

Bridge Inspection Report

B3093

I-30 WB Log 113.95

over

SALINE RIVER RELIEF



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

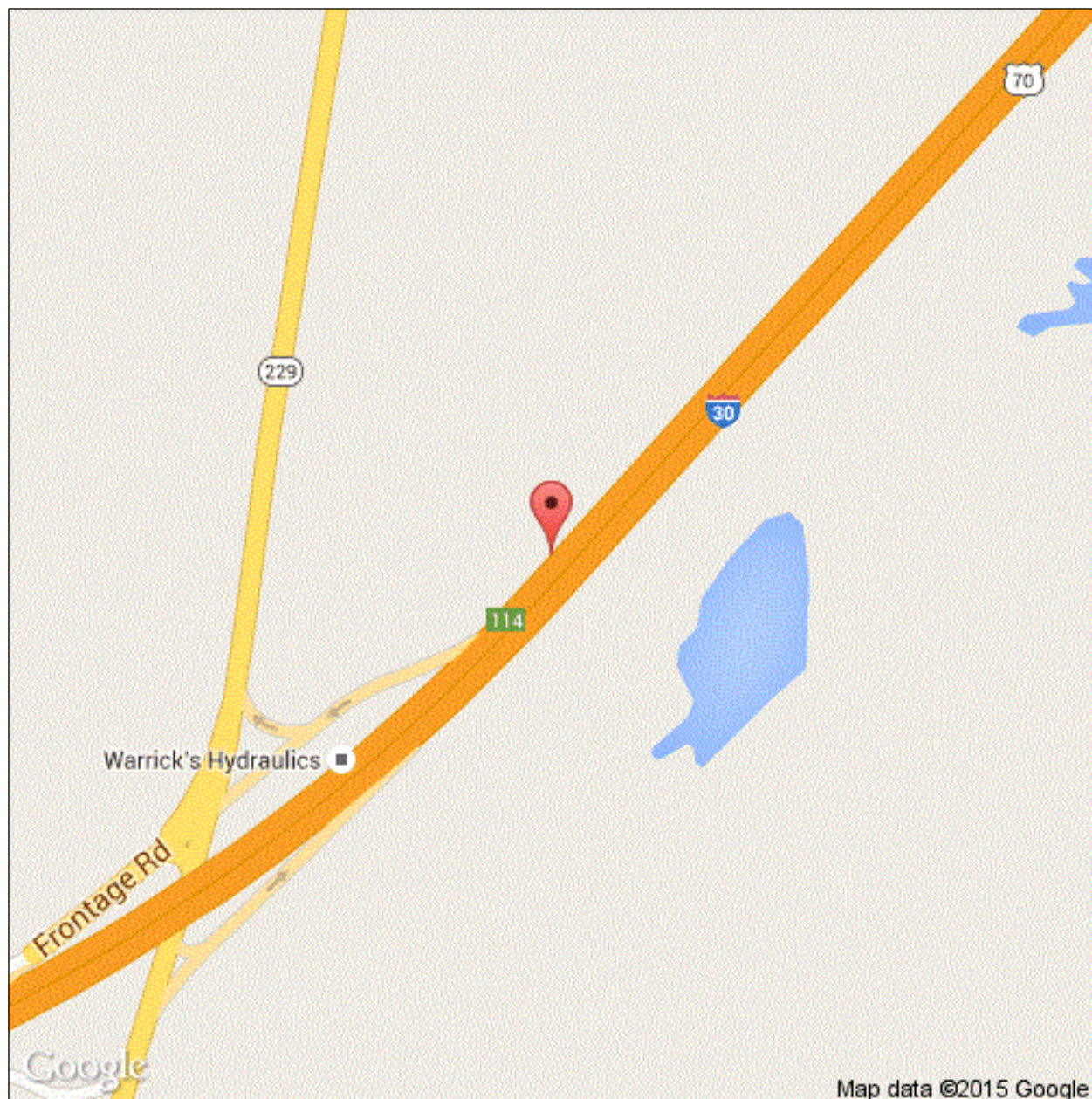
Structure Number: B3093

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Bridge Inspection Report

Location Map



Latitude: 34.54778

Longitude: -92.62729

Inspector:

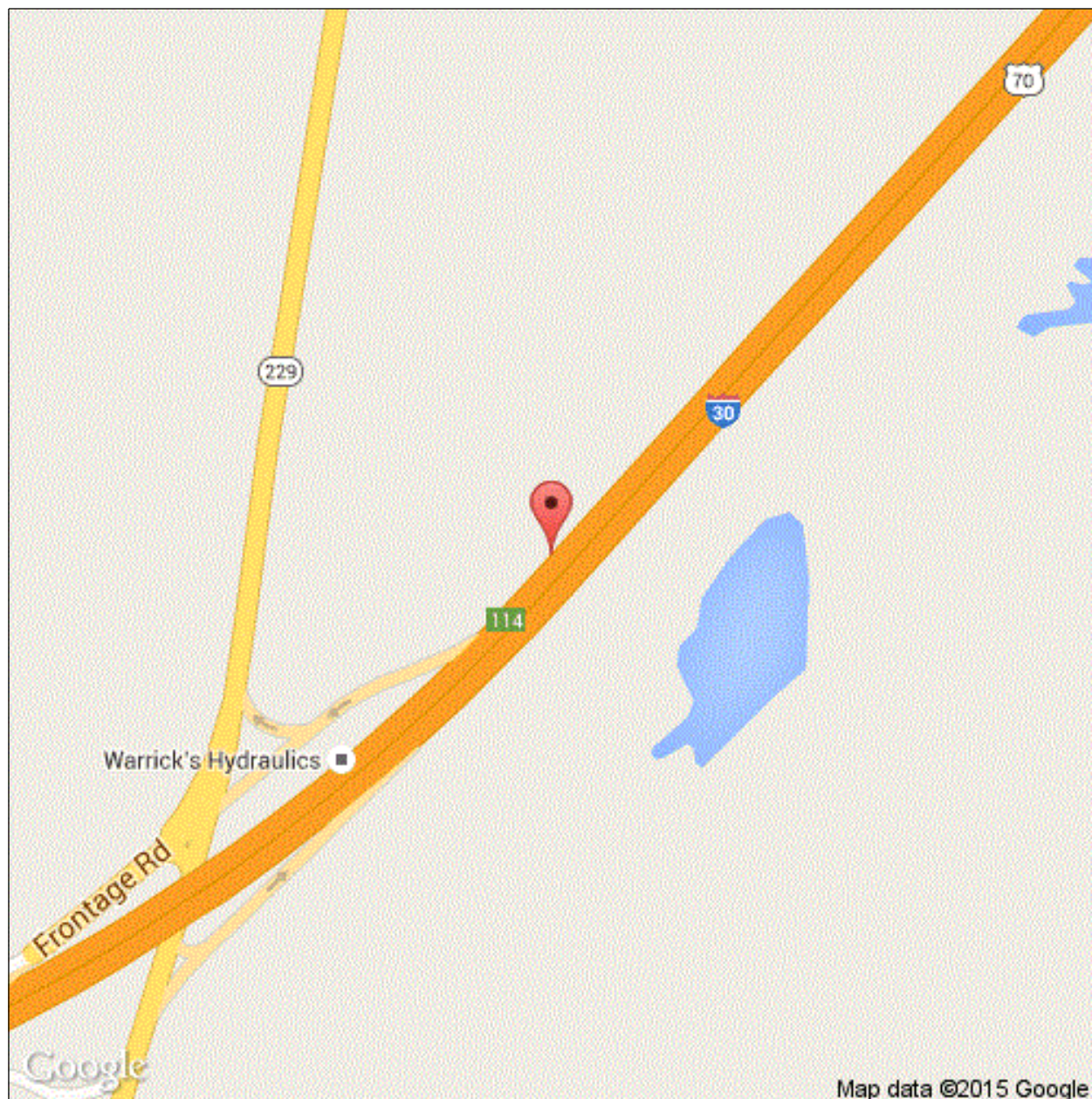
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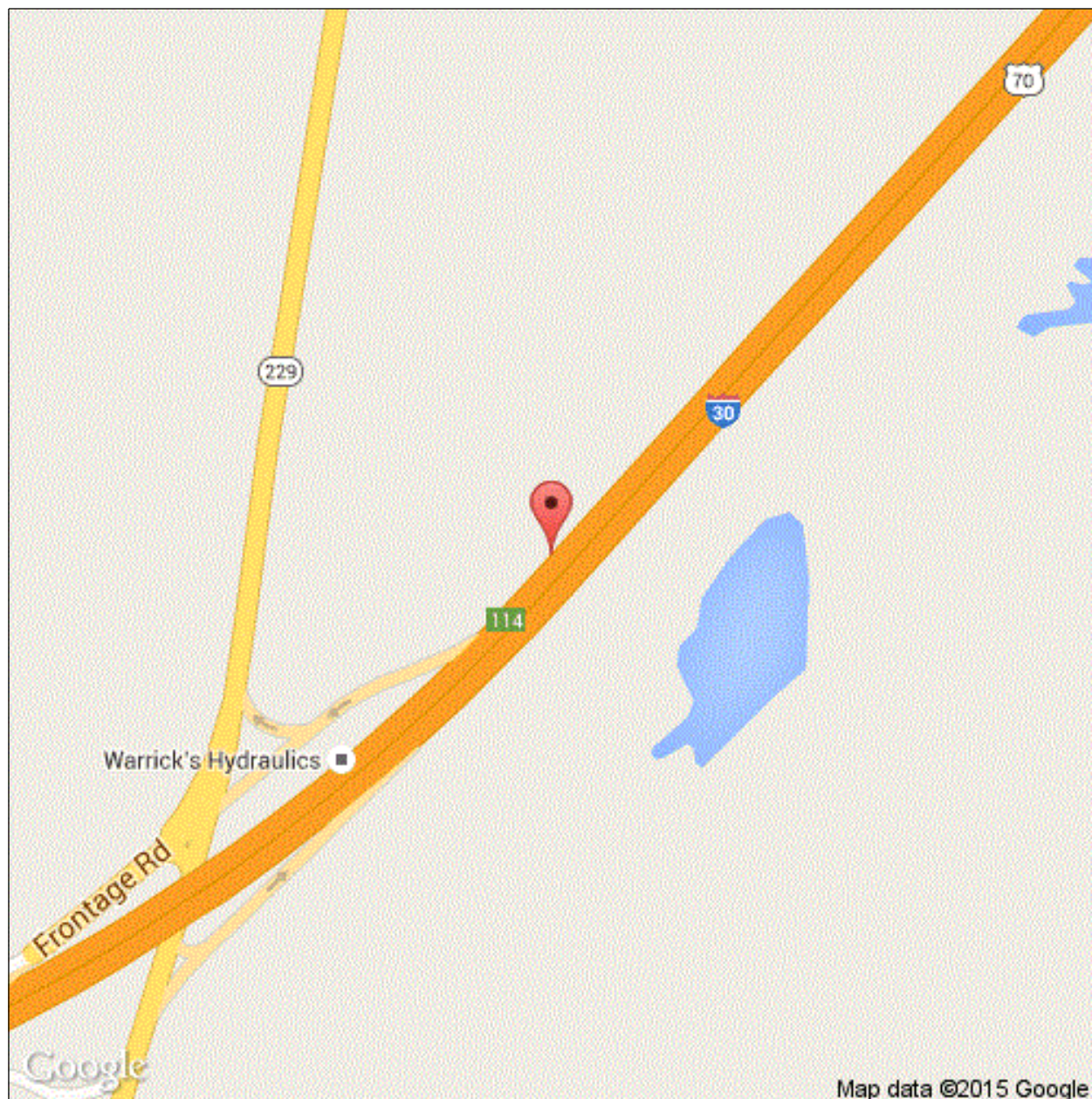
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Executive Summary

Job 60247 dwg 24681 Approach looking east.
Logged west to east.

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	06/05/2018
(8) STRUCTURE NUMBER	B3093	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 1 1 30 4	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	06 (3) COUNTY CODE 125	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	SALINE RIVER RELIEF	C. OTHER SPECIAL	Y 24 06/29/2017
(7) FACILITY CARRIED	I-30 WB Log 113.95		
(9) LOCATION	2.7 MI SW OF SH 5 @ BENTO		
(11) MILEPOINT 113.950	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000030220 (13B) SUBROUTE NUMBER 01		
(16) LATITUDE 34.54778	(17) LONGITUDE -92.62729		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	6
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE	4 (60) SUBSTRUCTURE 5
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION	7 (62) CULVERT N
(44) STRUCTURE TYPE, APPROACH SPANS			
A) KIND OF MATERIAL/DESIGN: 0 - Other			
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN 10	(46) NUMBER OF APPROACH 0		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 1		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1958	(106) YEAR RECONSTRUCTED 1983	(31) DESIGN LOAD	6
(42) TYPE OF SERVICE ON 1 UNDER 5		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 00		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 96882	(19) BYPASS DETOUR LENGTH 0	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	36.0
(109) AVERAGE DAILY TRUCK TRAFFIC 30		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 50	(49) STRUCTURE LENGTH (ft.) 503.1	(67) STRUCTURAL EVALUATION	4
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	7
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 40.0		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 42.8		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 40.0		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 45	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	36A) BRIDGE RAILINGS:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 41.0		36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.) N 0		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) N 99.9		(113) SCOUR CRITICAL BRIDGES	5
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING	71.0 STATUS 1
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 0		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	01
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	1
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	L
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	1
(114) FUTURE ADT 37000	(115) YEAR OF FUTURE ADT 2033	(103) TEMP STRUCTURE	
		(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	1
		(20) TOLL	3
		(21) MAINTENANCE RESPONSIBILITY	01
		(22) OWNER	01
		(37) HISTORICAL	5
		NAVIGATION DATA	
		(38) NAVIGATION CONTROL	0
		(111) PIER OR ABUTMENT PROTECTION	1
		(39) NAV VERT CLEARANCE (ft.)	0
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
		(40) NAV HORIZONTAL CLEARANCE (ft.)	0

Inspector:

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Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	21441	sq. ft.	16380	4570	491	0
	6/5/2018 - KRM & RLS - Deck has large transverse and longitude cracks in all spans. Spall adjacent to joint armor at bent 6 filled with asphalt, moderate abrasion in wheel paths.						
1080 - Delamination/Spall/Patched Area		6		0	0	6	0
1120 - Efflorescence/Rust Staining		80		0	80	0	0
1130 - Cracking (RC and Other)		3825		0	3340	485	0
1190 - Abrasion/Wear (PSC/RC)		1150		0	1150	0	0
107 - Steel Open Girder/Beam	1- Ben.	3500	ft.	3465	0	35	0
	6/5/2018 - KRM & RLS - Girders 1 and 7 have cracks in diaphragm connections that propagate into the webs at the following locations. Span 3 beam 1 at diaphragm 2, Span 7 beam 7 at diaphragm 2, Span 10 beam 1 at diaphragm 2, span 10 beam 7 Diaphragm 2, span 8, beam 1 Diaphragm 2, span 2 beam 1, Diaphragm 2. Missing bolt bent 7 girder 7 back side and span 9 girder 7 first diaphragm has 3 missing bolts and 1 loose bolt Corrosion at beam ends in top of webs.						
1000 - Corrosion		24		0	0	24	0
1010 - Cracking		8		0	0	8	0
1020 - Connection		3		0	0	3	0
515 - Steel Protective Coating		31500	sq. ft.	28808	2500	0	192
3440 - Effectiveness (Steel Protective Coatings)		2692		0	2500	0	192
215 - Reinforced Concrete Abutment	1- Ben.	122	ft.	101	21	0	0
	6/5/2018 - KRM & RLS - Abutments have vertical cracks and cracks with efflorescence. Bent 11 has a spall with exposed reinforcing steel.						
1090 - Exposed Rebar		5		0	5	0	0
1120 - Efflorescence/Rust Staining		4		0	4	0	0
1130 - Cracking (RC and Other)		12		0	12	0	0
225 - Steel Pile	1- Ben.	72	each	4	44	24	0
	6/5/2018 - KRM & RLS - Steel piles have corrosion at the top with section loss up to 3/16".						
1000 - Corrosion		68		0	44	24	0
515 - Steel Protective Coating		2880	sq. ft.	1518	360	930	72
3440 - Effectiveness (Steel Protective Coatings)		1362		0	360	930	72
234 - Reinforced Concrete Pier Cap	1- Ben.	547	ft.	544	3	0	0
	6/5/2018 - KRM & RLS - Vertical cracks in caps.						
1130 - Cracking (RC and Other)		3		0	3	0	0

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Element Inspection

302 - Compression Joint Seal	1- Ben.	622	ft.	368	63	171	20
6/5/2018 - KRM & RLS - Joints are leaking and 20' of joint material is missing at bent 3.							
2310 - Leakage		165		0	0	145	20
2330 - Seal Damage		26		0	0	26	0
2350 - Debris Impaction		63		0	63	0	0
311 - Movable Bearing	1- Ben.	70	each	0	0	70	0
6/5/2018 - KRM & RLS - All bearings have pack rust, Bent 6 span 6 bearing 3 has a pin working out. Bent 6 span 6 bearing 5 has 1/4" gap between bottom of bearing and masonry plate causing traffic to impact load the bearing.							
1000 - Corrosion		70		0	0	70	0
313 - Fixed Bearing	1- Ben.	70	each	16	9	45	0
6/5/2018 - KRM & RLS - Bearings have light to moderate rust, Bent 3 span 2 girder 4: the fixed bearing has a 1/8" gap between the bearing and sole plate causing traffic to impact load the bearing. Bent 11 bearings 4 and 6 have movement also.							
1000 - Corrosion		54		0	9	45	0
321 - Reinforced Concrete Approach Slab	1- Ben.	3870	sq. ft.	3566	220	84	0
6/5/2018 - KRM & RLS - Approaches have large unsealed transverse cracks.							
1130 - Cracking (RC and Other)		104		0	20	84	0
1190 - Abrasion/Wear (PSC/RC)		200		0	200	0	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	1000	ft.	912	88	0	0
6/5/2018 - KRM & RLS - Vertical cracks in bridge railing scattered throughout structure.							

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Bridge Inspection Report

Pictures

PHOTO 1

Description

PHOTO 2

Description

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Inspection Date:

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Bridge Inspection Report

Pictures

PHOTO 2

Description

Inspector:

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Bridge Inspection Report

Sketches

Inspector:

Structure Number: B3093

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 6/18/2014 12:00:00 AM

Priority: B - Pressing; 6 month completion goal

Work Code:

Deficiency Description:

Span 3 beam 1 at diaphragm 2, Span 7 beam 7 at diaphragm 2, Span 10 beam 1 at diaphragm 2, span 10 beam 7 diaphragm 2 & span 8 beam 1 diaphragm 2, have cracks in the webs at bottom welds of diaphragm bracket connections.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Forward State



PHOTO 1 Description 4 1/2 inch crack span 3 beam 1 dia. 2 at bottom of dia. Bracket.

Stage: Forward State



PHOTO 2 Description Span 7 GDR 7 second diaphragm. Has a 4 9/16 inch long crack in web at bottom of diaphragm bracket.

