

PROJECT ID: 1227-08-76

COUNTY: BROWN

ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details
Section No. 3	Estimate of Quantities
Section No. 3	Miscellaneous Quantities
Section No. 4	Right of Way Plat
Section No. 5	Plan
Section No. 6	Standard Detail Drawings
Section No. 7	Sign Plates
Section No. 8	Structure Plans
Section No. 9	Computer Earthwork Data
Section No. 9	Cross Sections

TOTAL SHEETS =



DESIGN DESIGNATION

A.A.D.T.	2020	=	51,900
A.A.D.T.	2040	=	63,600
D.H.V.		=	4,007
D.D.		=	56/44
T.		=	7.7%
DESIGN SPEED		=	70 MPH
ESALS		=	8,800,000

CONVENTIONAL SYMBOLS

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

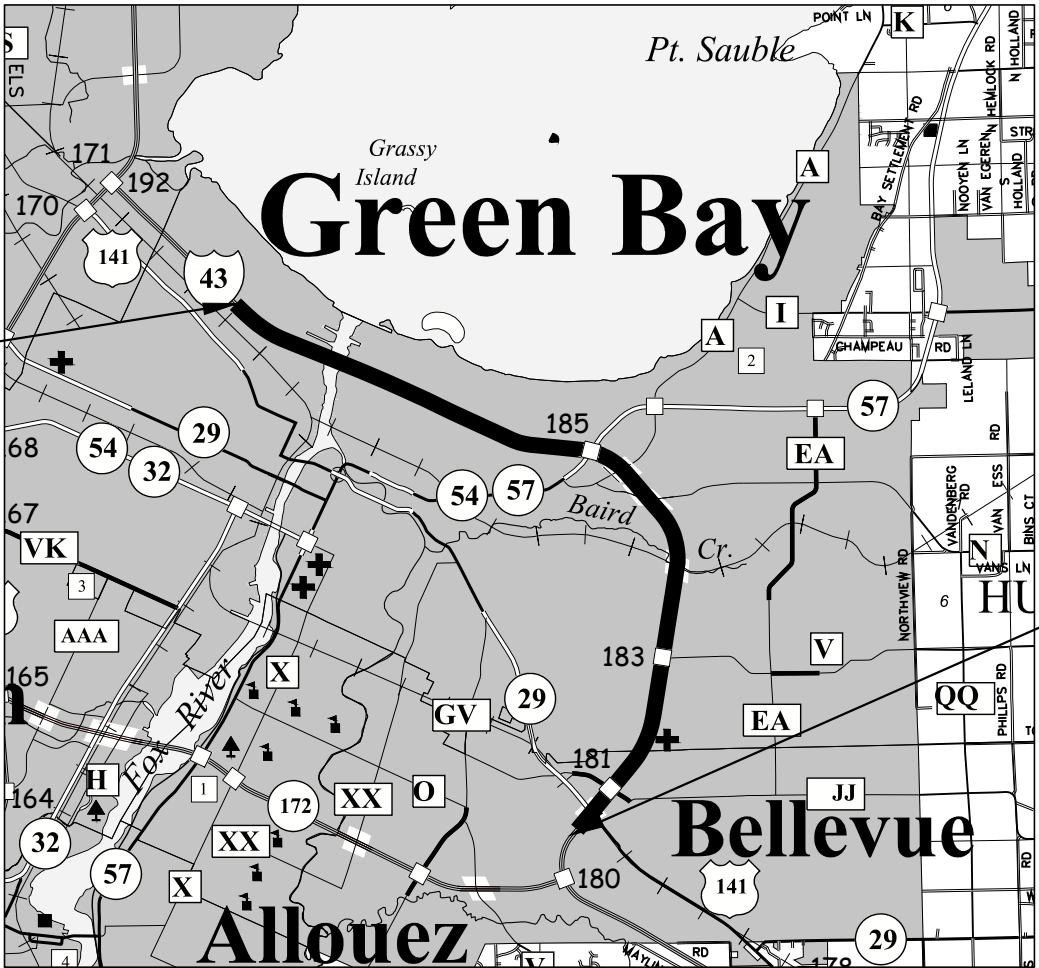
PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

ROCK	
LABEL	
95.36	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT
MANITOWOC - GREEN BAY
STH 172 - ATKINSON DRIVE
IH 43
BROWN COUNTY

STATE PROJECT NUMBER
1227-08-76

END PROJECT 1227-08-73
STA 3829+01.23'NB'
X=93537.0095
Y=580042.7979



LAYOUT
SCALE 0 1 MI. 2 MI.
TOTAL NET LENGTH OF CENTERLINE = 10.029 MI.

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, BROWN COUNTY, NAD83 (2007), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1227-08-76		

90% PLANS
October 31, 2019

BEGIN PROJECT 1227-08-73
STA 3321+50.00'NB'
X=113890.3143
Y=546940.0797

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
PREPARED BY	
Surveyor	NE REGION
Designer	KIMBERLY SLEZAK
Project Manager	BRIAN HAEN
Regional Examiner	
Regional Supervisor	CHAD DEGRAVE
APPROVED FOR THE DEPARTMENT	
DATE:	(Signature)

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND ALL OTHER UTILITIES IN THE VICINITY OF THE PROJECT TO LOCATE THEIR FACILITIES AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING WORK.

WETLANDS ARE PRESENT IN SEVERAL AREAS ADJACENT TO THE PROJECT. DO NOT OPERATE EQUIPMENT OUTSIDE OF THE SLOPE INTERCEPTS IN WETLAND AREAS UNLESS DIRECTED BY THE ENGINEER.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN ARE APPROXIMATE AND SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

DIGGERS



HOTLINE

Dial  or (800)242-8511

www.DiggersHotline.com

DNR AREA LIAISON

JAMES DOPERALSKI, JR.
DEPARTMENT OF NATURAL RESOURCES
NORTHEAST REGION
2984 SHAWANO AVE
GREEN BAY, WI 54313
920-662-5119
JAMES.DOPERALSKI@WISCONSIN.GOV

COUNTY SURVEYOR OR SURVEYS CONTACT PERSON

CORMAC MCINNIS
944 VANDERPERREN WAY
GREEN BAY, WI 54304
PHONE: 920-492-5638
EMAIL: CORMAC.MCINNIS@DOT.WI.GOV

UTILITIES

Matt Hischke
ANR Pipeline Company - Gas/Petroleum
N4956 Oakcrest Dr
Bonduel, WI 54107
(715) 758-3345
(715) 460-4042
matthew_hischke@transcanada.com

Joseph Kassab
AT&T Wisconsin - Communication Line
221 West Washington St
Appleton, WI 54911-4742
(920) 735-3206
jk572k@att.com

Anthony Marciniak
ATC Management, Inc. - Electricity
W 234 N2000 Ridgeview Parkway Ct
Waukesha, WI 53188-1000
(262) 506-6814
amarciniak@atcinc.com

Dan Becker (Multimedia
Communications and Engineering)
Brown County Technology Services -
Communication Line
PO Box 11064
Green Bay, WI 54307-1064
(920) 676-3496
dbecker@mcae.biz

Robert Michaelson
Central Brown County Water
Authority - Water
1303 S 8th St
P.O. Box 1090
Manitowoc, WI 54221-1090
(920) 686-4354
r/michaelson@mpu.org

Ross Hartwig
CenturyLink - Communication Line
256 Leffert St
Berlin, WI 54923
(920) 361-8425
ross.hartwig@centurylink.com

Matt Heckenlable
City of Green Bay - Sewer
100 N Jefferson ST
Green Bay, WI 54301
(920) 448-3100
matthe@greenbaywi.gov

Brian Powell
Green Bay Water Utility
631 S Adams St, P.O. Box 1210
Green Bay, WI 54305-1210
(920) 448-3480
brianpo@greenbaywi.gov

Mark Pansier
Ledgeview Sanitary District #2 - Sewer
3700 Dickinson Rd
De Pere, WI 54115
(920) 336-3360
mpansier@ledgeviewwiscnsin.com

Dennis Rues
McLeod USA Telecommunication Services Inc
- Communication Line
13935 Bishops Dr
Brookfield, WI 53005
(812) 456-1249
dennis.ruess@windstream.com

Dennis La Fave
Net Lec LLC - Communication Line
1700 Industrial Dr
Green Bay, WI 54302
(920) 619-9774
dlafave@ml-tech.us

Vince Albin
Time Warner Cable - Communication Line
3520 E Destination Dr
Appleton, WI 54915
(920) 831-9249
vince.albin@twcable.com

Casey Schwandt
West Shore Pipe Line Company -
Gas/Petroleum
2119 North Quincy Street
Green Bay, WI 54302
(920) 432-3223
cschwandt@buckeye.com

Bill Balke
Village of Bellevue - Sewer
2828 Allouez Ave
Green Bay, WI 54311-6644
(920) 468-5225
billb@villageofbellevue.org

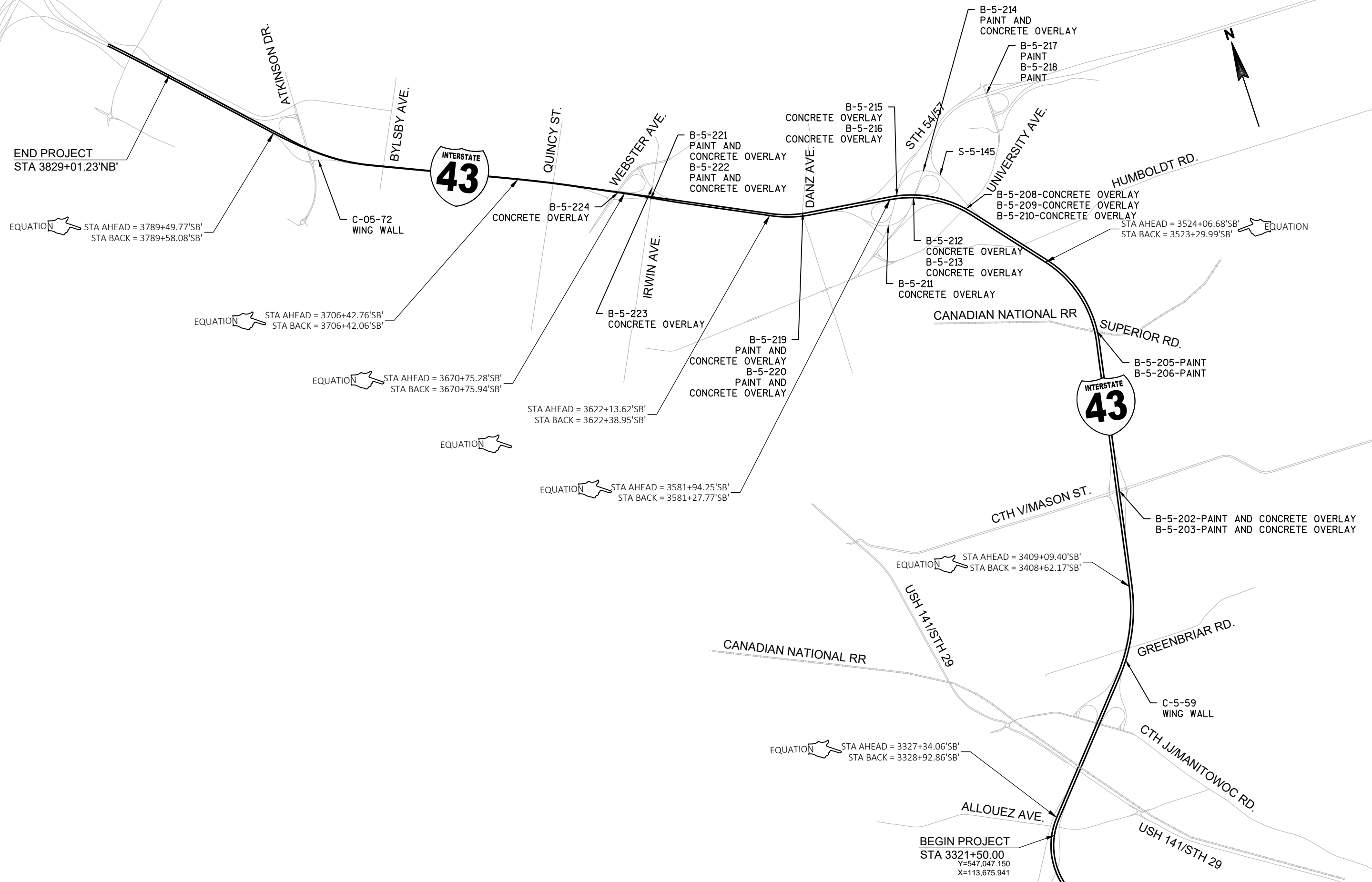
Bill Balke
Village of Bellevue - Water
2828 Allouez Ave
Green Bay, WI 54311-6644
(920) 468-5225
billb@villageofbellevue.org

David Retzlaff
Wisconsin Public Service
Corporation - Gas/Petroleum
2850 S Ashland Ave
Green Bay, WI 54304
(920) 617-5237
(920) 604-1861
dpretzlaff@wisconsinpublicservice.com

Randy Steler
Wisconsin Public Service
Corporation - Electricity
2850 S. Ashland Ave
Green Bay, WI 54307
(920) 617-5167
(920) 655-1596
RDSteler@wisconsinpublicservice.com

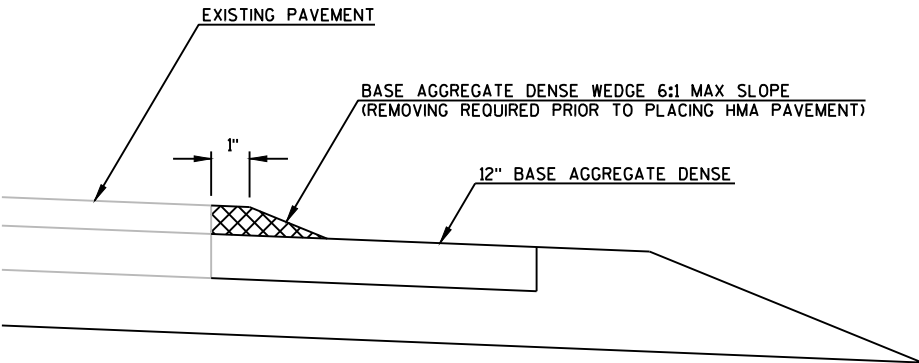
Craig Berndt
Village of Allouez Department of
Public Works - Water
1900 Libal St
Green Bay, WI 54301
(920) 448-2800
craig@villageofallouez.com

Craig Berndt
Village of Allouez Department of
Public Works - Sewer
1900 Libal St
Green Bay, WI 54301
(920) 448-2800
craig@villageofallouez.com



BRIDGE DECK OVERLAY CONSTRUCTION STAGING NARRATIVE:

- + STAGE 1
 - UTILIZE SINGLE LANE CLOSURES TO COMPLETE OUTSIDE SHOULDER IMPROVEMENTS AT IH 43 NB AND SB BRIDGE STRUCTURES UTILIZE FULL RAMP CLOSURES TO COMPLETE CONCRETE BRIDGE DECK OVERLAYS ON STRUCTURES B-5-211 & B-5-223 & B-5-214
- + STAGE 2
 - SHIFT TRAFFIC TO OUTSIDE LANES AND UTILIZE SINGLE LANE CLOSURES TO COMPLETE INSIDE HALF OF CONCRETE BRIDGE DECK OVERLAYS ON IH 43 NB AND SB STRUCTURES UTILIZE FULL RAMP CLOSURES TO COMPLETE CONCRETE BRIDGE DECK OVERLAYS ON STRUCTURES B-5-210
- + STAGE 3
 - SHIFT TRAFFIC TO INSIDE LANES AND UTILIZE SINGLE LANE CLOSURES TO COMPLETE OUTSIDE HALF OF CONCRETE BRIDGE DECK OVERLAYS ON IH 43 NB AND SB STRUCTURES.
 - COMPLETE CONCRETE OVERLAYS AND RETURN NORMAL TRAFFIC FLOW ACROSS ALL MAINLINE AND RAMP STRUCTURES EXCEPT FOR B-5-219, B-5-221, B-5-222, AND B-5-224 AT THE COMPLETION OF STAGE 3
- + STAGE 4
 - COMPLETE CONCRETE BRIDGE DECK OVERLAYS ON B-5-219, B-5-221, B-5-222, AND B-5-224 AND RETURN TRAFFIC TO NORMAL TRAFFIC PATTERNS



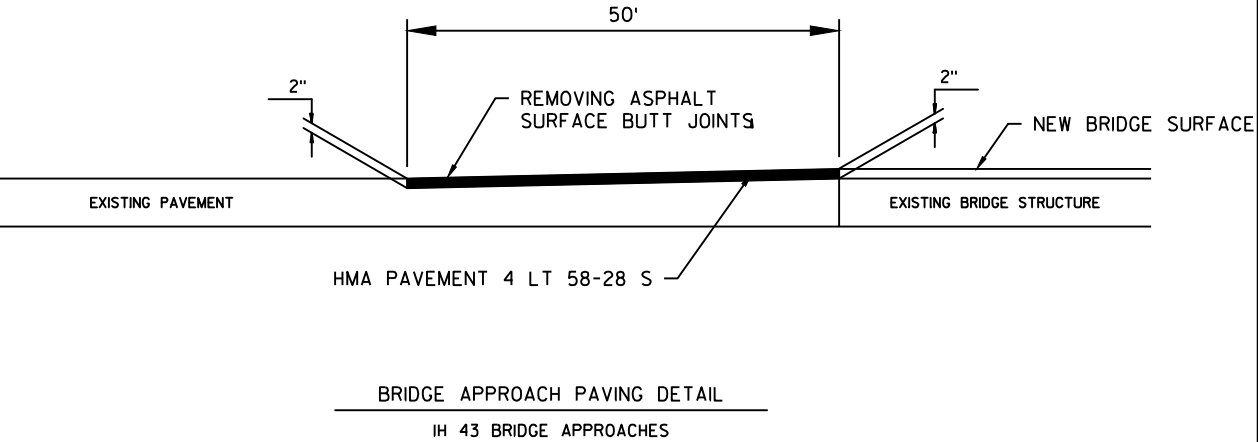
PLACE WEDGE OF BASE AGGREGATE DENSE AT DROP OFF BETWEEN EDGE OF EXISTING PAVEMENT AND LOWER 12" BASE AGGREGATE DENSE.

WEDGE INSTALLATION AND REMOVAL IS INCIDENTAL TO THE BASE
AGGREGATE DENSE STANDARD BID ITEM.

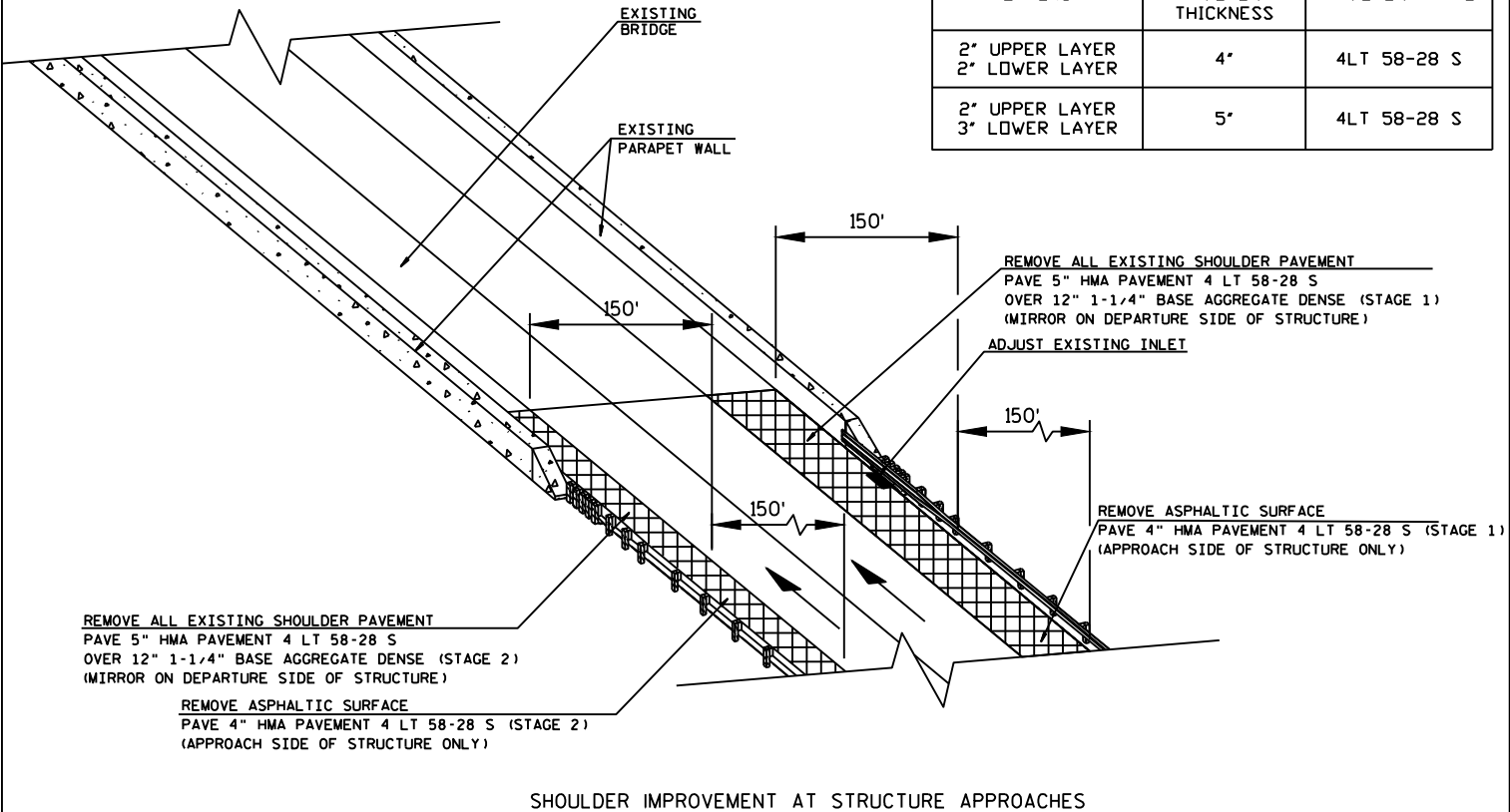
INSTALL AS DIRECTED BY THE ENGINEER.

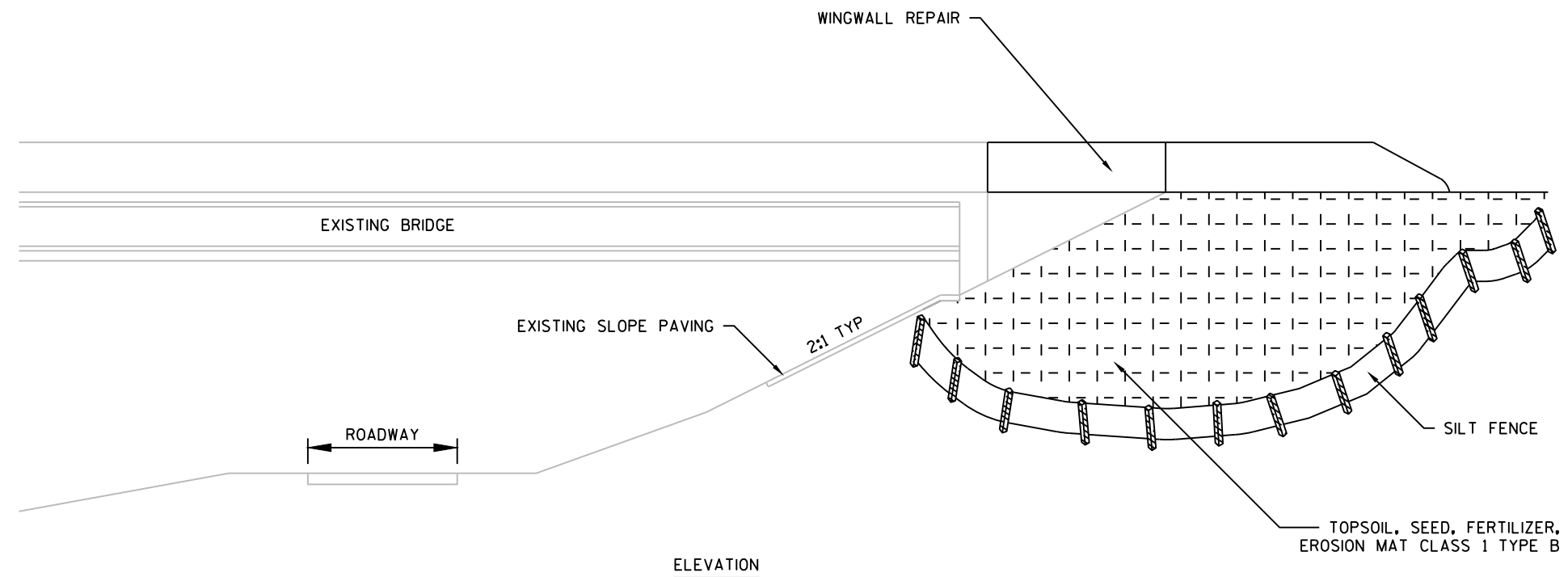
SAFETY WEDGE

(NOT TO SCALE)



LAYERS	TOTAL LAYER PAVEMENT THICKNESS	PAVEMENT TYPE
2" UPPER LAYER 2" LOWER LAYER	4"	4LT 58-28 S
2" UPPER LAYER 3" LOWER LAYER	5"	4LT 58-28 S



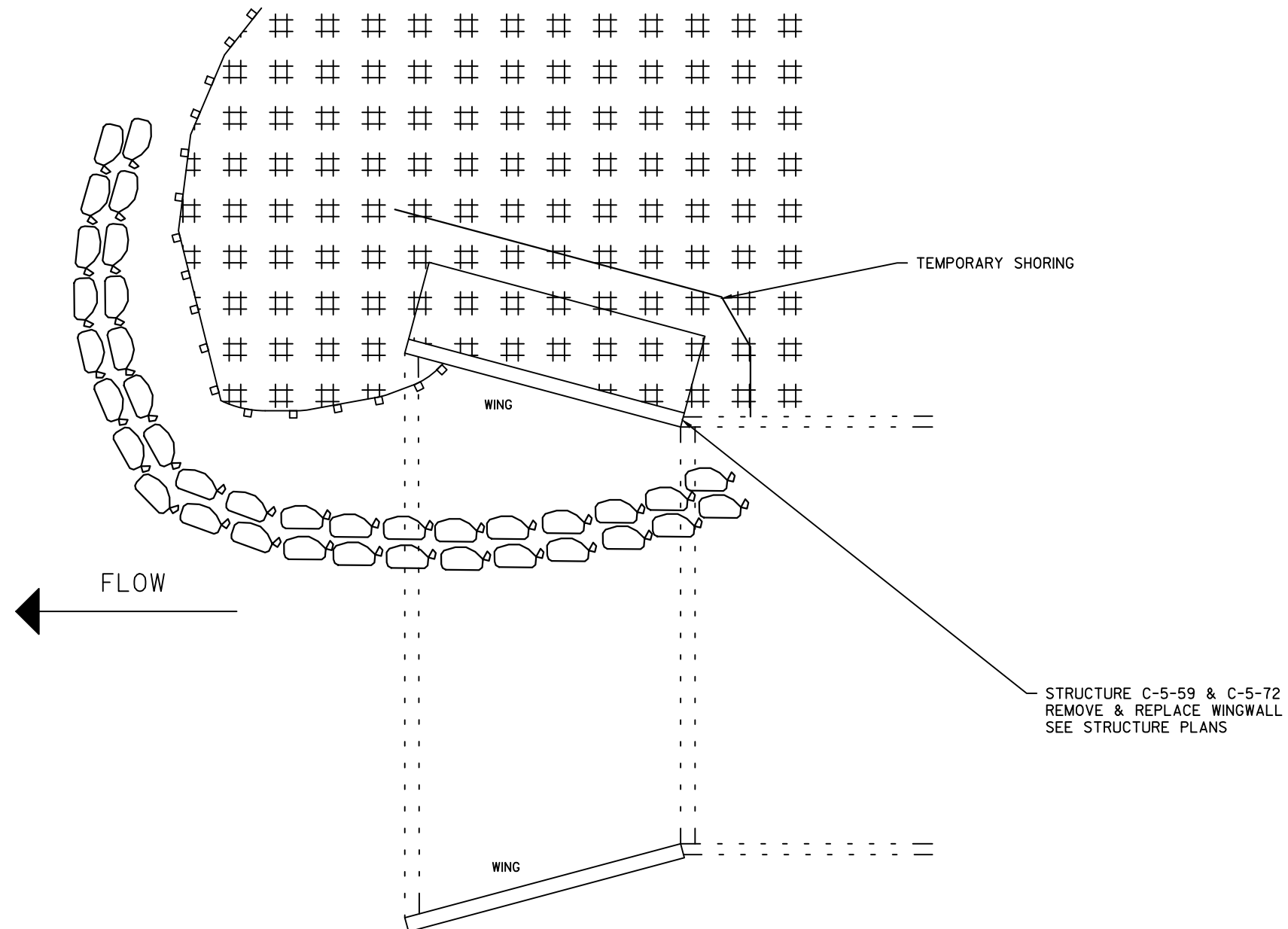


EROSION CONTROL AT WINGWALL REPAIRS

STA 3572+50'NB' B-5-213 SE WINGWALL
STA 3578+52'SB' B-5-215 SE WINGWALL
STA 3578+54'NB' B-5-216 SE WINGWALL

NOTES:
SANDBAGS SHALL BE INCIDENTAL TO THE REMOVING OLD
STRUCTURE BID ITEMS.

STACK SANDBAGS TO A HEIGHT AND LENGTH NECESSARY
TO PROTECT THE WINGWALL WORKZONE FROM THE FLOW
OF WATER.

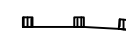


EROSION CONTROL AT C-5-59 & C-5-72 WINGWALL REPAIRS

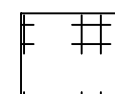
LEGEND



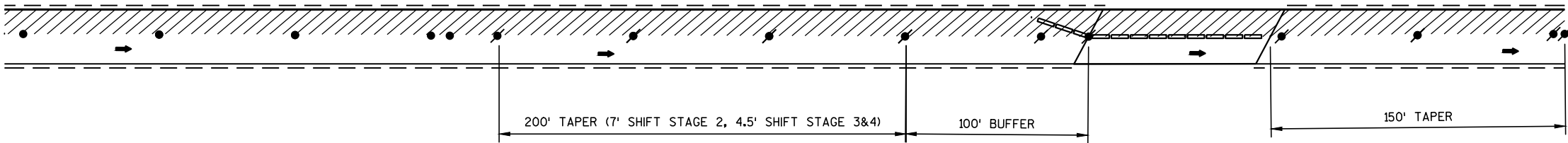
SANDBAGS



SILT FENCE



EROSION MAT CLASS 1
TYPE B



STAGE 2, 3, AND 4 FOR IH 43 AT STRUCTURES

NORTHBOUND	SOUTHBOUND
B-5-203	B-5-202
B-5-209	B-5-208
B-5-213	B-5-212
B-5-216	B-5-215
B-5-220	B-5-219**
B-5-222**	B-5-221**
B-5-224**	B-5-224**

GENERAL NOTES

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

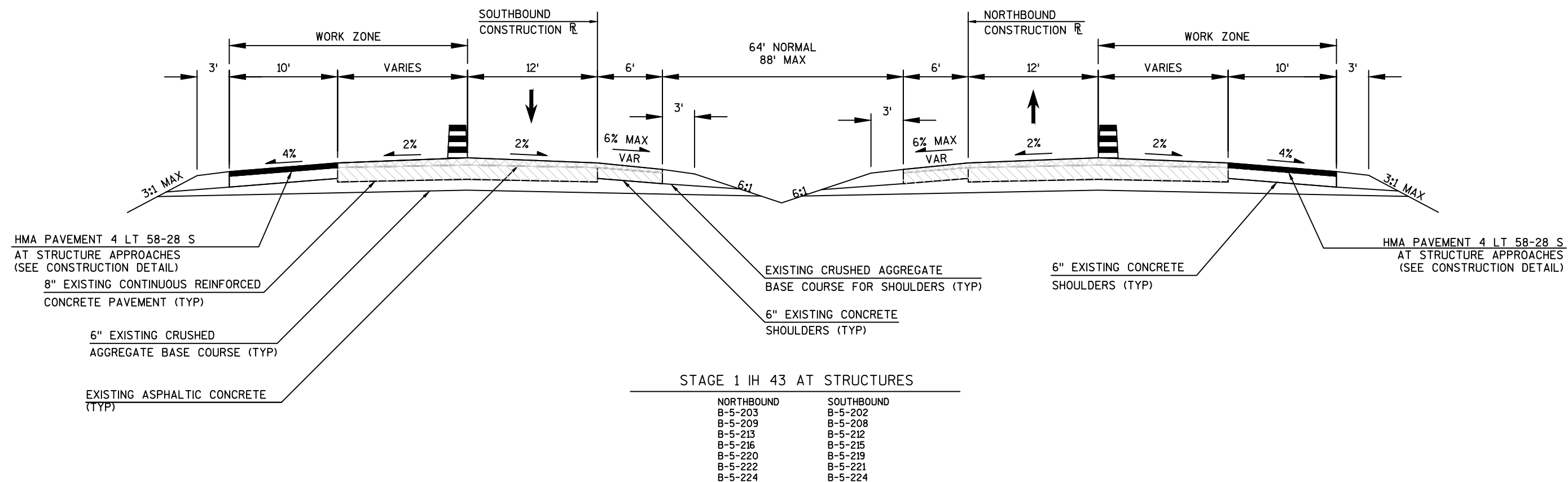
THIS LANE CLOSURE IS TYPICAL FOR CLOSING LEFT LANE (STAGE 2) - REVERSE FOR CLOSING RIGHT LANE (STAGE 3 & 4).

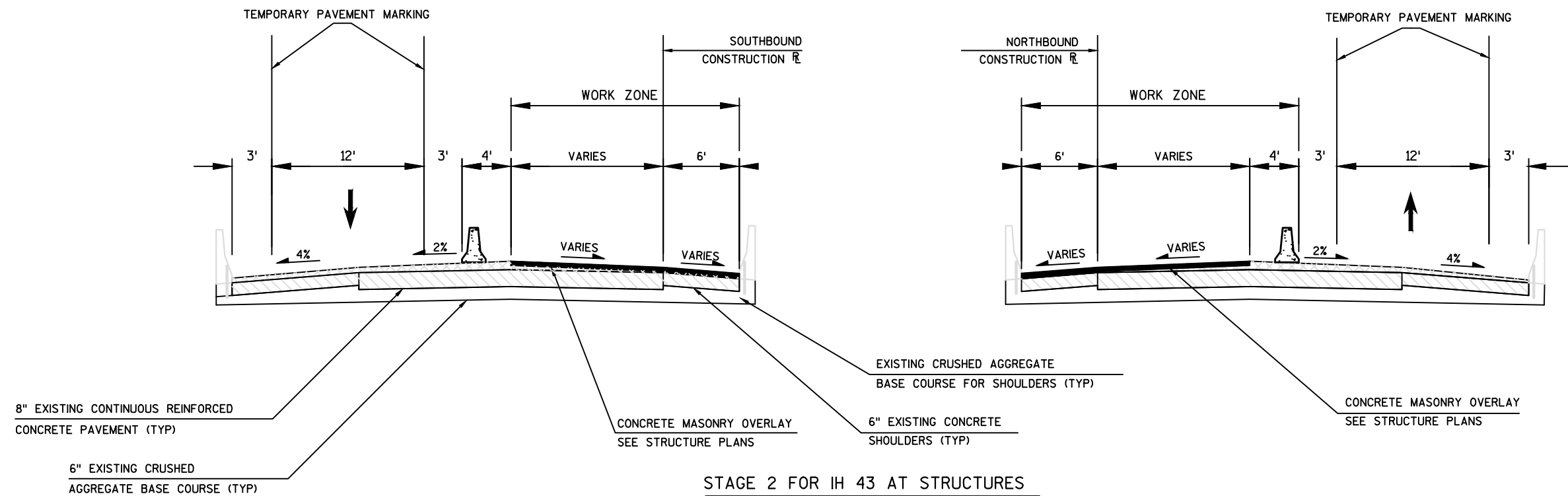
**ONLY STRUCTURES B-5-219, B-5-221, B-5-222, & B-5-224 ARE ALLOWED TO UTILIZE LANE CLOSURES IN STAGE 4. ALL OTHER BRIDGE STRUCTURES MUST BE COMPLETELY OPEN TO TRAFFIC AT THE CONCLUSION OF STAGE 3.

LEGEND

- TRAFFIC CONTROL DRUM
- ⚡ TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- CONCRETE BARRIER TEMPORARY PRECAST
- ▨ WORK AREA
- ➡ DIRECTION OF TRAFFIC

NOTE: THE LANE CLOSURE SETUP
IS TO FOLLOW SDD TRAFFIC
CONTROL, LANE CLOSURE, SPEED
REDUCTION.



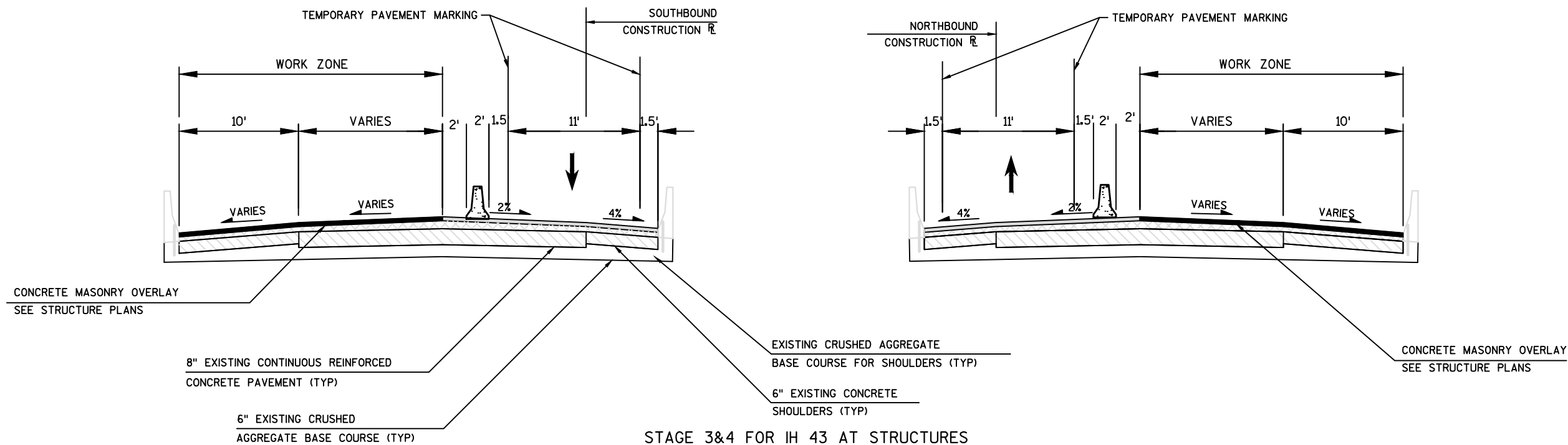


STAGE 2 FOR IH 43 AT STRUCTURES

NORTHBOUND	SOUTHBOUND
B-5-203	B-5-202
B-5-209	B-5-208
B-5-213	B-5-212
B-5-216	B-5-215
B-5-220	B-5-219
B-5-222	B-5-221
B-5-224	B-5-224

SEE INDIVIDUAL STRUCTURE PLANS FOR MORE INFORMATION

SEE BRIDGE APPROACH PAVING DETAIL FOR MORE INFORMATION



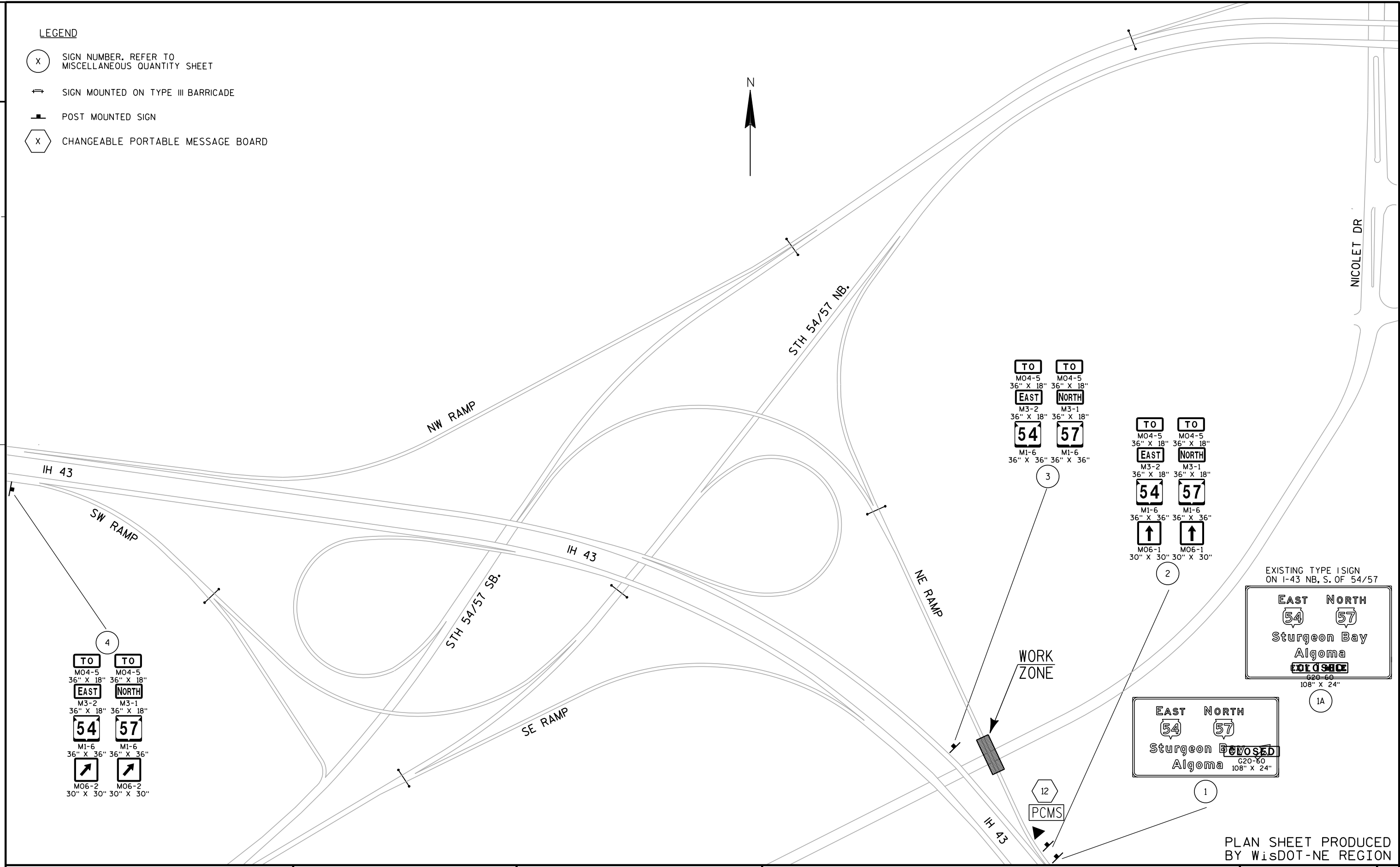
STAGE 3&4 FOR IH 43 AT STRUCTURES

NORTHBOUND	SOUTHBOUND
B-5-203	B-5-202
B-5-209	B-5-208
B-5-213	B-5-212
B-5-216	B-5-215
B-5-220	B-5-219*
B-5-222*	B-5-221*
B-5-224*	B-5-224*

*ONLY STRUCTURES B-5-219, B-5-221, B-5-222, AND B-5-224 ARE ALLOWED LANE CLOSURES IN STAGE 4. ALL OTHER BRIDGE STRUCTURES MUST BE COMPLETELY OPEN TO TRAFFIC AT THE CONCLUSION OF STAGE 3
SEE INDIVIDUAL STRUCTURE PLANS FOR MORE INFORMATION

SEE BRIDGE APPROACH PAVING DETAIL FOR MORE INFORMATION

- LEGEND
- (X) SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET
 - ⇄ SIGN MOUNTED ON TYPE III BARRICADE
 - ┐ POST MOUNTED SIGN
 - (X) CHANGEABLE PORTABLE MESSAGE BOARD



4

TO	TO
M04-5	M04-5
36" X 18"	36" X 18"
EAST	NORTH
M3-2	M3-1
36" X 18"	36" X 18"
54	57
M1-6	M1-6
36" X 36"	36" X 36"
M06-2	M06-2
30" X 30"	30" X 30"

3

TO	TO
M04-5	M04-5
36" X 18"	36" X 18"
EAST	NORTH
M3-2	M3-1
36" X 18"	36" X 18"
54	57
M1-6	M1-6
36" X 36"	36" X 36"

2

TO	TO
M04-5	M04-5
36" X 18"	36" X 18"
EAST	NORTH
M3-2	M3-1
36" X 18"	36" X 18"
54	57
M1-6	M1-6
36" X 36"	36" X 36"
M06-1	M06-1
30" X 30"	30" X 30"

EXISTING TYPE 1 SIGN
ON I-43 NB, S. OF 54/57

EAST	NORTH
54	57
Sturgeon Bay	
Algoma	
CLOSED	
G20-60	
108" X 24"	

1A

1

EAST	NORTH
54	57
Sturgeon Bay	
Algoma	
CLOSED	
G20-60	
108" X 24"	

12

PCMS

LEGEND

- (X) SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET
- (↔) SIGN MOUNTED ON TYPE III BARRICADE
- (■) POST MOUNTED SIGN
- (X) CHANGEABLE PORTABLE MESSAGE BOARD

TO TO
M04-5 M04-5
36" X 18" 36" X 18"
EAST NORTH
M3-2 M3-1
36" X 18" 36" X 18"
54 57
M1-6 M1-6
36" X 36" 36" X 36"

6

TO TO
M04-5 M04-5
24" X 12" 24" X 12"
EAST NORTH
M3-2 M3-1
24" X 12" 24" X 12"
54 57
M1-6 M1-6
24" X 24" 24" X 24"
← ←
M06-1 M06-1
21" X 21" 21" X 21"

11

TO TO
M04-5 M04-5
36" X 18" 36" X 18"
EAST NORTH
M3-2 M3-1
36" X 18" 36" X 18"
54 57
M1-6 M1-6
36" X 36" 36" X 36"
↗ ↗
M05-2R M05-2R
30" X 30" 30" X 30"

5

TO TO
M04-5 M04-5
36" X 18" 36" X 18"
EAST NORTH
M3-2 M3-1
36" X 18" 36" X 18"
54 57
M1-6 M1-6
36" X 36" 36" X 36"
↗ ↗
M06-2 M06-2
30" X 30" 30" X 30"

7

TO TO
M04-5 M04-5
24" X 12" 24" X 12"
EAST NORTH
M3-2 M3-1
24" X 12" 24" X 12"
54 57
M1-6 M1-6
24" X 24" 24" X 24"
← ←
M05-1L M05-1L
21" X 21" 21" X 21"

8

TO TO
M04-5 M04-5
24" X 12" 24" X 12"
EAST NORTH
M3-2 M3-1
24" X 12" 24" X 12"
54 57
M1-6 M1-6
24" X 24" 24" X 24"
← ←
M06-1 M06-1
21" X 21" 21" X 21"

9

TO TO
M04-5 M04-5
24" X 12" 24" X 12"
EAST NORTH
M3-2 M3-1
24" X 12" 24" X 12"
54 57
M1-6 M1-6
24" X 24" 24" X 24"
← ←
M05-1L M05-1L
21" X 21" 21" X 21"

10

TRAFFIC CONTROL DETOUR SIGN SUMMARY - NE RAMP CLOSURE

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 45 DAYS	643.0900 SIGNS DAYS	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	REMARKS
	I-43 NB RAMP TO STH 54/57							
1	I-43, AT STH 54/57 RAMP, PLACE ON EXISTING TYPE I SIGN	G 20-60	108"x24"	1	45	45		
1A	I-43, S. OF STH 54/57, PLACE ON EXISTING ADVANCED TYPE I SIGN	G 20-60	108"x24"	1	45	45		
2	I-43, AT STH 54/57 RAMP, PLACE 200' N. OF EXISTING TYPE I SIGN	MO 4-5	36"x18"	1	45	45		
	"	M 3-2	36"x18"	1	45	45		
	"	M 1-6	36"x36"	1	45	45		54
	"	MO 6-1	30"x30"	1	45	45		AHEAD
	"	MO 4-5	36"x18"	1	45	45		
	"	M 3-1	36"x18"	1	45	45		
	"	M 1-6	36"x36"	1	45	45		57
	"	MO 6-1	30"x30"	1	45	45		AHEAD
3	I-43, N. OF STH 54/57 OFF-RAMP, PLACE 200' N. OF UNIVERSITY AVE STRUCTURE	MO 4-5	36"x18"	1	45	45		
	"	M 3-2	36"x18"	1	45	45		
	"	M 1-6	36"x36"	1	45	45		54
	"	MO 4-5	36"x18"	1	45	45		
	"	M 3-1	36"x18"	1	45	45		
	"	M 1-6	36"x36"	1	45	45		57
4	I-43, N. OF STH 54/57 OFF-RAMP, PLACE AT TAPER POINT TO OFF-RAMP TO STH 54/57	MO 4-5	36"x18"	1	45	45		
	"	M 3-2	36"x18"	1	45	45		
	"	M 1-6	36"x36"	1	45	45		54
	"	MO 6-2	30"x30"	1	45	45		TILT RIGHT
	"	MO 4-5	36"x18"	1	45	45		
	"	M 3-1	36"x18"	1	45	45		
	"	M 1-6	36"x36"	1	45	45		57
	"	MO 6-2	30"x30"	1	45	45		TILT RIGHT
5	I-43, S. OF WEBSTER AVE OFF-RAMP, PLACE 1/4 MILE S. OF OFF-RAMP TO WEBSTER AVE	MO 4-5	36"x18"	1	45	45		
	"	M 3-2	36"x18"	1	45	45		
	"	M 1-6	36"x36"	1	45	45		54
	"	MO 5-2R	30"x30"	1	45	45		
	"	MO 4-5	36"x18"	1	45	45		
	"	M 3-1	36"x18"	1	45	45		
	"	M 1-6	36"x36"	1	45	45		57
	"	MO 5-2R	30"x30"	1	45	45		
6	I-43, S. OF WEBSTER AVE ON-RAMP, PLACE RIGHT OF EXISTING R2-1 SIGN S. OF ON-RAMP TO WEBSTER AVE	MO 4-5	36"x18"	1	45	45		
	"	M 3-2	36"x18"	1	45	45		
	"	M 1-6	36"x36"	1	45	45		54
	"	MO 4-5	36"x18"	1	45	45		
	"	M 3-1	36"x18"	1	45	45		
	"	M 1-6	36"x36"	1	45	45		57
7	I-43, S. OF WEBSTER AVE OFF-RAMP, PLACE 100' S. OF OFF-RAMP TO WEBSTER AVE	MO 4-5	36"x18"	1	45	45		
	"	M 3-2	36"x18"	1	45	45		
	"	M 1-6	36"x36"	1	45	45		54
	"	MO 6-2	30"x30"	1	45	45		TILT RIGHT
	"	MO 4-5	36"x18"	1	45	45		
	"	M 3-1	36"x18"	1	45	45		
	"	M 1-6	36"x36"	1	45	45		57
	"	MO 6-2	30"x30"	1	45	45		TILT RIGHT

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

PAGE SUBTOTALS

462,0700

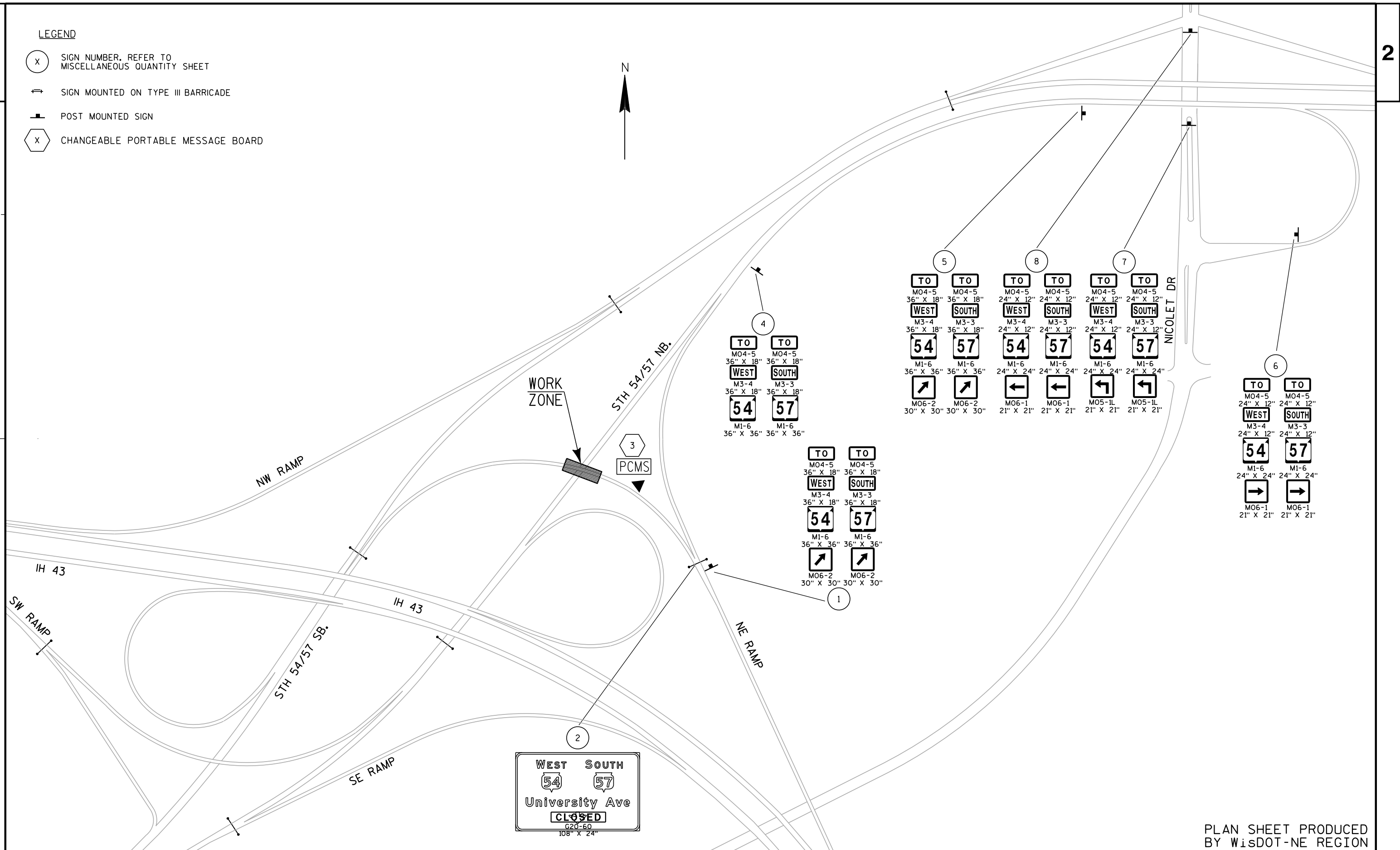
TRAFFIC CONTROL DETOUR SIGN SUMMARY - NE RAMP CLOSURE

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 45 DAYS	643.0900 SIGNS DAYS	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	REMARKS
8	I-43 OFF-RAMP TO WEBSTER AVE, PLACE 600' PRIOR TO WEBSTER AVE ON OFF-RAMP	MO 4-5	24"x12"	1	45	45		
	"	M 3-2	24"x12"	1	45	45		
	"	M 1-6	24"x24"	1	45	45		54
	"	MO 5-1L	21"x21"	1	45	45		
	"	MO 4-5	24"x12"	1	45	45		
	"	M 3-1	24"x12"	1	45	45		
	"	M 1-6	24"x24"	1	45	45		57
	"	MO 5-1L	21"x21"	1	45	45		
9	I-43 OFF-RAMP TO WEBSTER AVE, PLACE 200' PRIOR TO WEBSTER AVE ON OFF-RAMP	MO 4-5	24"x12"	1	45	45		
	"	M 3-2	24"x12"	1	45	45		
	"	M 1-6	24"x24"	1	45	45		54
	"	MO 6-1	21"x21"	1	45	45		LEFT
	"	MO 4-5	24"x12"	1	45	45		
	"	M 3-1	24"x12"	1	45	45		
	"	M 1-6	24"x24"	1	45	45		57
	"	MO 6-1	21"x21"	1	45	45		LEFT
10	WEBSTER AVE, N. OF I-43 SB RAMP TERMINI, PLACE 750' N. OF RAMP TERMINI INTERSECTION	MO 4-5	24"x12"	1	45	45		
	"	M 3-2	24"x12"	1	45	45		
	"	M 1-6	24"x24"	1	45	45		54
	"	MO 5-1L	21"x21"	1	45	45		
	"	MO 4-5	24"x12"	1	45	45		
	"	M 3-1	24"x12"	1	45	45		
	"	M 1-6	24"x24"	1	45	45		57
	"	MO 5-1L	21"x21"	1	45	45		
11	WEBSTER AVE, N. OF I-43 SB RAMP TERMINI, PLACE 100' N. OF RAMP TERMINI INTERSECTION	MO 4-5	24"x12"	1	45	45		
	"	M 3-2	24"x12"	1	45	45		
	"	M 1-6	24"x24"	1	45	45		54
	"	MO 6-1	21"x21"	1	45	45		LEFT
	"	MO 4-5	24"x12"	1	45	45		
	"	M 3-1	24"x12"	1	45	45		
	"	M 1-6	24"x24"	1	45	45		57
	"	MO 6-1	21"x21"	1	45	45		LEFT
12	I-43, AT OFF-RAMP TO STH 54/57, PLACE ON RIGHT SHOULDER, FIELD DETERMINED	PCMS		1			7	PLACE PRIOR TO FULL CLOSURE
PAGE SUBTOTALS				33		1,440	7	
NE RAMP CLOSURE TOTALS				79		3,510	7	

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

LEGEND

- (X) SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET
- (BARRICADE) SIGN MOUNTED ON TYPE III BARRICADE
- (POST) POST MOUNTED SIGN
- (X) CHANGEABLE PORTABLE MESSAGE BOARD



PLAN SHEET PRODUCED
BY WISDOT-NE REGION

TRAFFIC CONTROL DETOUR SIGN SUMMARY - NW RAMP CLOSURE

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 25 DAYS	643.0900 SIGNS DAYS	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	REMARKS
	I-43 NB TO STH 54/57 W/S RAMP							
1	I-43 NB TO STH 54/57 RAMP, PLACE ON RIGHT COLUMN NEXT TO S-05-37	MO 4-5	36"x18"	1	25	25		
	"	M 3-4	36"x18"	1	25	25		
	"	M 1-6	36"x36"	1	25	25		54
	"	MO 6-2	30"x30"	1	25	25		TILT RIGHT
	"	MO 4-5	36"x18"	1	25	25		
	"	M 3-3	36"x18"	1	25	25		
	"	M 1-6	36"x36"	1	25	25		57
	"	MO 6-2	30"x30"	1	25	25		TILT RIGHT
2	I-43 NB TO STH 54/57 RAMP, PLACE ON TYPE I SIGN ON S-05-37 SIGN BRIDGE	G 20-60	108"x24"	1	25	25		
3	I-43 NB TO STH 54/57 RAMP, PLACE ON RIGHT SHOULDER PRIOR TO STRUCTURE B-05-214	PCMS		1			7	PLACE IN ADVANCE TO CLOSURE
4	STH 54/57, N. OF I-43, PLACE RIGHT OF EXISTING J4-2 SIGN	MO 4-5	36"x18"	1	25	25		
	"	M 3-4	36"x18"	1	25	25		
	"	M 1-6	36"x36"	1	25	25		54
	"	MO 4-5	36"x18"	1	25	25		
	"	M 3-3	36"x18"	1	25	25		
	"	M 1-6	36"x36"	1	25	25		57
5	STH 54/57, S. OF CTH A, PLACE LEFT OF EXISTING TYPE I GROUND MOUNT SIGN	MO 4-5	36"x18"	1	25	25		
	"	M 3-4	36"x18"	1	25	25		
	"	M 1-6	36"x36"	1	25	25		54
	"	MO 6-2	30"x30"	1	25	25		TILT RIGHT
	"	MO 4-5	36"x18"	1	25	25		
	"	M 3-3	36"x18"	1	25	25		
	"	M 1-6	36"x36"	1	25	25		57
	"	MO 6-2	30"x30"	1	25	25		TILT RIGHT
6	STH 54/57 RAMP TO CTH A, PLACE 400' PRIOR TO RAMP INTERSECTION	MO 4-5	36"x18"	1	25	25		
	"	M 3-4	36"x18"	1	25	25		
	"	M 1-6	36"x36"	1	25	25		54
	"	MO 6-1	30"x30"	1	25	25		RIGHT
	"	MO 4-5	36"x18"	1	25	25		
	"	M 3-3	36"x18"	1	25	25		
	"	M 1-6	36"x36"	1	25	25		57
	"	MO 6-1	30"x30"	1	25	25		RIGHT
7	CTH A, BETWEEN 54/57 RAMPS, PLACE IN MEDIAN S. OF STH 54/57	MO 4-5	24"x12"	1	25	25		
	"	M 3-4	24"x12"	1	25	25		
	"	M 1-6	24"x24"	1	25	25		54
	"	MO 5-1L	21"x21"	1	25	25		
	"	MO 4-5	24"x12"	1	25	25		
	"	M 3-3	24"x12"	1	25	25		
	"	M 1-6	24"x24"	1	25	25		57
	"	MO 5-1L	21"x21"	1	25	25		
8	CTH A, AT 54/57 W/S RAMP, PLACE IN MEDIAN ON BACKSIDE OF R4-7 SIGN	MO 4-5	36"x18"	1	25	25		
	"	M 3-4	36"x18"	1	25	25		
	"	M 1-6	36"x36"	1	25	25		54
	"	MO 6-1	30"x30"	1	25	25		LEFT
	"	MO 4-5	36"x18"	1	25	25		
	"	M 3-3	36"x18"	1	25	25		
	"	M 1-6	36"x36"	1	25	25		57
	"	MO 6-1	30"x30"	1	25	25		LEFT

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

NW RAMP CLOSURE TOTALS

481,1757

LEGEND

- (X) SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET
- ⇄ SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN
- (X) CHANGEABLE PORTABLE MESSAGE BOARD

HWY 54 EB
HWY 57 NB
RAMP CLOSED
USE EXIT 183

G20-56(MOD)
120" X 70"

PLACE 400' AFTER ADVANCED TYPE I
SIGN ON LEFT/RIGHT SHOULDERS

23

TO
M04-5
36" X 18"

TO
M04-5
36" X 18"

EAST
M3-2
36" X 18"

NORTH
M3-1
36" X 18"

54
M1-6
36" X 36"

57
M1-6
36" X 36"

↑
M06-1
30" X 30"

↑
M06-1
30" X 30"

EAST NORTH

54 57

Sturgeon Bay Algoma

CLOSED

G20-60
108" X 24"

COVER/MODIFY AS SHOWN

SP 36" X 12" 42" X 12"

WEST SOUTH

54 57

↑

1

COVER/MODIFY AS SHOWN

SP 36" X 12" 42" X 12"

WEST SOUTH

54 57

EXIT 3/4 MILE

TO
M04-5
36" X 18"

TO
M04-5
36" X 18"

EAST
M3-2
36" X 18"

NORTH
M3-1
36" X 18"

54
M1-6
36" X 36"

57
M1-6
36" X 36"

↗
M06-2
30" X 30"

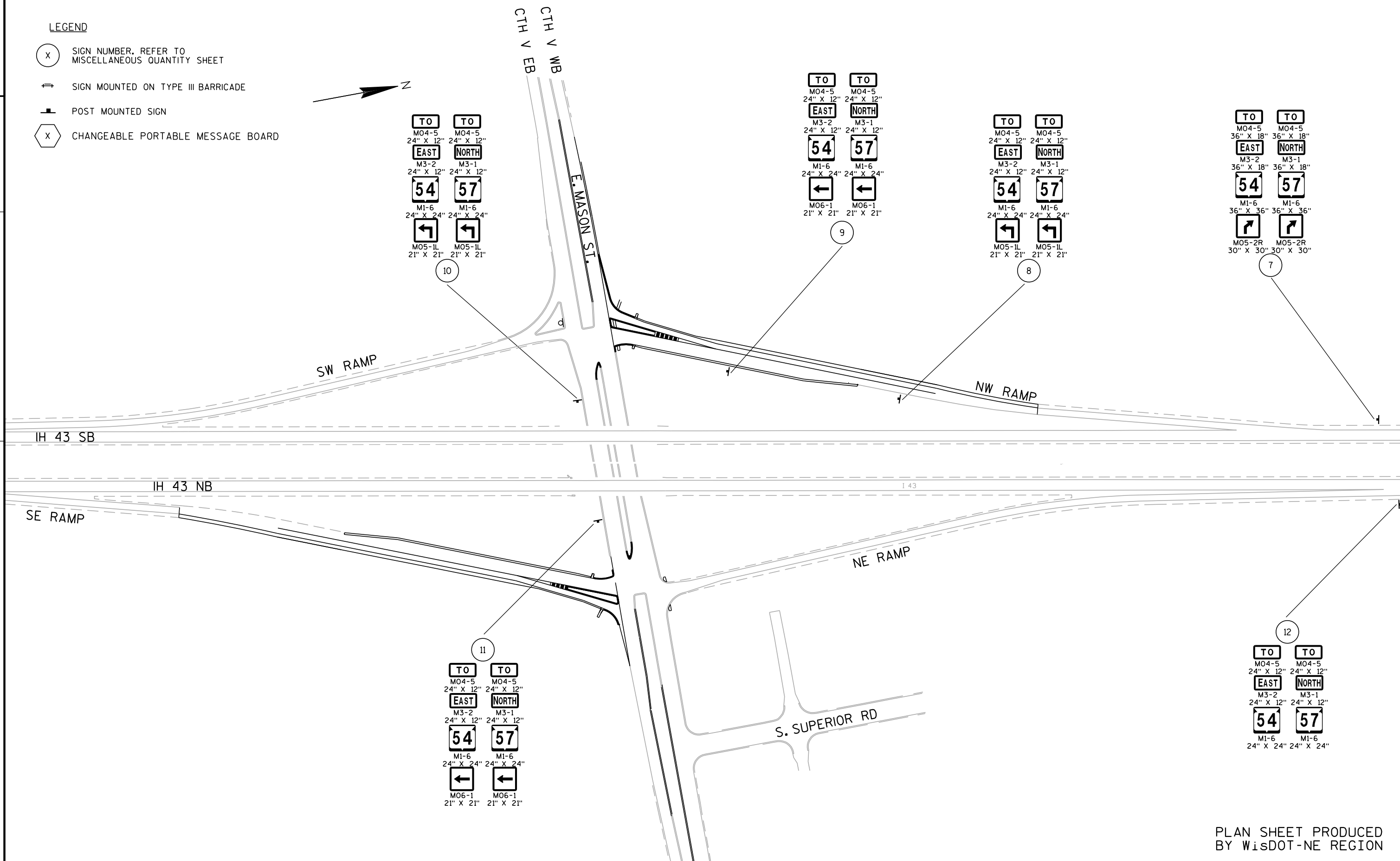
↗
M06-2
30" X 30"

13

PLAN SHEET PRODUCED
BY WISDOT-NE REGION

LEGEND

- | | |
|---|---|
|  | SIGN NUMBER. REFER TO
MISCELLANEOUS QUANTITY SHEET |
|  | SIGN MOUNTED ON TYPE III BARRICADE |
|  | POST MOUNTED SIGN |
|  | CHANGEABLE PORTABLE MESSAGE BOARD |



TRAFFIC CONTROL DETOUR SIGN SUMMARY - SE RAMP CLOSURE

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 45 DAYS	643.0900 SIGNS DAYS	643.1000 SIGNS FIXED MESSAGE SF	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO. OF CYCLES	643.0910 COVERING SIGNS TYPE I EACH	REMARKS
	I-43 SB RAMP TO STH 54/57 E/N										
1	I-43, S. OF WEBSTER AVE, MODIFY EXISTING TYPE I SIGN AS SHOWN	SP	36"x12"	1			3		1	1	WEST
	"	SP	42"x12"	1			3.5				SOUTH
2	I-43, S. OF WEBSTER AVE, PLACE 400' S. OF SIGN #1 LOCATION ON LEFT SHOULDER	G 20-56(MOD)	120"x70"	1			58.33				
3	I-43, S. OF WEBSTER AVE, PLACE 400' S. OF SIGN #1 LOCATION ON RIGHT SHOULDER	G 20-56(MOD)	120"x70"	1			58.33				
4	I-43, AT STH 54/57 OFF-RAMP, PLACE LEFT OF EXISTING TYPE I SIGN AT EXIT RAMP	MO 4-5	36"x18"	1	45	45					
	"	M 3-2	36"x18"	1	45	45					
	"	M 1-6	36"x36"	1	45	45					54
	"	MO 6-1	30"x30"	1	45	45					AHEAD
	"	MO 4-5	36"x18"	1	45	45					
	"	M 3-1	36"x18"	1	45	45					
	"	M 1-6	36"x36"	1	45	45					57
	"	MO 6-1	30"x30"	1	45	45					AHEAD
5	I-43, AT STH 54/57 OFF-RAMP, MODIFY EXISTING TYPE I SIGN AS SHOWN	SP	36"x12"	1			3		1	1	WEST
	"	SP	42"x12"	1			3.5				SOUTH
6	I-43 SB RAMP TO STH 54/57, MODIFY EXISTING OVERHEAD SIGN AS SHOWN	G 20-60	108"x24"	1	45	45					
7	I-43, AT OFF-RAMP TO MASON ST, PLACE LEFT OF EXISTING TYPE I SIGN	MO 4-5	36"x18"	1	45	45					
	"	M 3-2	36"x18"	1	45	45					
	"	M 1-6	36"x36"	1	45	45					54
	"	MO 5-2R	30"x30"	1	45	45					
	"	MO 4-5	36"x18"	1	45	45					
	"	M 3-1	36"x18"	1	45	45					
	"	M 1-6	36"x36"	1	45	45					57
	"	MO 5-2R	30"x30"	1	45	45					
8	I-43 OFF-RAMP TO MASON ST, PLACE 700' PRIOR TO MASON ST ON LEFT SIDE	MO 4-5	24"x12"	1	45	45					
	"	M 3-2	24"x12"	1	45	45					
	"	M 1-6	24"x24"	1	45	45					54
	"	MO 5-1L	21"x21"	1	45	45					
	"	MO 4-5	24"x12"	1	45	45					
	"	M 3-1	24"x12"	1	45	45					
	"	M 1-6	24"x24"	1	45	45					57
	"	MO 5-1L	21"x21"	1	45	45					
9	I-43 OFF-RAMP TO MASON ST, PLACE 300' PRIOR TO MASON ST ON LEFT SIDE	MO 4-5	24"x12"	1	45	45					
	"	M 3-2	24"x12"	1	45	45					
	"	M 1-6	24"x24"	1	45	45					54
	"	MO 6-1	21"x21"	1	45	45					LEFT
	"	MO 4-5	24"x12"	1	45	45					
	"	M 3-1	24"x12"	1	45	45					
	"	M 1-6	24"x24"	1	45	45					57
	"	MO 6-1	21"x21"	1	45	45					LEFT

PAGE SUBTOTALS

39

1,485

129.66

0

2

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

PROJECT NUMBER: 1227-08-76

HWY: I-43

COUNTY: BROWN

MISCELLANEOUS QUANTITIES

SHEET

E

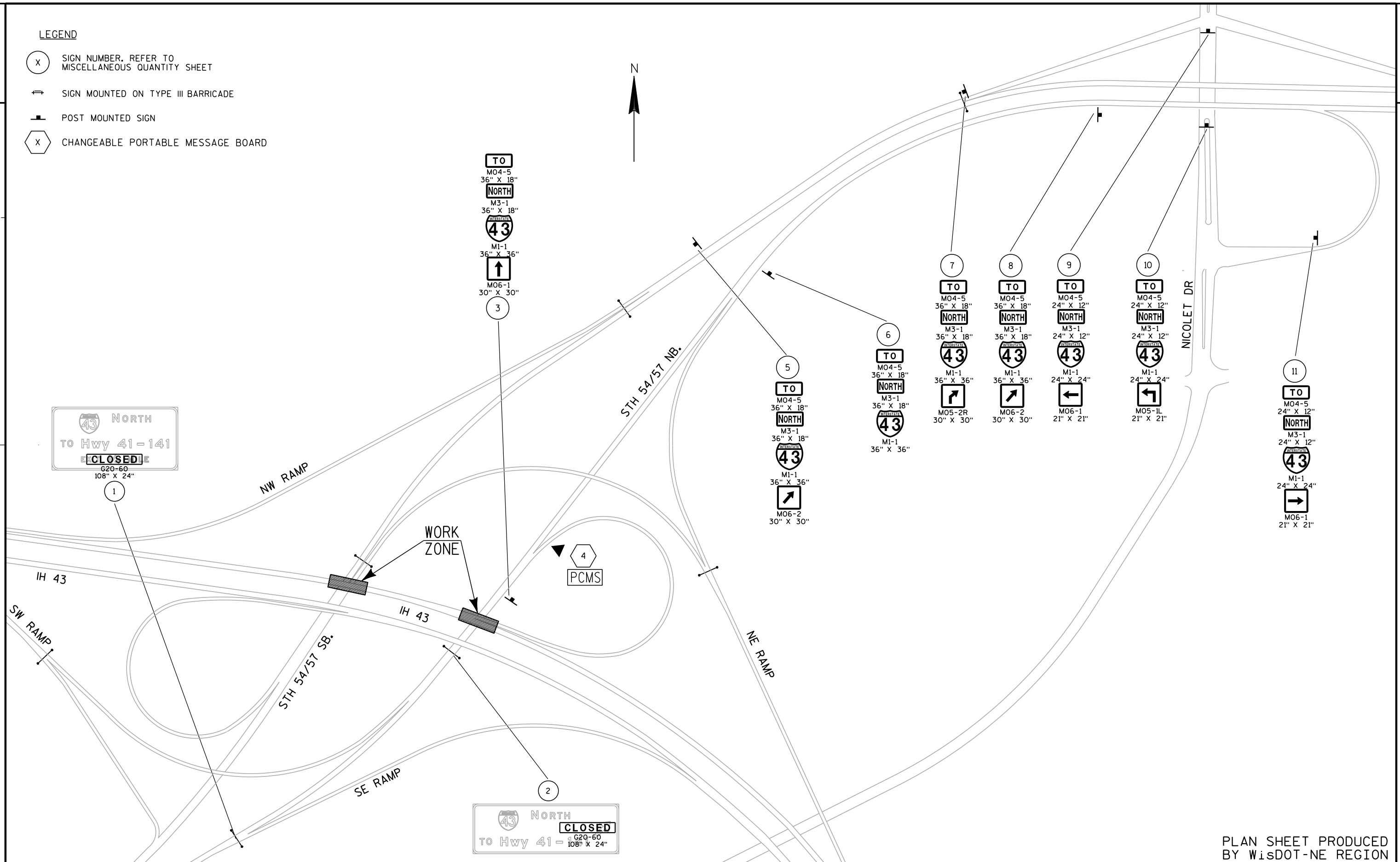
TRAFFIC CONTROL DETOUR SIGN SUMMARY - SE RAMP CLOSURE

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 45 DAYS	643.0900 SIGNS DAYS	643.1000 SIGNS FIXED MESSAGE SF	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO. OF CYCLES	643.0910 COVERING SIGNS TYPE I EACH	REMARKS
10	MASON ST, BETWEEN I-43 RAMPS, PLACE 150' E. OF I-43 SB RAMP INTERSECTION	MO 4-5	24"x12"	1	45	45					
	"	M 3-2	24"x12"	1	45	45					
	"	M 1-6	24"x24"	1	45	45					54
	"	MO 5-1L	21"x21"	1	45	45					
	"	MO 4-5	24"x12"	1	45	45					
	"	M 3-1	24"x12"	1	45	45					
	"	M 1-6	24"x24"	1	45	45					57
	"	MO 5-1L	21"x21"	1	45	45					
11	MASON ST, BETWEEN I-43 RAMPS, PLACE 150' E. OF I-43 NB RAMP INTERSECTION	MO 4-5	24"x12"	1	45	45					
	"	M 3-2	24"x12"	1	45	45					
	"	M 1-6	24"x24"	1	45	45					54
	"	MO 6-1	21"x21"	1	45	45					LEFT
	"	MO 4-5	24"x12"	1	45	45					
	"	M 3-1	24"x12"	1	45	45					
	"	M 1-6	24"x24"	1	45	45					57
	"	MO 6-1	21"x21"	1	45	45					LEFT
12	I-43, N. OF MASON ST, PLACE RIGHT OF EXISTING J4-1 SIGN	MO 4-5	24"x12"	1	45	45					
	"	M 3-2	24"x12"	1	45	45					
	"	M 1-6	24"x24"	1	45	45					54
	"	MO 4-5	24"x12"	1	45	45					
	"	M 3-1	24"x12"	1	45	45					
	"	M 1-6	24"x24"	1	45	45					57
13	I-43, AT STH 54/57 OFF-RAMP, PLACE 1000' S. OF STH 54/57 OFF-RAMP	MO 4-5	36"x18"	1	45	45					
	"	M 3-2	36"x18"	1	45	45					
	"	M 1-6	36"x36"	1	45	45					54
	"	MO 6-2	30"x30"	1	45	45					TILT RIGHT
	"	MO 4-5	36"x18"	1	45	45					
	"	M 3-1	36"x18"	1	45	45					
	"	M 1-6	36"x36"	1	45	45					57
	"	MO 6-2	30"x30"	1	45	45					TILT RIGHT
14	I-43 OFF-RAMP TO STH 54/57, PLACE IN GORE, FIELD DETERMINED	PCMS		1				7			
PAGE SUBTOTALS				31		1,350	0	7		0	
SE RAMP CLOSURE TOTALS				70		2,835	129.66	7		2	

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

LEGEND

- (X) SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET
- ⇄ SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN
- (X) CHANGEABLE PORTABLE MESSAGE BOARD



TRAFFIC CONTROL DETOUR SIGN SUMMARY - EN RAMP CLOSURE

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 45 DAYS	643.0900 SIGNS DAYS	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	REMARKS
	STH 54/57 E/N TO I-43 NB RAMP							
1	STH 54/57, AT I-43 SB SPLIT, PLACE ON TYPE I SIGN OVERHEAD FOR I-43 NB	G 20-60	108"x24"	1	45	45		
2	STH 54/57, AT I-43 NB RAMP, PLACE ON TYPE I SIGN OVERHEAD FOR I-43 NB	G 20-60	108"x24"	1	45	45		
3	STH 54/57, AT I-43 NB RAMP, PLACE 250' PRIOR TO EXIT RAMP CLOSURE	MO 4-5	36"x18"	1	45	45		
	"	M 3-1	36"x18"	1	45	45		
	"	M 1-1	36"x36"	1	45	45		43
	"	MO 6-1	30"x30"	1	45	45		AHEAD
4	STH 54/57 TO I-43 NB RAMP, PLACE ON RIGHT SHOULDER, FIELD LOCATION DETERMINED IN FIELD	PCMS		1			7	PLACE PRIOR TO FULL CLOSURE
5	STH 54/57, N. OF I-43 N/S RAMP, PLACE 750' N. OF I-43 RAMP DIVERGE	MO 4-5	36"x18"	1	45	45		
	"	M 3-1	36"x18"	1	45	45		
	"	M 1-1	36"x36"	1	45	45		43
	"	MO 6-2	30"x30"	1	45	45		TILT RIGHT
6	STH 54/57, N. OF I-43, PLACE LEFT OF EXISTING TYPE I GREEN SIGN	MO 4-5	36"x18"	1	45	45		
	"	M 3-1	36"x18"	1	45	45		
	"	M 1-1	36"x36"	1	45	45		43
7	STH 54/57, S. OF NICOLET DR, PLACE IN FRONT OF S-05-33 SIGN BRIDGE ON RIGHT SHOULDER	MO 4-5	36"x18"	1	45	45		
	"	M 3-1	36"x18"	1	45	45		
	"	M 1-1	36"x36"	1	45	45		43
	"	MO 5-2R	30"x30"	1	45	45		
8	STH 54/57, AT NICOLET DR EXIT, PLACE LEFT OF EXISTING TYPE I SIGN ON RIGHT SHOULDER	MO 4-5	36"x18"	1	45	45		
	"	M 3-1	36"x18"	1	45	45		
	"	M 1-1	36"x36"	1	45	45		43
	"	MO 6-2	30"x30"	1	45	45		TILT RIGHT
9	NICOLET DR, AT STH 54/57 RAMP, PLACE IN MEDIAN AT RAMP INTERSECTION	MO 4-5	24"x12"	1	45	45		
	"	M 3-1	24"x12"	1	45	45		
	"	M 1-1	24"x24"	1	45	45		43
	"	MO 6-1	21"x21"	1	45	45		LEFT
10	NICOLET DR, AT STH 54/57 RAMP, PLACE IN MEDIAN AT RAMP INTERSECTION	MO 4-5	24"x12"	1	45	45		
	"	M 3-1	24"x12"	1	45	45		
	"	M 1-1	24"x24"	1	45	45		43
	"	MO 5-1L	21"x21"	1	45	45		
11	STH 54/57 TO NICOLET DR RAMP, PLACE 450' PRIOR TO NICOLET DR INTERSECTION	MO 4-5	24"x12"	1	45	45		
	"	M 3-1	24"x12"	1	45	45		
	"	M 1-1	24"x24"	1	45	45		43
	"	MO 6-1	21"x21"	1	45	45		RIGHT

EN RAMP CLOSURE TOTALS

34

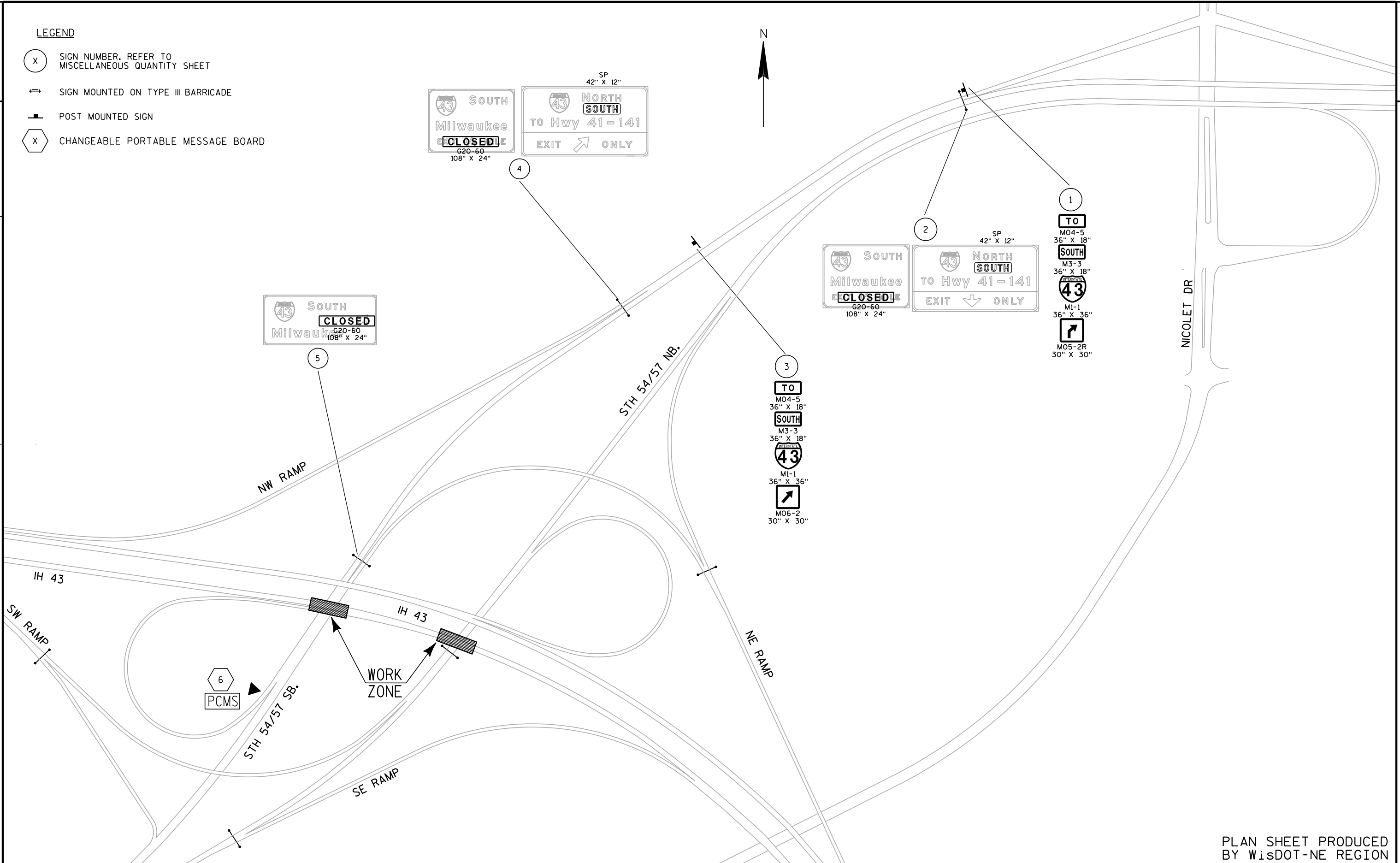
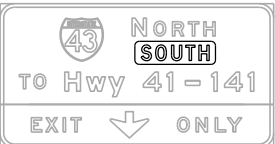
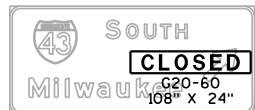
1,485

7

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

LEGEND

- (X) SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET
- ⇄ SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN
- (X) CHANGEABLE PORTABLE MESSAGE BOARD



PLAN SHEET PRODUCED
BY WISDOT-NE REGION

LEGEND

- (X) SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET
- ⇄ SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN
- (X) CHANGEABLE PORTABLE MESSAGE BOARD

TO
M04-5
36" X 18"
SOUTH
M3-3
36" X 18"
43
M1-1
36" X 36"
8

7
TO
M04-5
36" X 18"
SOUTH
M3-3
36" X 18"
43
M1-1
36" X 36"
M05-2R
30" X 30"

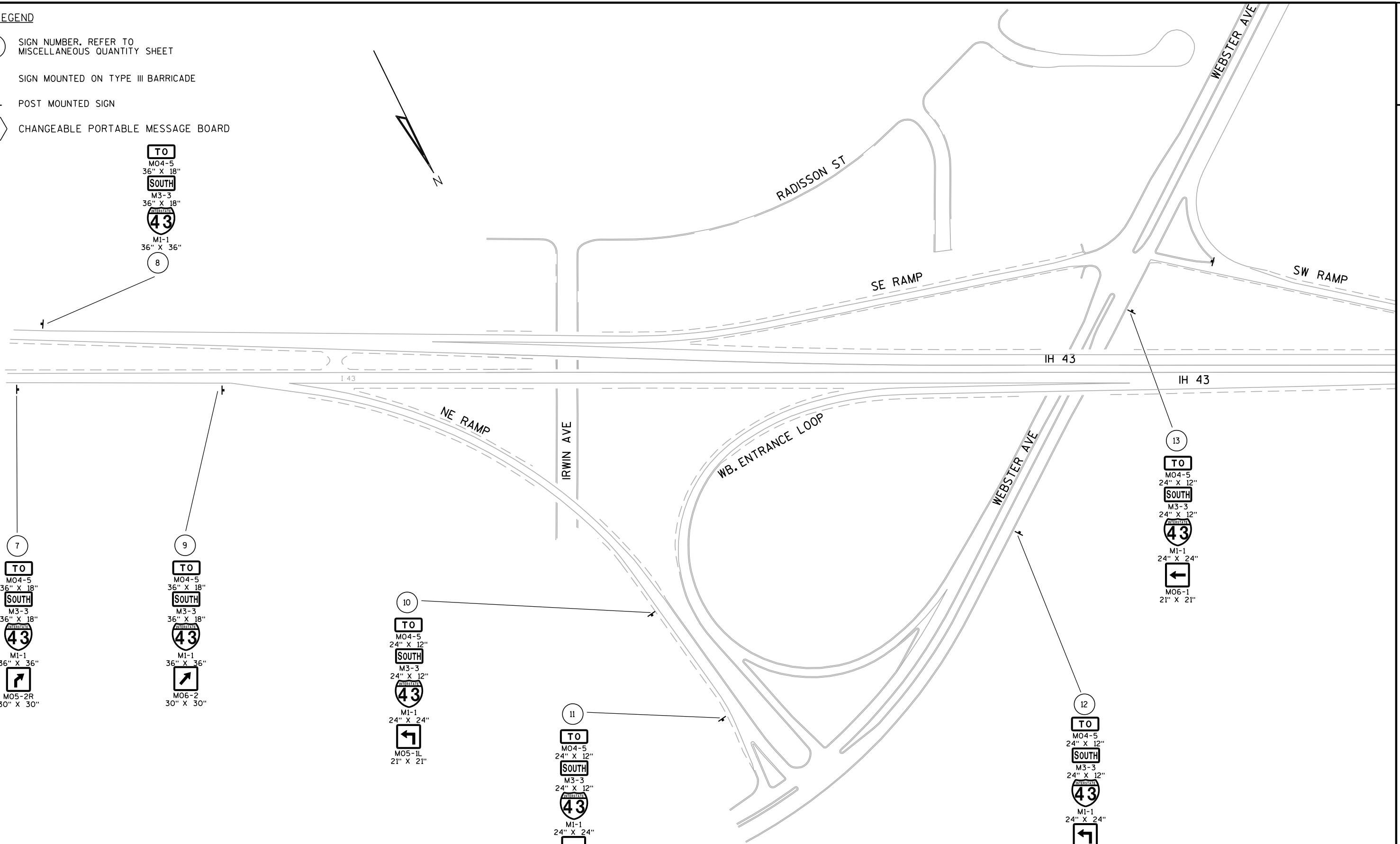
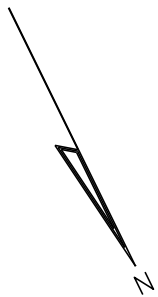
9
TO
M04-5
36" X 18"
SOUTH
M3-3
36" X 18"
43
M1-1
36" X 36"
M06-2
30" X 30"

10
TO
M04-5
24" X 12"
SOUTH
M3-3
24" X 12"
43
M1-1
24" X 24"
M05-1L
21" X 21"

11
TO
M04-5
24" X 12"
SOUTH
M3-3
24" X 12"
43
M1-1
24" X 24"
M06-1
21" X 21"

13
TO
M04-5
24" X 12"
SOUTH
M3-3
24" X 12"
43
M1-1
24" X 24"
M06-1
21" X 21"

12
TO
M04-5
24" X 12"
SOUTH
M3-3
24" X 12"
43
M1-1
24" X 24"
M05-1L
21" X 21"



PLAN SHEET PRODUCED
BY WisDOT-NE REGION

TRAFFIC CONTROL DETOUR SIGN SUMMARY - WS RAMP CLOSURE

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 45 DAYS	643.0900 SIGNS DAYS	643.1000 SIGNS FIXED MESSAGE SF	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	REMARKS
	STH 54/57 W/S TO I-43 SB RAMP								
1	STH 54/57, S. OF NICOLET DR, PLACE IN FRONT OF S-05-33 SIGN BRIDGE	MO 4-5	36"x18"	1	45	45			
	"	M 3-3	36"x18"	1	45	45			
	"	M 1-1	36"x36"	1	45	45			43
	"	MO 5-2R	30"x30"	1	45	45			
2	STH 54/57, S. OF NICOLET DR, PLACE ON S-05-33 SIGN BRIDGE TYPE I SIGNS AS SHOWN	G 20-60	108"x24"	1	45	45			
	"	SP	42"x12"	1			3.5		
3	STH 54/57, AT I-43 NB RAMP, PLACE 750' PRIOR TO I-43 NB RAMP	MO 4-5	36"x18"	1	45	45			
	"	M 3-3	36"x18"	1	45	45			
	"	M 1-1	36"x36"	1	45	45			43
	"	MO 6-2	30"x30"	1	45	45			TILT RIGHT
4	STH 54/57, AT I-43 NB RAMP, PLACE ON S-05-24 SIGN BRIDGE TYPE I SIGNS AS SHOWN	G 20-60	108"x24"	1	45	45			
	"	SP	42"x12"	1			3.5		
5	STH 54/57, AT I-43 SB RAMP, PLACE ON S-05-20 SIGN BRIDGE TYPE I SIGN AS SHOWN	G 20-60	108"x24"	1	45	45			
6	STH 54/57 TO I-43 SB RAMP, PLACE ON RIGHT SHOULDER, FIELD DETERMINED LOCATION	PCMS		1				7	PLACE PRIOR TO CLOSURE
7	I-43, S. OF WEBSTER AVE OFF-RAMP, PLACE 1/4 MILE S. OF OFF-RAMP TO WEBSTER AVE	MO 4-5	36"x18"	1	45	45			
	"	M 3-3	36"x18"	1	45	45			
	"	M 1-1	36"x36"	1	45	45			43
	"	MO 5-2R	30"x30"	1	45	45			
8	I-43, S. OF WEBSTER AVE ON-RAMP, PLACE RIGHT OF EXISTING R2-1 SIGN S. OF ON-RAMP TO WEBSTER AVE	MO 4-5	36"x18"	1	45	45			
	"	M 3-3	36"x18"	1	45	45			
	"	M 1-1	36"x36"	1	45	45			43
9	I-43, S. OF WEBSTER AVE OFF-RAMP, PLACE 100' S. OF OFF-RAMP TO WEBSTER AVE	MO 4-5	36"x18"	1	45	45			
	"	M 3-3	36"x18"	1	45	45			
	"	M 1-1	36"x36"	1	45	45			43
	"	MO 6-2	30"x30"	1	45	45			TILT RIGHT
10	I-43 OFF-RAMP TO WEBSTER AVE, PLACE 600' PRIOR TO WEBSTER AVE ON OFF-RAMP	MO 4-5	24"x12"	1	45	45			
	"	M 3-2	24"x12"	1	45	45			
	"	M 1-1	24"x24"	1	45	45			43
	"	MO 5-1L	21"x21"	1	45	45			
11	I-43 OFF-RAMP TO WEBSTER AVE, PLACE 200' PRIOR TO WEBSTER AVE ON OFF-RAMP	MO 4-5	24"x12"	1	45	45			
	"	M 3-2	24"x12"	1	45	45			
	"	M 1-1	24"x24"	1	45	45			43
	"	MO 6-1	21"x21"	1	45	45			LEFT
12	WEBSTER AVE, N. OF I-43 SB RAMP TERMINI, PLACE 750' N. OF RAMP TERMINI INTERSECTION	MO 4-5	24"x12"	1	45	45			
	"	M 3-2	24"x12"	1	45	45			
	"	M 1-1	24"x24"	1	45	45			43
	"	MO 5-1L	21"x21"	1	45	45			
13	WEBSTER AVE, N. OF I-43 SB RAMP TERMINI, PLACE 100' N. OF RAMP TERMINI INTERSECTION	MO 4-5	24"x12"	1	45	45			
	"	M 3-2	24"x12"	1	45	45			
	"	M 1-1	24"x24"	1	45	45			43
	"	MO 6-1	21"x21"	1	45	45			LEFT

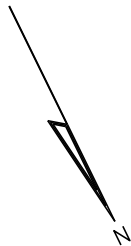
PLAN SHEET PRODUCED
BY WisDOT - NE REGION

WS RAMP CLOSURE TOTALS

411,71077

LEGEND

- (X) SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET
- ⇄ SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN
- (X) CHANGEABLE PORTABLE MESSAGE BOARD

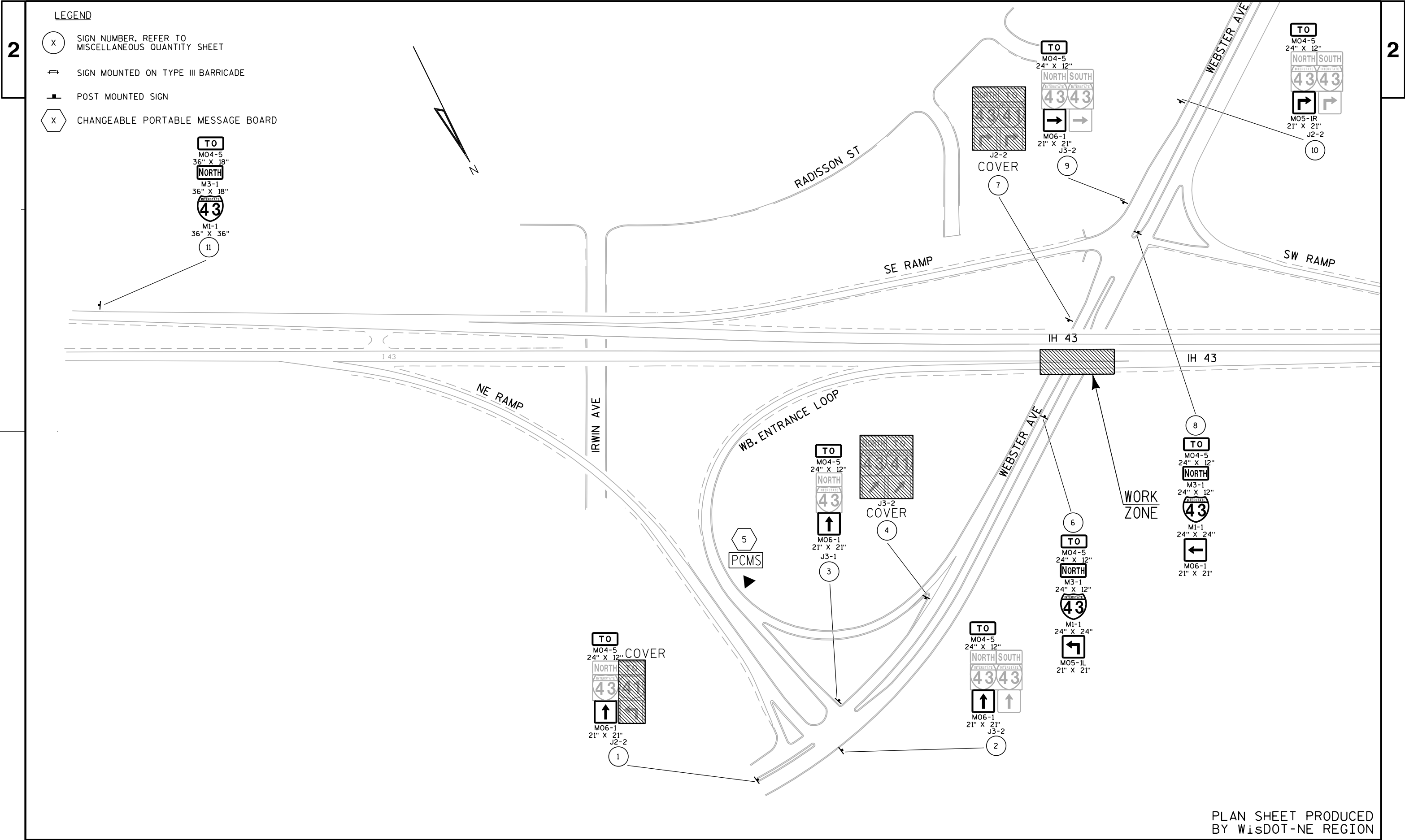


PLAN SHEET PRODUCED
BY WisDOT-NE REGION

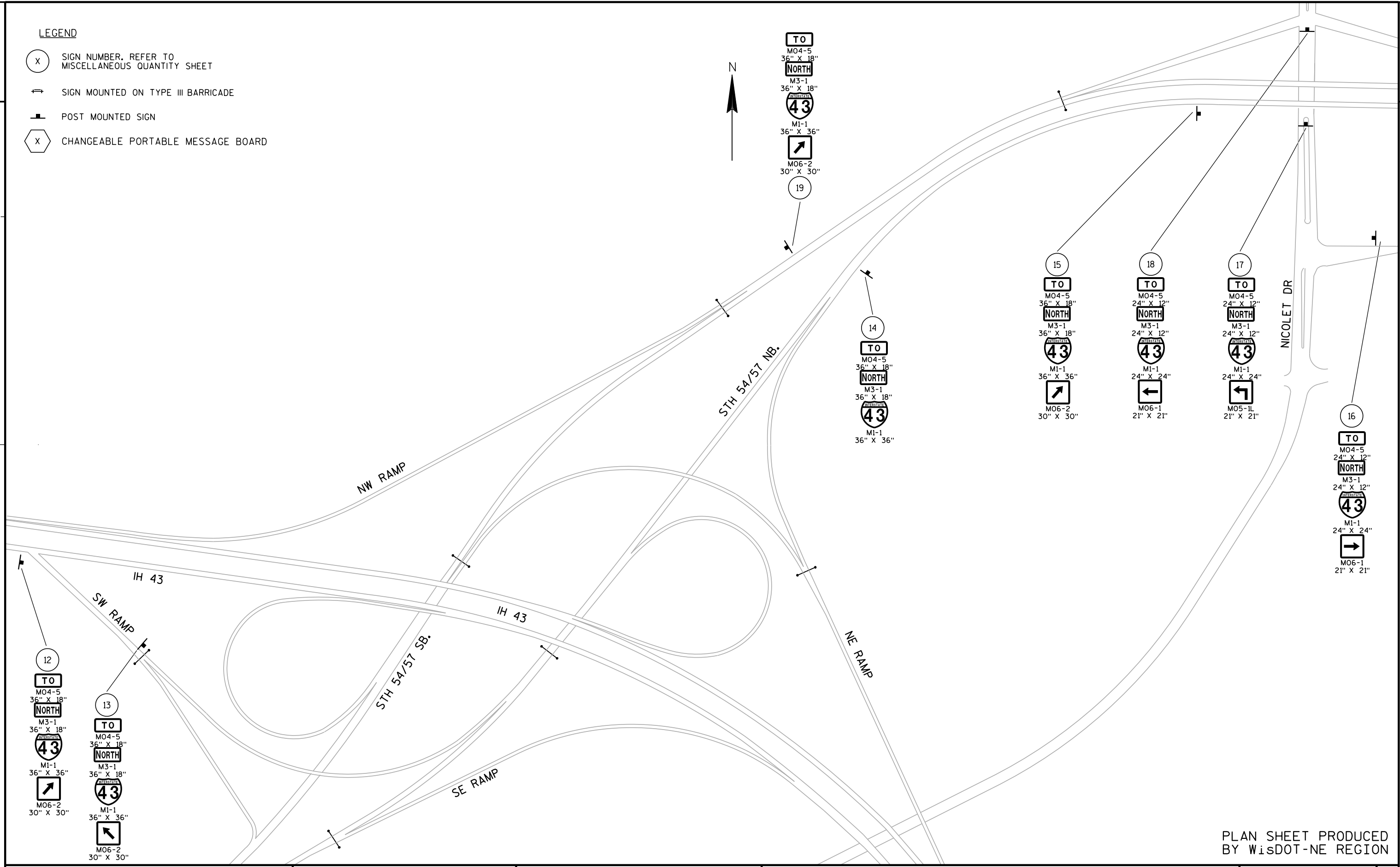
TRAFFIC CONTROL DETOUR SIGN SUMMARY - WEBSTER OFF RAMP CLOSURE

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 45 DAYS	643.0900 SIGNS DAYS	643.1000 SIGNS FIXED MESSAGE SF	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO. OF CYCLES	643.0910 COVERING SIGNS TYPE I EACH	REMARKS
	I-43 NB TO WEBSTER OFF-RAMP CLOSED										
1	I-43, E. OF WEBSTER AVE, PLACE LEFT OF EXISTING TYPE I SIGN	MO 4-5	36"x18"	1	45	45					
	"	SP	48"x30"	1			10				WEBSTER AVE
	"	MO 6-1	30"x30"	1	45	45					AHEAD
2	I-43, E. OF WEBSTER AVE, PLACE ON TYPE I SIGN AS SHOWN	G 20-60	108"x24"	1	45	45					
3	I-43, E. OF WEBSTER AVE, COVER EXISTING TYPE I SIGN AS SHOWN								1	1	
4	I-43, E. OF WEBSTER AVE, PLACE LEFT OF EXISTING TYPE I SIGN	MO 4-5	36"x18"	1	45	45					
	"	SP	48"x30"	1			10				WEBSTER AVE
	"	MO 6-1	30"x30"	1	45	45					AHEAD
5	I-43, E. OF WEBSTER AVE, PLACE ON TYPE I SIGN AS SHOWN	G 20-60	108"x24"	1	45	45					
6	I-43 NB TO WEBSTER AVE OFF-RAMP, PLACE ON RIGHT SHOULDER, FIELD LOCATION TO BE DETERMINED	PCMS		1				7			PLACE IN ADVANCE OF CLOSURE
7	I-43, AT OFF-RAMP TO ATKINSON DR, PLACE LEFT OF EXISTING TYPE I SIGN	MO 4-5	36"x18"	1	45	45					
	"	SP	48"x30"	1			10				WEBSTER AVE
	"	MO 6-2	30"x30"	1	45	45					TILT RIGHT
8	I-43 OFF-RAMP TO ATKINSON DR, PLACE 750' PRIOR TO ATKINSON DR RAMP INTERSECTION	MO 4-5	24"x12"	1	45	45					
	"	SP	36"x24"	1			6				WEBSTER AVE
	"	MO 5-1R	21"x21"	1	45	45					
9	I-43 OFF-RAMP TO ATKINSON DR, PLACE 150' PRIOR TO ATKINSON DR RAMP INTERSECTION	MO 4-5	24"x12"	1	45	45					
	"	SP	36"x24"	1			6				WEBSTER AVE
	"	MO 6-1	21"x21"	1	45	45					RIGHT
10	ATKINSON DR, AT I-43 SB RAMP INTERSECTION, PLACE ON BACK OF EXISTING R4-7 IN MEDIAN	MO 4-5	24"x12"	1	45	45					
	"	SP	36"x24"	1			6				WEBSTER AVE
	"	MO 6-1	21"x21"	1	45	45					LEFT
WEBSTER OFF RAMP CLOSURE TOTALS				21		630	48	7			

