NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: PRIORITY ACTION REQUEST ISSUED; CHANGE TO APPROACH ROADWAY DATA

Structure Safety Report

Routine Element Inspection - Contract

STRUCTURE NUMBER: 430158 **SAP STRUCTURE NO:** 0440158 **FHWA STRUCTURE NO:** 000000000870158

DIVISION: 14 **COUNTY:** HAYWOOD **INSPECTION DATE:** 05/09/2023 **FREQUENCY:** 24 MONTHS

FACILITY CARRIED: US23,74 SBL **MILE POST:**

LOCATION: 0.1 MI.S.JCT.US19,23

FEATURE INTERSECTED: RICHLAND CREEK

LATITUDE: 35° 30' 58.3" **LONGITUDE:** 82° 58' 12.24"

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON I-BEAMS

SUBSTRUCTURE: E.BTS:RC CAPS/H-PILES;INT.BTS:RC POST&BEAM

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

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

GRADES: (Inspector/NBI Coding) **DECK** 6 / 6 **SUPERSTRUCTURE** 4 / 4 **SUBSTRUCTURE** 5 / 5 **CULVERT** N / N

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

OTHER SIGNS PRESENT: NONE

LOOKING NORTH

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

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS

INSPECTED BY	SIGNATURE	ASSISTED BY
Mike Lee	Mike Lee	Mat Spencer

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

07/27/2023

IDENTIFICATION

(1) STATE NAME	NORTH CAROLINA	BRIDGE	**430158**
(8) STRUCTURE NUMBER (FEDERAL)			**0870158**
(5) INVENTORY ROUTE (ON/UNDER)	ON		**121000230**
(2) STATE HIGHWAY DEPARTMENT DISTRICT			**14**
(3) COUNTY CODE (FEDERAL)	**87**	(4) PLACE CODE	**71500**
(6) FEATURE INTERSECTED	**RICHLAND CREEK**		
(7) FACILITY CARRIED	**US23,74 SBL**		
(9) LOCATION	**0.1 MI.S.JCT.US19,23**		
(11) MILEPOINT			**0.0**
(12) BASE HIGHWAY NETWORK			**1**
(13) LRS INVENTORY ROUTE & SUBROUTE			**20023**
(16) LATITUDE	**35° 30' 58.3"**	(17) LONGITUDE	**82° 58' 12.24"**
(98) BORDER BRIDGE STATE CODE		PERCENT SHARED	
(99) BORDER BRIDGE STRUCTURE NUMBER			

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN			**Steel**
TYPE	**Stringer/Multi-beam or girder**	CODE	**302**
(44) STRUCTURE TYPE APPROACH			
TYPE		CODE	
(45) NUMBER OF SPANS IN MAIN UNIT			**4**
(46) NUMBER OF SPANS IN APPROACH			**0**
(107) DECK STRUCTURE TYPE		CODE	**1**
(108)WEARING SURFACE/PROTECTIVE SYSTEM			
(A) TYPE OF WEARING SURFACE		CODE	**6**
(B) TYPE OF MEMBRANE		CODE	**0**
(C) TYPE OF DECK PROTECTION		CODE	**0**

AGE AND SERVICE

(27) YEAR BUILT			**1965**
(106) YEAR RECONSTRUCTED			**0**
(42) TYPE OF SERVICE ON -			**Highway**
OFF -	**Waterway**	CODE	**15**
(28) LANES ON STRUCTURE	**2**	LANES UNDER STRUCTURE	**0**
(29) AVERAGE DAILY TRAFFIC			**15750**
(30) YEAR OF ADT	**2020**	(109) TRUCK ADT PCT	**12**
(19) BYPASS OR DETOUR LENGTH			**1.0**

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN			**49.0**
(49) STRUCTURE LENGTH			**200.0**
(50) CURB OR SIDEWALK: LEFT	**0.9**	RIGHT	**0.9**
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB			**28.0**
(52) DECK WIDTH OUT TO OUT			**33.3**
(32) APPROACH ROADWAY WITH (W/ SHOULDERS)			**28.0**
(33) BRIDGE MEDIAN	**Open median**	CODE	**1**
(34) SKEW	**30**	(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			**0.0**
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE	**N**		**0.0**
(56) MIN LAT UNDERCLEARANCE LT:			**0.0**

NAVIGATION DATA

(38) NAVIGATION CONTROL -	CODE	**0**
(111) PIER PROTECTION	CODE	
(39) NAVIGATION VERTICAL CLEARANCE		**0.0**
(116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR		**0.0**
(40) NAVIGATION HORIZONTAL CLEARANCE		**0.0**

SUFFICIENCY RATING	**49.43**
STATUS =	**Structurally Deficient**

CLASSIFICATION

		CODE
(112) NBIS BRIDGE SYSTEM		**YES**
(104) HIGHWAY SYSTEM	**Inventory Route is on NHS**	**1**
(26) FUNCTIONAL CLASS	**Urban Principal Arterial - Other Freeways**	**12**
(100) STRAHNET HIGHWAY	**Non-Interstate STRAHNET Route**	**2**
(101) PARALLEL STRUCTURE	**The left structure of parallel bridges**	**L**
(102) DIRECTION OF TRAFFIC	**1-way traffic**	**1**
(103) TEMPORARY STRUCTURE		
(110) DESIGNATED NATIONAL NETWORK -	**on natiional network for trucks**	**1**
(20) TOLL	**On Free Road**	**3**
(21) MAINT -		**01**
(22) OWNER -		**01**
(37) HISTORICAL SIGNIFICANCE -		**5**

CONDITION

	CODE
(58) DECK	**6**
(59) SUPERSTRUCTURE	**4**
(60) SUBSTRUCTURE	**5**
(61) CHANNEL & CHANNEL PROTECTION	**7**
(62) CULVERTS	**N**

LOAD RATING AND POSTING

		CODE
(31) DESIGN LOAD	**H 20 + Mod**	**6**
(63) OPERATING RATING METHOD -	**Load Factor**	**1**
(64) OPERATING RATING -	**HS-47**	**84**
(65) INVENTORY RATING METHOD -		**1**
(66) INVENTORY RATING	**HS-28**	**50**
(70) BRIDGE POSTING	**No Posting Required**	**5**
(41) STRUCTURE OPEN, POSTED, OR CLOSED		**A**
DESCRIPTION	**Open, no restriction**	

APPRAISAL

	CODE
(67) STRUCTURAL EVALUATION	**4**
(68) DECK GEOMETRY	**3**
(69) UNDERCLEARANCES, VERT & HORIZ	**N**
(71) WATERWAY ADEQUACY	**7**
(72) APPROACH ROADWAY ALIGNMENT	**8**
(36) TRAFFIC SAFETY FEATURES	**0000**
(113) SCOUR CRITICAL BRIDGES	**8**

PROPOSED IMPROVEMENTS

(75) TYPE OF WORK	CODE
(76) LENGTH OF STRUCTURE IMPROVEMENT	
(94) BRIDGE IMPROVEMENT COST	
(95) ROADWAY IMPROVEMENT COST	
(96) TOTAL PROJECT COST	
(97) YEAR OF IMPROVEMENT COST ESTIMATE	
(114) FUTURE ADT **31,500**	YEAR OF FUTURE ADT **2040**

INSPECTION

(90) INSPECTION DATE	**05/23**	(91) FREQUENCY	**24**
(92) CRITICAL FEATURE INSPECTION		(93) CFI DATE	
A) FRACTURE CRIT DETAIL		A)	
B) UNDERWATER INSP		B)	
C) OTHER SPECIAL INSP		C)	
SCOUR			

Structure Number **430158** County **HAYWOOD** Run Date **07/27/2023**

Span Number	Facility Carried	Inventory Route	Maximum Minimum Vertical Clearance	Milepoint	Base Highway	LRS Inventory Route	Functional Classification	Number of Lanes	Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	*See Note Below*					STRAHNET Highway	Direction of Traffic	National Highway System	National Truck Network
												Reference Feature	Minimum Vertical Underclearance	Rigth Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade				
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
4	Greenway	88000000		0.0							23.0	G	7.9	4.0	11.0				☐	☐

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** 50.000 **Skew** 120.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
4	Plate Girder	Steel Open Girder/Beam	200 Feet	Legacy Red Lead Primer Systems with Various Topcoats	1860
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1663 Square Feet		
4	Movable Bearing	Movable Bearing	4 Each	Galvanized Protective System	4
4	Fixed Bearing	Fixed Bearing	4 Each	Galvanized Protective System	4
1	Asphalt Wearing Surface	Wearing Surface	1400 Square Feet		
1	Concrete and Metal Railing	Other Bridge Railing	50 Feet		

Span Number 2 **Span Length** 50.000 **Skew** 120.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	1400 Square Feet		
4	Plate Girder	Steel Open Girder/Beam	200 Feet	Legacy Red Lead Primer Systems with Various Topcoats	1860
1	Concrete and Metal Railing	Other Bridge Railing	50 Feet		
4	Movable Bearing	Movable Bearing	4 Each	Galvanized Protective System	4
4	Fixed Bearing	Fixed Bearing	4 Each	Galvanized Protective System	4
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1663 Square Feet		
1	Standard Joint	Pourable Joint Seal	32 Feet		

Span Number 3 **Span Length** 50.000 **Skew** 120.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Concrete and Metal Railing	Other Bridge Railing	50 Feet		
1	Asphalt Wearing Surface	Wearing Surface	1400 Square Feet		
1	Standard Joint	Pourable Joint Seal	32 Feet		
4	Plate Girder	Steel Open Girder/Beam	200 Feet	Legacy Red Lead Primer Systems with Various Topcoats	1856

Superstructure Build Details

1	Reinforced Concrete Deck	Reinforced Concrete Deck	1663	Square Feet		
4	Fixed Bearing	Fixed Bearing	4	Each	Galvanized Protective System	4
4	Movable Bearing	Movable Bearing	4	Each	Galvanized Protective System	4

Span Number 4 **Span Length** 50.000 **Skew** 120.000

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	1400	Square Feet		
1	Standard Joint	Pourable Joint Seal	32	Feet		
1	Concrete and Metal Railing	Other Bridge Railing	50	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1663	Square Feet		
4	Movable Bearing	Movable Bearing	4	Each	Galvanized Protective System	4
4	Fixed Bearing	Fixed Bearing	4	Each	Galvanized Protective System	4
4	Plate Girder	Steel Open Girder/Beam	200	Feet	Legacy Red Lead Primer Systems with Various Topcoats	1860

Structure Element Scoring

Structure Number: **430158**

Inspection Date **5/9/2023**

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12		Reinforced Concrete Deck	Deck	6,652	1,350	5,300	2	0
107		Steel Open Girder/Beam	Beam	800	0	761	0	39
205		Reinforced Concrete Column	Piles and Columns	6	0	2	4	0
215		Reinforced Concrete Abutment	Abutments	80	75	0	5	0
225		Steel Pile	Piles and Columns	12	12	0	0	0
234		Reinforced Concrete Pier Cap	Caps	177	46	0	131	0
301		Pourable Joint Seal	Expansion Joints	96	96	0	0	0
311		Movable Bearing	Bearing Device	16	0	0	16	0
313		Fixed Bearing	Bearing Device	16	0	8	8	0
333		Other Bridge Railing	Bridge Rail	200	0	200	0	0
510		Wearing Surface	Wearing Surfaces	5,600	4,882	625	93	0
515	107	Steel Protective Coating	Beam	7,436	4,841	0	2,189	406
515	311	Steel Protective Coating	Bearing Device	16	0	0	0	16
515	313	Steel Protective Coating	Bearing Device	16	0	2	3	11

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **430158** Inspection Date: **05/09/2023**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Cracking (RC and Other)	4800 Square Feet
3326	Reinforced Concrete Deck	Delamination/Spall	2 Square Feet
3314	Steel Open Girder/Beam	Damage	2 Feet
3314	Steel Open Girder/Beam	Corrosion	41 Feet
3348	Reinforced Concrete Column	Cracking (RC and Other)	21 Each
3348	Reinforced Concrete Column	Delamination/Spall	6 Each
3350	Reinforced Concrete Abutment	Delamination/Spall	1 Feet
3350	Reinforced Concrete Abutment	Cracking (RC and Other)	5 Feet
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	181 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	51 Feet
3348	Reinforced Concrete Pier Cap	Patched Area	4 Feet
3334	Movable Bearing	Corrosion	16 Each
3334	Fixed Bearing	Corrosion	8 Each
3318	Other Bridge Railing	Delamination/Spall	2 Feet
2816	Wearing Surface	Crack (Wearing Surface)	716 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	2627 Square Feet

Element Structure Maintenance Quantities

Structure Number: **430158** Inspection Date **05/09/2023**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Beam	3314	Maintenance Steel Superstructure Components	39	800	39.000	0.000	761.000	0.000
Beam	3342	Clean and Paint Steel	2595	7436	406.000	2189.000	0.000	4841.000
Bearing Device	3334	Bridge Bearing	16	16	0.000	16.000	0.000	0.000
Bearing Device	3334	Bridge Bearing	8	16	0.000	8.000	8.000	0.000
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	11.000	3.000	2.000	0.000
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	2	200	0.000	0.000	200.000	0.000
Deck	3326	Maintenance of Concrete Deck	4802	6652	0.000	2.000	5300.000	1350.000
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	96	0.000	0.000	0.000	96.000
Wearing Surfaces	2816	Asphalt Surface Repair	716	5600	0.000	93.000	625.000	4882.000
Abutments	3350	Maintenance of Concrete Wings and Wall	6	80	0.000	5.000	0.000	75.000
Caps	3348	Maintenance of Concrete Substructure	236	177	0.000	131.000	0.000	46.000
Piles and Columns	3348	Maintenance of Concrete Substructure	27	6	0.000	4.000	2.000	0.000
Piles and Columns	3354	Maintenance of Steel Substructure Components	0	12	0.000	0.000	0.000	12.000

Priority Actions Request

Structure Number **430158**

Span1

3314 **Beam 1** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 1 Beam 1: PAR: CORROSION ALONG BOTTOM FLANGE AND WEB. FLANGE REDUCED TO 3/16 INCHES WITH 1/2 INCH AVERAGE REMAINING FOR 36 INCHES LONG X 11 5/8 INCHES WIDE BEGINNING AT FAR END. WEB ALSO REDUCED TO 3/8 INCHES WITH 7/16 INCH AVERAGE REMAINING THE FULL HEIGHT X 11 INCHES LONG BEGINNING AT THE FAR END.

