**GRE** 

MAY 2017

Section No.

Section No.

TOTAL SHEETS = 40

4685-24-60

OUTAGAMIE

#### **STATE OF WISCONSIN** ORDER OF SHEETS Section No. **DEPARTMENT OF TRANSPORTATION** Section No. Typical Sections and Details Section No. Estimate of Quantities

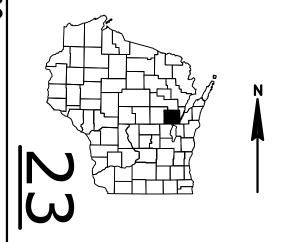
PLAN OF PROPOSED IMPROVEMENT

### **CITY OF APPLETON**

**FOX RIVER BRIDGE** 

**STH 441 OUTAGAMIE COUNTY** 

> STATE PROJECT NUMBER 4685-24-60

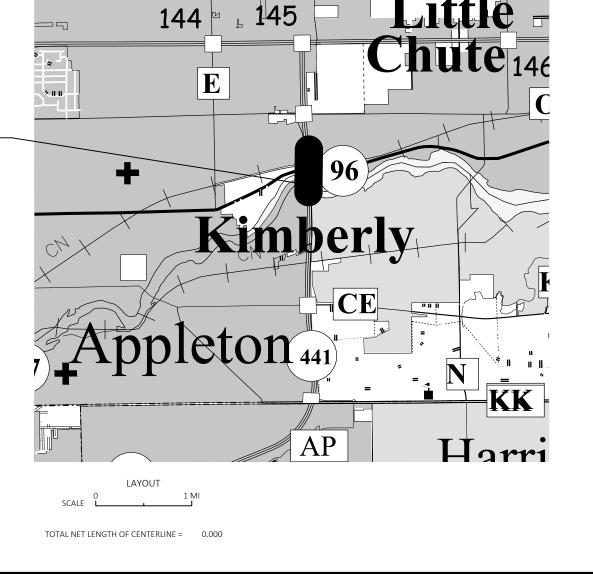


Standard Detail Drawings

**STRUCTURE B-44-126** STH 441 OVER FOX RIVER, STH 96 & CANADIAN NATIONAL RAILROAD

### **CONVENTIONAL SYMBOLS**

PLAN		PROFILE	
CORPORATE LIMITS	<u> </u>	GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND  MARSH OR ROCK PROFILE	- ROCK
LOT LINE		(To be noted as such)	` .
LIMITED HIGHWAY EASEMENT	L	SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY		CRARE SUSTINATION	95.36
PROPOSED OR NEW R/W LINE		GRADE ELEVATION	6
SLOPE INTERCEPT		CULVERT (Profile View)	0 □
REFERENCE LINE	300'EB'	UTILITIES	
		ELECTRIC	— Е —
EXISTING CULVERT		FIBER OPTIC	—— FO ——
PROPOSED CULVERT (Box or Pipe)	<del>-</del>	GAS	—— G ——
	M1.	SANITARY SEWER	— SAN —
COMBUSTIBLE FLUIDS	-CAUTION-	STORM SEWER	—— ss ——
	7/1	TELEPHONE	— т —
MARSH ARFA	(T T)	WATER	—— w ——
WARSHAREA		UTILITY PEDESTAL	Ħ
		POWER POLE	Ь
WOODED OR SHRUB AREA	ξ , , ,	TELEPHONE POLE	ø



STATE PROJECT CONTRACT WISC 2017277 4685-24-60

FEDERAL PROJECT

DEPARTMENT OF TRANSPORTATION PREPARED BY Surveyor

STATE OF WISCONSIN

Designer Project Manage

**GENERAL NOTES** 

THERE ARE NO KNOWN UTILITY FACILITIES WITHIN THE PROJECT AREA. HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THIS.

DNR LIAISON

MATT SCHAEVE WISCONSIN DEPARTMENT OF NATURAL RESOURCES 2984 SHAWANO AVENUE GREEN BAY, WI 54313-6727 (920) 366-1544 matthew.schaeve@wisconsin.gov

### NE REGION SURVEY COORDINATOR

CORMAC MCINNIS,RLS 944 VANDERPERREN WAY GREEN BAY, WI 54304 (920) 492-5638 cormac.mcinnis@dot.wi.gov



PROJECT NO: 4685-24-60

HWY:STH 441

COUNTY: OUTAGAMIE

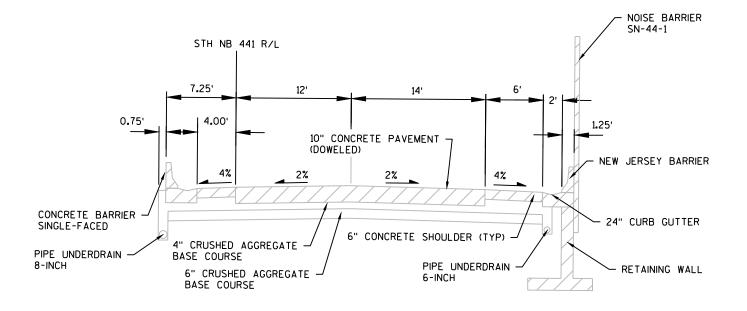
GENERAL NOTES

SHEET

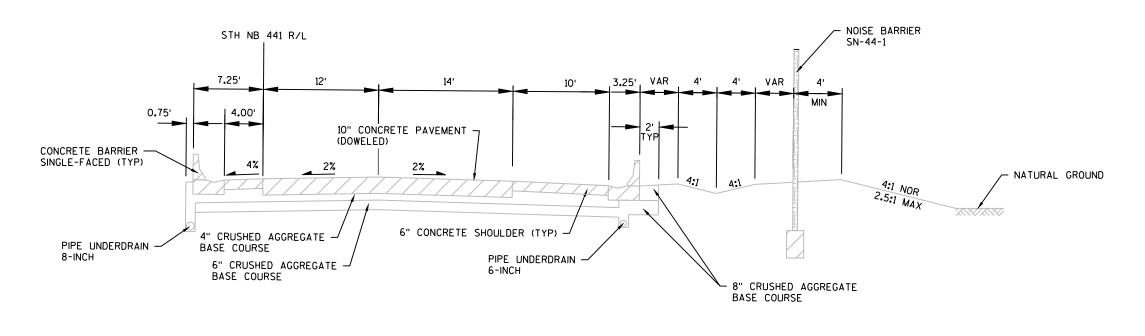
PLOT DATE: 2/16/2017 3:44 PM

PLOT BY : CAMPSHURE, MICHAEL RPLOT NAME :





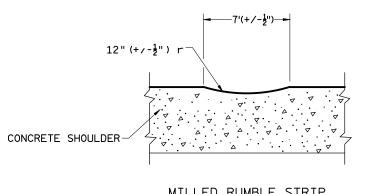
#### 1/2 TYPICAL EXISTING SECTION STH 441 NORTHBOUND APPROACH



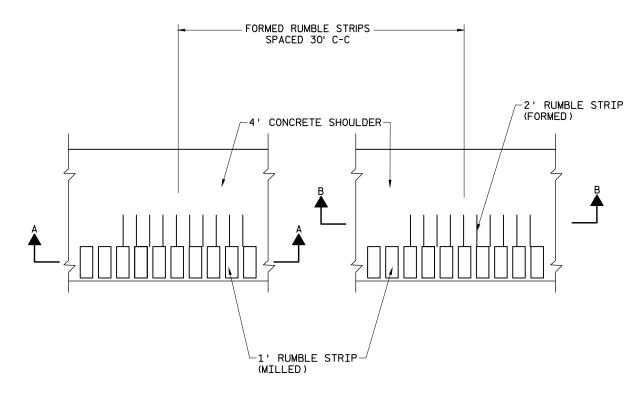
### 1/2 TYPICAL EXISTING SECTION STH 441 SOUTHBOUND APPROACH

Ε PROJECT NO: 4685-24-60 HWY: STH 441 COUNTY: OUTAGAMIE TYPICAL CROSS SECTIONS SHEET N:\PDS\PROJECTS\OUTAGAMIE\4685-24-30\DESIGN\PS&E\PLAN SET\020301-TS.DWG PLOT BY: SMITH, JENNIFER B PLOT NAME : FILE NAME : 1/31/2017 3:17 PM PLOT SCALE : 1:10 WISDOT/CADDS SHEET 42



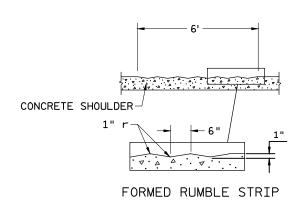


MILLED RUMBLE STRIP SECTION A-A



<u>PLAN VIEW</u>

EXISTING CONCRETE SHOULDER RUMBLE STRIPS STH 441 BRIDGE APPROACHES



SECTION B-B

PROJECT NO: 4685-24-60

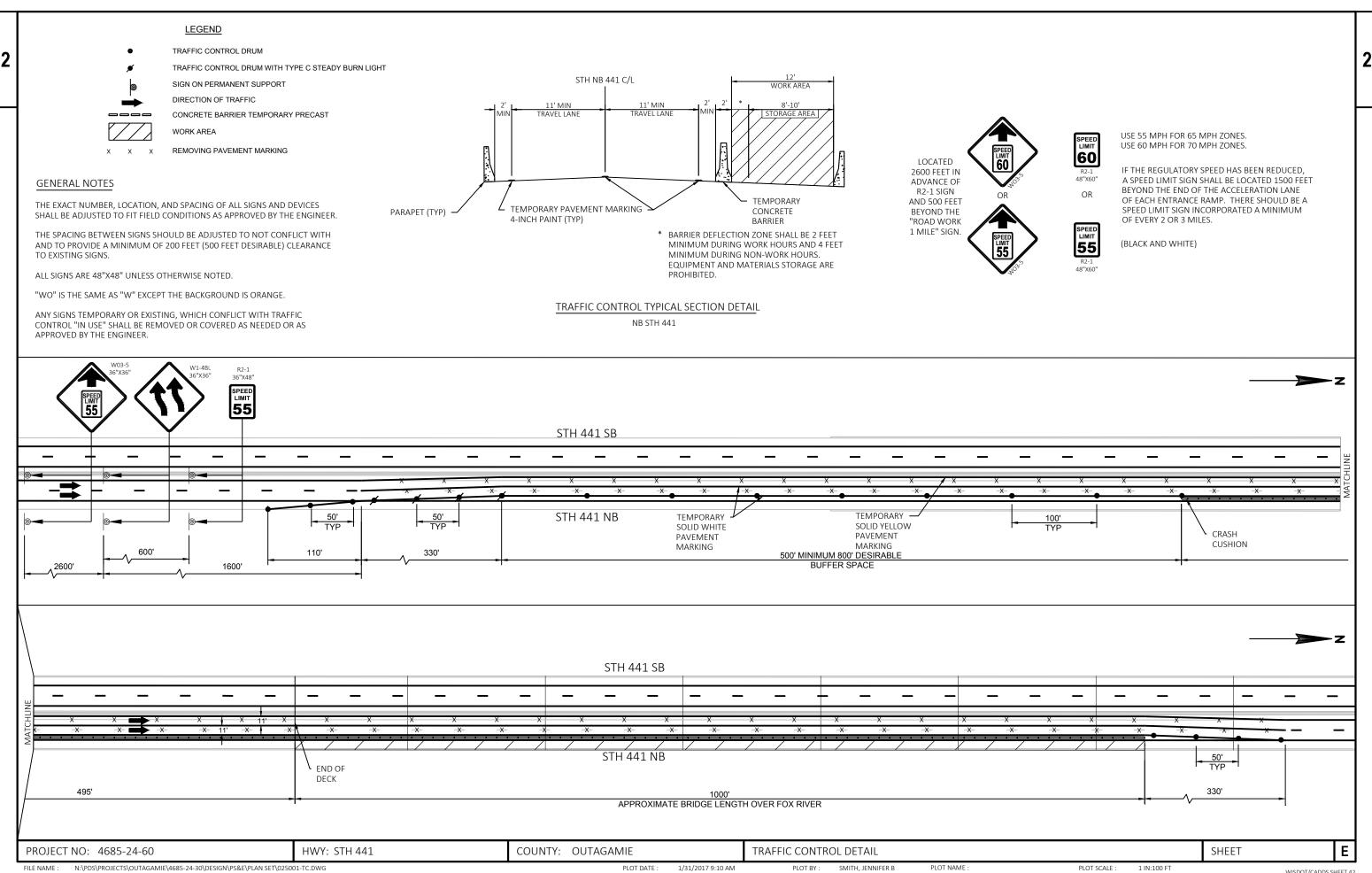
HWY:STH 441

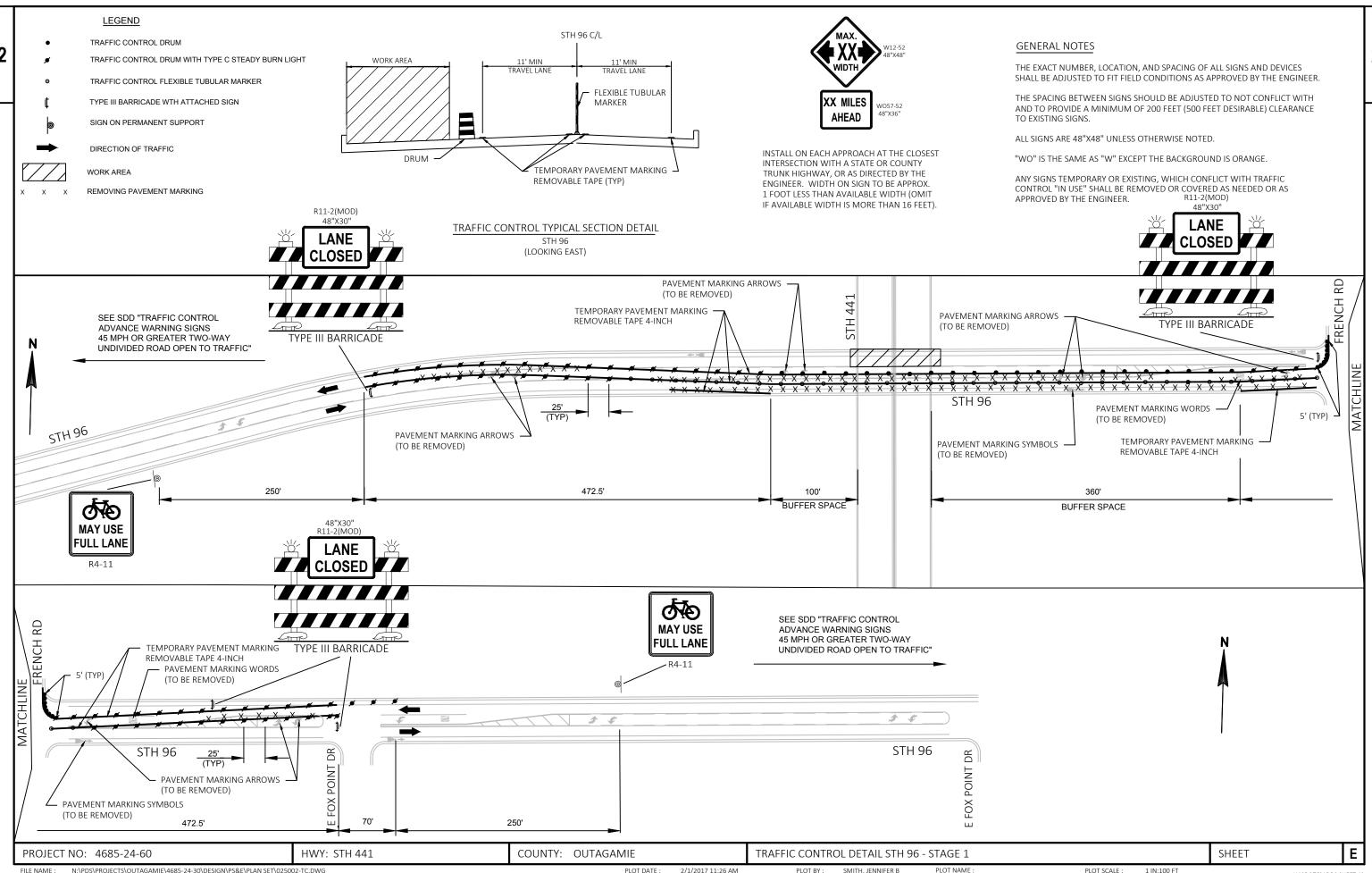
COUNTY: OUTAGAMIE

CONSTRUCTION DETAILS

SHEET

E





N:\PDS\PROJECTS\OUTAGAMIE\4685-24-30\DESIGN\PS&E\PLAN SET\025002-TC.DWG FILE NAME LAYOUT NAME - 025002-tc

2/1/2017 11:26 AM

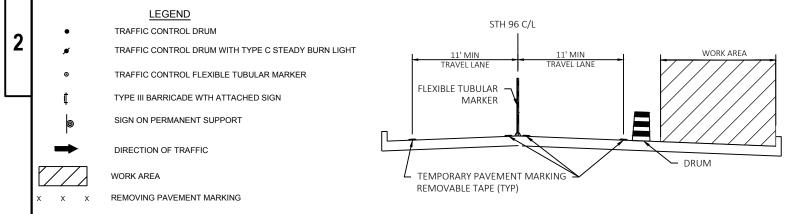
SMITH, JENNIFER B PLOT BY:

PLOT NAME

PLOT SCALE:

WISDOT/CADDS SHEET 42





INSTALL ON EACH APPROACH AT THE CLOSEST INTERSECTION WITH A STATE OR COUNTY TRUNK HIGHWAY, OR AS DIRECTED BY THE ENGINEER. WIDTH ON SIGN TO BE APPROX. 1 FOOT LESS THAN AVAILABLE WIDTH (OMIT IF AVAILABLE WIDTH IS MORE THAN 16 FEET).

