

# Bridge Inspection Report

**B5317**  
**RODNEY PARHAM E.B.**  
**over**  
**I 430-LOG 7.68**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

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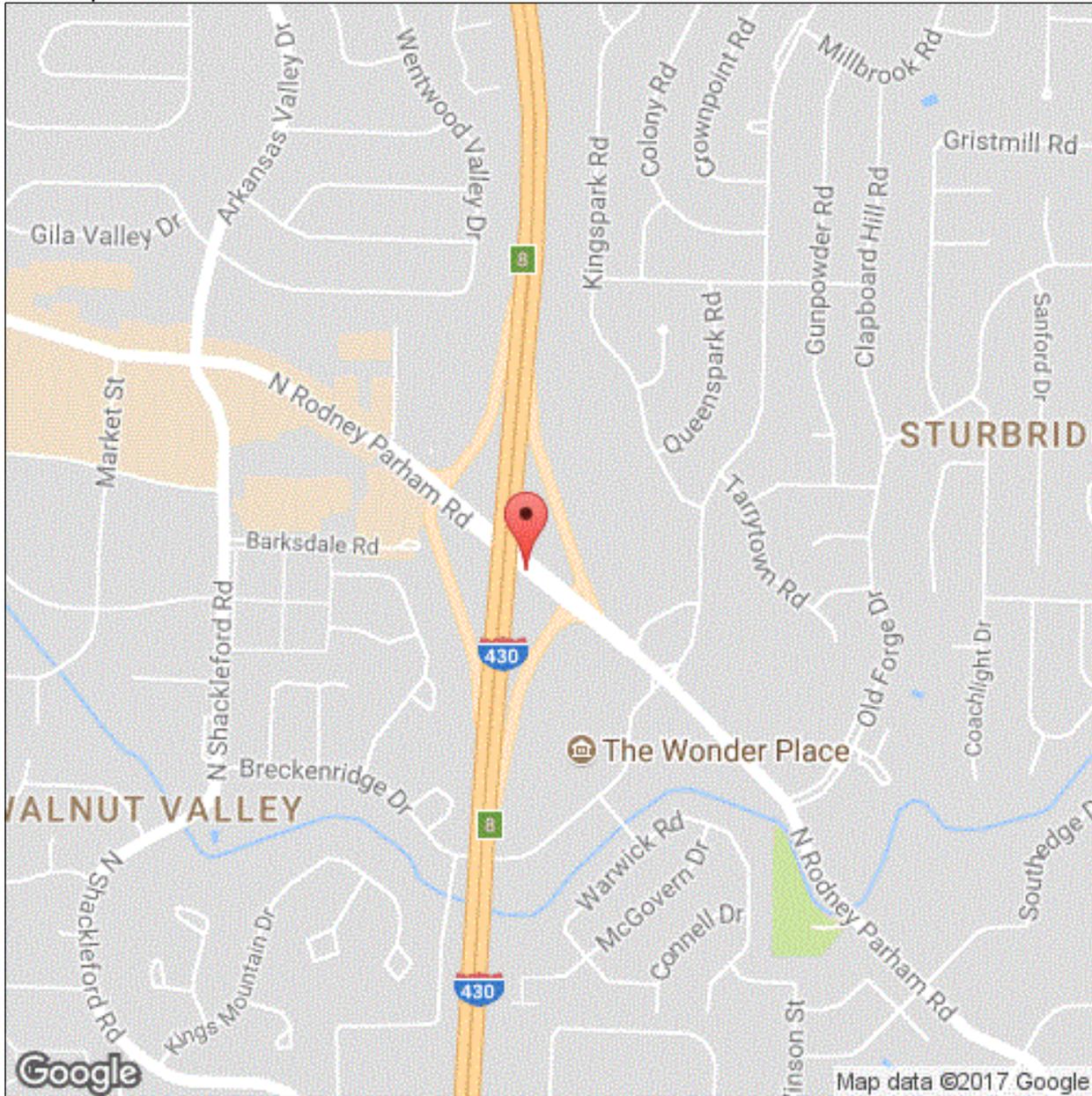
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Inspector:  
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Structure Number: B5317  
Facility Carried: RODNEY PARHAM  
E.B.

Bridge Inspection Report

Location Map



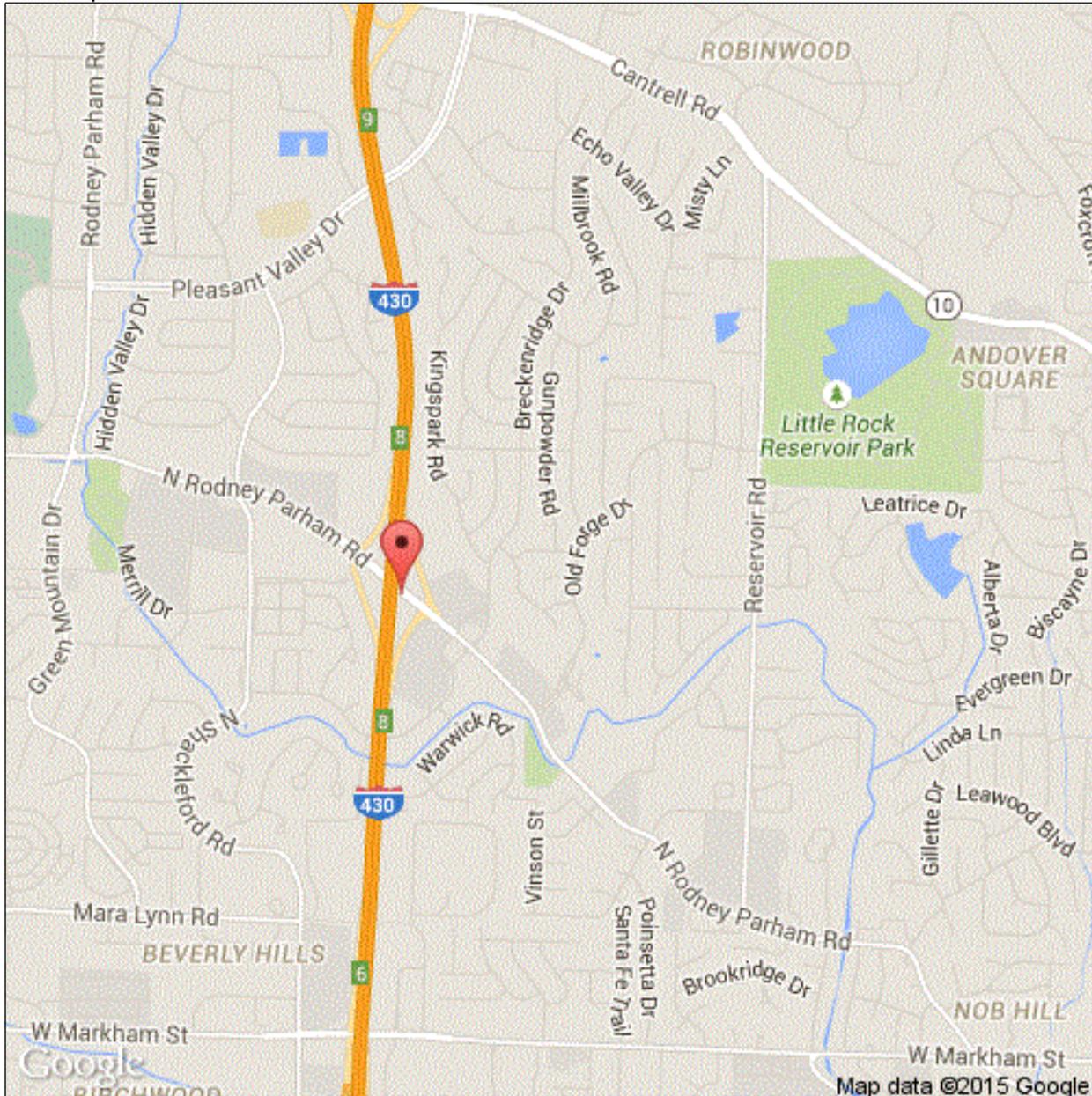
Latitude: 34.76810  
Longitude: -92.38985

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Bridge Inspection Report

Location Map



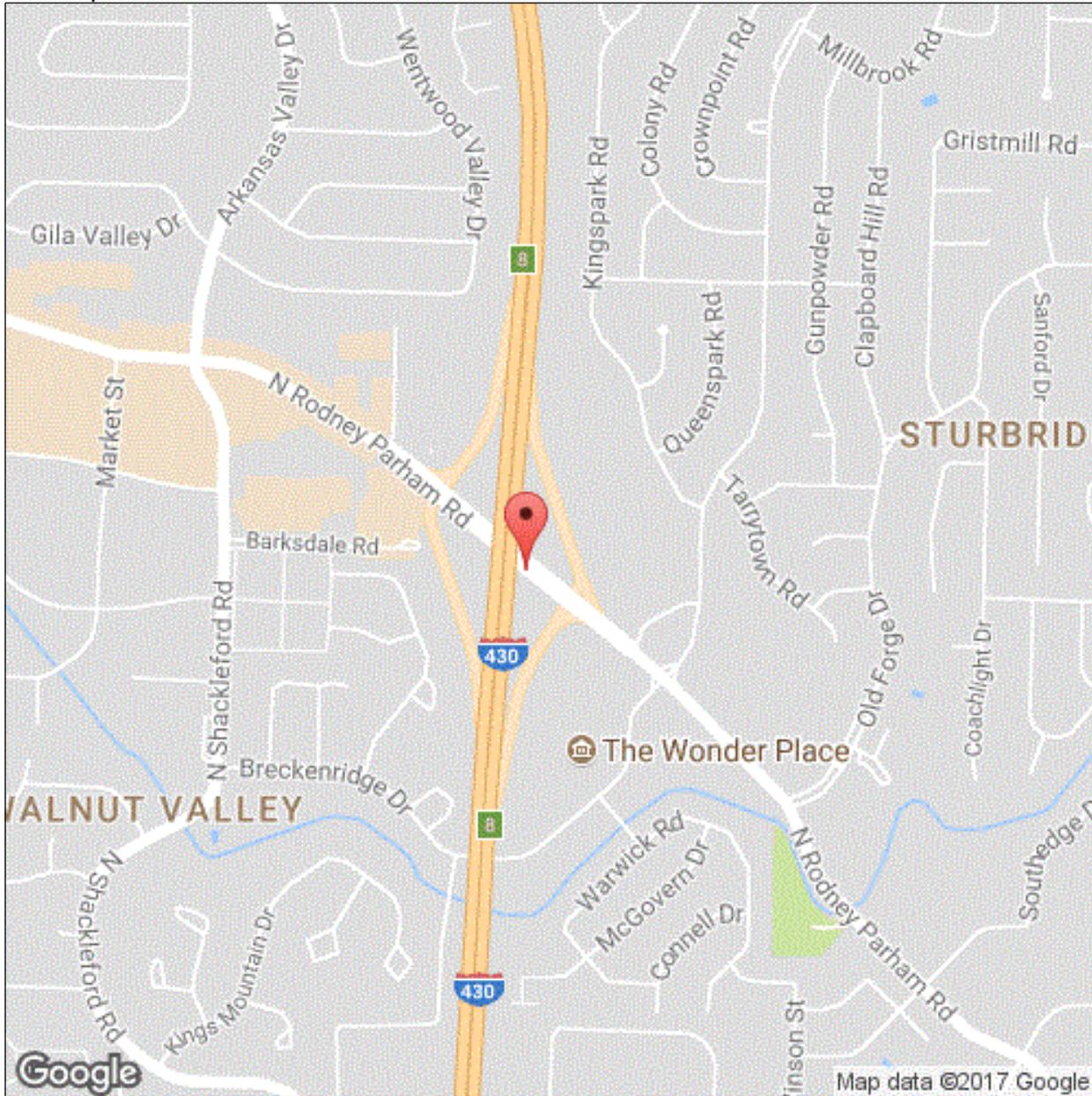
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Location Map



Latitude: 34.76810  
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Executive Summary

See AHTD drawing # 17014 for layout.  
Logged west.

