FEDERAL PROJECT WIS **JULY 2019** STATE PROJECT **STATE OF WISCONSIN** PROJECT CONTRACT ORDER OF SHEETS WISC 2019501 7510-00-61 PROJECT ID: **DEPARTMENT OF TRANSPORTATION** Typical Sections and Details Section No. Estimate of Quantities Section No. Miscellaneous Quantities PLAN OF PROPOSED IMPROVEMENT Standard Detail Drawings Section No. **CITY POINT - DEXTERVILLE** Sign Plates Section No. CI Section No. Structure Plans 10-00-61 **YELLOW RIVER BRIDGE B-71-20 STH 54** TOTAL SHEETS = 32 WOOD STATE PROJECT NUMBER 7510-00-61 R-3-E R-4-E SWAMP RD MEADOWLARK LN ) 80 STRUCTURE B-71-0020 DESIGN DESIGNATION STH 54 OVER YELLOW RIVER A.A.D.T. 2019 = 1100 A.A.D.T. 2029 = 1200 D.H.V. = 60/40 Đ.D. = 19.1% DESIGN SPEED = 60 **ESALS** T-22-N **Dexterville** CONVENTIONAL SYMBOLS PROFILE CORPORATE LIMITS 1////// ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE LOT LINE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH STATE OF WISCONSIN **EXISTING RIGHT OF WAY** GRADE ELEVATION DEPARTMENT OF TRANSPORTATION PROPOSED OR NEW R/W LINE CULVERT (Profile View) SLOPE INTERCEPT PREPARED BY 0 UTILITIES Surveyor REFERENCE LINE ELECTRIC PHILIP SAEGER Designer **EXISTING CULVERT** LONE\$OME TIM HANLEY FIBER OPTIC Project Manage PROPOSED CULVERT CHERYL SIMON GAS (Box or Pipe) NICHOLE LYSNE SANITARY SEWER COMBUSTIBLE FLUIDS LAYOUT STORM SEWER COORDINATES ON THIS PLAN ARE SCALED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), WOOD COUNTY, NAD 1983 (2011) TELEPHONE MARSH AREA UTILITY PEDESTAL TOTAL NET LENGTH OF CENTERLINE = 0.04 MILES POWER POLE q WOODED OR SHRUB AREA TELEPHONE POLE SAEGER, PHILIP HENRY PLOT NAME : FILE NAME: N:\PDS\C3D\75100031\SHEETSPLAN\010101-TI.DWG PLOT DATE: 3/22/2018 8:51 AM PLOT BY:

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## **GENERAL NOTES**

THE LOCATION OF EXISTING AND PROPOSED UTILITY FACILITES ARE NOT SHOWN ON THE PLANS. THERE MAY BE UTILITY FACILITIES WITHIN THE PROJECT AREA. NO CONFLICTS ARE ANTICIPATED.

THERE ARE NO KNOWN UTILITIES ON STRUCTURE B-71-0020.

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY HIS OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

WORK WITH UTMOST CARE AND PROTECT ALL SURVEY MARKERS.
REMOVAL OF ANY SURVEY MARKER IS TO BE WITH THE APPROVAL OF THE ENGINEER.

## **UTILITIES**

#### **TDS TELECOM - COMMUNICATION LINE**

STEVE JAKUBIEC 10 COLLEGE AVE, SUITE 218A APPLETON. WI 54911

PHONE: (920) 882-4166 WORK

E-MAIL: STEVE.JAKUBIEC@TDSTELECOM.COM

#### **ALLIANT ENERGY - ELECTRICITY**

MICHAEL BROLIN

4902 NORTH BILTMORE LANE

MADISON, WI 53713

PHONE: (608) 458-4871 WORK

HONE: (000) 450 4074 MORK

#### **OAKDALE ELECTRIC COOPERATIVE - ELECTRICITY**

ROY BOYLES P.O. BOX 128

OAKDALE, WI 54649-0128 PHONE: (608) 372-8851 WORK

E-MAIL: RBOYLES@OAKDALEREC.COM

## **ALLIANT ENERGY - GAS/PETROLEUM**

MICHEAL BROLIN

4902 NORTH BILTMORE LANE

MADISON, WI 53713

PHONE: (608) 458-4871 WORK

## **Runoff Coefficient Table**

					Hydrologic Soil Group							
	А		В		С		D					
					Slop	e Rang	e (Per	cent)				
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	0.08	0.16	0.22	0.12	0.20	0.27	0.15	0.24	0.33	0.19	0.28	0.38
Row Crops	0.22	0.30	0.38	0.26	0.34	0.44	0.30	0.37	0.50	0.34	0.41	0.56
Median Strip-Turf	0.19	0.20	0.24	0.19	0.22	0.26	0.20	0.23	0.30	0.20	0.25	0.30
Median Strip-run	0.24	0.26	0.30	0.25	0.28	0.33	0.26	0.30	0.37	0.27	0.32	0.40
Side Slope Turf			0.25			0.27			0.28			0.30
Side Slope Tull			0.32			0.34			0.36			0.38
Pavement												
Asphalt						0.70	- 0.95					
Concrete	0.80 - 0.95											
Brick	0.70 - 0.80											
Drives, Sidewalks	0.75 - 0.85											
Roofs	0.75 - 0.95											
Gravel Roads, Shoulders						0.40	- 0.60					

Total Project Area = 0.16 Acres

Total Area Expected To Be Disturbed By Construction Activities = 0.00 Acres

## ENVIRONMENTAL CONTACTS

WI DEPT. OF NATURAL RESOURCES

473 Griffith Drive

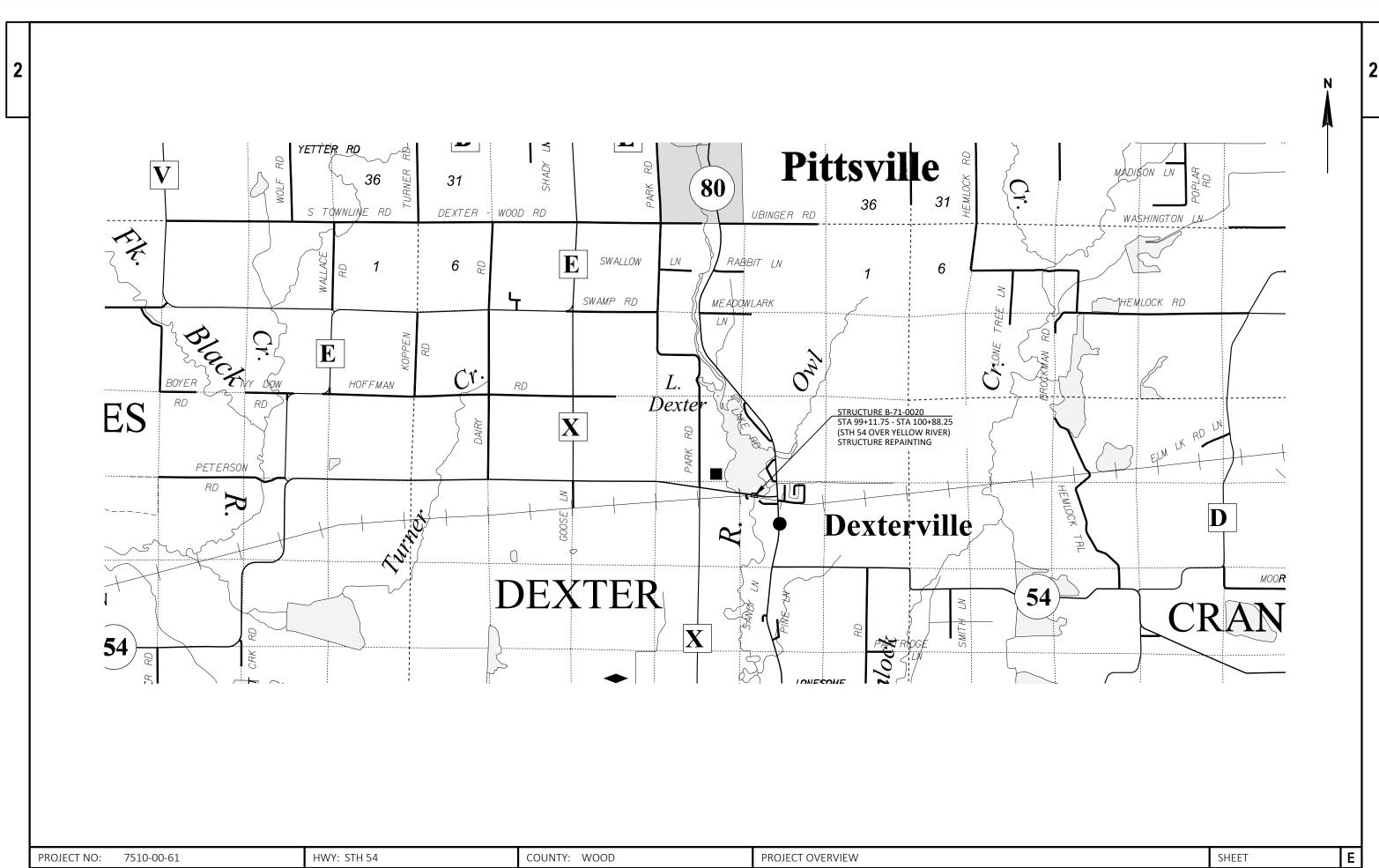
Wisconsin Rapids, WI 54494 ATTN: Brad Betthauser PHONE: (715) 421-7851

