



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 STRUCTURE MANAGEMENT UNIT

ATTENTION: **BRIDGE IS UNDER CONSTRUCTION AND CLOSED TO TRAFFIC**

Structure Safety Report

Routine Element Inspection

STRUCTURE NUMBER: 110095 SAP STRUCTURE NO: 0120095 FHWA STRUCTURE NO: 00000000230095

DIVISION: 13 COUNTY: BURKE INSPECTION DATE: 09/05/2023 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1147 MILE POST: _____

LOCATION: 0.1 MI.N.JCT.SR1142

FEATURE INTERSECTED: I-40

LATITUDE: 35° 42' 19.29" LONGITUDE: 81° 47' 4.34"

PPC CORED SLABS

SUPERSTRUCTURE: **REINFORCED CONCRETE DECK GIRDERS**

E.BTS:RC CAPS/PPC PILES; INT.BTS:RCP&BEAM/PPC PILE FTGS

SUBSTRUCTURE: **E.BTS:RC CAPS/PPC PILES;INT.BTS:RCP&BEAM/PPC PILE FTGS.**

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

FRACTURE CRITICAL TEMPORARY SHORING SCOUR CRITICAL SCOUR PLAN OF ACTION

GRADES: (Inspector/NBI Coding) **DECK** 9/5 **SUPERSTRUCTURE** 9/5 **SUBSTRUCTURE** 8/5 **CULVERT** N/N

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: NONE



Sign noticed issued for	Number Required
<u>NO</u> WEIGHT LIMIT	<u>0</u>
<u>NO</u> DELINEATORS	<u>0</u>
<u>NO</u> NARROW BRIDGE	<u>0</u>
<u>NO</u> ONE LANE BRIDGE	<u>0</u>
<u>NO</u> LOW CLEARANCE	<u>0</u>

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS _____

BRIDGE IS UNDER CONSTRUCTION AND CLOSED TO TRAFFIC

INSPECTED BY DELVIN ADAMS	SIGNATURE 	ASSISTED BY RICKY HOWARD
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NATIONAL BRIDGE INVENTROY ----- STRUCTURE INVENTORY AND APPRAISAL

10/20/2023

IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE 110095
 (8) STRUCTURE NUMBER (FEDERAL) 0230095
 (5) INVENTORY ROUTE (ON/UNDER) ON 131011470
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 13
 (3) COUNTY CODE (FEDERAL) 23 (4) PLACE CODE 26200
 (6) FEATURE INTERSECTED I-40
 (7) FACILITY CARRIED SR1147
 (9) LOCATION 0.1 MI.N.JCT.SR1142
 (11) MILEPOINT 0.0
 (12) BASE HIGHWAY NETWORK 0
 (13) LRS INVENTORY ROUTE & SUBROUTE
 (16) LATITUDE 35° 42' 19.29" (17) LONGITUDE 81° 47' 4.34"
 (98) BORDER BRIDGE STATE CODE PERCENT SHARED
 (99) BORDER BRIDGE STRUCTURE NUMBER

SUFFICIENCY RATING 72.43

STATUS =

CLASSIFICATION

CODE

(112) NBIS BRIDGE SYSTEM YES
 (104) HIGHWAY SYSTEM Inventory Route not on NHS 0
 (26) FUNCTIONAL CLASS Urban Local 19
 (100) STRAHNET HIGHWAY Not a STRAHNET Route 0
 (101) PARALLEL STRUCTURE 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

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 4
 (46) NUMBER OF SPANS IN APPROACH 0
 (107) DECK STRUCTURE TYPE CODE 1
 (108) WEARING SURFACE/PROTECTIVE SYSTEM
 (A) TYPE OF WEARING SURFACE CODE 6
 (B) TYPE OF MEMBRANE CODE 0
 (C) TYPE OF DECK PROTECTION CODE 0

CONDITION

CODE

(58) DECK 5
 (59) SUPERSTRUCTURE 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-29 52
 (65) INVENTORY RATING METHOD - 1
 (66) INVENTORY RATING HS-17 31
 (70) BRIDGE POSTING No Posting Required 5
 (41) STRUCTURE OPEN, POSTED, OR CLOSED DESCRIPTION Open, no restriction A

AGE AND SERVICE

(27) YEAR BUILT 1956
 (106) YEAR RECONSTRUCTED 0
 (42) TYPE OF SERVICE ON - Overpass Structure
 OFF - Highway CODE 61
 (28) LANES ON STRUCTURE 2 LANES UNDER STRUCTURE 4
 (29) AVERAGE DAILY TRAFFIC 2200
 (30) YEAR OF ADT 2016 (109) TRUCK ADT PCT 7
 (19) BYPASS OR DETOUR LENGTH 4.0

