

# Bridge Inspection Report

**06235**  
**SH 282-SEC 1**  
**over**  
**I-49**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

Inspector:

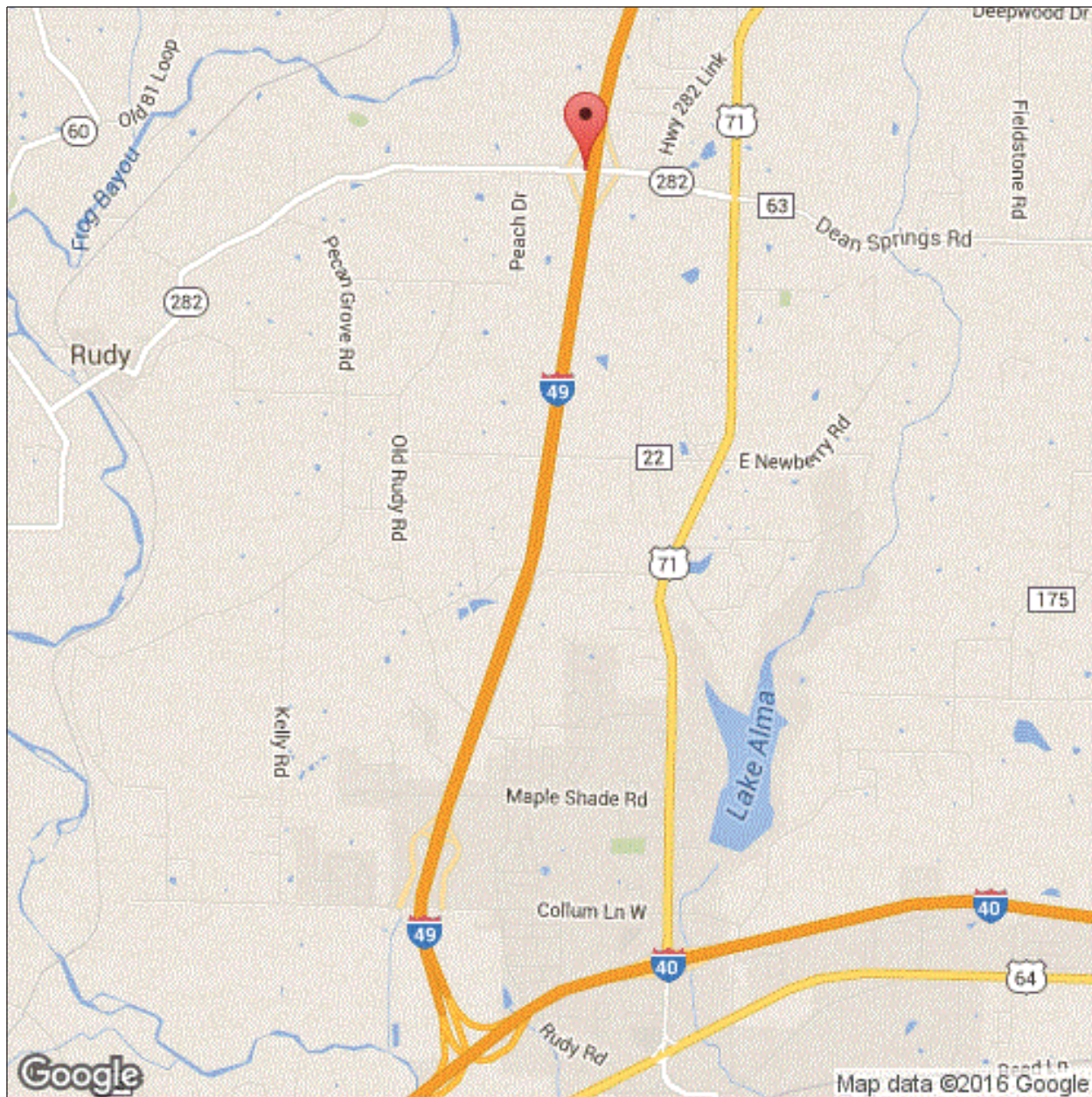
Structure Number: 06235

Inspection Date:

Facility Carried: SH 282-SEC 1

## Bridge Inspection Report

### Location Map



Latitude: 35.539654662645546

Longitude: -94.23242776521056

**Inspector:**

**Structure Number:** 06235

**Inspection Date:**

**Facility Carried:** SH 282-SEC 1

## **Bridge Inspection Report**

### **Executive Summary**

04/12/2016 JPB & RSM-Routine Inspection conducted on this date. Underclearance measurements verified this inspection. See Microstation drawing linked in "Other File" for clearance measurements.



Inspector:

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Inspection Date:

Facility Carried: SH 282-SEC 1

## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	04/12/2016
(8) STRUCTURE NUMBER	06235	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 282 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	04 (3) COUNTY CODE 033	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	I-49	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 282-SEC 1		
(9) LOCATION	0.6 M W JCT Hwy 282 & 71		
(11) MILEPOINT 9.448	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.53965466264554	(17) LONGITUDE -94.23242776521056		
(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: 4 - Steel continuous		(59) SUPERSTRUCTURE	7
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(60) SUBSTRUCTURE	7
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	N
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN 4	(46) NUMBER OF APPROACH 0		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 1		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 1		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1989	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	5
(42) TYPE OF SERVICE ON 1 UNDER 1		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 04		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 3700	(19) BYPASS DETOUR LENGTH 10	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	36.0
(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.) 99	(49) STRUCTURE LENGTH (ft.) 300	(67) STRUCTURAL EVALUATION	7
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	6
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 40.0		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	6
(52) DECK WIDTH, OUT-TO-OUT (ft.) 42.8		(71) WATERWAY ADEQUACY	N
(32) APPROACH ROADWAY WIDTH (ft.) 40.0		(72) APPROACH ROADWAY ALIGNMENT	8
(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.) 40.4		36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.) H 16.67		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) H 31.1		(113) SCOUR CRITICAL BRIDGES	N
(56) MIN LATERAL UNDER CLEARANCE (ft.) 37.6		SUFFICIENCY RATING	0
		STATUS	97.2
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
		(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	N
		(111) PIER OR ABUTMENT PROTECTION	1
		(39) NAV VERT CLEARANCE (ft.)	0
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0

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## Bridge Inspection Report

## National Bridge Inventory

(114) FUTURE ADT 2587 (115) YEAR OF FUTURE ADT 2027 (40) NAV HORIZONTAL CLEARANCE (ft.) 0

## UNDER RECORD A

## IDENTIFICATION

(1) STATE CODE	056 - Arkansas	(7) FACILITY CARRIED	SH 282-SEC 1
(3) COUNTY CODE	033	(8) STRUCTURE NUMBER	06235
(4) PLACE CODE	00000	(9) LOCATION	0.6 M W JCT Hwy 282 & 71
(5) INV. ROUTE (ON/UNDER)	A 1 1 49 3	(11) MILEPOINT	23.665 (12) BASE HIGHWAY NETWORK 1
(6) FEATURES INTERSECTED	I 49	(13A) LRS INVENTORY ROUTE	0000049070 (13B) SUBROUTE NUMBER 00
		(16) LATITUDE	35. (17) LONGITUDE -94.2325833333334
			5396666666667

## STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE, MAIN A) KIND OF MATERIAL/DESIGN: 4 - Steel continuous  
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder

## AGE OF SERVICE

(19) BYPASS DETOUR LENGTH	0	(30) YEAR OF AVERAGE DAILY TRAFFIC	2014
(27) YEAR BUILT	1989	(42) TYPE OF SERVICE	ON 1 UNDER 1
(28) LANES	ON 04 UNDER 02	(109) AVERAGE DAILY TRUCK TRAFFIC	1
(29) AVERAGE DAILY TRAFFIC	11000		

## GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	17.2	(48) LENGTH OF MAXIMUM SPAN	99	(49) STRUCTURE LENGTH	300
(47) TOTAL HORIZONTAL CLEARANCE	96.0				

## CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	1
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	01	(103) TEMP STRUCTURE	
(100) STRAHNET HIGHWAY DESIGNATION	1	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(101) PARALLEL STRUCTURE DESIGNATION	N	(110) DESIGNATED NATIONAL NETWORK	1

## UNDER RECORD B

## IDENTIFICATION

(1) STATE CODE	056 - Arkansas	(7) FACILITY CARRIED	SH 282-SEC 1
(3) COUNTY CODE	033	(8) STRUCTURE NUMBER	06235
(4) PLACE CODE	00000	(9) LOCATION	0.6 M W JCT Hwy 282 & 71
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(19) BYPASS DETOUR LENGTH	0	(30) YEAR OF AVERAGE DAILY TRAFFIC	2014
(27) YEAR BUILT	1989	(42) TYPE OF SERVICE	ON 1 UNDER 1
(28) LANES	ON 04 UNDER 02	(109) AVERAGE DAILY TRUCK TRAFFIC	1
(29) AVERAGE DAILY TRAFFIC	11000		

## GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	16.8	(48) LENGTH OF MAXIMUM SPAN	99	(49) STRUCTURE LENGTH	300
(47) TOTAL HORIZONTAL CLEARANCE	96.0				

## CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	1
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	01	(103) TEMP STRUCTURE	
(100) STRAHNET HIGHWAY DESIGNATION	1	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(101) PARALLEL STRUCTURE DESIGNATION	N	(110) DESIGNATED NATIONAL NETWORK	1

**Inspection Date:**

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## Element Inspection

[illegible]

Inspector:

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## Element Inspection

<b>311 - Movable Bearing</b>	1- Ben.	12	each	0	3	9	0
	-One anchor bolt is sheared off at Beam 3 at the West Abutment. -One anchor bolt is sheared off at Beam 3 and both anchor bolts are sheared off at Beam 4, East Abutment. -Bearings have active corrosion with layers of rust on the masonry plates.						
1000 - Corrosion		10			3	7	
1020 - Connection		2				2	
<b>331 - Reinforced Concrete Bridge Railing</b>	1- Ben.	600	ft.	446	154	0	0
	-Spalling with exposed reinforcing steel visible at the base of parapet curbs with no apparent changes since last inspection. -The texicoat finish in peeling in areas. -Minor collision marks on the right parapet wall.						
1090 - Exposed Rebar		154			154		



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## Bridge Inspection Report

### Pictures





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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 5/24/2012 12:00:00 AM

Priority: D - Routine

Work Code:

---

#### Deficiency Description:

Deck.

The driving surface of the deck has sealable transverse deck cracks with light efflorescence.

#### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Assigned



PHOTO 1      Description      Light / medium efflorescence visible in undersurface of all Spans.

Stage: Assigned



PHOTO 2      Description      The driving surface of the deck has sealable transverse deck cracks with light efflorescence.

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 5/24/2012 12:00:00 AM

Priority: D - Routine

Work Code:

---

#### Deficiency Description:

Superstructure

The superstructure has areas of active corrosion in top flanges of the beams and a failing paint system.

The active corrosion in the top flanges appears to correspond with full depth cracks in the deck.

Areas of freckling rust mainly on the interior side of Beam 1.

#### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Assigned



PHOTO 1      Description      Transverse cracks appear to be full depth with leakage contributing to the active corrosion on the top flanges of the beams.

Stage: Assigned



PHOTO 2      Description      Superstructure has a failing paint system with freckled rust and active corrosion in the top flanges of the beams and diaphragms with isolated area of flaking rust.

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 4/23/2014 12:00:00 AM

Priority: D - Routine

Work Code:

---

#### Deficiency Description:

Deck Joints

Compression joint seals have adhesion failure and leak water and debris on the caps.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

---

Stage: Assigned



PHOTO 1      Description      The joint seal at Bent 1 has cracks and appears to be deteriorating from weathering.



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### Maintenance Needs

Date Reported: 4/23/2014 12:00:00 AM

Priority: D - Routine

Work Code:

---

#### Deficiency Description:

Bearings

The bearings have active corrosion and flaking rust.

#### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Assigned



PHOTO 1      Description      Bearings have active corrosion with layers of rust on the masonry plates.