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION				INSPECTIONS			
(1) STATE CODE	056 - Arkansas			(90) INSPECTION DATE	07/25/2017		
(8) STRUCTURE NUMBER	B5317			(91) DESIGNATED INSPECTION FREQUENCY	24		
(5) INV. ROUTE (ON/UNDER)	1	5	1 49630 2	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE		
(2) HIGHWAY AGENCY	06	(3) COUNTY CODE	119	A. FRACTURE CRITICAL DETAIL	N		
(4) PLACE CODE	39020			B. UNDERWATER INSPECTION	N		
(6) FEATURES INTERSECTED	I 430-LOG 7.68			C. OTHER SPECIAL	N		
(7) FACILITY CARRIED	RODNEY PARHAM E.B.			CONDITION			
(9) LOCATION	137 M N OF 630			(58) DECK	6		
(11) MILEPOINT 1.750	(12) BASE HIGHWAY NETWORK 0			(59) SUPERSTRUCTURE 7	(60) SUBSTRUCTURE 7		
(13A) LRS INVENTORY ROUTE	0000000000	(13B) SUBROUTE NUMBER	00	(61) CHANNEL & CHANNEL PROTECTION	N	(62) CULVERT	N
(16) LATITUDE	34.76810	(17) LONGITUDE	-92.38985	LOAD RATING AND POSTING			
(98A) BORDER BRIDGE CODE				(31) DESIGN LOAD	6		
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT			(63) METHOD USED TO DETERMINE OPERATING RATING	1		
STRUCTURE TYPE AND MATERIAL				(64) OPERATING RATING	41		
(43) STRUCTURE TYPE, MAIN				(65) METHOD USED TO DETERMINE INVENTORY RATING	1		
A) KIND OF MATERIAL/DESIGN:	4 - Steel continuous			(66) INVENTORY RATING	25		
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder			(70) BRIDGE POSTING	5		
(44) STRUCTURE TYPE, APPROACH SPANS				(41) STRUCTURE OPEN/POSTED/CLOSED	A		
A) KIND OF MATERIAL/DESIGN:	0 - Other			APPRAISAL			
B) TYPE OF DESIGN/CONSTR:	00 - Other			(67) STRUCTURAL EVALUATION	6		
(45) NUMBER OF SPANS IN MAIN	4	(46) NUMBER OF APPROACH	0	(68) DECK GEOMETRY	5		
(107) DECK STRUCTURE TYPE	1	(108A) WEARING SURFACE	1	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	5		
(108B) DECK MEMBRANE	0	(108C) DECK PROTECTION	0	(71) WATERWAY ADEQUACY	N		
AGE OF SERVICE				(72) APPROACH ROADWAY ALIGNMENT	8		
(27) YEAR BUILT	1974	(106) YEAR RECONSTRUCTED	0000	(36) TRAFFIC SAFETY FEATURE			
(42) TYPE OF SERVICE	ON 6	UNDER	1	36A) BRIDGE RAILINGS:	0		
(28) LANES	ON 02	UNDER	06	36B) TRANSITIONS:	0		
(29) AVERAGE DAILY TRAFFIC	2290	(19) BYPASS DETOUR LENGTH	1	36C) APPROACH GUARDRAIL:	0		
(30) YEAR OF AVERAGE DAILY TRAFFIC	1987			36D) APPROACH GUARDRAIL ENDS:	0		
(109) AVERAGE DAILY TRUCK TRAFFIC	1			(113) SCOUR CRITICAL BRIDGES	N		
GEOMETRIC DATA				SUFFICIENCY RATING	0	STATUS	84.9
(48) LENGTH OF MAX SPAN (ft.)	107	(49) STRUCTURE LENGTH (ft.)	352	CLASSIFICATION			
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0	RIGHT	0.5	(112) NBIS BRIDGE LENGTH	Y		
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	35.4			(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0		
(52) DECK WIDTH, OUT-TO-OUT (ft.)	39.1			(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	17		
(32) APPROACH ROADWAY WIDTH (ft.)	35.1			(100) STRAHNET HIGHWAY DESIGNATION	0		
(33) BRIDGE MEDIAN	0	(34) SKEW (DEG.)	54	(101) PARALLEL STRUCTURE DESIGNATION	L		
(35) STRUCTURE FLARED	0	(10) INV RTE, MIN VERT CLEAR (ft.)	99.99	(102) DIRECTION OF TRAFFIC	1		
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	40.0			(103) TEMP STRUCTURE			
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99			(105) FEDERAL LANDS HIGHWAYS	0		
(54) VERTICAL UNDER CLEARANCE (ft.)	H		16.16	(110) DESIGNATED NATIONAL NETWORK	0		
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H		30.8	(20) TOLL	3		
(56) MIN LATERAL UNDER CLEARANCE (ft.)	8			(21) MAINTENANCE RESPONSIBILITY	01		
PROPOSED IMPROVEMENTS				(22) OWNER	01		
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY			(37) HISTORICAL	5		
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0			NAVIGATION DATA			
(94) BRIDGE IMPROVEMENT COST (\$)	0			(38) NAVIGATION CONTROL	N		
(95) ROADWAY IMPROVEMENT COST (\$)	0			(111) PIER OR ABUTMENT PROTECTION	5		
(96) TOTAL PROJECT COST	0			(39) NAV VERT CLEARANCE (ft.)	0		
(97) YEAR OF IMPROVEMENT COST ESTIMATE				(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0		
(114) FUTURE ADT	2968	(115) YEAR OF FUTURE ADT	2007	(40) NAV HORIZONTAL CLEARANCE (ft.)	0		

Inspector:  
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E.B.

Bridge Inspection Report

National Bridge Inventory

UNDER RECORD A

IDENTIFICATION

(1) STATE CODE 056 - Arkansas (7) FACILITY CARRIED RODNEY PARHAM E.B.  
(3) COUNTY CODE 119 (8) STRUCTURE NUMBER B5317  
(4) PLACE CODE 39020 (9) LOCATION 137 M N OF 630  
(5) INV. ROUTE (ON/UNDER) A 1 1 430 1 (11) MILEPOINT 7.678 (12) BASE HIGHWAY NETWORK 1  
(6) FEATURES INTERSECTED I 430-LOG 7.68 (13A) LRS INVENTORY ROUTE 0000430210 (13B) SUBROUTE NUMBER 10  
(16) LATITUDE 34. (17) LONGITUDE -92.3898888888889  
768027777778

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 1 (30) YEAR OF AVERAGE DAILY TRAFFIC 2014  
(27) YEAR BUILT 1974 (42) TYPE OF SERVICE ON 6 UNDER 1  
(28) LANES ON 03 UNDER 02 (109) AVERAGE DAILY TRUCK TRAFFIC 1  
(29) AVERAGE DAILY TRAFFIC 42000

GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE 16.16 (48) LENGTH OF MAXIMUM SPAN 107 (49) STRUCTURE LENGTH 352  
(47) TOTAL HORIZONTAL CLEARANCE 74.7

CLASSIFICATION

(20) TOLL 3 (102) DIRECTION OF TRAFFIC 1  
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE 11 (103) TEMP STRUCTURE  
(100) STRAHNET HIGHWAY DESIGNATION 1 (104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE 1  
(101) PARALLEL STRUCTURE DESIGNATION L (110) DESIGNATED NATIONAL NETWORK 1

