

# Bridge Inspection Report

**B3879**  
**I 40-SEC 51, EB LN**  
**over**  
**SFC 512**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

Inspector:

Structure Number: B3879

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	02/28/2017
(8) STRUCTURE NUMBER	B3879	(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	SFC 512	C. OTHER SPECIAL	Y 24 02/01/2016
(7) FACILITY CARRIED	I 40-SEC 51, EB LN	CONDITION	
(9) LOCATION	1.7 MI NE OF SH 75	(58) DECK	6
(11) MILEPOINT 257.940	(12) BASE HIGHWAY NETWORK 1	(59) SUPERSTRUCTURE	6 (60) SUBSTRUCTURE 7
(13A) LRS INVENTORY ROUTE 0000040510	(13B) SUBROUTE NUMBER 00	(61) CHANNEL & CHANNEL PROTECTION	N (62) CULVERT N
(16) LATITUDE 35.128132	(17) LONGITUDE -90.520508	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	60.0
(43) STRUCTURE TYPE, MAIN		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
A) KIND OF MATERIAL/DESIGN:	3 - Steel	(66) INVENTORY RATING	36.0
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	3 (46) NUMBER OF APPROACH	(68) DECK GEOMETRY	6
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	5
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION	(71) WATERWAY ADEQUACY	N
AGE OF SERVICE		(72) APPROACH ROADWAY ALIGNMENT	8
(27) YEAR BUILT	1965 (106) YEAR RECONSTRUCTED	(36) TRAFFIC SAFETY FEATURE	
(42) TYPE OF SERVICE	ON 1 UNDER 1	36A) BRIDGE RAILINGS:	1
(28) LANES	ON 02 UNDER 02	36B) TRANSITIONS:	1
(29) AVERAGE DAILY TRAFFIC	14000 (19) BYPASS DETOUR LENGTH	36C) APPROACH GUARDRAIL:	1
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	36D) APPROACH GUARDRAIL ENDS:	1
(109) AVERAGE DAILY TRUCK TRAFFIC	56	(113) SCOUR CRITICAL BRIDGES	N
GEOMETRIC DATA		SUFFICIENCY RATING	0 STATUS 95.7
(48) LENGTH OF MAX SPAN (ft.)	37 (49) STRUCTURE LENGTH (ft.)	CLASSIFICATION	
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0.7 RIGHT 0.7	(112) NBIS BRIDGE LENGTH	Y
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	38.7	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(52) DECK WIDTH, OUT-TO-OUT (ft.)	42	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	01
(32) APPROACH ROADWAY WIDTH (ft.)	38.1	(100) STRAHNET HIGHWAY DESIGNATION	1
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(101) PARALLEL STRUCTURE DESIGNATION	R
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	(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 14.77	(110) DESIGNATED NATIONAL NETWORK	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H 7.8	(20) TOLL	3
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	(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	1
(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	19000 (115) YEAR OF FUTURE ADT	(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	B3879
(4) PLACE CODE	00000	(9) LOCATION	1.7 MI NE OF SH 75
(5) INV. ROUTE (ON/UNDER)	2 4 8 50 0	(11) MILEPOINT	0.060 (12) BASE HIGHWAY NETWORK 0
(6) FEATURES INTERSECTED	SFC 512	(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00
		(16) LATITUDE	35.12833333333333 (17) LONGITUDE -90.52

#### 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	1	(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	140		

#### GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	15.09	(48) LENGTH OF MAXIMUM SPAN	37	(49) STRUCTURE LENGTH	113
(47) TOTAL HORIZONTAL CLEARANCE	34.4				

#### 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.	4527	sq. ft.	2687	1840	0	0
	SOFFIT HAS TRANSVERSE AND LONGITUDINAL HAIRLINE CRACKS. DECK HAS TRANSVERSE AND LONGITUDINAL HAIRLINE CRACKS. SPAN #1,3 HAS ASPHALT TRANSITION AT ABUTMENTS. SPAN #3 HAS 3 SMALL SPALLS IN RIGHT LANE						
1080 - Delamination/Spall/Patched Area		30			30		
1130 - Cracking (RC and Other)		1810			1810		
107 - Steel Open Girder/Beam	1- Ben.	777	ft.	509	268	0	0
	.ALL GIRDERS HAVE VERTICAL MOVEMENT AT ABUTMENTS UNDER LOAD.  GIRDER #7 SPAN #2 AT BENT #3, GIRDER #4,5 SPAN #1 AT BENTS #1&2 THESE LOCATIONS GIRDERS ARE FLOATING UNTIL UNDER LOAD. CORROSION HAS STARTED ON GIRDER ENDS AND ON TOP OF BOTTOM FLANGE ON OUTSIDE GIRDERS						
1000 - Corrosion		268			268		
515 - Steel Protective Coating		3885	sq. ft.	3744	0	141	0
3440 - Effectiveness (Steel Protective Coatings)		141				141	
205 - Reinforced Concrete Column	1- Ben.	4	each	4			
215 - Reinforced Concrete Abutment	1- Ben.	98	ft.	96	2	0	0
	ABUTMENT #1 RIGHT SIDE OF BACKWALL HAS DIAGONAL CRACK.  ABUTMENT #2 LEFT WING IS BROKEN WITH LARGE CRACK.						
1130 - Cracking (RC and Other)		2			2		
234 - Reinforced Concrete Pier Cap	1- Ben.	81	ft.	75	1	5	0
	BENT # 2 CAP HAS 3' LONG AREA OF SPALLS ON BOTTOM CHORD NEAR CENTERLINE WITH EXPOSED SECONDARY REBAR. REBAR HAS MINOR SECTION LOSS. BENT 3 HAS 3' SPALL ON BOTTOM CHORD WITH EXPOSED REBAR WITH MINOR SECTION LOSS.						
1080 - Delamination/Spall/Patched Area		1			1		
1090 - Exposed Rebar		5				5	
305 - Assembly Joint without Seal	1- Ben.	154	ft.	130	24	0	0
	BENT # 2 RIGHT LANE TOP PLATE REMOVED. BENT # 4 FUNCTION IS IMPAIRED BY ACHM OVERLAY. BENT #1 ROAD IRON REMOVED FROM RIGHT LANE						
2360 - Adjacent Deck or Header		24			24		
515 - Steel Protective Coating		462	sq. ft.	0	0	0	462
3440 - Effectiveness (Steel Protective Coatings)		462					462

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## Element Inspection

311 - Movable Bearing	1- Ben.	21	each	21	0	0	0
515 - Steel Protective Coating		42	sq. ft.	42			
313 - Fixed Bearing	1- Ben.	21	each	21	0	0	0
515 - Steel Protective Coating		42	sq. ft.	42			
321 - Reinforced Concrete Approach Slab	1- Ben.	1680	sq. ft.	1680			
SLABS ARE OVERLAYED WITH ASPHALT.							
521 - Concrete Protective Coating		1680	sq. ft.	0	1212	468	0
3540 - Effectiveness (Concrete Protective Coatings)		1680			1212	468	
331 - Reinforced Concrete Bridge Railing	1- Ben.	226	ft.	226			
333 - Other Bridge Railing	1- Ben.	226	ft.	206	20	0	0
SPAN #3 RAIL BOTH SIDES HAVE COLLISION DAMAGE.							
7000 - Damage		20			20		