Section No. 3

TOTAL SHEETS = 42

NOV 2015 STATE OF WISCONSIN ORDER OF SHEETS DEPARTMENT OF TRANSPORTATION Section No. 1 Typical Sections and Details (Includes Erosion Control Plans) Section No. 2

PLAN OF PROPOSED IMPROVEMENT

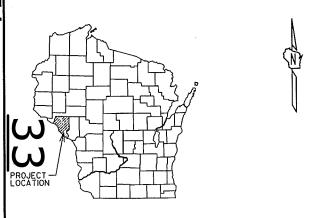
WABASHA - DURAND

MISSISSIPPI RIVER BRIDGE B-06-0020

STH 25 BUFFALO COUNTY

> STATE PROJECT NUMBER 7170-00-74

> > Nelson



Estimate of Quantities

Section No. 3 Miscellaneous Quantities 4 Right of Way Plat

Section No. 6 Standard Detail Drawings

Section No. 5 Plan and Profile

Section No. 8 Structure Plans

DESIGN DESIGNATION

= 5050 A.A.D.T. (2009) A.A.D.T. (2029) = 6800 D.H.V. = 712 = 62/38 D.D. = 10.0% DESIGN SPEED = 60 MPH = 1,591,400 ESALS

CONVENTIONAL SYMBOLS

WOODED OR SHRUB AREA

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

PROFILE GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH

GRADE ELEVATION CULVERT (Profile View) UTILITIES

OVERHEAD LINES GAS SANITARY SEWER STORM SEWER TELEPHONE

WATER UTILITY PEDESTAL POWER POLE TELEPHONE POLE

ELECTRIC FIBER OPTIC

R-14-W

00

PEPIN

T-22-N

__ LABEL __ _

T.23N.

LAYOUT TOTAL NET LENGTH OF CENTERLINE = 0.152 MI

R.14W.

STRUCTURE B-06-20 STA 77+00 BEGIN PROJECT 7170-00-74 STA 73+46.25 Y = 337,302.059X = 517,480.491

-END PROJECT 7170-00-74

STA 80+53.75 Y = 338.017.678X = 517,838.109

> COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), BUFFALO COUNTY.

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 7170-00-74

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY CEDAR CORPORATION Surveyor AARON CHRIST Designer DAVID KOEPP Project Manager DAN OJIBWAY Regional Supervisor ____TIMOTHY_MASON C.O. Examiner

PPROVED FOR THE DEPARTMENT

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

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILTIES PRIOR TO THE START OF WORK. ANY UTILITY WHICH IS NOT A MEMBER OF OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

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 MEMBERS OF DIGGERS HOTLINE.

THE EROSION CONTROL ITEMS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS AS NEEDED. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEAURE IS NO LONGER NECESSARY.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN WETLANDS

PAVEMENT MARKING SHALL BE EPOXY.

Dial or (800)242-8511 www.DiggersHotline.com

PROJECT NO: 7170-00-74

LOCAL - UTILITY

NO KNOWN UTILITIES WITHIN THE PROJECT LIMITS.

FEDERAL - ARMY COE

MARIE KOPKA C.O.E., ST PAUL ST PAUL, MN 55805 (651) 290-5268

STATE - DOT/STORM WATER DAVID LARSON 718 WEST CLAIREMONT EAU CLAIRE, WI 54701

(715) 836-2067

STATE - DNR KAREN KALVELAGE WISCONSIN DNR 3550 MORMON COULEE ROAD LA CROSSE, WI 54601 (608) 785-9983

PLOT BY : dota2c

STATE - DOT/REC

(715) 836-2068

718 WEST CLAIREMONT

EAU CLAIRE, WI 54701

NICK SCHAFF

LIST OF STANDARD ABBREVIATIONS

2

ABUTMENT ABUT. AGGREGATE AGG. AH. **ASPHALTIC** ASPH. AVERAGE AVG AVERAGE DAILY TRAFFIC A.D.T.

BACK BK. BL OR B/L B.M. BASE LINE BENCH MARK BRIDGE BR CENTER LINE C/L CC CENTER TO CENTER CONC. CONCRETE

CR. CRUSHED C.Y. OR CU. YD. CUBIC YARD CURB & GUTTER DEGREE OF CURVE C&G D.H.V. DESIGN HOUR VOLUME DIA. DIAMETER DIRECTIONAL DISTRIBUTION DIST. DISTRICT

FAST EAST GRID COORDINATE EASTBOUND ELECTRIC

ELECT. EL.OR ELEV. ELEVATION EMB. EMBANKMENT ENDWALL ΕW

ESALS EQUIVALENT SINGLE AXLE LOADS EXCAVATION EXC

EXIST. EXPANSION EXP FACE TO FACE FERTILIZE FERT. FINISHED GRADE FG FT. FOOT GN HT GRID NORTH HES

HIGH EARLY STRENGTH CWT. HUNDREDWEIGHT INCH DIAMETER INSIDE DIAMETER IN DIA L.H.F. LEFT-HAND FORWARD

LIN. FT. OR LF LINEAR FOOT LUMP SUM MAINTENANCE L.S. MAINT ML OR M/L MATCH LINE MATERIAL MATL NORTH NORTH GRID COORDINATE

NB OBLIT NORTHBOUND OBLITERATE OD OUTSIDE DIAMETER LB.

POUND PROJECT PROJ. RANGE, RADIUS RL OR R/L REFERENCE LINE REINFORCEMENT BAR REQUIRED REBAR REQ'D RETAINING WALL RIGHT OF WAY R/W

RD. ROAD RDWY ROADWAY SALV SEC SHLDR SALVAGED SECTION SHOULDER SHR. SHRINKAGE SOUTH SB SOUTHBOUND SPECS SF OR SQ FT SPECIFICATIONS SQUARE FEET SY OR SQ YD SQUARE YARD STD STANDARD

STH STATE TRUNK HIGHWAY STA. SURF. TEMP STATION SURFACE TEMPORARY TYP TYPICAL

UNCL. UNCLASSIFIED VOL VOLUME WESTBOUND WB YD YARD

COUNTY: BUFFALO GENERAL NOTES

PLOT NAME :

STATE - DOT RAILROADS

anna.davey@dot.wi.gov

ANNA L. DAVEY

1701 N. 4TH ST.

(715) 392-7960

SUPERIOR. WI 54880

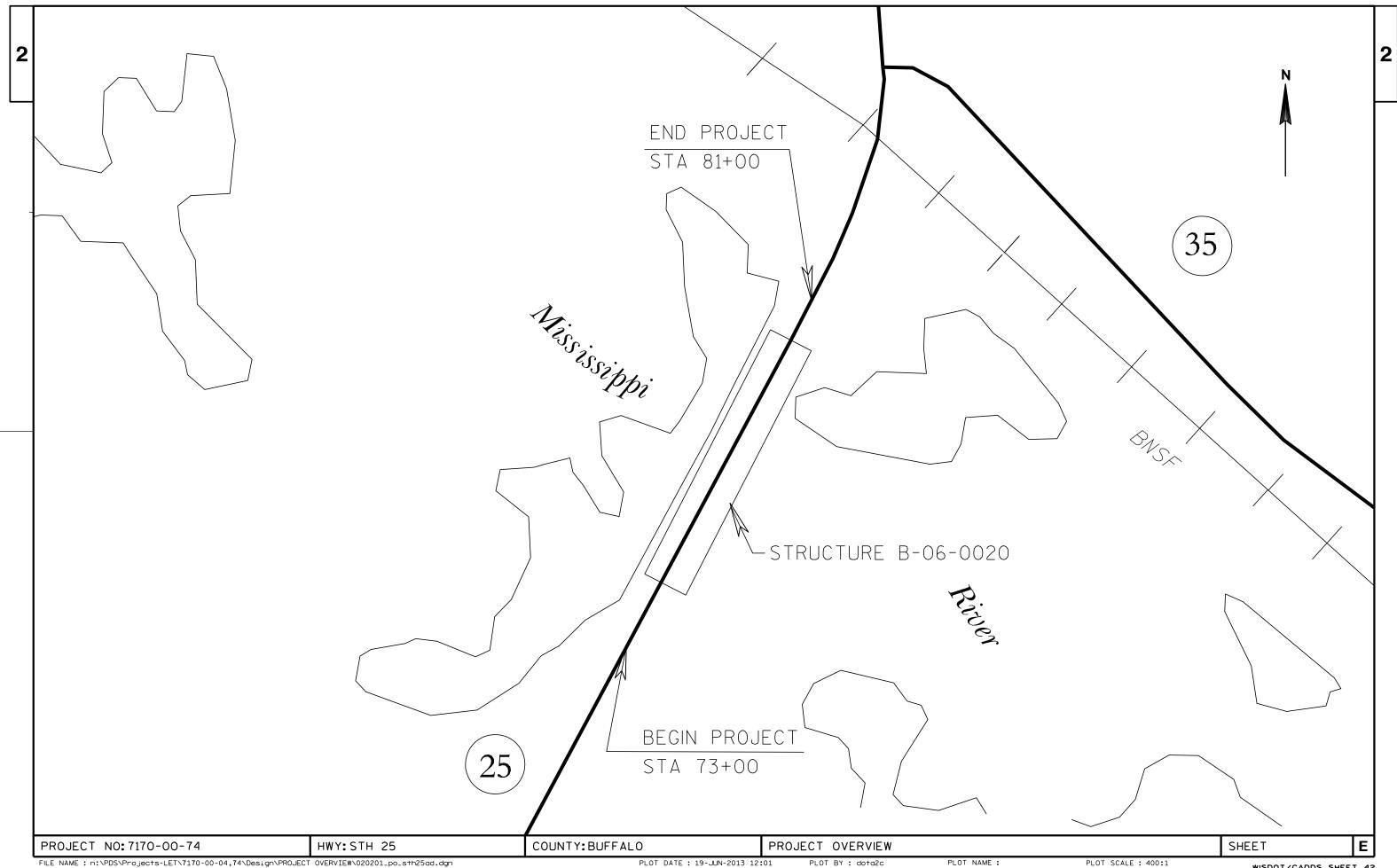
SHEET 2

FILE NAME: N:\PDS\Projects-LET\7170-00-74\Design\General Notes\020101_gn_rev_7-30-15_final.dgn

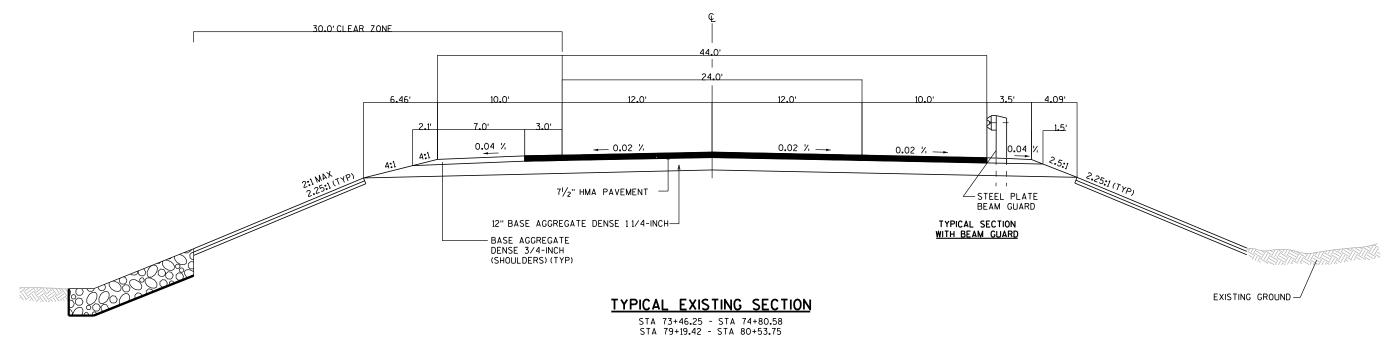
PLOT DATE : 30-JUL-2015 11:00

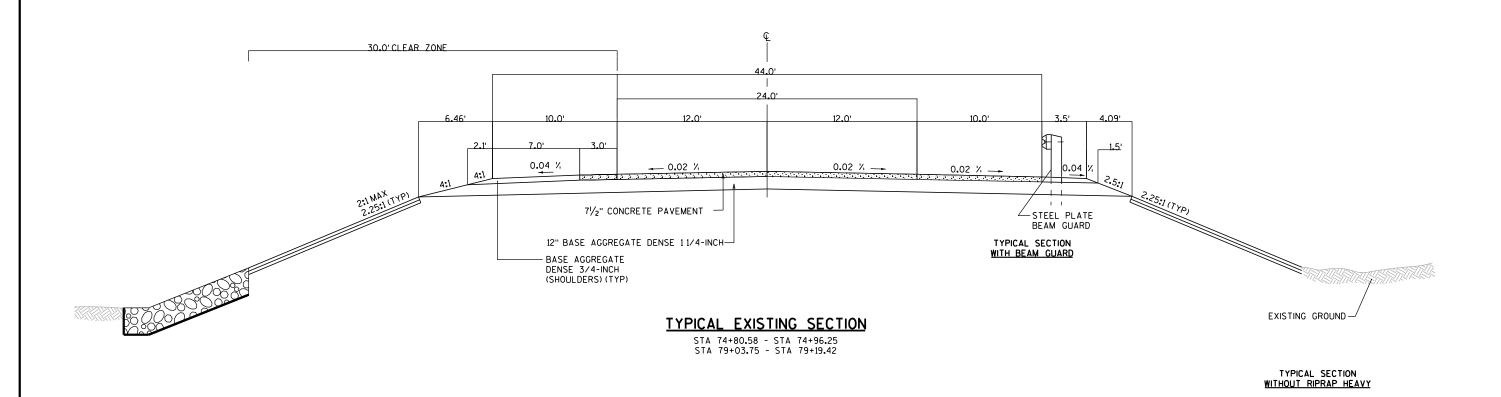
PLOT SCALE : 200:1

HWY: STH 25









HWY: STH 25

PROJECT NO: 7170-00-74

COUNTY: BUFFALO

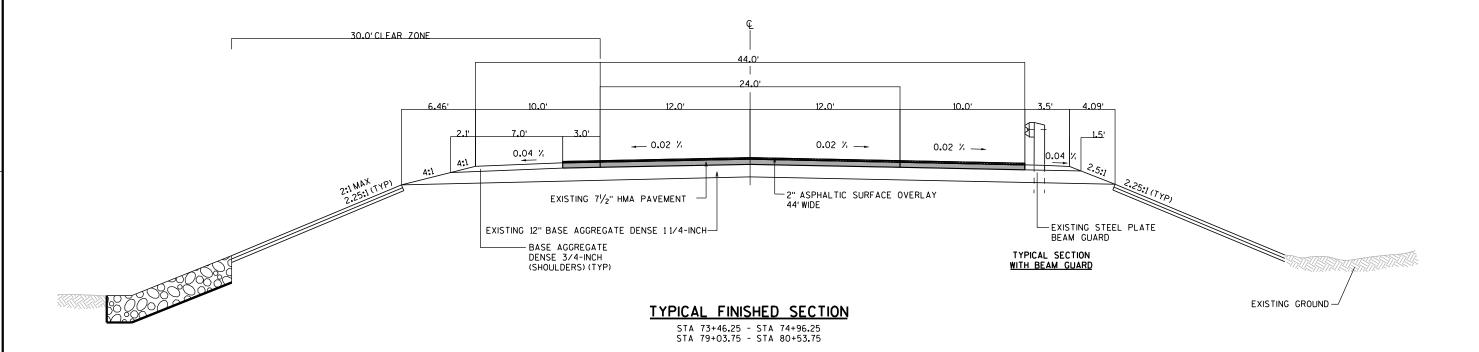
TYPICAL SECTION

TYPICAL SECTION
WITHOUT RIPRAP HEAVY

SHEET

2

12



PROJECT NO: 7170-00-74

HWY: STH 25

COUNTY: BUFFALO

TYPICAL SECTION

PLOT NAME :