XX MILES

AHEAD

WO57-52

**GENERAL NOTES** 

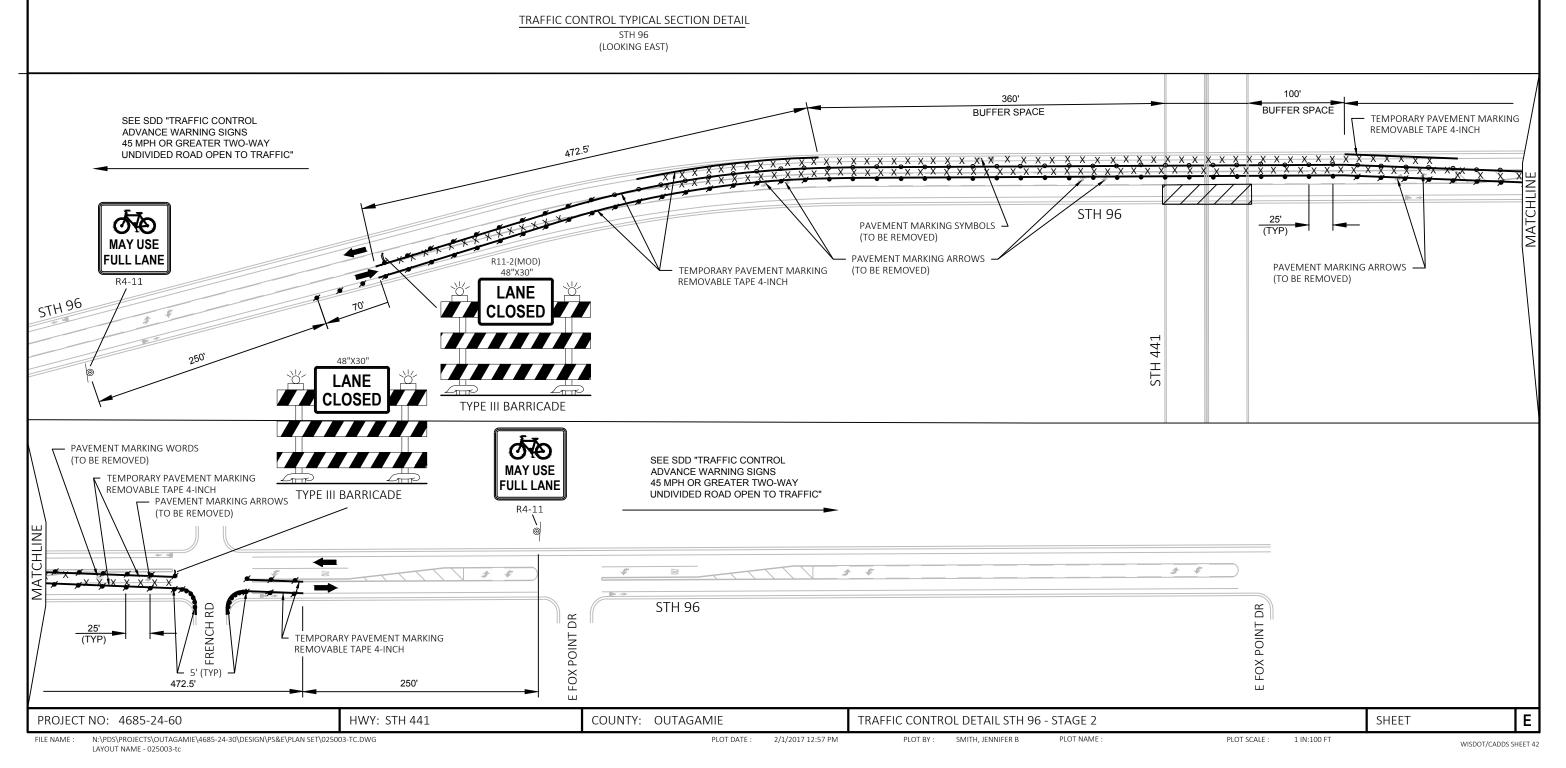
THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

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

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

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

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



					4685-24-60
Line	Item	Item Description	Unit	Total	Qty
0010	416.0610	Drilled Tie Bars	EACH	35.000	35.000
0020	416.0620	Drilled Dowel Bars	EACH	6.000	6.000
0030	517.1800.S	Structure Repainting Recycled Abrasive (structure) 01. B-44-126	LS	1.000	1.000
0040	517.4500.S	Negative Pressure Containment and Collection of Waste Materials (structure) 01. B-44-126	LS	1.000	1.000
0050	517.6001.S	Portable Decontamination Facility	EACH	1.000	1.000
0060	603.8000	Concrete Barrier Temporary Precast Delivered	LF	1,495.000	1,495.000
0070	603.8125	Concrete Barrier Temporary Precast Installed	LF	1,495.000	1,495.000
0800	614.0905	Crash Cushions Temporary	EACH	1.000	1.000
0090	619.1000	Mobilization	EACH	1.000	1.000
0100	642.5001	Field Office Type B	EACH	1.000	1.000
0110	643.0100	Traffic Control (project) 01. 4685-24-60	EACH	1.000	1.000
0120	643.0300	Traffic Control Drums	DAY	12,096.000	12,096.000
0130	643.0420	Traffic Control Barricades Type III	DAY	74.000	74.000
0140	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	776.000	776.000
0150	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	776.000	776.000
0160	643.0705	Traffic Control Warning Lights Type A	DAY	148.000	148.000
0170	643.0715	Traffic Control Warning Lights Type C	DAY	1,686.000	1,686.000
0180	643.0800	Traffic Control Arrow Boards	DAY	30.000	30.000
0190	643.0900	Traffic Control Signs	DAY	538.000	538.000
0200	643.1050	Traffic Control Signs PCMS	DAY	21.000	21.000
0210	646.0106	Pavement Marking Epoxy 4-Inch	LF	11,574.000	11,574.000
0220	646.0126	Pavement Marking Epoxy 8-Inch	LF	100.000	100.000
0230	646.0600	Removing Pavement Markings	LF	11,674.000	11,674.000
0240	646.0690.S	Removing Pavement Markings Water Blasting	LF	8,865.000	8,865.000
0250	647.0955	Removing Pavement Markings Arrows	EACH	8.000	8.000
0260	647.0960	Removing Pavement Markings Symbols	EACH	4.000	4.000
0270	647.0965	Removing Pavement Markings Words	EACH	2.000	2.000
0280	649.0400	Temporary Pavement Marking Removable Tape 4-Inch	LF	6,514.000	6,514.000
0290	649.0402	Temporary Pavement Marking Paint 4-Inch	LF	8,865.000	8,865.000
0300	690.0250	Sawing Concrete	LF	63.000	63.000
0310	801.0117	Railroad Flagging Reimbursment	DOL	17,000.000	17,000.000
0320	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	2,400.000	2,400.000
0330	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	2,100.000	2,100.000
0340	SPV.0090	Special 01. Filling Rumble Strips	LF	1,460.000	1,460.000
		,			
0350	SPV.0180	Special 01. Concrete Pavement Repair HES	SY	13.000	13.000

416.0620	<u>690.0250</u>	SPV.0090.01	SPV.0180.01
		FILLING	CONCRETE
DRILLED	SAWING	RUMBLE	PAVEMENT

DRILLED DRIL TIE BARS DOWEL BARS CONCRETE STRIPS REPAIR HES STATION TO STATION LOCATION EACH EACH LF LF SY 548+25 - 548+50 STH 441 NB LT SHOULDER 35 6 63 13 STH 441 NB LT SHOULDER 533+60 - 548+20 1,460 35 6 63 1,460 13 **TOTAL** 

**CONCRETE REPAIR SUMMARY** 

416.0610

CONCRETE BARRIER TEMPORARY PRECAST SUMMARY									
		<u>603.8000</u>	<u>603.8125</u>	<u>614.0905</u>					
		CONCRETE BARRIER	CONCRETE BARRIER	CRASH					
		TEMPORARY PRECAST	TEMPORARY PRECAST	CUSHION					
		DELIVERED	INSTALLED	TEMPORARY					
STATION TO STATION	LOCATION	LF	LF	EACH					
543+55 - 558+50	STH 441 NB	1495	1495						
543+55 - 543+70	STH 441 NB			1					
	TOTAL	1495	1495	1					

TRAFFIC CONTROL SUMMARY																					
			<u>643.0</u>	<u>300</u>	643.04 BARRIC		643.0		643.0 FLEXIBLE		<u>643.0</u> WARNING		643.0 WARNING		643.08	<u>300</u>	643.0	<u>900</u>	<u>643.1</u>	050	
		APPROX.	DRU	MS	TYPE	III	MARKER	POSTS	MARKER	BASES	TYPI	ΕA	TYPI	EC	ARROW B	OARDS	SIGN	NS	PCN	MS	_
		SERVICE	NO. IN		NO. IN		NO. IN		NO. IN		NO. IN		NO. IN		NO. IN		NO. IN		NO. IN		
STATION TO STATION	LOCATION	DAYS	SERVICE	DAYS	SERVICE	DAYS	SERVICE	DAYS	SERVICE	DAYS	SERVICE	DAYS	SERVICE	DAYS	SERVICE	DAYS	SERVICE	DAYS	SERVICE	DAYS	REMARKS
-	STH 96	3	5	15		0		0		0		0		0		0		0	2	6	ADVANCED NOTICE
-	STH 96	6	444	2664	2	12	28	168	28	168	4	24	68	408		0	19	114		0	STAGE 1 (TRAFFIC SHIFT TO SOUTH)
-	STH 96	16	436	6976	2	32	38	608	38	608	4	64	47	752		0	19	304		0	STAGE 2 (TRAFFIC SHIFT TO NORTH)
531+55 - 561+80	STH 441 NB	79	19	1501		0		0		0		0	4	316		0		0		0	AHEAD OF BARRIER
548+50 - 572+00	STH 441 SB	15	10	150	2	30		0		0	4	60	14	210	2	30	8	120	1	15	3 DAYS PER SPAN
-	STH 441 SB	79	10	790				0		0											ON SHOULDER BY CONTAINMENT
		TOTAL		12096		74		776		776		148		1686		30		538		21	

STATE PROJECT NO: 4685-24-60 HWY: STH 441 COUNTY: OUTAGAMIE MISCELLANEOUS QUANTITIES SHEET NO: E

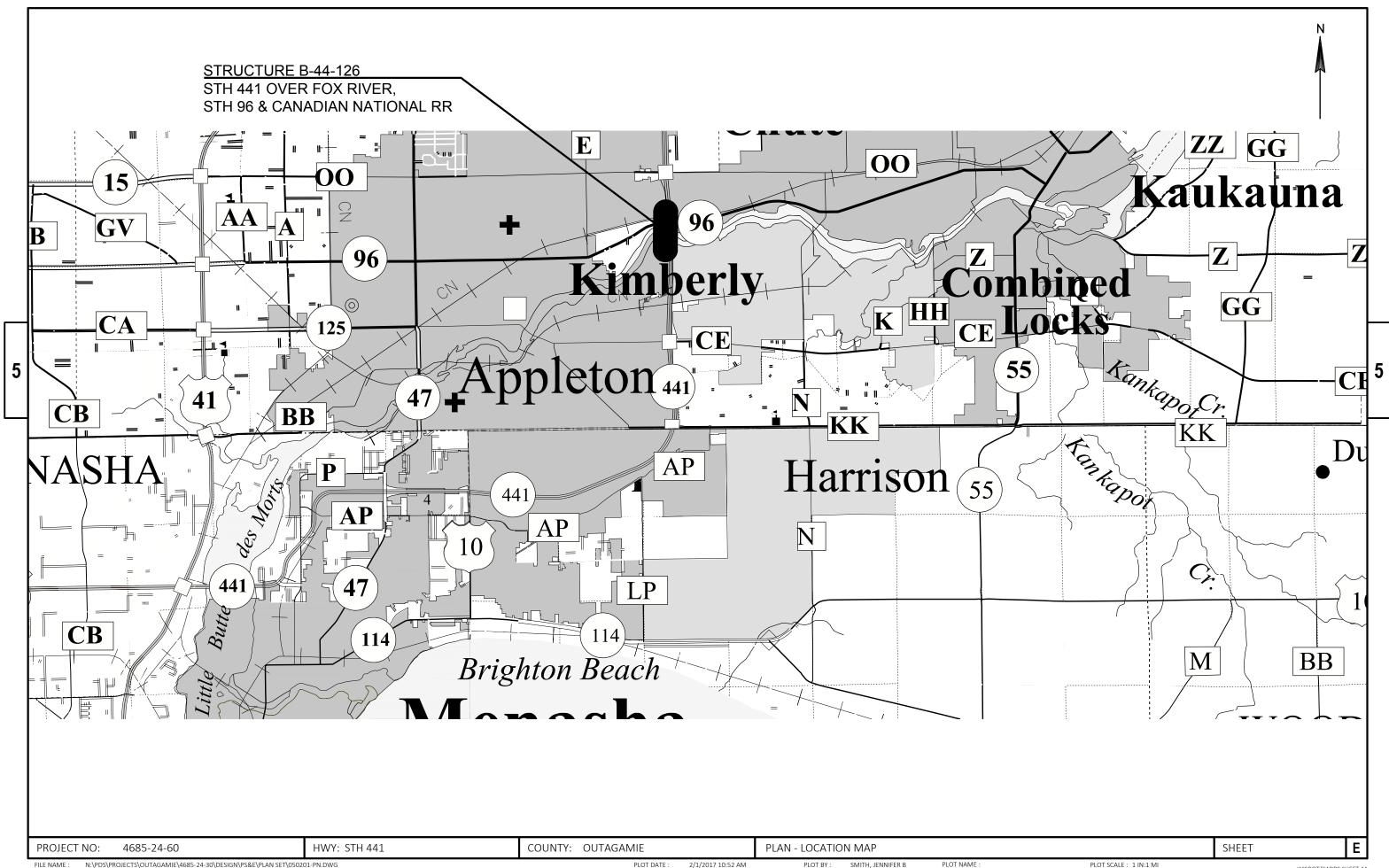
FILE NAME : Q:\MISCQUANTITIES\4685-24-60\ENG.SHEET PLOT DATE : PLOT BY : DOTM1J PLOT NAME : \_\_\_\_\_ ORG DATE : \_\_\_\_ ORIGINATOR : NE REGION PLOT SCALE : 1:1

	PAVEMENT MARKING SUMMARY										
646.0106 646.0126 649.0400 649.0402  PAVEMENT TEMPORARY TEMPORARY  EPOXY 4-INCH MARKINGS PAVEMENT MARKING PAVEMENT MARKING											
	г		EPOXY 4-INCH		_	PAVEMENT MARKING					
		EDGELINE   C/L PASSING		EPOXY	REMOVABLE TAPE	PAINT					
		YELLOW	WHITE	8-INCH	4-INCH	4-INCH					
STATION TO STATION	LOCATION	LF	LF	LF	LF	LF	REMARKS				
532+25 - 561+80	STH 441 NB	2955	739			8865	WATER BLAST TEMPORARY MARKING				
-	STH 96	2189	1751	100	3182		STAGE 1 (TRAFFIC SHIFT TO SOUTH)				
- STH 96 2189 1751					3332		STAGE 2 (TRAFFIC SHIFT TO NORTH)				
SUBTOTAL	-	7333	4241								
TOTAL 11574					6514	8865					

REMOVING PAVEMENT MARKING SUMMARY										
		646.0600	646.0690.S	<u>647.0955</u>	<u>674.960</u>	<u>647.965</u>				
			REMOVING	REMOVING	REMOVING	REMOVING				
		REMOVING	PAVEMENT	PAVEMENT	PAVEMENT	PAVEMENT				
		PAVEMENT	MARKINGS	MARKINGS	MARKINGS	MARKINGS				
		MARKINGS	WATER BLASTING	ARROWS	SYMBOLS	WORDS				
STATION TO STATION	LOCATION	LF	LF	EACH	EACH	EACH	REMARKS			
532+25 - 561+80	STH 441 NB	3694	8865				WATER BLAST TEMPORARY MARKING			
-	STH 96	4040		8	2	2	STAGE 1 (TRAFFIC SHIFT TO SOUTH)			
-	STH 96	3940			2		STAGE 2 (TRAFFIC SHIFT TO NORTH)			
TOTAL		11674	8865	8	4	2				

STATE PROJECT NO: 4685-24-60 HWY: STH 441 COUNTY: OUTAGAMIE MISCELLANEOUS QUANTITIES SHEET NO: E

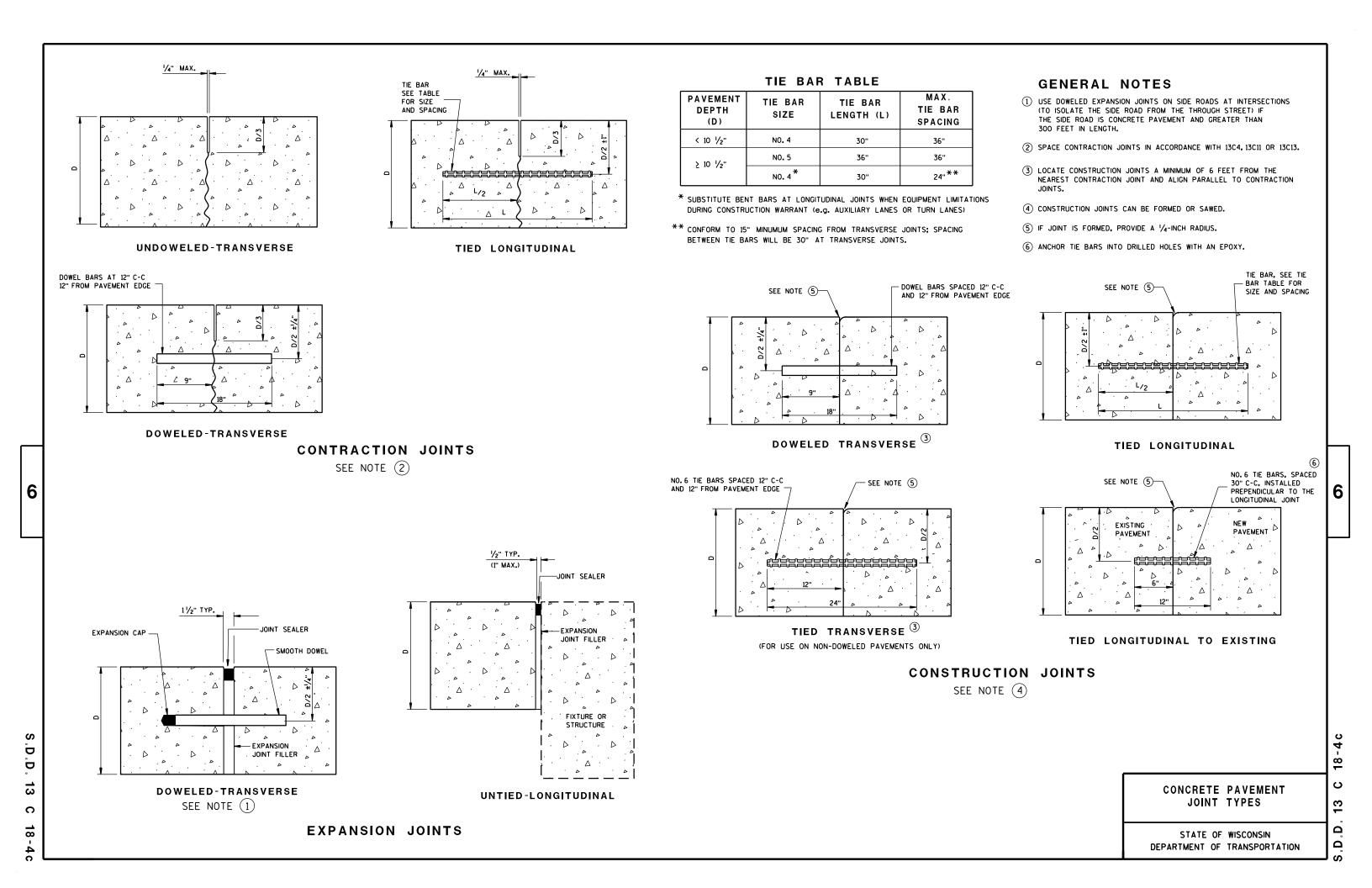
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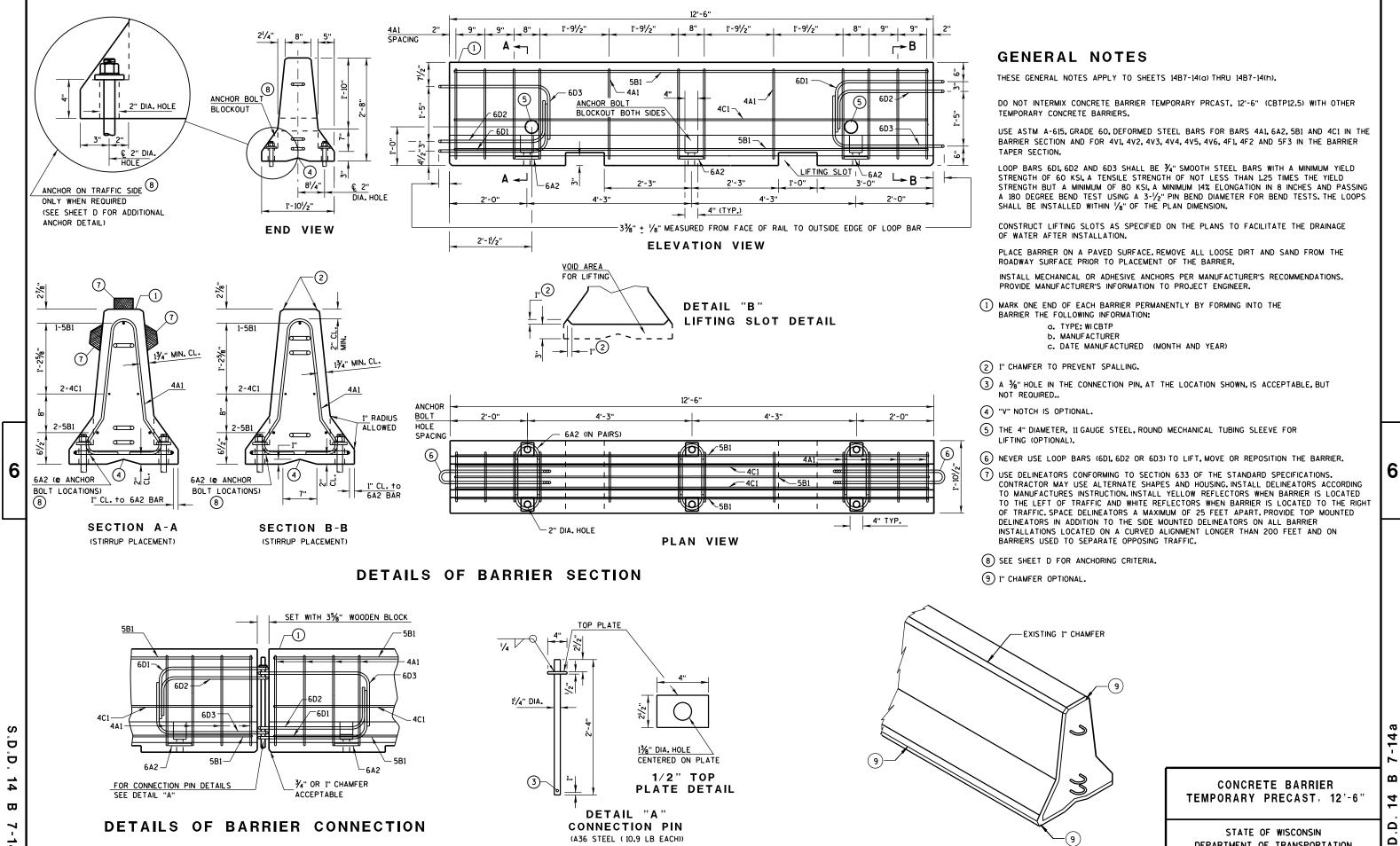


### Standard Detail Drawing List

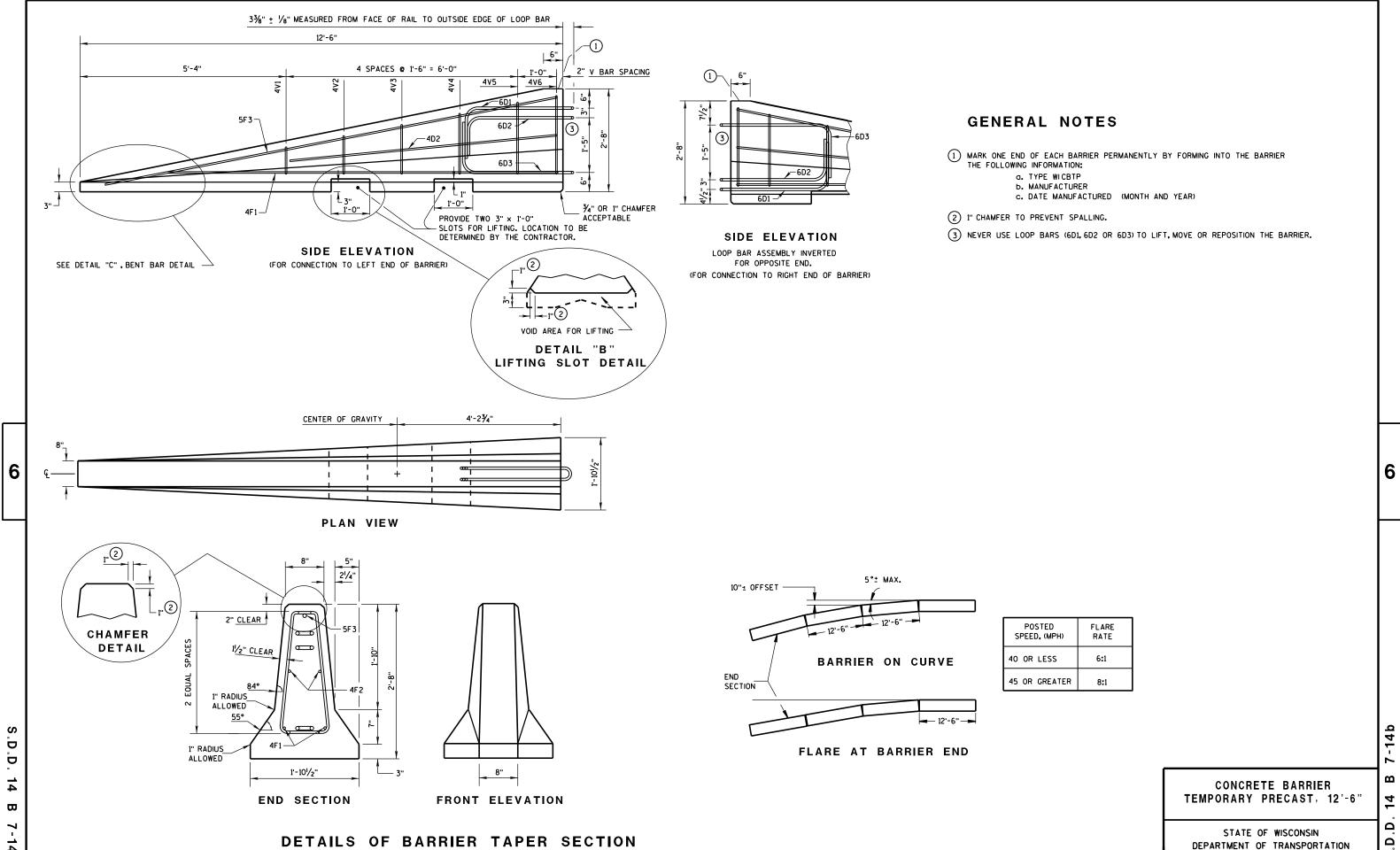
13C18-04C	CONCRETE PAVEMENT JOINT TIES
14B07-14A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-02A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C08-17B	PAVEMENT MARKING (TURN LANES)
15C11-06	FLEXIBLE TUBULAR MARKER POST
15C19-04A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-04C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15D12-06B	TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION
15D15-02	TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE
15D27-03	TRAFFIC CONTROL. SHOULDER CLOSURE ON DIVIDED ROADWAY. SPEEDS GREATER THAN 40 MPH

6





DEPARTMENT OF TRANSPORTATION



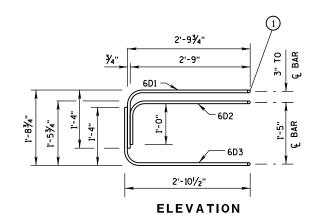
Ω

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

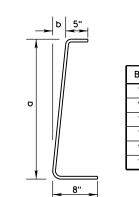
### BARRIER TAPER SECTION BILL OF MATERIALS

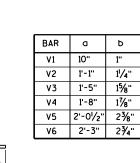
(PER 12'-6" BARRIER TAPER SECTION)

WENTE O BANKEN TALEN 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	OOP AS	SSEMBL	Υ					
6D1	6	1	8'-5"					
6D2	6	1	7'-7"					
6D3	6	1	8'-6"					
		•	•					



LOOP BAR ASSEMBLY





DETAIL "C" BENT BAR DETAIL

2" MIN. CLEAR

2" MIN. CLEAR

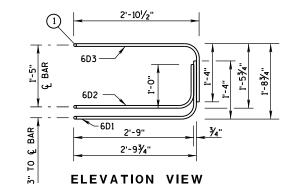
4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

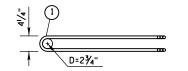
TAPER BARRIER SECTION

## BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

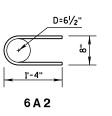
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
L	OOP AS	SSEMBL	Υ
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"

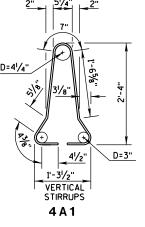




PLAN VIEW Loop bar assembly

(MARKED END SHOWN, INVERT FOR OTHER END)





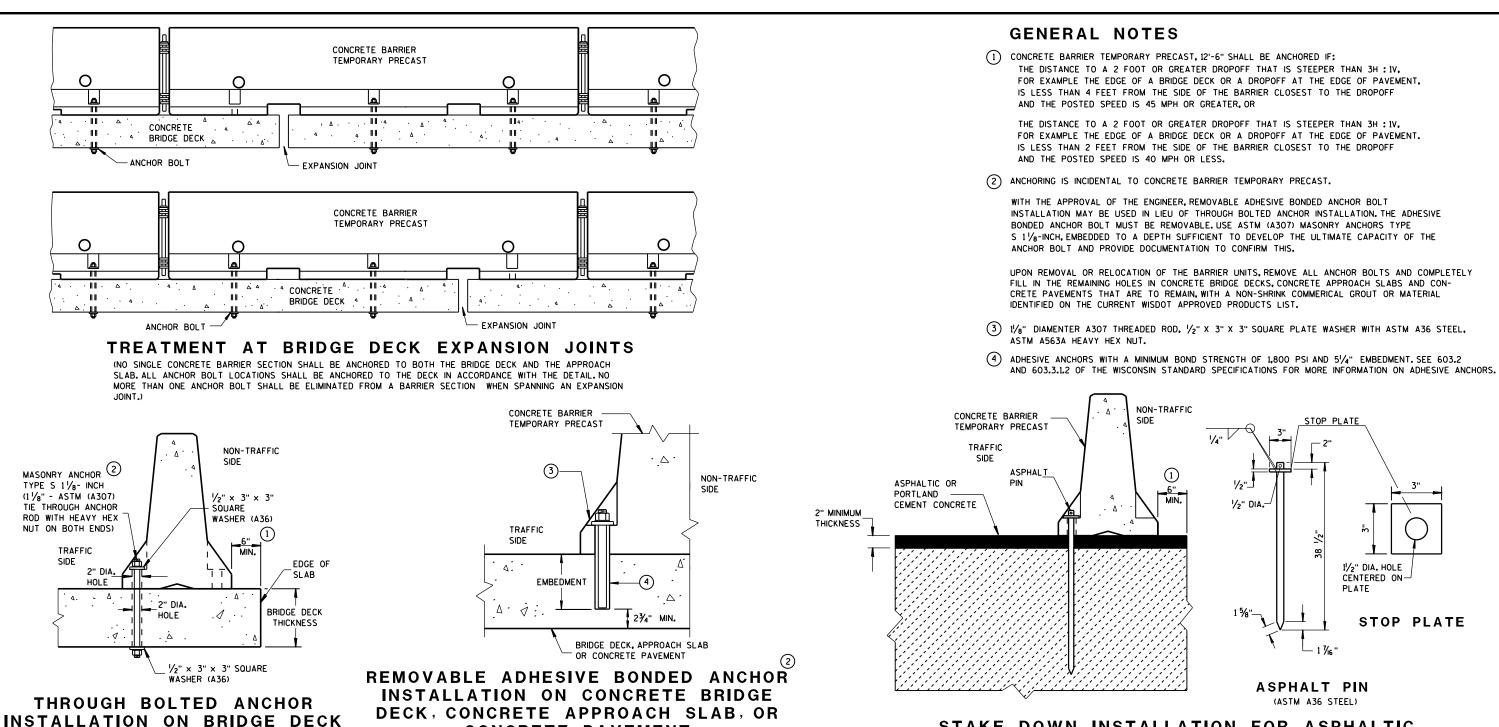
### BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

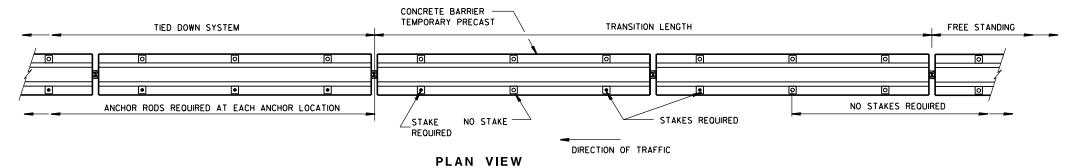
.D.D. 14 B 7-14c

6



### STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



**CONCRETE PAVEMENT** 

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

6

D

 $\Box$ 

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

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

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

11/2" DIA. HOLE

CENTERED ON-

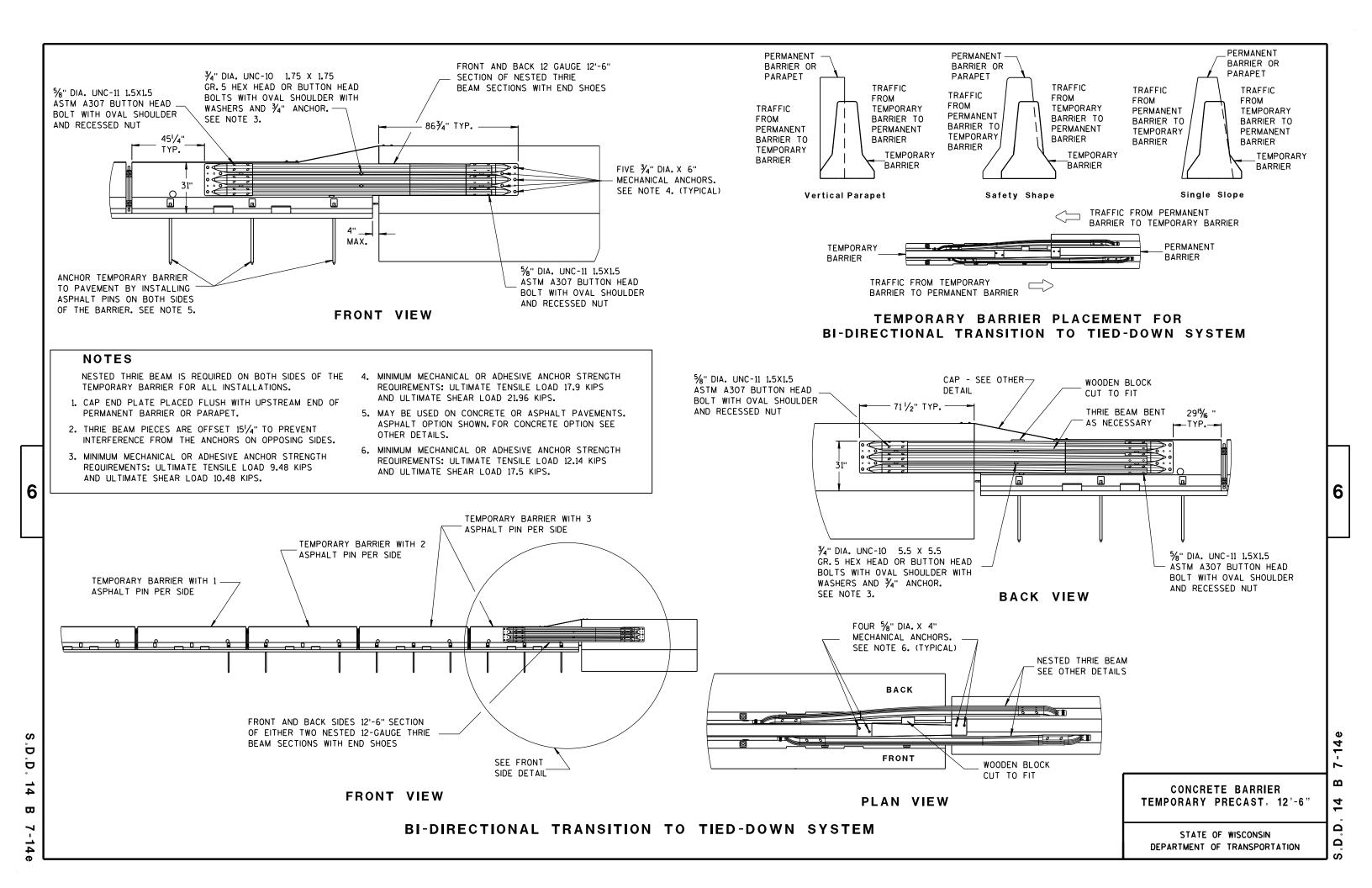
STOP PLATE

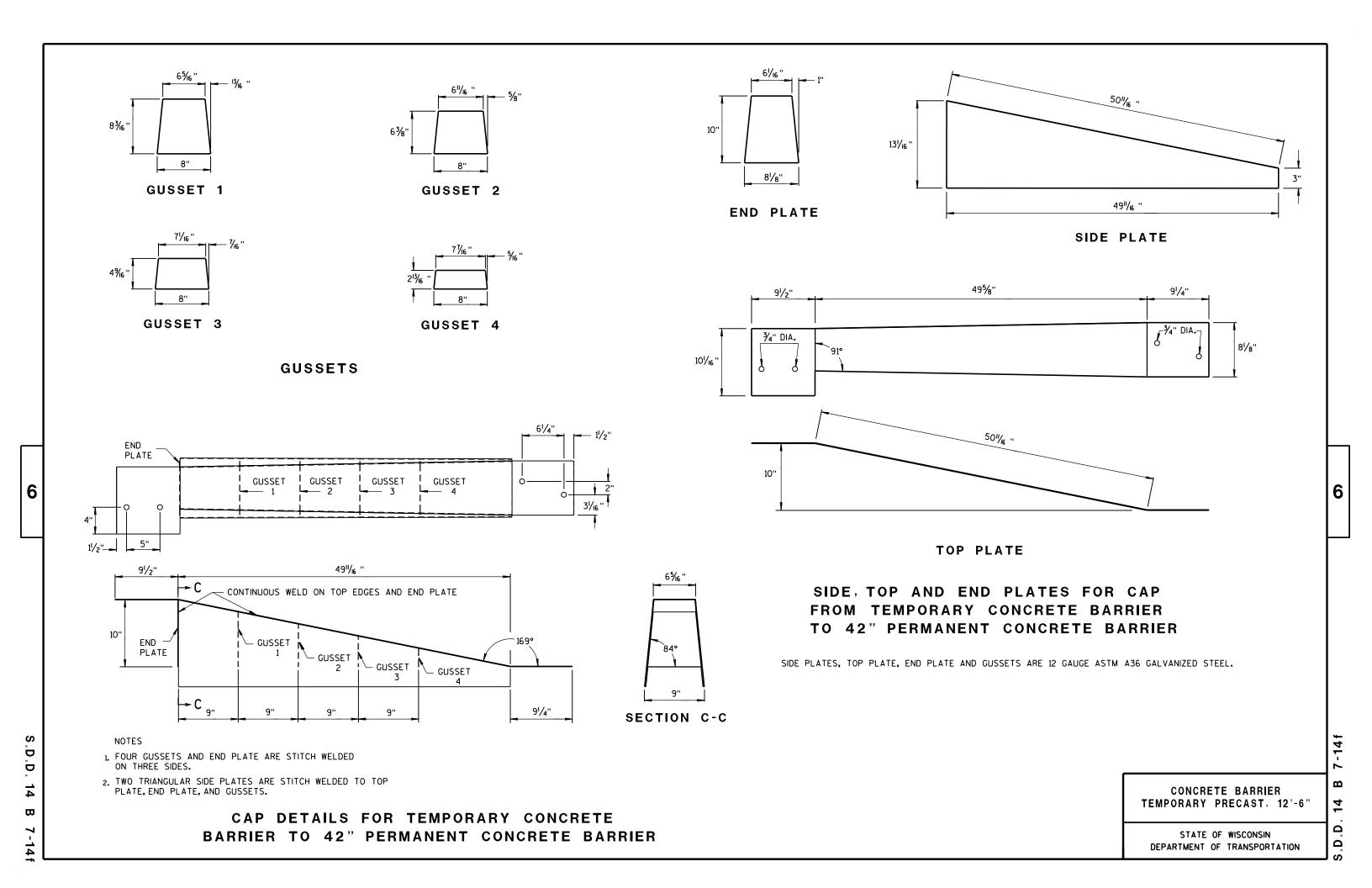
PLATE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6

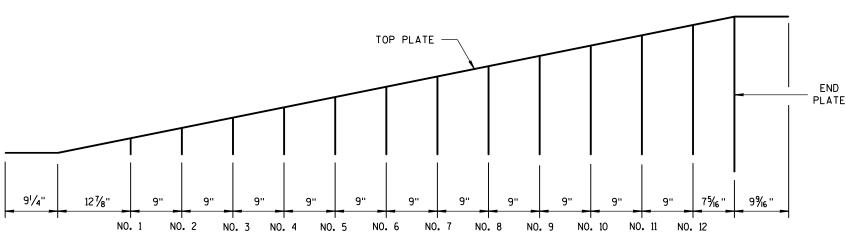
4 Δ Δ





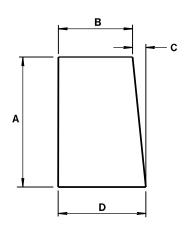
6

D Ď



**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 "	8½6"				
4	85%"	73/16"	<b>⅓</b> "	81/16"				
5	101/8"	7''	1 1/16 "	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% "	6⅓6"	1 % "	81/16"				
9	173/8"	6 <sup>1</sup> /4"	1 13/16 "	81/16"				
10	193/6"	6½ <sub>6</sub> "	1 15/16 "	81/16 "				
11	21"	5 1/8"	23/6"	8½ <sub>6</sub> "				
12	22 <sup>13</sup> / <sub>16</sub> "	5 <sup>11</sup> / <sub>16</sub> "	25/6"	8½ <sub>6</sub> "				

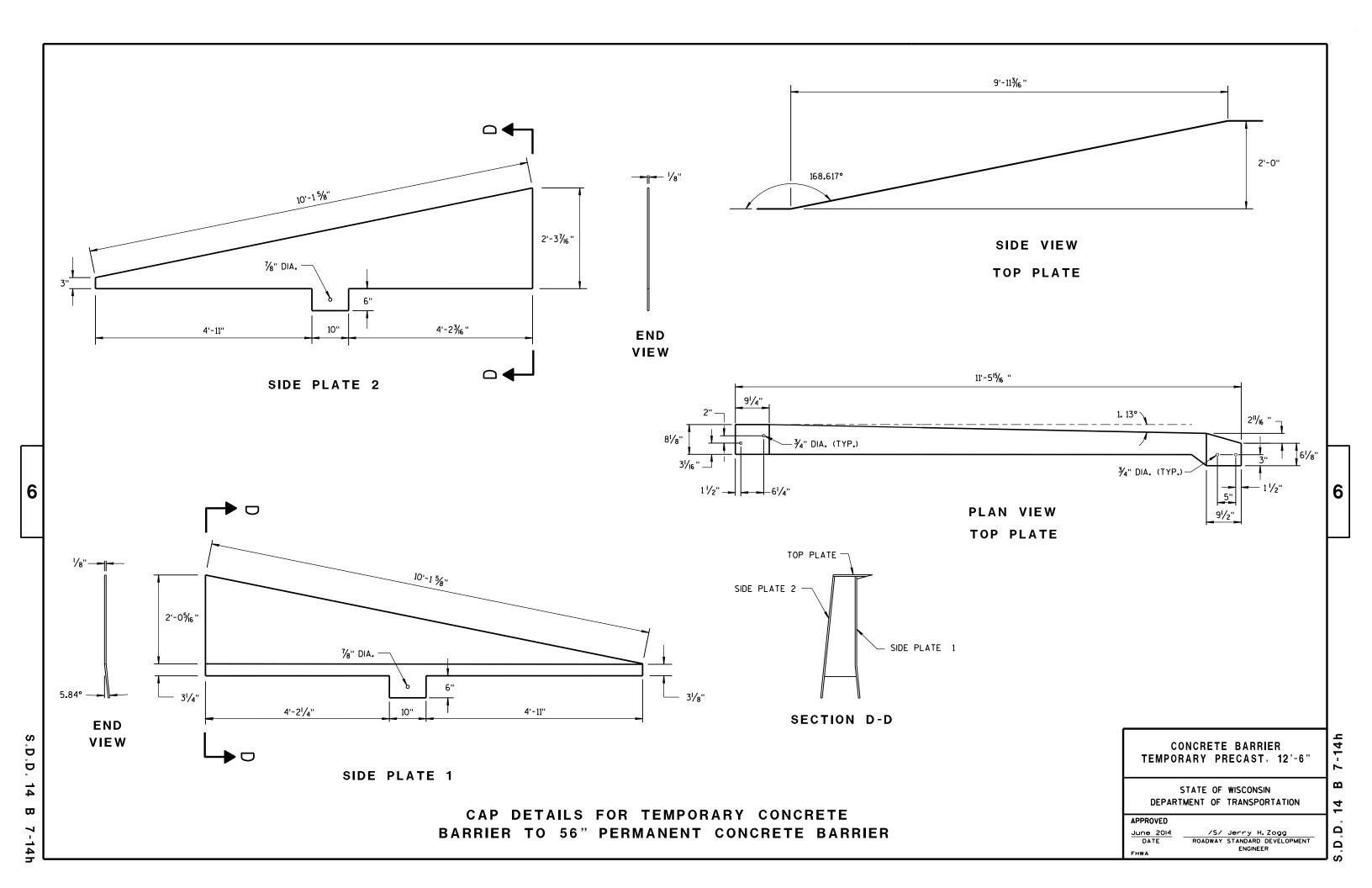
SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

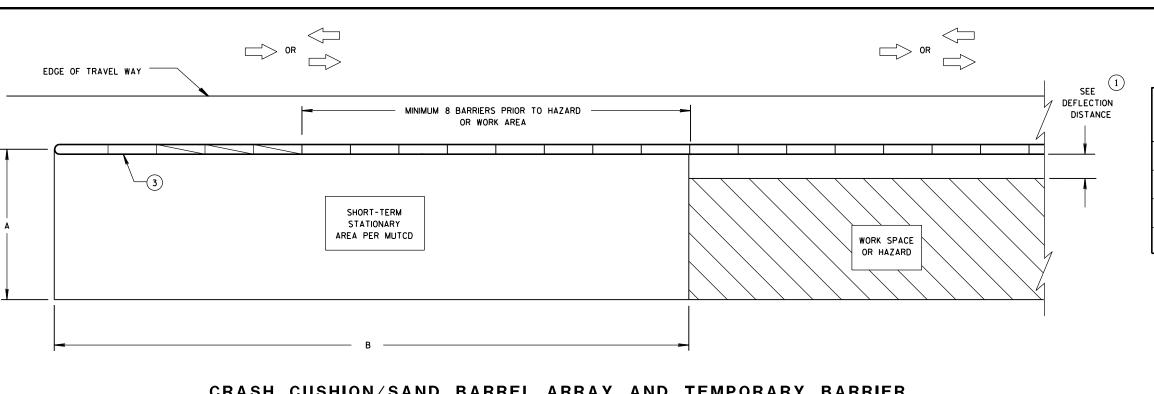
GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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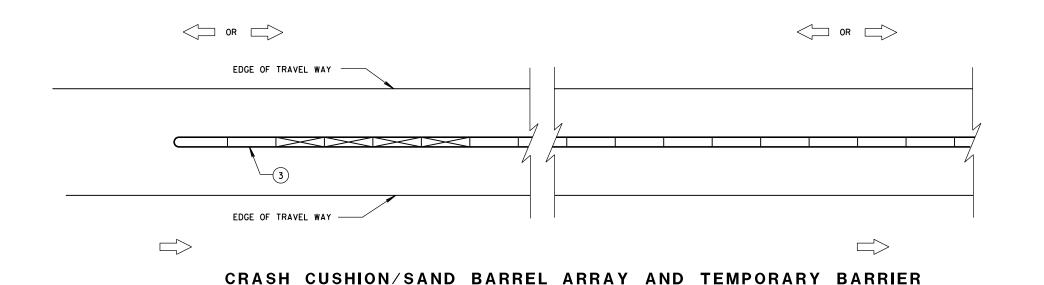
### DIMENSION A TABLE (2)

		DIMENSION A			
FACILITY	POSTED SPEED MPH	MIN. FT	MAX. FT		
FREEWAY/EXPRESSWAY	ALL	15	20		
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15		
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10		
AADT LESS THAN 1,500	ALL	8	10		

### DIMENSION B TABLE (2)

POSTED	DIMENSION
SPEEDS	В
MPH	FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645

### CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER



INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

OR CONCRETE PARAPET

FREE STANDING TEMPORARY BARRIER

#### LEGEND

PERMANENT CONCRETE BARRIER

### **GENERAL NOTES**

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SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

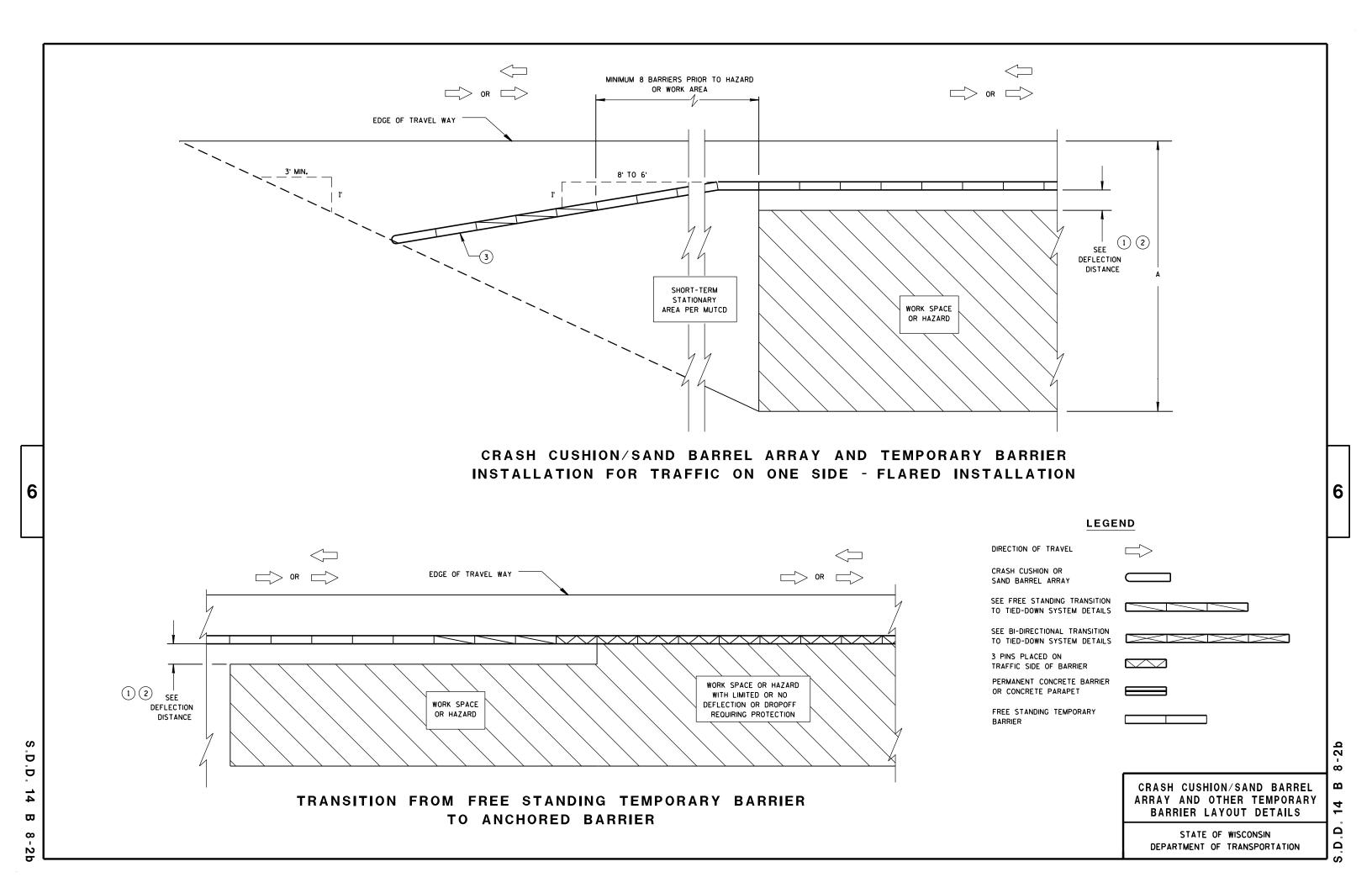
- (1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.
- (2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.
- (3) ANCHOR TEMPORARY BARRIER ACCORDING TO CRASH CUSHION OR SAND BARREL MANUFACTURER'S RECOMMENDATIONS. IF MANUFACTURER'S RECOMMENDATIONS ARE NOT PROVIDED, ANCHOR 3 PINS ON TRAFFIC SIDE.

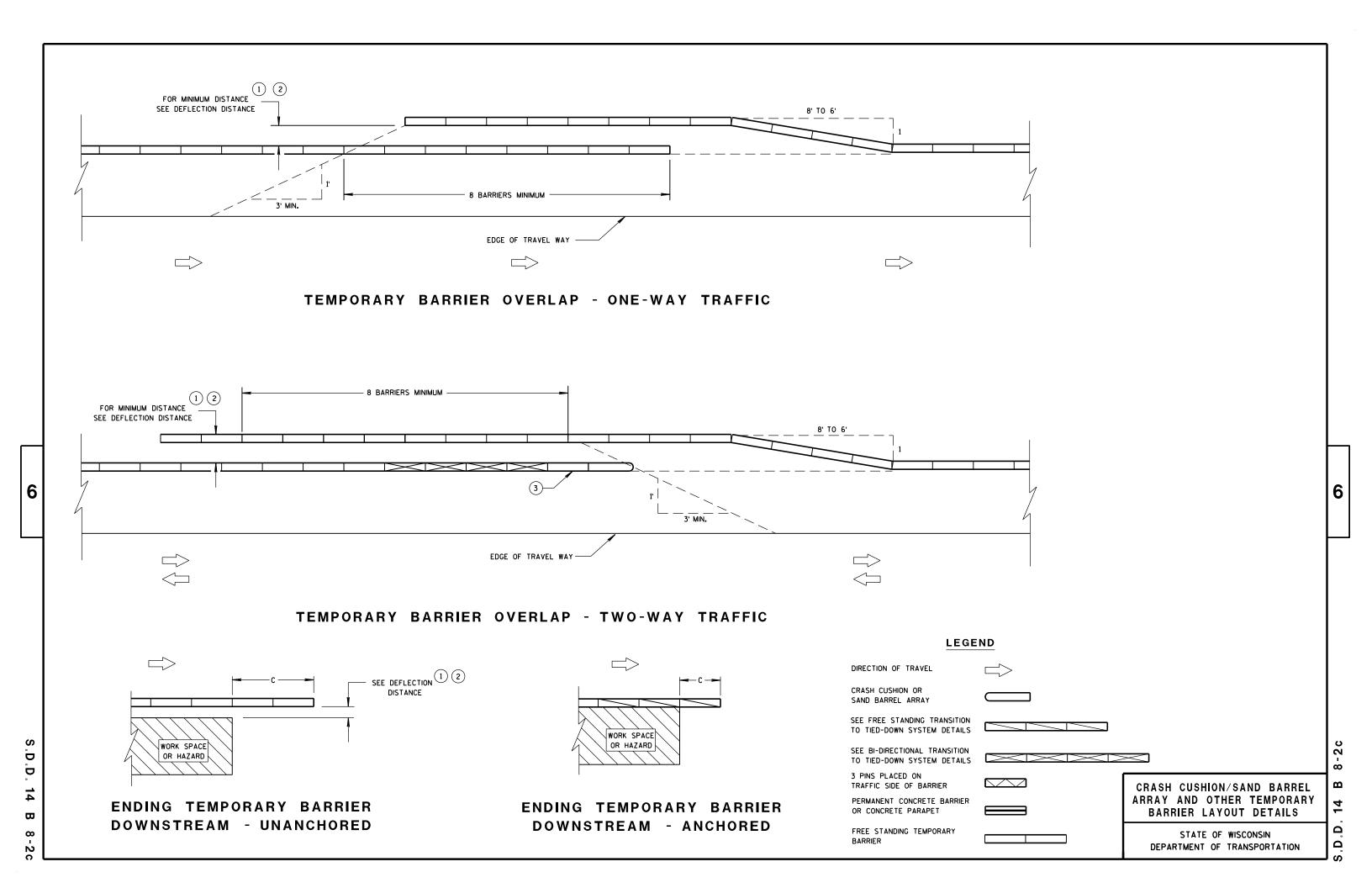
CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

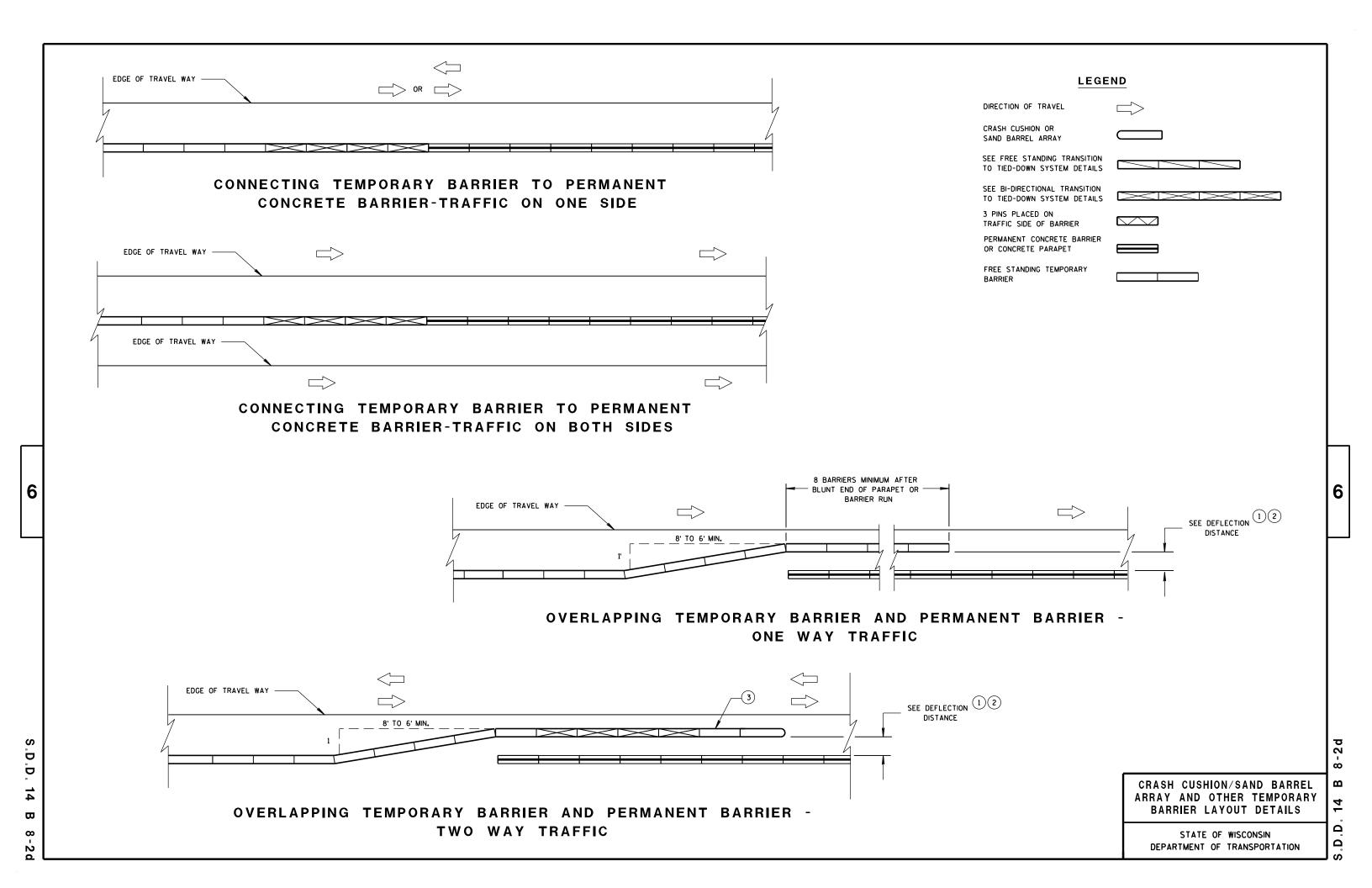
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

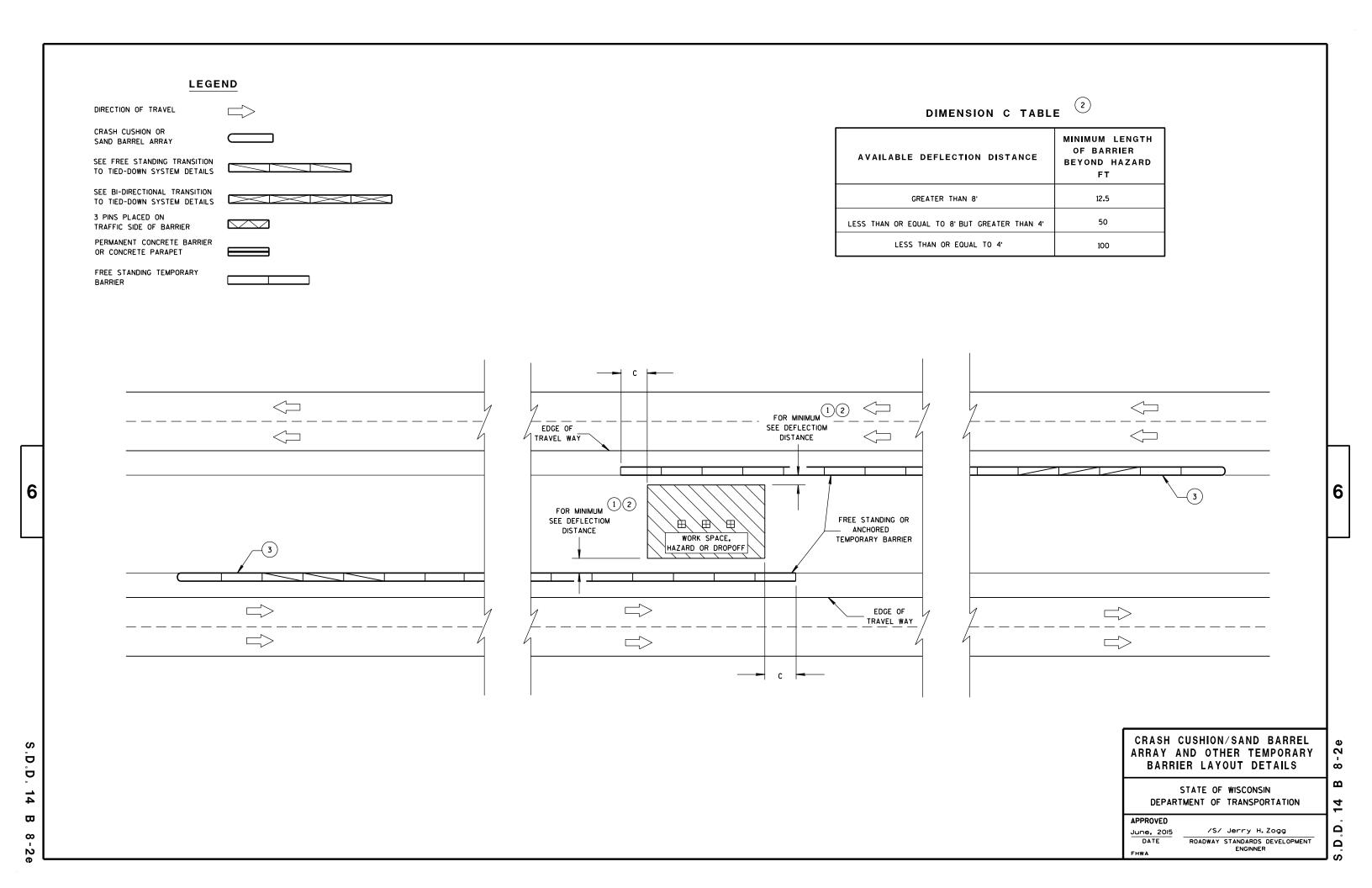
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#### **GENERAL NOTES**

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

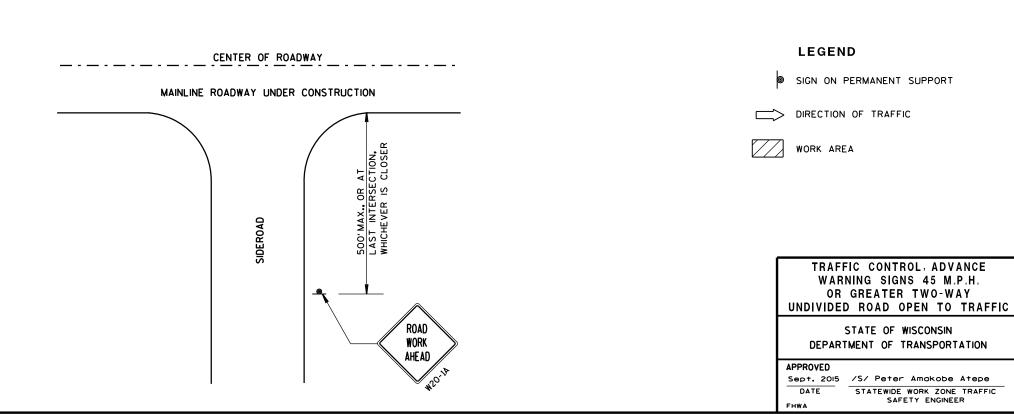
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.

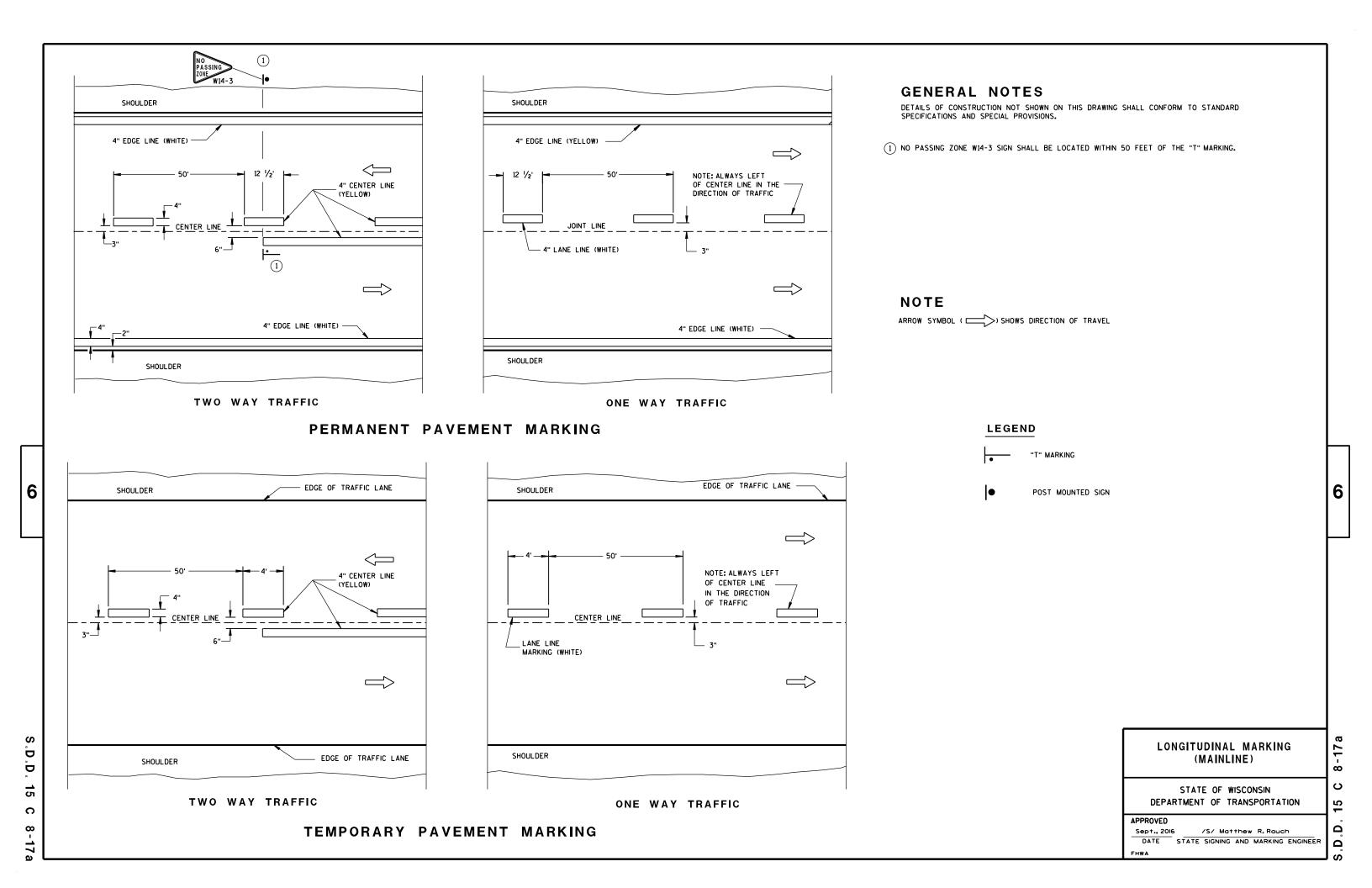
- \* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- \* PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.

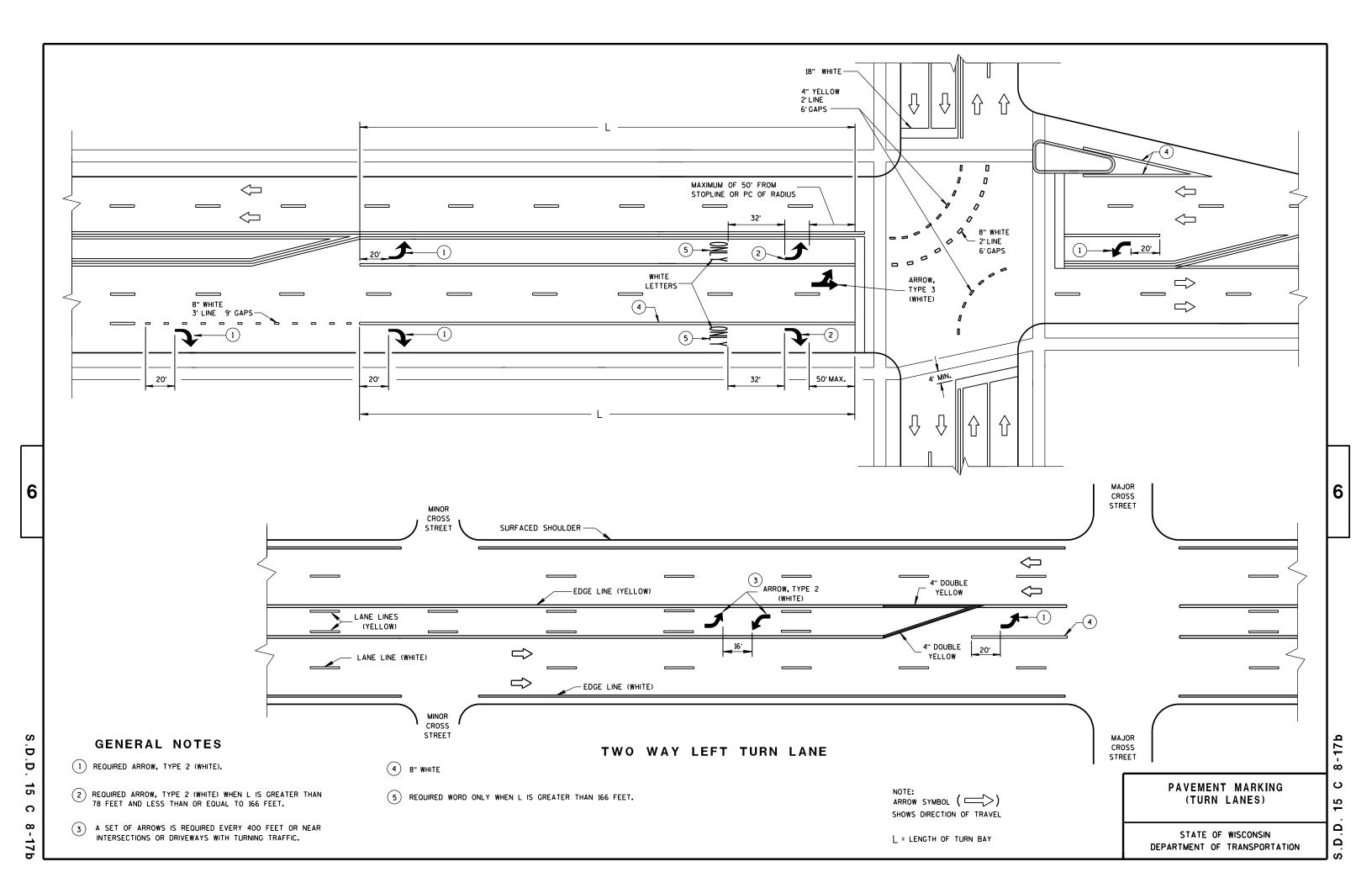


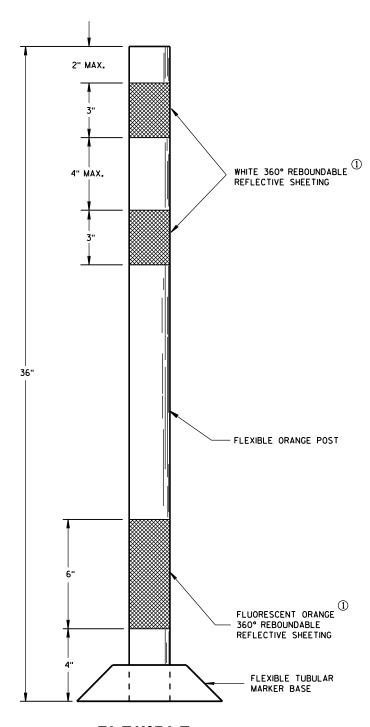
6

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SAFETY ENGINEER







**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.

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

> FLEXIBLE TUBULAR MARKER POST

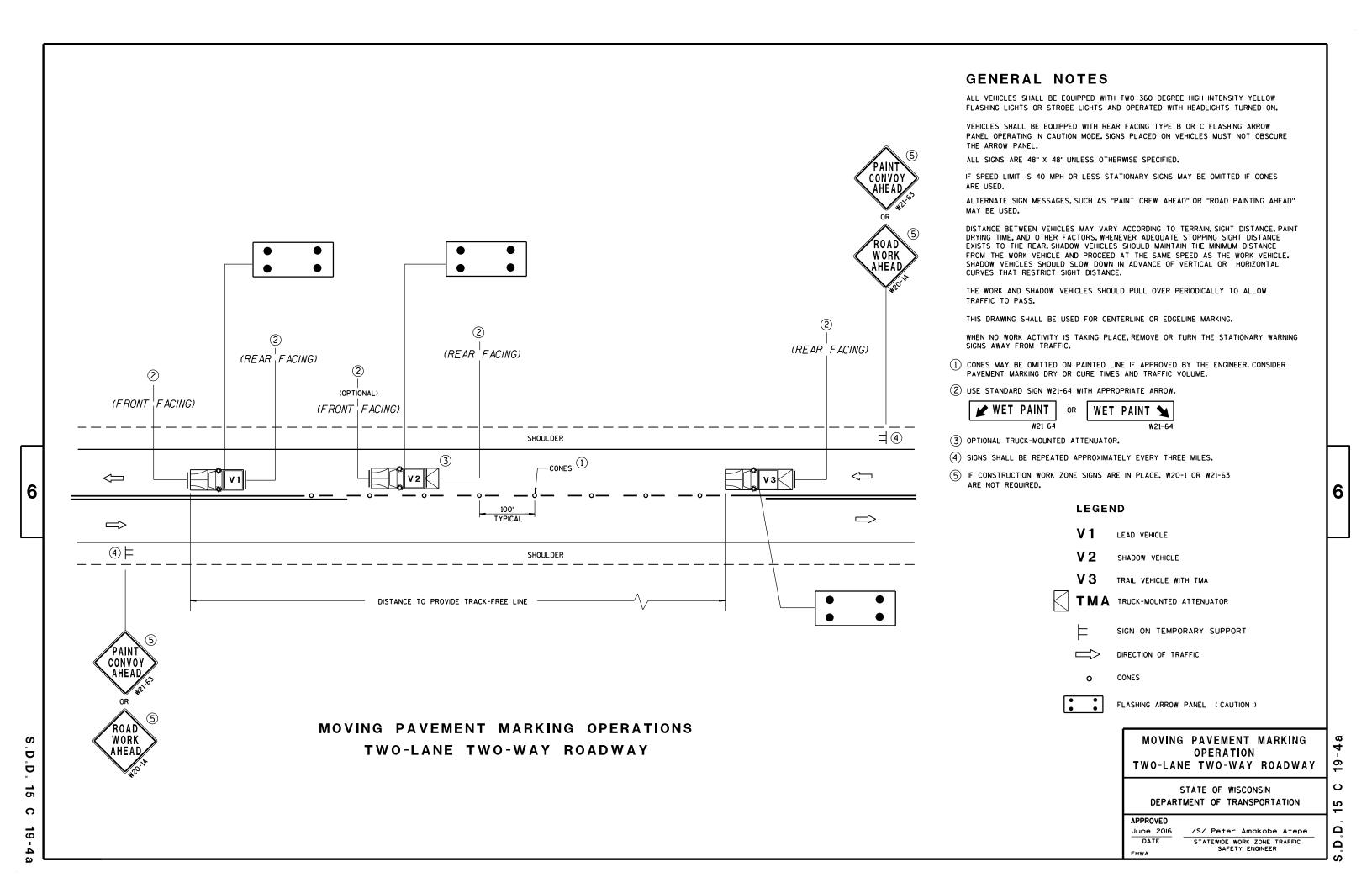
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

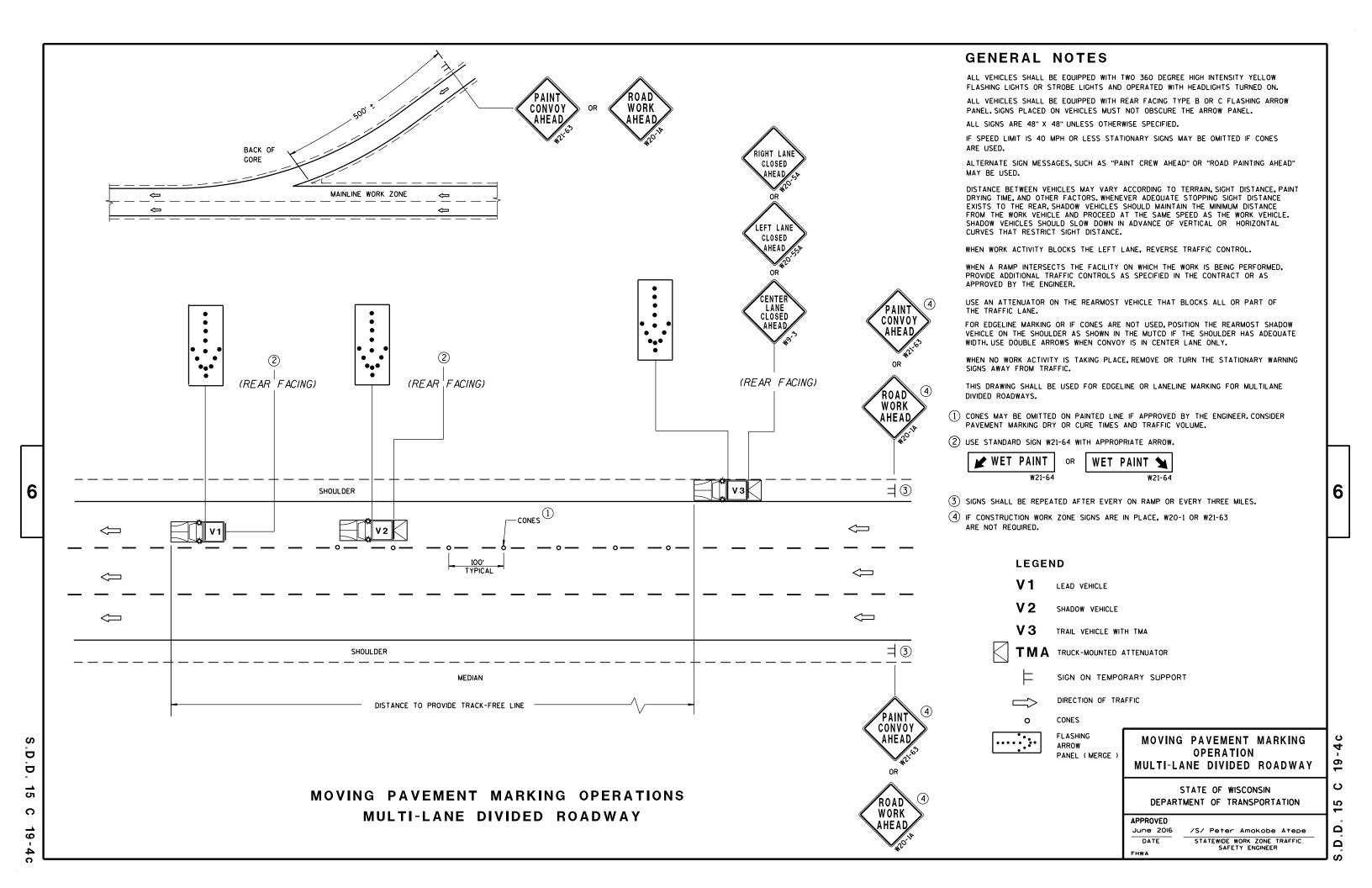
APPROVED

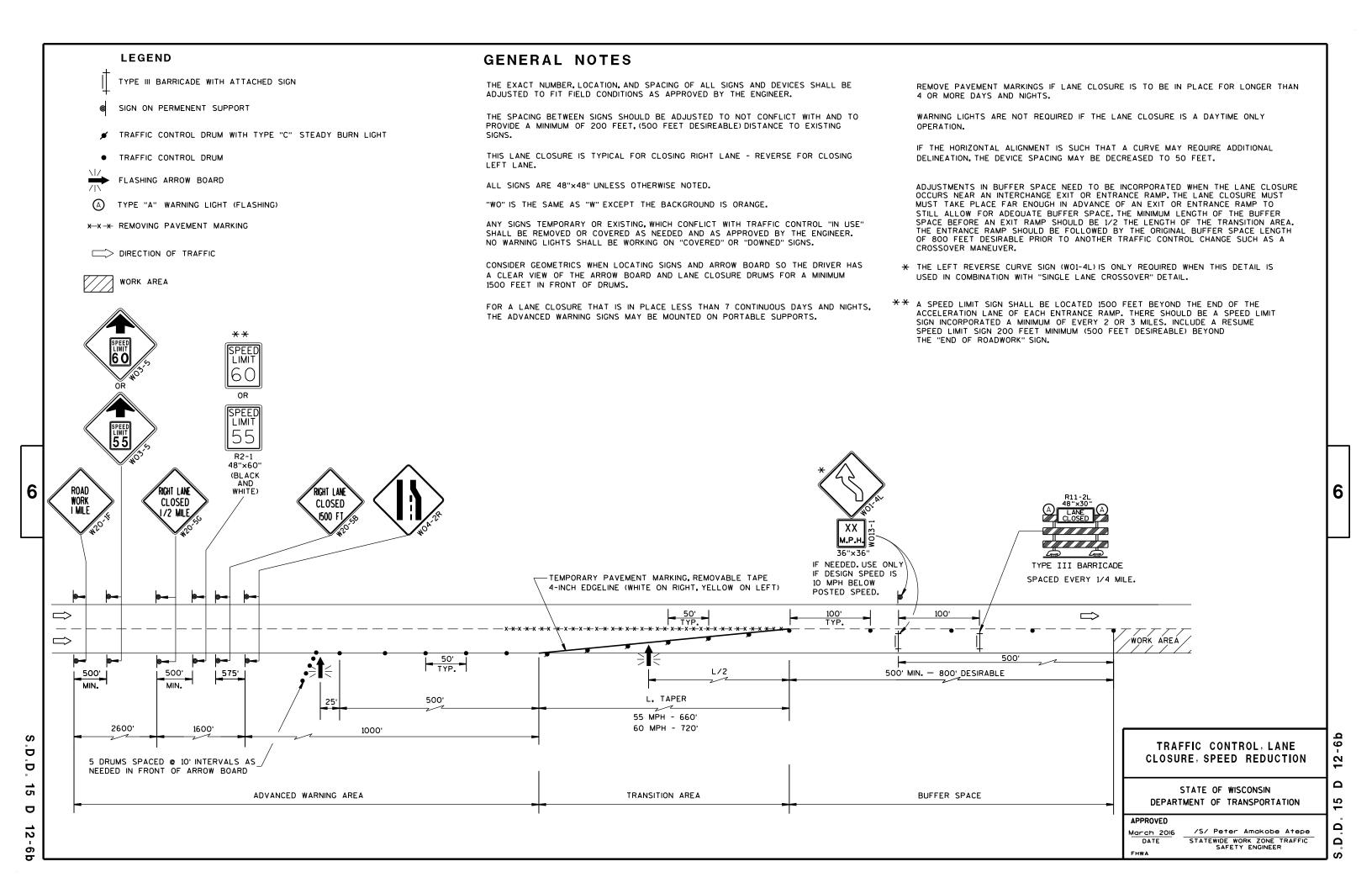
10-16-2015 STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

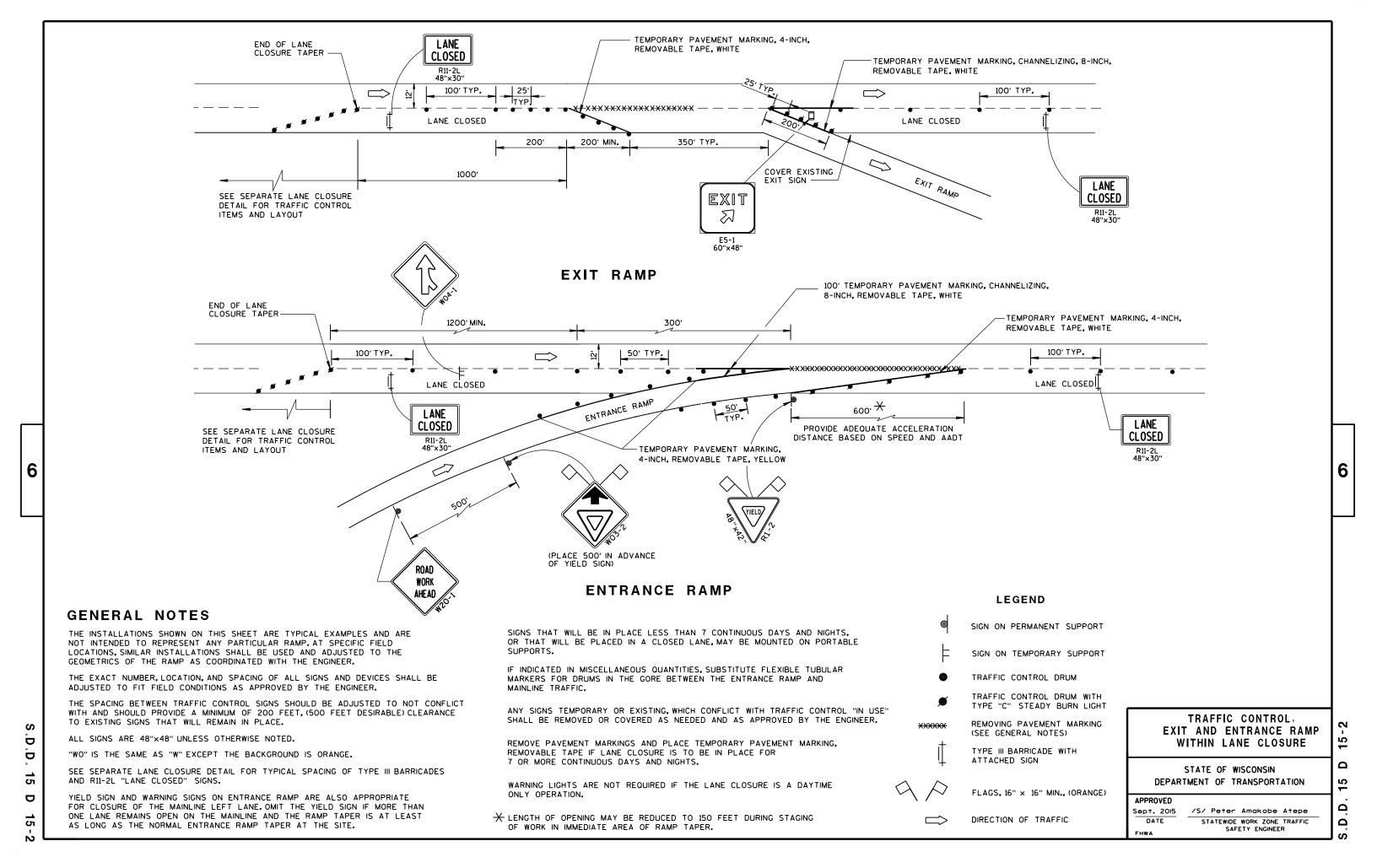
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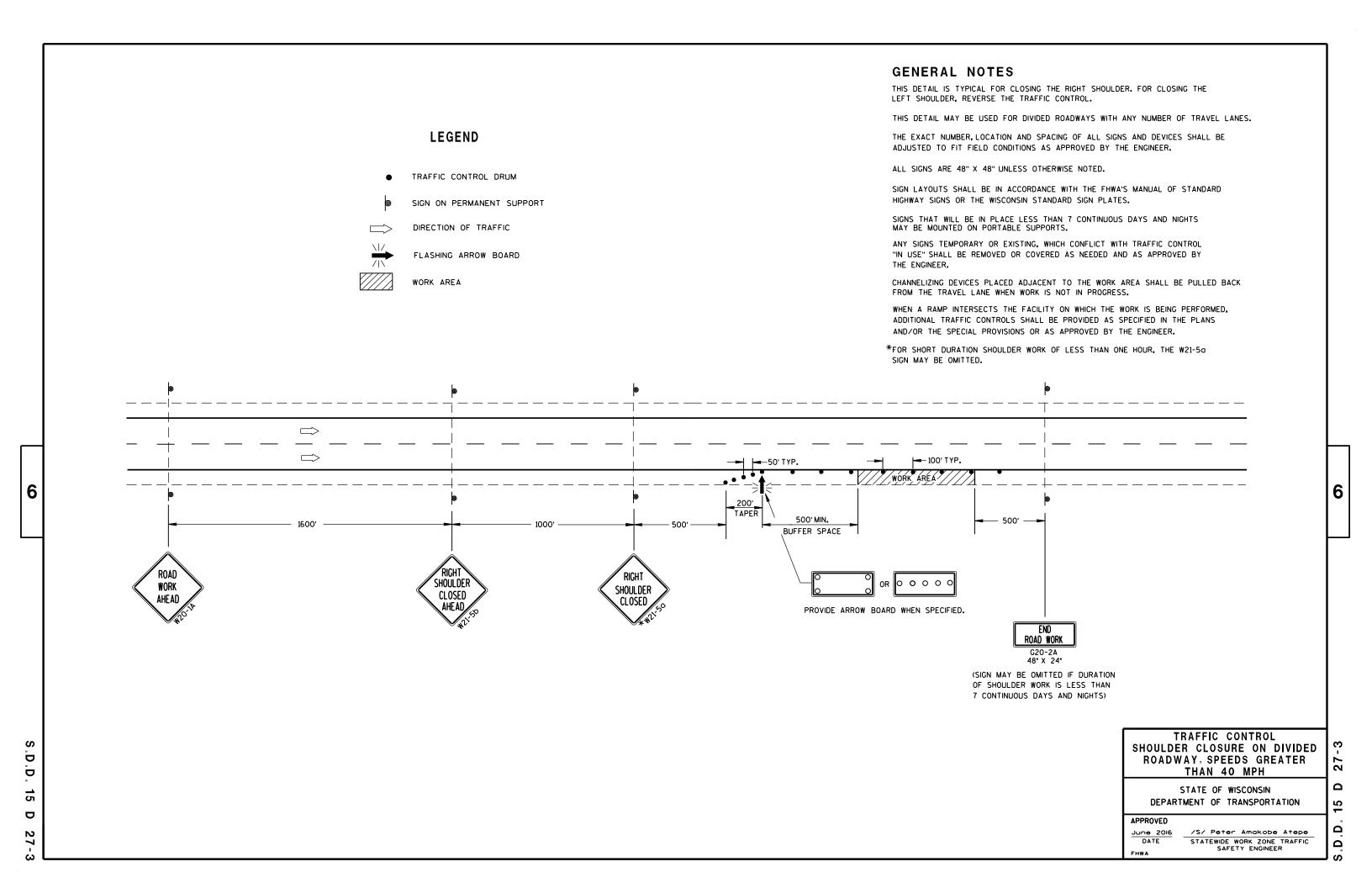
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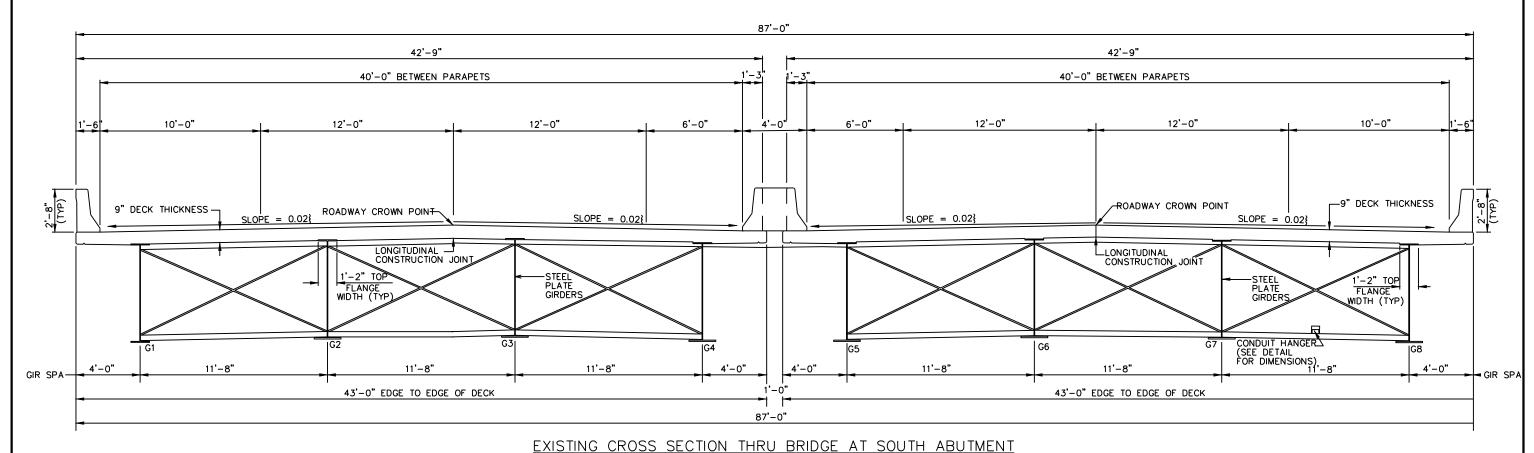




