

# Bridge Inspection Report

**B5706**  
**I 440 EB log 7.11**  
**over**  
**US 165-SEC 9,RR**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

Inspector:

Structure Number: B5706

Inspection Date:

Facility Carried: I 440 EB log 7.11

## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	05/22/2017
(8) STRUCTURE NUMBER	B5706	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 1 1 440 2	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	06 (3) COUNTY CODE 119	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	US 165-SEC 9,RR	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I 440 EB log 7.11		
(9) LOCATION	2.6MI SO OF US 70(I-7)		
(11) MILEPOINT 7.110	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000440010 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE	34.73508 (17) LONGITUDE -92.17012		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	6
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE	5
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	4 (46) NUMBER OF APPROACH		
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE		
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION		
	0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1979 (106) YEAR RECONSTRUCTED	(31) DESIGN LOAD	6
(42) TYPE OF SERVICE	ON 6 UNDER 4	(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES	ON 04 UNDER 02	(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC	49000 (19) BYPASS DETOUR LENGTH	(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	1	(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	87 (49) STRUCTURE LENGTH (ft.)	(67) STRUCTURAL EVALUATION	5
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0 RIGHT 0	(68) DECK GEOMETRY	5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	64.0	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	6
(52) DECK WIDTH, OUT-TO-OUT (ft.)	66.8	(71) WATERWAY ADEQUACY	N
(32) APPROACH ROADWAY WIDTH (ft.)	64.0	(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN	3 (34) SKEW (DEG.)	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	36A) BRIDGE RAILINGS:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	65.0	36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.)	H 24.16	36D) APPROACH GUARDRAIL ENDS:	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H 13.2	(113) SCOUR CRITICAL BRIDGES	N
(56) MIN LATERAL UNDER CLEARANCE (ft.)	4.7	SUFFICIENCY RATING	78.7 STATUS 0
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	35 (75B) WORK DONE BY	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	336.0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	11
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	1
(96) TOTAL PROJECT COST	1006	(101) PARALLEL STRUCTURE DESIGNATION	R
(97) YEAR OF IMPROVEMENT COST ESTIMATE	1997	(102) DIRECTION OF TRAFFIC	1
(114) FUTURE ADT	29812 (115) YEAR OF FUTURE ADT	(103) TEMP STRUCTURE	
	2028	(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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## Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>12 - Reinforced Concrete Deck</b>	1- Ben.	21376	sq. ft.	18170	3206	0	0
Scattered unsealed transverse cracks in all spans.							
1130 - Cracking (RC and Other)		3206			3206		
<b>107 - Steel Open Girder/Beam</b>	1- Ben.	3006	ft.	2628	377	1	0
The previous fatigue cracks have been arrested. No new cracks noted. span 3 beam 4 at diaphragm 3 crack in the lower web. No change since last inspection. All beams have scattered freckling rust on the web and flanges.							
1000 - Corrosion		358			358		
1010 - Cracking		20			19	1	
515 - Steel Protective Coating		29689	sq. ft.	0	25886	3536	267
3440 - Effectiveness (Steel Protective Coatings)		29689			25886	3536	267
<b>205 - Reinforced Concrete Column</b>	1- Ben.	9	each	9			
<b>215 - Reinforced Concrete Abutment</b>	1- Ben.	160	ft.	47	85	28	0
Both back walls have small vertical cracks and map cracks. Bent 5 spalls filled with asphalt in the top of backwall. See photo.							
1080 - Delamination/Spall/Patched Area		28				28	
1130 - Cracking (RC and Other)		85			85		
<b>234 - Reinforced Concrete Pier Cap</b>	1- Ben.	192	ft.	186	6	0	0
Small cracks on the bottom of caps at bents 2 & 3							
1130 - Cracking (RC and Other)		6			6		
<b>302 - Compression Joint Seal</b>	1- Ben.	334	ft.	0	0	202	132
All of the seals leak. The seal at bent 2 has fallen out.							
2310 - Leakage		267				135	132
2330 - Seal Damage		67				67	
<b>310 - Elastomeric Bearing</b>	1- Ben.	72	each	0	72	0	0
All of the fabrica bearing pads are weathered and cracked.							
2230 - Bulging, Splitting, or Tearing		72			72		
<b>321 - Reinforced Concrete Approach Slab</b>	1- Ben.	4348	sq. ft.	4348			
<b>331 - Reinforced Concrete Bridge Railing</b>	1- Ben.	672	ft.	336	336	0	0
1130 - Cracking (RC and Other)		336			336		

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**Bridge Inspection Report**

**Pictures**

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### Bridge Inspection Report

#### Maintenance Needs

**Date Reported:** 5/2/2012 12:00:00 AM

**Priority:** C - Important

**Work Code:**

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**Deficiency Description:**

Bent # 5  
Joint armor missing.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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**Date Reported:** 5/2/2012 12:00:00 AM

**Priority:** C - Important

**Work Code:**

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**Deficiency Description:**

All bents  
Joint seals torn & leaking. Joint seal missing at bent # 2

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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**Date Reported:** 5/7/2013 12:00:00 AM

**Priority:** C - Important

**Work Code:**

---

**Deficiency Description:**

Deck all spans unsealed cracks.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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**Bridge Inspection Report**

**Maintenance Needs**

**Date Reported:** 05/22/2017

**Priority:** C - Important

**Work Code:**

---

**Deficiency Description:**

Span 3 beam 4 at third diaphragm crack in the lower web.

**Work Description:**

---

**Date Repairs Completed:**

**Maintenance Comments:**

---

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### Maintenance Needs

Date Reported: 05/22/2017

Priority: C - Important

Work Code:

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#### Deficiency Description:

Bent 5 spalls filled with asphalt in the top of backwall. See photo

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Open



PHOTO 1      Description      Bent 5 spalls filled with asphalt in the top of backwall