APPRAISAL

CODE

(67) STRUCTURAL EVALUATION 5
 (68) DECK GEOMETRY 4
 (69) UNDERCLEARANCES, VERT & HORIZ 4
 (71) WATERWAY ADEQUACY N
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES 0111
 (113) SCOUR CRITICAL BRIDGES N

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 53.0
 (49) STRUCTURE LENGTH 209.0
 (50) CURB OR SIDEWALK: LEFT 1.7 RIGHT 1.7
 (51) BRIDGE ROADWAY WIDTH, CURB TO CURB 28.0
 (52) DECK WIDTH OUT TO OUT 33.5
 (32) APPROACH ROADWAY WITH (W/ SHOULDERS) 27.0
 (33) BRIDGE MEDIAN No median CODE 0
 (34) SKEW 0 (35) STRUCTURE FLARED 0
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 28.0
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9
 (54) MIN VERT UNDERCLEAR: REFERENCE H 15.4
 (55) MIN LAT UNDERCLEARANCE RT: REFERENCE H 12.0
 (56) MIN LAT UNDERCLEARANCE LT: 13.8

PROPOSED IMPROVEMENTS

CODE

(75) TYPE OF WORK
 (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 4,400 YEAR OF FUTURE ADT 2040

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

INSPECTION

(90) INSPECTION DATE 09/23 (91) FREQUENCY 24
 (92) CRITICAL FEATURE INSPECTION (93) CFI DATE
 A) FRACTURE CRIT DETAIL A)
 B) UNDERWATER INSP B)
 C) OTHER SPECIAL INSP C)
 SCOUR

Span Number	Facility Carried	Inventory Route	Maximum Minimum Vertical Clearance	Milepoint	Base Highway	LRS Inventory Route	Functional Classification	Number of Lanes	Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	See Note Below					STRAHNET Highway	Direction of Traffic	National Highway System	National Truck Network
												Reference Feature	Minimum Vertical Underclearance	Right Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade				
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
2	I 40 E	11000400	15.3	97.7	1	10040	11	2	15750	2015	44.3	H	15.1	12.8	12.5	4		1	<input type="checkbox"/>	<input type="checkbox"/>
2	I 40 E	11000400	15.3	97.7	1	10040	11	2	15750	2015	44.3	H	15.1	12.8	12.5	4	1	1	<input type="checkbox"/>	<input type="checkbox"/>
3	I 40 W	11000400	15.7	97.7	1	10040	11	2	15750	2015	43.5	H	15.4	12.0	13.8	4	1	1	<input type="checkbox"/>	<input type="checkbox"/>
3	I 40 W	11000400	15.7	97.7	1	10040	11	2	15750	2015	43.5	H	15.4	12.0	13.8	4		1	<input type="checkbox"/>	<input type="checkbox"/>

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

Superstructure Build Details

Span Number 1

Span Length 47.000

Skew 90.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1481 Square Feet		
4	Fixed Bearing	Fixed Bearing	4 Each	Legacy Red Lead Primer Systems with Various Topcoats	4
4	Movable Bearing	Movable Bearing	4 Each	Legacy Red Lead Primer Systems with Various Topcoats	4
1	Epoxy Wearing Surface	Wearing Surface	1316 Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	94 Feet		
4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	184 Feet		

Span Number 2

Span Length 54.000

Skew 90.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
2	Concrete Railing	Reinforced Concrete Bridge Railing	108 Feet		
1	Asphalt Wearing Surface	Wearing Surface	1512 Square Feet		
4	Movable Bearing	Movable Bearing	4 Each	Legacy Red Lead Primer Systems with Various Topcoats	4
1	Standard Joint	Pourable Joint Seal	30 Feet		
4	Fixed Bearing	Fixed Bearing	4 Each	Legacy Red Lead Primer Systems with Various Topcoats	4
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1701 Square Feet		
4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	216 Feet		

Span Number 3

Span Length 54.000

Skew 90.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1701 Square Feet		
1	Standard Joint	Pourable Joint Seal	30 Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	108 Feet		
4	Movable Bearing	Movable Bearing	4 Each	Legacy Red Lead Primer Systems with Various Topcoats	4

Superstructure Build Details

4	Fixed Bearing	Fixed Bearing	4 Each	Legacy Red Lead Primer Systems with Various Topcoats	4
4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	216 Feet		
1	Asphalt Wearing Surface	Wearing Surface	1512 Square Feet		

Span Number 4

Span Length 54.000

Skew 90.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	212 Feet		
1	Standard Joint	Pourable Joint Seal	30 Feet		
4	Movable Bearing	Movable Bearing	4 Each	Legacy Red Lead Primer Systems with Various Topcoats	4
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1701 Square Feet		
4	Fixed Bearing	Fixed Bearing	4 Each	Legacy Red Lead Primer Systems with Various Topcoats	4
1	Asphalt Wearing Surface	Wearing Surface	1512 Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	108 Feet		

