

STATE PROJECT

PROJECT CONTRACT

3050-01-63

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor

Designer

Project Manager

Regional Supervisor JE

APPROVED FOR THE DEPARTMENT

David B Schmidt

Date: 2024 08.06 09:53:00-05:00

(Signature)

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FILE NAME : N:\PDS\C3D\30500133\SHEETS\010101\_TI.DWG PLOT DATE : 7/30/2024 10:04 AM PLOT

MARCHESE, MADISON N PLOT NAM

2

GENERAL NOTES

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

# UTILITIES CONTACTS

WE ENERGIES
ELECTRICITY
WE ENERGIES UTILITY COORDINATOR
500 S 116TH STREET
WEST AKKUS, WI 53214
PHONE: (414) 944-5738

EMAIL: We-Utility-relocations@we-energies.com

#### WISCONSIN DNR LIAISON

FILE NAME :

ERIC HEGGELUND SOUTH CENTRAL REGION HEADQUATERS 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711-5397 PHONE: 608-275-3301 EMAIL: ERIC.HEGGELUND@WISCONSIN.GOV

#### DESIGN PROJECT LEADER

DAVID SCHMIDT, P.E. WISDOT SW REGIOIN 2012 WRIGHT STREET MADISON, WI 53704 PHONE: 608-246-3867 EMAIL: DAVID2.SCHMIDT@DOT.WI.GOV



PROJECT NO: 3050-01-63 HWY: STH 19 COUNTY: DANE GENERAL NOTES SHEET **E** 

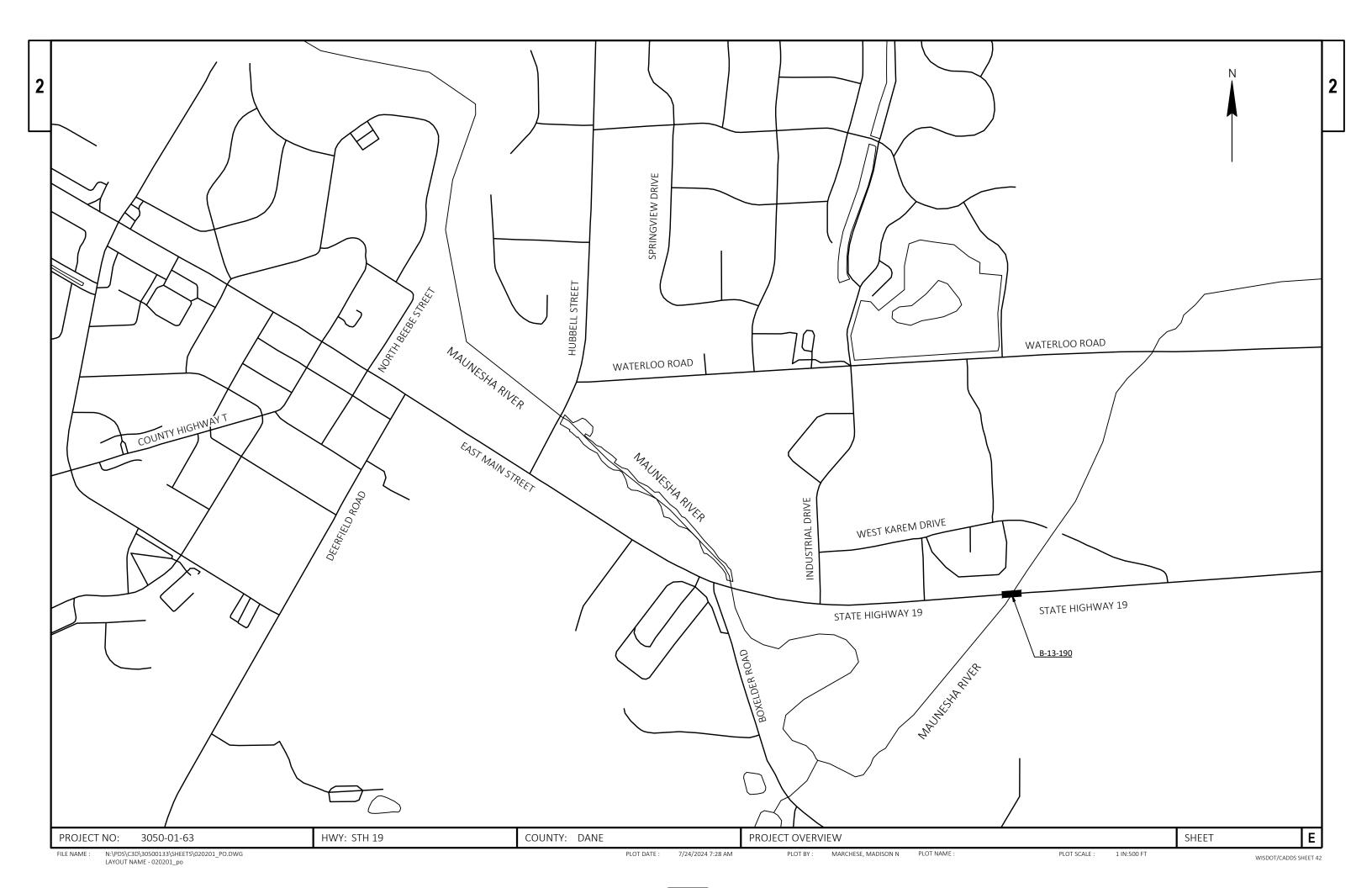
N:\PDS\C3D\30500133\SHEETS\020101\_GN.DWG

LAYOUT NAME - 020101

PLOT DATE: 7/24/2024 7:28 AM PLOT BY: MARCHESE, MADISON N PLOT NAME: 1" = 1'

WISDOT/CADDS SHEET 42

WISDOT/CADDS SHEET 42



3050-01-63	

Line	Item	Item Description	Unit	Total	Qty
0002	203.0220	Removing Structure (structure) 01. B-13-190	EACH	1.000	1.000
0004	213.0100	Finishing Roadway (project) 01. 3050-01-63	EACH	1.000	1.000
0006	502.0100	Concrete Masonry Bridges	CY	5.300	5.300
8000	502.3200	Protective Surface Treatment	SY	28.000	28.000
0010	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	1,400.000	1,400.000
0012	513.4051	Railing Tubular Type F	LF	65.000	65.000
0014	603.8000	Concrete Barrier Temporary Precast Delivered	LF	550.000	550.000
0016	603.8125	Concrete Barrier Temporary Precast Installed	LF	550.000	550.000
0018	614.0905	Crash Cushions Temporary	EACH	2.000	2.000
0020	618.0100	Maintenance and Repair of Haul Roads (project) 01. 3050-01-63	EACH	1.000	1.000
0022	619.1000	Mobilization	EACH	1.000	1.000
0024	643.0300	Traffic Control Drums	DAY	288.000	288.000
0026	643.0420	Traffic Control Barricades Type III	DAY	16.000	16.000
0028	643.0715	Traffic Control Warning Lights Type C	DAY	160.000	160.000
0030	643.0900	Traffic Control Signs	DAY	320.000	320.000
0032	643.1050	Traffic Control Signs PCMS	DAY	32.000	32.000
0034	643.3180	Temporary Marking Line Removable Tape 6-Inch	LF	4,100.000	4,100.000
0036	643.3850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	24.000	24.000
0038	643.5000	Traffic Control	EACH	1.000	1.000
0040	646.2020	Marking Line Epoxy 6-Inch	LF	612.000	612.000
0042	646.9000	Marking Removal Line 4-Inch	LF	572.000	572.000
0044	661.0101	Temporary Traffic Signals for Bridges (structure) 01. B-13-190	EACH	1.000	1.000
0046	715.0502	Incentive Strength Concrete Structures	DOL	500.000	500.000

GENERAL

CATEGORY	LOCATION	619.1000 MOBILIZATION EACH	643.5000 TRAFFIC CONTROL EACH	REMARKS
CATEGORI	LOCATION	LACIT	LACIT	REMARKS
0010	PROJECT	1	1	
	TOTAL 0010	1	1	

#### REMOVING PAVEMENT MARKING

#### TEMPORARY PAVEMENT MARKING

		643.3180 TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)	643.3850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH	
CATEGORY	LOCATION	LF		LF	REMARKS
0010	STH 19	1,400	-	12	WEST END OF STRUCTURE
0010	B-13-190	-	1,300	-	ON STRUCTURE
0010	STH 19	1,400	-	12	EAST END OF STRUCTURE
	TOTAL 0010	4,100		24	

PROJECT NO: 3050-01-63 HWY: STH 019 COUNTY: Dane MISCELLANEOUS QUANTITIES SHEET: **E** 

#### | 4

#### TRAFFIC CONTROL

		603.8000	603.8125	643.0300	643.0420	643.0715	643.0900	643.1050	661.0101.01	
		CONCRETE	CONCRETE						TEMPORARY	
		BARRIER	BARRIER						TRAFFIC SIGNALS	
		TEMPORARY	TEMPORARY		TRAFFIC CONTROL	TRAFFIC CONTROL			FOR BRIDGES	
		PRECAST	PRECAST	TRAFFIC CONTROL	BARRICADES TYPE	WARNING LIGHTS	TRAFFIC CONTROL	TRAFFIC CONTROL	(STRUCTURE) (01.	
		DELIVERED	INSTALLED	DRUMS	III	TYPE C	SIGNS	SIGNS PCMS	B-13-190)	
CATEGORY	LOCATION	LF	LF	DAY	DAY	DAY	DAY	DAY	EACH	REMARKS
0010	PROJECT	550	550	288	16	160	320	32	1	PROJECT DURATION IS 16 DAYS
				_						
	TOTAL 0010	550	550	288	16	160	320	32	1	

#### TEMPORARY CRASH CUSHIONS

_ CATEGORY	LOCATION	614.0905 CRASH CUSHIONS TEMPORARY EACH	BACK WIDTH	OBJECT MARKING PATTERN	CRASH TEST LEVEL	TRAFFIC DIRECTION	TRAFFIC LOCATION	CRASH CUSHION SHIELDS	REMARKS
0010	STH 19	2	4	OM-3R (W05-59R)	TL-3	BIDIRECTIONAL	L and R	Temporary crash cushion in work zone	
	TOTAL 0010	2							

#### PAVEMENT MARKING

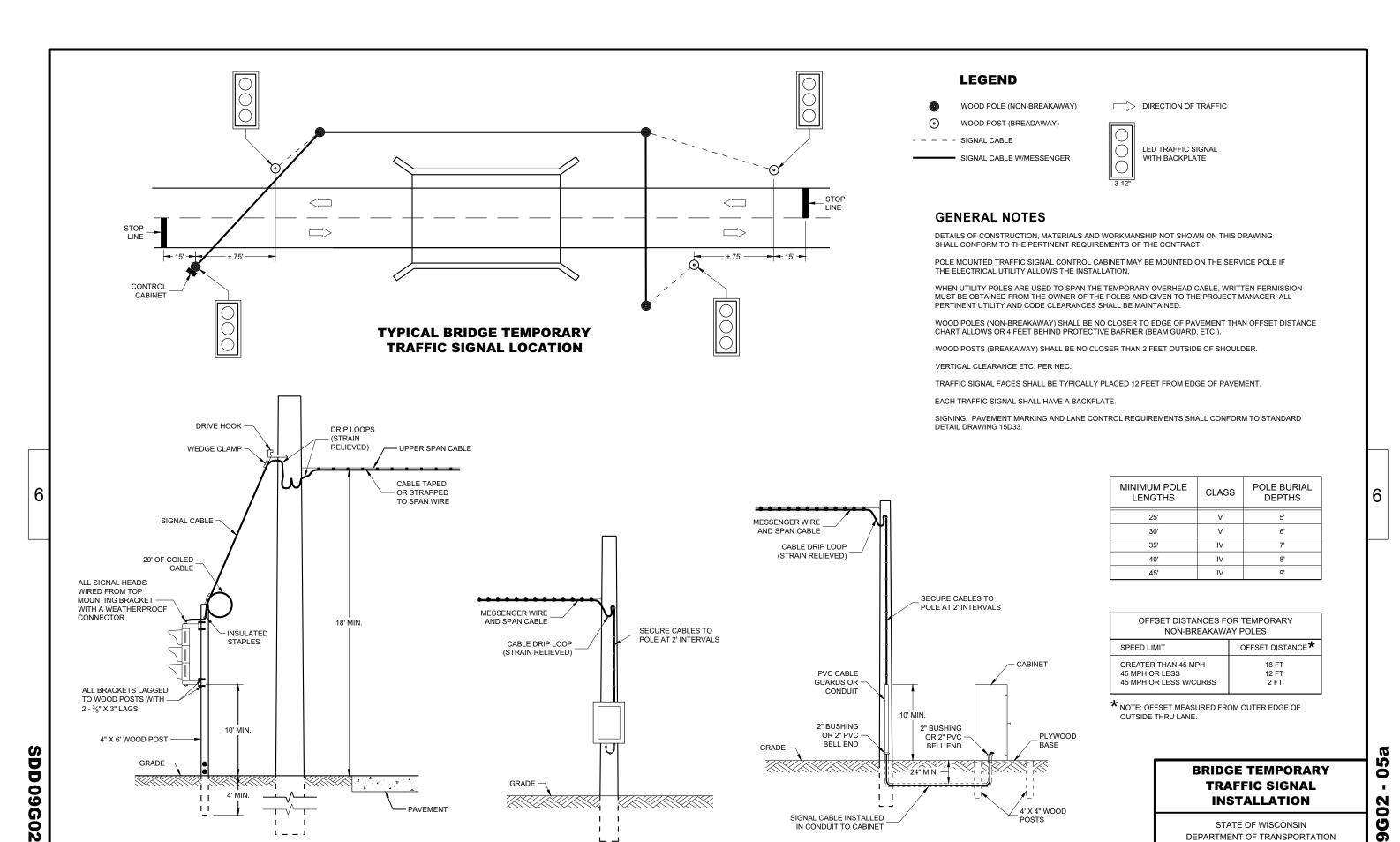
		213.0100.01 FINISHING	646.	2020	
		ROADWAY (PROJECT) (01. 3050-01-63)	MARKING LINE EPOXY 6-INCH (WHITE)	MARKING LINE EPOXY 6-INCH (YELLOW)	
CATEGORY	LOCATION	EACH	LF	. , ,	REMARKS
0010 0010	STH 19 B-13-190	1	- 40	572 -	CENTERLINE YELLOW SKIPS REPAIR ON STRCUTURE
	TOTAL 0010	1	612		

PROJECT NO: 3050-01-63 HWY: STH 019 COUNTY: Dane MISCELLANEOUS QUANTITIES SHEET: **E** 

FILE NAME : N:\PDS\...\030200\_mq.pptx PLOT BY : A.R.H. PLOT NAME : PLOT NAME : PLOT SCALE : 1:1

## Standard Detail Drawing List

00-02 05:	
09G02-05A	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-05B	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-05C	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
14B07-16A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14в07-16в	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16J	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16K	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16L	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16M	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16N	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
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-23C	PAVEMENT MARKING (TURN LANES)
15C08-23D	PAVEMENT MARKING (TURN LANES)
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D33-09	TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS



**POLE MOUNT** 

**CABINET INSTALLATION** 

GRADE

- PAVEMENT

4' MIN.

