

Bridge Inspection Report

02831

US 79B-09 LM 15.16

over

Main Ditch



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

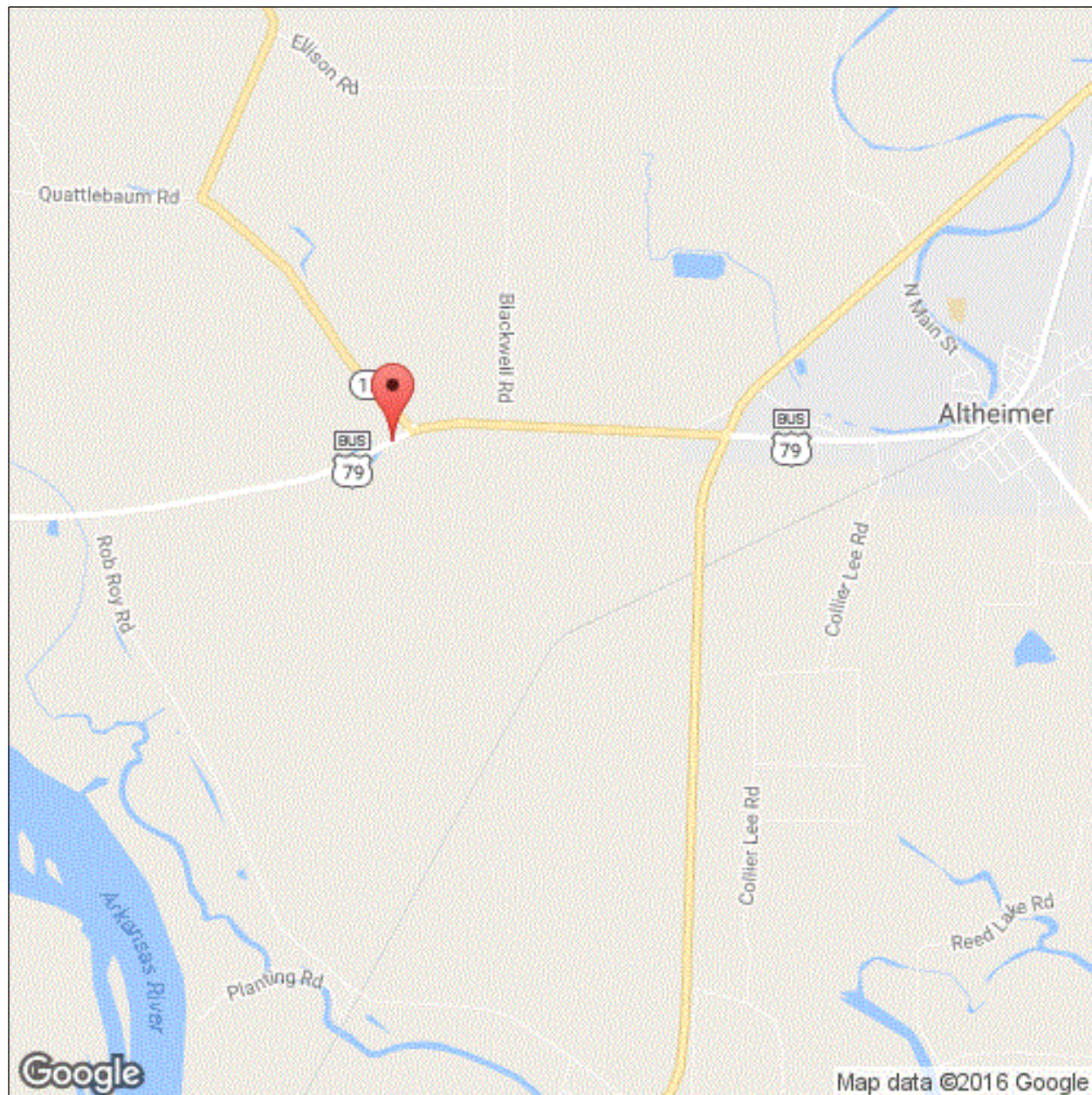
Structure Number: 02831

Inspection Date:

Facility Carried: US 79B-09 LM 15.16

Bridge Inspection Report

Location Map



Latitude: 34.31739698818316

Longitude: -91.89501072883604

Inspector:

Structure Number: 02831

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Bridge Inspection Report

Executive Summary

Bridge is logged from west to east.

01-11-2016 GGL-KLR: This inspection was delayed due to adverse weather conditions (rain/high water levels) and inspector being on leave/holidays.

Inspector:

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Bridge Inspection Report

National Bridge Inventory

| IDENTIFICATION | | INSPECTIONS | |
|---|--|---|-----------------------|
| (1) STATE CODE | 056 - Arkansas | (90) INSPECTION DATE | 01/23/2018 |
| (8) STRUCTURE NUMBER | 02831 | (91) DESIGNATED INSPECTION FREQUENCY | 24 |
| (5) INV. ROUTE (ON/UNDER) | 1 2 6 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 | Main Ditch | C. OTHER SPECIAL | N |
| (7) FACILITY CARRIED | US 79B-09 LM 15.16 | | |
| (9) LOCATION | 0.1 Mi W SH 15-Alzheimer | | |
| (11) MILEPOINT 15.160 | (12) BASE HIGHWAY NETWORK 1 | | |
| (13A) LRS INVENTORY ROUTE | 000007909B (13B) SUBROUTE NUMBER 00 | | |
| (16) LATITUDE 34.31739698818316 | (17) LONGITUDE -91.89501072883604 | | |
| (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: 1 - Concrete | | (59) SUPERSTRUCTURE | 7 (60) SUBSTRUCTURE 6 |
| 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 5 | (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 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 | 44.0 |
| (29) AVERAGE DAILY TRAFFIC 1500 | (19) BYPASS DETOUR LENGTH 10 | (65) METHOD USED TO DETERMINE INVENTORY RATING | 1 |
| (30) YEAR OF AVERAGE DAILY TRAFFIC 2014 | | (66) INVENTORY RATING | 26.0 |
| (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.) 125 | (67) STRUCTURAL EVALUATION | 6 |
| (50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1.5 | RIGHT 1.5 | (68) DECK GEOMETRY | 4 |
| (51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) | 25.6 | (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL | N |
| (52) DECK WIDTH, OUT-TO-OUT (ft.) | 29.5 | (71) WATERWAY ADEQUACY | 8 |
| (32) APPROACH ROADWAY WIDTH (ft.) | 34.1 | (72) APPROACH ROADWAY ALIGNMENT | 7 |
| (33) BRIDGE MEDIAN 0 | (34) SKEW (DEG.) 22 | (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 | 70.9 STATUS 0 |
| 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.) | 153.0 | (104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE | 1 |
| (94) BRIDGE IMPROVEMENT COST (\$) | 0 | (26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE | 02 |
| (95) ROADWAY IMPROVEMENT COST (\$) | 235 | (100) STRAHNET HIGHWAY DESIGNATION | 0 |
| (96) TOTAL PROJECT COST | 614 | (101) PARALLEL STRUCTURE DESIGNATION | N |
| (97) YEAR OF IMPROVEMENT COST ESTIMATE | 2002 | (102) DIRECTION OF TRAFFIC | 2 |
| (114) FUTURE ADT 2153 | (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 | 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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Bridge Inspection Report

Element Inspection

| | Environment | Total Quantity | Units | Condition State 1 | Condition State 2 | Condition State 3 | Condition State 4 |
|---|---|----------------|---------|-------------------|-------------------|-------------------|-------------------|
| 38 - Reinforced Concrete Slab | 1- Ben. | 3687 | sq. ft. | 3613 | 53 | 21 | 0 |
| | Deck: 29.5' wide x 125' long. Some minor transverse cracking in asphalt wearing surface at bents. Some scaling and repaired areas in various location on curbs. Soffit All spans: Minor longitudinal cracks along centerline. Span 1 left: Small spall with some steel exposed near drain. Span 3: Crack with efflorescence on left side. | | | | | | |
| 1090 - Exposed Rebar | | 2 | | | 1 | 1 | |
| 1120 - Efflorescence/Rust Staining | | 17 | | | 17 | | |
| 1130 - Cracking (RC and Other) | | 45 | | | 35 | 10 | |
| 1190 - Abrasion/Wear (PSC/RC) | | 10 | | | | 10 | |
| 510 - Wearing Surfaces | | 3200 | sq. ft. | 3100 | 100 | 0 | 0 |
| 3220 - Crack (Wearing Surface) | | 100 | | | 100 | | |
| 215 - Reinforced Concrete Abutment | 1- Ben. | 76 | ft. | 0 | 76 | 0 | 0 |
| | Abutments: 38' each (skewed) / Bents 1 & 6. End slopes - Bents 1 & 6: Some minor to moderate settlement/erosion along full width and length of caps. (Bent 1 = 6-8" tall, Bent 6 = approximately 4") | | | | | | |
| 6000 - Scour | | 76 | | | 76 | | |
| 227 - Reinforced Concrete Pile | 1- Ben. | 16 | each | 12 | 4 | 0 | 0 |
| | Piling: 4 per bent / Bents 2-5. Some minor abrasive wear and loss of surface mortar on lower portions of piling. | | | | | | |
| 1190 - Abrasion/Wear (PSC/RC) | | 4 | | | 4 | | |
| 234 - Reinforced Concrete Pier Cap | 1- Ben. | 128 | ft. | 62 | 30 | 36 | 0 |
| | Caps: 32' each (skewed) / Bents 2-5. Some small, scattered areas where concrete has spalled out with minor steel exposure on all caps. Bent 2 - right end: Spalling (repaired.) Bent 3 - left & right ends: Spalling (repaired.) Excessive horizontal cracking with heavy efflorescence on all faces of cap. | | | | | | |
| 1080 - Delamination/Spall/Patched Area | | 6 | | | 6 | | |
| 1090 - Exposed Rebar | | 10 | | | 2 | 8 | |
| 1120 - Efflorescence/Rust Staining | | 38 | | | 10 | 28 | |
| 1130 - Cracking (RC and Other) | | 12 | | | 12 | | |
| 301 - Pourable Joint Seal | 1- Ben. | 118 | ft. | 0 | 0 | 118 | 0 |
| | Pourable joints seals at 29.5 each bents 2-5 totaling 118" Debris impact on all joint seals due to asphalt overlay . | | | | | | |
| 2350 - Debris Impaction | | 118 | | | | 118 | |

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Element Inspection

| | | | | | | | |
|--|---|-----|---------|-----|---|-----|---|
| 330 - Metal Bridge Railing | 1- Ben. | 250 | ft. | 247 | 3 | 0 | 0 |
| | Railing: 125' each side. Metal railing with concrete posts. Primer showing through on numerous areas of metal railing. Some spalling with steel exposed on bottom of concrete posts at joints. | | | | | | |
| 7000 - Damage | | 3 | | | 3 | | |
| 515 - Steel Protective Coating | | 625 | sq. ft. | 0 | 0 | 625 | 0 |
| 3440 - Effectiveness (Steel Protective Coatings) | | 625 | | | | 625 | |

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Bridge Inspection Report

Pictures

PHOTO 1

Description Layout Sheet

PHOTO 2

Description

Inspector:

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Bridge Inspection Report

Sketches

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 12/2/2013 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code: Clean

Deficiency Description:

Gutterline – right side: Build-up of dirt, gravel, and other debris – with grass growing – blocking gutters and drains, restricting stormwater from flowing off bridge.

Work Description:

Cleaned by state forces

Date Repairs Completed: 01/23/2018

Maintenance Comments:

Cleaned by state forces

Stage: Monitor



PHOTO 1 Description Gutterline - Spans 1-3 right (debris)

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Bridge Inspection Report

Maintenance Needs

Date Reported: 01/23/2018

Priority: C - Important

Work Code: Repair

Deficiency Description:

Cap – Bent 3: Excessive horizontal cracking with heavy efflorescence on all faces of cap.
Some small, scattered areas where concrete has spalled out with minor steel exposure on remaining areas of all caps.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Cap - Bent 3 (efflorescence & patches)

Stage: Monitor



PHOTO 2 Description Cap - Bent 3 (efflorescence)

Inspector:

Inspection Date:

Structure Number: 02831

Facility Carried: US 79B-09 LM 15.16

Bridge Inspection Report

Maintenance Needs

Stage: Monitor



| | | |
|---------|-------------|--|
| PHOTO 3 | Description | Bent 3 cap has very excessive amounts of cracks with efflorescence the length of cap . |
|---------|-------------|--|

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Bridge Inspection Report

Maintenance Needs

Date Reported: 01/23/2018

Priority: D - Routine

Work Code: Repair

Deficiency Description:

End slopes – Bents 1 & 6: Some minor settlement/erosion along full width and length of caps. (Bent 1 = 6-8" tall, Bent 6 = ~4")

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description End slope- Bent 6 (settlement)

Stage: Monitor



PHOTO 2 Description End slope - Bent 1 (settlement)

Inspector:

Inspection Date:

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Maintenance Needs

Stage: Monitor



PHOTO 3 Description Erosion at bent 1 abutment under cap has exposed piles .

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Maintenance Needs

Date Reported: 01/23/2018

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Log miles sign are 15.61 and should read 15.16

Work Description:

Date Repairs Completed:

Maintenance Comments:
