



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 STRUCTURE MANAGEMENT UNIT

ATTENTION: **prompt action request, sketches revised, clearances revised, newly structurally deficient**

Structure Safety Report

Routine Element Inspection - Contract

STRUCTURE NUMBER: 110154 SAP STRUCTURE NO: 0120154 FHWA STRUCTURE NO: 00000000230154

DIVISION: 13 COUNTY: BURKE INSPECTION DATE: 08/09/2023 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1001 MILE POST: _____

LOCATION: .2 MI.S.JCT.SR1740

FEATURE INTERSECTED: I-40

LATITUDE: 35° 44' 1.67" LONGITUDE: 81° 31' 49.44"

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON I-BEAMS

SUBSTRUCTURE: E.BTS:RC CAPS/H-PILES;INT.BTS:REINFORCED CONC. POST&BEAM

SPANS: 4 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

FRACTURE CRITICAL TEMPORARY SHORING SCOUR CRITICAL SCOUR PLAN OF ACTION

GRADES: (Inspector/NBI Coding) DECK 4/4 SUPERSTRUCTURE 5/5 SUBSTRUCTURE 5/5 CULVERT N/N

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: none



Sign noticed issued for	Number Required
<u>NO</u> WEIGHT LIMIT	<u>0</u>
<u>NO</u> DELINEATORS	<u>0</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 _____

south approach looking north

INSPECTED BY Chris Perry	SIGNATURE 	ASSISTED BY Isaiah Chapman
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NATIONAL BRIDGE INVENTROY ----- STRUCTURE INVENTORY AND APPRAISAL

11/01/2023

IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE 110154
 (8) STRUCTURE NUMBER (FEDERAL) 0230154
 (5) INVENTORY ROUTE (ON/UNDER) ON 31010010
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 13
 (3) COUNTY CODE (FEDERAL) 23 (4) PLACE CODE 14280
 (6) FEATURE INTERSECTED I-40
 (7) FACILITY CARRIED SR1001
 (9) LOCATION .2 M.I.S.JCT.SR1740
 (11) MILEPOINT 0.0
 (12) BASE HIGHWAY NETWORK 0
 (13) LRS INVENTORY ROUTE & SUBROUTE 0
 (16) LATITUDE 35° 44' 1.67" (17) LONGITUDE 81° 31' 49.44"
 (98) BORDER BRIDGE STATE CODE PERCENT SHARED
 (99) BORDER BRIDGE STRUCTURE NUMBER

SUFFICIENCY RATING 63.32
 STATUS = Structurally Deficient

CLASSIFICATION **CODE**

(112) NBIS BRIDGE SYSTEM Y
 (104) HIGHWAY SYSTEM Inventory Route not on NHS 0
 (26) FUNCTIONAL CLASS Urban Minor Collector 16
 (100) STRAHNET HIGHWAY Not a STRAHNET Route 0
 (101) PARALLEL STRUCTURE 0
 (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 Steel
 TYPE Stringer/Multi-beam or girder CODE 302
 (44) STRUCTURE TYPE APPROACH
 TYPE CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 4
 (46) NUMBER OF SPANS IN APPROACH 0
 (107) DECK STRUCTURE TYPE CODE 1
 (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 4
 (59) SUPERSTRUCTURE 5
 (60) SUBSTRUCTURE 5
 (61) CHANNEL & CHANNEL PROTECTION N
 (62) CULVERTS N

LOAD RATING AND POSTING **CODE**

(31) DESIGN LOAD H 15 2
 (63) OPERATING RATING METHOD - Load Factor 1
 (64) OPERATING RATING - HS-39 70
 (65) INVENTORY RATING METHOD - 1
 (66) INVENTORY RATING HS-23 41
 (70) BRIDGE POSTING No Posting Required 5
 (41) STRUCTURE OPEN, POSTED, OR CLOSED DESCRIPTION Open, no restriction A

AGE AND SERVICE

(27) YEAR BUILT 1956
 (106) YEAR RECONSTRUCTED 0
 (42) TYPE OF SERVICE ON - Overpass Structure
 OFF - Highway CODE 61
 (28) LANES ON STRUCTURE 2 LANES UNDER STRUCTURE 8
 (29) AVERAGE DAILY TRAFFIC 15000
 (30) YEAR OF ADT 2019 (109) TRUCK ADT PCT 6
 (19) BYPASS OR DETOUR LENGTH 2.0

APPRAISAL **CODE**

(67) STRUCTURAL EVALUATION 5
 (68) DECK GEOMETRY N
 (69) UNDERCLEARANCES, VERT & HORIZ 3
 (71) WATERWAY ADEQUACY N
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES N
 (113) SCOUR CRITICAL BRIDGES N

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 75.0
 (49) STRUCTURE LENGTH 270.0
 (50) CURB OR SIDEWALK: LEFT 1.7 RIGHT 1.7
 (51) BRIDGE ROADWAY WIDTH, CURB TO CURB 26.0
 (52) DECK WIDTH OUT TO OUT 31.5
 (32) APPROACH ROADWAY WITH (W/ SHOULDERS) 26.0
 (33) BRIDGE MEDIAN CODE 5
 (34) SKEW 49 (35) STRUCTURE FLARED 0111
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 0.0
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9
 (54) MIN VERT UNDERCLEAR: REFERENCE H 14.6
 (55) MIN LAT UNDERCLEARANCE RT: REFERENCE H 9.1
 (56) MIN LAT UNDERCLEARANCE LT: 13.3

PROPOSED IMPROVEMENTS

(75) TYPE OF WORK CODE
 (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 30,000 YEAR OF FUTURE ADT 2040

NAVIGATION DATA

(38) NAVIGATION CONTROL - CODE 5
 (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 08/23 (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

Span Number	Facility Carried	Inventory Route	Maximum Minimum Vertical Clearance	Milepoint	Base Highway	LRS Inventory Route	Functional Classification	Number of Lanes	Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	See Note Below					STRAHNET Highway	Direction of Traffic	National Highway System	National Truck Network
												Reference Feature	Minimum Vertical Underclearance	Righth Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade				
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
2	I 40 EBL	11000400	15.4	112.5	1	10040	11	2	23500	2015	41.1	H	15.4	9.3	13.3	3		1	<input type="checkbox"/>	<input type="checkbox"/>
3	I 40 WBL	11000400	14.9	112.5	1	10040	11	2	23500	2015	42.2	H	14.6	9.8	14.0	3		1	<input type="checkbox"/>	<input type="checkbox"/>

Note: Items 54, 55, and 56 are not reported FHWA under route data points but are collected for each under route to determine the minimum value for Underclearance Appraisal Item 69.

Superstructure Build Details

Span Number 1

Span Length 58.500

Skew 41.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1726 Square Feet		
4	Plate Girder	Steel Open Girder/Beam	232 Feet	Legacy Non Lead Primer System with various Topcoats	2264
4	Movable Bearing	Movable Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
2	Concrete Railing	Reinforced Concrete Bridge Railing	118 Feet		
4	Fixed Bearing	Fixed Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4

Span Number 2

Span Length 76.420

Skew 41.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
4	Fixed Bearing	Fixed Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
4	Movable Bearing	Movable Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
1	Compression Seal	Compression Joint Seal	40 Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	2255 Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	154 Feet		
4	Plate Girder	Steel Open Girder/Beam	308 Feet	Legacy Non Lead Primer System with various Topcoats	2984

Span Number 3

Span Length 76.580

Skew 41.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
4	Plate Girder	Steel Open Girder/Beam	308 Feet	Legacy Non Lead Primer System with various Topcoats	3008
1	Reinforced Concrete Deck	Reinforced Concrete Deck	2260 Square Feet		
1	Compression Seal	Compression Joint Seal	40 Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	154 Feet		
4	Fixed Bearing	Fixed Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
4	Movable Bearing	Movable Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4

Span Number 4

Span Length 58.500

Skew 41.000

Superstructure Build Details

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
2	Concrete Railing	Reinforced Concrete Bridge Railing	118 Feet		
1	Compression Seal	Compression Joint Seal	40 Feet		
4	Fixed Bearing	Fixed Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1726 Square Feet		
4	Plate Girder	Steel Open Girder/Beam	232 Feet	Legacy Non Lead Primer System with various Topcoats	2264
4	Movable Bearing	Movable Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4

Structure Element Scoring

Structure Number: 110154

Inspection Date 8/9/2023

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	7,967	472	6	7,489	0
107		Steel Open Girder/Beam	Beam	1,080	895	135	10	40
515	107	Steel Protective Coating	Beam	10,520	10,349	125	32	14
205		Reinforced Concrete Column	Piles and Columns	9	2	3	4	0
215		Reinforced Concrete Abutment	Abutments	118	110	0	8	0
220		Reinforced Concrete Pile Cap/Footing	Footing	18	18	0	0	0
225		Steel Pile	Piles and Columns	12	12	0	0	0
234		Reinforced Concrete Pier Cap	Caps	216	120	11	85	0
302		Compression Joint Seal	Expansion Joints	120	55	24	41	0
311		Movable Bearing	Bearing Device	16	0	3	11	2
515	311	Steel Protective Coating	Bearing Device	16	0	0	3	13
313		Fixed Bearing	Bearing Device	16	3	7	6	0
515	313	Steel Protective Coating	Bearing Device	16	3	1	8	4
331		Reinforced Concrete Bridge Railing	Bridge Rail	544	451	50	43	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **110154**

Inspection Date: **08/09/2023**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Patched Areas	530 Square Feet
3326	Reinforced Concrete Deck	Cracking (RC and Other)	9029 Square Feet
3326	Reinforced Concrete Deck	Delamination/Spall	141 Square Feet
3326	Reinforced Concrete Deck	Efflorescence/Rust Staining	20 Square Feet
3326	Reinforced Concrete Deck	Exposed Rebar	2 Square Feet
3314	Steel Open Girder/Beam	Corrosion	42 Feet
3314	Steel Open Girder/Beam	Distortion	8 Feet
3348	Reinforced Concrete Column	Patched Area	1 Each
3348	Reinforced Concrete Column	Delamination/Spall	12 Each
3348	Reinforced Concrete Column	Cracking (RC and Other)	6 Each
3350	Reinforced Concrete Abutment	Delamination/Spall	8 Feet
3348	Reinforced Concrete Pier Cap	Patched Area	13 Feet
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	84 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	30 Feet
3310	Compression Joint Seal	Adjacent Deck or Header	19 Feet
3334	Movable Bearing	Connection	2 Each
3334	Movable Bearing	Corrosion	11 Each
3334	Fixed Bearing	Corrosion	6 Each
3318	Reinforced Concrete Bridge Railing	Patched Area	42 Square Feet
3318	Reinforced Concrete Bridge Railing	Delamination/Spall	4 Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	200 Square Feet

Element Structure Maintenance Quantities

Structure Number: 110154

Inspection Date 08/09/2023

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Beam	3314	Maintenance Steel Superstructure Components	50	1080	40.000	10.000	135.000	895.000
Beam	3342	Clean and Paint Steel	171	10520	14.000	32.000	125.000	10349.000
Bearing Device	3334	Bridge Bearing	13	16	2.000	11.000	3.000	0.000
Bearing Device	3334	Bridge Bearing	6	16	0.000	6.000	7.000	3.000
Bearing Device	3342	Clean and Paint Steel	16	16	13.000	3.000	0.000	0.000
Bearing Device	3342	Clean and Paint Steel	13	16	4.000	8.000	1.000	3.000
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	46	544	0.000	43.000	50.000	451.000
Deck	3326	Maintenance of Concrete Deck	9722	7967	0.000	7489.000	6.000	472.000
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	19	120	0.000	41.000	24.000	55.000
Abutments	3350	Maintenance of Concrete Wings and Wall	8	118	0.000	8.000	0.000	110.000
Caps	3348	Maintenance of Concrete Substructure	127	216	0.000	85.000	11.000	120.000
Footing	3348	Maintenance of Concrete Substructure	0	18	0.000	0.000	0.000	18.000
Piles and Columns	3348	Maintenance of Concrete Substructure	19	9	0.000	4.000	3.000	2.000
Piles and Columns	3354	Maintenance of Steel Substructure Components	0	12	0.000	0.000	0.000	12.000

Priority Actions Request

Structure Number 110154

Span1

3326	Deck	Reinforced Concrete Deck	
Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	4	Span 1 Deck: (PAR) underside of deck on left overhang, multiple failed patches/spalls [up to 18 inches x 12 inches x up to 1 inch deep] with exposed rusted reinforcing [section loss up to 10 percent]
2	Delamination/Spall	6	Span 1 Deck: (PAR) underside of deck on right overhang 20 feet from end bent 1, spall [2 feet x 3 feet x up to 2.5 inches deep] with multiple exposed rusted reinforcing [section loss up to 10 percent]
2	Exposed Rebar	1	Span 1 Deck: (PAR) northbound lane, adjacent to bent 1 and right shoulder, shallow rebar; rebar has less than 5 percent section loss
3314	Beam 1	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 1 Beam 1: (PAR) at bent 1, painted over section loss: web adjacent to diaphragm (5/16 inch average remaining x 12 inch x 5 inch); lower web (7/16 inch average remaining x 15 inches x 2 inches) with corrosion reinitiated
3334	Beam 2	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	0	Span 1 Beam 2 - Far Bearing 2: (PAR) rust scale; right anchor bolt, painted over section loss (50 percent average remaining)
2	Corrosion	2	Span 1 Beam 2: (PAR) at bent 1, corrosion with section loss: web at end diaphragm (5/16 inch average remaining 12 inches long x up to 2 inches wide) with reactivated surface corrosion; lower web (3/8 inch average remaining x 15 inch x 3 inch)
3314	Beam 3	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 1 Beam 3: (PAR) at bent 1, web adjacent to diaphragm, corrosion with section loss (1/4 inch average remaining x 12 inch x 6 inch); painted over section loss: lower web (5/16 inch average remaining x 16 inch x 3 inch), bottom flange (0.63 inch average remaining x 15 inches)
3314	Beam 4	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 4: (PAR) at bent 1, painted over section loss: web adjacent to diaphragm (5/16 inch average remaining x 12 inch x 3 inch) lower web (5/16 inch average remaining x 10 inch x 2 inch); bottom flange (0.63 inch average remaining x 6 inches) with corrosion reinitiated
2	Connection	1	Span 1 Beam 4 - Far Bearing 4: (PAR) corrosion with section loss (up to 1/8 inch); right anchor bolt (50 percent average remaining)

Span2

? Priority Action Request (PAR)
 1 Assigned Routine Maintenance
 2 Assigned Priority Maintenance
 3 Assigned Critical Find

Priority Actions Request

Structure Number 110154

Priority Level	Defect Type	Quantity	Defect Description
3326 Deck Reinforced Concrete Deck			
2	Delamination/Spall	1	Span 2 Deck: (PAR) right shoulder, at bent 2, spall (1 foot x 6 inch x 1 inch deep) with exposed rusted rebar
2	Efflorescence/Rust	2	Span 2 Deck: (PAR) bay 3, adjacent to beam 3, near 2nd intermediate diaphragm, rust stains
2	Efflorescence/Rust	4	Span 2 Deck: (PAR) bays 2 and 3, adjacent to beams, areas of rust stains at random
2	Efflorescence/Rust	5	Span 2 Deck: (PAR) underside of right overhang near bent 2, multiple transverse cracks [up to 1/64 inch] with some efflorescence buildup
2	Patched Areas	45	Span 2 Deck: (PAR) SPAN 2 BOTTOM OF DECK EAST OVER HANG HAS SCATTERED unsound PATCH AREAS THROUGH OUT with associated delaminations [up to 30 inch diameter] over traffic
2	Patched Areas	30	Span 2 Deck: (PAR) SPAN 2 BOTTOM OF DECK WEST OVERHANG HAS SCATTERED unsound PATCHED AREAS THROUGH OUT SPAN with some associated delaminations [up to 30 inch diameter] over traffic
2	Delamination/Spall	1	Span 2 Deck: (PAR) on right overhang at bent 2, spall [7 inch x 1 inch x 1/2 inch deep] with exposed rusted reinforcing
2	Exposed Rebar	1	Span 2 Deck: (PAR) underside of bay 2, at bent 2, shallow rusted rebar
3314 Beam 1 Plate Girder			
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	3	Span 2 Beam 1: (PAR) at bent 1, web adjacent to diaphragm, corrosion with section loss (1/4 inch average remaining x 15 inch x 7 inch); painted over pitting: lower web (up to 1/16 inch deep x 3 feet x 6 inches), bottom flange (1/8 inch deep x 2 feet)
2	Corrosion	2	Span 2 Beam 1: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 6 inch x 1 inch); underside of bottom flange, painted over pitting (up to 1/8 inch deep x 6 inches) with corrosion reinitiated
3314 Beam 2 Plate Girder			
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 2 Beam 2: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 9 inch x 1 inch) with corrosion reinitiated
2	Corrosion	1	Span 2 Beam 2: (PAR) near end web at diaphragm, arrested metal loss/pitting, 12 inch long x up to 2 inch high x average remaining 5/16 inch with reactivated surface corrosion
3314 Beam 3 Plate Girder			
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 2 Beam 3: (PAR) at bent 1, painted over section loss: web adjacent to diameter (5/16 inch average remaining x 14 inch x 3 inch); lower web (3/8 inch average remaining x 3 feet x 3 inches) with corrosion reinitiated
2	Corrosion	1	Span 2 Beam 3: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 9 inch x 1 inch); lower web, painted over pitting (up to 1/8 inch deep x 3 inch x 3 inch) with corrosion reinitiated
3314 Beam 4 Plate Girder			

Priority Actions Request

Structure Number 110154

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	6	Span 2 Beam 4: (PAR) at bent 1, web adjacent to diaphragm, corrosion with section loss (3/16 inch average remaining x 18 inch x 5 inch); painted over section loss: lower web (5/16 inch average remaining x 5.5 feet x 4 inches); bottom flange, painted over pitting (up to 1/8 inch deep x 2.5 feet)
2	Corrosion	1	Span 2 Beam 4: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (1/4 inch average remaining x 14 inch x 8 inch) with adjacent pitting (up to 1/8 inch deep) with corrosion reinitiated

3310 Bent 1 Joint Compression Seal

Priority Level	Defect Type	Quantity	Defect Description
2	Adjacent Deck or ...	19	Span 2 Bent 1 Joint: (PAR) spans 1 and 2 header, in both travel lanes, delaminations (up to 12.5 feet x 6 inches) with cracks (up to 1/8 inch) and separated from adjacent deck (up to 1/2 inch)

Span3

3326 Deck Reinforced Concrete Deck

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	1	Span 3 Deck: (PAR) left overhang near mid span, spall [8 inch x 4 inch x 1 inch deep] with exposed rusted reinforcing [no measurable loss]
2	Efflorescence/Rust	9	Span 3 Deck: (PAR) underside of bays 1 and 3, adjacent to beams, areas of rust stains at random
2	Patched Areas	210	Span 3 Deck: (PAR) SPAN 3 TOP OF DECK HAS SCATTERED sound and unsound PATCHES [up to 8 feet x up to 4 feet x up to 1.5 inches deep] some with depressions; with adjacent spalls/delaminations (up to 1.5 foot diameter x 1.5 inches deep)
2	Patched Areas	15	Span 3 Deck: [PAR] along left overhang, multiple failed patches with associated delaminations [up to 30 inch diameter] over traffic
2	Patched Areas	15	Span 3 Deck: [PAR] SPAN 3 BOTTOM OF DECK RIGHT OVER HANG HAS SCATTERED unsound PATCHED AREAS THROUGH OUT THE SPAN with associated delaminations [up to 18 inch x up to 3 feet] over traffic

3314 Beam 1 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 3 Beam 1: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 14 inch x 4 inch); lower web, painted over pitting (up to 1/8 inch deep x 17 inch x 6 inch) with corrosion reinitiated
2	Corrosion	1	Span 3 Beam 1: (PAR) at bent 3, web adjacent to diaphragm, corrosion with section loss (5/16 inch average remaining x 1 foot x 3 inch)

3314 Beam 2 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 3 Beam 2: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (1/4 inch average remaining x 15 inch x 2 inch) with corrosion reinitiated
2	Corrosion	2	Span 3 Beam 2: (PAR) at bent 3, web adjacent to diaphragm, corrosion with section loss (3/8 inch average remaining x 14 inch x 2 inch)

? Priority Action Request (PAR)
 1 Assigned Routine Maintenance
 2 Assigned Priority Maintenance
 3 Assigned Critical Find

Priority Actions Request

Structure Number 110154

3314	Beam 3	Plate Girder		
Priority Level	Defect Type	Quantity	Defect Description	
②	Corrosion	2	Span 3 Beam 3: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (1/4 inch average remaining x 14 inch x 3 inch) with adjacent painted over pitting (up to 1/8 inch deep) with corrosion reinitiated	
②	Corrosion	2	Span 3 Beam 3: (PAR) at bent 3, web adjacent to diaphragm, corrosion with section loss (3/8 inch average remaining x 13 inch x 1.5 inch)	

3314	Beam 4	Plate Girder		
Priority Level	Defect Type	Quantity	Defect Description	
②	Corrosion	1	Span 3 Beam 4: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 12 inch x 6 inch); lower web, painted over pitting (up to 1/8 inch deep x 1 foot x 3 inches) with corrosion reinitiated	
②	Distortion	8	Span 3 Beam 4: (PAR) cover plate over right travel lane and shoulder, impact scrapes with gouges (approximately 1/2 inch deep)	

Span4

3314	Beam 1	Plate Girder		
Priority Level	Defect Type	Quantity	Defect Description	
②	Corrosion	2	Span 4 Beam 1: (PAR) at bent 3, web adjacent to diaphragm, corrosion with section loss (1/4 inch average remaining x 15 inch x 4 inch)	

3334	Beam 3	Plate Girder		
Priority Level	Defect Type	Quantity	Defect Description	
②	Connection	1	Span 4 Beam 3 - Near Bearing 3: (PAR) west side of bearing, between sole and beam bottom flange, broken weld	
②	Corrosion	1	Span 4 Beam 3 - Near Bearing 3: (PAR) corrosion with section loss (up to 1/4 inch deep); left anchor bolt (75 percent section loss)	
②	Corrosion	2	Span 4 Beam 3: (PAR) at bent 3, web adjacent to diaphragm, corrosion with section loss (5/16 inch average remaining x 14 inch x 6 inch); painted over section loss: lower web (3/8 inch average remaining x 1 foot x 2 inches), bottom flange (0.65 inch average remaining x 1 foot)	

3314	Beam 4	Plate Girder		
Priority Level	Defect Type	Quantity	Defect Description	
②	Corrosion	1	Span 4 Beam 4: (PAR) at bent 3, painted over section loss: web adjacent to diaphragm (5/16 inch average remaining x 9 inch x 2 inch); lower web (7/16 inch average remaining x 1 foot x 3 inch); bottom flange (0.75 inch average remaining x 6 inches) with corrosion reinitiated	

Approach

① Priority Action Request (PAR) ① Assigned Routine Maintenance ② Assigned Priority Maintenance ③ Assigned Critical Find

Priority Actions Request

Structure Number 110154

Guardrail and Barriers

3120 **Approach Guardrail and Barriers** Approach Guardrail and Barriers

Priority Level	Defect Type	Quantity	Defect Description
2		1	(PAR) northeast guardrail termination, end post split with disconnected termination block
2		1	(PAR) southeast guardrail attachment, improper lap
2		1	(PAR) southeast guardrail termination, impact damage with leaning end post
2		10	(PAR) southwest guardrail, 15 feet from bridge, impact damage (10 feet)

Element Condition and Maintenance Data

Structure Number: 110154

Inspection Date: 08/09/2023

Span 1 **Deck**
Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,726	0	0	1,726	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 12	Cracking (RC and Other)	SPAN 1 TOP OF DECK HAS MAP CRACKING AND TRANSVERSE CRACKS UP TO 1/16 INCH AND COARSE AGGREGATE EXPOSED THROUGH OUT.	3	1,650	1,650	Square Feet
<input checked="" type="checkbox"/> 12	Delamination/Spall	(PAR) underside of deck on left overhang, multiple failed patches/spalls [up to 18 inches x 12 inches x up to 1 inch deep] with exposed rusted reinforcing [section loss up to 10 percent]	3		4	Square Feet
<input checked="" type="checkbox"/> 12	Delamination/Spall	(PAR) underside of deck on right overhang 20 feet from end bent 1, spall [2 feet x 3 feet x up to 2.5 inches deep] with multiple exposed rusted reinforcing [section loss up to 10 percent]	3		6	Square Feet
<input checked="" type="checkbox"/> 12	Delamination/Spall	at bent 1, bay 2 end diaphragm, spall/delamination (4 feet x 6 inch x 2 inch deep)	3		4	Square Feet
<input checked="" type="checkbox"/> 12	Delamination/Spall	scattered throughout top of deck, multiple spalls/delaminations [up to 18 inches x up to 20 inches x up to 1.5 inches deep] no exposed reinforcing	3	25	25	Square Feet
<input checked="" type="checkbox"/> 12	Exposed Rebar	(PAR) northbound lane, adjacent to bent 1 and right shoulder, shallow rebar; rebar has less than 5 percent section loss	3	1	1	Square Feet
<input checked="" type="checkbox"/> 12	Patched Areas	SPAN 1 BOTTOM OF DECK IN RIGHT OVER HANG HAS SCATTERED unsound PATCHED AREAS with associated delaminations [up to 12 inch diameter]	3		20	Square Feet
<input checked="" type="checkbox"/> 12	Patched Areas	SPAN 1 TOP DECK HAS SCATTERED sound and unsound PATCHED ASPHALT AREAS [up to 4 feet x up to 2 feet x up to 1 inch deep]	3	50	50	Square Feet
<input checked="" type="checkbox"/> 12	Cracking (RC and Other)	throughout underside of deck, areas of map cracks (hairline), some with efflorescence at random	2		432	Square Feet
<input checked="" type="checkbox"/> 12	Delamination/Spall	along end bent 1, multiple edge spalls [up to 6 inches x 2 inches x 1 inch deep]	2		20	Square Feet
<input checked="" type="checkbox"/> 12	Patched Areas	SPAN 1 BOTTOM OF DECK IN WEST OVER HANG HAS SCATTERED PATCHED AREAS. APPROXIMATELY 20 SQUARE FEET.	2			Square Feet
<input checked="" type="checkbox"/> 12	Cracking (RC and Other)	(combined with other notes 2023) throughout length of overhangs, hairline transverse cracks	1			Square Feet

General Comments

Span 1 **Beam 1**
Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	58	46	10	0	2	Feet
515	Steel Protective Coating	566	555	10	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
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Structure Number: **110154**

Inspection Date: **08/09/2023**

<input checked="" type="checkbox"/>	107	Corrosion	(PAR) at bent 1, painted over section loss: web adjacent to diaphragm (5/16 inch average remaining x 12 inch x 5 inch); lower web (7/16 inch average remaining x 15 inches x 2 inches) with corrosion reinitiated	4	2	2 Feet
<input checked="" type="checkbox"/>	107	Corrosion	along length, scattered spot rust	2	10	Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	limited effectiveness surface corrosion present	3	1	1 Square Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	substantially effective freckled corrosion initiated	2	10	10 Square Feet

General Comments

Span 1 **Beam 2**
Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	58	51	5	0	2 Feet
515	Steel Protective Coating	566	559	5	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/>	107	Corrosion			
		(PAR) at bent 1, painted over section loss: web at end diaphragm (5/16 inch average remaining 12 inches long x up to 2 inches wide) with reactivated surface corrosion; lower web (3/8 inch average remaining x 15 inch x 3 inch)	4	2	2 Feet
<input checked="" type="checkbox"/>	107	Corrosion			
		along length, scattered spot rust	2	5	Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)			
		at bent 1, surface rust	3	2	2 Square Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)			
		substantially effective freckled corrosion initiated	2	5	5 Square Feet

General Comments

Span 1 **Beam 3**
Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	58	51	5	0	2 Feet
515	Steel Protective Coating	566	560	5	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/>	107	Corrosion			
		(PAR) at bent 1, web adjacent to diaphragm, corrosion with section loss (1/4 inch average remaining x 12 inch x 6 inch); painted over section loss: lower web (5/16 inch average remaining x 16 inch x 3 inch), bottom flange (0.63 inch average remaining x 15 inches)	4	2	2 Feet
<input checked="" type="checkbox"/>	107	Corrosion			
		along length, scattered spot rust	2	5	Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)			
		corrosion with section loss	4	1	1 Square Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)			
		substantially effective freckled corrosion initiated	2	5	5 Square Feet

General Comments

Span 1 **Beam 4**
Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	58	47	10	0	1 Feet
515	Steel Protective Coating	566	555	10	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 107	Corrosion	(PAR) at bent 1, painted over section loss: web adjacent to diaphragm (5/16 inch average remaining x 12 inch x 3 inch) lower web (5/16 inch average remaining x 10 inch x 2 inch); bottom flange (0.63 inch average remaining x 6 inches) with corrosion reinitiated	4	1	1 Feet
<input checked="" type="checkbox"/> 107	Corrosion	along length, scattered spot rust	2	10	Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	at bent 1, surface rust	3	1	1 Square Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	substantially effective freckled corrosion initiated	2	10	10 Square Feet

General Comments

Span 1 **Left Bridge Rail**
Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	59	34	24	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 331	Delamination/Spall	at Southwest guardrail attachment in top of rail post, spall [10 inches x 10 inches x 1.5 inches deep] no exposed reinforcing	3	1	1 Feet
<input checked="" type="checkbox"/> 331	Patched Area	face of curb, near midspan, patched area (24 feet x 6 inch)	2	24	Square Feet
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	along curb, wraparound vertical cracks [hairline]	1	10	Feet

General Comments

Span 1 **Right Bridge Rail**
Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	59	59	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	along curb, wraparound vertical cracks [hairline]	1	10	Feet

General Comments

Span 1 Near Bearing 1
Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 313	Corrosion	painted over section loss (up to 1/8 inch deep) with corrosion reinitiated	3	1	1	Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet

General Comments

Span 1 Far Bearing 1
Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 311	Corrosion	SURFACE RUST/RUST SCALE ON ON THE BEARING PLATES.	2	1		Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	4	1	1	Square Feet

General Comments

Span 1 Far Bearing 2
Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	0	0	1	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 311	Corrosion	(PAR) rust scale; right anchor bolt, painted over section loss (50 percent average remaining)	4	1		Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	rust scale/painted over section loss	4	1	1	Square Feet

General Comments

Span 1 Near Bearing 3
Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 313	Corrosion	surface rust	2	1		Each

<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet
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General Comments**Span 1 Far Bearing 3****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input checked="" type="checkbox"/>	311	Corrosion	rust scale/pack rust	3	1	1	Each
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	failed, no protection of underlying metal	4	1	1	Square Feet

General Comments**Span 1 Near Bearing 4****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input checked="" type="checkbox"/>	313	Corrosion	painted over section loss (up to 1/8 inch deep) with corrosion reinitiated	3	1	1	Each
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet

General Comments**Span 1 Far Bearing 4****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input checked="" type="checkbox"/>	311	Connection	(PAR) corrosion with section loss (up to 1/8 inch); right anchor bolt (50 percent average remaining)	3	1	1	Each
<input checked="" type="checkbox"/>	311	Corrosion	(combined with other notes 2023) active surface corrosion	1			Each
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square 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	2,255	0	6	2,249	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 12	Cracking (RC and Other)	SPAN 2 TOP OF DECK HAS MAP CRACKING AND TRANSVERSE CRACKS UP TO 1/16 INCH AND COARSE AGGREGATE EXPOSED THROUGH OUT.	3	2,047	2,136 Square Feet
<input checked="" type="checkbox"/> 12	Delamination/Spall	(PAR) right shoulder, at bent 2, spall (1 foot x 6 inch x 1 inch deep) with exposed rusted rebar	3	1	1 Square Feet
<input checked="" type="checkbox"/> 12	Delamination/Spall	at bents 1 and 2, end diaphragm, in all bays, spalls/delaminations/unsound patches (up to 2.5 feet x 10 inch x 3 inches deep) with exposed rusted rebar at random	3		25 Square Feet
<input checked="" type="checkbox"/> 12	Delamination/Spall	scattered throughout top of deck, multiple spalls/delaminations [up to 1 foot diameter x up to 1 inch deep] no exposed reinforcing	3	15	15 Square Feet
<input checked="" type="checkbox"/> 12	Efflorescence/Rust Staining	(PAR) bay 3, adjacent to beam 3, near 2nd intermediate diaphragm, rust stains	3	2	2 Square Feet
<input checked="" type="checkbox"/> 12	Efflorescence/Rust Staining	(PAR) bays 2 and 3, adjacent to beams, areas of rust stains at random	3	4	4 Square Feet
<input checked="" type="checkbox"/> 12	Efflorescence/Rust Staining	(PAR) underside of right overhang near bent 2, multiple transverse cracks [up to 1/64 inch] with some efflorescence buildup	3	5	5 Square Feet
<input checked="" type="checkbox"/> 12	Patched Areas	(PAR) SPAN 2 BOTTOM OF DECK EAST OVER HANG HAS SCATTERED unsound PATCH AREAS THROUGH OUT with associated delaminations [up to 30 inch diameter] over traffic	3	45	45 Square Feet
<input checked="" type="checkbox"/> 12	Patched Areas	(PAR) SPAN 2 BOTTOM OF DECK WEST OVERHANG HAS SCATTERED unsound PATCHED AREAS THROUGH OUT SPAN with some associated delaminations [up to 30 inch diameter] over traffic	3	30	30 Square Feet
<input checked="" type="checkbox"/> 12	Patched Areas	SPAN 2 TOP OF DECK HAS SCATTERED sound and unsound PATCHES [up to 5 feet x up to 3 feet x up to 1 inch deep]	3	100	100 Square Feet
<input checked="" type="checkbox"/> 12	Cracking (RC and Other)	throughout underside of deck, areas of map cracks (hairline), some with efflorescence at random	2		564 Square Feet
<input checked="" type="checkbox"/> 12	Delamination/Spall	(PAR) on right overhang at bent 2, spall [7 inch x 1 inch x 1/2 inch deep] with exposed rusted reinforcing	2	1	1 Square Feet
<input checked="" type="checkbox"/> 12	Exposed Rebar	(PAR) underside of bay 2, at bent 2, shallow rusted rebar	2	1	1 Square Feet
<input checked="" type="checkbox"/> 12	Patched Areas	2023 previously repaired, previously noted as: in Northbound lane near midspan, (2) spalls [up to 16 inch x 21 inch x up to 2 inch deep] with (2) exposed rusted reinforcing no section loss	2	4	Square Feet

General Comments

Span 2 **Beam 1**
Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	77	62	10	0	5 Feet
515	Steel Protective Coating	746	733	0	12	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 107	Corrosion	(PAR) at bent 1, web adjacent to diaphragm, corrosion with section loss (1/4 inch average remaining x 15 inch x 7 inch); painted over pitting: lower web (up to 1/16 inch deep x 3 feet x 6 inches), bottom flange (1/8 inch deep x 2 feet)	4	3	3 Feet
<input checked="" type="checkbox"/> 107	Corrosion	(PAR) at bent 2, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 6 inch x 1 inch); underside of bottom flange, painted over pitting (up to 1/8 inch deep x 6 inches) with corrosion reinitiated	4	2	2 Feet
<input checked="" type="checkbox"/> 107	Corrosion	along length, scattered spot rust	2	10	Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1 Square Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	along length, scattered spot rust; at bent 2, surface rust	3	12	12 Square Feet

General Comments

Span 2 **Beam 2**
Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	77	70	5	0	2 Feet
515	Steel Protective Coating	746	739	5	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 107	Corrosion	(PAR) at bent 2, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 9 inch x 1 inch) with corrosion reinitiated	4	1	1 Feet
<input checked="" type="checkbox"/> 107	Corrosion	(PAR) near end web at diaphragm, arrested metal loss/pitting, 12 inch long x up to 2 inch high x average remaining 5/16 inch with reactivated surface corrosion	4	1	1 Feet
<input checked="" type="checkbox"/> 107	Corrosion	scattered along length of beam, areas of active spot rust	2	5	Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	limited effectiveness surface corrosion present at bents 1 and 2	3	2	2 Square Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	substantially effective freckled corrosion initiated	2	5	5 Square Feet

General Comments

Span 2 **Beam 3**
Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	77	64	10	0	3 Feet
515	Steel Protective Coating	746	732	10	4	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 107	Corrosion	(PAR) at bent 1, painted over section loss: web adjacent to diameter (5/16 inch average remaining x 14 inch x 3 inch); lower web (3/8 inch average remaining x 3 feet x 3 inches) with corrosion reinitiated	4	2	2 Feet
<input checked="" type="checkbox"/> 107	Corrosion	(PAR) at bent 2, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 9 inch x 1 inch); lower web, painted over pitting (up to 1/8 inch deep x 3 inch x 3 inch) with corrosion reinitiated	4	1	1 Feet
<input checked="" type="checkbox"/> 107	Corrosion	along length, scattered spot rust	2	10	Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	limited effectiveness surface corrosion present at bents 1 and 2	3	4	4 Square Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	substantially effective freckled corrosion initiated	2	10	10 Square Feet

General Comments

Span 2 **Beam 4**
Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	77	50	20	0	7 Feet
515	Steel Protective Coating	746	719	20	1	6 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 107	Corrosion	(PAR) at bent 1, web adjacent to diaphragm, corrosion with section loss (3/16 inch average remaining x 18 inch x 5 inch); painted over section loss: lower web (5/16 inch average remaining x 5.5 feet x 4 inches); bottom flange, painted over pitting (up to 1/8 inch deep x 2.5 feet)	4	6	6 Feet
<input checked="" type="checkbox"/> 107	Corrosion	(PAR) at bent 2, web adjacent to diaphragm, painted over section loss (1/4 inch average remaining x 14 inch x 8 inch) with adjacent pitting (up to 1/8 inch deep) with corrosion reinitiated	4	1	1 Feet
<input checked="" type="checkbox"/> 107	Corrosion	along length, scattered spot rust	2	20	Feet
<input checked="" type="checkbox"/> 107	Connection	(2023 defect moved to deck) right overhang over bent 2, spall [2 feet x 1 foot x 6 inches deep] with exposed rusted reinforcing [section loss 25 percent]	1		Feet
<input checked="" type="checkbox"/> 107	Corrosion	(combined with other notes 2023) near end lower web East face, arrested metal loss/pitting, 7 feet long x up to 6 inches high x average remaining 9/16 inch	1		Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	at bent 1, corrosion with section loss	4	6	6 Square Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	at bent 2, surface rust	3	1	1 Square Feet

<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	substantially effective freckled corrosion initiated	2	20	20	Square Feet
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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	77	38	5	34	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	331	Patched Area				34 Square Feet
		face of curb, near bent 1, patched area (34 feet x 9 inch) with cracks (up to 1/32 inch)	3	34		
<input checked="" type="checkbox"/>	331	Cracking (RC and Other)				Feet
		along curb, wraparound vertical cracks [up to 1/32 inch]	2	5		

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	77	70	3	4	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	331	Patched Area				4 Square Feet
		adjacent to joint over bent 2, sound patched area [4 feet x 11 inches] with associated hairline map cracking	3	4		
<input checked="" type="checkbox"/>	331	Cracking (RC and Other)				Feet
		along curb, wraparound vertical cracks [up to 1/32 inch]	2	3		

General Comments**Span 2 Near Bearing 1****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	313	Corrosion				Each
		SURFACE RUST/RUST SCALE ON THE BEARING PLATES.	2	1		
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)				1 Square Feet
		surface rust/rust scale	4	1		

General Comments

Span 2**Far Bearing 1****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
311	Movable Bearing	1	0	0	1	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 311	Corrosion	FRECKLED RUST/PACK RUST ON ON THE BEARING PLATES.	3	1	1 Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	FRECKLED RUST/PACK RUST ON PLATES.	4	1	1 Square Feet

General Comments**Span 2****Near Bearing 2****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 313	Corrosion	SPAN 2 BEAM 2 NEAR BEARING HAS SURFACE RUST ON THE BEARING PLATE.	2	1	Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1 Square Feet

General Comments**Span 2****Far Bearing 2****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
311	Movable Bearing	1	0	0	1	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 311	Corrosion	painted over section loss (up to 1/8 inch deep) with corrosion reinitiated; pack rust	3	1	1 Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust/pack rust	4	1	1 Square Feet

General Comments**Span 2****Near Bearing 3****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	0	1	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 313	Corrosion	painted over section loss (up to 1/4 inch deep); pack rust	3	1	1 Each

<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	pack rust	4	1	1	Square Feet
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General Comments**Span 2 Far Bearing 3****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input checked="" type="checkbox"/>	311	Corrosion	pack rust	3	1	1	Each
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	pack rust	4	1	1	Square Feet

General Comments**Span 2 Near Bearing 4****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input checked="" type="checkbox"/>	313	Corrosion	SURFACE RUST/RUST SCALE ON THE BEARING PLATES.	2	1		Each
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	4	1	1	Square Feet

General Comments**Span 2 Far Bearing 4****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input checked="" type="checkbox"/>	311	Corrosion	right anchor bolt nut, painted over section loss up to 10 percent with corrosion reinitiated	3	1	1	Each
<input checked="" type="checkbox"/>	311	Corrosion	SURFACE RUST ON THE BEARING PLATES.	2			Each
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	SURFACE RUST ON PLATES.	3	1	1	Square Feet

General Comments

Span 2**Bent 1 Joint****Compression Seal**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
302	Compression Joint Seal	40	13	6	21	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 302	Adjacent Deck or Header	(PAR) spans 1 and 2 header, in both travel lanes, delaminations (up to 12.5 feet x 6 inches) with cracks (up to 1/8 inch) and separated from adjacent deck (up to 1/2 inch)	3	19	19 Feet
<input checked="" type="checkbox"/> 302	Seal Adhesion	near centerline of joint, adhesion loss	3	2	Feet
<input checked="" type="checkbox"/> 302	Debris Impaction	both shoulders, debris accumulation	2	6	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	2,260	0	0	2,260	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 12	Cracking (RC and Other)	SPAN 3 TOP OF DECK HAS MAP CRACKING UP TO 1/16 INCH AND COARSE AGGREGATE EXPOSED THROUGH OUT.	3	2,050	2,050 Square Feet
<input checked="" type="checkbox"/> 12	Delamination/Spall	underside of bays 2 and 3, near half of span, areas of poor consolidation (up to 3.5 feet x 15 inch x 1 inch deep)	3		10 Square Feet
<input checked="" type="checkbox"/> 12	Efflorescence/Rust Staining	(PAR) underside of bays 1 and 3, adjacent to beams, areas of rust stains at random	3		9 Square Feet
<input checked="" type="checkbox"/> 12	Patched Areas	(PAR) SPAN 3 TOP OF DECK HAS SCATTERED sound and unsound PATCHES [up to 8 feet x up to 4 feet x up to 1.5 inches deep] some with depressions; with adjacent spalls/delaminations (up to 1.5 foot diameter x 1.5 inches deep)	3	210	210 Square Feet
<input checked="" type="checkbox"/> 12	Patched Areas	[PAR] along left overhang, multiple failed patches with associated delaminations [up to 30 inch diameter] over traffic	3		15 Square Feet
<input checked="" type="checkbox"/> 12	Patched Areas	[PAR] SPAN 3 BOTTOM OF DECK RIGHT OVER HANG HAS SCATTERED unsound PATCHED AREAS THROUGH OUT THE SPAN with associated delaminations [up to 18 inch x up to 3 feet] over traffic	3		15 Square Feet
<input checked="" type="checkbox"/> 12	Cracking (RC and Other)	throughout underside of deck, areas of map cracks (hairline) at random	2		565 Square Feet
<input checked="" type="checkbox"/> 12	Delamination/Spall	(PAR) left overhang near mid span, spall [8 inch x 4 inch x 1 inch deep] with exposed rusted reinforcing [no measurable loss]	2		1 Square Feet
<input checked="" type="checkbox"/> 12	Delamination/Spall	at bents 2 and 3, end diaphragm, in all bays, spalls/delaminations/unsound patches (up to 5 feet x 6 inch x 2 inches deep) with exposed rusted rebar	2		20 Square Feet

<input checked="" type="checkbox"/>	12	Patched Areas	2023 previously repaired, previously noted as: in Southbound lane 10 feet from joint over bent 3, spall [up to 28 inch x up to 18 inch x up to 2 inch deep] with (1) exposed rusted reinforcing no section loss	2			Square Feet
<input checked="" type="checkbox"/>	12	Patched Areas	(combined with other notes 2023) SPAN 3 BOTTOM OF DECK LEFT OVER HANG HAS SCATTERED PATCHE AREAS THROUGH OUT THE SPAN. 15 SQUARE FEET.	1			Square Feet

General Comments

Span 3 Beam 1 Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	77	65	10	0	2	Feet
515	Steel Protective Coating	752	740	10	1	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input checked="" type="checkbox"/>	107	Corrosion	(PAR) at bent 2, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 14 inch x 4 inch); lower web, painted over pitting (up to 1/8 inch deep x 17 inch x 6 inch) with corrosion reinitiated	4	1	1	Feet
<input checked="" type="checkbox"/>	107	Corrosion	(PAR) at bent 3, web adjacent to diaphragm, corrosion with section loss (5/16 inch average remaining x 1 foot x 3 inch)	4	1	1	Feet
<input checked="" type="checkbox"/>	107	Corrosion	along length, scattered spot rust	2	10		Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	at bent 3, corrosion with section loss	4	1	1	Square Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	at bent 2, surface rust	3	1	1	Square Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	substantially effective freckled corrosion initiated	2	10	10	Square Feet

General Comments

Span 3 Beam 2 Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	77	68	5	0	4	Feet
515	Steel Protective Coating	752	743	5	2	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input checked="" type="checkbox"/>	107	Corrosion	(PAR) at bent 2, web adjacent to diaphragm, painted over section loss (1/4 inch average remaining x 15 inch x 2 inch) with corrosion reinitiated	4	2	2	Feet
<input checked="" type="checkbox"/>	107	Corrosion	(PAR) at bent 3, web adjacent to diaphragm, corrosion with section loss (3/8 inch average remaining x 14 inch x 2 inch)	4	2	2	Feet
<input checked="" type="checkbox"/>	107	Corrosion	along length, scattered spot rust	2	5		Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	at bent 3, corrosion with section loss	4	2	2	Square Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	limited effectiveness surface corrosion present at bent 2	3	2	2	Square Feet

<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	substantially effective freckled corrosion initiated	2	5	5	Square Feet
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General Comments

Span 3 Beam 3 Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	77	68	5	0	4 Feet
515	Steel Protective Coating	752	744	5	2	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	107	Corrosion	(PAR) at bent 2, web adjacent to diaphragm, painted over section loss (1/4 inch average remaining x 14 inch x 3 inch) with adjacent painted over pitting (up to 1/8 inch deep) with corrosion reinitiated	4	2	2 Feet
<input checked="" type="checkbox"/>	107	Corrosion	(PAR) at bent 3, web adjacent to diaphragm, corrosion with section loss (3/8 inch average remaining x 13 inch x 1.5 inch)	4	2	2 Feet
<input checked="" type="checkbox"/>	107	Corrosion	along length, scattered spot rust	2	5	Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	at bent 3, corrosion with section loss	4	1	1 Square Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	at bent 2, surface rust	3	2	2 Square Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	substantially effective freckled corrosion initiated	2	5	5 Square Feet

General Comments

Span 3 Beam 4 Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	77	57	10	9	1 Feet
515	Steel Protective Coating	752	740	10	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	107	Corrosion	(PAR) at bent 2, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 12 inch x 6 inch); lower web, painted over pitting (up to 1/8 inch deep x 1 foot x 3 inches) with corrosion reinitiated	4	1	1 Feet
<input checked="" type="checkbox"/>	107	Corrosion	at bent 3, painted over section loss: web adjacent to diaphragm (7/16 inch average remaining x 8 inch x 1.5 inch) with corrosion reinitiated	3	1	1 Feet
<input checked="" type="checkbox"/>	107	Damage	cover plate, impact damage	3		Feet
<input checked="" type="checkbox"/>	107	Distortion	(PAR) cover plate over right travel lane and shoulder, impact scrapes with gouges (approximately 1/2 inch deep)	3	8	8 Feet
<input checked="" type="checkbox"/>	107	Corrosion	along length, scattered spot rust	2	10	Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	at bents 2 and 3, surface rust	3	2	2 Square Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	substantially effective freckled corrosion initiated	2	10	10 Square 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	77	68	5	4	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 331	Patched Area	adjacent to joint over bent 3, sound patched area [4 feet x 11 inches] with associated hairline map cracking	3	4	4 Square Feet
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	along curb, wraparound vertical cracks [up to 1/32 inch]	2	5	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	77	72	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 curb, wraparound vertical cracks [up to 1/32 inch]	2	5	Feet

General Comments

Span 3 Near Bearing 1

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	1	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 313	Corrosion	freckled rust	2	1	Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE WITH FRECKLED RUST ON PLATES.	2	1	1 Square Feet

General Comments

Span 3 Far Bearing 1

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
311	Movable Bearing	1	0	0	1	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 311	Corrosion	SURFACE RUST/PACK RUST ON THE BEARING PLATES.	3	1	1 Each

<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	surface rust/pack rust	4	1	1	Square Feet
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General Comments**Span 3 Near Bearing 2****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	313	Corrosion	3	1	1	Each
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	3	1	1	Square Feet

General Comments**Span 3 Far Bearing 2****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	311	Corrosion	3	1	1	Each
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	4	1	1	Square Feet

General Comments**Span 3 Near Bearing 3****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	313	Corrosion	2	1		Each
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	3	1	1	Square Feet

General Comments

Span 3**Far Bearing 3****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
311	Movable Bearing	1	0	0	1	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 311	Corrosion	active surface corrosion with pack rust up to 1/4 inch	3	1	1 Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	failed, no protection of underlying metal	4	1	1 Square Feet

General Comments**Span 3****Near Bearing 4****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 313	Corrosion	RUST SCALE ON THE BEARING PLATES.	2	1	Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	RUST SCALE ON PLATES.	4	1	1 Square Feet

General Comments**Span 3****Far Bearing 4****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
311	Movable Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 311	Corrosion	active surface corrosion	2	1	Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	limited effectiveness surface corrosion present	3	1	1 Square Feet

General Comments**Span 3****Bent 2 Joint****Compression Seal**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
302	Compression Joint Seal	40	28	12	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 302	Adjacent Deck or Header	along the headers, transverse cracks (up to 1/32 inch x 6 inches) at random	2	6	Feet

302 Debris Impaction both shoulders, debris accumulation 2 6 Feet

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,726	472	0	1,254	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 12	Cracking (RC and Other)	SPAN 4 TOP OF DECK HAS MAP CRACKING UP TO 1/16 INCH AND COARSE AGGREGATE EXPOSED THROUGH OUT.	3	1,200	1,200	Square Feet
<input checked="" type="checkbox"/> 12	Delamination/Spall	at bent 3, end diaphragm, in all bays, spalls/delaminations (up to 2 feet x 6 inch x 2 inches deep) with exposed rusted rebar	3	5	5	Square Feet
<input checked="" type="checkbox"/> 12	Delamination/Spall	underside right overhang at midspan, spall with adjacent delamination, 34 inch x 18 inch x 2 inch deep	3	4	4	Square Feet
<input checked="" type="checkbox"/> 12	Patched Areas	SPAN 4 BOTTOM OF LEFT OVERHANG HAS multiple failed PATCH AREAS/DELAMINATIONS (up to 2 feet x 15 inch) THROUGH OUT THE SPAN	3	6	6	Square Feet
<input checked="" type="checkbox"/> 12	Patched Areas	SPAN 4 TOP OF DECK HAS SCATTERED sound and unsound PATCHES [up to 2 foot diameter x up to 1/2 inch deep]	3	25	25	Square Feet
<input checked="" type="checkbox"/> 12	Patched Areas	SPAN 4 BOTTOM OF RIGHT OVERHANG HAS multiple failed PATCHED AREAS (up to 2 feet x 15 inch) THROUGH OUT THE SPAN	3	14	14	Square Feet
<input checked="" type="checkbox"/> 12	Cracking (RC and Other)	throughout underside of deck, areas of map cracks (hairline) at random	2		432	Square Feet
<input checked="" type="checkbox"/> 12	Patched Areas	near end bent 2, approach asphalt carried onto bridge	2			Square Feet

General Comments**Span 4 Beam 1****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	58	46	10	0	2	Feet
515	Steel Protective Coating	566	554	10	0	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 107	Corrosion	(PAR) at bent 3, web adjacent to diaphragm, corrosion with section loss (1/4 inch average remaining x 15 inch x 4 inch)	4	2	2	Feet
<input checked="" type="checkbox"/> 107	Corrosion	along length, scattered spot rust	2	10		Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	at bent 3, corrosion with section loss	4	2	2	Square Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	substantially effective freckled corrosion initiated	2	10	10	Square Feet

General Comments

Span 4 **Beam 2**
Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	58	52	5	1	0 Feet
515	Steel Protective Coating	566	561	5	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 107	Corrosion	at bent 3, painted over section loss: web adjacent to diaphragm (7/16 inch average remaining x 8 inch x 1 inch); lower web (7/16 inch average remaining x 8 inch x 1.5 inch)	3	1	1 Feet
<input checked="" type="checkbox"/> 107	Corrosion	along length, scattered spot rust	2	5	Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	substantially effective freckled corrosion initiated	2	5	5 Square Feet

General Comments

Span 4 **Beam 3**
Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	58	51	5	0	2 Feet
515	Steel Protective Coating	566	561	5	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 107	Corrosion	(PAR) at bent 3, web adjacent to diaphragm, corrosion with section loss (5/16 inch average remaining x 14 inch x 6 inch); painted over section loss: lower web (3/8 inch average remaining x 1 foot x 2 inches), bottom flange (0.65 inch average remaining x 1 foot)	4	2	2 Feet
<input checked="" type="checkbox"/> 107	Corrosion	along length, scattered spot rust	2	5	Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	substantially effective freckled corrosion initiated	2	5	5 Square Feet

General Comments

Span 4 **Beam 4**
Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	58	47	10	0	1 Feet
515	Steel Protective Coating	566	554	10	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 107	Corrosion	(PAR) at bent 3, painted over section loss: web adjacent to diaphragm (5/16 inch average remaining x 9 inch x 2 inch); lower web (7/16 inch average remaining x 1 foot x 3 inch); bottom flange (0.75 inch average remaining x 6 inches) with corrosion reinitiated	4	1	1 Feet
<input checked="" type="checkbox"/> 107	Corrosion	along length, scattered spot rust	2	10	Feet

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<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	at bent 3, surface rust	3	2	2	Square Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	substantially effective freckled corrosion initiated	2	10	10	Square 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	59	54	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 curb, wraparound vertical cracks [up to 1/32 inch]	2	5	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	59	56	3	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	331	Delamination/Spall	rail, near midspan, spalls (up to 6 inch x 3 inch x 3/4 inch deep) with exposed rusted rebar	2	3	3 Feet
<input checked="" type="checkbox"/>	331	Cracking (RC and Other)	along curb, wraparound vertical cracks [hairline]	1	10	Feet

General Comments**Span 4 Near Bearing 1****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	311	Corrosion	rust scale; both anchor bolts (approximately 10 percent section loss)	3	1	1 Each
<input checked="" type="checkbox"/>	311	Corrosion	(combined with other notes 2023) SPAN 4 BEAM 1 NEAR BEARING HAS FRECKLED RUST AND CORROSION ON THE BEARING PLATE.	1		Each
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	rust scale/corrosion with section loss	4	1	1 Square Feet

General Comments

Span 4**Far Bearing 1****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	0	1	0 Each
515	Steel Protective Coating	1	0	0	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 313	Corrosion	painted over section loss (up to 3/16 inch deep) with corrosion reinitiated	3	1	1 Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1 Square Feet

General Comments**Span 4****Near Bearing 2****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
311	Movable Bearing	1	0	0	1	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 311	Corrosion	SURFACE RUST/PACK RUST ON THE BEARING PLATES.	3	1	1 Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust/pack rust	4	1	1 Square Feet

General Comments**Span 4****Near Bearing 3****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
311	Movable Bearing	1	0	0	0	1 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 311	Connection	(PAR) west side of bearing, between sole and beam bottom flange, broken weld	4		1 Each
<input checked="" type="checkbox"/> 311	Corrosion	(PAR) corrosion with section loss (up to 1/4 inch deep); left anchor bolt (75 percent section loss)	4	1	1 Each
<input checked="" type="checkbox"/> 311	Corrosion	(combined with other notes 2023) FRECKLED RUST AND CORROSION ON THE BEARING PLATES.	1		Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1 Square Feet

General Comments

Span 4**Far Bearing 4****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 313	Corrosion	painted over section loss (up to 3/16 inch deep) with corrosion reinitiated	3	1	1	Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet

General Comments**Span 4****Near Bearing 4****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 311	Corrosion	SURFACE RUST ON THE BEARING PLATES.	2	1		Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet

General Comments**Span 4****Bent 3 Joint****Compression Seal**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
302	Compression Joint Seal	40	14	6	20	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 302	Seal Adhesion	along the length of the joint, areas of adhesion loss at random	3	20		Feet
<input checked="" type="checkbox"/> 302	Adjacent Deck or Header	along the headers, transverse cracks (up to 1/32 inch x 6 inches) at random	2			Feet
<input checked="" type="checkbox"/> 302	Debris Impaction	both shoulders, debris accumulation	2	6		Feet

General Comments**End Bent 1****Abutment****Reinforced Concrete Abutment**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinforced Concrete Abutment	59	55	0	4	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 215	Delamination/Spall	at beam penetrations, spall, up to 9 inch x 4 inch	3	4	4	Feet

General Comments**End Bent 1 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	51	51	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 234	Cracking (RC and Other)	along length, multiple vertical crack, up to full height x hairline, some extend across top face	1	7	Feet

General Comments**Bent 1 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	38	17	0	21	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 234	Cracking (RC and Other)	on all faces of cap, scattered map cracking [up to 1/16 inch] some with efflorescence and random pop outs	3	5	5 Feet
<input checked="" type="checkbox"/> 234	Cracking (RC and Other)	south, and north face, and underside of cap, longitudinal and vertical cracks (up to 1/8 wide x 7 feet) at random	3	16	16 Feet
<input checked="" type="checkbox"/> 234	Cracking (RC and Other)	(combined with other notes 2023) NORTH FACE OF CAP HAS SCATTERED HAIRLINE MAP CRACKING.	1		Feet

General Comments**Bent 1 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	0	1	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 205	Delamination/Spall	west face, near ground, poor consolidation (up to 5 feet x 1 foot x 1 inch deep) with associated vertical cracks (up to 1/8 inch wide x 3.5 feet)	3	1	1 Each
<input checked="" type="checkbox"/> 205	Delamination/Spall	(combined with other notes 2023) WEST FACE OF COLUMN 1 HAS A 16 INCH X 35 INCH X UP TO 1/16 INCH CRACKED DELAMINATED AREA NEAR THE GROUND LINE.	1		Each

General Comments

Bent 1**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	Cracking (RC and Other)	UP TO 3 FOOT X 1/32 VERTICAL CRACK WEST FACE AT BOTTOM OF CAP	2	1	Each
<input checked="" type="checkbox"/> 205	Delamination/Spall	East face under cap, delamination [5 feet x 19 inches]	2		5 Each

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

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 205	Delamination/Spall	northwest corner, near ground, spall (10 inch x 4 inch x 1.5 inch deep)	3	1	1 Each
<input checked="" type="checkbox"/> 205	Delamination/Spall	on East and West faces of pile, delaminations [up to 18 inch x 1 foot]	2		2 Each

General Comments**End Bent 2****Abutment****Reinforced Concrete Abutment**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
215	Reinforced Concrete Abutment	59	55	0	4	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 215	Delamination/Spall	at beam penetrations, spall, up to 9 inch x 3 inch	3	4	4 Feet

General Comments**End Bent 2****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	51	45	6	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 234	Cracking (RC and Other)	along length, multiple vertical crack, up to full height x 1/64 inch, some extend across top face	2	6	Feet

General Comments

Bent 2 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	38	7	5	26	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 234	Delamination/Spall	south and north faces of cap, multiple delaminations/spalls (up to 8 feet x 2 feet x 1.5 inch deep), some with exposed rusted rebar and associated cracks (up to 1/8 inch wide)	3	25	30 Feet
<input checked="" type="checkbox"/> 234	Patched Area	BENT 2 NORTH FACE OF CAP HAS AN UNSOUND PATCHED AREA (2 FEET X 15 INCH) WEST SIDE OF BEAM 1.	3	1	3 Feet
<input checked="" type="checkbox"/> 234	Cracking (RC and Other)	BENT 2 SOUTH AND NORTH FACES OF CAP HAS SCATTERED HAIRLINE MAP CRACKING THROUGH OUT.	2	5	Feet
<input checked="" type="checkbox"/> 234	Cracking (RC and Other)	(combined with other notes 2023) on all faces of cap, scattered map cracking [up to 1/16 inch] some with efflorescence and random pop outs	1		Feet
<input checked="" type="checkbox"/> 234	Delamination/Spall	(combined with other notes 2023) 24 INCH DIAMETER DELAMINATION WITH MAP CRACKING UP TO 1/32 INCH NORTH FACE UNDER BEAM 4..	1		Feet
<input checked="" type="checkbox"/> 234	Delamination/Spall	(combined with other notes 2023) BENT 2 NORTH FACE OF CAP HAS A CRACKED DELAMINATED AREA BETWEEN BEAM 1 AND BEAM 2 30 INCH X 34 INCH.	1		Feet
<input checked="" type="checkbox"/> 234	Delamination/Spall	(combined with other notes 2023) BENT 2 NORTH FACE OF CAP HAS A CRACKED DELAMINATED AREA BETWEEN BEAM 2 AND BEAM 3 14 INCH X 23 INCH, WITH A 6 INCH AREA OF EXPOSED REINFORCING.	1		Feet
<input checked="" type="checkbox"/> 234	Delamination/Spall	(combined with other notes 2023) BENT 2 NORTH FACE OF CAP HAS A CRACKED DELAMINATED AREA RIGHT SIDE OF BEAM 1 17 inch X 18 inch.	1		Feet
<input checked="" type="checkbox"/> 234	Delamination/Spall	(combined with other notes 2023) BENT 2 NORTH FACE OF CAP HAS A CRACKED DELAMINATED AREA UNDER BEAM 2 32 INCH X 43 INCH.	1		Feet
<input checked="" type="checkbox"/> 234	Delamination/Spall	(combined with other notes 2023) north face under beam 2, spall [12 inch x 8 inch x up to 1 inch deep] with exposed rusted reinforcing no loss	1		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	0	1	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 205	Patched Area	West face below cap, sound patch [8 inch x 2 feet] with cracks [up to 1/32 inch]	3	1	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	0	1	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 205	Cracking (RC and Other)	West and East faces, delamination [up to 14 inch x 11 inch] with associated map cracking up to 1/32 inch with efflorescence	3	1	6 Each

General Comments**Bent 2****Pile 3****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	Delamination/Spall	West and East faces, delamination [up to 14 inch x 11 inch] with associated hairline map cracking	2	1	3 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	38	0	0	38	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 234	Cracking (RC and Other)	BENT 3 WEST FACE OF CAP HAS MAP CRACKING UP TO 1/32 INCH.	3		5 Feet
<input checked="" type="checkbox"/> 234	Cracking (RC and Other)	north face, below bays 1 and 2, longitudinal crack (up to 1/16 inch x 20 feet)	3		20 Feet
<input checked="" type="checkbox"/> 234	Cracking (RC and Other)	south face, upper and lower edges, longitudinal cracks (up to 1/8 inch x full length) with adjacent delaminations (up to 8 feet x 8 inch)	3	38	38 Feet
<input checked="" type="checkbox"/> 234	Patched Area	north face of cap, bay 3 to right end, delamination/unsound patches/spalls (up to 7.5 feet x 1 foot x 1/2 inch deep) with associated cracks (up to 1/16 inch)	3		10 Feet
<input checked="" type="checkbox"/> 234	Cracking (RC and Other)	(combined with other notes 2023) 9 INCH X 16 INCH X UP TO 1/16 INCH AREA OF MAP CRACKING SOUTH FACE WEST OF BEAM 1	1		Feet
<input checked="" type="checkbox"/> 234	Cracking (RC and Other)	(combined with other notes 2023) on all faces of cap, scattered map cracking [up to 1/16 inch] some with efflorescence and random pop outs	1		Feet
<input checked="" type="checkbox"/> 234	Delamination/Spall	(combined with other notes 2023) BENT 3 NORTH FACE OF CAP HAS A CRACKED DELAMINATED AREA UNDER BEAM 3 16 INCH X 20 INCH.	1		Feet
<input checked="" type="checkbox"/> 234	Delamination/Spall	(combined with other notes 2023) BENT 3 SOUTH FACE OF CAP HAS A CRACKED DELAMINATED AREA EAST SIDE OF BEAM 2 30 INCH X 48 INCH.	1		Feet

Structure Number: **110154**

Inspection Date: **08/09/2023**

<input checked="" type="checkbox"/>	234	Delamination/Spall	(combined with other notes 2023) BENT 3 SOUTH FACE OF CAP HAS A CRACKED DELAMINATED AREA WEST SIDE BEAM 2 17 INCH X 24.	1	Feet
<input checked="" type="checkbox"/>	234	Delamination/Spall	(combined with other notes 2023) BENT 3 SOUTH FACE OF CAP HAS A CRACKED DLAMINATED AREA WEST SIDE OF BEAM 3 12 INCH X 16 INCH.	1	Feet
<input checked="" type="checkbox"/>	234	Delamination/Spall	(combined with other notes 2023) SPAN 3 SOUTH FACE OF CAP HAS A CRACKED DLAMINATED AREA ON BOTTOM EDGE 10 INCH X 24 INCH UNDER BEAM 3.	1	Feet

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 Cracking (RC and Other)	2 FOOT X UP TO 1/32 INCH VERTICAL CRACK WEST FACE AT BOTTOM OF CAP	2	1		Each

General Comments

Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1726
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	58
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	58
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	58
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	58
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	59
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	59
Span 1	Near Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing 1	Movable Bearing	Movable Bearing	1
Span 1	Far Bearing 2	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 1	Near Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing 3	Movable Bearing	Movable Bearing	1
Span 1	Far Bearing 4	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	2255
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	77
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	77
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	77
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	77
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	77
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	77
Span 2	Bent 1 Joint	Compression Seal	Compression Joint Seal	40
Span 2	Near Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 1	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing 2	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 3	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing 4	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	2260
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	77
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	77
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	77
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	77
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	77
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	77
Span 3	Bent 2 Joint	Compression Seal	Compression Joint Seal	40
Span 3	Far Bearing 1	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing 2	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing 3	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing 3	Fixed Bearing	Fixed Bearing	1

Elements Verified

Location	Name	Component	Element Name	Amount
Span 3	Near Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing 4	Movable Bearing	Movable Bearing	1
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1726
Span 4	Beam 1	Plate Girder	Steel Open Girder/Beam	58
Span 4	Beam 2	Plate Girder	Steel Open Girder/Beam	58
Span 4	Beam 3	Plate Girder	Steel Open Girder/Beam	58
Span 4	Beam 4	Plate Girder	Steel Open Girder/Beam	58
Span 4	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	59
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	59
Span 4	Bent 3 Joint	Compression Seal	Compression Joint Seal	40
Span 4	Near Bearing 1	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing 2	Movable Bearing	Movable Bearing	1
Span 4	Near Bearing 3	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing 4	Movable Bearing	Movable Bearing	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	38
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	51
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	59
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	38
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	51
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	59
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	38
Bent 3	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 110154

Inspection Date: 08/09/2023

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	4
Item 59: Superstructure	0 - 9 , N	5
Item 60: Substructure	0 - 9 , N	5
Item 61: Channel and Channel Protection	0 - 9 , N	N
Item 62: Culvert	0 - 9 , N	N
Item 71: Waterway Adequacy	0 - 9 , N	N
Item 72: Approach Roadway Alignment	0 - 9 , N	8

Note:
Items 58,59,60,62 reflect this inspection only.

For overall NBI coding grade, see cover sheet.

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	F	7967	3376
Drainage System	G, F, P, or C	F	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	F	60	3352
Scour	G, F, P, or C			
Wingwall	G, F, P, or C	G	0	3350
Field Scour Evaluation				
Drift	G, F, P, or C		0	3366
Fender System	G, F, P, or C		0	3364
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Superstructure Paint Code		B		

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	N
Priority Maintenance Request Submitted	YES/NO	Y
Inspection Time	Hours	10
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	Y
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: 110154

Inspection Date: 08/09/2023

Item	Deck - Item 58	Grade	4	Maint Code		Qty.	0
Details	Deck rating lowered to a 4 due to widespread cracking, delimitations, unsound patches, and spalls with some exposed rebar (exposed rebar has up to 10 percent section loss)						
Item	Deck Debris	Grade	F	Maint Code	3376	Qty.	7967
Details	along the curblines, debris accumulation (up to 2 feet wide x 4 inches wide) with vegetation, with multiple clogged drains						
Item	Drainage System	Grade	F	Maint Code	3332	Qty.	0
Details	see deck debris notes						
Item	Slope Protection	Grade	F	Maint Code	3352	Qty.	60
Details	end bent 2 slope protection, in bay 1, near cap, settlement (up to 3 inches) with adjacent longitudinal crack (up to 1/8 inch x 10 feet)						
Item	General Comments and Misc Items	Grade		Maint Code		Qty.	0
Details	(PAR) northeast guardrail termination, end post split with disconnected termination block (PAR) southeast guardrail attachment, improper lap (PAR) southwest guardrail, 15 feet from bridge, impact damage (10 feet) (PAR) southeast guardrail termination, impact damage with leaning end post						



(PAR) northeast guardrail termination, end post split with disconnected termination block



(PAR) southeast guardrail attachment, improper lap



(PAR) southwest guardrail, 15 feet from bridge, impact damage (10 feet)



(PAR) southeast guardrail termination, impact damage with leaning end post



along the curblines, debris accumulation (up to 2 feet wide x 4 inches wide) with vegetation, with multiple clogged drains



Span 4 Deck: SPAN 4 TOP OF DECK HAS SCATTERED sound and unsound PATCHES [up to 2 foot diameter x up to 1/2 inch deep]



Span 4 Deck: SPAN 4 TOP OF DECK HAS SCATTERED sound and unsound PATCHES [up to 2 foot diameter x up to 1/2 inch deep]



Span 4 Deck: SPAN 4 TOP OF DECK HAS MAP CRACKING UP TO 1/16 INCH AND COARSE AGGREGATE EXPOSED THROUGH OUT.



Span 4 Bent 3 Joint: along the length of the joint, areas of adhesion loss at random



Span 4 Bent 3 Joint: both shoulders, debris accumulation



Span 4 Bent 3 Joint: along the headers, transverse cracks (up to 1/32 inch x 6 inches) at random



Span 3 Deck: 2023 previously repaired, previously noted as: in Southbound lane 10 feet from joint over bent 3, spall [up to 28 inch x up to 18 inch x up to 2 inch deep] with (1) exposed rusted reinforcing no section loss



Span 3 Deck: (PAR) SPAN 3 TOP OF DECK HAS SCATTERED sound and unsound PATCHES [up to 8 feet x up to 4 feet x up to 1.5 inches deep] some with depressions; with adjacent spalls/delaminations (up to 1.5 foot diameter x 1.5 inches deep)



Span 3 Deck: (PAR) SPAN 3 TOP OF DECK HAS SCATTERED sound and unsound PATCHES [up to 8 feet x up to 4 feet x up to 1.5 inches deep] some with depressions; with adjacent spalls/delaminations (up to 1.5 foot diameter x 1.5 inches deep)



Span 3 Left Bridge Rail: adjacent to joint over bent 3, sound patched area [4 feet x 11 inches] with associated hairline map cracking



Span 3 Left Bridge Rail: along curb, wraparound vertical cracks [up to 1/32 inch]



Span 2 Deck: 2023 previously repaired, previously noted as: in Northbound lane near midspan, (2) spalls [up to 16 inch x 21 inch x up to 2 inch deep] with (2) exposed rusted reinforcing no section loss



Span 2 Bent 1 Joint: (PAR) spans 1 and 2 header, in both travel lanes, delaminations (up to 12.5 feet x 6 inches) with cracks (up to 1/8 inch) and separated from adjacent deck (up to 1/2 inch)



Span 2 Bent 1 Joint: (PAR) spans 1 and 2 header, in both travel lanes, delaminations (up to 12.5 feet x 6 inches) with cracks (up to 1/8 inch) and separated from adjacent deck (up to 1/2 inch)



Span 1 Left Bridge Rail: at Southwest guardrail attachment in top of rail post, spall [10 inches x 10 inches x 1.5 inches deep] no exposed reinforcing



Span 2 Left Bridge Rail: face of curb, near bent 1, patched area (34 feet x 9 inch) with cracks (up to 1/32 inch)



Span 1 Deck: along end bent 1, multiple edge spalls [up to 6 inches x 2 inches x 1 inch deep]



Span 1 Deck: scattered throughout top of deck, multiple spalls/delaminations [up to 18 inches x up to 20 inches x up to 1.5 inches deep] no exposed reinforcing



Span 1 Deck: (PAR) northbound lane, adjacent to bent 1 and right shoulder, shallow rebar; rebar has less than 5 percent section loss



Span 2 Deck: (PAR) right shoulder, at bent 2, spall (1 foot x 6 inch x 1 inch deep) with exposed rusted rebar



Span 4 Right Bridge Rail: rail, near midspan, spalls (up to 6 inch x 3 inch x 3/4 inch deep) with exposed rusted rebar



Span 1 Beam 4 - Near Bearing 4: painted over section loss (up to 1/8 inch deep) with corrosion reinitiated



End Bent 1 Abutment: at beam penetrations, spall, up to 9 inch x 4 inch



Span 1 Deck: throughout underside of deck, areas of map cracks (hairline), some with efflorescence at random



Span 1 Deck: SPAN 1 BOTTOM OF DECK IN WEST OVER HANG HAS SCATTERED PATCHED AREAS. APPROXIMATELY 20 SQUARE FEET.



Span 1 Deck: (PAR) underside of deck on left overhang, multiple failed patches/spalls [up to 18 inches x 12 inches x up to 1 inch deep] with exposed rusted reinforcing [section loss up to 10 percent]



Span 1 Deck: SPAN 1 BOTTOM OF DECK IN RIGHT OVER HANG HAS SCATTERED unsound PATCHED AREAS with associated delaminations [up to 12 inch diameter]



Span 1 Deck: (PAR) underside of deck on right overhang 20 feet from end bent 1, spall [2 feet x 3 feet x up to 2.5 inches deep] with multiple exposed rusted reinforcing [section loss up to 10 percent]



Span 1 Deck: at bent 1, bay 2 end diaphragm, spall/delamination (4 feet x 6 inch x 2 inch deep)



Span 2 Deck: (PAR) SPAN 2 BOTTOM OF DECK WEST OVERHANG HAS SCATTERED unsound PATCHED AREAS THROUGH OUT SPAN with some associated delaminations [up to 30 inch diameter] over traffic



Span 2 Deck: (PAR) SPAN 2 BOTTOM OF DECK EAST OVER HANG HAS SCATTERED unsound PATCH AREAS THROUGH OUT with associated delaminations [up to 30 inch diameter] over traffic



Span 2 Beam 4: along length, scattered spot rust



Span 2 Deck: (PAR) bay 3, adjacent to beam 3, near 2nd intermediate diaphragm, rust stains



Span 2 Deck: at bents 1 and 2, end diaphragm, in all bays, spalls/delaminations/unsound patches (up to 2.5 feet x 10 inch x 3 inches deep) with exposed rusted rebar at random



Span 1 Beam 1: (PAR) at bent 1, painted over section loss: web adjacent to diaphragm (5/16 inch average remaining x 12 inch x 5 inch); lower web (7/16 inch average remaining x 15 inches x 2 inches) with corrosion reinitiated



Span 2 Beam 1: (PAR) at bent 1, web adjacent to diaphragm, corrosion with section loss (1/4 inch average remaining x 15 inch x 7 inch); painted over pitting: lower web (up to 1/16 inch deep x 3 feet x 6 inches), bottom flange (1/8 inch deep x 2 feet)



Span 2 Beam 2: (PAR) near end web at diaphragm, arrested metal loss/pitting, 12 inch long x up to 2 inch high x average remaining 5/16 inch with reactivated surface corrosion



Span 1 Beam 2: (PAR) at bent 1, painted over section loss: web at end diaphragm (5/16 inch average remaining 12 inches long x up to 2 inches wide) with reactivated surface corrosion; lower web (3/8 inch average remaining x 15 inch x 3 inch)



Span 1 Beam 2 - Far Bearing 2: (PAR) rust scale; right anchor bolt, painted over section loss (50 percent average remaining)



Bent 1 Cap 1: south face, below beams 2 and 3, vertical and longitudinal cracks (up to 1/8 inch x 5 feet)



Span 1 Beam 3: (PAR) at bent 1, web adjacent to diaphragm, corrosion with section loss (1/4 inch average remaining x 12 inch x 6 inch); painted over section loss: lower web (5/16 inch average remaining x 16 inch x 3 inch), bottom flange (0.63 inch average remaining x 15 inches)



Span 1 Beam 3 - Far Bearing 3: rust scale/pack rust



Span 2 Beam 3: (PAR) at bent 1, painted over section loss: web adjacent to diameter (5/16 inch average remaining x 14 inch x 3 inch); lower web (3/8 inch average remaining x 3 feet x 3 inches) with corrosion reinitiated



Span 2 Beam 3 - Near Bearing 3: painted over section loss (up to 1/4 inch deep); pack rust



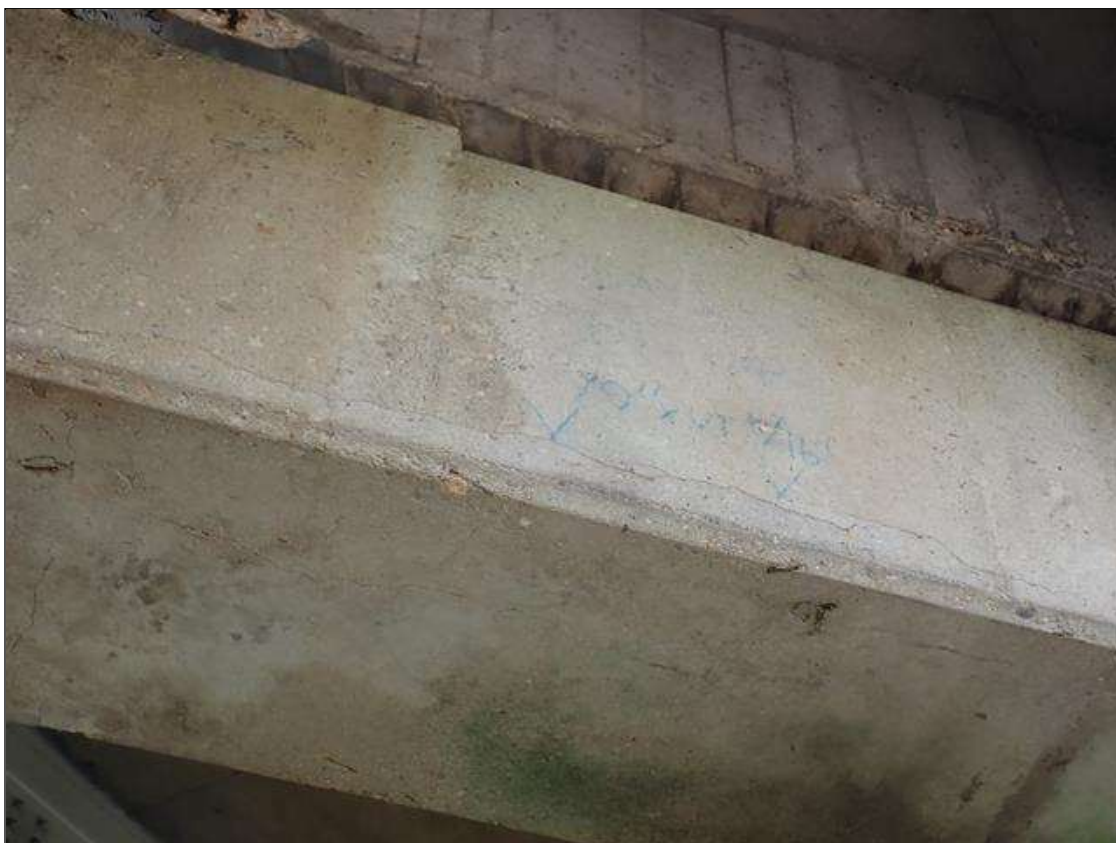
Span 2 Beam 4: (PAR) at bent 1, web adjacent to diaphragm, corrosion with section loss (3/16 inch average remaining x 18 inch x 5 inch); painted over section loss: lower web (5/16 inch average remaining x 5.5 feet x 4 inches); bottom flange, painted over pitting (up to 1/8 inch deep x 2.5 feet)



Span 1 Beam 4: (PAR) at bent 1, painted over section loss: web adjacent to diaphragm (5/16 inch average remaining x 12 inch x 3 inch) lower web (5/16 inch average remaining x 10 inch x 2 inch); bottom flange (0.63 inch average remaining x 6 inches) with corrosion reinitiated



Span 1 Beam 4 - Far Bearing 4: (PAR) corrosion with section loss (up to 1/8 inch); right anchor bolt (50 percent average remaining)



Bent 1 Cap 1: south, and north face, and underside of cap, longitudinal and vertical cracks (up to 1/8 wide x 7 feet) at random



Bent 1 Pile 2: East face under cap, delamination [5 feet x 19 inches]



Bent 1 Pile 2: UP TO 3 FOOT X 1/32 VERTICAL CRACK WEST FACE AT BOTTOM OF CAP



Bent 1 Pile 3: on East and West faces of pile, delaminations [up to 18 inch x 1 foot]



Bent 1 Pile 3: northwest corner, near ground, spall (10 inch x 4 inch x 1.5 inch deep)



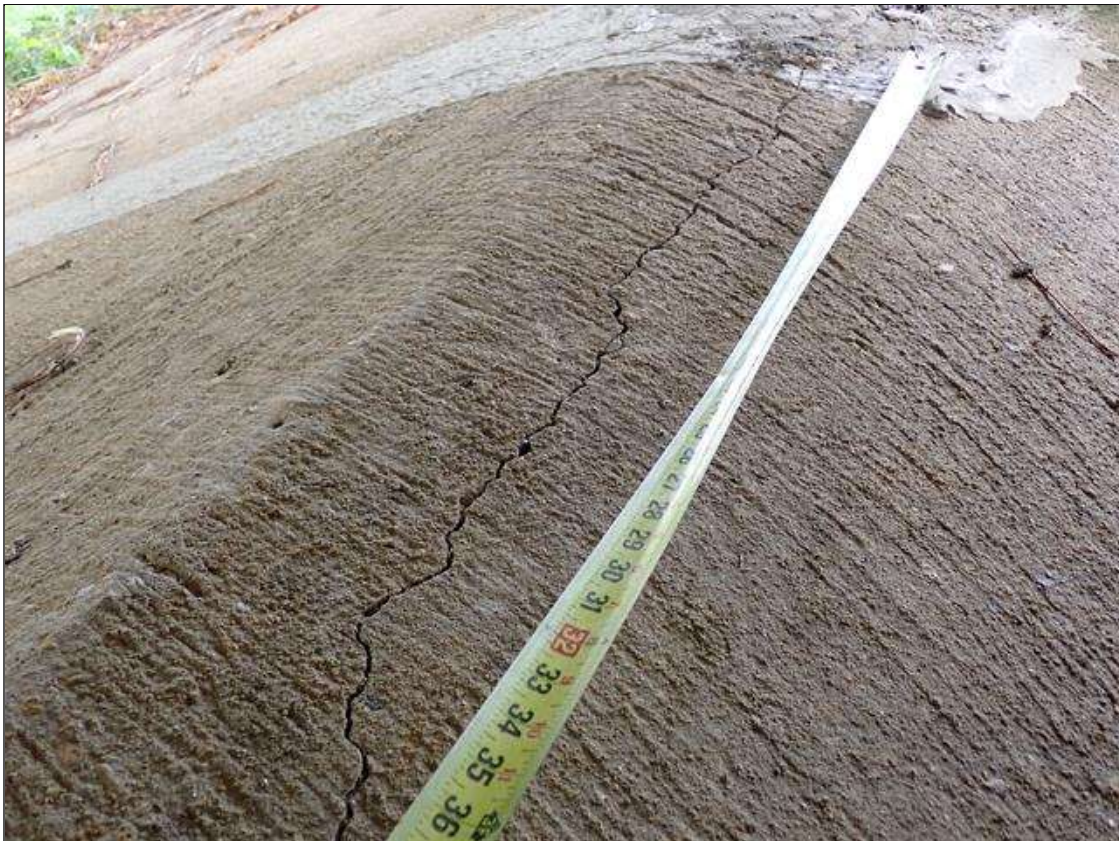
Bent 1 Pile 1: west face, near ground, poor consolidation (up to 5 feet x 1 foot x 1 inch deep) with associated vertical cracks (up to 1/8 inch wide x 3.5 feet)



End Bent 2 Cap 1: along length, multiple vertical crack, up to full height x 1/64 inch, some extend across top face



end bent 2 slope protection, in bay 1, near cap, settlement (up to 3 inches) with adjacent longitudinal crack (up to 1/8 inch x 10 feet)



end bent 2 slope protection, in bay 1, near cap, settlement (up to 3 inches) with adjacent longitudinal crack (up to 1/8 inch x 10 feet)



Span 4 Beam 1 - Far Bearing 1: painted over section loss (up to 3/16 inch deep) with corrosion reinitiated



Span 4 Deck: SPAN 4 BOTTOM OF LEFT OVERHANG HAS multiple failed PATCH AREAS/DELAMINATIONS (up to 2 feet x 15 inch) THROUGH OUT THE SPAN



Span 4 Deck: throughout underside of deck, areas of map cracks (hairline) at random



Span 4 Deck: underside right overhang at midspan, spall with adjacent delamination, 34 inch x 18 inch x 2 inch deep



Span 3 Deck: (PAR) left overhang near mid span, spall [8 inch x 4 inch x 1 inch deep] with exposed rusted reinforcing [no measurable loss]



Span 3 Deck: [PAR] along left overhang, multiple failed patches with associated delaminations [up to 30 inch diameter] over traffic



Span 3 Deck: [PAR] SPAN 3 BOTTOM OF DECK RIGHT OVER HANG HAS SCATTERED UNSOUND PATCHED AREAS THROUGH OUT THE SPAN WITH ASSOCIATED DELAMINATIONS [UP TO 18 INCH X UP TO 3 FEET] OVER TRAFFIC



Span 3 Beam 4: (PAR) COVER PLATE OVER RIGHT TRAVEL LANE AND SHOULDER, IMPACT SCRAPES WITH GOUGES (APPROXIMATELY 1/2 INCH DEEP)



Span 3 Beam 4: (PAR) cover plate over right travel lane and shoulder, impact scrapes with gouges (approximately 1/2 inch deep)



Span 3 Deck: at bents 2 and 3, end diaphragm, in all bays, spalls/delaminations/unsound patches (up to 5 feet x 6 inch x 2 inches deep) with exposed rusted rebar



Span 4 Beam 4: (PAR) at bent 3, painted over section loss: web adjacent to diaphragm (5/16 inch average remaining x 9 inch x 2 inch); lower web (7/16 inch average remaining x 1 foot x 3 inch); bottom flange (0.75 inch average remaining x 6 inches) with corrosion reinitiated



Bent 3 Cap 1: north face of cap, bay 3 to right end, delamination/unsound patches/spalls (up to 7.5 feet x 1 foot x 1/2 inch deep) with associated cracks (up to 1/16 inch)



Bent 3 Cap 1: north face of cap, bay 3 to right end, delamination/unsound patches/spalls (up to 7.5 feet x 1 foot x 1/2 inch deep) with associated cracks (up to 1/16 inch)



Bent 3 Cap 1: north face, below bays 1 and 2, longitudinal crack (up to 1/16 inch x 20 feet)



Span 4 Beam 3: (PAR) at bent 3, web adjacent to diaphragm, corrosion with section loss (5/16 inch average remaining x 14 inch x 6 inch); painted over section loss: lower web (3/8 inch average remaining x 1 foot x 2 inches), bottom flange (0.65 inch average remaining x 1 foot)



Span 4 Beam 3 - Near Bearing 3: (PAR) corrosion with section loss (up to 1/4 inch deep); left anchor bolt (75 percent section loss)



Span 4 Beam 3 - Near Bearing 3: (PAR) west side of bearing, between sole and beam bottom flange, broken weld



Span 3 Beam 3: (PAR) at bent 3, web adjacent to diaphragm, corrosion with section loss (3/8 inch average remaining x 13 inch x 1.5 inch)



Span 3 Beam 2: (PAR) at bent 3, web adjacent to diaphragm, corrosion with section loss (3/8 inch average remaining x 14 inch x 2 inch)



Span 4 Beam 2 - Near Bearing 2: SURFACE RUST/PACK RUST ON THE BEARING PLATES.



Span 4 Beam 1 - Near Bearing 1: rust scale; both anchor bolts (approximately 10 percent section loss)



Span 4 Beam 1: (PAR) at bent 3, web adjacent to diaphragm, corrosion with section loss (1/4 inch average remaining x 15 inch x 4 inch)



Span 3 Beam 1: (PAR) at bent 3, web adjacent to diaphragm, corrosion with section loss (5/16 inch average remaining x 1 foot x 3 inch)



Bent 3 Cap 1: south face, upper and lower edges, longitudinal cracks (up to 1/8 inch x full length) with adjacent delaminations (up to 8 feet x 8 inch)



Bent 3 Cap 1: south face, upper and lower edges, longitudinal cracks (up to 1/8 inch x full length) with adjacent delaminations (up to 8 feet x 8 inch)



Span 2 Beam 4: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (1/4 inch average remaining x 14 inch x 8 inch) with adjacent pitting (up to 1/8 inch deep) with corrosion reinitiated



Span 3 Beam 4: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 12 inch x 6 inch); lower web, painted over pitting (up to 1/8 inch deep x 1 foot x 3 inches) with corrosion reinitiated



Span 3 Beam 3: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (1/4 inch average remaining x 14 inch x 3 inch) with adjacent painted over pitting (up to 1/8 inch deep) with corrosion reinitiated



Span 2 Beam 3: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 9 inch x 1 inch); lower web, painted over pitting (up to 1/8 inch deep x 3 inch x 3 inch) with corrosion reinitiated



Span 2 Beam 3 - Far Bearing 3: painted over section loss (up to 1/8 inch deep) with corrosion reinitiated; pack rust



Bent 2 Cap 1: south and north faces of cap, multiple delaminations/spalls (up to 8 feet x 2 feet x 1.5 inch deep), some with exposed rusted rebar and associated cracks (up to 1/8 inch wide)



Bent 2 Cap 1: south and north faces of cap, multiple delaminations/spalls (up to 8 feet x 2 feet x 1.5 inch deep), some with exposed rusted rebar and associated cracks (up to 1/8 inch wide)



Bent 2 Cap 1: south and north faces of cap, multiple delaminations/spalls (up to 8 feet x 2 feet x 1.5 inch deep), some with exposed rusted rebar and associated cracks (up to 1/8 inch wide)



Bent 2 Cap 1: south and north faces of cap, multiple delaminations/spalls (up to 8 feet x 2 feet x 1.5 inch deep), some with exposed rusted rebar and associated cracks (up to 1/8 inch wide)



Bent 2 Pile 1: West face below cap, sound patch [8 inch x 2 feet] with cracks [up to 1/32 inch]



Bent 2 Cap 1: BENT 2 NORTH FACE OF CAP HAS AN UNSOUND PATCHED AREA (2 FEET X 15 INCH) WEST SIDE OF BEAM 1.



Bent 2 Pile 2: West and East faces, delamination [up to 14 inch x 11 inch] with associated map cracking up to 1/32 inch with efflorescence



Span 2 Deck: (PAR) on right overhang at bent 2, spall [7 inch x 1 inch x 1/2 inch deep] with exposed rusted reinforcing



Span 2 Deck: (PAR) underside of right overhang near bent 2, multiple transverse cracks [up to 1/64 inch] with some efflorescence buildup



Span 2 Deck: (PAR) underside of bay 2, at bent 2, shallow rusted rebar



Span 2 Beam 4 - Far Bearing 4: right anchor bolt nut, painted over section loss up to 10 percent with corrosion reinitiated



Span 3 Deck: (PAR) underside of bays 1 and 3, adjacent to beams, areas of rust stains at random



Span 3 Deck: underside of bays 2 and 3, near half of span, areas of poor consolidation (up to 3.5 feet x 15 inch x 1 inch deep)



Span 3 Deck: underside of bays 2 and 3, near half of span, areas of poor consolidation (up to 3.5 feet x 15 inch x 1 inch deep)



Span 2 Deck: (PAR) bays 2 and 3, adjacent to beams, areas of rust stains at random



Span 2 Beam 1: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 6 inch x 1 inch); underside of bottom flange, painted over pitting (up to 1/8 inch deep x 6 inches) with corrosion reinitiated



Span 2 Beam 1 - Far Bearing 1: FRECKLED RUST/PACK RUST ON ON THE BEARING PLATES.



Span 3 Beam 1: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 14 inch x 4 inch); lower web, painted over pitting (up to 1/8 inch deep x 17 inch x 6 inch) with corrosion reinitiated



Span 3 Beam 2: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (1/4 inch average remaining x 15 inch x 2 inch) with corrosion reinitiated



Span 2 Beam 2: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 9 inch x 1 inch) with corrosion reinitiated



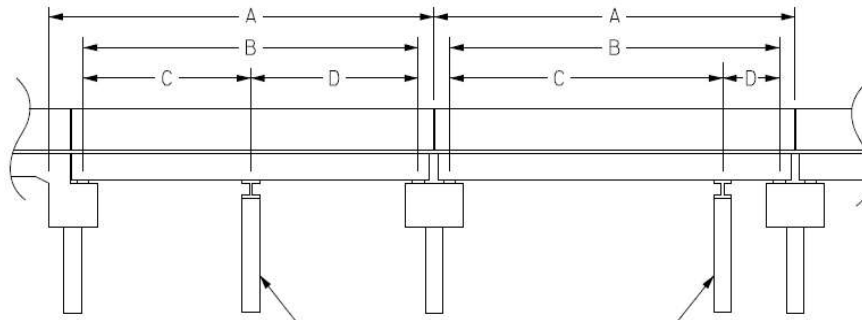
Span 2 Beam 2 - Far Bearing 2: painted over section loss (up to 1/8 inch deep) with corrosion reinitiated; pack rust

Structure Data Worksheet

Span Profile

County: **BURKE**

Structure Number: **110154**



A: SPAN LENGTH
 B: BEARING TO BEARING
 C: DISTANCE FROM NEAR BEARING
 D: DISTANCE TO FAR BEARING

Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	58.500	54.000			
2	76.420	75.250			
3	76.580	75.417			
4	58.500	54.000			

Structure Number: 110154

Span: 2

Route Name: I 40 EBL



roadway under span 2, looking east (I-40 eastbound)

Route Number: 11000400		Route Name: I 40 EBL		Reference Feature: H	
Minimum Vertical Clearance 15.390 feet		Maximum Minimum Vertical Clearance 15.417 feet			
Total Horizontal Clearance 41.060 feet		Lateral Clearances: Left: 13.310 feet Right: 9.300 feet			
<input checked="" type="checkbox"/> Base Highway Network		LRS Inventory Route, Sub Route Number 10040			
Milepost: 112.500	Number of Lanes: 2	ADT: 23500	Year of ADT: 2015	Percentage of Trucks: 16	
<input checked="" type="checkbox"/> National Highway System			<input type="checkbox"/> STRAHNET Highway Designator		
Functional Classification 11 Local Principal Arterial - Interstate		Direction of Traffic: 1 1 - way traffic			

Structure Number: 110154

Span: 3

Route Name: I 40 WBL



roadway under span 3, looking west (I-40 westbound)

Route Number: 11000400		Route Name: I 40 WBL		Reference Feature: H	
Minimum Vertical Clearance 14.620 feet		Maximum Minimum Vertical Clearance 14.870 feet			
Total Horizontal Clearance 42.190 feet		Lateral Clearances: Left: 14.000 feet Right 9.750 feet			
<input checked="" type="checkbox"/> Base Highway Network		LRS Inventory Route, Sub Route Number 10040			
Milepost: 112.500	Number of Lanes: 2	ADT: 23500	Year of ADT: 2015	Percentage of Trucks: 16	
<input checked="" type="checkbox"/> National Highway System			<input type="checkbox"/> STRAHNET Highway Designator		
Functional Classification 11 Local Principal Arterial - Interstate		Direction of Traffic: 1 1 - way traffic			

Bridge Inspection Field Sketch



Roadway	22.5ft Wide	2 Paved Lanes	Looking North
Left Shoulder	10.5ft Wide	2.5ft Paved	8ft Unpaved
Right Shoulder	3.25ft Wide	1.25ft Paved	2ft Unpaved
Left Guardrail			
Right Guardrail			

Measurements taken approximately 500 feet from end bent 1

Title
APPROACH ROADWAY

Description
LOOKING NORTH

Structure No: 110154

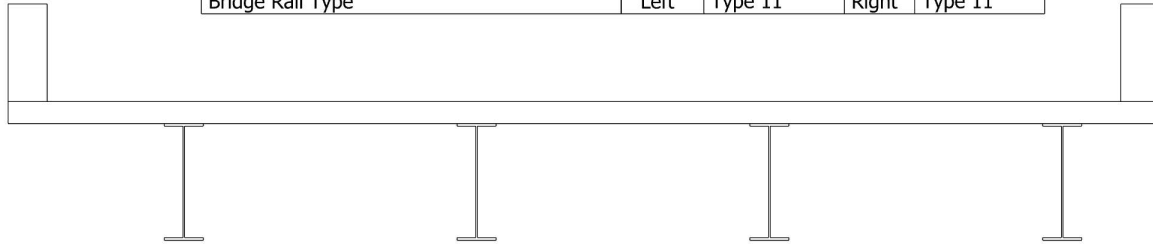
Drawn By: ITChapman

Date: 8/9/2023

Filename: S000918000430.wes

Bridge Inspection Field Sketch

Deck Width/Out to Out	31.5ft	Between Rails	29.333ft	
Clear Roadway	26ft	Wearing Surface		
Median Width		Median Height		
Curb Height		Left	9.5in	Right 9.5in
Sidewalk Width		Left	18.5in	Right 18.5in
Clear Roadway (Rail to Median)		Left		Right
Guardrail Width		Left	10in	Right 10in
Top of Rail to Deck/Wearing Surface		Left	2.5ft	Right 2.5ft
Bridge Rail Type		Left	Type 11	Right Type 11



Measurements for Span #	1-4		
Deck Thickness	6.75in	Left Overhang	4.5ft
Top of Rail to Bottom of Beam (Avg)	6.052ft	Right Overhang	4.5ft

Beam #	Beam Type	Width	Height	Spacing	From
1	Plate Girder	12in	35.87in	4.5ft	Left Edge of Deck
2	Plate Girder	12in	35.87in	7.5ft	Beam 1
3	Plate Girder	12in	35.87in	7.5ft	Beam 2
4	Plate Girder	12in	35.87in	7.5ft	Beam 3

BEAMS: 34-1/4" between flanges, 12" wide x 13/16" thick flange, 9/16" web
 Span 2 & 3 cover plates: 47' long x 10-1/2" wide x 1" thick

Title
TYPICAL SECTION

Description
LOOKING NORTH

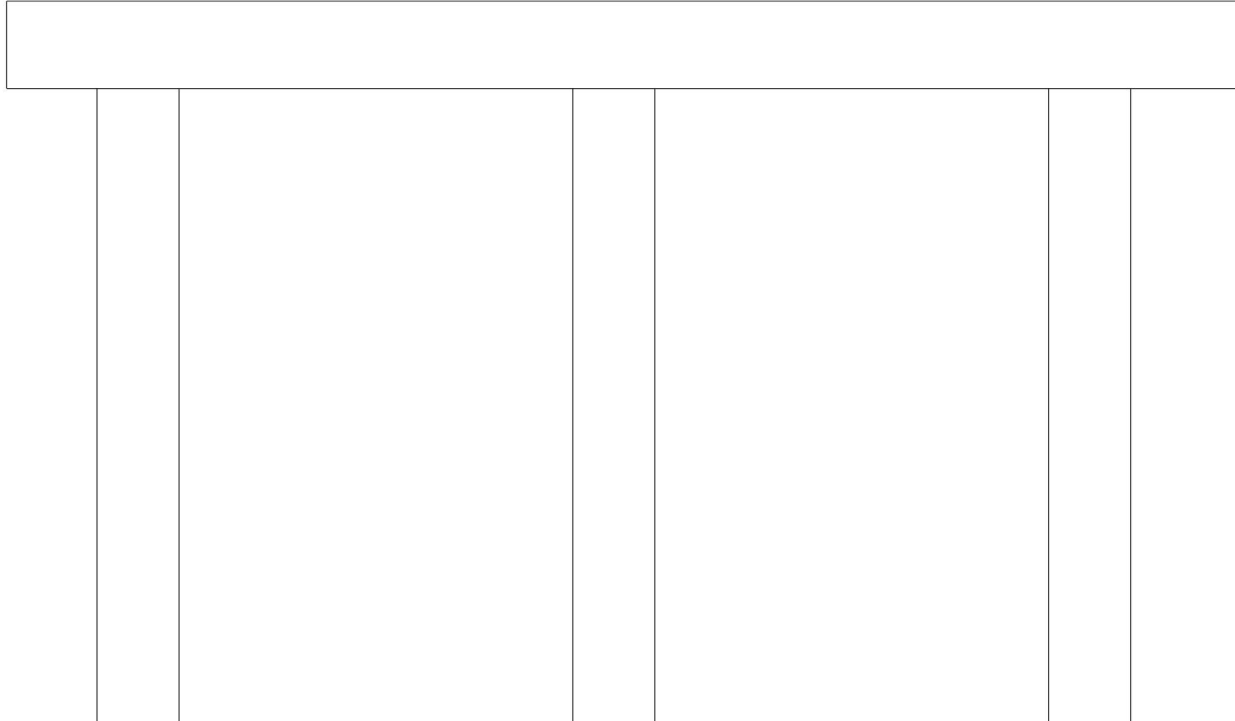
Structure No: 110154

Drawn By: ITChapman

Date: 8/9/2023

Filename: S000918000431.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	37ft	30in	32in	1ft	1ft
Piles							
#	Name	Type	Spacing	From	Height/Diam.	Width	Length
1	Pile 1	Reinforced Concrete Column	4ft	Left End of Bent	30in	30in	
2	Pile 2	Reinforced Concrete Column	14.5ft	Pile 1	30in	30in	
3	Pile 3	Reinforced Concrete Column	14.5ft	Pile 2	30in	30in	

Title
BENTS 1-3

Description
LOOKING NORTH

Structure No: 110154

Drawn By: ITChapman

Date: 8/9/2023

Filename: S000918000432.wes



northwest guardrail termination



northwest guardrail



northeast guardrail termination



northeast guardrail



north approach looking south



northeast guardrail attachment



end bent 2 asphalt



bent 3 joint



north approach looking north



northwest guardrail attachment



northwest guardrail transition



bent 2 joint



roadway looking west



roadway looking east



bent 1 joint



south approach looking south



southeast guardrail attachment



southeast guardrail transition



southeast guardrail



end bent 1 deck



southwest guardrail attachment



southwest guardrail



south approach looking north



southwest guardrail termination



southeast guardrail termination



right bridge rail



left bridge rail



bridge deck



bridge plaque



end bent 1 slope protection



superstructure underside, span 1 (span 4 similar)



superstructure underside, span 2 (span 3 similar)



typical bottom flange cover plate end, spans 2 and 3



intermediate diaphragm



end diaphragm



roadway under span 2, looking east (I-40 eastbound)



west profile looking east



southeast wingwall



end bent 1



end bearing assembly



southwest wingwall



ladder used



interior bearing assembly



beams over bent



bent 1



bent 2



bent 3



end bent 2 slope protection



roadway under span 3, looking west (I-40 westbound)



east profile looking west



northwest wingwall



end bent 2



northeast wingwall