**TYPICAL DROP TO** 

TRAFFIC SIGNAL FACE

0

60

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED March 2018

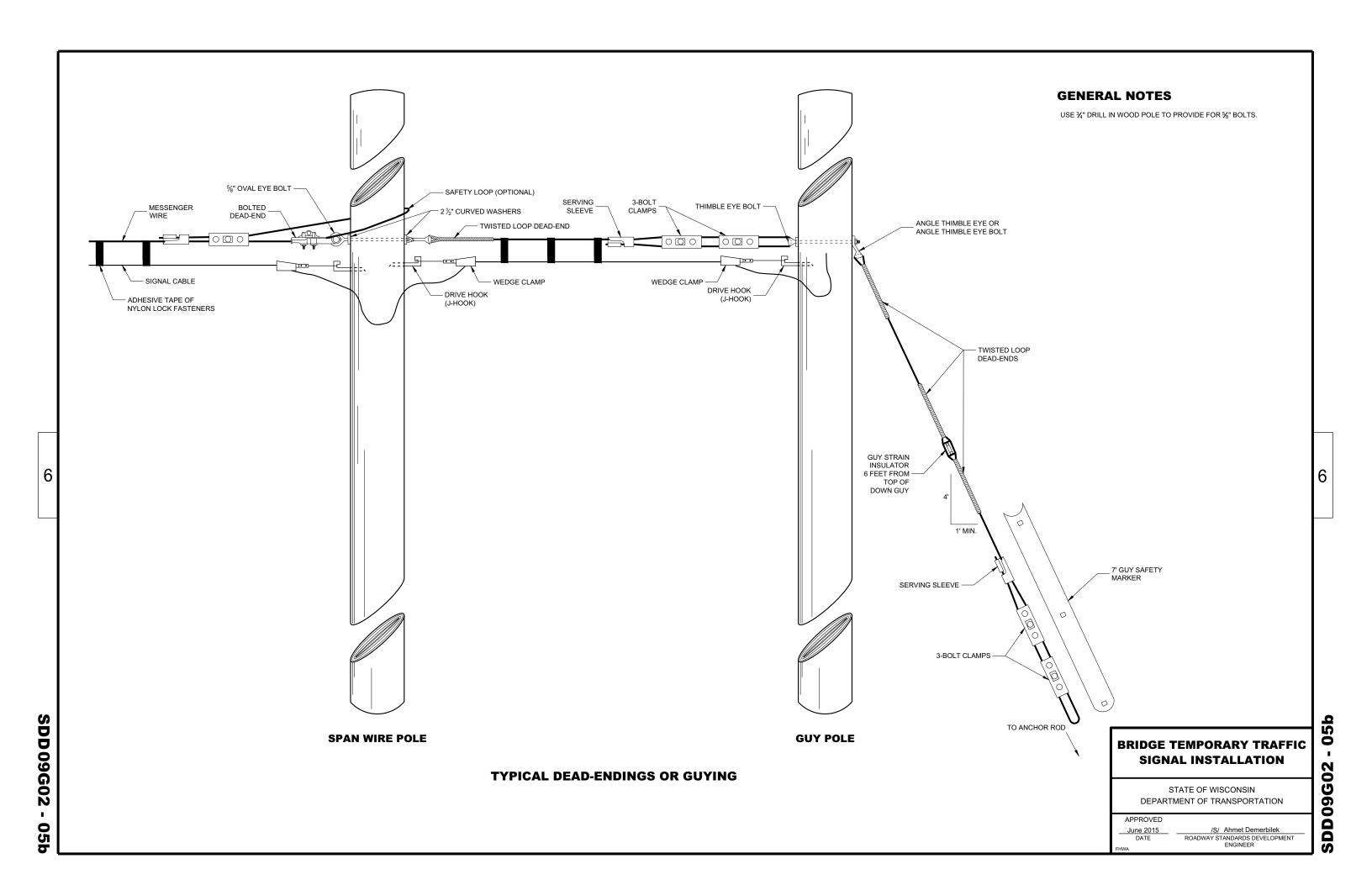
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

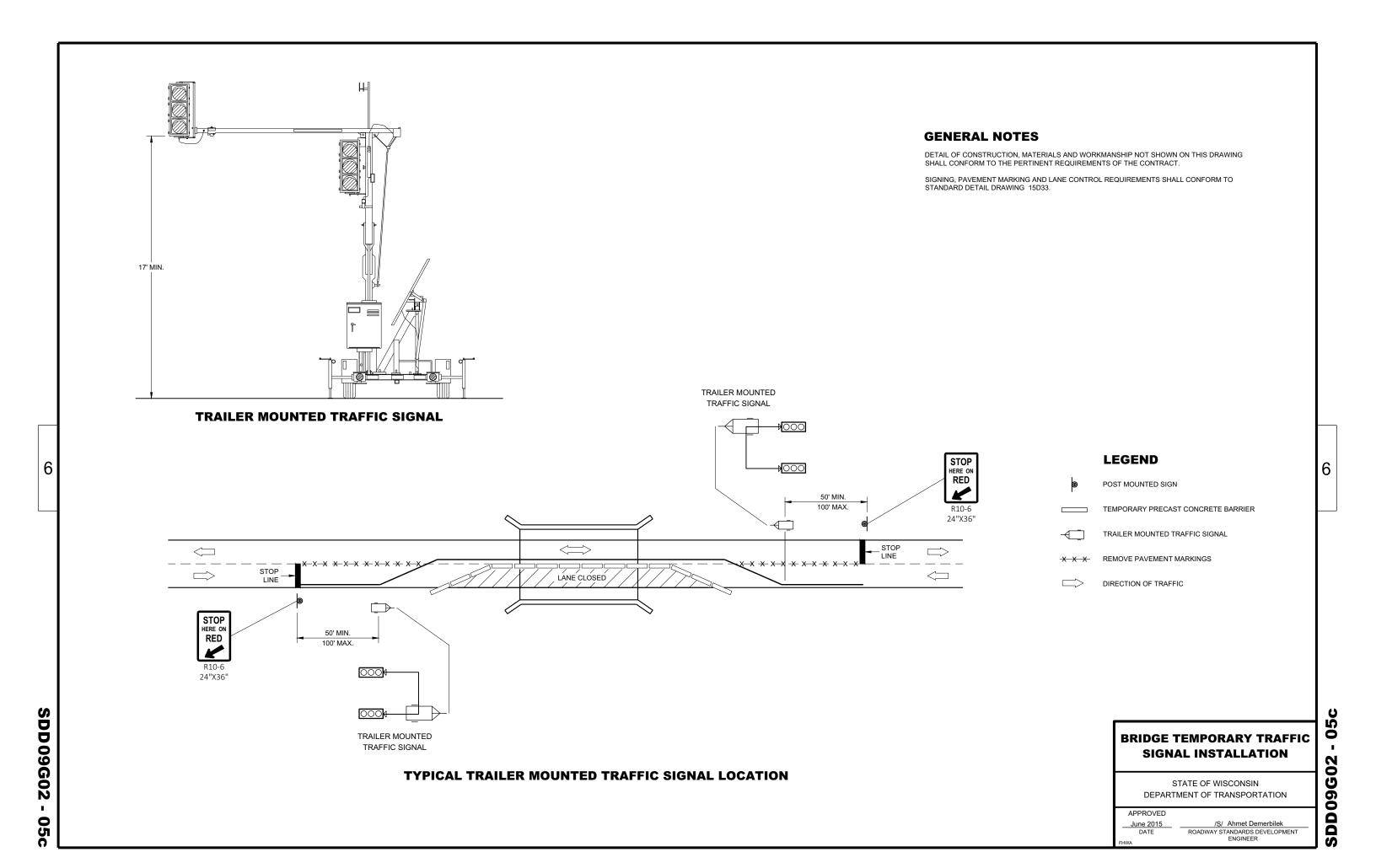
**GROUND MOUNT CABINET INSTALLATION** 

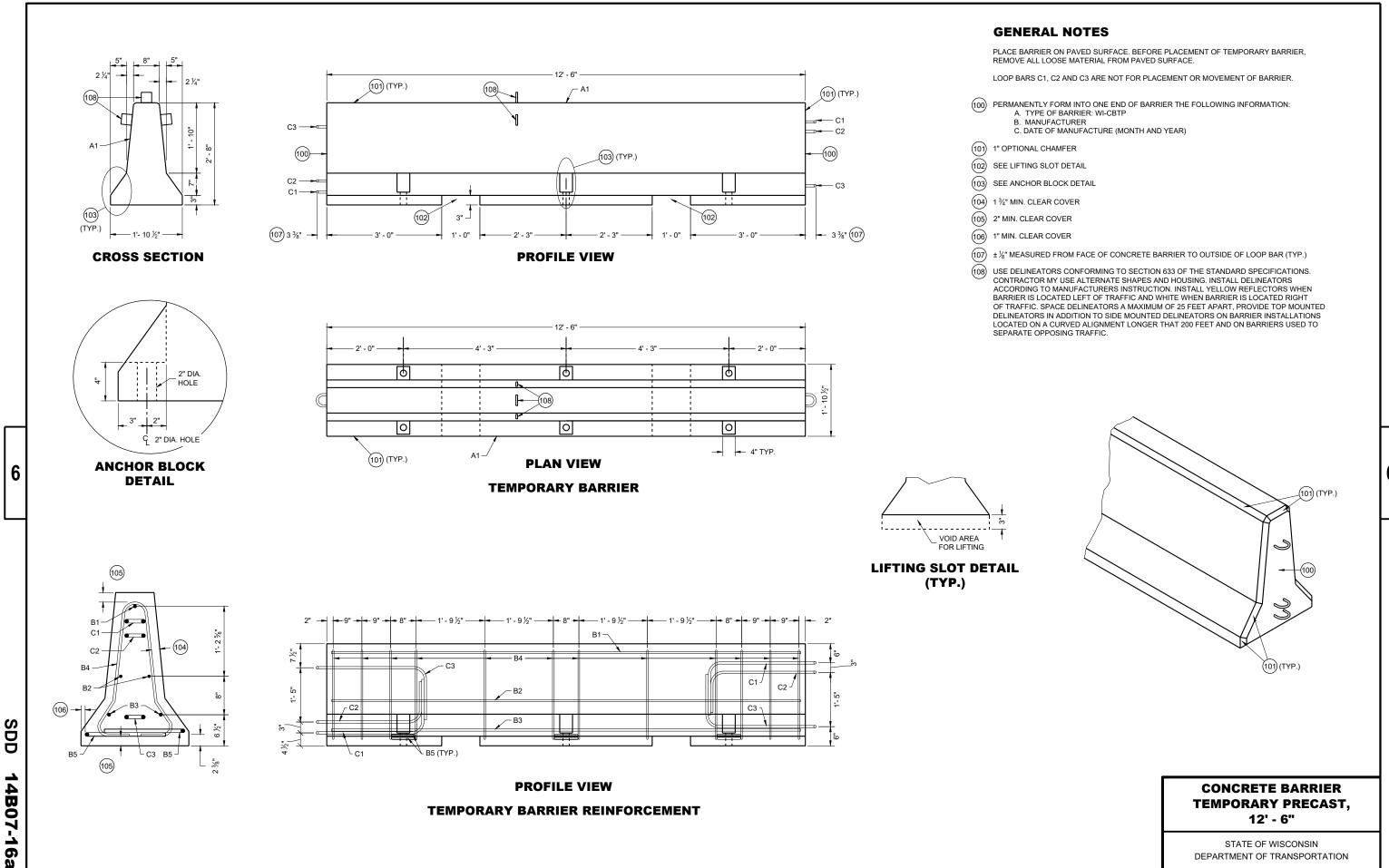
SIGNAL CABLE INSTALLED IN CONDUIT TO CABINET

24" MIN.

