

Bridge Inspection Report

**B3724
I- 40, EB LNS
over
BAYOU DEVIEW**



**No overlay on
bridge Deck**

Inspector:

Structure Number: B3724

Inspection Date:

Facility Carried: I- 40, EB LNS

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION						INSPECTIONS				
(1) STATE CODE		056 - Arkansas				(90) INSPECTION DATE		05/19/2015		
(8) STRUCTURE NUMBER		B3724				(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 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, EB LNS								
(9) LOCATION		6.37 MI W OF US 49								
(11) MILEPOINT 209.370		(12) BASE HIGHWAY NETWORK 1								
(13A) LRS INVENTORY ROUTE 0000040430		(13B) SUBROUTE NUMBER 00								
(16) LATITUDE 34.86873		(17) LONGITUDE -91.29432								
(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			
(91) DESIGNATED INSPECTION FREQUENCY		24			
(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:		0			
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		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		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.	45652	11413	0	0
	ALL SPANS OPEN TRANSVERSE CRACKS SPACED 5'+-						
1130 - Cracking (RC and Other)		11413			11413		
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	70	1	13	0
	BT.#2,8,13 CLM.#3 BT.#3,10,11,16 CLM.#2 BT.#6,9,12,14 CLM.#2,3 COLUMNS ARE CRACKED AND DELAMINATED						
1080 - Delamination/Spall/Patched Area		1			1		
1130 - Cracking (RC and Other)		13				13	
215 - Reinforced Concrete Abutment	1- Ben.	126	ft.	126			
234 - Reinforced Concrete Pier Cap	1- Ben.	941	ft.	875	10	56	0
	Caps BT. # 4,8,10,11,12,14,17,19,20 ALL HAVE CRACKS, DELAMINATIONS AND SPALLS TYPICAL ON BENTS BETWEEN COLUMNS 2 AND 3						
1080 - Delamination/Spall/Patched Area		56				56	
1130 - Cracking (RC and Other)		10			10		
300 - Strip Seal Expansion Joint	1- Ben.	168	ft.	158	10		
	All seals have holes starting to develop						
310 - Elastomeric Bearing	1- Ben.	150	each	150			
321 - Reinforced Concrete Approach Slab	1- Ben.	1680	sq. ft.	1180		500	0
	ALL SLABS HAVE OPEN TRANSVERSE AND LONGITUDINAL CRACKS						
1130 - Cracking (RC and Other)		500				500	
331 - Reinforced Concrete Bridge Railing	1- Ben.	2644	ft.	2634	10	0	0
	Span #16 right side 10' long area of impact damage.						
7000 - Damage		10			10		

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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:

JOINT TROUGH

BENT # 8 RIGHT SIDE

LAST 3' OF TROUGH HAS FAILED

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 05/19/2015

Priority: C - Important

Work Code:

Deficiency Description:

Approach slabs

Both approach slabs have open transverse and longitudinal cracks

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Abutment#1 approach slab

Stage: Open



PHOTO 2 Description Abutment #2 approach slab

Inspector:

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Bridge Inspection Report

Maintenance Needs

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

Priority: C - Important

Work Code:

Deficiency Description:

APPROACH SLABS

ALL

SLABS HAVE OPEN TRANSVERSE AND LONGITUDINAL CRACKS

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Abutment#1 approach slab

Stage: Open



PHOTO 2 Description Abutment #2 approach slab

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Maintenance Needs

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

Priority: D - Routine

Work Code:

Deficiency Description:

CAPS

BT. # 4,8,10,11,12,14,17,19,20

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

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Bent #14 cap and column #2&3

Stage: Monitor



PHOTO 2 Description Bent #12 cap and column 2&3 cap
condition typical for other caps in report

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Maintenance Needs

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

Priority: D - Routine

Work Code:

Deficiency Description:

COLUMNS

BT.#2,8,13 CLM.#3

BT.#3,10,11,16 CLM.#2

BT.#6,9,12,14 CLM.#2,3

COLUMNS ARE CRACKED AND DELAMINATED

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Bent #2 column #3 front face

Stage: Monitor



PHOTO 2 Description Bent #6 column#2

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Maintenance Needs

Stage: Monitor



PHOTO 3 Description Bent #14 cap and column #2&3

Stage: Monitor



PHOTO 4 Description Bent #13 column #3

Stage: Monitor



PHOTO 5 Description Bent #12 cap and column 2&3 cap condition typical for other caps in report

Stage: Monitor



PHOTO 6 Description Bent #11 column #2

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Stage: Monitor



PHOTO 7 Description Bent #9 column #3

Stage: Monitor



PHOTO 8 Description Bent #8 column #3

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

Priority: D - Routine

Work Code:

Deficiency Description:

DECK
ALL SPANS
OPEN TRANSVERSE CRACKS

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Typical transverse deck crack