

Bridge Inspection Report

06452
US 82-08 LM 1.12
over
Ouachita River Relief



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

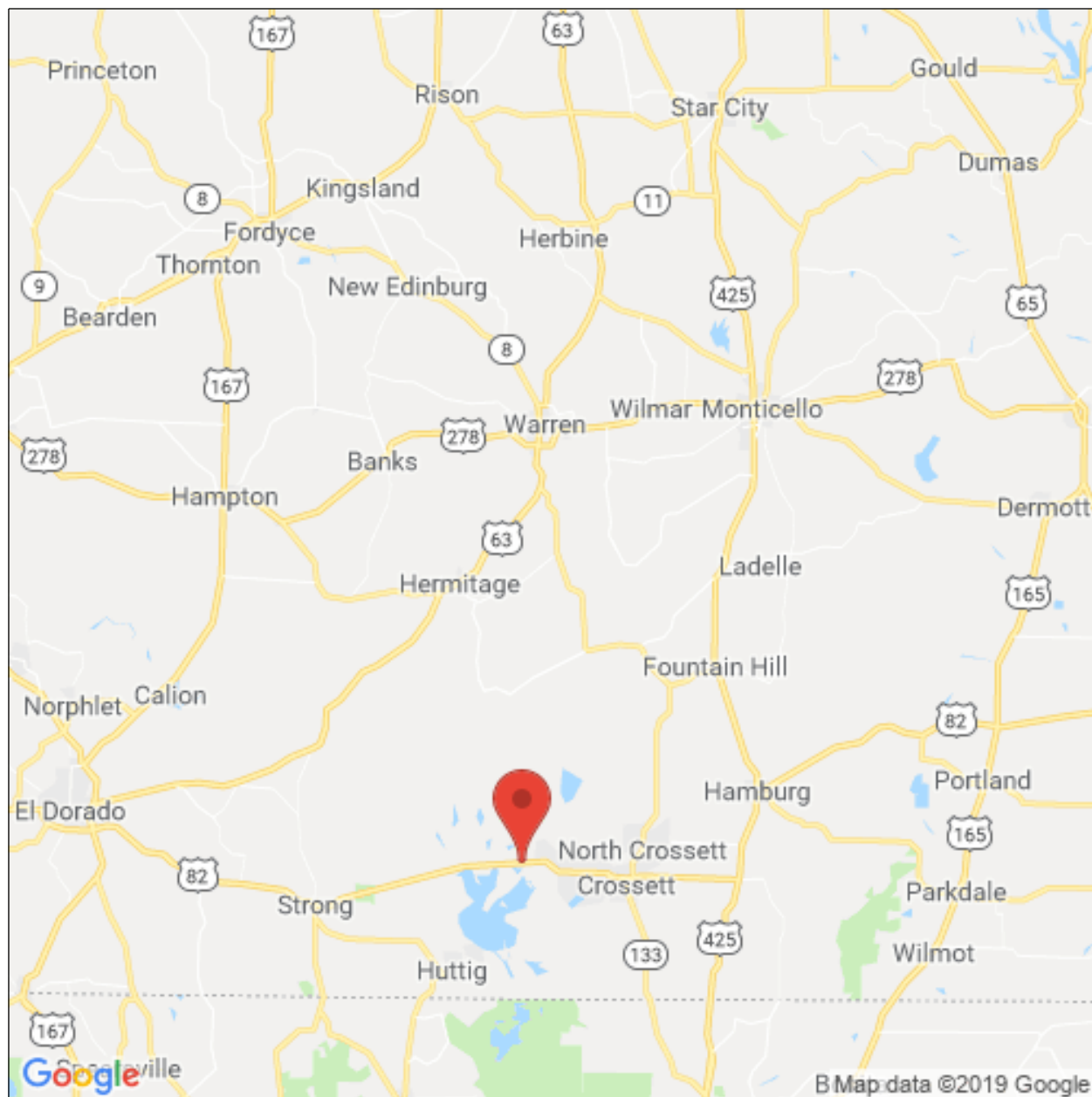
Structure Number: 06452

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Facility Carried: US 82-08 LM 1.12

Bridge Inspection Report

Location Map



Latitude: 33.15142

Longitude: -92.09416

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Bridge Inspection Report

Executive Summary

Beginning of structure toward Union County Line, Quachita River, West End.