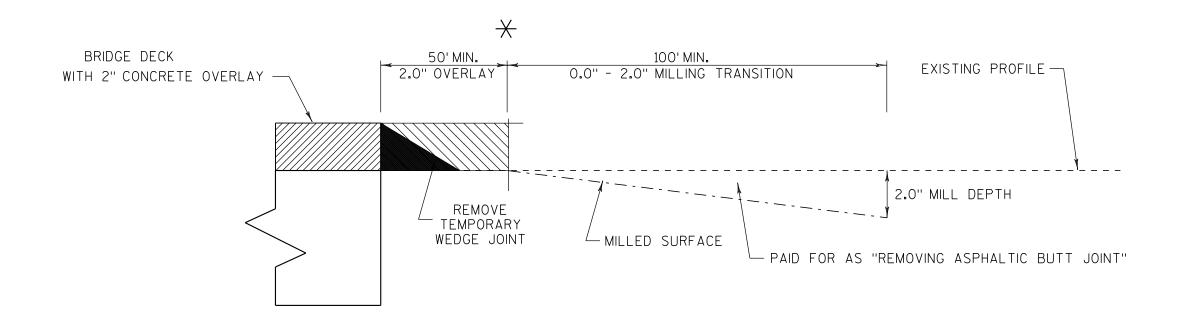
SHEET

TYPICAL SECTION
WITHOUT RIPRAP HEAVY

BRIDGE DECK
WITH 2" CONCRETE OVERLAY — 2' MIN.

TEMPORARY
WEDGE JOINT WILL BE CONSTRUCTED IN CONJUNCTION WITH STAGE CONSTRUCTION.

TEMPORARY WEDGE JOINT



BUTT JOINT DETAIL

2.0" ASPHALT OVERLAY 50'MIN FROM END OF BRIDGE DECK

MILL AND REMOVE 0.0" TO 2.0" OF EXISTING ASPHALT SURFACE IN 100-FT TRANSITION AREA.

REQUIRED AT ENDS OF EXISTING BRIDGES.

SEE LOCATIONS LISTED IN TABLE

END OF BRIDGE DECK STATIONING

> 74+96**.**25 79+03**.**75

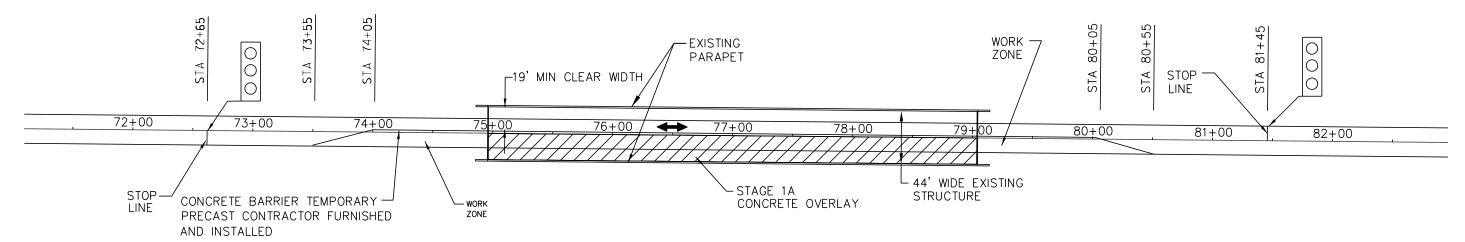
PROJECT NO: 7170-00-74 HWY: STH 25 COUNTY: BUFFALO CONSTRUCTION DETAILS SHEET E

PLOT BY : dota2c

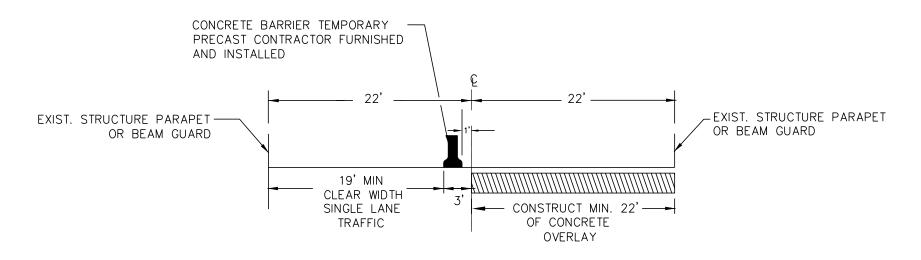
NOTES:

SEE SDD 15D33-3 FOR SIGNS AND TEMPORARY SIGNAL LOCATIONS; MAY BE ADJUSTED TO FIT FIELD CONDITIONS. OVERLAY OF APPROACHES WILL BE DONE UNDER FLAGGING OPERATION.





<u>PLAN - STAGE 1A</u>



TYPICAL SECTION - STRUCTURE

PROJECT NO: 7170-00-74 HWY: STH 25 COUNTY: BUFFALO CONSTRUCTION STAGING - STAGE 1A SHEET **E**

PLOT NAME :

DATE 18	BAUG15	EST	IMAT	E O F Q U A N	T I T I E S 7170-00-74
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
0010	204. 0115	Removing Asphaltic Surface Butt Joints	SY	489.000	489. 000
0020	211. 0100	Prepare Foundation for Asphaltic Paving	LS	1. 000	1. 000
0030	213. 0100	(project) 01. 7170-00-74 Finishing Roadway (project) 01.	EACH	1. 000	1. 000
0000	210.0100	7170-00-74	Littori	1.000	1. 000
0040	305. 0110	Base Aggregate Dense 3/4-Inch	TON	12.000	12.000
0050	455. 0605	Tack Coat	GAL	22. 000	22. 000
0060	465. 0105	Asphaltic Surface	TON	94. 000	94. 000
0070	502. 0100	Concrete Masonry Bridges	CY	76.000	76.000
0800	502. 3100	Expansion Device (structure) 01.	LS	1. 000	1. 000
0090	502. 3200	B-06-0020 Protective Surface Treatment	SY	2, 335. 000	2, 335. 000
0100	502. 5005	Masonry Anchors Type L No. 5 Bars	EACH	106. 000	106. 000
0110	505. 0605	Bar Steel Reinforcement HS Coated	LB	11, 960. 000	11, 960. 000
0120	505. 0904	Bri dges Bar Couplers No. 4	EACH	24. 000	24. 000
0130	505. 0905	Bar Couplers No. 5	EACH	84. 000	84. 000
0140	509. 0301	Preparation Decks Type 1	SY	200.000	200.000
0150	509. 0302	Preparation Decks Type 2	SY	100. 000	100. 000
0160	509. 0500	CI eani ng Decks	SY	1, 993. 000	1, 993. 000
0170	509. 1000	Joint Repair	SY	145. 000	145. 000
0180	509. 1500	Concrete Surface Repair	SF	20. 000	20. 000
0190	509. 2000	Full-Depth Deck Repair	SY	1. 000	1. 000
0200	509. 2500	Concrete Masonry Overlay Decks	CY	111. 000	111. 000
0210	603. 8000	Concrete Barrier Temporary Precast	LF	700.000	700. 000
52 10	303. 0000	Delivered	<u>_</u> ,	700.000	, 50. 500
0220	603. 8125	Concrete Barrier Temporary Precast	LF	1, 400. 000	1, 400. 000
0000	(10.0100	Installed	FACU	4 000	4 000
0230	618. 0100	Maintenance And Repair of Haul Roads (project) 01. 7170-00-74	EACH	1. 000	1. 000
0240	619. 1000	Mobilization	EACH	1. 000	1. 000
0250	642. 5001	Field Office Type B	EACH	1. 000	1. 000
0260	643. 0100	Traffic Control (project) 01. 7170-00-74	EACH	1.000	1.000
0270 0280	643. 0300 643. 0715	Traffic Control Drums Traffic Control Warning Lights Type C	DAY DAY	1, 200. 000 600. 000	1, 200. 000 600. 000
0280	643. 0900	Traffic Control Signs	DAY	450. 000	450. 000
0300	646. 0106	Pavement Marking Epoxy 4-Inch	LF	1, 760. 000	1, 760. 000
0045				005 006	
0310	646. 0406	Pavement Marking Same Day Epoxy 4-Inch Removing Pavement Markings	LF LF	225. 000 812. 000	225. 000 812. 000
0320 0330	646. 0600 648. 0100	Locating No-Passing Zones	MI	0. 030	0. 030
0340	649. 0100	Temporary Pavement Marking 4-Inch	LF	4, 676. 000	4, 676. 000
0350	649. 1400	Temporary Pavement Marking Stop Line	LF	24. 000	24. 000
		Removable Tape 24-Inch			
0360	650. 6500	Construction Staking Structure Layout	LS	1. 000	1. 000
0300	030.0000	(structure) 01. B-06-0020	LJ	1.000	1.000
0370	650. 8000	Construction Staking Resurfacing	LF	708. 000	708. 000
		Reference			
0380	650. 9910	Construction Staking Supplemental	LS	1. 000	1. 000
0390	661. 0100	Control (project) 01. 7170-00-74 Temporary Traffic Signals for Bridges	LS	1. 000	1. 000
0370	301.0100	(structure) 01. B-06-0020	LJ	1.000	1.000
0400	661. 0300	Generators	DAY	14. 000	14. 000
	- 				
0410	715. 0502	Incentive Strength Concrete Structures	DOL	500.000	500. 000

REMOVING ASPHALTIC SURFACE BUTT JOINTS

FINISHING ROADWAY (7170-00-74)

CATEGORY	STATI ON	LOCATI ON	204. 0115 SY	CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	213. 0100 EACH
	72.44 25		244	0010	73+46	_	80+54		1
0010 0010	73+46. 25 80+53. 75		244 244						
								TOTAL 0010	1
		TOTAL 0010	488						

BASE AGGREGATE DENSE 3/4-INCH

TACK COAT

CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	305. 0110 TON
0010	73+46	-	74+96		6
0010	79+04	-	80+54		6
				TOTAL 0010	12

					455. 0605
CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	GAL
0010	73+46	-	74+96	STH 25	11
0010	79+04	-	80+54	STH 25	11
				TOTAL 0010	22

ASPHALTIC SURFACE

					465. 0105
CATEGORY	STATI ON	TO	STATI ON	LOCATI ON	TON
•					
0010	73+46	-	74+96		47
0010	79+04	-	80+54		47
				TOTAL 0010	94
				101712 0010	• •

Е COUNTY: BUFFALO SHEET: PROJECT NO: 7170-00-74 HWY: STH 25 MISCELLANEOUS QUANTITIES PLOT NAME :

CONCRETE BARRIER TEMPORARY PRECAST DELIVERED

CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	603. 8000 LF
0010	73+55	-	80+55		700
				TOTAL 0010	700

CONCRETE BARRIER TEMPORARY PRECAST INSTALLED

					603. 8125	
CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	LF	REMARKS
0010	73+55	_	80+55		700	STAGE 1A
0010	73+55	-	80+55		700	STAGE 1B
				TOTAL 0010	1400	

MAINTENANCE AND REPAIR OF HAUL ROADS (7170-00-74)

MOBI LI ZATI ON

CATEGORY	STATI ON	TO	STATI ON	LOCATI ON	618. 0100 EACH	CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	619. 1000 EACH
0010	73+46	-	80+54	PROJECT 7170-00-74	1	0010	73+46	-	80+54		0. 5
				TOTAL 0010	1					TOTAL 0010	0. 5
						0020	73+46	-	80+54		0. 5
										TOTAL 0020	0. 5

Е COUNTY: BUFFALO SHEET: PROJECT NO: 7170-00-74 HWY: STH 25 MISCELLANEOUS QUANTITIES PLOT NAME :

3

FIELD OFFICE TYPE B

TRAFFIC CONTROL DRUMS

		642. 5001	643. 0300
	CATEGORY LOCATI ON	EACH	CATEGORY STATION TO STATION LOCATION DAYS REMARKS
3	0010 PROJECT	1	0010 72+90 - 81+10 600 STAGE 1A
	TOTAL 0010	1	0010 72+90 - 81+10 600 STAGE 1B
			TOTAL 0010 1200

TRAFFIC CONTROL (7170-00-74)

