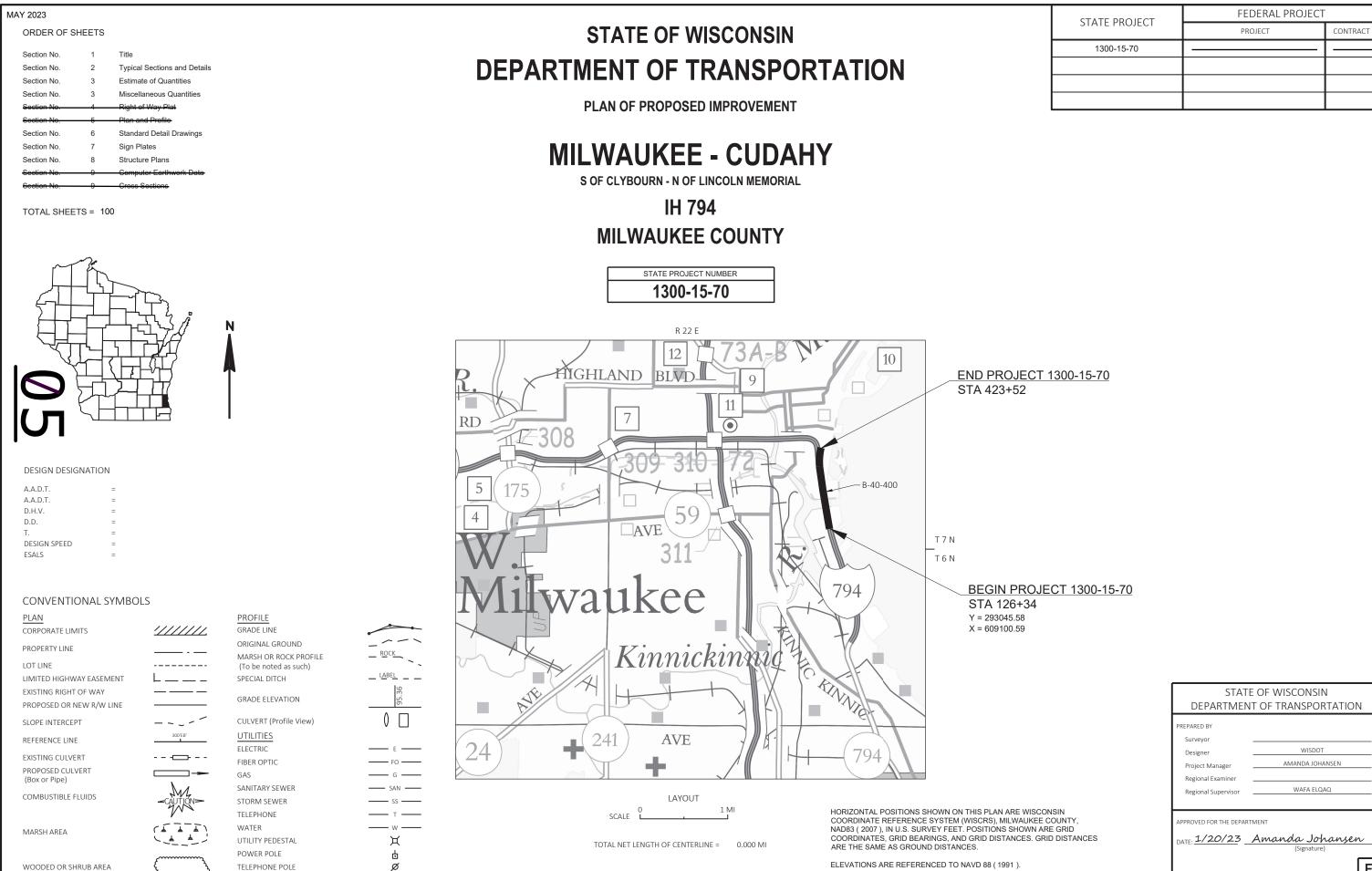
300-15-70

MILWAUKE



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GENERAL NOTES

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

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES AND UTILITY CONTACTS PROJECT OVERVIEW PAVEMENT MARKING & EROSION CONTROL TRAFFIC CONTROL ALIGNMENT LAYOUT

OTHER CONTACTS

WISCONSIN DEPARTMENT OF TRANSPORTATION

AMANDA JOHANSEN - PROJECT MANAGER 141 NW BARSTOW ST WAUKESHA, WI 53187 PHONE: (262) 521-4465 amanda.johansen@dot.wi.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION

TOMMY CURRAN **ENVIRONMENTAL COORDINATOR** 141 NW BARSTOW ST WAUKESHA, WI 53187 PHONE: (262) 548-5682 thomas1.curran@dot.wi.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION

AMANDA WILKER UTILITY COORDINATOR 141 NW BARSTOW ST WAUKESHA, WI 53187 PHONE: (262) 548-6478 CELL: (507) 676-4719 amanda.wilker@dot.wi.gov

MILWAUKEE COUNTY TRANSIT SYSTEM (MCTS)

1942 N 17TH ST MILWAUKEE, WI 53205

ARMOND SENSABAUGH TRANSPORTATION COORDINATOR (DETOURS) PHONE: (414) 343-1728 asensabaugh@mcts.org

DAVID LOCHER TRANSPORTATION MANAGER (BUS STOPS) PHONE: (414) 343-1727

FILE NAME

LIGHT THE HOAN

MICHAEL HOSTAD 204 E CALUMET ROAD FOX POINT, WI 53217 PHONE: (414) 651-3141 michael@lightthehoan.com

PORT OF MILWAUKEE - RAILROAD FACILITY

BRIAN KASPRZYK 2323 S LINCOLN MEMORIAL DR MILWAUKEE, WI 53207 PHONE: (414) 286-8141 CELL: (414) 708-4213 bkaspr@milwaukee.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION -COMMUNICATION LINE

JOHN MITTELSTADT 433 W. ST. PAUL AVE SUITE 300 MILWAUKEE, WI 53203-3007 PHONE: (608) 205-7859 john.mittelstadt@dot.wi.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION STREET LIGHTING

ERIC PEREA 141 NW BARSTOW STREET WAUKESHA, WI 53188 PHONE: (262) 574-5422 Eric.Perea@dot.wi.gov

UTILITY CONTACTS

AT&T WISCONSIN - COMMUNICATION LINE

MATHEW DINNAUER 435 S. 95TH ST MILWAUKEE, WI 53214-1226 PHONE: (262) 237-0042 md9542@att.com

CITY OF MILWAUKEE - COMMUNICATION LINE

JOE MACIEJEWSKI 841 N BROADWAY, ROOM 501 MILWAUKEE, WI 53202 PHONE: (414) 708-7992 jmacie@milwaukee.gov

CITY OF MILWAUKEE - SEWER

ZAFAR YOUSUF 841 N BROADWAY MILWAUKEE, WI 53202 PHONE: (414) 286-2467 zyousu@milwaukee.gov

CITY OF MILWAUKEE - STREET LIGHTING

MARK MACRAE 1540 W CANAL STREET MILWAUKEE, WI 53233 PHONE: (414) 286-5928 CELL: (414) 708-0734 mwray@milwaukee.gov

CITY OF MILWAUKEE - WATER

MILWAUKEE WATER WORKS CONTROL CENTER 841 N BROADWAY, ROOM 409 MILWAUKEE, WI 53202 PHONE: (414) 286-3710

CITY OF MILWAUKEE - WISCONSIN SIGNAL

RUDY GUTIERREZ 1540 W CANAL STREET MILWAUKEE, WI 53233 PHONE: (414) 286-5941 CELL: (414) 708-5148 rudy.gutierrez@milwaukee.gov

CITY OF MILWAUKEE - UNDERGROUND CONDUIT

KAREN ROGNEY 841 N BROADWAY MILWAUKEE, WI 53202 PHONE: (414) 286-3243 krogne@milwaukee.gov

LEVEL 3 COMMUNICATIONS LLC - COMMUNICATION LINE

BRAHIM GADDOUR 3235 INTERTECH DR, SUITE 600 BROOKFIELD, WI 53045 PHONE: (414) 908-1027 CELL: (414) 704-1026 brahim.gaddour@lumen.com

MILWAUKEE METROPOLITAN SEWERAGE DISTRICT - SEWER

MICKI KLAPP-SULLIVAN 260 W SEEBOTH ST MILWAUKEE, WI 53204 PHONE: (414) 225-2178 CELL: (414) 416-5689 MKlappaSullivan@mmsd.com

SPECTRUM - COMMUNICATION LINE

CHARLES BRASILE 1320 N DR MARTIN LUTHER KING JR DR MILWAUKEE, WI 53212 PHONE: (414) 908-4822 CELL: (414) 430-5812 charles.brasile@charter.com

WE ENERGIES - ELECTRICITY

ALEX DANTINNE 500 S 116TH ST WEST ALLIS, WI 53214 PHONE: (920) 621-6903 alex.dantinne@we-energies.com

WE ENERGIES - GAS/PETROLEUM

ALEX DANTINNE 500 S 116TH ST WEST ALLIS, WI 53214 PHONE: (920) 621-6903 alex.dantinne@we-energies.com

WEST SHORE PIPE LINE COMPANY- GAS/PETROLEUM

ARIC AUFDERMAUER FIVE TEK PARK, 9999 HAMILTON BLVD BREINIGSVILLE, PA 18031 PHONE: (414) 391-8102 aaufdermauer@buckeye.com



PROJECT NO: 1300-15-70

\\WKERTOVFILPI01\N3PUBLIC\PDS\C3D\13001500\SHEETSPLAN\020101 GN.DWG

HWY: IH 794

COUNTY: MILWAUKEE

GENERAL NOTES & UTILITY CONTACTS

3/27/2023 2:56 PM

JOHANSEN, AMANDA A

PLOT NAME

1 IN:100 FT

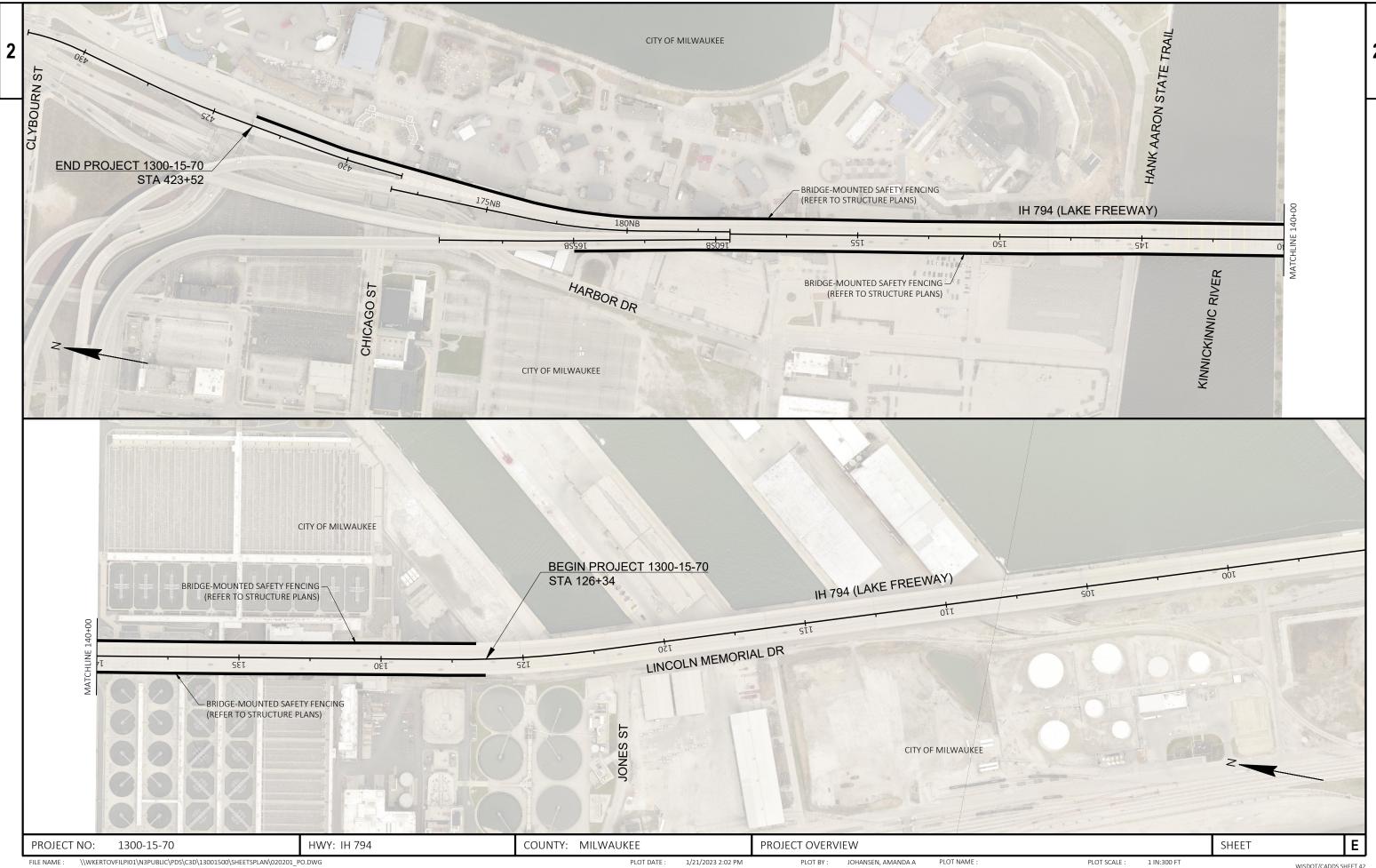
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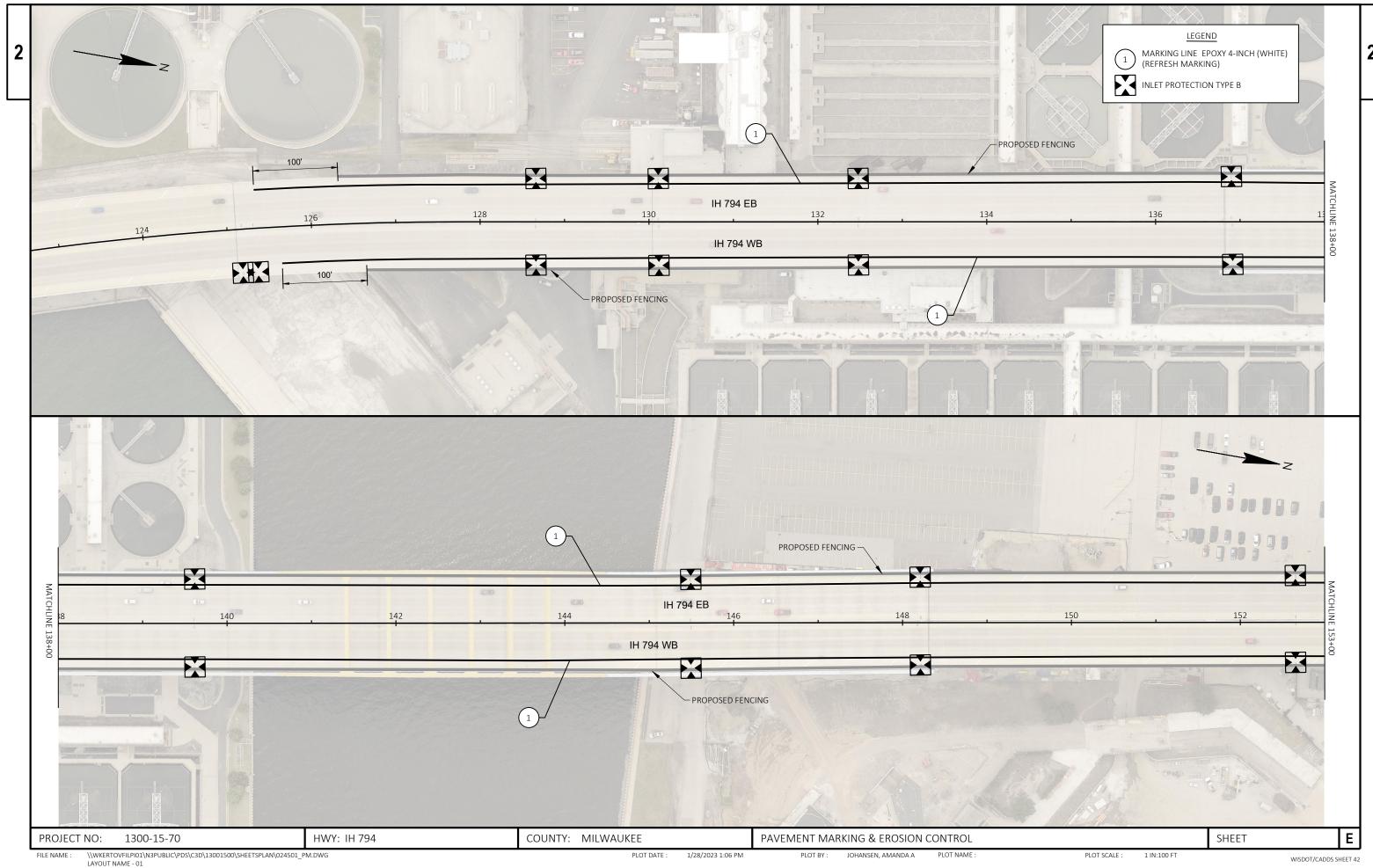
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PLOT DATE :

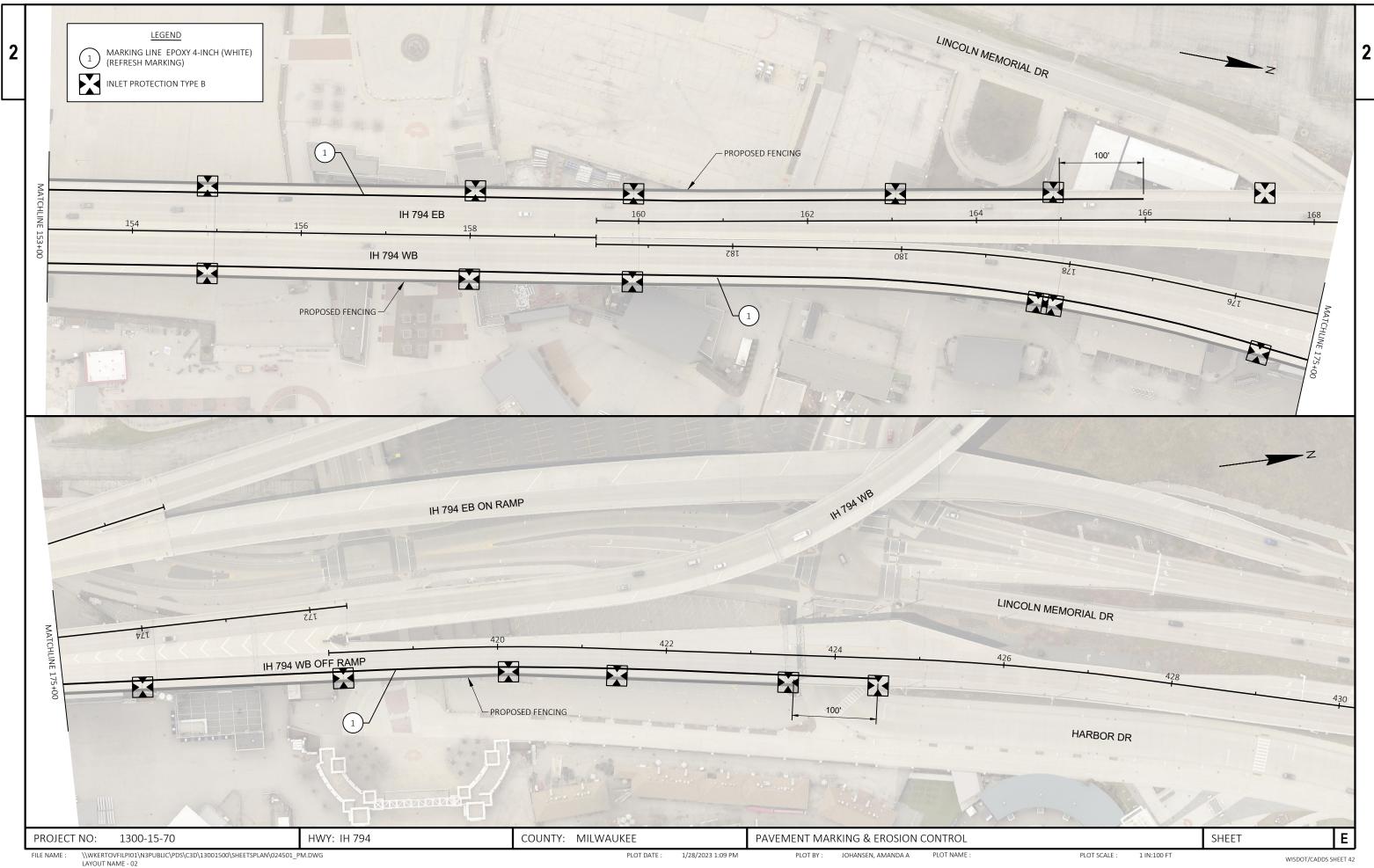
PLOT SCALE :

WISDOT/CADDS SHEET 42

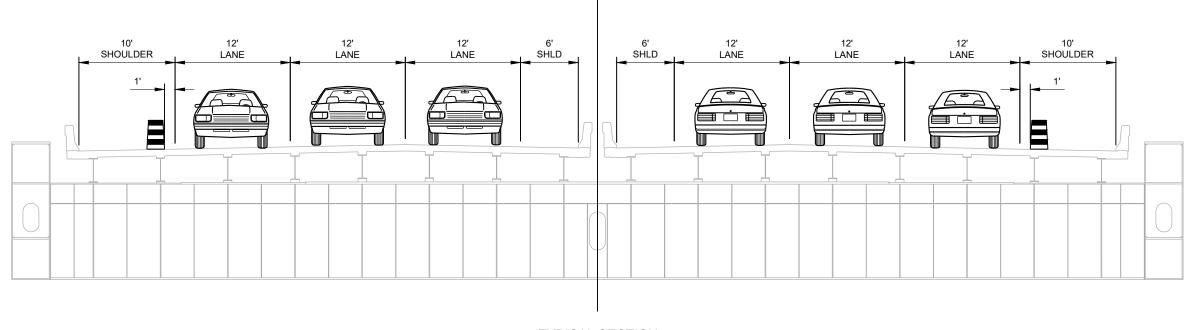




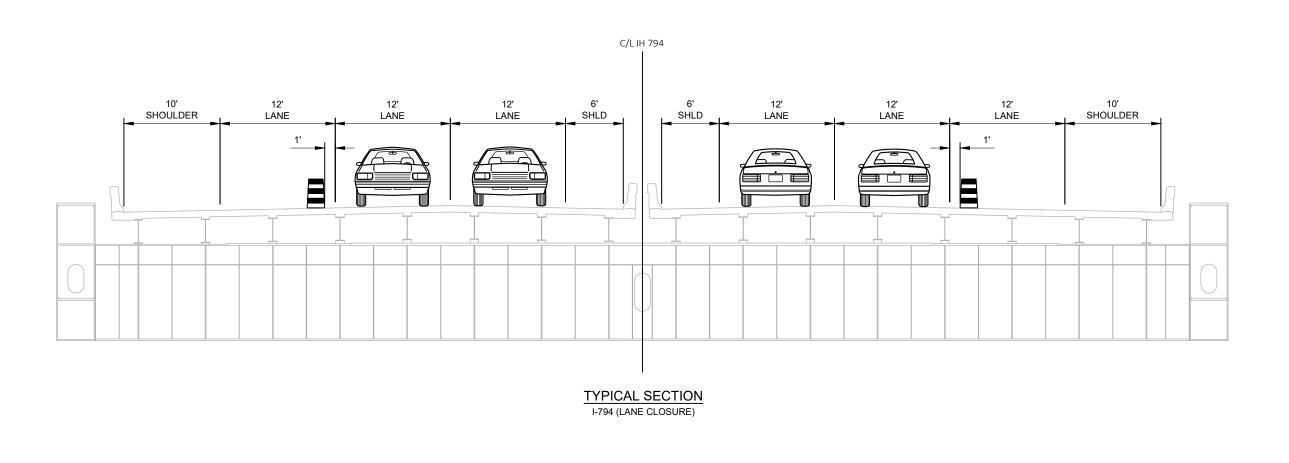
WISDOT/CADDS SHEET 42



2 C/LIH 794



TYPICAL SECTION
I-794 (SHOULDER CLOSURE)



FILE NAME: N:\PDS\C3D\13001500\\$HEETSPLAN\025100_TC.DWG PLOT DATE: 1/6/2022 5:20 PM PLOT BY: JOHANSEN, AMANDA PLOT NAME: PLOT NAME: 1 IN:10 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 025100_tc

TRAFFIC CONTROL - TYPICALS

COUNTY: MILWAUKEE

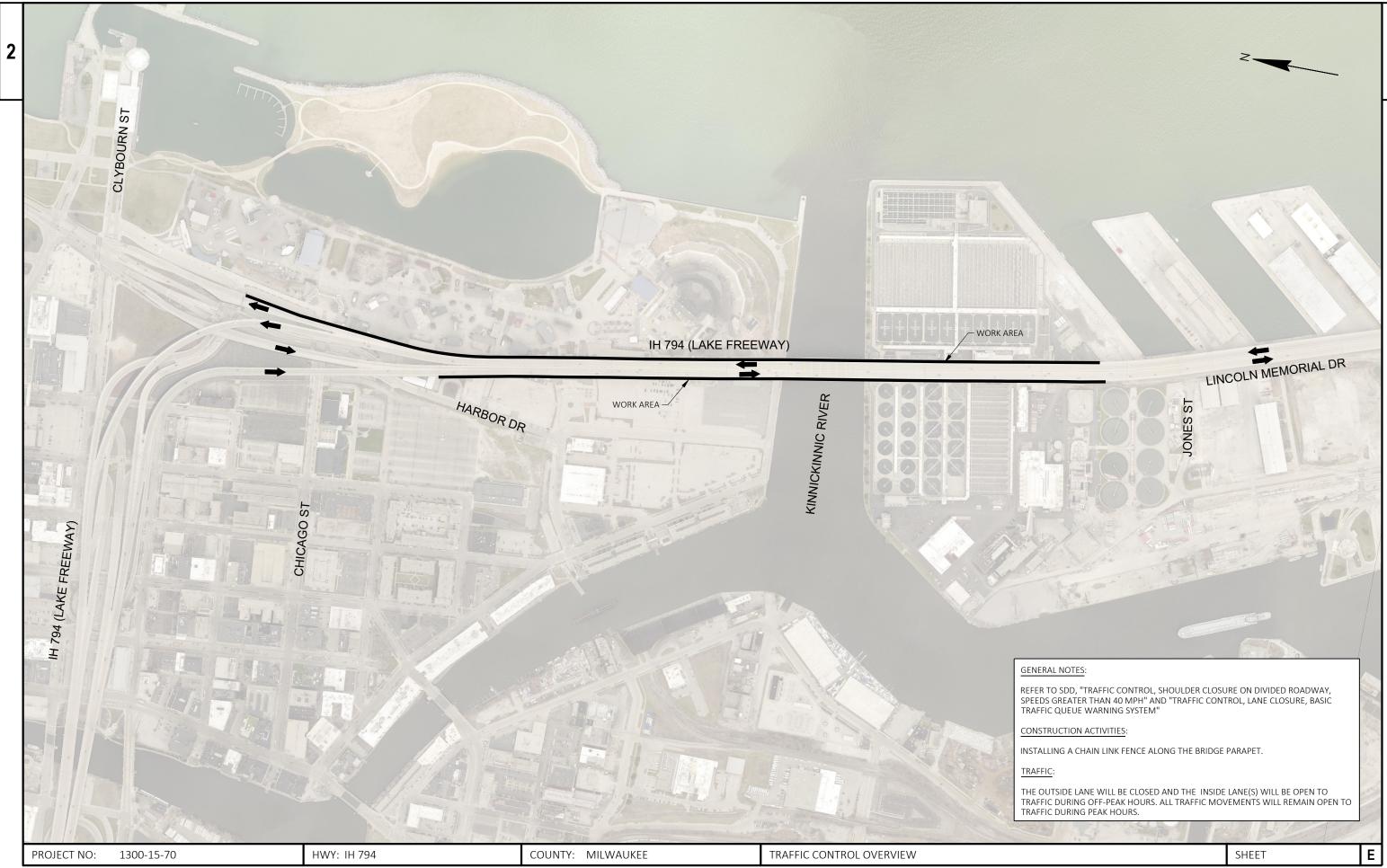
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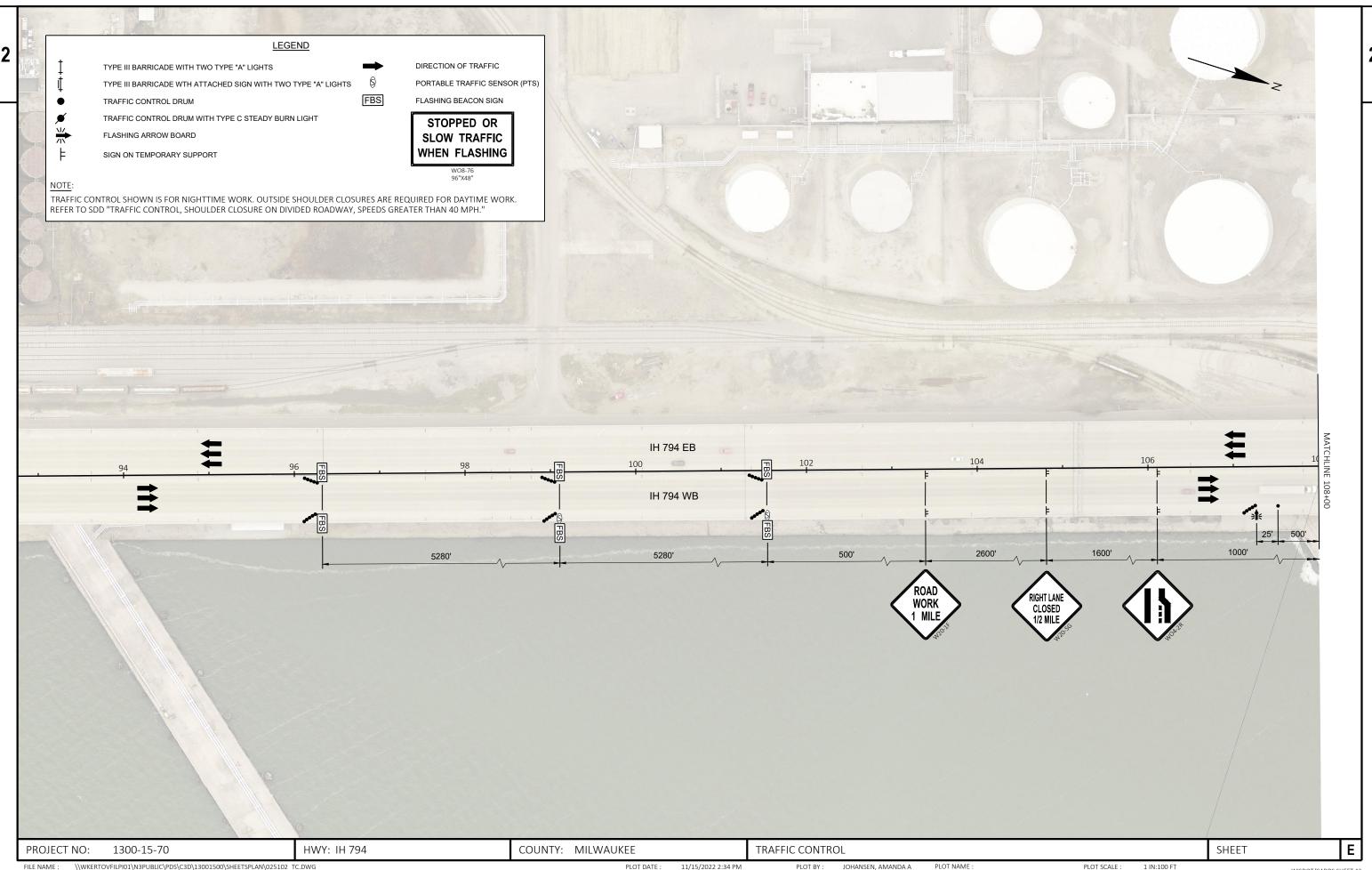
LAYOUT NAME - 025100_tc

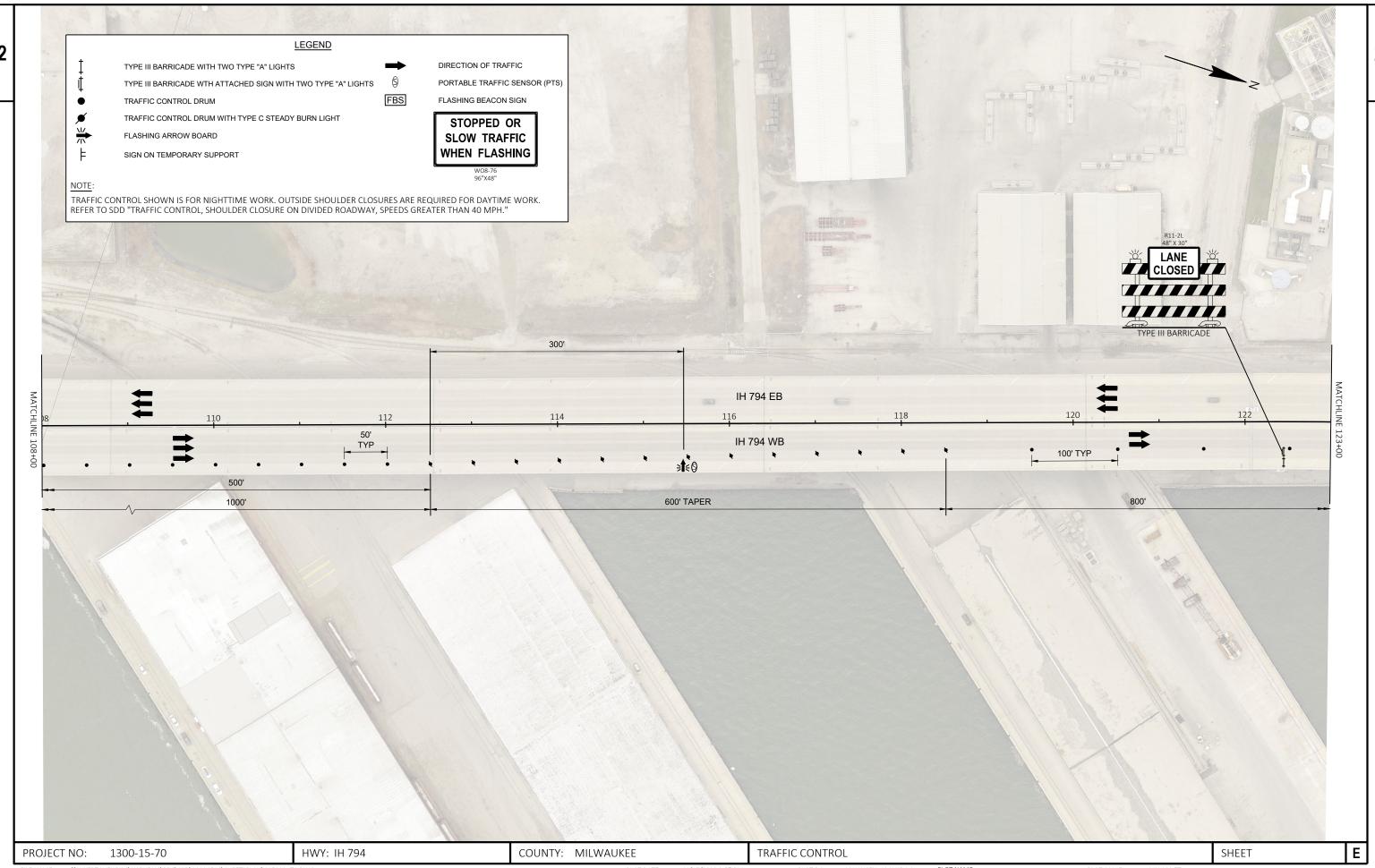
PROJECT NO: 1300-15-70

HWY: IH 794

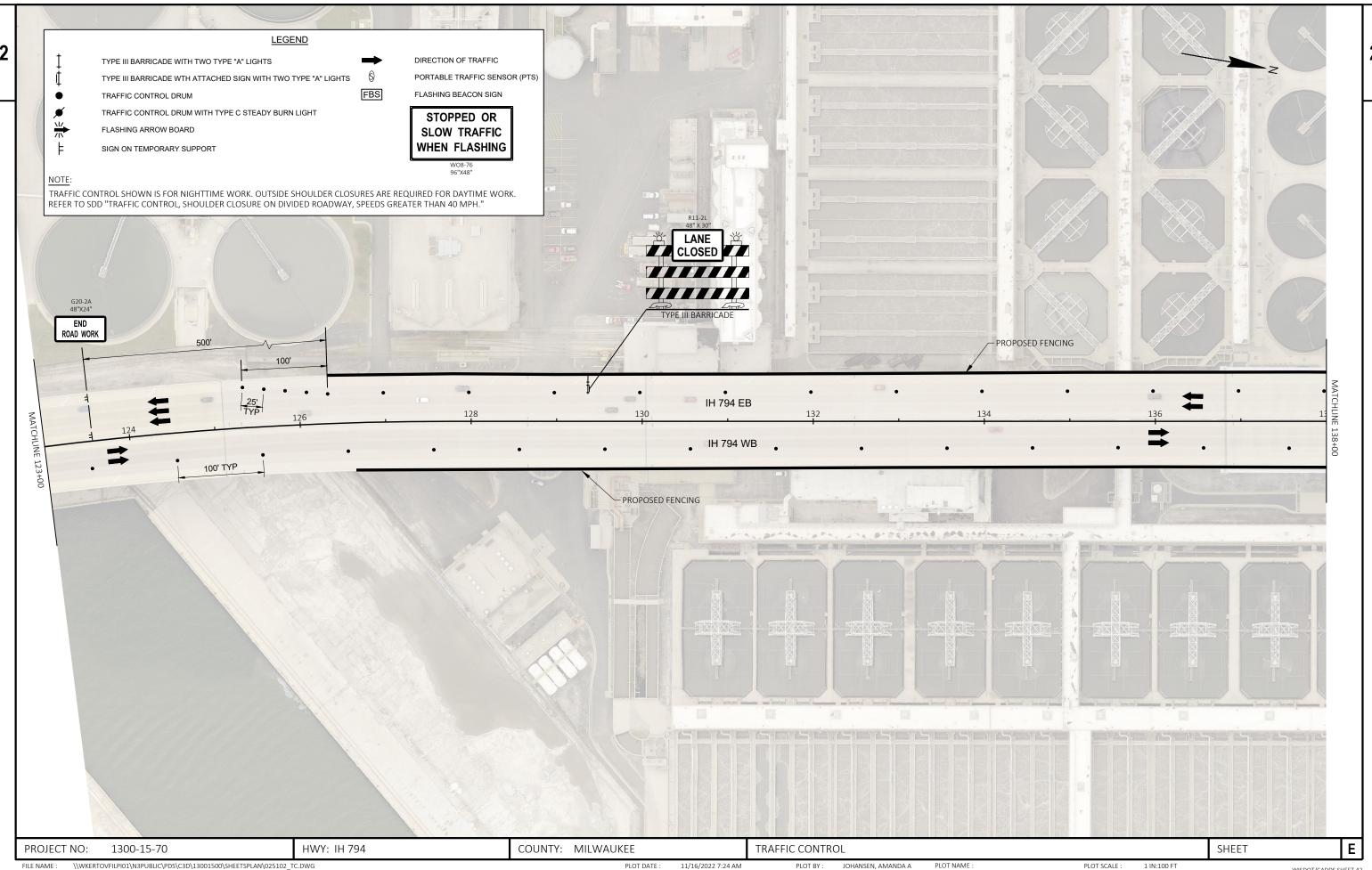


FILE NAME: N:\PDS\C3D\13001500\\$HEETSPLAN\025101_TC.DWG PLOT DATE: 2/17/2022 11:51 AM PLOT BY: JOHANSEN, AMANDA A PLOT NAME: PLOT SCALE: 1 IN:500 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 020201

