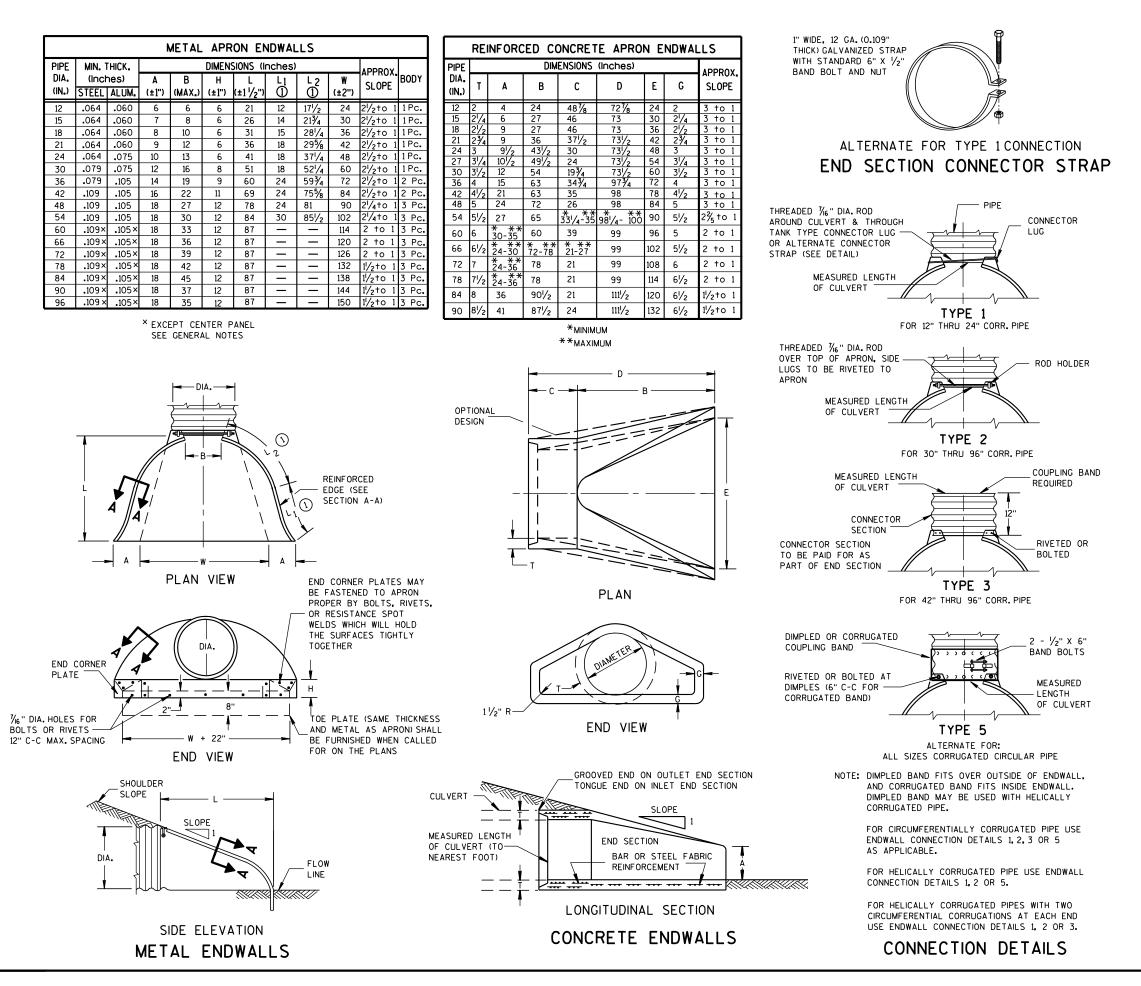


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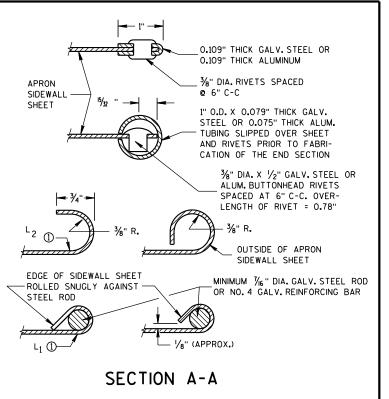


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# GENERAL NOTES

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

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

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

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

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

 $\bigoplus$  for PIPE SIZES UP to 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

## APRON ENDWALLS FOR CULVERT PIPE

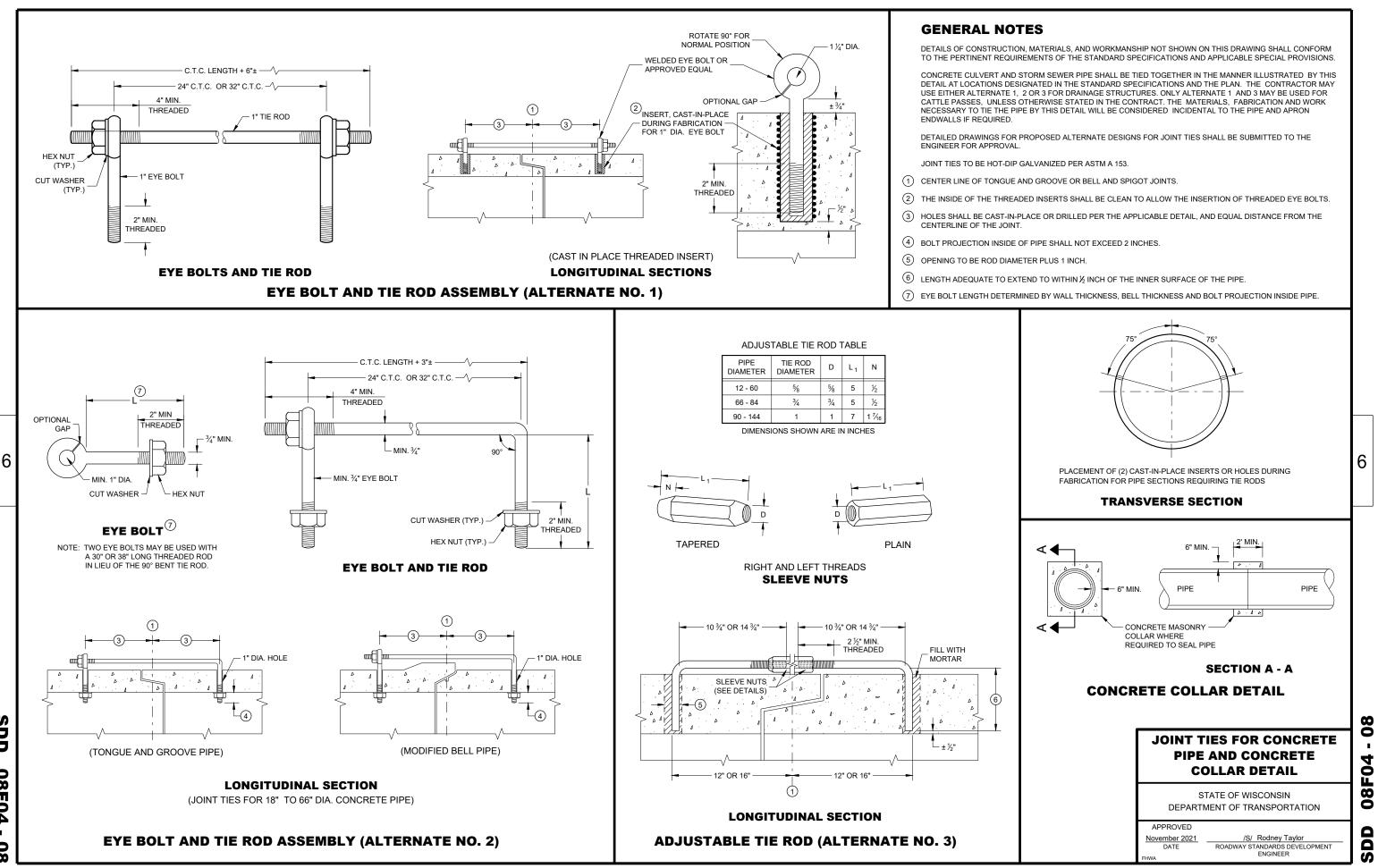
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED II/30/94 DATE FHWA

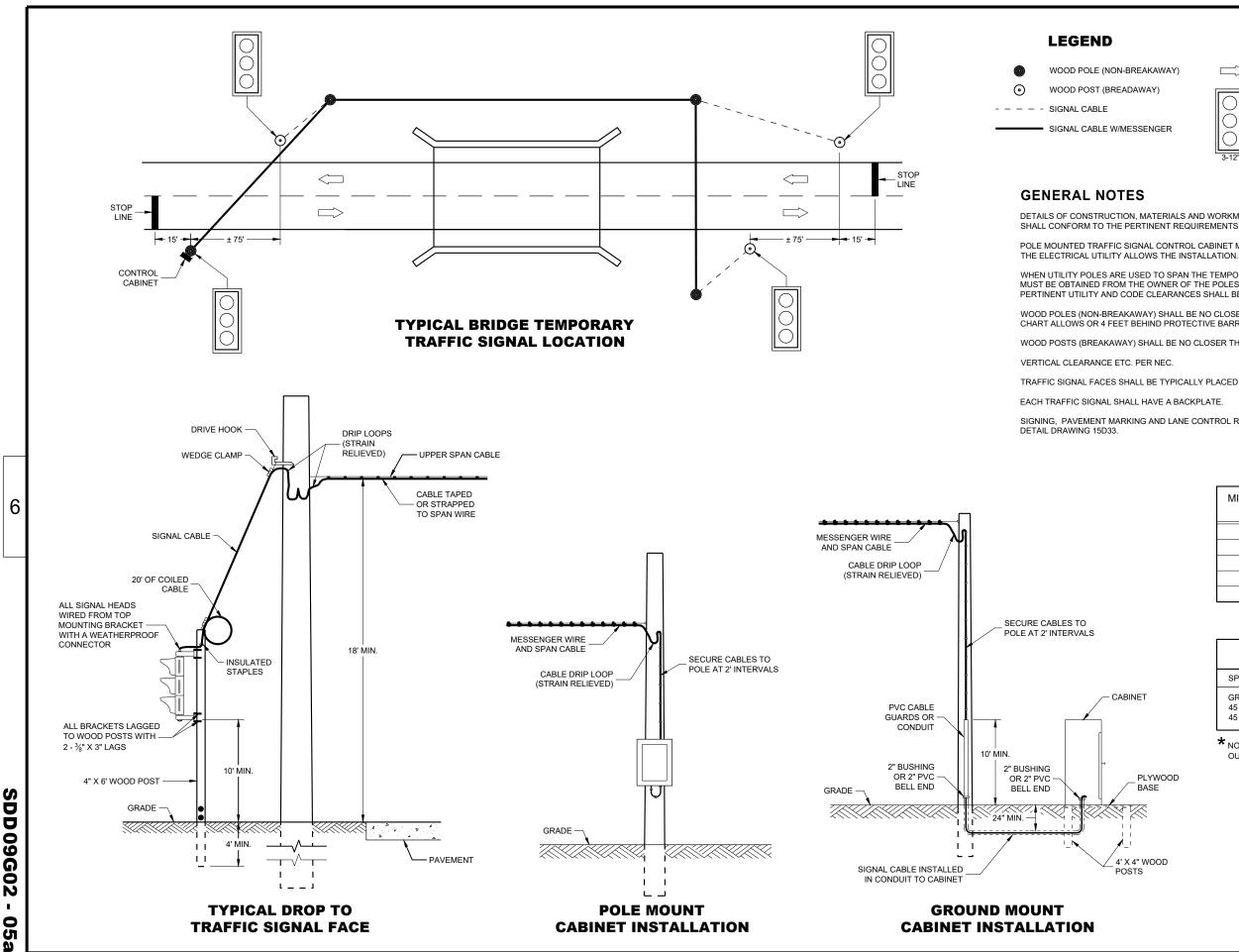
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LED TRAFFIC SIGNAL WITH BACKPLATE

DIRECTION OF TRAFFIC

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

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POLE MOUNTED TRAFFIC SIGNAL CONTROL CABINET MAY BE MOUNTED ON THE SERVICE POLE IF

WHEN UTILITY POLES ARE USED TO SPAN THE TEMPORARY OVERHEAD CABLE, WRITTEN PERMISSION MUST BE OBTAINED FROM THE OWNER OF THE POLES AND GIVEN TO THE PROJECT MANAGER. ALL PERTINENT UTILITY AND CODE CLEARANCES SHALL BE MAINTAINED.

WOOD POLES (NON-BREAKAWAY) SHALL BE NO CLOSER TO EDGE OF PAVEMENT THAN OFFSET DISTANCE CHART ALLOWS OR 4 FEET BEHIND PROTECTIVE BARRIER (BEAM GUARD, ETC.).

WOOD POSTS (BREAKAWAY) SHALL BE NO CLOSER THAN 2 FEET OUTSIDE OF SHOULDER.

TRAFFIC SIGNAL FACES SHALL BE TYPICALLY PLACED 12 FEET FROM EDGE OF PAVEMENT.

SIGNING, PAVEMENT MARKING AND LANE CONTROL REQUIREMENTS SHALL CONFORM TO STANDARD

MINIMUM POLE LENGTHS	CLASS	POLE BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

OFFSET DISTANCES FOR TEMPORARY NON-BREAKAWAY POLES OFFSET DISTANCE\* SPEED LIMIT **GREATER THAN 45 MPH** 18 FT 45 MPH OR LESS 12 FT 45 MPH OR LESS W/CURBS 2 FT

\* NOTE: OFFSET MEASURED FROM OUTER EDGE OF OUTSIDE THRU LANE.

PLYWOOD

# **BRIDGE TEMPORARY TRAFFIC SIGNAL** INSTALLATION

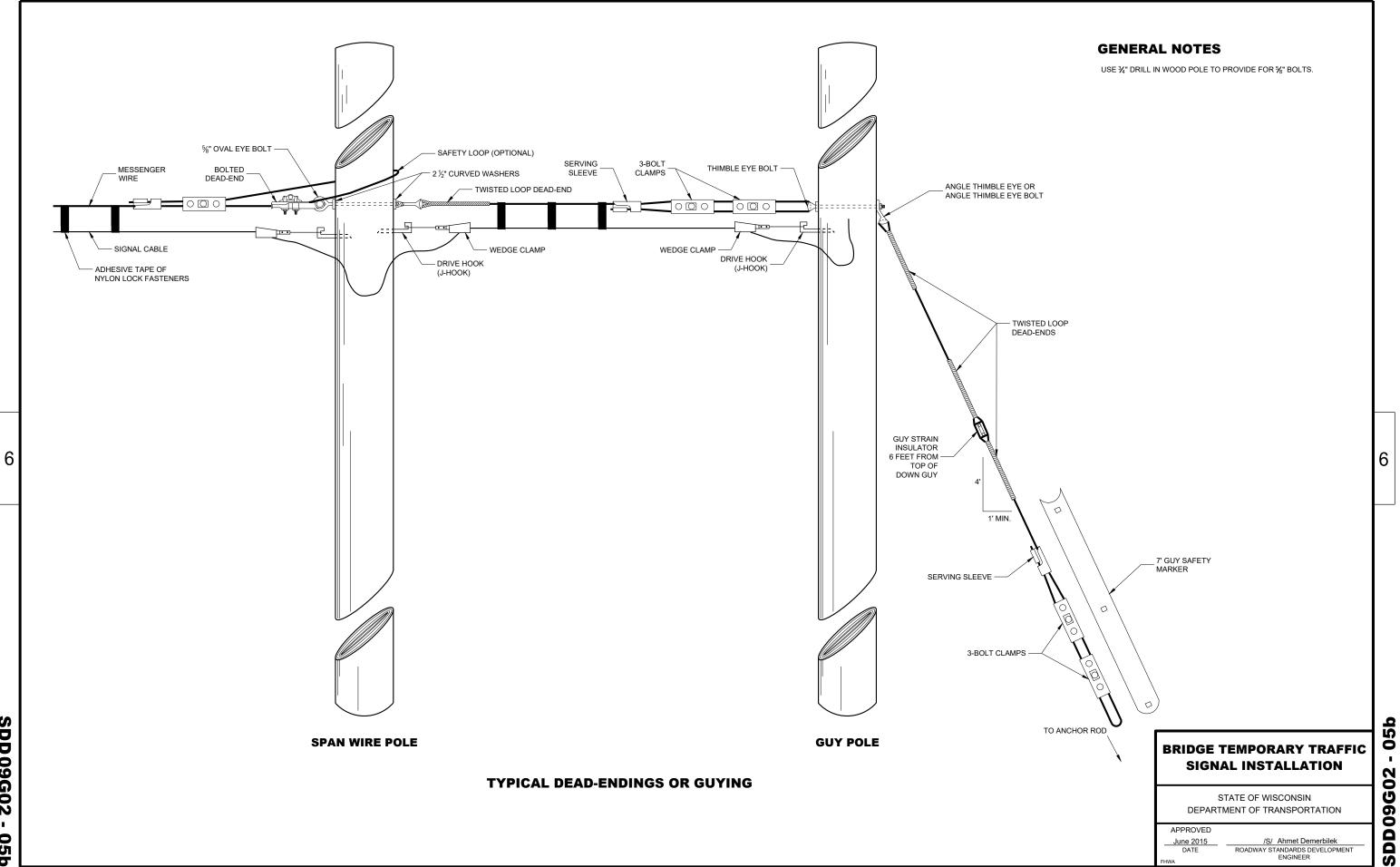
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

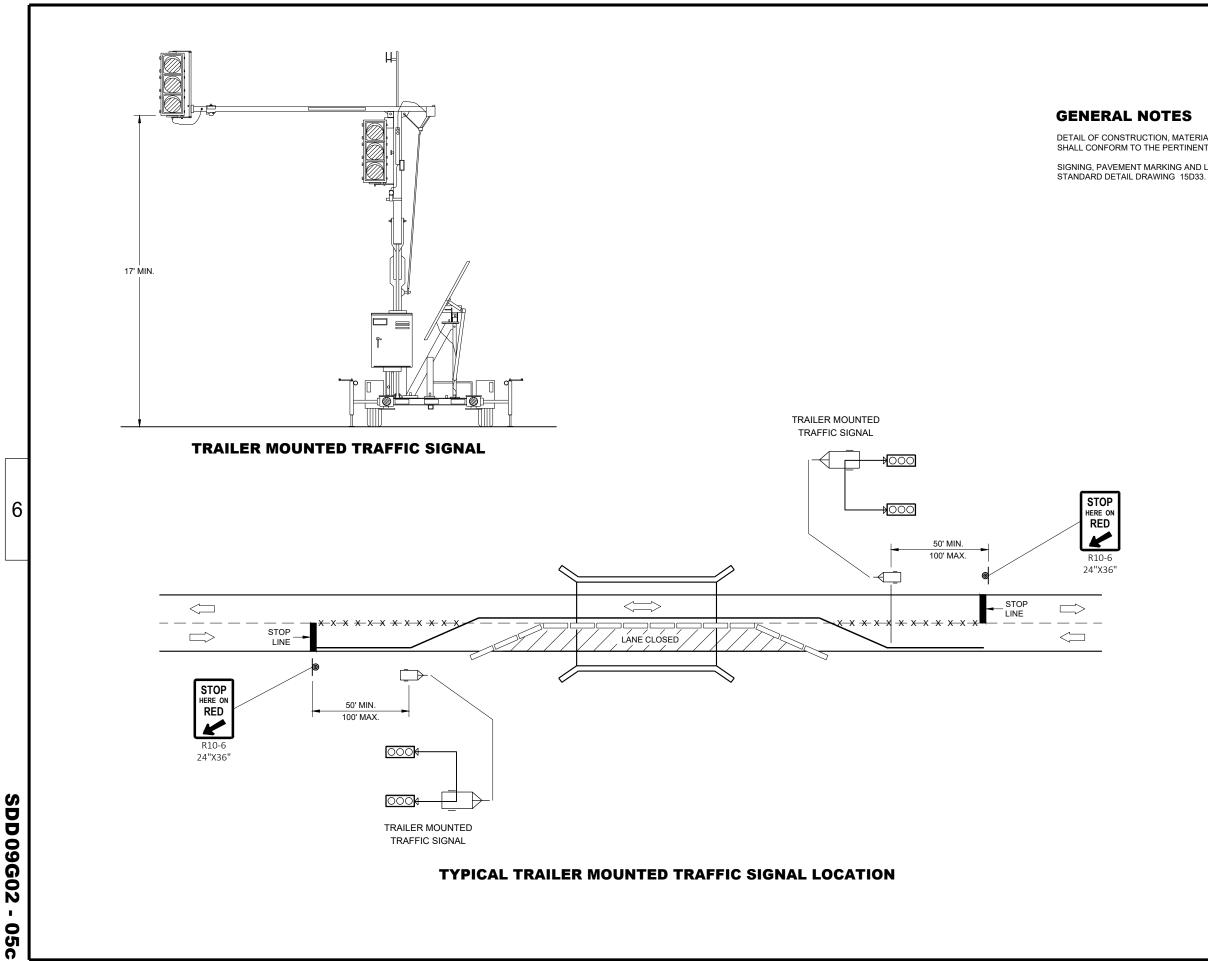
APPROVED March 2018 DATE

/S/ Ahmet Demirbile ROADWAY STANDARDS DEVELOPMENT ENGINEER 6

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

SIGNING, PAVEMENT MARKING AND LANE CONTROL REQUIREMENTS SHALL CONFORM TO

# LEGEND

- POST MOUNTED SIGN
- TEMPORARY PRECAST CONCRETE BARRIER
- TRAILER MOUNTED TRAFFIC SIGNAL  $\neg$
- REMOVE PAVEMENT MARKINGS
- $\Box$ DIRECTION OF TRAFFIC

# **BRIDGE TEMPORARY TRAFFIC** SIGNAL INSTALLATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED June 2015 DATE

/S/ Ahmet Demerbilek ROADWAY STANDARDS DEVELOPMENT ENGINEER

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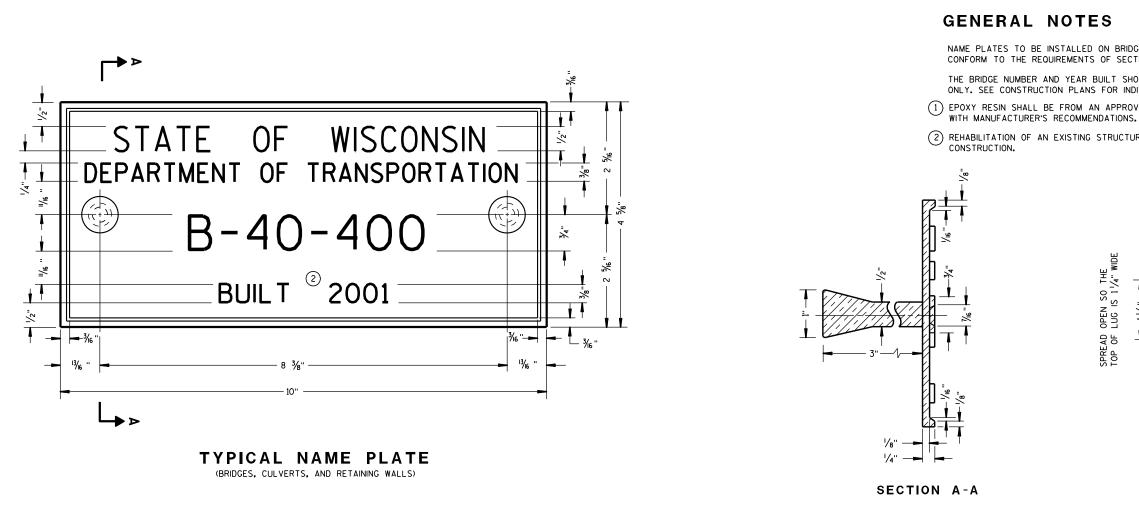
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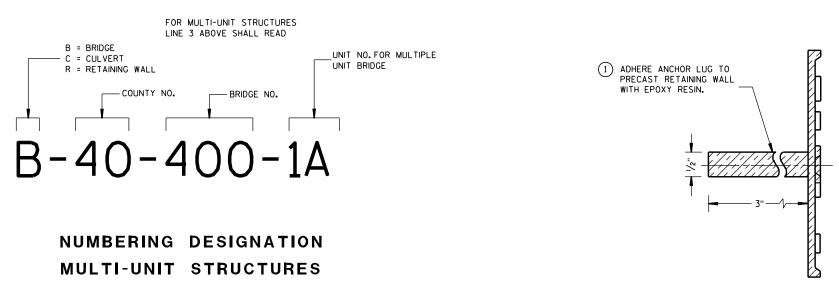
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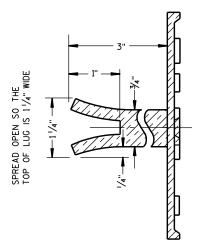


ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT. (1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE

(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE



## ALTERNATE LUG

## NAME PLATE (STRUCTURES)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

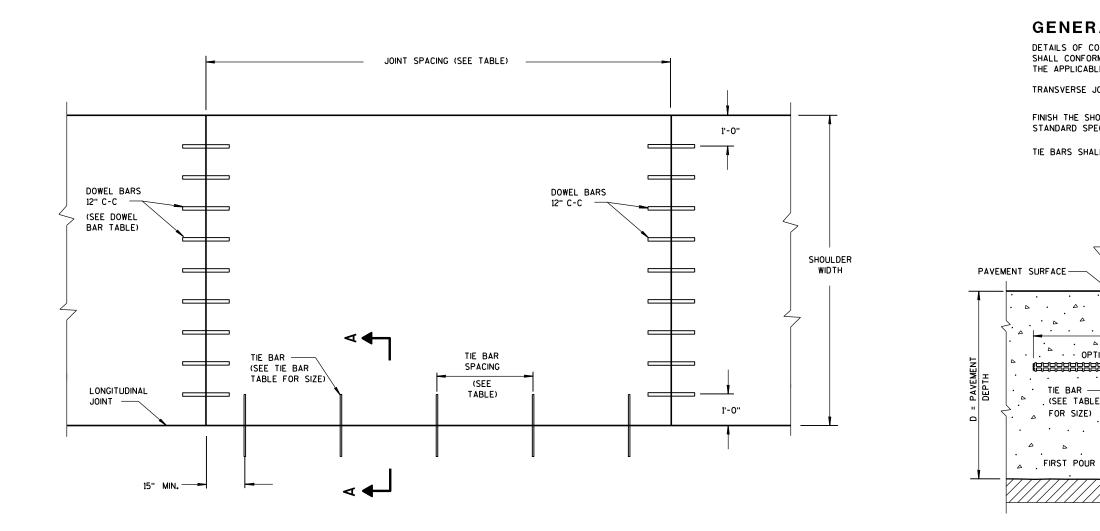
### APPROVED

3/26/10 DATE FHWA

/S/ Scot Becker CHIEF STRUCTURAL DEVELOPMENT ENGINEER 3-10 ∢ 2 Δ

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## TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR Size	TIE BAR Length (L)	MAX. TIE BAR Spacing
< 10 ½"	NO. 4	30"	36"
> 10 1/2"	NO. 5	36"	36"
2 10 72	NO. 4 *	30"	24" <sup>**</sup>

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

\*\* CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN THE BARS WILL BE 30" AT TRANSVERSE JOINTS.

# PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER <sup>***</sup>	CONTRACTION JOINT SPACING
5 1/2", 6",6 1/2"	NONE	12'
7" <b>,</b> 7 1⁄2"	1''	14'
8", 8 <sup>1</sup> /2"	1 1⁄4"	15'
9" <b>,</b> 9 ½"	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.

# **GENERAL NOTES**

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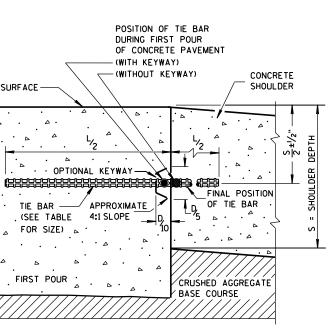
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DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

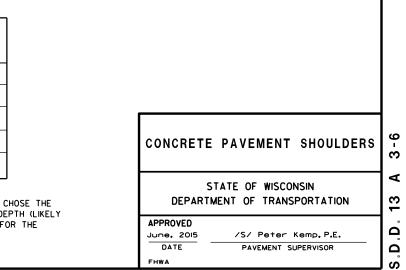
TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

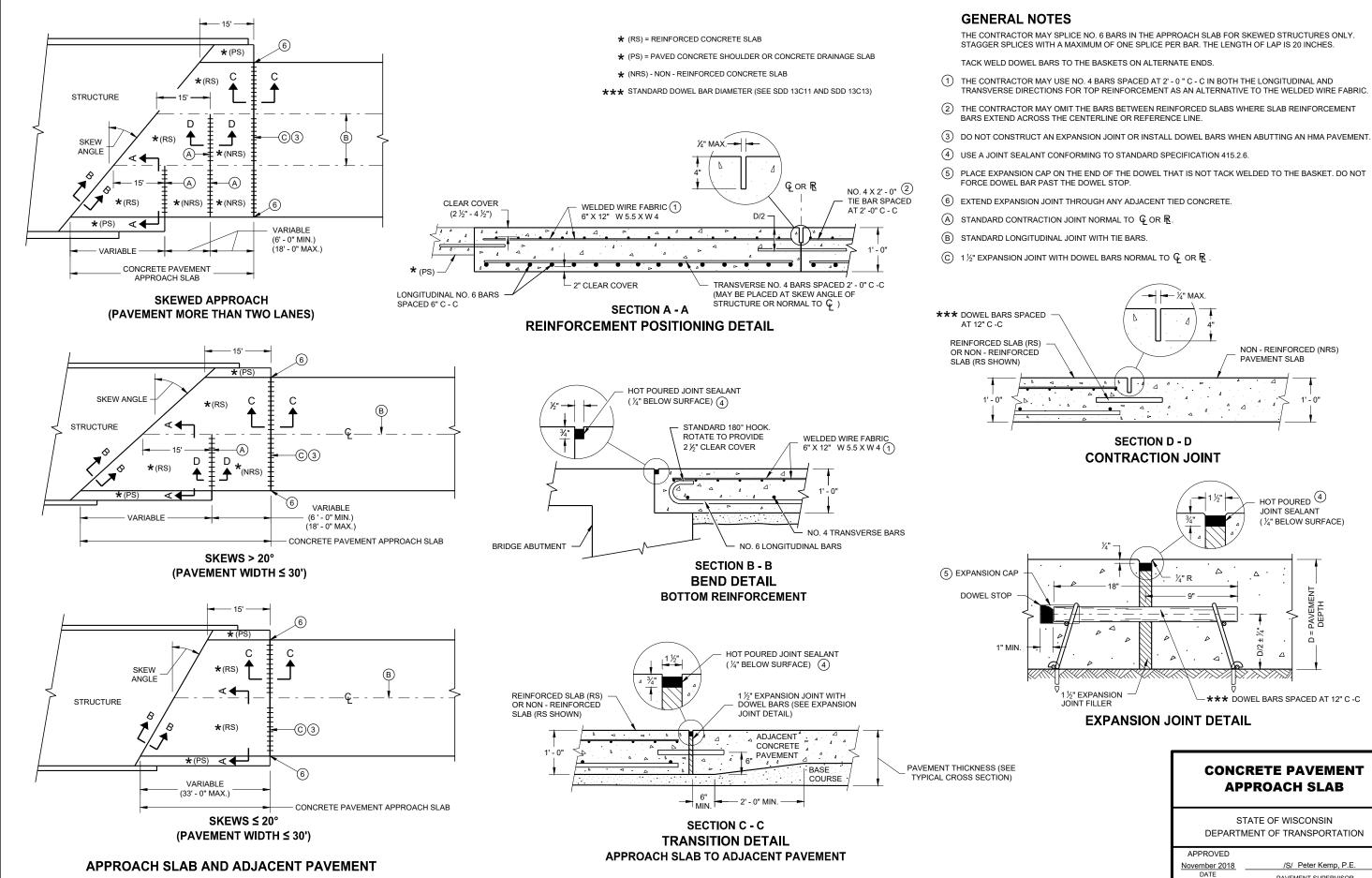
FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE STANDARD SPECIFICATIONS.

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



# SECTION A-A LONGITUDINAL CONSTRUCTION JOINT





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DEPARTMENT OF TRANSPORTATION

PAVEMENT SUPERVISOR

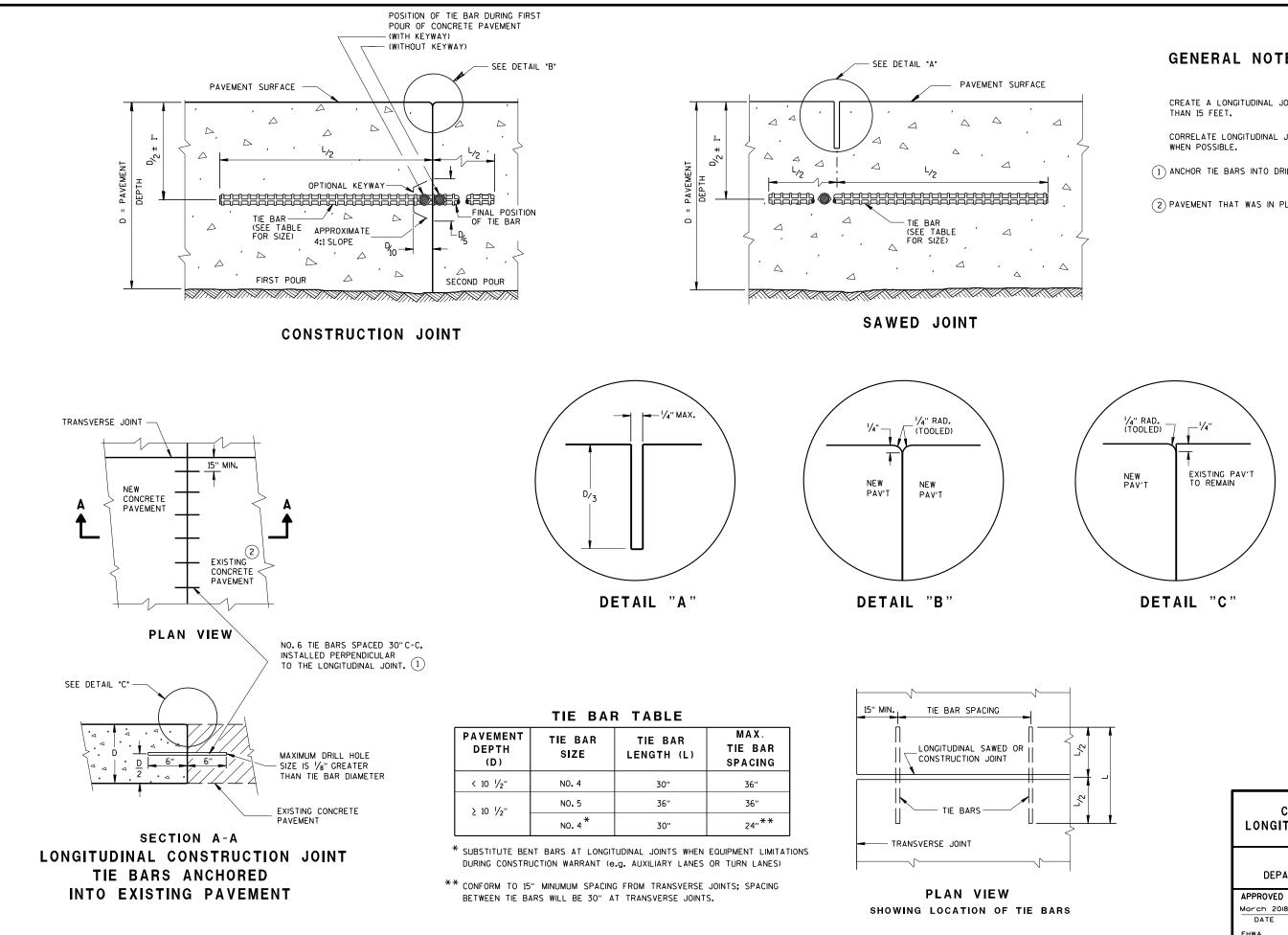
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# **GENERAL NOTES**

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES

- (1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.
- (2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

## CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

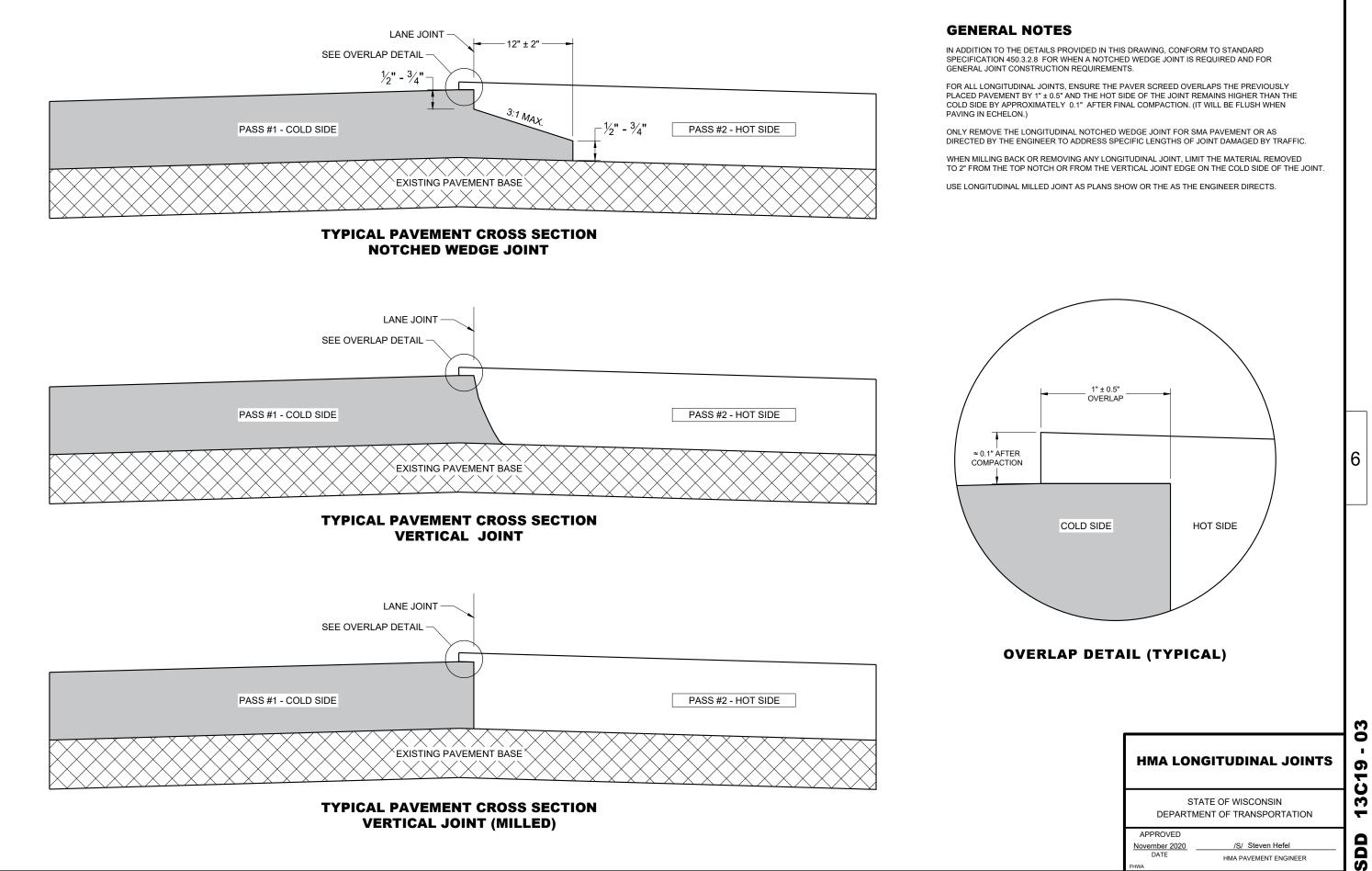
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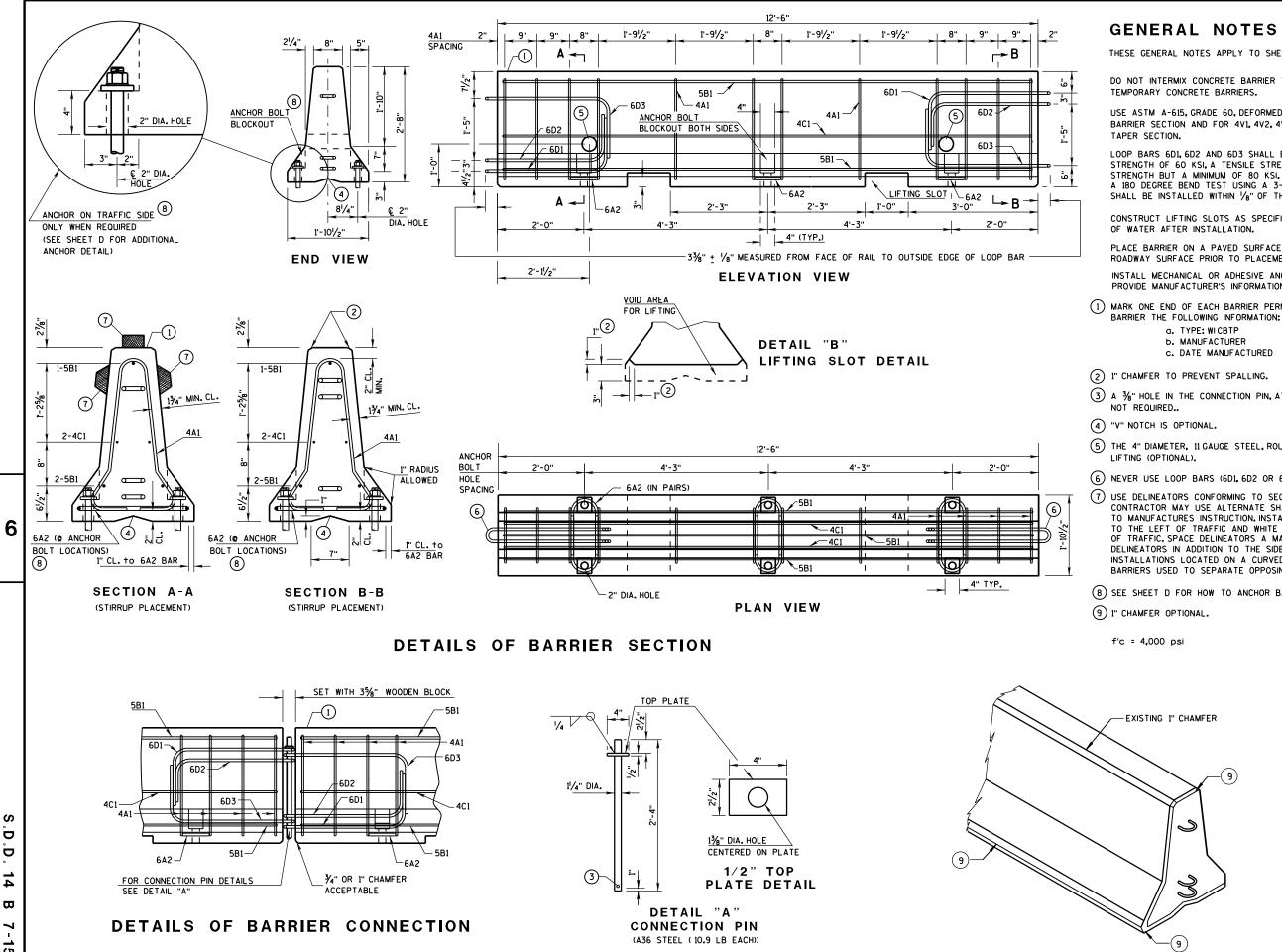
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/S/ Peter Kemp, P.E. PAVEMENT SUPERVISOR

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THESE GENERAL NOTES APPLY TO SHEETS 14B7-15(a) THRU 14B7-15(i).

- DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH OTHER
- USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER
- LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE  $\frac{3}{4}$ " SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-1/2" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN 1/8" OF THE PLAN DIMENSION.
- CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE
- PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.
- INSTALL MECHANICAL OR ADHESIVE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.
- (1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE

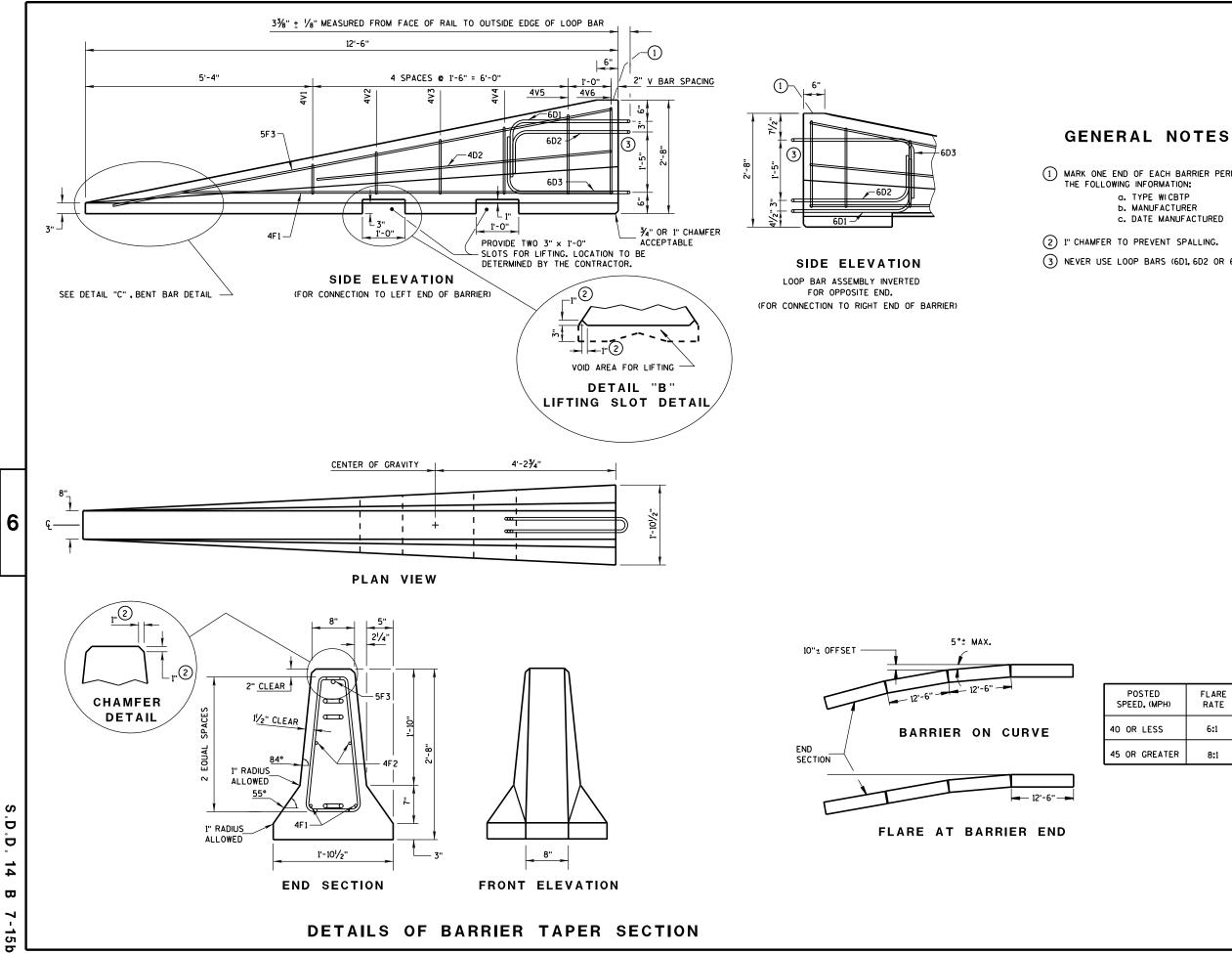
  - **b. MANUFACTURER**
  - c. DATE MANUFACTURED (MONTH AND YEAR)
- (3) A 3/8" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT
- (5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR
- (6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.
- (7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.
- (8) SEE SHEET D FOR HOW TO ANCHOR BARRIER. SEE SHEET E FOR WHEN TO ANCHOR BARRIER.

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

-15 ~ ш 14 Δ Δ

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1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER TYPE WICBTP
 MANUFACTURER c. DATE MANUFACTURED (MONTH AND YEAR)

(3) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

red (MPH)	FLARE RATE
ESS	6:1
REATER	8:1

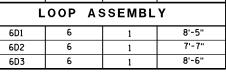
# CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

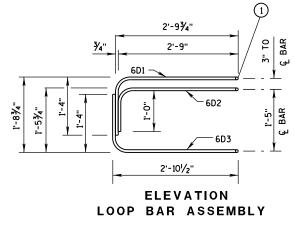
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION -15b ~ ш 14 Δ Δ S

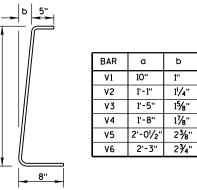
# GENERAL NOTES

### BARRIER TAPER SECTION BILL OF MATERIALS (PER 12'-6" BARRIER TAPER SECTION)

BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11''
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F 3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"







2" MIN. CLEAR 2" MIN. CLEAR

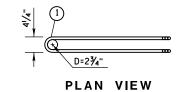
DETAIL "C" BENT BAR DETAIL

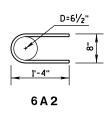




(PER 12'-6" BARRIER SECTION)

BAR	BAR SIZE	NO. OF BARS	LENGTH FT.	
4A1	4	12	6'-0"	
6A2	6	6	2'-11"	
5B1	5	3	12'-2"	
4C1	4	2	12'-2"	
L	LOOP ASSEMBLY			
6D1	6	2	8'-5"	
6D2	6	2	7'-7"	
6D3	6	2	8'-6"	



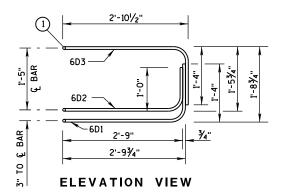


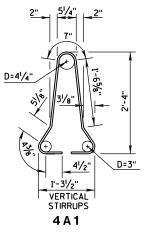


# TAPER BARRIER SECTION

6

1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.





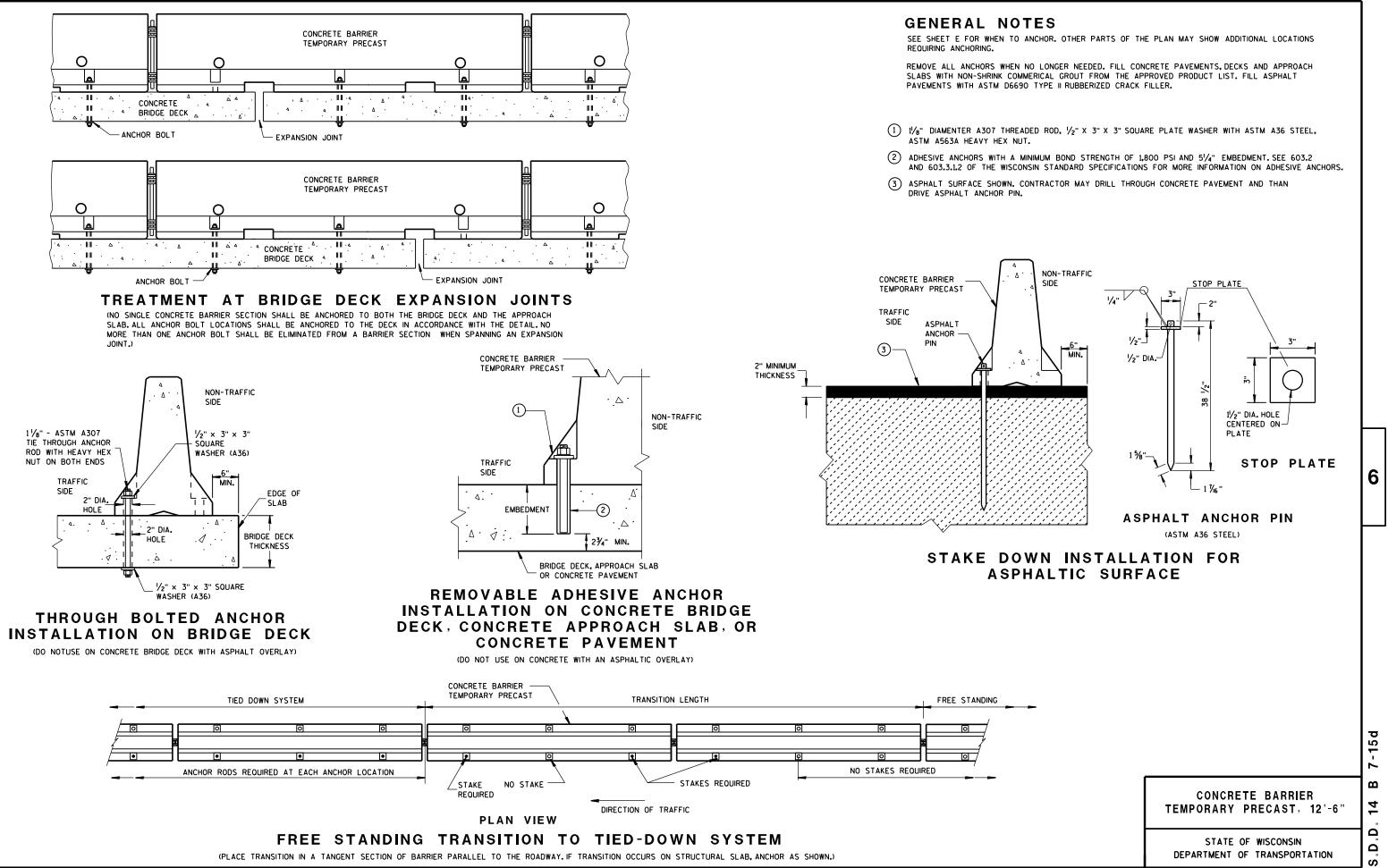
**BARRIER SECTION** 

# CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

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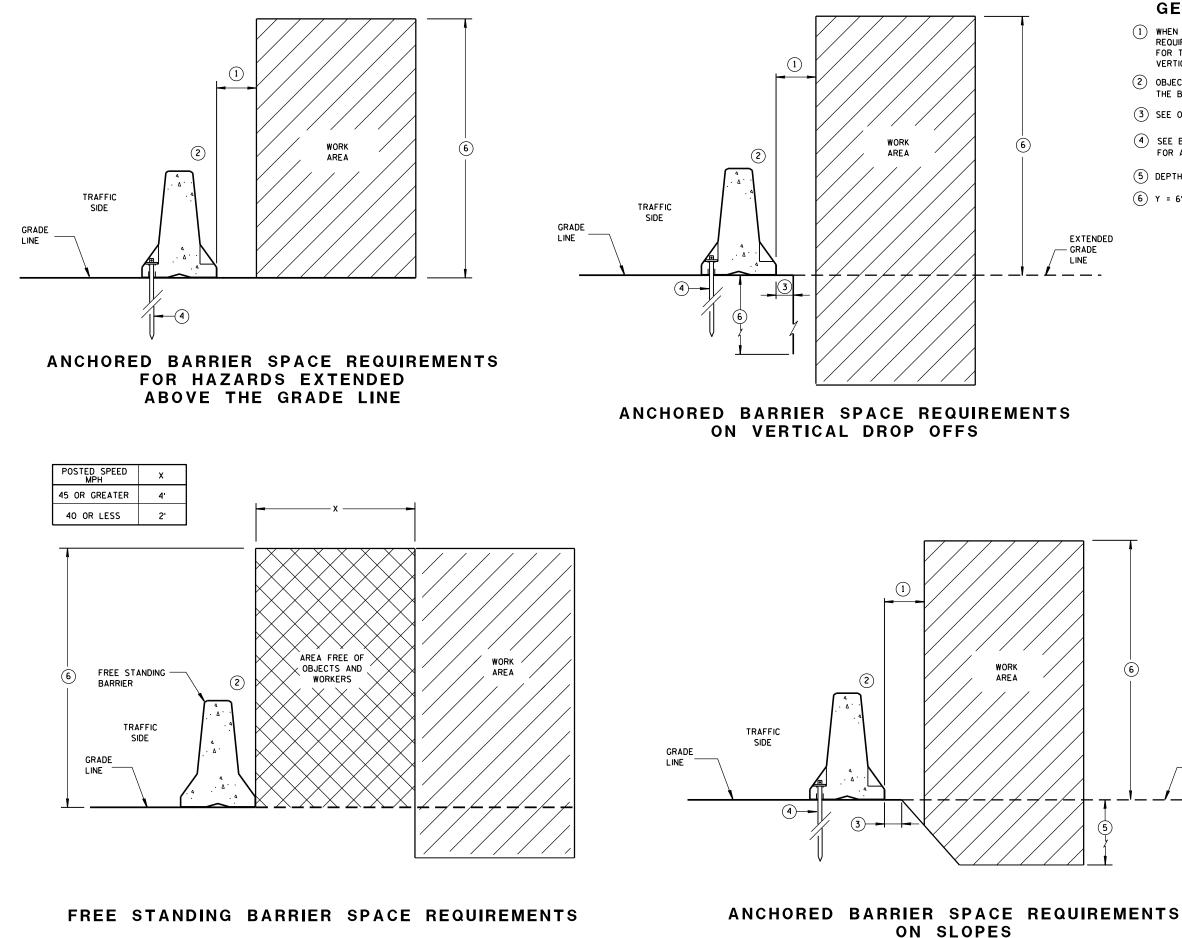
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# **GENERAL NOTES**

- 1 when objects extend above the grade, a minimum of 1 foot is required from back of barrier to object. See other details for FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR VERTICAL DROPS.
- (2) OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR LEANED AGAINST THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.
- (3) SEE OTHER DETAIL ON SHEET "D" FOR SPACE REQUIREMENTS.
- (4) SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR A STAKE DOWN FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.
- (5) DEPTH OF 3 FEET OR MORE.
- (6) Y = 6'-6".

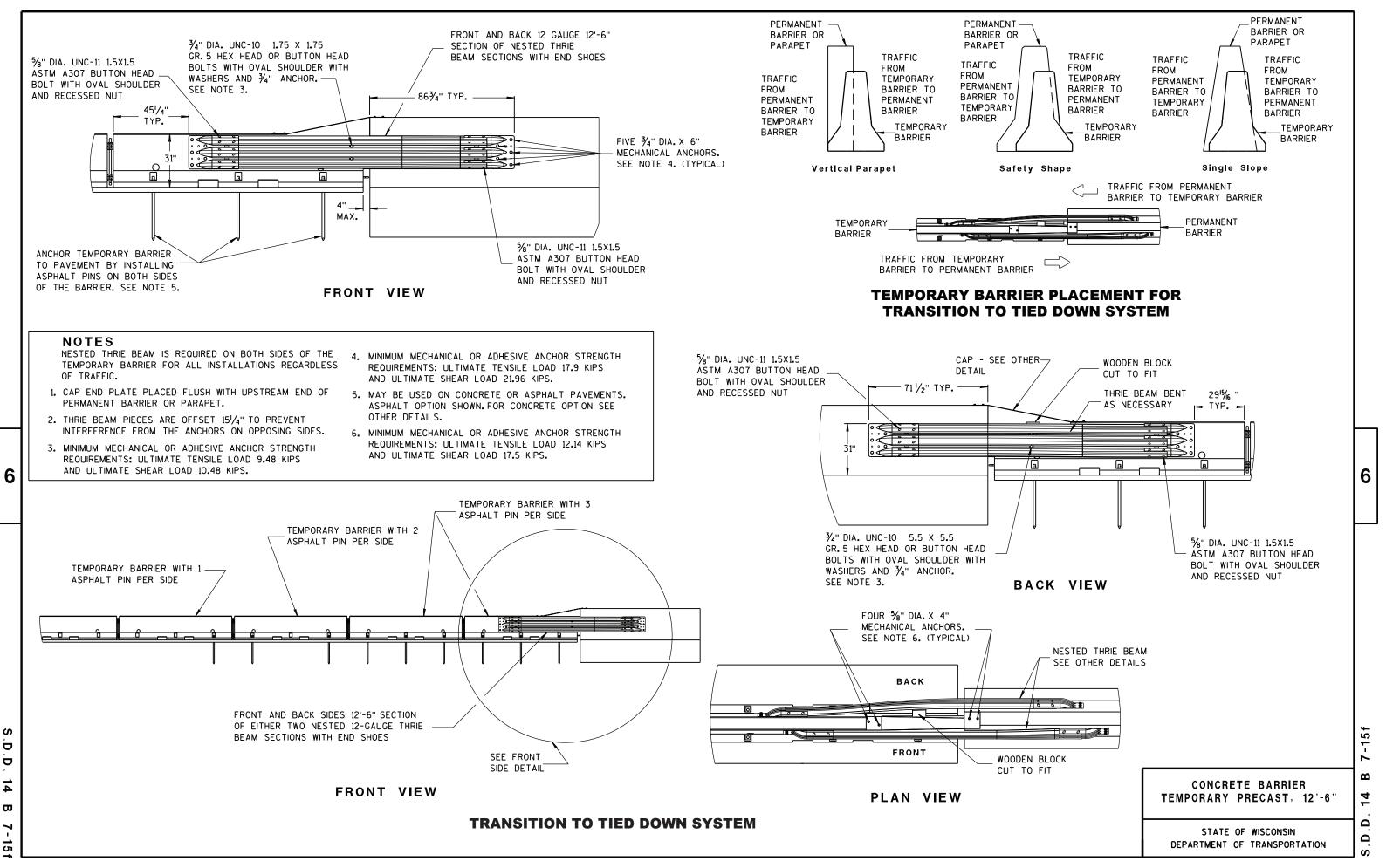
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## CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

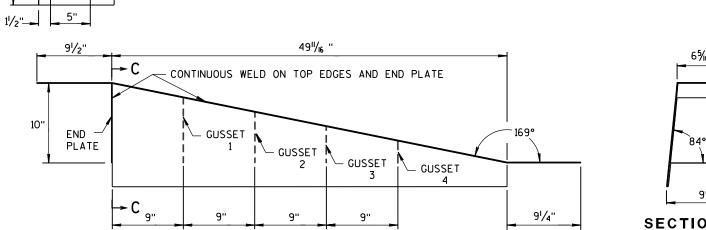
EXTENDED

GRADE LINE



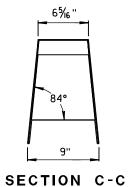
D 4 ω 15

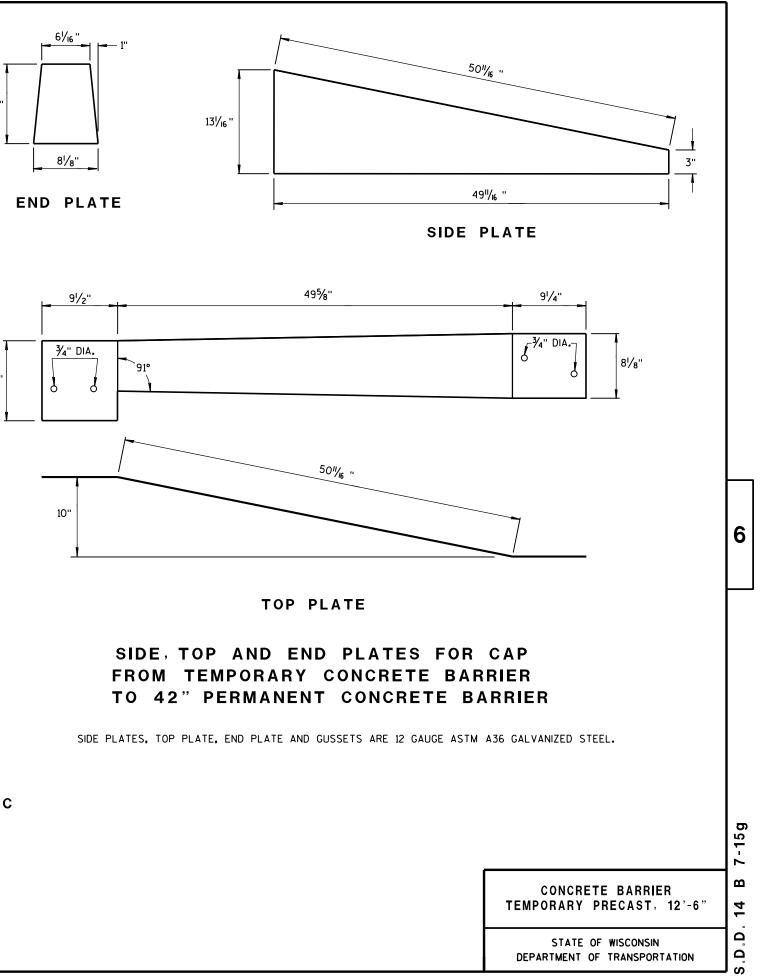
CAP DETAILS FOR TEMPORARY CONCRETE **BARRIER TO 42" PERMANENT CONCRETE BARRIER** 



GUSSET

- 3





GUSSETS

GUSSET

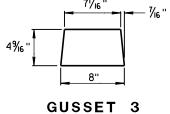
- 2

GUSSET

- 1

1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED

2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP



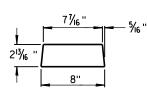
END PLATE

NOTES

ON THREE SIDES.

PLATE, END PLATE, AND GUSSETS.

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**GUSSET 4** 

GUSSET

- 4

6<sup>1</sup>/4"

0

— 11/2''

2''

31/16 ''

71⁄16 ''

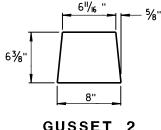
6‰"

8"

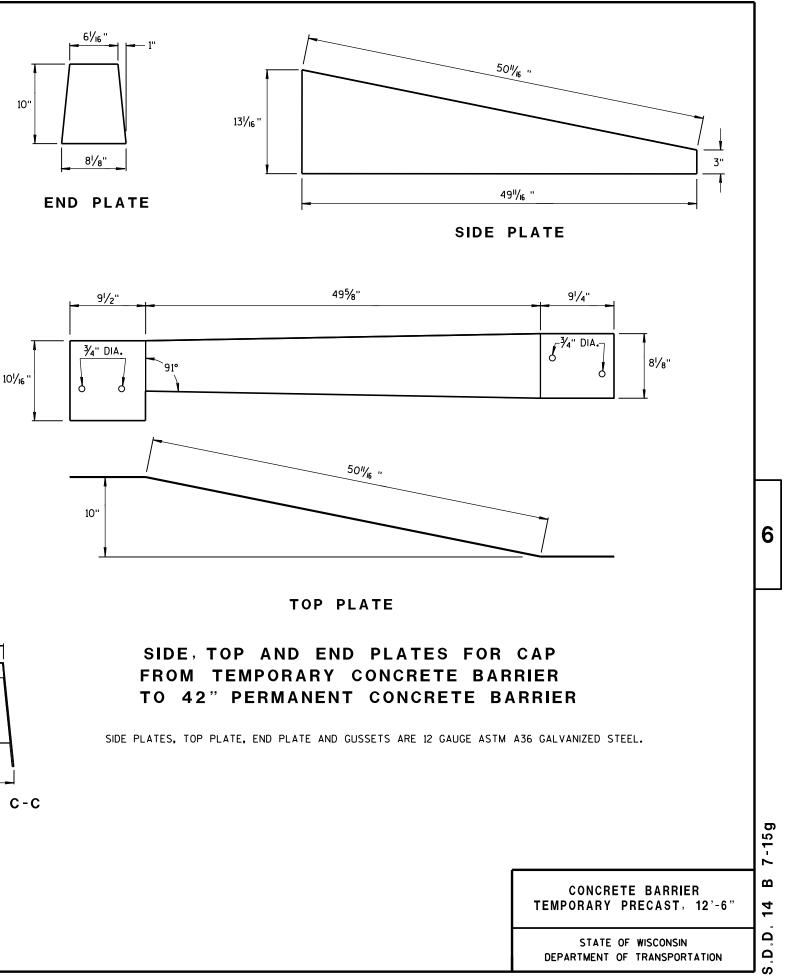
**GUSSET 1** 

8¾6'

- 13/16

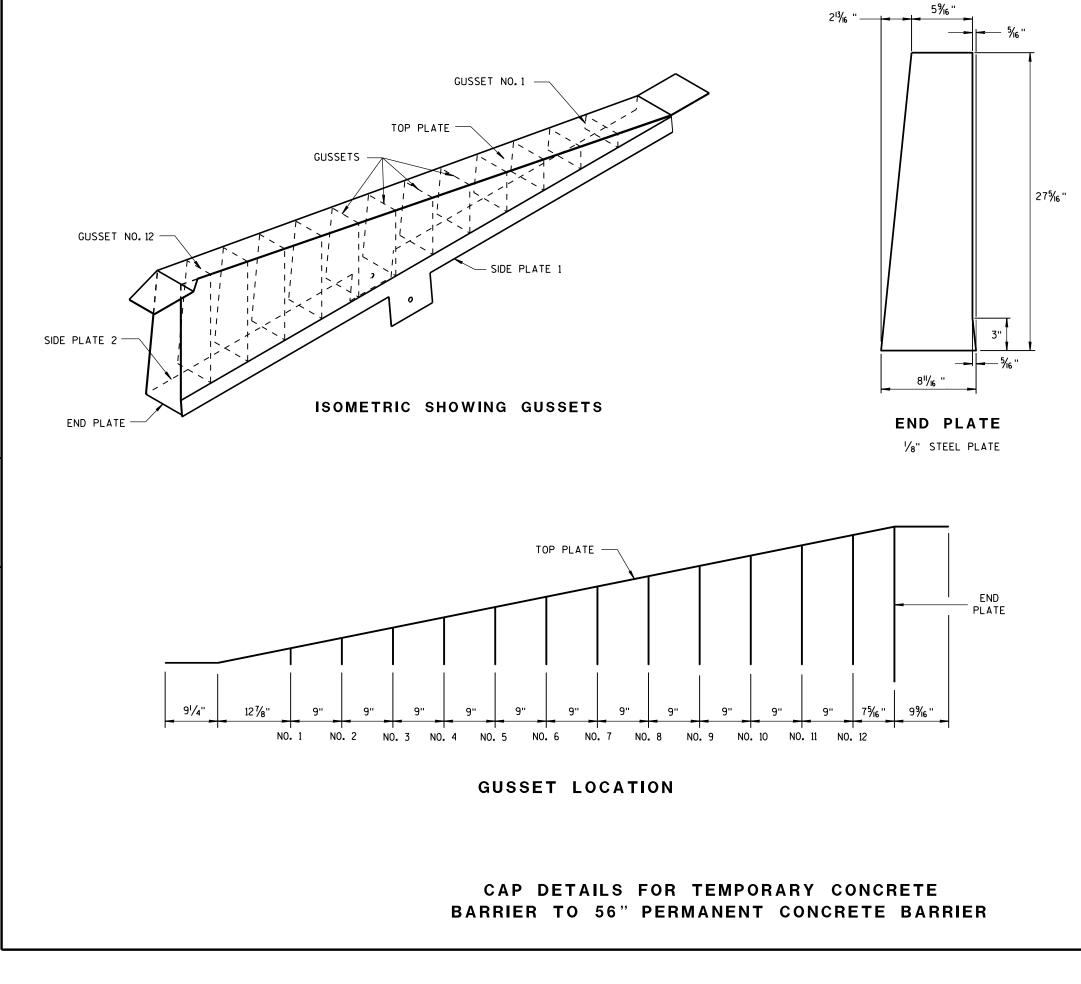


GUSSET 2



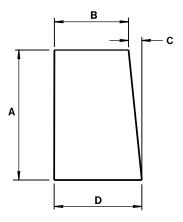
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4"



.D.D. 14 B 7-15h

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# **GUSSETS 1 - 12**

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				6
GUSSET NO.	А	В	с	D
1	21⁄8"	7¾"	1⁄4"	8
2	4"/ <sub>16</sub> "	7%6 ''	1/2"	8
3	6 <sup>l</sup> /2"	7 <b>3⁄</b> 8"	"/16 "	8¼ <sub>16</sub> "
4	85⁄16 ''	7¾6 ''	7⁄8"	8¼ <sub>6</sub> "
5	10 <sup>1</sup> /8''	7"	1 1/ <sub>16</sub> "	8 <sup> </sup> / <sub>16</sub> "
6	11'5%6 ''	6 <sup>13</sup> //6 ''	1 1⁄4"	8 <sup> </sup> / <sub>16</sub> ''
7	13¾"	6 <b>5⁄</b> 8''	1 7⁄16 ''	8¼ <sub>6</sub> "
8	15%6 "	6¾6 "	1 %6 "	81⁄16 ''
9	17 <b>3⁄</b> 8''	6 <sup>1</sup> /4"	1 13/16 ''	8¼ <sub>6</sub> "
10	193/6 ''	6¼ <sub>6</sub> "	1 <sup>15</sup> /16 ''	8¼ <sub>6</sub> ''
11	21"	5 7⁄8"	2¾6 "	8 <sup> </sup> / <sub>16</sub> ''
12	22 <sup>13</sup> ⁄16 ''	5 <sup>11</sup> /16 ''	25⁄16 ''	8¼ <sub>6</sub> "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

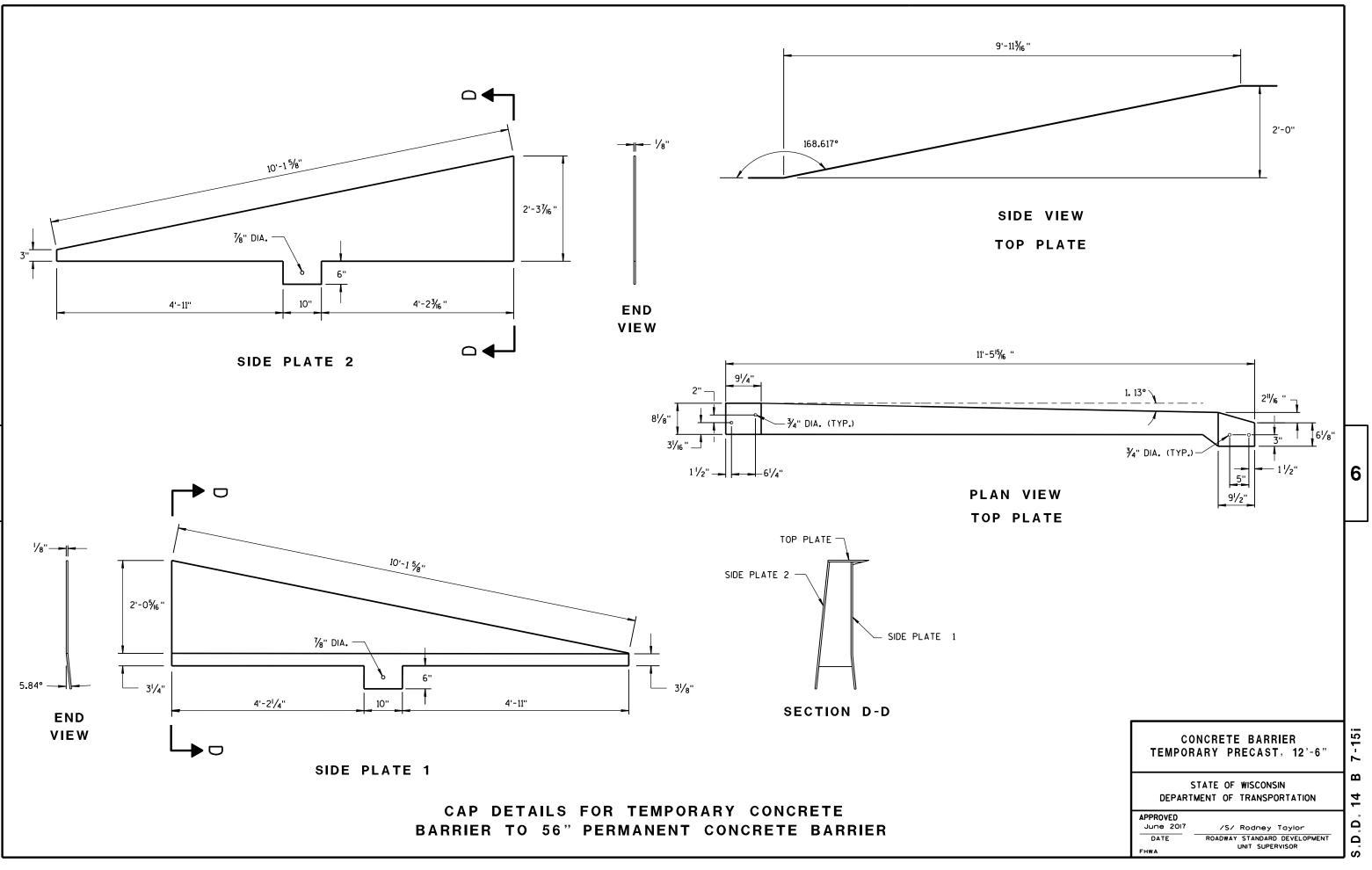
GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