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Maintenance Needs

Stage: Forward State

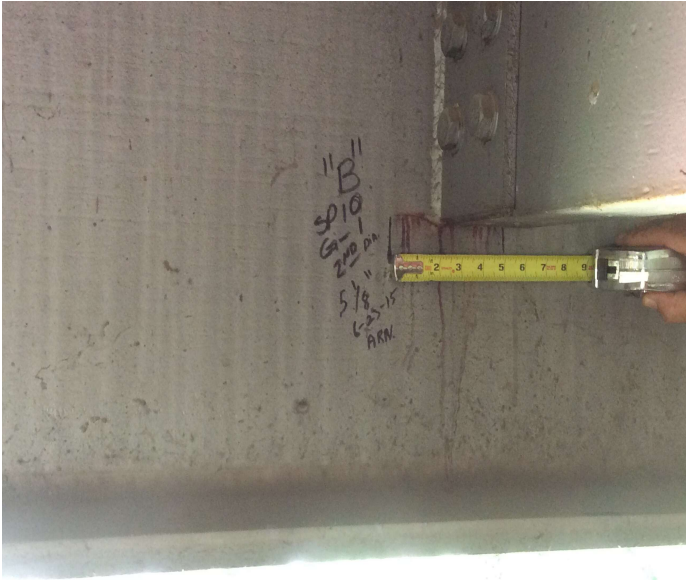


PHOTO 3	Description	Span 10 GDR 1 2nd dia. Has a 5 1/8 inch crack to the web at the bottom of diaphragm.
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Bridge Inspection Report

Maintenance Needs

Date Reported: 6/18/2014 12:00:00 AM

Priority: B - Pressing; 6 month completion goal

Work Code:

Deficiency Description:

Bent 6 span 6 bearing 3 has a pin working out.

Bent 6 span 6 bearing 5 has 1/4" gap between bottom of bearing and masonry plate causing traffic to impact load the bearing.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Forward State



PHOTO 1 Description Bent 6 span 6 beam 3 bearing pin is working out and moving under traffic.

Stage: Open



PHOTO 2 Description Bent 6 moveable bearings 5 and 6 have up to 3/8" movement when under traffic impact.

Inspector:

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Bridge Inspection Report

Maintenance Needs

Stage: Open



PHOTO 3 Description Bent 6 moveable bearing 3, bearing pin is working out.

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 6/18/2014 12:00:00 AM

Priority: B - Pressing; 6 month completion goal

Work Code:

Deficiency Description:

Bent 3 span 2 girder 4: the fixed bearing has a 1/8" gap between the bearing and sole plate causing traffic to impact load the bearing.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Bent 3 fixed bearing 4 has movement under traffic impact.

Inspector:

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Maintenance Needs

Date Reported: 6/18/2014 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Deck all spans large unsealed cracks.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Span 10 large transverse cracks.

Stage: Open



PHOTO 2 Description Span 6 longitudinal cracks.

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Maintenance Needs

Date Reported: 6/18/2014 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Bearings all bents have laminating rust.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Most all bearings have pack rust.

Stage: Open



PHOTO 2 Description Bent 8 moveable bearing 6 has pack rust. Typical condition.

Inspector:

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Maintenance Needs

Date Reported: 6/18/2014 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

All steel columns have active rust at top of encasements and bottom of caps.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Erosion or scour has undermined concrete encasement exposing steel piles at ground level.

Stage: Open



PHOTO 2 Description Bent 6 pile 1 has 3/16\" section loss in top of pile.

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Maintenance Needs

Stage: Open



PHOTO 3 Description Bent 9 steel pile 1 has up to 1/8" section loss at the top.

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Maintenance Needs

Date Reported: 06/21/2016

Priority: C - Important

Work Code:

Deficiency Description:

Joint seals at all bents have damage. bent 3 20' of seal has fallen and laying on top of cap

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Bent 3 has 20' joint material that has fallen out.