



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 STRUCTURE MANAGEMENT UNIT

ATTENTION: prompt action request, sketches revised, clearances revised, resurfaced with no change in asphalt wearing surface thickness

Structure Safety Report

Routine Element Inspection - Contract

STRUCTURE NUMBER: 110171 SAP STRUCTURE NO: 0120171 FHWA STRUCTURE NO: 00000000230171

DIVISION: 13 COUNTY: BURKE INSPECTION DATE: 10/04/2023 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1761 MILE POST: _____

LOCATION: .1 MI.N.JCT.SR1770

FEATURE INTERSECTED: I40

LATITUDE: 35° 42' 35.22" LONGITUDE: 81° 26' 22.9"

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON I-BEAMS

SUBSTRUCTURE: E.BTS:RC.CAPS/TIM.PILES;INT.BTS:RC 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 5/5 SUPERSTRUCTURE 6/6 SUBSTRUCTURE 6/6 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 Isayah Chapman
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NATIONAL BRIDGE INVENTROY ----- STRUCTURE INVENTORY AND APPRAISAL

12/21/2023

IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE 110171
 (8) STRUCTURE NUMBER (FEDERAL) 0230171
 (5) INVENTORY ROUTE (ON/UNDER) ON 31017610
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 13
 (3) COUNTY CODE (FEDERAL) 23 (4) PLACE CODE 31500
 (6) FEATURE INTERSECTED 140
 (7) FACILITY CARRIED SR1761
 (9) LOCATION .1 MI.N.JCT.SR1770
 (11) MILEPOINT 0.0
 (12) BASE HIGHWAY NETWORK 0
 (13) LRS INVENTORY ROUTE & SUBROUTE 0
 (16) LATITUDE 35° 42' 35.22" (17) LONGITUDE 81° 26' 22.9"
 (98) BORDER BRIDGE STATE CODE PERCENT SHARED
 (99) BORDER BRIDGE STRUCTURE NUMBER

SUFFICIENCY RATING 78.89

STATUS =

CLASSIFICATION **CODE**

(112) NBIS BRIDGE SYSTEM Y
 (104) HIGHWAY SYSTEM Inventory Route not on NHS 0
 (26) FUNCTIONAL CLASS Urban Collector 17
 (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 6
 (B) TYPE OF MEMBRANE CODE 0
 (C) TYPE OF DECK PROTECTION CODE 0

CONDITION **CODE**

(58) DECK 5
 (59) SUPERSTRUCTURE 6
 (60) SUBSTRUCTURE 6
 (61) CHANNEL & CHANNEL PROTECTION N
 (62) CULVERTS N

LOAD RATING AND POSTING **CODE**

(31) DESIGN LOAD HS 15 3
 (63) OPERATING RATING METHOD - Load Factor 1
 (64) OPERATING RATING - HS-32 58
 (65) INVENTORY RATING METHOD - 1
 (66) INVENTORY RATING HS-19 35
 (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 4
 (29) AVERAGE DAILY TRAFFIC 4200
 (30) YEAR OF ADT 2021 (109) TRUCK ADT PCT 7
 (19) BYPASS OR DETOUR LENGTH 2.0

APPRAISAL **CODE**

(67) STRUCTURAL EVALUATION 6
 (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 65.0
 (49) STRUCTURE LENGTH 237.0
 (50) CURB OR SIDEWALK: LEFT 3.1 RIGHT 3.1
 (51) BRIDGE ROADWAY WIDTH, CURB TO CURB 26.0
 (52) DECK WIDTH OUT TO OUT 34.4
 (32) APPROACH ROADWAY WITH (W/ SHOULDERS) 28.0
 (33) BRIDGE MEDIAN CODE 5
 (34) SKEW 40 (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 14.7
 (55) MIN LAT UNDERCLEARANCE RT: REFERENCE H 9.2
 (56) MIN LAT UNDERCLEARANCE LT: 13.7

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 8,400 YEAR OF FUTURE ADT 2040

NAVIGATION DATA

(38) NAVIGATION CONTROL - CODE 6
 (111) PIER PROTECTION CODE
 (39) NAVIGATION VERTICAL CLEARANCE 0.0
 (116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR 0.0
 (40) NAVIGATION HORIZONTAL CLEARANCE 0.0

INSPECTION

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

SCOUR

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 E	11000400	14.9	118.1	1	10040	11	2	22500	2015	40.8	H	14.7	8.6	14.5	3		1	<input type="checkbox"/>	<input type="checkbox"/>
3	I 40 W	11000400	15.3	118.1	1	10040	11	2	22500	2015	42.2	H	15.2	9.1	13.8	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 52.420

Skew 50.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
5	Fixed Bearing	Fixed Bearing	5 Each	Inorganic Zinc Pimer with Acrylic Top Coat	5
5	Movable Bearing	Movable Bearing	5 Each	Inorganic Zinc Pimer with Acrylic Top Coat	5
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1805 Square Feet		
5	Plate Girder	Steel Open Girder/Beam	260 Feet	Inorganic Zinc Pimer with Acrylic Top Coat	2535
1	Asphalt Wearing Surface	Wearing Surface	1363 Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	106 Feet		

Span Number 2

Span Length 65.830

Skew 50.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
5	Fixed Bearing	Fixed Bearing	5 Each	Inorganic Zinc Pimer with Acrylic Top Coat	5
5	Movable Bearing	Movable Bearing	5 Each	Inorganic Zinc Pimer with Acrylic Top Coat	5
1	Asphalt Wearing Surface	Wearing Surface	1712 Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	132 Feet		
5	Plate Girder	Steel Open Girder/Beam	330 Feet	Inorganic Zinc Pimer with Acrylic Top Coat	3230
1	Standard Joint	Pourable Joint Seal	34 Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	2269 Square Feet		

Span Number 3

Span Length 65.830

Skew 50.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
5	Plate Girder	Steel Open Girder/Beam	330 Feet	Inorganic Zinc Pimer with Acrylic Top Coat	3230
1	Reinforced Concrete Deck	Reinforced Concrete Deck	2266 Square Feet		
5	Fixed Bearing	Fixed Bearing	5 Each	Inorganic Zinc Pimer with Acrylic Top Coat	5
1	Standard Joint	Pourable Joint Seal	34 Feet		

Superstructure Build Details

1	Asphalt Wearing Surface	Wearing Surface	1712 Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	132 Feet		
5	Movable Bearing	Movable Bearing	5 Each	Inorganic Zinc Pimer with Acrylic Top Coat	5

Span Number 4

Span Length 52.420

Skew 50.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
2	Concrete Railing	Reinforced Concrete Bridge Railing	106 Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1805 Square Feet		
5	Movable Bearing	Movable Bearing	5 Each	Inorganic Zinc Pimer with Acrylic Top Coat	5
5	Fixed Bearing	Fixed Bearing	5 Each	Inorganic Zinc Pimer with Acrylic Top Coat	5
5	Plate Girder	Steel Open Girder/Beam	260 Feet	Inorganic Zinc Pimer with Acrylic Top Coat	2535
1	Asphalt Wearing Surface	Wearing Surface	1363 Square Feet		
1	Standard Joint	Pourable Joint Seal	34 Feet		

Structure Element Scoring

Structure Number: 110171

Inspection Date 10/4/2023

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	8,145	6,535	407	1,203	0
107		Steel Open Girder/Beam	Beam	1,180	849	278	25	28
515	107	Steel Protective Coating	Beam	11,530	11,277	0	249	4
205		Reinforced Concrete Column	Piles and Columns	9	6	2	1	0
215		Reinforced Concrete Abutment	Abutments	98	74	22	2	0
228		Timber Pile	Piles and Columns	21	21	0	0	0
234		Reinforced Concrete Pier Cap	Caps	202	127	19	56	0
301		Pourable Joint Seal	Expansion Joints	102	81	0	0	21
311		Movable Bearing	Bearing Device	20	0	2	18	0
515	311	Steel Protective Coating	Bearing Device	20	0	3	1	16
313		Fixed Bearing	Bearing Device	20	0	15	5	0
515	313	Steel Protective Coating	Bearing Device	20	1	11	4	4
331		Reinforced Concrete Bridge Railing	Bridge Rail	476	409	19	48	0
510		Wearing Surface	Wearing Surfaces	6,150	6,150	0	0	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 110171

Inspection Date: 10/04/2023

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Delamination/Spall	5 Square Feet
3326	Reinforced Concrete Deck	Cracking (RC and Other)	386 Square Feet
3326	Reinforced Concrete Deck	Exposed Rebar	19 Square Feet
3326	Reinforced Concrete Deck	Efflorescence/Rust Staining	1200 Square Feet
3314	Steel Open Girder/Beam	Damage	4 Feet
3314	Steel Open Girder/Beam	Corrosion	33 Feet
3314	Steel Open Girder/Beam	Distortion	20 Feet
3348	Reinforced Concrete Column	Delamination/Spall	6 Each
3350	Reinforced Concrete Abutment	Delamination/Spall	10 Feet
3350	Reinforced Concrete Abutment	Efflorescence/Rust Staining	2 Feet
3348	Reinforced Concrete Pier Cap	Patched Area	4 Feet
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	32 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	39 Feet
3310	Pourable Joint Seal	Seal Damage	21 Feet
3334	Movable Bearing	Connection	2 Each
3334	Movable Bearing	Corrosion	16 Each
3334	Fixed Bearing	Corrosion	3 Each
3334	Fixed Bearing	Connection	2 Each
3318	Reinforced Concrete Bridge Railing	Delamination/Spall	58 Feet
3318	Reinforced Concrete Bridge Railing	Exposed Rebar	5 Feet
3318	Reinforced Concrete Bridge Railing	Cracking (RC and Other)	1 Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	289 Square Feet

Element Structure Maintenance Quantities

Structure Number: 110171

Inspection Date 10/04/2023

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Beam	3314	Maintenance Steel Superstructure Components	57	1180	28.000	25.000	278.000	849.000
Beam	3342	Clean and Paint Steel	250	11530	4.000	249.000	0.000	11277.000
Bearing Device	3334	Bridge Bearing	18	20	0.000	18.000	2.000	0.000
Bearing Device	3334	Bridge Bearing	5	20	0.000	5.000	15.000	0.000
Bearing Device	3342	Clean and Paint Steel	20	20	16.000	1.000	3.000	0.000
Bearing Device	3342	Clean and Paint Steel	19	20	4.000	4.000	11.000	1.000
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	64	476	0.000	48.000	19.000	409.000
Deck	3326	Maintenance of Concrete Deck	1610	8145	0.000	1203.000	407.000	6535.000
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	21	102	21.000	0.000	0.000	81.000
Wearing Surfaces	2816	Asphalt Surface Repair	0	6150	0.000	0.000	0.000	6150.000
Abutments	3350	Maintenance of Concrete Wings and Wall	12	98	0.000	2.000	22.000	74.000
Caps	3348	Maintenance of Concrete Substructure	75	202	0.000	56.000	19.000	127.000
Piles and Columns	3344	Maintenance To Timber Substructure	0	21	0.000	0.000	0.000	21.000
Piles and Columns	3348	Maintenance of Concrete Substructure	6	9	0.000	1.000	2.000	6.000

Priority Actions Request

Structure Number 110171

Span1

3326	Deck	Reinforced Concrete Deck	
Priority Level	Defect Type	Quantity	Defect Description
1	Efflorescence/Rust	300	Span 1 Deck: (PAR) underside of all bays, transverse and map cracks (up to 1/32 inch) with efflorescence buildup and some rust stains at random
2	Exposed Rebar	8	Span 1 Deck: (PAR) both overhangs, delaminations/spalls (up to 4 inch diameter x 1/2 inch deep) with exposed rusted rebar at random
3314	Beam 1	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 1: (PAR) at bent 1, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 9 inch x 2 inch) with corrosion reinitiated
3314	Beam 2	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 2: (PAR) at bent 1, web adjacent to diaphragm, painted over section loss (1/4 inch average remaining x 10 inch x 2 inch)
3314	Beam 3	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 3: (PAR) at bent 1, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 10 inch x 1 inch) with adjacent painted over pitting (up to 1/8 inch deep x 2 inch x 3 inch) with corrosion reinitiated
3314	Beam 4	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 4: (PAR) at bent 1, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 7 inch x 1 inch) with corrosion reinitiated
3314	Beam 5	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 5: (PAR) at bent 1, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 9 inch x up to 2 feet) with corrosion reinitiated; top flange, rust scale

Span2

3326	Deck	Reinforced Concrete Deck	
Priority Level	Defect Type	Quantity	Defect Description
?	Priority Action Request (PAR)	1	Assigned Routine Maintenance
2	Assigned Priority Maintenance		
3	Assigned Critical Find		

Priority Actions Request

Structure Number 110171

①	Efflorescence/Rust	300	Span 2 Deck: (PAR) throughout underside of deck, in all bays, transverse cracks (up to 1/32 inch x full width) and areas of map cracks (hairline) with efflorescence buildup and some rust stains
②	Exposed Rebar	8	Span 2 Deck: (PAR) 8 - spalls with exposed reinforcing up to 2 inch diameter x 1/2 inch deep, underside of right overhang, at random.

3334 **Beam 1** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
②	Connection	1	Span 2 Beam 1 - Far Bearing 1: (PAR) stacked plates, laterally misaligned (up to 1/2 inch) in relation to sole plate; no anchor bolts installed through beam
②	Connection	1	Span 2 Beam 1 - Near Bearing 1: (PAR) stacked plates, laterally misaligned (up to 1/2 inch) in relation to sole plate; no anchor bolts installed

3314 **Beam 2** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
②	Corrosion	1	Span 2 Beam 2: (PAR) at bent 1, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 9 inch x 1 inch)
②	Connection	1	Span 2 Beam 2 - Far Bearing 2: (PAR) along east face, between sole plate and bottom flange, broken weld; right anchor bolt nut backed off
②	Distortion	20	Span 2 Beam 2: (PAR) over both travel lanes, underside of bottom flange and cover plate, impact scrapes with gouges (up to 1/2 inch deep); over right travel lane, bottom flange, distorted (up to 1 inch upwards x approximately 1.5 feet); no apparent distress to cover plate welds

3314 **Beam 3** Plate Girder

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

Span3

3326 **Deck** Reinforced Concrete Deck

Priority Level	Defect Type	Quantity	Defect Description
①	Efflorescence/Rust	400	Span 3 Deck: (PAR) throughout underside of deck, in all bays, transverse cracks (up to 1/32 inch x full width) and areas of map cracks (hairline) with efflorescence buildup and rust stains
②	Delamination/Spall	2	Span 3 Deck: [PAR] 19 inch x 16 inch area of delamination on underside of deck in bay 1, over left shoulder

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 (3/8 inch average remaining x 14 inch x 4 inch) with corrosion reinitiated

Priority Actions Request

Structure Number 110171

② Corrosion 4 Span 3 Beam 1: (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 (3/8 inch average remaining x 4 feet x 4 inch) with corrosion reinitiated

3314 Beam 2 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
②	Corrosion	1	Span 3 Beam 2: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 4 inch x 1 inch)

3314 Beam 3 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
②	Corrosion	1	Span 3 Beam 3: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 10 inch x 1 inch) with corrosion reinitiated
②	Corrosion	1	Span 3 Beam 3: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 10 inch x 1 inch)
②	Connection	1	Span 3 Near Bearing 3: (PAR) west face, between sole plate and bottom flange, poor quality weld with voids

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 (3/8 inch average remaining x 9 inch x 5 inch) with corrosion reinitiated
②	Corrosion	1	Span 3 Beam 4: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 5 inch x 1 inch)

3314 Beam 5 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
②	Corrosion	1	Span 3 Beam 5: (PAR) at bent 2, painted over section loss: web adjacent to diaphragm (3/8 inch average remaining x 8 inch x 4 inch); lower web (3/8 inch average remaining x 10 inch x 5 inch) with corrosion reinitiated
②	Corrosion	2	Span 3 Beam 5: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 4 inch x 6 inch); web over bearing, painted over pitting (up to 1/8 inch deep x 18 inch x 10 inch) with corrosion reinitiated

Span4

3326 Deck Reinforced Concrete Deck

Priority Level	Defect Type	Quantity	Defect Description
②	Delamination/Spall	2	Span 4 Deck: (PAR) bay 1, near end bent 1, spall/delamination (15 inch diameter x 1.5 inch deep) with exposed rusted rebar
②	Delamination/Spall	1	Span 4 Deck: (PAR) bay 4, near midspan, spall (10 inch x 1.5 inch deep) with exposed rusted rebar
①	Efflorescence/Rust	200	Span 4 Deck: (PAR) underside of all bays, near bent 3 and end bent 2, transverse cracks (up to 1/32 inch x full width) and map cracks (hairline) with efflorescence buildup and some rust stains at random

④ Priority Action Request (PAR) ① Assigned Routine Maintenance ② Assigned Priority Maintenance ③ Assigned Critical Find

Priority Actions Request

Structure Number 110171

① Exposed Rebar 3 Span 4 Deck: (PAR) 3 - spalls with exposed reinforcing up to 1 inch diameter x 1/2 inch deep, underside of left overhang, intermittent length of span.

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, painted over section loss (3/8 inch average remaining x 6 inch x 4 inch); painted over pitting, lower web (up to 1/8 inch deep x 2 feet x 4 inch) with corrosion reinitiated

3314 Beam 2 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
②	Corrosion	1	Span 4 Beam 2: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 10 inch x 1 inch)

3314 Beam 3 Plate Girder

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

3314 Beam 4 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
②	Corrosion	1	Span 4 Beam 4: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 10 inch x 1.5 inch)

3314 Beam 5 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
②	Corrosion	3	Span 4 Beam 5: (PAR) at bent 3, painted over section loss: web adjacent to diaphragm (1/4 inch average remaining x 10 inch x 4 inch); lower web (3/8 inch average remaining x 2.5 feet x 4 inches) with corrosion reinitiated

Bent 1

3350 Abutment Reinforced Concrete Abutment

Priority Level	Defect Type	Quantity	Defect Description
②	Efflorescence/Rust	1	End Bent 1 Abutment: (PAR) area of rust staining in bay 1.

Bent 2

④ Priority Action Request (PAR) ① Assigned Routine Maintenance ② Assigned Priority Maintenance ③ Assigned Critical Find

Priority Actions Request

Structure Number 110171

3350 Abutment Reinforced Concrete Abutment

Priority Level	Defect Type	Quantity	Defect Description
2	Efflorescence/Rust	1	End Bent 2 Abutment: (PAR) top of abutment, in bay 3, rust stains

Approach 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, impact damage (1 foot)
2		1	(PAR) northwest guardrail attachment, improper lap
2		38	(PAR) northwest guardrail, impact damage (38 feet)
2		1	(PAR) southeast guardrail attachment, improper lap
2		7	(PAR) southeast guardrail transition, impact damage (7 feet) with (1) decayed post
2		1	(PAR) southwest guardrail transition, (1) decayed post
2		25	(PAR) southwest guardrail, areas of impact damage (25 feet total)

Element Condition and Maintenance Data

Structure Number: 110171

Inspection Date: 10/04/2023

Span 1 **Deck**
Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,805	1,477	28	300	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 12	Efflorescence/Rust Staining	(PAR) underside of all bays, transverse and map cracks (up to 1/32 inch) with efflorescence buildup and some rust stains at random	3	300	300	Square Feet
<input checked="" type="checkbox"/> 12	Cracking (RC and Other)	both overhangs, transverse cracks (up to 1/32 inch x full width) at random	2	20	20	Square Feet
<input checked="" type="checkbox"/> 12	Efflorescence/Rust Staining	(combined with other notes 2023) transverse and longitudinal cracks up to 1/32 inch wide with efflorescence, underside of deck in bay 2, near end bent 1.	2			Square Feet
<input checked="" type="checkbox"/> 12	Exposed Rebar	(PAR) both overhangs, delaminations/spalls (up to 4 inch diameter x 1/2 inch deep) with exposed rusted rebar at random	2	8	8	Square Feet
<input checked="" type="checkbox"/> 12	Delamination/Spall	(combined with other notes 2023) 2 - spalls with exposed reinforcing up to 3 inch diameter x 1/2 inch deep, in right overhang, at end bent 1.	1			Square Feet
<input checked="" type="checkbox"/> 12	Delamination/Spall	(combined with other notes 2023) 3 inch diameter x 1/2 inch deep spall with exposed reinforcing and transverse crack up to 1/32 inch wide, in right overhang, 15 feet from end bent 1 (5 others similar at random).	1			Square Feet
<input checked="" type="checkbox"/> 12	Efflorescence/Rust Staining	(combined with other notes 2023) 2 inch x 3 inch area of rust stain underside at end bent 1, by bay 1	1			Square Feet
<input checked="" type="checkbox"/> 12	Efflorescence/Rust Staining	(combined with other notes 2023) transverse and longitudinal cracks up to 1/32 inch wide with efflorescence, underside of deck in bay 3, near bent 1.	1			Square Feet
<input checked="" type="checkbox"/> 12	Efflorescence/Rust Staining	(combined with other notes 2023) transverse and longitudinal cracks up to 1/32 inch wide with efflorescence, underside of deck in bay 4, near midspan.	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	52	24	27	0	1	Feet
515	Steel Protective Coating	507	491	0	16	0	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, painted over section loss (3/8 inch average remaining x 9 inch x 2 inch) with corrosion reinitiated	4	1	1	Feet
<input checked="" type="checkbox"/> 107	Damage	15 inch x 6 inch x 2 inch deep spall with exposed reinforcing in end diaphragm overhang, west side, at bent 1.	3		1	Feet

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<input checked="" type="checkbox"/>	107	Damage	bent 1 end diaphragm at bent 1, patched area (4.5 foot x 1 foot) with hairline cracks with efflorescence; adjacent to beam 2, delamination (1 foot x 6 inch)	3		Feet
<input checked="" type="checkbox"/>	107	Corrosion	along the length of the beam, both flanges and web, areas of surface rust	2	12	Feet
<input checked="" type="checkbox"/>	107	Corrosion	inside face of web, previous grinding (up to 1/16 inch deep); areas painted	2	15	Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	surface rust	3	16	16 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	52	48	3	0	1 Feet
515	Steel Protective Coating	507	504	0	3	0 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, painted over section loss (1/4 inch average remaining x 10 inch x 2 inch)	4	1	1 Feet
<input checked="" type="checkbox"/>	107	Corrosion			
		near end bent 1, both flanges and web, surface rust at random	2	3	Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)			
		near end bent 1, both flanges and web, surface rust at random	3	3	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	52	39	12	0	1 Feet
515	Steel Protective Coating	507	494	0	13	0 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, painted over section loss (5/16 inch average remaining x 10 inch x 1 inch) with adjacent painted over pitting (up to 1/8 inch deep x 2 inch x 3 inch) with corrosion reinitiated	4	1	1 Feet
<input checked="" type="checkbox"/>	107	Corrosion			
		near end bent 1 and bent 1, both flanges and web, surface rust at random	2	12	Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)			
		surface rust	3	13	13 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	52	46	5	0	1 Feet
515	Steel Protective Coating	507	501	0	6	0 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, painted over section loss (3/8 inch average remaining x 7 inch x 1 inch) with corrosion reinitiated	4	1	1 Feet
<input checked="" type="checkbox"/> 107	Corrosion	near end bent 1 and bent 1, both flanges and web, surface rust at random	2	5	Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust	3	6	6 Square Feet

General Comments**Span 1****Beam 5****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	52	48	3	0	1 Feet
515	Steel Protective Coating	507	502	0	4	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, painted over section loss (5/16 inch average remaining x 9 inch x up to 2 feet) with corrosion reinitiated; top flange, rust scale	4	1	1 Feet
<input checked="" type="checkbox"/> 107	Corrosion	near end bent 1 and bent 1, both flanges and web, surface rust at random	2	3	Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	at bent 1, top flange, rust scale	4	1	1 Square Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust	3	4	4 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	53	45	0	8	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 331	Delamination/Spall	8 - spalls with exposed reinforcing up to 14 inch x 2 inch x 1/2 inch deep, in side of rail posts, at random.	3	8	8 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	53	42	11	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 331	Delamination/Spall	16 - spalls with exposed reinforcing up to 2 inch x 1 inch x 1/2 inch deep, in outside face, at random.	2	11	11 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	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 on masonry plate only.	2	1	Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	limited effectiveness of protective coating on masonry plate.	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	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 1 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	surface rust on masonry plate only.	2	1	Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	limited effectiveness of protective coating on masonry plate.	3	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	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 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)	limited effectiveness of protective coating on masonry plate.	3	1	1 Square Feet

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	painted over section loss (up to 3/16 inch deep) and 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 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	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
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<input checked="" type="checkbox"/>	313	Corrosion	surface rust/rust scale	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 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	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 1 Near Bearing 5

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)	limited effectiveness of protective coating.	3	1	1 Square Feet

General Comments

Span 1 Far Bearing 5

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 1 **Wearing Surface**
Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,363	1,363	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 510	Crack (Wearing Surface)	2023 repaved, previously noted as: random areas of map cracking.	1			Square Feet
<input checked="" type="checkbox"/> 510	Patched Area/Pothole (Wearing Surface)	2023 repaved, previously noted as: 2 - up to 20 inch diameter repair patches in south bound lane at end bent 1, unsound with cracks up to 1/8 inch wide, asphalt secure.	1			Square Feet
<input checked="" type="checkbox"/> 510	Patched Area/Pothole (Wearing Surface)	2023 repaved, previously noted as: 3- repair patches up to 6 feet x 4 feet, northbound lane midspan to bent 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	2,269	1,935	34	300	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 12	Efflorescence/Rust Staining	(PAR) throughout underside of deck, in all bays, transverse cracks (up to 1/32 inch x full width) and areas of map cracks (hairline) with efflorescence buildup and some rust stains	3	300	300	Square Feet
<input checked="" type="checkbox"/> 12	Cracking (RC and Other)	transverse cracks up to 1/32 inch wide, some with efflorescence, in both overhangs, intermittent length of span	2	26	26	Square Feet
<input checked="" type="checkbox"/> 12	Exposed Rebar	(PAR) 8 - spalls with exposed reinforcing up to 2 inch diameter x 1/2 inch deep, underside of right overhang, at random.	2	8	8	Square Feet
<input checked="" type="checkbox"/> 12	Cracking (RC and Other)	(combined with other notes 2023) transverse and longitudinal cracks with efflorescence, underside of bay 4, from bent 1 to midspan.	1			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	66	15	51	0	0	Feet
515	Steel Protective Coating	646	600	0	45	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 107	Damage	at bent 2, bay 1 end diaphragm, spall/delamination (3.5 feet x 6 inch x 2 inches deep) with exposed rusted rebar	3			Feet

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<input checked="" type="checkbox"/>	107	Damage	end diaphragm on both sides has been removed with exposed rusted rebar, at both ends, when beam was replaced.	3		2	Feet
<input checked="" type="checkbox"/>	107	Corrosion	at bent 2, top flange, rust scale	2	1		Feet
<input checked="" type="checkbox"/>	107	Corrosion	surface rust at edges of top and bottom flange, at random, along beam.	2	45		Feet
<input checked="" type="checkbox"/>	107	Damage	20 feet from bent 1, bottom flange, impact damage	2			Feet
<input checked="" type="checkbox"/>	107	Distortion	impact scrapes on bottom flange with gouges up to 1/8 inch deep, 20 feet from bent 1.	2	5		Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	at bent 2, top flange, rust scale	4	1	1	Square Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	limited effectiveness of protective coating on flanges at random.	3	45	45	Square Feet

General Comments

beam previously replaced

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	66	44	1	20	1 Feet
515	Steel Protective Coating	646	644	0	1	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, painted over section loss (5/16 inch average remaining x 9 inch x 1 inch)	4	1	1 Feet
<input checked="" type="checkbox"/>	107	Damage	over both travel lanes, impact damage	3		Feet
<input checked="" type="checkbox"/>	107	Distortion	(PAR) over both travel lanes, underside of bottom flange and cover plate, impact scrapes with gouges (up to 1/2 inch deep); over right travel lane, bottom flange and cover plate, distorted (up to 1 inch upwards x approximately 1.5 feet); no apparent distress to cover plate welds	3	20	20 Feet
<input checked="" type="checkbox"/>	107	Corrosion	at bent 2, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 4 inch x 1 inch) with corrosion reinitiated; top flange, upper web and bottom flange, rust scale	2	1	Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	at bent 2, upper web and bottom flange, rust scale	4	1	1 Square Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	at bent 2, web adjacent to diaphragm, surface rust	3	1	1 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	66	47	17	1	1 Feet
515	Steel Protective Coating	646	634	0	11	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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Structure Number: **110171**

Inspection Date: **10/04/2023**

<input checked="" type="checkbox"/>	107	Corrosion	(PAR) at bent 1, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 6 inch x 1 inch); lower web, painted over pitting (up to 1/8 inch deep x 14 inch x 3 inch) with corrosion reinitiated	4	1	1	Feet
<input checked="" type="checkbox"/>	107	Corrosion	at bent 2, corrosion with section loss: web adjacent to diaphragm (7/16 inch x 10 inch x up to 2 feet); top flange (3/4 inch average remaining x 3 inches)	3	1	1	Feet
<input checked="" type="checkbox"/>	107	Corrosion	along the edge of the top flange, surface rust at random	2	10		Feet
<input checked="" type="checkbox"/>	107	Damage	over right travel lane, bottom flange and cover plate, impact damage	2			Feet
<input checked="" type="checkbox"/>	107	Distortion	over right travel lane, underside of bottom flange and cover plate, impact scrapes with surface gouges; left edge of bottom flange, distorted upwards (approximately 1/4 inch x 8 inches)	2	7		Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	at bent 2, corrosion with section loss	4	1	1	Square Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	surface rust	3	11	11	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	66	58	7	1	0 Feet
515	Steel Protective Coating	646	644	0	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/>	107	Corrosion		1	1 Feet
		at bent 2, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 8 inch x 9 inch) with corrosion reinitiated	3		
<input checked="" type="checkbox"/>	107	Corrosion		1	Feet
		at bent 1, web adjacent to diaphragm, surface rust	2		
<input checked="" type="checkbox"/>	107	Damage			Feet
		over right travel lane, bottom flange and cover plate, impact damage	2		
<input checked="" type="checkbox"/>	107	Distortion		6	Feet
		over right travel lane, bottom flange and cover plate, impact scrapes with surface gouges	2		
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)		2	2 Square Feet
		at bents 1 and 2, web adjacent to diaphragm, surface rust	3		

General Comments

Span 2 Beam 5 Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	66	46	18	2	0 Feet
515	Steel Protective Coating	646	636	0	10	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/>	107	Corrosion		1	1 Feet
		at bent 1, web adjacent to diaphragm, web adjacent to diaphragm (7/16 inch average remaining x 6 inch x 3 inch) with corrosion reinitiated	3		

Structure Number: **110171**

Inspection Date: **10/04/2023**

<input checked="" type="checkbox"/>	107	Corrosion	at bent 2, web adjacent to diaphragm, painted over section loss (7/16 inch x 9 inch x 6 inch) with corrosion reinitiated	3	1	1	Feet
<input checked="" type="checkbox"/>	107	Corrosion	along the edge of the top flange, surface rust at random	2	8		Feet
<input checked="" type="checkbox"/>	107	Damage	over both travel lanes, bottom flange and cover plate, impact damage	2			Feet
<input checked="" type="checkbox"/>	107	Distortion	over both travel lanes, bottom flange and cover plate, impact scrapes with surface gouges	2	10		Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	surface rust	3	10	10	Square Feet

General Comments

Span 2 Expansion Joint at Bent 1

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint Seal	34	27	0	0	7 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/>	301	Seal Damage			7 Feet
		both sidewalks, seal damaged/missing	4	7	
<input checked="" type="checkbox"/>	301	Seal Adhesion			Feet
		(2023 joint is asphalt plug joint) asphalt repair patch sealing joint, full width	1		

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	66	54	3	9	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/>	331	Cracking (RC and Other)			1 Feet
		20 feet from bent 1, diagonal crack (1/8 inch wide) with edge spall (4 inch x 1 inch x 1 inch deep)	3	1	
<input checked="" type="checkbox"/>	331	Delamination/Spall			8 Feet
		along the length of the rail, spalls (up to 14 inch x 3 inch x 1 inch deep) with exposed rusted rebar	3	8	
<input checked="" type="checkbox"/>	331	Cracking (RC and Other)			Feet
		near bent 1, vertical cracks (up to 1/32 inch x 9 inches)	2	3	
<input checked="" type="checkbox"/>	331	Delamination/Spall			Feet
		(combined with other notes 2023) 2 - spalls with exposed reinforcing in traffic face up to 1 foot x 3 inch x 1 inch deep, 8 feet from bent 2.	1		

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	66	64	0	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/>	331	Delamination/Spall			2 Feet
		(2) spalls up to 9 inch x 2 inch x 1 inch deep with exposed reinforcing, outside face, near bent 2	3	2	

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	0	1	0	Each
515	Steel Protective Coating	1	1	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 313	Connection	(PAR) stacked plates, laterally misaligned (up to 1/2 inch) in relation to sole plate; no anchor bolts installed through beam or into cap	3	1	1	Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	(not found 2023) limited effectiveness of protective coating	1			Square Feet

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	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 311	Connection	(PAR) stacked plates, laterally misaligned (up to 1/2 inch) in relation to sole plate; no anchor bolts installed through beam and masonry plate anchor bolts too long with disengaged nuts	3	1	1	Each
<input checked="" type="checkbox"/> 311	Corrosion	surface rust.	2			Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	limited effectiveness of protective coating	3	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	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	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 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	1	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 311	Connection	(PAR) along east face, between sole plate and bottom flange, broken weld; right anchor bolt nut backed off	3	1	1 Each
<input checked="" type="checkbox"/> 311	Corrosion	freckled rust.	2		Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	freckled rust	2	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	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)	freckled rust	2	1	1 Square Feet

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	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"/> 311	Corrosion	freckled rust.	2	1	Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	freckled rust	2	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	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	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****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	Corrosion	surface rust/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 5****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	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****Far Bearing 5****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	1	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 311	Corrosion	freckled rust.	2	1	Each

<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	freckled rust	2	1	1	Square Feet
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General Comments

Span 2 Wearing Surface
Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,712	1,712	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	510	Crack (Wearing Surface)	2023 repaved, previously noted as: alligator cracking near midspan in southbound lane.	1		Square Feet
<input checked="" type="checkbox"/>	510	Patched Area/Pothole (Wearing Surface)	2023 repaved, previously noted as: 6 inch diameter full depth pothole, center of Southbound lane 10 feet past bent 1	1		Square Feet
<input checked="" type="checkbox"/>	510	Patched Area/Pothole (Wearing Surface)	2023 repaved, previously noted as: extensive repair patches, in both lanes, from bent 1 to midspan.	1		Square Feet
<input checked="" type="checkbox"/>	510	Patched Area/Pothole (Wearing Surface)	2023 repaved, previously noted as: previously noted as: 2 - repair patches, Southbound lane up to 15 feet from bent 2	1		Square Feet
<input checked="" type="checkbox"/>	510	Patched Area/Pothole (Wearing Surface)	2023 repaved, previously noted as: repair patch, 5 feet x 2.5 feet from centerline to edge of southbound lane, 15 feet from bent 1.	1		Square 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	2,266	1,844	22	400	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input checked="" type="checkbox"/>	12	Efflorescence/Rust Staining	(PAR) throughout underside of deck, in all bays, transverse cracks (up to 1/32 inch x full width) and areas of map cracks (hairline) with efflorescence buildup and rust stains	3	400	400	Square Feet
<input checked="" type="checkbox"/>	12	Cracking (RC and Other)	both overhangs, transverse cracks (up to 1/32 inch x full height), some with efflorescence at random	2	20	20	Square Feet
<input checked="" type="checkbox"/>	12	Delamination/Spall	[PAR] 19 inch x 16 inch area of delamination on underside of deck in bay 1, over left shoulder	2	2	2	Square Feet
<input checked="" type="checkbox"/>	12	Delamination/Spall	(2023 defect moved to span 3 beam 1) 2.5 feet x 6 inch x 3 inch deep spall with exposed reinforcement in end diaphragm at bent 3 bay 1	1			Square Feet

General Comments

Span 3 Expansion Joint at Bent 2
Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	34	27	0	0	7	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
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<input checked="" type="checkbox"/>	301	Seal Damage	both sidewalks, seal damaged/missing	4	7	7	Feet
<input checked="" type="checkbox"/>	301	Seal Cracking	(2023 joint is asphaltic plug joint) joint has been patched since last inspection	1			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	66	26	35	0	5	Feet
515	Steel Protective Coating	646	611	0	35	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 (3/8 inch average remaining x 14 inch x 4 inch) with corrosion reinitiated	4	1	1	Feet
<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 (3/8 inch average remaining x 4 feet x 4 inch) with corrosion reinitiated	4	4	4	Feet
<input checked="" type="checkbox"/>	107	Damage	at bent 3, bay 1 end diaphragm, spall (1.5 feet x 6 inch x 2 inch deep) with exposed rusted rebar	3			Feet
<input checked="" type="checkbox"/>	107	Corrosion	along the length of the beam, along edges of top flange, surface rust at random	2	33		Feet
<input checked="" type="checkbox"/>	107	Damage	over both travel lanes, along underside of cover plate, impact damage	2			Feet
<input checked="" type="checkbox"/>	107	Distortion	over both travel lanes, along underside of cover plate, impact scrapes with surface gouges	2	2		Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	limited effectiveness of protective coating on flanges and web, at random.	3	35	35	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	66	60	4	1	1	Feet
515	Steel Protective Coating	646	645	0	1	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, painted over section loss (7/16 inch average remaining x 4 inch x 1 inch)	4	1	1	Feet
<input checked="" type="checkbox"/>	107	Corrosion	at bent 2, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 10 inch x 1 inch) with corrosion reinitiated	3	1	1	Feet
<input checked="" type="checkbox"/>	107	Damage	at bent 3, bay 2 end diaphragm, spall (1 feet x 6 inch x 2 inch deep) with exposed rusted rebar	3			Feet
<input checked="" type="checkbox"/>	107	Damage	20 feet from bent 3, bottom flange, impact damage	2			Feet
<input checked="" type="checkbox"/>	107	Distortion	scrape marks along bottom flange of beam, 20 feet from bent 3.	2	4		Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	at bent 2, web adjacent to diaphragm, surface rust	3	1	1	Square Feet

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	66	56	8	0	2 Feet
515	Steel Protective Coating	646	640	0	6	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 (3/8 inch average remaining x 10 inch x 1 inch) with corrosion reinitiated	4	1	1 Feet
<input checked="" type="checkbox"/> 107	Corrosion	(PAR) at bent 3, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 10 inch x 1 inch)	4	1	1 Feet
<input checked="" type="checkbox"/> 107	Damage	at bent 3, bay 3 end diaphragm, spalls (up to 3 feet x 6 inch x 2 inch deep) with exposed rusted rebar	3		Feet
<input checked="" type="checkbox"/> 107	Corrosion	along the length of the beam, near bent 3, along edges of top flange, surface rust at random	2	5	Feet
<input checked="" type="checkbox"/> 107	Damage	over right travel lane, along bottom flange at cover plate, impact damage	2		Feet
<input checked="" type="checkbox"/> 107	Distortion	over right travel lane, along bottom flange at cover plate, impact scrapes with surface gouges	2	3	Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust	3	6	6 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	66	61	3	0	2 Feet
515	Steel Protective Coating	646	642	0	4	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 (3/8 inch average remaining x 9 inch x 5 inch) with corrosion reinitiated	4	1	1 Feet
<input checked="" type="checkbox"/> 107	Corrosion	(PAR) at bent 3, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 5 inch x 1 inch)	4	1	1 Feet
<input checked="" type="checkbox"/> 107	Corrosion	along the length of the beam, near bent 3, along edges of top flange, surface rust at random	2	3	Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust	3	4	4 Square Feet

General Comments

Span 3**Beam 5****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	66	37	26	0	3 Feet
515	Steel Protective Coating	646	618	0	28	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 107	Corrosion	(PAR) at bent 2, painted over section loss: web adjacent to diaphragm (3/8 inch average remaining x 8 inch x 4 inch); lower web (3/8 inch average remaining x 10 inch x 5 inch) with corrosion reinitiated	4	1	1 Feet
<input checked="" type="checkbox"/> 107	Corrosion	(PAR) at bent 3, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 4 inch x 6 inch); web over bearing, painted over pitting (up to 1/8 inch deep x 18 inch x 10 inch) with corrosion reinitiated	4	2	2 Feet
<input checked="" type="checkbox"/> 107	Damage	2 - up to 33 inch x 10 inch x 4 inch deep spalls with exposed reinforcing on end diaphragm at both sides of beam, at bents 2 and 3.	3		1 Feet
<input checked="" type="checkbox"/> 107	Corrosion	along the length of the beam, along edges of top flange, surface rust at random	2	25	Feet
<input checked="" type="checkbox"/> 107	Damage	over right travel lane, along underside of bottom flange and cover plate, impact damage	2		Feet
<input checked="" type="checkbox"/> 107	Distortion	over right travel lane, along underside of bottom flange and cover plate, impact scrapes and gouges (approximately 1/2 inch deep)	2	1	Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust	3	28	28 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	66	55	0	11	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 331	Delamination/Spall	along the length of the rail, spalls (up to 19 inch x 3 inch x 1 inch deep) with exposed rusted rebar	3	11	11 Feet
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	(2023 defect moved to deck) throughout underside adjacent to overhang, multiple areas of hairline map cracking	1		Feet
<input checked="" type="checkbox"/> 331	Delamination/Spall	(combined with other notes 2023) 5 inch x 2 inch x 2 inch deep spall with exposed reinforcing, in traffic face, 15 feet from bent 3.	1		Feet
<input checked="" type="checkbox"/> 331	Delamination/Spall	10 inch x 1 inch x 1 inch deep spall with exposed reinforcing, in outside face, 10 feet from bent 2.	1		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	66	61	5	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 331	Exposed Rebar	5 - spalls with exposed reinforcing up to 1 inch diameter x 1/2 inch deep, in outside face, at base of rail at random.	2	5	5 Feet
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	(2023 defect moved to deck) throughout underside adjacent to overhang, multiple areas of hairline map cracking	1		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)	freckled rust	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.	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 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	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
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<input checked="" type="checkbox"/>	313	Corrosion	freckled rust.	2	1	Each
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	freckled rust	2	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	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 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	0	1	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	Connection	(PAR) west face, between sole plate and bottom flange, poor quality weld with voids	3	1	1 Each
<input checked="" type="checkbox"/>	313	Corrosion	freckled rust.	2		Each
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	freckled rust	2	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	painted over section loss (up to 3/16 inch deep) and 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 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	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)	freckled rust	2	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	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	3	1	1	Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	freckled rust/pack rust	4	1	1	Square Feet

General Comments

Span 3 Near Bearing 5
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)	freckled rust	2	1	1	Square Feet

General Comments

Span 3 Far Bearing 5
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.	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 Wearing Surface
Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,712	1,712	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	510	Crack (Wearing Surface)	2023 repaved, previously noted as: transverse and longitudinal cracking in asphalt wearing surface, at random.	1		Square Feet
<input checked="" type="checkbox"/>	510	Patched Area/Pothole (Wearing Surface)	2023 repaved, previously noted as: 5 repair patches up to 5 feet x 3 feet in both lanes midspan to bent 3.	1		Square 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	1,805	1,279	323	203	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input checked="" type="checkbox"/>	12	Delamination/Spall	(PAR) bay 1, near end bent 1, spall/delamination (15 inch diameter x 1.5 inch deep) with exposed rusted rebar	3	2	2	Square Feet
<input checked="" type="checkbox"/>	12	Delamination/Spall	(PAR) bay 4, near midspan, spall (10 inch diameter x 1.5 inch deep) with exposed rusted rebar	3	1	1	Square Feet
<input checked="" type="checkbox"/>	12	Efflorescence/Rust Staining	(PAR) underside of all bays, near bent 3 and end bent 2, transverse cracks (up to 1/32 inch x full width) and map cracks (hairline) with efflorescence buildup and some rust stains at random	3	200	200	Square Feet
<input checked="" type="checkbox"/>	12	Cracking (RC and Other)	throughout underside of deck, map cracks (hairline) at random	2	300	300	Square Feet
<input checked="" type="checkbox"/>	12	Cracking (RC and Other)	underside of both overhangs, transverse cracks up to 1/32 inch wide x full width, intermittent length of span	2	20	20	Square Feet
<input checked="" type="checkbox"/>	12	Exposed Rebar	(PAR) 3 - spalls with exposed reinforcing up to 1 inch diameter x 1/2 inch deep, underside of left overhang, intermittent length of span.	2	3	3	Square Feet
<input checked="" type="checkbox"/>	12	Cracking (RC and Other)	(2023 defect moved to span 4 beam 1) 1/16 inch wide transverse crack in end diaphragm at bent 3 bay 1	1		Square Feet	

General Comments

Span 4 Expansion Joint at Bent 3
Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	34	27	0	0	7	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input checked="" type="checkbox"/>	301	Seal Damage	both sidewalks, seal damaged/missing	4	7	7	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	52	39	11	0	2 Feet
515	Steel Protective Coating	507	494	0	13	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, painted over section loss (3/8 inch average remaining x 6 inch x 4 inch); painted over pitting, lower web (up to 1/8 inch deep x 2 feet x 4 inch) with corrosion reinitiated	4	2	2 Feet
<input checked="" type="checkbox"/> 107	Damage	at bent 3, bay 1 end diaphragm, spall (2 feet x 10 inch x 2 inch deep) with exposed rusted rebar	3		Feet
<input checked="" type="checkbox"/> 107	Corrosion	near bent 3 and end bent 2, both flanges and web, surface rust at random	2	11	Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust	3	13	13 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	52	45	6	0	1 Feet
515	Steel Protective Coating	507	501	0	6	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, painted over section loss (3/8 inch average remaining x 10 inch x 1 inch)	4	1	1 Feet
<input checked="" type="checkbox"/> 107	Corrosion	near end bent 2, edges of top flange, surface rust at random	2	6	Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	near end bent 2, edges of top flange, surface rust at random	3	6	6 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	52	39	12	0	1 Feet
515	Steel Protective Coating	507	494	0	13	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, painted over section loss (3/8 inch average remaining x 8 inch x 1 inch) with corrosion reinitiated	4	1	1 Feet
<input checked="" type="checkbox"/> 107	Corrosion	near bent 3 and end bent 2, edges of top flange, surface rust at random	2	12	Feet

<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	surface rust	3	13	13	Square Feet
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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	52	40	11	0	1 Feet
515	Steel Protective Coating	507	496	0	11	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, painted over section loss (5/16 inch average remaining x 10 inch x 1.5 inch)	4	1	1 Feet
<input checked="" type="checkbox"/>	107	Damage	at bent 3, bay 4 end diaphragm, spall/delamination (18 inch x 6 inch x 1.5 inch deep) with exposed rusted rebar	3		Feet
<input checked="" type="checkbox"/>	107	Corrosion	near bent 3 and end bent 2, edges of both flanges, surface rust at random	2	11	Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	near bent 3 and end bent 2, edges of both flanges, surface rust at random	3	11	11 Square Feet

General Comments**Span 4 Beam 5****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	52	31	18	0	3 Feet
515	Steel Protective Coating	507	486	0	21	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 (1/4 inch average remaining x 10 inch x 4 inch); lower web (3/8 inch average remaining x 2.5 feet x 4 inches) with corrosion reinitiated	4	3	3 Feet
<input checked="" type="checkbox"/>	107	Corrosion	surface rust along edge of top flange, on west side, and along east face of web, at random.	2	18	Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	limited effectiveness of protective coating along edge of top flange and web, at random.	3	21	21 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	53	44	0	9	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	331	Delamination/Spall	along the length of the rail, spalls (up to 12 inch x 2 inch x 1/2 inch deep) with exposed rusted rebar	3	9	9 Feet

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<input checked="" type="checkbox"/>	331	Delamination/Spall	(combined with other notes 2023) 12 inch x 1 inch x 1 inch deep spall with exposed reinforcing, in outside face, near midspan.	1				Feet
<input checked="" type="checkbox"/>	331	Delamination/Spall	(combined with other notes 2023) 12 inch x 2 inch x 1/2 inch deep and 8 inch x 1 inch x 1/2 inch deep spalls with exposed reinforcing, in traffic face, 5 feet from end bent 2.	1				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	53	44	0	9	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/>	331	Delamination/Spall			
		4 inch x 4 inch x 1.5 inch deep spall, in traffic face, at bent 3.	3	1	1 Feet
<input checked="" type="checkbox"/>	331	Delamination/Spall			
		along the length of the rail, spalls (up to 12 inch x 2 inch x 1/2 inch deep) with exposed rusted rebar	3	8	8 Feet
<input checked="" type="checkbox"/>	331	Delamination/Spall			
		(combined with other notes 2023) 2 - spalls with exposed reinforcing up to 2 inch x 2 inch x 1/2 inch deep, in traffic face, 15 feet from bent 3.	1		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			
		painted over section loss (up to 3/16 inch) and 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 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	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)			
		freckled rust	2	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	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 4 Far 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	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)	freckled rust	2	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	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 4 Far 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	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

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<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	freckled rust	2	1	1	Square Feet
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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	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 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	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	2	1	Each
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	2	1	1 Square Feet

General Comments

Span 4 Near Bearing 5

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 4**Far Bearing 5****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)	freckled rust	2	1	1	Square Feet

General Comments**Span 4****Wearing Surface****Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,363	1,363	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 510	Crack (Wearing Surface)	2023 repaved, previously noted as: alligator cracking at random.	1			Square Feet
<input checked="" type="checkbox"/> 510	Crack (Wearing Surface)	2023 repaved, previously noted as: transverse crack up to 1/4 inch wide at end bent 2.	1			Square Feet
<input checked="" type="checkbox"/> 510	Patched Area/Pothole (Wearing Surface)	2023 repaved, previously noted as: 60 square foot of potholes and patches, near centerline, near bent 3.	1			Square Feet
<input checked="" type="checkbox"/> 510	Patched Area/Pothole (Wearing Surface)	2023 repaved, previously noted as: repair patches in both lanes up to 15 feet x 5 feet, near end bent 2.	1			Square 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	49	43	5	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 215	Efflorescence/Rust Staining	(PAR) area of rust staining in bay 1.	3	1	1	Feet
<input checked="" type="checkbox"/> 215	Delamination/Spall	6 inch x 2 inch delamination with crack up to 1/4 inch wide, left side of beam 3 (similar at all beams).	2	5	5	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	47	36	0	11	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
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<input checked="" type="checkbox"/>	234	Cracking (RC and Other)	under bays 3 and 4 on both faces, delaminations [up to 5.5 feet x up to 16 inch] with cracks [up to 1/16 inch]	3	11	11	Feet
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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	36	23	13	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	234	Cracking (RC and Other)	north face, below beam 3, delamination (3 feet x 6 inch) with associated cracks (up to 1/32 inch)	2		Feet
<input checked="" type="checkbox"/>	234	Cracking (RC and Other)	south face, below bay 1, longitudinal crack (1/32 inch x 15 inches)	2	2	Feet
<input checked="" type="checkbox"/>	234	Delamination/Spall	at Northeast corner, lower edge, delamination [20 inch x 1 foot]	2	2	2 Feet
<input checked="" type="checkbox"/>	234	Delamination/Spall	north face, lower edge, below beam 4, delamination (3 feet x 6 inch) with associated cracks (up to 1/32 inch)	2	3	3 Feet
<input checked="" type="checkbox"/>	234	Delamination/Spall	south face, below beam 3, delamination (6 feet x 1 foot) with associated cracks (up to 1/32 inch)	2	6	6 Feet
<input checked="" type="checkbox"/>	234	Cracking (RC and Other)	(not found 2023) 2 foot transverse crack up to 1/32 inch wide, under beam 2, on underside of cap.	1		Feet

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	Delamination/Spall	at Northeast corner adjacent to corbel, delamination [8 inch x 13 inch]	2	1	2 Each
<input checked="" type="checkbox"/>	205	Patched Area	6 foot x 18 inch sound patch at southwest corner, near base of column.	2		Each

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	36	13	6	17	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	234	Cracking (RC and Other)	at North face and extending to top face between beam 3 to beam 5, delaminations [up to 6 feet x 1 foot] with associated cracks [up to 1/16 inch]	3	12	12 Feet
<input checked="" type="checkbox"/>	234	Cracking (RC and Other)	south face, below bay 3, (2) delaminations (up to 5 feet x 15 inch) with associated cracks (up to 1/16 inch)	3		5 Feet

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<input checked="" type="checkbox"/>	234	Delamination/Spall	1 foot x 3 inch x 1/2 inch deep spall with exposed reinforcing [no measurable section loss], underside of east end of overhang.	3	1	1	Feet
<input checked="" type="checkbox"/>	234	Patched Area	41 inch x 23 inch patch, south face, under beam 3 with cracks up to 1/32 inch, with form bolts left in place	3	4	4	Feet
<input checked="" type="checkbox"/>	234	Cracking (RC and Other)	2.5 foot x 6 inch delamination with associated cracks up to 1/32 inch wide, south face, under bay 2 at bottom corner	2	3		Feet
<input checked="" type="checkbox"/>	234	Cracking (RC and Other)	2.5 foot x 6 inch delamination, with associated cracks up to 1/32 inch wide, south face, under bay 1.	2	3		Feet
<input checked="" type="checkbox"/>	234	Cracking (RC and Other)	south face, below bay 4, longitudinal crack (1/32 inch x 2 feet)	2			Feet
<input checked="" type="checkbox"/>	234	Delamination/Spall	under bay 3 at North face extending to underside, delamination [31 inch x 6 inch] with associated cracks [up to 1/32 inch]	2		3	Feet
<input checked="" type="checkbox"/>	234	Patched Area	plate repair (25 inch x 11 inch), at south face, under beam 5.	2			Feet

General Comments

**Bent 2 Pile 1
Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	205	Delamination/Spall	6 inch x 4 inch x 1 inch deep spall, at southwest corner, 8.5 feet above ground.	2		1 Each
<input checked="" type="checkbox"/>	205	Delamination/Spall	7 inch x 4 inch x 1 inch deep spall, at southwest corner, 1 feet above ground.	2	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	Delamination/Spall	2 - spalls up to 15 inch x 6 inch x 1.5 inch deep [no exposed rusted reinforcing] south face, at corbel near top of column.	3	1	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	49	31	17	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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<input checked="" type="checkbox"/>	215	Efflorescence/Rust Staining	(PAR) top of abutment, in bay 3, rust stains	3	1	1	Feet
<input checked="" type="checkbox"/>	215	Cracking (RC and Other)	along the length of the abutment, vertical cracks (up to 1/32 inch x 1 foot) and areas of map cracks (hairline) at random	2	12		Feet
<input checked="" type="checkbox"/>	215	Delamination/Spall	delamination up to 6 inch x 8 inch, east side of beam 3 (typical at all beams at end bent 2).	2	5	5	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	47	43	0	4	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input checked="" type="checkbox"/>	234	Cracking (RC and Other)	4 foot x 8 inch delamination with associated cracks up to 1/16 inch, face of cap, under beam 5.	3	4	4	Feet

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	36	12	0	24	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input checked="" type="checkbox"/>	234	Delamination/Spall	1 foot x 1 foot x 2.5 inch spall with exposed primary reinforcing, west end of south corner	3	1	1	Feet
<input checked="" type="checkbox"/>	234	Delamination/Spall	2 foot x 15 inch x 1 inch deep spall with exposed reinforcing, south face, above column 1	3	3	3	Feet
<input checked="" type="checkbox"/>	234	Delamination/Spall	south and north faces, below bays 2-4, delaminations/spalls (up to 10 feet x 2 feet x 1 inch deep) with associated cracks (up to 1/4 inch)	3	20	20	Feet
<input checked="" type="checkbox"/>	234	Cracking (RC and Other)	(combined with other notes 2023) 5 feet of transverse cracks up to 3/8 inch wide, in top of cap, under bay 1.	1			Feet
<input checked="" type="checkbox"/>	234	Delamination/Spall	(combined with other notes 2023) at top and bottom Northeast corner, delamination [12 inch x 12 inch]	1			Feet
<input checked="" type="checkbox"/>	234	Delamination/Spall	(combined with other notes 2023) bay 4 at North face and top face, delamination [6 feet x 19 inches]	1			Feet

General Comments

Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1805
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	52
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	52
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	52
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	52
Span 1	Beam 5	Plate Girder	Steel Open Girder/Beam	52
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1363
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 1	Near Bearing 5	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing 5	Movable Bearing	Movable Bearing	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	2269
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	66
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	66
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	66
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	66
Span 2	Beam 5	Plate Girder	Steel Open Girder/Beam	66
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	66
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	66
Span 2	Expansion Joint at Bent 1	Standard Joint	Pourable Joint Seal	34
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1712
Span 2	Far Bearing 1	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 2	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing 3	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 4	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing 5	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 5	Fixed Bearing	Fixed Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	2266
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	66
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	66
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	66
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	66
Span 3	Beam 5	Plate Girder	Steel Open Girder/Beam	66

Elements Verified

Location	Name	Component	Element Name	Amount
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	66
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	66
Span 3	Expansion Joint at Bent 2	Standard Joint	Pourable Joint Seal	34
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1712
Span 3	Near Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing 1	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing 2	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing 3	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing 4	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing 5	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing 5	Movable Bearing	Movable Bearing	1
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1805
Span 4	Beam 1	Plate Girder	Steel Open Girder/Beam	52
Span 4	Beam 2	Plate Girder	Steel Open Girder/Beam	52
Span 4	Beam 3	Plate Girder	Steel Open Girder/Beam	52
Span 4	Beam 4	Plate Girder	Steel Open Girder/Beam	52
Span 4	Beam 5	Plate Girder	Steel Open Girder/Beam	52
Span 4	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 4	Expansion Joint at Bent 3	Standard Joint	Pourable Joint Seal	34
Span 4	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1363
Span 4	Far Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing 1	Movable Bearing	Movable Bearing	1
Span 4	Near Bearing 2	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing 3	Movable Bearing	Movable Bearing	1
Span 4	Near Bearing 4	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing 5	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing 5	Movable Bearing	Movable Bearing	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	36
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	47
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	49
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	36
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	47

Elements Verified

Location	Name	Component	Element Name	Amount
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	49
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	36
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: 110171

Inspection Date: 10/04/2023

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9, N	5
Item 59: Superstructure	0 - 9, N	6
Item 60: Substructure	0 - 9, N	6
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	G	0	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	F	400	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		I		

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: 110171

Inspection Date: 10/04/2023

Item	Slope Protection	Grade	F	Maint Code	3352	Qty.	400
Details	end bent 2 slope protection, at east end, section settled/shifted to the east (up to 1.5 inch) with adjacent transverse crack (up to 1 inch wide x 6 feet) end bent 1 slope protection, west end, tree growing between sections; section settled/shifted to the west (up to 1 inch)						

Item	General Comments and Misc Items	Grade		Maint Code		Qty.	0
Details	(PAR) southeast guardrail transition, impact damage (7 feet) with (1) decayed post (PAR) southeast guardrail attachment, improper lap (PAR) northeast guardrail termination, impact damage (1 foot) (PAR) northwest guardrail, impact damage (38 feet) (PAR) northwest guardrail attachment, improper lap (PAR) southwest guardrail, areas of impact damage (25 feet total) south and north approach asphalt, repaved since previous inspection (PAR) southwest guardrail transition, (1) decayed post						



(PAR) southeast guardrail transition, impact damage (7 feet) with (1) decayed post



(PAR) southeast guardrail transition, impact damage (7 feet) with (1) decayed post



(PAR) southeast guardrail attachment, improper lap



(PAR) northeast guardrail termination, impact damage (1 foot)



(PAR) northwest guardrail, impact damage (38 feet)



(PAR) northwest guardrail attachment, improper lap



(PAR) southwest guardrail, areas of impact damage (25 feet total)



Span 2 Expansion Joint at Bent 1: both sidewalks, seal damaged/missing



Span 1 Right Bridge Rail: 16 - spalls with exposed reinforcing up to 2 inch x 1 inch x 1/2 inch deep, in outside face, at random.



Span 4 Right Bridge Rail: 4 inch x 4 inch x 1.5 inch deep spall, in traffic face, at bent 3.



Span 4 Left Bridge Rail: along the length of the rail, spalls (up to 12 inch x 2 inch x 1/2 inch deep) with exposed rusted rebar



Span 2 Left Bridge Rail: 20 feet from bent 1, diagonal crack (1/8 inch wide) with edge spall (4 inch x 1 inch x 1 inch deep)



Span 2 Left Bridge Rail: near bent 1, vertical cracks (up to 1/32 inch x 9 inches)



End Bent 2 Abutment: delamination up to 6 inch x 8 inch, east side of beam 3 (typical at all beams at end bent 2).



End Bent 2 Abutment: along the length of the abutment, vertical cracks (up to 1/32 inch x 1 foot) and areas of map cracks (hairline) at random



End Bent 2 Cap 1: 4 foot x 8 inch delamination with associated cracks up to 1/16 inch, face of cap, under beam 5.



End Bent 2 Abutment: (PAR) top of abutment, in bay 3, rust stains



Span 4 Beam 1 - Far Bearing 1: freckled rust



Span 4 Beam 1: near bent 3 and end bent 2, both flanges and web, surface rust at random



Span 4 Beam 5: surface rust along edge of top flange, on west side, and along east face of web, at random.



Span 4 Beam 1: at bent 3, bay 1 end diaphragm, spall (2 feet x 10 inch x 2 inch deep) with exposed rusted rebar



Span 4 Deck: (PAR) underside of all bays, near bent 3 and end bent 2, transverse cracks (up to 1/32 inch x full width) and map cracks (hairline) with efflorescence buildup and some rust stains at random



Span 4 Deck: underside of both overhangs, transverse cracks up to 1/32 inch wide x full width, intermittent length of span



Span 4 Deck: (PAR) bay 1, near end bent 1, spall/delamination (15 inch diameter x 1.5 inch deep) with exposed rusted rebar



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



end bent 2 slope protection, at east end, section settled/shifted to the east (up to 1.5 inch) with adjacent transverse crack (up to 1 inch wide x 6 feet)



Span 4 Deck: (PAR) 3 - spalls with exposed reinforcing up to 1 inch diameter x 1/2 inch deep, underside of left overhang, intermittent length of span.



(PAR) southwest guardrail transition, (1) decayed post



end bent 1 slope protection, west end, tree growing between sections; section settled/shifted to the west (up to 1 inch)



End Bent 1 Abutment: 6 inch x 2 inch delamination with crack up to 1/4 inch wide, left side of beam 3 (similar at all beams).



End Bent 1 Abutment: (PAR) area of rust staining in bay 1.



End Bent 1 Cap 1: under bays 3 and 4 on both faces, delaminations [up to 5.5 feet x up to 16 inch] with cracks [up to 1/16 inch]



End Bent 1 Cap 1: under bays 3 and 4 on both faces, delaminations [up to 5.5 feet x up to 16 inch] with cracks [up to 1/16 inch]



Span 1 Beam 3 - Near Bearing 3: surface rust



Span 1 Beam 4 - Near Bearing 4: surface rust/rust scale



Span 1 Beam 1: inside face of web, previous grinding (up to 1/16 inch deep); areas painted



Span 1 Beam 1: inside face of web, previous grinding (up to 1/16 inch deep); areas painted



Span 1 Beam 3: near end bent 1 and bent 1, both flanges and web, surface rust at random



Span 1 Deck: (PAR) both overhangs, delaminations/spalls (up to 4 inch diameter x 1/2 inch deep) with exposed rusted rebar at random



Span 1 Deck: (PAR) underside of all bays, transverse and map cracks (up to 1/32 inch) with efflorescence buildup and some rust stains at random



Span 1 Deck: (PAR) underside of all bays, transverse and map cracks (up to 1/32 inch) with efflorescence buildup and some rust stains at random



Span 1 Deck: (PAR) underside of all bays, transverse and map cracks (up to 1/32 inch) with efflorescence buildup and some rust stains at random



Span 1 Beam 1: 15 inch x 6 inch x 2 inch deep spall with exposed reinforcing in end diaphragm overhang, west side, at bent 1.



Span 1 Beam 1: bent 1 end diaphragm at bent 1, patched area (4.5 foot x 1 foot) with hairline cracks with efflorescence; adjacent to beam 2, delamination (1 foot x 6 inch)



Span 4 Deck: (PAR) bay 4, near midspan, spall (10 inch diameter x 1.5 inch deep) with exposed rusted rebar



Span 4 Deck: (PAR) underside of all bays, near bent 3 and end bent 2, transverse cracks (up to 1/32 inch x full width) and map cracks (hairline) with efflorescence buildup and some rust stains at random



Span 4 Deck: (PAR) underside of all bays, near bent 3 and end bent 2, transverse cracks (up to 1/32 inch x full width) and map cracks (hairline) with efflorescence buildup and some rust stains at random



Span 4 Beam 5: (PAR) at bent 3, painted over section loss: web adjacent to diaphragm (1/4 inch average remaining x 10 inch x 4 inch); lower web (3/8 inch average remaining x 2.5 feet x 4 inches with corrosion reinitiated)



Span 4 Beam 5 - Near Bearing 5: surface rust/pack rust.



Span 3 Beam 5: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 4 inch x 6 inch); web over bearing, painted over pitting (up to 1/8 inch deep x 18 inch x 10 inch) with corrosion reinitiated



Span 3 Beam 4: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 5 inch x 1 inch)



Span 4 Beam 4: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 10 inch x 1.5 inch)



Span 4 Beam 4 - Near Bearing 4: painted over section loss (up to 1/8 inch deep) and pack rust



Span 3 Beam 5: 2 - up to 33 inch x 10 inch x 4 inch deep spalls with exposed reinforcing on end diaphragm at both sides of beam, at bents 2 and 3.



Bent 3 Cap 1: south and north faces, below bays 2-4, delaminations/spalls (up to 10 feet x 2 feet x 1 inch deep) with associated cracks (up to 1/4 inch)



Bent 3 Cap 1: south and north faces, below bays 2-4, delaminations/spalls (up to 10 feet x 2 feet x 1 inch deep) with associated cracks (up to 1/4 inch)



Bent 3 Cap 1: south and north faces, below bays 2-4, delaminations/spalls (up to 10 feet x 2 feet x 1 inch deep) with associated cracks (up to 1/4 inch)



Bent 3 Cap 1: 2 foot x 15 inch x 1 inch deep spall with exposed reinforcing, south face, above column 1



Span 3 Beam 3: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 10 inch x 1 inch)



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



Span 4 Beam 2: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 10 inch x 1 inch)



Span 3 Beam 2: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 4 inch x 1 inch)



Span 3 Beam 1: (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 (3/8 inch average remaining x 4 feet x 4 inch) with corrosion reinitiated



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



Span 3 Beam 3: at bent 3, bay 3 end diaphragm, spalls (up to 3 feet x 6 inch x 2 inch deep) with exposed rusted rebar



Span 3 Deck: (PAR) throughout underside of deck, in all bays, transverse cracks (up to 1/32 inch x full width) and areas of map cracks (hairline) with efflorescence buildup and rust stains



Span 3 Deck: (PAR) throughout underside of deck, in all bays, transverse cracks (up to 1/32 inch x full width) and areas of map cracks (hairline) with efflorescence buildup and rust stains



Span 3 Beam 1: over both travel lanes, along underside of cover plate, impact scrapes with surface gouges



Span 3 Beam 1: along the length of the beam, along edges of top flange, surface rust at random



Span 3 Beam 3: over right travel lane, along bottom flange at cover plate, impact scrapes with surface gouges



Span 3 Beam 5: over right travel lane, along underside of bottom flange and cover plate, impact scrapes and gouges (approximately 1/2 inch deep)



Span 3 Beam 5: along the length of the beam, along edges of top flange, at random



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



Span 2 Beam 1 - Near Bearing 1: (PAR) stacked plates, laterally misaligned (up to 1/2 inch) in relation to sole plate; no anchor bolts installed through beam or into cap



Span 2 Beam 2: at bent 1, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 9 inch x 1 inch)



Span 1 Beam 2: (PAR) at bent 1, web adjacent to diaphragm, painted over section loss (1/4 inch average remaining x 10 inch x 2 inch)



Span 1 Beam 2 - Far Bearing 2: pack rust.



Bent 1 Cap 1: south face, below bay 1, longitudinal crack (1/32 inch x 15 inches)



Bent 1 Cap 1: south face, below beam 3, delamination (6 feet x 1 foot) with associated cracks (up to 1/32 inch)



Span 1 Beam 2: (PAR) at bent 1, web adjacent to diaphragm, painted over section loss (1/4 inch average remaining x 10 inch x 2 inch)



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



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



Span 1 Beam 3: (PAR) at bent 1, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 10 inch x 1 inch) with adjacent painted over pitting (up to 1/8 inch deep x 2 inch x 3 inch) with corrosion reinitiated



Span 1 Beam 3 - Far Bearing 3: painted over section loss (up to 3/16 inch deep) and pack rust



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



Span 1 Beam 4: (PAR) at bent 1, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 7 inch x 1 inch) with corrosion reinitiated



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



Bent 1 Cap 1: (not found 2023) 2 foot transverse crack up to 1/32 inch wide, under beam 2, on underside of cap.



Bent 1 Cap 1: north face, below beam 3, delamination (3 feet x 6 inch) with associated cracks (up to 1/32 inch)



Bent 1 Pile 2: 6 foot x 18 inch sound patch at southwest corner, near base of column.



Bent 1 Cap 1: at Northeast corner, lower edge, delamination [20 inch x 1 foot]



Bent 1 Pile 2: at Northeast corner adjacent to corbel, delamination [8 inch x 13 inch]



Span 2 Beam 1: end diaphragm on both sides has been removed with exposed rusted rebar, at both ends, when beam was replaced.



Span 2 Beam 1: surface rust at edges of top and bottom flange, at random, along beam.



Span 2 Beam 1: impact scrapes on bottom flange with gouges up to 1/8 inch deep, 20 feet from bent 1.



Span 2 Beam 2: (PAR) over both travel lanes, underside of bottom flange and cover plate, impact scrapes with gouges (up to 1/2 inch deep); over right travel lane, bottom flange and cover plate, distorted (up to 1 inch upwards x approximately 1.5 feet); no apparent distress to cover plate welds



Span 2 Beam 2: (PAR) over both travel lanes, underside of bottom flange and cover plate, impact scrapes with gouges (up to 1/2 inch deep); over right travel lane, bottom flange and cover plate, distorted (up to 1 inch upwards x approximately 1.5 feet); no apparent distress to cover plate welds



Span 2 Beam 3: over right travel lane, underside of bottom flange and cover plate, impact scrapes with surface gouges; left edge of bottom flange, distorted upwards (approximately 1/4 inch x 8 inches)



Span 2 Beam 4: over right travel lane, bottom flange and cover plate, impact scrapes with surface gouges



Span 2 Deck: (PAR) 8 - spalls with exposed reinforcing up to 2 inch diameter x 1/2 inch deep, underside of right overhang, at random.



Span 2 Deck: (PAR) throughout underside of deck, in all bays, transverse cracks (up to 1/32 inch x full width) and areas of map cracks (hairline) with efflorescence buildup and some rust stains



Span 2 Deck: (PAR) throughout underside of deck, in all bays, transverse cracks (up to 1/32 inch x full width) and areas of map cracks (hairline) with efflorescence buildup and some rust stains



Bent 2 Pile 1: 6 inch x 4 inch x 1 inch deep spall, at southwest corner, 8.5 feet above ground.



Bent 2 Pile 2: 2 - spalls up to 15 inch x 6 inch x 1.5 inch deep [no exposed rusted reinforcing] south face, at corbel near top of column.



Bent 2 Cap 1: 1 foot x 3 inch x 1/2 inch deep spall with exposed reinforcing [no measurable section loss], underside of east end of overhang.



Bent 2 Cap 1: at North face and extending to top face between beam 3 to beam 5, delaminations [up to 6 feet x 1 foot] with associated cracks [up to 1/16 inch]



Bent 2 Cap 1: under bay 3 at North face extending to underside, delamination [31 inch x 6 inch] with associated cracks [up to 1/32 inch]



Bent 2 Cap 1: 2.5 foot x 6 inch delamination, with associated cracks up to 1/32 inch wide, south face, under bay 1.



Span 2 Beam 1: at bent 2, top flange, rust scale



Span 2 Beam 1: end diaphragm on both sides has been removed with exposed rusted rebar, at both ends, when beam was replaced.



Span 2 Beam 1 - Far Bearing 1: (PAR) stacked plates, laterally misaligned (up to 1/2 inch) in relation to sole plate; no anchor bolts installed through beam and masonry plate anchor bolts too long with disengaged nuts



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



Span 2 Beam 2: at bent 2, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 4 inch x 1 inch) with corrosion reinitiated; top flange, upper web and bottom flange, rust scale



Span 2 Beam 2 - Far Bearing 2: (PAR) along east face, between sole plate and bottom flange, broken weld; right anchor bolt nut backed off



Span 3 Beam 3 - Near Bearing 3: (PAR) west face, between sole plate and bottom flange, poor quality weld with voids



Span 2 Beam 3: at bent 2, corrosion with section loss: web adjacent to diaphragm (7/16 inch x 10 inch x up to 2 feet); top flange (3/4 inch average remaining x 3 inches)



Bent 2 Cap 1: 41 inch x 23 inch patch, south face, under beam 3 with cracks up to 1/32 inch, with form bolts left in place



Bent 2 Cap 1: south face, below bay 3, (2) delaminations (up to 5 feet x 15 inch) with associated cracks (up to 1/16 inch)



Span 3 Beam 3: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 10 inch x 1 inch) with corrosion reinitiated



Span 2 Beam 4 - Far Bearing 4: surface rust/pack rust.



Span 3 Beam 4: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 9 inch x 5 inch) with corrosion reinitiated



Span 3 Beam 5: (PAR) at bent 2, painted over section loss: web adjacent to diaphragm (3/8 inch average remaining x 8 inch x 4 inch); lower web (3/8 inch average remaining x 10 inch x 5 inch) with corrosion reinitiated



Bent 2 Cap 1: plate repair (25 inch x 11 inch), at south face, under beam 5.



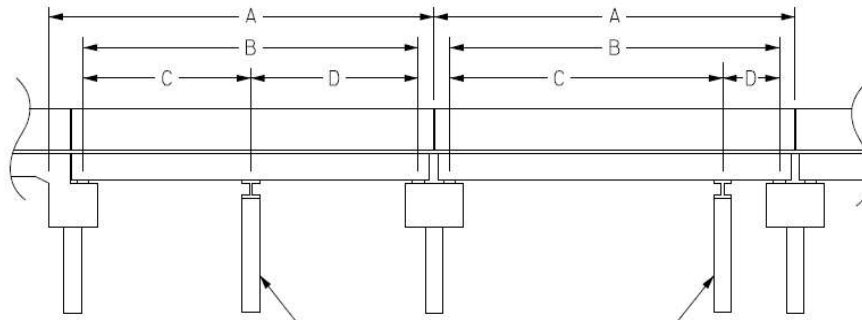
Span 3 Deck: [PAR] 19 inch x 16 inch area of delamination on underside of deck in bay 1, over left shoulder

Structure Data Worksheet

Span Profile

County: **BURKE**

Structure Number: **110171**



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	52.420	50.417			
2	65.830	64.583			
3	65.830	64.583			
4	52.420	50.417			

Structure Number: 110171

Span: 2

Route Name: I 40 E



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

Route Number: 11000400		Route Name: I 40 E			Reference Feature: H	
Minimum Vertical Clearance 14.680 feet		Maximum Minimum Vertical Clearance 14.900 feet				
Total Horizontal Clearance 40.830 feet		Lateral Clearances: Left: 14.500 feet Right: 8.600 feet				
<input checked="" type="checkbox"/> Base Highway Network		LRS Inventory Route, Sub Route Number 10040				
Milepost: 118.070	Number of Lanes: 2	ADT: 22500	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: 110171

Span: 3

Route Name: I 40 W



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

Route Number: 11000400		Route Name: I 40 W			Reference Feature: H	
Minimum Vertical Clearance 15.167 feet		Maximum Minimum Vertical Clearance 15.250 feet				
Total Horizontal Clearance 42.200 feet		Lateral Clearances: Left: 13.820 feet		Right: 9.090 feet		
<input checked="" type="checkbox"/> Base Highway Network		LRS Inventory Route, Sub Route Number 10040				
Milepost: 118.070	Number of Lanes: 2	ADT: 22500	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	20ft Wide	2 Paved Lanes	Looking North
Left Shoulder	20.5ft Wide	2.5ft Paved	18ft Unpaved
Right Shoulder	11ft Wide	2ft Paved	9ft Unpaved
Left Guardrail			
Right Guardrail			

Measurements taken approximately 400 feet from end bent 1

Title
APPROACH ROADWAY

Description
LOOKING NORTH

Structure No: 110171

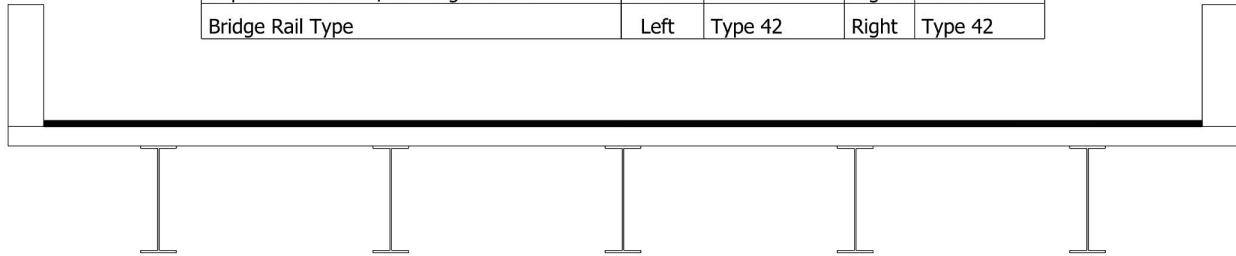
Drawn By: ITChapman

Date: 10/4/2023

Filename: S000918000506.wes

Bridge Inspection Field Sketch

Deck Width/Out to Out	34.417ft	Between Rails	32.25ft
Clear Roadway	26ft	Wearing Surface	2in
Median Width		Median Height	
Curb Height		Left	8in
		Right	8in
Sidewalk Width		Left	3.125ft
		Right	3.125ft
Clear Roadway (Rail to Median)		Left	
		Right	
Guardrail Width		Left	13in
		Right	13in
Top of Rail to Deck/Wearing Surface		Left	3.25ft
		Right	3.25ft
Bridge Rail Type		Left	Type 42
		Right	Type 42



Measurements for Span #	1	all spans similar	
Deck Thickness	6.5in	Left Overhang	4.208ft
Top of Rail to Bottom of Beam (Avg)	6.948ft	Right Overhang	4.208ft

Beam #	Beam Type	Width	Height	Spacing	From
1	Plate Girder	12in	35.875in	4.208ft	Left Edge of Deck
2	Plate Girder	12in	35.875in	6.5ft	Beam 1
3	Plate Girder	12in	35.875in	6.5ft	Beam 2
4	Plate Girder	12in	35.875in	6.5ft	Beam 3
5	Plate Girder	12in	35.875in	6.5ft	Beam 4

BEAMS (except span 2 beam 1): 34-1/4" between flanges, 12" wide x 13/16" flange, 1/2" web

Span 2 Beam 1: 28-1/2" between flanges, 10-1/2" wide x 3/4" flange, 7/16" web

COVER PLATES (spans 2 and 3 except span 2 beam 1): 8" wide x 3/8" thick (could not verify)

Title
TYPICAL SECTION

Description
LOOKING NORTH

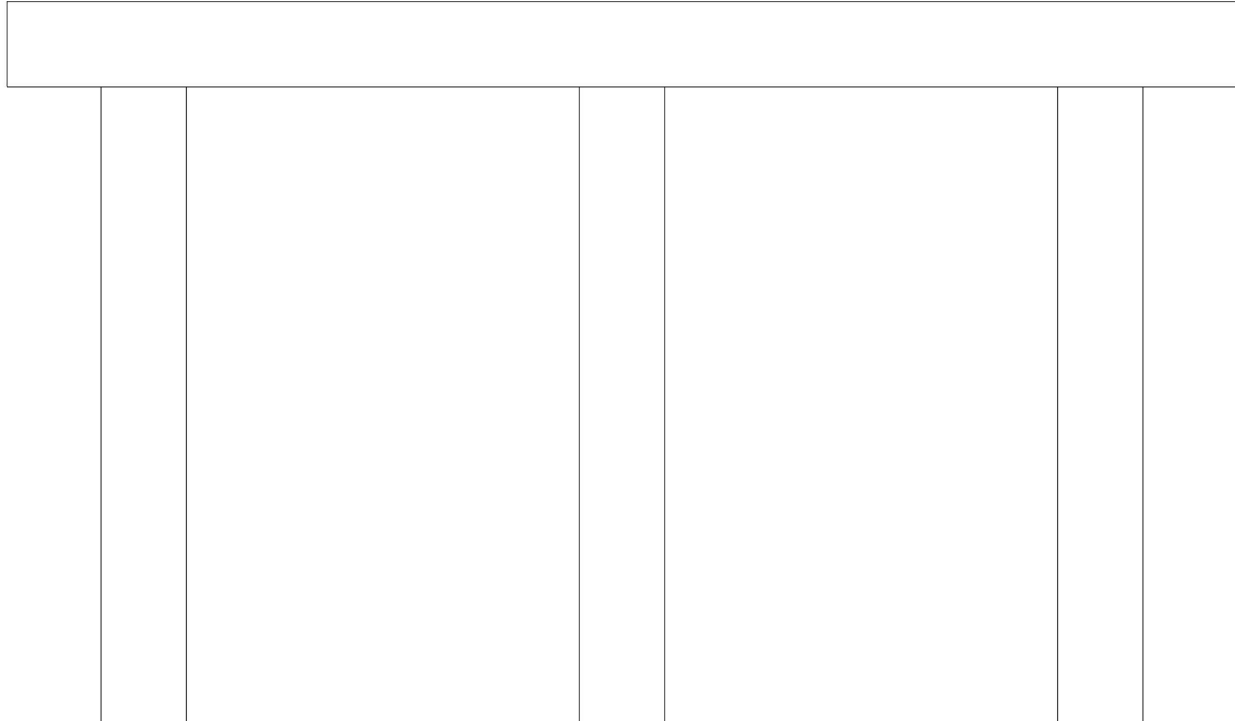
Structure No: 110171

Drawn By: ITChapman

Date: 10/4/2023

Filename: S000918000507.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	36ft	30in	30in	1.2ft	1.2ft

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	14ft	Pile 1	30in	30in	
3	Pile 3	Reinforced Concrete Column	14ft	Pile 2	30in	30in	

Title
BENTS 1-3

Description
LOOKING NORTH

Structure No: 110171

Drawn By: ITChapman

Date: 10/4/2023

Filename: S000918000508.wes



southeast guardrail termination



southeast guardrail



southwest guardrail



south approach looking north



southeast guardrail transition



bridge ID



southeast guardrail attachment



right bridge rail



left bridge rail



asphalt wearing surface



end bent 1 asphalt



south approach looking south



bent 1 joint



bent 2 joint



roadway looking east



roadway looking west



bent 3 joint



north approach looking north



end bent 2 asphalt



northeast guardrail attachment



northeast guardrail



northeast guardrail termination



northwest guardrail termination



northwest guardrail



north approach looking south



northwest guardrail transition



bridge plaque



northwest guardrail attachment



southwest guardrail attachment



southwest guardrail termination



northwest wingwall



end bent 2



end bent 2 slope protection



end bearing assembly



northeast wingwall



southwest wingwall



end bent 1



end bent 1 slope protection



southeast wingwall



ladder used



superstructure underside



intermediate diaphragm



end diaphragm



bent 2



bent 3



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



east profile looking west



interior bearing assembly



beams over bent



bent 1



typical bottom flange cover plate end, spans 2 and 3



superstructure underside, span 2; note beam 1 previously replaced



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



west profile looking east



interior bearing assembly at bent 1, span 2 beam 1 (bent 2 similar)



beams over bent 1 showing span 2 beam 1 (bent 2 similar)