D.D.14 B 7-15h

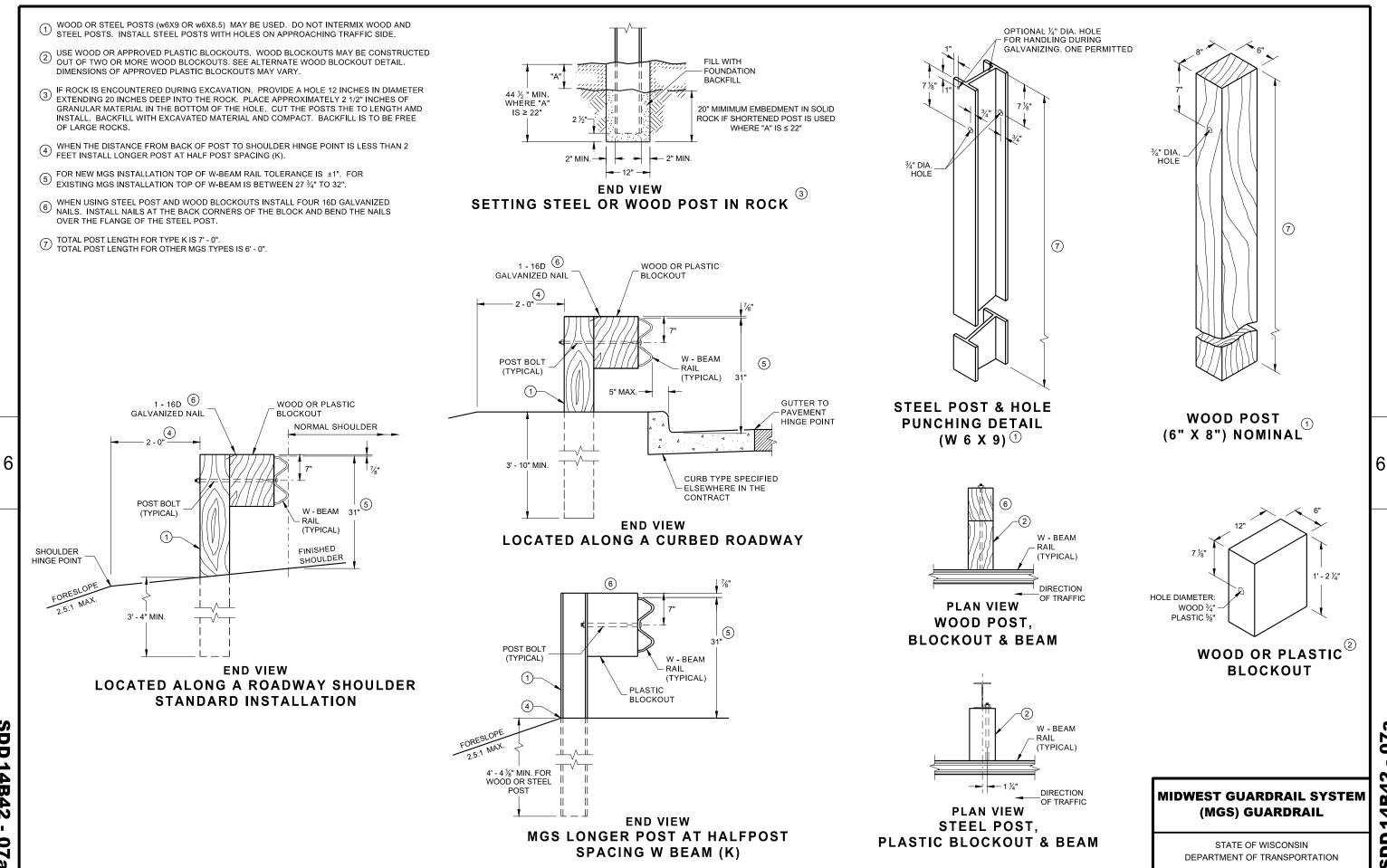
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CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



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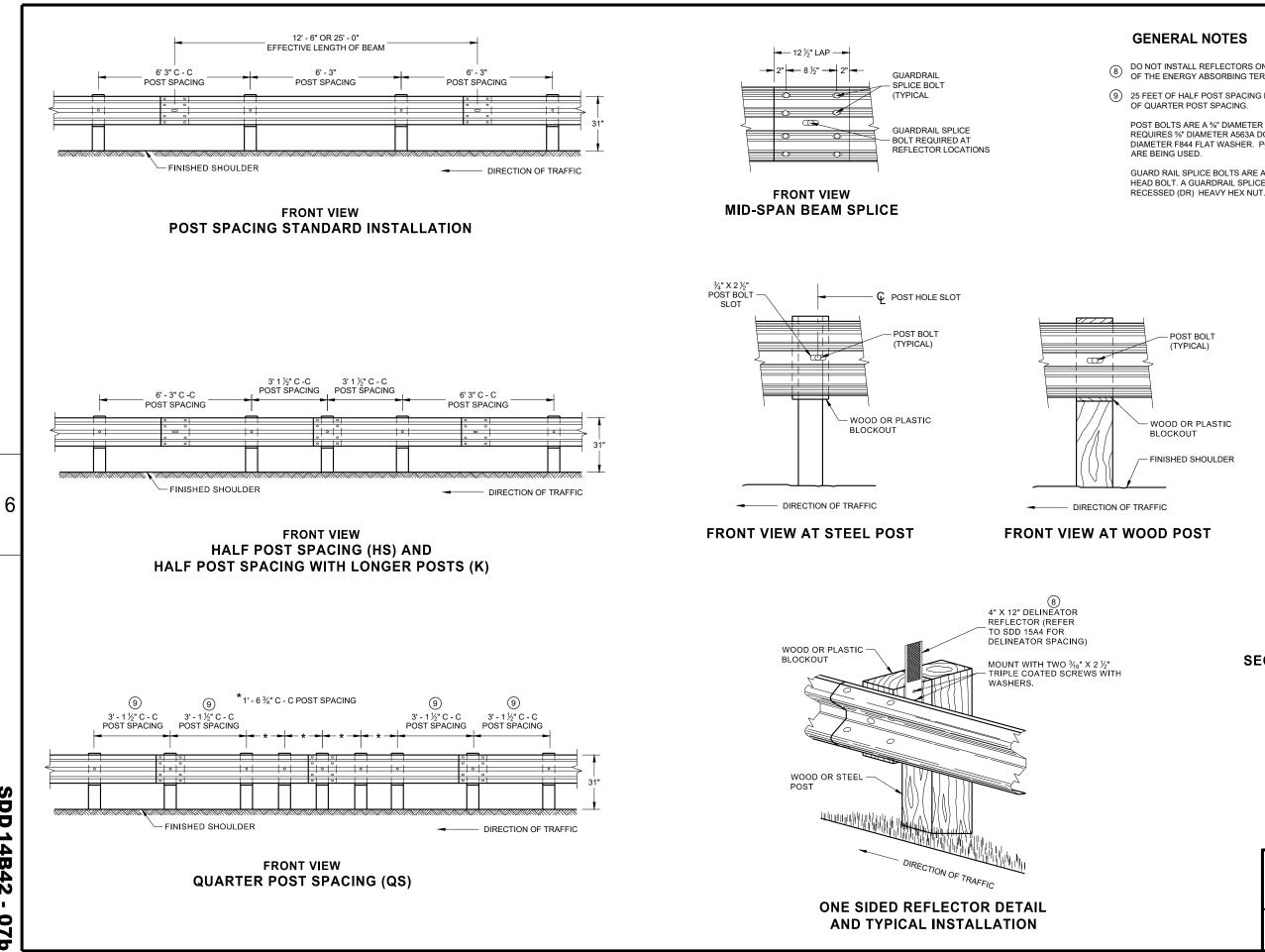
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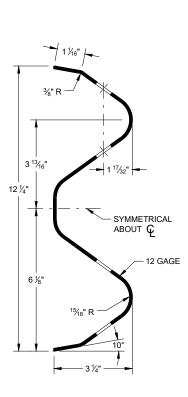
**SDD 14B42** 0 ð

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

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

POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS

GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5%" DIAMETER A563A DOUBLE



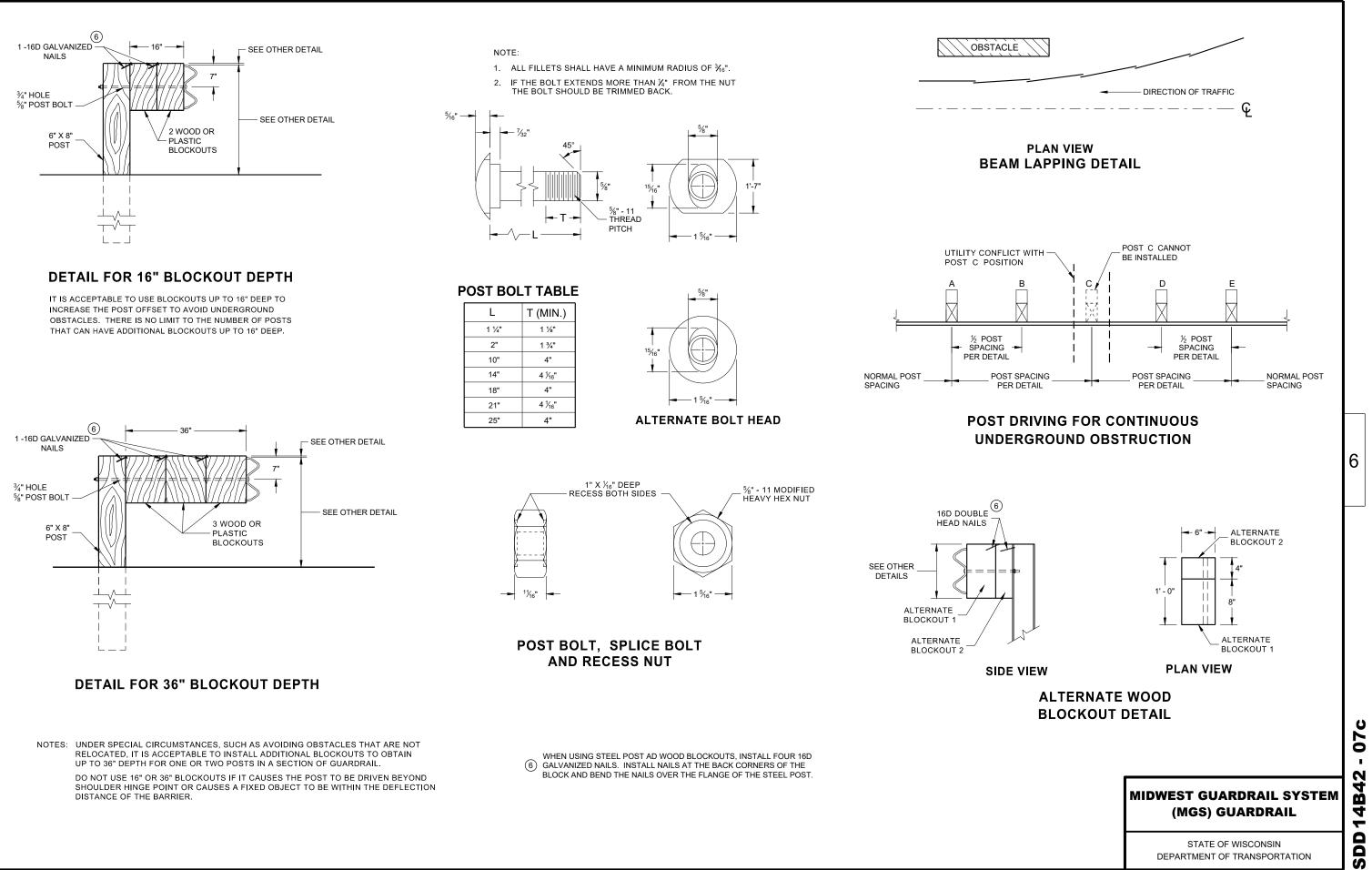
SECTION THRU W-BEAM RAIL

# 07b . N 4 à 4 ~ SDD

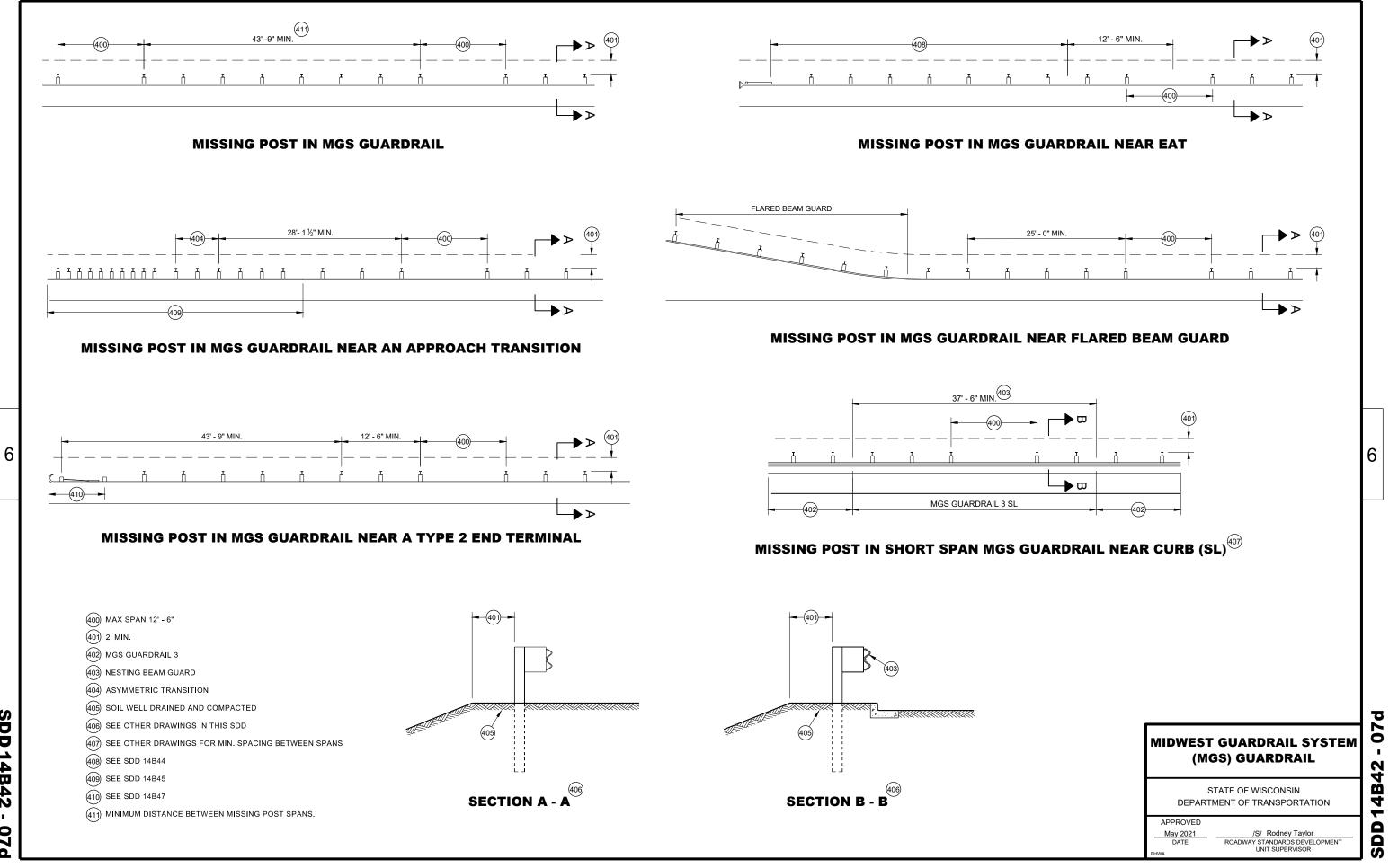
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# **MIDWEST GUARDRAIL SYSTEM** (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



**SDD 14B42** 0 **n** 



**SDD 14B42** 07d

## **GENERAL NOTES**

- (A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.
- (B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED
- © DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.
- D ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.
- E HARDWARE MAY VARY BETWEEN MANUFACTURER SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

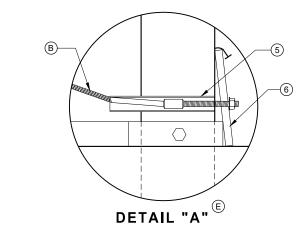
SEE SDD 14B42 FOR MORE INFORMATION.

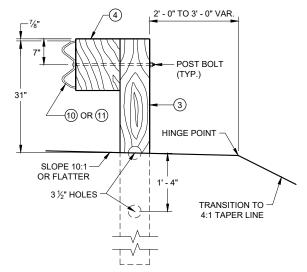
★ DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

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

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

THE CENTER OF THE UPPER 3  $\frac{1}{2}$ " DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.

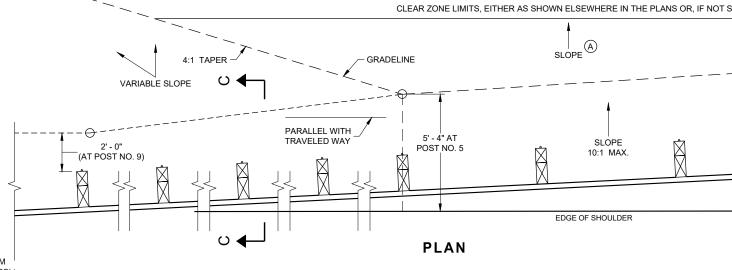


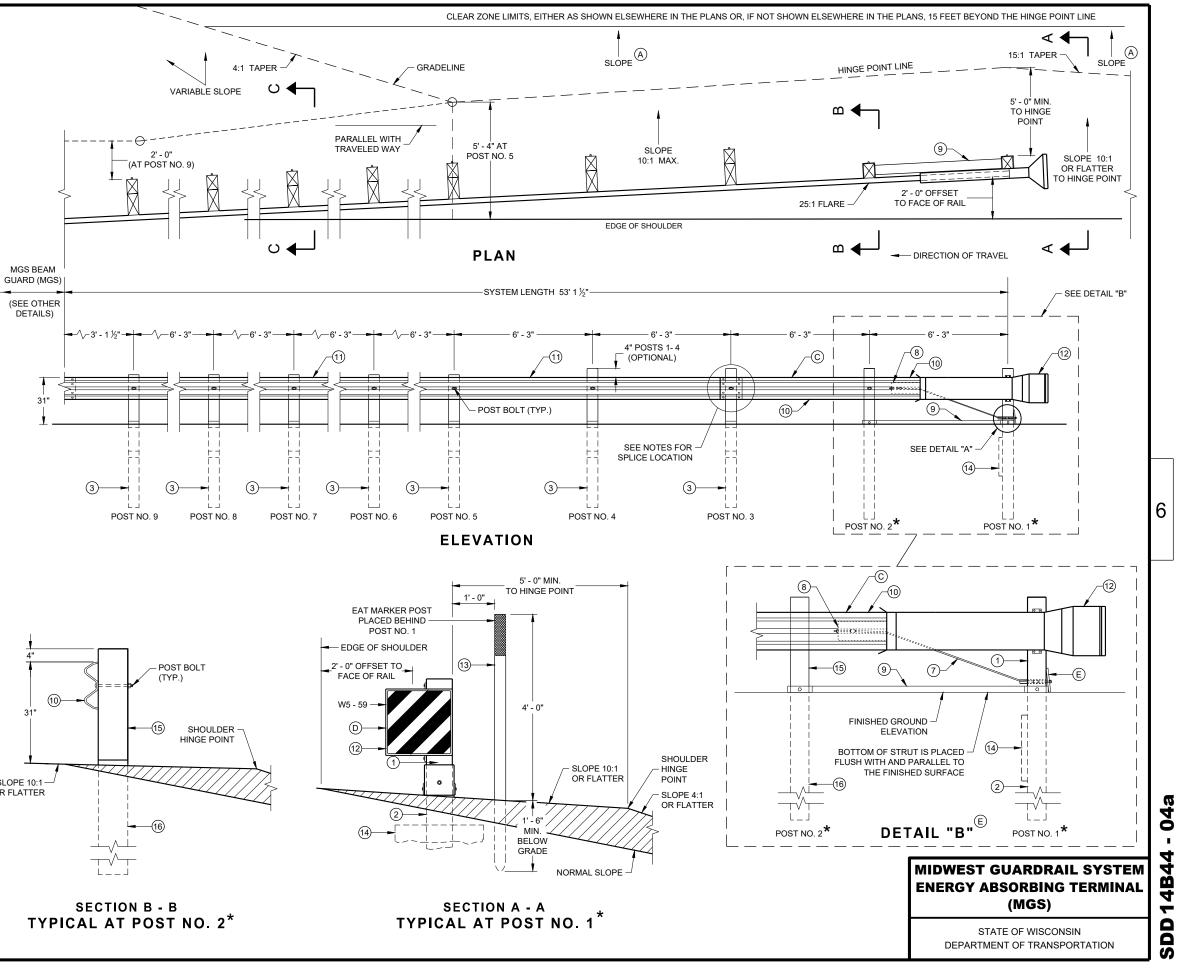


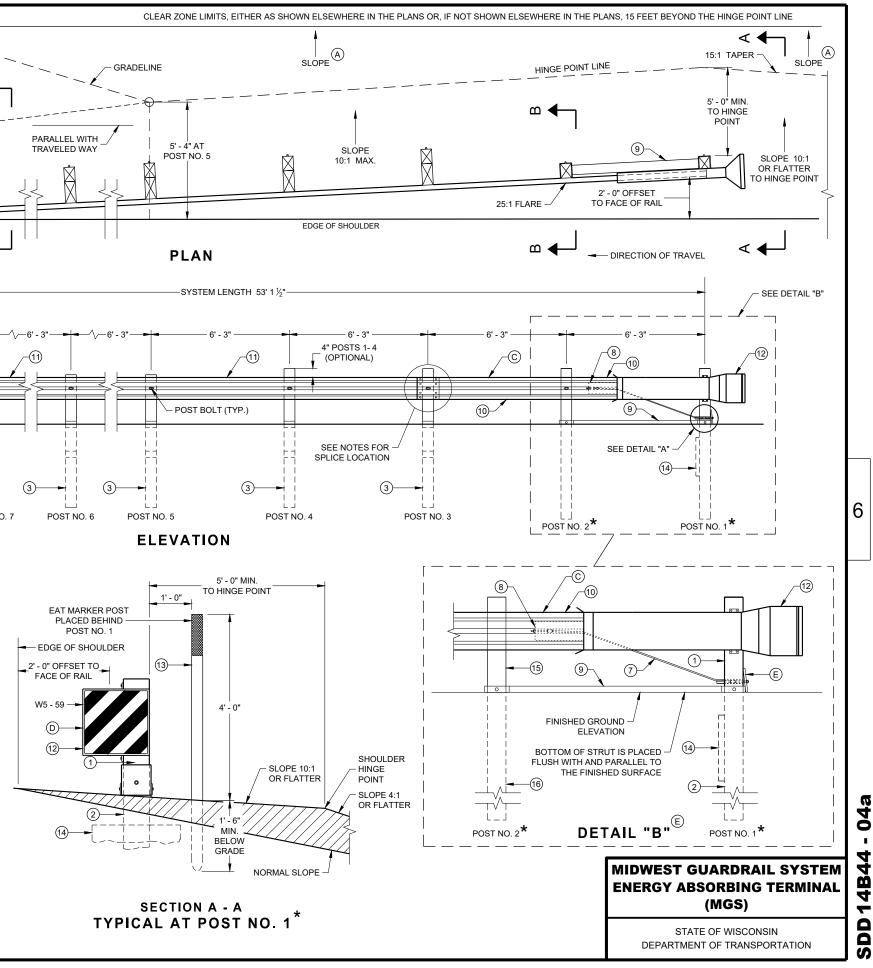
31 -(15) SHOULDER HINGE POINT SLOPE 10:1-OR FLATTER

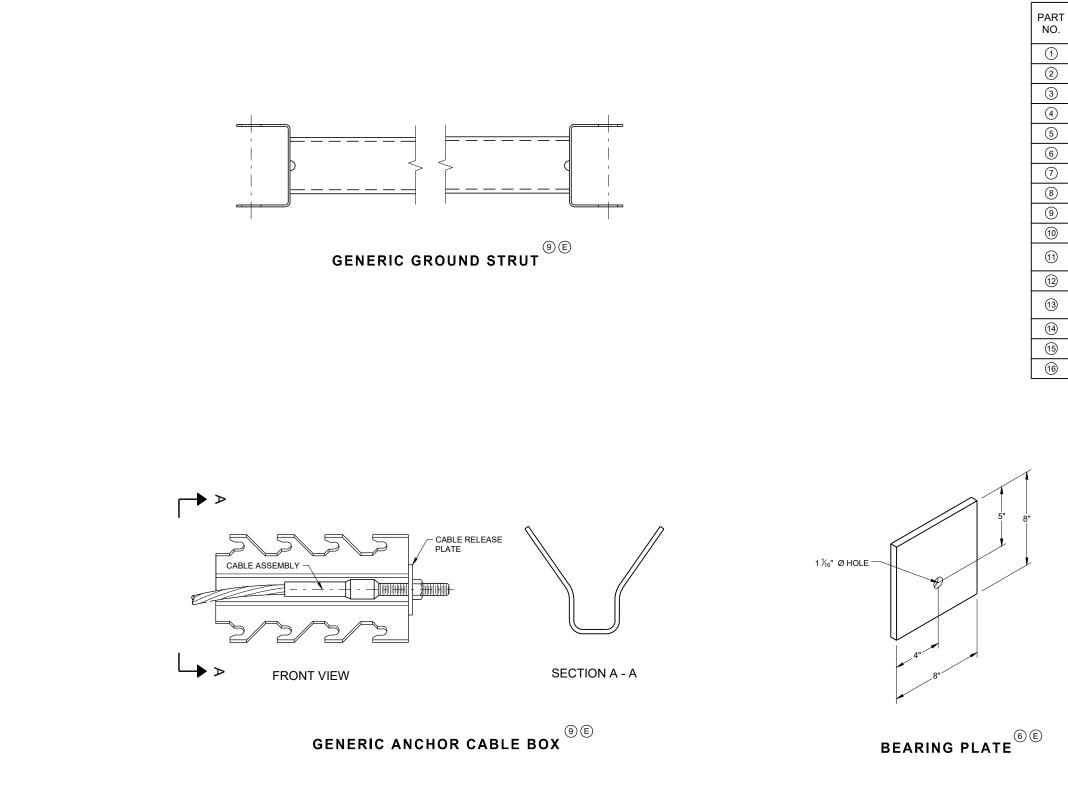
SECTION C - C **TYPICAL AT POST NOS. 3 - 9** 

SECTION B - B TYPICAL AT POST NO. 2\*









# BILL OF MATERIALS

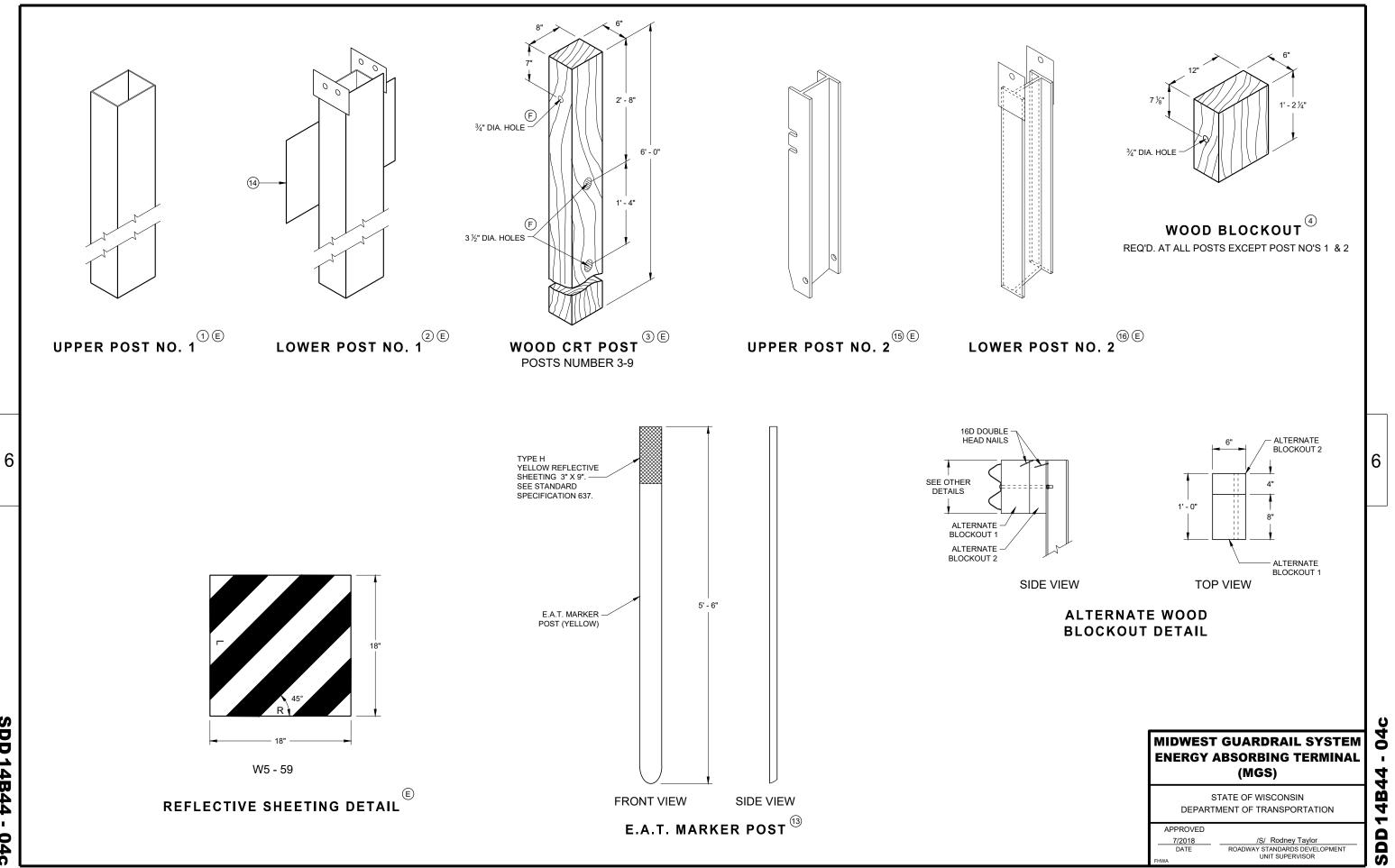
DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
UPPER POST NO. 1 6" X 6" TUBE
LOWER POST NO. 1
WOOD CRT
WOOD BLOCKOUT
PIPE SLEEVE
BEARING PLATE
BCT CABLE ASSEMBLY
ANCHOR CABLE BOX
GROUND STRUT
PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
IMPACT HEAD
EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
SOIL PLATE
UPPER POST NO. 2
LOWER POST NO. 2

6

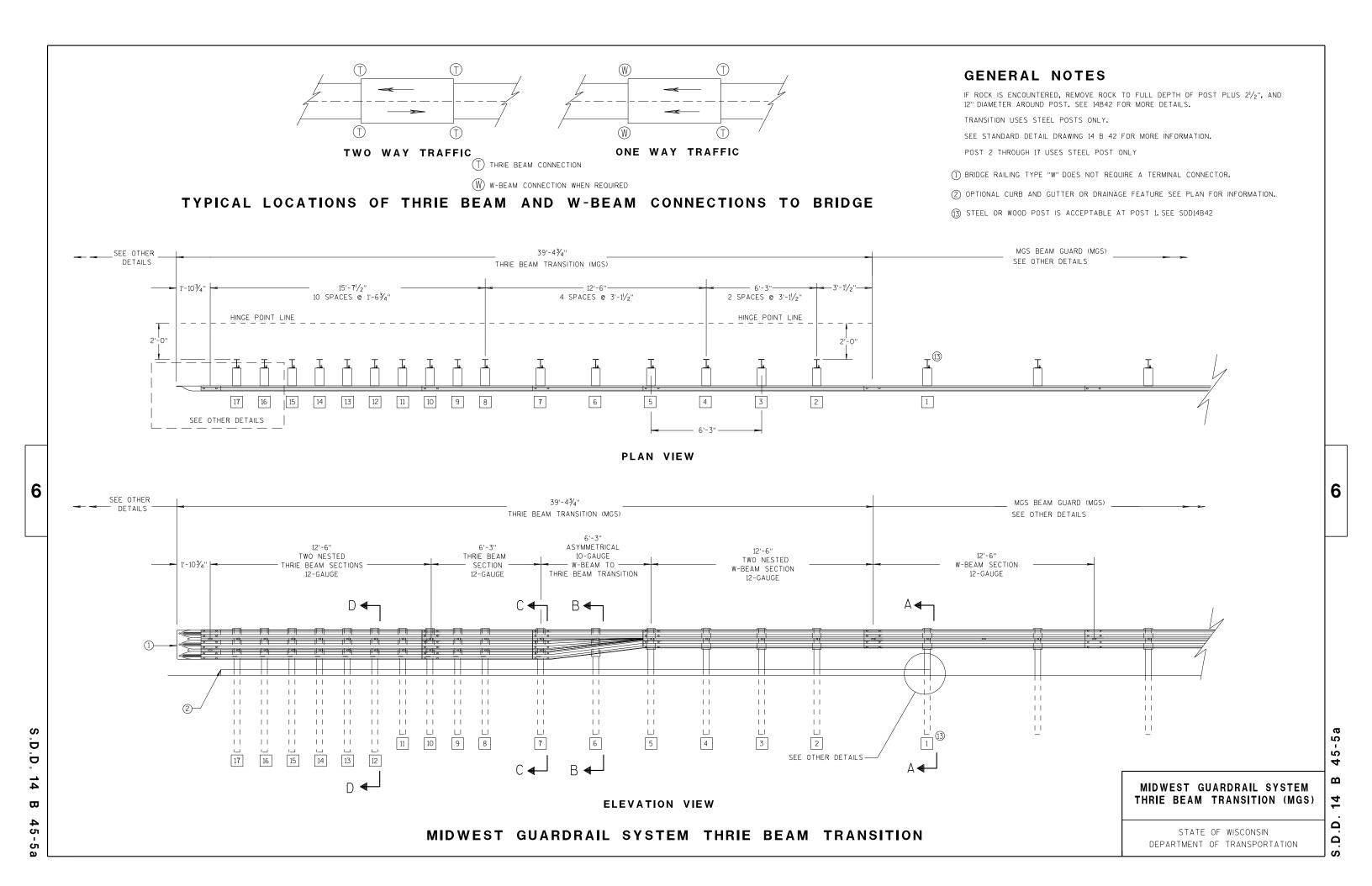
# SDD14B44 - 04b

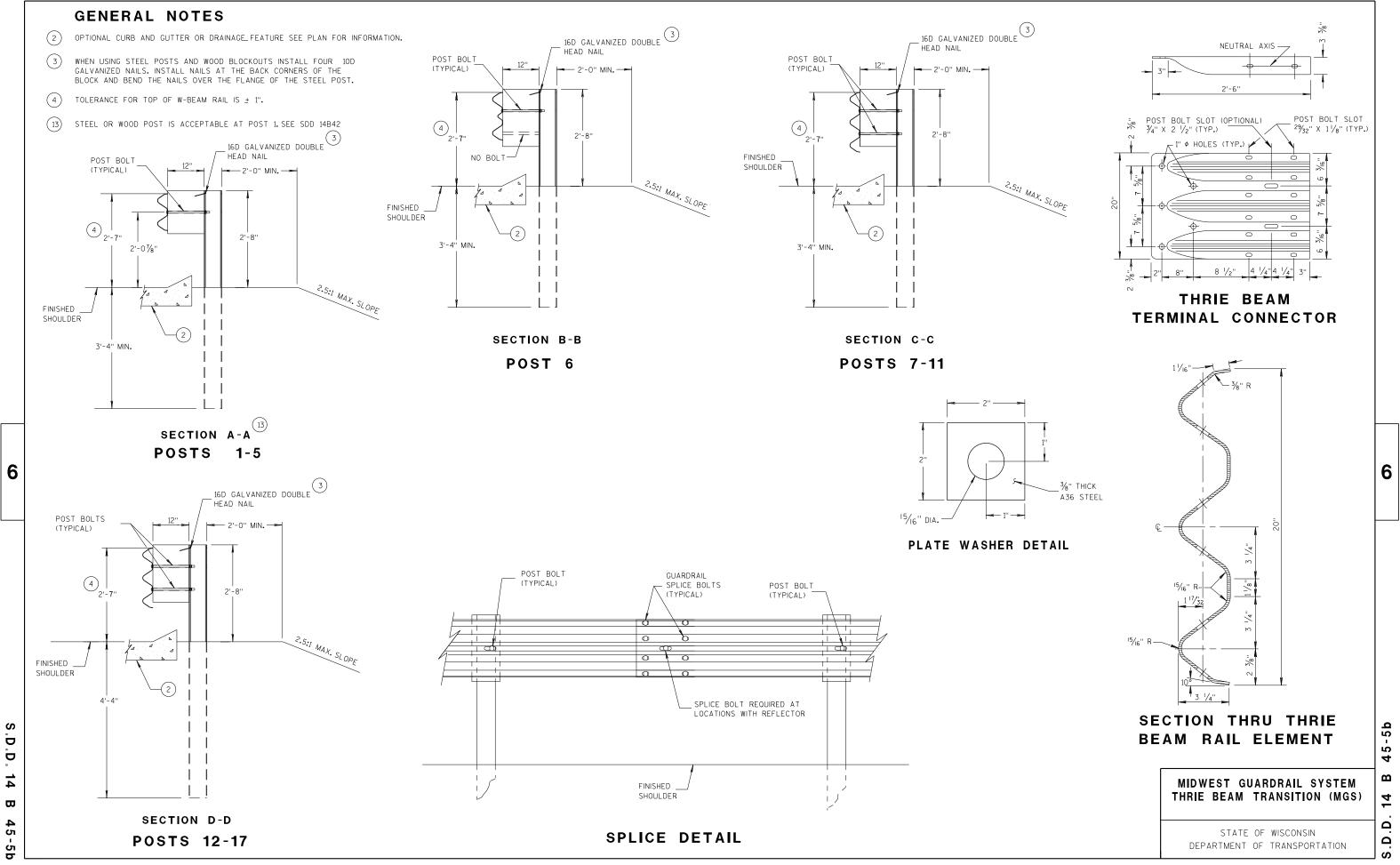
# MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



