

LAX JANUARY 2025

PROJECT ID: 7575-01-65

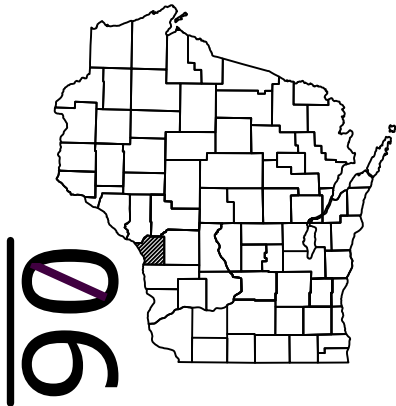
WITH: 3700-10-64, 7575-01-76

COUNTY: LA CROSSE

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 and Profile
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 = 38



DESIGN DESIGNATION 7575-01-35

A.A.D.T.	2026	=	42,500
A.A.D.T.	2046	=	42,500
D.H.V.	2046	=	2046
D.D.		=	55/45
T.		=	4.7%
DESIGN SPEED		=	45
ESALS		=	3,300,000

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

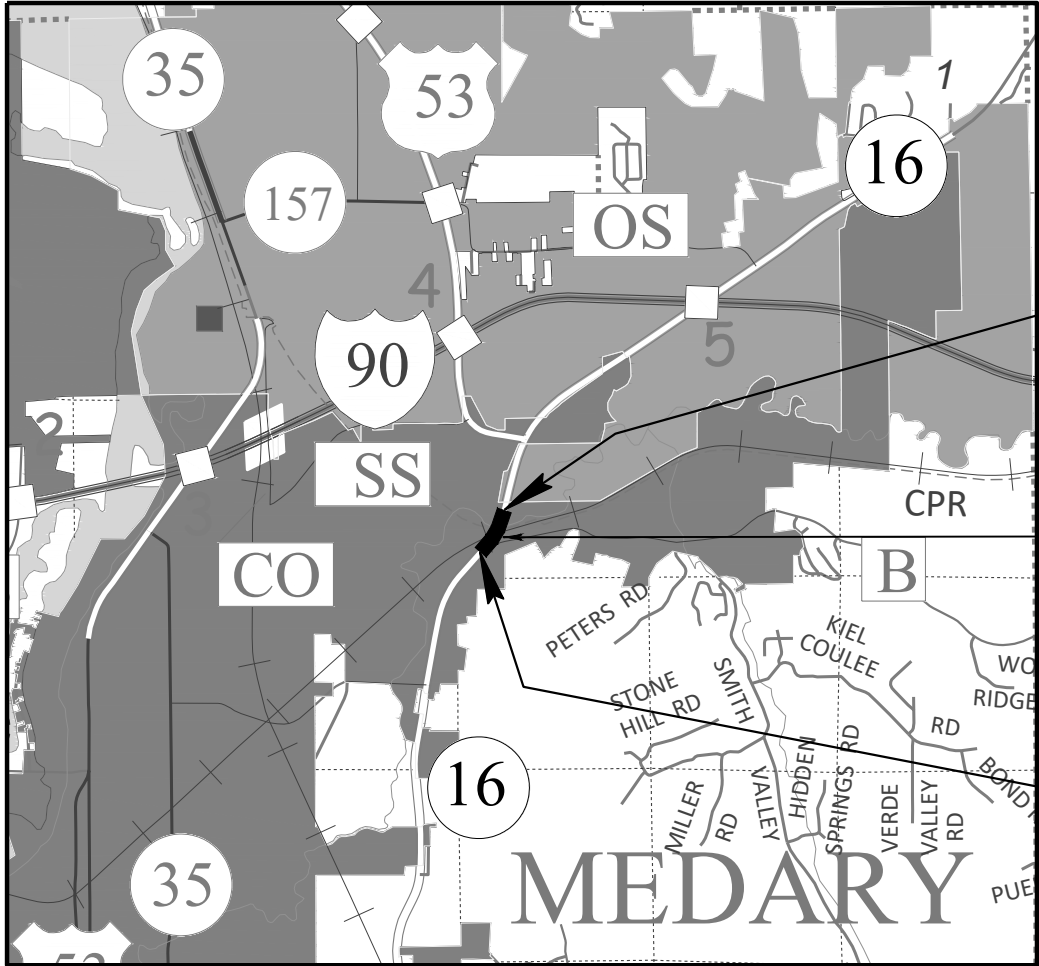
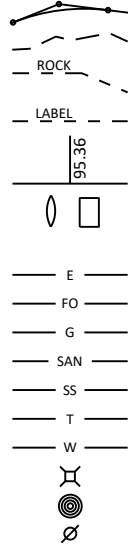
TELEPHONE

WATER

UTILITY PEDESTAL

POWER POLE

TELEPHONE POLE



LAYOUT

SCALE 0 1.0 MI

TOTAL NET LENGTH OF CENTERLINE = 0.161 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), LA CROSSE COUNTY NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 18.

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

LA CROSSE - SPARTA

MEDARY OVERPASS B-32-111, B-32-115


STH 16

LA CROSSE COUNTY

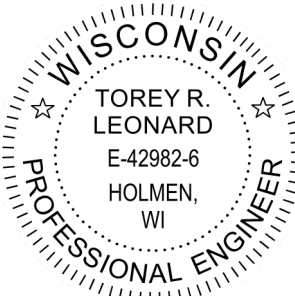
STATE PROJECT NUMBER
7575-01-65

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
7575-01-65	WISC 2025154	1


ORIGINAL PLANS PREPARED BY

 Short Elliott Hendrickson Inc.
329 Jay Street, Suite, 301
La Crosse, WI 54601-4007
608.782.3161 main | 888.908.8166 fax
www.sehinc.com

Building a Better World for All of Us



7/18/2024 (Date)


 (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	SW REGION
Designer	SEH
Project Manager	JOHN BAINTER
Regional Examiner	SW REGION
Regional Supervisor	JOHN BAINTER

APPROVED FOR THE DEPARTMENT

DATE: 7/18/2024  (Signature)

E

PLOT TIME: 11:25:20 AM

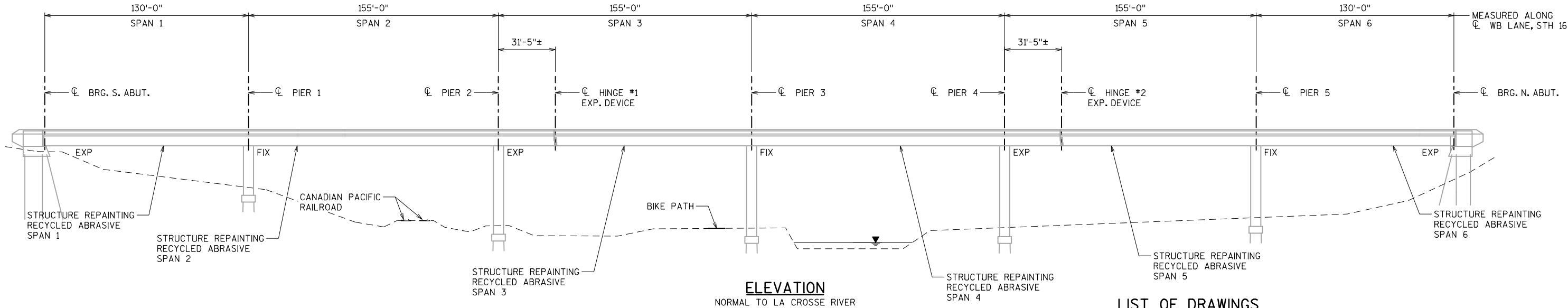
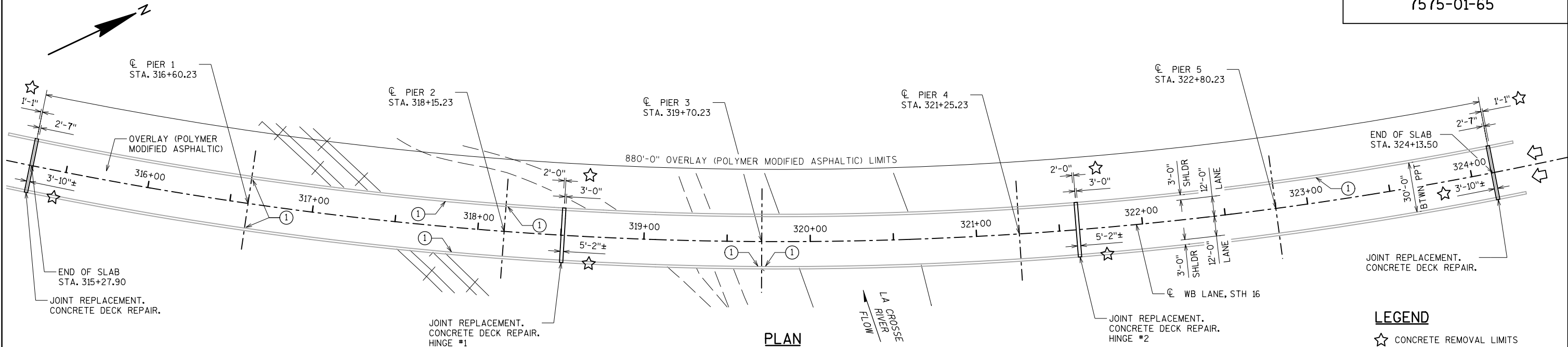
PLOT DATE: 8/1/2024

FILE NAME : X:\UZ\W\ITS\W\17883\5-f\ind-dsgn\51-drawings\20-Struct\B-32-111\Sheet\B32111.dgn

8

STATE PROJECT NUMBER

7575-01-65



DESIGN DATA

LIVE LOAD:
DESIGN LOADING = HS20
INVENTORY RATING = HS20
OPERATING RATING = HS35
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS

MATERIAL PROPERTIES:
CONCRETE MASONRY - DECK & JOINT REPAIR $f'_c = 4,000$ PSI
- ALL OTHER $f'_c = 3,500$ PSI

HIGH STRENGTH BAR STEEL REINFORCEMENT
AASHTO GRADE 60 $f_y = 60,000$ PSI

TRAFFIC DATA

ADT (2026) = 42,500 (E.B. & W.B. TOTAL)
ADT (2046) = 42,500 (E.B. & W.B. TOTAL)
DESIGN SPEED = 45 MPH

STRUCTURE REPAINTING RECYCLED ABRASIVE *						
GIRDER	SPAN					
	1	2	3	4	5	6
G1	232				780	
G2	214				780	
G3	214			553	780	
G4	404	190	190	816	780	20

* AREA (SFT) FOR INFORMATION ONLY

- ① CONCRETE SURFACE REPAIR, BRIDGE RAILING
AS DIRECTED BY THE FIELD ENGINEER.
SAW CUT OR HAND CHIP LOOSE CONCRETE

LIST OF DRAWINGS

- DECK REPAIR & PAINTING PLAN
- NOTES AND QUANTITIES
- BEARING DETAILS
- NORTH ABUTMENT REPAIR DETAILS
- JOINT REMOVAL DETAILS
- JOINT REPAIR DETAILS
- EXPANSION DEVICE
- COVER PLATE DETAILS
- INFRARED THERMOGRAPHIC SURVEY RESULTS



SEH CONTACT: CHRIS BLUM, PE, 608.620.6192
WISDOT BRIDGE OFFICE CONTACT: AARON BONK, PE, 608.261.0261

NO.	DATE	REVISION	BY
SHORT ELLIOTT HENDRICKSON INC.			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED		SDR	08/05/24
CHIEF STRUCTURES DESIGN ENGINEER DATE			
STRUCTURE B-32-111			
STH 16 WB OVER LA CROSSE RIVER & CP RR			
COUNTY	LA CROSSE	TOWN/VILLAGE	MEDARY
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY	NCK	DESIGN CK'D.	DKW
DRAWN BY	RAD	PLANS CK'D.	NCK
DECK REPAIR & PAINTING PLAN			SHEET 1 OF 11

8

PLOT TIME: 11/25/21 AM

PLOT DATE: 8/1/2024

FILE NAME : X:\UZ\W\WITS\W\17883\5-f\ind-dsgn\51-drawings\20-Struct\B-32-III\Sheet\B32IIQ2.dgn

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS AND INSPECTION REPORTS. EXISTING BRIDGE PLANS AVAILABLE AT WISDOT.

STATIONING MAY VARY BASED ON EXACT LOCATION OF BRIDGE TO PROPOSED ALIGNMENT.

CONTRACTOR TO VERIFY EXISTING UTILITY LOCATIONS.

ANY EXCAVATION REQUIRED TO COMPLETE THE DECK OVERLAY AT THE ABUTMENTS, TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "HMA OVERLAY POLYMER-MODIFIED".

PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2, CONCRETE SURFACE REPAIR AND FULL-DEPTH DECK REPAIR AS DETERMINED, LOCATED, MARKED AND MEASURED BY THE FIELD ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY DECK REPAIR".

BOTTOM OF THE EXISTING DECK WILL BE INSPECTED FOR AREAS OF FULL-DEPTH DECK REPAIR PRIOR TO DECK PREPARATION OPERATIONS.

BOTTOM OF THE EXISTING DECK IS TO BE INSPECTED FOR AREAS OF DISTRESS AFTER COMPLETION OF THE DECK PREPARATION AND PRIOR TO OVERLAYING THE BRIDGE.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1-INCH DEEP SAW CUT, INCLUDING DECK PREPARATION AREAS.

THESE STRUCTURE PLANS ARE ONLY THE STRUCTURE REPAIR WORK. ANY ADDITIONAL REMOVAL REQUIRED, OUTSIDE OF THE LIMITS SHOWN IN THESE PLANS MUST BE COORDINATED WITH THE FIELD ENGINEER. FIELD ENGINEER SHOULD BE CONTACTED FOR APPROVAL OF ADDITIONAL REMOVAL.

THE PLAN QUANTITY FOR THE BID ITEM "HMA OVERLAY POLYMER-MODIFIED" IS BASED ON THE AVERAGE OVERLAY THICKNESS.

APPLY BRIDGE SEAT PROTECTION, AS PER SECTION 502.3.2 OF THE STANDARD SPECIFICATIONS, TO THE TOP SURFACES OF ALL ABUTMENTS AND BELOW EXPANSION DEVICES.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM POLYMER MODIFIED ASPHALTIC OVERLAY THICKNESS OF 2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS 2½". IF EXPECTED OVERLAY THICKNESS IS EXCEEDED BY MORE THAN ½", CONTACT THE STRUCTURES DESIGN SECTION.

APPLY "PIGMENTED SURFACE SEALER RESEAL" TO THE EXISTING CONCRETE PARAPETS PER THE STANDARD SPECIFICATIONS AND AS SHOWN IN THIS PLAN SET.

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

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

THE FIRST DIGIT OF A THREE DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

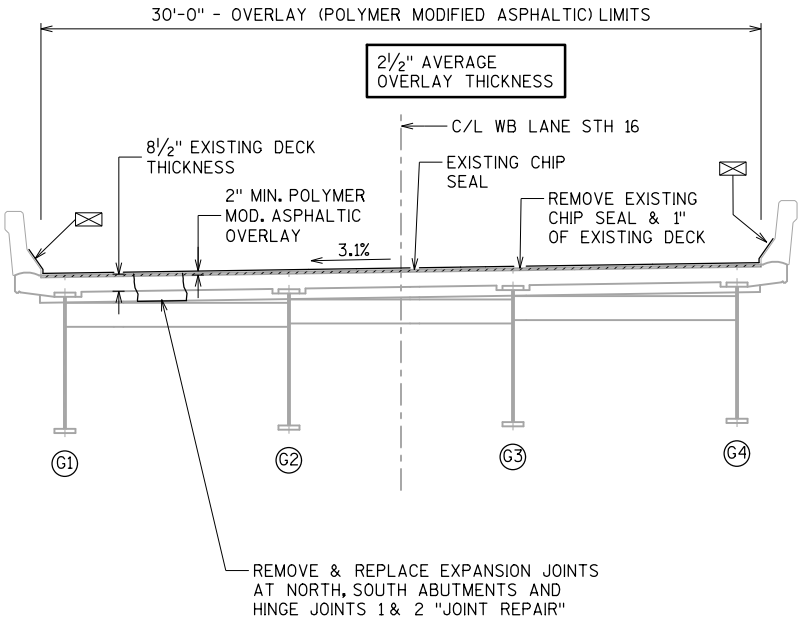
BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

SEE PROJECT ID 7575-01-76 FOR TRAFFIC STAGING. COORDINATE THESE STRUCTURE PLANS WITH THE ROADWAY STAGING.

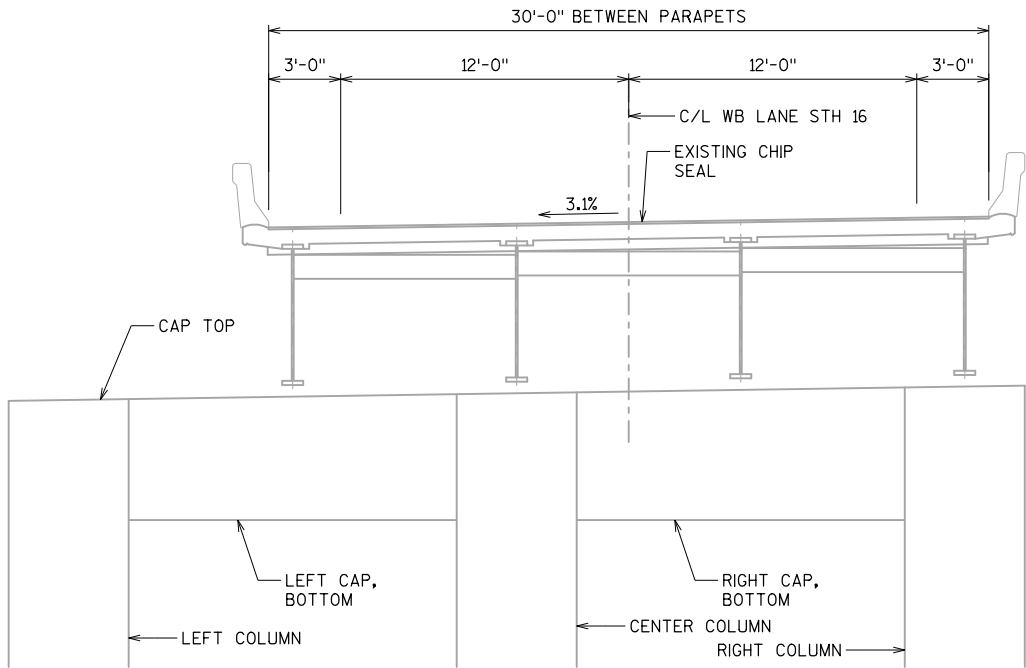
REMOVING 1" OF EXISTING DECK IS INCLUDED IN THE BID ITEM "CLEANING DECKS".

A MAXIMUM OF 1½" OF THE EXISTING DECK MAY BE REMOVED.

PAINT ALL GIRDERS, DIAPHRAGMS, HARDWARE, HINGES AND BEARINGS INCLUDED IN LOCATIONS DESCRIBED BELOW. THE COLOR SHALL BE BROWN, (AMS STANDARD COLOR NO. 20059) OR SIMILAR COLOR APPROVED BY THE ENGINEER.



CROSS SECTION THRU ROADWAY
LOOKING NORTH - MID SPAN



CROSS SECTION THRU ROADWAY
LOOKING NORTH - AT PIER

STATE PROJECT NUMBER

7575-01-65

TOTAL ESTIMATED QUANTITIES - B-32-111

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
203.0330	DEBRIS CONTAINMENT B-32-111	EACH	1
203.0335	DEBRIS CONTAINMENT OVER WATERWAY B-32-111	EACH	1
502.3101	EXPANSION DEVICE	LF	120
502.3205	PIGMENTED SURFACE SEALER RESEAL	SY	711
502.4205	ADHESIVE ANCHORS NO 5 BAR	EACH	64
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	4530
506.6000	BEARING ASSEMBLIES EXPANSION B-32-111	EACH	7
506.7050.S	REMOVING BEARING B-32-111	EACH	7
509.0301	PREPARATION DECKS TYPE 1	SY	70
509.0302	PREPARATION DECKS TYPE 2	SY	45
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	245
509.0500	CLEANING DECKS	SY	2950
509.1000	JOINT REPAIR	SY	60
509.1500	CONCRETE SURFACE REPAIR	SF	25
509.2000	FULL-DEPTH DECK REPAIR	SY	20
509.2100.S	CONCRETE MASONRY DECK REPAIR	CY	41
509.3500.S	HMA OVERLAY POLYMER-MODIFIED	TON	410
517.1801.S	STRUCTURE REPAINTING RECYCLED ABRASIVE B-32-111	EACH	1
517.4501.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-32-111	EACH	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	1

QUANTITIES NOTES

- ① CONCRETE FOR:
* PREPARATION DECKS TYPE 1 & 2, *FULL-DEPTH DECK REPAIR, AND JOINT REPAIR.
- ② PERTAINS TO DECK.
- ③ AS LOCATED BY FIELD ENGINEER.
- * THESE QUANTITY TOTALS ARE AN ESTIMATE AND ARE INCLUDED IN BID ITEM "CONCRETE MASONRY DECK REPAIR".
- PREPARATION DECKS TYPE 1 = 4 CY
-PREPARATION DECKS TYPE 2 = 5 CY
-FULL-DEPTH DECK REPAIR = 5 CY
- ④ DEBRIS CONTAINMENT WILL ONLY BE PAID FOR LOCATION OVER THE WATER.
- ⑤ SHALL INCLUDE PAYMENT FOR CONTAINMENT OVER THE RAILROAD

LEGEND

☒ COVER PLATES REQUIRED EACH PARAPET JOINT REPAIR LOCATIONS

REPAINTING LOCATIONS

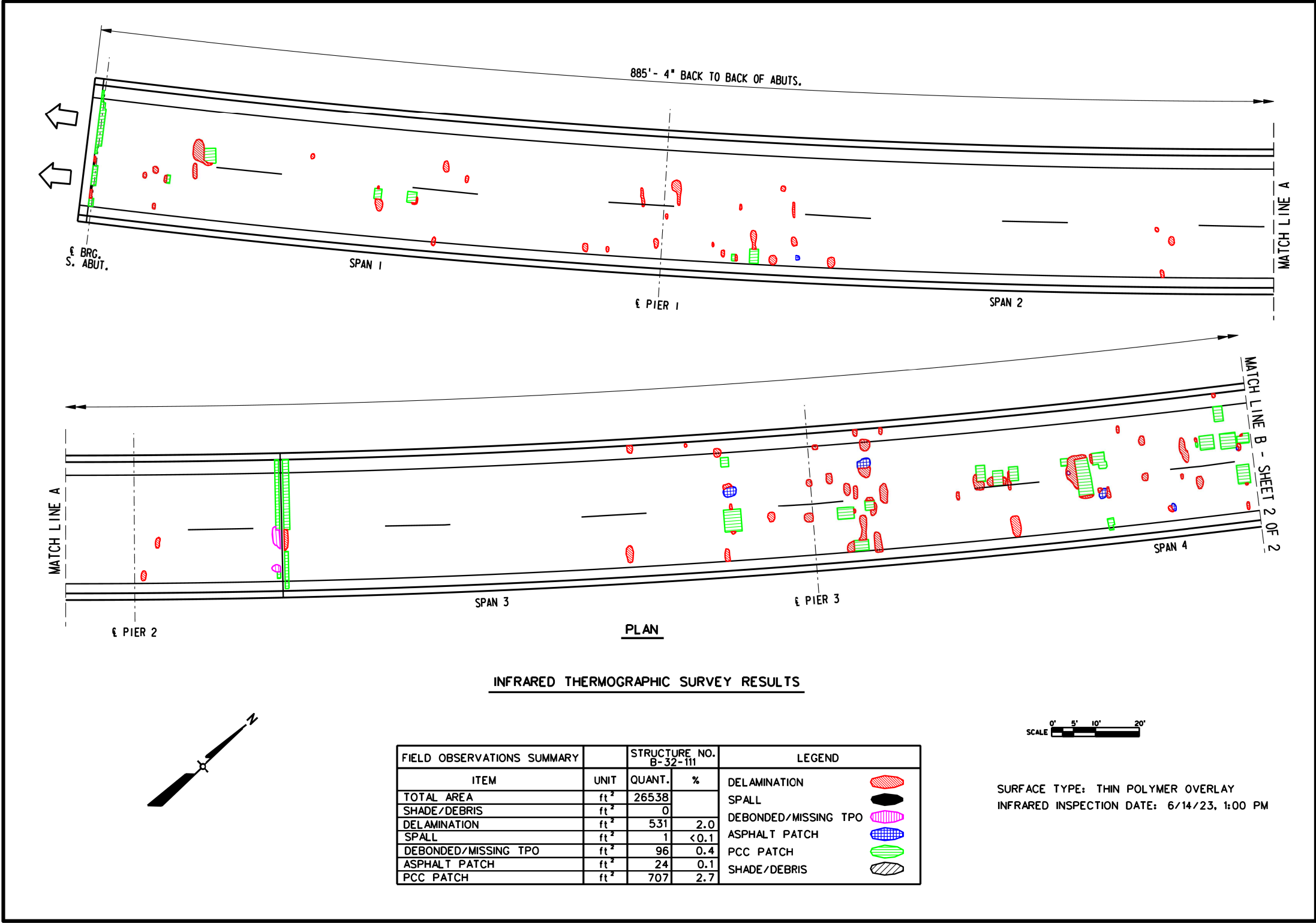
(FOR INFORMATION ONLY)