E-MAIL: Bradley.Betthauser@wisconsin.gov

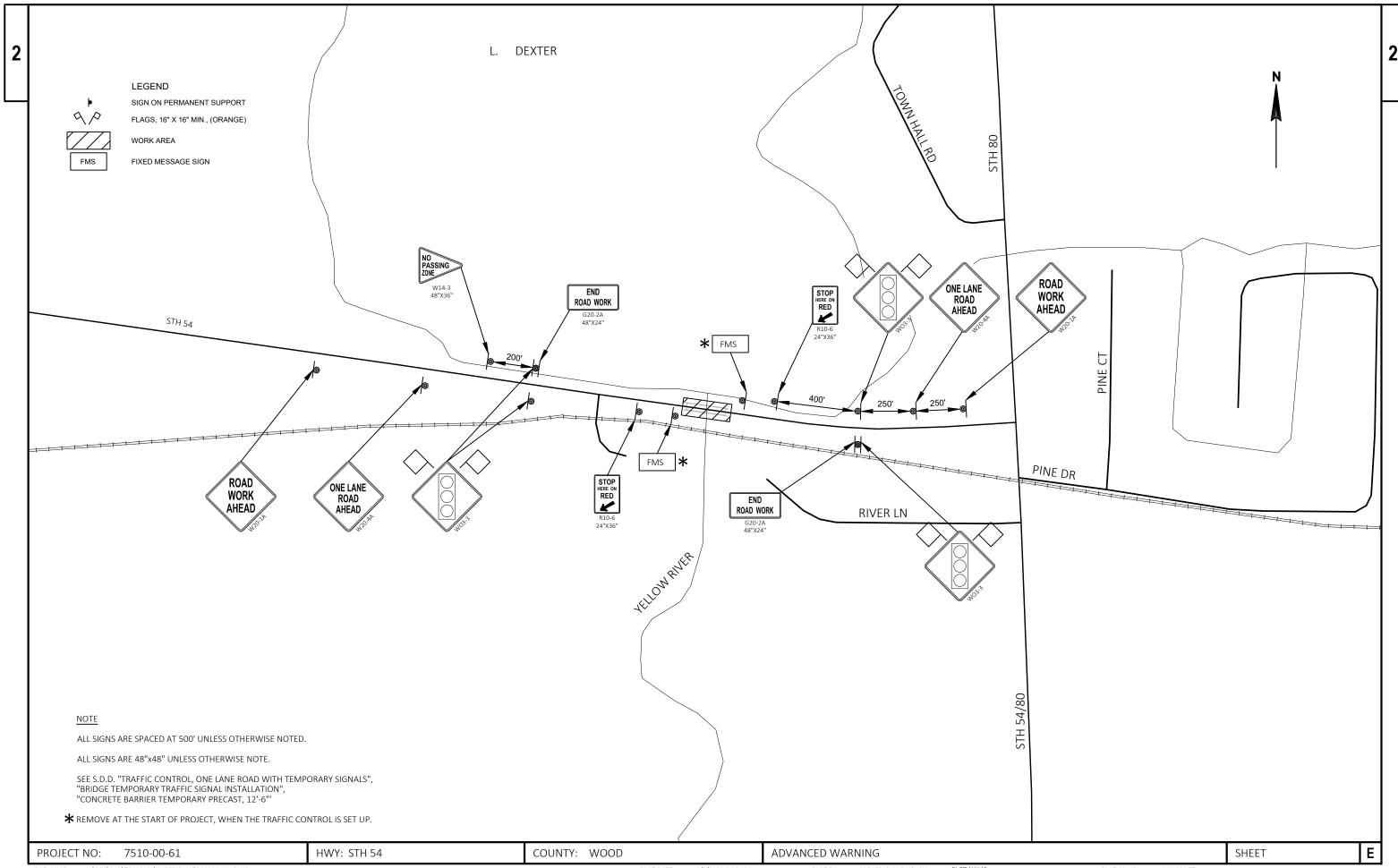


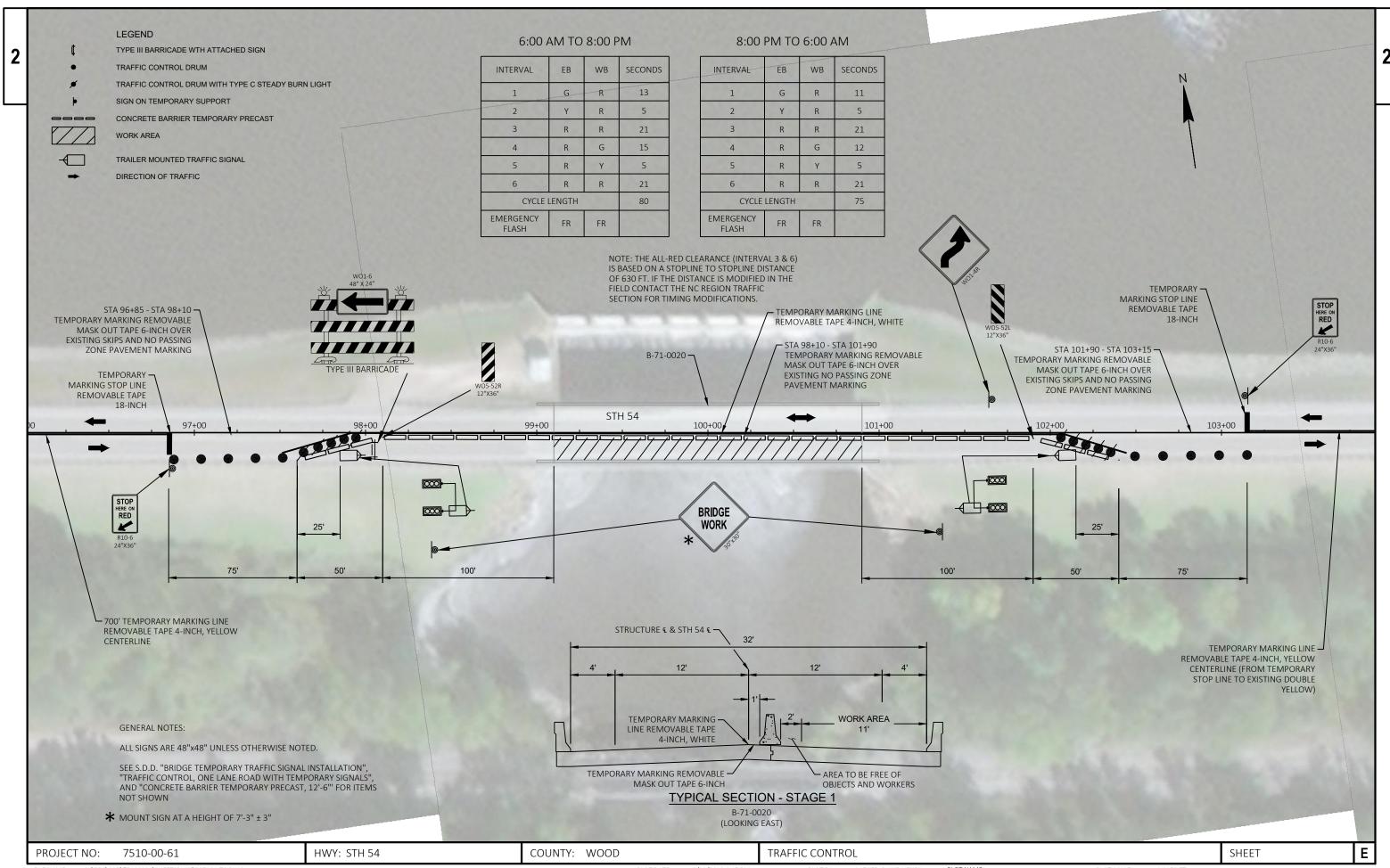
PROJECT NO: 7510-00-61 HWY: STH 54 COUNTY: WOOD GENERAL NOTES SHEET: **E** 

LE NAME : \_\_\_\_\_\_ PLOT DATE : \_\_\_\_\_ PLOT BY : \_\_\_\_\_ PLOT NAME : \_\_\_\_\_ PLOT SCALE : 1:1



FILE NAME: N:\PDS\C3D\75100031\SHEETSPLAN\020201-PO.DWG PLOT DATE: 2/15/2018 8:09 AM PLOT BY: SAEGER, PHILIP HENRY PLOT NAME: 1 IN:1 MI WISDOT/CADDS SHEET 42 LAYOUT NAME - Plan 1 IN 40 FT





					7510-00-61
Line	Item	Item Description	Unit	Total	Qty
0002	213.0100	Finishing Roadway (project) 01. 7510-00-61	EACH	1.000	1.000
0004	517.1800.S	Structure Repainting Recycled Abrasive (structure) 01. B-71-0020	LS	1.000	1.000
0006	517.4500.S	Negative Pressure Containment and Collection of Waste Materials (structure) 01. B-71-0020	LS	1.000	1.000
8000	517.6001.S	Portable Decontamination Facility 01. B-71-0020	EACH	1.000	1.000
0010	603.8000	Concrete Barrier Temporary Precast Delivered	LF	485.000	485.000
0012	603.8125	Concrete Barrier Temporary Precast Installed	LF	485.000	485.000
0014	619.1000	Mobilization	EACH	1.000	1.000
0016	643.0300	Traffic Control Drums	DAY	360.000	360.000
0018	643.0420	Traffic Control Barricades Type III	DAY	18.000	18.000
0020	643.0705	Traffic Control Warning Lights Type A	DAY	36.000	36.000
0022	643.0715	Traffic Control Warning Lights Type C	DAY	180.000	180.000
0024	643.0900	Traffic Control Signs	DAY	306.000	306.000
0026	643.1000	Traffic Control Signs Fixed Message	SF	48.500	48.500
0028	643.5000	Traffic Control	EACH	1.000	1.000
0030	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	1,495.000	1,495.000
0032	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch		24.000	24.000
0034	649.0960	Temporary Marking Removable Mask Out Tape 6-Inch	LF	693.000	693.000
0036	661.0100	Temporary Traffic Signals for Bridges (structure) 01. B-71-0020	LS	1.000	1.000
0038	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0040	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	150.000	150.000

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TEMPORARY TRAFFIC SIGNALS FOR BRIDGES (B-71-0020)

CONCRETE BARRIER TEMPORARY PRECAST 603. 8000 60

 STATI ON TO
 STATI ON LOCATI ON LOCATION
 661. 0100 LS
 REMARKS

 96+70
 103+30 LT & RT L 0010 1
 1

 STATI ON
 TO
 STATI ON
 LOCATI ON
 AB5
 DELI VERED INSTALLED

 97+60
 102+40
 RT
 485
 485

TOTAL 0010 485

485

### TRAFFI C CONTROL

									TE	MPORARY MARKI	NG
						643. 0705	643. 0715		649. 0150	649. 0850	649. 0960
					643. 0420	WARNI NG	WARNI NG		LI NE	STOP LINE	REMOVABLE
				643. 0300	BARRI CADES	LI GHTS	LI GHTS	643. 0900	REMOVABLE	REMOVABLE	MASK OUT
				DRUMS	TYPE III	TYPE A	TYPE C	SI GNS	TAPE 4-INCH	TAPE 18-INCH	TAPE 6-INCH
STATI ON	T0	STATI ON	LOCATI ON	DAY	DAY	DAY	DAY	DAY	LF	LF	LF
81+85	-	89+85	LT & RT					36			
89+85	-	96+85	LT & RT					72	700	12	
96+85	-	103+15	LT & RT	360	18	36	180	108	500		693
103+15	-	106+10	LT & RT						295	12	
106+10	-	112+15	LT & RT					90			
		T0	TAL 0010	360	18	36	180	306	1, 495	24	693

