

Bridge Inspection Report

A3877
I 40-SEC 51, WB LN
over
SH 75-SEC 1



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: A3877

Inspection Date:

Facility Carried: I 40-SEC 51, WB LN

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	02/28/2017
(8) STRUCTURE NUMBER	A3877	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 1 1 40 4	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	01 (3) COUNTY CODE 123	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	SH 75-SEC 1	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I 40-SEC 51, WB LN		
(9) LOCATION	3.65 MI W OF SH 149		
(11) MILEPOINT 256.240	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000040510 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.118660	(17) LONGITUDE -90.548264		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	5
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE	5 (60) SUBSTRUCTURE 7
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION	N (62) CULVERT N
(44) STRUCTURE TYPE, APPROACH SPANS			
A) KIND OF MATERIAL/DESIGN: 0 - Other			
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN 3	(46) NUMBER OF APPROACH 0		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 1		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1965	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	6
(42) TYPE OF SERVICE ON 6 UNDER 1		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 02		(64) OPERATING RATING	60
(29) AVERAGE DAILY TRAFFIC 14000	(19) BYPASS DETOUR LENGTH 1	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	36
(109) AVERAGE DAILY TRUCK TRAFFIC 56		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 47	(49) STRUCTURE LENGTH (ft.) 137	(67) STRUCTURAL EVALUATION	5
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0.7 RIGHT 0.7		(68) DECK GEOMETRY	6
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 38.7		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	4
(52) DECK WIDTH, OUT-TO-OUT (ft.) 42.2		(71) WATERWAY ADEQUACY	N
(32) APPROACH ROADWAY WIDTH (ft.) 38.1		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 30	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	36A) BRIDGE RAILINGS:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 38.7		36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.) H 14.40		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) H 7.7		(113) SCOUR CRITICAL BRIDGES	N
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING	0 STATUS 82.4
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	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	01
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	1
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	L
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	1
(114) FUTURE ADT 19000	(115) YEAR OF FUTURE ADT 2034	(103) TEMP STRUCTURE	
		(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	1
		(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
		(40) NAV HORIZONTAL CLEARANCE (ft.)	0

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National Bridge Inventory

UNDER RECORD 2

IDENTIFICATION

(1) STATE CODE	056 - Arkansas	(7) FACILITY CARRIED	I 40-SEC 51, WB LN
(3) COUNTY CODE	123	(8) STRUCTURE NUMBER	A3877
(4) PLACE CODE	00000	(9) LOCATION	3.65 MI W OF SH 149
(5) INV. ROUTE (ON/UNDER)	2 3 1 75 0	(11) MILEPOINT	0.090 (12) BASE HIGHWAY NETWORK 0
(6) FEATURES INTERSECTED	SH 75-SEC 1	(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00
		(16) LATITUDE	35.11833333333333 (17) LONGITUDE -90.54833333333333

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE, MAIN A) KIND OF MATERIAL/DESIGN: 3 - Steel
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	1965	(42) TYPE OF SERVICE	ON 6 UNDER 1
(28) LANES	ON 02 UNDER 02	(109) AVERAGE DAILY TRUCK TRAFFIC	52
(29) AVERAGE DAILY TRAFFIC	680		

GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	14.6	(48) LENGTH OF MAXIMUM SPAN	47	(49) STRUCTURE LENGTH	137
(47) TOTAL HORIZONTAL CLEARANCE	44.5				

CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	2
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	07	(103) TEMP STRUCTURE	
(100) STRAHNET HIGHWAY DESIGNATION	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(101) PARALLEL STRUCTURE DESIGNATION	L	(110) DESIGNATED NATIONAL NETWORK	0

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Element Inspection

[illegible]

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Element Inspection

234 - Reinforced Concrete Pier Cap	1- Ben.	86	ft.	85	0	0	0
	BENT #2 BACK FACE HAS SMALL SPALL WITH EXPOSED REBAR						
1090 - Exposed Rebar		1			1		
305 - Assembly Joint without Seal	1- Ben.	154	ft.	142	12	0	0
	BENT #4 LEFT LANE 1/2 OF TOP PLATE OF ROAD IRON HAS BEEN REMOVED.						
2370 - Metal Deterioration or Damage		12			12		
515 - Steel Protective Coating		462	sq. ft.	0	0	0	462
3440 - Effectiveness (Steel Protective Coatings)		462					462
311 - Movable Bearing	1- Ben.	21	each	21			
515 - Steel Protective Coating		42	sq. ft.	42			
313 - Fixed Bearing	1- Ben.	21	each	0	0	0	0
	ABUTMENT #1 GIRDER #5 BEARING AND ABUTMENT #2 GIRDER #3 BEARING HAVE A GAP BETWEEN THE SOLE PLATE AND THE MASONRY PLATE WITH MOVEMENT UNDER LOAD. FIXED BEARINGS BOTH ABUTMENTS HAVE PACK RUST WITH LAMINATIONS AND MINOR SECTION LOSS.						
1000 - Corrosion		19			19		
2210 - Movement		2			2		
515 - Steel Protective Coating		42	sq. ft.	0	21	21	0
3440 - Effectiveness (Steel Protective Coatings)		42			21	21	
321 - Reinforced Concrete Approach Slab	1- Ben.	1680	sq. ft.	1680			
	APPROACH SLAB IS COVERED IN ASPHALT ALLOWING FOR NO VISUAL INSPECTION.						
521 - Concrete Protective Coating		1680	sq. ft.	0	680	1000	0
3540 - Effectiveness (Concrete Protective Coatings)		1680			680	1000	
331 - Reinforced Concrete Bridge Railing	1- Ben.	275	ft.	183	0	0	0
	CONCRETE PORTION OF BRIDGE RAIL HAS VERTICLE CRACKS ALL SPANS.						
1130 - Cracking (RC and Other)		92			92		
333 - Other Bridge Railing	1- Ben.	275	ft.	275			