PLAN SHEET PRODUCED
BY WisDOT - NE REGION



- LEGEND
- (X) SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET
 - ⇄ SIGN MOUNTED ON TYPE III BARRICADE
 - ┐ POST MOUNTED SIGN
 - (X) CHANGEABLE PORTABLE MESSAGE BOARD



PLAN SHEET PRODUCED
BY WISDOT-NE REGION

TRAFFIC CONTROL DETOUR SIGN SUMMARY - WEBSTER NB ON RAMP CLOSURE

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 25 DAYS	643.0900 SIGNS DAYS	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO. OF CYCLES	643.0920 COVERING TYPE II SIGNS EACH	REMARKS
	WEBSTER NB ON RAMP CLOSURE									
1	WEBSTER AVE, N. OF I-43 NB RAMP, COVER/MODIFY EXISTING J2-2 SIGN	MO 4-5	24"X12"	1	25	25		1	1	COVER "TO 41 ADV LT"
	"	MO 6-1	21"X21"	1	25	25				AHEAD
2	WEBSTER AVE, AT I-43 NB RAMP, MODIFY EXISTING J2-2 SIGN AT NB RAMP INTERSECTION	MO 4-5	24"X12"	1	25	25				
	"	MO 6-1	21"X21"	1	25	25				AHEAD
3	WEBSTER AVE, AT I-43 NB RAMP, MODIFY EXISTING J3-1 SIGN AT NB RAMP INTERSECTION	MO 4-5	24"X12"	1	25	25				
	"	MO 6-1	21"X21"	1	25	25				AHEAD
4	WEBSTER AVE, AT I-43 NB RAMP, COVER EXISTING J3-2 SIGN AT NB RAMP INTERSECTION							1	1	COVER ENTIRE SIGN
5	WEBSTER AVE ON-RAMP TO I-43 NB, PLACE ON RIGHT SHOULDER, FIELD DETERMINE LOCATION	PCMS		1			7			PLACE IN ADVANCE OF CLOSURE
6	WEBSTER AVE, N. OF I-43, PLACE IN MEDIAN JUST N. OF I-43 STRUCTURES	MO 4-5	24"X12"	1	25	25				
	"	M 3-1	24"X12"	1	25	25				
	"	M 1-1	24"X24"	1	25	25				43
	"	MO 5-1L	21"X21"	1	25	25				
7	WEBSTER AVE, N. OF I-43 SB RAMP INTERSECTION, COVER EXISTING J2-2 SIGN AS SHOWN							1	1	COVER ENTIRE SIGN
8	WEBSTER AVE, AT I-43 SB RAMP INTERSECTION, PLACE IN MEDIAN RIGHT OF EXISTING J3-1 SIGN	MO 4-5	24"X12"	1	25	25				
	"	M 3-1	24"X12"	1	25	25				
	"	M 1-1	24"X24"	1	25	25				43
	"	MO 6-1	21"X21"	1	25	25				LEFT
9	WEBSTER AVE, S. OF I-43 SB RAMP INTERSECTION, MODIFY EXISTING J3-2 SIGN AS SHOWN	MO 4-5	24"X12"	1	25	25				
	"	MO 6-1	21"X21"	1	25	25				RIGHT
10	WEBSTER AVE, S. OF I-43 SB RAMP INTERSECTION, MODIFY EXISTING J2-2 SIGN AS SHOWN	MO 4-5	24"X12"	1	25	25				
	"	MO 5-1L	21"X21"	1	25	25				
11	I-43 SB, S. OF WEBSTER AVE, PLACE RIGHT OF EXISTING J4-1 SIGN	MO 4-5	36"X18"	1	25	25				
	"	M 3-1	36"X18"	1	25	25				
	"	M 1-1	36"X36"	1	25	25				43
12	I-43 SB, AT STH 54/57, PLACE LEFT OF EXISTING TYPE I GROUND MOUNT	MO 4-5	36"X18"	1	25	25				
	"	M 3-1	36"X18"	1	25	25				
	"	M 1-1	36"X36"	1	25	25				43
	"	MO 6-2	30"X30"	1	25	25				TILT RIGHT
13	I-43 SB OFF-RAMP TO STH 54/57 SPLIT, PLACE IN FRONT OF S-05-22 LEFT COLUMN	MO 4-5	36"X18"	1	25	25				
	"	M 3-1	36"X18"	1	25	25				
	"	M 1-1	36"X36"	1	25	25				43
	"	MO 6-2	30"X30"	1	25	25				TILT LEFT
PAGE SUBTOTALS				30		725	7		3	

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

TRAFFIC CONTROL DETOUR SIGN SUMMARY - WEBSTER NB ON RAMP CLOSURE

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 25 DAYS	643.0900 SIGNS DAYS	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO. OF CYCLES	643.0920 COVERING TYPE II SIGNS EACH	REMARKS
14	STH 54/57, N. OF I-43, PLACE ACROSS FROM EXISTING J4-2 SIGN ON RIGHT SHOULDER	MO 4-5	36"X18"	1	25	25				
	"	M 3-1	36"X18"	1	25	25				
	"	M 1-1	36"X36"	1	25	25				43
15	STH 54/57, S. OF CTH A, PLACE LEFT OF EXISTING TYPE I GROUND MOUNT SIGN	MO 4-5	36"X18"	1	25	25				
	"	M 3-1	36"X18"	1	25	25				
	"	M 1-1	36"X36"	1	25	25				43
	"	MO 6-2	30"X30"	1	25	25				TILT RIGHT
16	STH 54/57 RAMP TO CTH A, PLACE 400' PRIOR TO RAMP INTERSECTION	MO 4-5	24"X12"	1	25	25				
	"	M 3-1	24"X12"	1	25	25				
	"	M 1-1	24"X24"	1	25	25				43
	"	MO 6-1	21"X21"	1	25	25				RIGHT
17	CTH A, BETWEEN 54/57 RAMPS, PLACE IN MEDIAN S. OF STH 54/57	MO 4-5	24"X12"	1	25	25				
	"	M 3-1	24"X12"	1	25	25				
	"	M 1-1	24"X24"	1	25	25				43
	"	MO 5-1L	21"X21"	1	25	25				
18	CTH A, AT 54/57 W/S RAMP, PLACE IN MEDIAN ON BACKSIDE OF R4-7 SIGN	MO 4-5	24"X12"	1	25	25				
	"	M 3-1	24"X12"	1	25	25				
	"	M 1-1	24"X24"	1	25	25				43
	"	MO 6-1	21"X21"	1	25	25				LEFT
19	STH 54/57, N. OF I-43, PLACE 500' N. OF S-05-24 SIGN BRIDGE	MO 4-5	36"X18"	1	25	25				
	"	M 3-1	36"X18"	1	25	25				
	"	M 1-1	36"X36"	1	25	25				43
	"	MO 6-2	30"X30"	1	25	25				TILT RIGHT

PAGE SUBTOTALS

23

575

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WEBSTER NB ON RAMP CLOSURE TOTALS

53

1,300

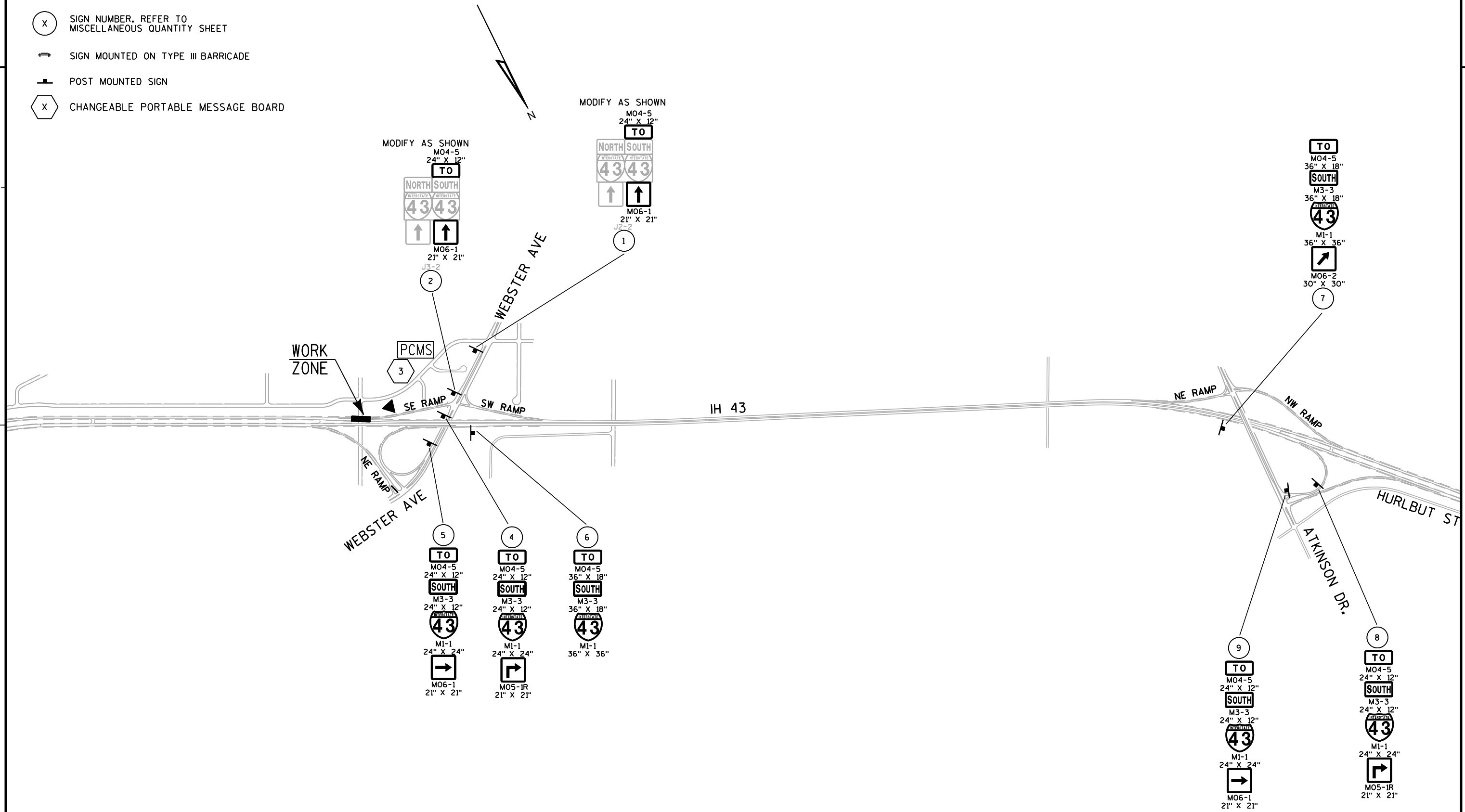
7

3

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

LEGEND

- (X) SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET
- ⇄ SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN
- (X) CHANGEABLE PORTABLE MESSAGE BOARD



PLAN SHEET PRODUCED
BY WisDOT-NE REGION

TRAFFIC CONTROL DETOUR SIGN SUMMARY - WEBSTER ON RAMP CLOSURE

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 45 DAYS	643.0900 SIGNS DAYS	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	REMARKS
	WEBSTER AVE TO I-43 SB ON-RAMP CLOSED							
1	WEBSTER AVE, S. OF I-43, MODIFY EXISTING J2-2 SIGN AS SHOWN	MO 4-5	24"x12"	1	45	45		
	"	MO 6-1	21"x21"	1	45	45		AHEAD
2	WEBSTER AVE, S. OF I-43, MODIFY EXISTING J3-2 SIGN AS SHOWN	MO 4-5	24"x12"	1	45	45		
	"	MO 6-1	21"x21"	1	45	45		AHEAD
3	WEBSTER AVE TO I-43 SB ON-RAMP, PLACE ON RIGHT SHOULDER, FIELD DETERMINED LOCATION	PCMS		1			7	PLACE IN ADVANCE OF CLOSURE
4	WEBSTER AVE, BETWEEN I-43 RAMPS, PLACE RIGHT OF EXISTING J2-2 SIGN	MO 4-5	24"x12"	1	45	45		
	"	M 3-3	24"x12"	1	45	45		
	"	M 1-1	24"x24"	1	45	45		43
	"	MO 5-1R	21"x21"	1	45	45		
5	WEBSTER AVE, BETWEEN I-43 RAMPS, PLACE AT I-43 NB RAMP TAPER POINT	MO 4-5	24"x12"	1	45	45		
	"	M 3-3	24"x12"	1	45	45		
	"	M 1-1	24"x24"	1	45	45		43
	"	MO 6-1	21"x21"	1	45	45		RIGHT
6	I-43, N. OF WEBSTER AVE, PLACE RIGHT OF EXISTING J1-1 SIGN AFTER WEBSTER AVE ON-RAMP			1	45	45		
	"			1	45	45		
	"			1	45	45		
7	I-43, AT ATKINSON DR RAMP, PLACE LEFT OF EXISTING TYPE I SIGN	MO 4-5	36"x18"	1	45	45		
	"	M 3-3	36"x18"	1	45	45		
	"	M 1-1	36"x36"	1	45	45		43
	"	MO 6-2	30"x30"	1	45	45		TILR RIGHT
8	I-43 OFF-RAMP TO ATKINSON DR, PLACE 650' PRIOR TO ATKINSON DR	MO 4-5	24"x12"	1	45	45		
	"	M 3-3	24"x12"	1	45	45		
	"	M 1-1	24"x24"	1	45	45		43
	"	MO 5-1R	21"x21"	1	45	45		
9	I-43 OFF-RAMP TO ATKINSON DR, PLACE 200' PRIOR TO ATKINSON DR	MO 4-5	24"x12"	1	45	45		
	"	M 3-3	24"x12"	1	45	45		
	"	M 1-1	24"x24"	1	45	45		43
	"	MO 6-1	21"x21"	1	45	45		RIGHT

WEBSTER ON RAMP CLOSURE TOTALS

28

1,215

7

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

REMOVING PAVEMENT

CATEGORY	STATION	TO	STATION	OFFSET	LOCATION	SY	SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS	REMARKS
1000	3437'NB'+15	-	3438'NB'+65	RT	IH 43 NB	-	171	-	OUTSIDE SHOULDER-STAGE 1
	3438'NB'+65	-	3440'NB'+24	RT	IH 43 NB	177	-	-	OUTSIDE SHOULDER-STAGE 1
	3441'NB'+98	-	3443'NB'+52	RT	IH 43 NB	180	-	-	OUTSIDE SHOULDER-STAGE 1
	3553'NB'+27	-	3553'NB'+66	RT	IH 43 NB	-	157	-	OUTSIDE SHOULDER-STAGE 1
	3553'NB'+66	-	3555'NB'+20	RT	IH 43 NB	179	-	-	OUTSIDE SHOULDER-STAGE 1
	3556'NB'+73	-	3558'NB'+31	RT	IH 43 NB	191	-	-	OUTSIDE SHOULDER-STAGE 1
	3569'NB'+31	-	3570'NB'+78	RT	IH 43 NB	-	132	-	OUTSIDE SHOULDER-STAGE 1
	3570'NB'+78	-	3572'NB'+35	RT	IH 43 NB	147	-	-	OUTSIDE SHOULDER-STAGE 1
	3574'NB'+20	-	3578'NB'+40	RT	IH 43 NB	388	-	-	OUTSIDE SHOULDER-STAGE 1
	3580'NB'+33	-	3581'NB'+97	RT	IH 43 NB	166	-	-	OUTSIDE SHOULDER-STAGE 1
	3607'NB'+51	-	3609'NB'+01	RT	IH 43 NB	-	153	-	OUTSIDE SHOULDER-STAGE 1
	3609'NB'+01	-	3610'NB'+53	RT	IH 43 NB	161	-	-	OUTSIDE SHOULDER-STAGE 1
	3611'NB'+70	-	3613'NB'+22	RT	IH 43 NB	146	-	-	OUTSIDE SHOULDER-STAGE 1
	3658'NB'+24	-	3659'NB'+74	RT	IH 43 NB	-	174	-	OUTSIDE SHOULDER-STAGE 1
	3659'NB'+74	-	3661'NB'+24	RT	IH 43 NB	174	-	-	OUTSIDE SHOULDER-STAGE 1
	3662'NB'+46	-	3663'NB'+96	RT	IH 43 NB	181	-	-	OUTSIDE SHOULDER-STAGE 1
	3668'NB'+72	-	3670'NB'+22	RT	IH 43 NB	-	155	-	OUTSIDE SHOULDER-STAGE 1
	3670'NB'+22	-	3671'NB'+95	RT	IH 43 NB	186	-	-	OUTSIDE SHOULDER-STAGE 1
	3673'NB'+69	-	3675'NB'+45	RT	IH 43 NB	190	-	-	OUTSIDE SHOULDER-STAGE 1
	3438'SB'+40	-	3439'SB'+95	LT	IH 43 SB	177	-	-	OUTSIDE SHOULDER-STAGE 1
	3441'SB'+75	-	3443'SB'+27	LT	IH 43 SB	171	-	-	OUTSIDE SHOULDER-STAGE 1
	3443'SB'+27	-	3444'SB'+77	LT	IH 43 SB	-	168	-	OUTSIDE SHOULDER-STAGE 1
	3554'SB'+05	-	3555'SB'+62	LT	IH 43 SB	136	-	-	OUTSIDE SHOULDER-STAGE 1
	3557'SB'+08	-	3558'SB'+73	LT	IH 43 SB	146	-	-	OUTSIDE SHOULDER-STAGE 1
	3558'SB'+73	-	3560'SB'+26	LT	IH 43 SB	-	138	-	OUTSIDE SHOULDER-STAGE 1
	3570'SB'+87	-	3572'SB'+44	LT	IH 43 SB	167	-	-	OUTSIDE SHOULDER-STAGE 1
	3574'SB'+20	-	3578'SB'+49	LT	IH 43 SB	402	-	-	OUTSIDE SHOULDER-STAGE 1
	3580'SB'+35	-	3582'SB'+81	LT	IH 43 SB	144	-	-	OUTSIDE SHOULDER-STAGE 1
	3582'SB'+81	-	3584'SB'+31	LT	IH 43 SB	-	118	-	OUTSIDE SHOULDER-STAGE 1
	3609'SB'+03	-	3610'SB'+53	LT	IH 43 SB	179	-	-	OUTSIDE SHOULDER-STAGE 1
	3611'SB'+81	-	3613'SB'+31	LT	IH 43 SB	172	-	-	OUTSIDE SHOULDER-STAGE 1
	3613'SB'+31	-	3614'SB'+80	LT	IH 43 SB	-	169	-	OUTSIDE SHOULDER-STAGE 1
	3659'SB'+74	-	3661'SB'+24	LT	IH 43 SB	139	-	-	OUTSIDE SHOULDER-STAGE 1
	3662'SB'+45	-	3663'SB'+95	LT	IH 43 SB	144	-	-	OUTSIDE SHOULDER-STAGE 1
	3663'SB'+95	-	3665'SB'+44	LT	IH 43 SB	-	137	-	OUTSIDE SHOULDER-STAGE 1
	3670'SB'+67	-	3672'SB'+37	LT	IH 43 SB	213	-	-	OUTSIDE SHOULDER-STAGE 1

REMOVING PAVEMENT (CONTINUED)

CATEGORY	STATION	TO	STATION	OFFSET	LOCATION	SY	SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS	REMARKS
1000	3674'SB'+09	-	3675'SB'+83	LT	IH 43 SB	210	-	-	OUTSIDE SHOULDER-STAGE 1
	3675'SB'+83	-	3677'SB'+33	LT	IH 43 SB	-	175	-	OUTSIDE SHOULDER-STAGE 1
	3660'NB'+91	-	3661'NB'+23	RT	IH 43 NB OFF RAMP	-	-	171	APPROACH WEDGE-STAGE 1
	3662'NB'+45	-	3662'NB'+94	RT	IH 43 NB OFF RAMP	-	-	193	DEPARTURE WEDGE-STAGE 1
	114'ES'+70	-	115'ES'+33	LT/RT	STH 54/57 EB CONNECTOR	-	-	205	APPROACH WEDGE-STAGE 1
	116'ES'+90	-	117'ES'+60	LT/RT	STH 54/57 EB CONNECTOR	-	-	253	DEPARTURE WEDGE-STAGE 1
	3437'NB'+11	-	3438'NB'+61	LT	IH 43 NB	-	101	-	INSIDE SHOULDER-STAGE 2
	3438'NB'+61	-	3440'NB'+14	LT	IH 43 NB	119	-	-	INSIDE SHOULDER-STAGE 2
	3439'NB'+62	-	3440'NB'+14	RT	IH 43 NB	-	-	80	APPROACH WEDGE-STAGE 2
	3441'NB'+94	-	3442'NB'+51	RT	IH 43 NB	-	-	87	DEPARTURE WEDGE-STAGE 2
	3441'NB'+94	-	3443'NB'+47	LT	IH 43 NB	104	-	-	INSIDE SHOULDER-STAGE 2
	3552'NB'+22	-	3553'NB'+72	LT	IH 43 NB	-	101	-	INSIDE SHOULDER-STAGE 2
	3553'NB'+72	-	3555'NB'+26	LT	IH 43 NB	116	-	-	INSIDE SHOULDER-STAGE 2
	3554'NB'+68	-	3555'NB'+26	RT	IH 43 NB	-	-	86	APPROACH WEDGE-STAGE 2
	3556'NB'+81	-	3557'NB'+35	RT	IH 43 NB	-	-	84	DEPARTURE WEDGE-STAGE 2
	3556'NB'+81	-	3558'NB'+42	LT	IH 43 NB	119	-	-	INSIDE SHOULDER-STAGE 2
	3554'NB'+54	-	3555'NB'+01	RT	IH 43 NB OFF RAMP	-	-	182	APPROACH WEDGE-STAGE 2
	3556'NB'+28	-	3556'NB'+75	RT	IH 43 NB OFF RAMP	-	-	182	DEPARTURE WEDGE-STAGE 2
	3573'WN'+90	-	3574'WN'+44	LT/RT	STH 54/57 WB CONNECTOR	-	-	199	APPROACH WEDGE-STAGE 2
	3576'WN'+09	-	3576'WN'+77	LT/RT	STH 54/57 WB CONNECTOR	-	-	229	DEPARTURE WEDGE-STAGE 2
	3569'NB'+43	-	3570'NB'+93	LT	IH 43 NB	-	99	-	INSIDE SHOULDER-STAGE 2
	3570'NB'+93	-	3572'NB'+48	LT	IH 43 NB	111	-	-	INSIDE SHOULDER-STAGE 2
	3571'NB'+84	-	3572'NB'+48	RT	IH 43 NB	-	-	156	APPROACH WEDGE-STAGE 2
	3574'NB'+34	-	3574'NB'+90	RT	IH 43 NB	-	-	131	DEPARTURE WEDGE-STAGE 2
	3574'NB'+34	-	3578'NB'+52	LT	IH 43 NB	271	-	-	INSIDE SHOULDER-STAGE 2
	3577'NB'+86	-	3578'NB'+52	RT	IH 43 NB	-	-	121	APPROACH WEDGE-STAGE 2
	3580'NB'+45	-	3581'NB'+03	RT	IH 43 NB	-	-	94	DEPARTURE WEDGE-STAGE 2
	3580'NB'+45	-	3582'NB'+16	LT	IH 43 NB	113	-	-	INSIDE SHOULDER-STAGE 2
	3607'NB'+55	-	3609'NB'+05	LT	IH 43 NB	-	91	-	INSIDE SHOULDER-STAGE 2
	3609'NB'+05	-	3610'NB'+57	LT	IH 43 NB	96	-	-	INSIDE SHOULDER-STAGE 2
	3610'NB'+01	-	3610'NB'+57	RT	IH 43 NB	-	-	120	APPROACH WEDGE-STAGE 2
	3611'NB'+72	-	3612'NB'+22	RT	IH 43 NB	-	-	108	DEPARTURE WEDGE-STAGE 2
	3611'NB'+72	-	3613'NB'+22	LT	IH 43 NB	97	-	-	INSIDE SHOULDER-STAGE 2
	3658'NB'+24	-	3659'NB'+74	LT	IH 43 NB	-	147	-	INSIDE SHOULDER-STAGE 2
	3659'NB'+74	-	3661'NB'+24	LT	IH 43 NB	118	-	-	INSIDE SHOULDER-STAGE 2

PROJECT NO: 1227-08-76

HWY: IH 43

COUNTY: BROWN

MISCELLANEOUS QUANTITIES

SHEET:

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FILE NAME: _____

PLOT DATE: _____

PLOT BY: _____

PLOT NAME: _____

PLOT SCALE: 1:1

REMOVING PAVEMENT (CONTINUED)

CATEGORY	STATION	TO	STATION	OFFSET	LOCATION	SY	SY	204.0100 REMOVING PAVEMENT	204.0110 REMOVING ASPHALTIC SURFACE	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS	REMARKS
1000	3660' NB'+74	-	3661' NB' 24	RT	IH 43 NB	-	-	78	-	-	APPROACH WEDGE-STAGE 2
	3662' NB'+47	-	3662' NB'+97	RT	IH 43 NB	-	-	75	-	-	DEPARTURE WEDGE-STAGE 2
	3662' NB'+47	-	3663' NB'+97	LT	IH 43 NB	121	-	-	-	-	INSIDE SHOULDER-STAGE 2
	3669' NB'+00	-	3670' NB'+50	LT	IH 43 NB	-	121	-	-	-	INSIDE SHOULDER-STAGE 2
	3670' NB'+50	-	3672' NB' 17	LT	IH 43 NB	135	-	-	-	-	INSIDE SHOULDER-STAGE 2
	3671' NB'+35	-	3672' NB' 17	RT	IH 43 NB	-	-	192	-	-	APPROACH WEDGE-STAGE 2
	3673' NB'+89	-	3674' NB'+52	RT	IH 43 NB	-	-	180	-	-	DEPARTURE WEDGE-STAGE 2
	3673' NB'+89	-	3675' NB'+62	LT	IH 43 NB	137	-	-	-	-	INSIDE SHOULDER-STAGE 2
	3438' SB'+47	-	3439' SB'+99	RT	IH 43 SB	109	-	-	-	-	INSIDE SHOULDER-STAGE 2
	3439' SB'+41	-	3439' SB'+99	LT	IH 43 SB	-	-	87	-	-	DEPARTURE WEDGE-STAGE 2
	3441' SB'+79	-	3442' SB'+31	LT	IH 43 SB	-	-	84	-	-	APPROACH WEDGE-STAGE 2
	3441' SB'+79	-	3443' SB'+32	RT	IH 43 SB	109	-	-	-	-	INSIDE SHOULDER-STAGE 2
	3443' SB'+32	-	3444' SB'+82	RT	IH 43 SB	-	99	-	-	-	INSIDE SHOULDER-STAGE 2
	3553' SB'+95	-	3555' SB'+51	RT	IH 43 SB	104	-	-	-	-	INSIDE SHOULDER-STAGE 2
	3554' SB'+98	-	3555' SB'+51	LT	IH 43 SB	-	-	116	-	-	DEPARTURE WEDGE-STAGE 2
	3556' SB'+95	-	3557' SB'+62	LT	IH 43 SB	-	-	155	-	-	APPROACH WEDGE-STAGE 2
	3556' SB'+95	-	3558' SB'+56	RT	IH 43 SB	112	-	-	-	-	INSIDE SHOULDER-STAGE 2
	3558' SB'+56	-	3560' SB'+05	RT	IH 43 SB	-	93	-	-	-	INSIDE SHOULDER-STAGE 2
	3570' SB'+79	-	3572' SB'+36	RT	IH 43 SB	112	-	-	-	-	INSIDE SHOULDER-STAGE 2
	3571' SB'+83	-	3572' SB'+36	LT	IH 43 SB	-	-	87	-	-	DEPARTURE WEDGE-STAGE 2
	3574' SB'+09	-	3574' SB'+75	LT	IH 43 SB	-	-	120	-	-	APPROACH WEDGE-STAGE 2
	3574' SB'+09	-	3578' SB'+33	RT	IH 43 SB	284	-	-	-	-	INSIDE SHOULDER-STAGE 2
	3577' SB'+77	-	3578' SB'+33	LT	IH 43 SB	-	-	132	-	-	DEPARTURE WEDGE-STAGE 2
	3580' SB'+15	-	3580' SB'+94	LT	IH 43 SB	-	-	181	-	-	APPROACH WEDGE-STAGE 2
	3580' SB'+15	-	3582' SB'+49	RT	IH 43 SB	127	-	-	-	-	INSIDE SHOULDER-STAGE 2
	3582' SB'+49	-	3583' SB'+99	RT	IH 43 SB	-	115	-	-	-	INSIDE SHOULDER-STAGE 2
	3609' SB'+04	-	3610' SB'+54	RT	IH 43 SB	101	-	-	-	-	INSIDE SHOULDER-STAGE 2
	3610' SB'+04	-	3610' SB'+54	LT	IH 43 SB	-	-	74	-	-	DEPARTURE WEDGE-STAGE 2
	3611' SB'+83	-	3612' SB'+34	LT	IH 43 SB	-	-	80	-	-	APPROACH WEDGE-STAGE 2
	3611' SB'+83	-	3613' SB'+35	RT	IH 43 SB	110	-	-	-	-	INSIDE SHOULDER-STAGE 2
	3613' SB'+35	-	3614' SB'+85	RT	IH 43 SB	-	110	-	-	-	INSIDE SHOULDER-STAGE 2
	3659' SB'+75	-	3661' SB'+25	RT	IH 43 SB	107	-	-	-	-	INSIDE SHOULDER-STAGE 2
	3660' SB'+75	-	3661' SB'+25	LT	IH 43 SB	-	-	128	-	-	DEPARTURE WEDGE-STAGE 2
	3662' SB'+47	-	3662' SB'+97	LT	IH 43 SB	-	-	138	-	-	APPROACH WEDGE-STAGE 2
	3662' SB'+47	-	3663' SB'+97	RT	IH 43 SB	122	-	-	-	-	INSIDE SHOULDER-STAGE 2

REMOVING PAVEMENT (CONTINUED)

CATEGORY	STATION	TO	STATION	OFFSET	LOCATION	SY	SY	204.0100 REMOVING PAVEMENT	204.0110 REMOVING ASPHALTIC SURFACE	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS	REMARKS
1000	3663' SB'+97	-	3665' SB'+47	RT	IH 43 SB	-	126	-	-	-	INSIDE SHOULDER-STAGE 2
	3670' SB'+56	-	3672' SB'+25	RT	IH 43 SB	142	-	-	-	-	INSIDE SHOULDER-STAGE 2
	3671' SB'+35	-	3672' SB'+25	LT	IH 43 SB	-	-	126	-	-	DEPARTURE WEDGE-STAGE 2
	3673' SB'+97	-	3674' SB'+54	LT	IH 43 SB	-	-	63	-	-	APPROACH WEDGE-STAGE 2
	3673' SB'+97	-	3675' SB'+66	RT	IH 43 SB	138	-	-	-	-	INSIDE SHOULDER-STAGE 2
	3675' SB'+66	-	3677' SB'+16	RT	IH 43 SB	-	123	-	-	-	INSIDE SHOULDER-STAGE 2
	3439' NB'+62	-	3440' NB'+16	RT	IH 43 NB	-	-	128	-	-	APPROACH WEDGE-STAGE 3
	3441' NB'+96	-	3442' NB'+51	RT	IH 43 NB	-	-	119	-	-	DEPARTURE WEDGE-STAGE 3
	3554' NB'+67	-	3555' NB'+22	RT	IH 43 NB	-	-	125	-	-	APPROACH WEDGE-STAGE 3
	3556' NB'+77	-	3557' NB'+33	RT	IH 43 NB	-	-	137	-	-	DEPARTURE WEDGE-STAGE 3
	3571' NB'+82	-	3572' NB'+41	RT	IH 43 NB	-	-	183	-	-	APPROACH WEDGE-STAGE 3
	3574' NB'+27	-	3574' NB'+88	RT	IH 43 NB	-	-	201	-	-	DEPARTURE WEDGE-STAGE 3
	3577' NB'+85	-	3578' NB'+45	RT	IH 43 NB	-	-	149	-	-	APPROACH WEDGE-STAGE 3
	3580' NB'+38	-	3581' NB'+03	RT	IH 43 NB	-	-	161	-	-	DEPARTURE WEDGE-STAGE 3
	3610' NB'+01	-	3610' NB'+55	RT	IH 43 NB	-	-	150	-	-	APPROACH WEDGE-STAGE 3
	3611' NB'+71	-	3612' NB'+21	RT	IH 43 NB	-	-	143	-	-	DEPARTURE WEDGE-STAGE 3
	3439' SB'+42	-	3439' SB'+96	LT	IH 43 SB	-	-	121	-	-	DEPARTURE WEDGE-STAGE 3
	3441' SB'+76	-	3442' SB'+31	LT	IH 43 SB	-	-	128	-	-	APPROACH WEDGE-STAGE 3
	3555' SB'+00	-	3555' SB'+57	LT	IH 43 SB	-	-	163	-	-	DEPARTURE WEDGE-STAGE 3
	3557' SB'+03	-	3557' SB'+63	LT	IH 43 SB	-	-	166	-	-	APPROACH WEDGE-STAGE 3
	3571' SB'+84	-	3572' SB'+41	LT	IH 43 SB	-	-	138	-	-	DEPARTURE WEDGE-STAGE 3
	3574' SB'+15	-	3574' SB'+76	LT	IH 43 SB	-	-	149	-	-	APPROACH WEDGE-STAGE 3
	3577' SB'+76	-	3578' SB'+41	LT	IH 43 SB	-	-	202	-	-	DEPARTURE WEDGE-STAGE 3
	3580' SB'+25	-	3580' SB'+94	LT	IH 43 SB	-	-	189	-	-	APPROACH WEDGE-STAGE 3
	3660' NB'+74	-	3661' NB'+24	RT	IH 43 NB	-	-	119	-	-	APPROACH WEDGE-STAGE 4
	3662' NB'+47	-	3662' NB'+97	RT	IH 43 NB	-	-	117	-	-	DEPARTURE WEDGE-STAGE 4
	3671' NB'+35	-	3672' NB'+05	RT	IH 43 NB	-	-	202	-	-	APPROACH WEDGE-STAGE 4
	3673' NB'+77	-	3674' NB'+49	RT	IH 43 NB	-	-	207	-	-	DEPARTURE WEDGE-STAGE 4
	3610' SB'+03	-	3610' SB'+53	LT	IH 43 SB	-	-	120	-	-	DEPARTURE WEDGE-STAGE 4
	3611' SB'+82	-	3612' SB'+34	LT	IH 43 SB	-	-	124	-	-	APPROACH WEDGE-STAGE 4
	3660' SB'+74	-	3661' SB'+24	LT	IH 43 SB	-	-	165	-	-	DEPARTURE WEDGE-STAGE 4
	3662' SB'+46	-	3662' SB'+96	LT	IH 43 SB	-	-	175	-	-	APPROACH WEDGE-STAGE 4
	3671' SB'+35	-	3672' SB'+31	LT	IH 43 SB	-	-	246	-	-	DEPARTURE WEDGE-STAGE 4
	3674' SB'+02	-	3674' SB'+54	LT	IH 43 SB	-	-	127	-	-	APPROACH WEDGE-STAGE 4

PROJECT 1227-08-76 TOTAL 8,197 3,175 9,135

PROJECT NO: 1227-08-76

HWY: IH 43

COUNTY: BROWN

MISCELLANEOUS QUANTITIES

SHEET:

E

FILE NAME: _____

PLOT DATE: _____

PLOT BY: _____

PLOT NAME: _____

PLOT SCALE: 1:1

PREPARATION FOUNDATION FOR ASPHALTIC PAVEMENT

CATEGORY	STATION TO STATION	LOCATION	211.0100 PREPARE FOUNDATION FOR ASPHALTIC PAVING (PROJECT) LS	REMARKS
1000	1227-08-76	PROJECT	1	Grading Out Aggregate Safety wedge

PROJECT 1227-08-76 TOTAL 1

FINISHING ROADWAY (PROJECT) 1227-08-76

CATEGORY	STATION TO STATION	LOCATION	213.0100 FINISHING ROADWAY (PROJECT) EACH	REMARKS
1000	1227-08-76	PROJECT	1	

PROJECT 1227-08-76 TOTAL 1

MOBILIZATION

CATEGORY	STATION TO STATION	LOCATION	619.1000 MOBILIZATION EACH	REMARKS
1000	1227-08-76	PROJECT	1	

PROJECT 1227-08-76 TOTAL 1

WATER

CATEGORY	STATION TO STATION	LOCATION	624.0100 WATER MGAL	REMARKS
1000	1227-08-76	PROJECT	10	DUST CONTROL
	1227-08-76	PROJECT	40	COMPACTION

PROJECT 1227-08-76 TOTAL 50

BASE AGGREGATE DENSE, SHAPING SHOULDERS

CATEGORY	STATION TO STATION	OFFSET	LOCATION	305.0110* BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	305.0500 SHAPING SHOULDERS STA	REMARKS
1000	3437'NB'+15 - 3438'NB'+65	RT	IH 43 NB	9	-	2	OUTSIDE SHOULDER
	3438'NB'+65 - 3440'NB'+24	RT	IH 43 NB	9	118	2	OUTSIDE SHOULDER
	3441'NB'+98 - 3443'NB'+52	RT	IH 43 NB	9	120	2	OUTSIDE SHOULDER
	3552'NB'+27 - 3553'NB'+66	RT	IH 43 NB	9	-	2	OUTSIDE SHOULDER
	3553'NB'+66 - 3555'NB'+20	RT	IH 43 NB	9	119	2	OUTSIDE SHOULDER
	3556'NB'+73 - 3558'NB'+31	RT	IH 43 NB	9	127	2	OUTSIDE SHOULDER
	3569'NB'+31 - 3570'NB'+78	RT	IH 43 NB	9	-	2	OUTSIDE SHOULDER
	3570'NB'+78 - 3572'NB'+35	RT	IH 43 NB	9	98	2	OUTSIDE SHOULDER
	3574'NB'+20 - 3578'NB'+40	RT	IH 43 NB	9	258	2	OUTSIDE SHOULDER
	3580'NB'+33 - 3581'NB'+97	RT	IH 43 NB	9	111	2	OUTSIDE SHOULDER
	3607'NB'+51 - 3609'NB'+01	RT	IH 43 NB	9	-	2	OUTSIDE SHOULDER
	3609'NB'+01 - 3610'NB'+53	RT	IH 43 NB	9	107	2	OUTSIDE SHOULDER
	3611'NB'+70 - 3613'NB'+22	RT	IH 43 NB	9	97	2	OUTSIDE SHOULDER
	3658'NB'+24 - 3659'NB'+74	RT	IH 43 NB	9	-	2	OUTSIDE SHOULDER
	3659'NB'+74 - 3661'NB'+24	RT	IH 43 NB	9	116	2	OUTSIDE SHOULDER
	3662'NB'+46 - 3663'NB'+96	RT	IH 43 NB	9	120	2	OUTSIDE SHOULDER
	3668'NB'+72 - 3670'NB'+22	RT	IH 43 NB	9	-	2	OUTSIDE SHOULDER
	3670'NB'+22 - 3671'NB'+95	RT	IH 43 NB	9	124	2	OUTSIDE SHOULDER
	3673'NB'+69 - 3675'NB'+45	RT	IH 43 NB	9	126	2	OUTSIDE SHOULDER
	3438'SB'+40 - 3439'SB'+95	LT	IH 43 SB	9	118	2	OUTSIDE SHOULDER
	3441'SB'+75 - 3443'SB'+27	LT	IH 43 SB	9	114	2	OUTSIDE SHOULDER
	3443'SB'+27 - 3444'SB'+77	LT	IH 43 SB	9	-	2	OUTSIDE SHOULDER
	3554'SB'+05 - 3555'SB'+62	LT	IH 43 SB	9	91	2	OUTSIDE SHOULDER
	3557'SB'+08 - 3558'SB'+73	LT	IH 43 SB	9	97	2	OUTSIDE SHOULDER
	3558'SB'+73 - 3560'SB'+26	LT	IH 43 SB	9	-	2	OUTSIDE SHOULDER
	3570'SB'+87 - 3572'SB'+44	LT	IH 43 SB	9	112	2	OUTSIDE SHOULDER
	3574'SB'+20 - 3578'SB'+49	LT	IH 43 SB	9	268	2	OUTSIDE SHOULDER
	3580'SB'+35 - 3582'SB'+81	LT	IH 43 SB	9	96	2	OUTSIDE SHOULDER
	3582'SB'+81 - 3584'SB'+31	LT	IH 43 SB	9	-	2	OUTSIDE SHOULDER
	3609'SB'+03 - 3610'SB'+53	LT	IH 43 SB	9	120	2	OUTSIDE SHOULDER
	3611'SB'+81 - 3613'SB'+31	LT	IH 43 SB	9	115	2	OUTSIDE SHOULDER
	3613'SB'+31 - 3614'SB'+80	LT	IH 43 SB	9	-	2	OUTSIDE SHOULDER
	3659'SB'+74 - 3661'SB'+24	LT	IH 43 SB	9	93	2	OUTSIDE SHOULDER
	3662'SB'+45 - 3663'SB'+95	LT	IH 43 SB	9	96	2	OUTSIDE SHOULDER
	3663'SB'+95 - 3665'SB'+44	LT	IH 43 SB	9	-	2	OUTSIDE SHOULDER
	3670'SB'+67 - 3672'SB'+37	LT	IH 43 SB	9	142	2	OUTSIDE SHOULDER
	3674'SB'+09 - 3675'SB'+83	LT	IH 43 SB	9	140	2	OUTSIDE SHOULDER
	3675'SB'+83 - 3677'SB'+33	LT	IH 43 SB	9	-	2	OUTSIDE SHOULDER
	3660'NB'+91 - 3661'NB'+23	RT	IH 43 NB OFF RAMP	3	-	1	B-5-223 APPROACH WEDGE
	3662'NB'+45 - 3662'NB'+94	RT	IH 43 NB OFF RAMP	3	-	1	B-5-223 DEPARTURE WEDGE
	114'ES'+70 - 115'ES'+33	LT/RT	STH 54/57 EB CONNECTOR	3	-	1	B-5-211 APPROACH WEDGE
	116'ES'+90 - 117'ES'+60	LT/RT	STH 54/57 EB CONNECTOR	3	-	1	B-5-211 DEPARTURE WEDGE
	3437'NB'+11 - 3438'NB'+61	LT	IH 43 NB	9	-	2	INSIDE SHOULDER

BASE AGGREGATE DENSE, SHAPING SHOULDERS (CONTINUED)

CATEGORY	STATION TO STATION	OFFSET	LOCATION	305.0110* BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	305.0500 SHAPING SHOULDERS STA	REMARKS
1000	3438'NB'+61 - 3440'NB'+14	LT	IH 43 NB	9	79	2	INSIDE SHOULDER
	3441'NB'+94 - 3443'NB'+47	LT	IH 43 NB	9	69	2	INSIDE SHOULDER
	3552'NB'+22 - 3553'NB'+72	LT	IH 43 NB	9	-	2	INSIDE SHOULDER
	3553'NB'+72 - 3555'NB'+26	LT	IH 43 NB	9	77	2	INSIDE SHOULDER
	3556'NB'+81 - 3558'NB'+42	LT	IH 43 NB	9	79	2	INSIDE SHOULDER
	3554'NB'+54 - 3555'NB'+01	RT	IH 43 NB OFF RAMP	3	-	1	B-5-210 APPROACH WEDGE
	3556'NB'+28 - 3556'NB'+75	RT	IH 43 NB OFF RAMP	3	-	1	B-5-210 DEPARTURE WEDGE
	3573'WN'+90 - 3574'WN'+44	LT/RT	STH 54/57 WB CONNECTOR	3	-	1	B-5-214 APPROACH WEDGE
	3576'WN'+09 - 3576'WN'+77	LT/RT	STH 54/57 WB CONNECTOR	3	-	1	B-5-214 DEPARTURE WEDGE
	3569'NB'+43 - 3570'NB'+93	LT	IH 43 NB	9	-	2	INSIDE SHOULDER
	3570'NB'+93 - 3572'NB'+48	LT	IH 43 NB	9	74	2	INSIDE SHOULDER
	3574'NB'+34 - 3578'NB'+52	LT	IH 43 NB	9	181	2	INSIDE SHOULDER
	3580'NB'+45 - 3582'NB'+16	LT	IH 43 NB	9	75	2	INSIDE SHOULDER
	3607'NB'+55 - 3609'NB'+05	LT	IH 43 NB	9	-	2	INSIDE SHOULDER
	3609'NB'+05 - 3610'NB'+57	LT	IH 43 NB	9	64	2	INSIDE SHOULDER
	3611'NB'+72 - 3613'NB'+22	LT	IH 43 NB	9	65	2	INSIDE SHOULDER
	3658'NB'+24 - 3659'NB'+74	LT	IH 43 NB	9	-	2	INSIDE SHOULDER
	3659'NB'+74 - 3661'NB'+24	LT	IH 43 NB	9	79	2	INSIDE SHOULDER
	3662'NB'+47 - 3663'NB'+97	LT	IH 43 NB	9	81	2	INSIDE SHOULDER
	3669'NB'+00 - 3670'NB'+50	LT	IH 43 NB	9	-	2	INSIDE SHOULDER
	3670'NB'+50 - 3672'NB'+17	LT	IH 43 NB	9	90	2	INSIDE SHOULDER
	3673'NB'+89 - 3675'NB'+62	LT	IH 43 NB	9	91	2	INSIDE SHOULDER
	3438'SB'+47 - 3439'SB'+99	RT	IH 43 SB	9	73	2	INSIDE SHOULDER
	3441'SB'+79 - 3443'SB'+32	RT	IH 43 SB	9	73	2	INSIDE SHOULDER
	3443'SB'+32 - 3444'SB'+82	RT	IH 43 SB	9	-	2	INSIDE SHOULDER
	3553'SB'+95 - 3555'SB'+51	RT	IH 43 SB	9	69	2	INSIDE SHOULDER
	3556'SB'+95 - 3558'SB'+56	RT	IH 43 SB	9	75	2	INSIDE SHOULDER
	3558'SB'+56 - 3560'SB'+05	RT	IH 43 SB	9	-	2	INSIDE SHOULDER
	3570'SB'+79 - 3572'SB'+36	RT	IH 43 SB	9	75	2	INSIDE SHOULDER
	3574'SB'+09 - 3578'SB'+33	RT	IH 43 SB	9	189	2	INSIDE SHOULDER
	3580'SB'+15 - 3582'SB'+49	RT	IH 43 SB	9	85	2	INSIDE SHOULDER
	3582'SB'+49 - 3583'SB'+99	RT	IH 43 SB	9	-	2	INSIDE SHOULDER
	3609'SB'+04 - 3610'SB'+54	RT	IH 43 SB	9	67	2	INSIDE SHOULDER
	3611'SB'+83 - 3613'SB'+35	RT	IH 43 SB	9	73	2	INSIDE SHOULDER
	3613'SB'+35 - 3614'SB'+85	RT	IH 43 SB	9	-	2	INSIDE SHOULDER
	3659'SB'+75 - 3661'SB'+25	RT	IH 43 SB	9	72	2	INSIDE SHOULDER
	3662'SB'+47 - 3663'SB'+97	RT	IH 43 SB	9	81	2	INSIDE SHOULDER
	3663'SB'+97 - 3665'SB'+47	RT	IH 43 SB	9	-	2	INSIDE SHOULDER
	3670'SB'+56 - 3672'SB'+25	RT	IH 43 SB	9	95	2	INSIDE SHOULDER
	3673'SB'+97 - 3675'SB'+66	RT	IH 43 SB	9	92	2	INSIDE SHOULDER
	3675'SB'+66 - 3677'SB'+16	RT	IH 43 SB	9	-	2	INSIDE SHOULDER

PROJECT 1227-08-76 TOTAL

721

5465

118

* AVERAGE DEPTH COMPUTED IS 3-INCHES

PROJECT NO: 1227-08-76

HWY: IH 43

COUNTY: BROWN

MISCELLANEOUS QUANTITIES

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FILE NAME : _____

PLOT DATE : _____

PLOT BY : _____

PLOT NAME : _____

PLOT SCALE : 1:1

HMA PAVEMENT

CATEGORY	STATION	TO	STATION	OFFSET	LOCATION	455.0605 TACK COAT GAL	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	REMARKS	
1000 STAGE 1									
	3437'	NB'+15	- 3438'	NB'+65	RT	IH 43 NB	20	39	OUTSIDE SHOULDER-4"
	3438'	NB'+65	- 3440'	NB'+24	RT	IH 43 NB	11	50	OUTSIDE SHOULDER-5"
	3441'	NB'+98	- 3443'	NB'+52	RT	IH 43 NB	11	51	OUTSIDE SHOULDER-5"
	3552'	NB'+27	- 3553'	NB'+66	RT	IH 43 NB	19	36	OUTSIDE SHOULDER-4"
	3553'	NB'+66	- 3555'	NB'+20	RT	IH 43 NB	11	51	OUTSIDE SHOULDER-5"
	3556'	NB'+73	- 3558'	NB'+31	RT	IH 43 NB	11	54	OUTSIDE SHOULDER-5"
	3569'	NB'+31	- 3570'	NB'+78	RT	IH 43 NB	16	30	OUTSIDE SHOULDER-4"
	3570'	NB'+78	- 3572'	NB'+35	RT	IH 43 NB	9	42	OUTSIDE SHOULDER-5"
	3574'	NB'+20	- 3578'	NB'+40	RT	IH 43 NB	23	110	OUTSIDE SHOULDER-5"
	3580'	NB'+33	- 3581'	NB'+97	RT	IH 43 NB	10	47	OUTSIDE SHOULDER-5"
	3607'	NB'+51	- 3609'	NB'+01	RT	IH 43 NB	18	35	OUTSIDE SHOULDER-4"
	3609'	NB'+01	- 3610'	NB'+53	RT	IH 43 NB	10	46	OUTSIDE SHOULDER-5"
	3611'	NB'+70	- 3613'	NB'+22	RT	IH 43 NB	9	42	OUTSIDE SHOULDER-5"
	3658'	NB'+24	- 3659'	NB'+74	RT	IH 43 NB	21	40	OUTSIDE SHOULDER-4"
	3659'	NB'+74	- 3661'	NB'+24	RT	IH 43 NB	10	49	OUTSIDE SHOULDER-5"
	3662'	NB'+46	- 3663'	NB'+96	RT	IH 43 NB	11	51	OUTSIDE SHOULDER-5"
	3668'	NB'+72	- 3670'	NB'+22	RT	IH 43 NB	19	36	OUTSIDE SHOULDER-4"
	3670'	NB'+22	- 3671'	NB'+95	RT	IH 43 NB	11	53	OUTSIDE SHOULDER-5"
	3673'	NB'+69	- 3675'	NB'+45	RT	IH 43 NB	11	54	OUTSIDE SHOULDER-5"
	3438'	SB'+40	- 3439'	SB'+95	LT	IH 43 SB	11	50	OUTSIDE SHOULDER-5"
	3441'	SB'+75	- 3443'	SB'+27	LT	IH 43 SB	10	49	OUTSIDE SHOULDER-5"
	3443'	SB'+27	- 3444'	SB'+77	LT	IH 43 SB	20	39	OUTSIDE SHOULDER-4"
	3554'	SB'+05	- 3555'	SB'+62	LT	IH 43 SB	8	39	OUTSIDE SHOULDER-5"
	3557'	SB'+08	- 3558'	SB'+73	LT	IH 43 SB	9	42	OUTSIDE SHOULDER-5"
	3558'	SB'+73	- 3560'	SB'+26	LT	IH 43 SB	17	32	OUTSIDE SHOULDER-4"
	3570'	SB'+87	- 3572'	SB'+44	LT	IH 43 SB	10	48	OUTSIDE SHOULDER-5"
	3574'	SB'+20	- 3578'	SB'+49	LT	IH 43 SB	24	115	OUTSIDE SHOULDER-5"
	3580'	SB'+35	- 3582'	SB'+81	LT	IH 43 SB	9	41	OUTSIDE SHOULDER-5"
	3582'	SB'+81	- 3584'	SB'+31	LT	IH 43 SB	14	27	OUTSIDE SHOULDER-4"
	3609'	SB'+03	- 3610'	SB'+53	LT	IH 43 SB	11	51	OUTSIDE SHOULDER-5"
	3611'	SB'+81	- 3613'	SB'+31	LT	IH 43 SB	10	49	OUTSIDE SHOULDER-5"
	3613'	SB'+31	- 3614'	SB'+80	LT	IH 43 SB	20	39	OUTSIDE SHOULDER-4"
	3659'	SB'+74	- 3661'	SB'+24	LT	IH 43 SB	8	40	OUTSIDE SHOULDER-5"
	3662'	SB'+45	- 3663'	SB'+95	LT	IH 43 SB	9	41	OUTSIDE SHOULDER-5"
	3663'	SB'+95	- 3665'	SB'+44	LT	IH 43 SB	16	32	OUTSIDE SHOULDER-4"
	3670'	SB'+67	- 3672'	SB'+37	LT	IH 43 SB	13	61	OUTSIDE SHOULDER-5"
	3674'	SB'+09	- 3675'	SB'+83	LT	IH 43 SB	13	60	OUTSIDE SHOULDER-5"
	3675'	SB'+83	- 3677'	SB'+33	LT	IH 43 SB	21	40	OUTSIDE SHOULDER-4"
	3660'	NB'+91	- 3661'	NB'+23	RT	IH 43 NB OFF RAMP	10	30	B-5-223 APPROACH WEDGE
	3662'	NB'+45	- 3662'	NB'+94	RT	IH 43 NB OFF RAMP	12	34	B-5-223 DEPARTURE WEDGE
	114'	ES'+70	- 115'	ES'+33	LT/RT	STH 54/57 EB CONNECTOR	12	36	B-5-211 APPROACH WEDGE
	116'	ES'+90	- 117'	ES'+60	LT/RT	STH 54/57 EB CONNECTOR	15	44	B-5-211 DEPARTURE WEDGE

HMA PAVEMENT (CONTINUED)

CATEGORY 1000 STAGE 2	STATION	TO	STATION	OFFSET	LOCATION	455.0605 TACK COAT GAL	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	REMARKS	
	3437'	NB'+11	- 3438'	NB'+61	LT	IH 43 NB	12	23	INSIDE SHOULDER-4"
	3438'	NB'+61	- 3440'	NB'+14	LT	IH 43 NB	7	34	INSIDE SHOULDER-5"
	3439'	NB'+62	- 3440'	NB'+14	RT	IH 43 NB	5	14	APPROACH WEDGE
	3441'	NB'+94	- 3442'	NB'+51	RT	IH 43 NB	5	15	DEPARTURE WEDGE
	3441'	NB'+94	- 3443'	NB'+47	LT	IH 43 NB	6	30	INSIDE SHOULDER-5"
	3552'	NB'+22	- 3553'	NB'+72	LT	IH 43 NB	12	23	INSIDE SHOULDER-4"
	3553'	NB'+72	- 3555'	NB'+26	LT	IH 43 NB	7	33	INSIDE SHOULDER-5"
	3554'	NB'+68	- 3555'	NB'+26	RT	IH 43 NB	5	15	APPROACH WEDGE
	3556'	NB'+81	- 3557'	NB'+35	RT	IH 43 NB	5	15	DEPARTURE WEDGE
	3556'	NB'+81	- 3558'	NB'+42	LT	IH 43 NB	7	34	INSIDE SHOULDER-5"
	3554'	NB'+54	- 3555'	NB'+01	RT	IH 43 NB OFF RAMP	11	32	B-5-210 APPROACH WEDGE
	3556'	NB'+28	- 3556'	NB'+75	RT	IH 43 NB OFF RAMP	11	32	B-5-210 DEPARTURE WEDGE
	3573'	WN'+90	- 3574'	WN'+44	LT/RT	STH 54/57 WB CONNECTOR	12	35	B-5-214 APPROACH WEDGE
	3576'	WN'+09	- 3576'	WN'+77	LT/RT	STH 54/57 WB CONNECTOR	14	40	B-5-214 DEPARTURE WEDGE
	3569'	NB'+43	- 3570'	NB'+93	LT	IH 43 NB	12	23	INSIDE SHOULDER-4"
	3570'	NB'+93	- 3572'	NB'+48	LT	IH 43 NB	7	32	INSIDE SHOULDER-5"
	3571'	NB'+84	- 3572'	NB'+48	RT	IH 43 NB	9	27	APPROACH WEDGE
	3574'	NB'+34	- 3574'	NB'+90	RT	IH 43 NB	8	23	DEPARTURE WEDGE
	3574'	NB'+34	- 3578'	NB'+52	LT	IH 43 NB	16	77	INSIDE SHOULDER-5"
	3577'	NB'+86	- 3578'	NB'+52	RT	IH 43 NB	7	21	APPROACH WEDGE
	3580'	NB'+45	- 3581'	NB'+03	RT	IH 43 NB	6	16	DEPARTURE WEDGE
	3580'	NB'+45	- 3582'	NB'+16	LT	IH 43 NB	7	32	INSIDE SHOULDER-5"
	3607'	NB'+55	- 3609'	NB'+05	LT	IH 43 NB	11	21	INSIDE SHOULDER-4"
	3609'	NB'+05	- 3610'	NB'+57	LT	IH 43 NB	6	27	INSIDE SHOULDER-5"
	3610'	NB'+01	- 3610'	NB'+57	RT	IH 43 NB	7	21	APPROACH WEDGE
	3611'	NB'+72	- 3612'	NB'+22	RT	IH 43 NB	6	19	DEPARTURE WEDGE
	3611'	NB'+72	- 3613'	NB'+22	LT	IH 43 NB	6	28	INSIDE SHOULDER-5"
	3658'	NB'+24	- 3659'	NB'+74	LT	IH 43 NB	18	34	INSIDE SHOULDER-4"
	3659'	NB'+74	- 3661'	NB'+24	LT	IH 43 NB	7	34	INSIDE SHOULDER-5"
	3660'	NB'+74	- 3661'	NB'+24	RT	IH 43 NB	5	14	APPROACH WEDGE
	3662'	NB'+47	- 3662'	NB'+97	RT	IH 43 NB	5	13	DEPARTURE WEDGE
	3662'	NB'+47	- 3663'	NB'+97	LT	IH 43 NB	7	35	INSIDE SHOULDER-5"
	3669'	NB'+00	- 3670'	NB'+50	LT	IH 43 NB	15	28	INSIDE SHOULDER-4"
	3670'	NB'+50	- 3672'	NB'+17	LT	IH 43 NB	8	38	INSIDE SHOULDER-5"
	3671'	NB'+35	- 3672'	NB'+17	RT	IH 43 NB	11	34	APPROACH WEDGE
	3673'	NB'+89	- 3674'	NB'+52	RT	IH 43 NB	11	32	DEPARTURE WEDGE
	3673'	NB'+89	- 3675'	NB'+62	LT	IH 43 NB	8	39	INSIDE SHOULDER-5"

PROJECT NO: 1227-08-76

HWY: IH 43

COUNTY: BROWN

MISCELLANEOUS QUANTITIES

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PLOT SCALE : 1:1

HMA PAVEMENT (CONTINUED)

CATEGORY	STATION	TO	STATION	OFFSET	LOCATION	455.0605 TACK COAT GAL	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	REMARKS
1000 STAGE 2	3438'SB'+47	-	3439'SB'+99	RT	IH 43 SB	7	31	INSIDE SHOULDER-5"
	3439'SB'+41	-	3439'SB'+99	LT	IH 43 SB	5	15	DEPARTURE WEDGE
	3441'SB'+79	-	3442'SB'+31	LT	IH 43 SB	5	15	APPROACH WEDGE
	3441'SB'+79	-	3443'SB'+32	RT	IH 43 SB	7	31	INSIDE SHOULDER-5"
	3443'SB'+32	-	3444'SB'+82	RT	IH 43 SB	12	23	INSIDE SHOULDER-4"
	3553'SB'+95	-	3555'SB'+51	RT	IH 43 SB	6	30	INSIDE SHOULDER-5"
	3554'SB'+98	-	3555'SB'+51	LT	IH 43 SB	7	20	DEPARTURE WEDGE
	3556'SB'+95	-	3557'SB'+62	LT	IH 43 SB	9	27	APPROACH WEDGE
	3556'SB'+95	-	3558'SB'+56	RT	IH 43 SB	7	32	INSIDE SHOULDER-5"
	3558'SB'+56	-	3560'SB'+05	RT	IH 43 SB	11	21	INSIDE SHOULDER-4"
	3570'SB'+79	-	3572'SB'+36	RT	IH 43 SB	7	32	INSIDE SHOULDER-5"
	3571'SB'+83	-	3572'SB'+36	LT	IH 43 SB	5	15	DEPARTURE WEDGE
	3574'SB'+09	-	3574'SB'+75	LT	IH 43 SB	7	21	APPROACH WEDGE
	3574'SB'+09	-	3578'SB'+33	RT	IH 43 SB	17	81	INSIDE SHOULDER-5"
	3577'SB'+77	-	3578'SB'+33	LT	IH 43 SB	8	23	DEPARTURE WEDGE
	3580'SB'+15	-	3580'SB'+94	LT	IH 43 SB	11	32	APPROACH WEDGE
	3580'SB'+15	-	3582'SB'+49	RT	IH 43 SB	8	36	INSIDE SHOULDER-5"
	3582'SB'+49	-	3583'SB'+99	RT	IH 43 SB	14	27	INSIDE SHOULDER-4"
	3609'SB'+04	-	3610'SB'+54	RT	IH 43 SB	6	29	INSIDE SHOULDER-5"
	3610'SB'+04	-	3610'SB'+54	LT	IH 43 SB	4	13	DEPARTURE WEDGE
	3611'SB'+83	-	3612'SB'+34	LT	IH 43 SB	5	14	APPROACH WEDGE
	3611'SB'+83	-	3613'SB'+35	RT	IH 43 SB	7	31	INSIDE SHOULDER-5"
	3613'SB'+35	-	3614'SB'+85	RT	IH 43 SB	13	25	INSIDE SHOULDER-4"
	3659'SB'+75	-	3661'SB'+25	RT	IH 43 SB	6	31	INSIDE SHOULDER-5"
	3660'SB'+75	-	3661'SB'+25	LT	IH 43 SB	8	22	DEPARTURE WEDGE
	3662'SB'+47	-	3662'SB'+97	LT	IH 43 SB	8	24	APPROACH WEDGE
	3662'SB'+47	-	3663'SB'+97	RT	IH 43 SB	7	35	INSIDE SHOULDER-5"
	3663'SB'+97	-	3665'SB'+47	RT	IH 43 SB	15	29	INSIDE SHOULDER-4"
	3670'SB'+56	-	3672'SB'+25	RT	IH 43 SB	9	41	INSIDE SHOULDER-5"
	3671'SB'+35	-	3672'SB'+25	LT	IH 43 SB	8	22	DEPARTURE WEDGE
	3673'SB'+97	-	3674'SB'+54	LT	IH 43 SB	4	11	APPROACH WEDGE
	3673'SB'+97	-	3675'SB'+66	RT	IH 43 SB	8	39	INSIDE SHOULDER-5"
	3675'SB'+66	-	3677'SB'+16	RT	IH 43 SB	15	28	INSIDE SHOULDER-4"
STAGE 2 SUBTOTAL						597	1947	

HMA PAVEMENT (CONTINUED)

CATEGORY	STATION	TO	STATION	OFFSET	LOCATION	455.0605 TACK COAT GAL	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	REMARKS
1000 STAGE 3	3439'NB'+62	-	3440'NB'+16	RT	IH 43 NB	8	22	APPROACH WEDGE
	3441'NB'+96	-	3442'NB'+51	RT	IH 43 NB	7	21	DEPARTURE WEDGE
	3554'NB'+67	-	3555'NB'+22	RT	IH 43 NB	8	22	APPROACH WEDGE
	3556'NB'+77	-	3557'NB'+33	RT	IH 43 NB	8	24	DEPARTURE WEDGE
	3571'NB'+82	-	3572'NB'+41	RT	IH 43 NB	11	32	APPROACH WEDGE
	3574'NB'+27	-	3574'NB'+88	RT	IH 43 NB	12	35	DEPARTURE WEDGE
	3577'NB'+85	-	3578'NB'+45	RT	IH 43 NB	9	26	APPROACH WEDGE
	3580'NB'+38	-	3581'NB'+03	RT	IH 43 NB	10	28	DEPARTURE WEDGE
	3610'NB'+01	-	3610'NB'+55	RT	IH 43 NB	9	26	APPROACH WEDGE
	3611'NB'+71	-	3612'NB'+21	RT	IH 43 NB	9	25	DEPARTURE WEDGE
	3439'SB'+42	-	3439'SB'+96	LT	IH 43 SB	7	21	DEPARTURE WEDGE
	3441'SB'+76	-	3442'SB'+31	LT	IH 43 SB	8	22	APPROACH WEDGE
	3555'SB'+00	-	3555'SB'+57	LT	IH 43 SB	10	29	DEPARTURE WEDGE
	3557'SB'+03	-	3557'SB'+63	LT	IH 43 SB	10	29	APPROACH WEDGE
	3571'SB'+84	-	3572'SB'+41	LT	IH 43 SB	8	24	DEPARTURE WEDGE
	3574'SB'+15	-	3574'SB'+76	LT	IH 43 SB	9	26	APPROACH WEDGE
	3577'SB'+76	-	3578'SB'+41	LT	IH 43 SB	12	35	DEPARTURE WEDGE
	3580'SB'+25	-	3580'SB'+94	LT	IH 43 SB	11	33	APPROACH WEDGE
STAGE 3 SUBTOTAL						165	482	
1000 STAGE 4	3660'NB'+74	-	3661'NB'+24	RT	IH 43 NB	7	21	APPROACH WEDGE
	3662'NB'+47	-	3662'NB'+97	RT	IH 43 NB	7	20	DEPARTURE WEDGE
	3671'NB'+35	-	3672'NB'+05	RT	IH 43 NB	12	35	APPROACH WEDGE
	3673'NB'+77	-	3674'NB'+49	RT	IH 43 NB	12	36	DEPARTURE WEDGE
	3610'SB'+03	-	3610'SB'+53	LT	IH 43 SB	7	21	DEPARTURE WEDGE
	3611'SB'+82	-	3612'SB'+34	LT	IH 43 SB	7	22	APPROACH WEDGE
	3660'SB'+74	-	3661'SB'+24	LT	IH 43 SB	10	29	DEPARTURE WEDGE
	3662'SB'+46	-	3662'SB'+96	LT	IH 43 SB	11	31	APPROACH WEDGE
	3671'SB'+35	-	3672'SB'+31	LT	IH 43 SB	15	43	DEPARTURE WEDGE
	3674'SB'+02	-	3674'SB'+54	LT	IH 43 SB	8	22	APPROACH WEDGE
STAGE 4 SUBTOTAL						96	280	
PROJECT 1227-08-76 TOTAL						1,421	4,665	

RUMBLE STRIPS

CATEGORY	STATION	TO	STATION	LOCATION	465.0400 ASPHALTIC SHOULDER RUMBLE STRIPS LF	REMARKS
1000	3437'NB'+11	-	3443'NB'+54	IH 43 NB	922	
	3552'NB'+22	-	3558'NB'+43	IH 43 NB	930	
	3569'NB'+28	-	3582'NB'+16	IH 43 NB	890	
	3607'NB'+51	-	3613'NB'+22	IH 43 NB	907	
	3658'NB'+24	-	3663'NB'+97	IH 43 NB	900	
	3668'NB'+70	-	3675'NB'+62	IH 43 NB	488	
	3438'SB'+40	-	3444'SB'+82	IH 43 SB	922	
	3553'SB'+94	-	3560'SB'+26	IH 43 SB	487	
	3570'SB'+80	-	3584'SB'+32	IH 43 SB	1,095	
	3609'SB'+03	-	3614'SB'+85	IH 43 SB	908	
	3659'SB'+74	-	3665'SB'+48	IH 43 SB	450	
	3670'SB'+56	-	3677'SB'+33	IH 43 SB	993	
PROJECT 1227-08-76 TOTAL					9,892	

PROJECT NO: 1227-08-76

HWY: IH 43

COUNTY: BROWN

MISCELLANEOUS QUANTITIES

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PLOT NAME : _____

PLOT SCALE : 1:1

TEMPORARY PRECAST CONCRETE BARRIER

CATEGORY	STATION	TO	STATION	STRUCTURE	LOCATION	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF	614.0905 CRASH CUSHIONS TEMPORARY EACH	REMARKS
1000	3438' NB'+66	-	3442' NB'+96	B-05-203	IH 43 NB	430	860	1	
	3553' NB'+74	-	3557' NB'+77	B-05-209	IH 43 NB	405	810	1	
	3570' NB'+95	-	3581' NB'+40	B-05-213	IH 43 NB	1,048	2,096	1	
	3609' NB'+05	-	3612' NB'+72	B-05-219	IH 43 NB	366	732	1	
	3659' NB'+74	-	3663' NB'+47	B-05-222	IH 43 NB	372	744	1	
	3670' NB'+61	-	3674' NB'+83	B-05-224	IH 43 NB	422	844	1	
	3438' SB'+97	-	3443' SB'+27	B-05-202	IH 43 SB	430	860	1	
	3554' SB'+55	-	3558' SB'+50	B-05-208	IH 43 SB	394	788	1	
	3571' SB'+39	-	3582' SB'+37	B-05-212	IH 43 SB	1,030	2,060	1	
	3609' SB'+53	-	3613' SB'+32	B-05-220	IH 43 SB	380	760	1	
	3660' SB'+24	-	3663' SB'+97	B-05-221	IH 43 SB	372	744	1	
	3671' SB'+31	-	3675' SB'+53	B-05-224	IH 43 SB	422	844	1	
	PROJECT 1227-08-76 TOTAL					6,071	12,142	12	

GUARDRAIL

CATEGORY	LOCATION	204.0165 REMOVING GUARDRAIL LF	614.0397 GUARDRAIL MOW STRIP EMULSIFIED ASPHALT SY	614.2300 MGS GUARDRAIL 3 LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	REMARKS
1000	B-5-213 SE WINGWALL	332	132	293	39	1	
	B-5-215 SE WINGWALL	400	132	320	78	-	
	B-5-216 SE WINGWALL	417	150	339	78	-	
PROJECT 1227-08-76 TOTAL		1,149	414	952	195	1	

LANDSCAPING SUMMARY

CATEGORY	LOCATION	625.0500 SALVAGED TOPSOIL SY	628.2004 EROSION MAT CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEED MIXTURE NO. 30 LB	630.0500 SEED WATER MGAL	REMARKS
1000	B-5-213 SE WINGWALL	350	400	0.3	7	4	
	B-5-215 SE WINGWALL	350	400	0.3	7	4	
	B-5-216 SE WINGWALL	350	400	0.3	7	4	
	C-5-59 WINGWALL	400	450	0.3	8	5	
	C-5-72 WINGWALL	400	450	0.3	8	5	
	UNDISTRIBUTED	500	600	0.4	11	7	
PROJECT 1227-08-76 TOTAL		2,350	2,700	2	49	30	

TRAFFIC CONTROL SUMMARY

STATION PROJECT	DAYS	643.0300 TRAFFIC CONTROL DRUMS		643.0420 TRAFFIC CONTROL BARRICADES TYPE III		643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A		643.0715 TRAFFIC CONTROL WARNING LGHTS TYPE C		643.0900 TRAFFIC CONTROL SIGNS		643.0910 COVERING SIGNS TYPE I	643.0920 COVERING SIGNS TYPE II	643.1000 SIGNS FIXED MESSAGE	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE	REMARKS
		EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	EACH	SF	DAYS	
	10	325	3,250	25	250	50	500	30	300	20	200	--	--	--	--	STAGE 1 MAINLINE
	21	50	1,050	6	126	12	252	10	210	10	210	--	--	--	--	STAGE 1 RAMPS
	42	325	13,650	25	1,050	50	2,100	30	1,260	20	840	--	--	--	--	STAGE 2
	36	325	11,700	25	900	50	1,800	30	1,080	20	720	--	--	--	--	STAGE 3
	25	325	8,125	25	625	50	1,250	30	750	20	500	--	--	--	--	STAGE 4
	60	75	4,500	4	240	8	480	20	1,200	7	420	--	--	--	--	IRVIN AVE. BRIDGE PAINTING
	60	75	4,500	4	240	8	480	20	1,200	7	420	--	--	--	--	DANZ AVE. BRIDGE PAINTING
	60	75	4,500	4	240	8	480	20	1,200	7	420	--	--	--	--	UNIVERSITY AVE. BRIDGE PAINTING
	60	75	4,500	4	240	8	480	20	1,200	7	420	--	--	--	--	STH 54/57 NB BRIDGE PAINTING
	60	75	4,500	4	240	8	480	20	1,200	7	420	--	--	--	--	SUPERIOR RD. BRIDGE PAINTING
	60	75	4,500	4	240	8	480	20	1,200	7	420	--	--	--	--	MASON ST. BRIDGE PAINTING
	SUBTOTAL FOR TRAFFIC CONTROL		64,775		4,391		8,782		10,800		4,990		0	0	0	0
LOCATION		643.0300 TRAFFIC CONTROL DRUMS		643.0420 TRAFFIC CONTROL BARRICADES TYPE III		643.0705 TRAFFIC CONTROL WARNING LGHTS TYPE A		643.0715 TRAFFIC CONTROL WARNING LGHTS TYPE C		643.0900 TRAFFIC CONTROL SIGNS		643.0910 COVERING SIGNS TYPE I	643.0920 COVERING SIGNS TYPE II	643.1000 SIGNS FIXED MESSAGE	643.1050 SIGNS PORTABLE CHANGEABLE	REMARKS
		EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	EACH	SF	DAYS	
IH-43 NB RAMP TO STH 54/57 DETOUR		--	--	--	--	--	--	--	--	79	3,510	--	--	--	7	SEE DETAILED MQ'S IN DETOUR PLAN
IH-43 NB TO STH 54/57 WEST/SOUTH RAMP DETOUR		--	--	--	--	--	--	--	--	48	1,175	--	--	--	7	SEE DETAILED MQ'S IN DETOUR PLAN
IH-43 SB RAMP TO STH 54/57 EAST/NORTH RAMP DETOUR		--	--	--	--	--	--	--	--	70	2,835	2	--	129.66	7	SEE DETAILED MQ'S IN DETOUR PLAN
STH 54/57 EAST/NORTH TO IH-43 NB RAMP DETOUR		--	--	--	--	--	--	--	--	34	1,485	--	--	--	7	SEE DETAILED MQ'S IN DETOUR PLAN
STH 54/57 WEST/SOUTH TO IH-43 SB RAMP DETOUR		--	--	--	--	--	--	--	--	41	1,710	--	--	7	7	SEE DETAILED MQ'S IN DETOUR PLAN
IH-43 NB TO WEBSTER OFF RAMP CLOSED DETOUR		--	--	--	--	--	--	--	--	21	630	--	--	48	7	SEE DETAILED MQ'S IN DETOUR PLAN
WEBSTER NB ON RAMP CLOSED DETOUR		--	--	--	--	--	--	--	--	53	1,300	--	3	--	7	SEE DETAILED MQ'S IN DETOUR PLAN
WEBSTER AVE TO IH-43 SB ON-RAMP CLOSED DETOUR		--	--	--	--	--	--	--	--	28	1,215	--	--	--	7	SEE DETAILED MQ'S IN DETOUR PLAN
SUBTOTAL FOR TRAFFIC CONTROL DETOURS		0		0		0		0		374	13,860	2	3	185	56	
PROJECT 1227-08-76 TOTAL		64,775		4,391		8,782		10,800		374	18,850	2	3	185	56	

PROJECT NO: 1227-08-76

HWY: IH 43

COUNTY: BROWN

MISCELLANEOUS QUANTITIES

SHEET:

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FILE NAME: _____

PLOT DATE: _____

PLOT BY: _____

PLOT NAME: _____

PLOT SCALE: 1:1

PAVEMENT MARKING EPOXY

CATEGORY	STATION	TO	STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH			646.3020 MARKING LINE EPOXY 8-INCH	REMARKS
					SOLID YELLOW LF	SOLID WHITE LF	DASHED WHITE 12.5' LINE LF	SOLID WHITE LF	
1000	3437'NB'+11	-	3443'NB'+54	IH 43 NB	642	642	162	-	
	3552'NB'+22	-	3558'NB'+43	IH 43 NB	620	570	162	55	
	3554'NB'+52	-	3556'NB'+72	IH 43 NB OFF RAMP	240	240	-	-	
	3573'WN'+90	-	3576'WN'+77	STH 54/57 WB CONNECTOR	283	288	-	-	
	3569'NB'+28	-	3582'NB'+16	IH 43 NB	1,275	1,300	325	1,125	
	3607'NB'+51	-	3613'NB'+22	IH 43 NB	570	570	212	-	
	3658'NB'+24	-	3663'NB'+97	IH 43 NB	573	573	150	-	
	3660'NB'+92	-	3662'NB'+94	IH 43 OFF RAMP	260	260	-	-	
	3668'NB'+70	-	3675'NB'+62	IH 43 NB	662	692	162	1,075	
	3438'SB'+40	-	3444'SB'+82	IH 43 SB	642	642	162	-	
	3553'SB'+94	-	3560'SB'+26	IH 43 SB	630	625	162	675	
	3570'SB'+80	-	3584'SB'+32	IH 43 SB	1,285	1,275	325	775	
	114'ES'+70	-	117'ES'+60	STH 54/57 EB CONNECTOR	310	310	-	-	
	3609'SB'+03	-	3614'SB'+85	IH 43 SB	585	585	150	-	
	3659'SB'+74	-	3665'SB'+48	IH 43 SB	573	572	150	1,148	
	3670'SB'+56	-	3677'SB'+33	IH 43 SB	678	678	175	-	
	PROJECT 1227-08-76 TOTAL				9,828	9,822	2,297	4,853	

TEMPORARY PAVEMENT MARKING

CATEGORY	STATION	TO	STATION	LOCATION	646.9000 MARKING REMOVAL LINE 4-INCH	646.9100 MARKING REMOVAL LINE 8-INCH	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH		REMARKS
					LF	LF	SOLID YELLOW LF	SOLID WHITE LF	
1000	3437'NB'+11	-	3443'NB'+54	IH 43 NB	2,568	-	642	642	
	3552'NB'+22	-	3558'NB'+43	IH 43 NB	2,490	55	620	625	
	3554'NB'+52	-	3556'NB'+72	IH 43 NB OFF RAMP	480	-	-	-	
	3573'WN'+90	-	3576'WN'+77	STH 54/57 WB CONNECTOR	571	-	-	-	
	3569'NB'+28	-	3582'NB'+16	IH 43 NB	7,400	1,125	1,275	2,425	
	3607'NB'+51	-	3613'NB'+22	IH 43 NB	2,280	-	570	570	
	3658'NB'+24	-	3663'NB'+97	IH 43 NB	2,292	-	573	573	
	3660'NB'+92	-	3662'NB'+94	IH 43 OFF RAMP	520	-	-	-	
	3668'NB'+70	-	3675'NB'+62	IH 43 NB	4,858	1,075	662	1,767	
	3438'SB'+40	-	3444'SB'+82	IH 43 SB	2,568	-	642	642	
	3553'SB'+94	-	3560'SB'+26	IH 43 SB	3,860	675	630	1,300	
	3570'SB'+80	-	3584'SB'+32	IH 43 SB	6,670	775	1,285	2,050	
	114'ES'+70	-	117'ES'+60	STH 54/57 EB CONNECTOR	620	-	-	-	
	3609'SB'+03	-	3614'SB'+85	IH 43 SB	2,340	-	585	585	
	3659'SB'+74	-	3665'SB'+48	IH 43 SB	4,586	1,148	573	1,720	
	3670'SB'+56	-	3677'SB'+33	IH 43 SB	2,712	-	678	678	
	PROJECT 1227-08-76 TOTAL				46,815	4,853	8,735	13,577	

PROJECT NO: 1227-08-76

HWY: IH 43

COUNTY: BROWN

MISCELLANEOUS QUANTITIES

SHEET:

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FILE NAME : _____

PLOT DATE : _____

PLOT BY : _____

PLOT NAME : _____

PLOT SCALE : 1:1

SAWING PAVEMENT SUMMARY

CATEGORY	STATION	TO	STATION	OFFSET	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	REMARKS
1000	3437'NB'+15	-	3438'NB'+65	RT	IH 43 NB	160	-	OUTSIDE SHOULDER-4" HMA
	3438'NB'+65	-	3440'NB'+24	RT	IH 43 NB	-	163	OUTSIDE SHOULDER-5" HMA
	3441'NB'+98	-	3443'NB'+52	RT	IH 43 NB	-	165	OUTSIDE SHOULDER-5" HMA
	3552'NB'+27	-	3553'NB'+66	RT	IH 43 NB	150	-	OUTSIDE SHOULDER-4" HMA
	3553'NB'+66	-	3555'NB'+20	RT	IH 43 NB	-	165	OUTSIDE SHOULDER-5" HMA
	3556'NB'+73	-	3558'NB'+31	RT	IH 43 NB	-	170	OUTSIDE SHOULDER-5" HMA
	3569'NB'+31	-	3570'NB'+78	RT	IH 43 NB	158	-	OUTSIDE SHOULDER-4" HMA
	3570'NB'+78	-	3572'NB'+35	RT	IH 43 NB	-	167	OUTSIDE SHOULDER-5" HMA
	3574'NB'+20	-	3578'NB'+40	RT	IH 43 NB	-	424	OUTSIDE SHOULDER-5" HMA
	3580'NB'+33	-	3581'NB'+97	RT	IH 43 NB	-	175	OUTSIDE SHOULDER-5" HMA
	3607'NB'+51	-	3609'NB'+01	RT	IH 43 NB	160	-	OUTSIDE SHOULDER-4" HMA
	3609'NB'+01	-	3610'NB'+53	RT	IH 43 NB	-	160	OUTSIDE SHOULDER-5" HMA
	3611'NB'+70	-	3613'NB'+22	RT	IH 43 NB	-	158	OUTSIDE SHOULDER-5" HMA
	3658'NB'+24	-	3659'NB'+74	RT	IH 43 NB	161	-	OUTSIDE SHOULDER-4" HMA
	3659'NB'+74	-	3661'NB'+24	RT	IH 43 NB	-	160	OUTSIDE SHOULDER-5" HMA
	3662'NB'+46	-	3663'NB'+96	RT	IH 43 NB	-	160	OUTSIDE SHOULDER-5" HMA
	3668'NB'+72	-	3670'NB'+22	RT	IH 43 NB	160	-	OUTSIDE SHOULDER-4" HMA
	3670'NB'+22	-	3671'NB'+95	RT	IH 43 NB	-	182	OUTSIDE SHOULDER-5" HMA
	3673'NB'+69	-	3675'NB'+45	RT	IH 43 NB	-	185	OUTSIDE SHOULDER-5" HMA
	3438'SB'+40	-	3439'SB'+95	LT	IH 43 SB	-	165	OUTSIDE SHOULDER-5" HMA
	3441'SB'+75	-	3443'SB'+27	LT	IH 43 SB	-	163	OUTSIDE SHOULDER-5" HMA
	3443'SB'+27	-	3444'SB'+77	LT	IH 43 SB	160	-	OUTSIDE SHOULDER-4" HMA
	3554'SB'+05	-	3555'SB'+62	LT	IH 43 SB	-	165	OUTSIDE SHOULDER-5" HMA
	3557'SB'+08	-	3558'SB'+73	LT	IH 43 SB	-	171	OUTSIDE SHOULDER-5" HMA
	3558'SB'+73	-	3560'SB'+26	LT	IH 43 SB	160	-	OUTSIDE SHOULDER-4" HMA
	3570'SB'+87	-	3572'SB'+44	LT	IH 43 SB	-	165	OUTSIDE SHOULDER-5" HMA
	3574'SB'+20	-	3578'SB'+49	LT	IH 43 SB	-	425	OUTSIDE SHOULDER-5" HMA
	3580'SB'+35	-	3582'SB'+81	LT	IH 43 SB	-	186	OUTSIDE SHOULDER-5" HMA
	3582'SB'+81	-	3584'SB'+31	LT	IH 43 SB	157	-	OUTSIDE SHOULDER-4" HMA
	3609'SB'+03	-	3610'SB'+53	LT	IH 43 SB	-	160	OUTSIDE SHOULDER-5" HMA
	3611'SB'+81	-	3613'SB'+31	LT	IH 43 SB	-	162	OUTSIDE SHOULDER-5" HMA
	3613'SB'+31	-	3614'SB'+80	LT	IH 43 SB	160	-	OUTSIDE SHOULDER-4" HMA
	3659'SB'+74	-	3661'SB'+24	LT	IH 43 SB	-	160	OUTSIDE SHOULDER-5" HMA
	3662'SB'+45	-	3663'SB'+95	LT	IH 43 SB	-	158	OUTSIDE SHOULDER-5" HMA
	3663'SB'+95	-	3665'SB'+44	LT	IH 43 SB	159	-	OUTSIDE SHOULDER-4" HMA
	3670'SB'+67	-	3672'SB'+37	LT	IH 43 SB	-	182	OUTSIDE SHOULDER-5" HMA
	3674'SB'+09	-	3675'SB'+83	LT	IH 43 SB	-	185	OUTSIDE SHOULDER-5" HMA

SAWING PAVEMENT SUMMARY (CONTINUED)

CATEGORY	STATION	TO	STATION	OFFSET	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	REMARKS
1000	3675'SB'+83	-	3677'SB'+33	LT	IH 43 SB	160	-	OUTSIDE SHOULDER-4" HMA
	3660'NB'+91	-	3661'NB'+23	RT	IH 43 NB OFF RAMP	34	-	B-5-223 APPROACH WEDGE
	3662'NB'+45	-	3662'NB'+94	RT	IH 43 NB OFF RAMP	32	-	B-5-223 DEPARTURE WEDGE
	114'ES'+70	-	115'ES'+33	LT/RT	STH 54/57 EB CONNECTOR	30	-	B-5-211 APPROACH WEDGE
	116'ES'+90	-	117'ES'+60	LT/RT	STH 54/57 EB CONNECTOR	30	-	B-5-211 DEPARTURE WEDGE
	3437'NB'+11	-	3438'NB'+61	LT	IH 43 NB	156	-	INSIDE SHOULDER-4" HMA
	3438'NB'+61	-	3440'NB'+14	LT	IH 43 NB	-	161	INSIDE SHOULDER-5" HMA
	3439'NB'+62	-	3440'NB'+14	RT	IH 43 NB	68	-	APPROACH WEDGE
	3441'NB'+94	-	3442'NB'+51	RT	IH 43 NB	68	-	DEPARTURE WEDGE
	3441'NB'+94	-	3443'NB'+47	LT	IH 43 NB	-	158	INSIDE SHOULDER-5" HMA
	3552'NB'+22	-	3553'NB'+72	LT	IH 43 NB	156	-	INSIDE SHOULDER-4" HMA
	3553'NB'+72	-	3555'NB'+26	LT	IH 43 NB	-	161	INSIDE SHOULDER-5" HMA
	3554'NB'+68	-	3555'NB'+26	RT	IH 43 NB	70	-	APPROACH WEDGE
	3556'NB'+81	-	3557'NB'+35	RT	IH 43 NB	70	-	DEPARTURE WEDGE
	3556'NB'+81	-	3558'NB'+42	LT	IH 43 NB	-	168	INSIDE SHOULDER-5" HMA
	3554'NB'+54	-	3555'NB'+01	RT	IH 43 NB OFF RAMP	32	-	B-5-210 APPROACH WEDGE
	3556'NB'+28	-	3556'NB'+75	RT	IH 43 NB OFF RAMP	32	-	B-5-210 DEPARTURE WEDGE
	3573'WN'+90	-	3574'WN'+44	LT/RT	STH 54/57 WB CONNECTOR	32	-	B-5-214 APPROACH WEDGE
	3576'WN'+09	-	3576'WN'+77	LT/RT	STH 54/57 WB CONNECTOR	32	-	B-5-214 DEPARTURE WEDGE
	3569'NB'+43	-	3570'NB'+93	LT	IH 43 NB	156	-	INSIDE SHOULDER-4" HMA
	3570'NB'+93	-	3572'NB'+48	LT	IH 43 NB	-	161	INSIDE SHOULDER-5" HMA
	3571'NB'+84	-	3572'NB'+48	RT	IH 43 NB	82	-	APPROACH WEDGE
	3574'NB'+34	-	3574'NB'+90	RT	IH 43 NB	82	-	DEPARTURE WEDGE
	3574'NB'+34	-	3578'NB'+52	LT	IH 43 NB	-	420	INSIDE SHOULDER-5" HMA
	3577'NB'+86	-	3578'NB'+52	RT	IH 43 NB	78	-	APPROACH WEDGE
	3580'NB'+45	-	3581'NB'+03	RT	IH 43 NB	78	-	DEPARTURE WEDGE
	3580'NB'+45	-	3582'NB'+16	LT	IH 43 NB	-	176	INSIDE SHOULDER-5" HMA
	3607'NB'+55	-	3609'NB'+05	LT	IH 43 NB	160	-	INSIDE SHOULDER-4" HMA
	3609'NB'+05	-	3610'NB'+57	LT	IH 43 NB	-	156	INSIDE SHOULDER-5" HMA
	3610'NB'+01	-	3610'NB'+57	RT	IH 43 NB	74	-	APPROACH WEDGE
	3611'NB'+72	-	3612'NB'+22	RT	IH 43 NB	70	-	DEPARTURE WEDGE
	3611'NB'+72	-	3613'NB'+22	LT	IH 43 NB	-	150	INSIDE SHOULDER-5" HMA
	3658'NB'+24	-	3659'NB'+74	LT	IH 43 NB	166	-	INSIDE SHOULDER-4" HMA

PROJECT NO: 1227-08-76

HWY: IH 43

COUNTY: BROWN

MISCELLANEOUS QUANTITIES

SHEET:

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FILE NAME: _____

PLOT DATE: _____

PLOT BY: _____

PLOT NAME: _____

PLOT SCALE: 1:1

SAWING PAVEMENT SUMMARY (CONTINUED)

CATEGORY	STATION	TO	STATION	OFFSET	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	REMARKS
	3659'NB'+74	-	3661'NB'+24	LT	IH 43 NB	-	158	INSIDE SHOULDER-5" HMA
	3660'NB'+74	-	3661'NB'+24	RT	IH 43 NB	64	-	APPROACH WEDGE
	3662'NB'+47	-	3662'NB'+97	RT	IH 43 NB	64	-	DEPARTURE WEDGE
	3662'NB'+47	-	3663'NB'+97	LT	IH 43 NB	-	158	INSIDE SHOULDER-5" HMA
	3669'NB'+00	-	3670'NB'+50	LT	IH 43 NB	158	-	INSIDE SHOULDER-4" HMA
	3670'NB'+50	-	3672'NB'+17	LT	IH 43 NB	-	175	INSIDE SHOULDER-5" HMA
	3671'NB'+35	-	3672'NB'+17	RT	IH 43 NB	93	-	APPROACH WEDGE
	3673'NB'+89	-	3674'NB'+52	RT	IH 43 NB	97	-	DEPARTURE WEDGE
	3673'NB'+89	-	3675'NB'+62	LT	IH 43 NB	-	180	INSIDE SHOULDER-5" HMA
	3438'SB'+47	-	3439'SB'+99	RT	IH 43 SB	-	160	INSIDE SHOULDER-5" HMA
	3439'SB'+41	-	3439'SB'+99	LT	IH 43 SB	70	-	DEPARTURE WEDGE
	3441'SB'+79	-	3442'SB'+31	LT	IH 43 SB	70	-	APPROACH WEDGE
	3441'SB'+79	-	3443'SB'+32	RT	IH 43 SB	-	160	INSIDE SHOULDER-5" HMA
	3443'SB'+32	-	3444'SB'+82	RT	IH 43 SB	158	-	INSIDE SHOULDER-4" HMA
	3553'SB'+95	-	3555'SB'+51	RT	IH 43 SB	-	163	INSIDE SHOULDER-5" HMA
	3554'SB'+98	-	3555'SB'+51	LT	IH 43 SB	75	-	DEPARTURE WEDGE
	3556'SB'+95	-	3557'SB'+62	LT	IH 43 SB	80	-	APPROACH WEDGE
	3556'SB'+95	-	3558'SB'+56	RT	IH 43 SB	-	167	INSIDE SHOULDER-5" HMA
	3558'SB'+56	-	3560'SB'+05	RT	IH 43 SB	155	-	INSIDE SHOULDER-4" HMA
	3570'SB'+79	-	3572'SB'+36	RT	IH 43 SB	-	163	INSIDE SHOULDER-5" HMA
	3571'SB'+83	-	3572'SB'+36	LT	IH 43 SB	70	-	DEPARTURE WEDGE
	3574'SB'+09	-	3574'SB'+75	LT	IH 43 SB	78	-	APPROACH WEDGE
	3574'SB'+09	-	3578'SB'+33	RT	IH 43 SB	-	425	INSIDE SHOULDER-5" HMA
	3577'SB'+77	-	3578'SB'+33	LT	IH 43 SB	85	-	DEPARTURE WEDGE
	3580'SB'+15	-	3580'SB'+94	LT	IH 43 SB	90	-	APPROACH WEDGE
	3580'SB'+15	-	3582'SB'+49	RT	IH 43 SB	-	175	INSIDE SHOULDER-5" HMA
	3582'SB'+49	-	3583'SB'+99	RT	IH 43 SB	156	-	INSIDE SHOULDER-4" HMA
	3609'SB'+04	-	3610'SB'+54	RT	IH 43 SB	-	156	INSIDE SHOULDER-5" HMA
	3610'SB'+04	-	3610'SB'+54	LT	IH 43 SB	62	-	DEPARTURE WEDGE
	3611'SB'+83	-	3612'SB'+34	LT	IH 43 SB	66	-	APPROACH WEDGE
	3611'SB'+83	-	3613'SB'+35	RT	IH 43 SB	-	158	INSIDE SHOULDER-5" HMA
	3613'SB'+35	-	3614'SB'+85	RT	IH 43 SB	156	-	INSIDE SHOULDER-4" HMA
	3659'SB'+75	-	3661'SB'+25	RT	IH 43 SB	-	156	INSIDE SHOULDER-5" HMA
	3660'SB'+75	-	3661'SB'+25	LT	IH 43 SB	74	-	DEPARTURE WEDGE
	3662'SB'+47	-	3662'SB'+97	LT	IH 43 SB	75	-	APPROACH WEDGE
	3662'SB'+47	-	3663'SB'+97	RT	IH 43 SB	-	158	INSIDE SHOULDER-5" HMA

SAWING PAVEMENT SUMMARY (CONTINUED)

CATEGORY	STATION	TO	STATION	OFFSET	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	REMARKS
	3663'SB'+97	-	3665'SB'+47	RT	IH 43 SB	158	-	INSIDE SHOULDER-4" HMA
	3670'SB'+56	-	3672'SB'+25	RT	IH 43 SB	-	177	INSIDE SHOULDER-5" HMA
	3671'SB'+35	-	3672'SB'+25	LT	IH 43 SB	110	-	DEPARTURE WEDGE
	3673'SB'+97	-	3674'SB'+54	LT	IH 43 SB	62	-	APPROACH WEDGE
	3673'SB'+97	-	3675'SB'+66	RT	IH 43 SB	-	175	INSIDE SHOULDER-5" HMA
	3675'SB'+66	-	3677'SB'+16	RT	IH 43 SB	158	-	INSIDE SHOULDER-4" HMA
	3439'NB'+62	-	3440'NB'+16	RT	IH 43 NB	75	-	APPROACH WEDGE
	3441'NB'+96	-	3442'NB'+51	RT	IH 43 NB	75	-	DEPARTURE WEDGE
	3554'NB'+67	-	3555'NB'+22	RT	IH 43 NB	77	-	APPROACH WEDGE
	3556'NB'+77	-	3557'NB'+33	RT	IH 43 NB	77	-	DEPARTURE WEDGE
	3571'NB'+82	-	3572'NB'+41	RT	IH 43 NB	89	-	APPROACH WEDGE
	3574'NB'+27	-	3574'NB'+88	RT	IH 43 NB	89	-	DEPARTURE WEDGE
	3577'NB'+85	-	3578'NB'+45	RT	IH 43 NB	84	-	APPROACH WEDGE
	3580'NB'+38	-	3581'NB'+03	RT	IH 43 NB	85	-	DEPARTURE WEDGE
	3610'NB'+01	-	3610'NB'+55	RT	IH 43 NB	78	-	APPROACH WEDGE
	3611'NB'+71	-	3612'NB'+21	RT	IH 43 NB	75	-	DEPARTURE WEDGE
	3439'SB'+42	-	3439'SB'+96	LT	IH 43 SB	75	-	DEPARTURE WEDGE
	3441'SB'+76	-	3442'SB'+31	LT	IH 43 SB	75	-	APPROACH WEDGE
	3555'SB'+00	-	3555'SB'+57	LT	IH 43 SB	81	-	DEPARTURE WEDGE
	3557'SB'+03	-	3557'SB'+63	LT	IH 43 SB	88	-	APPROACH WEDGE
	3571'SB'+84	-	3572'SB'+41	LT	IH 43 SB	77	-	DEPARTURE WEDGE
	3574'SB'+15	-	3574'SB'+76	LT	IH 43 SB	84	-	APPROACH WEDGE
	3577'SB'+76	-	3578'SB'+41	LT	IH 43 SB	89	-	DEPARTURE WEDGE
	3580'SB'+25	-	3580'SB'+94	LT	IH 43 SB	96	-	APPROACH WEDGE
	3660'NB'+74	-	3661'NB'+24	RT	IH 43 NB	72	-	APPROACH WEDGE
	3662'NB'+47	-	3662'NB'+97	RT	IH 43 NB	71	-	DEPARTURE WEDGE
	3671'NB'+35	-	3672'NB'+05	RT	IH 43 NB	100	-	APPROACH WEDGE
	3673'NB'+77	-	3674'NB'+49	RT	IH 43 NB	96	-	DEPARTURE WEDGE
	3610'SB'+03	-	3610'SB'+53	LT	IH 43 SB	73	-	DEPARTURE WEDGE
	3611'SB'+82	-	3612'SB'+34	LT	IH 43 SB	73	-	APPROACH WEDGE
	3660'SB'+74	-	3661'SB'+24	LT	IH 43 SB	79	-	DEPARTURE WEDGE
	3662'SB'+46	-	3662'SB'+96	LT	IH 43 SB	82	-	APPROACH WEDGE
	3671'SB'+35	-	3672'SB'+31	LT	IH 43 SB	119	-	DEPARTURE WEDGE
	3674'SB'+02	-	3674'SB'+54	LT	IH 43 SB	76	-	APPROACH WEDGE

PROJECT 1227-08-76 TOTAL 8487 9656

PROJECT NO: 1227-08-76

HWY: IH 43

COUNTY: BROWN

MISCELLANEOUS QUANTITIES

SHEET:

E

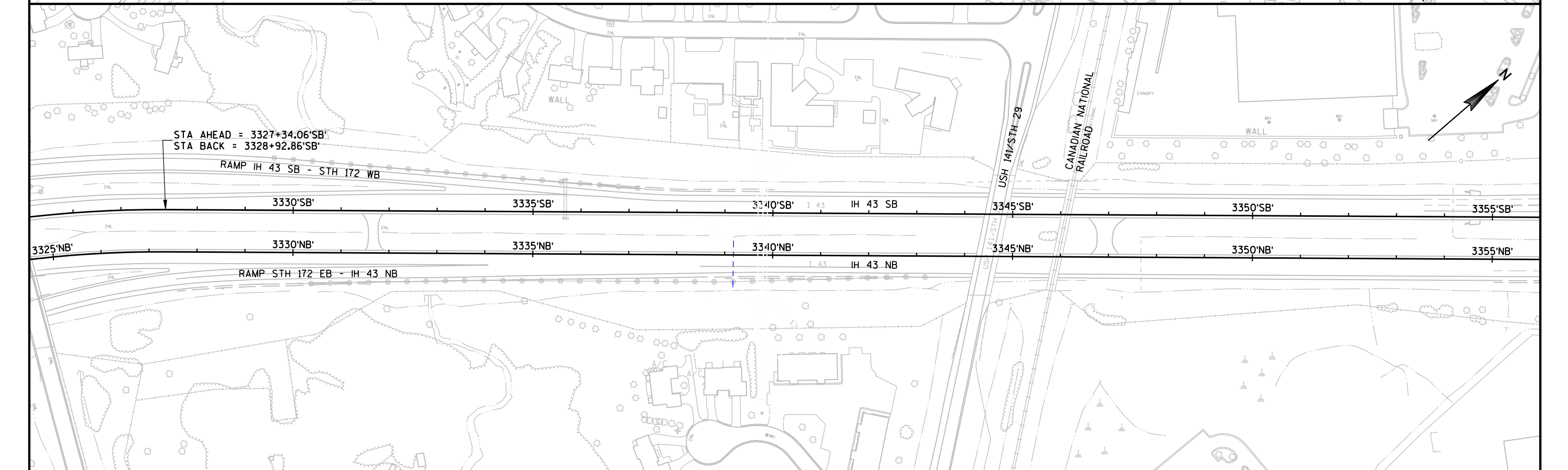
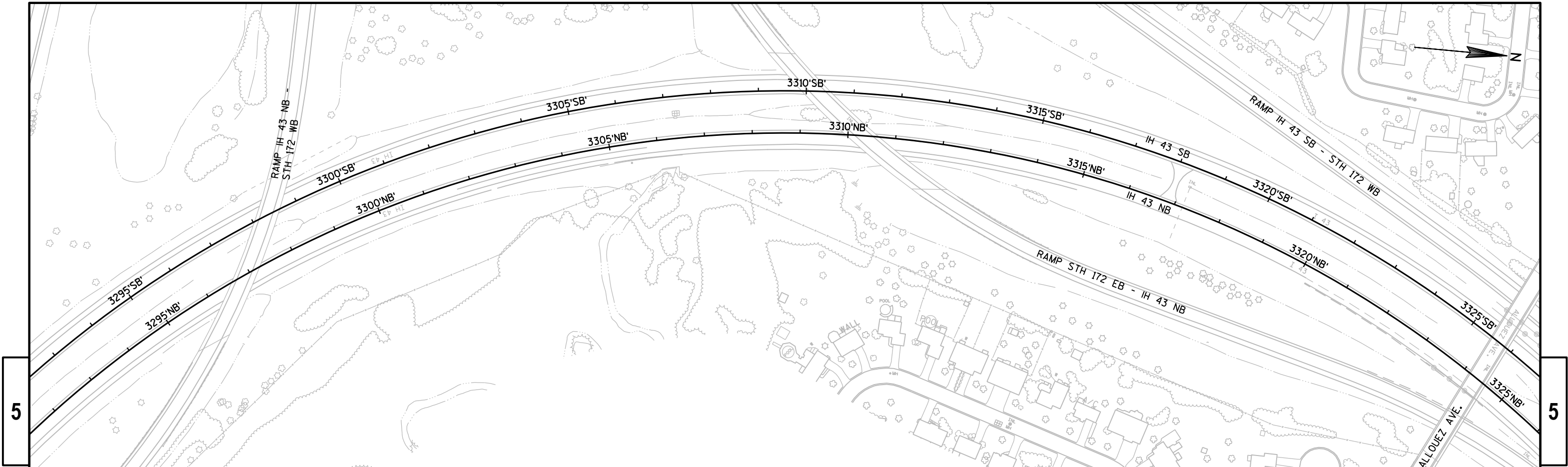
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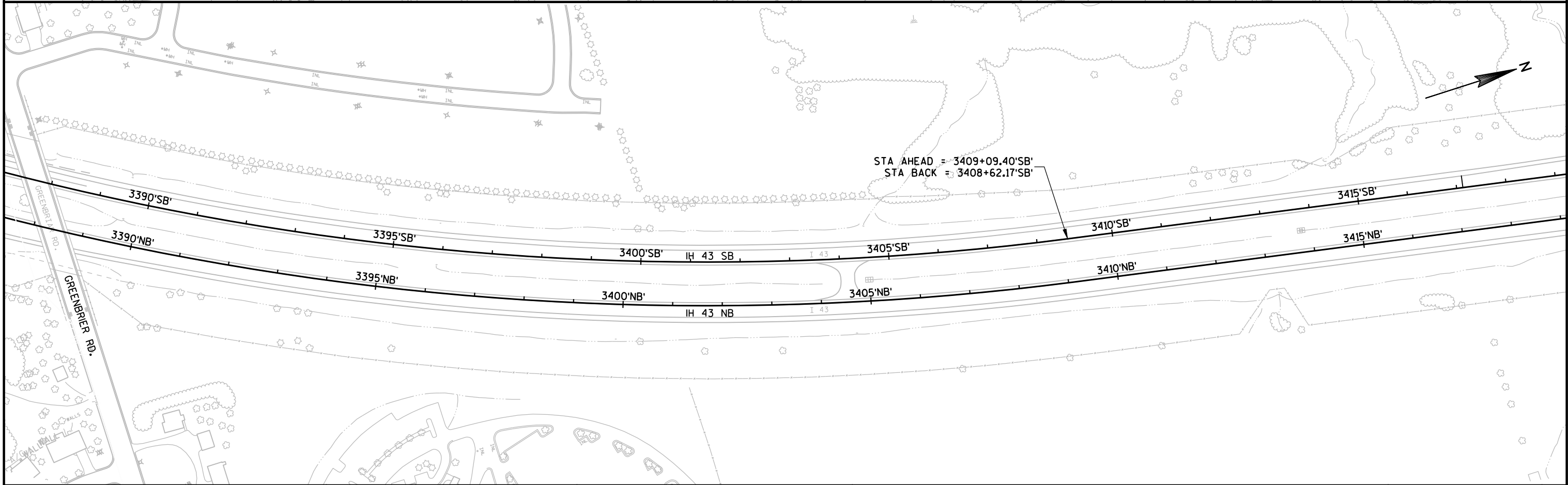
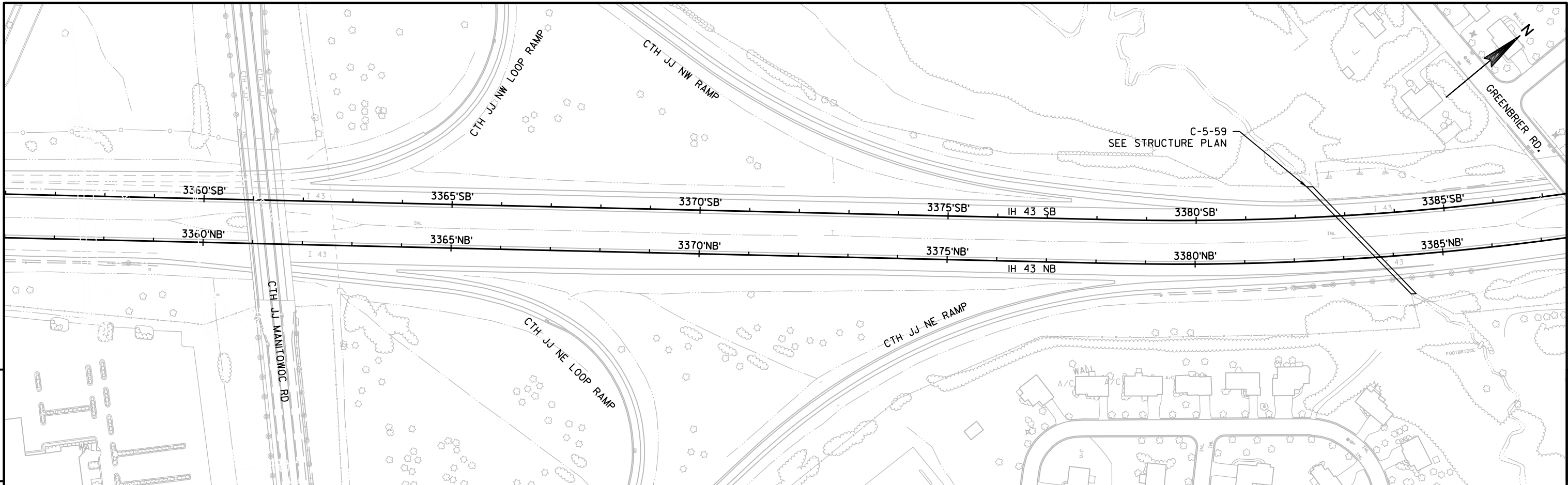
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PLOT NAME : _____

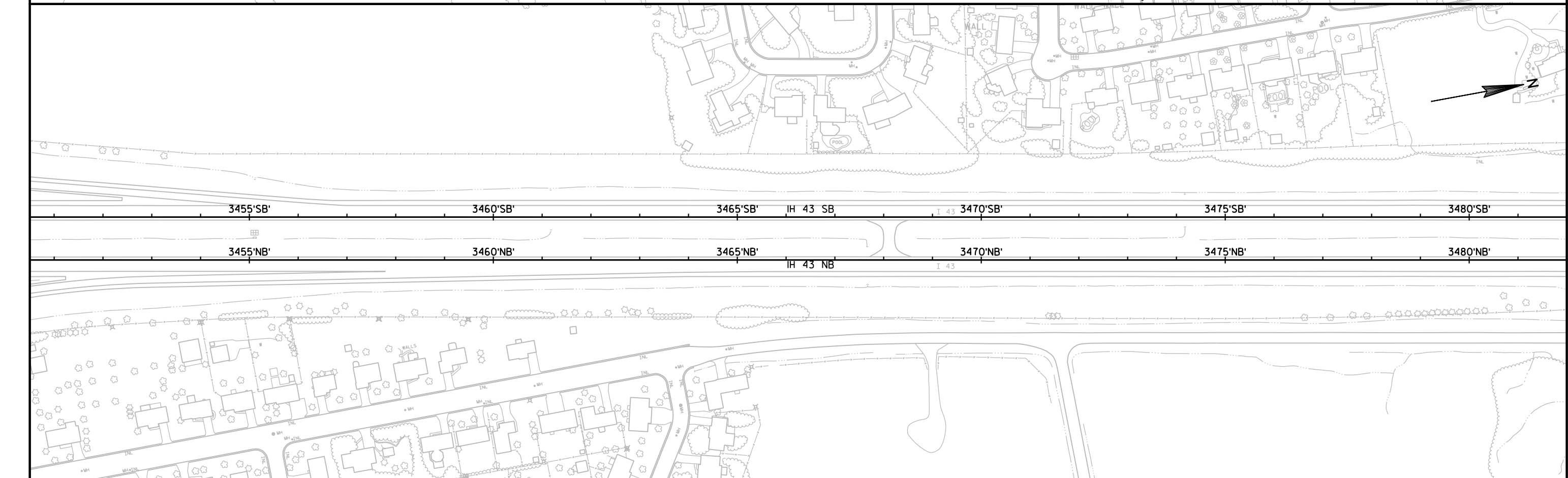
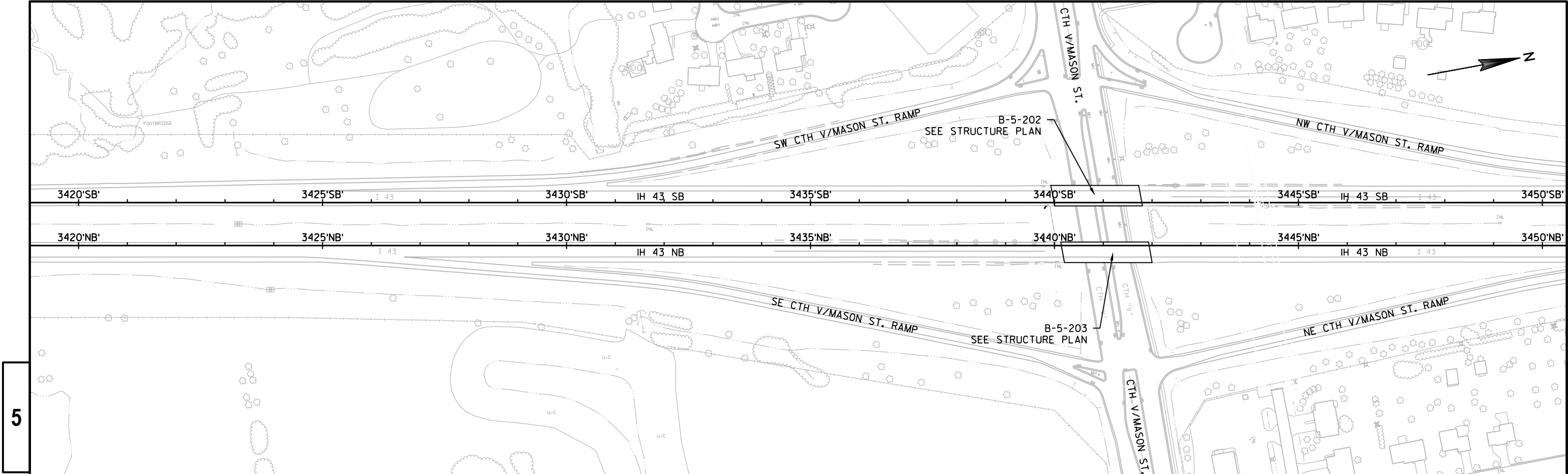
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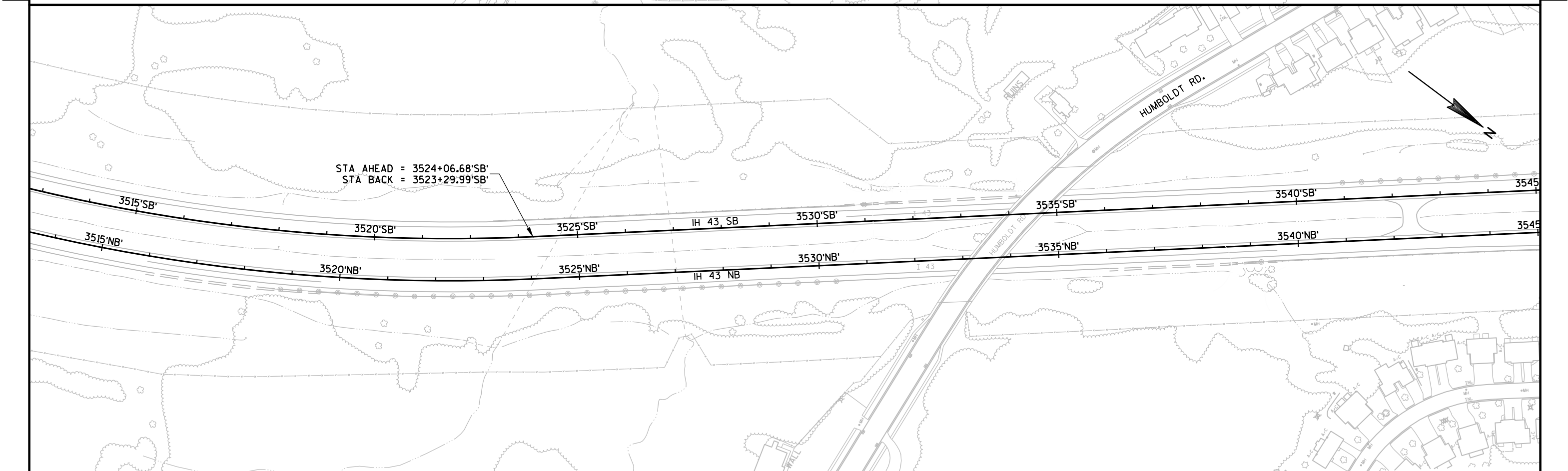
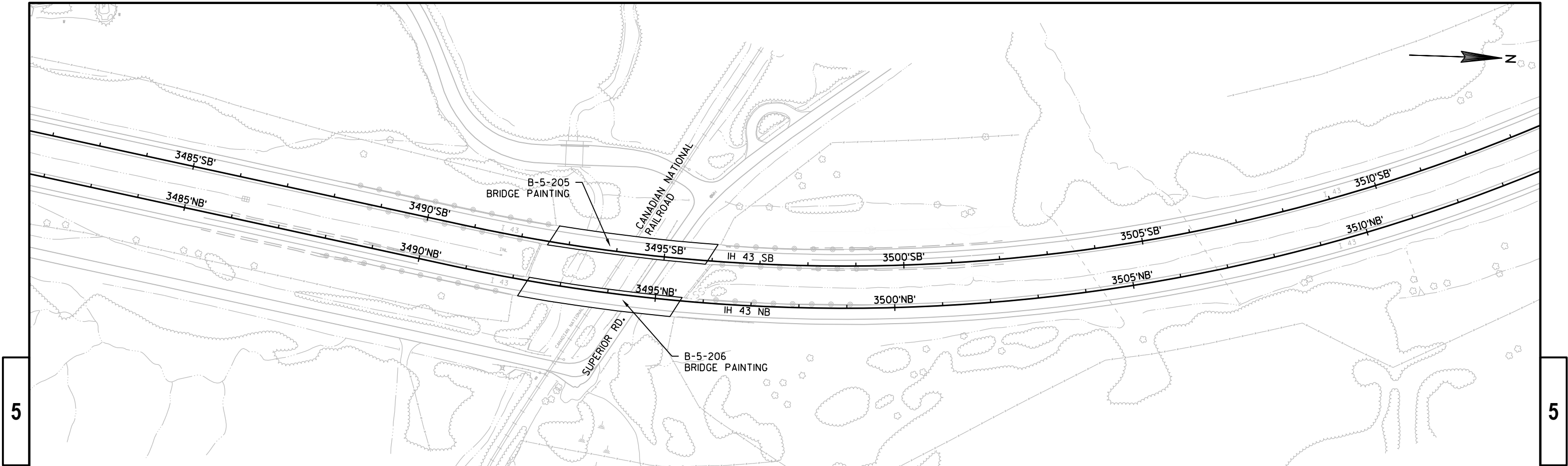
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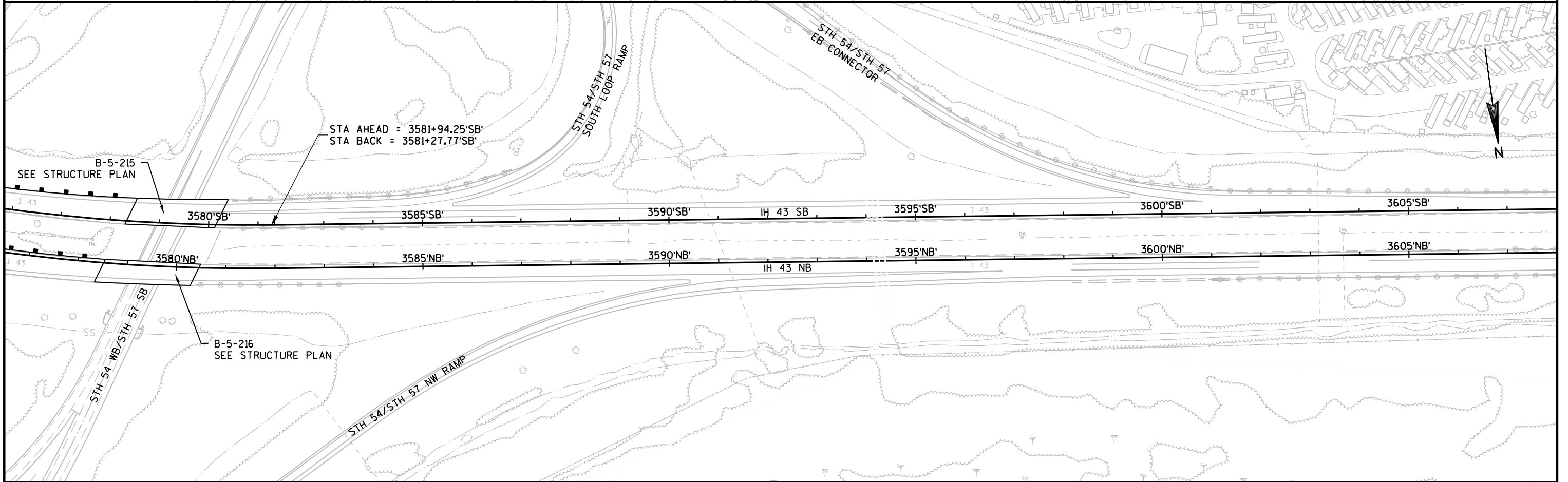
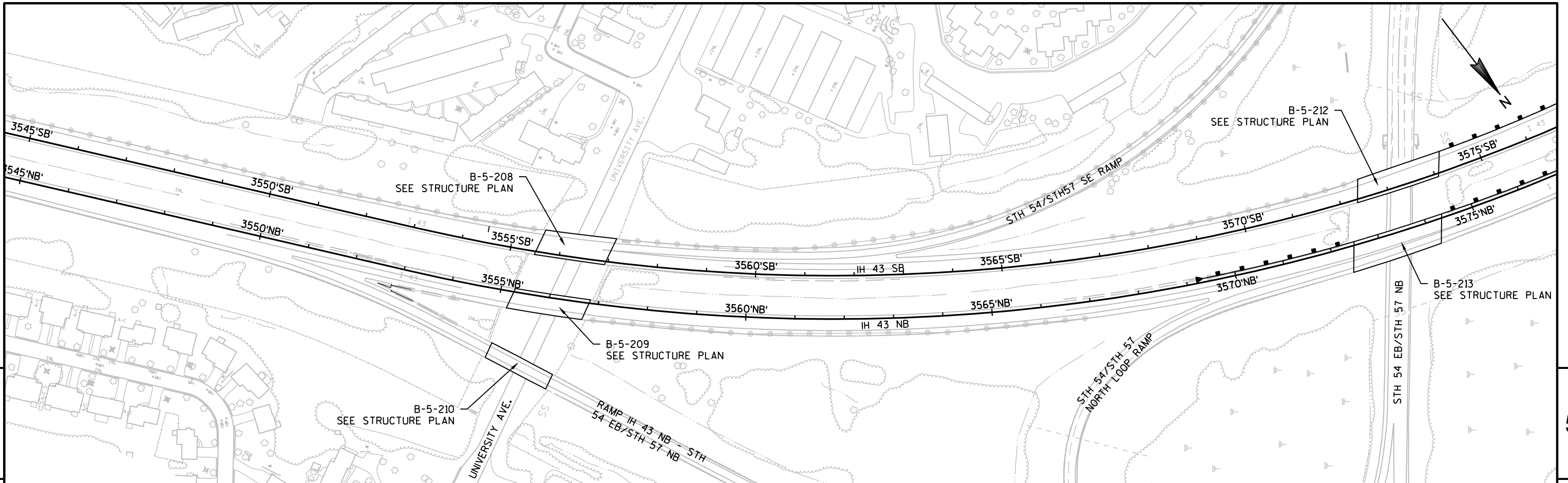
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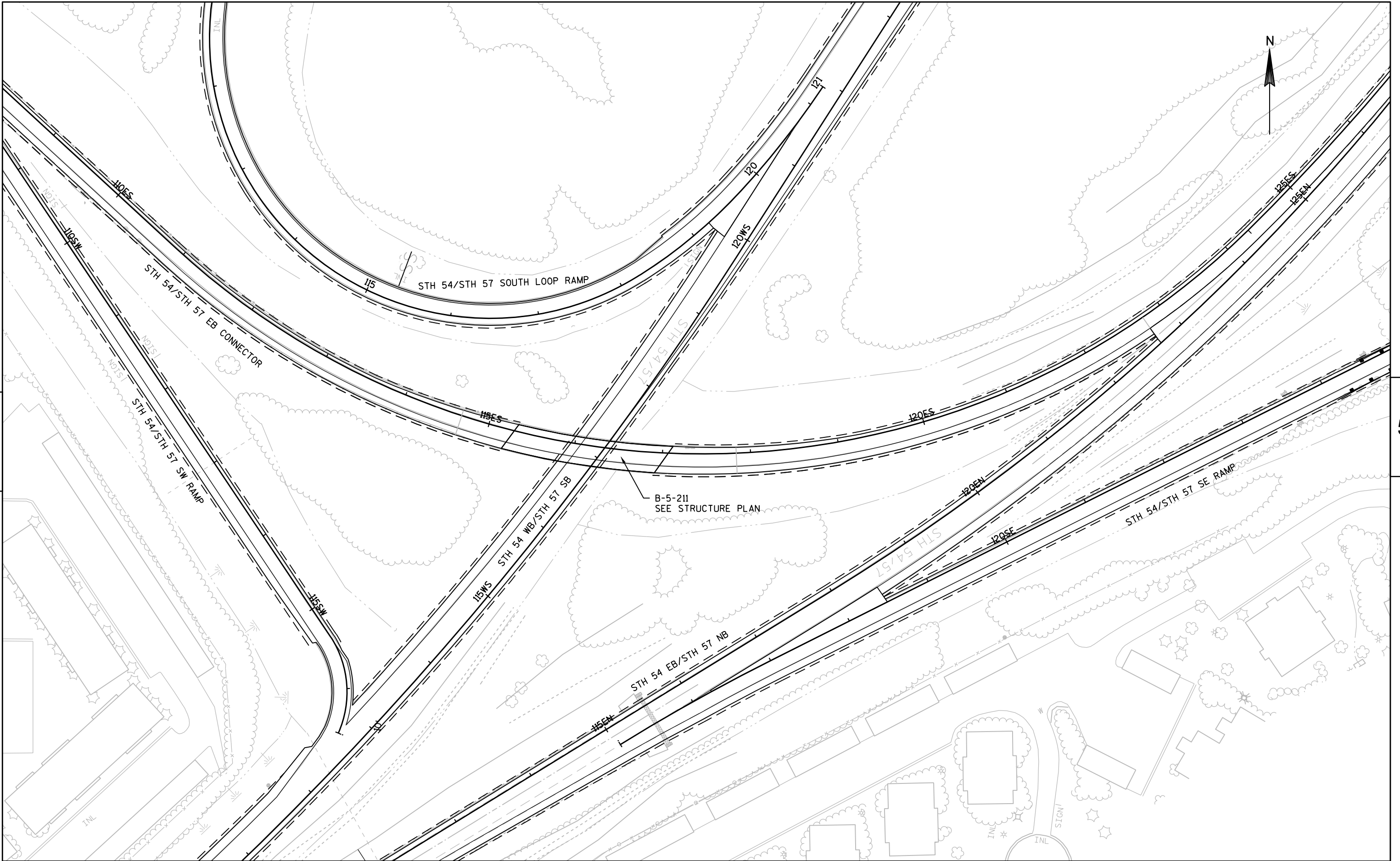
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PROJECT NO: 1227-08-76	HWY: IH 43	COUNTY: BROWN	PLAN: IH 43	SHEET	E
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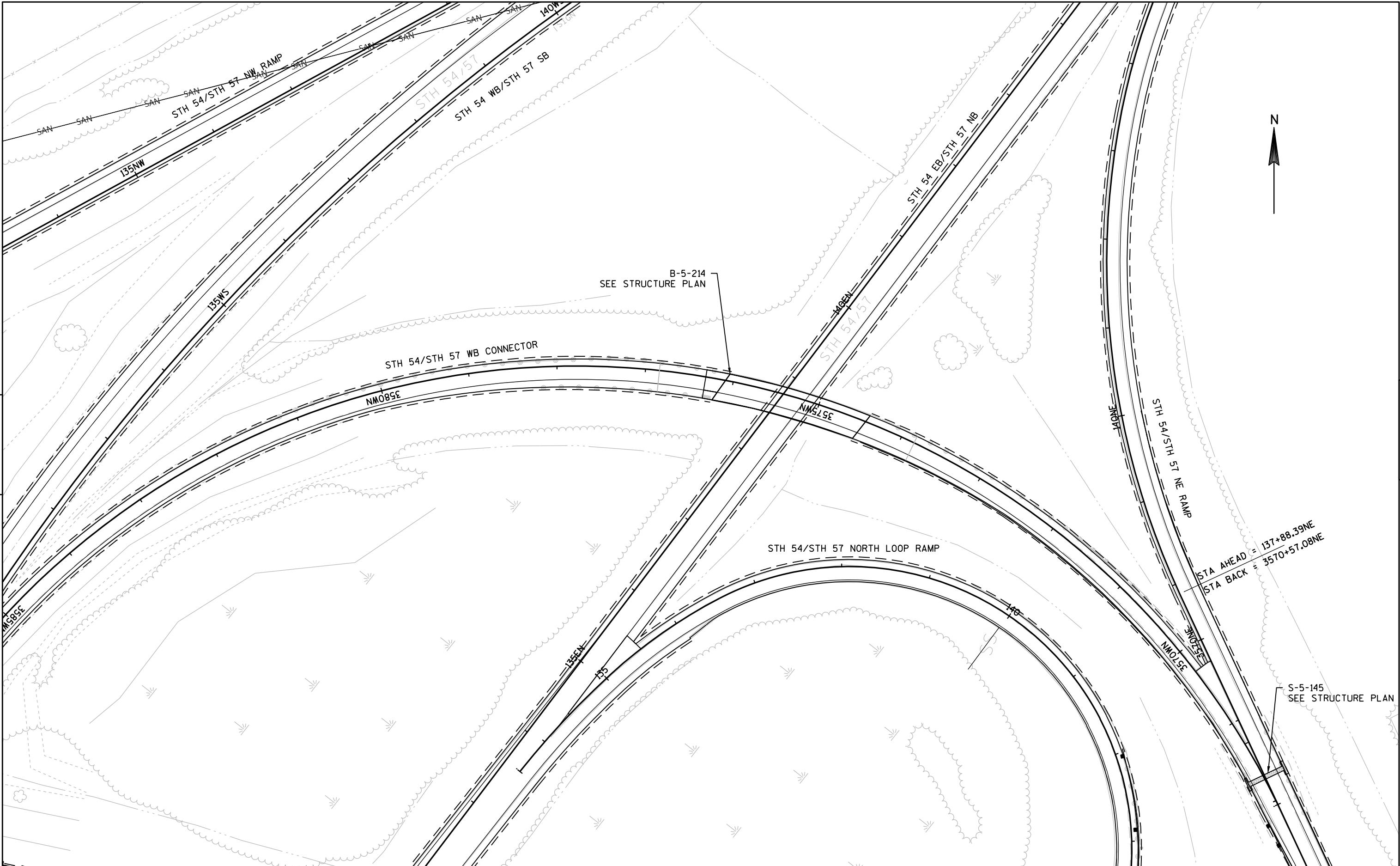
PROJECT NO: 1227-08-76	HWY: IH 43	COUNTY: BROWN	PLAN: IH 43	SHEET E
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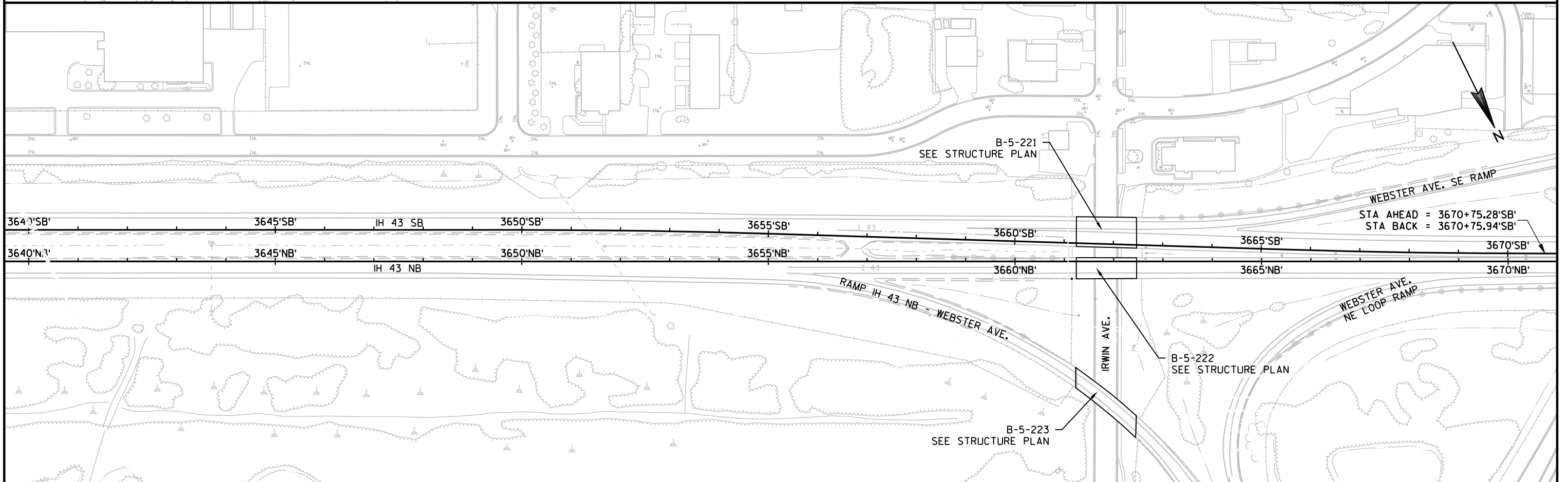
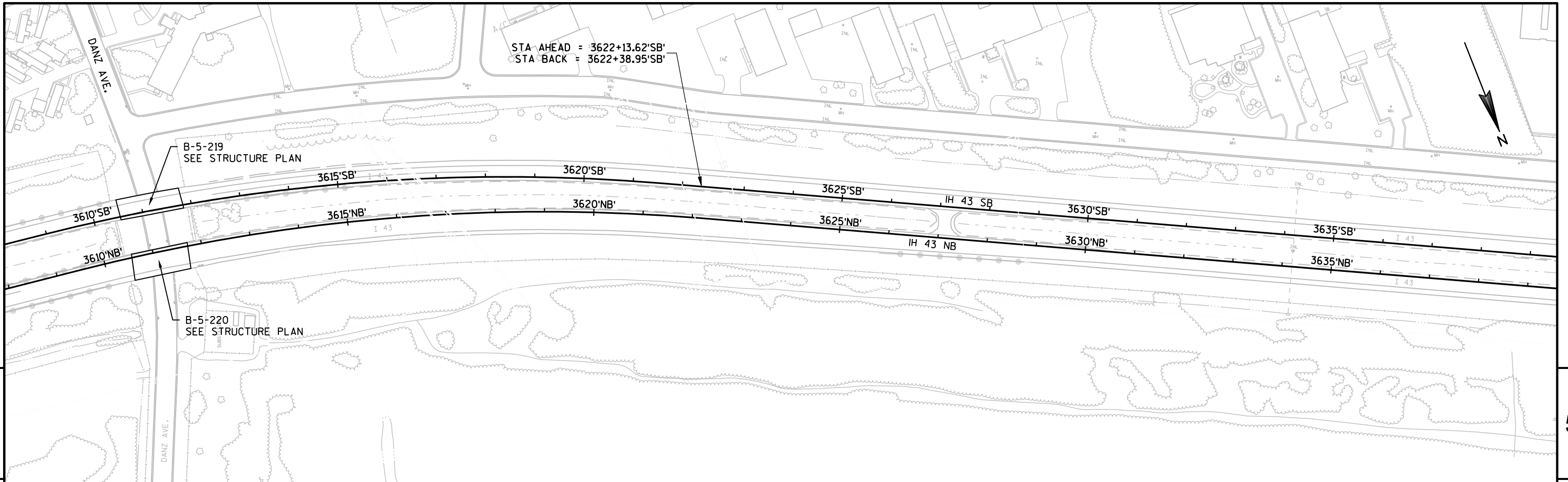
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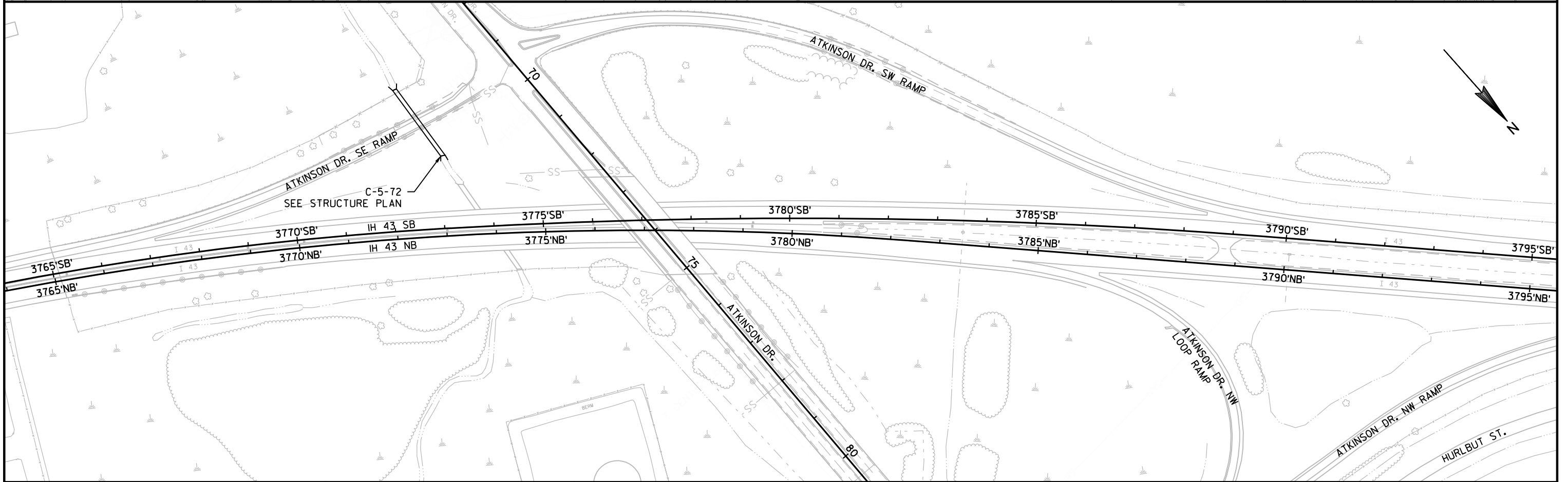
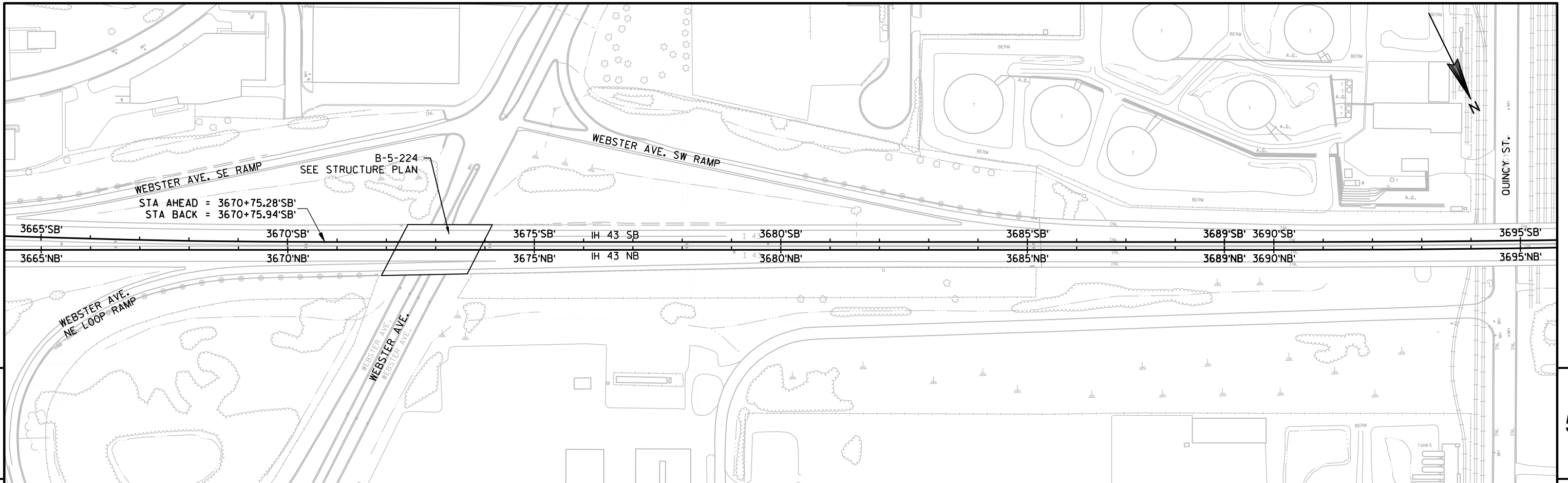
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PROJECT NO: 1227-08-76	HWY: IH 43	COUNTY: BROWN	PLAN - STH 54/STH 57 NE RAMP AND WB CONNECTOR	SHEET	E
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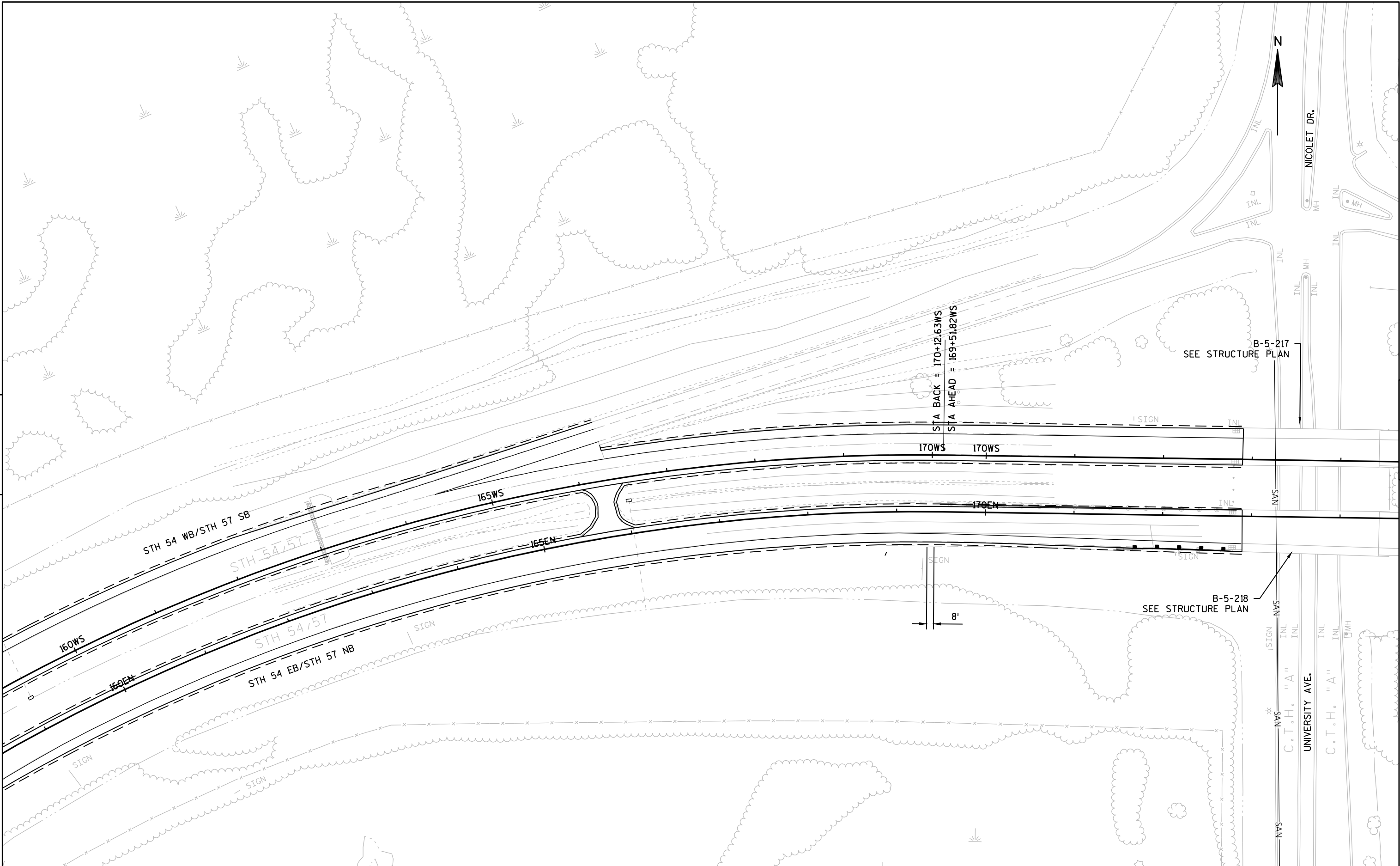


PROJECT NO: 1227-08-76	HWY: IH 43	COUNTY: BROWN	PLAN: IH 43	SHEET	E
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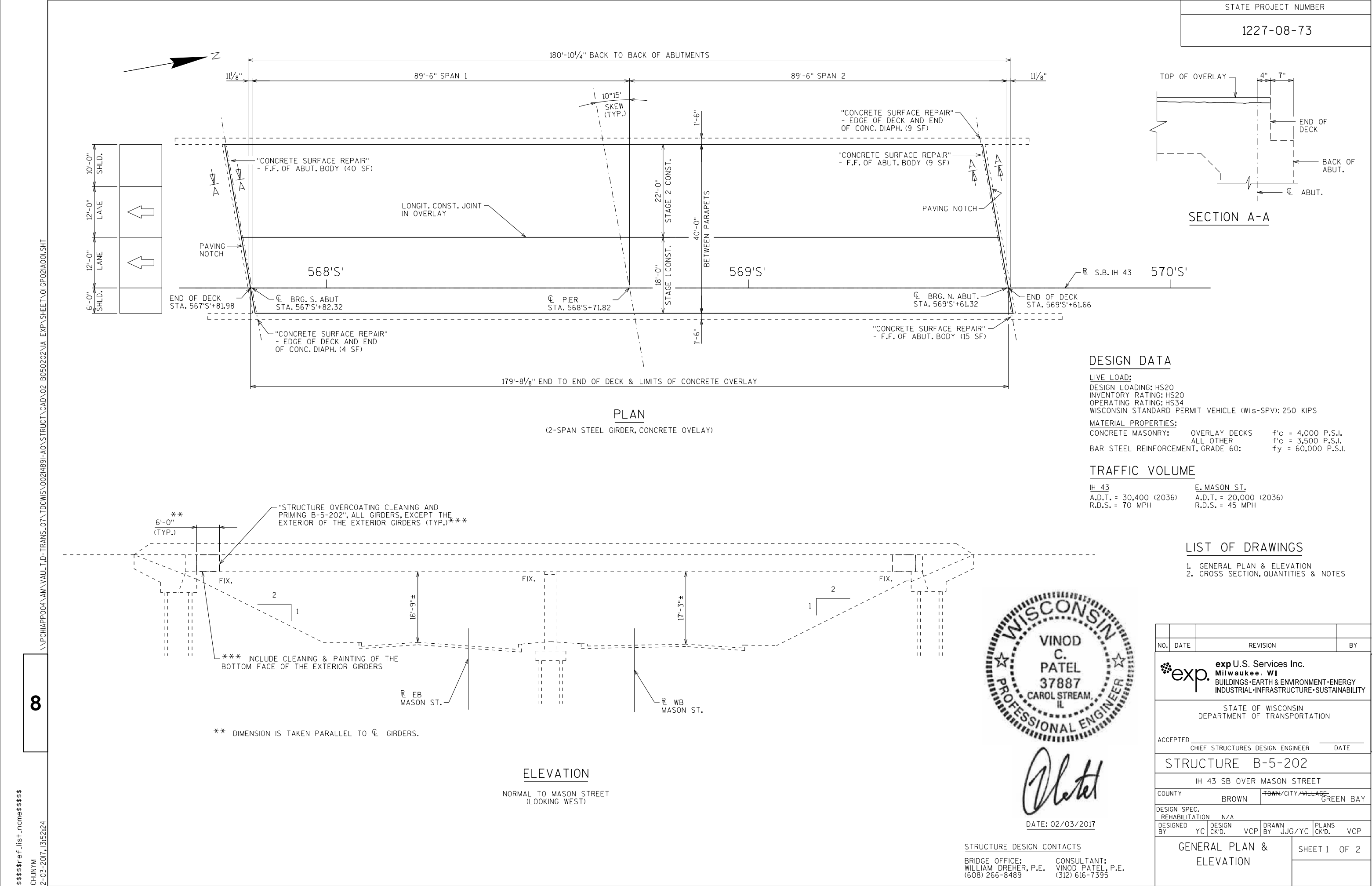
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PROJECT NO: 1227-08-73	HWY: IH 43	COUNTY: BROWN	PLAN STH 54/STH 57	SHEET	E
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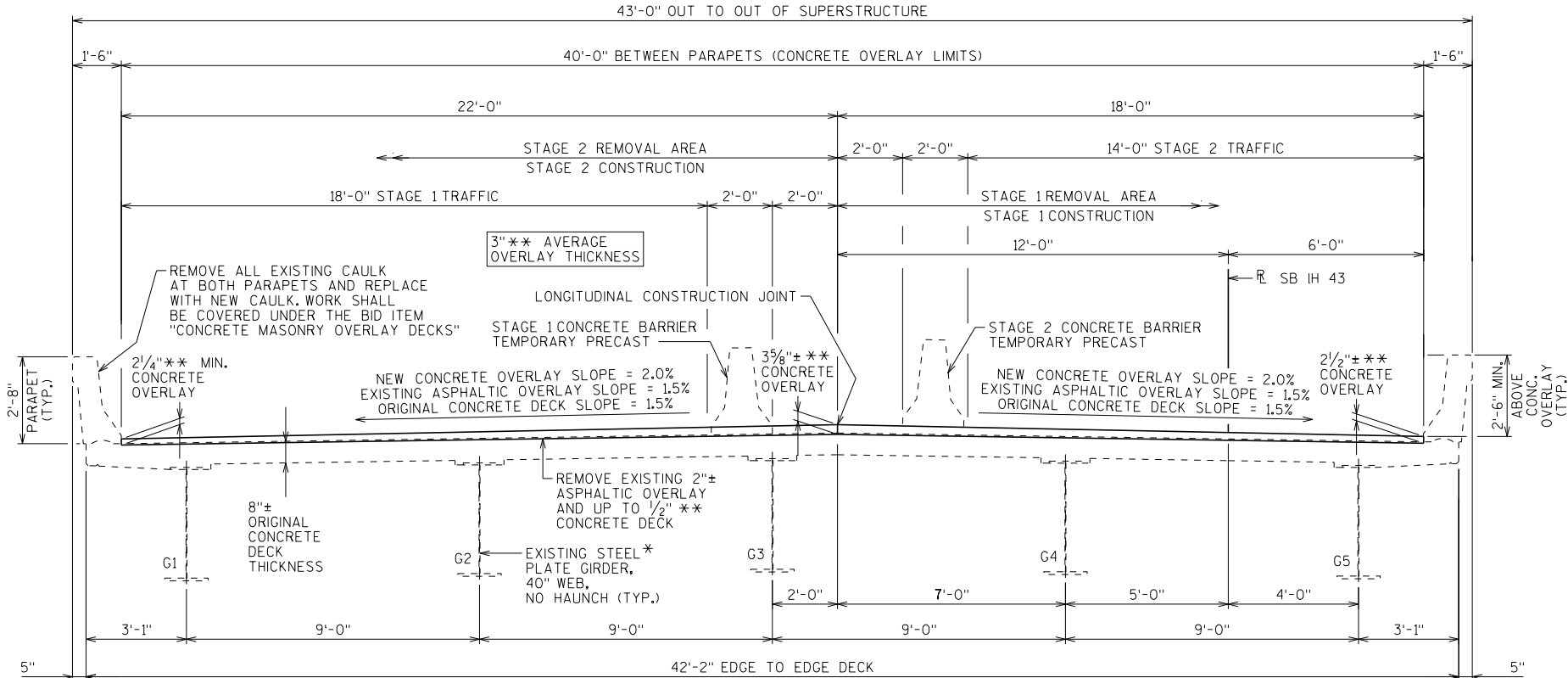
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\\PCHIAPP004\AM\VAUL\I.D-TRANS_07\TDCWIS\00214891-A0\STRUCT\CAD\02_B050202\VA_EXP\Sheet\02_S\02\A001.SHT

8

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	S. ABUT.	N. ABUT.	SUPER.	TOTAL
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	799	799
502.3210	PIGMENTED SURFACE SEALER	SY	8	8	137	153
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	80	80
509.0302	PREPARATION DECKS TYPE 2	SY	-	-	30	30
509.0500	CLEANING DECKS	SY	-	-	799	799
509.1500	CONCRETE SURFACE REPAIR	SF	40	24	13	77
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	1	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	-	-	73	73
509.9010.S.01	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-202	SY	-	-	799	799
509.9050.S	CLEANING PARAPETS	LF	23	23	360	406
517.3000.S.02	STRUCTURE OVERCOATING CLEANING AND PRIMING B-5-202	LS	-	-	-	1
517.4000.S.02	CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-5-202	LS	-	-	-	1

BID ITEM "CONCRETE MASONRY OVERLAY DECKS" ALSO INCLUDES CONCRETE FOR:
"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR".
THE QUANTITIES OF "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" ARE
BASED ON AN INFRARED THERMOGRAPHIC DECK SURVEY REPORT.



CROSS SECTION THRU DECK LOOKING NORTH

* WEATHERING STEEL
** THE OVERLAY THICKNESS INCLUDES 1/2" THICKNESS OF CONCRETE REMOVAL FROM ORIGINAL CONCRETE DECK.

STATE PROJECT NUMBER

1227-08-73

GENERAL NOTES

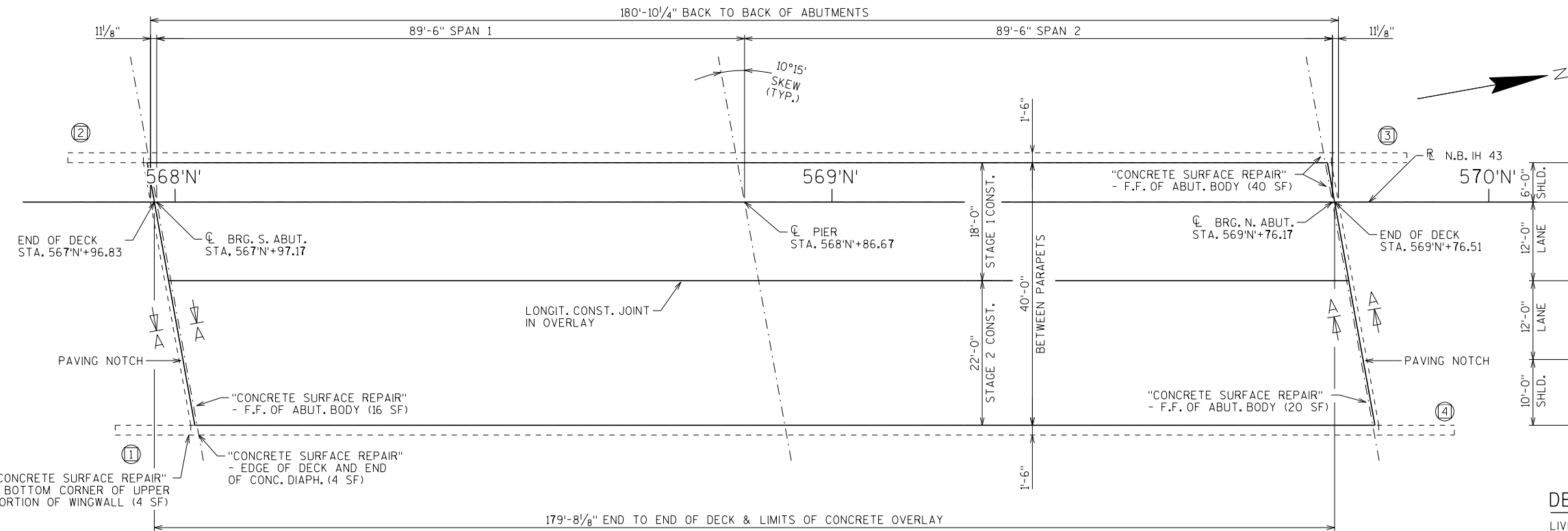
DRAWINGS SHALL NOT BE SCALED.
DIMENSIONS OF EXISTING STRUCTURE MEMBERS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
THE EXISTING BITUMINOUS ASPHALTIC OVERLAY SHALL BE REMOVED FROM THE BRIDGE DECK UNDER BID ITEM "REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-202".
AFTER REMOVING EXISTING ASPHALTIC OVERLAY, UP TO 1/2" OF CONCRETE SHALL BE REMOVED FROM ORIGINAL BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".
"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", "CONCRETE SURFACE REPAIR", AND "FULL-DEPTH DECK REPAIR" AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.
ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1 INCH DEEP SAW CUT.
PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 2 1/4" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION, EXPECTED AVERAGE OVERLAY THICKNESS IS AS GIVEN ON THE PLANS. IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.
ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY AT ABUTMENTS IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".
UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND MINIMUM 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

CLEAN AND PAINT THE END 6 FEET OF ALL STRUCTURAL WEATHERING STEEL AT BOTH ABUTMENTS, EXCEPT THE EXTERIOR OF THE EXTERIOR GIRDERS. USE A FEDERAL STANDARD COLOR NO. 20059 (BROWN) FOR THE TOP COAT.
CLEAN THE INSIDE FACES AND TOP SURFACE OF THE EXISTING CONCRETE PARAPETS. PARAPET JOINTS SHALL BE CLEANED AND RE-SEALED WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. INCLUDE IN BID ITEM "CLEANING PARAPETS".
APPLY "PROTECTIVE SURFACE TREATMENT" TO THE EXPOSED DECK SURFACE OF THE NEW CONCRETE OVERLAY BETWEEN PARAPETS.
APPLY "PIGMENTED SURFACE SEALER" ON THE INSIDE AND TOP FACES OF PARAPETS, INCLUDING PARAPETS ON ABUTMENT WINGS.

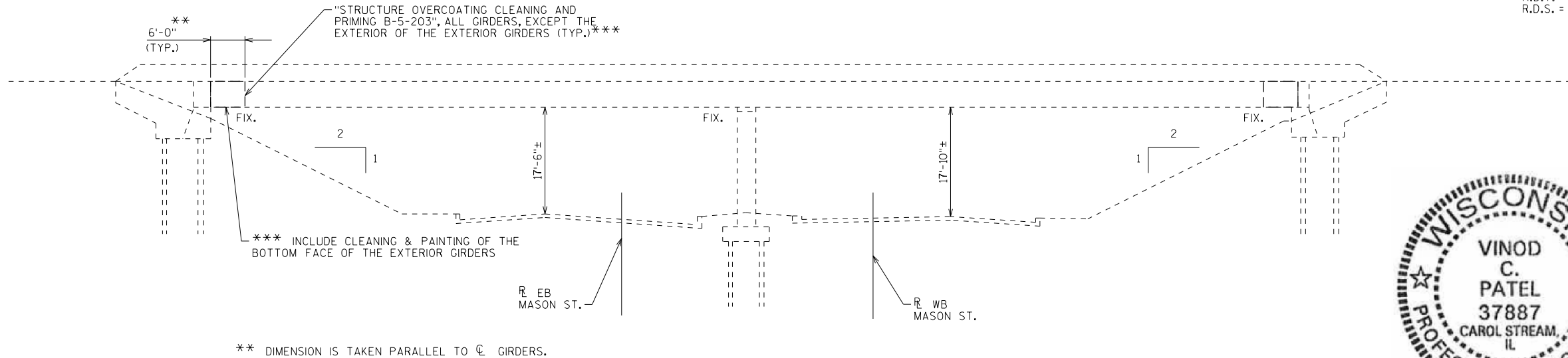
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-202			
		DRAWN BY YC	PLANS CK'D. VCP
CROSS SECTION, QUANTITIES & NOTES			SHEET 2 OF 2

8

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CHUNYM
2-03-2017, 13:56:02



PLAN
(2-SPAN STEEL GIRDER, CONCRETE OVERLAY)



ELEVATION
NORMAL TO MASON STREET
(LOOKING WEST)

DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HS20
INVENTORY RATING: HS20
OPERATING RATING: HS34
WISCONSIN STANDARD PERMIT VEHICLE (Wis-SPV): 250 KIPS

MATERIAL PROPERTIES:
CONCRETE MASONRY: OVERLAY DECKS f'c = 4,000 P.S.I.
ALL OTHER f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60: fy = 60,000 P.S.I.

TRAFFIC VOLUME

IH 43
A.D.T. = 30,400 (2036)
R.D.S. = 70 MPH
E. MASON ST.
A.D.T. = 20,000 (2036)
R.D.S. = 45 MPH

LIST OF DRAWINGS

- GENERAL PLAN & ELEVATION
- CROSS SECTION, QUANTITIES & NOTES



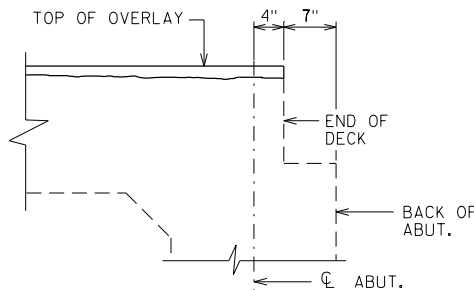
DATE: 02/03/2017

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE: WILLIAM DREHER, P.E. (608) 266-8489
CONSULTANT: VINOD PATEL, P.E. (312) 616-7395

STATE PROJECT NUMBER

1227-08-73



SECTION A-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED: _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-5-203

IH 43 NB OVER MASON STREET

COUNTY BROWN TOWN/CITY/VILLAGE GREEN BAY

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY YC DESIGN CK'D. VCP DRAWN BY JJG/YC PLANS CK'D. VCP

GENERAL PLAN &
ELEVATION

SHEET 1 OF 2

FILENAME
SCALE

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	S. ABUT.	N. ABUT.	SUPER.	TOTAL
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	799	799
502.3210	PIGMENTED SURFACE SEALER	SY	8	8	137	153
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	80	80
509.0302	PREPARATION DECKS TYPE 2	SY	-	-	30	30
509.0500	CLEANING DECKS	SY	-	-	799	799
509.1500	CONCRETE SURFACE REPAIR	SF	20	60	4	84
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	1	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	-	-	73	73
509.9010.S.02	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-203	SY	-	-	799	799
509.9050.S	CLEANING PARAPETS	LF	23	23	360	406
517.3000.S.03	STRUCTURE OVERCOATING CLEANING AND PRIMING B-5-203	LS	-	-	-	1
517.4000.S.03	CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-5-203	LS	-	-	-	1

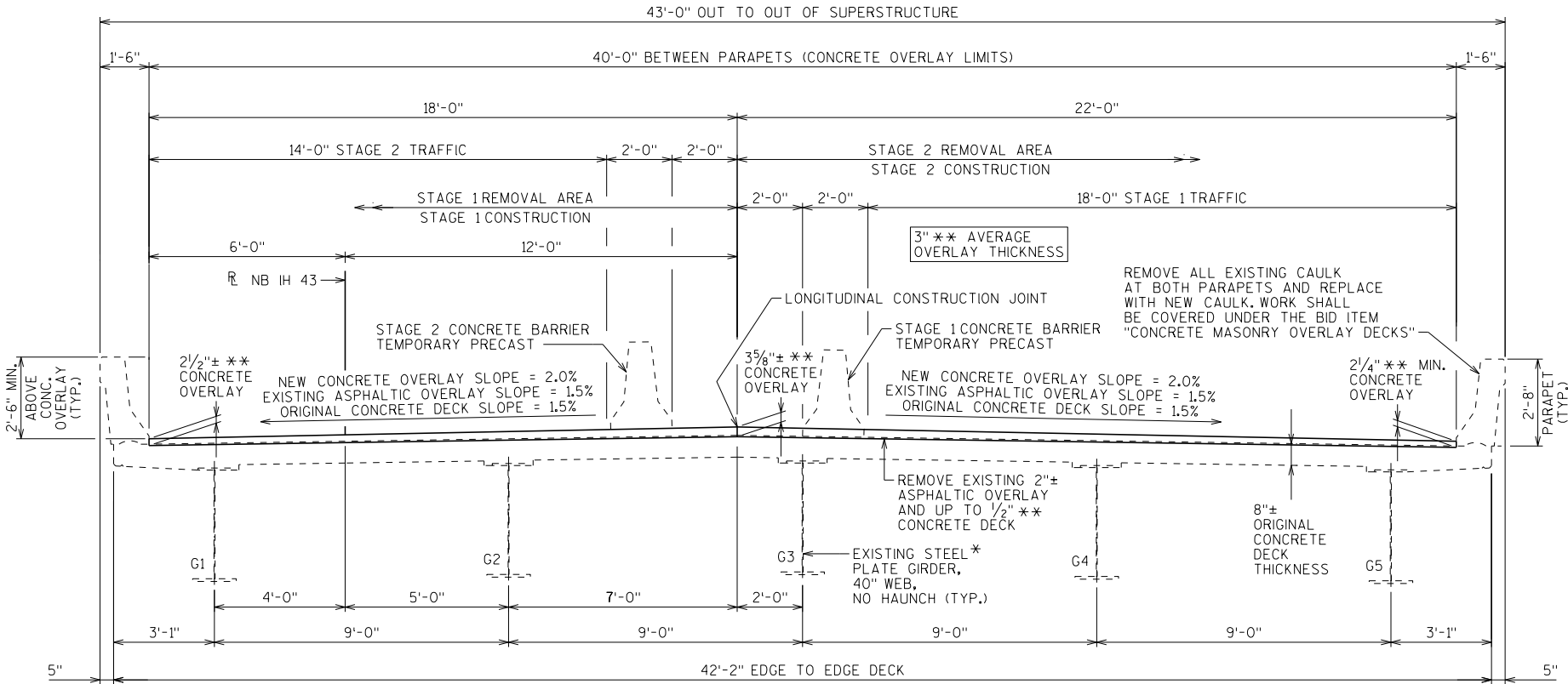
BID ITEM "CONCRETE MASONRY OVERLAY DECKS" ALSO INCLUDES CONCRETE FOR:
"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR".
THE QUANTITIES OF "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" ARE
BASED ON AN INFRARED THERMOGRAPHIC DECK SURVEY REPORT.

GENERAL NOTES

- DRAWINGS SHALL NOT BE SCALED.
- DIMENSIONS OF EXISTING STRUCTURE MEMBERS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
- THE EXISTING BITUMINOUS ASPHALTIC OVERLAY SHALL BE REMOVED FROM THE BRIDGE DECK UNDER BID ITEM "REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-203".
- AFTER REMOVING EXISTING ASPHALTIC OVERLAY, UP TO 1/2" OF CONCRETE SHALL BE REMOVED FROM ORIGINAL BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".
- "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", "CONCRETE SURFACE REPAIR", AND "FULL-DEPTH DECK REPAIR" AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.
- ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1INCH DEEP SAW CUT.
- PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 2 1/4" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS AS GIVEN ON THE PLANS. IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.
- ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY AT ABUTMENTS IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".
- UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND MINIMUM 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.
- CLEAN AND PAINT THE END 6 FEET OF ALL STRUCTURAL WEATHERING STEEL AT BOTH ABUTMENTS, EXCEPT THE EXTERIOR OF THE EXTERIOR GIRDERS. USE A FEDERAL STANDARD COLOR NO. 20059 (BROWN) FOR THE TOP COAT.
- CLEAN THE INSIDE FACES AND TOP SURFACE OF THE EXISTING CONCRETE PARAPETS. PARAPET JOINTS SHALL BE CLEANED AND RE-SEALED WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. INCLUDE IN BID ITEM "CLEANING PARAPETS".

APPLY "PROTECTIVE SURFACE TREATMENT" TO THE EXPOSED DECK SURFACE OF THE NEW CONCRETE OVERLAY BETWEEN PARAPETS.

APPLY "PIGMENTED SURFACE SEALER" ON THE INSIDE AND TOP FACES OF PARAPETS, INCLUDING PARAPETS ON ABUTMENT WINGS.

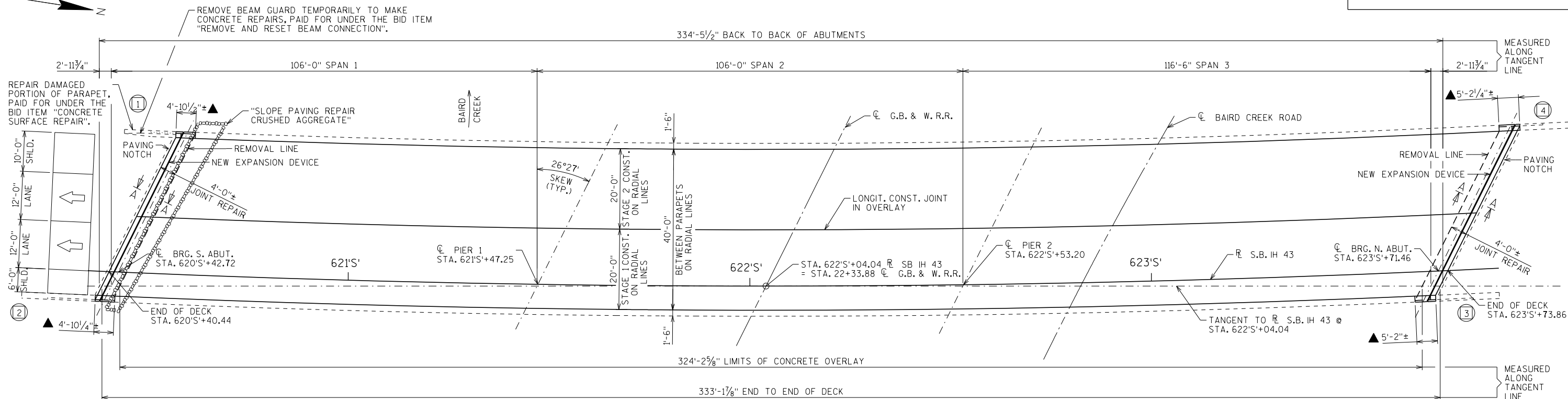


CROSS SECTION THRU DECK LOOKING NORTH

* WEATHERING STEEL

** THE OVERLAY THICKNESS INCLUDES 1/2" THICKNESS OF CONCRETE REMOVAL FROM ORIGINAL CONCRETE DECK.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-203			
		DRAWN BY YC	PLANS CK'D. VCP
CROSS SECTION, QUANTITIES & NOTES			SHEET 2 OF 2



PLAN

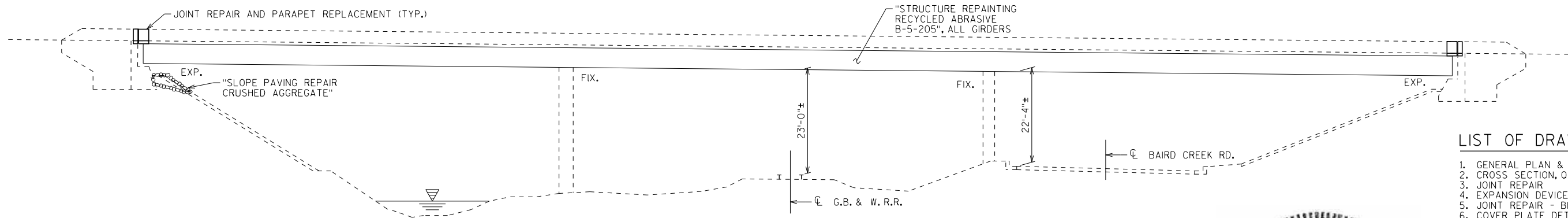
(3-SPAN STEEL GIRDER, CONCRETE OVERLAY)



INDICATES WINGWALL NUMBER



PARAPET REPLACEMENT AREA. SEE SHEET -- FOR DETAILS.



ELEVATION

NORMAL TO G.B. & W.R.R. (LOOKING WEST)

CURVE DATA

R S.B. IH 43
PI = STA. 635'S+98.28
Δ = 49°-55'-50"
D = 1°-32'-07"
T = 1737.37'
L = 3252.01'
R = 3731.72'
SE = 5.3%
RO = 240'

DESIGN DATA

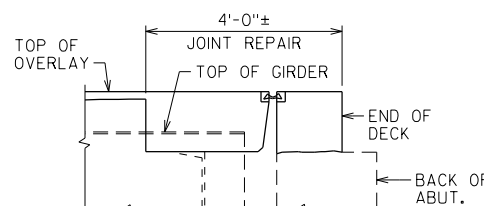
LIVE LOAD:
DESIGN LOADING: HS20
INVENTORY RATING: HS19
OPERATING RATING: HS33
WISCONSIN STANDARD PERMIT VEHICLE (Wis-SPV): 190 KIPS

MATERIAL PROPERTIES:
CONCRETE MASONRY: OVERLAY DECKS f'c = 4,000 P.S.I.
ALL OTHER f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60: fy = 60,000 P.S.I.

TRAFFIC VOLUME

IH 43
A.D.T. = 50,400 (2036)
R.D.S. = 70 MPH

BAIRD CREEK ROAD
A.D.T. = 500 (2036)
R.D.S. = 35 MPH



SECTION A-A

SEE SHEET -- FOR DETAILS.



DATE: 02/03/2017

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE:
WILLIAM DREHER, P.E.
(608) 266-8489

CONSULTANT:
VINOD PATEL, P.E.
(312) 616-7395

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. CROSS SECTION, QUANTITIES & NOTES
3. JOINT REPAIR
4. EXPANSION DEVICE
5. JOINT REPAIR - BILL OF BARS
6. COVER PLATE DETAILS

NO.	DATE	REVISION	BY
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exp. **exp U.S. Services Inc.**
Milwaukee, WI
BUILDINGS • EARTH & ENVIRONMENT • ENERGY
INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED: _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-5-205

IH 43 SB OVER BAIRD CREEK ROAD

COUNTY BROWN TOWN/CITY/VILLAGE GREEN BAY

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY YC DESIGN CK'D. VCP DRAWN BY JUG/YC PLANS CK'D. VCP

GENERAL PLAN &
ELEVATION

SHEET 1 OF 6

\\PCHAPP004\AM\VAUL\I.D--TRANS_07\TDC\WIS\00214891-A0\STRUCT\CAD\05_B050205\1A_EXP\SHEET\01\GP05\A001.SHT

\\S\05\A001.DGN, ..\BD05\A001.DGN, ..\STAMPS\IGN.DGN, ..\SU05\A001.DGN, ..\GP88\A001.SHT, ..\BDP2\A001.DGN, ..\BE05\A001.DGN

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GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS OF EXISTING STRUCTURE MEMBERS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THE EXISTING CONCRETE OVERLAY SHALL BE REMOVED FROM THE BRIDGE DECK UNDER BID ITEM "REMOVING CONCRETE MASONRY DECK OVERLAY B-5-205".

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", "CONCRETE SURFACE REPAIR", AND "FULL-DEPTH DECK REPAIR" AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.

ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1 INCH DEEP SAW CUT.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 3" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS AS GIVEN ON THE PLANS. IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

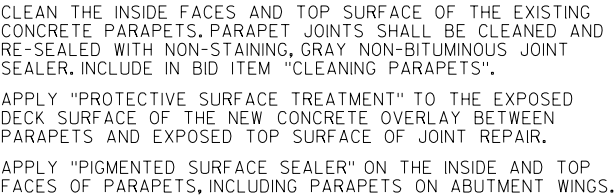
ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY OR JOINT REPAIRS AT ABUTMENTS IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

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

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

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

APPLY BRIDGE SEAT PROTECTION, AS PER SECTION 502.3.12 OF
THE STANDARD SPECIFICATIONS, TO THE TOP SURFACES OF BOTH
ABUTMENTS BELOW EXPANSION DEVICES. POWER WASH AND
ADEQUATELY DRY SURFACES BEFORE APPLICATION. WORK TO BE
INCIDENTAL TO "JOINT REPAIR".



NOTES

ALL REMOVAL LINES SHALL BE DEFINED BY A 1" DEEP SAW-CUT.

REBUILD NEW PARAPET, WING AND DECK AREAS TO MATCH THE EXISTING PARAPET, WING AND DECK. SEE SHEET 5 FOR NEW PARAPET DETAILS.

PARAPET REPLACEMENT SHALL BE INCLUDED UNDER THE BID ITEM "JOINT REPAIR".

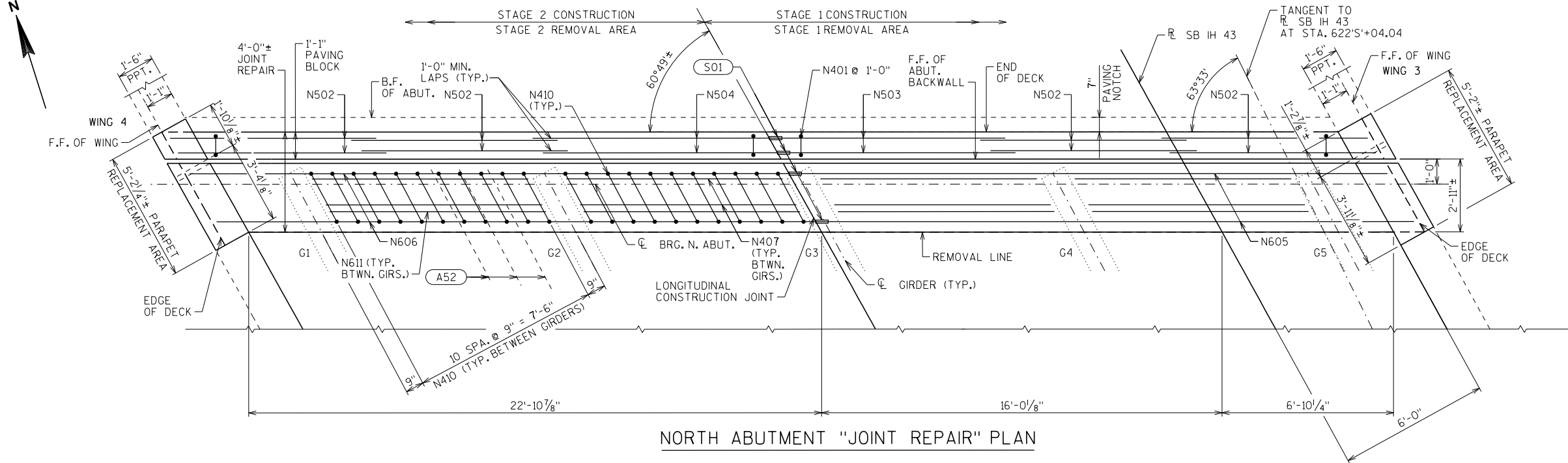
(A52) SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.

THE NEW ADDITIONAL HORIZONTAL REINFORCEMENT REQUIRED IN THE PARAPETS SHALL BE TIED TO THE EXISTING HORIZONTAL REINFORCEMENT.

★ IF EXISTING BARS ARE SEVERELY CORRODED OR DAMAGED DURING CONCRETE REMOVAL, REPLACE WITH BARS N525 ANCHORED WITH ADHESIVE ANCHORS. NO. 5 BAR, EMBED BARS 1'-0" MIN. INTO EXISTING CONC. PLACE 4" CL. MIN. OF VERT. CONC. FACE.

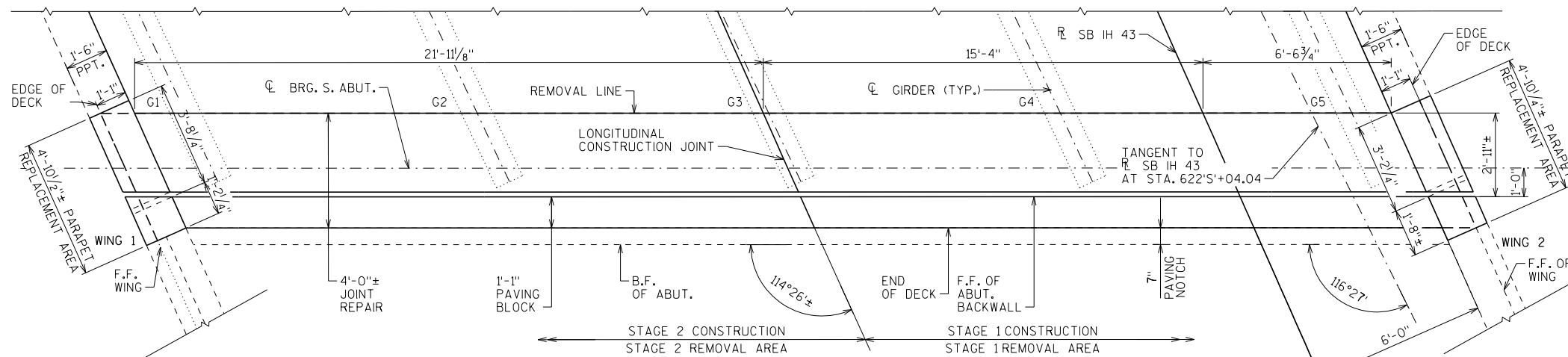
(S01) BAR COUPLERS USED. BAR LENGTH COMPUTED TO CL OF LONGIT. JOINT & SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURERS' RECOMMENDATIONS.

NORTH ABUTMENT "JOINT REPAIR" PLAN



SOUTH ABUTMENT "JOINT REPAIR" PLAN

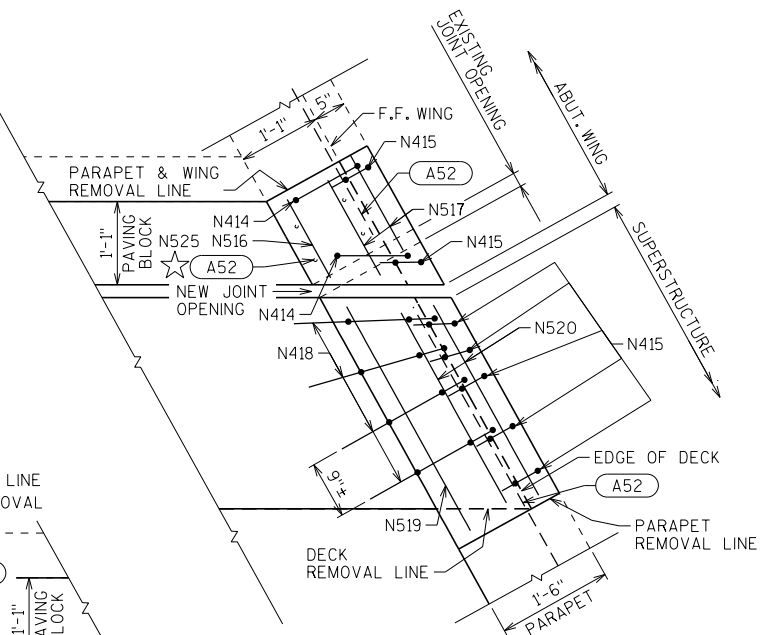
STEEL REINFORCEMENT NOT SHOWN.
STEEL REINFORCEMENT SIMILAR TO THE NORTH ABUTMENT JOINT REPAIR.
BAR MARKS START WITH 'S' FOR S. ABUT.



PLAN DETAIL OF PARAPET REPLACEMENT AREA

AT WING CORNER 3

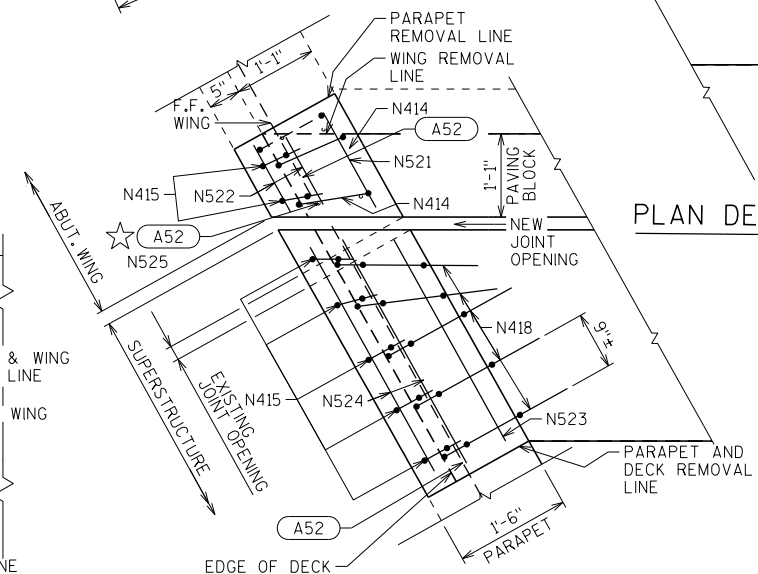
WING CORNER 1 SIMILAR, EXCEPT BAR MARKS START WITH "S"



PLAN DETAIL OF PARAPET REPLACEMENT AREA

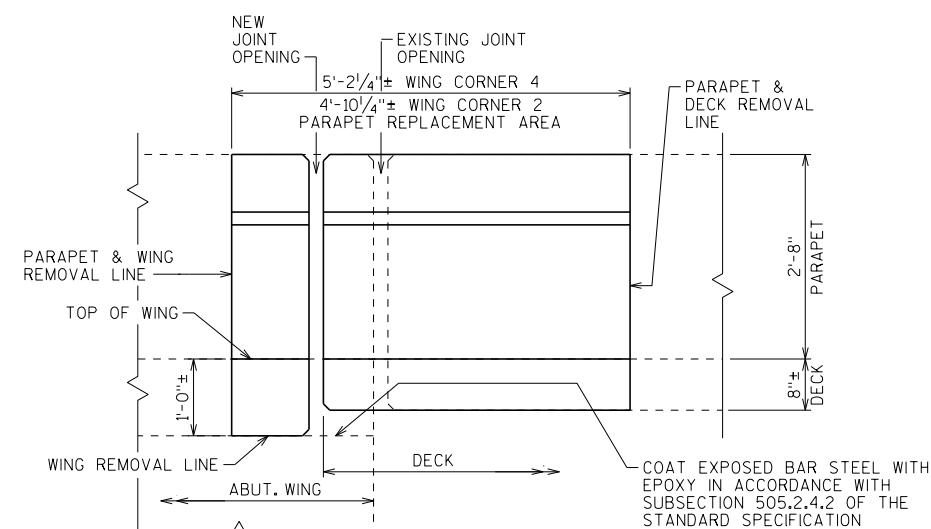
AT WING CORNER 4

WING CORNER 2 SIMILAR, EXCEPT BAR MARKS START WITH "S"



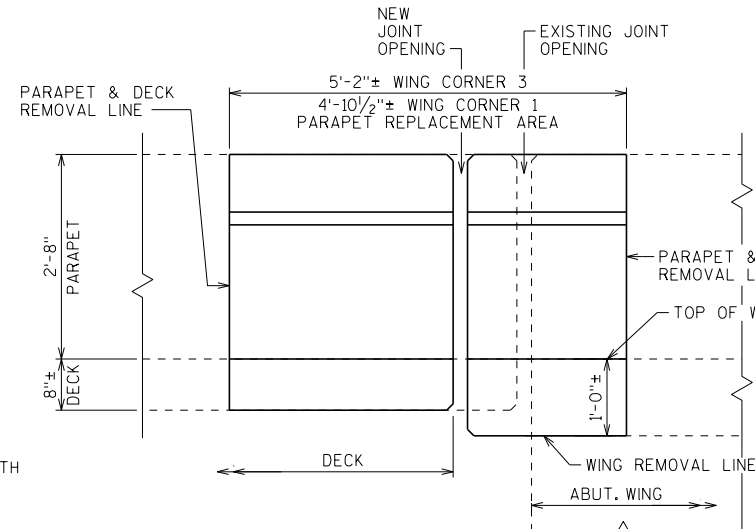
ELEVATION OF NEW WING CORNERS 2 & 4

SHOWING NEW CONCRETE AREAS FOR "JOINT REPAIR"
(LOOKING AT OUTSIDE FACE OF PARAPET)

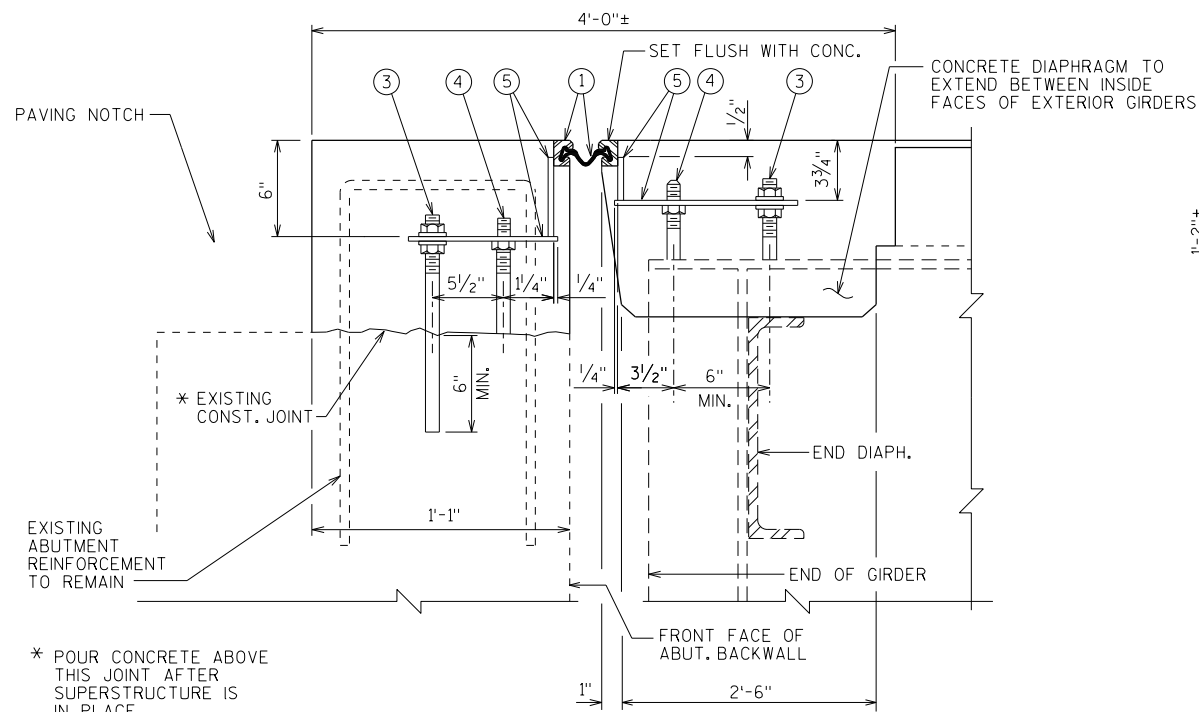


ELEVATION OF NEW WING CORNERS 1 & 3

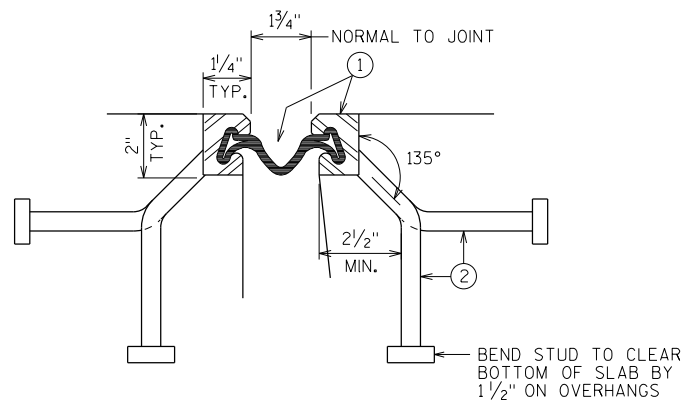
SHOWING NEW CONCRETE AREAS FOR "JOINT REPAIR"
(LOOKING AT OUTSIDE FACE OF PARAPET)



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-205			
DRAWN BY YC		PLANS CK'D. VCP	
JOINT REPAIR		SHEET 3 OF 6	

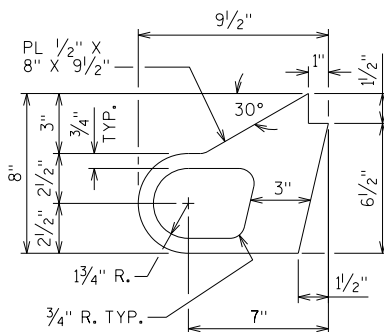


SECTION THRU JOINT AT ABUTMENTS
NORMAL TO ϕ SUBSTRUCTURE

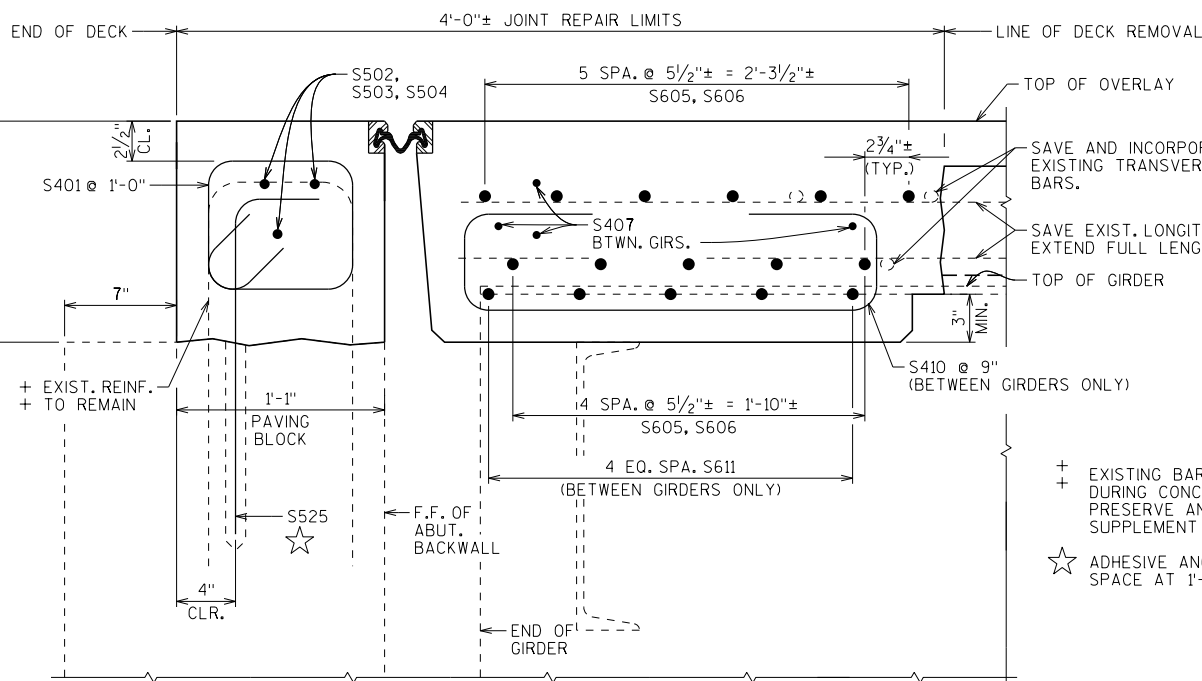


SECTION THRU JOINT

EXTERIOR GIRDER TO EDGE OF DECK AND AT PARAPETS, MEDIANS AND SIDEWALKS



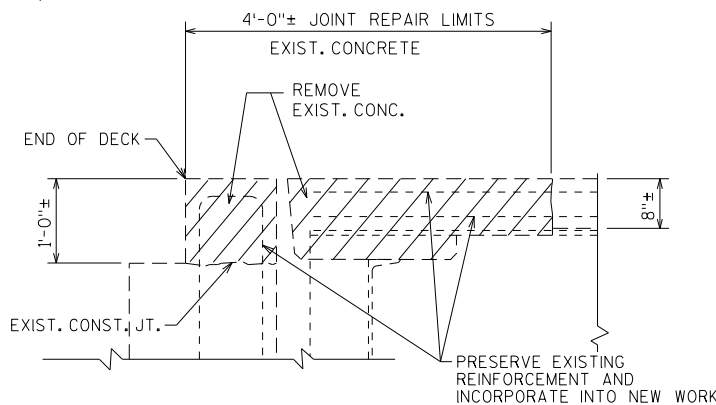
ALTERNATE STRIP SEAL ANCHOR



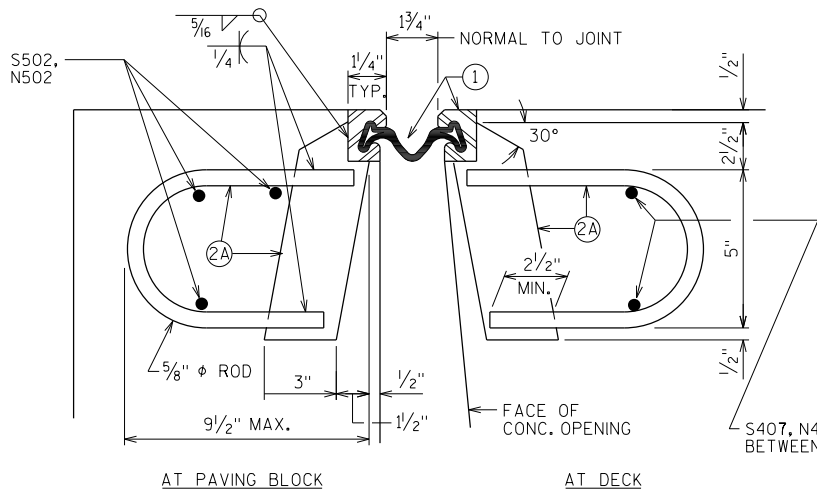
SECTION THRU JOINT AT S. ABUTMENT
NORMAL TO ϕ SUBSTRUCTURE
SHOWING REINFORCEMENT
N. ABUT. SIMILAR, EXCEPT BAR MARKS START WITH "N"

LEGEND

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

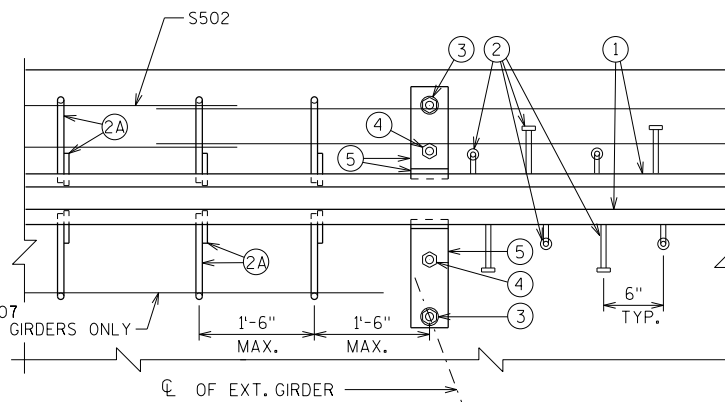


JOINT REPAIR - REMOVAL
SECTION THRU EXISTING EXPANSION JOINT
AT ABUTMENTS
NORMAL TO ϕ SUBSTRUCTURE



SECTION THRU JOINT

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS.



PART PLAN

NOTES

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

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

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

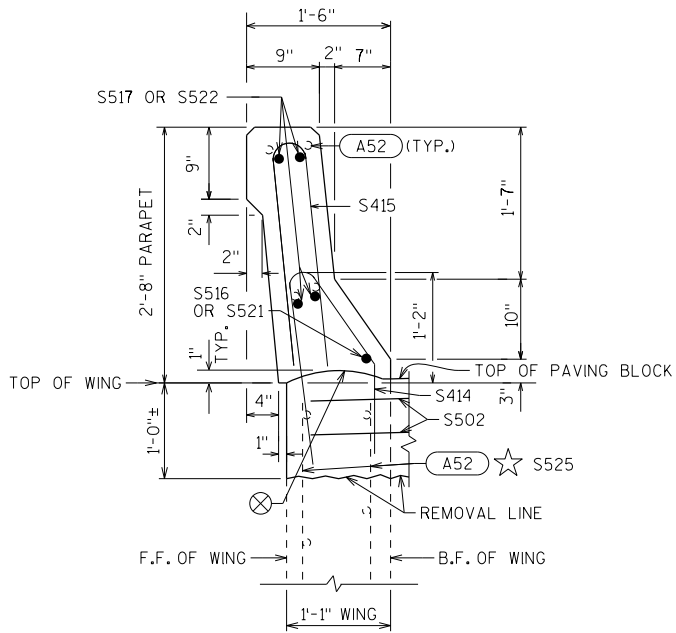
SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

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

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE B-5-205".

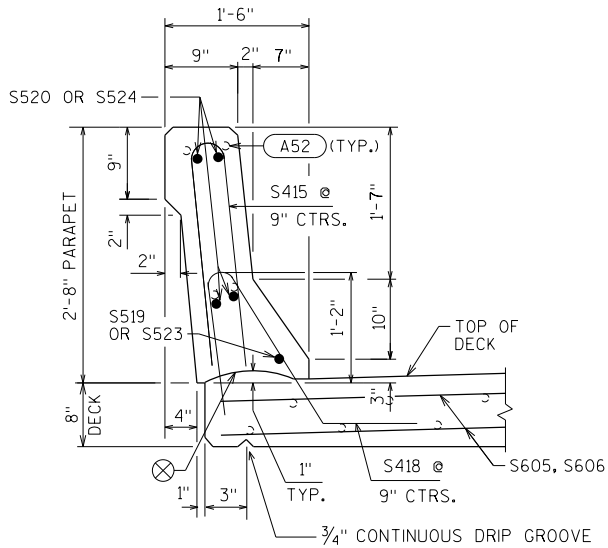
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-205			
EXPANSION DEVICE		DRAWN BY DE	PLANS CK'D. YC
		SHEET 4 OF 6	

\\PCHAPP004\AM\VAUL I.D--TRANS_07\TDCWIS\00214891-A0\STRUCT\CAD\05_B050205\VA EXP\SHEET\05_EJ05IA003.SHT
CHUNYM
2-03-2017, 14:04:26
8
8



NEW SECTION THRU PARAPET ON WING - S. ABUT.

N. ABUT. SIMILAR, EXCEPT BAR MARKS START WITH "N"



NEW SECTION THRU PARAPET ON DECK - S. ABUT.

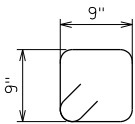
N. ABUT. SIMILAR, EXCEPT BAR MARKS START WITH "N"

⊗ CONST. JOINT - STRIKE OFF AS SHOWN.

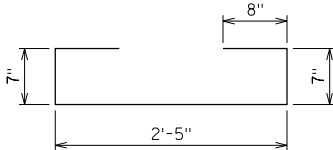
A52 SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.

THE NEW ADDITIONAL HORIZONTAL REINFORCEMENT REQUIRED IN THE PARAPETS SHALL BE TIED TO THE EXISTING HORIZONTAL REINFORCEMENT.

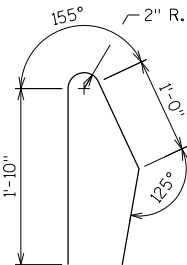
☆ IF EXISTING BARS ARE SEVERELY CORRODED OR DAMAGED DURING CONCRETE REMOVAL, REPLACE WITH BARS S525 ANCHORED WITH ADHESIVE ANCHORS NO. 5 BAR, EMBED BARS 1'-0" MIN. INTO EXISTING CONC. PLACE 4" CL. MIN. OF VERT. CONC. FACE.