Structure Element Scoring

Structure Number: 110095

Inspection Date 9/5/2023

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12		Reinforced Concrete Deck	Deck	6,584	4,981	1,600	3	0
110		Reinforced Concrete Open Girder/Beam	Beam	828	567	252	9	0
205		Reinforced Concrete Column	Piles and Columns	6	0	4	2	0
215		Reinforced Concrete Abutment	Abutments	90	90	0	0	0
220		Reinforced Concrete Pile Cap/Footing	Footing	15	15	0	0	0
226		Prestressed Concrete Pile	Piles and Columns	5	5	0	0	0
227		Reinforced Concrete Pile	Piles and Columns	5	5	0	0	0
234		Reinforced Concrete Pier Cap	Caps	163	86	49	22	6
301		Pourable Joint Seal	Expansion Joints	90	90	0	0	0
311		Movable Bearing	Bearing Device	16	0	13	3	0
515	311	Steel Protective Coating	Bearing Device	16	0	0	0	16
313		Fixed Bearing	Bearing Device	16	3	12	1	0
515	313	Steel Protective Coating	Bearing Device	16	0	3	0	13
331		Reinforced Concrete Bridge Railing	Bridge Rail	418	398	19	1	0
510		Wearing Surface	Wearing Surfaces	5,852	3,749	825	1,018	260

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **110095**

Inspection Date: **09/05/2023**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Delamination/Spall	3 Square Feet
3326	Reinforced Concrete Deck	Cracking (RC and Other)	1600 Square Feet
3306	Reinforced Concrete Open Girder/Beam	Cracking (RC and Other)	210 Feet
3306	Reinforced Concrete Open Girder/Beam	Delamination/Spall	8 Feet
3348	Reinforced Concrete Column	Cracking (RC and Other)	5 Each
3348	Reinforced Concrete Pier Cap	Delamination/Spall	37 Feet
3348	Reinforced Concrete Pier Cap	Efflorescence/Rust Staining	20 Feet
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	6 Feet
3334	Movable Bearing	Corrosion	1 Each
3318	Reinforced Concrete Bridge Railing	Delamination/Spall	3 Feet
2816	Wearing Surface	Patched Area/Pothole (Wearing Surface)	683 Square Feet
2816	Wearing Surface	Crack (Wearing Surface)	750 Square Feet
3342	Steel Protective Coating	Peeling/Bubbling/Cracking (steel Protective Coatings)	3 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	29 Square Feet

Element Structure Maintenance Quantities

Structure Number: **110095**

Inspection Date **09/05/2023**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Beam	3306	Maintenance Concrete Superstructure Components	218	828	0.000	9.000	252.000	567.000
Bearing Device	3334	Bridge Bearing	1	16	0.000	3.000	13.000	0.000
Bearing Device	3334	Bridge Bearing	0	16	0.000	1.000	12.000	3.000
Bearing Device	3342	Clean and Paint Steel	16	16	16.000	0.000	0.000	0.000
Bearing Device	3342	Clean and Paint Steel	16	16	13.000	0.000	3.000	0.000
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	3	418	0.000	1.000	19.000	398.000
Deck	3326	Maintenance of Concrete Deck	1603	6584	0.000	3.000	1600.000	4981.000
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	90	0.000	0.000	0.000	90.000
Wearing Surfaces	2816	Asphalt Surface Repair	1373	4536	260.000	980.000	825.000	2471.000
Wearing Surfaces	2816	Asphalt Surface Repair	60	1316	0.000	38.000	0.000	1278.000
Abutments	3350	Maintenance of Concrete Wings and Wall	0	90	0.000	0.000	0.000	90.000
Caps	3348	Maintenance of Concrete Substructure	58	163	6.000	22.000	49.000	86.000
Footing	3348	Maintenance of Concrete Substructure	0	15	0.000	0.000	0.000	15.000
Piles and Columns	3348	Maintenance of Concrete Substructure	0	5	0.000	0.000	0.000	5.000
Piles and Columns	3348	Maintenance of Concrete Substructure	0	5	0.000	0.000	0.000	5.000
Piles and Columns	3348	Maintenance of Concrete Substructure	5	6	0.000	2.000	4.000	0.000

Element Condition and Maintenance Data

Structure Number: 110095

Inspection Date: 09/05/2023

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	46	28	18	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 110	Cracking (RC and Other)	SPAN 1 BEAM HAS SCATTERED CRACKS.	2	18	18 Feet
General Comments					

Span 1 **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	46	31	15	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 110	Cracking (RC and Other)	SPAN 1 BEAM HAS SCATTERED CRACKS.	2	15	15 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	46	31	15	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 110	Cracking (RC and Other)	SPAN 1 BEAM HAS SCATTERED CRACKS.	2	15	15 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	46	26	20	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 110	Cracking (RC and Other)	SPAN 1 BEAM HAS SCATTERED CRACKS.	2	20	20 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	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/> 313	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	1 SF OF FAILED COATING	4	1	1	Square Feet

General Comments

Span 1 Far Bearing 1
Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/> 311	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	1 SF OF FAILED COATING	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	1	0	0	0	Each
515	Steel Protective Coating	1	0	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/> 515	Peeling/Bubbling/Cracking (steel Protective Coatings)	PROTECTIVE COATING IS PEELING IN SCATTERED LOCATIONS.	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	
<input type="checkbox"/> 311	Corrosion	active surface corrosion [no section loss noted]	2	1		Each

Structure Number: **110095**Inspection Date: **09/05/2023**

<input type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	1 SF OF FAILED COATING	4	1	1	Square Feet
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General Comments**Span 1 Near Bearing 3****Fixed Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input type="checkbox"/>	515	Peeling/Bubbling/Cracking (steel Protective Coatings)	PROTECTIVE COATING IS PEELING IN SCATTERED LOCATIONS.	2	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		
<input type="checkbox"/>	311	Corrosion	active surface corrosion [no section loss noted]	2	1		Each
<input type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	1 SF OF FAILED COATING	4	1	1	Square Feet

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

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input type="checkbox"/>	313	Corrosion	active surface corrosion [section loss up to 1/4"] on plate and bolt	3	1		Each
<input type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	1 SF OF FAILED COATING	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	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 311	Corrosion	active surface corrosion [no section loss noted]	2	1	Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	1 SF OF FAILED COATING	4	1	1 Square Feet

General Comments

Span 1 Wearing Surface
Epoxy Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	1,316	1,278	0	38	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 510	Crack (Wearing Surface)	28' X UP TO 1/4" TRANSVERSE CRACK OVER END BENT 1	3	28	Square Feet
<input type="checkbox"/> 510	Patched Area/Pothole (Wearing Surface)	South bound lane at 15' from end bent 1, broken and depressed asphalt [40" x 30"]	3	10	60 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	1,701	898	800	3	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 12	Delamination/Spall	BOTTOM OF DECK BAY 2 OVER BENT 2. HAS A CRACK AND DELAMINATED/spall [5" x 3" x 1/4" deep] WITH IN PLACE FORM WORK.	3	3	3 Square Feet
<input type="checkbox"/> 12	Cracking (RC and Other)	throughout underside, multiple transverse cracks [hairline x up to 6.5'] with efflorescence	2	800	800 Square Feet

General Comments

Span 2 Expansion Joint 1
Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint Seal	30	30	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 301	Debris Impaction	DEFECT NOT FOUND 08/06/2019	1		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	54	22	30	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 110	Delamination/Spall	3.' X UP TO 10" X 8" SPALL WITH EXPOSED REINFORCING BENT 1 DIAPHRAGM BAY 1	3		4 Feet
<input type="checkbox"/> 110	Delamination/Spall	in patched area over right East bound lane, spall [14" x 3" x 1" deep]	3	2	2 Feet
<input type="checkbox"/> 110	Cracking (RC and Other)	SPAN 2 BEAM HAS SCATTERED CRACKS.	2	20	20 Feet
<input type="checkbox"/> 110	Patched Area	1.583' LONG X 3" HIGH X 3" PATCHED AREA WEST FACE AT BENT 1	2	2	Feet
<input type="checkbox"/> 110	Patched Area	10' X 18" PATCHED AREA EXTENDING UP TO 1' IN EAST AND WEST FACES NEAR MIDSPAN.	2	8	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	54	43	10	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 110	Delamination/Spall	SPALL WITH EXPOSED REINFORCING WEST FACE AT END BENT 1 AREA IS: 8" x 16" x 1/2" DEEP.	3	1	1 Feet
<input type="checkbox"/> 110	Cracking (RC and Other)	SPAN 2 BEAM HAS SCATTERED CRACKS.	2	10	10 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	54	38	15	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 110	Damage	6" LONG X 5" WIDE X 1" DEEP SPALL AT THE BOTTOM CORNER OF THE LEFT FACE DUE TO IMPACT DAMAGE AT 19.167" FROM THE NEAR END OF THE SPAN.	3	1	Feet
<input type="checkbox"/> 110	Cracking (RC and Other)	SPAN 2 BEAM HAS SCATTERED CRACKS.	2	15	15 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	54	25	26	3	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 110	Cracking (RC and Other)	at both ends of repaired section, longitudinal cracks [up to 15" x 1/16"]	3	3	3 Feet
<input type="checkbox"/> 110	Cracking (RC and Other)	SPAN 2 BEAM HAS SCATTERED CRACKS [up to full height x up to 1/32"]	2	20	20 Feet
<input type="checkbox"/> 110	Patched Area	6' X 18" PATCHED AREA EXTENDING UP TO 1.5' IN EAST AND WEST FACES NEAR MIDSPAN.	2	6	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	54	53	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 331	Delamination/Spall	at far end, spall [4" x 2" x 1/2" deep] with exposed rusted reinforcing [no section loss noted]	2	1	1 Feet

