NC DEPARTMENT OF TRANSPORTATION

NORTH CRIME

DIVISION OF HIGHWAYS

STRUCTURE MANAGEMENT UNIT

Structure Safety Report

Routine Ele	ement Inspectior	n - Contract	
STRUCTURE NUMBER: 110129 SAP STRUC	TURE NO: 0120129	FHWA STRUCTURE	NO: 00000000230129
DIVISION: 13 COUNTY: BURKE	INSPECTION DATE:	08/17/2023 FREQUE	NCY: 24 MONTHS
FACILITY CARRIED: SR1102		MILE POST:	
LOCATION: .1 MI.S.JCT.SR1159			
FEATURE INTERSECTED: 1-40			
LATITUDE: <u>35° 43' 5.7"</u> LON	NGITUDE: 81° 43' 57.6	4"	
SUPERSTRUCTURE: REINFORCED CONCRETE FLOO	OR ON I-BEAMS		
SUBSTRUCTURE: E.BTS:RC CAPS/PPC PILES;INT.BTS	S:RCP&B/PILE FOOTIN	NGS	
SPANS: _ 4 SPANS. SEE SPAN PROFILE SHEET FOR	R SPAN DETAILS		
			AN OF ACTION
GRADES: (Inspector/NBI Coding) DECK 6/6 SUPER	STRUCTURE 5/5	SUBSTRUCTURE 5/5	CULVERT N/N
POSTED SV: Not Posted	POSTED T	ST: Not Posted	

OTHER SIGNS PRESENT: none



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

11/09/2023

1) STATE NAME NORTH CAROLINA BRIDGE 1	10129	SUFFICIENCY RATING		76
	30129	STATUS =		
	11020	CL	ASSIFICATION	COD
2) STATE HIGHWAY DEPARTMENT DISTRICT 3) COUNTY CODE (FEDERAL) 23 (4) PLACE CODE	13 44400	(112) NBIS BRIDGE SYSTEM		
6) FEATURE INTERSECTED I-40	44400	(104) HIGHWAY SYSTEM	Inventory Route not on NHS	
7) FACILITY CARRIED SR1102		(26) FUNCTIONAL CLASS	Urban Minor Collector	
9) LOCATION .1 MI.S.JCT.SR1159		(100) STRAHNET HIGHWAY	Not a STRAHNET Route	
11) MILEPOINT	0.0	(101) PARALLEL STRUCTURE		
	0	(102) DIRECTION OF TRAFFIC	2-way traffic	
13) LRS INVENTORY ROUTE & SUBROUTE (16) LATITUDE 35° 43' 5.7" (17) LONGITUDE 81° 43' !	0 57 64"	(103) TEMPORARY STRUCTURE		
98) BORDER BRIDGE STATE CODE PERCENT SHARED	57.04	(110) DESIGNATED NATIONAL NE	TWORK - on national network for trucks	
99) BORDER BRIDGE STRUCTURE NUMBER		(20) TOLL	On Free Road	
		(21) MAINT -		
	Chaol			
43) STRUCTURE TYPE MAIN TYPE Stringer/Multi-beam or girder CODE	Steel 302	(22) OWNER -		
.	302	(37) HISTORICAL SIGNIFICANCE -		
44) STRUCTURE TYPE APPROACH			CONDITION	COE
TYPE CODE				
	4			
46) NUMBER OF SPANS IN APPROACH	0	(60) SUBSTRUCTURE		
107) DECK STRUCTURE TYPE CODE	1	(61) CHANNEL & CHANNEL PROTE	ECTION	
108)WEARING SURFACE/PROTECTIVE SYSTEM		(62) CULVERTS		
(A) TYPE OF WEARING SURFACE CODE	6			COI
(B) TYPE OF MEMBRANE CODE	0	(31) DESIGN LOAD	HS 15	
(C) TYPE OF DECK PROTECTION CODE	0	(63) OPERATING RATING METHO	D - Load Factor	
AGE AND SERVICE		(64) OPERATING RATING -	HS-41	
27) YEAR BUILT	1956	(65) INVENTORY RATING METHOD) -	
106) YEAR RECONSTRUCTED	0	(66) INVENTORY RATING	HS-24	
42) TYPE OF SERVICE ON - Hig	ghway	(70) BRIDGE POSTING	No Posting Required	
OFF - Highway CODE	11	(41) STRUCTURE OPEN, POSTED,	, OR CLOSED	
28) LANES ON STRUCTURE 2 LANES UNDER STRUCTURE	4	DESCRIPTION	Open, no restriction	
29) AVERAGE DAILY TRAFFIC	2000		APPRAISAL	COI
30) YEAR OF ADT 2019 (109) TRUCK ADT PCT	6	(67) STRUCTURAL EVALUATION		
9) BYPASS OR DETOUR LENGTH	7.0	(68) DECK GEOMETRY		
GEOMETRIC DATA		(69) UNDERCLEARANCES, VERT &	& HORIZ	
48) LENGTH OF MAXIMUM SPAN	69.0	(71) WATERWAY ADEQUACY		
49) STRUCTURE LENGTH	272.0	(72) APPROACH ROADWAY ALIGN	IMENT	
50) CURB OR SIDEWALK: LEFT 1.6 RIGHT	1.6	(36) TRAFFIC SAFETY FEATURES		
51) BRIDGE ROADWAY WIDTH, CURB TO CURB (52) DECK WIDTH OUT TO OUT	28.0 33.5	(113) SCOUR CRITICAL BRIDGES		
32) APPROACH ROADWAY WITH (W/ SHOULDERS)	25.0	(),	ED IMPROVEMENTS	
33) BRIDGE MEDIAN CODE	5	(75) TYPE OF WORK		E
34) SKEW 42 (35) STRUCTURE FLARED	0111	(76) LENGTH OF STRUCTURE IMP		
10) INVENTORY ROUTE MIN VERT CLEAR	999.9	(94) BRIDGE IMPROVEMENT COS		
	0.0	(95) ROADWAY IMPROVEMENT CO		
53) MIN VERT CLEAR OVER BRIDGE RDWY 54) MIN VERT UNDERCLEAR: REFERENCE H	999.9 14.7			
55) MIN LAT UNDERCLEARANCE RT: REFERENCE H	14.7	(96) TOTAL PROJECT COST		
56) MIN LAT UNDERCLEARANCE LT:	12.8	(97) YEAR OF IMPROVEMENT COS		
		(114) FUTURE ADT	4,000 YEAR OF FUTURE ADT	
AVIGATION CONTROL - CODE	5	(90) INSPECTION DATE	08/23 (91) FREQUENCY	
111) PIER PROTECTION CODE	5	(92) CRITICAL FEATURE INSPECT		E
,	0.0	A) FRACTURE CRIT DETAIL	A)	-
	0.0			
116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR	0.0		B)	
40) NAVIGATION HORIZONTAL CLEARANCE	0.0	C) OTHER SPECIAL INSP	C)	

			ertical							affic	ee			See N	lote Be	low			c	
Span Number	lity Carr	Inventory Route	Maximum Minimum Verti Clearance	Milepoint	Base Highway	LRS Inventory Route	Functional Classification	Number of Lanes	Average Daily Traffic	Year of Average Daily Tr	Total Horizontal Clearan	Reference Feature	Minimum Vertical Underclearance	Rigth Lateral Underclearance	Left Lateral Underclearance		STRAHNET Highway	Direction of Traffic	National Highway System	National Truck Network
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
	2 I 40 EBL	11000400	14.8	100.9	1	10040	11	2	17000	2015	43.0	н	14.7	11.0	12.8	3		1		
	3 I 40 W	11000400	15.8	100.9	1	10040	11	2	17000	2015	42.5	н	15.4	10.0	13.6	4		1		

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

Superstructure Build Details

Skew 48.000

Span Length 62.000

Span Number 1

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
4	Fixed Bearing	Fixed Bearing	4	Each	Legacy Non Lead Primer System with various Topcoats	4
2	Concrete Railing	Reinforced Concrete Bridge Railing	124	Feet		
1	Asphalt Wearing Surface	Wearing Surface	1736	Square Feet		
1	Standard Joint	Pourable Joint Seal	48	Feet		
4	Plate Girder	Steel Open Girder/Beam	248	Feet	Legacy Non Lead Primer System with various Topcoats	2412
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1953	Square Feet		
4	Movable Bearing	Movable Bearing	4	Each	Legacy Non Lead Primer System with various Topcoats	4
Span Nu	imber <u>2</u> Sp	oan Length <u>70.000</u>		Sk	xew 48.000	1

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
2	Concrete Railing	Reinforced Concrete Bridge Railing	140	Feet		
1	Asphalt Wearing Surface	Wearing Surface	1960	Square Feet		
1	Standard Joint	Pourable Joint Seal	48	Feet		
4	Fixed Bearing	Fixed Bearing	4	Each	Legacy Non Lead Primer System with various Topcoats	4
4	Movable Bearing	Movable Bearing	4	Each	Legacy Non Lead Primer System with various Topcoats	4
1	Reinforced Concrete Deck	Reinforced Concrete Deck	2205	Square Feet		
4	Plate Girder	Steel Open Girder/Beam	280	Feet	Legacy Non Lead Primer System with various Topcoats	2740
Span Nu	ımber <u>3</u> Sp	oan Length <u>70.000</u>		Sk	ew 48.000	

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
4	Movable Bearing	Movable Bearing	4	Each	Legacy Non Lead Primer System with various Topcoats	4
1	Asphalt Wearing Surface	Wearing Surface	1960	Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	140	Feet		

Superstructure Build Details

4	Fixed Bearing	Fixed Bearing	4	Each	Legacy Non Lead Primer System with various Topcoats	4
1	Standard Joint	Pourable Joint Seal	48	Feet		
4	Plate Girder	Steel Open Girder/Beam	280	Feet	Legacy Non Lead Primer System with various Topcoats	2740
1	Reinforced Concrete Deck	Reinforced Concrete Deck	2205	Square Feet		
Span	Number <u>4</u> Sr	oan Length <u>70.000</u>		Sk	zew 48.000	

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
2	Concrete Railing	Reinforced Concrete Bridge Railing	140	Feet		
1	Asphalt Wearing Surface	Wearing Surface	1960	Square Feet		
4	Plate Girder	Steel Open Girder/Beam	276	Feet	Legacy Non Lead Primer System with various Topcoats	2720
4	Fixed Bearing	Fixed Bearing	4	Each	Legacy Non Lead Primer System with various Topcoats	4
1	Standard Joint	Pourable Joint Seal	48	Feet		
4	Movable Bearing	Movable Bearing	4	Each	Legacy Non Lead Primer System with various Topcoats	4
1	Reinforced Concrete Deck	Reinforced Concrete Deck	2205	Square Feet		

Structure Element Scoring

Structure Number: 110129

Inspection Date 8/17/2023

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12		Reinforced Concrete Deck	Deck	8,568	8,064	502	2	0
107		Steel Open Girder/Beam	Beam	1,084	1,007	47	29	1
515	107	Steel Protective Coating	Beam	10,612	10,585	0	0	27
205		Reinforced Concrete Column	Piles and Columns	9	5	3	1	0
215		Reinforced Concrete Abutment	Abutments	90	82	0	8	0
220		Reinforced Concrete Pile Cap/Footing	Footing	15	15	0	0	0
226		Prestressed Concrete Pile	Piles and Columns	12	12	0	0	0
234		Reinforced Concrete Pier Cap	Caps	208	120	64	24	0
301		Pourable Joint Seal	Expansion Joints	192	192	0	0	0
311		Movable Bearing	Bearing Device	16	0	13	3	0
515	311	Steel Protective Coating	Bearing Device	16	0	1	3	12
313		Fixed Bearing	Bearing Device	16	2	4	10	0
515	313	Steel Protective Coating	Bearing Device	16	4	0	0	12
331		Reinforced Concrete Bridge Railing	Bridge Rail	544	533	11	0	0
510		Wearing Surface	Wearing Surfaces	7,616	4,615	8	2,993	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 110129

