

Bridge Inspection Report

B5582
I-630 EB Log 5.80
over
ROCK CREEK



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: B5582

Inspection Date:

Facility Carried: I-630 EB Log 5.80

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	10/09/2017
(8) STRUCTURE NUMBER	B5582	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 1 1 630 2	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	06 (3) COUNTY CODE 119	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	39020	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	ROCK CREEK	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I-630 EB Log 5.80		
(9) LOCATION	1.6MI E OF I 430		
(11) MILEPOINT 5.799	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000630210 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.74659	(17) LONGITUDE -92.36416		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	7
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE	6 (60) SUBSTRUCTURE 6
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION	8 (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 4	(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 1977	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	5
(42) TYPE OF SERVICE ON 1 UNDER 5		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 03 UNDER 00		(64) OPERATING RATING	56
(29) AVERAGE DAILY TRAFFIC 129884	(19) BYPASS DETOUR LENGTH 1	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	34
(109) AVERAGE DAILY TRUCK TRAFFIC 3		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 65	(49) STRUCTURE LENGTH (ft.) 262	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0.5		(68) DECK GEOMETRY	6
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 56.1		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 59		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 55.1		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 3	(34) SKEW (DEG.) 40	(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.) 57.1		36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.) N 0		36D) APPROACH GUARDRAIL ENDS:	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) N 99.9		(113) SCOUR CRITICAL BRIDGES	8
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING	0 STATUS 83.1
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	11
(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 69000	(115) YEAR OF FUTURE ADT 2034	(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.	15458	sq. ft.	13049	2408	1	0
	Transverse cracks in all spans up to 0.040 wide. Spall in span 4.						
1080 - Delamination/Spall/Patched Area		1				1	
1130 - Cracking (RC and Other)		2408			2408		
107 - Steel Open Girder/Beam	1- Ben.	2048	ft.	1974	74	0	0
	Beam ends at bent have active rust with minor pitting at upper web haunch area due to leaking joints. All diaphragm brackets have bad weld detail the weld raps around the ends of brackets.						
1000 - Corrosion		74			74		
515 - Steel Protective Coating		15176	sq. ft.	0	14783		393
205 - Reinforced Concrete Column	1- Ben.	12	each	3	9	0	0
	Columns in bent 3 have abrasion. Bent 4, column 1, vertical crack at bottom of cap						
1130 - Cracking (RC and Other)		1			1		
1190 - Abrasion/Wear (PSC/RC)		8			8		
215 - Reinforced Concrete Abutment	1- Ben.	151	ft.	138	13	0	0
1130 - Cracking (RC and Other)		13			13		
234 - Reinforced Concrete Pier Cap	1- Ben.	208	ft.	156	40	12	0
	Bent 2 cap ahead under beams 6 & 7. The cap has a horizontal crack 13 foot long and up to 0.025" wide. Bent 3 cap back . Horizontal crack up to 0.035 wide with rust stains. in the cap under beams 2,3 & 4. Common ahead face. Bent 4 cap ahead between column 2 & 3 spalls with exposed rebar. Small spalls on the caps of bents 2 & 4 ahead face.						
1080 - Delamination/Spall/Patched Area		6			6		
1090 - Exposed Rebar		4				4	
1130 - Cracking (RC and Other)		42			34	8	
302 - Compression Joint Seal	1- Ben.	280	ft.	44	0	236	0
	Most of the joint seal in all spans has lost bond and is leaking.						
2310 - Leakage		236				236	
311 - Movable Bearing	1- Ben.	32	each	0	16	16	0
	All bents have bearings with laminating rust between bearing and masonry plate.						
1000 - Corrosion		32			16	16	
313 - Fixed Bearing	1- Ben.	32	each	0	16	16	0
	All bents have bearings with laminating rust between bearing and masonry plate.						
1000 - Corrosion		32			16	16	
321 - Reinforced Concrete Approach Slab	1- Ben.	5200	sq. ft.	5138	54	8	0

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1080 - Delamination/Spall/Patched Area		4				4	
1130 - Cracking (RC and Other)		58			54	4	
330 - Metal Bridge Railing	1- Ben.	256	ft.	246	10	0	0
7000 - Damage		10			10		
331 - Reinforced Concrete Bridge Railing	1- Ben.	512	ft.	480	32	0	0
1130 - Cracking (RC and Other)		32			32		

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Maintenance Needs

Date Reported: 10/13/2015

Priority: C - Important

Work Code: Replace

Deficiency Description:

Joint seals have lost bond and leak.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Maintenance Needs

Date Reported: 10/13/2015

Priority: C - Important

Work Code:

Deficiency Description:

Bent 2 cap ahead under beams 6 & 7. The cap has a horizontal crack 13 foot long and up to 0.025" wide. See photo. Bent 3 cap back . Horizontal crack up to 0.035 wide with rust stains. in the cap under beams 2,3 & 4. Common ahead face. See photo Bent 4 cap ahead between column 2 & 3 spalls with exposed rebar. See photo. Small spalls on the caps of bents 2 & 4 ahead face.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Bent 2 cap ahead under beams 6 & 7. The cap has a horizontal crack 13 foot long and up to 0.025" wide.

Stage: Open



PHOTO 2 Description Bent 3 cap back . Horizontal crack up to 0.035 wide with rust stains. in the cap under beams 2,3 & 4

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Maintenance Needs

Stage: Open



PHOTO 3 Description Bent 4 cap ahead between column 2 & 3 spalls with exposed rebar.

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Maintenance Needs

Date Reported: 10/09/2017

Priority: C - Important

Work Code:

Deficiency Description:

Bent 2 span 2 left side, guardrail damage.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

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Maintenance Needs

Date Reported: 10/09/2017

Priority: C - Important

Work Code:

Deficiency Description:

Spall in span 4, middle lane.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

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Maintenance Needs

Date Reported: 10/13/2015

Priority: C - Important

Work Code:

Deficiency Description:

Deck on all spans have unsealed transverse up to 0.040" wide Most all joint seals are torn or leaking causing bearings to rust.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 10/13/2015

Priority: C - Important

Work Code:

Deficiency Description:

Approach slab at abutment 1 has a spall at joint.

Work Description:

Date Repairs Completed:

Maintenance Comments:
