

Bridge Inspection Report

03219

**SH 56 IZARD COUNTY
over
STRAWBERRY RIVER**



Inspection Date:

Inspected By:

Inspection Type(s):

TABLE OF CONTENTS

	PAGE NUMBER
LOCATION MAP	3
NATIONAL BRIDGE INVENTORY	9
ELEMENTS	11
PICTURES	14
SKETCHES	16

Inspector:

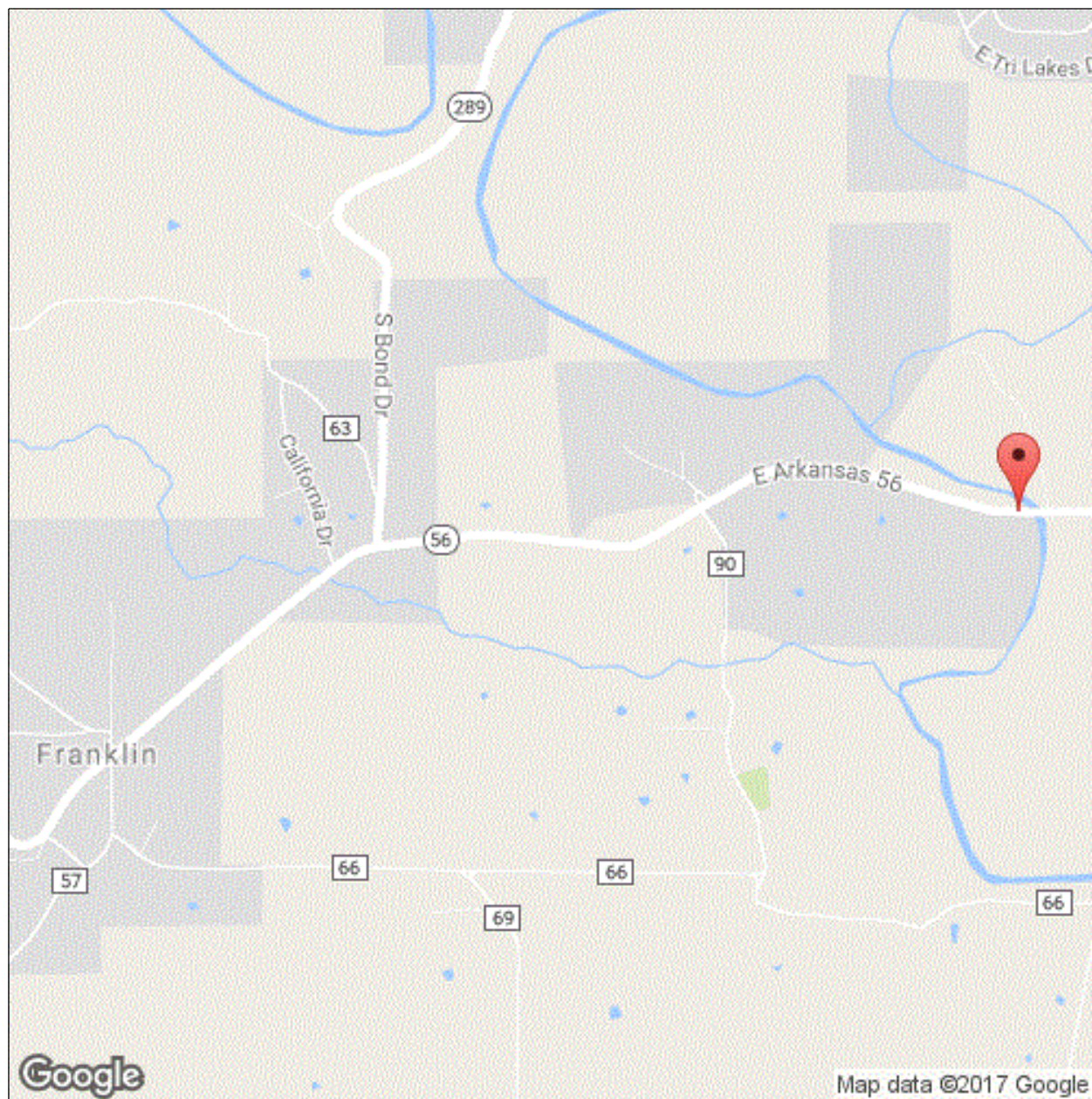
Structure Number: 03219

Inspection Date:

Facility Carried: SH 56 IZARD COUNTY

Bridge Inspection Report

Location Map



Latitude: 36.178038235211375

Longitude: -91.73952993684344

Inspector:

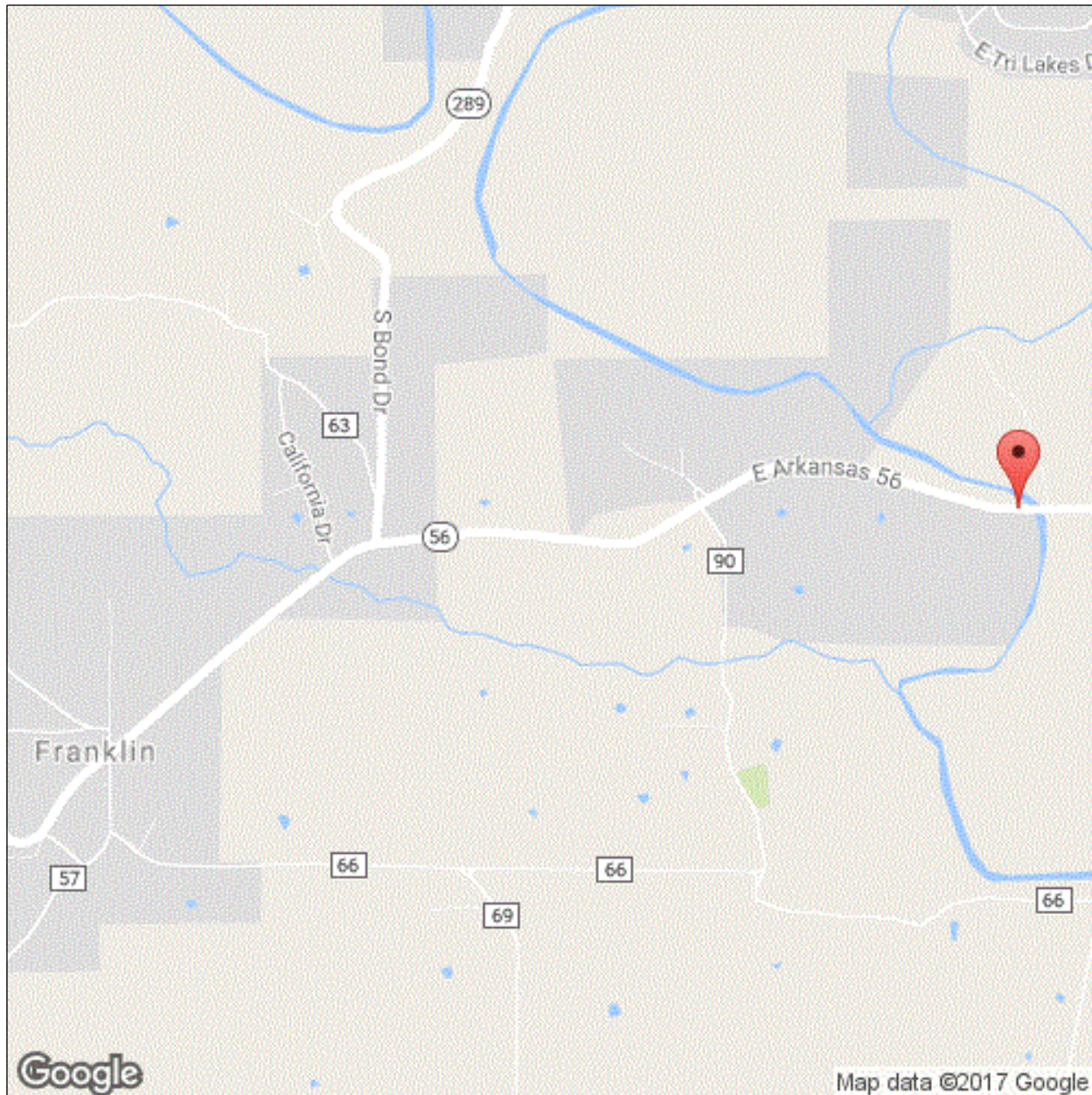
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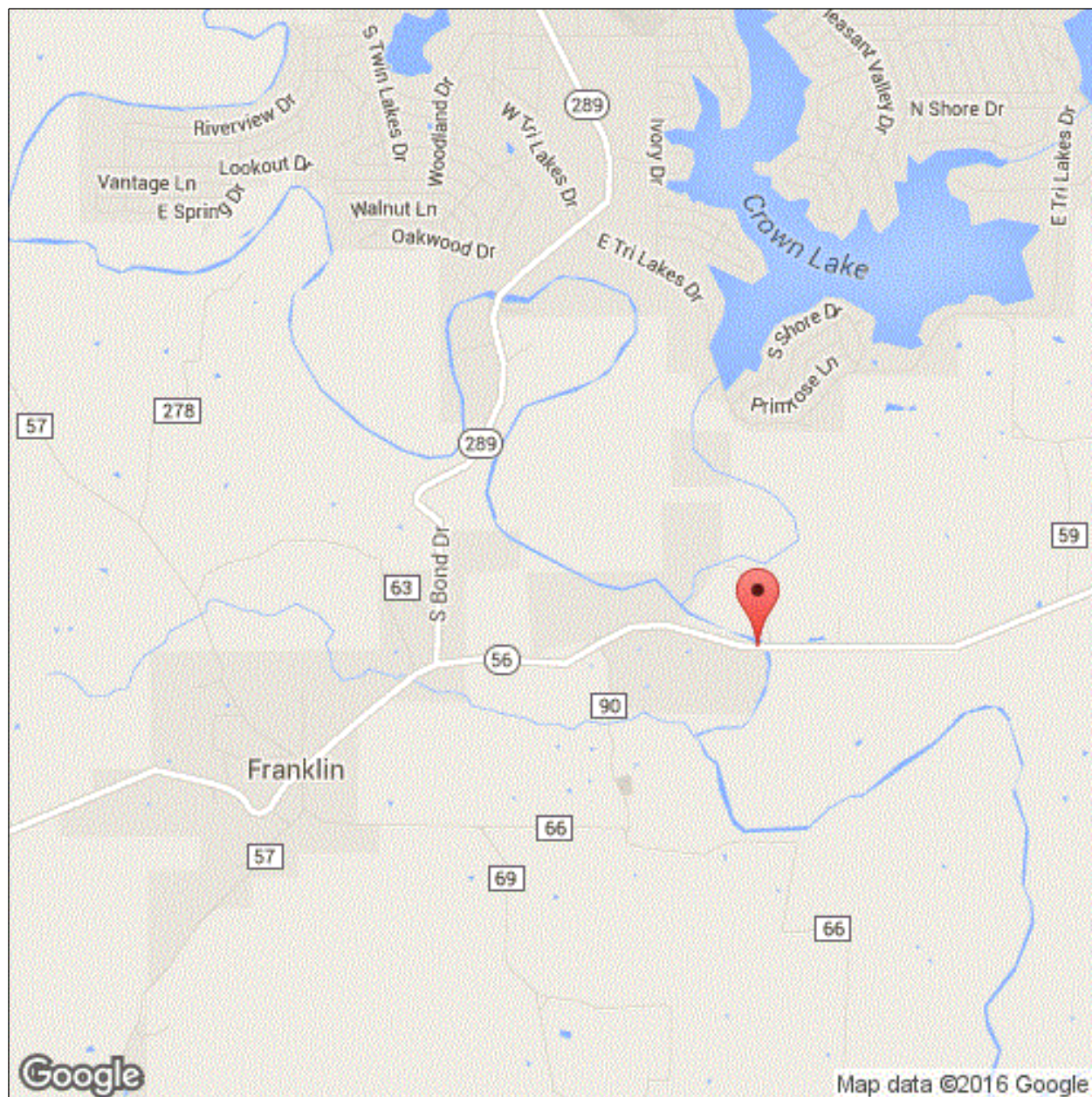
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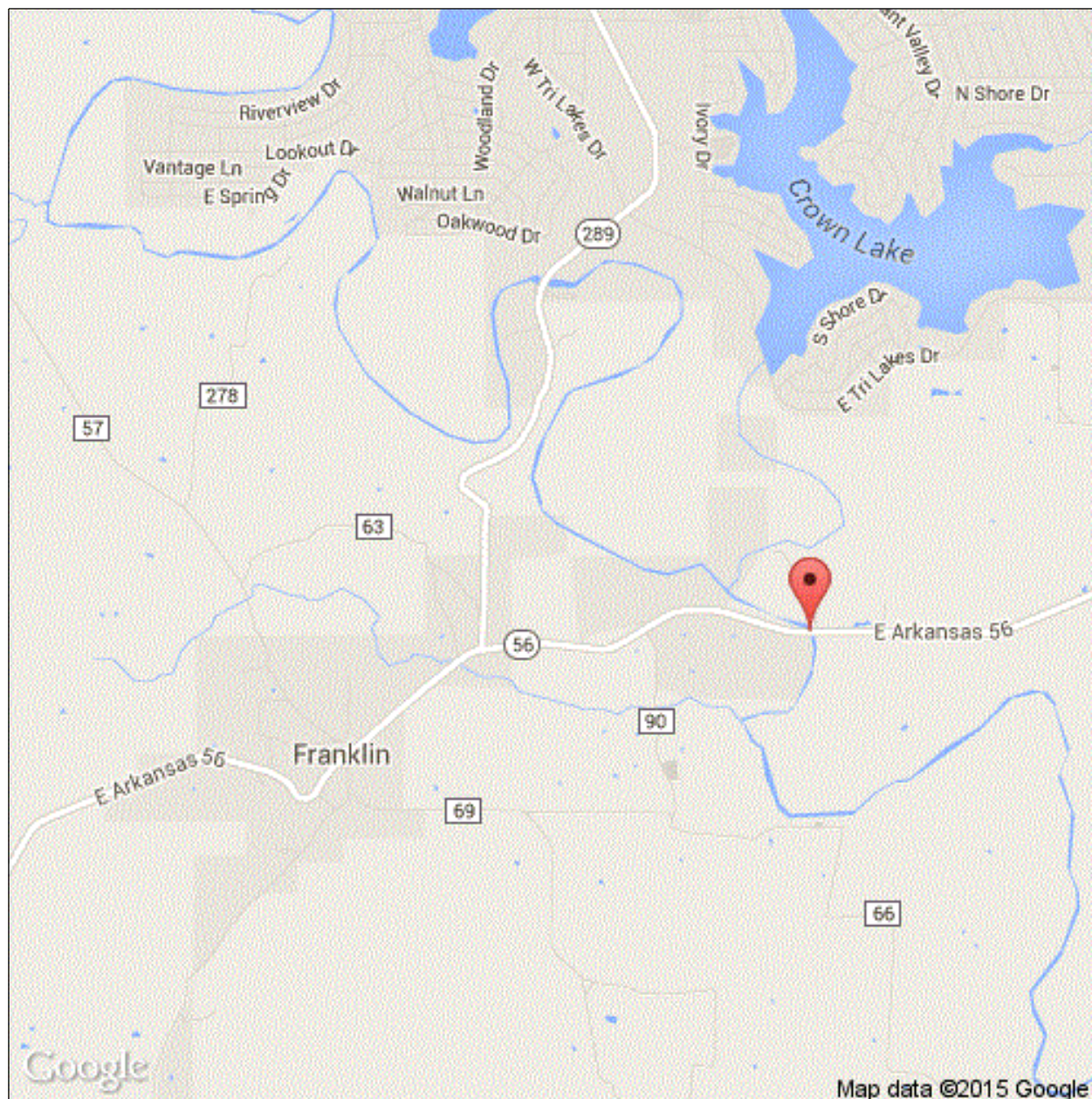
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Bridge Inspection Report

Executive Summary

Log Mile running East.
Job #5828

Inspector:

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	06/19/2019
(8) STRUCTURE NUMBER	03219	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 56 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	05 (3) COUNTY CODE 065	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	STRAWBERRY RIVER	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 56 IZARD COUNTY		
(9) LOCATION	1.4 MI E JCT SH 289 N		
(11) MILEPOINT 11.907	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000056020 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 36.17803823521137	(17) LONGITUDE -91.73952993684344		
(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	5
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(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	6 (46) NUMBER OF APPROACH		
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE		
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION		
	0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1959 (106) YEAR RECONSTRUCTED	(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	35
(29) AVERAGE DAILY TRAFFIC	920 (19) BYPASS DETOUR LENGTH	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(66) INVENTORY RATING	21
(109) AVERAGE DAILY TRUCK TRAFFIC	1	(70) BRIDGE POSTING	2
		(41) STRUCTURE OPEN/POSTED/CLOSED	P
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	65 (49) STRUCTURE LENGTH (ft.)	(67) STRUCTURAL EVALUATION	5
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 1 RIGHT 1	(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.)	28.5	(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.)	22.0	(72) APPROACH ROADWAY ALIGNMENT	6
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	36A) BRIDGE RAILINGS:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	25.9	36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	36D) APPROACH GUARDRAIL ENDS:	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(113) SCOUR CRITICAL BRIDGES	5
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	SUFFICIENCY RATING	51.3 STATUS 0
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	35 (75B) WORK DONE BY	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	332.0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	06
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	424	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2003	(102) DIRECTION OF TRAFFIC	2
		(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

Inspector:

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Bridge Inspection Report

National Bridge Inventory

(114) FUTURE ADT 1427

(115) YEAR OF FUTURE ADT 2028

(40) NAV HORIZONTAL CLEARANCE (ft.) 0

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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.	8410	sq. ft.	0	7919	491	0
	Transverse efflorescent cracks to soffit @ all spans. Spalls with rebar exposed to Left & Right overhangs. See Form III.						
1080 - Delamination/Spall/Patched Area		1722		0	1405	317	0
1090 - Exposed Rebar		32		0	0	32	0
1120 - Efflorescence/Rust Staining		146		0	124	22	0
1130 - Cracking (RC and Other)		2181		0	2061	120	0
1190 - Abrasion/Wear (PSC/RC)		4329		0	4329	0	0
107 - Steel Open Girder/Beam	1- Ben.	1650	ft.	1492	103	55	0
	Ends of Girders 1 & 5 have out of plane bending @ several spans. (See Form III) Girder ends have been cleaned and painted in the past, but section loss still exists. Girder ends have some active corrosion at web below haunch.						
1000 - Corrosion		145		0	90	55	0
1900 - Distortion		13		0	13	0	0
515 - Steel Protective Coating		11903	sq. ft.	10503	0	1000	400
3440 - Effectiveness (Steel Protective Coatings)		1400		0	0	1000	400
205 - Reinforced Concrete Column	1- Ben.	4	each	1	0	3	0
	Column 2 @ Bent 4 has vertical cracks with rust stains and spalls with rebar exposed.						
1080 - Delamination/Spall/Patched Area		1		0	0	1	0
1090 - Exposed Rebar		2		0	0	2	0
210 - Reinforced Concrete Pier Wall	1- Ben.	89	ft.	61	15	13	0
	Cracking to Pier walls with some having efflorescence. Spalls with rebar exposed to Pier walls @ Bents 4 & 5.						
1090 - Exposed Rebar		13		0	0	13	0
1120 - Efflorescence/Rust Staining		6		0	6	0	0
1130 - Cracking (RC and Other)		9		0	9	0	0
215 - Reinforced Concrete Abutment	1- Ben.	65	ft.	63	0	2	0
	Abutment has rotated ahead & closed the joint at Abutment 1 & Bents 1 & 2. SEE FORM III						
1090 - Exposed Rebar		1		0	0	1	0
1130 - Cracking (RC and Other)		1		0	0	1	0
220 - Reinforced Concrete Pile Cap/Footing	1- Ben.	112	ft.	87	0	25	0
	Scour to footings @ Bents 2 & 3.						
6000 - Scour		25		0	0	25	0

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Bridge Inspection Report

Element Inspection

225 - Steel Pile	1- Ben.	15	each	0	0	15	0
Several steel piles have section loss. (see form III) Several piles have welded plates to repair section loss. Piles have areas of rust & section loss at ground level and at the top.							
1000 - Corrosion		15		0	0	15	0
515 - Steel Protective Coating		1260	sq. ft.	630	0	0	630
3440 - Effectiveness (Steel Protective Coatings)		630		0	0	0	630
234 - Reinforced Concrete Pier Cap	1- Ben.	126	ft.	77	37	12	0
Spall with 3" of rebar exposed to bottom of cap @ Bent 1. Spall with 1.5' of rebar exposed to ahead side of cap @ Bent 2. 1/8" full height vertical crack to back & ahead face of cap @ Bent 3. Spalls with 1.5' rebar exposed to cap @ Bent 4. Deep spalls with rebar exposed to Left & Right ends of cap @ Bent 5.							
1080 - Delamination/Spall/Patched Area		25		0	25	0	0
1090 - Exposed Rebar		11		0	0	11	0
1120 - Efflorescence/Rust Staining		1		0	0	1	0
1130 - Cracking (RC and Other)		12		0	12	0	0
301 - Pourable Joint Seal	1- Ben.	24	ft.	0	0	24	0
Pourable joint seal is cracked @ Abutment 1.							
2340 - Seal Cracking		24		0	0	24	0
304 - Open Expansion Joint	1- Ben.	48	ft.	0	48	0	0
Areas of delamination & spalls along road iron @ Abutment 1 & Bents 1 & 2.							
2360 - Adjacent Deck or Header		48		0	48	0	0
305 - Assembly Joint without Seal	1- Ben.	96	ft.	0	96	0	0
2360 - Adjacent Deck or Header		96		0	96	0	0
311 - Movable Bearing	1- Ben.	30	each	0	0	30	0
Bearings & anchor bolts have heavy rust, pack rust & section loss. (See Form III)							
1000 - Corrosion		18		0	0	18	0
1020 - Connection		2		0	0	2	0
2220 - Alignment		10		0	0	10	0
515 - Steel Protective Coating		45	sq. ft.	15	0	0	30
3440 - Effectiveness (Steel Protective Coatings)		30		0	0	0	30
313 - Fixed Bearing	1- Ben.	30	each	0	27	3	0
Bearings & anchor bolts have heavy rust, pack rust & section loss. (See Form III)							
1000 - Corrosion		30		0	27	3	0
515 - Steel Protective Coating		45	sq. ft.	9	10	20	6
3440 - Effectiveness (Steel Protective Coatings)		36		0	10	20	6
330 - Metal Bridge Railing	1- Ben.	664	ft.	639	25	0	0
2 post broken loose @ bottom on Left & Right sides @ Span 5. Light rust throughout. Damage to Right bridge rail @ Span 4.							

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Bridge Inspection Report

Element Inspection

7000 - Damage		25		0	25	0	0
515 - Steel Protective Coating		1992	sq. ft.	0	1992	0	0

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Bridge Inspection Report

Pictures

PHOTO 1

Description

PHOTO 1

Description

Inspector:

Inspection Date:

Structure Number: 03219

Facility Carried: SH 56 IZARD COUNTY

Bridge Inspection Report

Pictures

PHOTO 2

Description

PHOTO 3

Description

Inspector:

Inspection Date:

Structure Number: 03219

Facility Carried: SH 56 IZARD COUNTY

Bridge Inspection Report

Sketches

Inspector:

Structure Number: 03219

Inspection Date:

Facility Carried: SH 56 Izard County

Bridge Inspection Report

Maintenance Needs

Date Reported: 06/23/2015

Priority: C - Important

Work Code: Repair

Deficiency Description:

Rust, pack rust, and heavy section loss to bearings and anchor bolts at all spans. Some anchor bolts and/or nuts missing.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Rust, pack rust, and heavy section loss to bearings and anchor bolts at all spans. Some anchor bolts and/or nuts missing.

Stage: Assigned



PHOTO 2 Description Rust with section loss to moveable bearings

Inspector:

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Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 06/23/2015

Priority: C - Important

Work Code: Repair

Deficiency Description:

Ends of Girders 1 and 5 have heavy section loss to webs with out of plane bending (3/8" - 5/8") at several spans.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Ends of Girders 1 and 5 have heavy section loss to webs with out of plane bending (3/8" - 5/8") at several spans.

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 06/23/2015

Priority: C - Important

Work Code: Repair

Deficiency Description:

1/8" crack to cap over Pile 2 at Bent 3.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description 1/8" crack to cap over Pile 2 at Bent 3.

Inspector:

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Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 06/23/2015

Priority: D - Routine

Work Code: Repair

Deficiency Description:

Ends of girders have areas of pitting and section loss at Spans 1 - 6.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Ends of girders have areas of pitting and section loss at spans 1 - 6.

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 06/23/2015

Priority: D - Routine

Work Code: Repair

Deficiency Description:

Piles 1 - 5 at Bents 1, 2, & 3 have pitting and section loss to piles.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Piles 1 - 5 at Bents 1, 2, & 3 have pitting and section loss to piles.

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 06/23/2015

Priority: D - Routine

Work Code: Repair

Deficiency Description:

Scour to Bents 2 & 3.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Scour at ahead side of Bent #2

Stage: Open



PHOTO 2 Description Scour to left end of Bent #3

Inspector:

Structure Number: 03219

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Bridge Inspection Report

Maintenance Needs

Date Reported: 06/07/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Several unsealed cracks to deck.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Several unsealed cracks to deck.

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 06/19/2019

Priority: C - Important

Work Code:

Deficiency Description:

Cover plate on deck is broken loose on right end of Bent 3.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Cover plate on deck is broken loose on right end of Bent 3.

Stage: Open



PHOTO 2 Description Cover plate on deck is broken loose on right end of Bent 3.