



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: PAR SUBMITTED, NEW REPAIRS, SIGN NOTICE
ISSUED, HYDRAPLATFORM USED

Structure Safety Report

Routine Element Inspection - Contract

STRUCTURE NUMBER: 600229 SAP STRUCTURE NO: 0610229 FHWA STRUCTURE NO: 000000001210229
DIVISION: 13 COUNTY: MITCHELL INSPECTION DATE: 10/17/2023 FREQUENCY: 24 MONTHS
FACILITY CARRIED: SR1357 MILE POST: _____
LOCATION: .01 N.JCT.SR1336
FEATURE INTERSECTED: NORTH TOE RIVER
LATITUDE: 35° 59' 33.58" LONGITUDE: 82° 15' 28.3"
SUPERSTRUCTURE: RC FL.& PPC DECK PANELS ON PPC GDR.(S.I.P.METAL FORMS)
SUBSTRUCTURE: E.BTS&INT.BT4:RC CAPS/H-PILES;INT.BTS1-3:REINF.CONC.P&B
SPANS: 5 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS
☐ FRACTURE CRITICAL ☐ TEMPORARY SHORING ☐ SCOUR CRITICAL ☐ SCOUR PLAN OF ACTION
GRADES: (Inspector/NBI Coding) DECK 7 / 7 SUPERSTRUCTURE 6 / 6 SUBSTRUCTURE 7 / 7 CULVERT N / N
POSTED SV: Not Posted POSTED TTST: Not Posted
OTHER SIGNS PRESENT: ONE (1) DELINEATOR



LOOKING NORTH

Sign noticed issued for		Number Required
<u>NO</u>	WEIGHT LIMIT	<u>0</u>
<u>YES</u>	DELINEATORS	<u>1</u>
<u>NO</u>	NARROW BRIDGE	<u>0</u>
<u>NO</u>	ONE LANE BRIDGE	<u>0</u>
<u>NO</u>	LOW CLEARANCE	<u>0</u>

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS _____

INSPECTED BY
MICHAEL WINTERMANTEL

SIGNATURE

MW

ASSISTED BY CARLOS SOLIS

NATIONAL BRIDGE INVENTROY ----- STRUCTURE INVENTORY AND APPRAISAL

01/09/2024

IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE 600229
(8) STRUCTURE NUMBER (FEDERAL) 1210229
(5) INVENTORY ROUTE (ON/UNDER) ON 31013570
(2) STATE HIGHWAY DEPARTMENT DISTRICT 13
(3) COUNTY CODE (FEDERAL) 121 (4) PLACE CODE 0
(6) FEATURE INTERSECTED NORTH TOE RIVER
(7) FACILITY CARRIED SR1357
(9) LOCATION .01 N.JCT.SR1336
(11) MILEPOINT 0.0
(12) BASE HIGHWAY NETWORK 0
(13) LRS INVENTORY ROUTE & SUBROUTE 0
(16) LATITUDE 35° 59' 33.58" (17) LONGITUDE 82° 15' 28.3"
(98) BORDER BRIDGE STATE CODE PERCENT SHARED
(99) BORDER BRIDGE STRUCTURE NUMBER

SUFFICIENCY RATING 83.59

STATUS =

CLASSIFICATION

CODE

(112) NBIS BRIDGE SYSTEM Y
(104) HIGHWAY SYSTEM Inventory Route not on NHS 0
(26) FUNCTIONAL CLASS Rural Local 09
(100) STRAHNET HIGHWAY Not a STRAHNET Route 0
(101) PARALLEL STRUCTURE No parallel structure exists N
(102) DIRECTION OF TRAFFIC 2-way traffic 2
(103) TEMPORARY STRUCTURE
(110) DESIGNATED NATIONAL NETWORK - on national network for trucks 0
(20) TOLL On Free Road 3
(21) MAINT - 01
(22) OWNER - 01
(37) HISTORICAL SIGNIFICANCE - 5

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN Prestressed Concrete
TYPE Stringer/Multi-beam or girder CODE 502
(44) STRUCTURE TYPE APPROACH
TYPE CODE
(45) NUMBER OF SPANS IN MAIN UNIT 5
(46) NUMBER OF SPANS IN APPROACH 0
(107) DECK STRUCTURE TYPE CODE 2
(108)WEARING SURFACE/PROTECTIVE SYSTEM
(A) TYPE OF WEARING SURFACE CODE 1
(B) TYPE OF MEMBRANE CODE 0
(C) TYPE OF DECK PROTECTION CODE 0

CONDITION

CODE

(58) DECK 7
(59) SUPERSTRUCTURE 6
(60) SUBSTRUCTURE 7
(61) CHANNEL & CHANNEL PROTECTION 7
(62) CULVERTS N

LOAD RATING AND POSTING

CODE

(31) DESIGN LOAD H 20 + Mod 6
(63) OPERATING RATING METHOD - Load Factor 1
(64) OPERATING RATING - HS-51 92
(65) INVENTORY RATING METHOD - 1
(66) INVENTORY RATING HS-19 34
(70) BRIDGE POSTING No Posting Required 5
(41) STRUCTURE OPEN, POSTED, OR CLOSED
DESCRIPTION Open, no restriction A

AGE AND SERVICE

(27) YEAR BUILT 1984
(106) YEAR RECONSTRUCTED 0
(42) TYPE OF SERVICE ON - Highway
OFF - Waterway CODE 15
(28) LANES ON STRUCTURE 2 LANES UNDER STRUCTURE 0
(29) AVERAGE DAILY TRAFFIC 750
(30) YEAR OF ADT 2019 (109) TRUCK ADT PCT 6
(19) BYPASS OR DETOUR LENGTH 9.0

APPRAISAL

CODE

(67) STRUCTURAL EVALUATION 6
(68) DECK GEOMETRY N
(69) UNDERCLEARANCES, VERT & HORIZ N
(71) WATERWAY ADEQUACY 8
(72) APPROACH ROADWAY ALIGNMENT 8
(36) TRAFFIC SAFETY FEATURES 1101
(113) SCOUR CRITICAL BRIDGES 8

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 66.0
(49) STRUCTURE LENGTH 309.0
(50) CURB OR SIDEWALK: LEFT 0.0 RIGHT 0.0
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB 24.0
(52) DECK WIDTH OUT TO OUT 26.5
(32) APPROACH ROADWAY WITH (W/ SHOULDERS) 36.0
(33) BRIDGE MEDIAN No median CODE 0
(34) SKEW 0 (35) STRUCTURE FLARED 0
(10) INVENTORY ROUTE MIN VERT CLEAR 9999.0
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR 24.0
(53) MIN VERT CLEAR OVER BRIDGE RDWY 9999.0
(54) MIN VERT UNDERCLEAR: REFERENCE N 0.0
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE N 0.0
(56) MIN LAT UNDERCLEARANCE LT: 0.0

PROPOSED IMPROVEMENTS

CODE

(75) TYPE OF WORK
(76) LENGTH OF STRUCTURE IMPROVEMENT
(94) BRIDGE IMPROVEMENT COST
(95) ROADWAY IMPROVEMENT COST
(96) TOTAL PROJECT COST
(97) YEAR OF IMPROVEMENT COST ESTIMATE
(114) FUTURE ADT 1,500 YEAR OF FUTURE ADT 2040

NAVIGATION DATA

(38) NAVIGATION CONTROL - CODE 0
(111) PIER PROTECTION CODE
(39) NAVIGATION VERTICAL CLEARANCE 0.0
(116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR 0.0
(40) NAVIGATION HORIZONTAL CLEARANCE 0.0

INSPECTION

(90) INSPECTION DATE 10/23 (91) FREQUENCY 24
(92) CRITICAL FEATURE INSPECTION (93) CFI DATE
A) FRACTURE CRIT DETAIL A)
B) UNDERWATER INSP B)
C) OTHER SPECIAL INSP C)
SCOUR

Superstructure Build Details

Span Number 1

Span Length 41.000

Skew 90.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
16	Elastomeric Bearing Pad	Elastomeric Bearing	16 Each		
2	Concrete Railing	Reinforced Concrete Bridge Railing	82 Feet		
8	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	338 Feet		
1	Single Point Urban Interchange Deck	Reinforced Concrete Deck	2000 Square Feet		

Span Number 2

Span Length 67.000

Skew 90.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	268 Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	134 Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1776 Square Feet		
1	Open Joint	Open Expansion Joint	27 Feet		
8	Elastomeric Bearing Pad	Elastomeric Bearing	8 Each		

Span Number 3

Span Length 67.000

Skew 90.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
8	Elastomeric Bearing Pad	Elastomeric Bearing	8 Each		
4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	268 Feet		
1	Open Joint	Open Expansion Joint	27 Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	134 Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1776 Square Feet		

Span Number 4

Span Length 67.000

Skew 90.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Open Joint	Open Expansion Joint	27 Feet		
8	Elastomeric Bearing Pad	Elastomeric Bearing	8 Each		

Superstructure Build Details

1	Reinforced Concrete Deck	Reinforced Concrete Deck	1776 Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	134 Feet		
4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	268 Feet		

Span Number 5 Span Length 67.000 Skew 90.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
2	Delineator	Warning Signs	2 Each		
1	Open Joint	Open Expansion Joint	27 Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	134 Feet		
8	Elastomeric Bearing Pad	Elastomeric Bearing	8 Each		
4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	268 Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1776 Square Feet		

Structure Element Scoring

Structure Number: **600229**

Inspection Date **10/17/202**
3

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12		Reinforced Concrete Deck	Deck	9,104	9,104	0	0	0
109		Prestressed Concrete Open Girder/Beam	Beam	1,410	1,377	24	9	0
205		Reinforced Concrete Column	Piles and Columns	6	1	5	0	0
215		Reinforced Concrete Abutment	Abutments	117	117	0	0	0
225		Steel Pile	Piles and Columns	8	6	0	0	2
515	225	Steel Protective Coating	Piles and Columns	488	487	0	0	1
234		Reinforced Concrete Pier Cap	Caps	201	190	9	2	0
521	234	Concrete Protective Coating	Caps	500	500	0	0	0
304		Open Expansion Joint	Expansion Joints	108	52	54	2	0
310		Elastomeric Bearing	Bearing Device	48	48	0	0	0
331		Reinforced Concrete Bridge Railing	Bridge Rail	618	511	107	0	0
602		Warning Signs	Ground Mounted Signs	2	1	0	0	1

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **600229**

Inspection Date: **10/17/2023**

MMS Code	Element Name	Defect Name	Recommended Quantity
3306	Prestressed Concrete Open Girder/Bear	Delamination/Spall	4 Feet
3306	Prestressed Concrete Open Girder/Bear	Exposed Prestressing	5 Feet
3306	Prestressed Concrete Open Girder/Bear	Exposed Rebar	1 Feet
3354	Steel Pile	Corrosion	2 Each
3348	Reinforced Concrete Pier Cap	Delamination/Spall	2 Feet
	Open Expansion Joint	Adjacent Deck or Header	2 Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	1 Square Feet
3250	Warning Signs	General Condition	1 Each

Element Structure Maintenance Quantities

Structure Number: **600229**

Inspection Date **10/17/2023**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Beam	3306	Maintenance Concrete Superstructure Components	10	1410	0.000	9.000	24.000	1377.000
Bearing Device	3334	Bridge Bearing	0	48	0.000	0.000	0.000	48.000
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	0	618	0.000	0.000	107.000	511.000
Deck	3326	Maintenance of Concrete Deck	0	7104	0.000	0.000	0.000	7104.000
Deck	3326	Maintenance of Concrete Deck	0	2000	0.000	0.000	0.000	2000.000
Ground Mounted Signs	3250	Install or Replace Ground Mounted Signs	1	2	1.000	0.000	0.000	1.000
Abutments	3350	Maintenance of Concrete Wings and Wall	0	117	0.000	0.000	0.000	117.000
Caps	3348	Maintenance of Concrete Substructure	2	201	0.000	2.000	9.000	190.000
Caps	5603	Partial Cleaning and Painting of Structural Steel	0	500	0.000	0.000	0.000	500.000
Piles and Columns	3342	Clean and Paint Steel	1	488	1.000	0.000	0.000	487.000
Piles and Columns	3348	Maintenance of Concrete Substructure	0	6	0.000	0.000	5.000	1.000
Piles and Columns	3354	Maintenance of Steel Substructure Components	2	8	2.000	0.000	0.000	6.000

Priority Actions Request

Structure Number 600229

Span4

3306 **Beam 1** Prestressed Concrete Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Prestressing	2	Span 4 Beam 1: (PAR) AT 24 FEET FROM BENT 3, UNDERSIDE OF BOTTOM FLANGE, SPALL (20 INCHES LONG X UP TO 18 INCHES WIDE X UP TO 1 INCH DEEP) WITH TWO (2) EXPOSED AND RUSTED PRESTRESSED STRANDS (75 PERCENT REMAINING)

3306 **Beam 4** Prestressed Concrete Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Prestressing	3	Span 4 Beam 4: (PAR) AT 12 FEET FROM BENT 3, EAST FACE OF BOTTOM FLANGE, SPALL (26 INCHES LONG X 7 INCHES WIDE X UP TO 4 INCHES DEEP) WITH TWO (2) EXPOSED AND RUSTED PRESTRESSED STRANDS (80 PERCENT REMAINING)

Span5

3250 **Northeast Delineator** Delineator

Priority Level	Defect Type	Quantity	Defect Description
2	General Condition	1	Span 5 Northeast Delineator: (PAR) NORTHEAST DELINEATOR IS LAYING ON GROUND

Bent 4

3354 **Row 2 Pile 1** Steel Pile

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Bent 4 Row 2 Pile 1: (PAR) NORTH FACE AT CAP, ACTIVE CORROSION WITH SECTION LOSS (FULL WIDTH X 1 INCH HIGH X 0.3125 INCH AVERAGE REMAINING)

3354 **Row 2 Pile 3** Steel Pile

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Bent 4 Row 2 Pile 3: (PAR) TOP NORTH FACE AT CAP, ARRESTED CORROSION WITH SECTION LOSS (FULL WIDTH X UP TO 2 INCHES HIGH X 0.25 INCH AVERAGE REMAINING)

Element Condition and Maintenance Data

Structure Number: 600229

Inspection Date: 10/17/2023

Span 1 Deck

Single Point Urban Interchange Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	2,000	2,000	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 12	Cracking (RC and Other)	HAIRLINE MAP CRACKING THROUGHOUT	1	1,500		Square Feet
General Comments						

Span 1 Beam 2

Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestressed Concrete Open Girder/Beam	42	40	0	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 109	Delamination/Spall	EAST FACE OF WEB AT BENT 1, SPALL (15 INCHES LONG X 6 INCHES HIGH X 2 INCHES DEEP) WITH EXPOSED REBAR (NO LOSS NOTED) AND ADJACENT DELAMINATION (13 INCHES LONG X 3 INCHES HIGH) AT END OF GIRDER	3	2	2	Feet
General Comments						

Span 2 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,776	1,776	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 12	Cracking (RC and Other)	HAIRLINE MAP CRACKING THROUGHOUT	1	1,250		Square Feet
General Comments						

Span 2 Beam 4

Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestressed Concrete Open Girder/Beam	67	65	0	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 109	Delamination/Spall	WEST FACE OF WEB AT BENT 1, SPALL (11 INCHES LONG X 3 INCHES HIGH X 3/4 INCH DEEP) WITH ADJACENT DELAMINATION (11 INCHES LONG X 4 INCHES HIGH)	3	1	1	Feet
<input checked="" type="checkbox"/> 109	Delamination/Spall	WEST FACE OF WEB AT BENT 2, SPALL (4 INCHES LONG X 10 INCHES HIGH X 1 INCH DEEP) WITH ADJACENT DELAMINATION (10 INCHES LONG X 12 INCHES HIGH)	3	1	1	Feet

General Comments
Span 2
Left Bridge Rail
Concrete Railing

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing		67	13	54	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LOCATIONS, HAIRLINE MAP CRACKING	2	25		Feet
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LOCATIONS, VERTICAL CRACKS (UP TO FULL HEIGHT X UP TO 1/32 INCH WIDE) SOME WRAPAROUND AND SOME EFFLORESCENCE	2	29		Feet

General Comments
Span 2
Right Bridge Rail
Concrete Railing

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing		67	51	16	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LOCATIONS, HAIRLINE MAP CRACKING	2	5		Feet
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LOCATIONS, VERTICAL CRACKS (UP TO FULL HEIGHT X UP TO 1/32 INCH WIDE) SOME WRAPAROUND AND SOME EFFLORESCENCE	2	11		Feet

General Comments
Span 2
Expansion Joint
Open Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
304	Open Expansion Joint	27	0	27	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 304	Debris Impaction	ALONG LENGTH, AREAS OF DEBRIS IMPACTION (FULL LENGTH) WITH VEGETATION GROWTH	2	27		Feet

General Comments
Span 3
Deck
Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,776	1,776	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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Inspection Date: 10/17/2023