04-30-2019 GGL-KLR: NBI and element quantities field measured and verified against plans.

05-01-2007, Dropping UW inspection due to sub-str. elements are not continuously submerged. Durations of high water events occur. No signs of channel scour up or down stream. Rock riprap on slopes at Abt's. NBI Items #60 and #61 will represent all elements that occasionally stand in water. RLW

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National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	04/30/2019
(8) STRUCTURE NUMBER	06452	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 82 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	02 (3) COUNTY CODE 003	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Ouachita River Relief	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 82-08 LM 1.12		
(9) LOCATION	1.12 Mi E UnionCo-Crosstt		
(11) MILEPOINT 1.120	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000082080 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 33.15142	(17) LONGITUDE -92.09416		
(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: 1 - Concrete		(59) SUPERSTRUCTURE	6 (60) SUBSTRUCTURE 7
B) TYPE OF DESIGN/CONSTR: 04 - Tee Beam		(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 7	(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 1997	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	5
(42) TYPE OF SERVICE ON 1 UNDER 9		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 00		(64) OPERATING RATING	60
(29) AVERAGE DAILY TRAFFIC 2700	(19) BYPASS DETOUR LENGTH 72	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	36
(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.) 35	(49) STRUCTURE LENGTH (ft.) 245	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	6
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 40.2		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 43.2		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 40.0		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 0	(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.) 41.3		36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.) N 0		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) N 99.9		(113) SCOUR CRITICAL BRIDGES	5
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING	83.9 STATUS 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	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
(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 3042	(115) YEAR OF FUTURE ADT 2027	(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	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
16 - Reinforced Concrete Top Flange	1- Ben.	10577	sq. ft.	8830	717	1030	0
	Deck: 43.17' wide x 245' long. Some unsealed hairline- to moderate-sized cracks, mostly longitudinal along edges of Girders 2-4 (in main lanes) – heaviest and largest cracking on Spans 1-5 (less and smaller on Spans 6-7), with a few diagonal (corner) cracks near bents. A couple scattered transverse cracks. Soffit: Some minor to moderate efflorescence reflective of diagonal (corner) cracks.						
1120 - Efflorescence/Rust Staining		25		0	15	10	0
1130 - Cracking (RC and Other)		1722		0	702	1020	0
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	1225	ft.	1075	150	0	0
	Girders: 5 per span / Span 1-7 (35' each span = 245' total span). Scattered hairline- to minor-sized vertical (flexure) cracks – from 2 to 8 cracks per span with some efflorescence beginning to show. Some scattered cracking in diaphragm walls with considerable efflorescence at cracks and at girders.						
1120 - Efflorescence/Rust Staining		40		0	40	0	0
1130 - Cracking (RC and Other)		110		0	110	0	0
215 - Reinforced Concrete Abutment	1- Ben.	96	ft.	90	6	0	0
	Abutments: 48' each (with wingwalls) / Bents 1 & 8. Hairline vertical cracks in both abutments with light efflorescence at diaphragms.						
1130 - Cracking (RC and Other)		6		0	6	0	0
227 - Reinforced Concrete Pile	1- Ben.	30	each	30	0	0	0
	Pile: 5 per bent / Bents 2-6.						
234 - Reinforced Concrete Pier Cap	1- Ben.	264	ft.	261	3	0	0
	Caps: 44' each / Bents 2-7. Bent 2: Very small spall at key-way near Pile 2. Bent 5: Small spall with exposed rebar on bottom face between Piles 1 & 2.						
1080 - Delamination/Spall/Patched Area		1		0	1	0	0
1090 - Exposed Rebar		2		0	2	0	0