SDD 14B44 - 04c



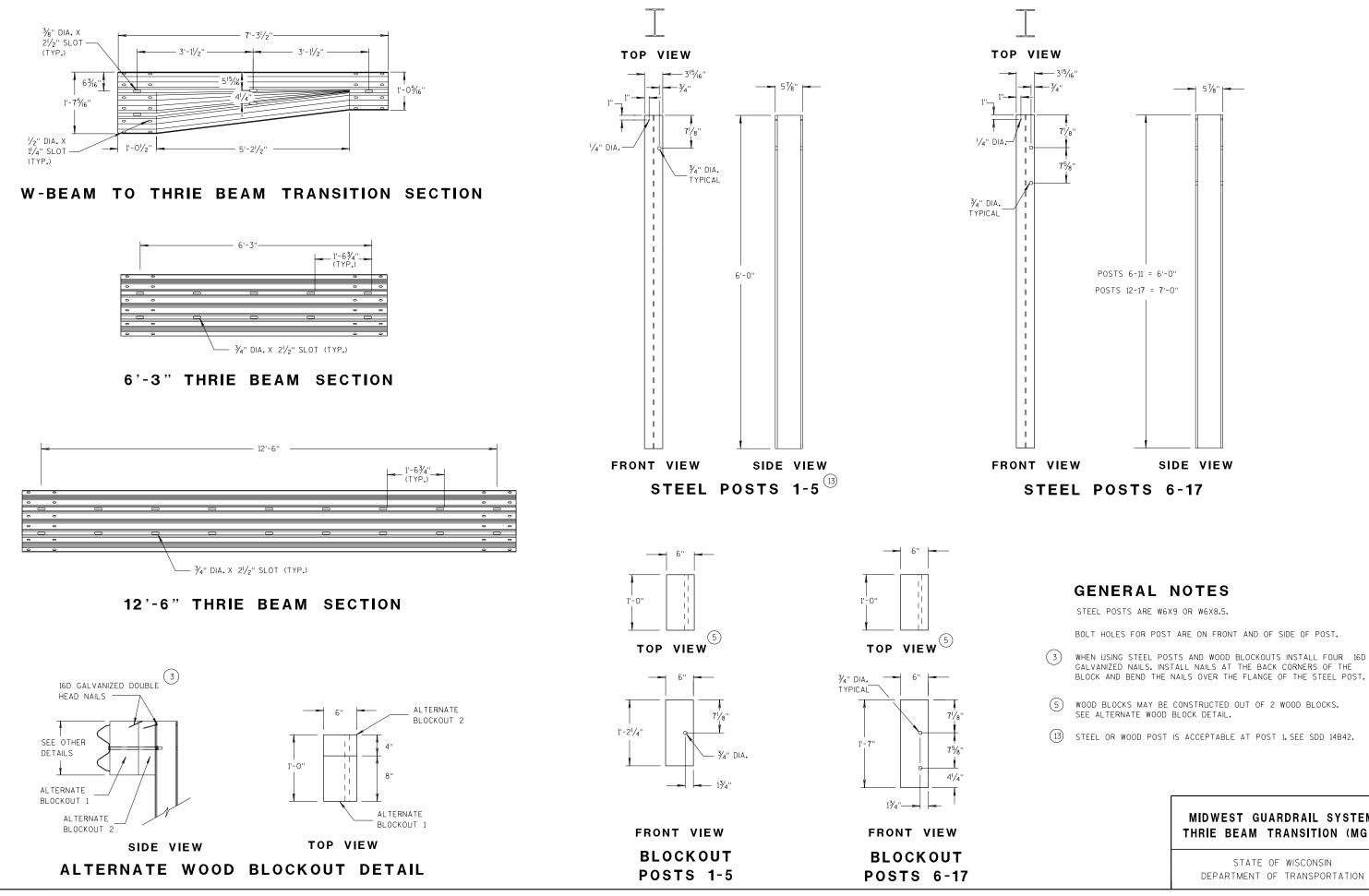


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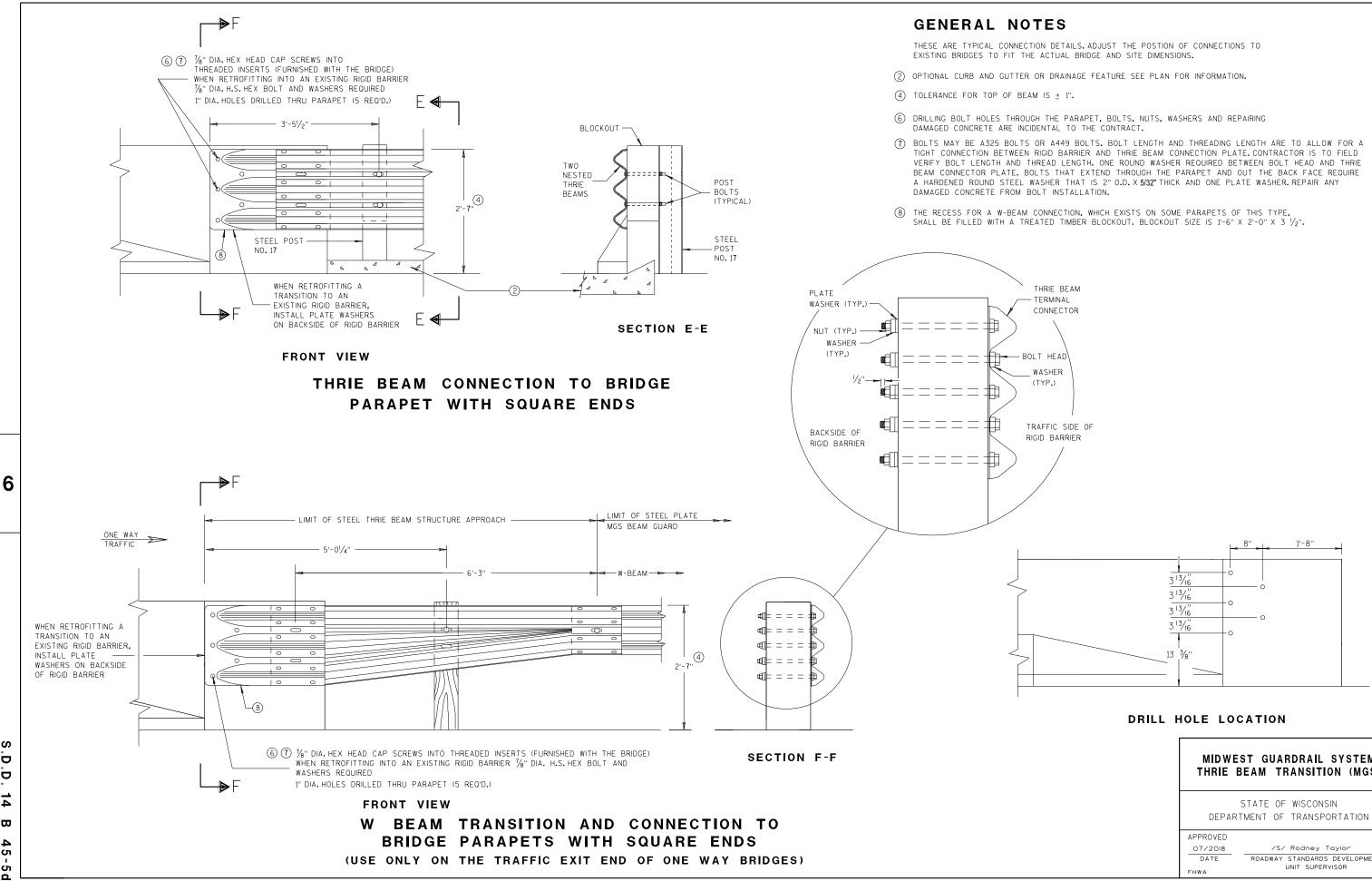
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### MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

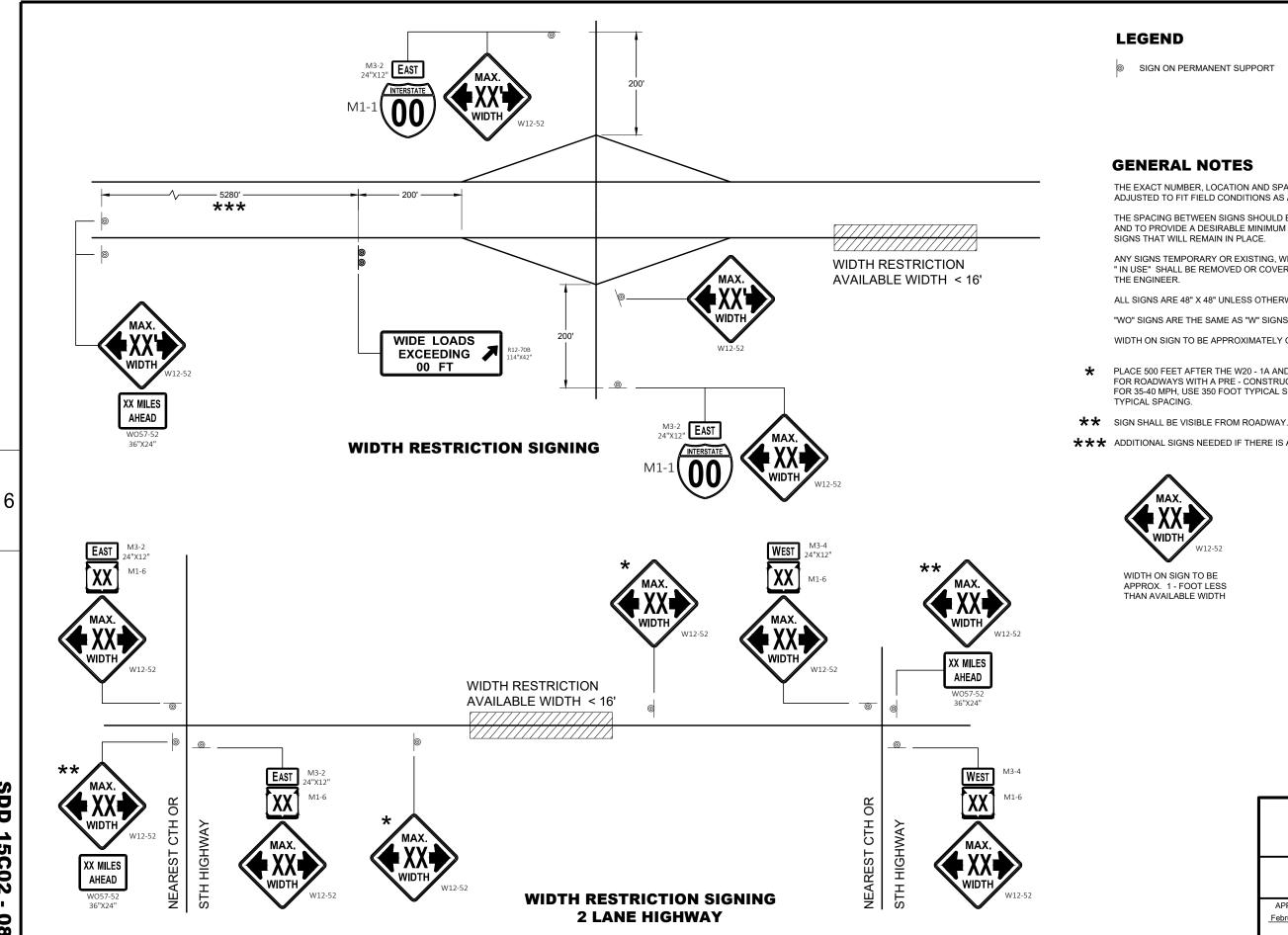


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ES
DETAILS. ADJUST THE POSTION OF CONNECTIONS TO TUAL BRIDGE AND SITE DIMENSIONS.
DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
5 ± 1".
HE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING FAL TO THE CONTRACT.
A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A D BARRIER AND THRIE BEAM CONNECTION PLATE.CONTRACTOR IS TO FIELD AD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE HER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER.REPAIR ANY INSTALLATION.
NECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, D TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 $V_2$ ".
IE BEAM MINAL NECTOR HEAD HER ?.) FIC SIDE OF BARRIER

	ST GUARDRAIL SYSTEM EAM TRANSITION (MGS)	45-5d
	STATE OF WISCONSIN	<b>_</b> 0
DEPART	MENT OF TRANSPORTATION	4
APPROVED		
07/2018	/S/ Rodney Taylor	
DATE	ROADWAY STANDARDS DEVELOPMENT	
FHWA	UNIT SUPERVISOR	م ا



SDD **15C02** 08f

SIGN ON PERMANENT SUPPORT

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS 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 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

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

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

WIDTH ON SIGN TO BE APPROXIMATELY ONE FOOT LESS THAN AVAILABLE WIDTH.

PLACE 500 FEET AFTER THE W20 - 1A AND 500 FEET BEFORE ADDITIONAL SIGNS FOR ROADWAYS WITH A PRE - CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200 FOOT

**\*\*\*** ADDITIONAL SIGNS NEEDED IF THERE IS AN ON RAMP BETWEEN SIGNS.

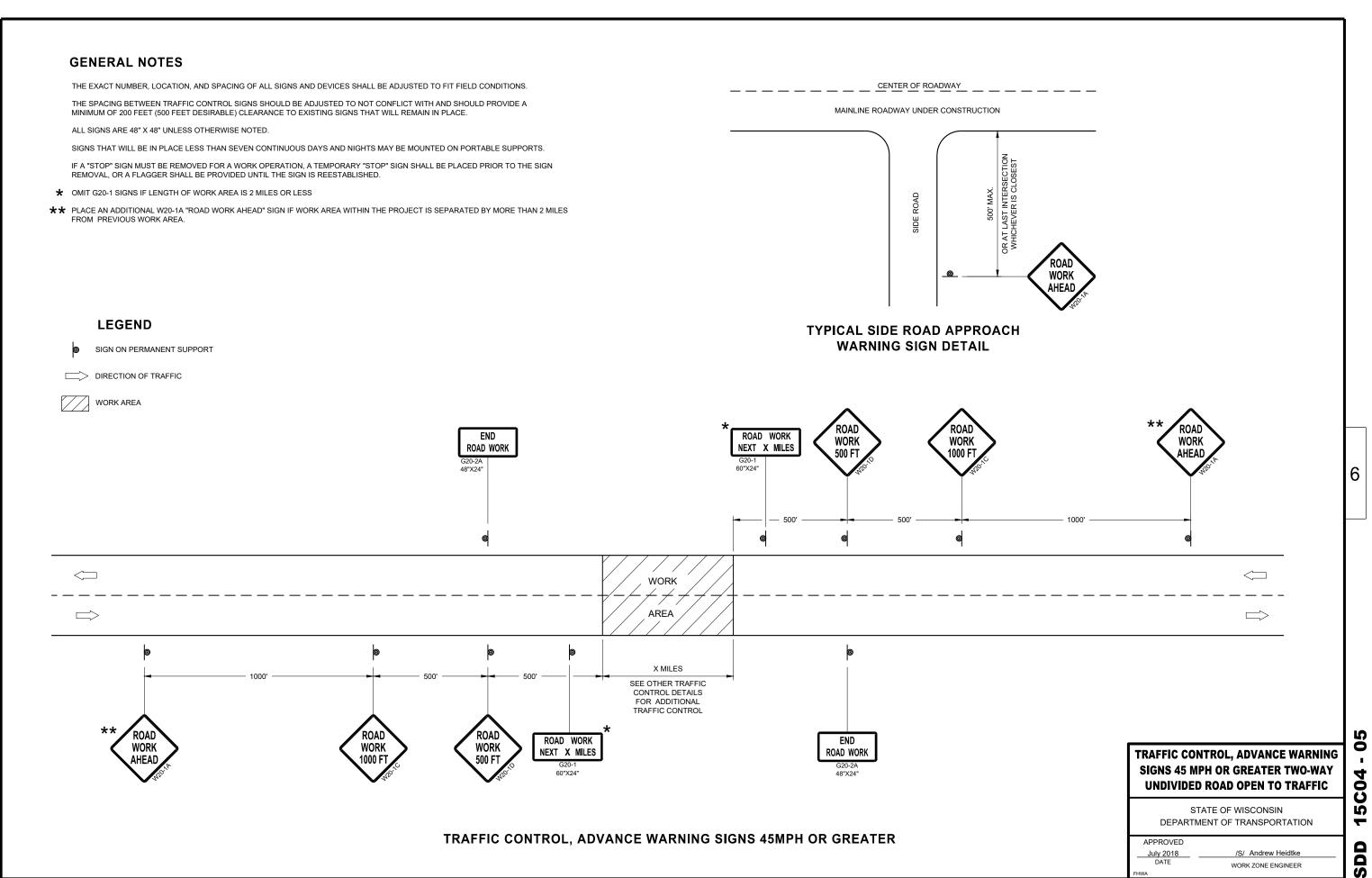
## **ADVANCED WIDTH RESTRICTION SIGNING**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2020 DATE

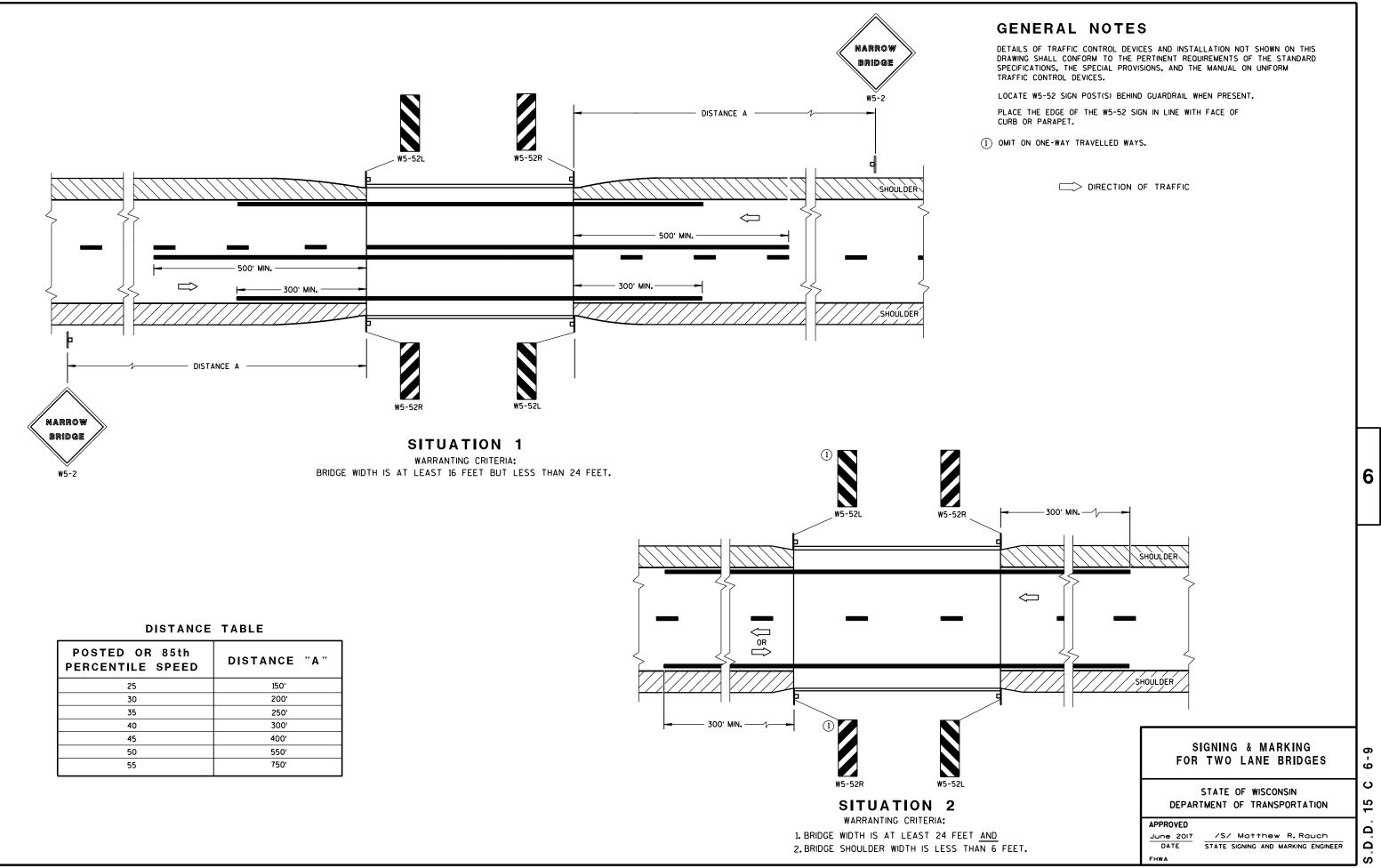
/S/ Andrew Heidtke WORK ZONE ENGINEER 80 . N ÖÜ S ~ ۵ 

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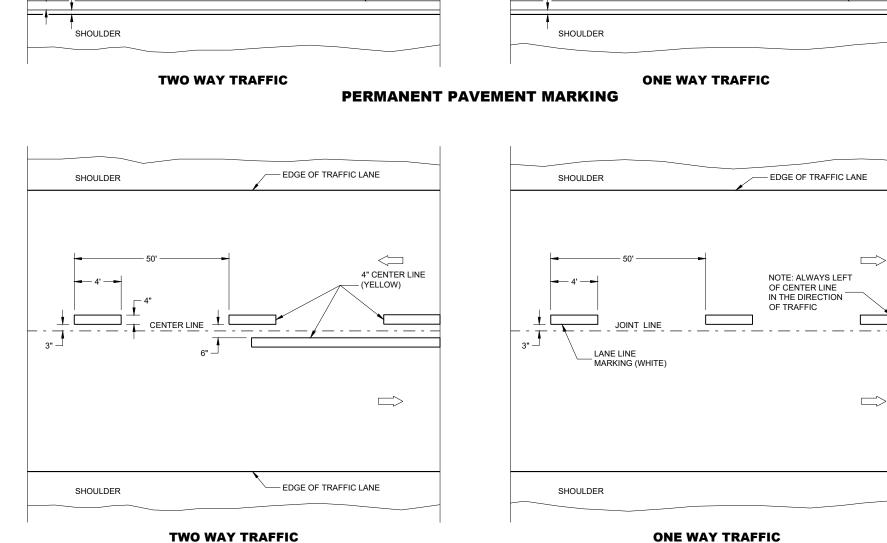
**15C04** 



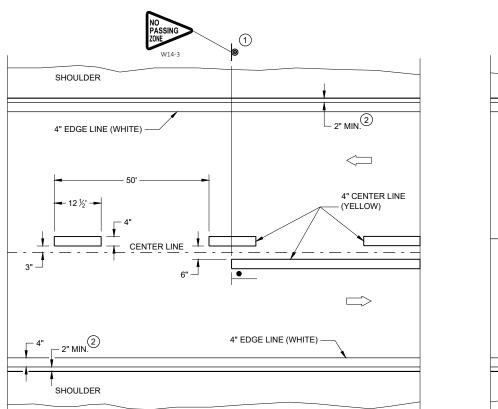
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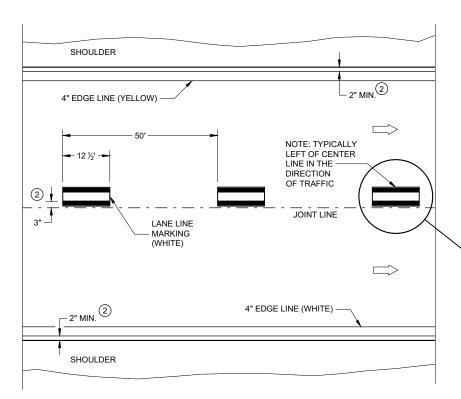






**TEMPORARY PAVEMENT MARKING** 







6

1 LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

"T" MARKING

DIRECTION OF TRAFFIC

-1½

4" WHITE 11/2"

 $\Box$ 

# **GENERAL NOTES**

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

# LEGEND

SIGN ON PERMANENT SUPPORT

" BLACK CONTRAST – ½" MAX. GROOVE		
- ½" MAX. GROOVE ' BLACK CONTRAST	JOINT LINE	

# LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2020 DATE

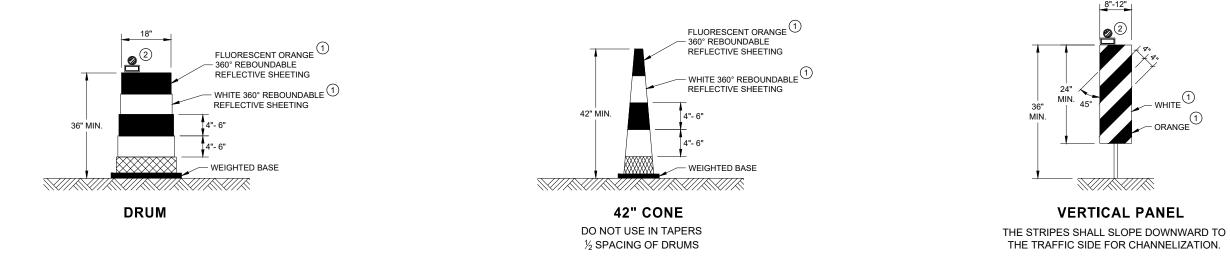
/S/ Matthew Rauch STATEWIDE SIGNING AND MARKING ENGINEER

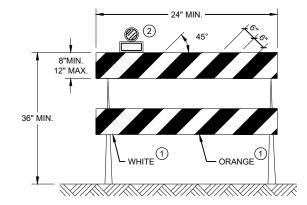
6

0 N . **C08** Ň ~ SDD

### **GENERAL NOTES**

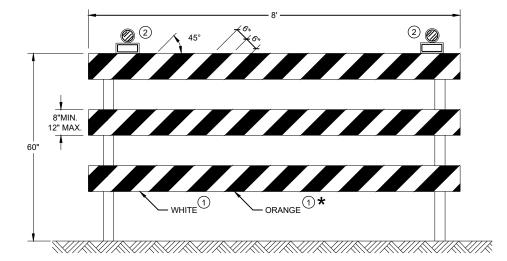
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





**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.

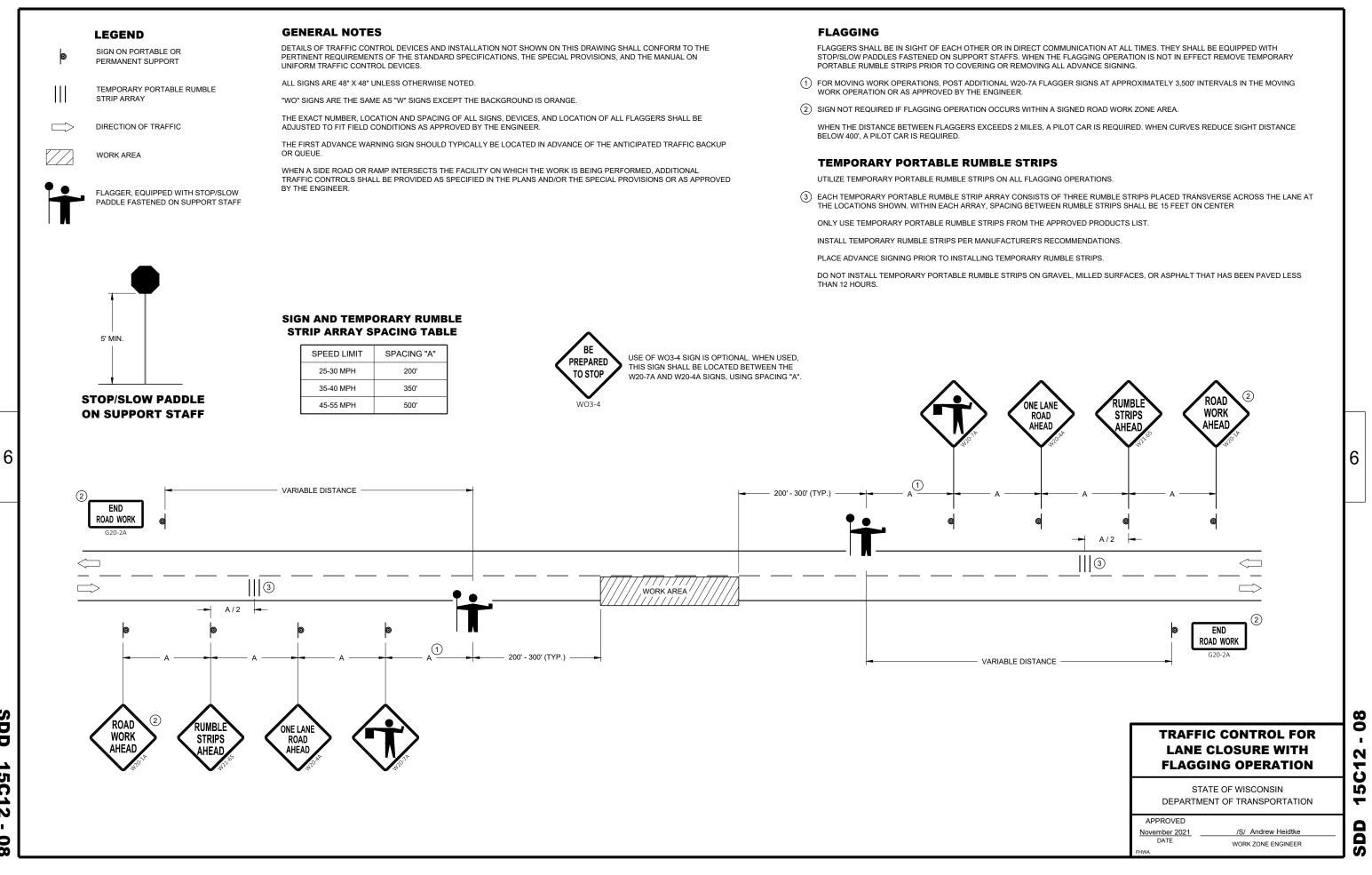
Ω **60** . ~ ~ 0 Ň ~ ົ

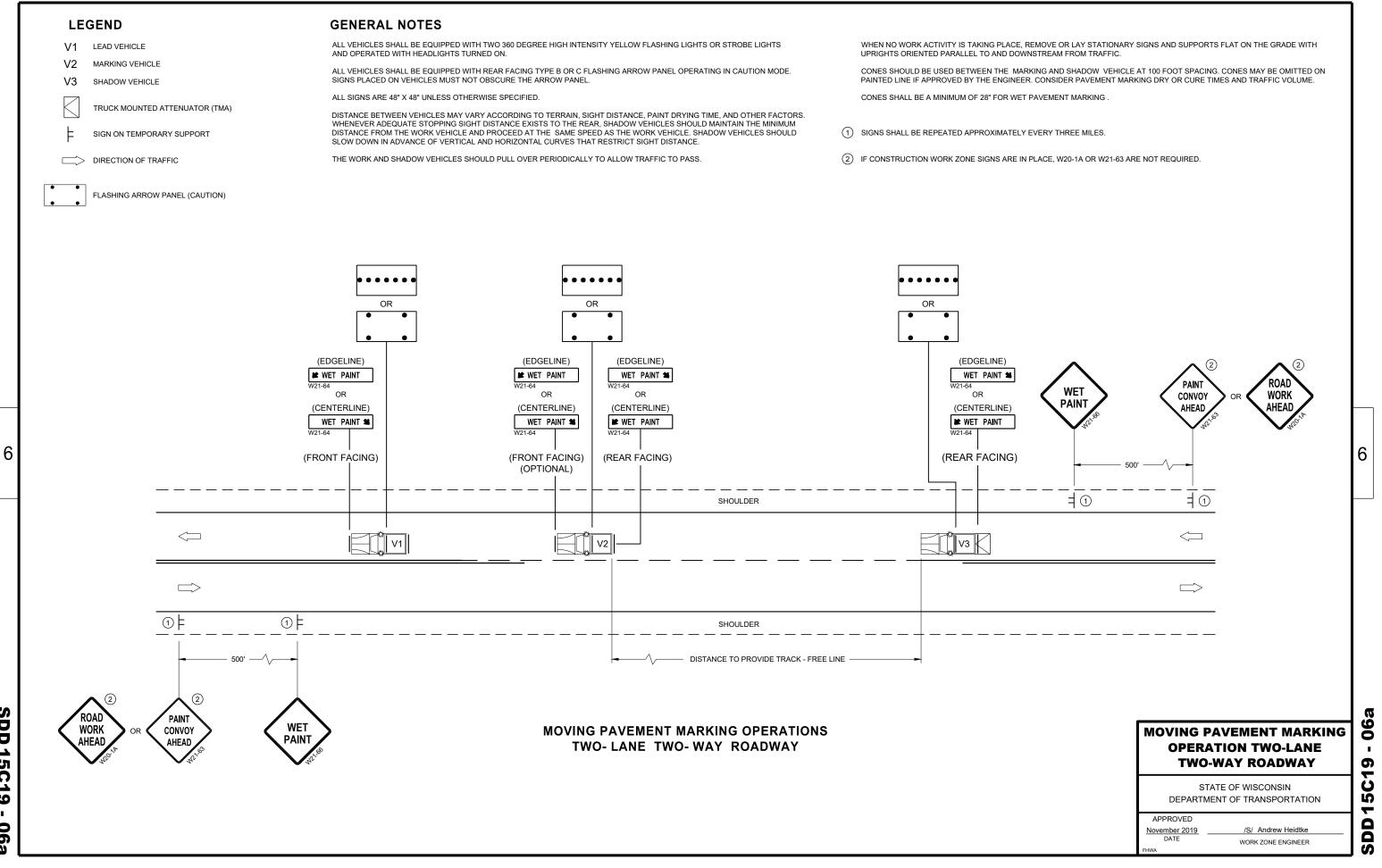
# **CHANNELIZING DEVICES DRUMS, CONES, BARRICADES** AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

