

Bridge Inspection Report

A3724
I-40, WB LNS
over
BAYOU DEVIEW



No overlay on Deck

Inspector:

Structure Number: A3724

Inspection Date:

Facility Carried: I-40, WB LNS

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION						INSPECTIONS						
(1) STATE CODE		056 - Arkansas				(90) INSPECTION DATE		05/19/2015				
(8) STRUCTURE NUMBER		A3724				(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 095				A. FRACTURE CRITICAL DETAIL		N				
(4) PLACE CODE		00000				B. UNDERWATER INSPECTION		N				
(6) FEATURES INTERSECTED		BAYOU DEVIEU				C. OTHER SPECIAL		Y	48	05/19/2015		
(7) FACILITY CARRIED		I-40, WB LNS										
(9) LOCATION		6.37 MI WEST US 49										
(11) MILEPOINT 209.370		(12) BASE HIGHWAY NETWORK 1										
(13A) LRS INVENTORY ROUTE 0000040430		(13B) SUBROUTE NUMBER 00										
(16) LATITUDE 34.868900		(17) LONGITUDE -91.294395										
(98A) BORDER BRIDGE CODE												
PERCENT RESPONSIBILITY		(99) BORDER BRIDGE STRUCT										
STRUCTURE TYPE AND MATERIAL												
(43) STRUCTURE TYPE, MAIN												
A) KIND OF MATERIAL/DESIGN: 4 - Steel continuous												
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder												
(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 22		(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												
(27) YEAR BUILT 1966		(106) YEAR RECONSTRUCTED 1997										
(42) TYPE OF SERVICE ON 1		UNDER 5										
(28) LANES ON 02		UNDER 00										
(29) AVERAGE DAILY TRAFFIC 13000		(19) BYPASS DETOUR LENGTH 5										
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014												
(109) AVERAGE DAILY TRUCK TRAFFIC 48												
GEOMETRIC DATA												
(48) LENGTH OF MAX SPAN (ft.) 60		(49) STRUCTURE LENGTH (ft.) 1322										
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0		RIGHT 0										
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)		40.0										
(52) DECK WIDTH, OUT-TO-OUT (ft.)		42.8										
(32) APPROACH ROADWAY WIDTH (ft.)		42.0										
(33) BRIDGE MEDIAN 0		(34) SKEW (DEG.) 0										
(35) STRUCTURE FLARED 0		(10) INV RTE, MIN VERT CLEAR (ft.) 99.99										
(47) TOTAL HORIZONTAL CLEARANCE (ft.)		43.0										
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99												
(54) VERTICAL UNDER CLEARANCE (ft.)		N 0										
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)		N 99.9										
(56) MIN LATERAL UNDER CLEARANCE (ft.)		0										
PROPOSED IMPROVEMENTS												
(75A) TYPE OF WORK PROPOSED 31		(75B) WORK DONE BY 1										
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 1356.0												
(94) BRIDGE IMPROVEMENT COST (\$)		0										
(95) ROADWAY IMPROVEMENT COST (\$)		247										
(96) TOTAL PROJECT COST		3700										
(97) YEAR OF IMPROVEMENT COST ESTIMATE 1999												
(114) FUTURE ADT 18277		(115) YEAR OF FUTURE ADT 2028										

(90) INSPECTION DATE		05/19/2015			
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(92) CRITICAL FEATURE INSPECTION				(93) CFI DATE	
A. FRACTURE CRITICAL DETAIL		N			
B. UNDERWATER INSPECTION		N			
C. OTHER SPECIAL		Y	48	05/19/2015	
CONDITION					
(58) DECK		7			
(59) SUPERSTRUCTURE 8		(60) SUBSTRUCTURE 7			
(61) CHANNEL & CHANNEL PROTECTION 8		(62) CULVERT N			
LOAD RATING AND POSTING					
(31) DESIGN LOAD		6			
(63) METHOD USED TO DETERMINE OPERATING RATING		1			
(64) OPERATING RATING		60.0			
(65) METHOD USED TO DETERMINE INVENTORY RATING		1			
(66) INVENTORY RATING		36.0			
(70) BRIDGE POSTING		5			
(41) STRUCTURE OPEN/POSTED/CLOSED		A			
APPRAISAL					
(67) STRUCTURAL EVALUATION		7			
(68) DECK GEOMETRY		7			
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL		N			
(71) WATERWAY ADEQUACY		8			
(72) APPROACH ROADWAY ALIGNMENT		8			
(36) TRAFFIC SAFETY FEATURE					
36A) BRIDGE RAILINGS:		1			
36B) TRANSITIONS:		1			
36C) APPROACH GUARDRAIL:		1			
36D) APPROACH GUARDRAIL ENDS:		1			
(113) SCOUR CRITICAL BRIDGES		8			
SUFFICIENCY RATING 0		STATUS 93.1			
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		L			
(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		0			
(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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Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	57065	sq. ft.	57065			0
	All cracks have been sealed with epoxy						
107 - Steel Open Girder/Beam	1- Ben.	7920	ft.	7920			
515 - Steel Protective Coating		64548	sq. ft.	64548			
205 - Reinforced Concrete Column	1- Ben.	84	each	66	0	18	0
	BT.#2 CLM. #3,4 BT.#3,5,6,8,10 CLM.#2,3 BT.#4,9,13,18 CLM.#3 BT.#7,15 CLM.#2 COLUMNS CRACKED AND DELAMINATED AT THESE LOCATIONS						
1130 - Cracking (RC and Other)		18				18	
215 - Reinforced Concrete Abutment	1- Ben.	126	ft.	126			
234 - Reinforced Concrete Pier Cap	1- Ben.	941	ft.	855	1	85	0
	CAPS BENTS #3,4,5,7,9,11,12 CAP ARE CRACKED, DELAMINATED AND SPALLED TYPICAL ON MOST BENTS BETWEEN COLUMNS 2 AND 3 Bent #7 has small spall with exposed rebar no section loss.						
1080 - Delamination/Spall/Patched Area							
1090 - Exposed Rebar		31			1	30	
1130 - Cracking (RC and Other)		55				55	
300 - Strip Seal Expansion Joint	1- Ben.	168	ft.	158	10		
	Small holes starting to develop in seals at various locations.						
310 - Elastomeric Bearing	1- Ben.	150	each	150			
321 - Reinforced Concrete Approach Slab	1- Ben.	1680	sq. ft.	1676	0	4	0
	Abutment #2 approach slab left lane spall with exposed rebar at bridge end.						
1090 - Exposed Rebar		4				4	
331 - Reinforced Concrete Bridge Railing	1- Ben.	2644	ft.	2644			

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Bridge Inspection Report

Maintenance Needs

Date Reported: 06/06/2016

Priority: C - Important

Work Code:

Deficiency Description:

JOINTS AT BENTS #5&6 LEFT LANE HAVE 4 SMALL SPALLS DUE TO FIRE FROM ACCIDENT.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

Stage: Open



PHOTO 2 Description

Inspector:

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Stage: Open



PHOTO 3 Description

Stage: Open



PHOTO 4 Description

Inspector:

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 5/19/2011 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

COLUMNS

BT.#2 CLM. #3,4

BT.#3,5,6,8,10 CLM.#2,3

BT.#4,9,13 CLM.#3

BT.#7,15 CLM.#2

COLUMNS CRACKED AND DELAMINATED AT THESE LOCATIONS

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Bent #2 column #4

Stage: Monitor



PHOTO 2 Description Bent #3 column #3

Inspector:

Inspection Date:

Structure Number: A3724

Facility Carried: I-40, WB LNS

Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 3 Description Bent #4 cap and column #3

Stage: Monitor



PHOTO 4 Description Bent #5 column #3 and bent #5 cap bottom face

Stage: Monitor



PHOTO 5 Description Bent#6 columns #2&3

Stage: Monitor



PHOTO 6 Description Bent #7 column #2

Inspector:

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Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 7 Description Bent #8 column #2&3

Stage: Monitor



PHOTO 9 Description Bent #13 column #3

Stage: Monitor



PHOTO 8 Description Bent #10 cap and column #2

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Maintenance Needs

Date Reported: 5/19/2011 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

CAPS

BENTS #3,4,5,7,9,11,12

CRACKS, DELAMINATION AND SPALLS TYPICAL ON MOST BENTS BETWEEN COLUMNS 2 AND 3

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Bent #3 cap bottom face between columns #2&3



PHOTO 2 Description Bent #4 cap and column #3

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Maintenance Needs



PHOTO 3 Description Bent #5 column #3 and bent #5 cap bottom face

Stage: Monitor



PHOTO 5 Description Bent #10 cap and column #2

Stage: Monitor



PHOTO 4 Description Bent #9 cap bottom between column #2&3



PHOTO 6 Description Bent #11 cap

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Date Reported: 5/28/2013 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

CHANNEL

TREES ARE GROWING BETWEEN BRIDGES BETWEEN BENTS #7&12

Work Description:

Date Repairs Completed:

Maintenance Comments:



PHOTO 1 Description Bent #2 column #4



PHOTO 2 Description Bent #8 column #2&3

Inspector:

Inspection Date:

Structure Number: A3724

Facility Carried: I-40, WB LNS

Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description Bent #13 column #3



PHOTO 5 Description Bent #4 cap and column #3

Stage: Assigned



PHOTO 4 Description Bent #3 column #3

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Bridge Inspection Report

Maintenance Needs

Date Reported: 5/28/2013 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

APPROACH SLABS

ABUTMENT # 1 SLAB HAVE LONGITUDIONAL CRACKS

ABUTMENT # 2 LEFT LANE @ BRIDGE END IS CRACKED AND SPALLED.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Abutment #2 approach slab left lane at bridge end