General Comments

Span 2 **Near Bearing 1**
Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 313	Corrosion	active surface corrosion [no loss noted]	2	1	Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	1 SF OF FAILED COATING	4	1	1 Square Feet

General Comments

Span 2 **Far Bearing 1**
Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 311	Corrosion	active surface corrosion [no loss noted]	2	1	Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	1 SF OF FAILED COATING	4	1	1 Square Feet

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

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 313	Corrosion	active surface corrosion [no loss noted]	2	1	Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	1 SF OF FAILED COATING	4	1	1 Square Feet

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

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 311	Corrosion	active surface corrosion [no loss noted]	2	1	Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	1 SF OF FAILED COATING	4	1	1 Square Feet

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

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 313	Corrosion	active surface corrosion [no loss noted]	2	1	Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	1 SF OF FAILED COATING	4	1	1 Square Feet

General Comments

Span 2 Far Bearing 3
Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/> 311	Corrosion	active surface corrosion [no loss noted]	2	1		Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	1 SF OF FAILED COATING	4	1	1	Square Feet

General Comments

Span 2 Near Bearing 4
Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/> 313	Corrosion	active surface corrosion [no loss noted]	2	1		Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	1 SF OF FAILED COATING	4	1	1	Square Feet

General Comments

Span 2 Far Bearing 4
Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/> 311	Corrosion	active surface corrosion [no loss noted]	2	1		Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	1 SF OF FAILED COATING	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	1,512	652	500	360	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/> 510	Patched Area/Pothole (Wearing Surface)	along both lanes, multiple areas of broken and depressed asphalt [up to 9' x 5'] with areas of missing asphalt	3	250	250	Square Feet

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<input type="checkbox"/>	510	Patched Area/Pothole (Wearing Surface)	UP TO 4' X 5' CRACKED PATCHED AREAS UP TO 1/4" NEAR BENT 1	3	110	110	Square Feet
<input type="checkbox"/>	510	Patched Area/Pothole (Wearing Surface)	WEARING SURFACE HAS SCATTERED SOUND PATCHED AREAS WITH SOME MAP CRACKING.	2	500		Square Feet

General Comments

Span 3 Expansion Joint 2 Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	30	30	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/>	301	Debris Impaction	DEFECT NOT FOUND 08/06/2019	1		Feet

General Comments

Span 3 Deck Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,701	1,101	600	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input type="checkbox"/>	12	Cracking (RC and Other)	throughout underside, multiple transverse cracks [hairline x up to 6.5'] with efflorescence and rust stain	2	600	600	Square 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	54	53	0	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input type="checkbox"/>	110	Delamination/Spall	West face over bent 3, delamination/spall [5" x 10" x up to 1" deep] with exposed rusted reinforcing [10% section loss] and associated vertical crack [full height x hairline]	3	1	1	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	54	53	0	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input type="checkbox"/>	110	Cracking (RC and Other)	West face over bent 3, vertical crack [full height x 1/16"]	3	1	1	Feet

General Comments

Span 3 Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	54	53	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 331	Delamination/Spall	at midspan, spall [5" x 4" x 3/4" deep]	2	1	1 Feet

General Comments

Span 3 Near Bearing 1

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 313	Corrosion	active surface corrosion [no loss noted]	2	1	Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	1 SF OF FAILED COATING	4	1	1 Square Feet

General Comments

Span 3 Far Bearing 1

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 311	Corrosion	active surface corrosion [no loss noted]	2	1	Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	1 SF OF FAILED COATING	4	1	1 Square Feet

General Comments

Span 3 Near Bearing 2

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 313	Corrosion	active surface corrosion [no loss noted]	2	1	Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	1 SF OF FAILED COATING	4	1	1 Square Feet

General Comments

Span 3 Far Bearing 2
Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/> 311	Corrosion	active surface corrosion [no loss noted]	2	1		Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	1 SF OF FAILED COATING	4	1	1	Square Feet

General Comments

Span 3 Near Bearing 3
Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/> 313	Corrosion	active surface corrosion [no loss noted]	2	1		Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	1 SF OF FAILED COATING	4	1	1	Square Feet