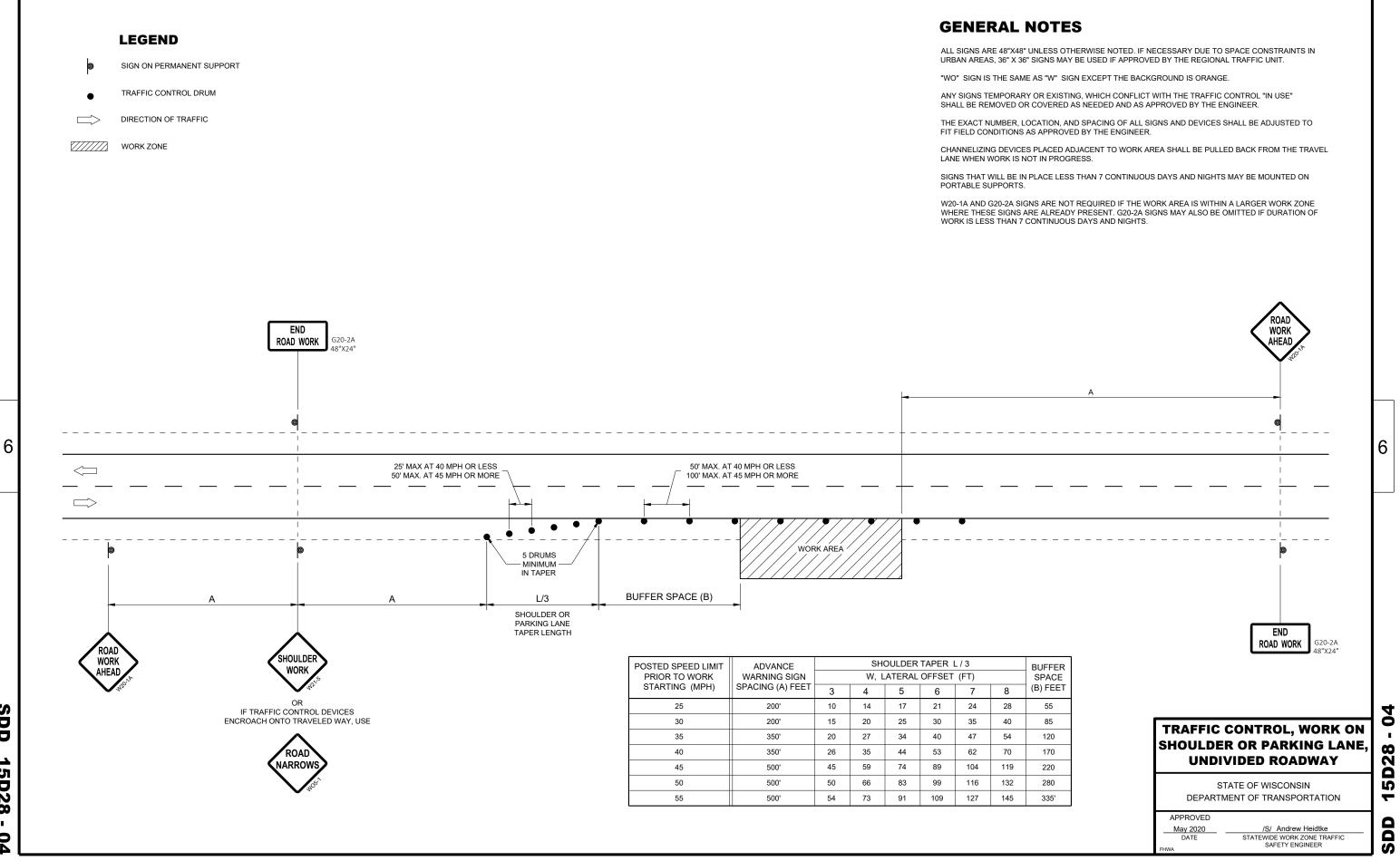
APPROVED May 2021 DATE

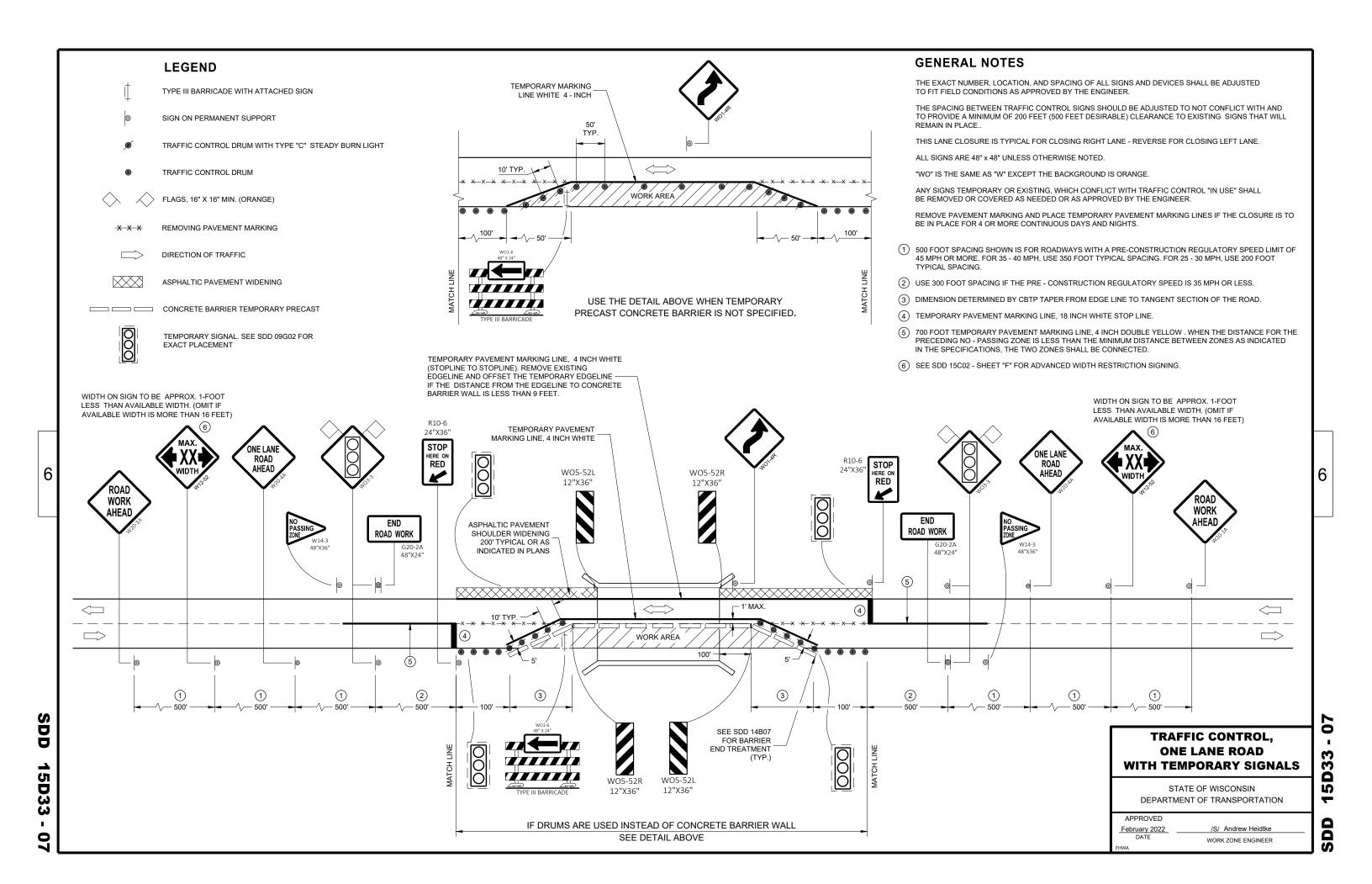
/S/ Andrew Heidtke WORK ZONE ENGINEER

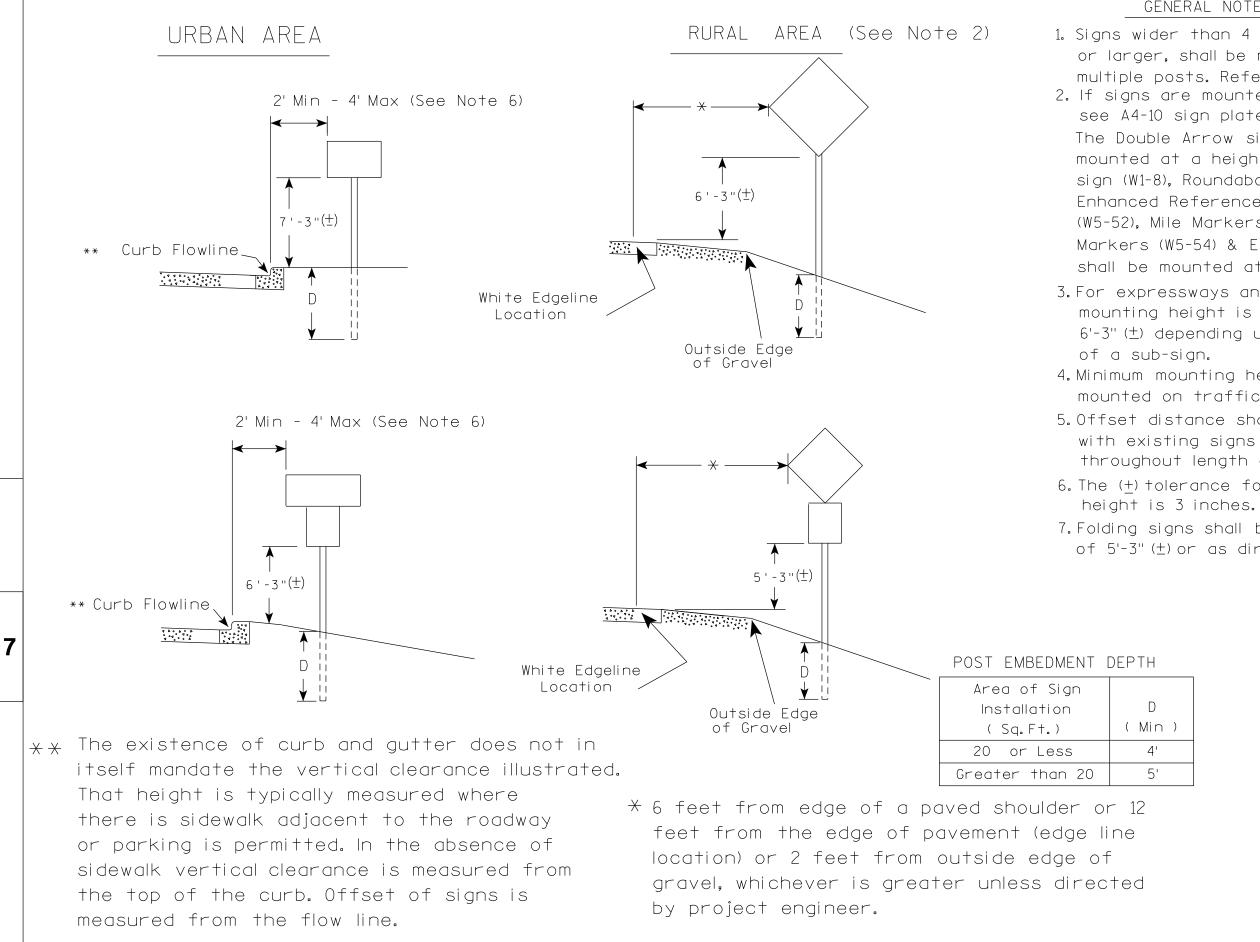




**SDD 15C19** a





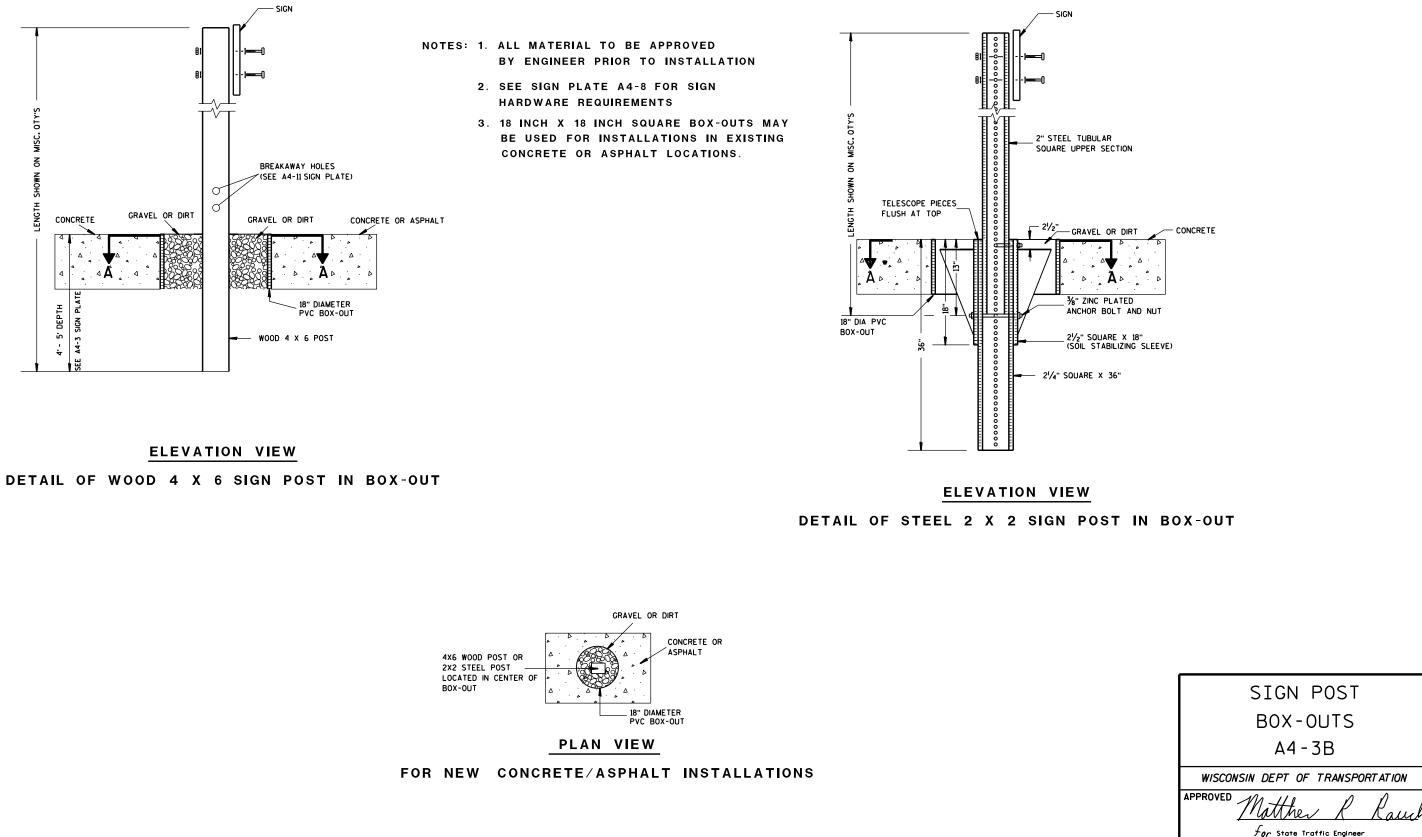


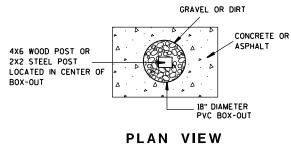
PROJECT NO:	HWY:	COUNTY:			
			DI AT DITE : 47 HUN 0000 4 4	DI OT DY IN IO	DLOT NAME -

### GENERAL NOTES

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

)	
	TYPICAL INSTALLATION
	OF PERMANENT TYPE II
	SIGNS ON SINGLE POSTS
	WISCONSIN DEPT OF TRANSPORTATION
	APPROVED Matthew & Rauch For state Traffic Engineer
	DATE <u>5/13/202</u> 0 PLATE NO. <u>44-3.22</u>
	SHEET NO: E
PLOT SCALE : \$\$	WISDOT/CADDS SHEET 42





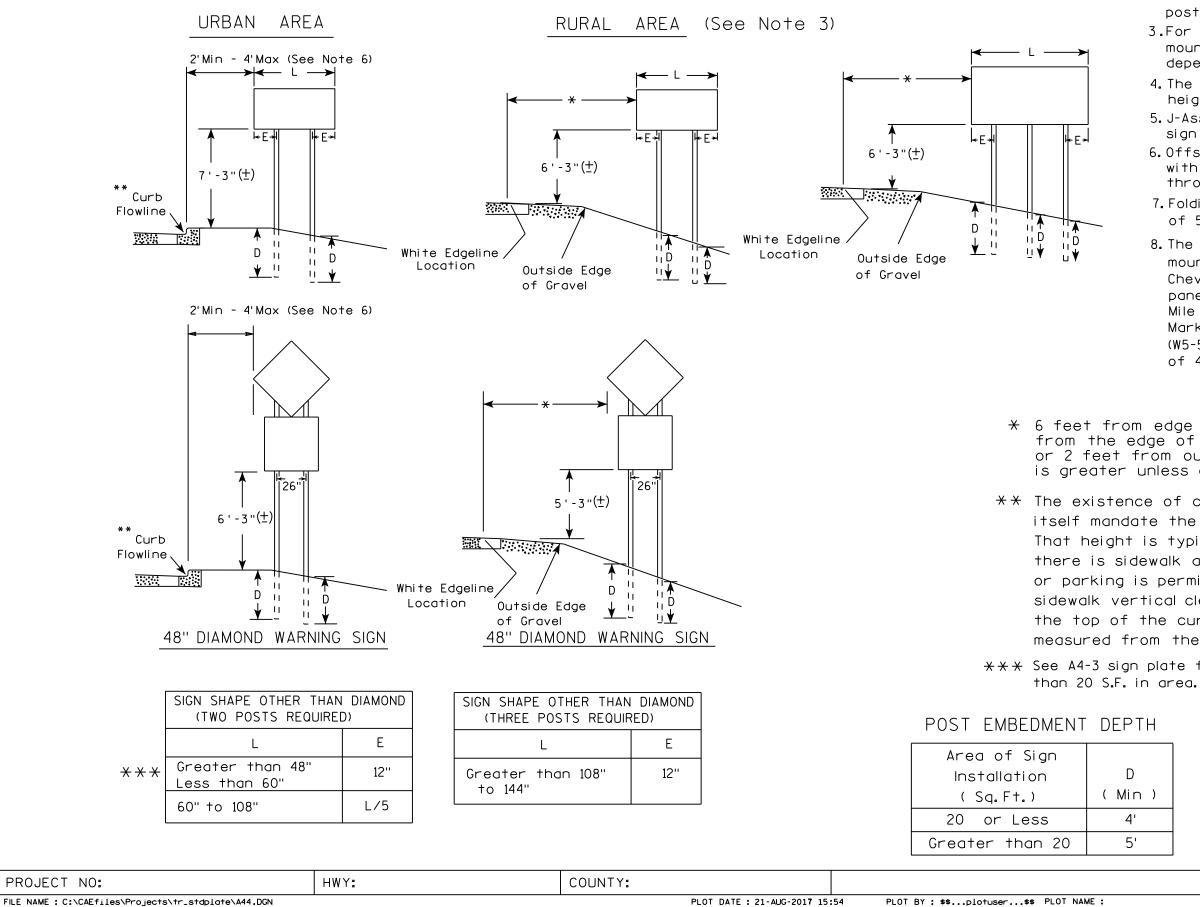
PROJECT NO:	HWY:	COUNTY:				
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN			PLOT DATE : 27-JAN-2014 09:4	8	PLOT BY : mscsja	PLOT NAME :

DATE <u>1/27/14</u>

SHEET NO:

PLATE NO. <u>A4-3B.1</u>

Ε



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

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GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3.For expressways and freeways, mounting height is  $7'-3''(\pm)$  or  $6'-3''(\pm)$ 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.

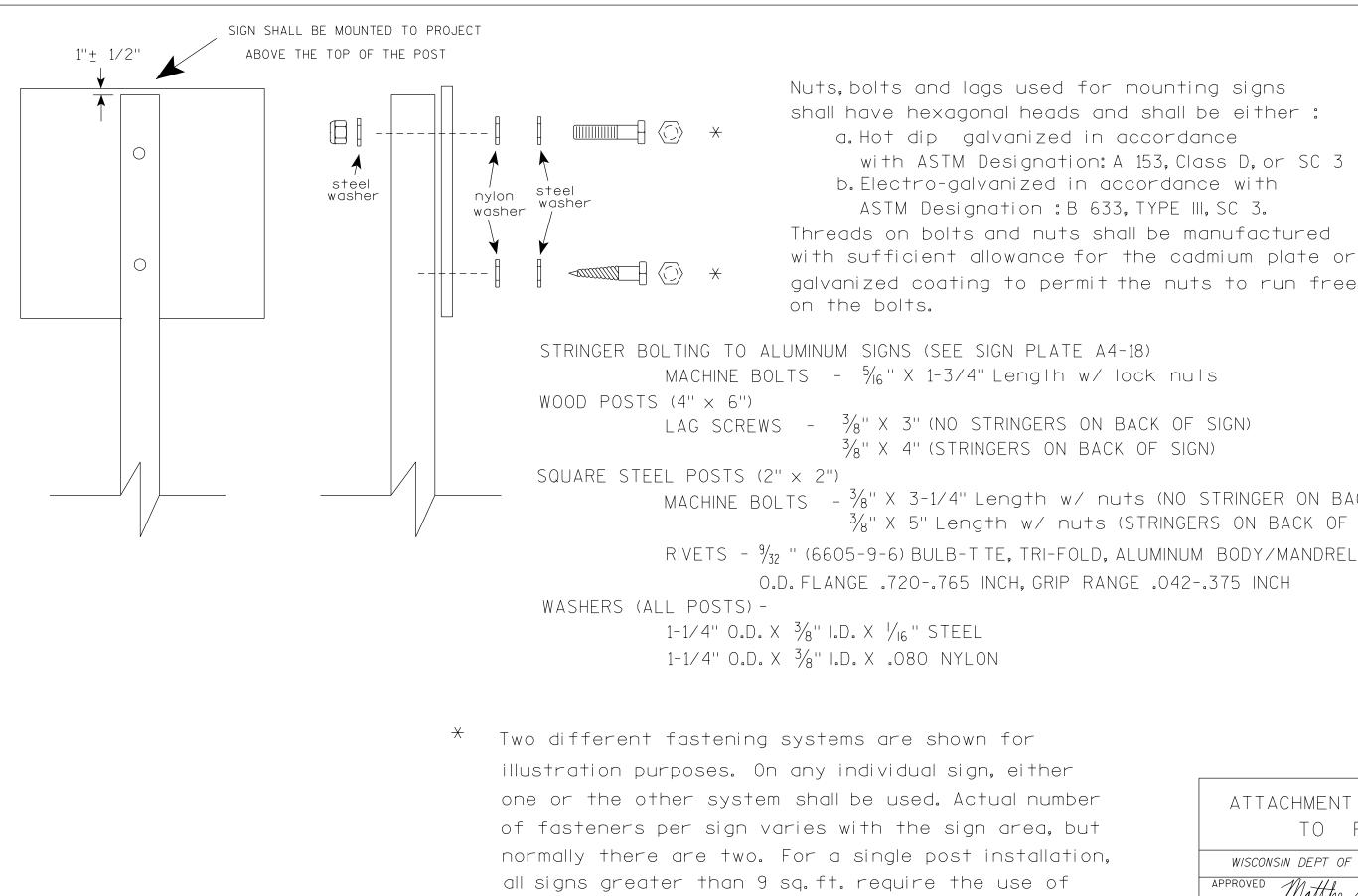
\*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

 $\times$   $\times$  See A4-3 sign plate for signs 4' or less in width and less

H	TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS
)	WISCONSIN DEPT OF TRANSPORTATION
,	APPROVED Matther & Rauch
	For State Traffic Engineer
	DATE 8/21/17 PLATE NO. 44-4.15
	SHEET NO: E
DI AT. CA	L 5 - 100 100007-1 00000

PLOT SCALE : 108.188297:1.000000

WISDOT/CADDS SHEET 42



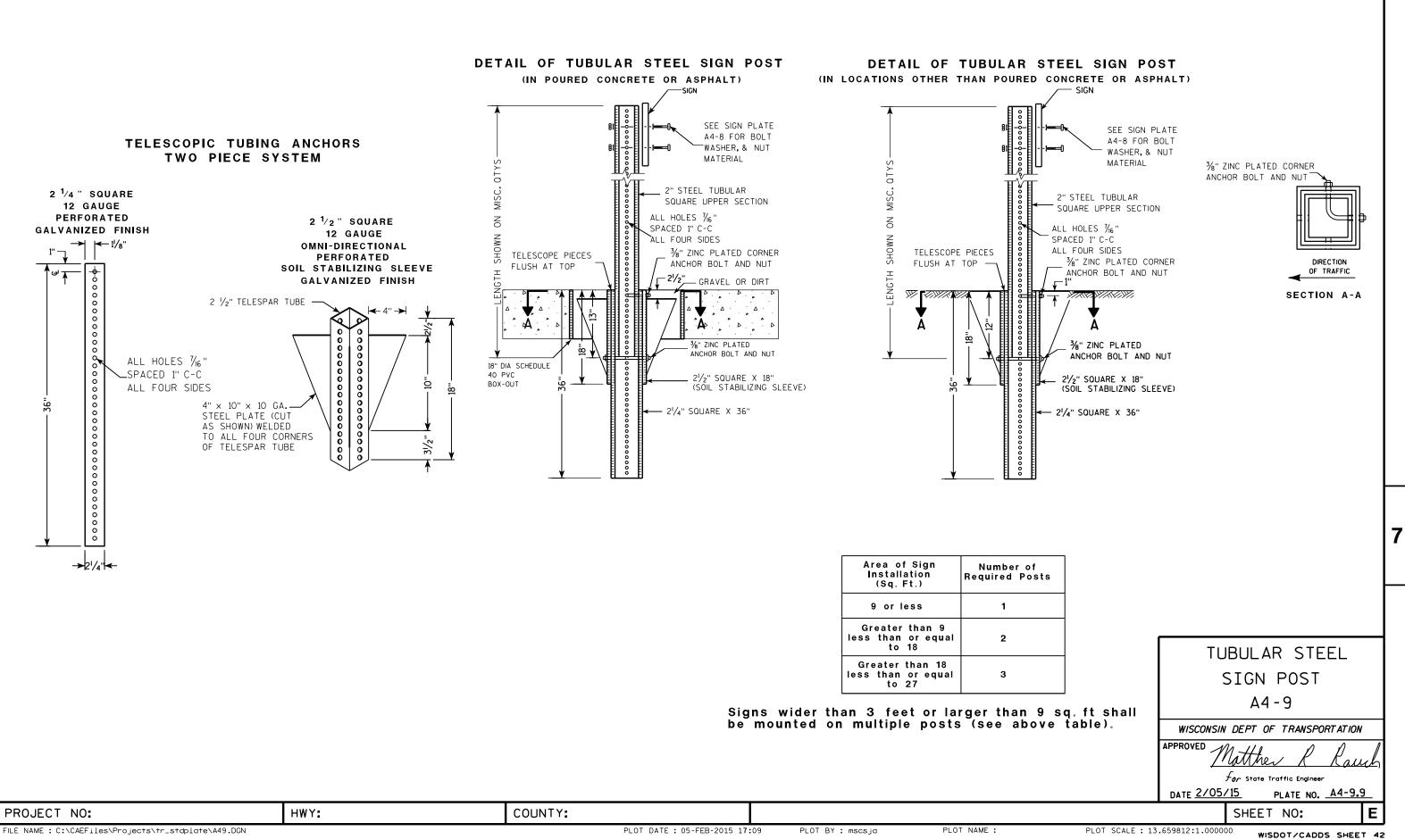
3 fasteners.

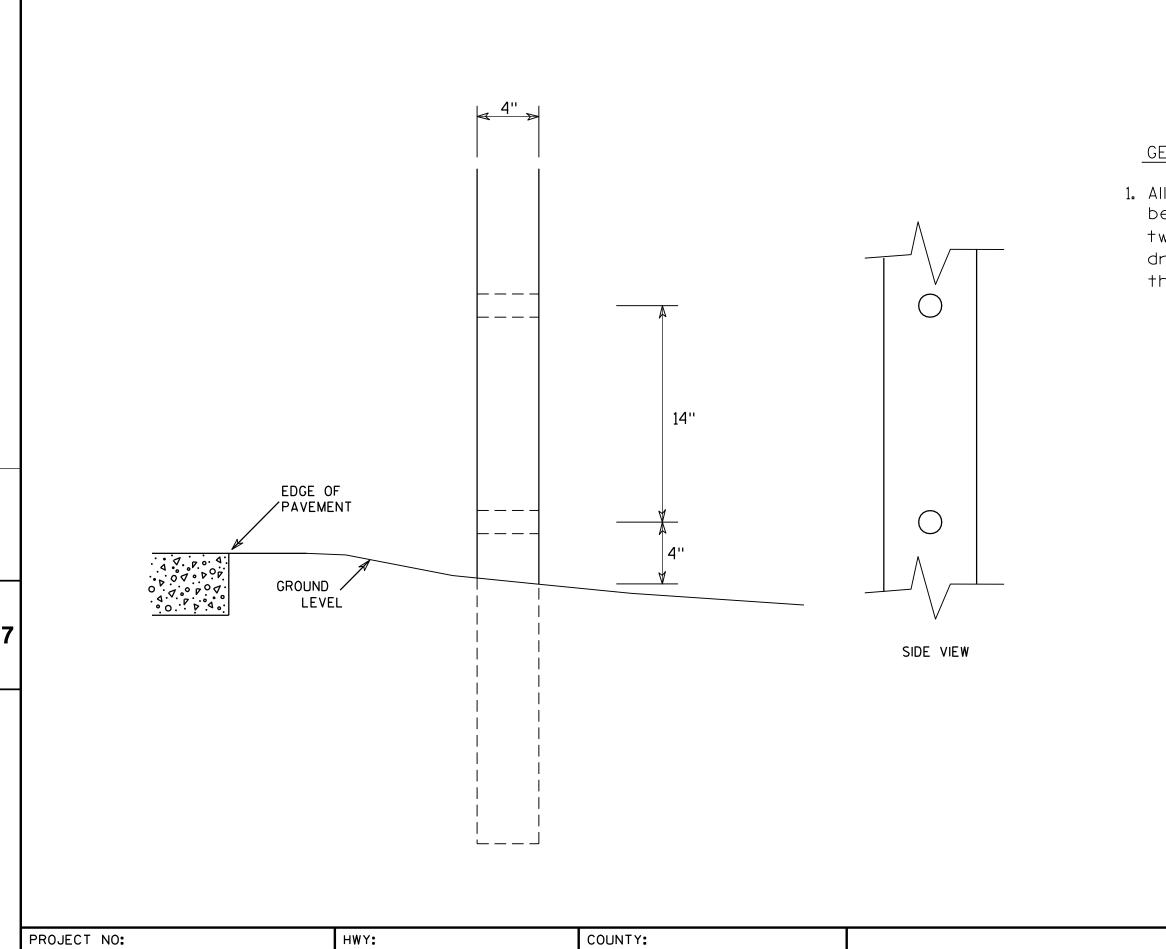
Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either : a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3 b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3. Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely

 $\frac{3}{8}$ " X 4" (STRINGERS ON BACK OF SIGN)

MACHINE BOLTS - <sup>3</sup>/<sub>8</sub>" 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)

ATTACHMENT OF SIGNS TO POSTS
WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R Rauch
For State Traffic Engineer
DATE <u>4/1/202</u> 0 plate no. <u>A4-8.9</u>
SHEET NO: E



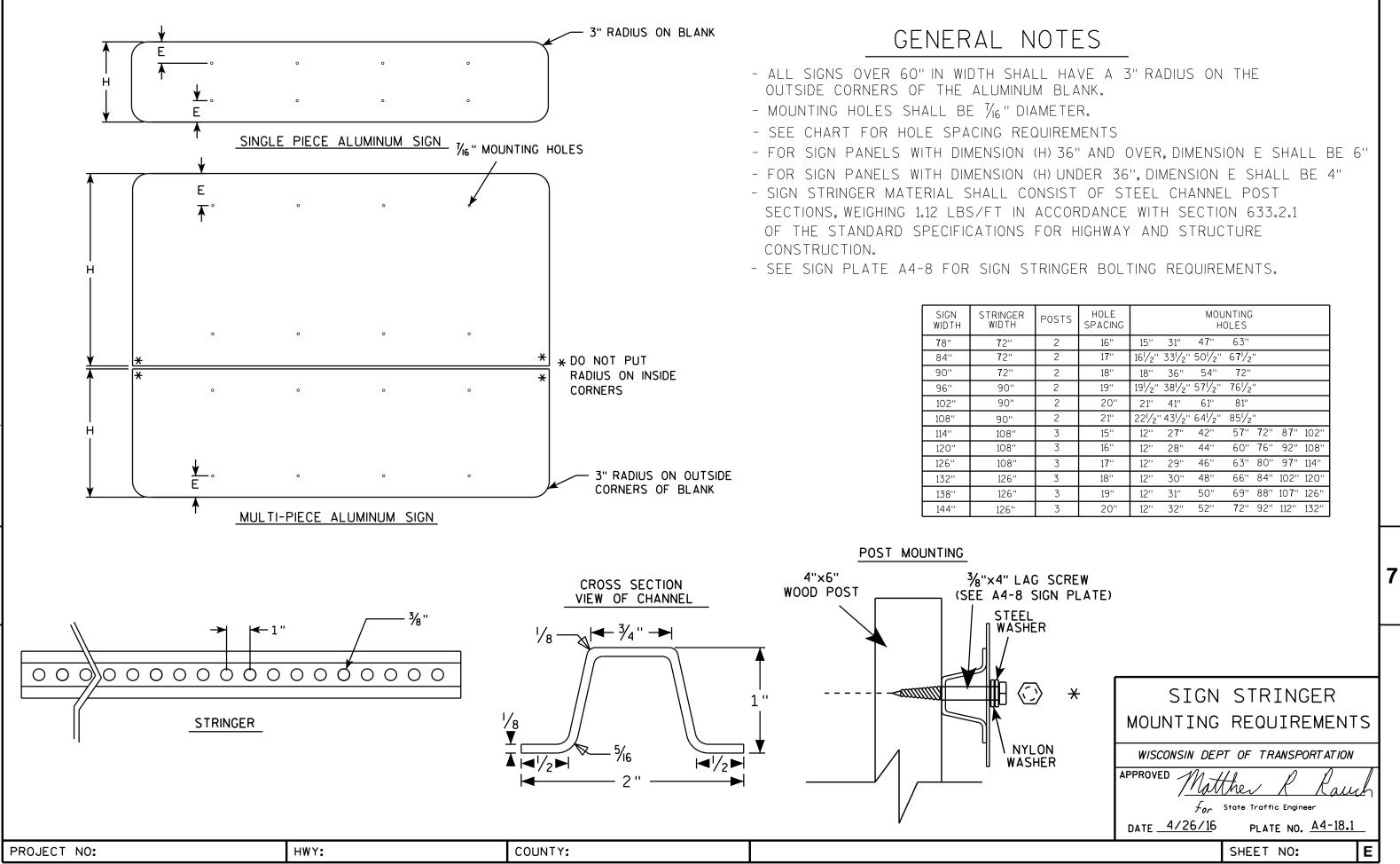


FILE NAME : C:\Users\Projects\tr\_stdplate\A411.DGN

# GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two  $1\frac{1}{2}$ " diameter holes drilled perpendicular to the roadway centerline.

	4	Х	ô	WOO	DF	POST	
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	APPROVE	D		hester .	Γέ	Spang	
			tor	State Tr	affic Er	ngineer	
	DATE 3	/27/9	<u>17</u>	PLA	TE NO	<u>A4-11.2</u>	2
			9	SHEET	N0:		Ε
OT SCALE	E:6.20 <b>7</b> 33	8:1.0000	000	WISD	от/с	ADDS SHEE	т 42



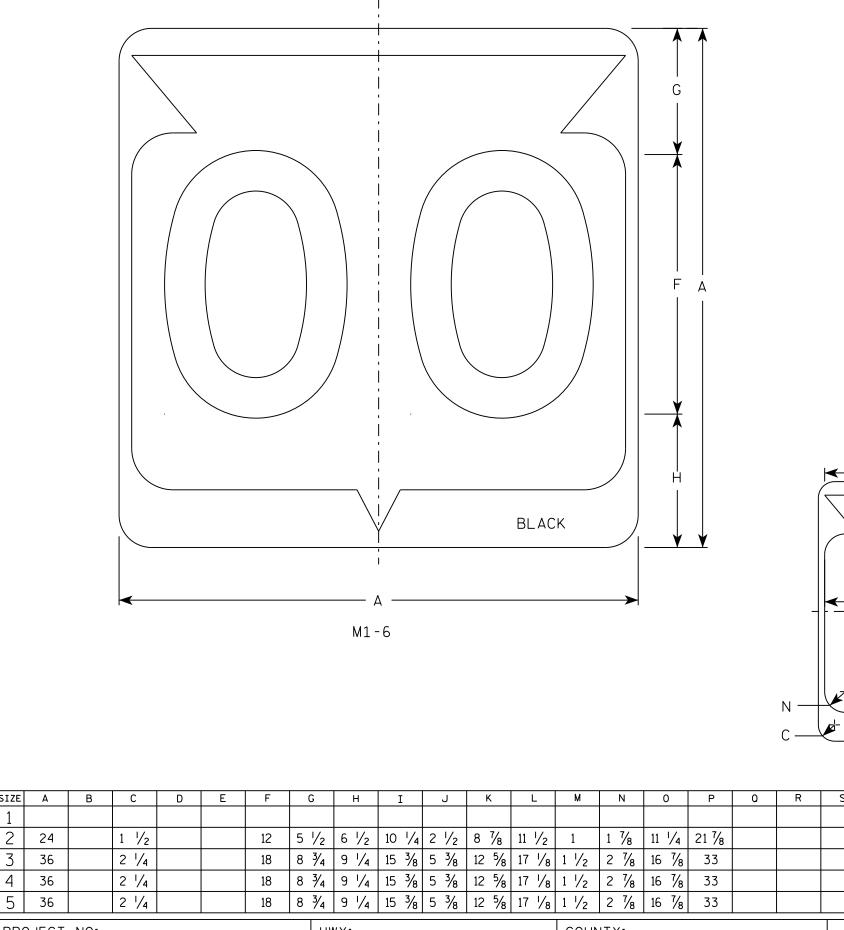
FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A418.dgn

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PLOT BY : mscj9h PLOT NAME :

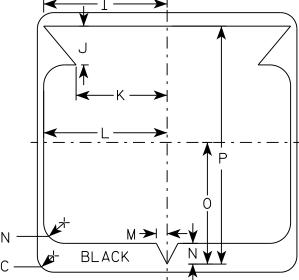
R	POSTS	HOLE SPACING				NTING DLES			
	2	16''	15''	31''	47''	63''			
	2	17''	16 <sup> </sup> /2''	33 <sup> </sup> /2"	50 <sup>1</sup> /2''	6 <b>7</b> 1/2'	I		
	2	18''	18''	36''	54''	72"			
	2	19''	19 <sup> </sup> /2''	38 <sup> </sup> /2"	57 <sup> </sup> /2"	76 <sup> </sup> /2'			
	2	20''	21''	41''	61''	81''			
	2	21''	22 <sup> </sup> /2'	' 43 <sup> </sup> /2"	64 <sup> </sup> /2''	85 <sup> </sup> /2'			
	3	15''	12''	2 <b>7</b> ''	42''	57''	<b>7</b> 2''	87''	102''
	3	16''	12''	28''	44''	60''	<b>7</b> 6''	92''	108''
	3	17''	12''	29''	46''	63''	80''	97''	114''
	3	18''	12''	30"	48''	66''	84''	102''	120''
	3	19''	12''	31''	50"	69''	88''	107''	126''
	3	20''	12''	32''	52''	72''	92''	112''	132''

