

Bridge Inspection Report

B3875
I 40-SEC 51, EB LN
over
CO RD 447



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: B3875

Inspection Date:

Facility Carried: I 40-SEC 51, EB LN

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	01/13/2016
(8) STRUCTURE NUMBER	B3875	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 1 1 40 2	(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	N
(7) FACILITY CARRIED	I 40-SEC 51, EB LN		
(9) LOCATION	1.69 MI SW OF SH 75		
(11) MILEPOINT 254.550	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE 0000040510	(13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.10882	(17) LONGITUDE -90.57567		
(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
GEOMETRIC DATA		(41) STRUCTURE OPEN/POSTED/CLOSED	A
(48) LENGTH OF MAX SPAN (ft.) 39	(49) STRUCTURE LENGTH (ft.) 119		
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0.7 RIGHT 0.7			
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	38.7		
(52) DECK WIDTH, OUT-TO-OUT (ft.)	42.2		
(32) APPROACH ROADWAY WIDTH (ft.)	38.1		
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 20		
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99		
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	39.0		
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99		
(54) VERTICAL UNDER CLEARANCE (ft.)	H 15.1		
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H 5		
(56) MIN LATERAL UNDER CLEARANCE (ft.)	5		
PROPOSED IMPROVEMENTS		APPRAISAL	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(67) STRUCTURAL EVALUATION	7
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 0		(68) DECK GEOMETRY	6
(94) BRIDGE IMPROVEMENT COST (\$)	0	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	4
(95) ROADWAY IMPROVEMENT COST (\$)	0	(71) WATERWAY ADEQUACY	N
(96) TOTAL PROJECT COST	0	(72) APPROACH ROADWAY ALIGNMENT	8
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(36) TRAFFIC SAFETY FEATURE	
(114) FUTURE ADT 19000	(115) YEAR OF FUTURE ADT 2034	36A) BRIDGE RAILINGS:	0
		36B) TRANSITIONS:	1
		36C) APPROACH GUARDRAIL:	1
		36D) APPROACH GUARDRAIL ENDS:	1
		(113) SCOUR CRITICAL BRIDGES	N
		SUFFICIENCY RATING	0
		STATUS	93.6
		CLASSIFICATION	
		(112) NBIS BRIDGE LENGTH	Y
		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
		(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	01
		(100) STRAHNET HIGHWAY DESIGNATION	1
		(101) PARALLEL STRUCTURE DESIGNATION	R
		(102) DIRECTION OF TRAFFIC	1
		(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, EB LN
(3) COUNTY CODE	123	(8) STRUCTURE NUMBER	B3875
(4) PLACE CODE	00000	(9) LOCATION	1.69 MI SW OF SH 75
(5) INV. ROUTE (ON/UNDER)	2 4 8 447 0	(11) MILEPOINT	0.060 (12) BASE HIGHWAY NETWORK 0
(6) FEATURES INTERSECTED	CO RD 447	(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00
		(16) LATITUDE	35.11 (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	15.8	(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	R	(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
	ALL SPANS HAVE NUMEROUS AREAS OF MODERATE SCALING., SPAN #3 HAS SEVERAL SPALLS IN BOTH LANES. SPAN #2 HAS TWO SPALLS IN RIGHT LANE. ALL SPANS HAVE NUMEROUS						
1080 - Delamination/Spall/Patched Area		30			30		
1130 - Cracking (RC and Other)		950			950		
1190 - Abrasion/Wear (PSC/RC)		3794			3794		
107 - Steel Open Girder/Beam	1- Ben.	819	ft.	819			
	Superstructure has been sandblasted and painted since last inspection						
515 - Steel Protective Coating		4439	sq. ft.	4439			
205 - Reinforced Concrete Column	1- Ben.	4	each	2		2	0
	Bent #2 column #2 is spalled with exposed rebar on ahead face. Rebar has less than 5% section loss. bent #2 column # 1 has large delamination on inside face at top.						
1080 - Delamination/Spall/Patched Area		1				1	
1090 - Exposed Rebar		1				1	
215 - Reinforced Concrete Abutment	1- Ben.	103	ft.	103			
234 - Reinforced Concrete Pier Cap	1- Ben.	86	ft.	86			
	Hairline cracks in cantilever section of caps						
305 - Assembly Joint without Seal	1- Ben.	172	ft.	172			
515 - Steel Protective Coating		516	sq. ft.	0		344	172
311 - Movable Bearing	1- Ben.	21	each	21			
	Bearings have been sandblasted and painted. Pack rust still exists between sole and masonry plates.						
515 - Steel Protective Coating		42	sq. ft.	34			8
313 - Fixed Bearing	1- Ben.	21	each	21			
	Bearings have been sandblasted and painted. Pack rust still exists between sole and masonry plates						
515 - Steel Protective Coating		42	sq. ft.	34			8
321 - Reinforced Concrete Approach Slab	1- Ben.	1680	sq. ft.	1680			
	Asphalt overlay 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			