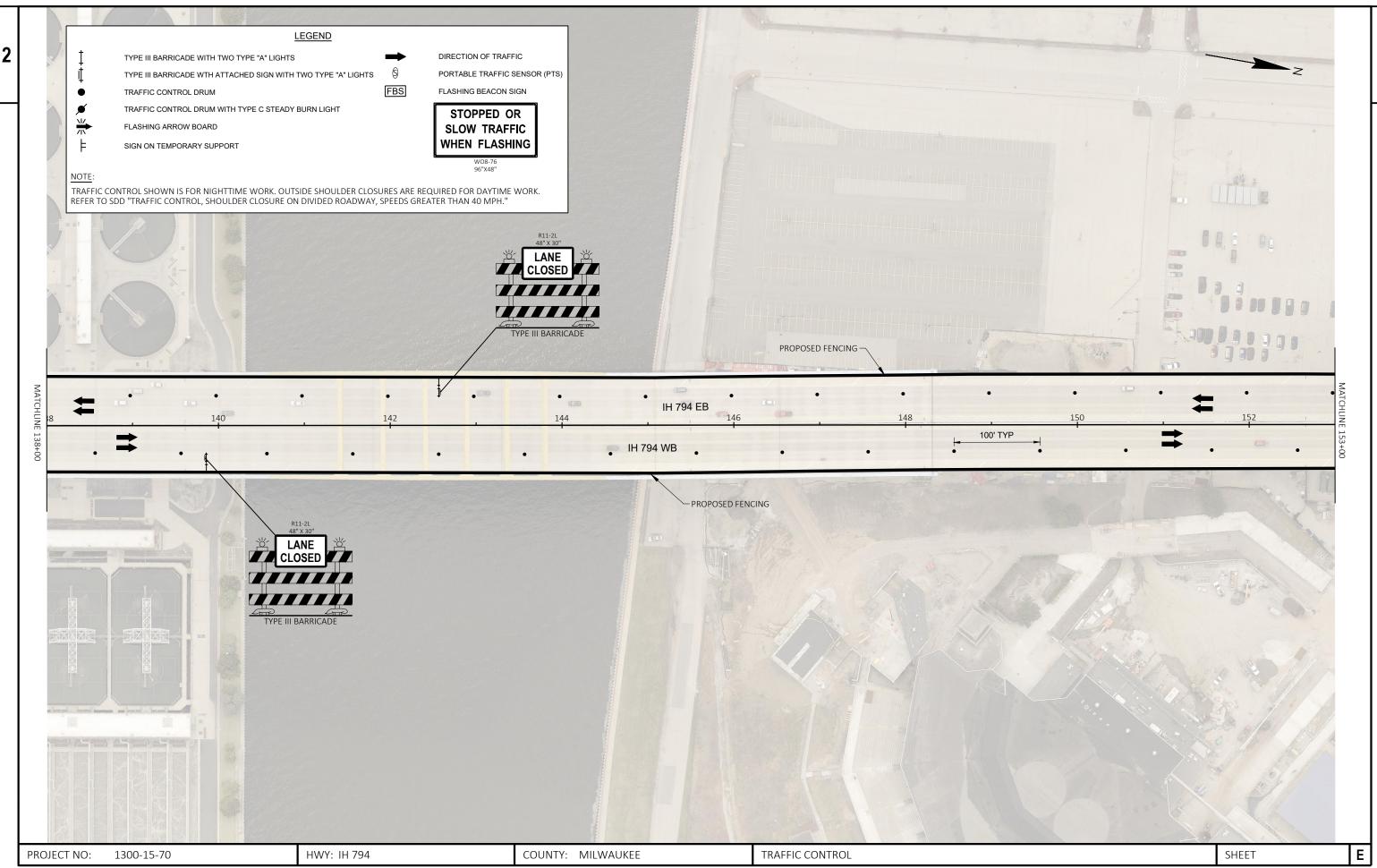




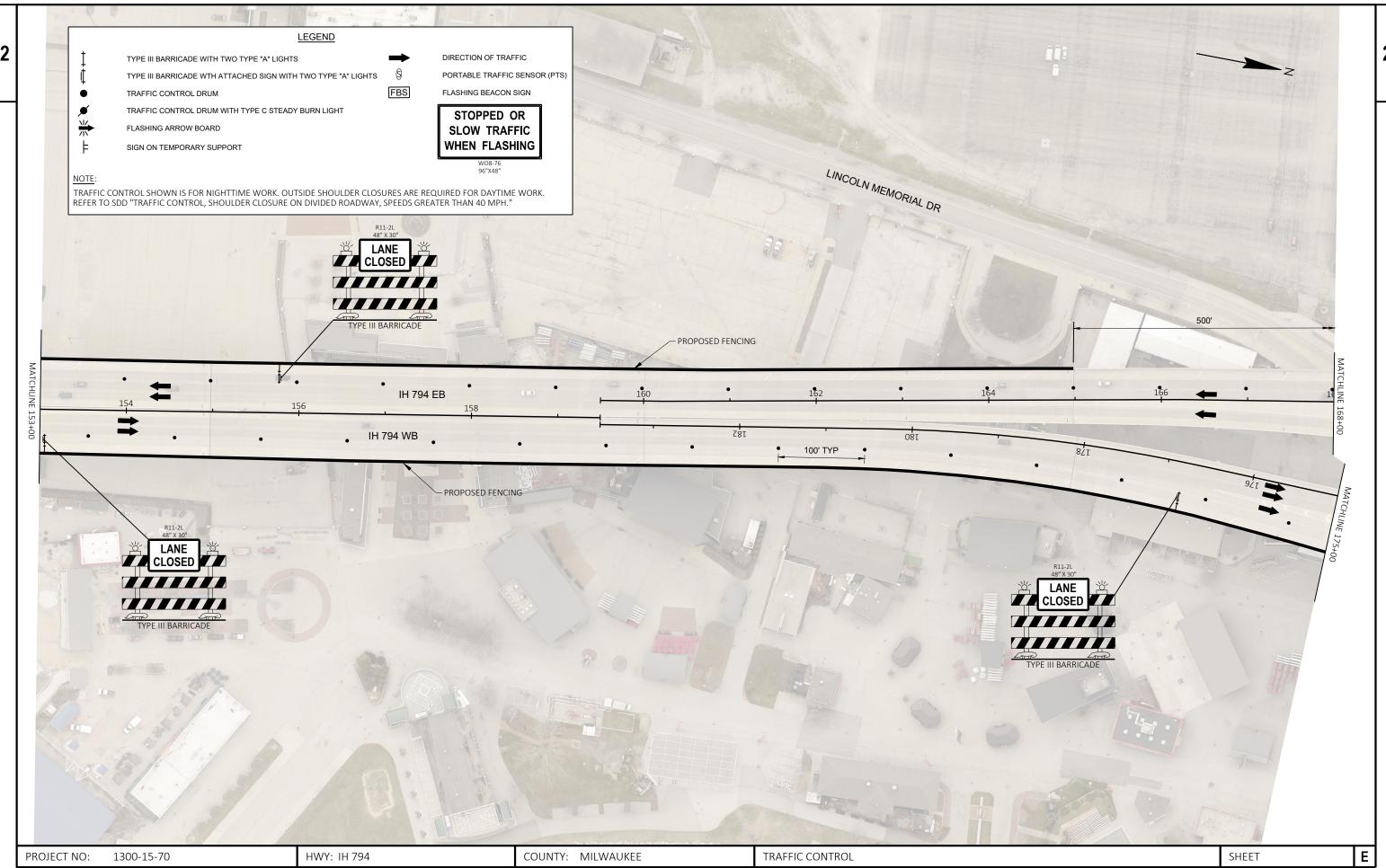
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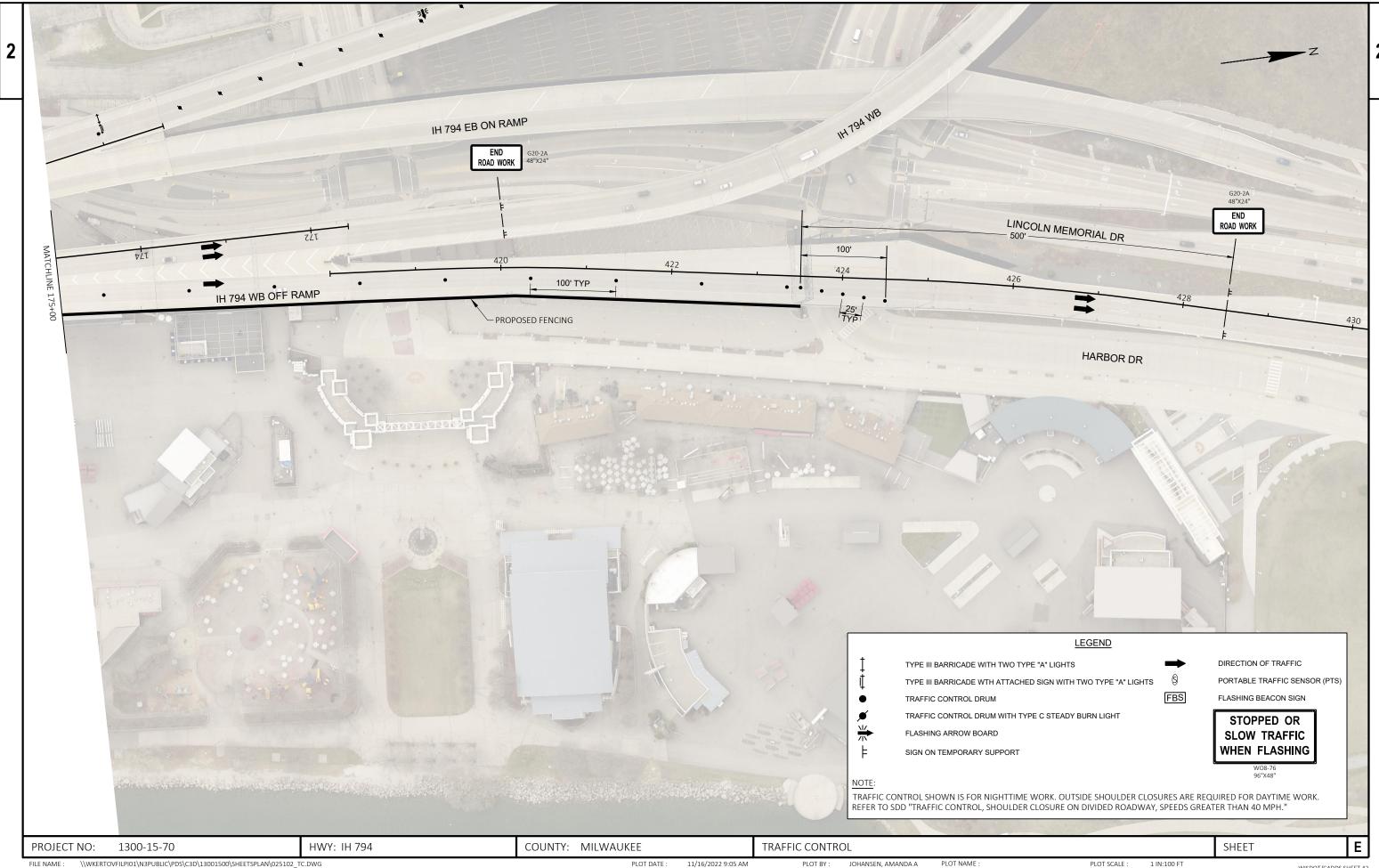
1E: \\WKERTOVFILPI01\N3PUBLIC\PD\$\C3D\13001500\SHEETSPLAN\025102_TC.DWG PLOT DATE: 11/16/2022 7:24 AM LAYOUT NAME - 03



FILE NAME: \\WKERTOVFILP101\\N3PUBLIC\PD\$\C3D\\13001500\\SHEETSPLAN\\025102_TC.DWG PLOT DATE: 11/16/2022 7:32 AM PLOT BY: JOHANSEN, AMANDA A PLOT NAME: PLOT SCALE: 1 IN:100 FT WISDOT/CADDS SHEET 42

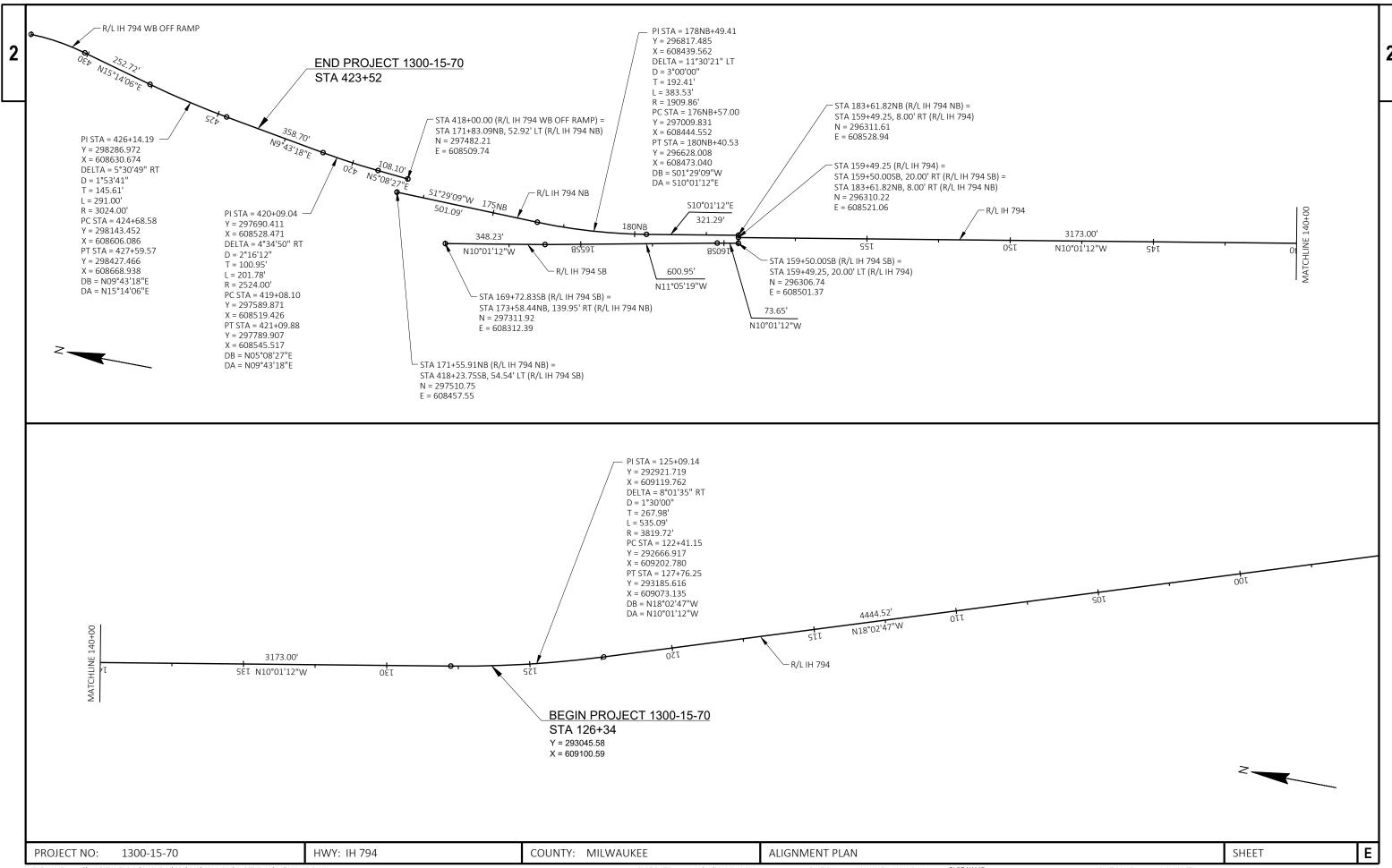


FILE NAME: \\WKERTOVFILIPIO1\\N3PUBLIC\PD\$\C3D\\13001500\\$HEETSPLAN\\025102_TC.DWG PLOT DATE: 11/16/2022 9:43 AM PLOT BY: JOHANSEN, AMANDA A PLOT NAME: PLOT SCALE: 1 IN:100 FT WISDOT/CADDS SHEET 42 AND AME - 05



\\WKERTOVFILPI01\N3PUBLIC\PDS\C3D\13001500\SHEETSPLAN\025102_TC.DWG LAYOUT NAME - 06

FILE NAME: \\WKERTOVFILIPIO1\\N3PUBLIC\PD\$\C3D\\13001500\\$HEETSPLAN\\025102_TC.DWG PLOT DATE: 11/16/2022 11:44 AM PLOT BY: JOHANSEN, AMANDA A PLOT NAME: PLOT SCALE: 1 IN:100 FT WISDOT/CADDS SHEET 42 AMOUNT NAME - 07



					1300-15-70
Line	Item	Item Description	Unit	Total	Qty
0002	213.0100	Finishing Roadway (project) 01. 1300-15-70	EACH	1.000	1.000
0004	509.1500	Concrete Surface Repair	SF	40.000	40.000
0006	616.0206	Fence Chain Link 6-FT	LF	9,094.000	9,094.000
8000	616.0329	Gates Chain Link (width) 01. 4-FT	EACH	38.000	38.000
0010	619.1000	Mobilization	EACH	1.000	1.000
0012	628.7010	Inlet Protection Type B	EACH	36.000	36.000
0014	638.2102	Moving Signs Type II	EACH	5.000	5.000
0016	638.2602	Removing Signs Type II	EACH	2.000	2.000
0018	638.3000	Removing Small Sign Supports	EACH	2.000	2.000
0020	643.0300	Traffic Control Drums	DAY	19,700.000	19,700.000
0022	643.0420	Traffic Control Barricades Type III	DAY	1,600.000	1,600.000
0024	643.0705	Traffic Control Warning Lights Type A	DAY	3,200.000	3,200.000
0026	643.0715	Traffic Control Warning Lights Type C	DAY	2,600.000	2,600.000
0028	643.0800	Traffic Control Arrow Boards	DAY	400.000	400.000
0030	643.0900	Traffic Control Signs	DAY	32,000.000	32,000.000
0032	643.1205.S	Basic Traffic Queue Warning System	DAY	80.000	80.000
0034	643.4100	Traffic Control Interim Lane Closure	EACH	181.000	181.000
0036	643.5000	Traffic Control	EACH	1.000	1.000
0038	646.1020	Marking Line Epoxy 4-Inch	LF	9,269.000	9,269.000
0040	646.7120	Marking Diagonal Epoxy 12-Inch	LF	100.000	100.000
0042	SPV.0060	Special 01. Unit 1A/1B Platform	EACH	4.000	4.000
0044	SPV.0060	Special 02. Lock Box	EACH	2.000	2.000

<u>CATEGORY</u> 1000	LOCATION IH 794 WB IH 794 EB TOTAL	OTECTION	628.7010 INLET PROTECTION TYPE B EACH 22 14 36	- =				CATEGORY 1000	LOCATION IH 794 WB IH 794 EB UNDISTRIBUTED TOTAL	PAVEMENT MAR	646.1020 MARKING LINE EPOXY 4-INCH LF 5,204 4,065 9,269	646.7120 MARKING DIAGONAL EPOXY 12-INCH LF 100
						TRAFFIC CONTRO	<u>DL</u>					
			DURATION	643.0300 TRAFFIC CONTROL DRUMS	643.0420 TRAFFIC CONTROL BARRICADE TYPE III	C	543.0705 TRAFFIC CONTROL VARNING HTS TYPE A	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C	643.0800 TRAFFIC CONTROL ARROW BOARDS	643.0900 TRAFFIC CONTROL SIGNS	643.4100 TRAFFIC CONTROL INTERIM LANE CLOSURE	
	CATEGORY 1000	LOCATION IH 794 WB	DAYS 80	*EACH DAYS 121 9,680	*EACH DAY 8 640	YS *EACH 0 16	DAYS 1,280	*EACH DAYS 13 1,040	*EACH DAYS	*EACH DAYS	EACH 80	
		IH 794 EB UNDISTRIBUTED	65	76 6,080 3,940	8 640		1,280 640	13 1,040 520	2 160	9 12,800 6,400	65 36	
		TOTAL		19,700	1,60		3,200	2,600	400	32,000	181	
	*FOR INFOF	RMATION ONLY										
					BASIC TRAFFIC QUEUE \	WARNING SYSTEM (I'	ГЕМ 643.1205.S <u>)</u>					
						FLASHING BEACON	PORTABLE TRAFFIC SENSORS	BASIC QUEUE WARNING SYSTEM				
				CATEGORY 1000	LOCATION IH 794 WB	SIGNS (FBS)	(PTS)	DAY 80				
					IH 794 WB IS ARE PART OF THE QWS AND							

T/DE			4 A A		SIGNING
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1300-15-70

			638.2102	638.2602	620, 2000	
					638.3000	
			MOVING	REMOVING	REM	
	SIGN		SIGNS	SIGNS	SMALL	
SIGN	CODE	SIGN	TYPE	TYPE II	SIGN	
NO.	& SIZE	MESSAGE	Ш		SUP	
			[EA]	(EA)	[EA]	REMARKS / NEW SIGN LOCATION
1	NONE	LAKESHORE STATE PARK	1			LOCATED ON S-40-330 ON NORTHBOUND IH 794 NEAR STATION 130. MOUNT SIGN UP HIGHER ON SIGN STRUCTURE UPRIGHT ABOVE THE NEW FENCE TO AVOID BLOCKING SIGN
		EXIT 1F				MOUNTING BRACKET INCIDENTAL PER A5-10 SIGN PLATE. NO SIGNING PLAN
2	W13-2	EXIT 35 MPH	1			LOCATED ON S-40-850 ON NORTHBOUND IH 794 NEAR STATION 420 AT LINCOLN MEMORIAL DRIVE EXIT RAMP ON UPRIGHT OF SIGN STRUCTURE. MOVE SIGN UP HIGHER ON
						SIGN STRUCTURE SO NOT BLOCKED BY FENCE
						MOUNTING BRACKET INCIDENTAL PER A5-10 SIGN PLATE. NO SIGNING PLAN
3	W3-3	SIGNAL AHEAD	1		1	MOVE SIGN TO UPRIGHT OF S-40-853 ALONG RAMP AROUND STATION 423. PRESENTLY LOCATED ON STEEL POST MOUNTED TO TOP OF WALL. NO SIGNING PLAN. MOUNTING BRACKET INCIDENTAL PER STATE PLATE A5-10
		UNDISTRIBUTED	2	2	1	
			5	2	2	

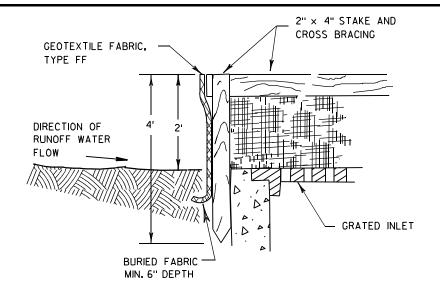
SHEET: 1 OF 1

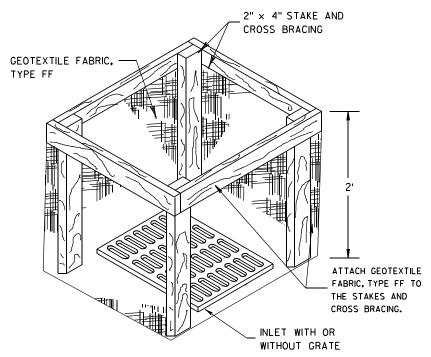
COUNTY: MILWAUKEE SHEET: PROJECT NO: 1300-15-70 HWY: IH 794 MISCELLANEOUS QUANTITIES – PERMANENT SIGNING PLOT NAME: 030501_MQ.pdf

Standard Detail Drawing List

08E10-02	INLET PROTECTION TYPE A, B, C AND D
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
15C08-22A	LONGITUDINAL MARKING (MAINLINE)
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D12-10A	TRAFFIC CONTROL, LANE CLOSURE
15D12-10D	TRAFFIC CONTROL, LANE CLOSURE, BASIC TRAFFIC QUEUE WARNING SYSTEM
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

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INLET PROTECTION, TYPE A

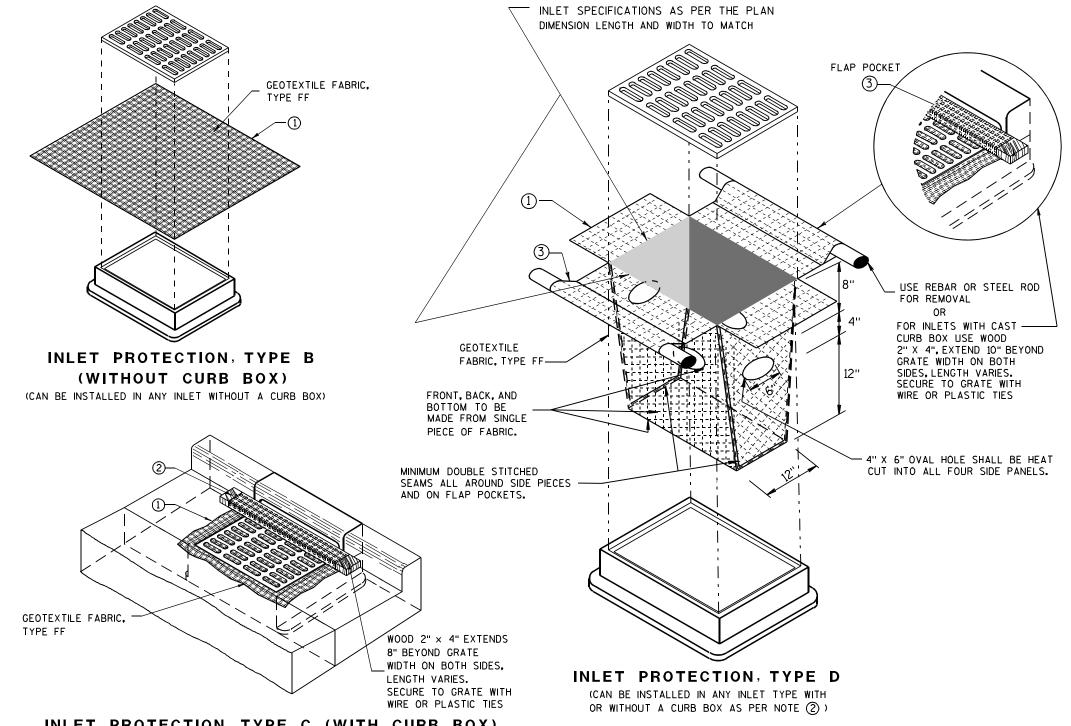
GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- 1) FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- (2) FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- (3) FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE, THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION TYPE A, B, C, AND D

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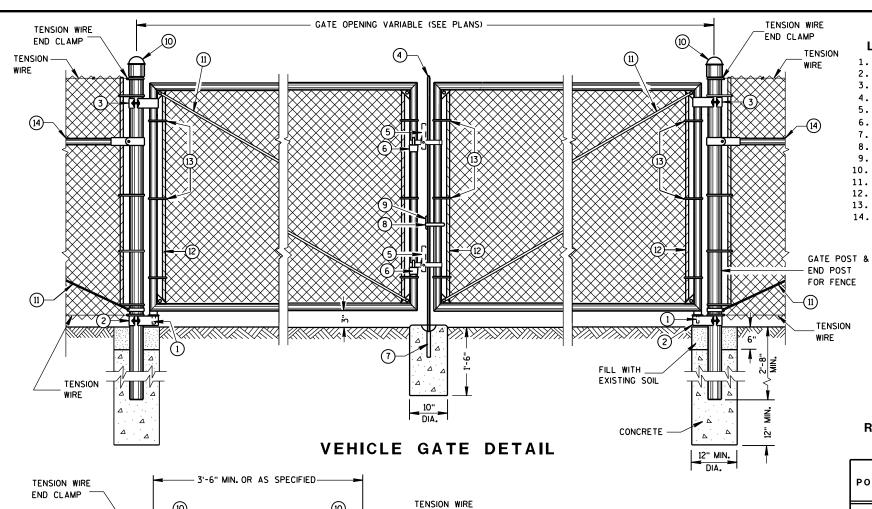
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

10/16/02



END CLAMP

EXISTING SOIL

PEDESTRIAN GATE DETAIL

CONCRETE

12" MIN.

CONCRETE

12" MIN.

TENSION

GATE POST &

END POST

FOR FENCE

TENSION -

GATE POST &

TENSION

END POST

FOR FENCE

6

D

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 \Box

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL	LESS THAN OR EQUAL TO 6 FT.	SP3
POSTS **	GREATER THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EOUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
LINE POSTS	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

BRACE RAIL TYPES

USE	TYPE
BRACE RAIL	SP1 OR FS1

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

- LEGEND 1. STRAIGHT PLUG
- 2. BOTTOM HINGE
- TOP HINGE
- 4. PLUNGER ROD
- 5. FULCRUM LATCH
- 6. FORK CATCH *
- 7. PLUNGER ROD CATCH
- 8. LOCK KEEPER GUIDE
- 9. LOCK KEEPER
- 10. DOME TOPS
- 11. TRUSS RODS 12. TENSION BAR
- 13. TENSION BANDS 14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

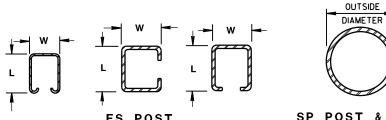
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.



SP POST & RAIL

CROSS SECTIONS OF POSTS AND RAILS

ROLLED-FORMED STEEL FENCE POST (2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) INCH	WIDTH (W)	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

ROUND STEEL FENCE POST (1.8 OZ./SQ. FT. COATING)

POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

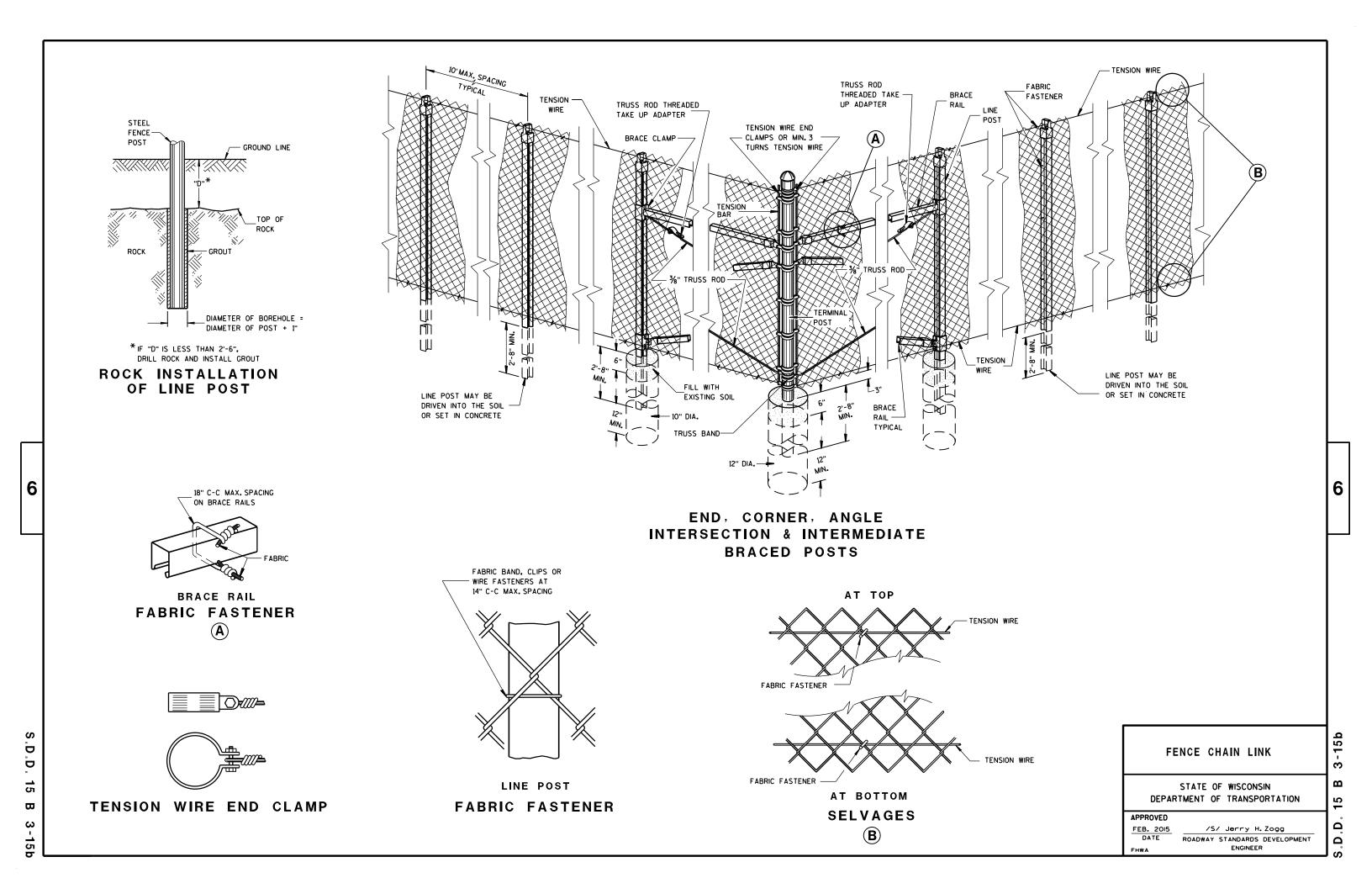
REQUIRED POST SIZE FOR GATES

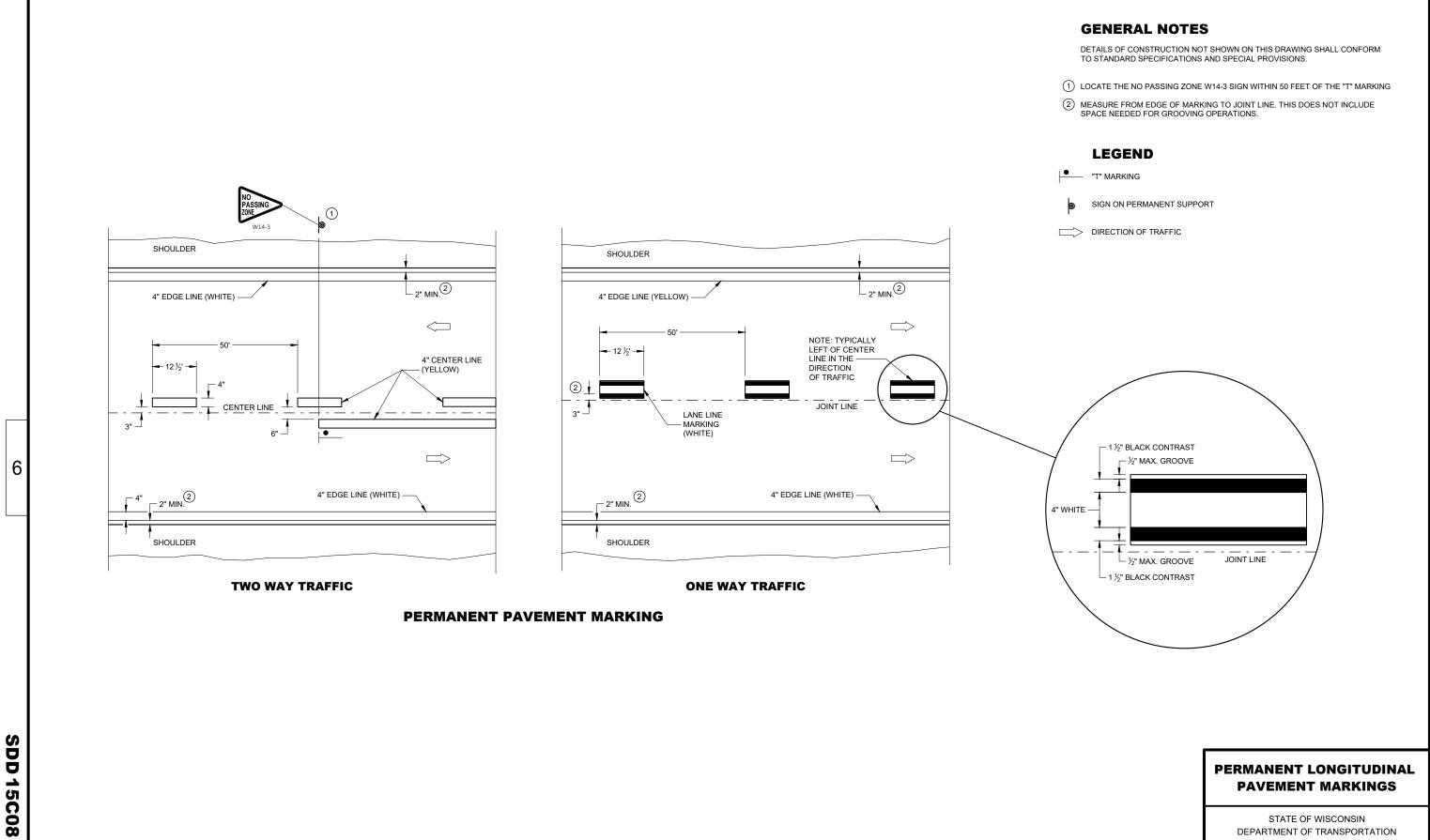
USE	LEAF WIDTHS FEET	POST TYPE
	LESS THAN OR EQUAL TO 6 FT.	SP4
GATES	LESS THAN OR EOUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EOUAL TO 23 FT.	SP7

FENCE CHAIN LINK

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION က

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Jeannie Silver
STATEWIDE SIGNING AND MARKING
ENGINEER

APPROVED

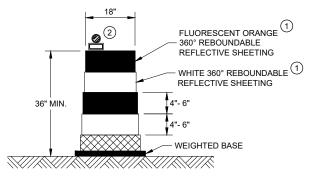
May 2022 DATE

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SDD 15C11

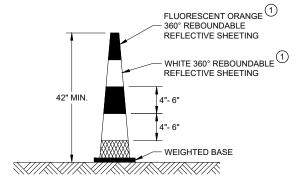
GENERAL NOTES

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



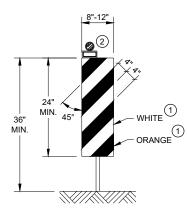
DRUM

BALLAST WIDTHS RANGE FROM 24"-36"



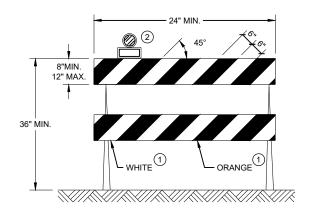
42" CONE

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



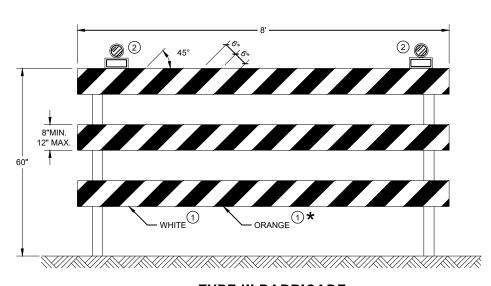
VERTICAL PANEL

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



TYPE II BARRICADE

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



TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 15C

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

GENERAL NOTES

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

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

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

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

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

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

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 AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

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

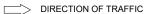
ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS

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.

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

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)
- -X-X-X- REMOVING PAVEMENT MARKINGS

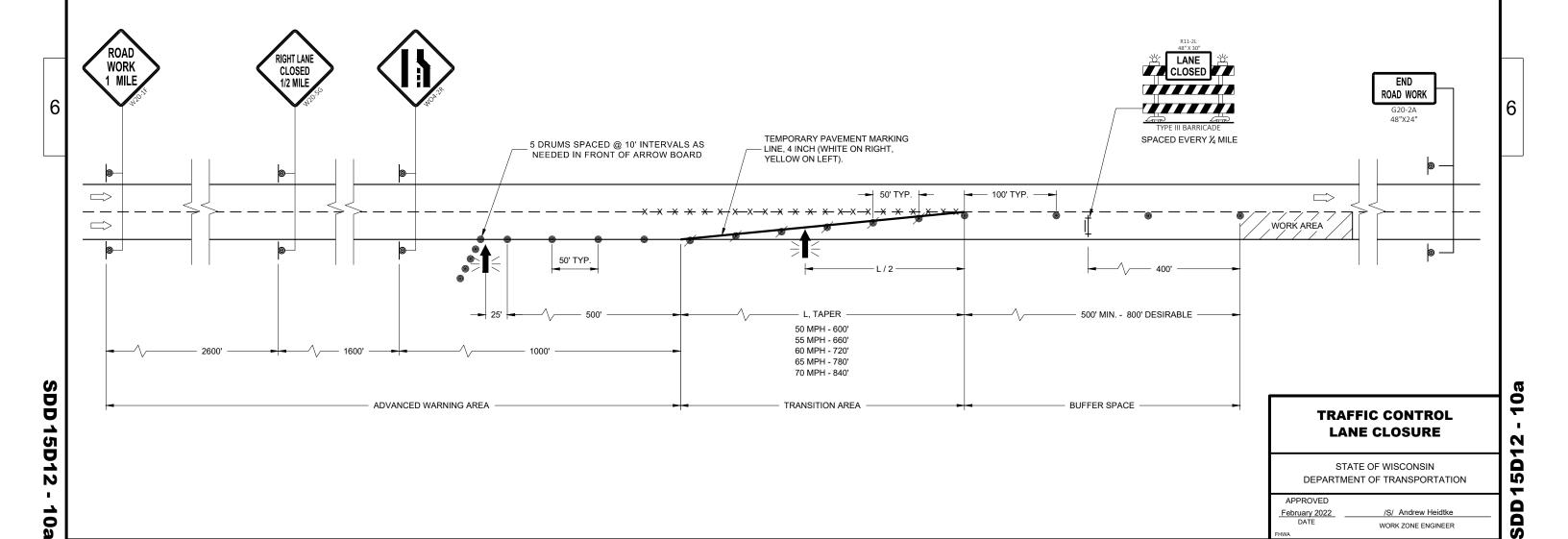


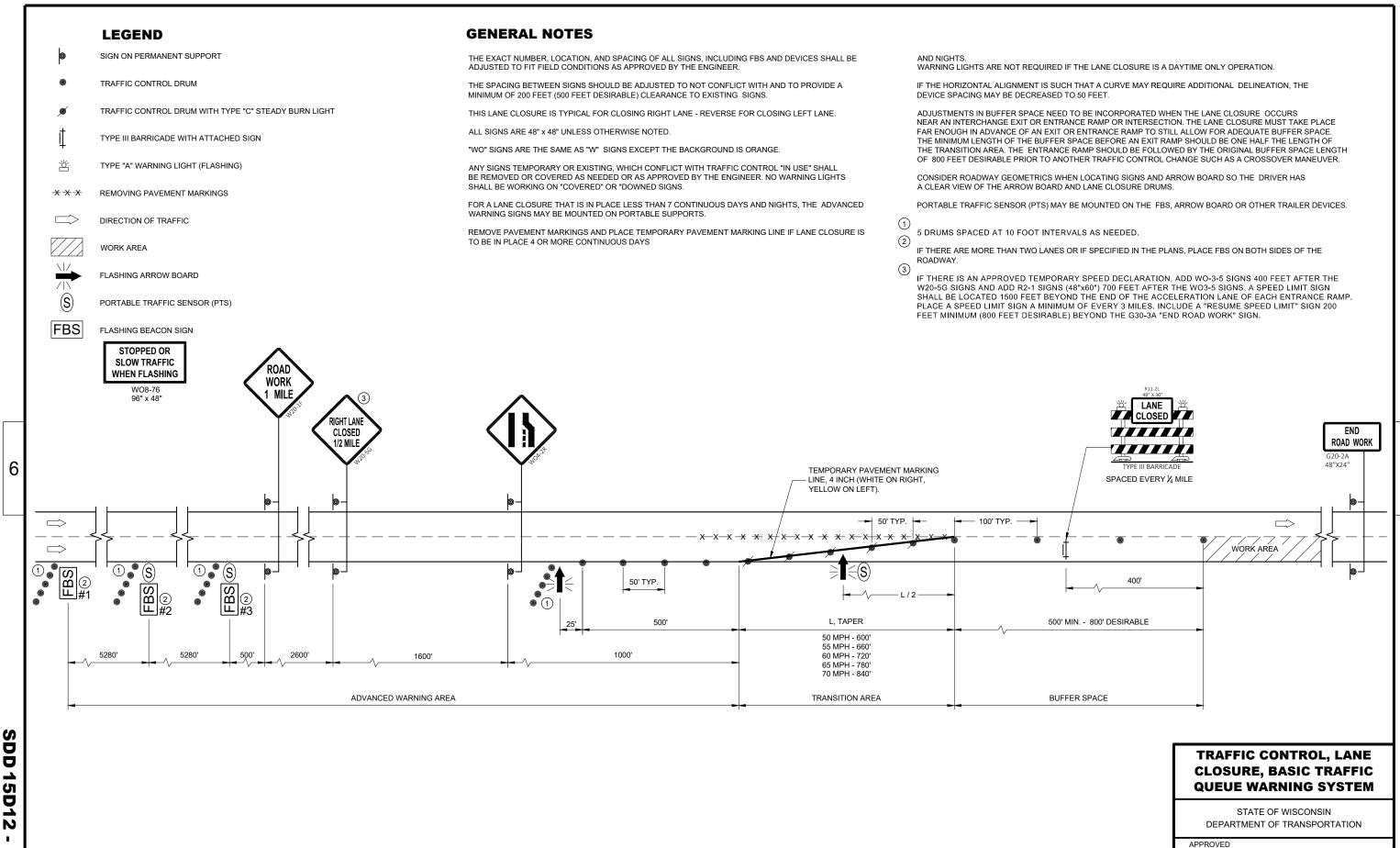


WORK AREA



FLASHING ARROW BOARD



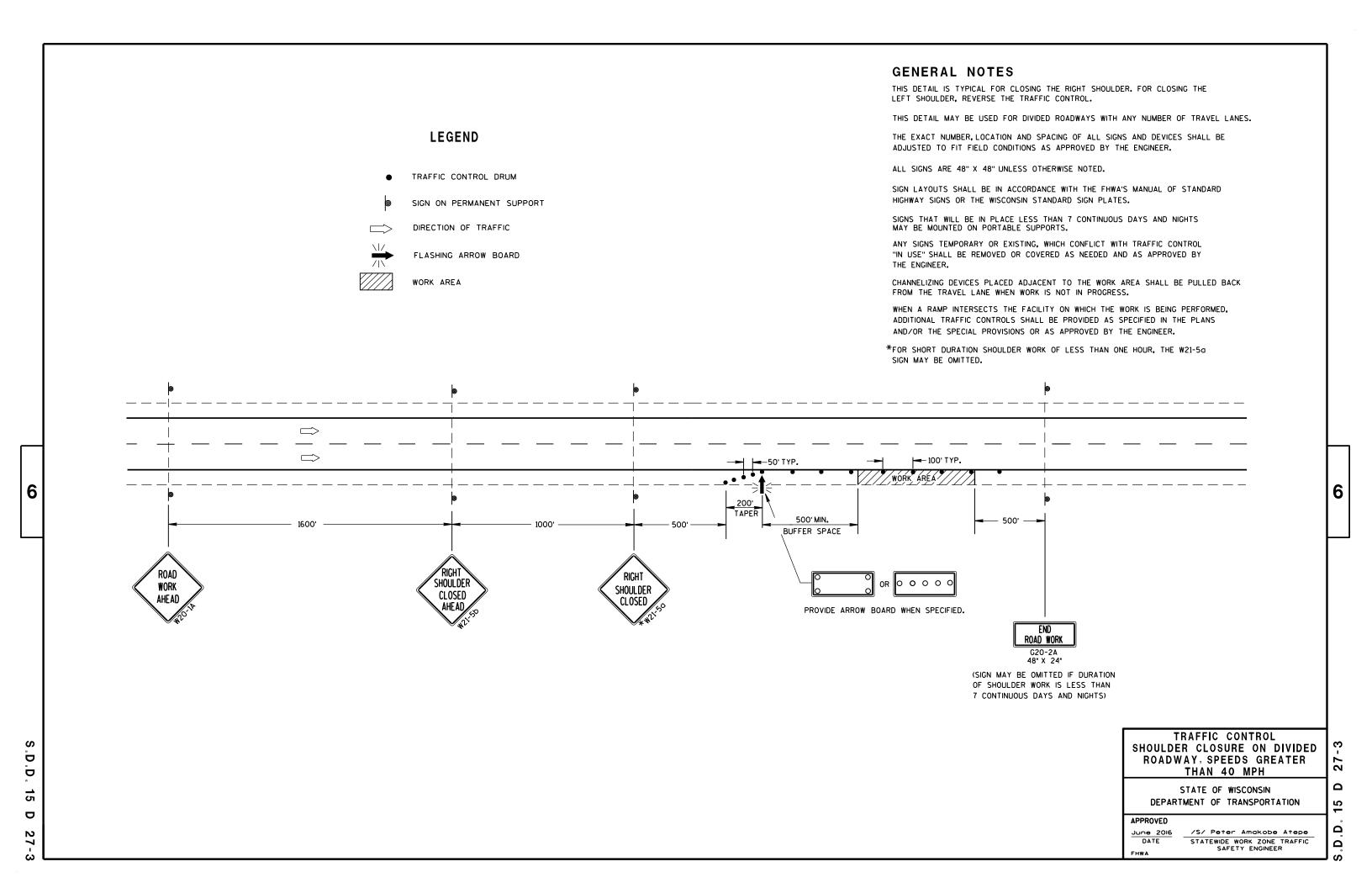


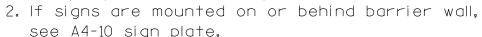
2 <u>1</u>

/S/ Erin Schwark

WORK ZONE ENGINEER

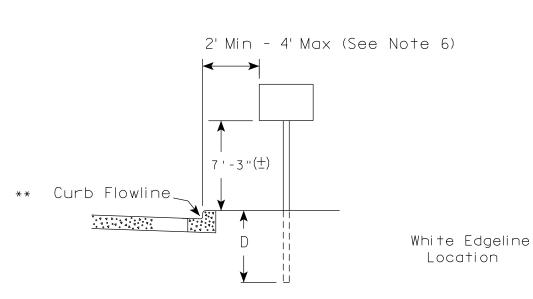
February 2022 DATE

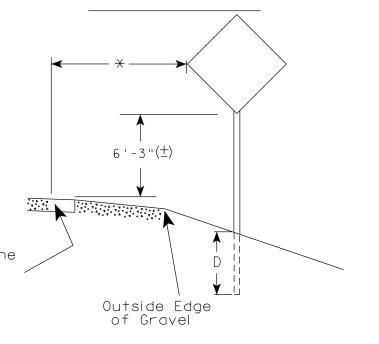




The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52). Mile Markers (D10 series). In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3'' ($\frac{+}{-}$).

- 3. For expressways and freeways, mounting height is $7'-3''(\pm)$ or 6'-3'' (\pm) depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is $5' - 3'' \stackrel{(\pm)}{-}$.
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (+) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.





2' Min - 4' Max (See Note 6) 6'-3"(±) ** Curb Flowline D

5'-3"(士) White Edgeline $D \parallel$ Location Outside Edge of Gravel

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated.

That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

HWY:

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign	
Installation	D
(Sq.Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED For State Traffic Engineer

DATE 5/13/2020

SHEET NO:

Ε

PROJECT NO: FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.dgn COUNTY:

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plo†scale.....\$\$ WISDOT/CADDS SHEET 42

PLOT DATE: 13-MAY 2020 1:04



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42

GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3'' (±) or 6'-3'' (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8). Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4''-3'' (±).
- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- ** * See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

D
(Min)
4'
5'

WISCONSIN DEPT OF TRANSPORTATION APPROVED For State Traffic Engineer DATE 8/21/17 PLATE NO. <u>A4-4.15</u>





	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRE)		
	L	E	
***	Greater than 48" Less than 60"	12"	
	60" to 108"	L/5	

HWY:

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 108" to 144"	12''

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT SCALE: 108.188297:1.000000

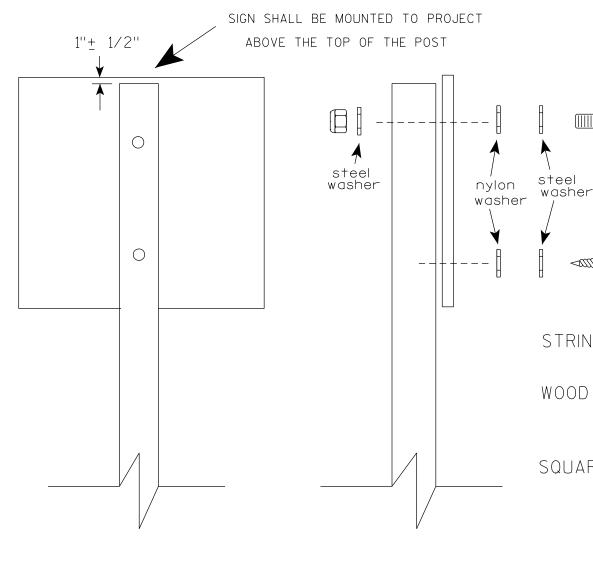
WISDOT/CADDS SHEET 42

OF TYPE II SIGNS ON MULTIPLE POSTS

TYPICAL INSTALLATION

SHEET NO:

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either:

- a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3
- b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS $(4'' \times 6'')$

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN) 3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

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

WASHERS (ALL POSTS) -

1-1/4" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL 1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON

Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq.ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

PLATE NO. <u>A4-8.9</u>

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN

PROJECT NO:



PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

For State Traffic Engineer



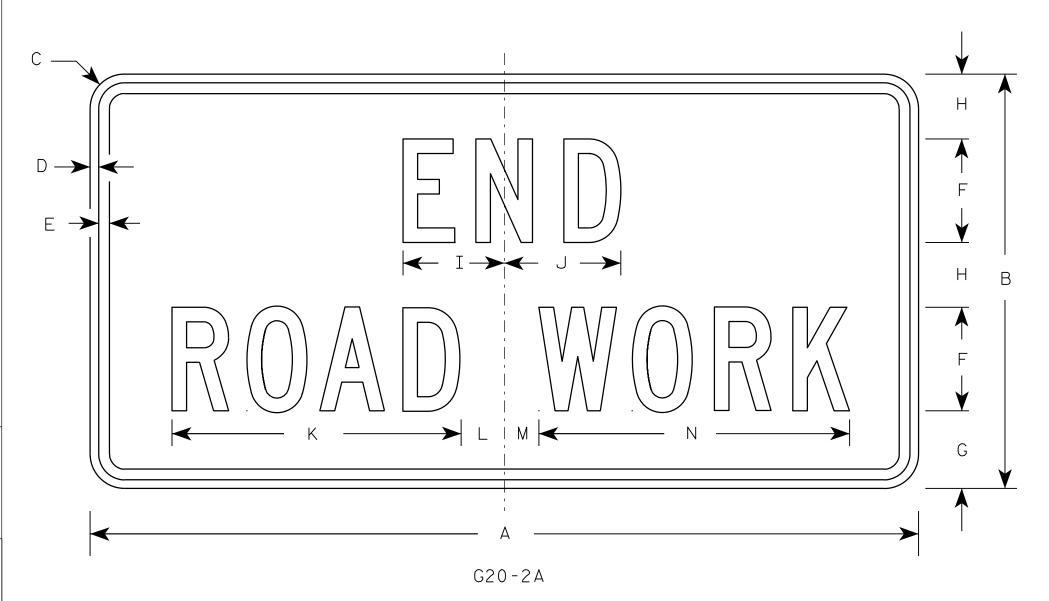
NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

2. Color:

Background - Orange Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Metric equivalent for this sign is:

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 ½	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED AND UN A O N

Matther R Lauch

For State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\G202A.DGN

HWY:

PROJECT NO:

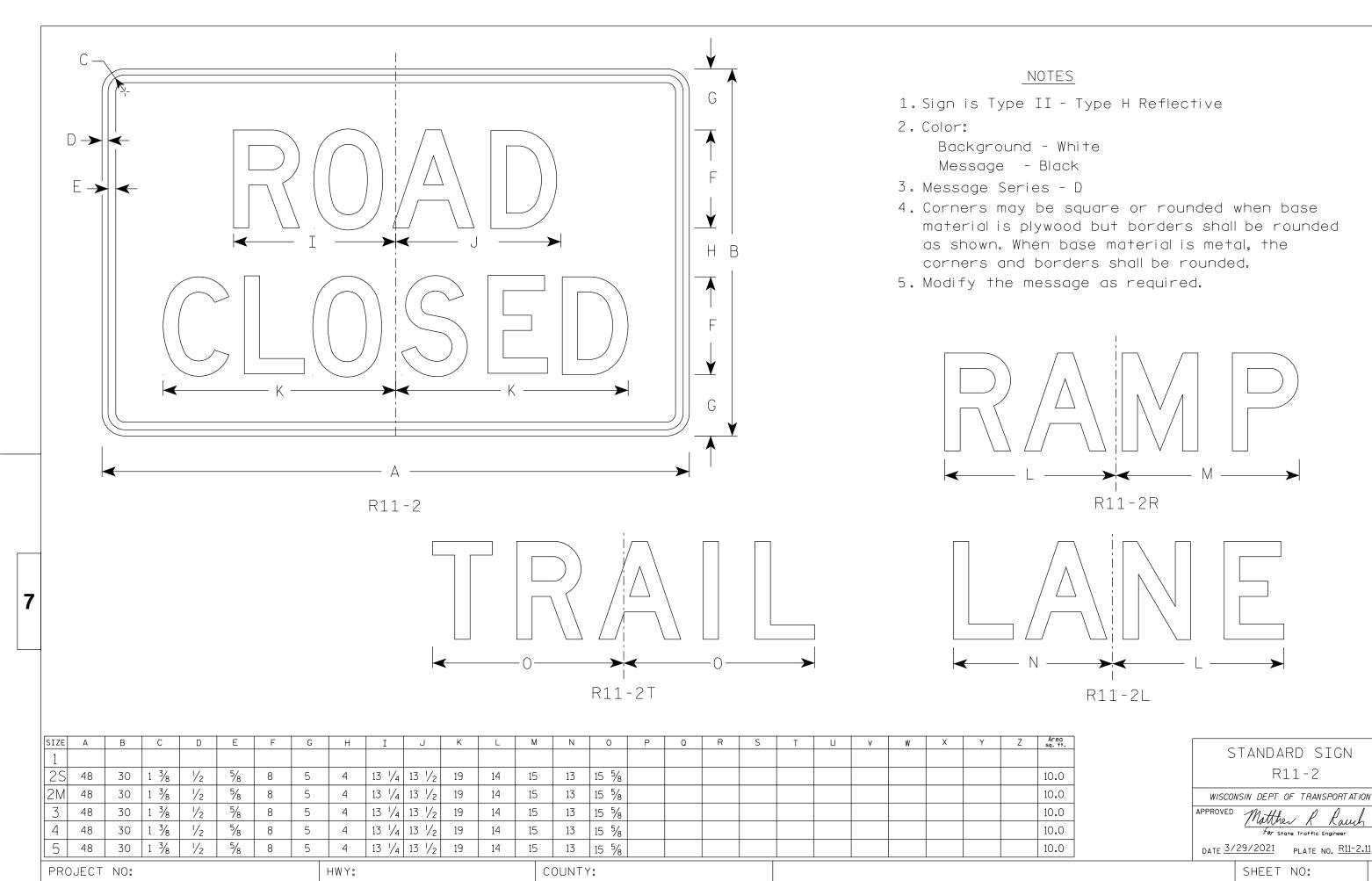
PLOT DATE: 30-SEP-2009 09:31

PLOT BY: ditjph

PLOT NAME :

PLOT SCALE: 5.561773:1.000000

WISDOT/CADDS SHEET 42



FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112.dgn

PLOT DATE: 29-MAR 2021 8:15

PLOT BY : dotc4c

PLOT NAME :

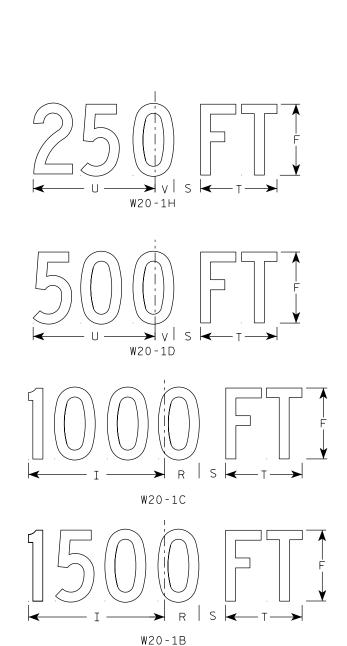
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

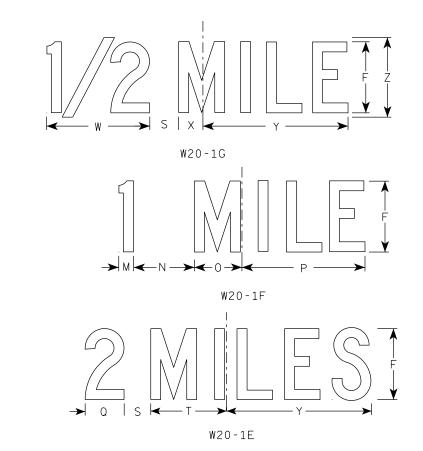
NOTES

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.





SIZE	. Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 1/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 %	9	1 3/8	8	1 3/4	10 3/4	6	9.0
25	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1	6 %	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1	6 %	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN W2O-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

For State Traffic Engineer
DATE 3/25/2020 PLATE NO. W20-1.11

SHEET NO:

PROJECT NO:

W20-1A

NOTES

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Message Series See Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. " LANE" is Series B. Allother copy is Series C.

500 FT

W20-5C

1500 FT



PLOT BY: mscj9h



									W20-	5A																	W 4	20-3F
SI	ZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	36	6	1 5/8	5/8	₹4	5	1 /8	2 1/2	13 1/8	10 ¾	9 1/2	14 1/4	13 %	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 %	10 1/8	2 1/2	1 3/4	8	9.0
2	?S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
2	M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
	3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
	4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 %	1 1/2	6	4 5/8	12	2 %	7 1/2	13 1/2	3 %	2 3/8	10 %	16.0
	5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0

COUNTY:

STANDARD SIGN W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rauch

For State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

SHEET NO:

PROJECT NO:

HWY:

W20-56A

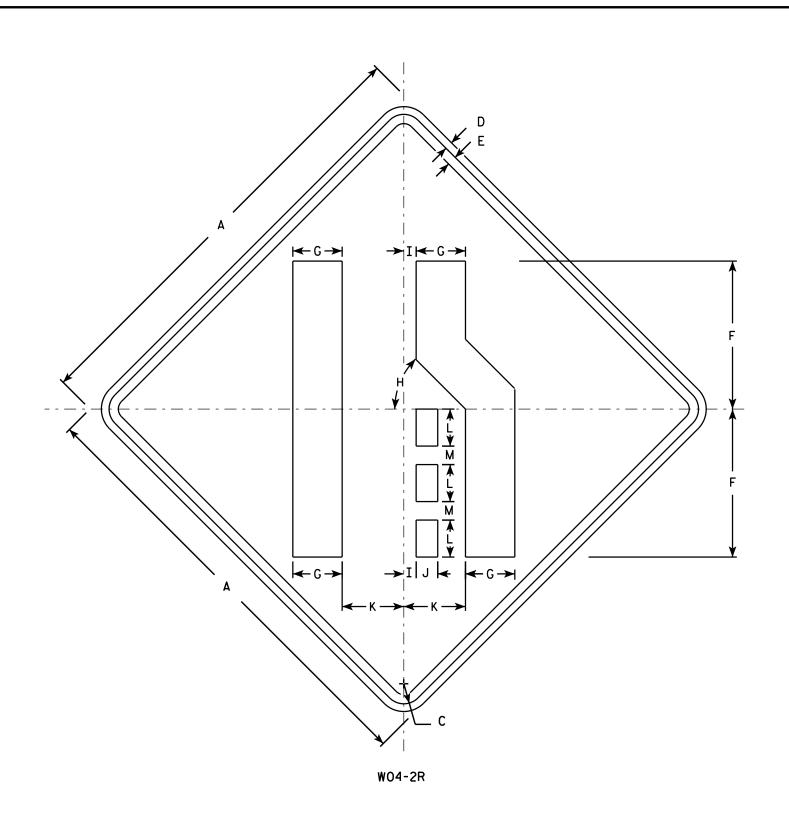
W20-55A

NOTES

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W04-2L is the same as W04-2R except the symbolis reversed along the vertical centerline.



SIZE 1 % 5/8 3/4 12 45° 1 3/4 5 1 1/2 4 36 3 9.0 2S 2 1/4 5 3/8 45° 1 ¼ 2 ¾ 6 ¾ 3/4 48 16.0 45° 1 ¼ 2 ¾ 6 ¾ 3/4 5 3/8 48 2 1/4 2 16.0 2 1/4 3 48 3/4 5 % 45° | 1 1/4 | 2 3/8 | 6 3/4 2 16.0 2 1/4 3/4 5 3/8 45° | 1 1/4 | 2 3/8 | 6 3/4 48 2 16.0 5 2 1/4 3/4 5 3/8 45° | 1 1/4 | 2 3/8 | 6 3/4 48 2 16.0

STANDARD SIGN W04 - 2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

ForState Traffic Engineer

DATE 11/20/13 PLATE NO. <u>WO4-2.1</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W042.DGN

PROJECT NO:

PLOT DATE: 20-NOV-2013 11:43

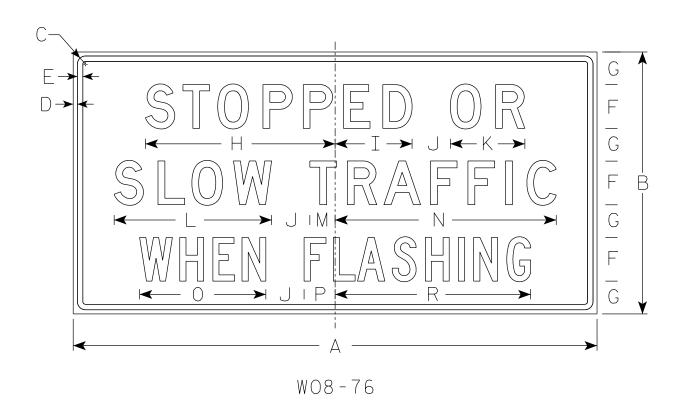
WISDOT/CADDS SHEET 42

NOTES

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background – Orange Message – Black

- 3. Message Series Lines 1 and 2 are series D Line 3 is series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.
1																											
2																											
3																											
4	96	48	2 1/4	3/4	1	8	6	34 ¾	14 1/8	7	13 5/8	28 1/8	4 5/8	40 1/2	23 1/8	5 3/4		35 7/8									32.0
5																											

COUNTY:

STANDARD SIGN W08-76

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Royal For State Traffic Engineer

DATE 4/8/2021 PLATE NO. WO8-76.2

SHEET NO:

FILE NAME: C:\CAEfiles\Projects\tr_stdplate\W0876.dgn

PROJECT NO:

HWY:

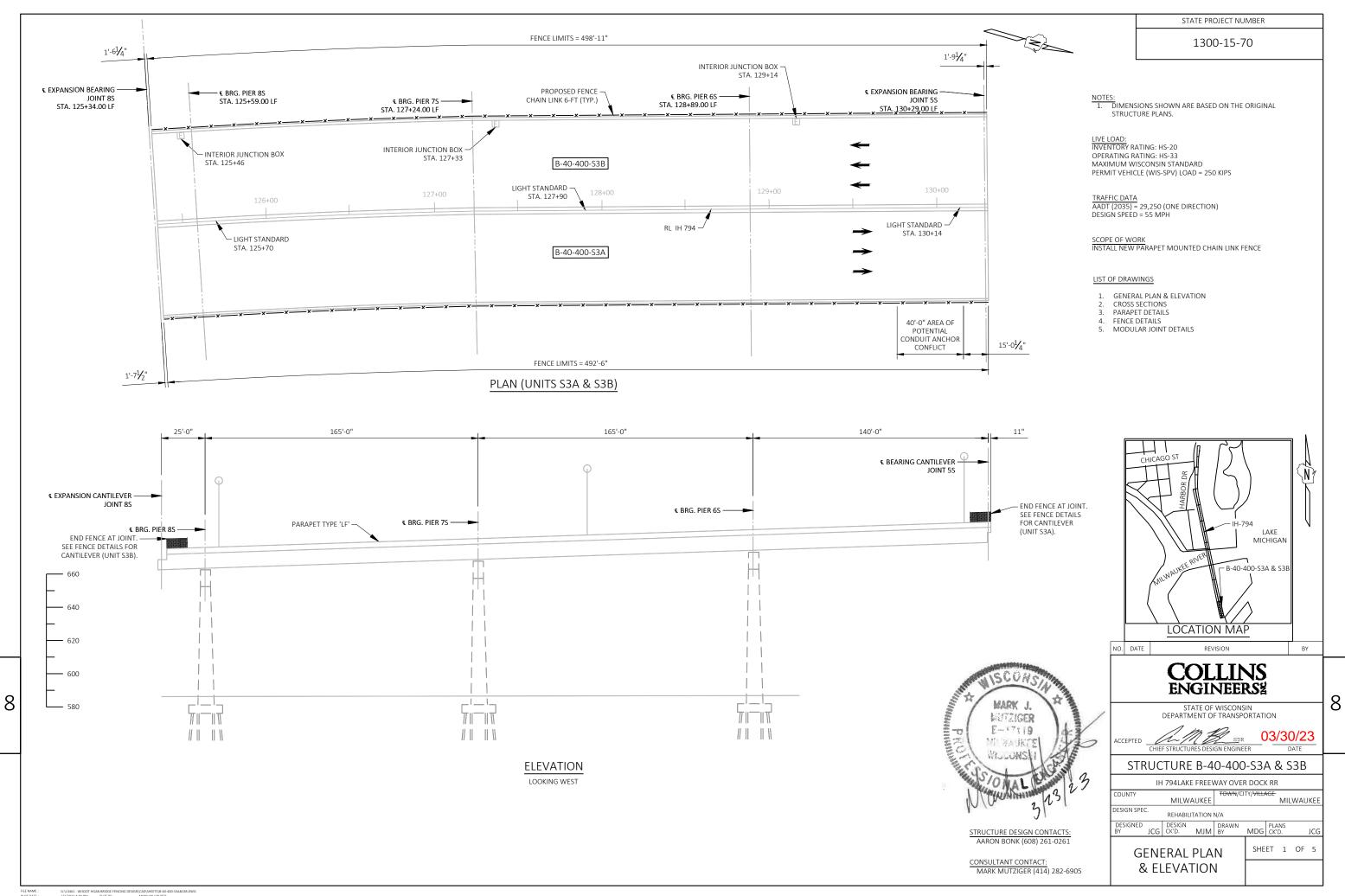
PLOT DATE: 8-APRIL 2021 2:17

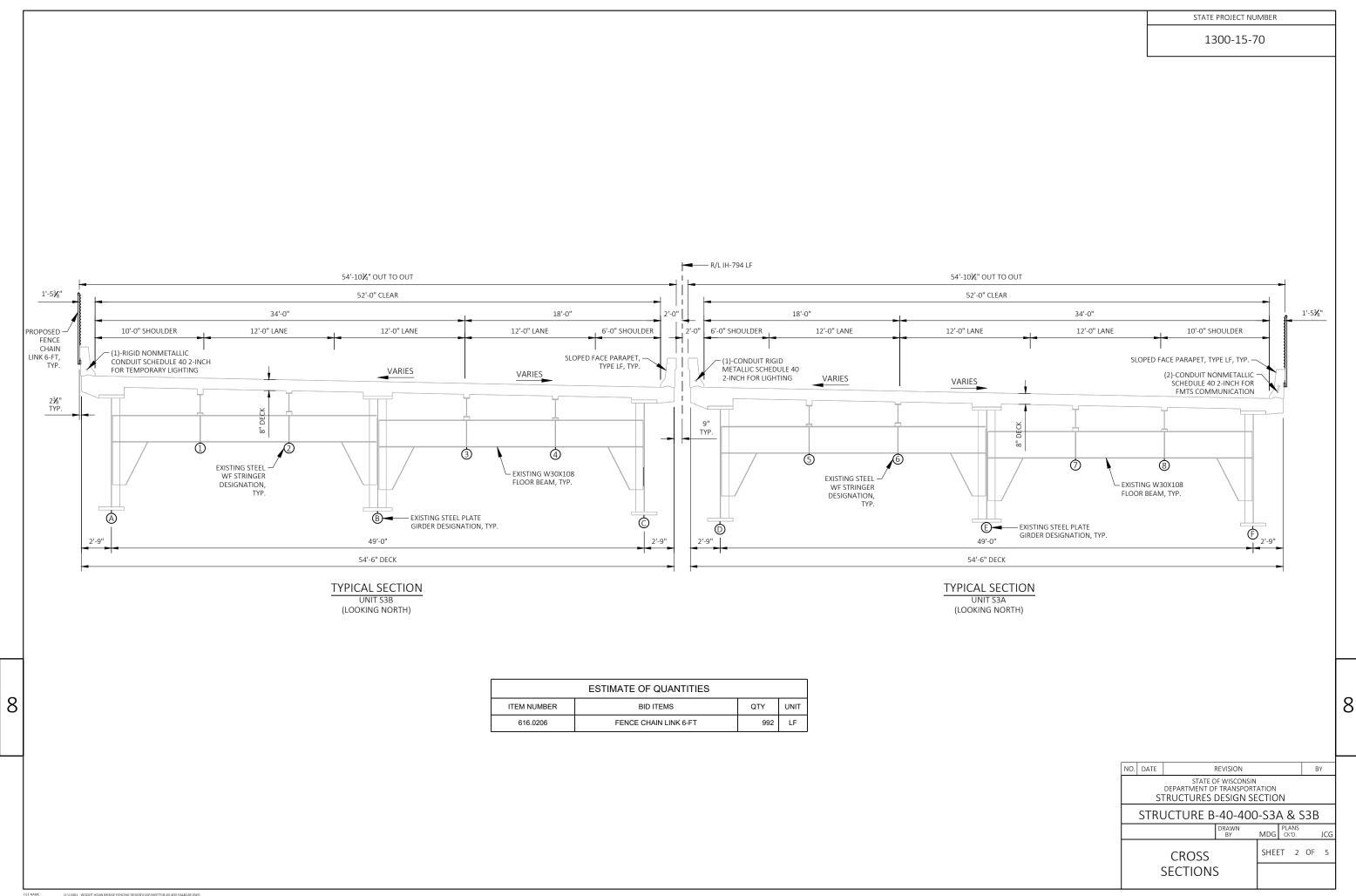
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PLOT NAME :

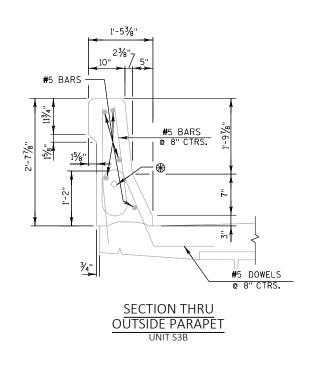
PLOT SCALE: \$\$.....plotscale.....\$\$ wisDot/CADDS SHEET 42

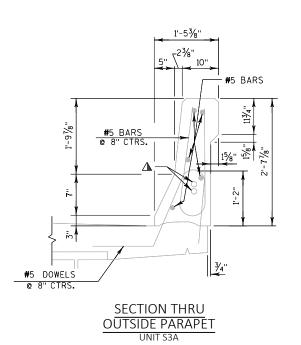
. GOTOGO FEOT NAME.





1300-15-70





<u>LEGEND</u>

(1)-"CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH" FOR TEMPORARY ROADWAY LIGHTING

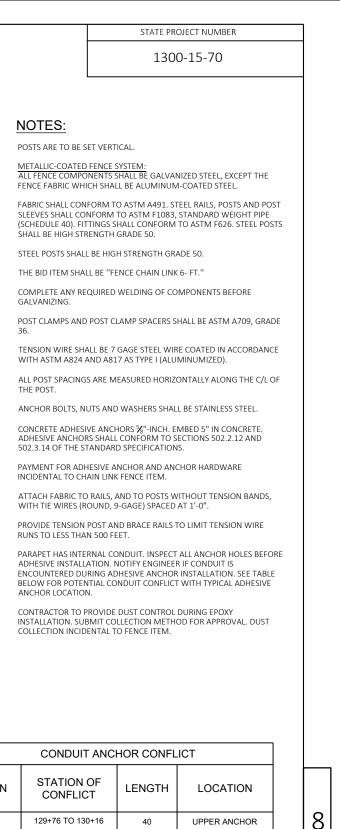
(2)-"CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH" FMTS COMMUNICATIONS

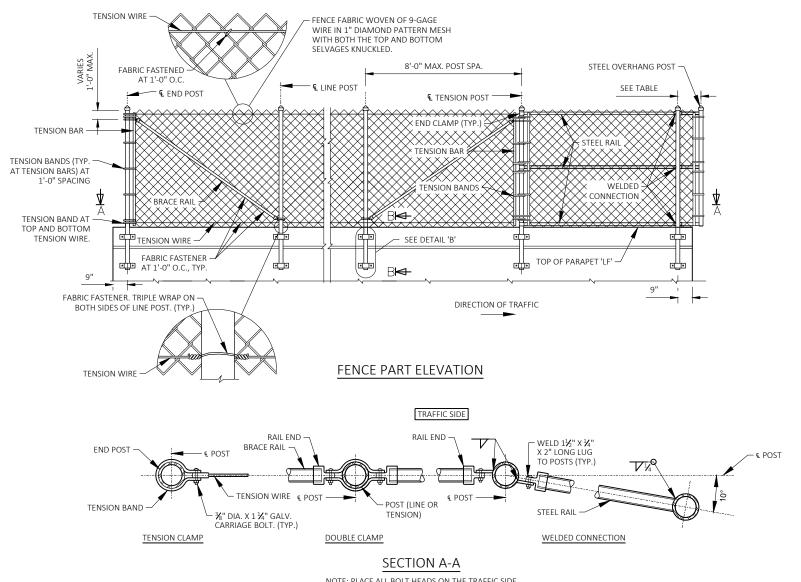
NO.	DATE		REVISION			В	Υ			
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION									
	STRUCTURE B-40-400-S3A & S3B									
			DRAWN BY	MDG	PLANS CK'D.		JCG			
	PARAPET				T 3	OF	5			
	DETAILS									

8

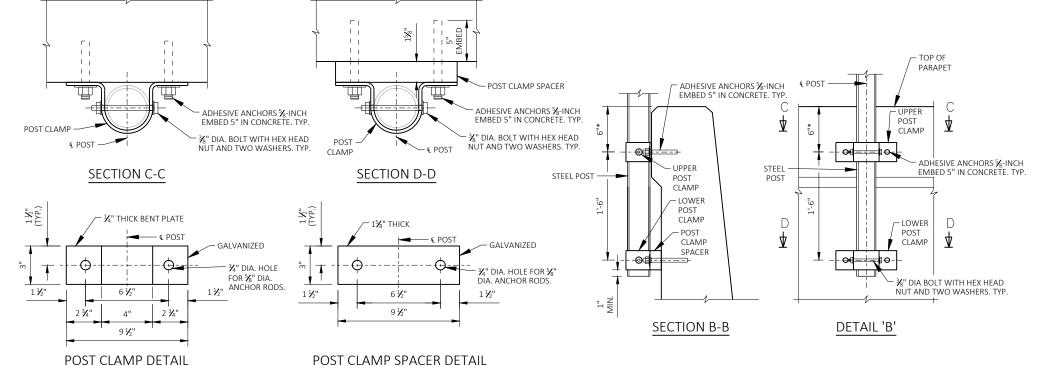
FILE NAME : G:\13461 - WISDOT HO

.3461 - WISDOT HOAN BRIDGE FENCING DESIGN\CAD\SHEETS\8-40-400-S3A&S3B.DV 2023 4:54 PM PLOT BY: MORGAN GRUBER





NOTE: PLACE ALL BOLT HEADS ON THE TRAFFIC SIDE



SPAN

* REVISE DIMENSION TO 4.5" AT LOCATIONS NOTED TO AVOID POTENTIAL CONFLICT WITH CONDUIT INTERNAL TO PARAPET.

NO.	DATE	DATE REVISION							
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION									
STRUCTURE B-40-400-S3A & S3B									
			DRAWN BY	MDG	PLANS CK'D.		JCG		
	FENCE				T 4	OF	5		
	DETAILS								

- PLACE ORNAMENTAL CAPS ON TOP OF END POSTS AND OVERHANG

POSTS WITH TAPPED SET SCREW OR

FENCE MEMBER

SIZE & WEIGHT

OUTSIDE DIAMETER

3.50

1.66

WEIGH1 (LB/FT

7.576

2.273

STEEL FENCE MEMBER

BRACE RAIL

POST (END, LINE, OR TENSION)

BOLT (TYP.)

FENCE FABRIC

SECTION THRU FENCE

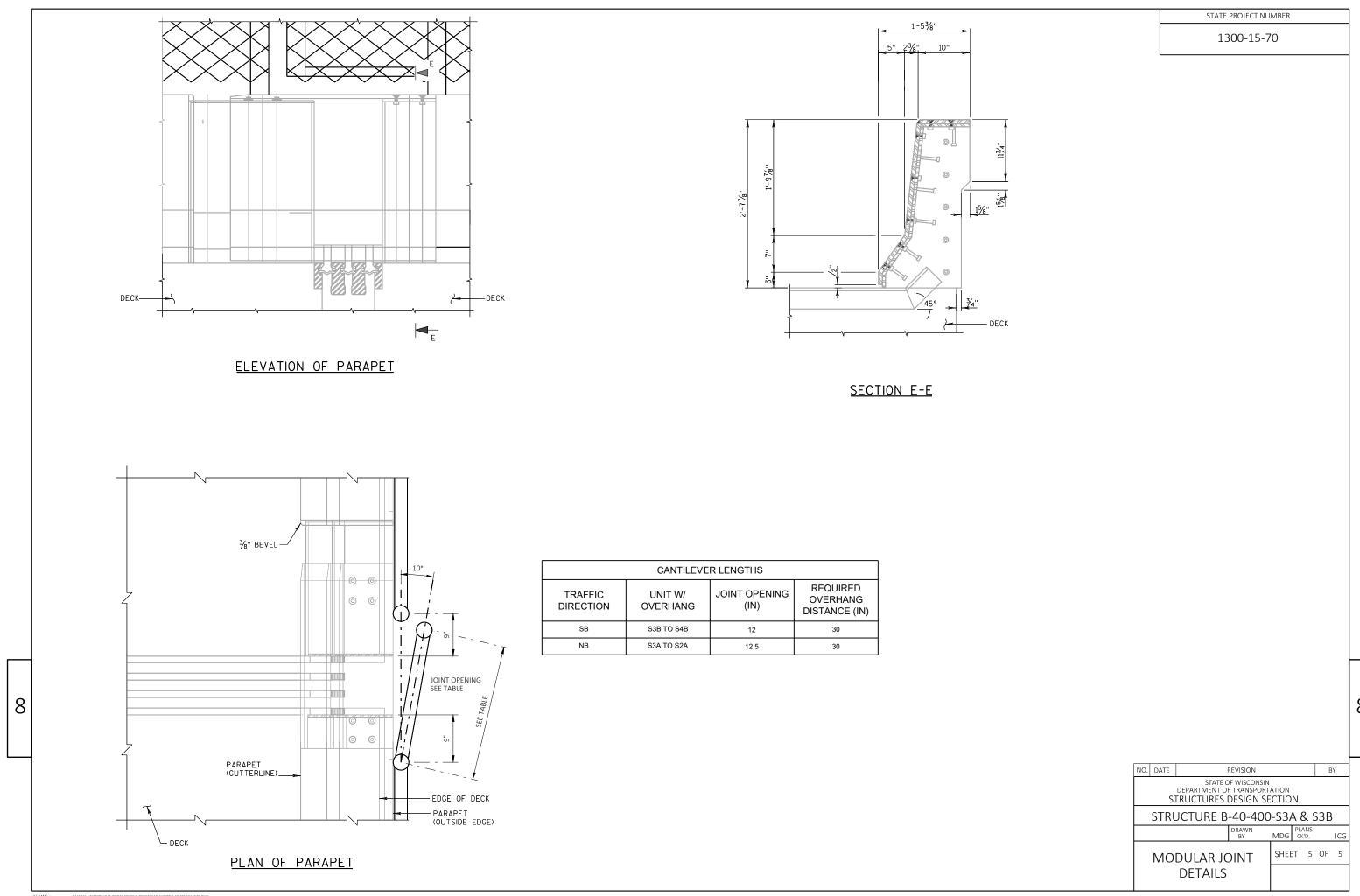
ON PARAPET 'LF

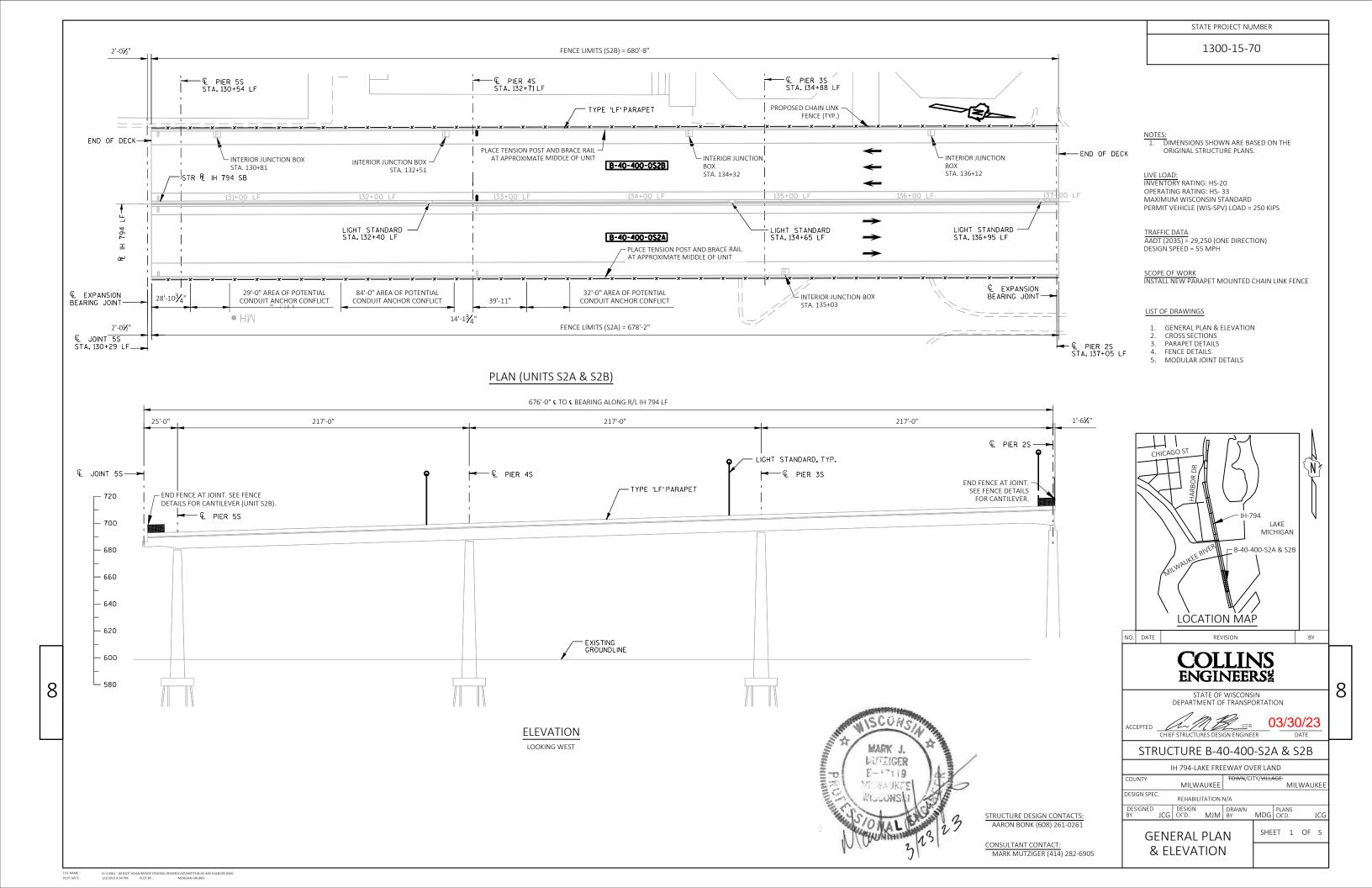
PROTECTIVE SCREENING SHALL BE STRAIGHT

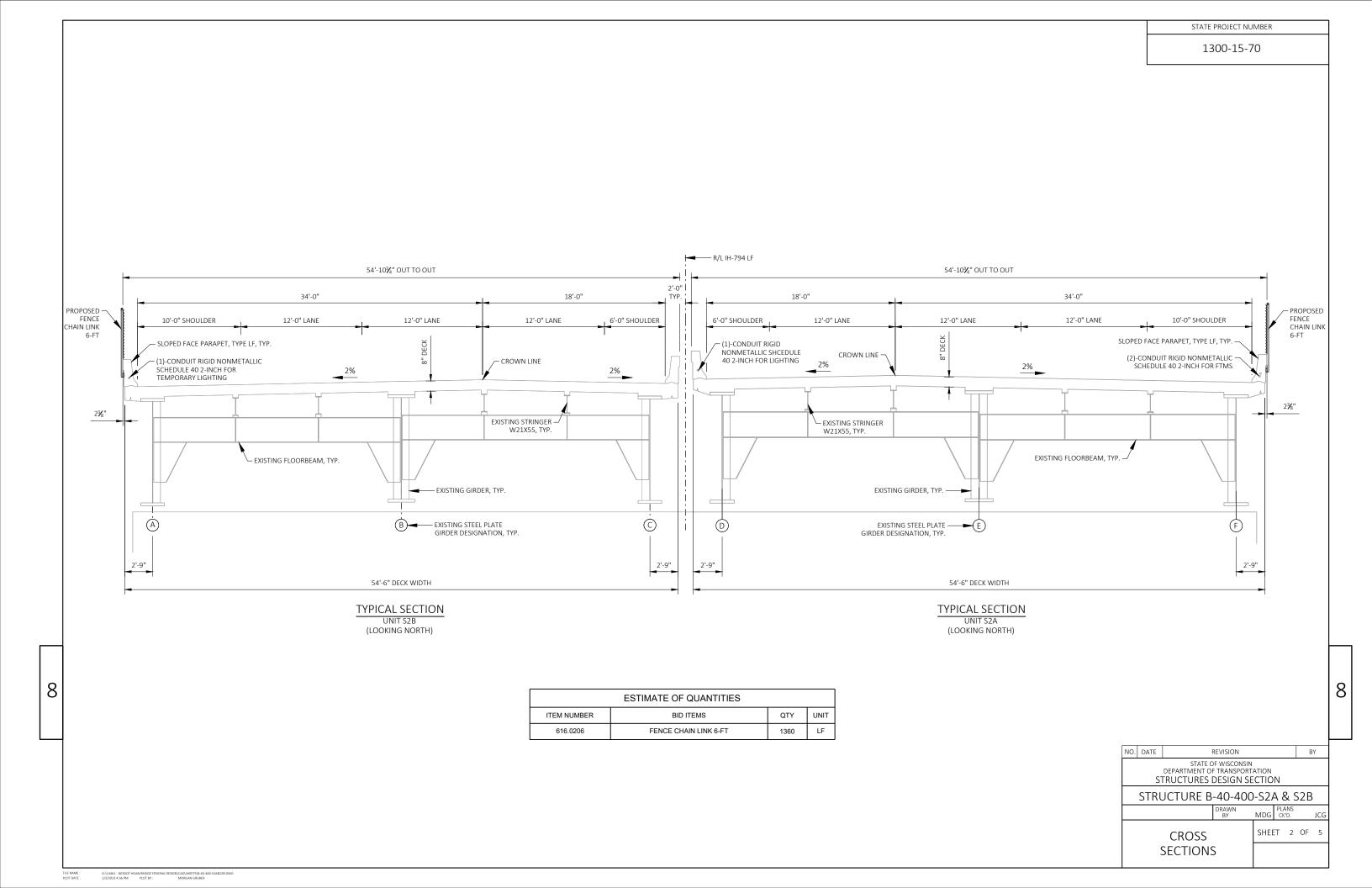
TENSION WIRE

STEEL POST -

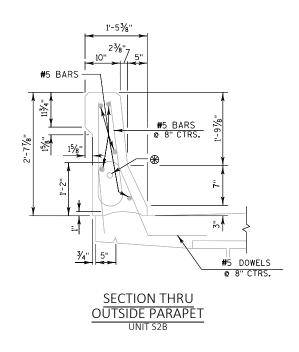
TENSION WIRE -

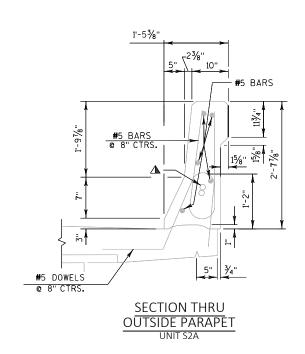






1300-15-70





<u>LEGEND</u>

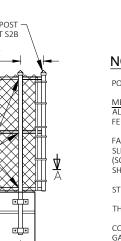
- (2) "CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH" FOR FTMS COMMUNICATIONS.

							—			
NO.	DATE		REVISION			В	Υ			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION										
	STRUCTURE B-40-400-S2A & S2B									
			DRAWN BY	MDG	PLANS CK'D.		JCG			
		SHEE	T 3	OF	5					
	DETAILS									

8

FILE NAT

.13461 - WISDOT HOAN BRIDGE FENCING DESIGN\CAD\SHEETS\B-40-400-SZA&SZB.DW /2023 4:39 PM PLOT BY : MORGAN GRUBER



POSTS ARE TO BE SET VERTICAL

METALLIC-COATED FENCE SYSTEM:

ALL FENCE COMPONENTS SHALL BE GALVANIZED STEEL, EXCEPT THE FENCE FABRIC WHICH SHALL BE ALUMINUM-COATED STEEL.

STEEL POSTS SHALL BE HIGH STRENGTH GRADE 50.

THE BID ITEM SHALL BE "FENCE CHAIN LINK 6- FT."

COMPLETE ANY REQUIRED WELDING OF COMPONENTS BEFORE

POST CLAMPS AND POST CLAMP SPACERS SHALL BE ASTM A709, GRADE

WITH ASTM A824 AND A817 AS TYPE I (ALUMINUMIZED).

ALL POST SPACINGS ARE MEASURED HORIZONTALLY ALONG THE C/L OF THE POST.

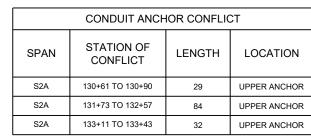
CONCRETE ADHESIVE ANCHORS $\frac{1}{8}$ "-INCH. EMBED 5" IN CONCRETE. ADHESIVE ANCHORS SHALL CONFORM TO SECTIONS 502.2.12 AND

PAYMENT FOR ADHESIVE ANCHOR AND ANCHOR HARDWARE

ATTACH FABRIC TO RAILS, AND TO POSTS WITHOUT TENSION BANDS,

PROVIDE TENSION POST AND BRACE RAILS TO LIMIT TENSION WIRE

PARAPET HAS INTERNAL CONDUIT. INSPECT ALL ANCHOR HOLES BEFORE ADHESIVE INSTALLATION. NOTIFY ENGINEER IF CONDUIT IS ENCOUNTERED DURING ADHESIVE ANCHOR INSTALLATION. SEE TABLE BELOW FOR POTENTIAL CONDUIT CONFLICT WITH TYPICAL ADHESIVE



* REVISE DIMENSION TO 4.5" AT LOCATIONS NOTED TO AVOID

NOTES:

FABRIC SHALL CONFORM TO ASTM A491. STEEL RAILS, POSTS AND POST SLEEVES SHALL CONFORM TO ASTM F1083, STANDARD WEIGHT PIPE (SCHEDULE 40). FITTINGS SHALL CONFORM TO ASTM F626. STEEL POSTS SHALL BE HIGH STRENGTH GRADE 50.

GALVANIZING

TENSION WIRE SHALL BE 7 GAGE STEEL WIRE COATED IN ACCORDANCE

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE STAINLESS STEEL.

502.3.14 OF THE STANDARD SPECIFICATIONS.

INCIDENTAL TO CHAIN LINK FENCE ITEM.

WITH TIE WIRES (ROUND, 9-GAGE) SPACED AT 1'-0".

RUNS TO LESS THAN 500 FEET.

ANCHOR LOCATION.

CONTRACTOR TO PROVIDE DUST CONTROL DURING EPOXY INSTALLATION. SUBMIT COLLECTION METHOD FOR APPROVAL. DUST COLLECTION INCIDENTAL TO FENCE ITEM.

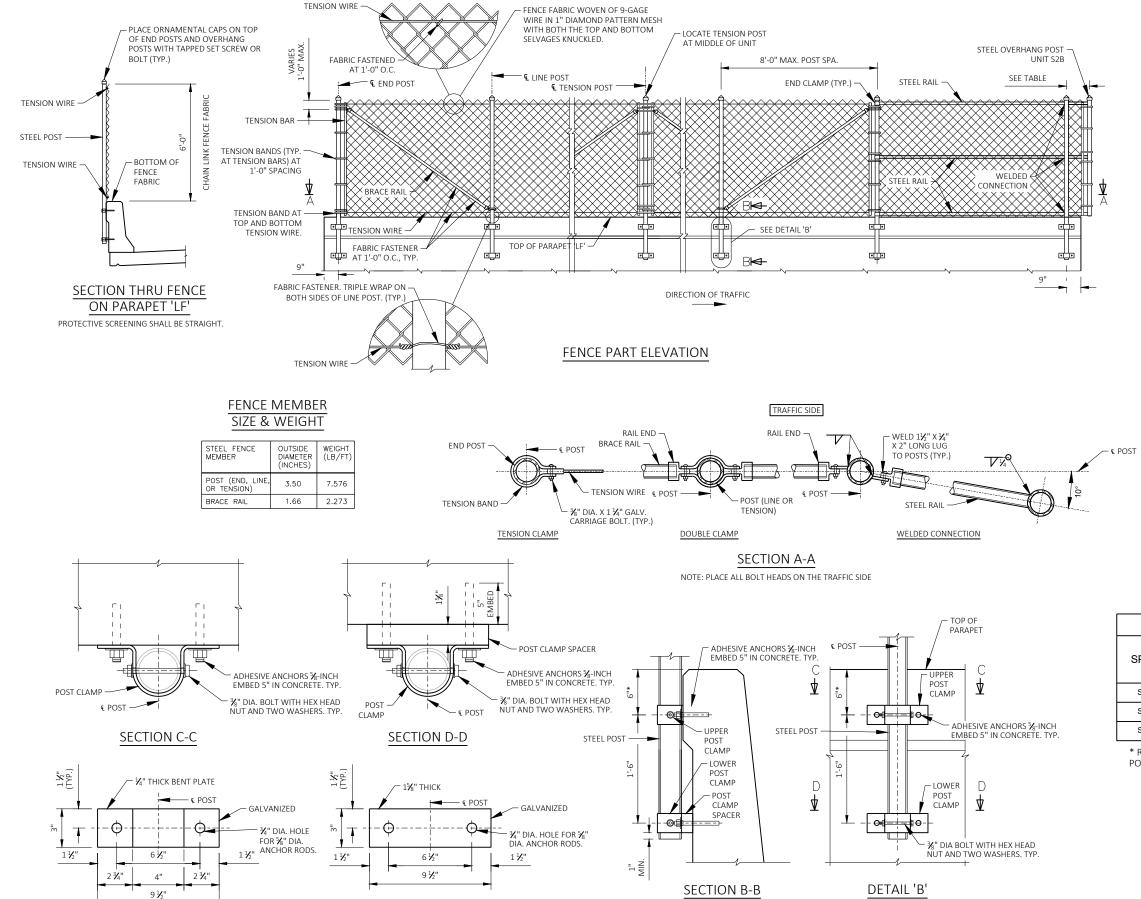
POTENTIAL CONFLICT WITH CONDUIT INTERNAL TO PARAPET.

NO. DATE STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION

STRUCTURE B-40-400-S2A & S2B

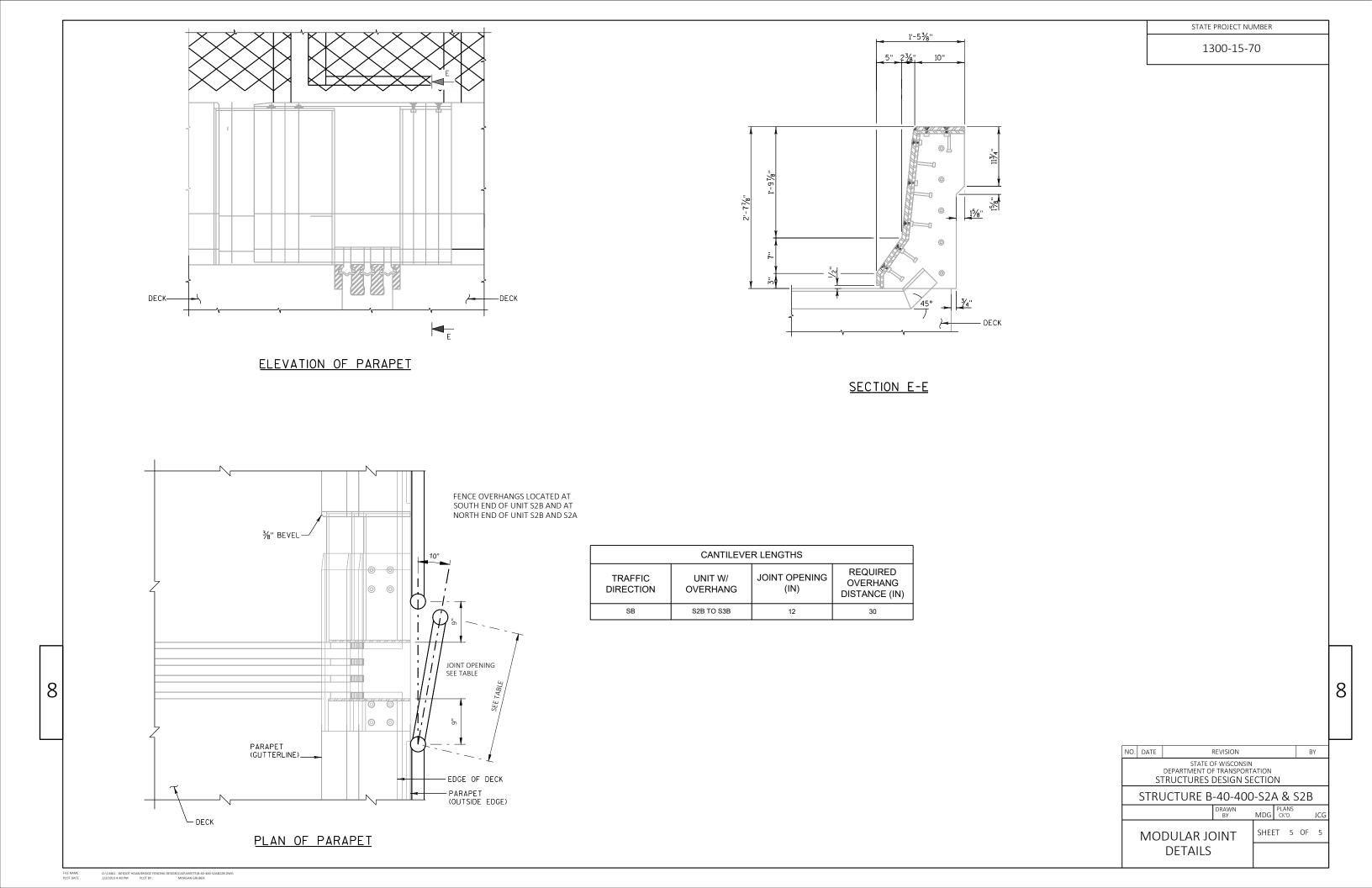
FENCE DETAILS

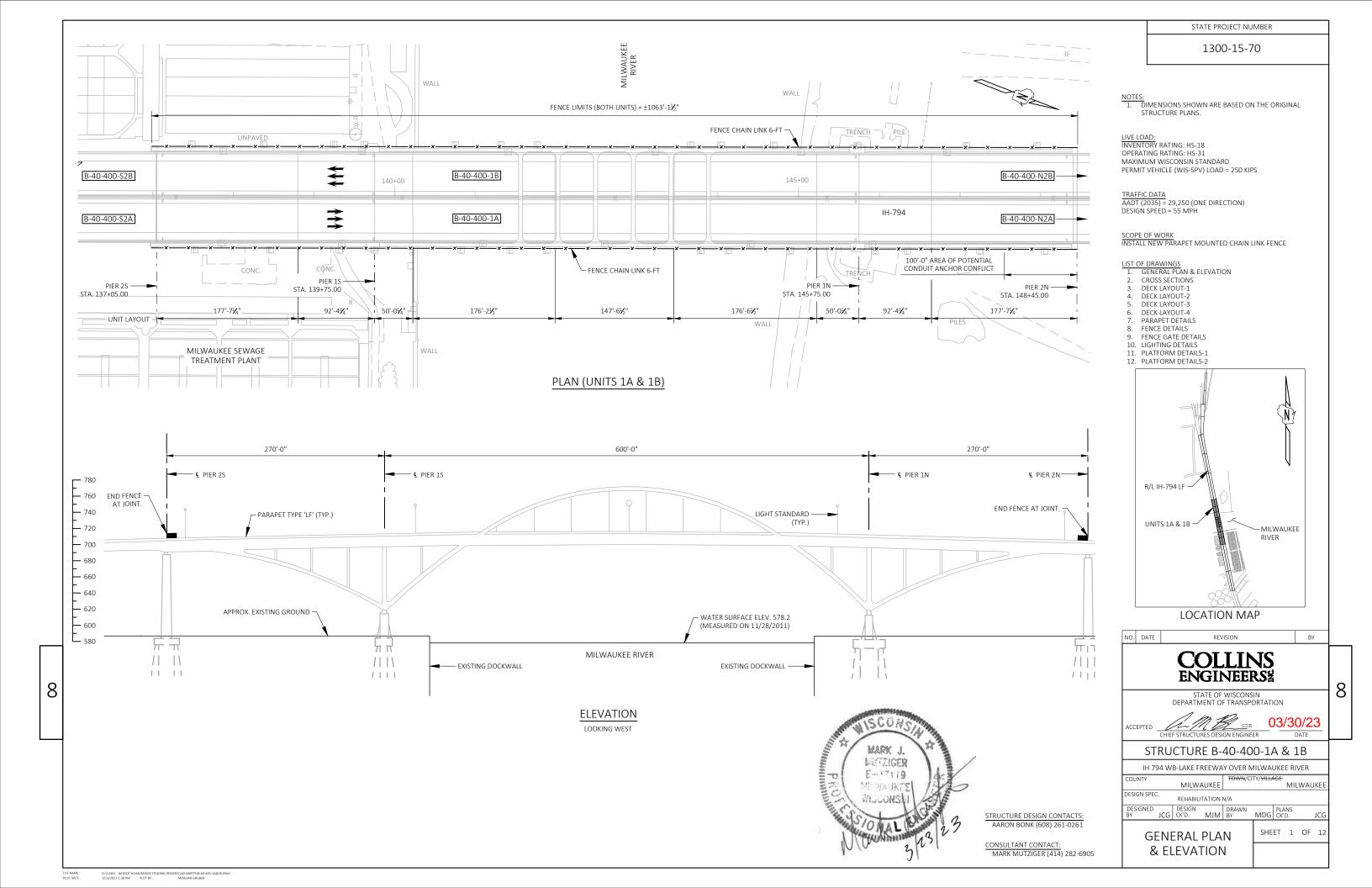
SHEET 4 OF

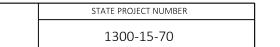


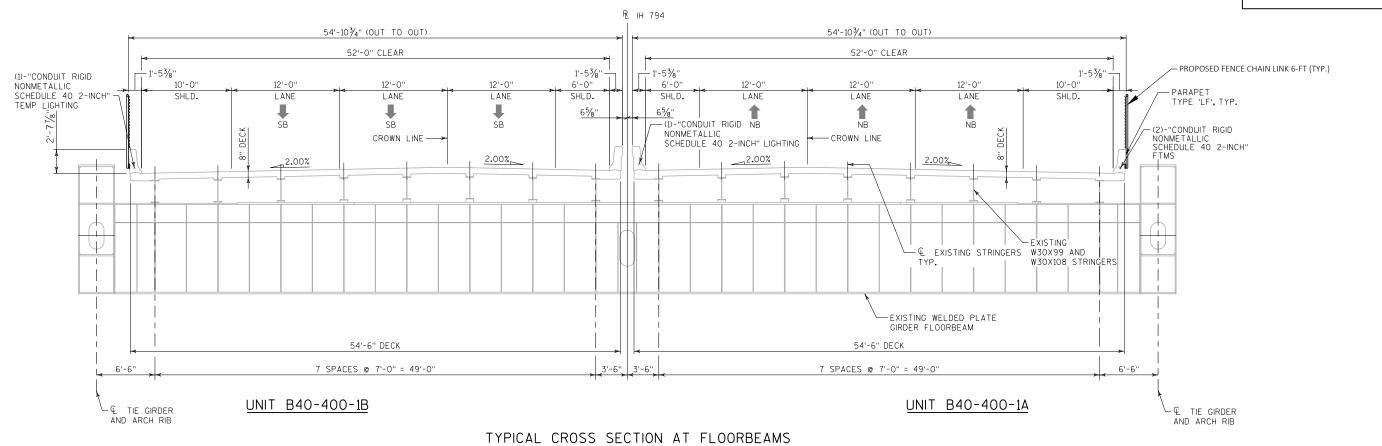
POST CLAMP SPACER DETAIL

POST CLAMP DETAIL









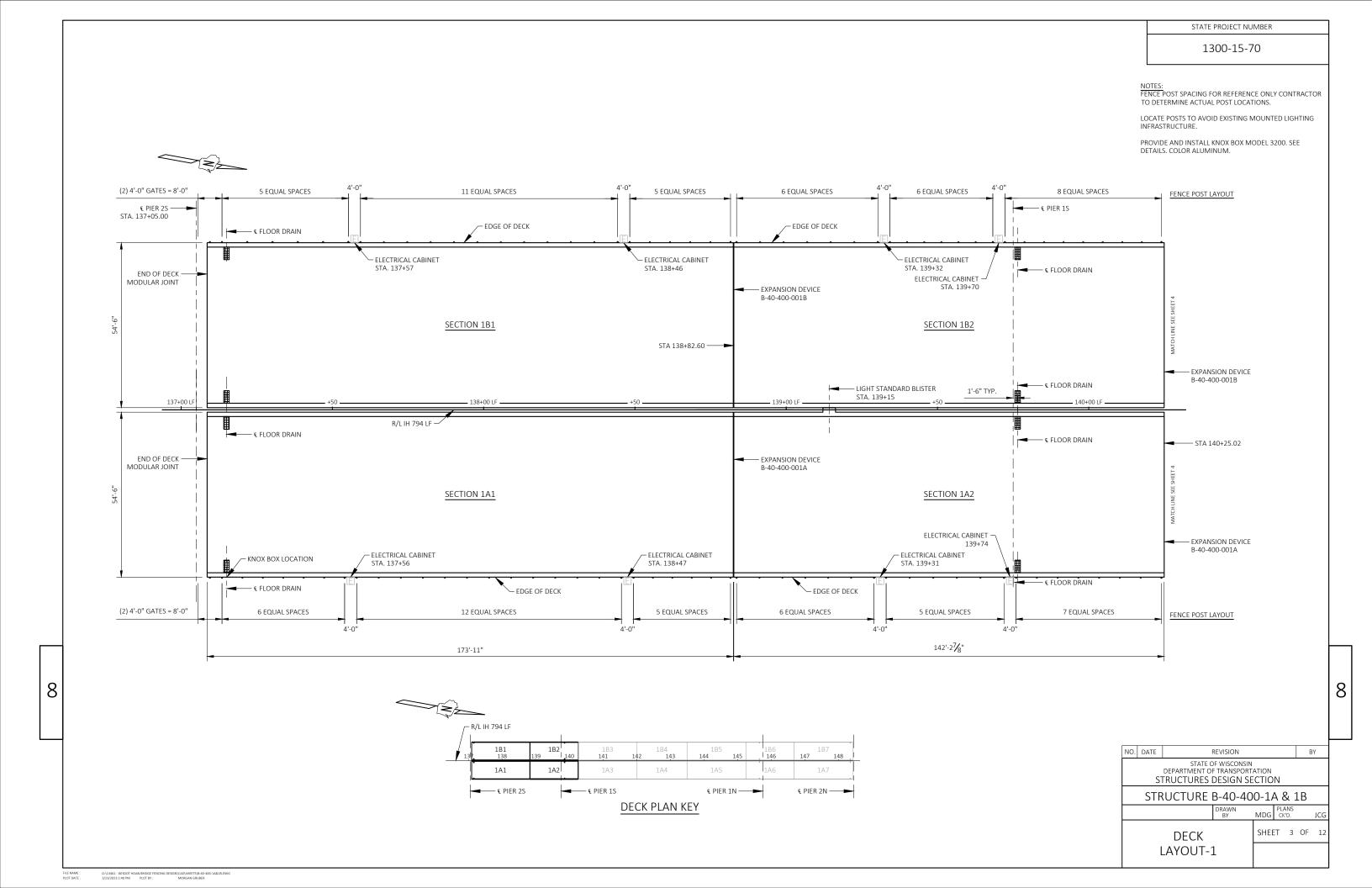
	ESTIMATE OF QUANTITIES		
ITEM NUMBER	BID ITEMS	QTY	UNIT
616.0206	FENCE CHAIN LINK 6-FT	2128	LF
616.0329	GATES CHAIN LINK 4-FT	38	EA
SPV.0060.01	UNIT 1A/1B PLATFORM	4	EA
SPV.0060.02	LOCK BOX	2	EA

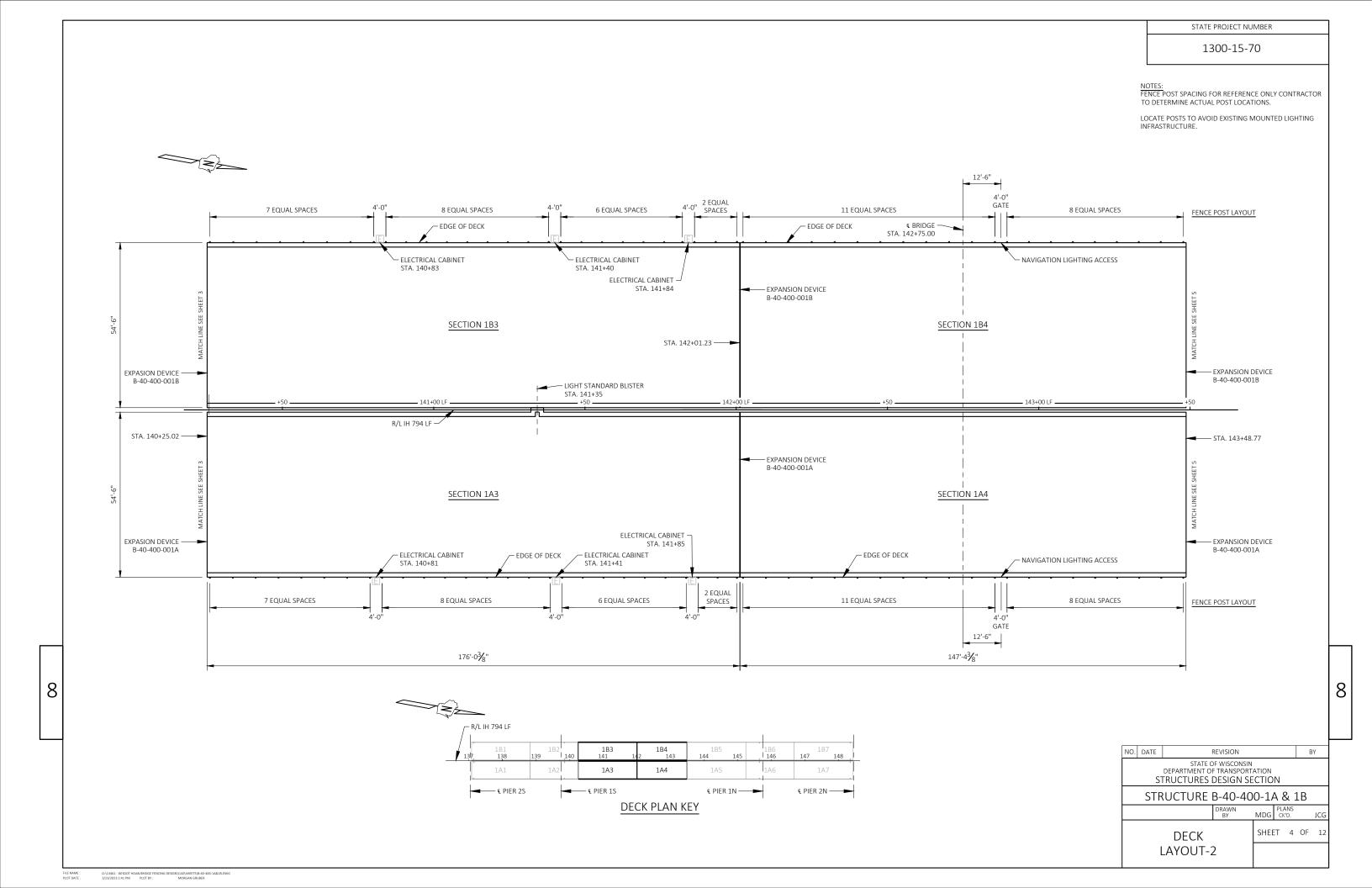
(LOOKING NORTH)

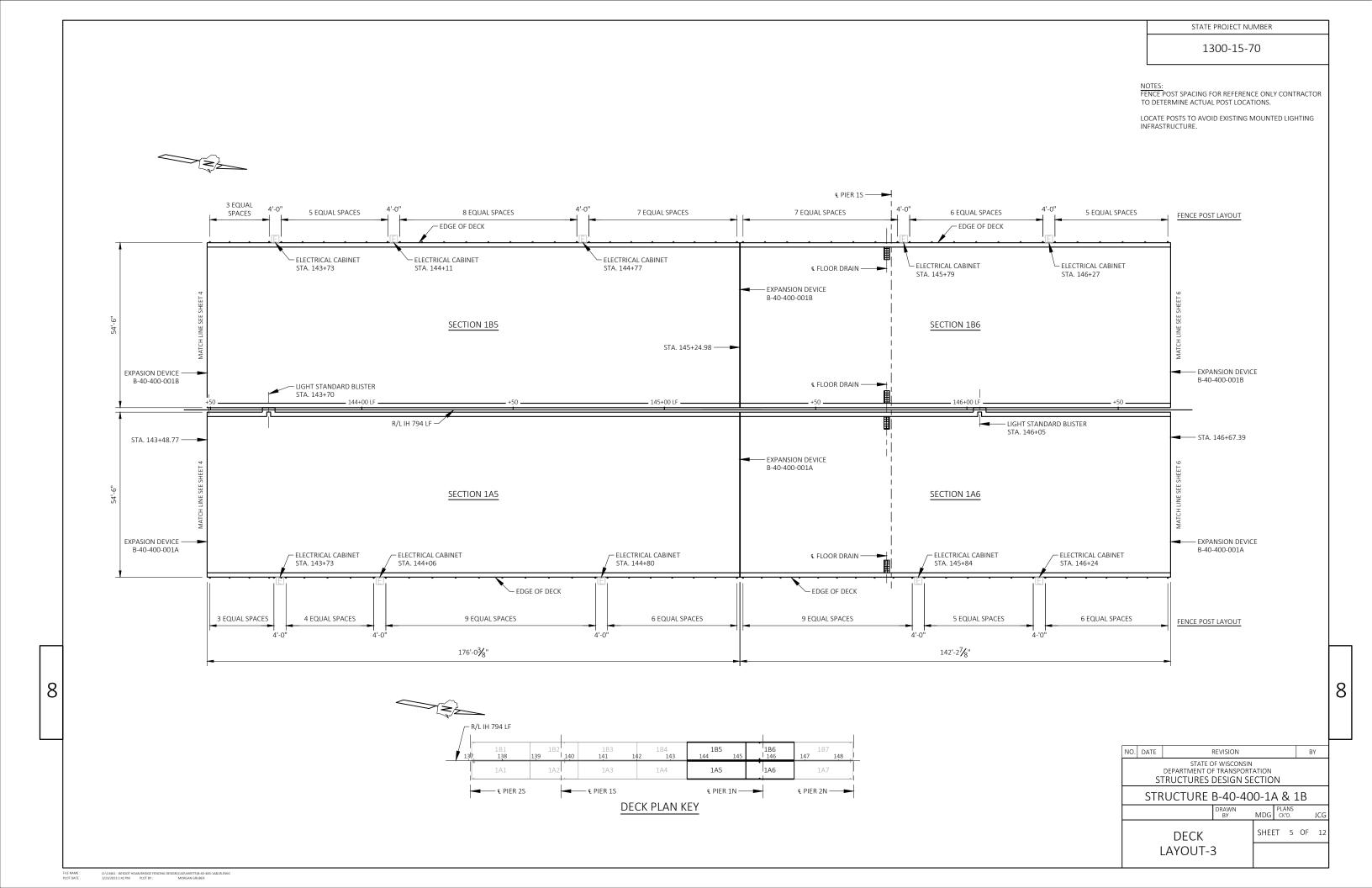
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NO. DATE REVISION BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION STRUCTURE B-40-400-1A & 1B MDG PLANS CK'D. SHEET 2 OF **CROSS SECTION**

G:\13461 - WISDOT HOAN BRIDGE FENCING DESIGN\CAD\SHEETS\8-40-400-1A&1B.DWG 3/23/2023 2:39 PM PLOT BY: MORGAN GRUBER







STATE PROJECT NUMBER 1300-15-70 NOTES: FENCE POST SPACING FOR REFERENCE ONLY CONTRACTOR TO DETERMINE ACTUAL POST LOCATIONS. LOCATE POSTS TO AVOID EXISTING MOUNTED LIGHTING INFRASTRUCTURE. PROVIDE AND INSTALL KNOX BOX MODEL 3200. SEE DETAILS. COLOR ALUMINUM. NE NEW YORK ← € PIER 2N STA. 148+45.00 (1) 4'-0" GATE & (1) 3'-6" GATE = 7'-6" 4'-0" 6 EQUAL SPACES 11 EQUAL SPACES 5 EQUAL SPACES FENCE POST LAYOUT – EDGE OF DECK – ELECTRICAL CABINET STA. 147+15 ELECTRICAL CABINET STA. 148+00 KNOX BOX LOCATION -SECTION 1B7 — END OF DECK MODULAR JOINT EXPASION DEVICE -B-40-400-001B € FLOOR DRAIN — → LIGHT STANDARD BLISTER -STA. 148+34 STA. 146+67.39 — — STA. 148+37.79 SECTION 1A7 – END OF DECK MODULAR JOINT EXPASION DEVICE -B-40-400-001A ELECTRICAL CABINET STA. 147+15 ELECTRICAL CABINET -STA. 147+96 € FLOOR DRAIN -- EDGE OF DECK (1) 4'-0" GATE & (1) 3'-6" GATE = 7'-6" 10 EQUAL SPACES 5 EQUAL SPACES 6 EQUAL SPACES FENCE POST LAYOUT 4'-0" 174'-83/4" – R/L IH 794 LF 1B7 STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION 1A7 ₹ PIER 1S € PIER 1N — ► € PIER 2N — — € PIER 2S STRUCTURE B-40-400-1A & 1B DECK PLAN KEY SHEET 6 OF 12 DECK LAYOUT-4

STATE PROJECT NUMBER 1300-15-70 LEGEND (2)-"CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH" FTMS #5 BARS #5 BARS ★ (1)-"CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH" FOR TEMPORARY LIGHTING #5 BARS #5 BARS F.F.-(2) 2" Ø RIGID CONDUIT ATTACHED TO P1000 SS VERTICAL (2) 2" Ø RIGID CONDUIT ATTACHED TO P1000 SS VERTICAL — CHANNELS ATTACHED TO PARAPET WITH (2) ½" Ø HILTI HAS-R 316 SS THREADED RODS WITH HILTI HIT-RE 500V3 CHANNELS ATTACHED TO PARAPET WITH (2) ½" Ø HILTI HAS-R 316 SS THREADED RODS WITH HILTI HIT-RE 500V3 EPOXY, EMBEDDED 4" MIN. EPOXY, EMBEDDED 4" MIN. #5 DOWELS #5 DOWELS @ 8" CTRS. @ 8" CTRS. SECTION THRU SECTION THRU OUTSIDE PARAPET OUTSIDE PARAPET UNIT 1B UNIT 1A ELECTRICAL CABINET -P1000 SS HORIZONTAL CHANNEL 1" THICK 2" X 2" ALUMINUM SPACERS -- STEEL PLATE SEE DETAIL 9 THIS SHEET ¾" THICK ALUMINUM (4) ¾" Ø HILTI HAS-R 316 SS PERFORATED METAL, $rac{1}{2}$ " ROUND THREADED RODS WITH HILTI HIT-RE 500V3 EPOXY, 7" EMBED P1001 SS VERTICAL CHANNELS -- HSS4X2X¾ (LONG SIDE HORZ) HSS4X2X¾ -- ¾" STEEL PLATE - MESSENGER CABLE AND 1/8" Ø HOLE FOR GALVANIZING VENT/DRAIN -ASSOCIATED HARDWARE \circ \circ 0 \circ \circ \circ \circ %" Ø HOLES FOR %" Ø ANCHORS; INSTALL (1) - ANCHOR IN EITHER HOLE IN EACH CORNER. ALTERNATE HOLES PROVIDED TO AVOID EMBEDDED ITEMS IN CONCRETE PARAPET. 12" DETAIL 9 EXISTING LIGHTING EXISTING LIGHTING INFRASTRUCTURE INFRASTRUCTURE CABLE ARM **ELECTRICAL CABINETS** NO. DATE STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION STRUCTURE B-40-400-1A & 1B SHEET 7 OF 12 PARAPET

8

DETAILS





POSTS ARE TO BE SET VERTICAL.

1ETALLIC-COATED FENCE SYSTEM:

ALL FENCE COMPONENTS SHALL BE GALVANIZED STEEL, EXCEPT THE FENCE FABRIC WHICH SHALL BE ALUMINUM-COATED STEEL.

FABRIC SHALL CONFORM TO ASTM A491. STEEL RAILS, POSTS AND POST SLEEVES SHALL CONFORM TO ASTM F1083, STANDARD WEIGHT PIPE (SCHEDULE 40). FITTINGS SHALL CONFORM TO ASTM F626.

STEEL POSTS SHALL BE HIGH STRENGTH GRADE 50.

THE BID ITEM SHALL BE "FENCE CHAIN LINK 6- FT."

COMPLETE ANY REQUIRED WELDING OF COMPONENTS BEFORE GALVANIZING.

POST CLAMPS AND POST CLAMP SPACERS SHALL BE ASTM A709, GRADE 36.

TENSION WIRE SHALL BE 7 GAGE STEEL WIRE COATED IN ACCORDANCE WITH ASTM A824 AND A817 AS TYPE I (ALUMINUMIZED).

ALL POST SPACINGS ARE MEASURED HORIZONTALLY ALONG THE C/L OF THE POST

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE STAINLESS STEEL.

CONCRETE ADHESIVE ANCHORS ¾"-INCH. EMBED 5" IN CONCRETE. ADHESIVE ANCHORS SHALL CONFORM TO SECTIONS 502.2.12 AND 502.3.14 OF THE STANDARD SPECIFICATIONS.

PAYMENT FOR ADHESIVE ANCHOR AND ANCHOR HARDWARE INCIDENTAL TO CHAIN LINK FENCE ITEM.

ATTACH FABRIC TO RAILS, AND TO POSTS WITHOUT TENSION BANDS, WITH TIE WIRES (ROUND, 9-GAGE) SPACED AT 1'-0".

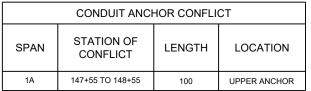
PROVIDE TENSION POST AND BRACE RAILS TO LIMIT TENSION WIRE RUNS TO LESS THAN 500 FEET.

PARAPET HAS INTERNAL CONDUIT. INSPECT ALL ANCHOR HOLES BEFORE ADHESIVE INSTALLATION. NOTIFY ENGINEER IF CONDUIT IS ENCOUNTERED DURING ADHESIVE ANCHOR INSTALLATION. SEE TABLE BELOW FOR POTENTIAL CONDUIT CONFLICT WITH TYPICAL ADHESIVE ANCHOR LOCATION.

STRUCTURAL TUBING SHALL BE ASTM A500 AND GALVANIZED.

CONTRACTOR TO PROVIDE DUST CONTROL DURING EPOXY ANCHOR INSTALLATION. SUBMIT COLLECTION METHOD FOR APPROVAL. DUST COLLECTION INCIDENTAL TO FENCE ITEM.

ATTACH KNOX BOX TO TRAFFIC SIDE OF CHAIN LINK FENCE FABRIC WITH 1/2" THICK GALVANIZED PLATE. BOLT BOX TO PLATE WITH FOUR 3/8" DIA. STAINLESS STEEL BOLTS, NUTS AND WASHERS. ATTACH BOX TO FENCE POST WITH TWO BRACKETS. SEE DETAILS SHEET 12.



* REVISE DIMENSION TO 4.5" AT LOCATIONS NOTED TO AVOID POTENTIAL CONFLICT WITH CONDUIT INTERNAL TO PARAPET.

NO. DATE REVISION BY

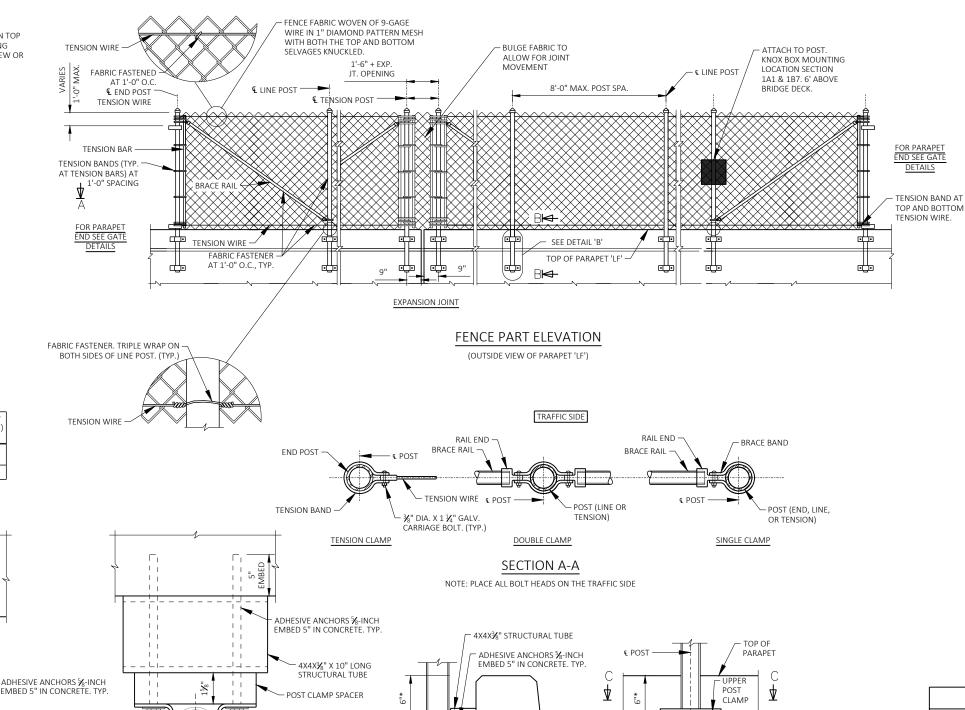
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-400-1A & 1B

DRAWN MDG CKID. JCG

FENCE
DETAILS

SHEET 8 OF 12



0

DETAIL 'B'

- LOWER

POST

CLAMP

- 4X4X¾" STRUCTURAL TUBE. TYP.

STEEL

CLAMP

CLAMP

SECTION B-B

- 4X4X¾" STRUCTURAL TUBE

LOWE

CLAM

ADHESIVE ANCHORS %-INCH

EMBED 5" IN CONCRETE. TYP.

- ¾" DIA BOLT WITH HEX HEAD NUT AND TWO WASHERS. TYP.

¾" DIA. BOLT WITH HEX HEAD

NUT AND TWO WASHERS, TYP.

¾" DIA HOLF FOR %"

DIA. ANCHOR RODS.

1½"

STEEL POST

4X4X¾" X 10" LONG

STRUCTURAL TUBE

POST CLAMP

155 [78]

1 1/5"

€ POST -

2 3/4"

SECTION C-C

6 ½'

POST CLAMP DETAIL

"THICK BENT PLATE

- € POST

2 3/1"

PLACE ORNAMENTAL CAPS ON TOP

OF END POSTS AND OVERHANG POSTS WITH TAPPED SET SCREW OR

BOLT (TYP.)

BOTTOM OF

1" CLR.

SECTION THRU FENCE

ON PARAPET 'LF'

PROTECTIVE SCREENING SHALL BE STRAIGHT.

STEEL FENCE MEMBER

OR TENSION)

BRACE RAIL

FENCE MEMBER

SIZE & WEIGHT

OUTSIDE DIAMETER

(INCHES

3.50

1.66

(LB/FT

7.576

2.273

¾" DIA. BOLT WITH HEX HEAD

NUT AND TWO WASHERS. TYP.

¾" DIA HOLF

FOR 5/4" DIA

11/3" ANCHOR RODS.

POST CLAMP

155 TP.)

11/2"

SECTION D-D

6 ½"

91/2"

POST CLAMP SPACER DETAIL

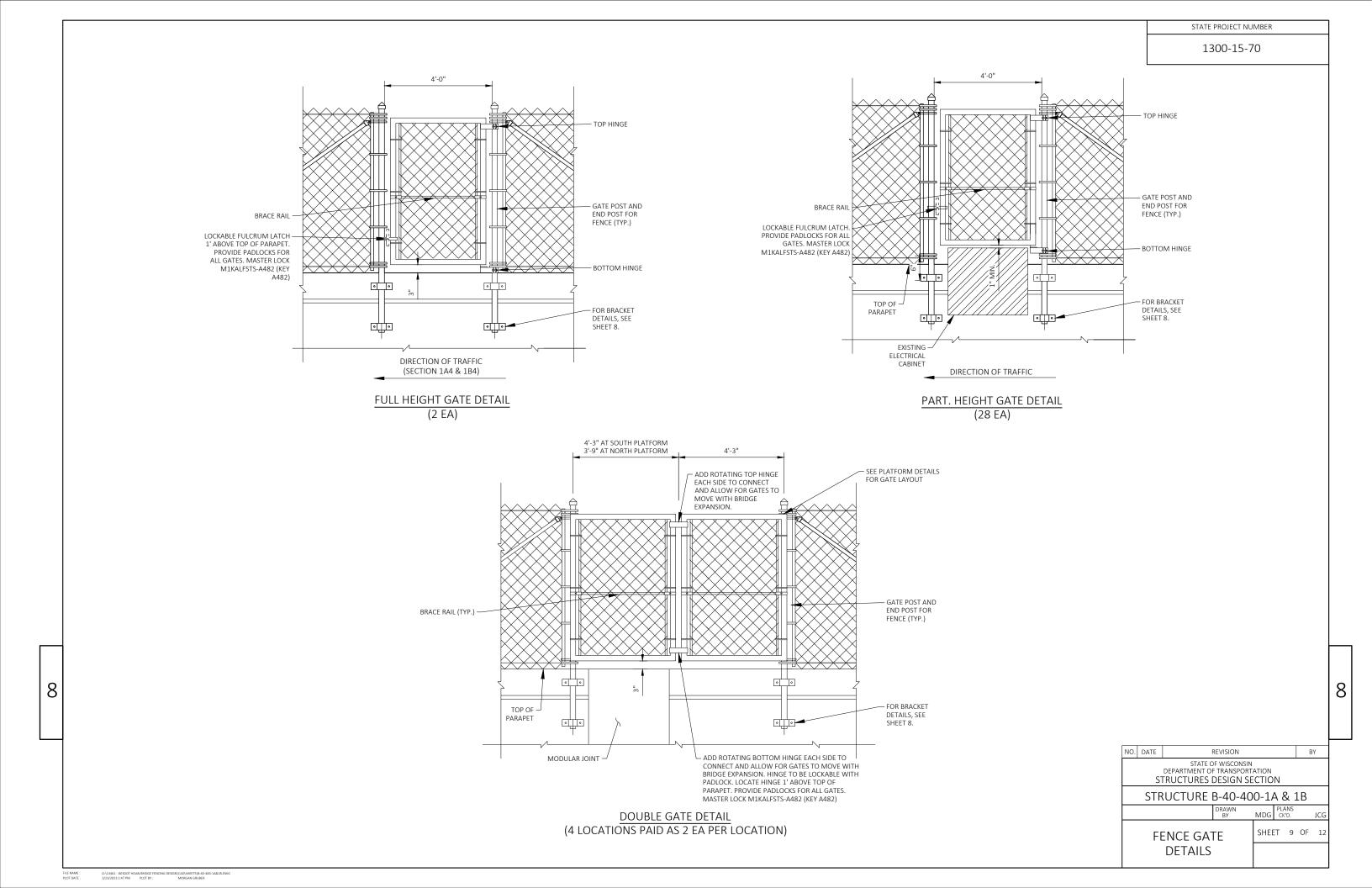
— € POST

FENCE FABRIC

TENSION WIRE

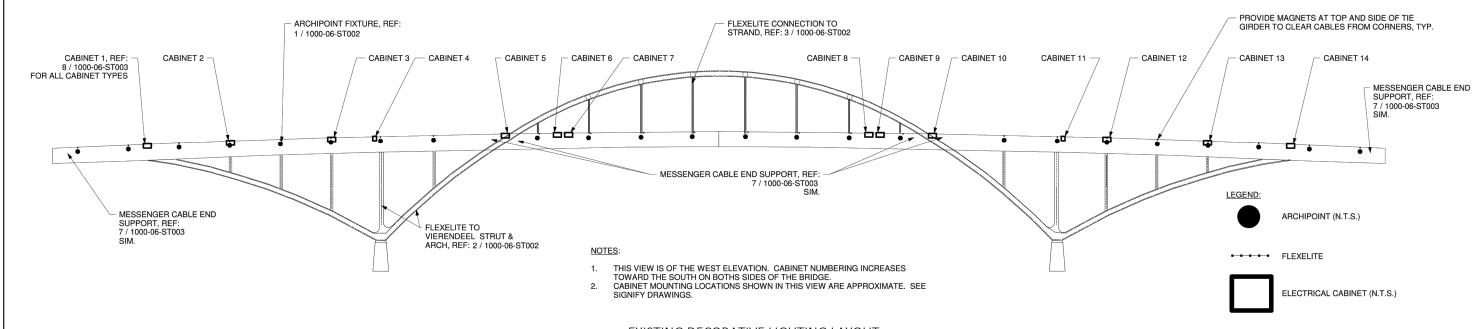
TENSION WIRE -

STEEL POST



STATE PROJECT NUMBER

1300-15-70



EXISTING DECORATIVE LIGHTING LAYOUT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

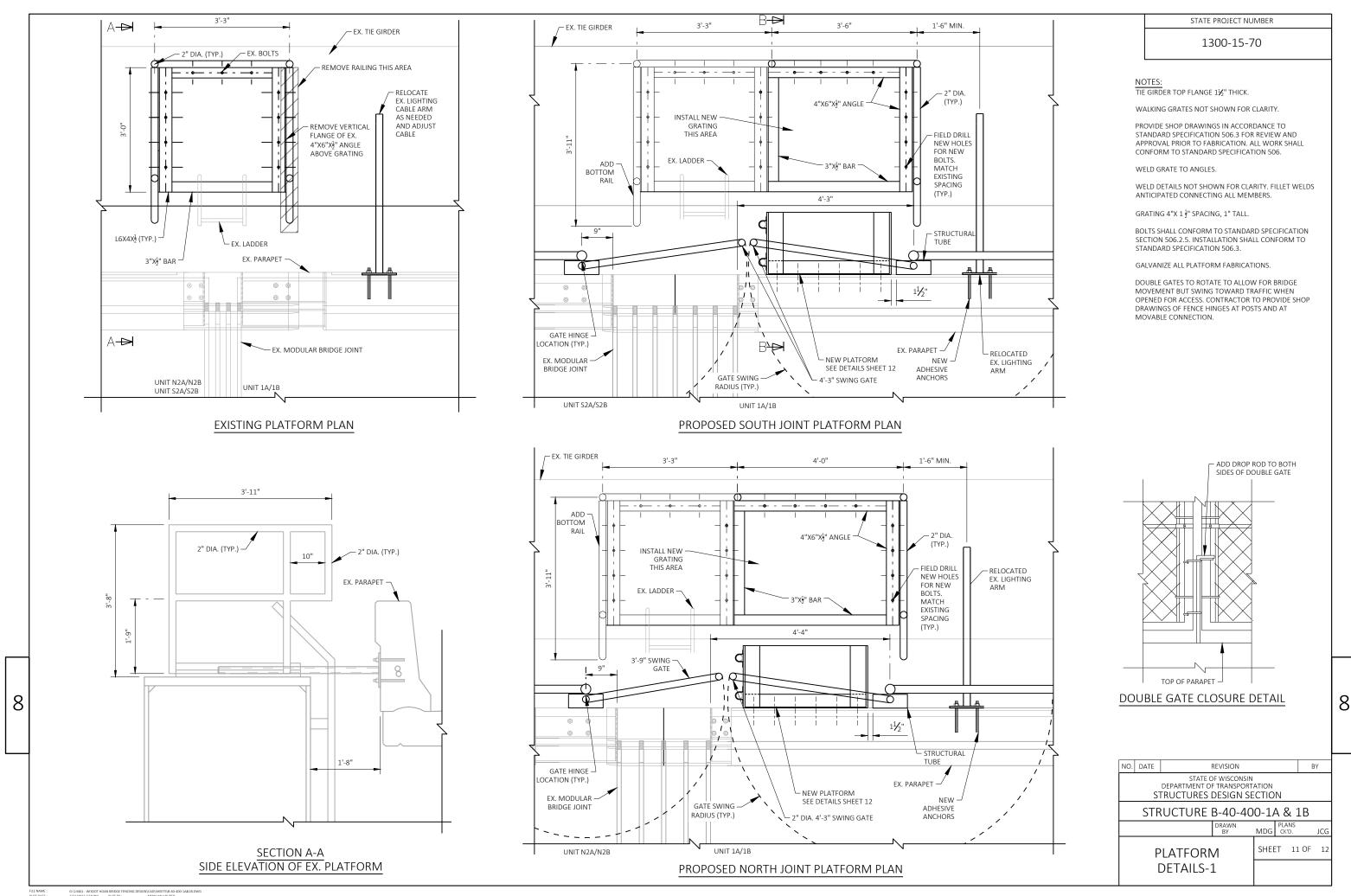
STRUCTURE B-40-400-1A & 1B

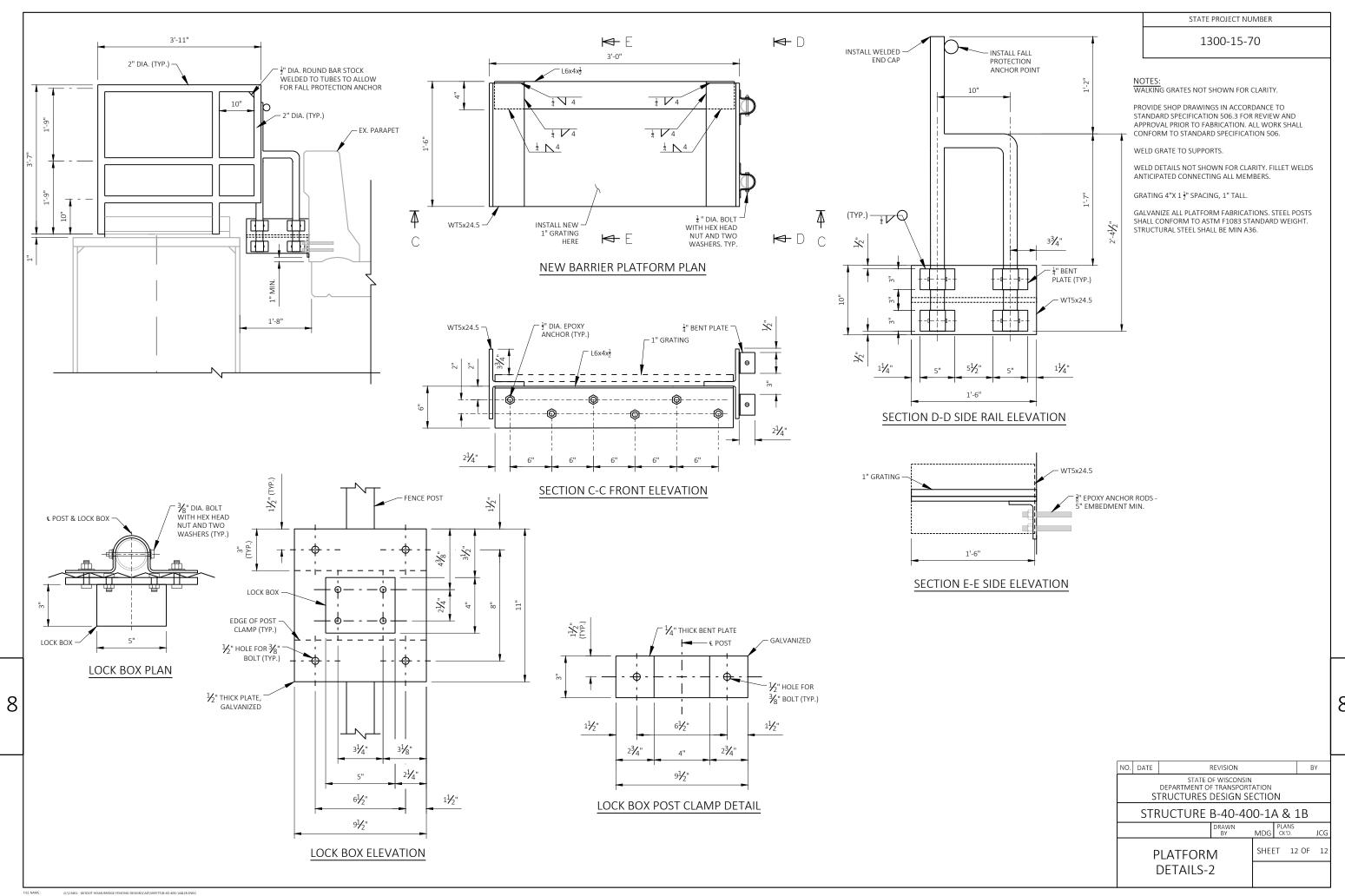
DRAWN
BY
MDG
CKD. JCG

LIGHTING
DETAILS

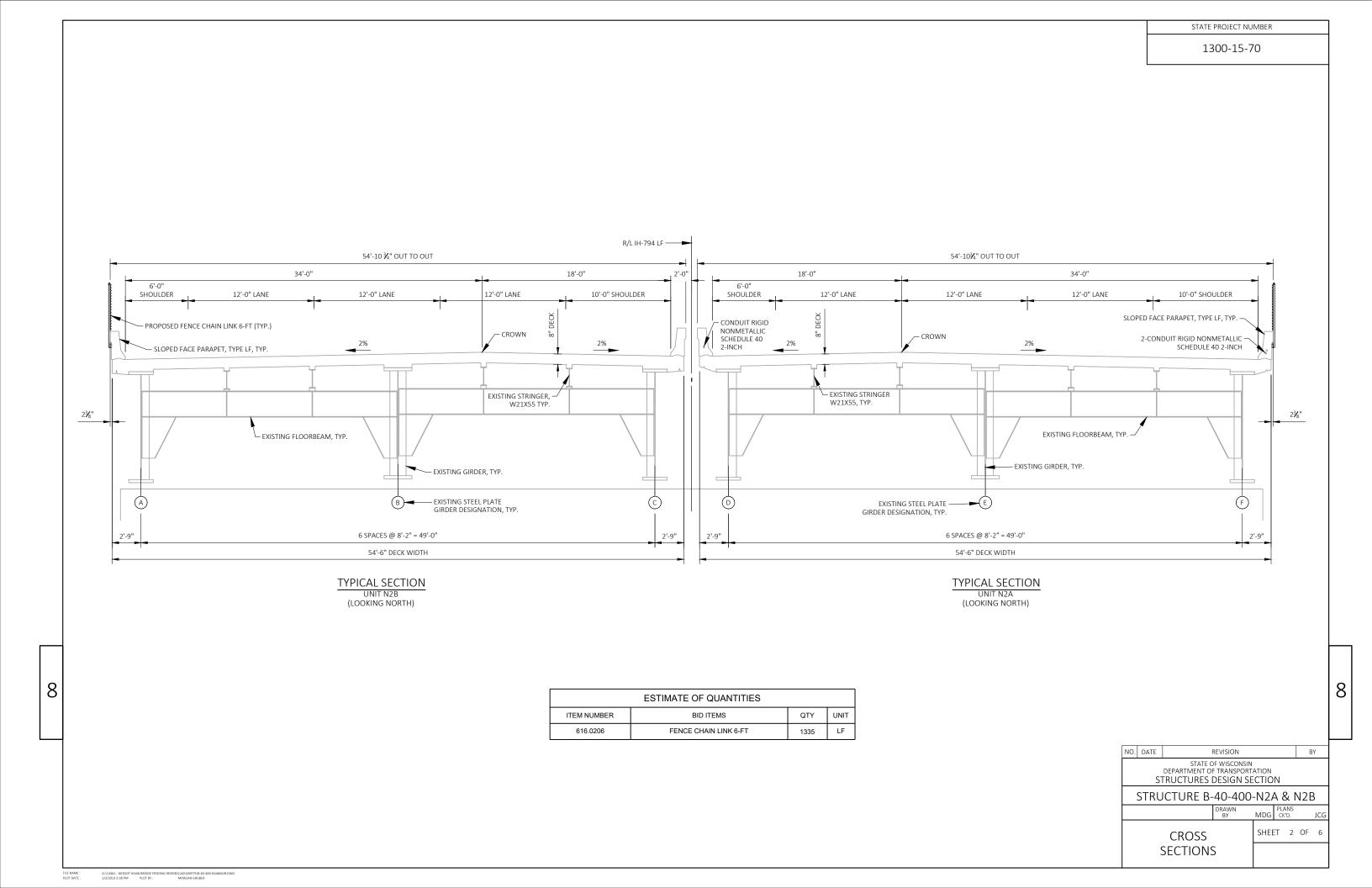
8

G-\13461 - WISDOT HOAN BRIDGE FENCING DESIGN\CAD\SHEETS\B-40-400-1A8.18.DWG 3/23/2023 2-48 PM PLOT BY: MORGAN GRUBER

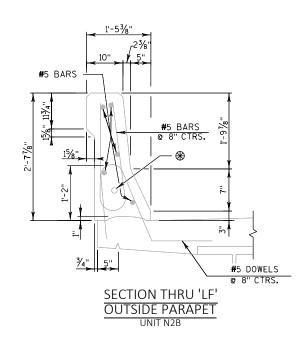


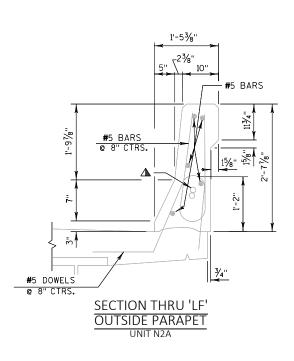


STATE PROJECT NUMBER 1300-15-70 FENCE LIMITS (UNIT N2B) = 665'-2" INTERNAL JUNCTION BOX -STA. 152+25 INTERNAL JUNCTION BOX -INTERNAL JUNCTION BOX -PLACE TENSION POST AND BRACE -RAILS AT APPROXIMATELY MIDDLE STA. 148+63 STA. 154+06 INTERNAL JUNCTION BOX -PROPOSED FENCE -INTERNAL JUNCTION BOX -CHAIN LINK 6-FT (TYP.) STA. 150+45 1. DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STA. 148+47 STRUCTURE PLANS. LIGHT STANDARD -LIVE LOAD: INVENTORY RATING: HS-20 È B-40-400-N2B STA. 150+70 OPERATING RATING: HS-33 MAXIMUM WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) LOAD = 250 KIPS LIGHT STANDARD STA. 153+05 B-40-400-N2A 1'-4½" TRAFFIC DATA AADT (2035) = 29,250 (ONE DIRECTION) DESIGN SPEED = 55 MPH - INTERNAL JUNCTION BOX STA. 157+45.00 CAMERA BLISTER -SCOPE OF WORK
INSTALL NEW PARAPET MOUNTED CHAIN LINK FENCE LOCATION € EXPANSION JOINT & € BRG. EXPANSION JOINT 5N F. BRG. PIFR 4N € BRG. PIER 3N STA. 153+45.00 € BRG. PIER 2N STA. 152+71.00 STA. 154+84.00 STA. 155+09.00 STA. 150+58.00 STA. 148+45.00 - PLACE TENSION POST AND BRACE RAILS AT APPROXIMATELY MIDDLE OF UNIT 5'-0" 88'-0" AREA OF LIST OF DRAWINGS POTENTIAL CONDUIT 10'-111" 320'-0" AREA OF POTENTIAL CONDUIT ANCHOR CONFLICT 35'-43/4" ANCHOR CONFLICT 82'-41/5" GENERAL PLAN & ELEVATION CROSS SECTIONS PARAPET DETAILS 38'-0" AREA OF POTENTIAL CONDUIT CAMERA BLISTER DETAILS ANCHOR CONFLICT FENCE DETAILS 6. MODULAR JOINT DETAILS FENCE LIMITS (UNIT N2A) = 668'-1" PLAN (UNITS N2A & N2B) CHICAGO ST 1'-4½" 213'-0" 213'-0" 213'-0" 25'-0" € BRG. PIER 2N -€ BRG. PIER 3N — € BRG. PIER 4N — € BRG. PIER 5N ——► B-40-400-N2A & N2B € BRG.JOINT 5N -END FENCE AT -- PARAPET TYPE 'LF' - END FENCE AT JOINT. JOINT, SEE SEE FENCE DETAILS FENCE DETAILS MICHIGAN FOR CANTILEVER (NB FOR CANTILEVER (SB ONLY). - 640 ----- 620 EXISTING GROUNDLINE -- 600 LOCATION MAP H H NO. DATE / | | | | \ / | | | \ / 1 1 1 1 11111 / | | | \ / | | | \ MARK J. STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION E-17:19 **ELEVATION** CHIEF STRUCTURES DESIGN ENGINEER DATE ACCEPTED LOOKING WEST STRUCTURE B-40-400-N2A & N2B IH 794-LAKE FREEWAY OVER LAND MILWAUKEE MILWAUKEE DESIGN SPEC. REHABILITATION N/A JCG CK'D. MJM BY STRUCTURE DESIGN CONTACTS: AARON BONK (608) 261-0261 SHEET 1 OF 6 **GENERAL PLAN** CONSULTANT CONTACT:
MARK MUTZIGER (414) 282-6905 & ELEVATION



1300-15-70



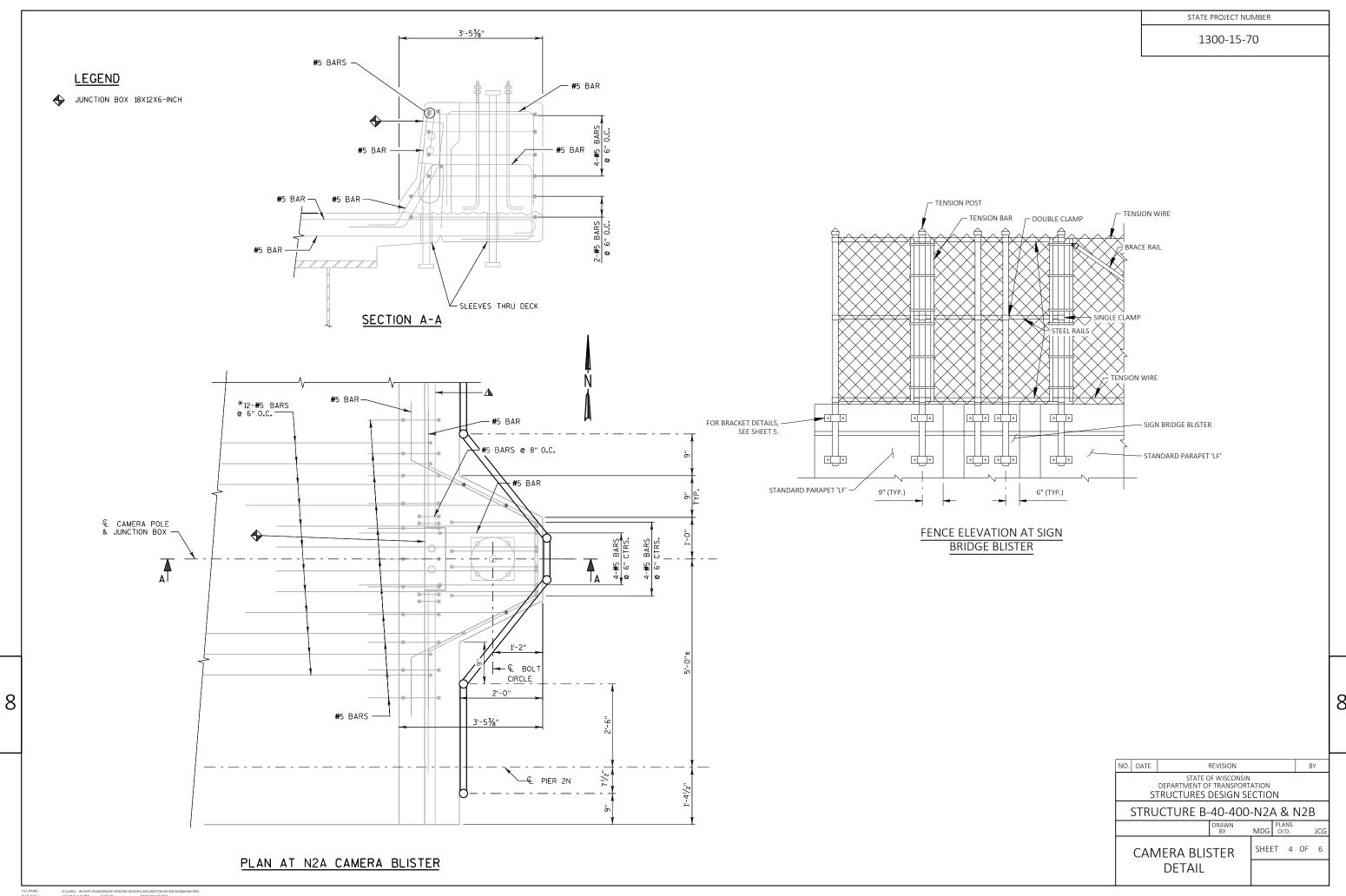


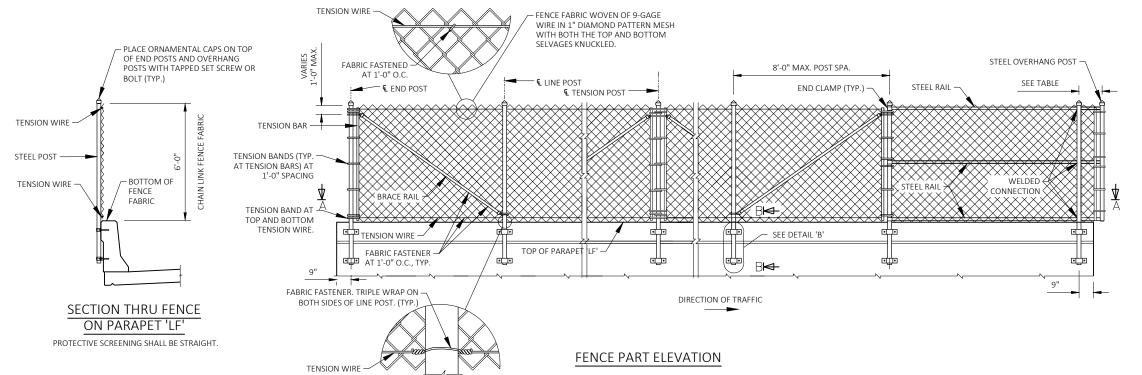
<u>LEGEND</u>

- (1) "CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH" LIGHTING CONDUIT, MEDIAN PARAPET
- ⚠ (2) "CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH" FOR FTMS COMMUNICATIONS.

NO.	DATE		REVISION			В	βY			
		STATE OF PARTMENT CO	OF WISCONSIN							
	S	TRUCTURES	DESIGN SE	CTIO	N					
STRUCTURE B-40-400-N2A & N2B										
			DRAWN BY	MDG	PLANS CK'D.		JCG			
		PARAPET	Γ	SHEE	T 3	OF	6			

PARAPET **DETAILS**

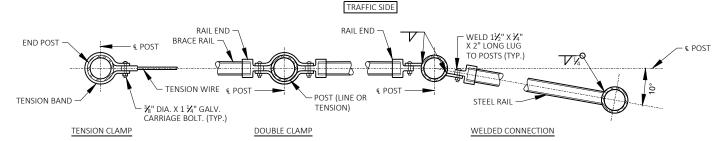




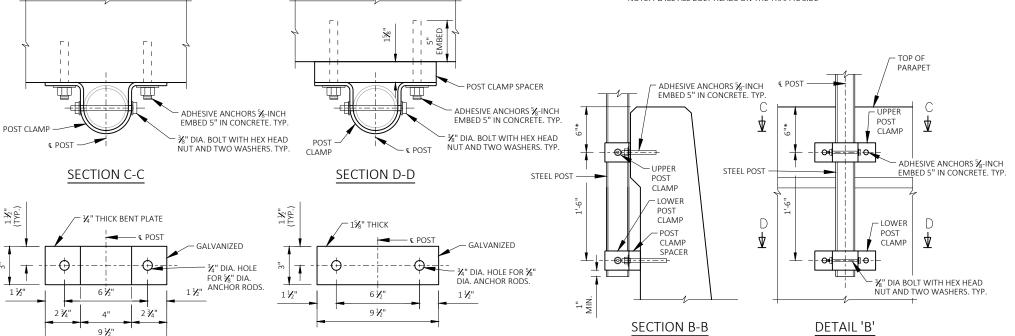
SIZE & WEIGHT STEEL FENCE MEMBER OUTSIDE DIAMETER (LB/FT POST (END, LINE 3.50 7.576 OR TENSION BRACE RAIL 1.66

2.273

FENCE MEMBER







POST CLAMP SPACER DETAIL

NOTES:

POSTS ARE TO BE SET VERTICAL

METALLIC-COATED FENCE SYSTEM:

ALL FENCE COMPONENTS SHALL BE GALVANIZED STEEL, EXCEPT THE FENCE FABRIC WHICH SHALL BE ALUMINUM-COATED STEEL.

FABRIC SHALL CONFORM TO ASTM A491. STEEL RAILS, POSTS AND POST SLEEVES SHALL CONFORM TO ASTM F1083, STANDARD WEIGHT PIPE (SCHEDULE 40). FITTINGS SHALL CONFORM TO ASTM F626. STEEL POSTS SHALL BE HIGH STRENGTH GRADE 50.

STEEL POSTS SHALL BE HIGH STRENGTH GRADE 50.

THE BID ITEM SHALL BE "FENCE CHAIN LINK 6- FT."

COMPLETE ANY REQUIRED WELDING OF COMPONENTS BEFORE GALVANIZING.

POST CLAMPS AND POST CLAMP SPACERS SHALL BE ASTM A709, GRADE

TENSION WIRE SHALL BE 7 GAGE STEEL WIRE COATED IN ACCORDANCE WITH ASTM A824 AND A817 AS TYPE I (ALUMINUMIZED).

ALL POST SPACINGS ARE MEASURED HORIZONTALLY ALONG THE C/L OF THE POST.

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE STAINLESS STEEL.

CONCRETE ADHESIVE ANCHORS $\frac{1}{8}$ "-INCH. EMBED 5" IN CONCRETE. ADHESIVE ANCHORS SHALL CONFORM TO SECTIONS 502.2.12 AND 502.3.14 OF THE STANDARD SPECIFICATIONS.

PAYMENT FOR ADHESIVE ANCHOR AND ANCHOR HARDWARE INCIDENTAL TO CHAIN LINK FENCE ITEM.

ATTACH FABRIC TO RAILS, AND TO POSTS WITHOUT TENSION BANDS, WITH TIE WIRES (ROUND, 9-GAGE) SPACED AT 1'-0".

PROVIDE TENSION POST AND BRACE RAILS TO LIMIT TENSION WIRE RUNS TO LESS THAN 500 FEET.

PARAPET HAS INTERNAL CONDUIT. INSPECT ALL ANCHOR HOLES BEFORE ADHESIVE INSTALLATION. NOTIFY ENGINEER IF CONDUIT IS ENCOUNTERED DURING ADHESIVE ANCHOR INSTALLATION. SEE TABLE BELOW FOR POTENTIAL CONDUIT CONFLICT WITH TYPICAL ADHESIVE ANCHOR LOCATION.

CONTRACTOR TO PROVIDE DUST CONTROL DURING EPOXY INSTALLATION. SUBMIT COLLECTION METHOD FOR APPROVAL. DUST COLLECTION INCIDENTAL TO FENCE ITEM.

	CONDUIT ANCHO	OR CONFLI	СТ
SPAN	STATION OF CONFLICT	LENGTH	LOCATION
N2A	148+55 TO 151+75	320	UPPER ANCHOR
N2A	152+64 TO 153+02	38.00	UPPER ANCHOR
N2A	153+45 TO 154+33	88.0	UPPER ANCHOR

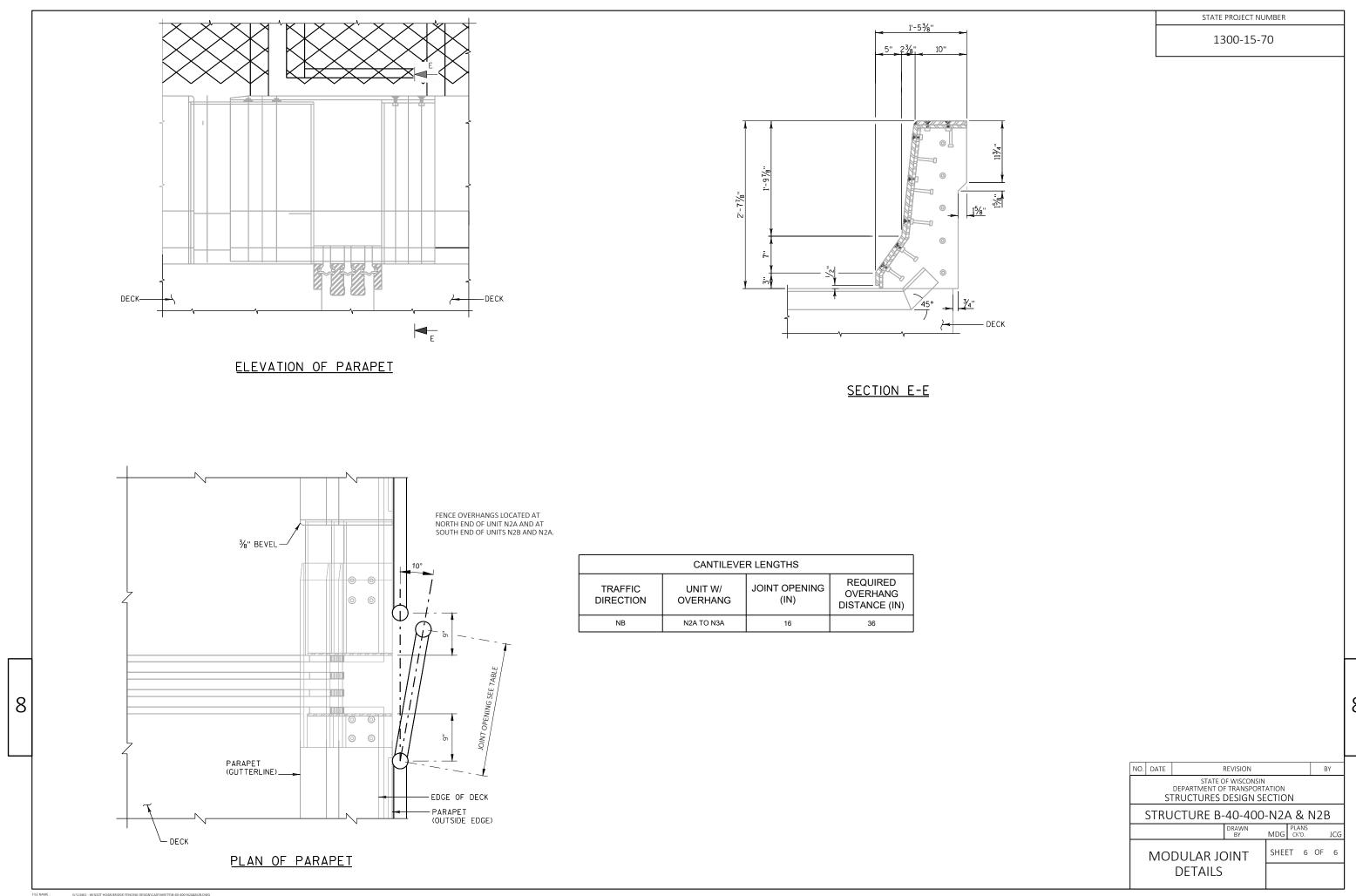
* REVISE DIMENSION TO 4.5" AT LOCATIONS NOTED TO AVOID POTENTIAL CONFLICT WITH CONDUIT INTERNAL TO PARAPET. REVISE DIMENSION TO 7" AT APPROXIMATELY STA 150+45 TO AVOID POTENTIAL CONFLICT WITH CONDUIT INTERNAL TO PARAPET

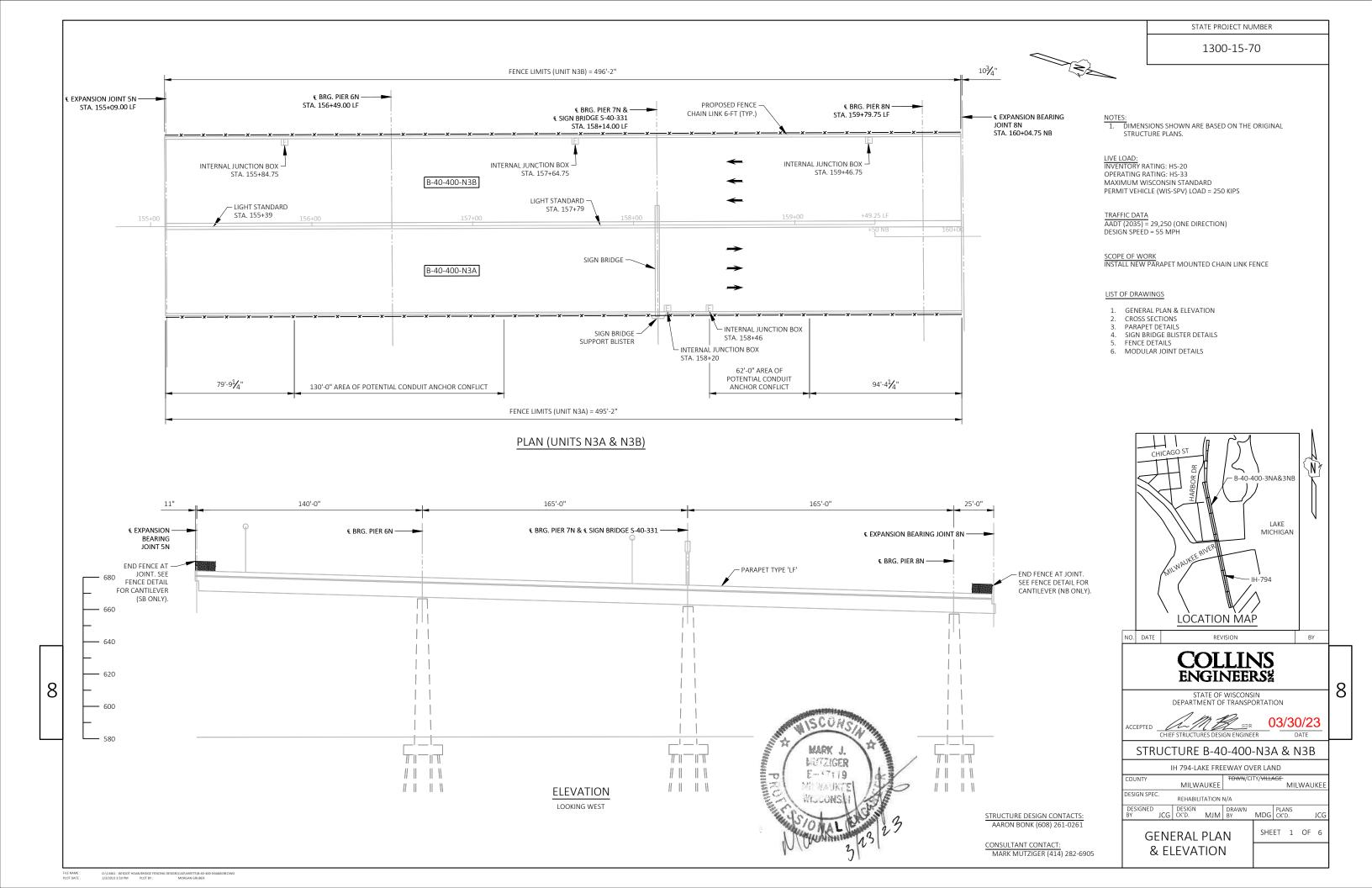
> STATE OF WISCONSIN
> DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION STRUCTURE B-40-400-N2A & N2B

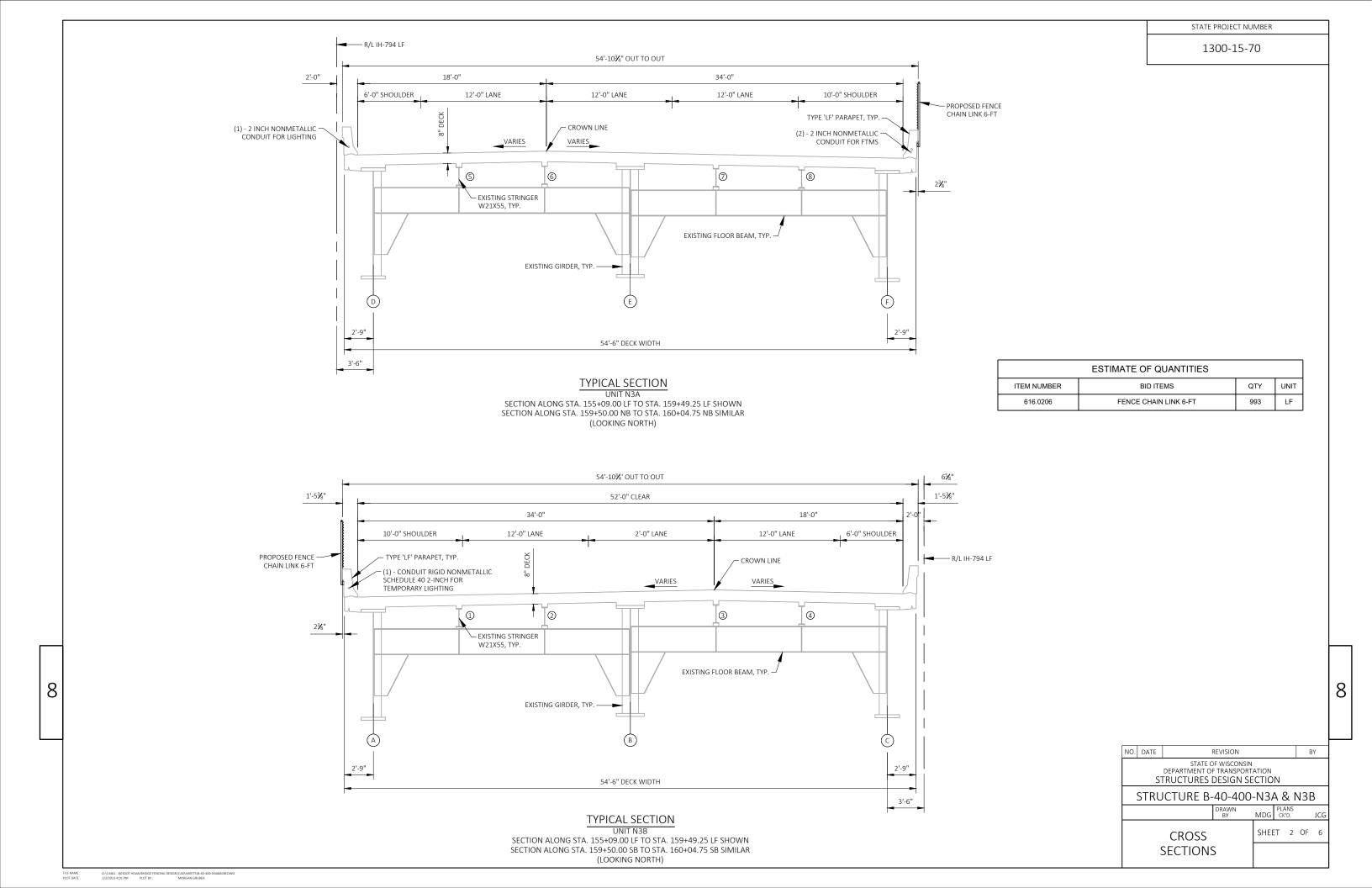
> > **FENCE DETAILS**

SHEET 5 OF

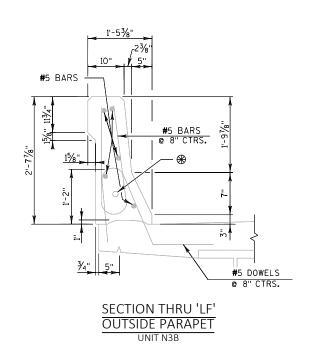
POST CLAMP DETAIL

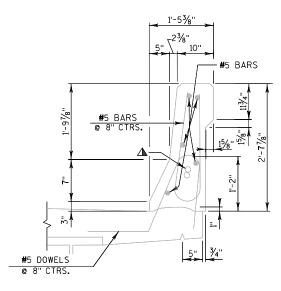






1300-15-70





SECTION THRU 'LF'
OUTSIDE PARAPET
UNIT N3A

<u>LEGEND</u>

(1) - "CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH FOR TEMPORARY LIGHTING.

DETAILS

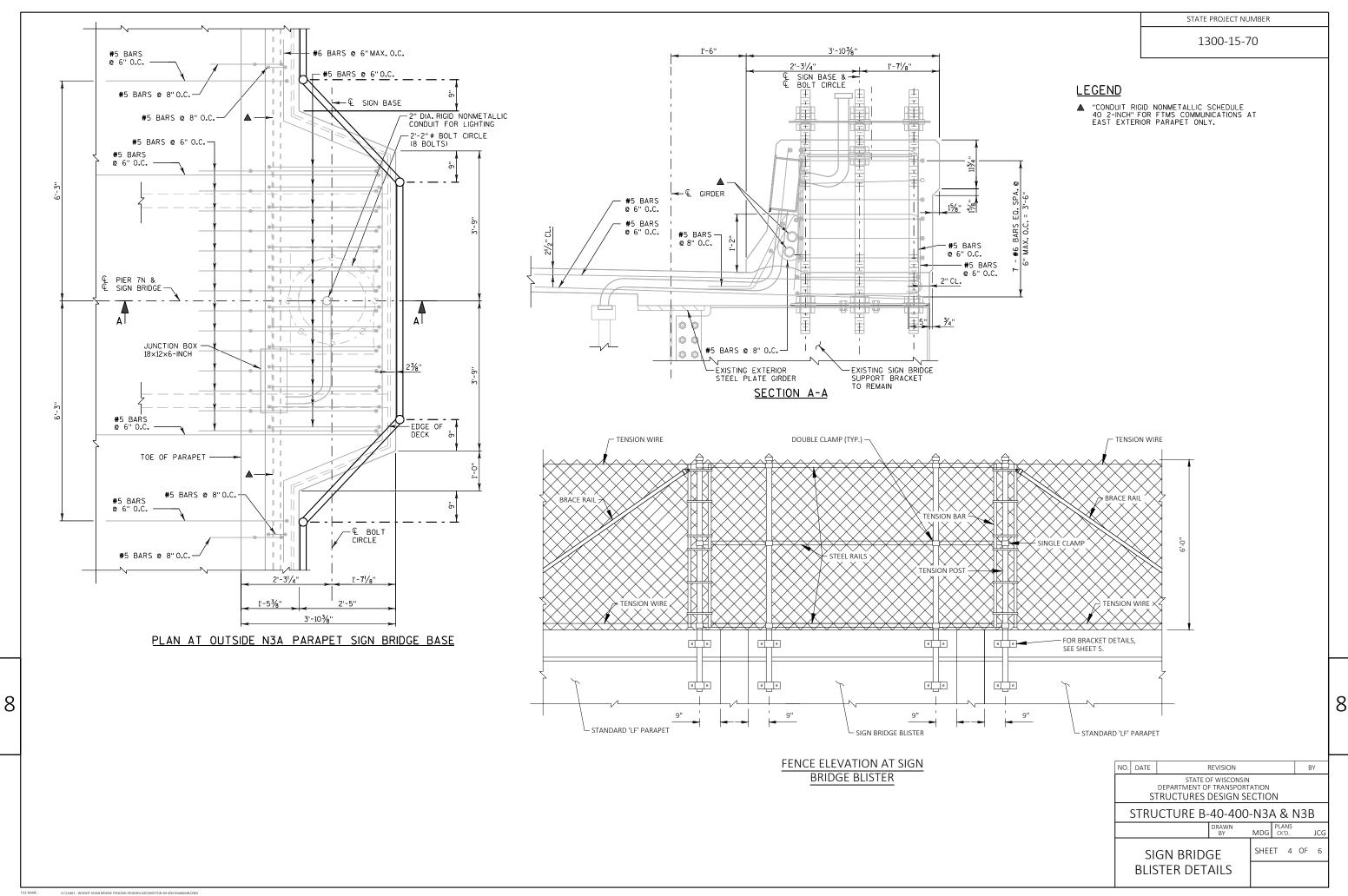
(2) - "CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH" FOR FTMS.

NO.	DATE		REVISION		BY					
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION									
	STRU	ICTURE B-	40-400	-N3A &	N3B					
			DRAWN BY	MDG PLANS CK'D.	JCG					
		PARAPFT	SHEET 3	OF 6						

8

FILE NAM

3461 - WISDOT HOAN BRIDGE FENCING DESIGN\CAD\SHEETS\B-40-400-N3A&N3B.DWC







POSTS ARE TO BE SET VERTICAL.

METALLIC-COATED FENCE SYSTEM:
ALL FENCE COMPONENTS SHALL BE GALVANIZED STEEL, EXCEPT THE FENCE FABRIC WHICH SHALL BE ALUMINUM-COATED STEEL.

FABRIC SHALL CONFORM TO ASTM A491. STEEL RAILS, POSTS AND POST SLEEVES SHALL CONFORM TO ASTM F1083, STANDARD WEIGHT PIPE (SCHEDULE 40). FITTINGS SHALL CONFORM TO ASTM F626. STEEL POSTS SHALL BE HIGH STRENGTH GRADE 50.

STEEL POSTS SHALL BE HIGH STRENGTH GRADE 50.

THE BID ITEM SHALL BE "FENCE CHAIN LINK 6- FT."

COMPLETE ANY REQUIRED WELDING OF COMPONENTS BEFORE GALVANIZING.

POST CLAMPS AND POST CLAMP SPACERS SHALL BE ASTM A709, GRADE 36.

TENSION WIRE SHALL BE 7 GAGE STEEL WIRE COATED IN ACCORDANCE WITH ASTM A824 AND A817 AS TYPE I (ALUMINUMIZED).

ALL POST SPACINGS ARE MEASURED HORIZONTALLY ALONG THE C/L OF

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE STAINLESS STEEL.

CONCRETE ADHESIVE ANCHORS $\frac{1}{8}$ "-INCH. EMBED 5" IN CONCRETE. ADHESIVE ANCHORS SHALL CONFORM TO SECTIONS 502.2.12 AND 502.3.14 OF THE STANDARD SPECIFICATIONS.

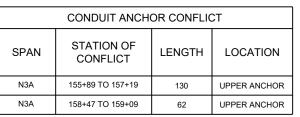
PAYMENT FOR ADHESIVE ANCHOR AND ANCHOR HARDWARE INCIDENTAL TO CHAIN LINK FENCE ITEM.

ATTACH FABRIC TO RAILS, AND TO POSTS WITHOUT TENSION BANDS, WITH TIE WIRES (ROUND, 9-GAGE) SPACED AT 1'-0".

PROVIDE TENSION POST AND BRACE RAILS TO LIMIT TENSION WIRE RUNS TO LESS THAN 500 FEET.

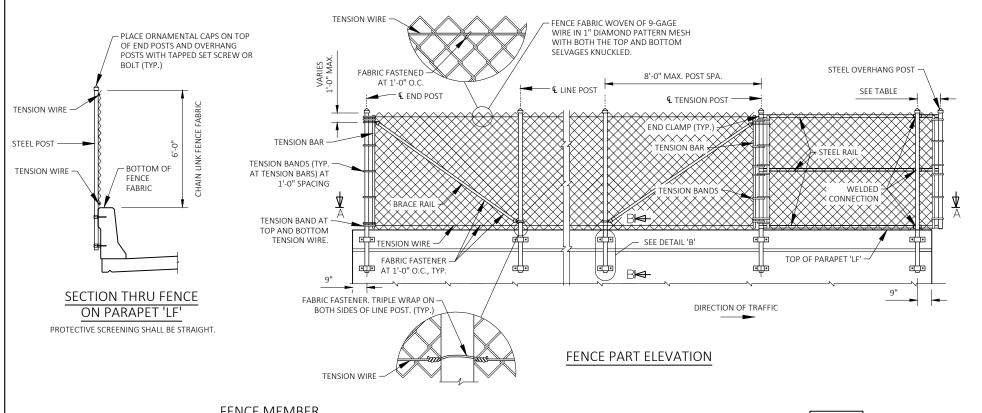
PARAPET HAS INTERNAL CONDUIT. INSPECT ALL ANCHOR HOLES BEFORE ADHESIVE INSTALLATION. NOTIFY ENGINEER IF CONDUIT IS ENCOUNTERED DURING ADHESIVE ANCHOR INSTALLATION. SEE TABLE BELOW FOR POTENTIAL CONDUIT CONFLICT WITH TYPICAL ADHESIVE ANCHOR LOCATION.

CONTRACTOR TO PROVIDE DUST CONTROL DURING EPOXY INSTALLATION. SUBMIT COLLECTION METHOD FOR APPROVAL. DUST COLLECTION INCIDENTAL TO FENCE ITEM.

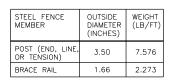


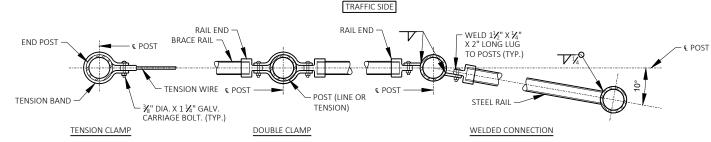
* REVISE DIMENSION TO 4.5" AT LOCATIONS NOTED TO AVOID POTENTIAL CONFLICT WITH CONDUIT INTERNAL TO PARAPET.

NO.	DATE		REVISION			В	βY
	ST	STATE C DEPARTMENT OF FRUCTURES		N			
	STRU	ICTURE B-	-N3 <i>i</i>	1 & 4	N3E	3	
			DRAWN BY	MDG	PLANS CK'D.		JCC
		FENCE		SHEE	ET 5	OF	6
		DETAILS					
l				I			



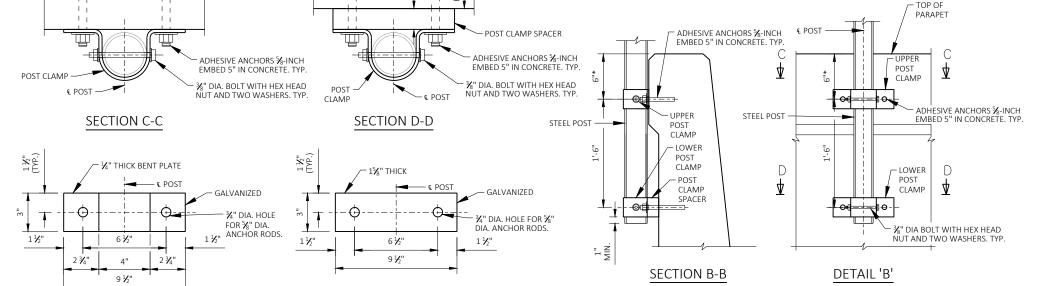
FENCE MEMBER SIZE & WEIGHT







NOTE: PLACE ALL BOLT HEADS ON THE TRAFFIC SIDE

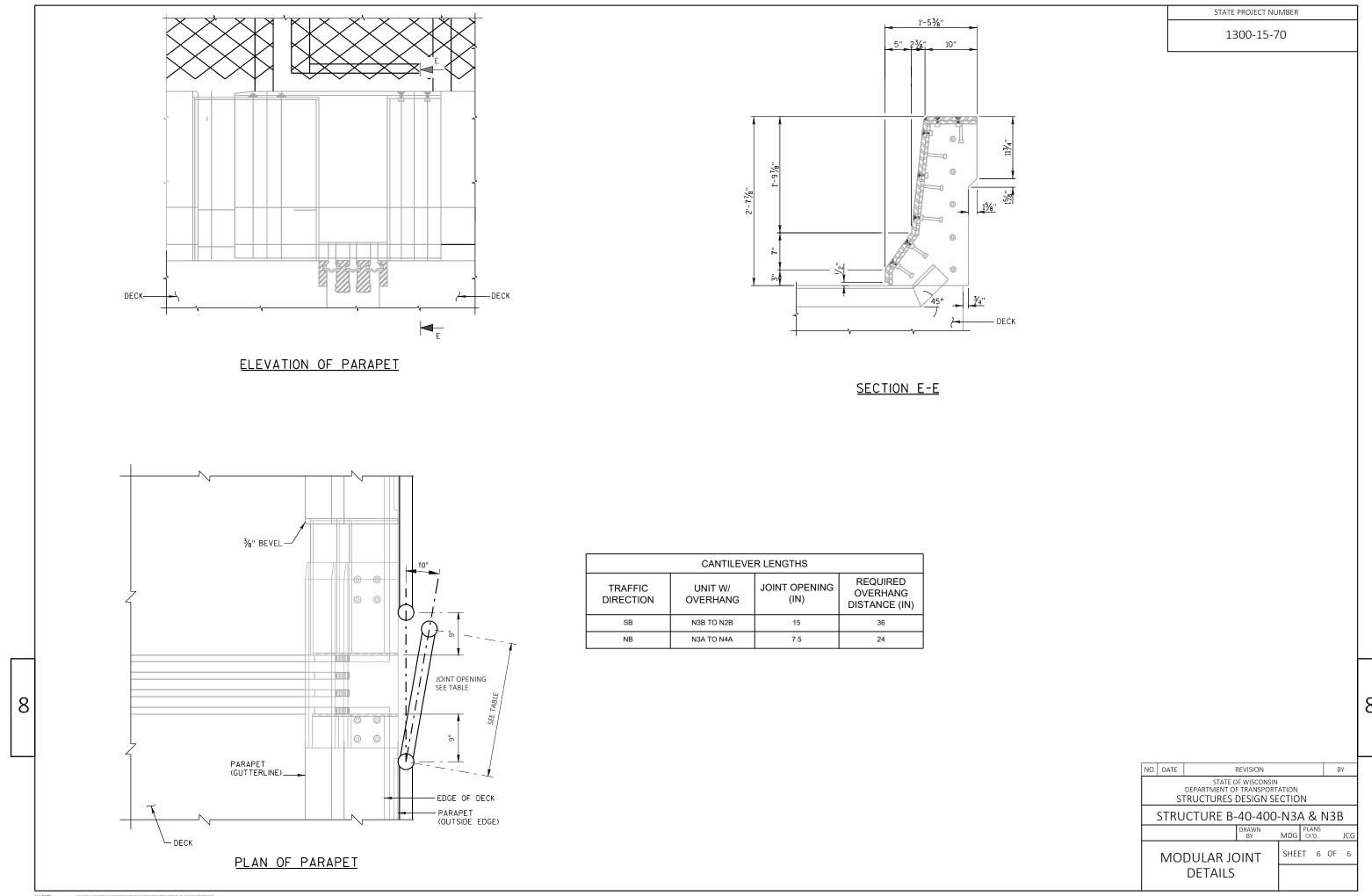


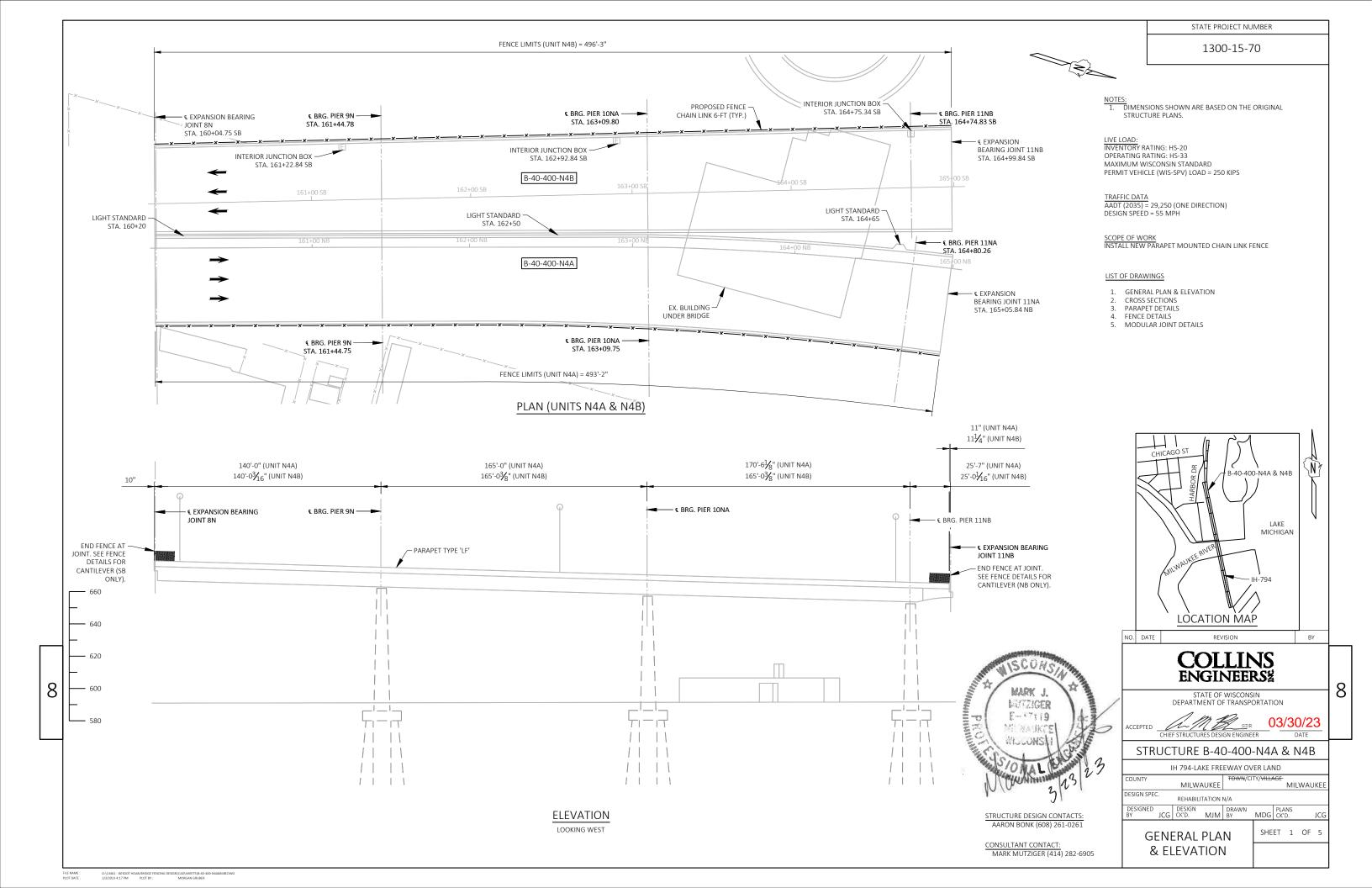
POST CLAMP SPACER DETAIL

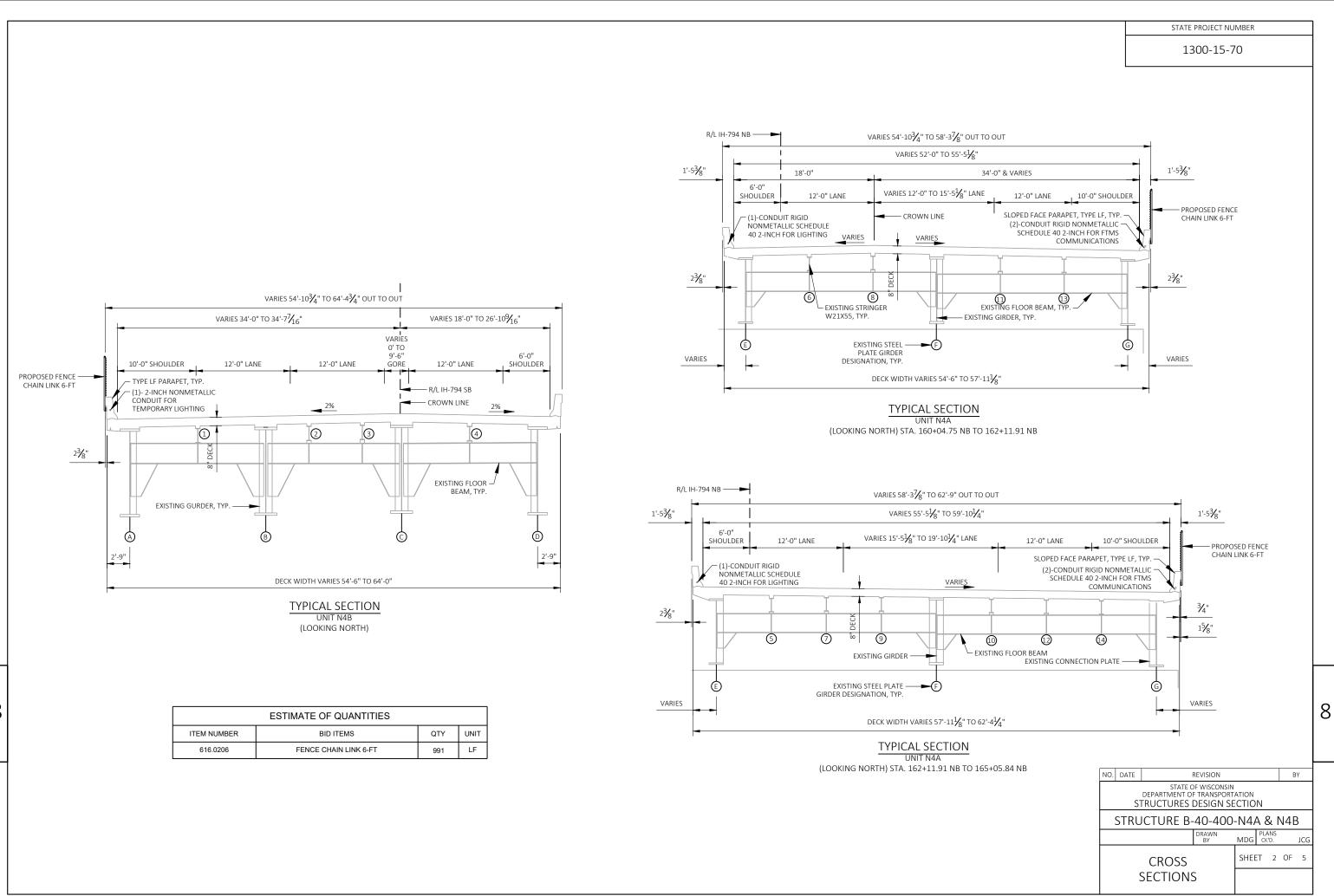
G:\13461 - WISDOT HOAN BRIDGE FENCING DESIGN\CAD\SHEETS\B-40-400-N3A&N3 3/23/2023 12-48 PM PLOT BY MORGAN GRUBER

POST CLAMP DETAIL

FILE NAME PLOT DATE

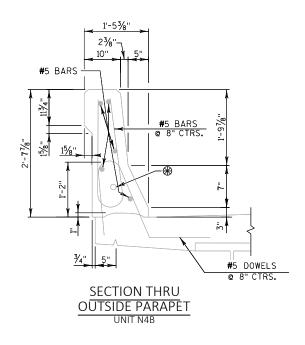


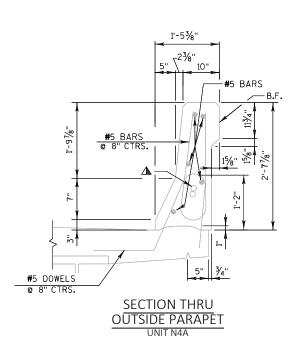




STATE PROJECT NUMBER

1300-15-70





LEGEND

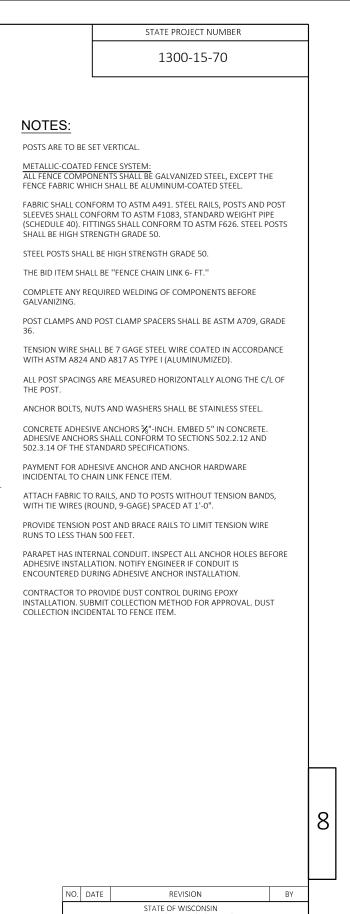
- (2) "CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH" (FTMS COMMUNICATION)
- (1) "CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH" FOR TEMPORARY LIGHTING.

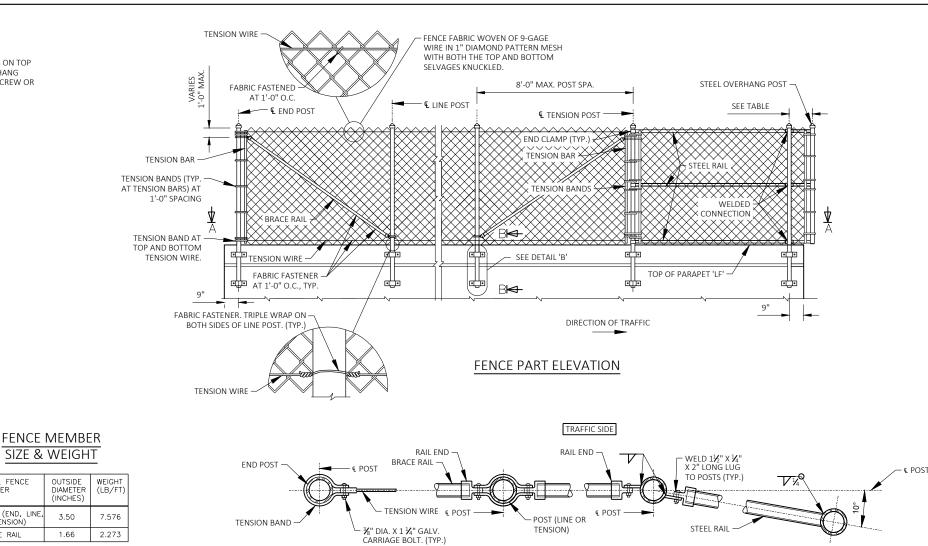
NO.	DATE		REVISION			Ŀ	iΥ
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION							
STRUCTURE B-40-400-N4A & N4B						3	
			DRAWN BY	MDG	PLANS CK'D.		JCG
PARAPET DETAILS		SHEE	ET 3	OF	5		

8

FILE NAME

3461 - WISDOT HOAN BRIDGE FENCING DESIGN\CAD\SHEETS\B-40-400-N4A&N4B.DWG

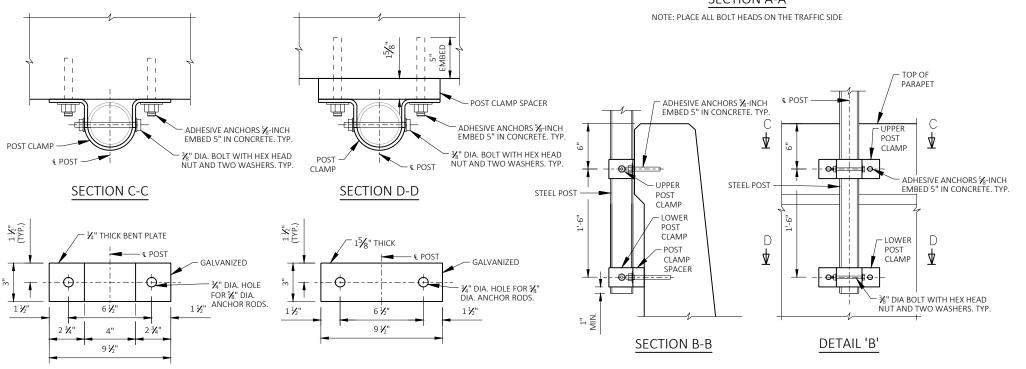




DOUBLE CLAMP



WELDED CONNECTION



POST CLAMP SPACER DETAIL

TENSION CLAMP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION STRUCTURE B-40-400-N4A & N4B

FENCE DETAILS SHEET 4 OF

POST CLAMP DETAIL

PLACE ORNAMENTAL CAPS ON TOP

OF END POSTS AND OVERHANG POSTS WITH TAPPED SET SCREW OR

BOTTOM OF

FABRIC

SECTION THRU FENCE

ON PARAPET 'LF'

PROTECTIVE SCREENING SHALL BE STRAIGHT

STEEL FENCE MEMBER

POST (END, LIN

BRACE RAIL

OUTSIDE

DIAMETER (INCHES)

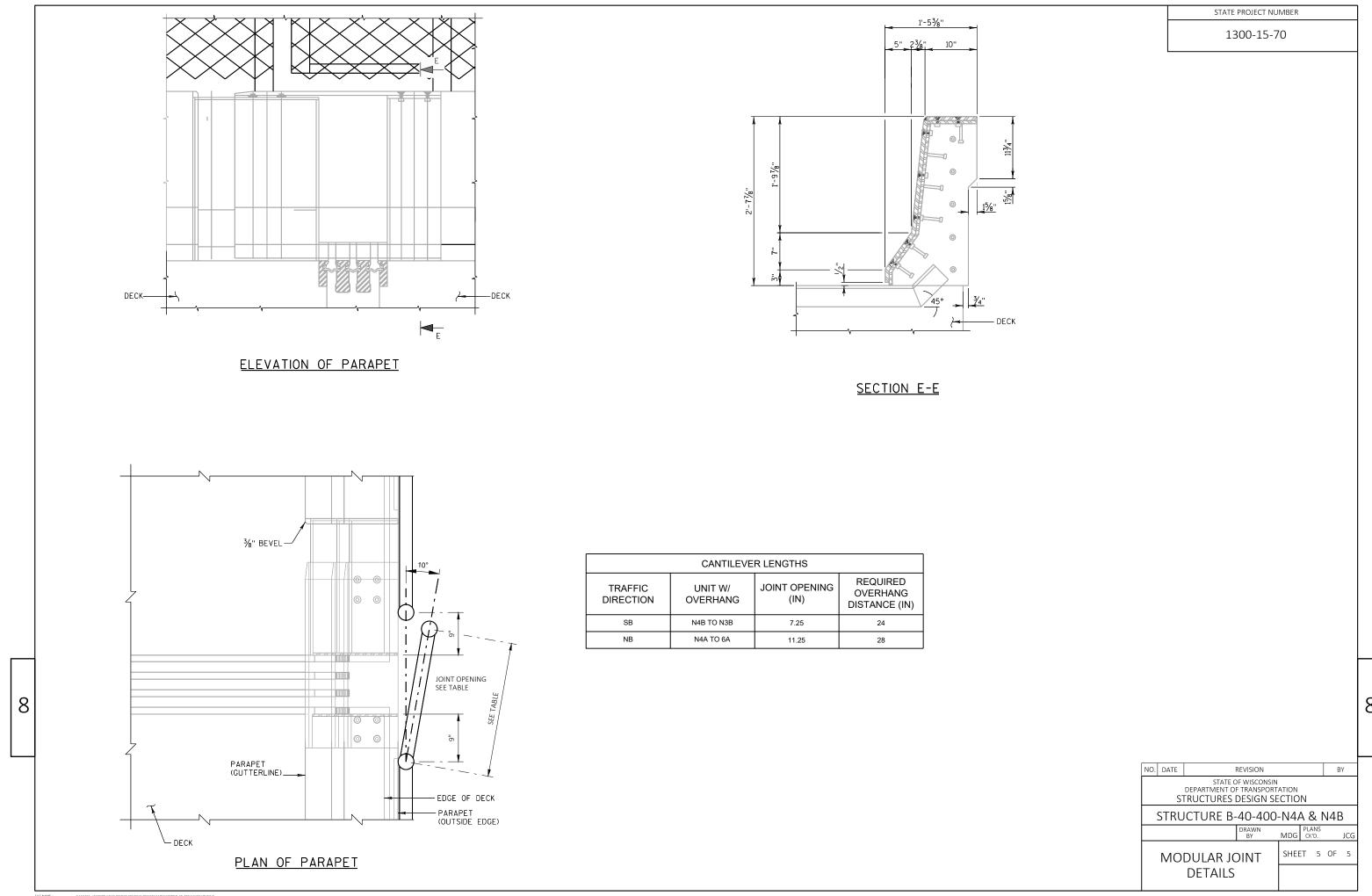
3.50

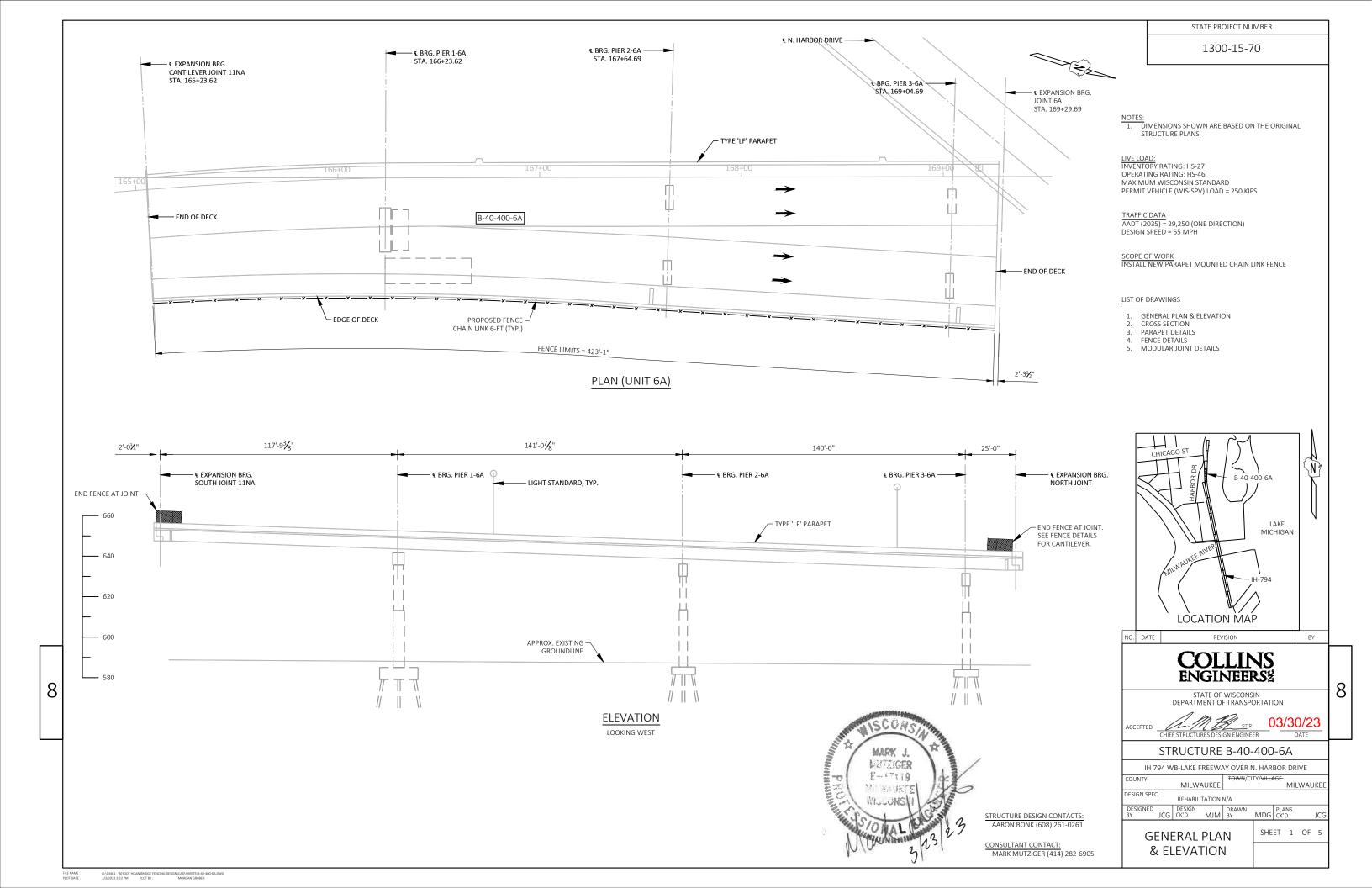
1.66

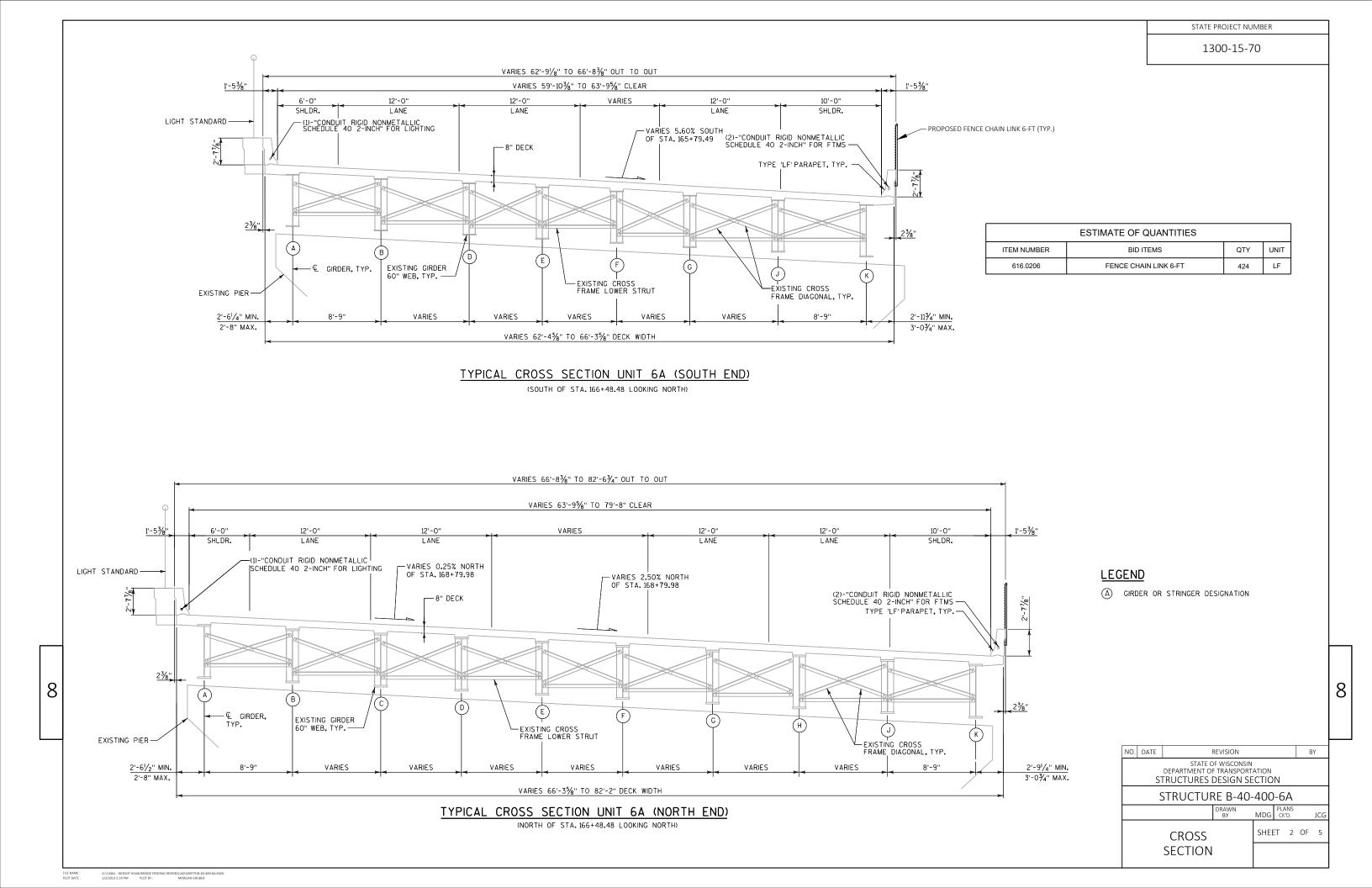
TENSION WIRE

STEEL POST

TENSION WIRE -

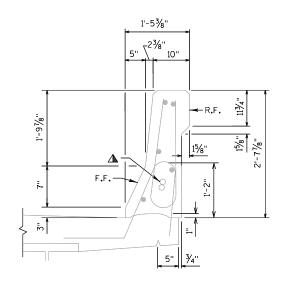






STATE PROJECT NUMBER

1300-15-70



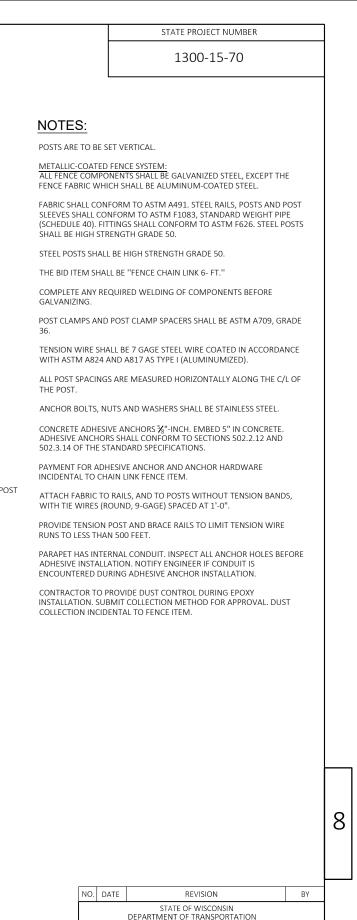
SECTION THRU 'LF' PARAPET

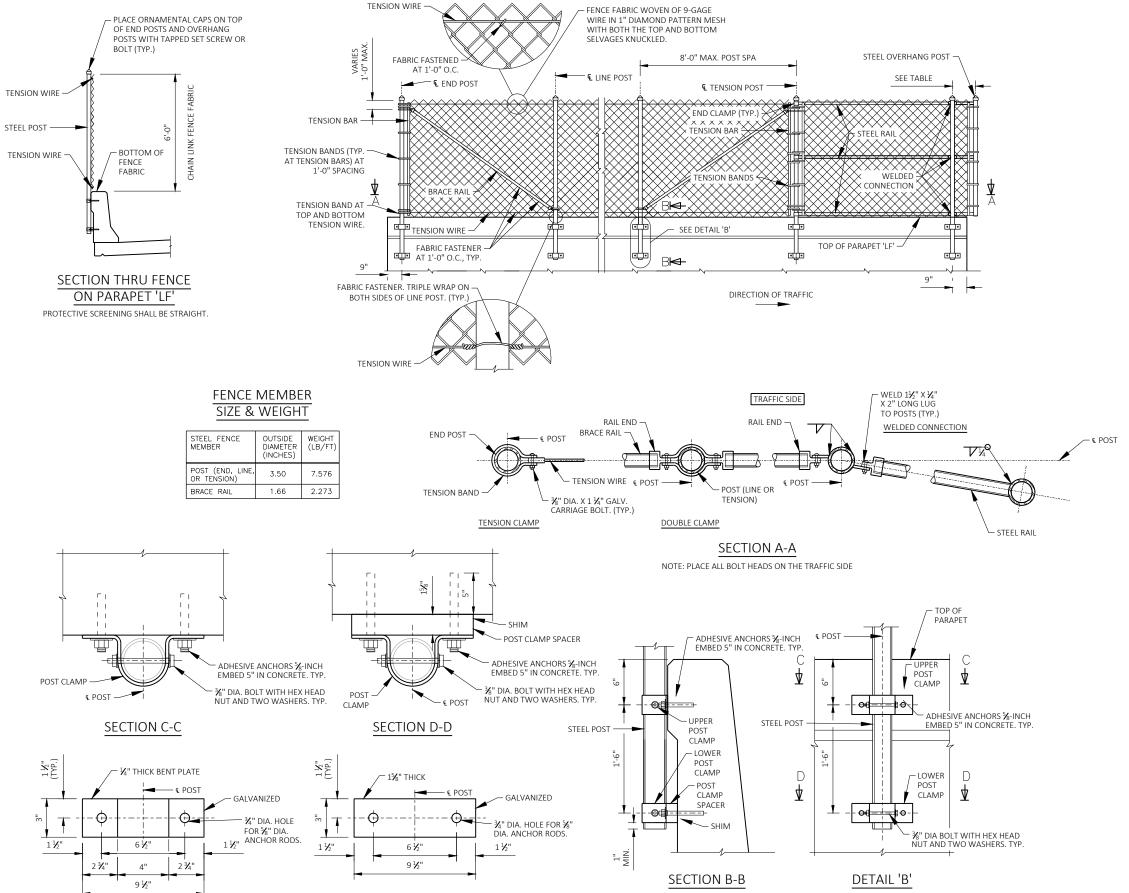
LEGEND

(2)-"CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH" (EAST PARAPET)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION STRUCTURE B-40-400-6A MDG PLANS CK'D. SHEET 3 OF 5 PARAPET

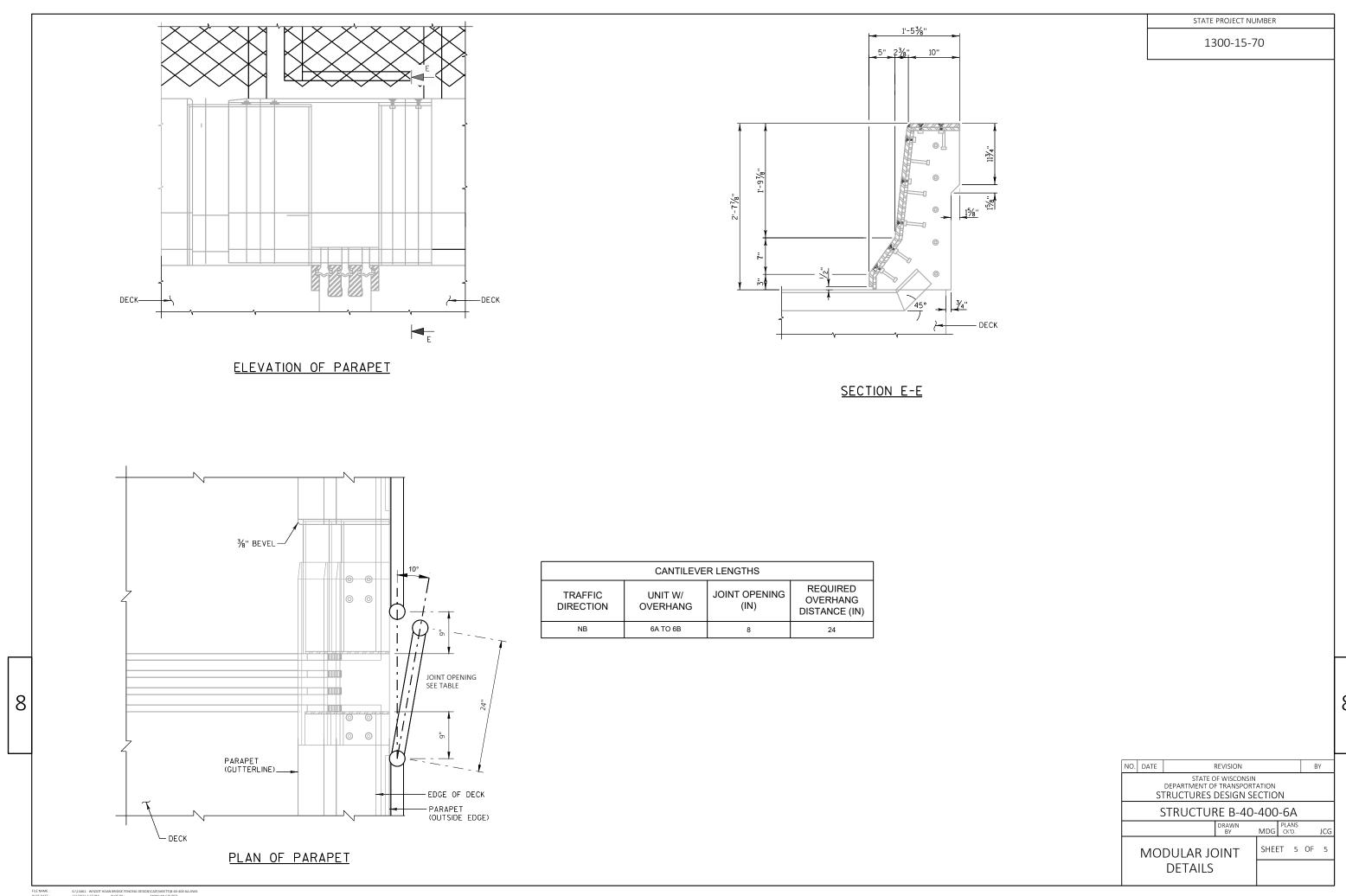
DETAILS

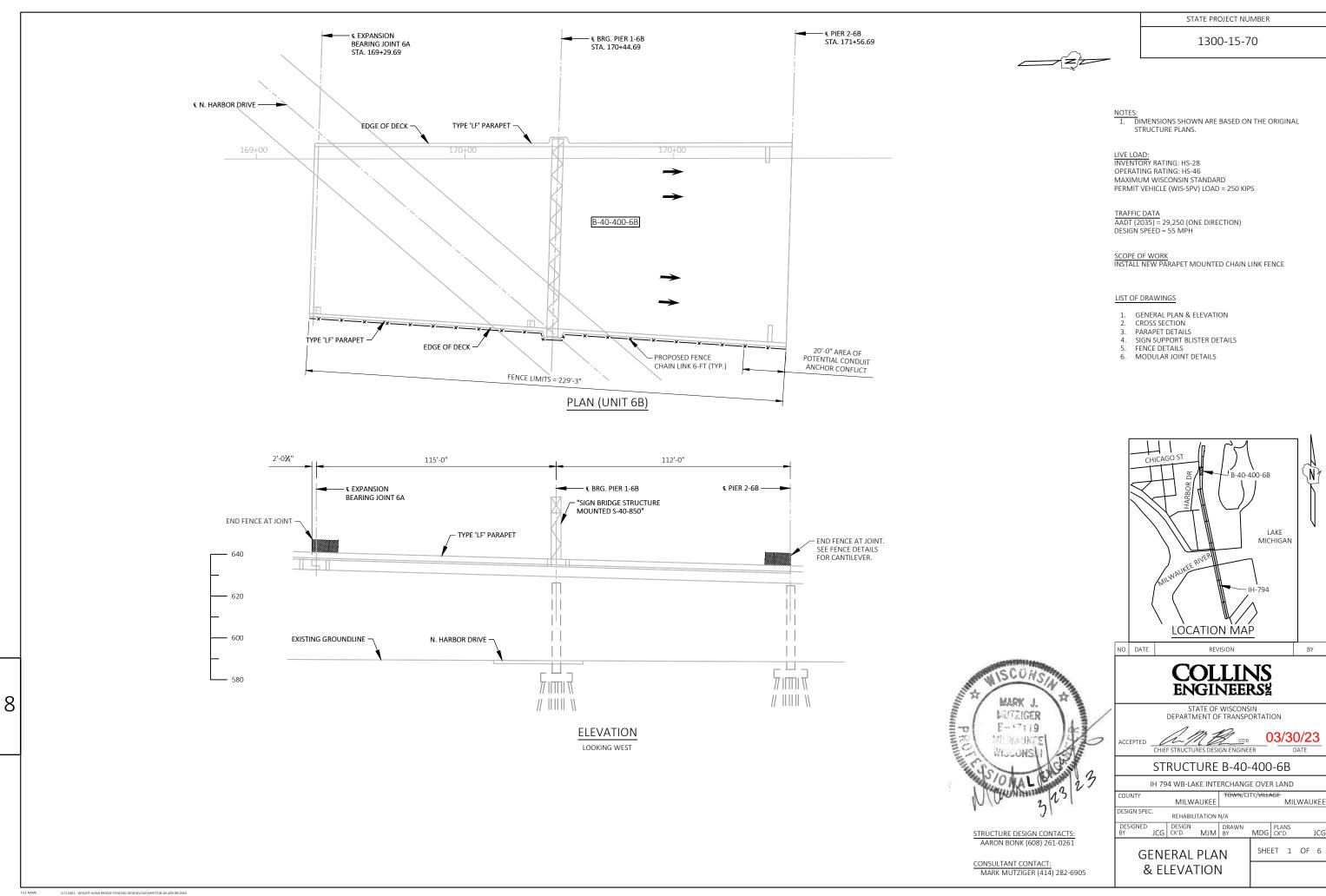




POST CLAMP SPACER DETAIL

POST CLAMP DETAIL



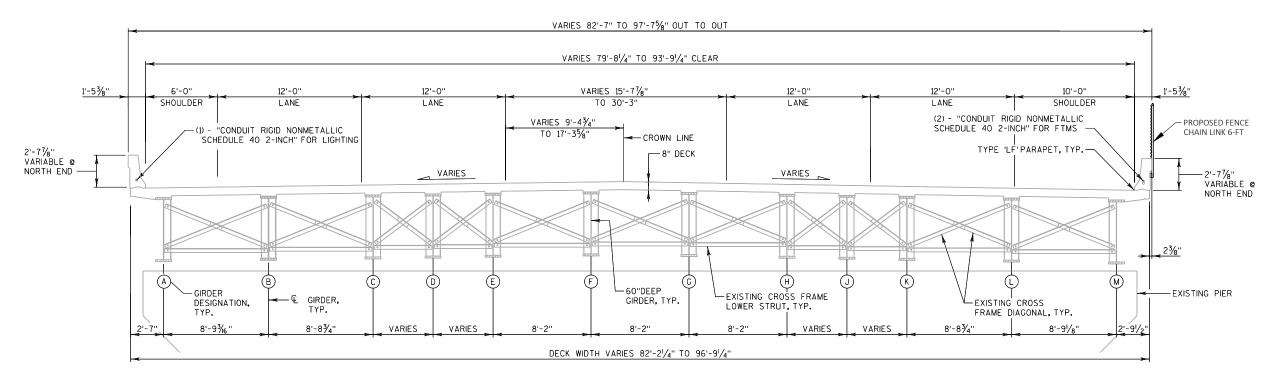


STATE PROJECT NUMBER

1300-15-70

8

SECTION



TYPICAL CROSS SECTION

UNIT 6B
(LOOKING NORTH)

ESTIMATE OF QUANTITIES					
ITEM NUMBER	BID ITEMS	QTY	UNIT		
616.0206	FENCE CHAIN LINK 6-FT	230	LF		

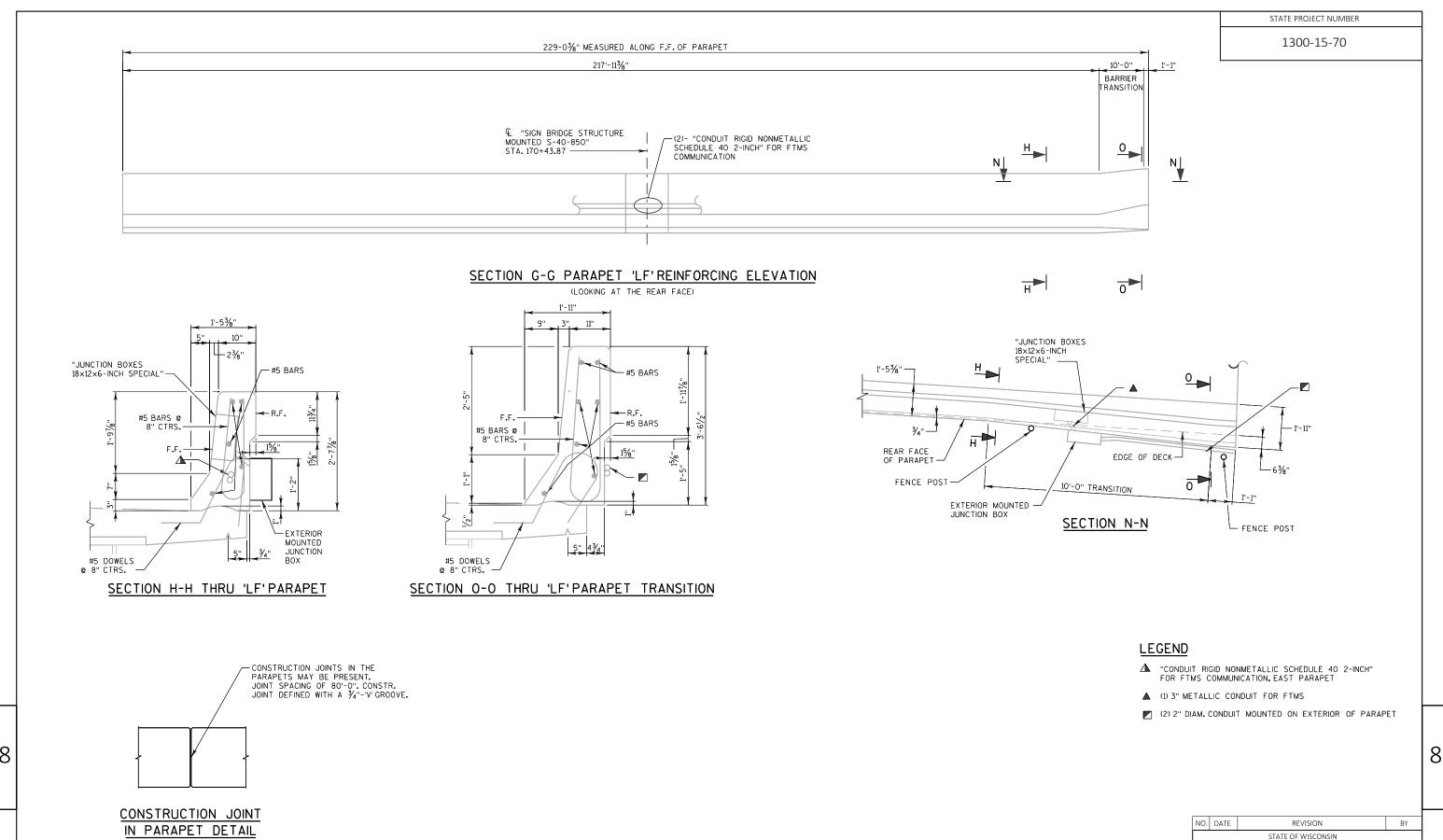
NO. DATE REVISION BY

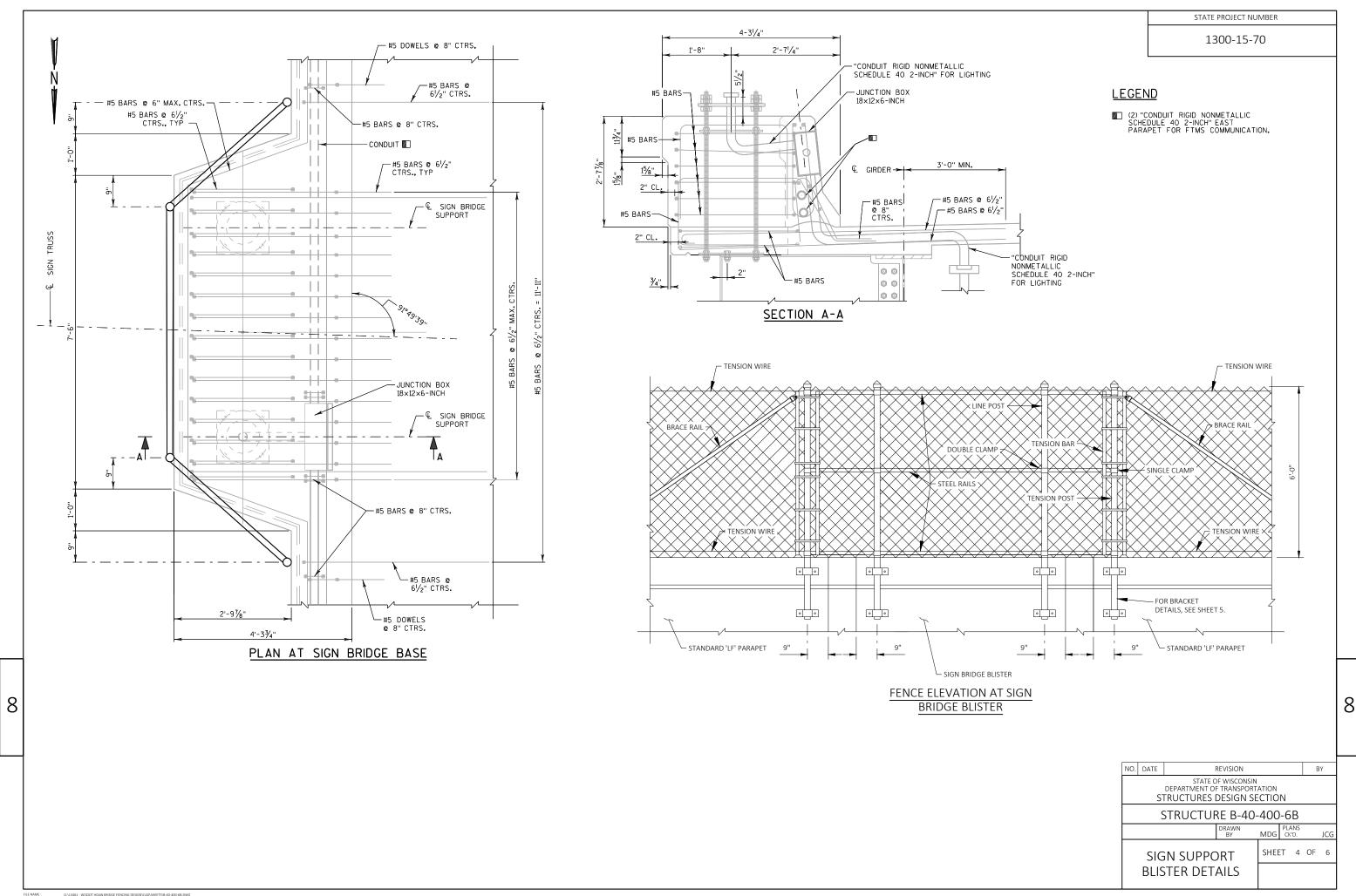
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

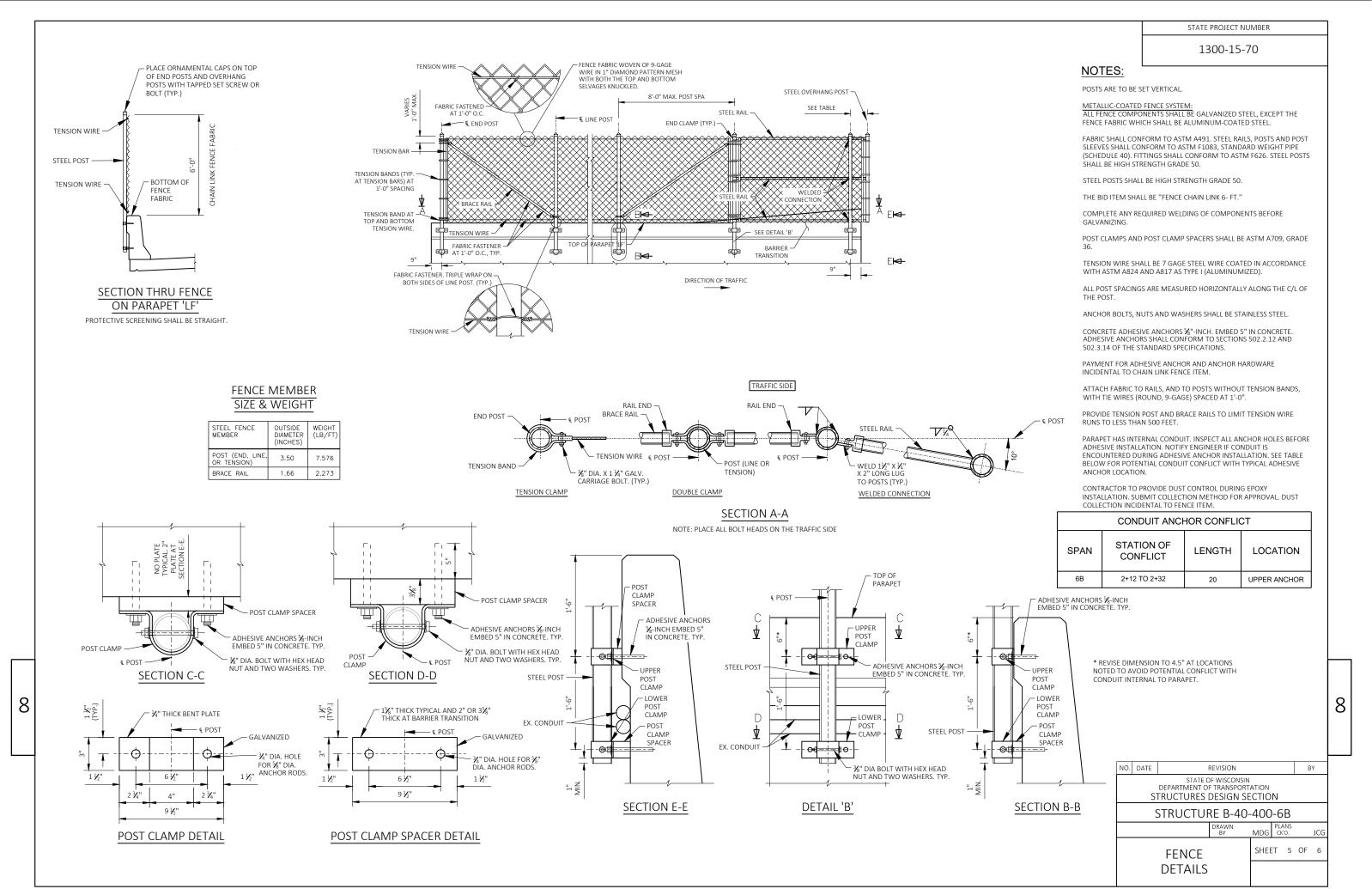
STRUCTURES B-40-400-6B

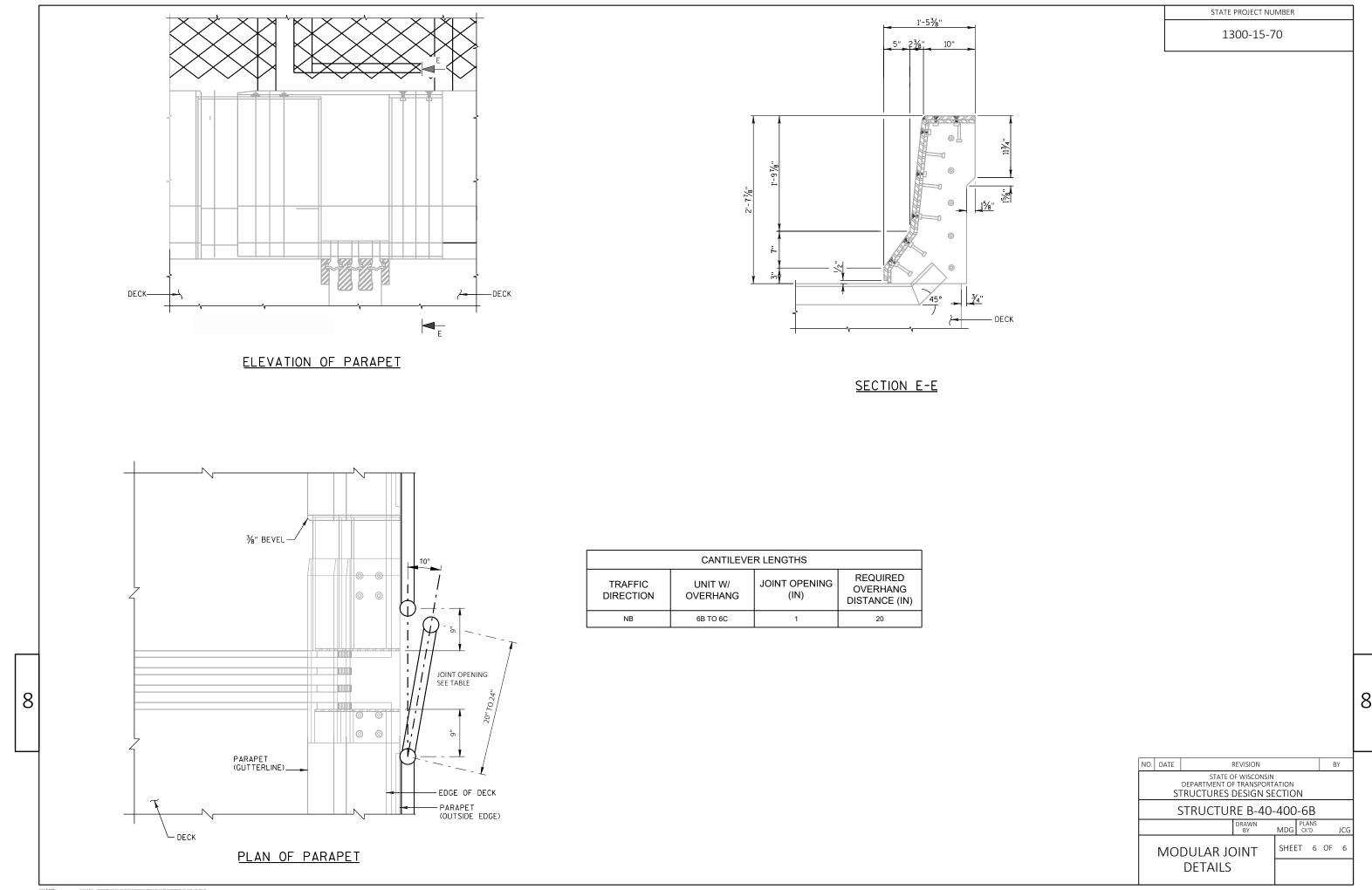
DRAWN MDG CXD. JCG

CROSS SHEET 2 OF 6









1300-15-70

1'-101/4"

- NOTES: $\overline{1}. \quad \overline{D} \text{IMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE}$ PLANS.
- ALL CONCRETE REMOVAL SHALL BE DEFINED BY A ⅓ INCH DEEP SAW CUT, UNLESS SPECIFIED OTHERWISE.
 UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS
- SPECIFIED OTHERWISE.

 4. ENGINEER TO VERIFY CONCRETE SURFACE REPAIR AREAS.
 CONCRETE SURFACE REPAIRS SHALL BE MADE ONLY AS
 DIRECTED BY THE ENGINEER. QUANTITIES SHOWN ARE

LIVE LOAD: INVENTORY RATING: HS-20 OPERATING RATING: HS-33 MAXIMUM WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) LOAD = 250 KIPS

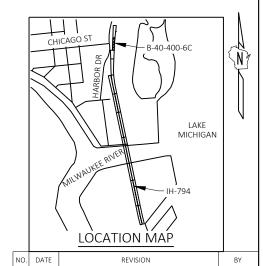
TRAFFIC DATA AADT (2035) = 29,250 (ONE DIRECTION) DESIGN SPEED = 55 MPH

MATERIAL PROPERTIES CONCRETE MASONRY - SURFACE REPAIR f'c = 4,000 P.S.I.

SCOPE OF WORK
INSTALL NEW PARAPET MOUNTED CHAIN LINK FENCE CONCRETE SURFACE REPAIR TO BACK FACE OF PARAPET

LIST OF DRAWINGS

- GENERAL PLAN & ELEVATION
- CROSS SECTION
- PARAPET DETAILS
- FENCE DETAILS MODULAR JOINT DETAILS



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



& ELEVATION

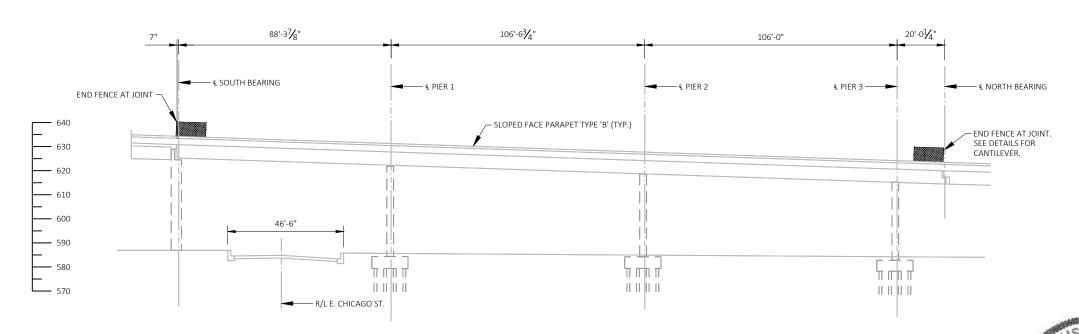
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STRUCTURE B-40-400-6C

RAMP IH 794 WB-LAKE FREEWAY OVER PARKING LOT							
COUNTY		TOWN/CI	TY/ VILL/	\GE			
	MILWAUKEE			MI	LWAL	JKEE	
DESIGN SPEC. REHABILITATION N/A							
DESIGNED BY JCG	DESIGN CK'D. MJM	DRAWN BY	MDG	PLANS CK'D.		JCG	
GEN	ERAL PLA	N	SHE	ET 1	OF	5	

E. CHICAGO ST. 420+00 — € SOUTH BEARING € PIER 1 — 421+00 F PIFR 2 -STA. 418+26.98 LN STA. 419+15.30 LN STA. 420+21.86 LN € PIER 3 — B-40-400-6C STA. 421+27.86 LN € NORTH BEARING STA. 174+67.35 LN LINK FENCE (TYP.) FENCE LIMITS = 320'-8"

PLAN (UNIT 6C)



ELEVATION LOOKING WEST

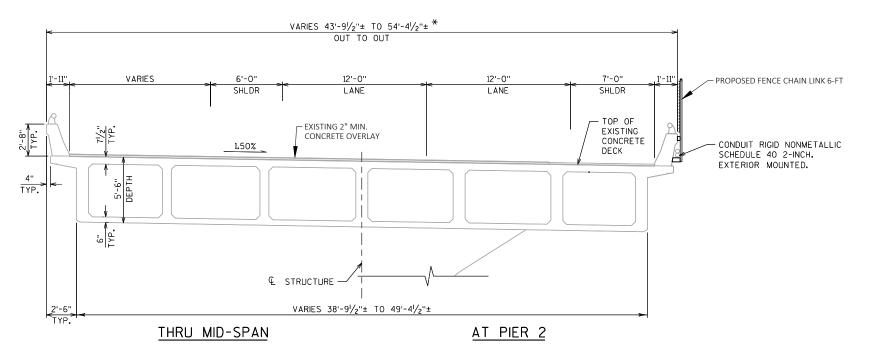
> STRUCTURE DESIGN CONTACTS: AARON BONK (608) 261-0261

MARK J.

MITZIGER E-17:19

MI 特旅運

CONSULTANT CONTACT: MARK MUTZIGER (414) 282-6905



CROSS SECTION

(STATION 419+90.29 LN TO 421+47.04 LN) (LOOKING NORTH)

ESTIMATE OF QUANTITIES					
ITEM NUMBER	BID ITEMS	QTY	UNIT		
616.0206	FENCE CHAIN LINK 6-FT	321	LF		
509.1500	CONCRETE SURFACE REPAIR	20	SF		

LEGEND

* DIMENSIONS MEASURED ALONG SOUTH END OF OVERLAY OR NORTH END OF DECK

NO. DATE REVISION

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

STRUCTURES DESIGN SECTION

STRUCTURE B-40-400-6C

DRAWN BY MDG CK'D.

CROSS SECTION SHEET 2 OF 5

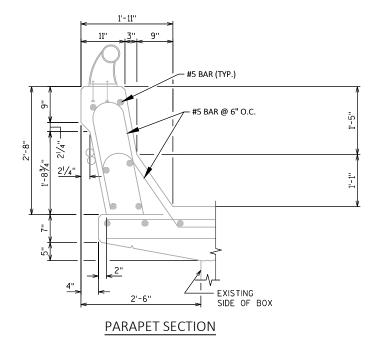
BY

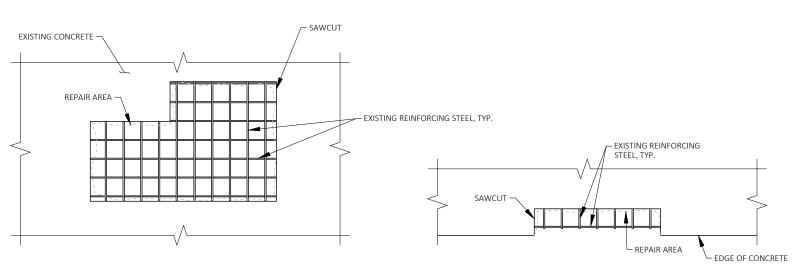
8

8

FILE NAME

13461 - WISDOT HOAN BRIDGE FENCING DESIGN\CAD\SHEETS\8-40-400-6C.DWI /2023 2-12 PM PLOT BY: MORGAN GRUBER

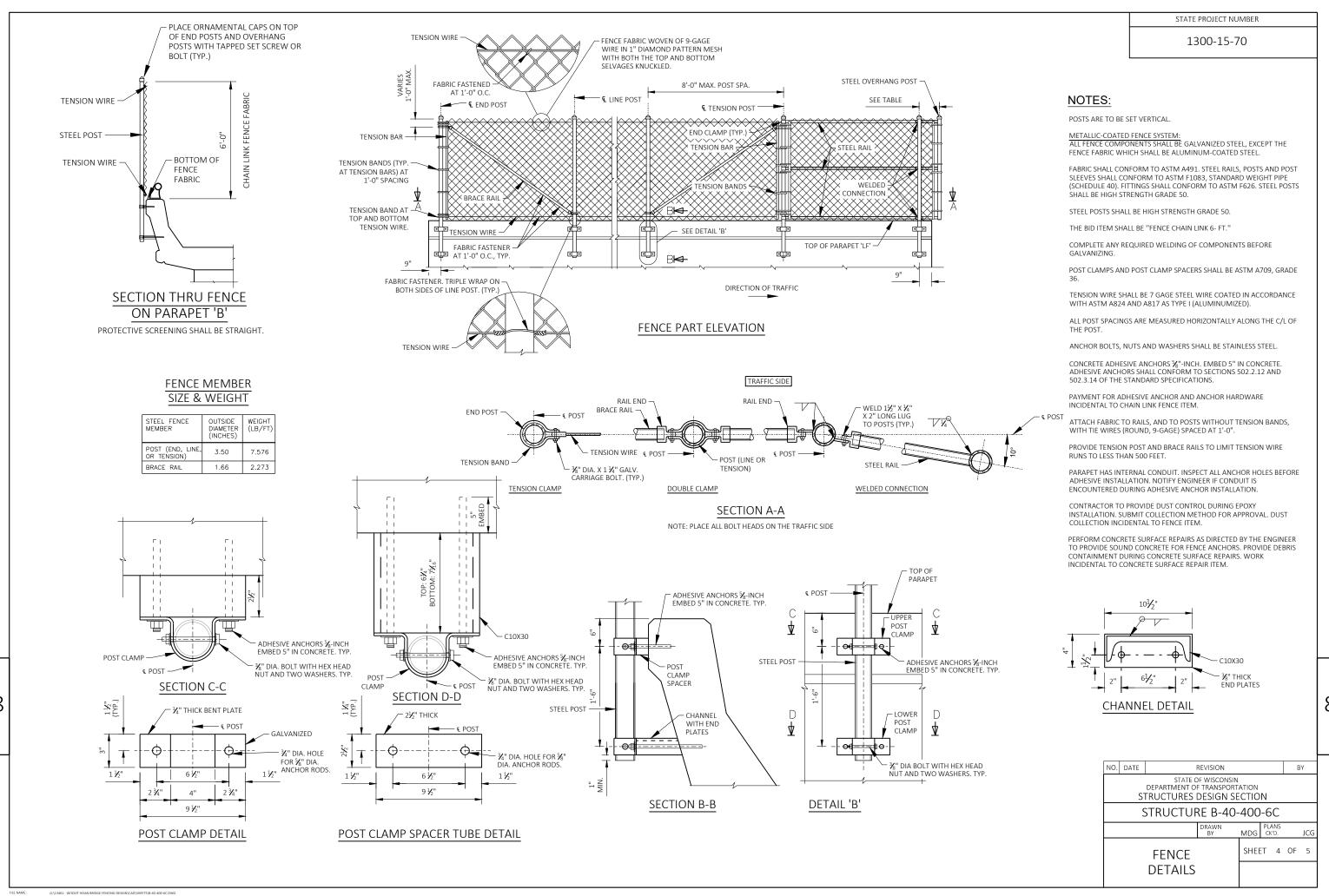


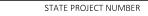


PART. PLAN TYPICAL REPAIR DETAIL

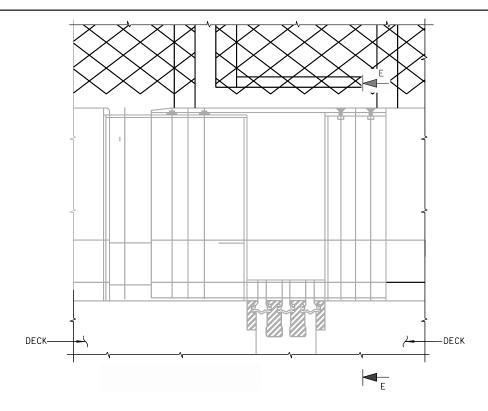
NO.	DATE	REVISION					ΒY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION							
STRUCTURE B-40-400-6C							
			DRAWN BY	MDG	PLANS CK'D.		JCG
PARAPET DETAILS		SHEE	ET 3	OF	5		

8

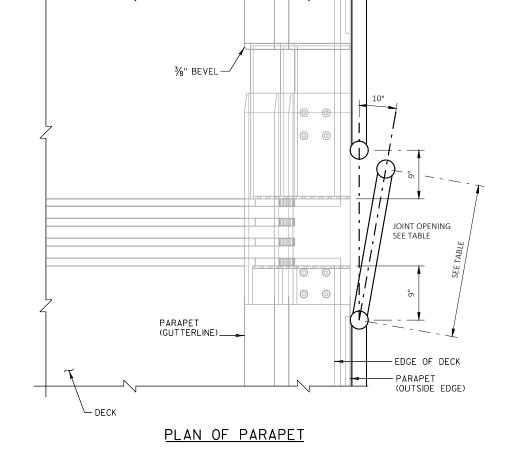




1300-15-70



ELEVATION OF PARAPET



CANTILEVER LENGTHS				
TRAFFIC DIRECTION	UNIT W/ OVERHANG	JOINT OPENING (IN)	REQUIRED OVERHANG DISTANCE (IN)	
NB	6C TO 6D	3.5	20	

NO. DATE REVISION BY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION

STRUCTURE B-40-400-6C

DRAWN MDG PLANS CKID. JCG

MODULAR JOINT SHEET 5 OF 5

G:\13461 - WISDOT HOAN BRIDGE FENCING DESIGN\CAD\SHEETS\8-40-400-6C.DWG 2/3/2023 2:16 PM PLOT BY: MORGAN GRUBER

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1300-15-70

- NOTES:

 1. DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
- 2. ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1 INCH DEEP
- 2. ALL CONCRETE REMOVAL SHALL BE DEFINED BY A TINCH DEEP SAW CUT, UNLESS SPECIFIED OTHERWISE.

 3. UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.
- 4. ENGINEER TO VERIFY CONCRETE SURFACE REPAIR AREAS.
 CONCRETE SURFACE REPAIRS SHALL BE MADE ONLY AS
 DIRECTED BY THE ENGINEER. QUANTITIES SHOWN ARE

LIVE LOAD: INVENTORY RATING: HS-20 OPERATING RATING: HS-34
MAXIMUM WISCONSIN STANDARD
PERMIT VEHICLE (WIS-SPV) LOAD = 250 KIPS

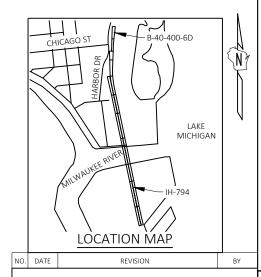
TRAFFIC DATA
AADT (2035) = 29,250 (ONE DIRECTION)
DESIGN SPEED = 55 MPH

MATERIAL PROPERTIES CONCRETE MASONRY - SURFACE REPAIR f'c = 4,000 P.S.I.

INSTALL NEW PARAPET MOUNTED CHAIN LINK FENCE CONCRETE SURFACE REPAIR TO BACK FACE OF PARAPET

LIST OF DRAWINGS

- GENERAL PLAN & ELEVATION
 CROSS SECTION
- PARAPET DETAILS
- FENCE DETAILS
- SIGN BRIDGE BLISTER DETAIL



COLLINS ENGINEERSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



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STRUCTURE B-40-400-6D



GENERAL PLAN & ELEVATION

€ PIER 3 — STA. 424+46.74 LN

SEE PARAPET

TRANSITION DETAILS

END OF DECK +

STA. 424+67.60 LN

- SIGN STRUCTURE S-40-853

PROPOSED FENCE -

CHAIN LINK 6-FT (TYP.)

424+00

PLAN (UNIT 6D)

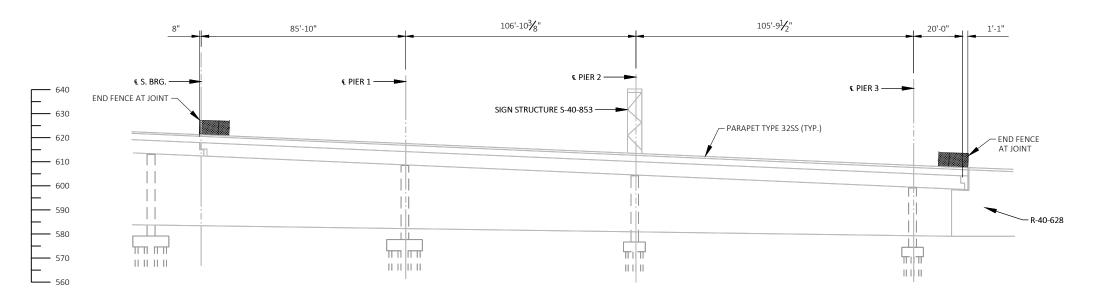
STA. 423+40.27 LN

BLISTER (TYP.)

FENCE LIMITS = 319'-6"

423+00

B-40-400-6D



422+00

€ PIER 1 -STA. 422+34.07 LN

END OF DECK

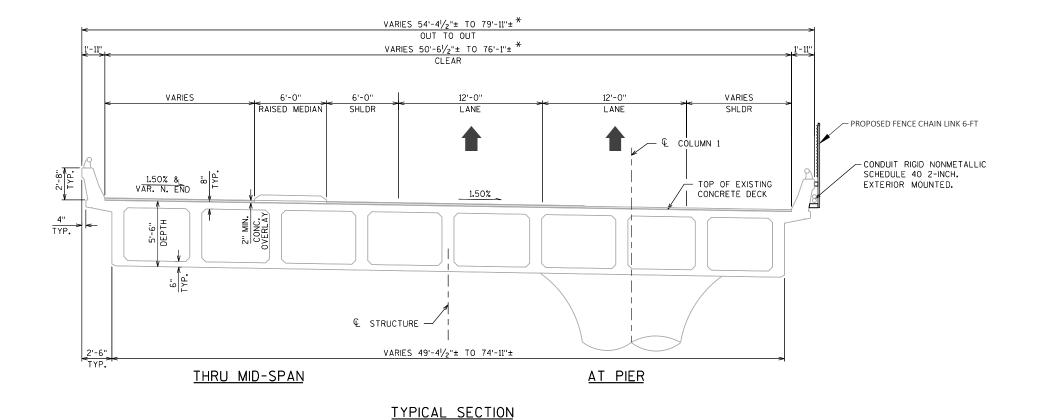
STA. 421+47.29 LN

ELEVATION LOOKING WEST

MARK J. MITTIGER E-17119

> STRUCTURE DESIGN CONTACTS: AARON BONK (608) 261-0261

CONSULTANT CONTACT: MARK MUTZIGER (414) 282-6905



(LOOKING NORTH)

ESTIMATE OF QUANTITIES					
ITEM NUMBER	BID ITEMS	QTY	UNIT		
616.0206	FENCE CHAIN LINK 6-FT	320	LF		
509.1500	CONCRETE SURFACE REPAIR	20	SF		

LEGEND

* DIMENSIONS MEASURED NORMAL TO THE WEST DECK EDGE

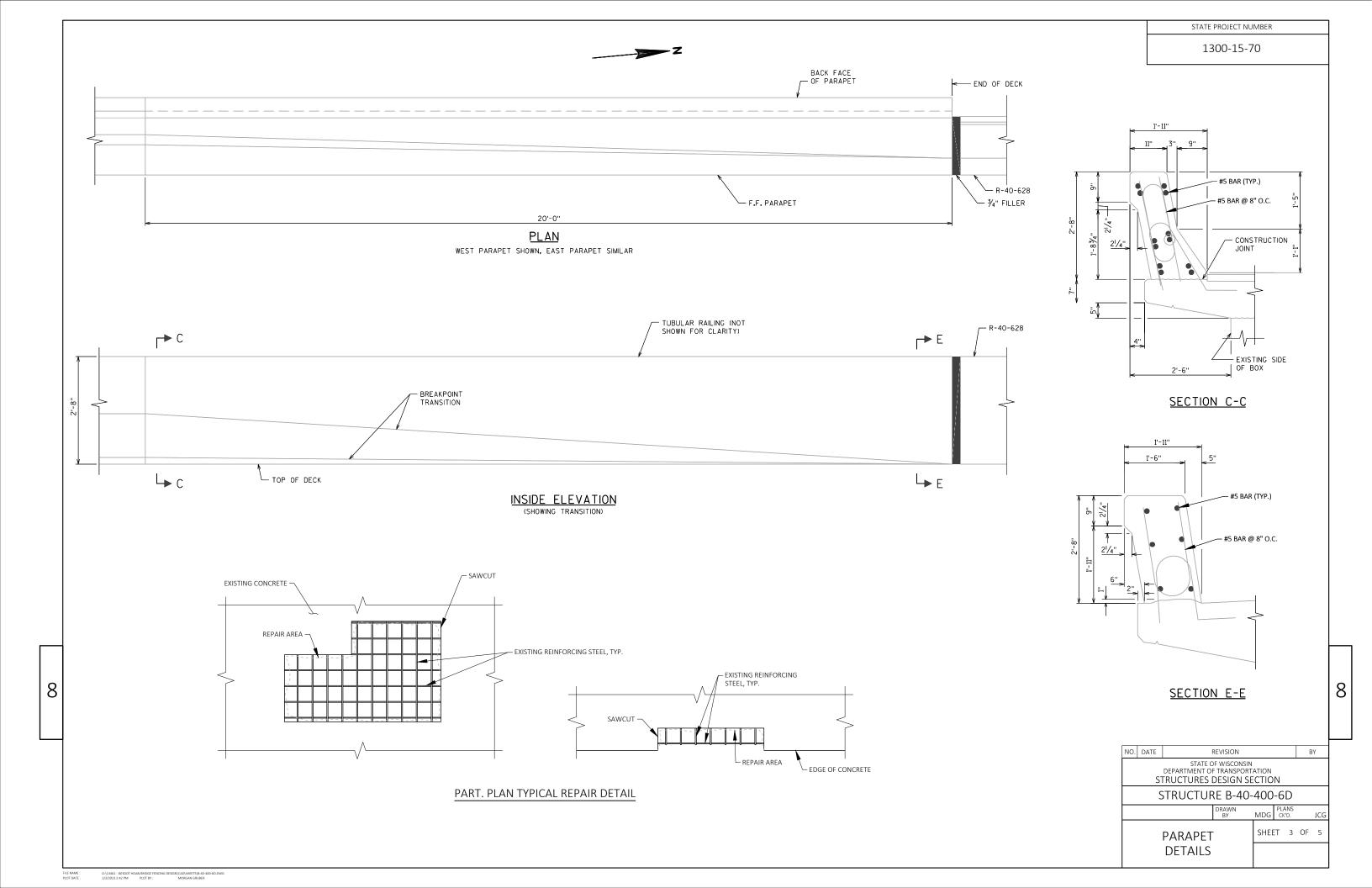
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	S	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION STRUCTURE B-40-400-6D DRAWN BY MDG CK'D. OUTSTAND DRAWN CK'D. OUTSTAND OUTST					
STRUCTURE B-40-400-6D							
				MDG			JCG
CROSS			SHEE	T 2	OF	5	
	SECTION						

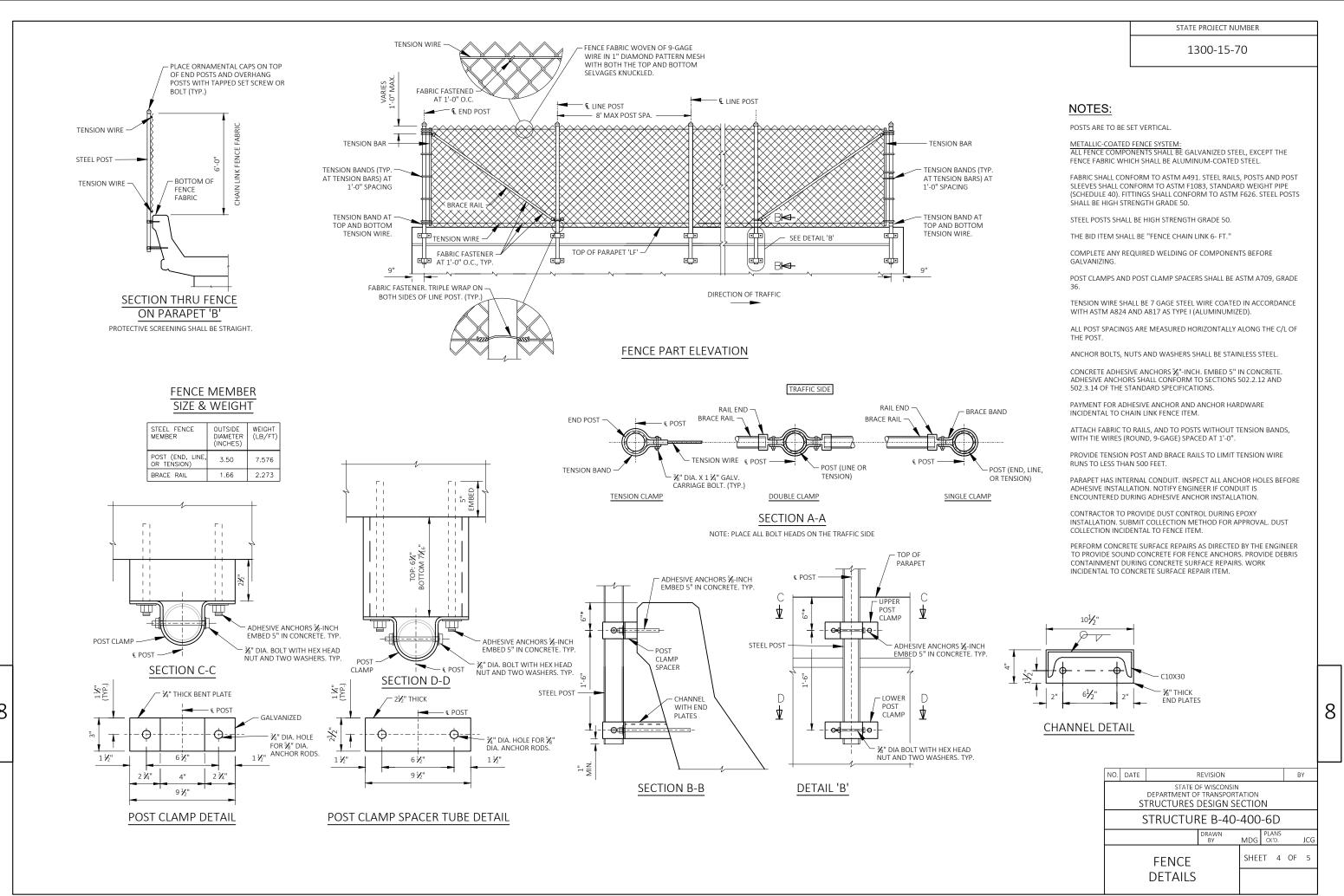
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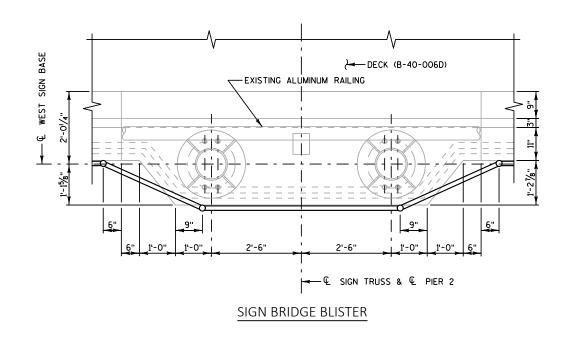
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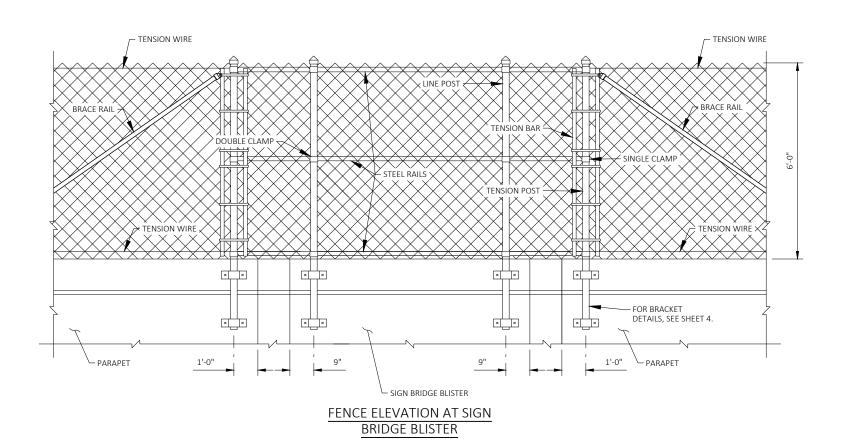
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NO. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-400-6D

DRAWN MDG PLANS CK'D. JCG

SIGN BRIDGE
BLISTER DETAILS

SHEET 5 OF 5



Wisconsin Department of Transportation

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