## TRAFFIC CONTROL SIGNS FIXED MESSAGE

SI GN CODE	MESSAGE	SI ZE	643. 1000 SF	REMARKS
G20- 57	HWY 54 ROAD WORK BEGINS XXX-XX	72"X36"	18	PLACE 7 DAYS PRIOR TO CONSTRUCTION
G20- 57	HWY 54 ROAD WORK BEGINS XXX-XX	72"X36"	18	PLACE 7 DAYS PRIOR TO CONSTRUCTION
	BRI DGE WORK BRI DGE WORK	30"X30" 30"X30"	6. 25 6. 25	
	TO	OTAL 0010	48. 5	

NOTE: QUANTITIES ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJEC	CT NO: 7510-00-61	HWY: STH 54	COUNTY: WOOD	MISCELLANEOUS QUANTITIES	SHEET:	E
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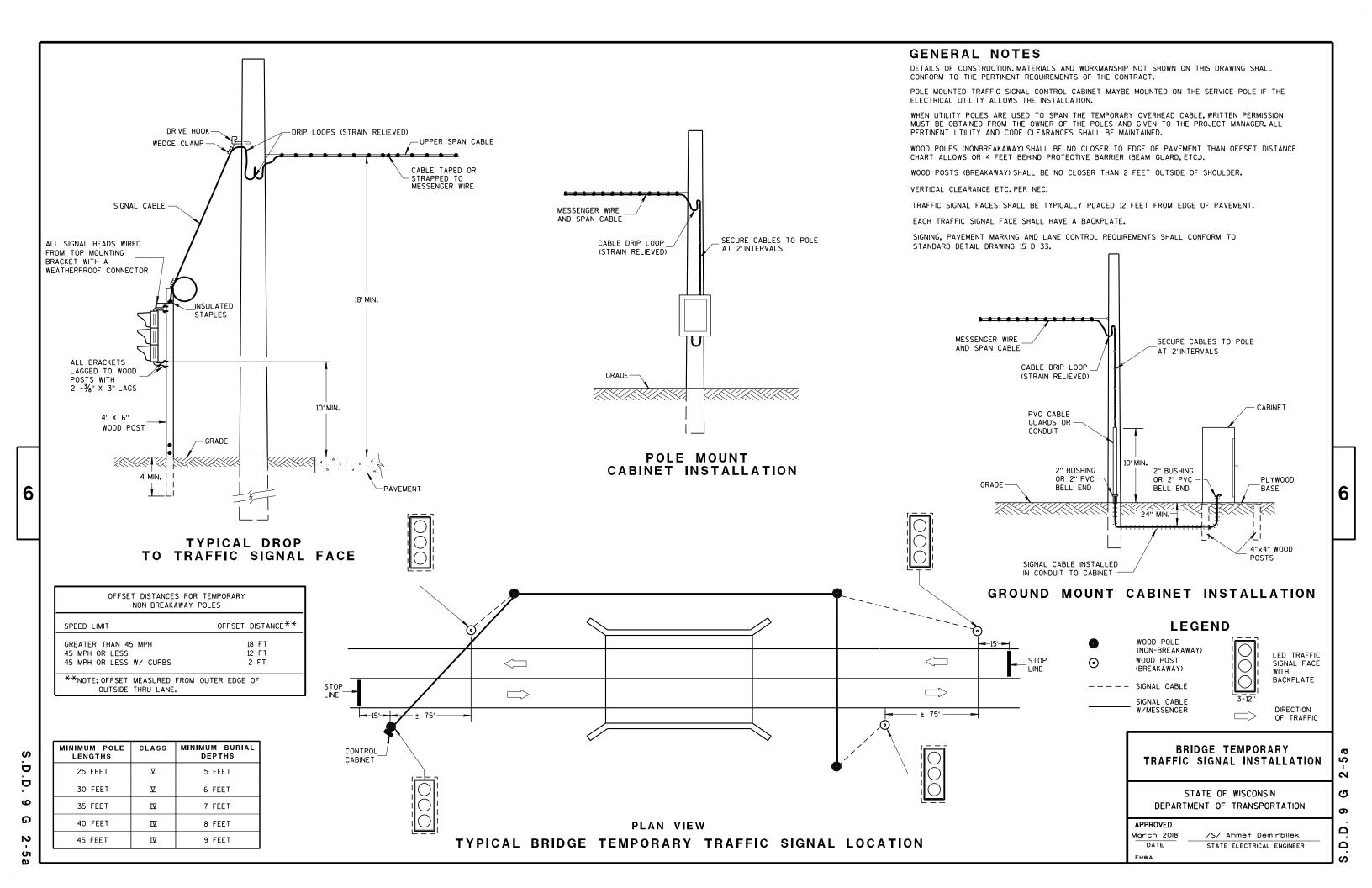
E NAME : \_\_\_\_\_\_ PLOT BY : \_\_\_\_\_ PLOT BY : \_\_\_\_\_ PLOT NAME : \_\_\_\_\_ PLOT SCALE : 1:1