TRAFFIC CONTROL WARNING LIGHTS TYPE C

					643. 0100					643. 0715	
CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	EACH	CATEGORY	STATION TO	STATI ON	LOCATI ON	DAYS	REMARKS
0010	73+46	_	80+54	PROJECT 7170-00-74	1	0010	72+90 -	81+10		300	STAGE 1A
						0010	72+90 -	81+10		300	STAGE 1B
				TOTAL 0010	1						
									TOTAL 0010	600	

TRAFFIC CONTROL SIGNS

					643. 0900	
CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	DAYS	REMARKS
0010	73+46	-	80+54		450	ADVANCED WARNING
				TOTAL 0010	450	

PLOT BY : dotadc

PAVEMENT MARKING EPOXY 4-INCH

					646. 0106	
CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	LF	REMARKS
0010	72+65	_	81+45		880	EDGELINE (WHITE)
0010	72+65	-	81+45		880	EDGELINE (WHITE)
				TOTAL 0010	1760	

PAVEMENT MARKING SAME DAY EPOXY 4-INCH

					646. 0406	
CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	LF	REMARKS
0010	72+65	-	81+45		225	CENTERLINE (YELLOW) - DASHES
				TOTAL 0010	225	

REMOVING PAVEMENT MARKINGS

					646.0600	
CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	LF	REMARKS
0010	73+55	-	80+55		812	WHITE (EDGE LINE) - STAGE 1A
				TOTAL 0010	812	

LOCATING NO-PASSING ZONES

					648.0100
CATEGO	RY STATIC	N TO	STATI ON	LOCATI ON	MI
0010	73+46	-	80+54		0. 03
				T0TAL 0010	0. 03

PROJECT NO: 7170-00-74 HWY: STH 25 COUNTY: BUFFALO MISCELLANEOUS QUANTITIES SHEET: **E**

Е

SHEET:

TEMPORARY PAVEMENT MARKING 4-INCH

TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 24-INCH

0010 65+65 - 72 0010 81+45 - 88 0010 81+45 - 88 0010 73+55 - 80	88+45 STAGE 1A 88+45 STAGE 1A	TOO SOLID (YELLOW) TOO SOLID (YELLOW) TOO DASH (YELLOW)	CATEGORY 0010 0010	72+65 81+45	LOCATI ON LT RT	LF 12	REMARKS STAGE 1A
0010 81+45 - 88 0010 81+45 - 88 0010 73+55 - 80	88+45 STAGE 1A 88+45 STAGE 1A	700 SOLID (YELLOW)					
0010 81+45 - 88 0010 81+45 - 88 0010 73+55 - 80	88+45 STAGE 1A 88+45 STAGE 1A	700 SOLID (YELLOW)					
0010 73+55 - 80	88+45 STAGE 1A					12	STAGE 1A
							0.7.02 .7.
	30+55 STAGE 1A	882 EDGELINE (WHITE)			TOTAL 0010	24	
0010 65+65 - 72	72+65 STAGE 1B	700 SOLID (YELLOW)					
0010							
0010 81+45 - 88	STAGE 1B	700 SOLID (YELLOW)					
0010 81+45 - 88	STAGE 1B	56 DASH (YELLOW)					
0010 73+55 - 80	SO+55 STAGE 1B	882 EDEGELINE (WHITE)					

CONSTRUCTION STAKING RESURFACING REFERENCE

TEMPORARY TRAFFIC SIGNALS FOR BRIDGES (B-06-0020)

CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	650. 8000 LF	CATEGO	RY STATION	T0	STATI ON	LOCATI ON	661. 0100 LS
0010	73+46	-	80+54		708	0010	72+65	-	81+45		1
				TOTAL 0010	708					TOTAL 0010	1

GENERATORS

CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	661. 0300 DAY
0010	72+00	-	82+00		14
				TOTAL 0010	14

PROJECT NO: 7170-00-74 HWY: STH 25 FILE NAME : N:\PDS\Projects-LET\7170-00-04,74\Estimate & Quantities\030301_mq_71700074.pdf

COUNTY: BUFFALO PLOT DATE: 30-JULY-2015 MISCELLANEOUS QUANTITIES PLOT BY : dotadc

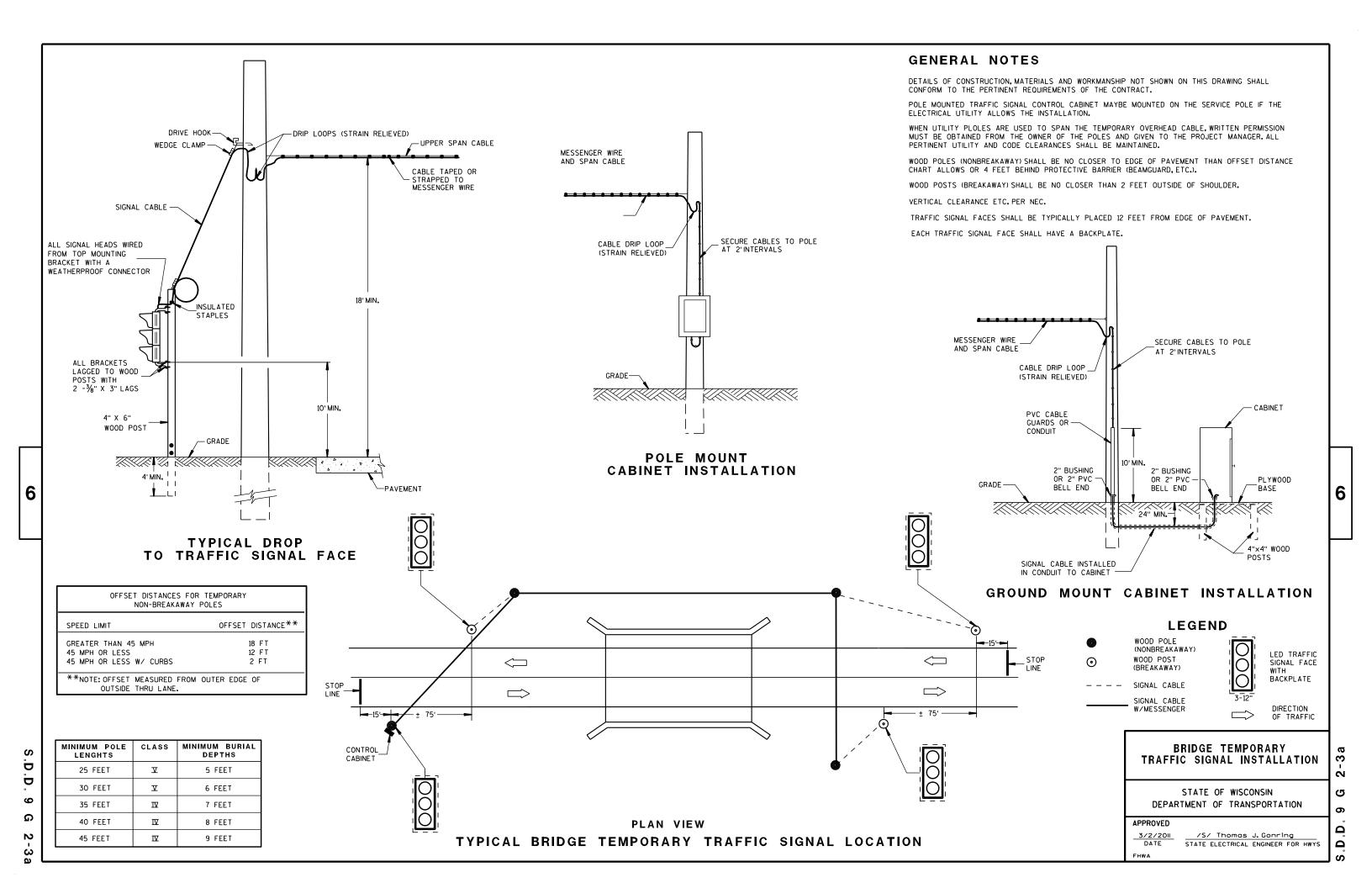
PLOT NAME :

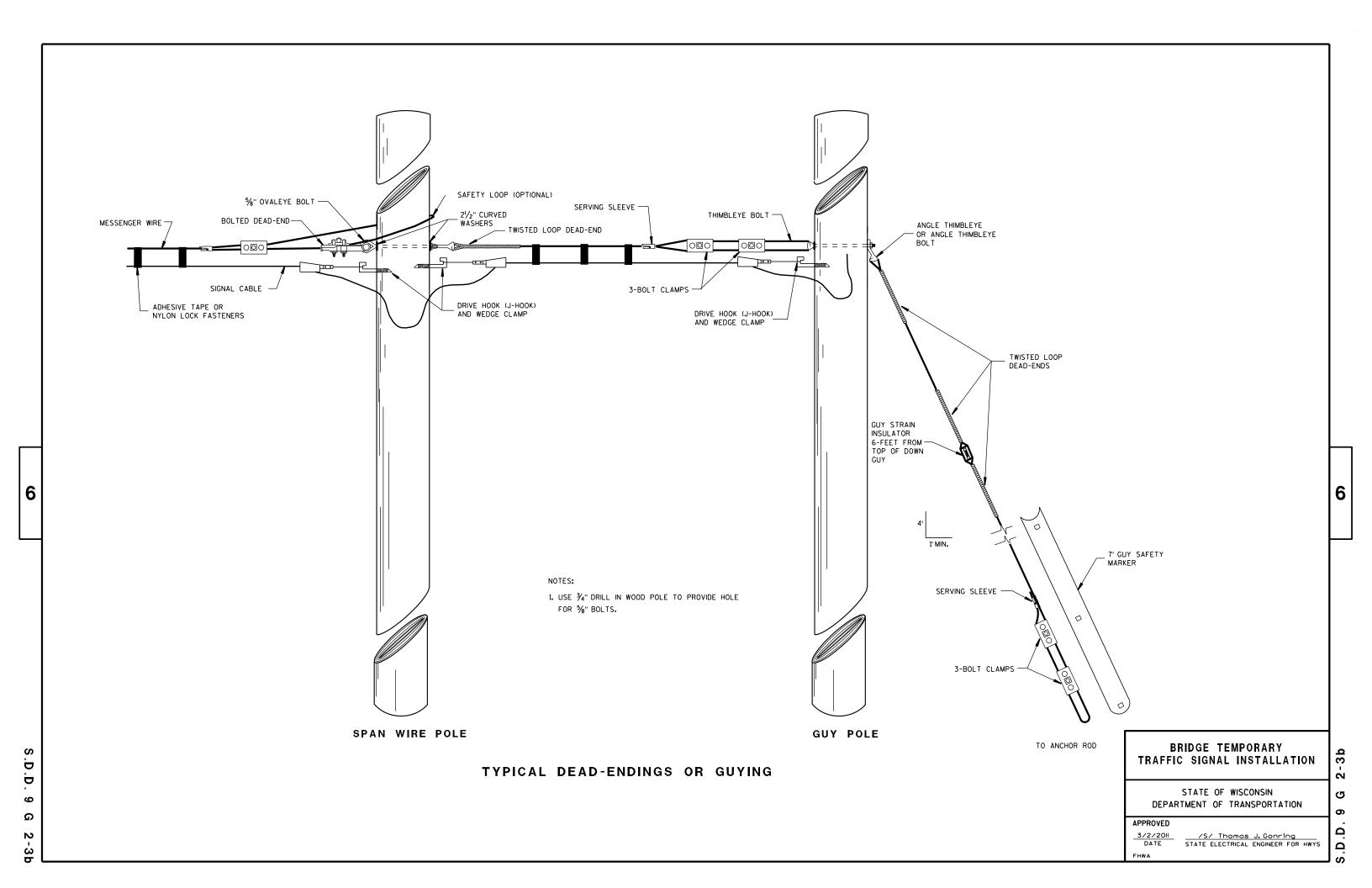
PLOT SCALE : 1:1

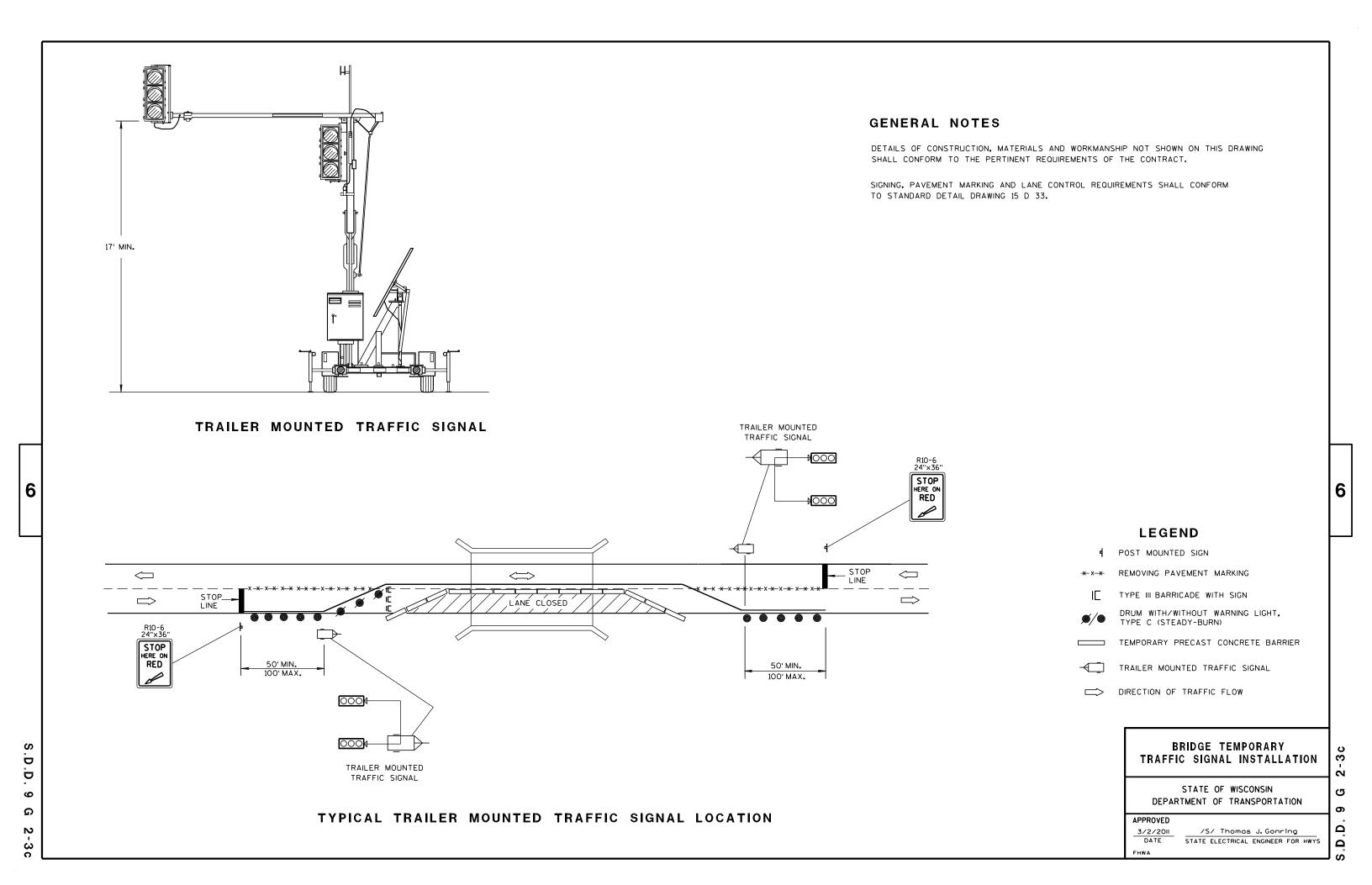


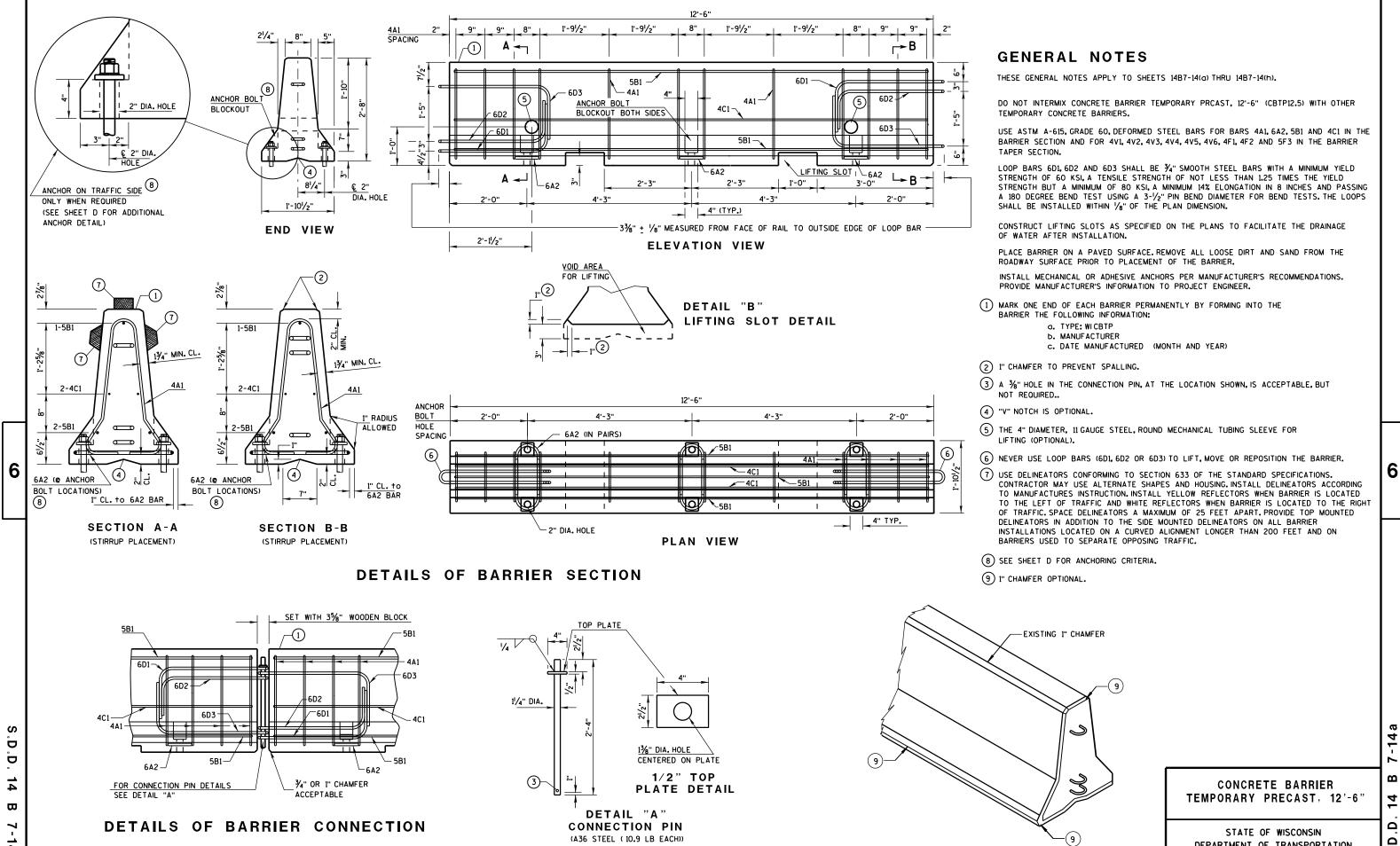
Standard Detail Drawing List

09G02-03A	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-03B	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-03C	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
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"
15C06-07	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15D33-03	TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS

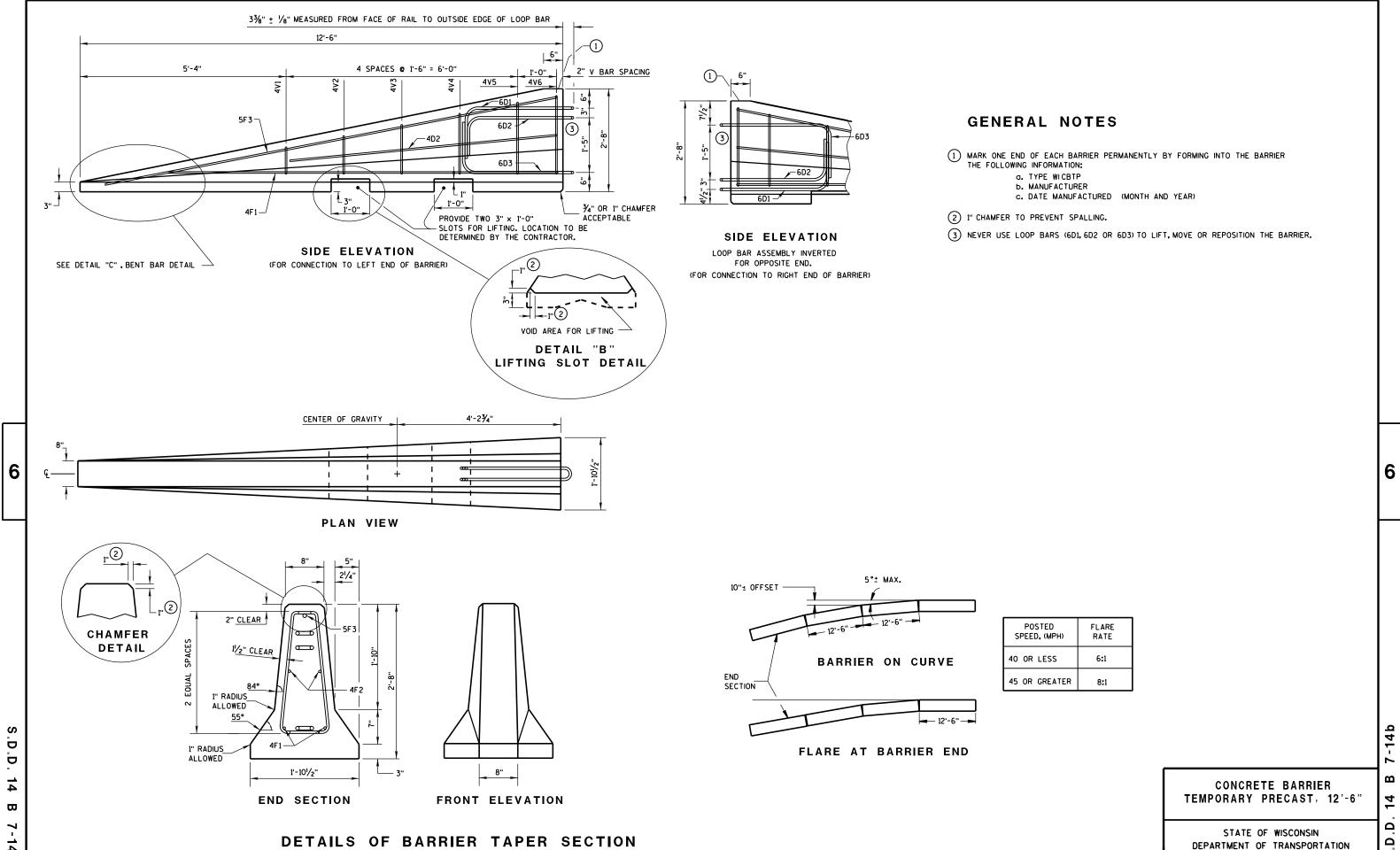








DEPARTMENT OF TRANSPORTATION



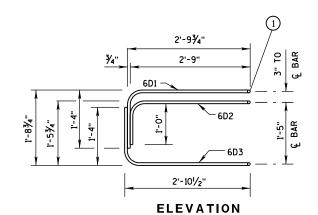
Ω

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

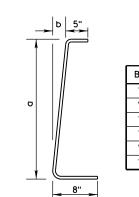
BARRIER TAPER SECTION BILL OF MATERIALS

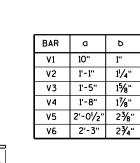
(PER 12'-6" BARRIER TAPER SECTION)

WENTE O BANNEN 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	LOOP ASSEMBLY							
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

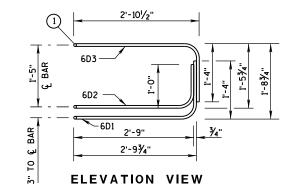
4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

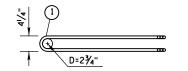
TAPER BARRIER SECTION

BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

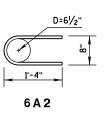
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
L	OOP AS	SSEMBL	Υ
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"

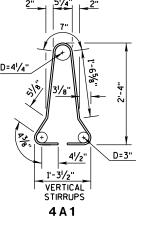




PLAN VIEW Loop bar assembly

(MARKED END SHOWN, INVERT FOR OTHER END)



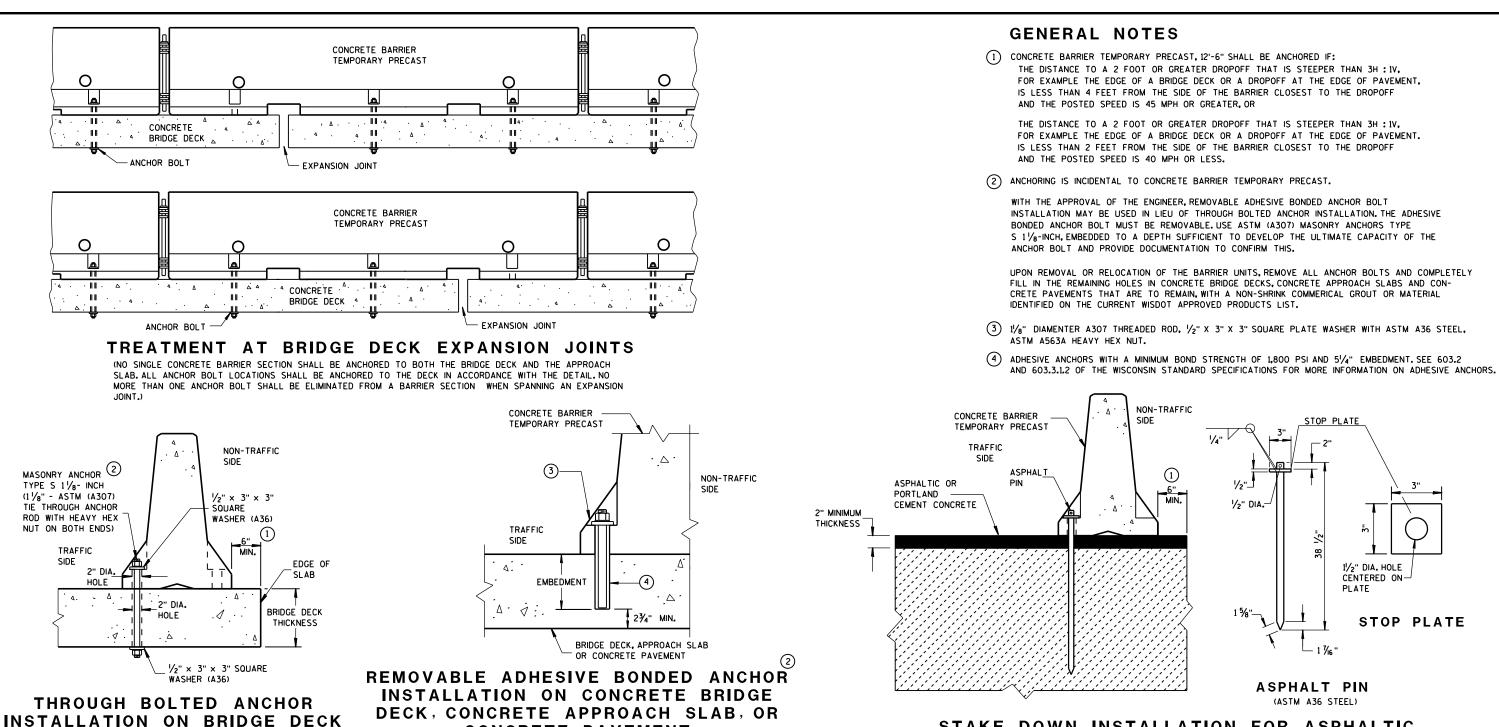


BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

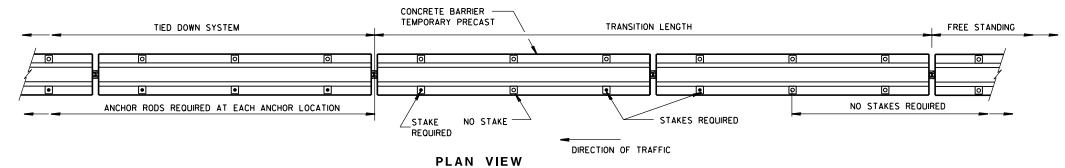
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

.D.D. 14 B 7-14c



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-

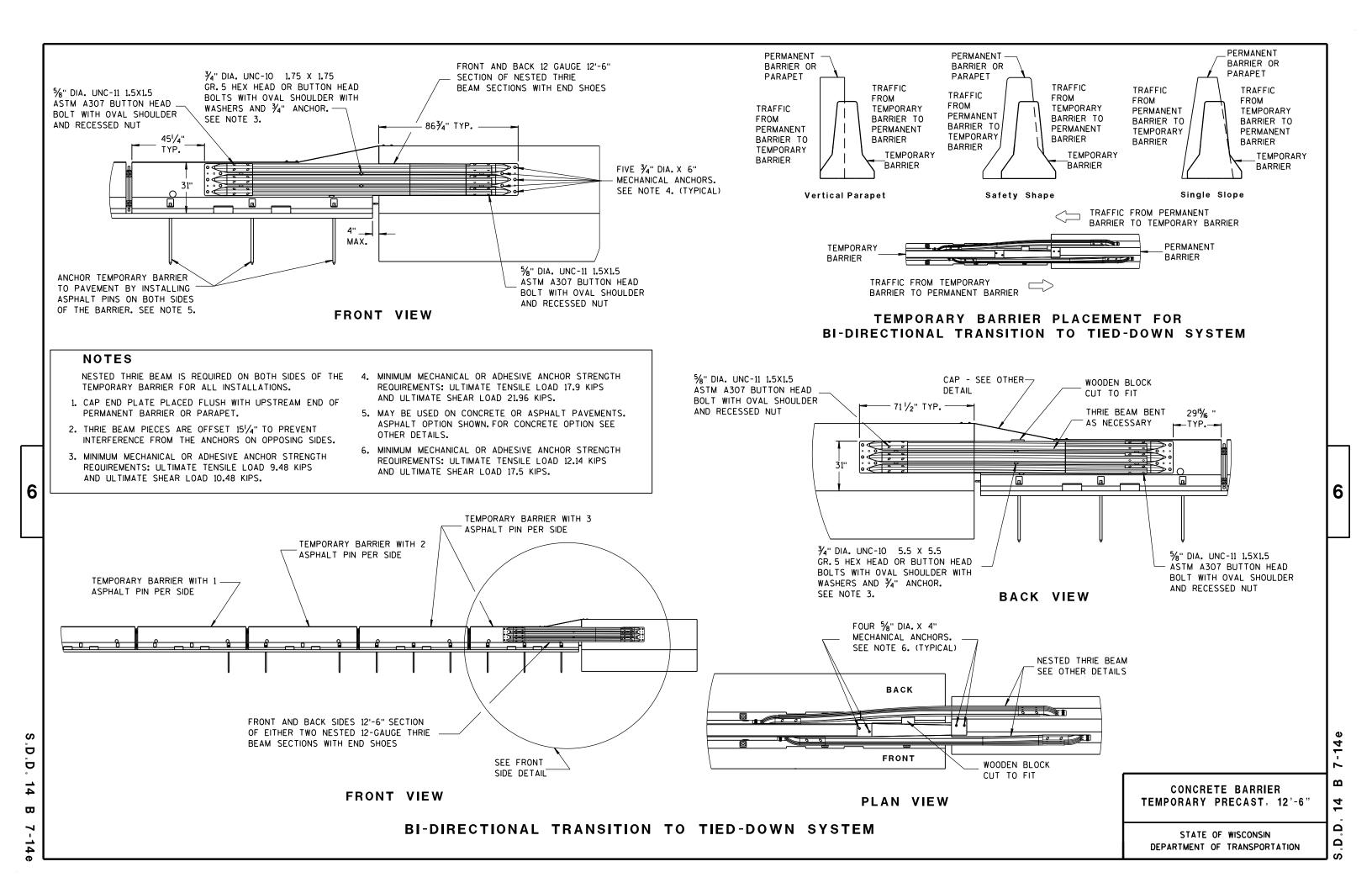
STOP PLATE

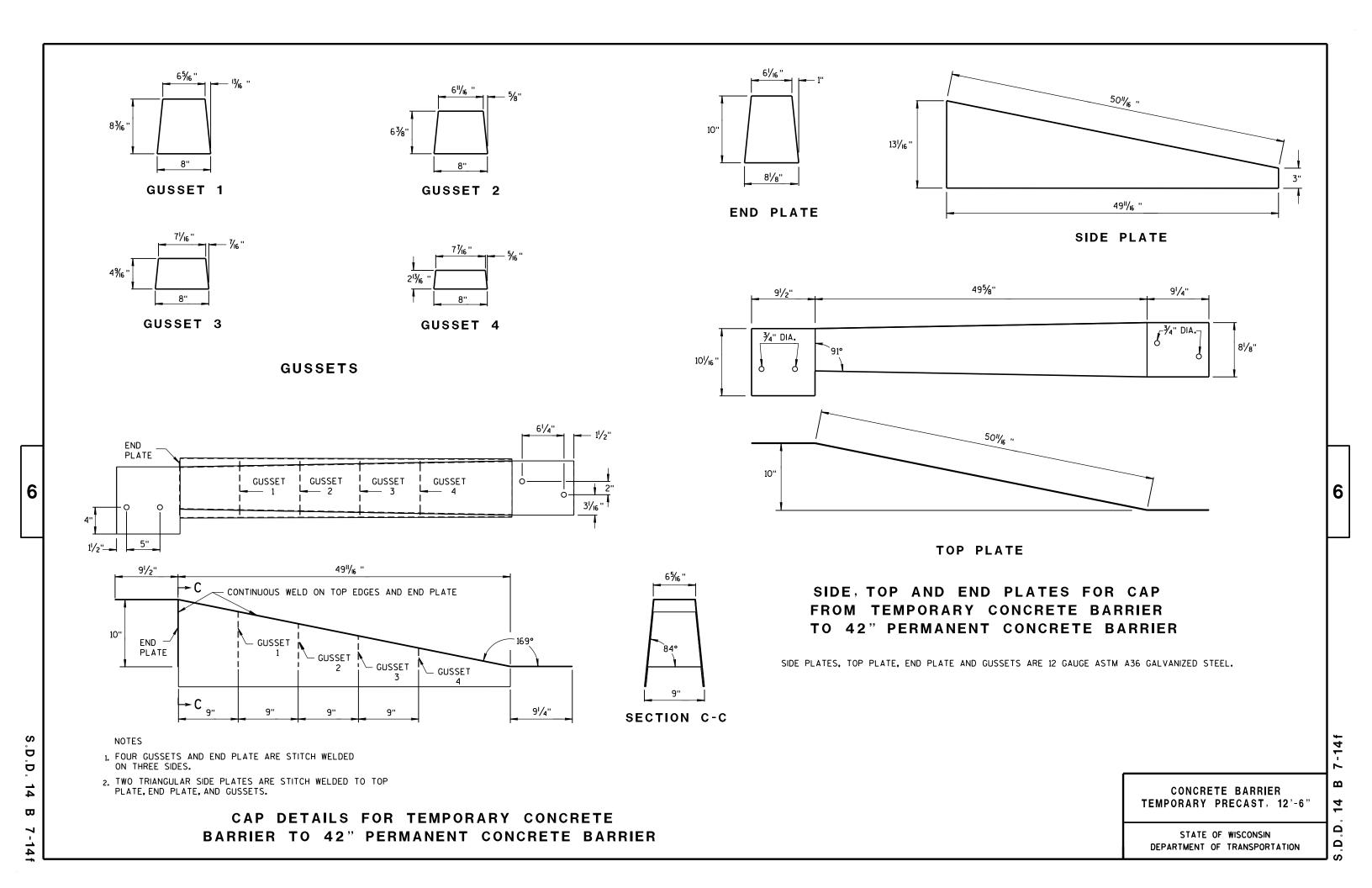
PLATE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6

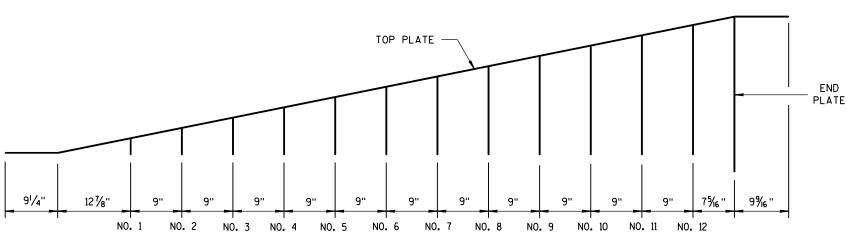
4 Δ Δ





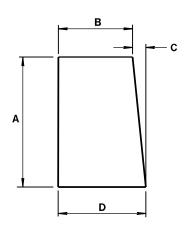
6

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"	⅓ "	81/16"				
5	101/8"	7"	1 1/16 "	81/16"				
6	11 ¹⁵ / ₁₆ ''	6 ¹³ // ₆ "	1 1/4"	81/16"				
7	13¾"	65/8"	1 1/6"	81/16 "				
8	15% "	6 ½ "	1 % "	81/16"				
9	173/8"	61/4"	1 13/16 "	81/16"				
10	193/6"	6½ ₆ "	1 15/16 "	81/16 "				
11	21"	5 1/8"	23/6"	8½ ₆ "				
12	22 ¹³ / ₁₆ "	5 ¹¹ / ₁₆ "	25/6"	8½ ₆ "				

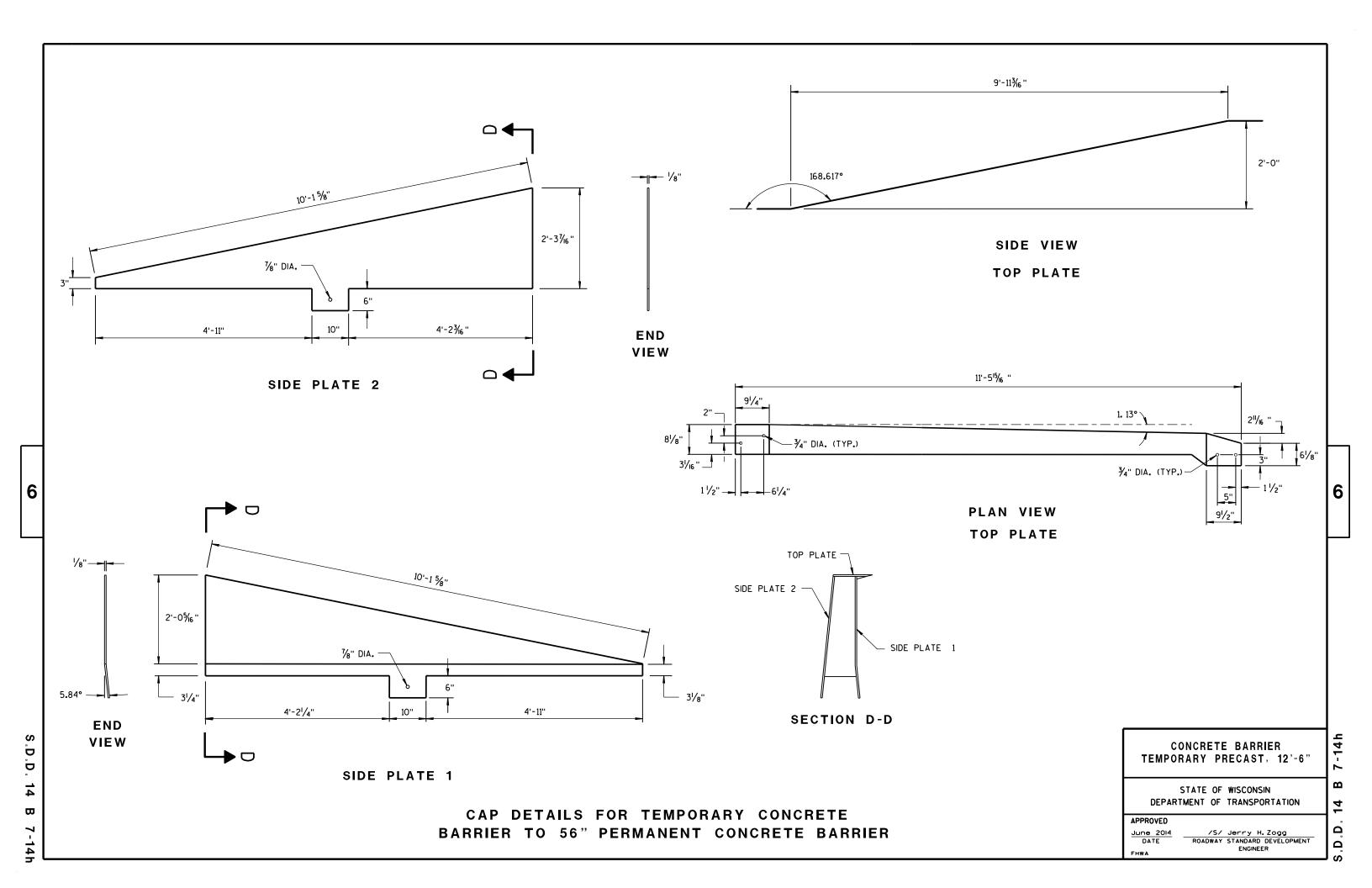
SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

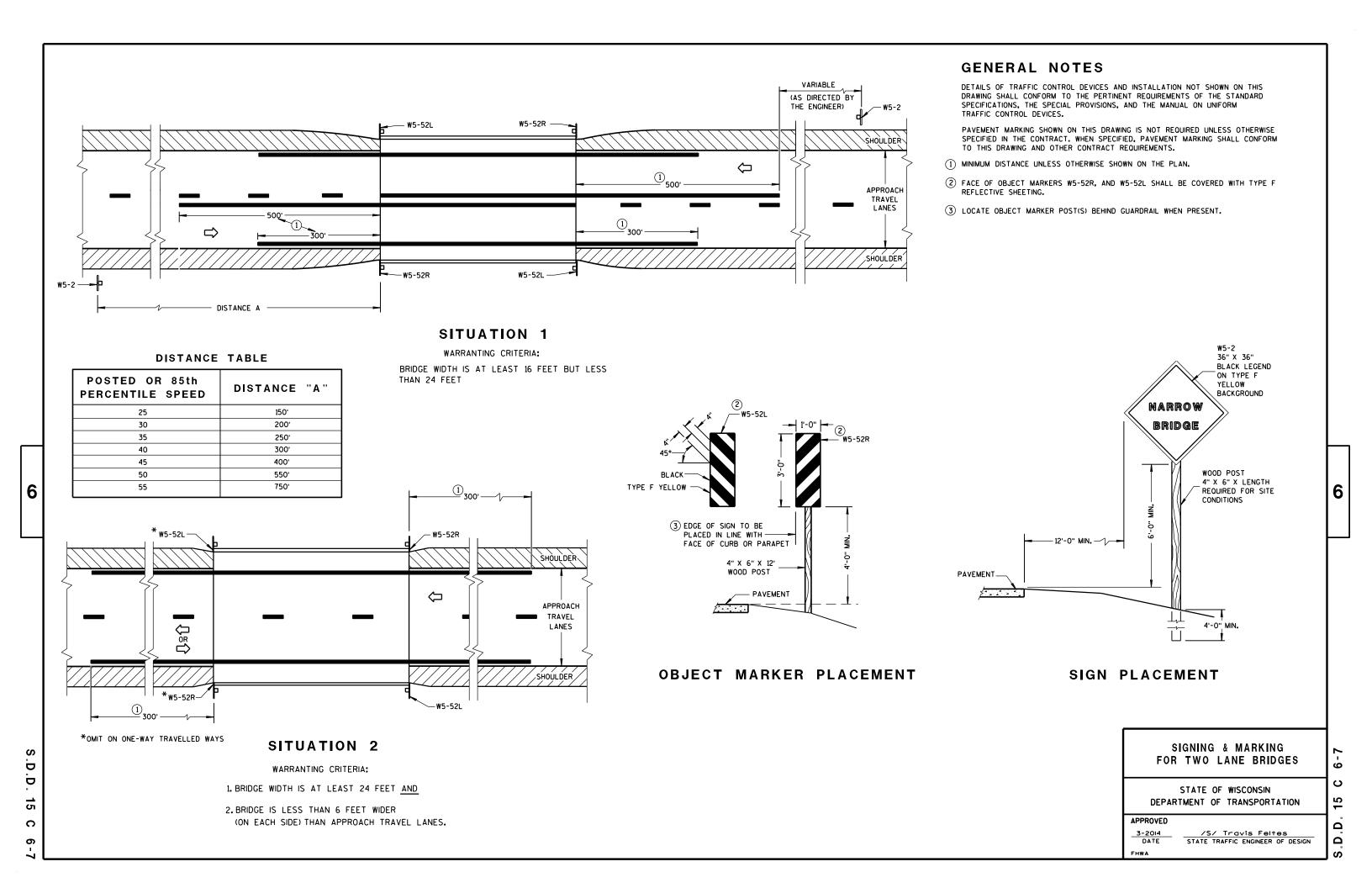
GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

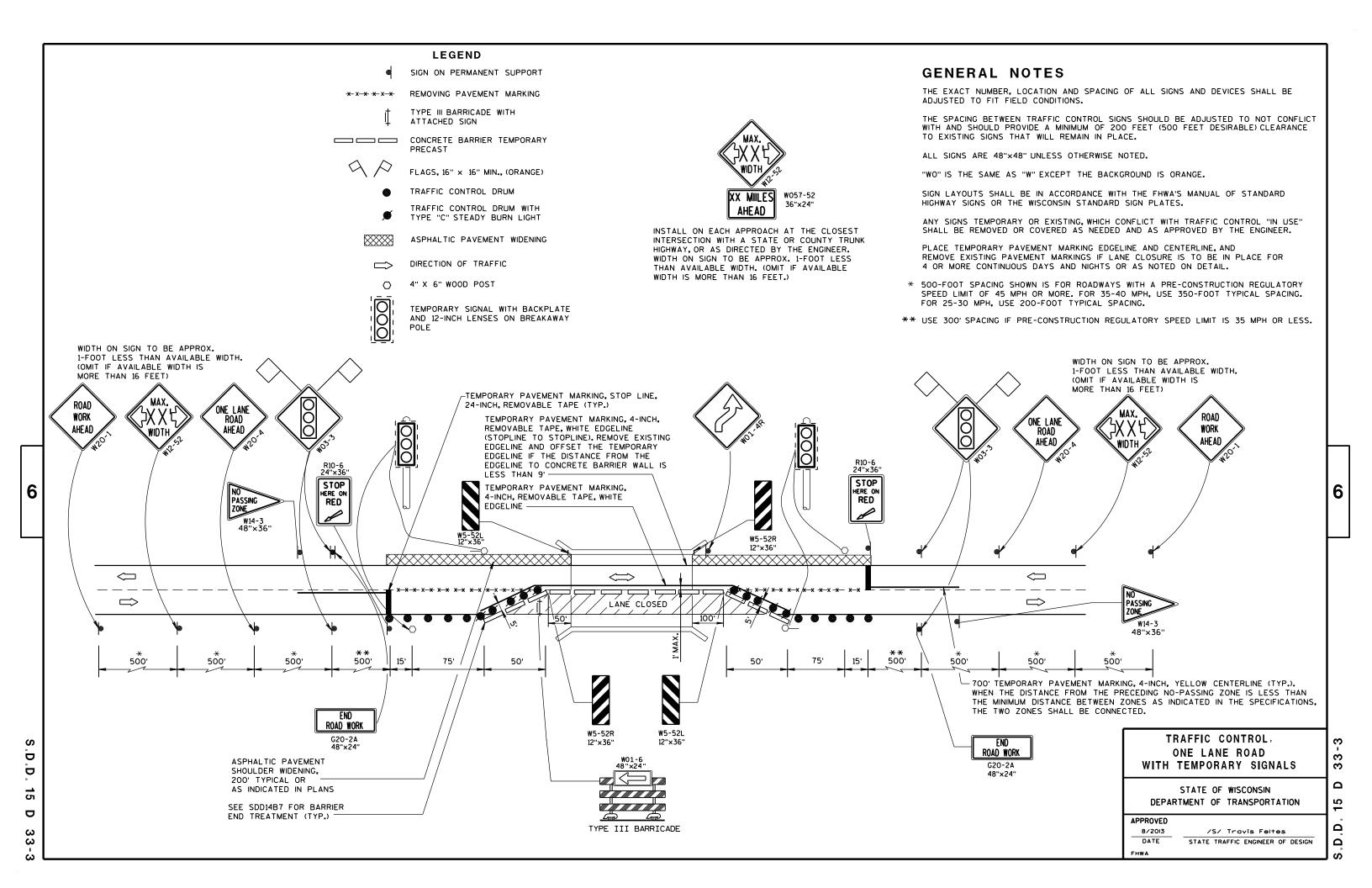
Ω Ω

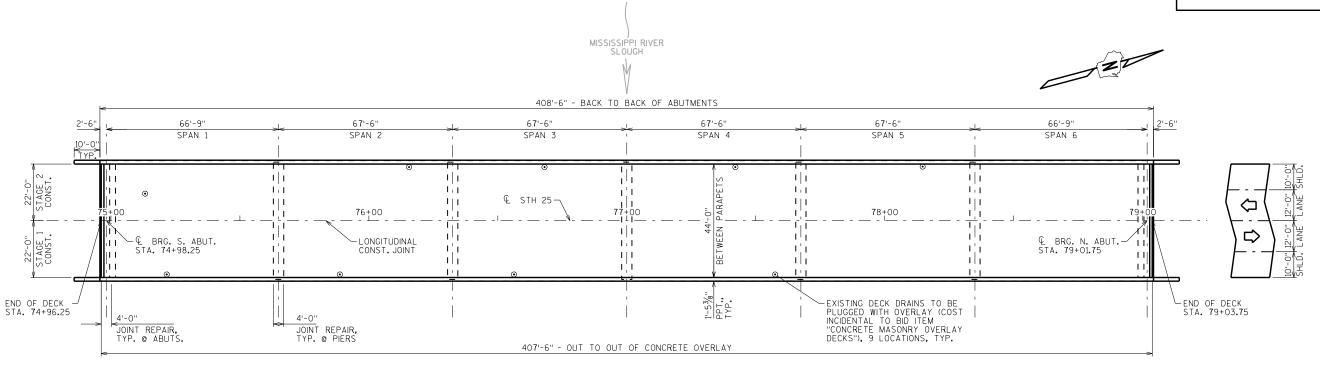












BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
	74+97 RT	DOT MONUMENT - TOP OF SE WING	680.84

TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
	502.0100	CONCRETE MASONRY BRIDGES	CY	76
	502.3100	EXPANSION DEVICE B-06-20	LS	1
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	2335
	502.5005	MASONRY ANCHORS TYPE L NO. 5 BARS	EACH	106
	505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	11960
	505.0904	BAR COUPLERS NO. 4	EACH	24
	505.0905	BAR COUPLERS NO. 5	EACH	84
	509.0301	PREPARATION DECKS TYPE 1	SY	200
	509.0302	PREPARATION DECKS TYPE 2	SY	100
	509.0500	CLEANING DECKS	SY	1993
	509.1000	JOINT REPAIR	SY	145
	509.1500	CONCRETE SURFACE REPAIR	SF	20
	509.2000	FULL-DEPTH DECK REPAIR	SY	1
$\Delta \Rightarrow$	509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	111
		NON-BID ITEMS		
		BRIDGE SEAT PROTECTION	LS	1

BID ITEM INCLUDES THE CONCRETE QUANTITY FOR EACH JOINT REPAIR.

BID ITEM INCLUDES CONCRETE FOR PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2, FULL-DEPTH DECK REPAIR, AND OVERLAY

⚠ BID ITEM INCLUDES AN AVERAGE CONCRETE OVERLAY THICKNESS OF 21/4".

DESIGN DATA

LIVE LOAD: INVENTORY RATING: HS-18 OPERATING RATING: HS-30 WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 190 KIPS

PLAN

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY - SLAB--f'c = 4,000 P.S.I.CONCRETE MASONRY - ALL OTHER -- f'c = 3,500 P.S.I.— fy = 60,000 P.S.I. BAR STEEL REINFORCEMENT, GRADE 60 — STRUCTURAL CARBON STEEL (W33X130 - 1955) — Fy = 33,000 P.S.I. STRUCTURAL CARBON STEEL (W33X130 - 2009) — Fy = 50,000 P.S.I. STRUCTURAL CARBON STEEL (ALL OTHER) — -Fy = 36,000 P.S.I.

TRAFFIC VOLUME

STH 25 A.D.T. = 5250 (2012) R.D.S. = 55 M.P.H.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK SURFACE AND THE FRONT FACE AND THE TOP OF THE PARAPET, INCLUDING PARAPETS ON ABUTMENT WINGS.

APPLY BRIDGE SEAT PROTECTION, AS PER SECTION 502.3.12 OF THE STANDARD SPECIFICATIONS, TO THE TOP SURFACES OF ALL ABUTMENTS AND PIERS BELOW EXPANSION DEVICES.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING WIDENING STRUCTURE PLANS (2009).

ANY EXCAVATION NECESSARY TO COMPLETE THE OVERLAY OR JOINT REPAIR AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM CONCRETE MASONRY OVERLAY DECKS".

CONTACT THE BUREAU OF STRUCTURES BEFORE PLACEMENT OF OVERLAY IF THE AVERAGE THICKNESS OF THE NEW OVERLAY WILL EXCEED THE AVERAGE OVERLAY SHOWN ON THE PLANS BY MORE THAN 1/2".

A MINIMUM OF 1-INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".

LONGITUDINAL CONSTRUCTION JOINT. SEAL WITH CRACK SEALER PER SECTION 502.3.13 OF THE STANDARD SPEC.

LIST OF DRAWINGS

- 1. CONCRETE OVERLAY
- 2. STAGING DETAILS 3. ABUTMENT DETAILS
- 4. ABUTMENT DETAILS
- 5. ABUT. EXPANSION JOINT DETAILS
- 6. PIER DETAILS
- 7. PIER DETAILS
- 8. PIER EXPANSION JOINT DETAILS
- 9. COVER PLATE DETAILS

STRUCTURE DESIGN CONTACTS: AARON BONK (608)261-0261 DAVID KIEKBUSCH (608)266-5084

NO. DATE BY Plans WISDOT Prepared By BUREAU OF STRUCTURES ACCEPTED William C. Drehu 5/2/13 CHIEF STRUCTURES DESIGN ENGINEER STRUCTURE B-06-20

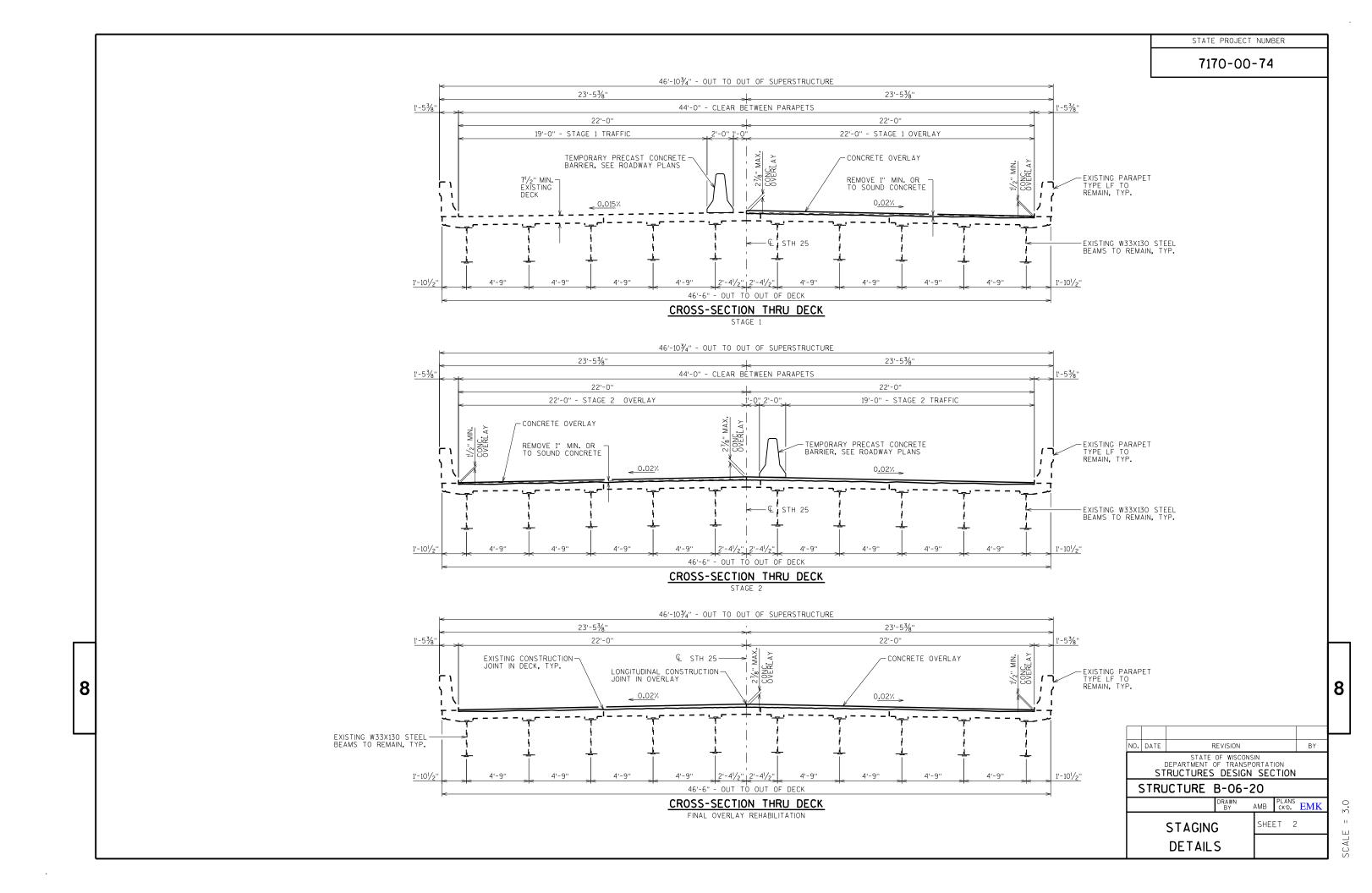
STH 25 OVER MISSISSIPPI RIVER SLOUGH BUFFALO DESIGN SPEC. REHABILITATION DESIGN DRAWN
AMB CK'D. EMK BY DESIGNED AMB CK'D. EMK

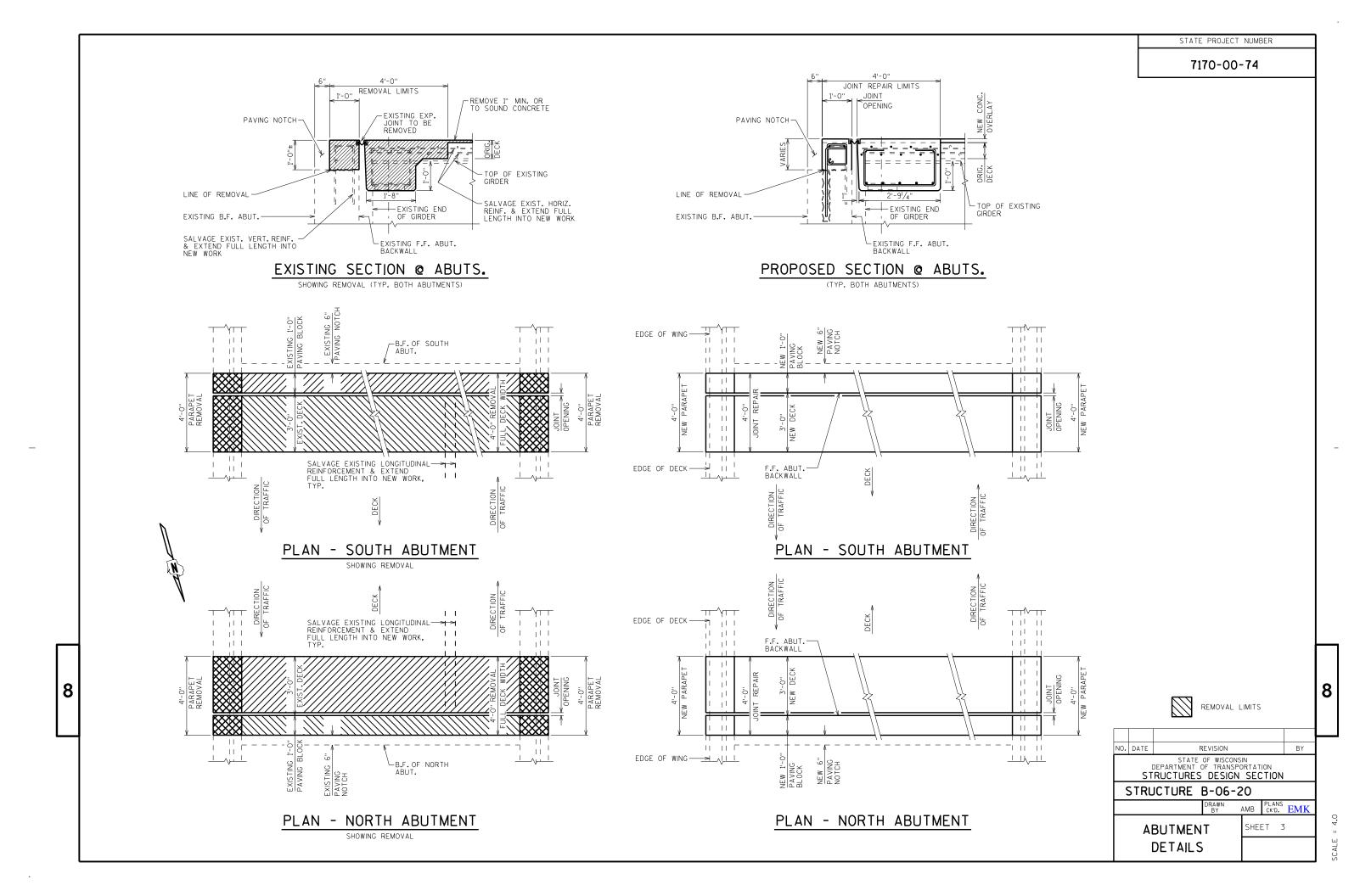
CONCRETE OVERLAY

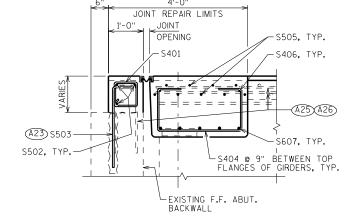
DATE: JANUARY 2013

SHEET 1 OF 9

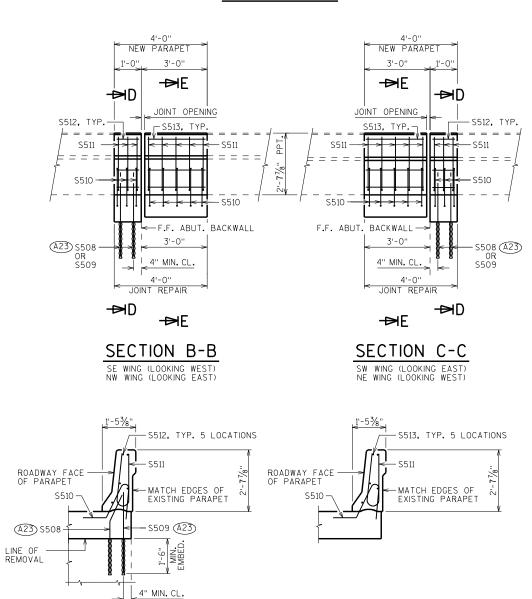
 $\frac{1}{8}$







SECTION A-A



SECTION E-E

SECTION D-D

SALVAGE ALL EXISTING HORIZONTAL PARAPET REINFORCEMENT AND EXTEND FULL LENGTH INTO NEW WORK.

NOTE: SEE SHEET 5 FOR BILL OF BARS AND BAR DETAILS.

- (A23) MASONRY ANCHORS TYPE L NO. 5 BARS, EMBED 1'-6" INTO EXIST. CONCRETE. EPOXY ANCHORED.
- (A25) SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.
- IF EXISTING BARS ARE SEVERELY CORRODED OR DAMAGED DURING CONCRETE REMOVAL, REPLACE WITH EPOXY ANCHORED NO. 5 L-SHAPED BARS WITH A 10" HORIZ. LEG. EMBED 7". WORK TO BE PAID UNDER BID ITEM "JOINT REPAIR".



44 SPA.@ 1'-0" MAX.

1'-0'' MIN. LAP. TYP

F.F. ABUT.

F.F. ABUT.-

MIN. LAP, TYP.

BACKWALL

BACKWALL

EDGE OF WING -

EDGE OF DECK

EDGE OF DECK-

→C

PARAPE

→C | | |

EDGE OF WING - ALL

→B —

ÐB

€ STH 25

BAR COUPLER,

S404 @ 9" BETWEEN TOP FLANGES

OF GIRDERS, TYP.

S404 @ 9" BETWEEN TOP FLANGES OF GIRDERS, TYP.

BAR COUPLER,

€ STH 25

44 SPA.@ 1'-0" MAX.

PLAN - NORTH ABUTMENT

 $A \bowtie$

 $A \bowtie$

PLAN - SOUTH ABUTMENT

₽A

11 11 11

1.11.11

 Π^{-11}

- S505, S406, OR S607

-S505, S406, OR S607

C₩

C₩

B₩

B₩

1 11 11

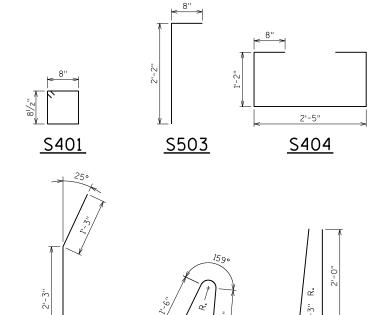
 $\pm 11 \pm 11$

1 11 11

BILL OF BARS NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	< PO2	NO. REQ'D.	LENGTH	&EMY	SERIES	LOCATION
S401	Х	90	3'-3"	Х		PAVING BLOCK - VERT.
S502	Х	48	6'-9"			PAVING BLOCK - HORIZ.
S503	Х	90	2'-9"	Х		PAVING BLOCK ANCHORS - VERT.
S404	Х	90	5'-9"	Х		ABUT. JOINT REPAIR - VERT.
S505	Х	36	23'-1"			ABUT. JOINT REPAIR - HORIZ.
S406	Х	8	23'-1"			ABUT. JOINT REPAIR - HORIZ.
S607	Х	90	4'-5"			ABUT. JOINT REPAIR - HORIZ.
S508	Х	8	3'-6"	Х		CONC. MASONRY ANCHORS - VERT.
S509	Х	8	4'-0"			CONC. MASONRY ANCHORS - VERT.
S510	Х	32	4'-2"	Х		PPT. JOINT REPAIR - VERT.
S511	Х	32	4'-10"	Х		PPT. JOINT REPAIR - VERT.
S512	Χ	20	0'-8"			PPT. JOINT REPAIR - HORIZ.
S513	Χ	20	2'-6"			PPT. JOINT REPAIR - HORIZ.
S414	Х	36	3'-9"			EXPANSION DEVICE - BETWEEN GIRDERS

NOTE: SALVAGE ALL EXISTING HORIZONTAL PARAPET REINFORCEMENT AND EXTEND FULL LENGTH INTO NEW WORK.

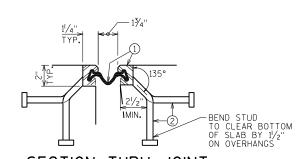


S510

S508

11/2"

ALTERNATE STRIP SEAL ANCHORS



SECTION THRU JOINT EXTERIOR GIRDER TO EDGE OF DECK & AT PARAPETS

GENERAL NOTES

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS, UNLESS MORE ARE REQUIRED FOR STAGED CONSTRUCTION, HANDLING, OR GALVANIZING REQUIREMENTS. IF USED, DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST & SWEEP.

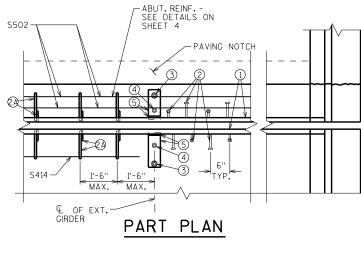
FABRICATOR SHALL PROVIDE MEANS OF KEEPING CALVANIZED EXTRUSIONS CLEAN & SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

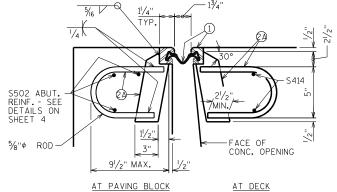
SANDBLAST PLATES, SUPPORTS & EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES & EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS & HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE B-06-20".

LEGEND

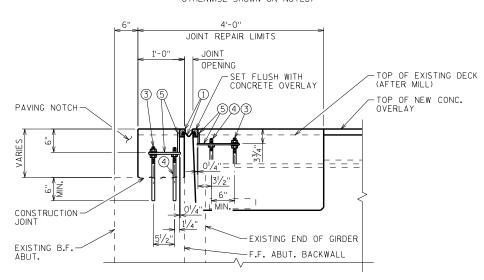
- 1) NEOPRENE STRIP SEAL (4- INCH) & STEEL EXTRUSIONS.
- 2 STUDS %" ϕ X 6%" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS & BEND AS SHOWN AFTER WELDING.
- (2A) 1/2" THICK ANCHOR PLATE WITH 5/8" PROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE, WELD ANCHOR PLATE TO NO.1 AT 1'-6" CENTERS BETWEEN GIRDERS.
- 34" THREADED ROD WITH 2 NUTS AND PLATE WASHERS. WELD THREADED ROD TO TOP FLANGE OR ATTACH BY BOLTING THRU FLANGE. ON ABUTMENT SIDE, GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN.
- (4) ¾4"φ THREADED ROD WITH NUT. TACK WELD NUT TO NO.5.
- FABRICATE SUPPORT FROM 3" X 1/2" BAR AS SHOWN OR EQUIVALENT. ONE PER GIRDER PER SIDE. SHOP OR FIELD WELD TO NO.1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 1/2" ϕ HOLE FOR NO.3 & 1" ϕ HOLE FOR NO.4. (5)





SECTION THRU JOINT

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GRDERS (INFORMATION SYM. ABOUT JOINT UNLESS OTHERWISE SHOWN OR NOTED)



SECTION THRU JOINT AT ABUTMENT

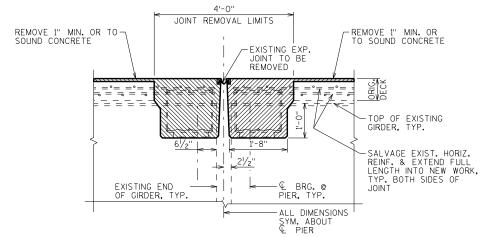
NORMAL TO & SUBSTRUCTURE

NO. DATE BY REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION STRUCTURE B-06-20 AMB CK'D. EMK ABUT. EXPANSION SHEET 5 JOINT DETAILS

S511

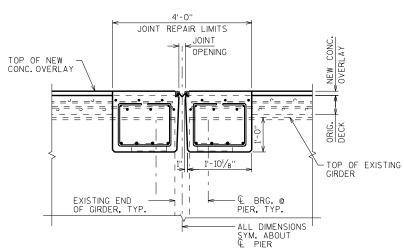
STATE PROJECT NUMBER

7170-00-74

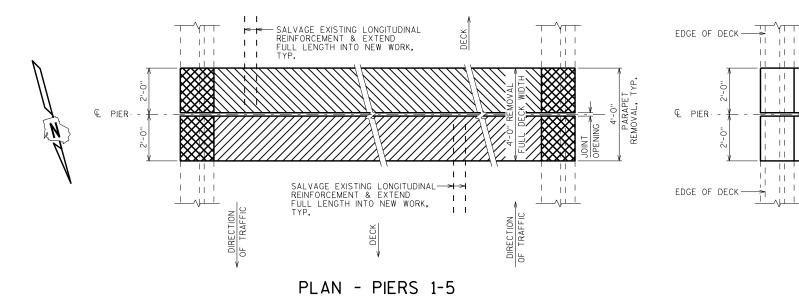


EXISTING SECTION @ PIERS

SHOWING REMOVAL (TYP. ALL PIERS)



PROPOSED SECTION @ PIERS



SHOWING REMOVAL

PLAN - PIERS 1-5

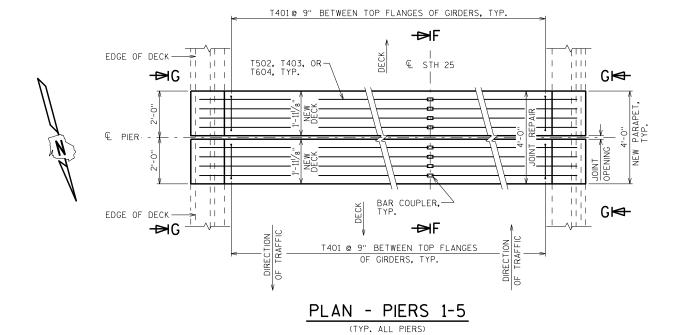


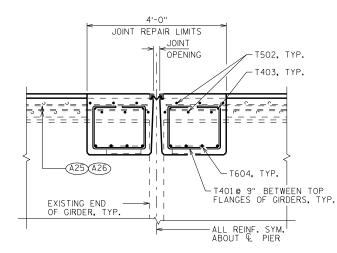
NO. DATE BY REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION STRUCTURE B-06-20 AMB PLANS EMK PIER SHEET 6 DETAILS

1 (111) j111

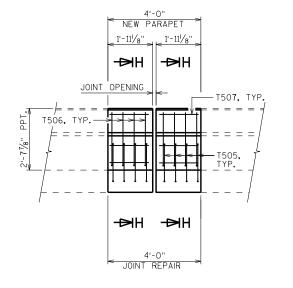
STATE PROJECT NUMBER

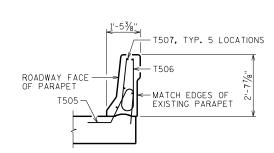
7170-00-74





SECTION F-F





NOTE: SALVAGE ALL EXISTING HORIZONTAL PARAPET REINFORCEMENT AND EXTEND FULL LENGTH INTO NEW WORK.

NOTE: SEE SHEET 8 FOR BILL OF BARS AND BAR DETAILS.

- SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.
- (A26) IF EXISTING BARS ARE SEVERELY CORRODED OR DAMAGED DURING CONCRETE REMOVAL, REPLACE WITH EPOXY ANCHORED NO. 5 L-SHAPED BARS WITH A 10" HORIZ, LEG. EMBED 7". WORK TO BE PAID UNDER BID ITEM "JOINT REPAIR".

NO. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-06-20

DRAWN
BY
AMB PLANS
CKD. EMK

PIER
DETAILS

SECTION G-G

WEST PPT. (LOOKING EAST) EAST PPT. (LOOKING WEST) SECTION H-H

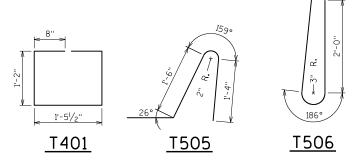
ALE = 4.0

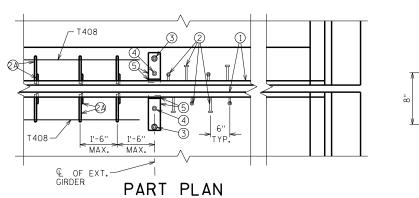


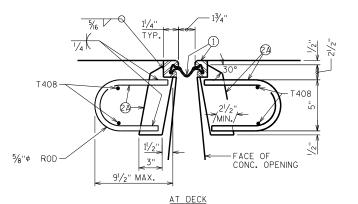
BILL OF BARS NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	C047	NO. REQ'D.	LENGTH	& A. A.	SERIES	LOCATION
T401	Х	450	4'-10''	Х		PIER JOINT REPAIR - VERT.
T502	Х	120	23'-1"			PIER JOINT REPAIR - HORIZ.
T403	Х	40	23'-1"			PIER JOINT REPAIR - HORIZ.
T604	Х	360	4'-5"			PIER JOINT REPAIR - HORIZ.
T505	Х	80	4'-2"	Х		PPT. JOINT REPAIR - VERT.
T506	Х	80	4'-10''	Х		PPT. JOINT REPAIR - VERT.
T507	Х	100	1'-7"			PPT. JOINT REPAIR - HORIZ.
T408	Х	180	3'-9"			EXPANSION DEVICE - BETWEEN GIRDERS

NOTE.
SALVAGE ALL EXISTING HORIZONTAL PARAPET REINFORCEMENT AND EXTEND FULL LENGTH INTO NEW WORK.

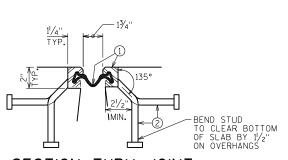






SECTION THRU JOINT

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS (INFORMATION SYM. ABOUT JOINT UNLESS OTHERWISE SHOWN OR NOTED)



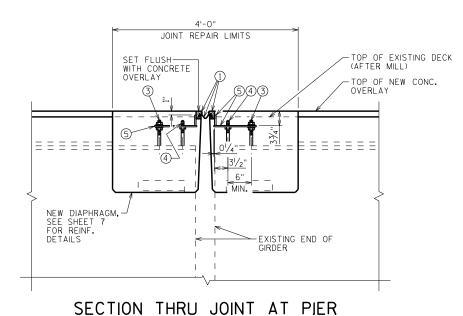
11/2''

SECTION THRU JOINT

ALTERNATE STRIP

SEAL ANCHORS

EXTERIOR GIRDER TO EDGE OF DECK & AT PARAPETS



NORMAL TO & SUBSTRUCTURE

GENERAL NOTES

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS, UNLESS MORE ARE REQUIRED FOR STAGED CONSTRUCTION, HANDLING, OR GALVANIZING REQUIREMENTS. IF USED, DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST & SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN & SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

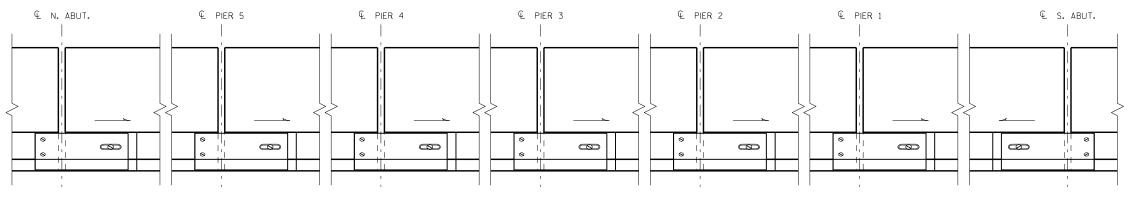
SANDBLAST PLATES, SUPPORTS & EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES & EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS & HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE B-06-20".

LEGEND

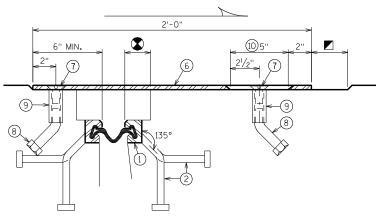
- (1) NEOPRENE STRIP SEAL (4- INCH) & STEEL EXTRUSIONS.
- 2 STUDS $^{5}\!\!/_{\!8}$ " $\!\!\!\!/$ X $^{6}\!\!\!\!/_{\!9}$ " LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS & BEND AS SHOWN AFTER WELDING.
- 3 3/4" THREADED ROD WITH 2 NUTS AND PLATE WASHERS. WELD THREADED ROD TO TOP FLANGE OR ATTACH BY BOLTING THRU FLANGE.
- 4) 3/4" THREADED ROD WITH NUT. TACK WELD NUT TO NO.5.
- (5) FABRICATE SUPPORT FROM 3" X 1/2" BAR AS SHOWN OR EQUIVALENT. ONE PER GIRDER PER SIDE. SHOP OR FIELD WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 11/2" HOLE FOR NO. 3 & 1" HOLE

NO. DATE BY REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION STRUCTURE B-06-20 AMB CK'D. EMK PIER EXPANSION SHEET 8 JOINT DETAILS

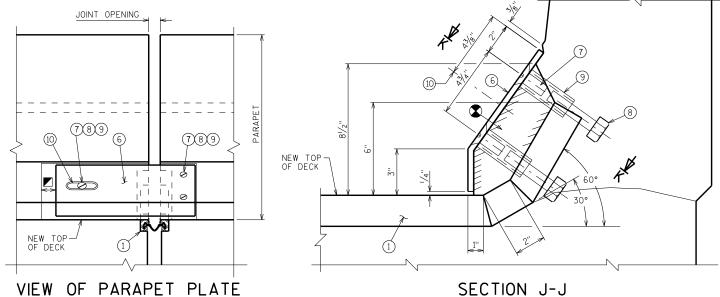


ELEVATION

EAST PARAPET SHOWN FROM ROADWAY. WEST PARAPET TO BE MIRRORED.



SECTION K-K





LEGEND

- 1 NEOPRENE STRIP SEAL (4- INCH) & STEEL
- 2 STUDS 5%" X 63%" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS & BEND AS SHOWN AFTER WELDING.
- $\ensuremath{\mbox{\ensuremath{\mbox{G}}}}$ Galvanized plate $\ensuremath{\mbox{\sc 3}}\ensuremath{\mbox{\sc 8}}\ensuremath{\mbox{\sc 9}}\ensuremath{\mbox{\sc 8}}\ensuremath{\mbox{\sc 9}}\ensuremath{\mbox{\sc 9}}\ensurem$
- 7) 3/4"\$ X 11/2" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS 1/16" BELOW PLATE
- (8) 3/4" \$\phi\$ X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
- (9) 3/4" \$\phi \times 2\frac{1}{4}\text{" GALVANIZED THREADED COUPLING.}
- 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.

GENERAL NOTES

1.1 1.1

1.1

1.1

1.1

1.1 1.1 1.1

1.1

1.1

1.1 -1

1.1 1.1

1.1

1.1

 \perp \perp

-1.1 \perp 1.1

-789

PLAN

SOUTHEAST ABUTMENT LOCATION SHOWN. SEE PARAPET ELEVATION

FOR OTHER LOCATIONS (DETAILS SIM.)

EDGE OF DECK

S. ABUT.

(EDGE OF DECK

PIERS 1-5 &
F.F. OF WING

@ N. ABUT.)

- F.F. OF WING © S. ABUT. (EDGE OF DECK © ALL OTHER

LOCATIONS)

789

Ă

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS, UNLESS MORE ARE REQUIRED FOR STAGED CONSTRUCTION, HANDLING, OR GALVANIZING REQUIREMENTS. IF USED, DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST & SWEEP.

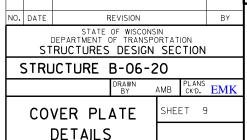
FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN & SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES, SUPPORTS & EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. *6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES & EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

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

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS & HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE B-06-20".

- BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.
- ightharpoonup Joint opening dim. Along skew plus last/2".



SOUTHEAST ABUTMENT LOCATION SHOWN. SEE PARAPET ELEVATION FOR OTHER LOCATIONS (DETAILS SIM.)

FROM ROADWAY

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov