

Bridge Inspection Report

A3875
I 40-SEC 51, WB LN
over
CO RD 447



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: A3875

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	01/13/2016
(8) STRUCTURE NUMBER	A3875	(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	CO RD 447	C. OTHER SPECIAL	Y 24 01/17/2017
(7) FACILITY CARRIED	I 40-SEC 51, WB LN		
(9) LOCATION	10.02 MI SW CRITTENDEN CO		
(11) MILEPOINT 254.550	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE 0000040510	(13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.109070	(17) LONGITUDE -90.575668		
(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	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 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 1 UNDER 1		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 02		(64) OPERATING RATING	60.0
(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	36.0
(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.) 39	(49) STRUCTURE LENGTH (ft.) 119	(67) STRUCTURAL EVALUATION	7
(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.) 20	(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.) 40.0		36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.) H 14.8		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) H 5		(113) SCOUR CRITICAL BRIDGES	N
(56) MIN LATERAL UNDER CLEARANCE (ft.) 5		SUFFICIENCY RATING	0
		STATUS	93.6
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	A3875
(4) PLACE CODE	00000	(9) LOCATION	10.02 MI SW CRITTENDEN CO
(5) INV. ROUTE (ON/UNDER)	2 4 1 447 0	(11) MILEPOINT	0.070 (12) BASE HIGHWAY NETWORK 0
(6) FEATURES INTERSECTED	CO RD 447	(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00
		(16) LATITUDE	35. 10833333333333
		(17) LONGITUDE	-90.575

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	9	(30) YEAR OF AVERAGE DAILY TRAFFIC	1983
(27) YEAR BUILT	1965	(42) TYPE OF SERVICE	ON 1 UNDER 1
(28) LANES	ON 02 UNDER 02	(109) AVERAGE DAILY TRUCK TRAFFIC	52
(29) AVERAGE DAILY TRAFFIC	30		

GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	15.1	(48) LENGTH OF MAXIMUM SPAN	39	(49) STRUCTURE LENGTH	119
(47) TOTAL HORIZONTAL CLEARANCE	34.0				

CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	2
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	09	(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

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	4774	sq. ft.	0	4774	0	0
	ALL SPANS HAVE NUMEROUS AREAS OF REPAIRS AND AREAS OF MODERATE SCALING. ALL SPANS HAVE NUMEROUS OPEN TRANSVERSE AND LONGITUDINAL CRACKS IN DECK. SMALL SPALLS AT BENT #4 JOINT LEFT LANE.						
1080 - Delamination/Spall/Patched Area		50			50		
1130 - Cracking (RC and Other)		800			800		
1190 - Abrasion/Wear (PSC/RC)		3924			3924		
107 - Steel Open Girder/Beam	1- Ben.	819	ft.	819			
	Girders have been sandblasted and painted since last inspection						
515 - Steel Protective Coating		4439	sq. ft.	4439			
205 - Reinforced Concrete Column	1- Ben.	4	each	4			
215 - Reinforced Concrete Abutment	1- Ben.	103	ft.	103			
234 - Reinforced Concrete Pier Cap	1- Ben.	86	ft.	86			
305 - Assembly Joint without Seal	1- Ben.	172	ft.	172			
	ROAD IRON AT BENT #4 IN TRAFFIC LANES HAS BEEN REMOVED						
515 - Steel Protective Coating		516	sq. ft.	0		344	172
311 - Movable Bearing	1- Ben.	21	each	21			
	Bearings have been sandblasted and painted but pack rust still exists between sole and masonry plate.						
515 - Steel Protective Coating		42	sq. ft.	34			8
313 - Fixed Bearing	1- Ben.	21	each	21			
	Bearings have been sandblasted and painted but pack rust still exists between sole and masonry plate.						
515 - Steel Protective Coating		42	sq. ft.	34			8
321 - Reinforced Concrete Approach Slab	1- Ben.	1680	sq. ft.	1680			
	Asphalt overlay on approach slabs is starting to deteriorate.						
521 - Concrete Protective Coating		1680	sq. ft.	0	1680		
330 - Metal Bridge Railing	1- Ben.	239	ft.	239			
331 - Reinforced Concrete Bridge Railing	1- Ben.	239	ft.	239			