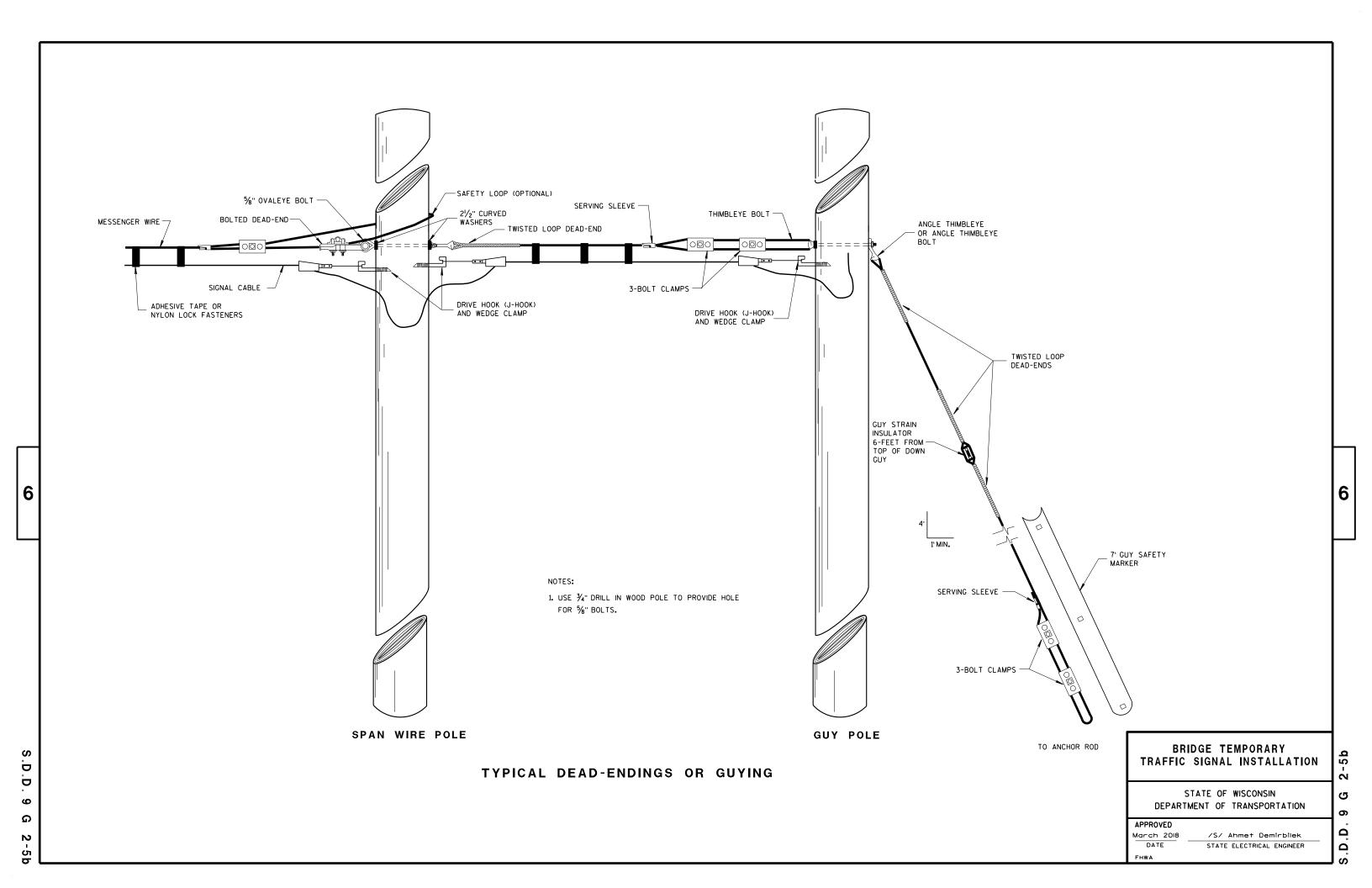
## Standard Detail Drawing List

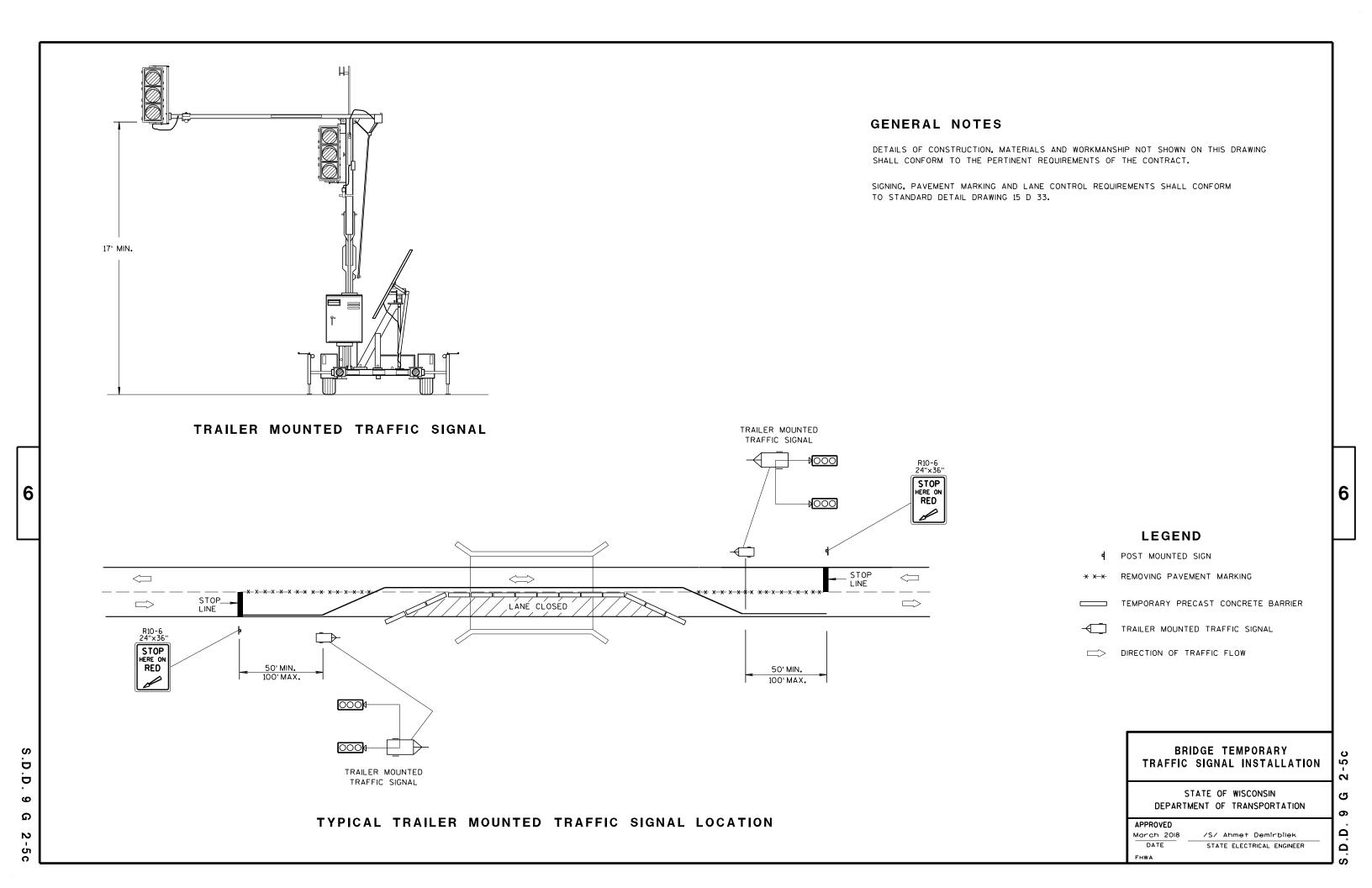
09G02-05A	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-05B	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-05C	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
14B07-15A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15C	CONCRETE BARRIER TEMPORARY 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"
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C11-07A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15С11-07В	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15D33-05	TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

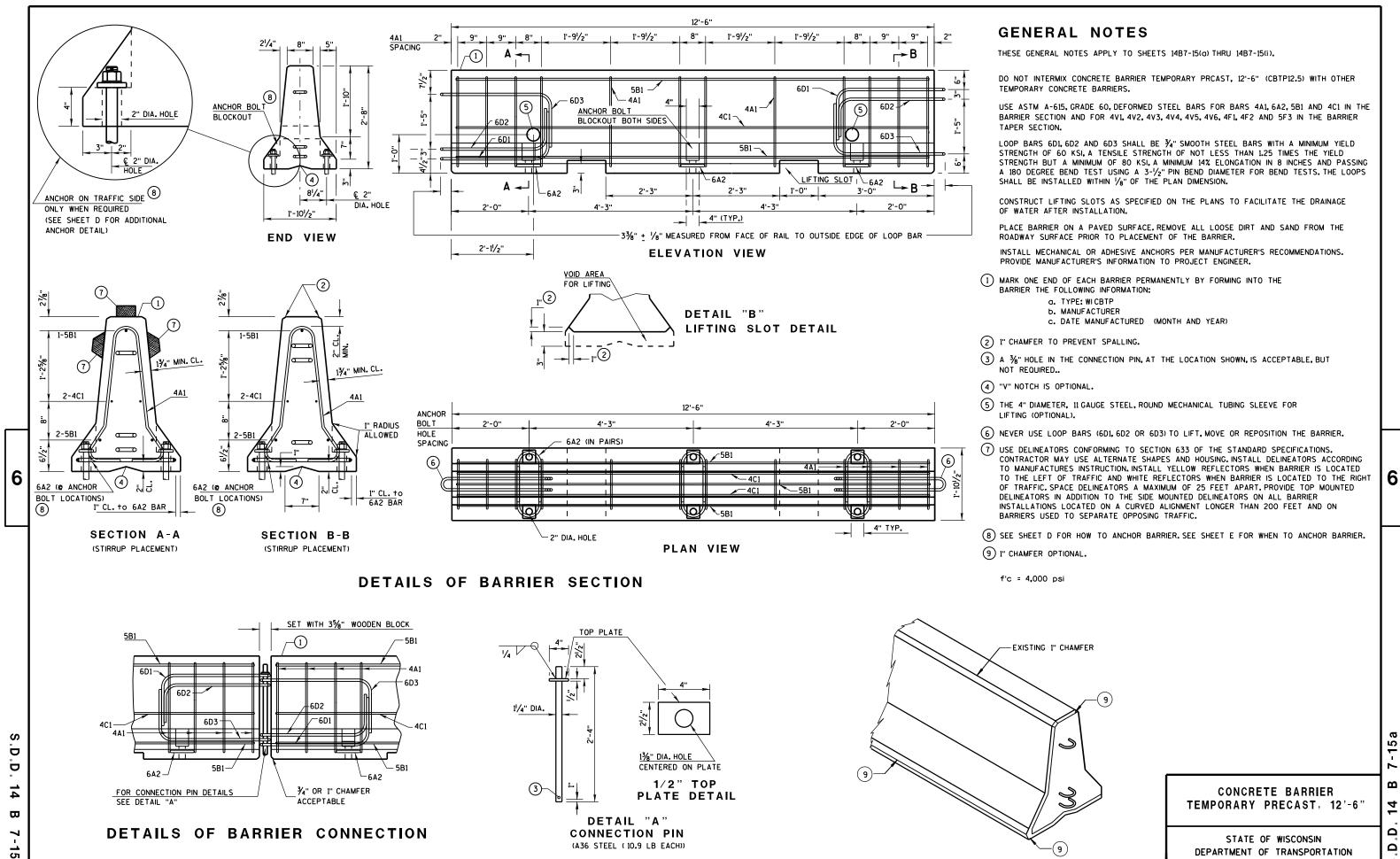
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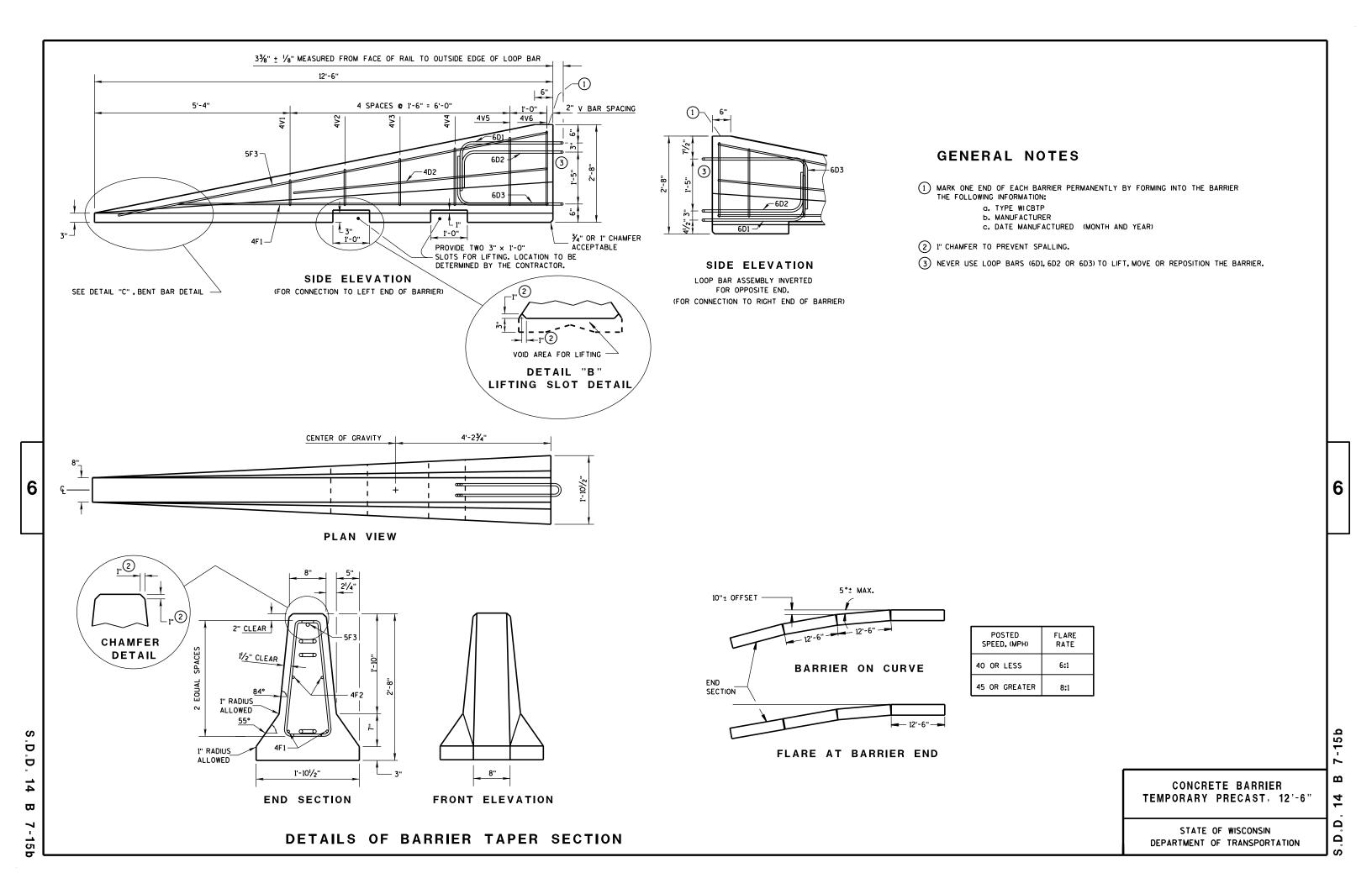