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Element Inspection

301 - Pourable Joint Seal	1- Ben.	352	ft.	292	0	60	0
Joints: 44' each / Bents 1-8. All bents: Poured joint material is mostly intact but has lost adhesion in some places and allowing storm-water to leak through onto ends of deck and girders and onto cap. Stage construction joint on left side (between Girders 1 & 2): Poured joint material is mostly intact but has lost adhesion in some places and allowing storm-water to leak through joint (Not included in element quantities).							
2320 - Seal Adhesion		60		0	0	60	0
321 - Reinforced Concrete Approach Slab	1- Ben.	1776	sq. ft.	1694	30	52	0
Approach slab: 2 each (24.33' wide x 36.5' long = 888 sqft each) / Bents 1 & 8.. Both approach slabs have scattered cracks.							
1130 - Cracking (RC and Other)		82		0	30	52	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	490	ft.	490	0	0	0
Railing: 245' each side.							

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Pictures

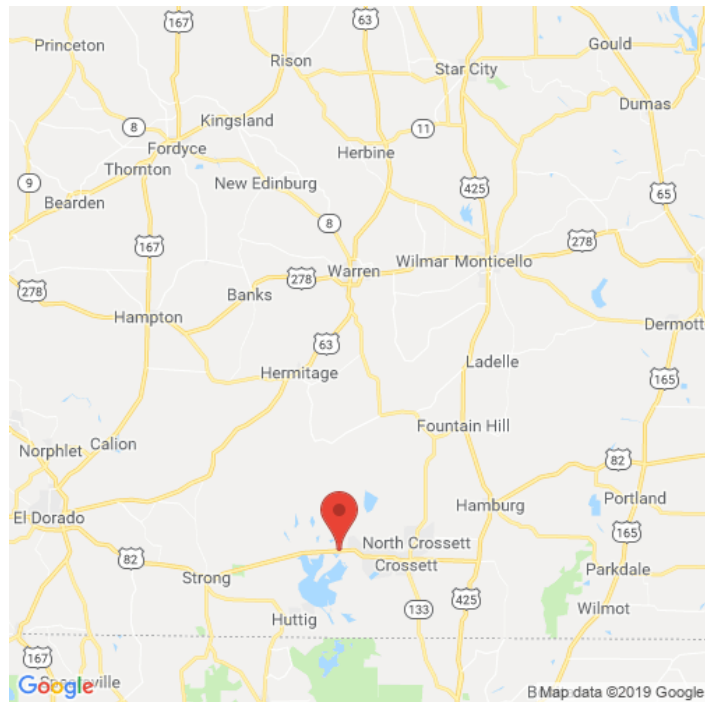


PHOTO 1

Description

PHOTO 1

Description

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Pictures

PHOTO 1

Description

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Bridge Inspection Report

Sketches

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/30/2019

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Joints -

All bents: Poured joint material is mostly intact but has lost adhesion in some places and allowing storm-water to leak through onto ends of deck and girders and onto cap.

Stage construction joint on left side (between Girders 1 & 2): Poured joint material is mostly intact but has lost adhesion in some places and allowing storm-water to leak through joint.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Joint - Bent 1 : Loss of adhesion

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Date Reported: 04/30/2019

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Deck:

Some unsealed hairline- to moderate-sized cracks, mostly longitudinal along edges of Girders 2-4 (in main lanes) – heaviest and largest cracking on Spans 1-5 (less and smaller on Spans 6-7), with a few diagonal (corner) cracks near bents.

A couple scattered transverse cracks.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Deck - Span 1 at Bent 1 left: Diagonal cracking

Stage: Open



PHOTO 2 Description Deck - Span 1 right : Cracking

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Maintenance Needs

Stage: Open



PHOTO 3 Description Deck - Span 4: Cracking

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Maintenance Needs

Date Reported: 04/12/2017

Priority: D - Routine

Work Code: N/A

Deficiency Description:

All spans have trees and vegetation growing under bridge.

Work Description:

David: remove as soon as possible, advise me when complete

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description End-slope - Span 6: Vegetation

Stage: Open



PHOTO 2 Description Span 2 trees and vegetation growing under bridge. Common all spans.