

Bridge Inspection Report

M3614
S.H 8 SEC. 04-1.39
over
ROCK CREEK



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

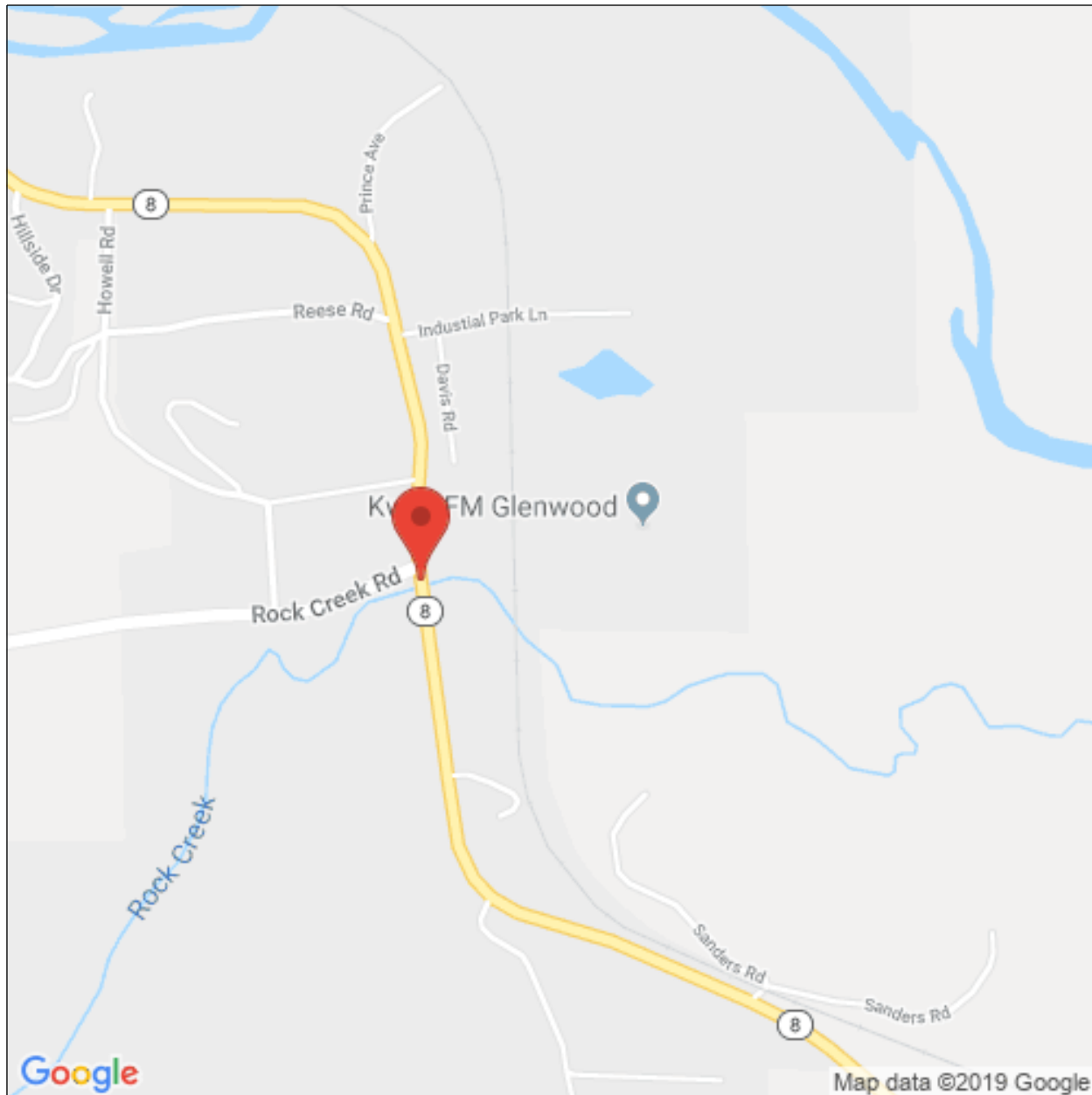
Structure Number: M3614

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Bridge Inspection Report

Location Map



Latitude: 34.30995

Longitude: -93.53899

Inspector:

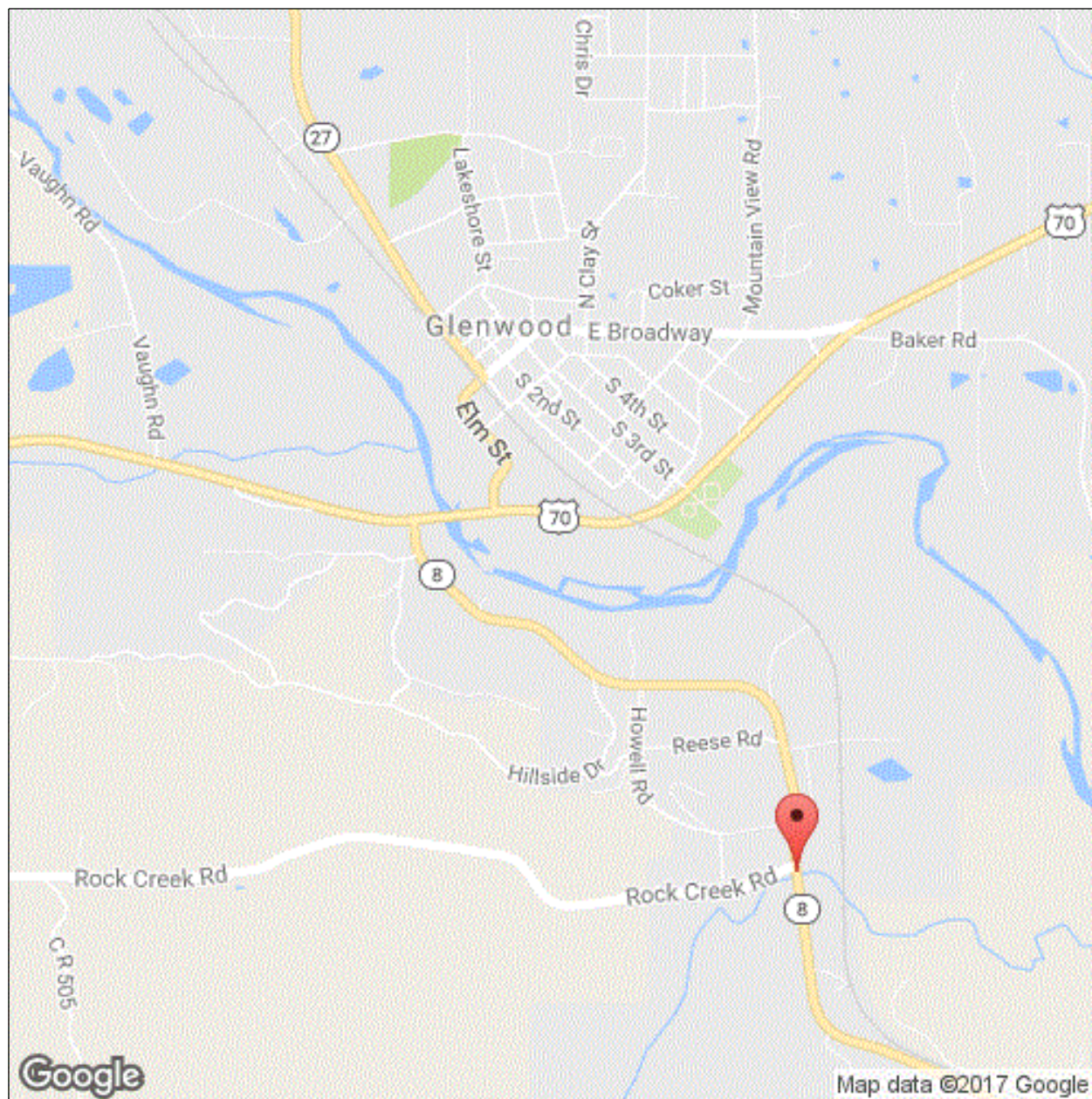
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