4' X 4" WOOD

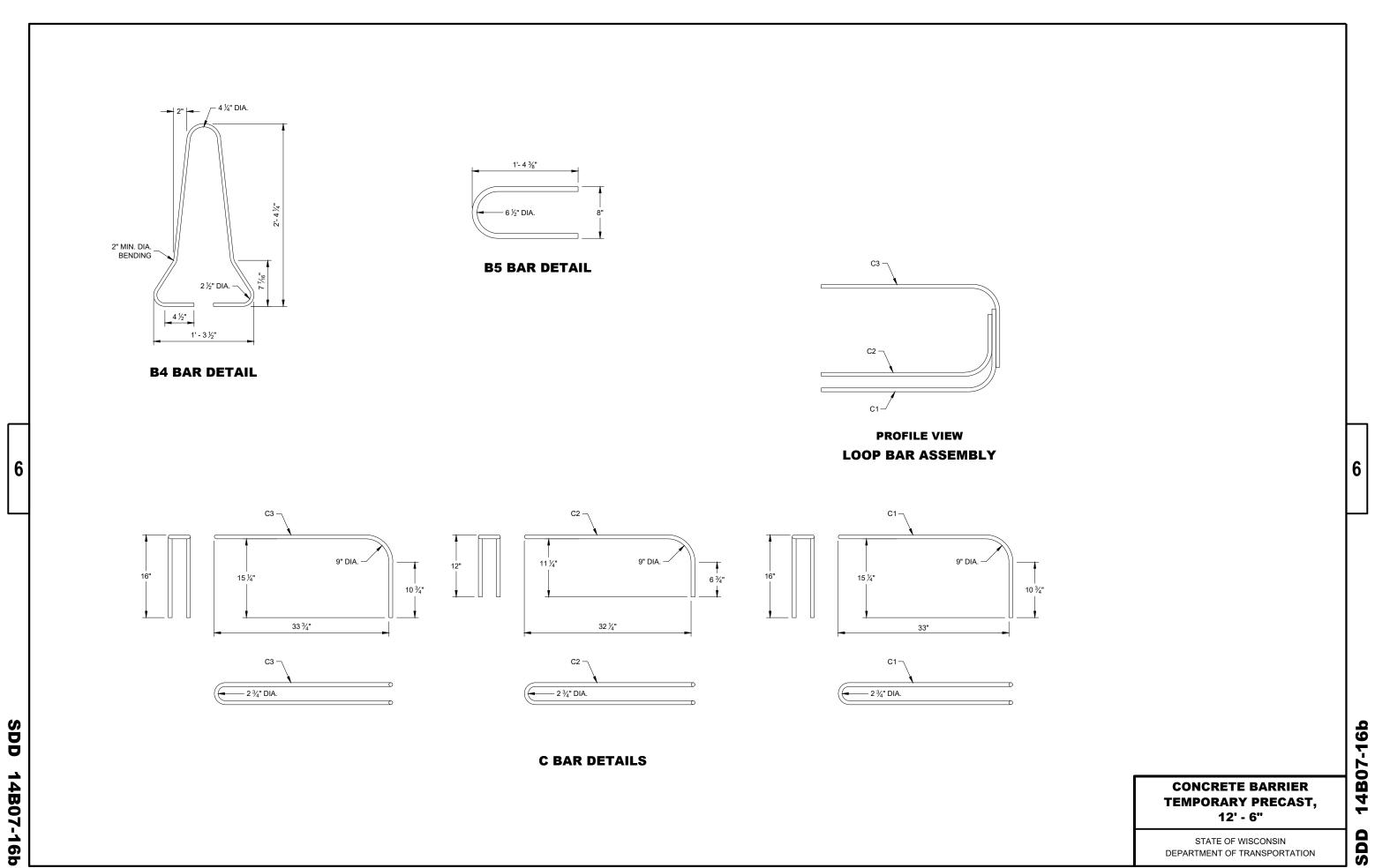




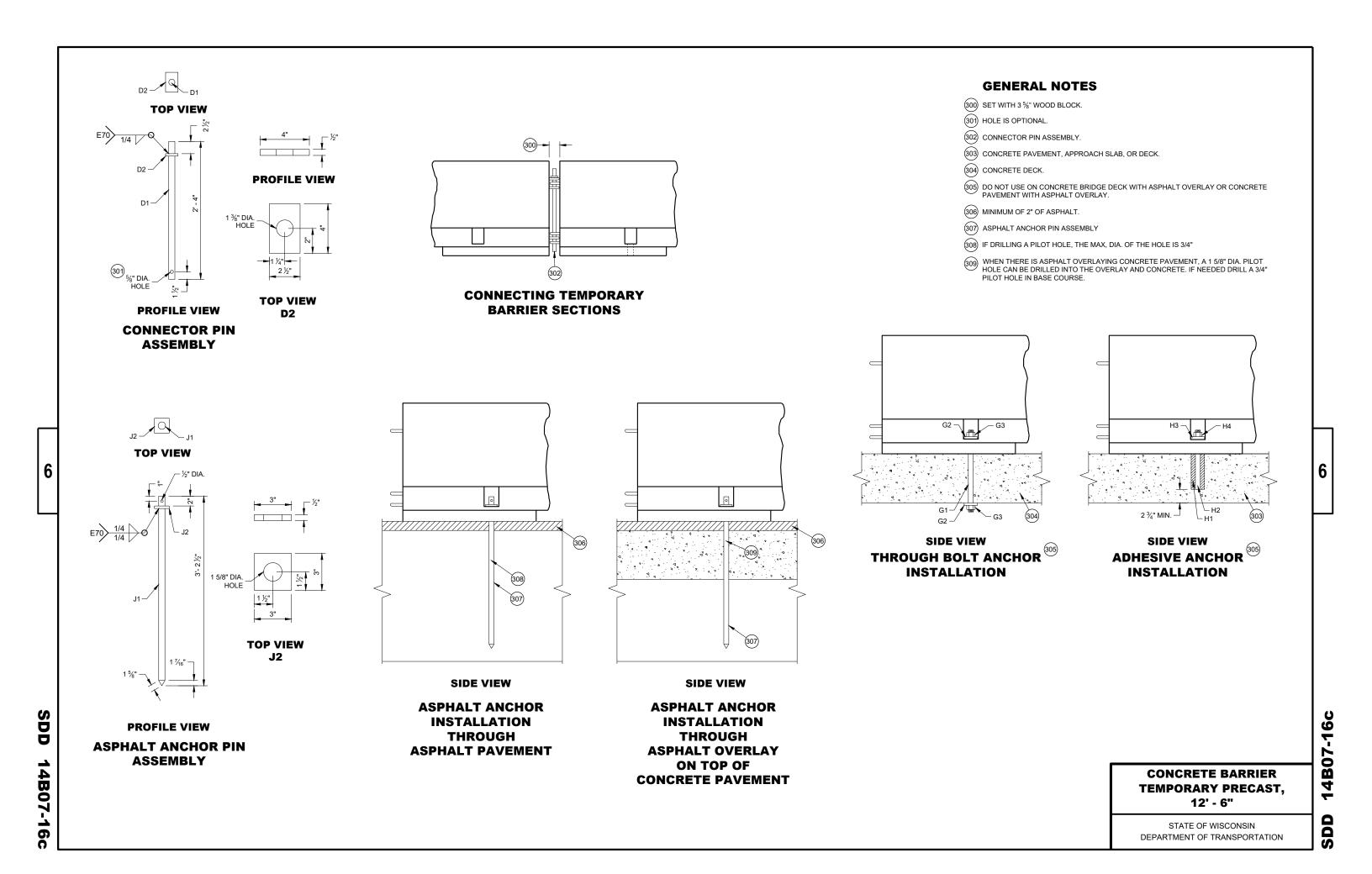


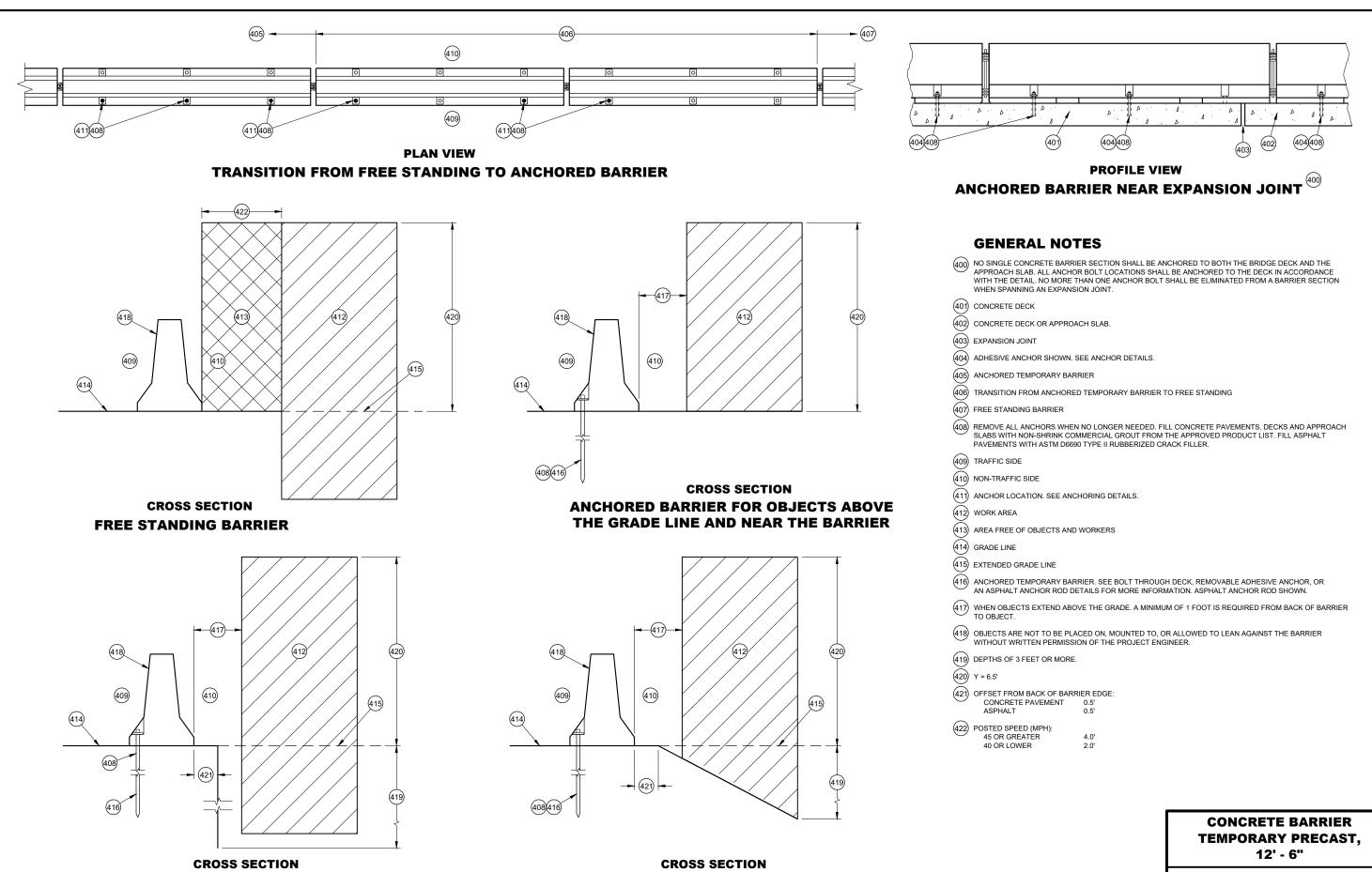
14B07-16a

SD



DEPARTMENT OF TRANSPORTATION





**ANCHORED BARRIER NEAR A SLOPE** 

SDD

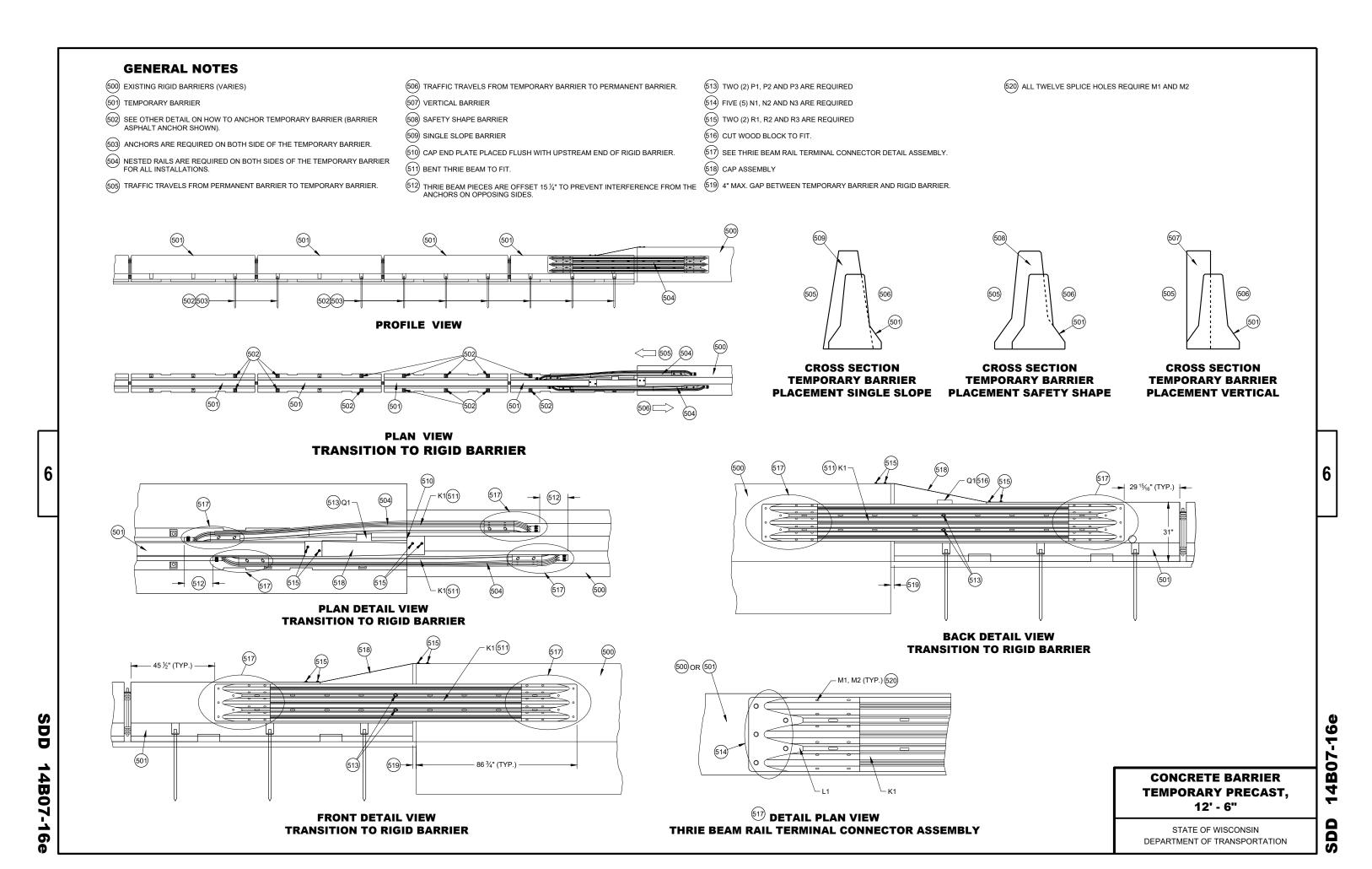
14B07-16d

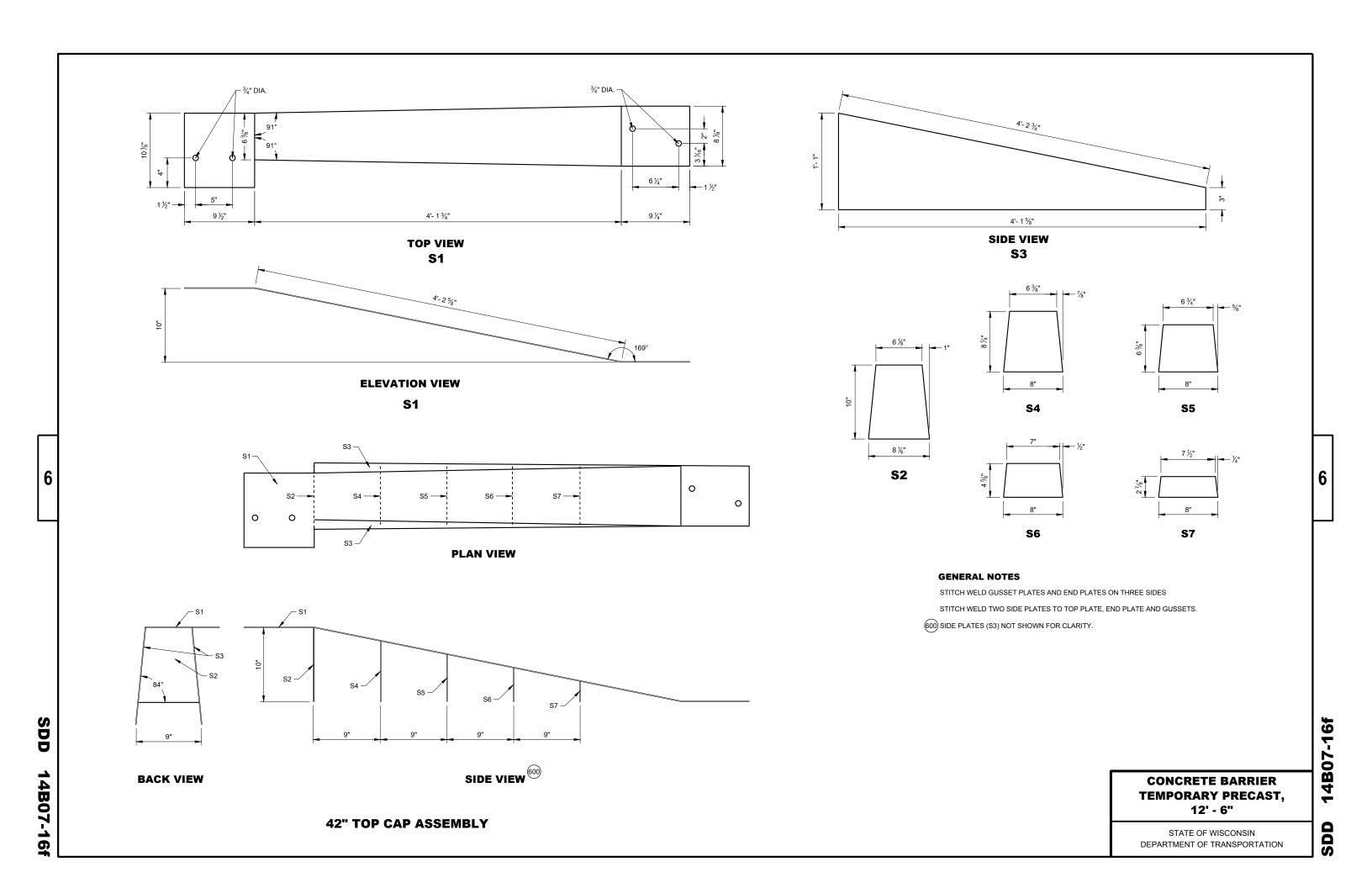
**ANCHORED BARRIER NEAR VERTICAL DROP OFF** 

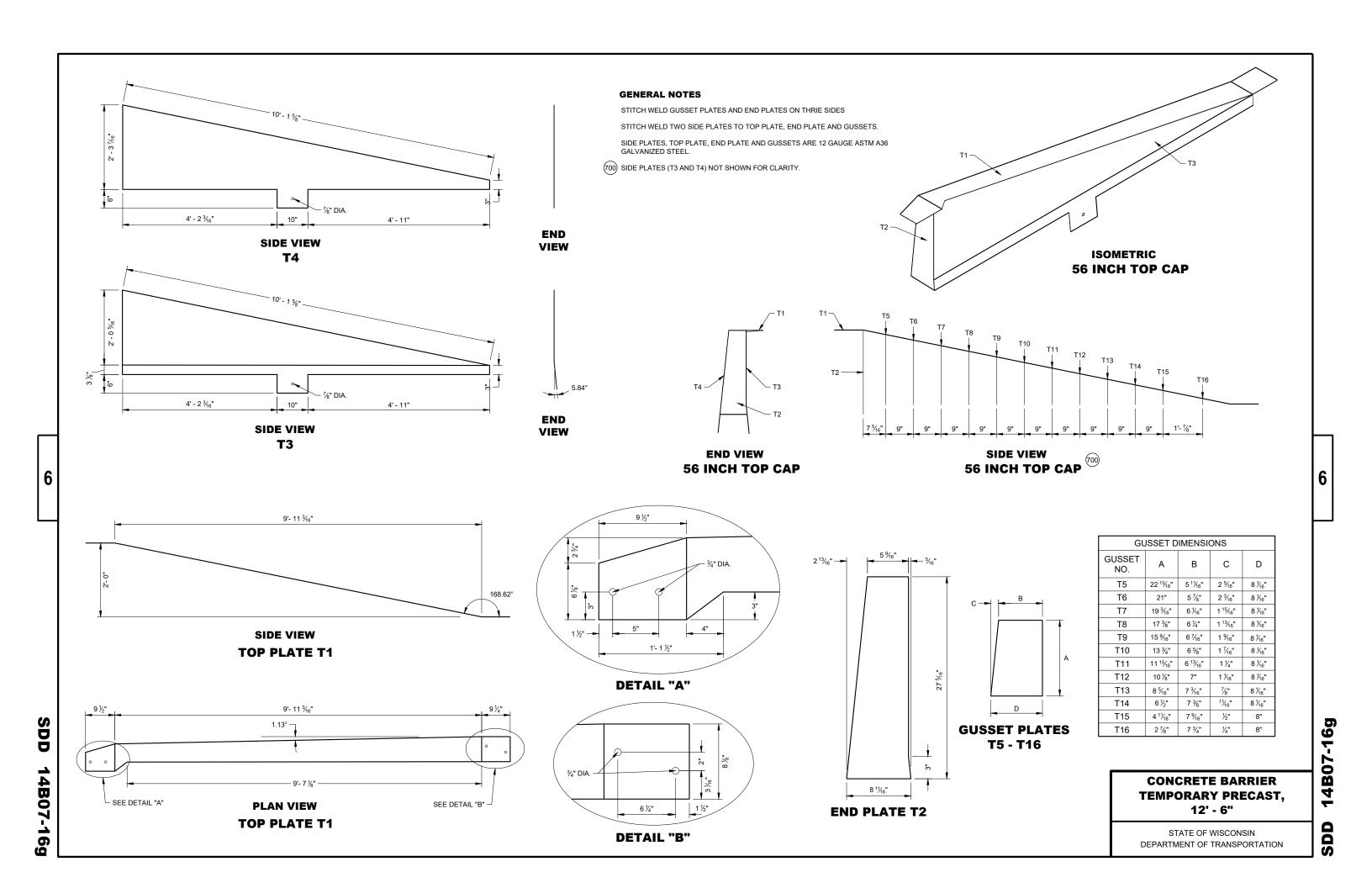
4B07-464

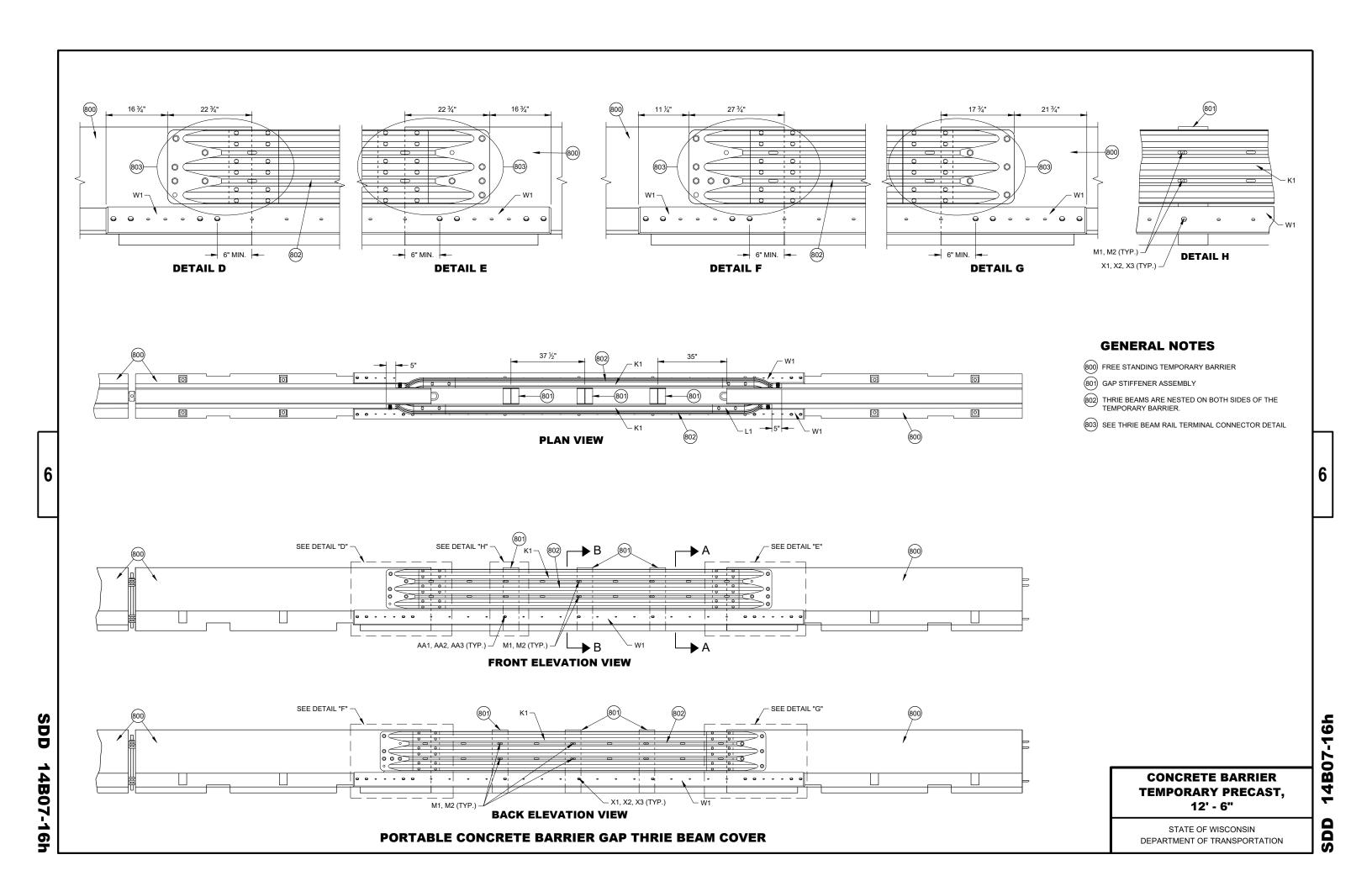
DD 14B

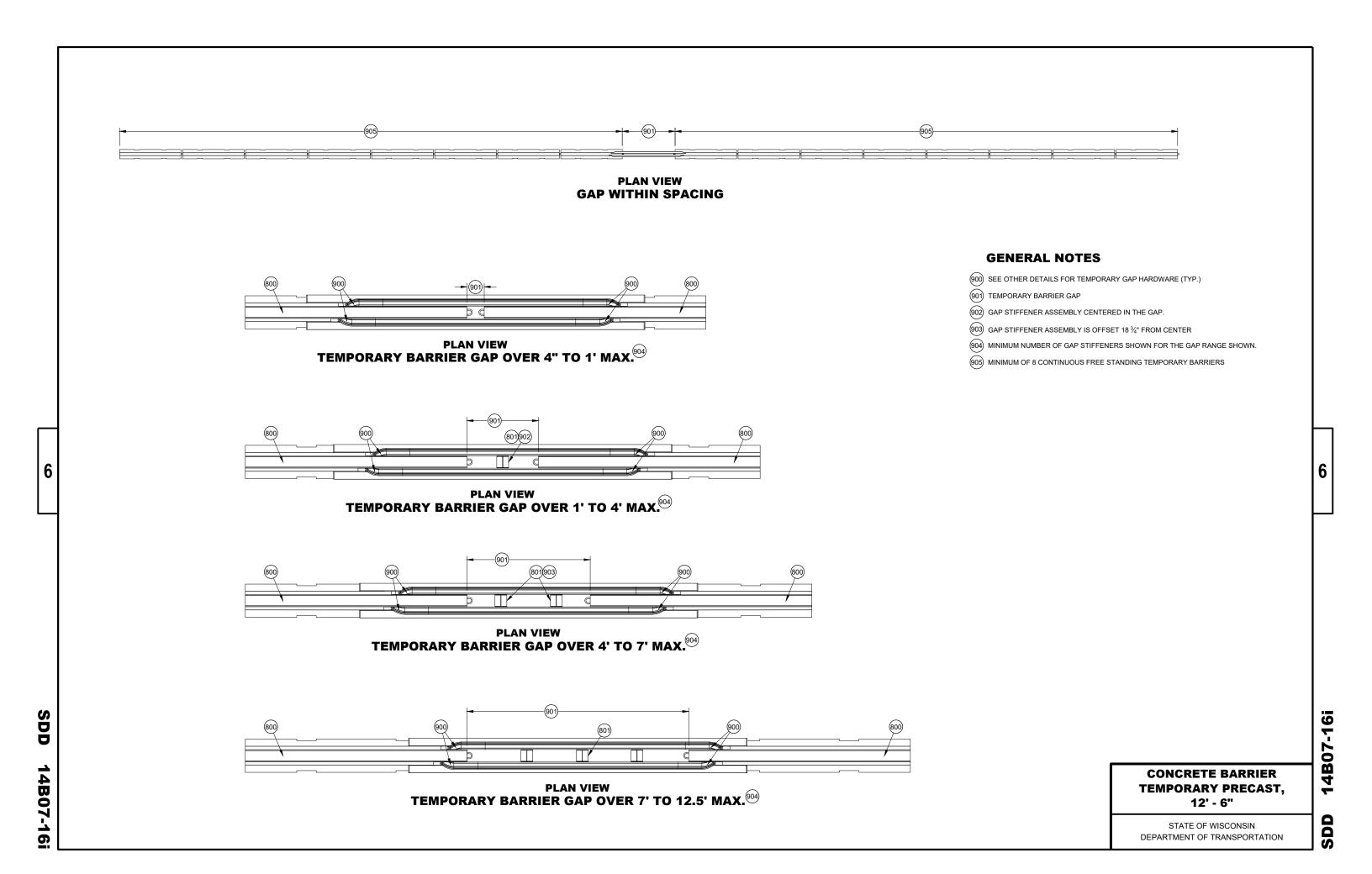
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

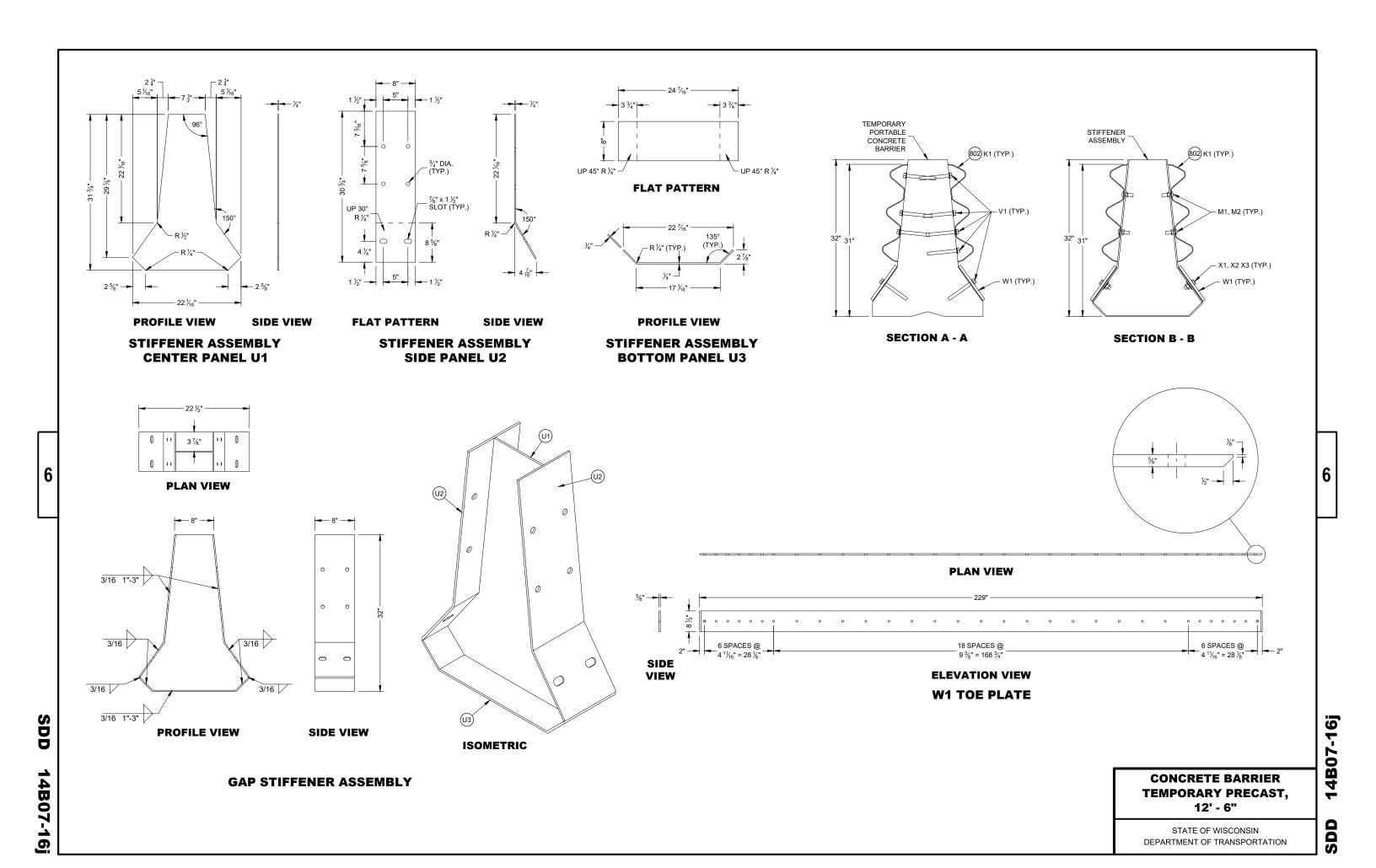










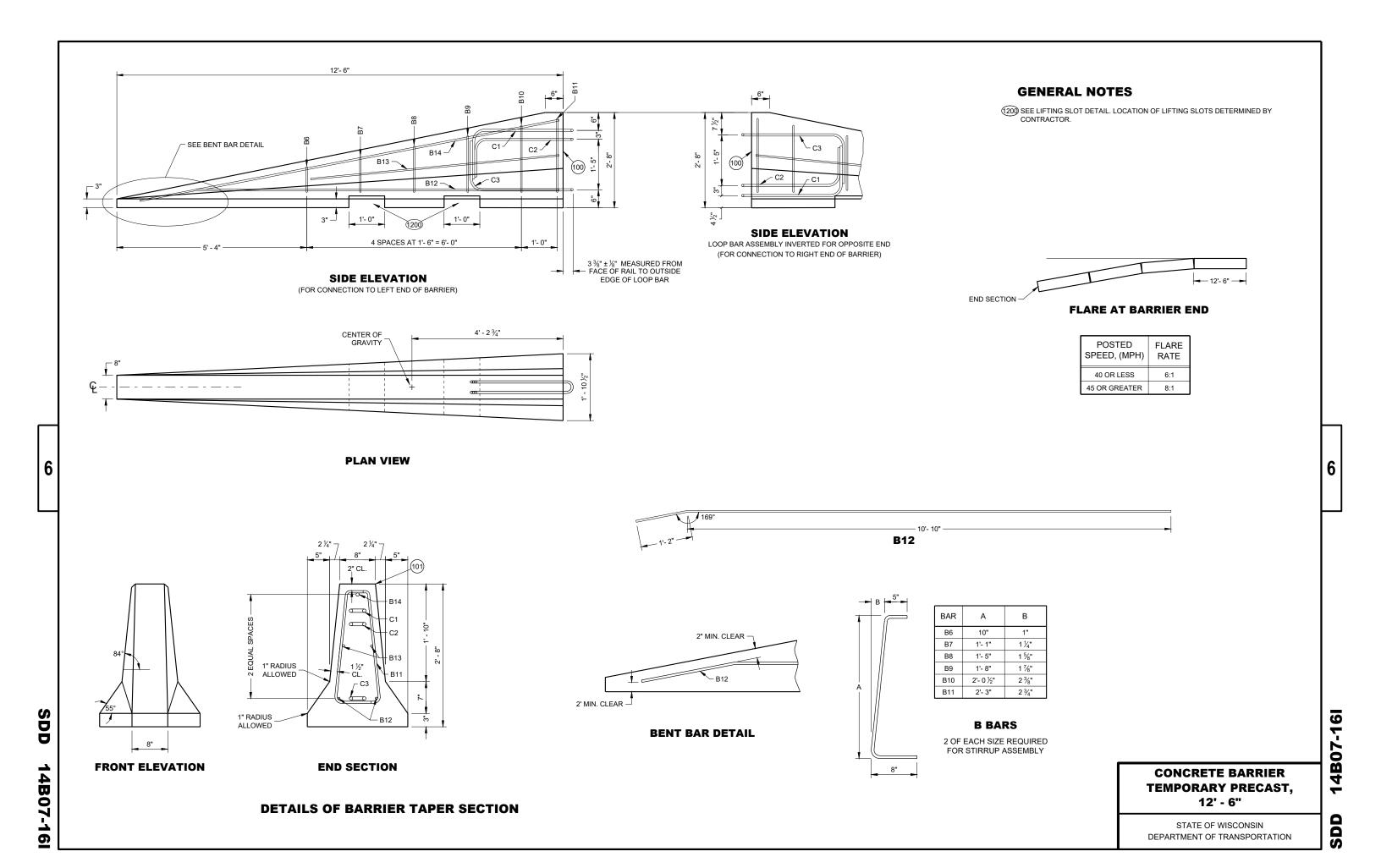


BEAM K1

14B07-16k SDD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

12' - 6"



PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
M1	SPLICE BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 UNC AASHTO M180 HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	5∕8" DIA.
M2	SPLICE BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
N1	THRIE BEAM RAIL TERMINAL - MECHANICAL ANCHOR	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	¾" DIA. LENGTH 6"
N2	THRIE BEAM RAIL TERMINAL - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 F436 TYPE 1	
N3	THRIE BEAM RAIL TERMINAL MECHANICAL OR ADHESIVE ANCHOR	MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	
P1	THRIE BEAM RAIL CONNECTION 1-BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	³¼" DIA.
P2	THRIE BEAM RAIL CONNECTION 1-WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 F436 TYPE 1	
P3	THRIE BEAM RAIL CONNETION 1- MECHANICAL OR ADHESIVE ANCHOR	MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	
Q1	BLOCK WOOD	SEE STANDARD SPEC. 614	
R1	CAP - BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	<sup>5</sup> ∕8" DIA.
R2	CAP- BOLT - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 F436 TYPE 1	
R3	CAP - BOLT - MECHANICAL ANCHOR	MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	12 GAUGE
S1	CAP 42-INCH TOP PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S2	CAP 42-INCH END PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S3	CAP 42-INCH SIDE PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S4	CAP 42-INCH GUSSET 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S5	CAP 42-INCH GUSSET 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S6	CAP 42-INCH GUSSET 3	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S7	CAP 42-INCH GUSSET 4	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 4B07-16m

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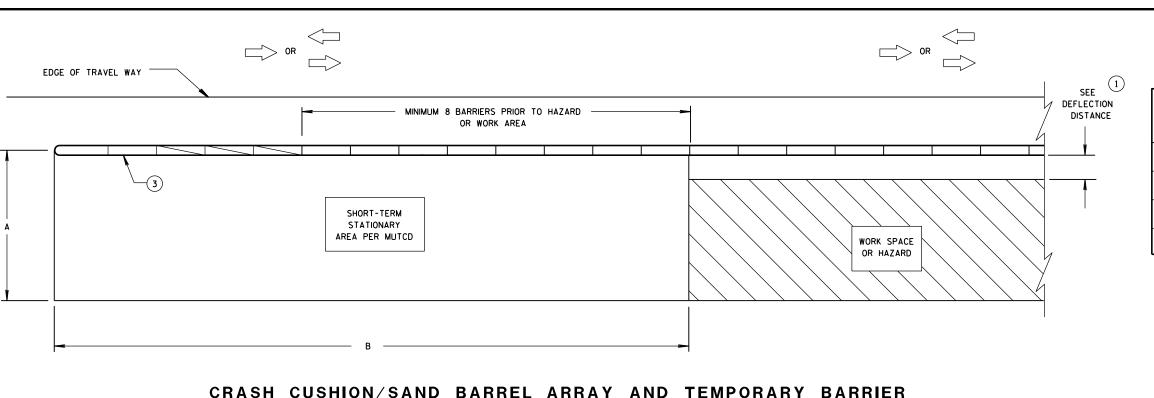
PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
V1	THRIE BEAM RAIL TERMINAL MECHANICAL OR ADHESIVE ANCHOR	MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS ULTIMATE TENSILE LOAD 24.0 KIPS AND ULTIMATE SHEAR LOAD 21.5 KIPS. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	¾" DIA.
V2	GAP STIFFENER - BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C O R MECHANICAL GALVANIZE TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
W1	TOE PLATE	AASHTO M111/ASTM A123 ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	
X1	TOE PLATE - CONNECTION BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 UNC HEAVY HEX HEAD OR AASTHO M180 HEAD, ASTM F3125 GRADE A325 TYPE 1 HEAVY HEX HEAD OR SAE J429 GRADE 5 HEAVY HEX HEAD / ASTM A449 TYPE 1 HEAVY HEX HEAD. BOLTS MAY BE FULLY THREADED. PROVIDE ENOUGH THREADING FOR PROPER TIGHTENING OF BOLT.	¾" DIA.
X2	TOE PLATE - CONNECTION BOLT - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 F436 TYPE 1 (HARDEN WASHER ONLY)	
Х3	TOE PLATE - CONNECTION BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	

#### **CONCRETE BARRIER TEMPORARY PRECAST.** 12' - 6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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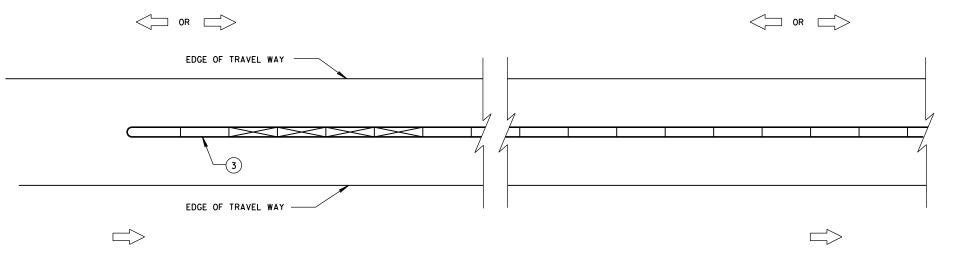
# DIMENSION A TABLE (2)

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

# INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER



#### CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF 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

DEPARTMENT OF TRANSPORTATION

6

**LEGEND** 

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

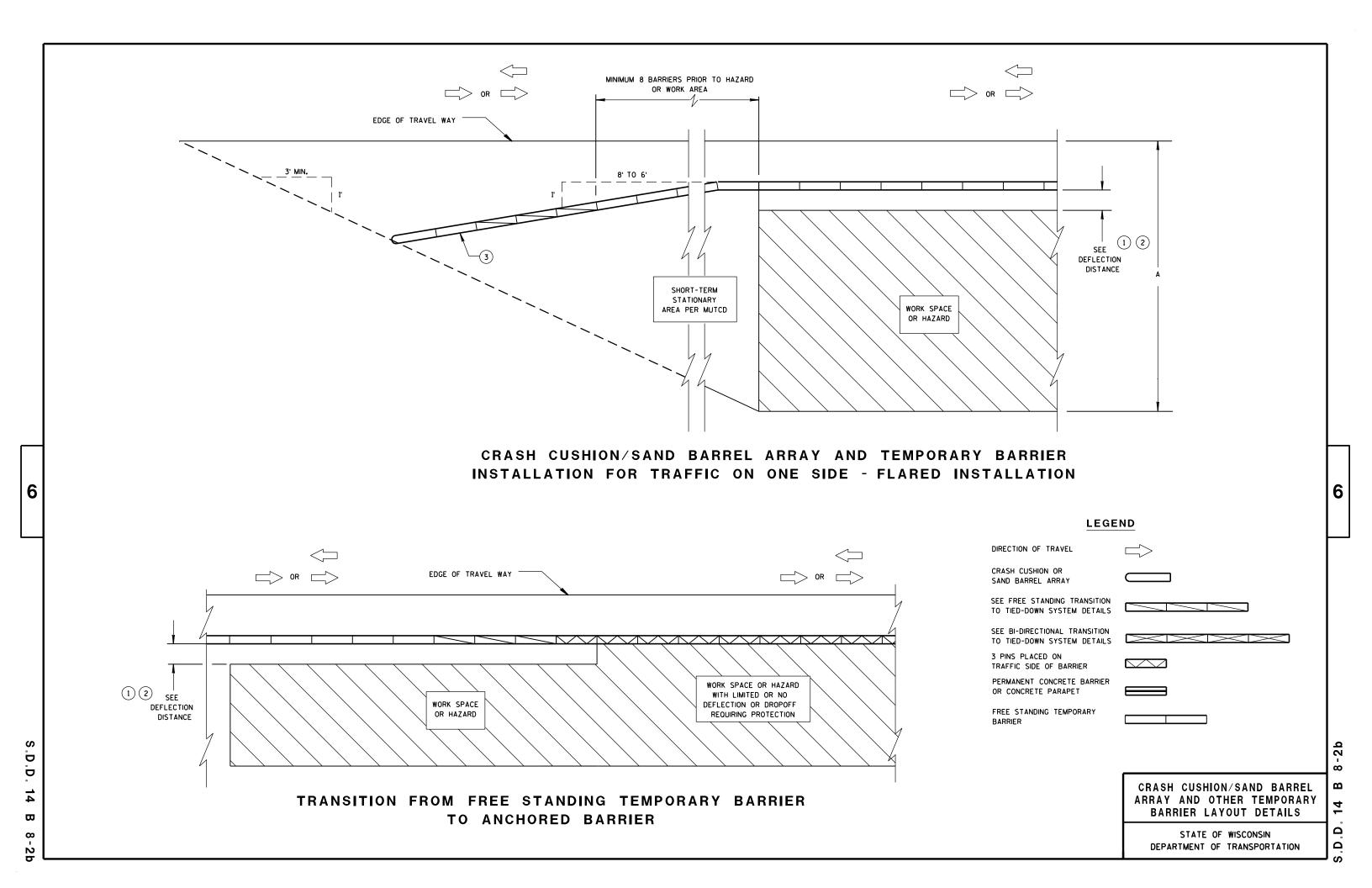
OR CONCRETE PARAPET

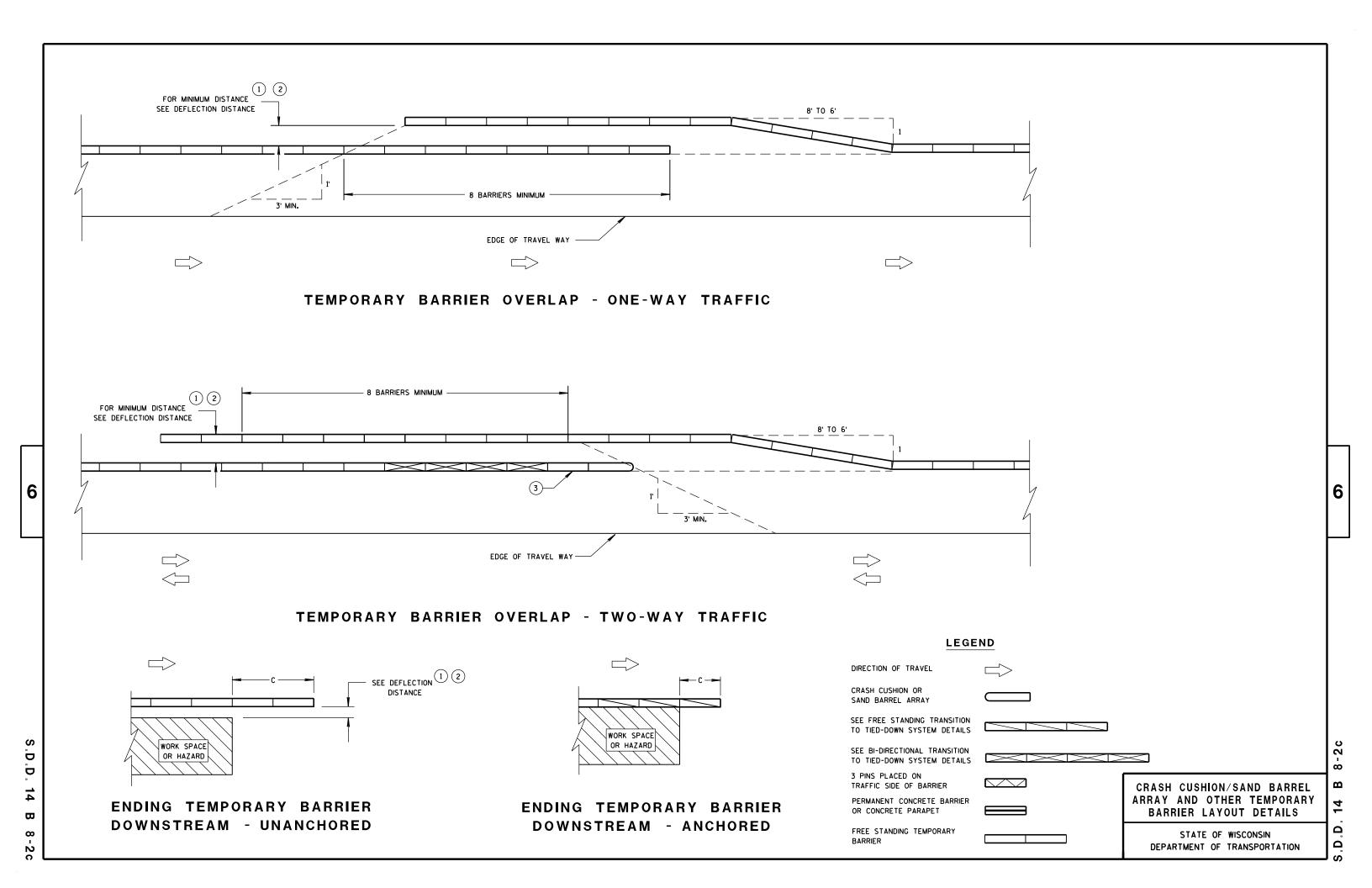
PERMANENT CONCRETE BARRIER

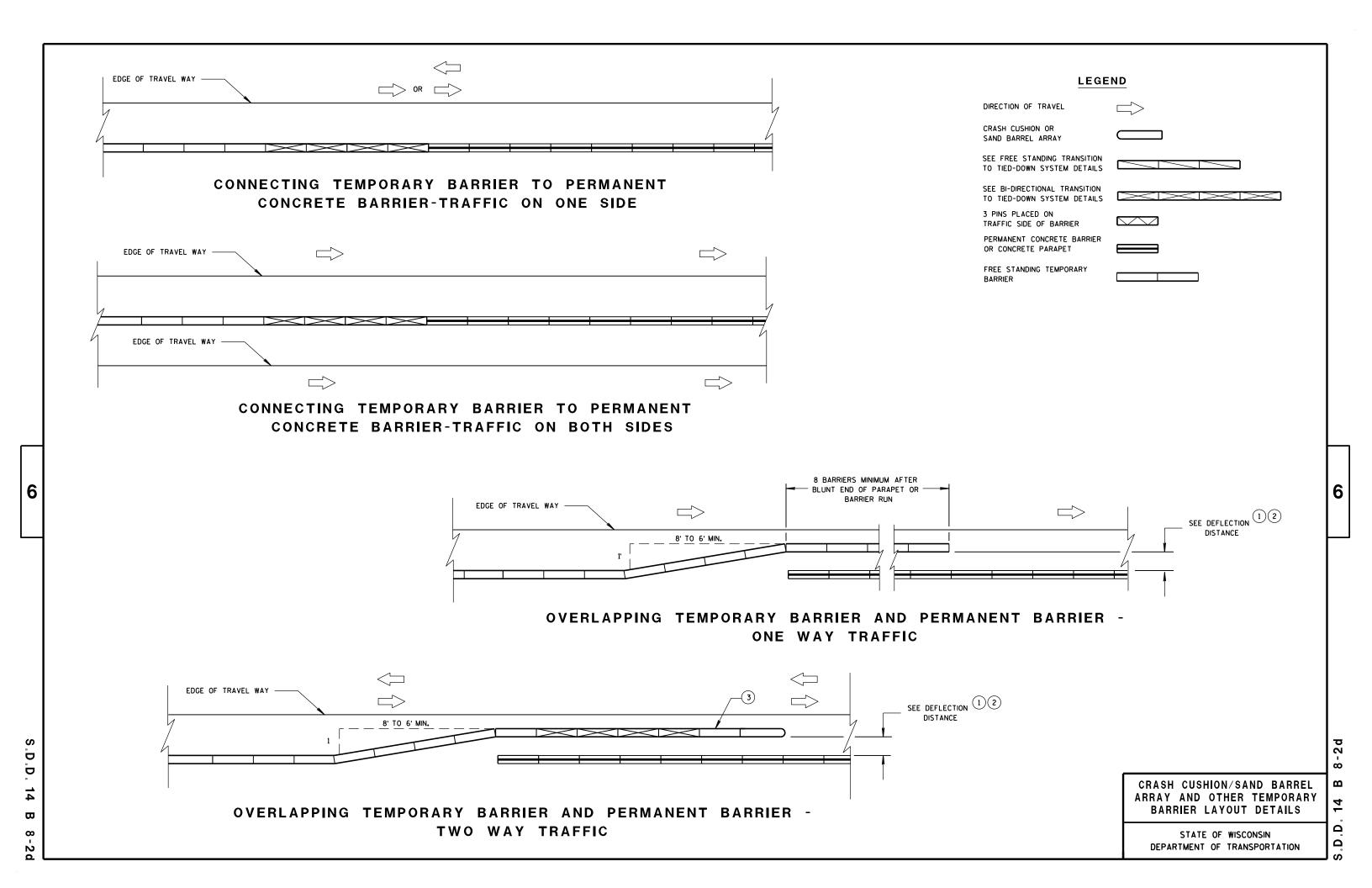
FREE STANDING TEMPORARY BARRIER

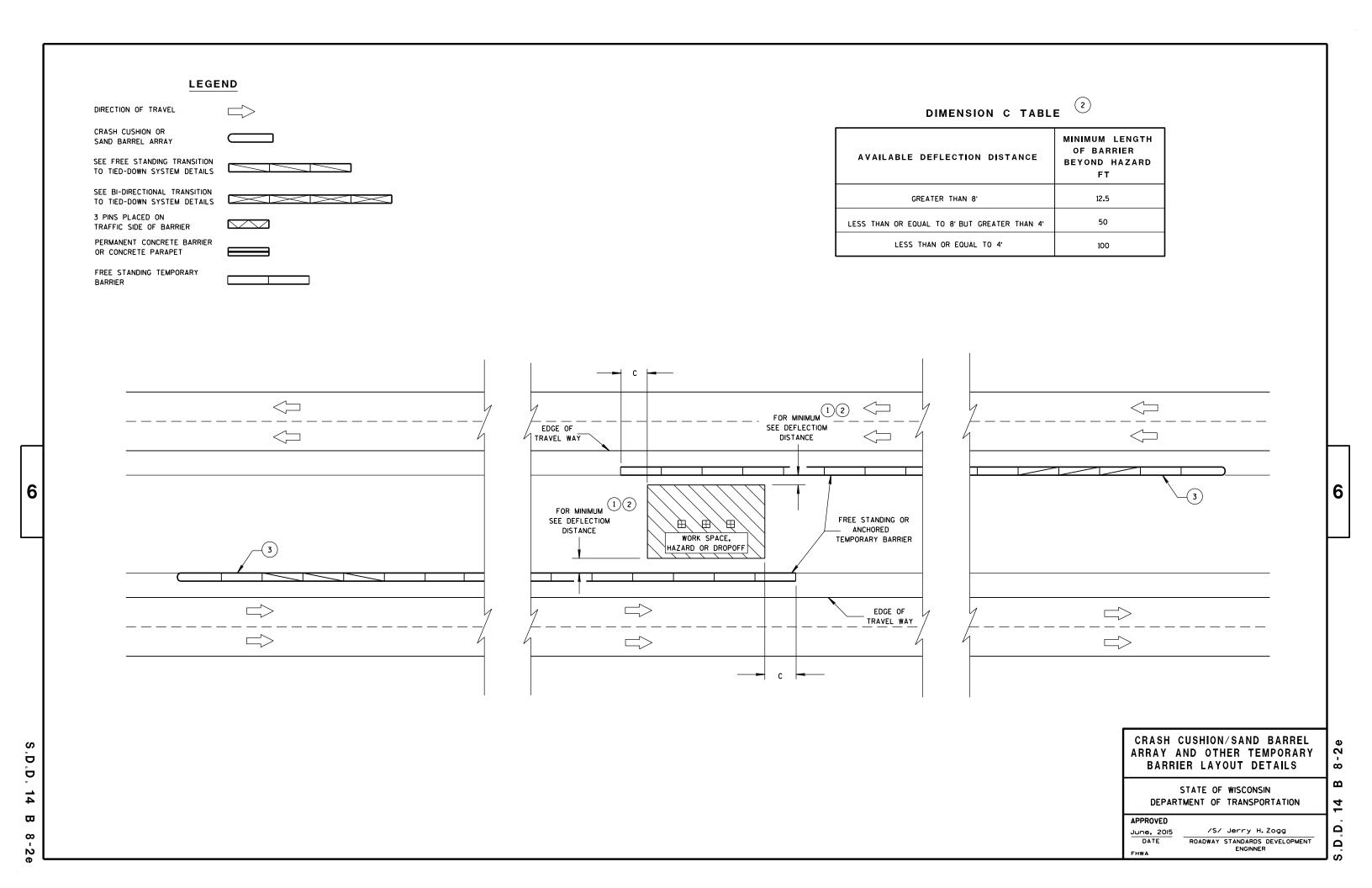
N  $\infty$  $\mathbf{\omega}$ Ω

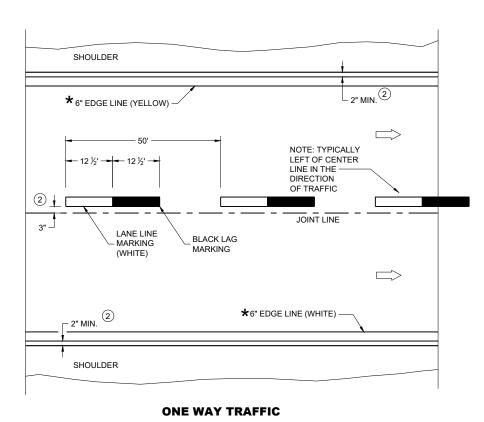
STATE OF WISCONSIN Ω











**PERMANENT PAVEMENT MARKING** 

#### **GENERAL NOTES**

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

- 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.

#### **LEGEND**

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

PERMANENT LONGITUDINAL **PAVEMENT MARKINGS** 

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

May 2023 DATE

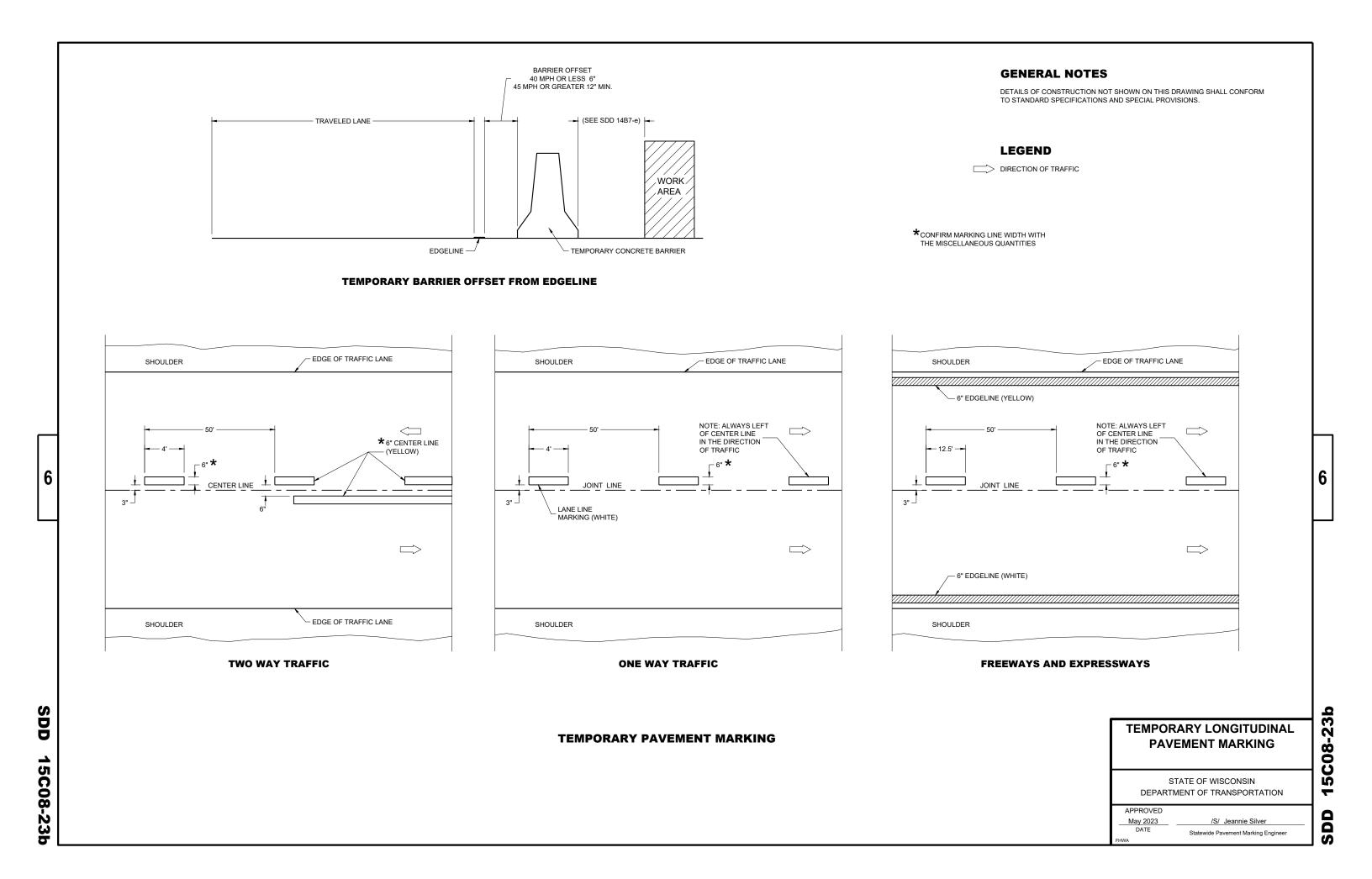
/S/ Jeannie Silver Statewide Pavement Marking Engineer

6

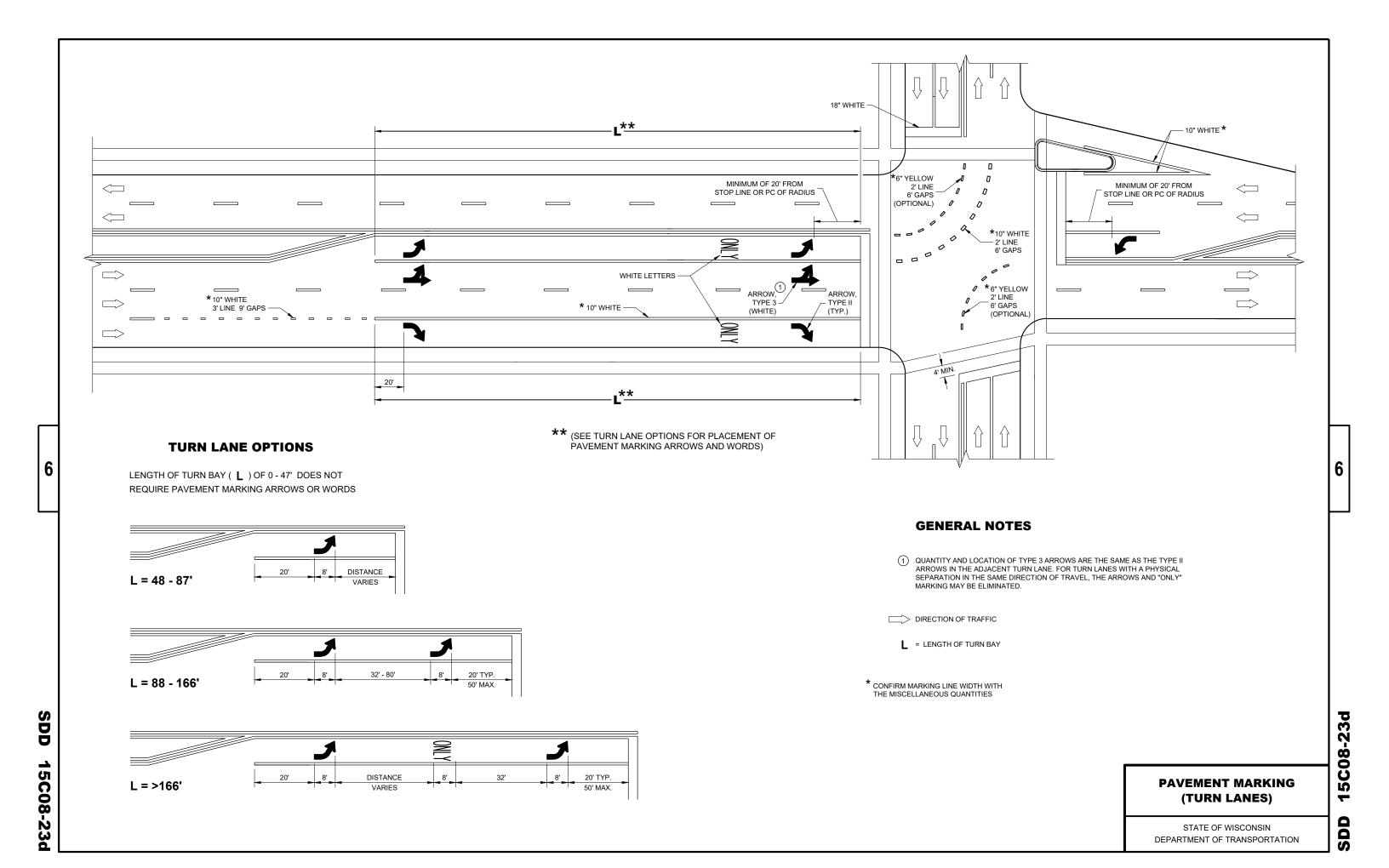
SDD

C08-23 Ŋ SD

15C08-23a



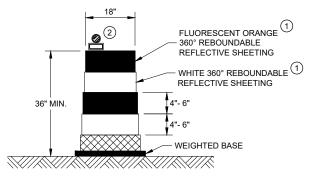
DEPARTMENT OF TRANSPORTATION



# **SDD 15C11**

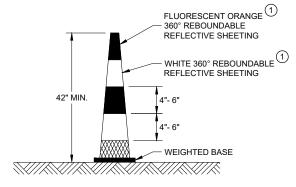
#### **GENERAL NOTES**

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



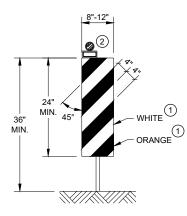
DRUM

BALLAST WIDTHS RANGE FROM 24"-36"



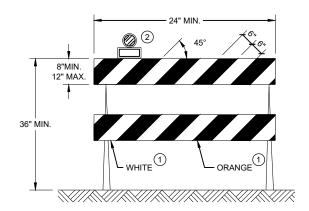
#### **42" CONE**

DO NOT USE IN TAPERS ½ SPACING OF DRUMS BALLAST WIDTHS RANGE FROM 14"-20"