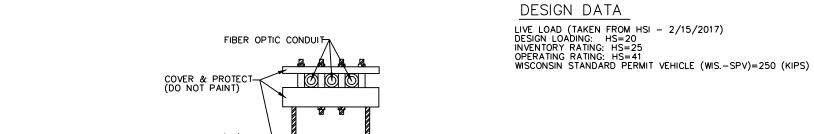




STATE PROJECT NUMBER 4685-24-60



### (LOOKING NORTH)



CONDUIT HANGER AND SUPPORT ASSEMBLY

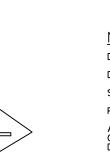
SOLVENT CLEAN ONLY

AND PAINT GALVANIZED HANGER PARTS DIRECTLY CONNECTED TO GIRDER FLANGE (TYP)

### TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEM	UNIT	TOTAL
517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE B-44-126	LS	1
517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-44-126	LS	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	1

FOR INFORMATION ONLY: APPROXIMATELY 237,033 SF OF STRUCTURAL STEEL



**NOTES** 

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING ORIGINAL STRUCTURE PLANS.

SEE HIGHWAY STRUCTURE INFORMATION SYSTEM FOR ADDITIONAL DETAIL. PAINT COLOR SHALL BE FEDERAL STANDARD COLOR NO. 20122 BROWN.

ALL EXPOSED STEEL SURFACES UNDERNEATH THE BRIDGE ARE TO BE CLEANED AND PAINTED. THE SURFACES INCLUDE GIRDERS, CROSS FRAMING, DIAPHRAGMS, STIFFENERS, BEARINGS AND CONNECTIONS.



LIST OF DRAWINGS

- CROSS SECTION, NOTES & QUANTITIES
- GENERAL PLAN SOUTH PORTION GENERAL PLAN NORTH PORTION
- STH 96 & CN RR CROSS SECTIONS

Plans Prepared By	, WI	S	D(	T	- 1	
ACCEPTED William C. K.				8/17 ATE	7	
STRUCTURE E	3-44	-12	26			
STH 441 OVER FOX RIVER						
COUNTY OU TAGAMIE	C	ITY	APPLE	TON		
DESIGN SPEC. REHABILITATION N/A						
DESIGNED DESIGN BY MAJ CK'D. EAD	DRAWN BY	JBS	PLANS CK'D.	PWB		
CROSS	`	SH	IEET 1	OF 4		
SECTION AND NOTES	J					

CONTACTS

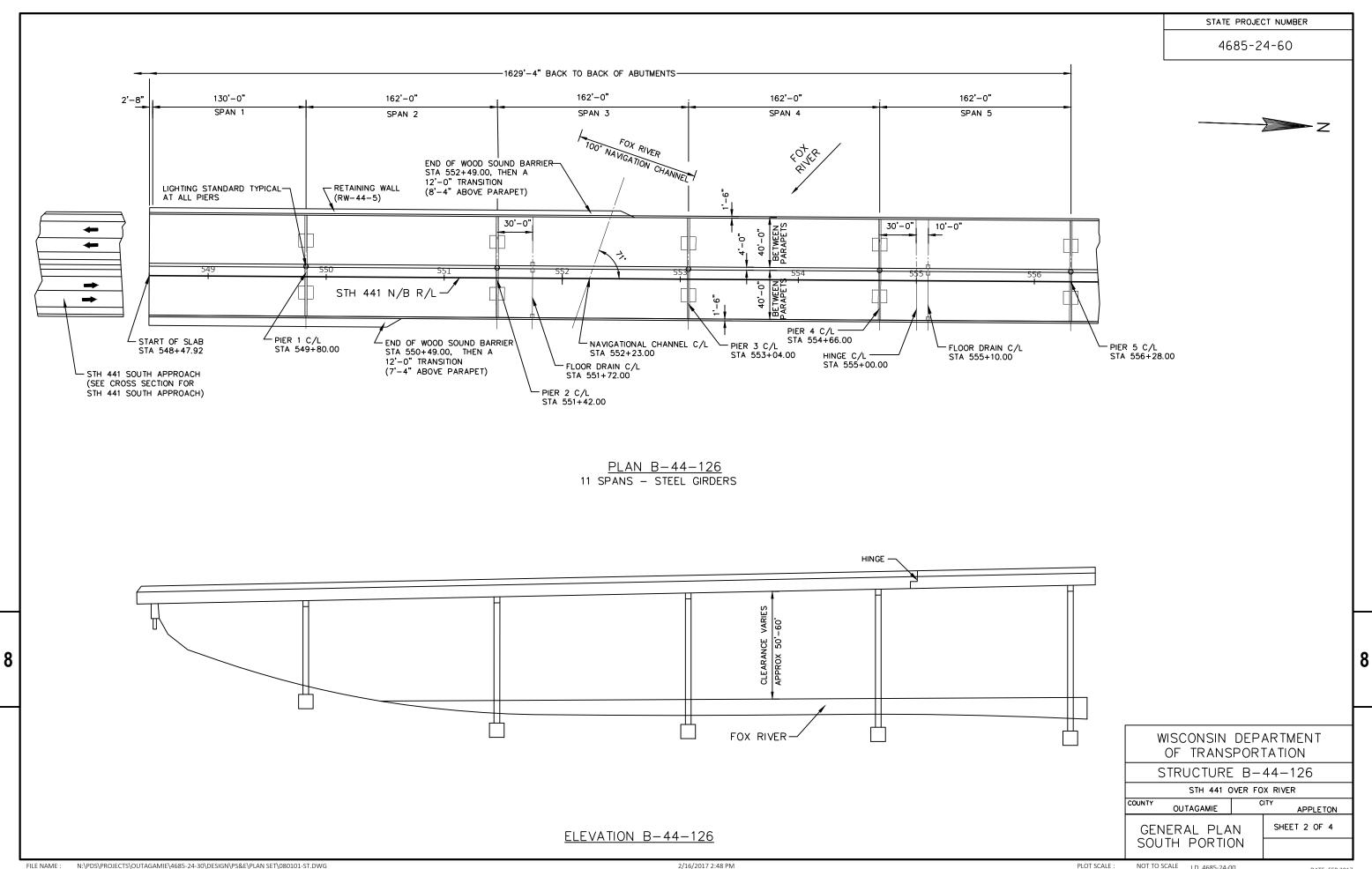
NE REGION PROJECT MANAGER PAUL BRAUER (920) 366-1097

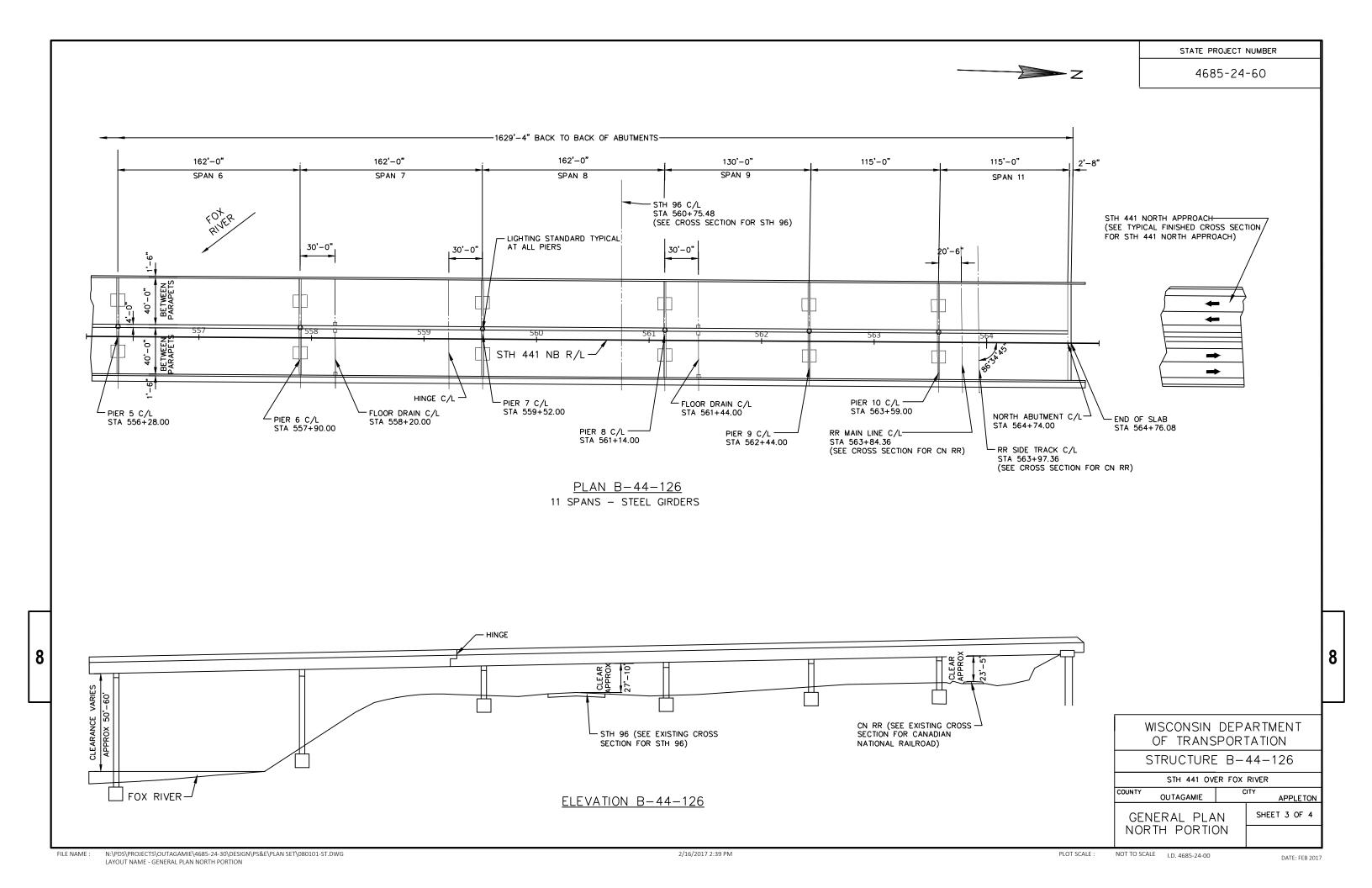
BUREAU OF STRUCTURES
WILLIAM DREHER (608) 266-8489

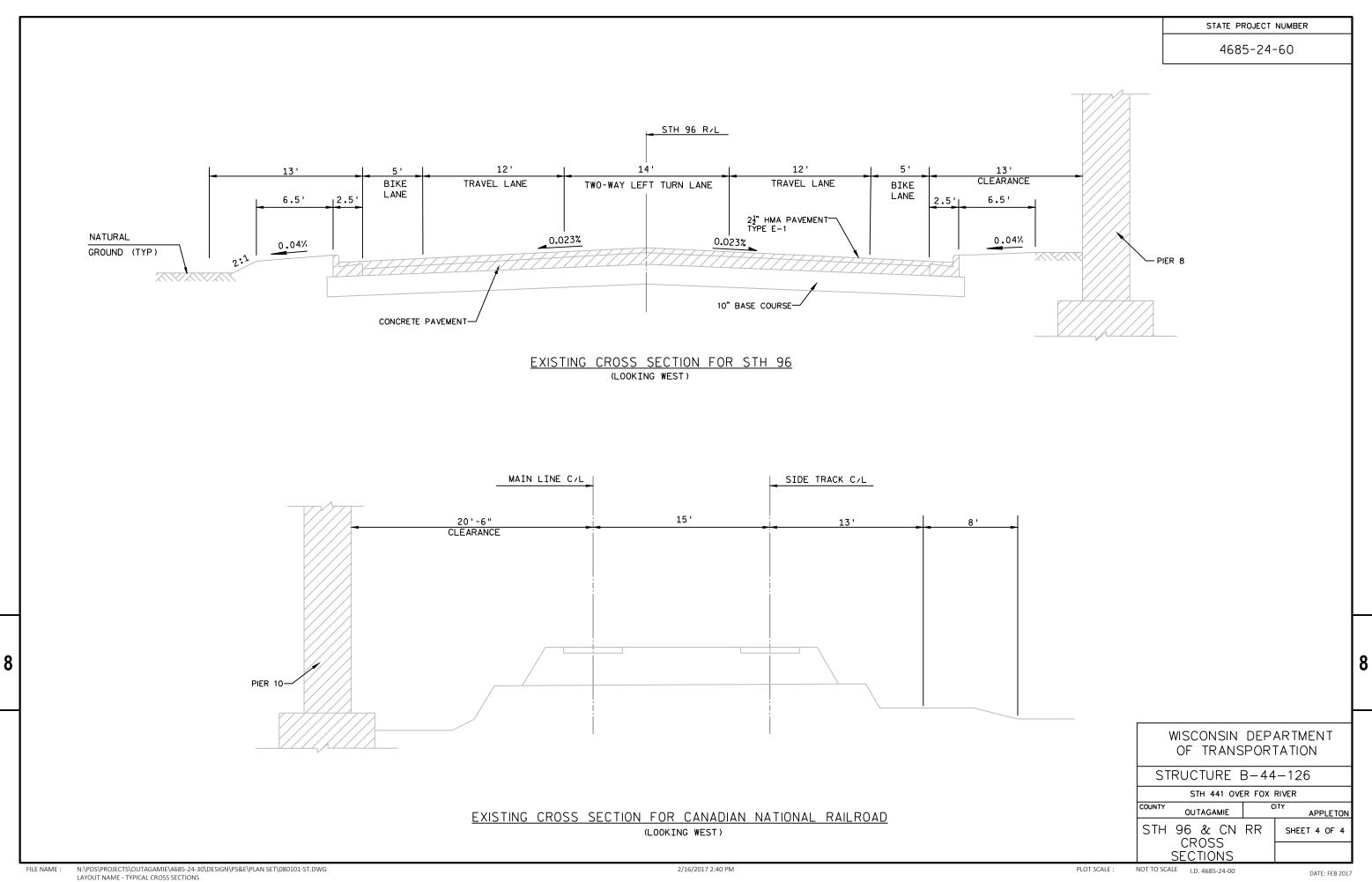
N:\PDS\PROJECTS\OUTAGAMIE\4685-24-30\DESIGN\PS&E\PLAN SET\080101-ST.DWG FILE NAME : LAYOUT NAME - CROSS SECTION & NOTES

STEEL PLATE GIRDER (TYP)

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# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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