NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: prompt action request, sign notice issued, sketches revised, clearances revised; new repairs to span 3 beams

Structure Safety Report

Routine Element Inspection - Contract

STRUCTURE NUMBER: 110169 **SAP STRUCTURE NO:** 0120169 **FHWA STRUCTURE NO:** 000000000230169

DIVISION: 13 **COUNTY:** BURKE **INSPECTION DATE:** 10/03/2023 **FREQUENCY:** 24 MONTHS

FACILITY CARRIED: SR1765 **MILE POST:** 117.3

LOCATION: .3 MI.S.JCT.US64,70

FEATURE INTERSECTED: I-40

LATITUDE: 35° 42' 53.09" **LONGITUDE:** 81° 27' 10.93"

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON I-BEAMS

SUBSTRUCTURE: E.BTS:RC CAPS/H-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** 6 / 6 **SUPERSTRUCTURE** 6 / 6 **SUBSTRUCTURE** 6 / 6 **CULVERT** N / N

POSTED SV: Not Posted **POSTED TTST:** Not Posted

OTHER SIGNS PRESENT: none

south approach looking north

Sign noticed issued for		Number Required
NO	**WEIGHT LIMIT**	0
NO	**DELINEATORS**	0
NO	**NARROW BRIDGE**	0
NO	**ONE LANE BRIDGE**	0
YES	**LOW CLEARANCE**	1

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS

INSPECTED BY	SIGNATURE	ASSISTED BY
Chris Perry		Isaiah Chapman

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

12/20/2023

IDENTIFICATION

(1) STATE NAME	NORTH CAROLINA	BRIDGE	**110169**
(8) STRUCTURE NUMBER (FEDERAL)			**0230169**
(5) INVENTORY ROUTE (ON/UNDER)	ON		**31017650**
(2) STATE HIGHWAY DEPARTMENT DISTRICT			**13**
(3) COUNTY CODE (FEDERAL)	**23**	(4) PLACE CODE	**33320**
(6) FEATURE INTERSECTED	**I-40**		
(7) FACILITY CARRIED	**SR1765**		
(9) LOCATION	**.3 MI.S.JCT.US64,70**		
(11) MILEPOINT			**117.3**
(12) BASE HIGHWAY NETWORK			**0**
(13) LRS INVENTORY ROUTE & SUBROUTE			**0**
(16) LATITUDE	**35° 42' 53.09"**	(17) LONGITUDE	**81° 27' 10.93"**
(98) BORDER BRIDGE STATE CODE		PERCENT SHARED	
(99) BORDER BRIDGE STRUCTURE NUMBER			

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN			**Steel**
TYPE	**Stringer/Multi-beam or girder**	CODE	**302**
(44) STRUCTURE TYPE APPROACH			
TYPE		CODE	
(45) NUMBER OF SPANS IN MAIN UNIT			**4**
(46) NUMBER OF SPANS IN APPROACH			**0**
(107) DECK STRUCTURE TYPE		CODE	**1**
(108)WEARING SURFACE/PROTECTIVE SYSTEM			
(A) TYPE OF WEARING SURFACE		CODE	**1**
(B) TYPE OF MEMBRANE		CODE	**0**
(C) TYPE OF DECK PROTECTION		CODE	**0**

AGE AND SERVICE

(27) YEAR BUILT			**1956**
(106) YEAR RECONSTRUCTED			**0**
(42) TYPE OF SERVICE ON -			**Highway - Pedestrian**
OFF -	**Highway**	CODE	**51**
(28) LANES ON STRUCTURE	**2**	LANES UNDER STRUCTURE	**8**
(29) AVERAGE DAILY TRAFFIC			**800**
(30) YEAR OF ADT	**2019**	(109) TRUCK ADT PCT	**7**
(19) BYPASS OR DETOUR LENGTH			**3.0**

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN			**52.0**
(49) STRUCTURE LENGTH			**189.0**
(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)			**21.0**
(33) BRIDGE MEDIAN		CODE	**5**
(34) SKEW	**0**	(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**		**14.5**
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE	**H**		**12.5**
(56) MIN LAT UNDERCLEARANCE LT:			**13.6**

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**

SUFFICIENCY RATING	**80.43**
STATUS =	

CLASSIFICATION

		CODE
(112) NBIS BRIDGE SYSTEM		**Y**
(104) HIGHWAY SYSTEM	**Inventory Route not on NHS**	**0**
(26) FUNCTIONAL CLASS	**Urban Local**	**19**
(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**

CONDITION

	CODE
(58) DECK	**6**
(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-28**	**51**
(65) INVENTORY RATING METHOD -		**1**
(66) INVENTORY RATING	**HS-17**	**30**
(70) BRIDGE POSTING	**No Posting Required**	**5**
(41) STRUCTURE OPEN, POSTED, OR CLOSED		**A**
DESCRIPTION	**Open, no restriction**	

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**

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 **1,600**	YEAR OF FUTURE ADT **2040**

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			

Structure Number **110169** County **BURKE** Run Date **12/20/2023**

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	Rigth 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	15.5	117.2	1	10040	11	2	26500	2017	43.3	H	15.2	11.9	13.9	4		1	☐	☐
2	I-40 e	11000400	15.3	117.2	1		11	2	25500	2019	43.3	H	15.2	11.0	13.9	4		1	☐	☐
3	I-40 w	11000400	14.6	117.2	1		11	2	25500	2019	43.0	H	15.5	11.9	13.5	4	0	1	☐	☐

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** 42.000 **Skew** 90.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
2	Concrete Railing	Reinforced Concrete Bridge Railing	84 Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1446 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	205 Feet	Inorganic Zinc Pimer with Acrylic Top Coat	2055

Span Number 2 **Span Length** 52.500 **Skew** 90.000

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	1807 Square Feet		
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	2610
5	Movable Bearing	Movable Bearing	5 Each	Inorganic Zinc Pimer with Acrylic Top Coat	5
1	Standard Joint	Pourable Joint Seal	26 Feet		

Span Number 3 **Span Length** 52.500 **Skew** 90.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Vertical Clearance	Regulatory Sign	1 Each		
5	Plate Girder	Steel Open Girder/Beam	260 Feet	Inorganic Zinc Pimer with Acrylic Top Coat	2610
1	Standard Joint	Pourable Joint Seal	26 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
2	Concrete Railing	Reinforced Concrete Bridge Railing	106 Feet		

Superstructure Build Details

1	Reinforced Concrete Deck	Reinforced Concrete Deck	1807	Square Feet		

Span Number 4 **Span Length** 42.000 **Skew** 90.000

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
1	Standard Joint	Pourable Joint Seal	26	Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	84	Feet		
5	Fixed Bearing	Fixed Bearing	5	Each	Inorganic Zinc Pimer with Acrylic Top Coat	5
5	Plate Girder	Steel Open Girder/Beam	205	Feet	Inorganic Zinc Pimer with Acrylic Top Coat	2055
5	Movable Bearing	Movable Bearing	5	Each	Inorganic Zinc Pimer with Acrylic Top Coat	5
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1446	Square Feet		

Structure Element Scoring

Structure Number: **110169**

Inspection Date **10/3/2023**

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	6,506	0	4,694	1,812	0
107		Steel Open Girder/Beam	Beam	930	837	46	35	12
515	107	Steel Protective Coating	Beam	9,330	9,298	8	20	4
205		Reinforced Concrete Column	Piles and Columns	9	9	0	0	0
215		Reinforced Concrete Abutment	Abutments	72	55	16	1	0
220		Reinforced Concrete Pile Cap/Footing	Footing	24	24	0	0	0
225		Steel Pile	Piles and Columns	10	10	0	0	0
234		Reinforced Concrete Pier Cap	Caps	155	99	42	14	0
301		Pourable Joint Seal	Expansion Joints	78	19	18	31	10
311		Movable Bearing	Bearing Device	20	3	5	11	1
515	311	Steel Protective Coating	Bearing Device	20	3	3	2	12
313		Fixed Bearing	Bearing Device	20	5	12	3	0
515	313	Steel Protective Coating	Bearing Device	20	5	9	3	3
331		Reinforced Concrete Bridge Railing	Bridge Rail	380	333	27	20	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **110169** Inspection Date: **10/03/2023**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Patched Areas	38 Square Feet
3326	Reinforced Concrete Deck	Cracking (RC and Other)	3341 Square Feet
3326	Reinforced Concrete Deck	Delamination/Spall	190 Square Feet
3326	Reinforced Concrete Deck	Exposed Rebar	23 Square Feet
3314	Steel Open Girder/Beam	Corrosion	17 Feet
3314	Steel Open Girder/Beam	Distortion	37 Feet
3350	Reinforced Concrete Abutment	Delamination/Spall	1 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	25 Feet
3310	Pourable Joint Seal	Seal Damage	8 Feet
3310	Pourable Joint Seal	Seal Adhesion	10 Feet
3310	Pourable Joint Seal	Adjacent Deck or Header	2 Feet
3334	Movable Bearing	Corrosion	12 Each
3334	Movable Bearing	Loss of Bearing Area	1 Each
3334	Fixed Bearing	Corrosion	3 Each
3318	Reinforced Concrete Bridge Railing	Patched Area	4 Square Feet
3318	Reinforced Concrete Bridge Railing	Delamination/Spall	43 Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	64 Square Feet