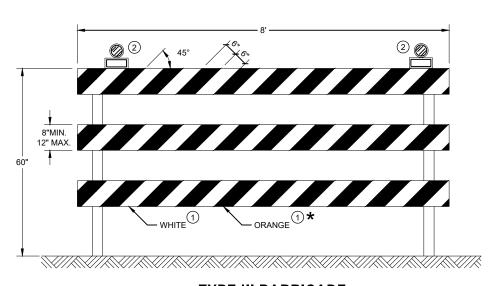
#### **VERTICAL PANEL**

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



#### **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**

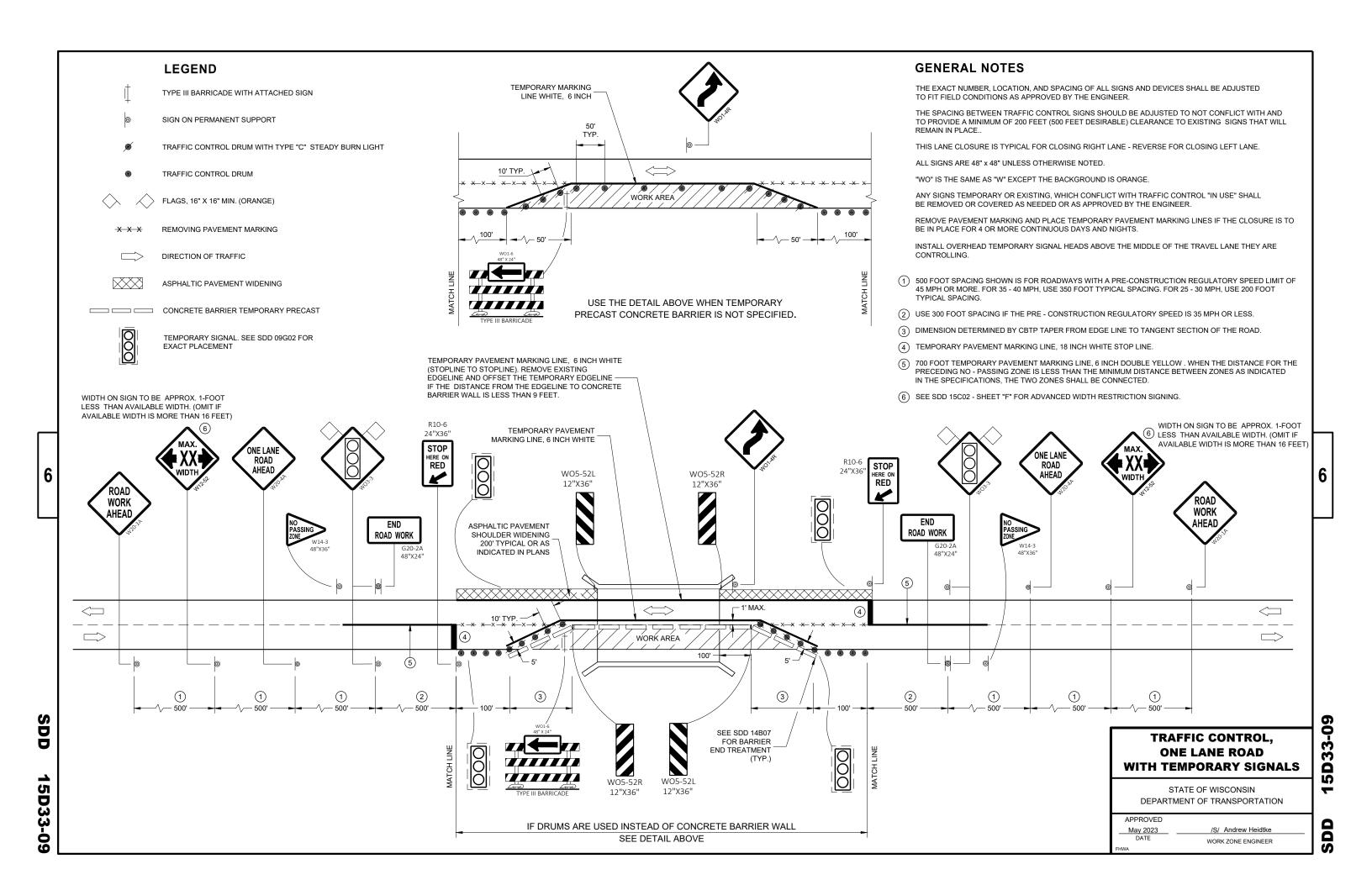
IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

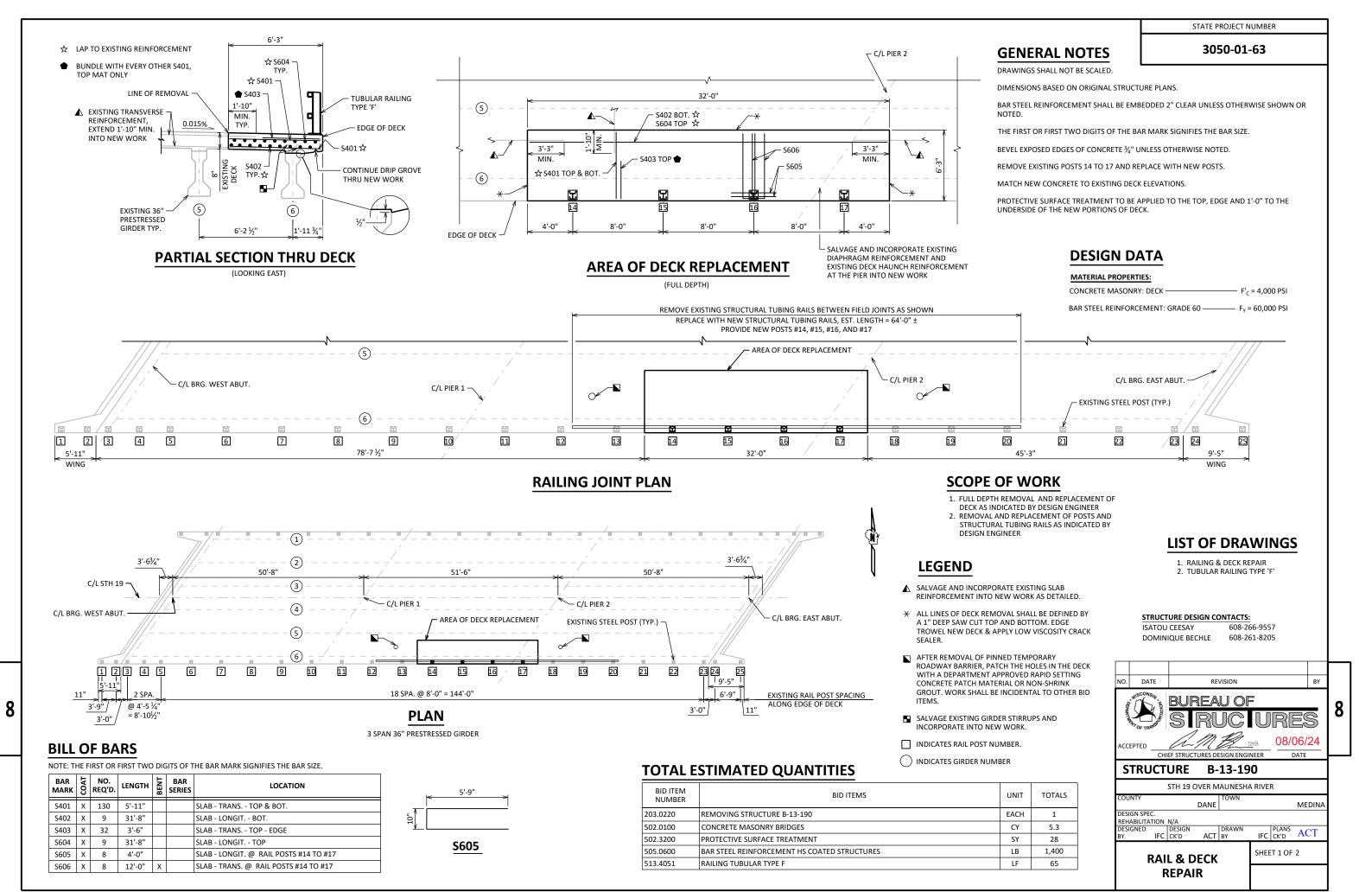
\* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 15C

APPROVED	
November 2022	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER





3050-01-63

#### **LEGEND**

- 1 W6X25 WITH  $\emph{1}\frac{1}{4}$ " DIA. HOLES ON EACH SIDE OF POST FOR STUD NO. 6. CUT
- 5 TS 4 X 4 X 0.25 STRUCTURAL TUBING, CONFORMING TO ASTM DESIGNATION A501
- REQ'D AT EACH RAIL TO POST LOCATION.)

POST BASE PLATES, NO. 2, SHALL BE FLAT WITH ALL SURFACES SMOOTH, STRAIGHT AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE

ALL MATERIAL, EXCEPT ANCHORAGE DETAIL NO. 4 SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE

FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 WITH NON-STAINING GRAY

ALL MATERIALS USED IN FABRICATION SHALL BE MADE FROM MATERIALS CONFORMING TO

STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REQ'D. FOR ALIGNMENT.

PLACE FIRST BOTTOM LONGITUDINAL BAR CLEAR OF DRIP GROOVE.

▲ TIE TO TOP MAT OF STEEL.

- BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POSTS NORMAL
- 2) PLATE 1" X 9½" X 10", WITH 1 ½" SLOTTED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN.
- $\stackrel{\textstyle \frown}{}$  A325  $\stackrel{\textstyle \frown}{}$  DIA. X 8" LONG HEX BOLTS (GALVANIZED) WITH A325 NUT & WASHER. 4 REQ'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING.
- $\textcircled{4}\ ^{1}\!\!\!/_{4}"$  X 8" X 8" FLAT BAR, WITH  $^{15}\!\!\!/_{16}"$  DIA. HOLES FOR ANCHOR BOLTS NO.3.
- OR A500 GRADE B. ATTACH TO NO. 1 WITH TWO NO. 6 STUDS.
- STUDS MAY BE FIELD WELDED TO MATCH LOCATION OF HOLES IN EXISTING POSTS.
- $\ \$  SQUARE SLEEVE FABRICATED FROM  $\frac{1}{4}$ " PLATE. PROVIDE "SLIDING FIT" WITH A MINIMUM OUT TO OUT DIMENSION OF  $3^{13}/_{32}$ ".
- $_{\bigodot}$  TS 3 X 3 X 0.25 X (1'-10" AT FIELD JOINTS) LONG. PROVIDE  $\frac{1}{2}$ " DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 5. PROVIDE  $\frac{3}{8}$ " DIA. X  $\frac{1}{2}$ " WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

#### **GENERAL NOTES**

BID ITEM SHALL BE "RAILING TUBULAR TYPE B-13-190", WHICH INCLUDES ALL ITEMS SHOWN.

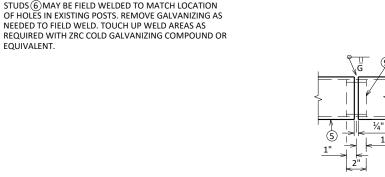
RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS

MACHINE OR MACHINE FLAME CUT

GIVEN A NO. 6 BLAST CLEANING BY SSPC SPECIFICATIONS.

NON-BITUMINOUS JOINT SEALER.

ASTM DESIGNATION A709 GRADE 36 UNLESS NOTED OTHERWISE.



NEW POST AND ANCHORAGE ASSEMBLY POSTS #14, #15,

NEW STRUCTURAL TUBING RAILS FROM EXISTING FIELD

**ERECTION JOINT JUST EAST OF POST #12 TO EXISTING** 

FIELD ERECTION JOINT JUST EAST OF POST #20.

APPROXIMATE LENGTH = 64'±. FIELD VERIFY ALL

#16 AND #17. ALL OTHER POST TO REMAIN.

THIS FACE TO

BE VERTICAL

S605

**SECTION THRU RAILING ON DECK** 

(SHOWN AT NEW POSTS #14, #15, #16 AND #17)

\_ \_ \_ \_ t

\$605

#### **SHOP RAIL** SPLICE DETAIL

(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



(AT FIELD JOINTS)

La-C 1/2" DIA. SURFACE WELDS

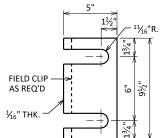
SYM. ABOUT C/L

STUDS

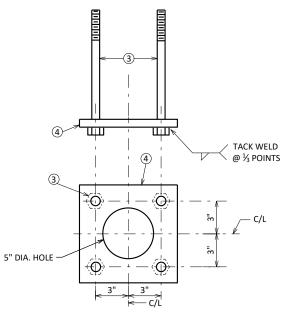
 $\frac{1}{6}$  POST PANEL LENGTH ± 4" (AT FIELD JOINTS)

**SECTION C** 

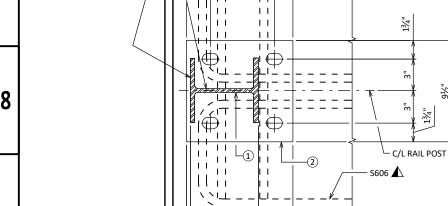
3/8" DIA. X 1/2" WELDING



#### **POST SHIM DETAIL** 4 PER POST



**ANCHORAGE DETAIL** 



63/8"

%"

15/8"

EDGE OF DECK

SEAL WELD SEAL WELD ALL AROUND 5/16

**SECTION A-A** 

3½"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION STRUCTURE B-13-190 IFC CK'D ACT SHEET 2 **TUBULAR RAILING** 

TYPE 'F'



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov