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ORDER OF SHEETS

Section No. 1 Title Section No. 2 Typical Sections and Details Section No. Estimate of Quantities Section No. 3 Miscellaneous Quantities

Plan and Profile Section No. 5 Section No. 6 Standard Detail Drawings

Section No. 8 Structure Plans

TOTAL SHEETS = 54

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

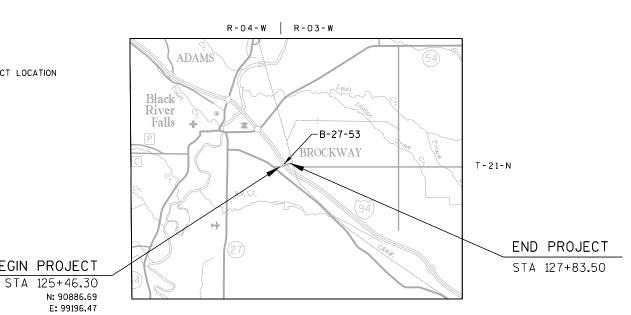
PLAN OF PROPOSED IMPROVEMENT

BLACK RIVER FALLS - TOMAH

CASTLE MOUND ROAD B-27-53

IH 94 JACKSON COUNTY

> STATE PROJECT NUMBER 1023-00-83



-PROJECT LOCATION IH-94 DESIGN DESIGNATION A.A.D.T. 2020 = 25.240 = 2,360 (YEAR 2020) = 58/42 = X.X% = XXXXXXX BEGIN PROJECT

A.A.D.T. 2040 = 27,900 D.H.V.

D.D. DESIGN SPEED = 70 mph

CONVENTIONAL SYMBOLS

PI AN

MARSH AREA

WOODED OR SHRUB AREA

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

PROFILE GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH GRADE ELEVATION CULVERT (Profile View) UTILITIES ELECTRIC

FIBER OPTIC SANITARY SEWER STORM SEWER TELEPHONE UTILITY PEDESTAL POWER POLE ₫ Ø TELEPHONE POLE

__ROCK__

_LABEL____

LAYOUT 1.0 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.045 MI.

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, JACKSON COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD 88 (2012).

ORIGINAL PLANS PREPARED BY SCONS" PROTITION ON AL EXPENSE 03/30/21 (Date) (Signature) STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY WisDOT Surveyor HNTB Designer JESSE LARSON, PE Project Manager Regional Examiner TARA WEISS, PE Regional Supervisor APPROVED FOR THE DEPARTMENT

FEDERAL PROJECT

CONTRACT

PROJECT

STATE PROJECT

1023-00-83

DATE:_ 03/30/21

Ε

Jesse Rarson

(Signature)

CONTACTS

WISDOT PROJECT MANAGER

JESSE LARSON, PE 718 W. CLAIREMONT AVENUE EAU CLAIRE, WI 54701 PHONE: (715) 491-1470 JESSE.LARSON@DOT.WI.GOV

WISDOT - COMMUNICATION LINE

JOHN MITTELSTADT 433 W. ST. PAUL AVE. STE. 300 MILWAUKEE, WI 53203-3007 PHONE: (608) 205-7859 JOHN.MITTELSTADT@DOT.WI.GOV

WISDOT STRUCT. MAINT. ENGINEER

GREGORY HAIG CELL: (715) 577-0646 GREGORY.HAIG@DOT.WI.GOV

WI DNR LIAISON

BRAD BETTHAUSER DNR SERVICE CENTER 473 GRIFFITH AVENUE WISCONSIN RAPIDS. WI 54494-7859 PHONE: (715) 213-9064 BRADLEY.BETTHAUSER@WISCONSIN.GOV

COUNTY SHERIFF

DUANE M. WALDERA BLACK RIVER FALLS, WI 54615 ADMINISTRATIVE: (715) 284-9009 NON-EMERG: (715) 284-5357 EMERGENCY: 911

HIGHWAY COMMISSIONER

JAY BOREK 119 HARRISON STREET BLACK RIVER FALLS. WI 54615 PHONE: (715) 284-0233 JAY.BOREK@CO.JACKSON.WI.US

STRUCTURE DESIGN

PAT CASHIN. PE 250 E. WISCONSIN AVENUE SUITE 2000 MILWAUKEE, WI 53202 PHONE: (414) 359-2300 PCASHIN@HNTB.COM

ROADWAY DESIGN

ANDREW ROSEMEYER, PE 10 W. MIFFLIN STREET SUITE 300 MADISON, WI 53703 PHONE: (608) 294-5015 AROSEMEYER@HNTB.COM

GENERAL NOTES

NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY UTILITY WHICH IS NOT A MEMBER OF DIGGERS HOTLINE MUST BE CONTACTED SEPERATELY.

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

TRAFFIC CONTROL LOCATIONS AS SHOWN IN THE PLAN ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

DO NOT REMOVE TREES OR SHRUBS UNLESS DESIGNATED FOR REMOVAL BY THE ENGINEER.

EROSION CONTROL DEVICE'S ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTORS ECIP AND BY THE ENGINEER. EROSION CONTROL DEVICE'S SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE DEVICE IS NO LONGER REQUIRED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY ANY OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS AT THE CONTRACTOR'S EXPENSE.

UTILITY CONTACTS

AT&T LEGACY

KENNETH M. NINE 110 N. MAIN STREET **CULVER, IN 46511** PHONE: (574) 842-8830 MOBILE PHONE: (574) 904-6336 KNINE@JMCEAINC.COM

ATC MANAGEMENT

DOUG VOSBERG 2489 RINDEN ROAD COTTAGE GROVE, WI 53527 PHONE: (608) 877-7650 DVOSBERG@ATCLLC.COM

CENTURYLINK

BRIAN STELPLUGH 333 NORTH FRONT STREET LA CROSSE, WI 54601 PHONE: (608) 615-4136 MOBILE PHONE: (608) 780-1238 BRIAN.STELPLUGH@LUMEN.COM

JACKSON ELECTRIC COOPERATIVE

ERIC STEIEN N6868 CO HWY F P.O. BOX 546 BLACK RIVER FALLS, WI 54615 (715) 284-5385 ESTEIEN@JACKELEC.COM

XCEL ENERGY

MITCHELL DIENGER 414 NICOLLET MALL 5TH FLOOR MINNEAPOLIS, MN 55401 PHONE: (612) 321-3109 MOBILE PHONE: (608) 386-2233 MITCHELL.A.DIENGER@XCELENERGY.COM

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES PROJECT OVERVIEW TYPICAL SECTIONS TRAFFIC CONTROL STAGED CONSTRUCTION **ALIGNMENTS**



ABBREVIATIONS

APRON END WALL **AGGREGATE**

AGG BAD BASE AGGREGATE DENSE

ВМ BENCH MARK

C&G **CURB AND GUTTER**

C/L CENTER OR CONSTRUCTION LINE CMCP CULVERT PIPE CORRUGATED METAL

CONC CONCRETE **CULVERT PIPE** CP

CPRC CULVERT PIPE REINFORCED CONCRETE

CONCRETE SURFACE DRAIN CSD

CY CUBIC-YARD

D DEGREE OF CURVE

DFI TA Δ DISCH DISCHARGE

EAT **ENERGY ABSORBING TERMINAL**

FIELD ENTRANCE FE HOT MIX ASPHALT HMA

INV INVFRT

LENGTH OF CURVE L LHF LEFT HAND FORWARD

LT LEFT MIN MINIMUM M/L MATCHLINE NB NORTHBOUND NC NORMAL CROWN PAVT PAVEMENT POINT OF CURVE PC

PCC POINT OF COMPOUND CURVE PRIVATE ENTRANCE PΕ Ы POINT OF INTERSECTION

PLE PERMANENT LIMITED EASMENT

PT POINT OF TANGENT R RADIUS OF CURVE REFERENCE LINE R/L RIGHT OF WAY R/W RC REVERSE CROWN

APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE **RCAEW**

REQD **REQUIRED**

RHF RIGHT HAND FORWARD RO RUN OFF LENGTH RAILROAD SPIKE RRSP RT RIGHT

SALV SALVAGED SAPBC

SALVAGED ASPHALTIC PAVEMENT BASE COARSE

SB SOUTHBOUND SDD

STANDARD DETAIL DRAWINGS SE SUPER ELEVATION

SF SQUARE FOOT

SSPRC STORM SEWER PIPE REINFORCED CONCRETE

STA STATION SY

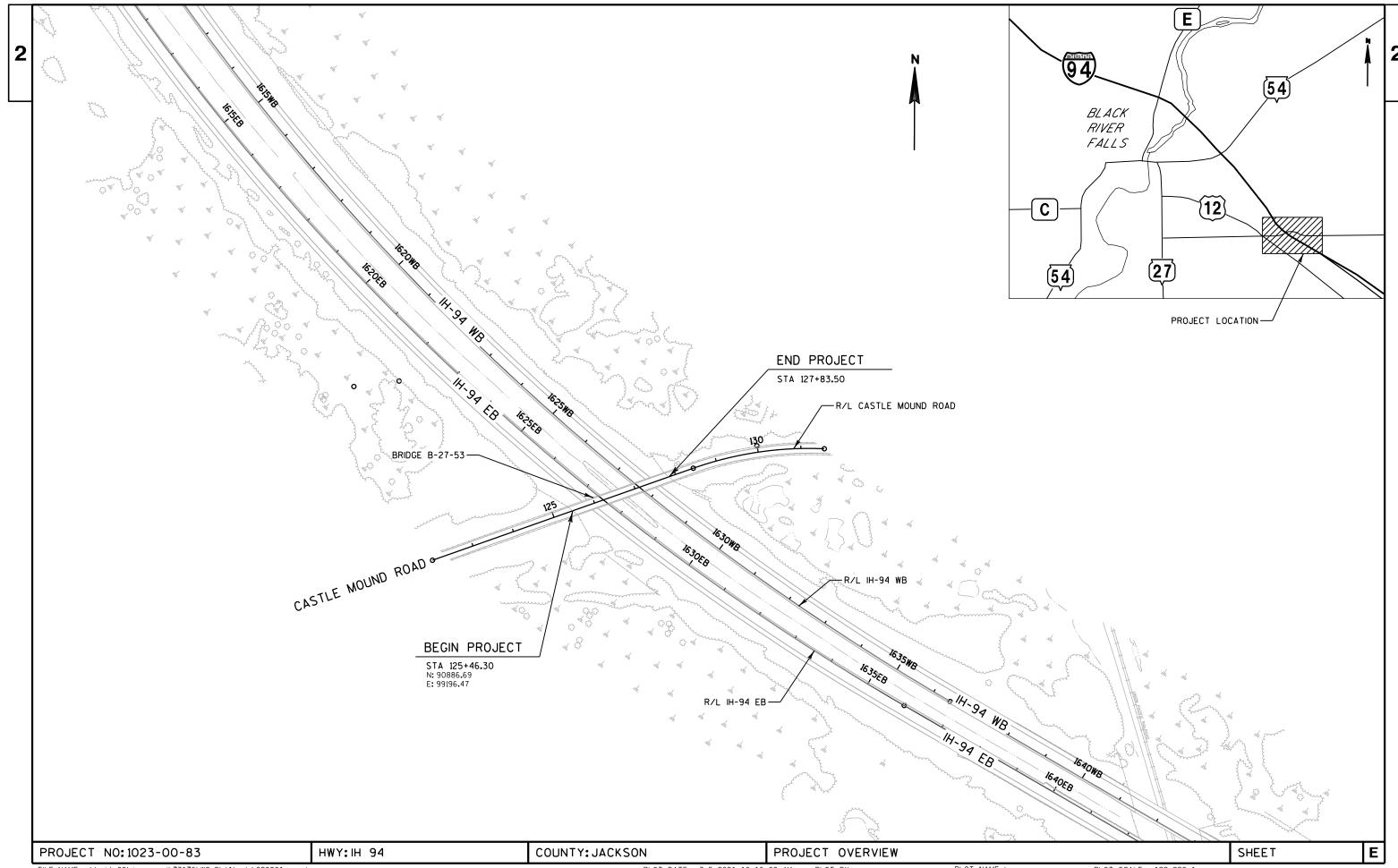
SQUARE YARD Т TANGENT LENGTH

TLE TEMPORARY LIMITED EASEMENT VCL VERTICAL CURVE LENGTH VPC POINT OF VERTICAL CURVE VPI POINT OF VERTICAL INTERSECTION

VPT POINT OF VERTICAL TANGENT

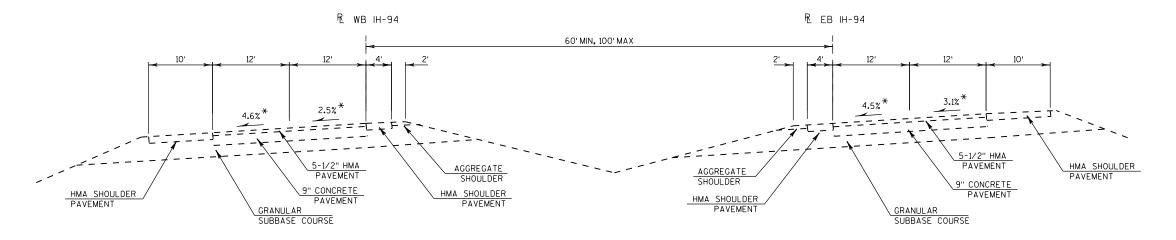
GENERAL NOTES HWY: IH 94 **COUNTY: JACKSON** SHEET: Ε PROJECT NO: 1023-00-83

FILE NAME: I:\56537\1517-75-71\t1\cds\020101 gn.ppt PLOT DATE: 5/4/2021 2:23:49 PM PLOT BY : HNTB Corp. PLOT NAME : 020101_gn1 PLOT SCALE: 1:1



2



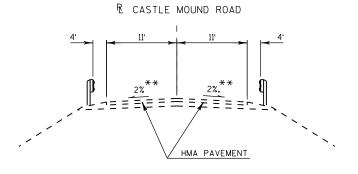


EXISTING TYPICAL SECTION

IH 94

APPLIES TO ENTIRE LIMITS OF PROJECT

* SEE NOTE 1



R CASTLE MOUND ROAD

NOTES

- 1) PER 2011 WISDOT PROJECT ID 1023-00-76 EXISTING SUPERELEVATION IS 3.3% ON THE ALIGNMENT PLAN HOWEVER CROSS SECTIONS SHOW THE CROSS SLOPES AS INDICATED ON THIS EXISTING TYPICAL SECTION.
- 2) SLOPE TRANSITIONS FROM 2% TO 1% AT THE APPROACH TO THE BRIDGE

EXISTING TYPICAL SECTION CASTLEMOUND ROAD

123+00.00 T0 125+46.30 & 127+83.50 T0 131+00.00 ** SEE NOTE 2

EXISTING TYPICAL SECTION

CASTLEMOUND ROAD

125+46.30 TO 127+83.50 OVER B-27-53

PROJECT NO: 1023-00-83 HWY: H 94 COUNTY: JACKSON EXISTING TYPICAL SECTIONS SHEET **E**

2

2

GENERAL NOTES FOR TRAFFIC CONTROL

1) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGN DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

2) CONFLICTING TRAFFIC SIGNS SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER. CONFLICTING SIGNS WILL BE COVERED USING THE APPROPRIATE STANDARD BID ITEM, TRAFFIC CONTROL COVERING SIGNS TYPE I OR TRAFFIC CONTROL COVERING SIGNS TYPE II.

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

4) ALL TYPE III BARRICADES SHALL BE 8'WIDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TWO TYPE A (LOW INTENSITY FLASHING) LIGHTS.

5) TURNING TRAFFIC CONTROL DEVICES WHEN NOT IN USE TO OBSURE THE MESSAGE IS NOT ALLOWED.

6) SIGNS AND DEVICES WILL BE IN CONFORMANCE WITH THE LATEST WISCONSIN MANUAL OF TRAFFIC CONTROL DEVICES (WMUTCD)

7) LANE CLOSURES WILL ONLY BE ALLOWED DURING TIMES SPECIFIED IN THE SPECIAL PROVISIONS.

8) SHOULDER CLOSURE SHALL FOLLOW WISDOT SDD 15D27 "TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY SPEEDS GREATER THAN 40 MPH"

HWY: IH 94

TRAFFIC CONTROL LEGEND

TRAFFIC CONTROL BARRICADE TYPE III
WITH LIGHTS TYPE A

TRAFFIC CONTROL BARRICADE TYPE III WITH LIGHTS TYPE A AND ATTACHED SIGN

TRAFFIC CONTROL DRUM

* TRAFFIC CONTROL DRUM WITH LIGHT TYPE C

¥ TRAFFIC CONTROL ARROW BOARD

TRAFFIC CONTROL SIGN(S) ON PERMANENT SUPPORT

F TRAFFIC CONTROL SIGN(S) ON TEMPORARY SUPPORT

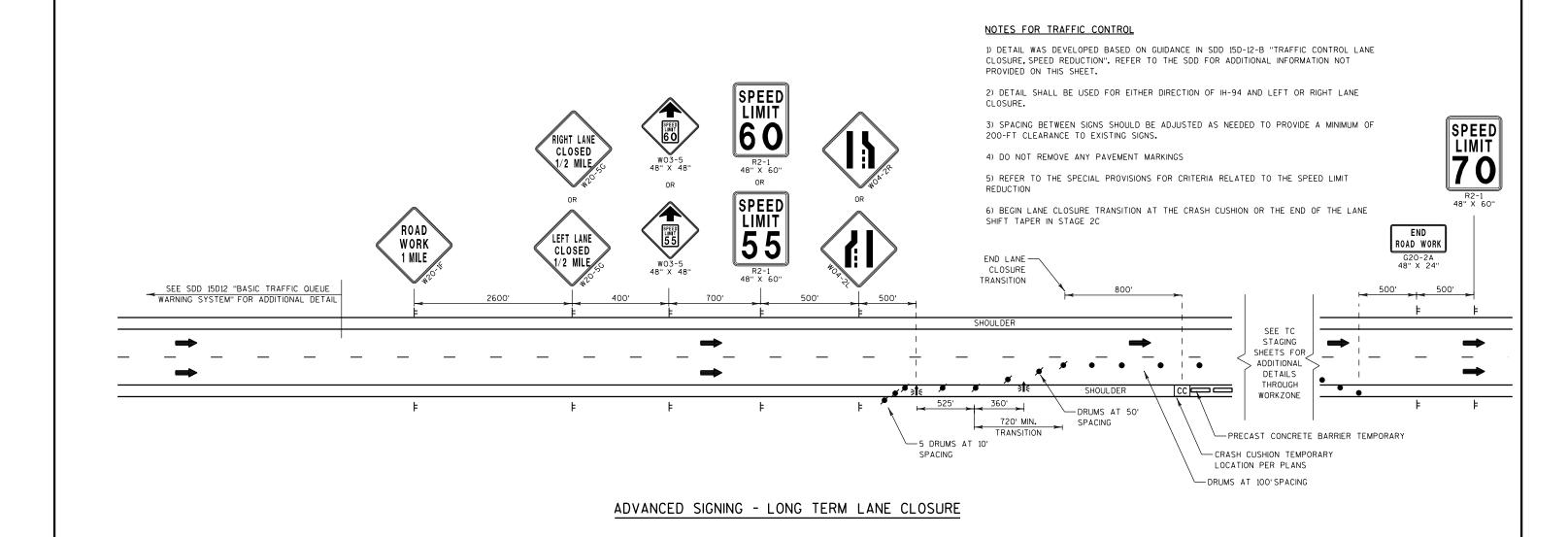
TRAFFIC CONTROL SIGNS
PORTABLE CHANGABLE MESSAGE

CRASH CUSHION TEMPORARY

─── CONCRETE BARRIER TEMPORARY PRECAST

→ TRAFFIC FLOW ARROW

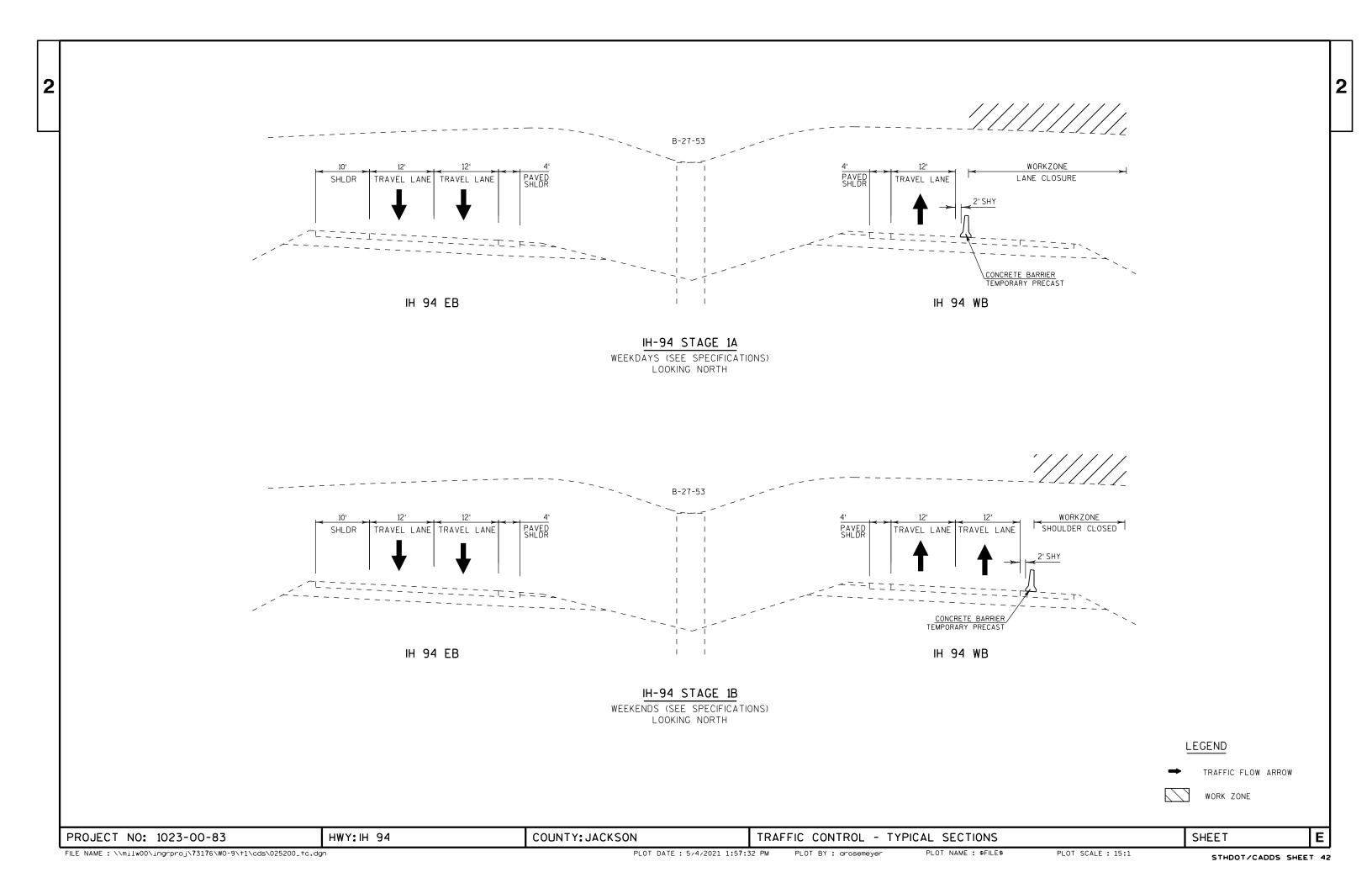
WORK ZONE

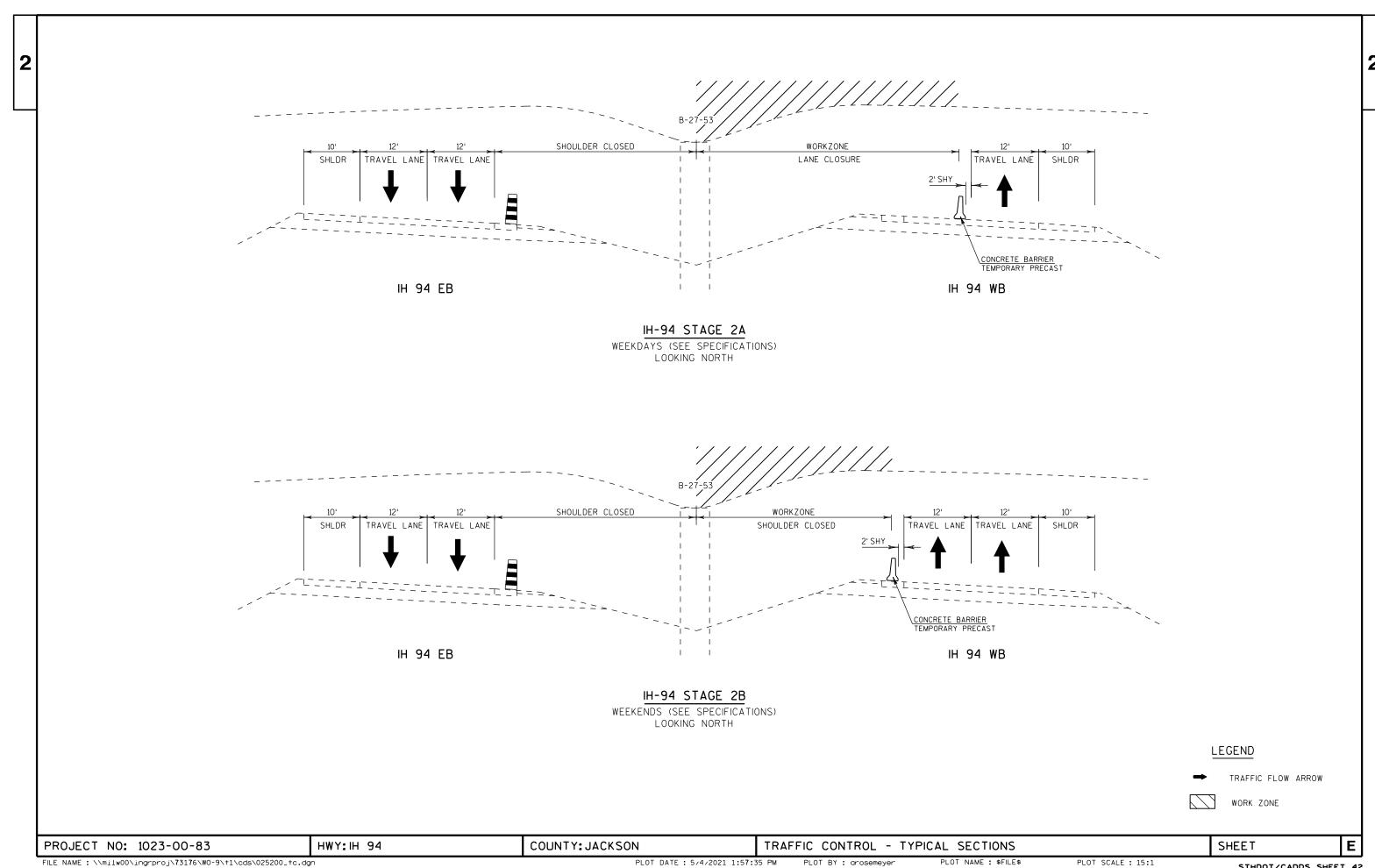


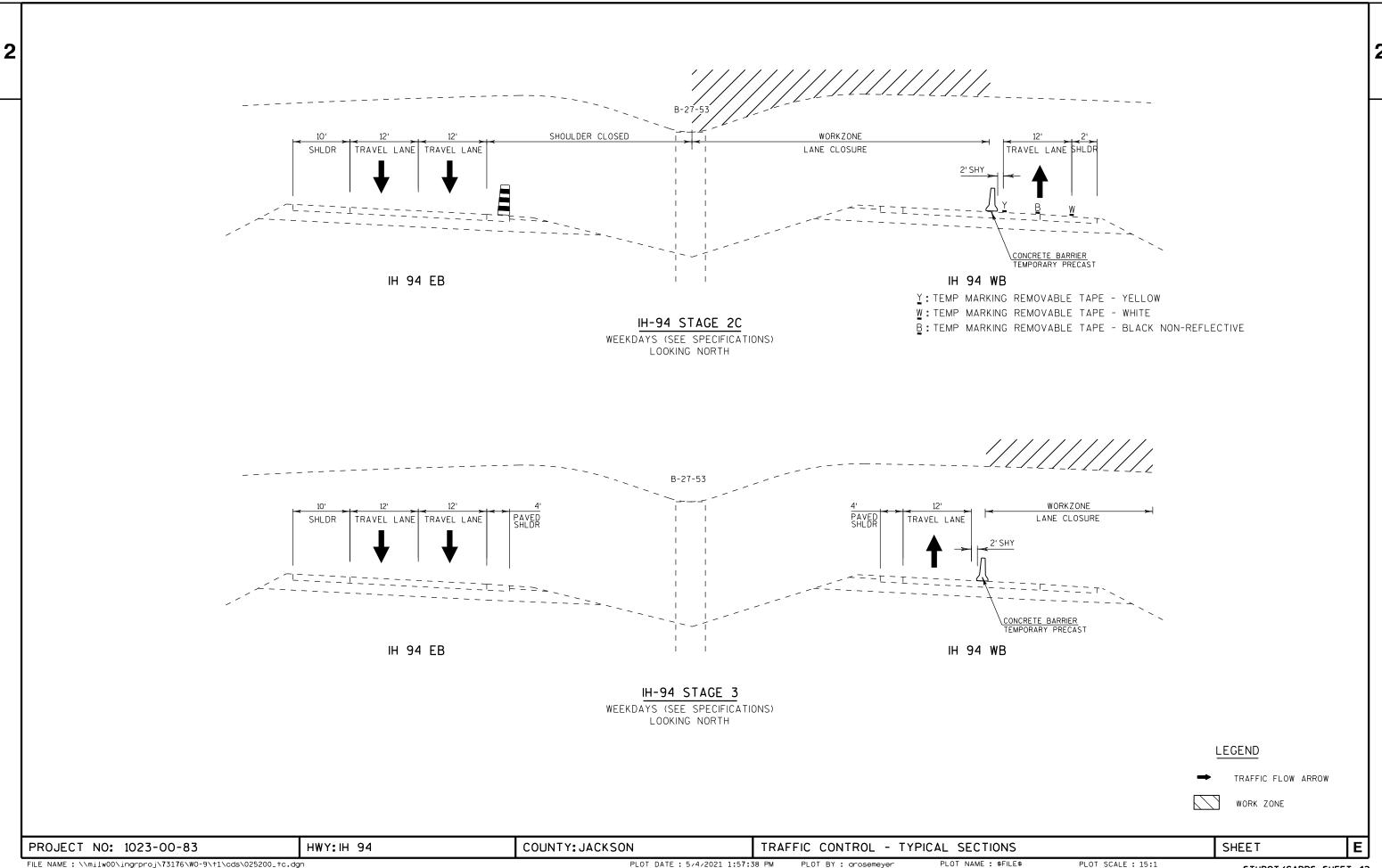
PROJECT NO: 1023-00-83

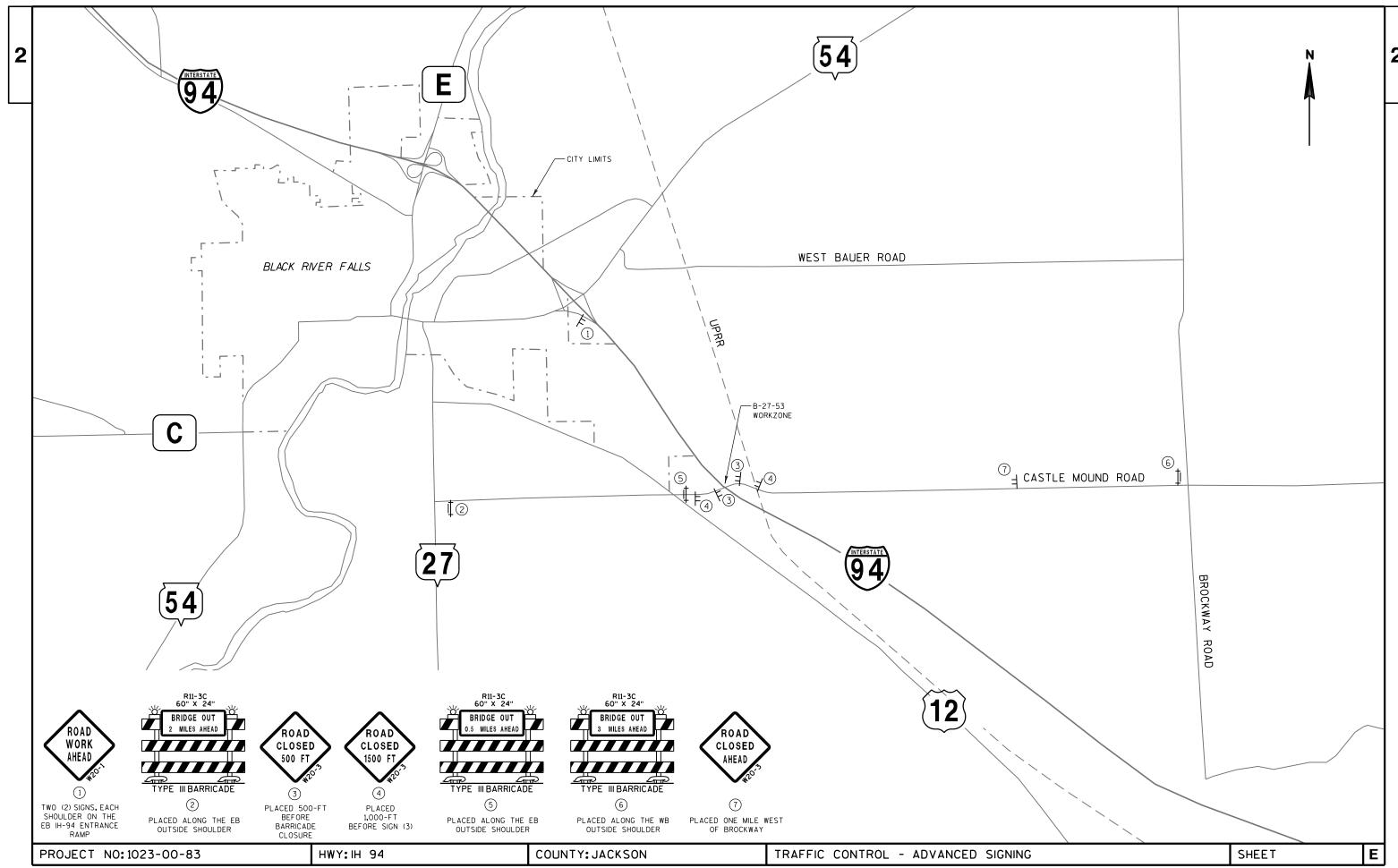
COUNTY: JACKSON

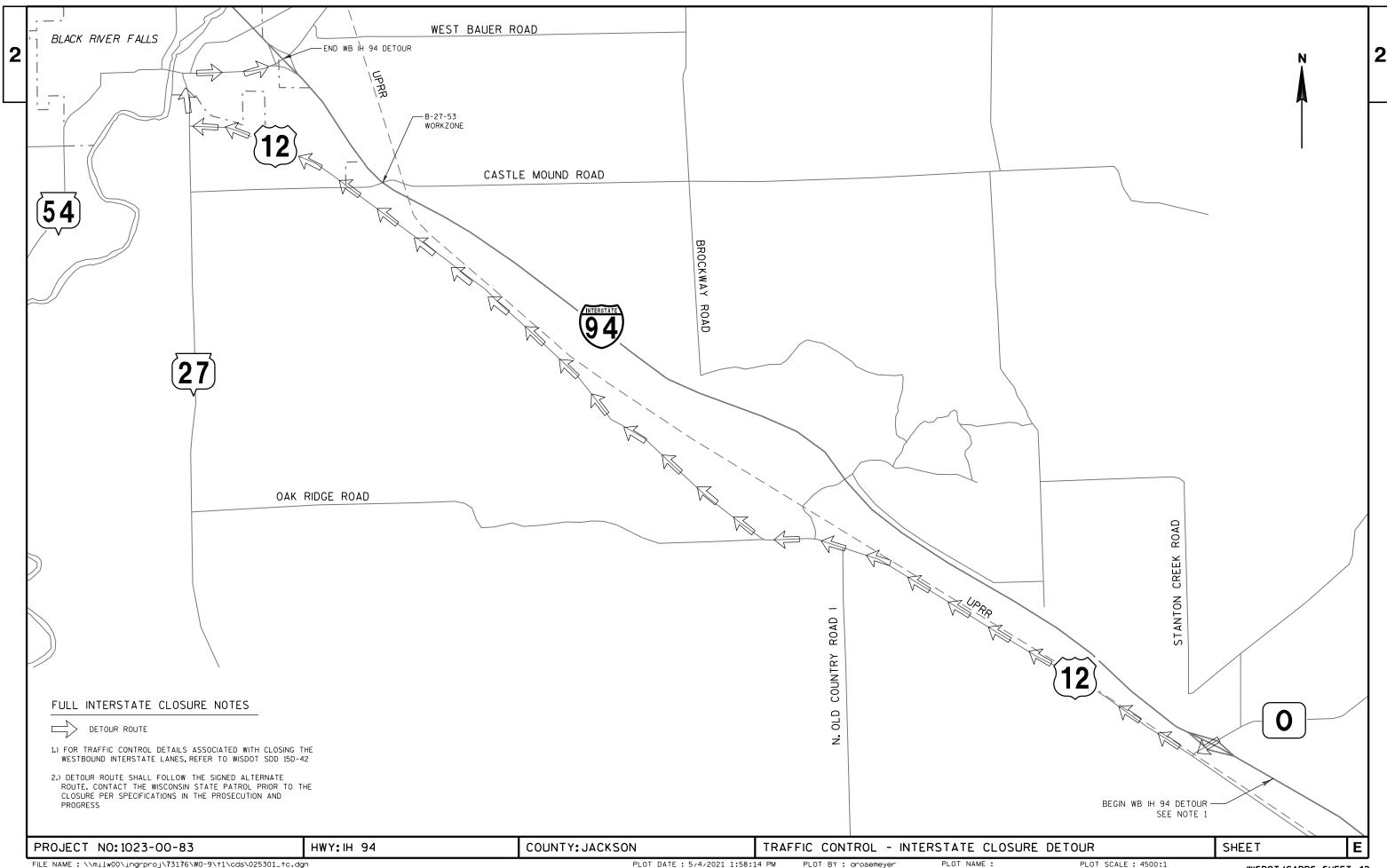
SHEET

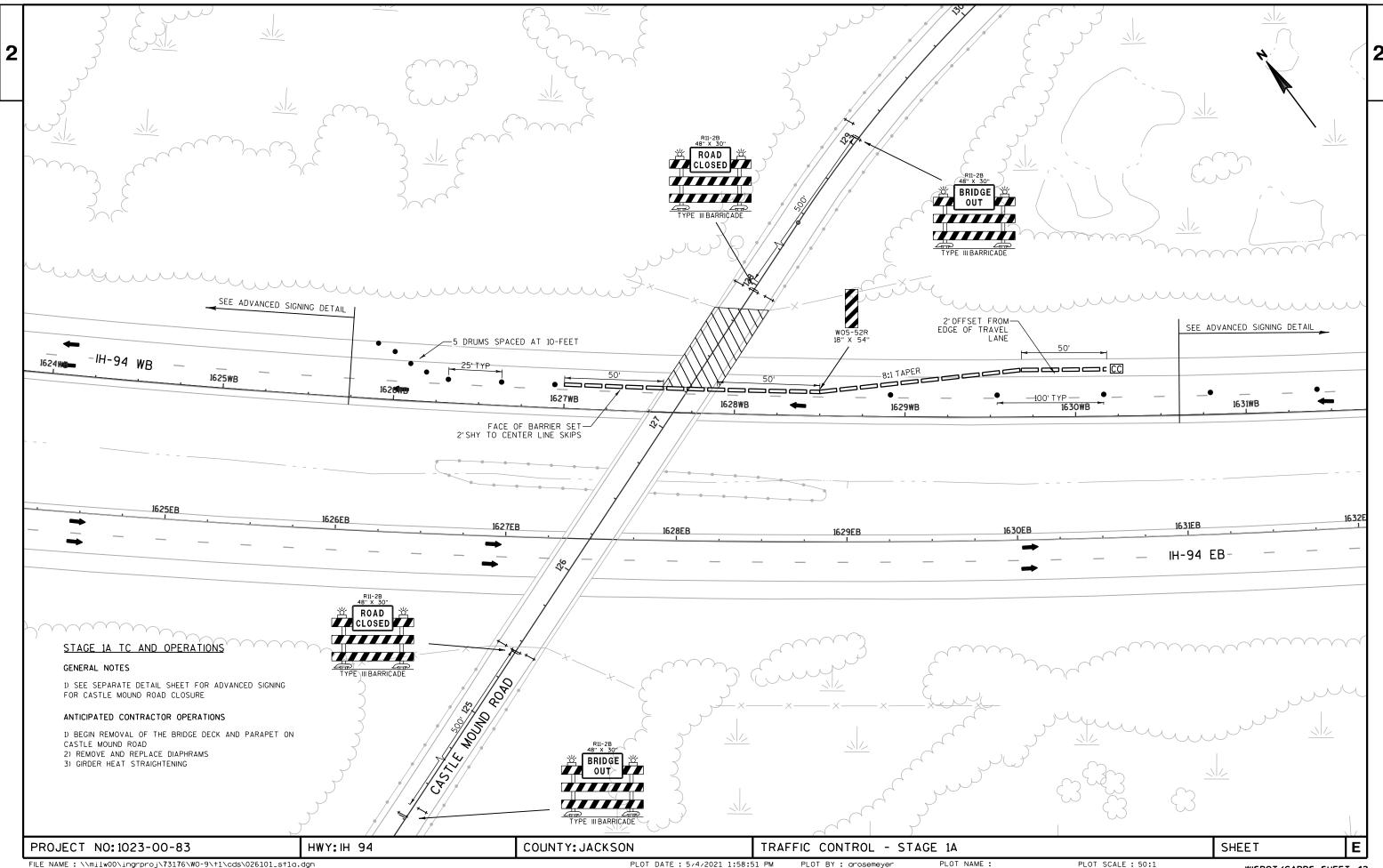


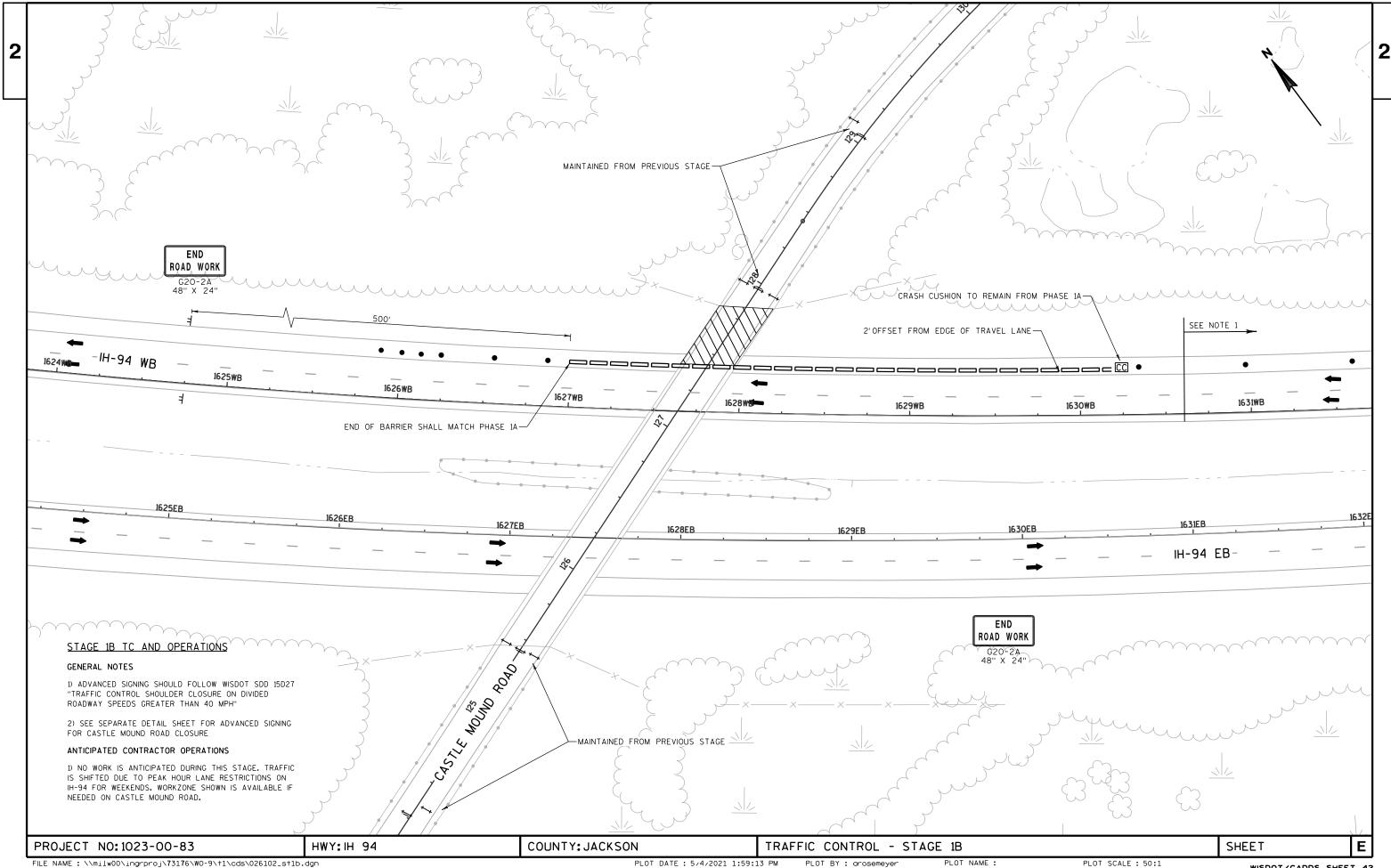


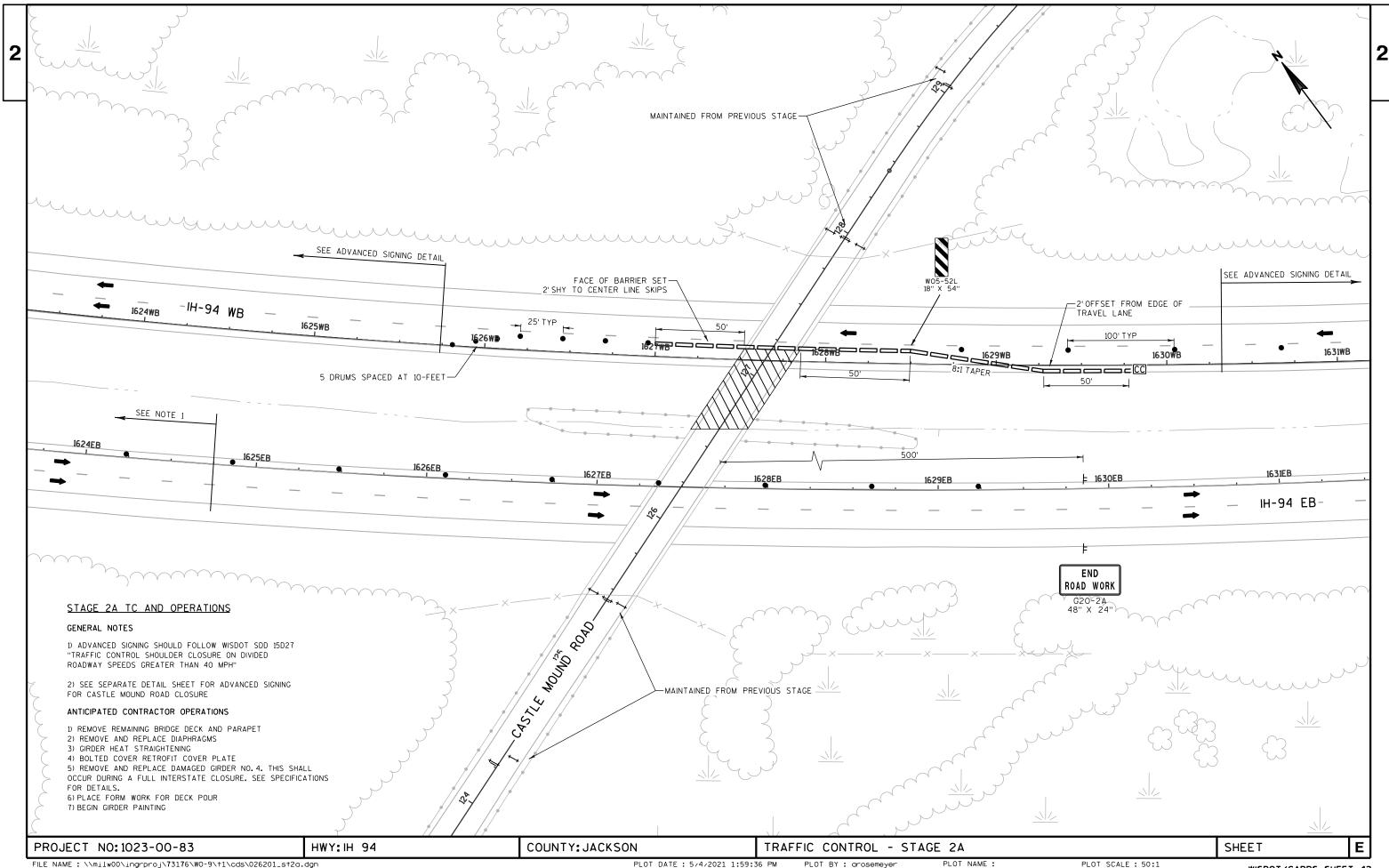


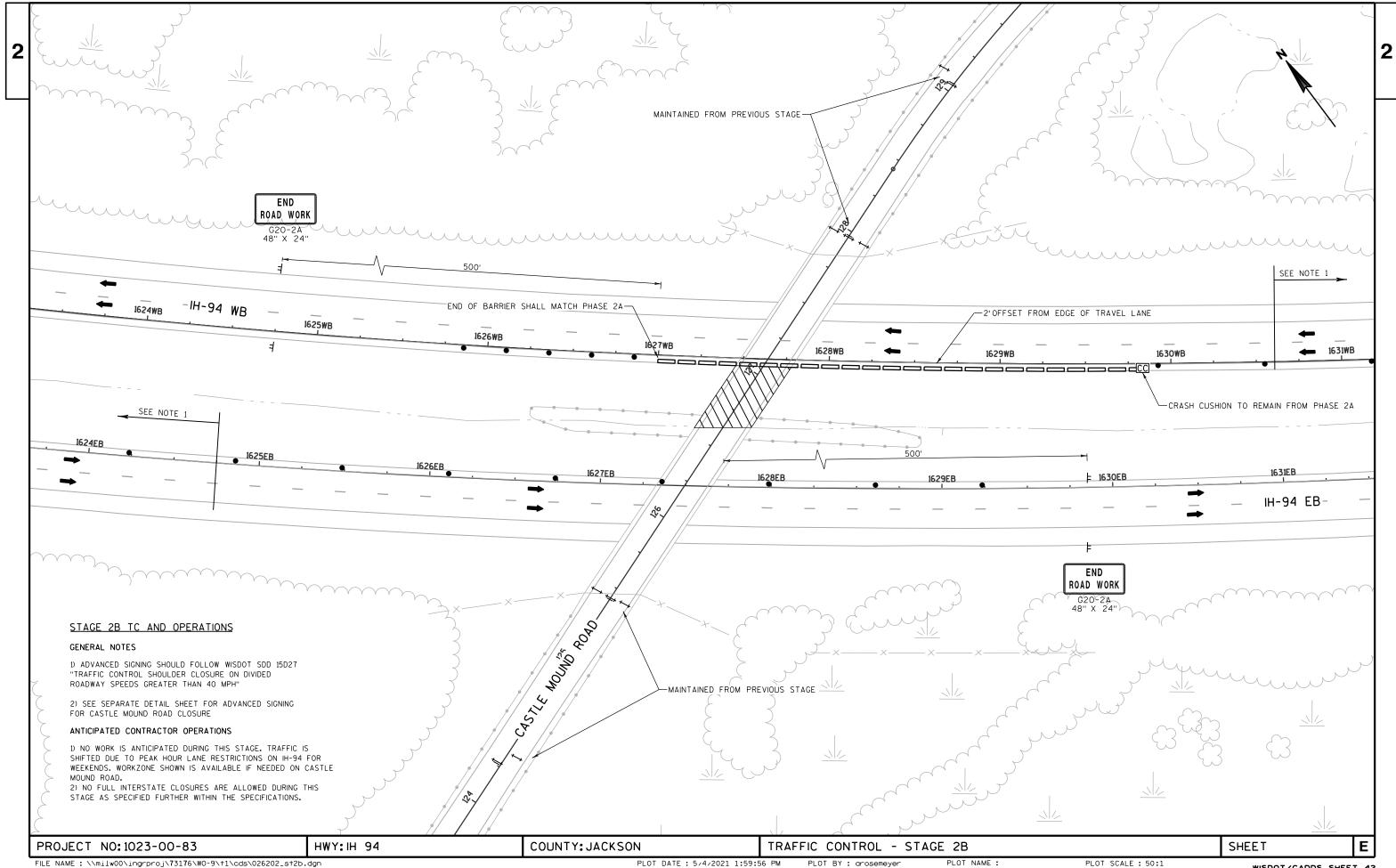


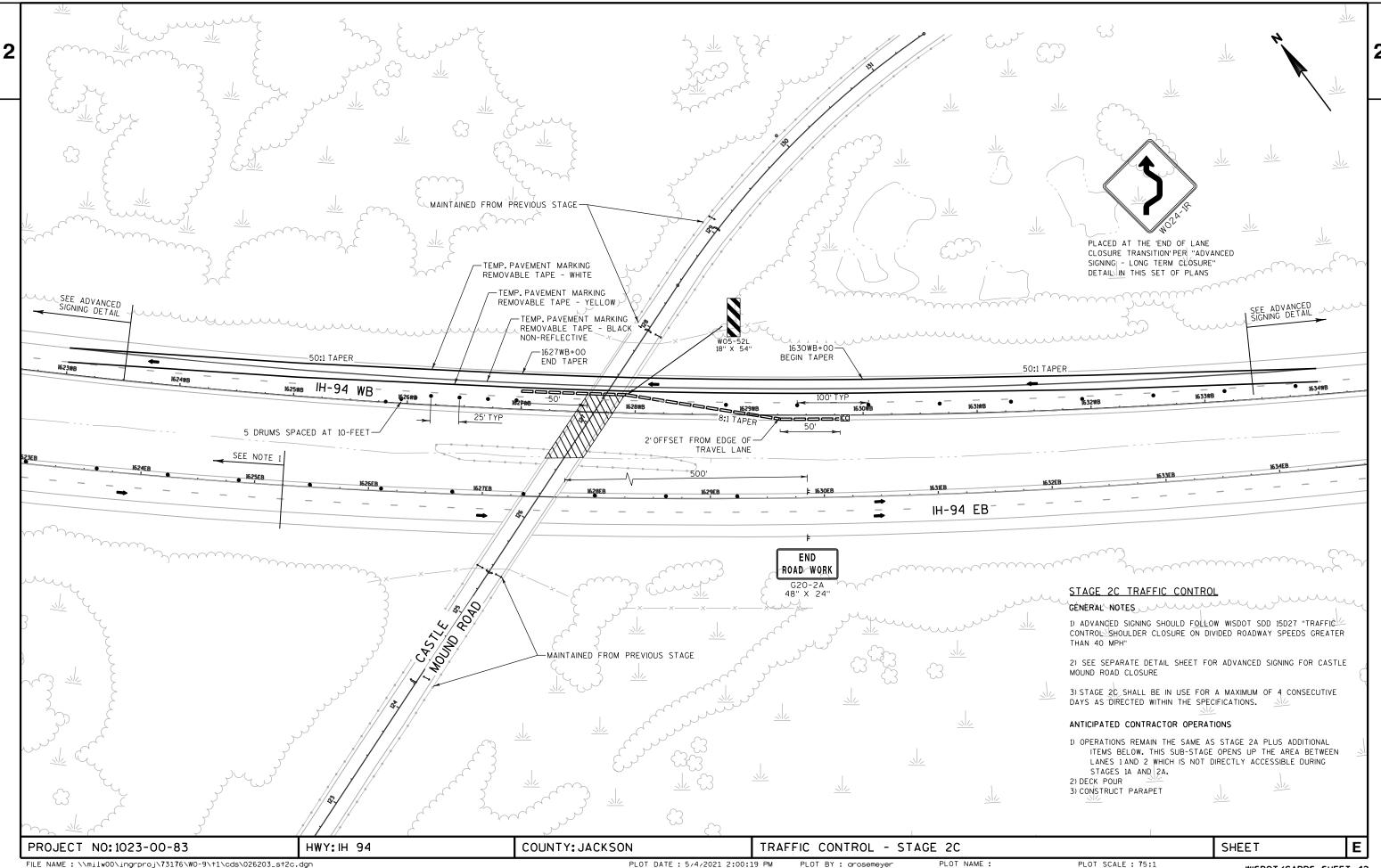


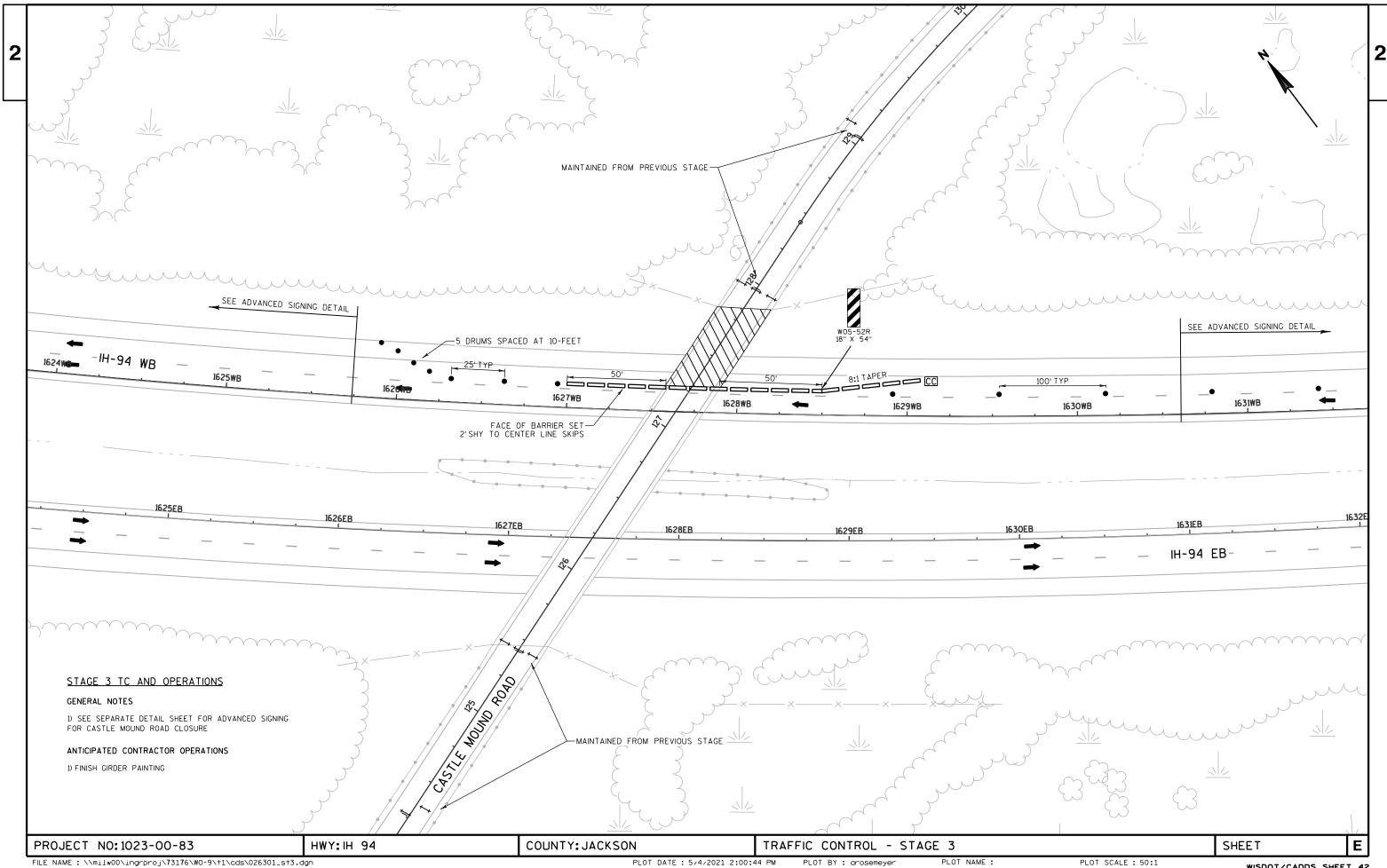


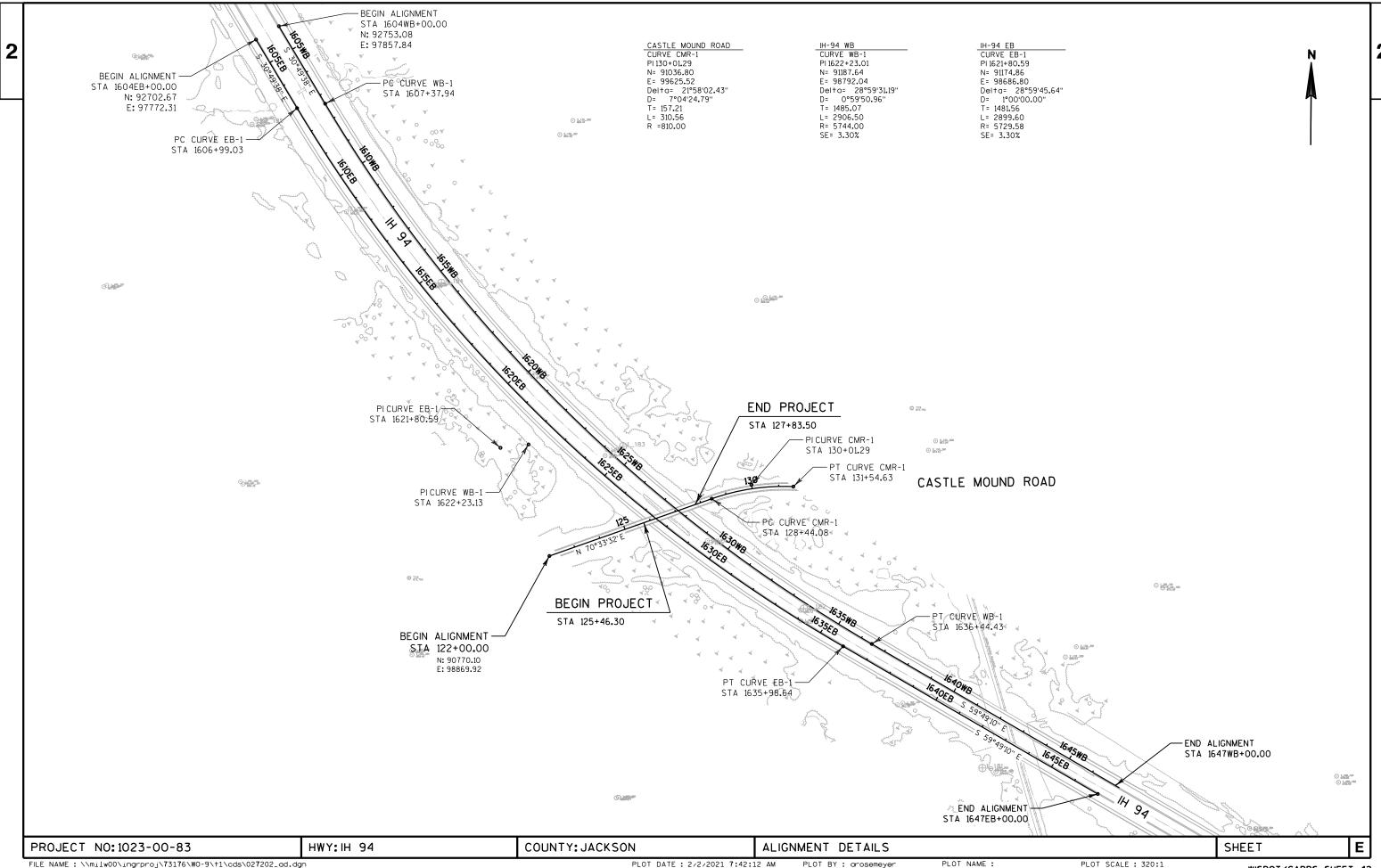












Estimate Of Quantities Page 2

					1023-00-83
Line	Item	Item Description	Unit	Total	Qty
0072	643.5000	Traffic Control	EACH	1.000	1.000
0074	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	3,300.000	3,300.000
0076	650.9910	Construction Staking Supplemental Control (project) 01. 1023-00-83	LS	1.000	1.000
0078	715.0502	Incentive Strength Concrete Structures	DOL	190.000	190.000
0800	SPV.0060	Special 01. Welded Stud Shear Connectors 3/4x3-INCH	EACH	342.000	342.000
0082	SPV.0105	Special 01. Heat Straightening Of Damaged Girders	LS	1.000	1.000
0084	SPV.0105	Special 02. Counterweight Structure	LS	1.000	1.000

FINISHING ROADWAY

213.0100 ROADWAY EACH CASTLE MOUND ROAD PROJECT 1023-00-83 TOTAL

MOBILIZATION

	619.1000
ROADWAY	EACH
CASTLE MOUND ROAD	1
PPO IECT 1023-00-83 TOTAL	1

FIELD OFFICE TYPE B

_	642.5001
ROADWAY	EACH
CASTLE MOUND ROAD	1
PROJECT 1023-00-83 TOTAL	1

RESTORATION ITEMS

	627.0200	628.1910	629.0210	630.0120	630.0200
		MOBILIZATIONS	FERTILIZER	SEEDING	
		EMERGENCY	TYPE	MIXTURE	SEEDING
	MULCHING	EROSION CONTROL	В	NO. 20	TEMPORARY
ROADWAY	SY	EACH	CWT	LBS	LBS
I-94 MEDIAN	890	1	0.6	24	24
PROJECT 1023-00-83 TOTAL	890	1	0.6	24	24

^{*} RESTORATION ITEMS SHALL BE APPLIED AS REQUESTED BY THE ENGINEER

ROADWAY

I-94 WB

CONCRETE BARRIER TEMPORARY PRECAST

					603.8000	603.8125
				NO. OF	DELIVERED	INSTALLED
ROADWAY	STATION	RANGE	OFFSET	MOVES	LF	LF
PHASE 1A						
I-94 WB	1627WB+00 to	1630WB+20	LEFT		320	320
PHASE 1B						
I-94 WB	1627WB+00 to	1630WB+20	LEFT	4		1,080
PHASE 2A						
I-94 WB	1627WB+00 to	1629WB+80	LT/RT		280	280
PHASE 2B						
F94 WB	1627WB+00 to	1629WB+80	RT	4		920
PHASE 2C						
F94 WB	1627WB+00 to	1629WB+80	RT	1		230
PHASE 3						
L94 WB	1627WB+00 to	1629WB+80	RT	1	210	210
PROJECT 1023-00-83	TOTAL		•		810	3,040

TEMPORARY MARKINGS

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH LF COMMENTS 1625WB+00 to 1632WB+00 1100 WHITE

YELLOW

649.0150

1100

1625WB+00 to 1632WB+00 1100 BLACK NON-REFLECTIVE PROJECT 1023-00-83 TOTAL 3,300

STATION RANGE

1625WB+00 to 1632WB+00

CRASH CUSHION

	614.0905 CRASH CUSHION TEMPORARY	DESIGN	OBJECT MARKING	TRAFFIC	CRASH CUSHION
ROADWAY PHAS	E EACH	SPEED	PATTERN	DIRECTION	SHIELDS
IH 94 WB 1A+1	В 1	60	OM-3R (W5-58R SIGN PLATE)	ONE-DIRECTION	TEMPORARY CONCRETE BARRIER ON SHOULDER
IH 94 WB 2A+2B-	2C 1	60	OM-3L (W5-58L SIGN PLATE)	ONE-DIRECTION	TEMPORARY CONCRETE BARRIER ON SHOULDER
IH 94 WB 3	1	60	OM-3R (W5-58R SIGN PLATE)	ONE-DIRECTION	TEMPORARY CONCRETE BARRIER ON SHOULDER
PROJECT 1023-00-83 T	OTAL 3				

SHEET: PROJECT NO: 1023-00-83 HWY: IH 94 COUNTY: JACKSON MISCELLANEOUS QUANTITIES

PLOT NAME: 020101_gn1 FILE NAME: I:\56537\1517-75-71\t1\cds\020101_gn.ppt PLOT DATE: 3/31/2021 11:25:00 AM PLOT BY : HNTB Corp. PLOT SCALE: 1:1

							Т	RAFFIC	CONTR	OL ITEM	1S										
		643.5000	64	3.0300	643	3.0420		3.0705		3.0715	643.	.0800	643	.0900	643.	0920	643	.1051	643.1205.S	643.4100.S	
						A EE10		AFFIC		AFFIC	TD 4	FFIO			TD 4	FF10	TD.	- FEIO	BASIC	TRAFFIC	
		TD 4 EE 10	-	A E E I O		AFFIC		NTROL		NTROL		FFIC	TD.			FFIC		AFFIC	TRAFFIC	CONTROL	
		TRAFFIC		AFFIC		NTROL		RNING		RNING		TROL		AFFIC	CON			ITROL	QUEUE	INTERIM	
	DUDATION.	CONTROL		NTROL		RICADES		GHTS		SHTS		ROW		ITROL	COVERIN			GNS	WARNING	LANE	
DOADWAY	DURATION	(1023-00-83)		RUMS		PE III	. —	PE A		PE C		ARDS		GNS	TYF			CMS	SYSTEM	CLOSURE	-
ROADWAY	DAYS	EACH	EACH*	DAYS	EACH"	DAYS	EACH"	DAYS	EACH"	DAYS	EACH*	DAYS	EACH"	DAYS	CYCLES	EACH	EACH*	DAYS	DAYS	EACH*	-
PRECONSTRUCTION	7	-	-	-		-	-	-	-	-						-	4	28		-	
STAGE 1A																					
ADVANCED SIGNS	10	-			3	30			6	60			12	120						-	
CASTLE MOUND ROAD	10	-			10	100			20	200			4	40						-	
IH-94 WB	10		65	650			40	400			2	20	15	150					10	_	
STAGE 1B																					
ADVANCED SIGNS	16				3	48			6	96			12	192				-			
CASTLE MOUND ROAD	16				10	160			20	320			4	64				-			
IH-94 WB	16	_	65	1,040			40	640			1	16	8	128					16	4	
STAGE 2A																					
ADVANCED SIGNS	10	_			3	30			6	60			12	120						_	
CASTLE MOUND ROAD	10	-			10	100			20	200			4	40						_	
IH-94 WB	10	_	65	650			40	400			2	20	15	150					10	_	
IH-94 EB	10	_	25	250							1	10	8	80						_	
FULL CLOSURE	3	_	70	210	5	15	35	105	10	30	2	6	11	33			2	6		_	
STAGE 2B																					
ADVANCED SIGNS	20				3	60			6	120			12	240				_		_	
CASTLE MOUND ROAD	20				10	200			20	400			4	80				_		_	
IH-94 WB	20		65	1,300			40	800			1	20	8	160				_	20	4	
IH-94 EB	20		25	500		_	_			_	1	20	8	160				_		_	
STAGE 2C																					
ADVANCED SIGNS	4				3	12	_		6	24			12	48				_		_	
CASTLE MOUND ROAD	4				10	40	_		20	80			4	16				_		_	
IH-94 WB	4		65	260			40	160		_	1	4	8	32					4	1	
IH-94 EB	4		25	100							1	4	8	32						<u>.</u>	
STAGE 3	·										•	•	Ü	02							
ADVANCED SIGNS	4				3	12			6	24			12	48							
CASTLE MOUND ROAD	4				10	40		<u></u>	20	80			4	16				_		_	
IH-94 WB	4	_	65	260			40	160			2	8	15	60	 			_	4	1	
UNDISTRIBUTED		1	00			 	40			 	_		10			10			6	-	
סויים ו הוטטו בט		I		-				-								10			U	-	

^{*} PROVIDED FOR INFORMATION ONLY

MAINTENANCE AND REPAIR OF HAUL ROADS (1023-00-83)

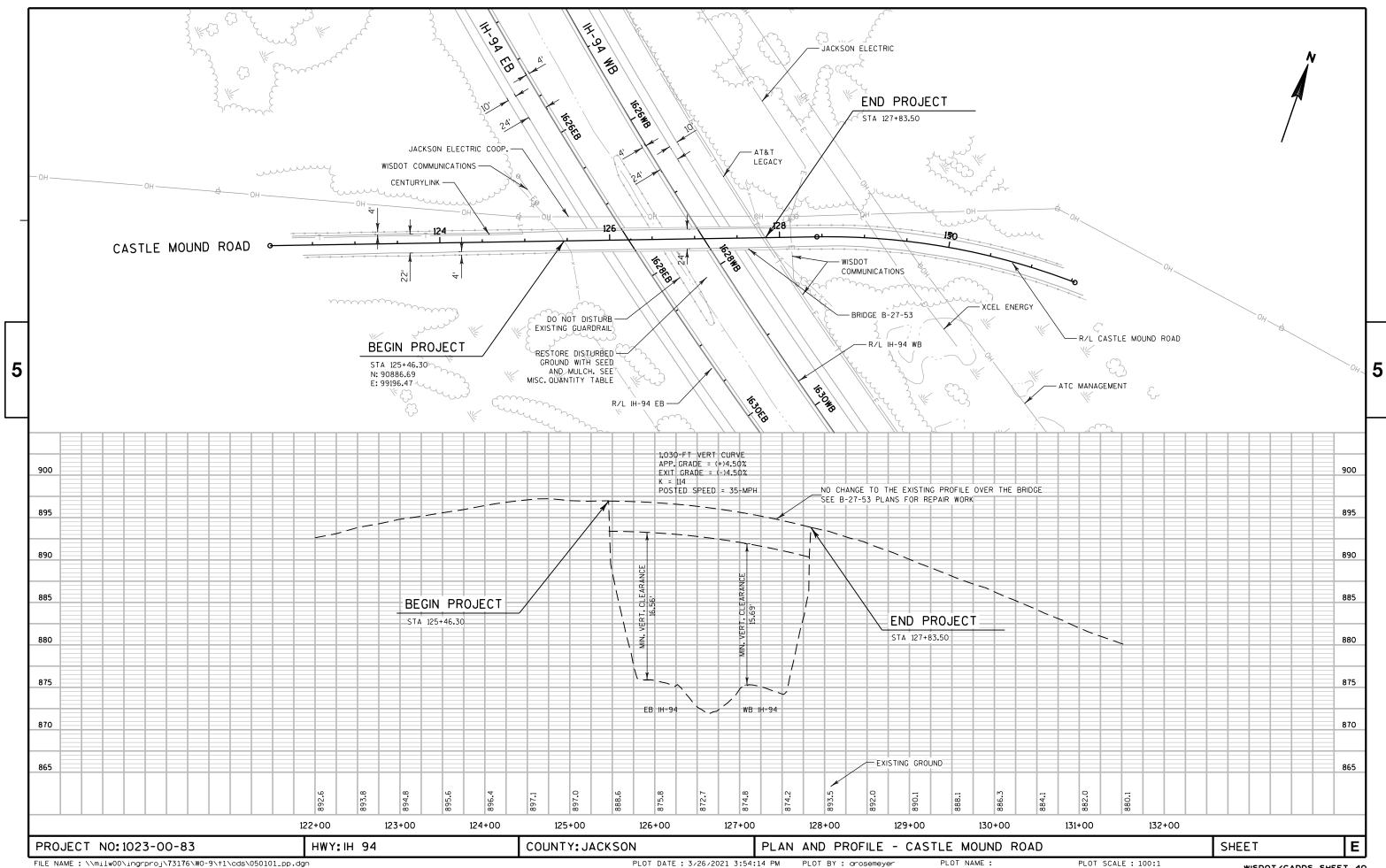
_	618.0100
ROADWAY	EACH
PROJECT 1023-00-83	1
PROJECT TOTAL	1

CONSTRUCTION STAKING SUPPLEMENTAL **CONTROL (1023-00-83)**

	650.9910
ROADWAY	LS
CASTLE MOUND ROAD	1
PROJECT 1023-00-83 TOTAL	1

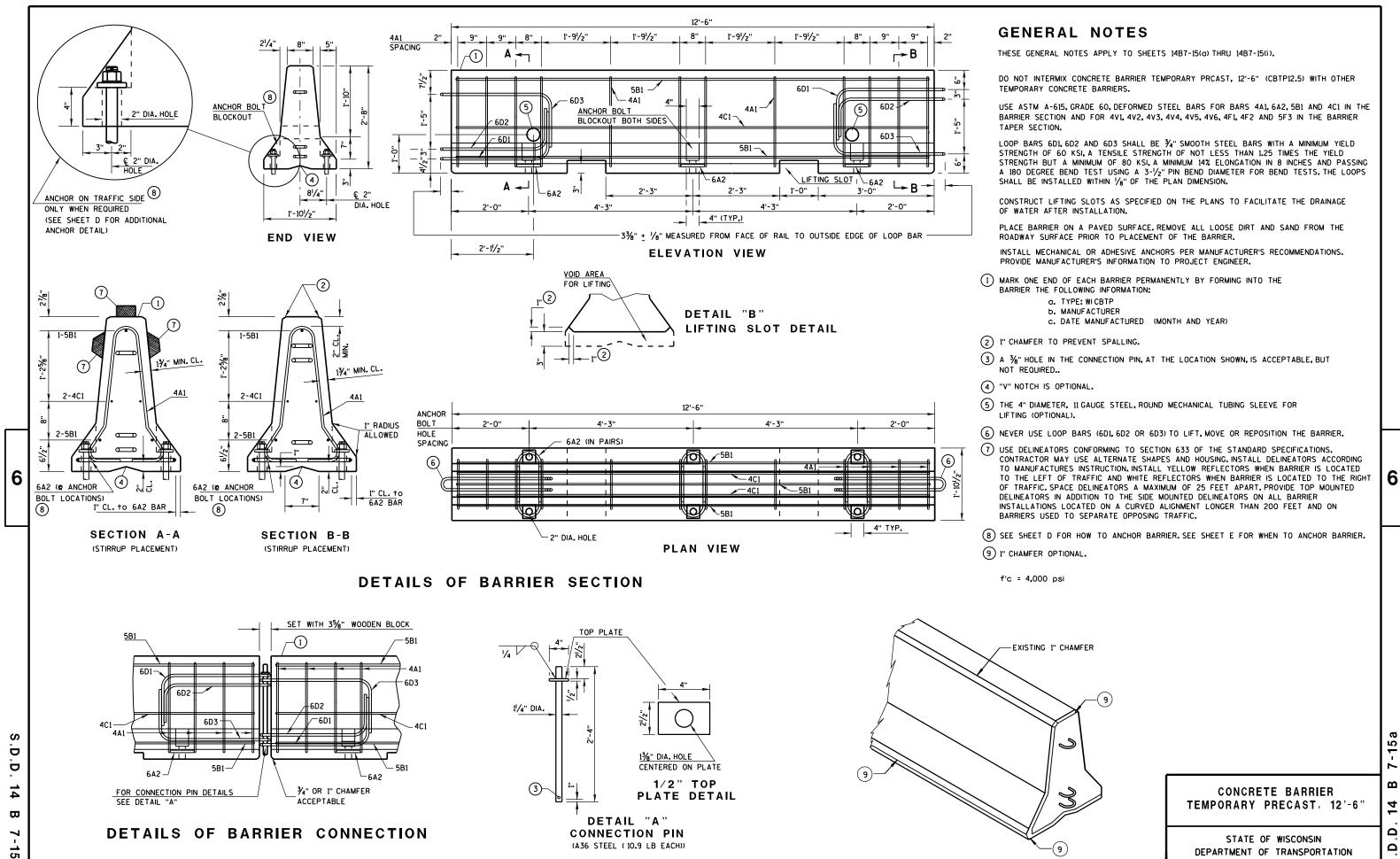
SHEET: HWY: IH 94 COUNTY: JACKSON MISCELLANEOUS QUANTITIES PROJECT NO: 1023-00-83

FILE NAME: I:\56537\1517-75-71\t1\cds\020101_gn.ppt PLOT DATE : 5/4/2021 1:35:14 PM PLOT BY : HNTB Corp. PLOT NAME: 020101_gn2 PLOT SCALE: 1:1



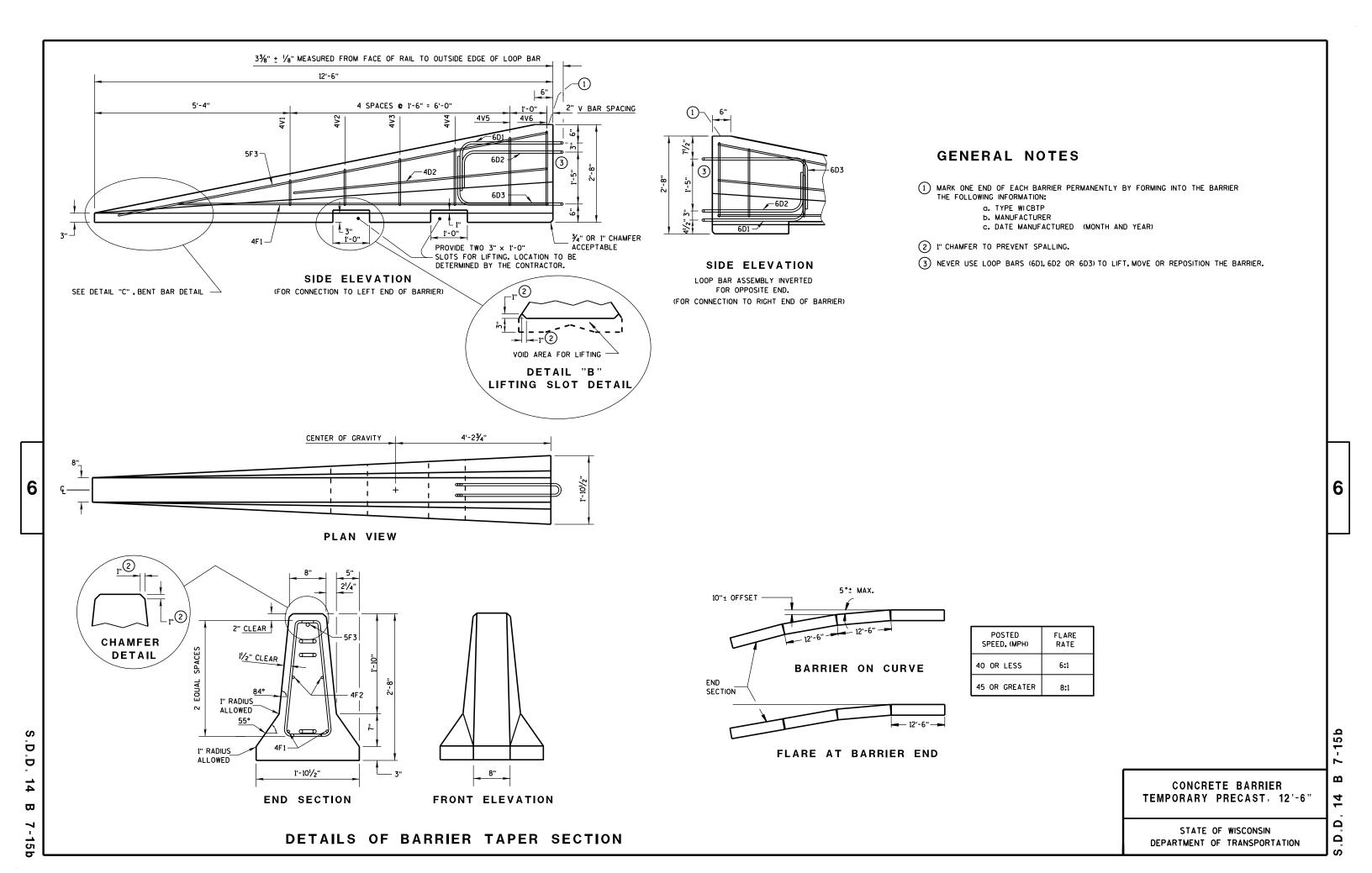
Standard Detail Drawing List

14007 154	CONCRETE DARRIED TEMPORARY DRECACT 121 /#
	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15B	
14B07-15C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRI CADES AND SI GNS FOR VARIOUS CLOSURES
15C11-08B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D03-05	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER
15D12-09B	TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION
15D12-09D	TRAFFIC CONTROL, LANE CLOSURE, BASIC TRAFFIC QUEUE WARNING SYSTEM
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D38-02A	
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D40-02B	TRAFFIC CONTROL, FULL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER
15D40-02D	·
15D40-02D 15D42-01	TRAFFIC CONTROL, TWO LANE FULL FREEWAY CLOSURE
13042-01	TRAFFIC CONTROL, INC. LANE FULL FREEWAT CLOSURE



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DEPARTMENT OF TRANSPORTATION

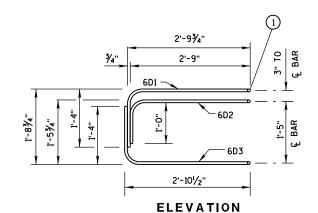


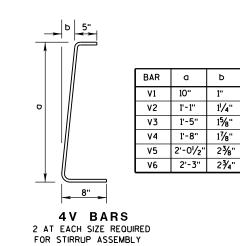
1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

BARRIER TAPER SECTION BILL OF MATERIALS

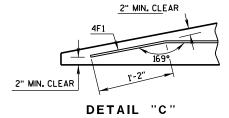
(PER 12'-6" BARRIER TAPER SECTION)

WENTE O BANNEN TAKEN 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"						
· · · · · · · · · · · · · · · · · · ·	•	<u> </u>	•						





LOOP BAR ASSEMBLY



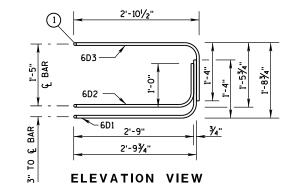
BENT BAR DETAIL

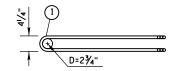
TAPER BARRIER SECTION

BARRIER SECTION **BILL OF MATERIALS**

(PER 12'-6" BARRIER SECTION)

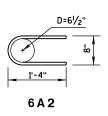
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.		
4A1	4	12	6'-0"		
6A2	6	6	2'-11"		
5B1	5	3	12'-2"		
4C1	4	2	12'-2"		
LOOP ASSEMBLY					
6D1	6	2	8'-5"		
6D2	6	2	7'-7"		
6D3	6	2	8'-6"		
	4A1 6A2 5B1 4C1 L 6D1 6D2	BAR SIZE 4A1 4 6A2 6 5B1 5 4C1 4 LOOP AS 6D1 6 6D2 6	BAR OF BARS 4A1 4 12 6A2 6 6 5B1 5 3 4C1 4 2 LOOP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

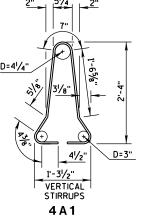




PLAN VIEW LOOP BAR ASSEMBLY

(MARKED END SHOWN, INVERT FOR OTHER END)





BARRIER SECTION

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

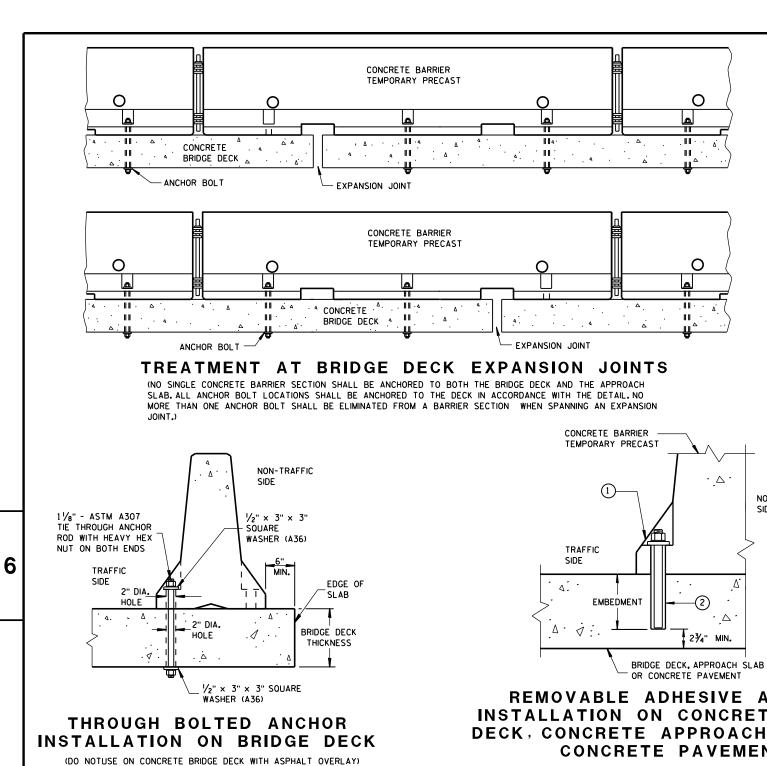
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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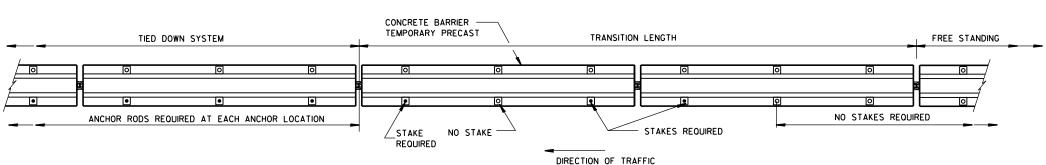
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REMOVABLE ADHESIVE ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR **CONCRETE PAVEMENT**

NON-TRAFFIC

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



PLAN VIEW

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

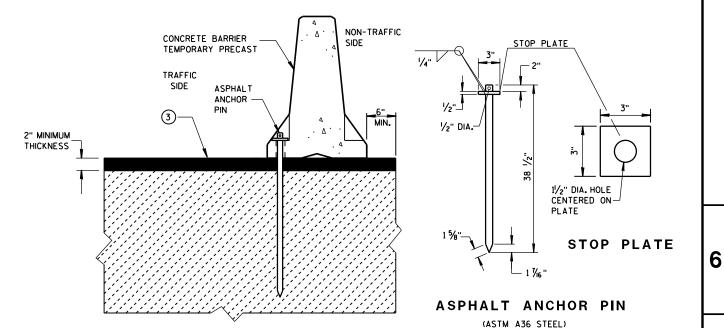
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

GENERAL NOTES

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

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

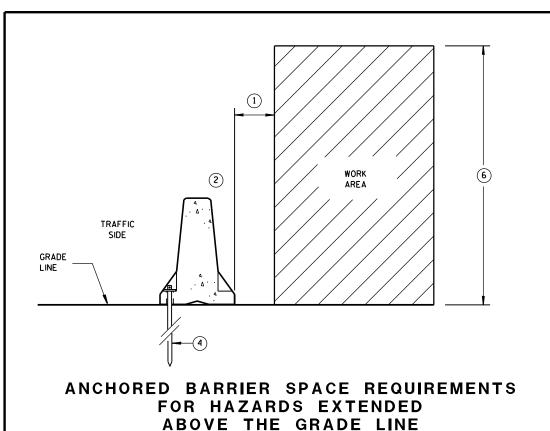
- 1 1/8" DIAMENTER A307 THREADED ROD, 1/2" X 3" X 3" SOUARE PLATE WASHER WITH ASTM A36 STEEL, ASTM A563A HEAVY HEX NUT.
- 2 ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 51/4" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE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

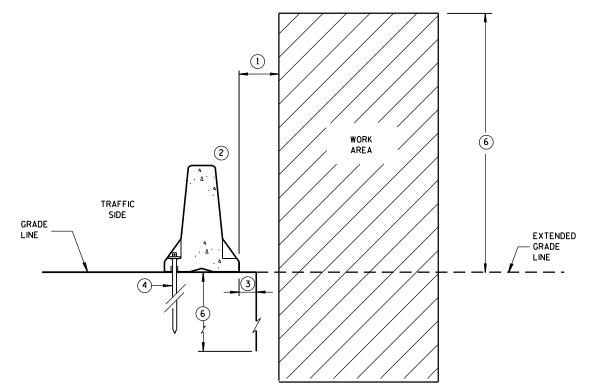


STAKE DOWN INSTALLATION FOR **ASPHALTIC SURFACE**

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

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

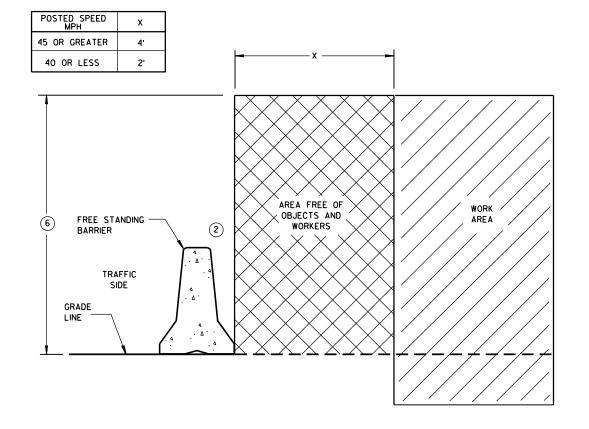


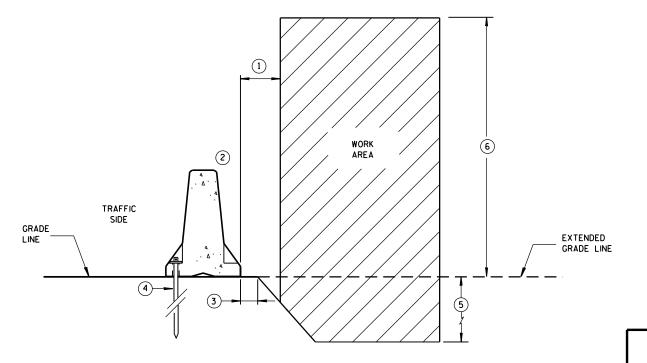


GENERAL NOTES

- 1) WHEN OBJECTS EXTEND ABOVE THE GRADE, A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT. SEE OTHER DETAILS FOR FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR
- 2 OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR LEANED AGAINST THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.
- (3) SEE OTHER DETAIL ON SHEET "D" FOR SPACE REQUIREMENTS.
- 4 SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR A STAKE DOWN FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.
- (5) DEPTH OF 3 FEET OR MORE.
- (6) Y = 6'-6".

ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS





FREE STANDING BARRIER SPACE REQUIREMENTS

ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

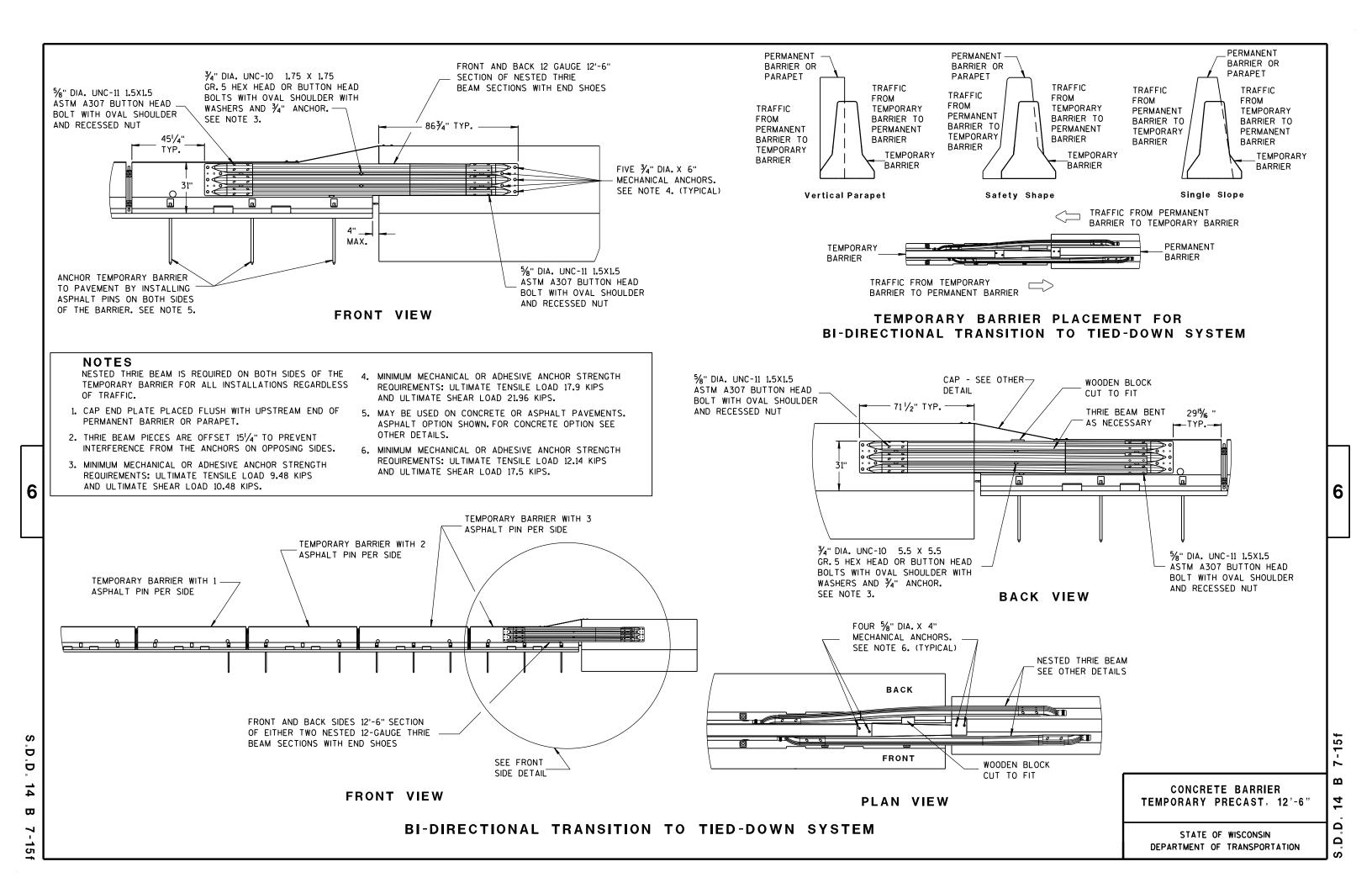
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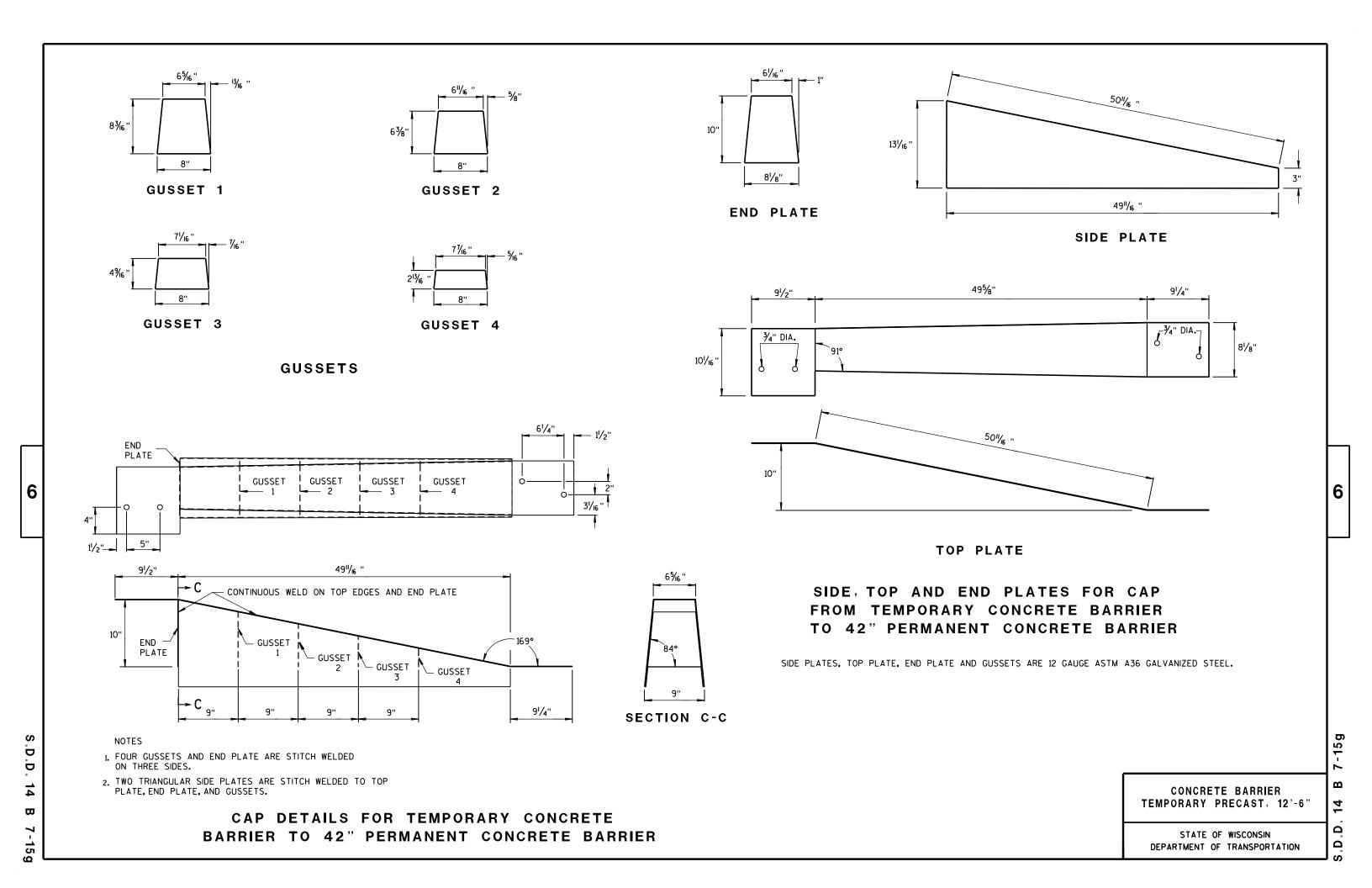
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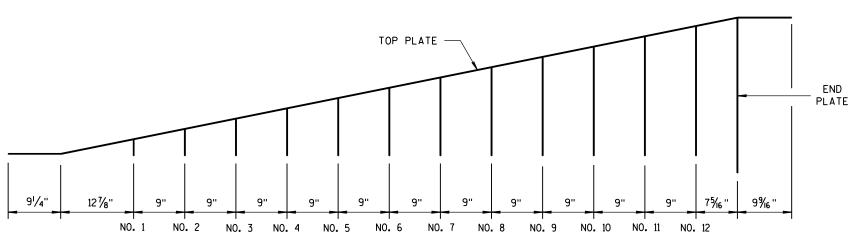
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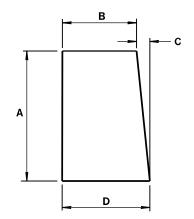




GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE

BARRIER TO 56" PERMANENT CONCRETE BARRIER



GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS					
GUSSET NO.	A	В	С	D	
1	21/8"	73/4"	1/4"	8	
2	4"/16 "	7% "	1/2"	8	
3	61/2"	73/8"	11/16 "	8½ ₆ "	
4	85//6"	73/16"	7∕8"	8½ ₆ "	
5	101/8"	7"	1 ½ ₆ "	81/16"	
6	11 ¹⁵ / ₁₆ ''	6 ¹³ / ₁₆ "	1 1/4"	81/16"	
7	13¾"	65%"	1 1/6"	81/16"	
8	15% "	6 ½ "	1 % "	8½ ₆ "	
9	173/8"	61/4"	1 ¹³ / ₁₆ ''	8½6"	
10	19¾ "	6½ ₆ "	1 15/16 "	81/16 "	
11	21"	5 1/8"	23/6"	81/16"	
12	22 ¹³ / ₁₆ "	5"/ ₁₆ "	25/6"	81/16"	

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.

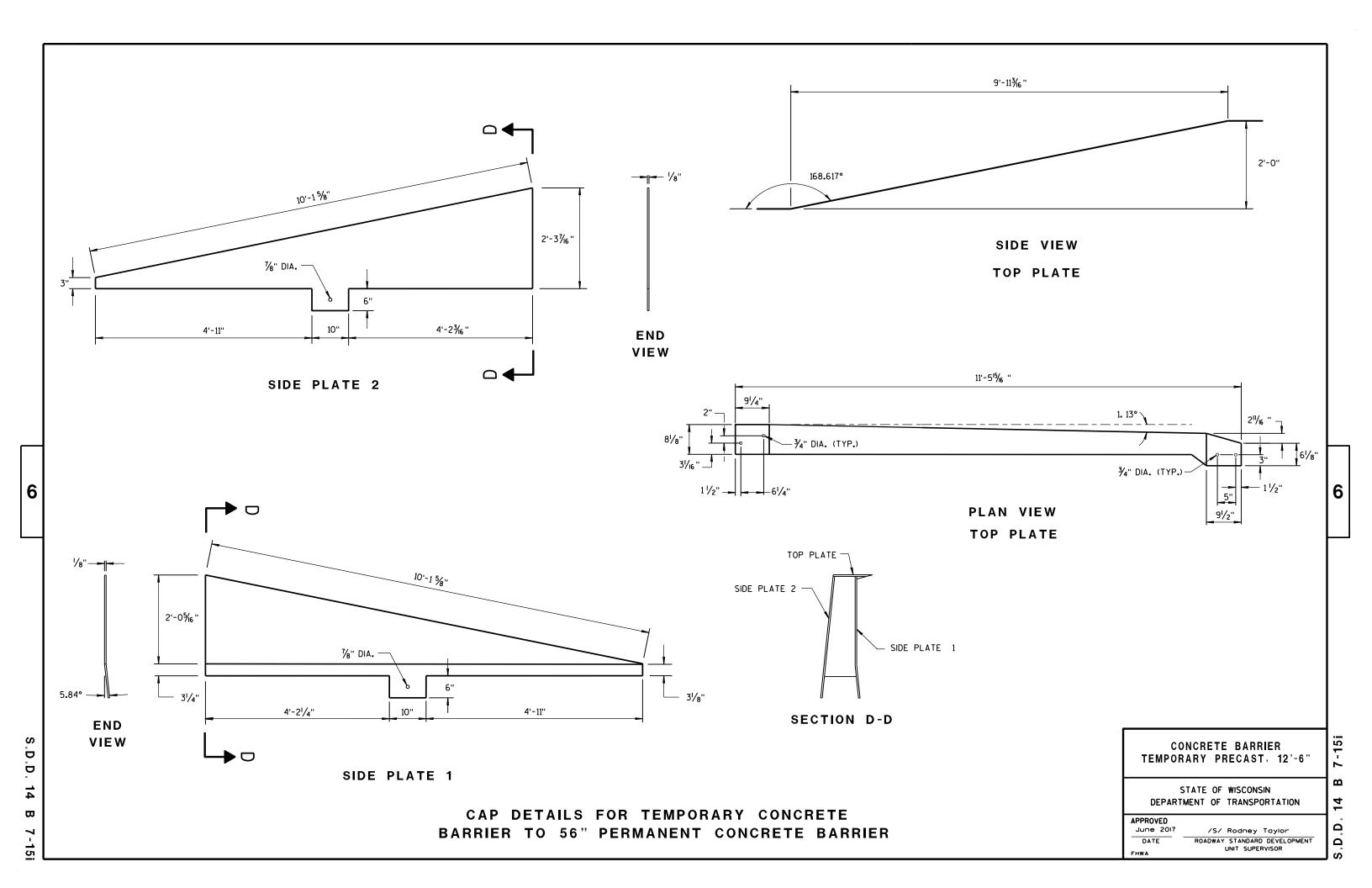
> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

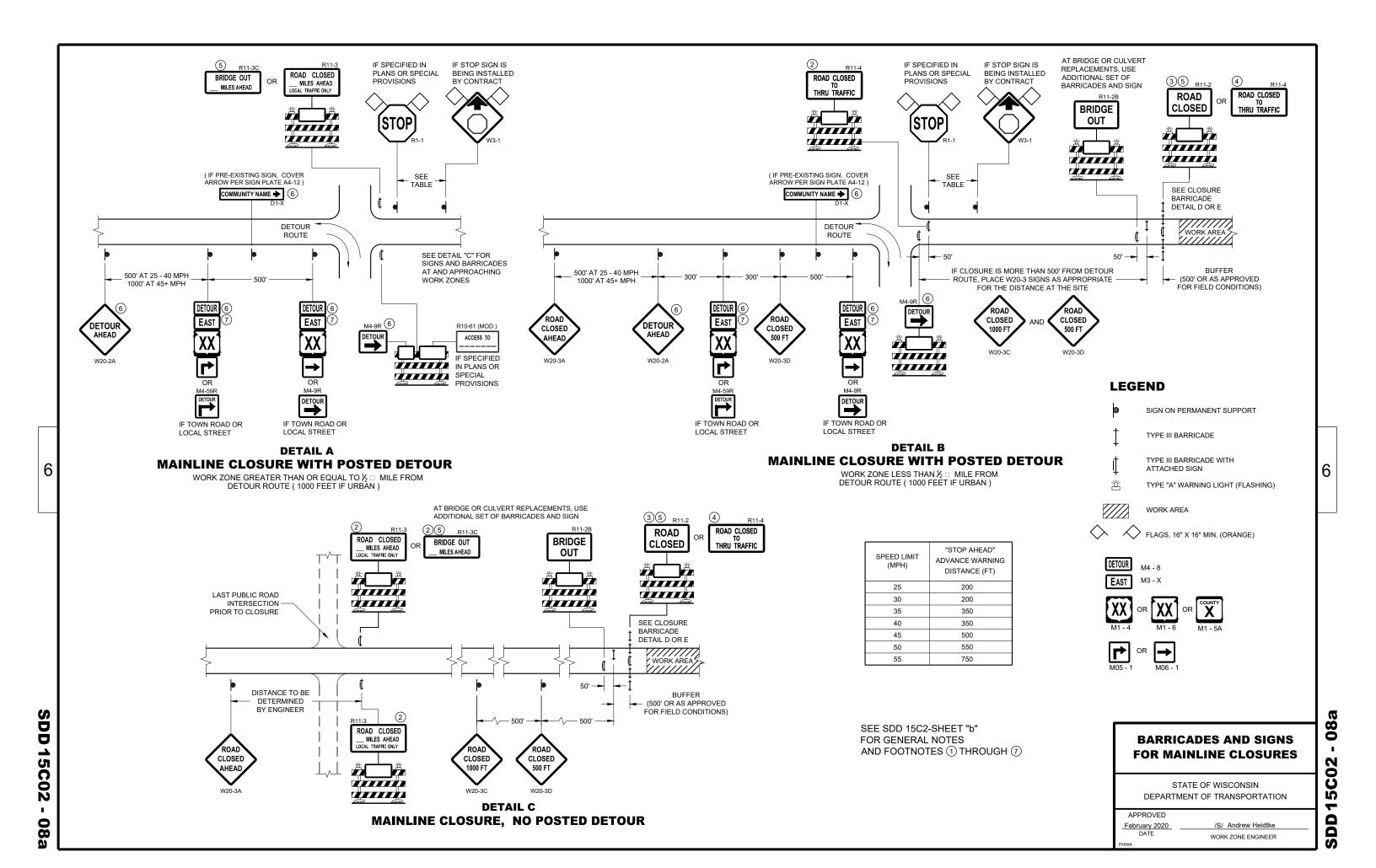
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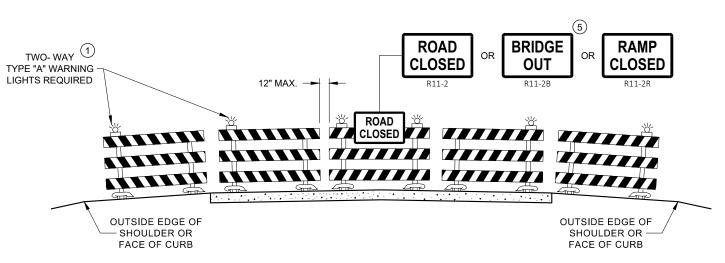
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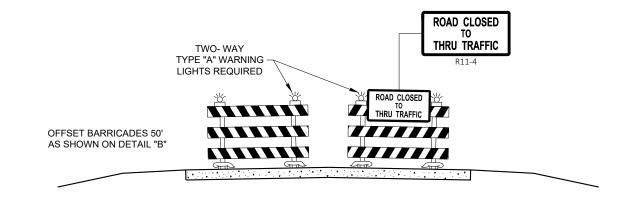
DEPARTMENT OF TRANSPORTATION







DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL **APPROACH VIEW**

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2. R11 - 3. M4 - 9. R11 - 4. AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11 - 2 SHALL BE 48" X 30"

R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"

M4 - 9 SHALL BE 30" X 24"

M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS) D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

R1 - 1 SHALL BE 36" X 36"

- TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT **SPACING**
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS. PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

February 2020 DATE

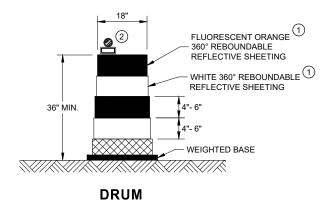
WORK ZONE ENGINEER

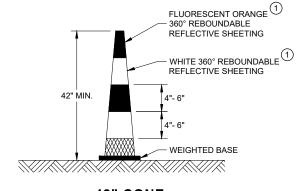
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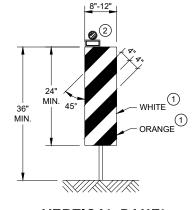
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GENERAL NOTES

- (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.



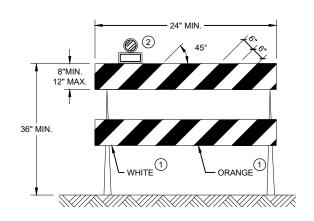




42" CONE DO NOT USE IN TAPERS ½ SPACING OF DRUMS

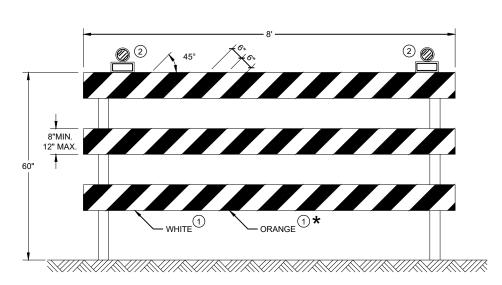
VERTICAL PANEL

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.

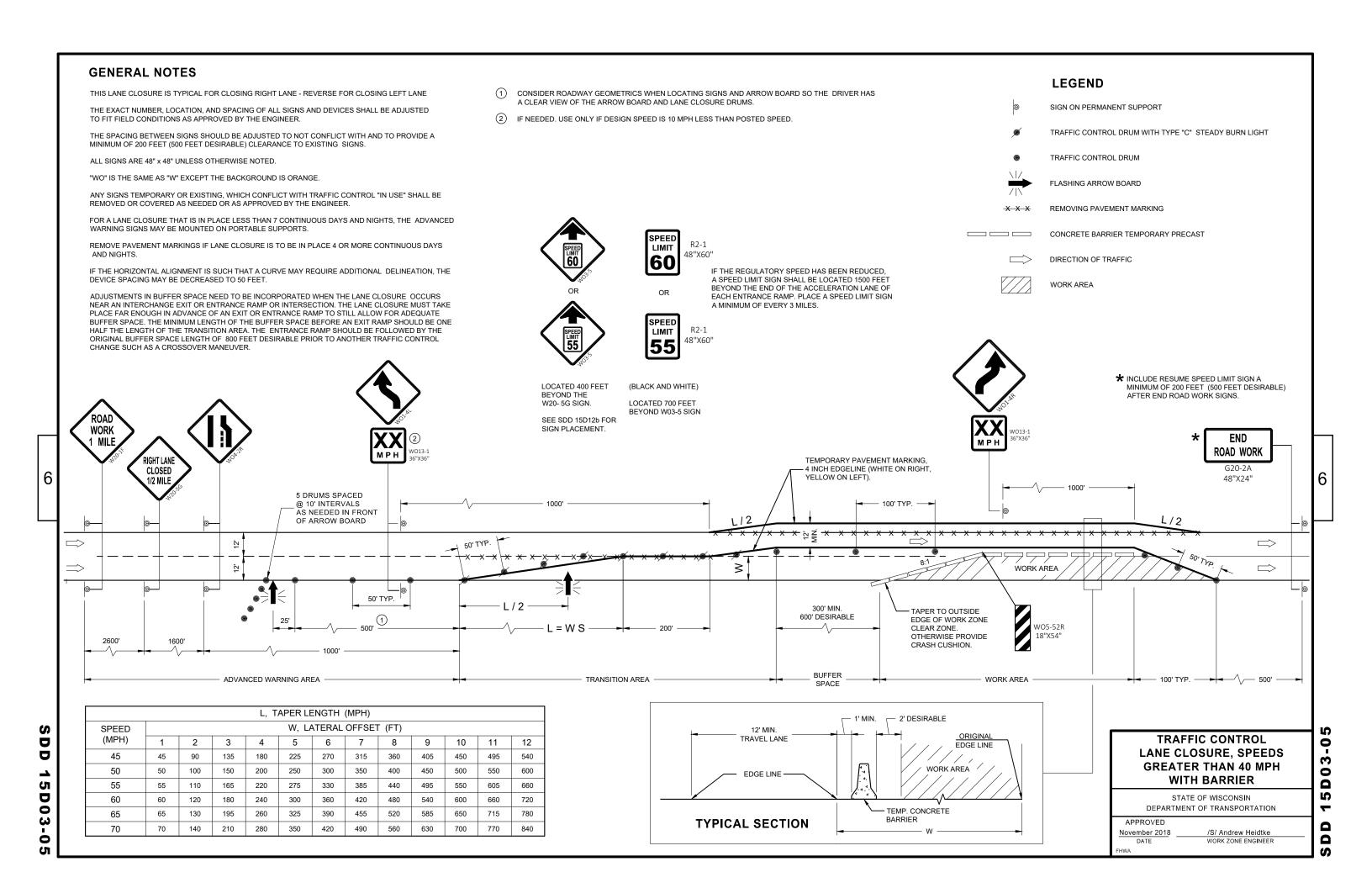
* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 08

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APPROVED	
November 2020	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER



THE EXACT NUMBER, LOCATION, TO FIT FIELD CONDITIONS AS APP THE SPACING BETWEEN SIGNS SIMINIMUM OF 200 FEET (500 FEET I

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.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

"WO" SIGNS ARE THE SAME AS "W" SIGNS 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.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

★ A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. PLACE A SPEED LIMIT SIGN A MINIMUM OF EVERY 3 MILES. INCLUDE A RESUME SPEED LIMIT SIGN 200 FEET MINIMUM (500 FEET DESIRABLE) BEYOND THE "END OF ROADWORK" SIGN.

LEGEND

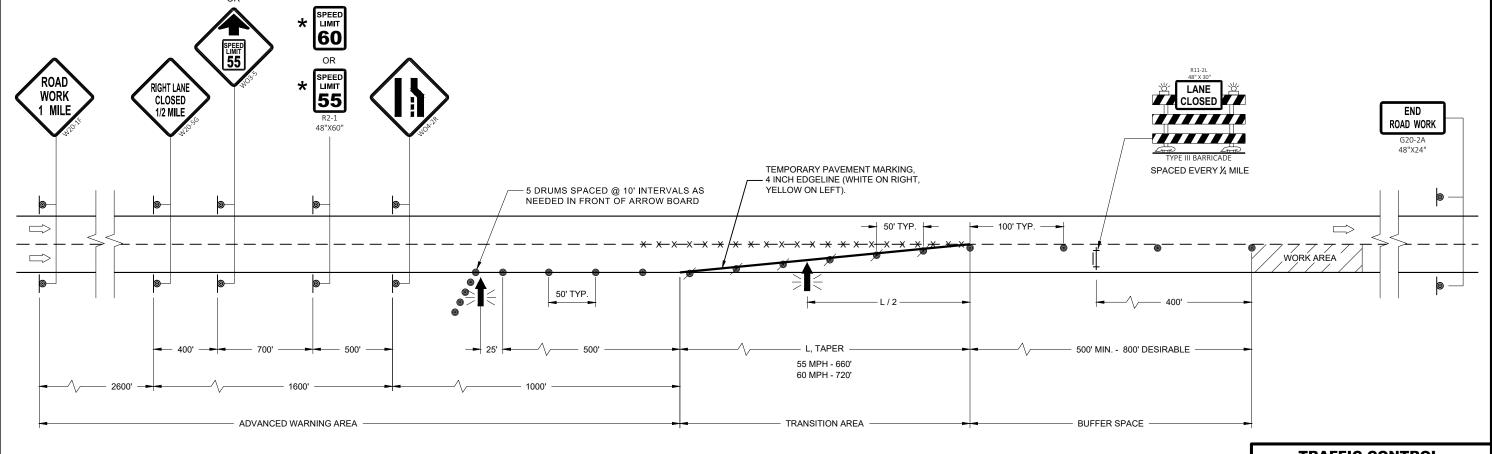
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- ▼ TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC



WORK AREA



FLASHING ARROW BOARD



TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

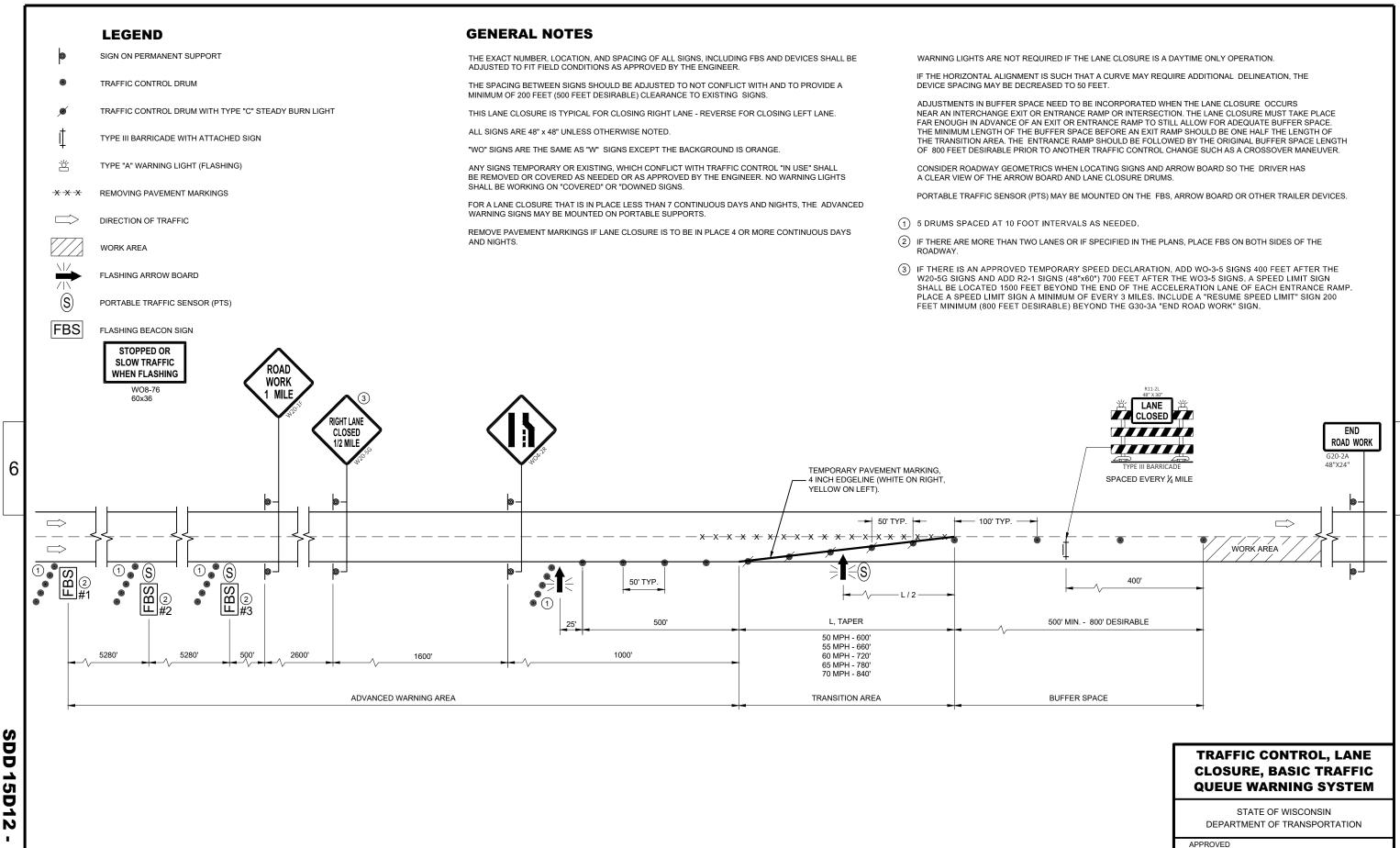
/S/ Andrew Heidtke
WORK ZONE ENGINEER

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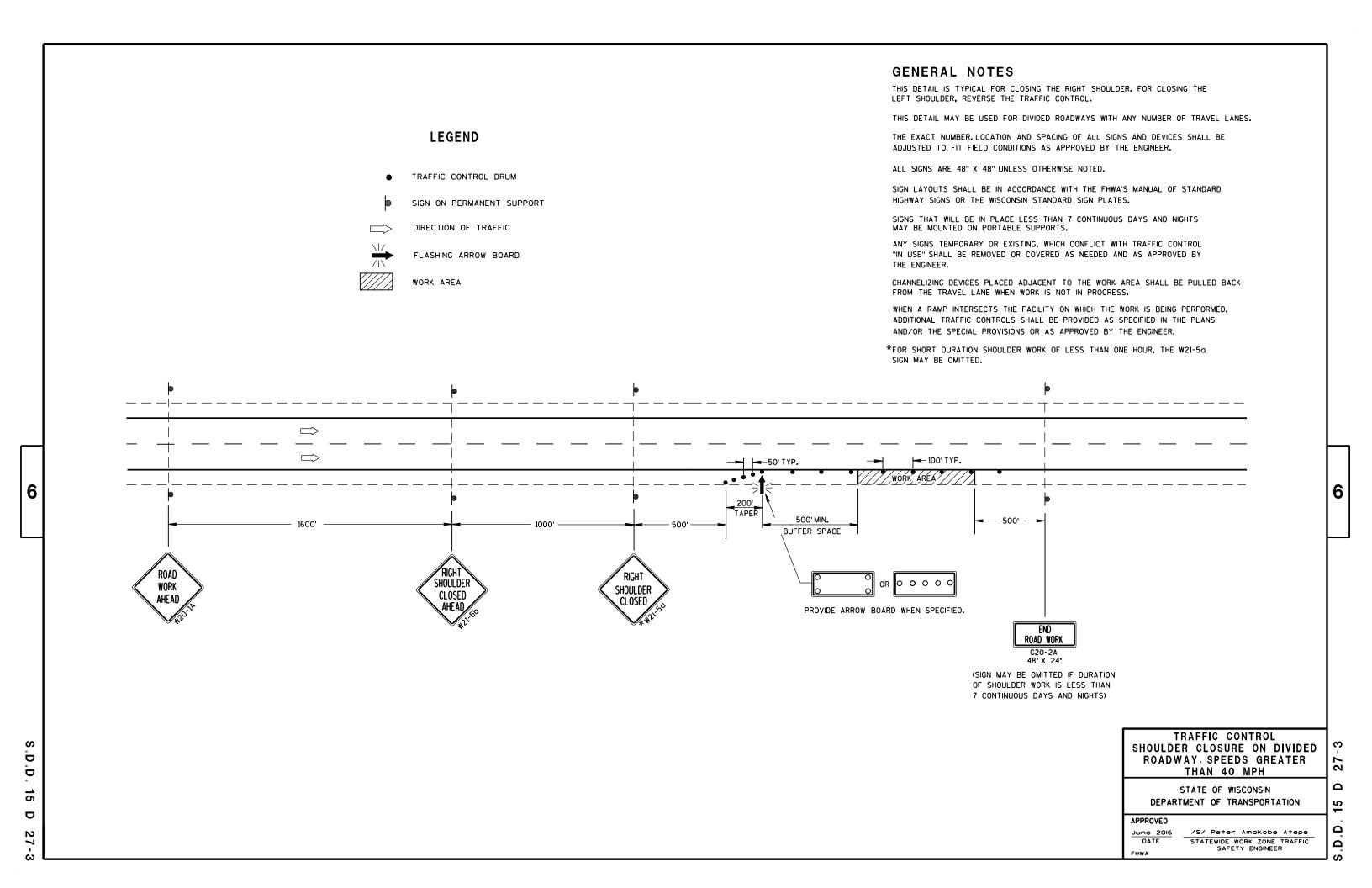
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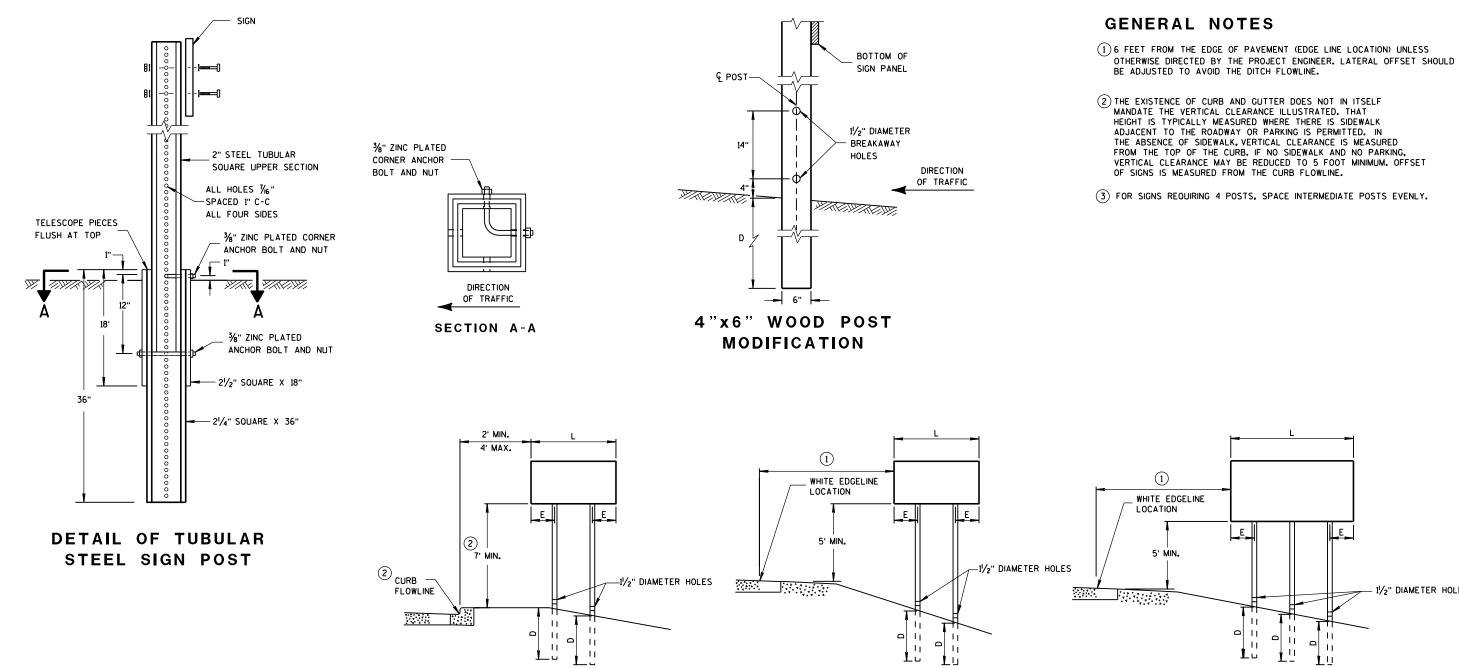
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/S/ Andrew Heidtke

WORK ZONE ENGINEER

August 2020 DATE





TUBULAR STEEL POSTS

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

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

ON TUBULAR STEEL POSTS.

URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

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

4" X 6" WOOD POST

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

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

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DEPARTMENT OF TRANSPORTATION

/S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

June 2017
DATE

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<u>1</u>

/S/ Andrew Heidtke

WORK ZONE ENGINEER

February 2021 DATE

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

TYPE "A" WARNING LIGHT (FLASHING)

DIRECTION OF TRAFFIC

WORK AREA

REMOVE PAVEMENT MARKING

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) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT LEFT - REVERSE FOR SHIFTING RIGHT.

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 AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON ANY

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN

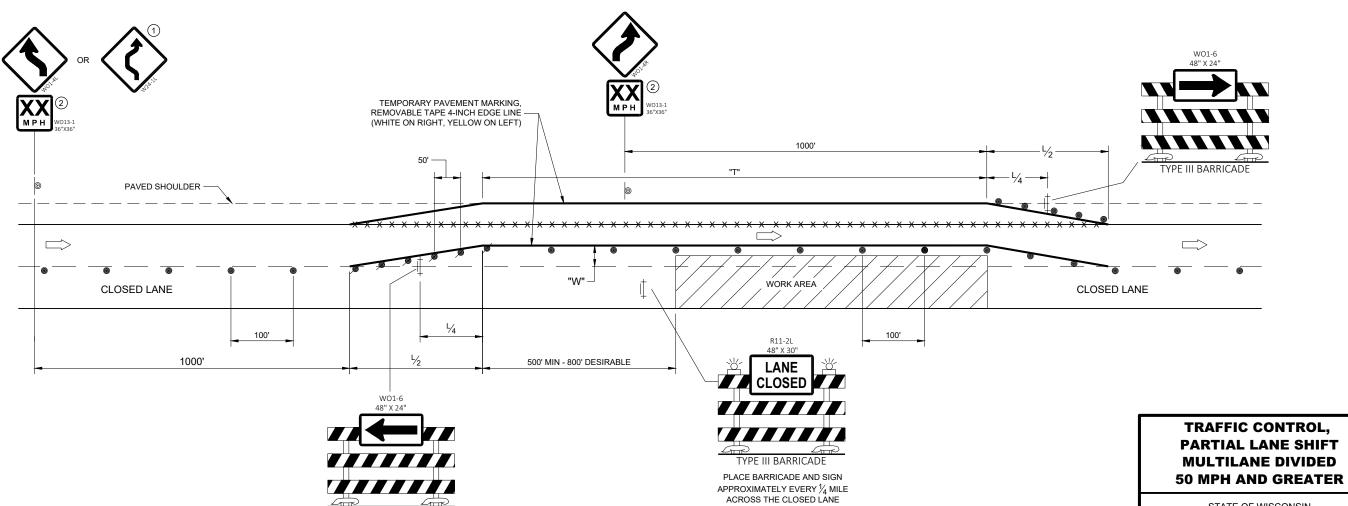
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS. NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE. RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL. CHANGE SUCH AS A CROSSOVER MANEUVER.

- 1) USE ONLY WHEN T<600', OMIT WO1-4R.
- (2) IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

POSTED SPEED LIMIT PRIOR TO WORK	SHIFTING TAPER $\frac{L}{2}$ W, LATERAL OFFSET (FT)								
STARTING (MPH)	1	2	3	4	5	6	7	8	9
50	25	50	75	100	125	150	175	200	225
55	28	55	83	110	138	165	193	220	248
60	30	60	90	120	150	180	210	240	270
65	33	65	98	130	163	195	228	260	293
70	35	70	105	140	175	210	245	280	315



