

Bridge Inspection Report

A3251
I30-WB log 110.78
over
CR32;US70 EB & WB;CRK



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: A3251

Inspection Date:

Facility Carried: I30-WB log 110.78

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National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	08/14/2018
(8) STRUCTURE NUMBER	A3251	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 1 1 30 4	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	06 (3) COUNTY CODE 125	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	CR32;US70 EB & WB;CRK	C. OTHER SPECIAL	Y 24 08/07/2017
(7) FACILITY CARRIED	I30-WB log 110.78		
(9) LOCATION	5.9 MI SW SH 5 @ BENTON		
(11) MILEPOINT 110.780	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000030220 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.53307	(17) LONGITUDE -92.67728		
(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 (60) SUBSTRUCTURE 6
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION	N (62) CULVERT N
(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 6	(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		LOAD RATING AND POSTING	
(27) YEAR BUILT 1963	(106) YEAR RECONSTRUCTED 1984	(31) DESIGN LOAD	6
(42) TYPE OF SERVICE ON 6 UNDER 6		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 05		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 48440	(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 1		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 75	(49) STRUCTURE LENGTH (ft.) 422	(67) STRUCTURAL EVALUATION	5
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	7
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 40.0		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	3
(52) DECK WIDTH, OUT-TO-OUT (ft.) 43		(71) WATERWAY ADEQUACY	N
(32) APPROACH ROADWAY WIDTH (ft.) 40.0		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 20	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	36A) BRIDGE RAILINGS:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 41.0		36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.) H 14.92		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) H 4.5		(113) SCOUR CRITICAL BRIDGES	8
(56) MIN LATERAL UNDER CLEARANCE (ft.) 1.8		SUFFICIENCY RATING	77.5 STATUS 2
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 0		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	01
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	1
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	L
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	1
(114) FUTURE ADT 20617	(115) YEAR OF FUTURE ADT 2028	(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
12 - Reinforced Concrete Deck	1- Ben.	18146	sq. ft.	8840	8944	362	0
	Deck: Large unsealed transverse cracks up to 1/8" wide. Spall in span 1 right lane. Soffit: Span 6, bay 3 at abutment 7 spall with exposed rebar. Bay 3, all spans transverse cracks with efflorescence.						
1080 - Delamination/Spall/Patched Area		1		0	1	0	0
1090 - Exposed Rebar		1		0	1	0	0
1120 - Efflorescence/Rust Staining		100		0	100	0	0
1130 - Cracking (RC and Other)		1608		0	1246	362	0
1190 - Abrasion/Wear (PSC/RC)		7596		0	7596	0	0
107 - Steel Open Girder/Beam	1- Ben.	2940	ft.	1133	1725	82	0
	Span 5 girders 1,2 and 3 have traffic impact Beam ends at bents have flaking rust due to leaking joint seals. Span 4 Beam 5 diaphragm 3 has missing bolt. All beams have freckling rust to bottom flanges.						
1000 - Corrosion		1771		0	1700	71	0
1020 - Connection		1		0	0	1	0
7000 - Damage		35		0	25	10	0
515 - Steel Protective Coating		26019	sq. ft.	0	6084	6615	13320
205 - Reinforced Concrete Column	1- Ben.	20	each	16	4	0	0
	Bent 3 column 2 spall at ground line Bent 3 column 3 spall exposed rebar and delam. Bent 3 column 4 has spall. Bent 6 column 2 spalls with exposed rebar.						
1080 - Delamination/Spall/Patched Area		2		0	2	0	0
1090 - Exposed Rebar		2		0	2	0	0
215 - Reinforced Concrete Abutment	1- Ben.	94	ft.	79	15	0	0
	vertical cracks in both abutment back walls. Bent 7 abutment has spall with exposed rebar.						
1090 - Exposed Rebar		1		0	1	0	0
1130 - Cracking (RC and Other)		14		0	14	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	202	ft.	199	3	0	0
	Bent 4 cap, spall with exposed rebar, ahead face. Bent 5 cap, spall with exposed rebar, ahead side. Bent 5 cap has delam right side.						
1080 - Delamination/Spall/Patched Area		1		0	1	0	0
1090 - Exposed Rebar		2		0	2	0	0
302 - Compression Joint Seal	1- Ben.	298	ft.	0	130	40	128
	joints seal at bents 2,4 and 5 missing. other joints torn.						
2310 - Leakage		298		0	130	40	128

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311 - Movable Bearing	1- Ben.	42	each	0	42	0	0
1000 - Corrosion		42		0	42	0	0
313 - Fixed Bearing	1- Ben.	42	each	0	38	4	0
1000 - Corrosion		42		0	38	4	0
321 - Reinforced Concrete Approach Slab	1- Ben.	2688	sq. ft.	2552	70	66	0
cracks in slab							
331 - Reinforced Concrete Bridge Railing	1- Ben.	840	ft.	840	0	0	0