

Bridge Inspection Report

02861

US 62-20- LM 14.39

over

LITTLE CACHE RIVER



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: 02861

Inspection Date:

Facility Carried: US 62-20- LM 14.39

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	11/08/2016
(8) STRUCTURE NUMBER	02861	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 62 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	10 (3) COUNTY CODE 021	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	LITTLE CACHE RIVER	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 62-20- LM 14.39		
(9) LOCATION	1.75 MI E OF MCDOUGAL		
(11) MILEPOINT 14.390	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000062200 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 36.	(17) LONGITUDE -90.35865363475483		
	43387373747577		
(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: 2 - Concrete continuous		(59) SUPERSTRUCTURE	6
B) TYPE OF DESIGN/CONSTR: 01 - Slab		(60) SUBSTRUCTURE	6
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	6
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
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	6		
(108B) DECK MEMBRANE	0		
(108C) DECK PROTECTION	0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1953	(31) DESIGN LOAD	4
(106) YEAR RECONSTRUCTED	0000	(63) METHOD USED TO DETERMINE OPERATING RATING	1
(42) TYPE OF SERVICE	ON 1 UNDER 5	(64) OPERATING RATING	59.0
(28) LANES	ON 02 UNDER 00	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(29) AVERAGE DAILY TRAFFIC	1100	(66) INVENTORY RATING	35.1
(19) BYPASS DETOUR LENGTH	4	(70) BRIDGE POSTING	5
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(41) STRUCTURE OPEN/POSTED/CLOSED	A
(109) AVERAGE DAILY TRUCK TRAFFIC	1		
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	28	(67) STRUCTURAL EVALUATION	6
(49) STRUCTURE LENGTH (ft.)	165	(68) DECK GEOMETRY	4
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 1.4 RIGHT 1.4	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	25.9	(71) WATERWAY ADEQUACY	8
(52) DECK WIDTH, OUT-TO-OUT (ft.)	29.5	(72) APPROACH ROADWAY ALIGNMENT	8
(32) APPROACH ROADWAY WIDTH (ft.)	29.9	(36) TRAFFIC SAFETY FEATURE	
(33) BRIDGE MEDIAN	0	36A) BRIDGE RAILINGS:	0
(34) SKEW (DEG.)	33	36B) TRANSITIONS:	0
(35) STRUCTURE FLARED	0	36C) APPROACH GUARDRAIL:	0
(10) INV RTE, MIN VERT CLEAR (ft.)	99.99	36D) APPROACH GUARDRAIL ENDS:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	27.2	(113) SCOUR CRITICAL BRIDGES	5
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	SUFFICIENCY RATING	0
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	STATUS	79.5
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9		
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0		
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	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	06
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT	1327	(103) TEMP STRUCTURE	
(115) YEAR OF FUTURE ADT	2028	(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	5
		(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.	4868	sq. ft.	4481	224	163	0
1080 - Delamination/Spall/Patched Area		73				73	
1090 - Exposed Rebar		23				23	
1120 - Efflorescence/Rust Staining		67				67	
1130 - Cracking (RC and Other)		224			224		
510 - Wearing Surfaces		4290	sq. ft.	2945	0	1345	0
3220 - Crack (Wearing Surface)		1345				1345	
215 - Reinforced Concrete Abutment	1- Ben.	94	ft.	94			
227 - Reinforced Concrete Pile	1- Ben.	30	each	26	0	4	0
1130 - Cracking (RC and Other)		4				4	
234 - Reinforced Concrete Pier Cap	1- Ben.	193	ft.	145	5	43	0
1080 - Delamination/Spall/Patched Area		23				23	
1090 - Exposed Rebar		9				9	
1120 - Efflorescence/Rust Staining		11				11	
1130 - Cracking (RC and Other)		5			5		
333 - Other Bridge Railing	1- Ben.	330	ft.	0	313	17	0
1000 - Corrosion		313			313		
1080 - Delamination/Spall/Patched Area		8				8	
1130 - Cracking (RC and Other)		9				9	

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Bridge Inspection Report

Maintenance Needs

Date Reported: 12/11/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Channel scour since 1993

Scour reduced pile penetration at Bent 2 = 5.0 ft., Bent 5 = 3.4 - due to large drift. See photo 2012.

Some Drift lodged on Bent 3.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 12/11/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Bent 3 Cap

1 ft. on Rt. end of cap has heavy deterioration and section loss with rebar exposed.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

Structure Number: 02861

Inspection Date:

Facility Carried: US 62-20- LM 14.39

Bridge Inspection Report

Maintenance Needs

Date Reported: 12/11/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Bottom of Decks have some cracking, rust stains, efflorescence, delaminated areas and some small spalled areas with exposed rebar:

Right side of Span 2 Drain Opening has a 24in. x 36in. x 1 1/2in. deep spall with exposed rebar, see 2016 photo.

Left side of Span 2 Drain Opening has a 30in. x 12in. x 1 1/2in deep spall with exposed rebar.

Left side of Span 3 near Drain Opening has a 30in. X 12in. X 1 1/2in. deep spall with exposed rebar.

Right side of Span 5 near Drain Opening has a 12in. x 6in. x 1in. deep spall with exposed rebar, see 2016 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Inspector:

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Maintenance Needs

Date Reported: 12/11/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Rt. curb Spans 3,4,& 5.
Heavy deterioration and section loss.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 12/11/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Asphalt overlay top of deck
several minor unsealed cracks, open unsealed cracks at joints allowing heavy leakage on caps bents 3,&5.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Maintenance Needs

Date Reported: 12/11/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

1ft. on right end of Concrete Cap Bent 3 is spalled 2 in. deep with exposed rebar.

Concrete Cap Bents 3&5 have cracking, rust stains, efflorescence, delamination with small spalled areas and exposed rebar.

Concrete Cap Bent 4 has 1LF of a small spall with rebar exposed due to the lack of steel coverage.

2ft. on each end of Concrete Cap Bent 5 is spalled 3 in. deep with exposed rebar, see 2016 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description

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Maintenance Needs

Date Reported: 11/08/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Bent 5 Piles 1, 2, 4 & 6 has vertical cracks and delaminated areas in top 3 ft. of pile, see 2016 photo of Pile 2 for typical.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

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Date Reported: 11/08/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Bridge Railing has 90% paint deterioration with some rust and pitting.

17 Bridge Rail Concrete Post are cracked, broke and have some rebar exposed.

Right side Bridge Rail Post over Bent 5 Cap has chemical deterioration, and broke with exposed rebar, see 2016 photo.

Left side of Bridge Rail Post over Bent 5 Cap has chemical deterioration, and broke with exposed rebar, see 2016 photo.

Concrete Curbs have some deterioration with some rebar exposed, especially at Bent 5.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

Stage: Open



PHOTO 2 Description