

Bridge Inspection Report

A0733
US 79-10 LM 5.20
over
Wabbaseka Bayou



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

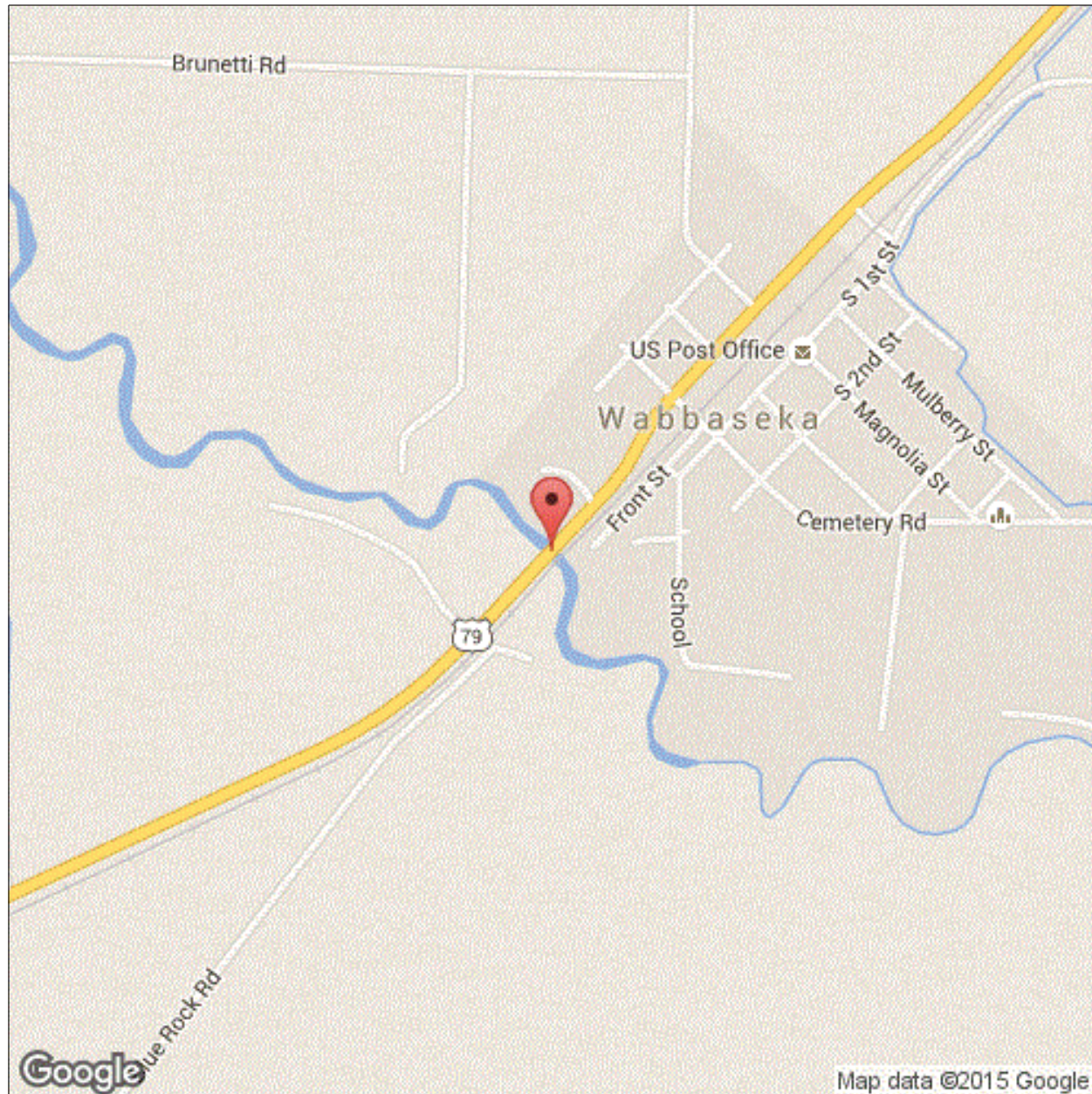
Inspection Date:

Structure Number: A0733

Facility Carried: US 79-10 LM 5.20

Bridge Inspection Report

Location Map



Latitude: 34.35862

Longitude: -91.79924

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National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	01/03/2018
(8) STRUCTURE NUMBER	A0733	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 79 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	02 (3) COUNTY CODE 069	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Wabbaseka Bayou	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 79-10 LM 5.20		
(9) LOCATION	SE of Wabbaseka limits		
(11) MILEPOINT 5.200	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000079100 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.35862	(17) LONGITUDE -91.79924		
(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: 01 - Slab		(61) CHANNEL & CHANNEL PROTECTION	7 (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 1952	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	4
(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	49.1
(29) AVERAGE DAILY TRAFFIC 3500	(19) BYPASS DETOUR LENGTH 40	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	30.0
(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.) 25	(49) STRUCTURE LENGTH (ft.) 175	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1.5 RIGHT 1.5		(68) DECK GEOMETRY	3
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 25.9		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 29.6		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 34.1		(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:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 28.9		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:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) N 99.9		(113) SCOUR CRITICAL BRIDGES	5
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING	2 STATUS 60.7
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED 31	(75B) WORK DONE BY 1	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 206.0		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(94) BRIDGE IMPROVEMENT COST (\$) 0		(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
(95) ROADWAY IMPROVEMENT COST (\$) 400		(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST 1211		(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE 2002		(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 4940	(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
38 - Reinforced Concrete Slab	1- Ben.	5180	sq. ft.	683	55	4442	0
	Deck: 29.6' wide x 175' long. All spans: Some abrasive wear from traffic across most of travel lanes with map cracking covering most all of deck surface. NOTE: State forces have patched various spalling areas in deck. (approximately 42 sqft) - some wearing/tattering of edge of patches at joints in wheel ruts. Soffit: Some scattered delaminations and small areas of spalling with some minor steel exposed, especially near drains, along gutterlines, and near caps. Span 3 @ Bent 4: Spalling with steel exposed adjacent to cap (2' wide x 8' long) on left side. NOTE: Construction joint just right of centerline (14' from left gutter line) with some reflective efflorescence and rust staining showing on soffit.						
1080 - Delamination/Spall/Patched Area		55			55		
1090 - Exposed Rebar		67				67	
1120 - Efflorescence/Rust Staining		175				175	
1130 - Cracking (RC and Other)		3600				3600	
1190 - Abrasion/Wear (PSC/RC)		600				600	
215 - Reinforced Concrete Abutment	1- Ben.	80	ft.	60	0	20	0
	Abutments: 40' each / Bents 1 & 8. Bent 1 left: Patch has come loose exposing 20' of rebar with section loss. 1-3-2018 KLR-GGL						
1080 - Delamination/Spall/Patched Area		20				20	
227 - Reinforced Concrete Pile	1- Ben.	24	each	24			
	Piling: 4 per bent / Bents 2-7. Bent 3 Pile 3: Small chip on right side about 10' down from cap.						
234 - Reinforced Concrete Pier Cap	1- Ben.	168	ft.	129	22	17	0
	Caps: 28' each / Bents 2-7. NOTE: State forces have grouted over spalling and delaminated areas (Some cracking and deterioration of grout beginning): Bent 2 left end: Spalling with steel exposed. (2') Bent 4 left end: Delaminating and spalling on ahead side with some steel exposed. (2') Delaminations on ahead side. (7'). Bent 5: Delaminating on back side near left end. (3') Exposed rebar on bottom and face with section loss (2'). Bent 6: Cracking on back and ahead sides near bottom corners at centerline. (4'). Cracking at cold joint in center. (7').						
1080 - Delamination/Spall/Patched Area		18			11	7	
1090 - Exposed Rebar		7			4	3	
1130 - Cracking (RC and Other)		14			7	7	

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Element Inspection

301 - Pourable Joint Seal	1- Ben.	156	ft.	0	0	156	0
	Joints: 26' each / Bents 2-7. All bents: No pourable joint seal in place. Joints impacted with dirt and debris. Bent 6 right: Some minor spalling of deck adjacent to joint between inside "wheel rut" and centerline.						
2350 - Debris Impaction		156				156	
330 - Metal Bridge Railing	1- Ben.	350	ft.	350			
	Railing: 175' each side. Coating: 2.5 square feet per linear feet of railing. Metal railing on concrete posts. Finish coat of paint has worn through with primer showing in many places - some scattered areas of paint flaking.						
515 - Steel Protective Coating		875	sq. ft.	0	438	437	0
3410 - Chalking (Steel Protective Coatings)		437				437	
3420 - Peeling/Bubbling/Cracking (Steel Protective Coatings)		438			438		

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Pictures



No asphalt overlay on the bridge deck



Span 2 at centerline -
spall with exposed
rebar



Soffit - Span 6 -
exposed rebar

Also on Span 5
and Bent 5 -
exposed rebar



Bent 6 -
cracking



Bent 4 -
delamination



Abutment
Bent 1 rebar
exposed

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Maintenance Needs

Date Reported: 12/16/2011 12:00:00 AM

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Joints – all bents:

No pourable joint seal in place. Joints impacted with dirt and debris.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description

Inspector:

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Maintenance Needs

Date Reported: 01/03/2018

Priority: C - Important

Work Code: N/A

Deficiency Description:

Signs - Bent 1 left and Bent 8 right: No object markers or posts in place.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Roadway view

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Maintenance Needs

Date Reported: 01/03/2018

Priority: G - General/ Preventive maintenance

Work Code: N/A

Deficiency Description:

Endslopes - Bents 1 and 8: Small trees, bushes, and other vegetation growing up along edge of bridge with some vines growing up bents.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Endslope - Span 6 Right: Trees

Stage: Open



PHOTO 2 Description Endslope - Bent 7: Vegetation