FEDERAL PROJECT JULY 2019 STATE PROJECT STATE OF WISCONSIN CONTRACT ORDER OF SHEETS PROJECT 5200-03-62 Section No. **DEPARTMENT OF TRANSPORTATION** Section No. Typical Sections and Details Section No. Estimate of Quantities Section No. Miscellaneous Quantities STATE HIGHWAY REHABILITATION-MAINTENANCE PROJECT Section No. Standard Detail Drawings C LA CROSSE, CAMERON AVE & CASS ST MISSISSIPPI RVR B-32-202 & B-32-300 **USH 14** TOTAL SHEETS = LA CROSSE COUNTY STATE PROJECT NUMBER 5200-03-62 R8W R7W **BEGIN CONSTRUCTION** STATION 38+09.25 B CITY OF B-32-300 (Westbound) LA CROSSE MISSISSIPPI RIVER **END CONSTRUCTION** STATION 63+42.92 B B-32-300 (Westbound) DESIGN DESIGNATION AADT 2014 = 16,527 A.A.D.T. **BEGIN PROJECT** D.H.V. STATION 43+20.07 EB D.D. B-32-202 (Eastbound) DESIGN SPEED = 35 MPH X = 1,635,063.42 Y = 662,326.57 T16N T15N **END PROJECT** CONVENTIONAL SYMBOLS STATION 68+93.07 EB B-32-202 (Eastbound) GRADE LINE B-32-300 CORPORATE LIMITS ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE (To be noted as such) B-32-202 LIMITED HIGHWAY EASEMENT SPECIAL DITCH STATE OF WISCONSIN EXISTING RIGHT OF WAY GRADE ELEVATION PROPOSED OR NEW R/W LINE DEPARTMENT OF TRANSPORTATION SLOPE INTERCEPT CULVERT (Profile View) PREPARED BY UTILITIES SW REGION REFERENCE LINE Surveyor ELECTRIC Designer EXISTING CULVERT FIBER OPTIC Project Manage PROPOSED CULVERT SANITARY SEWER REINY YAHNKE COMBUSTIBLE FLUIDS STORM SEWER 1000 FEET TELEPHONE MARSH AREA HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY DATE: 3/25/2019 UTILITY PEDESTAL COORDINATES, LA CROSSE COUNTY, NAD83 (1991), IN U.S. SURVEY FEET TOTAL NET LENGTH OF CENTERLINE = 0.000 MI ₫ VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES.

WOODED OR SHRUB AREA

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TELEPHONE POLE

GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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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 HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY HIS OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS

PURSUANT TO CHAPTER 59 OF THE WISCONSIN STATUTES, THE CONTRACTOR SHALL CAREFULLY MAKE A SEARCH FOR EVIDENCE OF A LANDMARK IN ALL AREAS WHERE SUCH A LANDMARK MAY **EXIST**

WORK WITH THE UTMOST CARE AND PROTECT ALL SURVEY MARKERS. REMOVAL OF ANY SURVEY MARKERS IS TO BE WITH THE APPROVAL OF THE ENGINEER

UTILITY CONTACTS

CENTURY LINK, COMMUNICATION LINE

THOMAS MURRAY 333 N FRONT STREET LA CROSSE, WI 54601 PHONE: 608-796-7869 MOBILE: 608-780-0895

CITY OF LA CROSSE, WATER

MARK GRAFF 800 EAST AVE N LA CROSSE, WI 54601 PHONE: 608-789-7384 MOBILE: 608-797-2335

XCEL ENERGY, GAS/PETROLEUM JAYMIE HOLTE 3215 COMMERCE STREET LA CROSSE, WI 54603 PHONE: 608-789-3698 MOBILE: 608-780-9881

CITY OF LA CROSSE, SEWER

STEVE ASP

905 JOSEPH HOUSKA PARK DRIVE

LA CROSSE, WI 54601 PHONE: 608-789-7322 MOBILE: 608-780-3554

XCEL ENERGY, ELECTRICITY-

TRANSMISSION BRUCE ZEMKE

414 NICOLLET MALL, 5TH FLOOR MINNEAPOLIS, MN 55401

PHONE: 612-330-7815 MOBILE: 651-214-2620

DESIGN CONTACTS

TODD WALDO PROJECT MANAGER WISDOT SW REGION 3550 MORMON COULEE ROAD LA CROSSE, WI 54601 PHONE: 608-785-9462 EMAIL: Todd.Waldo@dot.wi.gov

VALERIE GUIDER PROJECT DESIGNER WISDOT SW REGION 3550 MORMON COULEE ROAD LA CROSSE, WI 54601 PHONE:608-535-7812 EMAIL: Valerie.Guider@dot.wi.go

STANDARD ABBREVIATIONS

A.A.D.T. ANNUAL AVERAGE DAILY TRAFFIC CENTRAL ANGLE OR DELTA Δ D DEGREE OF CURVE D.H.V. DESIGN HOURLY VOLUME DIRECTIONAL DISTRIBUTION **EQUIVALENT SINGLE AXLE LOADS HUNDRED WEIGHT** LENGTH OF CURVE LEFT MGAL 1000 GALLONS

PC POINT OF CURVATURE POINT OF INTERSECTION PT POINT OF TANGENCY RADIUS OR RANGE REQ'D REQUIRED

S.D.D. STANDARD DETAIL DRAWING(S) **TANGENT**

TYP TYPICAL VAR VARIABLE

ENVIRONMENTAL CONTACT

JAY SCHIEFELBEIN TRANSPORTATION LIAISON BUREAU OF ENVIRONMENTAL ANALYSIS & SUSTAINABILITY 2984 SHAWANO AVE. GREEN BAY, WI 54313 PHONE: 920-360-3784 EMAIL: JEREMIAH.SCHIEFELBEIN@WI.GOV



PROJECT NO: 5200-03-62

HWY: USH 14

COUNTY: LA CROSSE

GENERAL NOTES

PLOT BY

PLOT NAME

SHEET:

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PLOT SCALE : N/A

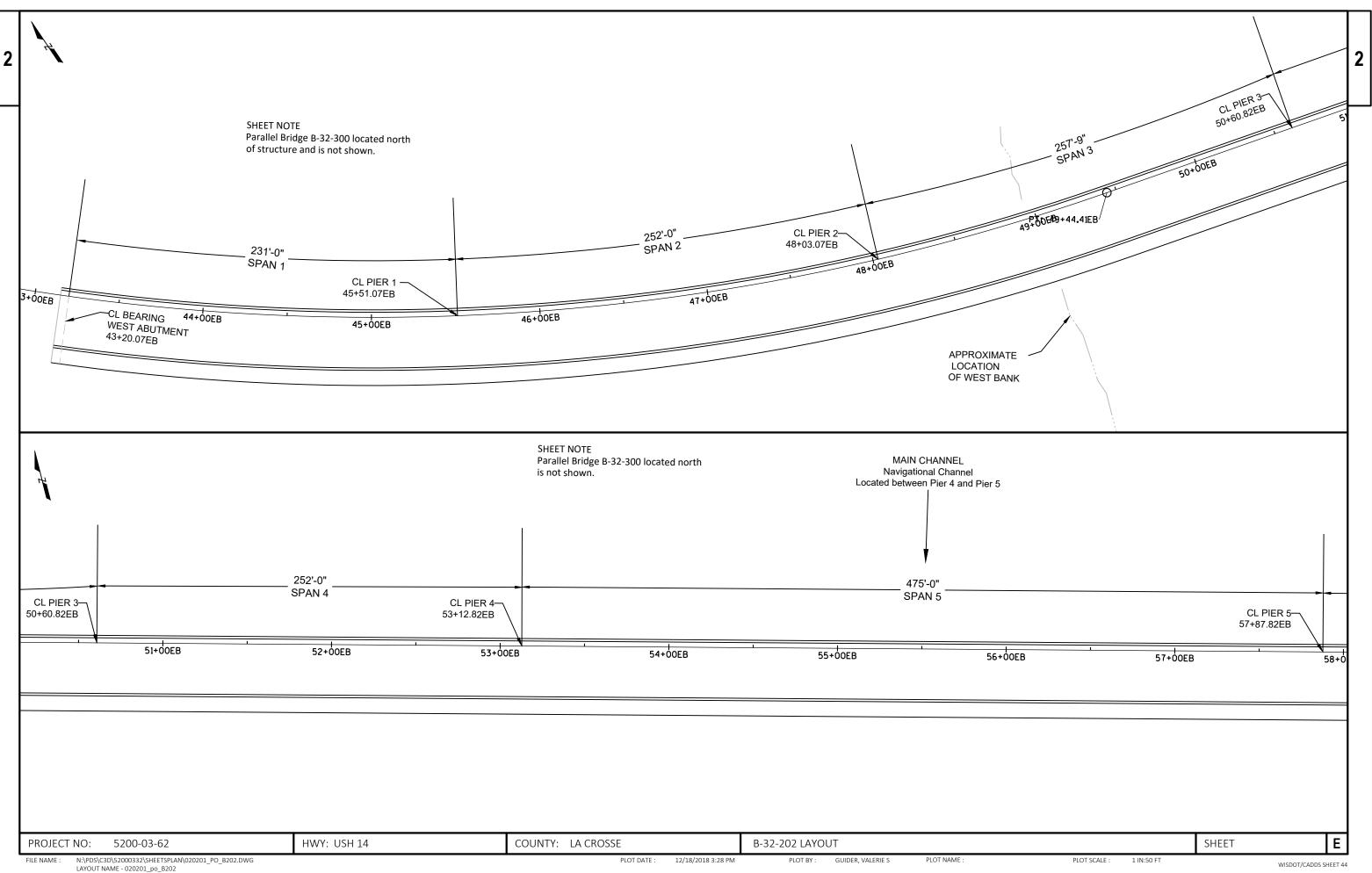
D.D. **ESALS**

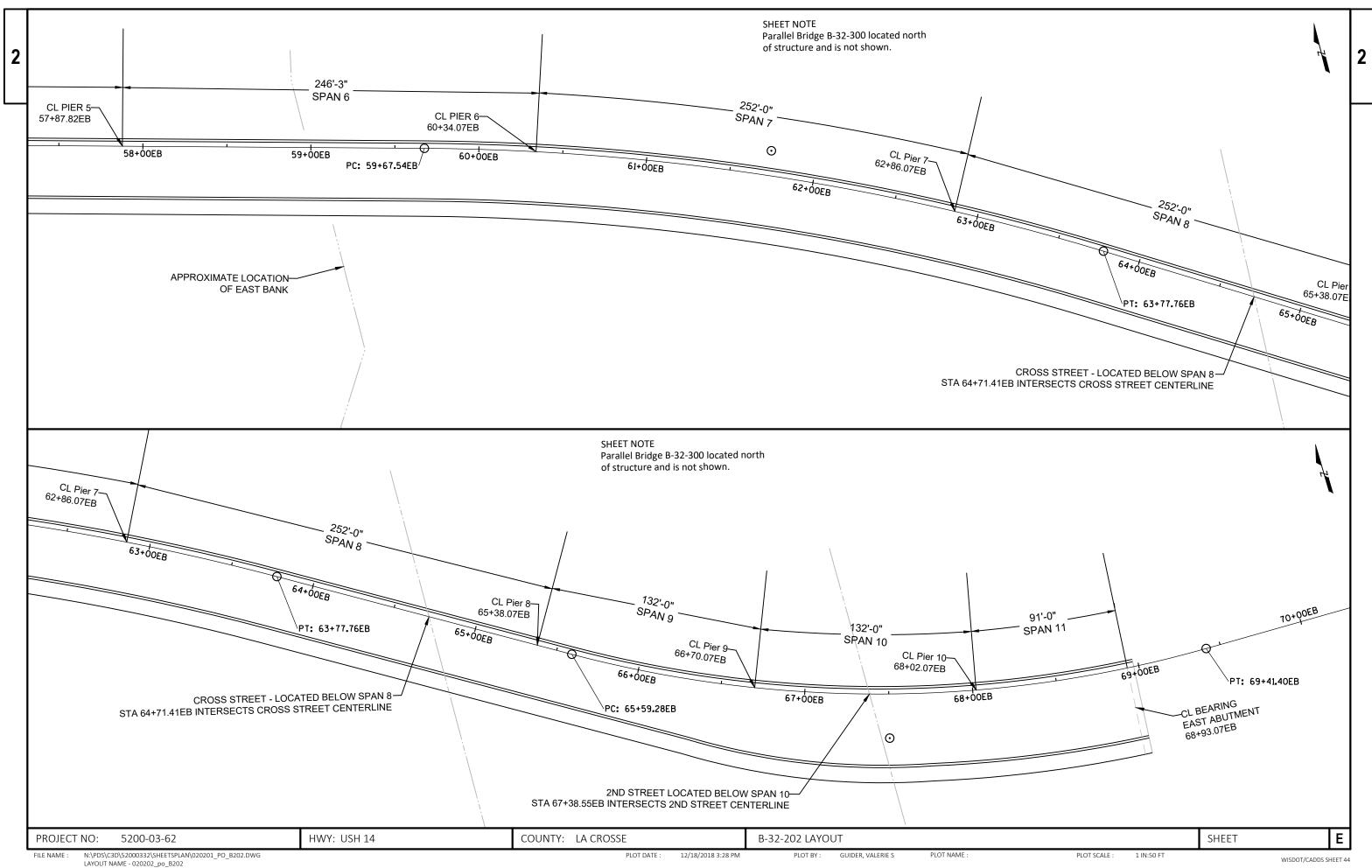
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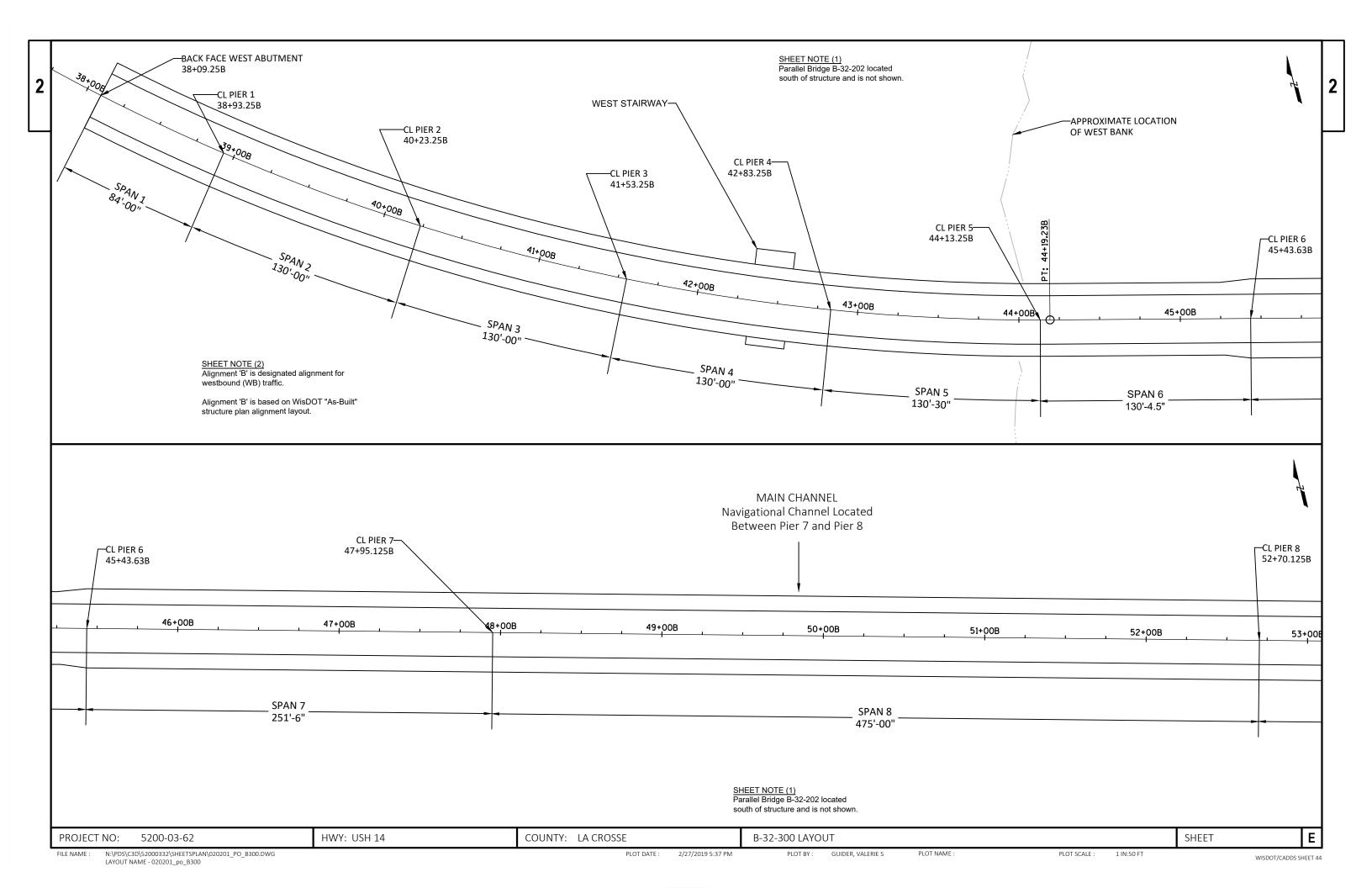
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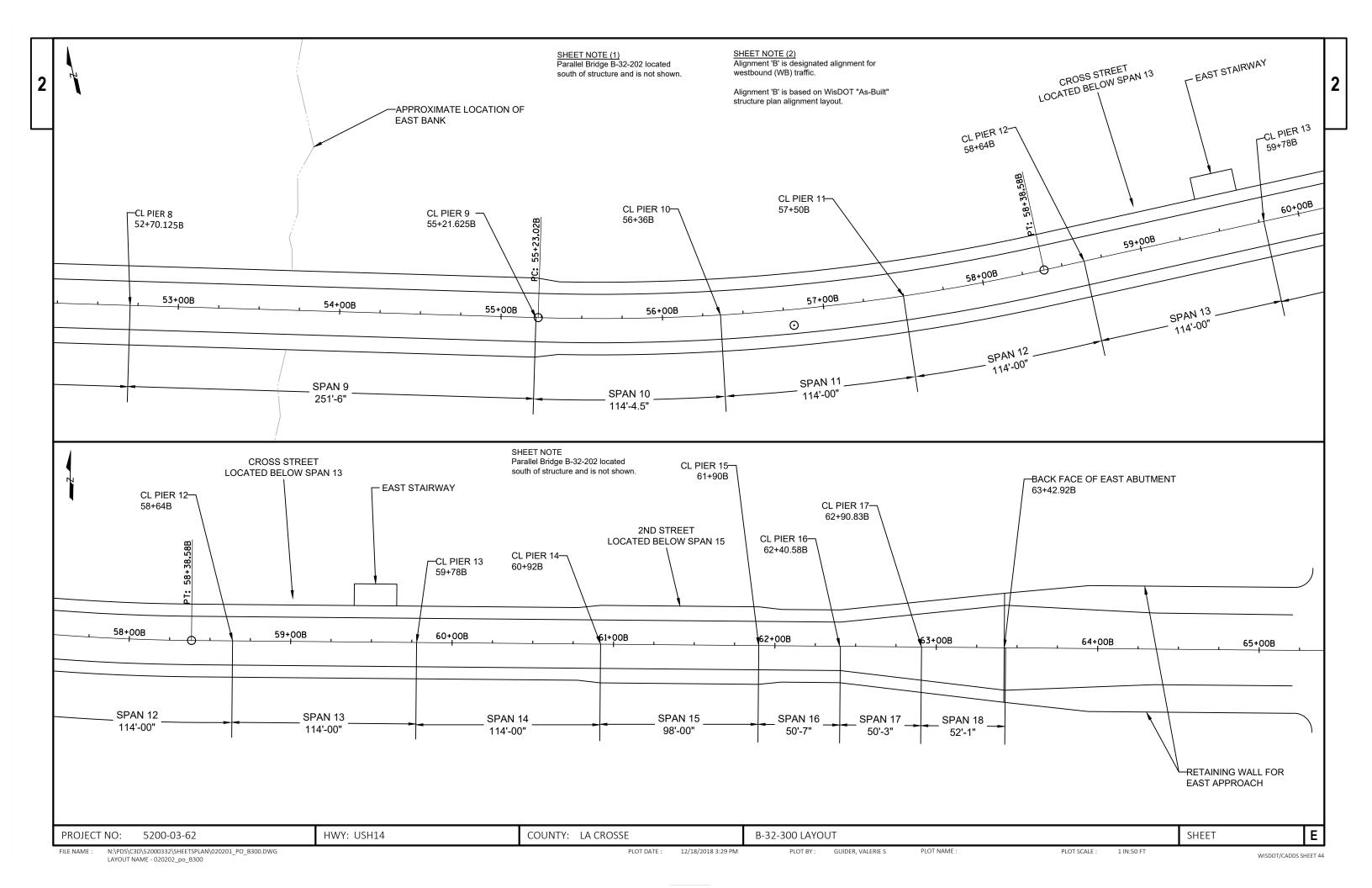
PERCENT TRUCKS

PLOT DATE: 3/22/2019 8:29 AM









TRAFFIC CONTROL DRUM

SIGN ON TEMPORARY SUPPORT ■

■ DIRECTION OF TRAFFIC

WORK ZONE

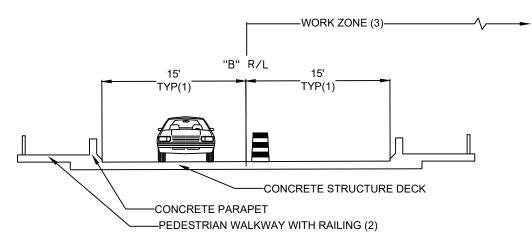
EXISTING LIGHT POLE

SIGN ON PERMANENT SUPPORT

MB PORTABLE CHANGEABLE MESSAGE SIGN

TRAFFIC CONTROL NOTES FOR ALL TRAFFIC CONTROL SHEETS

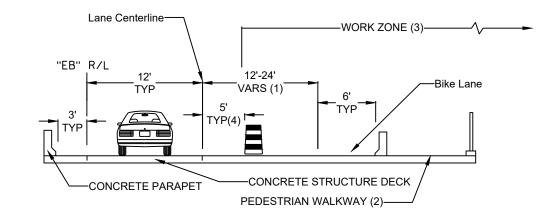
- 1. ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.
- 2. ALL TYPE III BARRICADES ARE 8' IN LENGTH UNLESS SPECIFIED OR NOTED.
- 3. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE SIGN BACKGROUND IS ORANGE.
- 4. ALL TRAFFIC CONTROL DEVICE LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- 5. HOURS OF LANE CLOSURE RESTRICTIONS: CAMERON (B-32-202), EASTBOUND (INBOUND) 6:00AM TO 9:00AM. CASS (B-32-300), WESTBOUND (OUTBOUND) - 3:00PM TO 6:00PM.



B-32-300 WORK ZONE STRUCTURE ROADWAY AREA 38+09.3B TO 63+42.9B (Looking East)

Notes:

- (1) Width increases to 26'-3" from 62+90.8B to 63+41.3B
- (2) Full bridge pedestrian cross access only on north side of structure (3) Left traffic lane closed as shown. Change lane closure signing according to work plan. Maintain one open lane for traffic during work operations.



B-32-202 WORK ZONE STRUCTURE ROADWAY AREA 43+15EB TO 68+97EB (Looking East)

Notes:

- (1) Variable width from 66+34EB to 67+74EB to accommodate right turn lane.
- (2) Full bridge pedestrian cross access only on south side of structure.
- (3) Right traffic lane closed as shown. Change lane closure signing according to work plan. Maintain one open lane for traffic during work operations.
- (4) Barrel shifted 5' right from lane line to accommodate bicycle traffic. For Left lane closure, barrel to be placed left of lane centerline and maintain bike lane.

FILE NAME: N:\PDS\C3D\52000332\SHEETSPLAN\025001 TC.DWG

5200-03-62

PROJECT NO:

HWY: USH 14

COUNTY: LA CROSSE

TRAFFIC CONTROL

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PLOT SCALE · ####

SHEET

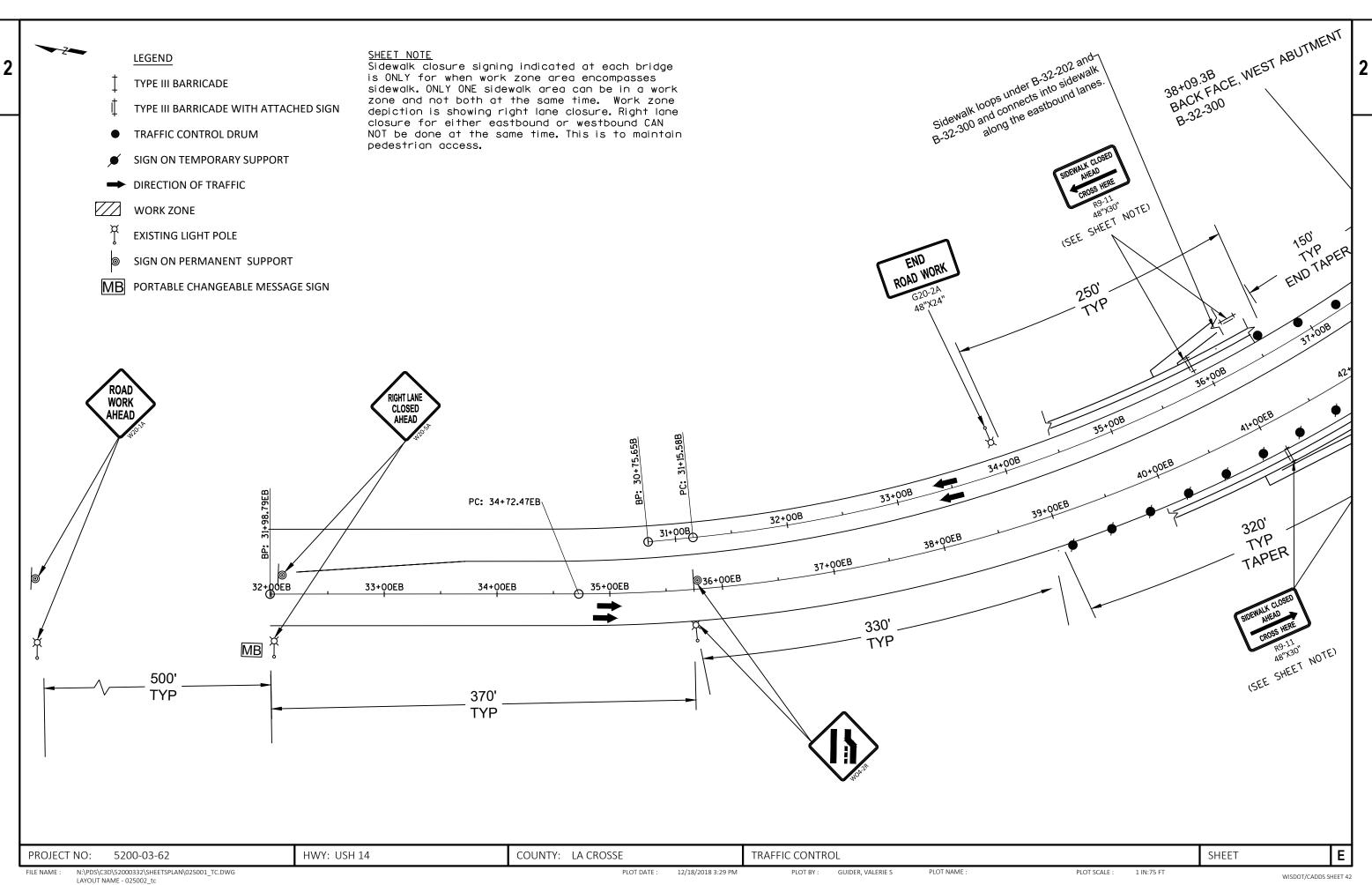
LAYOUT NAME - 025001_tc

PLOT DATE : 3/22/2019 4:02 PM

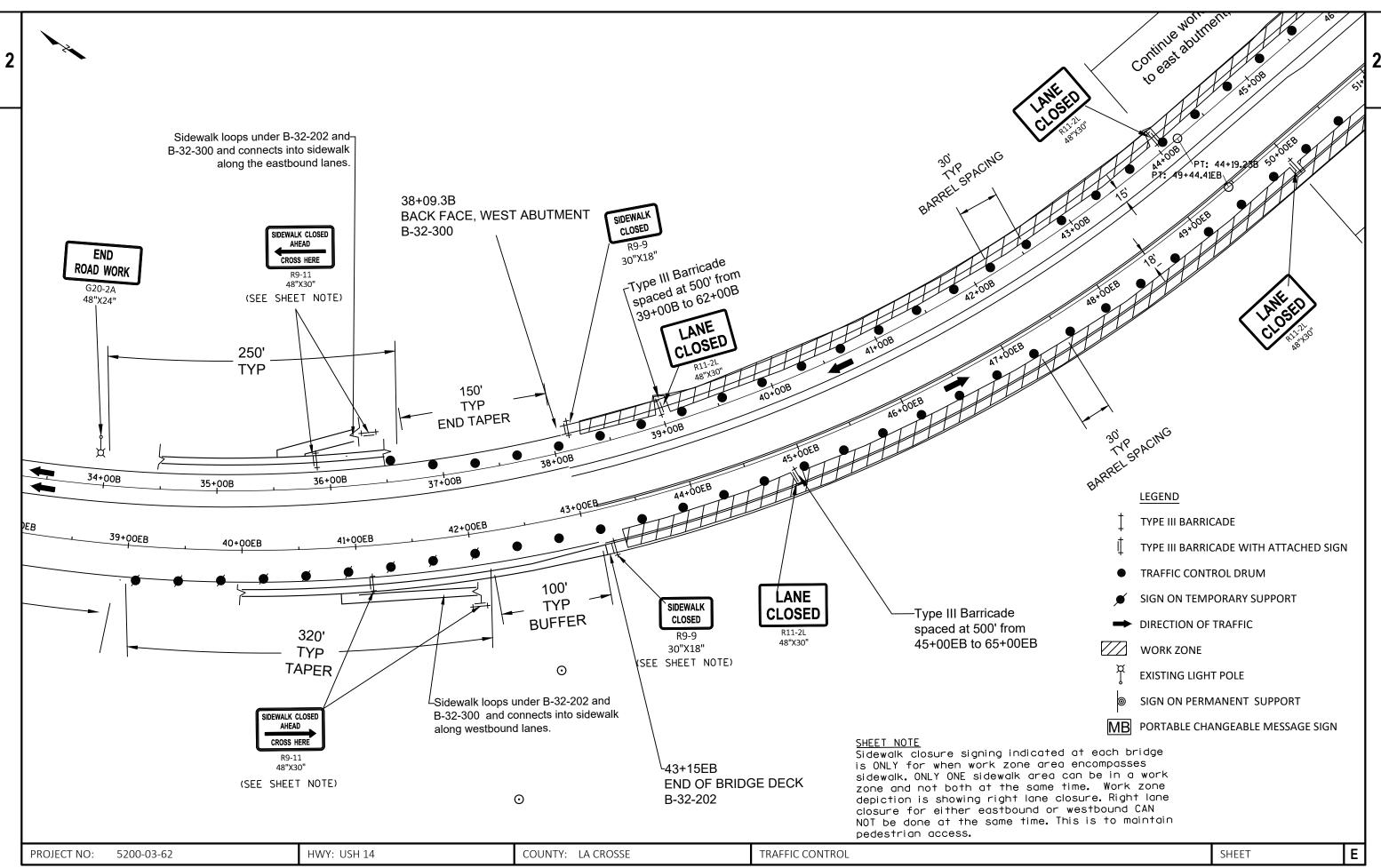
PLOT BY: GUIDER, VALERIE S

PLOT NAME :

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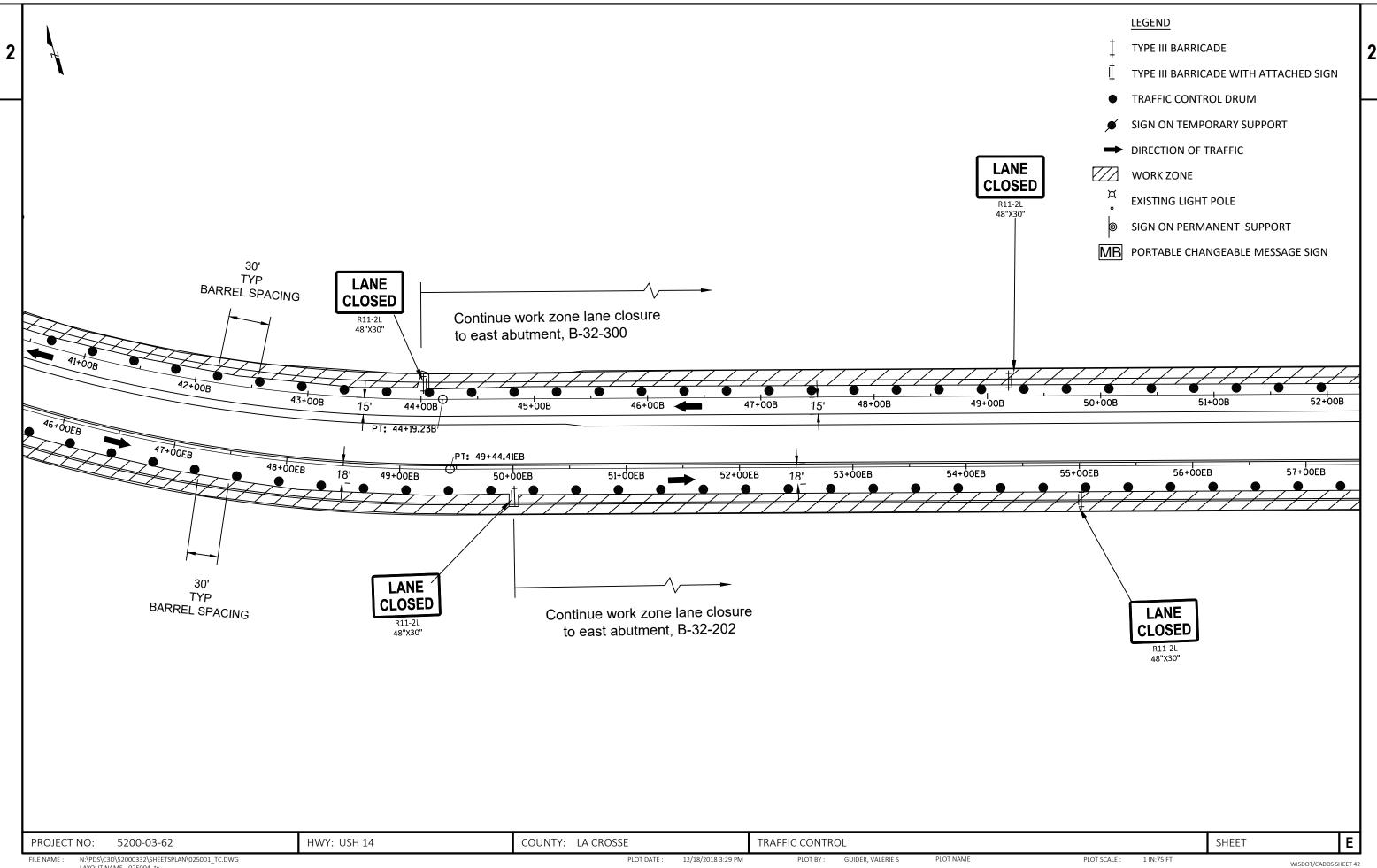