3314 **Beam 4** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	5	Span 1 Beam 4: PAR: CORROSION ALONG BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 60 INCHES LONG X 31 1/2 INCHES HIGH DOWN TO 7/16 INCHES RESIDUAL WEB, AND 60 INCHES LONG X 11 5/8 INCHES WIDE DOWN TO 5/16 INCHES RESIDUAL FLANGE AT BENT 1

Span2

3314 **Beam 1** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
3	Corrosion	8	Span 2 Beam 1: PAR: CORROSION ALONG BOTH FACES OF WEB AND BOTTOM FLANGE. WEB: UP TO 8 FEET LONG X FULL HEIGHT DOWN TO 1/8 INCHES RESIDUAL WEB WITH 4 INCHES WIDE X 7 INCHES HIGH X 1/2 INCHES DEEP BUCKLING AT THE BASE OF THE WEB. 8 FEET LONG X FULL WIDTH DOWN TO 1/16 INCHES RESIDUAL FLANGE AT BENT 1.

3314 **Beam 4** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	6	Span 2 Beam 4: PAR: CORROSION ALONG BOTH FACES OF WEB, BOTTOM FLANGE AND LEFT STIFFENER UP TO 60 INCHES LONG X 31 1/2 INCHES HIGH DOWN TO 1/2 INCHES RESIDUAL WEB, 66 INCHES LONG X 11 5/8 INCHES WIDE DOWN TO KNIFE'S EDGE RESIDUAL FLANGE WITH 2 INCHES X 3 INCHES LOSS OF SECTION, AND 10 INCHES HIGH X 5 INCHES WIDE DOWN TO KNIFE'S EDGE RESIDUAL STIFFENER WITH 1 INCHES DIAMETER HOLE AT BENT 1; TIMBER BLOCK ADDED ADJACENT TO BEAM

Span3

3314 **Beam 1** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	4	Span 3 Beam 1: PAR: CORROSION ALONG BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 43 INCHES LONG X 10 INCHES HIGH DOWN TO 1/2 INCHES RESIDUAL WEB, AND 36 INCHES LONG X UP TO 11 INCHES WIDE WITH SECTION LOSS DOWN TO KNIFES EDGE WITH 1/4 INCH AVERAGE REMAING FULL WIDTH OF FLANGE WITH 8 INCH X 2 INCH AREA AT BEARING

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

Priority Actions Request

Structure Number **430158**

THAT IS PAPER THIN WITH PERFORATIONS ON RIGHT SIDE AT BENT 3

3314 **Beam 2** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 3 Beam 2: PAR: CORROSION ALONG BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 10 INCHES LONG X 4 INCHES HIGH DOWN TO 1/4 INCHES RESIDUAL WEB, AND 12 INCHES LONG X 5 1/2 INCHES WIDE DOWN TO 3/8 INCHES RESIDUAL FLANGE AT BENT 2

3314 **Beam 4** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	6	Span 3 Beam 4: PAR--6 FOOT LONG CORROSION IN BOTTOM FLANGE REPAIR PLATE WITH 1/4 INCH AVERAGE REMAINING WITH 1 1/2 INCH X 1/2 INCH HOLE IN LEFT SIDE AT 18 INCHES FROM BEARING, BOTTOM FLANGE BELOW REPAIR PLATE WITH 3/8 INCH AVERAGE REMAINING WITH 24 INCH X UP TO 1 1/2 INCH WIDE HOLE IN LEFT SIDE STARTING AT BEARING. MEASUREMENTS OF WELDED PLATE REPAIRS ON BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 60 INCHES LONG X 21 1/2 INCHES HIGH X 1/2 INCH THICK IN WEB, AND 60 INCHES LONG X 4 INCHES WIDE X 1/2 INCH THICK IN FLANGE AT BENT 2

Span4

3314 **Beam 1** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	7	Span 4 Beam 1: PAR: CORROSION ALONG BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 72 INCHES LONG X 31 1/2 INCHES HIGH DOWN TO 7/16 INCHES RESIDUAL WEB, AND 82 INCHES LONG X 11 5/8 INCHES WIDE DOWN TO 3/8 INCHES RESIDUAL FLANGE AT BENT 3

Bent 1

3348 **Cap 1** Reinforced Concrete Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	5	Bent 1 Cap 1: PAR: 50 INCHES X 4 INCHES X 5 INCHES SPALL WITH EXPOSED REBAR WITH MINOR SECTION LOSS IN BOTTOM AND SPAN 1 FACE OF CAP AT LEFT END

Bent 2

3348 **Cap 1** Reinforced Concrete Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
2	Patched Area	4	Bent 2 Cap 1: PAR: 30 INCHES X 30 INCHES X 12 INCHES DEEP SPALL WITH

Priority Actions Request

Structure Number **430158**

EXPOSED REBAR WITH MINOR SECTION LOSS AND FAILED REPAIR WITH 4 FEET SECTION OF FORMWORK IN RIGHT END OF CAP

Bent 3

3348 **Cap 1** Reinforced Concrete Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	7	Bent 3 Cap 1: PAR: 78 INCHES X 30 INCHES X 9 INCHES AREA OF DELAMINATION WITH UP TO 1/16 INCHES VERTICAL AND HORIZONTAL CRACKS AND 48 INCHES X 6 INCHES X 6 INCHES SPALL WITH EXPOSED REBAR WITH MINOR SECTION LOSS IN TOP, BOTTOM, LEFT END AND SPAN 3 FACE OF CAP
2	Delamination/Spall	17	Bent 3 Cap 1: PAR: 96 INCHES X 6 INCHES X 9 INCHES SPALL WITH EXPOSED REBAR WITH MINOR SECTION LOSS AND 125 INCHES X 6 INCHES X 12 INCHES AREA OF DELAMINATION WITH UP TO 1/4 INCHES LONGITUDINAL AND HORIZONTAL CRACKS IN BOTTOM AND SPAN 4 FACE OF CAP BETWEEN COLUMNS

Element Condition and Maintenance Data

Structure Number: **430158** Inspection Date: **05/09/2023**

Span 1 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,663	162	1,500	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **12**	Delamination/Spall	8 INCHES DIAMETER X 4 INCHES DEEP SPALL INCHES BOTTOM OF DECK AT CORED HOLE LOCATION INCHES BAY 1, APPROXIMATELY 15 FEET FROM BENT 1	3	1	1	Square Feet
☑ **12**	Cracking (RC and Other)	ALONG BOTH OVERHANG DECK SOFFITS, HAIRLINE MAP CRACKING WITH ABRASION UP TO 1/16 INCH DEEP WITH EXPOSED BUT SECURE AGGREGATE AND EFFLORESCENCE AND RUST STAINING	2	300	300	Square Feet
☑ **12**	Cracking (RC and Other)	UP TO 1/32 INCHES TRANSVERSE AND LONGITUDINAL AND HAIRLINE MAP CRACKS WITH AND WITHOUT EFFLORESCENCE INCHES BOTTOM OF DECK INCHES VARIOUS LOCATIONS	2	1,200	1,200	Square Feet

General Comments

Span 1 Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	50	0	48	0	2	Feet
515	Steel Protective Coating	465	290	0	150	25	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	PAR: CORROSION ALONG BOTTOM FLANGE AND WEB. FLANGE REDUCED TO 3/16 INCHES WITH 1/2 INCH AVERAGE REMAINING FOR 36 INCHES LONG X 11 5/8 INCHES WIDE BEGINNING AT FAR END. WEB ALSO REDUCED TO 3/8 INCHES WITH 7/16 INCH AVERAGE REMAINING THE FULL HEIGHT X 11 INCHES LONG BEGINNING AT THE FAR END.	4	2	2	Feet
☑ **107**	Corrosion	AREAS OF SURFACE CORROSION THROUGHOUT BEAM	2	44		Feet
☑ **107**	Corrosion	CORROSION WITH NO MEASURABLE LOSS OF SECTION ALONG RIGHT EDGE OF BOTTOM FLANGE 12 INCHES LONG X 3 INCHES WIDE AT END BENT 1	2	1		Feet
☑ **107**	Corrosion	CORROSION WITH NO MEASURABLE LOSS OF SECTION ALONG RIGHT FACE OF WEB AND FLANGES UP TO 27 INCHES LONG X 5 1/2 INCHES WIDE INCHES TOP FLANGE, 27 INCHES LONG X 31 1/2 INCHES HIGH INCHES WEB, AND 36 INCHES LONG X 5 1/2 INCHES WIDE INCHES BOTTOM FLANGE, APPROXIMATELY 11 FEET FROM BENT 1	2	3		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT HAS FAILED WITH BARE METAL EXPOSED AT BEAM ENDS AND APPROXIMATELY 11 FEET FROM BENT 1	4	25	25	Square Feet

☑ **515**	Effectiveness (Steel Protective Coatings)	AREAS OF DETERIORATED PAINT SYSTEM THROUGHOUT BEAM	3	150	150	Square Feet

General Comments

Span 1 Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	50	0	50	0	0	Feet
515	Steel Protective Coating	465	313	0	152	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	AREAS OF SURFACE CORROSION THROUGHOUT BEAM	2	48		Feet
☑ **107**	Corrosion	FRECKLED SURFACE RUST ALONG BEAM ENDS ON WEB AND FLANGES AT BENT 1 END.	2	2		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	AREAS OF DETERIORATED PAINT SYSTEM THROUGHOUT BEAM	3	150	150	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT HAS FAILED WITH BARE METAL EXPOSED AT BENT 1 END.	3	2	2	Square Feet

General Comments

Span 1 Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	50	0	50	0	0	Feet
515	Steel Protective Coating	465	313	0	152	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	AREAS OF SURFACE CORROSION THROUGHOUT BEAM	2	48		Feet
☑ **107**	Corrosion	FRECKLED SURFACE RUST ALONG BEAM ENDS ON WEB AND FLANGES AT BENT 1 END.	2	2		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	AREAS OF DETERIORATED PAINT SYSTEM THROUGHOUT BEAM	3	150	150	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT HAS FAILED WITH BARE METAL EXPOSED AT BENT 1 END.	3	2	2	Square Feet

General Comments

Span 1 Beam 4

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	50	0	45	0	5	Feet
515	Steel Protective Coating	465	299	0	150	16	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	PAR: CORROSION ALONG BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 60 INCHES LONG X 31 1/2 INCHES HIGH DOWN TO 7/16 INCHES RESIDUAL WEB, AND 60 INCHES LONG X 11 5/8 INCHES WIDE DOWN TO 5/16 INCHES RESIDUAL FLANGE AT BENT 1	4	5	5	Feet

☑ **107**	Corrosion	AREAS OF SURFACE CORROSION THROUGHOUT BEAM	2	45		Feet
☑ **107**	Corrosion	FRECKLED SURFACE RUST ALONG BEAM ENDS ON WEB AND FLANGES AT BENT 1 END. - NOT OBSERVED DURING 2021 INSPECTION	2			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT HAS FAILED WITH BARE METAL EXPOSED AT BENT 1 END.	4	16	16	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	AREAS OF DETERIORATED PAINT SYSTEM THROUGHOUT BEAM	3	150	150	Square Feet

General Comments

Span 1 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,400	1,191	209	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **510**	Crack (Wearing Surface)	UP TO 1/32 INCHES DIAGONAL CRACKS ALONG END BENT 1 FILL FACE INCHES INSIDE LANE	2	8	8	Square Feet
☑ **510**	Crack (Wearing Surface)	UP TO 1/32 INCHES TRANSVERSE AND LONGITUDINAL CRACKS INCHES VARIOUS LOCATIONS	2	200	200	Square Feet
☑ **510**	Patched Area/Pothole (Wearing Surface)	8 INCHES DIAMETER PATCHED CORED HOLE INCHES OUTSIDE LANE, APPROXIMATELY 15 FEET FROM BENT 1	2	1		Square Feet

General Comments

Span 1 — Right Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	50	0	50	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **333**	Cracking (RC and Other)	FULL LENGTH ABRASION UP TO 1/16 INCH DEEP WITH EXPOSED BUT SECURE AGGREGATE WITH UP TO 0.035 INCHES TRANSVERSE AND VERTICAL CRACKS SCATTERED THROUGHOUT	2	50		Feet

General Comments

Span 1 — Near Bearing

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	SPAN 1 BEAM 1 NEAR BEARING: CORROSION WITH NO MEASURABLE SECTION LOSS	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS, NO PROTECTION OF UNDERLYING METAL	4	1	1	Square Feet

General Comments

Span 1 — Far Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	SPAN 1 BEAM 1 FAR BEARING: CORROSION WITH NO MEASURABLE SECTION LOSS	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH BARE METAL EXPOSED.	4	1	1	Square Feet

General Comments

Span 1 — Near Bearing

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	SPAN 1 BEAM 2 NEAR BEARING: FRECKLED SURFACE RUST ON PLATE SURFACES.	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 2 BEARING	3	1	1	Square Feet

General Comments

Span 1 — Far Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	SPAN 1 BEAM 2 FAR BEARING: CORROSION WITH NO MEASURABLE SECTION LOSS	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH BARE METAL EXPOSED.	4	1	1	Square Feet

General Comments

Span 1 Near Bearing

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	SPAN1 BEAM 3 NEAR BEARING: FRECKLED SURFACE RUST ON PLATE SURFACES.	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 3 BEARING	3	1	1	Square Feet

General Comments

Span 1 Far Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	SPAN1 BEAM 3 FAR BEARING: CORROSION WITH NO MEASURABLE SECTION LOSS	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH BARE METAL EXPOSED.	4	1	1	Square Feet

General Comments

Span 1 Near Bearing

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	SPAN 1 BEAM 4 NEAR BEARING: FRECKLED SURFACE RUST ON PLATE SURFACES.	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS, NO PROTECTION OF UNDERLYING METAL	4	1	1	Square Feet

General Comments

Span 1 Far Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	SPAN 1 BEAM 4 FAR BEARING: CORROSION WITH NO MEASURABLE SECTION LOSS	3	1	1	Each

☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH BARE METAL EXPOSED.	4	1	1	Square Feet