PLOT SCALE : 41.805205:1.000000



NOTES

- 2.Color:
  - Background White Message – Black

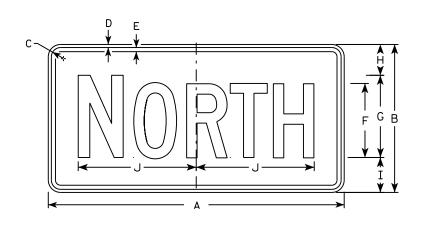


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3	36		2 1/4			18	8 3⁄4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33										
4	36		2 1/4			18	8 3⁄4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33										
5	36		2 1/4			18	8 3⁄4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7⁄8	16 7/8	33										
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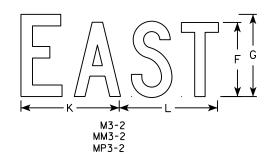
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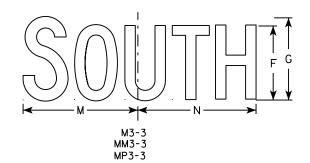
```
1. Sign is Type II - Type H Reflective
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base
  material is plywood but borders shall be rounded
  as shown. When base material is metal, the
  corners and borders shall be rounded.
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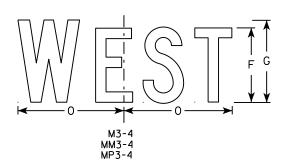
Z Area sq. ft.	-		ROUTE MA For Assem	
4.0		WISCONSIN	DEPT OF TRANSPO	RTATION
9.0		APPROVED	Matthew R	Paul
9.0			$f_{or}$ State Traffic Engin	
9.0		DATE <u>3/16/</u>	18 PLATE NO.	<u>M1-6.10</u>
		•	SHEET NO:	E
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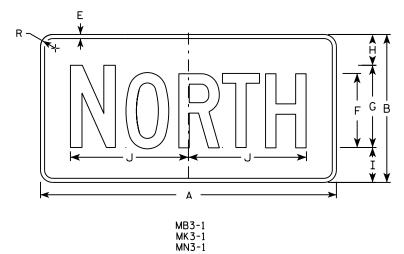
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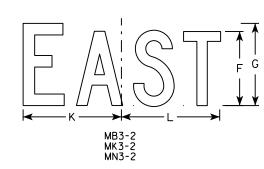
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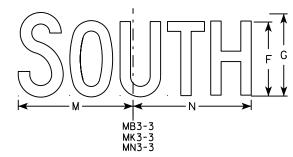
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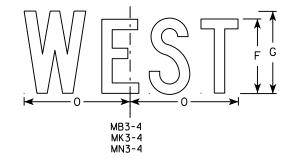
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- All Signs Type I
   Color:
  - Background -Message - Se
- 3. Message Series
- 4. Corners may be material is plyw as shown. When corners and bo
- 5. M3-1 thru M3-4

MB3-1 thru MB3.

- MK3-1 thru MK3-
- MM3-1 thru MM3-
- MN3-1 thru MN3-
- MP3-1 thru MP3
- 6. Note the first than the remai

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PLAT DATE . AL-DEC-2015 17.54 PLAT RY . \$\$ Diatuser \$\$ PLAT NAME :

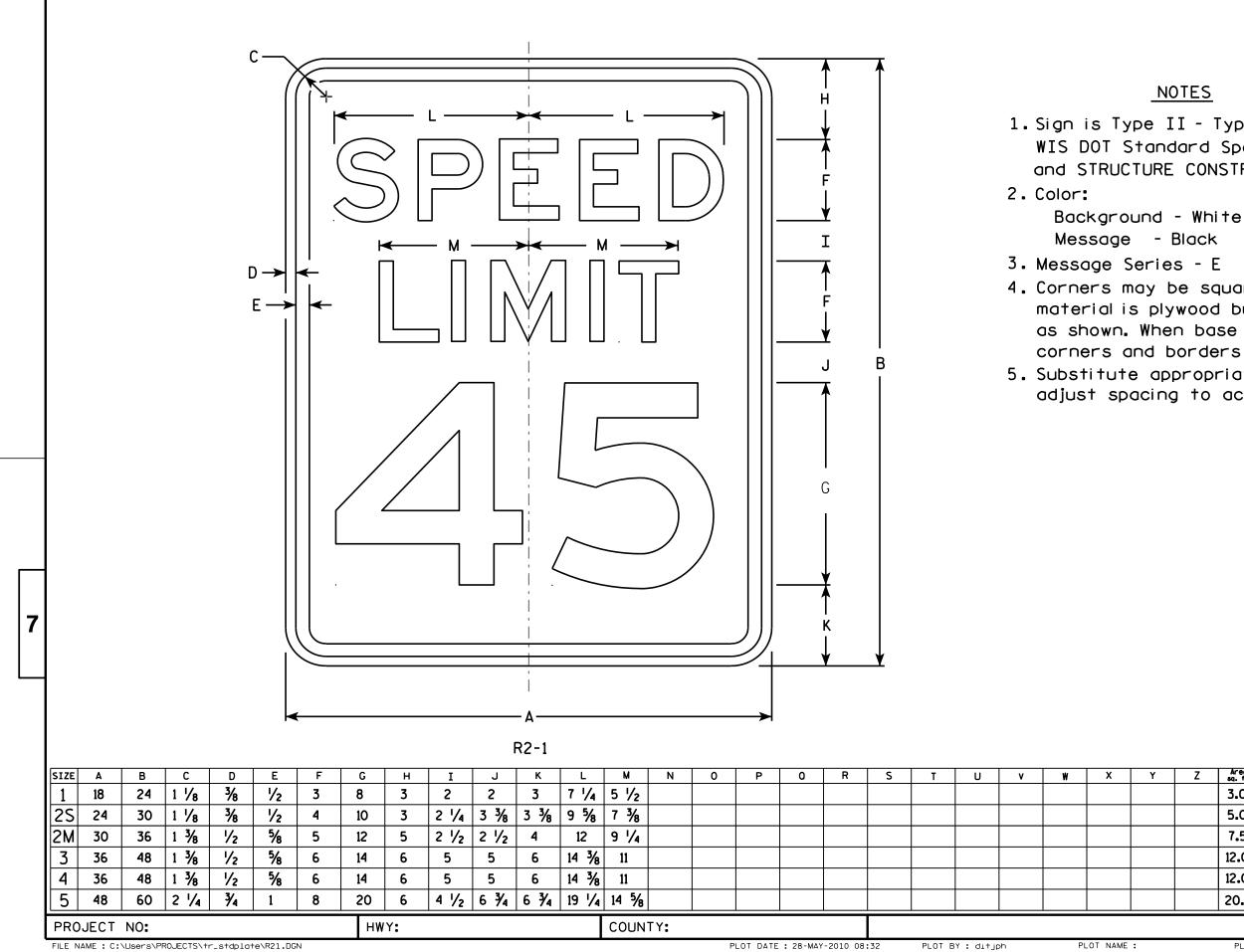
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<u>TES</u> II - Type H
See note 5 See note 5 s - C e square or rounded when base wood but borders shall be rounded n base material is metal, the orders shall be rounded.
Background - White Message - Black -4 Background - Blue Message - White
-4 Background - Green
Message - White -4 Background - White
Message - Green -4 Background - Brown
Message - White -4 Background - White
Message – Blue t letter of each direction is larger inder of the message.

		STANDARD SIGNS
Z	Area sq. ft.	M3-1thur M3-4
		SERIES
	2.00	WISCONSIN DEPT OF TRANSPORTATION
	4.5	APPROVED Matthew P Paul
	4.5	for State Traffic Engineer
	4.5	DATE 10/15/15 PLATE NO. M3-1.14
		SHEET NO:

-



PLOT DATE : 28-MAY-2010 08:32

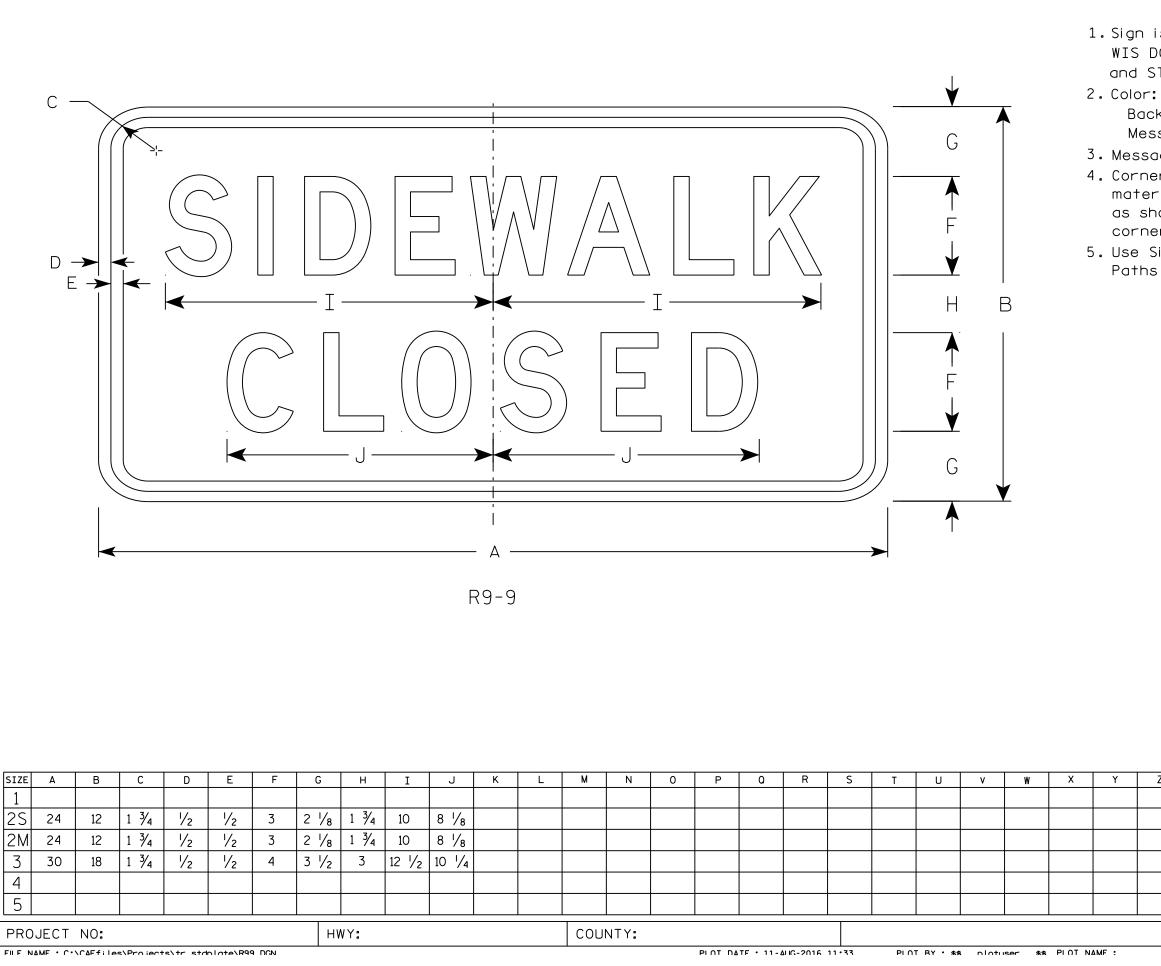
# NOTES

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

4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal. the corners and borders shall be rounded. 5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

_		4100	
	Z	Areo sq. ft.	
	1	3.0	STANDARD SIGN
		5.0	R2 - 1
		7.5	WISCONSIN DEPT OF TRANSPORTATION
		12.0	APPROVED Matther R Rauch
		12.0	For State Traffic Engineer
		20.0	DATE 5/26/10 PLATE NO. R2-1.13
			SHEET NO: E

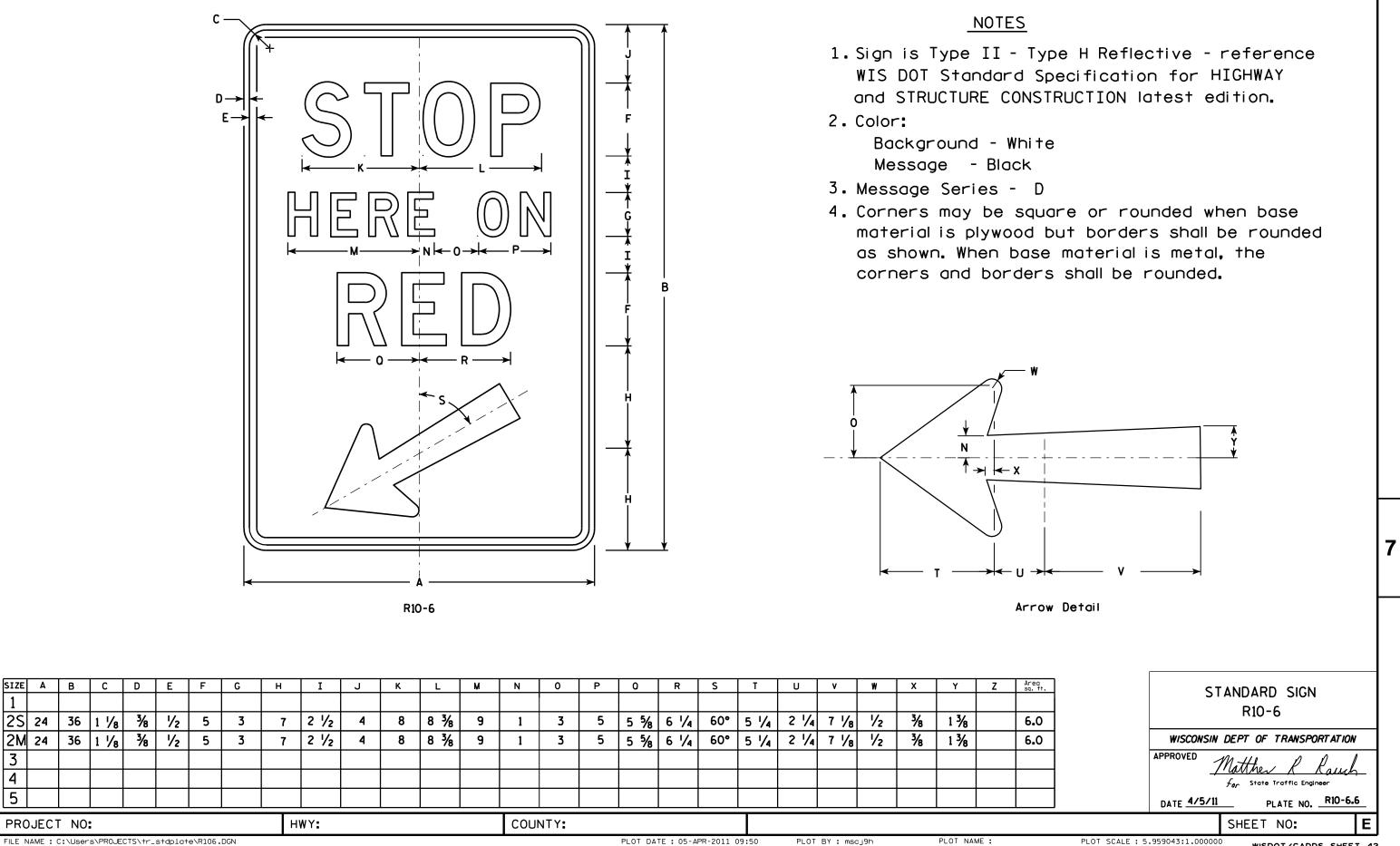
WISDOT/CADDS SHEET 42



# NOTES

 Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
 Color: Background - White Message - Black
 Message Series - C
 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.
 Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

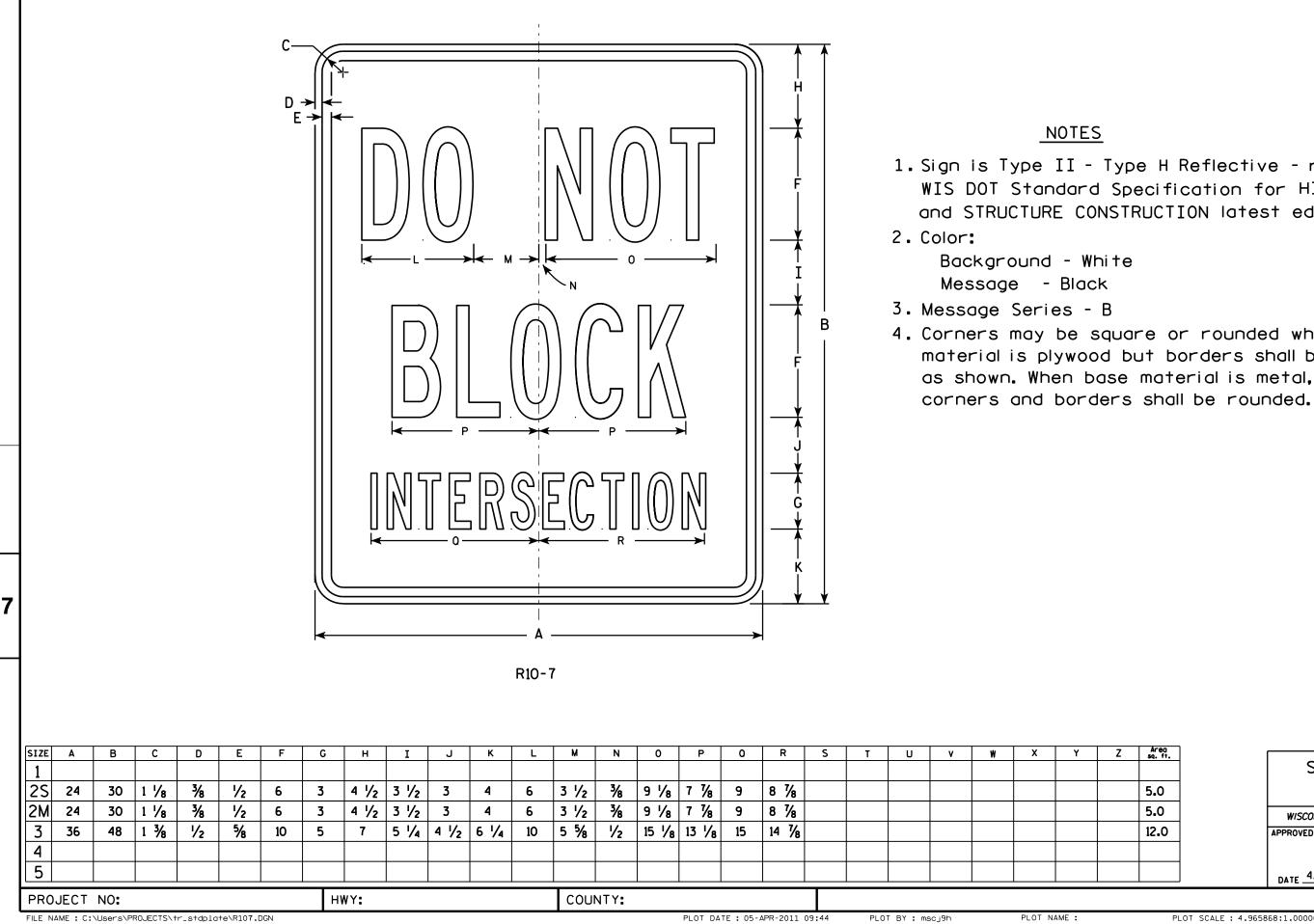
Z	Area sq. ft.	STA		) SIGN	
	2.0		R9 -	9	
	2.0	WICCONCIN		TRANSPORTATIO	
	2.0		DEFIOR		//v
	3.75	APPROVED 2	Natther	R Rain	6
			for State Tr	affic Engineer	
		DATE <u>8/11/1</u>	<u>6</u> PL	ATE NO	9.6
			SHEET	NO:	E



FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R106.DGN

PLOT DATE : 05-APR-2011 09:50

PLOT NAME :



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

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

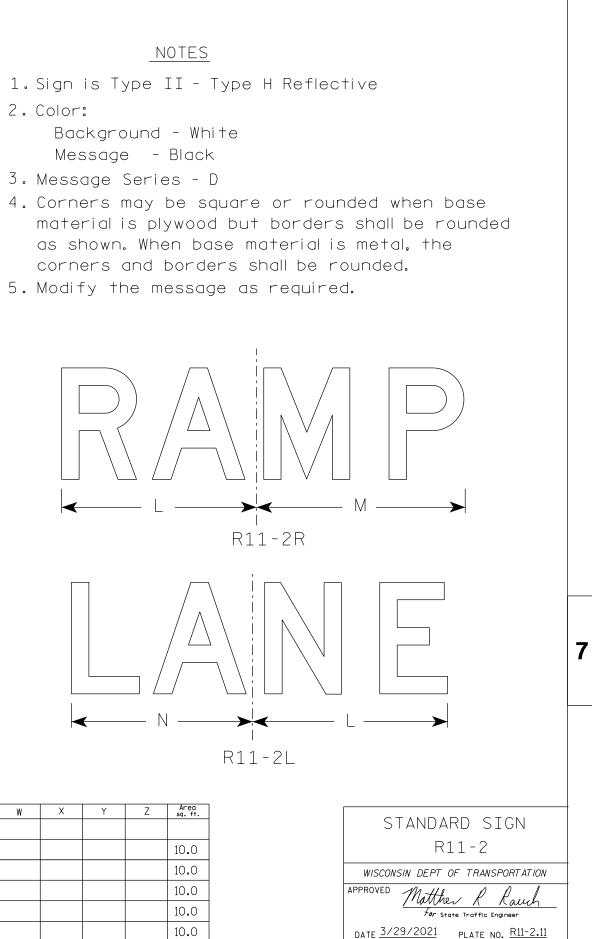
7 Area	
Z sq. ft.	STANDARD SIGN
5.0	R10-7
5.0	WISCONSIN DEPT OF TRANSPORTATION
12.0	APPROVED Matthew & Rauch
	For State Traffic Engineer
	DATE 4/5/11 PLATE NO. R10-7.5
	SHEET NO: E
PLOT SCALE : 4.9658	WISDOT/CADDS SHEET 42

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7														-0		R11	<ul><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li></ul>		_0-			]				<hr/>	/ N	//////////////////////////////////////
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	3	48	30	1 3/8	1/2	5⁄8	8	5	4	13 1/4	13 ½	19	14	15	13	15 5/8												10.0
	4	48	30	1 3/8	1/2	5⁄8	8	5	4	13 1/4	13 ½	19	14	15	13	15 5/8												10.0
	5	48	30	1 3/8	1/2	5⁄8	8	5	4	13 1/4	13 ½	19	14	15	13	15 5/8												10.0
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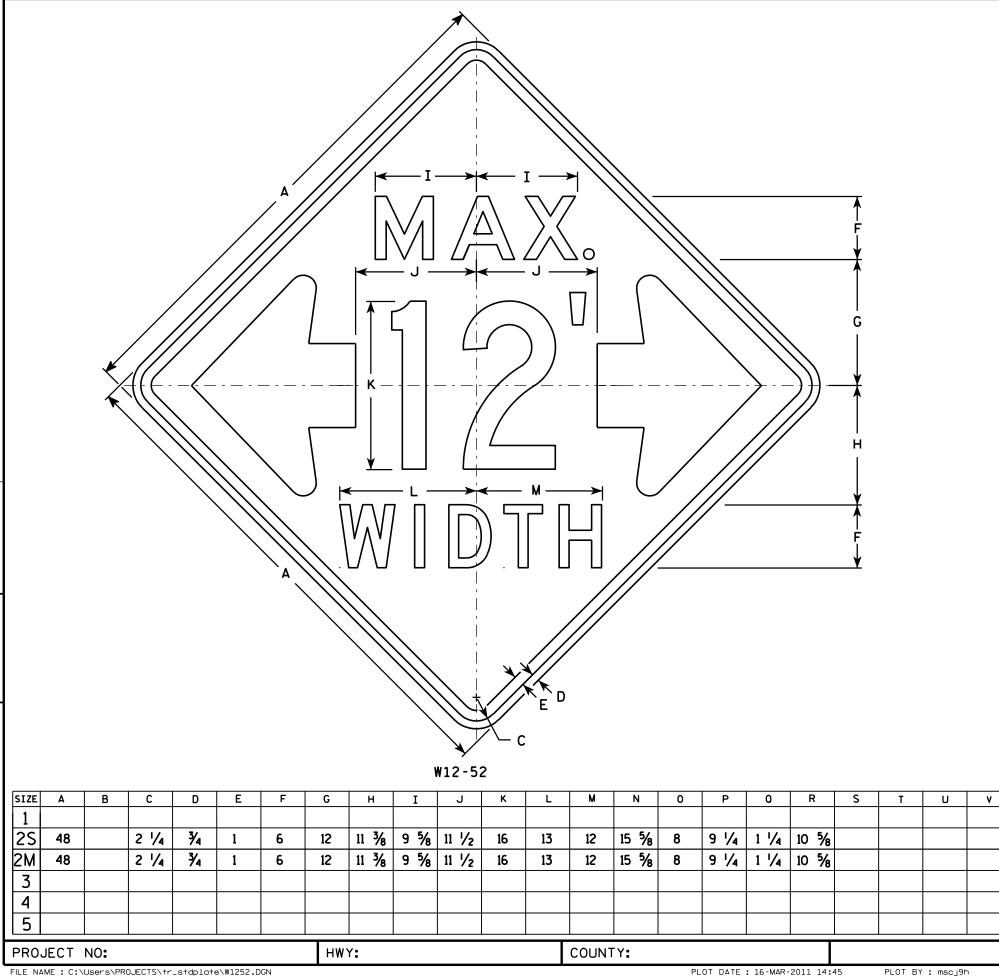
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С.

- 2. Color:
- 3. Message Series D



	For sta	ite Traffic Engi	neer	
DATE <u>3/</u>	29/2021	PLATE NO.	<u>R11-2.1</u>	1
	SHEET	NO:		Ε



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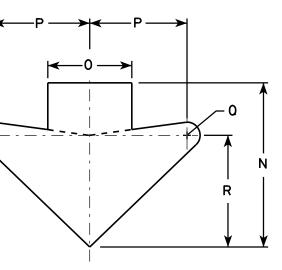
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# NOTES

2. Color:

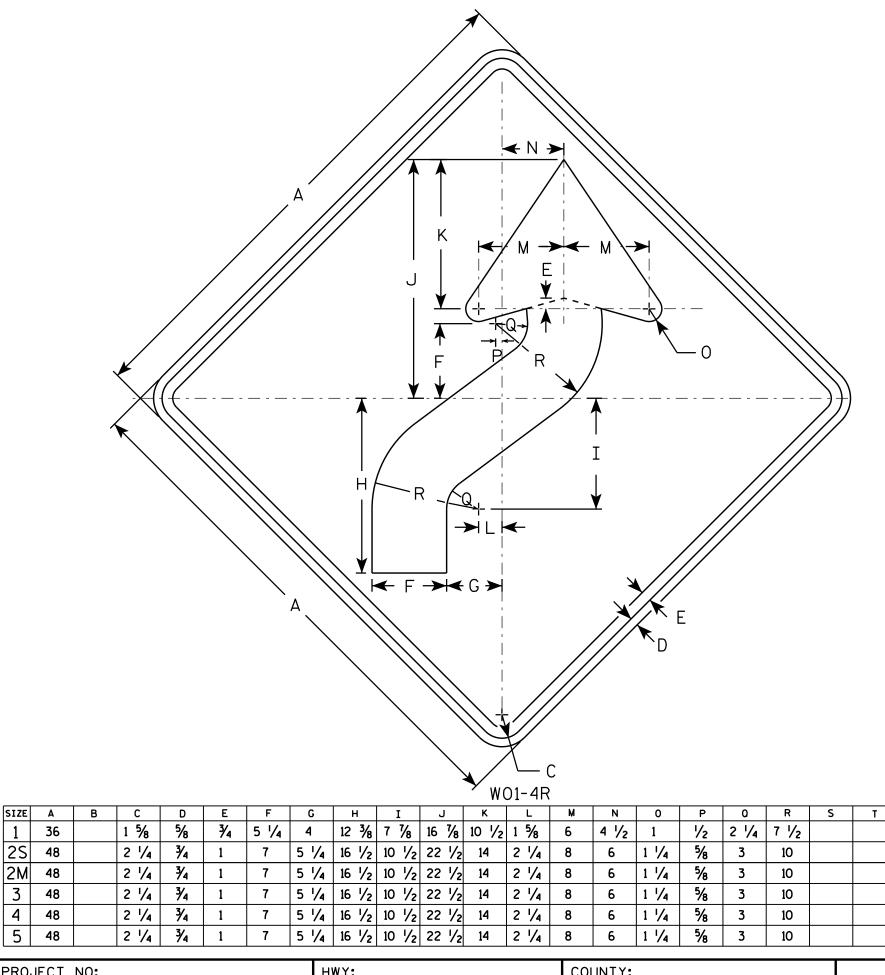
1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

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. The top line is series E, the numerals are series C, and the bottom line is series D. 6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

_							
	Z	Areo sq. ft.		ST	ANDARD S	IGN	
		16.0			W12-52		
		16.0		WISCONSI	N DEPT OF TRANS	SPORTATION	
				APPROVED	Matther R	Rauch	
				-	For State Traffic		_
				DATE	6/11 PLATE N	NO. <u>W12-52</u>	<u>.7</u>
					SHEET NO:		Ε
		PLOT S	CALE : 9.13	7199:1.000000	WISDOT/CA	DDS SHEE	г 42



- 2. Color:

U

V

- Background Orange Message - Black

Х

W

Y

PROJECT NO:	HWY:	COUNTY:		
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014.DGN		PLOT DATE : 28-FEB-2014 11:	35 PLOT BY : msc.j9h	PLOT NAME :

# NOTES

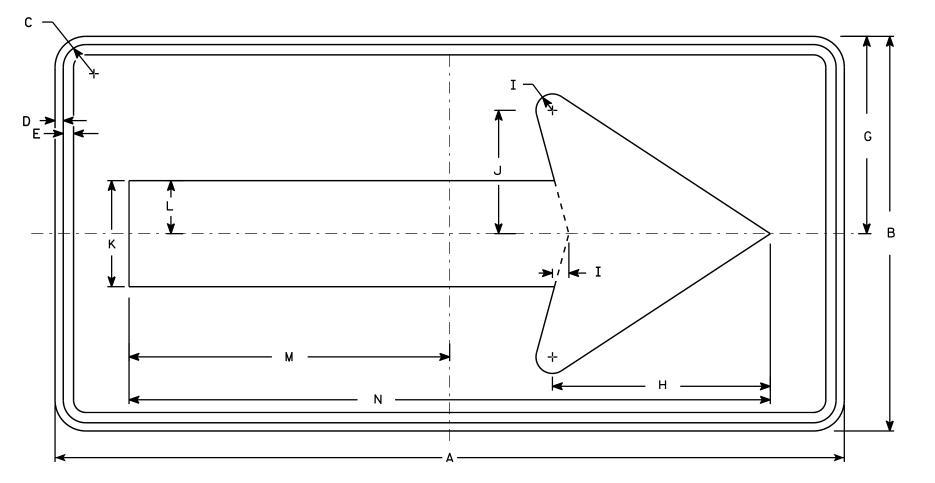
1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

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. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

		STANDARD SIGN
Z	Area sq. ft.	WO1-4
	9.0	WOI-4
	16.0	WISCONSIN DEPT OF TRANSPORTATION
	16.0	APPROVED 100 110 0 0
	16.0	Matther & Rauch
	16.0	$f_{or}$ State Traffic Engineer
	16.0	DATE <u>11/18/1</u> 3 plate no. <u>W01-4.1</u>
		SHEET NO: E

WISDOT/CADDS SHEET 42





SIZE	Α	В	С	D	E	F	G	н	I	J	к	L	M	N	0	P	0	R	S	Т	U	v	W	X	Y
1																									1
2S	48	24	1 3/8	1/2	5%8		12	13 1⁄4	1	7 1/2	6 <sup>1</sup> /2	3 1/4	19 1⁄2	39											
2M	48	24	1 3/8	1/2	5%		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39											
3	60	30	1 3/8	1/2	5%		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾											
4	60	30	1 3/8	1/2	5⁄8		15	16 1⁄4	1 1/4	9 1/4	8	4	24 3/8	48 ¾											
5	60	30	1 3/8	1/2	5%		15	16 1⁄4	1 1⁄4	9 1/4	8	4	24 3/8	48 ¾											
PRC	JECT	NO:					ни	VY:					COUN	ΤΥ:											
FILE N	AME : C:	\CAEfile	s\Project	s\tr_std	plate\W01	L6.DGN									I	PLOT DAT	E : 28-FE	3-2014 11	:37	PLOT I	BY : mscj	j9h	P	PLOT NAME	. :

- 2. Color:
  - Message Black

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W016.DGN

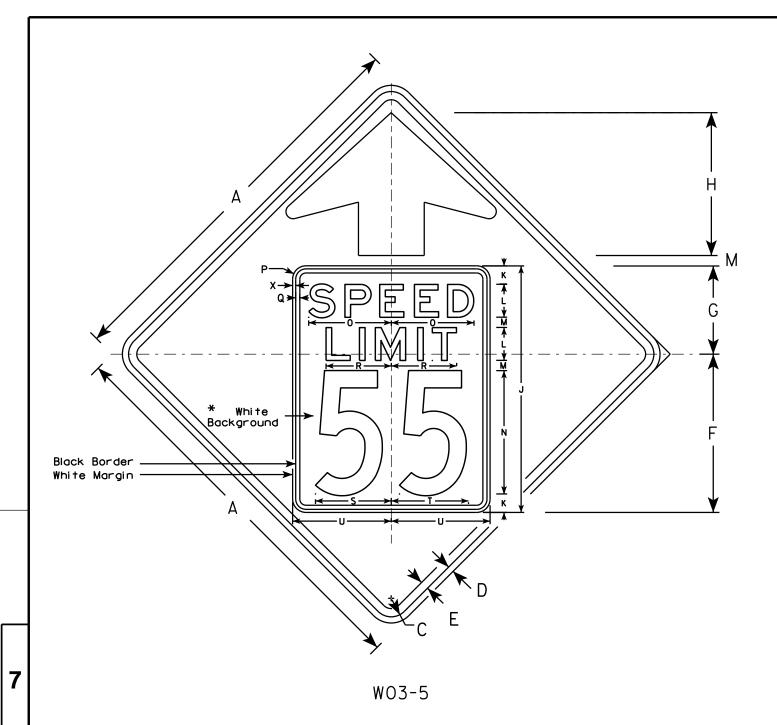
# NOTES

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

Background - Orange

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.

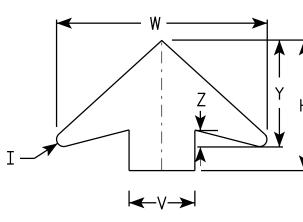
Z	Areg sq. ft.	STANDARD SIGN
	8.0	W01-6
	8.0	WISCONSIN DEPT OF TRANSPORTATION
	12.5	APPROVED Matthew & Rauch
	12.5	For State Traffic Engineer
	12.5	DATE <u>11/18/13</u> PLATE NO. <u>WO1-6.1</u>
		SHEET NO: E



# NOTES

- and STRUCTURE CONSTRUCTION latest edition.
- 2. Color: \* Background - ORANGE\* Message - BLACK
- 4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

\*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	Α	В	С	D	E	F	G	н	I	J	ĸ	L	м	N	0	Р	0	R	S	Т	U	v	W	X	Y	Γ
1	36		1 5/8	5⁄8	3⁄4	14 ½	9 ½	11 1/2	5⁄8	24	2	3	1	12	7 1/8	1 1/2	3∕8	5 3/4	7 1/4	7 1/8	9	6	19 1⁄4	3⁄8	9 3⁄4	1