SPAN 1 ALL GIRDERS 12' FROM SOUTH ABUTMENT
G1 - BOT FLANGE SPLICE PLATE TO PIER
G4 - SPLICE PLATES
SPAN 2 G4 - SPLICE PLATES
SPAN 3 G4 - SPLICE PLATE
SPAN 4 G3 - BOT. FLANGE 50% GIRDER LENGTH
G4 - BOT. FLANGE 80% OF GIRDER LENGTH
SPAN 5 ALL GIRDERS BOT FLANGE
SPAN 6 G4 - BOT. FLANGE AT SPLICE PLATE AND AS LOCATED BY FIELD ENGINEER

SCOPE OF WORK

1. PLACE OVERLAY (POLYMER MODIFIED ASPHALTIC).
2. REPLACE EXISTING EXPANSION DEVICES
3. REPLACE EXPANSION BEARING ASSEMBLIES
4. REPAINT PORTIONS OF STEEL GIRDERS
5. LIMITED CONCRETE REPAIRS

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-32-111			
	DRAWN BY	RAD	PLANS CK'D. NCK
NOTES AND QUANTITIES		SHEET 2 OF 11	



FIELD OBSERVATIONS SUMMARY				STRUCTURE NO. B-32-111		LEGEND	
ITEM	UNIT	QUANT.	%				
TOTAL AREA	ft ²	26538				DELAMINATION	
SHADE/DEBRIS	ft ²	0				SPALL	
DELAMINATION	ft ²	531	2.0			DEBONDED/MISSING TPO	
SPALL	ft ²	1	<0.1			ASPHALT PATCH	
DEBONDED/MISSING TPO	ft ²	96	0.4			PCC PATCH	
ASPHALT PATCH	ft ²	24	0.1			SHADE/DEBRIS	
PCC PATCH	ft ²	707	2.7				

SCALE 0' 5' 10' 20'

SURFACE TYPE: THIN POLYMER OVERLAY
INFRARED INSPECTION DATE: 6/14/23, 1:00 PM

DATA COL TT/TG

ANALYSIS DS

CADD TG

CHECKED BS

Copyright © 2024 AECOM

NO

REV

DATE

INFRARED THERMOGRAPHIC INVESTIGATION OF
STH 16 WB OVER CMSTP&P RR
STRUCTURE NO. B-32-111

PREPARED FOR
WISCONSIN DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURES

DATE 2/22/24

PROJECT NO 60709894

FILENAME B-32-111-IR.DGN

SHEET NO 1 OF 2

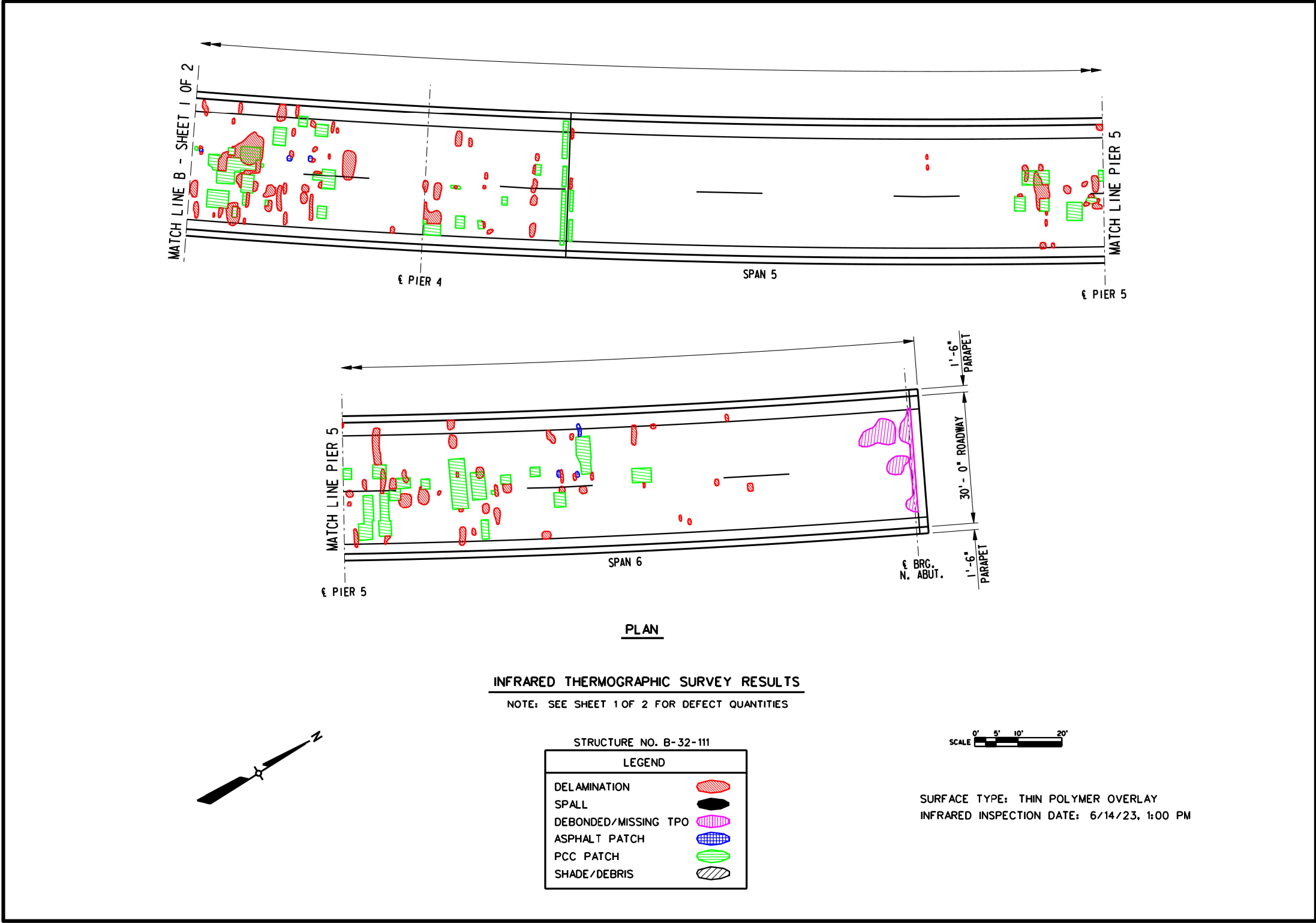
DRAWING NO

FOR REFERENCE

STATE PROJECT NUMBER

7575-01-65

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-32-111			
DRAWN BY		RAD	PLANS CK'D. NCK
INFRARED THERMOGRAPHIC SURVEY RESULTS		SHEET 10 OF 11	



INFRARED THERMOGRAPHIC INVESTIGATION OF
STH 16 WB OVER CMST&P RR
STRUCTURE NO. B-32-111

PREPARED FOR
WISCONSIN DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURES

DATE
2/22/24

PROJECT NO
60709894

FILENAME
B-32-111-IR.DGN

SHEET NO
2 OF 2

DRAWING NO

DATA COL TT/TG
ANALYSIS DS
CADD TG
CHECKED BS
Copyright ©
AECOM All Rights Reserved

NO

REVISIONS

DATE

CHK

AECOM

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-32-111			
DRAWN BY		RAD	PLANS CK'D. NCK
INFRARED THERMOGRAPHIC SURVEY RESULTS		SHEET 11 OF 11	

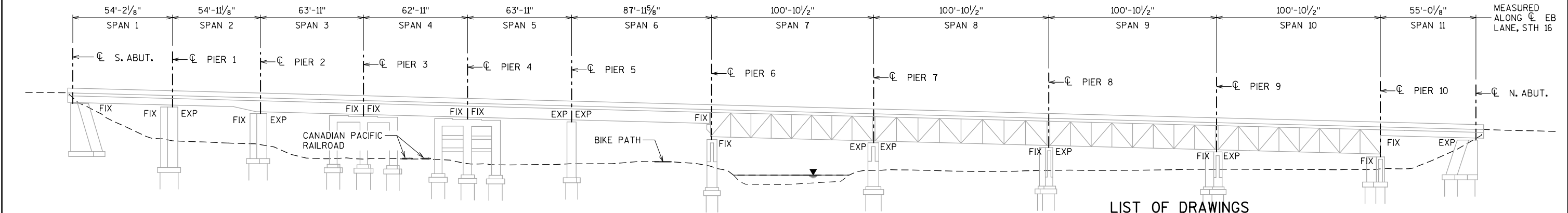
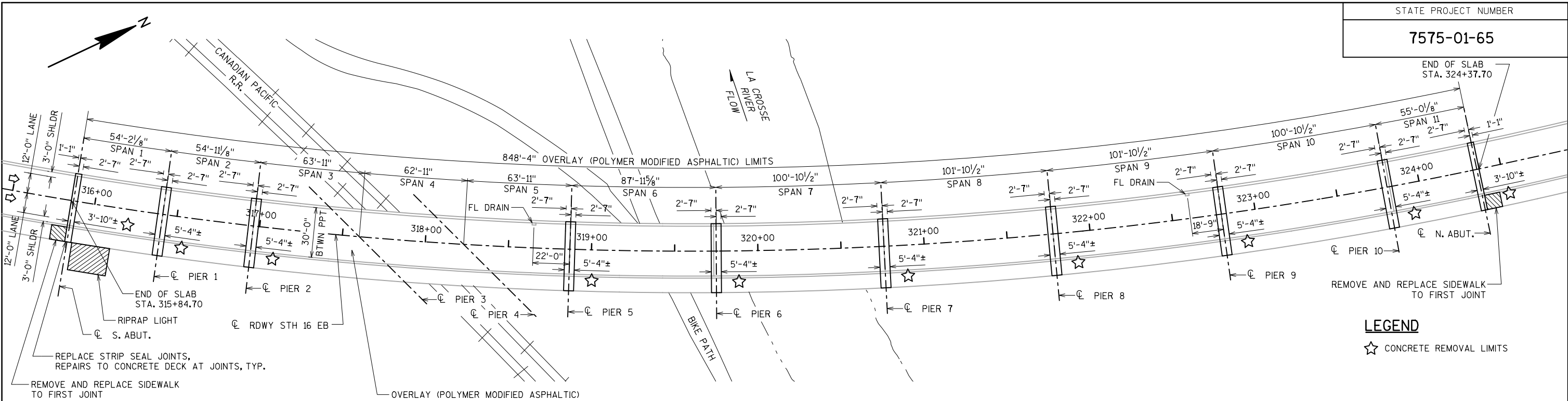
FOR REFERENCE

PLOT TIME: 12:34:36 PM

PLOT DATE: 8/1/2024

FILE NAME : X:\UZ\W\WITS\W\17883\5-f\ind-dsgn\51-drawings\20-Struct\B-32-115\Sheet\B32115gl.dgn

8



DESIGN DATA

LIVE LOAD:
DESIGN LOADING = HS 20
INVENTORY RATING = HS 12
OPERATING RATING = HS 20
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 190 KIPS

MATERIAL PROPERTIES:

CONCRETE MASONRY - DECK & JOINT REPAIR $f'_c = 4,000$ PSI
- ALL OTHER $f'_c = 3,500$ PSI

HIGH STRENGTH BAR STEEL REINFORCEMENT
AASHTO GRADE 60 $f_y = 60,000$ PSI

STRUCTURAL CARBON STEEL
(ASTM A709 GRADE 36 OR A36) $f_y = 36,000$ PSI

TRAFFIC DATA

ADT (2026) = 42,500 (E.B. & W.B. TOTAL)
ADT (2046) = 42,500 (E.B. & W.B. TOTAL)
DESIGN SPEED = 45 MPH

LIST OF DRAWINGS

- 1 DECK REPAIR
- 2 NOTES AND QUANTITIES
- 3 SPOT CLEANING AND PAINTING
- 4-5 GUSSET PLATE REPAIR
- 6 MISCELLANEOUS STEEL REPAIR
- 7-11 BEARING DETAILS
- 12-16 SUBSTRUCTURE REPAIR DETAILS
- 17 JOINT REMOVALS
- 18-19 JOINT REPAIR DETAILS
- 20 EXPANSION DEVICE
- 21 COVER PLATE DETAILS
- 22-23 INFRARED THERMOGRAPHIC SURVEY RESULTS



SEH CONTACT: CHRIS BLUM, PE, 608.620.6192
WISDOT BRIDGE OFFICE CONTACT: AARON BONK, PE, 608.261.0261

STATE PROJECT NUMBER

7575-01-65

LEGEND

☆ CONCRETE REMOVAL LIMITS

NO.	DATE	REVISION	BY
 SHORT ELLIOTT HENDRICKSON INC.			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED		SDR 08/05/24	DATE
CHIEF STRUCTURES DESIGN ENGINEER			
STRUCTURE B-32-115			
STH 16 EB OVER LA CROSSE RIVER & CP RR			
COUNTY	LA CROSSE	TOWN/VILLAGE	MEDARY
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY	NCK	DESIGN CK'D.	DKW
DRAWN BY	RAD	PLANS CK'D.	NCK
DECK REPAIR			SHEET 1 OF 23

8

PLOT TIME: 4:57:00PM

PLOT DATE: 8/1/2024

FILE NAME : X:\UZ\W\WITS\W\71883\5-f\ind-dsgn\51-drawings\20-Struct\B-32-115\Sheet\B3215Bq.dgn

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS AND INSPECTION REPORTS. EXISTING BRIDGE PLANS AVAILABLE AT WISDOT.