Inspection Date: 08/17/2023

MMS Code	Element Name	Defect Name	Recommended Quantity		
3326	Reinforced Concrete Deck	Delamination/Spall	5 Square Feet		
3326	Reinforced Concrete Deck	Cracking (RC and Other)	497 Square Feet		
3314	Steel Open Girder/Beam	Corrosion	10 Feet		
3348	Reinforced Concrete Column	Delamination/Spall	2 Each		
3350 Reinforced Concrete Abutment		rced Concrete Abutment Delamination/Spall			
3348 Reinforced Concrete Pier Cap		Cracking (RC and Other)	23 Feet		
3348	Reinforced Concrete Pier Cap	Delamination/Spall	6 Feet		
3334	Movable Bearing	Corrosion	2 Each		
3334	Fixed Bearing	Corrosion	10 Each		
3318	Reinforced Concrete Bridge Railing	Exposed Rebar	6 Feet		
3318	Reinforced Concrete Bridge Railing	Delamination/Spall	5 Feet		
2816	Wearing Surface	Patched Area/Pothole (Wearing Surface)	18 Square Feet		
2816	Wearing Surface	Crack (Wearing Surface)	2975 Square Feet		
3342 Steel Protective Coating Effectiveness (Steel Protective Coatings) 55 Square Feet					

Element Structure Maintenance Quantities

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Beam	3314	Maintenance Steel Superstructure Components	30	1084	1.000	29.000	47.000	1007.000
Beam	3342	Clean and Paint Steel	27	10612	27.000	0.000	0.000	10585.00
Bearing Device	3334	Bridge Bearing	3	16	0.000	3.000	13.000	0.000
Bearing Device	3334	Bridge Bearing	10	16	0.000	10.000	4.000	2.000
Bearing Device	3342	Clean and Paint Steel	16	16	12.000	3.000	1.000	0.000
Bearing Device	3342	Clean and Paint Steel	12	16	12.000	0.000	0.000	4.000
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	11	544	0.000	0.000	11.000	533.000
Deck	3326	Maintenance of Concrete Deck	502	8568	0.000	2.000	502.000	8064.000
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	192	0.000	0.000	0.000	192.000
Wearing Surfaces	2816	Asphalt Surface Repair	2993	7616	0.000	2993.000	8.000	4615.000
Abutments	3350	Maintenance of Concrete Wings and Wall	8	90	0.000	8.000	0.000	82.000
Caps	3348	Maintenance of Concrete Substructure	29	208	0.000	24.000	64.000	120.000
Footing	3348	Maintenance of Concrete Substructure	0	15	0.000	0.000	0.000	15.000
Piles and Columns	3348	Maintenance of Concrete Substructure	2	9	0.000	1.000	3.000	5.000
Piles and Columns	3348	Maintenance of Concrete Substructure	0	12	0.000	0.000	0.000	12.000

Priority Actions Request

3326	Deck	Reinforced Co	ncrete Deck
Priority Level		Quantity	Defect Description
2	Defect Type	Quantity 1	•
2	Delamination/Spall	I	Span 2 Deck: (PAR) west overhang over bent 1, spall (18 inch x 6 inch x 1/2 inch deep) with exposed rusted rebar
3314	Beam 1	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Distortion	20	Span 2 Beam 1: (PAR) 2023 no apparent change: SUPPLEMENTAL INSPECTIO IMPACT DAMAGE 2022 : INITIAL POINT OF IMPACT ON BEAM 1 14 FEET 7 INCHES FROM FACE OF BENT 1. BEAM 1 IS OUT OF PLUMB 2 INCHES IN TI DIRECTION OF TRAFFIC FOR THE LENGTH OF 20 FEET AND INDENTION IN COVER PLATE 3 FEET X 2 INCHES IN THE IMPACT AREA. AN INDENTION IN FLANGE 8 INCHES X 1/4 INCHES AT 21 FEET 3 INCHES, A 8 INCHES X 1/4 INCHES AT 22 FEET 11 INCHES A5 INCHES X 1/16 INCHES AT 17 FEET 4 INCHES, A 29 INCHES X 1/2 INCHES AT 27 FEET ZERO INCHES ALL FROM FACE OF BENT 1. INDENTIONS IN FLANGE COVER PLATE 6 INCHES X 1/16 INCHES AT 23 FEET FOUR INCHES, A 6 INCHES X 1/16 INCHES AT 22 FEET INCHES, A 8 INCHES X 1/32 INCHES AT 21 FEET 6 INCHES, A EIGHT INCHES 1/16 INCHES AT 21 FEET 1 INCHES, A 8 INCHES X 1/16 INCHES AT 18 FEET INCHES, A 6 INCHES X 1/32 INCHES AT 16 FEET FOUR INCHES, A 1 INCHES 1/32 INCHES AT 25 FEET FIVE INCHES ALL FROM FACE OF BENT 1. GOUGE IN FLANGE COVER PLATE ONE INCHES X FOUR INCHES X 1/16 INCHES AT FEET ONE INCHES AND 3/4 INCHES X 3 INCHES X 1/16 INCHES AT 27 FEET INCHES FROM FACE OF BENT 1.
3314	Beam 4	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Distortion	25	Span 2 Beam 4: (PAR) 2023 no apparent change; cracks not verified SUPPLEMENTAL INSPECTION 2022: POINT OF IMPACT 36 FEET 11 INCHES OUT FROM INTERIOR BENT 1, 15 INCHES LONG BOTTOM FLANGE BENT UPWARD 1 INCH .THERE IS A 7 INCH LONG HAIRLINE CRACK IN THE WELD ATTACHING THE BOTTON COVER PLATE TO THE BOTTOM FLANGE LEFT SIDE AT 36 FEET 5 INCHES OUT FROM INTERIOR BENT 1. SCATTERED SCRAPS WITH UP TO 1 INCH INDENTIONS THROUGHOUT ON BOTTOM COVER PLATE . BEAM 4 SWEPT EASTWARD UP TO 2 INCHES. POSSIBLE HAIRLINE CRACK 1 INCH UP RIGHT FACE OF WEB UP TO 2 INCH LONG AT DIAPHRAM 3 ,23 FEET 3 INCHES FROM INTERIOR BENT 2 .
an3			
3314	Beam 3	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 3 Beam 3: (PAR) at bent 3, web adjacent to end diaphragm, corrosion with section loss (7/16 inch average remaining x 10 inch x 2.5 inch)
3314	Beam 4	Plate Girder	

Priority Actions Request

Structure Numb	per 110129		
Priority Level	Defect Type	Quantity	Defect Description
2	Connection	0	Span 3 Beam 4: (PAR) DIAPHRAGM OVER BENT 3 UNDER RIGHT OVERHANG, DELAMINATION/SPALL [FULL HEIGHT X 2 FOOT X 2 INCHES DEEP] WITH TWO [2] EXPOSED RUSTED REINFORCING WITH APPROXIMATELY 25 PERCENT LOSS
Approach Guardrail and Barriers			
3120	Approach Guardrail and Barriers	Approach Gua	rdrail and Barriers
Priority Level	Defect Type	Quantity	Defect Description
2		1	(PAR) northeast guardrail termination, impact damage
2		5	(PAR) north approach asphalt wearing surface, northbound lane near end bent 2, broken asphalt (3 foot x 2 foot x 1.5 inch deep)

? Priority Action Request (PAR) 1 Assigned Routine Maintenance

2 Assigned Priority Maintenance 3 Assigned Critical Find

Element Condition and Maintenance Data

Structure Number: 110129 Inspection Date: 08/17/2023 Deck Span 1 **Reinforced Concrete Deck** Element Total CS1 CS2 CS3 CS4 Number **Element Name** Qty Qty Qty Qty Qty 12 Reinforced Concrete Deck 1,953 1,833 120 0 0 Square Feet Element Maint cs CS Qty **Defect Type Defect Description** Number Qty Cracking (RC and ALONG BOTH OVERHANGS, TRANSVERSE 2 20 20 Square Feet ✓ 12 Other) CRACKS UP TO 1/32 INCH X FULL WIDTH Cracking (RC and BOTTOM OF DECK HAS SCATTERED AREAS OF 2 100 V 12 100 Square Feet Other) TRANSVERSE CRACKS UP TO 1/32 INCHES X FULL WIDTH SOME WITH EFFLORESCENCE AT RANDOM THROUGHOUT 12 DEFECT NOT FOUND 08/06/2019 1 Efflorescence/Rust Square Feet Staining **General Comments** Span 1 Beam 3 **Plate Girder** Element Total CS1 CS2 CS3 CS4 **Element Name** Number Qty Qty Qty Qty Qty 107 Steel Open Girder/Beam 62 60 2 0 0 Feet 0 0 2 Square Feet 515 Steel Protective Coating 603 601 Element Maint CS Qty **Defect Type Defect Description** CS Number Qty **107** 2 2 Corrosion at bent 1, web adjacent to end diaphragm, rust scale Feet (13 inch) ✓ 515 Effectiveness (Steel rust scale 4 2 2 Square Feet Protective Coatings) **General Comments** Span 1 Beam 4 **Plate Girder** CS2 CS4 Element CS1 CS3 Total **Element Name** Number Qty Qty Qty Qty Qty 107 Steel Open Girder/Beam 2 0 Feet 62 60 0 515 Steel Protective Coating 603 601 0 0 2 Square Feet Element Maint cs **Defect Type Defect Description** CS Qty Number Qty V 107 at bent 1, web adjacent to end diaphragm, rust scale 2 2 Corrosion Feet (13 inch) 🗸 515 2 Effectiveness (Steel rust scale 4 2 Square Feet Protective Coatings) **General Comments**

Structure Number:	<u>110129</u>
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Left Bridge Rail

Span 1

Concrete Railing

Elem Numl 331	ber	Element Name rced Concrete Bridge Railing	Total Qty 62	CS1 Qty 58	CS2 Qty 4	CS3 Qty 0	CS4 Qty 0 Feet	
Element Number	Defect Type	Defect Descri	ption		CS	CS Qty	Maint Qty	
✔ 331	Exposed Rebar	(4) UP TO 5 INCHES DIAMETER X SPALLS WITH EXPOSED REINFO FROM END BENT 1 NO SECTION	RCING 20 FEET		2	4	4 Feet	

General Comments

Spa	an 1		Near Bearing 1					
Fixe	ed Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fiz	ked Bearing	1	0	0	1	0	Each
515	St	eel Protective Coating	1	0	0	0	1	Square Feet
Elemer Numbe	Defect Tu	06	Defect Description		cs	CS Qty	Maint Qty	
<mark>√</mark> 313	Corrosion	corrosion with section	n loss (up to 1/8 inch loss)		3	1	-	1 Each
√ 515	Effectiveness (S Protective Coati		n loss		4	1		1 Square Feet
	General Comme	nts						

Span	1
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Far Bearing 1

Movable Bearing

Elen Nun	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
311	Movable	e Bearing	1	0	1	0	0 Each
515	Steel Pr	otective Coating	1	0	0	0	1 Square Feet
Elemen Number	Defect Turne	Defect Descripti	ion		CS	CS Qty	Maint Qty
7 311	Corrosion	surface rust/rust scale			2	1	Each
∕ 515	Effectiveness (Steel Protective Coatings)	surface rust/rust scale			4	1	1 Square Feet

General Comments

Span 1

Far Bearing 2

Movable Bearing

	.						
	nent nber Movable	Element Name	Total Qty 1	CS1 Qty 0	CS2 Qty 1	CS3 Qty 0	CS4 Qty 0 Each
515		otective Coating	1	0	0	0	1 Square Feet
Elemen Numbe	Defect Type	Defect Descriptio	n		CS	CS Qty	Maint Qty
✓ 311	Corrosion	surface rust/rust scale			2	1	Each
✓ 515	Effectiveness (Steel Protective Coatings)	surface rust/rust scale			4	1	1 Square Feet

General Comments

Span 1		Near Beari	ng 3					
Fixed B	earing							
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed E	earing	1	0	1	0	0	Each
515	Steel P	rotective Coating	1	1	0	0	0	Square Feet
Element Number	Defect Type	Defect Desc	cription		CS	CS Qty	Maint Qty	
313 Cor	rosion	painted over pitting (up to 1/16 inc	ch deep)		2	1		Each

General Comments

Spa	an 1		Far Bearing 3						
Мо	vable Bearing								
	ment mber	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Мо	vable Bearing		1	0	1	0	0	Each
515	Ste	el Protective Coating		1	0	0	1	0	Square Feet
Elemer Numbe	Defect Typ	9	Defect Description			CS	CS Qty	Maint Qty	
√ 311	Corrosion	surface rust				2	1		Each
✓ 515	Effectiveness (St Protective Coatin					3	1		1 Square Feet
	General Commen	ts							

Spa Fixe	n 1 ed Bearing	Near Beari	ng 4					
Elen Num	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Be	earing	1	0	0	1	0	Each
515	Steel Pr	otective Coating	1	0	0	0	1	Square Feet
Elemen Number	Dofoot Typo	Defect Desc	ription		CS	CS Qty	Maint Qty	
√ 313	Corrosion	corrosion with section loss (up to	1/8 inch loss)		3	1		1 Each
√ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet

General Comments

Span 1

Far Bearing 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	1	0	0	Square Feet
Element Number	Defect Type	Defect Description			CS	CS Qty	Maint Qty	

Structure	Number: <u>110129</u>		Inspec	tion Date: 08/17/2023	
✓ 311	Corrosion	surface rust	2	1	Each
√ 515	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1 Square Feet
	General Comments				

Span	1
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Wearing Surface

Asphalt Wearing Surface

	nent nber Wearing	Element Name Surface	Total Qty 1,736	CS1 Qty 1,083	CS2 Qty 0	CS3 Qty 653	CS4 Qty 0 S	quare Feet
Elemen Numbe	Defect Type	Defect Description			CS	CS Qty	Maint Qty	
√ 510	Crack (Wearing Surface)	35 FEET X UP TO 1/4 INCHES TRANSV CRACK OVER END BENT 1	ERSE		3	35	35	Square Feet
√ 510	Crack (Wearing Surface)	ASPHALT WEARING SURFACE HAS SC MAP CRACKING UP TO 1/32 INCHES TH OUT			3	600	600	Square Feet
√ 510	Patched Area/Pothole (Wearing Surface)	ASPHALT WEARING SURFACE IS BRO UP/PARTIALLY PATCH AND DEPRESS X 6 FEET X 1 INCH DEEP AREA 12 FEE END BENT 1 AND 9 FEET FROM RIGHT	IN A 4 FEE T FROM	т	3	18	18	Square Feet

General Comments

Span 2

Deck

Reinforced Concrete Deck

Element Number		Element Name	Total Qty 2.205	CS1 Qty 2.074	CS2 Qty 129	CS3 Qty	CS4 Qty	
12	Reinion	Reinforced Concrete Deck		2,074	129	2	0 5	Square Feet
Element Number	Dofact Type	Defect Descri	ption		CS	CS Qty	Maint Qty	
∕ 12	Delamination/Spall	(PAR) west overhang over bent 1, s inch x 1/2 inch deep) with exposed			3	2	2	Square Feet
	Cracking (RC and Other)	SUPPLEMENTAL INSPCETION IN 2022 , SCATTERED HAIRLINE CR			2	4	2	Square Feet
	Cracking (RC and Other)	THROUGHOUT UNDERSIDE OF I TRANSVERSE CRACKS [UP TO F INCH	,		2	125	125	Square Feet
	Efflorescence/Rust Staining	DEFECT NOT FOUND 08/05/2019			1			Square Feet

General Comments

Span 2

Beam 1

Plat	e Girder								
	nent nber		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107		Steel Open G	irder/Beam	70	47	3	20	0	Feet
515		Steel Protecti	ve Coating	685	682	0	0	3	Square Feet
Elemen Numbe	Dofoot	Туре	Defect Des	scription		CS	CS Qty	Maint Qty	
v 107	Damage	imp	oact damage			3			Feet

Structure	Number: <u>110129</u>			Inspe	ction Date: 08/17/2023
√ 107	Corrosion	at bent 2, web adjacent to end diaphragm, rust scale (10 inch)	2	1	Feet
✓ 107	Distortion	2023 new repair, previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022 : INITIAL POINT OF IMPACT ON BEAM 1 14 FEET 7 INCHES FROM FACE OF BENT 1. BEAM 1 IS OUT OF PLUMB 2 INCHES IN THE DIRECTION OF TRAFFIC FOR THE LENGTH OF 20 FEET AND INDENTION IN COVER PLATE 3 FEET X 2 INCHES IN THE IMPACT AREA. AN INDENTION IN FLANGE 8 INCHES X 1/4 INCHES AT 21 FEET 3 INCHES, A 5 INCHES X 1/4 INCHES AT 22 FEET 11 INCHES A 5 INCHES X 1/4 INCHES AT 27 FEET ZERO INCHES X 1/2 INCHES AT 17 FEET 4 INCHES, A 29 INCHES X 1/2 INCHES AT 27 FEET ZERO INCHES ALL FROM FACE OF BENT 1. INDENTIONS IN FLANGE COVER PLATE 6 INCHES X 1/16 INCHES AT 23 FEET FOUR INCHES, A 6 INCHES X 1/16 INCHES AT 21 FEET 6 INCHES, A 8 INCHES X 1/32 INCHES AT 21 FEET 6 INCHES, A 8 INCHES X 1/32 INCHES AT 21 FEET 6 INCHES, A 8 INCHES X 1/32 INCHES AT 1/32 INCHES AT 18 FEET 9 INCHES, A 6 INCHES X 1/32 INCHES AT 16 FEET FOUR INCHES, A 1 INCHES X 1/32 INCHES AT 25 FEET FIVE INCHES ALL FROM FACE OF BENT 1. GOUGES IN FLANGE COVER PLATE ONE INCHES X FOUR INCHES X 1/32 INCHES AT 25 FEET FIVE INCHES X 1/32 INCHES AT 26 FEET FIVE INCHES X 1/32 INCHES AT 27 FEET ONE INCHES, A 1 INCHES X 1/32 INCHES AT 27 FEET ONE INCHES, A 1 INCHES X 1/32 INCHES AT 21 FEET ONE INCHES, A 1 INCHES X 1/32 INCHES AT 25 FEET FIVE INCHES X 1/36 INCHES AT 21 FEET ONE INCHES, A 1 INCHES X 1/36 INCHES AT 21 FEET ONE INCHES, A 1 INCHES X 1/36 INCHES AT 21 FEET ONE INCHES AND 3/4 INCHES X 3 INCHES X 1/16 INCHES AT 27 FEET 2 INCHES FROM FACE OF BENT 1.	2	20	Feet
√ 107	Distortion	UP TO 6 INCHES DIAMETER X UP TO 1 INCH SPALLS WITH EXPOSED REINFORCING BENT 2 DIAPHRAGM BAY 1 - NOT LOCATED 8/25/21	1		Feet
✓ 515	Effectiveness (Steel Protective Coatings)	rust scale	4	3	3 Square Feet

General Comments

Span	2
Diata	Cirdor

Beam 2

Plate Girder

	nent nber	Steel On	Element Name en Girder/Beam	Total Qty 70	CS1 Qty 65	CS2 Qty 5	CS3 Qty 0	CS4 Qty	
		•				-	-	-	
515		Steel Pro	tective Coating	685	682	0	0	3	Square Feet
Elemen Numbe	Defect	Туре	Defect Description			CS	CS Qty	Maint Qty	
√ 107	Connection		8 INCH X UP TO 5 INCH X 1/2 INCH DEE WITH EXPOSED REINFORCING BOTTC BENT 1 DIAPHRAGM IN BAY 2	-		2			Feet
v 107	Corrosion		at bent 1, web adjacent to end diaphragm flange, rust scale (13 inch)	and bottom		2	2		Feet
v 107	Corrosion		at bent 2, web adjacent to end diaphragm (10 inch)	, rust scale		2	1		Feet
107	Damage		impact damage			2			Feet
V 107	Distortion		2023 new repair, previously noted as: SUPPLEMENTAL INSPECTION 2022 PC IMPACT ON BEAM 2 27 FEET 6 INCHES FACE OF BENT 1. GOUGES IN FLANGE PLATE 1/2 INCHES X 14 INCHES X 1/16 AND A INDENTION IN FLANGE COVER INCHES X 1/32 INCH , A INDENTION IN 1/2 INCHES X 1/16 INCHES ALL IN THE AREA.	FROM COVER INCHES PLATE 6 FLANGE 1		2	2		Feet
515	Effectiveness Protective Co	`	rust scale			4	1		1 Square Feet

 ✓ 515
 Effectiveness (Steel Protective Coatings)
 rust scale

General Comments

4

Spa	an 2	Beam 3						
Pla	te Girder							
Nu	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107		Open Girder/Beam	70	64	5	1	0 F	
515	Steel	Protective Coating	685	682	0	0	3 5	Square Feet
Elemer Numbe	Defect Type	Defect Descr	iption		CS	CS Qty	Maint Qty	
√ 107	Corrosion	at bent 2, web adjacent to end diap with section loss (9/16 inch average inch x 1 inch)			3	1	1	Feet
v 107	Corrosion	at bent 1, web adjacent to end diap flange, rust scale (13 inch)	hragm and bottom		2	2		Feet
√ 107	Distortion	2023 new repair, previously noted a SUPPLEMENTAL INSPECTION 20 IMPACT ON BEAM 3 26 FEET 1 IN FACE OF BENT 1. A INDENTION THREE INCHES X 1/2 INCHES AN 1/2 INCHES IN THE IMPACT ARE	021: POINT OF NCHES FROM IN COVER PLATE ND A 2 INCHES X		2	3		Feet
v 107	Distortion	ind			2			Feet
√ 515	Effectiveness (Stee Protective Coatings				4	1	1	Square Feet
✓ 515	Effectiveness (Stee Protective Coatings				4	2	2	Square Feet

General Comments

Span 2

Beam 4

Plate Girder

Eler Nun 107		Element Name Steel Open Girder/Beam	Total Qty 70	CS1 Qty 43	CS2 Qty 26	CS3 Qty 1	CS4 Qty 0 Feet
515		Steel Protective Coating	685	683	0	0	2 Square Feet
Elemen Numbe	Dofoct 1	Type Defect Descr	iption		CS	CS Qty	Maint Qty
√ 107	Damage	impact damage			4		Feet
√ 107	Corrosion	at bent 2, web adjacent to end diap with section loss (9/16 inch average inch x 1 inch)	U .		3	1	1 Feet
√ 107	Corrosion	at bent 1, corrosion with section los 1/16 inch loss x 1 foot x 10 inch); b than 1/16 inch loss x 1 foot)	(2	1	Feet

Structure	Number: 110129					Ins	spection Date: 08/17/2023
✓ 107	Distortion	2023 new repair, previously noted as: SUPPLEMENTAL INSPECTION 2022: F IMPACT 36 FEET 11 INCHES OUT FRO BENT 1, 15 INCHES LONG BOTTOM F BENT UPWARD 1 INCH .THERE IS A 7 HAIRLINE CRACK IN THE WELD ATTA BOTTON COVER PLATE TO THE BOT LEFT SIDE AT 36 FEET 5 INCHES OUT INTERIOR BENT 1. SCATTERED SCR/ TO 1 INCH INDENTIONS THROUGHO BOTTOM COVER PLATE . BEAM 4 SW EASTWARD UP TO 2 INCHES. POSSIE CRACK 1 INCH UP RIGHT FACE OF V 2 INCH LONG AT DIAPHRAM 3,23 FEE FROM INTERIOR BENT 2.	DM INTERIOR FLANGE 'INCH LONG ACHING THE TOM FLANGE FROM APS WITH UP UT ON VEPT BLE HAIRLINE WEB UP TO		2	25	Feet
√ 515	Effectiveness (Steel Protective Coatings) General Comments	corrosion with section loss			4	2	2 Square Feet
-							
•	an 2	Bet 2 Expansior	n Joint				
	indard Joint		Total	CS1	CS2	CS3	CS4
Nu	mber	Element Name	Qty	Qty	Qty	Qty	Qty
301	Pourabl	e Joint Seal	48	48	0	0	0 Feet
Elemei Numbe	Defect Turne	Defect Description	า		CS	CS Qty	Maint Qty
301	Debris Impaction	MOVED TO ASPHALT WEARING SURI	FACE		1		Feet
	General Comments						
Spa	an 2	Left Bridge Rail					
Coi	ncrete Railing	-					
	ement mber Reinford	Element Name ced Concrete Bridge Railing	Total Qty 70	CS1 Qty 68	CS2 Qty 2	CS3 Qty 0	CS4 Qty 0 Feet
Elemei Numbe		Defect Description	า		cs	CS Qty	Maint Qty
√ 331	Delamination/Spall	at midspan, (2) spalls (3 inch diameter x deep) with exposed rusted rebar	1/2 inch		2	2	2 Feet
	General Comments						
Spa	an 2	Right Bridge Ra	il				
Со	ncrete Railing						
	mont	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
Ele Nu 331	mber	ced Concrete Bridge Railing	70	68	2	0	0 Feet
Nu 331 Elemei	mber Reinford	ced Concrete Bridge Railing		68			Maint
Nu 331	mber Reinford		n CH SPALLS	68	2 CS 2	0 CS Qty 2	

Span 2

Movable	Bearing
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er	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Movable	Bearing	1	0	1	0	0	Each
Steel Pro	btective Coating	1	0	0	0	1	Square Feet
Defect Type	Defect Description			cs	CS Qty	Maint Qty	
Corrosion	surface rust/rust scale			2	1	-	Each
ffectiveness (Steel Protective Coatings)	surface rust/rust scale			4	1		1 Square Feet
	Steel Pro Defect Type corrosion ffectiveness (Steel	ffectiveness (Steel surface rust/rust scale surface ru	Defect Type Defect Description corrosion surface rust/rust scale ffectiveness (Steel rotective Coatings) surface rust/rust scale	Steel Protective Coating 1 0 Defect Type Defect Description corrosion surface rust/rust scale ffectiveness (Steel rotective Coatings) surface rust/rust scale	Steel Protective Coating 1 0 0 Defect Type Defect Description CS corrosion surface rust/rust scale 2 ffectiveness (Steel rotective Coatings) surface rust/rust scale 4	Steel Protective Coating 1 0 0 0 Defect Type Defect Description CS CS Qty corrosion surface rust/rust scale 2 1 ffectiveness (Steel rotective Coatings) surface rust/rust scale 4 1	Steel Protective Coating 1 0 0 0 1 Defect Type Defect Description CS CS Qty Maint Qty corrosion surface rust/rust scale 2 1 ffectiveness (Steel rotective Coatings) surface rust/rust scale 4 1

	Spa	an 2			Far Bearing 1						
	Fixe	ed Bearin	g								
		ment mber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
	313		Fixed B	earing		1	0	1	0	0	Each
	515		Steel Pr	otective Coating		1	0	0	0	1	Square Feet
	Elemer Numbe	Dofo	ct Type		Defect Description			CS	CS Qty	Maint Qty	
	✓ 313	Corrosion		surface rust/rust sca	ale			2	1		Each
•	✓ 515	Effectivene Protective		surface rust/rust sca	ale			4	1		1 Square Feet
		General Co	mments								

General Comments

Span 2

Near Bearing 2

Movable Bearing

Elen Num	nent nber	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	e Bearing		1	0	1	0	0	Each
515	Steel Pr	rotective Coating		1	0	0	0	1	Square Feet
Elemen Number	Defect Type		Defect Description			CS	CS Qty	Maint Qty	
<mark>√</mark> 311	Corrosion	rust scale				2	1	-	Each
√ 515	Effectiveness (Steel Protective Coatings)	rust scale				4	1		1 Square Feet
Ī	General Comments								

Span 2

Far Bearing 2

Fixed Bearing

Eleme Numb 313	ber	Eleme Fixed Bearing	nt Name	Tota Qt		CS1 Qty 0	CS2 Qty 1	CS3 Qty 0	CS4 Qty 0	Each
515		Steel Protective Coating			1	0	0	0	1	Square Feet
Element Number	Defect 1	Туре	Defect De	escription			CS	CS Qty	Maint Qty	
✓ 313 (Corrosion	surface ru	ist/rust scale				2	1		Each

√ 515	Effectiveness (Steel Protective Coatings)	surface rust/rust scale

General Comments

Spa	n 2		Near Bearing 3						
Mov	able Bearing								
Elen	nent	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311		vable Bearing		1	0	1	0	-	Each
515	Ste	el Protective Coating		1	0	0	1	0	Square Feet
Elemen Number)	Defect Description			cs	CS Qty	Maint Qty	
v 311	Corrosion	surface rust				2	1	-	Each
✓ 515	Effectiveness (Ste Protective Coating					3	1		1 Square Feet
Ī	General Commen								
•	•								
Spa			Far Bearing 3						
Fixe	d Bearing								
Elen Num	nent nber	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313		ed Bearing		1	0	1	0	-	Each
515	Ste	el Protective Coating		1	0	0	0	1	Square Feet
Elemen	Defect Turne	•	Defect Description			cs	CS Qty	Maint Qty	
∕ 313	Corrosion	surface rust/rust sca	ale			2	1	۹.9	Each
∕ 515	Effectiveness (Ste Protective Coating		ale			4	1		1 Square Feet
-	General Commen								
Cinc	~ 0		Neer Deering 4						
Spa			Near Bearing 4						
Mov	able Bearing								
Elen Num	nent nber	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Mo	vable Bearing		1	0	1	0	0	Each
515	Ste	el Protective Coating		1	0	0	0	1	Square Feet
Elemen Number)	Defect Description			cs	CS Qty	Maint Qty	
✓ 311	Corrosion	surface rust/rust sca	ale			2	1		Each
✓ 515	Effectiveness (Ste Protective Coating		ale			4	1		1 Square Feet
-	General Commen								

4 1 1 Square Feet

Span 2

Fixed Bearing

Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Be	Fixed Bearing		0	0	1	0	Each
515	Steel Pr	otective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Descr	iption		CS	CS Qty	Maint Qty	
<mark>√</mark> 313	Corrosion	corrosion with section loss (up to 1/	/8 inch loss)		3	1	-	1 Each
✓ 515 Effectiveness (Steel corrosion with section loss Protective Coatings)				4	1		1 Square Feet	
-	General Comments							

Span 2

Wearing Surface

Asphalt Wearing Surface

Elen Nun 510	nber	Element Name Wearing Surface			CS2 Qty 0		CS4 Qty 0 S	quare Feet
Elemen	t Defect Type	Defect Desc	1,960 cription	1,525	cs	CS Qty	Maint Qty	
✓ 510	Crack (Wearing Surface)	35 FEET X UP TO 1/8 INCHES T CRACK OVER BENT 1 WITH ED 3 INCH X 1 INCH DEEP		C	3	35	35	Square Feet
√ 510	Crack (Wearing Surface)	TRANSVERSE CRACKS UP TO 12 FOOT AND MAP CRACKS UF RANDOM THROUGHOUT			3	400	400	Square Feet

General Comments

Span 3 Deck **Reinforced Concrete Deck** CS2 CS4 Element Total CS1 CS3 **Element Name** Number Qty Qty Qty Qty Qty 12 **Reinforced Concrete Deck** 2,205 2,052 153 0 0 Square Feet Element Maint **Defect Type Defect Description** CS CS Qty Number Qty Cracking (RC and THROUGHOUT UNDERSIDE OF DECK, MULTIPLE 2 ✓ 12 150 150 Square Feet Other) TRANSVERSE CRACKS [UP TO FULL WIDTH X 1/32 INCHES] ✓ 12 Delamination/Spall AT BENT 3 UNDER RIGHT OVERHANG, 2 3 3 Square Feet DELAMINATION [28 INCHES X 12 INCHES] Efflorescence/Rust DEFECT NOT FOUND 08/06/2019 1 Square Feet 12 Staining

Span 3

Beam 1

Plate	Girder

Nun	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Op	ben Girder/Beam	70	68	0	2	0	Feet
515	Steel Pr	otective Coating	685	683	0	0	2	Square Feet
Elemen Numbe	Dofact Type	Defect Des	cription		CS	CS Qty	Maint Qty	
<u>م</u> 107	Corrosion	at bent 2, web adjacent to end di with section loss (9/16 inch avera inch x 1 inch)			3	1		1 Feet
107	Corrosion	at bent 3, web adjacent to end di with section loss (9/16 inch avera inch x 1 inch)			3	1		1 Feet
/ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	2		2 Square Feet

Spa	an 3	Beam 2						
Plat	te Girder							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel O	pen Girder/Beam	70	68	1	1	0	Feet
515	Steel Pr	rotective Coating	685	683	0	0	2	Square Feet
Elemer Numbe	Defect Type	Defect Descrip	Defect Description				Maint Qty	
√ 107	Corrosion	at bent 3, web adjacent to end diaph with section loss (9/16 inch average inch x 1 inch)			3	1		1 Feet
v 107	Corrosion	at bent 2, web adjacent to end diaph (10 inch)	ragm, rust scale		2	1		Feet
√ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet
√ 515	Effectiveness (Steel Protective Coatings)	rust scale			4	1		1 Square Feet

General Comments

Beam 3

Plate Girde

Span 3

er			

Nu	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel O	pen Girder/Beam	70	68	0	1	1	Feet
515	Steel Pr	otective Coating	685	683	0	0	2	Square Feet
Elemer Numbe	Dofact Type	Defect Description			CS	CS Qty	Maint Qty	
<mark>√</mark> 107	Corrosion	(PAR) at bent 3, web adjacent to end dia corrosion with section loss (7/16 inch ave remaining x 10 inch x 2.5 inch)			4	1		1 Feet
<mark>√</mark> 107	Corrosion	at bent 2, web adjacent to end diaphragn with section loss (9/16 inch average rema inch x 1 inch)			3	1		1 Feet
√ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	2	:	2 Square Feet

Inspection Date: 08/17/2023

General Comments

Spa	n 3	Beam 4						
Plat	e Girder							
Element Number		Element Name Steel Open Girder/Beam	Total Qty 70	CS1 Qty 68	CS2 Qty 0	CS3 Qty 2	CS4 Qty	
107 515		Steel Protective Coating	685	683	0	2	-	Square Feet
Elemen	t Defect T		CS	CS Qty	Maint Qty			
107	Corrosion	at bent 2, web adjacent to end dia with section loss (9/16 inch averag inch x 1 inch)			3	1		1 Feet
107	Corrosion		at bent 3, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)					1 Feet
107	Connection	(PAR) DIAPHRAGM OVER BENT OVERHANG, DELAMINATION/SF X 2 FOOT X 2 INCHES DEEP] W EXPOSED RUSTED REINFORCI APPROXIMATELY 25 PERCENT	PALL [FULL HEIGHT /ITH TWO [2] NG WITH		2			Feet
107	Connection	BAY 3 DIAPHRAGM OVER BENT SPALL/DELAMINATION [2] [UP T INCHES X UP TO 3/4 INCHES DI EXPOSED RUSTED REINFORCI	O 6 INCHES X 3 EEP] WITH		2			Feet
515	Effectiveness (Protective Coat				4	2		2 Square Feet

Span 3		Bent 3 Ex	pansion Joint					
Standar	d Joint							
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourab	le Joint Seal	48	48	0	0	0 Feet	
Element Number	Defect Type	Defect De	scription		CS	CS Qty	Maint Qty	
301 Deb	ris Impaction	MOVED TO ASPHALT WEARIN	NG SURFACE		1		Fe	et
Cono	ral Commonts							

General Comments

Span 3 **Near Bearing 1 Movable Bearing** CS1 CS2 CS3 CS4 Element Total Number **Element Name** Qty Qty Qty Qty Qty 311 Movable Bearing 1 0 0 0 Each 1 515 **Steel Protective Coating** 1 0 0 0 1 Square Feet Element Maint Defect Type **Defect Description** cs CS Qty Number Qty **√** 311 Corrosion surface rust/rust scale 2 1 Each ✓ 515 Effectiveness (Steel 4 1 1 Square Feet surface rust/rust scale Protective Coatings)

Spa	an 3	Far Bearing	1					
Fixe	ed Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed B	earing	1	0	0	1	0 E	Each
515	Steel Pr	rotective Coating	1	0	0	0	1 \$	Square Feet
Elemer Numbe	Dofact Type	Defect Desci	iption		CS	CS Qty	Maint Qty	
✓ 313	Corrosion	corrosion with section loss (up to 1	/8 inch loss)		3	1	1	Each
								Courses East
✓ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1	1	Square Feet

Spa	an 3			Near Bearing 2						
Мо	vable E	Bearing								
	ement mber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311		Movable	Bearing		1	0	1	0	0	Each
515		Steel Pro	otective Coating		1	0	0	0	1	Square Feet
Elemer Numbe	· •	Defect Type		Defect Description			CS	CS Qty	Maint Qty	
√ 311	Corros	sion	surface rust/rust sca	ale			2	1		Each
√ 515		veness (Steel tive Coatings)	surface rust/rust sca	ale			4	1		1 Square Feet
	Genera	I Comments								

Span 3	
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Far Bearing 2

Fixed Bearing

Elem Num				CS1 Qty	CS2 Qty		CS4 Qty	
313	Fixed B	earing	1	0	0	1	0	Each
515	Steel P	rotective Coating	1	0	0	0	1	Square Feet
Element Number	Dofoot Typo	Defect Descri	ption		CS	CS Qty	Maint Qty	
√ 313	Corrosion	corrosion with section loss (up to 1/	16 inch loss)		3	1		1 Each
	5 Effectiveness (Steel corrosion with section loss Protective Coatings)				4	1		1 Square Feet
C	General Comments							

Near Bearing 3

Movable Bearing

Element Number		Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing		1	0	1	0	0	Each
515	Steel Protective Coatir	g	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description			CS	CS Qty	Maint Qty	

Structure	Number: 110129	Inspe	Inspection Date: 08/17/2023		
✓ 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				

Spa	an 3	Far Bearing	g 3					
Fixe	ed Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed E	Bearing	1	0	0	1	0	Each
515	Steel P	rotective Coating	1	0	0	0	1	Square Feet
Elemer Numbe	Defect Type	Defect Desc	ription		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							

Spa	an 3			Near Bearing 4						
Мо	vable	Bearing								
	ement Imber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311		Movable	Bearing		1	0	1	0	0	Each
515		Steel Pro	otective Coating		1	0	0	0	1	Square Feet
Eleme Numb		Defect Type		Defect Description			CS	CS Qty	Maint Qty	
√ 311	Corr	osion	surface rust/rust sca	ale			2	1		Each
√ 515		ctiveness (Steel ective Coatings)	surface rust/rust sca	ale			4	1		1 Square Feet
	Gene	ral Comments								

Span 3	
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Far Bearing 4

Fixed Bearing

Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Be	earing	1	0	0	1	0	Each
515	Steel Pr	otective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect De	scription		CS	CS Qty	Maint Qty	
7 313	Corrosion	corrosion with section loss (up to	o 1/16 inch loss)		3	1		1 Each
	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet

Wearing Surface

1 Feet

1 Square Feet

Span 3

Asphalt Wearing Surface

	Element Number Element Name 510 Wearing Surface		Total Qty 1.960	CS1 Qty 1,017	CS2 Qty 8	CS3 Qty 935	CS4 Qty 0 S	Square Feet
Element	t Defect Type	Defect Description	.,	.,	CS	CS Qty	Maint Qty	
√ 510	Crack (Wearing Surface)	35 FEET X UP TO 1/8 INCHES TRANSVE CRACK WITH EDGE SPALLS UP TO 2 FO INCH X 1 INCH DEEP WITH VEGETATION OVER BENT 2	DOT X 4	ГН	3	35	35	Square Feet
✓ 510	Crack (Wearing Surface)	ASPHALT WEARING SURFACE HAS SC/ MAP CRACKING UP TO 1/16 INCHES	ATTERED)	3	900	900	Square Feet
✓ 510	Patched Area/Pothole (Wearing Surface)	2023 previously repaired, previously noted ASPHALT OVER BENT 2, MULTIPLE POT [UP TO 2 FEET X UP TO 6 INCHES X UP DEPTH]	THOLES		2	8		Square Feet

General Comments

Spa	n 4	Deck						
Reir	nforced Concrete	e Deck						
	nent nber Reinfo	Element Name brced Concrete Deck	Total Qty 2,205	CS1 Qty 2,105	CS2 Qty 100	CS3 Qty 0	CS4 Qty 0	Square Feet
Elemen Numbe	Defect Tune	Defect De	scription		CS	CS Qty	Maint Qty	
] 12	Cracking (RC and Other)	THROUGHOUT UNDERSIDE (TRANSVERSE CRACKS [UP T INCHES]			2	100	100	Square Feet
] 12	Efflorescence/Rust Staining	DEFECT NOT FOUND 08/05/20	019		1			Square Feet
-	General Comments							
Spa	n 4	Beam 1						
Plat	e Girder							
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel	Open Girder/Beam	69	68	0	1	0	Feet
515	Steel I	Protective Coating	680	679	0	0	1	Square Feet
Elemen	t Defect Type	Defect De	scription		65	CS Otv	Maint	

EI	emei	
Ν	umbe	

Elemei Numbe	Defect Type	Defect Description	CS	CS Qty	Maint Qty
v 107	Corrosion	at bent 3, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)	3	1	
✓ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	

Span 4

Plate Gird	er

Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	Frat
107	Steel Op	ben Girder/Beam	69	68	1	0	0	Feet
515	Steel Pr	otective Coating	680	679	0	0	1	Square Feet
Element Number	Dofact Type	Defect Des	cription		CS	CS Qty	Maint Qty	
√ 107	Connection	BAY 2 END DIAPHRAGM OVER INCHES X 6 INCHES X 1/2 INCH EXPOSED RUSTED REINFORC	IES DEEP] WITH		2			Feet
v 107	Corrosion	at bent 3, web adjacent to end dia (10 inch)	aphragm, rust scale		2	1		Feet
✓ 515	Effectiveness (Steel Protective Coatings)	rust scale			4	1		Square Feet
(General Comments							

Span 4

Beam 3

Plate Girder

	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel O	ben Girder/Beam	69	68	1	0	0	Feet
515	Steel Pr	otective Coating	680	679	0	0	1	Square Feet
Elemen Numbe	Defect Turne	Defect Desc	ription		CS	CS Qty	Maint Qty	
√ 107	Corrosion	at bent 3, web adjacent to end dia (10 inch)	phragm, rust scale		2	1		Feet
✓ 515	Effectiveness (Steel Protective Coatings)	rust scale			4	1		Square Feet
-								

General Comments

n 4 e Girder	Beam 4						
nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
		680	679	0	0	1	Square Feet
t Defect Type	Defect De	scription		CS	CS Qty	Maint Qty	
Corrosion	at bent 3, web adjacent to end c (10 inch)	liaphragm, rust scale		2	1	•	Feet
Effectiveness (Steel Protective Coatings)	rust scale			4	1		1 Square Feet
r	e Girder her Steel Op Steel Pro t Defect Type Corrosion Effectiveness (Steel	e Girder her Element Name Steel Open Girder/Beam Steel Protective Coating Defect Type Defect De Corrosion at bent 3, web adjacent to end c (10 inch) Effectiveness (Steel rust scale	e Girder hee Girder hee Girder hee Girder hee Girder hee Girder hee Girder hee Girder hee Girder hee Girder hee Girder hee Girder hee Girder hee Girde	e Girder hee Girder hee Girder hee Girder hee Girder hee Girder hee Girder hee Girder hee Girder hee Girder hee Girder hee Girder hee Girder hee Girde	Element Name Total Qty CS1 Qty Qty Qty Steel Open Girder/Beam 69 68 1 Steel Protective Coating 680 679 0 Defect Type Defect Description CS Corrosion at bent 3, web adjacent to end diaphragm, rust scale (10 inch) 2 Effectiveness (Steel rust scale 4	Element Name Total Qty CS1 Qty CS2 Qty CS3 Qty Steel Open Girder/Beam 69 68 1 0 Steel Protective Coating 680 679 0 0 Defect Type Defect Description CS CS Qty Corrosion at bent 3, web adjacent to end diaphragm, rust scale (10 inch) 2 1 Effectiveness (Steel rust scale 4 1	Element Name Total Qty

Span 4		End Bent 2 Expansion	Joint			
Standard	Joint					
Element Number	Element Nam	Tota Qt		CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint Seal	48	8 48	0	0	0 Feet

Structure Number: 110129

301 Debris Impaction

MOVED TO ASPHALT WEARING SURFACE

1

General Comments

Spa	an 4		Left Bridge R	Rail					
Cor	ncrete Railir	ıg							
	ment mber		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331		Reinforc	ed Concrete Bridge Railing	70	67	3	0	0 Feet	
Elemer Numbe	Defect 7	Гуре	Defect Descrip	otion		CS	CS Qty	Maint Qty	
∕ 331	Delamination/	Spall	ALONG FACE OF RAIL, MULTIPLE 3 INCHES DIAMETER X 1/2 INCHE EXPOSED RUSTED REINFORCING	S DEEP] WITH		2	3	3 Feet	
	General Com	nents							-
Spa	an 4		Near Bearing	1					
Мо	vable Bearir	ng							
	ment mber		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311		Movable	Bearing	1	0	0	1	0 Each	
515		Steel Pro	otective Coating	1	0	0	0	1 Square Fee	t
Elemer Numbe	Defeet 7	Гуре	Defect Descrip	otion		CS	CS Qty	Maint Qty	
∕ 311	Corrosion		corrosion with section loss (up to 1/1	6 inch loss)		3	1	1 Each	
∕ 515	Effectiveness Protective Co		corrosion with section loss			4	1	1 Square F	eet
	General Com	nents							-
Spa	an 4		Far Bearing 2	1					
Fixe	ed Bearing								
	ment mber		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313		Fixed Be	aring	1	0	0	1	0 Each	
515		Steel Pro	otective Coating	1	0	0	0	1 Square Fee	t

515	Sleer Pr	olective Coaling	I	0	0	0	I	Square Feel
Elemen Numbe	Defect Tune	Defect Description			CS	CS Qty	Maint Qty	
<mark>√</mark> 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
-	0							

Structure Number: 110129

Movable Bearing

Span 4

	j						
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
311	Movable	Bearing	1	0	1	0	0 Each
515	Steel Pr	otective Coating	1	0	0	0	1 Square Feet
Elemen Numbe	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		Far Bear	ing 2					
Fixed	Bearing							
Eleme Numb		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fix	ked Bearing	1	0	0	1	0 Each	
515	Ste	eel Protective Coating	1	1	0	0	0 Square Fee	et
Element Number	Defect Typ	De Defect De	escription		CS	CS Qty	Maint Qty	
7 313 0	Corrosion	painted over pitting (up to 1/16	inch deep)		3	1	1 Each	

General Comments

Span -	4	Near Bear	ring 3					
Moval	ble Bearing							
Eleme Numbe		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	Bearing	1	0	0	1	0	Each
515	Steel Pr	otective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Des	scription		CS	CS Qty	Maint Qty	
∕ 311 C	Corrosion	corrosion with section loss (up to	o 1/16 inch loss)		3	1	-	1 Each
∑ 515 E P	ffectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet
<u>Р</u>		corrosion with section loss			4	1		1 So

General Comments

Span 4	
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Near Bearing 4

Movable Bearing

	ment mber Movabl	Element Name e Bearing		Total Qty 1	CS1 Qty 0	CS2 Qty 1	CS3 Qty 0	CS4 Qty 0	Each
515	Steel P	rotective Coating		1	0	0	1	0	Square Feet
Elemer Numbe	Defect Tune		Defect Description					Maint	
Pampe	er Deleteriype		Delect Description			CS	CS Qty	Qty	
Numbe ✓ 311	Corrosion	surface rust	Delect Description			2 2	CS Qty 1	Qty	Each

General Comments

า 4	Far Bearin	ng 4					
d Bearing							
nent Iber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Fixed Be	earing	1	0	0	1	0	Each
Steel Pr	otective Coating	1	0	0	0	1	Square Feet
Defect Type	Defect Des	scription		CS	CS Qty	Maint Qty	
Corrosion	corrosion with section loss (up to	o 1/8 inch loss)		3	1	-	1 Each
Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet
	d Bearing hent ber Fixed Be Steel Pr Defect Type Corrosion Effectiveness (Steel	d Bearing hent her Fixed Bearing Steel Protective Coating Defect Type Corrosion Effectiveness (Steel corrosion with section loss (up to Effectiveness (Steel corrosion with section loss	d Bearing Total Qty Fixed Bearing 1 Steel Protective Coating 1 Defect Type Defect Description Corrosion corrosion with section loss (up to 1/8 inch loss) Effectiveness (Steel corrosion with section loss	d Bearing hent ber Element Name Fixed Bearing Steel Protective Coating Defect Type Corrosion Corrosion with section loss (up to 1/8 inch loss) Effectiveness (Steel corrosion with section loss	Defect Type Defect Description CS Corrosion corrosion with section loss (up to 1/8 inch loss) 3	Defect Type Defect Description CS CS Qty CS Qty Qty	Defect Type Defect Description CS CS Qty Qty

Span 4

Wearing Surface

Asphalt Wearing Surface

Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearin	g Surface	1,960	990	0	970	0 S	quare Feet
Element Number	Defect Turne	Defect Des	scription		CS	CS Qty	Maint Qty	
✓ 510	Crack (Wearing Surface)	35 FEET X UP TO 1/8 INCHES CRACK OVER BENT 3	TRANSVERSE		3	35	35	Square Feet
✓ 510	Crack (Wearing Surface)	35 FEET X UP TO 1/8 INCHES CRACK OVER END BENT 2	TRANSVERSE		3	35	35	Square Feet
✓ 510	Crack (Wearing Surface)	ASPHALT WEARING SURFACE MAP CRACKING [UP TO 1/8 IN THROUGHOUT			3	900	900	Square Feet

General Comments

End Be	ent 1	Abutment						
Reinfo	rced Concrete	Abutment						
Elemen Numbe	-	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinford	ced Concrete Abutment	45	41	0	4	0 Feet	
Element Number	Defect Type	Defect Descri	ption		CS	CS Qty	Maint Qty	
√ 215 De	lamination/Spall	AT ALL BEAM PENETRATIONS, M SPALLS/DELAMINATIONS [UP TO INCHES X 1 INCHES DEEP]			3	4	4 Feet	

End Ber	nt 1	Cap 1						
Reinford	ced Concrete Pier Cap							
Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap		50	45	5	0	0 Feet	
Element Number	Defect Type	Defect Description			CS	CS Qty	Maint Qty	

Structure Number: 110129

234 Cracking (RC and Other)

ALONG LENGTH, MULTIPLE VERTICAL CRACKS [UP TO FULL HEIGHT X 1/64 INCHES]

General Comments

Bent 1

Cap 1

Reinforced Concrete Pier Cap

Elerr Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfor	ced Concrete Pier Cap	36	11	5	20	0 F	eet
Element Number	Dofoot Typo	Defect Description			CS	CS Qty	Maint Qty	
✓ 234	Cracking (RC and Other)	BOTH FACES OF CAP, MULTIPLE HORI AND VERTICAL CRACKS [UP TO 7 FEE ⁻ INCHES]			3	15	15	Feet
<mark>√</mark> 234	Cracking (RC and Other)	MAP CRACKS (UP TO 1/32 INCH X 2 FO TO FULL HEIGHT) NORTHEAST BOTTO			3	2	2	Feet
✓ 234	Cracking (RC and Other)	underside between columns 2 and 3, dela foot x 2 foot) with cracks (up to 1/16 inch)	mination (3		3	3	3	Feet
√ 234	Delamination/Spall	NORTH FACE OF CAP HAS A DELAMINATED/SPALLED AREA ALONG BOTTOM EDGE AT COLUMN 2 4 FOOT X 1/2 INCH DEEP WITH CRACKS UP TO	X 1.5 FOOT	-	3	5	5	Feet
<mark>√</mark> 234	Cracking (RC and Other)	(COMBINED WITH OTHER NOTES 2023 UP TO 1/16 INCHES HORIZONTAL CRAN BEAM 2 NORTH FACE OF CAP.			1			Feet

General Comments

Bent 1

Pile 1

Reinforced Concrete Column

Elen Num 205		Element Name ced Concrete Column	Total Qty 1	CS1 Qty 0	CS2 Qty 1	CS3 Qty 0	CS4 Qty 0	Each
Element Number	Defeet Trues	Defect Desc	ription		CS	CS Qty	Maint Qty	
V 205	Cracking (RC and Other)	WEST FACE AT CAP, VERTICAL UP TO 1/32 INCHES] WITH ADJ/ DELAMINATION [10 INCHES X 6	ACENT		2	1		Each

General Comments

Bent 1		Pile 3						
Reinfo	rced Concrete	Column						
Elemer Numbe		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinford	ed Concrete Column	1	0	0	1	0 Each	
Element Number	Defect Type	Defect De	escription		CS	CS Qty	Maint Qty	
√ 205 De	elamination/Spall	BOTTOM EAST FACE OF COL AREA AT GROUND LINE 7 IN 3.5 INCHES .			3	1	1 Each	

General Comments

Inspection Date: 08/17/2023

Feet

5

2

End Bent 2

Reinforced Concrete Abutment

Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinfor	ced Concrete Abutment	45	41	0	4	0 Feet	
Element Number	Defect Turne	Defect Desc	ription		CS	CS Qty	Maint Qty	
V 215	Delamination/Spall	AT ALL BEAM PENETRATIONS, I SPALLS/DELAMINATIONS [UP TO INCHES X 1 INCHES DEEP]			3	4	4 Feet	

General Comments

End Bent 2

Cap 1

Abutment

Reinforced Concrete Pier Cap

Elen Nun 234		Element Name rced Concrete Pier Cap	Total Qty 50	CS1 Qty 43	CS2 Qty 4	CS3 Qty 3	CS4 Qty 0	Feet
Elemen Number	Defect Type	Defect Des	cription		CS	CS Qty	Maint Qty	
✓ 234	Cracking (RC and Other)	in bay 1, map cracks (2 foot x 1 f inch)	oot x up to 1/32		3	3	3	3 Feet
✓ 234	Cracking (RC and Other)	ALONG LENGTH, MULTIPLE VE [UP TO FULL HEIGHT X 1/32 IN			2	4		Feet
234	Cracking (RC and Other)	2- UP TO 9 FEET X 1/8 INCHES CRACK ON SOUTH FACE UND DEFECT NOT FOUND, 8/25/202	ER BAY 1 & 3 -		1			Feet

General Comments

Bent 2

Cap 1

Reinforced Concrete Pier Cap

Elen Nun 234		Element Name ced Concrete Pier Cap	Total Qty 36	CS1 Qty 10	CS2 Qty 25	CS3 Qty 1	CS4 Qty 0 Feet
Elemen Number	Dofoct Typo	Defect Descriptio	n		CS	CS Qty	Maint Qty
√ 234	Delamination/Spall	WEST END OF CAP HAS A SURFACE DELAMINATED AREA 4 INCHES X 10 INCHES WITH EXPOSED RUSTED RE [NO LOSS]	INCHES X 1/2		3	1	1 Feet
<mark>√</mark> 234	Cracking (RC and Other)	ALONG ALL FACES OF CAP, SCATTE CRACKING UP TO 1/64 INCHES AT R			2	25	Feet
234	Cracking (RC and Other)	SOUTH FACE OF CAP HAS SCATTER CRACKING UP TO 1/64 INCHES INCH OF CAP DUPLICATE NOTE, COME	IES THE FACE		1		Feet

Structure Number: 110129

Ben	t 2	Pile	1						
Reir	nforced Concrete	Column							
	nent n ber Reinfo	Element Name rced Concrete Column	-	Total Qty 1	CS1 Qty 0	CS2 Qty 1	CS3 Qty 0	CS4 Qty 0	Each
Elemen Numbe	Defect Turne	De	fect Description			CS	CS Qty	Maint Qty	
✓ 205	Delamination/Spall	5 INCHES X 5 INCHES 2 SOUTH WEST CORNER GROUND.				2	1		1 Each
	General Comments								
Ben	t 3	Сар	01						
Reir	nforced Concrete	e Pier Cap							
	nent nber Reinfo	Element Name rced Concrete Pier Cap	-	Total Qty 36	CS1 Qty 11	CS2 Qty 25	CS3 Qty 0	CS4 Qty 0	Feet
Elemen	t						_	Maint	
Number	r Defect Type		fect Description			CS	CS Qty	Qty	
✓ 234	Cracking (RC and Other)	BENT 3 CAP ALL FACE CRACKING [UP TO 1/64				2	25		Feet
	General Comments								
Ben	t 3	Pile	3						
Reir	nforced Concrete	Column							
	nent nber Roinfo	Element Name	-	Total Qty 1	CS1 Qty 0	CS2 Qty 1	CS3 Qty 0	CS4 Qty	Each
				1	0	1	0		Lacii
Elemen Numbe	r Defect Type	De	fect Description			CS	CS Qty	Maint Qty	
<mark>√</mark> 205	Cracking (RC and Other)	EAST FACE UNDER CA FEET X 1/32 INCHES]	AP, VERTICAL CRAC	CK [3-1/2		2	1		Each
-	General Comments								

Elements Verfied

Location	Name	Component	Element Name	Amoun
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1953
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	62
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	62
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	62
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	62
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	62
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	62
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1736
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	2205
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	70
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	70
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	70
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	70
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	70
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	70
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1960
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	2205
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	70
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	70
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	70
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	70
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	70
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	70
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1960
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
Span 3	Near Bearing 2	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing 3	Movable Bearing	Movable Bearing	1

Elements Verfied

Location	Name	Component	Element Name	Amount
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 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	2205
Span 4	Beam 1	Plate Girder	Steel Open Girder/Beam	69
Span 4	Beam 2	Plate Girder	Steel Open Girder/Beam	69
Span 4	Beam 3	Plate Girder	Steel Open Girder/Beam	69
Span 4	Beam 4	Plate Girder	Steel Open Girder/Beam	69
Span 4	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	70
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	70
Span 4	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1960
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
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	36
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	50
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	45
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	36
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	50
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	45
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	36
Bent 3	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 110129

Inspection Date: 08/17/2023

National Bridge Inventory Items

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

tems 58,59,60,62 reflect this nspection only.

or overall NBI coding grade, ee 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	Р	8568	3376
Drainage System	G, F, P, or C	Р	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	G	0	3352
Scour	G, F, P, or C			
Wingwall	G, F, P, or C	G	0	3350
Field Scour Evaluation				
Drift	G, F, P, or C		0	3366
Fender System	G, F, P, or C		0	3364
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Superstructure Paint Code		В		

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

Inspection Information

Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	Y
Inspection Time	Hours	8
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	Y
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N
Portion of Structure in > 3' of water	YES/NO	Ν

National Bridge and NC SMU Inspection Item Details

ture Number: 110129					Inspection Date: 08/17/2	
Item	Deck - Item 58	Grade 6	Maint Code	Qty.	0	
Details	rating revised from 5 to 6; deficiencies do no warrant previous rating					
Item	Deck Debris	Grade P	Maint Code 337	6 Qty.	8568	
Details	along both curblines, debris accumulation (up to 2 foot	wide x full leng	th); fully obstructing draina	age		
Item	Drainage System	Grade P	Maint Code 333	2 Qty.	0	
Details	see deck debris					
Item	General Comments and Misc Items	Grade	Maint Code	Qty.	0	
Details	(PAR) northeast guardrail termination, impact damage					
	(PAR) north approach asphalt wearing surface, northhound lane near and bent 2, broken asphalt (3 foot x 2 foot x 1.5 inch					

(PAR) north approach asphalt wearing surface, northbound lane near end bent 2, broken asphalt (3 foot x 2 foot x 1.5 inch deep)

County: BURKE

Date: 08/17/2023



(PAR) northeast guardrail termination, impact damage



End Bent 1 Abutment: AT ALL BEAM PENETRATIONS, MULTIPLE SPALLS/DELAMINATIONS [UP TO 9 INCHES X 5 INCHES X 1 INCHES DEEP]

Condition Photos



End Bent 1 Cap 1: ALONG LENGTH, MULTIPLE VERTICAL CRACKS [UP TO FULL HEIGHT X 1/64 INCHES]



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



Span 1 Near Bearing 3: painted over pitting (up to 1/16 inch deep)



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

Condition Photos



Span 1 Deck: ALONG BOTH OVERHANGS, TRANSVERSE CRACKS UP TO 1/32 INCH X FULL WIDTH



Span 1 Deck: BOTTOM OF DECK HAS SCATTERED AREAS OF TRANSVERSE CRACKS UP TO 1/32 INCHES X FULL WIDTH SOME WITH EFFLORESCENCE AT RANDOM THROUGHOUT

County: BURKE

Date: 08/17/2023

Condition Photos



along both curblines, debris accumulation (up to 2 foot wide x full length); fully obstructing drainage



Span 1 Wearing Surface: ASPHALT WEARING SURFACE IS BROKEN UP/PARTIALLY PATCH AND DEPRESS IN A FEET X 6 FEET X 1 INCH DEEP AREA 12 FEET FROM END BENT 1 AND 9 FEET FROM RIGHT CURB.



