NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: prompt action request; sketches revised

Structure Safety Report

Routine Element Inspection - Contract

STRUCTURE NUMBER: 110144 **SAP STRUCTURE NO:** 0120144 **FHWA STRUCTURE NO** 000000000230144

DIVISION: 13 **COUNTY:** BURKE **INSPECTION DATE:** 08/10/2023 **FREQUENCY:** 24 MONTHS

FACILITY CARRIED: SR1704 **MILE POST:**

LOCATION: .2 MI.N.JCT.SR1712

FEATURE INTERSECTED: I-40

LATITUDE: 35° 43' 31.7" **LONGITUDE:** 81° 38' 10.99"

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON I-BEAMS

SUBSTRUCTURE: E.BTS:RC CAPS/TIMBER 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** 5 / 5 **SUBSTRUCTURE** 5 / 5 **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
NO	**LOW CLEARANCE**	0

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS

INSPECTED BY	SIGNATURE	ASSISTED BY
Hector Bonilla	Hector Bonilla	Juan Rodriguez

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

11/01/2023

IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE **110144**
(8) STRUCTURE NUMBER (FEDERAL) **0230144**
(5) INVENTORY ROUTE (ON/UNDER) ON **31017040**
(2) STATE HIGHWAY DEPARTMENT DISTRICT **13**
(3) COUNTY CODE (FEDERAL) **23** (4) PLACE CODE **44400**
(6) FEATURE INTERSECTED **I-40**
(7) FACILITY CARRIED **SR1704**
(9) LOCATION **.2 MI.N.JCT.SR1712**
(11) MILEPOINT **0.0**
(12) BASE HIGHWAY NETWORK **0**
(13) LRS INVENTORY ROUTE & SUBROUTE **0**
(16) LATITUDE **35° 43' 31.7"** (17) LONGITUDE **81° 38' 10.99"**
(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 **6**
(B) TYPE OF MEMBRANE CODE **0**
(C) TYPE OF DECK PROTECTION CODE **0**

AGE AND SERVICE

(27) YEAR BUILT **1955**
(106) YEAR RECONSTRUCTED **0**
(42) TYPE OF SERVICE ON - **Overpass Structure**
OFF - **Highway** CODE **61**
(28) LANES ON STRUCTURE **2** LANES UNDER STRUCTURE **8**
(29) AVERAGE DAILY TRAFFIC **3500**
(30) YEAR OF ADT **2018** (109) TRUCK ADT PCT **7**
(19) BYPASS OR DETOUR LENGTH **0.0**

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN **51.0**
(49) STRUCTURE LENGTH **182.0**
(50) CURB OR SIDEWALK: LEFT **3.3** RIGHT **3.3**
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB **26.0**
(52) DECK WIDTH OUT TO OUT **34.3**
(32) APPROACH ROADWAY WITH (W/ SHOULDERS) **31.0**
(33) BRIDGE MEDIAN CODE **6**
(34) SKEW **7** (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** **14.9**
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE **H** **10.5**
(56) MIN LAT UNDERCLEARANCE LT: **13.1**

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 **63.71**
STATUS =

CLASSIFICATION — CODE

(112) NBIS BRIDGE SYSTEM **Y**
(104) HIGHWAY SYSTEM **Inventory Route not on NHS** **0**
(26) FUNCTIONAL CLASS **Urban Collector** **17**
(100) STRAHNET HIGHWAY **Not a STRAHNET Route** **0**
(101) PARALLEL STRUCTURE **0**
(102) DIRECTION OF TRAFFIC **2-way traffic** **2**
(103) TEMPORARY STRUCTURE
(110) DESIGNATED NATIONAL NETWORK - **on national network for trucks** **0**
(20) TOLL **On Free Road** **3**
(21) MAINT - **01**
(22) OWNER - **01**
(37) HISTORICAL SIGNIFICANCE - **5**

CONDITION — CODE

(58) DECK **6**
(59) SUPERSTRUCTURE **5**
(60) SUBSTRUCTURE **5**
(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-31** **56**
(65) INVENTORY RATING METHOD - **1**
(66) INVENTORY RATING **HS-19** **34**
(70) BRIDGE POSTING **No Posting Required** **5**
(41) STRUCTURE OPEN, POSTED, OR CLOSED **A**
DESCRIPTION **Open, no restriction**

APPRAISAL — CODE

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

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 **7,000** YEAR OF FUTURE ADT **2040**

INSPECTION

(90) INSPECTION DATE **08/23** (91) FREQUENCY **24**
(92) CRITICAL FEATURE INSPECTION (93) CFI DATE
A) FRACTURE CRIT DETAIL A)
B) UNDERWATER INSP B)
C) OTHER SPECIAL INSP C)
SCOUR

Structure Number **110144** County **BURKE** Run Date **11/01/2023**

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	15.2	106.4	1	10040	11	2	22500	2015	42.2	H	14.9	10.5	13.1	3		1	☐	☐
3	I 40 W	11000400	16.9	106.4	1	10040	11	2	22500	2015	42.7	H	16.2	10.6	13.2	4		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** 35.330 **Skew** 97.000

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
5	Fixed Bearing	Fixed Bearing	5	Each	Legacy Non Lead Primer System with various Topcoats	5
5	Plate Girder	Steel Open Girder/Beam	175	Feet	Legacy Non Lead Primer System with various Topcoats	1700
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1213	Square Feet		
5	Movable Bearing	Movable Bearing	5	Each	Legacy Non Lead Primer System with various Topcoats	5
2	Concrete Railing	Reinforced Concrete Bridge Railing	72	Feet		
1	Asphalt Wearing Surface	Wearing Surface	919	Square Feet		

Span Number 2 **Span Length** 52.500 **Skew** 97.000

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
5	Movable Bearing	Movable Bearing	5	Each	Legacy Non Lead Primer System with various Topcoats	5
2	Concrete Railing	Reinforced Concrete Bridge Railing	106	Feet		
1	Asphalt Wearing Surface	Wearing Surface	1365	Square Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1803	Square Feet		
1	Standard Joint	Pourable Joint Seal	27	Feet		
5	Fixed Bearing	Fixed Bearing	5	Each	Legacy Non Lead Primer System with various Topcoats	5
5	Plate Girder	Steel Open Girder/Beam	265	Feet	Legacy Non Lead Primer System with various Topcoats	2580

Span Number 3 **Span Length** 52.500 **Skew** 97.000

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
5	Plate Girder	Steel Open Girder/Beam	265	Feet	Legacy Non Lead Primer System with various Topcoats	2580
5	Fixed Bearing	Fixed Bearing	5	Each	Legacy Non Lead Primer System with various Topcoats	5
1	Standard Joint	Pourable Joint Seal	27	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1803	Square Feet		

Superstructure Build Details

5	Movable Bearing	Movable Bearing	5	Each	Legacy Non Lead Primer System with various Topcoats	5
1	Asphalt Wearing Surface	Wearing Surface	1365	Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	106	Feet		

Span Number 4 **Span Length** 42.000 **Skew** 97.000

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
1	Standard Joint	Pourable Joint Seal	27	Feet		
5	Plate Girder	Steel Open Girder/Beam	205	Feet	Legacy Non Lead Primer System with various Topcoats	2030
5	Movable Bearing	Movable Bearing	5	Each	Legacy Non Lead Primer System with various Topcoats	5
5	Fixed Bearing	Fixed Bearing	5	Each	Legacy Non Lead Primer System with various Topcoats	5
2	Concrete Railing	Reinforced Concrete Bridge Railing	84	Feet		
1	Asphalt Wearing Surface	Wearing Surface	1092	Square Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1442	Square Feet		

Structure Element Scoring

Structure Number: **110144**

Inspection Date **8/10/2023**

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	6,261	3,507	2,752	2	0
107		Steel Open Girder/Beam	Beam	910	802	45	50	13
515	107	Steel Protective Coating	Beam	8,890	8,874	0	0	16
205		Reinforced Concrete Column	Piles and Columns	9	0	1	8	0
215		Reinforced Concrete Abutment	Abutments	72	55	15	2	0
220		Reinforced Concrete Pile Cap/Footing	Footing	18	18	0	0	0
228		Timber Pile	Piles and Columns	14	14	0	0	0
234		Reinforced Concrete Pier Cap	Caps	160	56	57	47	0
301		Pourable Joint Seal	Expansion Joints	81	23	6	0	52
311		Movable Bearing	Bearing Device	20	0	4	16	0
515	311	Steel Protective Coating	Bearing Device	20	0	0	1	19
313		Fixed Bearing	Bearing Device	20	0	7	13	0
515	313	Steel Protective Coating	Bearing Device	20	0	0	5	15
331		Reinforced Concrete Bridge Railing	Bridge Rail	368	0	356	12	0
510		Wearing Surface	Wearing Surfaces	4,741	4,061	0	680	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **110144** Inspection Date: **08/10/2023**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Delamination/Spall	154 Square Feet
3326	Reinforced Concrete Deck	Cracking (RC and Other)	2600 Square Feet
3326	Reinforced Concrete Deck	Exposed Rebar	15 Square Feet
3314	Steel Open Girder/Beam	Corrosion	43 Feet
3314	Steel Open Girder/Beam	Distortion	20 Feet
3348	Reinforced Concrete Column	Efflorescence/Rust Staining	5 Each
3348	Reinforced Concrete Column	Delamination/Spall	1 Each
3348	Reinforced Concrete Column	Exposed Rebar	3 Each
3348	Reinforced Concrete Column	Cracking (RC and Other)	4 Each
3350	Reinforced Concrete Abutment	Cracking (RC and Other)	2 Feet
3348	Reinforced Concrete Pier Cap	Exposed Rebar	19 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	2 Feet
3348	Reinforced Concrete Pier Cap	Patched Area	3 Feet
3348	Reinforced Concrete Pier Cap	Efflorescence/Rust Staining	29 Feet
3310	Pourable Joint Seal	Seal Damage	52 Feet
3334	Movable Bearing	Corrosion	16 Each
3334	Fixed Bearing	Corrosion	13 Each
3318	Reinforced Concrete Bridge Railing	Exposed Rebar	6 Feet
3318	Reinforced Concrete Bridge Railing	Delamination/Spall	362 Feet
2816	Wearing Surface	Patched Area/Pothole (Wearing Surface)	79 Square Feet
2816	Wearing Surface	Crack (Wearing Surface)	601 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	56 Square Feet

Element Structure Maintenance Quantities

Structure Number: **110144** Inspection Date **08/10/2023**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Beam	3314	Maintenance Steel Superstructure Components	63	910	13.000	50.000	45.000	802.000
Beam	3342	Clean and Paint Steel	16	8890	16.000	0.000	0.000	8874.000
Bearing Device	3334	Bridge Bearing	16	20	0.000	16.000	4.000	0.000
Bearing Device	3334	Bridge Bearing	13	20	0.000	13.000	7.000	0.000
Bearing Device	3342	Clean and Paint Steel	20	20	19.000	1.000	0.000	0.000
Bearing Device	3342	Clean and Paint Steel	20	20	15.000	5.000	0.000	0.000
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	368	368	0.000	12.000	356.000	0.000
Deck	3326	Maintenance of Concrete Deck	2769	6261	0.000	2.000	2752.000	3507.000
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	52	81	52.000	0.000	6.000	23.000
Wearing Surfaces	2816	Asphalt Surface Repair	680	4741	0.000	680.000	0.000	4061.000
Abutments	3350	Maintenance of Concrete Wings and Wall	2	72	0.000	2.000	15.000	55.000
Caps	3348	Maintenance of Concrete Substructure	53	160	0.000	47.000	57.000	56.000
Footing	3348	Maintenance of Concrete Substructure	0	18	0.000	0.000	0.000	18.000
Piles and Columns	3344	Maintenance To Timber Substructure	0	14	0.000	0.000	0.000	14.000
Piles and Columns	3348	Maintenance of Concrete Substructure	13	9	0.000	8.000	1.000	0.000

Priority Actions Request

Structure Number 110144

Span1

3314 **Beam 2** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 2: (PAR) at bent 1, painted over section loss/pitting: web adjacent to end diaphragm (5/16 inch average remaining x 10 inch x 3.5 inch) with corrosion reactivating

3314 **Beam 3** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 3: (PAR) at bent 1, painted over section loss/pitting: web (1/4 inch average remaining x 11 inch x 3.5 inch)

3314 **Beam 5** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 5: (PAR) at bent 1, painted over section loss/pitting: upper web (7/16 inch average remaining x 11 inch x 8 inch); lower web (1/2 inch average remaining x 8 foot x 2 inch)

Span2

3326 **Deck** Reinforced Concrete Deck

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	2	Span 2 Deck: (PAR) 2 FOOT X 1 FOOT X 3/4 INCH DEEP SPALL WITH EXPOSED REBAR BAY 1 ADJACENT TO BEAM 1 15 FOOT FROM BENT 2
2	Exposed Rebar	6	Span 2 Deck: (PAR) bays 1 and 4 end diaphragm over bent 2, spalls/delaminations (3 foot x 8 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)

3314 **Beam 2** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 2 Beam 2: (PAR) at bent 1, painted over section loss/pitting: web adjacent to end diaphragm (3/8 inch average remaining x 9 inch x 2 inch)
2	Corrosion	1	Span 2 Beam 2: (PAR) at bent 2, painted over section loss/pitting: bottom flange (0.73 inch average remaining x 3 inch); web adjacent to end diaphragm (3/8 inch average remaining x 10 inch x 6 inch)

3314 **Beam 3** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 2 Beam 3: (PAR) at bent 1, painted over section loss/pitting: web adjacent to end diaphragm (3/8 inch average remaining x 2 inch x 8 inch); bottom flange, pitting (up to 1/16 inch deep x 2 foot); web, pitting (up to 1/16 inch deep x 2 foot x up to full height)

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

Priority Actions Request

Structure Number 110144

3314 **Beam 5** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	3	Span 2 Beam 5: (PAR) at bent 1, painted over section loss/pitting: bottom flange (0.72 inch average remaining x 2.5 foot); web (7/16 inch average remaining x 2.5 foot x 18 inch) with corrosion reactivating

2816 **Wearing Surface** Asphalt Wearing Surface

Priority Level	Defect Type	Quantity	Defect Description
2	Patched Area/Pothole (Wearing Surface)	26	Span 2 Wearing Surface: (PAR) over bent 1, broken asphalt (full roadway width x 8 inch) with potholes (up to 32 inch x 5 inch x full depth)
2	Patched Area/Pothole (Wearing Surface)	26	Span 2 Wearing Surface: (PAR) over bent 2, broken asphalt (full roadway width x 8 inch) with potholes (up to 10 foot x 9 inch x full depth)

Span3

3326 **Deck** Reinforced Concrete Deck

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	6	Span 3 Deck: (PAR) bay 4 end diaphragm over bent 2, spalls/delamination (full width x 1 foot x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)

3314 **Beam 2** Plate Girder

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

3314 **Beam 4** Plate Girder

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

2816 **Wearing Surface** Asphalt Wearing Surface

Priority Level	Defect Type	Quantity	Defect Description
2	Patched Area/Pothole (Wearing Surface)	27	Span 3 Wearing Surface: (PAR) over bent 3, broken asphalt (full roadway width x 8 inch) with potholes (up to 5 foot x 5 inch x full depth)

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

Priority Actions Request

Structure Number 110144

Span4

3326 **Deck** Reinforced Concrete Deck

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	3	Span 4 Deck: (PAR) bay 2 end diaphragm over bent 2, spalls/delaminations (3 foot x 12 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)

3314 **Beam 3** Plate Girder

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

Bent 1

3348 **Cap 1** Reinforced Concrete Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	15	Bent 1 Cap 1: (PAR) south face between bays 2-4, multiple spalls/delaminations (5 foot x 16 inch x inch deep) some with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/16 inch) with rust stains

3348 **Pile 1** Reinforced Concrete Column

Priority Level	Defect Type	Quantity	Defect Description
2	Efflorescence/Rust Staining	1	Bent 1 Pile 1: (PAR) NORTHWEST CORNER HAS A FAILED PATCHED AREA THAT IS CRACKED (UP TO 1/16 INCH) WITH RUST STAINS AND DELAMINATED. AREA ON NORTH FACE IS: 12 INCH WIDE, AREA ON WEST FACE IS: 10 INCH WIDE X 9 FOOT HIGH.

3348 **Pile 3** Reinforced Concrete Column

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	1	Bent 1 Pile 3: (PAR) north face, spall/delamination (2 foot x full height x 2 inch deep) with exposed rusted rebar (approximately 25 percent loss)

Bent 2

3348 **Cap 1** Reinforced Concrete Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
2	Efflorescence/Rust Staining	7	Bent 2 Cap 1: (PAR) UP TO 7 FOOT X 12 INCH DELAMINATIONS WITH HORIZONTAL CRACKS UP TO 1/16 INCH WITH RUST STAINING, SOUTH AND NORTH FACES, UNDER BAY 3.
2	Exposed Rebar	1	Bent 2 Cap 1: (PAR) BENT 2 CAP WEST FACE BOTTOM CORNER HAS A SPALL AND DELAMINATED AREA (2.5 FOOT X 1 FOOT X 1 INCH DEEP) WITH REBAR EXPOSED (APPROXIMATELY 25 PERCENT LOSS) AND MAP CRACKS (UP TO

Priority Actions Request

Structure Number **110144**

1/16 INCH) WITH RUST STAINS

3348 **Pile 2** Reinforced Concrete Column

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	1	Bent 2 Pile 2: (PAR) west face at bottom, spall (2 foot x 8 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)

3348 **Pile 3** Reinforced Concrete Column

Priority Level	Defect Type	Quantity	Defect Description
2	Efflorescence/Rust	1	Bent 2 Pile 3: (PAR) along column, vertical cracks (up to 1/8 inch x 6.5 foot) some with efflorescence and rust stains and map cracks (hairline) at random

Bent 3

3348 **Cap 1** Reinforced Concrete Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
2	Efflorescence/Rust	22	Bent 3 Cap 1: (PAR) both faces and underside, multiple delaminations (15 foot x 18 inch) with cracks (up to 1/8 inch) some with rust stains
2	Exposed Rebar	1	Bent 3 Cap 1: (PAR) 16 INCH X FULL HEIGHT X 2 INCH DEEP SPALL WITH EXPOSED REINFORCING WITH APPROXIMATELY 25 PERCENT LOSS, WEST FACE, IN BEAM 4 PEDESTAL.
2	Exposed Rebar	1	Bent 3 Cap 1: (PAR) 6 INCH X FULL WIDTH X 12 INCH X 2 INCH DEEP SPALL WITH EXPOSED REBAR WITH APPROXIMATELY 25 PERCENT LOSS, WEST FACE, IN BEAM 3 PEDESTAL.

3348 **Pile 1** Reinforced Concrete Column

Priority Level	Defect Type	Quantity	Defect Description
2	Efflorescence/Rust	1	Bent 3 Pile 1: (PAR) WEST FACE HAS A AREA THAT IS CRACKED (UP TO 1/16 INCH) AND DELAMINATED WITH SOME RUST STAINS VISIBLE AREA IS: 16 INCH X 10 FOOT.

3348 **Pile 2** Reinforced Concrete Column

Priority Level	Defect Type	Quantity	Defect Description
2	Efflorescence/Rust	1	Bent 3 Pile 2: (PAR) east face below cap, delamination (full width x 5 foot) with cracks (up to 1/8 inch) with rust stains
2	Exposed Rebar	1	Bent 3 Pile 2: (PAR) west face at bottom, spall/delamination (3 foot x 21 inch x 1/2 inch) with exposed rusted rebar and cracks (up to 1/32 inch) with rust stains

3348 **Pile 3** Reinforced Concrete Column

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	1	Bent 3 Pile 3: (PAR) west face, spall/delamination (20 inch x full height x 2 inch

Priority Actions Request

Structure Number **110144**

deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch) some with efflorescence

Approach Guardrail and Barriers

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

Priority Level	Defect Type	Quantity	Defect Description
2		1	(PAR) northeast guardrail termination, impact damage
2		3	(PAR) northeast guardrail, 2nd, 4th and 6th timber posts, decay/section loss (up to full height x full width x full depth)
2		1	(PAR) northwest guardrail attachment, improper lap
2		1	(PAR) southeast guardrail attachment, improper lap
2		1	(PAR) southeast guardrail termination, impact damage
2		9	(PAR) southeast guardrail, timber posts 1-9, decay/section loss (up to full width x full height x full depth)
2		5	(PAR) southwest guardrail, timber posts 1-5, decay/section loss (up to full width x full height x full depth)

Element Condition and Maintenance Data

Structure Number: **110144** Inspection Date: **08/10/2023**

Span 1 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,213	813	400	0	0	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**12**	Cracking (RC and Other)	throughout underside of deck, transverse cracks (up to 1/64 inch x full width) and map cracks (hairline) at random	2	400	400	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	35	24	11	0	0	Feet
515	Steel Protective Coating	340	339	0	0	1	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**107**	Corrosion	at bent 1, painted over pitting: web (up to 1/8 inch deep x 11 foot x up to 16 inch) with corrosion reactivating	2	11		Feet
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 1 Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	35	34	0	0	1	Feet
515	Steel Protective Coating	340	339	0	0	1	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**107**	Corrosion	(PAR) at bent 1, painted over section loss/pitting: web adjacent to end diaphragm (5/16 inch average remaining x 10 inch x 3.5 inch) with corrosion reactivating	4	1	1	Feet
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	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	35	34	0	0	1	Feet
515	Steel Protective Coating	340	340	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 1, painted over section loss/pitting: web (1/4 inch average remaining x 11 inch x 3.5 inch)	4	1	1	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	35	34	0	1	0	Feet
515	Steel Protective Coating	340	339	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 1, corrosion with section loss/pitting: web adjacent to end diaphragm (7/16 inch average remaining x 10 inch x 2 inch)	3	1	1	Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	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	35	34	0	0	1	Feet
515	Steel Protective Coating	340	339	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 1, painted over section loss/pitting: upper web (7/16 inch average remaining x 11 inch x 8 inch); lower web (1/2 inch average remaining x 8 foot x 2 inch) with corrosion reactivating	4	1	1	Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	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	36	0	36	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **331**	Delamination/Spall	along the length of the rail and sidewalk, scaling with secure agreggate at random	2	32	32	Feet
☑ **331**	Delamination/Spall	UP TO 6 INCH X 3 INCH X 1/4 INCH DEEP SPALL WITH EXPOSED REBAR AT RANDOM THROUGHOUT	2	4	4	Feet

General Comments

Span 1 — Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	36	0	36	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Delamination/Spall	along the length of the rail and sidewalk, scaling with secure agreggate at random	2	31	31	Feet
☑ **331**	Delamination/Spall	UP TO 6 INCH X 3 INCH X 1/4 INCH DEEP SPALL WITH EXPOSED REBAR AT RANDOM THROUGHOUT	2	5	5	Feet

General Comments

Span 1 — Near Bearing 1

Fixed Bearing

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

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

General Comments

Span 1 — Far Bearing 1

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	surface rust/rust scale	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	4	1	1	Square Feet

General Comments

Span 1 Near Bearing 2

Fixed Bearing

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

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

General Comments

Span 1 Far Bearing 2

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	surface rust/rust scale	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	4	1	1	Square Feet

General Comments

Span 1 Near Bearing 3

Fixed Bearing

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

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

General Comments

Span 1 Far Bearing 3

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	corrosion with section loss (less than 1/16 inch loss)	2	1		Each

☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet	

General Comments

Span 1 — Near Bearing 4

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	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)	surface rust	3	1	1	Square Feet

General Comments

Span 1 — Far Bearing 4

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	corrosion with section loss (up to 1/16 inch loss)	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 1 — Near Bearing 5

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	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	corrosion with section loss (up to 1/8 inch loss)	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	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 1/16 inch)	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 1 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	919	815	0	104	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **510**	Crack (Wearing Surface)	over end bent 1, transverse cracks (up to 1/8 inch x full roadway width) with edge spalling (2 foot x 6 inch x 1.5 inch deep)	3	26	26	Square Feet
☑ **510**	Crack (Wearing Surface)	throughout asphalt wearing surface, transverse and longitudinal cracks (up to 1/8 inch x 10 foot) at random	3	78	78	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	1,803	749	1,052	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **12**	Delamination/Spall	(PAR) 2 FOOT X 1 FOOT X 3/4 INCH DEEP SPALL WITH EXPOSED REBAR BAY 1 ADJACENT TO BEAM 1 15 FOOT FROM BENT 2	3	2	2	Square Feet
☑ **12**	Exposed Rebar	(PAR) bays 1 and 4 end diaphragm over bent 2, spalls/delaminations (3 foot x 8 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)	3		6	Square Feet
☑ **12**	Cracking (RC and Other)	SPAN 2 BOTTOM OF DECK HAS SCATTERED MAP CRACKING UP TO 1/64 INCH	2	1,000	1,000	Square Feet
☑ **12**	Delamination/Spall	MULTIPLE AREAS OF HONEYCOMBING IN BAYS 1 & 4 AT RANDOM THROUGHOUT.	2	50	50	Square Feet
☑ **12**	Delamination/Spall	SCATTERED POPOUTS IN BOTTOM DECK AT LEFT SIDE OF TOP FLANGE OF BEAM 1 UP TO 1 INCH DEEP	2	2	2	Square Feet

General Comments

Structure Number: **110144** Inspection Date: **08/10/2023**

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	53	29	3	21	0	Feet
515	Steel Protective Coating	516	512	0	0	4	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 2, painted over section loss/pitting: web adjacent to end diaphragm (1/2 inch average remaining x 16 inch x 13 inch); bottom flange, pitting (up to 1/16 inch deep x 16 inch) with corrosion reactivating	3	1	1	Feet
☑ **107**	Distortion	POINT OF IMPACT TO BEAM 1 AT 24 FOOT 8 INCH FROM BENT 1 FOR A LENGTH OF 15 FOOT. BEAM 1 IS SWEPT EASTWARD FOR 1 INCH FOR A LENGTH OF 20 FOOT. SCATTERED SCRAPES TO LEFT SIDE OF BOTTOM WEB AND SCATTERED SCRAPES TO BOTTOM FLANGE. INDENTION IN LEFT SIDE OF BOTTOM FLANGE AT 14 FOOT 7 INCH FROM INTERIOR. BENT 1, 2 INCH LONG X 1 INCH WIDE X 1/8 INCH DEEP. INDENTION IN LEFT SIDE OF BOTTOM FLANGE AT 20 FOOT 9 INCH FROM BENT 1, 2 INCH LONG X 1 INCH WIDE X 1/8 INCH DEEP.	3	20	20	Feet
☑ **107**	Corrosion	at bent 1, painted over pitting: web (up to 1/8 inch deep x 3 foot x up to 17 inch); bottom flange (up to 1/16 inch deep x 3 foot) with corrosion reactivating	2	3		Feet
☑ **107**	Distortion	(combined with other notes 2023) Previous impact to beam (beam sweeps 1 inch eastward over travel lanes)	1			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	4	4	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	53	46	5	0	2	Feet
515	Steel Protective Coating	516	516	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 1, painted over section loss/pitting: web adjacent to end diaphragm (3/8 inch average remaining x 9 inch x 2 inch)	4	1	1	Feet
☑ **107**	Corrosion	(PAR) at bent 2, painted over section loss/pitting: bottom flange (0.73 inch average remaining x 3 inch); web adjacent to end diaphragm (3/8 inch average remaining x 10 inch x 6 inch)	4	1	1	Feet
☑ **107**	Distortion	SCATTERED SCRAPES TO BOTTOM FLANGE THROUGHOUT BEAM 2	2	5		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	53	46	5	0	2	Feet
515	Steel Protective Coating	516	516	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 1, painted over section loss/pitting: web adjacent to end diaphragm (3/8 inch average remaining x 2 inch x 8 inch); bottom flange, pitting (up to 1/16 inch deep x 2 foot); web, pitting (up to 1/16 inch deep x 2 foot x up to full height)	4	2	2	Feet
☑ **107**	Damage	SCATTERED SCRAPES TO BOTTOM FLANGE AT RANDOM	2	5		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	53	46	5	2	0	Feet
515	Steel Protective Coating	516	515	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 1, painted over section loss/pitting: web adjacent end diaphragm (1/2 inch average remaining x 6 inch x 2 inch)	3	1	1	Feet
☑ **107**	Corrosion	at bent 2, painted over section loss/pitting: bottom flange (0.70 inch average remaining x 1.5 inch); web adjacent to end diaphragm (1/2 inch average remaining x 10 inch x 2 inch) with corrosion reactivating	3	1	1	Feet
☑ **107**	Distortion	SCATTERED SCRAPES TO LEFT SIDE OF WEB. SCATTERED SCRAPES TO BOTTOM FLANGE	2	5		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	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	53	35	5	10	3	Feet
515	Steel Protective Coating	516	513	0	0	3	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 1, painted over section loss/pitting: bottom flange (0.72 inch average remaining x 2.5 foot); web (7/16 inch average remaining x 2.5 foot x 18 inch) with corrosion reactivating	4	3	3	Feet

☑ **107**	Corrosion	at bent 2, painted over pitting: web (up to 1/8 inch deep x 10 foot x 24 inch); bottom flange, painted over section loss (0.70 inch average remaining x 10 inch); bottom flange 10 inch from bearing, painted over pitting (up to 1/16 inch pitting x 10 foot)	3	10	10	Feet
☑ **107**	Distortion	SCATTERED SCRAPES TO BOTTOM FLANGE	2	5		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	3	3	Square Feet

General Comments

Span 2 — Bent 1 Expansion Joint

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	27	15	0	0	12	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **301**	Seal Damage	at missing asphalt locations, seal deteriorated/torn/missing (up to full depth)	4	12	12	Feet
☑ **301**	Debris Impaction	at missing asphalt locations, debris accumulation (up to 32 inch) at random	2			Feet

General Comments

COVERED BY ASPHALT WEARING SURFACE.

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	0	53	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Delamination/Spall	along the length of the rail and sidewalk, scaling with secure agreggate at random	2	45	45	Feet
☑ **331**	Delamination/Spall	UP TO 12 INCH X 3 INCH X 1/2 INCH DEEP SPALL WITH EXPOSED REBAR AT RANDOM THROUGHOUT	2	8	8	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	0	53	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Delamination/Spall	along the length of the rail and sidewalk, scaling with secure agreggate at random	2	45	45	Feet
☑ **331**	Delamination/Spall	UP TO 12 INCH X 3 INCH X 1/2 INCH DEEP SPALL WITH EXPOSED REBAR AT RANDOM THROUGHOUT	2	8	8	Feet

General Comments

Span 2 — Near Bearing 1

Fixed Bearing

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

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

General Comments

Span 2 — Far Bearing 1

Movable Bearing

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

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**311**	Corrosion	corrosion with section loss (up to 1/16 inch loss)	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 2 — Near Bearing 2

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	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	corrosion with section loss (up to 1/16 inch loss)	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 2 — Far Bearing 2

Movable Bearing

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

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**311**	Corrosion	corrosion with section loss (up to 1/16 inch loss)	3	1	1	Each

☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet	

General Comments

Span 2 Near Bearing 3

Fixed Bearing

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

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**313**	Corrosion	corrosion with section loss (up to 1/16 inch loss)	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 2 Far Bearing 3

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	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 loss)	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 2 Near Bearing 4

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	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	corrosion with section loss (up to 1/16 inch loss)	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 2 — Far Bearing 4

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	corrosion with section loss (up to 3/16 inch deep)	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 2 — Near Bearing 5

Fixed Bearing

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

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

General Comments

Span 2 — Far Bearing 5

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	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 loss)	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 2 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,365	1,088	0	277	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **510**	Crack (Wearing Surface)	throughout asphalt wearing surface, transverse and longitudinal cracks (up to 1/8 inch x 10 foot) at random	3	225	225	Square Feet

☑ **510**	Patched Area/Pothole (Wearing Surface)	(PAR) over bent 1, broken asphalt (full roadway width x 8 inch) with potholes (up to 32 inch x 5 inch x full depth)		3	26	26	Square Feet
☑ **510**	Patched Area/Pothole (Wearing Surface)	(PAR) over bent 2, broken asphalt (full roadway width x 8 inch) with potholes (up to 10 foot x 9 inch x full depth)		3	26	26	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	1,803	603	1,200	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **12**	Exposed Rebar	(PAR) bay 4 end diaphragm over bent 2, spalls/delamination (full width x 1 foot x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)	3		6	Square Feet
☑ **12**	Cracking (RC and Other)	throughout underside of deck, transverse cracks (up to 1/64 inch x full width) and map cracks (hairline) at random	2	1,100	1,100	Square Feet
☑ **12**	Delamination/Spall	MULTIPLE AREAS OF HONEYCOMBING IN BAYS 1 & 4 AT RANDOM THROUGHOUT.	2	100	100	Square Feet

General Comments

Span 3 Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	53	50	0	3	0	Feet
515	Steel Protective Coating	516	514	0	0	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 2, painted over section loss/pitting: web adjacent to end diaphragm (1/2 inch average remaining x 16 inch x 13 inch); bottom flange, pitting (up to 1/16 inch deep x 16 inch) with corrosion reactivating	3	2	2	Feet
☑ **107**	Corrosion	at bent 3, painted over section loss/pitting: bottom flange (0.67 inch average remaining x 3 inch); web adjacent to end diaphragm, painted over pitting (up to 1/8 inch deep x 14 inch x 12 inch)	3	1	1	Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	2	2	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	53	51	1	0	1	Feet
515	Steel Protective Coating	516	515	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 2, painted over section loss/pitting: web adjacent to end diaphragm (3/8 inch average remaining x 9 inch x 2 inch)	4	1	1	Feet
☑ **107**	Corrosion	at bent 3, web adjacent to end diaphragm, rust scale (10 inch)	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale	4	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	53	51	0	2	0	Feet
515	Steel Protective Coating	516	516	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 2, painted over section loss/pitting: web adjacent to end diaphragm (9/16 inch average remaining x 9 inch x 1 inch)	3	1	1	Feet
☑ **107**	Corrosion	at bent 3, painted over section loss/pitting: web adjacent to end diaphragm (1/2 inch average remaining x 12 inch x 1 inch)	3	1	1	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	53	51	1	0	1	Feet
515	Steel Protective Coating	516	516	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 2, painted over section loss/pitting: web adjacent to end diaphragm (3/8 inch average remaining x 10 inch x 1 inch)	4	1	1	Feet
☑ **107**	Corrosion	at bent 3, painted over section loss/pitting: web adjacent to end diaphragm (1/2 inch average remaining x 10 inch x 2 inch)	2	1		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	53	42	1	10	0	Feet
515	Steel Protective Coating	516	516	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 3, painted over pitting/section loss: bottom flange (0.75 inch average remaining x 1 foot); bottom flange 1 foot from bearing, painted over pitting (up to 1/16 inch deep x 10 foot); web, painted over pitting (up to 1/8 inch deep x 10 foot x 12 inch)	3	10	10	Feet
☑ **107**	Corrosion	at bent 2, painted over section loss/pitting: web adjacent to end diaphragm (1/2 inch average remaining x 10 inch x 4 inch)	2	1		Feet

General Comments

Span 3 — Bent 2 Expansion Joint

Standard Joint

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **301**	Seal Damage	at missing asphalt locations, seal deteriorated/torn/missing (up to full depth)	4	27	27	Feet
☑ **301**	Debris Impaction	at missing asphalt locations, debris accumulation (up to full length)	2			Feet

General Comments

COVERED BY ASPHALT WEARING SURFACE.

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	0	49	4	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Delamination/Spall	UP TO 18 INCH X 3 INCH X 1/2 INCH SPALL WITH EXPOSED REBAR AT RANDOM THROUGHOUT	3	4	4	Feet
☑ **331**	Delamination/Spall	along the length of the rail and sidewalk, scaling with secure agreggate at random	2	49	49	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	0	53	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **331**	Delamination/Spall	along the length of the rail and sidewalk, scaling with secure agreggate at random	2	45	45	Feet
☑ **331**	Delamination/Spall	UP TO 6 INCH X 3 INCH X 1/4 INCH DEEP SPALL WITH EXPOSED REBAR AT RANDOM THROUGHOUT	2	8	8	Feet

General Comments

Span 3 — Near Bearing 1

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	rust scale	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale	4	1	1	Square Feet

General Comments

Span 3 — Far Bearing 1

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	corrosion with section loss (up to 1/16 inch loss)	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 3 — Near Bearing 2

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	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	corrosion with section loss (up to 1/16 inch loss)	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 3 — Far Bearing 2

Movable Bearing

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

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

General Comments

Span 3 — Near Bearing 3

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	corrosion with section loss (up to 1/16 inch loss)	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 3 — Far Bearing 3

Movable Bearing

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

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

General Comments

Span 3 — Near Bearing 4

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	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	corrosion with section loss (up to 1/8 inch loss)	3	1	1	Each

☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet	

General Comments

Span 3 Far Bearing 4

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	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)	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 3 Near Bearing 5

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	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	corrosion with section loss (up to 1/16 inch loss)	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 3 Far Bearing 5

Movable Bearing

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

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

General Comments

Span 3 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,365	1,213	0	152	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **510**	Crack (Wearing Surface)	throughout asphalt wearing surface, transverse and longitudinal cracks (up to 1/8 inch x 10 foot) at random	3	125	125	Square Feet
☑ **510**	Patched Area/Pothole (Wearing Surface)	(PAR) over bent 3, broken asphalt (full roadway width x 8 inch) with potholes (up to 5 foot x 5 inch x full depth)	3	27	27	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	1,442	1,342	100	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **12**	Exposed Rebar	(PAR) bay 2 end diaphragm over bent 2, spalls/delaminations (3 foot x 12 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)	3		3	Square Feet
☑ **12**	Cracking (RC and Other)	throughout underside of deck, multiple areas of hairline map cracking	2	100	100	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	39	2	0	0	Feet
515	Steel Protective Coating	406	406	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 3, painted over pitting: web (up to 1/8 inch deep x 2 foot x 12 inch); bottom flange (up to 1/16 inch deep x 2 foot)	2	2		Feet
☑ **107**	Corrosion	(not found 2023) web at far end East face, arrested metal loss, up to 10 inch high x 12 inch long, average remaining 1/2 inch	1			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	406	405	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 3, web adjacent to end diaphragm, rust scale (10 inch)	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale	4	1	1	Square Feet

General Comments

Span 4 Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	41	40	0	0	1	Feet
515	Steel Protective Coating	406	406	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 3, painted over section loss/pitting: web adjacent to end diaphragm (5/16 inch average remaining x 10 inch x 2 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	0	1	0	Feet
515	Steel Protective Coating	406	406	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 3, painted over section loss/pitting: web adjacent to end diaphragm (7/16 inch average remaining x 12 inch x 1 inch)	3	1	1	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	36	5	0	0	Feet
515	Steel Protective Coating	406	406	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **107**	Corrosion	at bent 3, painted over pitting: bottom flange (up to 1/8 inch deep x 3 foot); web (up to 1/8 inch deep x 5 foot x 15 inch)		2	5		Feet

General Comments

Span 4 — Bent 3 Expansion Joint

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	27	8	6	0	13	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **301**	Seal Damage	at missing asphalt locations, seal deteriorated/torn/missing (up to 5 foot)	4	13	13	Feet
☑ **301**	Debris Impaction	at missing asphalt locations, debris accumulation (up to 5 foot)	2	6		Feet

General Comments

COVERED BY ASPHALT WEARING SURFACE.

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	0	42	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Delamination/Spall	along the length of the rail and sidewalk, scaling with secure agreggate at random	2	36	36	Feet
☑ **331**	Exposed Rebar	UP TO 6 INCH X 3 INCH X 1/4 INCH SPALL WITH EXPOSED REBAR AT RANDOM THROUGHOUT	2	6	6	Feet

General Comments

Span 4 — Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	42	0	34	8	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Delamination/Spall	UP TO 18 INCH X 3 INCH X 1/2 INCH DEEP SPALL WITH EXPOSED REBAR AT RANDOM THROUGHOUT	3	8	8	Feet
☑ **331**	Delamination/Spall	along the length of the rail and sidewalk, scaling with secure agreggate at random	2	34	34	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	corrosion with section loss (up to 1/8 inch loss)	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 4 — Far Bearing 1

Fixed Bearing

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

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

General Comments

Span 4 — Far Bearing 2

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	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)	surface rust	3	1	1	Square Feet

General Comments

Span 4 — Near Bearing 3

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	corrosion with section loss (up to 1/16 inch loss)	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	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	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	surface rust/rust scale	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	4	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	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 1/16 inch loss)	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 4 — Far Bearing 4

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	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)	surface rust	3	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	corrosion with section loss (up to 1/8 inch)	3	1	1	Each
☑	515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 4 — Far Bearing 5

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	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	corrosion with section loss (up to 1/8 inch loss)	3	1	1	Each
☑	515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 4 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,092	945	0	147	0	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	510	Crack (Wearing Surface)	over end bent 2, transverse cracks (up to 1/8 inch x full roadway width) with edge spalling (12 inch x 4 inch x 1 inch deep)	3	27	27	Square Feet

☑ **510**	Crack (Wearing Surface)	throughout asphalt wearing surface, transverse and longitudinal cracks (up to 1/8 inch x 10 foot) at random	3	120	120	Square Feet

General Comments

End Bent 1 — Abutment

Reinforced Concrete Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinforced Concrete Abutment	36	29	5	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **215**	Cracking (RC and Other)	at beams 1 and 3 penetrations, diagonal cracks, up to 12 inch x 1/16 inch	3	2	2	Feet
☑ **215**	Cracking (RC and Other)	along the length of the abutment, vertical cracks (up to 1/64 inch x full height) at random	2	5		Feet

General Comments

End Bent 1 — Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	35	29	6	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Cracking (RC and Other)	along length, multiple vertical cracks, up to 10 inch x 1/32 inch	2	6		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	30	0	15	15	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Exposed Rebar	(PAR) south face between bays 2-4, multiple spalls/delaminations (5 foot x 16 inch x 1 inch deep) some with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/16 inch) with rust stains	3	15	15	Feet
☑ **234**	Patched Area	beam 3 cap step up, north face, failed patch (3 foot x 8 inch x 1 inch deep)	3		3	Feet
☑ **234**	Cracking (RC and Other)	CAP HAS SCATTERED VERTICAL CRACKS UP TO 1/32 INCH X FULL HEIGHT, LONGITUDINAL CRACKS UP TO 1/32 INCH X 1 FOOT AND HAIRLINE MAP CRACKS ON ALL FACES, AT RANDOM THROUGHOUT.	2	12		Feet
☑ **234**	Delamination/Spall	South face below beam 1, delamination, 22 inch x 13 inch	2	2	2	Feet
☑ **234**	Patched Area	8 INCH DIAMETER PATCH, IN WEST END OF CAP.	2	1		Feet

☑ **234**	Cracking (RC and Other)	(COMBINED WITH OTHER NOTES 2023) BENT 1 CAP NORTH FACE BELOW BEAM 3. FAILED PATCH WITH CRACKS, UP TO 1/16 INCH, AND RUST STAIN	1		Feet
☑ **234**	Delamination/Spall	(COMBINED WITH OTHER NOTES 2023) 6 INCH X 10 INCH X 1 INCH SPALL WITH EXPOSED REBAR, NORTH FACE, UNDER BAY 3.	1		Feet
☑ **234**	Delamination/Spall	(COMBINED WITH OTHER NOTES 2023) BENT 1 CAP BAY 2 NORTH FACE. HAS A CRACK/SPALL AND DELAMINATED AREA WITH REBAR VISIBLE. AREA IS: 11 INCH X 14 INCH X 3/4 INCH DEEP.	1		Feet
☑ **234**	Patched Area	(COMBINED WITH OTHER NOTES 2023) BENT 1 CAP NORTH FACE HAS SCATTERED PATCHED AREAS WITH SOME MAP CRACKING AND RUST STAINS. PATCHED APPEAR TO BE SOUND	1		Feet

General Comments

Bent 1 — Pile 1

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Cracking (RC and Other)	below cap, all corners, delaminations (9 inch x 4 foot) with cracks (up to 1/8 inch); along column, map cracks (hairline) and vertical cracks (up to 1/32 x full height) at random	3		1	Each
☑ **205**	Efflorescence/Rust Staining	(PAR) NORTHWEST CORNER HAS A FAILED PATCHED AREA THAT IS CRACKED (UP TO 1/16 INCH) WITH RUST STAINS AND DELAMINATED. AREA ON NORTH FACE IS: 12 INCH WIDE, AREA ON WEST FACE IS: 10 INCH WIDE X 9 FOOT HIGH.	3	1	1	Each

General Comments

Bent 1 — Pile 2

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Cracking (RC and Other)	below cap, all corners, delaminations (1 foot x 3 foot) with cracks (up to 1/8 inch)	3	1	1	Each

General Comments

Bent 1 — Pile 3

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **205**	Cracking (RC and Other)	west face, delamination (1 foot x 6.5 foot) with cracks (up to 1/8 inch)	3		1	Each	
☑ **205**	Exposed Rebar	(PAR) north face, spall/delamination (2 foot x full height x 2 inch deep) with exposed rusted rebar (approximately 25 percent loss)	3	1	1	Each	
☑ **205**	Cracking (RC and Other)	UP TO 4 FOOT X 1/32 INCH VERTICAL CRACKS, AT RANDOM THROUGHOUT.	2			Each	

General Comments

Bent 2 Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	30	7	15	8	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Efflorescence/Rust Staining	(PAR) UP TO 7 FOOT X 12 INCH DELAMINATIONS WITH HORIZONTAL CRACKS UP TO 1/16 INCH WITH RUST STAINING, SOUTH AND NORTH FACES, UNDER BAY 3.	3	7	7	Feet
☑ **234**	Exposed Rebar	(PAR) BENT 2 CAP WEST FACE BOTTOM CORNER HAS A SPALL AND DELAMINATED AREA (2.5 FOOT X 1 FOOT X 1 INCH DEEP) WITH REBAR EXPOSED (APPROXIMATELY 25 PERCENT LOSS) AND MAP CRACKS (UP TO 1/16 INCH) WITH RUST STAINS	3	1	1	Feet
☑ **234**	Cracking (RC and Other)	along the length of the cap, vertical cracks (up to 1/32 inch x full height) some extending into bottom face (full width) and map cracks (hairline) at random	2	15		Feet

General Comments

Bent 2 Pile 1

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Cracking (RC and Other)	west face, map cracks (hairline) at random	2	1		Each

General Comments

Bent 2 Pile 2

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Cracking (RC and Other)	northwest and southwest corners below cap, (3) delamination (4.5 foot x 1 foot) with cracks (up to 1/16 inch)	3		1	Each

☑ **205**	Exposed Rebar	(PAR) west face at bottom, spall (2 foot x 8 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)	3	1	1	Each	
☑ **205**	Delamination/Spall	East face below cap, delamination, 32 inch x 11 inch	2		1	Each	

General Comments

Bent 2 — Pile 3

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Efflorescence/Rust Staining	(PAR) along column, vertical cracks (up to 1/8 inch x 6.5 foot) some with efflorescence and rust stains and map cracks (hairline) at random	3	1	1	Each

General Comments

End Bent 2 — Abutment

Reinforced Concrete Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinforced Concrete Abutment	36	26	10	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **215**	Cracking (RC and Other)	END BENT 2 ABUTMENT THROUGHOUT ALL BAYS, VERTICAL CRACKS, UP TO 2 FOOT X 1/64 INCH	2	10		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	35	20	15	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Cracking (RC and Other)	END BENT 2 CAP HAS SCATTERED CRACKS THROUGHOUT ALL BAYS, UP TO TO FULL HEIGHT X 1/32 INCH	2	15		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	30	0	6	24	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **234**	Efflorescence/Rust Staining	(PAR) both faces and underside, multiple delaminations (15 foot x 18 inch) with cracks (up to 1/8 inch) some with rust stains	3	22	22	Feet
☑ **234**	Exposed Rebar	(PAR) 16 INCH X FULL HEIGHT X 2 INCH DEEP SPALL WITH EXPOSED REINFORCING WITH APPROXIMATELY 25 PERCENT LOSS, WEST FACE, IN BEAM 4 PEDESTAL.	3	1	1	Feet
☑ **234**	Exposed Rebar	(PAR) 6 INCH X FULL WIDTH X 12 INCH X 2 INCH DEEP SPALL WITH EXPOSED REBAR WITH APPROXIMATELY 25 PERCENT LOSS, WEST FACE, IN BEAM 3 PEDESTAL.	3	1	1	Feet
☑ **234**	Cracking (RC and Other)	along the length of the cap, vertical cracks (up to 1/32 inch x full height) and map cracks (hairline) at random	2	5		Feet
☑ **234**	Exposed Rebar	5 INCH DIAMETER X 1/2 INCH SPALL WITH EXPOSED REBAR NORTH FACE UNDER BEAM 2	2	1	1	Feet

General Comments

Bent 3 Pile 1

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Efflorescence/Rust Staining	(PAR) WEST FACE HAS AN AREA THAT IS CRACKED (UP TO 1/16 INCH) AND DELAMINATED WITH SOME RUST STAINS VISIBLE AREA IS: 16 INCH X 10 FOOT.	3	1	1	Each
☑ **205**	Cracking (RC and Other)	along column, vertical cracks (up to 1/32 inch x full height) and map cracks (hairline)	2			Each

General Comments

Bent 3 Pile 2

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Efflorescence/Rust Staining	(PAR) east face below cap, delamination (full width x 5 foot) with cracks (up to 1/8 inch) with rust stains	3	1	1	Each
☑ **205**	Efflorescence/Rust Staining	(PAR) west face at bottom, spall/delamination (3 foot x 21 inch x 1/2 inch) with exposed rusted rebar and cracks (up to 1/32 inch) with rust stains	3		1	Each
☑ **205**	Cracking (RC and Other)	along column, vertical cracks (up to 1/32 inch x full height) and map cracks (hairline)	2			Each

General Comments

Bent 3 Pile 3

Reinforced Concrete Column

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

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**205**	Exposed Rebar	(PAR) west face, spall/delamination (20 inch x full height x 2 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch) some with effloresence	3	1	1	Each
☑	**205**	Cracking (RC and Other)	along column, vertical cracks (up to 1/32 inch x full height) and map cracks (hairline)	2			Each

General Comments

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1213
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	35
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	35
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	35
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	35
Span 1	Beam 5	Plate Girder	Steel Open Girder/Beam	35
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	36
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	36
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	919
Span 1	Far Bearing 1	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 1	Near Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing 2	Movable Bearing	Movable Bearing	1
Span 1	Far Bearing 3	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 1	Near Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing 4	Movable Bearing	Movable Bearing	1
Span 1	Far Bearing 5	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing 5	Fixed Bearing	Fixed Bearing	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1803
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	53
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	53
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	53
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	53
Span 2	Beam 5	Plate Girder	Steel Open Girder/Beam	53
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	Bent 1 Expansion Joint	Standard Joint	Pourable Joint Seal	27
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1365
Span 2	Far Bearing 1	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 2	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing 3	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 4	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing 5	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 5	Fixed Bearing	Fixed Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1803
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	53
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	53
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	53
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	53
Span 3	Beam 5	Plate Girder	Steel Open Girder/Beam	53

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 3	Bent 2 Expansion Joint	Standard Joint	Pourable Joint Seal	27
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1365
Span 3	Far Bearing 1	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing 2	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing 3	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing 4	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing 5	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing 5	Fixed Bearing	Fixed Bearing	1
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1442
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	Bent 3 Expansion Joint	Standard Joint	Pourable Joint Seal	27
Span 4	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1092
Span 4	Near Bearing 1	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing 2	Movable Bearing	Movable Bearing	1
Span 4	Near Bearing 3	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing 4	Movable Bearing	Movable Bearing	1
Span 4	Near Bearing 5	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing 5	Fixed Bearing	Fixed Bearing	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	30
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	35
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	36
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	30
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	35

Elements Verfied

Location	Name	Component	Element Name	Amount
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	36
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	30
Bent 3	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 110144 **Inspection Date:** 08/10/2023

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	**6**
Item 59: Superstructure	0 - 9 , N	**5**
Item 60: Substructure	0 - 9 , N	**5**
Item 61: Channel and Channel Protection	0 - 9 , N	**N**
Item 62: Culvert	0 - 9 , N	**N**
Item 71: Waterway Adequacy	0 - 9 , N	**N**
Item 72: Approach Roadway Alignment	0 - 9 , N	**8**

Note:

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

For overall NBI coding grade, see cover sheet.

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

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	**P**	**6261**	**3376**
Drainage System	G, F, P, or C	**P**	**0**	**3332**
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	**G**	**0**	**3352**
Scour	G, F, P, or C			
Wingwall	G, F, P, or C	**G**	**0**	**3350**
Field Scour Evaluation				
Drift	G, F, P, or C		**0**	**3366**
Fender System	G, F, P, or C		**0**	**3364**
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	**G**		
Superstructure Paint Code		**B**		

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

Inspection Information

Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	**N**
Priority Maintenance Request Submitted	YES/NO	**Y**
Inspection Time	Hours	**8**
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: 110144 **Inspection Date:** 08/10/2023

Item	Deck Debris	**Grade**	P	**Maint Code**	3376	**Qty.**	6261
Details	along both curblines, debris accumulation (up to 2 foot wide x full length) with vegetation growth; partially obstructing drainage						

Item	Drainage System	**Grade**	P	**Maint Code**	3332	**Qty.**	0
Details	see deck debris						

Item	General Comments and Misc Items	**Grade**		**Maint Code**		**Qty.**	0
Details	behind northwest wingwall, erosion hole (5 inch diameter x 2 foot deep)						

(PAR) northeast guardrail termination, impact damage

(PAR) northeast guardrail, 2nd, 4th and 6th timber posts, decay/section loss (up to full height x full width x full depth)

(PAR) southeast guardrail termination, impact damage

(PAR) southeast guardrail, timber posts 1-9, decay/section loss (up to full width x full height x full depth)

(PAR) southwest guardrail, timber posts 1-5, decay/section loss (up to full width x full height x full depth)

(PAR) northwest guardrail attachment, improper lap

(PAR) southeast guardrail attachment, improper lap

Span 4 Far Bearing 5: corrosion with section loss (up to 1/8 inch loss)

Span 4 Far Bearing 4: surface rust

End Bent 2 Cap 1: END BENT 2 CAP HAS SCATTERED CRACKS THROUGHOUT ALL BAYS, UP TO TO FULL HEIGHT X 1/32 INCH

End Bent 2 Abutment: END BENT 2 ABUTMENT THROUGHOUT ALL BAYS, VERTICAL CRACKS, UP TO 2 FOOT X 1/64 INCH

Span 4 Beam 1 - Far Bearing 1: corrosion with section loss (up to 1/8 inch loss)

Span 4 Beam 1: (not found 2023) web at far end East face, arrested metal loss, up to 10 inch high x 12 inch long, average remaining 1/2 inch

behind northwest wingwall, erosion hole (5 inch diameter x 2 foot deep)

(PAR) northeast guardrail termination, impact damage

(PAR) northeast guardrail, 2nd, 4th and 6th timber posts, decay/section loss (up to full height x full width x full depth)

(PAR) northeast guardrail, 2nd, 4th and 6th timber posts, decay/section loss (up to full height x full width x full depth)

(PAR) northeast guardrail, 2nd, 4th and 6th timber posts, decay/section loss (up to full height x full width x full depth)

(PAR) southeast guardrail termination, impact damage

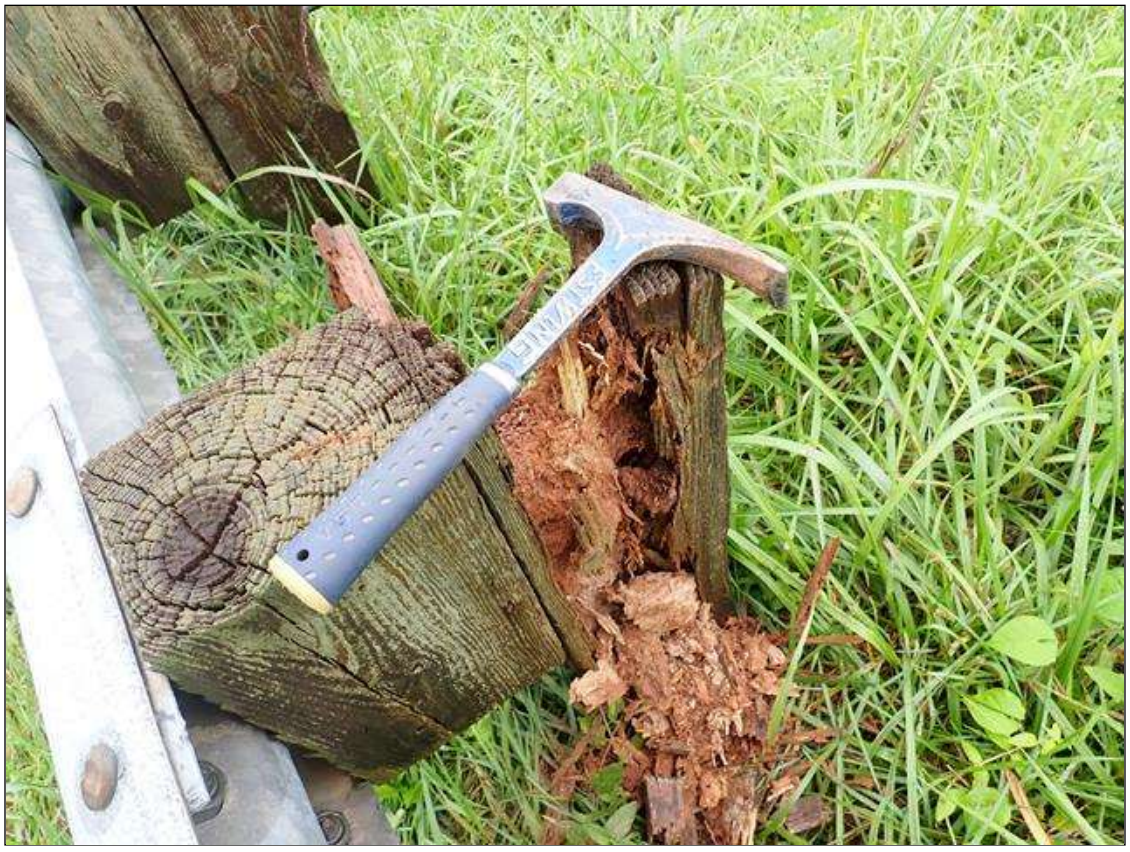
(PAR) southeast guardrail, timber posts 1-9, decay/section loss (up to full width x full height x full depth)

(PAR) southeast guardrail, timber posts 1-9, decay/section loss (up to full width x full height x full depth)

(PAR) southeast guardrail, timber posts 1-9, decay/section loss (up to full width x full height x full depth)

(PAR) southwest guardrail, timber posts 1-5, decay/section loss (up to full width x full height x full depth)

(PAR) southwest guardrail, timber posts 1-5, decay/section loss (up to full width x full height x full depth)



(PAR) southwest guardrail, timber posts 1-5, decay/section loss (up to full width x full height x full depth)

Span 1 Wearing Surface: throughout asphalt wearing surface, transverse and longitudinal cracks (up to 1/8 inch x 10 foot) at random

Span 1 Wearing Surface: over end bent 1, transverse cracks (up to 1/18 inch x full roadway width) with edge spalling (2 foot x 6 inch x 1.5 inch deep)

Span 1 Wearing Surface: over end bent 1, transverse cracks (up to 1/8 inch x full roadway width) with edge spalling (2 foot x 6 inch x 1.5 inch deep)

along both curblines, debris accumulation (up to 2 foot wide x full length) with vegetation growth; partially obstructing drainage

Span 1 Left Bridge Rail: UP TO 6 INCH X 3 INCH X 1/4 INCH DEEP SPALL WITH EXPOSED REBAR AT RANDOM THROUGHOUT

Span 1 Right Bridge Rail: UP TO 6 INCH X 3 INCH X 1/4 INCH DEEP SPALL WITH EXPOSED REBAR AT RANDOM THROUGHOUT

Span 1 Right Bridge Rail: along the length of the rail and sidewalk, scaling with secure agreggate at random

Span 2 Wearing Surface: throughout asphalt wearing surface, transverse and longitudinal cracks (up to 1/8 inch x 10 foot) at random

Span 2 Wearing Surface: (PAR) over bent 1, broken asphalt (full roadway width x 8 inch) with potholes (up to 32 inch x 5 inch x full depth)

Span 2 Wearing Surface: (PAR) over bent 1, broken asphalt (full roadway width x 8 inch) with potholes (up to 32 inch x 5 inch x full depth)

Span 2 Wearing Surface: (PAR) over bent 2, broken asphalt (full roadway width x 8 inch) with potholes (up to 10 foot x 9 inch x full depth)

Span 2 Wearing Surface: (PAR) over bent 2, broken asphalt (full roadway width x 8 inch) with potholes (up to 10 foot x 9 inch x full depth)

Span 2 Right Bridge Rail: UP TO 12 INCH X 3 INCH X 1/2 INCH DEEP SPALL WITH EXPOSED REBAR AT RANDOM THROUGHOUT

Span 2 Bent 1 Expansion Joint: at missing asphalt locations, seal deteriorated/torn/missing (up to full depth)

Span 2 Bent 1 Expansion Joint: at missing asphalt locations, seal deteriorated/torn/missing (up to full depth)

Span 2 Bent 1 Expansion Joint: at missing asphalt locations, debris accumulation (up to 32 inch) at random

Span 3 Bent 2 Expansion Joint : at missing asphalt locations, seal deteriorated/torn/missing (up to full depth)

Span 3 Bent 2 Expansion Joint : at missing asphalt locations, debris accumulation (up to full length)

Span 3 Wearing Surface: (PAR) over bent 3, broken asphalt (full roadway width x 8 inch) with potholes (up to 5 foot x 5 inch x full depth)

Span 3 Wearing Surface: (PAR) over bent 3, broken asphalt (full roadway width x 8 inch) with potholes (up to 5 foot x 5 inch x full depth)

Span 4 Bent 3 Expansion Joint : at missing asphalt locations, seal deteriorated/torn/missing (up to 5 foot)

Span 4 Right Bridge Rail: UP TO 18 INCH X 3 INCH X 1/2 INCH DEEP SPALL WITH EXPOSED REBAR AT RANDOM THROUGHOUT

Span 4 Wearing Surface: over end bent 2, transverse cracks (up to 1/8 inch x full roadway width) with edge spalling (12 inch x 4 inch x 1 inch deep)

Span 1 Near Bearing 5: corrosion with section loss (up to 1/8 inch loss)

End Bent 1 Abutment: along the length of the abutment, vertical cracks (up to 1/64 inch x full height) at random

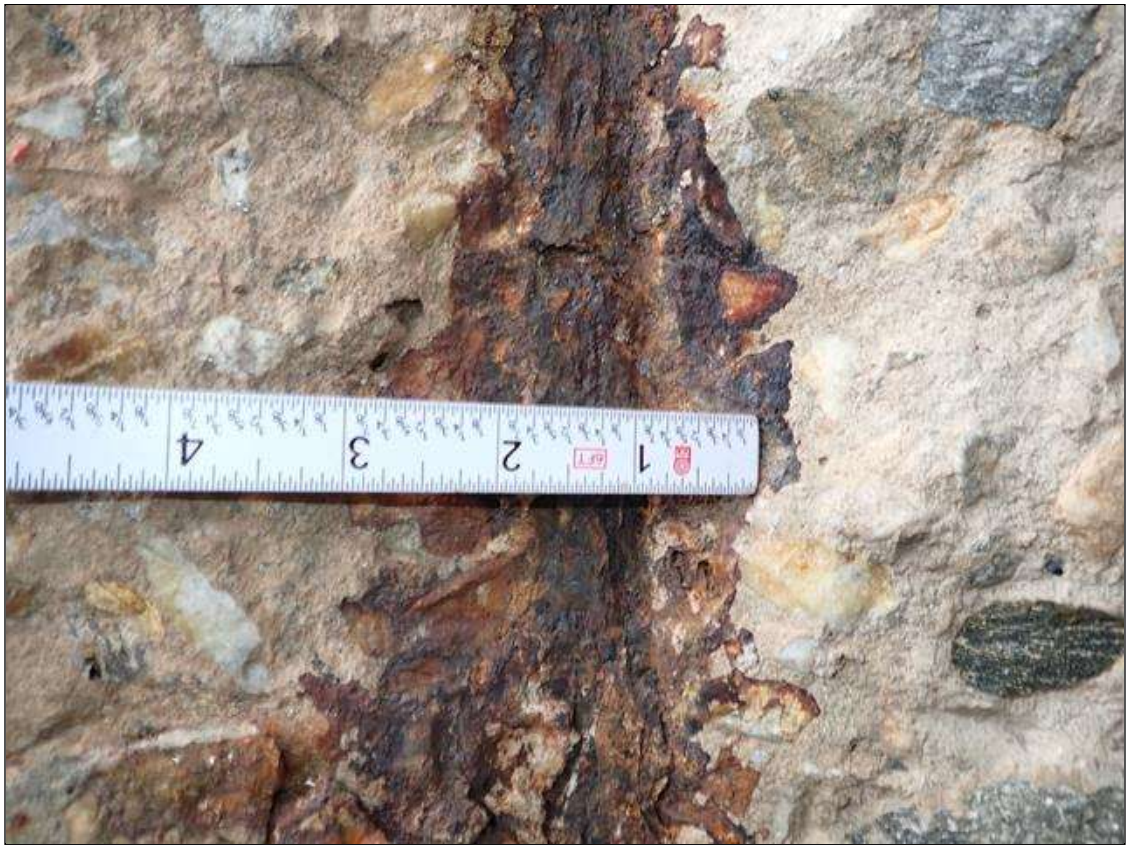
End Bent 1 Abutment: at beams 1 and 3 penetrations, diagonal cracks, up to 12 inch x 1/16 inch

Span 2 Beam 5: (PAR) at bent 1, painted over section loss/pitting: bottom flange (0.72 inch average remaining x 2.5 foot); web (7/16 inch average remaining x 2.5 foot x 18 inch) with corrosion reactivating

Span 1 Beam 5: (PAR) at bent 1, painted over section loss/pitting: upper web (7/16 inch average remaining x 11 inch x 8 inch); lower web (1/2 inch average remaining x 8 foot x 2 inch) with corrosion reactivating

Bent 1 Cap 1: (PAR) south face between bays 2-4, multiple spalls/delaminations (5 foot x 16 inch x 1 inch deep) some with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/16 inch) with rust stains

Bent 1 Cap 1: (PAR) south face between bays 2-4, multiple spalls/delaminations (5 foot x 16 inch x 1 inch deep) some with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/16 inch) with rust stains



Bent 1 Pile 3: (PAR) north face, spall/delamination (2 foot x full height x 2 inch deep) with exposed rusted rebar (approximately 25 percent loss)

Bent 1 Pile 3: (PAR) north face, spall/delamination (2 foot x full height x 2 inch deep) with exposed rusted rebar (approximately 25 percent loss)

Bent 1 Pile 3: west face, delamination (1 foot x 6.5 foot) with cracks (up to 1/8 inch)

Bent 1 Pile 2: below cap, all corners, delaminations (1 foot x 3 foot) with cracks (up to 1/8 inch)

Bent 1 Pile 1: (PAR) NORTHWEST CORNER HAS A FAILED PATCHED AREA THAT IS CRACKED (UP TO 1/16 INCH) WITH RUST STAINS AND DELAMINATED. AREA ON NORTH FACE IS: 12 INCH WIDE, AREA ON WEST FACE IS: 10 INCH WIDE X 9 FOOT HIGH.

Bent 1 Pile 1: (PAR) NORTHWEST CORNER HAS A FAILED PATCHED AREA THAT IS CRACKED (UP TO 1/16 INCH) WITH RUST STAINS AND DELAMINATED. AREA ON NORTH FACE IS: 12 INCH WIDE, AREA ON WEST FACE IS: 10 INCH WIDE X 9 FOOT HIGH.

Bent 1 Pile 1: below cap, all corners, delaminations (9 inch x 4 foot) with cracks (up to 1/8 inch); along column, map cracks (hairline) and vertical cracks (up to 1/32 x full height) at random

Bent 1 Pile 1: below cap, all corners, delaminations (9 inch x 4 foot) with cracks (up to 1/8 inch); along column, map cracks (hairline) and vertical cracks (up to 1/32 x full height) at random

Bent 1 Cap 1: 8 INCH DIAMETER PATCH, IN WEST END OF CAP.

Span 2 Beam 4: at bent 1, painted over section loss/pitting: web adjacent end diaphragm (1/2 inch average remaining x 6 inch x 2 inch)

Span 2 Near Bearing 4: corrosion with section loss (up to 1/16 inch loss)

Span 1 Beam 4: at bent 1, corrosion with section loss/pitting: web adjacent to end diaphragm (7/16 inch average remaining x 10 inch x 2 inch)

Span 2 Beam 3: (PAR) at bent 1, painted over section loss/pitting: web adjacent to end diaphragm (3/8 inch average remaining x 2 inch x 8 inch); bottom flange, pitting (up to 1/16 inch deep x 2 foot); web, pitting (up to 1/16 inch deep x 2 foot x up to full height)

Span 1 Beam 3: (PAR) at bent 1, painted over section loss/pitting: web (1/4 inch average remaining x 11 inch x 3.5 inch)

Bent 1 Cap 1: beam 3 cap step up, north face, failed patch (3 foot x 8 inch x 1 inch deep)

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

Span 2 Near Bearing 2: corrosion with section loss (up to 1/16 inch loss)

Span 1 Beam 2: (PAR) at bent 1, painted over section loss/pitting: web adjacent to end diaphragm (5/16 inch average remaining x 10 inch x 3.5 inch) with corrosion reactivating

Span 2 Beam 1: at bent 1, painted over pitting: web (up to 1/8 inch deep x 3 foot x up to 17 inch); bottom flange (up to 1/16 inch deep x 3 foot) with corrosion reactivating

Span 2 Near Bearing 1: corrosion with section loss (up to 1/8 inch loss)

Span 1 Beam 1: at bent 1, painted over pitting: web (up to 1/8 inch deep x 11 foot x up to 16 inch) with corrosion reactivating

Span 2 Beam 1: POINT OF IMPACT TO BEAM 1 AT 24 FOOT 8 INCH FROM BENT 1 FOR A LENGTH OF 15 FOOT. BEAM 1 IS SWEPT EASTWARD FOR 1 INCH FOR A LENGTH OF 20 FOOT. SCATTERED SCRAPES TO LEFT SIDE OF BOTTOM WEB AND SCATTERED SCRAPES TO BOTTOM FLANGE. INDENTION IN LEFT SIDE OF BOTTOM FLANGE AT 14 FOOT 7 INCH FROM INTERIOR. BENT 1, 2 INCH LONG X 1 INCH WIDE X 1/8 INCH DEEP. INDENTION IN LEFT SIDE OF BOTTOM FLANGE AT 20 FOOT 9 INCH FROM BENT 1, 2 INCH LONG X 1 INCH WIDE X 1/8 INCH DEEP.

Span 2 Beam 1: POINT OF IMPACT TO BEAM 1 AT 24 FOOT 8 INCH FROM BENT 1 FOR A LENGTH OF 15 FOOT. BEAM 1 IS SWEPT EASTWARD FOR 1 INCH FOR A LENGTH OF 20 FOOT. SCATTERED SCRAPES TO LEFT SIDE OF BOTTOM WEB AND SCATTERED SCRAPES TO BOTTOM FLANGE. INDENTION IN LEFT SIDE OF BOTTOM FLANGE AT 14 FOOT 7 INCH FROM INTERIOR. BENT 1, 2 INCH LONG X 1 INCH WIDE X 1/8 INCH DEEP. INDENTION IN LEFT SIDE OF BOTTOM FLANGE AT 20 FOOT 9 INCH FROM BENT 1, 2 INCH LONG X 1 INCH WIDE X 1/8 INCH DEEP.

Span 2 Beam 2: SCATTERED SCRAPES TO BOTTOM FLANGE THROUGHOUT BEAM 2

Span 2 Beam 3: SCATTERED SCRAPES TO BOTTOM FLANGE AT RANDOM

Span 2 Deck: SCATTERED POPOUTS IN BOTTOM DECK AT LEFT SIDE OF TOP FLANGE OF BEAM 1 UP TO 1 INCH DEEP

Span 2 Deck: MULTIPLE AREAS OF HONEYCOMBING IN BAYS 1 & 4 AT RANDOM THROUGHOUT.

Span 1 Deck: throughout underside of deck, transverse cracks (up to 1/64 inch x full width) and map cracks (hairline) at random

Span 2 Beam 1: at bent 2, painted over section loss/pitting: web adjacent to end diaphragm (1/2 inch average remaining x 16 inch x 13 inch); bottom flange, pitting (up to 1/16 inch deep x 16 inch) with corrosion reactivating

Span 2 Beam 1: at bent 2, painted over section loss/pitting: web adjacent to end diaphragm (1/2 inch average remaining x 16 inch x 13 inch); bottom flange, pitting (up to 1/16 inch deep x 16 inch) with corrosion reactivating

Span 3 Beam 1: at bent 2, painted over section loss/pitting: web adjacent to end diaphragm (1/2 inch average remaining x 16 inch x 13 inch); bottom flange, pitting (up to 1/16 inch deep x 16 inch) with corrosion reactivating

Span 2 Beam 2: (PAR) at bent 2, painted over section loss/pitting: bottom flange (0.73 inch average remaining x 3 inch); web adjacent to end diaphragm (3/8 inch average remaining x 10 inch x 6 inch)

Span 2 Beam 2: (PAR) at bent 2, painted over section loss/pitting: bottom flange (0.73 inch average remaining x 3 inch); web adjacent to end diaphragm (3/8 inch average remaining x 10 inch x 6 inch)

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

Span 3 Beam 3: at bent 2, painted over section loss/pitting: web adjacent to end diaphragm (9/16 inch average remaining x 9 inch x 1 inch)

Span 2 Beam 4: at bent 2, painted over section loss/pitting: bottom flange (0.70 inch average remaining x 1.5 inch); web adjacent to end diaphragm (1/2 inch average remaining x 10 inch x 2 inch) with corrosion reactivating

Span 2 Beam 4 - Far Bearing 4: corrosion with section loss (up to 3/16 inch deep)

Span 2 Beam 4: at bent 2, painted over section loss/pitting: bottom flange (0.70 inch average remaining x 1.5 inch); web adjacent to end diaphragm (1/2 inch average remaining x 10 inch x 2 inch) with corrosion reactivating

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

Span 2 Beam 5: at bent 2, painted over pitting: web (up to 1/8 inch deep x 10 foot x 24 inch); bottom flange, painted over section loss (0.70 inch average remaining x 10 inch); bottom flange 10 inch from bearing, painted over pitting (up to 1/16 inch pitting x 10 foot)

Span 2 Beam 5: at bent 2, painted over pitting: web (up to 1/8 inch deep x 10 foot x 24 inch); bottom flange, painted over section loss (0.70 inch average remaining x 10 inch); bottom flange 10 inch from bearing, painted over pitting (up to 1/16 inch pitting x 10 foot)

Span 2 Beam 5: at bent 2, painted over pitting: web (up to 1/8 inch deep x 10 foot x 24 inch); bottom flange, painted over section loss (0.70 inch average remaining x 10 inch); bottom flange 10 inch from bearing, painted over pitting (up to 1/16 inch pitting x 10 foot)

Span 3 Beam 5: at bent 2, painted over section loss/pitting: web adjacent to end diaphragm (1/2 inch average remaining x 10 inch x 4 inch)

Span 2 Deck: (PAR) bays 1 and 4 end diaphragm over bent 2, spalls/delaminations (3 foot x 8 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)

Bent 2 Cap 1: (PAR) UP TO 7 FOOT X 12 INCH DELAMINATIONS WITH HORIZONTAL CRACKS UP TO 1/16 INCH WITH RUST STAINING, SOUTH AND NORTH FACES, UNDER BAY 3.

Bent 2 Cap 1: (PAR) UP TO 7 FOOT X 12 INCH DELAMINATIONS WITH HORIZONTAL CRACKS UP TO 1/16 INCH WITH RUST STAINING, SOUTH AND NORTH FACES, UNDER BAY 3.

Bent 2 Cap 1: (PAR) BENT 2 CAP WEST FACE BOTTOM CORNER HAS A SPALL AND DELAMINATED AREA (2.5 FOOT X 1 FOOT X 1 INCH DEEP) WITH REBAR EXPOSED (APPROXIMATELY 25 PERCENT LOSS) AND MAP CRACKS (UP TO 1/16 INCH) WITH RUST STAINS

Bent 2 Cap 1: along the length of the cap, vertical cracks (up to 1/32 inch x full height) some extending into bottom face (full width) and map cracks (hairline) at random

Span 2 Deck: (PAR) 2 FOOT X 1 FOOT X 3/4 INCH DEEP SPALL WITH EXPOSED REBAR BAY 1 ADJACENT TO BEAM 1 15 FOOT FROM BENT 2

Bent 2 Pile 1: west face, map cracks (hairline) at random

Bent 2 Pile 2: (PAR) west face at bottom, spall (2 foot x 8 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)

Bent 2 Pile 2: northwest and southwest corners below cap, (3) delamination (4.5 foot x 1 foot) with cracks (up to 1/16 inch)

Bent 2 Pile 2: East face below cap, delamination, 32 inch x 11 inch

Bent 2 Pile 3: (PAR) along column, vertical cracks (up to 1/8 inch x 6.5 foot) some with efflorescence and rust stains and map cracks (hairline) at random

Bent 2 Pile 3: (PAR) along column, vertical cracks (up to 1/8 inch x 6.5 foot) some with efflorescence and rust stains and map cracks (hairline) at random

Span 3 Deck: MULTIPLE AREAS OF HONEYCOMBING IN BAYS 1 & 4 AT RANDOM THROUGHOUT.

Bent 3 Pile 3: (PAR) west face, spall/delamination (20 inch x full height x 2 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch) some with efflorescence

Bent 3 Pile 3: (PAR) west face, spall/delamination (20 inch x full height x 2 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch) some with efflorescence

Bent 3 Pile 3: along column, vertical cracks (up to 1/32 inch x full height) and map cracks (hairline)

Bent 3 Pile 2: (PAR) east face below cap, delamination (full width x 5 foot) with cracks (up to 1/8 inch) with rust stains

Bent 3 Pile 2: (PAR) west face at bottom, spall/delamination (3 foot x 21 inch x 1/2 inch) with exposed rusted rebar and cracks (up to 1/32 inch) with rust stains

Bent 3 Pile 1: (PAR) WEST FACE HAS AN AREA THAT IS CRACKED (UP TO 1/16 INCH) AND DELAMINATED WITH SOME RUST STAINS VISIBLE AREA IS: 16 INCH X 10 FOOT.

Span 3 Beam 5: at bent 3, painted over pitting/section loss: bottom flange (0.75 inch average remaining x 1 foot); bottom flange 1 foot from bearing, painted over pitting (up to 1/16 inch deep x 10 foot); web, painted over pitting (up to 1/8 inch deep x 10 foot x 12 inch)

Span 3 Beam 5: at bent 3, painted over pitting/section loss: bottom flange (0.75 inch average remaining x 1 foot); bottom flange 1 foot from bearing, painted over pitting (up to 1/16 inch deep x 10 foot); web, painted over pitting (up to 1/8 inch deep x 10 foot x 12 inch)

Span 3 Beam 5: at bent 3, painted over pitting/section loss: bottom flange (0.75 inch average remaining x 1 foot); bottom flange 1 foot from bearing, painted over pitting (up to 1/16 inch deep x 10 foot); web, painted over pitting (up to 1/8 inch deep x 10 foot x 12 inch)

Span 4 Beam 5: at bent 3, painted over pitting: bottom flange (up to 1/8 inch deep x 3 foot); web (up to 1/8 inch deep x 5 foot x 15 inch)

Bent 3 Cap 1: along the length of the cap, vertical cracks (up to 1/32 inch x full height) and map cracks (hairline) at random

Bent 3 Cap 1: (PAR) both faces and underside, multiple delaminations (15 foot x 18 inch) with cracks (up to 1/8 inch) some with rust stains

Bent 3 Cap 1: (PAR) both faces and underside, multiple delaminations (15 foot x 18 inch) with cracks (up to 1/8 inch) some with rust stains

Bent 3 Cap 1: (PAR) both faces and underside, multiple delaminations (15 foot x 18 inch) with cracks (up to 1/8 inch) some with rust stains

Bent 3 Cap 1: 5 INCH DIAMETER X 1/2 INCH SPALL WITH EXPOSED REBAR NORTH FACE UNDER BEAM 2

Bent 3 Cap 1: (PAR) both faces and underside, multiple delaminations (15 foot x 18 inch) with cracks (up to 1/8 inch) some with rust stains

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

Bent 3 Cap 1: (PAR) 16 INCH X FULL HEIGHT X 2 INCH DEEP SPALL WITH EXPOSED REINFORCING WITH APPROXIMATELY 25 PERCENT LOSS, WEST FACE, IN BEAM 4 PEDESTAL.

Span 4 Beam 3: (PAR) at bent 3, painted over section loss/pitting: web adjacent to end diaphragm (5/16 inch average remaining x 10 inch x 2 inch)

Bent 3 Cap 1: (PAR) 6 INCH X FULL WIDTH X 12 INCH X 2 INCH DEEP SPALL WITH EXPOSED REBAR WITH APPROXIMATELY 25 PERCENT LOSS, WEST FACE, IN BEAM 3 PEDESTAL.

Span 3 Beam 2: at bent 3, web adjacent to end diaphragm, rust scale (10 inch)

Span 3 Beam 1: at bent 3, painted over section loss/pitting: bottom flange (0.67 inch average remaining x 3 inch); web adjacent to end diaphragm, painted over pitting (up to 1/8 inch deep x 14 inch x 12 inch)

Span 3 Beam 1: at bent 3, painted over section loss/pitting: bottom flange (0.67 inch average remaining x 3 inch); web adjacent to end diaphragm, painted over pitting (up to 1/8 inch deep x 14 inch x 12 inch)

Span 4 Beam 1: at bent 3, painted over pitting: web (up to 1/8 inch deep x 2 foot x 12 inch); bottom flange (up to 1/16 inch deep x 2 foot)

Span 3 Deck: (PAR) bay 4 end diaphragm over bent 2, spalls/delamination (full width x 1 foot x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)

Span 4 Deck: (PAR) bay 2 end diaphragm over bent 2, spalls/delaminations (3 foot x 12 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)

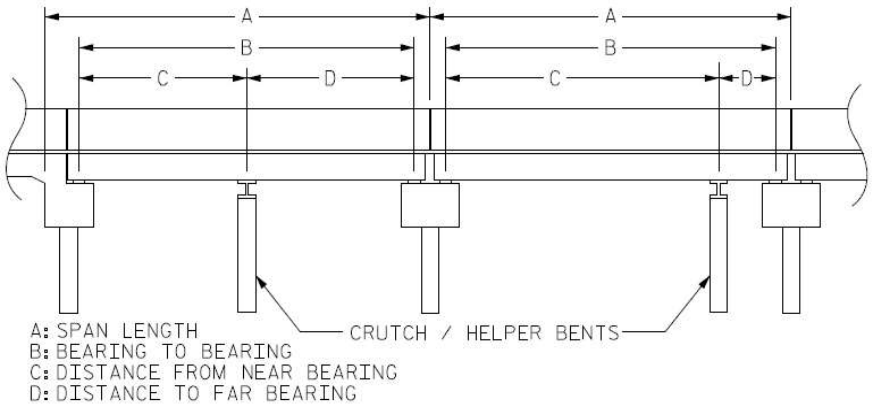
(PAR) northwest guardrail attachment, improper lap

(PAR) southeast guardrail attachment, improper lap

Structure Data Worksheet

Span Profile

County: **BURKE** Structure Number: **110144**



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	35.330	33.167			
2	52.500	51.167			
3	52.500	51.167			
4	42.000	40.250			

Structure Number: 110144 Span: 2 Route Name: I 40 E

roadway under span 2, looking east

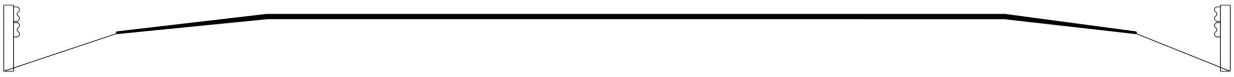
Route Number: 11000400	**Route Name:** I 40 E			**Reference Feature:** H
Minimum Vertical Clearance 14.900 feet	**Maximum Minimum Vertical Clearance** 15.210 feet			
Total Horizontal Clearance 42.150 feet	**Lateral Clearances: Left:** 13.120 feet **Right** 10.470 feet			
☑ **Base Highway Network**	**LRS Inventory Route, Sub Route Number** 10040			
Milepost: 106.400	**Number of Lanes:** 2	**ADT:** 22500	**Year of ADT:** 2015	**Percentage of Trucks:** 16
☑ **National Highway System**		☐ **STRAHNET Highway Designator**		
Functional Classification 11	Local Principal Arterial - Interstate	**Direction of Traffic:** 1	1 - way traffic	

Structure Number: 110144 Span: 3 Route Name: I 40 W

roadway under span 3, looking west

Route Number: 11000400	**Route Name:** I 40 W			**Reference Feature:** H
Minimum Vertical Clearance 16.160 feet	**Maximum Minimum Vertical Clearance** 16.860 feet			
Total Horizontal Clearance 42.680 feet	**Lateral Clearances: Left:** 13.230 feet **Right** 10.630 feet			
☑ **Base Highway Network**	**LRS Inventory Route, Sub Route Number** 10040			
Milepost: 106.400	**Number of Lanes:** 2	**ADT:** 22500	**Year of ADT:** 2015	**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	19.667ft Wide	2 Paved Lanes	Looking North
Left Shoulder	7ft Wide	4ft Paved	3ft Unpaved
Right Shoulder	6ft Wide	3.5ft Paved	2.5ft Unpaved
Left Guardrail	7ft from road		
Right Guardrail	6ft from road		

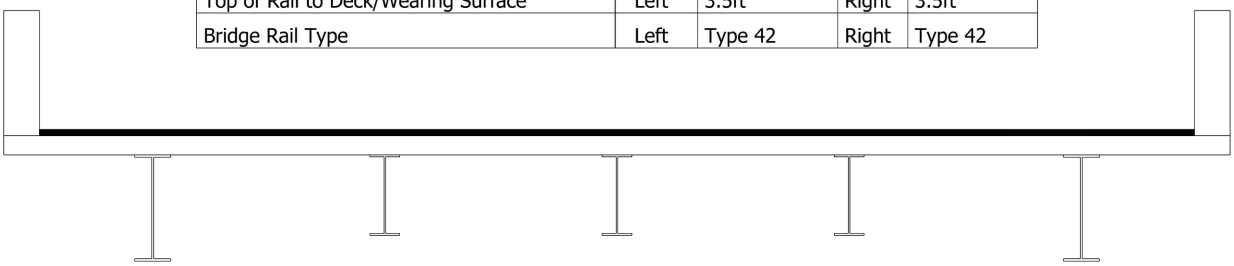
MEASUREMENTS TAKEN 125' FROM END BENT 1

Title	Description
APPROACH ROADWAY	LOOKING NORTH

Structure No:	Drawn By:	Date:	Filename:
110144	JCRODRIGUEZ	8/10/2023	S000930000235.wes

Bridge Inspection Field Sketch

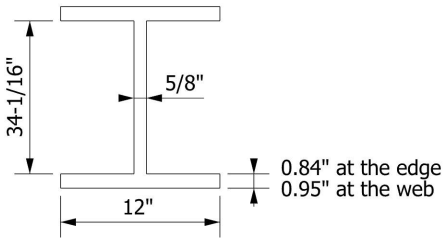
Deck Width/Out to Out	34.333ft	Between Rails			32.5ft
Clear Roadway	26ft	Wearing Surface			2in
Median Width		Median Height			
Curb Height		Left	8in	Right	8in
Sidewalk Width		Left	3.25ft	Right	3.25ft
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left	9in	Right	9in
Top of Rail to Deck/Wearing Surface		Left	3.5ft	Right	3.5ft
Bridge Rail Type		Left	Type 42	Right	Type 42



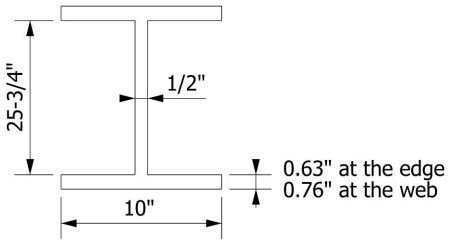
Measurements for Span #	1	All Spans Similar	
Deck Thickness	6.5in	Left Overhang	4.167ft
Top of Rail to Bottom of Beam (Avg)	7.167ft	Right Overhang	4.167ft

Beam #	Beam Type	Width	Height	Spacing	From
1	Plate Girder	12in	35.68in	4.167ft	Left Edge of Deck
2	Plate Girder	10in	27in	6.5ft	Beam 1
3	Plate Girder	10in	27in	6.5ft	Beam 2
4	Plate Girder	10in	27in	6.5ft	Beam 3
5	Plate Girder	12in	35.68in	6.5ft	Beam 4

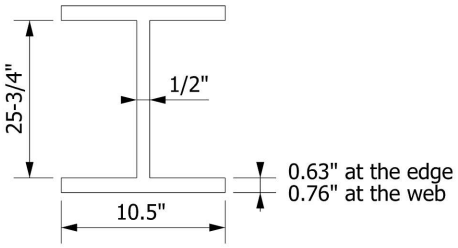
Spans 2 & 3 Beams 1-5
Spans 1 & 4 Beams 1 & 5



Span 1 Beams 2-4



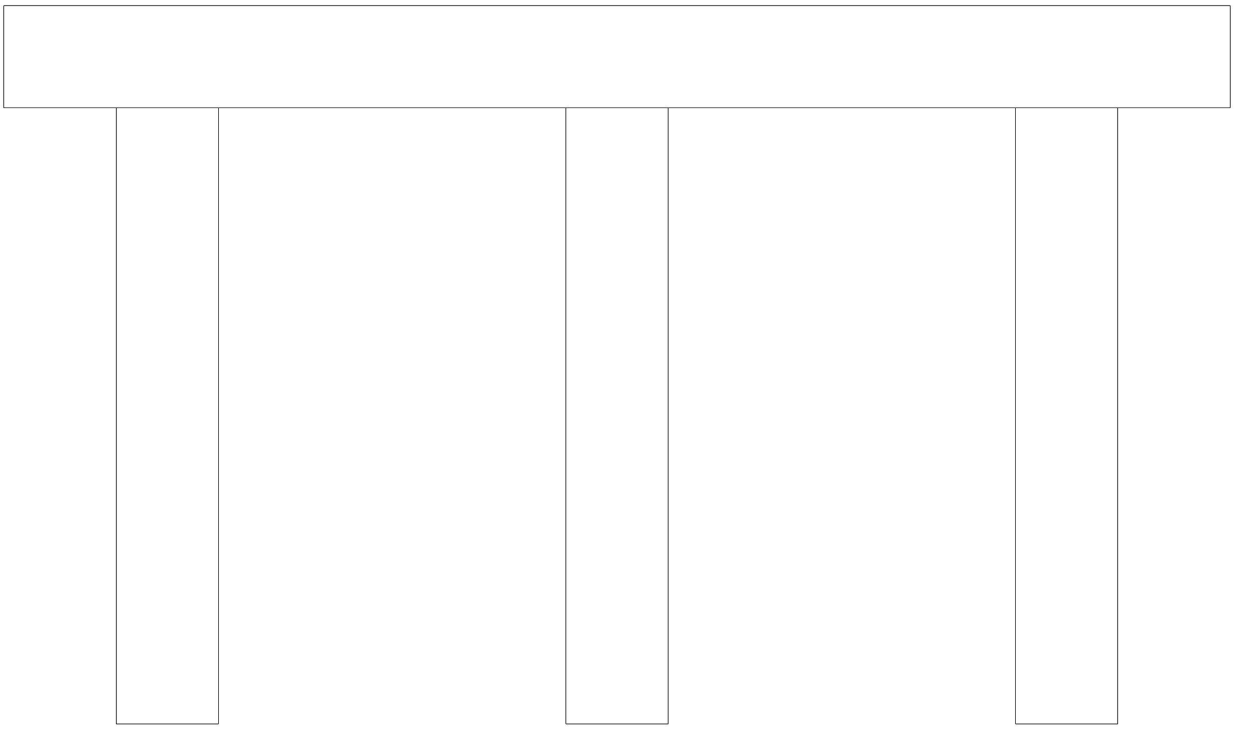
Span 4 Beams 2-4



Title TYPICAL SECTION	Description LOOKING NORTH

Structure No:	110144	Drawn By:	JCRODRIGUEZ	Date:	8/10/2023	Filename:	S000930000236.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	30ft	30in	30in	2ft	1.33ft

Piles							
#	Name	Type	Spacing	From	Height/Diam.	Width	Length
1	Pile 1	Reinforced Concrete Column	4ft	Left End of Bent	30in	30in	17.25ft
2	Pile 2	Reinforced Concrete Column	11ft	Pile 1	30in	30in	17.25ft
3	Pile 3	Reinforced Concrete Column	11ft	Pile 2	30in	30in	17.25ft

Title	Description
BENT SKETCH	LOOKING NORTH

Structure No: 110144	Drawn By: JCRODRIGUEZ	Date: 8/10/2023	Filename: S000930000237.wes

bent 2

roadway under span 2, looking east

west profile looking east

bent 1

east profile looking west

bent 3

superstructure underside

roadway under span 3, looking west

end bent 2 and slope protection

northwest wingwall

northeast wingwall

end bearing assembly

intermediate diaphragm

end diaphragm

bridge plaque

northwest guardrail termination

northeast guardrail termination

north approach looking south

end bent 2 asphalt

northeast guardrail attachment

northeast guardrail

northwest guardrail attachment

northwest guardrail

northwest guardrail transition

bent 3 asphalt

north approach looking north

bent 2 asphalt

roadway looking east

roadway looking west

bent 1 asphalt

south approach looking south

southeast guardrail attachment

southeast guardrail

southeast guardrail transition

end bent 1 asphalt

southwest guardrail attachment

southwest guardrail

south approach looking north

southwest guardrail termination

southeast guardrail termination

asphalt wearing surface

left bridge rail

right bridge rail

southwest wingwall

end bent 1 and slope protection

southeast wingwall

beams over bent 1 and interior bearing assembly (exterior beams)

beams over bent 1 and interior bearing assembly (interior beams)

ladder used