NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: prompt action request; sketches updated; route sign attached to span 3 beam 1

Structure Safety Report

Routine Element Inspection - Contract

STRUCTURE NUMBER: 110064 **SAP STRUCTURE NO:** 0120064 **FHWA STRUCTURE NO** 000000000230064

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

FACILITY CARRIED: SR1138 **MILE POST:**

LOCATION: .1 MI.N.JCT.SR1142

FEATURE INTERSECTED: I40

LATITUDE: 35° 41' 36.91" **LONGITUDE:** 81° 48' 37.72"

SUPERSTRUCTURE: REINFORCED CONCRETE DECK GIRDERS

SUBSTRUCTURE: E.BTS:RC SPILL THRU;INT.BTS:RC POST&BEAM

SPANS: 5 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

☐ FRACTURE CRITICAL ☐ TEMPORARY SHORING ☐ SCOUR CRITICAL ☐ SCOUR PLAN OF ACTION

GRADES: (Inspector/NBI Coding) **DECK** 7 / 7 **SUPERSTRUCTURE** 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

10/31/2023

IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE **110064**
(8) STRUCTURE NUMBER (FEDERAL) **0230064**
(5) INVENTORY ROUTE (ON/UNDER) ON **131011380**
(2) STATE HIGHWAY DEPARTMENT DISTRICT **13**
(3) COUNTY CODE (FEDERAL) **23** (4) PLACE CODE **44400**
(6) FEATURE INTERSECTED **I40**
(7) FACILITY CARRIED **SR1138**
(9) LOCATION **.1 MI.N.JCT.SR1142**
(11) MILEPOINT **0.0**
(12) BASE HIGHWAY NETWORK **0**
(13) LRS INVENTORY ROUTE & SUBROUTE
(16) LATITUDE **35° 41' 36.91"** (17) LONGITUDE **81° 48' 37.72"**
(98) BORDER BRIDGE STATE CODE PERCENT SHARED
(99) BORDER BRIDGE STRUCTURE NUMBER

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN **Concrete**
TYPE **Tee Beam** CODE **104**
(44) STRUCTURE TYPE APPROACH
TYPE CODE
(45) NUMBER OF SPANS IN MAIN UNIT **5**
(46) NUMBER OF SPANS IN APPROACH **0**
(107) DECK STRUCTURE TYPE CODE **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 **1956**
(106) YEAR RECONSTRUCTED **0**
(42) TYPE OF SERVICE ON - **Overpass Structure**
OFF - **Highway** CODE **61**
(28) LANES ON STRUCTURE **2** LANES UNDER STRUCTURE **4**
(29) AVERAGE DAILY TRAFFIC **2300**
(30) YEAR OF ADT **2021** (109) TRUCK ADT PCT **7**
(19) BYPASS OR DETOUR LENGTH **0.0**

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN **55.0**
(49) STRUCTURE LENGTH **238.0**
(50) CURB OR SIDEWALK: LEFT **1.5** RIGHT **1.5**
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB **28.3**
(52) DECK WIDTH OUT TO OUT **33.5**
(32) APPROACH ROADWAY WITH (W/ SHOULDERS) **24.0**
(33) BRIDGE MEDIAN **No median** CODE **0**
(34) SKEW **25** (35) STRUCTURE FLARED **0**
(10) INVENTORY ROUTE MIN VERT CLEAR **999.9**
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR **28.3**
(53) MIN VERT CLEAR OVER BRIDGE RDWY **999.9**
(54) MIN VERT UNDERCLEAR: REFERENCE **H** **15.0**
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE **H** **9.9**
(56) MIN LAT UNDERCLEARANCE LT: **13.4**

NAVIGATION DATA

(38) NAVIGATION CONTROL - CODE **N**
(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 **70.82**
STATUS =

CLASSIFICATION — CODE

(112) NBIS BRIDGE SYSTEM **YES**
(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 **No parallel structure exists** **N**
(102) DIRECTION OF TRAFFIC **2-way traffic** **2**
(103) TEMPORARY STRUCTURE
(110) DESIGNATED NATIONAL NETWORK - **on national network for trucks** **0**
(20) TOLL **On Free Road** **3**
(21) MAINT - **01**
(22) OWNER - **01**
(37) HISTORICAL SIGNIFICANCE - **5**

CONDITION — CODE

(58) DECK **7**
(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-27** **49**
(65) INVENTORY RATING METHOD - **1**
(66) INVENTORY RATING **HS-16** **29**
(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 **4**
(69) UNDERCLEARANCES, VERT & HORIZ **3**
(71) WATERWAY ADEQUACY **N**
(72) APPROACH ROADWAY ALIGNMENT **8**
(36) TRAFFIC SAFETY FEATURES **0111**
(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 **4,600** 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 **110064** County **BURKE** Run Date **10/31/2023**

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
3	I 40 E	11000400	18.0	96.0	1	10040	11	2	19750	2019	42.0	H	17.1	10.1	12.9	4		1	☐	☐
4	I 40 W	11000400	15.5	96.0	1	10040	11	2	19750	2019	42.1	H	15.0	9.9	13.4	3		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** 36.000 **Skew** 65.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	1008 Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	72 Feet		
4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	140 Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1134 Square Feet		
4	Movable Bearing	Movable Bearing	4 Each	Legacy Red Lead Primer Systems with Various Topcoats	4
4	Fixed Bearing	Fixed Bearing	4 Each	Legacy Red Lead Primer Systems with Various Topcoats	4

Span Number 2 **Span Length** 36.000 **Skew** 65.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Standard Joint	Pourable Joint Seal	31 Feet		
4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	144 Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1134 Square Feet		
4	Movable Bearing	Movable Bearing	4 Each	Legacy Red Lead Primer Systems with Various Topcoats	4
1	Asphalt Wearing Surface	Wearing Surface	1008 Square Feet		
4	Fixed Bearing	Fixed Bearing	4 Each	Legacy Red Lead Primer Systems with Various Topcoats	4
2	Concrete Railing	Reinforced Concrete Bridge Railing	72 Feet		

Span Number 3 **Span Length** 56.500 **Skew** 65.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Other warning sign	Other Warning Signs	1 Each		
4	Movable Bearing	Movable Bearing	4 Each	Legacy Red Lead Primer Systems with Various Topcoats	4
1	Standard Joint	Pourable Joint Seal	31 Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	114 Feet		

Superstructure Build Details

1	Asphalt Wearing Surface	Wearing Surface	1582	Square Feet		
4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	228	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1780	Square Feet		
4	Fixed Bearing	Fixed Bearing	4	Each	Legacy Red Lead Primer Systems with Various Topcoats	4

Span Number 4 **Span Length** 56.500 **Skew** 65.000

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	228	Feet		
1	Standard Joint	Pourable Joint Seal	31	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1780	Square Feet		
1	Other warning sign	Other Warning Signs	1	Each		
2	Concrete Railing	Reinforced Concrete Bridge Railing	114	Feet		
4	Fixed Bearing	Fixed Bearing	4	Each	Legacy Red Lead Primer Systems with Various Topcoats	4
1	Asphalt Wearing Surface	Wearing Surface	1582	Square Feet		
4	Movable Bearing	Movable Bearing	4	Each	Legacy Red Lead Primer Systems with Various Topcoats	4

Span Number 5 **Span Length** 52.500 **Skew** 65.000

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1654	Square Feet		
2	Standard Joint	Pourable Joint Seal	31	Feet		
4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	208	Feet		
4	Movable Bearing	Movable Bearing	4	Each	Legacy Red Lead Primer Systems with Various Topcoats	4
4	Fixed Bearing	Fixed Bearing	4	Each	Legacy Red Lead Primer Systems with Various Topcoats	4
2	Concrete Railing	Reinforced Concrete Bridge Railing	106	Feet		
1	Asphalt Wearing Surface	Wearing Surface	1470	Square Feet		

Structure Element Scoring

Structure Number: **110064**

Inspection Date **8/9/2023**

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12		Reinforced Concrete Deck	Deck	7,482	7,479	1	0	2
110		Reinforced Concrete Open Girder/Beam	Beam	948	592	269	51	36
205		Reinforced Concrete Column	Piles and Columns	14	6	3	5	0
215		Reinforced Concrete Abutment	Abutments	90	90	0	0	0
220		Reinforced Concrete Pile Cap/Footing	Footing	49	49	0	0	0
234		Reinforced Concrete Pier Cap	Caps	208	103	2	42	61
301		Pourable Joint Seal	Expansion Joints	124	124	0	0	0
311		Movable Bearing	Bearing Device	20	0	8	12	0
515	311	Steel Protective Coating	Bearing Device	20	0	0	0	20
313		Fixed Bearing	Bearing Device	20	2	7	11	0
515	313	Steel Protective Coating	Bearing Device	20	2	1	3	14
331		Reinforced Concrete Bridge Railing	Bridge Rail	478	477	0	1	0
510		Wearing Surface	Wearing Surfaces	6,650	5,164	0	1,486	0
603		Other Warning Signs	Ground Mounted Signs	2	1	0	0	1

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **110064** Inspection Date: **08/09/2023**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Delamination/Spall	1 Square Feet
3326	Reinforced Concrete Deck	Exposed Rebar	2 Square Feet
3306	Reinforced Concrete Open Girder/Beam	Delamination/Spall	24 Feet
3306	Reinforced Concrete Open Girder/Beam	Patched Area	12 Feet
3306	Reinforced Concrete Open Girder/Beam	Exposed Rebar	85 Feet
3306	Reinforced Concrete Open Girder/Beam	Cracking (RC and Other)	67 Feet
3306	Reinforced Concrete Open Girder/Beam	Efflorescence/Rust Staining	17 Feet
3348	Reinforced Concrete Column	Exposed Rebar	1 Each
3348	Reinforced Concrete Column	Delamination/Spall	4 Each
3348	Reinforced Concrete Column	Cracking (RC and Other)	5 Each
3348	Reinforced Concrete Pier Cap	Exposed Rebar	61 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	12 Feet
3348	Reinforced Concrete Pier Cap	Patched Area	5 Feet
3348	Reinforced Concrete Pier Cap	Efflorescence/Rust Staining	32 Feet
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	18 Feet
3334	Movable Bearing	Corrosion	12 Each
3334	Fixed Bearing	Corrosion	11 Each
3318	Reinforced Concrete Bridge Railing	Patched Area	1 Square Feet
2816	Wearing Surface	Crack (Wearing Surface)	1486 Square Feet
3342	Steel Protective Coating	Peeling/Bubbling/Cracking (steel Protective Coatings)	2 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	36 Square Feet

Element Structure Maintenance Quantities

Structure Number: **110064** Inspection Date **08/09/2023**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Beam	3306	Maintenance Concrete Superstructure Components	205	948	36.000	51.000	269.000	592.000
Bearing Device	3334	Bridge Bearing	12	20	0.000	12.000	8.000	0.000
Bearing Device	3334	Bridge Bearing	11	20	0.000	11.000	7.000	2.000
Bearing Device	3342	Clean and Paint Steel	20	20	20.000	0.000	0.000	0.000
Bearing Device	3342	Clean and Paint Steel	18	20	14.000	3.000	1.000	2.000
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	1	478	0.000	1.000	0.000	477.000
Deck	3326	Maintenance of Concrete Deck	3	7482	2.000	0.000	1.000	7479.000
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	124	0.000	0.000	0.000	124.000
Ground Mounted Signs	3250	Install or Replace Ground Mounted Signs	0	2	1.000	0.000	0.000	1.000
Wearing Surfaces	2816	Asphalt Surface Repair	1486	6650	0.000	1486.000	0.000	5164.000
Abutments	3350	Maintenance of Concrete Wings and Wall	0	90	0.000	0.000	0.000	90.000
Caps	3348	Maintenance of Concrete Substructure	128	208	61.000	42.000	2.000	103.000
Footing	3348	Maintenance of Concrete Substructure	0	49	0.000	0.000	0.000	49.000
Piles and Columns	3348	Maintenance of Concrete Substructure	10	14	0.000	5.000	3.000	6.000

Priority Actions Request

Structure Number 110064

Span1

3326 **Deck** Reinforced Concrete Deck

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	1	Span 1 Deck: (PAR) west overhang 10 foot from end bent 1, spall (5 inch x 5 inch x 1/2 inch deep) with exposed rusted rebar

3306 **Beam 1** Reinforced Concrete Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	3	Span 1 Beam 1: (PAR) at bent 1, west face and underside, (2) spalls/delamination (up to 2.5 foot x 2 foot x 2 inch deep) with exposed rusted rebar (approximately 25 percent loss)

3306 **Beam 3** Reinforced Concrete Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Efflorescence/Rust Staining	1	Span 1 Beam 3: (PAR) West face at far end, diagonal crack [18 inch x 1/32 inch] with rust stain

3306 **Beam 4** Reinforced Concrete Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	3	Span 1 Beam 4: (PAR) at bent 1, west and east faces and underside, multiple spalls/delaminations (up to 8 inch x 12 inch x 1/2 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch)

Span2

3326 **Deck** Reinforced Concrete Deck

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	2	Span 2 Deck: (PAR) over bent 1, east overhang, spall (4 inch diameter x 1/2 inch deep) with exposed rusted rebar (approximately 25 percent loss)

3306 **Beam 1** Reinforced Concrete Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	3	Span 2 Beam 1: (PAR) at bent 2, west face and underside, multiple spalls/delaminations (2 foot x 32 inch x 2.5 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch)
2	Efflorescence/Rust Staining	1	Span 2 Beam 1: (PAR) East face at near end, vertical crack [10 inch x 1/32 inch] with rust stain
2	Efflorescence/Rust Staining	4	Span 2 Beam 1: (PAR) West face at near end, longitudinal crack [4 foot x 1/32 inch] and diagonal crack [full height x 1/32 inch] with rust stain and efflorescence
2	Exposed Rebar	7	Span 2 Beam 1: (PAR) at bents 1 and 2, bay 1 end diaphragm, spalls/delaminations (up to full length x up to full height x 3 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch) with rust stains

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

Priority Actions Request

Structure Number 110064

3306 **Beam 3** Reinforced Concrete Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	7	Span 2 Beam 3: (PAR) at bents 1 and 2, bay 3 end diaphragm, spalls/delaminations (up to full length x 8 inch x 1.5 deep) with exposed rusted rebar (approximately 25 percent loss)

3306 **Beam 4** Reinforced Concrete Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Efflorescence/Rust	4	Span 2 Beam 4: (PAR) near bent 1, delamination (4 foot x 8 inch) and cracks (up to 1/16) with rust stains
2	Exposed Rebar	3	Span 2 Beam 4: (PAR) at bent 2, west and east faces and underside, multiple spalls/delaminations (up to 18 inch x 8 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)

Span3

3306 **Beam 1** Reinforced Concrete Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	14	Span 3 Beam 1: (PAR) at bents 2 and 3, bay 1 end diaphragms, spalls/delaminations (up to full length x full height x up to 1.5 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch)

3306 **Beam 3** Reinforced Concrete Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	1	Span 3 Beam 3: (PAR) at bent 3, west face, spall/delamination (11 inch x 11 inch x 1/2 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/32 inch)
2	Exposed Rebar	3	Span 3 Beam 3: (PAR) East face over bent 2, (3) spalls/delaminations [up to 17 inch long x 24 inch high x up to 2 inch deep] with exposed rusted rebar [approximately 25 percent loss] and cracks [up to 1/16 inch]

3306 **Beam 4** Reinforced Concrete Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Cracking (RC and	11	Span 3 Beam 4: (PAR) West face at near end, delamination [11 foot long x up to 9 inch high] with associated 1/2 inch crack, delamination extends to right Eastbound lane of I-40 below
2	Exposed Rebar	3	Span 3 Beam 4: (PAR) at bent 3, west face, (2) spalls/delaminations (1 foot x 30 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/32 inch)

Span4

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

Priority Actions Request

Structure Number 110064

3306 **Beam 1** Reinforced Concrete Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	6	Span 4 Beam 1: (PAR) at bent 3, east face and underside, spalls/delaminations (up to 6 foot x 18 inch x 2 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/16 inch)
2	Exposed Rebar	7	Span 4 Beam 1: (PAR) at bents 3 and 4, bay 1 end diaphragms, spalls/delaminations (up to full length x full height x up to 1.5 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch) and rust stains

3306 **Beam 2** Reinforced Concrete Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	14	Span 4 Beam 2: (PAR) at bents 3 and 4, bay 2 end diaphragms, spalls/delaminations (up to full length x full height x up to 1.5 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch) with rust stains

3306 **Beam 4** Reinforced Concrete Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Efflorescence/Rust Staining	7	Span 4 Beam 4: (PAR) AT BENT 3, (2) UP TO 7 FOOT X 1/32 INCH LONGITUDINAL CRACKS, ON BOTTOM AND WEST FACES WITH EFFLORESCENCE AND RUST STAIN
2	Exposed Rebar	4	Span 4 Beam 4: (PAR) at bent 3, east face, spall/delamination (43 inch x 43 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/32 inch)

3250 **Route Marker Sign** Other warning sign

Priority Level	Defect Type	Quantity	Defect Description
2	General Condition	0	Span 4 Route Marker Sign: (PAR) route sign, missing

Span5

3306 **Beam 3** Reinforced Concrete Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	1	Span 5 Beam 3: (PAR) at bent 4, west face, spall/delamination (5 inch x 2 foot x 4 inch deep) with exposed rusted rebar (approximately 25 percent loss)

3306 **Beam 4** Reinforced Concrete Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Patched Area	6	Span 5 Beam 4: (PAR) at bent 4, west face and underside, spall/delamination (6 foot x full width x up to 6 inch x 1.5 inch deep) with exposed rusted rebar (approximately 25 percent loss)

Priority Actions Request

Structure Number 110064

Bent 1

3348 **Cap 1** Reinforced Concrete Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	28	Bent 1 Cap 1: (PAR) along north and south faces, multiple spalls/delaminations (up to 16 foot x full height foot x 2.5 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (1/8 inch) at random
2	Exposed Rebar	1	Bent 1 Cap 1: (PAR) east face, spall/delamination (12 inch x 6 inch x 1 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	Exposed Rebar	10	End Bent 2 Cap 1: (PAR) top of South face at bay 3, spall/delamination [10 foot x full height x full width x up to 3 inch deep] with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/18 inch)

3348 **Cap 1** Reinforced Concrete Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
2	Efflorescence/Rust	6	Bent 2 Cap 1: (PAR) (2)- UP TO 10 FOOT X 1/16 INCH HORIZONTAL CRACKS WITH RUST STAINS, SOUTH FACE, UNDER BAYS 2 AND 3.
2	Efflorescence/Rust	1	Bent 2 Cap 1: (PAR) southwest corner, spall/delamination (18 inch x 6 inch x 1 inch deep) with exposed rusted rebar and adjacent map cracks (up to 1/32 inch) with rust stains
2	Exposed Rebar	8	Bent 2 Cap 1: (PAR) South face at East end, spall/delamination [84 inch long x up to full height x up to 3 inch deep] with exposed rusted rebar and stirrups [rebar and stirrups with approximately 25 percent loss] and cracks [up to 1/8 inch]
2	Exposed Rebar	14	Bent 2 Cap 1: (PAR) underside of cap between columns, spall/delamination [14 foot long x full width x up to 4 inch deep] that extends onto south face [13 inch] with exposed rusted rebar and stirrups [rebars with approximately 25 percent loss; stirrups approximately 35 percent loss]

Bent 3

3348 **Cap 1** Reinforced Concrete Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
2	Efflorescence/Rust	10	Bent 3 Cap 1: (PAR) BENT 3 CAP HAS SCATTERED CRACKS UP TO 1/16 INCH SOME WITH ADJACENT DELAMINATION (UP TO 7 FOOT X 1.5 FOOT) AND RUST STAINS.

3348 **Pile 1** Reinforced Concrete Column

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

Priority Actions Request

Structure Number **110064**

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	1	Bent 3 Pile 1: (PAR) 6 INCH DIAMETER X 1/2 INCH SPALL WITH EXPOSED REINFORCING (APPROXIMATELY 10 PERCENT LOSS) ON EAST FACE NEAR GROUNDLINE.

Bent 4

3348 **Cap 1** Reinforced Concrete Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
2	Efflorescence/Rust Staining	10	Bent 4 Cap 1: (PAR) underside of cap between columns 1 and 2, longitudinal cracks (up to 1/16 inch x 4 foot) some with rust stains and adjacent delaminations (up to 8 foot x full width)
2	Efflorescence/Rust Staining	1	Bent 4 Cap 1: (PAR) west face at bottom corner, map cracks (up to 1/32 inch) with rust stains

Approach Guardrail and Barriers

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

Priority Level	Defect Type	Quantity	Defect Description
2		2	(PAR) northeast guardrail, 3rd and 12th timber posts from end bent 2, decay/section loss (up to full width x full height x full depth)
2		1	(PAR) northwest guardrail, 1st timber spacer from end bent 2, decay/section loss (full height x 3 inch x 3 inch deep)
2		1	(PAR) southeast guardrail, 9th timber spacer from end bent 1, missing
2		1	(PAR) southwest guardrail, 13th timber post from end bent 1, decay/section loss (up to full width x full height x full depth)

Element Condition and Maintenance Data

Structure Number: **110064** Inspection Date: **08/09/2023**

Span 1 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,134	1,133	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 12	Delamination/Spall	(PAR) west overhang 10 foot from end bent 1, spall (5 inch x 5 inch x 1/2 inch deep) with exposed rusted rebar	2	1	1	Square Feet

General Comments

Span 1 Beam 1

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	35	27	5	0	3	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 110	Exposed Rebar	(PAR) at bent 1, west face and underside, (2) spalls/delamination (up to 2.5 foot x 2 foot x 2 inch deep) with exposed rusted rebar (approximately 25 percent loss)	4	3	3	Feet
☑ 110	Cracking (RC and Other)	at bent 1, east face, delamination (26 inch x 6 inch) with cracks (up to 1/2 inch)	3		2	Feet
☑ 110	Cracking (RC and Other)	along the length of the beam, vertical cracks (up to 1/32 inch x full height) at random	2	5		Feet
☐ 110	Delamination/Spall	DUPLICATE DEFECT 8-21-2019	1			Feet

General Comments

Span 1 Beam 3

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	35	30	4	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 110	Efflorescence/Rust Staining	(PAR) West face at far end, diagonal crack [18 inch x 1/32 inch] with rust stain	3	1	1	Feet
☑ 110	Cracking (RC and Other)	along far half of beam, vertical/diagonal cracks (up to 1/64 inch x full height)	2	4		Feet

General Comments

Span 1 Beam 4

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	35	28	4	0	3	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **110**	Exposed Rebar	(PAR) at bent 1, west and east faces and underside, multiple spalls/delaminations (up to 8 inch x 12 inch x 1/2 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch)	4	3	3	Feet
☑ **110**	Cracking (RC and Other)	along the length of the beam, vertical cracks (up to 1/64 inch x full height) at random	2	4		Feet
☑ **110**	Delamination/Spall	(COMBINED WITH OTHER NOTES 2023) SPAN 1 BEAM 4 EAST FACE AT BENT 1. DELAMINATION [8 INCH X 13 INCH]	1			Feet
☑ **110**	Delamination/Spall	(COMBINED WITH OTHER NOTES 2023) SPAN 1 BOTTOM OF BEAM 4 OVER BENT 1. HAS A SPALLED AREA WITH REBAR EXPOSED. AREA IS: 4 INCH X 5 INCH X 1 INCH DEEP [NO LOSS NOTED]	1			Feet

General Comments

Span 1 — Near Bearing 1

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **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 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 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	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

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

General Comments

Span 1 — Far Bearing 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	RUST SCALE	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale	4	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	RUST SCALE	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale	4	1	1	Square Feet

General Comments

Span 1 — Far Bearing 4

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **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 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,008	746	0	262	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 510	Crack (Wearing Surface)	over bent 1, partially sealed transverse crack (1/8 inch x full width) with vegetation growth	3	31	31	Square Feet
☑ 510	Crack (Wearing Surface)	over end bent 1, transverse crack (1/4 inch x full width) with vegetation growth	3	31	31	Square Feet
☑ 510	Crack (Wearing Surface)	WEARING SURFACE HAS SCATTERED TRANSVERSE AND LONGITUDINAL CRACKS UP TO 1/8 INCH	3	200	200	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	1,134	1,132	0	0	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 12	Exposed Rebar	(PAR) over bent 1, east overhang, spall (4 inch diameter x 1/2 inch deep) with exposed rusted rebar (approximately 25 percent loss)	4	2	2	Square Feet

General Comments

Span 2 — Beam 1

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	36	17	12	4	3	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 110	Exposed Rebar	(PAR) at bent 2, west face and underside, multiple spalls/delaminations (2 foot x 32 inch x 2.5 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch)	4	3	3	Feet
☑ 110	Exposed Rebar	(PAR) at bents 1 and 2, bay 1 end diaphragm, spalls/delaminations (up to full length x up to full height x 3 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch) with rust stains	4		7	Feet
☑ 110	Efflorescence/Rust Staining	(PAR) East face at near end, vertical crack [10 inch x 1/32 inch] with rust stain	3	1	1	Feet
☑ 110	Efflorescence/Rust Staining	(PAR) West face at near end, longitudinal crack [4 foot x 1/32 inch] and diagonal crack [full height x 1/32 inch] with rust stain and efflorescence	3	3	4	Feet
☑ 110	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH, AT RANDOM THROUGHOUT.	2	12		Feet

General Comments

Span 2 Beam 2

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	36	16	18	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 110	Cracking (RC and Other)	at bents 1 and 2, bay 2 end diaphragm, delaminations (up to full length x full width) with cracks (up to 1/8 inch)	3		7	Feet
☑ 110	Cracking (RC and Other)	West and east faces over bent 2, spalls/delaminations [up to 30 inch high x 7 inch wide x 3 inch deep] with cracks (up to 1/8 inch)	3	1	1	Feet
☑ 110	Delamination/Spall	East face at near end, delamination/spall [10 inch x 15 inch x up to 1/2 inch deep] with exposed rusted rebar	3	1	1	Feet
☑ 110	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH, AT RANDOM THROUGHOUT.	2	18		Feet

General Comments

Span 2 Beam 3

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	36	23	12	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 110	Exposed Rebar	(PAR) at bents 1 and 2, bay 3 end diaphragm, spalls/delaminations (up to full length x 8 inch x 1.5 deep) with exposed rusted rebar (approximately 25 percent loss)	4		7	Feet
☑ 110	Delamination/Spall	at bent 2, underside, (2) spalls/delaminations (up to 1 foot x 6 inch x 1/2 inch deep) with exposed rusted rebar	3	1	1	Feet
☑ 110	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH, AT RANDOM THROUGHOUT.	2	12		Feet

General Comments

Span 2 Beam 4

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	36	13	16	4	3	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 110	Exposed Rebar	(PAR) at bent 2, west and east faces and underside, multiple spalls/delaminations (up to 18 inch x 8 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)	4	3	3	Feet
☑ 110	Efflorescence/Rust Staining	(PAR) near bent 1, delamination (4 foot x 8 inch) and cracks (up to 1/16) with rust stains	3	4	4	Feet
☑ 110	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH, AT RANDOM THROUGHOUT.	2	16		Feet

☑ **110**	Delamination/Spall	(combined with other notes 2023) West face at 3 foot from far end, two [2] spalls [up to 5 inch x 4 inch x 3/4 inch deep] with exposed rusted reinforcing [no loss noted]	1		Feet

General Comments

Span 2 — Left Bridge Rail

Concrete Railing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Cracking (RC and Other)	(NOT FOUND 2023) LEFT RAIL HAS SCATTERED MAP CRACKING UP TO 1/64 INCH	1			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	36	36	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Cracking (RC and Other)	(NOT FOUND 2023) RIGHT RAIL HAS SCATTERED MAP CRACKING UP TO 1/64 INCH	1			Feet

General Comments

Span 2 — Near Bearing 1

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	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 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 — 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	0	1	Square Feet

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

General Comments

Span 2 — Far Bearing 2

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	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 — Near Bearing 3

Movable Bearing

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

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

General Comments

Span 2 — Far Bearing 3

Fixed Bearing

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

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

General Comments

Span 2 — Far Bearing 4

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	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 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,008	877	0	131	0	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**510**	Crack (Wearing Surface)	over bent 2, partially sealed transverse crack (1/8 inch x full width) with edge spalling (up to 3 foot x 5 inch x 1/2 inch deep) with vegetation growth	3	31	31	Square Feet

☑ **510**	Crack (Wearing Surface)	WEARING SURFACE HAS SCATTERED TRANSVERSE AND LONGITUDINAL CRACKS UP TO 1/16 INCH	3	100	100	Square Feet

General Comments

Span 3 Beam 1

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	57	39	16	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **110**	Exposed Rebar	(PAR) at bents 2 and 3, bay 1 end diaphragms, spalls/delaminations (up to full length x full height x up to 1.5 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch)	4		14	Feet
☑ **110**	Delamination/Spall	WEST FACE OVER BENT 3. HAS A CRACK/SPALL AND DELAMINATED AREA. AREA IS: 22 INCH X 31 INCH X 1 INCH DEEP.	3	2	2	Feet
☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH, AT RANDOM THROUGHOUT.	2	15		Feet
☑ **110**	Delamination/Spall	at bent 2, east face at top, delamination (12 inch x 4 inch)	2	1	1	Feet

General Comments

Span 3 Beam 2

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	57	41	12	4	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **110**	Cracking (RC and Other)	at bents 2 and 3, bay 2 end diaphragms, spalls/delaminations (up to full length x full height) and cracks (up to 1/8 inch)	3		14	Feet
☑ **110**	Delamination/Spall	(4)- UP TO 3 INCH X 12 INCH X 1 INCH SPALLS WITH EXPOSED REINFORCING, WEST FACE, AT BENT 2.	3	4	4	Feet
☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/32 INCH, AT RANDOM THROUGHOUT.	2	10		Feet
☑ **110**	Delamination/Spall	near bent 3, west face, (3) delaminations (8 inch diameter) with cracks (up to 1/32 inch)	2	2	2	Feet
☐ **110**	Delamination/Spall	DUPLICATE DEFECT 8-21-2019.	1			Feet

General Comments

Span 3 Beam 3

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	57	41	12	0	4	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **110**	Exposed Rebar	(PAR) at bent 3, west face, spall/delamination (11 inch x 11 inch x 1/2 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/32 inch)	4	1	1	Feet
☑ **110**	Exposed Rebar	(PAR) East face over bent 2, (3) spalls/delaminations [up to 17 inch long x 24 inch high x up to 2 inch deep] with exposed rusted rebar [approximately 25 percent loss] and cracks [up to 1/16 inch]	4	3	3	Feet
☑ **110**	Cracking (RC and Other)	at bent 2, west face, delamination (2 inch x 1 foot) with cracks (up to 1/8 inch)	3		1	Feet
☑ **110**	Cracking (RC and Other)	at bents 2 and 3, bay 3 end diaphragms, spalls/delaminations (up to full length x full height) and cracks (up to 1/8 inch)	3		14	Feet
☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH, AT RANDOM THROUGHOUT.	2	12		Feet

General Comments

Span 3 Beam 4

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	57	23	18	13	3	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **110**	Exposed Rebar	(PAR) at bent 3, west face, (2) spalls/delaminations (1 foot x 30 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/32 inch)	4	3	3	Feet
☑ **110**	Cracking (RC and Other)	(PAR) West face at near end, delamination [11 foot long x up to 9 inch high] with associated 1/2 inch crack, delamination extends to right Eastbound lane of I-40 below	3	11	11	Feet
☑ **110**	Delamination/Spall	EAST FACE OVER BENT 2. HAS A SPALL WITH ADJACENT DELAMINATED AREA 7 INCH FROM END OF BEAM. AREA IS: 10 INCH X 30 INCH X 1/2 INCH DEEP.	3		2	Feet
☑ **110**	Delamination/Spall	EAST FACE. HAS (2) AREAS THAT ARE SPALLED WITH REBAR EXPOSED. LOCATED 38 INCH FROM END OF BEAM OVER BENT 2. AREAS ARE: UP TO 8 INCH X 14 INCH X 3/4 INCH DEEP.	3	2	2	Feet
☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH AT RANDOM THROUGHOUT.	2	18		Feet

General Comments

Span 3 Near Bearing 1

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	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 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 1/16 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

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 3 — Far Bearing 2

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	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 — 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 3 — Far Bearing 3

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	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 3 — Near Bearing 4

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	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

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**	Peeling/Bubbling/Crack surface rust/rust scaling (steel Protective Coatings)		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	1,582	1,151	0	431	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **510**	Crack (Wearing Surface)	over bent 3, partially sealed transverse crack (1/8 inch x full width) with edge spalling (up to 2 foot x 2 inch x 1/2 inch deep) with vegetation growth	3	31	31	Square Feet
☑ **510**	Crack (Wearing Surface)	WEARING SURFACE HAS SCATTERED TRANSVERSE AND LONGITUDINAL CRACKS UP TO 1/8 INCH	3	400	400	Square Feet

General Comments

Span 4 — Beam 1

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	57	32	16	3	6	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **110**	Exposed Rebar	(PAR) at bent 3, east face and underside, spalls/delaminations (up to 6 foot x 18 inch x 2 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/16 inch)	4	6	6	Feet
☑ **110**	Exposed Rebar	(PAR) at bents 3 and 4, bay 1 end diaphragms, spalls/delaminations (up to full length x full height x up to 1.5 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch) and rust stains	4		7	Feet
☑ **110**	Patched Area	WEST FACE AND BOTTOM HAS A PATCHED AREA (2.5 FOOT X 1.5 FOOT) WITH HAIRLINE MAP CRACKING.	3	3	3	Feet
☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH, AT RANDOM THROUGHOUT.	2	16		Feet

General Comments

Span 4 — Beam 2

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	57	44	12	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **110**	Exposed Rebar	(PAR) at bents 3 and 4, bay 2 end diaphragms, spalls/delaminations (up to full length x full height x up to 1.5 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch) with rust stains	4		14	Feet
☑ **110**	Delamination/Spall	BOTTOM OF BEAM 2 OVER BENT 4. HAS A CRACK/SPALL AND DELAMINATED AREA WITH REBAR EXPOSED. AREA IS: 8 INCH X FULL WIDTH X 1/2 INCH DEEP [NO LOSS NOTED]	3	1	1	Feet
☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH, AT RANDOM THROUGHOUT.	2	12		Feet

General Comments

Span 4 Beam 3

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	57	38	17	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **110**	Cracking (RC and Other)	SPAN 4 BEAM 3 WEST FACE OVER BENT 4. HAS A AREA THAT IS CRACKED (UP TO 1/16 INCH) AND DELAMINATED. AREA IS: (11 INCH X 31 INCH)	3	2	2	Feet
☑ **110**	Cracking (RC and Other)	UP TO FULL LENGTH X 1/8 INCH LONGITUDINAL CRACKS, IN BENTS 3 AND 4 END DIAPHRAGMS, AT RANDOM THROUGHOUT.	3		14	Feet
☑ **110**	Cracking (RC and Other)	near bent 3, west and east faces, longitudinal cracks (up to 1/32 inch x 2 foot)	2	2		Feet
☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH, AT RANDOM THROUGHOUT.	2	15		Feet

General Comments

Span 4 Beam 4

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	57	27	20	6	4	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **110**	Exposed Rebar	(PAR) at bent 3, east face, spall/delamination (43 inch x 43 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/32 inch)	4	4	4	Feet
☑ **110**	Cracking (RC and Other)	East face over bent 4, vertical crack [full height x up to 1/8 inch]	3		1	Feet
☑ **110**	Delamination/Spall	EAST FACE AND BOTTOM OVER WEST BOUND RIGHT LANE. (2) 8 INCH LONG X 6 INCH X 1.5 INCH DEEP SPALLS IN MID-SPAN FROM PREVIOUS IMPACT DAMAGE.	3	2	2	Feet
☑ **110**	Delamination/Spall	West face over bent 4, delamination/spall [1 foot x 2 foot] with map cracks (up to 1/32 inch)	3	1	1	Feet
☑ **110**	Efflorescence/Rust Staining	(PAR) AT BENT 3, (2) UP TO 7 FOOT X 1/32 INCH LONGITUDINAL CRACKS, ON BOTTOM AND WEST FACES WITH EFFLORESCENCE AND RUST STAIN	3	3	7	Feet

☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH, AT RANDOM THROUGHOUT.	2	20		Feet
☑ **110**	Damage	east face and underside over westbound right lane, impact damage	2			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	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	RUST SCALE	2	1		Each
☑	**515**	Effectiveness (Steel Protective Coatings)	rust scale	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	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 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 deep)	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 4 — Near Bearing 3

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	0	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 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 4 — Near Bearing 4

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	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**	Peeling/Bubbling/Crack surface rust/rust scaling (steel Protective Coatings)		4	1	1	Square Feet	

General Comments

Span 4 — Far Bearing 4

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	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 4 — Route Marker Sign

Other warning sign

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
603	Other Warning Signs	1	0	0	0	1	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **603**	General Condition	(PAR) route sign, missing	4	1		Each

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	1,582	1,151	0	431	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **510**	Crack (Wearing Surface)	over bent 4, partially sealed transverse crack (1/8 inch x full width) with edge spalling (up to 2 foot x 2 inch x 1/2 inch deep) with vegetation growth	3	31	31	Square Feet
☑ **510**	Crack (Wearing Surface)	WEARING SURFACE HAS SCATTERED TRANSVERSE AND LONGITUDINAL CRACKS UP TO 1/8 INCH	3	400	400	Square Feet

General Comments

Span 5 — Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	53	52	0	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Patched Area	at far end of right sidewalk, partially sound patch [14 inch x 16 inch]	3	1	1	Square Feet

General Comments

Span 5 — Beam 1

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	52	28	20	4	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **110**	Delamination/Spall	4 FOOT X 10 INCH X 1/2 INCH DEEP FAILED PATCH WITH EXPOSED REINFORCING, IN BENT 4 DIAPHRAGM, BAY 1.	3	1	4	Feet
☑ **110**	Delamination/Spall	at bent 4, underside, (2) spalls/delaminations (1 foot x 3 inch x 1/2 inch deep) with exposed rusted rebar	3	1	1	Feet
☑ **110**	Patched Area	WEST FACE AT BENT 4 HAS A PATCHED AREA (2 FOOT X FULL HEIGHT) THAT IS CRACKED (UP TO 1/32 INCH)	3	2	2	Feet
☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH, AT RANDOM THROUGHOUT.	2	20		Feet

General Comments

Span 5 — Beam 2

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	52	34	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH, AT RANDOM THROUGHOUT.	2	18		Feet

General Comments

Span 5 — Beam 3

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	52	38	12	1	1	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **110**	Exposed Rebar	(PAR) at bent 4, west face, spall/delamination (5 inch x 2 foot x 4 inch deep) with exposed rusted rebar (approximately 25 percent loss)	4	1	1	Feet

☑ **110**	Delamination/Spall	East face over bent 4, delamination [16 inch x 8 inch] with cracks (up to 1/8 inch)	3			Feet
☑ **110**	Patched Area	4 FOOT X 8 INCH X 8 INCH CRACKED PATCHED AREA, IN BENT 4 DIAPHRAGM, BAY 3.	3	1	4	Feet
☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH AT RANDOM THROUGHOUT.	2	12		Feet

General Comments

Span 5 Beam 4

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	52	18	25	3	6	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **110**	Exposed Rebar	(PAR) at bent 4, west face and underside, spall/delamination (6 foot x full width x up to 6 inch x 1.5 inch deep) with exposed rusted rebar (approximately 25 percent loss)	4	6	6	Feet
☑ **110**	Patched Area	2023 previously repaired with patch (3.5 foot x 2.5 foot) with map cracks (up to 1/32 inch), previously noted as: lower East face at 12 foot from end bent 2, spall [40 inch long x 26 inch high x up 5 inch deep] with exposed primary rebar and stirrups, section loss on rebar [up to 1/16 inch]	3	3	3	Feet
☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH AT RANDOM THROUGHOUT.	2	25		Feet

General Comments

Span 5 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 5 Far Bearing 1

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	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 5 — 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	0	1	Square Feet

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

General Comments

Span 5 — 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 5 — 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 5 — 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	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 5 — 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 1/8 inch loss]	3	1	1	Each
☑ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 5 — Far Bearing 4

Fixed Bearing

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

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

General Comments

Span 5 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,470	1,239	0	231	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 510	Crack (Wearing Surface)	30 FOOT X UP TO 1/4 INCH TRANSVERSE CRACK OVER END BENT 2.	3	31	31	Square Feet

☑ **510**	Crack (Wearing Surface)	WEARING SURFACE HAS SCATTERED TRANSVERSE AND LONGITUDINAL CRACKS UP TO 1/8 INCH	3	200	200	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	45	45	0	0	0	Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐	**215**	Cracking (RC and Other)	DEFECT NOT FOUND 8-21-2019	1			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	40	40	0	0	0	Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐	**234**	Cracking (RC and Other)	DEFECT NOT FOUND 8-21-2019	1			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	32	3	0	0	29	Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**234**	Exposed Rebar	(PAR) along north and south faces, multiple spalls/delaminations (up to 16 foot x full height x 2.5 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (1/8 inch) at random	4	28	28	Feet
☑	**234**	Exposed Rebar	(PAR) east face, spall/delamination (12 inch x 6 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)	4	1	1	Feet
☑	**234**	Delamination/Spall	underside of cap near column 2, (2) spall/delamination (2 foot x 16 inch x 1/2 inch deep) with cracks (up to 1/16 inch)	2		3	Feet
☑	**234**	Cracking (RC and Other)	(combined with other notes 2023) at South and North faces under bay 1., multiple horizontal cracks [up to 8 foot x 1/32 inch]	1			Feet
☑	**234**	Delamination/Spall	(combined with other notes 2023) at Southwest corner, delamination [10 inch x 20 inch]	1			Feet

☑ **234**	Delamination/Spall	(COMBINED WITH OTHER NOTES 2023) BENT 1 CAP SOUTH FACE HAS A CRACK AND DELAMINATED AREA WITH SOME SCATTERED SPALLS UP TO 1/2 INCH DEEP. AREA BEGINS: MID-BAY 2 AND EXTENDS TO MID-BAY 3. AREA IS: FROM TOP EDGE DOWN 9 INCH UP TO 42 INCH X 115 INCH.	1		Feet
☑ **234**	Delamination/Spall	(COMBINED WITH OTHER NOTES 2023) BENT 1 CAP SOUTH FACE UNDER BEAM 2. HAS A CRACKED UP TO 1/32 INCH AND DELAMINATED AREA. AREA IS: 18 INCH X 23 INCH	1		Feet
☑ **234**	Delamination/Spall	(COMBINED WITH OTHER NOTES 2023) BENT 1 CAP SOUTH FACE UNDER BEAM 4. HAS A CRACK AND DELAMINATED AREA. AREA IS: 24 INCH X 40 INCH	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)	northwest, northeast and southwest corners, delaminations (up to full height x 16 inch) with cracks (up to 1/8 inch)	3	1	1	Each
☑ **205**	Cracking (RC and Other)	along column, vertical cracks (up to 1/32 inch x full height) at random	2			Each
☐ **205**	Cracking (RC and Other)	DUPLICATE DEFECT 8-21-2019	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)	at Southwest corner, delamination [full height x 12 inch] with cracks (up to 1/8 inch)	3	1	1	Each
☑ **205**	Cracking (RC and Other)	UP TO 4 FOOT X UP TO 1/32 INCH VERTICAL CRACKS, AT RANDOM THROUGHOUT.	2			Each
☑ **205**	Cracking (RC and Other)	(combined with other notes 2023) North face under haunch, area of hairline map cracking [18 inch x full width]	1			Each

General Comments

Structure Number: **110064** Inspection Date: **08/09/2023**

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	45	45	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐ **215**	Cracking (RC and Other)	DEFECT NOT FOUND 8-21-2019	1			Feet

General Comments

End Bent 2 — Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	40	27	0	3	10	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Exposed Rebar	(PAR) top of South face at bay 3, spall/delamination [10 foot x full height x full width x up to 3 inch deep] with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/18 inch)	4	10	10	Feet
☑ **234**	Cracking (RC and Other)	in bay 1, horizontal crack (1/8 inch x 2.5 foot)	3	3	3	Feet

General Comments

Bent 2 — Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	32	9	0	1	22	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Exposed Rebar	(PAR) South face at East end, spall/delamination [84 inch long x up to full height x up to 3 inch deep] with exposed rusted rebar and stirrups [rebar and stirrups with approximately 25 percent loss] and cracks [up to 1/8 inch]	4	8	8	Feet
☑ **234**	Exposed Rebar	(PAR) underside of cap between columns, spall/delamination [14 foot long x full width x up to 4 inch deep] that extends onto south face [13 inch] with exposed rusted rebar and stirrups [rebars with approximately 25 percent loss; stirrups up to 100 percent loss]	4	14	14	Feet
☑ **234**	Delamination/Spall	9 INCH X 12 INCH X 2 INCH DEEP SPALL WITH EXPOSED REINFORCING ON NORTHEAST CORNER, NO LOSS NOTED ON REBAR	3		1	Feet
☑ **234**	Efflorescence/Rust Staining	(PAR) (2)- UP TO 10 FOOT X 1/16 INCH HORIZONTAL CRACKS WITH RUST STAINS, SOUTH FACE, UNDER BAYS 2 AND 3.	3		10	Feet
☑ **234**	Efflorescence/Rust Staining	(PAR) southwest corner, spall/delamination (18 inch x 6 inch x 1 inch deep) with exposed rusted rebar and adjacent map cracks (up to 1/32 inch) with rust stains	3	1	1	Feet

☑ **234**	Delamination/Spall	(COMBINED WITH OTHER NOTES 2023) LOWER SOUTH FACE BETWEEN COLUMNS, SPALL/DELAMINATION [14 FOOT LONG X UP TO 15 FOOT HIGH X UP TO 2 INCH DEEP] WITH EXPOSED PRIMARY REBAR AND STIRRUPS, SECTION LOSS ON PRIMARY REBAR [UP TO 1/8 INCH] AND LOSS ON STIRRUPS [UP TO 50 PERCENT]	1		Feet
☐ **234**	Delamination/Spall	DUPLICATE DEFECT 8-21-2019	1		Feet

General Comments

Bent 2 — Pile 1

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Cracking (RC and Other)	UP TO 4 FOOT X UP TO 1/32 INCH VERTICAL CRACKS, AT RANDOM THROUGHOUT.	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)	UP TO 5 FOOT X UP TO 1/16 INCH VERTICAL CRACKS, AT RANDOM THROUGHOUT, BEGINNING AT BOTTOM OF CAP.	3	1	1	Each
☑ **205**	Delamination/Spall	Southeast corner at corbel, delamination [54 inch x 20 inch] with cracks [up to 1/16 inch]	2		4	Each

General Comments

Bent 3 — Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	32	22	0	10	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Efflorescence/Rust Staining	(PAR) BENT 3 CAP HAS SCATTERED CRACKS UP TO 1/16 INCH SOME WITH ADJACENT DELAMINATION (UP TO 7 FOOT X 1.5 FOOT) AND RUST STAINS.	3	10	10	Feet
☑ **234**	Delamination/Spall	(combined with other notes 2023) at bottom corner of South face below beam 3, delamination [7 foot x 8 inch] with rust stain	1			Feet
☑ **234**	Delamination/Spall	(combined with other notes 2023) at top corner of South face below beam 3, delamination [3 foot x 6 inch]	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**	Cracking (RC and Other)	UP TO 5 FOOT X UP TO 1/16 INCH VERTICAL CRACKS, AT RANDOM THROUGHOUT.	3		1	Each
☑ **205**	Exposed Rebar	(PAR) 6 INCH DIAMETER X 1/2 INCH SPALL WITH EXPOSED REINFORCING (APPROXIMATELY 10 PERCENT LOSS) ON EAST FACE NEAR GROUNDLINE.	3	1	1	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	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Cracking (RC and Other)	UP TO 8 FOOT X UP TO 1/32 INCH VERTICAL CRACKS, AT RANDOM THROUGHOUT.	2	1		Each

General Comments

Bent 4 Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	32	2	2	28	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Cracking (RC and Other)	BENT 4 CAP HAS SCATTERED VERTICAL AND LONGITUDINAL CRACKS UP TO 1/16 INCH	3	15	15	Feet
☑ **234**	Efflorescence/Rust Staining	(PAR) underside of cap between columns 1 and 2, longitudinal cracks (up to 1/16 inch x 4 foot) some with rust stains and adjacent delaminations (up to 8 foot x full width)	3	10	10	Feet
☑ **234**	Efflorescence/Rust Staining	(PAR) west face at bottom corner, map cracks (up to 1/32 inch) with rust stains	3	1	1	Feet
☑ **234**	Patched Area	2 FOOT X 2 FOOT UNSOUND PATCH, NORTH FACE, UNDER BAY 3.	3	2	2	Feet
☑ **234**	Patched Area	WEST FACE HAS A PATCHED AREA (3 FOOT X 2 FOOT) WITH HAIRLINE MAP CRACKING. PATCH APPEARS TO BE SOUND.	3		3	Feet
☑ **234**	Delamination/Spall	NORTH FACE BAY 2. HAS A CRACKED AND DELAMINATED AREA [UP TO FULL HEIGHT X 5.5 FOOT]	2		6	Feet
☑ **234**	Delamination/Spall	North face of cap under beam 1, delamination [14 inch x 18 inch]	2	1	1	Feet

☑ **234**	Delamination/Spall	North face under bay 3, delamination [14 inch x 15 inch]	2	1	1	Feet	
☑ **234**	Delamination/Spall	(not found 2023) North face under beam 4, delamination/spall [up to 15 inch x 17 inch x 1/4 inch deep]	1			Feet	

General Comments

Bent 4 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)	UP TO 10 FOOT X UP TO 1/16 INCH VERTICAL CRACKS, AT RANDOM THROUGHOUT.	3	1	1	Each

General Comments

Bent 4 Pile 2

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Cracking (RC and Other)	UP TO 4 FOOT X UP TO 1/32 INCH VERTICAL CRACKS, AT RANDOM THROUGHOUT.	2	1		Each

General Comments

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1134
Span 1	Beam 1	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	35
Span 1	Beam 2	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	35
Span 1	Beam 3	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	35
Span 1	Beam 4	Reinforced Concrete Girder	Reinforced Concrete 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	1008
Span 1	Near Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing 1	Movable Bearing	Movable Bearing	1
Span 1	Far Bearing 2	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 1	Near Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing 3	Movable Bearing	Movable Bearing	1
Span 1	Far Bearing 4	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1134
Span 2	Beam 1	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	36
Span 2	Beam 2	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	36
Span 2	Beam 3	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	36
Span 2	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	36
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	36
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	36
Span 2	Bent 1 Expansion Joint	Standard Joint	Pourable Joint Seal	31
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1008
Span 2	Near Bearing 1	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 2	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 3	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 4	Movable Bearing	Movable Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1780
Span 3	Beam 1	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	57
Span 3	Beam 2	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	57
Span 3	Beam 3	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	57
Span 3	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	57
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	57
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	57
Span 3	Bent 2 Expansion Joint	Standard Joint	Pourable Joint Seal	31
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1582
Span 3	Near Bearing 1	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing 2	Fixed Bearing	Fixed Bearing	1

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 3	Near Bearing 2	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing 3	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing 4	Movable Bearing	Movable Bearing	1
Span 3	Route Marker Sign	Other warning sign	Other Warning Signs	1
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1780
Span 4	Beam 1	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	57
Span 4	Beam 2	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	57
Span 4	Beam 3	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	57
Span 4	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	57
Span 4	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	57
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	57
Span 4	Bent 3 Expansion Joint	Standard Joint	Pourable Joint Seal	31
Span 4	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1582
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	Route Marker Sign	Other warning sign	Other Warning Signs	1
Span 5	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1654
Span 5	Beam 1	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 5	Beam 2	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 5	Beam 3	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 5	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 5	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 5	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 5		Standard Joint	Pourable Joint Seal	0
Span 5	Bnet 4 Expansion Joint	Standard Joint	Pourable Joint Seal	31
Span 5	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1470
Span 5	Near Bearing 1	Movable Bearing	Movable Bearing	1
Span 5	Far Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 5	Far Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 5	Near Bearing 2	Movable Bearing	Movable Bearing	1
Span 5	Near Bearing 3	Movable Bearing	Movable Bearing	1
Span 5	Far Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 5	Far Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 5	Near Bearing 4	Movable Bearing	Movable Bearing	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	32
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1

Elements Verfied

Location	Name	Component	Element Name	Amount
Bent 1	Footing	Reinforced Concrete Footing	Reinforced Concrete Pile Cap/Footing	9
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	40
End Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	45
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	32
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	40
End Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 2	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 2	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	45
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	32
Bent 3	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 4	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	32
Bent 4	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 4	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1

General Inspection Notes

Span 2 Bent 1 Expansion Joint

COVERED BY ASPHALT WEARING SURFACE.

Span 3 Bent 2 Expansion Joint

COVERED BY ASPHALT WEARING SURFACE.

Span 4 Bent 3 Expansion Joint

COVERED BY ASPHALT WEARING SURFACE.

Span 5 Bnet 4 Expansion Joint

COVERED BY ASPHALT WEARING SURFACE.

National Bridge and NC Inspection Items

Structure Number: 110064 **Inspection Date:** 08/09/2023

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	**7**
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**	**7482**	**3376**
Drainage System	G, F, P, or C	**P**	**0**	**3332**
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	**F**	**100**	**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				

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	**13**
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: 110064 **Inspection Date:** 08/09/2023

Item	Deck Debris	**Grade**	P	**Maint Code**	3376	**Qty.**	7482
Details	along curblines, debris accumulation (up to 1 foot x full length) with vegetation growth; partially obstructing drainage						

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

Item	Slope Protection	**Grade**	F	**Maint Code**	3352	**Qty.**	100
Details	end bent 1 slope protection below bay 2, section misaligned/settled (up to 2 inch)						

Item	General Comments and Misc Items	**Grade**		**Maint Code**		**Qty.**	0

Details (PAR) northeast guardrail, 3rd and 12th timber posts from end bent 2, decay/section loss (up to full width x full height x full depth)

(PAR) northwest guardrail, 1st timber spacer from end bent 2, decay/section loss (full height x 3 inch x 3 inch deep)

(PAR) southeast guardrail, 9th timber spacer from end bent 1, missing

(PAR) southwest guardrail, 13th timber post from end bent 1, decay/section loss (up to full width x full height x full depth)

(PAR) northeast guardrail, 3rd and 12th timber posts from end bent 2, decay/section loss (up to full width x full height x full depth)

(PAR) northeast guardrail, 3rd and 12th timber posts from end bent 2, decay/section loss (up to full width x full height x full depth)

along curblines, debris accumulation (up to 1 foot x full length) with vegetation growth; partially obstructing drainage

Span 5 Wearing Surface: 30 FOOT X UP TO 1/4 INCH TRANSVERSE CRACK OVER END BENT 2.

Span 5 Wearing Surface: WEARING SURFACE HAS SCATTERED TRANSVERSE AND LONGITUDINAL CRACKS UP TO 1/8 INCH

Span 5 Right Bridge Rail: at far end of right sidewalk, partially sound patch [14 inch x 16 inch]

(PAR) northwest guardrail, 1st timber spacer from end bent 2, decay/section loss (full height x 3 inch x 3 inch deep)

Span 4 Wearing Surface: over bent 4, partially sealed transverse crack (1/8 inch x full width) with edge spalling (up to 2 foot x 2 inch x 1/2 inch deep) with vegetation growth

Span 4 Wearing Surface: over bent 4, partially sealed transverse crack (1/8 inch x full width) with edge spalling (up to 2 foot x 2 inch x 1/2 inch deep) with vegetation growth

Span 4 Wearing Surface: WEARING SURFACE HAS SCATTERED TRANSVERSE AND LONGITUDINAL CRACKS UP TO 1/8 INCH

Span 3 Wearing Surface: over bent 3, partially sealed transverse crack (1/8 inch x full width) with edge spalling (up to 2 foot x 2 inch x 1/2 inch deep) with vegetation growth

Span 2 Wearing Surface: over bent 2, partially sealed transverse crack (1/8 inch x full width) with edge spalling (up to 3 foot x 5 inch x 1/2 inch deep) with vegetation growth

Span 2 Right Bridge Rail: (NOT FOUND 2023) RIGHT RAIL HAS SCATTERED MAP CRACKING UP TO 1/64 INCH

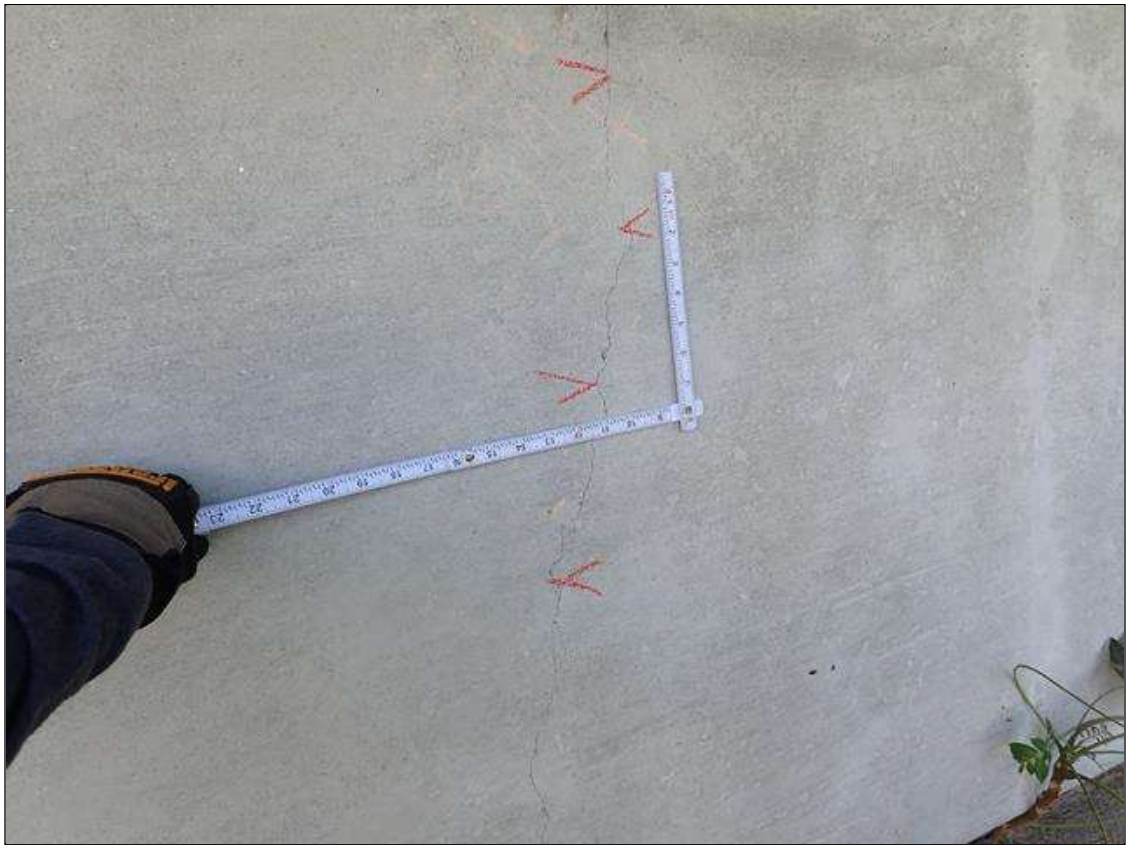
Span 2 Left Bridge Rail: (NOT FOUND 2023) LEFT RAIL HAS SCATTERED MAP CRACKING UP TO 1/64 INCH

(PAR) southeast guardrail, 9th timber spacer from end bent 1, missing

(PAR) southwest guardrail, 13th timber post from end bent 1, decay/section loss (up to full width x full height x full depth)

Span 1 Near Bearing 1: SURFACE RUST

Span 1 Deck: (PAR) west overhang 10 foot from end bent 1, spall (5 inch x 5 inch x 1/2 inch deep) with exposed rusted rebar



Span 1 Beam 1: along the length of the beam, vertical cracks (up to 1/32 inch x full height) at random

Span 1 Beam 1: (PAR) at bent 1, west face and underside, (2) spalls/delamination (up to 2.5 foot x 2 foot x 2 inch deep) with exposed rusted rebar (approximately 25 percent loss)

Span 1 Beam 1: (PAR) at bent 1, west face and underside, (2) spalls/delamination (up to 2.5 foot x 2 foot x 2 inch deep) with exposed rusted rebar (approximately 25 percent loss)

Span 1 Beam 1: at bent 1, east face, delamination (26 inch x 6 inch) with cracks (up to 1/2 inch)

Span 1 Far Bearing 1: corrosion with section loss [up to 1/16 inch loss]

Span 1 Near Bearing 2: freckled rust

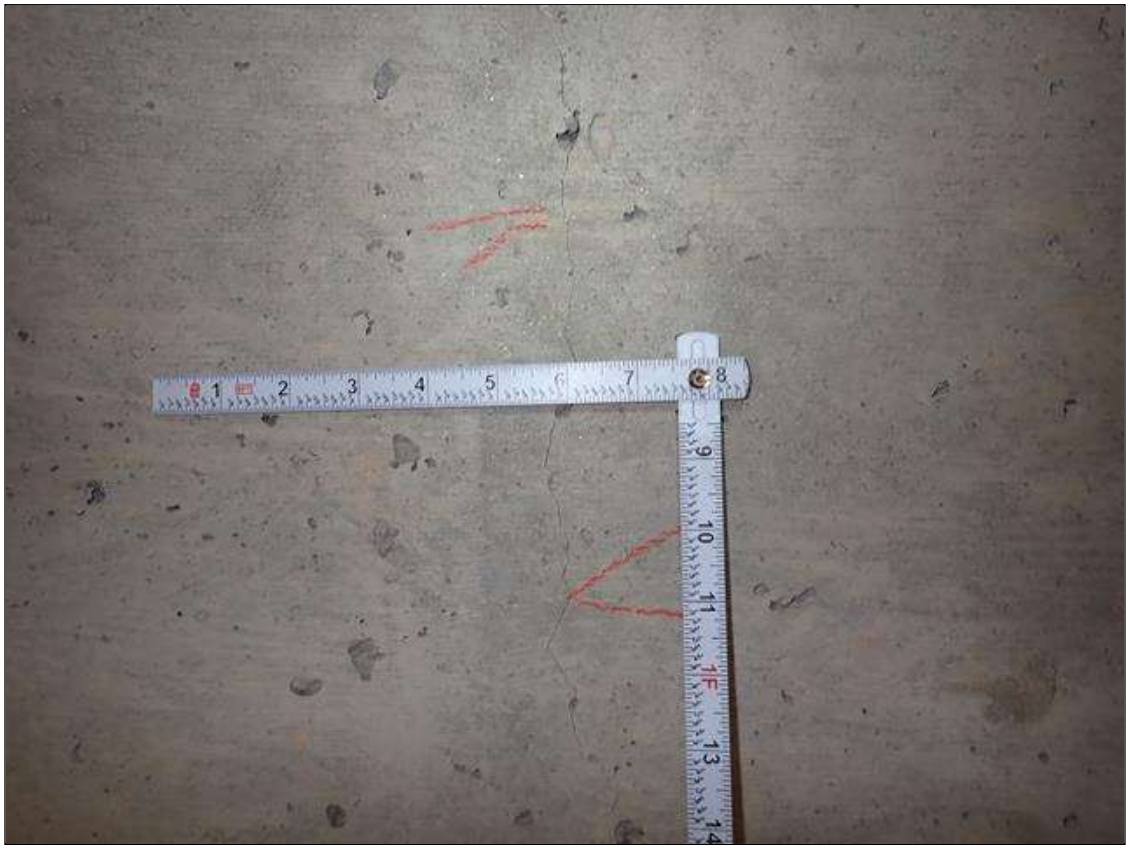
Span 1 Beam 3: (PAR) West face at far end, diagonal crack [18 inch x 1/32 inch] with rust stain

Span 1 Beam 3: along far half of beam, vertical/diagonal cracks (up to 1/64 inch x full height)

Span 1 Beam 4: (PAR) at bent 1, west and east faces and underside, multiple spalls/delaminations (up to 8 inch x 12 inch x 1/2 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch)

Span 1 Beam 4: (PAR) at bent 1, west and east faces and underside, multiple spalls/delaminations (up to 8 inch x 12 inch x 1/2 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch)

Span 1 Beam 4: (PAR) at bent 1, west and east faces and underside, multiple spalls/delaminations (up to 8 inch x 12 inch x 1/2 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch)



Span 1 Beam 4: along the length of the beam, vertical cracks (up to 1/64 inch x full height) at random

Bent 1 Cap 1: (PAR) along north and south faces, multiple spalls/delaminations (up to 16 foot x full height x 2.5 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (1/8 inch) at random

Bent 1 Cap 1: (PAR) along north and south faces, multiple spalls/delaminations (up to 16 foot x full height x 2.5 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (1/8 inch) at random

Bent 1 Cap 1: (PAR) along north and south faces, multiple spalls/delaminations (up to 16 foot x full height x 2.5 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (1/8 inch) at random

Bent 1 Cap 1: (PAR) along north and south faces, multiple spalls/delaminations (up to 16 foot x full height x 2.5 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (1/8 inch) at random

Bent 1 Cap 1: (PAR) east face, spall/delamination (12 inch x 6 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)

Bent 1 Cap 1: underside of cap near column 2, (2) spall/delamination (2 foot x 16 inch x 1/2 inch deep) with cracks (up to 1/16 inch)

Bent 1 Pile 2: at Southwest corner, delamination [full height x 12 inch] with cracks (up to 1/8 inch)

Bent 1 Pile 2: UP TO 4 FOOT X UP TO 1/32 INCH VERTICAL CRACKS, AT RANDOM THROUGHOUT.

Bent 1 Pile 1: northwest, northeast and southwest corners, delaminations (up to full height x 16 inch) with cracks (up to 1/8 inch)

Span 2 Beam 1: (PAR) at bents 1 and 2, bay 1 end diaphragm, spalls/delaminations (up to full length x up to full height x 3 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch) with rust stains

Span 2 Beam 1: (PAR) East face at near end, vertical crack [10 inch x 1/32 inch] with rust stain

Span 2 Beam 1: (PAR) West face at near end, longitudinal crack [4 foot x 1/32 inch] and diagonal crack [full height x 1/32 inch] with rust stain and efflorescence

Span 2 Beam 2: East face at near end, delamination/spall [10 inch x 15 inch x up to 1/2 inch deep] with exposed rusted rebar

Span 2 Beam 2: at bents 1 and 2, bay 2 end diaphragm, delaminations (up to full length x full width) with cracks (up to 1/8 inch)

Span 2 Beam 3: (PAR) at bents 1 and 2, bay 3 end diaphragm, spalls/delaminations (up to full length x 8 inch x 1.5 deep) with exposed rusted rebar (approximately 25 percent loss)

Span 2 Deck: (PAR) over bent 1, east overhang, spall (4 inch diameter x 1/2 inch deep) with exposed rusted rebar (approximately 25 percent loss)

Span 2 Beam 4: (PAR) near bent 1, delamination (4 foot x 8 inch) and cracks (up to 1/16) with rust stains

end bent 1 slope protection below bay 2, section misaligned/settled (up to 2 inch)

end bent 1 slope protection below bay 2, section misaligned/settled (up to 2 inch)

Span 2 Beam 1: (PAR) at bent 2, west face and underside, multiple spalls/delaminations (2 foot x 32 inch x 2.5 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch)

Span 2 Beam 1: (PAR) at bent 2, west face and underside, multiple spalls/delaminations (2 foot x 32 inch x 2.5 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch)

Span 2 Beam 1 - Far Bearing 1: corrosion with section loss [up to 1/8 inch loss]

Span 2 Beam 2: West and east faces over bent 2, spalls/delaminations [up to 30 inch high x 7 inch wide x 3 inch deep] with cracks (up to 1/8 inch)

Span 3 Beam 1: at bent 2, east face at top, delamination (12 inch x 4 inch)

Bent 2 Cap 1: (PAR) southwest corner, spall/delamination (18 inch x 6 inch x 1 inch deep) with exposed rusted rebar and adjacent map cracks (up to 1/32 inch) with rust stains

Bent 2 Cap 1: (PAR) southwest corner, spall/delamination (18 inch x 6 inch x 1 inch deep) with exposed rusted rebar and adjacent map cracks (up to 1/32 inch) with rust stains

Bent 2 Cap 1: (PAR) underside of cap between columns, spall/delamination [14 foot long x full width x up to 4 inch deep] that extends onto south face [13 inch] with exposed rusted rebar and stirrups [rebars with approximately 25 percent loss; stirrups up to 100 percent loss]

Bent 2 Cap 1: (PAR) underside of cap between columns, spall/delamination [14 foot long x full width x up to 4 inch deep] that extends onto south face [13 inch] with exposed rusted rebar and stirrups [rebars with approximately 25 percent loss; stirrups up to 100 percent loss]

Bent 2 Cap 1: (PAR) underside of cap between columns, spall/delamination [14 foot long x full width x up to 4 inch deep] that extends onto south face [13 inch] with exposed rusted rebar and stirrups [rebars with approximately 25 percent loss; stirrups up to 100 percent loss]

Bent 2 Cap 1: (PAR) (2)- UP TO 10 FOOT X 1/16 INCH HORIZONTAL CRACKS WITH RUST STAINS, SOUTH FACE, UNDER BAYS 2 AND 3.

Span 2 Beam 2: West and east faces over bent 2, spalls/delaminations [up to 30 inch high x 7 inch wide x 3 inch deep] with cracks (up to 1/8 inch)

Span 2 Beam 3: at bent 2, underside, (2) spalls/delaminations (up to 1 foot x 6 inch x 1/2 inch deep) with exposed rusted rebar

Span 3 Beam 3: at bent 2, west face, delamination (2 inch x 1 foot) with cracks (up to 1/8 inch)

Bent 2 Cap 1: (PAR) South face at East end, spall/delamination [84 inch long x up to full height x up to 3 inch deep] with exposed rusted rebar and stirrups [rebar and stirrups with approximately 25 percent loss] and cracks [up to 1/8 inch]

Bent 2 Cap 1: (PAR) South face at East end, spall/delamination [84 inch long x up to full height x up to 3 inch deep] with exposed rusted rebar and stirrups [rebar and stirrups with approximately 25 percent loss] and cracks [up to 1/8 inch]

Bent 2 Cap 1: (PAR) South face at East end, spall/delamination [84 inch long x up to full height x up to 3 inch deep] with exposed rusted rebar and stirrups [rebar and stirrups with approximately 25 percent loss] and cracks [up to 1/8 inch]

Span 2 Beam 4: TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH, AT RANDOM THROUGHOUT.

Span 3 Beam 3: (PAR) East face over bent 2, (3) spalls/delaminations [up to 17 inch long x 24 inch high x up to 2 inch deep] with exposed rusted rebar [approximately 25 percent loss] and cracks [up to 1/16 inch]

Span 3 Beam 4: (PAR) West face at near end, delamination [11 foot long x up to 9 inch high] with associated 1/2 inch crack, delamination extends to right Eastbound lane of I-40 below

Span 2 Beam 4: (PAR) at bent 2, west and east faces and underside, multiple spalls/delaminations (up to 18 inch x 8 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)

Span 2 Beam 4: (PAR) at bent 2, west and east faces and underside, multiple spalls/delaminations (up to 18 inch x 8 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)

Span 3 Beam 4: EAST FACE OVER BENT 2. HAS A SPALL WITH ADJACENT DELAMINATED AREA 7 INCH FROM END OF BEAM. AREA IS: 10 INCH X 30 INCH X 1/2 INCH DEEP.

Span 3 Beam 4: EAST FACE. HAS (2) AREAS THAT ARE SPALLED WITH REBAR EXPOSED. LOCATED 38 INCH FROM END OF BEAM OVER BENT 2. AREAS ARE: UP TO 8 INCH X 14 INCH X 3/4 INCH DEEP.

Bent 2 Cap 1: 9 INCH X 12 INCH X 2 INCH DEEP SPALL WITH EXPOSED REINFORCING ON NORTHEAST CORNER, NO LOSS NOTED ON REBAR

Bent 2 Pile 2: Southeast corner at corbel, delamination [54 inch x 20 inch] with cracks [up to 1/16 inch]

Bent 2 Pile 2: UP TO 5 FOOT X UP TO 1/16 INCH VERTICAL CRACKS, AT RANDOM THROUGHOUT, BEGINNING AT BOTTOM OF CAP.

Span 3 Beam 1: (PAR) at bents 2 and 3, bay 1 end diaphragms, spalls/delaminations (up to full length x full height x up to 1.5 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch)

Span 3 Beam 2: at bents 2 and 3, bay 2 end diaphragms, spalls/delaminations (up to full length x full height) and cracks (up to 1/8 inch)

Span 4 Beam 1: (PAR) at bents 3 and 4, bay 1 end diaphragms, spalls/delaminations (up to full length x full height x up to 1.5 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch) and rust stains

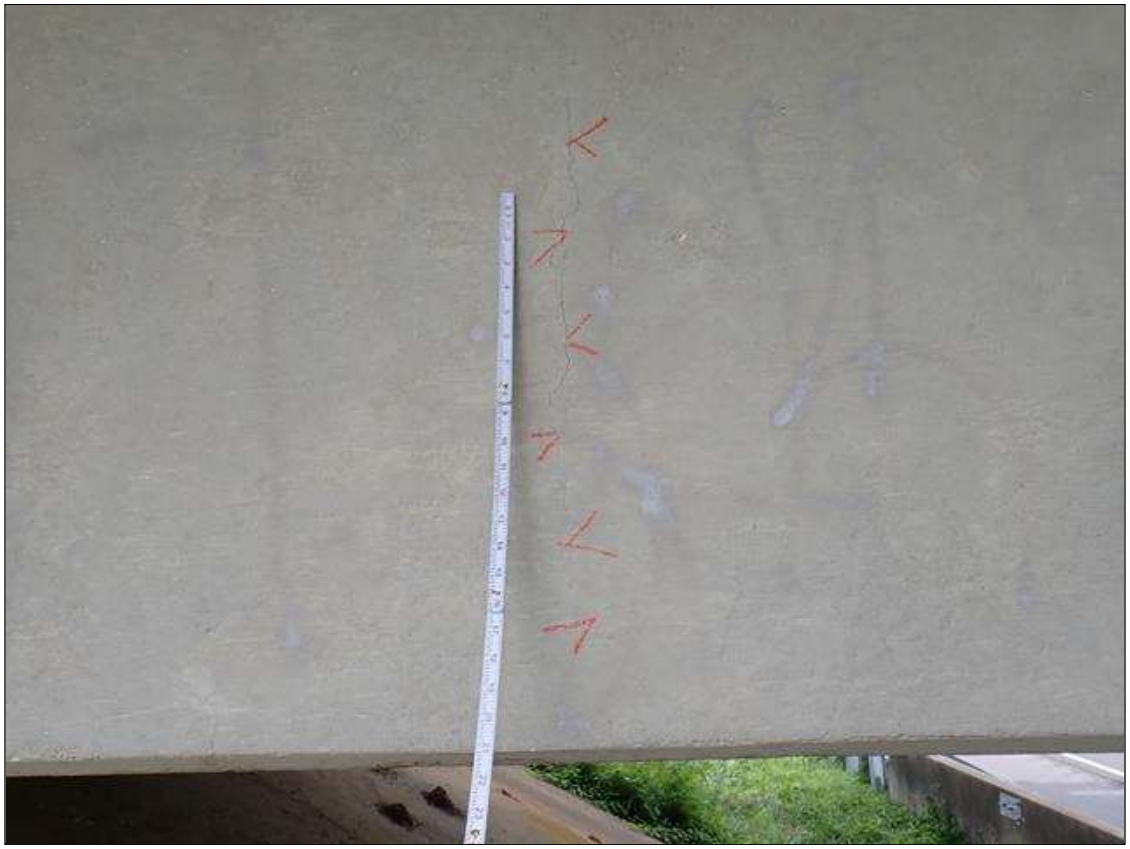
Span 4 Beam 2: (PAR) at bents 3 and 4, bay 2 end diaphragms, spalls/delaminations (up to full length x full height x up to 1.5 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch) with rust stains

Span 4 Beam 4: EAST FACE AND BOTTOM OVER WEST BOUND RIGHT LANE. (2) 8 INCH LONG X 6 INCH X 1.5 INCH DEEP SPALLS IN MID-SPAN FROM PREVIOUS IMPACT DAMAGE.

Span 4 Route Marker Sign: (PAR) route sign, missing

Span 5 Beam 3: 4 FOOT X 8 INCH X 8 INCH CRACKED PATCHED AREA, IN BENT 4 DIAPHRAGM, BAY 3.

Span 5 Beam 1: 4 FOOT X 10 INCH X 1/2 INCH DEEP FAILED PATCH WITH EXPOSED REINFORCING, IN BENT 4 DIAPHRAGM, BAY 1.



Span 5 Beam 1: TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH, AT RANDOM THROUGHOUT.

Span 5 Far Bearing 1: rust scale

End Bent 2 Cap 1: (PAR) top of South face at bay 3, spall/delamination [10 foot x full height x full width x up to 3 inch deep] with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/18 inch)

Span 5 Far Bearing 4: corrosion with section loss [up to 3/16 inch loss]

End Bent 2 Cap 1: (PAR) top of South face at bay 3, spall/delamination [10 foot x full height x full width x up to 3 inch deep] with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/18 inch)

Span 5 Beam 4: 2023 previously repaired with patch (3.5 foot x 2.5 foot) with map cracks (up to 1/32 inch), previously noted as: lower East face at 12 foot from end bent 2, spall [40 inch long x 26 inch high x up 5 inch deep] with exposed primary rebar and stirrups, section loss on rebar [up to 1/16 inch]

End Bent 2 Cap 1: in bay 1, horizontal crack (1/8 inch x 2.5 foot)

Span 4 Beam 1: (PAR) at bent 3, east face and underside, spalls/delaminations (up to 6 foot x 18 inch x 2 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/16 inch)

Span 4 Beam 1: (PAR) at bent 3, east face and underside, spalls/delaminations (up to 6 foot x 18 inch x 2 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/16 inch)

Bent 3 Cap 1: (PAR) BENT 3 CAP HAS SCATTERED CRACKS UP TO 1/16 INCH SOME WITH ADJACENT DELAMINATION (UP TO 7 FOOT X 1.5 FOOT) AND RUST STAINS.

Bent 3 Cap 1: (PAR) BENT 3 CAP HAS SCATTERED CRACKS UP TO 1/16 INCH SOME WITH ADJACENT DELAMINATION (UP TO 7 FOOT X 1.5 FOOT) AND RUST STAINS.

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

Span 3 Beam 2: TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/32 INCH, AT RANDOM THROUGHOUT.

Span 3 Beam 2: near bent 3, west face, (3) delaminations (8 inch diameter) with cracks (up to 1/32 inch)

Span 3 Beam 3: (PAR) at bent 3, west face, spall/delamination (11 inch x 11 inch x 1/2 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/32 inch)

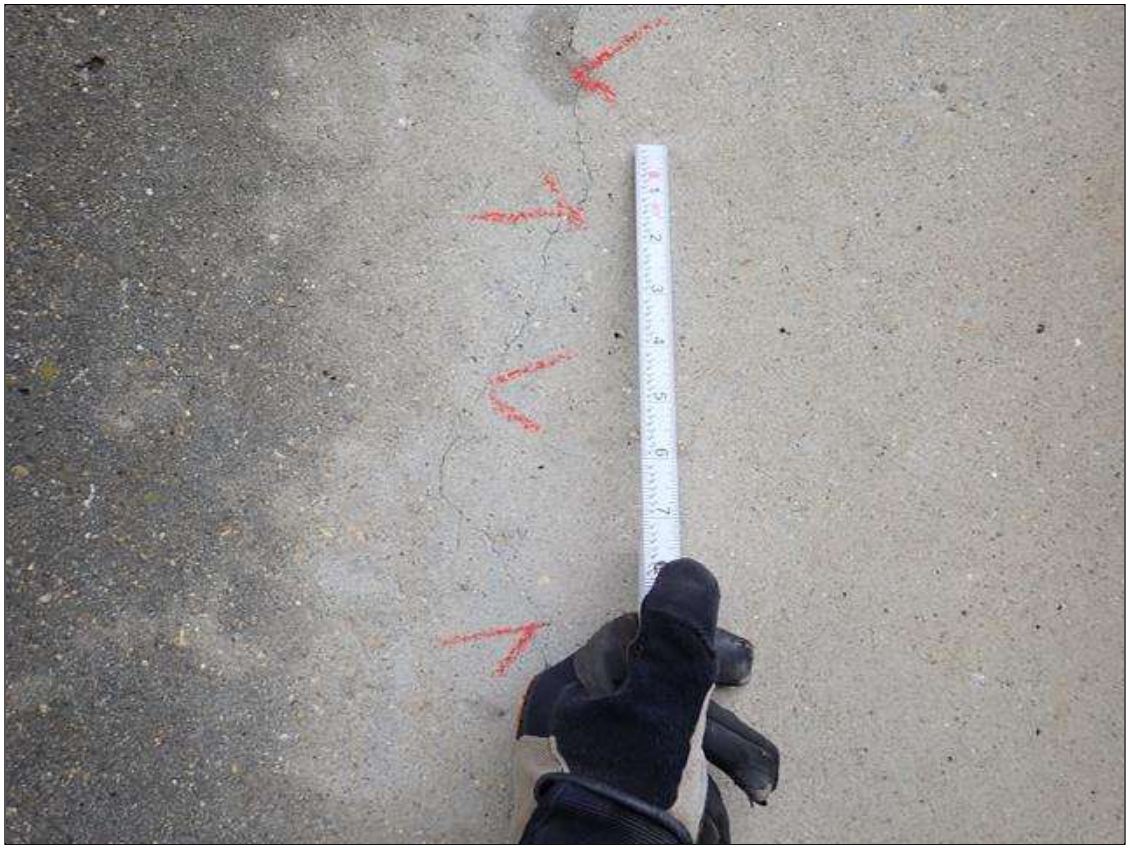
Span 4 Beam 3: near bent 3, west and east faces, longitudinal cracks (up to 1/32 inch x 2 foot)

Span 3 Beam 4: (PAR) at bent 3, west face, (2) spalls/delaminations (1 foot x 30 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/32 inch)

Span 4 Beam 4: (PAR) at bent 3, east face, spall/delamination (43 inch x 43 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/32 inch)

Span 4 Beam 4: (PAR) AT BENT 3, (2) UP TO 7 FOOT X 1/32 INCH LONGITUDINAL CRACKS, ON BOTTOM AND WEST FACES WITH EFFLORESCENCE AND RUST STAIN

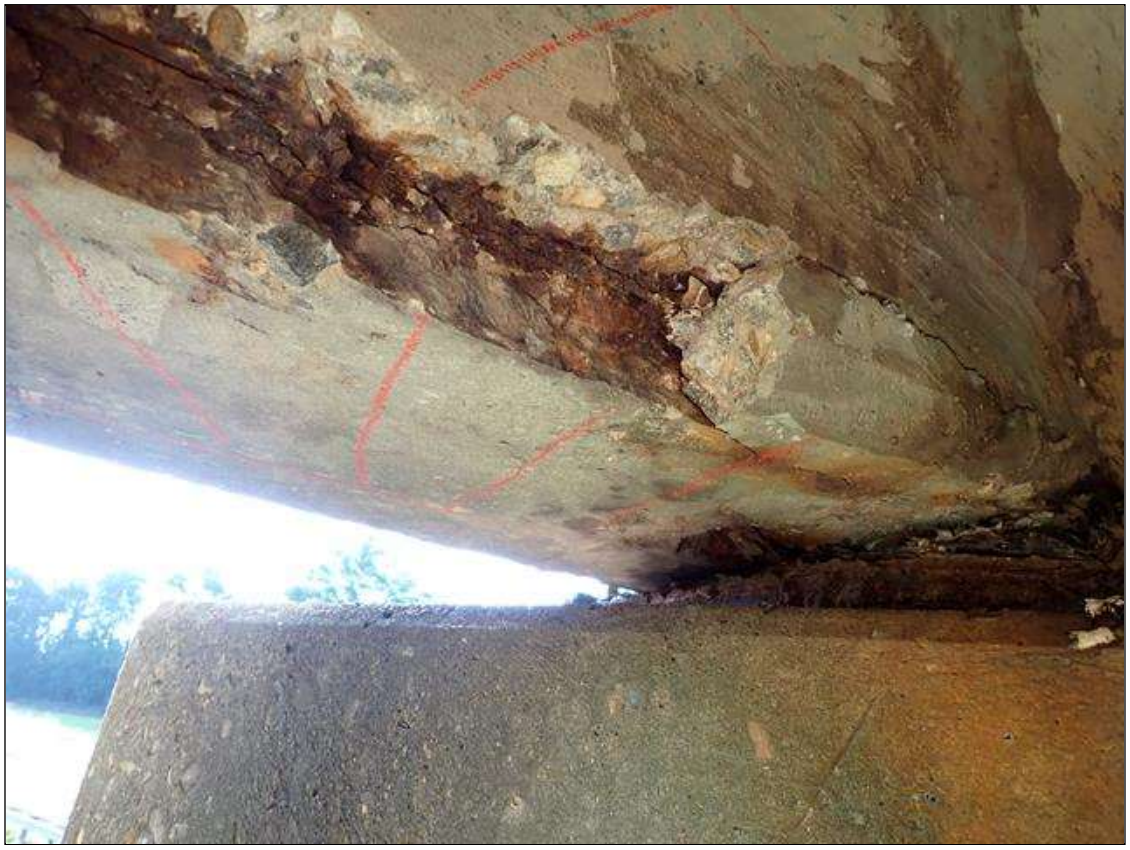
Bent 3 Pile 1: (PAR) 6 INCH DIAMETER X 1/2 INCH SPALL WITH EXPOSED REINFORCING (APPROXIMATELY 10 PERCENT LOSS) ON EAST FACE NEAR GROUNDLINE.



Bent 3 Pile 2: UP TO 8 FOOT X UP TO 1/32 INCH VERTICAL CRACKS, AT RANDOM THROUGHOUT.

Span 3 Beam 2: (4)- UP TO 3 INCH X 12 INCH X 1 INCH SPALLS WITH EXPOSED REINFORCING, WEST FACE, AT BENT 2.

Span 4 Beam 1: WEST FACE AND BOTTOM HAS A PATCHED AREA (2.5 FOOT X 1.5 FOOT) WITH HAIRLINE MAP CRACKING.



Span 5 Beam 4: (PAR) at bent 4, west face and underside, spall/delamination (6 foot x full width x up to 6 inch x 1.5 inch deep) with exposed rusted rebar (approximately 25 percent loss)

Span 5 Beam 4: (PAR) at bent 4, west face and underside, spall/delamination (6 foot x full width x up to 6 inch x 1.5 inch deep) with exposed rusted rebar (approximately 25 percent loss)

Span 4 Beam 4: West face over bent 4, delamination/spall [1 foot x 2 foot] with map cracks (up to 1/32 inch)

Span 5 Beam 3: East face over bent 4, delamination [16 inch x 8 inch] with cracks (up to 1/8 inch)

Span 5 Beam 3: (PAR) at bent 4, west face, spall/delamination (5 inch x 2 foot x 4 inch deep) with exposed rusted rebar (approximately 25 percent loss)

Span 4 Beam 3: SPAN 4 BEAM 3 WEST FACE OVER BENT 4. HAS A AREA THAT IS CRACKED (UP TO 1/16 INCH) AND DELAMINATED. AREA IS: (11 INCH X 31 INCH)

Bent 4 Cap 1: 2 FOOT X 2 FOOT UNSOUND PATCH, NORTH FACE, UNDER BAY 3.

Bent 4 Cap 1: NORTH FACE BAY 2. HAS A CRACKED AND DELAMINATED AREA [UP TO FULL HEIGHT X 5.5 FOOT]

Bent 4 Cap 1: (not found 2023) North face under beam 4, delamination/spall [up to 15 inch x 17 inch x 1/4 inch deep]

Bent 4 Cap 1: (PAR) underside of cap between columns 1 and 2, longitudinal cracks (up to 1/16 inch x 4 foot) some with rust stains and adjacent delaminations (up to 8 foot x full width)

Bent 4 Cap 1: WEST FACE HAS A PATCHED AREA (3 FOOT X 2 FOOT) WITH HAIRLINE MAP CRACKING. PATCH APPEARS TO BE SOUND.

Bent 4 Cap 1: (PAR) west face at bottom corner, map cracks (up to 1/32 inch) with rust stains

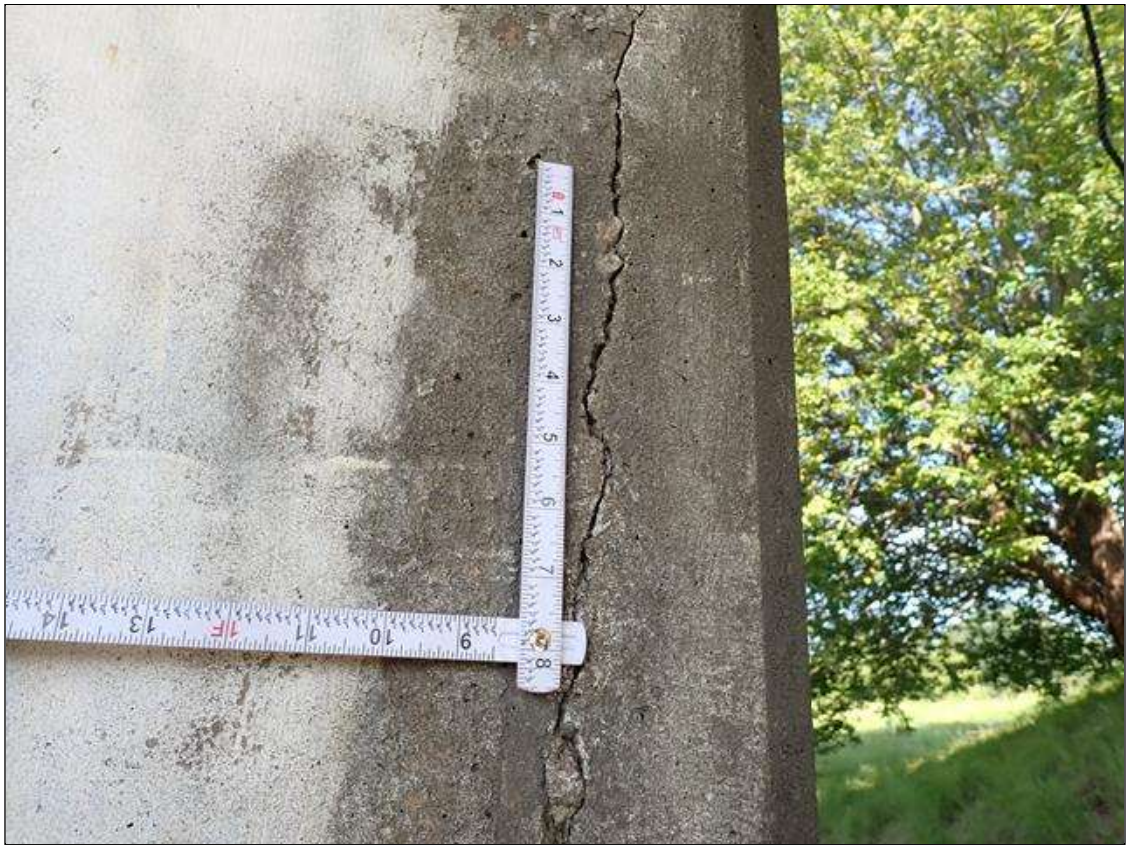
Bent 4 Cap 1: BENT 4 CAP HAS SCATTERED VERTICAL AND LONGITUDINAL CRACKS UP TO 1/16 INCH

Bent 4 Cap 1: North face of cap under beam 1, delamination [14 inch x 18 inch]

Span 5 Beam 1: WEST FACE AT BENT 4 HAS A PATCHED AREA (2 FOOT X FULL HEIGHT) THAT IS CRACKED (U TO 1/32 INCH)

Span 5 Beam 1: at bent 4, underside, (2) spalls/delaminations (1 foot x 3 inch x 1/2 inch deep) with exposed rusted rebar

Span 4 Beam 2: BOTTOM OF BEAM 2 OVER BENT 4. HAS A CRACK/SPALL AND DELAMINATED AREA WITH REBAR EXPOSED. AREA IS: 8 INCH X FULL WIDTH X 1/2 INCH DEEP [NO LOSS NOTED]

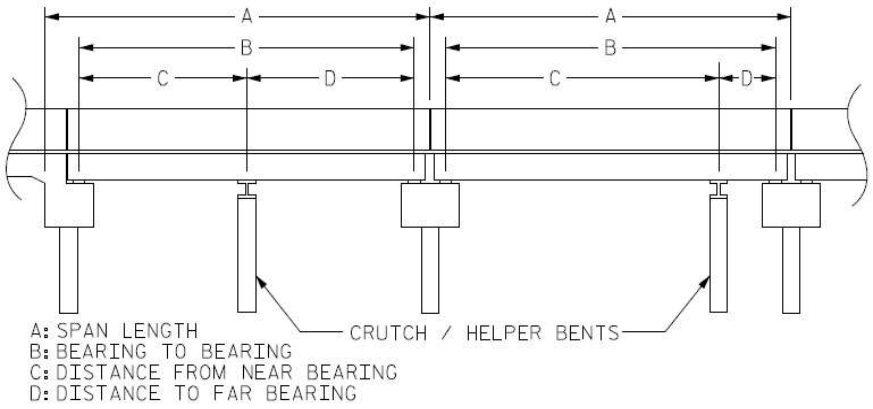


Bent 4 Pile 1: UP TO 10 FOOT X UP TO 1/16 INCH VERTICAL CRACKS, AT RANDOM THROUGHOUT.

Structure Data Worksheet

Span Profile

County: **BURKE** Structure Number: **110064**



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	36.000	34.000			
2	36.000	34.500			
3	56.500	55.000			
4	56.500	55.000			
5	52.500	50.500			

Structure Number: 110064 Span: 3 Route Name: I 40 E

roadway under span 3, looking east

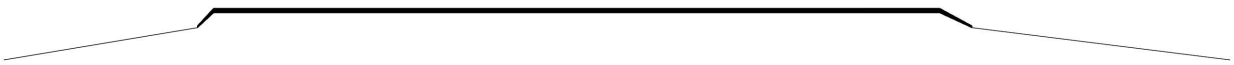
Route Number: 11000400	**Route Name:** I 40 E			**Reference Feature:** H
Minimum Vertical Clearance 17.130 feet	**Maximum Minimum Vertical Clearance** 18.020 feet			
Total Horizontal Clearance 42.000 feet	**Lateral Clearances: Left:** 12.920 feet **Right** 10.080 feet			
☑ **Base Highway Network**	**LRS Inventory Route, Sub Route Number** 10040			
Milepost: 96.030	**Number of Lanes:** 2	**ADT:** 19750	**Year of ADT:** 2019	**Percentage of Trucks:** 16
☑ **National Highway System**		☐ **STRAHNET Highway Designator**		
Functional Classification 11	Local Principal Arterial - Interstate	**Direction of Traffic:** 1	1 - way traffic	

Structure Number: 110064 Span: 4 Route Name: I 40 W

roadway under span 4, looking west

Route Number: 11000400	**Route Name:** I 40 W			**Reference Feature:** H
Minimum Vertical Clearance 14.980 feet	**Maximum Minimum Vertical Clearance** 15.450 feet			
Total Horizontal Clearance 42.060 feet	**Lateral Clearances: Left:** 13.360 feet	**Right** 9.920 feet		
☑ **Base Highway Network**	**LRS Inventory Route, Sub Route Number** 10040			
Milepost: 96.030	**Number of Lanes:** 2	**ADT:** 19750	**Year of ADT:** 2019	**Percentage of Trucks:** 16
☑ **National Highway System**	☐ **STRAHNET Highway Designator**			
Functional Classification 11	Local Principal Arterial - Interstate	**Direction of Traffic:** 1	1 - way traffic	

Bridge Inspection Field Sketch



Roadway	22.5ft Wide	2 Paved Lanes	Looking South
Left Shoulder	6.5ft Wide	0.5ft Paved	6ft Unpaved
Right Shoulder	9ft Wide	1ft Paved	8ft Unpaved
Left Guardrail			
Right Guardrail			

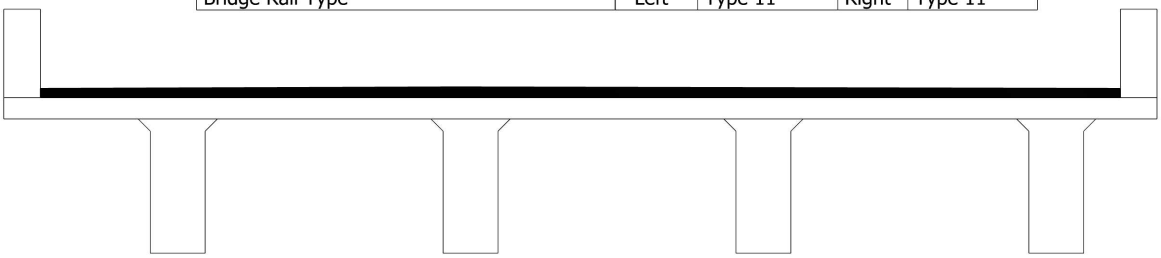
MEASUREMENTS TAKEN 125' FROM END BENT 2

Title	Description
APPROACH ROADWAY	LOOKING NORTH

Structure No:	Drawn By:	Date:	Filename:
110064	JCRODRIGUEZ	8/9/2023	S000930000230.wes

Bridge Inspection Field Sketch

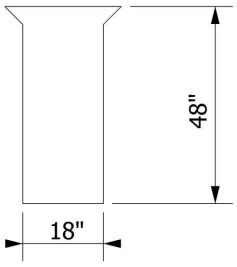
Deck Width/Out to Out	33.5ft	Between Rails			31.333ft
Clear Roadway	28.25ft	Wearing Surface			3.5in
Median Width		Median Height			
Curb Height		Left	9in	Right	9in
Sidewalk Width		Left	1.7ft	Right	1.7ft
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left	11in	Right	11in
Top of Rail to Deck/Wearing Surface		Left	2.146ft	Right	2.146ft
Bridge Rail Type		Left	Type 11	Right	Type 11



Measurements for Span #	1	All Spans Similar	
Deck Thickness	7in	Left Overhang	4.75ft
Top of Rail to Bottom of Beam (Avg)	6.667ft	Right Overhang	4.75ft

Beam #	Beam Type	Width	Height	Spacing	From
1	Reinforced Concrete Girder	18in	48in	4.75ft	Left Edge of Deck
2	Reinforced Concrete Girder	18in	48in	8ft	Beam 1
3	Reinforced Concrete Girder	18in	48in	8ft	Beam 2
4	Reinforced Concrete Girder	18in	48in	8ft	Beam 3

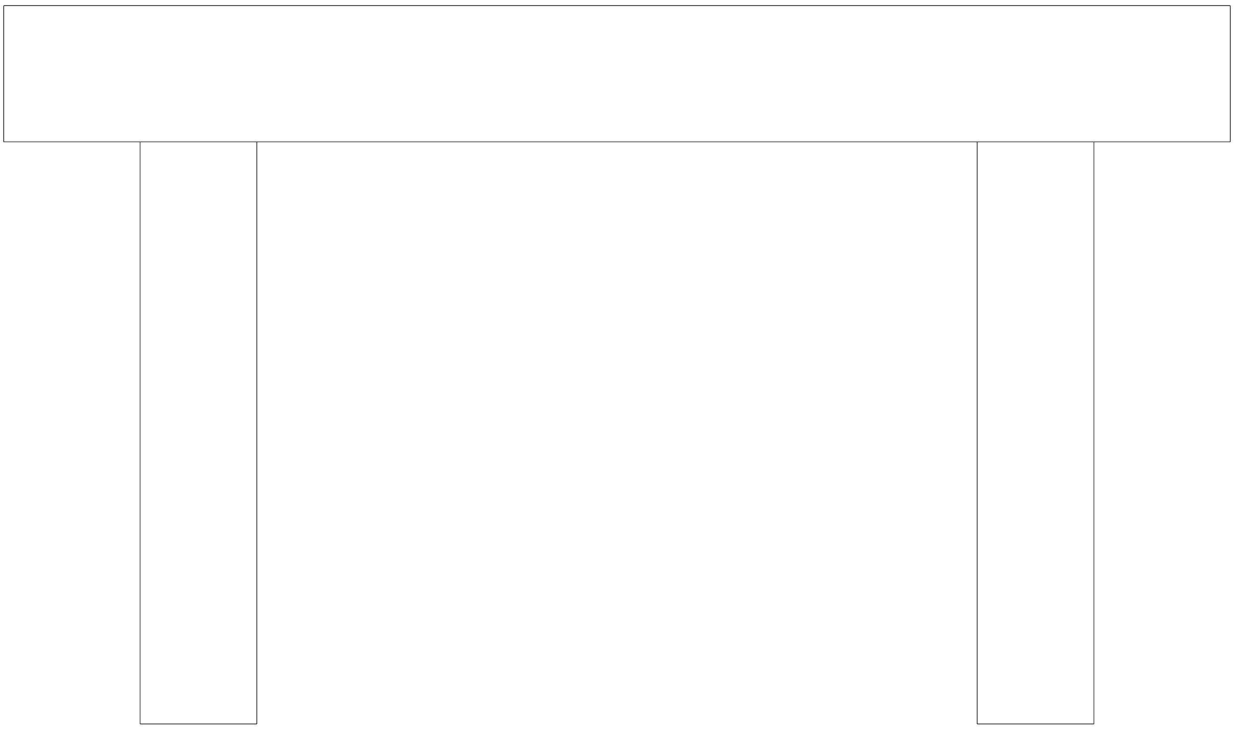
BEAM DIMENSIONS



Title	Description
TYPICAL SECTION	LOOKING NORTH

Structure No:	Drawn By:	Date:	Filename:
110064	JCRODRIGUEZ	8/9/2023	S000930000231.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	31.5ft	36in	42in	2.5ft	2.5ft

Piles							
#	Name	Type	Spacing	From	Height/Diam.	Width	Length
1	Pile 1	Reinforced Concrete Column	5ft	Left End of Bent	36in	36in	12.33ft
2	Pile 2	Reinforced Concrete Column	21.5ft	Pile 1	36in	36in	12.33ft

Title	Description
BENT SKETCH	LOOKING NORTH

Structure No: 110064	Drawn By: JCRODRIGUEZ	Date: 8/9/2023	Filename: S000930000232.wes

southwest guardrail termination

southeast guardrail termination

southwest guardrail attachment

southwest guardrail

end bent 1 asphalt

southeast guardrail attachment

southeast guardrail

southeast guardrail transition

south approach looking north

asphalt wearing surface

right bridge rail

left bridge rail

bent 1 asphalt

bent 2 asphalt

south approach looking south

bent 3 asphalt

roadway looking west

roadway looking east

north approach looking north

bent 4 asphalt

northwest guardrail attachment

northwest guardrail

northwest guardrail transition

end bent 2 asphalt

northeast guardrail attachment

northeast guardrail

north approach looking south

northeast guardrail termination

northwest guardrail termination

northwest wingwall

end bent 2 and slope protection

end bearing assembly

northeast wingwall

beams over bent

roadway under span 4, looking west (I-40 westbound)

east profile looking west

roadway under span 3, looking east (I-40 eastbound)

west profile looking east

bent 4

superstructure underside

bent 3

bent 2

bent 1

southwest wingwall

end bent 1 and slope protection

southeast wingwall

interior bearing assembly

intermediate diaphragm

end diaphragm

bridge number

interior bearing assembly