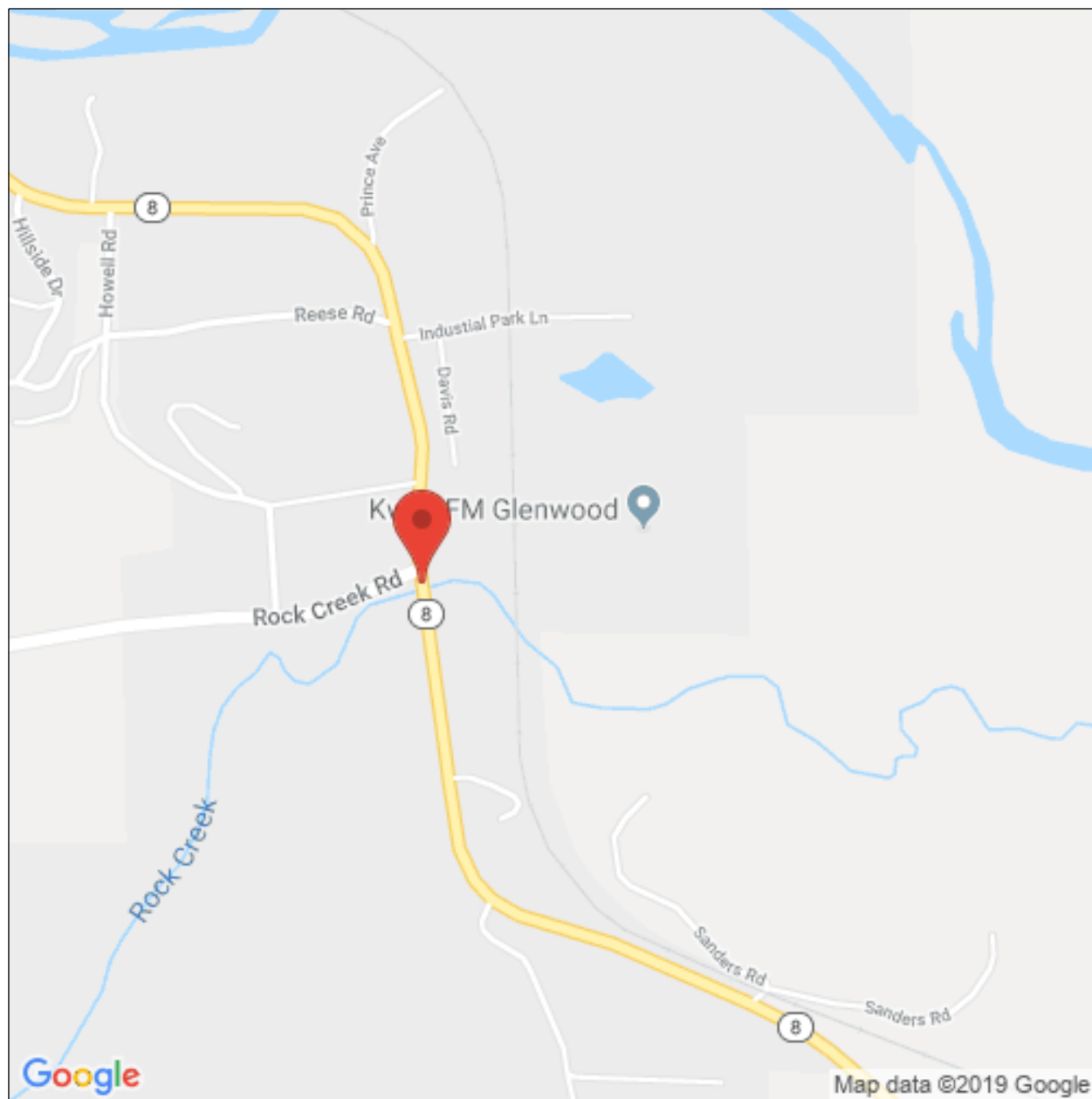
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