Span 1 Wearing Surface: ASPHALT WEARING SURFACE HAS SCATTERED MAP CRACKING UP TO 1/32 INCHES THROUGH OUT



Span 1 Wearing Surface: 35 FEET X UP TO 1/4 INCHES TRANSVERSE CRACK OVER END BENT 1

County: BURKE

Date: 08/17/2023



Span 1 Left Bridge Rail: (4) UP TO 5 INCHES DIAMETER X 1/2 INCHES SPALLS WITH EXPOSED REINFORCING 20 FEET FROM END BENT 1 NO SECTION LOSS



Span 2 Wearing Surface: 35 FEET X UP TO 1/8 INCHES TRANSVERSE CRACK OVER BENT 1 WITH EDGE SPALLS UP TO 3 INCH X 1 INCH DEEP



Span 2 Wearing Surface: 35 FEET X UP TO 1/8 INCHES TRANSVERSE CRACK OVER BENT 1 WITH EDGE SPALLS UP TO 3 INCH X 1 INCH DEEP



Span 2 Wearing Surface: TRANSVERSE CRACKS UP TO 1/16 FEET INCH X 12 FOOT AND MAP CRACKS UP TO 1/32 AT RANDOM THROUGHOUT

Date: 08/17/2023

Condition Photos



Span 2 Right Bridge Rail: (2) UP TO 4 INCH DIAMETER X 1/2 INCH SPALLS WITH EXPOSED REINFORCING 22 FEET FROM BENT 1 NO SECTION LOSS



Span 2 Left Bridge Rail: at midspan, (2) spalls (3 inch diameter x 1/2 inch deep) with exposed rusted rebar

County: BURKE

Date: 08/17/2023



Span 3 Wearing Surface: 35 FEET X UP TO 1/8 INCHES TRANSVERSE CRACK WITH EDGE SPALLS UP TO 2 FOOT X 4 INCH X 1 INCH DEEP WITH VEGETATION GROWTH OVER BENT 2



Span 3 Wearing Surface: 35 FEET X UP TO 1/8 INCHES TRANSVERSE CRACK WITH EDGE SPALLS UP TO 2 FOOT X 4 INCH X 1 INCH DEEP WITH VEGETATION GROWTH OVER BENT 2



Span 3 Wearing Surface: ASPHALT WEARING SURFACE HAS SCATTERED MAP CRACKING UP TO 1/16 INCHES



Span 4 Wearing Surface: ASPHALT WEARING SURFACE HAS SCATTERED MAP CRACKING [UP TO 1/8 INCHES] AT RANDOM THROUGHOUT

County: BURKE

Date: 08/17/2023

Date: 08/17/2023



(PAR) north approach asphalt wearing surface, northbound lane near end bent 2, broken asphalt (3 foot x 2 foot x 1.5 inch deep)



End Bent 2 Cap 1: in bay 1, map cracks (2 foot x 1 foot x up to 1/32 inch)



End Bent 2 Abutment: AT ALL BEAM PENETRATIONS, MULTIPLE SPALLS/DELAMINATIONS [UP TO 10 INCHES X I INCHES X 1 INCHES DEEP]



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



Span 4 Beam 2: BAY 2 END DIAPHRAGM OVER BENT 3, SPALL [8 INCHES X 6 INCHES X 1/2 INCHES DEEP] WITH EXPOSED RUSTED REINFORCING



Span 2 Beam 4: at bent 1, corrosion with section loss: web (less than 1/16 inch loss x 1 foot x 10 inch); bottom flange (less than 1/16 inch loss x 1 foot)

County: BURKE

Date: 08/17/2023

Condition Photos



Span 2 Near Bearing 4: surface rust/rust scale



Span 1 Beam 4: at bent 1, web adjacent to end diaphragm, rust scale (13 inch)

Date: 08/17/2023



Bent 1 Cap 1: MAP CRACKS (UP TO 1/32 INCH X 2 FOOT X UP TO FULL HEIGHT) NORTHEAST BOTTOM CORNER.



Span 2 Beam 3: at bent 1, web adjacent to end diaphragm and bottom flange, rust scale (13 inch)

Condition Photos



Span 2 Beam 3: at bent 1, web adjacent to end diaphragm and bottom flange, rust scale (13 inch)



Bent 1 Cap 1: NORTH FACE OF CAP HAS A DELAMINATED/SPALLED AREA ALONG THE BOTTOM EDGE AT COLUMN 2 4 FOOT X 1.5 FOOT X 1/2 INCH DEEP WITH CRACKS UP TO 1/32 INCH

Condition Photos



Bent 1 Cap 1: underside between columns 2 and 3, delamination (3 foot x 2 foot) with cracks (up to 1/16 inch)



Span 2 Beam 2: 8 INCH X UP TO 5 INCH X 1/2 INCH DEEP SPALL WITH EXPOSED REINFORCING BOTTOM FACE OF BENT 1 DIAPHRAGM IN BAY 2

Date: 08/17/2023

Condition Photos



Bent 1 Cap 1: BOTH FACES OF CAP, MULTIPLE HORIZONTAL AND VERTICAL CRACKS [UP TO 7 FEET X 1/16 INCHES]



Span 2 Beam 2: at bent 1, web adjacent to end diaphragm and bottom flange, rust scale (13 inch)

County: BURKE

Date: 08/17/2023

Condition Photos



Span 2 Beam 1: at bent 1, web adjacent to end diaphragm and bottom flange, rust scale (13 inch)



Span 2 Deck: (PAR) west overhang over bent 1, spall (18 inch x 6 inch x 1/2 inch deep) with exposed rusted rebar

Date: 08/17/2023



Bent 1 Pile 1: WEST FACE AT CAP, VERTICAL CRACK [4 FEET X UP TO 1/32 INCHES] WITH ADJACENT DELAMINATION [10 INCHES X 6 INCHES]



Bent 1 Pile 3: BOTTOM EAST FACE OF COLUMN 3 HAS A SPALL AREA AT GROUND LINE 7 INCHES X 17 INCHES X 3.5 INCHES .

Date: 08/17/2023

Condition Photos



Span 2 Beam 1: at bent 2, web adjacent to end diaphragm, rust scale (10 inch)



Span 3 Beam 1: at bent 2, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)

Date: 08/17/2023



Span 2 Beam 3: at bent 2, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)



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

Date: 08/17/2023

Condition Photos



Span 3 Beam 3: at bent 2, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)



Bent 2 Cap 1: ALONG ALL FACES OF CAP, SCATTERED MAP CRACKING UP TO 1/64 INCHES AT RANDOM

County: BURKE

Date: 08/17/2023

Condition Photos



Span 2 Beam 4: at bent 2, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)



Span 3 Beam 4: at bent 2, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)



Span 2 Far Bearing 4: corrosion with section loss (up to 1/8 inch loss)

Condition Photos



Span 2 Beam 4: 2023 new repair, previously noted as: SUPPLEMENTAL INSPECTION 2022: POINT OF IMPACT 36 FEET 11 INCHES OUT FROM INTERIOR BENT 1, 15 INCHES LONG BOTTOM FLANGE BENT UPWARD 1 INCH .THERE IS A 7 INCH LONG HAIRLINE CRACK IN THE WELD ATTACHING THE BOTTON COVER PLATE TO THE BOTTOM FLANGE LEFT SIDE AT 36 FEET 5 INCHES OUT FROM INTERIOR BENT 1. SCATTERED SCRAPS WITH UP TO 1 INCH INDENTIONS THROUGHOUT ON BOTTOM COVER PLATE . BEAM 4 SWEPT EASTWARD UP TO 2 INCHES. POSSIBLE HAIRLINE CRACK 1 INCH UP RIGHT FACE OF WEB UP TO 2 INCH LONG AT DIAPHRAM 3, 23 FEET 3 INCHES FROM INTERIOR BENT 2.

Condition Photos



Span 2 Beam 4: 2023 new repair, previously noted as: SUPPLEMENTAL INSPECTION 2022: POINT OF IMPACT 36 FEET 11 INCHES OUT FROM INTERIOR BENT 1, 15 INCHES LONG BOTTOM FLANGE BENT UPWARD 1 INCH .THERE IS A 7 INCH LONG HAIRLINE CRACK IN THE WELD ATTACHING THE BOTTON COVER PLATE TO THE BOTTOM FLANGE LEFT SIDE AT 36 FEET 5 INCHES OUT FROM INTERIOR BENT 1. SCATTERED SCRAPS WITH UP TO 1 INCH INDENTIONS THROUGHOUT ON BOTTOM COVER PLATE . BEAM 4 SWEPT EASTWARD UP TO 2 INCHES. POSSIBLE HAIRLINE CRACK 1 INCH UP RIGHT FACE OF WEB UP TO 2 INCH LONG AT DIAPHRAM 3, 23 FEET 3 INCHES FROM INTERIOR BENT 2.

Condition Photos



Span 2 Beam 3: 2023 new repair, previously noted as: SUPPLEMENTAL INSPECTION 2021: POINT OF IMPACT ON BEAM 3 26 FEET 1 INCHES FROM FACE OF BENT 1. A INDENTION IN COVER PLATE THREE INCHES X 1/2 INCHES AND A 2 INCHES X 1/2 INCHES IN THE IMPACT AREA.

Condition Photos



Span 2 Beam 2: 2023 new repair, previously noted as: SUPPLEMENTAL INSPECTION 2022 POINT OF IMPACT ON BEAM 2 27 FEET 6 INCHES FROM FACE OF BENT 1. GOUGES IN FLANGE COVER PLATE 1/2 INCHES X 14 INCHES X 1/16 INCHES AND A INDENTION IN FLANGE COVER PLATE 6 INCHES X 1/32 INCH , A INDENTION IN FLANGE 1 1/2 INCHES X 1/16 INCHES ALL IN THE IMPACT AREA.

