

Bridge Inspection Report

05092

**State Highway 80
over
Briscoe Creek -Scott Co.**



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

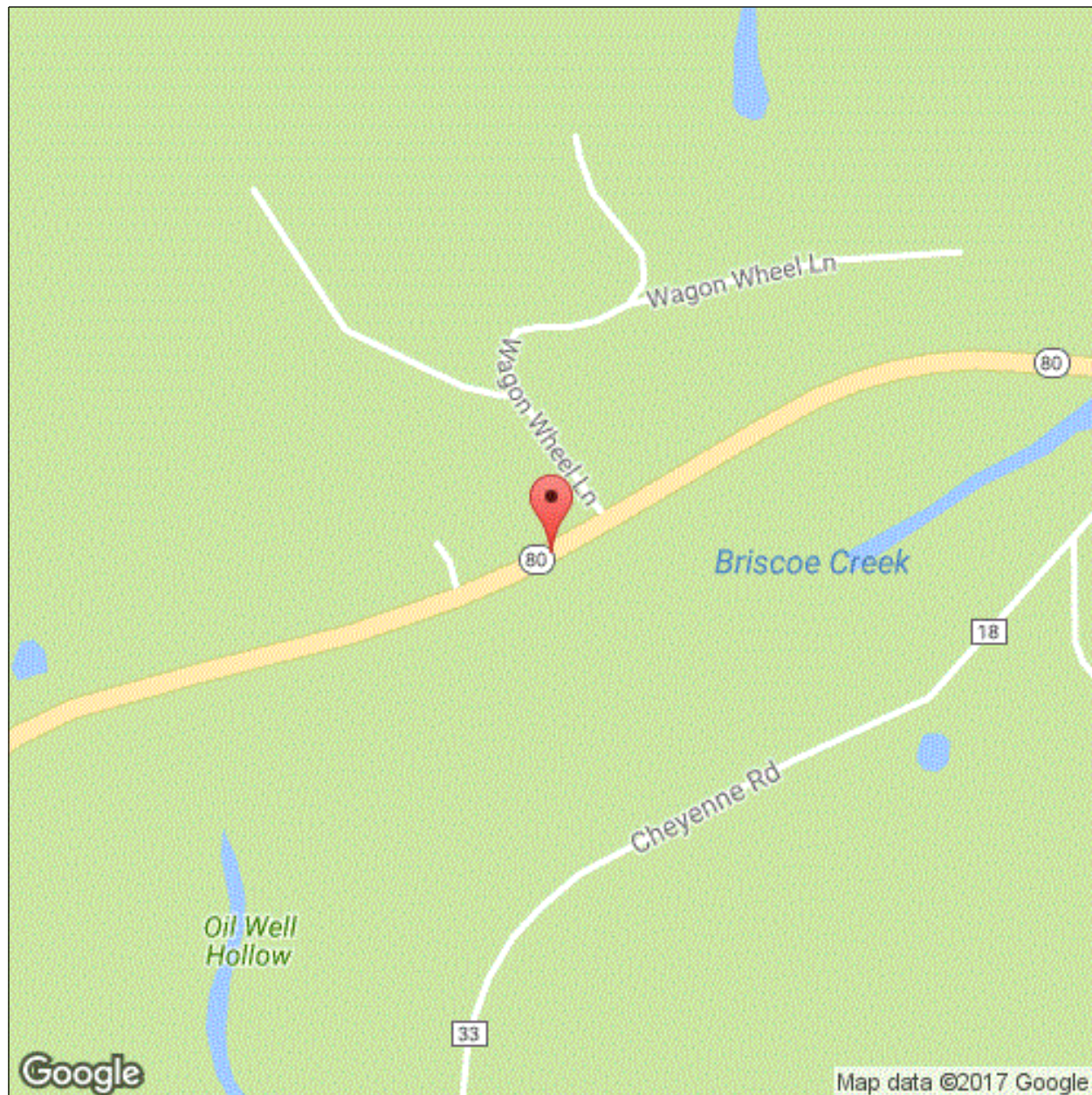
Structure Number: 05092

Inspection Date:

Facility Carried: State Highway 80

Bridge Inspection Report

Location Map



Latitude: 34.95517

Longitude: -93.72639

Inspector:

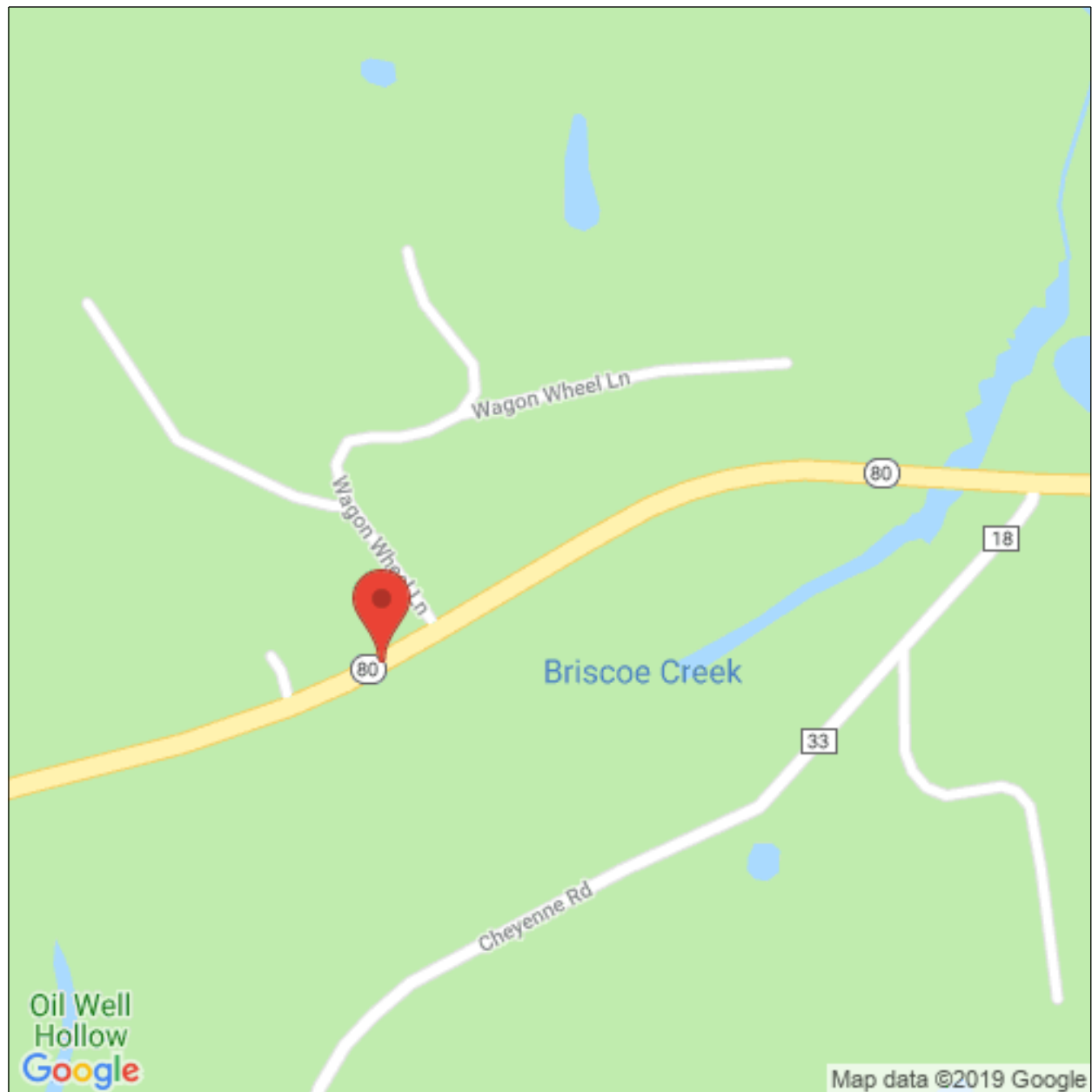
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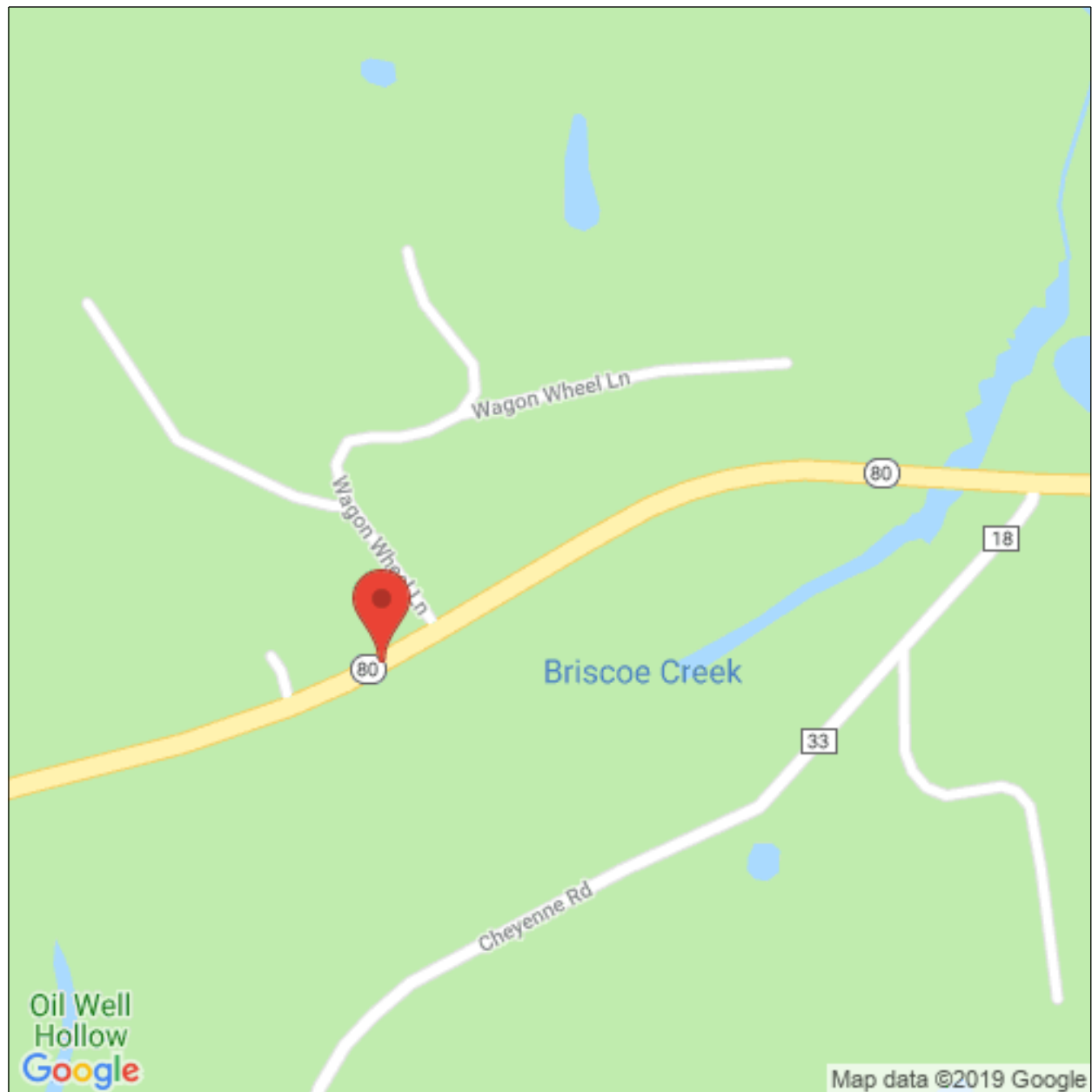