2S	48		2 1/4	3⁄4	1	19 1/4	10 3⁄4	17 3/8	7∕8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1⁄4	9 3/8	12	8	25 5/8	3⁄8	13	
2M	48		2 1/4	3⁄4	1	19 1/4	10 3⁄4	17 3/8	⅛	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 ¼	9 3/8	12	8	25 5/8	3⁄8	13	
3	48		2 1/4	3⁄4	1	19 1/4	10 3⁄4	17 3/8	7∕8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1⁄4	9 3/8	12	8	25 5/8	3⁄8	13	
4	48		2 1/4	3⁄4	1	19 1⁄4	10 3⁄4	17 3/8	7∕8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1⁄4	9 3/8	12	8	25 5/8	3⁄8	13	
5	48		2 1/4	3⁄4	1	19 1/4	10 3⁄4	17 3/8	⅛	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1⁄4	9 3/8	12	8	25 5/8	3⁄8	13	
PRO	JECT	N0:																								_
		VCAEE: Lo	n Pro ioot	toltr oto	In Lato WC												TE . 20-1	VOV-2013	11.32	PL O		sos ia				

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W035.DGN

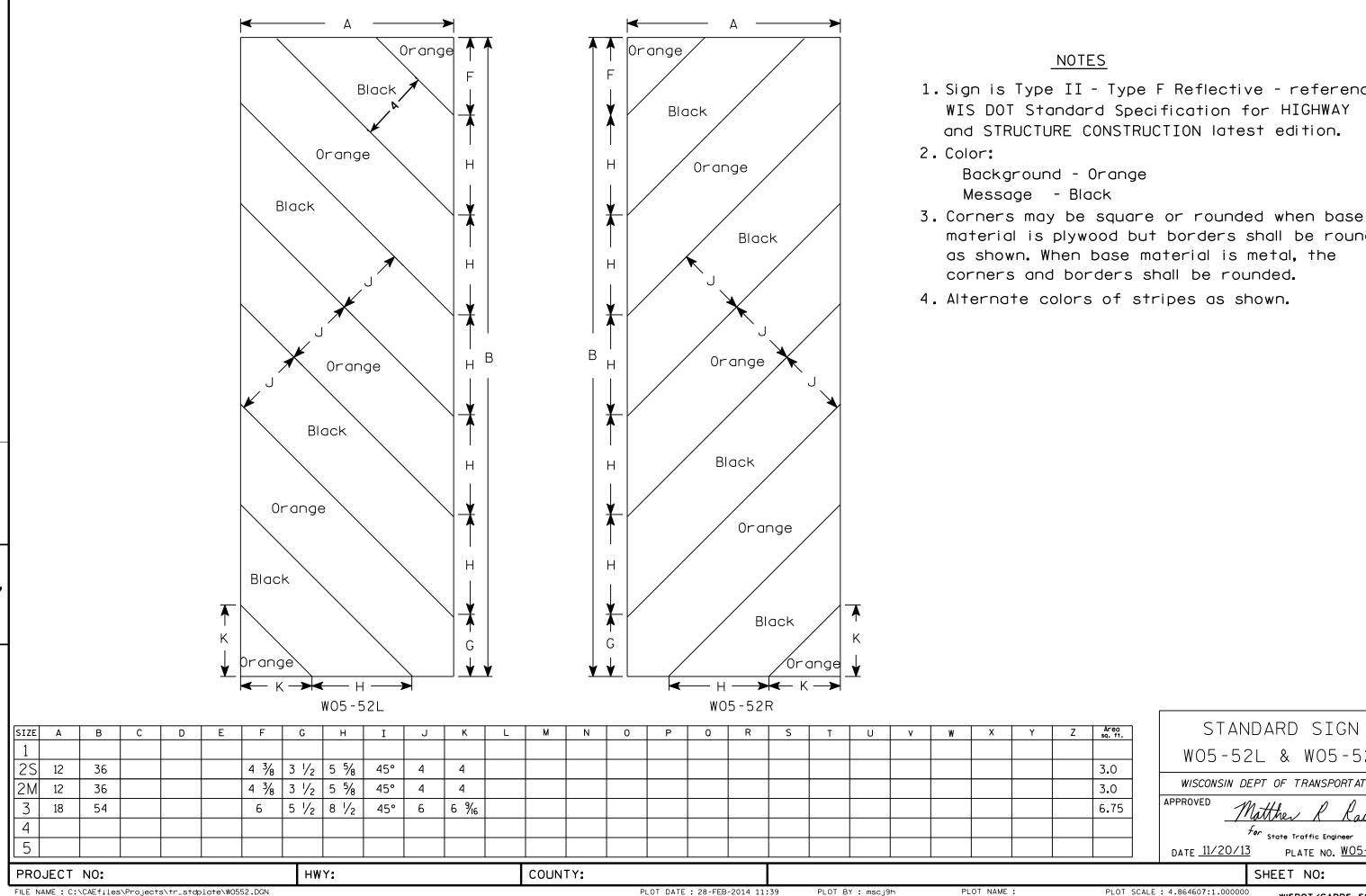
PLOT DATE : 20-NOV-2013 11:32

PLOT BY : mscsja

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY

3. Message Series - C for numbers Series E for wording

Z	Areo sq. ft.	STANDARD SIGN
1 5⁄8	9.0	WO3-5
2	16.0	
2	16.0	WISCONSIN DEPT OF TRANSPORTATION
2	16.0	APPROVED Matthew R Rough
2	16.0	$f_{or}$ State Traffic Engineer
2	16.0	DATE 11/20/13 PLATE NO. WO3-5.1
		SHEET NO: E



# NOTES

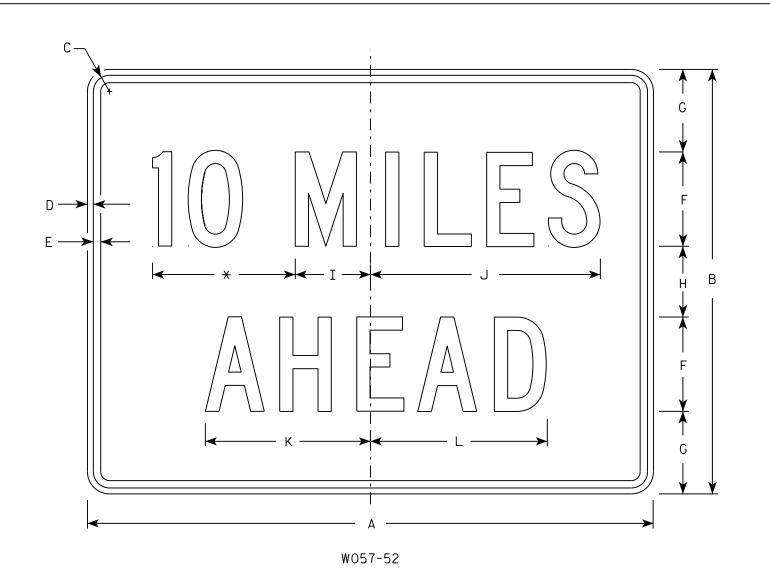
1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

Background - Orange

material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

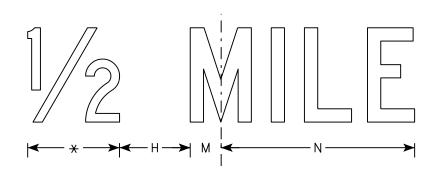
Z Area	STANDARD SIGN	
	W05-52L & W05-52R	
3.0	WISCONSIN DEPT OF TRANSPORTATION	
3.0		
6.75	APPROVED Matther & Rauch	
	For State Traffic Engineer	-
	DATE <u>11/20/13</u> PLATE NO. <u>W05-52.1</u>	<u>1</u>
	SHEET NO:	E

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 corners and borders shall be rounded.



\* See note 5

SIZE	Α	В	С	D	E	F	G	н	I	J	ĸ	L	м	N	0	Р	0	R	S	Т	U	v	W	X	Y	Z	Area sq. ft
1	36	24	1 1/8	3⁄8	1/2	6	4 1/2	3	4 <sup>3</sup> ⁄4	14 5/8	10 5/8	11 3/8	2	12													6.0
2S	48	36	1 3/8	1/2	5⁄8	8	7	6	6 3/8	19 1/2	14	15	2 3⁄4	16 <sup>3</sup> ⁄8													12.0
2M	48	36	1 3/8	1/2	5⁄8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
3	48	36	1 3/8	1/2	5⁄8	8	7	6	6 3/8	19 1/2	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 1/2	14	15	2 3/4	16 <sup>3</sup> ⁄8													12.0
5	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
PRO	JECT	NO:						HWY:					С	OUNTY	o 0												
																								_		-	

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W05752.DGN

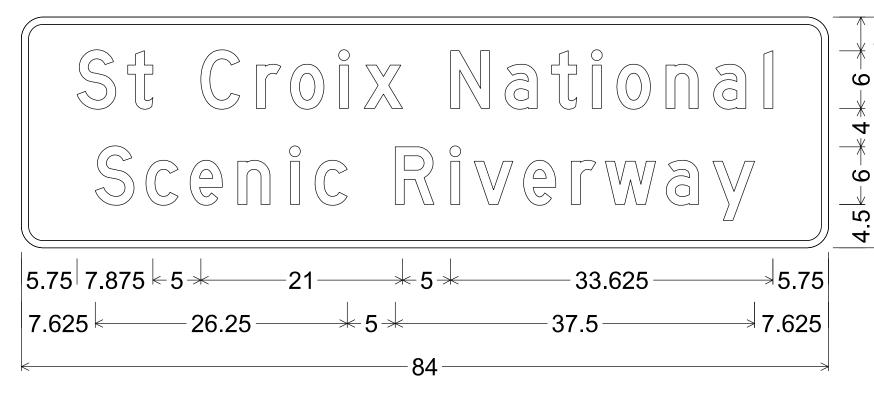
PLOT DATE : 21-MAR-2017 08:53

.

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

material is plywood but borders shall be rounded as shown. When base material is metal, the 5. Substitute appropriate numerals to the nearest quarter mile and optically adjust spacing to achieve proper balance.

Area sq. ft.		STANDARD SIGN
6.0		W057-52
12.0		
12.0		WISCONSIN DEPT OF TRANSPORTATION
12.0		APPROVED Matthew & Rauch
12.0		$f_{or}$ State Traffic Engineer
12.0		DATE 3/21/17 PLATE NO. W057-52.2
		SHEET NO: E
	PLOT SCALE : 8	.139174:1.000000 WISDOT/CADDS SHEET 42

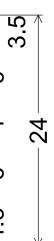


2.250" Radius, 0.750" Border

PROJECT NO: 8040-01-74	HWY: STH 70	COUNTY: BURNETT	PERMANENT SIGNING	
FILE NAME : C:\CAEfiles\Projects\tr_d8\8071a920.dgn		PLOT DATE : 2-DEC 2021 9:02	2 PLOT BY : dotc4c	PLOT NAME :

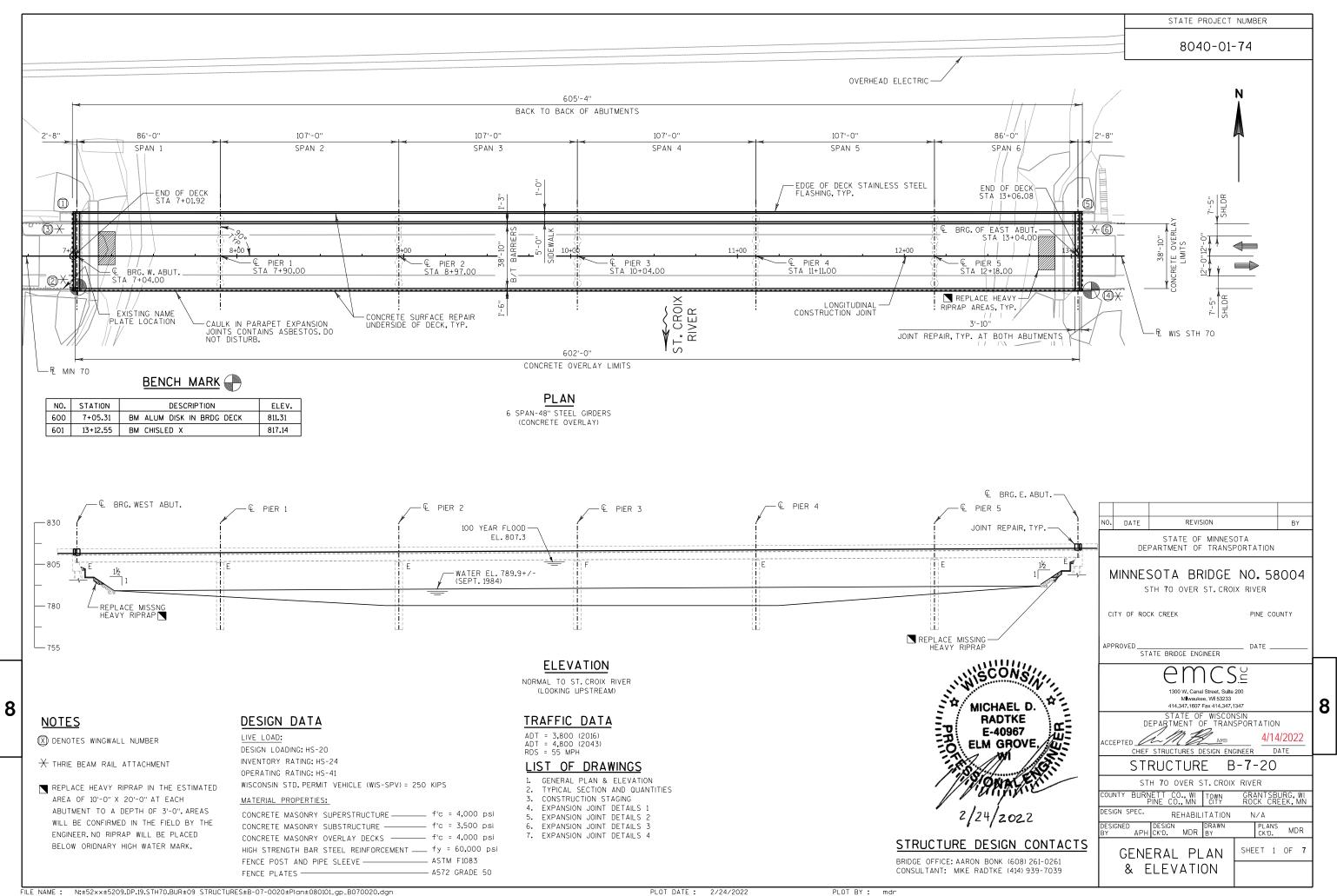
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NOTES
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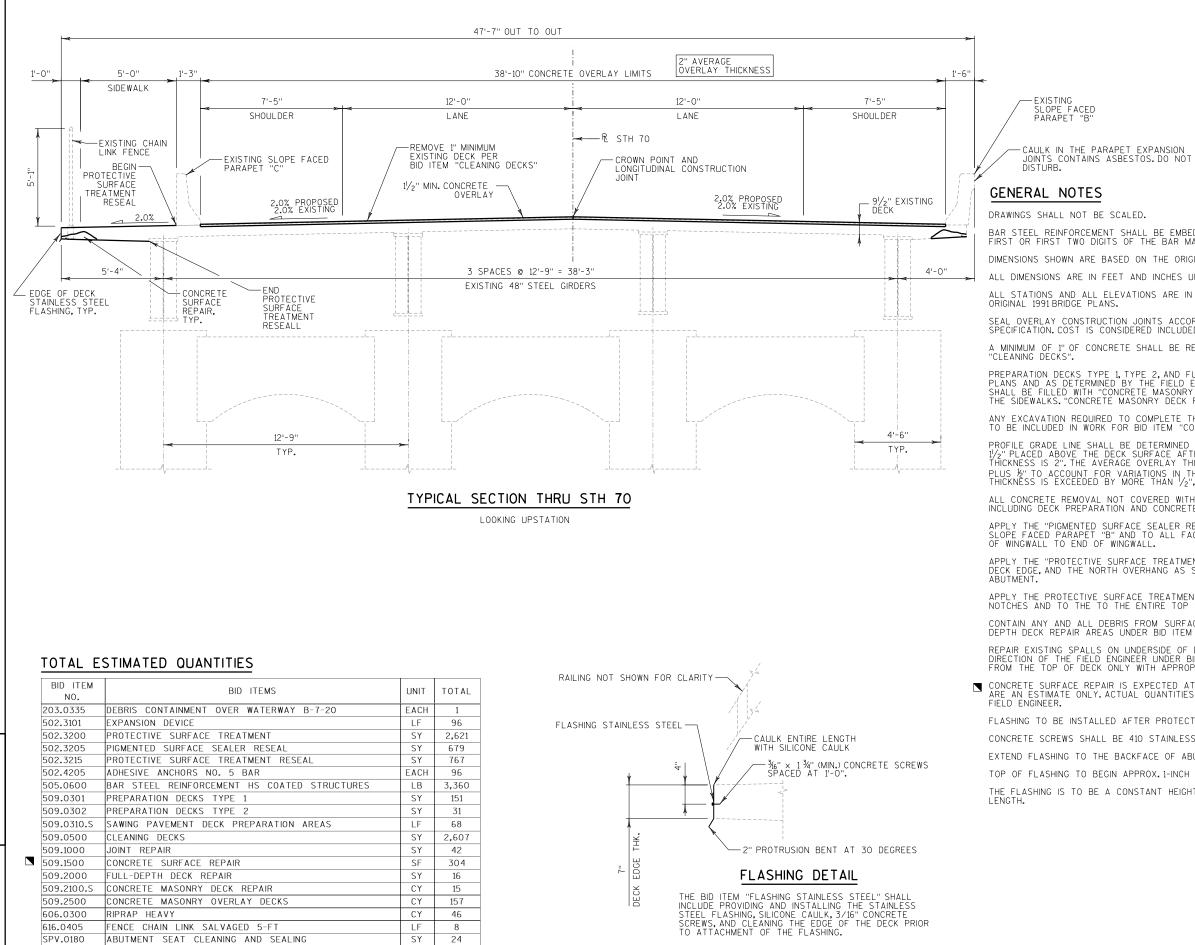
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1. Sign is Type II- Type H Reflective
2. Color:
    Background - Brown
    Message - White
3. Message Series - D
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LF

605

FLASHING STAINLESS STEEL

8

SPV.0090

### STATE PROJECT NUMBER

### 8040-01-74

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

ALL STATIONS AND ALL ELEVATIONS ARE IN FEET. ELEVATIONS SHOWN ARE REFERENCED FROM THE

SEAL OVERLAY CONSTRUCTION JOINTS ACCORDING TO SECTION 502.3.13.1 OF THE STANDARD SPECIFICATION. COST IS CONSIDERED INCLUDED IN BID ITEM "CONCRETE MASONRY OVERLAY DECKS". A MINIMUM OF 1" OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER BID ITEM

PREPARATION DECKS TYPE 1, TYPE 2, AND FULL DEPTH DECK REPAIR OUANTITIES ARE BASED ON THE PLANS AND AS DETERMINED BY THE FIELD ENGINEER.DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS" OR "CONCRETE MASONRY DECK REPAIR" AT THE SIDEWALKS. "CONCRETE MASONRY DECK REPAIR" WILL BE USED AT THE JOINT REPAIR AREAS.

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY OR THE JOINT REPAIR AT THE ABUTMENTS IS TO BE INCLUDED IN WORK FOR BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF  $1^{\prime}\!/_{2}"$  PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION EXPECTED AVERAGE OVERLAY THICKNESS IS 2". THE AVERAGE OVERLAY THICKNESS IS BASED ON THE MINIMUM OVERLAY THICKNESS PLUS & TO ACCOUNT FOR VARIATIONS IN THE DECK SURFACE IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

ALL CONCRETE REMOVAL NOT COVERED WITH CONCRETE OVERLAY SHALL BE DEFINED BY A SAW CUT INCLUDING DECK PREPARATION AND CONCRETE MASONRY DECK REPAIR AREAS AT THE SIDEWALK.

APPLY THE "PIGMENTED SURFACE SEALER RESEAL" TO THE TOPS AND INSIDE FACES OF THE EXTERIOR SLOPE FACED PARAPET "B" AND TO ALL FACES OF THE INTERIOR SLOPE FACED PARAPET "C" FROM END OF WINGWALL TO END OF WINGWALL.

APPLY THE "PROTECTIVE SURFACE TREATMENT RESEAL" ON THE 5'-O" WIDTH OF SIDEWALK, AT THE NORTH DECK EDGE, AND THE NORTH OVERHANG AS SHOWN ON THE TYPICAL SECTION FROM ABUTMENT TO

APPLY THE PROTECTIVE SURFACE TREATMENT TO THE TOP AND VERTICAL FACE OF THE PAVING NOTCHES AND TO THE TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY.

CONTAIN ANY AND ALL DEBRIS FROM SURFACE REPAIR AREAS ON THE PIERS, OVERHANGS, AND FULL DEPTH DECK REPAIR AREAS UNDER BID ITEM "DEBRIS CONTAINMENT OVER WATERWAY B-7-20".

REPAIR EXISTING SPALLS ON UNDERSIDE OF DECK OVERHANGS AS DETERMINED IN THE FIELD AND AT THE DIRECTION OF THE FIELD ENGINEER UNDER BID ITEM CONCRETE SURFACE REPAIR.COMPLETE ALL WORK FROM THE TOP OF DECK ONLY WITH APPROPRIATE DEBRIS CONTAINMENT SYSTEM.

■ CONCRETE SURFACE REPAIR IS EXPECTED AT THE SUPERSTRUCTURE AND AT THE ABUTMENTS, QUANTITIES ARE AN ESTIMATE ONLY. ACTUAL QUANTITIES TO BE DETERMINED IN THE FIELD AT THE DIRECTION OF THE

FLASHING TO BE INSTALLED AFTER PROTECTIVE SURFACE TREATMENT RESEAL APPLICATION.

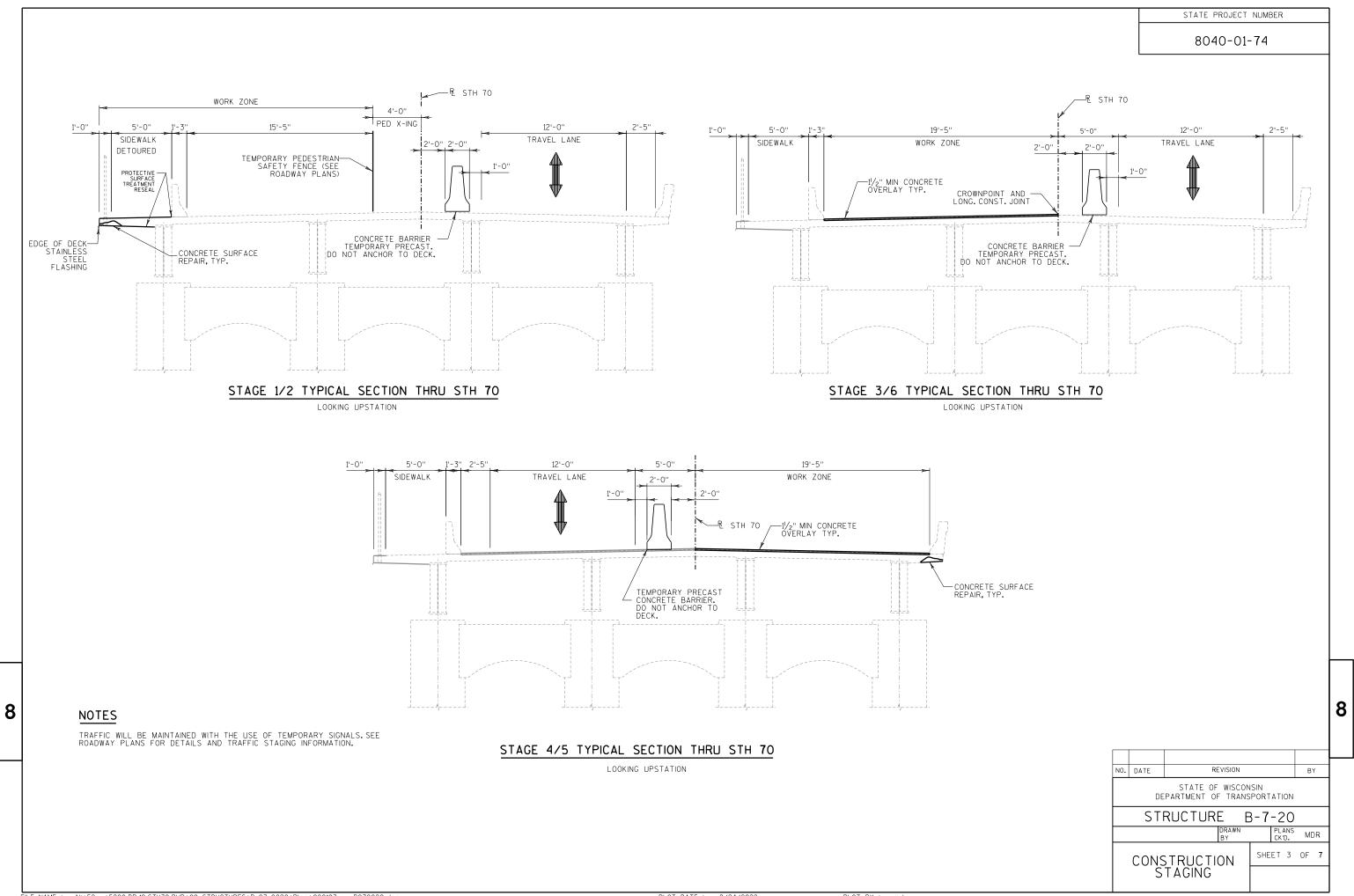
CONCRETE SCREWS SHALL BE 410 STAINLESS STEEL.

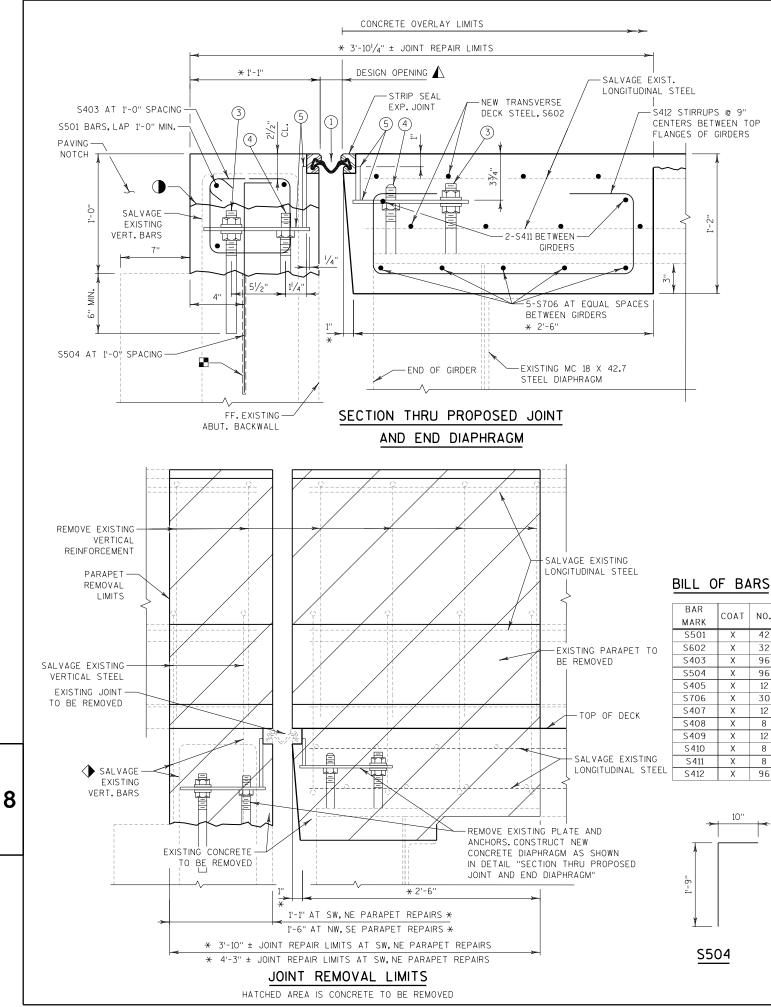
EXTEND FLASHING TO THE BACKFACE OF ABUTMENT DIAPHRAGM.

TOP OF FLASHING TO BEGIN APPROX. 1-INCH BELOW TOP OF DECK/SLAB SURFACE.

THE FLASHING IS TO BE A CONSTANT HEIGHT BASED ON THE THINNEST SLAB DEPTH OVER THE BRIDGE

N0.	DATE	R	REVISION								
	DE	ATION									
STRUCTURE B-7-20											
		MC	R								
۲ì	YPICA	L SECT	ION	SHE	ET 2	OF	7				
AND QUANTITIES											





# 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 FILED 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 & 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 EXTRUSTIONS SHALL BE HOT DIPPED GALVANIZED. SLIP-RESISTANT SURFACE IS APPLIED TO SIDEWALK COVER PLATES BYTHE MANUFACTURER AND THEN HOT DIPPED GALVANIZED TO THEIR RECOMMENDATIONS TO MAINTAIN THE INTEGRITY OF THIS SURFACE.

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

ALL MATERIAL IN THE EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS & HARDWARE WILL BE PAID FOR AT THE PRICE BID FOR "EXPANSION DEVICE B-7-20", LF.

PRESERVE AND PROTECT EXISTING REINFORCEMENT. IF EXISTING BARS ARE SEVERELY CORRODED SEE ENGINEER FOR REPLACEMENT OPTIONS. IF EXISTING BARS ARE DAMAGED DURING CONCRETE REMOVAL OPERATIONS, THE CONTRACTOR WILL REPLACE REINFORCEMENT AT THE DIRECTION OF THE ENGINEER AT NO ADDITIONAL EXPENSE TO THE OWNER.

JOINT OPENINGS ARE MEASURED PERPENDICULAR TO JOINT. SMALL JOINT OPENINGS DUE TO HIGH TEMPERATURE AT TIME OF CONSTRUCTION MAY REQUIRE NEOPRENE STRIP SEAL INSTALLATION INTO STEEL EXTRUSTION PRIOR TO SETTING THE EXPANSION JOINT.

