

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:

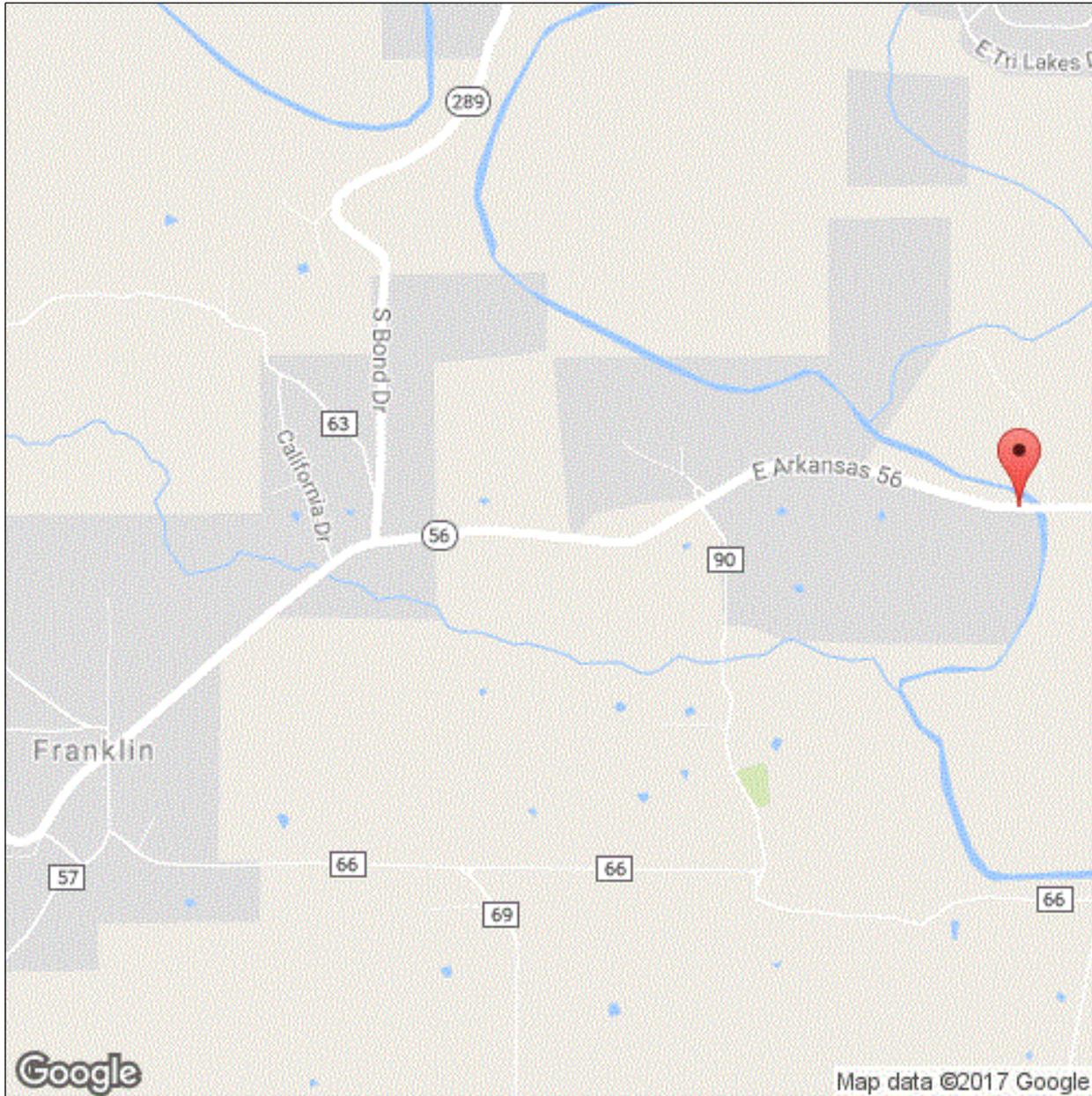
Structure Number: 03219

Inspection Date:

Facility Carried: SH 56 IZARD COUNTY

Bridge Inspection Report

Location Map



Latitude: 36.178038235211375

Longitude: -91.73952993684344

Inspector:

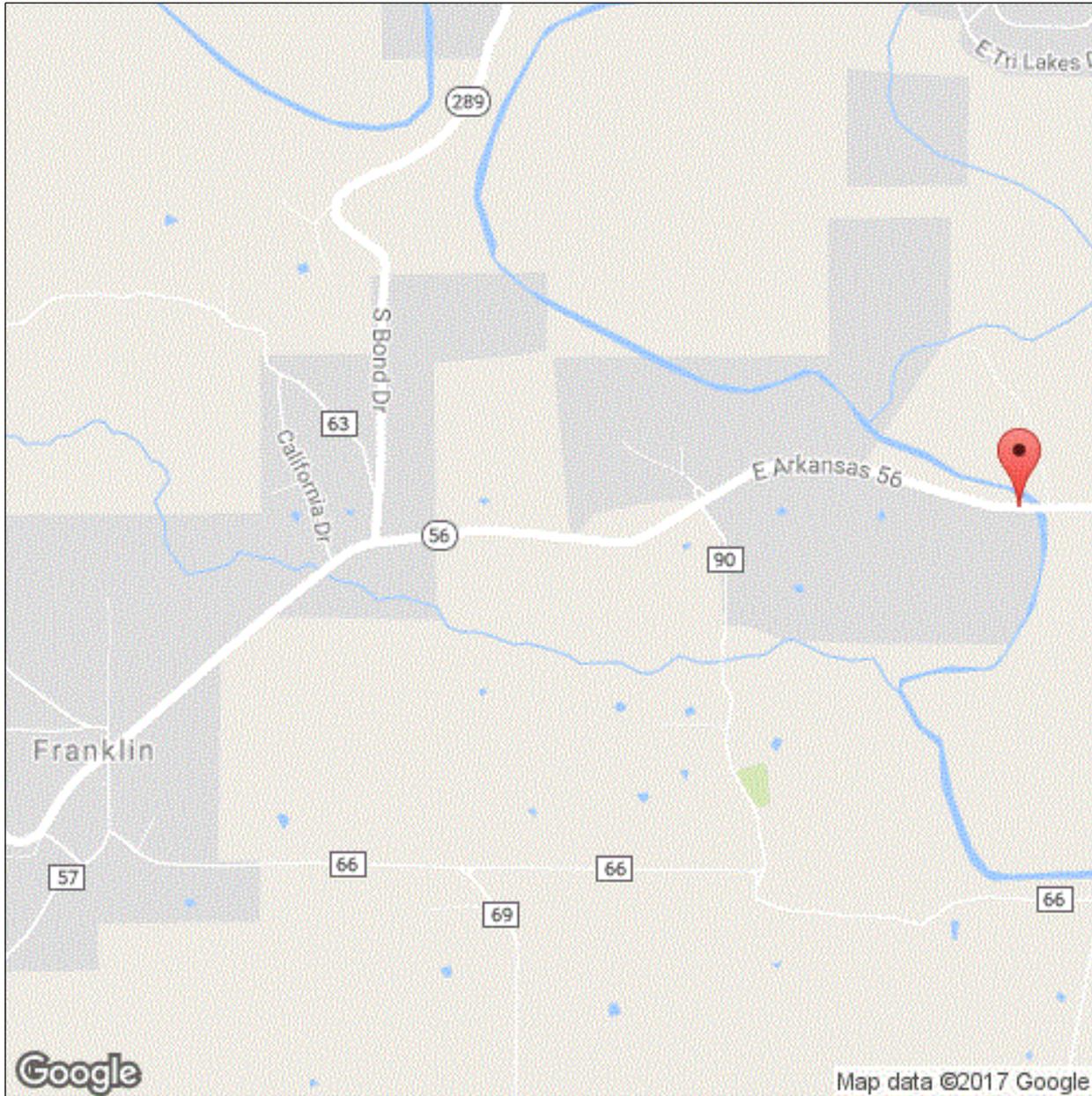
Structure Number: 03219

Inspection Date:

Facility Carried: SH 56 IZARD COUNTY

Bridge Inspection Report

Location Map



Latitude: 36.178038235211375

Longitude: -91.73952993684344

Inspector:

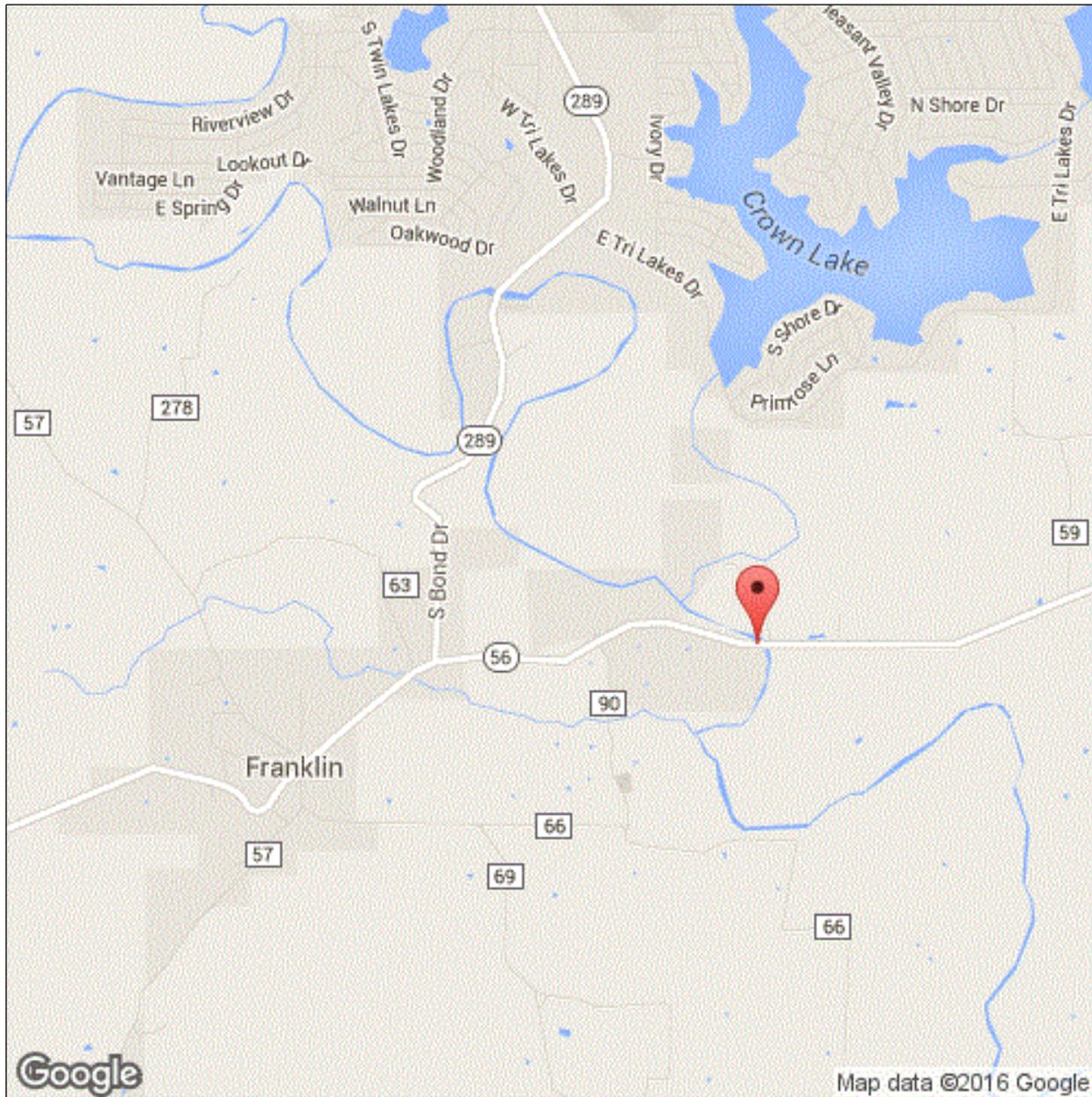
Structure Number: 03219

Inspection Date:

Facility Carried: SH 56 Izard County

Bridge Inspection Report

Location Map



Latitude: 36.178038235211375

Longitude: -91.73952993684344

Inspector:

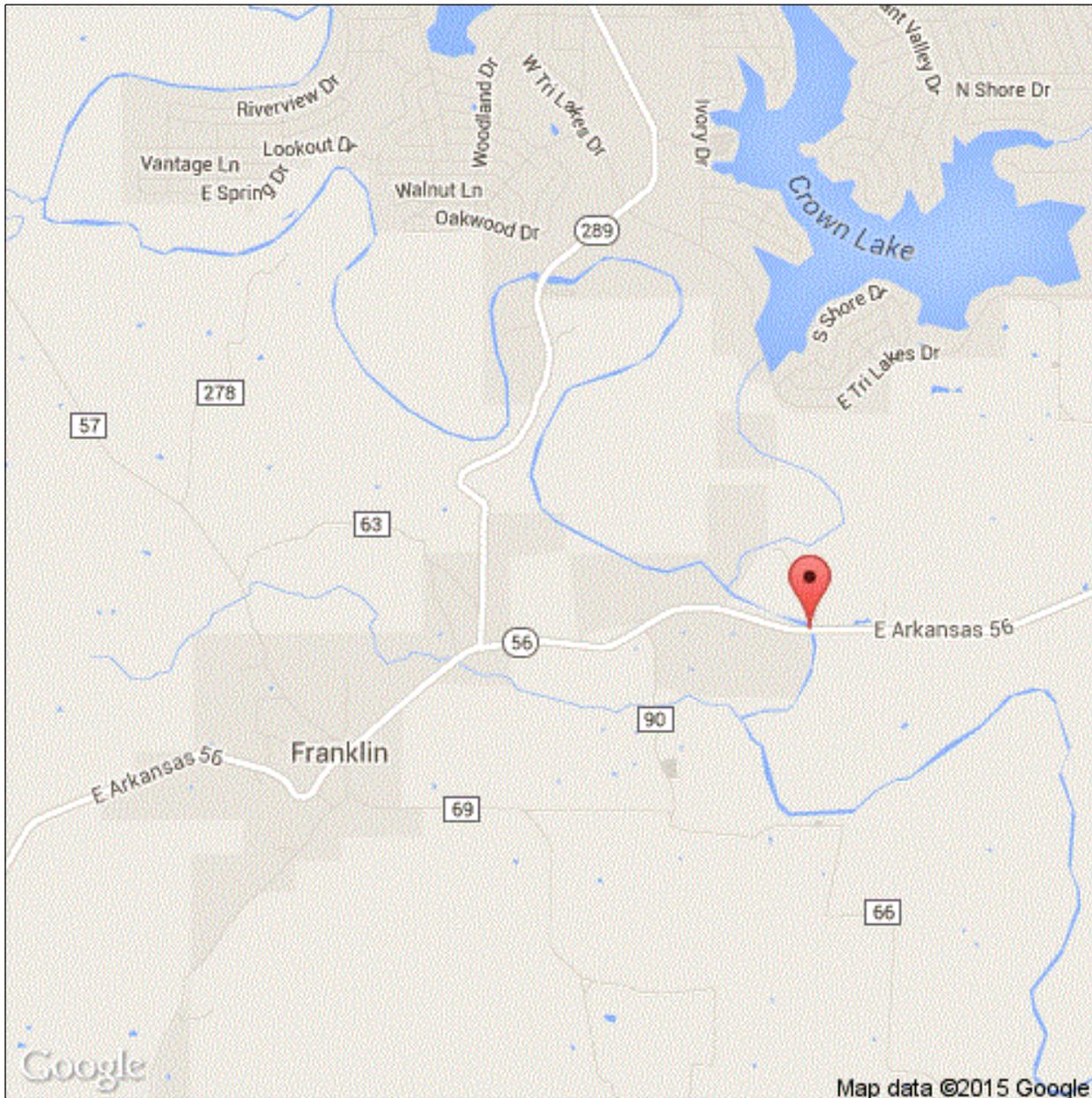
Structure Number: 03219

Inspection Date:

Facility Carried: SH 56 Izard County

Bridge Inspection Report

Location Map



Latitude: 36.178038235211375

Longitude: -91.73952993684344

Inspector:

Structure Number: 03219

Inspection Date:

Facility Carried: SH 56 IZARD COUNTY

Bridge Inspection Report

Executive Summary

Log Mile running East.
Job #5828

Inspector:

Structure Number: 03219

Inspection Date:

Facility Carried: SH 56 IZARD COUNTY

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			CONDITION			
(9) LOCATION	1.4 MI E JCT SH 289 N			(58) DECK	6		
(11) MILEPOINT 11.907	(12) BASE HIGHWAY NETWORK 1			(59) SUPERSTRUCTURE 5	(60) SUBSTRUCTURE 6		
(13A) LRS INVENTORY ROUTE	0000056020 (13B) SUBROUTE NUMBER 00			(61) CHANNEL & CHANNEL PROTECTION	7 (62) CULVERT N		
(16) LATITUDE 36.178038235211375	(17) LONGITUDE -91.73952993684344			LOAD RATING AND POSTING			
(98A) BORDER BRIDGE CODE				(31) DESIGN LOAD	2		
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT			(63) METHOD USED TO DETERMINE OPERATING RATING	1		
STRUCTURE TYPE AND MATERIAL				(64) OPERATING RATING	35		
(43) STRUCTURE TYPE, MAIN				(65) METHOD USED TO DETERMINE INVENTORY RATING	1		
A) KIND OF MATERIAL/DESIGN:	3 - Steel			(66) INVENTORY RATING	21		
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder			(70) BRIDGE POSTING	2		
(44) STRUCTURE TYPE, APPROACH SPANS				(41) STRUCTURE OPEN/POSTED/CLOSED	P		
A) KIND OF MATERIAL/DESIGN:	0 - Other			APPRAISAL			
B) TYPE OF DESIGN/CONSTR:	00 - Other			(67) STRUCTURAL EVALUATION	5		
(45) NUMBER OF SPANS IN MAIN	6	(46) NUMBER OF APPROACH	0	(68) DECK GEOMETRY	4		
(107) DECK STRUCTURE TYPE	1	(108A) WEARING SURFACE	1	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N		
(108B) DECK MEMBRANE	0	(108C) DECK PROTECTION	0	(71) WATERWAY ADEQUACY	8		
AGE OF SERVICE				(72) APPROACH ROADWAY ALIGNMENT	6		
(27) YEAR BUILT	1959	(106) YEAR RECONSTRUCTED	0000	(36) TRAFFIC SAFETY FEATURE			
(42) TYPE OF SERVICE	ON 1	UNDER	5	36A) BRIDGE RAILINGS:	0		
(28) LANES	ON 02	UNDER	00	36B) TRANSITIONS:	0		
(29) AVERAGE DAILY TRAFFIC	920	(19) BYPASS DETOUR LENGTH	12	36C) APPROACH GUARDRAIL:	0		
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014			36D) APPROACH GUARDRAIL ENDS:	0		
(109) AVERAGE DAILY TRUCK TRAFFIC	1			(113) SCOUR CRITICAL BRIDGES	5		
GEOMETRIC DATA				SUFFICIENCY RATING	51.3	STATUS	0
(48) LENGTH OF MAX SPAN (ft.)	65	(49) STRUCTURE LENGTH (ft.)	332	CLASSIFICATION			
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 1	RIGHT	1	(112) NBIS BRIDGE LENGTH	Y		
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	24.0			(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0		
(52) DECK WIDTH, OUT-TO-OUT (ft.)	28.5			(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	06		
(32) APPROACH ROADWAY WIDTH (ft.)	22.0			(100) STRAHNET HIGHWAY DESIGNATION	0		
(33) BRIDGE MEDIAN	0	(34) SKEW (DEG.)	0	(101) PARALLEL STRUCTURE DESIGNATION	N		
(35) STRUCTURE FLARED	0	(10) INV RTE, MIN VERT CLEAR (ft.)	99.99	(102) DIRECTION OF TRAFFIC	2		
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	25.9			(103) TEMP STRUCTURE			
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99			(105) FEDERAL LANDS HIGHWAYS	0		
(54) VERTICAL UNDER CLEARANCE (ft.)	N		0	(110) DESIGNATED NATIONAL NETWORK	0		
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N		99.9	(20) TOLL	3		
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0			(21) MAINTENANCE RESPONSIBILITY	01		
PROPOSED IMPROVEMENTS				(22) OWNER	01		
(75A) TYPE OF WORK PROPOSED	35	(75B) WORK DONE BY	1	(37) HISTORICAL	5		
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	332.0			NAVIGATION DATA			
(94) BRIDGE IMPROVEMENT COST (\$)	0			(38) NAVIGATION CONTROL	0		
(95) ROADWAY IMPROVEMENT COST (\$)	0			(111) PIER OR ABUTMENT PROTECTION	1		
(96) TOTAL PROJECT COST	424			(39) NAV VERT CLEARANCE (ft.)	0		
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2003			(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0		

Inspector:

Structure Number: 03219

Inspection Date:

Facility Carried: SH 56 IZARD COUNTY

Bridge Inspection Report

National Bridge Inventory

(114) FUTURE ADT 1427

(115) YEAR OF FUTURE ADT 2028

(40) NAV HORIZONTAL CLEARANCE (ft.) 0

Inspector:

Structure Number: 03219

Inspection Date:

Facility Carried: SH 56 IZARD COUNTY

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

Inspector:

Structure Number: 03219

Inspection Date:

Facility Carried: SH 56 IZARD COUNTY

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.							

Inspector:

Structure Number: 03219

Inspection Date:

Facility Carried: SH 56 IZARD COUNTY

Bridge Inspection Report

Element Inspection

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

Inspector:

Inspection Date:

Structure Number: 03219

Facility Carried: SH 56 IZARD COUNTY

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:

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:

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:

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:

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:

Structure Number: 03219

Inspection Date:

Facility Carried: SH 56 IZARD COUNTY

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:

Structure Number: 03219

Inspection Date:

Facility Carried: SH 56 IZARD COUNTY

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:

Structure Number: 03219

Inspection Date:

Facility Carried: SH 56 IZARD COUNTY

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

Inspection Date:

Facility Carried: SH 56 IZARD COUNTY

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:

Structure Number: 03219

Inspection Date:

Facility Carried: SH 56 Izard County

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.