STATIONING MAY VARY BASED ON EXACT LOCATION OF BRIDGE TO PROPOSED ALIGNMENT.

CONTRACTOR TO VERIFY EXISTING UTILITY LOCATIONS.

ANY EXCAVATION REQUIRED TO COMPLETE THE DECK OVERLAY AT THE ABUTMENTS, TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "HMA OVERLAY POLYMER-MODIFIED".

PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2, CONCRETE SURFACE REPAIR AND FULL-DEPTH DECK REPAIR AS DETERMINED, LOCATED, MARKED AND MEASURED BY THE FIELD ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY DECK REPAIR".

BOTTOM OF THE EXISTING DECK WILL BE INSPECTED FOR AREAS OF FULL-DEPTH DECK REPAIR PRIOR TO DECK PREPARATION OPERATIONS.

BOTTOM OF THE EXISTING DECK IS TO BE INSPECTED FOR AREAS OF DISTRESS AFTER COMPLETION OF THE DECK PREPARATION AND PRIOR TO OVERLAYING THE BRIDGE.

REMOVING 1" OF EXISTING DECK IS INCLUDED IN THE BID ITEM "CLEANING DECKS".

REMOVAL OF EXISTING CHIP SEAL IS INCIDENTAL TO THE BID ITEM "CLEANING DECKS".

A MAXIMUM OF 1½" OF THE EXISTING DECK MAY BE REMOVED.

APPLY BRIDGE SEAT PROTECTION, AS PER SECTION 502.3.2 OF THE STANDARD SPECIFICATIONS, TO THE TOP SURFACES OF ALL ABUTMENTS AND BELOW EXPANSION DEVICES.

EXISTING BRIDGE IS AN ELEVEN SPAN BRIDGE. SEVEN SPANS - STEEL DECK GRIDER / FLOORBEAM SYSTEM. FOUR SPANS - STEEL DECK TRUSS. TRUSS SPAN LENGTHS ARE APPROXIMATELY 102 FT. DECK GRIDER / FLOORBEAM SYSTEM RANGE FROM 54 TO 88 FEET IN LENGTH. ROADWAY WIDTH IS 30 FEET. DECK WIDTH IS 41.5 FEET.

THE PLAN QUANTITY FOR THE BID ITEM "HMA OVERLAY POLYMER-MODIFIED" IS BASED ON THE AVERAGE OVERLAY THICKNESS.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1-INCH DEEP SAW CUT, INCLUDING DECK PREPARATION AREAS.

THESE STRUCTURE PLANS ARE ONLY THE STRUCTURE REPAIR WORK. ANY ADDITIONAL REMOVAL REQUIRED, OUTSIDE OF THE LIMITS SHOWN IN THESE PLANS MUST BE COORDINATED WITH THE FIELD ENGINEER. FIELD ENGINEER SHOULD BE CONTACTED FOR APPROVAL OF ADDITIONAL REMOVAL.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM POLYMER MODIFIED ASPHALTIC OVERLAY THICKNESS OF 2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS 2½". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN ½", CONTACT THE STRUCTURES DESIGN SECTION.

APPLY "PIGMENTED SURFACE SEALER RESEAL" TO THE EXISTING CONCRETE PARAPETS PER THE STANDARD SPECIFICATIONS AND AS SHOWN IN THIS PLAN SET.

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

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

THE FIRST DIGIT OF A THREE DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

SEE PROJECT ID 7575-01-76 FOR TRAFFIC STAGING. COORDINATE THESE STRUCTURE PLANS WITH THE ROADWAY STAGING.

STATE PROJECT NUMBER

7575-01-65

TOTAL ESTIMATED QUANTITIES - B-32-115

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
203.0330	DEBRIS CONTAINMENT B-32-115	EACH	1
203.0335	DEBRIS CONTAINMENT OVER WATERWAY B-32-115	EACH	1
502.3101	EXPANSION DEVICE	LF	400
502.3205	PIGMENTED SURFACE SEALER RESEAL	SY	641
502.4205	ADHESIVE ANCHORS NO 5. BAR	EACH	64
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	17600
506.0105	STRUCTURAL STEEL CARBON	LB	1340
506.5000	BEARING ASSEMBLIES FIXED B-32-115	EACH	7
506.6000	BEARING ASSEMBLIES EXPANSION B-32-115	EACH	5
506.7050.S	REMOVING BEARINGS B-32-115	EACH	12
509.0301	PREPARATION DECKS TYPE 1	SY	55
509.0302	PREPARATION DECKS TYPE 2	SY	20
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	805
509.0500	CLEANING DECKS	SY	2830
509.1000	JOINT REPAIR	SY	90
509.1500	CONCRETE SURFACE REPAIR	SF	120
509.2000	FULL-DEPTH DECK REPAIR	SY	30
509.2100.S	CONCRETE MASONRY DECK REPAIR	CY	211
509.3500.S	HMA OVERLAY POLYMER-MODIFIED	TON	380
517.1801.S	STRUCTURE REPAINTING RECYCLED ABRASIVE B-32-115	EACH	1
517.4501.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-32-115	EACH	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	1
606.0100	RIPRAP LIGHT	CY	17

QUANTITIES NOTES

- ① CONCRETE FOR:
* PREPARATION DECKS TYPE 1 & 2, *FULL-DEPTH DECK REPAIR, AND JOINT REPAIR.
- ② PERTAINS TO DECK.
- ③ AS LOCATED BY FIELD ENGINEER.

* THESE QUANTITY TOTALS ARE AN ESTIMATE AND ARE INCLUDED IN BID ITEM "CONCRETE MASONRY DECK REPAIR".

- PREPARATION DECKS TYPE 1 = 3 CY
- PREPARATION DECKS TYPE 2 = 3 CY
- FULL-DEPTH DECK REPAIR = 6 CY

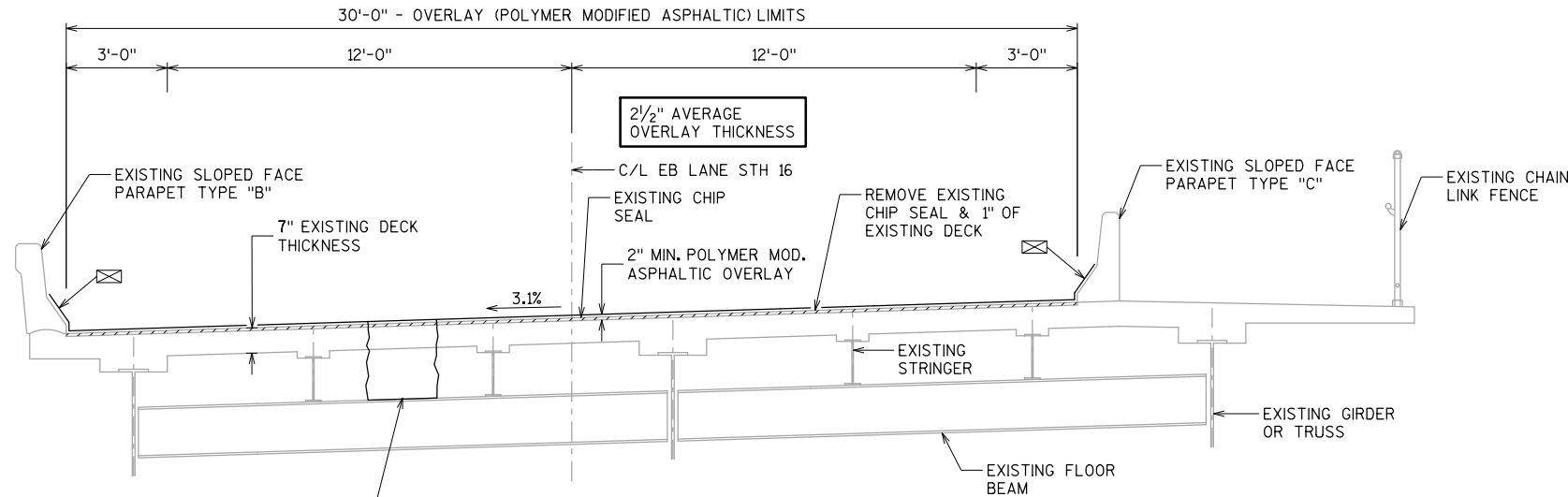
- ⑤ DEBRIS CONTAINMENT WILL ONLY BE PAID FOR LOCATION OVER THE WATER.
- ⑥ SHALL INCLUDED PAYMENT FOR CONTAINMENT OVER THE RAILROAD
- ⑦ EXISTING STEEL REMOVAL ITEMS SHALL BE INCLUDED IN THE PAID ITEM STRUCTURAL STEEL CARBON

LEGEND

☒ COVER PLATES REQUIRED EACH PARAPET JOINT REPAIR LOCATIONS

SCOPE OF WORK

1. PLACE OVERLAY (POLYMER MODIFIED ASPHALTIC).
2. REPLACE EXISTING EXPANSION DEVICES
3. REPLACE BEARING ASSEMBLIES
4. REPAINT PORTIONS OF STEEL GIRDERS AND STEEL TRUSS
5. ADDING STEEL STRENGTHENING TO EXISTING TRUSS
6. LIMITED CONCRETE REPAIRS



REMOVE & REPLACE EXPANSION JOINTS AT NORTH, SOUTH ABUTMENTS AND PIER 1 THRU PIER 10 "JOINT REPAIR"

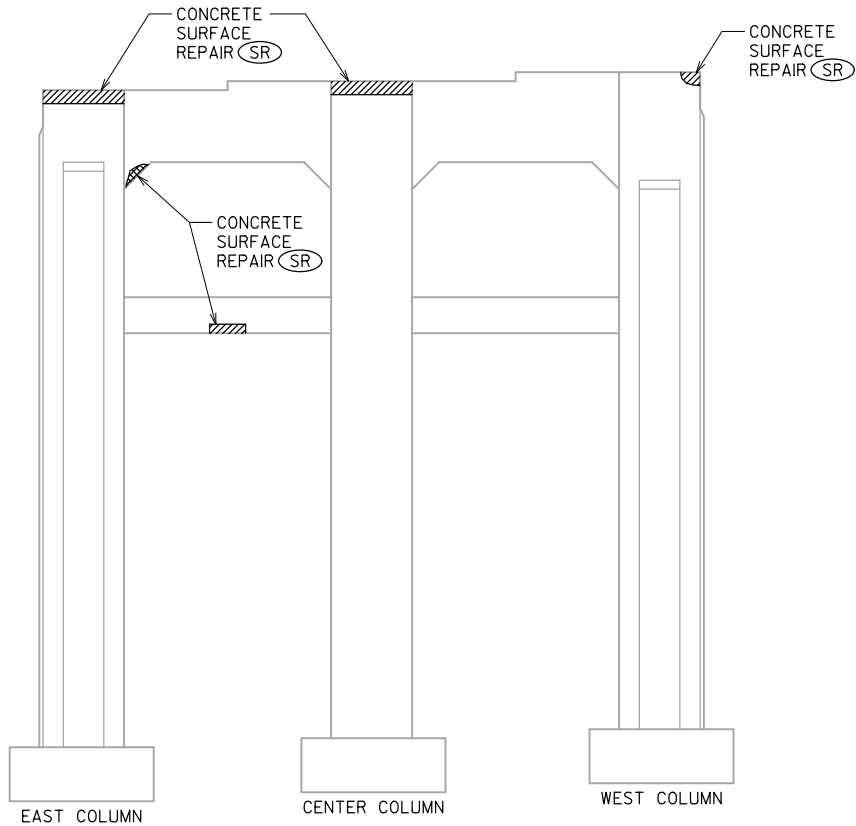
CROSS SECTION THRU ROADWAY
LOOKING NORTH - MID SPAN

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-32-115			
		DRAWN BY	RAD
		PLANS CK'D.	NCK
NOTES AND QUANTITIES		SHEET 2 OF 23	

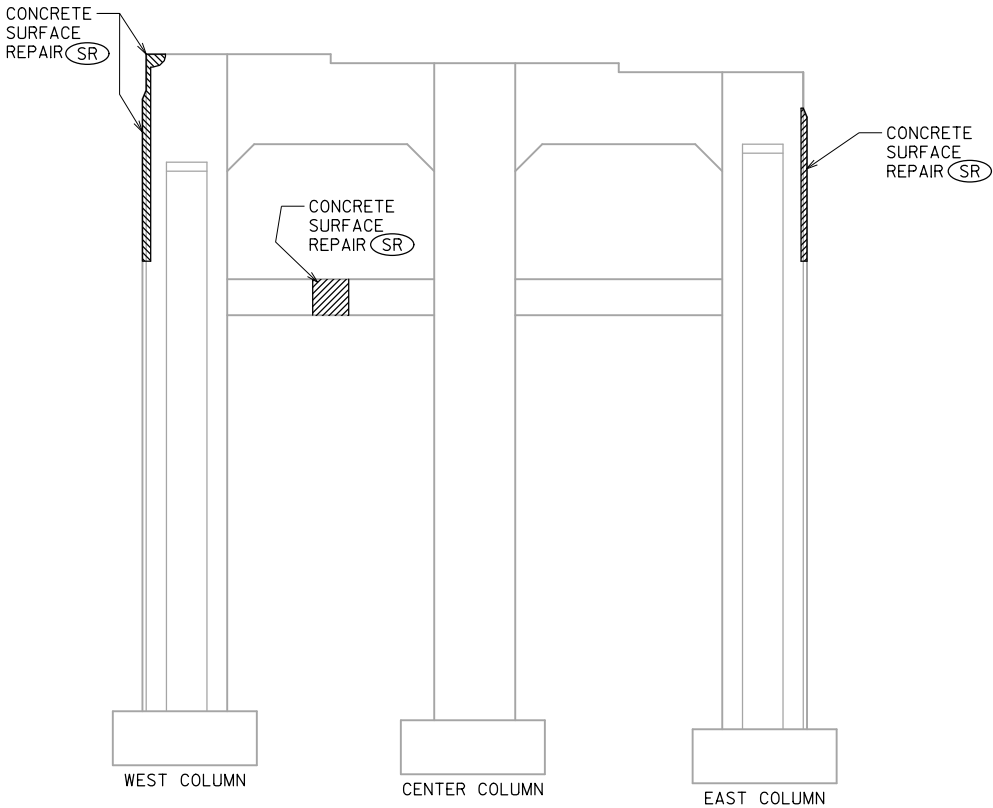
PLOT TIME: 12:34:47 PM

PLOT DATE: 8/1/2024

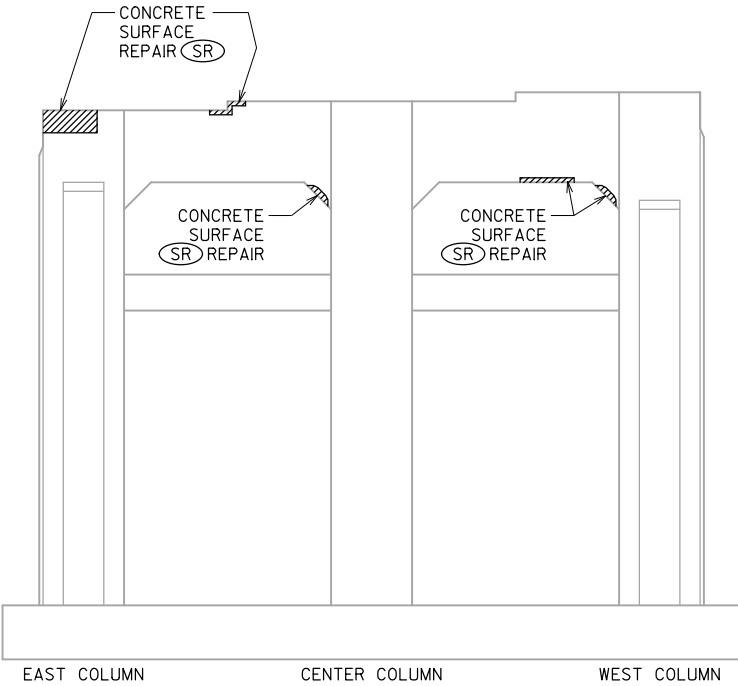
FILE NAME : X:\UZ\W\ITS\W\17883\5-f\nd-dsgn\51-drawings\20-Struct\B-32-115\Sheet\B3215sr.dgn



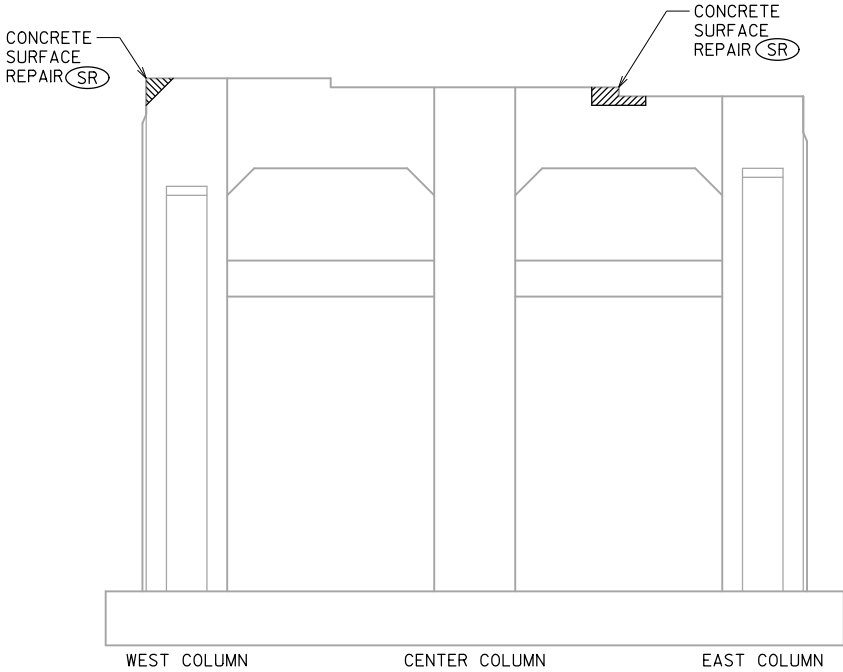
PIER 1 SURFACE REPAIR
LOOKING NORTH





PIER 1 SURFACE REPAIR
LOOKING SOUTH



PIER 2 SURFACE REPAIR
LOOKING NORTH



PIER 2 SURFACE REPAIR
LOOKING SOUTH

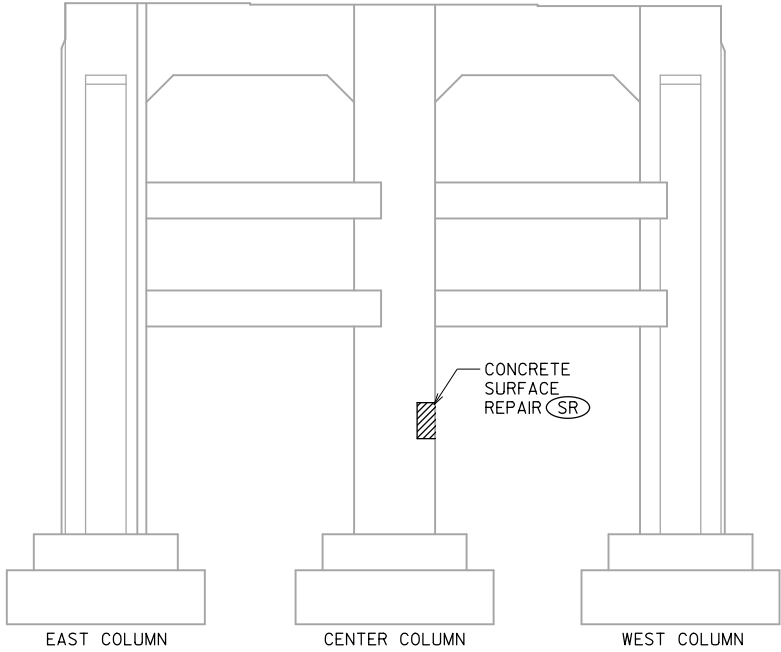
NOTES
SEE GENERAL NOTES AND QUANTITY NOTES ON SHEET 2.
EXPOSED EXISTING REINFORCING STEEL TO BE COMPLETELY CLEANED OF CORRODED MATERIAL.
REMOVE ALL LOOSE CONCRETE PRIOR TO PLACING CONCRETE MASONRY.
 CONCRETE SURFACE REPAIR ON PIERS AS DIRECTED BY THE FIELD ENGINEER BASED ON WISDOT FIELD SKETCHED AND REPORTS.
 QUANTITY AND LOCATION AS VERIFIED AND LAID OUT IN THE FIELD BY THE FIELD ENGINEER. SEE SPECS FOR REQUIREMENTS.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-32-115			
		DRAWN BY	RAD PLANS CK'D. NCK
SUBSTRUCTURE REPAIR DETAILS		SHEET 12 OF 23	

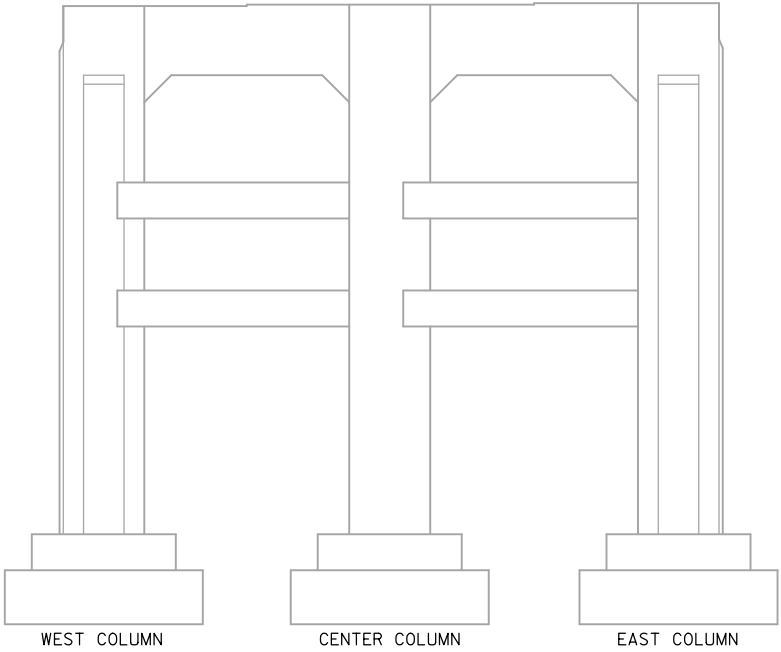
PLOT TIME: 12:34:47 PM

PLOT DATE: 8/1/2024

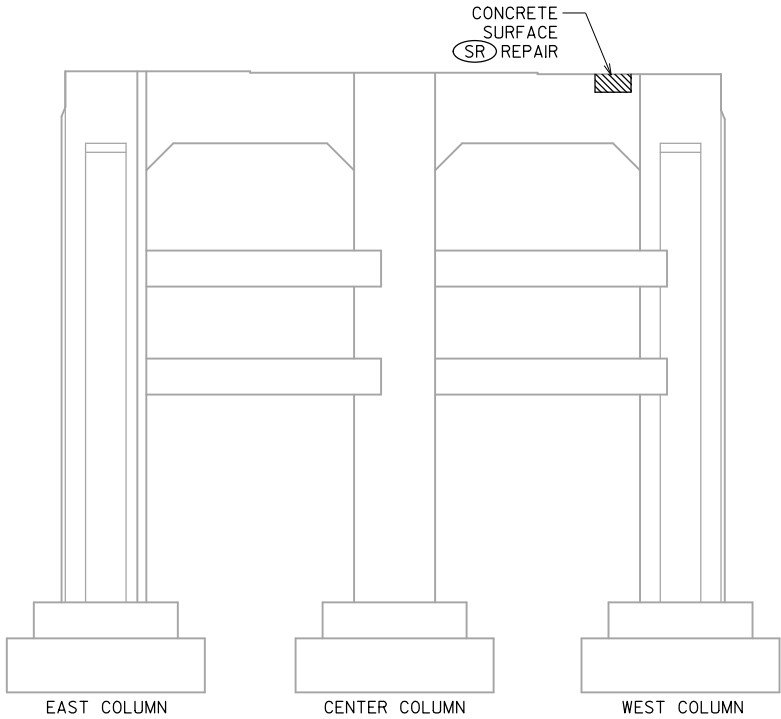
FILE NAME : X:\UZ\W\ITS\W\17883\5-findi-dsgn\51-drawings\20-Struct\B-32-115\Sheet\B3215sr.dgn