Element Structure Maintenance Quantities

Structure Number: **110169** Inspection Date **10/03/2023**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Beam	3314	Maintenance Steel Superstructure Components	54	930	12.000	35.000	46.000	837.000
Beam	3342	Clean and Paint Steel	32	9330	4.000	20.000	8.000	9298.000
Bearing Device	3334	Bridge Bearing	13	20	1.000	11.000	5.000	3.000
Bearing Device	3334	Bridge Bearing	3	20	0.000	3.000	12.000	5.000
Bearing Device	3342	Clean and Paint Steel	17	20	12.000	2.000	3.000	3.000
Bearing Device	3342	Clean and Paint Steel	15	20	3.000	3.000	9.000	5.000
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	47	380	0.000	20.000	27.000	333.000
Deck	3326	Maintenance of Concrete Deck	3592	6506	0.000	1812.000	4694.000	0.000
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	20	78	10.000	31.000	18.000	19.000
Abutments	3350	Maintenance of Concrete Wings and Wall	1	72	0.000	1.000	16.000	55.000
Caps	3348	Maintenance of Concrete Substructure	25	155	0.000	14.000	42.000	99.000
Footing	3348	Maintenance of Concrete Substructure	0	24	0.000	0.000	0.000	24.000
Piles and Columns	3348	Maintenance of Concrete Substructure	0	9	0.000	0.000	0.000	9.000
Piles and Columns	3354	Maintenance of Steel Substructure Components	0	10	0.000	0.000	0.000	10.000

Priority Actions Request

Structure Number 110169

Span1

3326 **Deck** Reinforced Concrete Deck

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	4	Span 1 Deck: (PAR) 5 - spalls with exposed reinforcing up to 4 inch diameter x 1 inch deep, in underside of left overhang, at random.
2	Exposed Rebar	7	Span 1 Deck: (PAR) 7 - spalls with exposed reinforcing up to 4 inch diameter x 1 inch deep, in underside of right overhang, 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 3 inch x 2 inch); painted over pitting: lower web (up to 1/8 inch deep x 1 foot x 1 foot); bottom flange (up to 1/8 inch deep x 1 foot); underside of bottom flange, rust scale

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 6 inch x up to 2 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 (approximately 3/8 inch average remaining x 8 inch x 1 inch); no safe ladder access to exterior face

Span2

3326 **Deck** Reinforced Concrete Deck

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	2	Span 2 Deck: (PAR) southbound lane, at bent 1, spall (2 feet x 6 inch x 1 inch deep) with exposed rusted rebar
2	Exposed Rebar	5	Span 2 Deck: (PAR) 5 - spalls with exposed reinforcing in underside of right overhang up to 2 inch diameter x 1 inch deep, 20 feet from bent 2.

3314 **Beam 1** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 2 Beam 1: (PAR) at bent 1, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 7 inch x 1 inch); painted over pitting: lower web, painted over pitting (up to 1/16 inch deep x 1 foot x 6 inch) with corrosion reinitiated

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

Priority Actions Request

Structure Number **110169**

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 (3/8 inch average remaining x 6 inch x 1 inch) with corrosion reinitiated

3314 **Beam 5** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 2 Beam 5: (PAR) at bent 1, web adjacent to diaphragm, painted over section loss (approximately 3/8 inch average remaining x 7 inch x 1 inch); no safe ladder access to exterior face
2	Corrosion	1	Span 2 Beam 5: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 9 inch x 1 inch); east top flange, painted over pitting (up to 1/8 inch deep x 6 inches x 4 inches) with corrosion reinitiated

Span3

3326 **Deck** Reinforced Concrete Deck

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	25	Span 3 Deck: (PAR) SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: up to 4 feet long x 10 inch wide x 1 inch deep surface spalling, some with exposed rusted rebar, in underside of deck, along edges of beam 3.

3314 **Beam 1** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 3 Beam 1: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (approximately 3/8 inch average remaining x 9 inch x 1 inch) with corrosion reinitiated; no safe ladder access to exterior face
2	Distortion	7	Span 3 Beam 1: (PAR) 2023 area repainted with new impact scrapes/gouges (up to 1/8 inch deep); previously noted as: impact damage to beam 1 span 3, starting at 14 feet-7 inches from bent 3 for a total length of 6 feet-8 inches. beam deflected 2 inches westward. bottom flange bent upward 2 inches for a length of 20 inches at 18 feet from bent 3 with three indentions. first indention at 18 feet from bent 3, 1.5 inches long x 1.25 inches high x 1 inch deep. second indention at 18 feet-5 inches from bent 3, 2.5 inches long x 1.5 inches high x 0.25 inch deep. third indention at 18 feet-8 inches from bent 3, 2 inches long x 1 inch high x 0.25 inch deep.
2	Distortion	30	Span 3 Beam 1: (PAR) 2023 area repainted with new impact scrapes/gouges (up to 1/8 inch deep); previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: POINT OF IMPACT 9 FEET LONG WITH SCATTERD 1 inch DEEP INDENTIONS THROUGH OUT BOTTOM FLANGE , AT 12 FEET-9 INCHES FROM INTERIOR BENT 3 . BEAM 1 DEFLECTION 1 INCH TO THE WEST. Top repair plate PULLED LOOSE FROM DECK EAST SIDE FOR A LENGTH OF 30 FEET X 3/4 INCH .,EAST SIDE OF BOTTOM FLANGE BENT UPWARD 1/2 INCH. SCATTERED SCRAPES ALONG BOTTOM FLANGE AND WEB . SCATTERED OLD SCRAPES AND INDENTIONS ALONG BOTTOM FLANGE .

3314 **Beam 2** Plate Girder

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 **110169**

2	Distortion	4	Span 3 Beam 2: (PAR) (2023 area repainted with new impact scrapes/gouges (up to 1/8 inch deep); previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: beam 2 span 3 deflected upward 1/2 inch at 19.5 inches from bent 2 for a length of 4 feet, with scrapes on bottom flange

3314 **Beam 3** Plate Girder

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

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 6 inch x 1 inch) with corrosion reinitiated

Span4

3326 **Deck** Reinforced Concrete Deck

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	2	Span 4 Deck: (PAR) 2 - spalls with exposed reinforcing up to 2 inch diameter x 1 inch deep, in underside of right overhang, at random.
1	Exposed Rebar	5	Span 4 Deck: (PAR) 5 - spalls with exposed reinforcing up to 4 inch x 2 inch x 1 inch deep, in underside of left overhang, at random.

3334 **Beam 3** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Loss of Bearing Area	1	Span 4 Beam 3 - Near Bearing 3: (PAR) south edge of masonry plate, undermined (13 inch x 3 inches deep) due to cap step spall; masonry plate displaced downward (up to 1/2 inch)
2	Corrosion	1	Span 4 Beam 3: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (1/4 inch average remaining x 12 inch x 4 inch)

3314 **Beam 5** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 4 Beam 5: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (approximately 3/8 inch average remaining x 10 inch x 1 inch) with corrosion reinitiated; underside of bottom flange, rust scale; no safe ladder access to exterior face

Bent 3

3348 **Cap 1** Reinforced Concrete Pier Cap

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

Priority Actions Request

Structure Number **110169**

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	3	Bent 3 Cap 1: (PAR) at span 4 beam 4 cap step, south face, spall (2.5 feet x 7 inch x 4 inches deep) undermining bearing

Approach Guardrail and Barriers

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

Priority Level	Defect Type	Quantity	Defect Description
2		1	(PAR) northwest guardrail attachment, improper lap
2		10	(PAR) northwest guardrail, near termination, impact damage (10 feet)
2		1	(PAR) southeast guardrail attachment, improper lap
2		1	(PAR) southeast guardrail termination, disconnected termination block
2		1	(PAR) southwest guardrail termination, impact damage (1 foot)
2		2	(PAR) span 3, over I-40 westbound, MVC measured as 14 feet-6 inches; no vertical clearance signs in place (no photo)

Element Condition and Maintenance Data

Structure Number: **110169** Inspection Date: **10/03/2023**

Span 1 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,446	0	719	727	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 12	Cracking (RC and Other)	map cracking up to 1/16 inch wide throughout	3	725	725	Square Feet
☑ 12	Delamination/Spall	southbound lane, near end bent 1, partially patched spall (18 inch x 15 inch x 1.5 inch deep)	3	2	2	Square Feet
☑ 12	Abrasion/Wear (PSC/RC)	throughout top of deck, wear with secure aggregate (up to 1/2 inch deep)	2	708		Square Feet
☑ 12	Cracking (RC and Other)	up to 1/32 inch transverse cracks, some with efflorescence, on underside of deck throughout	2		50	Square Feet
☑ 12	Delamination/Spall	throughout underside of deck, scattered areas of poor consolidation (up to 1/2 inch deep) at random	2		15	Square Feet
☑ 12	Exposed Rebar	(PAR) 5 - spalls with exposed reinforcing up to 4 inch diameter x 1 inch deep, in underside of left overhang, at random.	2	4	4	Square Feet
☑ 12	Exposed Rebar	(PAR) 7 - spalls with exposed reinforcing up to 4 inch diameter x 1 inch deep, in underside of right overhang, at random.	2	7	7	Square Feet
☑ 12	Cracking (RC and Other)	(combined with other notes 2023) hairline transverse crack from spalls on underside of right overhang 25 feet from end bent 1	1			Square Feet
☑ 12	Cracking (RC and Other)	(combined with other notes 2023) transverse cracks and map cracking up to 1/16 inch wide, at random.	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	41	40	0	0	1	Feet
515	Steel Protective Coating	411	410	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 107	Corrosion	(PAR) at bent 1, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 3 inch x 2 inch); painted over pitting: lower web (up to 1/8 inch deep x 1 foot x 1 foot); bottom flange (up to 1/8 inch deep x 1 foot); underside of bottom flange, rust scale	4	1	1	Feet
☑ 107	Damage	15 inch x 6 inch x 1.5 inch deep spall with exposed reinforcing, in end diaphragm, west overhang, at bent 1.	3			Feet
☑ 515	Effectiveness (Steel Protective Coatings)	at bent 1, underside of bottom flange, rust scale	4	1	1	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	41	40	0	0	1	Feet
515	Steel Protective Coating	411	410	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 1, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 6 inch x up to 2 inch) with corrosion reinitiated	4	1	1	Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bent 1, web adjacent to diaphragm, surface rust	3	1	1	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	41	40	0	1	0	Feet
515	Steel Protective Coating	411	410	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 1, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 4 inch x 1 inch) with corrosion reinitiated	3	1	1	Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bent 1, web adjacent to diaphragm, surface rust	3	1	1	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	41	39	1	0	1	Feet
515	Steel Protective Coating	411	410	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 1, web adjacent to diaphragm, painted over section loss (approximately 3/8 inch average remaining x 8 inch x 1 inch); no safe ladder access to exterior face	4	1	1	Feet
☑ **107**	Corrosion	at bent 1, web adjacent to diaphragm and top flange, surface rust	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bent 1, web adjacent to diaphragm and top flange, surface rust	3	1	1	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	42	37	5	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Delamination/Spall	5 - spalls with exposed reinforcing up to 3 inch x 1 inch x 1/2 inch deep, in traffic and outside faces, at random., no section loss noted.	2	5	5	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	
☑ **311**	Corrosion	surface rust/pack rust.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust/pack rust	4	1	1	Square Feet

General Comments

Span 1 — Far Bearing 2

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	(not found 2023) surface rust.	1			Each
☑ **515**	Effectiveness (Steel Protective Coatings)	(not found 2023) limited effectiveness of protective coating	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	1	0	0	0	Each
515	Steel Protective Coating	1	1	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	(not found 2023) surface rust.	1			Each
☑ **515**	Effectiveness (Steel Protective Coatings)	(combined with other notes 2023) limited effectiveness of protective coating	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	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	freckled rust	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	freckled rust	2	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	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	
☑ **311**	Corrosion	freckled rust.	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	freckled rust	2	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	
☑ **311**	Corrosion	corrosion with section loss (up to 1/8 inch deep) and pack rust	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss and pack rust	4	1	1	Square Feet

General Comments

Span 2 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,807	0	870	937	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **12**	Cracking (RC and Other)	random transverse cracks and map cracking up to 1/16 inch wide, in top of deck.	3	900	900	Square Feet
☑ **12**	Delamination/Spall	(PAR) southbound lane, at bent 1, spall (2 feet x 6 inch x 1 inch deep) with exposed rusted rebar	3	2	2	Square Feet
☑ **12**	Patched Areas	up to 9 foot x 4.5 foot wide patches with up to 3 foot x 15 inch x 1.5 inch deep spalls/delaminations, at centerline, far half of span.	3	35	35	Square Feet
☑ **12**	Abrasion/Wear (PSC/RC)	throughout, wear with secure aggregate	2	850		Square Feet
☑ **12**	Cracking (RC and Other)	throughout underside in all bays, multiple areas of hairline map cracking	2		200	Square Feet
☑ **12**	Delamination/Spall	throughout top of deck, spalls/delaminations (up to 6 inch diameter x 1 inch deep)	2	15	15	Square Feet
☑ **12**	Exposed Rebar	(PAR) 5 - spalls with exposed reinforcing in underside of right overhang up to 2 inch diameter x 1 inch deep, 20 feet from bent 2.	2	5	5	Square Feet
☑ **12**	Delamination/Spall	(combined with other notes 2023) 1 foot x 2 foot delamination, near centerline, 8 feet from bent 2.	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	52	45	6	0	1	Feet
515	Steel Protective Coating	522	516	5	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **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); painted over pitting: lower web, painted over pitting (up to 1/16 inch deep x 1 foot x 6 inch) with corrosion reinitiated	4	1	1	Feet
☑ **107**	Damage	12 inch x 5 inch x 1.5 inch deep patched spall in end diaphragm, in west overhang at bent 2	3			Feet
☑ **107**	Corrosion	at bent 2, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 3 inch x 1 inch)	2	1		Feet
☑ **107**	Damage	underside of bottom flange, over right travel lane, impact damage	2			Feet
☑ **107**	Distortion	underside of bottom flange, over right travel lane, impact scrapes	2	5		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bent 1, surface rust	3	1	1	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	underside of bottom flange, impact scrapes	2	5	5	Square Feet

General Comments

Span 2 Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	52	52	0	0	0	Feet
515	Steel Protective Coating	522	522	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **107**	Damage	2 foot x full width x 6 inch deep spall/delamination in end diaphragm at bent 2, under bay 2 adjacent to beam 3.	3		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	52	50	1	0	1	Feet
515	Steel Protective Coating	522	520	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 1, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 6 inch x 1 inch) with corrosion reinitiated	4	1	1	Feet
☑ **107**	Corrosion	at bent 2, web over bearing, painted over pitting (1/8 inch deep x 7 inch x 10 inch) with corrosion reinitiated	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bents 1 and 2, surface rust	3	2	2	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	52	47	4	1	0	Feet
515	Steel Protective Coating	522	518	3	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 2, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 9 inch x 1 inch) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Corrosion	at bent 1, web adjacent to diaphragm, painted over pitting (up to 1/8 inch deep x 10 inch x up to 4 inch)	2	1		Feet
☑ **107**	Corrosion	underside of bottom flange, near bent 1, freckled rust	2	3		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bent 2, web adjacent to diaphragm, surface rust	3	1	1	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	underside of bottom flange, near bent 1, freckled rust	2	3	3	Square Feet

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	52	49	1	0	2	Feet
515	Steel Protective Coating	522	520	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **107**	Corrosion	(PAR) at bent 1, web adjacent to diaphragm, painted over section loss (approximately 3/8 inch average remaining x 7 inch x 1 inch); no safe ladder access to exterior face	4	1	1	Feet
☑ **107**	Corrosion	(PAR) at bent 2, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 9 inch x 1 inch); east top flange, painted over pitting (up to 1/8 inch deep x 6 inches x 4 inches) with corrosion reinitiated	4	1	1	Feet
☑ **107**	Corrosion	at bent 1, web adjacent to diaphragm and top flange, surface rust	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bents 1 and 2, surface rust	3	2	2	Square Feet

General Comments

Span 2 — Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	53	43	6	4	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Patched Area	4 feet of patched rail and curb x full height, with cracks up to 1/32 inch, near midspan.	3	4	4	Square Feet
☑ **331**	Delamination/Spall	6 - spalls with exposed reinforcing up to 8 inch x 1 inch x 1/2 inch deep, at random.	2	6	6	Feet

General Comments

Span 2 — Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	53	45	8	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Delamination/Spall	8 - spalls with exposed reinforcing up to 6 inch x 2 inch x 1/2 inch deep, along traffic and outside face, at random.	2	8	8	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	26	13	6	7	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **301**	Seal Damage	both shoulders, seal damage (up to 1 inch deep)	3	7		Feet
☑ **301**	Debris Impaction	6 feet of debris impaction at joint at bent 1, in both shoulders with active vegetation.	2			Feet
☑ **301**	Seal Cracking	along the length of the joint, seal cracks at random	2	6		Feet

General Comments

Span 2 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	
☑ 311	Corrosion	surface rust/pack rust	3	1	1	Each
☑ 515	Effectiveness (Steel Protective Coatings)	surface rust/pack rust	4	1	1	Square Feet

General Comments

Span 2 Near 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	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 311	Corrosion	surface rust	2	1		Each
☑ 515	Effectiveness (Steel Protective Coatings)	limited effectiveness of protective coating	3	1	1	Square Feet

General Comments

Span 2 Near Bearing 4

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 311	Corrosion	surface rust	2	1		Each
☑ 515	Effectiveness (Steel Protective Coatings)	limited effectiveness of protective coating	3	1	1	Square Feet

General Comments

Span 2 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

☑ **311**	Corrosion	surface rust/pack rust	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust/pack rust	4	1	1	Square Feet

General Comments

Span 2 — 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	
☑ **313**	Corrosion	freckled rust	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	freckled rust	2	1	1	Square Feet

General Comments

Span 2 — 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	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	surface rust	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	limited effectiveness of protective coating	3	1	1	Square Feet

General Comments

Span 2 — Far Bearing 3

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	freckled rust/pack rust	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	freckled rust/pack rust	4	1	1	Square Feet

General Comments

Span 2 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	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	surface rust	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	limited effectiveness of protective coating	3	1	1	Square Feet

General Comments

Span 2 Far 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	
☑ **313**	Corrosion	freckled rust/pack rust	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	freckled rust/pack rust	4	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	1,807	0	1,662	145	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **12**	Delamination/Spall	(PAR) up to 4 feet long x 10 inch wide x 1 inch deep spalling, some with exposed rusted rebar, in underside of deck, along edges of beam 3.	3	25	25	Square Feet
☑ **12**	Delamination/Spall	spalling up to 1 foot x 4 inch x 1/2 inch deep, full length, underside of deck along both sides of beam 2.	3	20	20	Square Feet
☑ **12**	Delamination/Spall	spalling up to 12 INCH WIDE X 1 INCH deep, full length, underside of deck along both sides of beam 1.	3	100	100	Square Feet
☑ **12**	Abrasion/Wear (PSC/RC)	throughout, wear with secure aggregate	2	908		Square Feet
☑ **12**	Cracking (RC and Other)	random hairline map cracking and transverse cracks up to 1/32 inch wide.	2	723	723	Square Feet
☑ **12**	Cracking (RC and Other)	throughout left sidewalk, multiple areas hairline map cracking	2	20	20	Square Feet
☑ **12**	Delamination/Spall	multiple locations throughout, potholes/popouts up to 6 inch diameter x 1/2 inch deep	2	11	11	Square Feet
☑ **12**	Cracking (RC and Other)	throughout underside in all bays, multiple areas of hairline map cracking	1	100		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	53	43	0	10	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Delamination/Spall	10 - spalls up to 19 inch x 2 inch x 1/2 inch deep with exposed reinforcing in traffic and outside faces, at random.	3	10	10	Feet
☑ **331**	Delamination/Spall	(combined with other notes 2023) 3 - spalls with exposed reinforcing up to 3 inch x 2 inch x 1/2 inch deep, inside face of post, near bent 3.	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	53	45	8	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Delamination/Spall	8 - spalls up to 5 inch x 2 inch x 1/2 inch deep with exposed reinforcing in traffic and outside faces, at random.	2	8	8	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	52	17	4	30	1	Feet
515	Steel Protective Coating	522	521	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 3, web adjacent to diaphragm, painted over section loss (approximately 3/8 inch average remaining x 9 inch x 1 inch) with corrosion reinitiated; no safe ladder access to exterior face	4	1	1	Feet
☑ **107**	Damage	along the length of the beam, impact damage	3			Feet
☑ **107**	Damage	bay 1 end diaphragm at bent 2, spall (1 foot diameter x 2 inch deep) with adjacent diagonal crack (1/32 inch x 3 feet) with efflorescence	3			Feet

☑ **107**	Distortion	(PAR) 2023 area repainted with new impact scrapes/gouges (up to 1/8 inch deep); previous diaphragm weld crack and missing bilts repaired; previously noted as: impact damage to beam 1 span 3, starting at 14 feet-7 inches from bent 3 for a total length of 6 feet-8 inches. beam deflected 2 inches westward. bottom flange bent upward 2 inches for a length of 20 inches at 18 feet from bent 3 with three indentions. first indention at 18 feet from bent 3, 1.5 inches long x 1.25 inches high x 1 inch deep. second indention at 18 feet-5 inches from bent 3, 2.5 inches long x 1.5 inches high x 0.25 inch deep. third indention at 18 feet-8 inches from bent 3, 2 inches long x 1 inch high x 0.25 inch deep.	3		7	Feet
☑ **107**	Distortion	(PAR) 2023 area repainted with new impact scrapes/gouges (up to 1/8 inch deep); previous diaphragm weld crack and missing bolts repaired; previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: POINT OF IMPACT 9 FEET LONG WITH SCATTERED 1 inch DEEP INDENTIONS THROUGH OUT BOTTOM FLANGE , AT 12 FEET-9 INCHES FROM INTERIOR BENT 3 . BEAM 1 DEFLECTION 1 INCH TO THE WEST. Top repair plate PULLED LOOSE FROM DECK EAST SIDE FOR A LENGTH OF 30 FEET X 3/4 INCH ., EAST SIDE OF BOTTOM FLANGE BENT UPWARD 1/2 INCH. SCATTERED SCRAPES ALONG BOTTOM FLANGE AND WEB . SCATTERED OLD SCRAPES AND INDENTIONS ALONG BOTTOM FLANGE .	3	30	30	Feet
☑ **107**	Corrosion	at bent 2, web adjacent to diaphragm, painted over pitting (up to 1/8 inch deep x 4 inch x 1 inch) with corrosion reinitiated; web and top flange, surface rust	2	3		Feet
☑ **107**	Cracking	(not verified 2023) SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022. Crack in weld of plate at TOP flange of beam 1 span 3 measured at 17 feet from bent 3 for a length of 1 foot	2	1		Feet
☑ **107**	Distortion	beam 1 span 3 deflected upward 1/2 inch at 22.75 feet from bent 2 for a length of 1 foot	2			Feet
☑ **107**	Distortion	beam 1 span 3 has indention at 21.167 feet from bent 2 for a length of 2 feet, with upward deflection of 1/2 inch. one indention 15.5 feet from bent 2 for a length of 1 foot, with upward deflection of 1/4 inch	2			Feet
☑ **107**	Distortion	(combined with other notes 2023) beam 1 span 3 is deflected upward 1 inch starting at 14.583 feet from bent 3 for a total length of 6 feet	1			Feet
☑ **107**	Distortion	(combined with other notes 2023) beam 1 span 3 is deflected westward 1 inch for a total length of 10 feet	1			Feet
☑ **107**	Distortion	(combined with other notes 2023) damage to beam 1 span 3 starting at 13.5 feet from bent 3 for a total length of 10 feet. point of impact measured at 17.417 feet from bent 3, with scattered scrapes and indentions throughout bottom flange.	1			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bent 2, web and top flange, surface rust	3	1	1	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	52	42	10	0	0	Feet
515	Steel Protective Coating	522	520	0	1	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 2, web adjacent to diaphragm, rust scale	2	1		Feet
☑ **107**	Corrosion	at bent 3, web adjacent to diaphragm, surface rust	2	1		Feet
☑ **107**	Damage	along the length of the beam, impact damage	2			Feet
☑ **107**	Distortion	(PAR) 2023 area repainted with new impact scrapes/gouges up to 1/8 inch deep; previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: beam 2 span 3 deflected upward 1/2 inch at 19.5 inches from bent 2 for a length of 4 feet, with scrapes on bottom flange	2	4		Feet
☑ **107**	Distortion	2023 area repainted with new impact scrapes/gouges up to 1/8 inch deep; previously noted as: impact damage to beam 2 span 3 for a length of 3 feet-5 inches starting at 16 feet-6 inches from bent 3. bottom flange bent upward 0.25 inch for length of 3 feet-5 inches	2	4		Feet
☑ **107**	Connection	(2023 defect moved to deck) spall at top flange of west side of beam 2 span 3. 17 inches long x 6 inches wide x 1/4 inch deep measured at 15.417 feet from bent 3	1			Feet
☑ **107**	Distortion	(combined with other notes 2023) beam 2 span 3 deflected upward 1/2 inch at point of impact for a length of 5 feet	1			Feet
☑ **107**	Distortion	(combined with other notes 2023) minor indentions in bottom flange in beam 2 span 3 starting at 18.167 feet from bent 3 for a total length of 2 feet	1			Feet
☑ **107**	Distortion	(combined with other notes 2023) scrapes along bottom flange, near midspan.	1			Feet
☑ **107**	Distortion	(not found 2023) SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: SCATTERED SCRAPES WEB OF BEAM 2 .	1			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bent 2, web adjacent to diaphragm, rust scale	4	1	1	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bent 3, 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	52	41	9	1	1	Feet
515	Steel Protective Coating	522	520	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **107**	Corrosion	(PAR) at bent 3, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 9 inch x 1 inch) with corrosion reinitiated	4	1	1	Feet
☑ **107**	Corrosion	at bent 2, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 7 inch x 1 inch); lower web, painted over pitting (up to 1/8 inch deep x 4 inch x 1 inch) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Damage	along the length of the beam, impact damage	2			Feet
☑ **107**	Distortion	2023 area repainted; previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022. : SCATTERED SCRAPES ALONG BOTTOM FLANGE OF BEAM 3	2	5		Feet
☑ **107**	Distortion	beam 3 span 3 deflected upward 1/4 inch for a length of 3 feet at 15 feet from bent 2	2	3		Feet
☑ **107**	Distortion	two indentions in bottom flange of beam 3 span 3. one 1/4 inch deep and one 1/2 inch deep at 15.583 feet from bent 2 for a total length of 1 foot	2	1		Feet
☑ **107**	Distortion	(2023 defect moved to span 3 beam 4) beam 4 span 3 has scrapes to bottom flange at 16.917 feet from bent 3 for a total length of 2 feet	1			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bents 2 and 3, surface rust	3	2	2	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	52	49	2	0	1	Feet
515	Steel Protective Coating	522	520	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 2, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 6 inch x 1 inch) with corrosion reinitiated	4	1	1	Feet
☑ **107**	Corrosion	at bent 3, web adjacent to diaphragm, painted over pitting (up to 1/8 inch deep x 10 inch x 1.5 inch) with corrosion reinitiated	2	1		Feet
☑ **107**	Damage	along the length of the beam, impact damage	2			Feet
☑ **107**	Distortion	2023 area repainted; previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: Beam 4 Span 3 has scrapes to bottom flange at 16.75 feet from bent 3 for a total length of 1 foot	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bents 2 and 3, web adjacent to diaphragm, surface rust	3	2	2	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	52	45	5	2	0	Feet
515	Steel Protective Coating	522	519	0	2	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 2, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 5 inch x 1/2 inch) with corrosion reinitiated; underside of bottom flange, rust scale	3	1	1	Feet
☑ **107**	Corrosion	at bent 3, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 4 inch x 1 inch) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Damage	along the length of the beam, impact damage	2			Feet
☑ **107**	Distortion	2023 area repainted with new impact scrapes; previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: two 1/4 inch deep indentions in bottom flange of beam 5 span 3 at 16.5 feet from bent 3 . SCATTERED SCRAPES	2	2		Feet
☑ **107**	Distortion	beam 5 span 3 is deflected upward 1/4 inch at 16.417 feet from bent 2 for a length of 3 feet	2	3		Feet
☑ **107**	Distortion	(combined with other notes 2023) beam 5 span 3 has scrapes on bottom flange	1			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bent 2, underside of bottom flange, rust scale	4	1	1	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bents 2 and 3, web adjacent to diaphragm, surface rust	3	2	2	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	26	6	12	8	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **301**	Seal Damage	both shoulders, seal damage (up to 1 inch deep)	3	8	8	Feet
☑ **301**	Debris Impaction	6 feet of debris impaction at joint at bent 2, in both shoulders with active vegetation.	2			Feet
☑ **301**	Seal Cracking	along the length of the joint, seal cracks at random	2	12		Feet

General Comments

Span 3 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

☑ **311**	Corrosion	freckled rust/pack rust	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	freckled rust/pack rust	4	1	1	Square Feet

General Comments

Span 3 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	
☑ **311**	Corrosion	surface rust/pack rust	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust/pack rust	4	1	1	Square Feet

General Comments

Span 3 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	
☑ **311**	Corrosion	surface rust/pack rust	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust/pack rust	4	1	1	Square Feet

General Comments

Span 3 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	
☑ **311**	Corrosion	pack rust	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	pack rust	4	1	1	Square Feet

General Comments

Span 3 — 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	
☑	**311**	Corrosion	freckled rust/pack rust	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	freckled rust/pack rust	4	1	1	Square Feet

General Comments

Span 3 — Far Bearing 1

Fixed Bearing

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

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**313**	Corrosion	freckled rust/pack rust	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	freckled rust/pack rust	4	1	1	Square Feet

General Comments

Span 3 — 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	
☑	**313**	Corrosion	freckled rust	2	1		Each
☑	**515**	Effectiveness (Steel Protective Coatings)	freckled rust	2	1	1	Square Feet

General Comments

Span 3 — 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	
☑	**313**	Corrosion	freckled rust	2	1		Each

☑ **515**	Effectiveness (Steel Protective Coatings)	freckled rust	2	1	1	Square Feet	

General Comments

Span 3 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	
☑ **313**	Corrosion	freckled rust	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	freckled rust	2	1	1	Square Feet

General Comments

Span 3 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	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	surface rust	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	limited effectiveness of protective coating	3	1	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	1,446	0	1,443	3	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **12**	Patched Areas	18 inch diameter sound asphalt patch, in northbound lane, near midspan, with associated adjacent delaminations and broken asphalt	3	3	3	Square Feet
☑ **12**	Abrasion/Wear (PSC/RC)	throughout, wear with secure aggregate	2	713		Square Feet
☑ **12**	Cracking (RC and Other)	random hairline map cracking and transverse cracks up to 1/32 inch wide on topside and underside.	2	723	723	Square Feet
☑ **12**	Exposed Rebar	(PAR) 2 - spalls with exposed reinforcing up to 2 inch diameter x 1 inch deep, in underside of right overhang, at random.	2	2	2	Square Feet
☑ **12**	Exposed Rebar	(PAR) 5 - spalls with exposed reinforcing up to 4 inch x 2 inch x 1 inch deep, in underside of left overhang, at random.	2	5	5	Square Feet

☑ **12**	Delamination/Spall	(2023 defect moved to bent 3 joint) 12 inch x 6 inch x 1 inch deep spall, at centerline of bent 3 joint.	1		Square Feet

General Comments

Span 4 Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	41	40	1	0	0	Feet
515	Steel Protective Coating	411	410	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 3, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 10 inch x 1 inch) with corrosion reinitiated	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bent 3, web adjacent to diaphragm, surface rust	3	1	1	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	41	40	1	0	0	Feet
515	Steel Protective Coating	411	411	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 3, web adjacent to diaphragm, painted over pitting (up to 1/8 inch deep x 8 inch x 2 inch)	2	1		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	41	40	0	0	1	Feet
515	Steel Protective Coating	411	411	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 3, web adjacent to diaphragm, painted over section loss (1/4 inch average remaining x 12 inch x 4 inch)	4	1	1	Feet

General Comments

Span 4 Beam 4

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	41	40	1	0	0	Feet
515	Steel Protective Coating	411	410	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 3, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 11 inch x 1 inch) with corrosion reinitiated	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bent 3, web adjacent to diaphragm, surface rust	3	1	1	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	41	40	0	0	1	Feet
515	Steel Protective Coating	411	409	0	1	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 3, web adjacent to diaphragm, painted over section loss (approximately 3/8 inch average remaining x 10 inch x 1 inch) with corrosion reinitiated; underside of bottom flange, rust scale; no safe ladder access to exterior face	4	1	1	Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bent 3, underside of bottom flange, rust scale	4	1	1	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bent 3, web adjacent to diaphragm, surface rust	3	1	1	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	42	36	0	6	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Delamination/Spall	along the length of the rail, spalls (up to 8 inch x 7 inch x 1 inch deep) with exposed rusted rebar	3	6	6	Feet
☑ **331**	Delamination/Spall	(combined with other notes 2023) 3 additional spalls with exposed reinforcing up to 3 inch x 2 inch x 1 inch deep, in traffic face, near bent 3.	1			Feet
☑ **331**	Delamination/Spall	(combined with other notes 2023) 6 - spalls with exposed reinforcing up to 4 inch x 2 inch x 1/2 inch deep, in traffic face, near midspan.	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	
☑ **311**	Corrosion	freckled rust/pack rust.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	freckled rust/pack rust	4	1	1	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	(combined with other notes 2023) partially effective protective coating	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	
☑ **313**	Corrosion	freckled rust	2	1		Each
☑ **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	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	
☑ **311**	Corrosion	freckled rust.	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	freckled rust	2	1	1	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	(combined with other notes 2023) partially effective protective coating	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	
☑	313	Corrosion	freckled rust	2	1		Each
☑	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	0	1	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	311	Loss of Bearing Area	(PAR) south edge of masonry plate, undermined (13 inch x 3 inches deep) due to cap step spall; masonry plate displaced downward (up to 1/2 inch)	4	1	1	Each
☑	311	Corrosion	freckled rust/pack rust	3		1	Each
☑	515	Effectiveness (Steel Protective Coatings)	freckled rust/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	
☑	313	Corrosion	freckled rust	2	1		Each
☑	515	Effectiveness (Steel Protective Coatings)	freckled rust	2	1	1	Square Feet

General Comments

Span 4 — Near Bearing 4

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	freckled rust	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	freckled rust	2	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	
☑ **313**	Corrosion	freckled rust	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	freckled rust	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	
☑ **311**	Corrosion	freckled rust/pack rust.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	freckled rust/pack rust	4	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	26	0	0	16	10	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **301**	Seal Adhesion	missing joint material [up to full depth] in left and right shoulder, and centerline	4	10	10	Feet

☑ **301**	Adjacent Deck or Header	along centerline, edge spall (13 inch x 6 inch x 1.5 inch deep)	3		2	Feet
☑ **301**	Seal Cracking	cracking up to 1/4 inch wide, full length.	3	16		Feet
☑ **301**	Debris Impaction	6 feet of debris impaction at joint at bent 3, in both shoulders with active vegetation.	2			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	34	23	10	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Delamination/Spall	14 inch x 6 inch x 1 inch deep area of honeycombing in face of cap under beam 2	3	1	1	Feet
☑ **234**	Cracking (RC and Other)	10 - vertical cracks in North face extending to topside of cap up to full height x 1/32 inch wide, at random throughout	2	10		Feet

General Comments

Bent 1 — Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	29	18	7	4	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Delamination/Spall	10 inch x 2 inch x 1/2 inch deep spall with exposed reinforcing [no section loss noted] in West face underside of corbel	3	1	1	Feet
☑ **234**	Delamination/Spall	in north face under bay 3, delamination/spall [up to 3 feet x up to 15 inch x 1.5 inch deep]	3	3	3	Feet
☑ **234**	Delamination/Spall	at North face under beam 2, delamination [1 foot diameter]	2	1	1	Feet
☑ **234**	Delamination/Spall	south face, below bay 4 and right overhang, along top edge, delamination (6 feet x 8 inch) with associated cracks (up to 1/32 inch); southeast corner, patched area (20 inch x 18 inch)	2	6	6	Feet
☑ **234**	Cracking (RC and Other)	(combined with other notes 2023) 4 feet horizontal crack in south face, under bay 4.	1			Feet
☑ **234**	Cracking (RC and Other)	(combined with other notes 2023) up to 5 foot x up to 1/16 inch horizontal crack in south face, at east end, under beam 5.	1	1		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	36	25	10	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **215**	Delamination/Spall	left overhang, adjacent to beam 1, poor consolidation (12 inch x 8 inch x 1 inch deep)	3	1	1	Feet
☑ **215**	Cracking (RC and Other)	throughout backwall in all bays, multiple areas of hairline map cracking	2	10		Feet

General Comments

Bent 2 Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	29	15	8	6	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Delamination/Spall	north face, below bays 2 and 3, near beam 3, spall/delamination (6 feet x 15 inch x up to 2 inches deep) with associated cracks (up to 1/16 inch)	3	6	6	Feet
☑ **234**	Cracking (RC and Other)	(combined with other notes 2023) horizontal cracks up to 1/32 inch wide, in north face, under beam 3.	2			Feet
☑ **234**	Cracking (RC and Other)	south face, below bays 1-3, longitudinal cracks (up to 1/32 inch x 5 feet) with adjacent map cracks (hairline)	2	4		Feet
☑ **234**	Delamination/Spall	at northeast corner, (2) delaminations (up to 1 foot x 6 inch)	2	2	2	Feet
☑ **234**	Delamination/Spall	delamination [19 inch x 7 inch] at north face extending to topside, under bay 1.	2	2	2	Feet
☑ **234**	Cracking (RC and Other)	(combined with other notes 2023) 3 foot horizontal and vertical cracks up to 1/16 inch wide, north face, under bay 4.	1			Feet
☑ **234**	Cracking (RC and Other)	(combined with other notes 2023) horizontal crack up to 1/16 inch wide, in south face, under bay 1.	1			Feet
☑ **234**	Delamination/Spall	(not found 2023) under beam 4, delamination [1 foot x 1.5 feet]	1			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	34	24	10	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Cracking (RC and Other)	10 - vertical cracks up to 1/32 inch wide, in face of cap, at random throughout	2	10		Feet

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	36	30	6	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **215**	Cracking (RC and Other)	throughout backwall in all bays, multiple areas of hairline map cracking	2	6		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	29	19	7	3	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Delamination/Spall	(PAR) at span 4 beam 4 cap step, south face, spall/delamination (2.5 feet x 7 inch x 4 inches deep) undermining bearing	3	3	3	Feet
☑ **234**	Cracking (RC and Other)	3 foot horizontal crack up to 1/32 inch wide, south face, under beam 5.	2	3		Feet
☑ **234**	Cracking (RC and Other)	4 foot horizontal crack up to 1/32 inch wide, in north face, under bay 1.	2	4		Feet
☑ **234**	Cracking (RC and Other)	at North face under beam 5, up to 1/64 inch vertical cracks	2			Feet

General Comments

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1446
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	41
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	41
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	41
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	41
Span 1	Beam 5	Plate Girder	Steel Open Girder/Beam	41
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	42
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	42
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	1807
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	52
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	52
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	52
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	52
Span 2	Beam 5	Plate Girder	Steel Open Girder/Beam	52
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 2	Expansion Joint at Bent 1	Standard Joint	Pourable Joint Seal	26
Span 2	Far Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 1	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 2	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 3	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 4	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 5	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 5	Movable Bearing	Movable Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1807
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	52
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	52
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	52
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	52
Span 3	Beam 5	Plate Girder	Steel Open Girder/Beam	52
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 3	Expansion Joint at Bent 2	Standard Joint	Pourable Joint Seal	26
Span 3	Far Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing 1	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing 2	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing 3	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing 4	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing 5	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing 5	Movable Bearing	Movable Bearing	1
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1446
Span 4	Beam 1	Plate Girder	Steel Open Girder/Beam	41
Span 4	Beam 2	Plate Girder	Steel Open Girder/Beam	41
Span 4	Beam 3	Plate Girder	Steel Open Girder/Beam	41
Span 4	Beam 4	Plate Girder	Steel Open Girder/Beam	41
Span 4	Beam 5	Plate Girder	Steel Open Girder/Beam	41
Span 4	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	42
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	42
Span 4	Expansion Joint at Bent 3	Standard Joint	Pourable Joint Seal	26
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	29
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	34
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	36
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	29
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	34
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	36
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	29
Bent 3	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1

Elements Verfied

Location	Name	Component	Element Name	Amount
Bent 3	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 110169 **Inspection Date:** 10/03/2023

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	**6**
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	**F**	**6506**	**3376**
Drainage System	G, F, P, or C	**F**	**0**	**3332**
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	**F**	**56**	**3352**
Scour	G, F, P, or C			
Wingwall	G, F, P, or C	**F**	**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 Insepction Item is not present, leave NC SMU item blank

Inspection Information

Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	**Y**
Priority Maintenance Request Submitted	YES/NO	**Y**
Inspection Time	Hours	**9**
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: 110169 **Inspection Date:** 10/03/2023

Item	Sign Notice Issued	**Grade**	Y	**Maint Code**		**Qty.**	0
Details	(PAR) span 3, over I-40 westbound, minimum vertical clearance measured as 14 feet-6 inches; no vertical clearance signs in place						
Item	Deck Debris	**Grade**	F	**Maint Code**	3376	**Qty.**	6506
Details	along the curblines, debris accumulation (up to 3.5 feet wide x 10 inches wide) with vegetation, obstructing deck drainage; primarily along left curb						
Item	Drainage System	**Grade**	F	**Maint Code**	3332	**Qty.**	0
Details	see deck debris notes						
Item	Slope Protection	**Grade**	F	**Maint Code**	3352	**Qty.**	56
Details	end bent 2 slope protection, at random, transverse cracks (up to 1/16 inch x 8 feet) end bent 1 slope protection, at random, transverse cracks (up to 1/32 inch x 8 feet)						
Item	Wingwalls	**Grade**	F	**Maint Code**	3350	**Qty.**	0
Details	southeast wingwall, along top, spall (6 inch diameter x 1.5 inch deep)						
Item	General Comments and Misc Items	**Grade**		**Maint Code**		**Qty.**	0
Details	north and south approach asphalt, repaved since 2021 routine inspection (PAR) southwest guardrail termination, impact damage (1 foot) (PAR) southeast guardrail attachment, improper lap (PAR) northwest guardrail, near termination, impact damage (10 feet) (PAR) northwest guardrail attachment, improper lap (PAR) southeast guardrail termination, disconnected termination block						

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

(PAR) southeast guardrail attachment, improper lap

(PAR) northwest guardrail, near termination, impact damage (10 feet)

(PAR) northwest guardrail attachment, improper lap

along the curblines, debris accumulation (up to 3.5 feet wide x 10 inches wide) with vegetation, obstructing deck drainage; primarily along left curb

(PAR) southeast guardrail termination, disconnected termination block

Span 1 Deck: map cracking up to 1/16 inch wide throughout

Span 1 Deck: throughout top of deck, wear with secure aggregate (up to 1/2 inch deep)

Span 1 Deck: southbound lane, near end bent 1, partially patched spall (18 inch x 15 inch x 1.5 inch deep)

Span 1 Left Bridge Rail: 5 - spalls with exposed reinforcing up to 3 inch x 1 inch x 1/2 inch deep, in traffic and outside faces, at random., no section loss noted.

Span 2 Expansion Joint at Bent 1: both shoulders, seal damage (up to 1 inch deep)

Span 2 Expansion Joint at Bent 1: along the length of the joint, seal cracks at random

Span 2 Deck: (PAR) southbound lane, at bent 1, spall (2 feet x 6 inch x 1 inch deep) with exposed rusted rebar

Span 2 Deck: up to 9 foot x 4.5 foot wide patches with up to 3 foot x 15 inch x 1.5 inch deep spalls/delaminations, at centerline, far half of span.

Span 2 Deck: up to 9 foot x 4.5 foot wide patches with up to 3 foot x 15 inch x 1.5 inch deep spalls/delaminations, at centerline, far half of span.

Span 2 Deck: throughout top of deck, spalls/delaminations (up to 6 inch diameter x 1 inch deep)

Span 3 Expansion Joint at Bent 2: along the length of the joint, seal cracks at random

Span 2 Left Bridge Rail: 4 feet of patched rail and curb x full height, with cracks up to 1/32 inch, near midspan.

Span 2 Left Bridge Rail: 6 - spalls with exposed reinforcing up to 8 inch x 1 inch x 1/2 inch deep, at random.

Span 3 Deck: throughout left sidewalk, multiple areas hairline map cracking

Span 3 Deck: random hairline map cracking and transverse cracks up to 1/32 inch wide.

Span 4 Expansion Joint at Bent 3: missing joint material [up to full depth] in left and right shoulder, and centerline

Span 4 Left Bridge Rail: along the length of the rail, spalls (up to 8 inch x 7 inch x 1 inch deep) with exposed rusted rebar

Span 4 Expansion Joint at Bent 3: along centerline, edge spall (13 inch x 6 inch x 1.5 inch deep)

Span 4 Deck: 18 inch diameter sound asphalt patch, in northbound lane, near midspan, with associated adjacent delaminations and broken asphalt

Span 4 Deck: random hairline map cracking and transverse cracks up to 1/32 inch wide on topside and underside.

Span 4 Beam 4 - Far Bearing 4: freckled rust

End Bent 2 Cap 1: 10 - vertical cracks up to 1/32 inch wide, in face of cap, at random throughout

End Bent 2 Abutment: throughout backwall in all bays, multiple areas of hairline map cracking

Span 4 Deck: random hairline map cracking and transverse cracks up to 1/32 inch wide on topside and underside.

Span 4 Deck: (PAR) 2 - spalls with exposed reinforcing up to 2 inch diameter x 1 inch deep, in underside of right overhang, at random.

Span 4 Deck: (PAR) 5 - spalls with exposed reinforcing up to 4 inch x 2 inch x 1 inch deep, in underside of left overhang, at random.

end bent 2 slope protection, at random, transverse cracks (up to 1/16 inch x 8 feet)

End Bent 1 Abutment: left overhang, adjacent to beam 1, poor consolidation (12 inch x 8 inch x 1 inch deep)

End Bent 1 Cap 1: 14 inch x 6 inch x 1 inch deep area of honeycombing in face of cap under beam 2

End Bent 1 Abutment: throughout backwall in all bays, multiple areas of hairline map cracking

End Bent 1 Cap 1: 10 - vertical cracks in North face extending to topside of cap up to full height x 1/32 inch wide, at random throughout

southeast wingwall, along top, spall (6 inch diameter x 1.5 inch deep)

Span 1 Deck: (PAR) 5 - spalls with exposed reinforcing up to 4 inch diameter x 1 inch deep, in underside of left overhang, at random.

Span 1 Deck: (PAR) 7 - spalls with exposed reinforcing up to 4 inch diameter x 1 inch deep, in underside of right overhang, at random.

Span 1 Deck: up to 1/32 inch transverse cracks, some with efflorescence, on underside of deck throughout

Span 1 Beam 1: 15 inch x 6 inch x 1.5 inch deep spall with exposed reinforcing, in end diaphragm, west overhang, at bent 1.

Span 1 Deck: throughout underside of deck, scattered areas of poor consolidation (up to 1/2 inch deep) at random

Span 1 Beam 1: (PAR) at bent 1, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 3 inch x 2 inch); painted over pitting: lower web (up to 1/8 inch deep x 1 foot x 1 foot); bottom flange (up to 1/8 inch deep x 1 foot); underside of bottom flange, rust scale

Span 1 Beam 1: (PAR) at bent 1, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 3 inch x 2 inch); painted over pitting: lower web (up to 1/8 inch deep x 1 foot x 1 foot); bottom flange (up to 1/8 inch deep x 1 foot); underside of bottom flange, rust scale

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

Span 2 Beam 1 - Near Bearing 1: surface rust/pack rust.

Span 1 Beam 2 - Far Bearing 2: (not found 2023) surface rust.

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

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

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

Span 1 Beam 5 - Far Bearing 5: corrosion with section loss (up to 1/8 inch deep) and pack rust

Bent 1 Cap 1: south face, below bay 4 and right overhang, along top edge, delamination (6 feet x 8 inch) with associated cracks (up to 1/32 inch); southeast corner, patched area (20 inch x 18 inch)

Bent 1 Cap 1: at North face under beam 2, delamination [1 foot diameter]

Bent 1 Cap 1: in north face under bay 3, delamination/spall [up to 3 feet x up to 15 inch x 1.5 inch deep]

Bent 1 Cap 1: 10 inch x 2 inch x 1/2 inch deep spall with exposed reinforcing [no section loss noted] in West face underside of corbel

Span 2 Beam 1: underside of bottom flange, over right travel lane, impact scrapes

Span 2 Beam 4: underside of bottom flange, near bent 1, freckled rust

Span 2 Beam 5: (PAR) at bent 1, web adjacent to diaphragm, painted over section loss (approximately 3/8 inch average remaining x 7 inch x 1 inch); no safe ladder access to exterior face

Span 1 Beam 5: (PAR) at bent 1, web adjacent to diaphragm, painted over section loss (approximately 3/8 inch average remaining x 8 inch x 1 inch); no safe ladder access to exterior face

Span 2 Deck: (PAR) 5 - spalls with exposed reinforcing in underside of right overhang up to 2 inch diameter x 1 inch deep, 20 feet from bent 2.

Span 2 Deck: throughout underside in all bays, multiple areas of hairline map cracking

Bent 2 Cap 1: south face, below bays 1-3, longitudinal cracks (up to 1/32 inch x 5 feet) with adjacent map cracks (hairline)

Bent 2 Cap 1: south face, below bays 1-3, longitudinal cracks (up to 1/32 inch x 5 feet) with adjacent map cracks (hairline)

Span 2 Beam 2: 2 foot x full width x 6 inch deep spall/delamination in end diaphragm at bent 2, under bay 2 adjacent to beam 3.

Span 3 Beam 1: at bent 2, web adjacent to diaphragm, painted over pitting (up to 1/8 inch deep x 4 inch x 1 inch) with corrosion reinitiated; web and top flange, surface rust

Span 3 Beam 1 - Near Bearing 1: freckled rust/pack rust

Span 3 Beam 1: (PAR) 2023 area repainted with new impact scrapes/gouges (up to 1/8 inch deep); previous diaphragm weld crack and missing bolts repaired; previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: POINT OF IMPACT 9 FEET LONG WITH SCATTERED 1 inch DEEP INDENTIONS THROUGH OUT BOTTOM FLANGE , AT 12 FEET-9 INCHES FROM INTERIOR BENT 3 . BEAM 1 DEFLECTION 1 INCH TO THE WEST. Top repair plate PULLED LOOSE FROM DECK EAST SIDE FOR A LENGTH OF 30 FEET X 3/4 INCH .,EAST SIDE OF BOTTOM FLANGE BENT UPWARD 1/2 INCH. SCATTERED SCRAPES ALONG BOTTOM FLANGE AND WEB . SCATTERED OLD SCRAPES AND INDENTIONS ALONG BOTTOM FLANGE .

Span 3 Beam 1: (PAR) 2023 area repainted with new impact scrapes/gouges (up to 1/8 inch deep); previous diaphragm weld crack and missing bolts repaired; previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: POINT OF IMPACT 9 FEET LONG WITH SCATTERED 1 inch DEEP INDENTIONS THROUGH OUT BOTTOM FLANGE , AT 12 FEET-9 INCHES FROM INTERIOR BENT 3 . BEAM 1 DEFLECTION 1 INCH TO THE WEST. Top repair plate PULLED LOOSE FROM DECK EAST SIDE FOR A LENGTH OF 30 FEET X 3/4 INCH .,EAST SIDE OF BOTTOM FLANGE BENT UPWARD 1/2 INCH. SCATTERED SCRAPES ALONG BOTTOM FLANGE AND WEB . SCATTERED OLD SCRAPES AND INDENTIONS ALONG BOTTOM FLANGE .

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Span 3 Beam 1: bay 1 end diaphragm at bent 2, spall (1 foot diameter x 2 inch deep) with adjacent diagonal crack (1/32 inch x 3 feet) with efflorescence

Span 3 Beam 2: (PAR) 2023 area repainted with new impact scrapes/gouges up to 1/8 inch deep; previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: beam 2 span 3 deflected upward 1/2 inch at 19.5 inches from bent 2 for a length of 4 feet, with scrapes on bottom flange

Span 3 Beam 2: (not found 2023) SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: SCATTERED SCRAPES WEB OF BEAM 2 .

Span 3 Beam 2: (not found 2023) SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: SCATTERED SCRAPES WEB OF BEAM 2 .

Span 3 Beam 3: 2023 area repainted; previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022. : SCATTERED SCRAPES ALONG BOTTOM FLANGE OF BEAM 3

Span 3 Beam 3: two indentions in bottom flange of beam 3 span 3. one 1/4 inch deep and one 1/2 inch deep at 15.583 feet from bent 2 for a total length of 1 foot

Span 3 Beam 3: beam 3 span 3 deflected upward 1/4 inch for a length of 3 feet at 15 feet from bent 2

Span 3 Beam 4: 2023 area repainted; previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: Beam 4 Span 3 has scrapes to bottom flange at 16.75 feet from bent 3 for a total length of 1 foot

Span 3 Beam 5: 2023 area repainted with new impact scrapes; previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: two 1/4 inch deep indentions in bottom flange of beam 5 span 3 at 16.5 feet from bent 3 . SCATTERED SCRAPES

Span 3 Deck: surface spalling up to 1 foot x 4 inch x 1/2 inch deep, full length, underside of deck along both sides of beam 2.

Span 3 Deck: surface spalling up to 1 foot x 4 inch x 1/2 inch deep, full length, underside of deck along both sides of beam 2.

Span 3 Deck: spalling up to 12 INCH WIDE X 1 INCH deep, full length, underside of deck along both sides of beam 1.

Span 3 Deck: spalling up to 12 INCH WIDE X 1 INCH deep, full length, underside of deck along both sides of beam 1.

Span 3 Deck: (PAR) up to 4 feet long x 10 inch wide x 1 inch deep spalling, some with exposed rusted rebar, in underside of deck, along edges of beam 3.

Span 3 Beam 1: at bent 2, web adjacent to diaphragm, painted over pitting (up to 1/8 inch deep x 4 inch x 1 inch) with corrosion reinitiated; web and top flange, surface rust

Span 2 Beam 3: at bent 2, web over bearing, painted over pitting (1/8 inch deep x 7 inch x 10 inch) with corrosion reinitiated

Span 3 Beam 3 - Near Bearing 3: 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 6 inch x 1 inch) with corrosion reinitiated

Span 2 Beam 5: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 9 inch x 1 inch); east top flange, painted over pitting (up to 1/8 inch deep x 6 inches x 4 inches) with corrosion reinitiated

Span 2 Beam 1: 12 inch x 5 inch x 1.5 inch deep patched spall in end diaphragm, in west overhang at bent 2

Bent 2 Cap 1: (not found 2023) under beam 4, delamination [1 foot x 1.5 feet]

Bent 2 Cap 1: delamination [19 inch x 7 inch] at north face extending to topside, under bay 1.

Bent 2 Cap 1: north face, below bays 2 and 3, near beam 3, spall/delamination (6 feet x 15 inch x up to 2 inches deep) with associated cracks (up to 1/16 inch)

Span 2 Beam 5: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 9 inch x 1 inch); east top flange, painted over pitting (up to 1/8 inch deep x 6 inches x 4 inches) with corrosion reinitiated

Span 3 Beam 1: (PAR) 2023 area repainted with new impact scrapes/gouges (up to 1/8 inch deep); previous diaphragm weld crack and missing bolts repaired; previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022.: POINT OF IMPACT 9 FEET LONG WITH SCATTERD 1 inch DEEP INDENTIONS THROUGH OUT BOTTOM FLANGE , AT 12 FEET-9 INCHES FROM INTERIOR BENT 3 . BEAM 1 DEFLECTION 1 INCH TO THE WEST. Top repair plate PULLED LOOSE FROM DECK EAST SIDE FOR A LENGTH OF 30 FEET X 3/4 INCH .,EAST SIDE OF BOTTOM FLANGE BENT UPWARD 1/2 INCH. SCATTERED SCRAPES ALONG BOTTOM FLANGE AND WEB . SCATTERED OLD SCRAPES AND INDENTIONS ALONG BOTTOM FLANGE .

Span 4 Beam 4: at bent 3, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 11 inch x 1 inch) with corrosion reinitiated

Span 4 Beam 5: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (approximately 3/8 inch average remaining x 10 inch x 1 inch) with corrosion reinitiated; underside of bottom flange, rust scale; no safe ladder access to exterior face

Span 4 Beam 3: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (1/4 inch average remaining x 12 inch x 4 inch)

Span 4 Beam 3 - Near Bearing 3: (PAR) south edge of masonry plate, undermined (13 inch x 3 inches deep) due to cap step spall; masonry plate displaced downward (up to 1/2 inch)

Span 4 Beam 3 - Near Bearing 3: (PAR) south edge of masonry plate, undermined (13 inch x 3 inches deep) due to cap step spall; masonry plate displaced downward (up to 1/2 inch)

Bent 3 Cap 1: (PAR) at span 4 beam 4 cap step, south face, spall/delamination (2.5 feet x 7 inch x 4 inches deep) undermining bearing

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

Span 4 Beam 3: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (1/4 inch average remaining x 12 inch x 4 inch)

Bent 3 Cap 1: (PAR) at span 4 beam 4 cap step, south face, spall/delamination (2.5 feet x 7 inch x 4 inches deep) undermining bearing

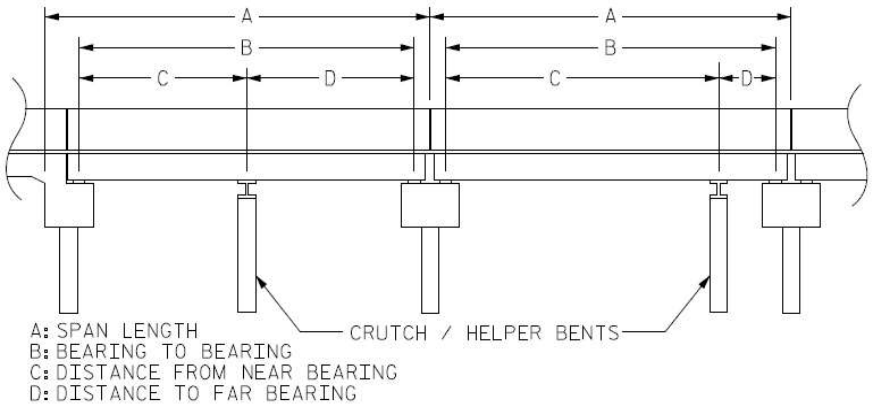
Span 3 Beam 1: (PAR) 2023 area repainted with new impact scrapes/gouges (up to 1/8 inch deep); previous diaphragm weld crack and missing bolts repaired; previously noted as: impact damage to beam 1 span 3, starting at 14 feet-7 inches from bent 3 for a total length of 6 feet-8 inches. beam deflected 2 inches westward. bottom flange bent upward 2 inches for a length of 20 inches at 18 feet from bent 3 with three indentions. first indention at 18 feet from bent 3, 1.5 inches long x 1.25 inches high x 1 inch deep. second indention at 18 feet-5 inches from bent 3, 2.5 inches long x 1.5 inches high x 0.25 inch deep. third indention at 18 feet-8 inches from bent 3, 2 inches long x 1 inch high x 0.25 inch deep.

Span 3 Beam 1: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (approximately 3/8 inch average remaining x 9 inch x 1 inch) with corrosion reinitiated; no safe ladder access to exterior face

Structure Data Worksheet

Span Profile

County: **BURKE** Structure Number: **110169**



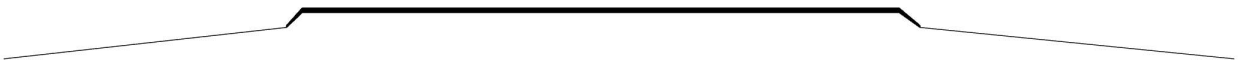
Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	42.000	40.250			
2	52.500	51.500			
3	52.500	51.500			
4	42.000	40.250			

Structure Number: 110169 Span: 3 Route Name: I-40 w

Looking West on I-40 Clearance

Route Number: 11000400	**Route Name:** I-40 w			**Reference Feature:** H
Minimum Vertical Clearance 15.500 feet	**Maximum Minimum Vertical Clearance** 14.583 feet			
Total Horizontal Clearance 43.040 feet	**Lateral Clearances: Left:** 13.500 feet	**Right** 11.900 feet		
☑ **Base Highway Network**	**LRS Inventory Route, Sub Route Number**			
Milepost: 117.200	**Number of Lanes:** 2	**ADT:** 25500	**Year of ADT:** 2019	**Percentage of Trucks:** 16
☑ **National Highway System**	☐ **STRAHNET Highway Designator**			
Functional Classification 11	Local Principal Arterial - Interstate	**Direction of Traffic:** 1	1 - way traffic	

Bridge Inspection Field Sketch



Roadway	19ft Wide	2 Paved Lanes	Looking North
Left Shoulder	9.5ft Wide	0.5ft Paved	9ft Unpaved
Right Shoulder	10.667ft Wide	0.667ft Paved	10ft Unpaved
Left Guardrail			
Right Guardrail			

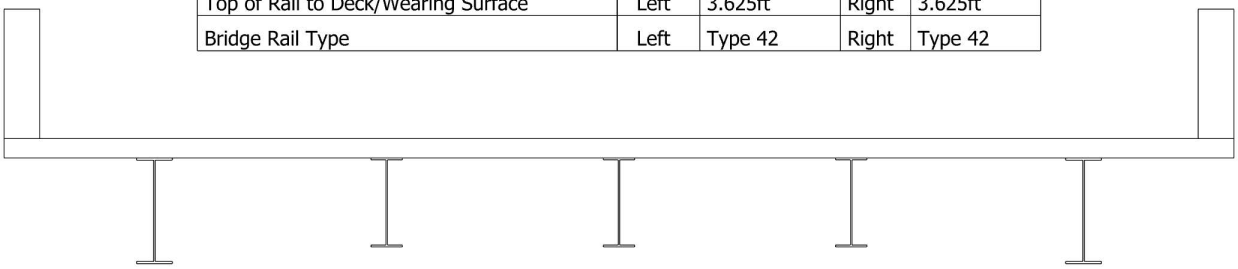
Measurements taken approximately 100 feet from end bent 1

Title	Description
APPROACH ROADWAY	LOOKING NORTH

Structure No:	Drawn By:	Date:	Filename:
110169	ITChapman	10/3/2023	S000918000503.wes

Bridge Inspection Field Sketch

Deck Width/Out to Out	34.417ft	Between Rails			32.25ft
Clear Roadway	26ft	Wearing Surface			
Median Width		Median Height			
Curb Height		Left	10in	Right	10in
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	3.625ft	Right	3.625ft
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)	7.125ft	Right Overhang	4.208ft

Beam #	Beam Type	Width	Height	Spacing	From
1	Plate Girder	12in	35.5in	4.208ft	Left Edge of Deck
2	Plate Girder	10.5in	29.875in	6.5ft	Beam 1
3	Plate Girder	10.5in	29.875in	6.5ft	Beam 2
4	Plate Girder	10.5in	29.875in	6.5ft	Beam 3
5	Plate Girder	12in	35.5in	6.5ft	Beam 4

Span 1 & 4 Exterior Beams: 34" between flanges, 12" wide x 3/4" thick flange, 1/2" web

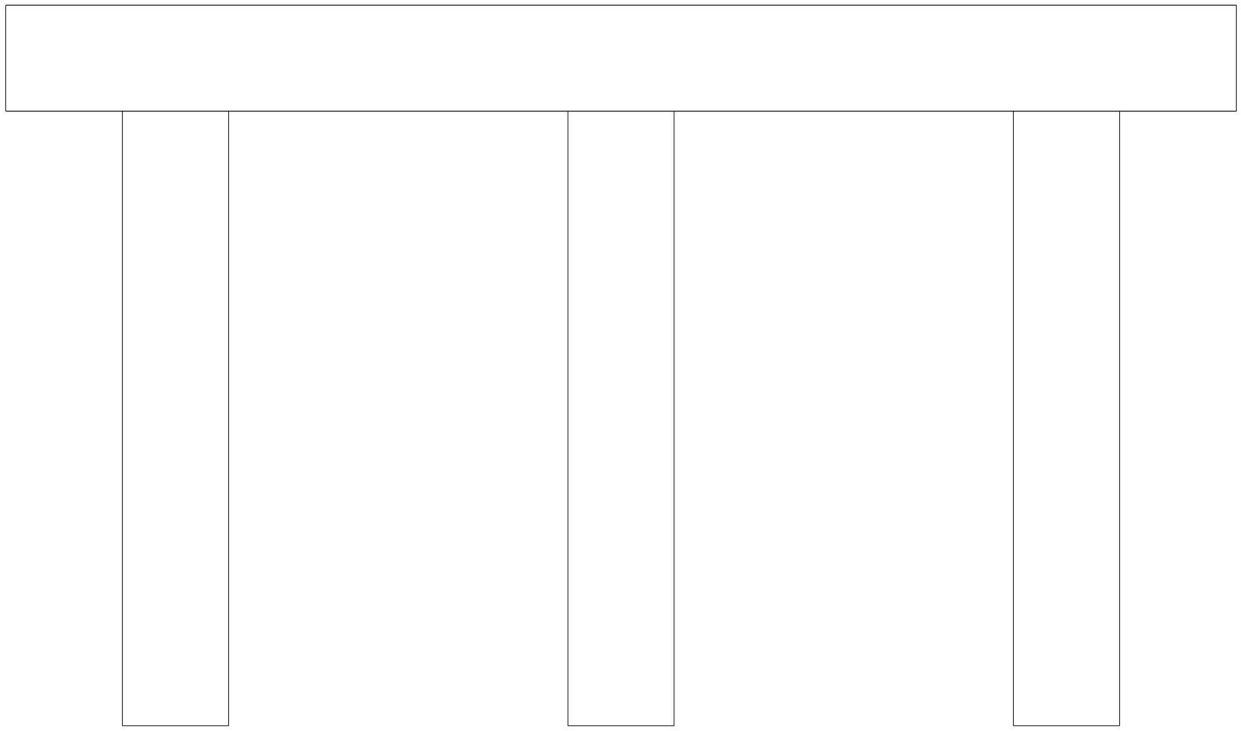
Span 1 & 4 Interior Beams: 28-5/8" between flanges, 10-1/2" wide x 5/8" thick flange, 1/2" web

Span 2 & 3 Beams: 34" between flanges, 12" wide x 7/8" thick flange, 1/2" web

Title	Description
TYPICAL SECTION	LOOKING NORTH

Structure No:	Drawn By:	Date:	Filename:
110169	ITChapman	10/3/2023	S000918000504.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	29ft	30in	30in	1.5ft	1.5ft

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	10.5ft	Pile 1	30in	30in	
3	Pile 3	Reinforced Concrete Column	10.5ft	Pile 2	30in	30in	

Title	Description
BENTS 1-3	LOOKING NORTH

Structure No: 110169	Drawn By: ITChapman	Date: 10/3/2023	Filename: S000918000505.wes

southeast guardrail termination

southeast guardrail

southwest guardrail termination

southwest guardrail

south approach looking north

southwest guardrail attachment

end bent 1 deck (end bent 2 similar)

southeast guardrail transition

southeast guardrail attachment

bridge ID

right bridge rail

left bridge rail

bridge deck

south approach looking south

bent 1 joint

bent 2 joint

roadway looking east

roadway looking west

bent 3 joint

north approach looking north

northeast guardrail attachment

northeast guardrail

northeast guardrail termination

northwest guardrail termination

northwest guardrail

northwest guardrail transition

northwest guardrail attachment

north approach looking south

northeast wingwall

end bent 2

end bearing assembly

northwest wingwall

bent 3

end bent 2 slope protection

end bent 1 slope protection

ladder used

bent 1

bent 2

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

west profile looking east

superstructure underside, span 2 (span 3 similar)

intermediate diaphragm

end diaphragm

superstructure underside, span 1 (span 4 similar)

southwest wingwall

end bent 1

southeast wingwall

interior bearing assembly at bent 1 (bent 3 similar)

exterior beams over bent 1 (bent 3 similar)

interior beams over bent 1 (bent 3 similar)

interior bearing assembly at bent 2

beams over bent 2

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

east profile looking west