✓ 12	Delamination/Spall	1 INCH WIDE X 4 INCHES LONG X 2 INCHES DEEP SPALL NEAR THE CENTERLINE OF THE BRIDGE AT JOINT OVER BENT 2-MOVED TO DECK HEADER AT SPAN 3 BENT 2 JOINT	3		Square Feet
✓ 12	Delamination/Spall	1 INCH WIDE X 9 INCHES LONG X 1 INCH DEEP SPALL AT JOINT OVER BENT 3 EDGE AT CENTERLINE OF ROADWAY-MOVED TO DECK HEADER AT SPAN 4 BENT 3 JOINT	3		Square Feet
✓ 12	Cracking (RC and Other)	HAIRLINE MAP CRACKING THROUGHOUT.	1	1,250	Square Feet
General Comments					

Span 3

Beam 3

Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestressed Concrete Open Girder/Beam	67	67	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 109	Exposed Rebar	END DIAPHRAGM AT BAY 3 BENT 2, SPALL WITH EXPOSED REBAR (4 INCH DIAMETER X 1/2 INCH DEEP) WITH EXPOSED REBAR (90 PERCENT REMAINING)	3		1 Feet
General Comments					

Span 3

Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	67	53	14	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LOCATIONS, HAIRLINE MAP CRACKING	2	7	Feet
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LOCATIONS, VERTICAL CRACKS (UP TO FULL HEIGHT X UP TO 1/32 INCH WIDE) SOME WRAPAROUND AND SOME EFFLORESCENCE	2	7	Feet

General Comments

Span 3

Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	67	63	4	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LOCATIONS, HAIRLINE MAP CRACKING	2	2	Feet
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LOCATIONS, VERTICAL CRACKS (UP TO FULL HEIGHT X UP TO 1/32 INCH WIDE) SOME WRAPAROUND AND SOME EFFLORESCENCE	2	2	Feet

General Comments

Span 3 Expansion Joint**Open Joint**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
304	Open Expansion Joint	27	26	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 304	Adjacent Deck or Header	NEAR CENTERLINE AT BENT 2 JOINT ON SPAN 2 SIDE, SPALL (4 INCHES LONG X 12 INCHES WIDE X 2 INCHES DEEP)	3	1	1 Feet

General Comments					
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Span 4 Deck**Reinforced Concrete Deck**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	1,776	1,776	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 12	Delamination/Spall	1 FOOT WIDE X 9 INCHES LONG X 1 INCH DEEP SPALL AT THE EXPANSION JOINT EDGE AT CENTERLINE OF ROADWAY-MOVED TO DECK HEADER AT SPAN 3 BENT 3 JOINT	2		Square Feet
<input checked="" type="checkbox"/> 12	Cracking (RC and Other)	HAIRLINE MAP CRACKING THROUGHOUT.	1	1,250	Square Feet

General Comments					
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Span 4 Beam 1**Prestressed Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestressed Concrete Open Girder/Beam	67	65	0	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 109	Exposed Prestressing	(PAR) AT 24 FEET FROM BENT 3, UNDERSIDE OF BOTTOM FLANGE, SPALL (20 INCHES LONG X UP TO 18 INCHES WIDE X UP TO 1 INCH DEEP) WITH TWO (2) EXPOSED AND RUSTED PRESTRESSED STRANDS (75 PERCENT REMAINING)	3	2	2 Feet

General Comments					
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Span 4 Beam 4**Prestressed Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestressed Concrete Open Girder/Beam	67	61	3	3	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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Structure Number: **600229**Inspection Date: **10/17/2023**

<input checked="" type="checkbox"/>	109	Exposed Prestressing	(PAR) AT 12 FEET FROM BENT 3, EAST FACE OF BOTTOM FLANGE, SPALL (26 INCHES LONG X 7 INCHES WIDE X UP TO 4 INCHES DEEP) WITH TWO (2) EXPOSED AND RUSTED PRESTRESSED STRANDS (80 PERCENT REMAINING)	3	3	3 Feet
<input checked="" type="checkbox"/>	109	Patched Area	NEW REPAIR: EAST FACE BOTTOM FLANGE 15 FEET SOUTH OF BENT 4, SPALL (26 INCHES LONG X 5 INCHES WIDE X UP TO 2.5 INCHES DEEP) WITH ONE EXPOSED PRESTRESSED STRANDS WITH LOSS UP TO 100 PERCENT ON MULTIPLE INDIVIDUAL STRANDS-PATCHED SINCE PREVIOUS INSPECTION 2023	2	3	Feet

General Comments

Span 4 Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	67	62	5	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LOCATIONS, HAIRLINE MAP CRACKING	2	3	Feet
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LOCATIONS, VERTICAL CRACKS (UP TO FULL HEIGHT X UP TO 1/32 INCH WIDE) SOME WRAPAROUND AND SOME EFFLORESCENCE	2	2	Feet

General Comments

Span 4 Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	67	64	3	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LOCATIONS, HAIRLINE MAP CRACKING	2	1	Feet
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LOCATIONS, VERTICAL CRACKS (UP TO FULL HEIGHT X UP TO 1/32 INCH WIDE) SOME WRAPAROUND AND SOME EFFLORESCENCE	2	2	Feet

General Comments

Span 4 Expansion Joint

Open Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
304	Open Expansion Joint	27	26	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 304	Adjacent Deck or Header	NEAR CENTERLINE AT BENT 3 JOINT ON SPAN 2 SIDE, SPALL (9 INCHES LONG X 12 INCHES WIDE X 1 INCH DEEP)	3	1	1 Feet

Span 5	Deck
Reinforced Concrete Deck	

Span 5	Beam 1
Prestressed Concrete Girder	

Span 5 **Beam 4**
Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestressed Concrete Open Girder/Beam	67	48	19	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 109	Patched Area	NEW REPAIRS: UNDERSIDE OF BOTTOM FLANGE AT 12 FEET (FOR 40 INCHES), AT 17 FEET (FOR 61 INCHES), AT 23 FEET (FOR 54 INCHES), AT 30 FEET (FOR 35 INCHES), AT 41 FEET (FOR 34 INCHES) FROM BENT 4, SPALLS (UP TO 14 INCHES X UP TO 2.75 INCHES DEEP) WITH MULTIPLE EXPOSED PRESTRESSED STRANDS, LOSS UP TO 100 PERCENT ON INDIVIDUAL STRANDS-ALL SPALLS HAVE BEEN PATCHED SINCE PREVIOUS INSPECTION 2023	2	19		Feet

General Comments

Left Bridge Rail

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	67	62	5	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LOCATIONS, HAIRLINE MAP CRACKING	2	3	Feet
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LOCATIONS, VERTICAL CRACKS (UP TO FULL HEIGHT X UP TO 1/32 INCH WIDE) SOME WRAPAROUND AND SOME EFFLORESCENCE	2	2	Feet

Span 5		Right Bridge Rail						
Concrete Railing								
Element Number		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331		Reinforced Concrete Bridge Railing		67	61	6	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LOCATIONS, HAIRLINE MAP CRACKING	2	2	Feet
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	ALONG LENGTH AT MULTIPLE LOCATIONS, VERTICAL CRACKS (UP TO FULL HEIGHT X UP TO 1/32 INCH WIDE) SOME WRAPAROUND AND SOME EFFL ORESCENCE	2	4	Feet

Span 5		Expansion Joint				
Open Joint						
Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
304	Open Expansion Joint	27	0	27	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 304	Debris Impaction	ALONG LENGTH, AREAS OF DEBRIS IMPACTION (FULL LENGTH) WITH VEGETATION GROWTH	2	27	Feet

Span 5		Northeast Delineator					
Delineator							
Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
602	Warning Signs		1	0	0	0	1 Each
Element Number	Defect Type	Defect Description			CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 602	General Condition	(PAR) NORTHEAST DELINEATOR IS LAYING ON GROUND			4	1	1 Each

General Comments

Cap 1

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	26	26	0	0	0	Feet
521	Concrete Protective Coating	80	80	0	0	0	Square Feet

General Comments

Pile 1

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
205	Reinforced Concrete Column	1	0	1	0	0 Each

General Comments

Cap 1

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	29	28	1	0	0	Feet
521	Concrete Protective Coating	50	50	0	0	0	Square Feet

General Comments

Cap 1

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	26	26	0	0	0	Feet
521	Concrete Protective Coating	80	80	0	0	0	Square Feet

General Comments

Bent 2**Pile 1****Reinforced Concrete Column**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column	1	0	1	0	0	Each
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input checked="" type="checkbox"/> 205	Abrasion/Wear (PSC/RC)	AT BASE OF COLUMN, ABRASION WITH EXPOSED AGGREGATE	2	1			Each
General Comments							

Bent 2**Pile 2****Reinforced Concrete Column**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column	1	0	1	0	0	Each
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input checked="" type="checkbox"/> 205	Abrasion/Wear (PSC/RC)	AT BASE OF COLUMN, ABRASION WITH EXPOSED AGGREGATE	2	1			Each
General Comments							