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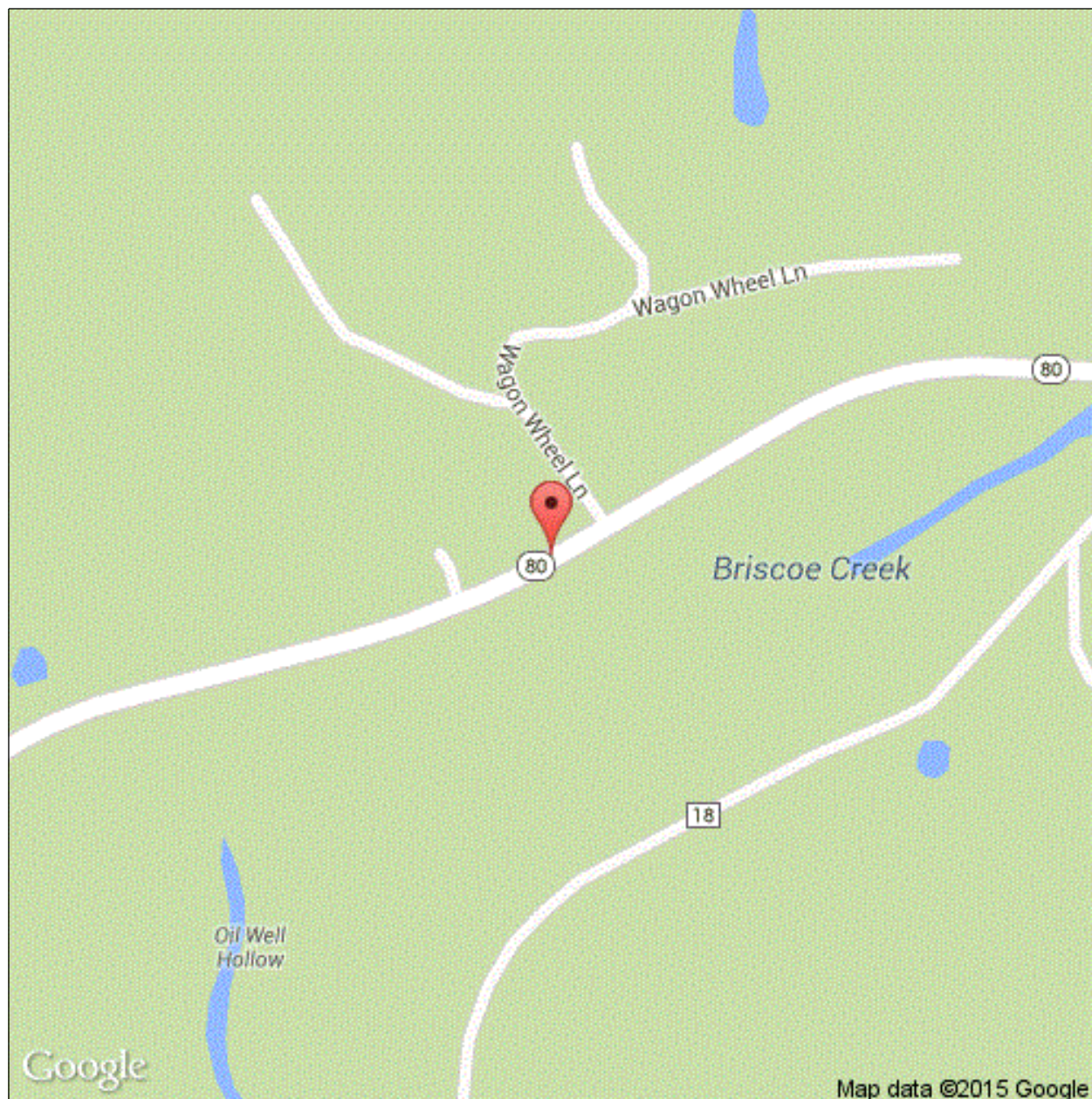
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Executive Summary

Inspector:

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National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	02/21/2019
(8) STRUCTURE NUMBER	05092	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 80 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	04 (3) COUNTY CODE 127	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Briscoe Creek -Scott Co.	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	State Highway 80		
(9) LOCATION	1.33 MI W YELL CO LINE		
(11) MILEPOINT 22.145	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.95517	(17) LONGITUDE -93.72639		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	7
A) KIND OF MATERIAL/DESIGN: 1 - Concrete		(59) SUPERSTRUCTURE	7 (60) SUBSTRUCTURE 5
B) TYPE OF DESIGN/CONSTR: 01 - Slab		(61) CHANNEL & CHANNEL PROTECTION	6 (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 3	(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 1968	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	2
(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	41.0
(29) AVERAGE DAILY TRAFFIC 540	(19) BYPASS DETOUR LENGTH 10	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	25.0
(109) AVERAGE DAILY TRUCK TRAFFIC 1		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 28	(49) STRUCTURE LENGTH (ft.) 84	(67) STRUCTURAL EVALUATION	5
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1.4 RIGHT 1.4		(68) DECK GEOMETRY	4
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	24.0	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	30	(71) WATERWAY ADEQUACY	6
(32) APPROACH ROADWAY WIDTH (ft.)	21.0	(72) APPROACH ROADWAY ALIGNMENT	7
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 0	(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.)	26.9	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	67.5 STATUS 0
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	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	07
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 671	(115) YEAR OF FUTURE ADT 2028	(103) TEMP STRUCTURE	
		(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	0
		(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

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Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
38 - Reinforced Concrete Slab	1- Ben.	2184	sq. ft.	2003	181	0	0
	-Span # 1 over Bent 2 has exposed shallow placed re-bar near joint. -One vertical crack visible in the edge of deck located over the Lt side of Bent 3 in Span 3. -Span 1 has short duration longitudinal cracks.						
1090 - Exposed Rebar		1		0	1	0	0
1130 - Cracking (RC and Other)		56		0	56	0	0
1190 - Abrasion/Wear (PSC/RC)		124		0	124	0	0
215 - Reinforced Concrete Abutment	1- Ben.	68	ft.	68	0	0	0
	-Abutments are stained from water leakage.						
225 - Steel Pile	1- Ben.	8	each	0	2	6	0
	-The majority of steel columns have active corrosion with up to 1/8" section loss at the cap juncture. -Bent 2, Pile 3 has dent on flange near base of pile. -Bent # 2 Pile # 1,2 & 3 have up to 1/8" section loss at the cap juncture. -Bent # 3 Pile s 1,2 & 3 have up to 1/8" section loss at the cap juncture. -Bents 2 & 3 piles have paint with pitting and old section loss scars with approx. 1/16" section loss at base of all piles. -Paint system has freckled rust at the base of piles.						
1000 - Corrosion		8		0	2	6	0
515 - Steel Protective Coating		380	sq. ft.	140	110	110	20
3440 - Effectiveness (Steel Protective Coatings)		240		0	110	110	20
234 - Reinforced Concrete Pier Cap	1- Ben.	53	ft.	33	17	3	0
	-History files indicate that the bottom of Bent 2 cap between Columns 3 and 4 is spalled, cracked and delaminated. This area been grouted since the last inspection. -Minor spalls with rust stains from slab bolsters. -North end of Bents 2 & 3 caps have minor golf ball size spalls with exposed reinforcing steel.						
1080 - Delamination/Spall/Patched Area		2		0	1	1	0
1090 - Exposed Rebar		2		0	0	2	0
1130 - Cracking (RC and Other)		16		0	16	0	0
301 - Pourable Joint Seal	1- Ben.	52	ft.	52	0	0	0
330 - Metal Bridge Railing	1- Ben.	168	ft.	168	0	0	0
	-Aluminum rails have no apparent problems.						

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Pictures

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Sketches

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Maintenance Needs

Date Reported: 4/16/2013 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Substructure

There are spalls with exposed reinforcing steel in the left end of bent number 3 cap.

Work Description:

02/21/2019 - EJW - Maintenance forces have grout patched the spalling on the undersurface of the cap since the last inspection.

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description North end of Bents 2 & 3 caps have minor golf ball size spalls with exposed reinforcing steel.

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Maintenance Needs

Date Reported: 4/16/2013 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Columns

Steel columns have active corrosion with up to approximately 1/8" section loss at the cap juncture, Bent 2 steel piles have active corrosion and pitting on the bottom portion near the water line.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Bent # 3 active corrosion with minor section loss at the cap juncture.

Stage: Monitor



PHOTO 2 Description Typical paint system on the pile.

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Maintenance Needs

Date Reported: 02/21/2019

Priority: D - Routine

Work Code:

Deficiency Description:

Approach Roadway

Minor asphalt settlement at the east approach.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description East approach minor achm settlement.

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Maintenance Needs

Date Reported: 02/21/2019

Priority: D - Routine

Work Code:

Deficiency Description:

R.C. Slab Span

The deck joint seals have adhesion failures and leak water on the substructure.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Bent # 2 joint seal adhesion failure.