Condition Photos



Span 2 Beam 1: 2023 new repair, previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022 : INITIAL POINT OF IMPACT ON BEAM 1 14 FEET 7 INCHES FROM FACE OF BENT 1. BEAM 1 IS OUT OF PLUMB 2 INCHES IN THE DIRECTION OF TRAFFIC FOR THE LENGTH OF 20 FEET AND INDENTION IN COVER PLATE 3 FEET X 2 INCHES IN THE IMPACT AREA. AN INDENTION IN FLANGE 8 INCHES X 1/4 INCHES AT 21 FEET 3 INCHES, A 8 INCHES X 1/4 INCHES AT 22 FEET 11 INCHES A 5 INCHES X 1/16 INCHES AT 17 FEET 4 INCHES, A 29 INCHES X 1/2 INCHES AT 27 FEET ZERO INCHES ALL FROM FACE OF BENT 1. INDENTIONS IN FLANGE COVER PLATE 6 INCHES X 1/16 INCHES AT 23 FEET FOUR INCHES, A 6 INCHES X 1/16 INCHES AT 22 FEET 9 INCHES, A 8 INCHES X 1/32 INCHES AT 21 FEET 6 INCHES, A 6 INCHES X 1/16 INCHES AT 21 FEET 1 INCHES, A 8 INCHES X 1/16 INCHES AT 18 FEET 9 INCHES, A 6 INCHES X 1/32 INCHES AT 16 FEET FOUR INCHES, A 1 INCHES X 1/32 INCHES AT 25 FEET FIVE INCHES ALL FROM FACE OF BENT 1. GOUGES IN FLANGE COVER PLATE ONE INCHES X 1/32 INCHES AT 25 FEET FIVE INCHES ALL FROM FACE OF BENT 1. GOUGES IN FLANGE COVER PLATE ONE INCHES X 1/32 INCHES AT 25 FEET FIVE INCHES ALL FROM FACE OF BENT 1. GOUGES IN FLANGE COVER PLATE ONE INCHES X FOUR INCHES X 1/16 INCHES AT 21 FEET ONE INCHES AND 3/4 INCHES X 3 INCHES X 1/16 INCHES AT 25 FEET FIVE INCHES FROM FACE OF BENT 1.

County: BURKE

Date: 08/17/2023

Condition Photos



Span 2 Beam 1: 2023 new repair, previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022 : INITIAL POINT OF IMPACT ON BEAM 1 14 FEET 7 INCHES FROM FACE OF BENT 1. BEAM 1 IS OUT OF PLUMB 2 INCHES IN THE DIRECTION OF TRAFFIC FOR THE LENGTH OF 20 FEET AND INDENTION IN COVER PLATE 3 FEET X 2 INCHES IN THE IMPACT AREA. AN INDENTION IN FLANGE 8 INCHES X 1/4 INCHES AT 21 FEET 3 INCHES, A 8 INCHES X 1/4 INCHES AT 22 FEET 11 INCHES A 5 INCHES X 1/16 INCHES AT 17 FEET 4 INCHES, A 29 INCHES X 1/2 INCHES AT 27 FEET ZERO INCHES ALL FROM FACE OF BENT 1. INDENTIONS IN FLANGE COVER PLATE 6 INCHES X 1/16 INCHES AT 23 FEET FOUR INCHES, A 6 INCHES X 1/16 INCHES AT 22 FEET 9 INCHES, A 8 INCHES X 1/32 INCHES AT 21 FEET 6 INCHES, A 6 INCHES X 1/16 INCHES AT 21 FEET 1 INCHES, A 8 INCHES X 1/16 INCHES AT 18 FEET 9 INCHES, A 6 INCHES X 1/32 INCHES AT 16 FEET FOUR INCHES, A 1 INCHES X 1/32 INCHES AT 25 FEET FIVE INCHES ALL FROM FACE OF BENT 1. GOUGES IN FLANGE COVER PLATE ONE INCHES X 1/32 INCHES AT 25 FEET FIVE INCHES ALL FROM FACE OF BENT 1. GOUGES IN FLANGE COVER PLATE ONE INCHES X 1/32 INCHES AT 25 FEET FIVE INCHES ALL FROM FACE OF BENT 1. GOUGES IN FLANGE COVER PLATE ONE INCHES X FOUR INCHES X 1/16 INCHES AT 21 FEET ONE INCHES AND 3/4 INCHES X 3 INCHES X 1/16 INCHES AT 25 FEET FIVE INCHES FROM FACE OF BENT 1.

Date: 08/17/2023

Condition Photos



Bent 2 Cap 1: WEST END OF CAP HAS A SURFACE SPALL AND DELAMINATED AREA 4 INCHES X 10 INCHES X 1/2 INCHES WITH EXPOSED RUSTED REINFORCING [NO LOSS]



Bent 2 Pile 1: 5 INCHES X 5 INCHES X 1 INCHES SPALL ON SOUTH WEST CORNER 18 INCHES ABOVE THE GROUND.

Date: 08/17/2023

Condition Photos



Span 3 Beam 1: at bent 3, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)



Span 4 Beam 1: at bent 3, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)

Date: 08/17/2023

Condition Photos



Span 3 Beam 2: at bent 3, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)



Span 3 Beam 3: (PAR) at bent 3, web adjacent to end diaphragm, corrosion with section loss (7/16 inch average remaining x 10 inch x 2.5 inch)

County: BURKE

Date: 08/17/2023

Condition Photos



Span 3 Beam 3 - Far Bearing 3: corrosion with section loss (up to 1/8 inch loss)



Span 3 Beam 4: at bent 3, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)

Date: 08/17/2023

Condition Photos



Span 3 Beam 4: (PAR) DIAPHRAGM OVER BENT 3 UNDER RIGHT OVERHANG, DELAMINATION/SPALL [FULL HEIGHT X 2 FOOT X 2 INCHES DEEP] WITH TWO [2] EXPOSED RUSTED REINFORCING WITH APPROXIMATELY 25 PERCENT LOSS

Condition Photos

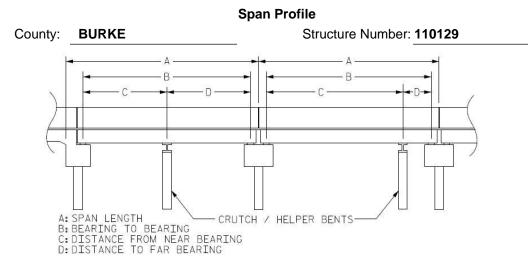


Span 3 Beam 4: BAY 3 DIAPHRAGM OVER BENT 3, SPALL/DELAMINATION [2] [UP TO 6 INCHES X 3 INCHES X UP TO 3/4 INCHES DEEP] WITH EXPOSED RUSTED REINFORCING



Span 3 Deck: AT BENT 3 UNDER RIGHT OVERHANG, DELAMINATION [28 INCHES X 12 INCHES]

Structure Data Worksheet



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	62.000	59.708			
2	70.000	69.167			
3	70.000	69.167			
4	70.000	67.375			



roadway under span 2, looking east

Route Number: 110004	400	Route Na	ime: I	Reference Feature:	Н			
Minimum Vertical Clearance 14.708 feet				um Minimum Vertical (Clearance 14.810) feet		
Total Horizontal Clearance 42.970 feet Lateral Clearances: Left: 12.780 feet Right 11.000 feet								
✓ Base Highway Netwo	LRS Inv	entory F	Route, Sub Route Num	ber 10040				
Milepost: 100.850	Number	of Lanes:	f Lanes: 2 ADT: 17000 Year of ADT: 2015 Percentage of					
✓ National Highway System								
Functional Classification 11 Local Principal Arterial - Interstate Direction of Traffic: 1 1 - way traffic								



roadway under span 3, looking west

Route Number: 110004	400	Route Na	ame: I	40 W	Reference Feature: H			
Minimum Vertical Clearance 15.390 feet				um Minimum Vertical (Clearance 15.790 feet			
Total Horizontal Clearance 42.500 feet Lateral Clearances: Left: 13.610 feet Right 10.000 feet								
✓ Base Highway Netwo	LRS Inv	entory F	Route, Sub Route Num	ber 10040				
Milepost: 100.850	Number	of Lanes: 2 ADT: 17000 Year of ADT: 2015 Percentage of Trucks:						
✓ National Highway System								
Functional Classification 11 Local Principal Arterial - Interstate Direction of Traffic: 1 1 - way traffic								

Bri	dge Inspe	ction Field	d Sketch	
Roadway	21.583ft Wide	2 Paved Lanes	Looking North	
Left Shoulder	7ft Wide	1ft Paved	6ft Unpaved	
Right Shoulder	5ft Wide	1ft Paved	4ft Unpaved	
Left Guardrail				
Right Guardrail				
MEASUREMENTS TAKE	N 125' FROM END BENT 1			
Title APPROACH ROADWAY		Description LOOKING NORTH		
Structure No: 110129	Drawn By: JCRODRIGUEZ	Date: 8/17/2	023 Filename: S000930000238.wes	s

ſ	Deck Width/Out to Out	33.5ft	Betweer	Paile			1.25ft	
F	Clear Roadway	28ft	Wearing			5in		
	Median Width	2011	Median					
F	Curb Height		Left	9in	Rig	ht 9in		
	Sidewalk Width		Left	1.583ft	Rig		0	
F	Clear Roadway (Rail to Median)	Left	1.3031	Rig				
	Guardrail Width	Left	10in	Rig				
	Top of Rail to Deck/Wearing Surf	face	Left	2.417ft	Rig		ft	
	Bridge Rail Type		Left	Type 11	Rig			
М	leasurements for Span #	1	All Span	s Similar				
D	eck Thickness	7.5in	Left Overhang 4.75f					
Т	op of Rail to Bottom of Beam (Ave	g) 6.083ft	3ft Right Overhang 4.75					
	1		1		1			
Beam #	Beam Type		Width	Height	Spacing	From		
1	Plate Girder		12.125in		4.75ft	Left Edge of Deck		
2	Plate Girder		12.125in		8ft	Beam 1		
3	Plate Girder		12.125in		8ft	Beam 2		
4	Plate Girder		12.125in	36in	8ft	Beam 3		
	34-1/4"	S DIMENSI 5/8" 12-1/8" Plates:	_ ▼ _ 0.9	90" at th at the w	e edge /eb			

	Br	idge I	nsp	ec	tic	n F	ield	Ske	etch	
Caps # Name	Тур		16	ength	Width	Height	Left Beam	to End of Ca	n Right Bea	m to End of Cap
1 Cap 1		forced Concrete Pie		6ft	30in	30in	1ft		2ft	
Piles # Name		Туре		Spacin	a Fi	rom		Height/Di	am. Width	Length
1 Pile 1		Reinforced Concr	ete Column	4ft		eft End of B			30in	Length
2 Pile 2		Reinforced Concr	ete Column	14ft	Pile 1 30in			30in	30in	
3 Pile 3		Reinforced Concr	ete Column	14ft	Pi	le 2		30in	30in	
Title BENT SKETCH					Desc LOC	ription OKING NO	RTH			

Date: 08/17/2023

Structure Photos



bent 2



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

Structure Photos



east profile looking west





west profile looking east



superstructure underside



end bent 1 and slope protection



southeast wingwall

Date: 08/17/2023



southwest wingwall



intermediate diaphragm

Date: 08/17/2023

Structure Photos



end diaphragm



southeast guardrail termination



southwest guardrail termination



south approach looking north



southwest guardrail attachment



southwest guardrail

County: BURKE

Date: 08/17/2023

County: BURKE

Date: 08/17/2023

Structure Photos



bridge number



bridge plaque

Date: 08/17/2023

Structure Photos



southeast guardrail attachment



southeast guardrail



Structure Photos

County: BURKE

Structure: 110129

southeast guardrail transition



end bent 1 asphalt

County: BURKE

Date: 08/17/2023

Structure Photos



bent 1 asphalt



south approach looking south

County: BURKE

Date: 08/17/2023

Structure Photos



bent 2 asphalt



roadway looking east



roadway looking west



bent 3 asphalt

Structure Photos



north approach looking north



northwest guardrail attachment

County: BURKE

Date: 08/17/2023

Structure Photos



northwest guardrail



northwest guardrail transition

County: BURKE

Date: 08/17/2023

Structure Photos



end bent 2 asphalt



northeast guardrail attachment



northeast guardrail



north approach looking south

Date: 08/17/2023

Structure Photos



northwest guardrail termination



northeast guardrail termination

County: BURKE

Date: 08/17/2023

Structure Photos



northwest wingwall



end bent 2 and slope protection

Structure Photos





northeast wingwall



end bearing assembly

Date: 08/17/2023



bent 1



typical cover plate termination

County: BURKE

Date: 08/17/2023

Structure Photos



interior bearing assembly



beams over bent

County: BURKE

Date: 08/17/2023

Structure Photos



ladder used



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