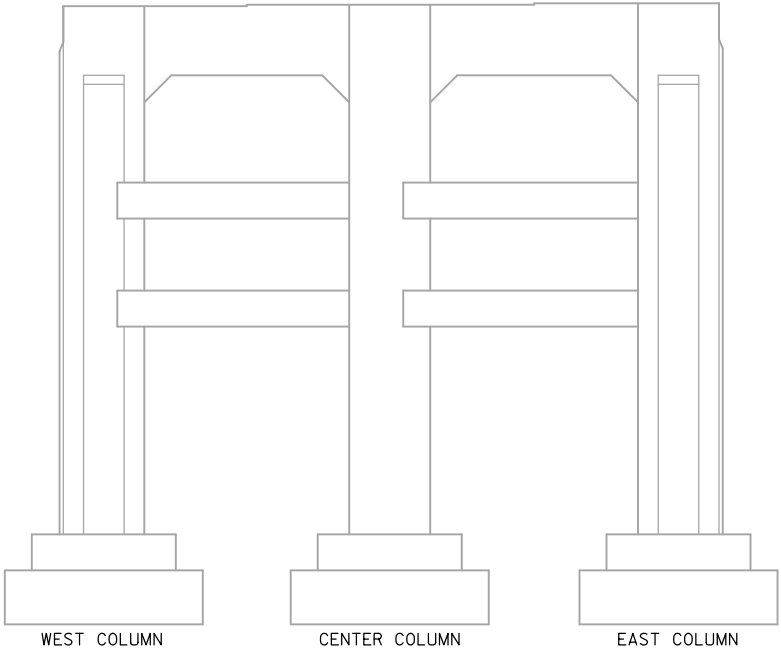
PIER 3 SURFACE REPAIR
LOOKING NORTH



PIER 3 SURFACE REPAIR
LOOKING SOUTH



PIER 4 SURFACE REPAIR
LOOKING NORTH





PIER 4 SURFACE REPAIR
LOOKING SOUTH

NOTES
SEE GENERAL NOTES AND QUANTITY NOTES ON SHEET 2.

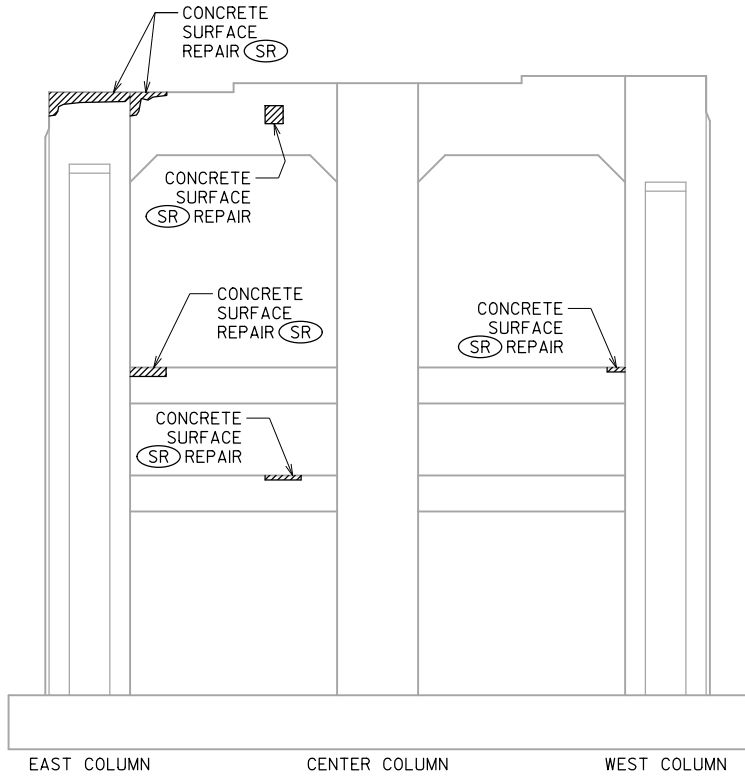
EXPOSED EXISTING REINFORCING STEEL TO BE COMPLETELY CLEANED OF CORRODED MATERIAL.

REMOVE ALL LOOSE CONCRETE PRIOR TO PLACING CONCRETE MASONRY.

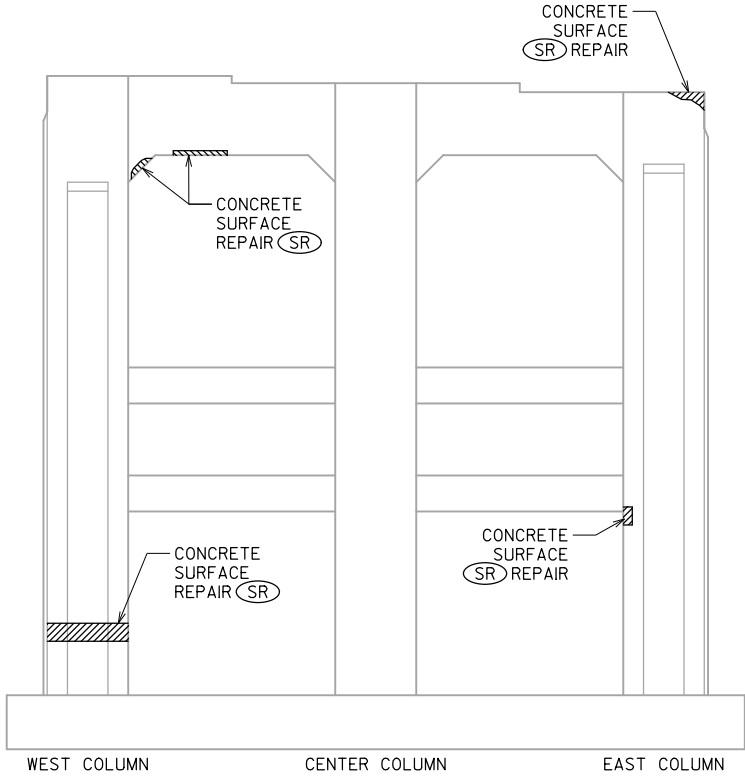
 CONCRETE SURFACE REPAIR ON PIERS AS DIRECTED BY THE FIELD ENGINEER BASED ON WISDOT FIELD SKETCHED AND REPORTS.

 QUANTITY AND LOCATION AS VERIFIED AND LAID OUT IN THE FIELD BY THE FIELD ENGINEER. SEE SPECS FOR REQUIREMENTS.

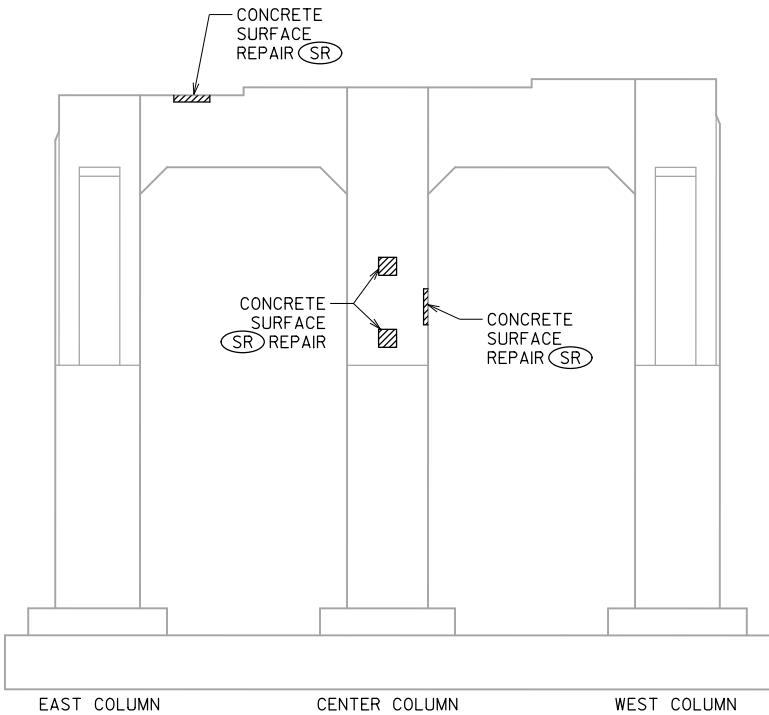
		STATE PROJECT NUMBER	
		7575-01-65	
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-32-115			
		DRAWN BY	RAD
		PLANS CK'D.	NCK
SUBSTRUCTURE REPAIR DETAILS		SHEET 13 OF 23	



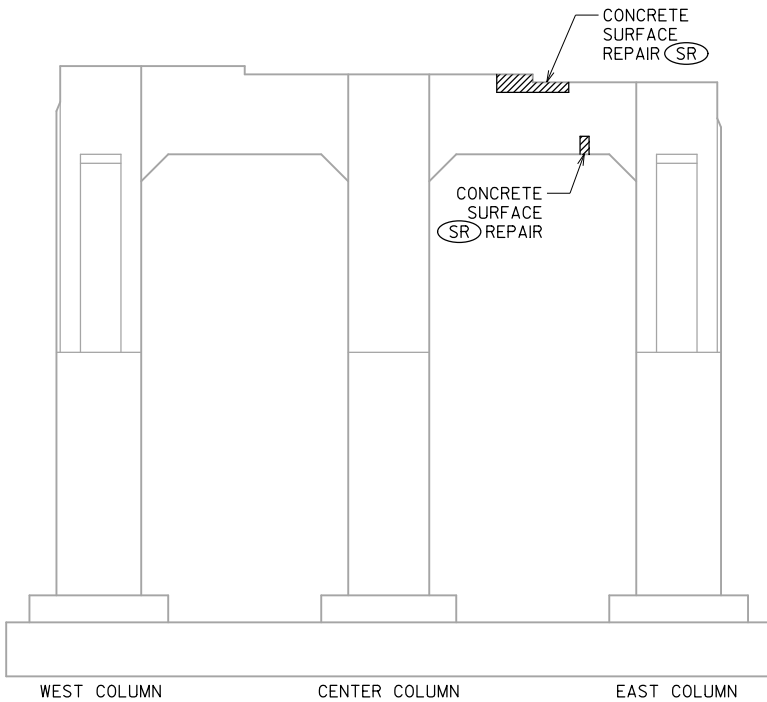
PIER 5 SURFACE REPAIR
LOOKING NORTH



PIER 5 SURFACE REPAIR
LOOKING SOUTH



PIER 6 SURFACE REPAIR
LOOKING NORTH

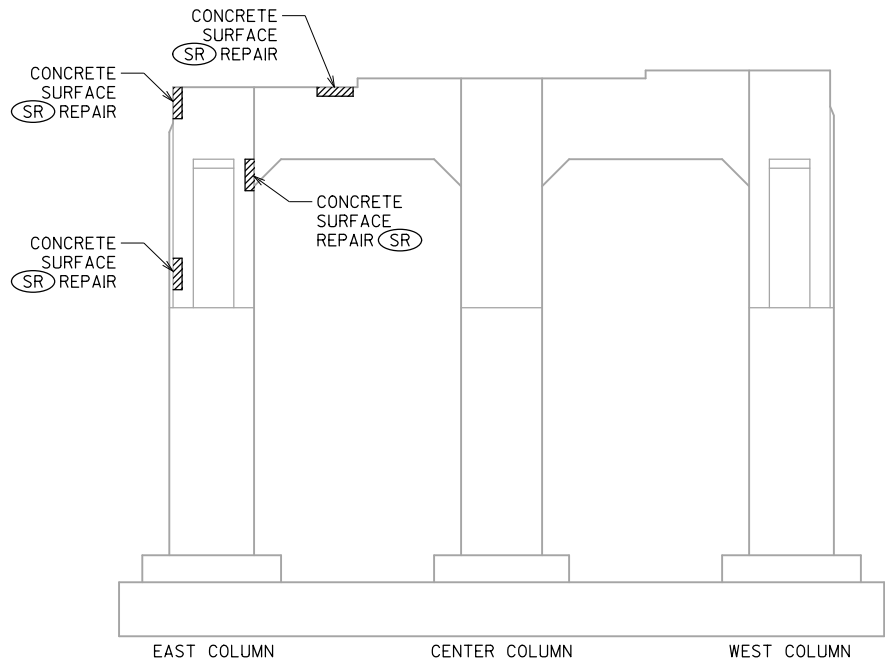


PIER 6 SURFACE REPAIR
LOOKING SOUTH

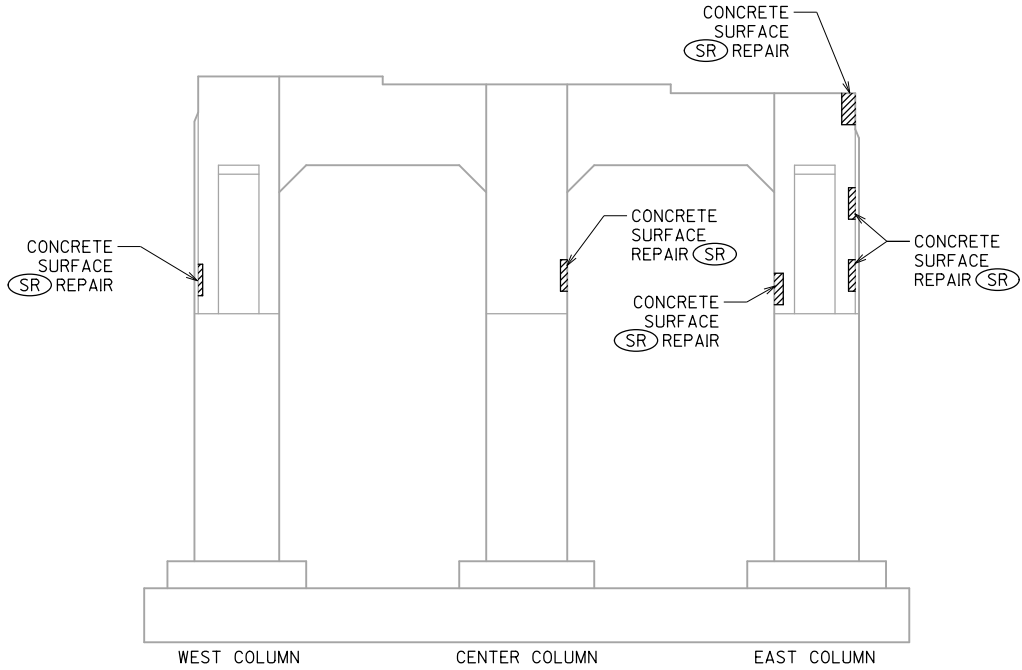
NOTES
SEE GENERAL NOTES AND QUANTITY NOTES ON SHEET 2.
EXPOSED EXISTING REINFORCING STEEL TO BE COMPLETELY CLEANED OF CORRODED MATERIAL.
REMOVE ALL LOOSE CONCRETE PRIOR TO PLACING CONCRETE MASONRY.
CONCRETE SURFACE REPAIR ON PIERS AS DIRECTED BY THE FIELD ENGINEER BASED ON WISDOT FIELD SKETCHED AND REPORTS.
QUANTITY AND LOCATION AS VERIFIED AND LAID OUT IN THE FIELD BY THE FIELD ENGINEER. SEE SPECS FOR REQUIREMENTS.

STATE PROJECT NUMBER
7575-01-65

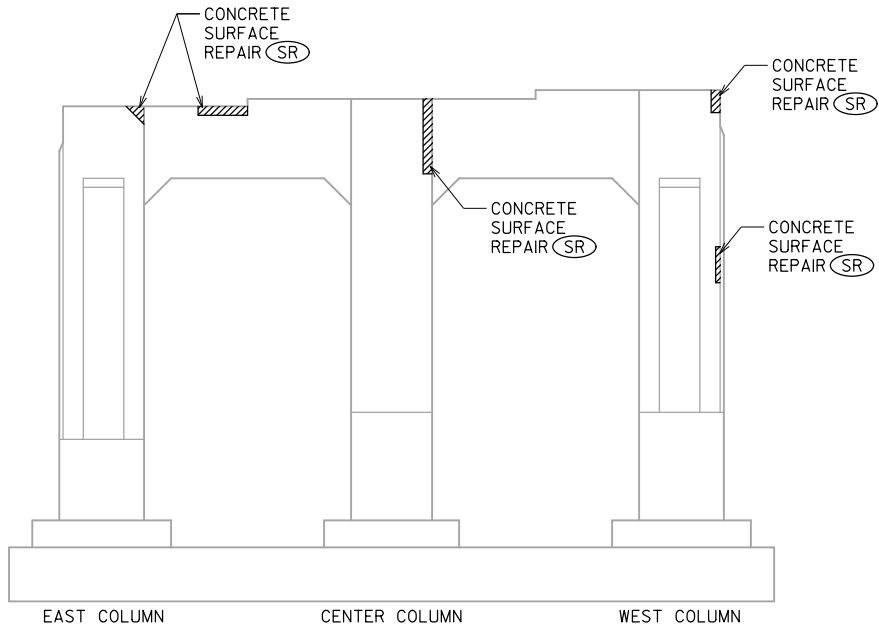
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-32-115			
DRAWN BY		RAD	PLANS CK'D. NCK
SUBSTRUCTURE REPAIR DETAILS		SHEET 14 OF 23	



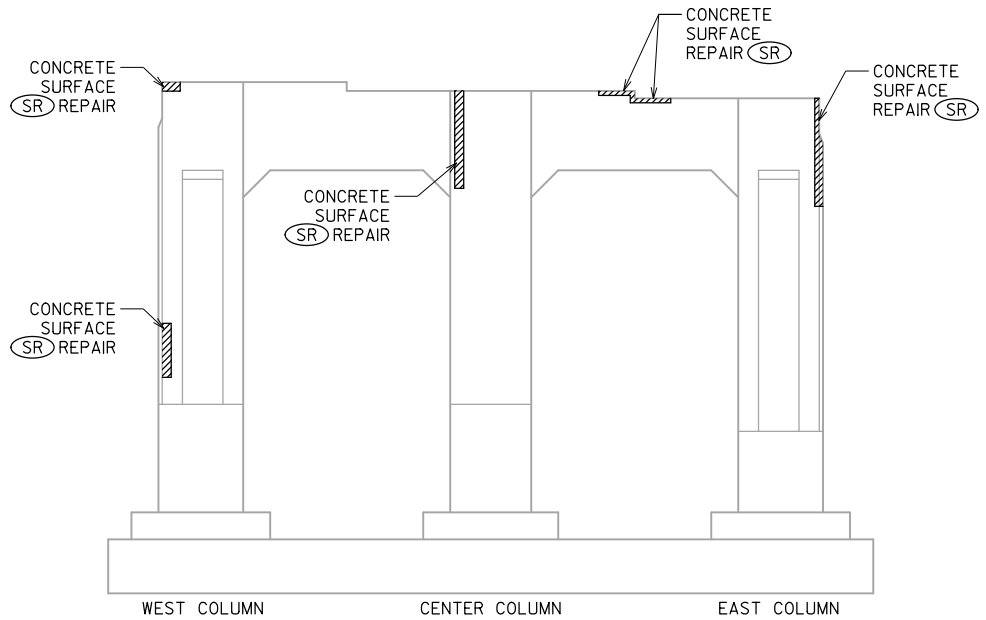
PIER 7 SURFACE REPAIR
LOOKING NORTH



PIER 7 SURFACE REPAIR
LOOKING SOUTH



PIER 8 SURFACE REPAIR
LOOKING NORTH



PIER 8 SURFACE REPAIR
LOOKING SOUTH

NOTES

SEE GENERAL NOTES AND QUANTITY NOTES ON SHEET 2.
EXPOSED EXISTING REINFORCING STEEL TO BE COMPLETELY
CLEANED OF CORRODED MATERIAL.

REMOVE ALL LOOSE CONCRETE PRIOR TO PLACING
CONCRETE MASONRY.



CONCRETE SURFACE REPAIR ON PIERS AS
DIRECTED BY THE FIELD ENGINEER BASED ON
WISDOT FIELD SKETCHED AND REPORTS.



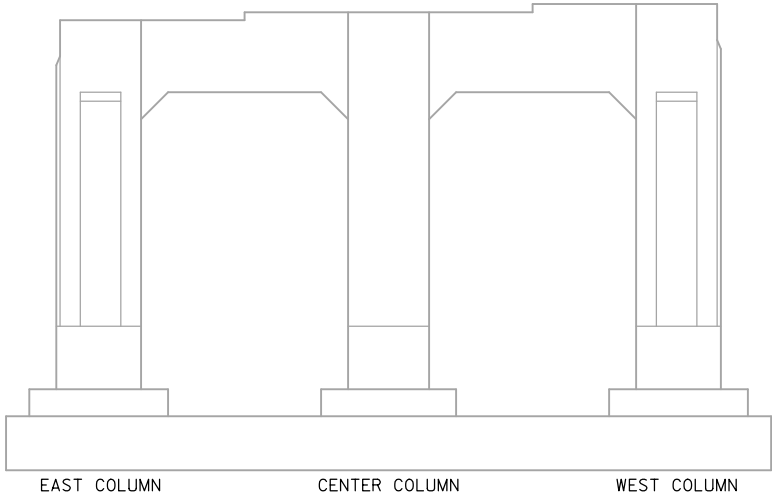
QUANTITY AND LOCATION AS VERIFIED AND LAID
OUT IN THE FIELD BY THE FIELD ENGINEER. SEE
SPECS FOR REQUIREMENTS.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-32-115			
DRAWN BY		RAD	PLANS CK'D. NCK
SUBSTRUCTURE REPAIR DETAILS		SHEET 15 OF 23	

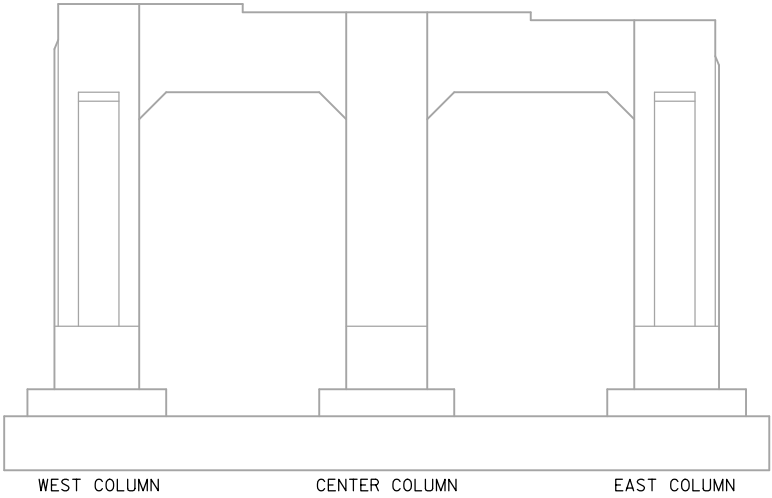
PLOT TIME: 12:34:49 PM

PLOT DATE: 8/1/2024

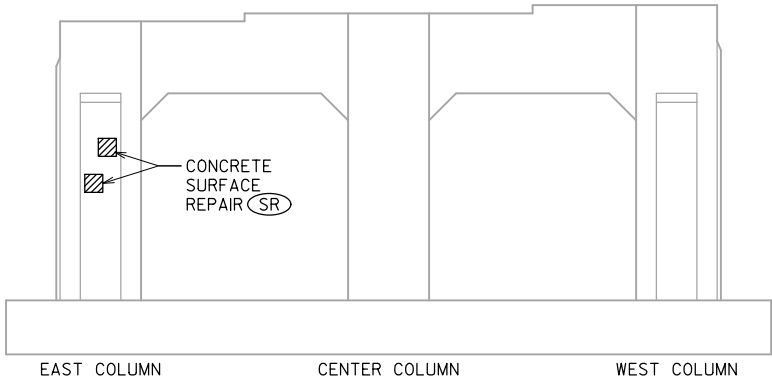
FILE NAME : X:\UZ\W\ITS\W\17883\5- find-dsgn\51-drawings\20-Struct\B-32-115\Sheet\B3215sr.dgn



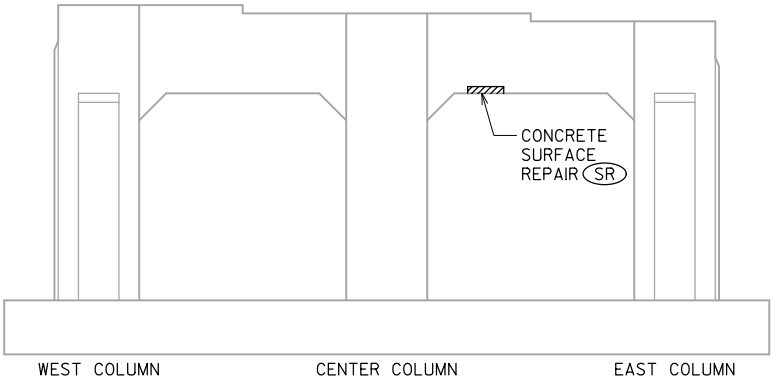
PIER 9 SURFACE REPAIR
LOOKING NORTH



PIER 9 SURFACE REPAIR
LOOKING SOUTH



PIER 10 SURFACE REPAIR
LOOKING NORTH





PIER 10 SURFACE REPAIR
LOOKING SOUTH

NOTES
SEE GENERAL NOTES AND QUANTITY NOTES ON SHEET 2.