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

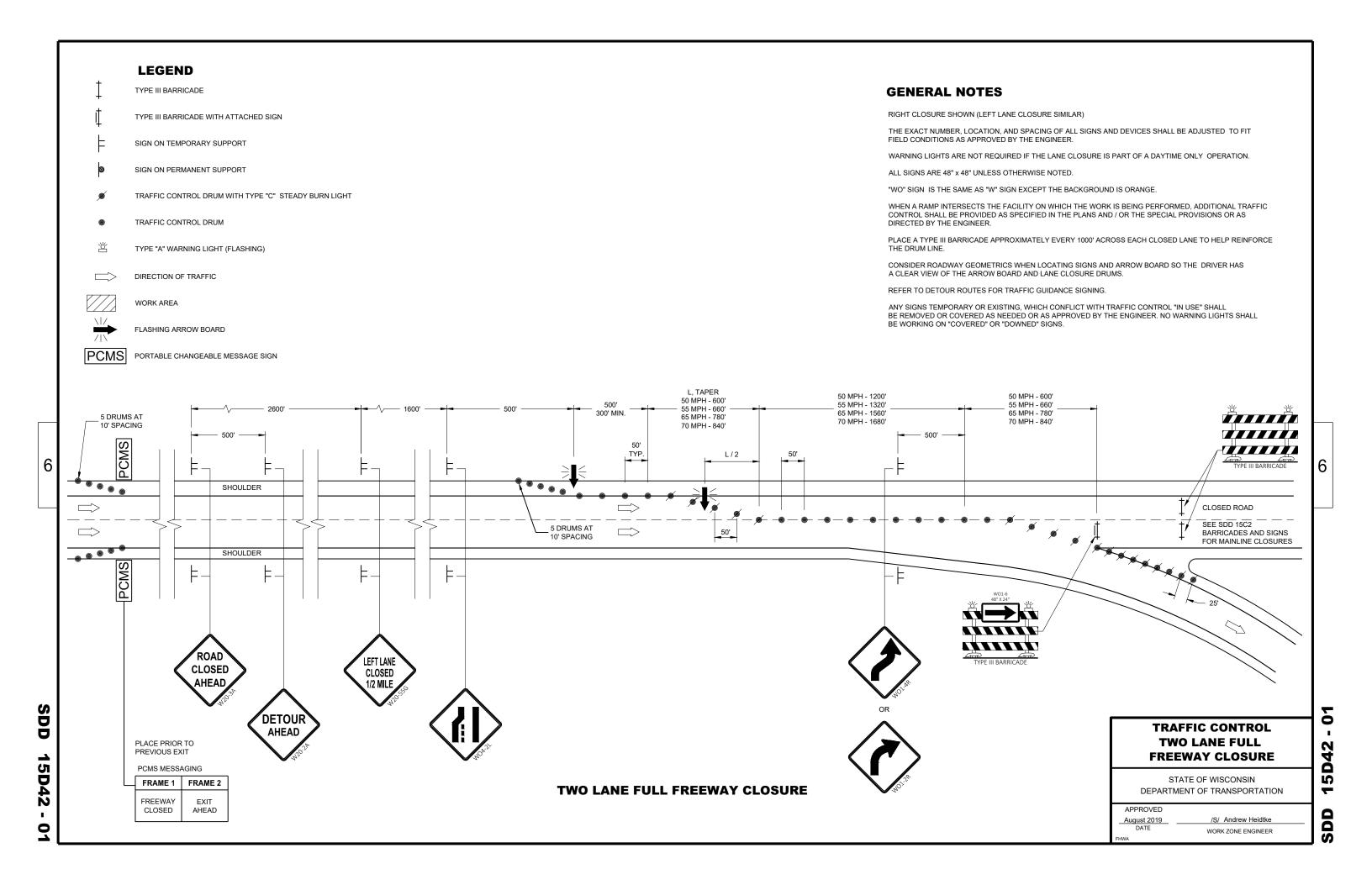
APPROVED February 2021 DATE

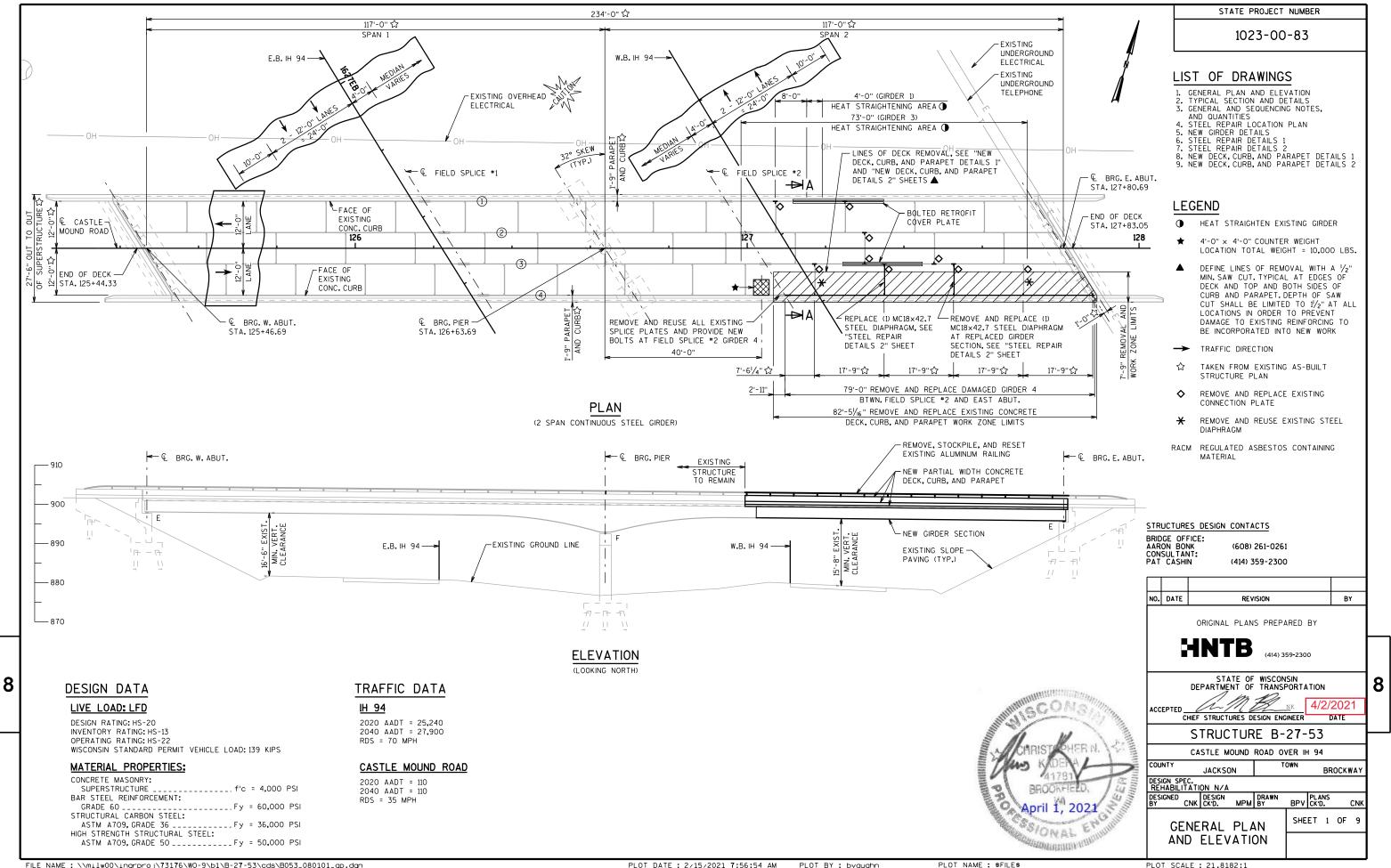
ROADWAY STANDARDS DEVELOPMENT ENGINEER

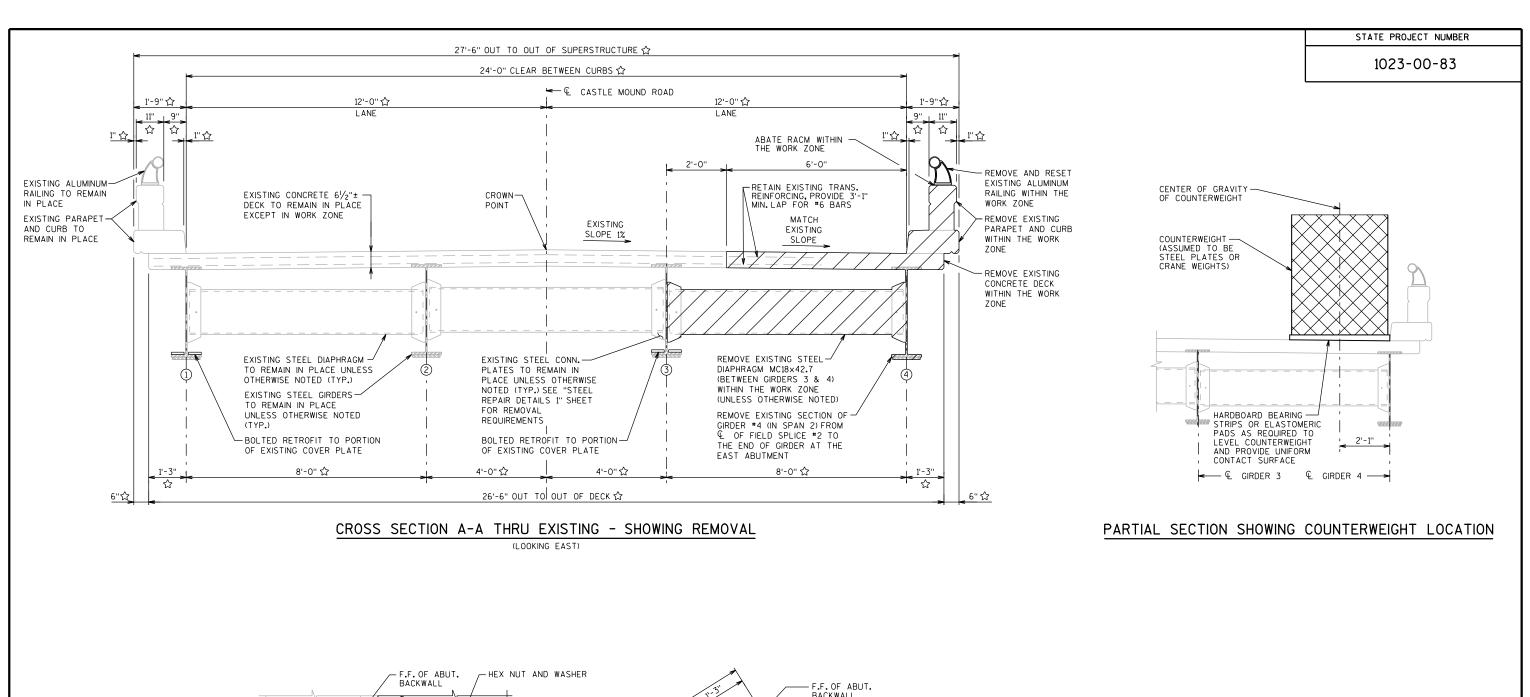
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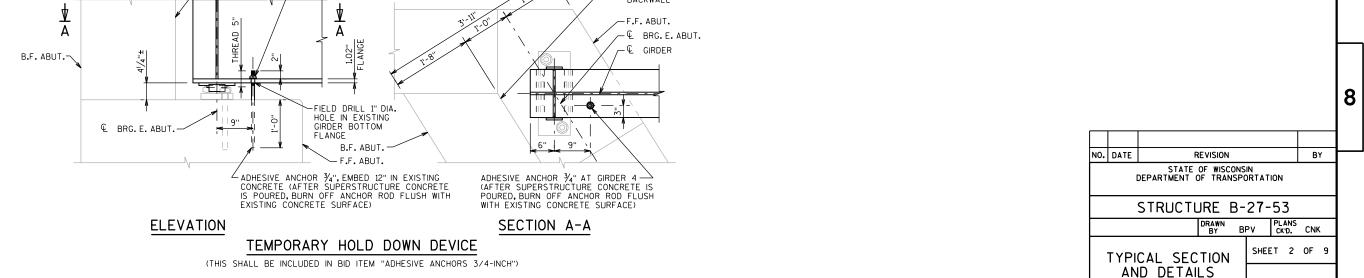
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SEQUENCING NOTES

- 1. REMOVE THE 4TH DIAPHRAGM FROM THE EAST ABUTMENT ALONG GIRDER 3, BAY 3 AND DRILL OUT ANY MARKED CRACK TIPS PRIOR TO HEAT STRAIGHTENING. REFERENCE REPORT BY FICKETT STRUCTURAL SOLUTIONS, INC. DATED JAN. 8, 2021. DRILL OUT ANY MARKED CRACK TIPS ON GIRDERS 1 AND 3 WEB PLATES AT THE DIAPHRAGMS INDICATED ON THE "PARTIAL DECK/GIRDER REPLACEMENT" SHEET PRIOR TO HEAT STRAIGHTENING. THIS WORK SHALL BE PAID FOR UNDER THE BID ITEM "HEAT STRAIGHTENING OF DAMAGED GIRDERS".
- 2. REMOVE PORTION OF BOTTOM FLANGE COVER PLATES FROM GIRDERS 1 AND 3 AS INDICATED AND GRIND REMAINING WELDS AT REMOVED LOCATIONS SMOOTH, PERFORM HEAT STRAIGHTENING TO INDICATED LOCATIONS OF GIRDERS 1 AND 3 TO BRING WEB AND FLANGES WITHIN DIMENSIONAL TOLERANCES REQUIRED. SEE SPECIAL PROVISIONS FOR REQUIREMENTS, EXISTING DEFLECTIONS AT GIRDER 2 ARE ANTICIPATED TO RECOVER TO WITHIN TOLERANCES AFTER DIAPHRAGM CONNECTION BOLTS ARE REMOVED BETWEEN DAMAGED GIRDERS 1 AND 3 AND GIRDER 2. IF GIRDER 2 DOES NOT RECOVER AS ANTICIPATED, CONTACT THE DEPARTMENT FOR DIRECTION.
- 3. CLAMP BOTTOM FLANGE COVER PLATE RETROFIT PLATES INTO PLACE. USING THE SHOP DRILLED BOLT HOLE PATTERNS IN THE RETROFIT PLATES AS TEMPLATES, FIELD DRILL BOLT HOLES IN BOTTOM FLANGE AND COVER PLATE. INSTALL BOLTS AND TIGHTEN.
- 4. IN LOCATIONS INDICATED, REMOVE DAMAGED DIAPHRAGM CONNECTIONS AND GRIND WELDS SMOOTH. INSTALL NEW DIAPHRAGM CONNECTIONS AND DIAPHRAGMS AS INDICATED ON "STEEL REPAIR DETAILS 2" SHEET.
- 5. TAKE/RECORD TOP OF DECK ELEVATIONS AT SPAN 2 TENTH POINTS ALONG GIRDER 4. THESE ELEVATIONS WILL BE USED TO DETERMINE THE DECK THICKENING DIMENSION, 'T'.
- 6. PRIOR TO PERFORMING ANY OTHER WORK RELATED TO THE TUBULAR RAILING, ABATE REGULATED ASBESTOS CONTAINING MATERIAL (RACM) WITHIN THE WORK ZONE LIMITS BY A LICENSED ABATEMENT CONTRACTOR, REFERENCE REPORT BY TRC ENVIRONMENTAL CORPORATION DATED DECEMBER 14, 2020. THIS WORK SHALL BE PAID FOR UNDER THE BID ITEM "ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-27-53".
- REMOVE AND STOCKPILE ALUMINUM RAILING TO THE EXTENTS SHOWN ON THE PLANS. PAD/GASKETS UNDER RAILING POST CONTAIN ASBESTOS. ABATEMENT PAID FOR UNDER BID ITEM "ASBESTOS ABATEMENT" (SEE ASSOCIATED NOTE).
- 8. REMOVE PARAPET AND CURB TO THE EXTENTS SHOWN ON THE PLAN.
- 9. ADD THE COUNTERWEIGHT AS SHOWN ON "TYPICAL SECTION AND DETAILS" SHEET, THE CENTER OF GRAVITY OF THE COUNTERWEIGHT MUST BE LOCATED AS SHOWN ON "GENERAL PLAN AND ELEVATION" SHEET FROM THE CENTER OF PIER AND GIRDER.
- 10. REMOVE THE DECK TO THE EXTENTS SHOWN ON THE PLAN.
- 11. REMOVE THE (3) EXISTING DIAPHRAGMS ATTACHED TO GIRDER 4 BETWEEN FIELD SPLICE *2 AND EAST ABUTMENT. GRIND WELDS AT THE EXISTING CONNECTION STIFFENERS OF GIRDER 3 SMOOTH AT INDICATED DIAPHRAGM LOCATIONS. NON-INDICATED EXISTING CONNECTION STIFFENERS AT GIRDER 3 TO REMAIN. ALSO INSTALL BLOCKING TO VERTICALLY SUPPORT THE EAST ABUTMENT DIAPHRAGM LOCATED BETWEEN GIRDER 3 AND GIRDER 4 AND THEN REMOVE THE BOLTS CONNECTING THE ABUTMENT DIAPHRAGM TO THE BEARING STIFFENER ON GIRDER LINE 4. ABUTMENT DIAPHRAGM TO REMAIN IN PLACE.
- 12. SUPPORT THE SECTION OF GIRDER 4 TO BE REMOVED. REMOVE BOLTS FROM THE TOP AND BOTTOM FLANGE SPLICE PLATES AND THE WEB SPLICE PLATES ON THE REPLACEMENT SIDE OF THE FIELD SPLICE ONLY AT GIRDER 4.

- 13. REMOVE THE REMAINING BOLTS AT FIELD SPLICE #2 AND REMOVE THE SPLICE PLATES.
- 14. REMOVE DAMAGED PORTION OF GIRDER 4 BETWEEN FIELD SPLICE #2 AND THE EAST ABUTMENT.
- 15. REMOVE BEARING ASSEMBLY FROM GIRDER 4, GRIND WELDS AT THE SOLE PLATE SMOOTH, INSTALL EXISTING BEARING ASSEMBLY ON NEW SECTION OF GIRDER 4 AND FIELD WELD IN PLACE. (ALTERNATIVELY, FIELD WELD EXISTING BEARING ASSEMBLY TO THE NEW SECTION OF GIRDER 4 AFTER SWINGING NEW SECTION INTO PLACE), GRIND EXISTING GIRDER 4 KEEPER BAR WELDS TO ROCKER PLATE AND FIELD WELD NEW KEEPER BAR TO ROCKER PLATE. COST INCIDENTAL TO "STRUCTURAL STEEL CARROON".
- 16. LOOSEN BOLTS ON THE EXISTING SPLICE PLATES CONNECTION TO THE REMAINING PORTION OF GIRDER 4 AS REQUIRED TO ALLOW CONNECTION OF THE NEW GIRDER SECTION. SWING NEW SECTION OF GIRDER 4 INTO PLACE AND CONNECT TO THE EXISTING SPLICE PLATES BY INSTALLING ALL THE BOLTS INTO NEW GIRDER PORTION/SIDE OF THE FIELD SPLICE WHILE THE NEW GIRDER SECTION IS SUPPORTED BY THE CRANE OR LIFT.
- 17. CLAMP THE SPLICE PLATES AT GIRDER 4 TO THE NEW GIRDER SECTION TO BRING THEM TIGHT TO THE TOP AND BOTTOM FLANCES OF THE NEW GIRDER SECTION. AFTER PLATES ARE CLAMPED AT FIELD SPLICE *2 ALLOW THE GIRDERS TO REST ON THE SPLICE PLATES AND BE SUPPORTED BY THE STRUCTURE.
- 18. AFTER REMOVING GIRDER FROM THE CRANE/LIFT, FIELD DRILL ALL THE SPLICE BOLT HOLES THROUGH THE NEW PORTION OF GIRDER 4 USING THE REUSED SPLICE PLATES AS TEMPLATES. INSTALL NEW BOLTS THROUGH THE FIELD DRILLED HOLES ON THE NEW GIRDER SIDE OF THE SPLICE AND REMOVE CLAMPS.
- 19. INSTALL THE NEW DIAPHRAGMS BETWEEN GIRDERS 3 AND 4 AS DETAILED ON THE "STEEL DIAPHRAGM DETAILS 2" SHEET, PAY PARTICULAR ATTENTION TO THE INSTALLATION PROCEDURE/DETAIL FOR THE CONNECTION AT GIRDER 3, AS NOT ALL BOLTS WILL BE INSTALLED AT THESE LOCATIONS UNTIL AFTER THE NEW DECK IS POURED. REATTACH THE EAST ABUTMENT DIAPHRAGM TO THE NEW GIRDER BEARING STIFFENER WITH BOLTS AS DETAILED AND REMOVE BLOCKING.
- 20. INSTALL TEMPORARY HOLD DOWN AT GIRDER 4. SEE THIS SHEET FOR DETAILS.
- 21. REMOVE COUNTERWEIGHT.
- 22. FORM THE NEW PORTION OF DECK, INSTALL SHEAR STUDS, AND INSTALL DECK AND EMBEDDED PARAPET AND CURB REINFORCING. POUR CONCRETE DECK.
- 23. INSTALL REMAINDER OF CONNECTION BOLTS AT THE DIAPHRAGMS AT GIRDER 3 (SEE "STEEL DIAPHRAGM DETAILS 2" SHEET).
- 24. FORM PARAPET AND CURB AND INSTALL PARAPET AND CURB REINFORCING. POUR CONCRETE PARAPET AND CURB.
- 25. REMOVE TEMPORARY HOLD DOWN.CUT/BURN OFF ANCHOR BOLT FLUSH WITH TOP OF EXISTING CONCRETE.
- 26. FIELD PAINT PORTIONS OF STRUCTURE IN HEAT STRAIGHTENED AREAS AND OTHER AREAS WHERE PAINT WAS REMOVED AND APPLY FINISH COATS AT FIELD SPLICE LOCATIONS.
- 27. RESET STOCKPILED ALUMINUM RAILING TO THE EXTENTS SHOWN ON THE PLANS.PROVIDE NEW NEOPRENE PAD/GASKETS UNDER RAILING POST.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

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.

BEVEL EXPOSED EDGES OF CONCRETE $rac{3}{4}$ " UNLESS OTHERWISE NOTED.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF REPLACED DECK SURFACE.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF NEW PARAPET.

THE COLOR OF THE FINISH EPOXY TOP COAT SHALL BE LIGHT GRAY (AMS STANDARD COLOR NO. 26293) OR SIMILAR COLOR APPROVED BY THE ENGINEER.

ALL FIELD CONNECTIONS SHALL BE MADE WITH $\frac{1}{4}$ " DIAMETER A325 HIGH-TENSILE STRENGTH BOLTS UNLESS OTHERWISE SHOWN OR NOTED.

TEMPORARY HOLD DOWN REQUIRED AT EAST ABUTMENT - GIRDER 4 (INSTALL PRIOR TO REMOVING COUNTERWEIGHT).

MATCH NEW PARAPET AND CURB TO EXISTING PARAPET AND CURB.

MATCH NEW DECK TO EXISTING DECK.

NEW STEEL PIECES TO BE SHOP PAINTED AND PAID FOR UNDER BID ITEM "PAINTING EPOXY SYSTEM B-27-53".

FIELD PAINTING OF EXISTING STEEL SHALL BE PAID FOR UNDER THE BID ITEM "STRUCTURE OVERCOATING CLEANING AND PRIMING B-27-53".

SALVAGE THE EXISTING EXPANSION DEVICE AND INCORPORATE INTO THE NEW PORTION OF THE DECK INCLUDE COST TO INCORPORATE INTO THE NEW DECK UNDER BID ITEM "CONCRETE MASONRY BRIDGES".

ALL CONSTRUCTION RELATED MATERIALS AND EQUIPMENT, SHALL BE REMOVED FROM THE STRUCTURE DURING THE FOLLOWING PERIODS:

- FROM THE TIME JUST BEFORE THE EXISTING FIELD SPLICE PLATES/BOLTS OF THE GIRDER ARE REMOVED UNTIL THE NEW GIRDER SECTION WITH ALL NEW FIELD SPLICE PLATES/BOLTS HAVE BEEN INSTALLED.
- 2. FROM THE TIME JUST BEFORE THE EXISTING DIAPHRAGMS ARE DISCONNECTED UNTIL THE NEW DIAPHRAGM CONNECTIONS AND DIAPHRAGMS ARE INSTALLED.
- 3. FROM THE TIME JUST BEFORE THE BOTTOM COVER PLATES ARE PARTIALLY REMOVED UNTIL AFTER THE RETROFIT COVER PLATES ARE FULLY INSTALLED.
- 4. FROM THE TIME JUST AFTER THE DECK POUR (PRIOR TO DECK TAKING ITS INITIAL SET) UNTIL THE REQUIREMENTS OF SECTION 502.3.10 OF THE STANDARD SPECIFICATIONS ARE MET.

SEE ROADWAY PLANS FOR TRAFFIC CONTROL REQUIREMENTS AND CLOSURES. WORK THESE STRUCTURE PLANS AND CONSTRUCTION SEQUENCING WITH TRAFFIC CONTROL REQUIREMENTS AND CLOSURES LISTED THEREIN.

A DAMAGE INSPECTION REPORT FOR B-27-0053, INCLUDING NON-DESTRUCTIVE TESTING RESULTS, WAS PREPARED BY FICKETT STRUCTURAL SOLUTIONS DATED JANUARY 8, 2021 AND IS AVAILABLE FROM THE DEPARTMENT UPON REQUEST.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
203.0200	REMOVING OLD STRUCTURE STA. 126+63	LS	1
203.0215.S	ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-27-53	LS	1
502.0100	CONCRETE MASONRY BRIDGES	CY	19
502.3200	PROTECTIVE SURFACE TREATMENT	SY	66
502.3210	PIGMENTED SURFACE SEALER	SY	22
502.4106	ADHESIVE ANCHORS 3/4-INCH	EACH	1
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	5,710
506.0105	STRUCTURAL STEEL CARBON	LB	4,400
506.0605	STRUCTURAL STEEL HS	LB	12,640
513.9005.S	REMOVING AND RESETTING TUBULAR RAILING B-27-53	LS	1
517.0600	PAINTING EPOXY SYSTEM B-27-53	LS	1
517.3000.S	STRUCTURE OVERCOATING CLEANING AND PRIMING B-27-53	LS	1
517.4000.S	CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-27-53	LS	1
SPV.0060.01	WELDED STUD SHEAR CONNECTORS 3/4x3-INCH	EACH	342
SPV.0105.01	HEAT STRAIGHTENING OF DAMAGED GIRDERS	LS	1
SPV.0105.02	COUNTERWEIGHT STRUCTURE	LS	1

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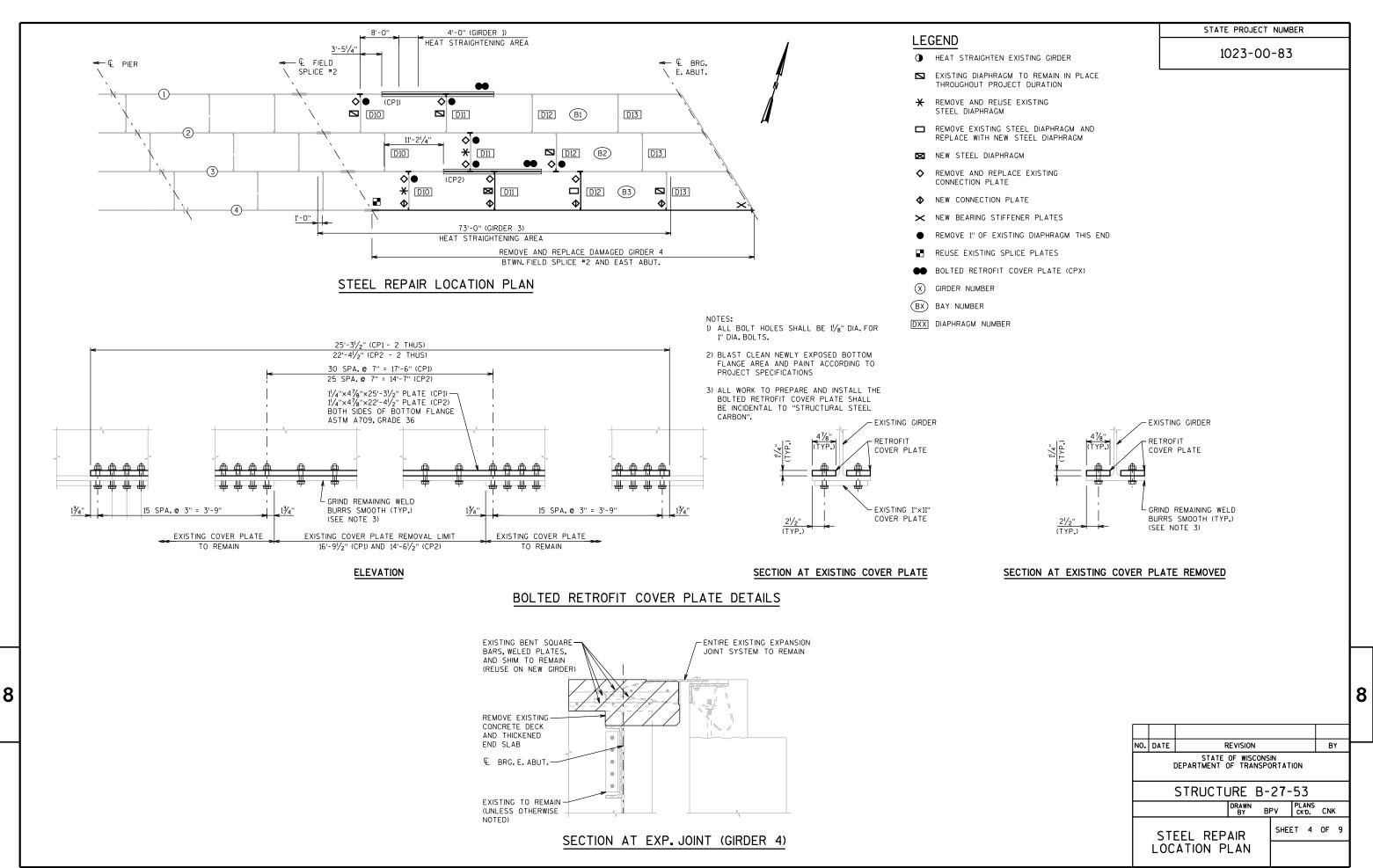
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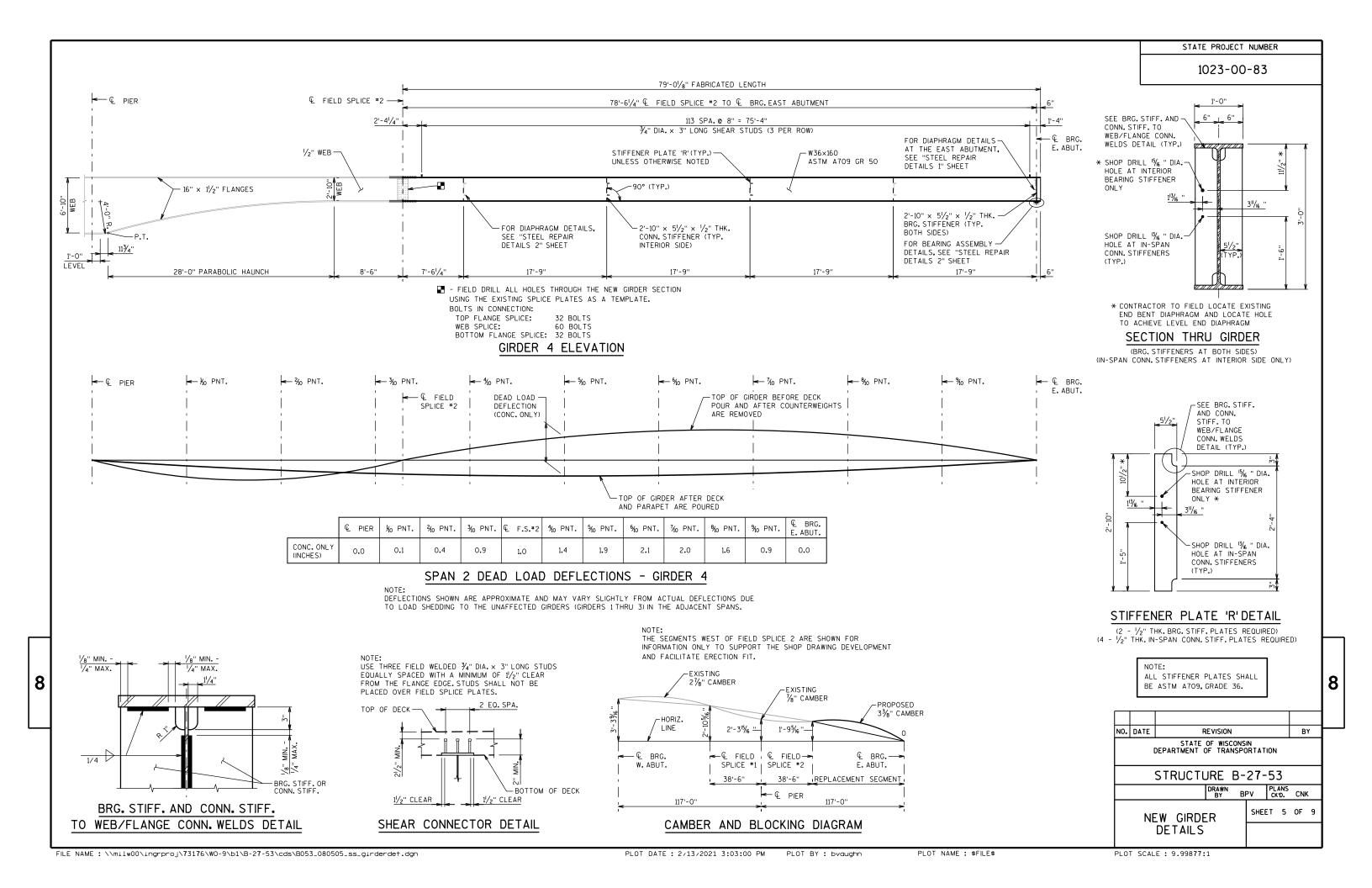
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-27-53

DRAWN BY BPV PLANS CKD. CNK

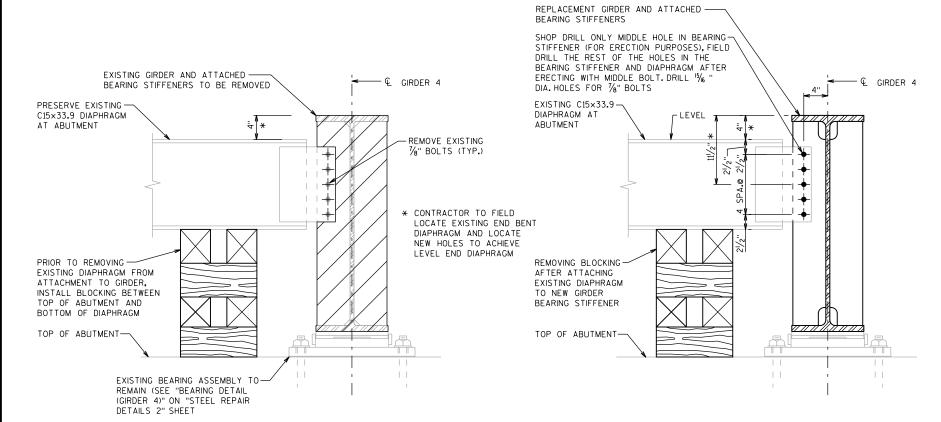
GENERAL AND SEQUENCING NOTES, AND QUANTITIES





STATE PROJECT NUMBER

1023-00-83



REMOVAL DETAIL AT ABUTMENT DIAPHRAGM

(THIS SHALL BE INCLUDED IN BID ITEM "REMOVING OLD STRUCTURE STA. 126+63")

REPLACEMENT DETAIL AT ABUTMENT DIAPHRAGM

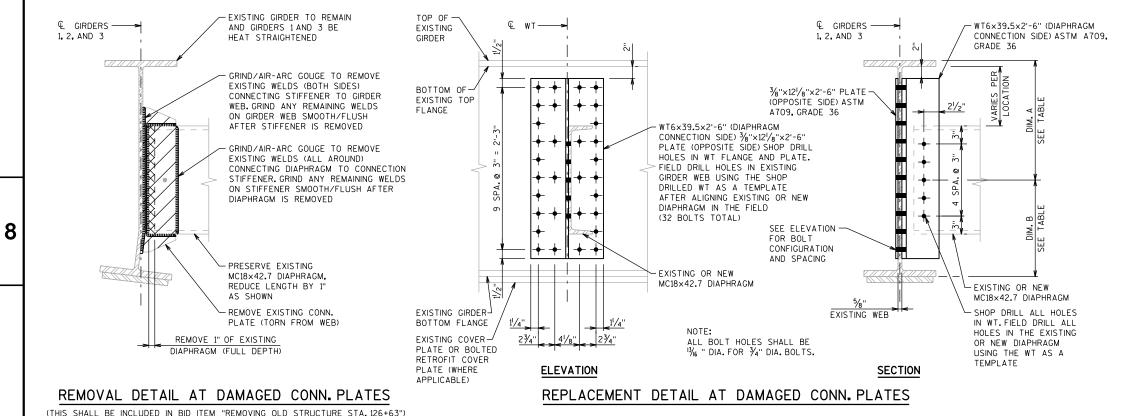
NOTES

FOR STEEL REPAIR LOCATIONS, SEE "STEEL REPAIR LOCATION PLAN" SHEET.

FOR ADDITIONAL DIAPHRAGM DETAILS, SEE "STEEL REPAIR DETAILS 2" SHEET.

DIAPHRAGM DIMENSION TABLE

BEAM NO.	DIAPHRAGM NO.	BAY NO.	DIM. A	DIM. B
1	D10	B1	1'-6"	1'-6"
1	D11	B1	1'-6"	1'-6"
2	D11	B2	1'-6"	1'-6"
3	D11	B2	1'-6"	1'-6"
3	D12	B2	1'-6"	1'-6"
3	D10	В3	1'-6 ¹⁵ / ₁₆ ''	1'-41/16"
3	D11	B3	1'-6'5/16 ''	1'-4 ¹ / ₁₆ "
3	D12	В3	1'-6 ¹⁵ / ₁₆ ''	1'-4 ¹ / ₁₆ "



NO. DATE REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-27-53 DRAWN BPV PLANS CNK SHEET 6 OF 9 STEEL REPAIR DETAILS 1

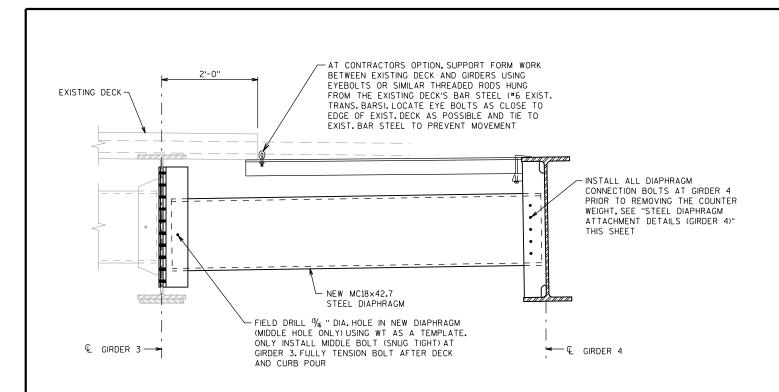
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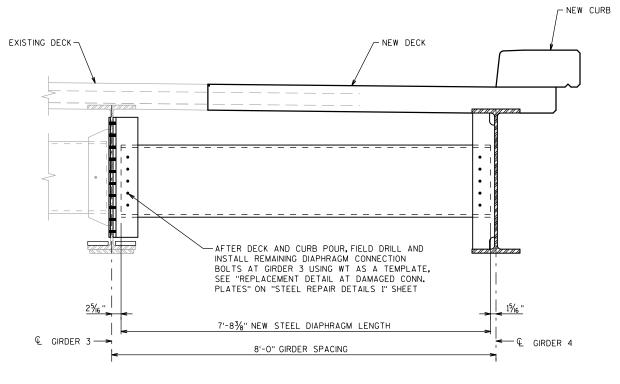
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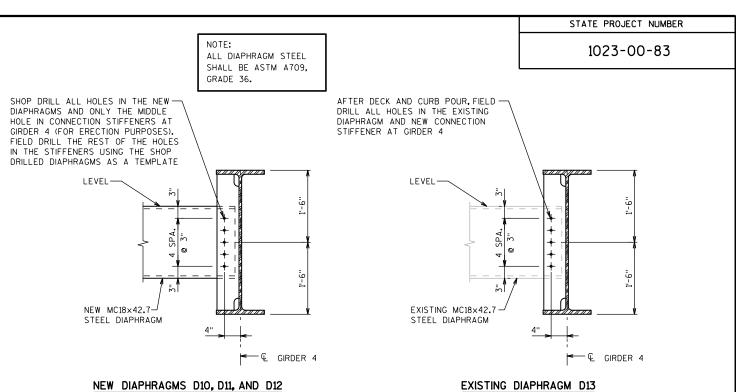
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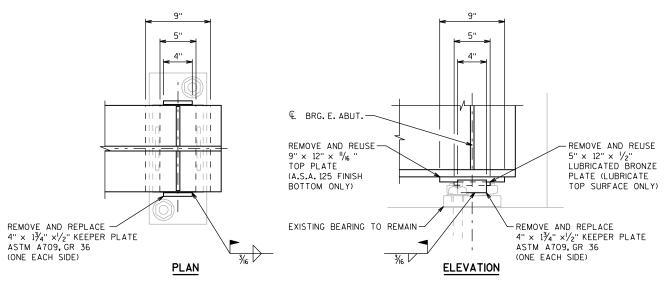
PARTIAL SECTION - BEFORE DECK POUR



PARTIAL SECTION - AFTER DECK AND CURB POUR



STEEL DIAPHRAGM ATTACHMENT DETAILS (GIRDER 4)



BEARING DETAIL (GIRDER 4)

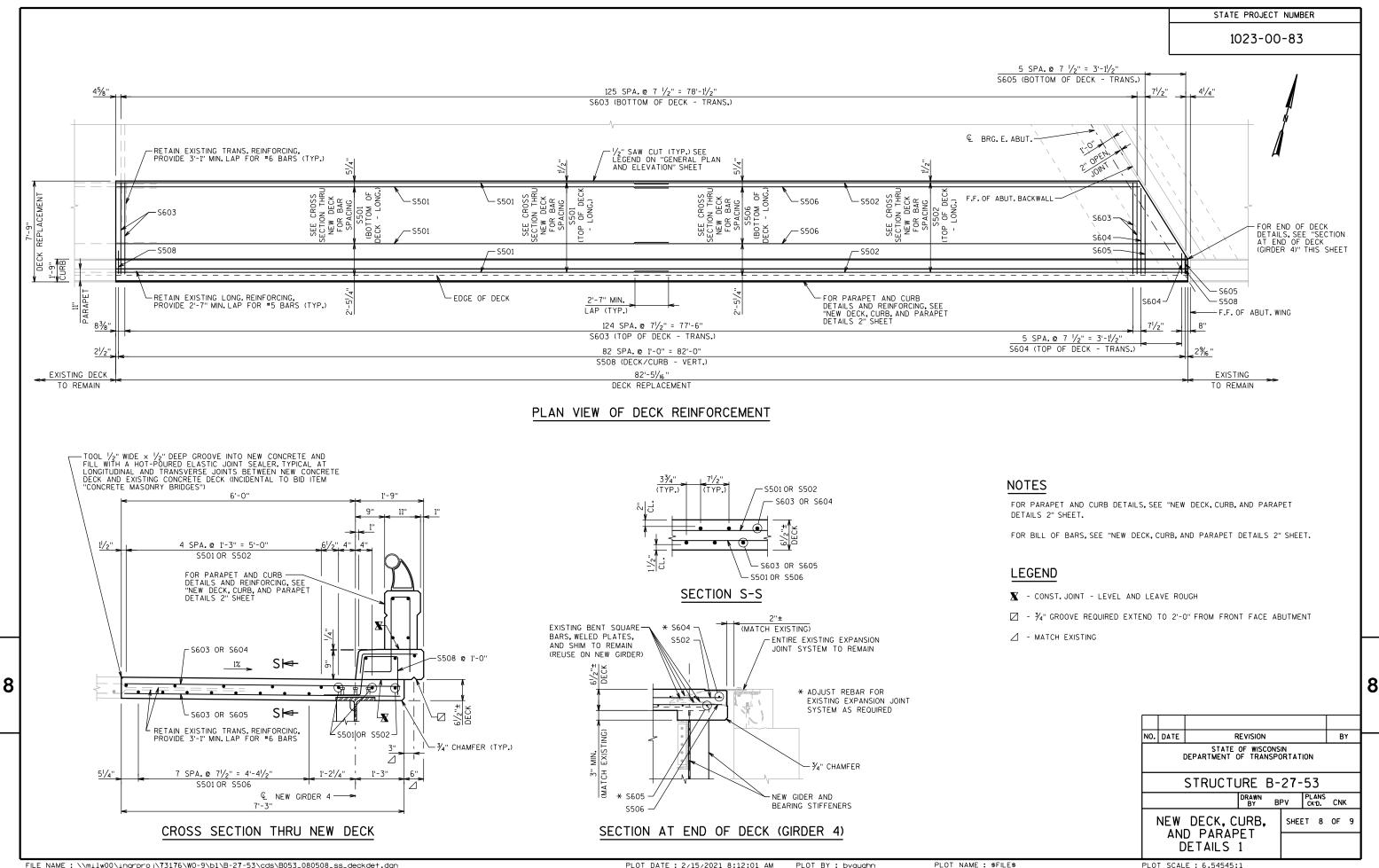
NOTES

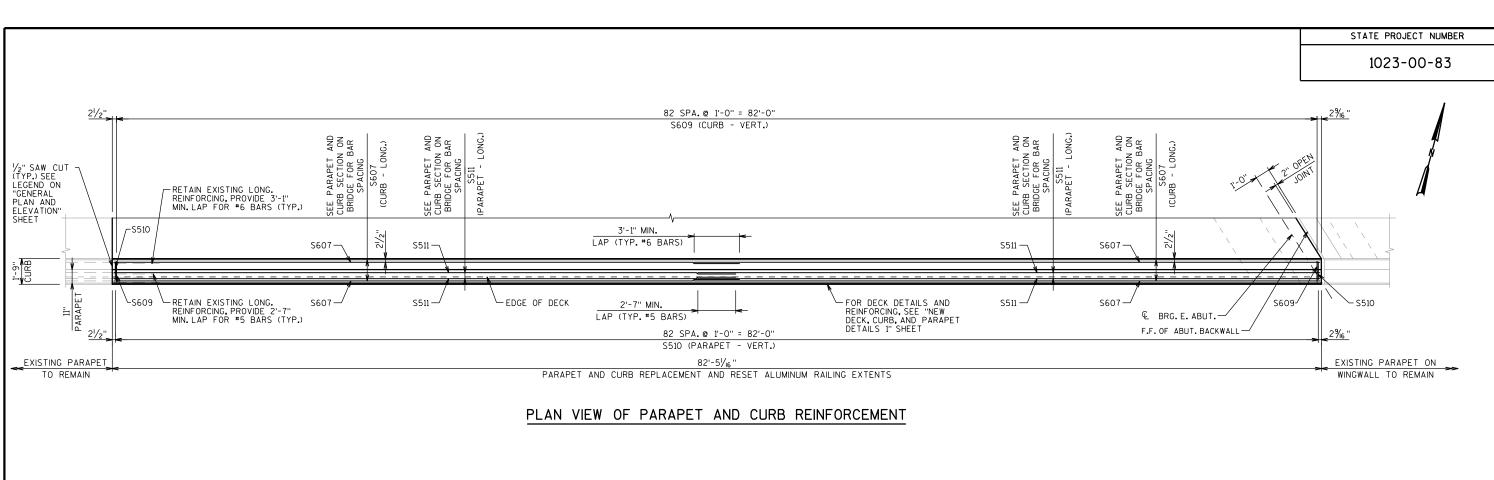
FOR STEEL REPAIR LOCATIONS, SEE "STEEL REPAIR LOCATION PLAN" SHEET.

FOR ADDITIONAL DIAPHRAGM DETAILS, SEE "STEEL REPAIR DETAILS 1" SHEET.

NO.	O. DATE REVISION							В	Y	Г
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION										
STRUCTURE B-27-53										
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STEEL REPAIR					SHEE	T	7	OF	9	
	DETAILS 2									

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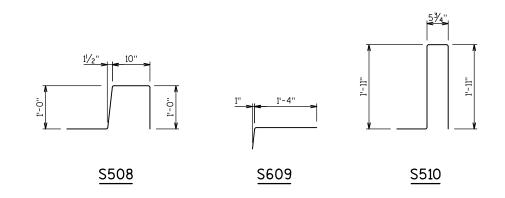


BILL OF BARS

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

△ LENGTH SHOWN FOR BAR IS AN AVG.LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR MARK	C047	NO. REQ'D.	LENGTH	BENZ	SERIES	LOCATION
S501	Х	16	42'-4"			DECK - TOP AND BOTTOM LONG.
S502	Х	8	40'-10"		Δ	DECK - TOP LONG.
S603	Х	251	6'-9"			DECK - TOP AND BOTTOM TRANS.
S604	Х	6	4'-1"		Δ	DECK - TOP TRANS.
S605	Х	6	3'-7"		Δ	DECK - BOTTOM TRANS.
S506	Χ	8	40'-2"		Δ	DECK - BOTTOM LONG.
S607	Х	6	42'-7"			CURB - LONG.
S508	Χ	83	3'-9"	Х		DECK/CURB - VERT.
S609	Х	83	1'-9"	Х		CURB - VERT.
S510	Х	83	5'-0"	Х		CURB/PARAPET - VERT.
S511	Х	8	42'-4"			PARAPET - LONG.



BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTH
S502	1 SET OF 8	38'-8" TO 43'-0"
S604	1 SET OF 6	1'-7" TO 6'-7"
S605	1 SET OF 6	1'-1" TO 6'-1"
S506	1SET OF 8	38'-9" TO 41'- 7 "

BUNDLE AND TAG EACH SERIES SEPARATELY.

NOTE

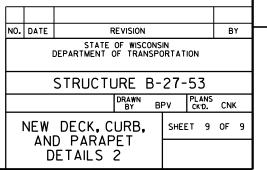
FOR DECK DETAILS, SEE "NEW DECK, CURB, AND PARAPET DETAILS 1" SHEET.

LEGEND

X - CONST. JOINT - LEVEL AND LEAVE ROUGH

☐ - ¾" GROOVE REQUIRED EXTEND TO 2'-0" FROM FRONT FACE ABUTMENT

∠ - VERIFY DIMENSION IN FIELD



8

PARAPET AND CURB SECTION ON BRIDGE

 $\overline{\Delta}$

¾" GROOVE

S609 @ 1'-0"

€ NEW GIRDER 4 ---

FOR DECK DETAILS AND—
REINFORCING, SEE "NEW
DECK, CURB, AND PARAPET
DETAILS 1" SHEET

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3 - 6SO7 SPA. AS SHOWN (TOP - CURB)

- RESET ALUMINUM RAILING TO THE EXTENTS SHOWN ON THE PLAN. PROVIDE NEW NEOPRENE PAD/CASKETS UNDER RAILING POST (TYP.)

3/4" CHAMFER (TYP.)

-S510 @ 1'-0"

21/8" CL.



Wisconsin Department of Transportation

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