PROJE WITH: N CI

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MAD MARCH 2014

ORDER OF SHEETS

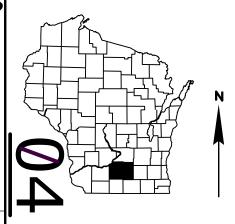
Section No. 1 Title Section No. 2 Typical Sections and Details Estimate of Quantities Section No. 3 Miscellaneous Quantities Section No. 3 Right of Way Plat

Section No.

Section No. 6 Standard Detail Drawings Section No. 7 Sign Plates

Structure Plans Section No. 8 Computer Earthwork Data Section No. 9 Section No. 9 Cross Sections

TOTAL SHEETS = 786



DESIGN DESIGNATION USH 12

A.A.D.T. (2011) = 118.500 A.A.D.T. (2031) = 128,300 D.H.V. (2038) = 12,158 D.D. 51/49 7.0% DESIGN SPEED 60 MPH ESALS 11,899,000

CONVENTIONAL SYMBOLS

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

COMBUSTIBLE FLUIDS

MARSH AREA

WOODED OR SHRUB AREA

STATE OF WISCONSIN

STRUCTURE B-13-37

STRUCTURE B-13-318

DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

MADISON, SOUTH MADISON BELTLINE

Addendum No. 1 ID 1206-04-62 Revised Sheets: 57, 58, 327,

331, 332, 333, 334, 335, 359

March 5, 2014

Addendum No. 2 ID 1206-04-62

Revised Sheets: 16, 17, 18, 328, 329, 350, 351

March 6, 2014

Section No. 8. Sheet 488 & 489 are replaced with Sheet 488A & 489A. Added Sheets 489B, 489C, 501A, 501B, 509A.

STRUCTURES B-13-17/192

BEGIN PROJECT STA 472EB+02.60

> X = 810750.8008Y = 468458.8741

> > STRUCTURES B-13-16/191

PROFILE GRADE LINE

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

GRADE ELEVATION

TELEPHONE POLE

CULVERT (Profile View) UTILITIES COMMUNICATION OVERHEAD COMMUNICATION UNDERGROUND ELECTRIC OVERHEAD ELECTRIC UNDERGROUND

GAS SANITARY SEWER STORM SEWER WATER UTILITY PEDESTAL Д POWER POLE

ROCK _ LABEL _ _ — с-он — —— c-uc —

₫ Ø TODD DRIVE - IH 39/90

USH 12 DANE COUNTY

> STATE PROJECT NUMBER 1206-04-62

> > STRUCTURE B-13-280

AS-BUILT PLAN

SUPERVISOR: Brenda Schoenfeld PROJECT MANAGER: David Layton PROJECT LEADER: Kevin Eslick (AECOM) CONTRACTOR: Zignego Company, Inc. WORK STARTED: 4/23/2014 WORK COMPLETED: 8/28/2015

> END PROJECT STA F126EB+95.79

SIGN STRUCTURES

S-13-068 S-13-069 S-13-070 S-13-071 S-13-072 S-13-073 S-13-074 S-13-149 S-13-150 S-13-151 S-13-153 S-13-157

TOTAL NET LENGTH OF USH 12 MADISON BELTLINE CENTERLINE = 8.200 MI.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD 88 (2011).

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

Subcontractor List Barricade Flasher Service, Inc. Diamond Surface, Inc Iverson Construction, LLC King Cut Concrete Cutters, Inc. Mega Rentals, Inc Mid-State Concrete Cutting Co. Moore Surveying LLC Parisi Construction Co. Inc. Payne and Dolan, Inc. PCI Roads, LLC **Red Arrow Electric** Schrock Trucking LLC State Contractors Inc Surf Prep, Inc **Surface Construction** Sweep-All

FEDERAL PROJECT

CONTRACT

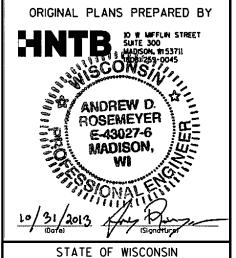
1

PROJECT

WISC 2014063

STATE PROJECT

1206-04-62



DEPARTMENT OF TRANSPORTATION

PREPARED BY Surveyor HNTR Designer DAVID LAYTON Project Manager Regional Examiner Regional Supervisor C.O. Examiner

APPROVED FOR THE DEPARTMENT

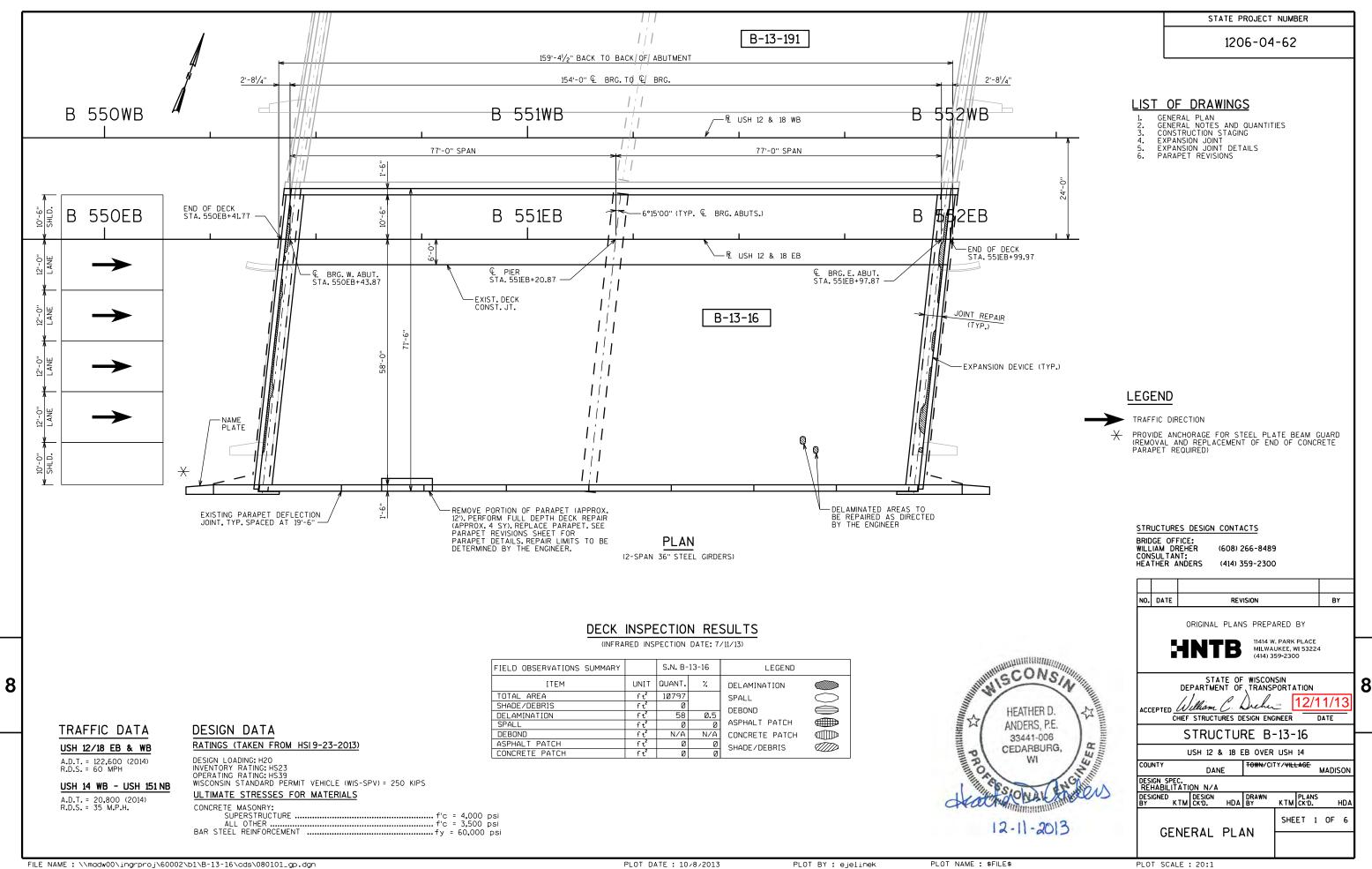
Brenda Schoenfeld DATE: 10/31/2013

1//////

PL + 58.1

1.0 MI.

LAYOUT



DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN

INFRARED INSPECTION DATA PROVIDED FOR INFORMATION ONLY. INFRARED INSPECTION DATE: 7-11-2013

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER:

- CRACK SEALING EPOXY - CONCRETE SURFACE REPAIR
- FULL DEPTH DECK REPAIR
- PREPARATION DECKS TYPE 1 AND 2
- SAWING PAVEMENT DECK PREPARATION AREAS

QUANTITES SHOWN FOR THE ABOVE BID ITEMS ARE APPROXIMATE.

UNDER THE BID ITEMS "MASONRY ANCHORS TYPE L", ANCHORED REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFORCEMENT.

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

ALL REINFORCING BARS ARE ENGLISH. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

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

EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE, SHALL BE PAID FOR IN THE LUMP SUM PRICE BID AS "EXPANSION DEVICE B-13-16".

CLEAN AND FILL EXISTING LONGITUDINAL AND TRANSVERSE CRACKS WITH PENETRATING EPOXY AS DIRECTED BY THE FIELD ENGINEER.

PROTECTIVE SURFACE TREATMENT, PAID FOR UNDER "PROTECTIVE SURFACE TREATMENT RESEAL" SHALL BE APPLIED ON STRUCTURE B-13-16 TO THE FOLLOWING SURFACES:

- TOP OF EXISTING DECK SLAB
- TOP AND INSIDE FACES OF EXISTING PARAPETS

"PROTECTIVE SURFACE TREATMENT" SHALL BE APPLIED ON STRUCTURE B-13-16 TO THE FOLLOWING COMPLETED SURFACES:

- TOP OF DECK SLAB AT NEW CONCRETE SURFACES RELATED
- TO JOINT REPAIR AND FULL DEPTH DECK REPAIR AT BRIDGE PARAPET
- TOP AND INSIDE FACES OF NEW CONCRETE AT PARAPET REPAIRS/REPLACEMENTS

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M153 TYPE 1, 2, OR 3, OR AASHTO M213.

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1" JOINT FILLER WITH HOT POURED JOINT SEALANT ($\frac{1}{2}$ " DEEP AND HOLD $\frac{1}{4}$ " BELOW SURFACE OF CONCRETE).

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

THE EASTBOUND AND WESTBOUND ALIGNMENTS SHOWN ON THE PLANS ARE PARALLEL TO EACH OTHER.

NEW CONCRETE AT JOINT REPAIR IS PAID FOR AS "CONCRETE MASONRY OVERLAY DECKS".

INSTALL AT PAVING NOTCH A NEW 1" PREFORMED JOINT FILLER WHICH SHALL BE CONSIDERED INCIDENTAL TO "CONCRETE MASONRY OVERLAY DECKS".

"REMOVING OLD STRUCTURE STA.551EB+20" INCLUDES PARTIAL REMOVAL OF SW WINGWALL PARAPET, PARTIAL REMOVAL OF SOUTH PARAPET ON BRIDGE AND PRESERVING AND REUSING REINFORCEMENT IN PORTION OF PARAPET REPAIR/REPLACEMENT ON BRIDGE.

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

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW ORIGINAL CONSTRUCTION YEAR.

"CONCRETE MASONRY BRIDGES" INCLUDES CONCRETE REQUIRED TO REPAIR/REPLACE PORTION OF SOUTH PARAPET AT WING AND ON BRIDGE AS INDICATED ON PLANS. REMOVAL PORTION OF SOUTH PARAPET IS APPROXIMATE AND SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. QUANTITY FOR "CONCRETE MASONRY BRIDGES" ON BRIDGE IS APPROXIMATE.

BEVEL EDGES OF EXPOSED CONCRETE TO MATCH EXISTING BEVELS UNLESS OTHERWISE NOTED.

STATE PROJECT NUMBER

1206-04-62

TOTAL ESTIMATED QUANTITIES

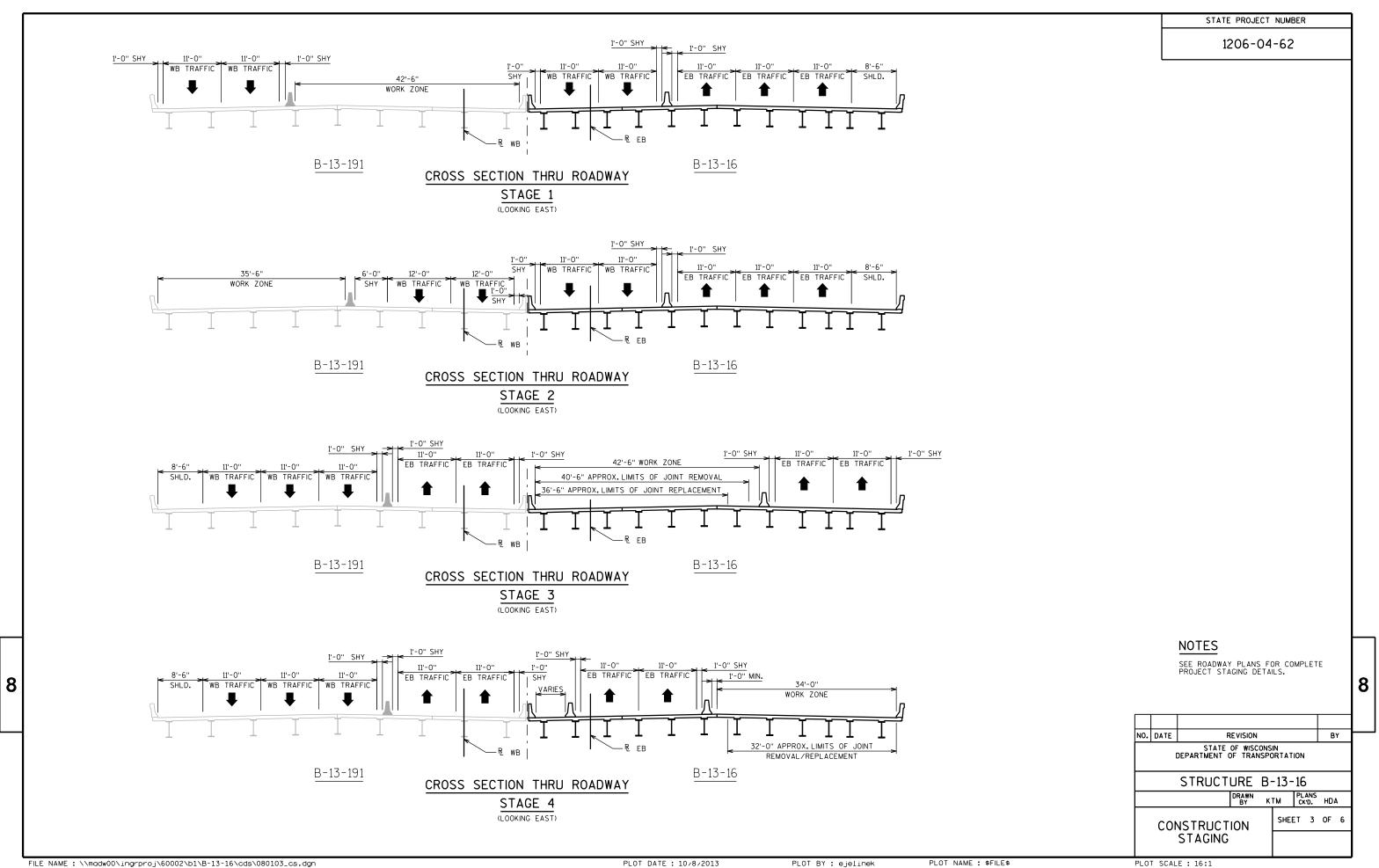
ITEM NO.	BID ITEM	UNIT	TOTAL
203.0200.01	REMOVING OLD STRUCTURE STA. 551EB+20	LS	1
502.0100	CONCRETE MASONRY BRIDGES	CY	2
502 . 0717 . S	CRACK SEALING EPOXY	LF	600
502.3100.01	EXPANSION DEVICE B-13-16	LS	1
502.3200	PROTECTIVE SURFACE TREATMENT	SY	69
502.3215.S	PROTECTIVE SURFACE TREATMENT RESEAL	SY	1,274
502.5005	MASONRY ANCHORS TYPE L NO.5 BARS	EACH	154
502.5010	MASONRY ANCHORS TYPE L NO.6 BARS	EACH	3
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	4,470
509.0301	PREPARATION DECKS TYPE 1	SY	2
509.0302	PREPARATION DECKS TYPE 2	SY	1
509.1000	JOINT REPAIR	SY	61
509.1500	CONCRETE SURFACE REPAIR	SF	20
509.2000	FULL-DEPTH DECK REPAIR	SY	4
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	17
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	1
SPV.0035.01	CONCRETE MASONRY DECK PATCHING	CY	1
SPV.0090.04	SAWING PAVEMENT DECK PREPARATION AREAS	LF	35
SPV.0180.03	CLEAN ABUTMENT SEATS	SY	36
	NON-BID ITEMS		
	Sib il Ellio		
	NAME PLATE	EACH	1
	PREFORMED JOINT FILLER	SIZE	1''

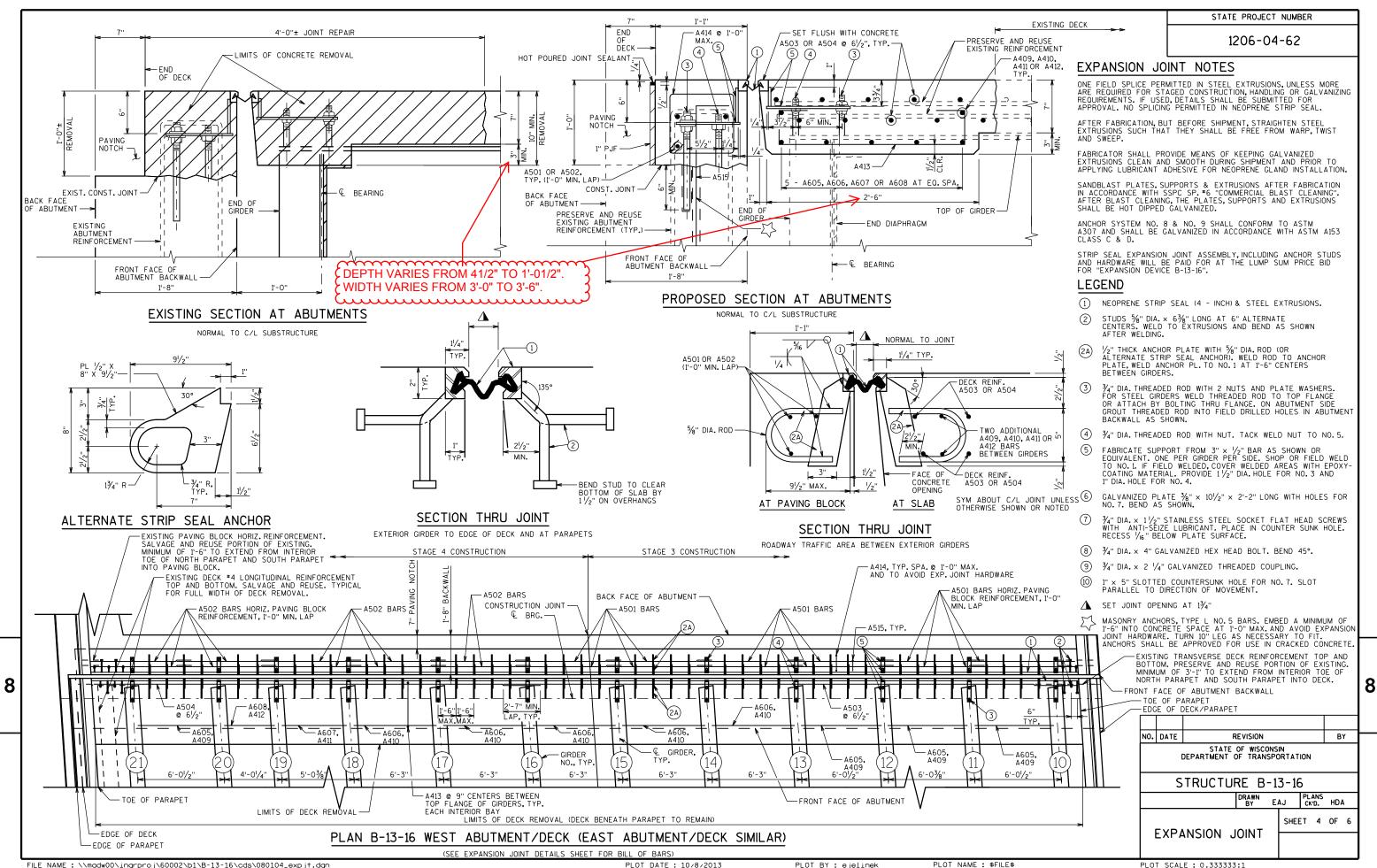
ALL ITEMS ARE CATEGORY 0030

NO. DATE REVISION BY

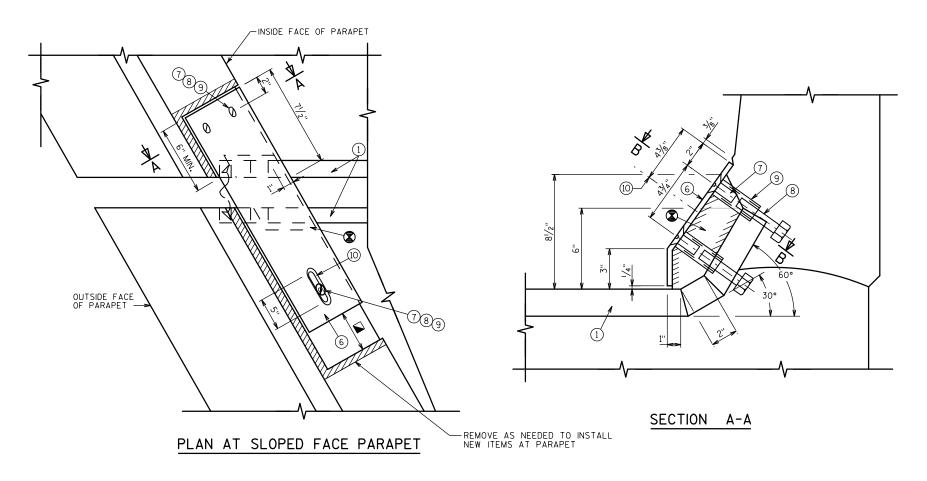
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

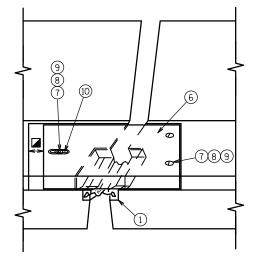
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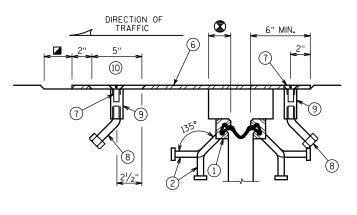


1206-04-62





VIEW OF SLOPED FACE PARAPET PLATES FROM ROADWAY

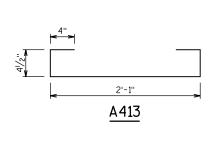


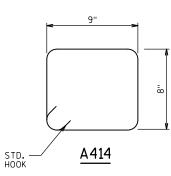
SECTION B-B

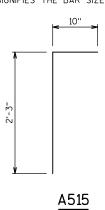
BILL OF BARS

	BAR MARK	C047	NO. REQ'D.	LENGTH	8EN7	SERIES	LOCATION
Ī	A501	Х	36	7'-4"			PAVING BLOCK - HORIZ. STAGE 3
[A502	Х	30	6'-11''			PAVING BLOCK - HORIZ. STAGE 4
[A503	Х	20	39'-11''			DECK - TRANSVERSE STAGE 3
[A504	Х	20	31'-1''			DECK - TRANSVERSE STAGE 4
[A605	Х	40	5'-6"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS
[A606	Х	50	5'-9"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS
[A607	Х	10	4'-6"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS
[A608	Х	10	3'-6"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS
[A409	Х	32	5'-6"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS
[A410	Х	40	5'-9"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS
[A 411	Х	8	4'-6"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS
[A412	Х	8	3'-6"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS
[A413	Х	136	3'-2"	Х		DIAPHRAGM - STIRRUPS BETWEEN GIRDERS
_ [A414	Х	140	3'-4"	Х		PAVING BLOCK - STIRRUP
[][A515	Х	140	3'-0''	Х		PAVING BLOCK - ANCHOR

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







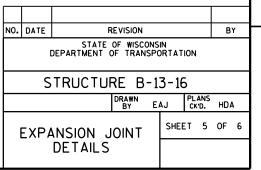
NOTE

SEE EXPANSION JOINT SHEET FOR ADDITIONAL INFORMATION.

