

# Bridge Inspection Report

**00813  
SH 105  
over  
Hector Creek**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

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Inspector:

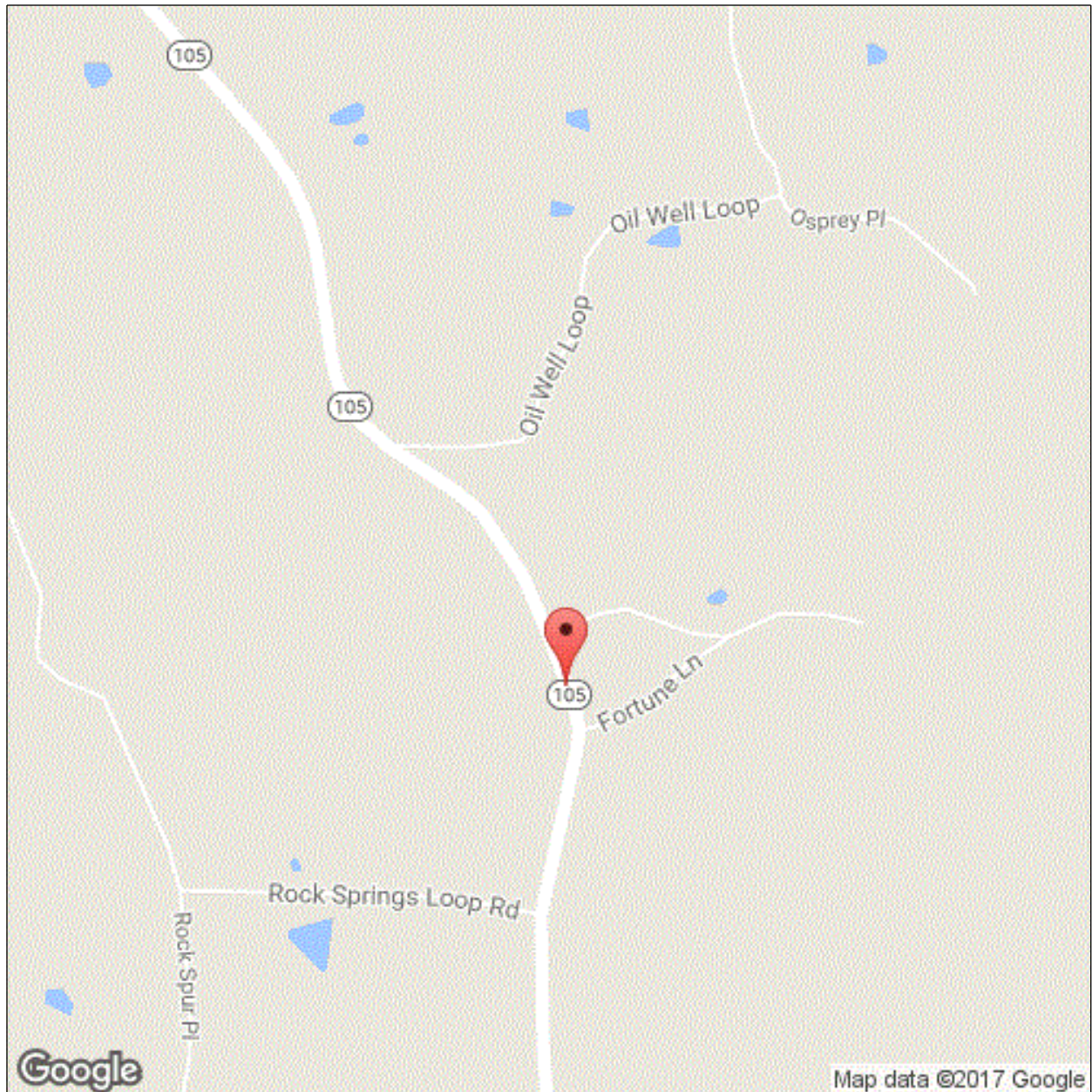
Structure Number: 00813

Inspection Date:

Facility Carried: SH 105

## Bridge Inspection Report

### Location Map



Latitude: 35.41689

Longitude: -92.96088



Inspector:

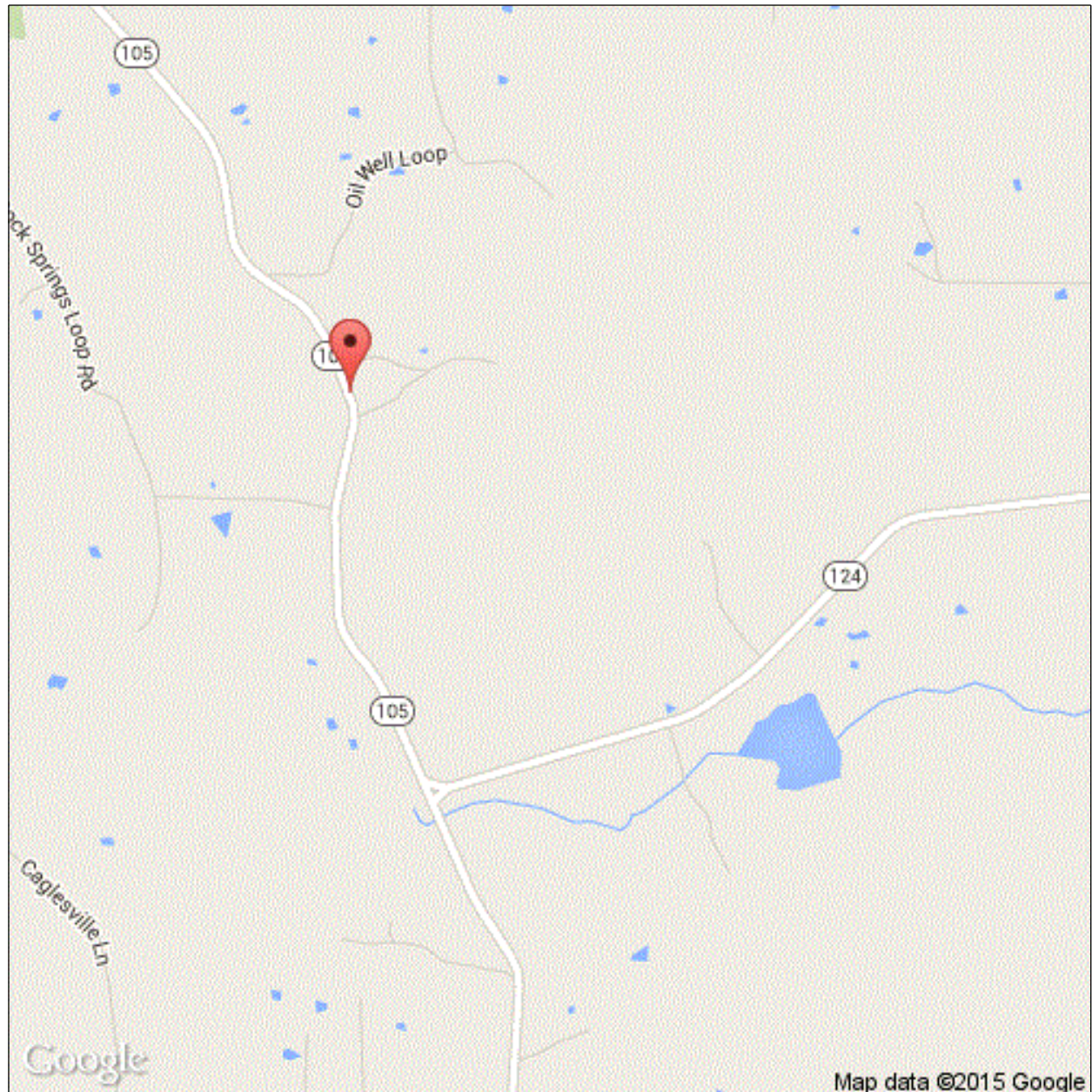
Structure Number: 00813

Inspection Date:

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## Bridge Inspection Report

### Location Map



Latitude: 35.41689

Longitude: -92.96088

Inspector:

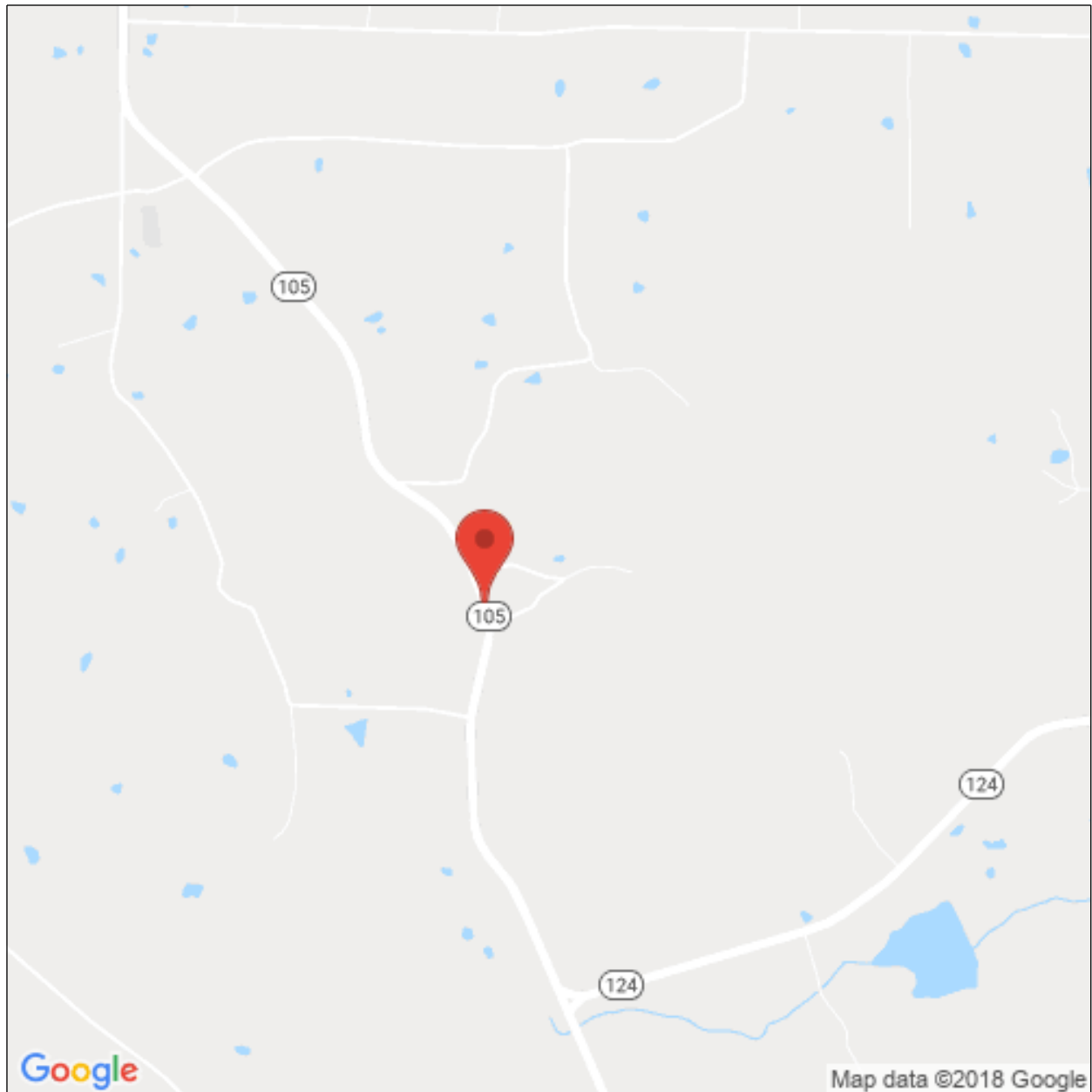
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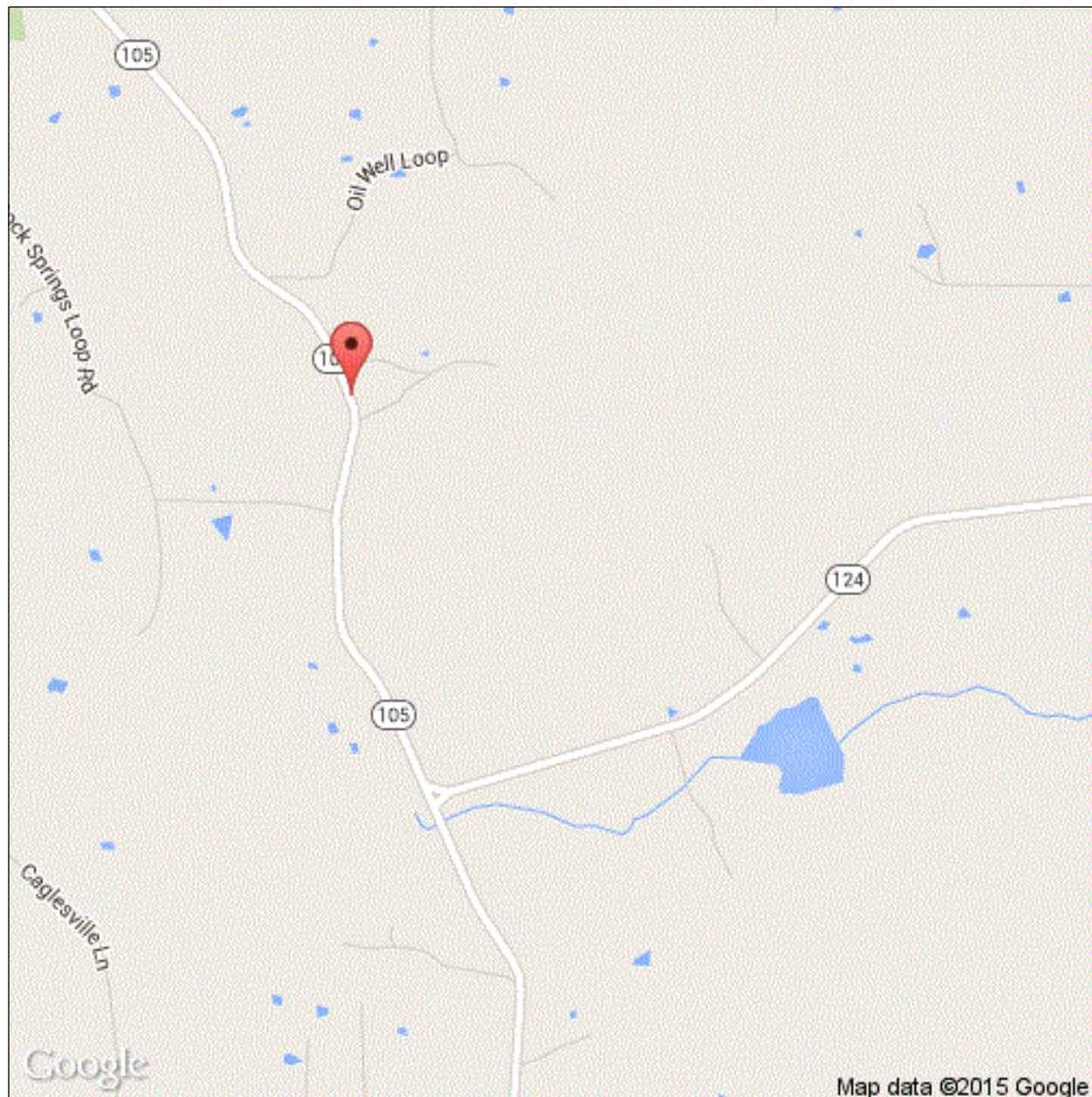
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Inspector:

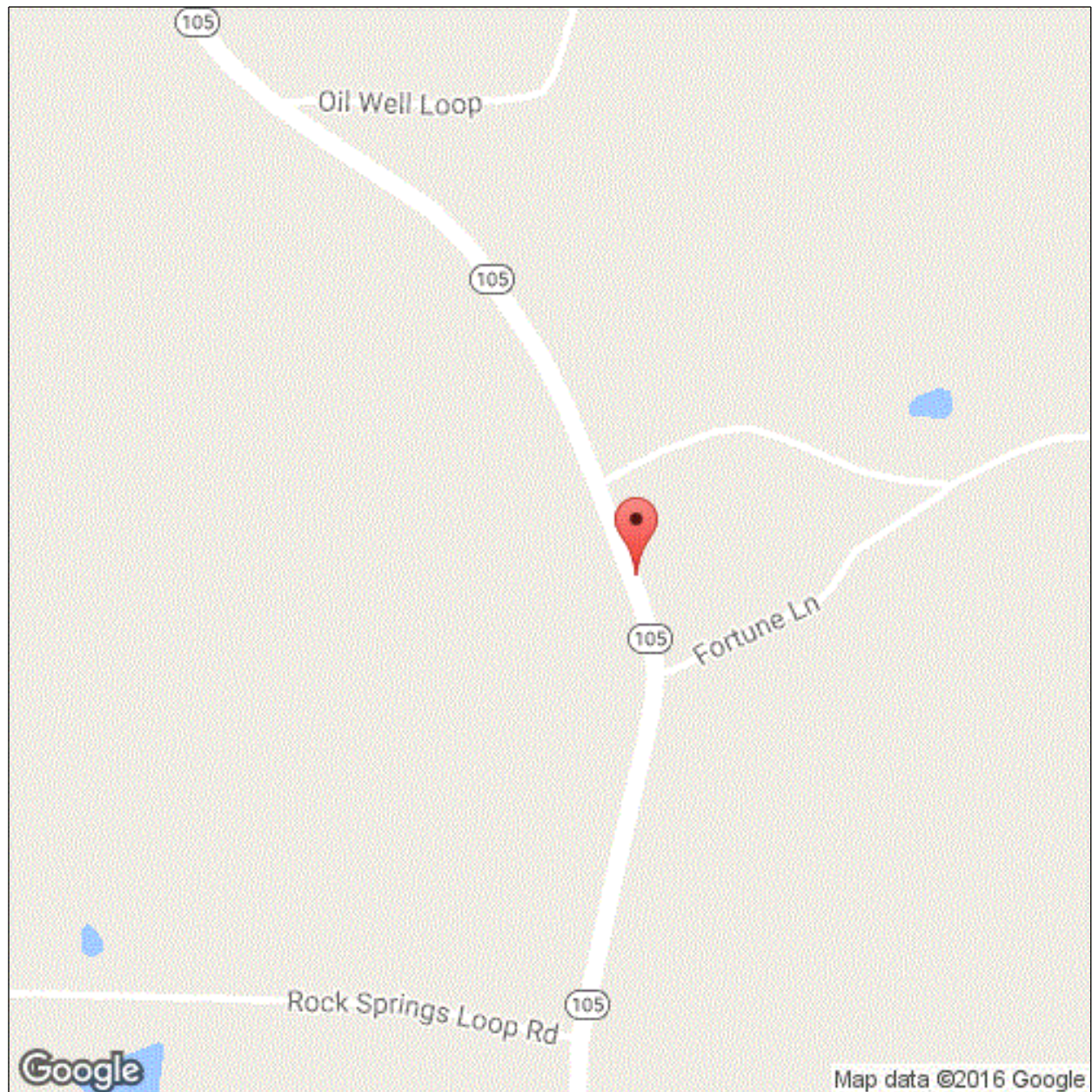
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**Inspector:**

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**Bridge Inspection Report**

**Executive Summary**

Inspector:

Structure Number: 00813

Inspection Date:

Facility Carried: SH 105

## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	08/01/2019
(8) STRUCTURE NUMBER	00813	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 105 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	08 (3) COUNTY CODE 115	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Hector Creek	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 105		
(9) LOCATION	2.61 M S Jct SH 27	CONDITION	
(11) MILEPOINT 2.609	(12) BASE HIGHWAY NETWORK 0	(58) DECK	6
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00	(59) SUPERSTRUCTURE	5 (60) SUBSTRUCTURE 7
(16) LATITUDE 35.41689	(17) LONGITUDE -92.96088	(61) CHANNEL & CHANNEL PROTECTION	7 (62) CULVERT N
(98A) BORDER BRIDGE CODE		LOAD RATING AND POSTING	
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT	(31) DESIGN LOAD	2
		(63) METHOD USED TO DETERMINE OPERATING RATING	1
STRUCTURE TYPE AND MATERIAL		(64) OPERATING RATING	26
(43) STRUCTURE TYPE, MAIN		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
A) KIND OF MATERIAL/DESIGN:	1 - Concrete	(66) INVENTORY RATING	16
B) TYPE OF DESIGN/CONSTR:	11 - Arch - Deck	(70) BRIDGE POSTING	1
(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	4
(45) NUMBER OF SPANS IN MAIN	1 (46) NUMBER OF APPROACH	(68) DECK GEOMETRY	4
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION	(71) WATERWAY ADEQUACY	8
		(72) APPROACH ROADWAY ALIGNMENT	5
AGE OF SERVICE		(36) TRAFFIC SAFETY FEATURE	
(27) YEAR BUILT	1928 (106) YEAR RECONSTRUCTED	36A) BRIDGE RAILINGS:	0
(42) TYPE OF SERVICE	ON 1 UNDER 5	36B) TRANSITIONS:	0
(28) LANES	ON 02 UNDER 00	36C) APPROACH GUARDRAIL:	0
(29) AVERAGE DAILY TRAFFIC	1900 (19) BYPASS DETOUR LENGTH	36D) APPROACH GUARDRAIL ENDS:	0
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(113) SCOUR CRITICAL BRIDGES	8
(109) AVERAGE DAILY TRUCK TRAFFIC	1	SUFFICIENCY RATING	44.9 STATUS 0
GEOMETRIC DATA		CLASSIFICATION	
(48) LENGTH OF MAX SPAN (ft.)	24 (49) STRUCTURE LENGTH (ft.)	(112) NBIS BRIDGE LENGTH	Y
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0.5 RIGHT 0.5	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	26.2	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	07
(52) DECK WIDTH, OUT-TO-OUT (ft.)	28.5	(100) STRAHNET HIGHWAY DESIGNATION	0
(32) APPROACH ROADWAY WIDTH (ft.)	24.0	(101) PARALLEL STRUCTURE DESIGNATION	N
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(102) DIRECTION OF TRAFFIC	2
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	(103) TEMP STRUCTURE	
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	26.9	(105) FEDERAL LANDS HIGHWAYS	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	(110) DESIGNATED NATIONAL NETWORK	0
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	(20) TOLL	3
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(21) MAINTENANCE RESPONSIBILITY	01
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	(22) OWNER	01
PROPOSED IMPROVEMENTS		(37) HISTORICAL	5
(75A) TYPE OF WORK PROPOSED	31 (75B) WORK DONE BY	1	
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	47.0	NAVIGATION DATA	
(94) BRIDGE IMPROVEMENT COST (\$)	0	(38) NAVIGATION CONTROL	0
(95) ROADWAY IMPROVEMENT COST (\$)	125	(111) PIER OR ABUTMENT PROTECTION	1
(96) TOTAL PROJECT COST	236	(39) NAV VERT CLEARANCE (ft.)	0
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2002	(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
(114) FUTURE ADT	2555 (115) YEAR OF FUTURE ADT	(40) NAV HORIZONTAL CLEARANCE (ft.)	0
	2028		



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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
<b>12 - Reinforced Concrete Deck</b>	1- Ben.	654	sq. ft.	600	54	0	0
	MINOR CRACKING IN OVERLAY. MINOR CRACKING W / EFFLOR ON RT SIDE IN SOFFIT.						
1120 - Efflorescence/Rust Staining		54		0	54	0	0
510 - Wearing Surfaces		629	sq. ft.	400	229	0	0
3220 - Crack (Wearing Surface)		229		0	229	0	0
<b>107 - Steel Open Girder/Beam</b>	1- Ben.	96	ft.	0	48	48	0
	COND. 2 - 48 LF - MINOR TO MODERATE SURFACE & FRECKLED RUST ON BEAMS 1 & 2 ON LT. SIDE. COND 3 - 48 LF - MODERATE TO MAJOR RUST & SECTION LOSS IN BOTTOM FLANGE & IN BOTTOM OF WEB ON BEAMS 3 & 4 ON RT. SIDE. SEVERAL HOLES RUSTED THRU THE WEB.						
1000 - Corrosion		96		0	48	48	0
515 - Steel Protective Coating		256	sq. ft.	0	0	124	132
3440 - Effectiveness (Steel Protective Coatings)		256		0	0	124	132
<b>144 - Reinforced Concrete Arch</b>	1- Ben.	24	ft.	24	0	0	0
<b>215 - Reinforced Concrete Abutment</b>	1- Ben.	60	ft.	60	0	0	0
	MINOR CRACKING THROUGHOUT.						
<b>330 - Metal Bridge Railing</b>	1- Ben.	48	ft.	24	24	0	0
	TIMBER POST ON LEFT SIDE OF BRIDGE HAVE MINOR TO MODERATE CRACKING, CHECKING & SPLITTING IN ALL POST. 1st, 2nd & 3rd TIMBER POST ON LT. SIDE BK. OF ABUTMENT 2 ARE CRACKED & BROKEN. POST AT ABUTMENT 2 MISSING. METAL RAIL & POST - RT. SIDE - GOOD.						
7000 - Damage		24		0	24	0	0
515 - Steel Protective Coating		144	sq. ft.	0	144	0	0
3440 - Effectiveness (Steel Protective Coatings)		144		0	144	0	0

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## Bridge Inspection Report

### Pictures

PHOTO 1

Description

PHOTO 1

Description



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**Bridge Inspection Report**

**Pictures**

PHOTO 2

Description

**Inspector:**

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**Bridge Inspection Report**

**Sketches**



Inspector:

Structure Number: 00813

Inspection Date:

Facility Carried: SH 105

### Bridge Inspection Report

## Maintenance Needs

Date Reported: 7/12/2011 12:00:00 AM

Priority: C - Important

Work Code:

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### Deficiency Description:

Beam #'s 3 & 4 - Major section loss on bottom flange and lower part of web.

### Work Description:

Item reviewed. Will continue to monitor.

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Date Repairs Completed:

Maintenance Comments:

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Stage: Monitor



PHOTO 1      Description      Rust & Section Loss on Beams.

Stage: Monitor



PHOTO 2      Description      Rust & Section Loss on Beams.

Inspector:

Structure Number: 00813

Inspection Date:

Facility Carried: SH 105

## Bridge Inspection Report

### Maintenance Needs

Date Reported: 7/11/2013 12:00:00 AM

Priority: C - Important

Work Code:

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#### Deficiency Description:

WOODEN GUARD RAIL POST CRACKED & BROKEN ON LT. SIDE. 1ST, 2ND & 3RD POST BACK OF ABUTMENT 2.

#### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Monitor



PHOTO 1      Description      Left (east side) - Post #'s 3 & 4 broke at top bolt hole, post #5 missing.