WISDOT/CADDS SHEET 42

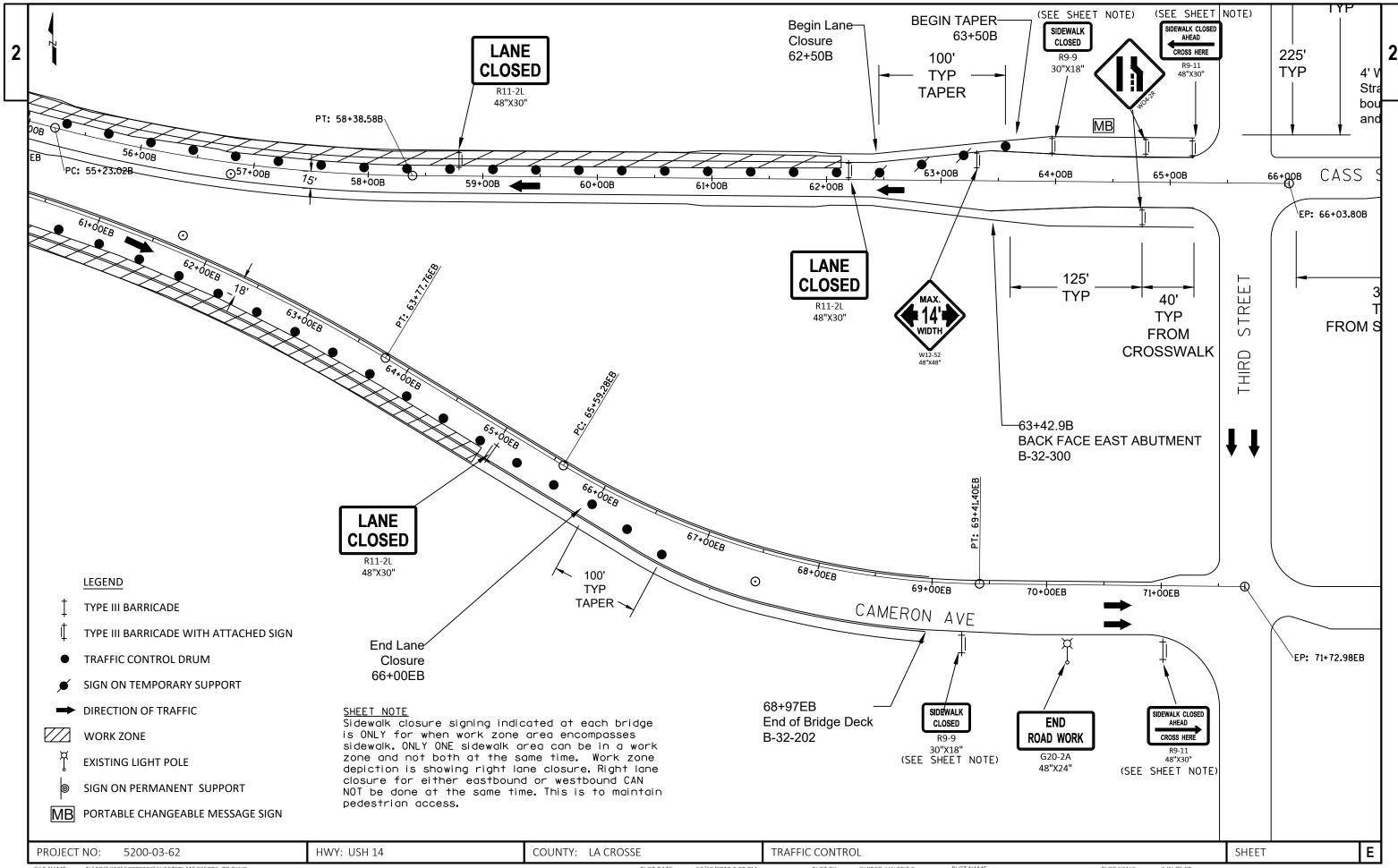


N:\PDS\C3D\52000332\SHEETSPLAN\025001_TC.DWG LAYOUT NAME - 025003_tc PLOT NAME : 12/18/2018 3:29 PM GUIDER, VALERIE S PLOT DATE : PLOT SCALE : 1 IN:75 FT

WISDOT/CADDS SHEET 42

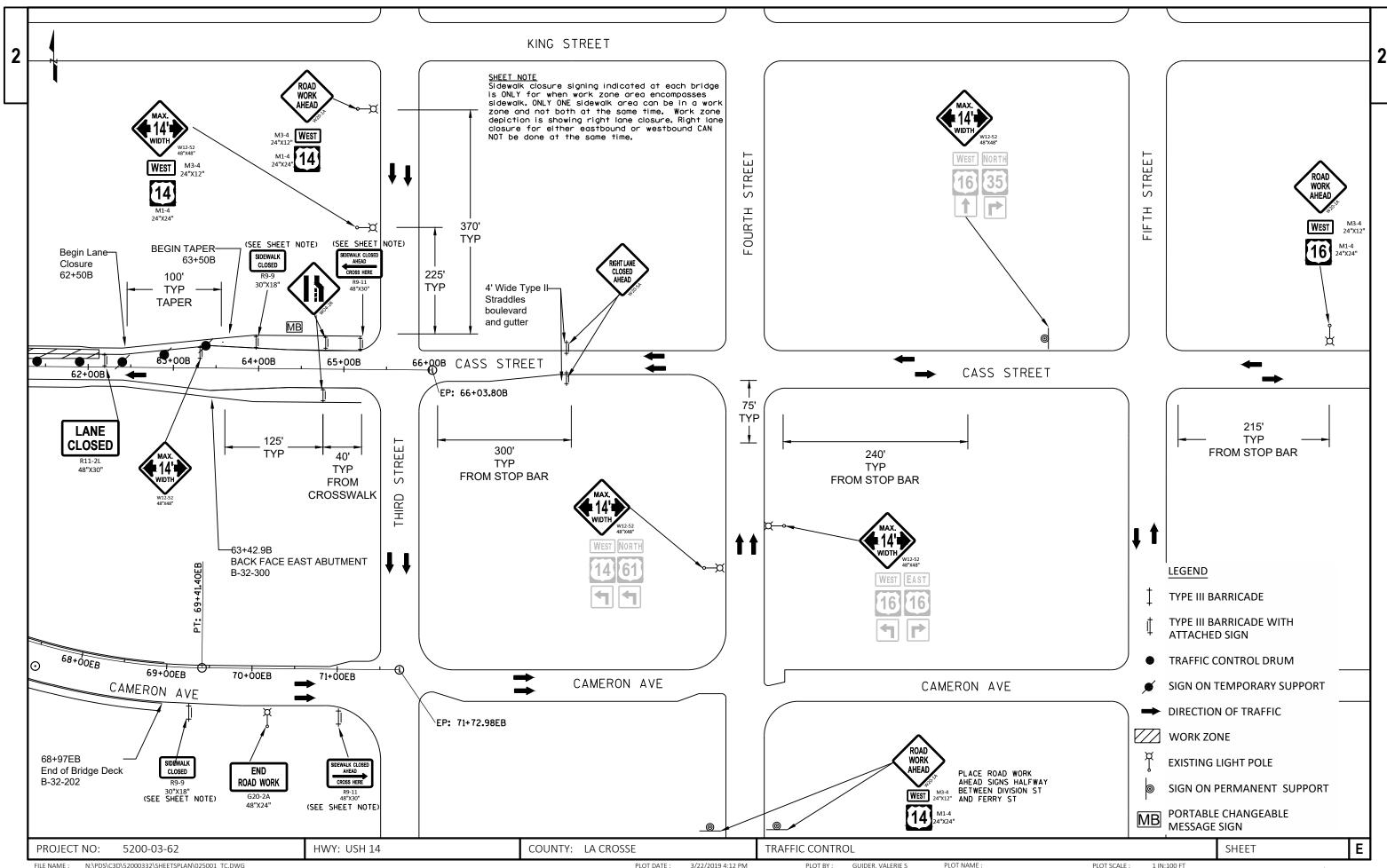


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FILE NAME: N:\PDS\C3D\\$2000332\\$HEETSPLAN\025001_TC.DWG PLOT DATE: 12/18/2018 3:29 PM PLOT BY: GUIDER, VALERIE S PLOT NAME: PLOT SCALE: 1 IN:75 FT WISDOT/CADDS SHEET 42 AYOUT NAME - 025005_tc

LAYOUT NAME - 025005_tc



FILE NAME : N:\PDS\C3D\52000332\SHEETSPLAN\025001_TC.DWG LAYOUT NAME - 025006_tc

PLOT DATE : 3/22/2019 4:12 PM

GUIDER, VALERIE S PLOT BY:

PLOT NAME

1 IN:100 FT

WISDOT/CADDS SHEET 42

					5200-03-62	
Line	Item	Item Description	Unit	Total	Qty	
0002	213.0100	Finishing Roadway (project) 01. 5200-03-62	EACH	1.000	1.000	
0004	502.0100	Concrete Masonry Bridges	CY	40.000	40.000	
0006	502.4205	Adhesive Anchors No. 5 Bar	EACH	12.000	12.000	
8000	502.4209	Adhesive Anchors No. 9 Bar	EACH	22.000	22.000	
0010	506.0105	Structural Steel Carbon	LB	500.000	500.000	
0012	517.1010.S	Concrete Staining (structure) 01. B-32-300	SF	2,449.000	2,449.000	
0014	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5200-03-62	EACH	1.000	1.000	
0016	619.1000	Mobilization	EACH	1.000	1.000	
0018	642.5001	Field Office Type B	EACH	1.000	1.000	
0020	643.0300	Traffic Control Drums	DAY	540.000	540.000	
0022	643.0410	Traffic Control Barricades Type II	DAY	2.000	2.000	
0024	643.0420	Traffic Control Barricades Type III	DAY	124.000	124.000	
0026	643.0705	Traffic Control Warning Lights Type A	DAY	188.000	188.000	
0028	643.0715	Traffic Control Warning Lights Type C	DAY	48.000	48.000	
0030	643.0900	Traffic Control Signs	DAY	608.000	608.000	
0032	643.0920	Traffic Control Covering Signs Type II	EACH	40.000	40.000	
0034	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000	
0036	643.5000	Traffic Control	EACH	1.000	1.000	
0038	715.0502	Incentive Strength Concrete Structures	DOL	500.000	500.000	
0040	SPV.0060	Special 01. Removing Rivets	EACH	108.000	108.000	
0042	SPV.0085	Special 01. Obtaining and Installing Bar Steel Reinforcement HS Coated Structures	LB	6,535.000	6,535.000	
0044	SPV.0105	Special 01. Structure Spot Cleaning and Painting B-32-300	LS	1.000	1.000	
0046	SPV.0105	Special 02. Strip Seal Gland Replacement B-32-202	LS	1.000	1.000	
0048	SPV.0165	Special 01. Shotcrete Surface Repair	SF	99.000	99.000	

TRAFFIC CONTROL

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				SERVICE	TRA CON	.0300 FFIC TROL	TRA CO BARF	3.0410 AFFIC NTROL RICADES	TI CI BAR	3.0420 RAFFIC ONTROL RICADES	TF CC WA L	3.0705 RAFFIC DNTROL ARNING IGHTS	TR CC WA L:	3.0715 AFFIC ONTROL RNING IGHTS	TF	3.0900 RAFFIC DNTROL	
CATEGORY	LOCATION	SIGN CODE	E MESSAGE	PERIOD _ DAYS	NO DE	DAY	NO	PE II DAY	NO NO	PE III DAY	NO NO	YPE A DAY	NO	YPE C DAY	NO NO	DAY	REMARKS
0010	WEST OF WORK ZONE	G20-2A	END ROAD WORK	25	0	0	0	0	0	0	0	0	0	0	1	25	WESTBOUND LANE CLOSURE
0010	WEST OF WORK ZONE	R9-11	SW CLOSED AHEAD W/ ARROW	5	0	0	0	0	2	10	0	0	0	0	2	10	WESTBOUND LANE CLOSURE
0010	WEST OF WORK ZONE	R9-9	SIDEWALK CLOSED	5	0	0	0	0	1	5	0	0	0	0	1	5	WESTBOUND LANE CLOSURE
0010	39+00B - 62+00B	R11-2L	LANE CLOSED	5	89	445	0	0	5	25	10	50	9	45	5	25	WESTBOUND LANE CLOSURE
0010	EAST OF WORK ZONE	W12-52	MAX 14' WIDTH	5	0	0	0	0	1	5	2	10	0	0	5	25	WESTBOUND LANE CLOSURE
0010	EAST OF WORK ZONE	R9-9	SIDEWALK CLOSED	5	0	0	0	0	1	5	0	0	0	0	1	5	WESTBOUND LANE CLOSURE
0010	EAST OF WORK ZONE	w04-2R	WORK ZONE LANE ENDS	5	0	0	0	0	2	10	4	20	0	0	2	10	WESTBOUND LANE CLOSURE
0010	EAST OF WORK ZONE	R9-11	SW CLOSED AHEAD W/ ARROW	5	0	0	0	0	1	5	0	0	0	0	1	5	WESTBOUND LANE CLOSURE
0010	EAST OF WORK ZONE	W20-5A	RT/LT LANE CLOSED AHEAD	5	0	0	0	0	0	0	0	0	0	0	2	10	WESTBOUND LANE CLOSURE
0010	EAST OF WORK ZONE	м3-4	WEST	25	0	0	0	0	0	0	0	0	0	0	5	125	WESTBOUND LANE CLOSURE
0010	EAST OF WORK ZONE	M1-4	USH 14 OR 16	25	0	0	0	0	0	0	0	0	0	0	5	125	WESTBOUND LANE CLOSURE
0010	EAST OF WORK ZONE	W20-1A	ROAD WORK AHEAD	25	0	0	0	0	0	0	0	0	0	0	4	100	WESTBOUND LANE CLOSURE
0010	WEST OF WORK ZONE	W20-1A	ROAD WORK AHEAD	25	0	0	0	0	0	0	0	0	0	0	2	50	EASTBOUND LANE CLOSURE
0010	WEST OF WORK ZONE	W20-1A	RT/LT LANE CLOSED AHEAD	1	95	95	0	0	0	0	0	0	3	3	2	2	EASTBOUND LANE CLOSURE
0010	WEST OF WORK ZONE	W04-2R	WORK ZONE LANE ENDS	1	0	0	0	0	0	0	0	0	0	0	2	2	EASTBOUND LANE CLOSURE
0010	WEST OF WORK ZONE	R9-11	SW CLOSED AHEAD W/ ARROW	1	0	0	0	0	2	2	0	0	0	0	2	2	EASTBOUND LANE CLOSURE
0010	WEST OF WORK ZONE	R9-9	SIDEWALK CLOSED	1	0	0	0	0	1	1	0	0	0	0	1	1	EASTBOUND LANE CLOSURE
0010	45+00EB - 65+00EB	R11-2L	LANE CLOSED	1	0	0	0	0	4	4	8	8	0	0	4	4	EASTBOUND LANE CLOSURE
0010	EAST OF WORK ZONE	R9-9	SIDEWALK CLOSED	1	0	0	0	0	1	1	0	0	0	0	1	1	EASTBOUND LANE CLOSURE
0010	EAST OF WORK ZONE	G20-2A	END ROAD WORK	25	0	0	0	0	0	0	0	0	0	0	1	25	EASTBOUND LANE CLOSURE
0010	EAST OF WORK ZONE	R9-11	SW CLOSED AHEAD W/ ARROW	1	0	0	0	0	1	1	0	0	0	0	1	1	EASTBOUND LANE CLOSURE
0010	BELOW STRUCTURE	W20-1A	ROAD WORK AHEAD	25	0	0	0	0	2	50	4	100	0	0	2	50	2ND STREET
0010	EAST OF WORK ZONE	W20-5A	RT/LT LANE CLOSED AHEAD	1	0	0	2	2	0	0	0	0	0	0	0	0	
				TOTAL 0010	=	540	=	2	_	124	_	188	_	48		608	

TRAFFIC CONTROL SIGNS PCMS

			643.1050
CATEGORY	STATION	LOCATION	DAY
0010	32+00EB	RT	7
0010	64+00B	LT	7
		TOTAL 0010	14

TRAFFIC CONTROL COVERING SIGNS TYPE II

		# OF	# OF	643.0920
SIGN CODE	MESSAGE	CYCLES	SIGNS	EACH
W12-52	MAX 14' WIDTH	5	4	20
W04-2R	WORK ZONE LANE ENDS	5	2	10
w20-5A	RT/LT LANE CLOSED AHEAD	5	2	10
	TOTAL 0010			40
	W12-52 W04-2R	w12-52 MAX 14' WIDTH W04-2R WORK ZONE LANE ENDS W20-5A RT/LT LANE CLOSED AHEAD	SIGN CODE MESSAGE CYCLES W12-52 MAX 14' WIDTH 5 W04-2R WORK ZONE LANE ENDS 5 W20-5A RT/LT LANE CLOSED AHEAD 5	SIGN CODE MESSAGE CYCLES SIGNS W12-52 MAX 14' WIDTH 5 4 W04-2R WORK ZONE LANE ENDS 5 2 W20-5A RT/LT LANE CLOSED AHEAD 5 2

PROJECT NO: 5200-03-62

PLOT DATE: 2/27/2019 5:28 PM

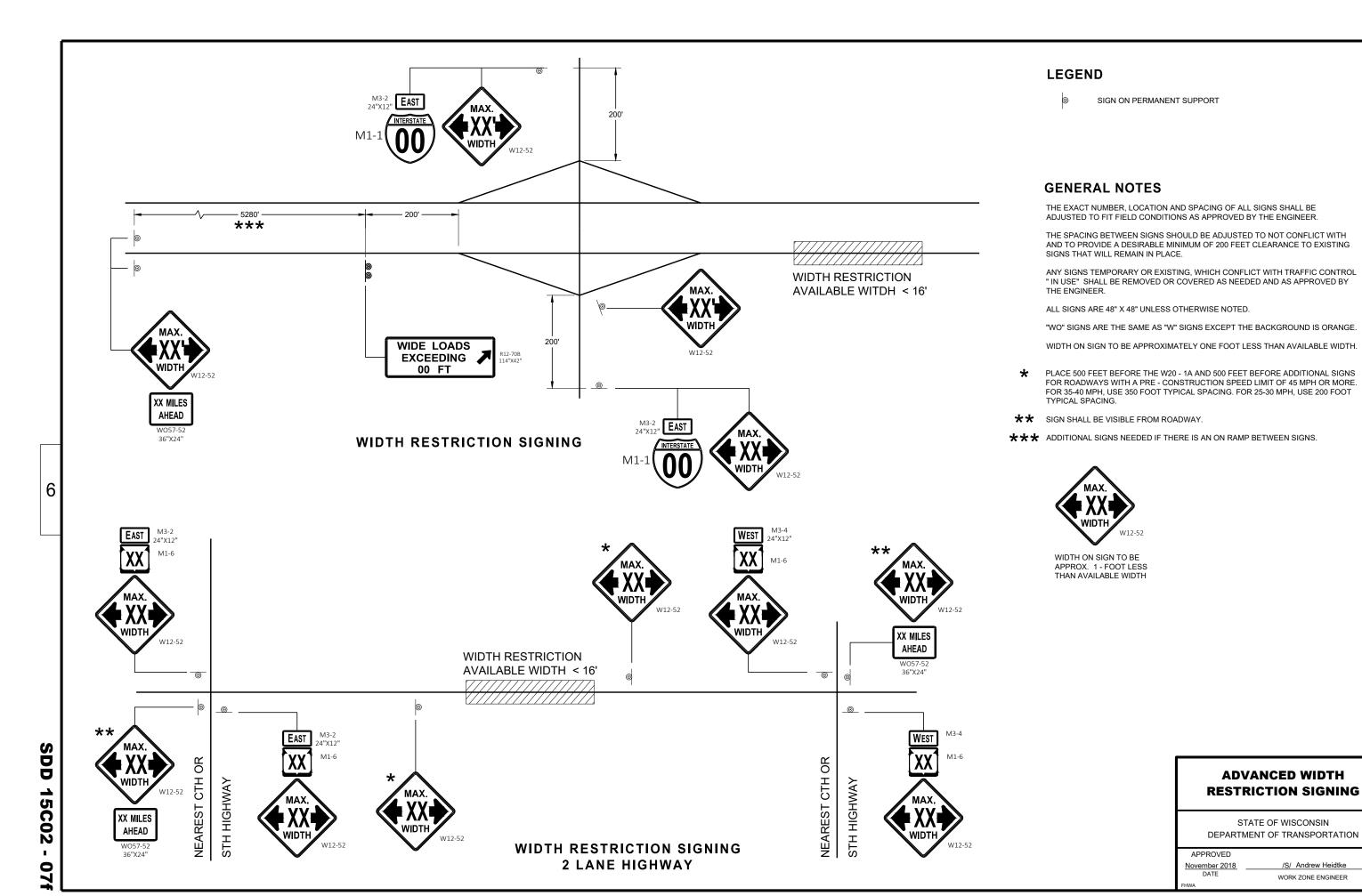
PLOT BY: A.R.H.

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Standard Detail Drawing List

15C02-07F	ADVANCED WIDTH RESTRICTION SIGNING
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C11-07A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D20-04	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D30-04A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-04B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-04C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS



MAINLINE ROADWAY UNDER CONSTRUCTION

ROAD

WORK

AHEAD

CENTER OF ROADWAY

GENERAL NOTES

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

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

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48"

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

imes The Third W20-1Sign is required only if there is an intersection BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED 6

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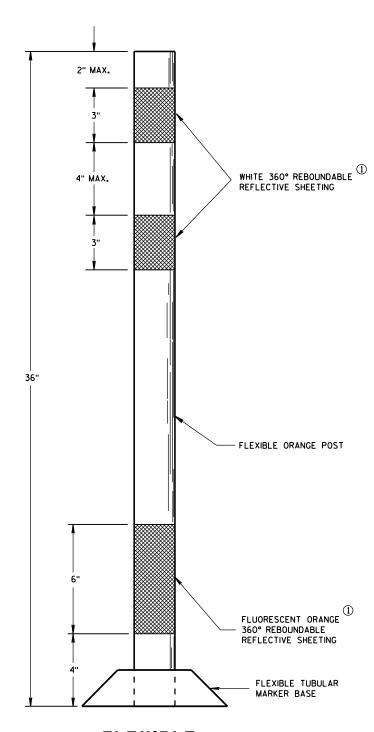
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

ROAD OPEN TO TRAFFIC

APPROVED

7/2018 /S/ Andrew Heidtke DATE WORK ZONE ENGINEER

D D 15 C S



FLEXIBLE TUBULAR MARKER POST **WORK ZONE**

GENERAL NOTES

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

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

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

> CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Andrew Heidtke WORK ZONE ENGINEER FHWA

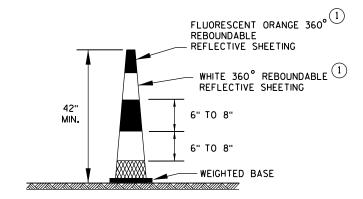
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Ω Ω **DRUM**

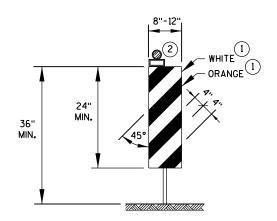
TYPE 2 BARRICADE

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



42" CONE

DO NOT USE IN TAPERS 1/2 SPACING OF DRUMS

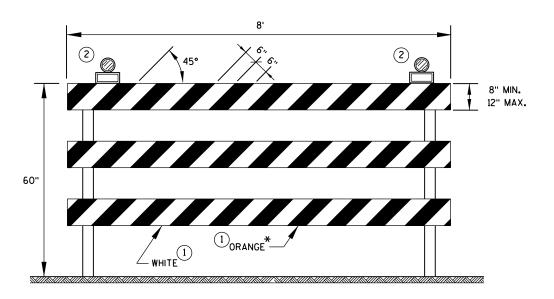


VERTICAL PANEL

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

GENERAL NOTES

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



TYPE 3 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

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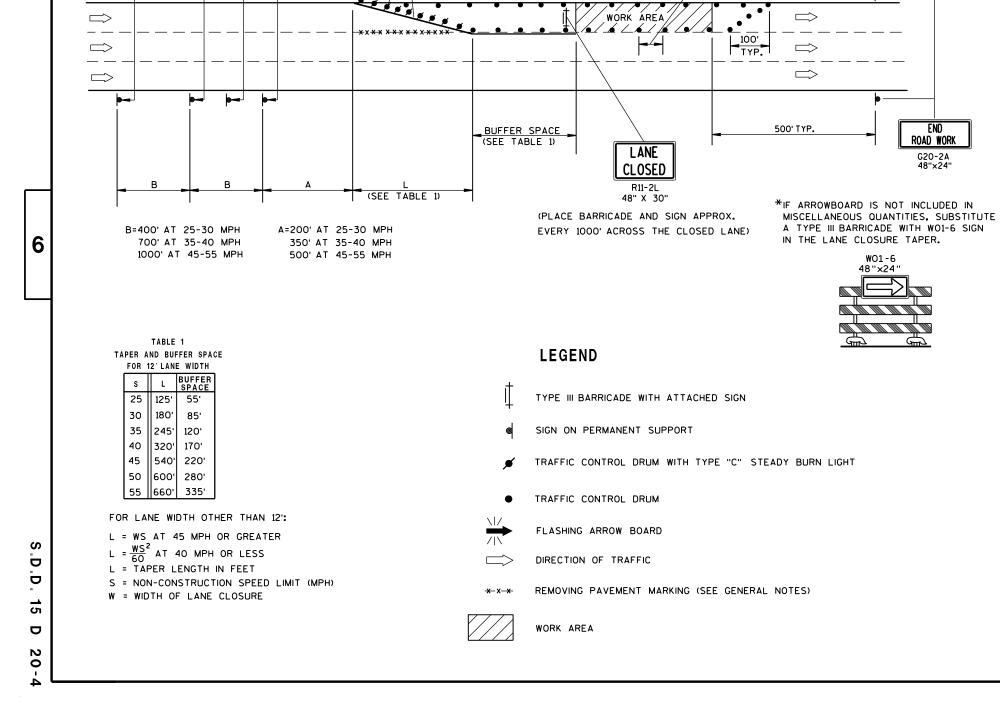
APPROVED

June 2017
DATE

WORK ZONE ENGINEER
FHWA

S.D.D. 15 C 1





(5) DRUMS SPACED @ 10'

INTERVALS AS NEEDED IN

FRONT OF ARROW BOARD

TEMPORARY PAVEMENT MARKING.

4-INCH REMOVABLE TAPE (WHITE ON RIGHT,

25'@ 35 MPH OR LESS 50'@ 40 MPH OR MORE

YELLOW ON LEFT)

SPACING:

ROAD WORK

NEXT___MILES

G20-1

60" X 24"

CLOSED

AHEAD

AHEAD

GENERAL NOTES

**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE

ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL

W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF

50' MAX. @ 35 MPH OR LESS

100' MAX. @ 40 MPH OR MORE

IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC

TRAFFIC. IN ADVANCE OF THE WORK AREA.

SPACING:

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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 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.

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE 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.

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

TRAFFIC CONTROL SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED June 2016

/S/ Peter Amakobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

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CLOSED

R9-9 24"×12'

TEMPORARY PEDESTRIAN

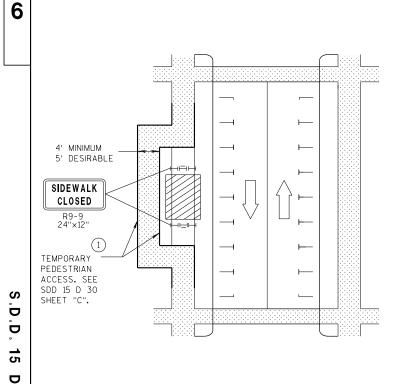
ACCESS. SEE

SDD 15 D 30 SHEET "C".

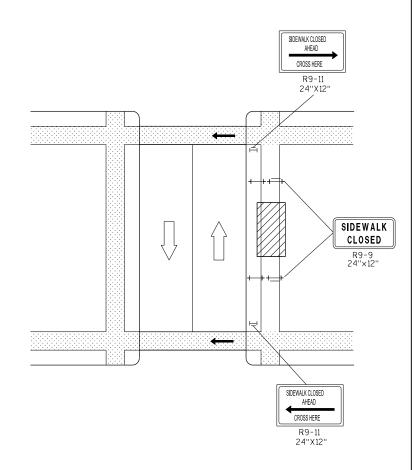
MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

NOTE: LAYOUT SAME AS ABOVE.

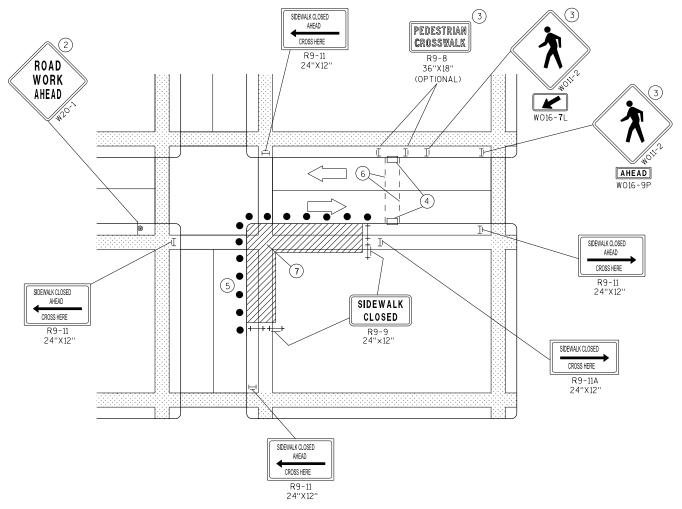
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SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

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

FOR NIGHTTIME CLOSURE USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

- (1) IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE.
- (2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.
- (3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND W011-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.
- (4) TEMPORARY CURB RAMPS. SEE SDD 15 D 30 SHEET "B".
- 5 DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
- (6) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
- (7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

LEGEND

SIGN ON PERMANENT

SLIPPORT UNDER PEDESTRIAN

TRAFFIC

TRAFFIC

TRAFFIC CONTOL DRUM

DIRECTION OF

WORK AREA

PEDESTRIAN CHANNELIZATION DEVICE

TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A. LOW-INTENSITY FLASHING)

TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 4 0 က Ω Ω Δ

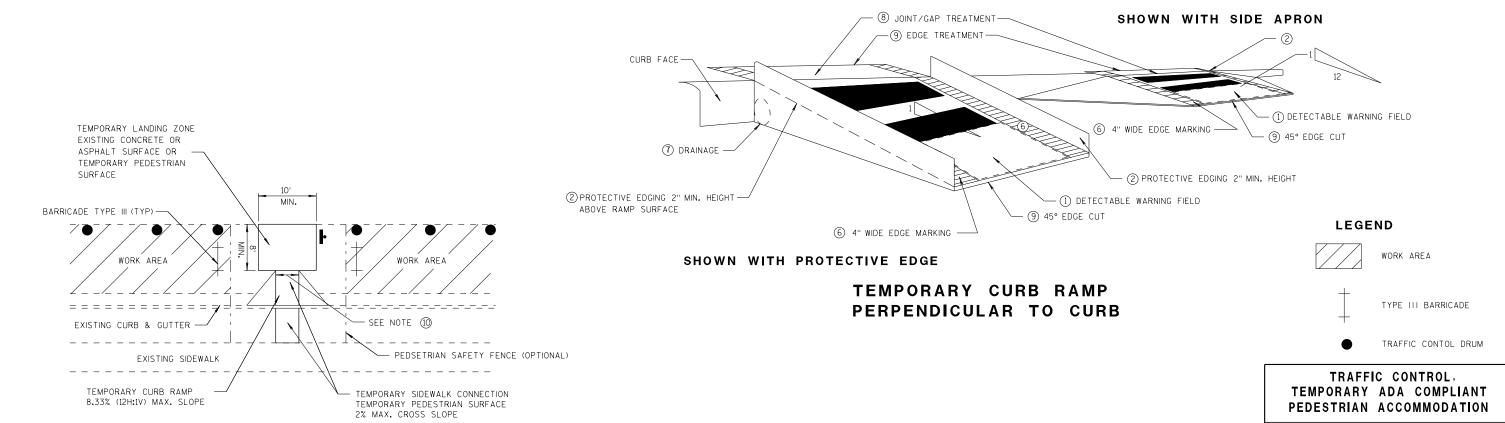
PARALLEL TO CURB

TEMPORARY BUS STOP PAD

GENERAL NOTES

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION. ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

- ① CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 8D5 SHEET "E".
- ② PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- (3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- (4) CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
- (5) CLEAR SPACE OF 48"X48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
- (6) THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.
- 7) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
- (8) LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.
- (9) CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES SHALL BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".
- 5' WIDE MIN. WITH PEDSETRIAN SAFETY FENCE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY FENCE.



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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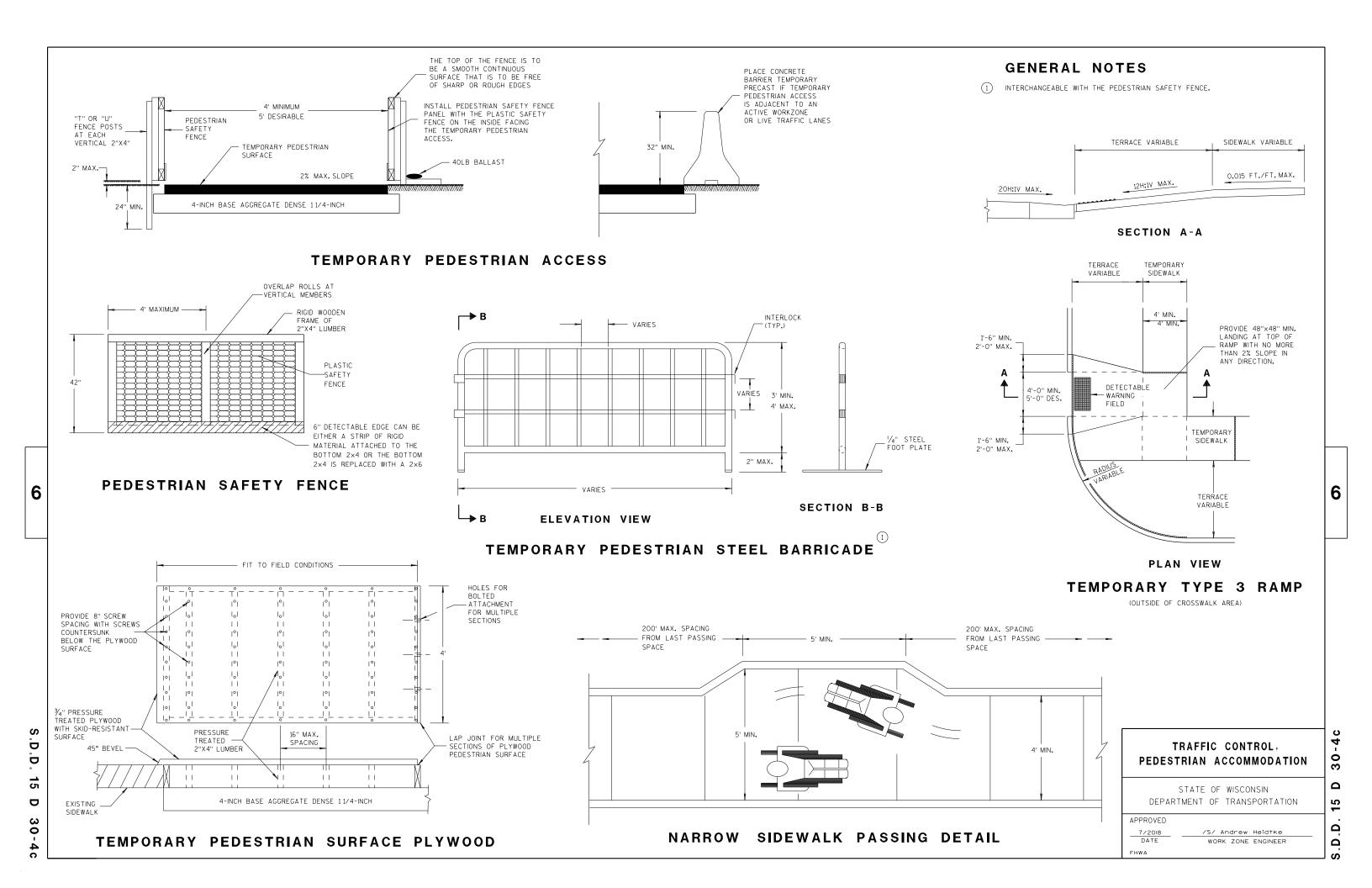
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 APPROVED

 7/2018
 /S/ Andrew Heidtke

 DATE
 WORK ZONE ENGINEER





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 (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREM	MENTS	NUMBER OF	
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	٤
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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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.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 1/6" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

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 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

> ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 /S/ Andrew Heidtke DATE WORK ZONE ENGINEER FHWA

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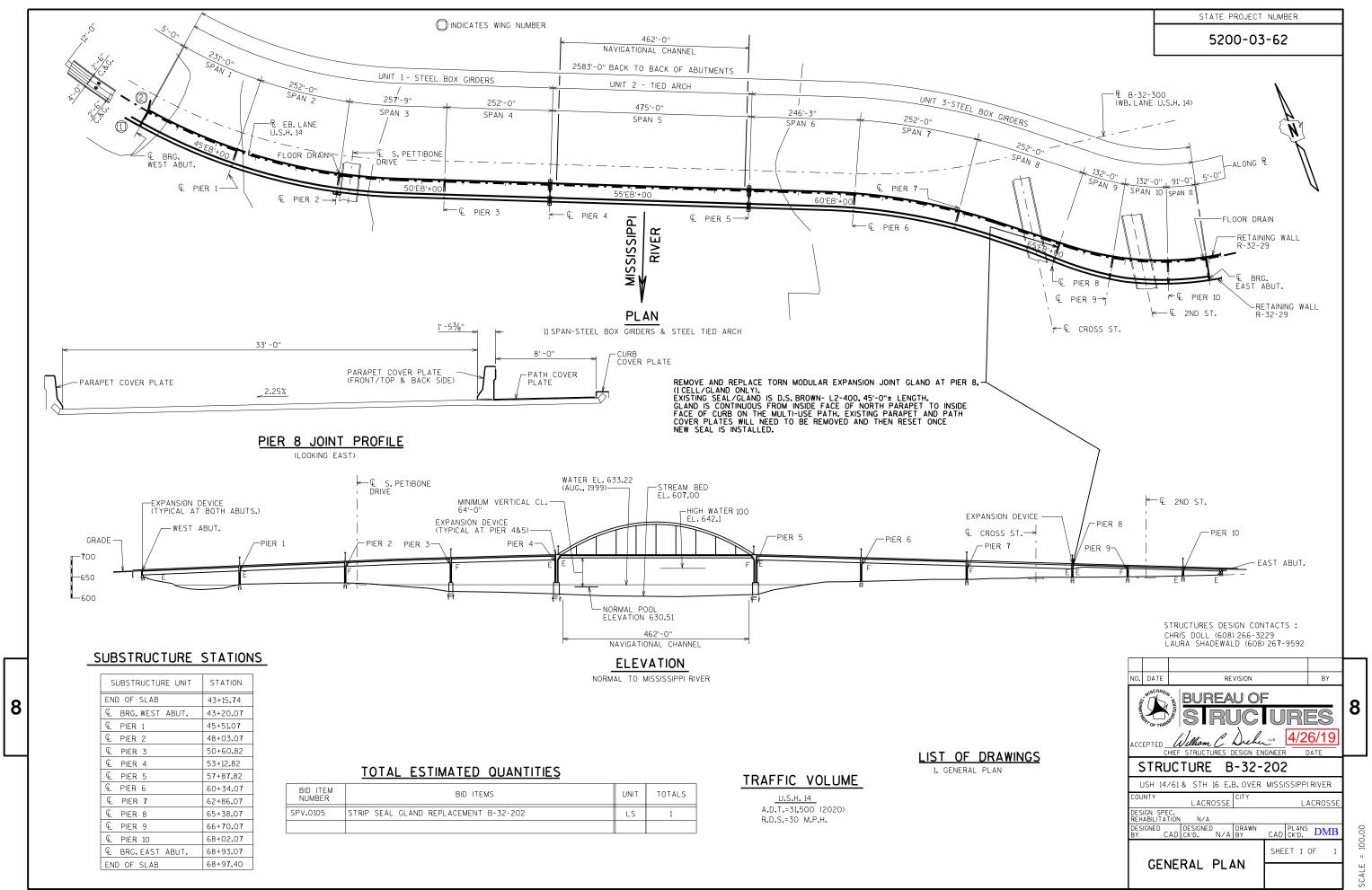
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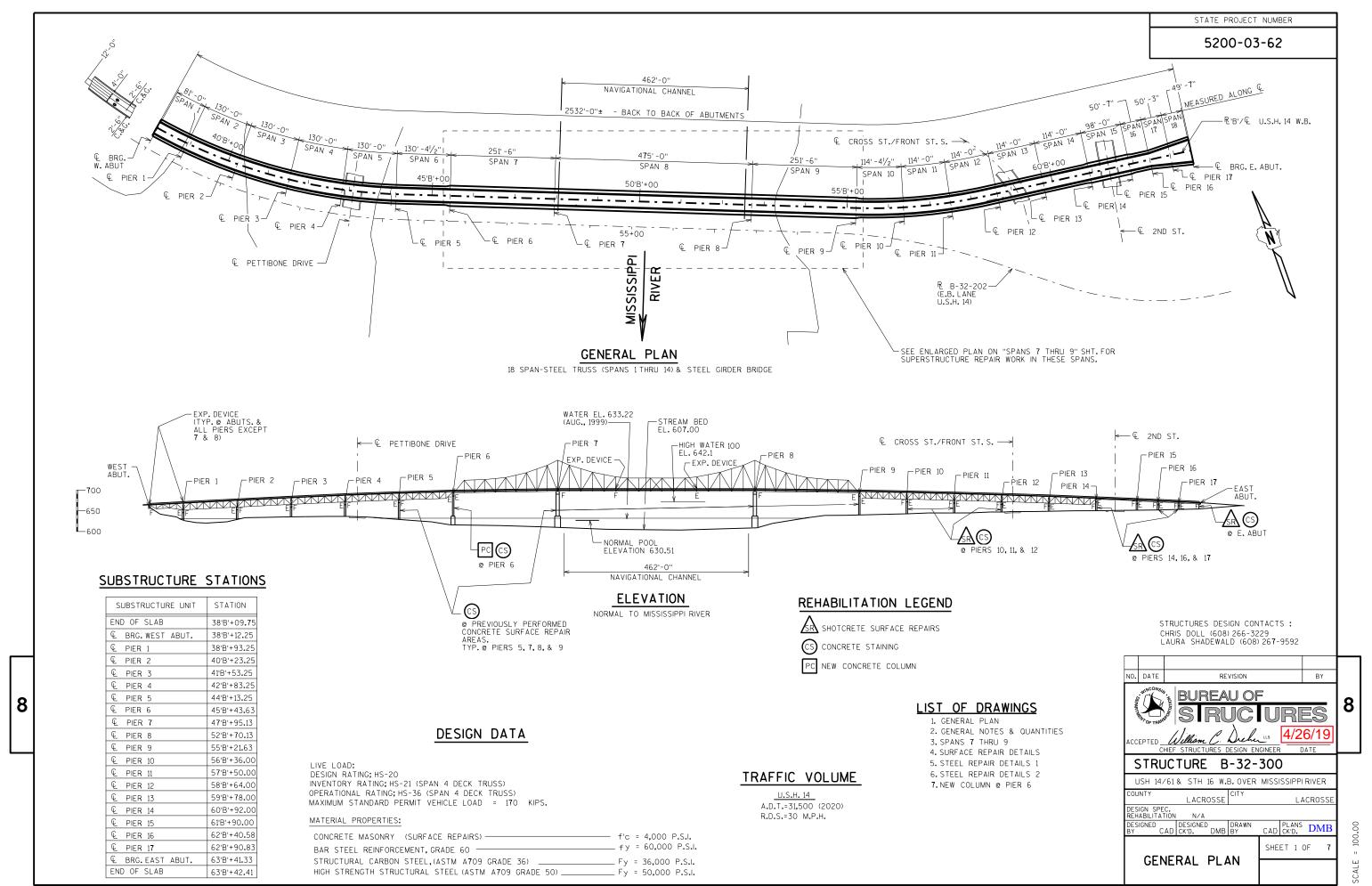
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5200-03-62

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER SPANS 7-9	EAST ABUT.	PIER 5	PIER 6	PIER 7	PIER 8	PIER 9	PIER 10	PIER 11	PIER 12	PIER 14	PIER 16	PIER 17	TOTALS
502.0100	CONCRETE MASONRY BRIDGES	CY				40										40
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH				12										12
502.4209	ADHESIVE ANCHORS NO. 9 BAR	EACH				22										22
506.0105	STRUCTURAL STEEL CARBON	LB	500													500
51 7. 1010.S	CONCRETE STAINING B-32-300	SF		6	300	1,150	300	300	300	22	25	30	4	6	6	2,449
SPV.0060	REMOVING RIVETS	EACH	108													108
SPV.0085	OBTAINING AND INSTALLING BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB				6,535										6,535
* SPV.0105	STRUCTURE SPOT CLEANING AND PAINTING B-32-300	LS														1
SPV.0165	SHOTCRETE SURFACE REPAIR	SF		6						22	25	30	4	6	6	99
					•										•	

^{*}CLEANING AND PAINTING IS LIMITED TO STEEL REPAIR LOCATIONS.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

ALL FIELD CONNECTIONS SHALL BE MADE WITH A325 HIGH-TENSILE STRENGTH BOLTS.

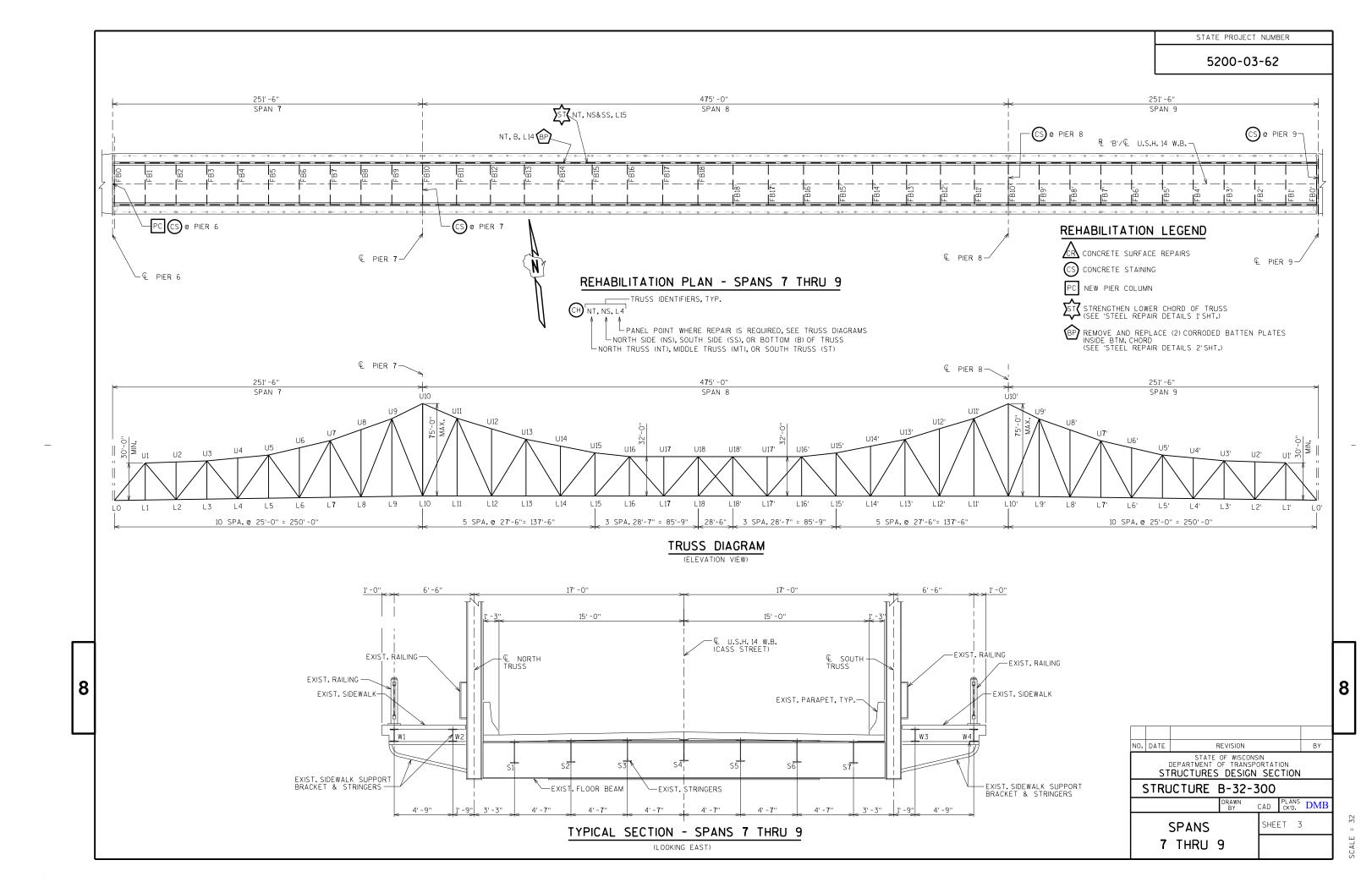
THE COLOR OF THE FINISH EXTERIOR EPOXY TOP COAT SHALL BE BLUE, (FEDERAL STANDARD COLOR NO. 25240) OR SIMILAR COLOR APPROVED BY THE ENGINEER.

ACCESS HATCHES TO THE TOPS OF PIERS 7 & 9 ARE LOCATED IN THE SIDEWALK ON THE SOUTH SIDE OF THE BRIDGE AT THESE PIER LOCATIONS.

SEE ROADWAY PLANS FOR TRAFFIC CONTROL REQUIREMENTS.

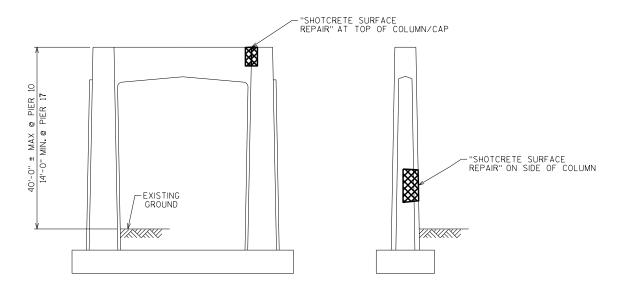
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NO. DATE REVISION BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION STRUCTURE B-32-300 DRAWN CAD PLANS DMB GENERAL NOTES SHEET 2 & QUANTITES

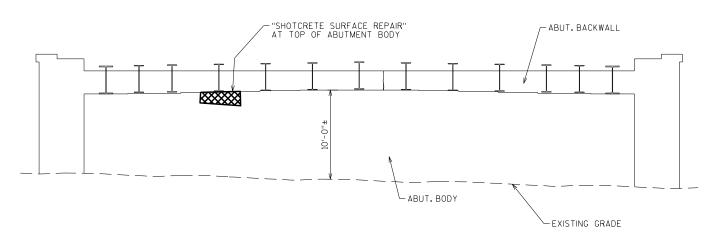


STATE PROJECT NUMBER

5200-03-62



TYPICAL PIER ELEVATIONS



EAST ABUTMENT - ELEVATION

<u>NOTES</u>

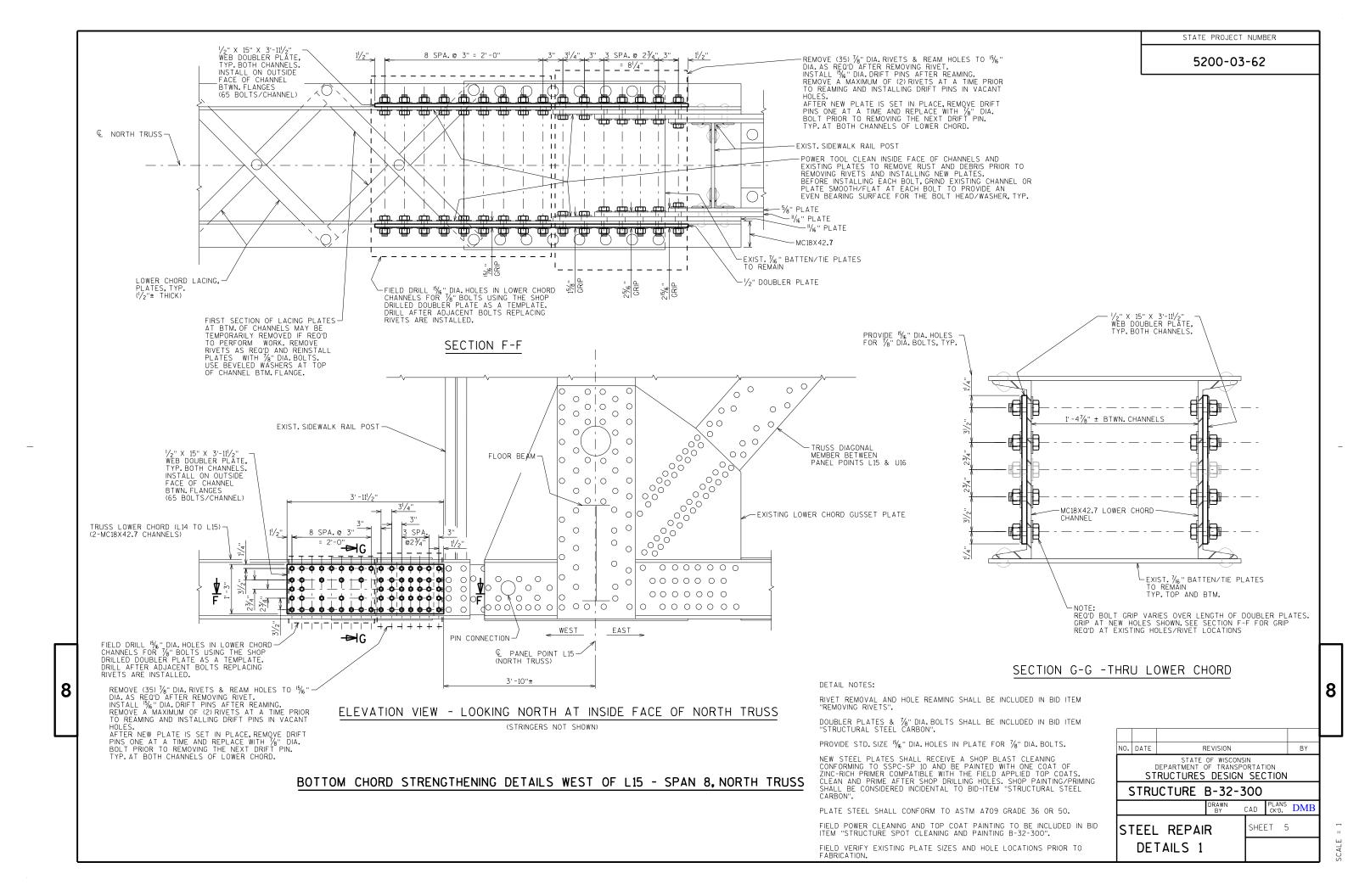
THIS SHEET DEPICTS THE GENERAL TYPES AND LOCATIONS OF REPAIRS, AND MAY NOT BE ALL INCLUSIVE. QUANTITIES SHOWN ON SHT. 2 ARE APPROXIMATE. ADDITIONAL REPAIRS MAY BE REQUIRED DURING CONSTRUCTION AND SHOULD BE PERFORMED AS DIRECTED BY THE FIELD ENGINEER.

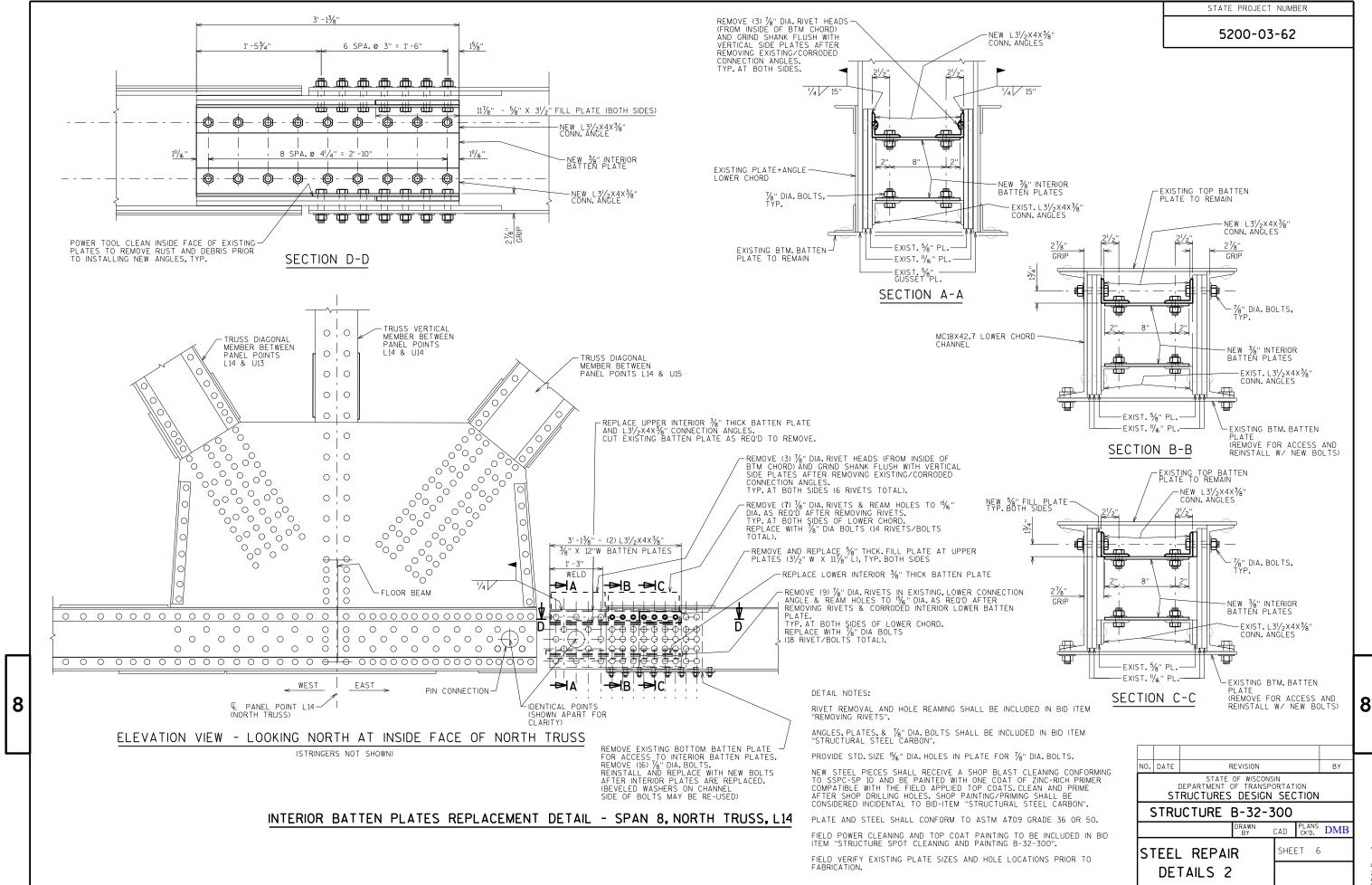
ALL SURFACE REPAIR AREAS SHALL BE DEFINED BY 1/2" MIN. SAWCUT.

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	(STRUCTURE B-32-300 DRAWN CAD PLANS CKYD.								
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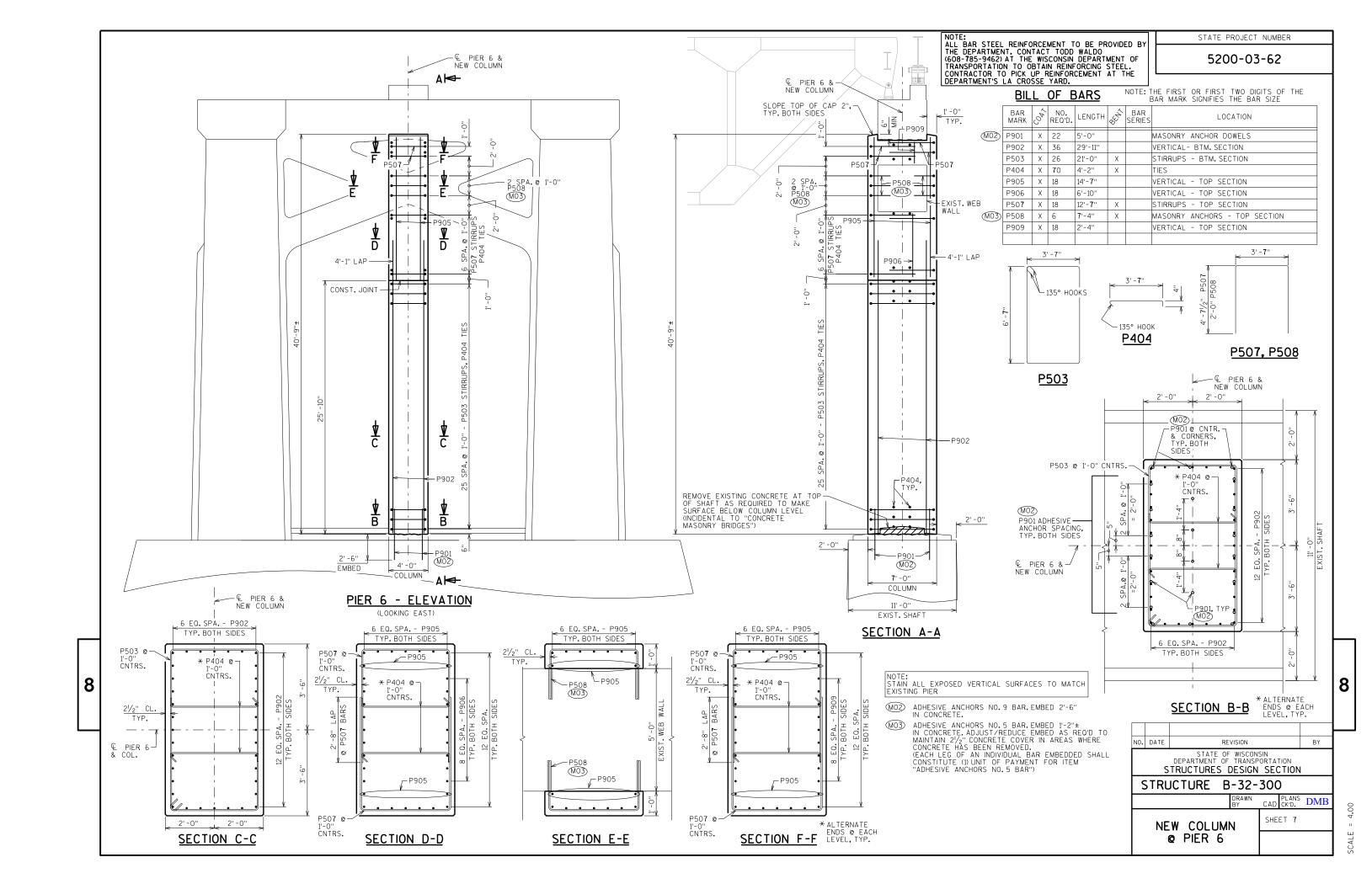
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SCALE = 10





SCALE = 1





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