

Bridge Inspection Report

A3880
I 40, WB LNS
over
DRAINAGE CANAL



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: A3880

Inspection Date:

Facility Carried: I 40, WB LNS

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	02/09/2016
(8) STRUCTURE NUMBER	A3880	(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 123	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	DRAINAGE CANAL	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I 40, WB LNS		
(9) LOCATION	1 MI W JCT SH 149 & I 40		
(11) MILEPOINT 258.850	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE 0000040510	(13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.13209	(17) LONGITUDE -90.50537		
(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: 1 - Concrete		(59) SUPERSTRUCTURE	5
B) TYPE OF DESIGN/CONSTR: 01 - Slab		(60) SUBSTRUCTURE	7
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	8
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 6		
(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 5		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 00		(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.) 30	(49) STRUCTURE LENGTH (ft.) 90		
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0			
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	38.1		
(52) DECK WIDTH, OUT-TO-OUT (ft.)	40.5		
(32) APPROACH ROADWAY WIDTH (ft.)	38.1		
(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.)	39.0		
(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		APPRAISAL	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(67) STRUCTURAL EVALUATION	5
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 0		(68) DECK GEOMETRY	6
(94) BRIDGE IMPROVEMENT COST (\$)	0	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(95) ROADWAY IMPROVEMENT COST (\$)	0	(71) WATERWAY ADEQUACY	8
(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:	1
		36B) TRANSITIONS:	1
		36C) APPROACH GUARDRAIL:	1
		36D) APPROACH GUARDRAIL ENDS:	1
		(113) SCOUR CRITICAL BRIDGES	5
		SUFFICIENCY RATING	0
		STATUS	84.5
		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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Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
38 - Reinforced Concrete Slab	1- Ben.	3600	sq. ft.	3026	0	574	0
<div>Note: 1.5" ACHM overlay on deck.</div>	ACHM OVERLAY HAS RAVELING AT JOINTS FOR FULL LENGTH OF JOINTS. SEVERAL LARGE SPALLS IN JOINTS ALL SPANS. ALL SPANS OF THE SOFIT HAVE SEVERAL OPEN LONGITUDINAL CRACKS / DELAMINATIONS WITH MODERATE EFFLORESCENCE AND AREAS OF RUST STAIN. ONE TO TWO LARGE SPALLS AT SONO-VOID TUBES MADE TO DRAIN TUBES. SEVERAL EXPOSED REBAR TYPICAL WITH NO MINOR LOSS. LEFT AND RIGHT SIDE OF SLABS AT BENT #2 ARE CRACKED AND DELAMINATED.						
	1080 - Delamination/Spall/Patched Area	206				206	
	1090 - Exposed Rebar	8				8	
	1120 - Efflorescence/Rust Staining	360				360	
	510 - Wearing Surfaces	3465	sq. ft.	1940	1305	220	0
3210 - Delamination/Spall/Patched Area/Pothole (Wearing Surfaces)		1525			1305	220	
215 - Reinforced Concrete Abutment	1- Ben.	93	ft.	93			
227 - Reinforced Concrete Pile	1- Ben.	14	each	14			
234 - Reinforced Concrete Pier Cap	1- Ben.	82	ft.	44	3	35	0
	BENTS #2,3 HAVE MODERATE SPALLS ON BOTTOM CHORD BETWEEN PILING WITH EXPOSED SECONDARY REBAR DUE TO POOR COVERAGE. REBAR HAS MINOR SECTION LOSS. BENT#2 BACK FACE OF CAP AT THE KEY WAY CL HAS A SPALL. BENT #2 CAP AHEAD FACE LEFT KEY WAY AT TOP IS CRACKED. BENT #2 CAP RIGHT END SMALL SPALL WITH EXPOSED REBAR MINOR SECTION LOSS.						
	1080 - Delamination/Spall/Patched Area	6			3	3	
	1090 - Exposed Rebar	32				32	
321 - Reinforced Concrete Approach Slab	1- Ben.	1680	sq. ft.	1640		40	
	ASPHALT OVERLAY ON ABUTMENT #1 APPROACH SLAB HAS SEVERAL LARGE SPALLS.						
	331 - Reinforced Concrete Bridge Railing	1- Ben.	180	ft.	180		