Bent 3**Cap 1****Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	26	20	4	2	0	Feet
521	Concrete Protective Coating	80	80	0	0	0	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input checked="" type="checkbox"/> 234	Delamination/Spall	KEEPER BLOCK AT SPAN 3 BEAM 1, SPALL (12 INCHES LONG X 9 INCHES HIGH X UP TO 4 INCHES DEEP)	3	1		1	Feet
<input checked="" type="checkbox"/> 234	Delamination/Spall	KEEPER BLOCK AT SPAN 3 BEAM 4, SPALL (UP TO 5 INCHES LONG X 8 INCHES WIDE X UP TO 2 INCHES DEEP)	3	1		1	Feet
<input checked="" type="checkbox"/> 234	Cracking (RC and Other)	UNDERSIDE BETWEEN COLUMNS, MULTIPLE TRANSVERSE CRACKS (8 INCHES LONG X HAIRLINE) SOME EXTEND UP TO VERTICAL FACE	2	4			Feet
<input checked="" type="checkbox"/> 234	Efflorescence/Rust Staining	LEAKAGE STAINING ALONG FACES OF CAP	2				Feet
General Comments							

Bent 3**Pile 1****Reinforced Concrete Column**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column	1	0	1	0	0	Each
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input checked="" type="checkbox"/> 205	Abrasion/Wear (PSC/RC)	AT BASE OF COLUMN, ABRASION WITH EXPOSED AGGREGATE	2	1			Each

Structure Number: **600229**Inspection Date: **10/17/2023**

<input checked="" type="checkbox"/>	205	Patched Area	NORTH AND WEST FACE AT MID-HEIGHT, TWO (2) SOUND PATCHES (UP TO 15 INCHES HIGH X 9 INCHES WIDE)	2	Each
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General Comments**Bent 3 Pile 2****Reinforced Concrete Column**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
205	Reinforced Concrete Column	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 205	Abrasion/Wear (PSC/RC)	AT BASE OF COLUMN, ABRASION WITH EXPOSED AGGREGATE	2	1	Each

General Comments**Bent 4 Cap 1****Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	26	22	4	0	0 Feet
521	Concrete Protective Coating	95	95	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 234	Cracking (RC and Other)	NORTH FACE OVER PILE 4, VERTICAL CRACK (6 INCHES HIGH X UP TO 1/32 INCH WIDE)	2	1	Feet
<input checked="" type="checkbox"/> 234	Efflorescence/Rust Staining	LEAKAGE STAINING ALONG FACES OF CAP	2		Feet
<input checked="" type="checkbox"/> 234	Patched Area	NEW REPAIR: NORTH FACE AT PILE 3, SPALL, (28 INCHES LONG X 9.5 INCHES HIGH X UP TO 3.5 INCHES DEEP) WITH EXPOSED RUSTED REINFORCING, NO LOSS NOTED-PATCHED SINCE PREVIOUS INSPECTION 2023	2	3	Feet

General Comments**Bent 4 Row 2 Pile 1****Steel Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
225	Steel Pile	1	0	0	0	1 Each
515	Steel Protective Coating	61	60	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 225	Corrosion	(PAR) NORTH FACE AT CAP, ACTIVE CORROSION WITH SECTION LOSS (FULL WIDTH X 1 INCH HIGH X 0.3125 INCH AVERAGE REMAINING)	4	1	1 Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	NORTH FACE AT CAP, FAILED COATING	4	1	1 Square Feet

General Comments

Bent 4

Row 2 Pile 3

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	0	0	0	1	Each
515	Steel Protective Coating	61	61	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 225	Corrosion	(PAR) TOP NORTH FACE AT CAP, ARRESTED CORROSION WITH SECTION LOSS (FULL WIDTH X UP TO 2 INCHES HIGH X 0.25 INCH AVERAGE REMAINING)	4	1	1	Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	TOP NORTH FACE AT CAP, FAILED COATING-PAINTED OVER	1			Square Feet

General Comments

Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Deck	Single Point Urban Interchange Deck	Reinforced Concrete Deck	2000
Span 1	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	43
Span 1	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	42
Span 1	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	41
Span 1	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	41
Span 1	Beam 5	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	41
Span 1	Beam 6	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	42
Span 1	Beam 7	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	43
Span 1	Beam 8	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	45
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	41
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	41
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1776
Span 2	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 2	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 2	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 2	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	67
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	67
Span 2	Expansion Joint	Open Joint	Open Expansion Joint	27
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1776
Span 3	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67

Elements Verified

Location	Name	Component	Element Name	Amount
Span 3	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 3	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 3	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	67
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	67
Span 3	Expansion Joint	Open Joint	Open Expansion Joint	27
Span 3	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 3	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1776
Span 4	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 4	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 4	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 4	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 4	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	67
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	67
Span 4	Expansion Joint	Open Joint	Open Expansion Joint	27
Span 4	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 4	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 5	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1776
Span 5	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 5	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 5	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 5	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	67
Span 5	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	67
Span 5	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	67
Span 5	Expansion Joint	Open Joint	Open Expansion Joint	27
Span 5	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 5	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 5	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 5	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 5	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 5	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 5	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1

Elements Verified

Location	Name	Component	Element Name	Amount
Span 5	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 5	Northwest Delineator	Delineator	Warning Signs	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	26
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	68
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	80
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	26
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	29
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	26
Bent 3	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 4	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	26
Bent 4	Row 1 Pile 1	Steel Pile	Steel Pile	1
Bent 4	Row 2 Pile 1	Steel Pile	Steel Pile	1
Bent 4	Row 2 Pile 2	Steel Pile	Steel Pile	1
Bent 4	Row 1 Pile 2	Steel Pile	Steel Pile	1
Bent 4	Row 1 Pile 3	Steel Pile	Steel Pile	1
Bent 4	Row 2 Pile 3	Steel Pile	Steel Pile	1
Bent 4	Row 2 Pile 4	Steel Pile	Steel Pile	1
Bent 4	Row 1 Pile 4	Steel Pile	Steel Pile	1

General Inspection Notes

Span 5

Northwest Delineator

NORTHWEST DELINEATOR HAS BEEN INSTALLED SINCE PREVIOUS INSPECTION 2023

National Bridge and NC Inspection Items

Structure Number: 600229

Inspection Date: 10/17/2023

National Bridge Inventory Items

Item	Grade Scale	Grade	Note: Items 58,59,60,62 reflect this inspection only. For overall NBI coding grade, see cover sheet.
Item 58: Deck	0 - 9 , N	7	
Item 59: Superstructure	0 - 9 , N	6	
Item 60: Substructure	0 - 9 , N	7	
Item 61: Channel and Channel Protection	0 - 9 , N	7	
Item 62: Culvert	0 - 9 , N	N	
Item 71: Waterway Adequacy	0 - 9 , N	7	
Item 72: Approach Roadway Alignment	0 - 9 , N	8	

Note: If NBI Inspection Item is not present, code NBI item with "N"

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	G	0	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	G	0	3352
Scour	G, F, P, or C	G		
Wingwall	G, F, P, or C	G	0	3350
Field Scour Evaluation		L		
Drift	G, F, P, or C	F	2	3366
Fender System	G, F, P, or C			
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Superstructure Paint Code				