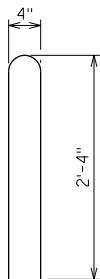
S401, N401



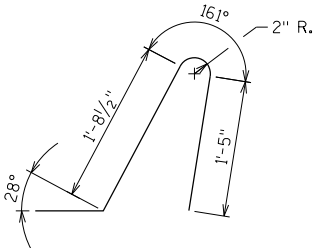
S410, N410



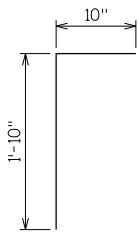
S414, N414



S415, N415



S418, N418



S525, N525

BILL OF BARS

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
BAR DIMENSIONS ARE OUT TO OUT OF BAR.

BAR MARK	COAT	NO. REQ'D		LENGTH	BENT	BAR SERIES	LOCATION
		S. ABUT.	N. ABUT.				
S401	X	46	-	3'-6"	X		PAVING BLOCK - VERT. - STIRRUP - AT STAGE 1 & 2 CONST.
S502	X	12	-	8'-3"			PAVING BLOCK - HORIZ. - AT STAGE 1 & 2 CONST.
S503	X	3	-	8'-8"			PAVING BLOCK - HORIZ. - AT STAGE 1 CONST.
S504	X	3	-	8'-8"			PAVING BLOCK - HORIZ. - AT STAGE 2 CONST.
S605	X	11	-	23'-1"			DECK - HORIZ. - TRANS. - TOP & BOT. - AT STAGE 1 CONST.
S606	X	11	-	23'-1"			DECK - HORIZ. - TRANS. - TOP & BOT. - AT STAGE 2 CONST.
S407	X	12	-	8'-8"			DECK - HORIZ. - TRANS. - BTWN. GIRS. - AT STAGE 1 & 2 CONST.
S408		-	-				(NOT USED)
S409	X	4	-	8'-8"			DECK - HORIZ. - TRANS. - BTWN. G2 & G3 - AT STAGE 2 CONST.
S410	X	44	-	4'-7"	X		DECK/CONC. DIAPH. - VERT. - BTWN. GIRS. - AT STAGE 1 & 2 CONST.
S611	X	15	-	8'-8"			CONC. DIAPH. - BOT. - HORIZ. - TRANS. - BTWN. GIRS. - AT STAGE 1 & 2 CONST.
S612		-	-				(NOT USED)
S613	X	5	-	8'-8"			CONC. DIAPH. - BOT. - HORIZ. - TRANS. - BTWN. G2 & G3 - AT STAGE 2 CONST.
S414	X	4	-	4'-3"	X		WING & PARAPET - VERT. - TRANS. - AT WING CORNERS 1 & 2
S415	X	14	-	4'-10"	X		PARAPET - VERT. - TRANS. - ABOVE DECK AND WINGS - AT WING CORNERS 1 & 2
S516	X	1	-	1'-1"			WING PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 1
S517	X	4	-	1'-4"			WING PARAPET - HORIZ. - LONGIT. - AT WING CORNER 1
S418	X	9	-	4'-3"	X		DECK & PARAPET - VERT. - TRANS. - AT WING CORNERS 1 & 2
S519	X	1	-	3'-2"			DECK PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 1
S520	X	4	-	2'-10"			DECK PARAPET - HORIZ. - LONGIT. - AT WING CORNER 1
S521	X	1	-	1'-4"			WING PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 2
S522	X	4	-	1'-0"			WING PARAPET - HORIZ. - LONGIT. - AT WING CORNER 2
S523	X	1	-	2'-11"			DECK PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 2
S524	X	4	-	3'-2"			DECK PARAPET - HORIZ. - LONGIT. - AT WING CORNER 2
S525	X	54	-	2'-7"	X		PAVING BLOCK & ENDS OF ABUT. BACKWALL - VERT. - DOWEL - AT STAGE 1 & 2 CONST.
- - -			-				

* BAR COUPLERS USED. BAR LENGTH COMPUTED UP TO THE LONGIT. CONST. JOINT AND SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURERS' RECOMMENDATIONS.
** ADHESIVE ANCHORS NO. 5 BAR.

STATE PROJECT NUMBER		
1227-08-73		
	S. ABUT.	N. ABUT.
UNCOATED:	0 LBS	0 LBS
COATED:	1790 LBS	0 LBS

	S. ABUT.	N. ABUT.
UNCOATED:	0 LBS	0 LBS
COATED:	0 LBS	1810 LBS

BAR MARK	COAT	NO. REQ'D		LENGTH	BENT	BAR SERIES	LOCATION
		S. ABUT.	N. ABUT.				
N401	X	-	46	3'-6"	X		PAVING BLOCK - VERT. - STIRRUP - AT STAGE 1 & 2 CONST.
N502	X	-	12	8'-3"			PAVING BLOCK - HORIZ. - AT STAGE 1 & 2 CONST.
N503	X	-	3	9'-3"			PAVING BLOCK - HORIZ. - AT STAGE 1 CONST.
N504	X	-	3	9'-3"			PAVING BLOCK - HORIZ. - AT STAGE 2 CONST.
N605	X	-	11	23'-9"			DECK - HORIZ. - TRANS. - TOP & BOT. - AT STAGE 1 CONST.
N606	X	-	11	23'-9"			DECK - HORIZ. - TRANS. - TOP & BOT. - AT STAGE 2 CONST.
N407	X	-	12	8'-8"			DECK - HORIZ. - TRANS. - BTWN. GIRS. - AT STAGE 1 & 2 CONST.
N408		-	-				(NOT USED)
N409	X	-	4	8'-8"			DECK - HORIZ. - TRANS. - BTWN. G2 & G3 - AT STAGE 2 CONST.
N410	X	-	40	4'-7"	X		DECK/CONC. DIAPH. - VERT. - BTWN. GIRS. - AT STAGE 1 & 2 CONST.
N611	X	-	15	8'-8"			CONC. DIAPH. - BOT. - HORIZ. - TRANS. - BTWN. GIRS. - AT STAGE 1 & 2 CONST.
N612		-	-				(NOT USED)
N613	X	-	5	8'-8"			CONC. DIAPH. - BOT. - HORIZ. - TRANS. - BTWN. G2 & G3 - AT STAGE 2 CONST.
N414	X	-	4	4'-3"	X		WING & PARAPET - VERT. - TRANS. - AT WING CORNERS 3 & 4
N415	X	-	14	4'-10"	X		PARAPET - VERT. - TRANS. - ABOVE DECK AND WINGS - AT WING CORNERS 3 & 4
N516	X	-	1	1'-2"			WING PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 3
N517	X	-	4	1'-5"			WING PARAPET - HORIZ. - LONGIT. - AT WING CORNER 3
N418	X	-	9	4'-3"	X		DECK & PARAPET - VERT. - TRANS. - AT WING CORNERS 3 & 4
N519	X	-	1	3'-4"			DECK PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 3
N520	X	-	4	2'-10"			DECK PARAPET - HORIZ. - LONGIT. - AT WING CORNER 3
N521	X	-	1	1'-5"			WING PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 4
N522	X	-	4	1'-0"			WING PARAPET - HORIZ. - LONGIT. - AT WING CORNER 4
N523	X	-	1	3'-0"			DECK PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 4
N524	X	-	4	3'-4"			DECK PARAPET - HORIZ. - LONGIT. - AT WING CORNER 4
N525	X	-	54	2'-7"	X		PAVING BLOCK & ENDS OF ABUT. BACKWALL - VERT. - DOWEL - AT STAGE 1 & 2 CONST.
- - -			-				

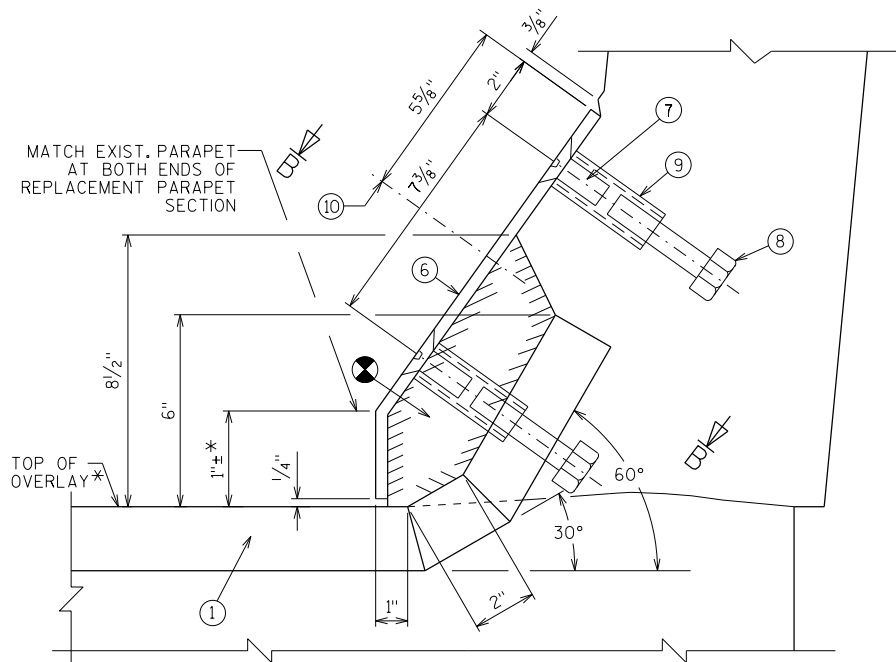
* BAR COUPLERS USED. BAR LENGTH COMPUTED UP TO THE LONGIT. CONST. JOINT AND SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURERS' RECOMMENDATIONS.
** ADHESIVE ANCHORS NO. 5 BAR.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-205			
		DRAWN BY DME	PLANS CK'D. YC
JOINT REPAIR - BILL OF BARS			SHEET 5 OF 6

FILENAME
SCALE

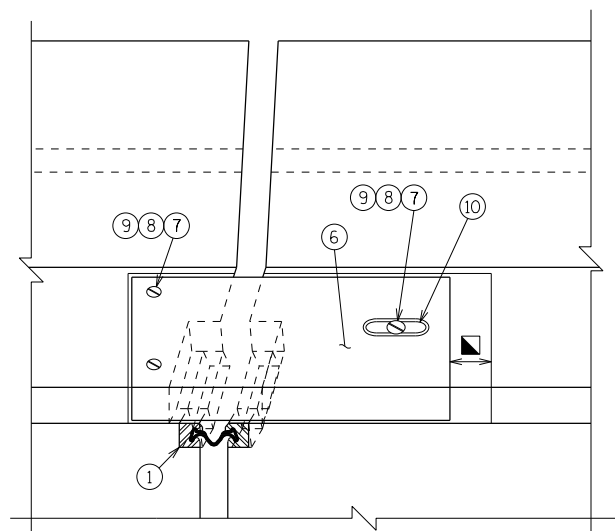
LEGEND

- ① NEOPRENE STRIP SEAL (4 - INCH) AND STEEL EXTRUSIONS.
② STUDS $\frac{5}{8}$ " ϕ X $6\frac{3}{8}$ " LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
⑥ GALVANIZED PLATE $\frac{3}{8}$ " X 1'-2" X 2'-0" LONG WITH HOLES FOR NO. 7. BEND AS SHOWN.
⑦ $\frac{3}{4}$ " ϕ X $1\frac{1}{2}$ " STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS $\frac{1}{16}$ " BELOW PLATE SURFACE.
⑧ $\frac{3}{4}$ " ϕ X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
⑨ $\frac{3}{4}$ " ϕ X $2\frac{1}{4}$ " GALVANIZED THREADED COUPLING.
⑩ 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.

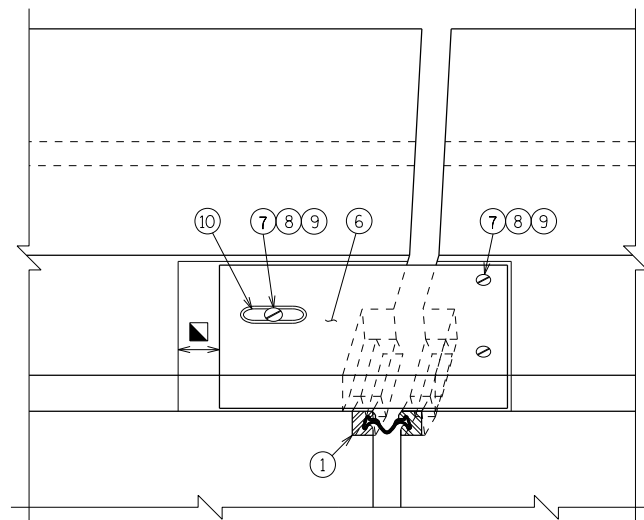


SECTION A-A

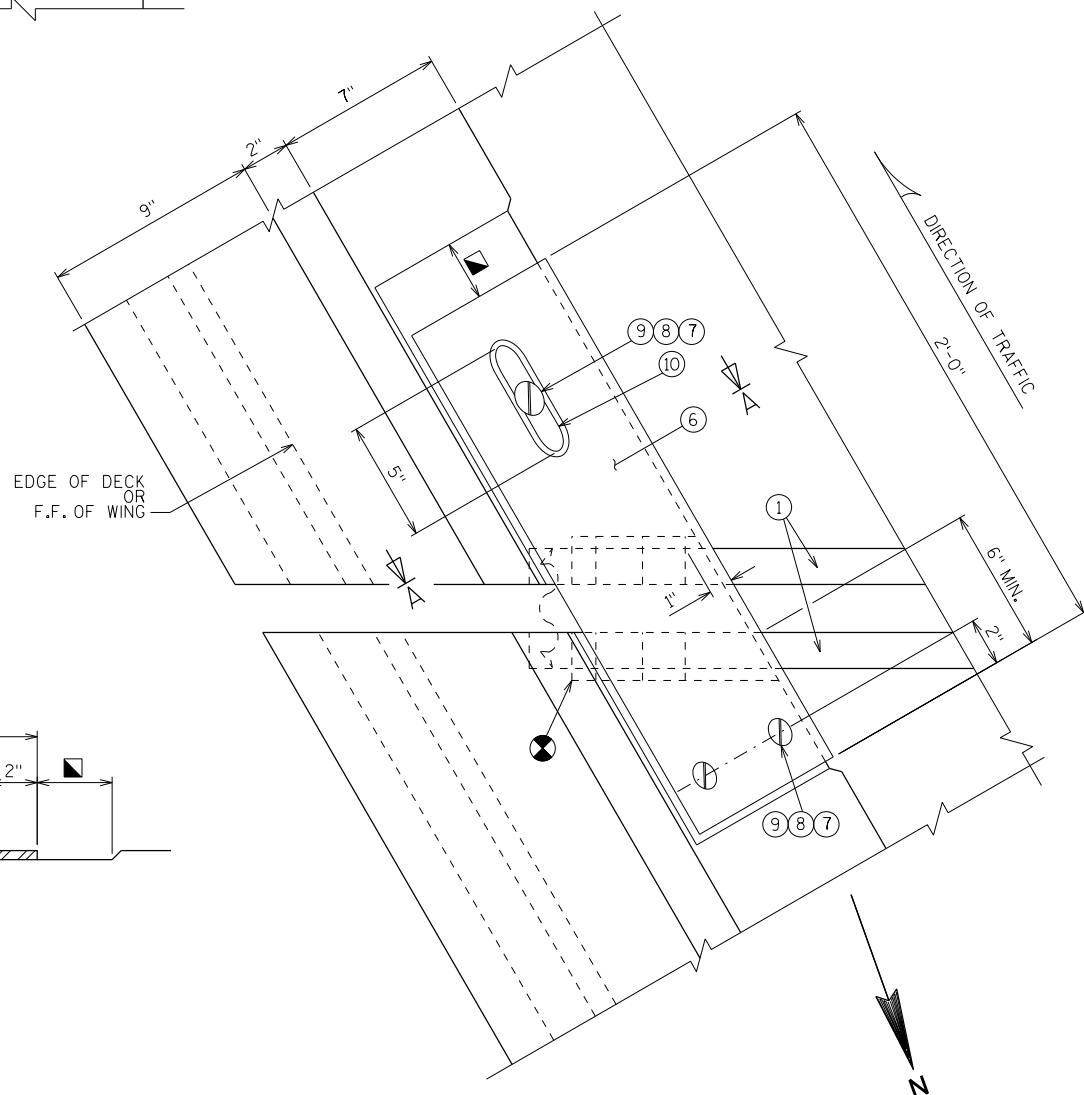
* TOP OF OVERLAY
@ 2" ABOVE TOP
OF ORIGINAL DECK.

VIEW OF PARAPET PLATE
FROM ROADWAY

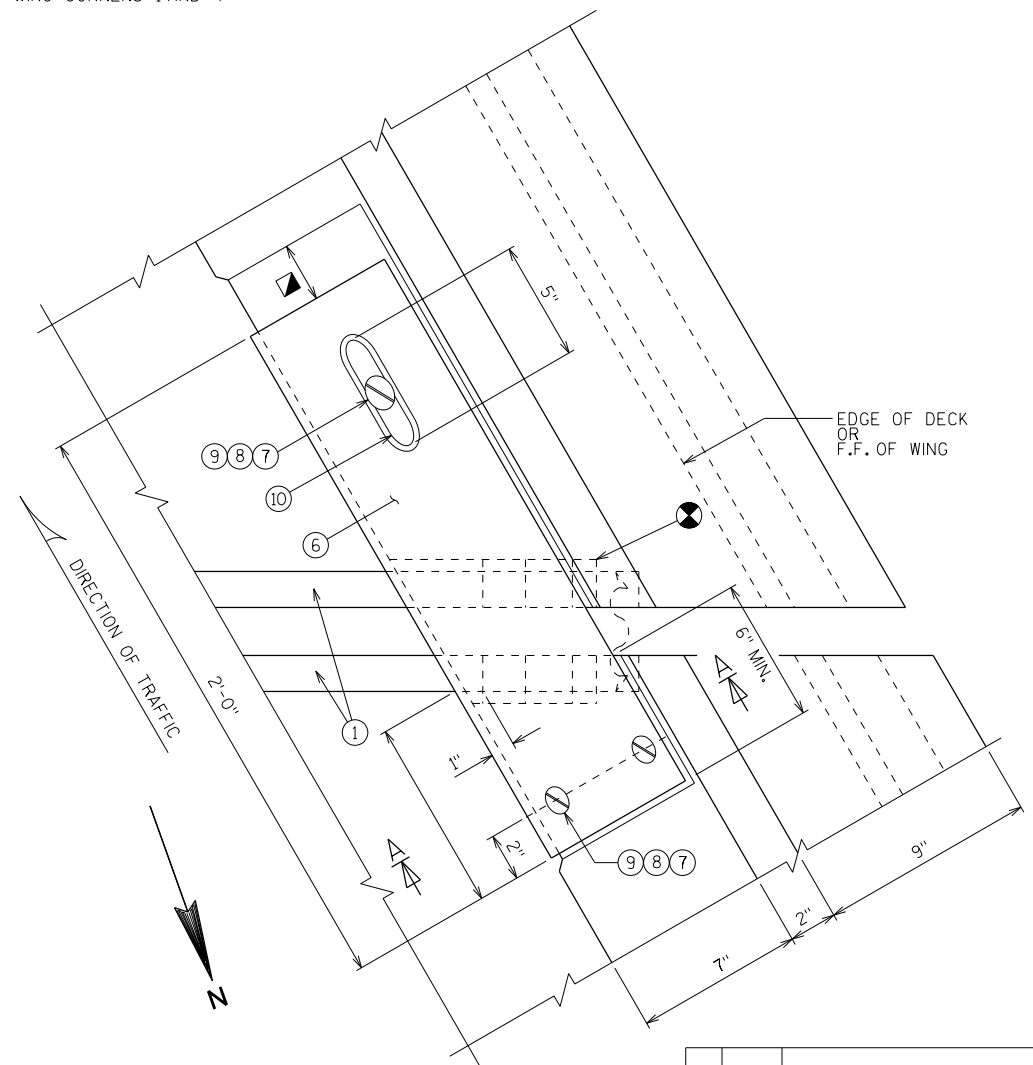
AT WING CORNERS 2 AND 3

VIEW OF PARAPET PLATE
FROM ROADWAY

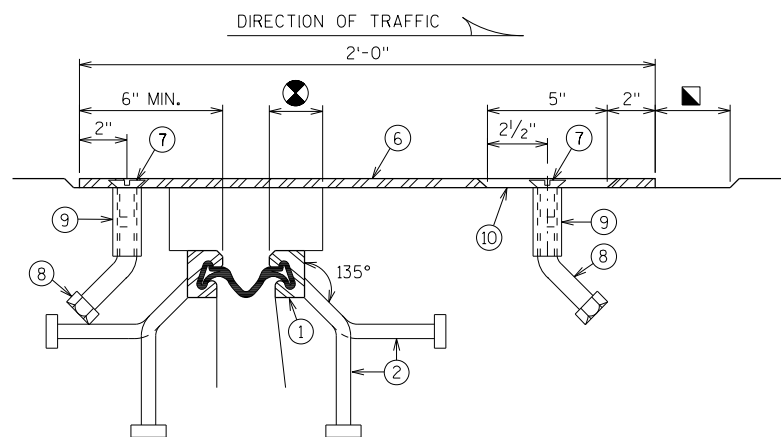
AT WING CORNERS 1 AND 4



PLAN AT WING CORNERS 2 AND 3



PLAN AT WING CORNERS 1 AND 4



SECTION B-B

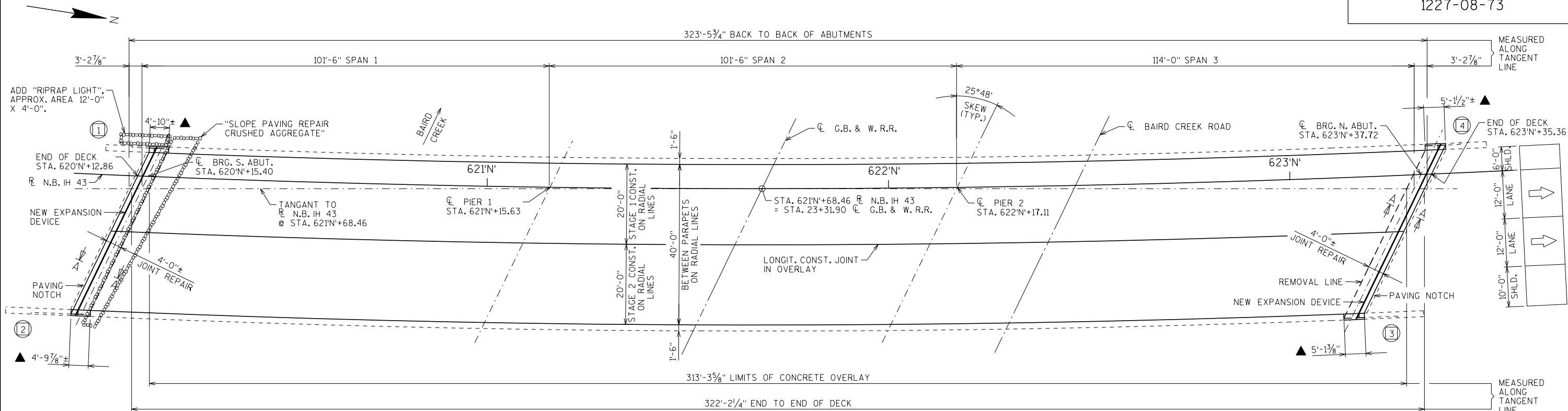
AT WING CORNERS 1 AND 4

OPPOSITE HAND AT WING CORNERS 2 AND 3

BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.

JOINT OPENING DIMENSION ALONG SKEW PLUS $\frac{1}{2}$ ".

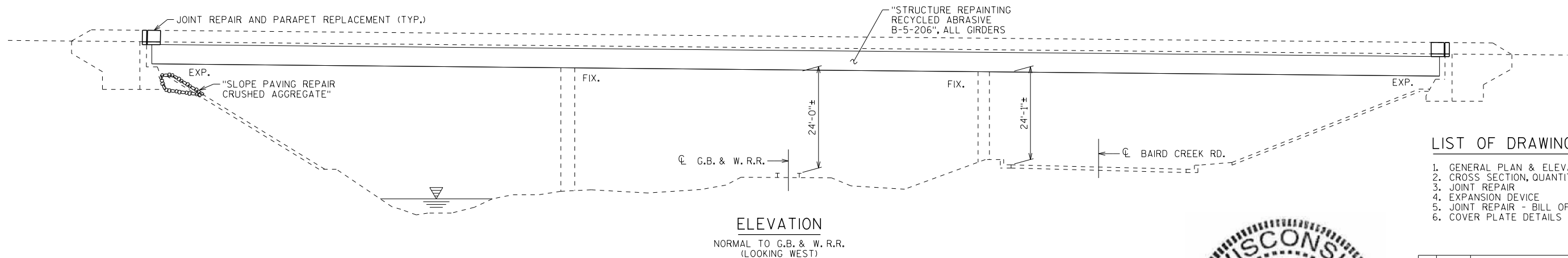
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-205			
DRAWN BY DME		PLANS CK'D. YC	
COVER PLATE DETAILS		SHEET 6 OF 6	



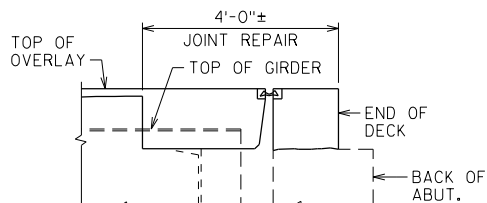
PLAN

(3-SPAN STEEL GIRDER, CONCRETE OVERLAY)

⊖ INDICATES WINGWALL NUMBER

▲ PARAPET REPLACEMENT AREA.
SEE SHEET __ FOR DETAILS.

ELEVATION

NORMAL TO G.B. & W. R.R.
(LOOKING WEST)

SECTION A-A

SEE SHEET __ FOR DETAILS.

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. CROSS SECTION, QUANTITIES & NOTES
3. JOINT REPAIR
4. EXPANSION DEVICE
5. JOINT REPAIR - BILL OF BARS
6. COVER PLATE DETAILS



DATE: 02/03/2017

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE: WILLIAM DREHER, P.E. (608) 266-8489
CONSULTANT: VINOD PATEL, P.E. (312) 616-7395

CURVE DATA

R N.B. IH 43
PI = STA. 636'N'+39.26
Δ = 49°-55'-49.70"
D = 1°-30'-00"
T = 1778.34'
L = 3328.70'
R = 3819.72'
SE = 5.3%
RO = 240'

DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HS20
INVENTORY RATING: HS19
OPERATING RATING: HS33
WISCONSIN STANDARD PERMIT VEHICLE (Wis-SPV): 220 KIPS
MATERIAL PROPERTIES:
CONCRETE MASONRY: OVERLAY DECKS f'c = 4,000 P.S.I.
ALL OTHER f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60: fy = 60,000 P.S.I.

TRAFFIC VOLUME

IH 43
A.D.T. = 50,400 (2036)
R.D.S. = 70 MPH
BAIRD CREEK ROAD
A.D.T. = 500 (2036)
R.D.S. = 35 MPH

NO.	DATE	REVISION	BY
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exp. U.S. Services Inc.
Milwaukee, WI
BUILDINGS • EARTH & ENVIRONMENT • ENERGY
INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED: _____ DATE: _____
CHIEF STRUCTURES DESIGN ENGINEER

STRUCTURE B-5-206

IH 43 NB OVER BAIRD CREEK ROAD

COUNTY BROWN TOWN/CITY/VILLAGE GREEN BAY

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY YC DESIGN CK'D. VCP DRAWN BY JJG PLANS CK'D. VCP

GENERAL PLAN &
ELEVATION

SHEET 1 OF 6

\\PCHAPP004\AM\VAUL\I.D-TRANS_07\TDCWIS\00214891-A0\STRUCT\CAD\06_B050206 VIA EXP\SHEET\01\GP06\IA001.SHT

\\S\U06\IA001.DGN, ..\STAMP\SIGN.DGN, ..\S\U06\IA001.DGN, ..\BDF2\IA001.SHT, ..\BDF2\IA001.DGN, ..\BDF2\IA001.DGN

8

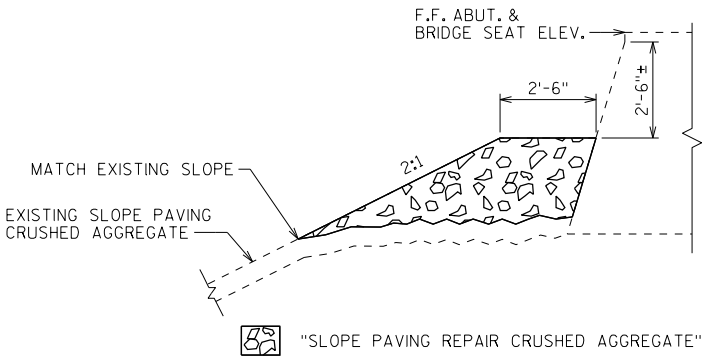
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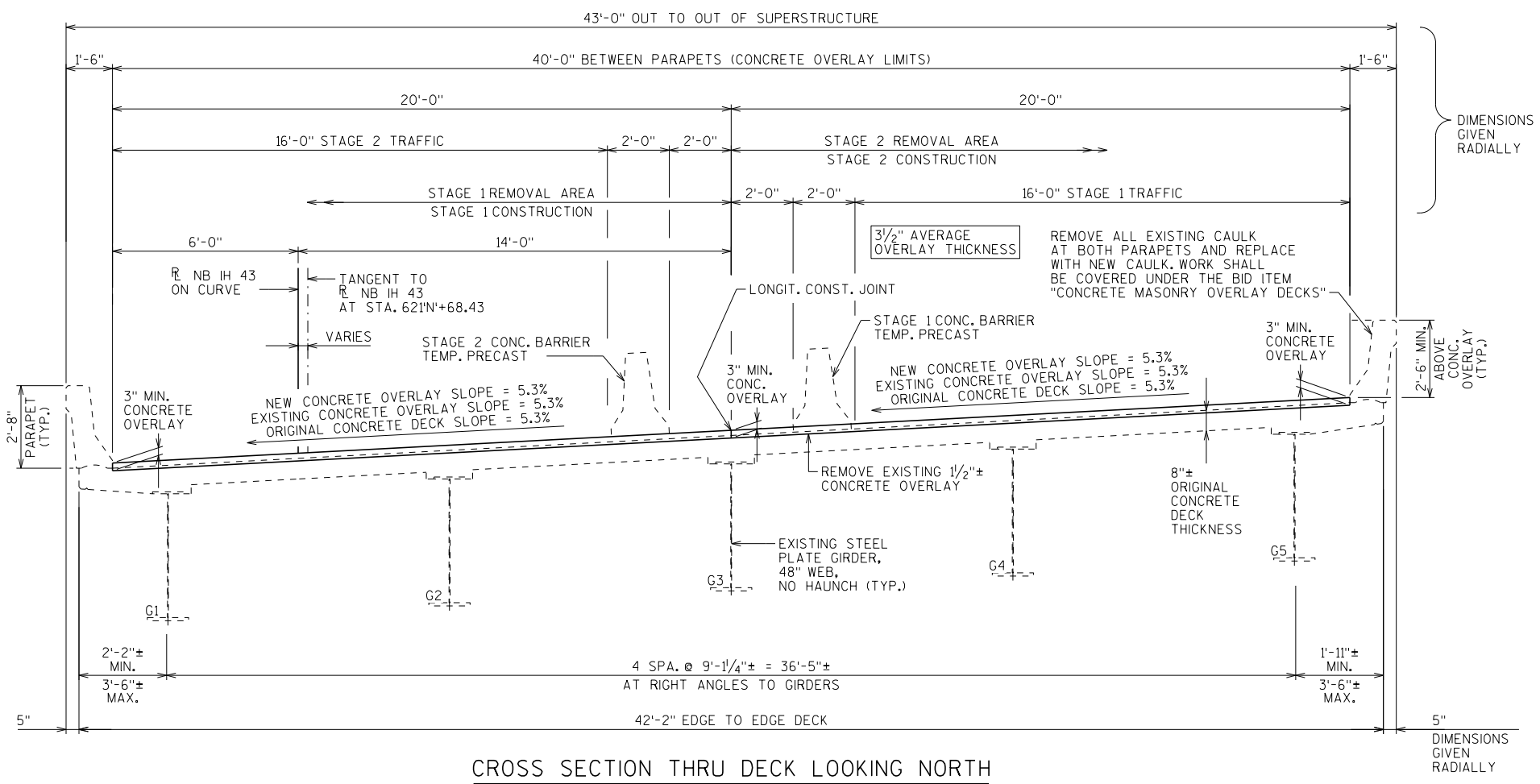
TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	S. ABUT.	N. ABUT.	SUPER.	TOTAL
502.3100.03	EXPANSION DEVICE B-5-206	LS	-	-	-	1
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	1,440	1,440
502.3210	PIGMENTED SURFACE SEALER	SY	10	10	244	264
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	54	54	-	108
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,790	1,810	-	3,600
505.0905	BAR COUPLERS NO. 5	EACH	3	3	-	6
505.0906	BAR COUPLERS NO. 6	EACH	11	11	-	22
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	290	290
509.0302	PREPARATION DECKS TYPE 2	SY	-	-	115	115
509.1000	JOINT REPAIR	SY	-	-	46	46
509.1500	CONCRETE SURFACE REPAIR	SF	-	-	134	134
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	1	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	-	-	177	177
509.9005.S.03	REMOVING CONCRETE MASONRY DECK OVERLAY B-5-206	SY	-	-	1,400	1,400
509.9050.S	CLEANING PARAPETS	LF	30	28	626	684
517.1800.S.02	STRUCTURE REPAINTING RECYCLED ABRASIVE B-5-206	LS	-	-	-	1
517.4500.S.02	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-5-206	LS	-	-	-	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	-	-	-	1
604.9010.S	SLOPE PAVING REPAIR CRUSHED AGGREGATE	CY	-	-	38	38
606.0100	RIPRAP LIGHT	CY	-	-	-	0
	NON-BID ITEMS					
	BRIDGE SEAT PROTECTION					

BID ITEM "CONCRETE MASONRY OVERLAY DECKS" ALSO INCLUDES CONCRETE FOR:
"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", "FULL-DEPTH DECK REPAIR", AND "JOINT REPAIR".
THE QUANTITIES OF "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" ARE
BASED ON AN INFRARED THERMOGRAPHIC DECK SURVEY REPORT.



SECTION AT SOUTH ABUTMENT
SLOPE PAVING REPAIR DETAIL



CROSS SECTION THRU DECK LOOKING NORTH

STATE PROJECT NUMBER

1227-08-73

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS OF EXISTING STRUCTURE MEMBERS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THE EXISTING CONCRETE OVERLAY SHALL BE REMOVED FROM THE BRIDGE DECK UNDER BID ITEM "REMOVING CONCRETE MASONRY DECK OVERLAY B-5-206".

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", "CONCRETE SURFACE REPAIR", AND "FULL-DEPTH DECK REPAIR" AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.

ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1 INCH DEEP SAW CUT.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 3" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS AS GIVEN ON THE PLANS. IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY OR JOINT REPAIRS AT ABUTMENTS IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

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

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

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

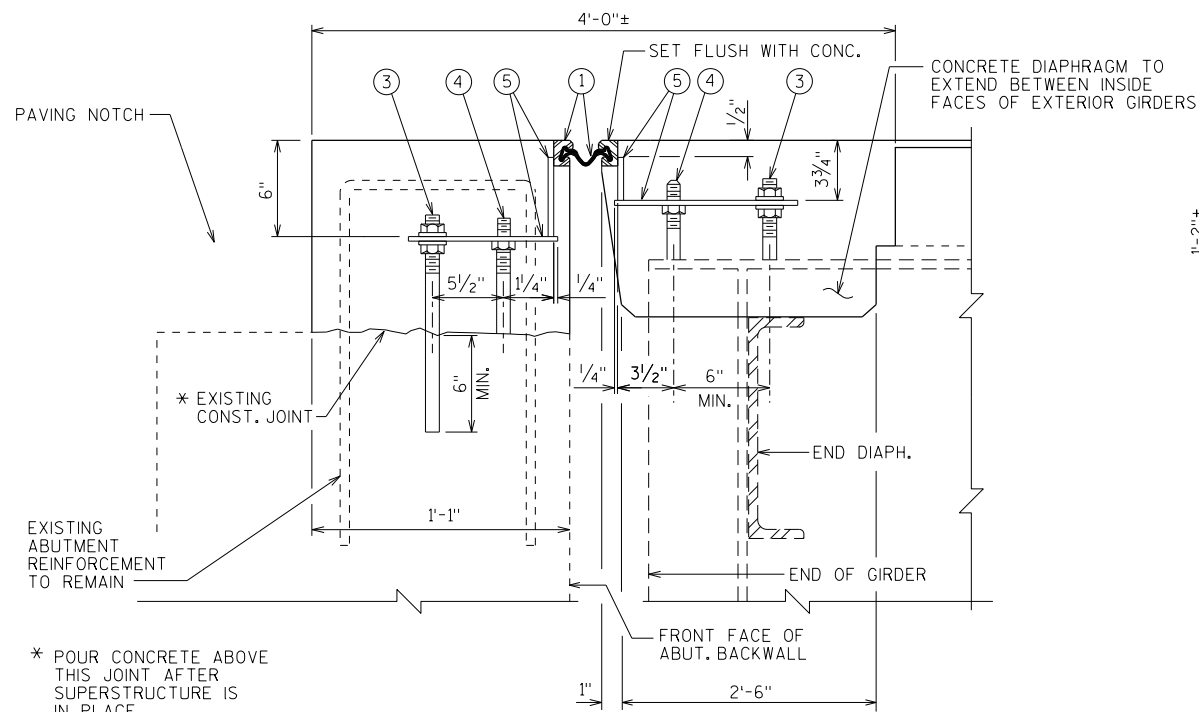
APPLY BRIDGE SEAT PROTECTION, AS PER SECTION 502.3.12 OF THE STANDARD SPECIFICATIONS, TO THE TOP SURFACES OF BOTH ABUTMENTS BELOW EXPANSION DEVICES. POWER WASH AND ADEQUATELY DRY SURFACES BEFORE APPLICATION. WORK TO BE INCIDENTAL TO "JOINT REPAIR".

CLEAN THE INSIDE FACES AND TOP SURFACE OF THE EXISTING CONCRETE PARAPETS. PARAPET JOINTS SHALL BE CLEANED AND RE-SEALED WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. INCLUDE IN BID ITEM "CLEANING PARAPETS".

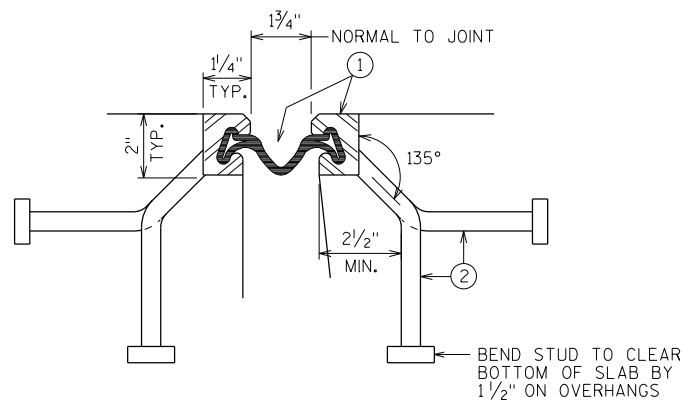
APPLY "PROTECTIVE SURFACE TREATMENT" TO THE EXPOSED DECK SURFACE OF THE NEW CONCRETE OVERLAY BETWEEN PARAPETS AND EXPOSED TOP SURFACE OF JOINT REPAIR.

APPLY "PIGMENTED SURFACE SEALER" ON THE INSIDE AND TOP FACES OF PARAPETS, INCLUDING PARAPETS ON ABUTMENT WINGS.

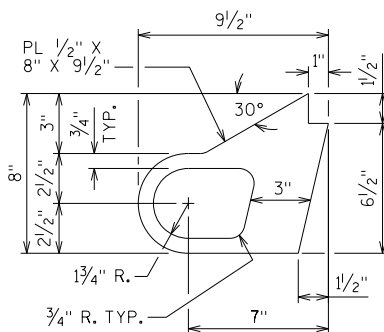
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-206			
		DRAWN BY YC	PLANS CK'D. VCP
CROSS SECTION, QUANTITIES & NOTES			SHEET 2 OF 6



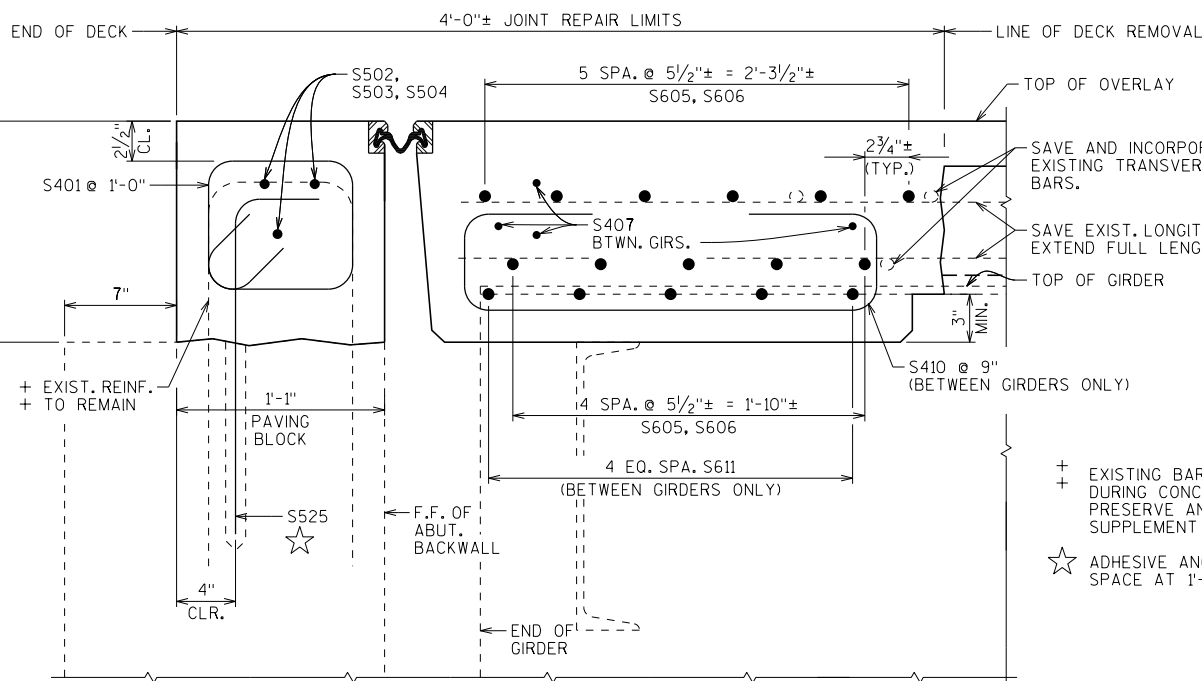
SECTION THRU JOINT AT ABUTMENTS
NORMAL TO ϕ SUBSTRUCTURE



SECTION THRU JOINT
EXTERIOR GIRDER TO EDGE OF DECK AND AT PARAPETS, MEDIANS AND SIDEWALKS



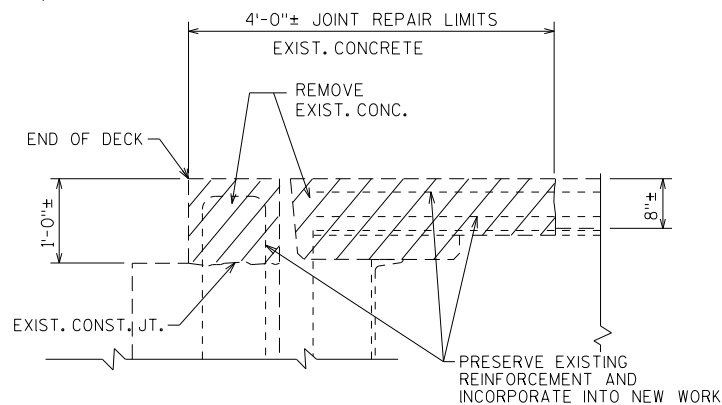
ALTERNATE STRIP SEAL ANCHOR



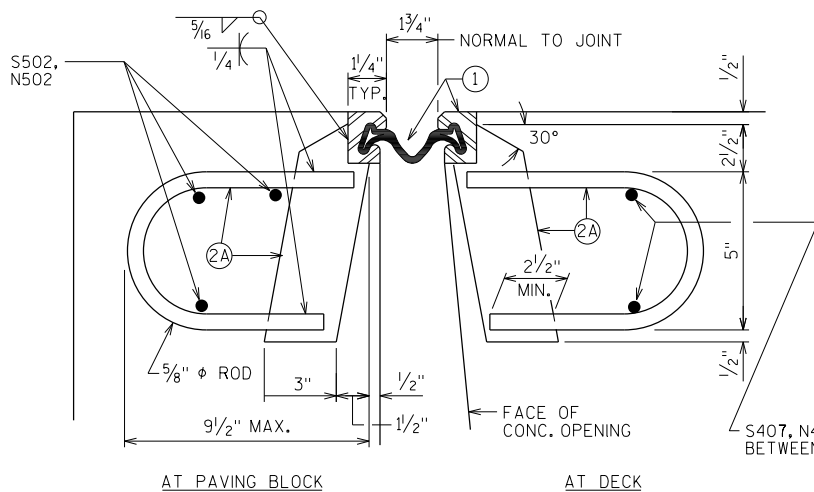
SECTION THRU JOINT AT S. ABUTMENT
NORMAL TO ϕ SUBSTRUCTURE
SHOWING REINFORCEMENT
N. ABUT. SIMILAR, EXCEPT BAR MARKS START WITH "N"

LEGEND

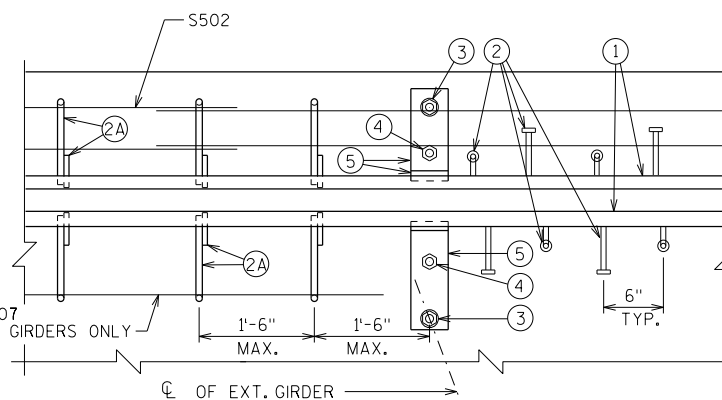
- NEOPRENE STRIP SEAL (4 - INCH) AND STEEL EXTRUSIONS.
- STUDS $\frac{5}{8}$ " ϕ X $6\frac{3}{8}$ " LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
- $\frac{1}{2}$ " THICK ANCHOR PLATE WITH $\frac{5}{8}$ " ϕ ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE,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



JOINT REPAIR - REMOVAL
SECTION THRU EXISTING EXPANSION JOINT
AT ABUTMENTS
NORMAL TO ϕ SUBSTRUCTURE



SECTION THRU JOINT
ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS.



PART PLAN

NOTES

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

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

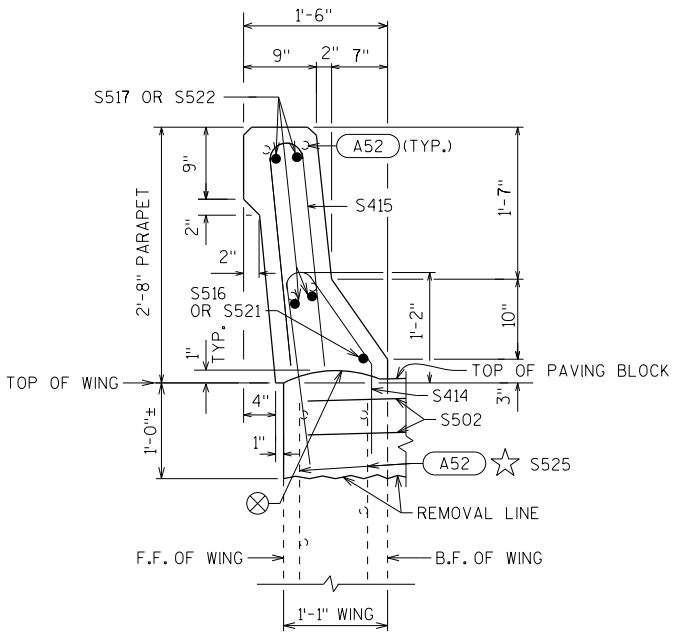
FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

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

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

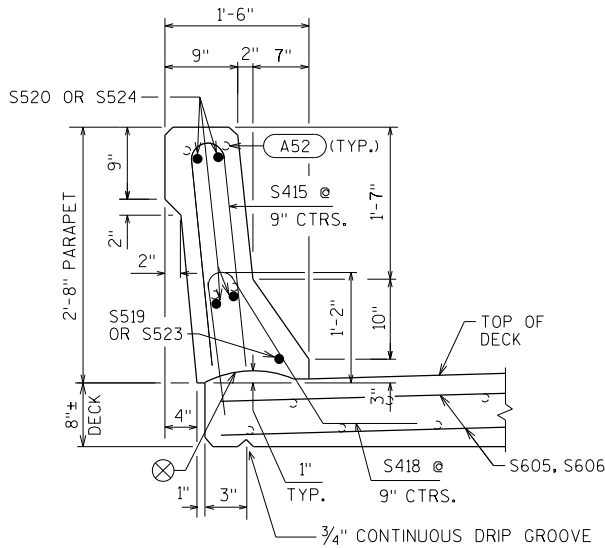
STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE B-5-206".

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-206			
EXPANSION DEVICE		DRAWN BY DE	PLANS CK'D. YC
		SHEET 4 OF 6	



NEW SECTION THRU PARAPET ON WING - S. ABUT.

N. ABUT. SIMILAR, EXCEPT BAR MARKS START WITH "N"



NEW SECTION THRU PARAPET ON DECK - S. ABUT.

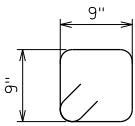
N. ABUT. SIMILAR, EXCEPT BAR MARKS START WITH "N"

⊗ CONST. JOINT - STRIKE OFF AS SHOWN.

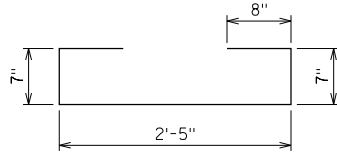
A52 SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.

THE NEW ADDITIONAL HORIZONTAL REINFORCEMENT REQUIRED IN THE PARAPETS SHALL BE TIED TO THE EXISTING HORIZONTAL REINFORCEMENT.

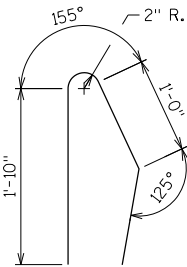
☆ IF EXISTING BARS ARE SEVERELY CORRODED OR DAMAGED DURING CONCRETE REMOVAL, REPLACE WITH BARS S525 ANCHORED WITH ADHESIVE ANCHORS NO. 5 BAR, EMBED BARS 1'-0" MIN. INTO EXISTING CONC. PLACE 4" CL. MIN. OF VERT. CONC. FACE.



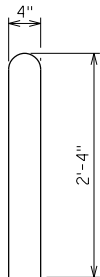
S401, N401



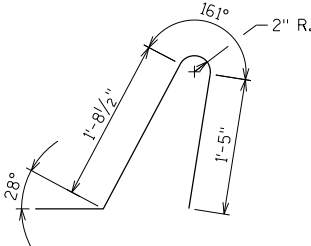
S410, N410



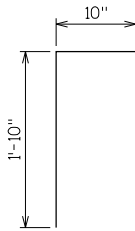
S414, N414



S415, N415



S418, N418



S525, N525

STATE PROJECT NUMBER

1227-08-73

UNCOATED: 0 LBS
COATED: 1790 LBS

S. ABUT. 0 LBS
N. ABUT. 0 LBS

BILL OF BARS

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
BAR DIMENSIONS ARE OUT TO OUT OF BAR.

BAR MARK	COAT	NO. REQ'D		LENGTH	BENT	BAR SERIES	LOCATION
		S. ABUT.	N. ABUT.				
S401	X	46	-	3'-6"	X		PAVING BLOCK - VERT. - STIRRUP - AT STAGE 1 & 2 CONST.
S502	X	12	-	8'-3"			PAVING BLOCK - HORIZ. - AT STAGE 1 & 2 CONST.
S503	X	3	-	8'-7"			PAVING BLOCK - HORIZ. - AT STAGE 1 CONST.
S504	X	3	-	8'-7"			PAVING BLOCK - HORIZ. - AT STAGE 2 CONST.
S605	X	11	-	23'-0"			DECK - HORIZ. - TRANS. - TOP & BOT. - AT STAGE 1 CONST.
S606	X	11	-	23'-0"			DECK - HORIZ. - TRANS. - TOP & BOT. - AT STAGE 2 CONST.
S407	X	12	-	8'-8"			DECK - HORIZ. - TRANS. - BTWN. GIRS. - AT STAGE 1 & 2 CONST.
S408	X	4	-	8'-8"			DECK - HORIZ. - TRANS. - BTWN. G2 & G3 - AT STAGE 1 CONST.
S409	-	-	-	-	-	-	(NOT USED)
S410	X	44	-	4'-7"	X		DECK/CONC. DIAPH. - VERT. - BTWN. GIRS. - AT STAGE 1 & 2 CONST.
S611	X	15	-	8'-8"			CONC. DIAPH. - BOT. - HORIZ. - TRANS. - BTWN. GIRS. - AT STAGE 1 & 2 CONST.
S612	X	5	-	8'-8"			CONC. DIAPH. - BOT. - HORIZ. - TRANS. - BTWN. G2 & G3 - AT STAGE 1 CONST.
S613	-	-	-	-	-	-	(NOT USED)
S414	X	4	-	4'-3"	X		WING & PARAPET - VERT. - TRANS. - AT WING CORNERS 1 & 2
S415	X	14	-	4'-10"	X		PARAPET - VERT. - TRANS. - ABOVE DECK AND WINGS - AT WING CORNERS 1 & 2
S516	X	1	-	1'-1"			WING PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 1
S517	X	4	-	1'-4"			WING PARAPET - HORIZ. - LONGIT. - AT WING CORNER 1
S418	X	9	-	4'-3"	X		DECK & PARAPET - VERT. - TRANS. - AT WING CORNERS 1 & 2
S519	X	1	-	3'-2"			DECK PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 1
S520	X	4	-	2'-10"			DECK PARAPET - HORIZ. - LONGIT. - AT WING CORNER 1
S521	X	1	-	1'-4"			WING PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 2
S522	X	4	-	1'-0"			WING PARAPET - HORIZ. - LONGIT. - AT WING CORNER 2
S523	X	1	-	2'-11"			DECK PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 2
S524	X	4	-	3'-2"			DECK PARAPET - HORIZ. - LONGIT. - AT WING CORNER 2
S525	X	54	-	2'-7"	X		PAVING BLOCK & ENDS OF ABUT. BACKWALL - VERT. - DOWEL - AT STAGE 1 & 2 CONST.
- - -	-	-	-	-	-	-	

* BAR COUPLERS USED. BAR LENGTH COMPUTED UP TO THE LONGIT. CONST. JOINT AND SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURERS' RECOMMENDATIONS.
** ADHESIVE ANCHORS NO. 5 BAR.

UNCOATED: 0 LBS
COATED: 0 LBS

S. ABUT. 0 LBS
N. ABUT. 1810 LBS

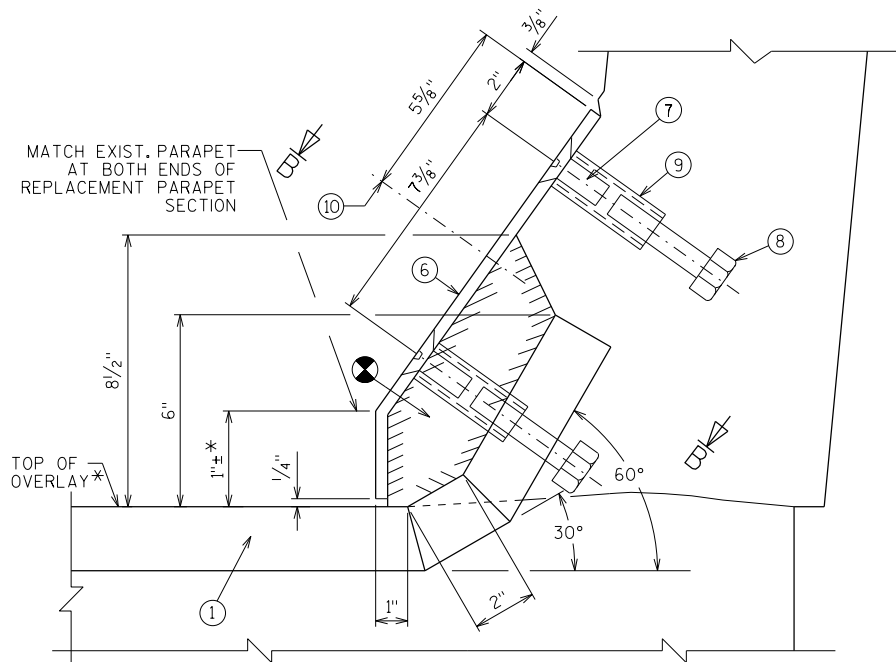
BAR MARK	COAT	NO. REQ'D		LENGTH	BENT	BAR SERIES	LOCATION
		S. ABUT.	N. ABUT.				
N401	X	-	46	3'-6"	X		PAVING BLOCK - VERT. - STIRRUP - AT STAGE 1 & 2 CONST.
N502	X	-	12	8'-3"			PAVING BLOCK - HORIZ. - AT STAGE 1 & 2 CONST.
N503	X	-	3	9'-0"			PAVING BLOCK - HORIZ. - AT STAGE 1 CONST.
N504	X	-	3	9'-0"			PAVING BLOCK - HORIZ. - AT STAGE 2 CONST.
N605	X	-	11	23'-6"			DECK - HORIZ. - TRANS. - TOP & BOT. - AT STAGE 1 CONST.
N606	X	-	11	23'-6"			DECK - HORIZ. - TRANS. - TOP & BOT. - AT STAGE 2 CONST.
N407	X	-	12	8'-8"			DECK - HORIZ. - TRANS. - BTWN. GIRS. - AT STAGE 1 & 2 CONST.
N408	X	-	4	8'-8"			DECK - HORIZ. - TRANS. - BTWN. G2 & G3 - AT STAGE 1 CONST.
N409	-	-	-	-	-	-	(NOT USED)
N410	X	-	44	4'-7"	X		DECK/CONC. DIAPH. - VERT. - BTWN. GIRS. - AT STAGE 1 & 2 CONST.
N611	X	-	15	8'-8"			CONC. DIAPH. - BOT. - HORIZ. - TRANS. - BTWN. GIRS. - AT STAGE 1 & 2 CONST.
N612	X	-	5	8'-8"			CONC. DIAPH. - BOT. - HORIZ. - TRANS. - BTWN. G2 & G3 - AT STAGE 1 CONST.
N613	-	-	-	-	-	-	(NOT USED)
N414	X	-	4	4'-3"	X		WING & PARAPET - VERT. - TRANS. - AT WING CORNERS 3 & 4
N415	X	-	14	4'-10"	X		PARAPET - VERT. - TRANS. - ABOVE DECK AND WINGS - AT WING CORNERS 3 & 4
N516	X	-	1	1'-2"			WING PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 3
N517	X	-	4	1'-5"			WING PARAPET - HORIZ. - LONGIT. - AT WING CORNER 3
N418	X	-	9	4'-3"	X		DECK & PARAPET - VERT. - TRANS. - AT WING CORNERS 3 & 4
N519	X	-	1	3'-3"			DECK PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 3
N520	X	-	4	2'-10"			DECK PARAPET - HORIZ. - LONGIT. - AT WING CORNER 3
N521	X	-	1	1'-5"			WING PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 4
N522	X	-	4	1'-0"			WING PARAPET - HORIZ. - LONGIT. - AT WING CORNER 4
N523	X	-	1	3'-0"			DECK PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 4
N524	X	-	4	3'-3"			DECK PARAPET - HORIZ. - LONGIT. - AT WING CORNER 4
N525	X	-	54	2'-7"	X		PAVING BLOCK & ENDS OF ABUT. BACKWALL - VERT. - DOWEL - AT STAGE 1 & 2 CONST.
- - -	-	-	-	-	-	-	

* BAR COUPLERS USED. BAR LENGTH COMPUTED UP TO THE LONGIT. CONST. JOINT AND SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURERS' RECOMMENDATIONS.
** ADHESIVE ANCHORS NO. 5 BAR.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-206			
DRAWN BY DME		PLANS CK'D. YC	
JOINT REPAIR - BILL OF BARS		SHEET 5 OF 6	

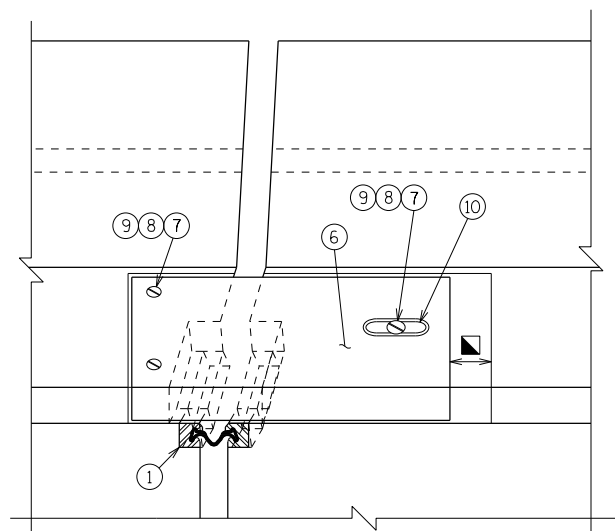
LEGEND

- ① NEOPRENE STRIP SEAL (4 - INCH) AND STEEL EXTRUSIONS.
② STUDS $\frac{5}{8}$ " ϕ X $6\frac{3}{8}$ " LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
⑥ GALVANIZED PLATE $\frac{3}{8}$ " X 1'-2" X 2'-0" LONG WITH HOLES FOR NO. 7. BEND AS SHOWN.
⑦ $\frac{3}{4}$ " ϕ X $1\frac{1}{2}$ " STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS $\frac{1}{16}$ " BELOW PLATE SURFACE.
⑧ $\frac{3}{4}$ " ϕ X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
⑨ $\frac{3}{4}$ " ϕ X $2\frac{1}{4}$ " GALVANIZED THREADED COUPLING.
⑩ 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.

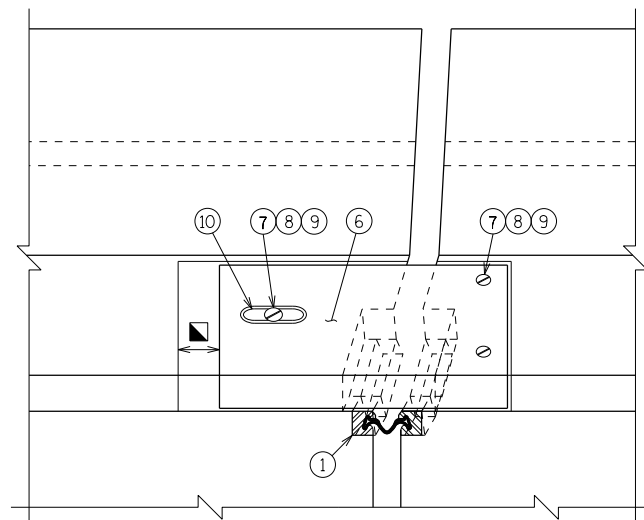


SECTION A-A

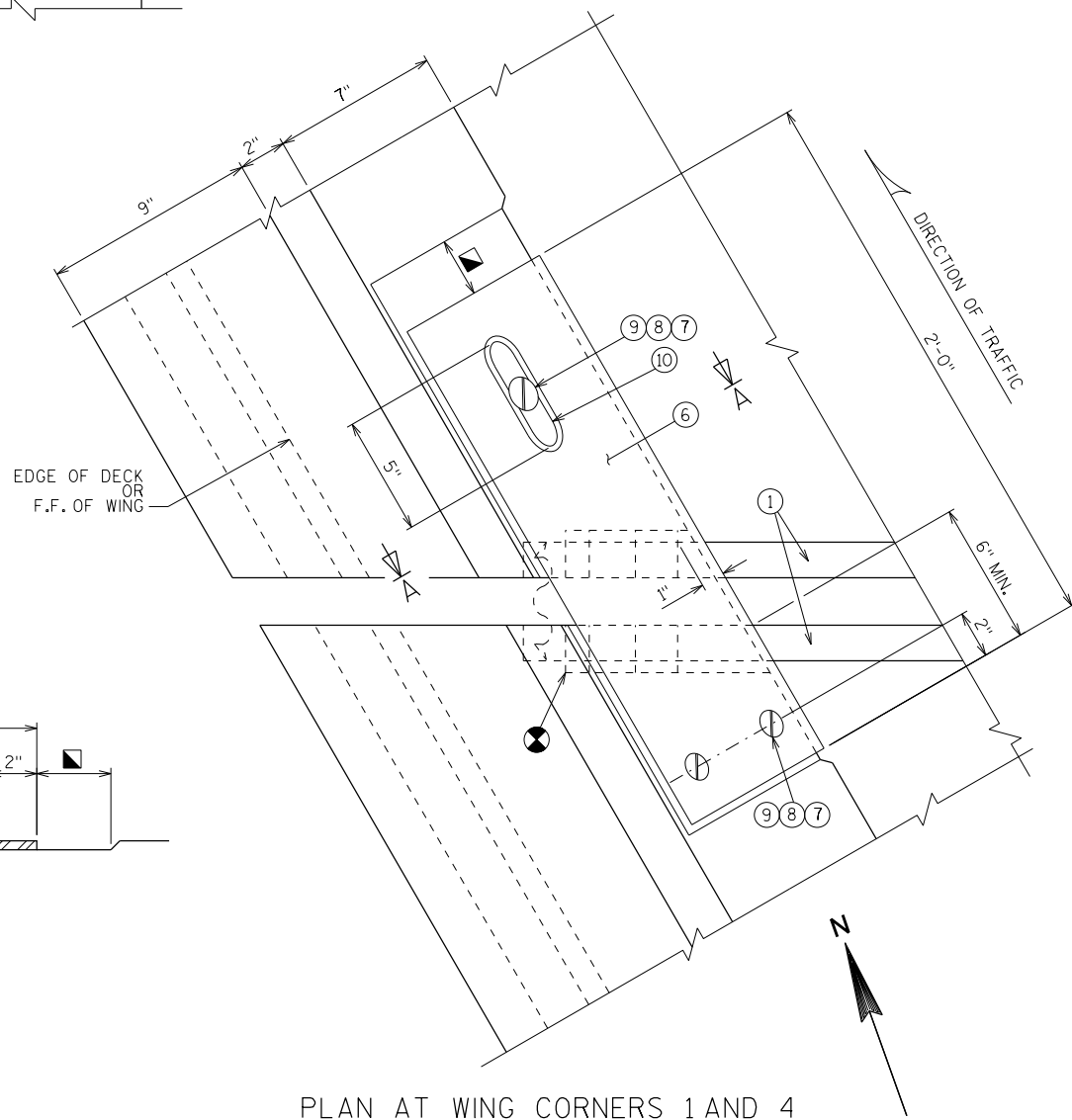
* TOP OF OVERLAY
@ 2" ABOVE TOP
OF ORIGINAL DECK.

VIEW OF PARAPET PLATE
FROM ROADWAY

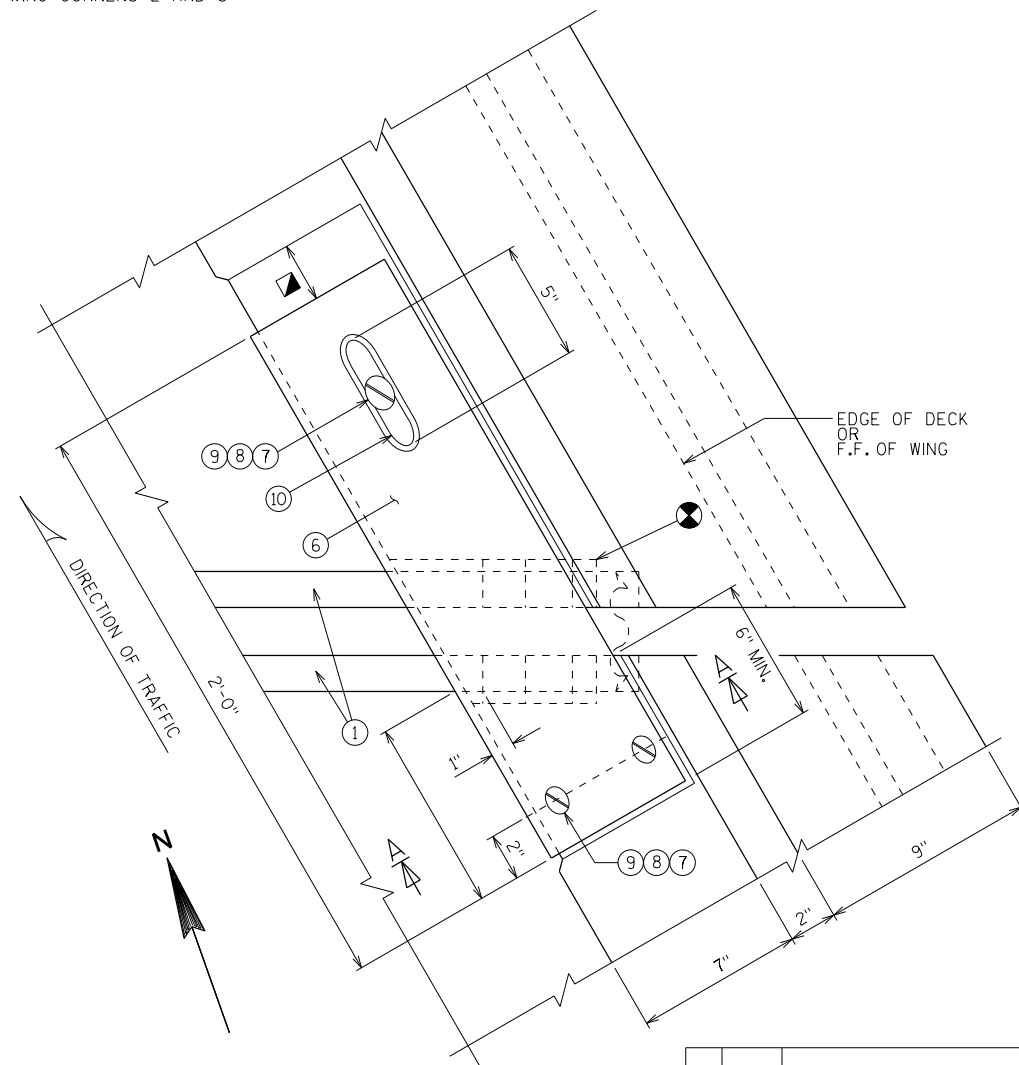
AT WING CORNERS 1 AND 4

VIEW OF PARAPET PLATE
FROM ROADWAY

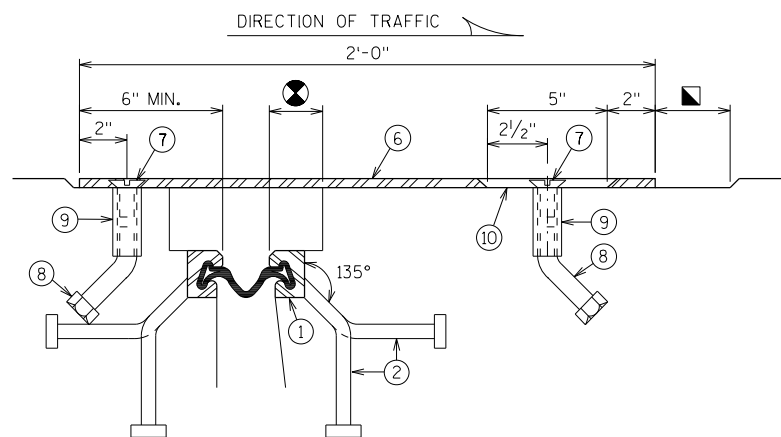
AT WING CORNERS 2 AND 3



PLAN AT WING CORNERS 1 AND 4



PLAN AT WING CORNERS 2 AND 3



SECTION B-B

AT WING CORNERS 2 AND 3
OPPOSITE HAND AT WING CORNERS 1 AND 4

⊗ BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.

▣ JOINT OPENING DIMENSION ALONG SKEW PLUS $\frac{1}{2}$ ".

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-206			
DRAWN BY DME		PLANS CK'D. YC	
COVER PLATE DETAILS		SHEET 6 OF 6	



DATE: 02/03/2017

LIST OF DRAWINGS

1. GENERAL PLAN & CROSS SECTION
2. QUANTITIES & NOTES

NO.	DATE	REVISION			BY
 exp U.S. Services Inc. Milwaukee, WI BUILDINGS • EARTH & ENVIRONMENT • ENERGY INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY					
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION					
ACCEPTED _____ CHIEF STRUCTURES DESIGN ENGINEER DATE _____					
STRUCTURE B-5-208					
IH 43 SB OVER UNIVERSITY AVENUE					
COUNTY	BROWN	TOWN/CITY/VILLAGE GREEN BAY			
DESIGN SPEC. REHABILITATION N/A					
DESIGNED BY YC	DESIGN CK'D.	VCP	DRAWN BY JYG/YC	PLANS CK'D.	VCP
GENERAL PLAN & CROSS SECTION			SHEET 1 OF 2		



THE OVERLAY THICKNESS INCLUDES 1/2" THICKNESS OF CONCRETE REMOVAL FROM ORIGINAL CONCRETE DECK.

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE: CONSULTANT:
WILLIAM DREHER, P.E. VINOD PATEL, P.E.
(608) 266-8489 (312) 616-7395

BID ITEM NUMBER	BID ITEMS	UNIT	S. ABUT.	N. ABUT.	SUPER.	TOTAL
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	831	831
502.3210	PIGMENTED SURFACE SEALER	SY	10	9	110	129
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	83	83
509.0302	PREPARATION DECKS TYPE 2	SY	-	-	33	33
509.0500	CLEANING DECKS	SY	-	-	831	831
509.1500	CONCRETE SURFACE REPAIR	SF	-	9	25	34
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	1	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	-	-	65	65
509.9010.S.03	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-208	SY	-	-	831	831
509.9050.S	CLEANING PARAPETS	LF	30	27	288	345

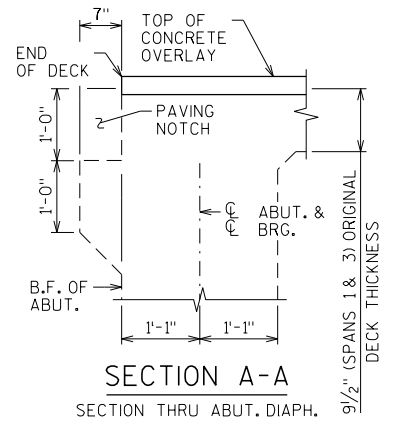
CURVE DATA

TRAFFIC VOLUME

DESIGN DATA

MATERIAL PROPERTIES:		
CONCRETE MASONRY:	OVERLAY DECKS	f'c = 4,000 P.S.I.
	ALL OTHER	f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60:		f _y = 60,000 P.S.I.

APPLY "PIGMENTED SURFACE SEALER" ON THE INSIDE AND TOP
FACES OF PARAPETS, INCLUDING PARAPETS ON ABUTMENT WINGS.



(3-SPAN PRESTRESSED CONCRETE GIRDER, CONCRETE OVERLAY)

LIVE LOAD:
DESIGN LOADING: HS20
INVENTORY RATING: HS14
OPERATING RATING: HS23
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 230 KIPS

MATERIAL PROPERTIES:		
CONCRETE MASONRY:	OVERLAY DECKS	f'c = 4,000 P.S.I.
	ALL OTHER	f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60:		f _y = 60,000 P.S.I.

<u>IH 43</u>	<u>UNIVERSITY AVE</u>
A.D.T. = 40,400 (2036)	A.D.T. = 20,000 (2036)
R.D.S. = 70 MPH	R.D.S. = 40 MPH



DATE: 02/03/2017

1. GENERAL PLAN & CROSS SECTION
2. QUANTITIES & NOTES

NO.	DATE	REVISION	BY

 **exp.** U.S. Services Inc.
Milwaukee, WI
BUILDINGS • EARTH & ENVIRONMENT • ENERGY
INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____
CHIEF STRUCTURES DESIGN ENGINEER DATE _____

STRUCTURE B-5-209

IH 43 NB OVER UNIVERSITY AVENUE	
COUNTY BROWN	TOWN/CITY/VILLAGE GREEN BAY

DESIGN SPEC.									
REHABILITATION N/A									
DESIGNED BY		DESIGN CK'D		DRAWN BY		PLANS CK'D			
YC		VCP		JG/YC		VCP			

GENERAL PLAN &
CROSS SECTOIN

SHEET 1 OF 2

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE: CONSULTANT:
WILLIAM DREHER, P.E. VINOD PATEL, P.E.
(608) 266-8489 (312) 616-7395

CROSS SECTION THRU DECK LOOKING NORTH

** THE OVERLAY THICKNESS INCLUDES 1/2" THICKNESS OF CONCRETE REMOVAL FROM ORIGINAL CONCRETE DECK.

NORMAL TO
TANGENT LINE
5"
←
DIMENSIONS
GIVEN
RADIALLY

STATE PROJECT NUMBER

1227-08-73

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	S. ABUT.	N. ABUT.	SUPER.	TOTAL
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	689	689
502.3210	PIGMENTED SURFACE SEALER	SY	10	9	118	137
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	69	69
509.0302	PREPARATION DECKS TYPE 2	SY	-	-	28	28
509.0500	CLEANING DECKS	SY	-	-	689	689
509.1500	CONCRETE SURFACE REPAIR	SF	-	-	12	12
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	1	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	-	-	54	54
509.9010.S.04	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-209	SY	-	-	689	689
509.9050.S	CLEANING PARAPETS	LF	28	26	310	364

BID ITEM "CONCRETE MASONRY OVERLAY DECKS" ALSO INCLUDES CONCRETE FOR:

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR".

THE QUANTITIES OF "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" ARE BASED ON AN INFRARED THERMOGRAPHIC DECK SURVEY REPORT.

CURVE DATA

R N.B. IH 43

PI = STA. 696'N'+07.459

Δ = 43°-17'-25.48"

D = 1°-30'-00"

T = 1515.82'

L = 2886.027'

R = 3819.719'

SE = 4.4%

RO = 201.00'

PC = STA. 680'N'+91.639

PT = STA. 709'N'+77.665

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS OF EXISTING STRUCTURE MEMBERS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THE EXISTING BITUMINOUS ASPHALTIC OVERLAY SHALL BE REMOVED FROM THE BRIDGE DECK UNDER BID ITEM "REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-209".

AFTER REMOVING EXISTING ASPHALTIC OVERLAY, UP TO 1/2" OF CONCRETE SHALL BE REMOVED FROM ORIGINAL BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", "CONCRETE SURFACE REPAIR", AND "FULL-DEPTH DECK REPAIR" AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.

ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1 INCH DEEP SAW CUT.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 2 1/2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS AS GIVEN ON THE PLANS. IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY AT ABUTMENTS IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

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

CLEAN THE INSIDE FACES AND TOP SURFACE OF THE EXISTING CONCRETE PARAPETS. PARAPET JOINTS SHALL BE CLEANED AND RE-SEALED WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. INCLUDE IN BID ITEM "CLEANING PARAPETS".

APPLY "PROTECTIVE SURFACE TREATMENT" TO THE EXPOSED DECK SURFACE OF THE NEW CONCRETE OVERLAY BETWEEN PARAPETS.

APPLY "PIGMENTED SURFACE SEALER" ON THE INSIDE AND TOP FACES OF PARAPETS, INCLUDING PARAPETS ON ABUTMENT WINGS.

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8

NO. DATE

REVISION

BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-5-209

DRAWN BY YC

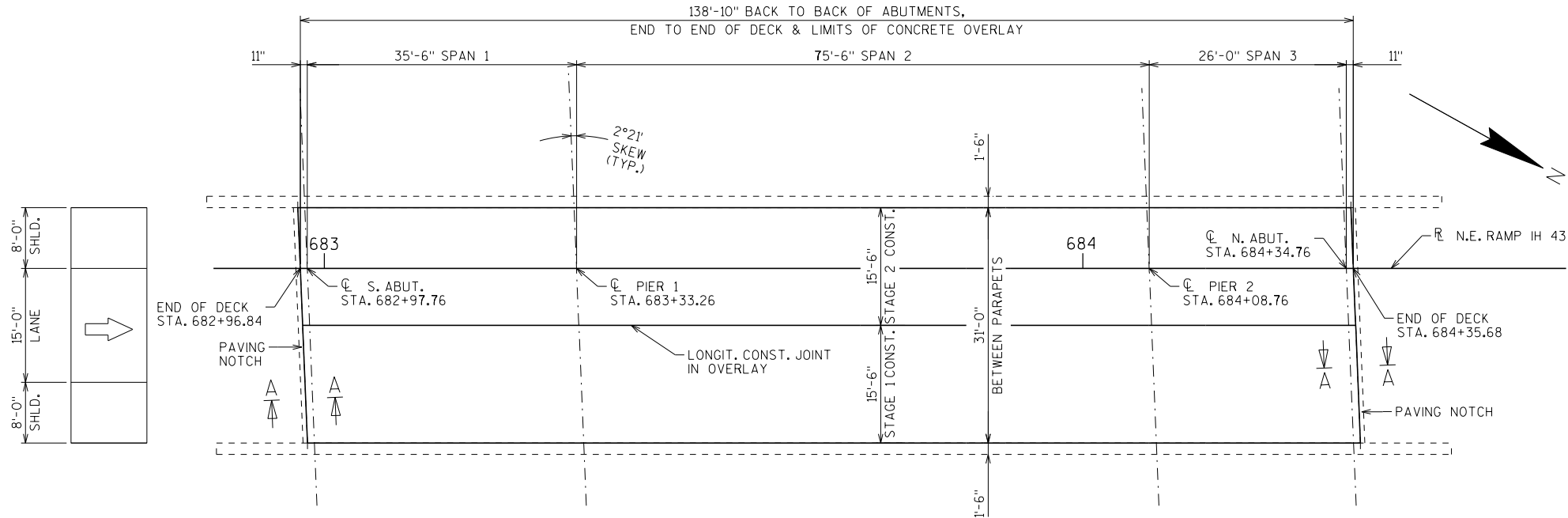
PLANS CK'D. VCP

QUANTITIES & NOTES

SHEET 2 OF 2

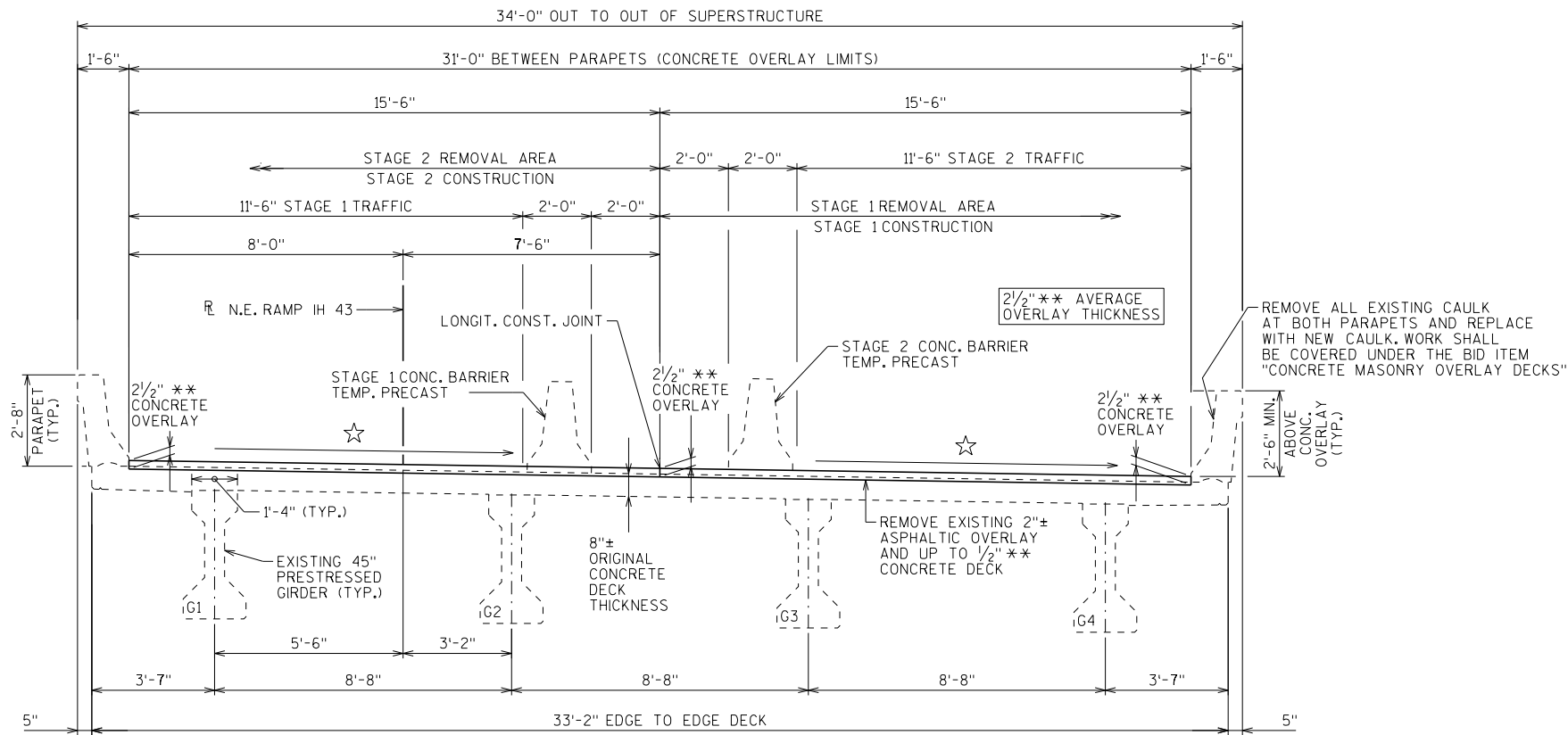
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PLAN

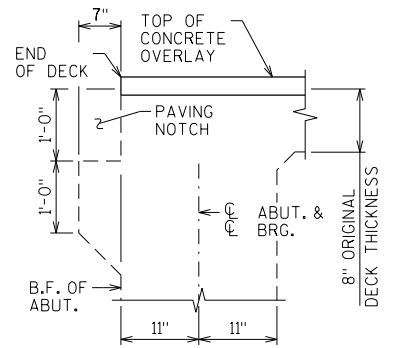
(3-SPAN PRESTRESSED CONCRETE GIRDER, CONCRETE OVERLAY)



CROSS SECTION THRU DECK LOOKING NORTH

☆ NEW CONCRETE OVERLAY SLOPE = 1.5%
EXISTING ASPHALTIC OVERLAY SLOPE = 1.5%
ORIGINAL CONCRETE DECK SLOPE = 1.5%

** THE OVERLAY THICKNESS INCLUDES 1/2" THICKNESS OF CONCRETE REMOVAL FROM ORIGINAL CONCRETE DECK.



SECTION A-A

SECTION THRU ABUT. DIAPH.

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS20
INVENTORY RATING: HS20
OPERATING RATING: HS34
WISCONSIN STANDARD PERMIT VEHICLE (Wis-SPV): 250 KIPS

MATERIAL PROPERTIES:

CONCRETE MASONRY: OVERLAY DECKS f'c = 4,000 P.S.I.
ALL OTHER f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60: fy = 60,000 P.S.I.

TRAFFIC VOLUME

RAMP IH 43 NB - NB STH 53 UNIVERSITY AVE
A.D.T. = 40,400 (2036) A.D.T. = 20,000 (2036)
R.D.S. = 70 MPH R.D.S. = 40 MPH

LIST OF DRAWINGS

- GENERAL PLAN & CROSS SECTION
- QUANTITIES & NOTES



V. Patel

DATE: 02/03/2017

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE: WILLIAM DREHER, P.E. (608) 266-8489
CONSULTANT: VINOD PATEL, P.E. (312) 616-7395

NO.	DATE	REVISION	BY
 exp U.S. Services Inc. Milwaukee, WI BUILDINGS • EARTH & ENVIRONMENT • ENERGY INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED _____ CHIEF STRUCTURES DESIGN ENGINEER _____ DATE _____			
STRUCTURE B-5-210			
RAMP IH 43 NB-STH 54 OVER UNIVERSITY AVENUE			
COUNTY BROWN		TOWN/CITY/VILLAGE GREEN BAY	
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY YC	DESIGN CK'D. VCP	DRAWN BY JJG/YC	PLANS CK'D. VCP
GENERAL PLAN & CROSS SECTION		SHEET 1 OF 2	

8

FILENAME
SCALE

8

8

STATE PROJECT NUMBER
1227-08-73

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	S. ABUT.	N. ABUT.	SUPER.	TOTAL
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	478	478
502.3210	PIGMENTED SURFACE SEALER	SY	9	8	106	123
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	48	48
509.0302	PREPARATION DECKS TYPE 2	SY	-	-	19	19
509.0500	CLEANING DECKS	SY	-	-	478	478
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	1	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	-	-	37	37
509.9010.S.05	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-210	SY	-	-	478	478
509.9050.S	CLEANING PARAPETS	LF	26	24	278	328

BID ITEM "CONCRETE MASONRY OVERLAY DECKS" ALSO INCLUDES CONCRETE FOR:
"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR".

THE QUANTITIES OF "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" ARE BASED ON AN INFRARED THERMOGRAPHIC DECK SURVEY REPORT.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS OF EXISTING STRUCTURE MEMBERS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THE EXISTING BITUMINOUS ASPHALTIC OVERLAY SHALL BE REMOVED FROM THE BRIDGE DECK UNDER BID ITEM "REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-210".

AFTER REMOVING EXISTING ASPHALTIC OVERLAY, UP TO 1/2" OF CONCRETE SHALL BE REMOVED FROM ORIGINAL BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.

ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1 INCH DEEP SAW CUT.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 2 1/2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS AS GIVEN ON THE PLANS. IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY AT ABUTMENTS IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

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

CLEAN THE INSIDE FACES AND TOP SURFACE OF THE EXISTING CONCRETE PARAPETS. PARAPET JOINTS SHALL BE CLEANED AND RE-SEALED WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER, INCLUDE IN BID ITEM "CLEANING PARAPETS".

APPLY "PROTECTIVE SURFACE TREATMENT" TO THE EXPOSED DECK SURFACE OF THE NEW CONCRETE OVERLAY BETWEEN PARAPETS.

APPLY "PIGMENTED SURFACE SEALER" ON THE INSIDE AND TOP FACES OF PARAPETS, INCLUDING PARAPETS ON ABUTMENT WINGS.

8

8

NO. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-5-210

DRAWN BY YC PLANS CK'D. VCP

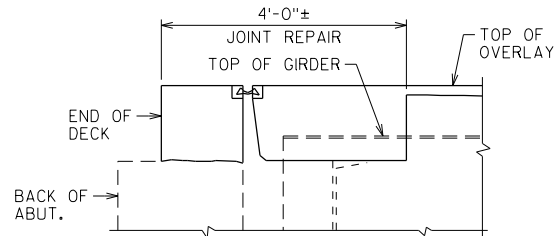
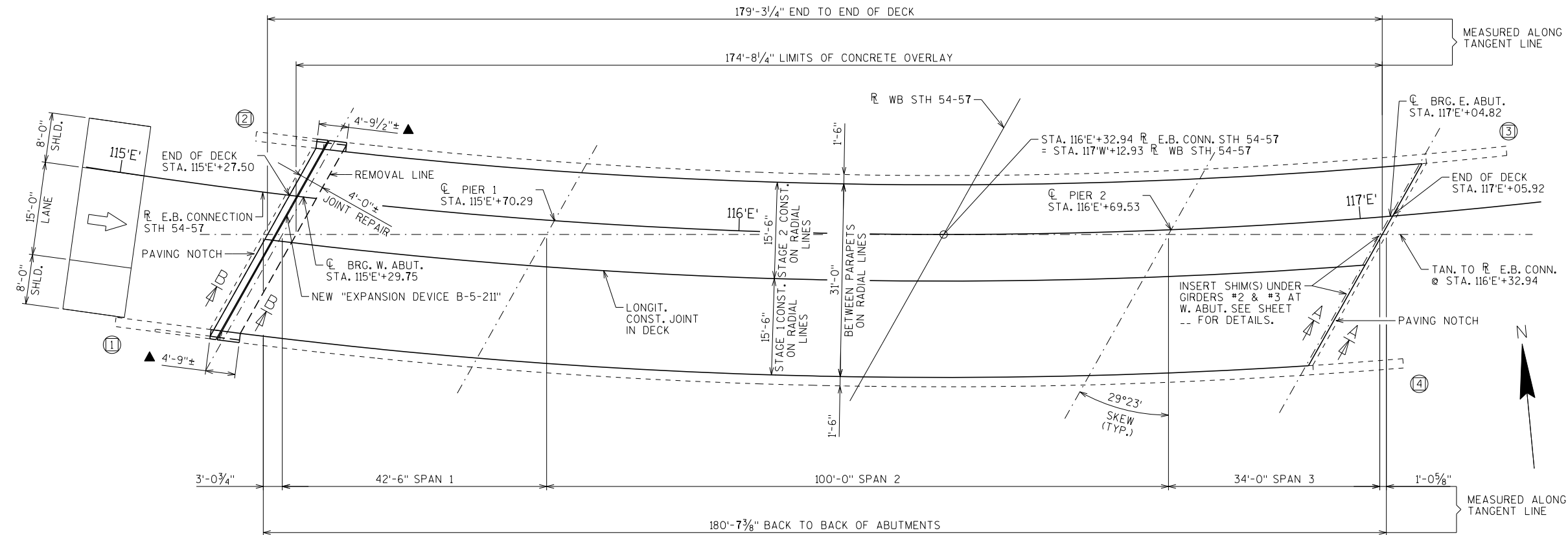
QUANTITIES & NOTES

SHEET 2 OF 2

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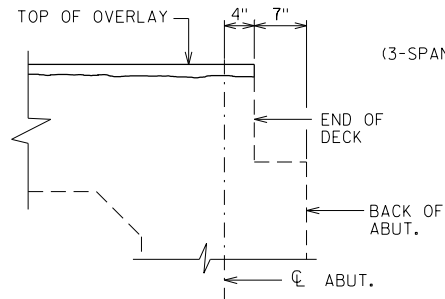
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SECTION B-B

SEE SHEET -- FOR DETAILS.



SECTION A-A

PLAN
(3-SPAN STEEL GIRDER, CONCRETE OVERLAY)

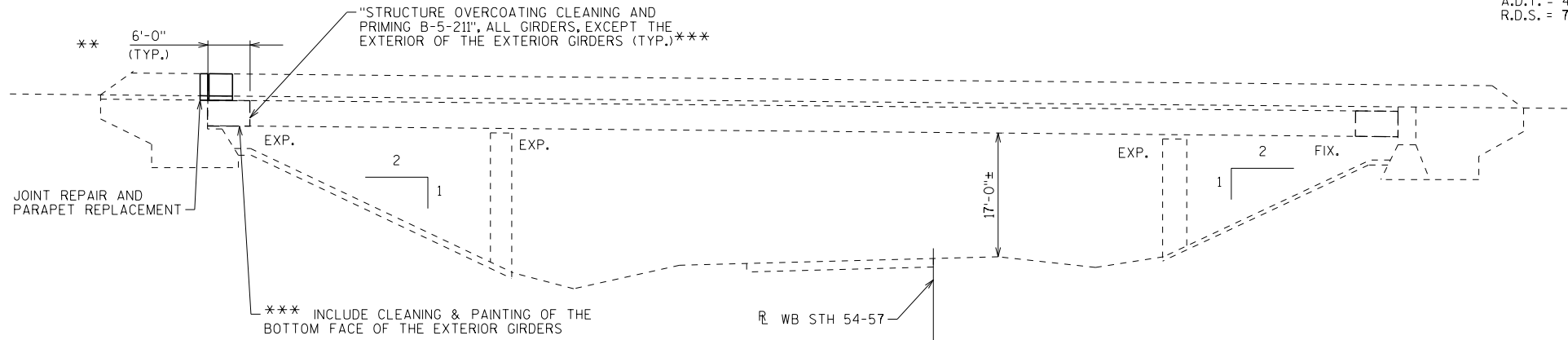
- ⊖ INDICATES WINGWALL NUMBER
▲ PARAPET REPLACEMENT AREA.
SEE SHEET -- FOR DETAILS.

DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HS20
INVENTORY RATING: HS20
OPERATING RATING: HS34
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 220 KIPS
MATERIAL PROPERTIES:
CONCRETE MASONRY: OVERLAY DECKS f'c = 4,000 P.S.I.
ALL OTHER f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60: fy = 60,000 P.S.I.

TRAFFIC VOLUME

RAMP IH 43 SB - EB STH 54 A.D.T. = 40,400 (2036) R.D.S. = 70 MPH
STH 54 WB - STH 57 SB A.D.T. = 20,000 (2036) R.D.S. = 70 MPH



ELEVATION

NORMAL TO STH 54-57 WB
(LOOKING NORTH)

** DIMENSION IS TAKEN PARALLEL TO C GIRDERS.

STATE PROJECT NUMBER

1227-08-73

CURVE DATA

R E.B. CONN. STH 54-57
PI = STA. 119'E+29.65
Δ = 8°-15'-29"
D = 6°-30'-00"
T = 840.27'
L = 1342.43'
R = 881.474'
SE = 6.0%
RO = 150.0'



V. Patel

DATE: 02/03/2017

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. CROSS SECTION, QUANTITIES & NOTES
3. JOINT REPAIR
4. EXPANSION DEVICE
5. JOINT REPAIR - BILL OF BARS
6. COVER PLATE DETAILS

NO.	DATE	REVISION	BY
 exp U.S. Services Inc. Milwaukee, WI BUILDINGS • EARTH & ENVIRONMENT • ENERGY INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED _____		_____ DATE _____	
CHIEF STRUCTURES DESIGN ENGINEER			
STRUCTURE B-5-211			
RAMP IH 43 SB-STH 54 OVER STH 54 WB-STH 57 SB			
COUNTY	BROWN	TOWN/CITY/VILLAGE	GREEN BAY
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY	YC	DESIGN CK'D.	VCP
DRAWN BY	JJG/YC	PLANS CK'D.	VCP
GENERAL PLAN & ELEVATION		SHEET 1 OF 6	

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE:
WILLIAM DREHER, P.E.
(608) 266-8489
CONSULTANT:
VINOD PATEL, P.E.
(312) 616-7395

FILENAME
SCALE

STATE PROJECT NUMBER

1227-08-73

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	W. ABUT.	E. ABUT.	SUPER.	TOTAL
502.3100.04	EXPANSION DEVICE B-5-211	LS	-	-	-	1
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	611	611
502.3210	PIGMENTED SURFACE SEALER	SY	10	10	134	154
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	42	-	-	42
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,390	-	-	1,390
505.0904	BAR COUPLERS NO. 4	EACH	4	-	-	4
505.0905	BAR COUPLERS NO. 5	EACH	3	-	-	3
505.0906	BAR COUPLERS NO. 6	EACH	16	-	-	16
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	61	61
509.0302	PREPARATION DECKS TYPE 2	SY	-	-	25	25
509.0500	CLEANING DECKS	SY	-	-	595	595
509.1000	JOINT REPAIR	SY	-	-	19	19
509.1500	CONCRETE SURFACE REPAIR	SF	-	-	4	4
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	1	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	-	-	54	54
509.9010.S.06	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-211	SY	-	-	595	595
509.9050.S	CLEANING PARAPETS	LF	28	28	345	401
517.3000.S.04	STRUCTURE OVERCOATING CLEANING AND PRIMING B-5-211	LS	-	-	-	1
517.4000.S.04	CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-5-211	LS	-	-	-	1

BID ITEM "CONCRETE MASONRY OVERLAY DECKS" ALSO INCLUDES CONCRETE FOR:

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", "FULL-DEPTH DECK REPAIR", AND "JOINT REPAIR".

THE QUANTITIES OF "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" ARE BASED ON AN INFRARED THERMOGRAPHIC DECK SURVEY REPORT.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS OF EXISTING STRUCTURE MEMBERS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THE EXISTING BITUMINOUS ASPHALTIC OVERLAY SHALL BE REMOVED FROM THE BRIDGE DECK UNDER BID ITEM "REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-211".

AFTER REMOVING EXISTING ASPHALTIC OVERLAY, UP TO 1/2" OF CONCRETE SHALL BE REMOVED FROM ORIGINAL BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", "CONCRETE SURFACE REPAIR", AND "FULL-DEPTH DECK REPAIR" AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.

ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1 INCH DEEP SAW CUT.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 2 1/2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS AS GIVEN ON THE PLANS. IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY OR JOINT REPAIRS AT ABUTMENTS IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

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

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

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

APPLY BRIDGE SEAT PROTECTION, AS PER SECTION 502.3.12 OF THE STANDARD SPECIFICATIONS, TO THE TOP SURFACE OF WEST ABUTMENT BELOW EXPANSION DEVICE. POWER WASH AND ADEQUATELY DRY SURFACES BEFORE APPLICATION. WORK TO BE INCIDENTAL TO "JOINT REPAIR".

CLEAN AND PAINT THE END 6 FEET OF ALL STRUCTURAL WEATHERING STEEL AT BOTH ABUTMENTS, EXCEPT THE EXTERIOR OF THE EXTERIOR GIRDERS. USE A FEDERAL STANDARD COLOR NO. 20059 (BROWN) FOR THE TOP COAT.

CLEAN AND PAINT ALL BEARINGS AT WEST ABUTMENT. CLEANING AND PAINTING OF BEARINGS IS INCLUDED WITH "STRUCTURE OVERCOATING CLEANING AND PRIMING B-5-211".

CLEAN THE INSIDE FACES AND TOP SURFACE OF THE EXISTING CONCRETE PARAPETS. PARAPET JOINTS SHALL BE CLEANED AND RE-SEALED WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. INCLUDE IN BID ITEM "CLEANING PARAPETS".

APPLY "PROTECTIVE SURFACE TREATMENT" TO THE EXPOSED DECK SURFACE OF THE NEW CONCRETE OVERLAY BETWEEN PARAPETS AND EXPOSED TOP SURFACE OF JOINT REPAIR.

APPLY "PIGMENTED SURFACE SEALER" ON THE INSIDE AND TOP FACES OF PARAPETS, INCLUDING PARAPETS ON ABUTMENT WINGS.

8

CHUNYM

2-03-2017, 14:20:31

\\\\PCHAPP004\\AM\\VAULT\\I.D--TRANS_07\\TDC\\WIS\\00214891-A0\\STRUCT\\CAD\\1B0502\\1\\A EXP\\SHEET\\02_S\\11\\A001.SHT

\$\$\$\$ref_list_name\$\$\$\$

CROSS SECTION THRU DECK LOOKING EAST

34'-0" OUT TO OUT OF SUPERSTRUCTURE

1'-6"

31'-0" BETWEEN PARAPETS (CONCRETE OVERLAY LIMITS)

1'-6"

15'-6"

15'-6"

STAGE 2 REMOVAL AREA

STAGE 2 CONSTRUCTION

2'-0"

2'-0"

11'-6" STAGE 2 TRAFFIC

11'-6" STAGE 1 TRAFFIC

2'-0"

2'-0"

STAGE 1 REMOVAL AREA

STAGE 1 CONSTRUCTION

8'-0"

7'-6"

LONGIT. CONST. JOINT

2 1/2" ** CONC. OVERLAY

2 1/2" ** AVERAGE OVERLAY THICKNESS

STAGE 2 CONC. BARRIER TEMP. PRECAST

2 1/2" ** CONCRETE OVERLAY

2'-6" MIN. ABOVE CONC. OVERLAY (TYP.)

2'-8" PARAPET (TYP.)

REMOVE ALL EXISTING CAULK AT BOTH PARAPETS AND REPLACE WITH NEW CAULK. WORK SHALL BE COVERED UNDER THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS"

DIMENSIONS GIVEN RADIALLY

5"

33'-2" EDGE TO EDGE DECK

5"

DIMENSIONS GIVEN RADIALLY

EXISTING STEEL * PLATE GIRDER, 40" WEB, NO HAUNCH (TYP.)

G1

6'-0"

3'-0"

INSERT SHIM(S) UNDER GIRDERS #2 & #3 AT W. ABUT. SEE SHEET -- FOR DETAILS.

G2

9'-0"

9'-0"

9'-0"

9'-0"

3'-1"

3'-1"

8"± ORIGINAL CONCRETE DECK THICKNESS

REMOVE EXISTING 2"± ASPHALTIC OVERLAY AND UP TO 1/2" ** CONCRETE DECK

G3

G4

* WEATHERING STEEL

☆ NEW CONCRETE OVERLAY SLOPE = 6.0%
EXISTING ASPHALTIC OVERLAY SLOPE = 6.0%
ORIGINAL CONCRETE DECK SLOPE = 6.0%

** THE OVERLAY THICKNESS INCLUDES 1/2" THICKNESS OF CONCRETE REMOVAL FROM ORIGINAL CONCRETE DECK.

NO.

DATE

REVISION

BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-5-211

DRAWN BY YC

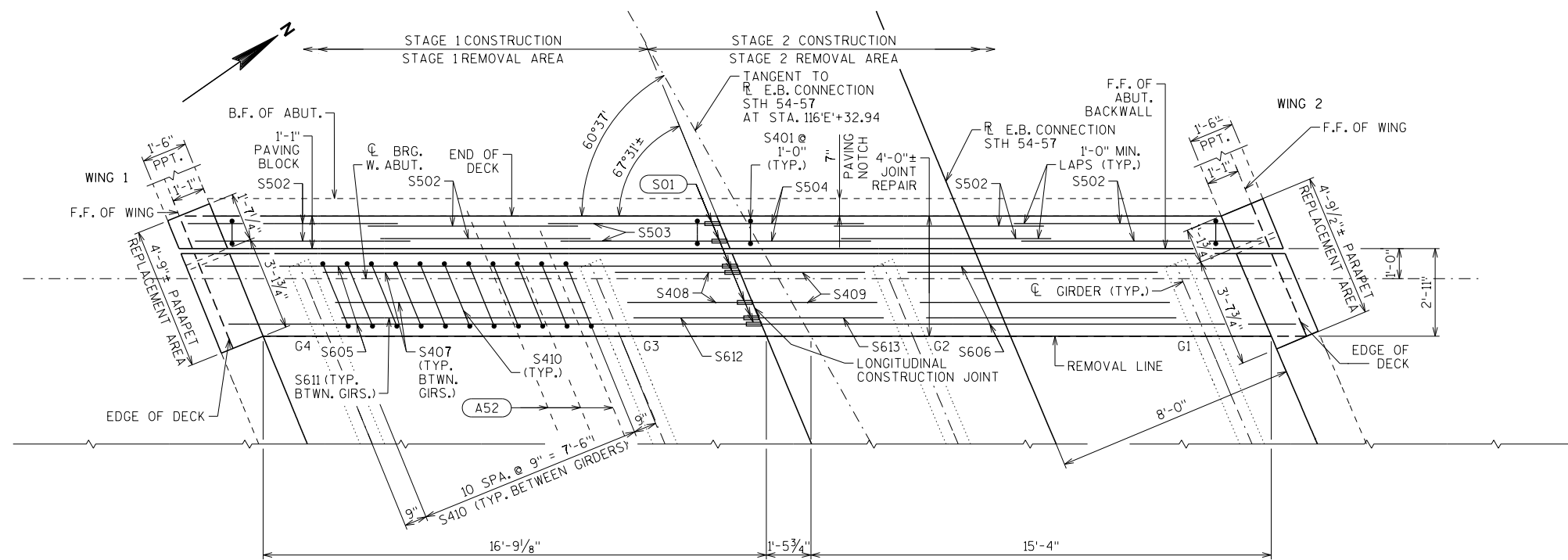
PLANS CK'D. VCP

CROSS SECTION, QUANTITIES & NOTES

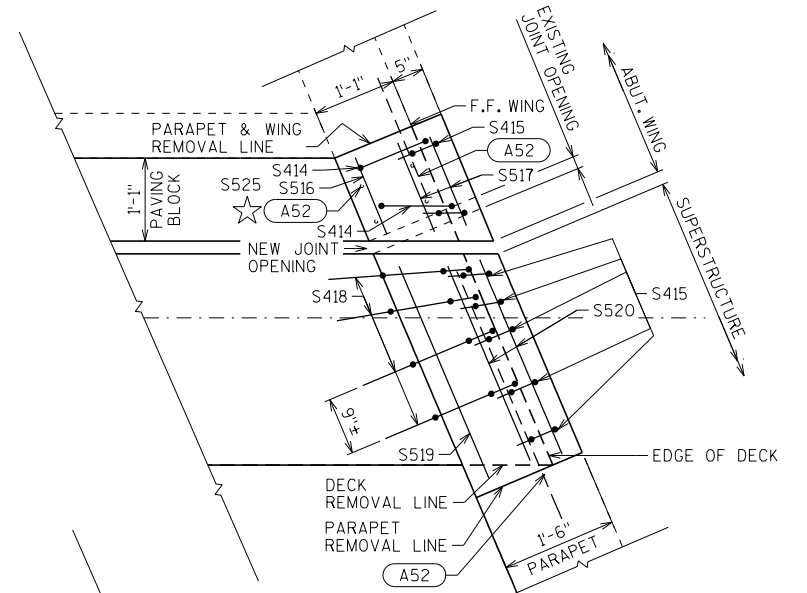
SHEET 2 OF 6

8

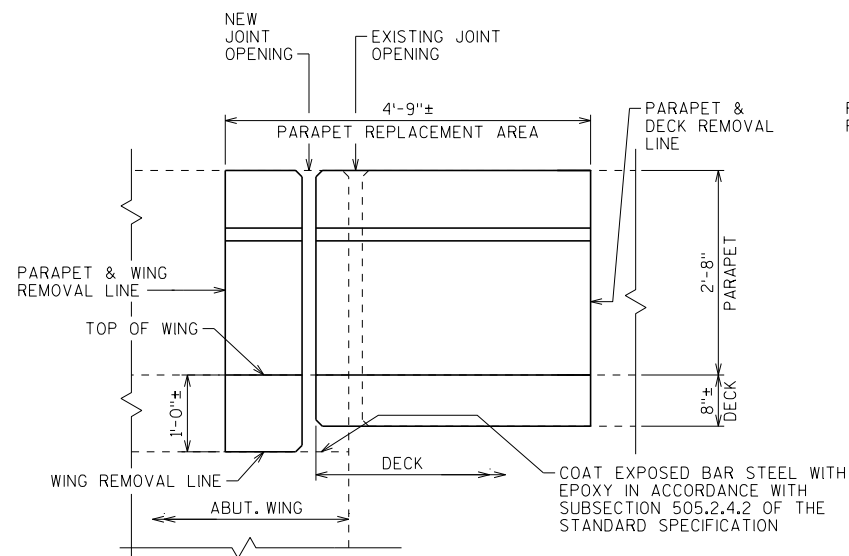
S01 BAR COUPLERS USED. BAR LENGTH COMPUTED TO $\frac{1}{2}$ OF LONGIT. JOINT & SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURERS' RECOMMENDATIONS.



WEST ABUTMENT "JOINT REPAIR" PLAN

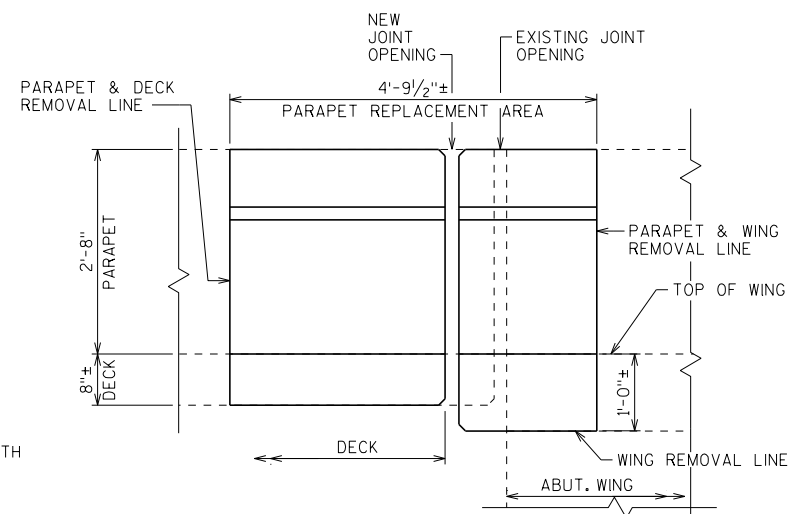


PLAN DETAIL OF PARAPET REPLACEMENT AREA
AT WING CORNER 2



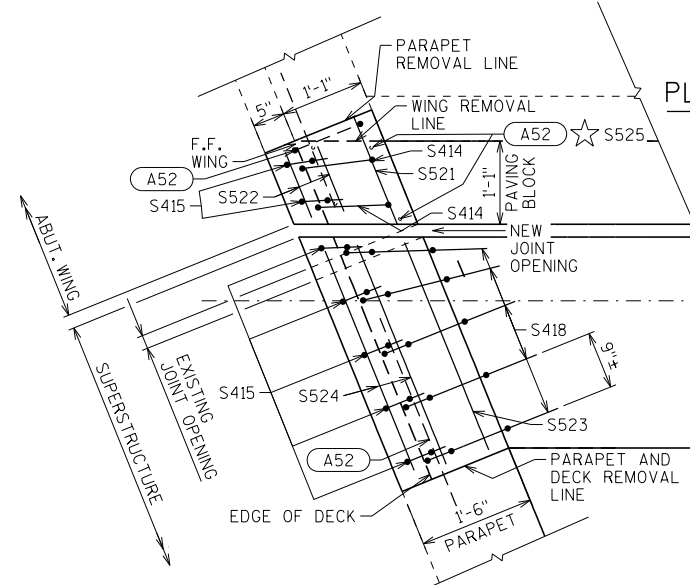
ELEVATION OF NEW WING CORNER 1

SHOWING NEW CONCRETE AREAS FOR "JOINT REPAIR"
(LOOKING AT OUTSIDE FACE OF PARAPET)



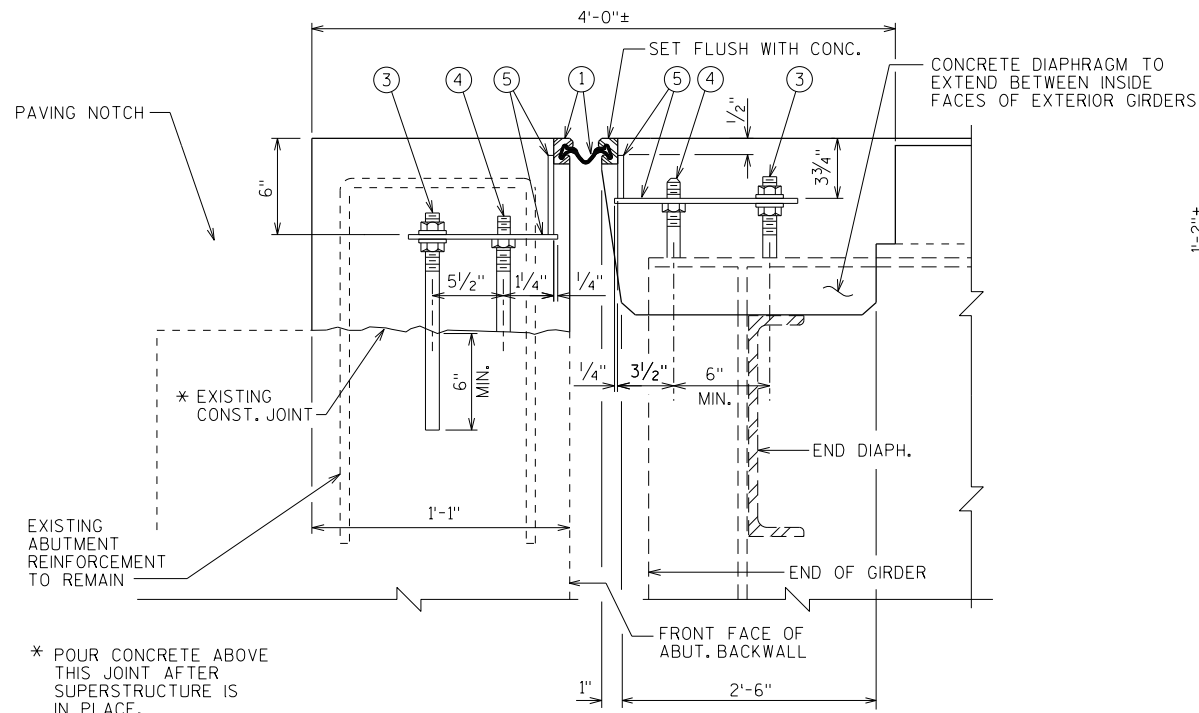
ELEVATION OF NEW WING CORNER 2

SHOWING NEW CONCRETE AREAS FOR "JOINT REPAIR"
(LOOKING AT OUTSIDE FACE OF PARAPET)

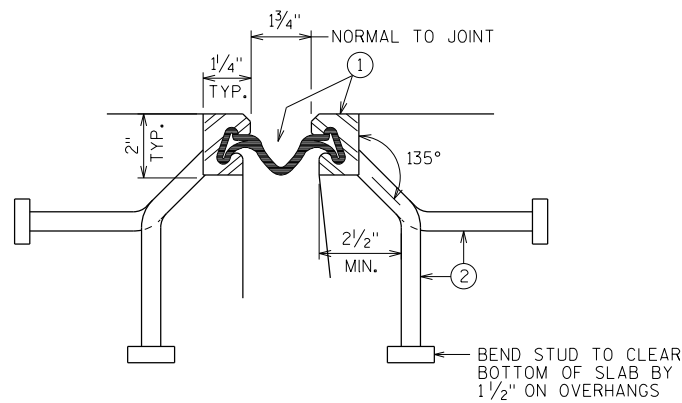


PLAN DETAIL OF PARAPET REPLACEMENT AREA
AT WING CORNER 1

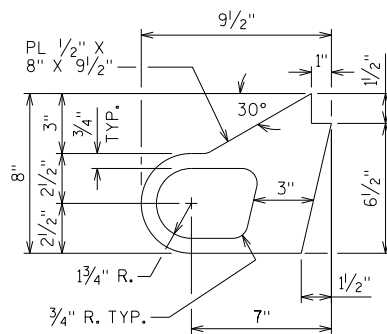
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-211			
		DRAWN BY J JG	PLANS CK'D. YC
JOINT REPAIR		SHEET 3 OF 6	



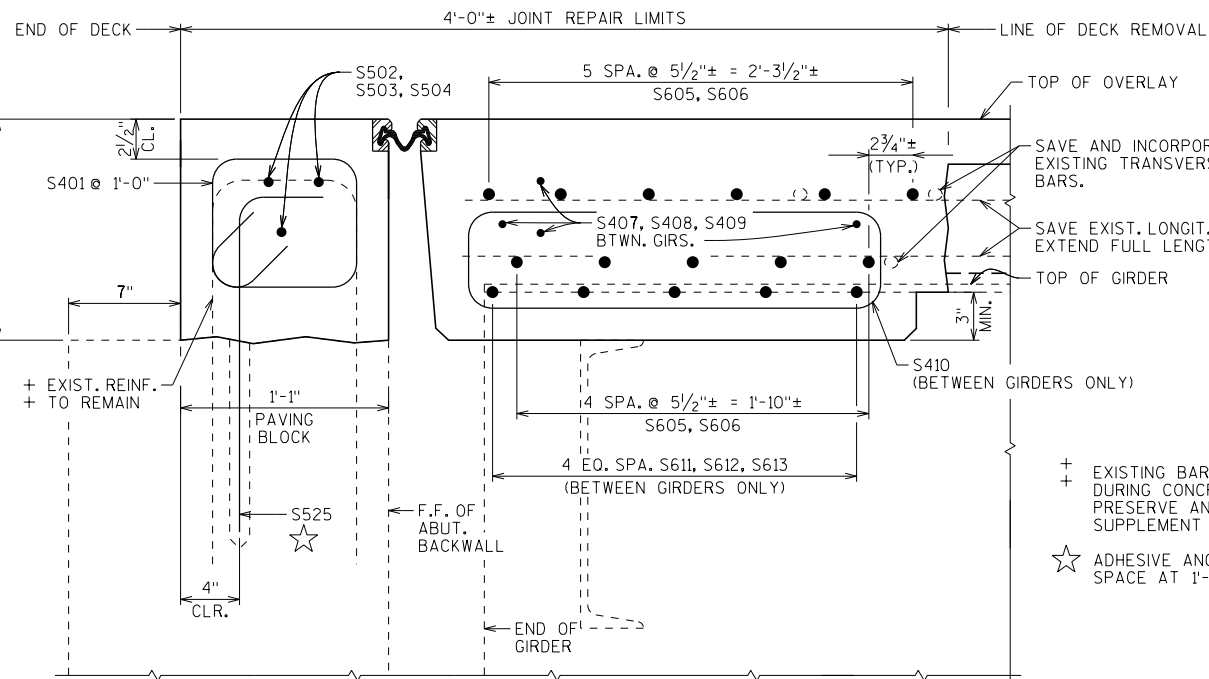
SECTION THRU JOINT AT W. ABUTMENT
NORMAL TO ϕ SUBSTRUCTURE



SECTION THRU JOINT
EXTERIOR GIRDER TO EDGE OF DECK AND AT PARAPETS, MEDIANS AND SIDEWALKS



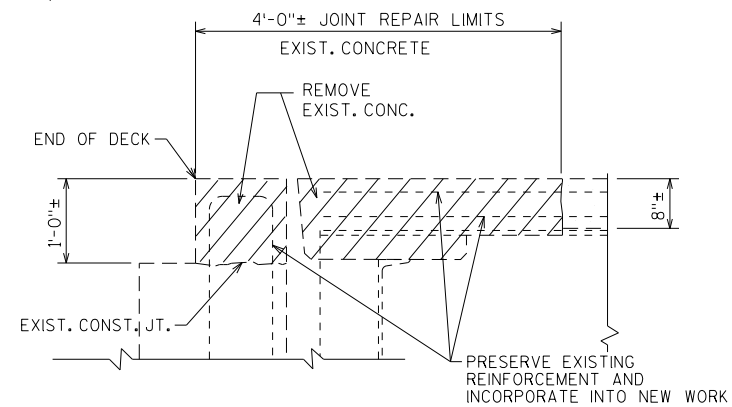
ALTERNATE STRIP SEAL ANCHOR



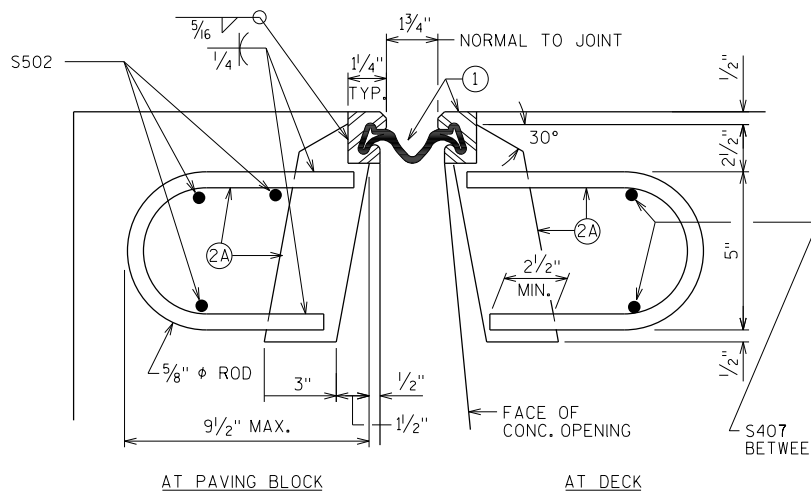
SECTION THRU JOINT AT W. ABUTMENT
NORMAL TO ϕ SUBSTRUCTURE
SHOWING REINFORCEMENT

LEGEND

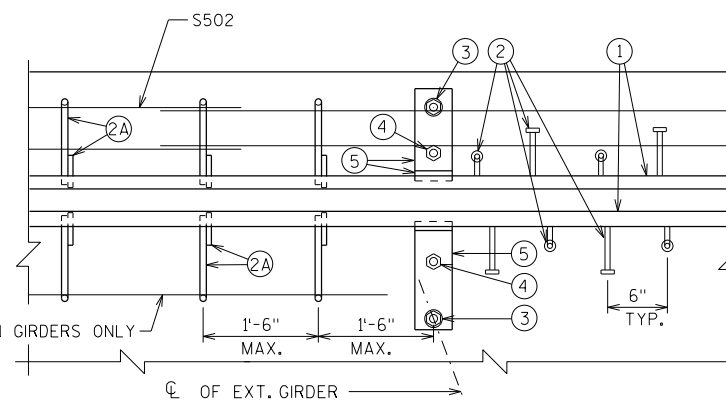
- NEOPRENE STRIP SEAL (4 - INCH) AND STEEL EXTRUSIONS.
- STUDS $\frac{5}{8}$ " ϕ X 6 $\frac{3}{8}$ " LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
- $\frac{1}{2}$ " THICK ANCHOR PLATE WITH $\frac{5}{8}$ " ϕ ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE,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



JOINT REPAIR - REMOVAL
SECTION THRU EXISTING EXPANSION JOINT
AT W. ABUTMENT
NORMAL TO ϕ SUBSTRUCTURE



SECTION THRU JOINT
ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS.



PART PLAN

NOTES

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

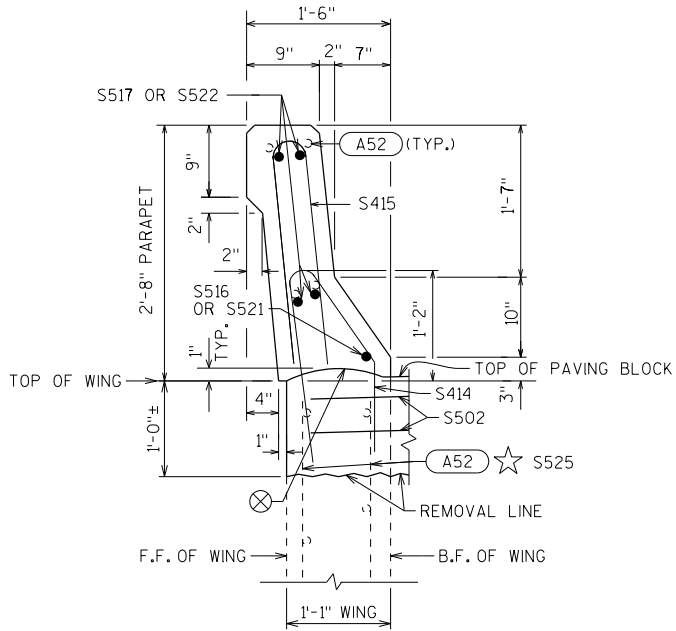
AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST AND SWEEP.

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

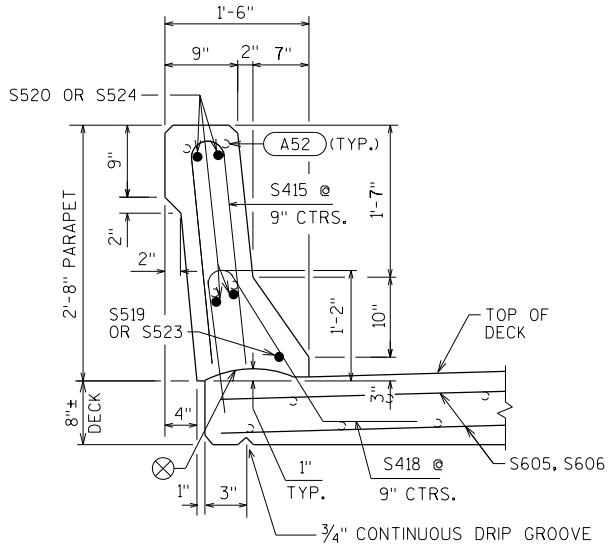
SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

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

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE B-5-211".



NEW SECTION THRU PARAPET ON WING



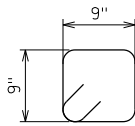
NEW SECTION THRU PARAPET ON DECK

⊗ CONST. JOINT - STRIKE OFF AS SHOWN.

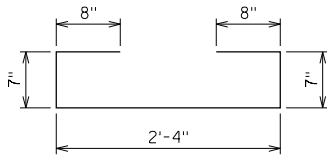
A52 SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.

THE NEW ADDITIONAL HORIZONTAL REINFORCEMENT REQUIRED IN THE PARAPETS SHALL BE TIED TO THE EXISTING HORIZONTAL REINFORCEMENT.

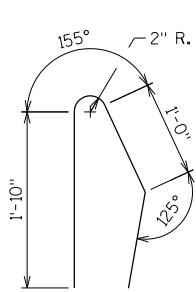
☆ IF EXISTING BARS ARE SEVERELY CORRODED OR DAMAGED DURING CONCRETE REMOVAL, REPLACE WITH BARS S525 ANCHORED WITH ADHESIVE ANCHORS NO. 5 BAR, EMBED BARS 1'-0" MIN. INTO EXISTING CONC. PLACE 4" CL. MIN. OF VERT. CONC. FACE.



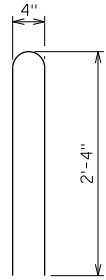
S401



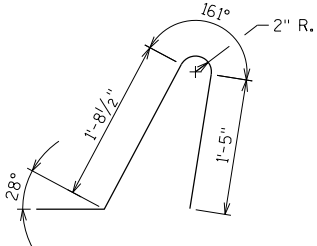
S410



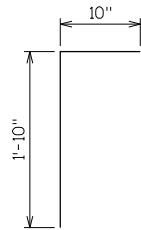
S414



S415



S418



S525

BILL OF BARS

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
BAR DIMENSIONS ARE OUT TO OUT OF BAR.

BAR MARK	COAT	NO. REQ'D		LENGTH	BENT	BAR SERIES	LOCATION
		W. ABUT.	E. ABUT.				
S401	X	34	-	3'-6"	X		PAVING BLOCK - VERT. - STIRRUP - AT STAGE 1 & 2 CONST.
S502	X	12	-	7'-0"			PAVING BLOCK - HORIZ. - AT STAGE 1 & 2 CONST.
S503	X	3	-	5'-10"			PAVING BLOCK - HORIZ. - AT STAGE 1 CONST.
S504	X	3	-	5'-10"			PAVING BLOCK - HORIZ. - AT STAGE 2 CONST.
S605	X	11	-	17'-9"			DECK - HORIZ. - TRANS. - TOP & BOT. - AT STAGE 1 CONST.
S606	X	11	-	17'-9"			DECK - HORIZ. - TRANS. - TOP & BOT. - AT STAGE 2 CONST.
S407	X	8	-	8'-4"			DECK - HORIZ. - TRANS. - BTWN. GIRS. - AT STAGE 1 & 2 CONST.
S408	X	4	-	4'-2"			DECK - HORIZ. - TRANS. - BTWN. G2 & G3 - AT STAGE 1 CONST.
S409	X	4	-	4'-2"			DECK - HORIZ. - TRANS. - BTWN. G2 & G3 - AT STAGE 2 CONST.
S410	X	33	-	4'-6"	X		DECK/CONC. DIAPH. - VERT. - BTWN. GIRS. - AT STAGE 1 & 2 CONST.
S611	X	10	-	8'-4"			CONC. DIAPH. - BOT. - HORIZ. - TRANS. - BTWN. GIRS. - AT STAGE 1 & 2 CONST.
S612	X	5	-	4'-2"			CONC. DIAPH. - BOT. - HORIZ. - TRANS. - BTWN. G2 & G3 - AT STAGE 1 CONST.
S613	X	5	-	4'-2"			CONC. DIAPH. - BOT. - HORIZ. - TRANS. - BTWN. G2 & G3 - AT STAGE 2 CONST.
S414	X	4	-	4'-3"	X		WING & PARAPET - VERT. - TRANS. - AT WING CORNERS 1 & 2
S415	X	14	-	4'-10"	X		PARAPET - VERT. - TRANS. - ABOVE DECK AND WINGS - AT WING CORNERS 1 & 2
S516	X	1	-	1'-1"			WING PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 2
S517	X	4	-	1'-3"			WING PARAPET - HORIZ. - LONGIT. - AT WING CORNER 2
S418	X	9	-	4'-3"	X		DECK & PARAPET- VERT. - TRANS. - AT WING CORNERS 1 & 2
S519	X	1	-	3'-1"			DECK PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 2
S520	X	4	-	2'-9"			DECK PARAPET - HORIZ. - LONGIT. - AT WING CORNER 2
S521	X	1	-	1'-3"			WING PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 1
S522	X	4	-	0'-11"			WING PARAPET - HORIZ. - LONGIT. - AT WING CORNER 1
S523	X	1	-	2'-11"			DECK PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 1
S524	X	4	-	3'-1"			DECK PARAPET - HORIZ. - LONGIT. - AT WING CORNER 1
S525	X	42	-	2'-7"	X		PAVING BLOCK & ENDS OF ABUT. BACKWALL - VERT. - DOWEL - AT STAGE 1 & 2 CONST.
- - -			-				

* BAR COUPLERS USED, BAR LENGTH COMPUTED UP TO THE LONGIT. CONST. JOINT AND SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURERS' RECOMMENDATIONS.
** ADHESIVE ANCHORS NO. 5 BAR.

STATE PROJECT NUMBER

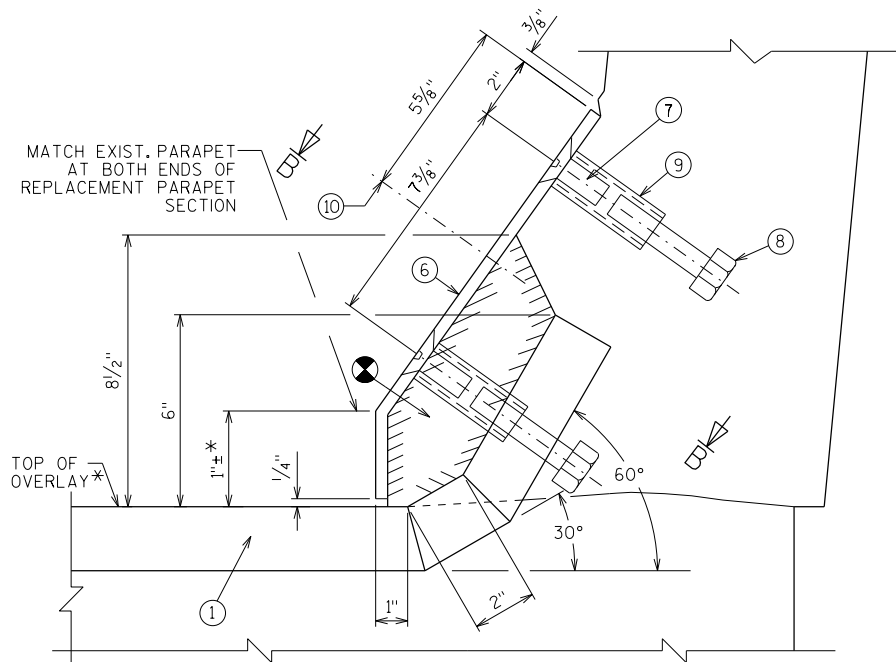
1227-08-73

UNCOATED: 0 LBS
COATED: 1390 LBS
W. ABUT. 0 LBS
E. ABUT. 0 LBS

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-211			
DRAWN BY JJG		PLANS CK'D. YC	
JOINT REPAIR - BILL OF BARS		SHEET 5 OF 6	

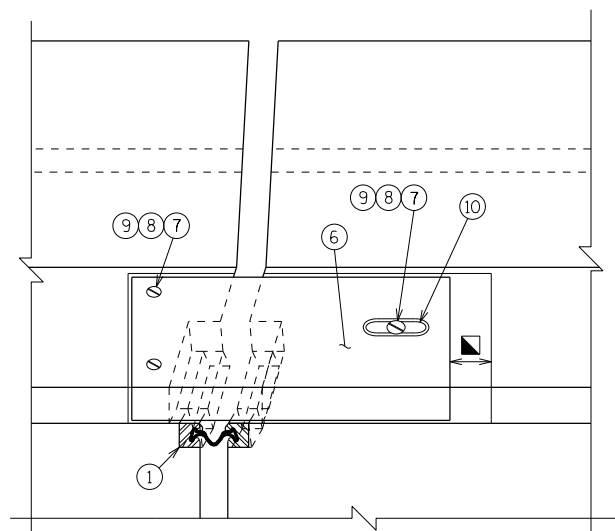
LEGEND

- ① NEOPRENE STRIP SEAL (4 - INCH) AND STEEL EXTRUSIONS.
- ② STUDS $\frac{5}{8}$ " ϕ X $6\frac{3}{8}$ " LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
- ⑥ GALVANIZED PLATE $\frac{3}{8}$ " X 1'-2" X 2'-0" LONG WITH HOLES FOR NO. 7. BEND AS SHOWN.
- ⑦ $\frac{3}{4}$ " ϕ X $1\frac{1}{2}$ " STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS $\frac{1}{16}$ " BELOW PLATE SURFACE.
- ⑧ $\frac{3}{4}$ " ϕ X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
- ⑨ $\frac{3}{4}$ " ϕ X $2\frac{1}{4}$ " GALVANIZED THREADED COUPLING.
- ⑩ 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.

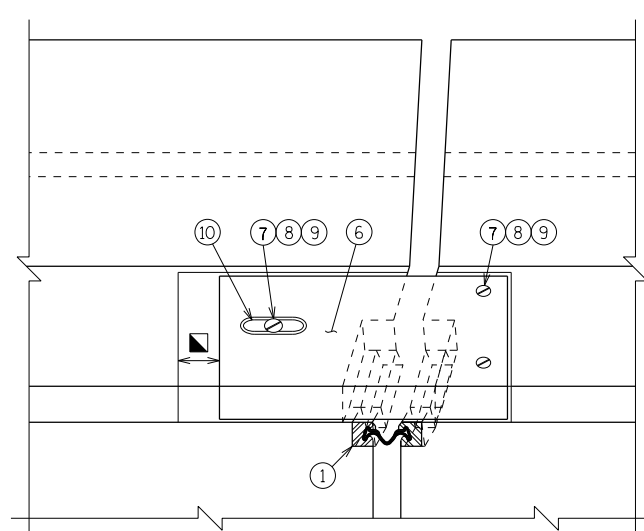


SECTION A-A

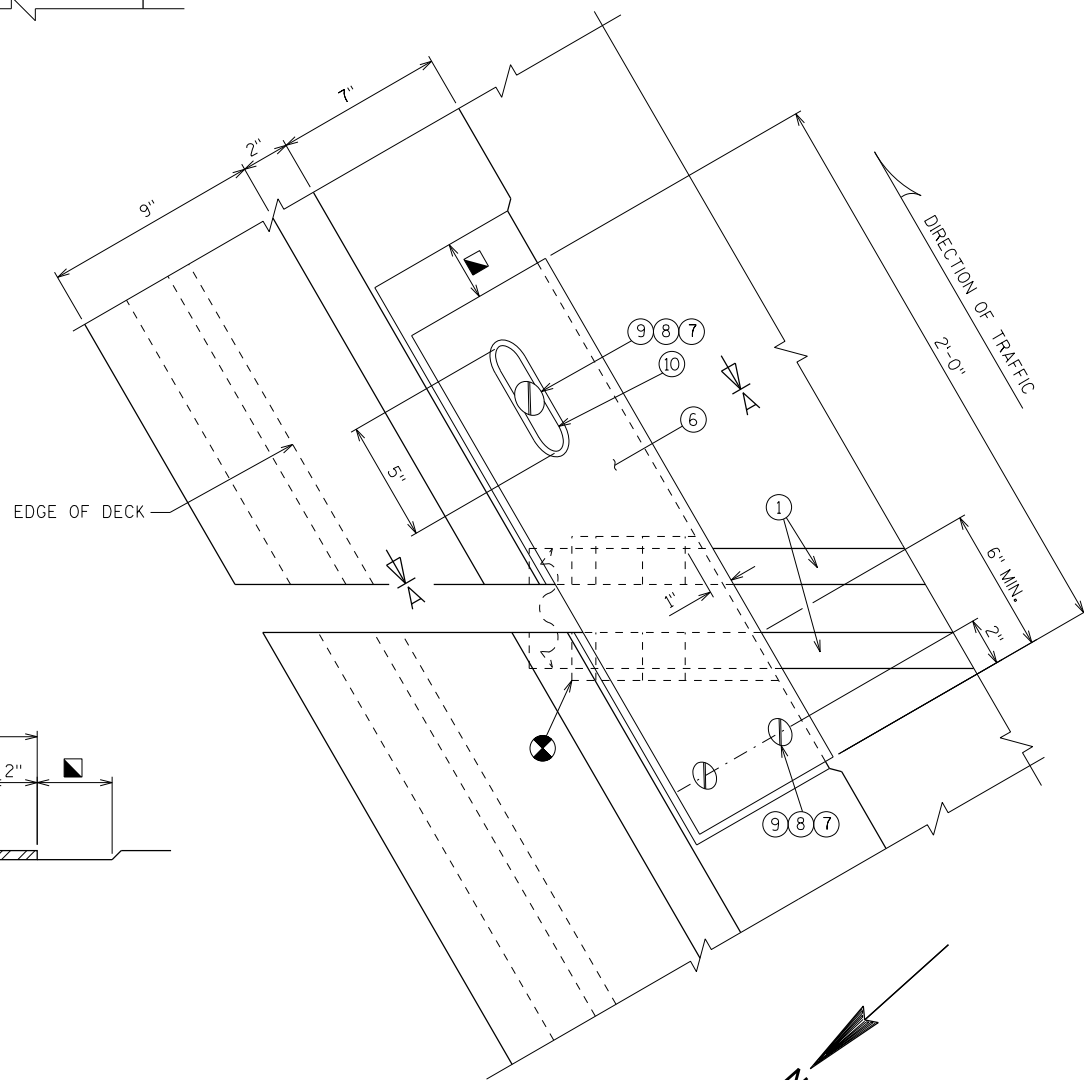
* TOP OF OVERLAY
@ 2" ABOVE TOP
OF ORIGINAL DECK.

VIEW OF PARAPET PLATE
FROM ROADWAY

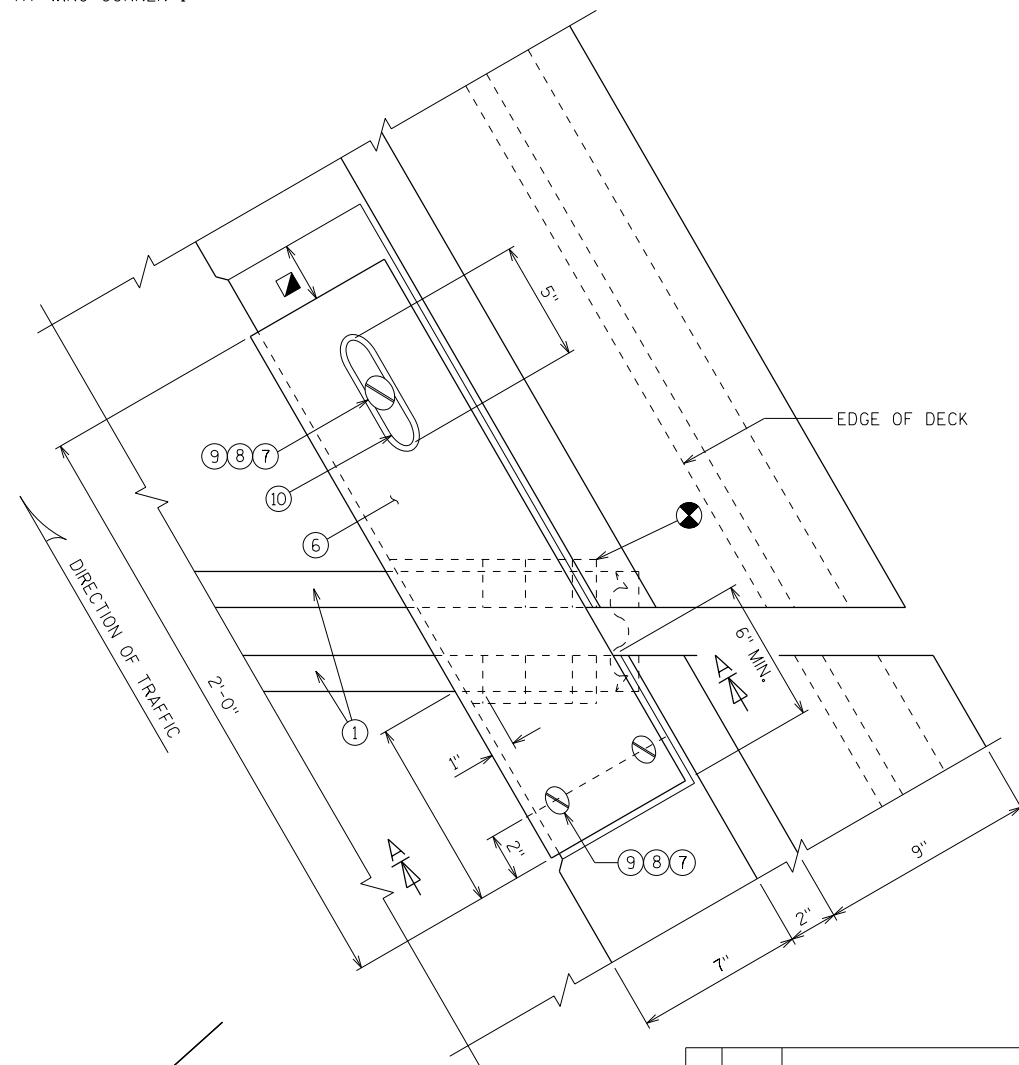
AT WING CORNER 2

VIEW OF PARAPET PLATE
FROM ROADWAY

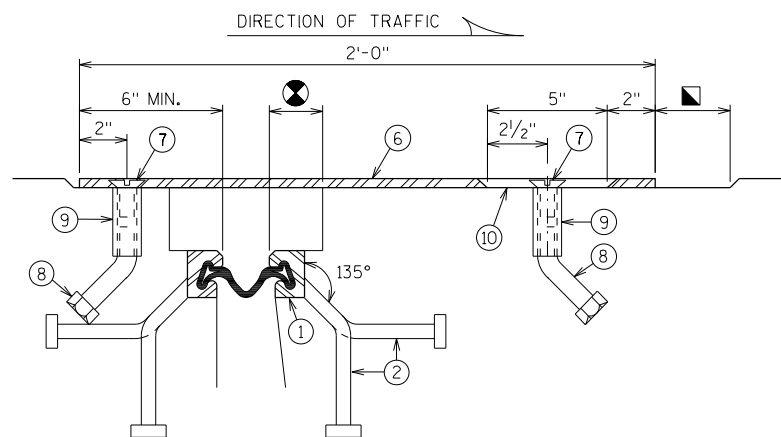
AT WING CORNER 1



PLAN AT WING CORNER 2



PLAN AT WING CORNER 1



SECTION B-B

AT WING CORNER 1
OPPOSITE HAND AT WING CORNER 2

- ⊗ BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.
▣ JOINT OPENING DIMENSION ALONG SKEW PLUS $\frac{1}{2}$ ".

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-211			
DRAWN BY JJC		PLANS CK'D. YC	
COVER PLATE DETAILS		SHEET 6 OF 6	

Tr. S.B. IH 43
 PI = STA. 695'S+72.537
 Δ = 43°-17'-25.59"
 D = 1°-32'-07.34"
 L = 1480.90'
 T = 2819.54'
 R = 3731.719'
 SE = 4.4%
 RO = 201.00'
 PC = STA. 680'S+91.639
 PT = STA. 709'S+11.177 BK=
 STA. 709'S+77.665 AH

LIVE LOAD:
DESIGN LOADING: HS20
INVENTORY RATING: HS20
OPERATING RATING: HS44
WISCONSIN STANDARD PERMIT VEHICLE (Wis-SPV): 250 KIPS

CONCRETE MASONRY:	OVERLAY DECKS	f'c = 4,000 P.S.I.
	ALL OTHER	f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60:		f _y = 60,000 P.S.I.

<u>IH 43</u>	<u>STH 54 EB - STH 57 NB</u>
A.D.T. = 50,400 (2036)	A.D.T. = 20,000 (2036)
R.D.S. = 70 MPH	R.D.S. = 70 MPH

1. GENERAL PLAN & CROSS SECTION
2. QUANTITIES & NOTES

 **exp. U.S. Services Inc.**
Milwaukee, WI
BUILDINGS • EARTH & ENVIRONMENT • ENERGY
INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY

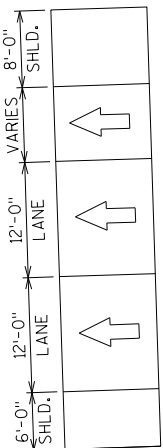
ACCEPTED _____
CHIEF STRUCTURES DESIGN ENGINEER DATE _____

IH 43 SB OVER STH 54 EB-STH 57 NB

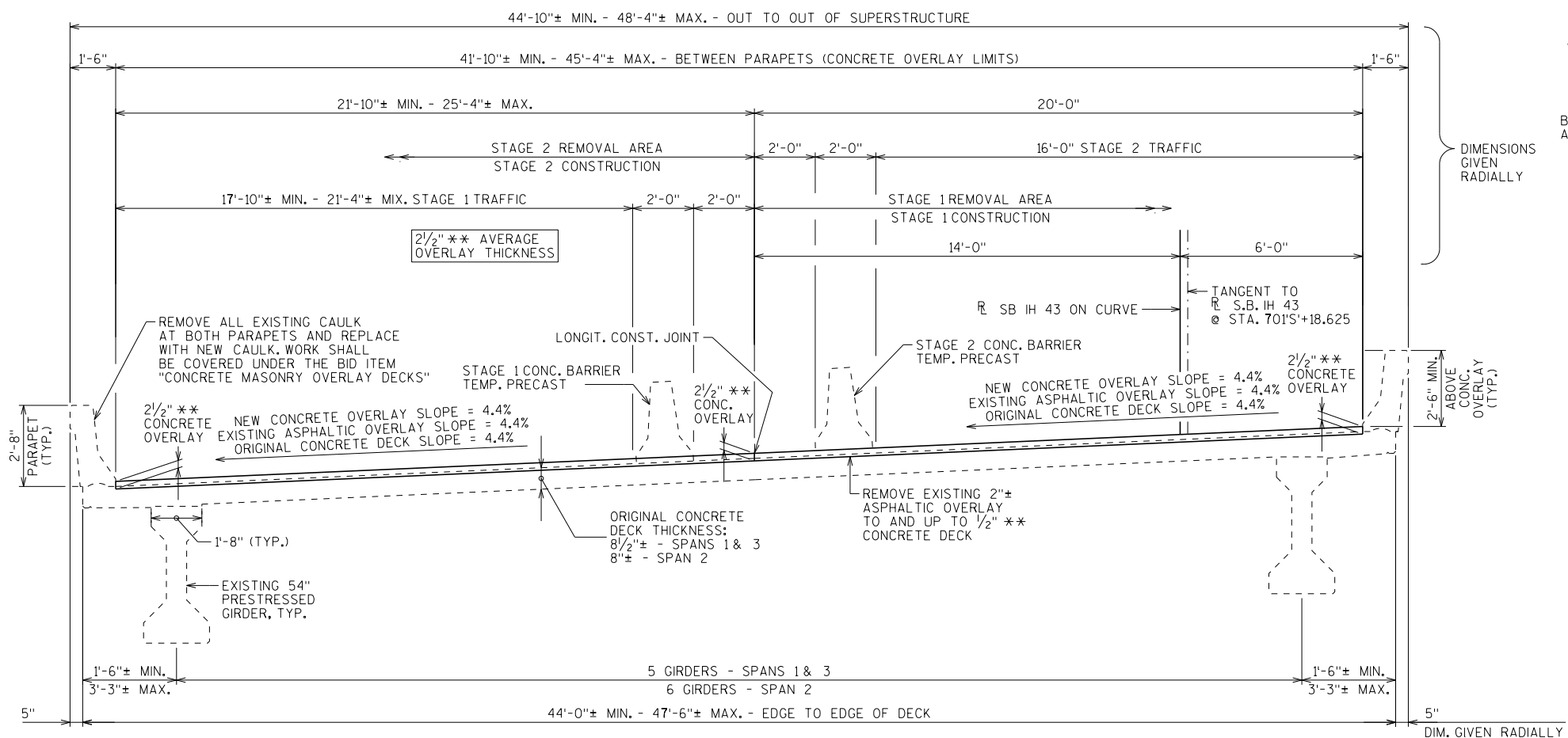
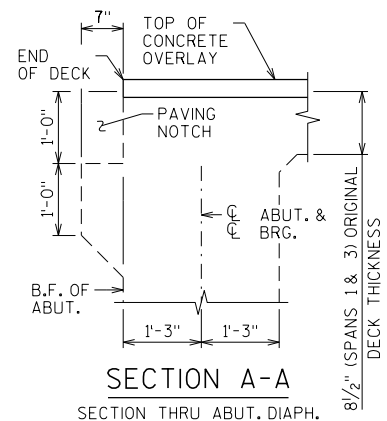
DESIGN SPEC.	
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GENERAL PLAN &
CROSS SECTION

SHEET 1 OF 2



(3-SPAN PRESTRESSED CONCRETE GIRDER, CONCRETE OVERLAY)



CROSS SECTION THRU DECK LOOKING WEST

** THE OVERLAY THICKNESS INCLUDES 1/2"
 THICKNESS OF CONCRETE REMOVAL FROM
 ORIGINAL CONCRETE DECK.

WISCONSIN
VINOD
C.
PATEL
37887
CAROL STREAM,
IL
PROFESSIONAL ENGINEER

Plotel

DATE: 02/03/2017

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE: CONSULTANT:
WILLIAM DREHER, P.E. VINOD PATEL, P.E.
(608) 266-8489 (312) 616-7395

8

8

STATE PROJECT NUMBER

1227-08-73

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	E. ABUT.	W. ABUT.	SUPER.	TOTAL
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	843	843
502.3210	PIGMENTED SURFACE SEALER	SY	11	10	132	153
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	84	84
509.0302	PREPARATION DECKS TYPE 2	SY	-	-	34	34
509.0500	CLEANING DECKS	SY	-	-	843	843
509.1500	CONCRETE SURFACE REPAIR	SF	4	9	61	74
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	1	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	-	-	65	65
509.9010.S.07	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-212	SY	-	-	843	843
509.9050.S	CLEANING PARAPETS	LF	31	29	348	408

BID ITEM "CONCRETE MASONRY OVERLAY DECKS" ALSO INCLUDES CONCRETE FOR:

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR".

THE QUANTITIES OF "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" ARE BASED ON AN INFRARED THERMOGRAPHIC DECK SURVEY REPORT.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS OF EXISTING STRUCTURE MEMBERS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THE EXISTING BITUMINOUS ASPHALTIC OVERLAY SHALL BE REMOVED FROM THE BRIDGE DECK UNDER BID ITEM "REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-212".

AFTER REMOVING EXISTING ASPHALTIC OVERLAY, UP TO 1/2" OF CONCRETE SHALL BE REMOVED FROM ORIGINAL BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", "CONCRETE SURFACE REPAIR", AND "FULL-DEPTH DECK REPAIR" AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.

ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1 INCH DEEP SAW CUT.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 2 1/2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS AS GIVEN ON THE PLANS. IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY AT ABUTMENTS IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

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

CLEAN THE INSIDE FACES AND TOP SURFACE OF THE EXISTING CONCRETE PARAPETS. PARAPET JOINTS SHALL BE CLEANED AND RE-SEALED WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER, INCLUDE IN BID ITEM "CLEANING PARAPETS".

APPLY "PROTECTIVE SURFACE TREATMENT" TO THE EXPOSED DECK SURFACE OF THE NEW CONCRETE OVERLAY BETWEEN PARAPETS.

APPLY "PIGMENTED SURFACE SEALER" ON THE INSIDE AND TOP FACES OF PARAPETS, INCLUDING PARAPETS ON ABUTMENT WINGS.

8

8

NO. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

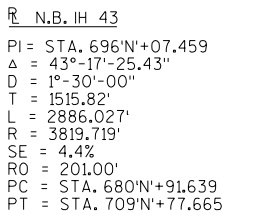
STRUCTURE B-5-212

DRAWN BY YC

PLANS CK'D. VCP

QUANTITIES & NOTES

SHEET 2 OF 2



1. GENERAL PLAN & ELEVATION
2. CROSS SECTION, QUANTITIES & NOTES
3. WINGWALL 2 REPLACEMENT
4. SLOPED FACE PARAPET "B"

 **exp.** U.S. Services Inc.
Milwaukee, WI
BUILDINGS • EARTH & ENVIRONMENT • ENERGY
INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____
CHIEF STRUCTURES DESIGN ENGINEER DATE _____

STRUCTURE B-5-213

IH 43 NB OVER STH 54 EB-STH 57 NB

COUNTY	BROWN	TOWN/CITY/VILLAGE	GREEN BAY
--------	-------	------------------------------	-----------

DESIGN SPEC.	
REHABILITATION	N/A

DESIGNED BY	YC	DESIGN CK'D.	VCP	DRAWN BY	JJG/YC	PLANS CK'D.	VCP
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GENERAL PLAN & ELEVATION	SHEET 1 OF 4

	SCALE
	FILENAME

CHUNYM
2-03-2017, 14:26:27

LIVE LOAD:
DESIGN LOADING: HS20
INVENTORY RATING: HS20
OPERATING RATING: HS34
WISCONSIN STANDARD PERMIT VEHICLE (Wis-SPV): 210 KIPS

CONCRETE MASONRY:	OVERLAY DECKS	f'c = 4,000 P.S.I.
	ALL OTHER	f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60:		fy = 60,000 P.S.I.

<u>IH 43</u> A.D.T. = 50,400 (2036) R.D.S. = 70 MPH	<u>STH 54 EB - STH 57 NB</u> A.D.T. = 20,000 (2036) R.D.S. = 70 MPH
---	---

NORMAL TO STH 54-57 EB
(LOOKING SOUTH)



DATE: 02/03/2017

STRUCTURE DESIGN CONTACTS

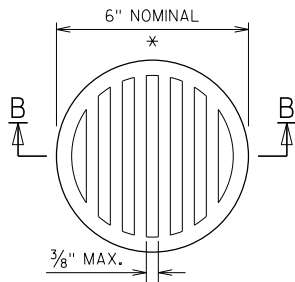
BRIDGE OFFICE: WILLIAM DREHER, P.E.
(608) 266-8489

CONSULTANT: VINOD PATEL, P.E.
(312) 616-7395

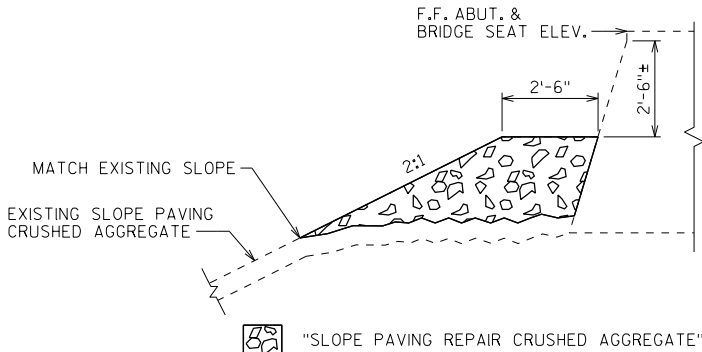
BID ITEM NUMBER	BID ITEMS	UNIT	E. ABUT.	W. ABUT.	SUPER.	TOTAL
203.0200.01	REMOVING OLD STRUCTURE STA. 701N+23.79	LS	-	-	-	1
206.1000.01	EXCAVATION FOR STRUCTURES BRIDGES B-5-213	LS	-	-	-	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	43	-	-	43
502.0100	CONCRETE MASONRY BRIDGES	CY	6	-	-	6
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	1,160	1,160
502.3210	PIGMENTED SURFACE SEALER	SY	12	10	142	164
502.4204	ADHESIVE ANCHORS NO. 4 BAR	EACH	2	-	-	2
502.4206	ADHESIVE ANCHORS NO. 6 BAR	EACH	19	-	-	19
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	920	-	-	920
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	115	115
509.0302	PREPARATION DECKS TYPE 2	SY	-	-	46	46
509.0500	CLEANING DECKS	SY	-	-	1,160	1,160
509.1500	CONCRETE SURFACE REPAIR	SF	4	20	12	36
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	1	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	-	-	89	89
509.9010.S.08	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-213	SY	-	-	1,160	1,160
509.9050.S	CLEANING PARAPETS	LF	20	30	373	423
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	3	-	-	3
604.9010.S	SLOPE PAVING REPAIR CRUSHED AGGREGATE	CY	-	1	-	1
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	43	-	-	43
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	1	-	-	1
	NON-BID ITEMS					
	PREFORMED JOINT FILLER	SIZE	-	-	-	1/2 "

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SCREEN SO SLOTS ARE VERTICAL.

THE RODENT SCREEN SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SCREEN TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SCREEN SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO.10 x 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



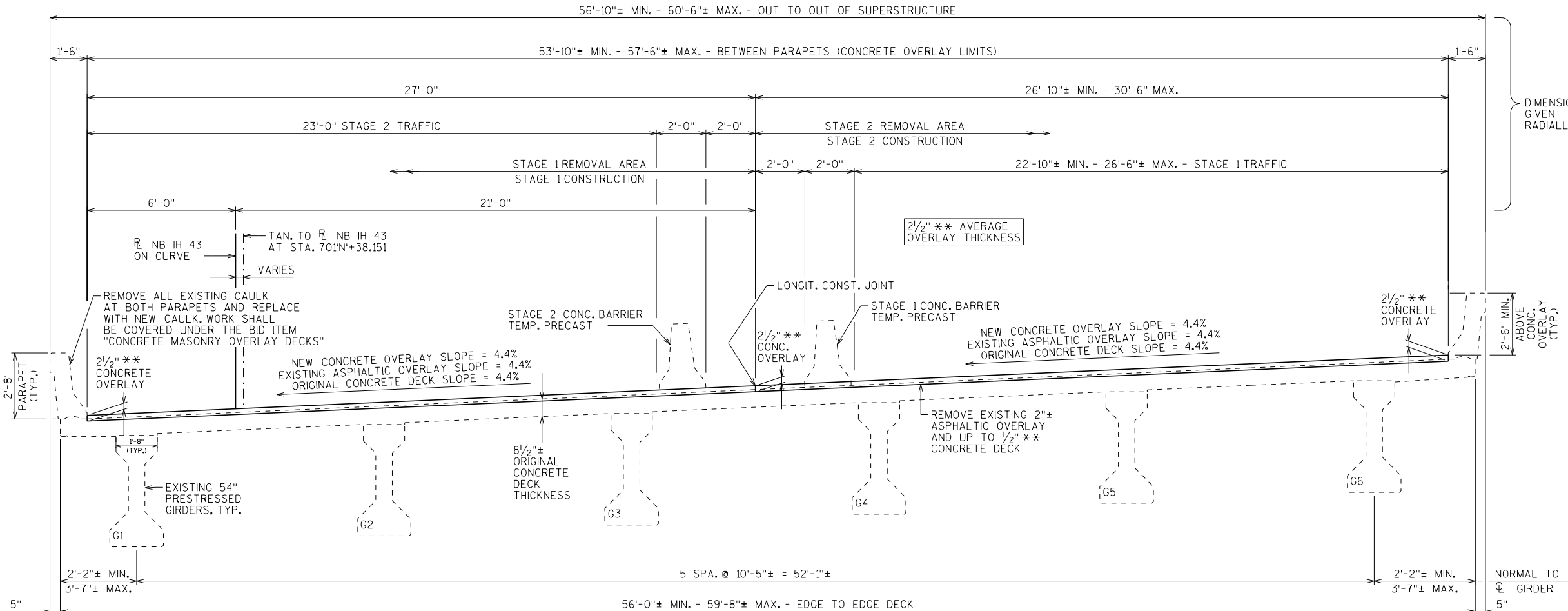
SECTION AT SOUTH END OF WEST ABUTMENT



SLOPE PAVING REPAIR DETAIL



SECTION B-B



** THE OVERLAY THICKNESS INCLUDES 1/2" THICKNESS OF CONCRETE REMOVAL FROM ORIGINAL CONCRETE DECK.

1227-08-73

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS OF EXISTING STRUCTURE MEMBERS SHOWN
ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THE EXISTING BITUMINOUS ASPHALTIC OVERLAY SHALL
BE REMOVED FROM THE BRIDGE DECK UNDER BID ITEM
"REMOVING ASPHALTIC CONCRETE DECK OVERLAY
B-5-213".

AFTER REMOVING EXISTING ASPHALTIC OVERLAY, UP TO 1/2" OF CONCRETE SHALL BE REMOVED FROM ORIGINAL BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", "CONCRETE SURFACE REPAIR", AND "FULL-DEPTH DECK REPAIR" AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.

ALL CONCRETE REMOVAL NOT COVERED WITH A
CONCRETE OVERLAY SHALL BE DEFINED BY A 1 INCH
DEEP SAW CUT.

PROFILE GRAD LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 2 1/2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS AS GIVEN ON THE PLANS. IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

THE EXISTING GROUND LINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE ABUTMENT.

AT THE BACKFACE OF ABUTMENT, ALL VOLUME WHICH CANNOT BE PLACED BEFORE WINGWALL CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

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

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

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

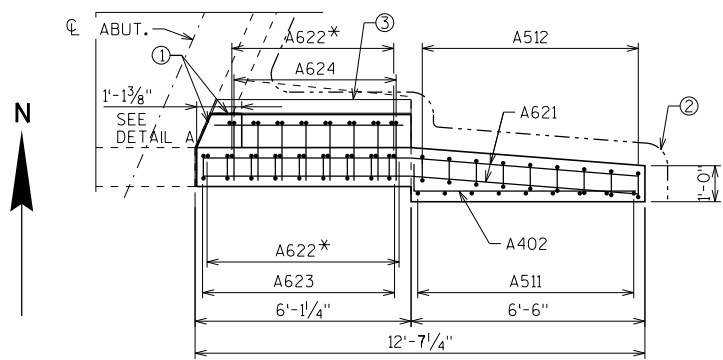
CLEAN THE INSIDE FACES AND TOP SURFACE OF THE EXISTING CONCRETE PARAPETS. PARAPET JOINTS SHALL BE CLEANED AND RE-SEALED WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. INCLUDE IN BID ITEM "CLEANING PARAPETS".

APPLY "PROTECTIVE SURFACE TREATMENT" TO THE EXPOSED DECK SURFACE OF THE NEW CONCRETE OVERLAY BETWEEN PARAPETS.

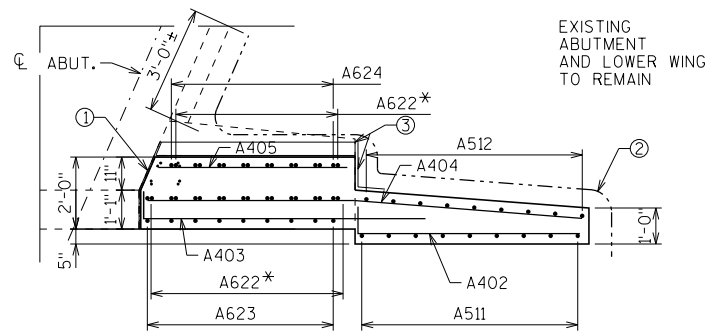
APPLY "PIGMENTED SURFACE SEALER" ON THE INSIDE AND TOP FACES OF PARAPETS, INCLUDING PARAPETS ON ABUTMENT WINGS.

INSTALL RODENT SCREEN(S) AT THE EXPOSED END(S)
OF PIPE UNDERDRAIN.

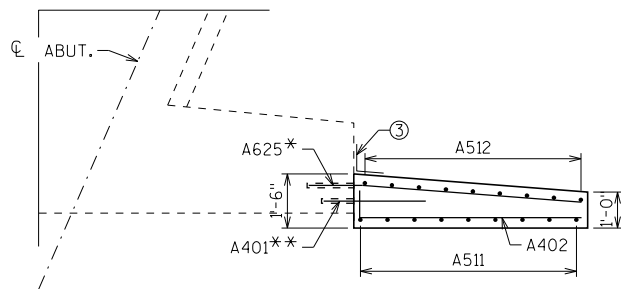
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-213			
		DRAWN BY YC	PLANS CK'D. VCP
CROSS SECTION, QUANTITIES & NOTES		SHEET 2 OF 4	



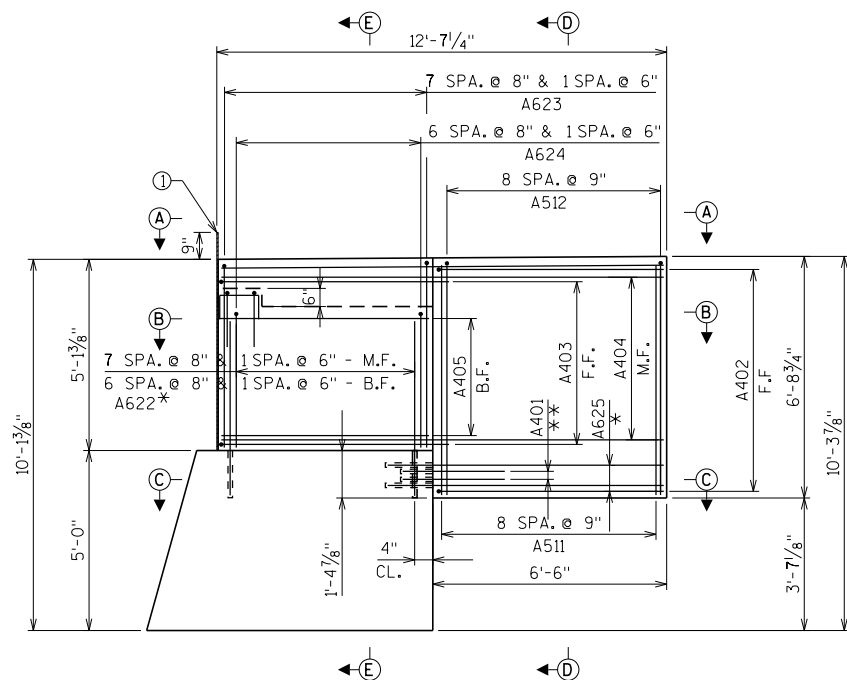
SECTION A-A



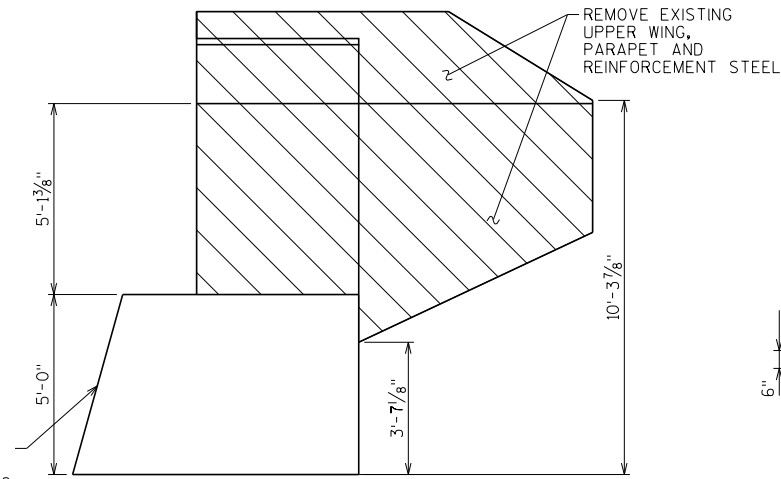
SECTION B-B



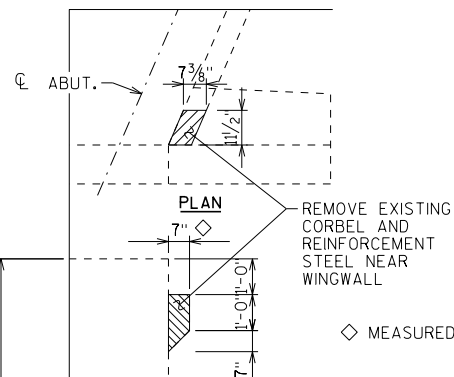
SECTION C-C



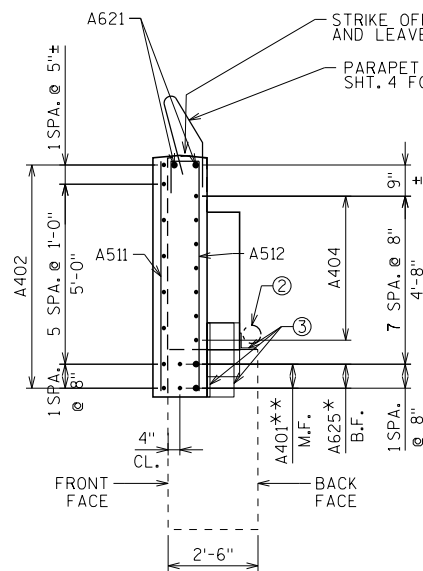
SECTION D-D



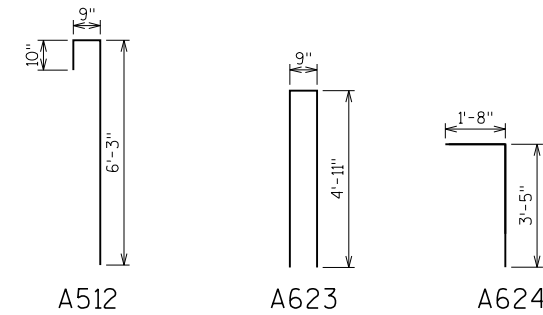
EXISTING WING REMOVAL



PARTIAL CORBEL REMOVAL



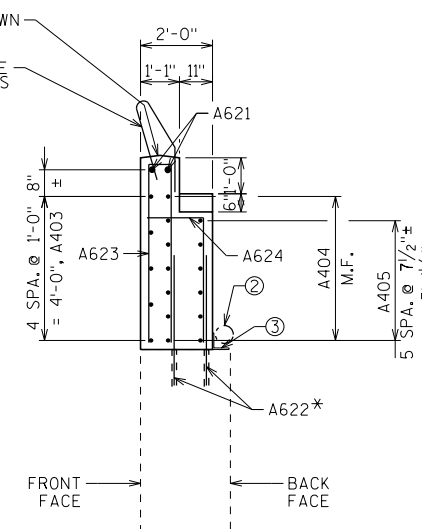
SECTION E-E



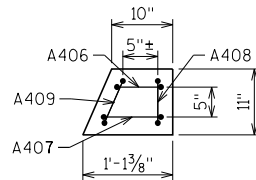
A512

A623

A624



DETAIL A



BILL OF BARS

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	LOCATION
A401	X	2	2'-10"		HORIZONTAL ANCHOR BARS, BOTTOM, M.F.
A402	X	8	6'-10"	X	HORIZONTAL, F.F.
A403	X	5	8'-7"	X	HORIZONTAL, F.F.
A404	X	7	12'-2"	X	HORIZONTAL, M.F.
A405	X	6	5'-6"		HORIZONTAL, B.F.
A406	X	1	3'-5"	X	U BAR, PAVING NOTCH
A407	X	1	3'-6"	X	U BAR, PAVING NOTCH
A408	X	1	3'-5"	X	U BAR, PAVING NOTCH
A409	X	1	3'-5"	X	U BAR, PAVING NOTCH
A511	X	9	6'-3"		VERTICAL, F.F.
A512	X	9	7'-7"	X	VERTICAL, B.F.
A621	X	2	12'-2"	X	HORIZONTAL, TOP OF WING
A622	X	17	3'-10"		VERTICAL ANCHOR BARS, M.F. & B.F.
A623	X	9	10'-3"	X	VERTICAL U BARS, F.F.
A624	X	8	4'-11"	X	VERTICAL L BARS, B.F.
A625	X	2	7'-7"	X	HORIZONTAL ANCHOR BARS, BOTTOM, B.F.

THE FIRST DIGIT OF A THREE DIGIT MARK SIGNIFIES THE BAR SIZE.
ALL BAR DIMENSIONS ARE OUT TO OUT OF BAR.

NOTES:

- 1/2" FILLER INCLUDED IN WING LENGTH, SEAL ALL HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.
- PIPE UNDERDRAIN WRAPPED 6 INCH, SLOPE 0.5% MIN. TO DRAIN.
- 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- PROVIDE 2" CLEAR COVER UNLESS NOTED OTHERWISE.

* ADHESIVE ANCHORS NO. 6 BAR. EMBED 15" INTO CONCRETE.

** ADHESIVE ANCHORS NO. 4 BAR. EMBED 10" INTO CONCRETE.

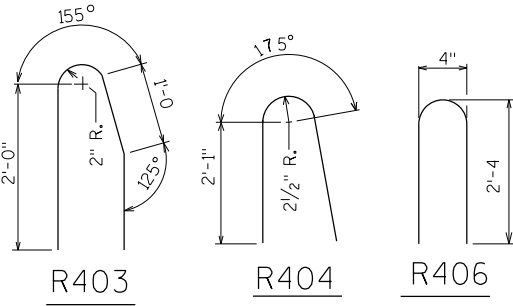
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-213			
DRAWN BY JJC		PLANS CK'D. YC	
WINGWALL 2 REPLACEMENT		SHEET 3 OF 4	

BILL OF BARS

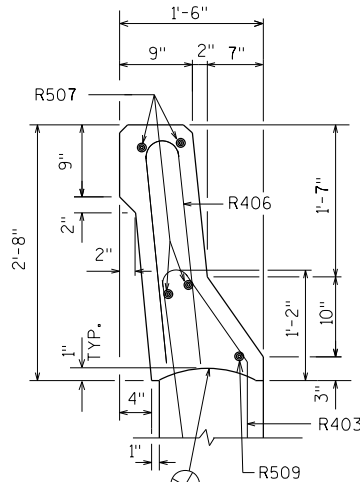
FOR ABUTMENT PARAPETS

THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE. EPOXY COAT ALL PRAPET REINF.

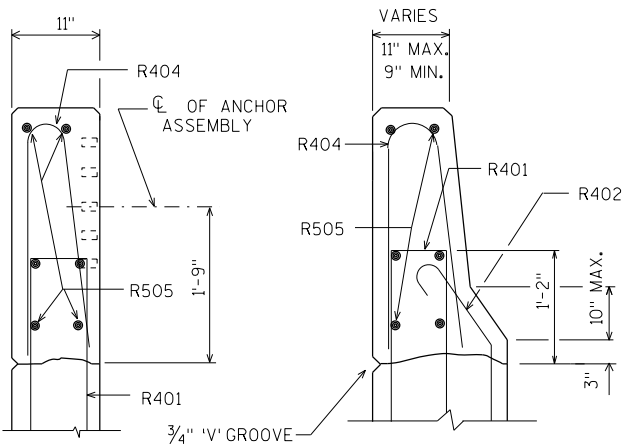
BAR MARK	NO. REQ'D	E. ABUT.	W. ABUT.	LENGTH	BENT	LOCATION
R401	15	-	-	4'-9"	X	WING 2 STIRRUPS
R402	4	-	-	3'-1"	X	WING 2
R403	9	-	-	4'-7"	X	WING 2 STIRRUPS
R404	15	-	-	4'-9"	X	WING 2
R505	6	-	-	6'-2"	-	WING 2
R406	9	-	-	4'-10"	X	WING 2
R507	4	-	-	7'-10"	-	WING 2
-	-	-	-	-	-	-
R509	1	-	-	12'-2"	X	WING 2
-	-	-	-	-	-	-
-	-	-	-	-	-	-



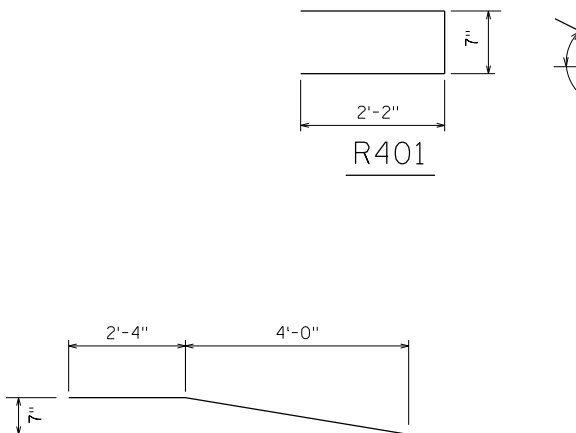
SECTION C



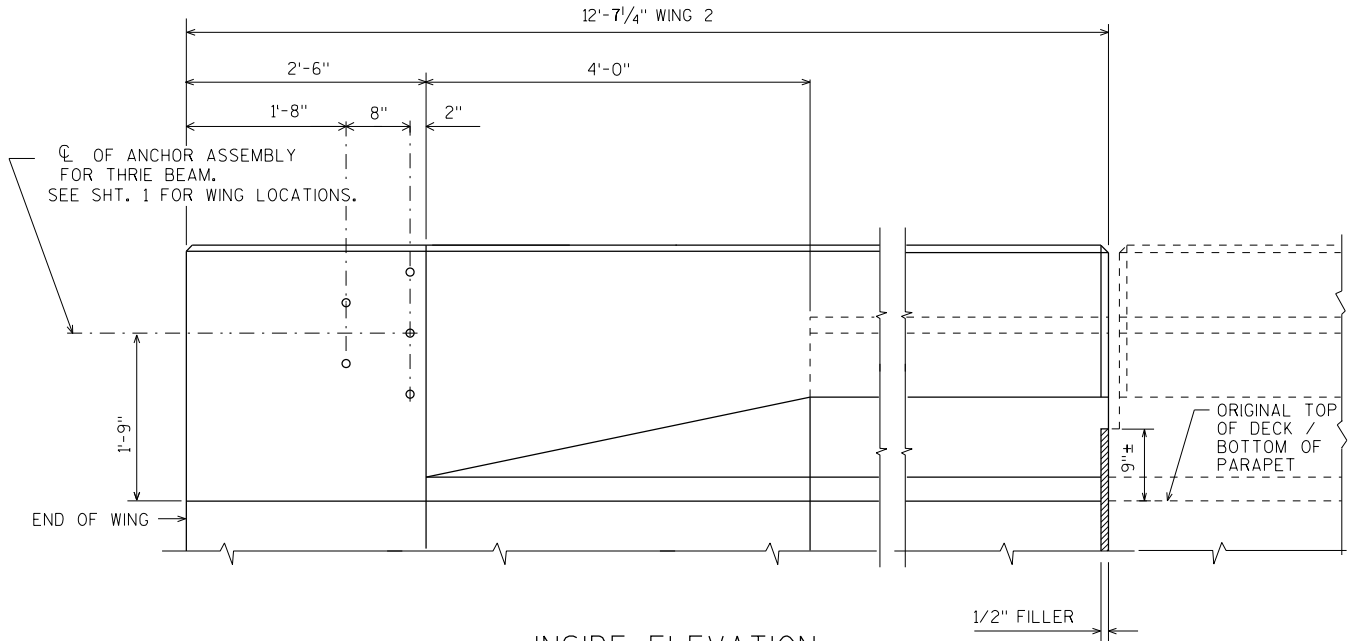
SECTION B



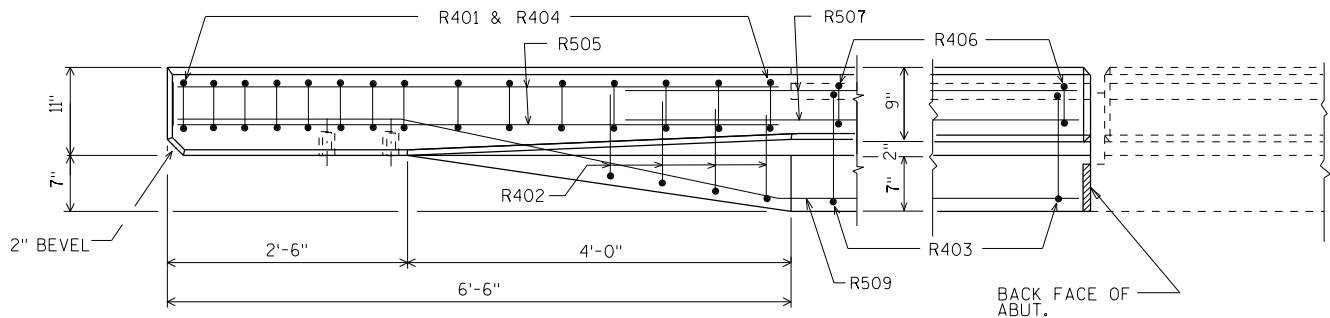
SECTION A



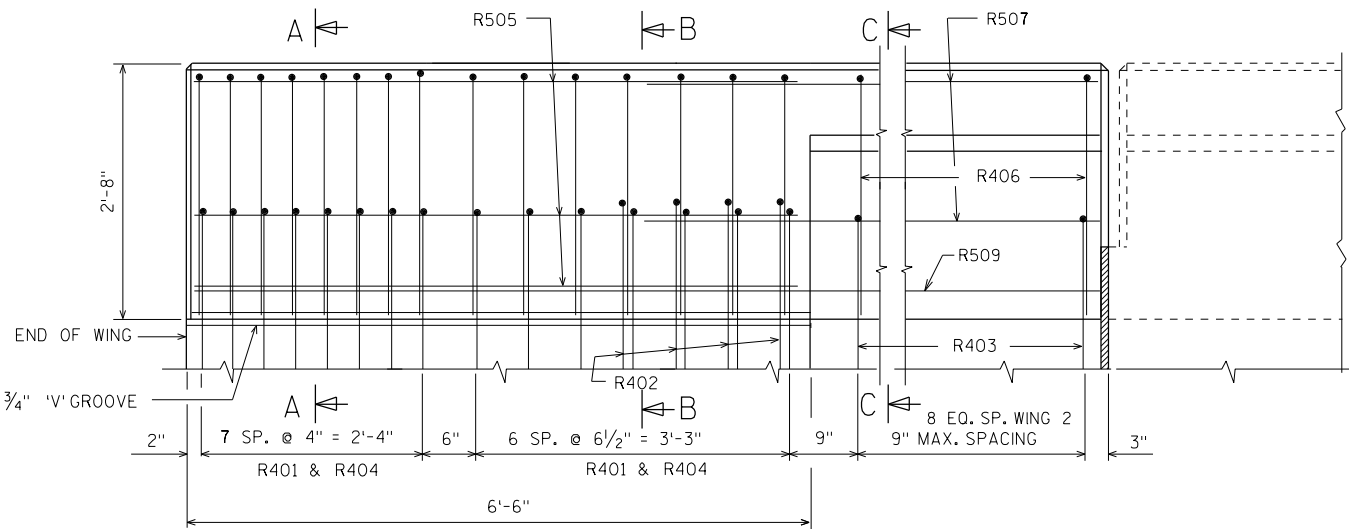
INSIDE ELEVATION



PLAN

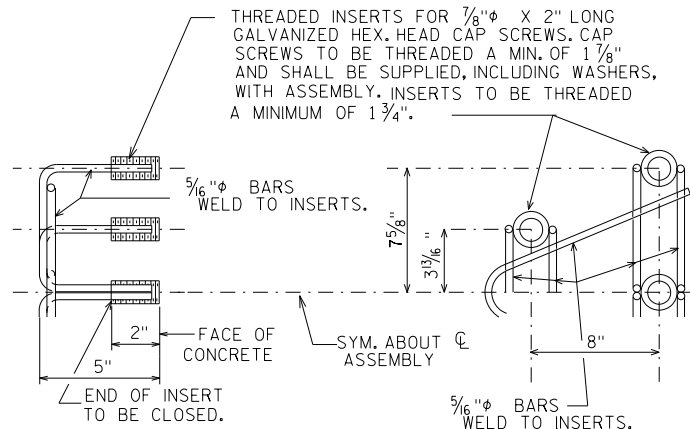


OUTSIDE ELEVATION



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX. HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.



CONST. JOINT - STRIKE OFF AS SHOWN.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-213			
DRAWN BY JJC		PLANS CK'D. YC	
SLOPED FACE PARAPET "B"		SHEET 4 OF 4	

PI = STA. 711'W'+07.526
 Δ = 120°-05'-23.41"
 D = 6°-30'-00"
 T = 1529.525'
 L = 1847.536'
 R = 881.474'
 SE = 6.0%
 RO = 150'
 PC = STA. 695'W'+78.002
 PT = STA. 714'W'+25.538

CONCRETE MASONRY:	OVERLAY DECKS	f'c = 4,000 P.S.I.
	ALL OTHER	f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60:		fy = 60,000 P.S.I.

<u>RAMP IH 43 NB - WB STH 54</u>	<u>STH 54 EB - STH 57 NB</u>
A.D.T. = 40,400 (2036)	A.D.T. = 20,000 (2036)
R.D.S. = 70 MPH	R.D.S. = 70 MPH

1. GENERAL PLAN & ELEVATION
2. CROSS SECTION, QUANTITIES & NOTES
3. JOINT REPAIR
4. EXPANSION DEVICE
5. JOINT REPAIR - BILL OF BARS
6. COVER PLATE DETAILS



▲ PARAPET REPLACEMENT AREA.
SEE SHEET __ FOR DETAILS.



** DIMENSION IS TAKEN PARALLEL TO $\mathbb{C}$ GIRDERS.



DATE: 02/03/2017

BRIDGE OFFICE: WILLIAM DREHER, P.E.
(608) 266-8489

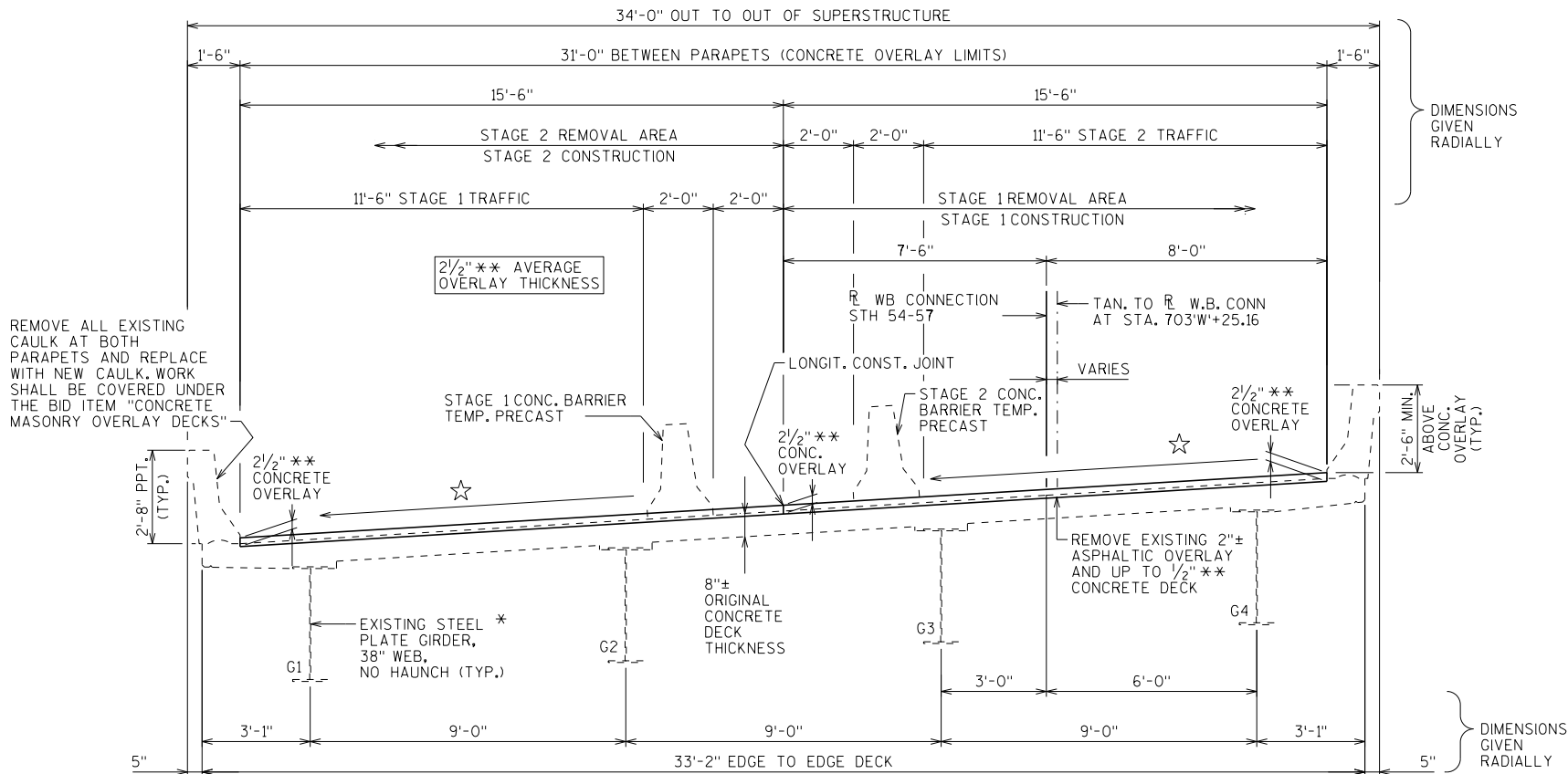
CONSULTANT: VINOD PATEL, P.E.
(312) 616-7395

NO.	DATE	REVISION	BY
 exp U.S. Services Inc. Milwaukee, WI BUILDINGS • EARTH & ENVIRONMENT • ENERGY INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED _____		_____	
CHIEF STRUCTURES DESIGN ENGINEER		DATE	
STRUCTURE B-5-214			
RAMP IH 54 NB-PTH 54 OVER PTH 54 EB-PTH 57 NB			
COUNTY BROWN		TOWN/CITY/VILLAGE GREEN BAY	
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY	YC	DESIGN CK'D.	VCP
DRAWN BY	JUG/YC	PLANS CK'D.	VCP
GENERAL PLAN & ELEVATION		SHEET 1 OF 6	

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	E. ABUT.	W. ABUT.	SUPER.	TOTAL
502.3100.05	EXPANSION DEVICE B-5-214	LS	-	-	-	1
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	572	572
502.3210	PIGMENTED SURFACE SEALER	SY	9	9	125	143
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	42	-	-	42
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,330	-	-	1,330
505.0904	BAR COUPLERS NO. 4	EACH	4	-	-	4
505.0905	BAR COUPLERS NO. 5	EACH	3	-	-	3
505.0906	BAR COUPLERS NO. 6	EACH	16	-	-	16
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	57	57
509.0302	PREPARATION DECKS TYPE 2	SY	-	-	23	23
509.0500	CLEANING DECKS	SY	-	-	557	557
509.1000	JOINT REPAIR	SY	-	-	18	18
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	1	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	-	-	51	51
509.9010.S.09	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-214	SY	-	-	557	557
509.9050.S	CLEANING PARAPETS	LF	27	25	323	375
517.3000.S.05	STRUCTURE OVERCOATING CLEANING AND PRIMING B-5-214	LS	-	-	-	1
517.4000.S.05	CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-5-214	LS	-	-	-	1
	NON-BID ITEMS					
	BRIDGE SEAT PROTECTION					

BID ITEM "CONCRETE MASONRY OVERLAY DECKS" ALSO INCLUDES CONCRETE FOR:
"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", "FULL-DEPTH DECK REPAIR", AND "JOINT REPAIR".
THE QUANTITIES OF "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" ARE
BASED ON AN INFRARED THERMOGRAPHIC DECK SURVEY REPORT.



CROSS SECTION THRU DECK LOOKING WEST

- ☆ NEW CONCRETE OVERLAY SLOPE = 6.0%
EXISTING ASPHALTIC OVERLAY SLOPE = 6.0%
ORIGINAL CONCRETE DECK SLOPE = 6.0%
- * WEATHERING STEEL
- ** THE OVERLAY THICKNESS INCLUDES 1/2" THICKNESS OF CONCRETE REMOVAL FROM ORIGINAL CONCRETE DECK.

STATE PROJECT NUMBER

1227-08-73

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS OF EXISTING STRUCTURE MEMBERS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THE EXISTING BITUMINOUS ASPHALTIC OVERLAY SHALL BE REMOVED FROM THE BRIDGE DECK UNDER BID ITEM "REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-214".

AFTER REMOVING EXISTING ASPHALTIC OVERLAY, UP TO 1/2" OF CONCRETE SHALL BE REMOVED FROM ORIGINAL BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.

ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1 INCH DEEP SAW CUT.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 2 1/2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS AS GIVEN ON THE PLANS. IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY OR JOINT REPAIRS AT ABUTMENTS IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

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

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

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

APPLY BRIDGE SEAT PROTECTION, AS PER SECTION 502.3.12 OF THE STANDARD SPECIFICATIONS, TO THE TOP SURFACE OF EAST ABUTMENT BELOW EXPANSION DEVICE. POWER WASH AND ADEQUATELY DRY SURFACES BEFORE APPLICATION. WORK TO BE INCIDENTAL TO "JOINT REPAIR".

CLEAN AND PAINT THE END 6 FEET OF ALL STRUCTURAL WEATHERING STEEL AT BOTH ABUTMENTS, EXCEPT THE EXTERIOR OF THE EXTERIOR GIRDERS. USE A FEDERAL STANDARD COLOR NO. 20059 (BROWN) FOR THE TOP COAT.

CLEAN AND PAINT ALL BEARINGS AT EAST ABUTMENT. CLEANING AND PAINTING OF BEARINGS IS INCLUDED WITH "STRUCTURE OVERCOATING CLEANING AND PRIMING B-5-214".

CLEAN THE INSIDE FACES AND TOP SURFACE OF THE EXISTING CONCRETE PARAPETS. PARAPET JOINTS SHALL BE CLEANED AND RE-SEALED WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. INCLUDE IN BID ITEM "CLEANING PARAPETS".

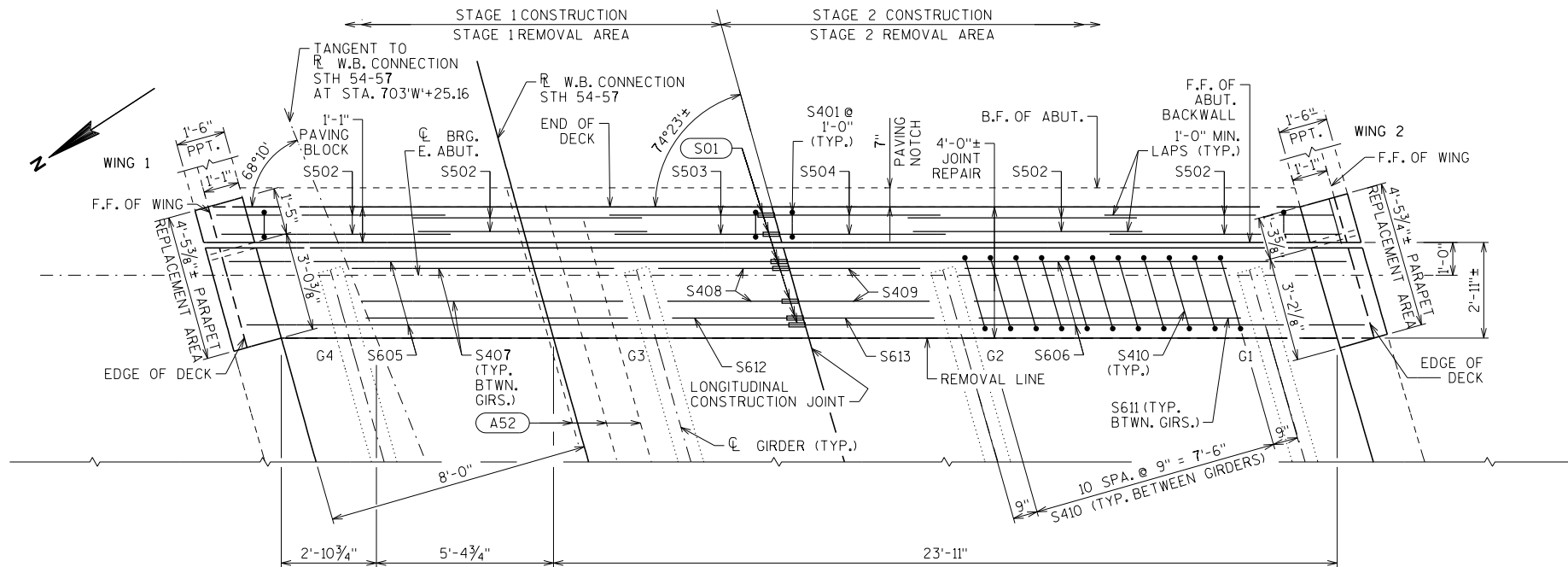
APPLY "PROTECTIVE SURFACE TREATMENT" TO THE EXPOSED DECK SURFACE OF THE NEW CONCRETE OVERLAY BETWEEN PARAPETS AND EXPOSED TOP SURFACE OF JOINT REPAIR.

APPLY "PIGMENTED SURFACE SEALER" ON THE INSIDE AND TOP FACES OF PARAPETS, INCLUDING PARAPETS ON ABUTMENT WINGS.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-214			
		DRAWN BY YC	PLANS CK'D. VCP
CROSS SECTION, QUANTITIES & NOTES			SHEET 2 OF 6

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EAST ABUTMENT "JOINT REPAIR" PLAN

STATE PROJECT NUMBER

1227-08-73

NOTES

ALL REMOVAL LINES SHALL BE DEFINED BY A 1" DEEP SAW-CUT.

REBUILD NEW PARAPET, WING AND DECK AREAS TO MATCH THE EXISTING PARAPET, WING AND DECK. SEE SHEET 5 FOR NEW PARAPET DETAILS.

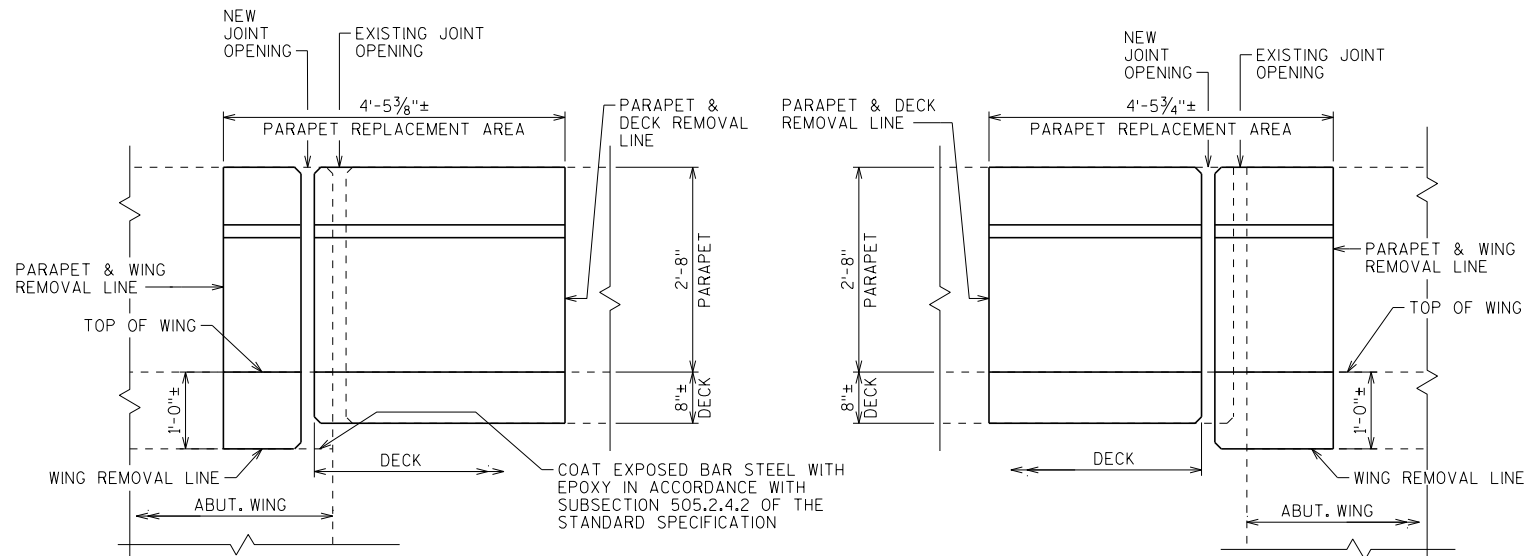
PARAPET REPLACEMENT SHALL BE INCLUDED UNDER THE BID ITEM "JOINT REPAIR".

(A52) SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.

THE NEW ADDITIONAL HORIZONTAL REINFORCEMENT REQUIRED IN THE PARAPETS SHALL BE TIED TO THE EXISTING HORIZONTAL REINFORCEMENT.

★ IF EXISTING BARS ARE SEVERELY CORRODED OR DAMAGED DURING CONCRETE REMOVAL, REPLACE WITH BARS S525 ANCHORED WITH ADHESIVE ANCHORS NO. 5 BAR, EMBED BARS 1'-0" MIN. INTO EXISTING CONC. PLACE 4" CL. MIN. OF VERT. CONC. FACE.

(S01) BAR COUPLERS USED. BAR LENGTH COMPUTED TO CL OF LONGIT. JOINT & SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURERS' RECOMMENDATIONS.

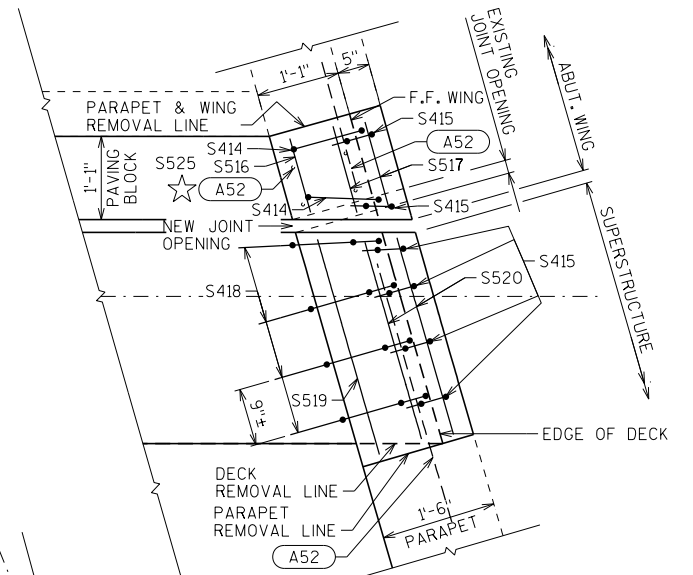


ELEVATION OF NEW WING CORNER 1

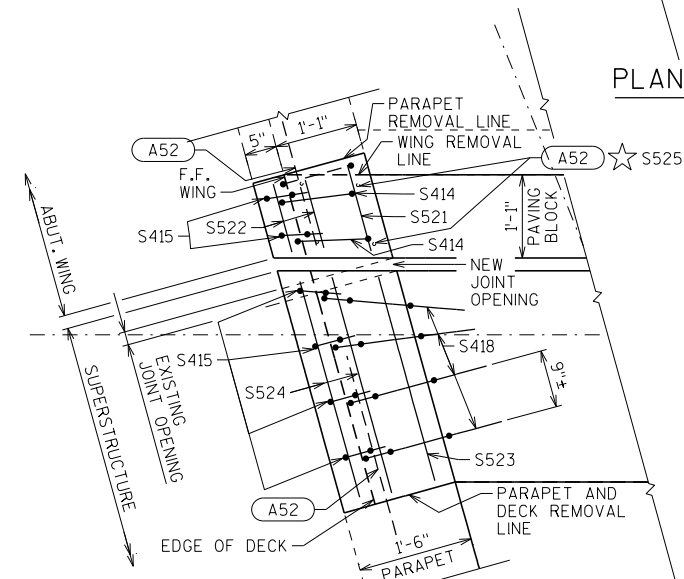
SHOWING NEW CONCRETE AREAS FOR "JOINT REPAIR" (LOOKING AT OUTSIDE FACE OF PARAPET)

ELEVATION OF NEW WING CORNER 2

SHOWING NEW CONCRETE AREAS FOR "JOINT REPAIR" (LOOKING AT OUTSIDE FACE OF PARAPET)



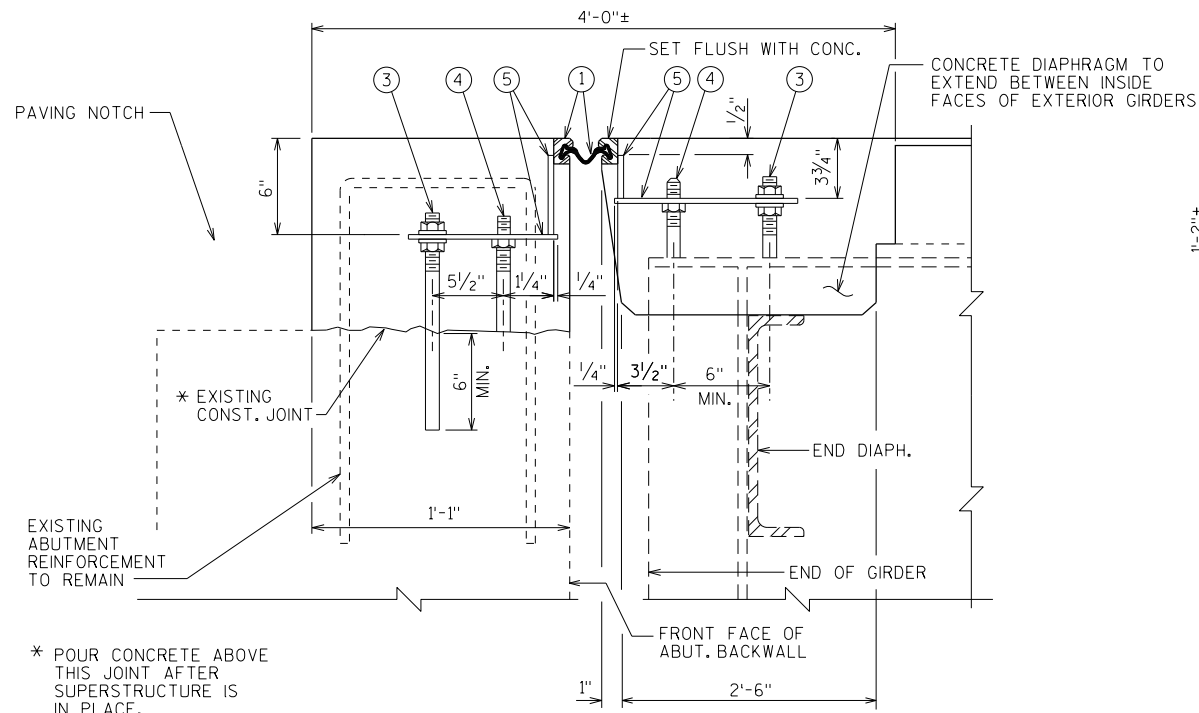
PLAN DETAIL OF PARAPET REPLACEMENT AREA AT WING CORNER 2



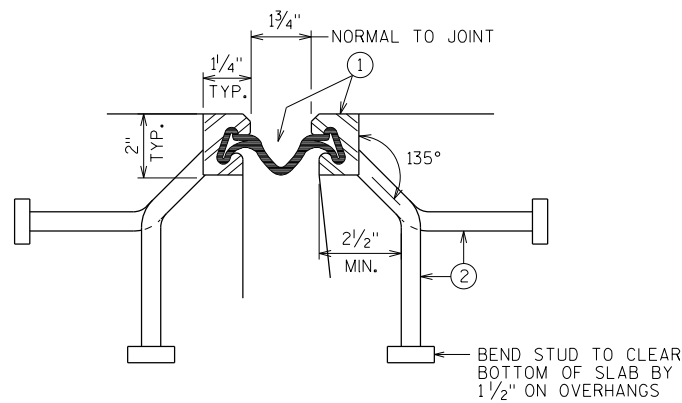
PLAN DETAIL OF PARAPET REPLACEMENT AREA AT WING CORNER 1

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-214			
DRAWN BY JJC		PLANS CK'D. YC	
JOINT REPAIR		SHEET 3 OF 6	

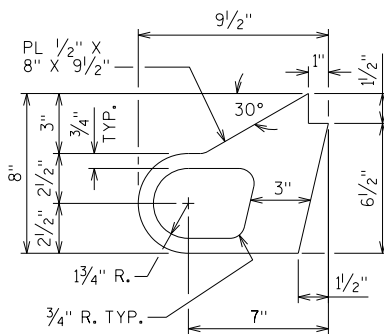
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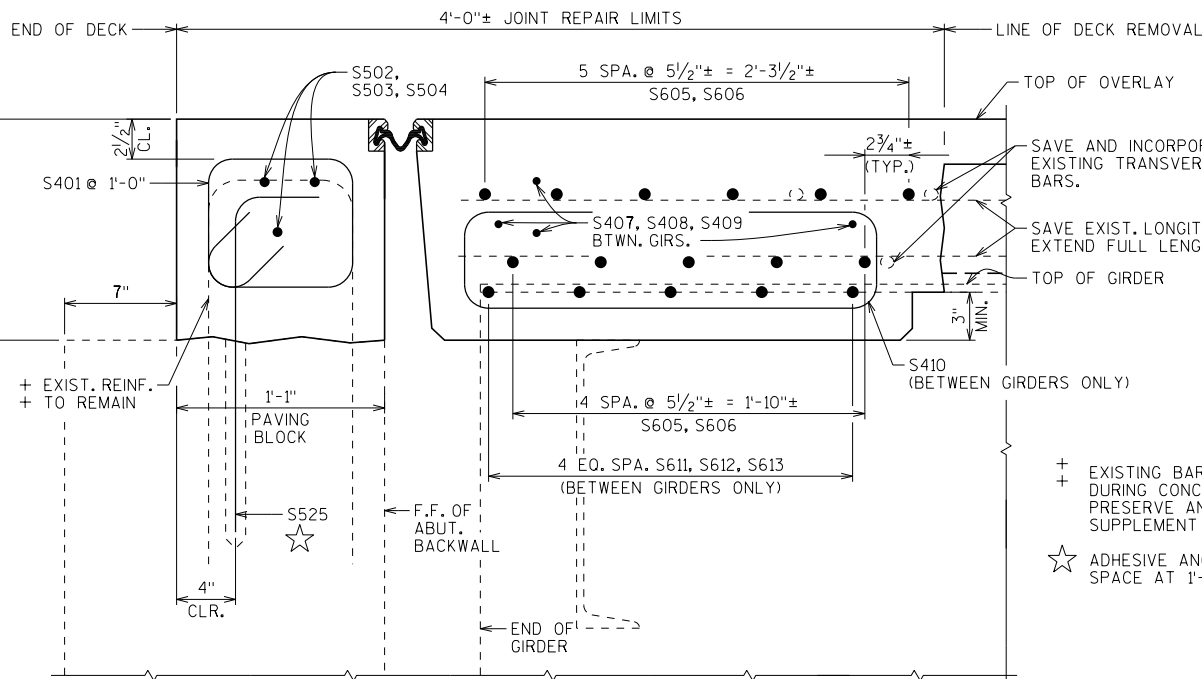
SECTION THRU JOINT AT E. ABUTMENT
NORMAL TO ϕ SUBSTRUCTURE



SECTION THRU JOINT
EXTERIOR GIRDER TO EDGE OF DECK AND AT PARAPETS, MEDIANS AND SIDEWALKS



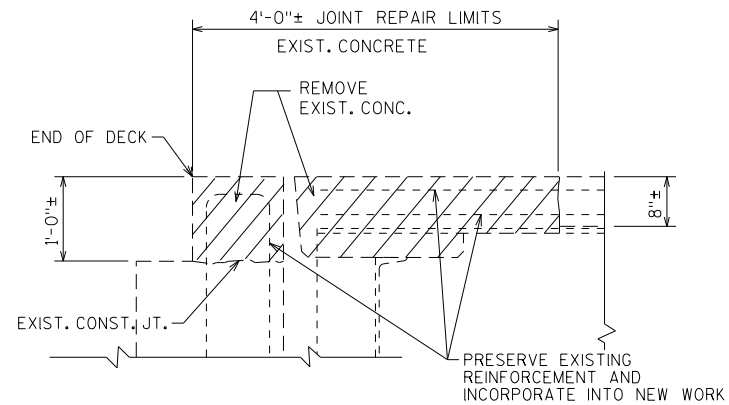
ALTERNATE STRIP SEAL ANCHOR



SECTION THRU JOINT AT E. ABUTMENT
NORMAL TO ϕ SUBSTRUCTURE
SHOWING REINFORCEMENT

LEGEND

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



JOINT REPAIR - REMOVAL
SECTION THRU EXISTING EXPANSION JOINT
AT E. ABUTMENT
NORMAL TO ϕ SUBSTRUCTURE

NOTES

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

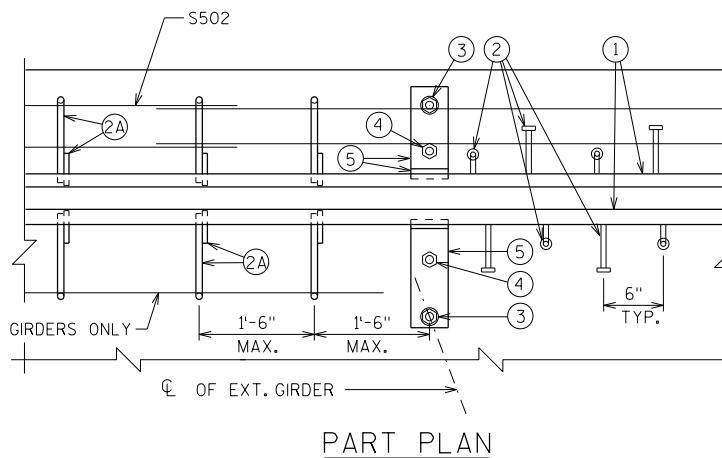
AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST AND SWEEP.

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

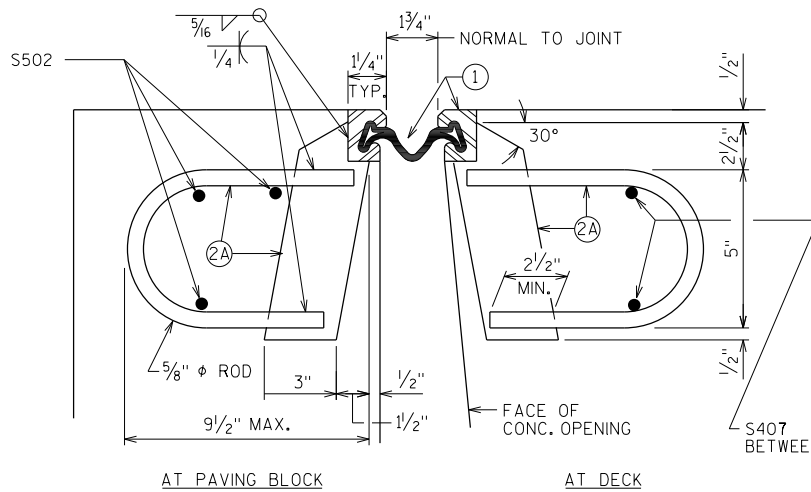
SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

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

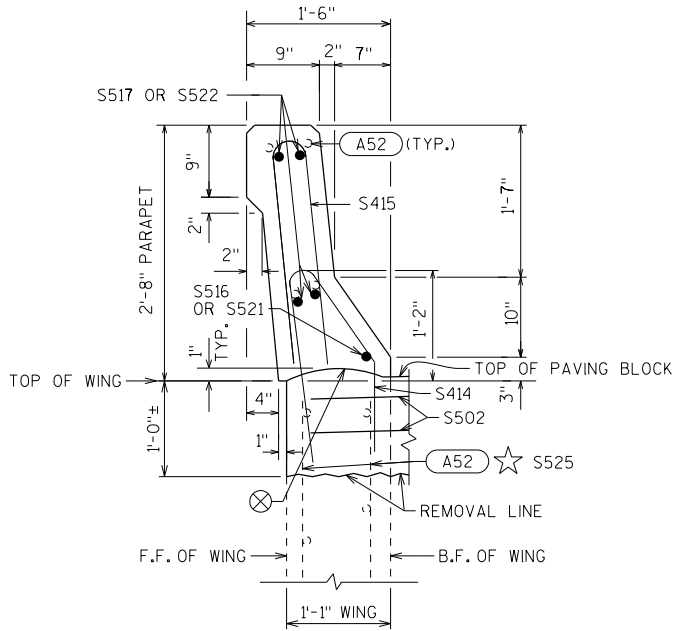
STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE B-5-214".



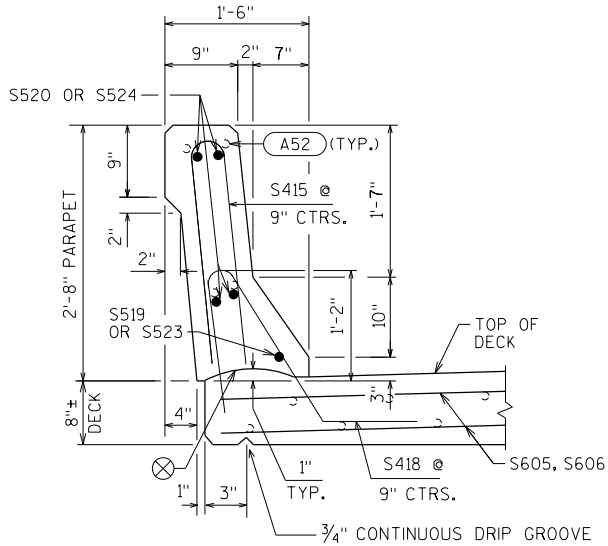
PART PLAN



SECTION THRU JOINT
ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS.



NEW SECTION THRU PARAPET ON WING



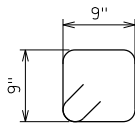
NEW SECTION THRU PARAPET ON DECK

⊗ CONST. JOINT - STRIKE OFF AS SHOWN.

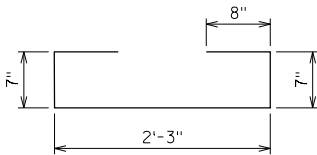
A52 SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.

THE NEW ADDITIONAL HORIZONTAL REINFORCEMENT REQUIRED IN THE PARAPETS SHALL BE TIED TO THE EXISTING HORIZONTAL REINFORCEMENT.

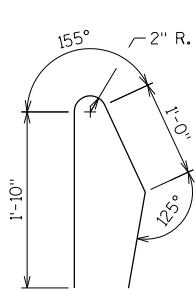
☆ IF EXISTING BARS ARE SEVERELY CORRODED OR DAMAGED DURING CONCRETE REMOVAL, REPLACE WITH BARS S525 ANCHORED WITH ADHESIVE ANCHORS NO. 5 BAR, EMBED BARS 1'-0" MIN. INTO EXISTING CONC. PLACE 4" CL. MIN. OF VERT. CONC. FACE.



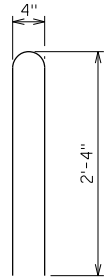
S401



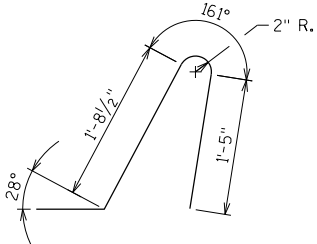
S410



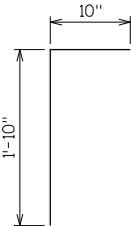
S414



S415



S418



S525

BILL OF BARS

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
BAR DIMENSIONS ARE OUT TO OUT OF BAR.

BAR MARK	COAT	NO. REQ'D		LENGTH	BENT	BAR SERIES	LOCATION
		E. ABUT.	W. ABUT.				
S401	X	34	-	3'-6"	X		PAVING BLOCK - VERT. - STIRRUP - AT STAGE 1 & 2 CONST.
S502	X	12	-	7'-0"			PAVING BLOCK - HORIZ. - AT STAGE 1 & 2 CONST.
S503	X	3	-	5'-1"			PAVING BLOCK - HORIZ. - AT STAGE 1 CONST.
S504	X	3	-	5'-1"			PAVING BLOCK - HORIZ. - AT STAGE 2 CONST.
S605	X	11	-	17'-1"			DECK - HORIZ. - TRANS. - TOP & BOT. - AT STAGE 1 CONST.
S606	X	11	-	17'-1"			DECK - HORIZ. - TRANS. - TOP & BOT. - AT STAGE 2 CONST.
S407	X	8	-	8'-0"			DECK - HORIZ. - TRANS. - BTWN. GIRS. - AT STAGE 1 & 2 CONST.
S408	X	4	-	4'-0"			DECK - HORIZ. - TRANS. - BTWN. G2 & G3 - AT STAGE 1 CONST.
S409	X	4	-	4'-0"			DECK - HORIZ. - TRANS. - BTWN. G2 & G3 - AT STAGE 2 CONST.
S410	X	33	-	4'-5"	X		DECK/CONC. DIAPH. - VERT. - BTWN. GIRS. - AT STAGE 1 & 2 CONST.
S611	X	10	-	8'-0"			CONC. DIAPH. - BOT. - HORIZ. - TRANS. - BTWN. GIRS. - AT STAGE 1 & 2 CONST.
S612	X	5	-	4'-0"			CONC. DIAPH. - BOT. - HORIZ. - TRANS. - BTWN. G2 & G3 - AT STAGE 1 CONST.
S613	X	5	-	4'-0"			CONC. DIAPH. - BOT. - HORIZ. - TRANS. - BTWN. G2 & G3 - AT STAGE 2 CONST.
S414	X	4	-	4'-3"	X		WING & PARAPET - VERT. - TRANS. - AT WING CORNERS 1 & 2
S415	X	12	-	4'-10"	X		PARAPET - VERT. - TRANS. - ABOVE DECK AND WINGS - AT WING CORNERS 1 & 2
S516	X	1	-	1'-0"			WING PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 2
S517	X	4	-	1'-2"			WING PARAPET - HORIZ. - LONGIT. - AT WING CORNER 2
S418	X	7	-	4'-3"	X		DECK & PARAPET - VERT. - TRANS. - AT WING CORNERS 1 & 2
S519	X	1	-	2'-11"			DECK PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 2
S520	X	4	-	2'-8"			DECK PARAPET - HORIZ. - LONGIT. - AT WING CORNER 2
S521	X	1	-	1'-2"			WING PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 1
S522	X	4	-	0'-11"			WING PARAPET - HORIZ. - LONGIT. - AT WING CORNER 1
S523	X	1	-	2'-9"			DECK PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 1
S524	X	4	-	2'-11"			DECK PARAPET - HORIZ. - LONGIT. - AT WING CORNER 1
S525	X	42	-	2'-7"	X		PAVING BLOCK & ENDS OF ABUT. BACKWALL - VERT. - DOWEL - AT STAGE 1 & 2 CONST.
- - -			-				

* BAR COUPLERS USED, BAR LENGTH COMPUTED UP TO THE LONGIT. CONST. JOINT AND SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURERS' RECOMMENDATIONS.
** ADHESIVE ANCHORS NO. 5 BAR.

STATE PROJECT NUMBER

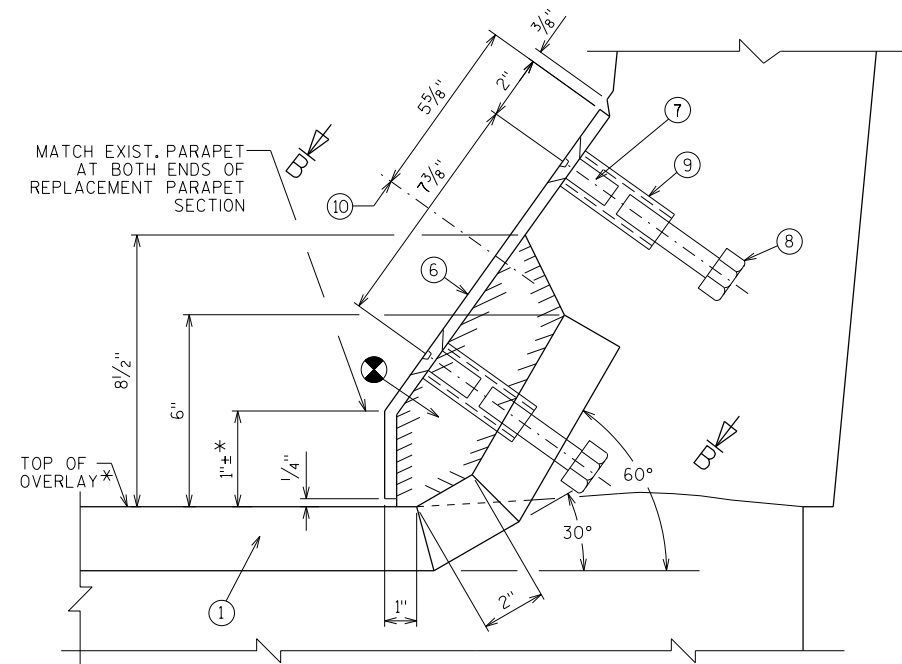
1227-08-73

UNCOATED: 0 LBS
COATED: 1330 LBS

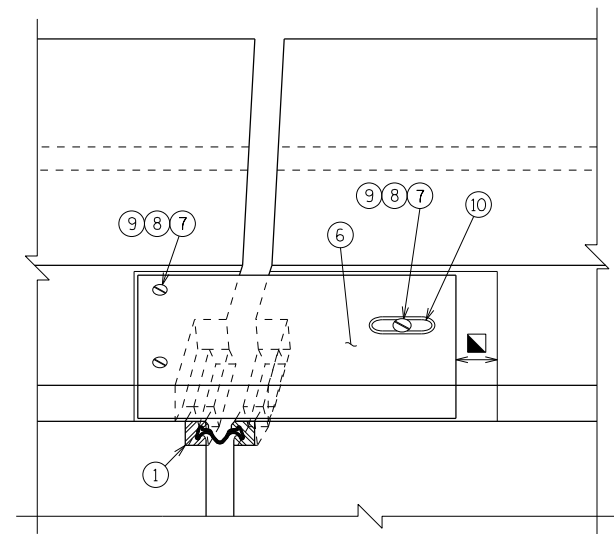
E. ABUT. 0 LBS
W. ABUT. 0 LBS

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-214			
DRAWN BY JJC		PLANS CK'D. YC	
JOINT REPAIR - BILL OF BARS		SHEET 5 OF 6	

- (1) NEOPRENE STRIP SEAL (4 - INCH) AND STEEL EXTRUSIONS.
- (2) STUDS $\frac{5}{8}$ " ϕ X $6\frac{3}{8}$ " LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
- (6) GALVANIZED PLATE $\frac{3}{8}$ " X 1'-2" X 2'-0" LONG WITH HOLES FOR NO. 7. BEND AS SHOWN.
- (7) $\frac{3}{4}$ " ϕ X $1\frac{1}{2}$ " STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS $\frac{1}{16}$ " BELOW PLATE SURFACE.
- (8) $\frac{3}{4}$ " ϕ X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
- (9) $\frac{3}{4}$ " ϕ X $2\frac{1}{4}$ " GALVANIZED THREADED COUPLING.
- (10) 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.



* TOP OF OVERLAY
@ 2" ABOVE TOP
OF ORIGINAL DECK.



Technical drawing of a window assembly, showing a cross-section and a perspective view. The drawing includes callouts 1 through 10, which correspond to the components listed in the table below.

Technical drawing of a deck layout. The drawing shows a deck with a central rectangular area and a smaller rectangular area to the right. Dimensions are given in inches (9", 7", 2", 5", 1") and feet (2'-0", 6" MIN., 2"). A dashed line indicates the "EDGE OF DECK". A north arrow points towards the top right. A label "DIRECTION OF TRAFFIC" with an arrow points towards the top right. Numbered callouts (1, 6, 7, 8, 9, 10) point to various features, including a central oval, a rectangular area, and a small square. A small inset drawing shows a detail of a corner with a 2" dimension.

Technical drawing of a deck layout. The drawing shows a perspective view of a deck with various dimensions and markers. Key features include:

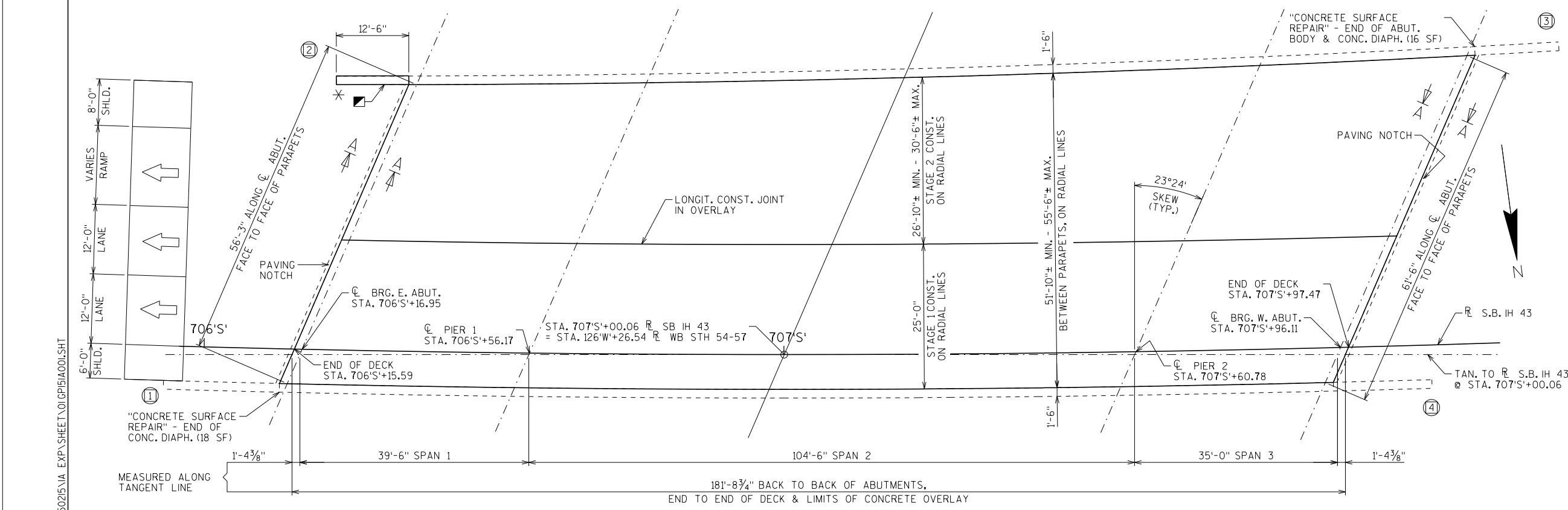
- Dimensions:**
 - Overall width: 9"
 - Overall length: 2'-0"
 - Section A-A: 6" MIN.
 - Section B-B: 7"
 - Section C-C: 2"
 - Section D-D: 1"
 - Section E-E: 5"
- Markers and Symbols:**
 - Circle 1: Located near the bottom left corner.
 - Circle 6: Located near the bottom center.
 - Circle 7: Located near the bottom right corner.
 - Circle 8: Located near the bottom right corner.
 - Circle 9: Located near the bottom right corner.
 - Circle 10: Located near the bottom center.
 - Circle 11: Located near the bottom right corner.
 - Circle 12: Located near the bottom right corner.
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 - Circle 81: Located near the bottom right corner.
 - Circle 82: Located near the bottom right corner.
 - Circle 83: Located near the bottom right corner.
 - Circle 84: Located near the bottom right corner.
 - Circle 85: Located near the bottom right corner.
 - Circle 86: Located near the bottom right corner.
 - Circle 87: Located near the bottom right corner.
 - Circle 88: Located near the bottom right corner.
 - Circle 89: Located near the bottom right corner.
 - Circle 90: Located near the bottom right corner.
 - Circle 91: Located near the bottom right corner.
 - Circle 92: Located near the bottom right corner.
 - Circle 93: Located near the bottom right corner.
 - Circle 94: Located near the bottom right corner.
 - Circle 95: Located near the bottom right corner.
 - Circle 96: Located near the bottom right corner.
 - Circle 97: Located near the bottom right corner.
 - Circle 98: Located near the bottom right corner.
 - Circle 99: Located near the bottom right corner.
 - Circle 100: Located near the bottom right corner.
- Labels:**
 - DIRECTION OF TRAFFIC: Indicated by an arrow pointing towards the top left.
 - EDGE OF DECK: Indicated by a dashed line.
 - SECTION A-A: Indicated by a dashed line.
 - SECTION B-B: Indicated by a dashed line.
 - SECTION C-C: Indicated by a dashed line.
 - SECTION D-D: Indicated by a dashed line.
 - SECTION E-E: Indicated by a dashed line.

Technical drawing of a traffic sign assembly. The drawing shows a cross-section of the assembly with various dimensions and components labeled with circled numbers 1 through 10. The top dimension is 2'-0" with an arrow indicating the "DIRECTION OF TRAFFIC". Below this, a 6" MIN. dimension is shown for the left sign panel, with a 2" dimension for the panel thickness. The right sign panel has a 5" dimension for the panel width and a 2 1/2" dimension for the panel thickness. A 2" dimension is shown for the right panel's mounting bracket. The sign panels are labeled 7. The mounting brackets are labeled 8. The sign posts are labeled 1. The sign post connection is labeled 135°. The sign post base is labeled 2. The sign post mounting bracket is labeled 9. The sign post mounting bracket is labeled 10. The sign post mounting bracket is labeled 6. The sign post mounting bracket is labeled 1.

AT WING CORNER 1
OPPOSITE HAND AT WING CORNER 2

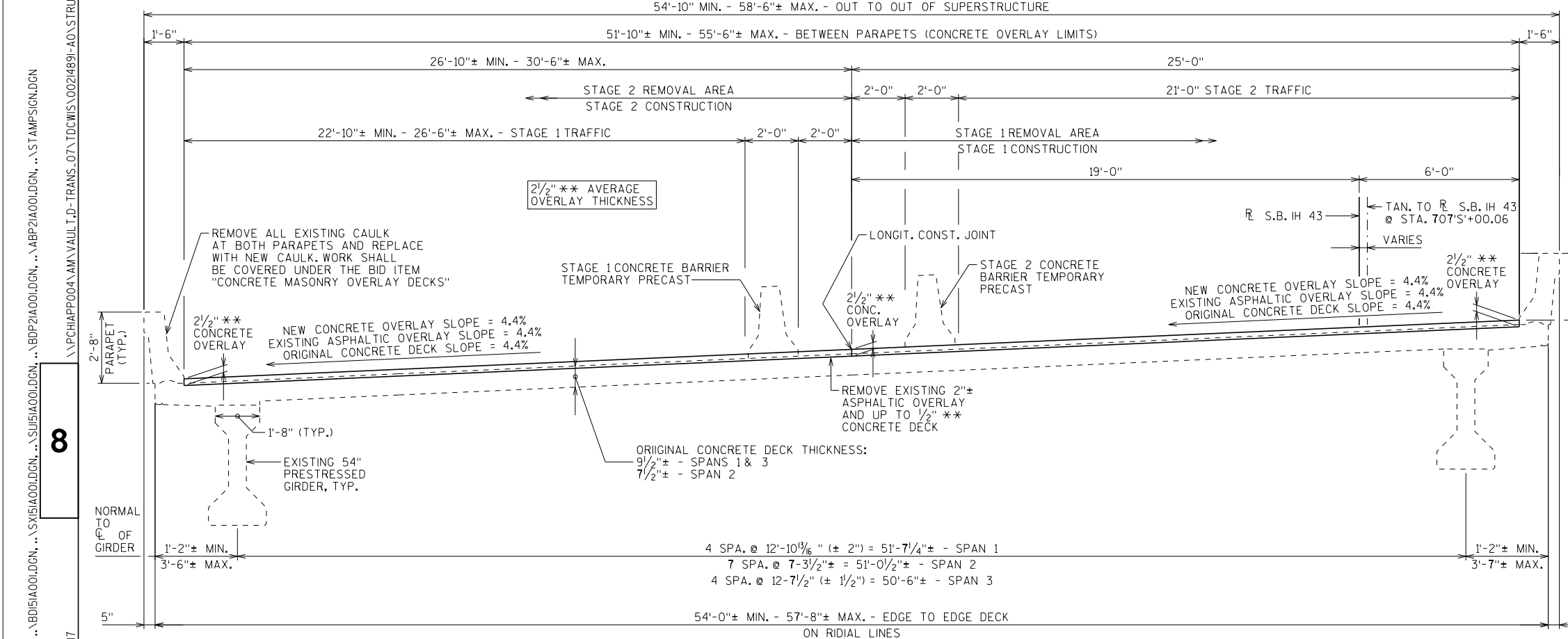
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-214			
		DRAWN BY J J G	PLANS CK'D. Y C
COVER PLATE DETAILS		SHEET 6 OF 6	

 BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.
 JOINT OPENING DIMENSION ALONG SKEW PLUS 1/2".



PLAN
(3-SPAN PRESTRESSED CONCRETE GIRDER, CONCRETE OVERLAY)

INDICATES WINGWALL NUMBER
REPLACE WINGWALL. SEE SHEET -- FOR DETAILS.
PROVIDE FOR THRIE BEAM GUARD RAIL ATTACHMENT

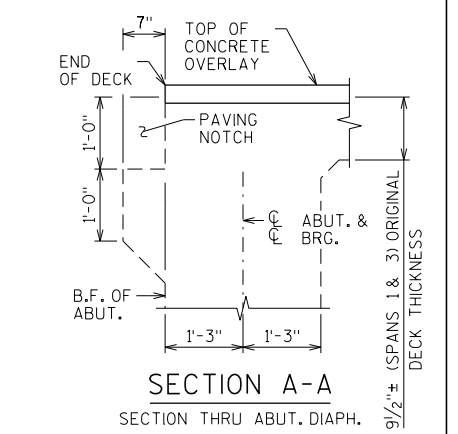


CROSS SECTION THRU DECK LOOKING WEST

** THE OVERLAY THICKNESS INCLUDES 1/2" THICKNESS OF CONCRETE REMOVAL FROM ORIGINAL CONCRETE DECK.

STRUCTURE DESIGN CONTACTS
BRIDGE OFFICE: WILLIAM DREHER, P.E. (608) 266-8489
CONSULTANT: VINOD PATEL, P.E. (312) 616-7395

STATE PROJECT NUMBER
1227-08-73



DATE: 02/03/2017

LIST OF DRAWINGS

- 1. GENERAL PLAN & CROSS SECTION
- 2. QUANTITIES & NOTES
- 3. WINGWALL 2 REPLACEMENT
- 4. SLOPED FACE PARAPET "B"

NO.	DATE	REVISION	BY
exp. U.S. Services Inc. Milwaukee, WI BUILDINGS • EARTH & ENVIRONMENT • ENERGY INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED: CHIEF STRUCTURES DESIGN ENGINEER DATE			
STRUCTURE B-5-215			
IH 43 SB OVER STH 54 WB-STH 57 SB			
COUNTY	BROWN	TOWN/CITY/VILLAGE	GREEN BAY
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY	YC	DESIGN CK'D.	VCP
DRAWN BY	JUG/YC	PLANS CK'D.	VCP
GENERAL PLAN & CROSS SECTION			SHEET 1 OF 4

\\PCHAPP004\AM\VAUL I.D.-TRANS_07\TDCWIS\00214891-A0\STRUCT\CAD\N5_B05025\NVA_EXP\SHEET\OIGP5IA001.SHT
8
CHUNYM
2-03-2017, 14:37:17

BID ITEM NUMBER	BID ITEMS	UNIT	E. ABUT.	W. ABUT.	SUPER.	TOTAL
203.0200.02	REMOVING OLD STRUCTURE STA. 706'S+57.83	LS	-	-	-	1
206.1000.02	EXCAVATION FOR STRUCTURES BRIDGES B-5-215	LS	-	-	-	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	43	-	-	43
502.0100	CONCRETE MASONRY BRIDGES	CY	6	-	-	6
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	1,090	1,090
502.3210	PIGMENTED SURFACE SEALER	SY	12	11	139	162
502.4204	ADHESIVE ANCHORS NO. 4 BAR	EACH	2	-	-	2
502.4206	ADHESIVE ANCHORS NO. 6 BAR	EACH	19	-	-	19
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	890	-	-	890
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	109	109
509.0302	PREPARATION DECKS TYPE 2	SY	-	-	44	44
509.0500	CLEANING DECKS	SY	-	-	1,090	1,090
509.1500	CONCRETE SURFACE REPAIR	SF	18	20	26	64
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	1	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	-	-	85	85
509.9010.S.10	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-215	SY	-	-	1,090	1,090
509.9050.S	CLEANING PARAPETS	LF	20	32	366	418
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	3	-	-	3
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	43	-	-	43
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	1	-	-	1
	NON-BID ITEMS					
	PREFORMED JOINT FILLER	SIZE	-	-	-	1/2 "

6" NOMINAL

*

B

B

3/8" MAX.

SECTION B-B

1 1/2"

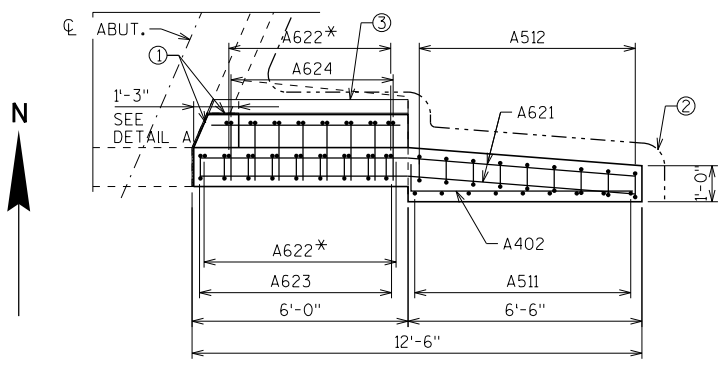
THE RODENT SCREEN SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SCREEN TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SCREEN SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 x 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

INSTALL RODENT SCREEN(S) AT THE EXPOSED END(S) OF PIPE UNDERDRAIN.

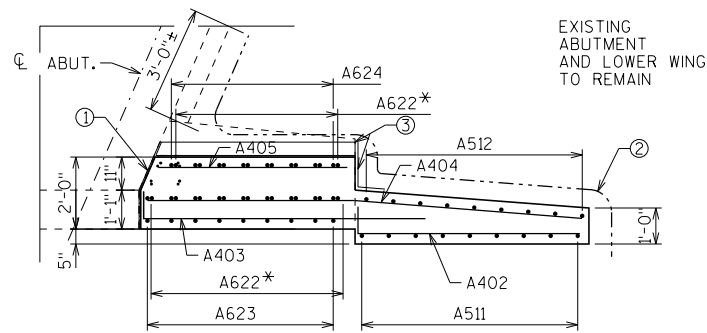
PI = STA. 695'S+72.537
 $\Delta = 43^{\circ}-17'-25.59''$
 D = $1^{\circ}-32'-07.34''$
 T = 1480.900'
 L = 2819.540'
 R = 3731.719'
 SE = 4.4%
 RO = 201'
 PC = STA. 680'S'+91.639
 PT = STA. 709'S'+11.177 BK =
 STA. 709'S'+77.665 AH

MATERIAL PROPERTIES:		
CONCRETE MASONRY:	OVERLAY DECKS	f'c = 4,000 P.S.I.
	ALL OTHER	f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60:		fy = 60,000 P.S.I.

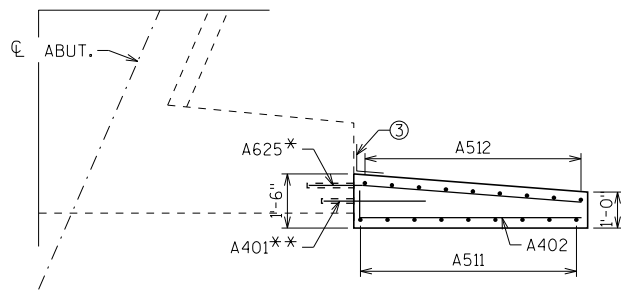
<u>IH 43</u> A.D.T. = 50,400 (2036) R.D.S. = 70 MPH	<u>STH 54 WB - STH 57 SB</u> A.D.T. = 20,000 (2036) R.D.S. = 70 MPH
---	---



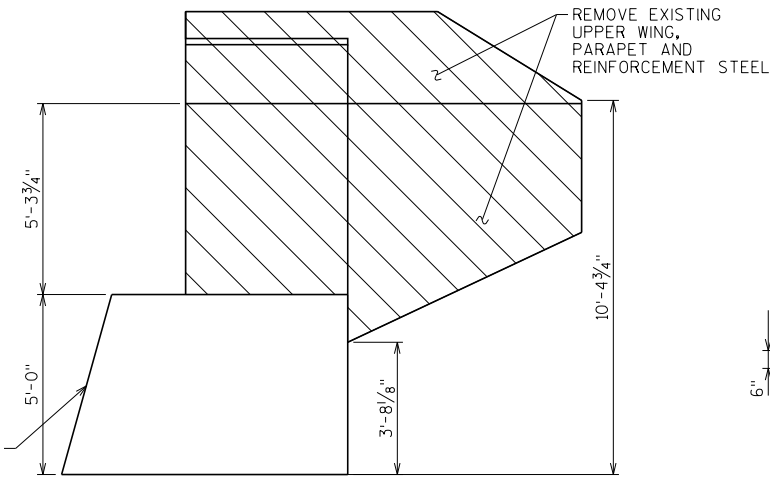
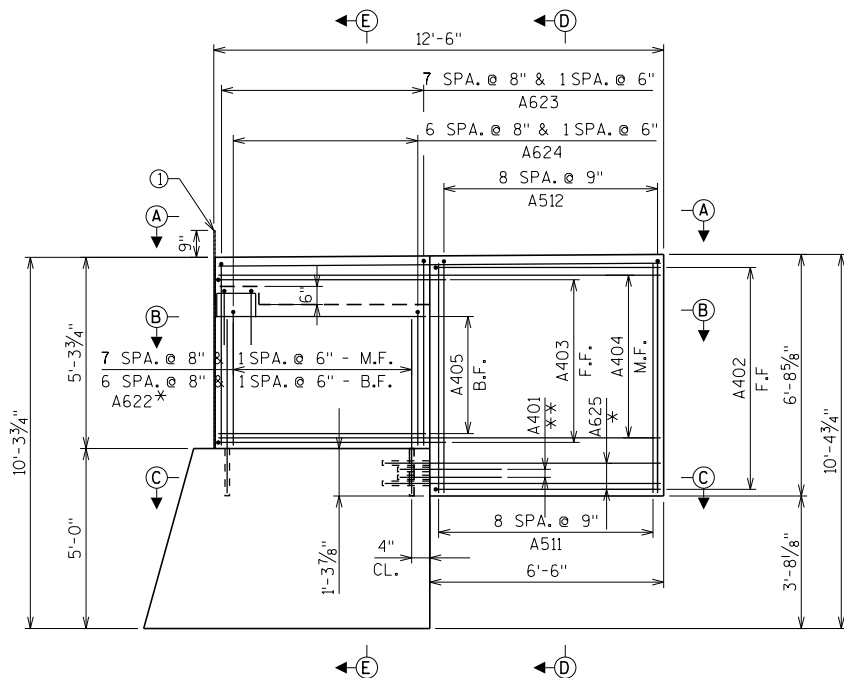
SECTION A-A



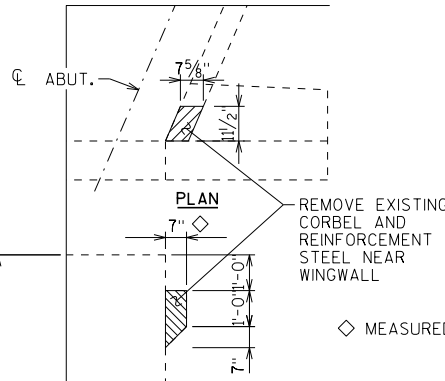
SECTION B-B



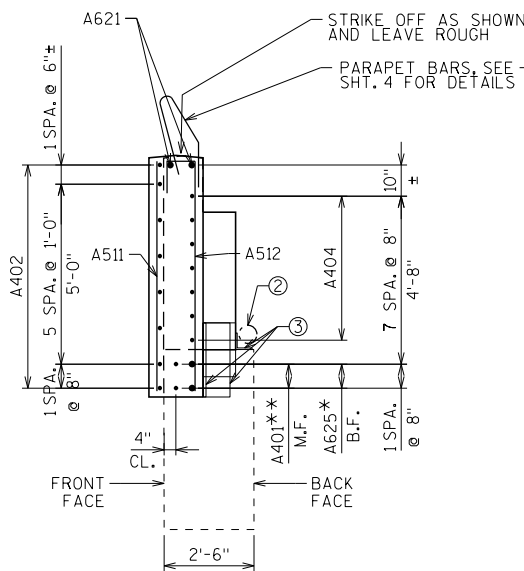
SECTION C-C



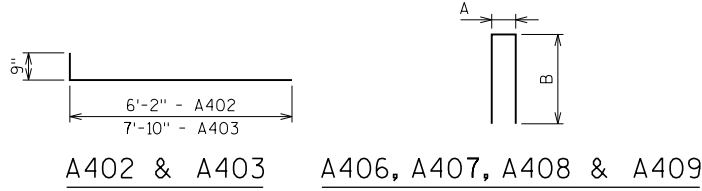
EXISTING WING REMOVAL



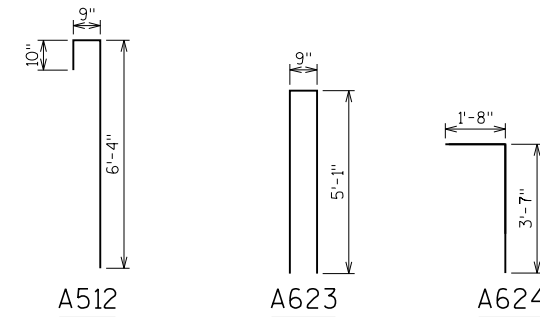
PARTIAL CORBEL REMOVAL



SECTION D-D



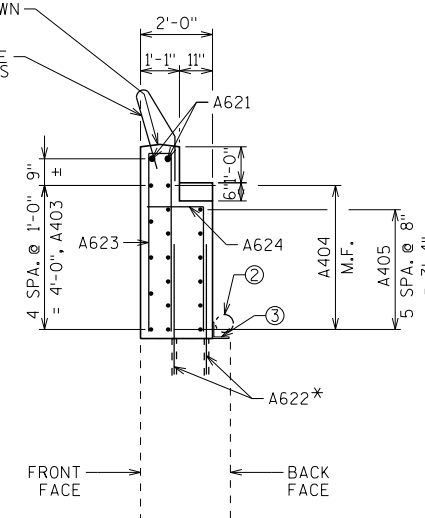
A402 & A403



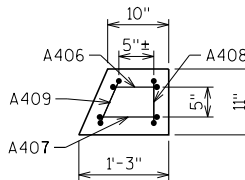
A512

A623

A624



SECTION E-E



DETAIL A

STATE PROJECT NUMBER

1227-08-73

BILL OF BARS

650 LBS					
BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	LOCATION
* A401	X	2	2'-10"		HORIZONTAL ANCHOR BARS, BOTTOM, M.F.
A402	X	8	6'-10"	X	HORIZONTAL, F.F.
A403	X	5	8'-6"	X	HORIZONTAL, F.F.
A404	X	7	12'-1"	X	HORIZONTAL, M.F.
A405	X	6	5'-3"		HORIZONTAL, B.F.
A406	X	1	3'-5"	X	U BAR, PAVING NOTCH
A407	X	1	3'-7"	X	U BAR, PAVING NOTCH
A408	X	1	3'-5"	X	U BAR, PAVING NOTCH
A409	X	1	3'-6"	X	U BAR, PAVING NOTCH
A511	X	9	6'-4"		VERTICAL, F.F.
A512	X	9	7'-8"	X	VERTICAL, B.F.
A621	X	2	12'-1"	X	HORIZONTAL, TOP OF WING
* A622	X	17	3'-10"		VERTICAL ANCHOR BARS, M.F. & B.F.
A623	X	9	10'-7"	X	VERTICAL U BARS, F.F.
A624	X	8	5'-1"	X	VERTICAL L BARS, B.F.
* A625	X	2	7'-7"	X	HORIZONTAL ANCHOR BARS, BOTTOM, B.F.

THE FIRST DIGIT OF A THREE DIGIT MARK SIGNIFIES THE BAR SIZE.
ALL BAR DIMENSIONS ARE OUT TO OUT OF BAR.

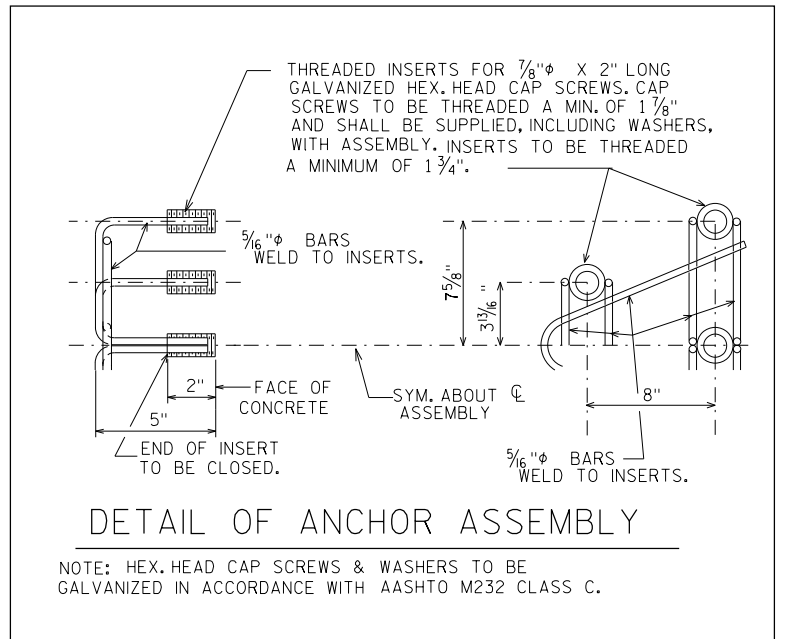
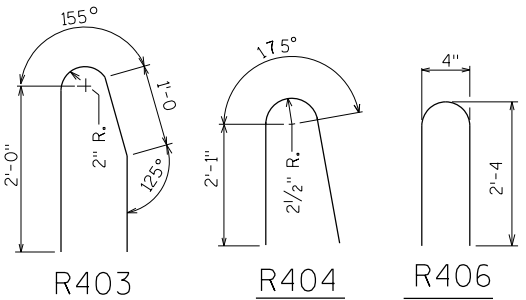
NOTES:

- 1/2" FILLER INCLUDED IN WING LENGTH, SEAL ALL HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.
 - PIPE UNDERDRAIN WRAPPED 6 INCH, SLOPE 0.5% MIN. TO DRAIN.
 - 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
 - PROVIDE 2" CLEAR COVER UNLESS NOTED OTHERWISE.
- * ADHESIVE ANCHORS NO. 6 BAR. EMBED 15" INTO CONCRETE.
- ** ADHESIVE ANCHORS NO. 4 BAR. EMBED 10" INTO CONCRETE.

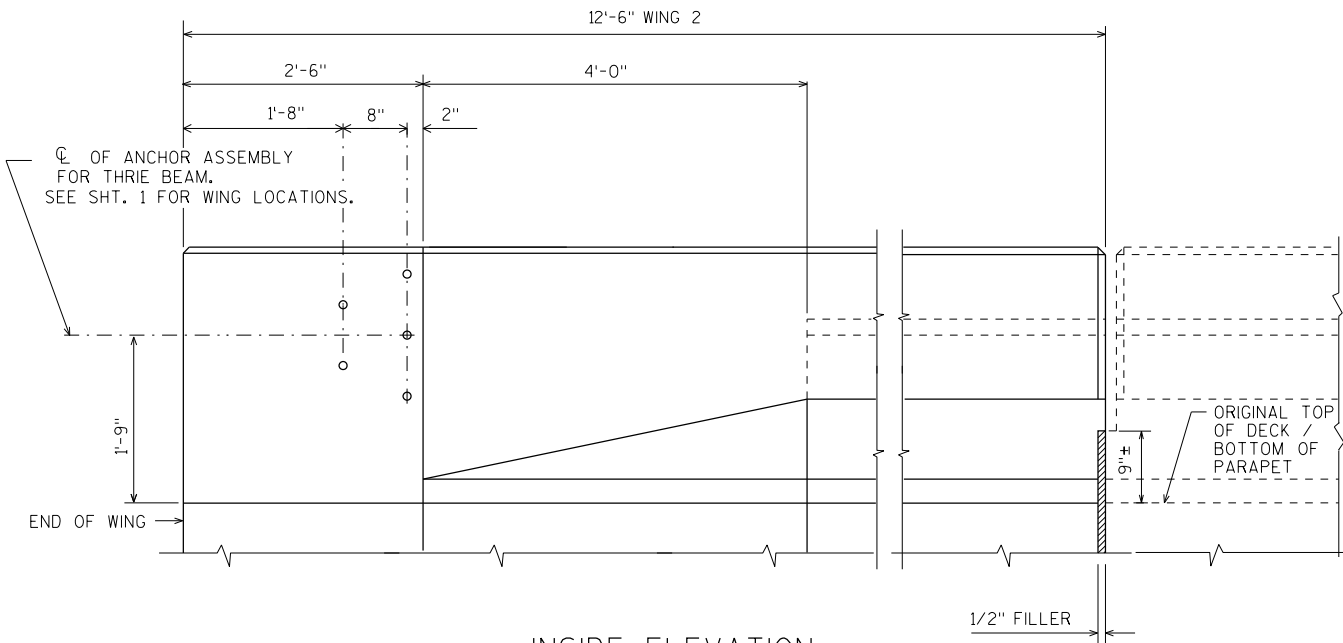
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-215			
DRAWN BY JJC		PLANS CK'D. YC	
WINGWALL 2 REPLACEMENT		SHEET 3 OF 4	

THE FIRST DIGIT OF THE BAR MARK SIGNIFIES
THE BAR SIZE. EPOXY COAT ALL PRAPET REINF.

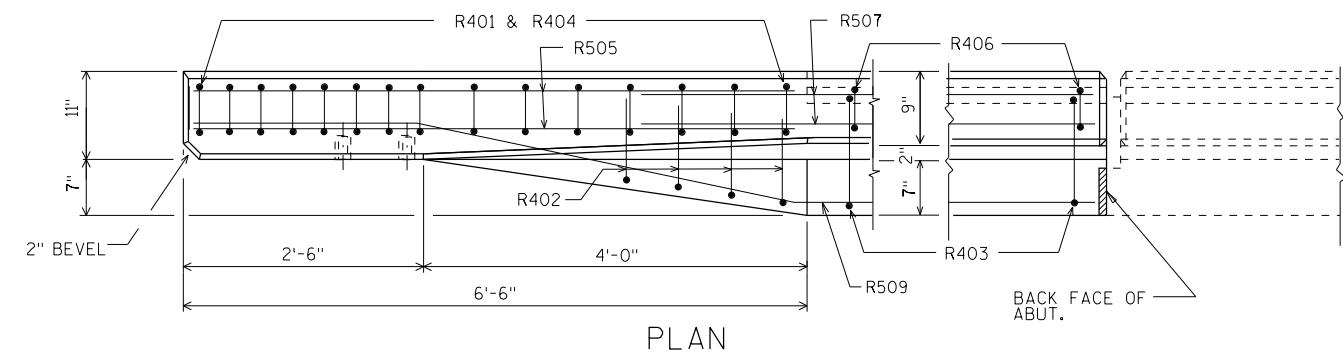
		UNCOATED:		E. ABUT.	W. ABUT.
		COATED:		0 LBS	0 LBS
				240 LBS	0 LBS
BAR MARK	NO. REQ'D E. ABUT.	W. ABUT.	LENGTH	BENT	LOCATION
R401	15	-	4'-9"	X	WING 2 STIRRUPS
R402	4	-	3'-1"	X	WING 2
R403	8	-	4'-7"	X	WING 2 STIRRUPS
R404	15	-	4'-9"	X	WING 2
R505	6	-	6'-2"		WING 2
R406	8	-	4'-10"	X	WING 2
R507	4	-	7'-9"		WING 2
- - -	-	-			
R509	1	-	12'-1"	X	WING 2
- - -	-	-			
- - -	-	-			



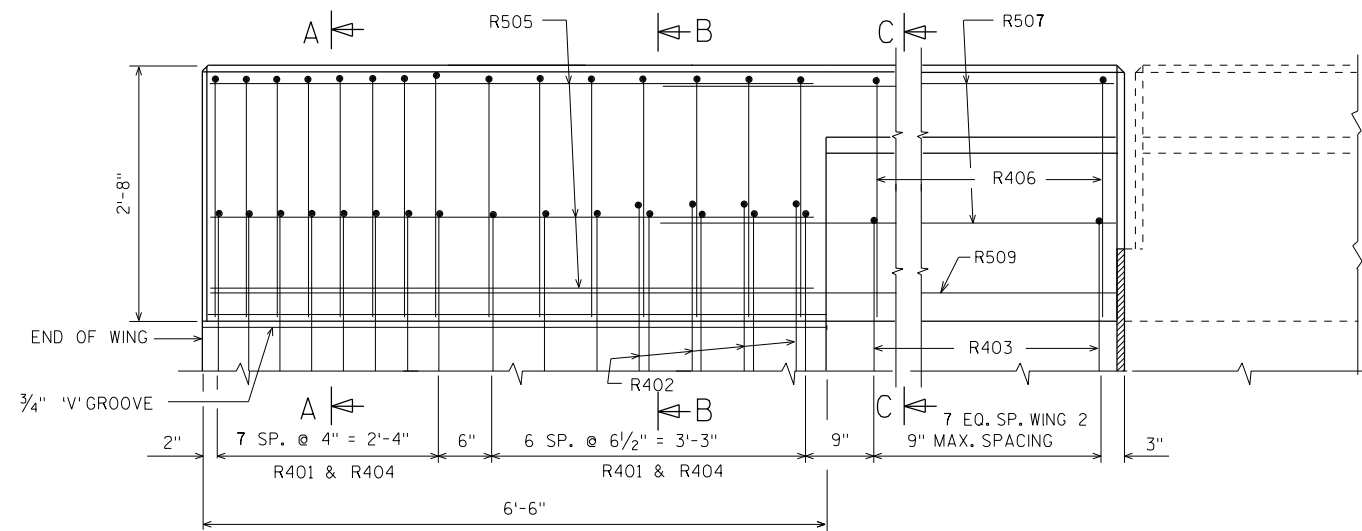
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-215			
		DRAWN BY J J G	PLANS CK'D. Y C
SLOPED FACE PARAPET "B"		SHEET 4 OF 4	



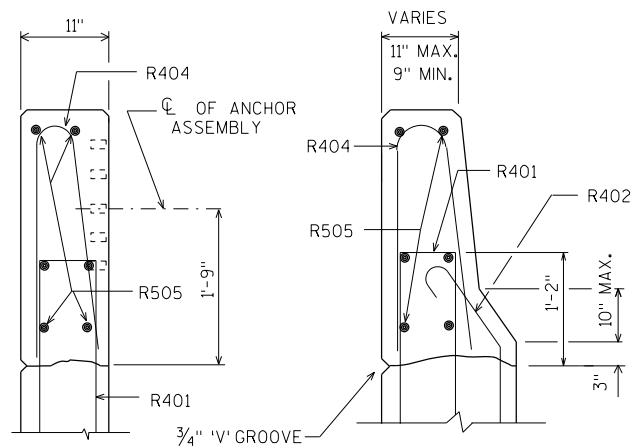
INSIDE ELEVATION



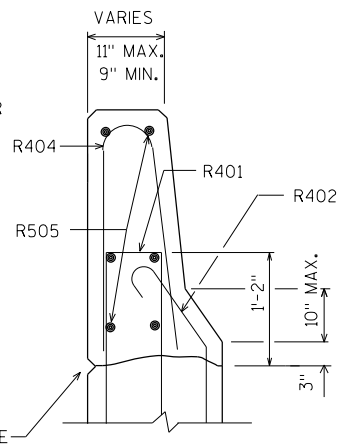
PLAN



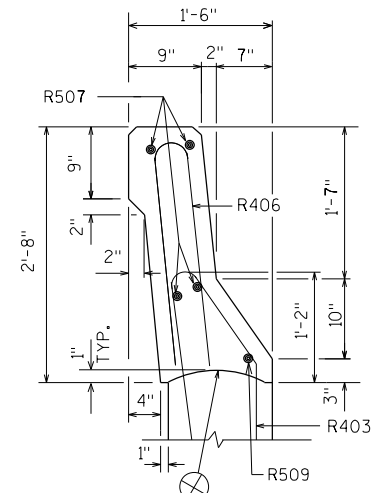
OUTSIDE ELEVATION



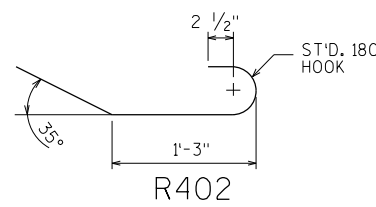
SECTION A



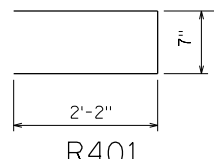
SECTION B



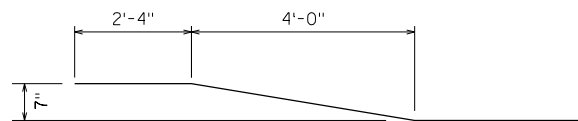
SECTION C



R402



R401



R509

⊗ CONST. JOINT - STRIKE OFF
AS SHOWN.



BID ITEM NUMBER	BID ITEMS	UNIT	E. ABUT.	W. ABUT.	SUPER.	TOTAL
203.0200.03	REMOVING OLD STRUCTURE STA. 707'N'+31.15	LS	-	-	-	1
206.1000.03	EXCAVATION FOR STRUCTURES BRIDGES B-5-216	LS	-	-	-	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	42	-	-	42
502.0100	CONCRETE MASONRY BRIDGES	CY	6	-	-	6
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	935	935
502.3210	PIGMENTED SURFACE SEALER	SY	11	11	148	170
502.4204	ADHESIVE ANCHORS NO. 4 BAR	EACH	2	-	-	2
502.4206	ADHESIVE ANCHORS NO. 6 BAR	EACH	19	-	-	19
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	890	-	-	890
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	94	94
509.0302	PREPARATION DECKS TYPE 2	SY	-	-	38	38
509.0500	CLEANING DECKS	SY	-	-	935	935
509.1500	CONCRETE SURFACE REPAIR	SF	9	9	42	60
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	1	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	-	-	73	73
509.9010.S.11	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-216	SY	-	-	935	935
509.9050.S	CLEANING PARAPETS	LF	19	31	390	440
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	3	-	-	3
604.9010.S	SLOPE PAVING REPAIR CRUSHED AGGREGATE	CY	-	4	-	4
606.0100	RIPRAP LIGHT	CY	-	6	-	6
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	43	-	-	43
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	1	-	-	1
	NON-BID ITEMS					
	PREFORMED JOINT FILLER	SIZE	-	-	-	1/2 "

F.F. ABUT. & BRIDGE SEAT ELEV.

2'-6"

2'-6"

MATCH EXISTING SLOPE

EXISTING SLOPE PAVING CRUSHED AGGREGATE

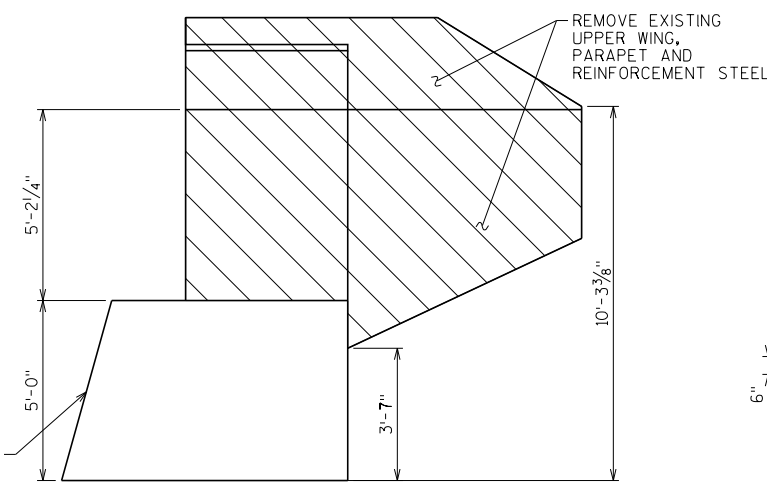
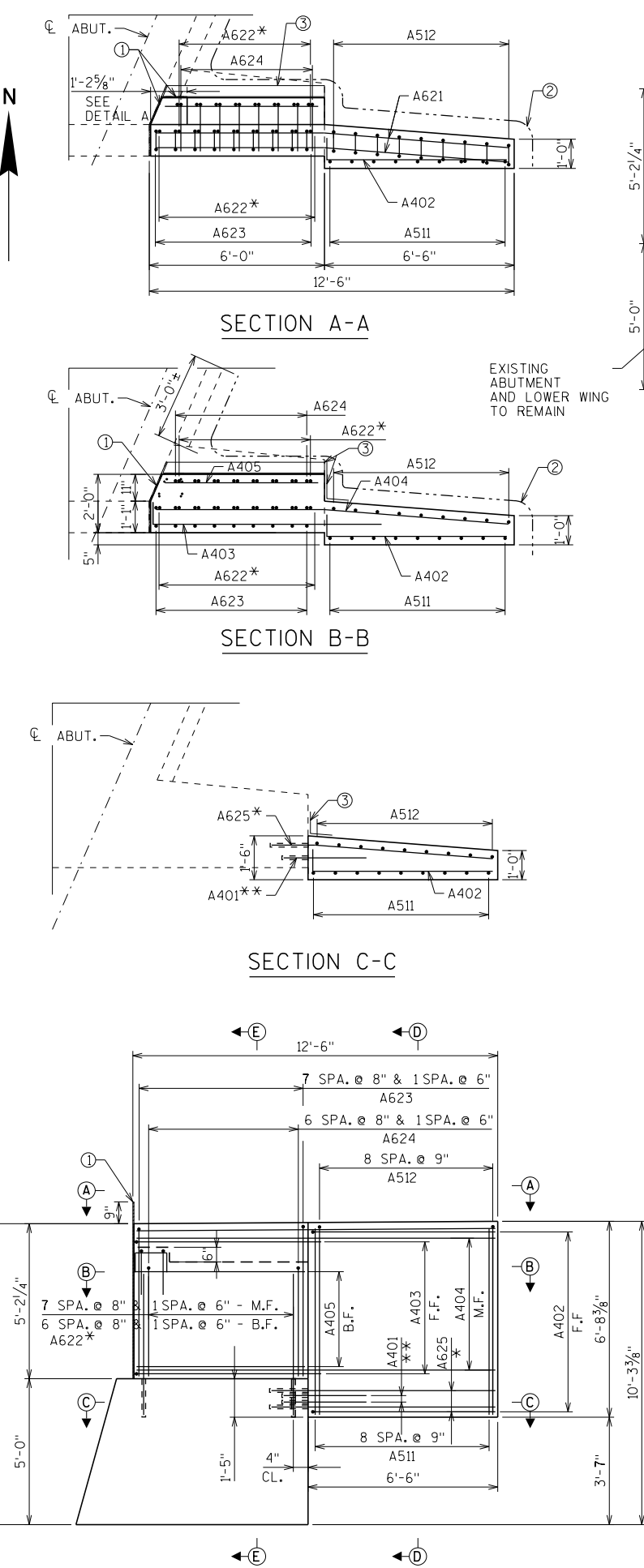
2:1

BS "SLOPE PAVING REPAIR CRUSHED AGGREGATE"

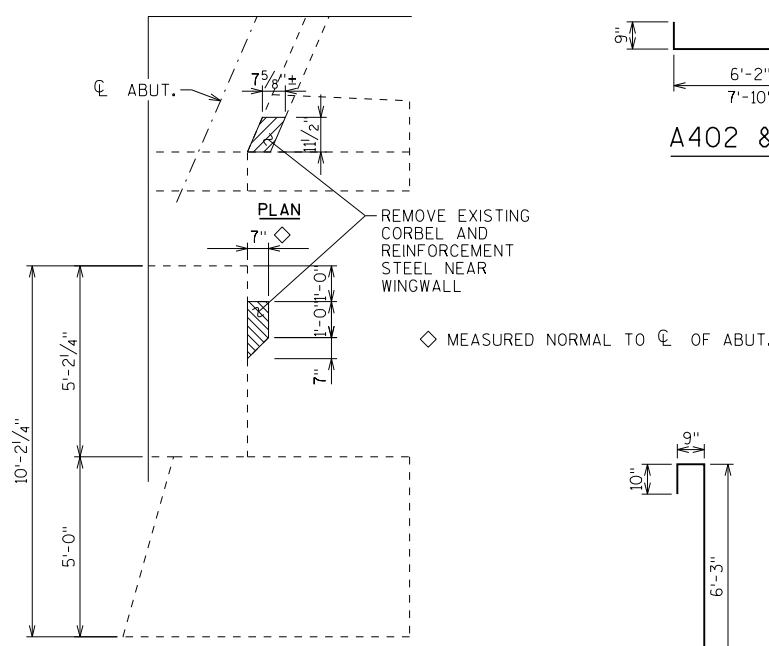
SECTION AT SOUTH END OF WEST ABUTMENT

SLOPE PAVING REPAIR DETAIL

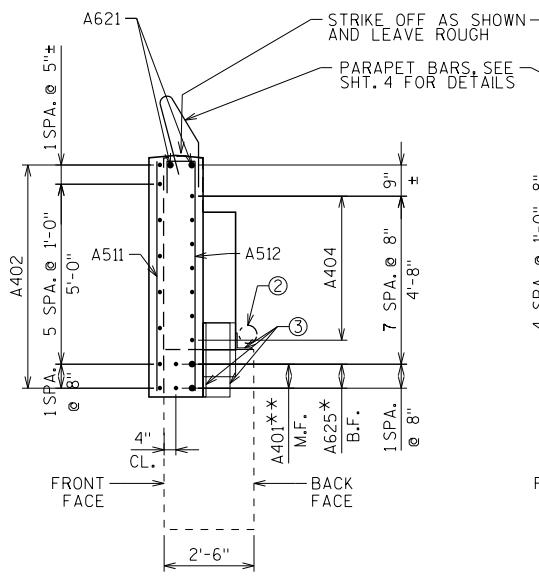
CROSS SECTION THRU DECK LOOKING WEST



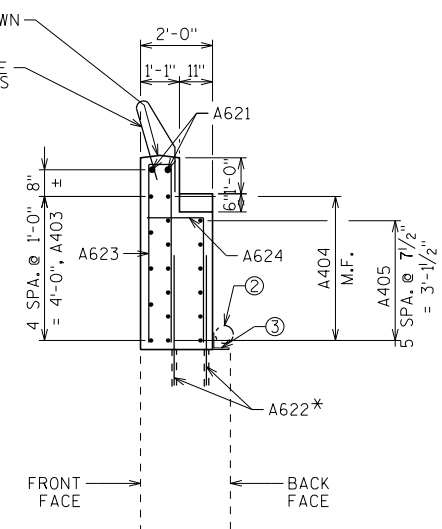
EXISTING WING REMOVAL



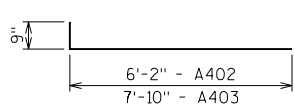
PARTIAL CORBEL REMOVAL



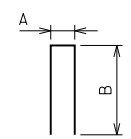
SECTION D-D



SECTION E-E

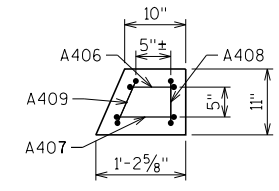


A402 & A403



A406, A407, A408 & A409

BAR	A	B
A406	7"	1'-6"
A407	9"	1'-6"
A408	7"	1'-6"
A409	8	1'-6"



DETAIL A

STATE PROJECT NUMBER

1227-08-73

BILL OF BARS

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	LOCATION
A401	X	2	2'-10"		HORIZONTAL ANCHOR BARS, BOTTOM, M.F.
A402	X	8	6'-10"	X	HORIZONTAL, F.F.
A403	X	5	8'-6"	X	HORIZONTAL, F.F.
A404	X	7	12'-1"	X	HORIZONTAL, M.F.
A405	X	6	5'-4"		HORIZONTAL, B.F.
A406	X	1	3'-5"	X	U BAR, PAVING NOTCH
A407	X	1	3'-7"	X	U BAR, PAVING NOTCH
A408	X	1	3'-5"	X	U BAR, PAVING NOTCH
A409	X	1	3'-6"	X	U BAR, PAVING NOTCH
A511	X	9	6'-3"		VERTICAL, F.F.
A512	X	9	7'-7"	X	VERTICAL, B.F.
A621	X	2	12'-1"	X	HORIZONTAL, TOP OF WING
A622	X	17	3'-10"		VERTICAL ANCHOR BARS, M.F. & B.F.
A623	X	9	10'-5"	X	VERTICAL U BARS, F.F.
A624	X	8	5'-0"	X	VERTICAL L BARS, B.F.
A625	X	2	7'-7"	X	HORIZONTAL ANCHOR BARS, BOTTOM, B.F.

THE FIRST DIGIT OF A THREE DIGIT MARK SIGNIFIES THE BAR SIZE.
ALL BAR DIMENSIONS ARE OUT TO OUT OF BAR.

NOTES:

- 1/2" FILLER INCLUDED IN WING LENGTH, SEAL ALL HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.
 - PIPE UNDERDRAIN WRAPPED 6 INCH, SLOPE 0.5% MIN. TO DRAIN.
 - 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
 - PROVIDE 2" CLEAR COVER UNLESS NOTED OTHERWISE.
- * ADHESIVE ANCHORS NO. 6 BAR. EMBED 15" INTO CONCRETE.
- ** ADHESIVE ANCHORS NO. 4 BAR. EMBED 10" INTO CONCRETE.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-216			
DRAWN BY JJC		PLANS CK'D. YC	
WINGWALL 2 REPLACEMENT		SHEET 3 OF 4	

BILL OF BARS

FOR ABUTMENT PARAPETS

THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE. EPOXY COAT ALL PRAPET REINF.

BAR MARK	NO. REQ'D	E. ABUT.	W. ABUT.	LENGTH	BENT	LOCATION
R401	15	-	-	4'-9"	X	WING 2 STIRRUPS
R402	4	-	-	3'-1"	X	WING 2
R403	8	-	-	4'-7"	X	WING 2 STIRRUPS
R404	15	-	-	4'-9"	X	WING 2
R505	6	-	-	6'-2"	-	WING 2
R406	8	-	-	4'-10"	X	WING 2
R507	4	-	-	7'-9"	-	WING 2
-	-	-	-	-	-	-
R509	1	-	-	12'-1"	X	WING 2
-	-	-	-	-	-	-
-	-	-	-	-	-	-

UNCOATED:

E. ABUT. 0 LBS

W. ABUT. 0 LBS

COATED:

240 LBS

0 LBS

INSIDE ELEVATION

PLAN

OUTSIDE ELEVATION

SECTION A

SECTION B

SECTION C

R401

R402

R403

R404

R406

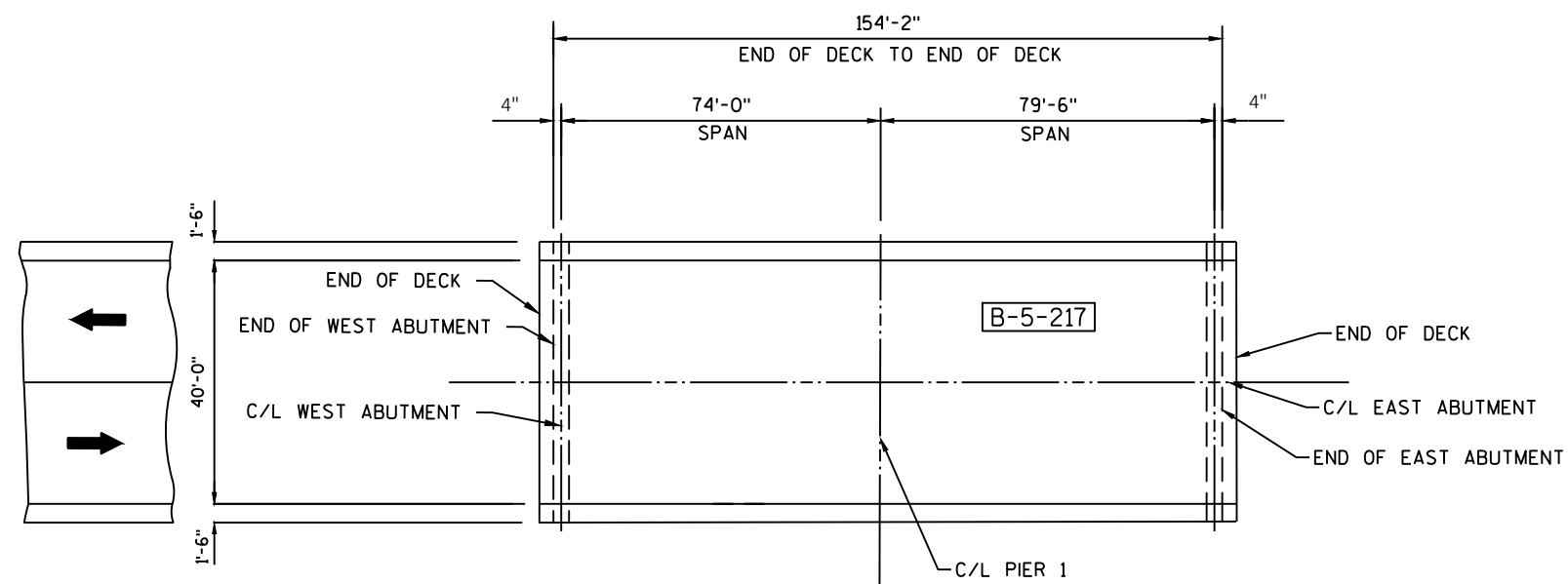
R509

DETAIL OF ANCHOR ASSEMBLY

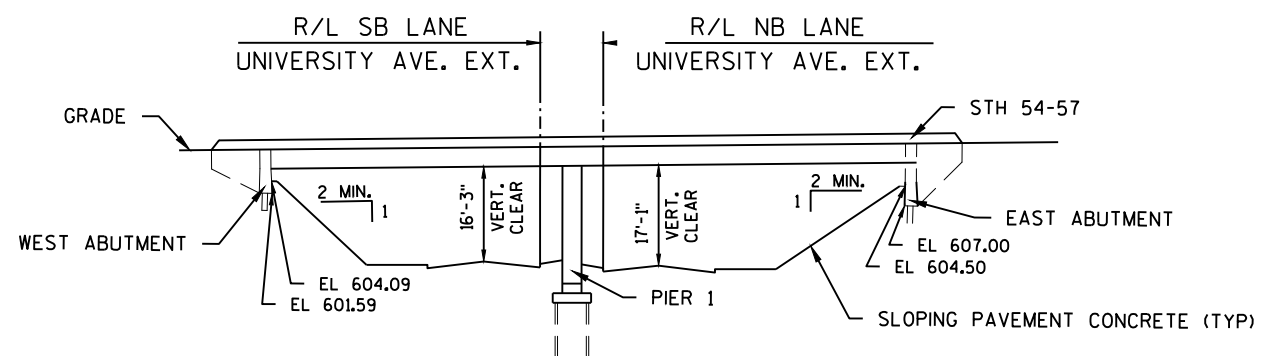
NOTE: HEX. HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-216			
DRAWN BY JJG		PLANS CK'D. YC	
SLOPED FACE PARAPET "B"		SHEET 4 OF 4	

CONST. JOINT - STRIKE OFF AS SHOWN.



PLAN B-5-217



ELEVATION B-5-217

AADT = 15,900 (2018)
AADT = 25,500 (2023)
RDS = 55 MPH

LIVE LOAD (TAKEN FROM HSI - 7/11/2019)
DESIGN LOADING: HS=20
INVENTORY RATING: HS=22
OPERATING RATING: HS=37
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV)=250 (KIPS)

NE REGION PROJECT MANAGER
BRIAN HAEN (920) 366-4788

BUREAU OF STRUCTURES
WILLIAM DREHER (608) 266-8489

1. GENERAL PLAN & ELEVATION
2. CROSS SECTION, GENERAL NOTES & QUANTITIES

Plans
Prepared By **WISDOT**

ACCEPTED _____
CHIEF STRUCTURES DESIGN ENGINEER DATE _____

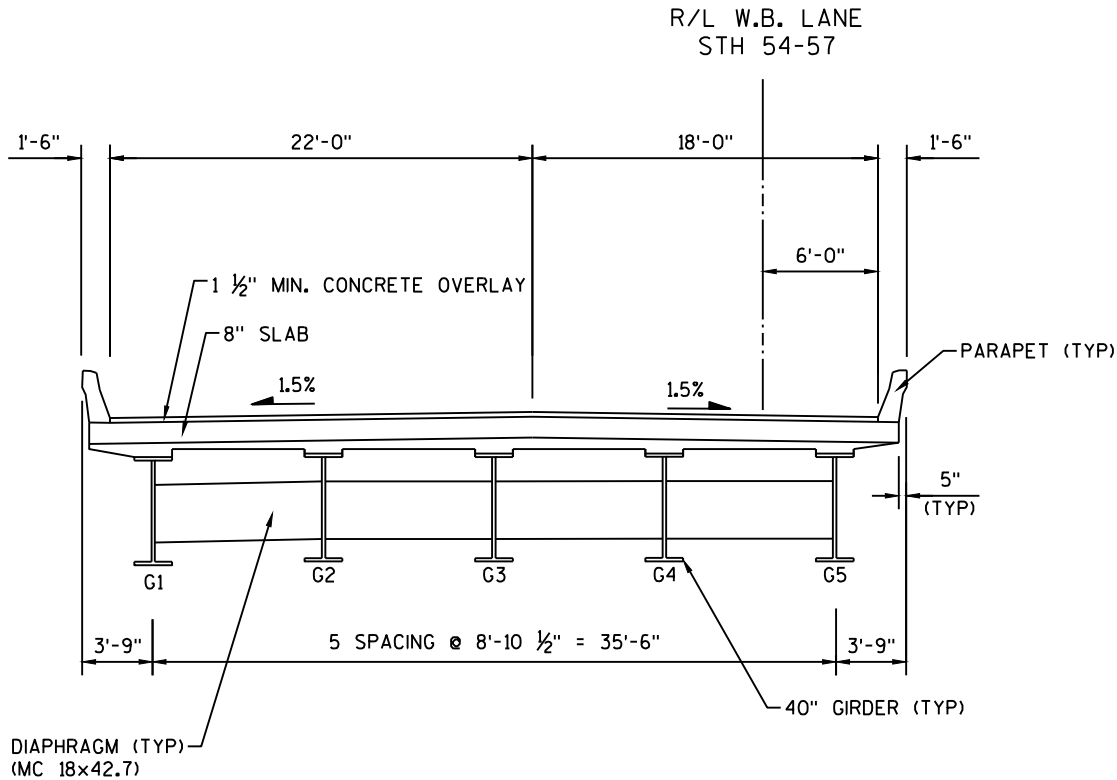
STRUCTURE B-5-217

STH 54-57 W.B. OVER UNIVERSITY AVE. EXT.

COUNTY				CITY			
BROWN				GREEN BAY			
DESIGN SPEC.				LOAD	CONST. SPEC.		
AASHTO 2002				HS-20	2003		
DESIGNED BY	KAS	DESIGN CK'D.	ESG	DRAWN BY	JBS	PLANS CK'D.	ESG

GENERAL PLAN & ELEVATION

SHEET 1 OF 2



CROSS SECTION THRU ROADWAY
(LOOKING EAST)

NOTES

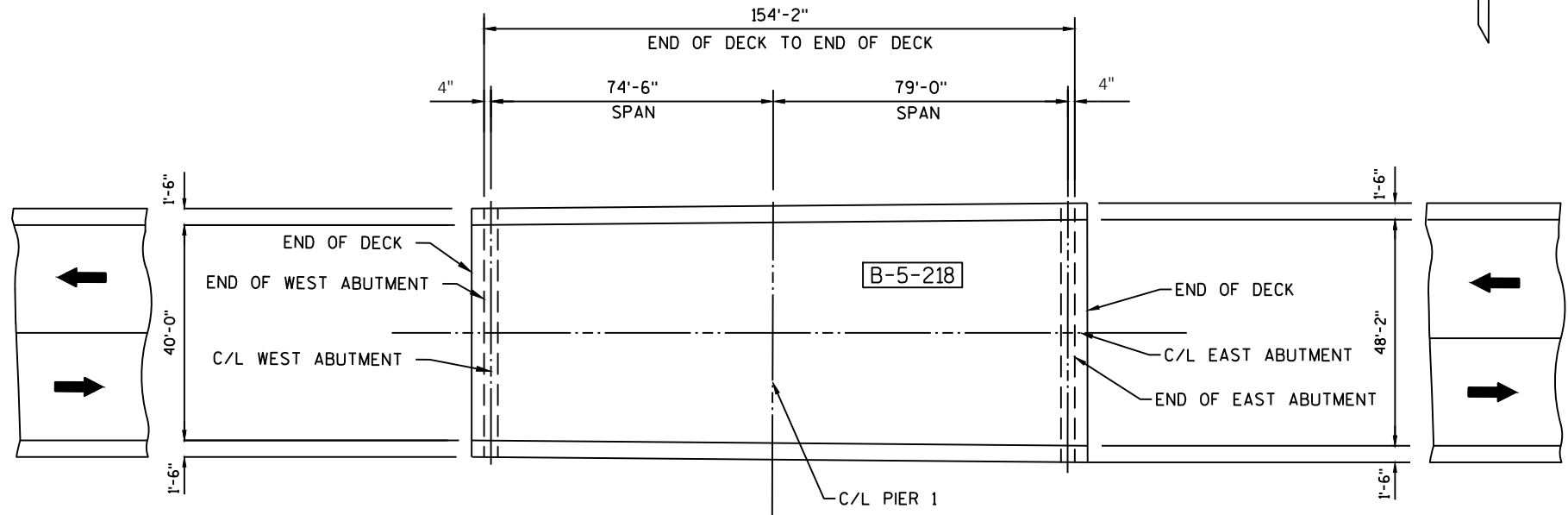
DRAWINGS SHALL NOT BE SCALED.
DIMENSIONS SHOWN ARE BASED ON THE EXISTING ORIGINAL STRUCTURE PLANS.
CONTRACTOR SHALL VERIFY DIMENSIONS IN THE FIELD
SEE HIGHWAY STRUCTURE INFORMATION SYSTEM FOR ADDITIONAL DETAIL.
PAINT COLOR SHALL BE FEDERAL STANDARD COLOR NO. 26293 LIGHT GRAY.
ALL EXPOSED STEEL SURFACES UNDERNEATH THE BRIDGE ARE TO BE
CLEANED AND PAINTED. THE SURFACES INCLUDE GIRDERS, CROSS FRAMING,
DIAPHRAGMS, STIFFENERS, BEARINGS AND CONNECTIONS.
THERE ARE 28 DIAPHRAGMS ON STRUCTURE B-5-217 THAT SHALL BE PAINTED.

TOTAL ESTIMATED QUANTITIES

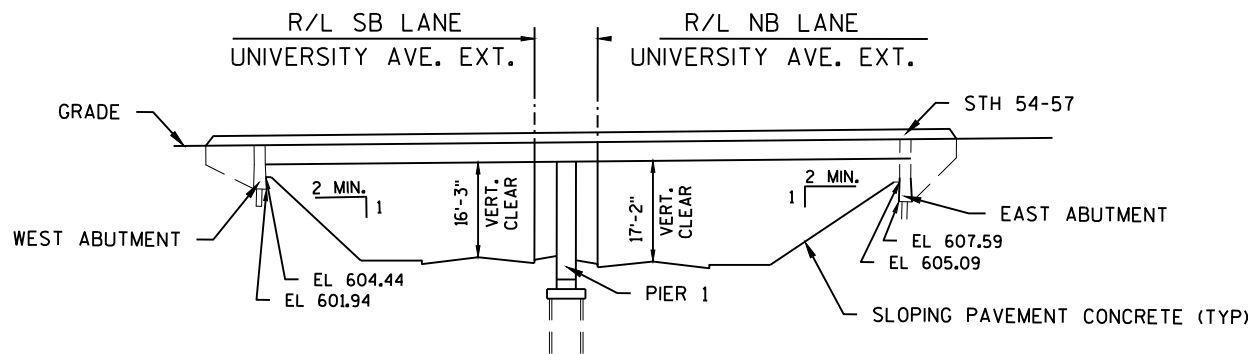
CATEGORY NO.	ITEM NO.	BID ITEMS	UNIT	TOTAL
0030	517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE B-5-217	LS	1
0030	517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-5-217	LS	1
0030	517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	1

FOR INFORMATION ONLY: APPROXIMATELY 8,500 SF OF STRUCTURAL STEEL

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-217			
DRAWN BY	JBS	PLANS CK'D.	ESG
CROSS-SECTION, GENERAL NOTES & QUANTITIES			SHEET 2 OF 2



PLAN B-5-218



ELEVATION B-5-218

TRAFFIC DATA

AADT = 15,900 (2018)
AADT = 25,500 (2023)
RDS = 55 MPH

DESIGN DATA

LIVE LOAD (TAKEN FROM HSI - 7/11/2019)
DESIGN LOADING: HS=20
INVENTORY RATING: HS=22
OPERATING RATING: HS=37
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV)=250 (KIPS)

CONTACTS

NE REGION PROJECT MANAGER
BRIAN HAEN (920) 366-4788
BUREAU OF STRUCTURES
WILLIAM DREHER (608) 266-8489

LIST OF DRAWINGS

- GENERAL PLAN & ELEVATION
- CROSS SECTION, GENERAL NOTES & QUANTITIES



Plans Prepared By **WISDOT**

ACCEPTED _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-5-218

STH 54-57 E.B. OVER UNIVERSITY AVE. EXT.

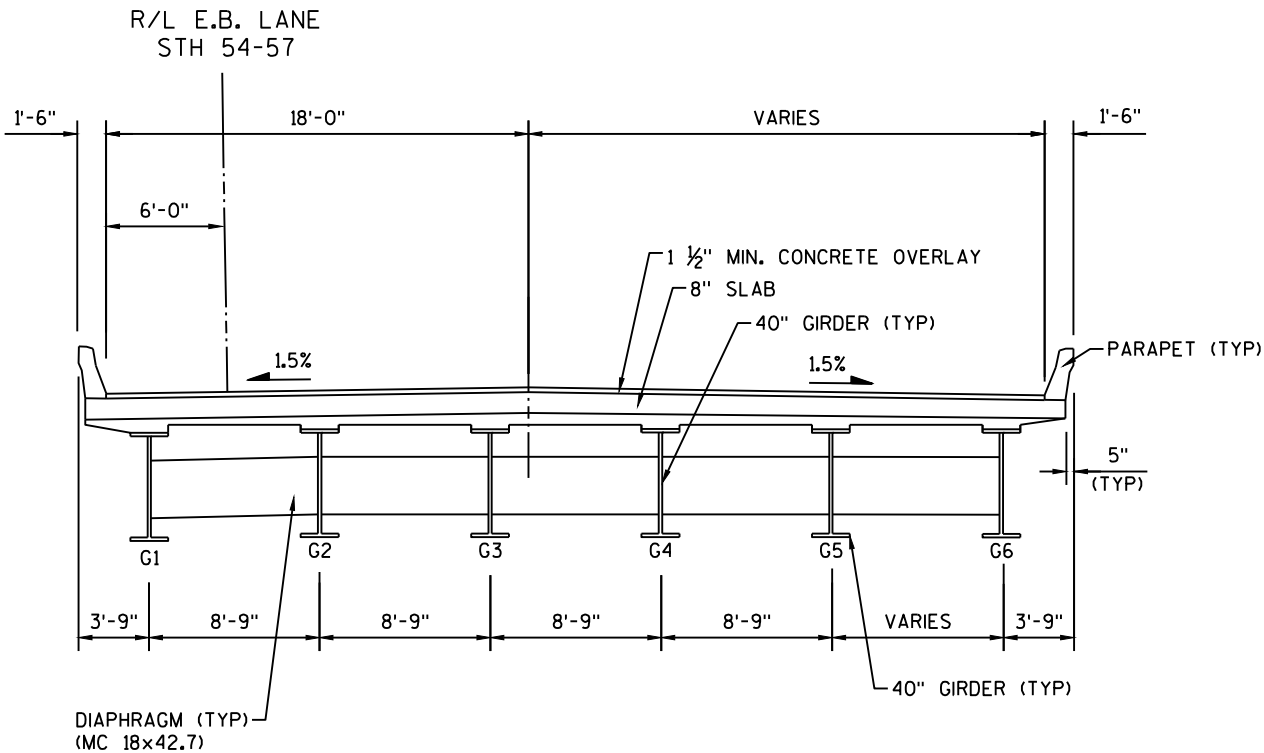
COUNTY BROWN CITY GREEN BAY

DESIGN SPEC. AASHTO 2002 LOAD HS-20 CONST. SPEC. 2003

DESIGNED BY KAS DESIGN CK'D. ESG DRAWN BY JBS PLANS CK'D. ESG

GENERAL PLAN
&
ELEVATION

SHEET 1 OF 2



CROSS SECTION THRU ROADWAY
(LOOKING EAST)

NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING ORIGINAL STRUCTURE PLANS.

CONTRACTOR SHALL VERIFY DIMENSIONS IN THE FIELD

SEE HIGHWAY STRUCTURE INFORMATION SYSTEM FOR ADDITIONAL DETAIL.

PAINT COLOR SHALL BE FEDERAL STANDARD COLOR NO. 26293 LIGHT GRAY.

ALL EXPOSED STEEL SURFACES UNDERNEATH THE BRIDGE ARE TO BE CLEANED AND PAINTED. THE SURFACES INCLUDE GIRDERS, CROSS FRAMING, DIAPHRAGMS, STIFFENERS, BEARINGS AND CONNECTIONS.

THERE ARE 35 DIAPHRAGMS ON STRUCTURE B-5-218 THAT SHALL BE PAINTED.

TOTAL ESTIMATED QUANTITIES

CATEGORY NO.	ITEM NO.	BID ITEMS	UNIT	TOTAL
0030	517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE B-5-218	LS	1
0030	517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-5-218	LS	1
0030	517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	1

FOR INFORMATION ONLY: APPROXIMATELY 10,000 SF OF STRUCTURAL STEEL

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-218			
DRAWN BY	JBS	PLANS CK'D.	ESG
CROSS-SECTION, GENERAL NOTES & QUANTITIES			SHEET 2 OF 2

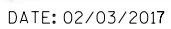
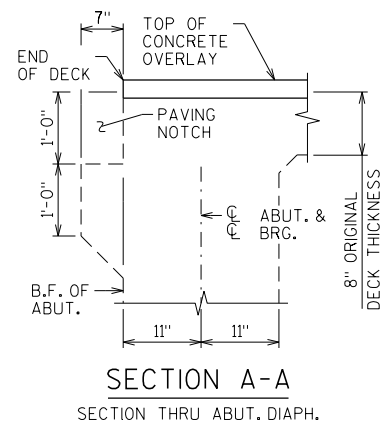
<u>MATERIAL PROPERTIES:</u>		
CONCRETE MASONRY:	OVERLAY DECKS	f'c = 4,000 P.S.I.
	ALL OTHER	f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60:		f'y = 60,000 P.S.I.

<u>IH 43</u>	<u>DANZ AVE</u>
A.D.T. = 53,900 (2036)	A.D.T. = 5,000 (2036)
R.D.S. = 70 MPH	R.D.S. = 35 MPH

R S.B. IH 43
 PI = STA. 743'S'+11.862
 Δ = 18°-55'-30.29"
 D = 1°-30'-00"
 T = 636.635'
 L = 1261.672'
 R = 3819.719'
 SE = 4.0%
 RO = 201'
 PC = STA. 736'S'+75.228
 PT = STA. 749'S'+36.902

1. GENERAL PLAN & ELEVATION
2. CROSS SECTION, QUANTITIES & NOTES

NO.	DATE	REVISION	BY
 exp U.S. Services Inc. Milwaukee, WI BUILDINGS • EARTH & ENVIRONMENT • ENERGY INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED _____		_____ DATE	
CHIEF STRUCTURES DESIGN ENGINEER			
STRUCTURE B-5-219			
IH 43 SB OVER DANZ AVENUE			
COUNTY	BROWN	TOWN/CITY/VILLAGE GREEN BAY	
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY	YC	DESIGN CK'D.	VCP
		DRAWN BY	JUG/YC
		PLANS CK'D.	VCP
GENERAL PLAN & ELEVATION		SHEET 1 OF 2	



BRIDGE OFFICE: WILLIAM DREHER, P.E.
(608) 266-8489

CONSULTANT: VINOD PATEL, P.E.
(312) 616-7395

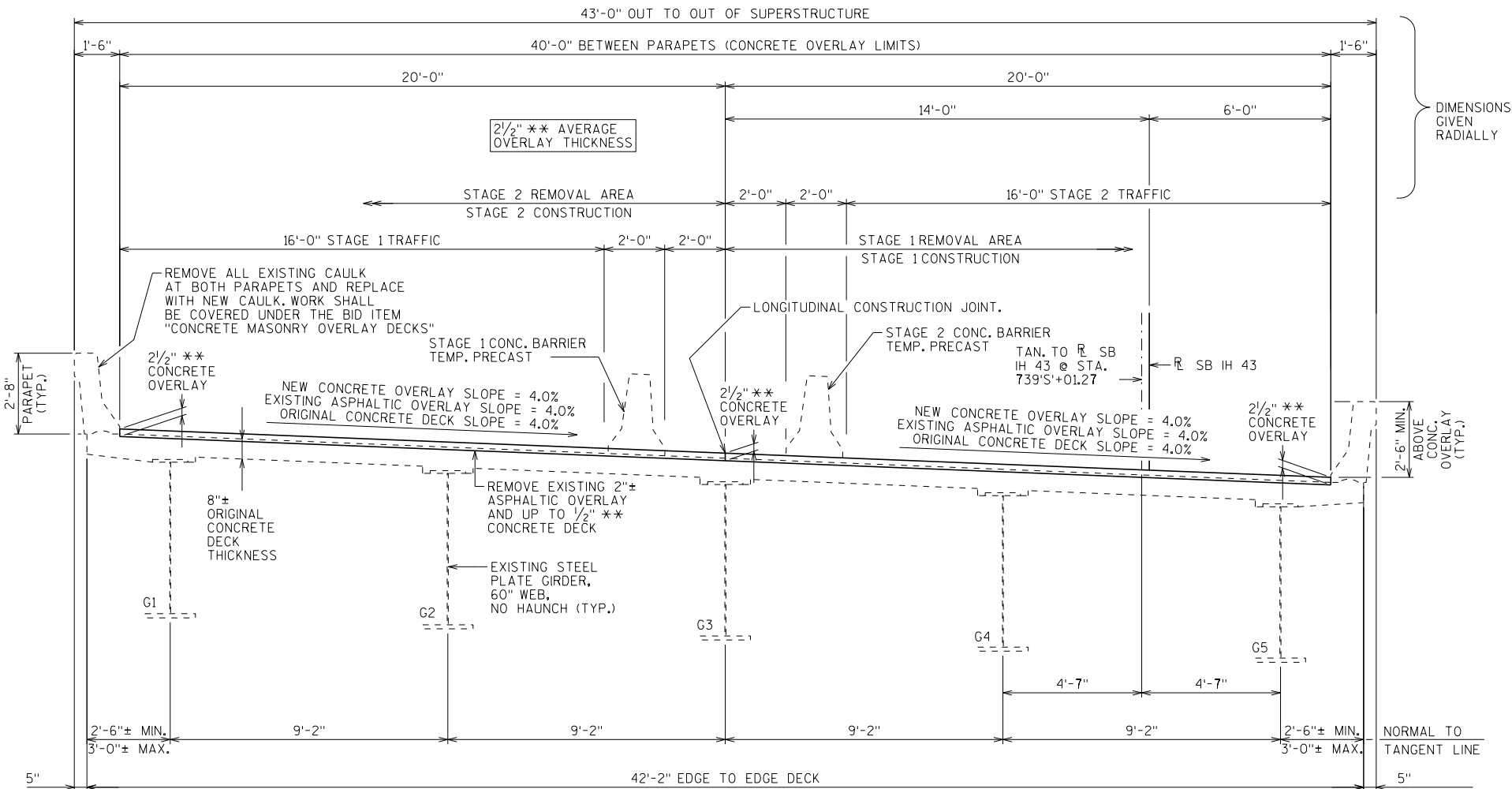
TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	E. ABUT.	W. ABUT.	SUPER.	TOTAL
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	573	573
502.3210	PIGMENTED SURFACE SEALER	SY	11	11	98	120
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	115	115
509.0302	PREPARATION DECKS TYPE 2	SY	-	-	46	46
509.0500	CLEANING DECKS	SY	-	-	573	573
509.1500	CONCRETE SURFACE REPAIR	SF	18	9	22	49
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	1	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	-	-	49	49
509.9010.S.12	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-219	SY	-	-	573	573
509.9050.S	CLEANING PARAPETS	LF	33	33	258	324
517.1800.S.03	STRUCTURE REPAINTING RECYCLED ABRASIVE B-5-219	LS	-	-	-	1
517.4500.S.03	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-5-219	LS	-	-	-	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	-	-	-	1

BID ITEM "CONCRETE MASONRY OVERLAY DECKS" ALSO INCLUDES CONCRETE FOR:
"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR".
THE QUANTITIES OF "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" ARE
BASED ON AN INFRARED THERMOGRAPHIC DECK SURVEY REPORT.

GENERAL NOTES

- DRAWINGS SHALL NOT BE SCALED.
- DIMENSIONS OF EXISTING STRUCTURE MEMBERS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
- THE EXISTING BITUMINOUS ASPHALTIC OVERLAY SHALL BE REMOVED FROM THE BRIDGE DECK UNDER BID ITEM "REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-219".
- AFTER REMOVING EXISTING ASPHALTIC OVERLAY, UP TO 1/2" OF CONCRETE SHALL BE REMOVED FROM ORIGINAL BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".
- "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", "CONCRETE SURFACE REPAIR", AND "FULL-DEPTH DECK REPAIR" AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.
- ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1 INCH DEEP SAW CUT.
- PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 2 1/2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS AS GIVEN ON THE PLANS. IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.
- ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY AT ABUTMENTS IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".
- UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND MINIMUM 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.
- CLEAN THE INSIDE FACES AND TOP SURFACE OF THE EXISTING CONCRETE PARAPETS. PARAPET JOINTS SHALL BE CLEANED AND RE-SEALED WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. INCLUDE IN BID ITEM "CLEANING PARAPETS".
- APPLY "PROTECTIVE SURFACE TREATMENT" TO THE EXPOSED DECK SURFACE OF THE NEW CONCRETE OVERLAY BETWEEN PARAPETS.
- APPLY "PIGMENTED SURFACE SEALER" ON THE INSIDE AND TOP FACES OF PARAPETS, INCLUDING PARAPETS ON ABUTMENT WINGS.



CROSS SECTION THRU DECK LOOKING WEST

** THE OVERLAY THICKNESS INCLUDES 1/2" THICKNESS OF CONCRETE REMOVAL FROM ORIGINAL CONCRETE DECK.

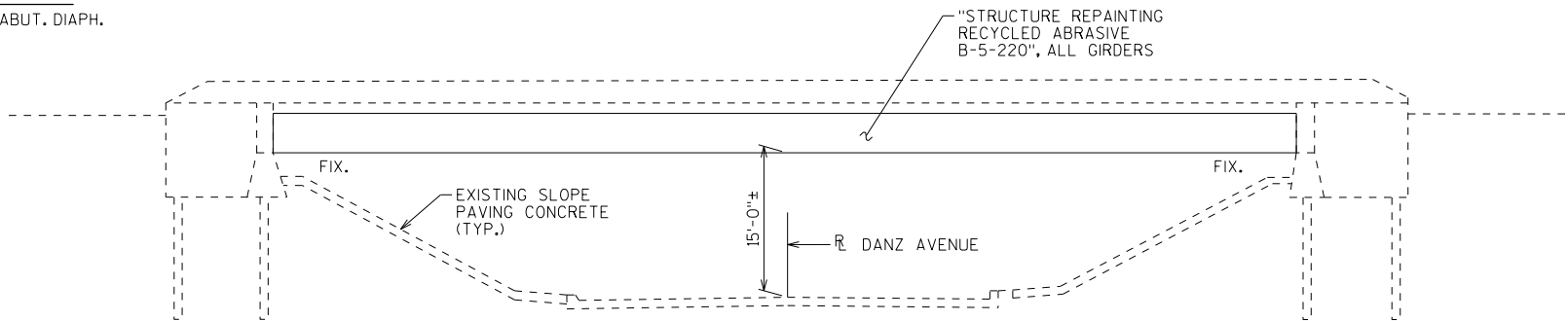
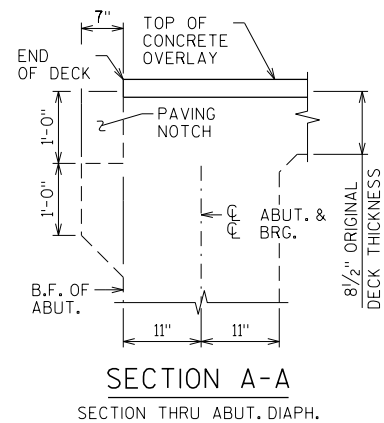
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-219			
DRAWN BY YC		PLANS CK'D. VCP	
CROSS SECTION, QUANTITIES & NOTES			SHEET 2 OF 2

PI = STA. 743'N+71.193
 Δ = 18°-55'-30.29"
D = 1°-30'-00"
L = 636.635'
T = 1261.672'
R = 3819.719'
SE = 4.0%
RO = 201'
PC = STA. 737'N+34.559
PT = STA. 749'N+96.231

A.D.T. = 5,000
R.D.S. = 35 MPH

BRIDGE OFFICE: WILLIAM DREHER, P.E.
(608) 266-8489

CONSULTANT: VINOD PATEL, P.E.
(312) 616-7395



NORMAL TO DANZ AVENUE
(LOOKING SOUTH)

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	E. ABUT.	W. ABUT.	SUPER.	TOTAL
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	669	669
502.3210	PIGMENTED SURFACE SEALER	SY	12	12	88	112
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	134	134
509.0302	PREPARATION DECKS TYPE 2	SY	-	-	54	54
509.0500	CLEANING DECKS	SY	-	-	669	669
509.1500	CONCRETE SURFACE REPAIR	SF	-	4	4	8
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	1	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	-	-	57	57
509.9010.S.13	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-220	SY	-	-	669	669
509.9050.S	CLEANING PARAPETS	LF	34	34	232	300
517.1800.S.04	STRUCTURE REPAINTING RECYCLED ABRASIVE B-5-220	LS	-	-	-	1
517.4500.S.04	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-5-220	LS	-	-	-	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	-	-	-	1
606.0100	RIPRAP LIGHT	CY	1	-	-	1

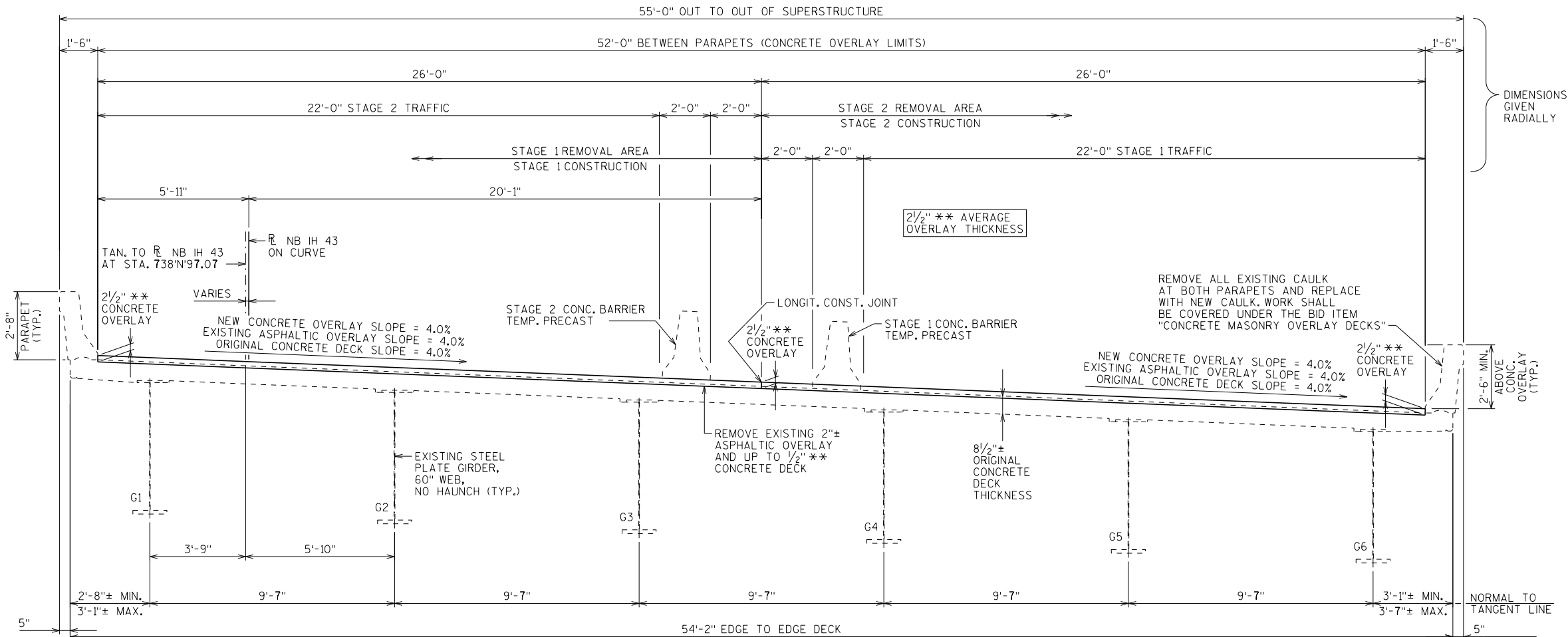
BID ITEM "CONCRETE MASONRY OVERLAY DECKS" ALSO INCLUDES CONCRETE FOR:
"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR".
THE QUANTITIES OF "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" ARE
BASED ON AN INFRARED THERMOGRAPHIC DECK SURVEY REPORT.

GENERAL NOTES

- DRAWINGS SHALL NOT BE SCALED.
- DIMENSIONS OF EXISTING STRUCTURE MEMBERS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
- THE EXISTING BITUMINOUS ASPHALTIC OVERLAY SHALL BE REMOVED FROM THE BRIDGE DECK UNDER BID ITEM "REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-220".
- AFTER REMOVING EXISTING ASPHALTIC OVERLAY, UP TO 1/2" OF CONCRETE SHALL BE REMOVED FROM ORIGINAL BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".
- "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", "CONCRETE SURFACE REPAIR", AND "FULL-DEPTH DECK REPAIR" AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.
- ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1 INCH DEEP SAW CUT.
- PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 2 1/2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS AS GIVEN ON THE PLANS. IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.
- ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY AT ABUTMENTS IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".
- UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND MINIMUM 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.
- CLEAN THE INSIDE FACES AND TOP SURFACE OF THE EXISTING CONCRETE PARAPETS. PARAPET JOINTS SHALL BE CLEANED AND RE-SEALED WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. INCLUDE IN BID ITEM "CLEANING PARAPETS".
- APPLY "PROTECTIVE SURFACE TREATMENT" TO THE EXPOSED DECK SURFACE OF THE NEW CONCRETE OVERLAY BETWEEN PARAPETS.
- APPLY "PIGMENTED SURFACE SEALER" ON THE INSIDE AND TOP FACES OF PARAPETS, INCLUDING PARAPETS ON ABUTMENT WINGS.

STATE PROJECT NUMBER

1227-08-73



CROSS SECTION THRU DECK LOOKING WEST

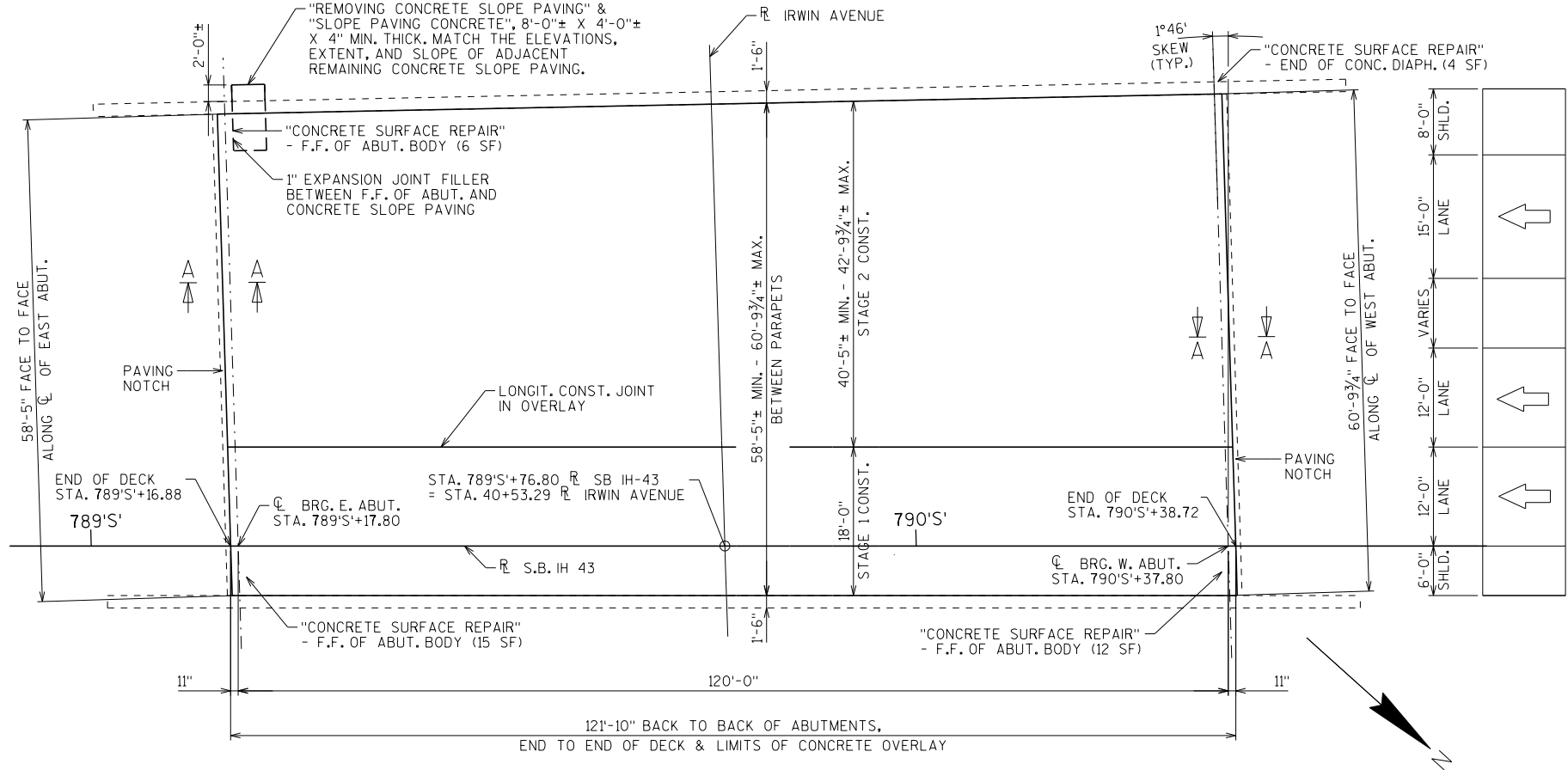
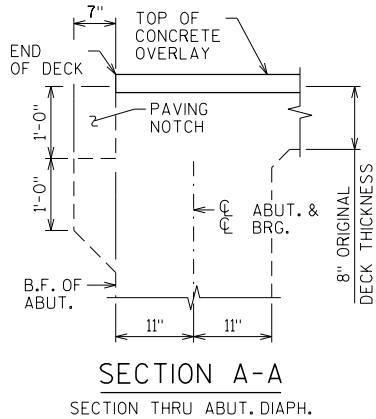
** THE OVERLAY THICKNESS INCLUDES 1/2" THICKNESS OF CONCRETE REMOVAL FROM ORIGINAL CONCRETE DECK.

NO.	DATE	REVISION	BY
		STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
		STRUCTURE B-5-220	
		DRAWN BY YC	PLANS CK'D. VCP
		CROSS SECTION, QUANTITIES & NOTES	SHEET 2 OF 2

\\PCHAPP004\AM\VAUL\I.D--TRANS_07\TDC\WIS\00214891-A0\STRUCT\CAD\21B05022\NIA EXP\SHEET\01GP2IA001.SHT
CHUNYM
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8



PLAN
(SINGLE SPAN STEEL GIRDER, CONCRETE OVERLAY)

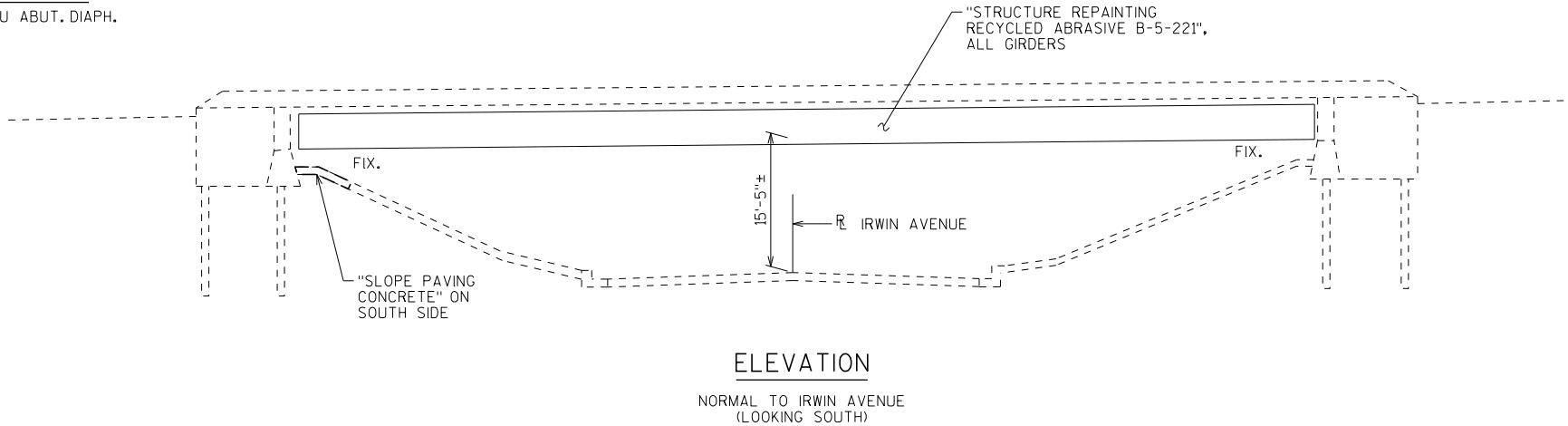
DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HS20
INVENTORY RATING: HS21
OPERATING RATING: HS36
WISCONSIN STANDARD PERMIT VEHICLE (Wis-SPV): 240 KIPS

MATERIAL PROPERTIES:
CONCRETE MASONRY: OVERLAY DECKS f'c = 4,000 P.S.I.
ALL OTHER f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60: f_y = 60,000 P.S.I.

TRAFFIC VOLUME

IH 43	IRWIN AVE
A.D.T. = 53,900 (2036)	A.D.T. = 3,000 (2036)
R.D.S. = 70 MPH	R.D.S. = 30 MPH



ELEVATION

NORMAL TO IRWIN AVENUE
(LOOKING SOUTH)

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE:	CONSULTANT:
WILLIAM DREHER, P.E. (608) 266-8489	VINOD PATEL, P.E. (312) 616-7395

STATE PROJECT NUMBER

1227-08-73



DATE: 02/03/2017

LIST OF DRAWINGS

- GENERAL PLAN & ELEVATION
- CROSS SECTION, QUANTITIES & NOTES

NO.	DATE	REVISION	BY
 exp U.S. Services Inc. Milwaukee, WI BUILDINGS • EARTH & ENVIRONMENT • ENERGY INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ACCEPTED _____ CHIEF STRUCTURES DESIGN ENGINEER DATE _____ STRUCTURE B-5-221 IH 43 SB OVER IRWIN AVENUE COUNTY BROWN TOWN/CITY/VILLAGE GREEN BAY DESIGN SPEC. REHABILITATION N/A DESIGNED BY YC DESIGN CK'D. VCP DRAWN BY JJG/YC PLANS CK'D. VCP GENERAL PLAN & ELEVATION SHEET 1 OF 2			

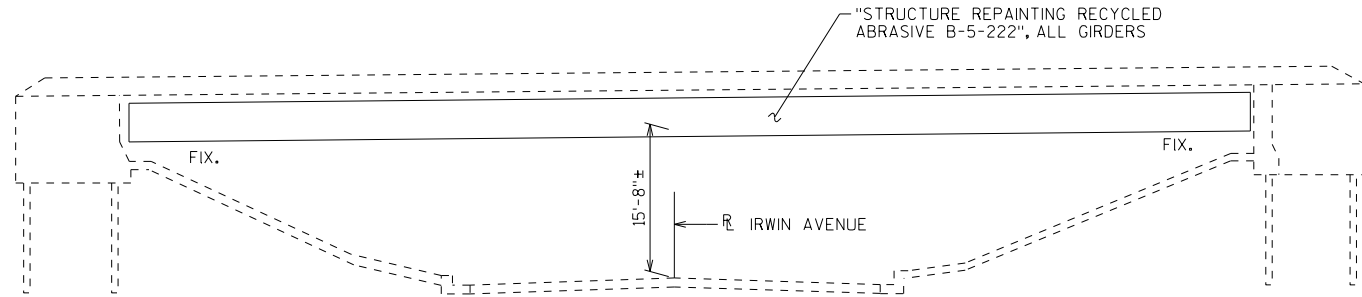
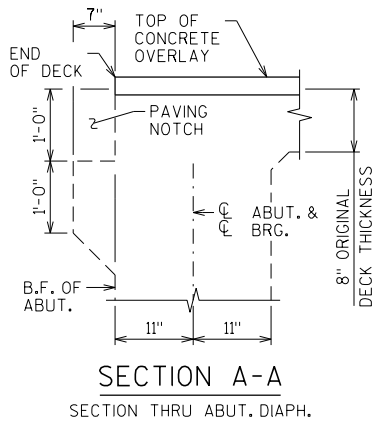
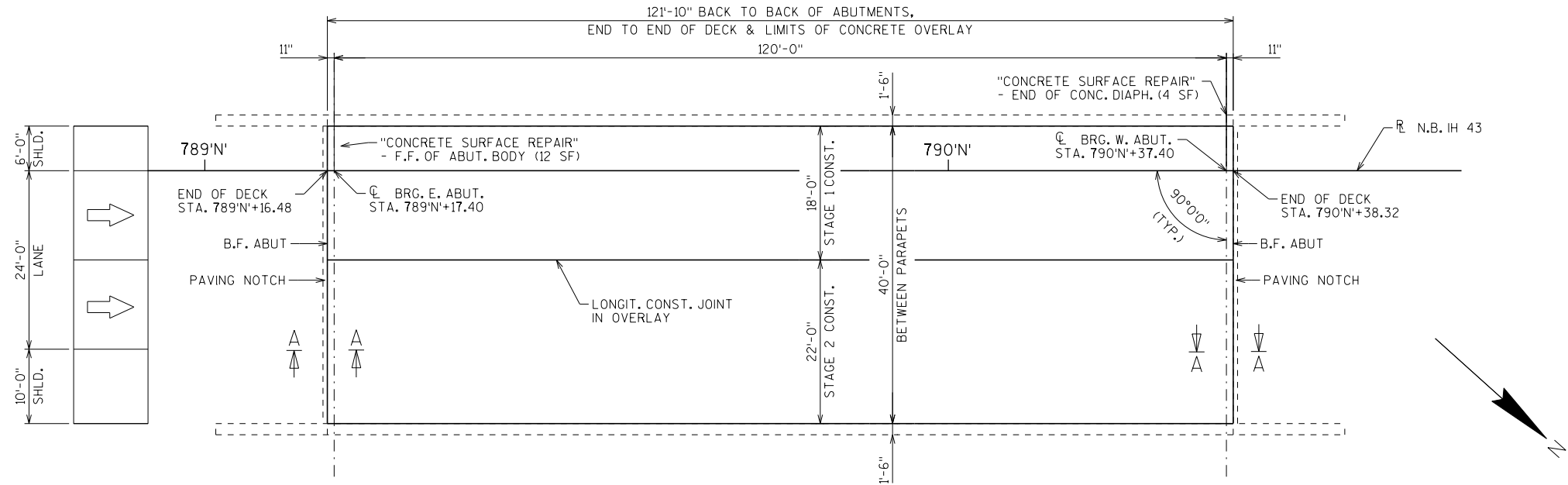
8

FILENAME
SCALE



BID ITEM "CONCRETE MASONRY OVERLAY DECKS" ALSO INCLUDES CONCRETE FOR:
 "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR".
 THE QUANTITIES OF "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" ARE
 BASED ON AN INFRARED THERMOGRAPHIC DECK SURVEY REPORT.

APPLY "PIGMENTED SURFACE SEALER" ON THE INSIDE AND TOP FACES OF PARAPETS, INCLUDING PARAPETS ON ABUTMENT WINGS.



DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HS20
INVENTORY RATING: HS22
OPERATING RATING: HS37
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 240 KIPS

MATERIAL PROPERTIES:
CONCRETE MASONRY: OVERLAY DECKS f'c = 4,000 P.S.I.
ALL OTHER f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60: fy = 60,000 P.S.I.

TRAFFIC VOLUME

IH 43
A.D.T. = 53,900 (2036)
R.D.S. = 70 MPH

IRWIN AVE
A.D.T. = 3,000 (2036)
R.D.S. = 30 MPH

LIST OF DRAWINGS

- GENERAL PLAN & ELEVATION
- CROSS SECTION, QUANTITIES & NOTES



V. Patel
DATE: 02/03/2017

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE: WILLIAM DREHER, P.E. (608) 266-8489
CONSULTANT: VINOD PATEL, P.E. (312) 616-7395

NO.	DATE	REVISION	BY
exp. exp U.S. Services Inc. Milwaukee, WI BUILDINGS • EARTH & ENVIRONMENT • ENERGY INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED _____ CHIEF STRUCTURES DESIGN ENGINEER DATE			
STRUCTURE B-5-222			
IH 43 NB OVER IRWIN AVENUE			
COUNTY	BROWN	TOWN/CITY/VILLAGE	GREEN BAY
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY	YC	DESIGN CK'D.	VCP
DRAWN BY	JJG/YC	PLANS CK'D.	VCP
GENERAL PLAN & ELEVATION			SHEET 1 OF 2

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TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	E. ABUT.	W. ABUT.	SUPER.	TOTAL
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	542	542
502.3210	PIGMENTED SURFACE SEALER	SY	10	10	93	113
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	108	108
509.0302	PREPARATION DECKS TYPE 2	SY	-	-	43	43
509.0500	CLEANING DECKS	SY	-	-	542	542
509.1500	CONCRETE SURFACE REPAIR	SF	-	4	-	4
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	1	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	-	-	54	54
509.9010.S.15	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-222	SY	-	-	542	542
509.9050.S	CLEANING PARAPETS	LF	30	30	244	304
517.1800.S.06	STRUCTURE REPAINTING RECYCLED ABRASIVE B-5-222	LS	-	-	-	1
517.4500.S.06	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-5-222	LS	-	-	-	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	-	-	-	1

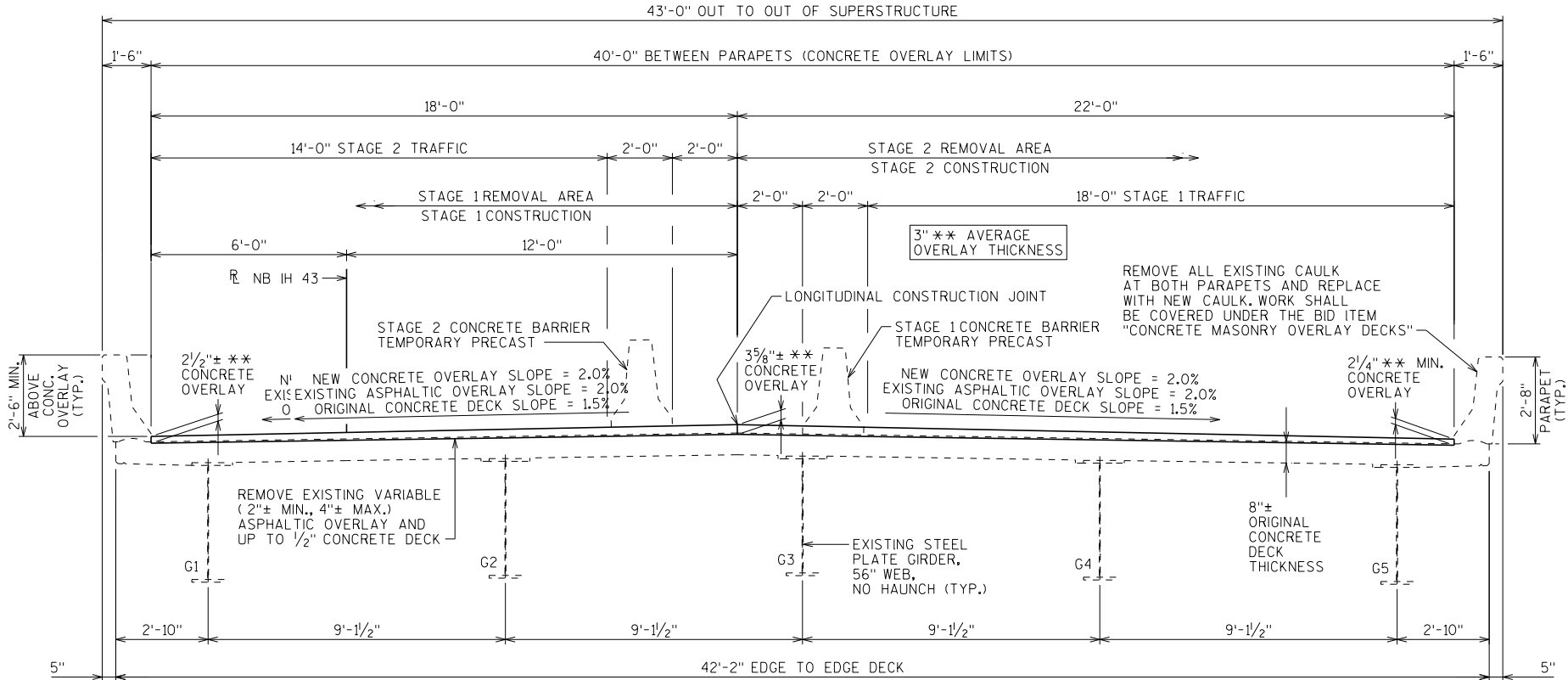
BID ITEM "CONCRETE MASONRY OVERLAY DECKS" ALSO INCLUDES CONCRETE FOR:
"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR".
THE QUANTITIES OF "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" ARE
BASED ON AN INFRARED THERMOGRAPHIC DECK SURVEY REPORT.

STATE PROJECT NUMBER

1227-08-73

GENERAL NOTES

- DRAWINGS SHALL NOT BE SCALED.
- DIMENSIONS OF EXISTING STRUCTURE MEMBERS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
- THE EXISTING BITUMINOUS ASPHALTIC OVERLAY SHALL BE REMOVED FROM THE BRIDGE DECK UNDER BID ITEM "REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-222".
- AFTER REMOVING EXISTING ASPHALTIC OVERLAY, UP TO 1/2" OF CONCRETE SHALL BE REMOVED FROM ORIGINAL BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".
- "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", "CONCRETE SURFACE REPAIR", AND "FULL-DEPTH DECK REPAIR" AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.
- ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1 INCH DEEP SAW CUT.
- PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 2 1/4" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS AS GIVEN ON THE PLANS. IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.
- ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY AT ABUTMENTS IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".
- UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND MINIMUM 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.
- CLEAN THE INSIDE FACES AND TOP SURFACE OF THE EXISTING CONCRETE PARAPETS. PARAPET JOINTS SHALL BE CLEANED AND RE-SEALED WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. INCLUDE IN BID ITEM "CLEANING PARAPETS".
- APPLY "PROTECTIVE SURFACE TREATMENT" TO THE EXPOSED DECK SURFACE OF THE NEW CONCRETE OVERLAY BETWEEN PARAPETS.
- APPLY "PIGMENTED SURFACE SEALER" ON THE INSIDE AND TOP FACES OF PARAPETS, INCLUDING PARAPETS ON ABUTMENT WINGS.



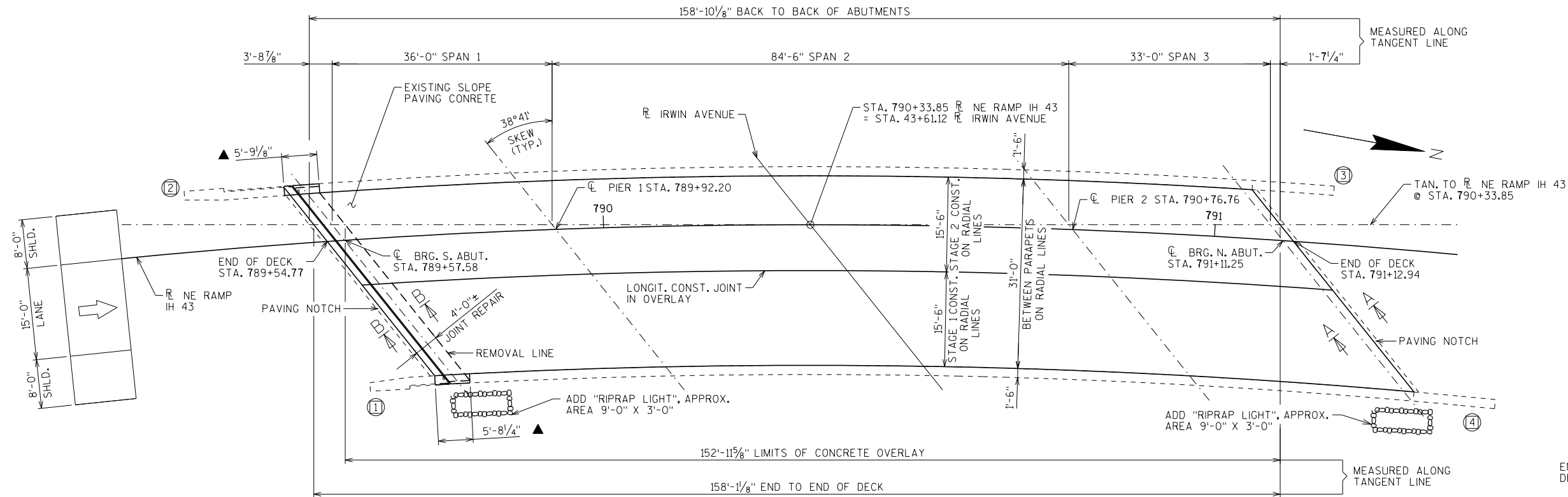
CROSS SECTION THRU DECK LOOKING WEST

** THE OVERLAY THICKNESS INCLUDES 1/2" THICKNESS OF CONCRETE REMOVAL FROM ORIGINAL CONCRETE DECK.

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NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-222			
		DRAWN BY YC	PLANS CK'D. VCP
CROSS SECTION, QUANTITIES & NOTES			SHEET 2 OF 2

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PLAN

(3-SPAN PRESTRESSED CONCRETE GIRDER, CONCRETE OVERLAY)

- ⊖ INDICATES WINGWALL NUMBER
▲ PARAPET REPLACEMENT AREA.
SEE SHEET -- FOR DETAILS.

DESIGN DATA

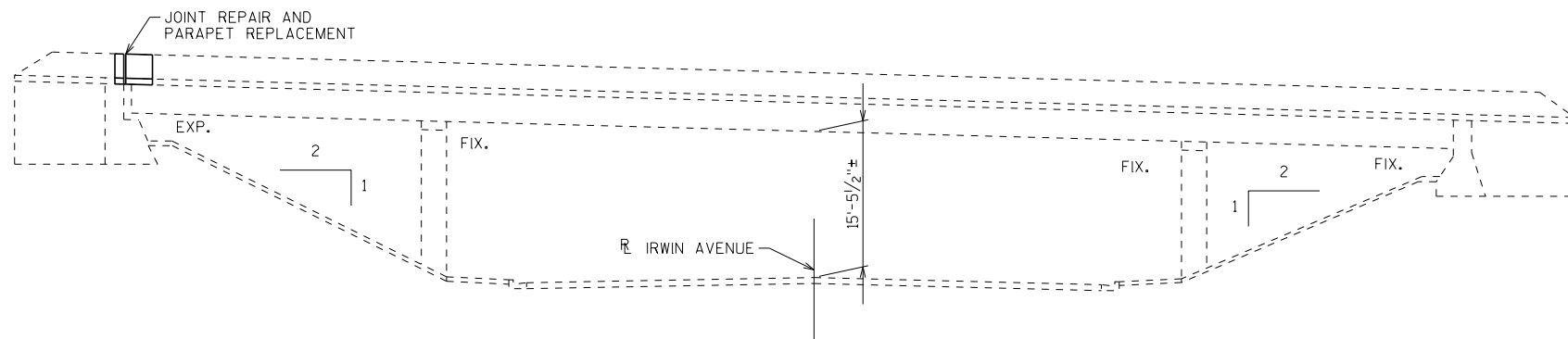
LIVE LOAD:
DESIGN LOADING: HS20
INVENTORY RATING: HS22
OPERATING RATING: HS37
WISCONSIN STANDARD PERMIT VEHICLE (Wis-SPV): 250 KIPS
MATERIAL PROPERTIES:
CONCRETE MASONRY: OVERLAY DECKS $f'_c = 4,000$ P.S.I.
ALL OTHER $f'_c = 3,500$ P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60: $f_y = 60,000$ P.S.I.

TRAFFIC VOLUME

RAMP IH 43 NB - NB WEBSTER IRWIN AVE
A.D.T. = 22,100 (2036) A.D.T. = 5,000 (2036)
R.D.S. = 70 MPH R.D.S. = 30 MPH

CURVE DATA

R N.E. RAMP IH 43
PI = STA. 788+57.24
 $\Delta = 53^\circ-21'-15.1''$
D = 5°-00'-00"
T = 575.76'
L = 1067.08'
R = 1145.92'
SE = 5.0%
RO = 150'

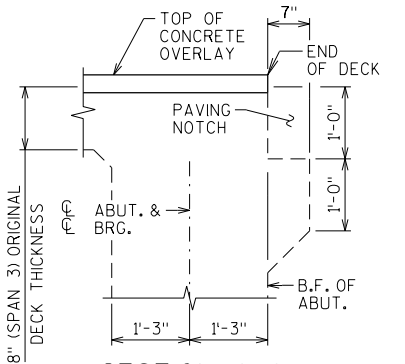


ELEVATION

NORMAL TO IRWIN AVENUE
(LOOKING SOUTHWEST)

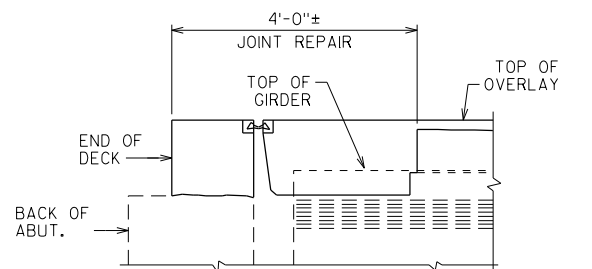
STATE PROJECT NUMBER

1227-08-73



SECTION A-A

SECTION THRU ABUT. DIAPH.



SECTION B-B

SEE SHEET -- FOR DETAILS.

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. CROSS SECTION, QUANTITIES & NOTES
3. JOINT REPAIR
4. EXPANSION DEVICE
5. JOINT REPAIR - BILL OF BARS
6. COVER PLATE DETAILS



V. Patel

DATE: 02/03/2017

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE: WILLIAM DREHER, P.E. (608) 266-8489
CONSULTANT: VINOD PATEL, P.E. (312) 616-7395

NO.	DATE	REVISION	BY
 exp U.S. Services Inc. Milwaukee, WI BUILDINGS • EARTH & ENVIRONMENT • ENERGY INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED _____		CHIEF STRUCTURES DESIGN ENGINEER	DATE _____
STRUCTURE B-5-223			
RAMP IH 43 NB-WEBSTER OVER IRWIN AVENUE			
COUNTY BROWN		TOWN/CITY/VILLAGE GREEN BAY	
DESIGN SPEC. N/A REHABILITATION			
DESIGNED BY YC	DESIGN CK'D. VCP	DRAWN BY JJG/YC	PLANS CK'D. VCP
GENERAL PLAN & ELEVATION		SHEET 1 OF 6	

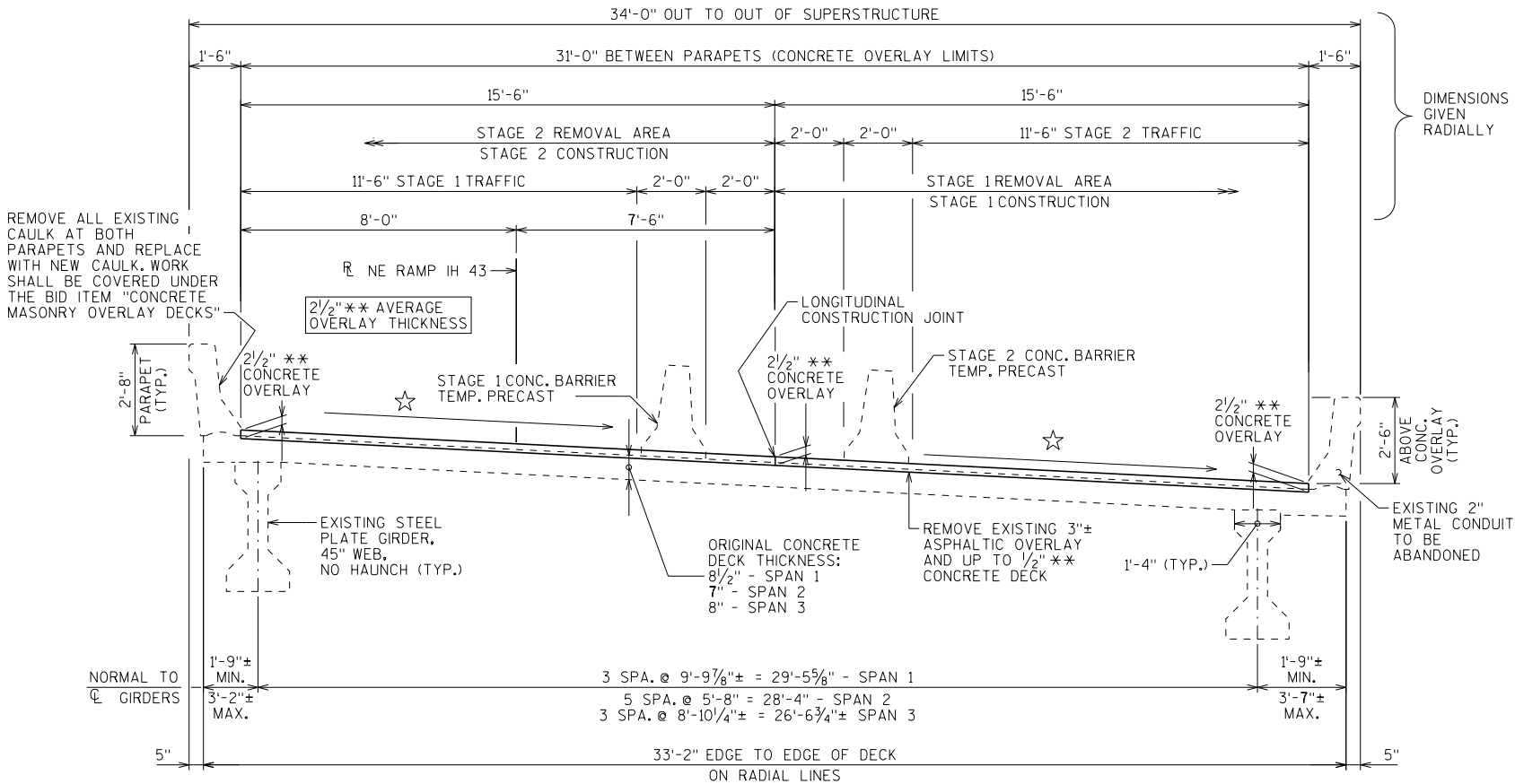
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TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	S. ABUT.	N. ABUT.	SUPER.	TOTAL
502.3100.06	EXPANSION DEVICE B-5-223	LS	-	-	-	1
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	545	545
502.3210	PIGMENTED SURFACE SEALER	SY	10	10	119	139
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	48	-	-	48
502.6500	PROTECTIVE COATING CLEAR	GAL	2	-	-	2
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,840	-	-	1,840
505.0904	BAR COUPLERS NO. 4	EACH	4	-	-	4
505.0905	BAR COUPLERS NO. 5	EACH	3	-	-	3
505.0906	BAR COUPLERS NO. 6	EACH	11	-	-	11
505.0908	BAR COUPLERS NO. 8	EACH	6	-	-	6
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	55	55
509.0302	PREPARATION DECKS TYPE 2	SY	-	-	22	22
509.0500	CLEANING DECKS	SY	-	-	527	527
509.1000	JOINT REPAIR	SY	-	-	21	21
509.1500	CONCRETE SURFACE REPAIR	SF	-	-	6	6
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	1	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	-	-	50	50
509.9010.S.16	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-223	SY	-	-	527	527
509.9050.S	CLEANING PARAPETS	LF	31	28	305	364
606.0100	RIPRAP LIGHT	CY	1	1	-	2
SPV.0060.01	CLEANING AND PAINTING BEARINGS	EACH	4	-	-	4
SPV.0090.01	CLEANING CONCRETE GIRDER ENDS	LF	3	-	-	3
	NON-BID ITEMS					
	BRIDGE SEAT PROTECTION					

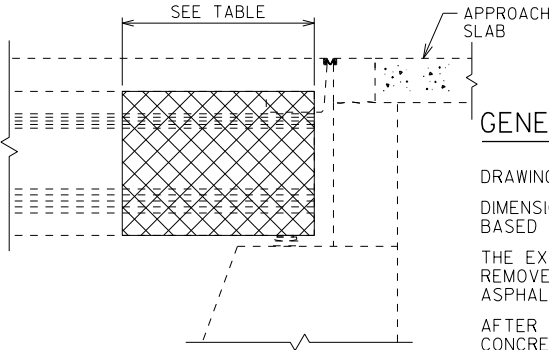
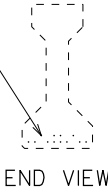
BID ITEM "CONCRETE MASONRY OVERLAY DECKS" ALSO INCLUDES CONCRETE FOR:
"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", "FULL-DEPTH DECK REPAIR", AND "JOINT REPAIR".
THE QUANTITIES OF "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" ARE
BASED ON AN INFRARED THERMOGRAPHIC DECK SURVEY REPORT.



CROSS SECTION THRU DECK LOOKING NORTH

- ☆ NEW CONCRETE OVERLAY SLOPE = 5.0%
EXISTING ASPHALTIC OVERLAY SLOPE = 5.0%
ORIGINAL CONCRETE DECK SLOPE = 5.0%
- ** THE OVERLAY THICKNESS INCLUDES 1/2" THICKNESS OF CONCRETE REMOVAL FROM ORIGINAL CONCRETE DECK.

BLAST CLEAN ALL EXPOSED STEEL REINFORCEMENT AND STEEL PRESTRESSING STRANDS TO REMOVE ALL RUST AND CORROSION PRIOR TO PAINTING.



PART LONGITUDINAL SECTION
(SOUTH ABUT.)

CLEANING CONCRETE GIRDER ENDS (L.F.)

	G1	G2	G3	G4 (E. EXT. GIR.)
SOUTH ABUT.	-	-	-	3

LEGEND

DENOTES AREAS OF BID ITEM "CLEANING CONCRETE GIRDER ENDS". SEE NOTES.

NOTES:

- REMOVE ANY LOOSE, DELAMINATED, OR DETERIORATED CONCRETE FROM THE END OF CONCRETE GIRDERS.
- CLEAN AND PAINT ANY EXPOSED STEEL REINFORCEMENT AND STEEL PRESTRESSING STRANDS.
- VERIFY LENGTH OF CLEANING WITH ENGINEER.

PRESTRESSED GIRDER REPAIRS

STATE PROJECT NUMBER

1227-08-73

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS OF EXISTING STRUCTURE MEMBERS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THE EXISTING BITUMINOUS ASPHALTIC OVERLAY SHALL BE REMOVED FROM THE BRIDGE DECK UNDER BID ITEM "REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-223".

AFTER REMOVING EXISTING ASPHALTIC OVERLAY, UP TO 1/2" OF CONCRETE SHALL BE REMOVED FROM ORIGINAL BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", "CONCRETE SURFACE REPAIR", AND "FULL-DEPTH DECK REPAIR" AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.

ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1 INCH DEEP SAW CUT.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 2 1/2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS AS GIVEN ON THE PLANS. IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY OR JOINT REPAIRS AT ABUTMENTS IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

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

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

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

APPLY BRIDGE SEAT PROTECTION, AS PER SECTION 502.3.12 OF THE STANDARD SPECIFICATIONS, TO THE TOP SURFACE OF SOUTH ABUTMENT BELOW EXPANSION DEVICE. POWER WASH AND ADEQUATELY DRY SURFACES BEFORE APPLICATION. WORK TO BE INCIDENTAL TO "JOINT REPAIR".

COAT ALL EXPOSED SURFACES OF THE LAST 5'-0" OF GIRDERS (SPAN 1 AT SOUTH ABUTMENT END ONLY) WITH "PROTECTIVE COATING CLEAR" AS DIRECTED BY THE ENGINEER. APPLY AT A RATE OF ONE GALLON PER 200 SF PER THE STANDARD SPECIFICATION 502.3.15 PARA. 4.

CLEAN AND PAINT ALL BEARINGS AT SOUTH ABUTMENT. SEE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING BEARINGS".

CLEAN THE INSIDE FACES AND TOP SURFACE OF THE EXISTING CONCRETE PARAPETS. PARAPET JOINTS SHALL BE CLEANED AND RE-SEALED WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. INCLUDE IN BID ITEM "CLEANING PARAPETS".

APPLY "PROTECTIVE SURFACE TREATMENT" TO THE EXPOSED DECK SURFACE OF THE NEW CONCRETE OVERLAY BETWEEN PARAPETS AND EXPOSED TOP SURFACE OF JOINT REPAIR.

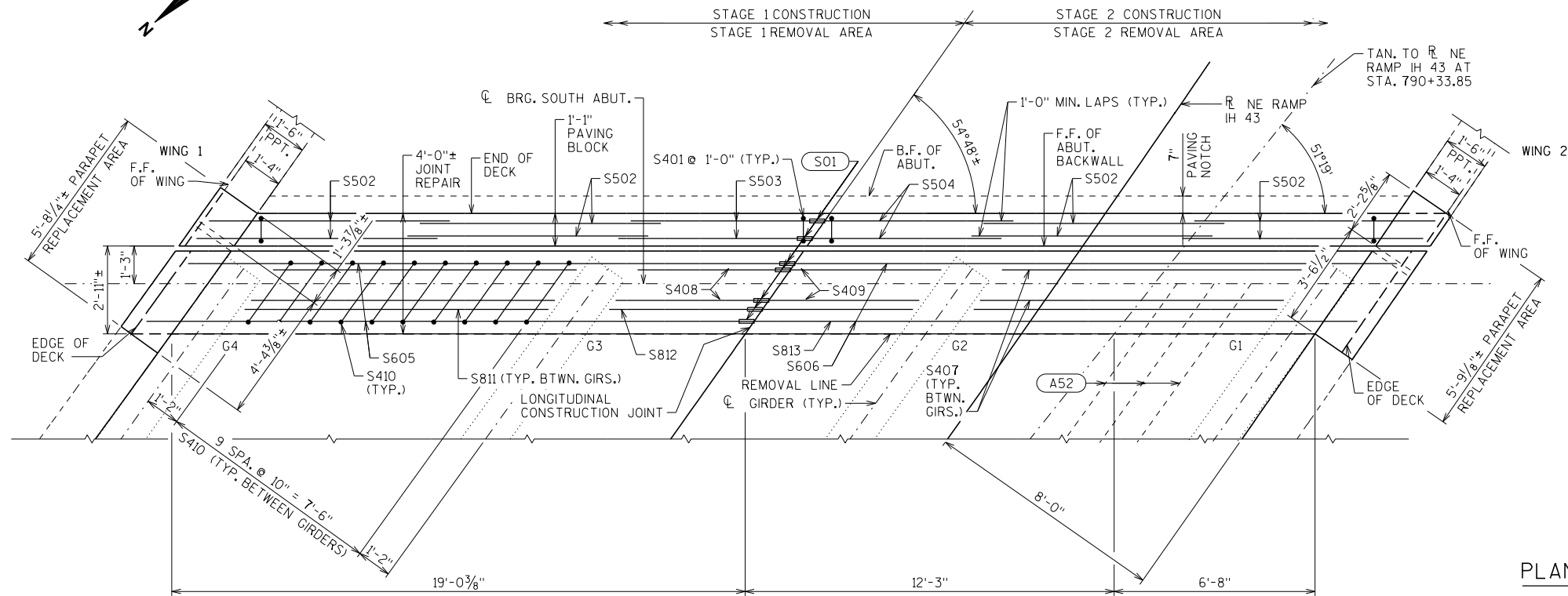
APPLY "PIGMENTED SURFACE SEALER" ON THE INSIDE AND TOP FACES OF PARAPETS, INCLUDING PARAPETS ON ABUTMENT WINGS.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-223			
DRAWN BY YC		PLANS CK'D. VCP	
CROSS SECTION, QUANTITIES & NOTES			SHEET 2 OF 6

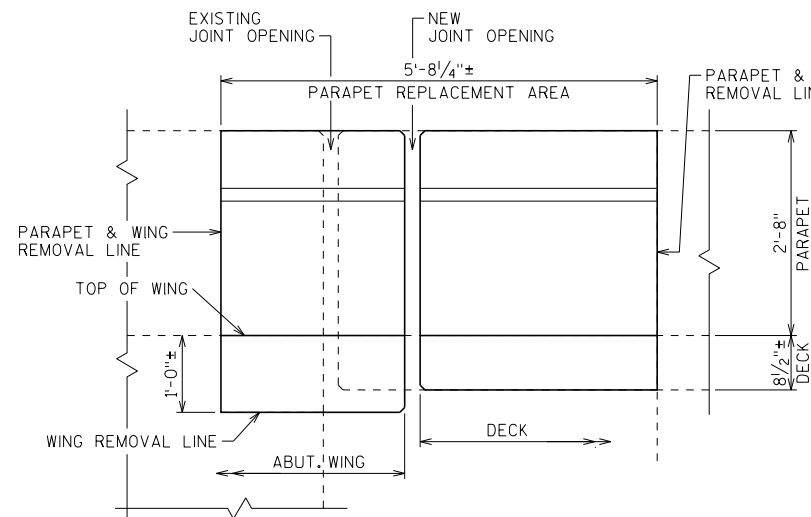
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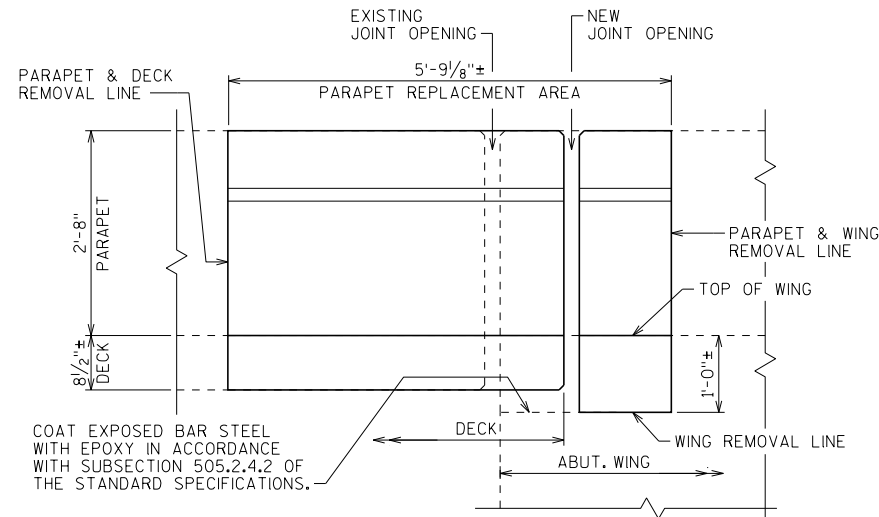


SOUTH ABUTMENT "JOINT REPAIR" PLAN



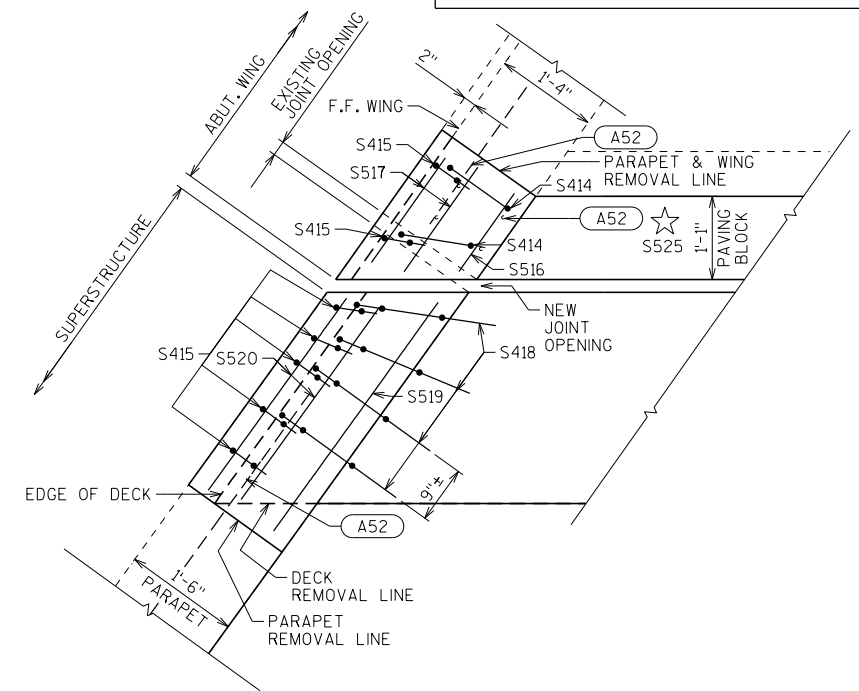
ELEVATION OF NEW WING CORNER 1

SHOWING NEW CONCRETE AREAS FOR "JOINT REPAIR"
(LOOKING AT OUTSIDE FACE OF PARAPET)

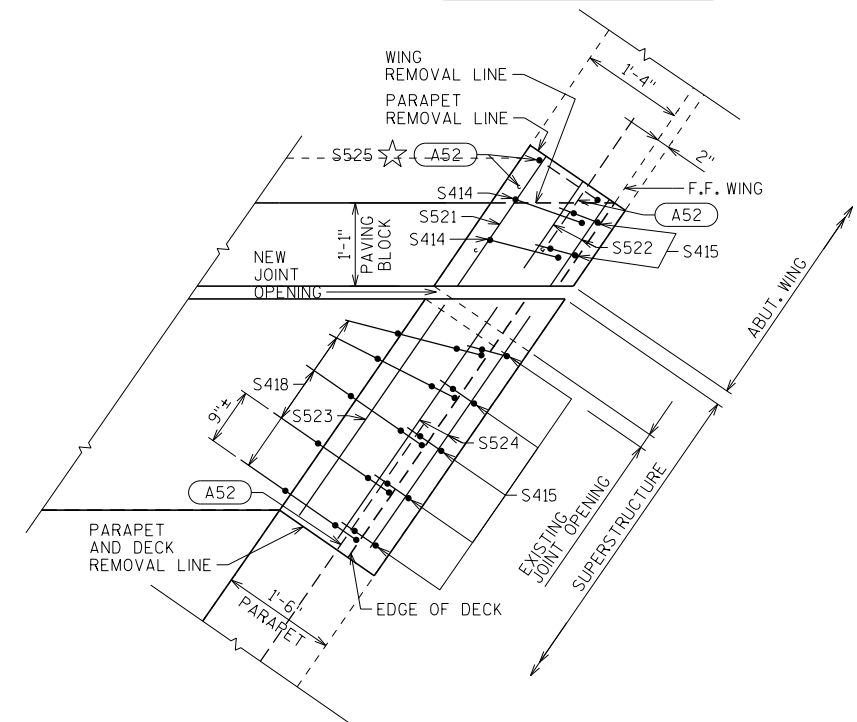


ELEVATION OF NEW WING CORNER 2

SHOWING NEW CONCRETE AREAS FOR "JOINT REPAIR"
(LOOKING AT OUTSIDE FACE OF PARAPET)



PLAN DETAIL OF PARAPET REPLACEMENT AREA
AT WING CORNER 1



PLAN DETAIL OF PARAPET REPLACEMENT AREA
AT WING CORNER 2

NOTES

ALL REMOVAL LINES SHALL BE
DEFINED BY A 1" DEEP SAW-CUT.

REBUILD NEW PARAPET, WING AND
DECK AREAS TO MATCH THE
EXISTING PARAPET, WING AND DECK.
SEE SHEET 5 FOR NEW PARAPET
DETAILS.

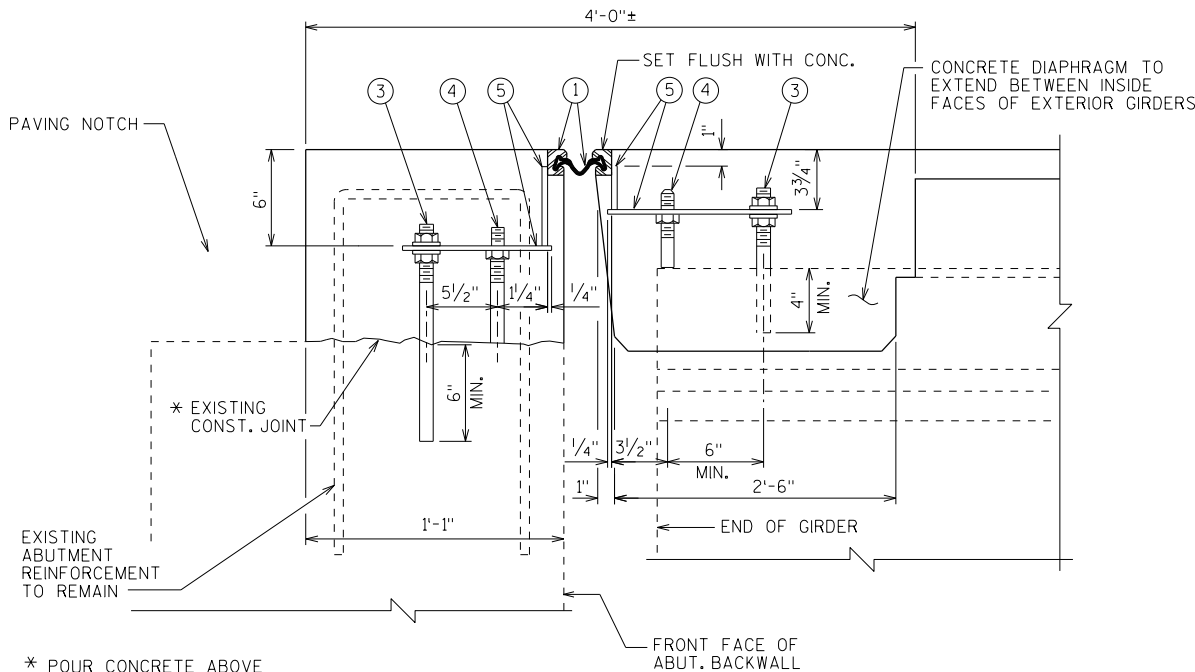
PARAPET REPLACEMENT SHALL BE
INCLUDED UNDER THE BID ITEM
"JOINT REPAIR".

STATE PROJECT NUMBER

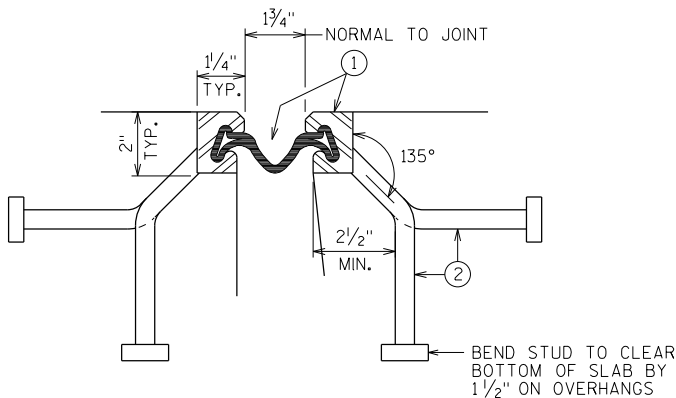
1227-08-73

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-223			
DRAWN BY JJC		PLANS CK'D. YC	
JOINT REPAIR		SHEET 3 OF 6	

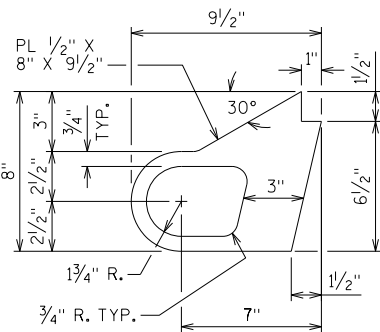
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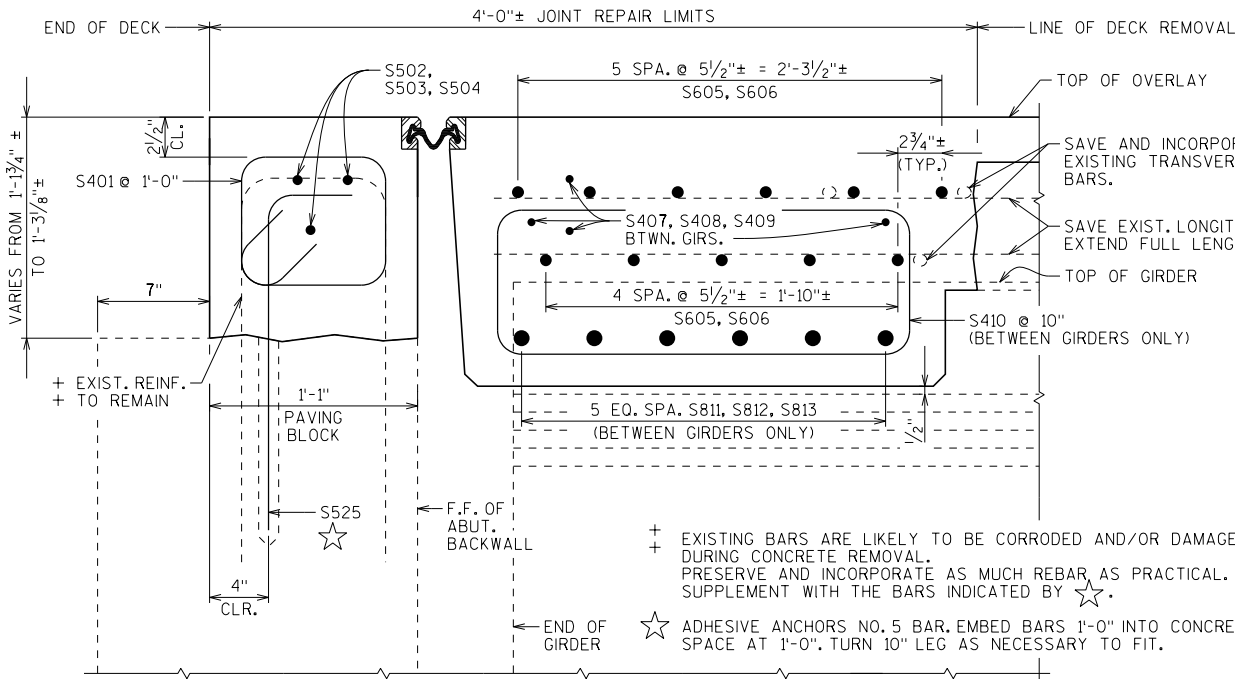
SECTION THRU JOINT AT SOUTH ABUTMENT
NORMAL TO CL SUBSTRUCTURE



SECTION THRU JOINT
EXTERIOR GIRDER TO EDGE OF DECK AND AT PARAPETS, MEDIANS AND SIDEWALKS



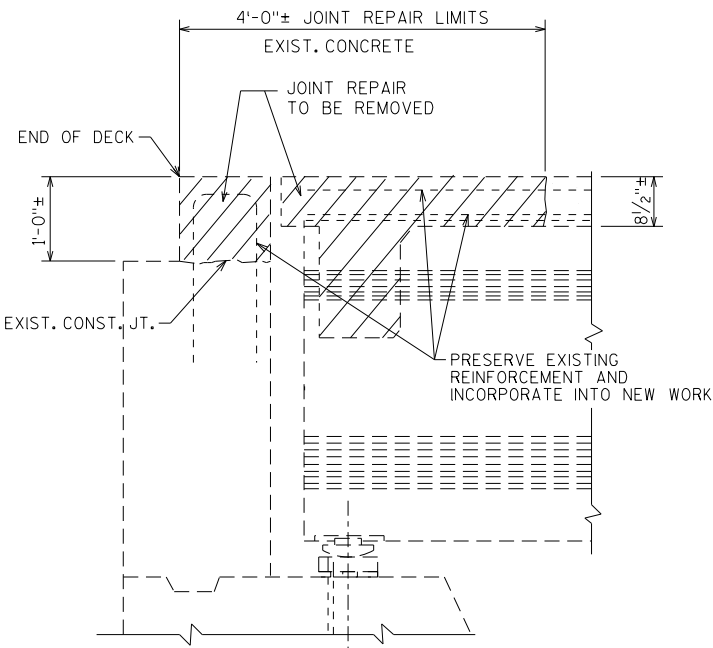
ALTERNATE STRIP SEAL ANCHOR



SECTION THRU JOINT AT SOUTH ABUTMENT
NORMAL TO CL SUBSTRUCTURE
SHOWING REINFORCEMENT

LEGEND

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



JOINT REPAIR - REMOVAL
SECTION THRU EXISTING EXPANSION JOINT
AT SOUTH ABUTMENT
NORMAL TO CL SUBSTRUCTURE

NOTES

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

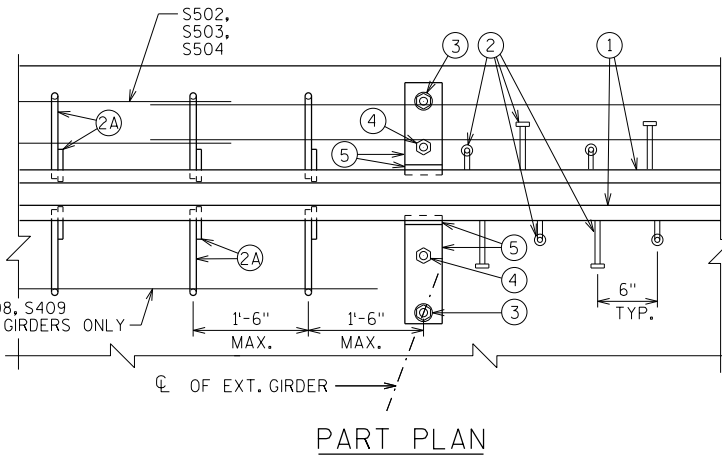
AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST AND SWEEP.

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

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

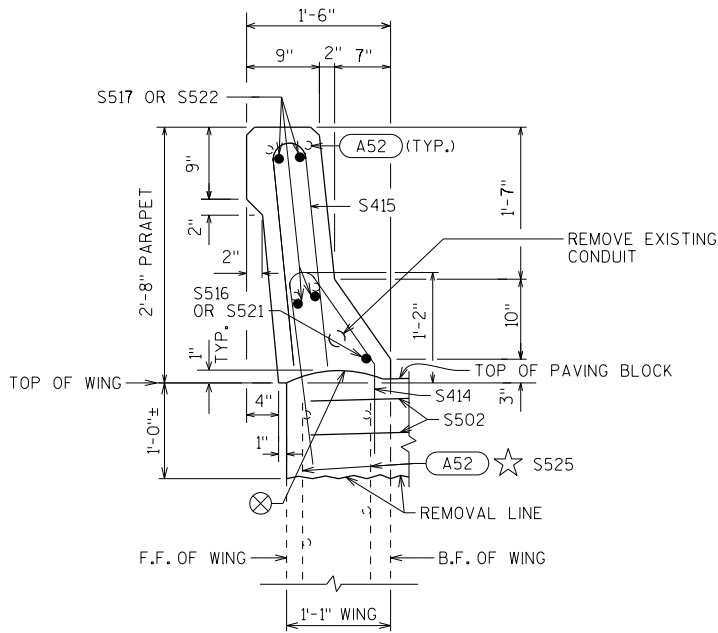
ANCHOR SYSTEM NO. 8 AND NO. 9 SHALL CONFORM TO ASTM A307 & SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE B-5-223".

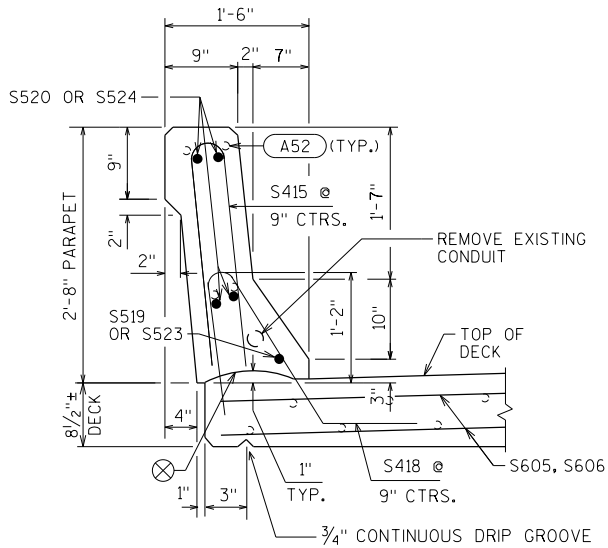


PART PLAN

\\\\PCHAPP004\\AM\\VAUL I.D.-TRANS_07\\TDCWIS\\00214891-A0\\STRUCT\\CAD\\23 B050223\\VA EXP\\SHEET\\04 E\\23IA002.SHT



NEW SECTION THRU PARAPET ON WING



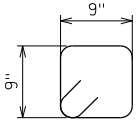
NEW SECTION THRU PARAPET ON DECK

⊗ CONST. JOINT - STRIKE OFF AS SHOWN.

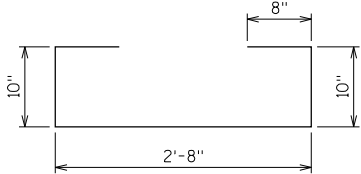
A52 SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.

THE NEW ADDITIONAL HORIZONTAL REINFORCEMENT REQUIRED IN THE PARAPETS SHALL BE TIED TO THE EXISTING HORIZONTAL REINFORCEMENT.

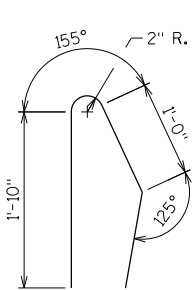
☆ IF EXISTING BARS ARE SEVERELY CORRODED OR DAMAGED DURING CONCRETE REMOVAL, REPLACE WITH BARS S525 ANCHORED WITH ADHESIVE ANCHORS NO. 5 BAR, EMBED BARS 1'-0" MIN. INTO EXISTING CONC. PLACE 4" CL. MIN. OF VERT. CONC. FACE.



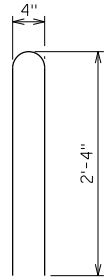
S401



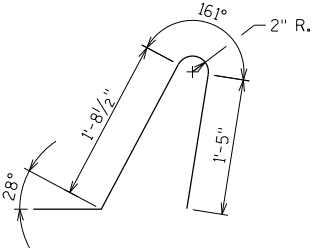
S410



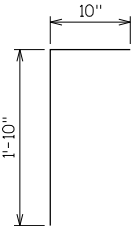
S414



S415



S418



S525

BILL OF BARS

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
BAR DIMENSIONS ARE OUT TO OUT OF BAR.

BAR MARK	COAT	NO. REQ'D		LENGTH	BENT	BAR SERIES	LOCATION
		S. ABUT.	N. ABUT.				
S401	X	40	-	3'-6"	X		PAVING BLOCK - VERT. - STIRRUP - AT STAGE 1 & 2 CONST.
S502	X	12	-	8'-0"			PAVING BLOCK - HORIZ. - AT STAGE 1 & 2 CONST.
S503	X	3	-	6'-3"			PAVING BLOCK - HORIZ. - AT STAGE 1 CONST.
S504	X	3	-	6'-3"			PAVING BLOCK - HORIZ. - AT STAGE 2 CONST.
S605	X	11	-	20'-3"			DECK - HORIZ. - TRANS. - TOP & BOT. - AT STAGE 1 CONST.
S606	X	11	-	20'-3"			DECK - HORIZ. - TRANS. - TOP & BOT. - AT STAGE 2 CONST.
S407	X	8	-	10'-1"			DECK - HORIZ. - TRANS. - BTWN. GIRS. - AT STAGE 1 & 2 CONST.
S408	X	4	-	5'-1"			DECK - HORIZ. - TRANS. - BTWN. G2 & G3 - AT STAGE 1 CONST.
S409	X	4	-	5'-0"			DECK - HORIZ. - TRANS. - BTWN. G2 & G3 - AT STAGE 2 CONST.
S410	X	30	-	5'-4"	X		DECK/CONC. DIAPH. - VERT. - BTWN. GIRS. - AT STAGE 1 & 2 CONST.
S811	X	12	-	10'-1"			CONC. DIAPH. - BOT. - HORIZ. - TRANS. - BTWN. GIRS. - AT STAGE 1 & 2 CONST.
S812	X	6	-	5'-1"			CONC. DIAPH. - BOT. - HORIZ. - TRANS. - BTWN. G2 & G3 - AT STAGE 1 CONST.
S813	X	6	-	5'-0"			CONC. DIAPH. - BOT. - HORIZ. - TRANS. - BTWN. G2 & G3 - AT STAGE 2 CONST.
S414	X	4	-	4'-3"	X		WING & PARAPET - VERT. - TRANS. - AT WING CORNERS 1 & 2
S415	X	14	-	4'-10"	X		PARAPET - VERT. - TRANS. - ABOVE DECK AND WINGS - AT WING CORNERS 1 & 2
S516	X	1	-	1'-3"			WING PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 1
S517	X	4	-	1'-8"			WING PARAPET - HORIZ. - LONGIT. - AT WING CORNER 1
S418	X	9	-	4'-3"	X		DECK & PARAPET - VERT. - TRANS. - AT WING CORNERS 1 & 2
S519	X	1	-	3'-8"			DECK PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 1
S520	X	4	-	3'-1"			DECK PARAPET - HORIZ. - LONGIT. - AT WING CORNER 1
S521	X	1	-	1'-8"			WING PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 2
S522	X	4	-	1'-1"			WING PARAPET - HORIZ. - LONGIT. - AT WING CORNER 2
S523	X	1	-	3'-4"			DECK PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 2
S524	X	4	-	3'-8"			DECK PARAPET - HORIZ. - LONGIT. - AT WING CORNER 2
S525	X	48	-	2'-7"	X		PAVING BLOCK & ENDS OF ABUT. BACKWALL - VERT. - DOWEL - AT STAGE 1 & 2 CONST.
- - -			-				

* BAR COUPLERS USED. BAR LENGTH COMPUTED UP TO THE LONGIT. CONST. JOINT AND SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURERS' RECOMMENDATIONS.
** ADHESIVE ANCHORS NO. 5 BAR.

STATE PROJECT NUMBER

1227-08-73

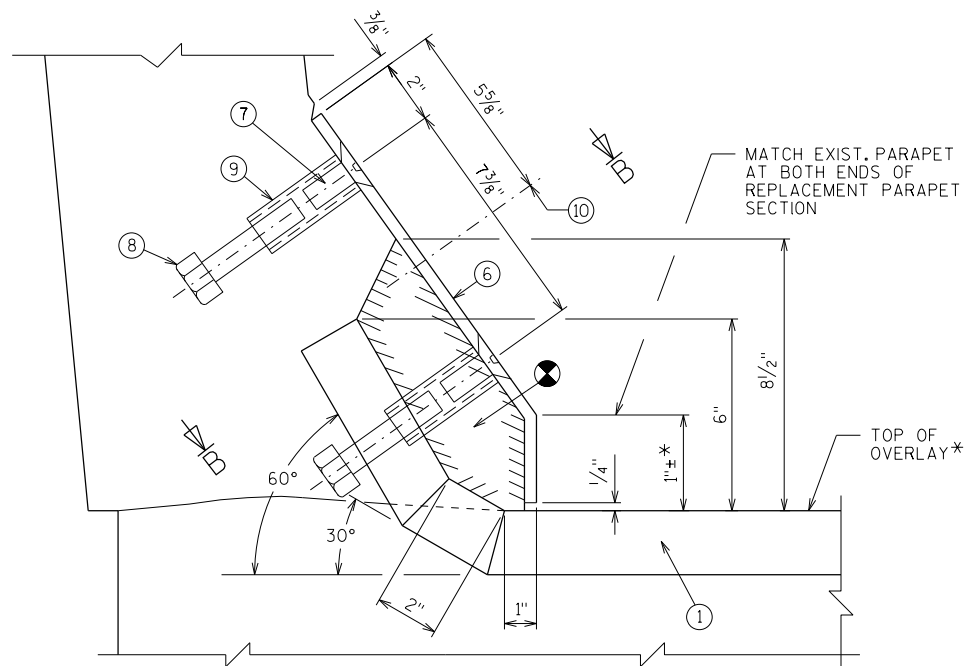
UNCOATED: 0 LBS
COATED: 1840 LBS

S. ABUT. 0 LBS
N. ABUT. 0 LBS

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-223			
DRAWN BY YC		PLANS CK'D. VCP	
JOINT REPAIR - BILL OF BARS		SHEET 5 OF 6	

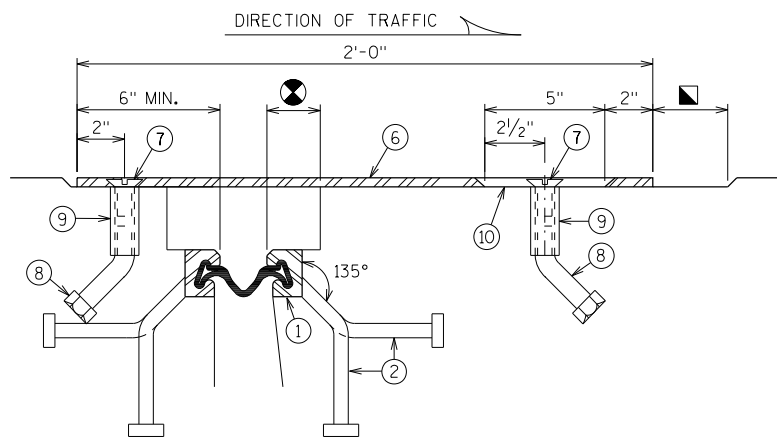
LEGEND

- ① NEOPRENE STRIP SEAL (4 - INCH) AND STEEL EXTRUSIONS.
- ② STUDS $\frac{5}{8}$ " ϕ X $6\frac{3}{8}$ " LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
- ⑥ GALVANIZED PLATE $\frac{3}{8}$ " X 1'-2" X 2'-0" LONG WITH HOLES FOR NO. 7. BEND AS SHOWN.
- ⑦ $\frac{3}{4}$ " ϕ X $1\frac{1}{2}$ " STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS $\frac{1}{16}$ " BELOW PLATE SURFACE.
- ⑧ $\frac{3}{4}$ " ϕ X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
- ⑨ $\frac{3}{4}$ " ϕ X $2\frac{1}{4}$ " GALVANIZED THREADED COUPLING.
- ⑩ 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.



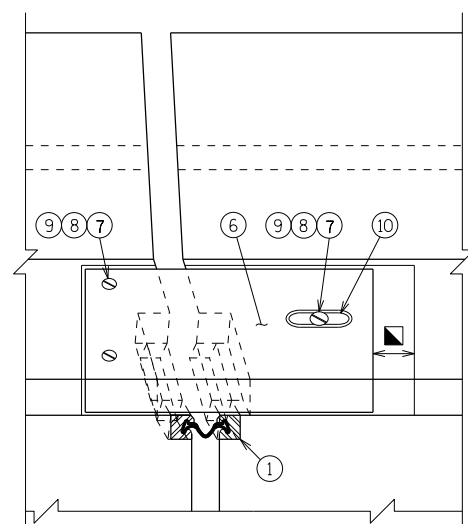
SECTION A-A

* TOP OF OVERLAY
@ 2" ± ABOVE TOP
OF ORIGINAL DECK.

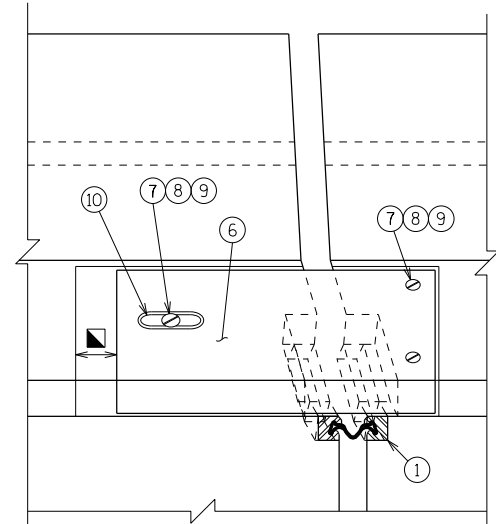


SECTION B-B

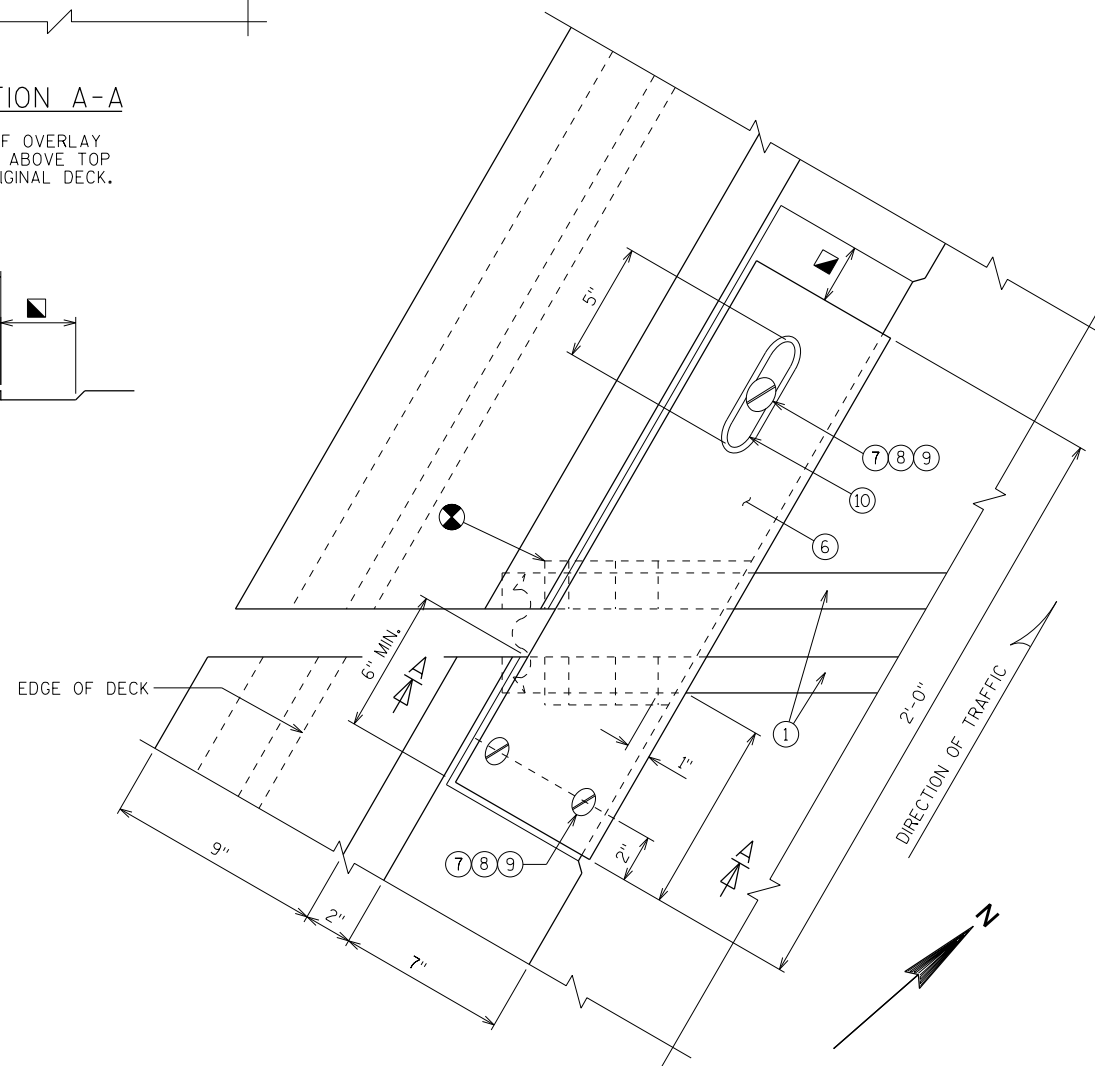
AT WING CORNER 1
OPPOSITE HAND AT WING CORNER 2

VIEW OF PARAPET PLATE
FROM ROADWAY

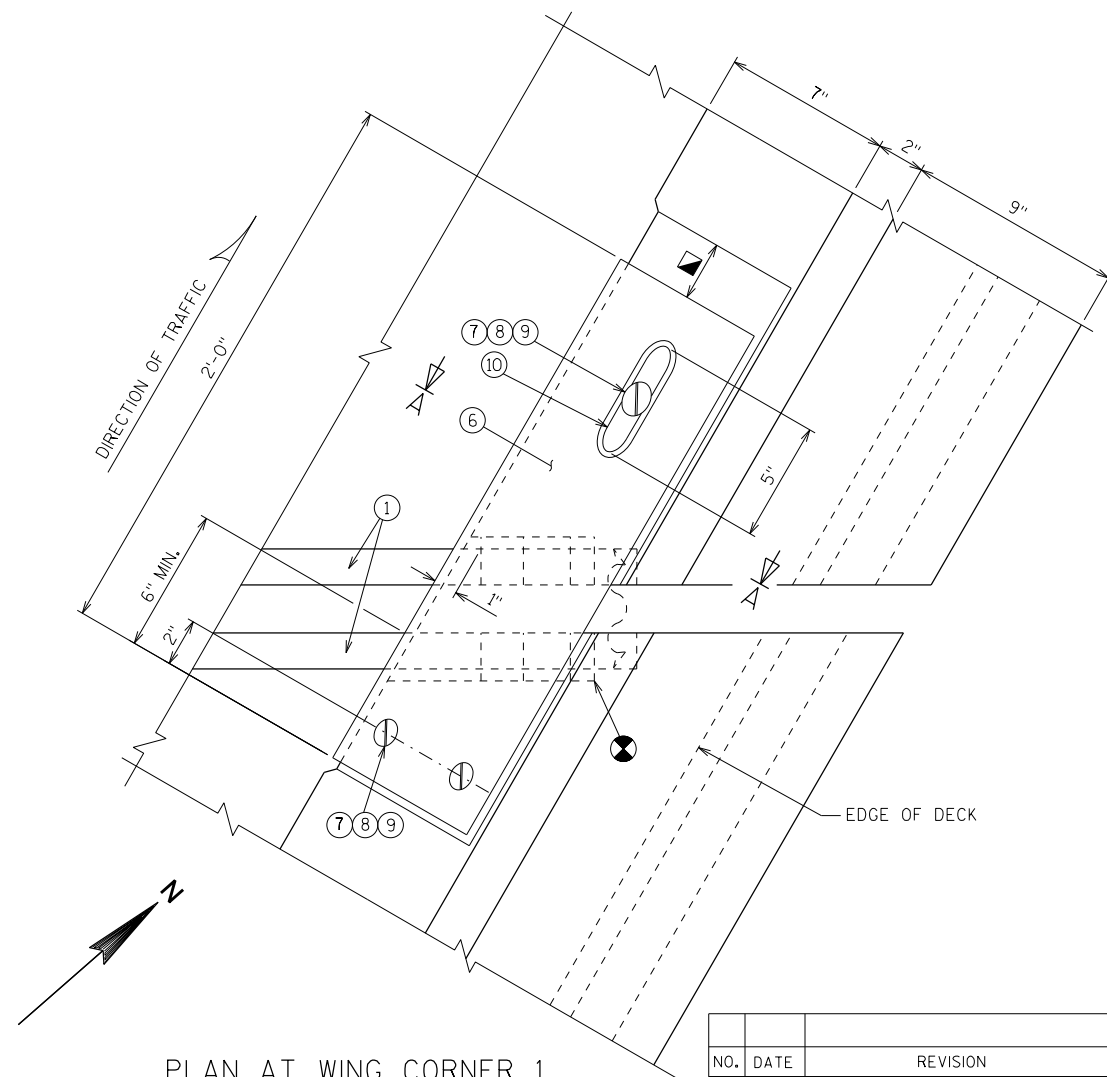
AT WING CORNER 2

VIEW OF PARAPET PLATE
FROM ROADWAY

AT WING CORNER 1



PLAN AT WING CORNER 2

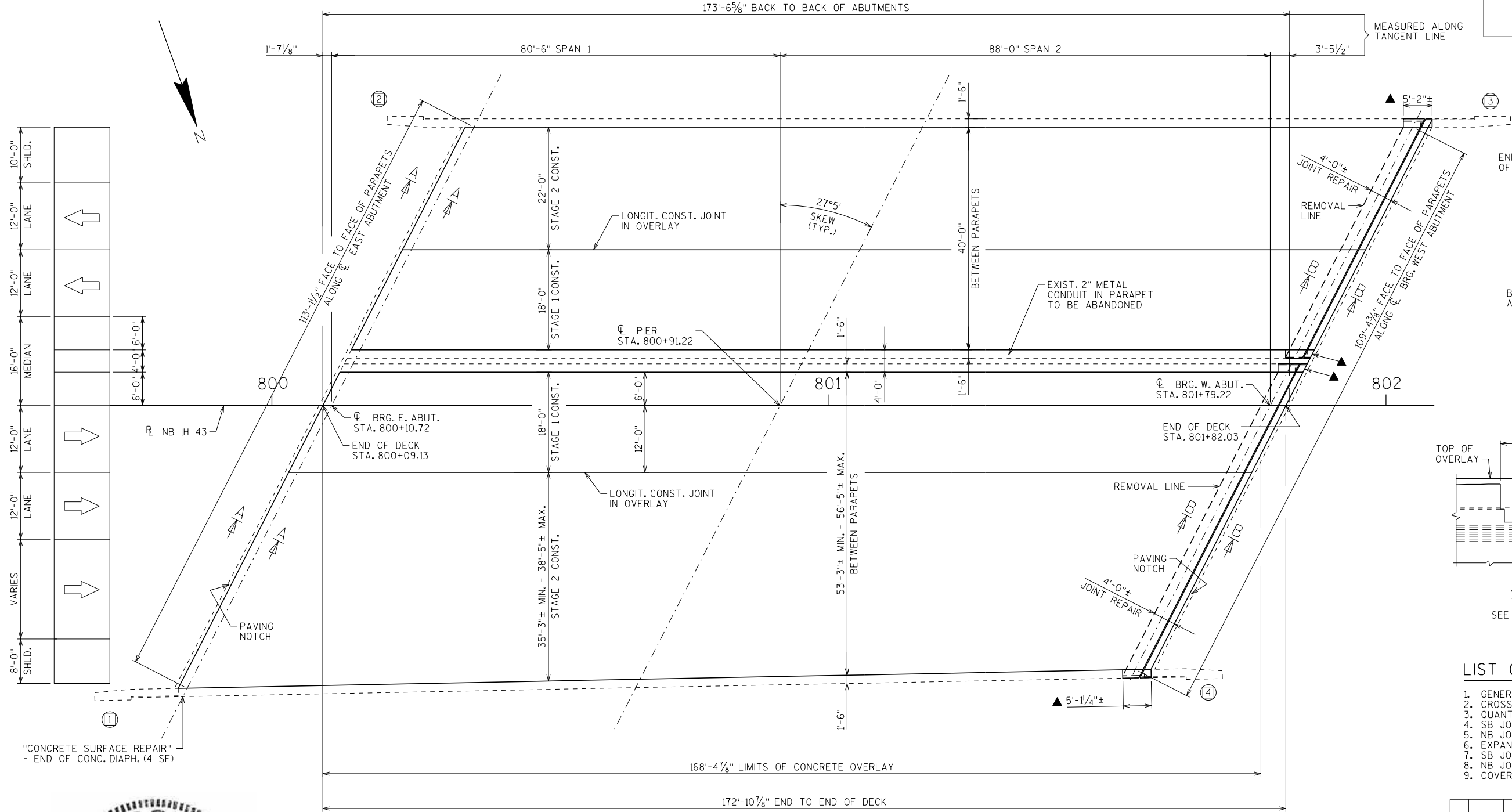


PLAN AT WING CORNER 1

⊗ BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.

▣ JOINT OPENING DIMENSION ALONG SKEW PLUS $\frac{1}{2}$ ".

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-223			
DRAWN BY YC		PLANS CK'D. VCP	
COVER PLATE DETAILS		SHEET 6 OF 6	



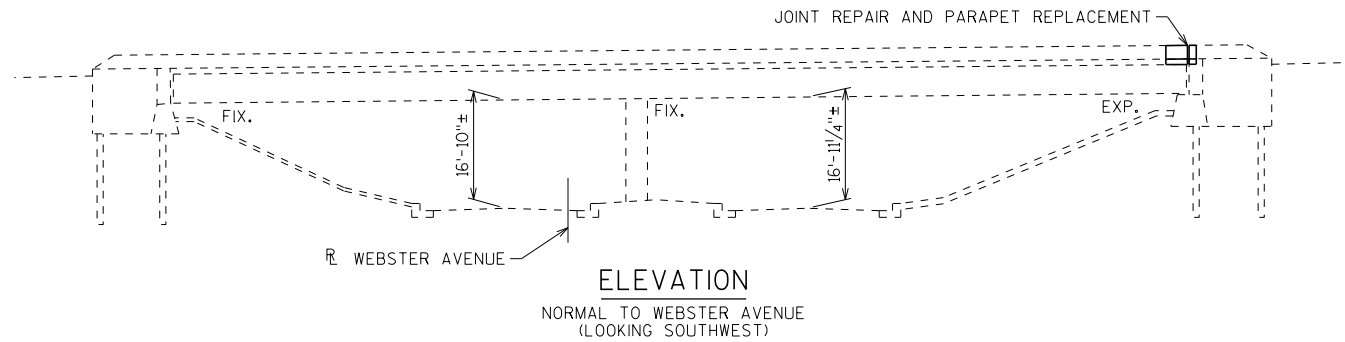
"CONCRETE SURFACE REPAIR"
- END OF CONC. DIAPH. (4 SF)

PLAN

(2-SPAN PRESTRESSED CONCRETE GIRDER, CONCRETE OVERLAY)

○ INDICATES WINGWALL NUMBER

▲ PARAPET REPLACEMENT AREA.
SEE SHEET -- FOR DETAILS.

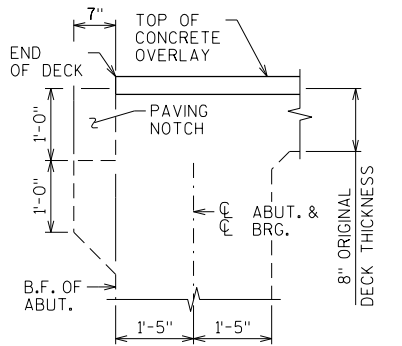


ELEVATION

NORMAL TO WEBSTER AVENUE
(LOOKING SOUTHWEST)

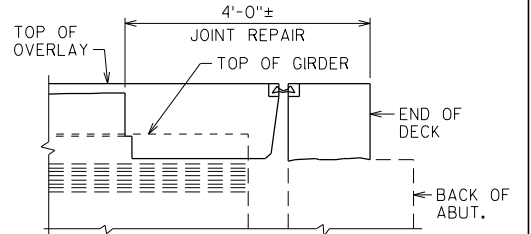
STATE PROJECT NUMBER

1227-08-73



SECTION A-A

SECTION THRU ABUT. DIAPH.



SECTION B-B

SEE SHEET -- FOR DETAILS.

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION & ELEVATION
3. QUANTITIES & NOTES
4. SB JOINT REPAIR
5. NB JOINT REPAIR
6. EXPANSION DEVICE
7. SB JOINT REPAIR - BILL OF BARS
8. NB JOINT REPAIR - BILL OF BARS
9. COVER PLATE DETAILS



V. Patel

DATE: 02/03/2017

NO.	DATE	REVISION	BY
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exp. **exp U.S. Services Inc.**
Milwaukee, WI
BUILDINGS • EARTH & ENVIRONMENT • ENERGY
INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-5-224

IH 43 OVER WEBSTER AVENUE

COUNTY BROWN TOWN/CITY/VILLAGE GREEN BAY

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY YC DESIGN CK'D. VCP DRAWN BY JUG/YC PLANS CK'D. VCP

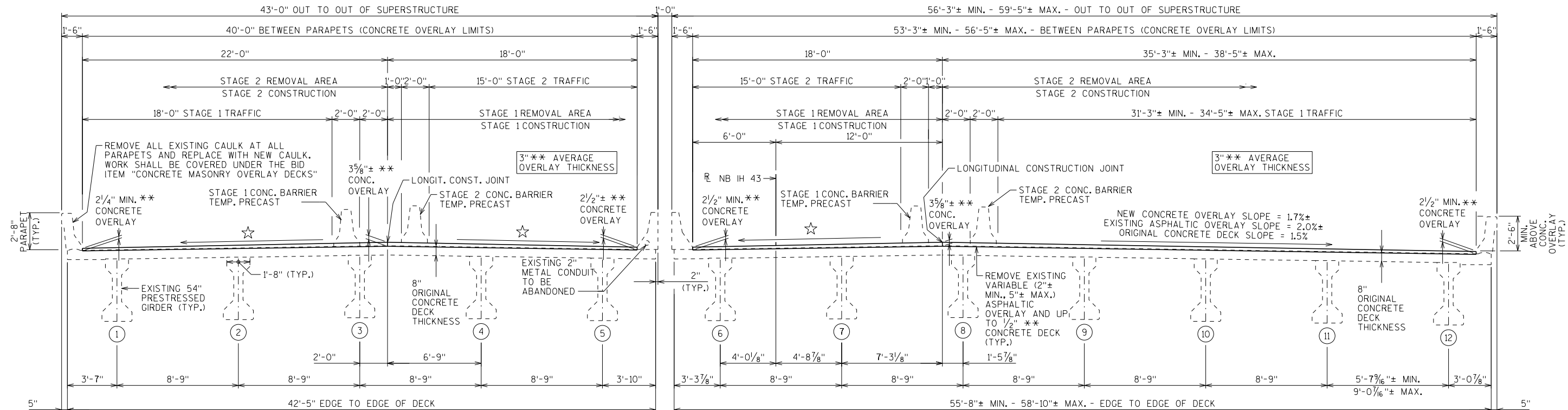
GENERAL PLAN

SHEET 1 OF 9

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE:
WILLIAM DREHER, P.E.
(608) 266-8489

CONSULTANT:
VINOD PATEL, P.E.
(312) 616-7395



CROSS SECTION THRU DECK LOOKING WEST

** THE OVERLAY THICKNESS INCLUDES 1/2" THICKNESS OF CONCRETE REMOVAL FROM ORIGINAL CONCRETE DECK.

☆ NEW CONCRETE OVERLAY SLOPE = 2.0%
EXISTING ASPHALTIC OVERLAY SLOPE = 2.0%±
ORIGINAL CONCRETE DECK SLOPE = 1.5%

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS20
INVENTORY RATING: HS20
OPERATING RATING: HS38
WISCONSIN STANDARD PERMIT VEHICLE (Wis-SPV): 250 KIPS

MATERIAL PROPERTIES:

CONCRETE MASONRY: OVERLAY DECKS $f'_c = 4,000$ P.S.I.
ALL OTHER $f'_c = 3,500$ P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60: $f_y = 60,000$ P.S.I.

TRAFFIC VOLUME

IH 43 WEBSTER AVE
A.D.T. = 40,400 (2036) A.D.T. = 20,000 (2036)
R.D.S. = 70 MPH R.D.S. = 50 MPH

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-224			
DRAWN BY YC		PLANS CK'D. VCP	
CROSS SECTION & ELEVATION		SHEET 2 OF 9	

STATE PROJECT NUMBER

1227-08-73

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	E. ABUT.	W. ABUT.	S. PIER	SUPER.	TOTAL
502.3100.07	EXPANSION DEVICE B-5-224	LS	-	-	-	-	1
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	-	1,826	1,826
502.3210	PIGMENTED SURFACE SEALER	SY	10	11	-	262	283
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	-	123	-	-	123
502.6500	PROTECTIVE COATING CLEAR	GAL	-	-	-	5	5
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	-	-	-	4,500	4,500
505.0904	BAR COUPLERS NO. 4	EACH	-	8	-	-	8
505.0905	BAR COUPLERS NO. 5	EACH	-	6	-	-	6
505.0906	BAR COUPLERS NO. 6	EACH	-	22	-	-	22
505.0907	BAR COUPLERS NO. 7	EACH	-	12	-	-	12
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	-	183	183
509.0302	PREPARATION DECKS TYPE 2	SY	-	-	-	73	73
509.0500	CLEANING DECKS	SY	-	-	-	1,779	1,779
509.1000	JOINT REPAIR	SY	-	-	-	54	54
509.1500	CONCRETE SURFACE REPAIR	SF	4	-	-	74	78
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	-	2	2
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	-	-	-	187	187
509.9010.S.17	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-224	SY	-	-	-	1,779	1,779
509.9050.S	CLEANING PARAPETS	LF	29	30	-	671	730
SPV.0060.01	CLEANING AND PAINTING BEARINGS	EACH	-	12	-	-	12
SPV.0090.01	CLEANING CONCRETE GIRDER ENDS	LF	-	9	-	-	9
	NON-BID ITEMS						
	BRIDGE SEAT PROTECTION						

BID ITEM "CONCRETE MASONRY OVERLAY DECKS" ALSO INCLUDES CONCRETE FOR:

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", "FULL-DEPTH DECK REPAIR", AND "JOINT REPAIR".

THE QUANTITIES OF "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" ARE BASED ON AN INFRARED THERMOGRAPHIC DECK SURVEY REPORT.

8

8

BLAST CLEAN ALL EXPOSED STEEL REINFORCEMENT AND STEEL PRESTRESSING STRANDS TO REMOVE ALL RUST AND CORROSION PRIOR TO PAINTING.

END VIEW

SEE TABLE

APPROACH SLAB

PART LONGITUDINAL SECTION (WEST ABUT.)

PRESTRESSED GIRDER REPAIRS

CLEANING CONCRETE GIRDER ENDS (L.F.)

	G1	G10	G12
WEST ABUT.	3	3	3

LEGEND

DENOTES AREAS OF BID ITEM "CLEANING CONCRETE GIRDER ENDS". SEE NOTES.

NOTES:

1. REMOVE ANY LOOSE, DELAMINATED, OR DETERIORATED CONCRETE FROM THE END OF CONCRETE GIRDERS.

2. CLEAN AND PAINT ANY EXPOSED STEEL REINFORCEMENT AND STEEL PRESTRESSING STRANDS.

3. VERIFY LENGTH OF CLEANING WITH ENGINEER.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS OF EXISTING STRUCTURE MEMBERS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THE EXISTING BITUMINOUS ASPHALTIC OVERLAY SHALL BE REMOVED FROM THE BRIDGE DECK UNDER BID ITEM "REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-5-224".

AFTER REMOVING EXISTING ASPHALTIC OVERLAY, UP TO 1/2" OF CONCRETE SHALL BE REMOVED FROM ORIGINAL BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", "CONCRETE SURFACE REPAIR", AND "FULL-DEPTH DECK REPAIR" AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.

ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1 INCH DEEP SAW CUT.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 2 1/2" ON NB ROADWAY AND 2 1/4" ON SB ROADWAY PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS AS GIVEN ON THE PLANS. IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY OR JOINT REPAIRS AT ABUTMENTS IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

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

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

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

APPLY BRIDGE SEAT PROTECTION, AS PER SECTION 502.3.12 OF THE STANDARD SPECIFICATIONS, TO THE TOP SURFACE OF WEST ABUTMENT BELOW EXPANSION DEVICE. POWER WASH AND ADEQUATELY DRY SURFACES BEFORE APPLICATION. WORK TO BE INCIDENTAL TO "JOINT REPAIR".

COAT ALL EXPOSED SURFACES OF THE LAST 5'-0" OF GIRDERS (SPAN 2 AT WEST ABUTMENT END ONLY) WITH "PROTECTIVE COATING CLEAR" AS DIRECTED BY THE ENGINEER. APPLY AT A RATE OF ONE GALLON PER 200 SF PER THE STANDARD SPECIFICATION 502.3.15 PARA. 4.

CLEAN AND PAINT ALL BEARINGS AT WEST ABUTMENT. SEE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING BEARINGS".

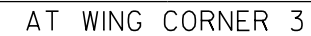
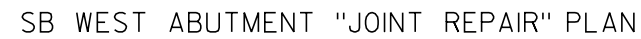
CLEAN THE INSIDE FACES AND TOP SURFACE OF THE EXISTING CONCRETE PARAPETS. PARAPET JOINTS SHALL BE CLEANED AND RE-SEALED WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. INCLUDE IN BID ITEM "CLEANING PARAPETS".

APPLY "PROTECTIVE SURFACE TREATMENT" TO THE EXPOSED DECK SURFACE OF THE NEW CONCRETE OVERLAY BETWEEN PARAPETS AND EXPOSED TOP SURFACE OF JOINT REPAIR.

APPLY "PIGMENTED SURFACE SEALER" ON THE INSIDE AND TOP FACES OF PARAPETS, INCLUDING PARAPETS ON ABUTMENT WINGS.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-224			
		DRAWN BY YC	PLANS CK'D. VCP
QUANTITIES & NOTES			SHEET 3 OF 9

S01 BAR COUPLERS USED. BAR LENGTH COMPUTED TO $\frac{1}{4}$ OF LONGIT. JOINT & SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURERS' RECOMMENDATIONS.



NO.	DATE	REVISION			BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION					
STRUCTURE B-5-224					
			DRAWN BY YC	PLANS CK'D. VCP	
SB JOINT REPAIR				SHEET 4 OF 9	

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-224			
		DRAWN BY J J G	PLANS CK'D. Y C
NB JOINT REPAIR		SHEET 5 OF 9	

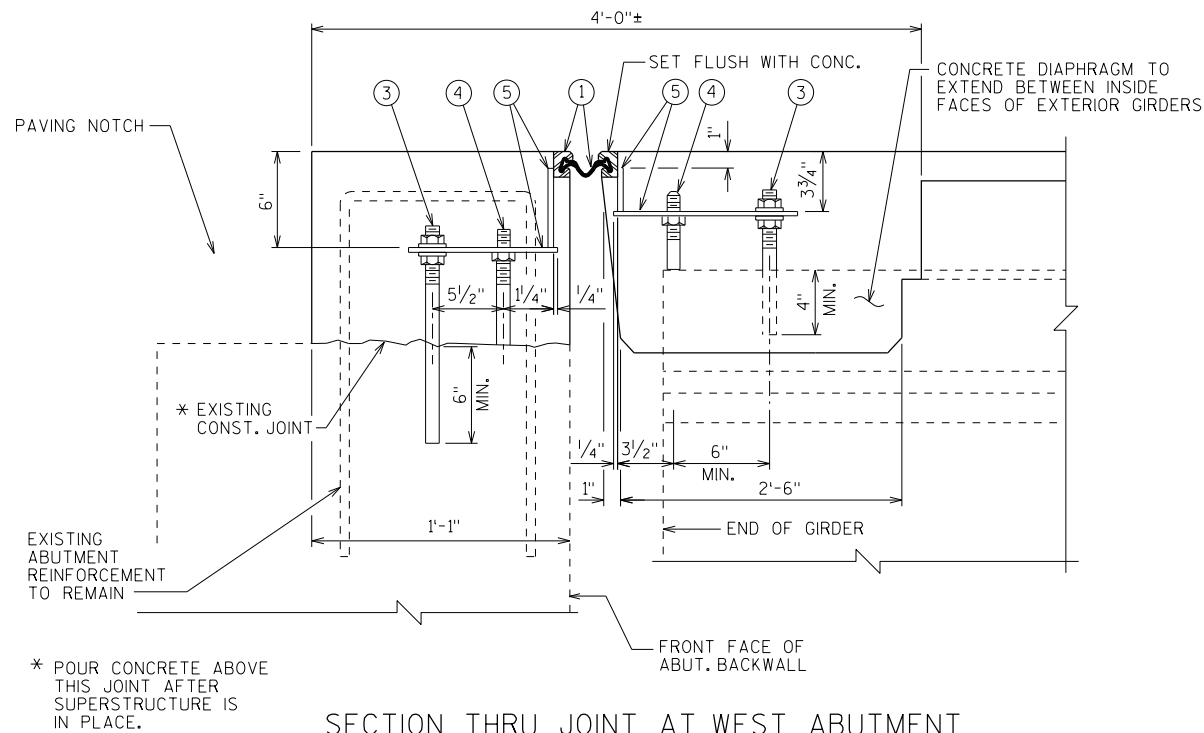
\\PCHAPP004\AM\VAUL I.D--TRANS_07\TDCWIS\00214891-A0\STRUCT\CAD\24 B050224\IA EXP\ SHEET\06 E\24IA002.SHT

CHUNYM

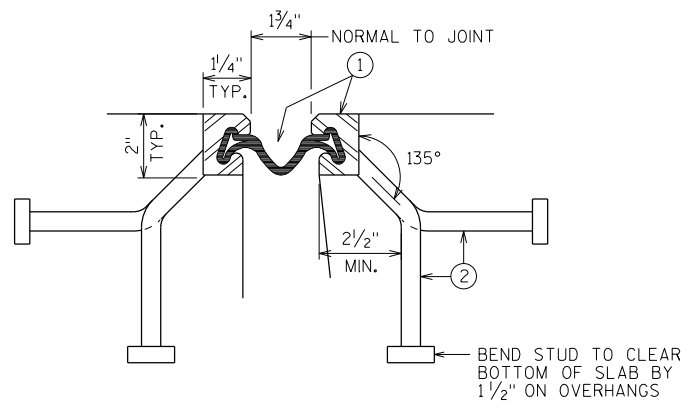
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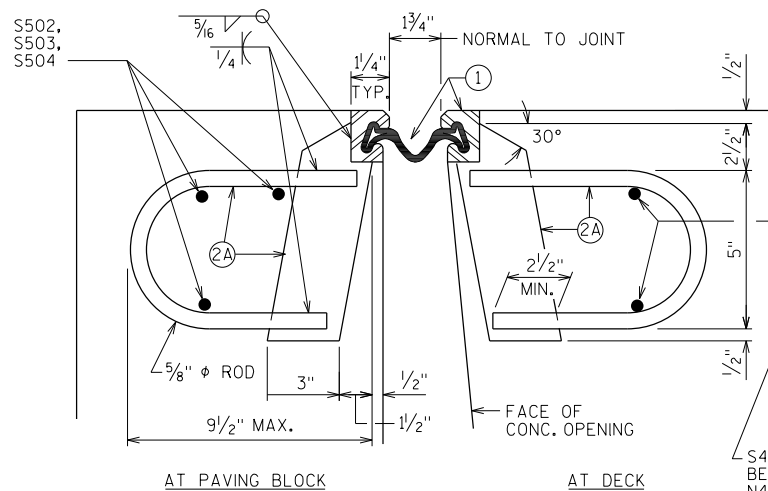
8



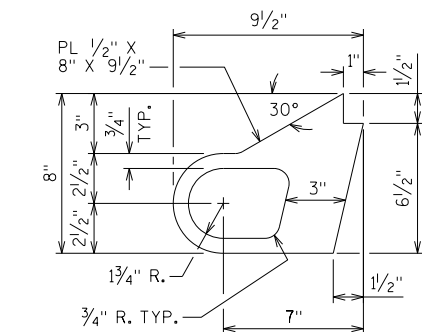
SECTION THRU JOINT AT WEST ABUTMENT
NORMAL TO CL SUBSTRUCTURE



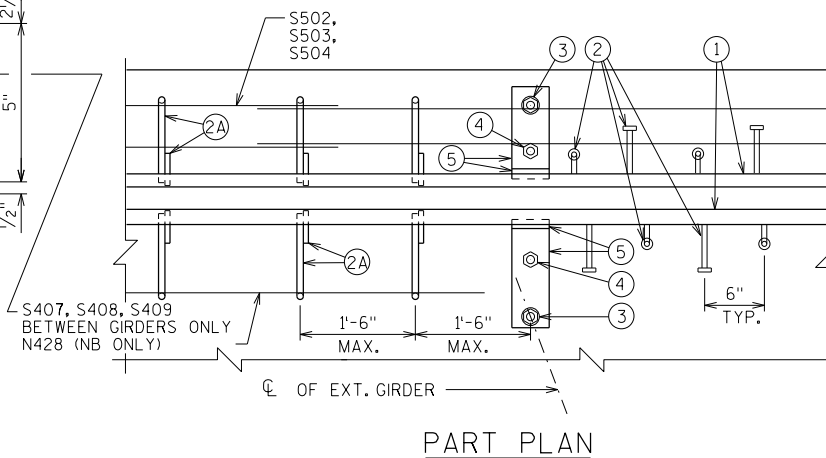
SECTION THRU JOINT
EXTERIOR GIRDER TO EDGE OF DECK AND AT PARAPETS, MEDIANS AND SIDEWALKS



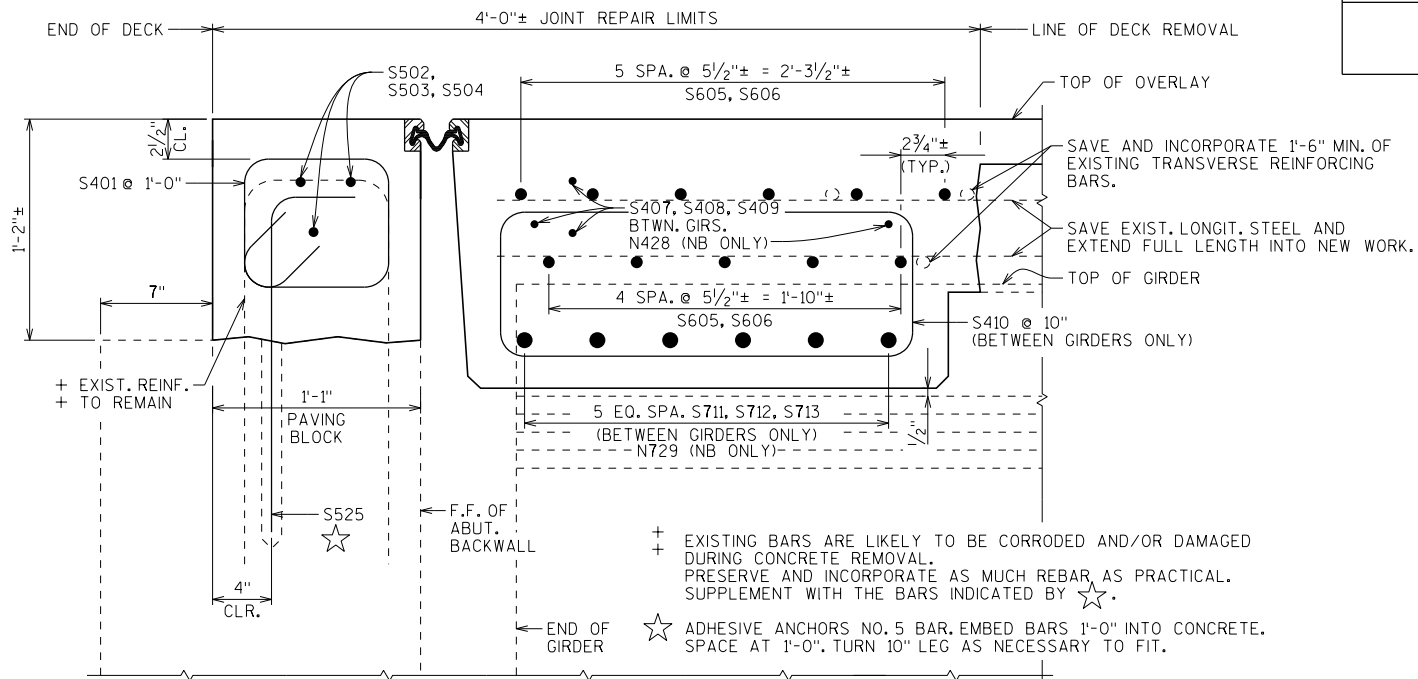
SECTION THRU JOINT
ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS.
BAR MARKS FOR SB SHOWN.
NB SIMILAR, EXCEPT BAR MARKS START WITH "N".



ALTERNATE STRIP SEAL ANCHOR



PART PLAN



SECTION THRU JOINT AT WEST ABUTMENT
NORMAL TO CL SUBSTRUCTURE
SHOWING REINFORCEMENT
BAR MARKS FOR SB SHOWN.
NB SIMILAR, EXCEPT BAR MARKS START WITH "N".

LEGEND

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

NOTES

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

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

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

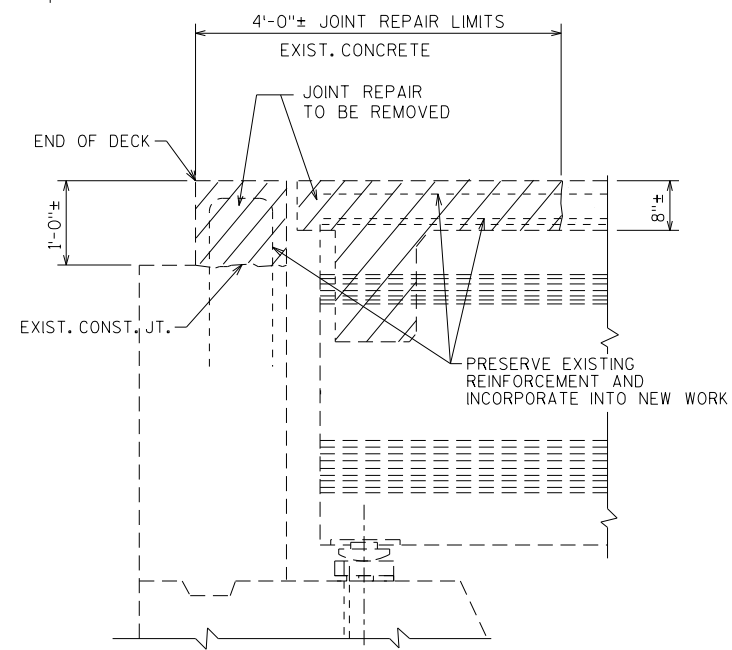
SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

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

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE B-5-224".

STATE PROJECT NUMBER

1227-08-73



JOINT REPAIR - REMOVAL
SECTION THRU EXISTING EXPANSION JOINT
AT WEST ABUTMENT
NORMAL TO CL SUBSTRUCTURE

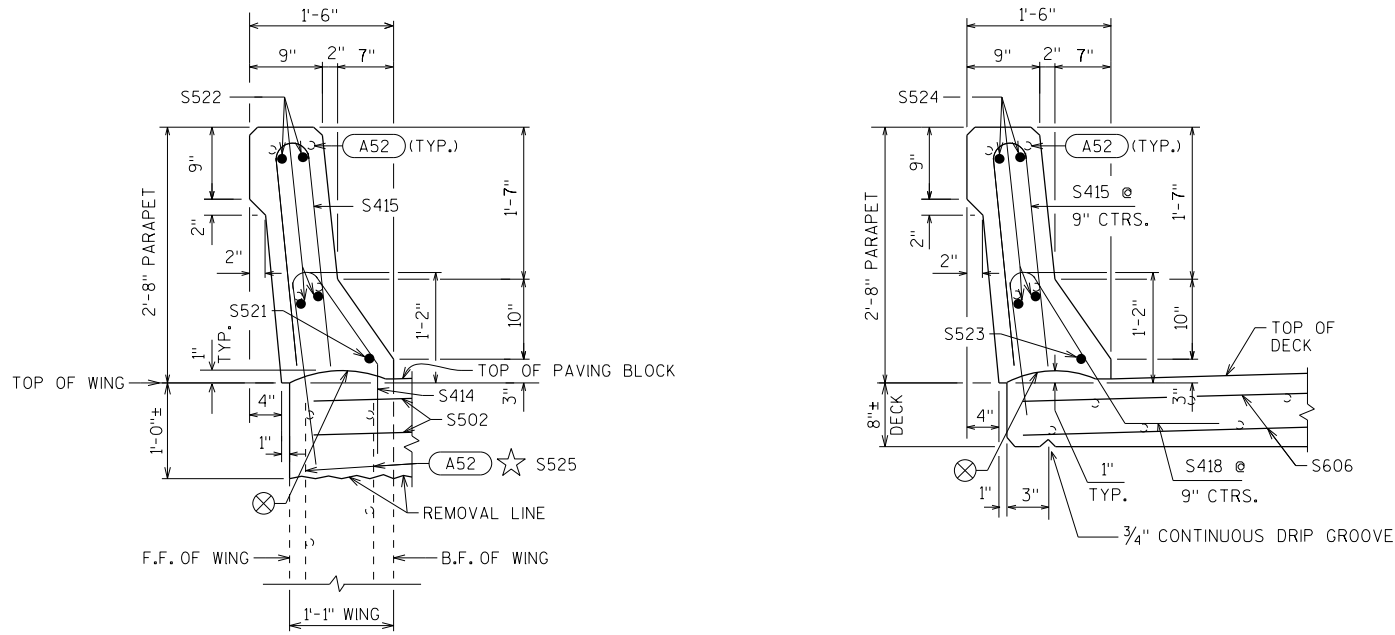
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-224			
EXPANSION DEVICE		DRAWN BY YC	PLANS CK'D. VCP
		SHEET 6 OF 9	

8

\\PCHAPP004\AM\VAUL I.D--TRANS_07\TDCWIS\00214891-A0\STRUCT\CAD\24_B050224\VA_EXP\SHEET\07_EJ24IA003.SHT

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NEW SECTION THRU EXTERIOR PARAPET ON WING

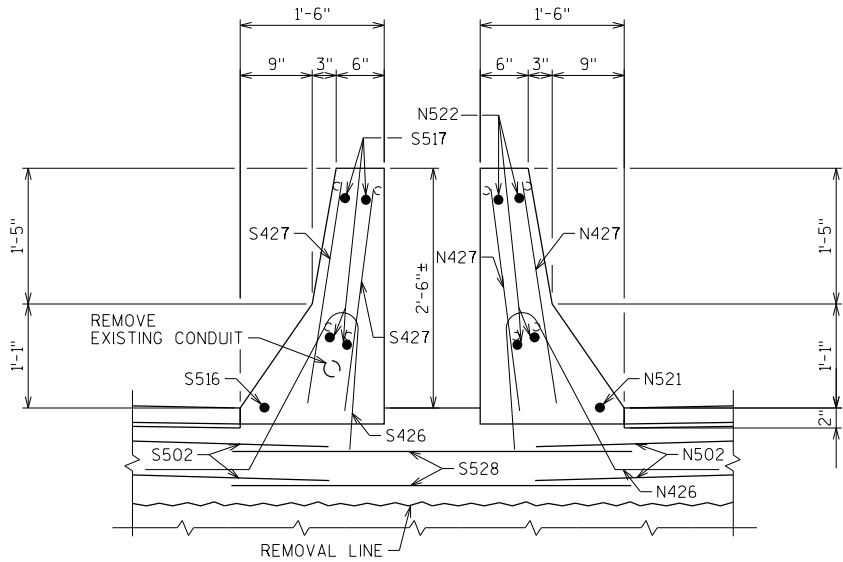
NEW SECTION THRU EXTERIOR PARAPET ON DECK

⊗ CONST. JOINT - STRIKE OFF AS SHOWN.

(A52) SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.

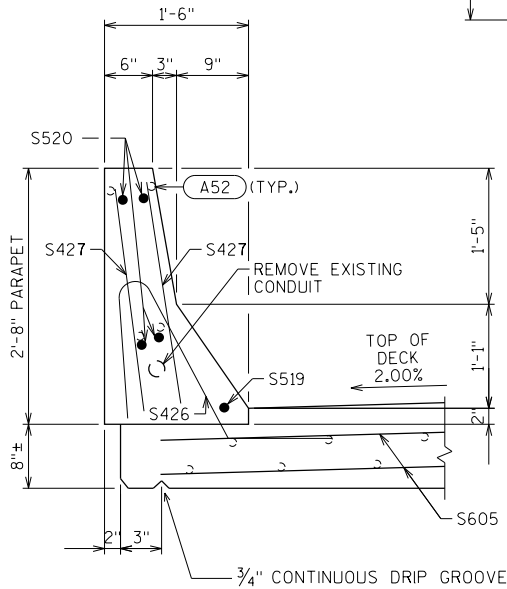
THE NEW ADDITIONAL HORIZONTAL REINFORCEMENT REQUIRED IN THE PARAPETS SHALL BE TIED TO THE EXISTING HORIZONTAL REINFORCEMENT.

☆ IF EXISTING BARS ARE SEVERELY CORRODED OR DAMAGED DURING CONCRETE REMOVAL, REPLACE WITH BARS S525 ANCHORED WITH ADHESIVE ANCHORS NO. 5 BAR, EMBED BARS 1'-0" MIN. INTO EXISTING CONC. PLACE 4" CL. MIN. OF VERT. CONC. FACE.



NEW SECTION THRU MEDIAN PARAPETS ON BACKWALL

LOOKING WEST
BARS S401, S525, N401, & N525 NOT SHOWN.



NEW SECTION THRU MEDIAN PARAPET ON DECK

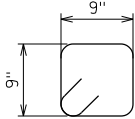
LOOKING EAST

BILL OF BARS

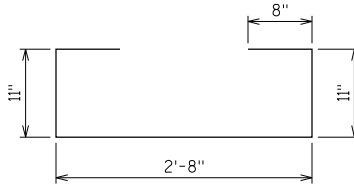
THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
BAR DIMENSIONS ARE OUT TO OUT OF BAR.

BAR MARK	COAT	NO. REQ'D		LENGTH	BENT	BAR SERIES	LOCATION
		SB E. ABUT.	SB W. ABUT.				
S401	X	-	50	3'-6"	X		PAVING BLOCK - VERT. - STIRRUP - AT STAGE 1 & 2 CONST., INCLUDING MEDIAN
S502	X	-	15	8'-0"			PAVING BLOCK - HORIZ. - AT STAGE 1 & 2 CONST.
S503	X	-	3	7'-7"			PAVING BLOCK - HORIZ. - AT STAGE 1 CONST.
* S504	X	-	3	4'-9"			PAVING BLOCK - HORIZ. - AT STAGE 2 CONST.
* S605	X	-	11	21'-6"			DECK - HORIZ. - TRANS. - TOP & BOT. - AT STAGE 1 CONST.
* S606	X	-	11	25'-9"			DECK - HORIZ. - TRANS. - TOP & BOT. - AT STAGE 2 CONST.
* S407	X	-	12	7'-7"			DECK - HORIZ. - TRANS. - BTWN. GIRS. - AT STAGE 1 & 2 CONST.
* S408	X	-	4	6'-5"			DECK - HORIZ. - TRANS. - BTWN. G3 & G4 - AT STAGE 1 CONST.
* S409	X	-	4	1'-1"			DECK - HORIZ. - TRANS. - BTWN. G3 & G4 - AT STAGE 2 CONST.
* S410	X	-	36	5'-3"	X		DECK/CONC. DIAPH. - VERT. - BTWN. GIRS. - AT STAGE 1 & 2 CONST.
* S711	X	-	18	7'-7"			CONC. DIAPH. - BOT. - HORIZ. - TRANS. - BTWN. GIRS. - AT STAGE 1 & 2 CONST.
* S712	X	-	6	6'-5"			CONC. DIAPH. - BOT. - HORIZ. - TRANS. - BTWN. G3 & G4 - AT STAGE 1 CONST.
* S713	X	-	6	1'-1"			CONC. DIAPH. - BOT. - HORIZ. - TRANS. - BTWN. G3 & G4 - AT STAGE 2 CONST.
S414	X	-	2	4'-3"	X		WING & PARAPET - VERT. - TRANS. - AT WING CORNERS 3
S415	X	-	7	4'-10"	X		PARAPET - VERT. - TRANS. - ABOVE DECK AND WINGS - AT WING CORNER 3
S516	X	-	1	0'-10"			MEDIAN PARAPET - F.F. - HORIZ. - LONGIT. - AT MEDIAN CORNER
S517	X	-	4	0'-10"			MEDIAN PARAPET - HORIZ. - LONGIT. - AT MEDIAN CORNER
S418	X	-	5	4'-3"	X		DECK & PARAPET - VERT. - TRANS. - AT WING CORNER 3 & MEDIAN CORNER
S519	X	-	1	3'-3"			DECK PARAPET - F.F. - HORIZ. - LONGIT. - AT MEDIAN CORNER
S520	X	-	4	2'-10"			DECK PARAPET - HORIZ. - LONGIT. - AT MEDIAN CORNER
S521	X	-	1	1'-5"			WING PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 3
S522	X	-	4	1'-0"			WING PARAPET - HORIZ. - LONGIT. - AT WING CORNER 3
S523	X	-	1	3'-0"			DECK PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 3
S524	X	-	4	3'-3"			DECK PARAPET - HORIZ. - LONGIT. - AT WING CORNER 3
** S525	X	-	66	2'-7"	X		PAVING BLOCK & ENDS OF ABUT. BACKWALL - VERT. - DOWEL - AT STAGE 1 & 2 CONST.
S426	X	-	6	4'-7"	X		PAVING BLOCK & PARAPET - VERT. - TRANS. - AT MEDIAN CORNER
S427	X	-	14	2'-4"			PARAPET - VERT. - TRANS. - ABOVE DECK AND PAVING BLOCK - AT MEDIAN CORNER
S528	X	-	3	4'-2"			PAVING BLOCK - HORIZ. - AT STAGE 1 CONST. - MEDIAN BETWEEN SB & NB
- - -	-	-	-	-	-	-	-

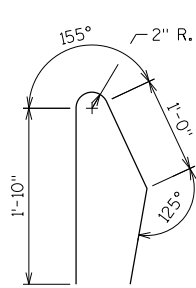
* BAR COUPLERS USED. BAR LENGTH COMPUTED UP TO THE LONGIT. CONST. JOINT AND SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURERS' RECOMMENDATIONS.
** ADHESIVE ANCHORS NO. 5 BAR.



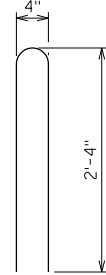
S401



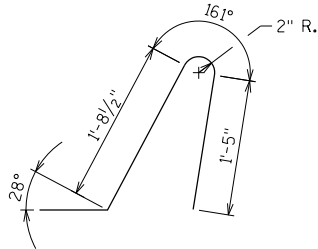
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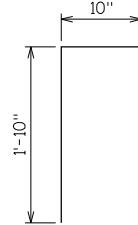
S414



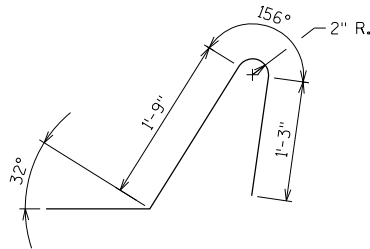
S415



S418



S525



S426

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-224			
DRAWN BY YC		PLANS CK'D. VCP	
SB JOINT REPAIR - BILL OF BARS		SHEET 7 OF 9	

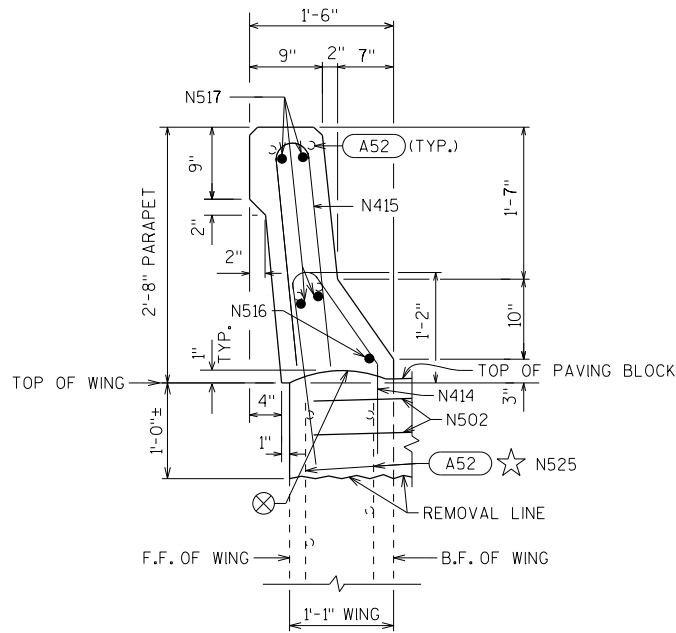
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SCALE

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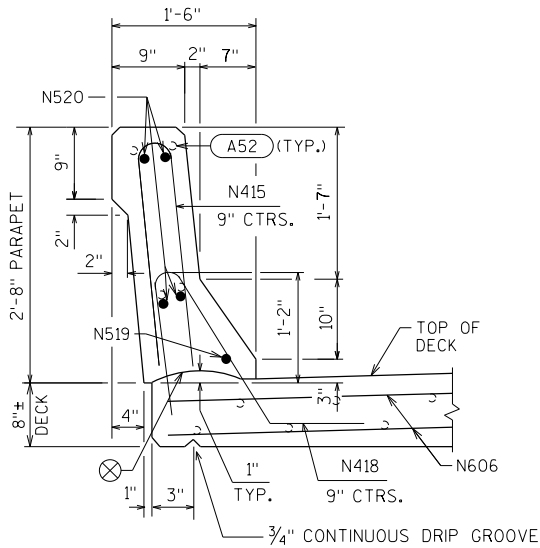
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NEW SECTION THRU EXTERIOR PARAPET ON WING



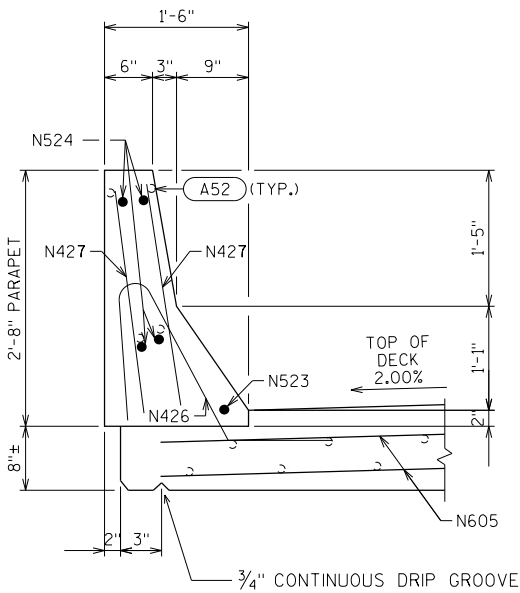
NEW SECTION THRU EXTERIOR PARAPET ON DECK

⊗ CONST. JOINT - STRIKE OFF AS SHOWN.

A52 SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.

THE NEW ADDITIONAL HORIZONTAL REINFORCEMENT REQUIRED IN THE PARAPETS SHALL BE TIED TO THE EXISTING HORIZONTAL REINFORCEMENT.

☆ IF EXISTING BARS ARE SEVERELY CORRODED OR DAMAGED DURING CONCRETE REMOVAL, REPLACE WITH BARS N525 ANCHORED WITH ADHESIVE ANCHORS NO. 5 BAR, EMBED BARS 1'-0" MIN. INTO EXISTING CONC. PLACE 4" CL. MIN. OF VERT. CONC. FACE.



NEW SECTION THRU MEDIAN PARAPET ON DECK

LOOKING WEST

NEW SECTION THRU MEDIAN PARAPETS ON BACKWALL

SEE SHEET 7

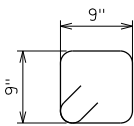
BILL OF BARS

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
BAR DIMENSIONS ARE OUT TO OUT OF BAR.

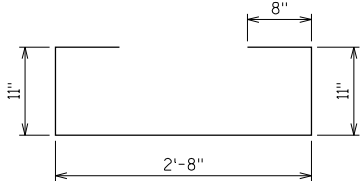
BAR MARK	COAT	NO. REQ'D		LENGTH	BENT	BAR SERIES	LOCATION
		NB E. ABUT.	NB W. ABUT.				
N401	X	-	61	3'-6"	X		PAVING BLOCK - VERT. - STIRRUP - AT STAGE 1 & 2 CONST.
N502	X	-	21	8'-0"			PAVING BLOCK - HORIZ. - AT STAGE 1 & 2 CONST.
N503	X	-	3	7'-7"			PAVING BLOCK - HORIZ. - AT STAGE 1 CONST.
N504	X	-	3	5'-10"			PAVING BLOCK - HORIZ. - AT STAGE 2 CONST.
N605	X	-	11	21'-6"			DECK - HORIZ. - TRANS. - TOP & BOT. - AT STAGE 1 CONST.
N606	X	-	11	40'-9"			DECK - HORIZ. - TRANS. - TOP & BOT. - AT STAGE 2 CONST.
N407	X	-	16	7'-7"			DECK - HORIZ. - TRANS. - BTWN. GIRTS. - AT STAGE 1 & 2 CONST.
N408	X	-	4	6'-9"			DECK - HORIZ. - TRANS. - BTWN. G7 & G8 - AT STAGE 1 CONST.
N409	X	-	4	0'-10"			DECK - HORIZ. - TRANS. - BTWN. G7 & G8 - AT STAGE 2 CONST.
N410	X	-	50	5'-3"	X		DECK/CONC. DIAPH. - VERT. - BTWN. GIRTS. - AT STAGE 1 & 2 CONST.
N711	X	-	24	7'-7"			CONC. DIAPH. - BOT. - HORIZ. - TRANS. - BTWN. GIRTS. - AT STAGE 1 & 2 CONST.
N712	X	-	6	6'-9"			CONC. DIAPH. - BOT. - HORIZ. - TRANS. - BTWN. G7 & G8 - AT STAGE 1 CONST.
N713	X	-	6	0'-10"			CONC. DIAPH. - BOT. - HORIZ. - TRANS. - BTWN. G7 & G8 - AT STAGE 2 CONST.
N414	X	-	2	4'-3"	X		WING & PARAPET - VERT. - TRANS. - AT WING CORNER 4
N415	X	-	7	4'-10"	X		PARAPET - VERT. - TRANS. - ABOVE DECK AND WINGS - AT WING CORNER 4
N516	X	-	1	1'-2"			WING PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 4
N517	X	-	4	1'-5"			WING PARAPET - HORIZ. - LONGIT. - AT WING CORNER 4
N418	X	-	4	4'-3"	X		DECK & PARAPET - VERT. - TRANS. - AT WING CORNER 4 & MEDIAN CORNER
N519	X	-	1	3'-3"			DECK PARAPET - F.F. - HORIZ. - LONGIT. - AT WING CORNER 4
N520	X	-	4	2'-10"			DECK PARAPET - HORIZ. - LONGIT. - AT WING CORNER 4
N521	X	-	1	0'-10"			ABUT. PARAPET - F.F. - HORIZ. - LONGIT. - AT MEDIAN CORNER
N522	X	-	4	0'-10"			ABUT. PARAPET - HORIZ. - LONGIT. - AT MEDIAN CORNER
N523	X	-	1	3'-0"			DECK PARAPET - F.F. - HORIZ. - LONGIT. - AT MEDIAN CORNER
N524	X	-	4	3'-3"			DECK PARAPET - HORIZ. - LONGIT. - AT MEDIAN CORNER
N525	X	-	79	2'-7"	X		PAVING BLOCK & ENDS OF ABUT. BACKWALL - VERT. - DOWEL - AT STAGE 1 & 2 CONST.
N426	X	-	7	4'-7"	X		PAVING BLOCK & PARAPET - VERT. - TRANS. - AT MEDIAN CORNER
N427	X	-	14	2'-4"			PARAPET - VERT. - TRANS. - ABOVE DECK AND PAVING BLOCK - AT MEDIAN CORNER
N428	X	-	4	4'-1"			DECK - HORIZ. - TRANS. - BTWN. G11 & G12 - AT STAGE 2 CONST.
N729	X	-	6	4'-1"			CONC. DIAPH. - BOT. - HORIZ. - TRANS. - BTWN. G11 & G12 - AT STAGE 2 CONST.
- - -							

* BAR COUPLERS USED. BAR LENGTH COMPUTED UP TO THE LONGIT. CONST. JOINT AND SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURERS' RECOMMENDATIONS.

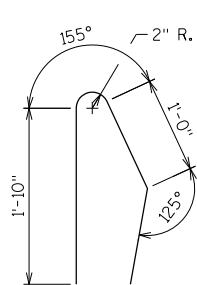
** ADHESIVE ANCHORS NO. 5 BAR.



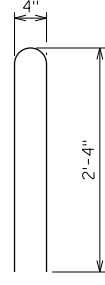
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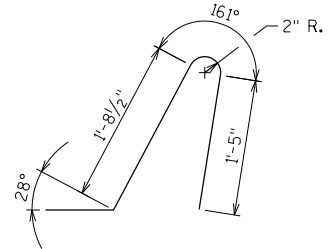
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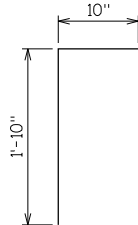
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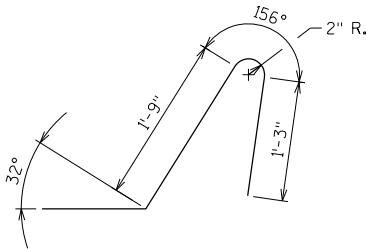
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N418



S525



S426

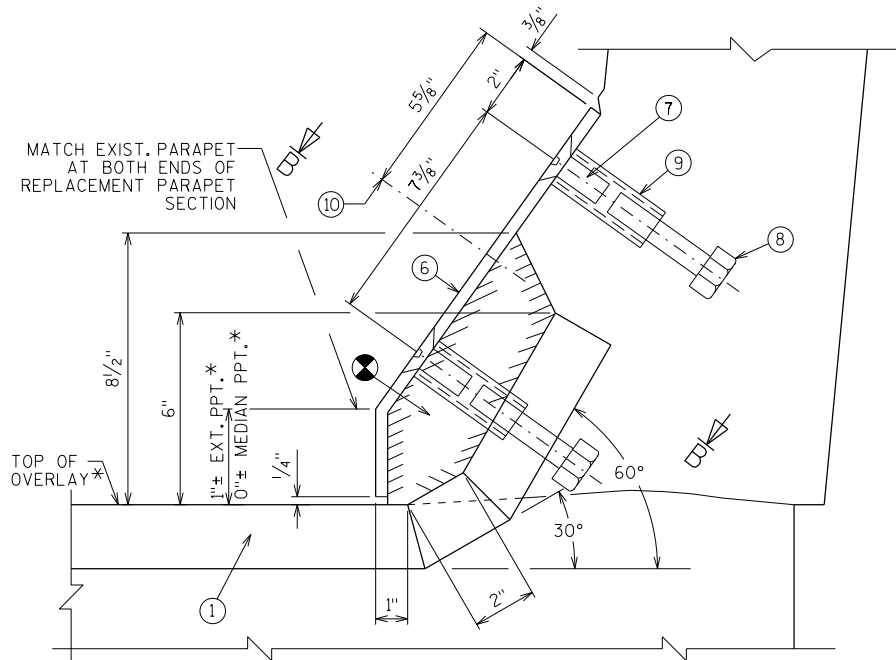
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-224			
DRAWN BY YC		PLANS CK'D. VCP	
NB JOINT REPAIR - BILL OF BARS		SHEET 8 OF 9	

8

FILENAME
SCALE

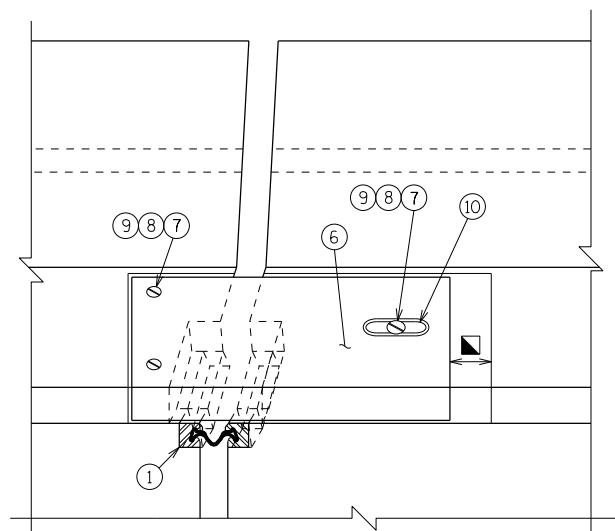
LEGEND

- ① NEOPRENE STRIP SEAL (4 - INCH) AND STEEL EXTRUSIONS.
- ② STUDS $\frac{5}{8}$ " ϕ X $6\frac{3}{8}$ " LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
- ⑥ GALVANIZED PLATE $\frac{3}{8}$ " X 1'-2" X 2'-0" LONG WITH HOLES FOR NO. 7. BEND AS SHOWN.
- ⑦ $\frac{3}{4}$ " ϕ X $1\frac{1}{2}$ " STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS $\frac{1}{16}$ " BELOW PLATE SURFACE.
- ⑧ $\frac{3}{4}$ " ϕ X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
- ⑨ $\frac{3}{4}$ " ϕ X $2\frac{1}{4}$ " GALVANIZED THREADED COUPLING.
- ⑩ 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.

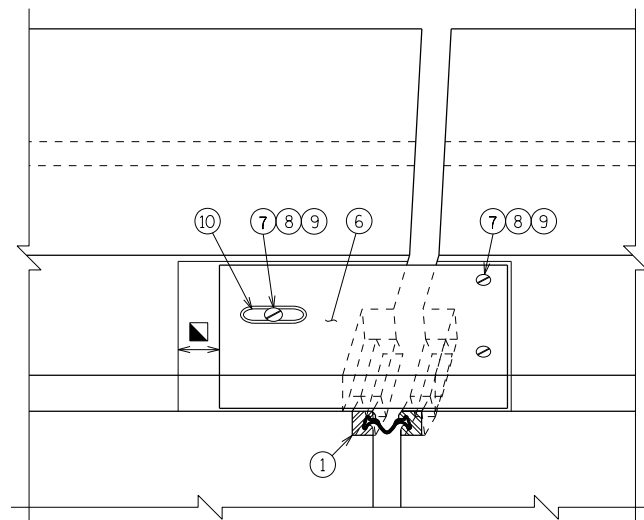


SECTION A-A

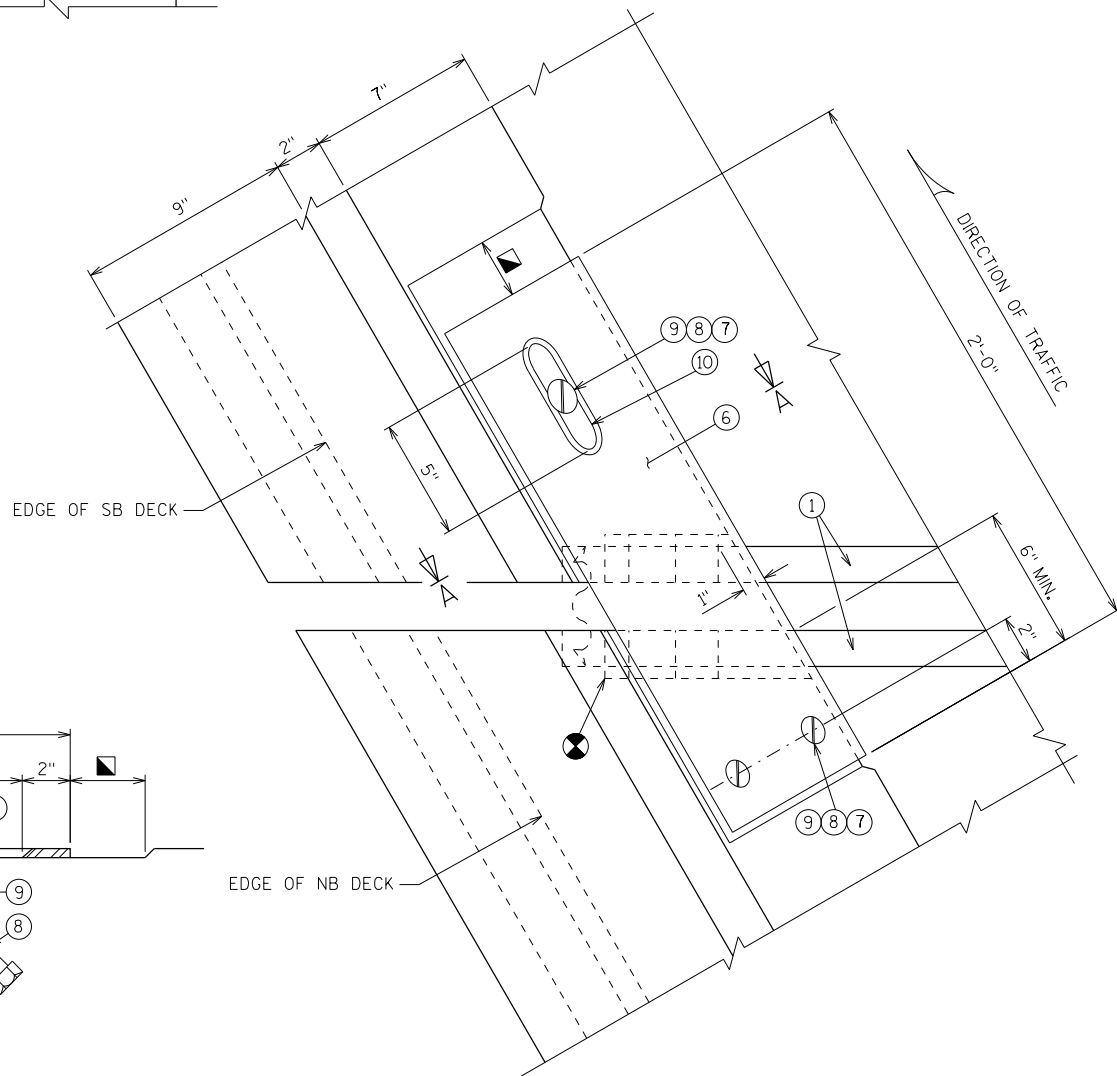
* TOP OF OVERLAY
@ 2" ABOVE TOP
OF ORIGINAL DECK.

VIEW OF PARAPET PLATE
FROM ROADWAY

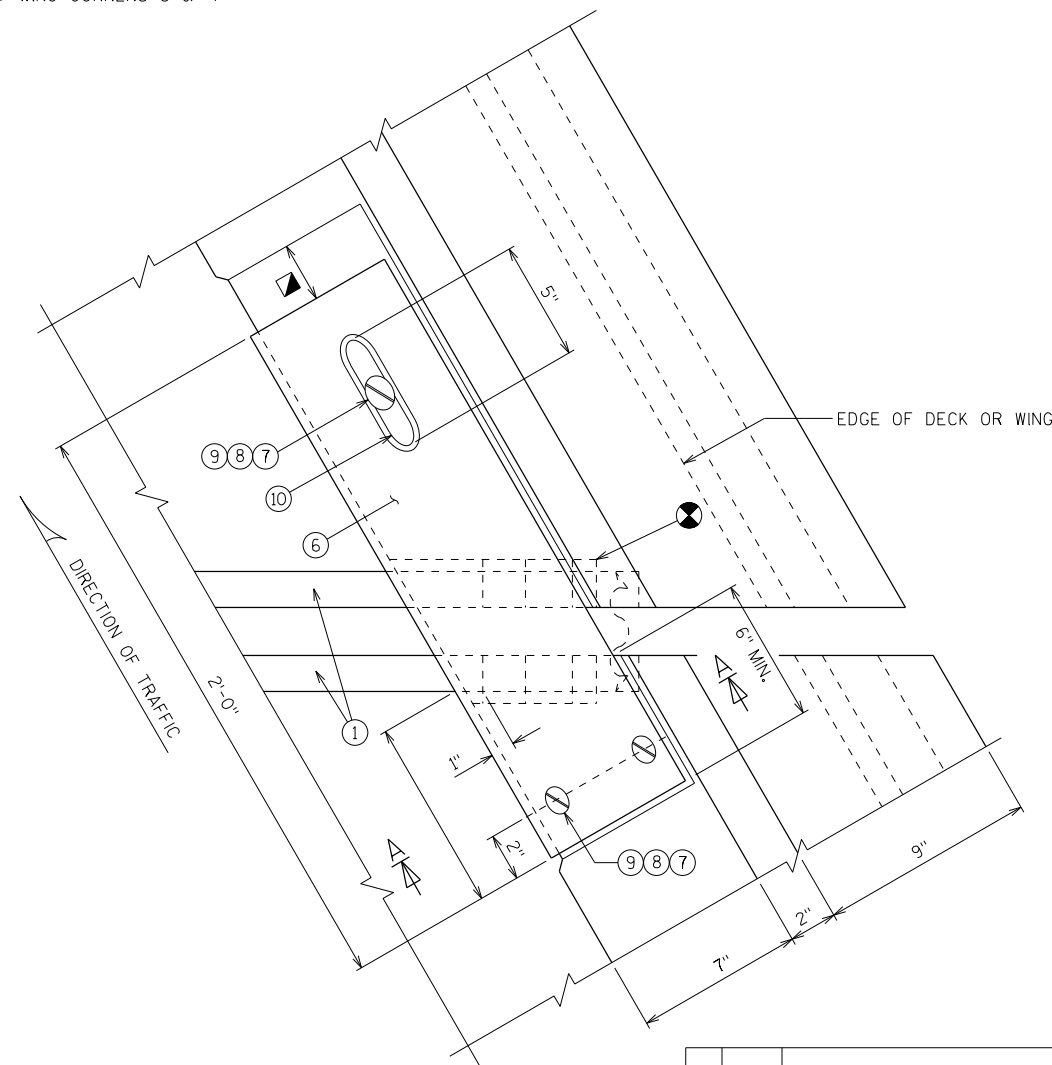
AT SB & NB MEDIAN CORNERS

VIEW OF PARAPET PLATE
FROM ROADWAY

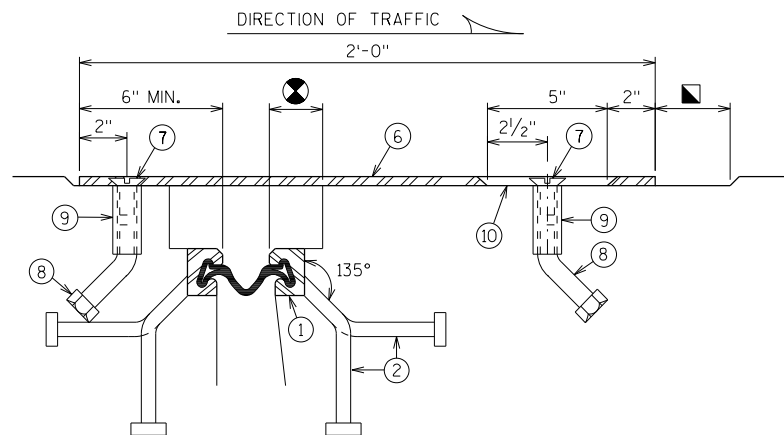
AT WING CORNERS 3 & 4



PLAN AT SB & NB MEDIAN CORNERS



PLAN AT WING CORNERS 3 & 4



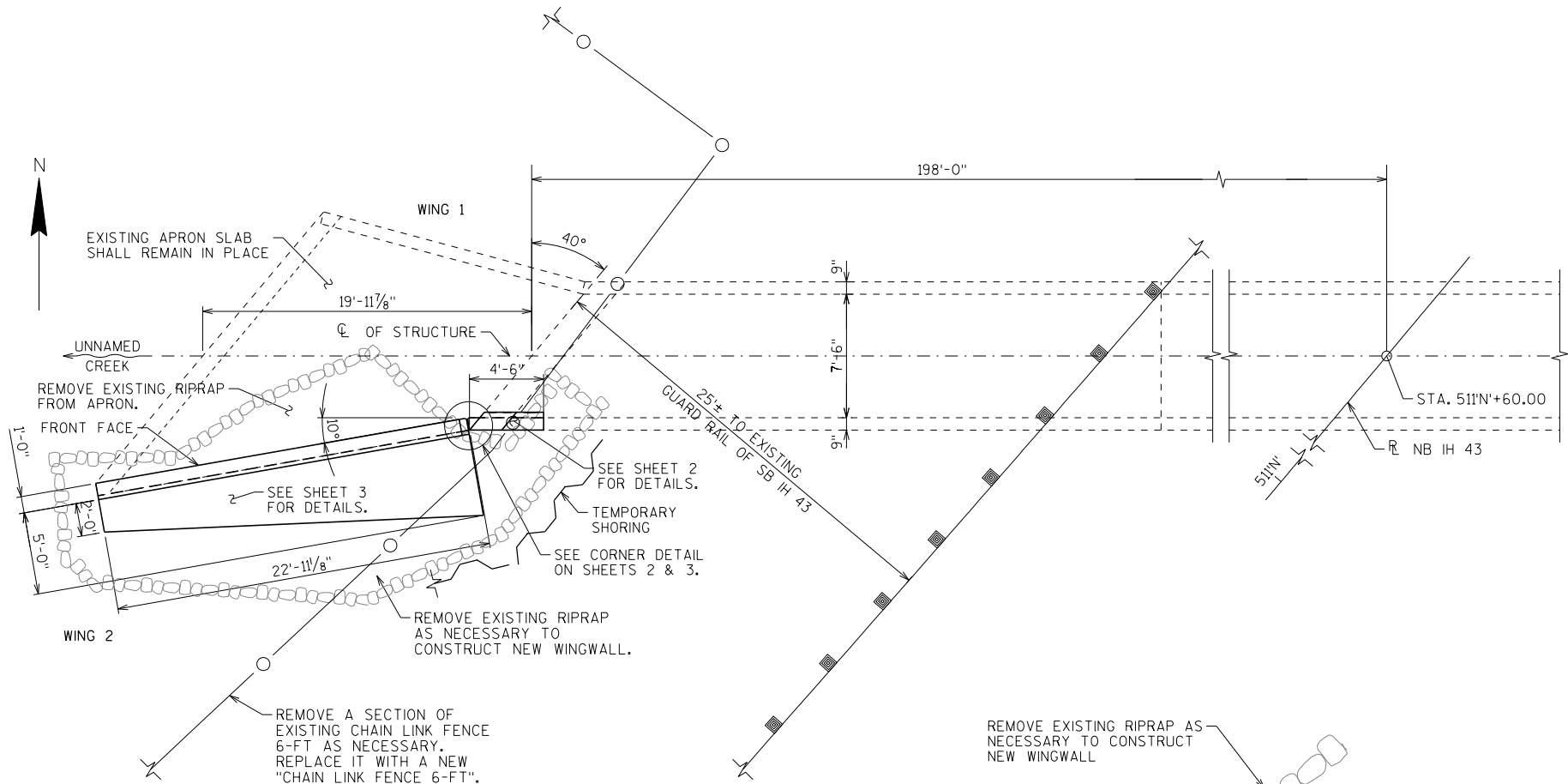
SECTION B-B

AT WING CORNER 3 & 4
OPPOSITE HAND AT MEDIAN CORNERS

⊗ BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.

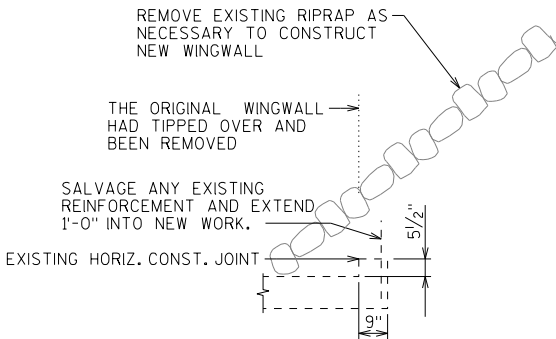
▣ JOINT OPENING DIMENSION ALONG SKEW PLUS $\frac{1}{2}$ ".

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-5-224			
DRAWN BY YC		PLANS CK'D. VCP	
COVER PLATE DETAILS		SHEET 9 OF 9	



PLAN

REPLACEMENT OF SOUTH WALL OF BARREL NEXT TO WING 2 AND NEW WING 2



SECTION THRU EXISTING WING 2 LOCATION

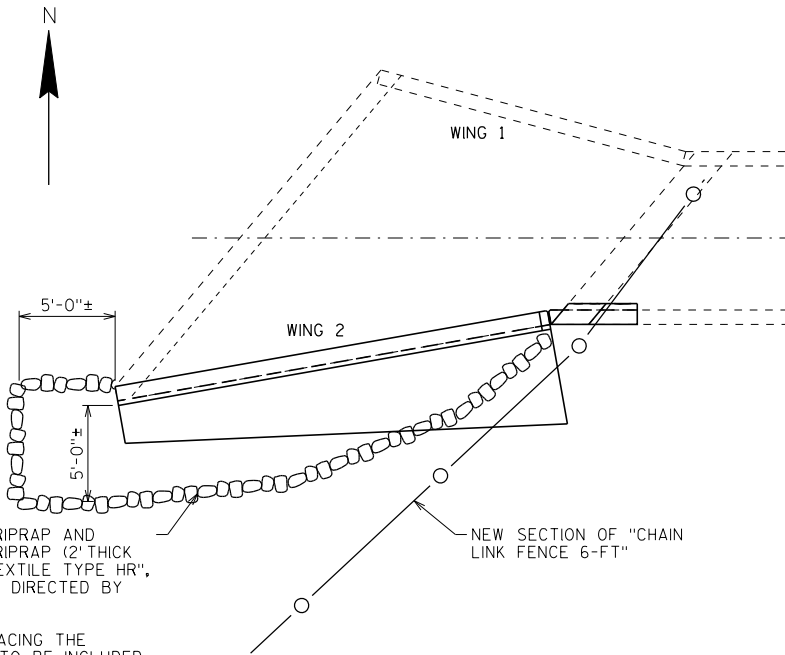
DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HS20
INVENTORY RATING: N/A
OPERATING RATING: N/A
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS
(TAKEN FROM HSI, 01/24/2017)

MATERIAL PROPERTIES:
CONCRETE MASONRY, CULVERTS: f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60: fy = 60,000 P.S.I.

TRAFFIC VOLUME

IH 43
A.D.T. = 51,800 (2036)
R.D.S. = 70 MPH



PLAN

SHOWING REUSED EXISTING RIPRAP AND NEW CHAIN LINK FENCE AFTER CONSTRUCTION OF REPLACEMENT BARREL WALL AND NEW WING 2

LIST OF DRAWINGS

1. GENERAL PLAN
2. REPLACEMENT OF SOUTH WALL OF BARREL NEXT TO WING 2
3. NEW WING 2

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
203.0200.04	REMOVING OLD STRUCTURE STA. 511N+60.00 BARREL WALL NEXT TO WING 2	LS	1
206.2000.01	EXCAVATION FOR STRUCTURES CULVERTS C-5-59	LS	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	120
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	11
504.0100	CONCRETE MASONRY CULVERTS	CY	12
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	900
511.1200.01	TEMPORARY SHORING C-5-59	SF	420
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	8
616.0206	FENCE CHAIN LINK 6-FT	LF	50
645.0120	GEOTEXTILE TYPE HR	SY	28
NON-BID ITEMS			
	PREFORMED JOINT FILLER	SIZE	3/4 "

BID ITEM "EXCAVATION FOR STRUCTURES CULVERTS C-5-59" INCLUDES REMOVAL OF EXISTING RIPRAP, AND REMOVAL OF EXISTING CHAIN LINK FENCE 6-FT.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS OF EXISTING STRUCTURE MEMBERS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

PLACE TEMPORARY SHORING AS DIRECTED BY THE ENGINEER TO LIMIT EXCAVATION.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-5-59" SHALL BE THE EXISTING GROUND LINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE OR RIPRAP SHALL BE BACKFILLED WITH "BACKFILL STRUCTURE TYPE A" TO THE TOP OF THE WING WITHIN THE LENGTH OF THE WINGWALL AND TO THE TOP OF BARREL WITHIN THE LENGTH OF NEW BARREL WALL.

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

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

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

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1INCH DEEP SAW CUT UNLESS OTHERWISE SHOWN OR NOTED.



V. Patel
DATE: 02/03/2017

STRUCTURE DESIGN CONTACTS

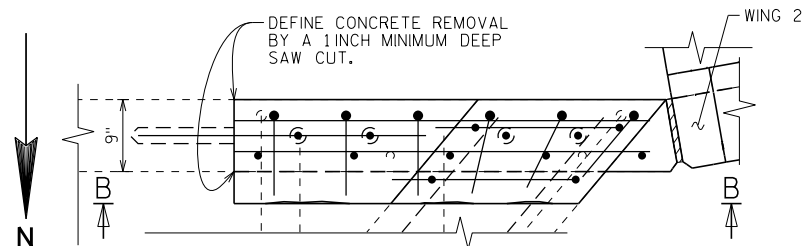
BRIDGE OFFICE: WILLIAM DREHER, P.E. (608) 266-8489
CONSULTANT: VINOD PATEL, P.E. (312) 616-7395

NO.	DATE	REVISION	BY
exp. U.S. Services Inc. Milwaukee, WI BUILDINGS • EARTH & ENVIRONMENT • ENERGY INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED _____		_____ DATE _____	
CHIEF STRUCTURES DESIGN ENGINEER		DATE	
STRUCTURE C-5-59			
IH 43 OVER UNNAMED CREEK			
COUNTY	BROWN	TOWN/CITY/VILLAGE	BELLEVUE
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY	YC	DESIGN CK'D.	VCP
DRAWN BY	YC	PLANS CK'D.	VCP
GENERAL PLAN		SHEET 1 OF 3	

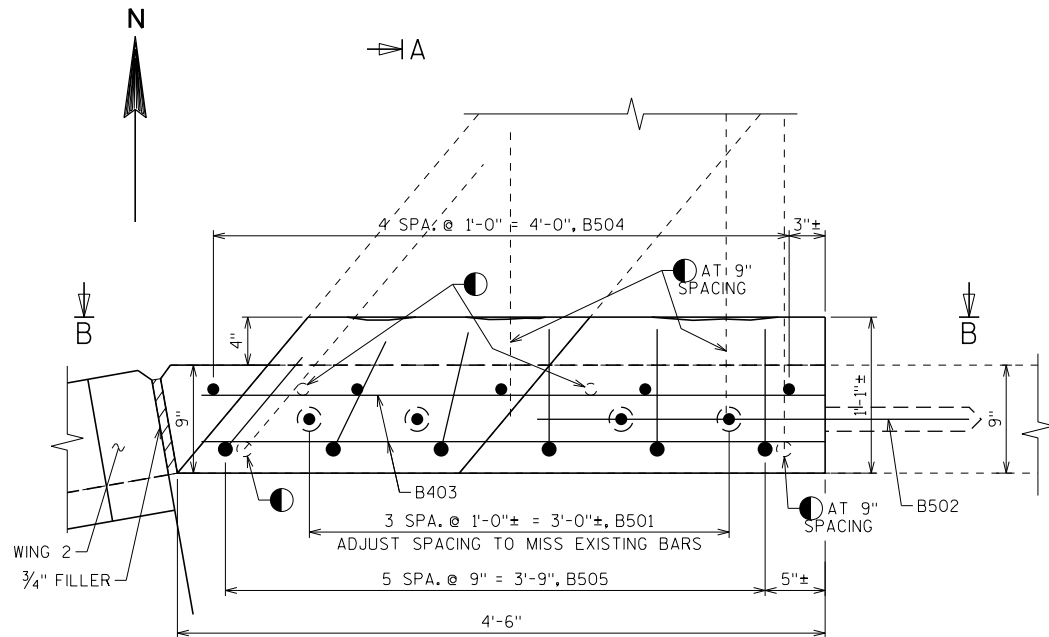
FILENAME
SCALE

\\\\PCHAPP004\\AM\\VAULT\\I.D.-TRANS_07\\TDCWIS\\00214891-A0\\STRUCT\\CAD\\59_C050059\\VIA_EXP\\SHEET\\02_SX59IA001.SHT
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2-03-2017, 15:41:34
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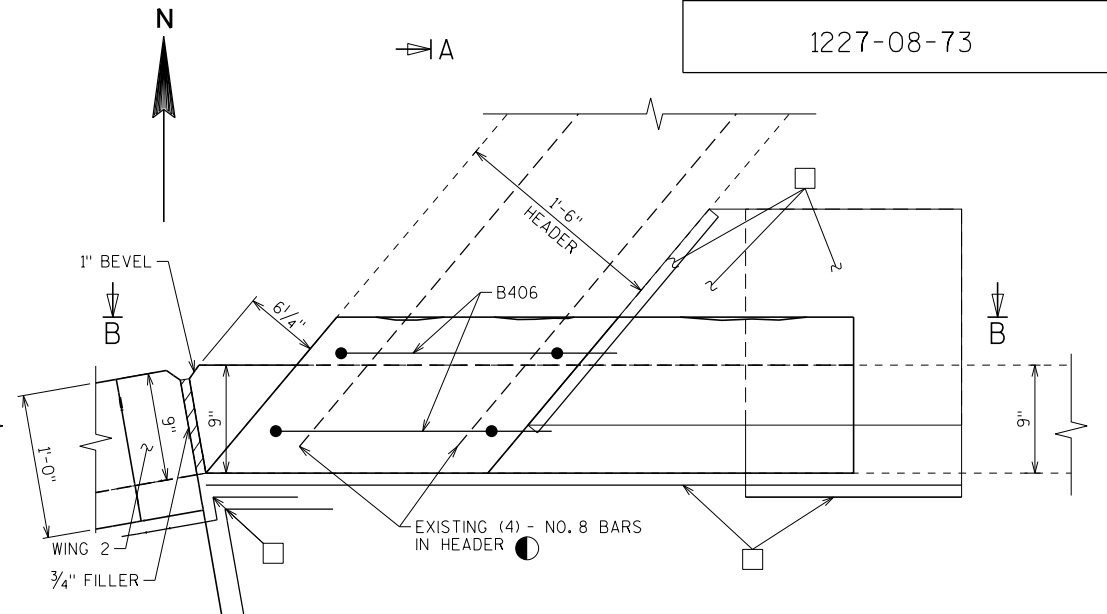


PLAN



PLAN

SHOWING REINFORCEMENT IN WALL AND TOP SLAB



PLAN

SHOWING REINFORCEMENT IN HEADER AND RUBBERIZED MEMBRANE WATERPROOFING

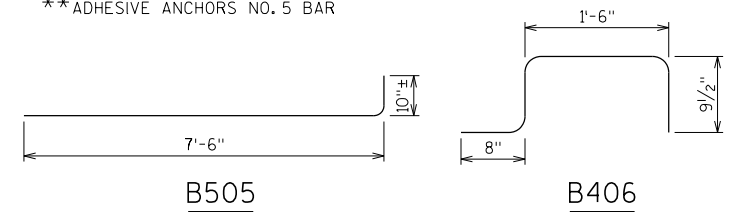
BILL OF BARS

BAR DIMENSIONS ARE OUT TO OUT OF BAR.

UNCOATED: 180 LBS
COATED: 0 LBS

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	LOCATION
B501		4	2'-3"		DOWEL - VERT.
B502		7	3'-0"		DOWEL - HORIZ.
B403		16	4'-4"		WALL - F.F. & B.F. - HORIZ.
B504		5	7'-4"		WALL - F.F. - VERT.
B505		6	8'-3"	X	WALL - B.F. - VERT.
B406		2	3'-6"	X	HEADER

** ADHESIVE ANCHORS NO. 5 BAR

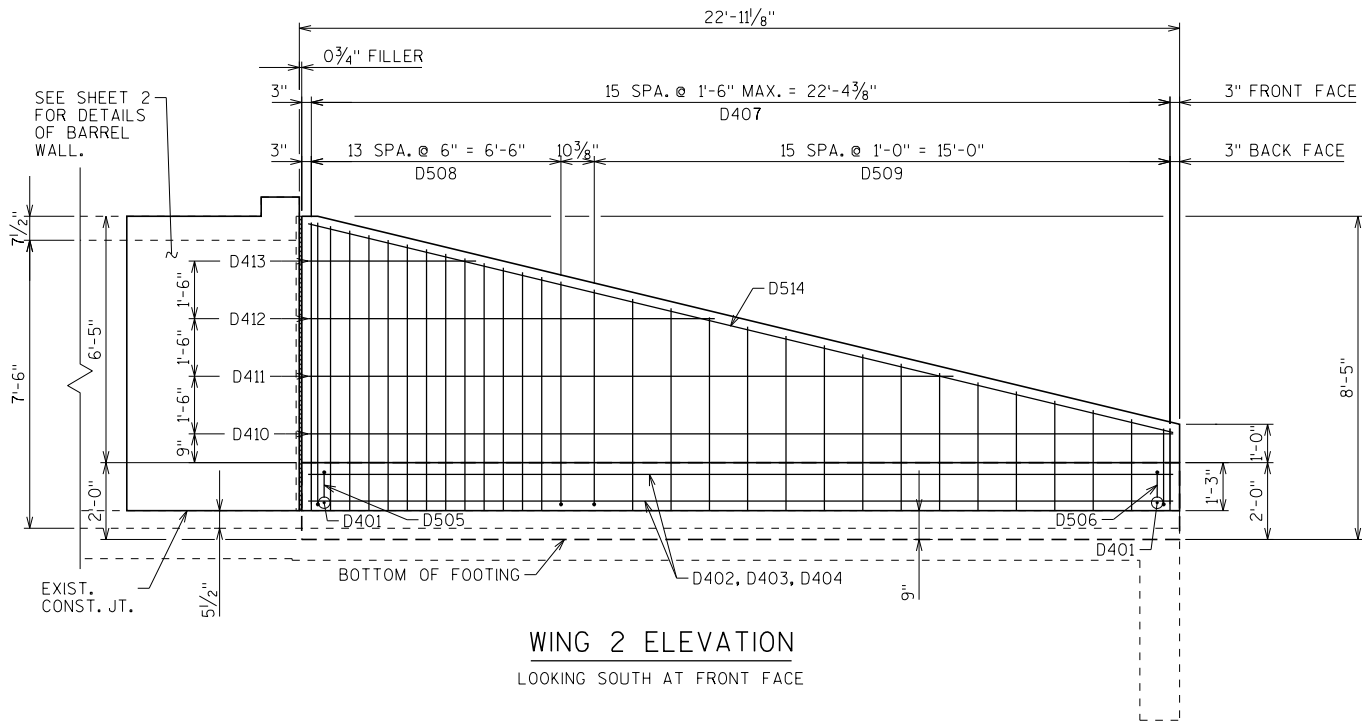


LEGEND

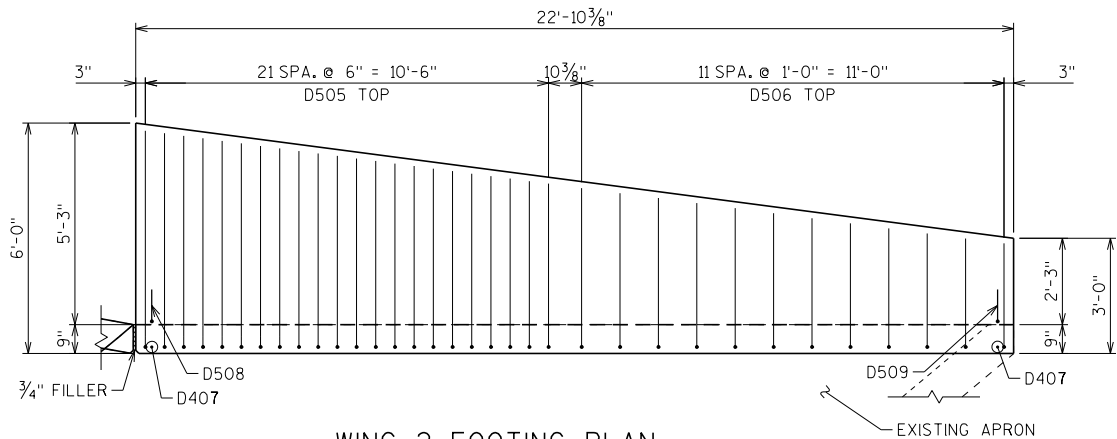
- PRESERVE EXISTING REINFORCEMENT AT TOP AND BOTTOM OF WALL AS SHOWN, AND INCORPORATE INTO NEW WORK (TYP.).
- 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS AT BACK FACE OF WALL. SEAL ALL HORIZONTAL AND VERTICAL JOINTS AT TOP OF TOP SLAB AND BACK FACE OF HEADER.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE C-5-59			
DRAWN BY YC		PLANS CK'D. VCP	
REPLACEMENT OF SOUTH WALL OF BARREL NEXT TO WING 2		SHEET 2 OF 3	

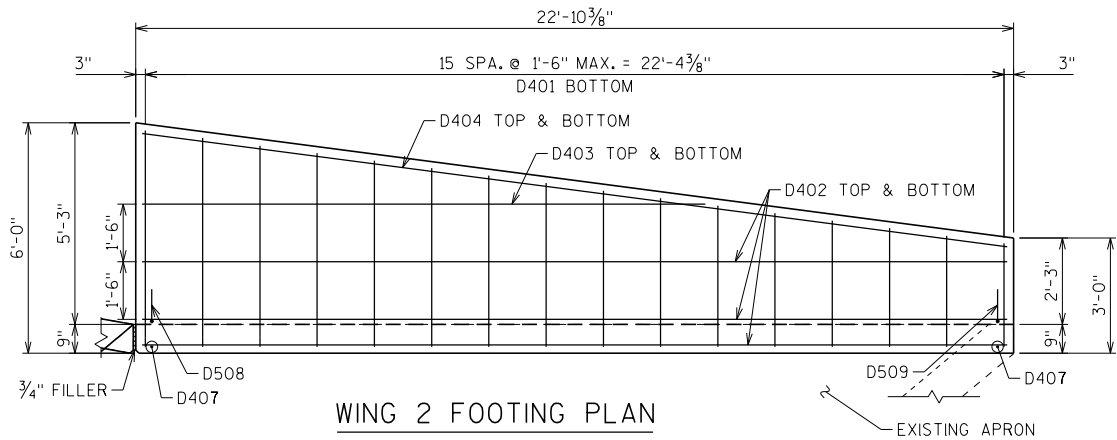
8



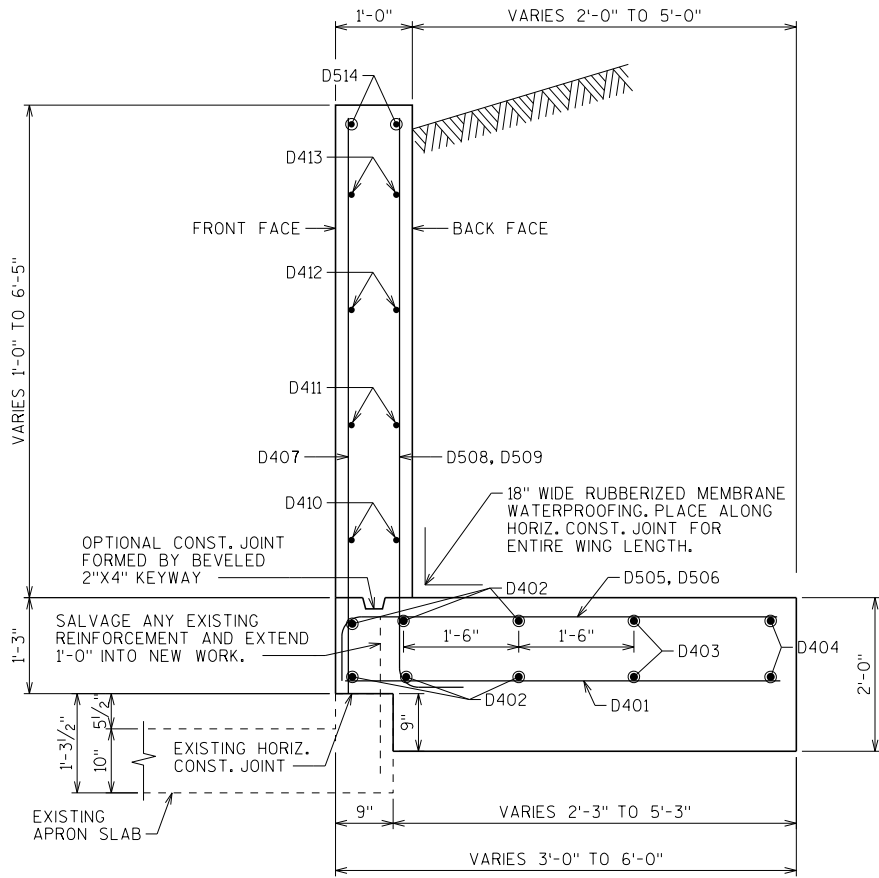
WING 2 ELEVATION
LOOKING SOUTH AT FRONT FACE



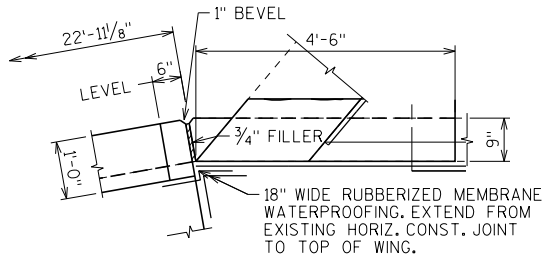
WING 2 FOOTING PLAN
SHOWING TOP TRANSVERSE BARS AND VERTICAL BARS



WING 2 FOOTING PLAN
SHOWING BOTTOM TRANSVERSE BARS,
TOP AND BOTTOM LONGITUDINAL BARS, AND
VERTICAL BARS



CROSS SECTION THRU PROPOSED WINGWALL
LOOKING TOWARD BOX



CORNER DETAIL

BILL OF BARS

BAR DIMENSIONS ARE OUT TO OUT OF BAR. UNCOATED: 720 LBS
COATED: 0 LBS

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
D401		16	4'-2"		*	FOOTING - BOTTOM - TRANS. - HORIZ.
D402		6	22'-6"			FOOTING - TOP & BOTTOM - LONGIT. - HORIZ.
D403		2	14'-8"			FOOTING - TOP & BOTTOM - LONGIT. - HORIZ.
D404		2	22'-8"			FOOTING - TOP & BOTTOM - LONGIT. - HORIZ.
D505		22	5'-8"	X	*	FOOTING - TOP - TRANS. - HORIZ.
D506		12	4'-1"	X	*	FOOTING - TOP - TRANS. - HORIZ.
D407		16	4'-10"		*	FOOTING & STEM - F.F. - VERT.
D508		14	7'-3"	X	*	FOOTING & STEM - B.F. - VERT.
D509		16	4'-6"	X	*	FOOTING & STEM - B.F. - VERT.
D410		2	22'-6"			STEM - F.F. & B.F. - HORIZ.
D411		2	16'-10"			STEM - F.F. & B.F. - HORIZ.
D412		2	10'-7"			STEM - F.F. & B.F. - HORIZ.
D413		2	4'-4"			STEM - F.F. & B.F. - HORIZ.
D514		2	23'-2"			STEM - TOP - ALONG SLOPE
- - -						

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

BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY.

BAR MARK	NO. REQ'D	LENGTHS FOR EACH SERIES	
D401	1 SERIES OF 16	2'-8"	TO 5'-7"
D505	1 SERIES OF 22	4'-11"	TO 6'-4"
D506	1 SERIES OF 12	3'-4"	TO 4'-10"
D407	1 SERIES OF 16	2'-1"	TO 7'-6"
D508	1 SERIES OF 14	6'-6"	TO 8'-0"
D509	1 SERIES OF 16	2'-8"	TO 6'-3"

STATE PROJECT NUMBER

1227-08-73

D505, D506, D508, D509

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE C-5-59			
		DRAWN BY	PLANS CK'D.
NEW WING 2		SHEET 3 OF 3	

DRAWINGS SHALL NOT BE SCALED.

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

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

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1/2" SAW CUT.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE TOP OF THE WING WITHIN THE LENGTH OF THE WING WALL.

CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

MATERIAL PROPERTIES:

CONCRETE MASONRY ————— $f'_c = 3,500$ P.S.I.
BAR STEEL REINFORCEMENT ————— $f_y = 60,000$ P.S.I.

FOUNDATION DATA:

ALLOWABLE SOIL BEARING PRESSURE = 2,000 P.S.F.

BID ITEM NO.	BID ITEMS	UNIT	TOTAL
203.0200	REMOVING OLD STRUCTURE STA. 901+00 NORTHWEST WING	LS	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-05-72	LS	1
206.5000	COFFERDAMS C-05-72	LS	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	9
502.4204	ADHESIVE ANCHORS NO. 4 BAR	EACH	11
504.0100	CONCRETE MASONRY CULVERTS	CY	5
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	430
511.1200	TEMPORARY SHORING C-05-72	SF	61
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	3
	NON-BID ITEMS		
	FILLER	SIZE	3/4"

[illegible]

LOOKING WEST AT F.F. OF WING WALL

13 SPA. @ 9" = 9'-9"

A605 (B.F.) & A406 (F.F.)

6" LEVEL

3"

3/4" JOINT FILLER

A407

A508

A403 @ 12" MAX.

5'-10 1/2"

2 SPA. @ 1'-0" BOTH FACES

10"

5 1/2"

9 1/2" APRON SLAB

TOP APRON SLAB TO TOP OF WALL

A504 @ 6" MAX.

EXISTING HORIZ. CONSTRUCTION JT.

BOT. OF NEW FTG.

BOT. EXISTING APRON SLAB

2'-0" FOOTING

2'-5 1/2"

TOP OF APRON SLAB TO TOP OF WALL

A402 @ 1'-0" MAX.

10'-4 1/2"

Technical drawing showing the cross-section of a foundation wall and footing. The drawing includes the following details:

- Reinforcement:**
 - Top of wall: A508, 2" CLR. (TYP.), A407 @ 1'-0" BOTH FACES.
 - Vertical wall: A605 @ 9", B.F. WALL.
 - Horizontal footing: A403 (triangle), A504 @ 6" MAX., A402 @ 1'-0" MAX.
- Dimensions:**
 - Overall width: 4'-6"
 - Overall height: 5'-11"
 - Top apron slab to top of wall: VARIES (5'-10 1/2" MAX.)
 - Vertical distance from top of wall to footing: 5 1/2"
 - Horizontal distance from wall face to footing centerline: 8 1/2"
 - Horizontal distance from footing centerline to existing horizontal construction joint: 6"
 - Horizontal distance from footing centerline to bottom of new footing: 5'-2 1/2"
 - Vertical distance from footing to bottom of existing apron slab: 9 1/2"
 - Vertical distance from footing to bottom of new footing: 2'-0"
 - Horizontal distance from wall face to footing: 4 1/4"
- Notes:**
 - 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING. PLACE ALONG HORIZ. CONST. JOINT FOR ENTIRE WING LENGTH.
 - EXISTING HORIZ. CONST. JOINT
 - BOT. OF NEW FTG.
 - BOT. OF EXISTING APRON SLAB

◀ HORIZ. CONST. JOINT W/ KEYWAY. FORM KEYWAY USING BEVELED 2X4.

▲ A401 ADHESIVE ANCHORS. EMBED 9" INTO SOUND CONCRETE & SPACE 1'-0" O.C. MAX. PAID FOR UNDER BID ITEM "ADHESIVE ANCHORS NO. 4 BAR".

▲ PLACE A403 BARS AS SHOWN UNDER WALL. 12" MAX. SPACING FOR REMAINING BARS.

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

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A401	X	11	2'-0"			HORIZ. CONST. JOINT DOWEL
A402	X	11	4'-10"			WING FOOTING
A403	X	14	9'-11"			WING FOOTING
A504	X	21	5'-7"	X		WING FOOTING
A605	X	14	4'-2"	X		WING VERT. BACK FACE
A406	X	14	3'-4"			WING VERT. FRONT FACE
A407	X	6	5'-8"			WING HORIZ. BOTH FACES
A508	X	2	10'-5"			WING HORIZ. BOTH FACES

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

BAR MARK	NO. REQ'D.	LENGTH
A605	1 SERIES OF 14	2'-6" TO 5'-9"
A406	1 SERIES OF 14	1'-8" TO 4'-11"
A407	2 SERIES OF 3	2'-9" TO 8'-7"

BUNDLE AND TAG EACH SERIES SEPARATELY.

REMOVE (OR CUT) EXISTING POLYVINYL CHLORIDE WATERSTOP & REPLACE WITH 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING. EXTEND FROM HORIZONTAL CONSTRUCTION JOINT TO TOP OF WING.

3/4" JOINT FILLER

2 3/8"

1 1/8"

6" (LEVEL)
(INCLUDES 3/4" JOINT FILLER)

10'-4 1/2"

EXISTING HEADER

STR
ALE
LAU

NO.	DATE

STRUCTURE DESIGN CONTACTS:

ALEXANDER CRABTREE (608) 266-3686
LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION						BY	
		BUREAU OF STRUCTURES							
ACCEPTED _____		CHIEF STRUCTURES DESIGN ENGINEER _____						DATE _____	
STRUCTURE C-05-72									
S.E. RAMP IH 43 SB OVER DRAINAGE WAY									
COUNTY	BROWN						TOWN/CITY/VILLAGE	GREEN BAY	
DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS									
DESIGNED BY	ARC	DESIGNED CK'D.	DLM	DRAWN BY	ARC	PLANS CK'D.	DLM		
GENERAL PLAN - WING REPLACEMENT						SHEET 1 OF 1			

DESIGN DATA

4-CHORD GALVANIZED STEEL SIGN BRIDGE	DESIGN SIGN AREA (SQ. FT.)	MAX. SIGN DEPTH
S-5-145	504	14'-0"

WIND VELOCITY = 90 MPH (3-SECOND GUST SPEED) TO SIGN AREA AND EXPOSED MEMBERS.
DEAD LOAD OF SIGNS IN 3 P.S.F.
DEAD LOAD - WEIGHT OF SIGN AND SUPPORTING SIGN STRUCTURE, NO PROVISIONS HAVE BEEN MADE TO ALLOW FOR LIGHTS AND CATWALKS.

ICE LOAD - 3 P.S.F. TO 1 FACE OF SIGN AND AROUND SURFACE OF MEMBERS.

WIND COMPONENTS	NORMAL	TRANSVERSE
COMBINATION 1	1.0	0.2
COMBINATION 2	0.6	0.3

GROUP LOADS	% OF ALLOWABLE STRESS
1. DEAD	100
2. DEAD + WIND	133
3. DEAD + ICE + 1/2 (WIND *)	133
* MIN. VALUE OF 25 PSF FOR GR. 3	

MATERIAL PROPERTIES:

CONCRETE MASONRY		f'c = 3,500 PSI
BAR STEEL REINFORCEMENT, GRADE 60		fy = 60,000 PSI
STEEL COLUMN & CHORDS	API-5L-X42	fy = 42,000 PSI **
PLATES, BARS, AND STRUCTURAL ANGLES	ASTM A709 GRADE 36	fy = 36,000 PSI
STEEL ANCHOR RODS WITH	ASTM F1554 GRADE 55	fy = 55,000 PSI
ASTM A563A HEAVY HEX NUTS		
AND ASTM F436 WASHERS		

** CONTRACTOR MAY SUBSTITUTE ALTERNATE MATERIALS PER WISDOT BRIDGE MANUAL SECTION 39.3 AT NO ADDITIONAL COST, PROVIDED THAT APPROVAL IS OBTAINED FROM THE DEPARTMENT.

GENERAL NOTES

- EXACT LOCATION OF SIGN BRIDGE SHALL BE DETERMINED BY REGION TRAFFIC ENGINEER.
DRAWINGS SHALL NOT BE SCALED.
CENTER SIGNS VERTICALLY ON THE TRUSS.
CONTRACTOR SHALL VERIFY UTILITY INTERFERENCES PRIOR TO CONSTRUCTION OF FOOTINGS.
ALTERNATE DESIGNS ARE NOT ALLOWED.
ALL H.S. STRUCTURAL STEEL MEMBERS, PLATES, ANCHOR RODS, H.S. BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED PER SECTION 641 OF THE WISDOT STANDARD SPECIFICATIONS.
ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIA. A325 GALVANIZED BOLTS, AND INSTALLED WITH DTI WASHERS.
WELDED CONNECTIONS CAN BE USED IN LIEU OF BOLTED CONNECTIONS, IF UNIT CAN BE GALVANIZED IN ONE PIECE.
WELD TEST AS PER AWS D1.1.
THE STRUCTURE MUST BE ASSEMBLED IN THE SHOP TO ASSURE FIT UP PER SECTION 641.3.3 OF THE WISDOT STANDARD SPECIFICATIONS.
DESIGNED ACCORDING TO THE 2013 6TH EDITION OF AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS".
CONTRACTOR SHALL VERIFY DIMENSIONS PRIOR TO FABRICATION OF STRUCTURE.
SEE SIGN PLATE NO. A4-6 OF THE SIGN PLATE MANUAL FOR INSTRUCTION ON CENTERING SIGN VERTICALLY ON TRUSS.

STRUCTURE DESIGN CONTACTS:
MICAH BROOKS (608) 266-5080
LAURA SHADEWALD (608) 267-9592

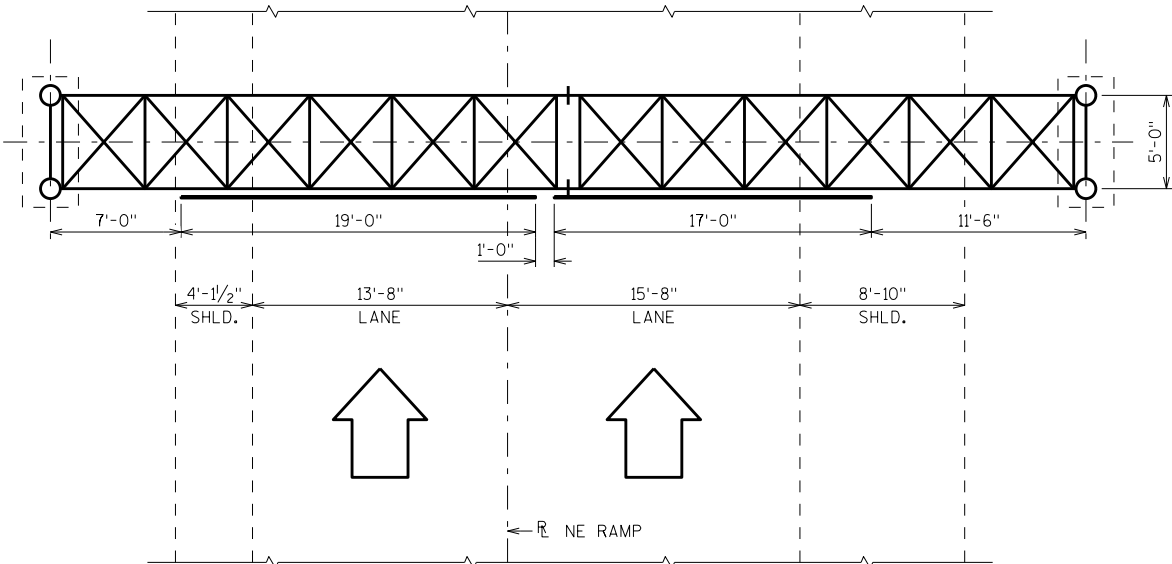
LIST OF DRAWINGS

1. SIGN BRIDGE LAYOUT

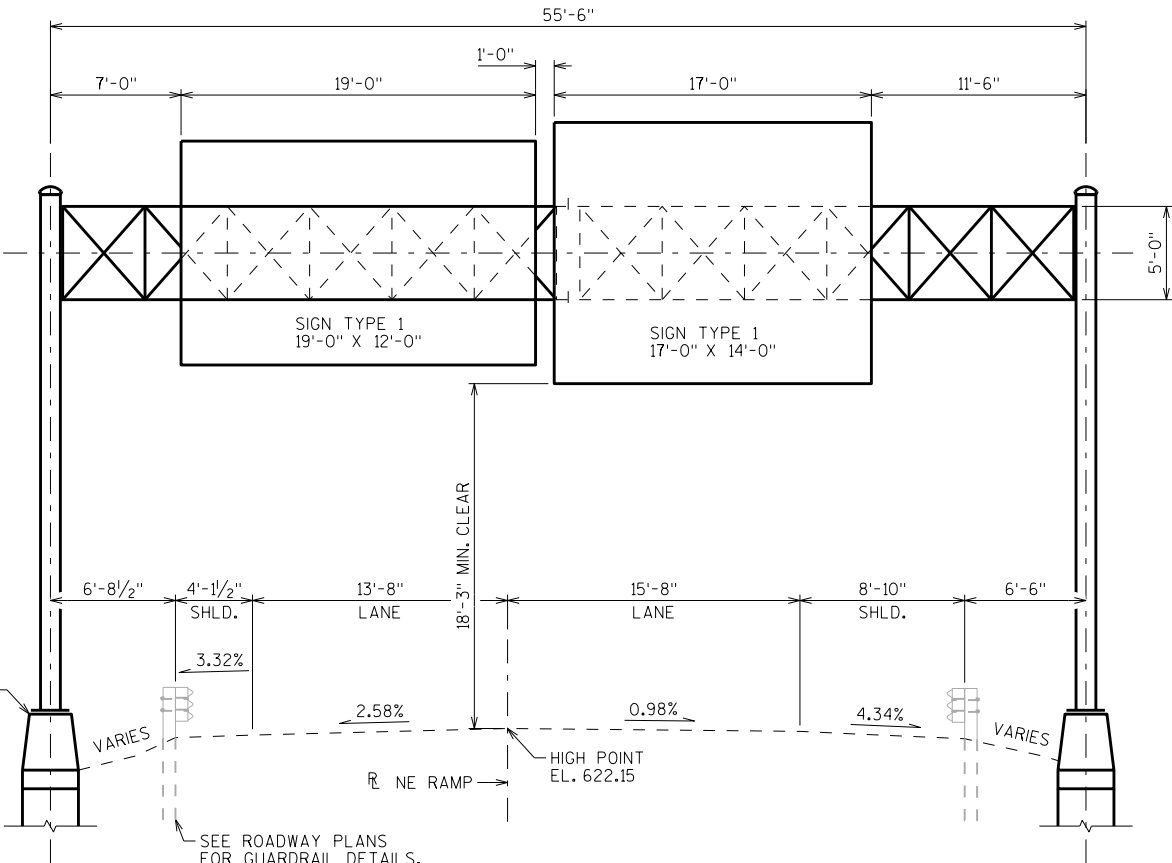
TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
203.0200	REMOVING OLD STRUCTURE STA. 3568+30	LS	1
636.0100	SIGN SUPPORTS CONCRETE MASONRY	CY	
636.1000	SIGN SUPPORTS STEEL REINFORCEMENT HS	LB	
641.6600	SIGN BRIDGE S-5-145	LS	1

NO.	DATE	REVISION	BY
			
ACCEPTED CHIEF STRUCTURES DESIGN ENGINEER _____ DATE _____			
STRUCTURE S-5-145			
IH 43 NB RAMP TO STH 54/57			
COUNTY	BROWN	CITY	GREEN BAY
DESIGN SPEC. AASHTO SIGN SPECIFICATIONS 6TH EDITION 2013			
DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
MWB	DLM	MWB	DLM
SIGN BRIDGE LAYOUT			SHEET 1 OF 1



PLAN



ELEVATION

STA. 3568+30 NE RAMP
LOOKING NORTH AT F.F. OF SIGNS

PRELIMINARY PLAN

EPlans Preliminary Sheet Numbering Tool

This sheet: ftp://ftp.dot.state.wi.us/transp/roads/eplans/prelim_sheet_numbers.pdf

Notes

- Acrobat 5 or higher is required to use this tool.
- The Bureau of Highway Construction places sheet numbers in the final plan.
- This sheet is for placing preliminary sheet numbers with a "PRE_" prefix.
- If a plan contains multiple projects, number each plan individually.
- Leave this sheet in the plan.

TO ADD PRELIMINARY SHEET NUMBERS

1. Insert this sheet at the end of the plan

- a. With the plan open in Acrobat, select Document > Insert Pages.
- b. In the Select File to Insert dialog box, select this file (prelim_sheet_numbers.pdf)
- c. In the Insert dialog box, choose After for Location and Last page for Page.
- d. Click OK.

2. Click the Place Preliminary Sheet Numbers button

- a. Go to the last sheet of the plan.
- b. Click the Place Preliminary Sheet Numbers button once.
(The preliminary sheet number appears in the bottom right corner of the sheets.
The number should match the page number in the Acrobat Status bar).

3. Re-Save the PDF

- a. Select File > Save As and save the PDF.

TO REMOVE PRELIMINARY SHEET NUMBERS