General Comments

Span 2 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,663	463	1,200	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **12**	Cracking (RC and Other)	UP TO 1/32 INCHES TRANSVERSE AND LONGITUDINAL AND HAIRLINE MAP CRACKS WITH AND WITHOUT EFFLORESCENCE INCHES BOTTOM OF DECK INCHES VARIOUS LOCATIONS	2	1,200	1,200	Square Feet

General Comments

Span 2 Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	50	0	42	0	8	Feet
515	Steel Protective Coating	465	255	0	150	60	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	PAR: CORROSION ALONG BOTH FACES OF WEB AND BOTTOM FLANGE. WEB: UP TO 8 FEET LONG X FULL HEIGHT DOWN TO 1/8 INCHES RESIDUAL WEB WITH 4 INCHES WIDE X 7 INCHES HIGH X 1/2 INCHES DEEP BUCKLING AT THE BASE OF THE WEB. 8 FEET LONG X FULL WIDTH DOWN TO 1/16 INCHES RESIDUAL FLANGE AT BENT 1.	4	8	8	Feet
☑ **107**	Corrosion	AREAS OF SURFACE CORROSION THROUGHOUT BEAM	2	34		Feet
☑ **107**	Corrosion	AT BENT 2 END, REPAIR HAS BEEN INSTALLED CONSISTING OF 6 INCH X 6 INCH X 1/2 INCH ANGLE THAT IS 5 FEET LONG BOLTED TO WEB AND FLANGE WITH 3/4 INCH DIAMETER BOLTS SPACED AT 6 INCH ON CENTER. WEB HAS 10 INCH LONG X 1 FEET 9 INCH HIGH X 3/8 INCH THICK PLATE ALSO BOLTED WITH 3/4 INCH DIAMETER BOLTS. ANGLE HAS 1/16 INCH SECTION LOSS ON OUTER EDGES WITH 7/16 INCH AVERAGE REMAINING AND PLATE HAVE SURFACE CORROSION.	2	5		Feet
☑ **107**	Corrosion	CORROSION WITH NO MEASURABLE LOSS OF SECTION ALONG BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 36 INCHES LONG X 2 INCHES HIGH INCHES WEB, AND 36 INCHES LONG X 5 1/2 INCHES WIDE INCHES FLANGE, EXTENDING FROM BOLTED PLATE REPAIR APPROXIMATELY 5 FEET FROM BENT 2	2	3		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT HAS FAILED WITH BARE METAL EXPOSED ON BEAM ENDS.	4	60	60	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	AREAS OF DETERIORATED PAINT SYSTEM THROUGHOUT BEAM	3	150	150	Square Feet

General Comments

BENT 1 LEFT OVERHANG DIAPHRAGM, SPALL 1 FEET LONG X 2 FEET WIDE X UP TO 3 INCH DEEP WITH EXPOSED REBAR WITH NO SECTION LOSS 6 INCH X 6 INCH X 1/2 INCH ANGLE THAT IS 5 FEET LONG BOLTED TO WEB AND FLANGE WITH 3/4 INCH DIAMETER BOLTS SPACED AT 6 INCH ON CENTER. WEB HAS 10 INCH LONG X 1 FEET 9 INCH HIGH X 3/8 INCH THICK PLATE ALSO BOLTED WITH 3/4 INCH DIAMETER BOLTS.

Span 2 Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	50	0	50	0	0	Feet
515	Steel Protective Coating	465	280	0	185	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	AREAS OF SURFACE CORROSION THROUGHOUT BEAM	2	43		Feet
☑ **107**	Corrosion	CORROSION WITH NO MEASURABLE LOSS OF SECTION ALONG BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 42 INCHES LONG X 3 INCHES HIGH INCHES WEB, AND 38 INCHES LONG X 12 5/8 INCHES WIDE INCHES FLANGE, EXTENDING FROM WELDED PLATE REPAIR APPROXIMATELY 3 FEET FROM BENT 2	2	4		Feet
☑ **107**	Corrosion	CORROSION WITH NO MEASURABLE LOSS OF SECTION ALONG WELDED PLATE REPAIRS ON BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 36 INCHES LONG X 20 INCHES HIGH 1/2 INCH THICK INCHES WEB, AND 36 INCHES LONG X 4 INCHES WIDE X 4 INCH HIGH X 1/2 INCH THICK ANGLE INCHES FLANGE AT BENT 2	2	3		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	AREAS OF DETERIORATED PAINT SYSTEM THROUGHOUT BEAM	3	125	125	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT HAS FAILED WITH BARE METAL EXPOSED ON BEAM ENDS.	3	60	60	Square Feet

General Comments

WELDED PLATE REPAIRS ON BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 36 INCHES LONG X 20 INCHES HIGH 1/2 INCH THICK IN WEB, AND 36 INCHES LONG X 4 INCHES WIDE X 4 INCH HIGH X 1/2 INCH THICK ANGLE IN FLANGE AT BENT 2

Span 2 Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	50	0	50	0	0	Feet
515	Steel Protective Coating	465	305	0	125	35	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	AREAS OF SURFACE CORROSION THROUGHOUT BEAM	2	43		Feet
☑ **107**	Corrosion	CORROSION WITH NO MEASURABLE LOSS OF SECTION ALONG BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 55 INCHES LONG X 6 INCHES HIGH INCHES WEB, AND 46 INCHES LONG X 11 5/8 INCHES WIDE INCHES FLANGE AT BENT 1	2	5		Feet
☑ **107**	Corrosion	FRECKLED SURFACE RUST ALONG BEAM ENDS ON WEB AND FLANGES AT BENT 2	2	2		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT HAS FAILED WITH BARE METAL EXPOSED ON BEAM ENDS.	4	35	35	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	AREAS OF DETERIORATED PAINT SYSTEM THROUGHOUT BEAM	3	125	125	Square Feet

General Comments

Span 2 Beam 4

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	50	0	44	0	6	Feet
515	Steel Protective Coating	465	280	0	125	60	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	PAR: CORROSION ALONG BOTH FACES OF WEB, BOTTOM FLANGE AND LEFT STIFFENER UP TO 60 INCHES LONG X 31 1/2 INCHES HIGH DOWN TO 1/2 INCHES RESIDUAL WEB, 66 INCHES LONG X 11 5/8 INCHES WIDE DOWN TO KNIFE'S EDGE RESIDUAL FLANGE WITH 2 INCHES X 3 INCHES LOSS OF SECTION, AND 10 INCHES HIGH X 5 INCHES WIDE DOWN TO KNIFE'S EDGE RESIDUAL STIFFENER WITH 1 INCHES DIAMETER HOLE AT BENT 1; TIMBER BLOCK ADDED ADJACENT TO BEAM	4	6	6	Feet
☑ **107**	Corrosion	AREAS OF SURFACE CORROSION THROUGHOUT BEAM	2	41		Feet
☑ **107**	Corrosion	CORROSION WITH NO MEASURABLE LOSS OF SECTION ALONG WELDED PLATE REPAIRS ON BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 30 INCHES LONG X 14 INCHES HIGH X 1/2 INCH THICK INCHES WEB, AND 30 INCHES LONG X 4 INCHES WIDE X 1/2 INCH THICK INCHES FLANGE AT BENT 2	2	3		Feet
☑ **107**	Corrosion	CORROSION WITH NO MEASURABLE LOSS OF SECTION ALONG WELDED PLATE REPAIRS ON RIGHT FACE OF WEB AND BOTTOM FLANGE UP TO 24 INCHES LONG X 24 INCHES HIGH INCHES WEB, AND 24 INCHES LONG X 4 INCHES WIDE INCHES FLANGE AT BENT 1	2			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT HAS FAILED WITH BARE METAL EXPOSED ON BEAM ENDS.	4	60	60	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	AREAS OF DETERIORATED PAINT SYSTEM THROUGHOUT BEAM	3	125	125	Square Feet

General Comments

TIMBER BLOCK ADJACENT TO BEAM IN BAY 3. BEAM 4 SPAN 2 WITH WELDED PLATE REPAIRS ON RIGHT FACE OF WEB AND BOTTOM FLANGE 24 INCHES LONG X 24 INCHES HIGH X 1/2 INCH THICK IN WEB, AND 24 INCHES LONG X 4 INCHES X 1/2 IMCH THICKWIDE IN FLANGE AT BENT 1 BENT 2 RIGHT OVERHANG DIAPHRAGM, SPALL 1 FEET LONG X 2 FEET WIDE X UP TO 4 INCH DEEP WITH EXPOSED REBAR WITH NO MEASURABLE SECTION LOSS, WELDED PLATE REPAIRS ON BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 30 INCHES LONG X 14 INCHES HIGH X 1/2 INCH THICK IN WEB, AND 30 INCHES LONG X 4 INCHES WIDE X 1/2 INCH THICK

Span 2 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,400	1,219	150	31	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **510**	Crack (Wearing Surface)	AT BENT 1, FULL WIDTH TRANSVERSE CRACK UP TO 1/2 INCHES WIDE	3	31	31	Square Feet
☑ **510**	Crack (Wearing Surface)	UP TO 1/32 INCHES TRANSVERSE AND LONGITUDINAL CRACKS INCHES VARIOUS LOCATIONS	2	150	150	Square Feet

General Comments

Span 2 — Right Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	50	0	50	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **333**	Cracking (RC and Other)	FULL LENGTH ABRASION UP TO 1/16 INCH DEEP WITH EXPOSED BUT SECURE AGGREGATE WITH UP TO 0.035 INCHES TRANSVERSE AND VERTICAL CRACKS SCATTERED THROUGHOUT	2	50		Feet

General Comments

Span 2 — Near Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	SPAN 2 BEAM 1 NEAR BEARING: CORROSION WITH NO MEASURABLE SECTION LOSS	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH BARE METAL EXPOSED.	4	1	1	Square Feet

General Comments

Span 2 — Far Bearing

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	SPAN 2 BEAM 1 FAR BEARING: CORROSION WITH NO MEASURABLE OF SECTION LOSS	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH BARE METAL EXPOSED.	4	1	1	Square Feet

General Comments

Span 2 — Near Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **311**	Corrosion	SPAN 2 BEAM 2 NEAR BEARING: CORROSION WITH NO MEASURABLE OF SECTION LOSS	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH BARE METAL EXPOSED.	4	1	1	Square Feet

General Comments

Span 2 Far Bearing

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	SPAN 2 BEAM 2 FAR BEARING: CORROSION WITH NO MEASURABLE SECTION LOSS	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH BARE METAL EXPOSED.	4	1	1	Square Feet

General Comments

Span 2 Near Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	SPAN 2 BEAM 3 NEAR BEARING: CORROSION WITH NO MEASURABLE OF SECTION LOSS	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH BARE METAL EXPOSED.	4	1	1	Square Feet

General Comments

Span 2 Far Bearing

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	SPAN 2 BEAM 3 FAR BEARING: CORROSION WITH NO MEASURABLE SECTION LOSS	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH BARE METAL EXPOSED.	4	1	1	Square Feet

General Comments

Span 2 — Near Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	SPAN 2 BEAM 4 NEAR BEARING: CORROSION WITH NO MEASURABLE SECTION LOSS	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH BARE METAL EXPOSED.	4	1	1	Square Feet

General Comments

Span 2 — Far Bearing

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	SPAN 2 BEAM 4 FAR BEARING: CORROSION WITH NO MEASURABLE SECTION LOSS	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH BARE METAL EXPOSED.	4	1	1	Square Feet

General Comments

Span 3 — Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,663	462	1,200	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **12**	Delamination/Spall	8 INCHES DIAMETER X 4 INCHES DEEP SPALL IN BOTTOM OF DECK AT CORED HOLE LOCATION IN BAY 1 NEAR MIDSPAN	3	1	1	Square Feet
☑ **12**	Cracking (RC and Other)	UP TO 1/32 INCHES TRANSVERSE AND LONGITUDINAL AND HAIRLINE MAP CRACKS WITH AND WITHOUT EFFLORESCENCE IN BOTTOM OF DECK IN VARIOUS LOCATIONS	2	1,200	1,200	Square Feet

General Comments

Span 3 Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	50	0	46	0	4	Feet
515	Steel Protective Coating	464	299	0	125	40	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	PAR: CORROSION ALONG BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 43 INCHES LONG X 10 INCHES HIGH DOWN TO 1/2 INCHES RESIDUAL WEB, AND 36 INCHES LONG X UP TO 11 INCHES WIDE WITH SECTION LOSS DOWN TO KNIFES EDGE WITH 1/4 INCH AVERAGE REMAING FULL WIDTH OF FLANGE WITH 8 INCH X 2 INCH AREA AT BEARING THAT IS PAPER THIN WITH PERFORATIONS ON RIGHT SIDE AT BENT 3	4	4	4	Feet
☑ **107**	Corrosion	AREAS OF SURFACE CORROSION THROUGHOUT BEAM	2	41		Feet
☑ **107**	Corrosion	AT BENT 2 END, REPAIR HAS BEEN INSTALLED CONSISTING OF 6 INCH X 6 INCH X 1/2 INCH ANGLE THAT IS 5 FEET LONG BOLTED TO WEB AND FLANGE WITH 3/4 INCH DIAMETER BOLTS SPACED AT 6 INCH ON CENTER. WEB HAS 10 INCH LONG X 1 FEET 9 INCH HIGH X 3/8 INCH THICK PLATE ALSO BOLTED WITH 3/4 INCH DIAMETER BOLTS. ANGLE AND PLATE HAVE SURFACE RUST.	2	5		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT HAS FAILED WITH BARE METAL EXPOSED ON BEAM ENDS.	4	40	40	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	AREAS OF DETERIORATED PAINT SYSTEM THROUGHOUT BEAM	3	125	125	Square Feet

General Comments

SPAN 3 BEAM 1 AT BENT 2 END, REPAIR PLATES 6 INCH X 6 INCHX 1/2 INCH ANGLE THAT IS 5 FEET LONG BOLTED TO WEB AND FLANGE WITH 3/4 INCH DIAMETER BOLTS SPACED AT 6 INCH ON CENTER. WEB HAS 10 INCH LONG X 1 FEET 9 INCH HIGH X 3/8 INCH THICK PLATE ALSO BOLTED WITH 3/4 INCH DIAMETER BOLTS. ANGLE AND PLATE HAVE SURFACE RUST.

Span 3 Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	50	0	49	0	1	Feet
515	Steel Protective Coating	464	299	0	125	40	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	PAR: CORROSION ALONG BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 10 INCHES LONG X 4 INCHES HIGH DOWN TO 1/4 INCHES RESIDUAL WEB, AND 12 INCHES LONG X 5 1/2 INCHES WIDE DOWN TO 3/8 INCHES RESIDUAL FLANGE AT BENT 2	4	1	1	Feet
☑ **107**	Corrosion	AREAS OF SURFACE CORROSION THROUGHOUT BEAM	2	48		Feet
☑ **107**	Corrosion	CORROSION WITH 1/16 INCH SECTION LOSS ALONG LEFT EDGE OF BOTTOM FLANGE 9 INCHES LONG X 5 1/2 INCHES WIDE (9/16 INCH REMAINING) AT BENT 3	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT HAS FAILED WITH BARE METAL EXPOSED ON BEAM ENDS.	4	40	40	Square Feet

☑ **515**	Effectiveness (Steel Protective Coatings)	AREAS OF DETERIORATED PAINT SYSTEM THROUGHOUT BEAM	3	125	125	Square Feet

General Comments

BENT 2 DIAPHRAGM IN BAY 1, 5 FEET LONG SECTION HAS BEEN REPLACED WITH 12 INCHES X 3 INCHES STEEL CHANNEL WELDED AT EACH END

Span 3 Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	50	0	50	0	0	Feet
515	Steel Protective Coating	464	339	0	125	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	AREAS OF SURFACE CORROSION THROUGHOUT BEAM	2	50		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	AREAS OF DETERIORATED PAINT SYSTEM THROUGHOUT BEAM	3	125	125	Square Feet

General Comments

Span 3 Beam 4

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	50	0	44	0	6	Feet
515	Steel Protective Coating	464	304	0	125	35	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	PAR--6 FOOT LONG CORROSION IN BOTTOM FLANGE REPAIR PLATE WITH 1/4 INCH AVERAGE REMAINING WITH 1 1/2 INCH X 1/2 INCH HOLE IN LEFT SIDE AT 18 INCHES FROM BEARING, BOTTOM FLANGE BELOW REPAIR PLATE WITH 3/8 INCH AVERAGE REMAINING WITH 24 INCH X UP TO 1 1/2 INCH WIDE HOLE IN LEFT SIDE STARTING AT BEARING. MEASUREMENTS OF WELDED PLATE REPAIRS ON BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 60 INCHES LONG X 21 1/2 INCHES HIGH X 1/2 INCH THICK IN WEB, AND 60 INCHES LONG X 4 INCHES WIDE X 1/2 INCH THICK IN FLANGE AT BENT 2	4	6	6	Feet
☑ **107**	Corrosion	2 FOOT LONG CORROSION IN BOTTOM FLANG AND WEB WITH 1/16 INCH SECTION LOSS IN BOTTOM FLANGE FULL WIDTH WITH 9/16 INCH AVERAGE REMAINING AND UP TO 22 INCHES HIGH IN WEB WITH 1/16 INCH SECTION LOSS WITH 9/16 INCH AVERAGE REMAINING AT BENT 3	2	2		Feet
☑ **107**	Corrosion	AREAS OF SURFACE CORROSION THROUGHOUT BEAM	2	42		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT HAS FAILED WITH BARE METAL EXPOSED ON BEAM ENDS.	4	35	35	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	AREAS OF DETERIORATED PAINT SYSTEM THROUGHOUT BEAM	3	125	125	Square Feet

General Comments

WELDED PLATE REPAIRS ON BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 60 INCHES LONG X 21 1/2 INCHES HIGH X 1/2 INCH THICK IN WEB, AND 60 INCHES LONG X 4 INCHES WIDE X 1/2 INCH THICK IN FLANGE AT BENT 2

Span 3 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,400	1,208	161	31	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 510	Crack (Wearing Surface)	UP TO 1/2 INCHES TRANSVERSE CRACK ALONG BENT 2 JOINT	3	31	31	Square Feet
☑ 510	Crack (Wearing Surface)	UP TO 1/32 INCHES TRANSVERSE AND LONGITUDINAL CRACKS IN VARIOUS LOCATIONS	2	160	160	Square Feet
☑ 510	Patched Area/Pothole (Wearing Surface)	8 INCHES DIAMETER PATCHED CORED HOLE IN OUTSIDE LANE NEAR MIDSPAN	2	1		Square Feet

General Comments

Span 3 — Right Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	50	0	50	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 333	Cracking (RC and Other)	FULL LENGTH ABRASION UP TO 1/16 IN DEEP WITH EXPOSED BUT SECURE AGGREGATE WITH UP TO 0.035 INCHES TRANSVERSE AND VERTICAL CRACKS SCATTERED THROUGHOUT	2	50		Feet

General Comments

Span 3 — Near Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 311	Corrosion	SPAN 3 BEAM 1 NEAR BEARING: CORROSION WITH ONSET OF SECTION LOSS	3	1	1	Each
☑ 515	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH BARE METAL EXPOSED.	4	1	1	Square Feet

General Comments

Span 3 — Far Bearing

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 313	Corrosion	SPAN 3 BEAM 1 FAR BEARING: CORROSION WITH ONSET OF SECTION LOSS	3	1	1	Each

☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH BARE METAL EXPOSED.	4	1	1	Square Feet

General Comments

Span 3 — Near Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	SPAN 3 BEAM 2 NEAR BEARING: CORROSION WITH ONSET OF SECTION LOSS	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH BARE METAL EXPOSED.	4	1	1	Square Feet

General Comments

Span 3 — Far Bearing

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	SPAN 3 BEAM 2 FAR BEARING: CORROSION WITH ONSET OF SECTION LOSS	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH BARE METAL EXPOSED.	4	1	1	Square Feet

General Comments

Span 3 — Near Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	SPAN 3 BEAM 3 NEAR BEARING: CORROSION WITH ONSET OF SECTION LOSS	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH BARE METAL EXPOSED.	4	1	1	Square Feet

General Comments

Span 3 — Far Bearing

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 313	Corrosion	SPAN 3 BEAM 3 FAR BEARING: CORROSION WITH ONSET OF SECTION LOSS	3	1	1	Each
☑ 515	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH BARE METAL EXPOSED.	4	1	1	Square Feet

General Comments

Span 3 — Near Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 311	Corrosion	SPAN 3 BEAM 4 NEAR BEARING: CORROSION WITH ONSET OF SECTION LOSS	3	1	1	Each
☑ 515	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH BARE METAL EXPOSED.	4	1	1	Square Feet

General Comments

Span 3 — Far Bearing

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 313	Corrosion	SPAN 3 BEAM 4 FAR BEARING: CORROSION WITH ONSET OF SECTION LOSS	3	1	1	Each
☑ 515	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH BARE METAL EXPOSED.	4	1	1	Square Feet

General Comments

Span 4 — Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,663	263	1,400	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **12**	Cracking (RC and Other)	UP TO 1/32 INCHES TRANSVERSE AND LONGITUDINAL AND HAIRLINE MAP CRACKS WITH AND WITHOUT EFFLORESCENCE IN BOTTOM OF DECK IN VARIOUS LOCATIONS	2	900	900	Square Feet
☑ **12**	Efflorescence/Rust Staining	EFFLORESCENCE AND SCALING ON BOTTOM FACE LEFT OVERHANG.	2	150		Square Feet
☑ **12**	Efflorescence/Rust Staining	EFFLORESCENCE WITH SURFACE SCALING ON BOTTOM FACE OF RIGHT OVERHANG.	2	150		Square Feet
☑ **12**	Efflorescence/Rust Staining	SCALING WITH EXPOSED AGGREGATE AND EFFLORESCENCE IN BOTTOM OF DECK IN VARIOUS LOCATIONS	2	200		Square Feet

General Comments

Span 4 Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	50	0	43	0	7	Feet
515	Steel Protective Coating	465	305	0	125	35	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	PAR: CORROSION ALONG BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 72 INCHES LONG X 31 1/2 INCHES HIGH DOWN TO 7/16 INCHES RESIDUAL WEB, AND 82 INCHES LONG X 11 5/8 INCHES WIDE DOWN TO 3/8 INCHES RESIDUAL FLANGE AT BENT 3	4	7	7	Feet
☑ **107**	Corrosion	AREAS OF SURFACE CORROSION THROUGHOUT BEAM	2	43		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT HAS FAILED WITH BARE METAL EXPOSED ON BEAM AT BENT 3	4	35	35	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	AREAS OF DETERIORATED PAINT SYSTEM THROUGHOUT BEAM	3	125	125	Square Feet

General Comments

BENT 3 LEFT OVERHANG DIAPHRAGM, SPALL 1 FOOT LONG X 2 FEET WIDE X UP TO 5 INCH DEEP WITH EXPOSED REBAR WITH NO SECTION LOSS

Span 4 Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	50	0	50	0	0	Feet
515	Steel Protective Coating	465	310	0	125	30	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	AREAS OF SURFACE CORROSION THROUGHOUT BEAM	2	47		Feet
☑ **107**	Corrosion	CORROSION WITH 1/16 INCH SECTION LOSS ALONG LEFT EDGE OF BOTTOM FLANGE 20 INCHES LONG X 11 5/8 INCHES WIDE (9/16 INCH REMAINING) AND CORROSION WITH NO MEASURABLE LOSS OF SECTION ALONG BOTH FACES OF WEB UP TO 27 INCHES LONG X 5 INCHES HIGH IN WEB AT BENT 3	2	3		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT HAS FAILED WITH BARE METAL EXPOSED ON BEAM END AT BENT 3	4	30	30	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	AREAS OF SURFACE CORROSION THROUGHOUT BEAM	3	125	125	Square Feet

General Comments

Span 4 Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	50	0	50	0	0	Feet
515	Steel Protective Coating	465	340	0	125	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	AREAS OF SURFACE CORROSION THROUGHOUT BEAM	2	49		Feet
☑ **107**	Corrosion	CORROSION WITH LESS THAN 1/16 INCH SECTION LOSS ALONG LEFT EDGE OF BOTTOM FLANGE 12 INCHES LONG X 5 1/2 INCHES WIDE (5/8 INCH REMAINING) AT BENT 3	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	AREAS OF DETERIORATED PAINT SYSTEM THROUGHOUT BEAM	3	125	125	Square Feet

General Comments

Span 4 Beam 4

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	50	0	50	0	0	Feet
515	Steel Protective Coating	465	310	0	125	30	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	AREAS OF SURFACE CORROSION THROUGHOUT BEAM	2	46		Feet
☑ **107**	Corrosion	CORROSION ALONG BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 36 INCHES LONG X 13 INCHES HIGH WITH NO MEASURABLE LOSS OF SECTION IN WEB, AND 36 INCHES LONG X 5 1/2 INCHES WIDE DOWN TO 7/16 INCHES RESIDUAL WITH 1/2 INCH AVERAGE REMAINING IN FLANGE AT BENT 3	2	3		Feet
☑ **107**	Corrosion	CORROSION WITH 1/16 INCH LOSS OF SECTION ALONG RIGHT EDGE OF BOTTOM FLANGE WITH 9/16 INCH REMAINING 6 INCHES LONG X 2 INCHES WIDE AT END BENT 2	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT HAS FAILED WITH BARE METAL EXPOSED ON BEAM ENDS.	4	30	30	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	AREAS OF DETERIORATED PAINT SYSTEM THROUGHOUT BEAM	3	125	125	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	1,400	1,264	105	31	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **510**	Crack (Wearing Surface)	UP TO 1/2 INCHES TRANSVERSE CRACK ALONG BENT 3 JOINT	3	31	31	Square Feet
☑ **510**	Crack (Wearing Surface)	UP TO 1/32 INCHES TRANSVERSE AND LONGITUDINAL CRACKS IN VARIOUS LOCATIONS	2	100	100	Square Feet
☑ **510**	Crack (Wearing Surface)	UP TO 1/32 INCHES TRANSVERSE CRACK ALONG END BENT 2 FILL FACE IN INSIDE LANE	2	5	5	Square Feet

General Comments

Span 4 — Right Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	50	0	50	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **333**	Delamination/Spall	END BENT 2 WHEEL GUARD EXTENSION, SPALL 2 FEET LONG X UP TO 12 INCH WIDE X 2 INCH DEEP	3		2	Feet
☑ **333**	Cracking (RC and Other)	FULL LENGTH ABRASION UP TO 1/16 IN DEEP WITH EXPOSED BUT SECURE AGGREGATE WITH UP TO 0.035 INCHES TRANSVERSE AND VERTICAL CRACKS SCATTERED THROUGHOUT	2	50		Feet

General Comments

Span 4 — Near Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	SPAN 4 BEAM 1 NEAR BEARING: CORROSION WITH ONSET OF SECTION LOSS	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH BARE METAL EXPOSED.	4	1	1	Square Feet

General Comments

Span 4 — Far Bearing

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	SPAN 4 BEAM 1 FAR BEARING FRECKLED SURFACE RUST ON PLATE SURFACES.	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	RUST BLEED COMING THRU PAINT.	3	1	1	Square Feet

General Comments

Span 4 — Near Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	SPAN 4 BEAM 2 NEAR BEARING: CORROSION WITH ONSET OF SECTION LOSS	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH BARE METAL EXPOSED.	4	1	1	Square Feet

General Comments

Span 4 — Far Bearing

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	AREAS OF SURFACE CORROSION THROUGHOUT BEAM 2 BEARING	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	AREAS OF DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 2 BEARING	2	1	1	Square Feet

General Comments

Span 4 — Near Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	SPAN 4 BEAM 3 NEAR BEARING: CORROSION WITH ONSET OF SECTION LOSS	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH BARE METAL EXPOSED.	4	1	1	Square Feet

General Comments

Span 4 — Far Bearing

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	AREAS OF SURFACE CORROSION THROUGHOUT BEAM 3 BEARING	2	1		Each

☑ **515**	Effectiveness (Steel Protective Coatings)	AREAS OF DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 3 BEARING	2	1	1	Square Feet	

General Comments

Span 4 — Near Bearing

Movable Bearing

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

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**311**	Corrosion	SPAN 4 BEAM 4 NEAR BEARING: CORROSION WITH ONSET OF SECTION LOSS	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	PAINT IS FAILING WITH BARE METAL EXPOSED.	4	1	1	Square Feet

General Comments

Span 4 — Far Bearing

Fixed Bearing

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

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**313**	Corrosion	SPAN 4 BEAM 4 FAR BEARING CORROSION WITH ONSET OF SECTION LOSS	2	1		Each
☑	**515**	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS, NO PROTECTION OF UNDERLYING METAL	4	1	1	Square Feet

General Comments

End Bent 1 — Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	42	21	0	21	0	Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**234**	Cracking (RC and Other)	11 FEET X 18 INCHES X 8 INCHES AREA OF DELAMINATION WITH UP TO 3/8 INCHES HORIZONTAL CRACKS WITH AND WITHOUT EFFLORESCENCE IN TOP AND FACE OF CAP BENEATH BAY 1	3	11	11	Feet
☑	**234**	Cracking (RC and Other)	UP TO 3/8 INCHES HORIZONTAL CRACK WITH AND WITHOUT EFFLORESCENCE AND 86 INCHES X 14 INCHES X 8 INCHES AREA OF DELAMINATION IN TOP AND FACE OF CAP BENEATH BAY 3 AND BEAM 4	3	10	10	Feet

General Comments

Bent 1 Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	31	0	0	31	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 234	Cracking (RC and Other)	31 FEET OF UP TO 3/8 INCHES LONGITUDINAL AND HORIZONTAL CRACKS WITH AND WITHOUT EFFLORESCENCE AND AREAS OF DELAMINATION IN TOP, BOTTOM AND SPAN 1 FACE OF CAP	3	26	31	Feet
☑ 234	Cracking (RC and Other)	31 FEET OF UP TO 3/8 INCHES LONGITUDINAL AND HORIZONTAL CRACKS WITH AND WITHOUT EFFLORESCENCE AND AREAS OF DELAMINATION IN TOP, BOTTOM AND SPAN 2 FACE OF CAP	3		31	Feet
☑ 234	Cracking (RC and Other)	HORIZONTAL CRACK 3/8 INCHES WIDE BETWEEN BEAMS 1 AND 2 ON SOUTH FACE.	3		7	Feet
☑ 234	Delamination/Spall	DELAMINATED AREA 30 INCHES WIDE X 14 INCHES HIGH ON SOUTH FACE NEAR RIGHT END.	3		3	Feet
☑ 234	Delamination/Spall	PAR: 50 INCHES X 4 INCHES X 5 INCHES SPALL WITH EXPOSED REBAR WITH MINOR SECTION LOSS IN BOTTOM AND SPAN 1 FACE OF CAP AT LEFT END	3	5	5	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	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 205	Abrasion/Wear (PSC/RC)	UP TO 29 INCHES HIGH SCALING WITH EXPOSED AGGREGATE THROUGHOUT COLUMN AT WATER SURFACE	2	1		Each
☑ 205	Delamination/Spall	(2) AREAS OF DELAMINATION UP TO 24 INCHES X 5 INCHES X 5 INCHES WITH 1/32 INCHES VERTICAL CRACKS IN SOUTHWEST AND NORTHWEST CORNERS OF COLUMN, APPROXIMATELY 3 FEET FROM BOTTOM OF CAP	2		4	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

☑ **205**	Abrasion/Wear (PSC/RC)	UP TO 29 INCHES HIGH SCALING WITH EXPOSED AGGREGATE THROUGHOUT COLUMN AT WATER SURFACE	2	1		Each

General Comments

End Bent 1 — Abutment

Reinforced Concrete Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinforced Concrete Abutment	40	38	0	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **215**	Cracking (RC and Other)	UP TO 6 INCH X 2 INCH X 1/4 INCH DEEP SPALL IN FACE OF CURTAIN WALL RIGHT EDGE OF BOTTOM FLANGE OF BEAMS 1 AND 3	3	1	2	Feet
☑ **215**	Delamination/Spall	BELOW BAY 1 ADJACENT TO BEAM 1, 1 FOOT LONG X 4 INCHES HIGH X UP TO 1/4 INCHES DEEP SPALL	3	1	1	Feet

General Comments

Bent 2 — Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	31	0	0	31	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Cracking (RC and Other)	20 FEET OF UP TO 3/8 INCHES LONGITUDINAL AND HORIZONTAL CRACKS WITH AND WITHOUT EFFLORESCENCE AND AREAS OF DELAMINATION IN TOP, BOTTOM AND SPAN 2 FACE OF CAP	3		20	Feet
☑ **234**	Cracking (RC and Other)	MAP CRACKING UP TO 1/8 INCHES WIDE ON LEFT END.	3		3	Feet
☑ **234**	Cracking (RC and Other)	UP TO 3/8 INCHES LONGITUDINAL AND HORIZONTAL CRACKS WITH AND WITHOUT EFFLORESCENCE AND AREAS OF DELAMINATION IN TOP, BOTTOM AND SPAN 3 FACE OF CAP	3	25	25	Feet
☑ **234**	Delamination/Spall	LEFT END OF CAP, DELAMINATED AREA FULL HEIGHT AND FULL WIDTH WITH CRACKING UP 1/4 IN WITH 8 IN DIAMETER X 2 IN DEEP SPALL AT SOUTHWEST CORNER	3	2	2	Feet
☑ **234**	Patched Area	PAR: 30 INCHES X 30 INCHES X 12 INCHES DEEP SPALL WITH EXPOSED REBAR WITH MINOR SECTION LOSS AND FAILED REPAIR WITH 4 FEET SECTION OF FORMWORK IN RIGHT END OF CAP	3	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	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Cracking (RC and Other)	(2) AREAS OF DELAMINATION UP TO 36 INCHES X 7 INCHES X 5 INCHES WITH 1/16 INCHES VERTICAL CRACKS IN NORTHWEST AND NORTHEAST CORNERS OF COLUMN, APPROXIMATELY 3 FEET FROM BOTTOM OF CAP	3	1	5	Each
☑ **205**	Abrasion/Wear (PSC/RC)	UP TO 26 INCHES HIGH SCALING WITH EXPOSED AGGREGATE THROUGHOUT COLUMN AT WATER SURFACE	2			Each

General Comments

Bent 2 Pile 2

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Cracking (RC and Other)	40 INCHES X 9 INCHES X 6 INCHES AREA OF DELAMINATION WITH UP TO 3/8 INCHES VERTICAL CRACKS IN SOUTHEAST CORNER OF COLUMN, APPROXIMATELY 3 FEET FROM BOTTOM OF CAP	3	1	4	Each
☑ **205**	Abrasion/Wear (PSC/RC)	UP TO 26 INCHES HIGH SCALING WITH EXPOSED AGGREGATE THROUGHOUT COLUMN AT WATER SURFACE	2			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	42	25	0	17	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Cracking (RC and Other)	13 FEET X 15 INCHES X 8 INCHES AREA OF DELAMINATION WITH UP TO 1/16 INCHES LONGITUDINAL AND HORIZONTAL CRACKS WITH AND WITHOUT EFFLORESCENCE IN TOP AND FACE OF CAP FROM LEFT OF BEAM 1 TO BEAM 2	3	13	13	Feet
☑ **234**	Cracking (RC and Other)	46 INCHES X 8 INCHES X 9 INCHES AREA OF DELAMINATION WITH UP TO 1/16 INCHES LONGITUDINAL AND HORIZONTAL CRACKS WITH AND WITHOUT EFFLORESCENCE IN TOP AND FACE OF CAP BENEATH BAY 3	3	4	4	Feet

General Comments

End Bent 2 — Abutment

Reinforced Concrete Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinforced Concrete Abutment	40	37	0	3	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **215**	Cracking (RC and Other)	UP TO 1/16 INCHES DIAGONAL CRACKS IN FACE OF CURTAIN WALL EXTENDING FROM LEFT EDGE OF BOTTOM FLANGE OF BEAMS 1, 3 AND 4	3	3	3	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	31	0	0	31	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Cracking (RC and Other)	10 FEET X 6 INCHES X 13 INCHES AREA OF DELAMINATION WITH UP TO 1/4 INCHES LONGITUDINAL AND HORIZONTAL CRACKS AND 7 INCHES X 5 INCHES X 1 INCHES DEEP SPALL IN BOTTOM AND SPAN 3 FACE OF CAP TO LEFT OF COLUMN 2	3		12	Feet
☑ **234**	Cracking (RC and Other)	6 FEET X 6 INCHES X 6 INCHES AREA OF DELAMINATION WITH UP TO 1/16 INCHES LONGITUDINAL AND HORIZONTAL CRACKS IN BOTTOM AND SPAN 3 FACE OF CAP TO RIGHT OF COLUMN 1	3		6	Feet
☑ **234**	Cracking (RC and Other)	7 FEET X 6 INCHES X 22 INCHES AREA OF DELAMINATION WITH UP TO 1/16 INCHES LONGITUDINAL AND HORIZONTAL CRACKS WITH AND WITHOUT EFFLORESCENCE IN TOP AND SPAN 3 FACE OF CAP BENEATH BAY 3	3		7	Feet
☑ **234**	Cracking (RC and Other)	MAP CRACKING UP TO 1/16 INCHES WIDE WITH EFFLORESCENCE ON RIGHT END.	3		1	Feet
☑ **234**	Delamination/Spall	32 INCHES X 30 INCHES X 30 INCHES AREA OF DELAMINATION WITH UP TO 1/4 INCHES HORIZONTAL AND MAP CRACKS AND 10 INCHES X 9 INCHES X 6 INCHES DEEP SPALL WITH EXPOSED REBAR NO LOSS THROUGHOUT RIGHT END OF CAP	3		3	Feet
☑ **234**	Delamination/Spall	60 INCHES X 6 INCHES X 4 INCHES SPALL WITH EXPOSED REBAR NO LOSS IN BOTTOM AND SPAN 4 FACE OF CAP AT LEFT END	3	5	5	Feet
☑ **234**	Delamination/Spall	PAR: 26 INCHES X 2 INCHES X 11 INCHES SPALL WITH EXPOSED REBAR WITH MINOR SECTION LOSS AND 45 INCHES X 9 INCHES X 6 INCHES AREA OF DELAMINATION WITH UP TO 1/4 INCHES LONGITUDINAL AND HORIZONTAL CRACKS IN BOTTOM AND SPAN 4 FACE OF CAP AT RIGHT END	3	6	6	Feet

☑ **234**	Delamination/Spall	PAR: 78 INCHES X 30 INCHES X 9 INCHES AREA OF DELAMINATION WITH UP TO 1/16 INCHES VERTICAL AND HORIZONTAL CRACKS AND 48 INCHES X 6 INCHES X 6 INCHES SPALL WITH EXPOSED REBAR WITH MINOR SECTION LOSS IN TOP, BOTTOM, LEFT END AND SPAN 3 FACE OF CAP	3	3	7	Feet
☑ **234**	Delamination/Spall	PAR: 96 INCHES X 6 INCHES X 9 INCHES SPALL WITH EXPOSED REBAR WITH MINOR SECTION LOSS AND 125 INCHES X 6 INCHES X 12 INCHES AREA OF DELAMINATION WITH UP TO 1/4 INCHES LONGITUDINAL AND HORIZONTAL CRACKS IN BOTTOM AND SPAN 4 FACE OF CAP BETWEEN COLUMNS	3	17	17	Feet
☑ **234**	Delamination/Spall	36 INCHES X 6 INCHES X 12 INCHES AREA OF DELAMINATION WITH UP TO 1/32 INCHES LONGITUDINAL AND HORIZONTAL CRACKS IN TOP AND SPAN 4 FACE OF CAP BENEATH BAY 3	2		3	Feet

General Comments

Bent 3 Pile 1

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Cracking (RC and Other)	SOUTH FACE AT BOTH CORNERS STARTING AT BOTTOM OF COLUMN, VERTICAL CRACKS UP TO 1/8 IN WIDE	3	1	6	Each
☑ **205**	Delamination/Spall	WEST FACE STARTING AT BOTTOM OF PILE, SPALL 2 FEET HIGH X 1 FEET WIDE X UP TO 1/8 INCH DEEP	3		2	Each

General Comments

Bent 3 Pile 2

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Cracking (RC and Other)	(2) AREAS OF DELAMINATION UP TO 33 INCHES X 9 INCHES X 9 INCHES WITH UP TO 1/16 INCHES VERTICAL CRACKS IN SOUTHWEST AND NORTHWEST CORNERS, APPROXIMATELY 3 FEET FROM BOTTOM OF CAP	3	1	6	Each

General Comments

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1663
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	50
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	50
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	50
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	50
Span 1	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	50
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1400
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1663
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	50
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	50
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	50
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	50
Span 2	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	50
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1400
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1663
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	50
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	50
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	50
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	50
Span 3	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	50
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1400
Span 3	Near Bearing	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing	Movable Bearing	Movable Bearing	1

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1663
Span 4	Beam 1	Plate Girder	Steel Open Girder/Beam	50
Span 4	Beam 2	Plate Girder	Steel Open Girder/Beam	50
Span 4	Beam 3	Plate Girder	Steel Open Girder/Beam	50
Span 4	Beam 4	Plate Girder	Steel Open Girder/Beam	50
Span 4	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	50
Span 4	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1400
Span 4	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing	Movable Bearing	Movable Bearing	1
Span 4	Near Bearing	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing	Movable Bearing	Movable Bearing	1
Span 4	Near Bearing	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing	Fixed Bearing	Fixed Bearing	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	31
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	42
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	40
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	31
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	42
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	40
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	31
Bent 3	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 430158 **Inspection Date:** 05/09/2023

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	**6**
Item 59: Superstructure	0 - 9 , N	**4**
Item 60: Substructure	0 - 9 , N	**5**
Item 61: Channel and Channel Protection	0 - 9 , N	**7**
Item 62: Culvert	0 - 9 , N	**N**
Item 71: Waterway Adequacy	0 - 9 , N	**7**
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	**G**	**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	**G**	**0**	**3352**
Scour	G, F, P, or C	**G**		
Wingwall	G, F, P, or C		**0**	**3350**
Field Scour Evaluation		**O**		
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		**A**		

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	**10**
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	**Y**
Bucket Truck Used	YES/NO	**N**
Boat Used	YES/NO	**N**
Other Equipment Used	YES/NO	**N**
Portion of Structure in > 3' of water	YES/NO	**N**

National Bridge and NC SMU Inspection Item Details

Structure Number: 430158 **Inspection Date:** 05/09/2023

Item	Superstructure - Item 59	**Grade**	4	**Maint Code**	**Qty.** 0
Details	GRADED A 4 DUE TO SECTION LOSS AND BUCKLING IN BEAM(S)				

Item	General Comments and Misc Items	**Grade**		**Maint Code**	**Qty.** 0
Details	NORTH APPROACH ROADWAY WITH TWO 8 INCH DIAMETER CORES WITH ASPHALT MISSING UP TO 6 INCHES DEEP, SOUTH APPROACH SIMILAR NORTHEAST GUARDRAIL IMPACT DAMAGE 50 FOOT LONG WITH TEARS IN GUARDRAIL STARTING AT ABUTMENT 2				

Span 1 Wearing Surface: UP TO 1/32 INCHES DIAGONAL CRACKS ALONG END BENT 1 FILL FACE IN INSIDE LANE

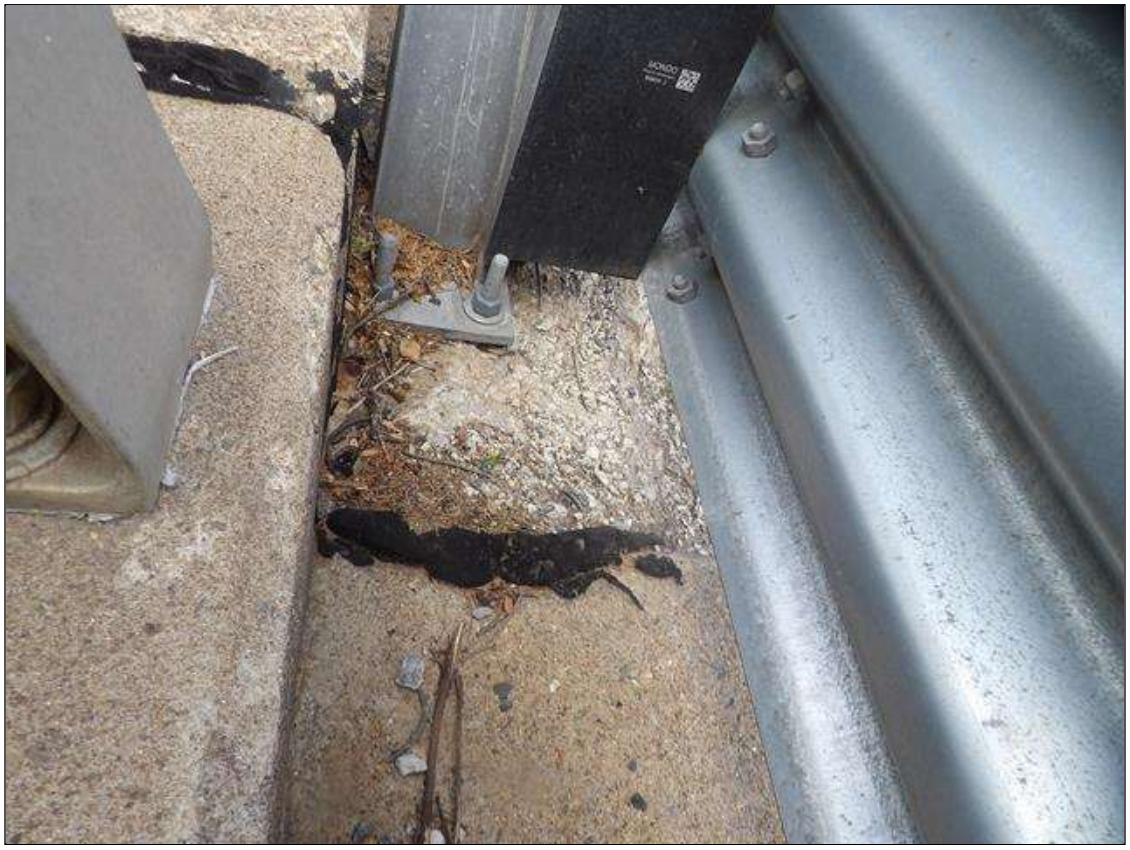
Span 1 Wearing Surface: 8 INCHES DIAMETER PATCHED CORED HOLE IN OUTSIDE LANE, APPROXIMATELY 15 FEET FROM BENT 1

Span 1 Left Bridge Rail: 10 FEET SECTION OF IMPACT DAMAGE WITH MISSING RAIL AND RAIL POST EXTENDING FROM BENT 1; CONDITION MITIGATED WITH ADDITION OF THRIE BEAM METAL RAIL

Span 2 Left Bridge Rail: 15 FEET SECTION OF IMPACT DAMAGE WITH SEPARATED, CRACKED AND MISSING RAIL AND RAIL POSTS EXTENDING FROM BENT 1; CONDITION MITIGATED WITH ADDITION OF THRIE BEAM METAL RAIL

Span 3 Left Bridge Rail: 30 FEET SECTION OF IMPACT DAMAGE WITH SEPARATED, CRACKED AND MISSING RAIL AND RAIL POSTS EXTENDING FROM BENT 3; CONDITION MITIGATED WITH ADDITION OF THRIE BEAM METAL RAIL

Span 4 Left Bridge Rail: 25 FEET SECTION OF IMPACT DAMAGE WITH MISSING RAIL AND RAIL POSTS EXTENDING FROM BENT 3; CONDITION MITIGATED WITH ADDITION OF THRIE BEAM METAL RAIL



Span 4 Left Bridge Rail: SPALL WITH EXPOSED REBAR 8 INCHES WIDE X 18 INCHES LONG X 3 INCHES DEEP AT BENT 3

Span 4 Left Bridge Rail: END BENT 2 WHEEL GUARD EXTENSION, SPALL 3 FEET LONG X UP TO 12 INCHES WIDE X 2 INCHRS DEEP, RIGHT SIDE SIMILAR

NORTH APPROACH ROADWAY WITH TWO 8 INCH DIAMETER CORES WITH ASPHALT MISSING UP TO 6 INCHES DEEP, SOUTH APPROACH SIMILAR

NORTHEAST GUARDRAIL IMPACT DAMAGE 50 FOOT LONG WITH TEARS IN GUARDRAIL STARTING AT ABUTMENT 2

Span 1 Deck: UP TO 1/32 INCHES TRANSVERSE AND LONGITUDINAL AND HAIRLINE MAP CRACKS WITH AND WITHOUT EFFLORESCENCE IN BOTTOM OF DECK IN VARIOUS LOCATIONS

TYPICAL UP UP TO 1/32 INCHES TRANSVERSE AND VERTICAL CRACKS SCATTERED THROUGHOUT

Span 1 Deck: ALONG BOTH OVERHANG DECK SOFFITS, HAIRLINE MAP CRACKING WITH ABRASION UP TO 1/16 INCH DEEP WITH EXPOSED BUT SECURE AGGREGATE AND EFFLORESCENCE AND RUST STAINING

End Bent 1 Cap 1: 11 FEET X 18 INCHES X 8 INCHES AREA OF DELAMINATION WITH UP TO 3/8 INCHES HORIZONTAL CRACKS WITH AND WITHOUT EFFLORESCENCE IN TOP AND FACE OF CAP BENEATH BAY 1

End Bent 1 Cap 1: UP TO 3/8 INCHES HORIZONTAL CRACK WITH AND WITHOUT EFFLORESCENCE AND 86 INCHES X 14 INCHES X 8 INCHES AREA OF DELAMINATION IN TOP AND FACE OF CAP BENEATH BAY 3 AND BEAM 4

End Bent 1 Abutment: BELOW BAY 1 ADJACENT TO BEAM 1, 1 FOOT LONG X 4 INCHES HIGH X UP TO 1/4 INCHES DEEP SPALL

End Bent 1 Abutment: UP TO 6 INCH X 2 INCH X 1/4 INCH DEEP SPALL IN FACE OF CURTAIN WALL RIGHT EDGE OF BOTTOM FLANGE OF BEAMS 1 AND 3

Span 1 Beam 1: PAR: CORROSION ALONG BOTTOM FLANGE AND WEB. FLANGE REDUCED TO 3/16 INCHES WITH 1/2 INCH AVERAGE REMAINING FOR 36 INCHES LONG X 11 5/8 INCHES WIDE BEGINNING AT FAR END. WEB ALSO REDUCED TO 3/8 INCHES WITH 7/16 INCH AVERAGE REMAINING THE FULL HEIGHT X 11 INCHES LONG BEGINNING AT THE FAR END.

Span 2 Beam 1: PAR: CORROSION ALONG BOTH FACES OF WEB AND BOTTOM FLANGE. WEB: UP TO 8 FEET LONG X FULL HEIGHT DOWN TO 1/8 INCHES RESIDUAL WEB WITH 4 INCHES WIDE X 7 INCHES HIGH X 1/2 INCHES DEEP BUCKLING AT THE BASE OF THE WEB. 8 FEET LONG X FULL WIDTH DOWN TO 1/16 INCHES RESIDUAL FLANGE AT BENT 1.

Bent 1 Cap 1: PAR: 50 INCHES X 4 INCHES X 5 INCHES SPALL WITH EXPOSED REBAR WITH MINOR SECTION LOSS IN BOTTOM AND SPAN 1 FACE OF CAP AT LEFT END

Bent 1 Cap 1: DELAMINATED AREA 30 INCHES WIDE X 14 INCHES HIGH ON SOUTH FACE NEAR RIGHT END.

Bent 1 Cap 1: 31 FEET OF UP TO 3/8 INCHES LONGITUDINAL AND HORIZONTAL CRACKS WITH AND WITHOUT EFFLORESCENCE AND AREAS OF DELAMINATION IN TOP, BOTTOM AND SPAN 1 FACE OF CAP, SIMILAR ON SPAN 2 FACE AND PIER 2

Bent 1 Pile 1: (2) AREAS OF DELAMINATION UP TO 24 INCHES X 5 INCHES X 5 INCHES WITH 1/32 INCHES VERTICAL CRACKS IN SOUTHWEST AND NORTHWEST CORNERS OF COLUMN, APPROXIMATELY 3 FEET FROM BOTTOM OF CAP

Bent 2 Cap 1: LEFT END OF CAP, DELAMINATED AREA FULL HEIGHT AND FULL WIDTH WITH CRACKING UP 1/4 INCH WITH 8 INCH DIAMETER X 2 INCHDEEP SPALL AT SOUTHWEST CORNER

Bent 2 Pile 2: 40 INCHES X 9 INCHES X 6 INCHES AREA OF DELAMINATION WITH UP TO 3/8 INCHES VERTICAL CRACKS IN SOUTHEAST CORNER OF COLUMN, APPROXIMATELY 3 FEET FROM BOTTOM OF CAP

TYPICAL AREAS OF SURFACE CORROSION AND CORROSION WITH NO MEASURABLE SECTION LOSS THROUGHOUT BEAM, BEAM 1 SPAN 1 SHOWN

Span 1 Beam 4: PAR: CORROSION ALONG BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 60 INCHES LONG X 31 1/2 INCHES HIGH DOWN TO 7/16 INCHES RESIDUAL WEB, AND 60 INCHES LONG X 11 5/8 INCHES WIDE DOWN TO 5/16 INCHES RESIDUAL FLANGE AT BENT 1

Span 2 Beam 4: PAR: CORROSION ALONG BOTH FACES OF WEB, BOTTOM FLANGE AND LEFT STIFFENER UP TO 60 INCHES LONG X 31 1/2 INCHES HIGH DOWN TO 1/2 INCHES RESIDUAL WEB, 66 INCHES LONG X 11 5/8 INCHES WIDE DOWN TO KNIFE'S EDGE RESIDUAL FLANGE WITH 2 INCHES X 3 INCHES LOSS OF SECTION, AND 10 INCHES HIGH X 5 INCHES WIDE DOWN TO KNIFE'S EDGE RESIDUAL STIFFENER WITH 1 INCHES DIAMETER HOLE AT BENT 1; TIMBER BLOCK ADDED ADJACENT TO BEAM

Span 2 Beam 4: PAR: CORROSION ALONG BOTH FACES OF WEB, BOTTOM FLANGE AND LEFT STIFFENER UP TO 60 INCHES LONG X 31 1/2 INCHES HIGH DOWN TO 1/2 INCHES RESIDUAL WEB, 66 INCHES LONG X 11 5/8 INCHES WIDE DOWN TO KNIFE'S EDGE RESIDUAL FLANGE WITH 2 INCHES X 3 INCHES LOSS OF SECTION, AND 10 INCHES HIGH X 5 INCHES WIDE DOWN TO KNIFE'S EDGE RESIDUAL STIFFENER WITH 1 INCHES DIAMETER HOLE AT BENT 1; TIMBER BLOCK ADDED ADJACENT TO BEAM

BEAM 4 SPAN 2 WITH WELDED PLATE REPAIRS ON RIGHT FACE OF WEB AND BOTTOM FLANGE 24 INCHES LONG X 24 INCHES HIGH X 1/2 INCH THICK IN WEB, AND 24 INCHES LONG X 4 INCHES X 1/2 INCH WIDE IN FLANGE AT BENT 1

End Bent 2 Abutment: UP TO 1/16 INCHES DIAGONAL CRACKS IN FACE OF CURTAIN WALL EXTENDING FROM LEFT EDGE OF BOTTOM FLANGE OF BEAMS 1, 3 AND 4

Bent 3 Cap 1: PAR: 96 INCHES X 6 INCHES X 9 INCHES SPALL WITH EXPOSED REBAR WITH MINOR SECTION LOSS AND 125 INCHES X 6 INCHES X 12 INCHES AREA OF DELAMINATION WITH UP TO 1/4 INCHES LONGITUDINAL AND HORIZONTAL CRACKS IN BOTTOM AND SPAN 4 FACE OF CAP BETWEEN COLUMNS

Bent 3 Cap 1: 60 INCHES X 6 INCHES X 4 INCHES SPALL WITH EXPOSED REBAR NO LOSS IN BOTTOM AND SPAN 4 FACE OF CAP AT LEFT END

Bent 3 Cap 1: 32 INCHES X 30 INCHES X 30 INCHES AREA OF DELAMINATION WITH UP TO 1/4 INCHES HORIZONTAL AND MAP CRACKS AND 10 INCHES X 9 INCHES X 6 INCHES DEEP SPALL WITH EXPOSED REBAR NO LOSS THROUGHOUT RIGHT END OF CAP

Bent 3 Cap 1: PAR: 78 INCHES X 30 INCHES X 9 INCHES AREA OF DELAMINATION WITH UP TO 1/16 INCHES VERTICAL AND HORIZONTAL CRACKS AND 48 INCHES X 6 INCHES X 6 INCHES SPALL WITH EXPOSED REBAR WITH MINOR SECTION LOSS IN TOP, BOTTOM, LEFT END AND SPAN 3 FACE OF CAP

Bent 3 Cap 1: PAR: 26 INCHES X 2 INCHES X 11 INCHES SPALL WITH EXPOSED REBAR WITH MINOR SECTION LOSS AND 45 INCHES X 9 INCHES X 6 INCHES AREA OF DELAMINATION WITH UP TO 1/4 INCHES LONGITUDINAL AND HORIZONTAL CRACKS IN BOTTOM AND SPAN 4 FACE OF CAP AT RIGHT END

Bent 3 Cap 1: 36 INCHES X 6 INCHES X 12 INCHES AREA OF DELAMINATION WITH UP TO 1/32 INCHES LONGITUDINAL AND HORIZONTAL CRACKS IN TOP AND SPAN 4 FACE OF CAP BENEATH BAY 3

Bent 3 Cap 1: 7 FEET X 6 INCHES X 22 INCHES AREA OF DELAMINATION WITH UP TO 1/16 INCHES LONGITUDINAL AND HORIZONTAL CRACKS WITH AND WITHOUT EFFLORESCENCE IN TOP AND SPAN 3 FACE OF CAP BENEATH BAY 3

Bent 3 Pile 1: WEST FACE STARTING AT BOTTOM OF PILE, SPALL 2 FEET HIGH X 1 FEET WIDE X UP TO 1/8 INCH DEEP

Bent 3 Pile 2: (2) AREAS OF DELAMINATION UP TO 33 INCHES X 9 INCHES X 9 INCHES WITH UP TO 1/16 INCHES VERTICAL CRACKS IN SOUTHWEST AND NORTHWEST CORNERS, APPROXIMATELY 3 FEET FROM BOTTOM OF CAP

End Bent 2 Cap 1: 13 FEET X 15 INCHES X 8 INCHES AREA OF DELAMINATION WITH UP TO 1/16 INCHES LONGITUDINAL AND HORIZONTAL CRACKS WITH AND WITHOUT EFFLORESCENCE IN TOP AND FACE OF CAP FROM LEFT OF BEAM 1 TO BEAM 2

End Bent 2 Cap 1: 46 INCHES X 8 INCHES X 9 INCHES AREA OF DELAMINATION WITH UP TO 1/16 INCHES LONGITUDINAL AND HORIZONTAL CRACKS WITH AND WITHOUT EFFLORESCENCE IN TOP AND FACE OF CAP BENEATH BAY 3

Bent 2 Cap 1: PAR: 30 INCHES X 30 INCHES X 12 INCHES DEEP SPALL WITH EXPOSED REBAR WITH MINOR SECTION LOSS AND FAILED REPAIR WITH 4 FEET SECTION OF FORMWORK IN RIGHT END OF CAP

Bent 2 Pile 1: (2) AREAS OF DELAMINATION UP TO 36 INCHES X 7 INCHES X 5 INCHES WITH 1/16 INCHES VERTICAL CRACKS IN NORTHWEST AND NORTHEAST CORNERS OF COLUMN, APPROXIMATELY 3 FEET FROM BOTTOM OF CAP

SPAN 2 BEAM 1 AT BENT 2 END, REPAIR PLATE 6 INCH X 6 INCH X 1/2 INCH ANGLE THAT IS 5 FEET LONG BOLTED TO WEB AND FLANGE WITH 3/4 INCH DIAMETER BOLTS SPACED AT 6 INCH ON CENTER. WEB HAS 10 INCH LONG X 1 FEET 9 INCH HIGH X 3/8 INCH THICK PLATE ALSO BOLTED WITH 3/4 INCH DIAMETER BOLTS.

Span 2 Beam 1: AT BENT 2 END, REPAIR HAS BEEN INSTALLED CONSISTING OF 6 INCH X 6 INCH X 1/2 INCH ANGLE THAT IS 5 FEET LONG BOLTED TO WEB AND FLANGE WITH 3/4 INCH DIAMETER BOLTS SPACED AT 6 INCH ON CENTER. WEB HAS 10 INCH LONG X 1 FEET 9 INCH HIGH X 3/8 INCH THICK PLATE ALSO BOLTED WITH 3/4 INCH DIAMETER BOLTS. ANGLE HAS 1/16 INCH SECTION LOSS ON OUTER EDGES WITH 7/16 INCH AVERAGE REMAINING AND PLATE HAVE SURFACE CORROSION.

SPAN 3 BEAM 1 AT BENT 2 END, REPAIR PLATES 6 IN X 6 IN X 1/2 IN ANGLE THAT IS 5 FT LONG BOLTED TO WEB AND FLANGE WITH 3/4 IN DIAMETER BOLTS SPACED AT 6 IN ON CENTER. WEB HAS 10 IN LONG X 1 FT 9 IN HIGH X 3/8 IN THICK PLATE ALSO BOLTED WITH 3/4 IN DIAMETER BOLTS. ANGLE AND PLATE HAVE SURFACE RUST.

SPAN 3 BENT 2 DIAPHRAGM IN BAY 1, 5 FEET LONG SECTION HAS BEEN REPLACED WITH 12 INCHES X 3 INCHES STEEL CHANNEL WELDED AT EACH END

Span 3 Beam 2: PAR: CORROSION ALONG BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 10 INCHES LONG X 4 INCHES HIGH DOWN TO 1/4 INCHES RESIDUAL WEB, AND 12 INCHES LONG X 5 1/2 INCHES WIDE DOWN TO 3/8 INCHES RESIDUAL FLANGE AT BENT 2

SPAN 2 BEAM 2 AT BENT 2, WELDED PLATE REPAIRS ON BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 36 INCHES LONG X 20 INCHES HIGH 1/2 INCH THICK IN WEB, AND 36 INCHES LONG X 4 INCHES WIDE X 4 INCH HIGH X 1/2 INCH THICK ANGLE

TYPICAL OVERHANG DIAPHRAGM SPALL 1 FEET LONG X 2 FEET WIDE X UP TO 4 INCH DEEP WITH EXPOSED REBAR WITH NO MEASURABLE SECTION LOSS, AT BENT 2 SHOWN

SPAN 2 BEAM 4 AT BENT 2 WELDED PLATE REPAIRS ON BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 30 INCHES LONG X 14 INCHES HIGH X 1/2 INCH THICK IN WEB, AND 30 INCHES LONG X 4 INCHES WIDE X 1/2 INCH THICK IN FLANGE AT BENT 2

Span 3 Beam 4: PAR--6 FOOT LONG CORROSION IN BOTTOM FLANGE REPAIR PLATE WITH 1/4 INCH AVERAGE REMAINING WITH 1 1/2 INCH X 1/2 INCH HOLE IN LEFT SIDE AT 18 INCHES FROM BEARING, BOTTOM FLANGE BELOW REPAIR PLATE WITH 3/8 INCH AVERAGE REMAINING WITH 24 INCH X UP TO 1 1/2 INCH WIDE HOLE IN LEFT SIDE STARTING AT BEARING. MEASUREMENTS OF WELDED PLATE REPAIRS ON BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 60 INCHES LONG X 21 1/2 INCHES HIGH X 1/2 INCH THICK IN WEB, AND 60 INCHES LONG X 4 INCHES WIDE X 1/2 INCH THICK IN FLANGE AT BENT 2

Span 3 Beam 4: PAR--6 FOOT LONG CORROSION IN BOTTOM FLANGE REPAIR PLATE WITH 1/4 INCH AVERAGE REMAINING WITH 1 1/2 INCH X 1/2 INCH HOLE IN LEFT SIDE AT 18 INCHES FROM BEARING, BOTTOM FLANGE BELOW REPAIR PLATE WITH 3/8 INCH AVERAGE REMAINING WITH 24 INCH X UP TO 1 1/2 INCH WIDE HOLE IN LEFT SIDE STARTING AT BEARING. MEASUREMENTS OF WELDED PLATE REPAIRS ON BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 60 INCHES LONG X 21 1/2 INCHES HIGH X 1/2 INCH THICK IN WEB, AND 60 INCHES LONG X 4 INCHES WIDE X 1/2 INCH THICK IN FLANGE AT BENT 2

SPAN 3 BEAM 4 AT BENT 2 WELDED PLATE REPAIRS ON BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 60 INCHES LONG X 21 1/2 INCHES HIGH X 1/2 INCH THICK IN WEB, AND 60 INCHES LONG X 4 INCHES WIDE X 1/2 INCH THICK IN FLANGE AT BENT 2

Span 3 Beam 1: PAR: CORROSION ALONG BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 43 INCHES LONG X 10 INCHES HIGH DOWN TO 1/2 INCHES RESIDUAL WEB, AND 36 INCHES LONG X UP TO 11 INCHES WIDE WITH SECTION LOSS DOWN TO KNIFES EDGE WITH 1/4 INCH AVERAGE REMAING FULL WIDTH OF FLANGE WITH 8 INCH X 2 INCH AREA AT BEARING THAT IS PAPER THIN WITH PERFORATIONS ON RIGHT SIDE AT BENT 3

Span 3 Beam 2: CORROSION WITH 1/16 INCH SECTION LOSS ALONG LEFT EDGE OF BOTTOM FLANGE 9 INCHES LONG X 5 1/2 INCHES WIDE (9/16 INCH REMAINING) AT BENT 3

Span 4 Beam 2: CORROSION WITH 1/16 INCH SECTION LOSS ALONG LEFT EDGE OF BOTTOM FLANGE 20 INCHES LONG X 11 5/8 INCHES WIDE (9/16 INCH REMAINING) AND CORROSION WITH NO MEASURABLE LOSS OF SECTION ALONG BOTH FACES OF WEB UP TO 27 INCHES LONG X 5 INCHES HIGH IN WEB AT BENT 3

Span 3 Beam 4: 2 FOOT LONG CORROSION IN BOTTOM FLANG AND WEB WITH 1/16 INCH SECTION LOSS IN BOTTOM FLANGE FULL WIDTH WITH 9/16 INCH AVERAGE REMAINING AND UP TO 22 INCHES HIGH IN WEB WITH 1/16 INCH SECTION LOSS WITH 9/16 INCH AVERAGE REMAINING AT BENT 3

Span 4 Beam 4: CORROSION ALONG BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 36 INCHES LONG X 13 INCHES HIGH WITH NO MEASURABLE LOSS OF SECTION IN WEB, AND 36 INCHES LONG X 5 1/2 INCHES WIDE DOWN TO 7/16 INCHES RESIDUAL WITH 1/2 INCH AVERAGE REMAINING IN FLANGE AT BENT 3

Span 4 Beam 1: PAR: CORROSION ALONG BOTH FACES OF WEB AND BOTTOM FLANGE UP TO 72 INCHES LONG X 31 1/2 INCHES HIGH DOWN TO 7/16 INCHES RESIDUAL WEB, AND 82 INCHES LONG X 11 5/8 INCHES WIDE DOWN TO 3/8 INCHES RESIDUAL FLANGE AT BENT 3

Span 4 Beam 4: CORROSION WITH 1/16 INCH LOSS OF SECTION ALONG RIGHT EDGE OF BOTTOM FLANGE WITH 9/16 INCH REMAINING 6 INCHES LONG X 2 INCHES WIDE AT END BENT 2

TYPICAL AREAS OF SURFACE CORROSION THROUGHOUT BEAM, SPAN 4 BEAM 3 SHOWN

Stream Bed Soundings

(Profile diagram on following sheet)

County **HAYWOOD** Structure Number: **430158** Sounding Date **05/11/2023**

Sounding recorded from: **Top of Bridge Rail**

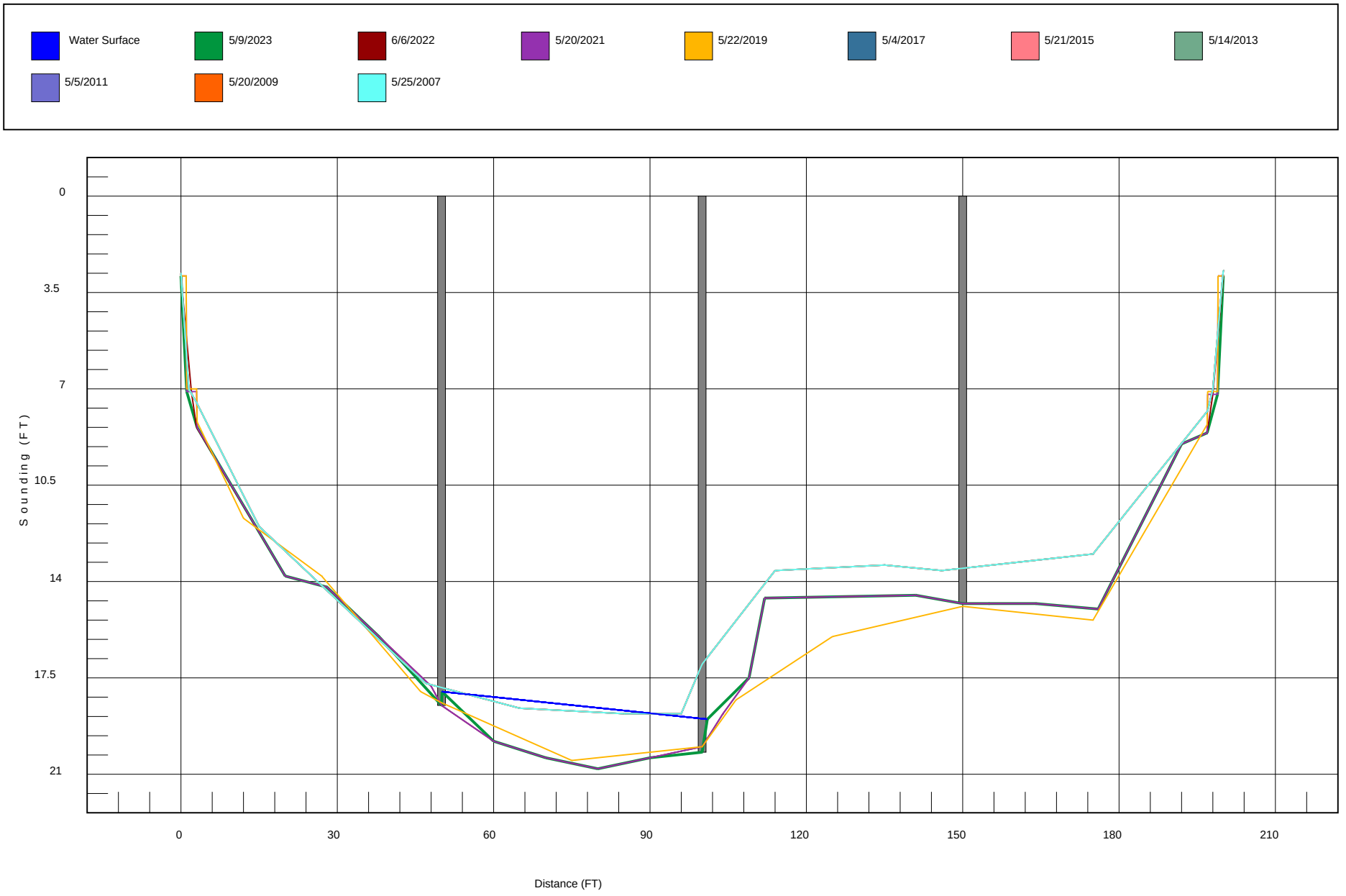
Highwater Mark Distance **15** Location of Highwater Mark **STAINS ON COLUMNS**

Distance (Station) ft.	Downstream Sounding ft.	Upstream Sounding ft.	Description
0.000	2.900	0.000	FILL FACE
1.100	7.100	0.000	TOP OF CAP
3.100	8.400	8.300	STREAM FACE
20.000	13.800	0.000	TOE OF SLOPE
28.000	14.200	0.000	
38.000	16.000	0.000	
50.000	18.500	19.100	PIER 1
50.100	18.000	0.000	WSWE
60.000	19.800	0.000	
70.000	20.400	0.000	
80.000	20.800	0.000	
90.000	20.400	0.000	
100.000	20.200	17.000	PIER 2
101.000	19.000	0.000	WSWE
109.000	17.500	0.000	
112.000	14.600	0.000	
141.000	14.500	0.000	
150.000	14.800	14.600	PIER 3
155.000	14.800	0.000	
164.000	14.800	0.000	EDGE OF GREENWAY
176.000	15.000	0.000	TOE OF SLOPE
192.000	9.000	0.000	
196.900	8.600	8.700	STREAM FACE
198.900	7.200	0.000	TOP OF CAP
200.000	2.900	0.000	FILL FACE

Bridge: 430158 County: HAYWOOD Date: 05/09/2023

STREAMBED PROFILE (Downstream)

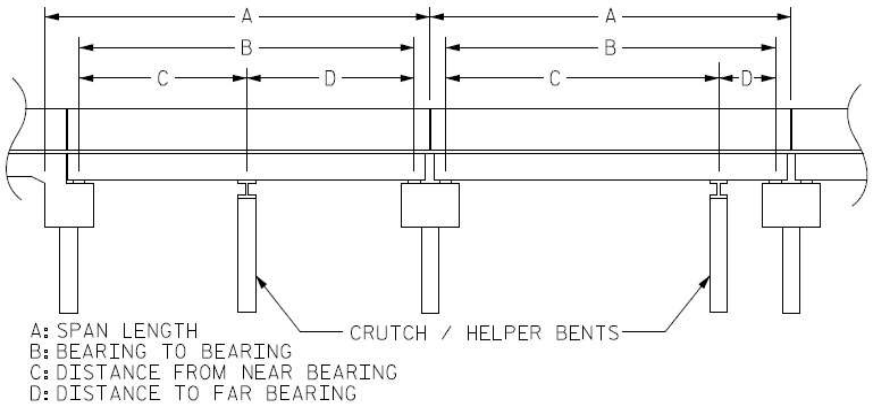
Top of Rail = 0FT (Sounding)



Structure Data Worksheet

Span Profile

County: **HAYWOOD** Structure Number: **430158**



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	50.000	48.500			
2	50.000	48.750			
3	50.000	48.750			
4	50.000	48.500			

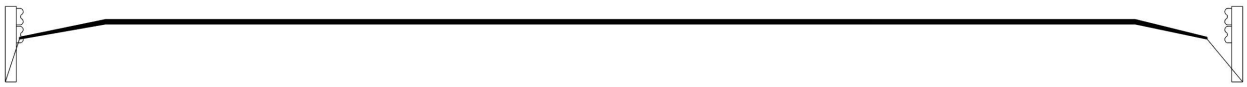
Structure Number: 430158 Span: 4 Route Name: Greenway

LOOKING EAST THROUGH SPAN 4

Route Number: 88000000	**Route Name:** Greenway			**Reference Feature:** G
Minimum Vertical Clearance 7.900 feet	**Maximum Minimum Vertical Clearance** feet			
Total Horizontal Clearance 23.000 feet	**Lateral Clearances: Left:** 11.000 feet **Right** 4.000 feet			
☐ **Base Highway Network**	**LRS Inventory Route, Sub Route Number**			
Milepost: 0.000	**Number of Lanes:**	**ADT:**	**Year of ADT:**	**Percentage of Trucks:** 0
☐ **National Highway System**		☐ **STRAHNET Highway Designator**		
Functional Classification		**Direction of Traffic:**		

Bridge Inspection Field Sketch

MEAS. 25FT NORTH OF BRIDGE



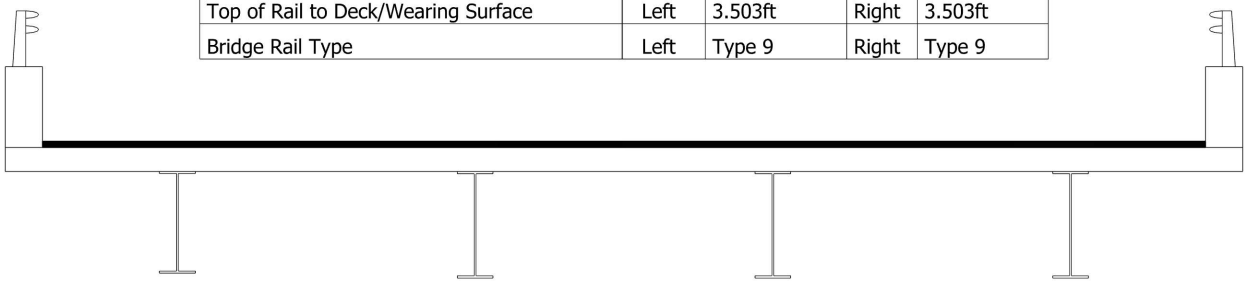
Roadway	24ft Wide	2 Paved Lanes	Looking South
Left Shoulder	2.33ft Wide	2ft Paved	.33ft Unpaved
Right Shoulder	2.5ft Wide	1.67ft Paved	0.83ft Unpaved
Left Guardrail	2.33ft from road		
Right Guardrail	2.5ft from road		

Title	Description
APPROACH ROADWAY	LOOKING SOUTH

Structure No: 430158	Drawn By: MAL	Date: 5/11/2023	Filename: S001458000270.wes

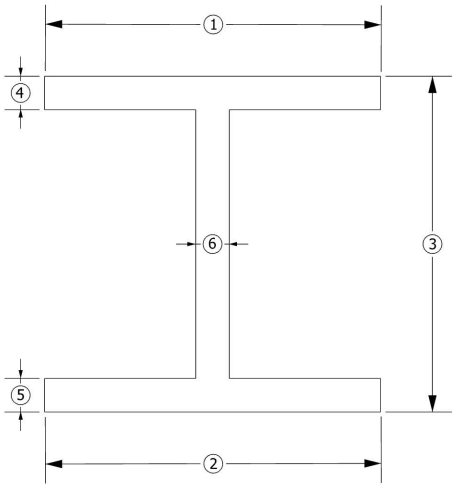
Bridge Inspection Field Sketch

Deck Width/Out to Out	33.25ft	Between Rails			29.75ft
Clear Roadway	28ft	Wearing Surface			2in
Median Width		Median Height			
Curb Height		Left	8in	Right	8in
Sidewalk Width		Left		Right	
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left	12in	Right	12in
Top of Rail to Deck/Wearing Surface		Left	3.503ft	Right	3.503ft
Bridge Rail Type		Left	Type 9	Right	Type 9



Measurements for Span #	1		
Deck Thickness	7.75in	Left Overhang	4.625ft
Top of Rail to Bottom of Beam (Avg)	7.113ft	Right Overhang	4.625ft

Beam #	Beam Type	Width	Height	Spacing	From
1	Plate Girder	11.63in	32.76in	4.625ft	Left Edge of Deck
2	Plate Girder	11.63in	32.76in	8ft	Beam 1
3	Plate Girder	11.63in	32.76in	8ft	Beam 2
4	Plate Girder	11.63in	32.76in	8ft	Beam 3

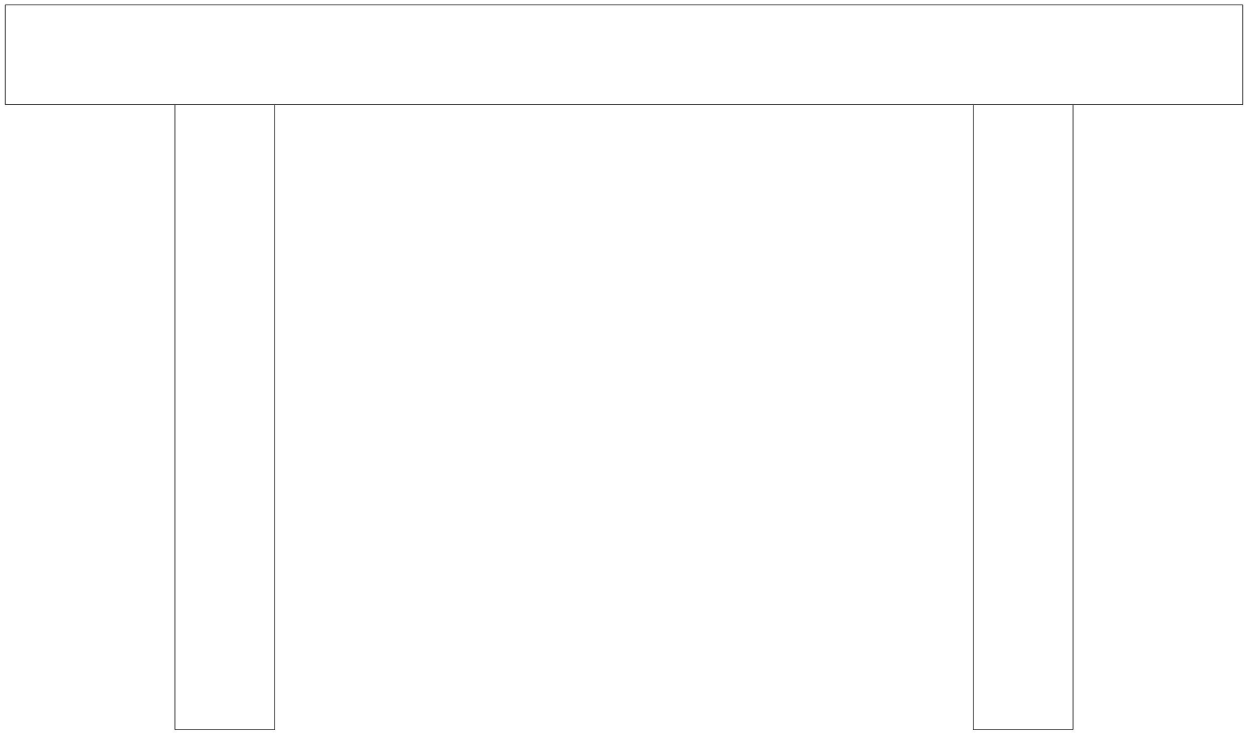


Span 1: Beam 1	
1	11.63in
2	11.63in
3	32.76in
4	0.63in
5	0.63in
6	0.56in

Title	Description
TYPICAL SECTION	SPANS 1-4

Structure No: 430158	Drawn By: MAL	Date: 5/11/2023	Filename: S001458000271.wes

Bridge Inspection Field Sketch



Caps							
#	Name	Type	Length	Width	Height	Left Beam to End of Cap	Right Beam to End of Cap
1	Cap 1	Reinforced Concrete Pier Cap	31ft	30in	30in	1.5ft	1.5ft

Piles							
#	Name	Type	Spacing	From	Height/Diam.	Width	Length
1	Pile 1	Reinforced Concrete Column	5.5ft	Left End of Bent	30in		17.5ft
2	Pile 2	Reinforced Concrete Column	20ft	Pile 1	30in		17.5ft

Title	Description
SUBSTRUCTURE	BENTS 1-3

Structure No: 430158	Drawn By: MAL	Date: 5/11/2023	Filename: S001458000272.wes

LOOKING NORTH

GUARDRAIL TERMINAL END SOUTHEAST CORNER

GUARDRAIL POST SPACING MIDWAY SOUTHEAST SHOWN NORTHWEST AND NORTHEAST SIMILAR

GUARDRAIL POST SPACING AT BRIDGE SOUTHEAST SHOWN NORTHWEST AND NORTHEAST SIMILAR

GUARDRAIL ATTACHMENT TO BRIDGE SOUTHEAST SHOWN NORTHEAST SIMILAR

LOOKING EAST UPSTREAM

LOOKING EAST SPAN 4

GUARDRAIL TRANSITION TO BRIDGE NORTHWEST CORNER

LOOKING SOUTH

LOOKING WEST SPAN 4

LOOKING WEST DOWNSTREAM

ABUTMENT 1, ABUTMENT 2 SIMILAR

PIER 1, PIER 2 SIMILAR

TYPICAL BEARING BEAM 2 SPAN 1 A PIER 1 SHOWN

SUPERSTRUCTURE UNDERSIDE SPAN 2, ALL OTHERS SIMILAR

UTILITY UNDER SPAN 1, NOT ATTACHED TO BRIDGE

WEST ELEVATION

EAST ELEVATION

LOOKING WEST THROUGH SPAN 4

LOOKING EAST THROUGH SPAN 4