General Comments

Span 3 Far Bearing 3
Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/> 311	Corrosion	active surface corrosion [no loss noted]	2	1		Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	1 SF OF FAILED COATING	4	1	1	Square Feet

General Comments

Span 3 Near Bearing 4
Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
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<input type="checkbox"/>	313	Corrosion	active surface corrosion [no loss noted]	2	1	Each
<input type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	1 SF OF FAILED COATING	4	1	1 Square Feet

General Comments

Span 3 Far Bearing 4

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/>	311	Corrosion	active corrosion with section loss [up to 1/16"]	2	1	Each
<input type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	1 SF OF FAILED COATING	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	1,512	992	300	20	200 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/>	510	Patched Area/Pothole (Wearing Surface)	[PAR] previous PAR repair has failed, multiple areas broken and depressed asphalt [up to 8' x 4'] with areas of missing asphalt	4	200	200 Square Feet
<input type="checkbox"/>	510	Patched Area/Pothole (Wearing Surface)	[PAR] Southbound lane at 10' from bent 2, previous PAR repair has failed, broken and depressed asphalt [8' x 3']	3	20	3 Square Feet
<input type="checkbox"/>	510	Crack (Wearing Surface)	WEARING SURFACE HAS SCATTERED TRANSVERSE/MAP AND LONGITUDINAL CRACKING UP TO 1/4".	2	150	150 Square Feet
<input type="checkbox"/>	510	Patched Area/Pothole (Wearing Surface)	WEARING SURFACE HAS SCATTERED PATCHED AREAS, PATCHES APPEAR TO BE SOUND.	2	150	Square Feet

General Comments

Span 4 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	1,701	1,501	200	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/>	12	Cracking (RC and Other)	SPAN 4 BOTTOM OF DECK HAS SCATTERED CRACKS WITH SOME EFFLORESCENCE VISIBLE.	2	200	200 Square Feet

General Comments

Span 4 Expansion Joint 3**Standard Joint**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint Seal	30	30	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 301	Debris Impaction	DEFECT NOT FOUND 08/06/2019	1		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	53	23	30	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 110	Cracking (RC and Other)	along length of beam, scattered vertical and wraparound cracks [hairline]	2	30	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	53	33	20	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 110	Cracking (RC and Other)	along length of beam, scattered vertical and wraparound cracks [hairline]	2	20	20 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	53	28	25	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 110	Cracking (RC and Other)	along length of beam, scattered vertical and wraparound cracks [hairline]	2	25	25 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	53	25	28	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 110	Cracking (RC and Other)	along length of beam, scattered vertical and wraparound cracks [hairline]	2	28	28 Feet

General Comments**Span 4****Right Bridge Rail****Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	54	36	17	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 331	Delamination/Spall	at far end post, spall [7" x 2" x 1" deep]	3	1	1 Feet
<input type="checkbox"/> 331	Patched Area	at far half, horizontal beam and posts have been repaired	2	17	Square Feet

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

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

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

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

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 313	Corrosion	active surface rust	2	1	Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	failed, no protection of underlying metal	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	
<input type="checkbox"/> 311	Corrosion	RUST SCALE	3	1		Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	1 SF OF FAILED COATING	4	1	1	Square Feet

General Comments

Span 4 Far Bearing 2
Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/> 313	Corrosion	active surface rust	2	1		Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	failed, no protection of underlying metal	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	
<input type="checkbox"/> 311	Corrosion	active surface rust	3	1	1	Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	1 SF OF FAILED COATING	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	1	0	0	0	Each
515	Steel Protective Coating	1	0	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
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<input type="checkbox"/>	515	Peeling/Bubbling/Cracking (steel Protective Coatings)	SPAN 4 FAR BEARING PROTECTIVE COATING IS PEELING IN SCATTERED LOCATIONS.	2	1	1	Square Feet
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General Comments

Span 4 Near Bearing 4 Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty				
<input type="checkbox"/>	311	Corrosion				active surface rust	2	1	Each
<input type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)				1 SF OF FAILED COATING	4	1	1 Square Feet

General Comments

Span 4 Far Bearing 4 Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty				
<input type="checkbox"/>	313	Corrosion				active surface rust	2	1	Each
<input type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)				failed, no protection of underlying metal	4	1	1 Square Feet

General Comments

Span 4 Wearing Surface Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,512	827	25	600	60	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty				
<input type="checkbox"/>	510	Patched Area/Pothole (Wearing Surface)				[PAR] WEARING SURFACE RIGHT LANE NEAR END BENT 2. HAS A PATCHED AREA THAT IS CRACKED/SPALLED AND DELAMINATED WITH 3 UP TO 6' DIAMETER FULL DEPTH POTHOLE, OVERALL AREA IS: 72" x 72" x 2" DEEP, with other areas of broken and depressed asphalt	4	60	60 Square Feet
<input type="checkbox"/>	510	Crack (Wearing Surface)				WEARING SURFACE HAS SCATTERED TRANSVERSE/MAP AND LONGITUDINAL CRACKS UP TO 1/8".	3	600	600 Square Feet
<input type="checkbox"/>	510	Patched Area/Pothole (Wearing Surface)				UP TO 12" X 8" FULL DEPTH POTHOLE SOUTHBOUND LANE 5' FROM BENT 3 - Repaired since previous inspection TDG 08/25/2021	2	5	Square Feet

<input type="checkbox"/>	510	Patched Area/Pothole (Wearing Surface)	WEARING SURFACE HAS SCATTERED PATCHED AREAS, PATCHES APPEAR TO BE SOUND.	2	20	Square Feet
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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	38	32	6	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/>	234	Cracking (RC and Other)	AREA OF MAP CRACKING 20" X 3" X UP TO 0.02" ON TOP AND NORTH FACE IN WEST OVERHANG	2	6	Feet

General Comments**Bent 1 Cap 1****Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	29	10	0	14	5 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/>	234	Delamination/Spall	[PAR] at top and North face in bay 3, delamination/spall [7' X full width X up to 8" deep] with exposed rusted reinforcing [up to 15% section loss]	4	5	5 Feet
<input type="checkbox"/>	234	Cracking (RC and Other)	SCATTERED CRACKS throughout underside UP TO 1/8" SOME WITH EFFLORESCENCE AND RUST STAINS.	3	6	6 Feet
<input type="checkbox"/>	234	Delamination/Spall	North face below beam 3, delamination [20" x up to full height]	3	2	2 Feet
<input type="checkbox"/>	234	Delamination/Spall	NORTH FACE, BAY 1. CRACK AND DELAMINATED AREA IS: FROM TOP EDGE DOWN 13" x 6' x 4" DEEP.	3	6	6 Feet
<input type="checkbox"/>	234	Cracking (RC and Other)	DUPLICATE	1		Feet

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

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/>	205	Cracking (RC and Other)	Northeast corner of pile underneath cap, vertical crack [4' long x up to 1/8" wide]	3	1	1 Each
<input type="checkbox"/>	205	Cracking (RC and Other)	scattered throughout all faces, vertical cracks [up to 1/32" wide]	2		Each

General Comments

Bent 1 Pile 2
Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 205	Cracking (RC and Other)	on East and West faces at top of pile, multiple hairline vertical cracks	2	1	Each

General Comments

Bent 2 Cap 1
Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	29	13	16	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 234	Efflorescence/Rust Staining	at bottom of North face under beam 3, delamination [20" x 6"] with rust stain and pop outs	3	10	10 Feet
<input type="checkbox"/> 234	Delamination/Spall	at bottom of North face under beam 2, delamination [22" x 6"]	2	2	2 Feet
<input type="checkbox"/> 234	Delamination/Spall	at top of South face in bay 2, delamination [3-1/2' x 21"]	2	4	4 Feet

General Comments

Bent 2 Pile 1
Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 205	Cracking (RC and Other)	2 - UP TO 5' X 1/32" VERTICAL CRACKS ON WEST FACE NEAR BOTTOM OF CAP	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	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 205	Cracking (RC and Other)	4 - UP TO 3' X 1/32" VERTICAL CRACKS ON EAST AND WEST FACE NEAR BOTTOM OF CAP	2	1	Each

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	38	31	7	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 234	Delamination/Spall	on North face of cap under beam 2, delamination [18" x 4"] and in bay 3, delamination [40" x 18"] with associated cracks [up to 1/32"]	2	7	Feet

General Comments**Bent 3****Cap 1****Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	29	0	20	8	1 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 234	Delamination/Spall	[PAR] on West face of cap, spall/delamination [14" x 19" x up to 2" deep] with exposed rusted reinforcing [up to 1/32" section loss] and associated hairline map cracking	4	1	1 Feet
<input type="checkbox"/> 234	Delamination/Spall	22" x 34" x 1" SPALL WITH exposed rusted reinforcing [up to 20% section loss] AND 6.5' X full height DELAMINATED AREA NORTH FACE, BAY 3.	3	8	8 Feet
<input type="checkbox"/> 234	Efflorescence/Rust Staining	BOTTOM OF CAP BETWEEN PILES 1 AND 2. 34" x 60" CRACKED AND DELAMINATED AREA with rust stain	3	10	10 Feet
<input type="checkbox"/> 234	Cracking (RC and Other)	SCATTERED vertical and longitudinal CRACKS [up to 1/32"] WITH SOME efflorescence AND RUST STAINS VISIBLE.	2	1	Feet
<input type="checkbox"/> 234	Delamination/Spall	South face under bay 2, delamination [3.5' x 2']	2	4	4 Feet
<input type="checkbox"/> 234	Delamination/Spall	South face under bay 3, delamination [3' x 27"]	2	3	3 Feet
<input type="checkbox"/> 234	Delamination/Spall	South face under beam 2, delamination [23" x 21"]	2	2	2 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	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 205	Cracking (RC and Other)	3 - UP TO 6' X 1/32" VERTICAL CRACKS ON EAST AND WEST FACES NEAR BOTTOM OF CAP	2	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	0	1	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 205	Cracking (RC and Other)	4 - UP TO 7' X 1/16" VERTICAL CRACKS ON WEST AND NORTH FACES NEAR BOTTOM OF CAP	3	1	4 Each