LEGEND

BLOCK OUT CONCRETE 2" EACH SIDE FOR JOINT OPENING

JOINT OPENING DIM. ALONG SKEW PLUS 1/2"



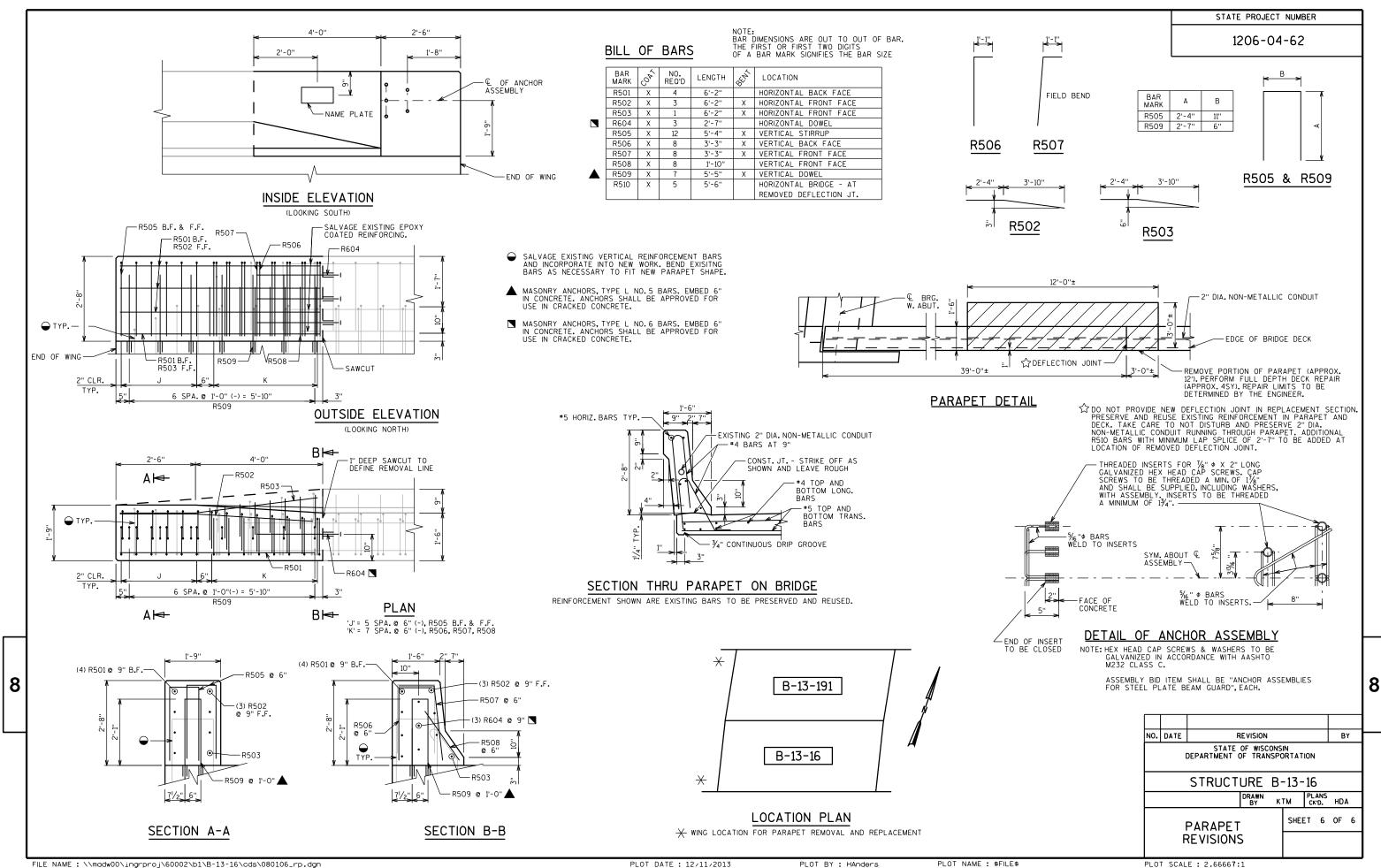
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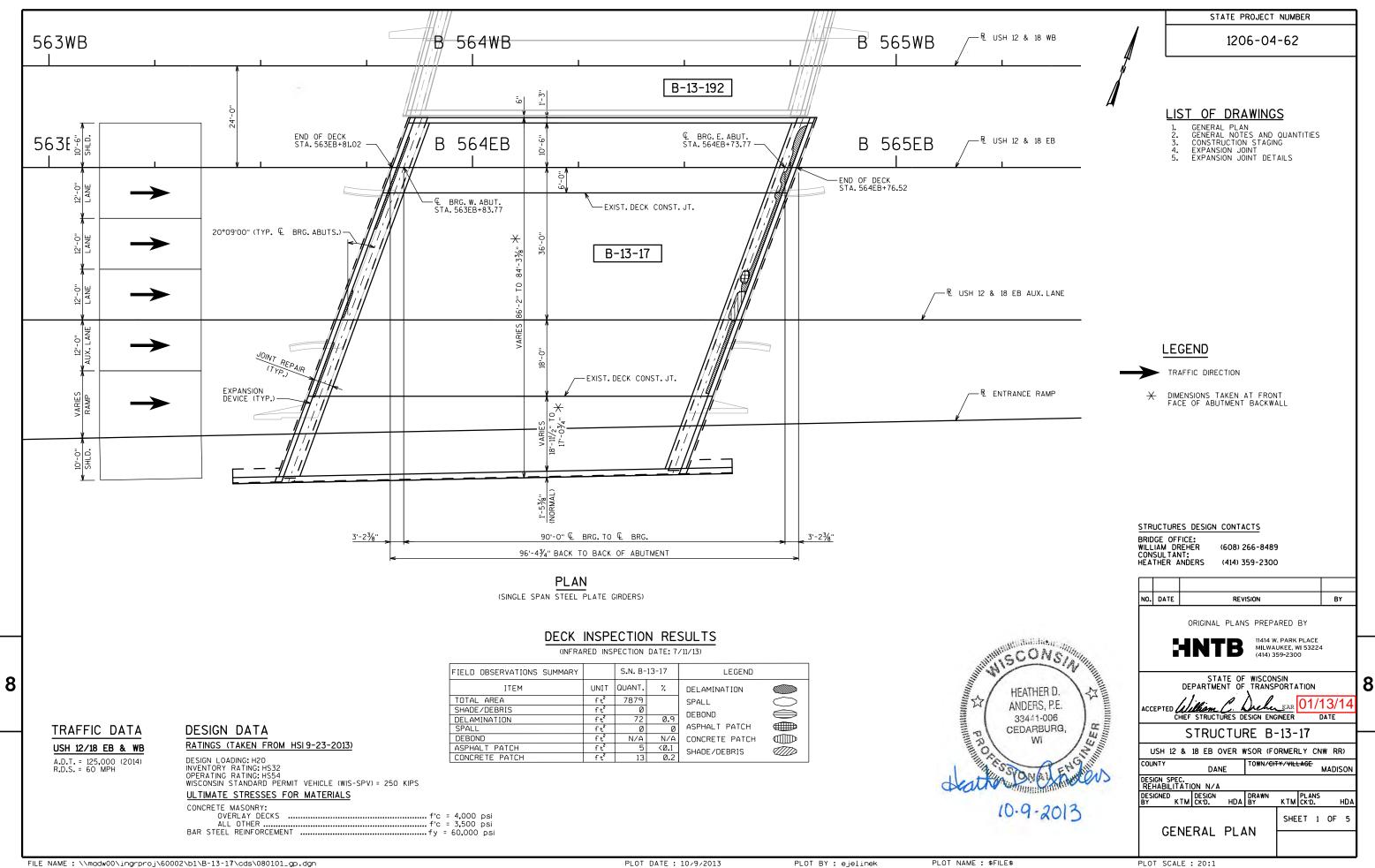
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PLOT DATE: 10/8/2013

PLOT BY: ejelinek PLOT NAME : \$FILE\$





DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEFT.

INFRARED INSPECTION DATA PROVIDED FOR INFORMATION ONLY. INFRARED INSPECTION DATE: 7-11-2013

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER:
- CRACK SEALING EPOXY

- CONCRETE SURFACE REPAIR

QUANTITES SHOWN FOR THE ABOVE BID ITEMS ARE APPROXIMATE.

UNDER THE BID ITEM "MASONRY ANCHORS TYPE L NO.5 BARS", ANCHORED REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFORCEMENT.

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

ALL REINFORCING BARS ARE ENGLISH. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

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

EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE, SHALL BE PAID FOR IN THE LUMP SUM PRICE BID AS "EXPANSION DEVICE B-13-17".

CLEAN AND FILL EXISTING LONGITUDINAL AND TRANSVERSE CRACKS WITH PENETRATING EPOXY AS DIRECTED BY THE FIELD ENGINEER.

PROTECTIVE SURFACE TREATMENT, PAID FOR UNDER "PROTECTIVE SURFACE TREATMENT RESEAL" SHALL BE APPLIED ON STRUCTURE B-13-17 TO THE FOLLOWING SURFACES:

- TOP OF EXISTING DECK SLAB

- TOP AND INSIDE FACES OF PARAPETS

"PROTECTIVE SURFACE TREATMENT" SHALL BE APPLIED ON STRUCTURE B-13-17 TO THE FOLLOWING SURFACES:
- TOP OF DECK SLAB AT NEW CONCRETE SURFACES RELATED TO THE JOINT REPAIR

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M153 TYPE 1, 2, OR 3, OR AASHTO M213.

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1" JOINT FILLER WITH HOT POURED JOINT SEALANT ($\frac{1}{2}$ " DEEP AND HOLD $\frac{1}{4}$ " BELOW SURFACE OF CONCRETE).

ANY EXCAVATION REQUIRED TO COMPLETE THE PAVING BLOCK AT THE WEST ABUTMENT IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

THE EASTBOUND AND WESTBOUND ALIGNMENTS SHOWN ON THE PLANS ARE PARALLEL TO EACH OTHER.

NEW CONCRETE AT JOINT REPAIR IS PAID FOR AS "CONCRETE MASONRY OVERLAY DECKS".

INSTALL AT PAVING NOTCH A NEW 1" PREFORMED JOINT FILLER WHICH SHALL BE CONSIDERED INCIDENTAL TO "CONCRETE MASONRY OVERLAY DECKS".

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

BEVEL EDGES OF EXPOSED CONCRETE TO MATCH EXISTING BEVELS UNLESS OTHERWISE NOTED.

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
203.0200.02	REMOVING OLD STRUCTURE STA. 564EB+25	LS	1
206.1000.01	EXCAVATION FOR STRUCTURES BRIDGES B-13-17	LS	1
206.6000.S	TEMPORARY SHORING	SF	520
210.0100	BACKFILL STRUCTURE	CY	430
502.0717.S	CRACK SEALING EPOXY	LF	360
502.3100.02	EXPANSION DEVICE B-13-17	LS	1
502.3200	PROTECTIVE SURFACE TREATMENT	SY	78
502.3215.S	PROTECTIVE SURFACE TREATMENT RESEAL	SY	881
502.5005	MASONRY ANCHORS TYPE L NO.5 BARS	EACH	178
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	5,560
509.1000	JOINT REPAIR	SY	78
509.1500	CONCRETE SURFACE REPAIR	SF	20
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	22
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	105
SPV.0035.02	BACKFILL CONTROLLED LOW STRENGTH SPECIAL	CY	5
	NON-BID ITEMS		
·			
	PREFORMED JOINT FILLER	SIZE	1"

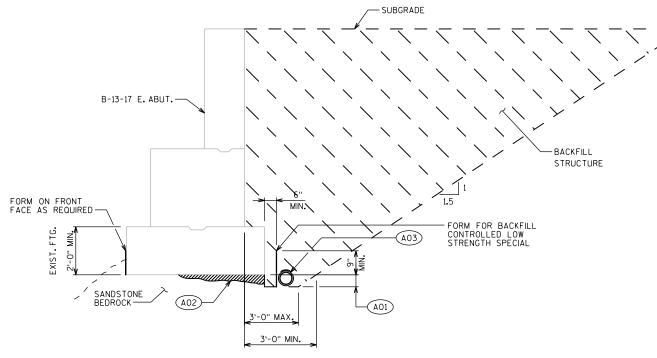
ALL ITEMS ARE CATEGORY 0040

A A SECTION A-A 1206-04-62 NOTE: ORIENT SHIELD SO SLOTS ARE VERTICAL. SECTION A-A

STATE PROJECT NUMBER

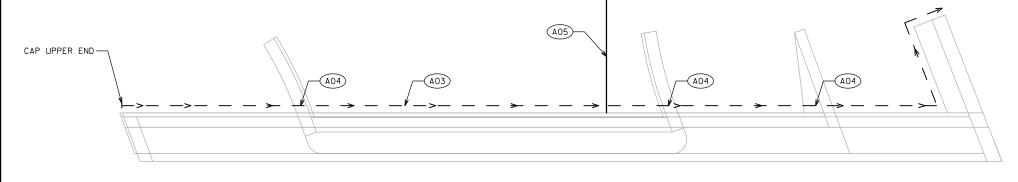
RODENT SHIELD

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER, A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS, COST OF RODENT SHIELD AND ALL FITTINGS TO BE INCLUDED IN BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".



EAST ABUTMENT PIPE UNDERDRAIN SECTION

(LOOKING NORTH)

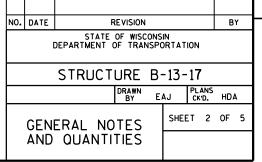


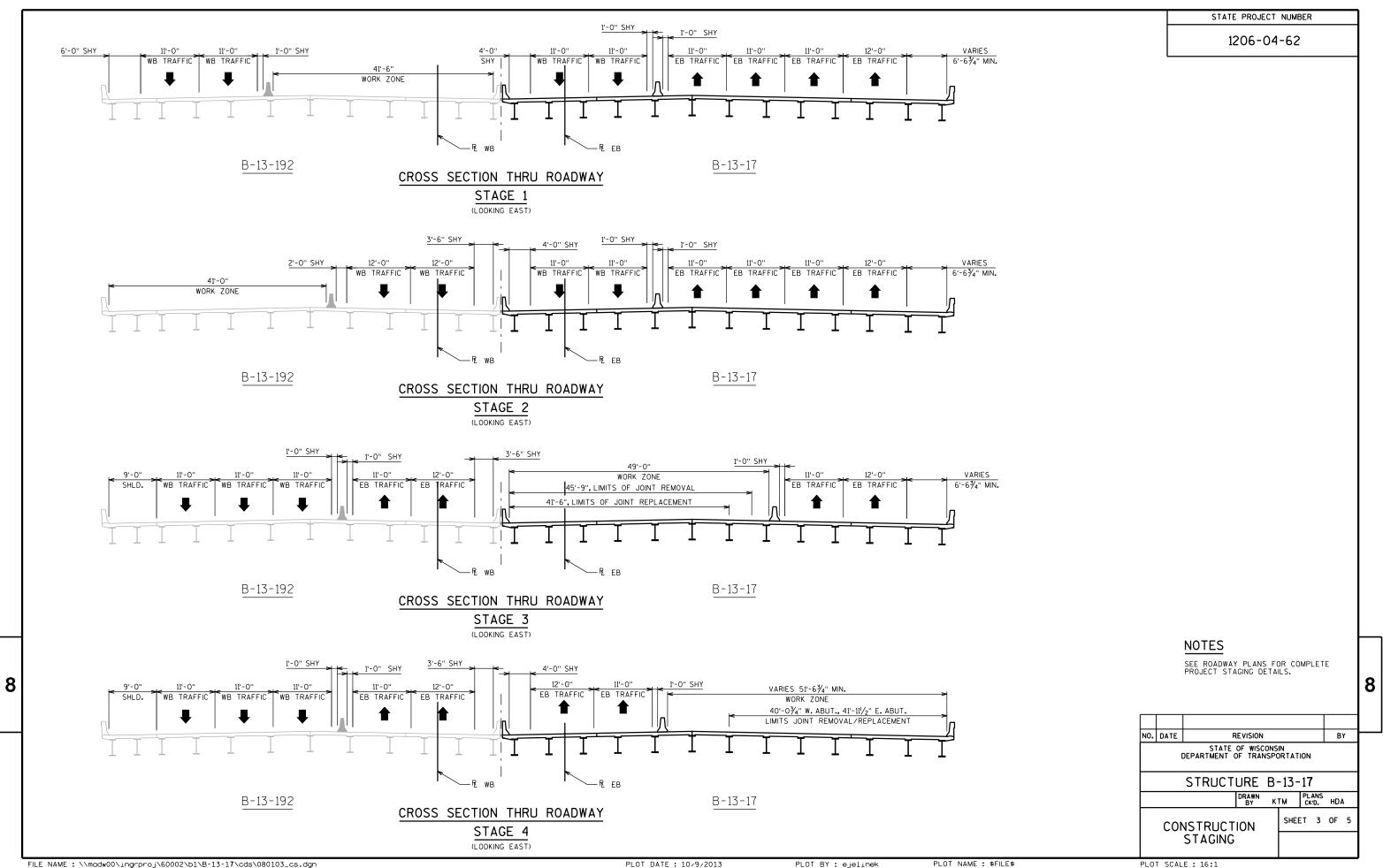
EAST ABUTMENT PIPE UNDERDRAIN

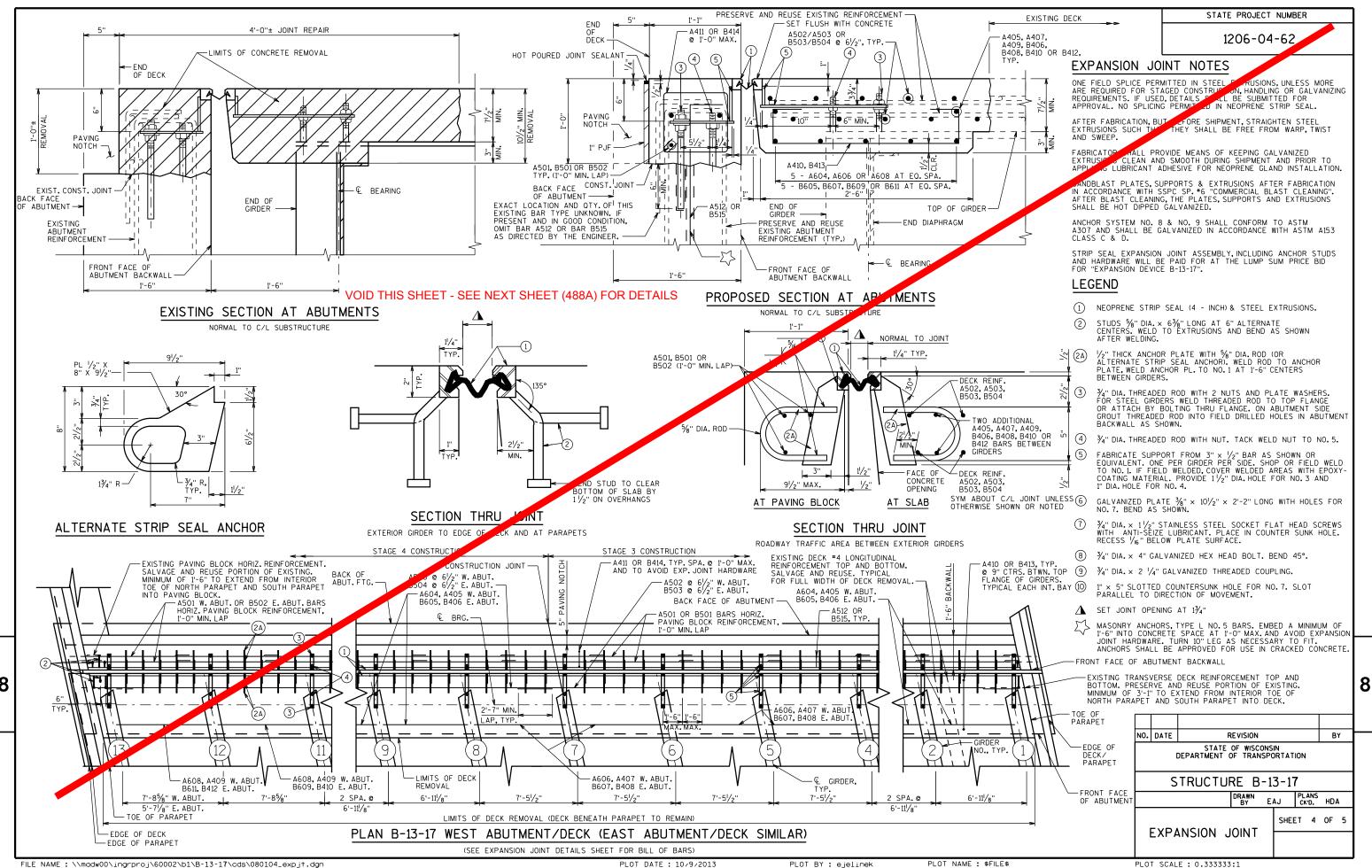
PIPE UNDERDRAIN NOTES

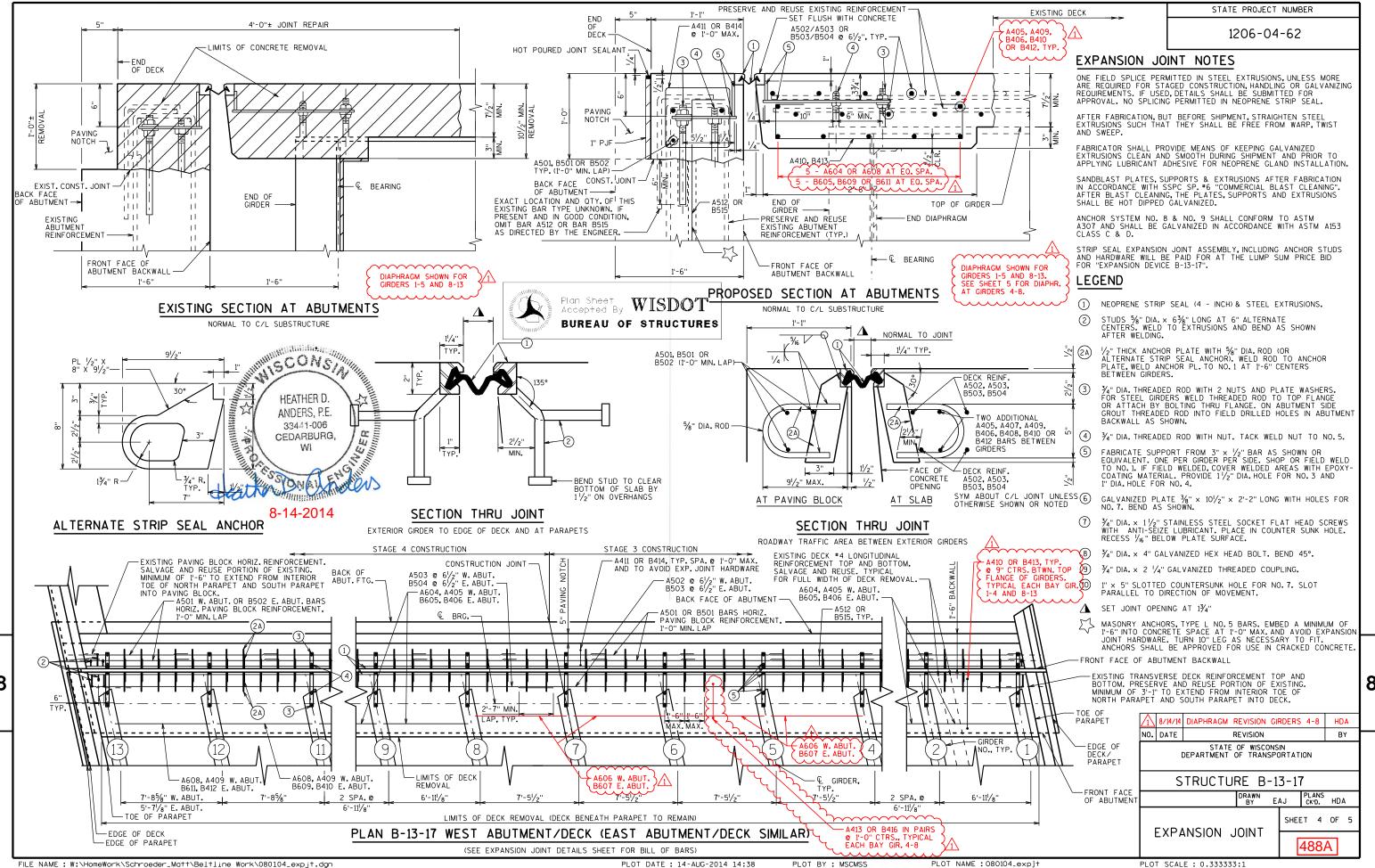
REMOVE ANY EXISTING PIPE UNDERDRAIN BEHIND THE ABUTMENT AND WINGWALL INCLUDED IN BID ITEM "REMOVING OLD STRUCTURE STA. 564EB+25."