Note: If NC SMU Inspection Item is not present, leave NC SMU item blank

Inspection Information

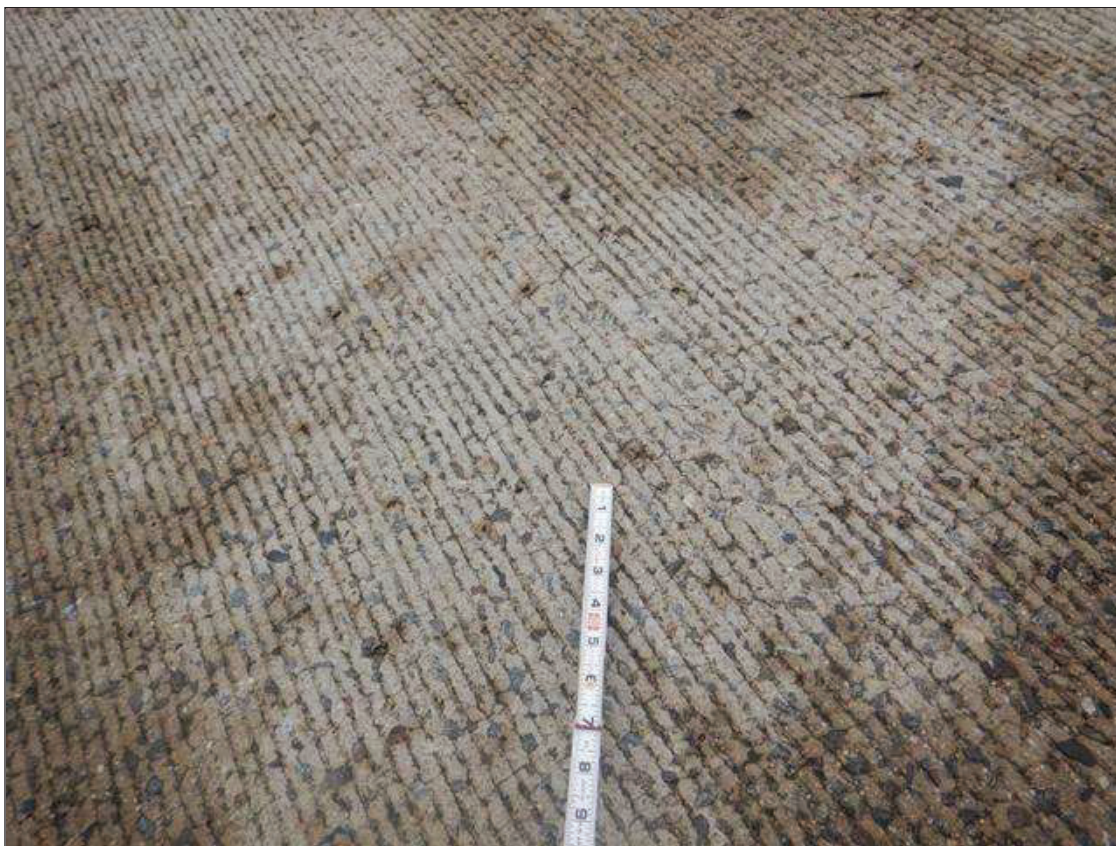
Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	Y
Priority Maintenance Request Submitted	YES/NO	Y
Inspection Time	Hours	8
Traffic Control Time	Hours	6
Snooper Time	Hours	5
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N
Portion of Structure in > 3' of water	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 600229

Inspection Date: 10/17/2023

Item	Substructure - Item 60	Grade	7	Maint Code	Qty.	0	
Details	SUBSTRUCTURE DOWNGRADED TO GOOD CONDITION "NBI RATING 7" DUE CORROSION WITH SECTION LOSS ON PILES						
Item	Drift	Grade	F	Maint Code	3366	Qty.	2
Details	AT SOUTHEAST FACE OF BENT 3, DRIFT ACCUMULATION (2 FEET LONG X 4 FEET WIDE X UP TO 1 FOOT HIGH)						
Item	General Comments and Misc Items	Grade		Maint Code	Qty.	0	
Details	SOUTHEAST GUARDRAIL NEAR SOUTH APPROACH, SCRAPE MARKS (10 FEET LONG) ALONG RIGHT OVERHANG AT SPANS 4 AND 5, VEGETATION GROWTH THROUGHOUT BOTH APPROACH ROADWAYS, MAP CRACKING (UP TO 1/8 INCH WIDE) NORTHWEST DELINEATOR HAS BEEN REPAIRED SINCE PREVIOUS INSPECTION 2023						



Span 2 Deck: HAIRLINE MAP CRACKING THROUGHOUT



Span 2 Beam 4: WEST FACE OF WEB AT BENT 1, SPALL (11 INCHES LONG X 3 INCHES HIGH X 3/4 INCH DEEP) WITH ADJACENT DELAMINATION (11 INCHES LONG X 4 INCHES HIGH)



Span 2 Beam 4: WEST FACE OF WEB AT BENT 2, SPALL (4 INCHES LONG X 10 INCHES HIGH X 1 INCH DEEP) WITH ADJACENT DELAMINATION (10 INCHES LONG X 12 INCHES HIGH)



Span 2 Left Bridge Rail: ALONG LENGTH AT MULTIPLE LOCATIONS, VERTICAL CRACKS (UP TO FULL HEIGHT X UP TO 1/32 INCH WIDE) SOME WRAPAROUND AND SOME EFFLORESCENCE



Span 3 Expansion Joint: NEAR CENTERLINE AT BENT 2 JOINT ON SPAN 2 SIDE, SPALL (4 INCHES LONG X 12 INCHES WIDE X 2 INCHES DEEP)



Span 3 Beam 3: END DIAPHRAGM AT BAY 3 BENT 2, SPALL WITH EXPOSED REBAR (4 INCH DIAMETER X 1/2 INCH DEEP) WITH EXPOSED REBAR (90 PERCENT REMAINING)



Span 4 Beam 1: (PAR) AT 24 FEET FROM BENT 3, UNDERSIDE OF BOTTOM FLANGE, SPALL (20 INCHES LONG X UP TO 18 INCHES WIDE X UP TO 1 INCH DEEP) WITH TWO (2) EXPOSED AND RUSTED PRESTRESSED STRANDS (75 PERCENT REMAINING)



Span 4 Beam 4: NEW REPAIR: EAST FACE BOTTOM FLANGE 15 FEET SOUTH OF BENT 4, SPALL (26 INCHES LONG X 5 INCHES WIDE X UP TO 2.5 INCHES DEEP) WITH ONE EXPOSED PRESTRESSED STRANDS WITH LOSS UP TO 100 PERCENT ON MULTIPLE INDIVIDUAL STRANDS-PATCHED SINCE PREVIOUS INSPECTION 2023



Span 4 Beam 4: (PAR) AT 12 FEET FROM BENT 3, EAST FACE OF BOTTOM FLANGE, SPALL (26 INCHES LONG X 7 INCHES WIDE X UP TO 4 INCHES DEEP) WITH TWO (2) EXPOSED AND RUSTED PRESTRESSED STRANDS (80 PERCENT REMAINING)



Span 5 Beam 1: NEW REPAIR: UNDERSIDE BOTTOM FLANGE AT 14 FEET FROM BENT 4, SPALL (20 INCHES LONG X 14 INCHES WIDE X UP TO 1.5 INCH DEEP) WITH MULTIPLE EXPOSED PRESTRESS STRANDS, LOSS UP TO 100 PERCENT ON INDIVIDUAL STRANDS-PATCHED SINCE PREVIOUS INSPECTION 2023



Span 5 Beam 4: NEW REPAIRS: UNDERSIDE OF BOTTOM FLANGE AT 12 FEET (FOR 40 INCHES), AT 17 FEET (FOR 61 INCHES), AT 23 FEET (FOR 54 INCHES), AT 30 FEET (FOR 35 INCHES), AT 41 FEET (FOR 34 INCHES) FROM BENT 4, SPALLS (UP TO 14 INCHES X UP TO 2.75 INCHES DEEP) WITH MULTIPLE EXPOSED PRESTRESSED STRANDS, LOSS UP TO 100 PERCENT ON INDIVIDUAL STRANDS-ALL SPALLS HAVE BEEN PATCHED SINCE PREVIOUS INSPECTION 2023



Span 5 Beam 4: NEW REPAIRS: UNDERSIDE OF BOTTOM FLANGE AT 12 FEET (FOR 40 INCHES), AT 17 FEET (FOR 61 INCHES), AT 23 FEET (FOR 54 INCHES), AT 30 FEET (FOR 35 INCHES), AT 41 FEET (FOR 34 INCHES) FROM BENT 4, SPALLS (UP TO 14 INCHES X UP TO 2.75 INCHES DEEP) WITH MULTIPLE EXPOSED PRESTRESSED STRANDS, LOSS UP TO 100 PERCENT ON INDIVIDUAL STRANDS-ALL SPALLS HAVE BEEN PATCHED SINCE PREVIOUS INSPECTION 2023



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Span 5 Beam 4: NEW REPAIRS: UNDERSIDE OF BOTTOM FLANGE AT 12 FEET (FOR 40 INCHES), AT 17 FEET (FOR 61 INCHES), AT 23 FEET (FOR 54 INCHES), AT 30 FEET (FOR 35 INCHES), AT 41 FEET (FOR 34 INCHES) FROM BENT 4, SPALLS (UP TO 14 INCHES X UP TO 2.75 INCHES DEEP) WITH MULTIPLE EXPOSED PRESTRESSED STRANDS, LOSS UP TO 100 PERCENT ON INDIVIDUAL STRANDS-ALL SPALLS HAVE BEEN PATCHED SINCE PREVIOUS INSPECTION 2023



Bent 2 Pile 1: AT BASE OF COLUMN, ABRASION WITH EXPOSED AGGREGATE



Bent 3 Cap 1: KEEPER BLOCK AT SPAN 3 BEAM 1, SPALL (12 INCHES LONG X 9 INCHES HIGH X UP TO 4 INCHES DEEP)



Bent 3 Cap 1: KEEPER BLOCK AT SPAN 3 BEAM 4, SPALL (UP TO 5 INCHES LONG X 8 INCHES WIDE X UP TO 2 INCHES DEEP)



Bent 3 Cap 1: UNDERSIDE BETWEEN COLUMNS, MULTIPLE TRANSVERSE CRACKS (8 INCHES LONG X HAIRLINE) SOME EXTEND UP TO VERTICAL FACE



Bent 4 Cap 1: NEW REPAIR: NORTH FACE AT PILE 3, SPALL, (28 INCHES LONG X 9.5 INCHES HIGH X UP TO 3.5 INCHES DEEP) WITH EXPOSED RUSTED REINFORCING, NO LOSS NOTED-PATCHED SINCE PREVIOUS INSPECTION 2023



Bent 4 Row 2 Pile 1: (PAR) NORTH FACE AT CAP, ACTIVE CORROSION WITH SECTION LOSS (FULL WIDTH X 1 INCH HIGH X 0.3125 INCH AVERAGE REMAINING)



Bent 4 Row 2 Pile 3: (PAR) TOP NORTH FACE AT CAP, ARRESTED CORROSION WITH SECTION LOSS (FULL WIDTH X UP TO 2 INCHES HIGH X 0.25 INCH AVERAGE REMAINING)



Bent 4 Cap 1: NORTH FACE OVER PILE 4, VERTICAL CRACK (6 INCHES HIGH X UP TO 1/32 INCH WIDE)



Drift: AT SOUTHEAST FACE OF BENT 3, DRIFT ACCUMULATION (2 FEET LONG X 4 FEET WIDE X UP TO 1 FOOT HIGH)



Guardrails: SOUTHEAST GUARDRAIL NEAR SOUTH APPROACH, SCRAPE MARKS (10 FEET LONG)



General: ALONG RIGHT OVERHANG AT SPANS 4 AND 5, VEGETATION GROWTH



Span 5 Northeast Delineator: (PAR) NORTHEAST DELINEATOR IS LAYING ON GROUND

Stream Bed Soundings

(Profile diagram on following sheet)

County **MITCHELL**

Structure Number: **600229**

Sounding Date **10/17/2023**

Sounding recorded from: **Top of Bridge Rail**

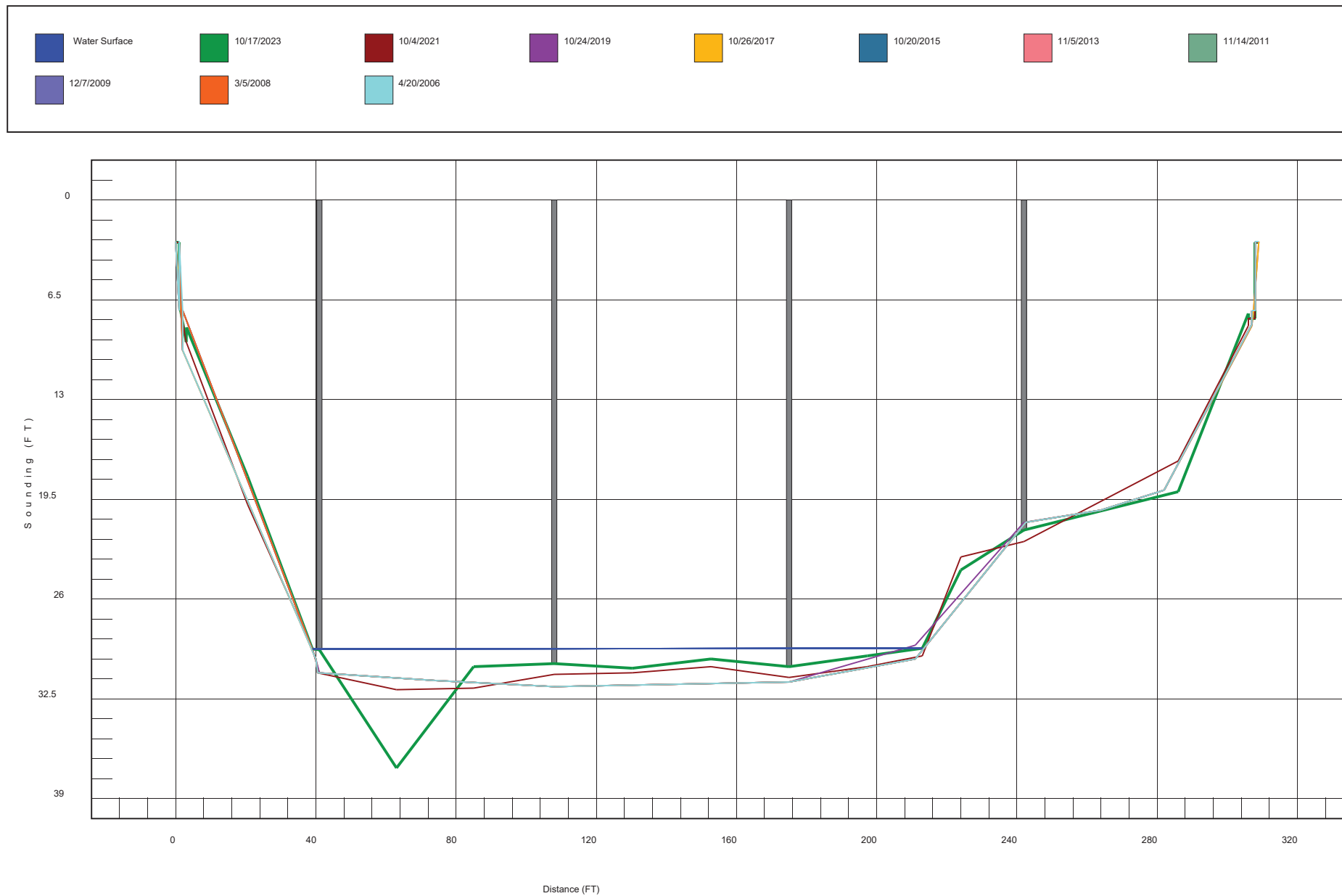
Highwater Mark Distance

Location of Highwater Mark **NONE**

Distance (Station) ft.	Downstream Sounding ft.	Upstream Sounding ft.	Description
0.000	2.750	0.000	FILL FACE
1.000	2.750	0.000	FACE OF CAP
1.010	6.700	0.000	CAP AT BACKWALL
3.000	9.250	0.000	FACE OF CAP
3.100	8.300	7.900	GROUND AT CAP
20.500	18.000	0.000	SLOPE
39.000	29.250	0.000	WSWE
41.000	29.300	27.900	BENT 1
63.000	37.000	0.000	STREAMBED
85.000	30.400	0.000	STREAMBED
108.000	30.200	30.500	BENT 2
130.300	30.500	0.000	STREAMBED
152.700	29.900	0.000	STREAMBED
175.000	30.400	30.200	BENT 3
197.300	29.700	0.000	STREAMBED
213.000	29.200	0.000	WSWE
224.000	24.100	0.000	SLOPE
242.000	21.500	22.800	BENT 4
286.000	19.000	0.000	SLOPE
305.990	7.400	7.300	GROUND AT CAP
306.000	7.700	0.000	FACE OF CAP
307.990	7.700	0.000	CAP AT BACKWALL
308.000	2.750	0.000	FACE OF BACKWALL
309.000	2.750	0.000	FILL FACE

STREAMBED PROFILE (Downstream)

Top of Rail = 0FT (Sounding)

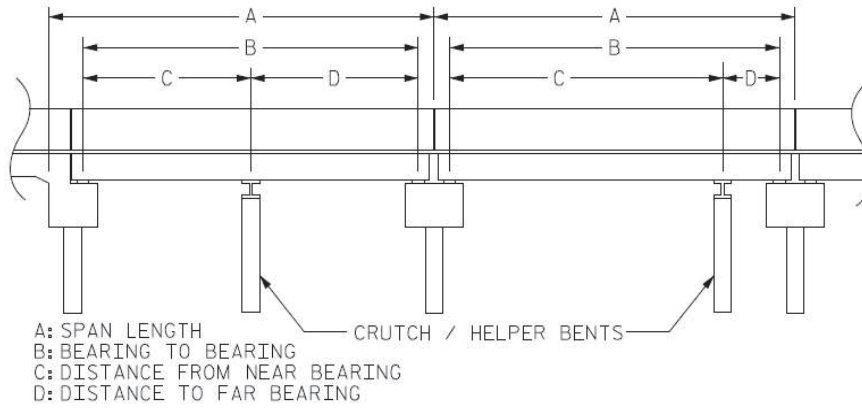


Structure Data Worksheet

Span Profile

County: **MITCHELL**

Structure Number: **600229**



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	41.000	38.500			
2	67.000	65.500			
3	67.000	65.500			
4	67.000	65.500			
5	67.000	64.500			

Bridge Inspection Field Sketch

SR1357

Roadway	182ft Wide		Looking North
Left Shoulder	9ft Wide	9ft Paved	
Right Shoulder	9ft Wide	9ft Paved	
Left Guardrail			
Right Guardrail			

MEASUREMENTS TAKEN AT 50 FEET EAST OF INTERSECTION AT SOUTH END

MEASUREMENTS VERIFIED BY MW ON 10/17/23

Title
APPROACH ROADWAY SKETCH

Description
SUPERSTRUCTURE

Structure No: 600229

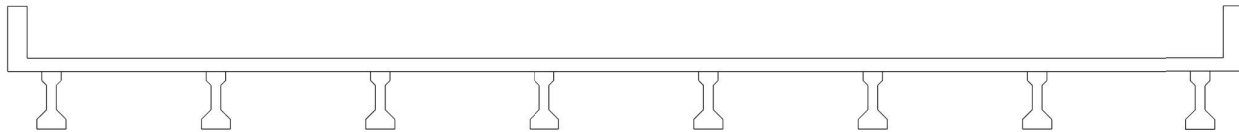
Drawn By: ZK

Date: 10/27/2023

Filename: S001170000429.wes

Bridge Inspection Field Sketch

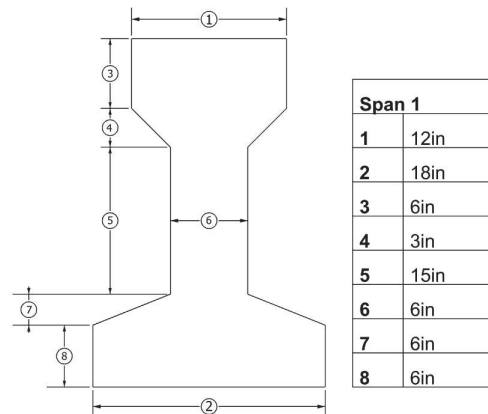
Deck Width/Out to Out	63.667ft	Between Rails	60.33ft
Clear Roadway	60.333ft	Wearing Surface	
Median Width		Median Height	
Curb Height		Left	Right
Sidewalk Width		Left	Right
Clear Roadway (Rail to Median)		Left	Right
Guardrail Width		Left	Right
Top of Rail to Deck/Wearing Surface		Left	Right
Bridge Rail Type		Left	Right



Measurements for Span #	1		
Deck Thickness	8.00in	Left Overhang	2.25ft
Top of Rail to Bottom of Beam (Avg)	6.500ft	Right Overhang	2.25ft

Beam #	Beam Type	Width	Height	Spacing	From
1	Prestressed Concrete Girder	18in	36in	2.25ft	Left Edge of Deck
2	Prestressed Concrete Girder	18in	36in	8.458ft	Beam 1
3	Prestressed Concrete Girder	18in	36in	8.458ft	Beam 2
4	Prestressed Concrete Girder	18in	36in	8.458ft	Beam 3
5	Prestressed Concrete Girder	18in	36in	8.458ft	Beam 4
6	Prestressed Concrete Girder	18in	36in	8.458ft	Beam 5
7	Prestressed Concrete Girder	18in	36in	8.458ft	Beam 6
8	Prestressed Concrete Girder	18in	36in	8.458ft	Beam 7

NOTE: MEASUREMENT TAKEN AT NEAR END OF SPAN. SPAN 1 IS FLARED AND NARROWS AT FAR END

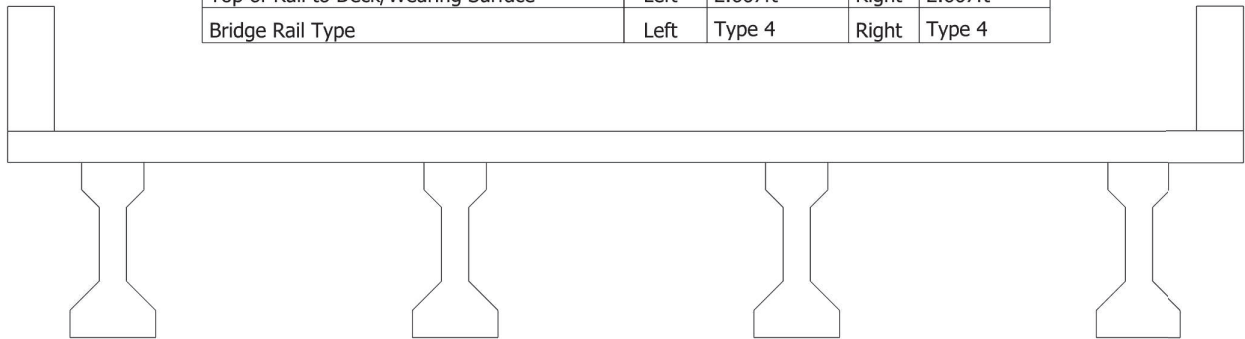


MEASUREMENTS VERIFIED BY MW ON 10/17/23

Title TYPICAL SECTION (SPAN 1)		Description SUPERSTRUCTURE	
Structure No: 600229	Drawn By: ZK	Date: 10/27/2023	Filename: S001170000430.wes

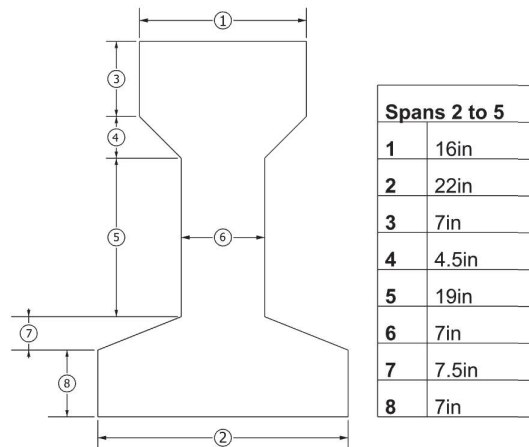
Bridge Inspection Field Sketch

Deck Width/Out to Out	26.5ft	Between Rails		24.667ft
Clear Roadway	24ft	Wearing Surface		
Median Width		Median Height		
Curb Height		Left		Right
Sidewalk Width		Left		Right
Clear Roadway (Rail to Median)		Left		Right
Guardrail Width		Left	15in	Right 15in
Top of Rail to Deck/Wearing Surface		Left	2.667ft	Right 2.667ft
Bridge Rail Type		Left	Type 4	Right Type 4



Measurements for Span #	2 to 5		
Deck Thickness	8.00in	Left Overhang	2.25ft
Top of Rail to Bottom of Beam (Avg)	7.250ft	Right Overhang	2.25ft

Beam #	Beam Type	Width	Height	Spacing	From
1	Prestressed Concrete Girder	22in	45in	2.25ft	Left Edge of Deck
2	Prestressed Concrete Girder	22in	45in	7.33ft	Beam 1
3	Prestressed Concrete Girder	22in	45in	7.33ft	Beam 2
4	Prestressed Concrete Girder	22in	45in	7.33ft	Beam 3



MEASUREMENTS VERIFIED BY MW ON 10/17/23

Title
TYPICAL SECTION (SPANS 2 TO 5)

Description
SUPERSTRUCTURE

Structure No: 600229

Drawn By: ZK

Date: 10/27/2023

Filename: S001170000431.wes

Bridge Inspection Field Sketch



Caps

#	Name	Type	Length	Width	Height	Left Beam to End of Cap	Right Beam to End of Cap
1	Cap 1	Reinforced Concrete Pier Cap	25.5ft	36in	24in	2ft	2.040ft

Piles

#	Name	Type	Spacing	From	Height/Diam.	Width	Length
1	Pile 1	Reinforced Concrete Column	4.5ft	Left End of Bent	36in		23ft
2	Pile 2	Reinforced Concrete Column	16.5ft	Pile 1	36in		23ft

MEASUREMENTS VERIFIED BY MW ON 10/17/23

Title
INTERIOR BENTS (1 TO 3)

Description
SUBSTRUCTURE

Structure No: 600229

Drawn By: ZK

Date: 10/27/2023

Filename: S001170000432.wes

Bridge Inspection Field Sketch



Caps							
#	Name	Type	Length	Width	Height	Left Beam to End of Cap	Right Beam to End of Cap
1	Cap 1	Reinforced Concrete Pier Cap	26.2ft	44in	33in	2ft	1.970ft
Piles							
#	Name	Type	Spacing	From	Height/Diam.	Width	Length
1	Row 2 Pile 1	Steel Pile	1.5ft	Left End of Bent	12.65in		10ft
1	Row 1 Pile 1	Steel Pile	1.5ft	Left End of Bent	12.65in		10ft
2	Row 2 Pile 2	Steel Pile	8.167ft	Row 2 Pile 1	12.65in		10ft
2	Row 1 Pile 2	Steel Pile	8.167ft	Row 1 Pile 1	12.65in		10ft
3	Row 2 Pile 3	Steel Pile	7.417ft	Row 2 Pile 2	12.65in		10ft
3	Row 1 Pile 3	Steel Pile	7.417ft	Row 1 Pile 2	12.65in		10ft
4	Row 2 Pile 4	Steel Pile	7.583ft	Row 2 Pile 3	12.65in		10ft
4	Row 1 Pile 4	Steel Pile	7.583ft	Row 1 Pile 3	12.65in		10ft

MEASUREMENTS VERIFIED BY MW ON 10/17/23

Title INTERIOR BENT 4			Description SUBSTRUCTURE		
Structure No: 600229	Drawn By: ZK		Date: 10/27/2023	Filename: S001170000433.wes	



LOOKING SOUTH



LOOKING NORTH



WEST PROFILE



NORTH APPROACH



SOUTH APPROACH



LOOKING UPSTREAM (EAST) FROM TOP OF BRIDGE



LOOKING DOWNSTREAM (WEST) FROM TOP OF BRIDGE



EAST PROFILE



TRAFFIC SETUP



HYDRAPLATFORM USED



BENT 2 PROFILE



TYPICAL INTERMEDIATE DIAPHRAGM



BENT 1 PROFILE



TYPICAL END DIAPHRAGM



TYPICAL BEAM OVER CAP



LOOKING UPSTREAM (EAST) FROM UNDER BRIDGE



BENT 3 PROFILE



LOOKING DOWNSTREAM (WEST) FROM UNDER BRIDGE



TYPICAL BEARING (BENT 3 BEAM 3 IN VIEW)



BENT 4 PROFILE



END BENT 2 PROFILE AND SLOPE PROTECTION



NORTHWEST WINGWALL



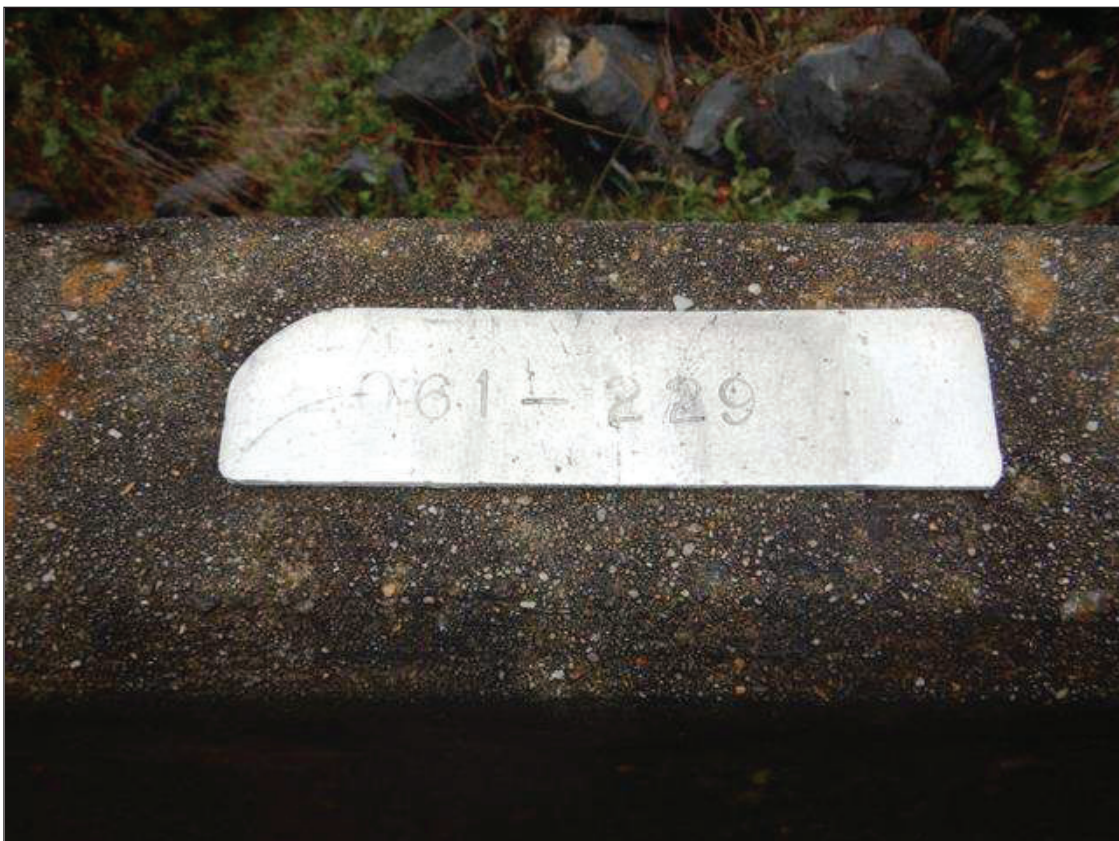
SOUTHEAST END TERMINAL



TYPICAL POST SPACING



TYPICAL GUARDRAIL TO BRIDGE RAIL CONNECTION



BRIDGE IDENTIFICATION NUMBER



END BENT 1 PROFILE



EN DBENT 1 SLOPE PROTECTION



JOINT OVER BENT 1



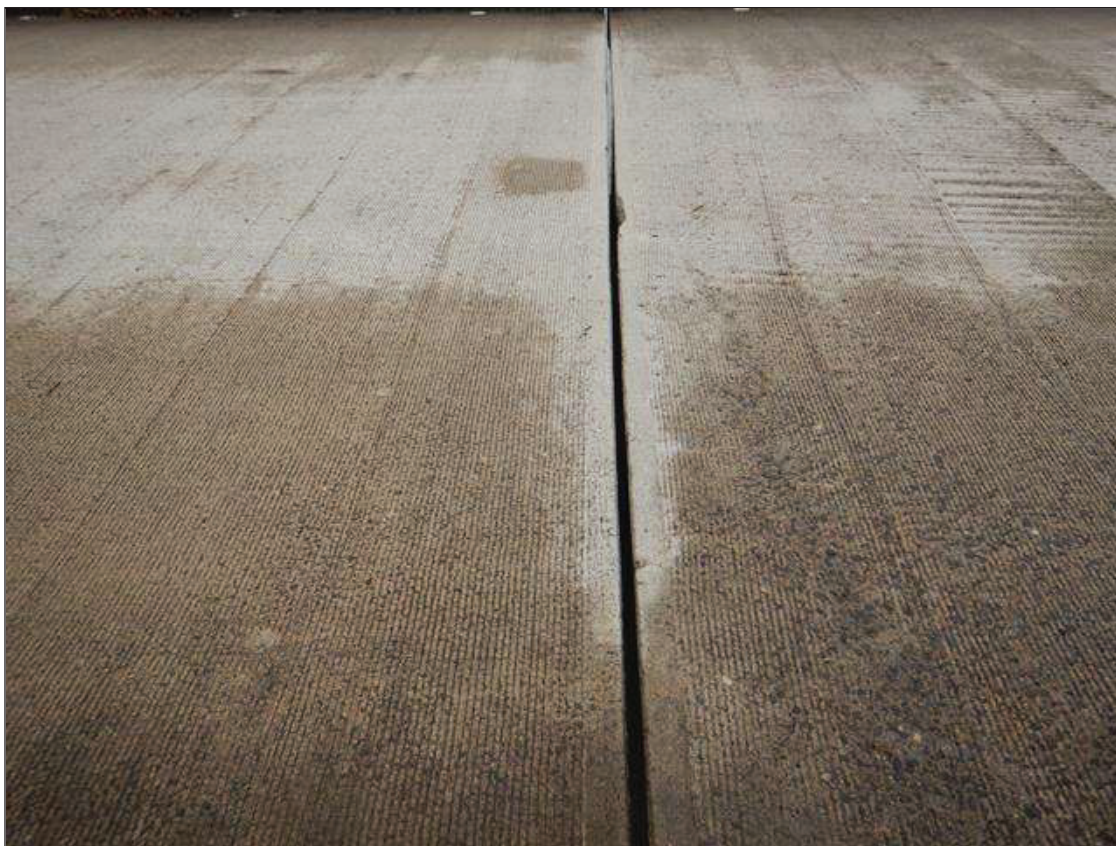
LEFT BRIDGE RAIL



RIGHT BRIDGE RAIL



TYPICAL TOP OF DECK SURFACE



JOINT OVER BENT 2



JOINT OVER BENT 3



JOINT OVER BENT 4



JOINT OVER OVER END BENT 2



SOUTHWEST DELINEATOR



SUPERSTRUCTURE AT SPAN 1



TYPICAL SUPERSTRUCTURE AT SPANS 2 TO 5 (SPAN 5 IN VIEW)