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DEPARTMENT OF TRANSPORTATION

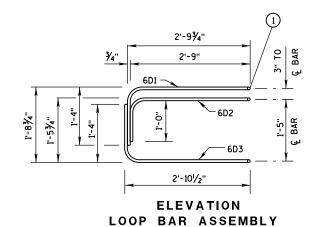


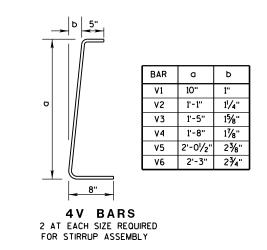
1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

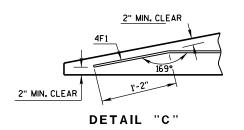
## BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

BAR	BAR SIZE	NO. OF BARS	LENGTH FT.				
4V1	4	2	1'-11"				
4V2	4	2	2'-2"				
4٧3	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"				
5F3	5	1	11'-9"				
L	LOOP ASSEMBLY						
6D1	6	1	8'-5"				
6D2	6	1	7'-7"				
6D3	6	1	8'-6"				
		•	•				





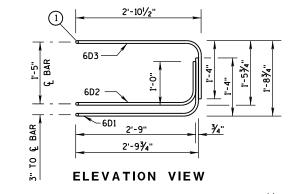


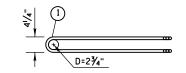
BENT BAR DETAIL

## TAPER BARRIER SECTION



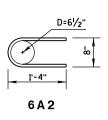
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
L	OOP AS	SSEMBL	Υ
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"

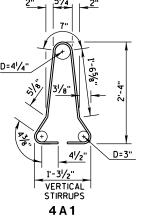




**PLAN VIEW** LOOP BAR ASSEMBLY

(MARKED END SHOWN, INVERT FOR OTHER END)





## **BARRIER SECTION**

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

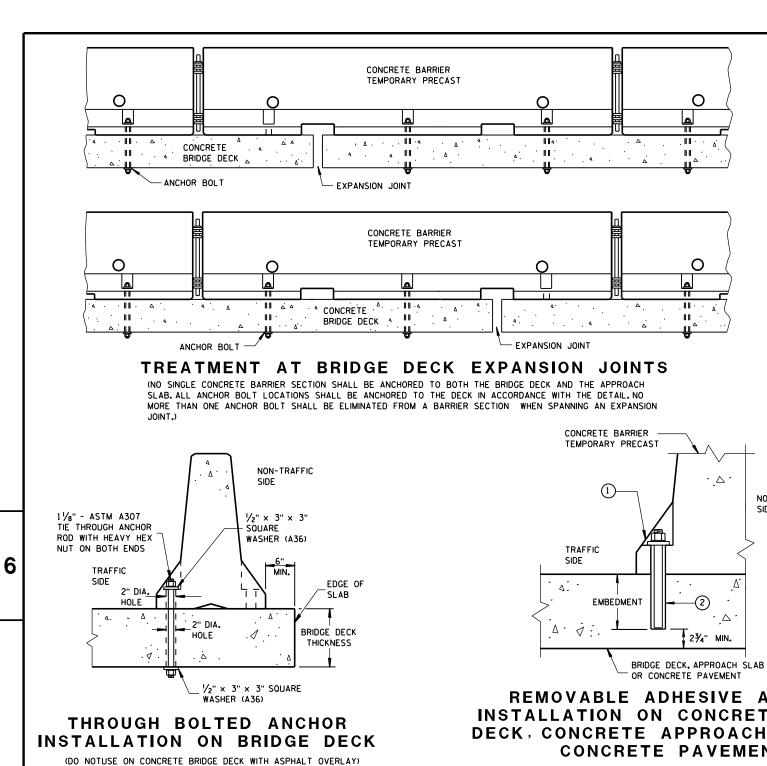
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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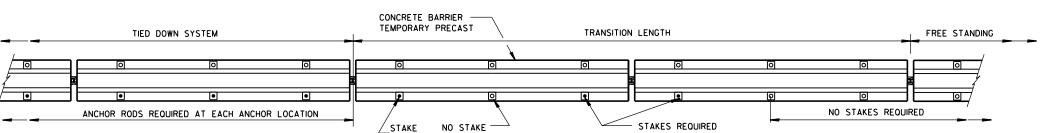
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## REMOVABLE ADHESIVE ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR **CONCRETE PAVEMENT**

NON-TRAFFIC

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



DIRECTION OF TRAFFIC

**PLAN VIEW** 

REQUIRED

### FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

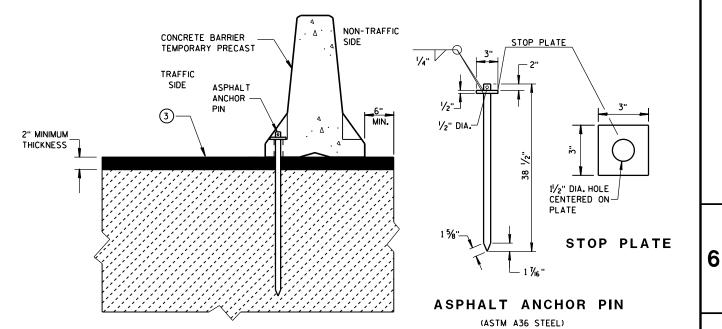
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

#### GENERAL NOTES

SEE SHEET E FOR WHEN TO ANCHOR. OTHER PARTS OF THE PLAN MAY SHOW ADDITIONAL LOCATIONS REQUIRING ANCHORING.

REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERICAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

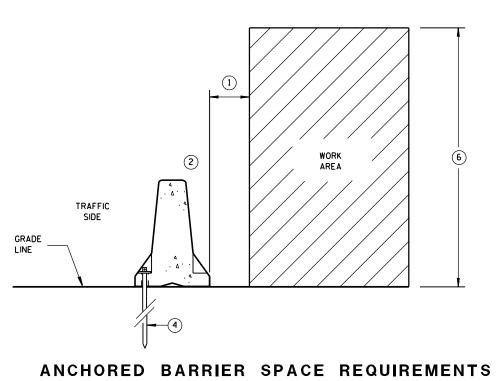
- 1 1/8" DIAMENTER A307 THREADED ROD, 1/2" X 3" X 3" SOUARE PLATE WASHER WITH ASTM A36 STEEL, ASTM A563A HEAVY HEX NUT.
- 2 ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 51/4" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.
- (3) ASPHALT SURFACE SHOWN. CONTRACTOR MAY DRILL THROUGH CONCRETE PAVEMENT AND THAN DRIVE ASPHALT ANCHOR PIN.



STAKE DOWN INSTALLATION FOR **ASPHALTIC SURFACE** 

> **CONCRETE BARRIER** TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION -15d  $\mathbf{\omega}$ Ω



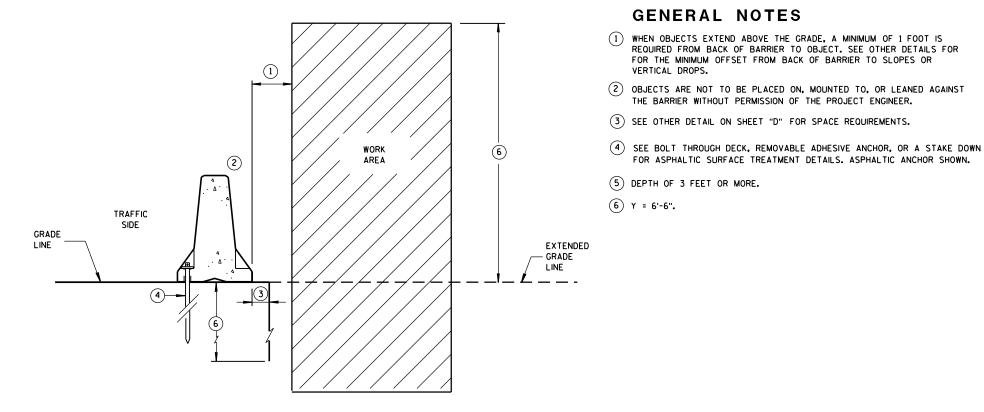
FOR HAZARDS EXTENDED ABOVE THE GRADE LINE

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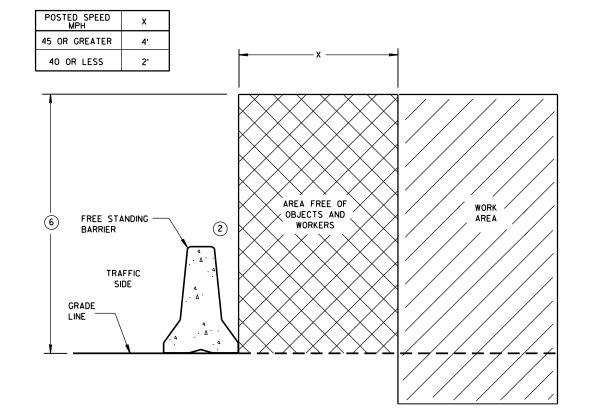
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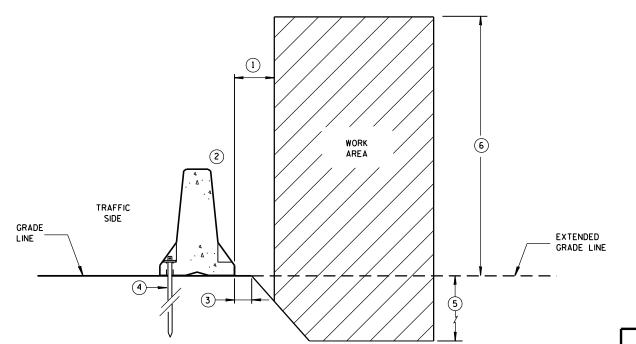
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ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS



FREE STANDING BARRIER SPACE REQUIREMENTS



ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

**GENERAL NOTES** 

FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR

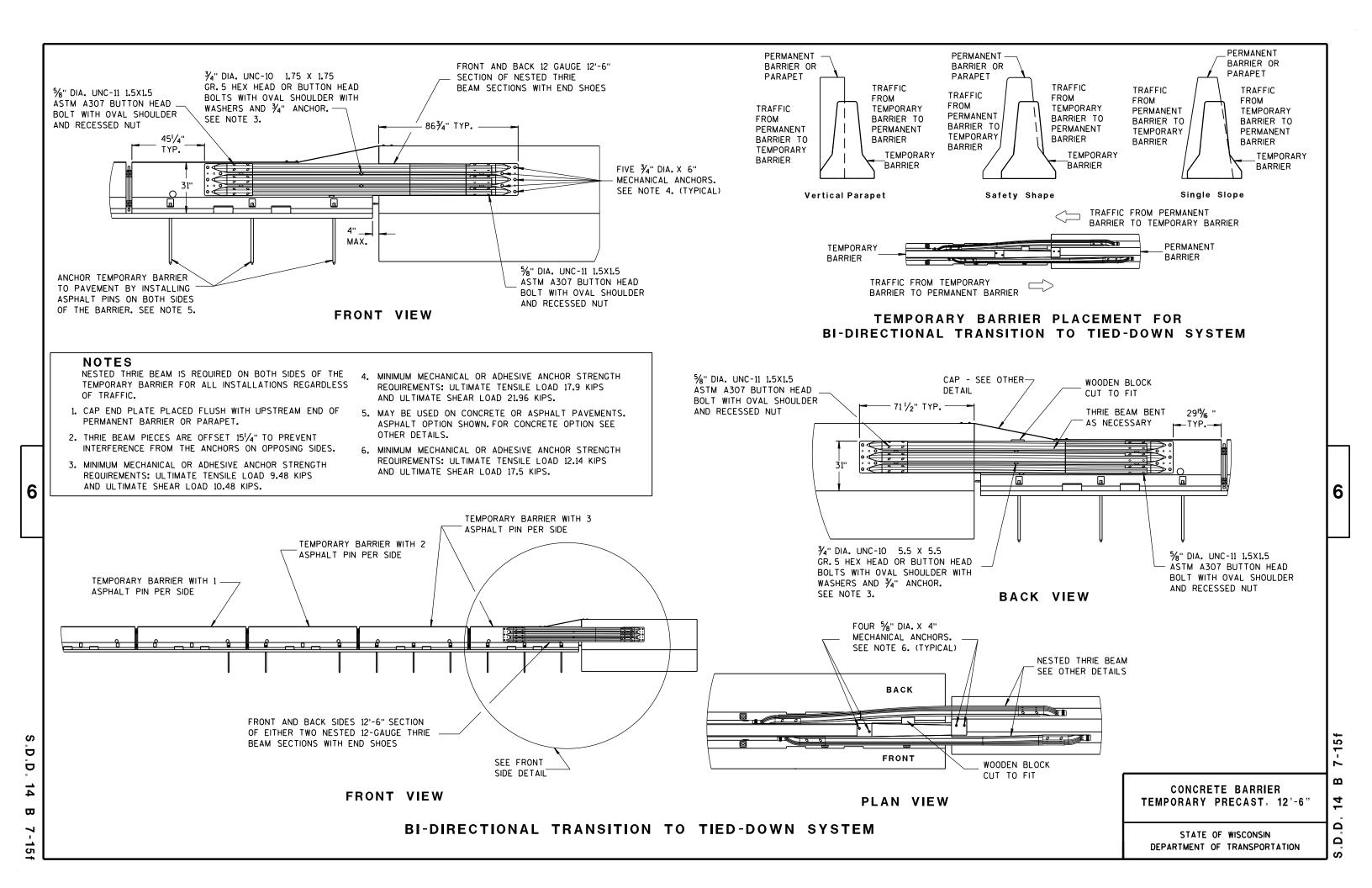
FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.

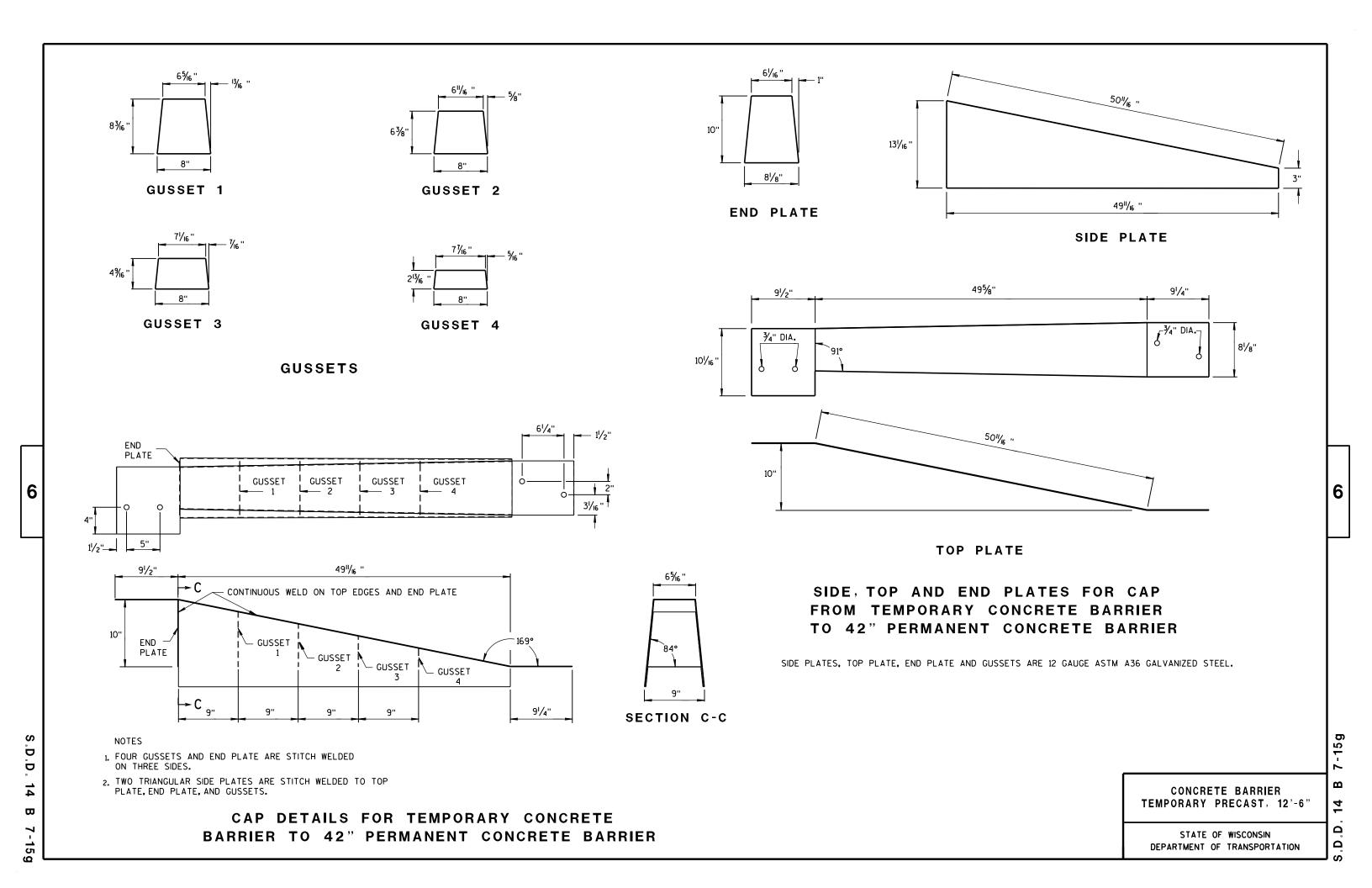
THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.

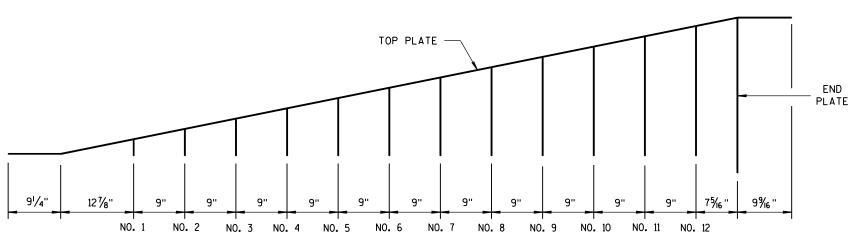
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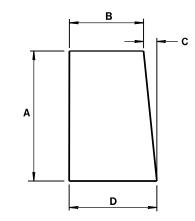




**GUSSET LOCATION** 

CAP DETAILS FOR TEMPORARY CONCRETE

BARRIER TO 56" PERMANENT CONCRETE BARRIER



**GUSSETS 1 - 12** 

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS						
GUSSET No.	A	В	С	D		
1	21/8"	73/4"	1/4"	8		
2	4"/16 "	7% "	1/2"	8		
3	61/2"	73/8"	11/16 "	81/16"		
4	85/6"	73//6"	7∕8"	81/16 "		
5	101/8"	7''	1 ½ <sub>6</sub> "	81/16"		
6	11 <sup>15</sup> / <sub>16</sub> ''	6 <sup>13</sup> // <sub>6</sub> "	1 1/4"	81/16"		
7	13¾"	65%"	1 1/6"	81/16"		
8	15% "	6¾6"	1 % "	81/16"		
9	173/8"	6 <sup>1</sup> /4"	1 <sup>13</sup> / <sub>16</sub> "	8½ <sub>6</sub> "		
10	193/6"	6½ <sub>6</sub> "	1 15/16 "	81/16"		
11	21"	57/8"	23/6"	81/16"		
12	22 <sup>13</sup> / <sub>16</sub> "	5 <sup>11</sup> / <sub>16</sub> "	2% "	8½ <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.

> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

DEPARTMENT OF TRANSPORTATION

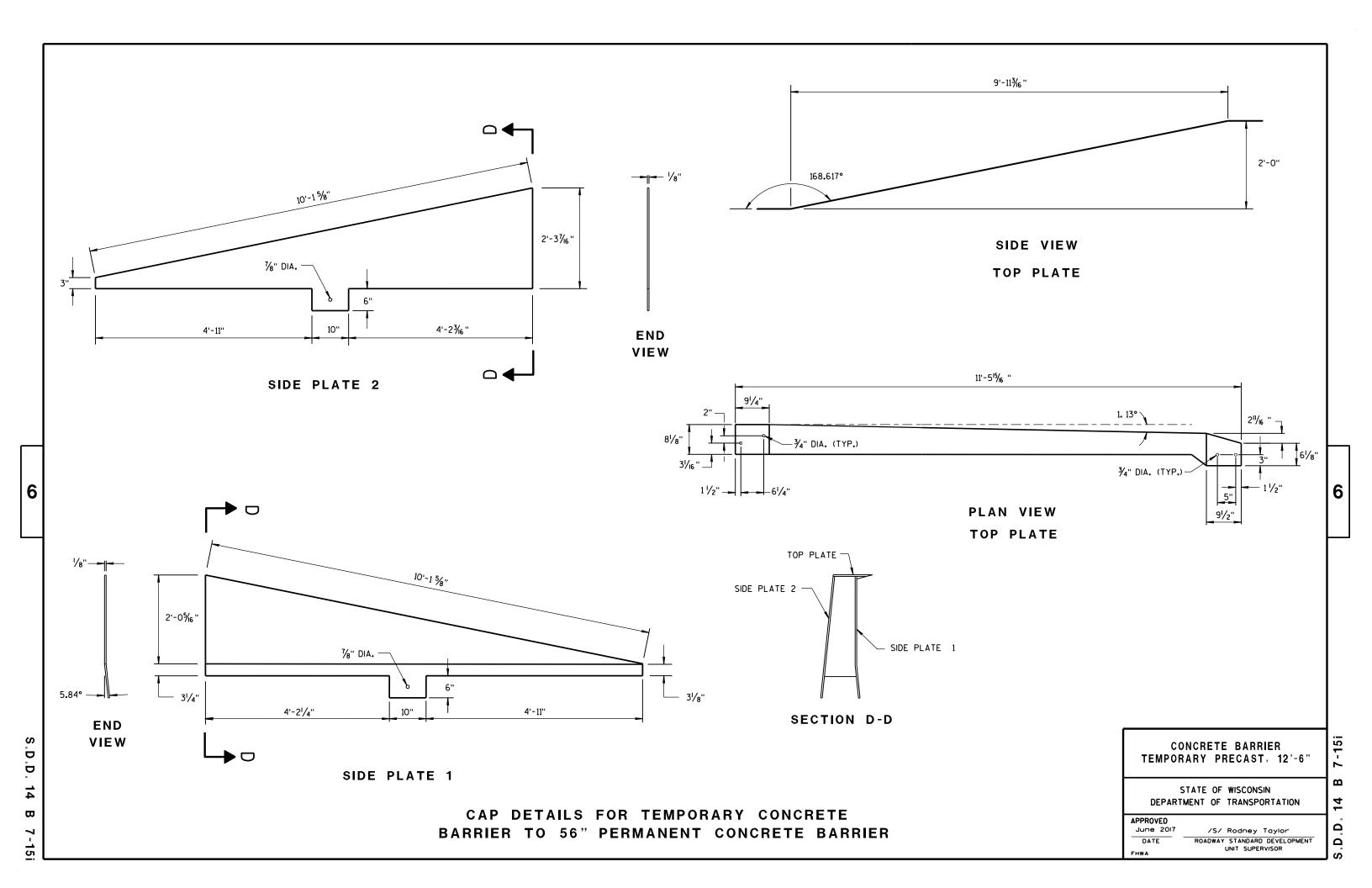
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### **GENERAL NOTES**

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

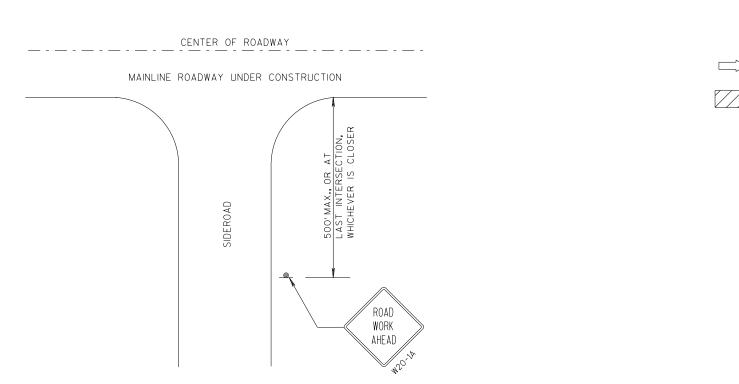
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

- imes OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- \*\* PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

SIGN ON PERMANENT SUPPORT

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DIRECTION OF TRAFFIC

WORK AREA

TRAFFIC CONTROL, ADVANCE
WARNING SIGNS 45 M.P.H.
OR GREATER TWO-WAY
UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

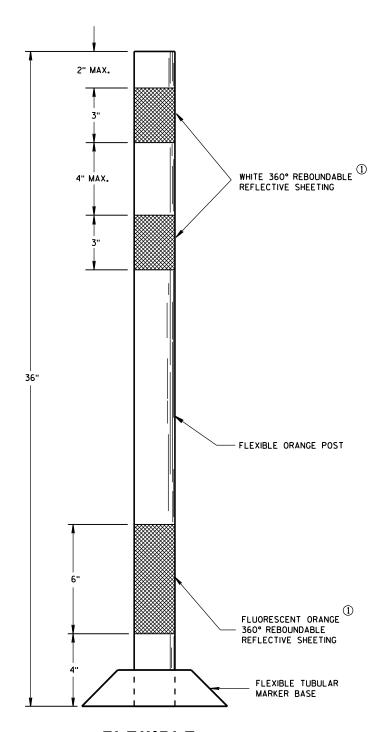
APPROVED

7/2018 /S/ Andrew Heidtke

DATE WORK ZONE ENGINEER

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**FLEXIBLE** TUBULAR MARKER POST **WORK ZONE** 

### **GENERAL NOTES**

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

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

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

> CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED
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/S/ Andrew Heidtke WORK ZONE ENGINEER FHWA

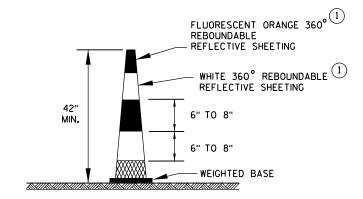
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Ω Ω **DRUM** 

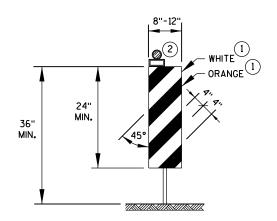
## TYPE 2 BARRICADE

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



## **42**" CONE

DO NOT USE IN TAPERS 1/2 SPACING OF DRUMS

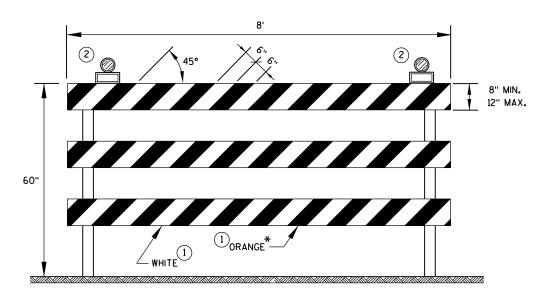


### **VERTICAL PANEL**

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.

## GENERAL NOTES

- REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



## TYPE 3 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.

# CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

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June 2017
DATE

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FHWA

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## TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STOP/SLOW PADDLE ON SUPPORT STAFF

5' MIN.

WORK

AHEAD

48" X 24"

END ROAD WORK G20-2A

(2)

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W20-1A

#### **GENERAL NOTES**

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

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

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT. REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

\* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

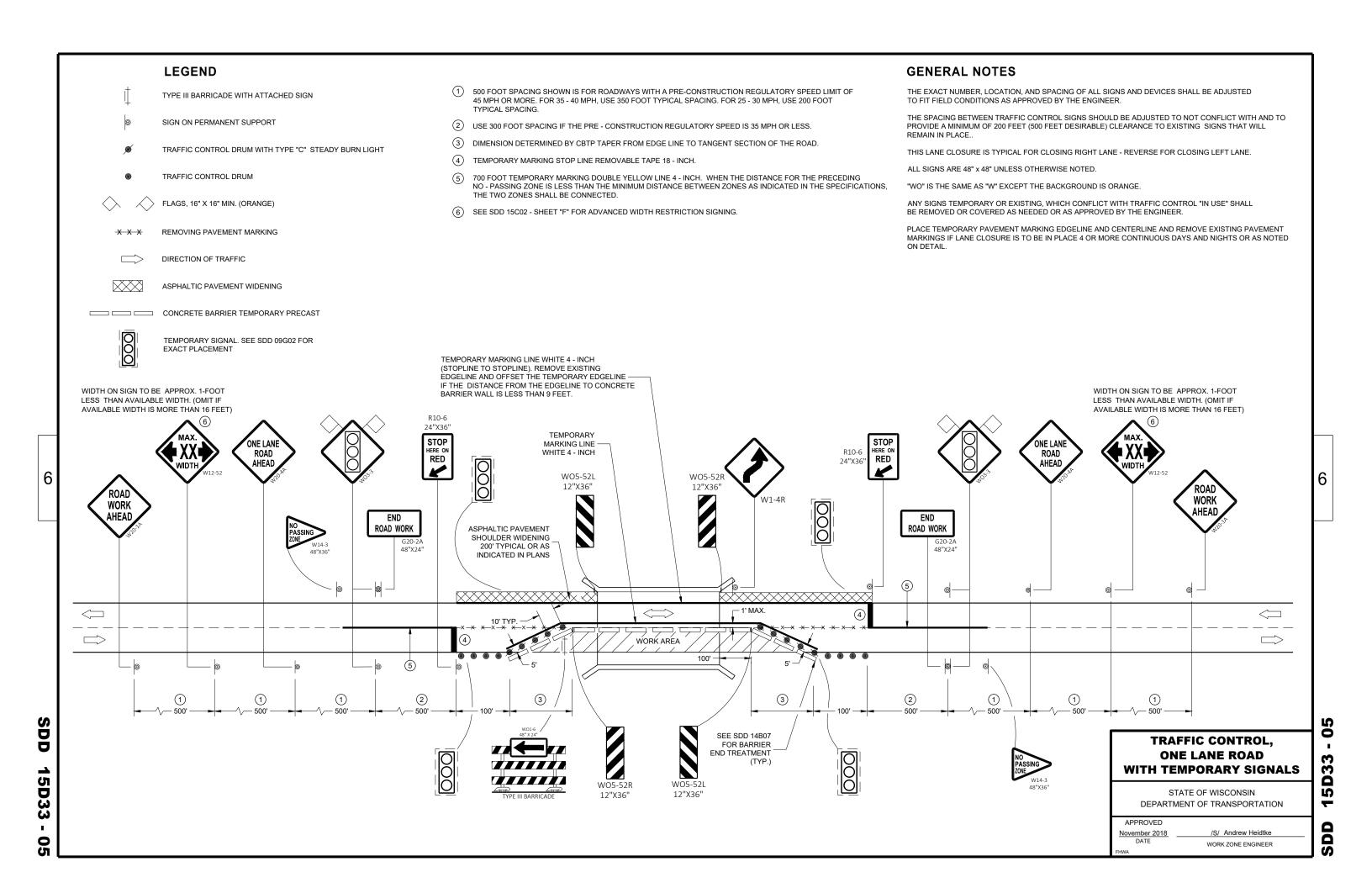
- 1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

### TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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June 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

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TUBULAR STEEL POSTS

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

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

#### URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH** 

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

4" X 6" WOOD POST

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

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

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NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

- A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3
- B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 1/6" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 1/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

\* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

> ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 /S/ Andrew Heidtke DATE WORK ZONE ENGINEER FHWA

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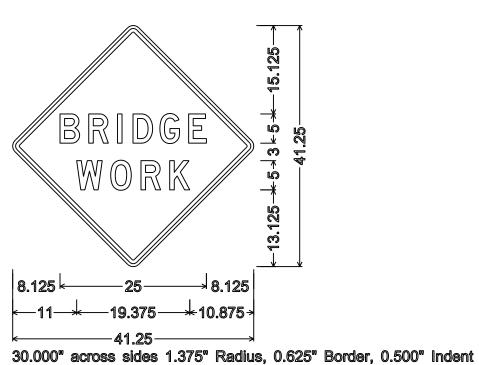
38-2b

## NOTES

- 1. All Signs Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

3. Message Series - D



7

PROJECT NO: 7510-00-61 HWY: STH 54 COUNTY: WOOD TEMPORARY SIGNING SHEET NO:

7510-00-61

## DESIGN DATA

LIVE LOAD: (TAKEN FROM HSI - 11/21/17)
DESIGN RATING: HS-20
INVENTORY RATING: HS-15
OPERATIONAL RATING: HS- 25
MAXIMUM STANDARD PERMIT VEHICLE LOAD: 180 (KIPS)

#### GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THE COLOR OF THE FINISH TOP COAT SHALL BE LIGHT GREY, (FEDERAL STANDARD COLOR NO. 26293) OR SIMILAR COLOR APPROVED BY THE ENGINEER.

## TRAFFIC VOLUME

STH 54

ADT = 1,000 (2014) R.D.S. = 60 M.P.H.

## ABRASIVE BLAST AND REPAINT ALL-STRUCTURAL STEEL SURFACE AREAS (INCLUDING BEARINGS) -HW100 EL. = 990.0 ← € BRG.W.ABUT. - € PIER € BRG. E. ABUT. -> CRADE - 1000 E 990 -STEEL GIRDERS. SEE "SUPERSTRUCTURE DETAILS" SHEET. J.S.1 WATER SURFACE -EL. 9**7**5.28 12/0**7**/01 - HEAVY RIPRAP 980 8 **ELEVATION**

181'-4" - BACK TO BACK OF ABUTMENTS

100+00

PLAN (2-SPAN CONTINUOUS STEEL BEAM BRIDGE)

16.

88'-3" - SPAN 1

€ STH 54¬

UNIT

LS

LS

EACH

TOTALS

-⊈ BRG. W. ABUT. STA. 99+11.**7**5

99+00

TOTAL ESTIMATED QUANTITIES

BID ITEMS

NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIAL B-71-20

STRUCTURE REPAINTING RECYCLED ABRASIVE B-71-20

PORTABLE DECONTAMINATION FACILITY

BID ITEM NUMBER

51**7.**1800.S

51**7.**4500.S

51**7.**6001.S

88'-3" - SPAN 2

€ BRG. E. ABUT. ¬ STA. 100+88.25

101+00

LIST OF DRAWINGS

1. STRUCTURE REPAINTING 2. CROSS SECTION DETAILS

3. SUPERSTRUCTURE DETAILS

BUREAU OF
SIRUC TURES

ACCEPTED WIlliam C. During

10/31/18

CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-71-20

STH 54 OVER THE YELLOW RIVER

COUNTY WOOD TOWN DEXTER

DESIGN SPEC.
REHABILATATION N/A

DESIGNED NAR CK'D. MJK BY NAR CK'D. MJK

STRUCTURE
REPAINTING

SHEET 1 OF 3

REVISION

(608) 261-6108

(608) 261-0261

STRUCTURE DESIGN CONTACTS:

MAXWELL KULICK

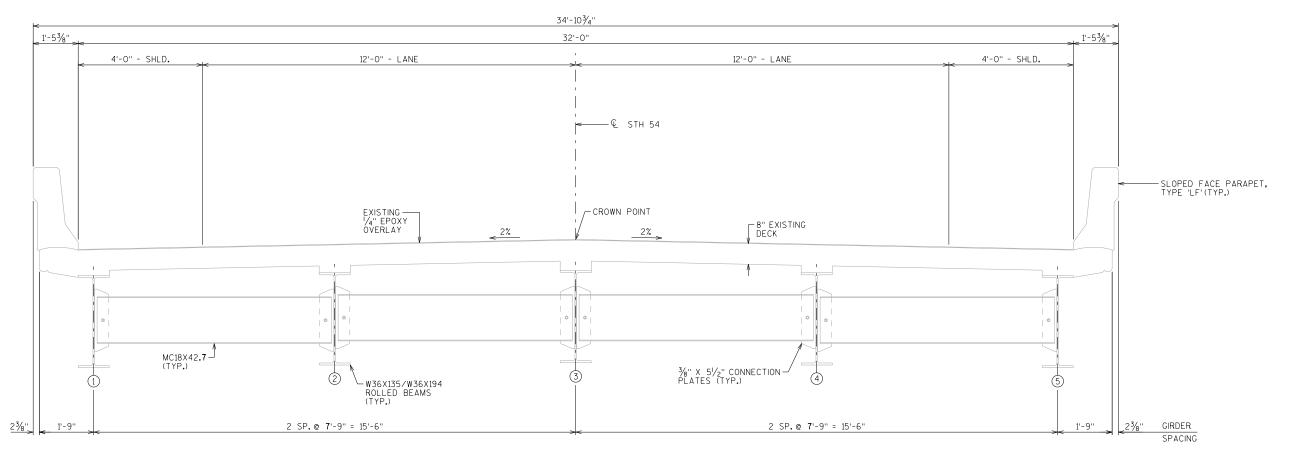
AARON BONK

NO. DATE

BY

STATE PROJECT NUMBER

7510-00-61



CROSS-SECTION THRU ROADWAY LOOKING EAST

O INDICATES GIRDER NUMBER

8

NO. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

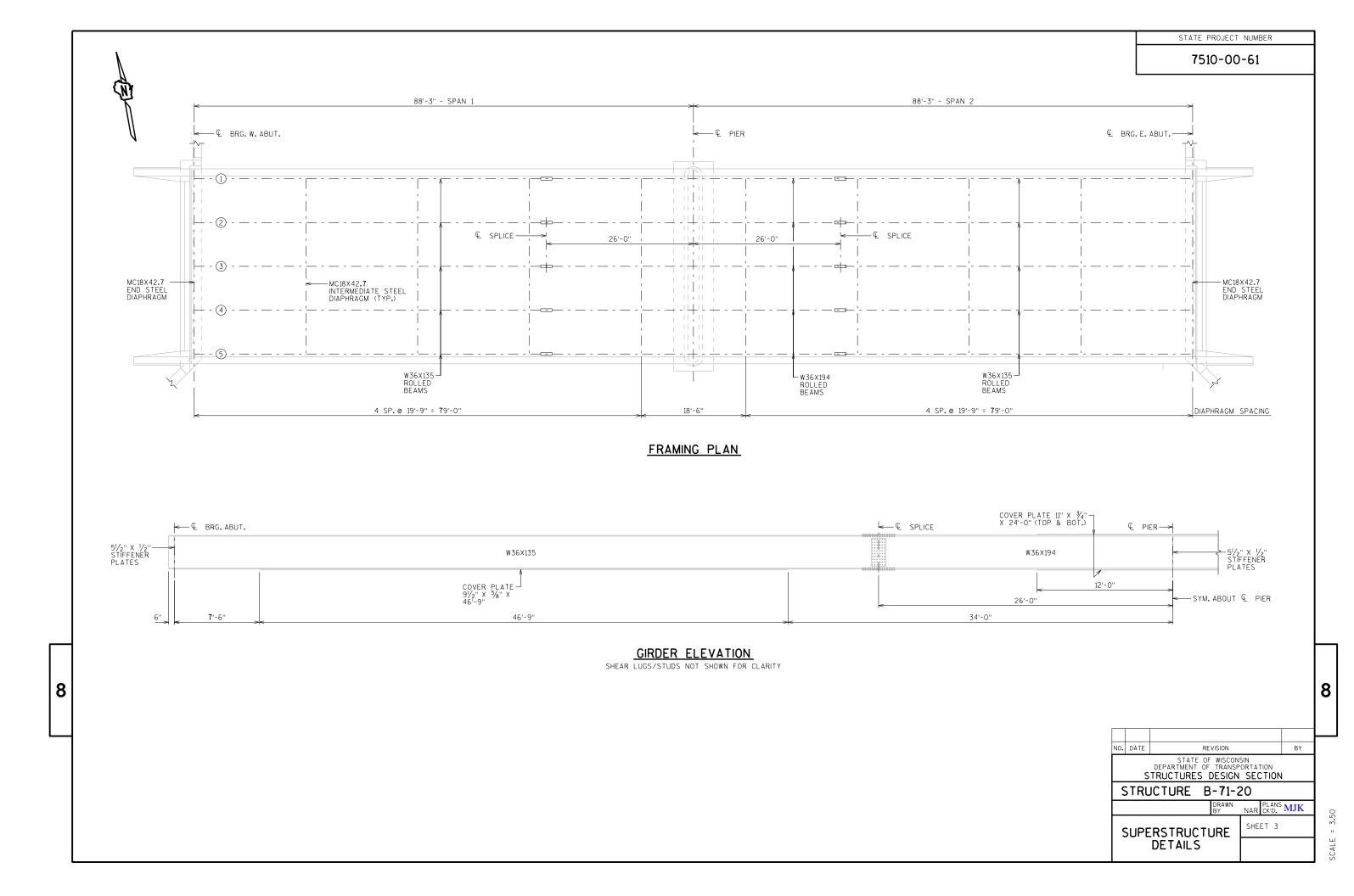
STRUCTURE B-71-20

DRAWN
BY
NAR PLANS MJK
CROSS SECTION
DETAILS

SHEET 2

SCALE = 1.50

8





## Wisconsin Department of Transportation

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