ALL MATERIAL AND WORKMANSHIP IN THE FENCE POST SLEEVE ASSEMBLY IS INCLUDED IN THE PRICE BID FOR "FENCE CHAIN LINK SALVAGED 5-FT".FENCE POST SLEEVE TO BE MADE OF GALVANIZED STEEL CONFORMING TO ASTM A123.

ALL MATERIALS AND WORKMANSHIP NEED FOR THE FENCE REPAIR AND REPLACEMENT IS INCLUDED IN THE PRICE BID FOR "FENCE CHAIN LINK SALVAGED 5-FT". ALL FENCING COMPONENTS SHALL BE GALVANIZED STEEL CONFORMING TO ASTM A123.

	BAR MARK	COAT	N0.	LENGTH	BENT	LOCATION	¥
	S501	X	42	7'-7"		PAVING BLOCK LONG.	-
n İ	S602	X	32	25'-0"		TRANSVERSE DECK REINF.	
	S403	X	96	3'-4"	Х	PAVING BLOCK STIRRUP	
İ	S504	X	96	2'-6"	Х	PAVING BLOCK VERT.	
ĺ	S405	Х	12	12'-1"		EXPANSION JOINT LONG. BTW. GIRDERS	
	S706	Х	30	12'-1"		DIAPHRAGM LONG. BTW. GIRDERS	
	S407	Х	12	4'-10"	Х	SLOPE FACE PARAPET "B" UPPER VERT.	
	S408	X	8	4'-3"	Х	SLOPE FACE PARAPET "B" LOWER VERT.	
	S409	X	12	5'-0"	Х	SLOPE FACE PARAPET "C" UPPER VERT.	
	S410	Х	8	4'-0"	Х	SLOPE FACE PARAPET "C" LOWER VERT.	
3	S 411	Х	8	24'-3"		DIAPHRAGM LONG.	
EEL	S 4 1 2	Х	96	4'-2"	Х	DIAPHRAGM STIRRUP	
	→ 	10"	-	→ <u>4'</u> <u>↓</u>	+	1610	
	<u>55</u>	04			7	S408 S409	," R.

FILE NAME : N:±52××±5209.DP.19.STH70.BUR±09 STRUCTURES±B-07-0020±Plan±080104\_×j\_B070020.dgn

### STATE PROJECT NUMBER

## 8040-01-74

# LEGEND

1 NEOPRENE STRIP SEAL (4 - INCH) AND STEEL EXTRUSIONS.

(2) STUDS 5/8" DIA. X 63/6" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.

(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 34" DIA. THREADED ROD WITH 2 NUTS AND PLATE WASHERS. WELD THREADED ROD TO TOP FLANGE OR ATTACH BY BOLTING THRU FLANGE ON ABUTMENT SIDE, GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN.

(4)  $\frac{3}{4}$ " dia. Threaded rod with nut. Tack weld nut to NO.5.

(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 & 1" DIA HOLE FOR NO.4.

6 Galvanized plate  $\frac{3}{8}$  " X  $10\frac{1}{2}$  " X 2'-2" long with holes for No. 7. Bend as shown.

 3/4" DIA. X 11/2" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS 7/6" BELOW PLATE SURFACE.
 3/4" DIA. X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.

(9)  $\frac{3}{4}$ " DIA. X 2<sup>1</sup>/4" GALVANIZED THREADED COUPLING.

(1) 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.

(1) SIDEWALK COVER PLATE 3/" X 2'-0" X 5'-0". GALVANIZE PLATE AFTER SLIP-RESISTANT SURFACE IS APPLIED.

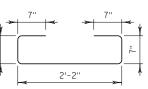
 (12) REMOVE AND REPLACE FENCE POST SLEEVE.FENCE POST TO REMAIN. ATTACH FENCE POST TO SLEEVE USING %" CARRIAGE BOLT.
 ▲ BLOCK OUT CONCRETE 2" EITHER SIDE OF JOINT OPENING.

JOINT OPENING DIM. ALONG SKEW PLUS 1/2"

Adhesive anchors NO.5 BAR. EMBED 1'-0" IN CONCRETE. TURN 10" LEG AS NECESSARY TO FIT.

● OPTIONAL CONSTRUCTION JOINT. I" MIN BELOW EXISTING REINFORCEMENT.
 \* DIMENSIONS GIVEN ARE NORMAL TO € OF SUBSTRUCTURE UNIT.

◆ EXISTING BARS ARE LIKELY TO BE CORRODED AND/OR DAMAGED DURING CONCRETE REMOVAL. SALVAGE AND INCORPORATE AS MUCH REBAR AS PRACTICAL. SUPPLEMENT WITH THE BARS INDICATED BY



S412

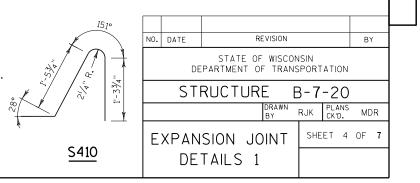


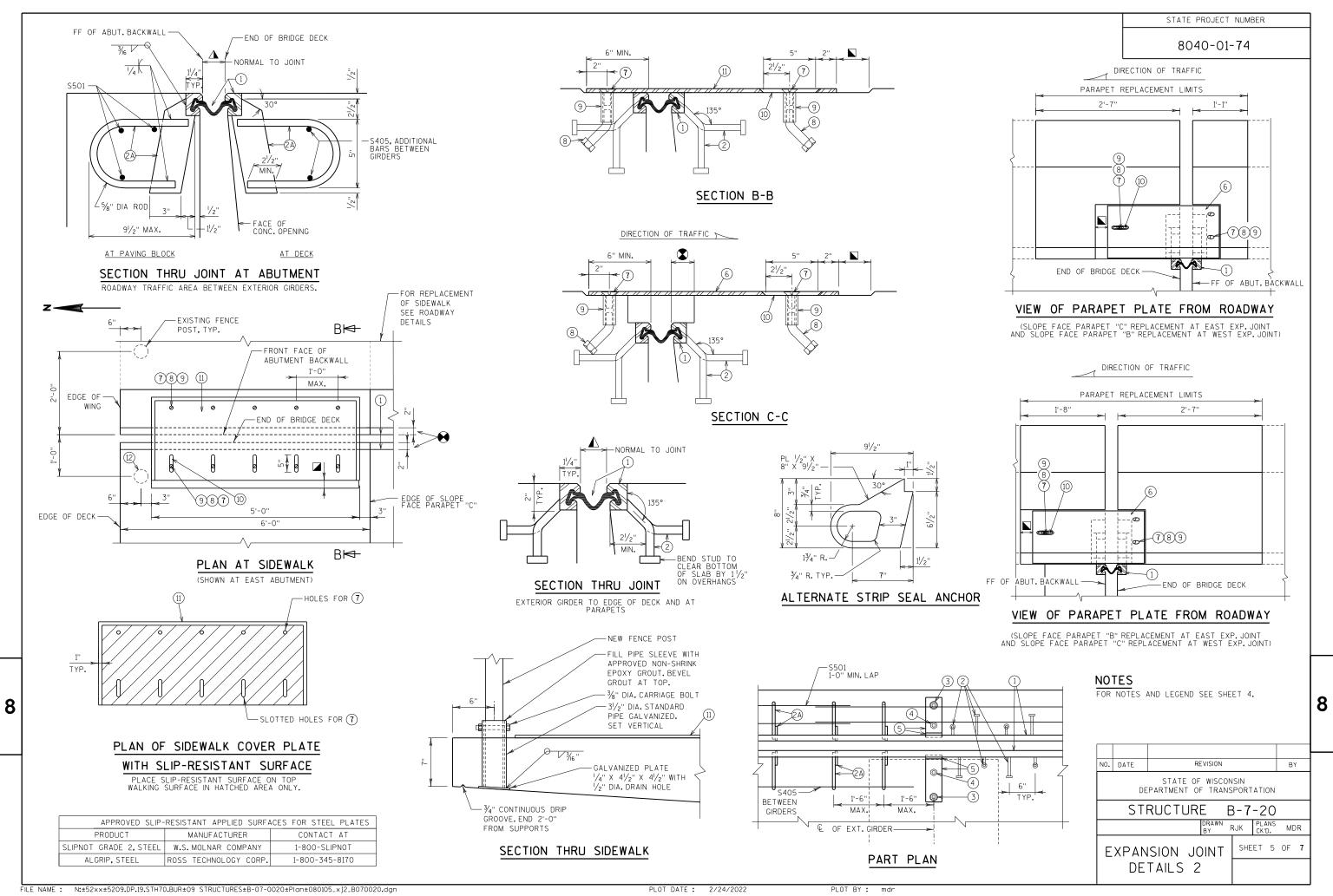
S403

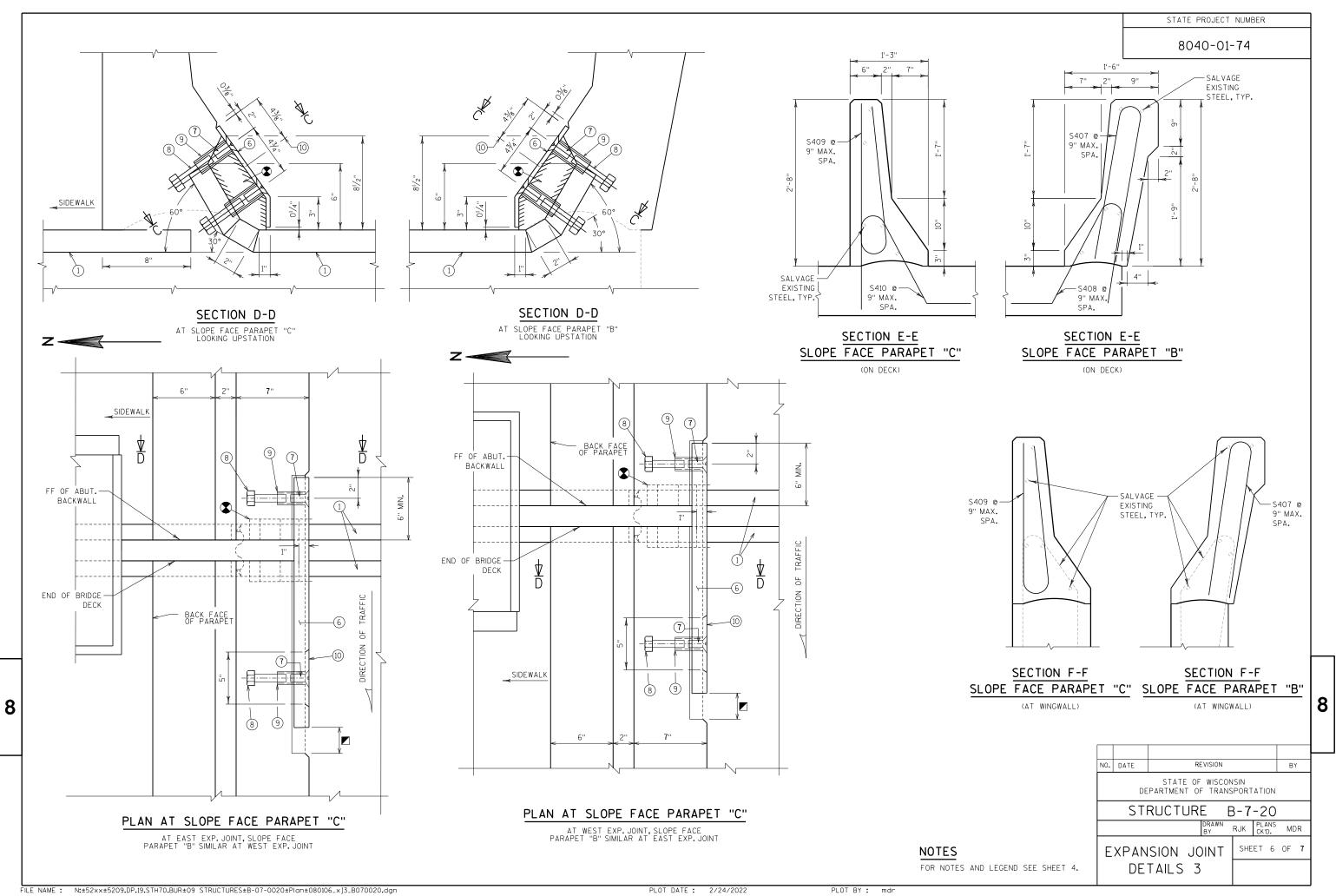
# ▲ TEMPERATURE TABLE

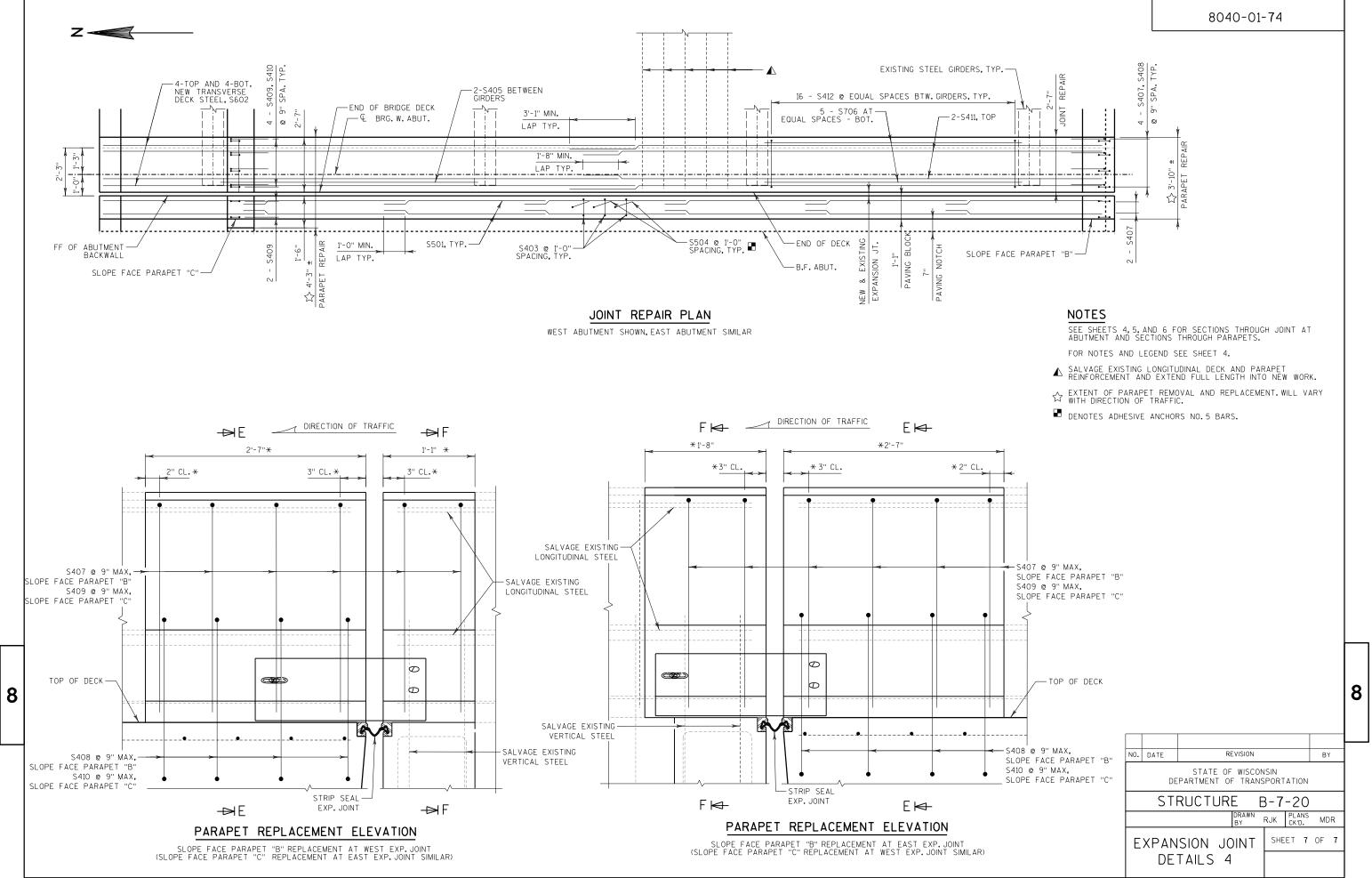
SHADED UNDERSIDE DECK TEMP.(°F)	JOINT OPENING (NORMALTO JT.)
90°	11/4"
80°	13/8"
70°	15/8''
60°	2"
50°	21/8"
40°	23/8"
30°	25/8"
TEMPERATURE SETTIN	IC IS TAKEN EROM

TEMPERATURE SETTING IS TAKEN FROM EXISTING 1991 PLANS. 8









## STATE PROJECT NUMBER

STH 70 ST/	A 13+06 - STA 15	5+57 LT	(STAGE 3)	

	AREA (SF)			INCREMENTAL VOL	(CY) (UNADJUSTED)	CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE	
				NOTE 1	NOTE 2	NOTE 1	NOTE 3	NOTE 4	
13+06	0	31	0	0	0	0	0	0	
13+21	15	32	0	18	0	18	0	18	
13+27	6	46	0	9	0	27	0	27	
13+50	23	21	0	29	0	56	0	56	
13+54	4	21	0	3	0	59	0	59	
13+58	4	20	0	3	0	62	0	62	
13+79	21	20	0	16	0	78	0	78	
14+00	21	24	0	17	0	95	0	95	
14+04	4	25	0	4	0	99	0	99	
14+27	23	28	0	22	0	121	0	121	
14+50	23	26	0	23	0	144	0	144	
14+52	2	26	0	1	0	145	0	145	
14+69	17	24	0	16	0	161	0	161	
14+77	8	21	0	6	0	167	0	167	
14+87	11	20	1	8	0	175	0	175	
15+00	13	19	1	9	0	184	0	184	
15+23	23	17	0	15	0	199	0	199	
15+41	18	18	0	12	0	211	0	211	
15+57	16	15	0	10	0	221	0	221	
		COLUMN	TOTALS	221	0				

#### STH 70 STA 13+06 - STA 15+23 RT (STAGE 4)

<u>SIN /0 SIF</u>	STH 70 STA 13+06 - STA 15+23 RT (STAGE 4)									
		AREA	A (SF)	INCREMENTAL VOL	(CY) (UNADJUSTED)		CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE		
				NOTE 1	NOTE 2	NOTE 1	NOTE 3	NOTE 4		
13+06	0	32	0	0	0	0	0	0		
13+21	15	38	0	19	0	19	0	19		
13+27	6	39	0	8	0	27	0	27		
13+50	23	21	0	26	0	53	0	53		
13+54	4	21	0	3	0	56	0	56		
13+58	4	21	0	3	0	59	0	59		
13+79	21	22	0	17	0	76	0	76		
14+00	21	26	0	19	0	95	0	95		
14+04	4	27	0	4	0	99	0	99		
14+27	23	26	0	22	0	121	0	121		
14+50	23	12	9	17	4	138	5	133		
14+52	2	11	9	1	1	139	6	133		
14+69	17	10	7	7	5	146	12	134		
14+77	8	10	6	3	2	149	15	134		
14+87	11	10	5	4	2	153	18	135		
15+00	13	10	4	5	2	158	21	137		
15+23	23	17	0	11	2	169	24	145		
		COLUMN	TOTALS	169	18	J				

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL. SALVAGED UNUSABLE PAVEMENT MATERIAL IS CALCULATED ON THE SUMMARY SHEET IN SECTION 3 OF THE PLANS.
2 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME, SALVAGED UNUSABLE PAVEMENT MATERIAL IS CALCULATED ON THE SUMMARY SHEET.
3 - EXPANDED FILL	(UNEXPANDED FILL) * (FILL FACTOR)
4 - MASS ORDINATE	CUT - (EXPANDED FILL); PLUS INDICATES AN EXCESS OF MATERIAL. SEE SUMMARY SHEET IN SECTION 3 FOR MASS ORDINATE ACCOUNTING FOR SALVAGED UNUSABLE PAVEMENT MATERIAL.

PROJECT NO: 8040-01-74	HWY: STH 70			EARTHWORK		
FILE NAME : P:\52XX\5209.DP.19.STH70.BUR\CADDS\80400174\SHEETSPLAN\090101-E	W.DWG	PLOT DATE :	2/25/2022 1:12 PM	PLOT BY :	ERIK OLESON	PLOT NAME :

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STH 70 STA	5+41 -	STA 1	7+00	RT (	(STAGE	5)
0		0.73			1011102	<u>v</u> /

		AREA	4 (SF)	INCREMENTAL VOL	REMENTAL VOL (CY) (UNADJUSTED) CUMULATIVE VOL (CY)			1
STATION	DISTANCE	CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
				NOTE 1	NOTE 2	NOTE 1	NOTE 3	NOTE 4
5+41	0	14	0	0	0	0	0	0
5+50	9	14	0	4	0	4	0	4
5+66	16	12	0	8	0	12	0	12
5+81	15	10	0	6	0	18	0	18
5+91	10	11	0	4	0	22	0	22
5+94	2	12	0	1	0	23	0	23
6+00	6	12	0	3	0	26	0	26
6+19	19	14	0	9	0	35	0	35
6+44	25	26	0	19	0	54	0	54
6+50	6	26	0	6	0	60	0	60
6+58	8	48	0	14	0	74	0	74
6+87	29	46	0	50	0	124	0	124
7+00	13	30	0	18	0	142	0	142
		COLUMN	TOTALS	142	0			

<u>STH 70 STA</u>	STH 70 STA 5+94 - STA 7+00 LT (STAGE 6)									
		AREA	A (SF)	INCREMENTAL VOL	(CY) (UNADJUSTED)		CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE		
				NOTE 1	NOTE 2	NOTE 1	NOTE 3	NOTE 4		
5+94	0	10	0	0	0	0	0	0		
6+00	6	9	0	2	0	2	0	2		
6+19	19	8	0	6	0	8	0	8		
6+44	25	23	0	14	0	22	0	22		
6+50	6	23	0	5	0	27	0	27		
6+58	8	43	0	13	0	40	0	40		
6+87	29	30	0	39	0	79	0	79		
7+00	13	30	0	15	0	94	0	94		
		COLUMN	TOTALS	94	0					

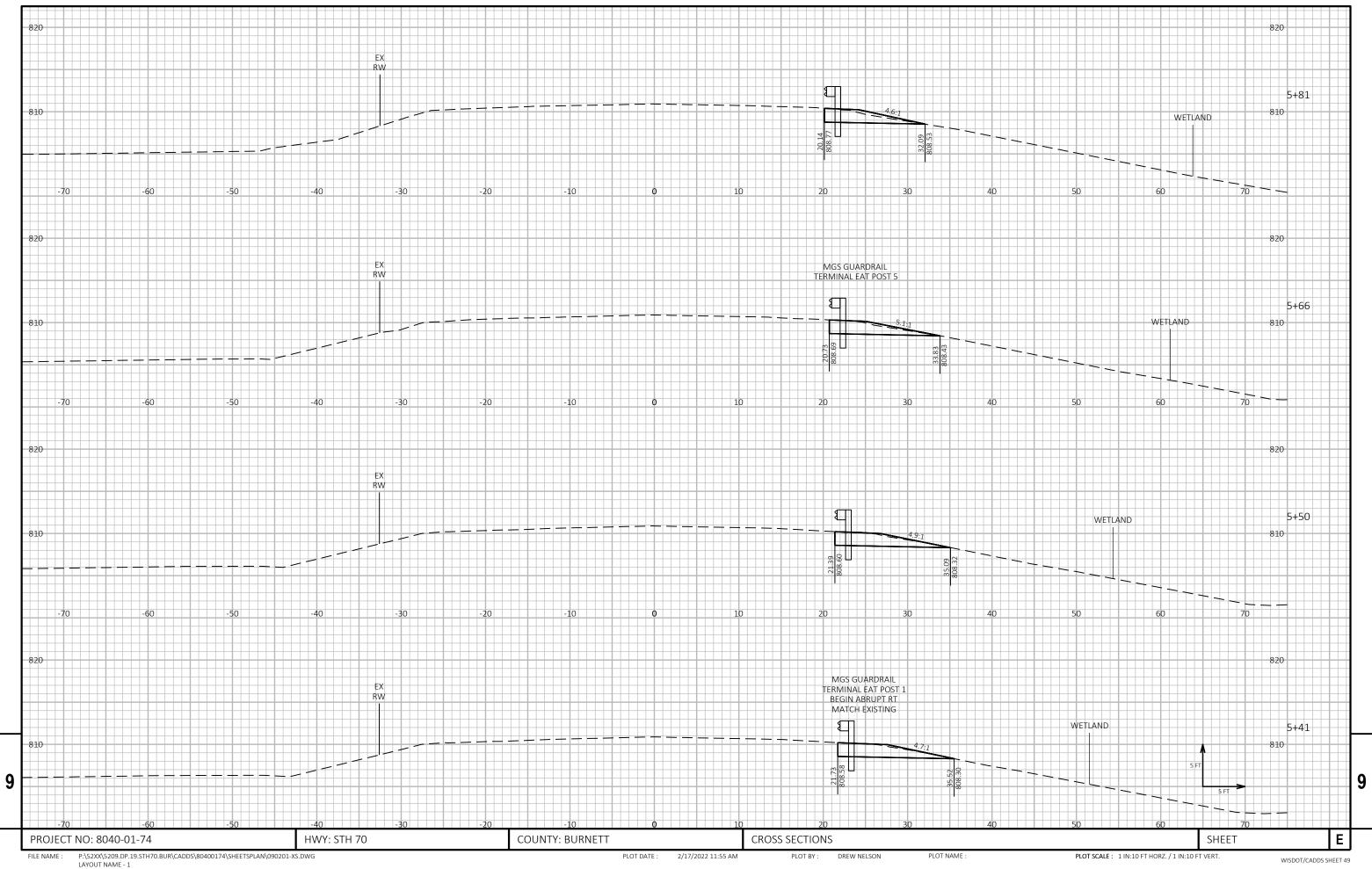
NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL. SALVAGED UNUSABLE PAVEMENT MATERIAL IS CALCULATED ON THE SUMMARY SHEET IN SECTION 3 OF THE PLANS.
2 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME, SALVAGED UNUSABLE PAVEMENT MATERIAL IS CALCULATED ON THE SUMMARY SHEET.
3 - EXPANDED FILL	(UNEXPANDED FILL) * (FILL FACTOR)
4 - MASS ORDINATE	CUT - (EXPANDED FILL); PLUS INDICATES AN EXCESS OF MATERIAL. SEE SUMMARY SHEET IN SECTION 3 FOR MASS ORDINATE ACCOUNTING FOR SALVAGED UNUSABLE PAVEMENT MATERIAL.

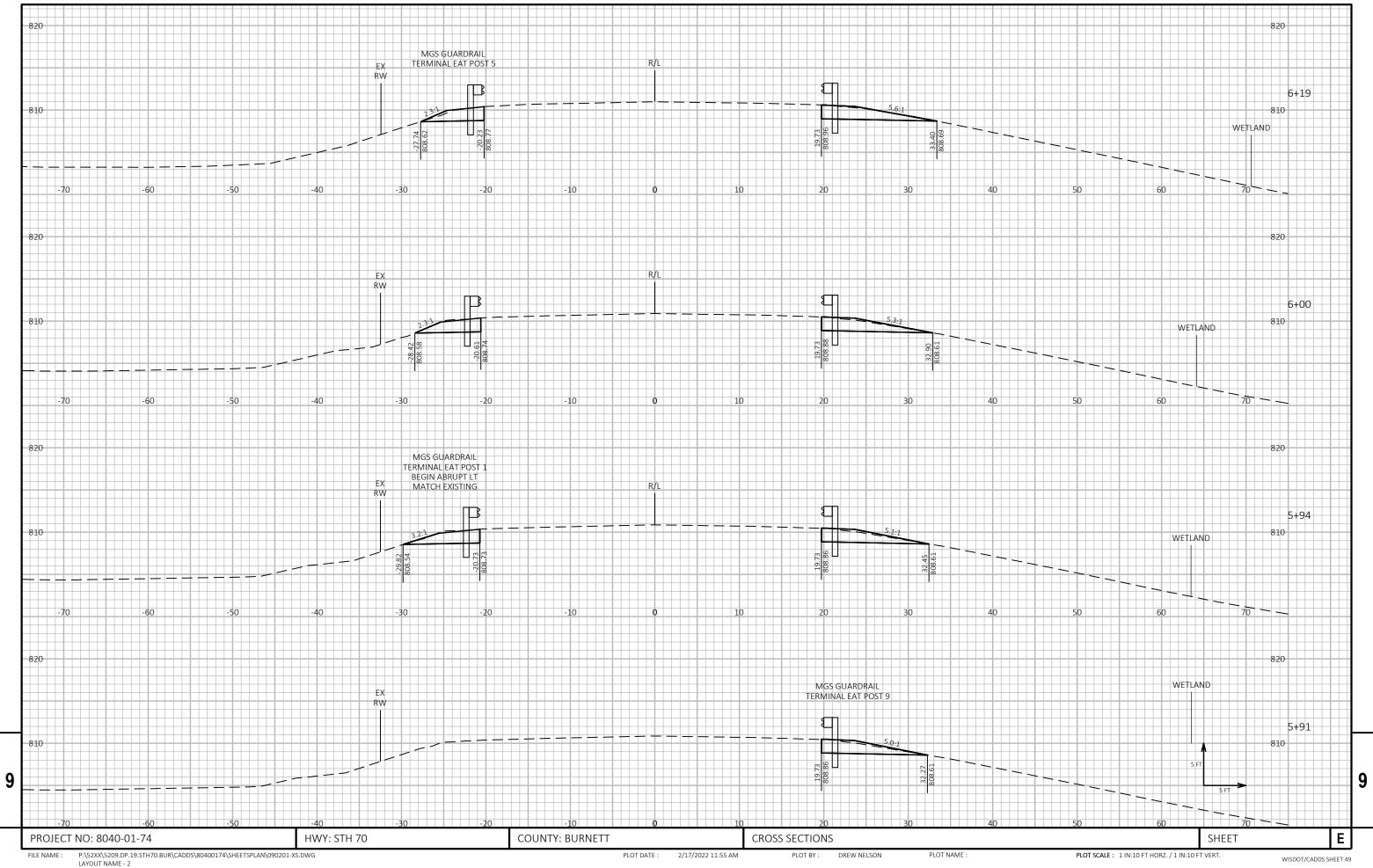
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-	FILE NAME :	P:\52XX\5209.DP.19.STH70.BUR\CADDS\80400174\SHEETSPLAN\090101-E			PLOT DATE :	2/25/2022 1:13 PM	PLOT BY :	ERIK OLESON	PLOT NAME :

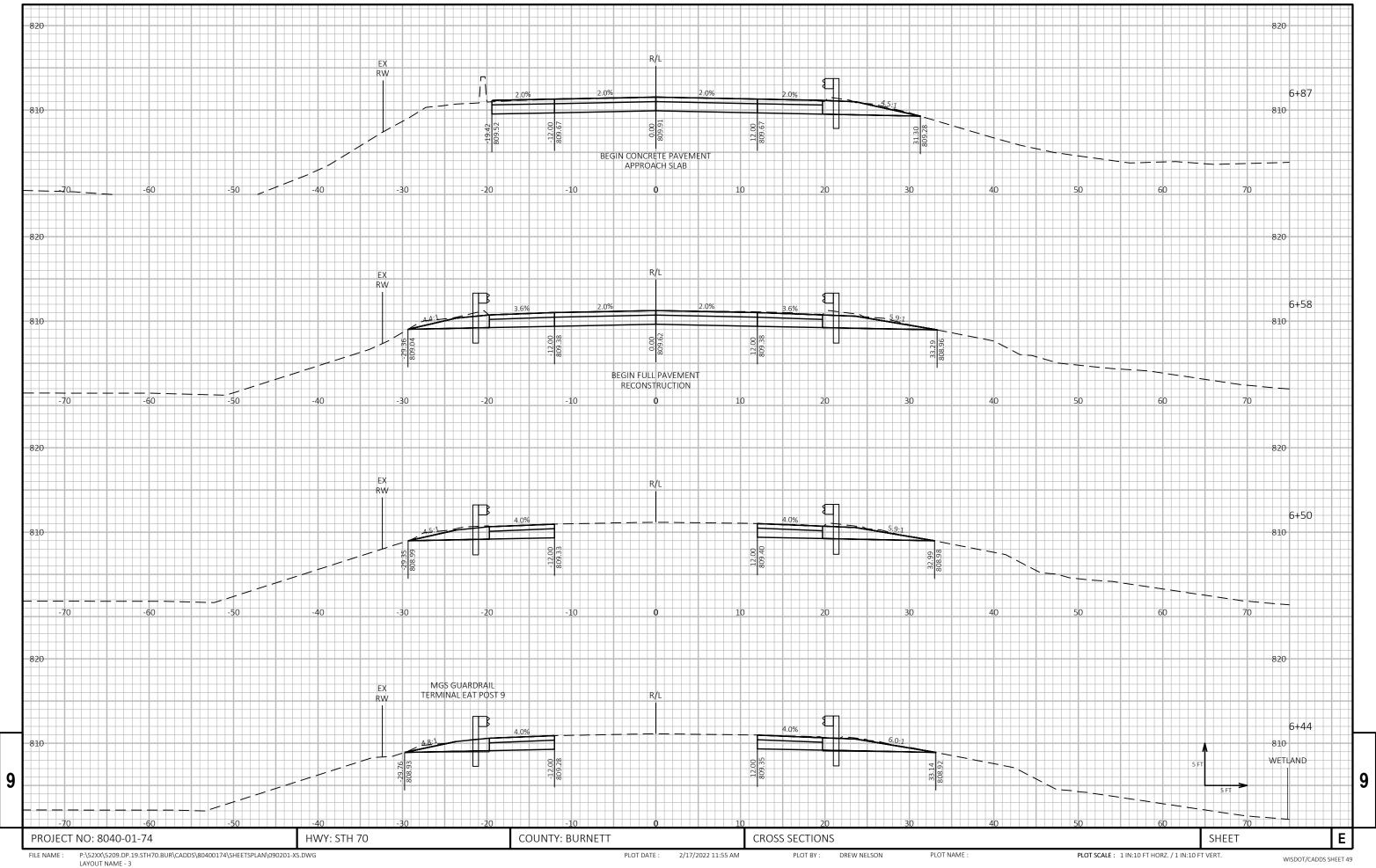
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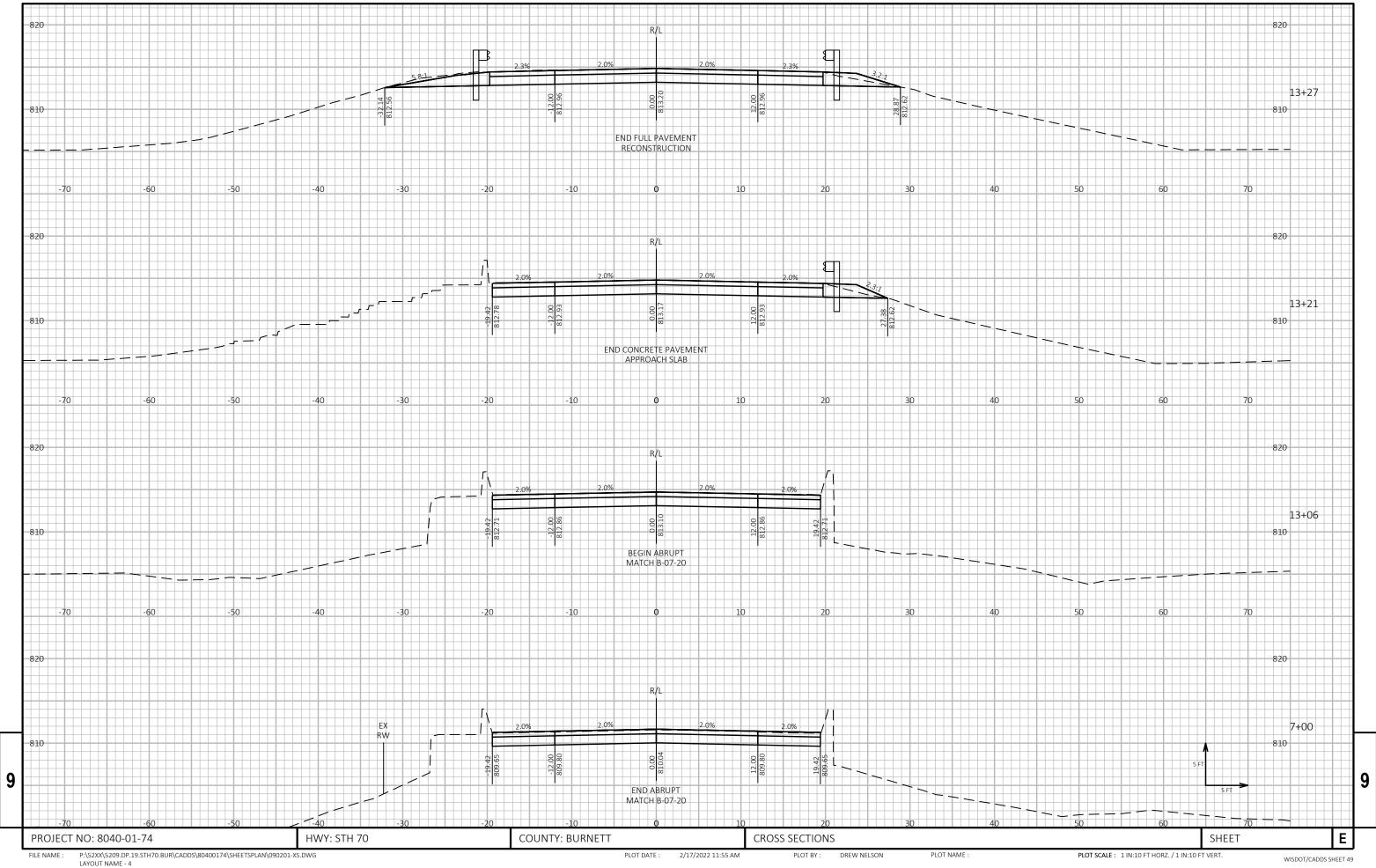
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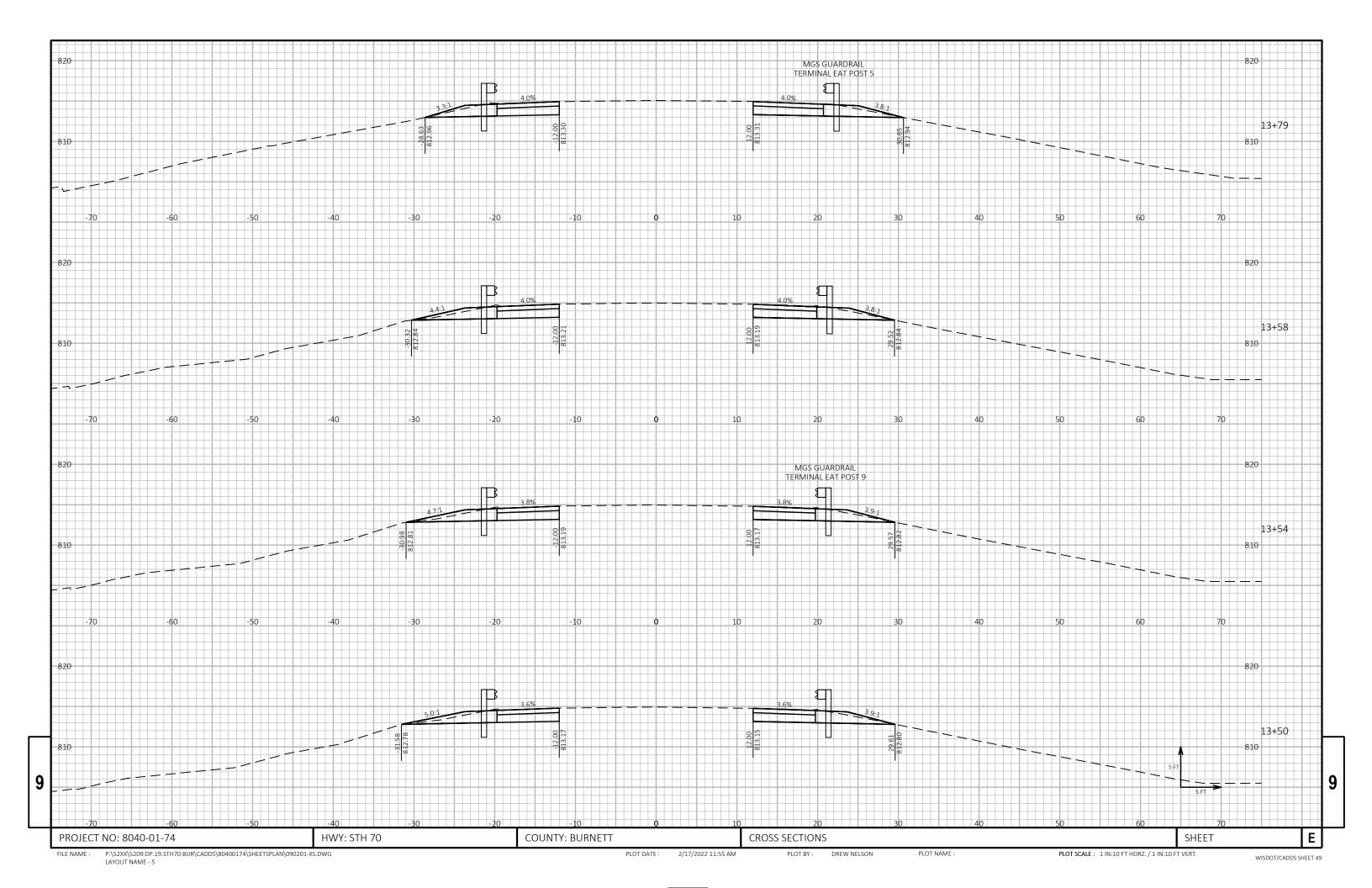
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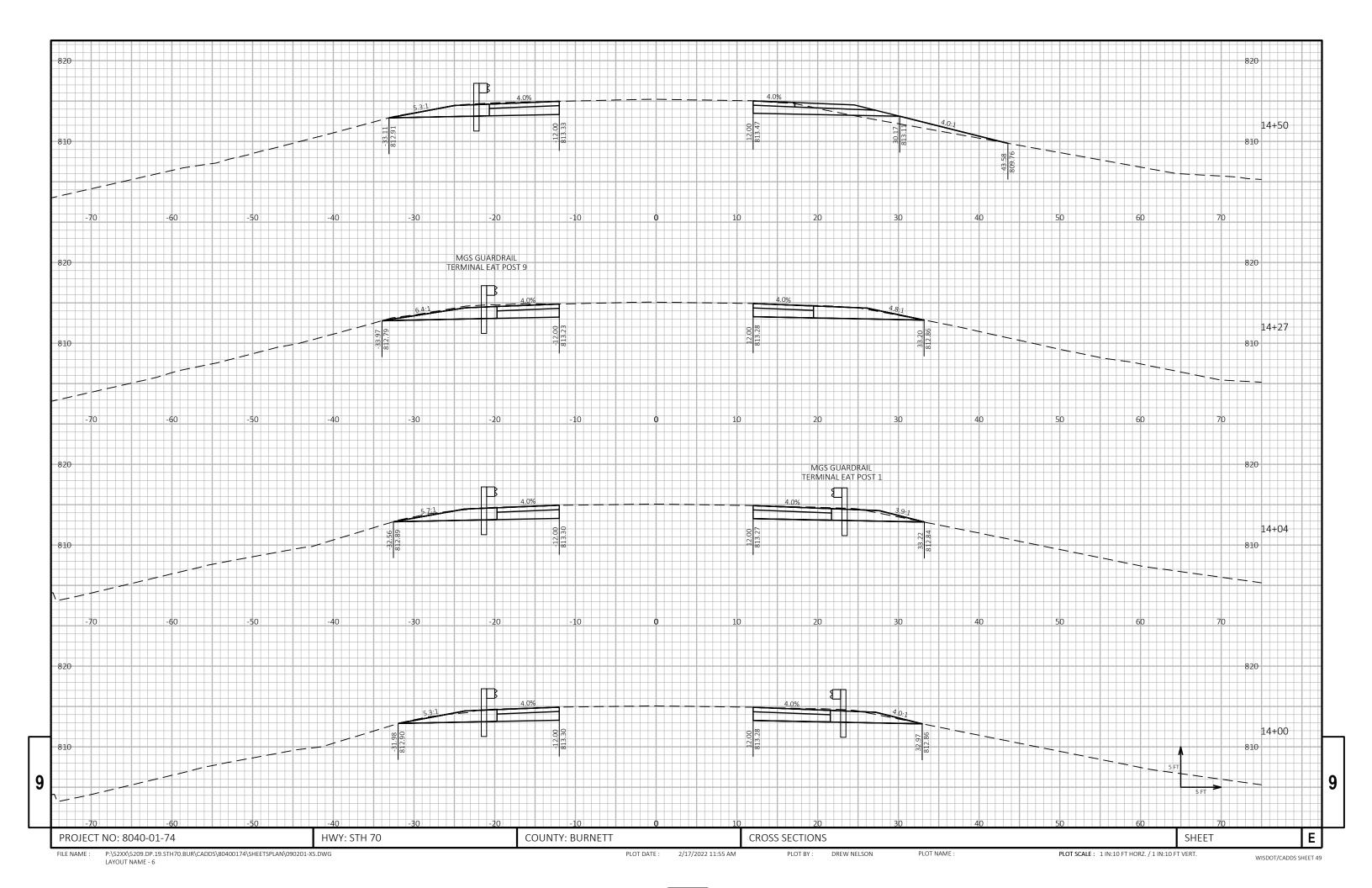


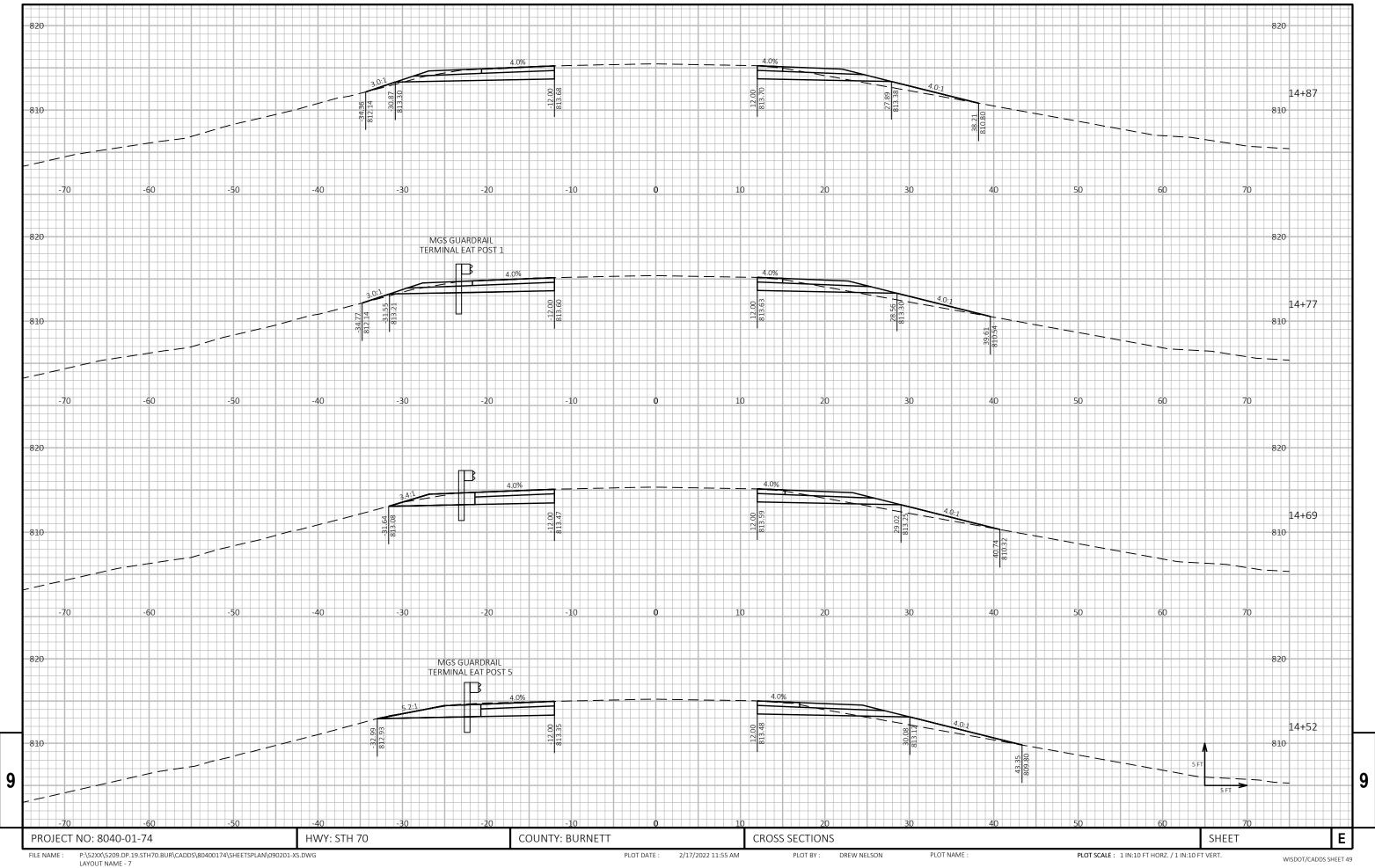


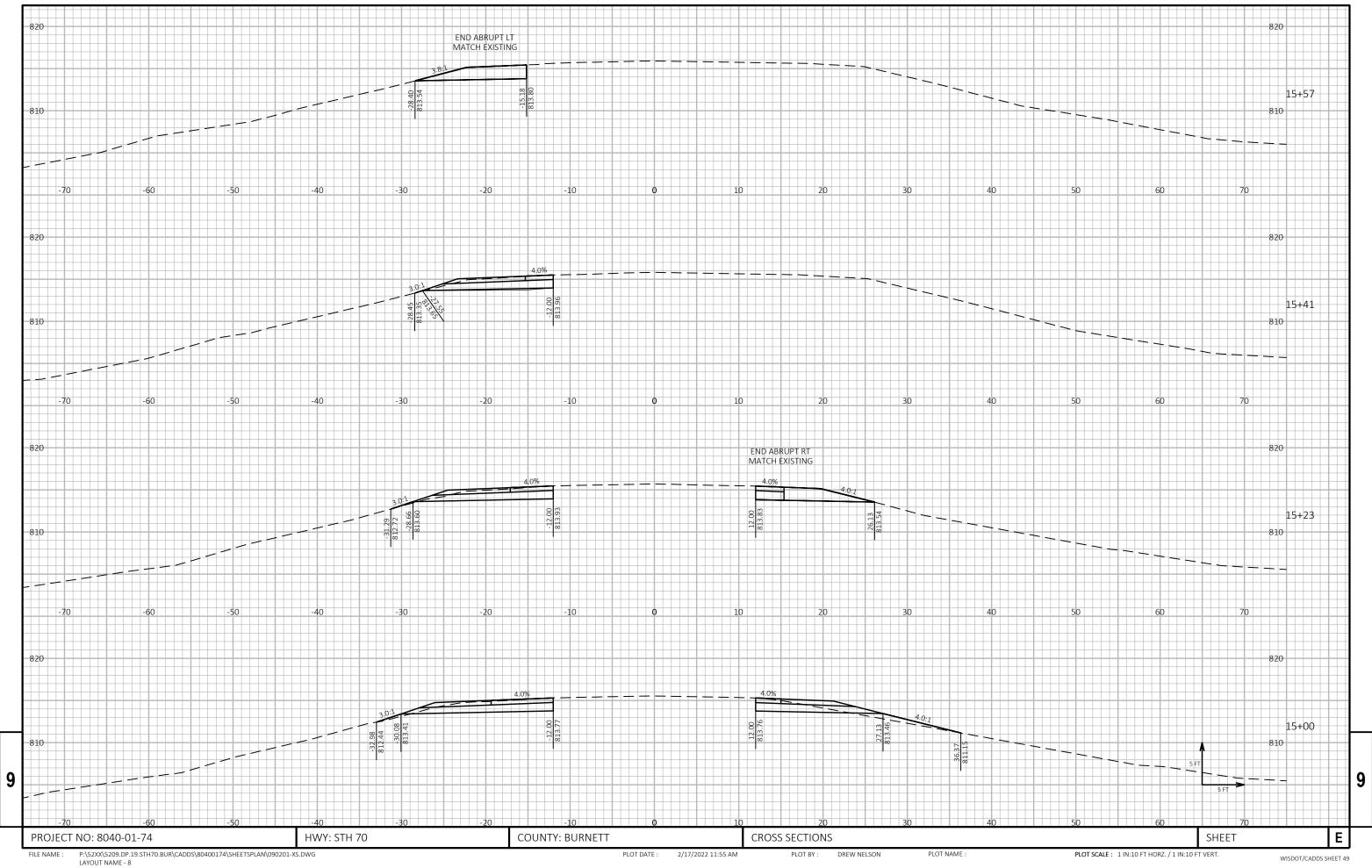


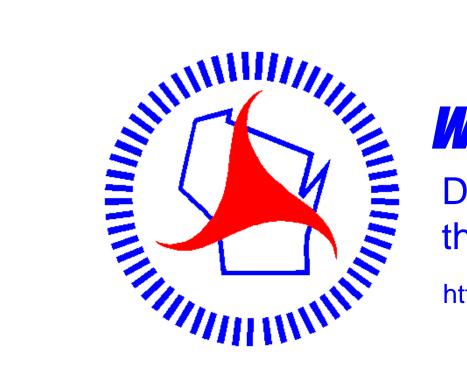












# Wisconsin Department of Transportation

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