General Comments

Elements Verified

Location	Name	Component	Element Name	Amount
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General Inspection Notes

Span 2

Expansion Joint 1

National Bridge and NC Inspection Items

Structure Number: 110095

Inspection Date: 09/05/2023

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	9
Item 59: Superstructure	0 - 9 , N	9
Item 60: Substructure	0 - 9 , N	8
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	9	0	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C			
Scour	G, F, P, or C			
Wingwall	G, F, P, or C			
Field Scour Evaluation				
Drift	G, F, P, or C		0	3366
Fender System	G, F, P, or C			
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 Inspection Item is not present, leave NC SMU item blank

Inspection Information

Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	N
Inspection Time	Hours	1
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	N
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: 110095

Inspection Date: 09/05/2023

Item	Grade	Maint Code	Qty.
Details			

Structure: 110095

County: BURKE

Date: 09/05/2023

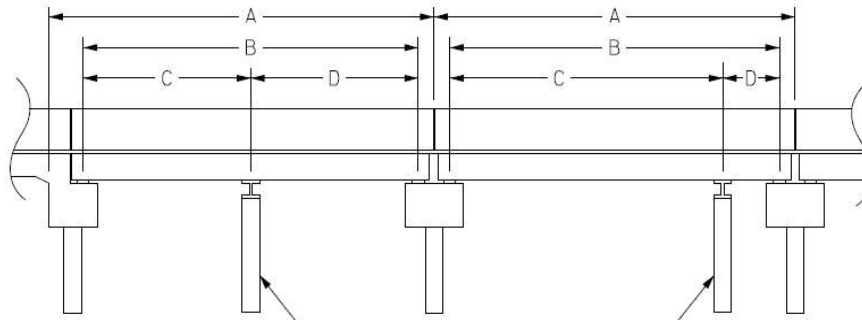
Condition Photos

Structure Data Worksheet

Span Profile

County: **BURKE**

Structure Number: **110095**



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

Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	47.000	45.167			
2	54.000	52.500			
3	54.000	52.500			
4	54.000	52.500			

Structure Number: 110095

Span: 2

Route Name: I 40 E



span 2 vertical clearance looking East

Route Number: 11000400		Route Name: I 40 E			Reference Feature: H	
Minimum Vertical Clearance 15.080 feet		Maximum Minimum Vertical Clearance 15.280 feet				
Total Horizontal Clearance 44.290 feet		Lateral Clearances: Left: 12.470 feet Right: 12.820 feet				
<input checked="" type="checkbox"/> Base Highway Network		LRS Inventory Route, Sub Route Number 10040				
Milepost: 97.690	Number of Lanes: 2	ADT: 15750	Year of ADT: 2015	Percentage of Trucks: 16		
<input checked="" type="checkbox"/> National Highway System			<input type="checkbox"/> STRAHNET Highway Designator			
Functional Classification 11 Local Principal Arterial - Interstate		Direction of Traffic: 1 1 - way traffic				

Structure Number: 110095

Span: 3

Route Name: I 40 W



span 3 vertical clearance looking West

Route Number: 11000400		Route Name: I 40 W			Reference Feature: H	
Minimum Vertical Clearance 15.390 feet		Maximum Minimum Vertical Clearance 15.700 feet				
Total Horizontal Clearance 43.500 feet		Lateral Clearances: Left: 13.750 feet Right 12.000 feet				
<input checked="" type="checkbox"/> Base Highway Network		LRS Inventory Route, Sub Route Number 10040				
Milepost: 97.690	Number of Lanes: 2	ADT: 15750	Year of ADT: 2015	Percentage of Trucks: 16		
<input checked="" type="checkbox"/> National Highway System			<input type="checkbox"/> STRAHNET Highway Designator			
Functional Classification 11 Local Principal Arterial - Interstate		Direction of Traffic: 1 1 - way traffic				



BRIDGE IS UNDER CONSTRUCTION AND CLOSED TO TRAFFIC