UNDER RECORD B

IDENTIFICATION

(1) STATE CODE 056 - Arkansas (7) FACILITY CARRIED RODNEY PARHAM E.B.  
(3) COUNTY CODE 119 (8) STRUCTURE NUMBER B5317  
(4) PLACE CODE 39020 (9) LOCATION 137 M N OF 630  
(5) INV. ROUTE (ON/UNDER) B 1 1 430 3 (11) MILEPOINT 7.688 (12) BASE HIGHWAY NETWORK 1  
(6) FEATURES INTERSECTED I 430-LOG 7.68 (13A) LRS INVENTORY ROUTE 0000430210 (13B) SUBROUTE NUMBER 00  
(16) LATITUDE 34. (17) LONGITUDE -92.3898888888889  
768027777778

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 1974 (42) TYPE OF SERVICE ON 6 UNDER 1  
(28) LANES ON 03 UNDER 02 (109) AVERAGE DAILY TRUCK TRAFFIC 1  
(29) AVERAGE DAILY TRAFFIC 40000

GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE 17.16 (48) LENGTH OF MAXIMUM SPAN 107 (49) STRUCTURE LENGTH 352  
(47) TOTAL HORIZONTAL CLEARANCE 73.9

CLASSIFICATION

(20) TOLL 3 (102) DIRECTION OF TRAFFIC 1  
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE 11 (103) TEMP STRUCTURE  
(100) STRAHNET HIGHWAY DESIGNATION 1 (104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE 1  
(101) PARALLEL STRUCTURE DESIGNATION L (110) DESIGNATED NATIONAL NETWORK 1

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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.	13359	sq. ft.	899	10850	1610	0
Deck all spans have large unsealed cracks up to 0.060 wide.							
1130 - Cracking (RC and Other)		7035			5425	1610	
1190 - Abrasion/Wear (PSC/RC)		5425			5425		
107 - Steel Open Girder/Beam	1- Ben.	2082	ft.	2070	12	0	0
Beam ends at bents 1 & 5 have active light rust due to leaking joints.							
1000 - Corrosion		12			12		
515 - Steel Protective Coating		22382	sq. ft.	0	16775	5595	12
205 - Reinforced Concrete Column	1- Ben.	9	each	9			
215 - Reinforced Concrete Abutment	1- Ben.	89	ft.	80	9	0	0
Scattered small cracks in both abutments.							
1130 - Cracking (RC and Other)		9			9		
234 - Reinforced Concrete Pier Cap	1- Ben.	131	ft.	128	2	1	0
Bent 4 left end of cap delamination. See photo							
1080 - Delamination/Spall/Patched Area		1				1	
1130 - Cracking (RC and Other)		2			2		
305 - Assembly Joint without Seal	1- Ben.	89	ft.	89			
Material is passing through joint onto bearings and beam ends							
311 - Movable Bearing	1- Ben.	24	each	12	0	12	0
Bents 1 & 5 bearings have laminating rust at masonry plate and bottom of bearings due leaking sliding plate joints. See photo.							
1000 - Corrosion		12				12	
313 - Fixed Bearing	1- Ben.	6	each	6			
321 - Reinforced Concrete Approach Slab	1- Ben.	4218	sq. ft.	4075	143	0	0
Both approach slabs have abrasion in the gutter lines.							
1190 - Abrasion/Wear (PSC/RC)		143			143		
330 - Metal Bridge Railing	1- Ben.	347	ft.	347			
331 - Reinforced Concrete Bridge Railing	1- Ben.	347	ft.	347			

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Pictures

Inspector:

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Bridge Inspection Report

Sketches

Inspector:

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**Maintenance Needs**

Date Reported: 7/14/2011 12:00:00 AM

Priority: C - Important

Work Code:

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Deficiency Description:

Deck all spans  
Unsealed Transverse cracks that are of moderate size and density.

Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Monitor



PHOTO 1 Description Deck cracks

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**Maintenance Needs**

Date Reported: 7/14/2011 12:00:00 AM

Priority: D - Routine

Work Code:

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Deficiency Description:

Abutments 1 and 5

.Debris accumulating on bearings. Due to leaking sliding plate joints

Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Assigned



PHOTO 1 Description Debris at bent 1 and 5