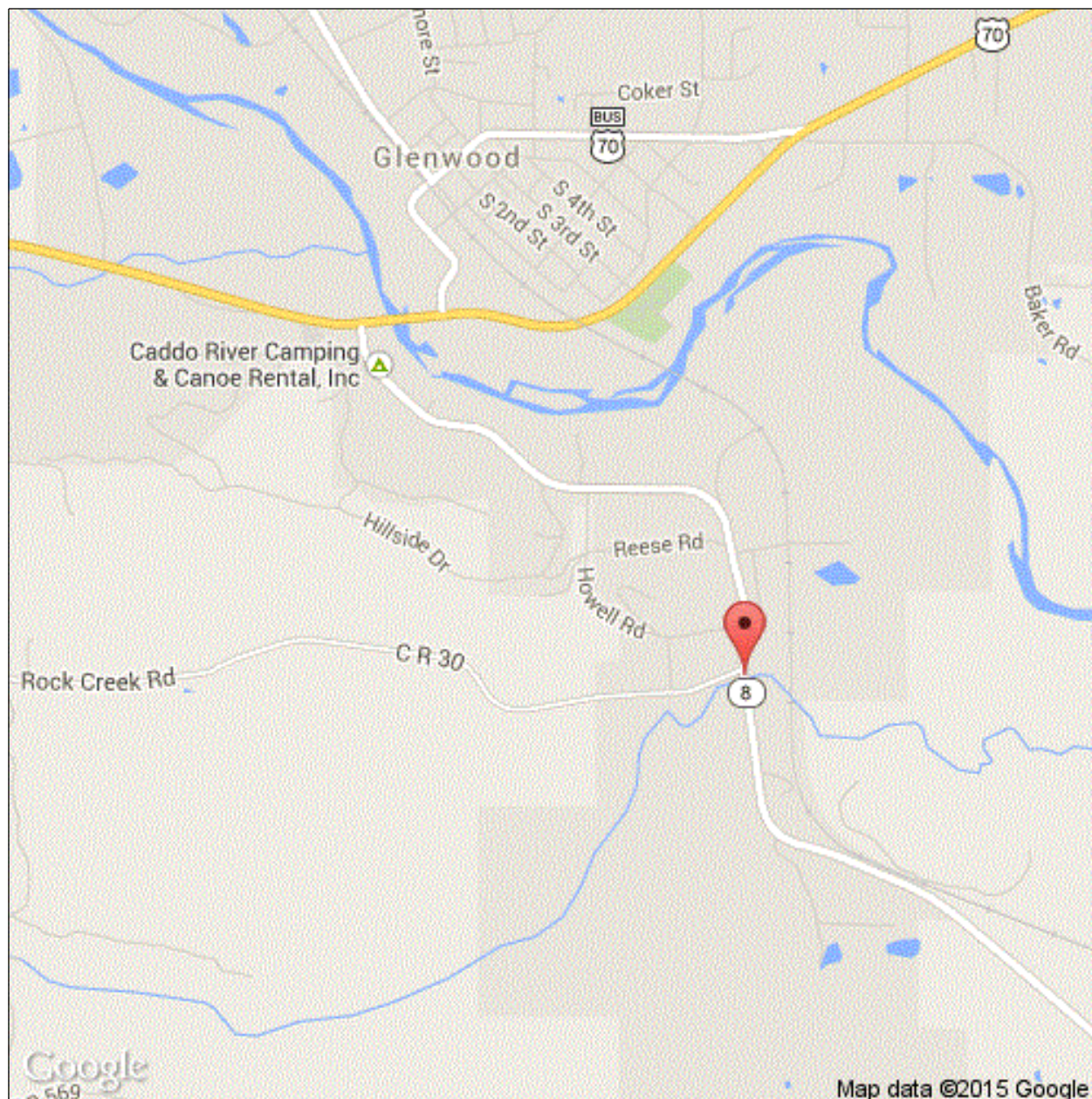
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Executive Summary

USGS SURVEY MARKER BEGIN BRIDGE RT WING,END BRIDGE RT AND LT WING

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National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	03/19/2019
(8) STRUCTURE NUMBER	M3614	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 8 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	03	(3) COUNTY CODE	109
(4) PLACE CODE	26600	A. FRACTURE CRITICAL DETAIL	N
(6) FEATURES INTERSECTED	ROCK CREEK	B. UNDERWATER INSPECTION	N
(7) FACILITY CARRIED	S.H 8 SEC. 04-1.39	C. OTHER SPECIAL	N
(9) LOCATION	1.39 M S JCT US 70		
(11) MILEPOINT	1.39	(12) BASE HIGHWAY NETWORK	1
(13A) LRS INVENTORY ROUTE	0000008040	(13B) SUBROUTE NUMBER	08
(16) LATITUDE	34.30995	(17) LONGITUDE	-93.53899
(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:	1 - Concrete	(59) SUPERSTRUCTURE	6
B) TYPE OF DESIGN/CONSTR:	22 - Channel Beam	(60) SUBSTRUCTURE	6
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	7
A) KIND OF MATERIAL/DESIGN:	0 - Other	(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR:	00 - Other		
(45) NUMBER OF SPANS IN MAIN	5	(46) NUMBER OF APPROACH	0
(107) DECK STRUCTURE TYPE	2	(108A) WEARING SURFACE	1
(108B) DECK MEMBRANE	0	(108C) DECK PROTECTION	0
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1973	(106) YEAR RECONSTRUCTED	0000
(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	45
(29) AVERAGE DAILY TRAFFIC	2900	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(66) INVENTORY RATING	27
(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.)	31	(49) STRUCTURE LENGTH (ft.)	131
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 1 RIGHT 1	(67) STRUCTURAL EVALUATION	6
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	26.2	(68) DECK GEOMETRY	3
(52) DECK WIDTH, OUT-TO-OUT (ft.)	28.2	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(32) APPROACH ROADWAY WIDTH (ft.)	23.0	(71) WATERWAY ADEQUACY	6
(33) BRIDGE MEDIAN	0	(34) SKEW (DEG.)	0
(35) STRUCTURE FLARED	0	(10) INV RTE, MIN VERT CLEAR (ft.)	99.99
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	27.2	(72) APPROACH ROADWAY ALIGNMENT	8
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	(36) TRAFFIC SAFETY FEATURE	
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	36A) BRIDGE RAILINGS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	36B) TRANSITIONS:	1
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	36C) APPROACH GUARDRAIL:	1
		36D) APPROACH GUARDRAIL ENDS:	1
		(113) SCOUR CRITICAL BRIDGES	5
		SUFFICIENCY RATING	69.1
		STATUS	2
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	31	(75B) WORK DONE BY	1
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	160	(112) NBIS BRIDGE LENGTH	Y
(94) BRIDGE IMPROVEMENT COST (\$)	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(95) ROADWAY IMPROVEMENT COST (\$)	156	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	06
(96) TOTAL PROJECT COST	523	(100) STRAHNET HIGHWAY DESIGNATION	0
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2003	(101) PARALLEL STRUCTURE DESIGNATION	N
(114) FUTURE ADT	3260	(102) DIRECTION OF TRAFFIC	2
(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
12 - Reinforced Concrete Deck	1- Ben.	3694	sq. ft.	3550	0	144	0
	1080= 2' x 1' x 3" spall with wire mat exposed in top of deck at unit #5, span # 4 over bent # 4. 1090= wire mat is exposed with no section loss. Spalls in joints with metal showing joints #2,#3,#4 and old patch work crack in the center of bridge and also in grout lines are cracked						
1080 - Delamination/Spall/Patched Area		114		0	0	114	0
1090 - Exposed Rebar		30		0	0	30	0
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	1179	ft.	1054	45	80	0
	Efflorescence under Spans #1 and #5						
1080 - Delamination/Spall/Patched Area		10		0	10	0	0
1090 - Exposed Rebar		80		0	0	80	0
1120 - Efflorescence/Rust Staining		35		0	35	0	0
205 - Reinforced Concrete Column	1- Ben.	6	each	6	0	0	0
215 - Reinforced Concrete Abutment	1- Ben.	71	ft.	57	2	12	0
	6 foot of cap has a 3 inch deep spall and delam at bent #1 under unit #6 & #7; see photo 2015.						
1080 - Delamination/Spall/Patched Area		12		0	0	12	0
1130 - Cracking (RC and Other)		2		0	2	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	86	ft.	77	9	0	0
	1080 / 1130 = small spalls on interior caps at various locations. 1130/= 5' of cracks on bent 5 cap						
1080 - Delamination/Spall/Patched Area		2		0	2	0	0
1130 - Cracking (RC and Other)		7		0	7	0	0
333 - Other Bridge Railing	1- Ben.	262	ft.	262	0	0	0

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Pictures

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Bridge Inspection Report

Sketches

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Bridge Inspection Report

Maintenance Needs

Date Reported: 03/19/2019

Priority: C - Important

Work Code:

Deficiency Description:

Joint #4 Spall joints #2,#3,#4 have spalls with metal exposed

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Deck photo end of bridge

Stage: Open



PHOTO 2 Description Joint 3 patch unsound

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Maintenance Needs

Stage: Open



PHOTO 3 Description Joint #4 Spall joints #2,#3,#4 have spalls with metal exposed

Stage: Open



PHOTO 5 Description Spall at joint #5 corners of units are spalled at joints 2 and 3

Stage: Open



PHOTO 4 Description Center of bridge at joint #3

Stage: Open



PHOTO 6 Description Joint #3

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Bridge Inspection Report

Maintenance Needs

Stage: Open



PHOTO 7 Description Joint #2

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Maintenance Needs

Date Reported: 03/19/2019

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Spall Bent #5 left side on cap

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Spall Bent #5 left side on cap