EXPOSED EXISTING REINFORCING STEEL TO BE COMPLETELY CLEANED OF CORRODED MATERIAL.

REMOVE ALL LOOSE CONCRETE PRIOR TO PLACING CONCRETE MASONRY.

 CONCRETE SURFACE REPAIR ON PIERS AS DIRECTED BY THE FIELD ENGINEER BASED ON WISDOT FIELD SKETCHED AND REPORTS.

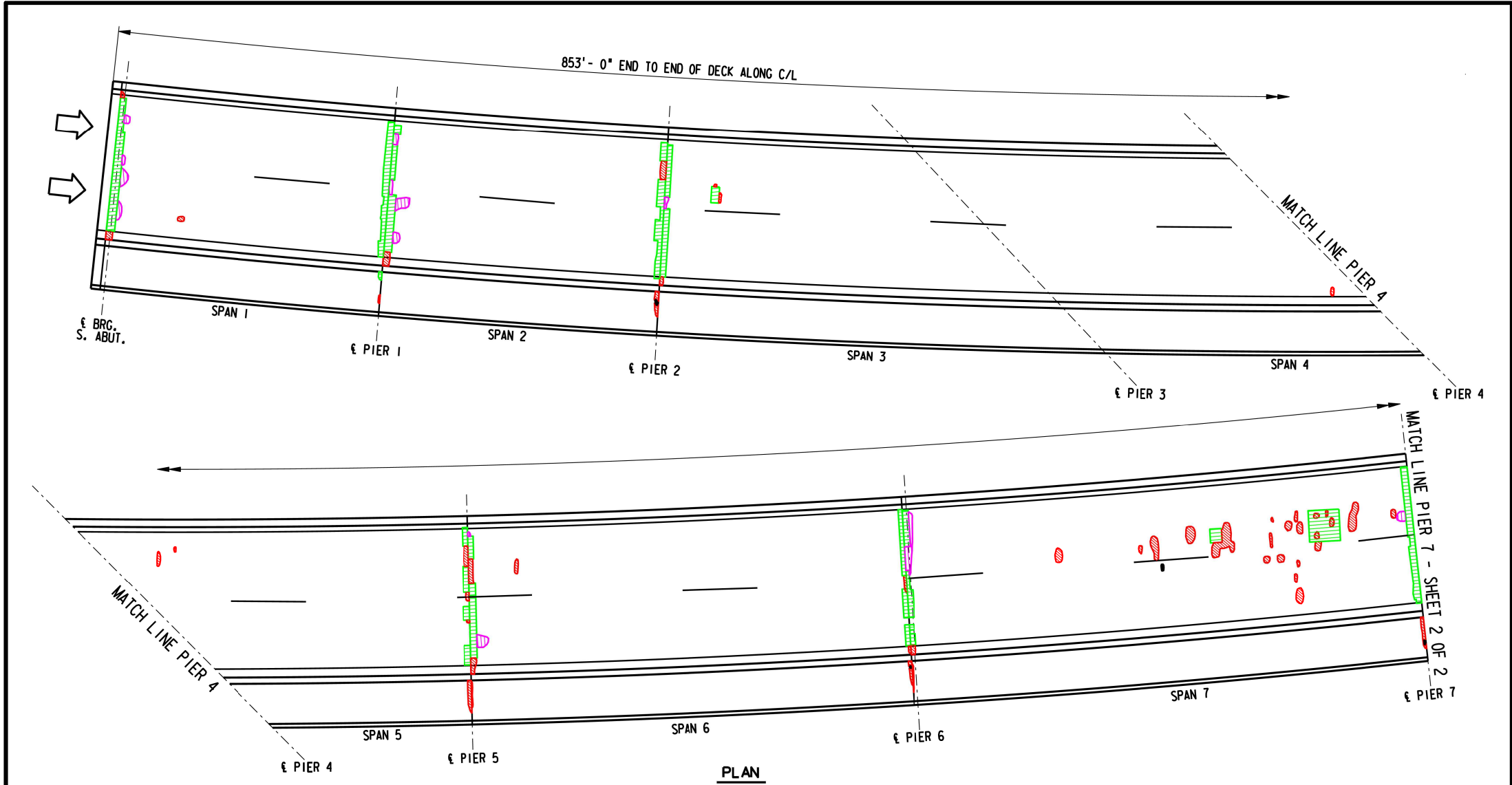
 QUANTITY AND LOCATION AS VERIFIED AND LAID OUT IN THE FIELD BY THE FIELD ENGINEER. SEE SPECS FOR REQUIREMENTS.

		STATE PROJECT NUMBER	
		7575-01-65	
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-32-115			
DRAWN BY		RAD	PLANS CK'D. NCK
SUBSTRUCTURE REPAIR DETAILS		SHEET 16 OF 23	

PLOT TIME: 12:35:01 PM

PLOT DATE: 8/1/2024

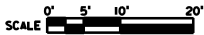
FILE NAME : X:\UZ\W\ITS\W\17883\5-f\nd-dsgn\51-drawings\20-Struct\B-32-115\Sheet\B32151r.dgn



INFRARED THERMOGRAPHIC SURVEY RESULTS

STRUCTURE NO. B-32-115

FIELD OBSERVATIONS SUMMARY		ROADWAY		SIDEWALK		LEGEND	
ITEM	UNIT	QUANT.	%	QUANT.	%		
TOTAL AREA	ft ²	25590		6824		DELAMINATION	
SHADE/DEBRIS	ft ²	0		0		SPALL	
DELAMINATION	ft ²	118	0	40	0	DEBONDED/MISSING TPO	
SPALL	ft ²	1	0	2	0	ASPHALT PATCH	
DEBONDED/MISSING TPO	ft ²	85	0	N/A	N/A	PCC PATCH	
ASPHALT PATCH	ft ²	0	0	0	0	SHADE/DEBRIS	
PCC PATCH	ft ²	571	0	1	0		



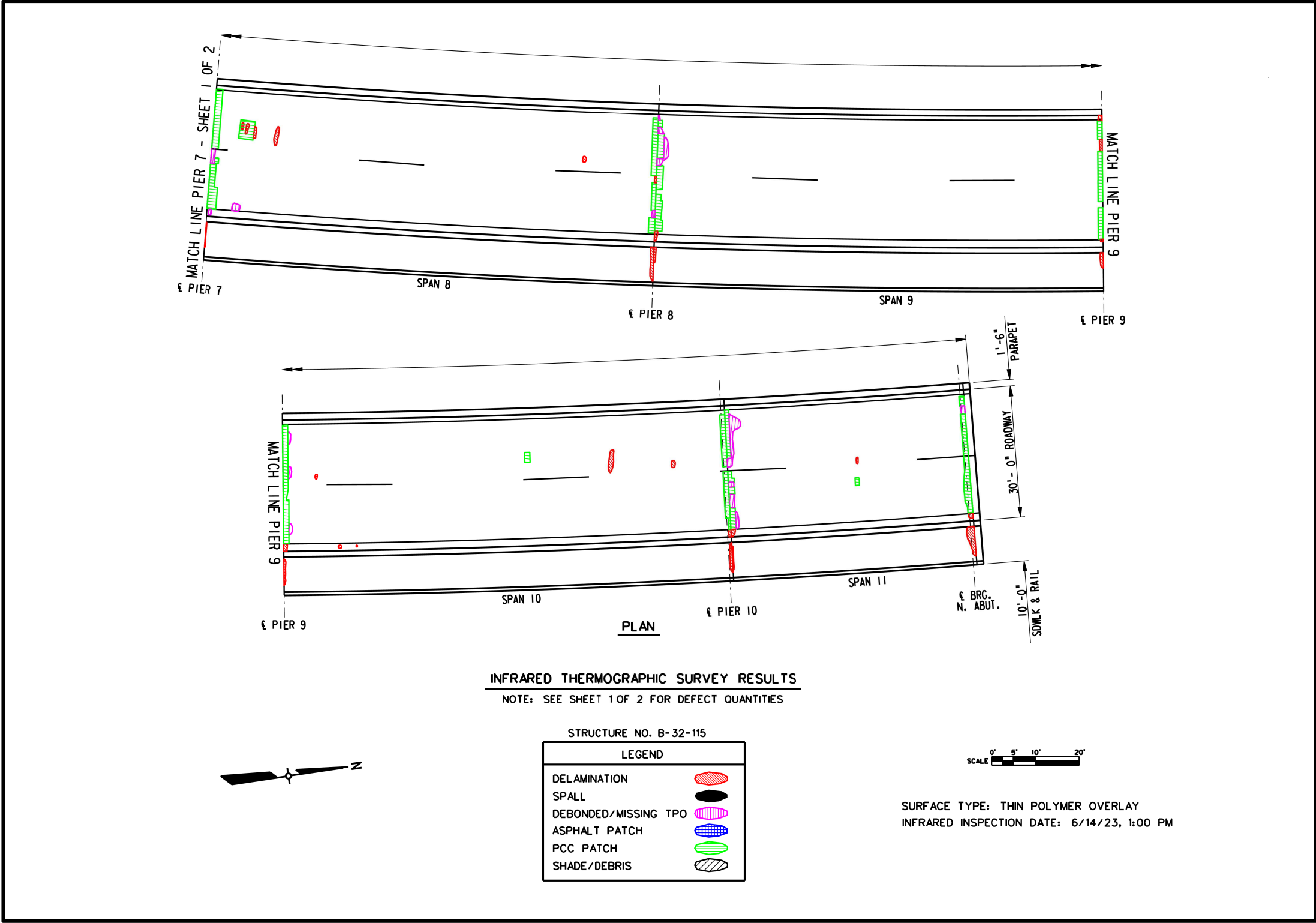
SURFACE TYPE: THIN POLYMER OVERLAY
INFRARED INSPECTION DATE: 6/14/23, 1:00 PM

AECOM

INFRARED THERMOGRAPHIC INVESTIGATION OF STH 16 EB OVER CP RR STRUCTURE NO. B-32-115	
PREPARED FOR WISCONSIN DEPARTMENT OF TRANSPORTATION BUREAU OF STRUCTURES	
DATE	2/26/24
PROJECT NO	60709894
FILENAME	B-32-115-IR.DGN
SHEET NO	1 OF 2
DRAWING NO	

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-32-115			
DRAWN BY		RAD	PLANS CK'D. NCK
INFRARED THERMOGRAPHIC SURVEY RESULTS		SHEET 22 OF 23	

FOR REFERENCE



INFRARED THERMOGRAPHIC SURVEY RESULTS

NOTE: SEE SHEET 1 OF 2 FOR DEFECT QUANTITIES

STRUCTURE NO. B-32-115

LEGEND	
DELAMINATION	
SPALL	
DEBONDED/MISSING TPO	
ASPHALT PATCH	
PCC PATCH	
SHADE/DEBRIS	

SURFACE TYPE: THIN POLYMER OVERLAY
INFRARED INSPECTION DATE: 6/14/23, 1:00 PM

FOR REFERENCE

INFRARED THERMOGRAPHIC INVESTIGATION OF STH 16 EB OVER CP RR STRUCTURE NO. B-32-115		PREPARED FOR WISCONSIN DEPARTMENT OF TRANSPORTATION BUREAU OF STRUCTURES	
DATE	2/26/24	PROJECT NO	60709894
FILENAME	B-32-115-IR.DGN	SHEET NO	2 OF 2
DRAWING NO			

DATA COL

TT/TG

ANALYSIS

DS

CARD

TG

CHECKED

BS

Copyright ©

2024 AECOM

REVISIONS

NO

DATE

AECOM

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-32-115			
DRAWN BY		RAD	PLANS CK'D. NCK
INFRARED THERMOGRAPHIC SURVEY RESULTS		SHEET 23 OF 23	