- AO1 EXCAVATE 6" MIN. BELOW BOTTOM OF FOOTING OR TO TOP OF SANDSTONE BEDROCK AS DIRECTED BY THE ENGINEER. ENGINEER TO INSPECT BASE OF FOOTING AND ROCK BELOW FOOTING FOR EROSION.
- FILL CAPS BETWEEN ABUTMENT FOOTING AND SANDSTONE BEDROCK WITH BACKFILL CONTROLLED LOW STRENGTH SPECIAL AS DIRECTED BY THE ENGINEER AND AS PER THE SPECIAL PROVISION.
- A03 PIPE UNDERDRAIN WRAPPED 6-INCH, SLOPE 0.5% MIN. TO THE SOUTH TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD TO END OF PIPE.
- PORTIONS OF ABANDONED WINGWALLS MAY REMAIN BELOW GRADE. REMOVE AS NEEDED OR CORE THROUGH TO INSTALL NEW PIPE UNDERDRAIN IN PROPER LOCATION. PAID FOR UNDER BID ITEM "REMOVING OLD STRUCTURE STA. 564B+25."
- AO5 TEMPORARY SHORING AS NEEDED PER STAGE TO ALLOW FOR STAGED CONSTRUCTION OF WORK









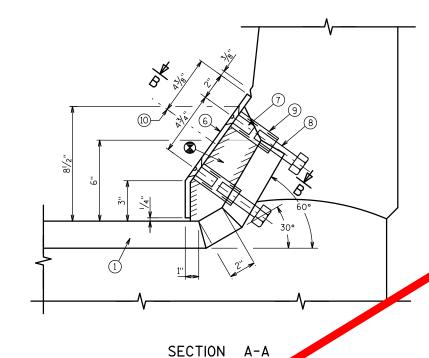
1206-04-62

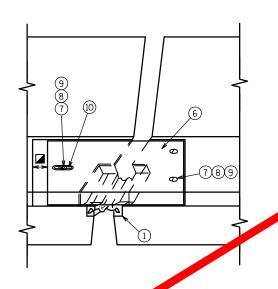
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BY

SHEET 5 OF 5

VOID THIS SHEET - SEE NEXT SHEET (489A) FOR DETAILS

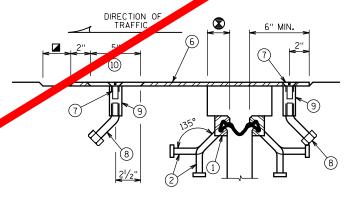




-INSIDE FACE OF PARAPET

PLAN AT SLOPED FACE PARAPET

VIEW OF SLOPED FACE PARAPET PLATES FROM ROADWAY



SECTION B-B

NOTE

. 789

SEE EXPANSION JOINT SHEET FOR ADDITIONAL INFORMATION.

LEGEND

- BLOCK OUT CONCRETE 2" EACH SIDE FOR JOINT OPENING
- JOINT OPENING DIM. ALONG SKEW PLUS 1/2"

-REMOVE AS NEEDED TO INSTALL NEW ITEMS AT PARAPET

WEST ABUTMENT BILL OF BARS

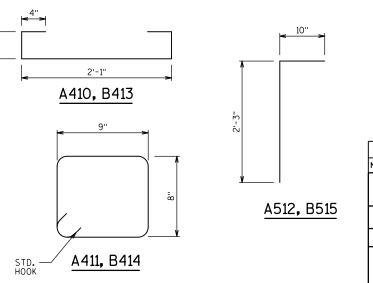
	BAR MARK	C04>	NO. REQ'D.	LENGTH	BENT	SERIES	LOCATION
ı	A501	Х	39	7'-9"			PAVING BLOCK - RIZ. STAGES 3 AND 4
Ī	A502	Х	10	47'-3"			DECK - TRAM LERSE STAGE 3
[A503	Х	10	43'-9"			DECK - ANSVERSE STAGE 4
[A604	Χ	30	6'-5"			DIAPT AGM - HORIZ. BETWEEN GIRDERS STAGES 3 AND 4
[A405	Χ	24	6'-5"			PHRAGM - HORIZ. BETWEEN GIRDERS STAGES 3 AND 4
[A606	Χ	20	6'-11"			DIAPHRAGM - HORIZ.BETWEEN GIRDERS STAGES 3 AND 4
[A407	Χ	16	6'-11"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS STAGES 3 AND 4
[A608	Χ	10	7'-2"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS STAGE 4
[A409	Χ	8	7'-2			DIAPHRAGM - HORIZ. BETWEEN GIRDERS STAGE 4
[A410	Χ	114	-3"	Χ		DIAPHRAGM - STIRRUPS BETWEEN GIRDERS
, [A411	Χ	90	3'-4"	Χ		PAVING BLOCK - STIRRUP
77	A512	Χ		3'-0"	Χ		PAVING BLOCK - ANCHOR

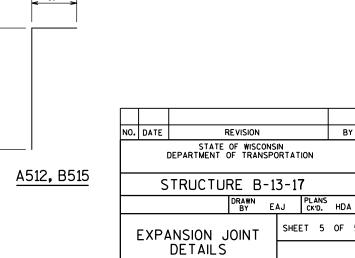
STONS ARE OUT TO OUT OF BAR. ST OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE.

EAST ABUTMENT BILL OF BARS

BAR MARK	CO47	NO. REQ'D.	LENGTH	BENZ	SERIES	LOCATION
B501	Х	36	7'-9"			PAVING BLOCK - HORIZ. STAGES 3 AND 4
B502	Х	3	5'-11"			PAVING BLOCK - HORIZ. STAGE 4
B503	Х	10	47'-3"			DECK - TRANSVERSE STAGE 3
B504	Х	10	41'-9''			DECK - TRANSVERSE STAGE 4
B605	Х	30	6'-5"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS STAGES 3 AND 4
B406	Х	24	6'-5"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS STAGES 3 AND 4
B607	Х	20	6'-11"			DIAPHRAGM - HORIZ.BETWEEN GIRDERS STAGES 3 AND 4
B408	Х	16	6'-11"			DIAPHRAGM - HORIZ.BETWEEN GIRDERS STAGES 3 AND 4
B609	Х	5	7'-2"			DIAPHRAGM - HORIZ.BETWEEN GIRDERS STAGE 4
B410	Х	4	7'-2"			DIAPHRAGM - HORIZ.BETWEEN GIRDERS STAGE 4
B611	Х	5	5'-1"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS STAGE 4
B412	Х	4	5'-1"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS STAGE 4
B413	Х	111	3'-3"	Х		DIAPHRAGM - STIRRUPS BETWEEN GIRDERS
B414	Х	88	3'-4"	Х		PAVING BLOCK - STIRRUP
7 B515	Х	88	3'-0"	Х		PAVING BLOCK - ANCHOR

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





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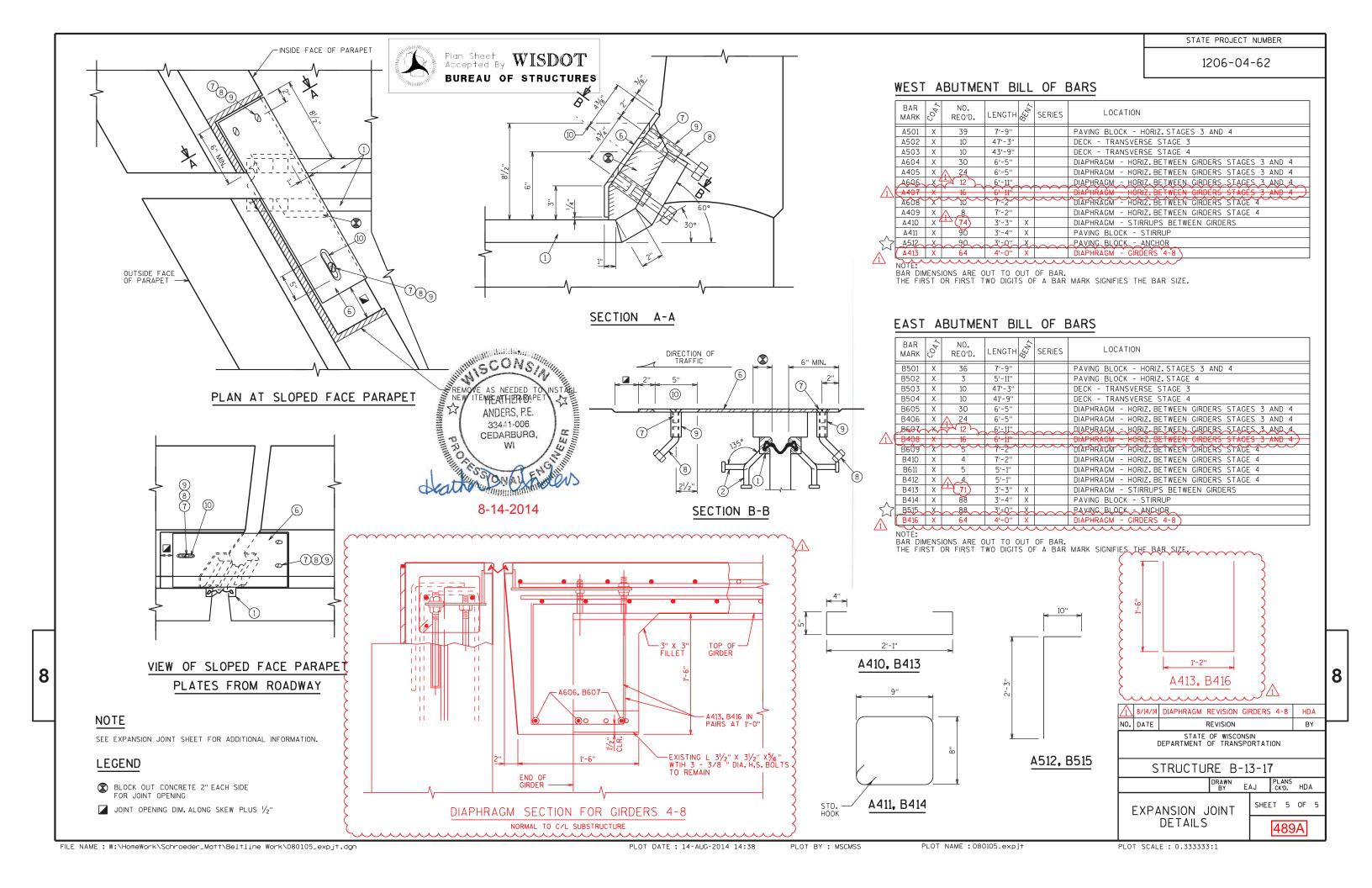
OUTSIDE FACE OF PARAPET -

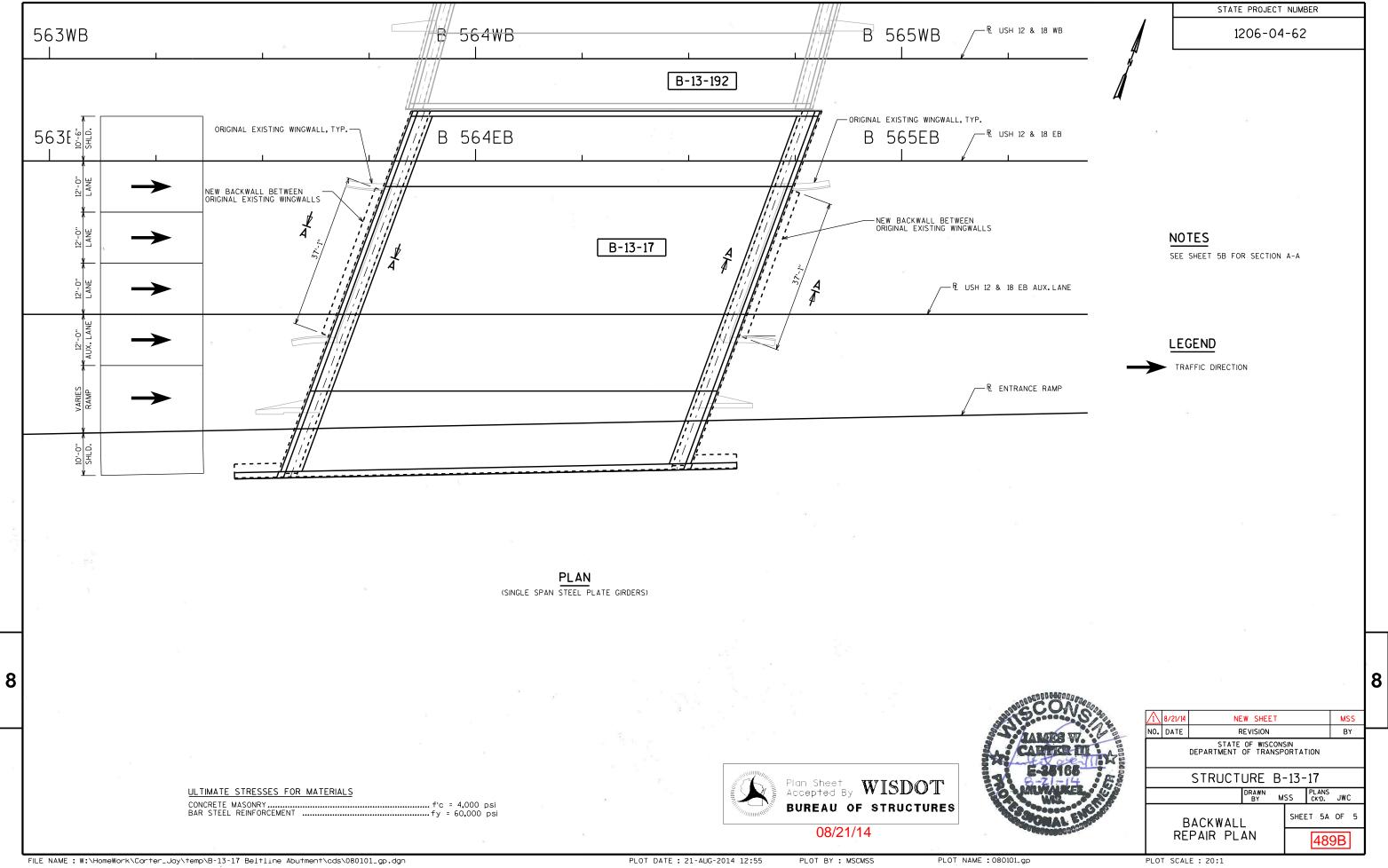
8

PLOT DATE: 10/9/2013

PLOT BY: ejelinek

PLOT NAME : \$FILE\$ PLOT SCALE: 0.333333:1





8

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS, SUPPLEMENTED WITH FIELD MEASUREMENTS ON THE EAST ABUTMENT ONLY.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN

UNDER THE BID ITEM "MASONRY ANCHORS TYPE L NO. 5 BARS", ANCHORED REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFORCEMENT.

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

ALL REINFORCING BARS ARE ENGLISH. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

CLEAN AND FILL EXISTING CRACKS IN BACKWALL WITH POLYURETHANE CRACK SEALER. PAYMENT IS INCIDENTAL TO "CONCRETE MASONRY BRIDGES".

THE EASTBOUND AND WESTBOUND ALIGNMENTS SHOWN ON THE PLANS ARE PARALLEL TO EACH OTHER.

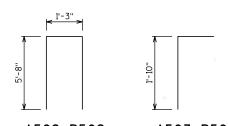
INSTALL AT EXISTING PAVING NOTCH A NEW 1" POLYSTYRENE PAD THE LENGTH OF THE RETROFIT WHICH SHALL BE CONSIDERED INCIDENTAL TO "CONCRETE MASONRY BRIDGES".

INSTALL BETWEEN NEW CONCRETE BACKWALL AND EXISTING WINGWALL A NEW 1" POLYSTYRENE PAD THE HEIGHT OF THE EXISTING WALLS WHICH SHALL BE CONSIDERED INCIDENTAL TO "CONCRETE MASONRY BRIDGES".

BEVEL EDGES OF EXPOSED CONCRETE TO MATCH EXISTING BEVELS UNLESS OTHERWISE NOTED.

BACKWALL REPAIR ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
502.0100	CONCRETE MASONRY BRIDGES	CY	38
502.5005	CONCRETE MASONRY ANCHORS TYPE L NO. 5 BARS	EACH	200
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	3,340
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	12
	NON-BID ITEMS		
	POLYURETHANE JOINT SEALER	-	-
	POLYSTYRENE	SIZF.	1"



BILL OF BARS - WEST ABUTMENT

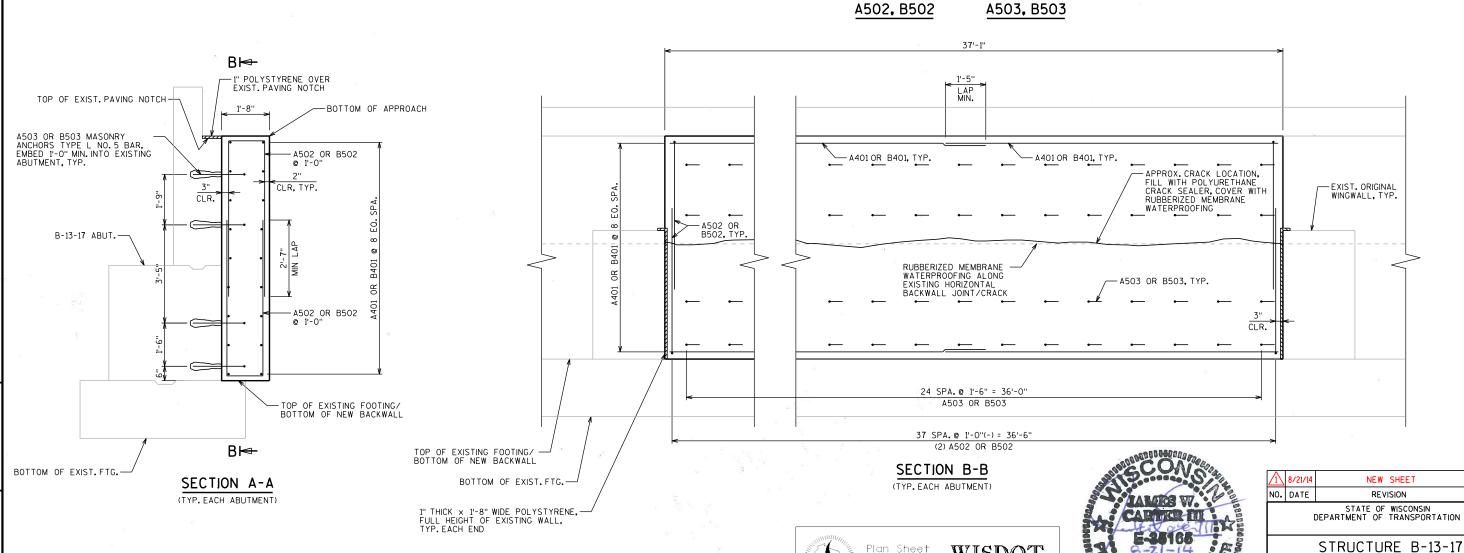
BAR MARK	C047	NO. REQ'D.	LENGTH	SEN7	SERIES	LOCATION
A401	Х	36	19'-1"			BACKWALL - HORIZ.
A502	Х	76	12'-4"	Х		BACKWALL - VERT.
A503	Χ	100	2'-3"	Х	*	BACKWALL - ANCHORS

STATE PROJECT NUMBER

1206-04-62

BILL OF BARS - EAST ABUTMENT

BAR MARK	C042	NO. REQ'D.	LENGTH	BENZ	SERIES	LOCATION
B401	X	36	19'-1"			BACKWALL - HORIZ.
B502	Х	76	12'-4"	Х		BACKWALL - VERT.
			'			
B503	Х	100	2'-3"	X		BACKWALL - ANCHORS



08/21/14

Plan Sheet WISDOT

BUREAU OF STRUCTURES

BACKWALL REPAIR

DETAILS

MSS

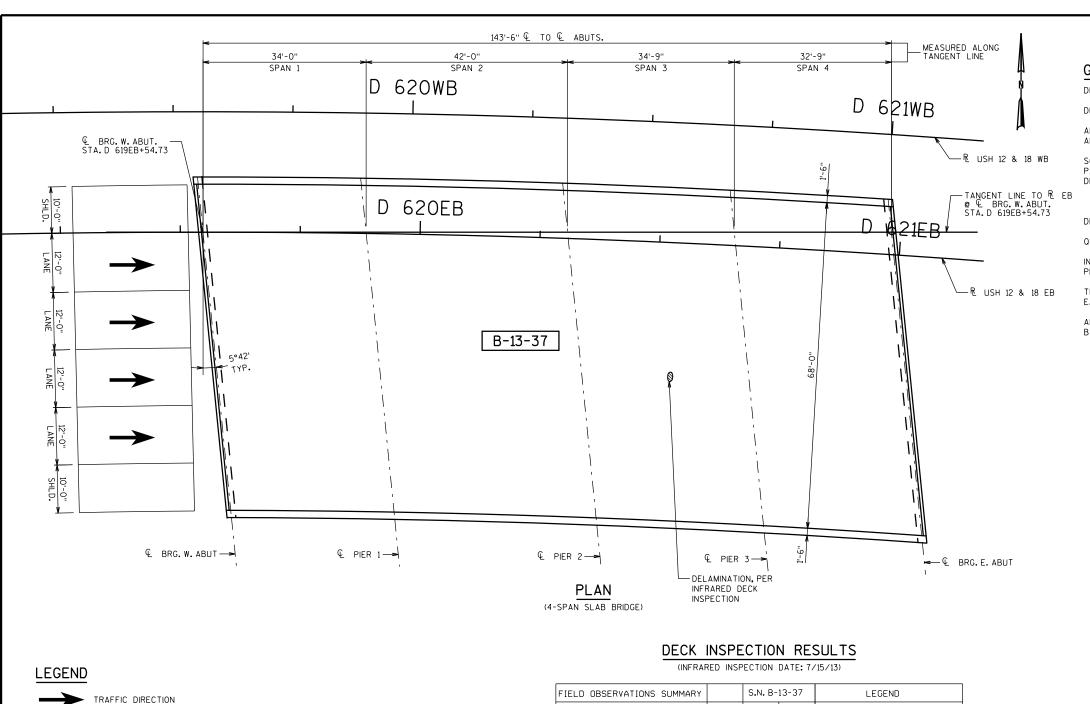
BY

PLANS CK'D. JWC

SHEET 5B OF 5

489C

MSS



DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET.

SCOPE OF WORK FOR THIS STRUCTURE INCLUDES ONLY ISOLATED AREA(S) OF DECK PATCHING, LOCATIONS AND LIMITS OF THE FOLLOWING DECK PATCHING BID ITEMS TO BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER.

- PREPARATION DECKS
- SAWING PAVEMENT DECK PREPARATION AREAS

DECK PATCHING MATERIAL SHALL BE "POLYESTER POLYMER CONCRETE MASONRY".

QUANTITES SHOWN FOR ALL BID ITEMS ARE APPROXIMATE.

INFRARED INSPECTION DATA PROVIDED FOR INFORMATION ONLY. INFRARED INSPECTION PERFORMED BY AECOM, 7-15-2013.

THE EASTBOUND AND WESTBOUND ALIGNMENTS SHOWN ON THE PLANS ARE PARALLEL TO

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

LIST OF DRAWINGS

1. GENERAL PLAN

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE: WILLIAM DREHER CONSULTANT: HEATHER ANDERS (608) 266-8489 (414) 359-2300

NO. DATE BY REVISION

STATE PROJECT NUMBER

1206-04-62

ORIGINAL PLANS PREPARED BY

HNTB

11414 W. PARK PLACE MILWAUKEE, WI 53224 (414) 359-2300

SHEET 1 OF

8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION ACCEPTED William C. Duche KAR 12/21/13
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-13-37

USH 12 & 18 EB OVER JOHN NOLEN DR. TOWN/CITY/VILLAGE

MADISON DANE DESIGN SPEC. REHABILITATION N/A DESIGNED DESIGN
BY HDA CK'D. SR BY HDA CK'D.

GENERAL PLAN

12.20.2013

NISCONSIA

HEATHER D.

ANDERS, P.E.

33441-006

CEDARBURG,

PONACE LA

FIELD OBSERVATIONS SUMMARY		S.N. B-1	13-37	LEGEND	
ITEM	UNIT	QUANT.	%	DELAMINATION	
TOTAL AREA	f t²	9826		SPALL	
SHADE/DEBRIS	ft²	0		DEBOND	$\widetilde{\Longrightarrow}$
DELAMINATION	f t²	2	<0.1		_
SPALL	f t²	0	Ø	ASPHALT PATCH	
DEBOND	f t²	N/A	N/A	CONCRETE PATCH	
ASPHALT PATCH	ft²	0	0	SHADE/DEBRIS	TITTO
CONCRETE PATCH	ft²	0	Ø	SI INDEA DEDUTS	

DESIGN DATA

RATINGS (TAKEN FROM HSI 12-9-2013)

DESIGN LOADING: HS20 INVENTORY RATING: HS22 OPERATING RATING: HS37

WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 240 KIPS

ULTIMATE STRESSES FOR MATERIALS

POLYESTER POLYMER CONCRETE MASONRY...... f'c = 1,000 psi (8 HRS) 5,000 psi (24 HRS)

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
509.0301	PREPARATION DECKS TYPE 1	SY	0.5
509.0302	PREPARATION DECKS TYPE 2	SY	0.2
SPV.0025.01	POLYESTER POLYMER CONCRETE MASONRY	CF	1.4
SPV.0090.04	SAWING PAVEMENT DECK PREPARATION AREAS	LF	9

ALL ITEMS ARE CATEGORY 0010

PLOT BY : HAnders

HORIZONTAL CURVE DATA

R USH 12 & 18 EB

P.I. = D 622+34.47 \[\Delta = 21^\circ 15^\circ 48^\circ RIGHT \]
\[D = 2^\circ 36^\circ 46^\circ T = 411.66^\circ \]

L = 813.86' R = 2192.99' P.C. = D 618+22.80

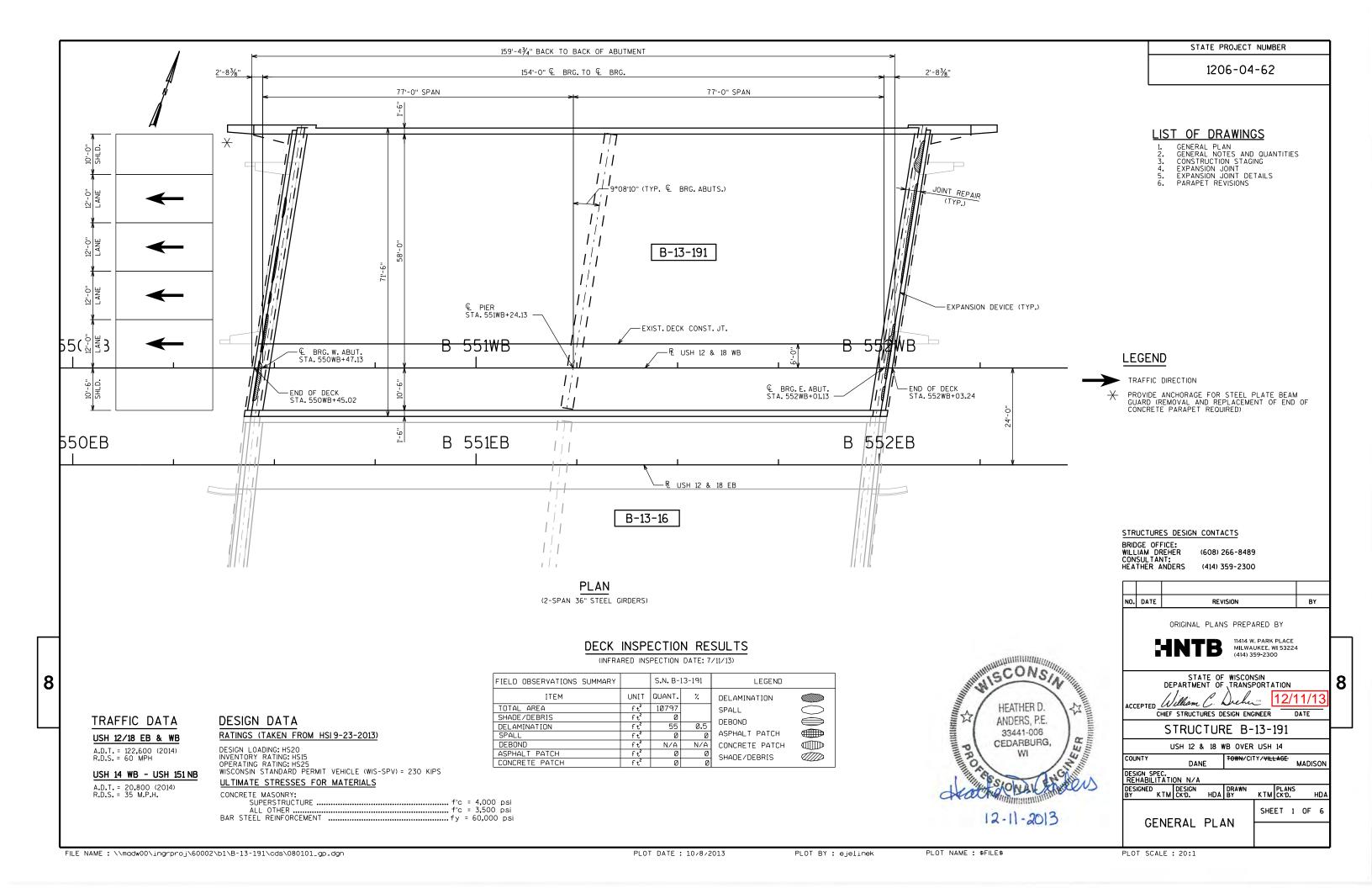
P.T. = D 626+36.66

TRAFFIC DATA

USH 12/18 EB & WB

A.D.T. = 104,000 (2012) R.D.S. = 60 MPH

COUNTY



DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN

INFRARED INSPECTION DATA PROVIDED FOR INFORMATION ONLY. INFRARED INSPECTION DATE: 7-11-2013

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER: - CRACK SEALING EPOXY

- CONCRETE SURFACE REPAIR

QUANTITES SHOWN FOR THE ABOVE BID ITEMS ARE APPROXIMATE.

UNDER THE BID ITEMS "MASONRY ANCHORS TYPE L", ANCHORED REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFORCEMENT.

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

ALL REINFORCING BARS ARE ENGLISH. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

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

EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE, SHALL BE PAID FOR IN THE LUMP SUM PRICE BID AS "EXPANSION DEVICE B-13-191".

CLEAN AND FILL EXISTING LONGITUDINAL AND TRANSVERSE CRACKS WITH PENETRATING EPOXY AS DIRECTED BY THE FIELD ENGINEER.

PROTECTIVE SURFACE TREATMENT, PAID FOR UNDER "PROTECTIVE SURFACE TREATMENT RESEAL" SHALL BE APPLIED ON STRUCTURE B-13-191 TO THE FOLLOWING SURFACES:

- TOP OF EXISTING DECK SLAB

- TOP AND INSIDE FACES OF EXISTING PARAPETS

"PROTECTIVE SURFACE TREATMENT" SHALL BE APPLIED ON STRUCTURE B-13-191 TO THE FOLLOWING COMPLETED SURFACES:

- TOP OF DECK SLAB AT NEW CONCRETE SURFACES RELATED TO JOINT REPAIR

- TOP AND INSIDE FACES OF REPLACEMENT PARAPET AT NEW CONCRETE SURFACES

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M153 TYPE 1, 2, OR 3, OR AASHTO M213. SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1" JOINT FILLER WITH HOT POURED JOINT

SEALANT ($\frac{1}{2}$ " DEEP AND HOLD $\frac{1}{4}$ " BELOW SURFACE OF CONCRETE).

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

THE EASTBOUND AND WESTBOUND ALIGNMENTS SHOWN ON THE PLANS ARE PARALLEL TO EACH OTHER.

NEW CONCRETE AT JOINT REPAIR IS PAID FOR AS "CONCRETE MASONRY OVERLAY DECKS".

INSTALL AT PAVING NOTCH A NEW 1" PREFORMED JOINT FILLER WHICH SHALL BE CONSIDERED INCIDENTAL TO "CONCRETE MASONRY OVERLAY DECKS".

EXISTING UTILITIES ATTACHED TO THE BRIDGE TO REMAIN IN PLACE AND IN SERVICE.

"REMOVING OLD STRUCTURE STA.551WB+24" INCLUDES PARTIAL REMOVAL OF NW WINGWALL PARAPET.

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

"CONCRETE MASONRY BRIDGES" INCLUDES CONCRETE REQUIRED TO REPLACE PORTION OF NORTH PARAPET AT

BEVEL EDGES OF EXPOSED CONCRETE TO MATCH EXISTING BEVELS UNLESS OTHERWISE NOTED.

STATE PROJECT NUMBER

1206-04-62

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
203.0200.03	REMOVING OLD STRUCTURE STA. 551WB+24	LS	1
502.0100	CONCRETE MASONRY BRIDGES	CY	1
502 . 0717 . S	CRACK SEALING EPOXY	LF	600
502.3100.03	EXPANSION DEVICE B-13-191	LS	1
502.3200	PROTECTIVE SURFACE TREATMENT	SY	65
502 . 3215 . S	PROTECTIVE SURFACE TREATMENT RESEAL	SY	1,278
502.5005	MASONRY ANCHORS TYPE L NO.5 BARS	EACH	154
502.5010	MASONRY ANCHORS TYPE L NO.6 BARS	EACH	3
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	4,770
509.1000	JOINT REPAIR	SY	62
509.1500	CONCRETE SURFACE REPAIR	SF	20
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	18
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	1
SPV.0180.03	CLEAN ABUTMENT SEATS	SY	30
	NON-BID ITEMS		
	PREFORMED JOINT FILLER	SIZE	1"

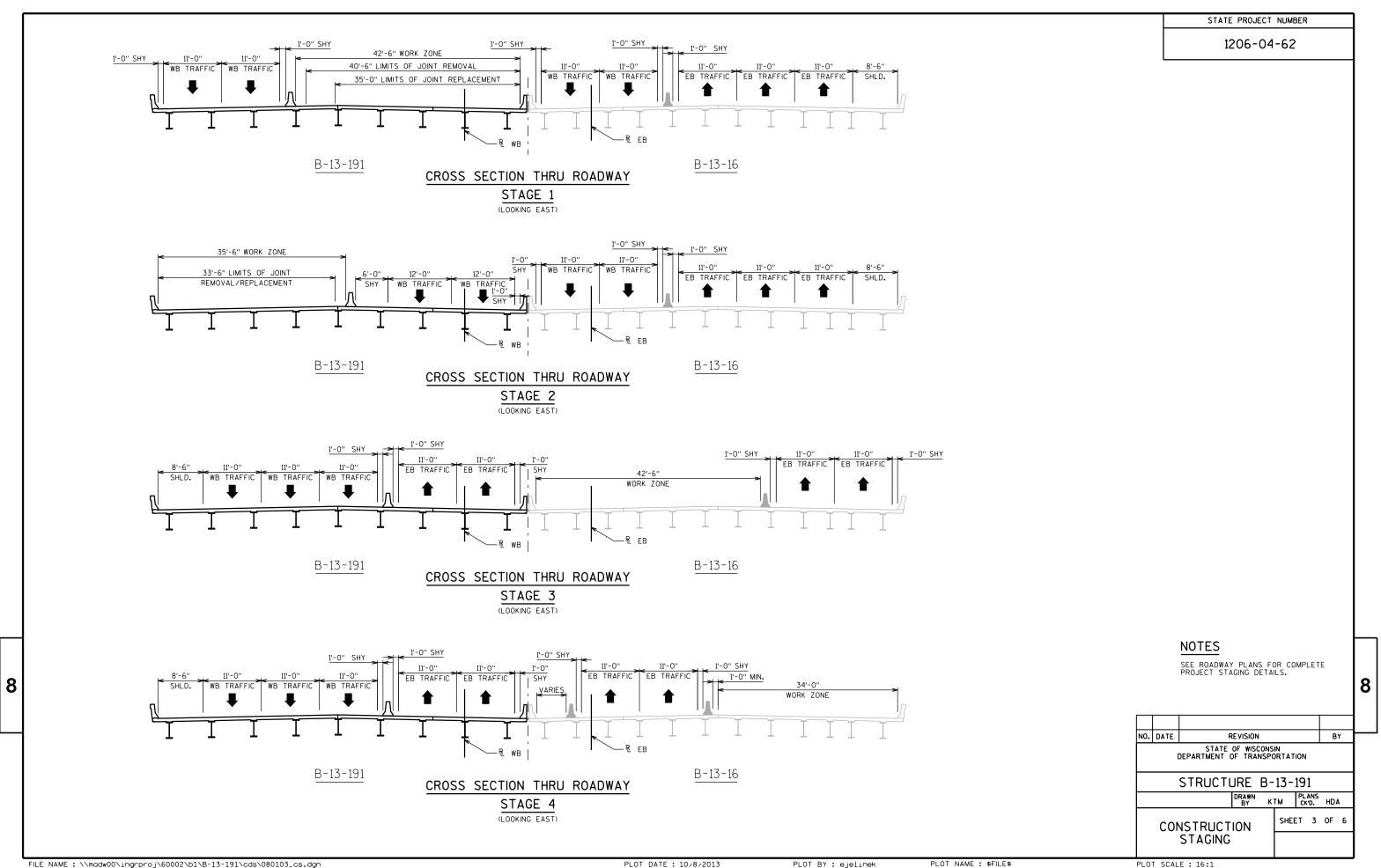
ALL ITEMS ARE CATEGORY 0050

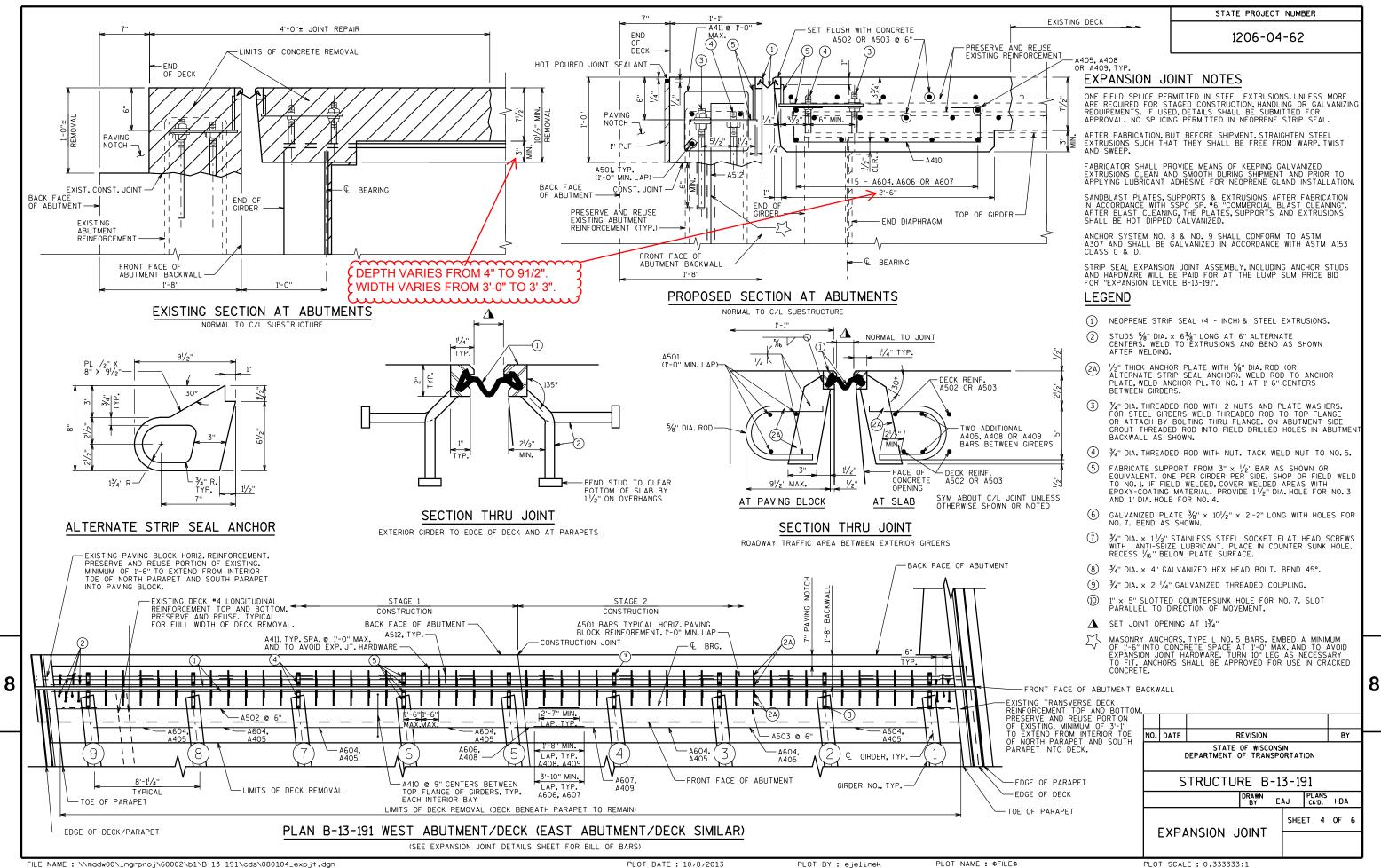
NO. DATE REVISION BY

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PLOT BY: ejelinek



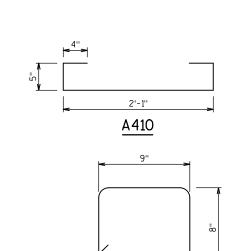


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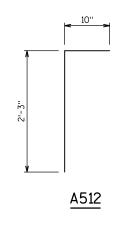
BILL OF BARS

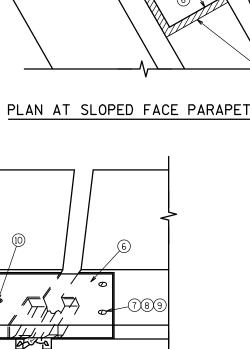
	BAR MARK	C047	NO. REQ'D.	LENGTH	IN38	SERIES	LOCATION
ı	A501	Х	66	7'-2"			PAVING BLOCK - HORIZ. STAGE 1 AND 2
	A502	Х	22	39'-6"			DECK - TRANSVERSE STAGE 1
	A503	Х	22	32'-0"			DECK - TRANSVERSE STAGE 2
Γ	A604	Х	70	7'-7''			DIAPHRAGM - HORIZ. BETWEEN GIRDERS
Γ	A405	Х	56	7'-7''			DIAPHRAGM - HORIZ. BETWEEN GIRDERS
Γ	A606	Х	10	5'-5"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS STAGE 1
Γ	A607	Х	10	6'-1"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS STAGE 2
	A408	Х	8	4'-4''			DIAPHRAGM - HORIZ. BETWEEN GIRDERS STAGE 1
	A409	Х	8	5'-0"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS STAGE 2
Ī	A410	Х	160	3'-3"	Х		DIAPHRAGM - STIRRUPS BETWEEN GIRDERS
Γ	A411	Х	140	3'-4''	Х		PAVING BLOCK - STIRRUP
] ל	A512	Х	140	3'-0"	Χ		PAVING BLOCK - ANCHOR

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

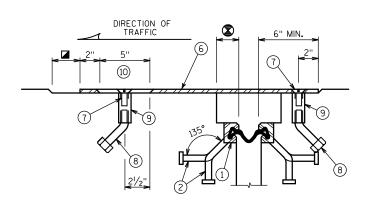


A411





INSIDE FACE OF PARAPET



SECTION B-B

SECTION A-A

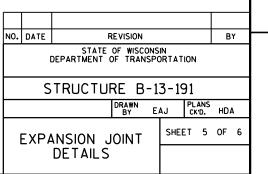
-REMOVE AS NEEDED TO INSTALL NEW ITEMS AT PARAPET

NOTE

SEE EXPANSION JOINT SHEET FOR ADDITIONAL INFORMATION.

LEGEND

- BLOCK OUT CONCRETE 2" EACH SIDE FOR JOINT OPENING
- JOINT OPENING DIM. ALONG SKEW PLUS 1/2"

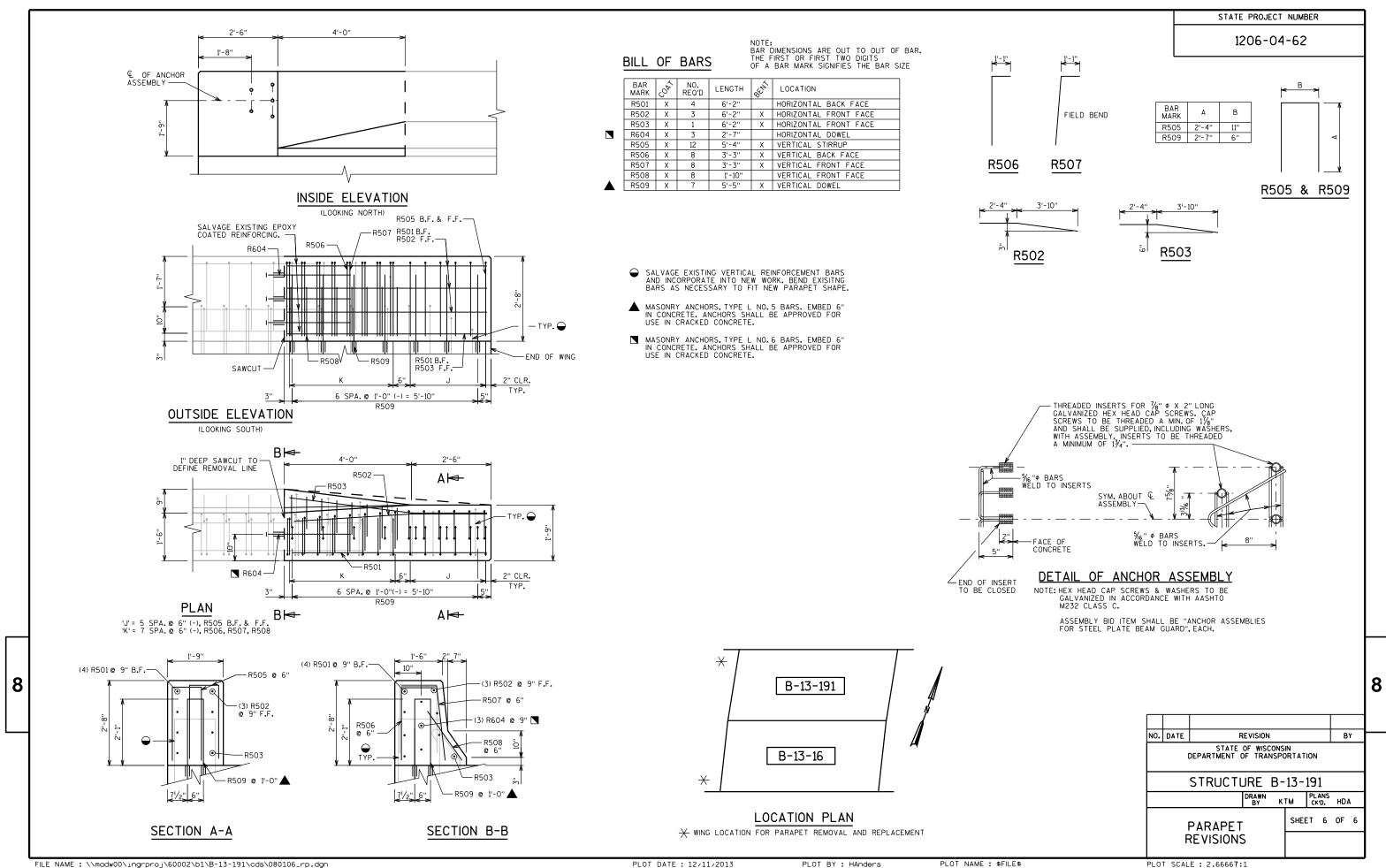


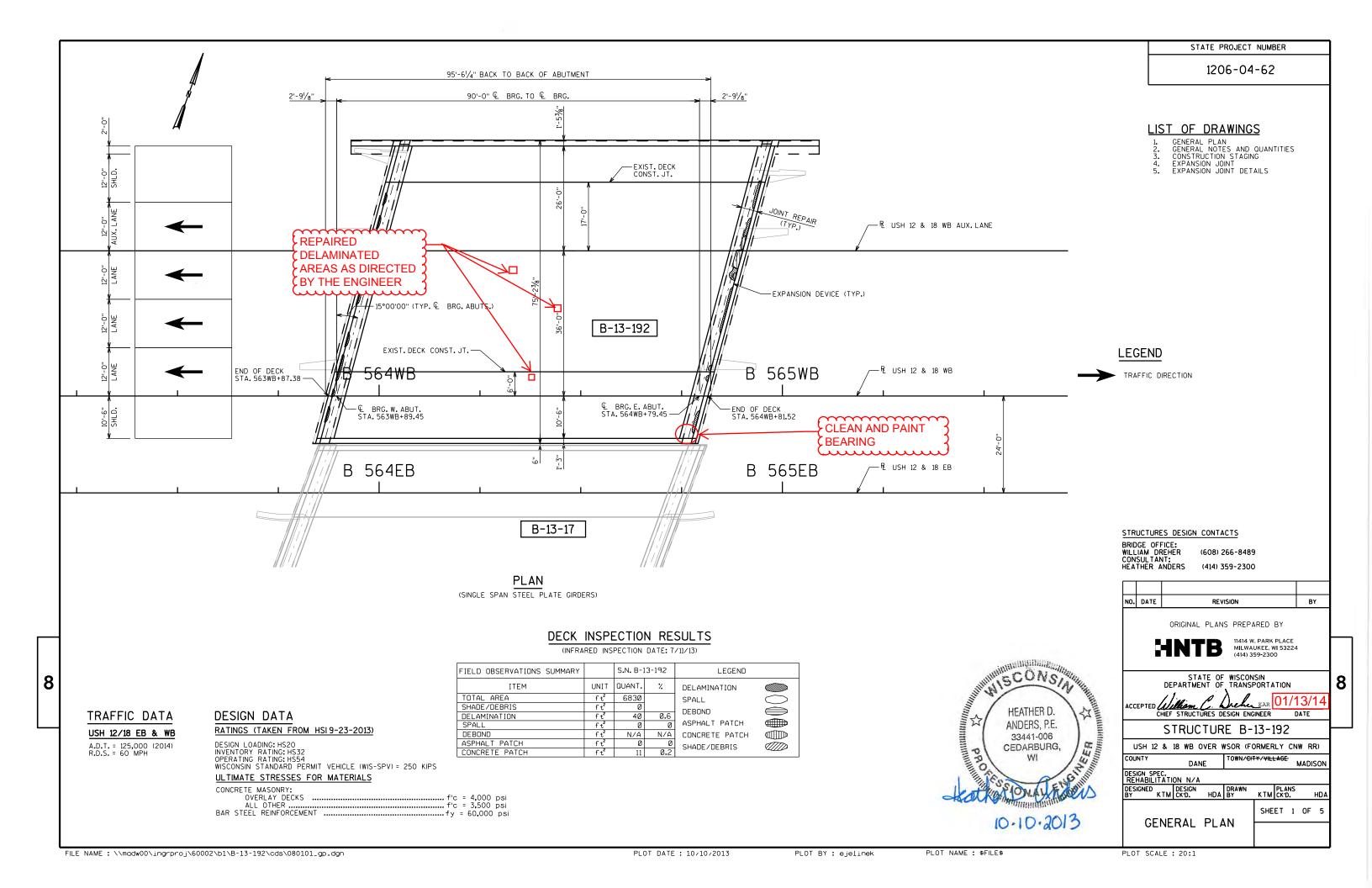
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VIEW OF SLOPED FACE PARAPET

PLATES FROM ROADWAY

OUTSIDE FACE OF PARAPET -





DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN

INFRARED INSPECTION DATA PROVIDED FOR INFORMATION ONLY. INFRARED INSPECTION DATE: 7-11-2013

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER: - CRACK SEALING EPOXY

- CONCRETE SURFACE REPAIR

QUANTITES SHOWN FOR THE ABOVE BID ITEMS ARE APPROXIMATE.

UNDER THE BID ITEM "MASONRY ANCHORS TYPE L NO.5 BARS", ANCHORED REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFORCEMENT.

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

ALL REINFORCING BARS ARE ENGLISH. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

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

EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE, SHALL BE PAID FOR IN THE LUMP SUM PRICE BID AS "EXPANSION DEVICE B-13-192".

CLEAN AND FILL EXISTING LONGITUDINAL AND TRANSVERSE CRACKS WITH PENETRATING EPOXY AS DIRECTED BY THE FIELD ENGINEER.

PROTECTIVE SURFACE TREATMENT, PAID FOR UNDER "PROTECTIVE SURFACE TREATMENT RESEAL" SHALL BE APPLIED ON STRUCTURE B-13-192 TO THE FOLLOWING SURFACES:

TOP OF EXISTING DECK SLAB

- TOP AND INSIDE FACES OF PARAPETS

"PROTECTIVE SURFACE TREATMENT" SHALL BE APPLIED ON STRUCTURE B-13-192 TO THE FOLLOWING SURFACES:
- TOP OF DECK SLAB AT NEW CONCRETE SURFACES RELATED TO THE JOINT REPAIR

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M153 TYPE 1, 2, OR 3, OR AASHTO M213.

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1" JOINT FILLER WITH HOT POURED JOINT SEALANT ($\frac{1}{2}$ " DEEP AND HOLD $\frac{1}{4}$ " BELOW SURFACE OF CONCRETE).

ANY EXCAVATION REQUIRED TO COMPLETE THE PAVING BLOCK AT THE WEST ABUTMENT IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

THE EASTBOUND AND WESTBOUND ALIGNMENTS SHOWN ON THE PLANS ARE PARALLEL TO EACH OTHER.

NEW CONCRETE AT JOINT REPAIR IS PAID FOR AS "CONCRETE MASONRY OVERLAY DECKS".

INSTALL AT PAVING NOTCH A NEW 1" PREFORMED JOINT FILLER WHICH SHALL BE CONSIDERED INCIDENTAL TO "CONCRETE MASONRY OVERLAY DECKS".

EXISTING UTILITIES ATTACHED TO THE BRIDGE TO REMAIN IN PLACE AND IN SERVICE.

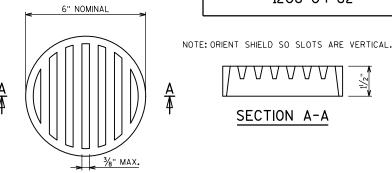
ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1-INCH DEEP SAW

BEVEL EDGES OF EXPOSED CONCRETE TO MATCH EXISTING BEVELS UNLESS OTHERWISE NOTED.

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
203.0200.04	REMOVING OLD STRUCTURE STA. 564WB+25	LS	1
206.1000.02	EXCAVATION FOR STRUCTURES BRIDGES B-13-192	LS	1
206.6000.S	TEMPORARY SHORING	SF	590
210.0100	BACKFILL STRUCTURE	CY	420
502 . 0717 . S	CRACK SEALING EPOXY	LF	360
502.3100.04	EXPANSION DEVICE B-13-192	LS	1
502.3200	PROTECTIVE SURFACE TREATMENT	SY	67
502 . 3215 . S	PROTECTIVE SURFACE TREATMENT RESEAL	SY	774
502.5005	MASONRY ANCHORS TYPE L NO.5 BARS	EACH	152
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	4,750
509.1000	JOINT REPAIR	SY	67
509.1500	CONCRETE SURFACE REPAIR	SF	20
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	19
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	90
SPV.0035.02	BACKFILL CONTROLLED LOW STRENGTH SPECIAL	CY	9
	NON-BID ITEMS		
	PREFORMED JOINT FILLER	SIZE	1"

ALL ITEMS ARE CATEGORY 0060



1206-04-62

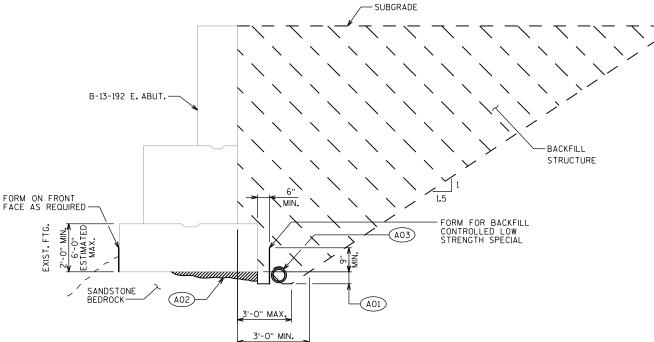
STATE PROJECT NUMBER

VVVV

SECTION A-A

RODENT SHIELD

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER, A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS. COST OF RODENT SHIELD AND ALL FITTINGS TO BE INCLUDED IN BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".



EAST ABUTMENT PIPE UNDERDRAIN SECTION (LOOKING NORTH)

(A05) CAP LIPPER END (A04) (A03) (A04)

EAST ABUTMENT PIPE UNDERDRAIN

NO. DATE REVISION BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-13-192 SHEET 2 OF GENERAL NOTES AND QUANTITIES

8

FILE NAME: \\madw00\ingrproj\60002\b1\B-13-192\cds\080102_gn.dgn

PLOT DATE: 10/10/2013

PLOT NAME : \$FILE\$ PLOT BY: ejelinek

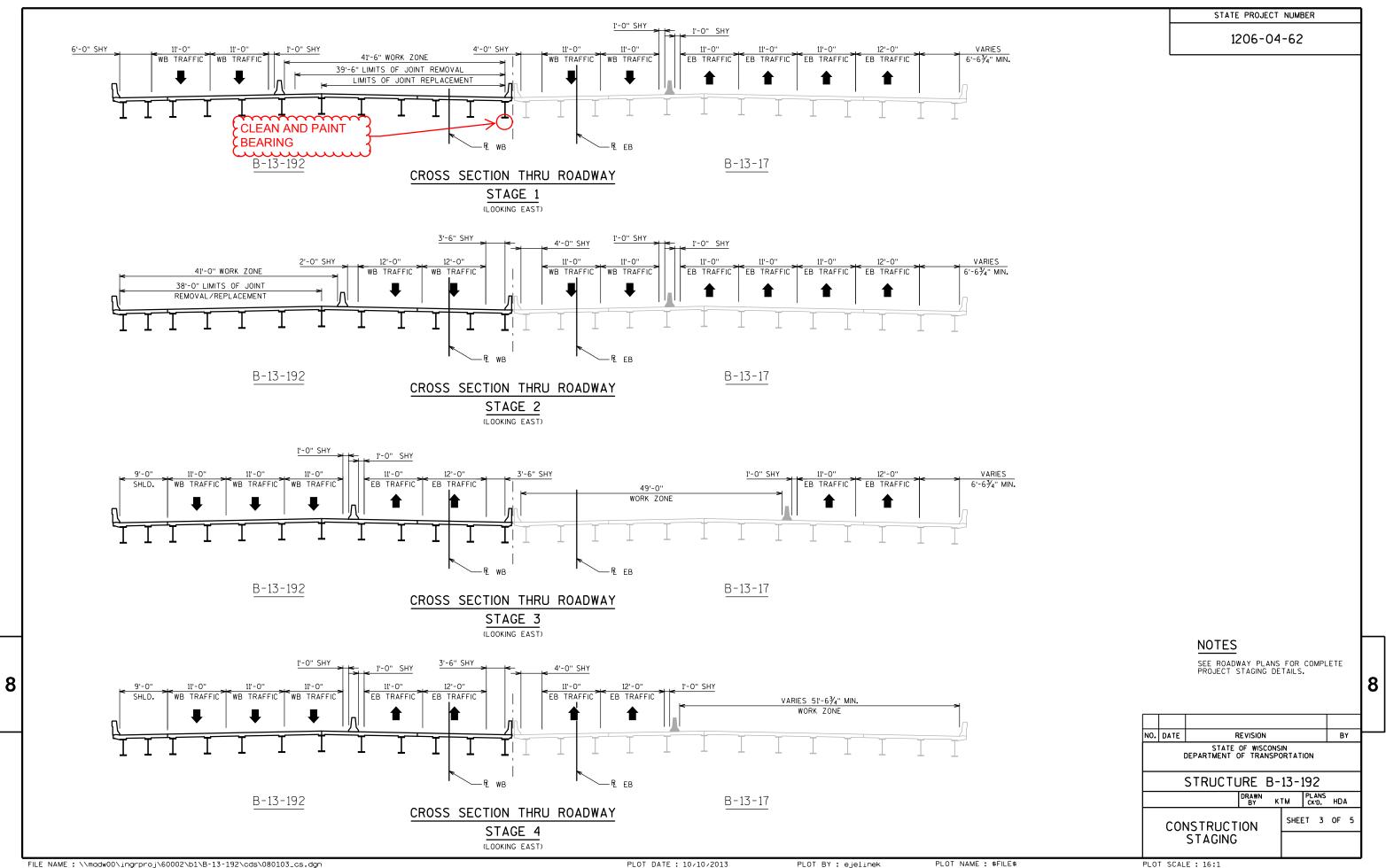
PLOT SCALE : 20:1

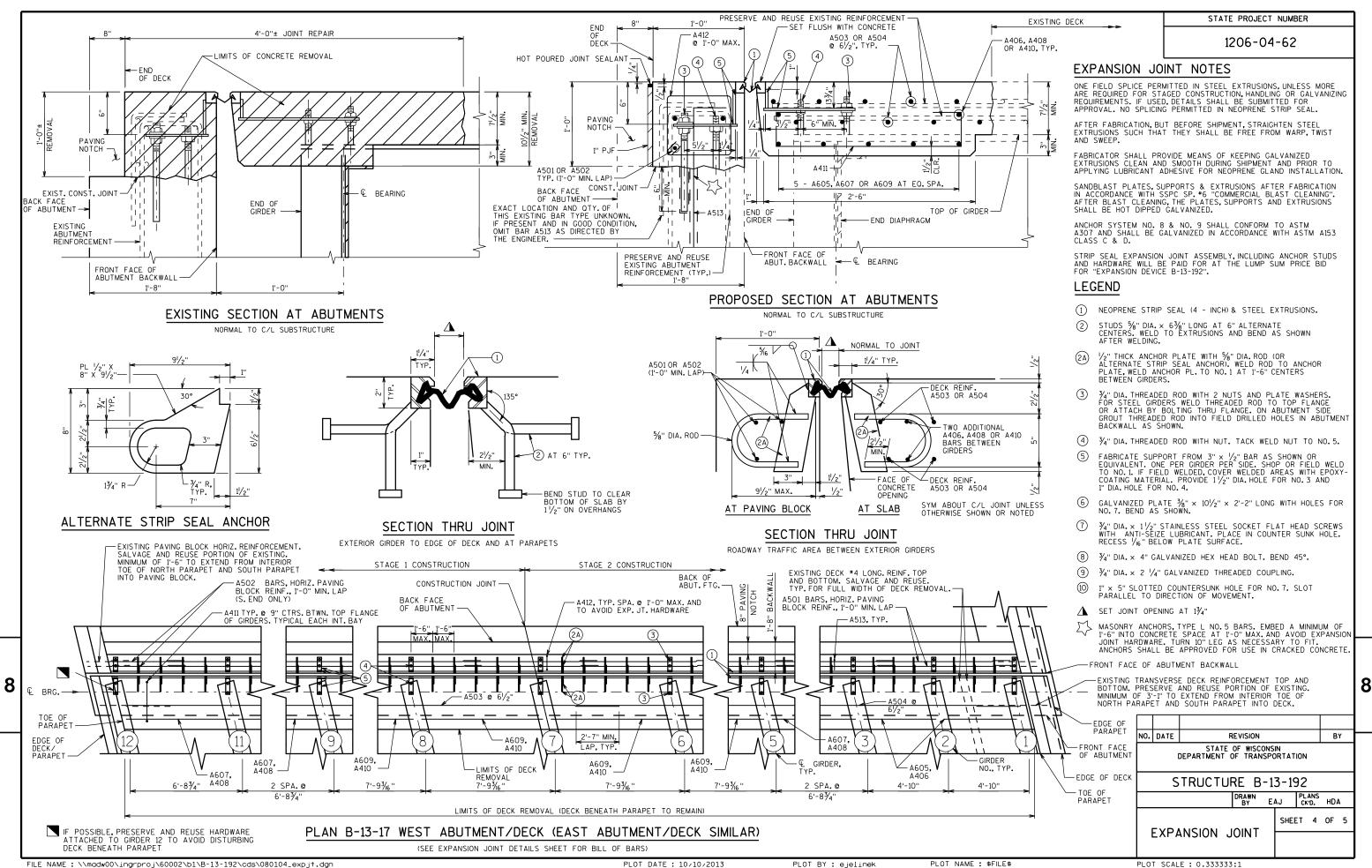
PIPE UNDERDRAIN NOTES REMOVE ANY EXISTING PIPE UNDERDRAIN BEHIND THE ABUTMENT AND WINGWALL. INCLUDED IN BID

EXCAVATE 6" MIN. BELOW BOTTOM OF FOOTING OR TO TOP OF SANDSTONE BEDROCK AS DIRECTED BY THE ENGINEER. ENGINEER TO INSPECT BASE OF FOOTING AND ROCK BELOW FOOTING FOR EROSION.

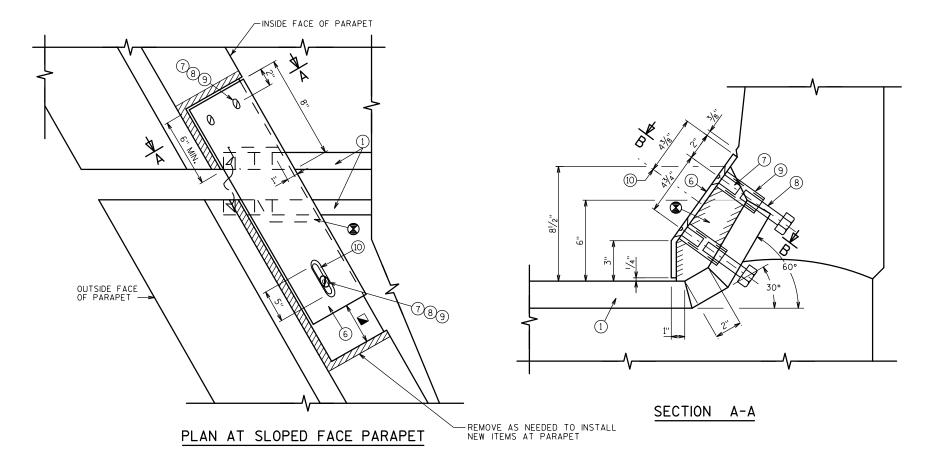
ITEM "REMOVING OLD STRUCTURE STA. 564WB+25."

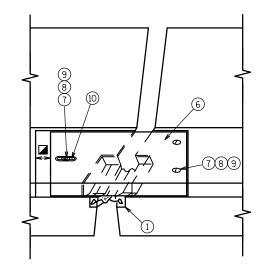
- FILL GAPS BETWEEN ABUTMENT FOOTING AND SANDSTONE BEDROCK WITH BACKFILL CONTROLLED LOW STRENGTH SPECIAL AS DIRECTED BY THE ENGINEER AND AS PER THE SPECIAL PROVISION.
- PIPE UNDERDRAIN WRAPPED 6-INCH, SLOPE 0.5% MIN. TO THE NORTH TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD TO END OF PIPE.
- PORTIONS OF ABANDONED WINGWALLS MAY REMAIN BELOW GRADE REMOVE AS NEEDED OR CORE THROUGH TO INSTALL NEW PIPE UNDERDRAIN IN PROPER LOCATION. PAID FOR UNDER BID ITEM "REMOVING OLD STRUCTURE STA. 564WB+25."
- TEMPORARY SHORING AS NEEDED PER STAGE TO ALLOW FOR STAGED CONSTRUCTION OF WORK



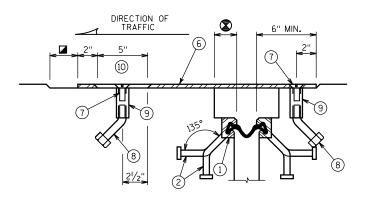


1206-04-62





VIEW OF SLOPED FACE PARAPET PLATES FROM ROADWAY

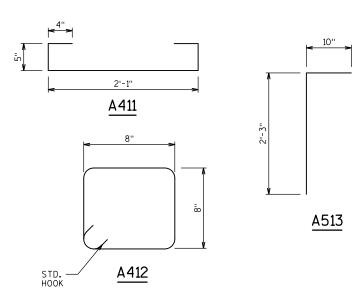


SECTION B-B

BILL OF BARS

	BAR MARK	CO47	NO. REQ'D.	LENGTH	8EN7	SERIES	LOCATION
r	A501	Х	60	8'-0"			PAVING BLOCK - HORIZ. STAGES 1 AND 2
Γ	A502	Х	6	4'-3"			PAVING BLOCK - HORIZ. STAGE 1
Γ	A503	Х	20	40'-0"			DECK - TRANSVERSE STAGE 1
Γ	A504	Х	20	37'-2"			DECK - TRANSVERSE STAGE 2
	A605	Χ	20	4'-4"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS STAGE 2
	A406	Χ	16	4'-4"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS STAGE 2
	A607	Χ	50	6'-2"			DIAPHRAGM - HORIZ.BETWEEN GIRDERS STAGES 1 AND 2
	A408	Χ	40	6'-2"			DIAPHRAGM - HORIZ.BETWEEN GIRDERS STAGES 1 AND 2
	A609	Χ	40	7'-3"			DIAPHRAGM - HORIZ.BETWEEN GIRDERS STAGES 1 AND 2
	A410	Χ	32	7'-3"			DIAPHRAGM - HORIZ.BETWEEN GIRDERS STAGES 1 AND 2
	A411	Х	194	3'-3"	Х		DIAPHRAGM - STIRRUPS BETWEEN GIRDERS
Λ[A412	Х	152	3'-2"	Х		PAVING BLOCK - STIRRUP
][A513	Х	152	3'-0"	Х	·	PAVING BLOCK - ANCHOR

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



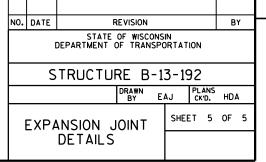
NOTE

SEE EXPANSION JOINT SHEET FOR ADDITIONAL INFORMATION.

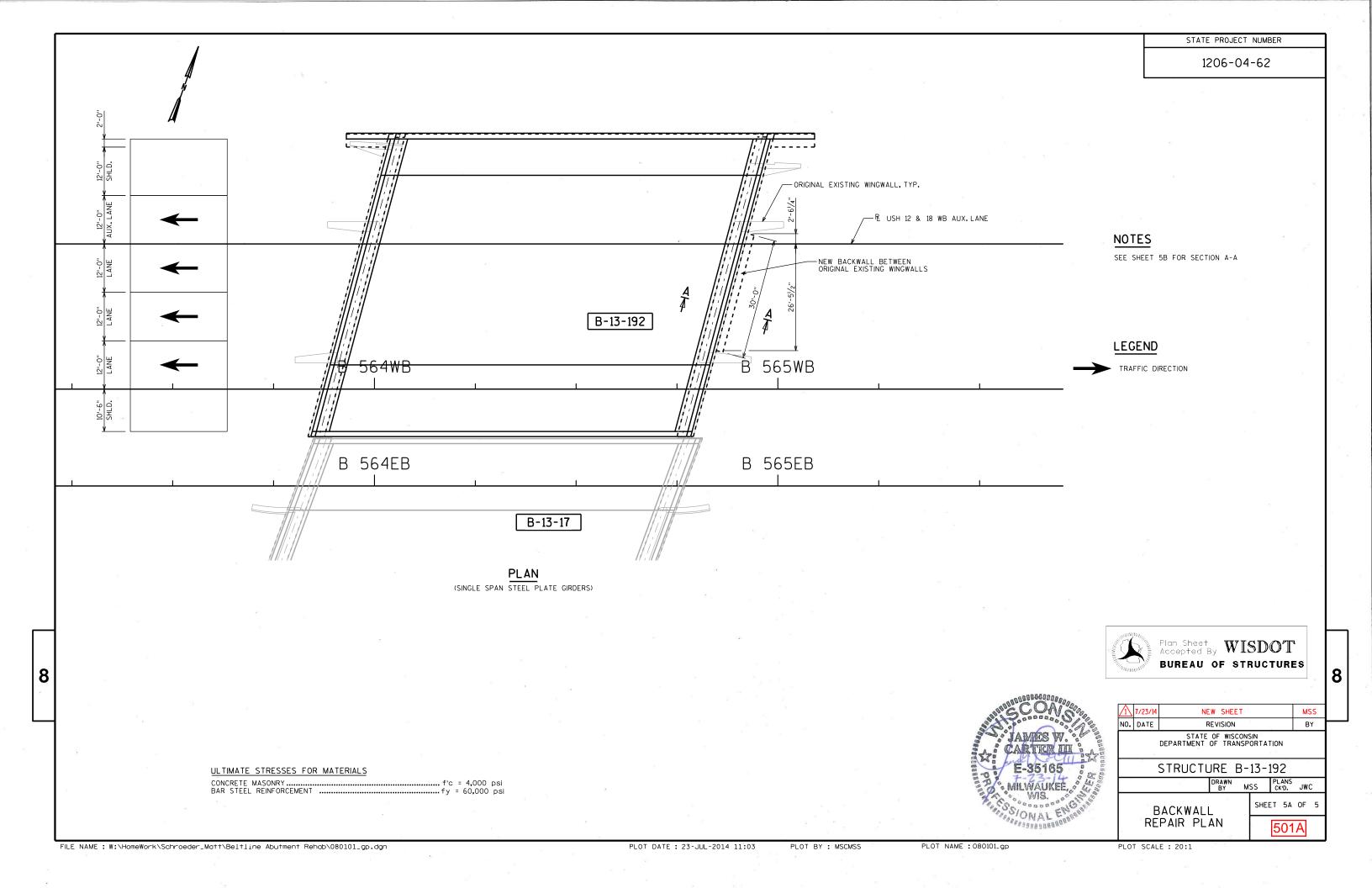
LEGEND

BLOCK OUT CONCRETE 2" EACH SIDE FOR JOINT OPENING

JOINT OPENING DIM. ALONG SKEW PLUS 1/2"



8



8

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET.

UNDER THE BID ITEM "MASONRY ANCHORS TYPE L NO.5 BARS", ANCHORED REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFORCEMENT.

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

ALL REINFORCING BARS ARE ENGLISH. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

CLEAN AND FILL EXISTING CRACKS IN BACKWALL WITH POLYURETHANE CRACK SEALER. PAYMENT IS INCIDENTAL TO "CONCRETE MASONRY BRIDGES".

THE EASTBOUND AND WESTBOUND ALIGNMENTS SHOWN ON THE PLANS ARE PARALLEL TO EACH OTHER.

INSTALL AT EXISTING PAVING NOTCH A NEW 1" POLYSTYRENE PAD THE LENGTH OF THE RETROFIT WHICH SHALL BE CONSIDERED INCIDENTAL TO "CONCRETE MASONRY BRIDGES".

EXISTING UTILITIES ATTACHED TO THE BRIDGE TO REMAIN IN PLACE AND IN SERVICE.

BEVEL EDGES OF EXPOSED CONCRETE TO MATCH EXISTING BEVELS UNLESS OTHERWISE NOTED.

BACKWALL REPAIR ESTIMATED QUANTITIES

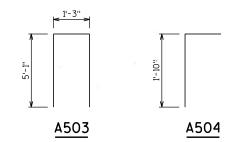
ITEM NO.	BID ITEM	UNIT	TOTAL
502.0100	CONCRETE MASONRY BRIDGES	CY	14
502.5005	CONCRETE MASONRY ANCHORS TYPE L NO.5 BARS	EACH	80
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	1,240
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	6
40	Yi .		
	NON-BID ITEMS		
	POLYURETHANE JOINT SEALER	-	-
	POLYSTYRENE	SIZE	1"

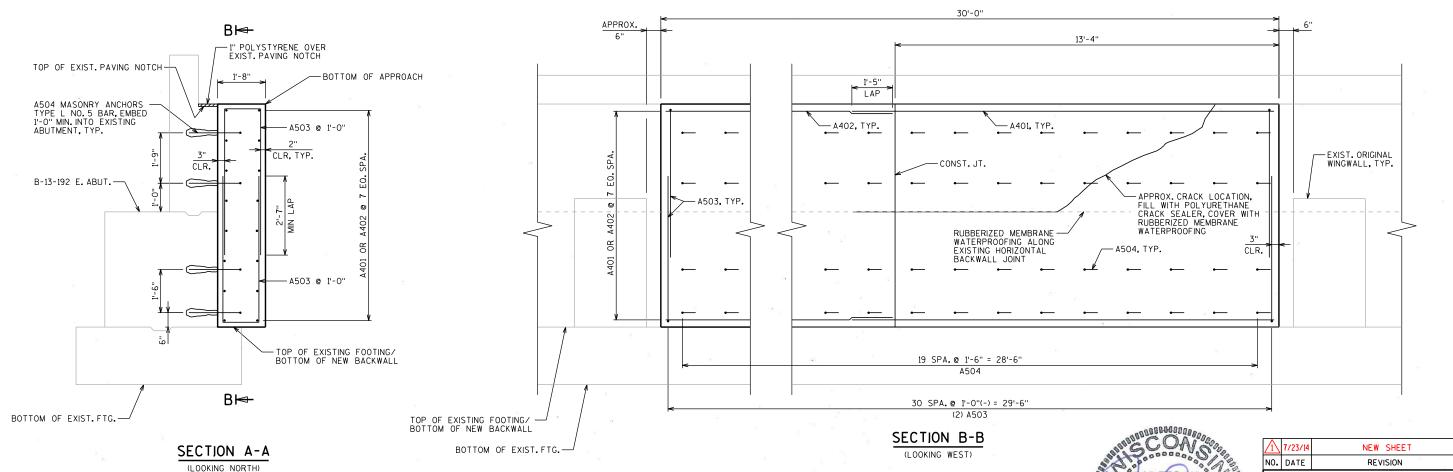
BILL OF BARS

BAR MARK	C047	NO. REQ'D.	LENGTH	BENT	SERIES	LOCATION
A401	Х	16	14'-8"			BACKWALL - HORIZ.
A402	Χ	16	16'-4"			BACKWALL - HORIZ.
A503	Χ	62	11'-2"	Χ		BACKWALL - VERT.
A504	Х	80	2'-3"	Х		BACKWALL - ANCHORS

STATE PROJECT NUMBER

1206-04-62





Plan Sheet WISDOT Accepted By BUREAU OF STRUCTURES

JAMES W.

CARTER DI

E-35165

MILWAUKEE,
WIS.

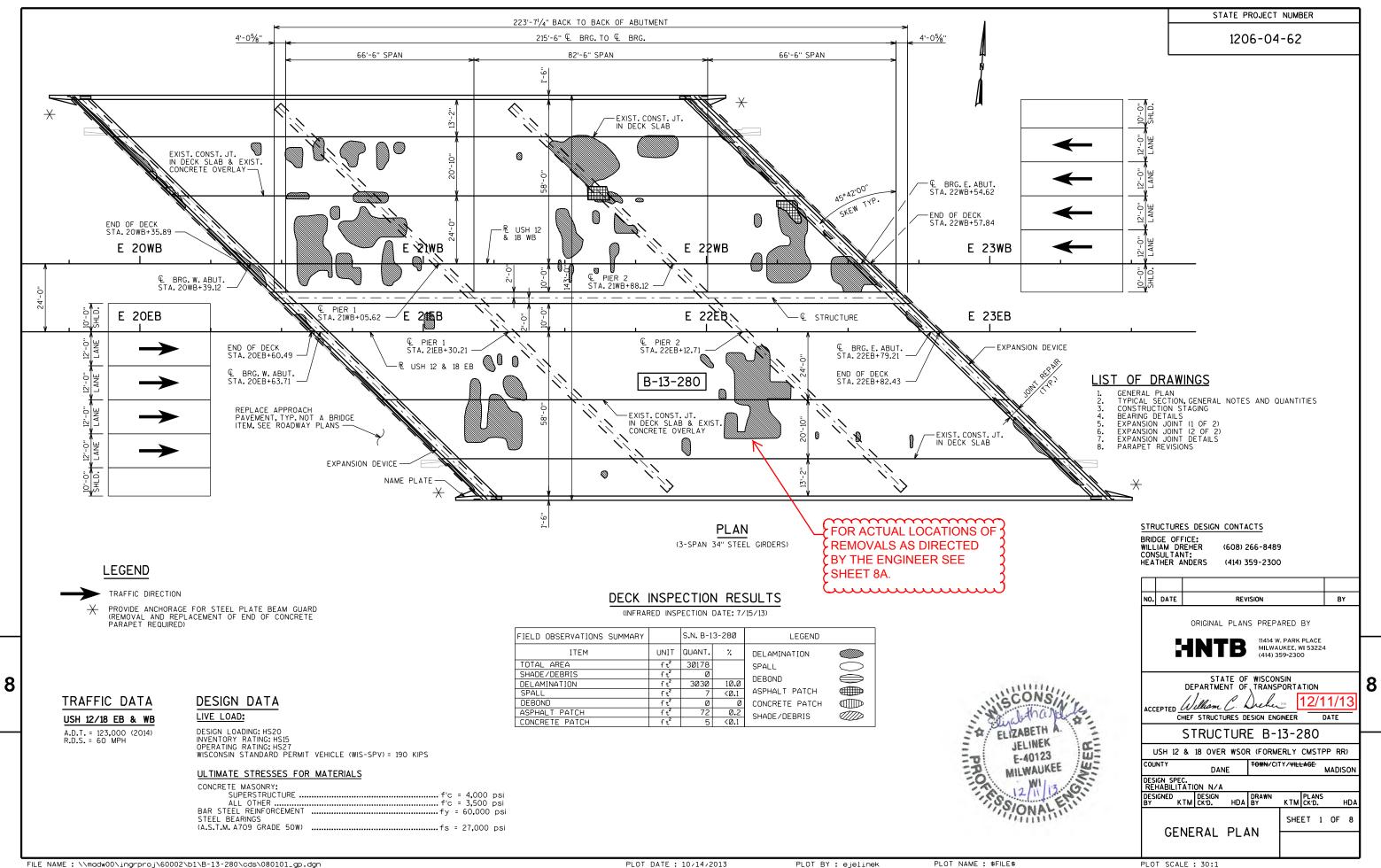
7/23/14 NEW SHEET MSS
NO. DATE REVISION BY
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-192

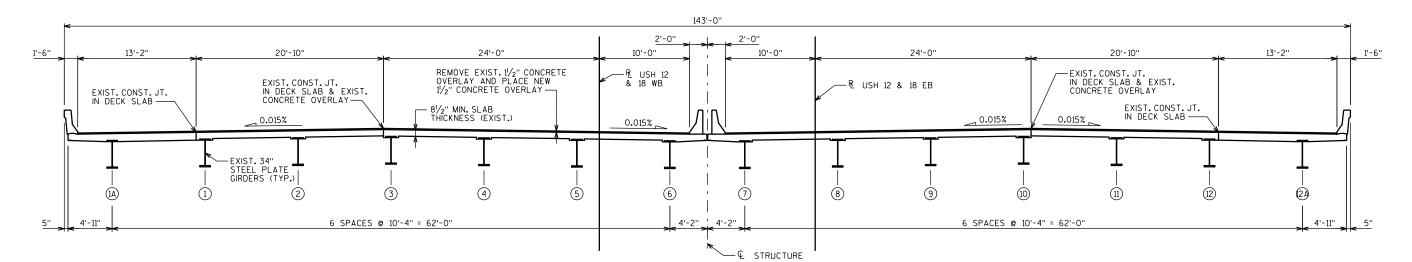
| DRAWN | MSS | PLANS | CKD. JWC

BACKWALL REPAIR DETAILS

501B



1206-04-62



DECK CROSS SECTION

(LOOKING EAST)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET.

INFRARED INSPECTION DATA PROVIDED FOR INFORMATION ONLY, INFRARED INSPECTION

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER:

- PREPARATION DECKS
- CONCRETE SURFACE REPAIR
 FULL DEPTH DECK REPAIR

QUANTITES SHOWN FOR THE ABOVE BID ITEMS, EXCEPT BEARING WORK, ARE

UNDER THE BID ITEM "MASONRY ANCHORS TYPE L", ANCHORED REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFORCEMENT.

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

ALL REINFORCING BARS ARE ENGLISH. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

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

EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE, SHALL BE PAID FOR IN THE LUMP SUM PRICE BID AS "EXPANSION DEVICE B-13-280".

CONTACT THE BUREAU OF STRUCTURES DESIGN SECTION BEFORE PLACEMENT OF THE OVERLAY IF THE AVERAGE THICKNESS OF THE NEW OVERLAY WILL EXCEED 1/2" MORE THAN THE AVERAGE OVERLAY THICKNESS SHOWN ON THIS PLAN.

"PROTECTIVE SURFACE TREATMENT" SHALL BE APPLIED ON STRUCTURE B-13-280 TO THE FOLLOWING SURFACES:

- TOP OF DECK/SLAB OVERLAY
- TOP AND INSIDE FACES OF NEW CONCRETE AT PARAPET REPAIRS/REPLACEMENTS

PROTECTIVE SURFACE TREATMENT, PAID FOR UNDER "PROTECTIVE SURFACE TREATMENT RESEAL" SHALL BE APPLIED ON STRUCTURE B-13-280 TO THE FOLLOWING SURFACES: TOP AND INSIDE FACES OF EXISTING PARAPETS

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M153 TYPE 1, 2, OR 3, OR AASHTO M213.

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1" JOINT FILLER WITH HOT POURED JOINT SEALANT ($\frac{1}{2}$ " DEEP AND HOLD $\frac{1}{4}$ " BELOW SURFACE OF CONCRETE).

REMOVE DESIGNATED MOVEABLE BEARING ASSEMBLIES AT THE ABUTMENTS AND PIERS UNDER THE BID ITEM "REMOVING BEARINGS B-13-280" AND REPLACE IN KIND.

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

REPLACEMENT MOVEABLE BEARINGS SHALL BE PAINTED LIGHT GRAY, FEDERAL COLOR NUMBER 26293.

REMOVE EXISTING CONCRETE OVERLAY. MILL SURFACE OF ORIGINAL DECK ±1/4". MILLING SHALL BE INCLUDED WITH THE BID ITEM "REMOVING CONCRETE MASONRY DECK OVERLAY".

THE EASTBOUND AND WESTBOUND ALIGNMENTS SHOWN ON THE PLANS ARE PARALLEL TO EACH OTHER.

NEW CONCRETE AT JOINT REPAIR IS PAID FOR AS "CONCRETE MASONRY OVERLAY DECKS".

INSTALL AT PAVING NOTCH A NEW 1" PREFORMED JOINT FILLER WHICH SHALL BE CONSIDERED INCIDENTAL TO "CONCRETE MASONRY OVERLAY DECKS".

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

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW ORIGINAL CONSTRUCTION YEAR.

"REMOVING OLD STRUCTURE STA. 22EB+00" INCLUDES PARTIAL REMOVAL OF ALL

"CONCRETE MASONRY BRIGES" INCLUDES CONCRETE REQUIRED TO REPAIR/REPLACE PARAPET AT ALL WINGWALLS.

BEVEL EDGES OF EXPOSED CONCRETE TO MATCH EXISTING BEVELS UNLESS OTHERWISE

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
203.0200.05	REMOVING OLD STRUCTURE STA. 22EB+00	LS	1
203 . 0225 . S	DEBRIS CONTAINMENT B-13-280	LS	1
502.0100	CONCRETE MASONRY BRIDGES	CY	3
502.3100.05	EXPANSION DEVICE B-13-280	LS	1
502.3200	PROTECTIVE SURFACE TREATMENT	SY	3,364
502 . 3215 . S	PROTECTIVE SURFACE TREATMENT RESEAL	SY	350
502.5005	MASONRY ANCHORS TYPE L NO.5 BARS	EACH	404
502.5010	MASONRY ANCHORS TYPE L NO.6 BARS	EACH	40
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	15,470
505.0904	BAR COUPLERS NO. 4	EACH	32
505.0905	BAR COUPLERS NO. 5	EACH	24
505.0906	BAR COUPLERS NO. 6	EACH	80
506.0907	BAR COUPLERS NO. 7	EACH	40
506.6000	BEARING ASSEMBLIES EXPANSION B-13-280	EACH	4
506.7050.S	REMOVING BEARINGS B-13-280	EACH	4
509.0301	PREPARATION DECKS TYPE 1	SY	402
509.0302	PREPARATION DECKS TYPE 2	SY	161
509.1000	JOINT REPAIR	SY	173
509.1500	CONCRETE SURFACE REPAIR	SF	40
509.2000	FULL-DEPTH DECK REPAIR	SY	67
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	293
509.9005.S	REMOVING CONCRETE MASONRY DECK OVERLAY B-13-280	SY	3,181
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	4
SPV.0090.05	SILICONE BRIDGE JOINT SEALANT	LF	222
SPV.0180.03	CLEAN ABUTMENT SEATS	SY	112
	NON-BID ITEMS		
	NAME PLATE	EACH	1
	PREFORMED JOINT FILLER	SIZE	1"
ALL ITEMS ARE	CATEGORY 0070		

ALL ITEMS ARE CATEGORY 0070

PLOT NAME : \$FILE\$

NO. DATE REVISION BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-13-280 DRAWN KTM PLANS TYPICAL SECTION. SHEET 2 OF GENERAL NOTES AND QUANTITIES

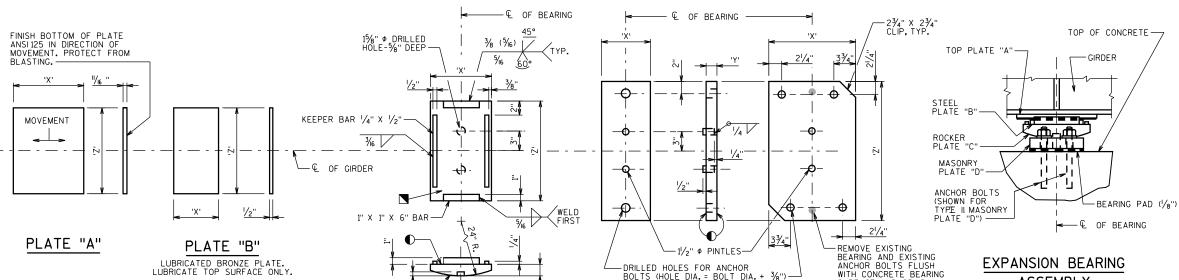
STATE PROJECT NUMBER 1206-04-62 _____0" __1'-0" SHY 1'-0" SHY WB TRAFFIC EB TRAFFIC EB TRAFFIC WB TRAFFIC WB TRAFFIC EB TRAFFIC EB TRAFFIC 31'-0" WORK ZONE WORK ZONE 17'-0" JOINT 28'-0" JOIN REMOVAL/REPLACEMENT REMOVAL/REPLACEMENT CROSS SECTION THRU ROADWAY STAGE 1 (LOOKING EAST) 1'-0" SHY EB TRAFFIC 1'-0" SHY 1'-0" SHY 11'-0" WB TRAFFIC 1'-0" SHY <u>1'-0" SHY</u> 1'-0" SHY 11'-0" 1'-0" SHY 11'-0" 11'-0" 11'-0" EB TRAFFIC WB TRAFFIC WB TRAFFIC EB TRAFFIC 27'-0" 27'-0" WORK ZONE WORK ZONE 22'-0" JOINT 22'-0" JOINT REMOVAL/REPLACEMENT REMOVAL/REPLACEMENT CROSS SECTION THRU ROADWAY STAGE 2 (LOOKING EAST) 1'-0" SHY 1'-0" SHY 11'-0'' 11'-0" 11'-0" WB TRAFFIC WB TRAFFIC WB TRAFFIC EB TRAFFIC EB TRAFFIC EB TRAFFIC WB TRAFFIC 31'-0" 20'-0" WORK ZONE WORK ZONE NOTES 29'-0" JOINT 18'-0" JOINT REMOVAL/REPLACEMENT N REMOVAL/REPLACEMENT SEE ROADWAY PLANS FOR COMPLETE PROJECT STAGING DETAILS. 8 8 NO. DATE REVISION BY CROSS SECTION THRU ROADWAY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STAGE 3 (LOOKING EAST) STRUCTURE B-13-280 DRAWN BY KTM PLANS CK'D. HDA SHEET 3 OF 8 CONSTRUCTION

PLOT BY: ejelinek

STAGING



1206-04-62



-DRILLED HOLES FOR ANCHOR BOLTS (HOLE DIA. = BOLT DIA. + 3/8")

MASONRY PLATE "D"

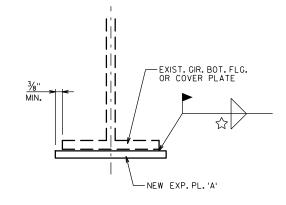
EXPANSION BEARING

TYPE I

	PLATE "A"		PLATE "B"		PLATE "C"			PLATE "D"		PLATE	ANCHOR BOLT	NO. OF BRG'S	LOCATION	
	'X'	'Z'	'X'	'Z'	'X'	'Y'	'Z'	'X'	'Y'	'Z'	TYPE	SIZE		LOCATION
Z.C	11''	1'-2"	7''	1'-2"	9"	1"/16 "	1'-4 ¹ / ₄ ''	1'-3''	11/2"	2'-0"	П	1 /4" φ	4	ABUTMENTS - SEE LOCATION PLAN
EXPANSION BEARING														
(PA 3EA														

∠ANSI 250 FINISH

ROCKER PLATE "C"



BEARING REPLACEMENT DETAILS

SURFACE AND GRIND

SMOOTH.

TYPE I

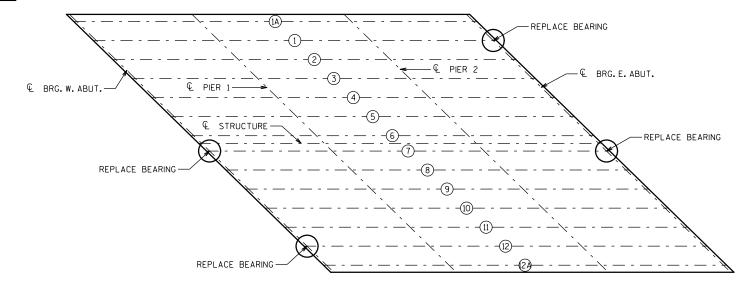
ASSEMBLY

TABLE OF FILLET WELD SIZES

MATERIAL THICKNESS OF THICKER PART JOINED.	+ MIN. SIZE OF FILLET WELD
TO 1/2" INCLUSIVE	3/6"
OVER 1/2" TO 3/4"	1/4"
OVER 3/4" TO 11/2"	△ 5/6"
OVER 1 1/2" TO 21/4"	△ ¾"
OVER 21/4" TO 6"	△ 1/2"

† EXCEPT THAT THE WELD SIZE SHALL NOT EXCEED THE THICKNESS OF THE THINNER PART JOINED.

△MIN. PASS SIZE IS 1/6"



BEARING REPLACEMENT LOCATIONS

(X) GIRDER NUMBER

REMOVE INDICATED BEARINGS.CUT OFF EXISTING ANCHORS BOLTS AND GRIND FLUSH WITH ABUTMENT SEAT.PAID FOR UNDER BID ITEM "REMOVING BEARINGS B-13-280".

BEARING NOTES

ALL BEARINGS ARE SYMMETRICAL ABOUT \P OF GIRDER AND \P

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL.

ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL FINISHED SURFACES SHALL BE MACHINE FINISHED BY AN AUTOMATIC PROCESS.

CHAMFER ANCHOR BOLTS PRIOR TO THREADING.

ANCHOR BOLTS SHALL BE THREADED 3". PROVIDE ONE STANDARD WROUGHT WASHER AND ONE HEX NUT PER BOLT. BOLT LENGTH TO BE 1'-5 FOR 1 1/4" \$\phi\$ AND 1'-10 FOR 1 1/2" \$\phi\$ BOLTS. PROJECT ANCHOR BOLTS, MASONRY PLATE "D" THICKNESS + 2 1/4", ABOVE TOR OF COLUMNIETE TOP OF CONCRETE.

CHAMFER TOP OF PINTLES $1/\!\!/_8$. DRILL HOLES FOR ALL PINTLES IN MASONRY PLATE "D" FOR A DRIVING FIT.

ALL MATERIAL IN BEARINGS, INCLUDING SHIM PLATES, BUT EXCLUDING ANCHOR BOLTS, PINTLES, NUTS AND WASHERS SHALL CONFORM TO ASTM A709 GRADE 50W.

STEEL PINTLES SHALL CONFORM TO ASTM A449 OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A709 GRADE 36, OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

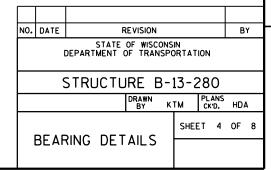
PROVIDE ${\rm 1/6}^{\rm m}$ Thick bearing PAD the same size as masonry plate "D" for each bearing.

ALL MATERIAL IN BEARINGS, INCLUDING SHIM PLATES AND BEARING PADS, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "BEARING ASSEMBLIES EXPANSION B-13-280", EACH.

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153, CLASS C.

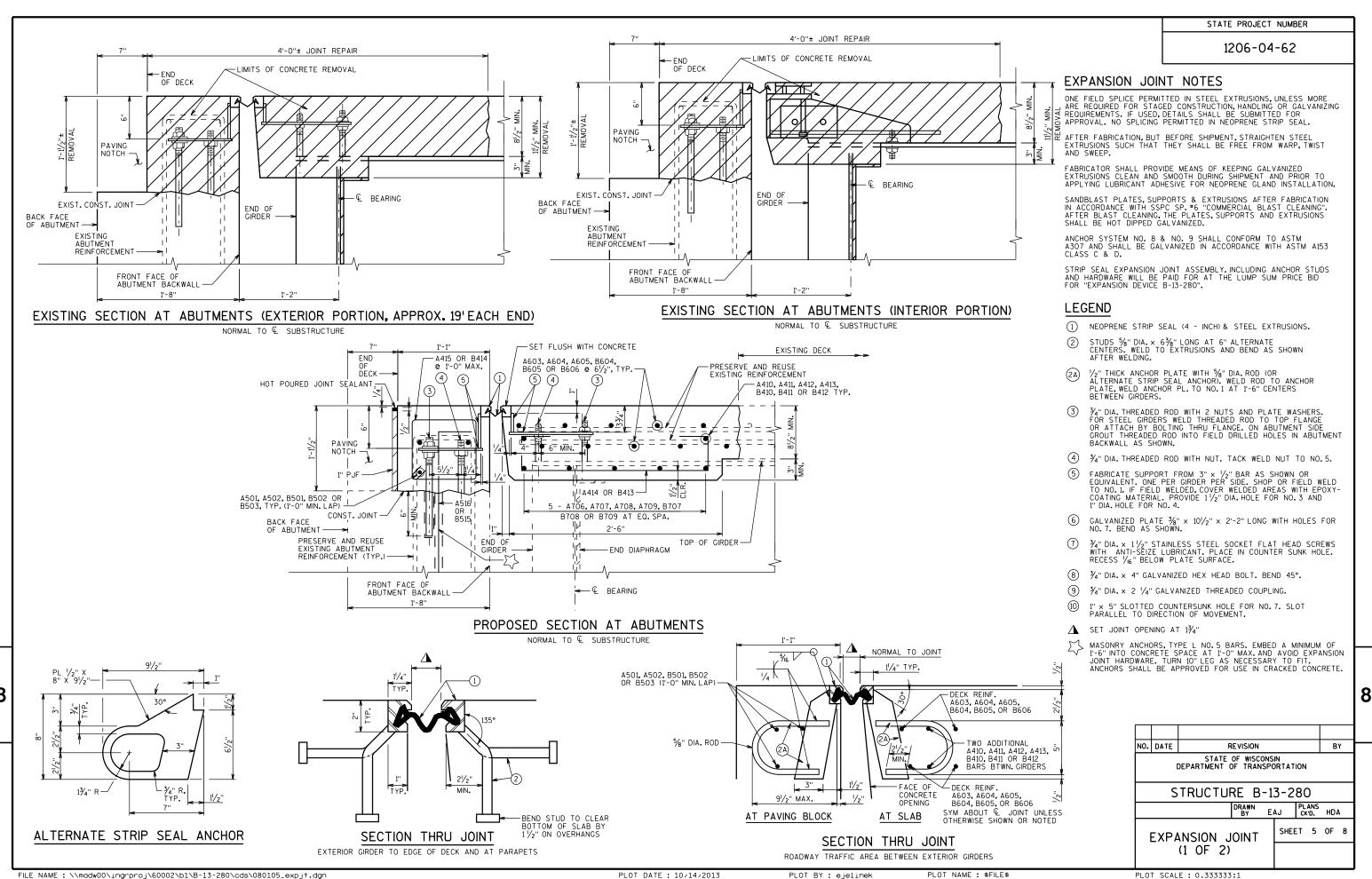
EXPANSION BEARINGS:
TOP PLATE "A" AND STEEL PLATE "B" SHALL BE SHOP PAINTED.
USE A WELDABLE PRIMER ON TOP PLATE "A".
ROCKER PLATE "C" AND MASONRY PLATE "D" SHALL BE GALVANIZED.

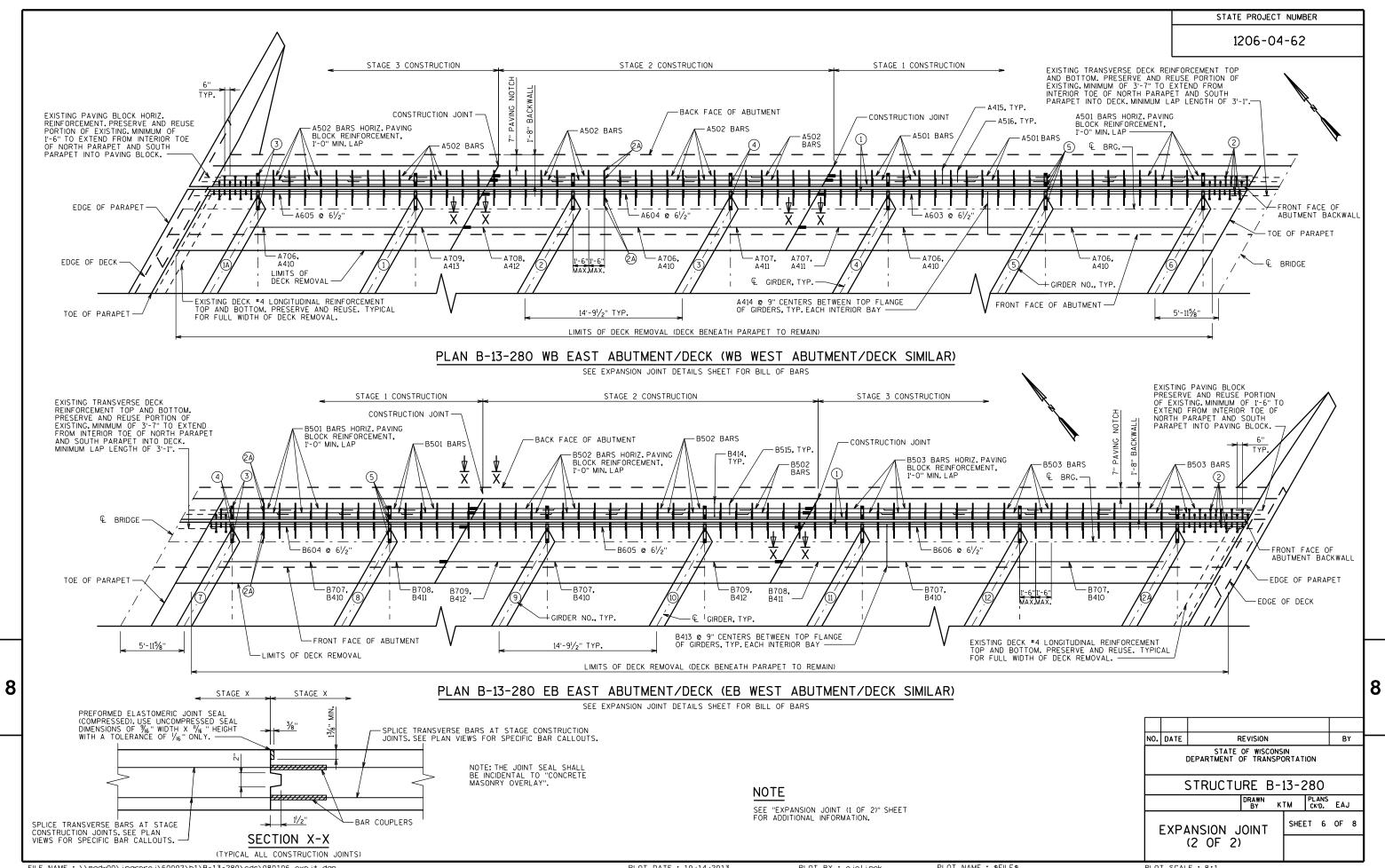
- FINISH THESE SURFACES TO ANSI 250 IF 'Y' DIMENSION IS GREATER
- PROVIDE A METHOD FOR HANDLING ROCKER PLATE "C" DURING GAL VANIZING.



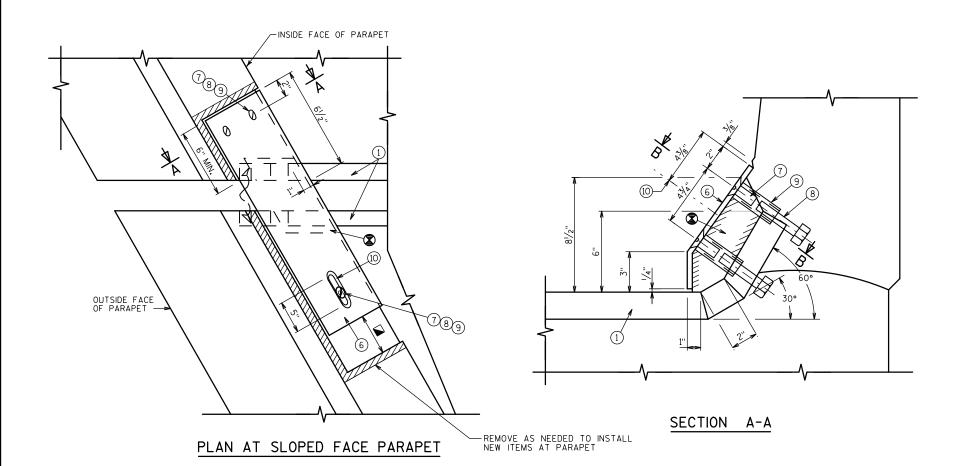
8

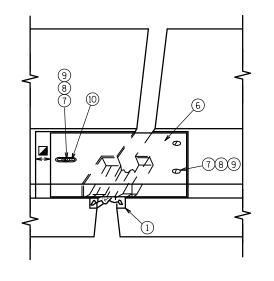
PLOT BY: ejelinek



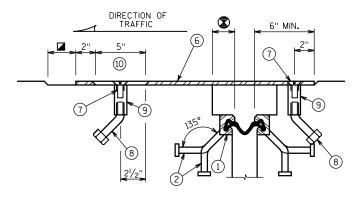


1206-04-62





VIEW OF SLOPED FACE PARAPET PLATES FROM ROADWAY



SECTION B-B

NOTE

SEE EXPANSION JOINT SHEETS FOR ADDITIONAL INFORMATION.

LEGEND

BLOCK OUT CONCRETE 2" EACH SIDE FOR JOINT OPENING

JOINT OPENING DIM. ALONG SKEW PLUS 1/2"

B-13-280 WB BILL OF BARS

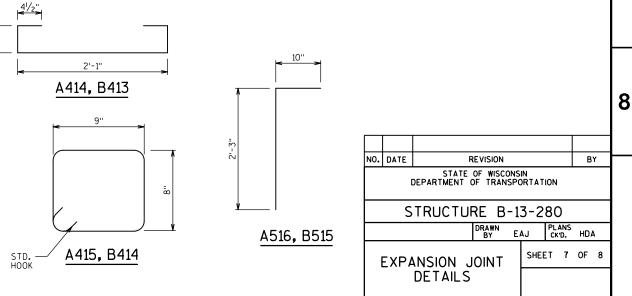
	BAR MARK	CO4>	NO. REQ'D.	LENGTH	BENT	SERIES	LOCATION
Ī	A501	Х	36	7'-6"			PAVING BLOCK - HORIZ. STAGE 1
	A502	Х	54	7'-2"			PAVING BLOCK - HORIZ. STAGES 2 & 3
	A603	Х	20	39'-10"			DECK - TRANSVERSE STAGE 1
	A604	Х	20	31'-6"			DECK - TRANSVERSE STAGE 2
	A605	Х	20	25'-6"			DECK - TRANSVERSE STAGE 3
	A706	Х	40	14'-3"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS
	A707	Х	20	7'-1"			DIAPHRAGM - HORIZ.BETWEEN GIRDERS STAGES 1 & 2
	A708	Х	10	9'-0"			DIAPHRAGM - HORIZ.BETWEEN GIRDERS STAGE 2
	A709	Х	10	5'-2"			DIAPHRAGM - HORIZ.BETWEEN GIRDERS STAGE 3
- [A410	Х	32	14'-3"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS
- [A411	Х	16	7'-1"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS STAGES 1 & 2
- [A412	Х	8	9'-0"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS STAGE 2
- [A413	Х	8	5'-2"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS STAGE 3
- [A414	Х	228	3'-5"	Х		DIAPHRAGM - STIRRUPS BETWEEN GIRDERS
_ [A 415	Х	196	3'-4"	Х		PAVING BLOCK - STIRRUP
72[A516	Х	196	3'-0"	Х		PAVING BLOCK - ANCHOR

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

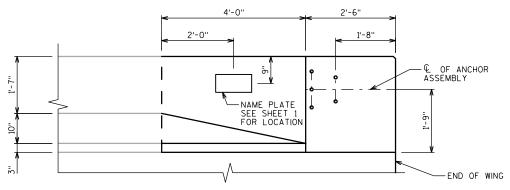
B-13-280 EB BILL OF BARS

BA MA	AR .RK	C047	NO. REQ'D.	LENGTH	BENZ	SERIES	LOCATION
B5	01	Х	24	6'-10"			PAVING BLOCK - HORIZ. STAGE 1
B5	02	Х	30	7'-2"			PAVING BLOCK - HORIZ. STAGE 2
B5	03	Х	36	7'-9"			PAVING BLOCK - HORIZ. STAGE 3
B6	04	Х	20	24'-1"			DECK - TRANSVERSE STAGE 1
B6	05	Х	20	31'-6"			DECK - TRANSVERSE STAGE 2
В6	06	Х	20	41'-3"			DECK - TRANSVERSE STAGE 3
В7	07	Х	40	14'-3"			DIAPHRAGM - HORIZ.BETWEEN GIRDERS
В7	80	Х	20	6'-2"			DIAPHRAGM - HORIZ.BETWEEN GIRDERS STAGES 1 & 3
В7	09	Х	20	8'-1"			DIAPHRAGM - HORIZ.BETWEEN GIRDERS STAGE 2
В4	10	Х	32	14'-3"			DIAPHRAGM - HORIZ.BETWEEN GIRDERS
В4	111	Х	16	6'-2"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS STAGES 1 & 3
В4	12	Χ	16	8'-1"			DIAPHRAGM - HORIZ. BETWEEN GIRDERS STAGE 2
В4	13	Х	228	3'-5"	Χ		DIAPHRAGM - STIRRUPS BETWEEN GIRDERS
В4	114	Х	196	3'-4"	Χ		PAVING BLOCK - STIRRUP
7 B5	15	Χ	196	3'-0"	Χ		PAVING BLOCK - ANCHOR

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

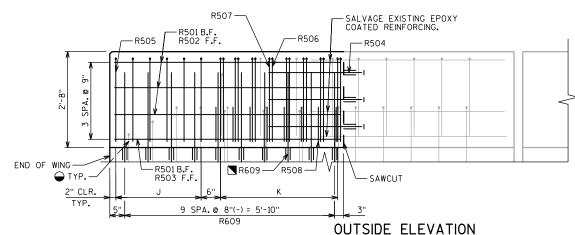


1206-04-62

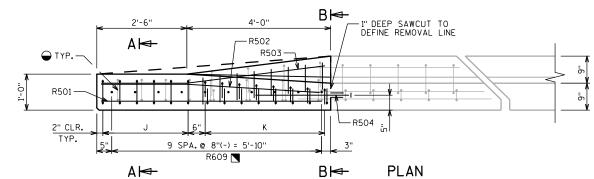


INSIDE ELEVATION

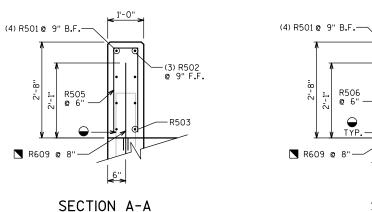
NE AND SW WINGS SHOWN. NW AND SE SIMILAR.



NE AND SW WINGS SHOWN. NW AND SE SIMILAR.

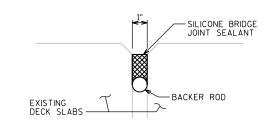


NE AND SW WINGS SHOWN. NW AND SE SIMILAR. 'J' = 5 SPA. @ 6" (-), R505 'K' = 7 SPA. @ 6" (-), R506, R507, R508

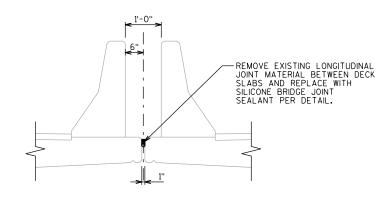


-R507 **@** 6" -(3) R504 @ 9" 🗸 -(3) R502 @ 9" F.F. -R503

SECTION B-B

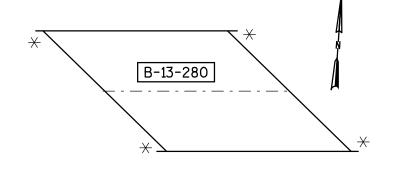


SILICONE BRIDGE JOINT SEALANT DETAIL



LONGITUDINAL JOINT BETWEEN DECK SLABS

- SALVAGE EXISTING VERTICAL REINFORCEMENT BARS AND INCORPORATE INTO NEW WORK. BEND EXISITNG BARS AS NECESSARY TO FIT NEW PARAPET SHAPE.
- ▲ MASONRY ANCHORS, TYPE L NO.5 BARS. EMBED 6"
 IN CONCRETE. ANCHORS SHALL BE APPROVED FOR
 USE IN CRACKED CONCRETE.
- MASONRY ANCHORS, TYPE L NO.6 BARS. EMBED 6"
 IN CONCRETE. ANCHORS SHALL BE APPROVED FOR
 USE IN CRACKED CONCRETE.



LOCATION PLAN

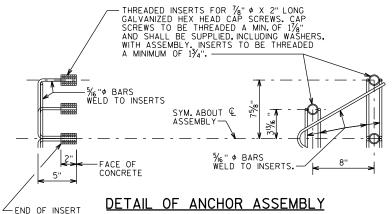
WING LOCATION FOR PARAPET REMOVAL AND REPLACEMENT

BILL OF BARS

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

BAR MARK	CORT	NO. REQ'D	LENGTH	SEN N	LOCATION
R501	Х	16	6'-2"		HORIZONTAL BACK FACE
R502	Х	12	6'-2"	Χ	HORIZONTAL FRONT FACE
R503	Х	4	6'-2"	Χ	HORIZONTAL FRONT FACE
R504	Х	12	2'-7"		HORIZONTAL DOWEL
R505	Х	24	5'-1"	Χ	VERTICAL STIRRUP
R506	Х	32	2'-7"	Χ	VERTICAL BACK FACE
R507	Х	32	2'-7"	Χ	VERTICAL FRONT FACE
R508	Х	32	1'-3"		VERTICAL FRONT FACE
R609	Х	40	2'-7"		VERTICAL DOWEL

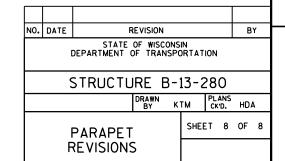
FIELD BEND R502 R505 R506 R507 R503



DETAIL OF ANCHOR ASSEMBLY

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

ASSEMBLY BID ITEM SHALL BE "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.



STRUCTURE B-13-280

EB & WB REMOVALS

DRAWN BY MJK PLANS CK'D.

SHEET 8A

509A

PRINTER DRIVER: St. acm-CADstds.Libraries\WISDOT\MicroStation\Resources\WS.Printing\Printer.Drivers\AE_PDF.11 x 17.plt
PEN TABLE: CAl.acm-CADstds.Libraries\WISDOT\Microstation\Resources\WS.Printing\Pen tables\AE_WisDOT.tbl
FILE NAME: P\c68317539\600-Construction Support\Dgns\As built plan\As-Built.pln Stg 1.dgn
PLOT DATE: 12/23/2014

137'-6" BACK TO BACK ABUTS. 67'-0" 67'-0" SPAN 1 SPAN 2 € BRG. W. ABUT & PIER-& BRG. E. ABUT B-13-318 - £ BRG.E.ABUT STA.G 744WB+15.47 — ₱2 USH 12 & 18 WB G 743WB G 744WB € BRG. W. ABUT. STA. G 742WB+81.47 E 133EB E 134EB DELAMINATION, PER— INFRARED DECK INSPECTION SPALL, PER INFRARED -DECK INSPECTION PLAN -RL USH 12 & 18 EB (2-SPAN 36" PRESTRESSED GIRDERS)

STATE PROJECT NUMBER

1206-04-62

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET.

SCOPE OF WORK FOR THIS STRUCTURE INCLUDES ONLY ISOLATED AREA(S) OF DECK PATCHING, LOCATIONS AND LIMITS OF THE FOLLOWING DECK PATCHING BID ITEMS TO BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER.

- PREPARATION DECKS
- SAWING PAVEMENT DECK PREPARATION AREAS

DECK PATCHING MATERIAL SHALL BE "POLYESTER POLYMER CONCRETE MASONRY".

QUANTITES SHOWN FOR ALL BID ITEMS ARE APPROXIMATE.

INFRARED INSPECTION DATA PROVIDED FOR INFORMATION ONLY. INFRARED INSPECTION PERFORMED BY AECOM, 7-16-2013.

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

LIST OF DRAWINGS

1. GENERAL PLAN

DECK INSPECTION RESULTS

(INFRARED INSPECTION DATE: 7/16/13)

FIELD OBSERVATIONS SUMMARY		S.N. B-1	3-318	LEGEND	
ITEM	UNIT	QUANT.	%	DELAMINATION	
TOTAL AREA	f t²	7150		SPALL	
SHADE/DEBRIS	f t²	0		DEBOND	
DELAMINATION	ft²	1	<0.1		
SPALL	f t²	1	<0.1	ASPHALT PATCH	
DEBOND	ft²	N/A	N/A	CONCRETE PATCH	
ASPHALT PATCH	f t²	0	0	SHADE/DEBRIS	OTTO
CONCRETE PATCH	ft²	0	Ø	JUNDE, DEDIKIS	WIII

LEGEND

TRAFFIC DIRECTION

TRAFFIC DATA

USH 12/18 EB & WB A.D.T. = 104,000 (2012) R.D.S. = 60 MPH

8

DESIGN DATA

RATINGS (TAKEN FROM HSI 12-9-2013)

DESIGN LOADING: HS20 INVENTORY RATING: HS23 OPERATING RATING: HS31 WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 190 KIPS

ULTIMATE STRESSES FOR MATERIALS

POLYESTER POLYMER CONCRETE MASONRY... f'c = 1,000 psi (8 HRS) 5,000 psi (24 HRS)

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
509.0301	PREPARATION DECKS TYPE 1	SY	0.6
509.0302	PREPARATION DECKS TYPE 2	SY	0.3
SPV.0025.01	POLYESTER POLYMER CONCRETE MASONRY	CF	1.9
SPV.0090.04	SAWING PAVEMENT DECK PREPARATION AREAS	LF	14

ALL ITEMS ARE CATEGORY 0010



12.20.2013

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE: WILLIAM DREHER CONSULTANT: HEATHER ANDERS (608) 266-8489 (414) 359-2300

NO. DATE BY REVISION ORIGINAL PLANS PREPARED BY 11414 W. PARK PLACE HNTB MILWAUKEE, WI 53224 (414) 359-2300 STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 8 ACCEPTED William C. Duche KAR 12/21/13
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-13-318

USH 12 & 18 WB OVER MONONA DR. TOWN/CITY/VILLAGE

SR BY

COUNTY DANE MONONA DESIGN SPEC. REHABILITATION N/A

GENERAL PLAN

SHEET 1 OF

HDA CK'D.

DESIGNED DESIGN BY HDA CK'D.

TABLE OF ESTIMATED QUANTITIES

Found no loose anchor rod connections that required tensioning as per specifications.

Found no loose or missing hardware that required tightening as per specifications.

Found no loose post-to-truss connection bolts or splice bolts that required tensioning as per specifications.

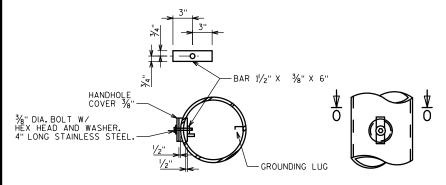
STATE PROJECT NUMBER

1206-04-62

	1			- V									
STRUCTURE NUMBER	ELEVATION VIEW SHEET	LOCATION	REPLACE MISSING CONDUIT PLUG	TENSION ANCHOR ROD	CLEAN AND PROTECT ANCHOR ROD	REMOVE SIGN BRIDGE WALKWAY	REMOVE GROUT PAD	INSTALL RODENT SCREEN	INSTALL OR TIGHTEN SIGN PANEL HARDWARE	INSTALL OR TIGHTEN HANDHOLE COVER BOLT	INSTALL SIGN BRIDGE ID PLAQUE	TENSION TRUSS CONNECTION BOLT	INSPECT PRIMARY BOLTED CONNECTIONS
	NUMBER		SPV.0060.05	SPV.0060.06	SPV.0060.07	SPV.0060.08	SPV.0060.09	SPV.0060.10	SPV.0060.11	SPV.0060.12	SPV.0060.13	SPV.0060.14	SPV.0105.01
			EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LS
S-13-68	2 OF 14	USH 12 & 18 EB 1/4 MILE WEST OF JOHN NOLEN DR.	1	2	6	1	1	1			1	9	
S-13-69	3 OF 14	USH 12 & 18 WB AT EXIT TO RIMROCK RD.	1		8	1	1	1	3	1	1	17	
S-13-70	4 OF 14	USH 12 & 18 EB 1/8 MILE WEST OF JOHN NOLEN DR.			4		1	1	1		1		
S-13-71	5 OF 14	USH 12 & 18 WB 1/8 MILE EAST OF RIMROCK RD.	1		8	1	1	1	1	2	1	7	
S-13-72	6 OF 14	USH 12 & 18 EB AT EXIT TO JOHN NOLEN DR.	1		8	1	1	1	1		1	6	
S-13-73	7 OF 14	USH 12 & 18 WB AT EXIT TO CTH D	1	8				1			1		
S-13-74	8 OF 14	USH 12 & 18 WB 1/4 MILE EAST OF FISH HATCHERY RD.	1			1		1	1		1		
S-13-149	9 OF 14	USH 12 & 18 EB 1/2 MILE WEST OF 1-39/90		6				2	6			2	
S-13-150	10 OF 14	USH 12 & 18 EB 1/2 MILE WEST OF 1-39/90						2	2			22	
S-13-151	11 OF 14	USH 12 & 18 EB $\frac{1}{4}$ MILE WEST OF 1-39		2				1					
S-13-152	12 OF 14	USH 12 & 18 EB AT I-39/90 RAMP						2				32	
S-13-153	13 OF 14	USH 12 & 18 WB AT EXIT TO 1-39 NB						2					
S-13-157	14 OF 14	1-94 WB $\frac{1}{2}$ MILE EAST OF 1-39 NB/1-90 WB						2	1	·	1		
		TOTAL	6	18	34	5	5	18	16	3	8	95	1

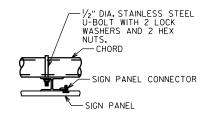
ALL ITEMS ARE CATEGORY 0020

8



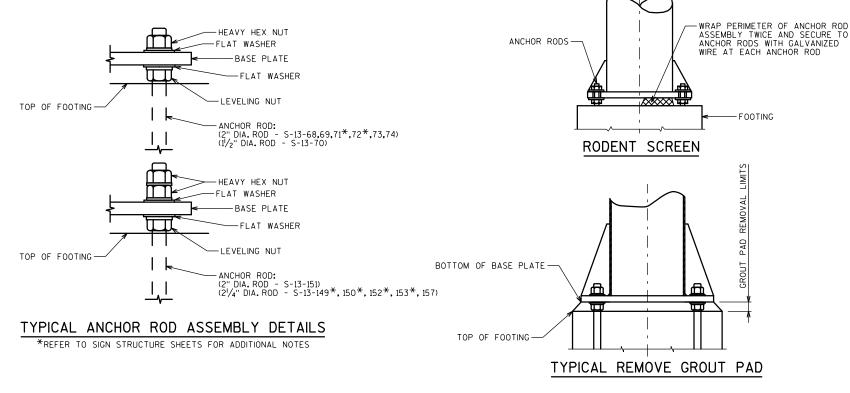
SECTION '0'

HANDHOLE DETAILS (FOR SINGLE BOLT CONNECTION)



SIGN PANEL CONNECTOR DETAIL

(CONNECTORS CONSIST OF POST CLIP, POST CLIP BOLT, WASHER AND NUT. USE CONNECTORS ON EVERY EXTRUDED JOINT. REFER TO SIGN PLATE MANUAL, INCLUDING PLATES A4-6 AND A5-2, FOR ADDITIONAL INFORMATION.)



GENERAL NOTES:

- THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL
- 2. THE ANCHOR RODS, NUTS, LEVELING NUTS AND WASHERS SHALL BE CLEANED AND GALVANIZED IN ACCORDANCE WITH SECTION 641 OF THE WISDOT STANDARD SPECIFICATIONS. THIS ITEM IS PAID FOR UNDER "CLEAN AND PROTECT ANCHOR ROD" UNLESS THE ANCHOR ROD ASSEMBLIES NEED TO BE TENSIONED. IF TENSIONING OF THE ANCHOR ROD ASSEMBLY IS REQUIRED THAN THIS ITEM IS INCLUDED WITH "TENSION ANCHOR ROD". ANY GROUT PAD REMOVAL (IF REQUIRED) MUST BE COMPLETED PRIOR TO THIS WORK.
- 3. THE CONTRACTOR SHALL USE ANTI-SIEZE COMPOUND ON ELECTRICAL HANDHOLE COVER BOLTS AND CONDUIT PLUGS PER SECTION 651.3.1(5) OF THE WISDOT STANDARD
- 4. SIGN BRIDGE IDENTIFICATION PLAQUES SHALL BE LOCATED AND FABRICATED IN ACCORDANCE WITH S.D.D. 12A 4-1.

5. WORK SPECIFIED BASED ON HSI SYSTEM MOST CURRENT INSPECTION REPORT RECOMMENDATIONS AND CONDITION STATES.

S-13-68: DATED 11-04-2011
S-13-70: DATED 12-03-2011
S-13-71: DATED 12-04-2011
S-13-72: DATED 12-10-2011
S-13-73: DATED 12-10-2011
S-13-74: DATED 8-09-2013
S-13-149: DATED 11-17-2011
S-13-150: DATED 11-17-2011 S-13-150: DATED 11-17-2011 S-13-150: DATED 11-17-2011 S-13-151: DATED 11-17-2011 S-13-153: DATED 11-8-2011 S-13-153: DATED 10-29-2011 S-13-157: DATED 12-01-2011

ULTIMATE DESIGN STRESSES:

HIGH STRENGTH BOLTS - A325 _____ fy = 92,000 psi HARDWARE GALVANIZED _____ _____A153 CLASS C

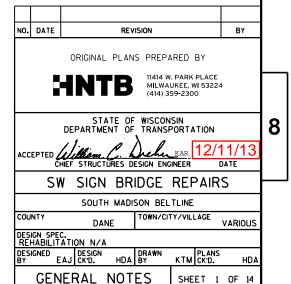


LIST OF DRAWINGS

GENERAL NOTES & QUANTITIES SIGN STRUCTURE S-13-68 LAYOUT SIGN STRUCTURE S-13-69 LAYOUT SIGN STRUCTURE S-13-70 LAYOUT SIGN STRUCTURE S-13-70 LAYOUT SIGN STRUCTURE S-13-71 LAYOUT SIGN STRUCTURE S-13-72 LAYOUT SIGN STRUCTURE S-13-73 LAYOUT SIGN STRUCTURE S-13-74 LAYOUT SIGN STRUCTURE S-13-149 LAYOUT SIGN STRUCTURE S-13-150 LAYOUT SIGN STRUCTURE S-13-151 LAYOUT SIGN STRUCTURE S-13-151 LAYOUT SIGN STRUCTURE S-13-152 LAYOUT SIGN STRUCTURE S-13-153 LAYOUT SIGN STRUCTURE S-13-157 LAYOUT SIGN STRUCTURE S-13-157 LAYOUT SIGN STRUCTURE S-13-157 LAYOUT SIGN STRUCTURE S-13-157 LAYOUT

STRUCTURES DESIGN CONTACTS

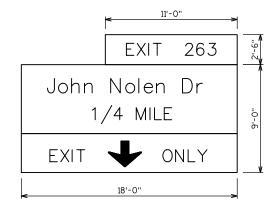
BRIDGE OFFICE: WILLIAM DREHER CONSULTANT: (608) 266-8489 (414) 359-2300 HEATHER ANDERS



SHEET 1 OF 14

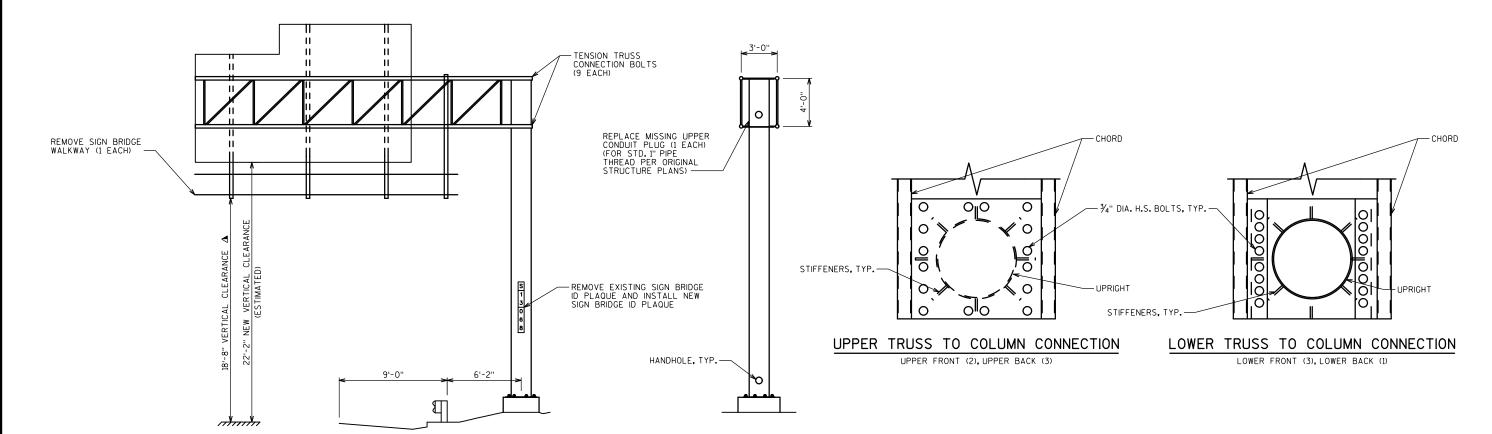
& QUANTITIES

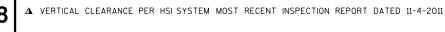
1206-04-62



NOTES

- 1. ALL TRUSS CONNECTION BOLTS ARE 3/4" DIA. PER ORIGINAL STRUCTURE PLANS.
- ALL ANCHOR RODS ARE 2" DIA, PER ORIGINAL STRUCTURE PLANS AND MOST RECENT INSPECTION REPORT DATED 11-04-2011.





S-13-68 ESTIMATED QUANTITIES

ł	ITEM NO.	BID ITEM	UNIT	QUANTITY		
ı	SPV.0060.05	REPLACE MISSING CONDUIT PLUG	EA	1	1	turum
ı	SPV.0060.06	TENSION ANCHOR ROD	EA	2	\leftarrow	→ None Found Loose 3
ı	SPV.0060.07	CLEAN AND PROTECT ANCHOR ROD	EA	6] `	كىيىيىيىنىئ
ı	SPV.0060.08	REMOVE SIGN BRIDGE WALKWAY	EA	1		
ı	SPV.0060.09	REMOVE GROUT PAD	EA	1		
ı	SPV.0060.10	INSTALL RODENT SCREEN	EA	1		m
ı	SPV.0060.13	INSTALL SIGN BRIDGE ID PLAQUE	EA	1]	<i>'</i>
ı	SPV.0060.14	TENSION TRUSS CONNECTION BOLT	EA	9	\leftarrow	→ None Found Loose 3
l						Cumming

ELEVATION

TENSION ANCHOR ROD (2 EACH)
CLEAN AND PROTECT ANCHOR ROD (6 EACH)

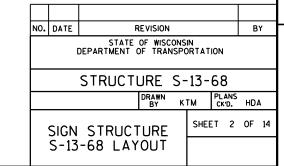
PLOT BY: handers

- REPLACE NUTS AND WASHERS WITH MODERATE TO HEAVY CORROSION. INCIDENTAL TO "TENSION ANCHOR ROD" AND "CLEAN AND PROTECT ANCHOR ROD".

FOUNDATION DETAIL

LOOKING NORTH

REMOVE GROUT PAD (1 EACH) INSTALL RODENT SCREEN (1 EACH)—



STATE PROJECT NUMBER 1206-04-62 11'-0" NOTES **EXIT 262** 1. ALL TRUSS CONNECTION BOLTS ARE $\ensuremath{\mathcal{Y}}_4$ " DIA. PER ORIGINAL STRUCTURE PLANS. 2. ALL ANCHOR RODS ARE 2" DIA. PER ORIGINAL STRUCTURE PLANS AND MOST RECENT INSPECTION REPORT DATED 11-07-2011. Rimrock Rd EXIT ONLY 18'-0" REPLACE SIGN PANEL CONNECTOR, MIDDLE WINDBEAM (1 EACH) -REPLACE SIGN PANEL CONNECTOR, NORTH DELINEATOR (1 EACH) 💥 REPLACE SIGN PANEL CONNECTOR, SOUTH DELINEATOR (1 EACH) TENSION TRUSS CONNECTION BOLTS (17 EACH) - CHORD REPLACE MISSING UPPER CONDUIT PLUG (I EACH) (FOR STD. 1" PIPE THREAD PER ORIGINAL STRUCTURE PLANS) OIIO 0 - ¾" DIA. H.S. BOLTS, TYP. -ا ا STIFFENERS, TYP. -Ŏ. -REMOVE SIGN BRIDGE WALKWAY (1 EACH) 23'-9" NEW VERTICAL CLEARANCE (ESTIMATED) 0 UPRIGHT 0 STIFFENERS, TYP. UPPER TRUSS TO COLUMN CONNECTION LOWER TRUSS TO COLUMN CONNECTION UPPER FRONT (7), UPPER BACK (6) LOWER FRONT (3), LOWER BACK (1) -REMOVE EXISTING SIGN BRIDGE ID PLAQUE AND INSTALL NEW SIGN BRIDGE ID PLAQUE -INSTALL OR TIGHTEN LOWER HANDHOLE COVER 3/8" DIA. BOLT (1 EACH) (FIELD VERIFY BOLT SIZE) HANDHOLE, TYP. **LEGEND** PAID FOR UNDER BID ITEM "INSTALL OR TIGHTEN SIGN PANEL HARDWARE". **ELEVATION** LOOKING SOUTH LOOKING WEST ▲ VERTICAL CLEARANCE PER HSI SYSTEM MOST RECENT INSPECTION REPORT DATED 11-7-2011 REMOVE GROUT PAD (1 EACH) INSTALL RODENT SCREEN (1 EACH) -CLEAN AND PROTECT ANCHOR ROD (8 EACH) 0)00 8 S-13-69 ESTIMATED QUANTITIES INSTALL LARGER WASHER.INCIDENTAL TO BID ITEM "CLEAN AND PROTECT ANCHOR ROD". (FIELD VERIFY SIZE OF LARGER WASHERS) / ō \ NO. DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

8

ΙT	EM NO.	BID ITEM	UNIT	QUANTITY
SPV.0	060.05	REPLACE MISSING CONDUIT PLUG	EA	1
SPV.0	060.07	CLEAN AND PROTECT ANCHOR ROD	EA	8
SPV.0	060.08	REMOVE SIGN BRIDGE WALKWAY	EA	1
SPV.0	060.09	REMOVE GROUT PAD	EA	1
SPV.0	060.10	INSTALL RODENT SCREEN	EA	1
SPV.0	060.11	INSTALL OR TIGHTEN SIGN PANEL HARDWARE	EA	3
SPV.0	060.12	INSTALL OR TIGHTEN HANDHOLE COVER BOLT	EA	1
SPV.0	060.13	INSTALL SIGN BRIDGE ID PLAQUE	EA	1
SPV.0	060.14	TENSION TRUSS CONNECTION BOLT	EA	17

None Found Loose

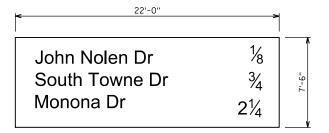
None Found Loose

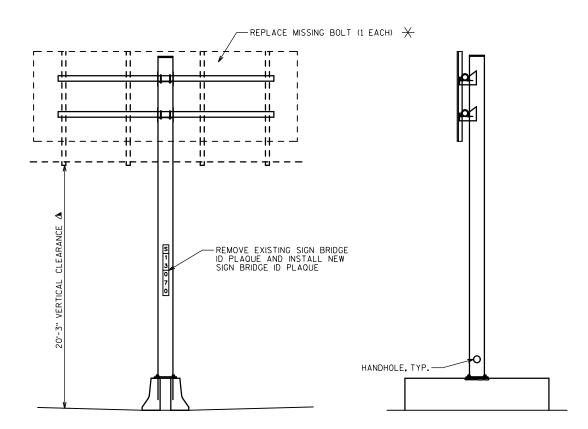
FOUNDATION DETAIL

STRUCTURE S-13-69 DRAWN KTM PLANS SHEET 3 OF 14 SIGN STRUCTURE S-13-69 LAYOUT

PLOT BY: handers

1206-04-62



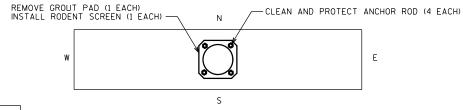


LOOKING NORTH

LEGEND

- Y PAID FOR UNDER BID ITEM "INSTALL OR TIGHTEN SIGN PANEL HARDWARE".
- ▲ VERTICAL CLEARANCE PER HSI SYSTEM MOST RECENT INSPECTION REPORT DATED 12-3-2011

ELEVATION LOOKING EAST



S-13-70 ESTIMATED QUANTITIES

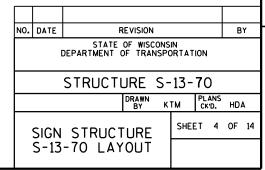
ITEM NO.	BID ITEM	UNIT	QUANTITY	
SPV.0060.07	CLEAN AND PROTECT ANCHOR ROD	EA	4	1
SPV.0060.09	REMOVE GROUT PAD	EA	1	1
SPV.0060.10	INSTALL RODENT SCREEN	EA	1	
SPV.0060.11	INSTALL OR TIGHTEN SIGN PANEL HARDWARE	EΑ	1	襘
SPV.0060.13	INSTALL SIGN BRIDGE ID PLAQUE	EA	1	

FOUNDATION DETAIL

None Found Loose

NOTES

1. ALL ANCHOR RODS ARE $1^1\!\!/_2$ " DIA. PER ORIGINAL STRUCTURE PLANS AND MOST RECENT INSPECTION REPORT DATED 12-03-2011.



8

PLOT BY: handers

STATE PROJECT NUMBER 11'-0" 1206-04-62 **EXIT 262** Rimrock Rd 1/8 MILE NOTES ALL TRUSS CONNECTION BOLTS ARE $\sp{3/4}"$ DIA. PER ORIGINAL STRUCTURE PLANS. ALL ANCHOR RODS ARE 2" DIA.PER ORIGINAL STRUCTURE PLANS, BUT NOTED AS 1¾" DIA.PER MOST RECENT INSPECTION REPORT DATED 12-04-2011. FIELD VERIFY SIZE OF ANCHOR RODS. REPLACE SIGN PANEL CONNECTOR, NORTH WINDBEAM (1 EACH) 💥 — TENSION TRUSS
CONNECTION BOLTS REPLACE MISSING UPPER CONDUIT PLUG (1 EACH) (FOR STD. 1" PIPE THREAD PER ORIGINAL STRUCTURE PLANS) 0 0 3/4" DIA. H.S. BOLTS, TYP. REMOVE SIGN BRIDGE WALKWAY (1 EACH) 0 .70 o STIFFENERS, TYP.-0 UPRIGHT **UPRIGHT** STIFFENERS, TYP. LOWER TRUSS TO COLUMN CONNECTION UPPER TRUSS TO COLUMN CONNECTION UPPER FRONT (O), UPPER BACK (1) LOWER FRONT (3), LOWER BACK (3) -INSTALL SIGN BRIDGE ID INSTALL OR TIGHTEN LOWER HANDHOLE
COVER 3/8" DIA. BOLT
(2 EACH)
(FIELD VERIFY BOLT
SIZE) 7'-0" HANDHOLE, TYP. -LEGEND PAID FOR UNDER BID ITEM "INSTALL OR TIGHTEN SIGN PANEL HARDWARE". LOOKING SOUTH **ELEVATION** ▲ VERTICAL CLEARANCE PER HSI SYSTEM MOST RECENT INSPECTION REPORT LOOKING WEST 8 DATED 12-4-2011 -CLEAN AND PROTECT ANCHOR ROD (8 EACH) S-13-71 ESTIMATED QUANTITIES ITEM NO. BID ITEM UNIT QUANTITY NO. DATE REVISION BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION SPV.0060.05 REPLACE MISSING CONDUIT PLUG EΑ CLEAN AND PROTECT ANCHOR ROD SPV.0060.07 EΑ SPV.0060.08 REMOVE SIGN BRIDGE WALKWAY EΑ SPV.0060.09 REMOVE GROUT PAD EΑ STRUCTURE S-13-71 INSTALL RODENT SCREEN SPV-0060-10 EΑ FOUNDATION DETAIL DRAWN KTM PLANS None Found Loose SPV.0060.11 INSTALL OR TIGHTEN SIGN PANEL HARDWARE

INSTALL SIGN BRIDGE ID PLAQUE

TENSION TRUSS CONNECTION BOL

INSTALL OR TIGHTEN HANDHOLE COVER BOLT

EΑ

EΑ

EΑ

EΑ

8

SPV.0060.12

SPV.0060.13

SPV.0060.14

m

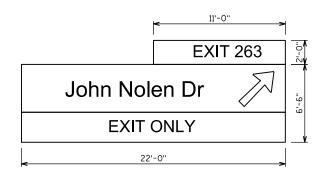
None Found Loose

SIGN STRUCTURE

S-13-71 LAYOUT

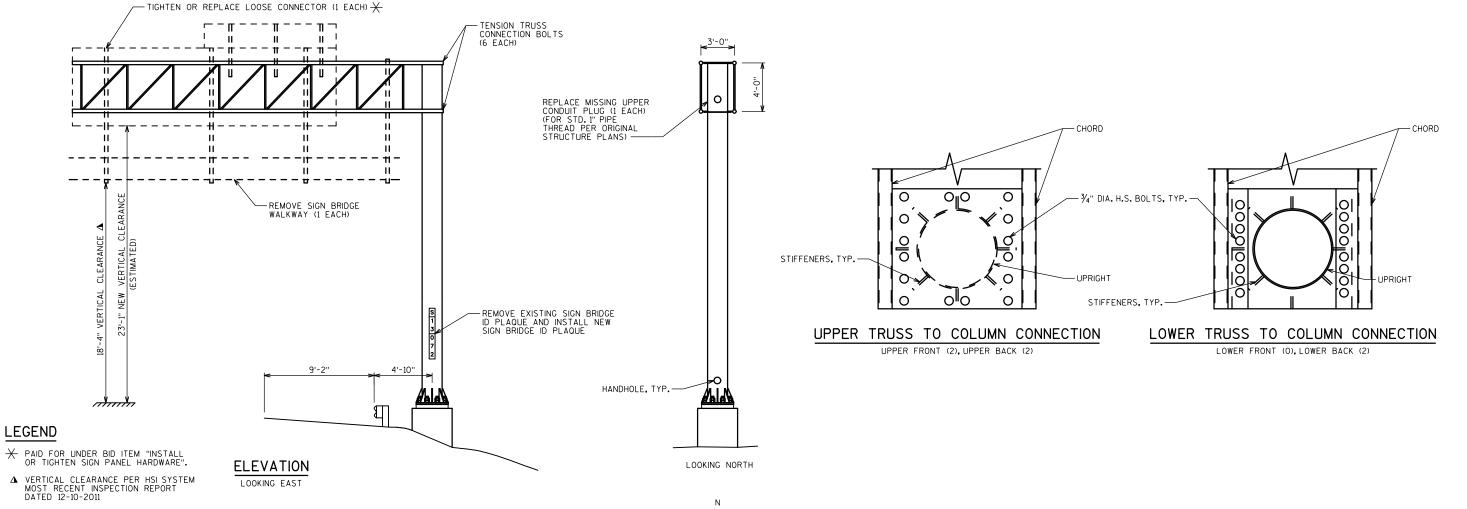
SHEET 5 OF 14

1206-04-62



NOTES

- 1. ALL TRUSS CONNECTION BOLTS ARE $\frac{7}{4}$ " DIA. PER ORIGINAL STRUCTURE PLANS.
- 2. ALL ANCHOR RODS ARE 2" DIA.PER ORIGINAL STRUCTURE PLANS, BUT NOTED AS 11/4" DIA.PER MOST RECENT INSPECTION REPORT DATED 12-10-2011. FIELD VERIFY SIZE OF ANCHOR RODS.



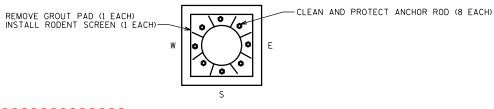
S-13-72 ESTIMATED QUANTITIES

8

ITEM NO.	BID ITEM	UNIT	QUANTITY
SPV.0060.05	REPLACE MISSING CONDUIT PLUG	EA	1
SPV.0060.07	CLEAN AND PROTECT ANCHOR ROD	EA	8
SPV.0060.08	REMOVE SIGN BRIDGE WALKWAY	EA	1
SPV.0060.09	REMOVE GROUT PAD	EA	1
SPV.0060.10	INSTALL RODENT SCREEN	EA	1
SPV.0060.11	INSTALL OR TIGHTEN SIGN PANEL HARDWARE	EA	1
SPV.0060.13	INSTALL SIGN BRIDGE ID PLAQUE	EA	1
SPV.0060.14	TENSION TRUSS CONNECTION BOLT	EA	6

None Found Loose

None Found Loose



PLOT BY: handers

FOUNDATION DETAIL

NO. DATE REVISION BY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

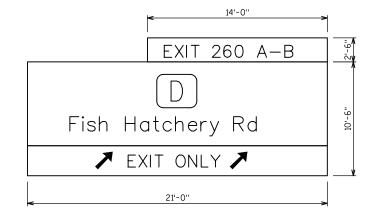
STRUCTURE S-13-72

DRAWN KTM PLANS CKD. HDA

SIGN STRUCTURE
S-13-72 LAYOUT

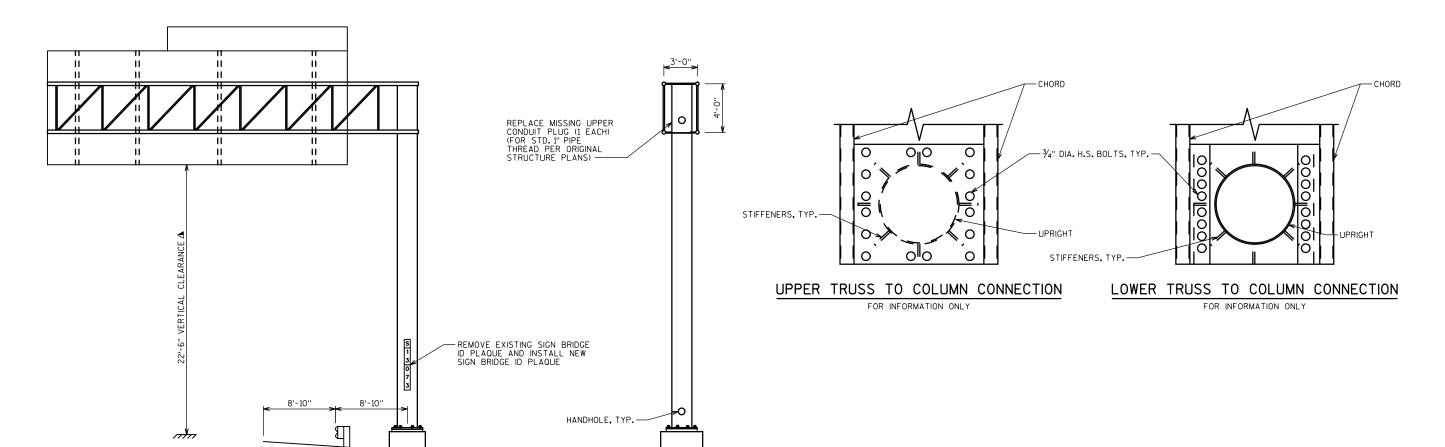
SHEET 6 OF 14

1206-04-62



NOTES

- 1. ALL TRUSS CONNECTION BOLTS ARE $\frac{3}{4}$ DIA. PER ORIGINAL STRUCTURE PLANS.
- ALL ANCHOR RODS ARE 2" DIA. PER ORIGINAL STRUCTURE PLANS AND MOST RECENT INSPECTION REPORT DATED 7-22-2013.



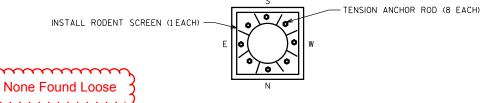
<u>LEGEND</u>

8

▲ VERTICAL CLEARANCE PER HSI SYSTEM MOST RECENT INSPECTION REPORT DATED 7-22-2013 ELEVATION LOOKING WEST

S-13-73 ESTIMATED QUANTITIES

BID ITEM	UNIT	QUANTITY
REPLACE MISSING CONDUIT PLUG	EA	1
TENSION ANCHOR ROD	EA	8
INSTALL RODENT SCREEN	EΑ	1
INSTALL SIGN BRIDGE ID PLAQUE	EA	1
-	REPLACE MISSING CONDUIT PLUG TENSION ANCHOR ROD INSTALL RODENT SCREEN	REPLACE MISSING CONDUIT PLUG EA TENSION ANCHOR ROD EA INSTALL RODENT SCREEN EA



LOOKING SOUTH

FOUNDATION DETAIL

NO. DATE REVISION BY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STRUCTURE S-13-73

DRAWN KTM PLANS CKD. HDA

SHEET 7 OF 14

8

SIGN STRUCTURE S-13-73 LAYOUT

PLOT BY: handers

