

# Bridge Inspection Report

**A3878**  
**I 40, WB LNS**  
**over**  
**ALLEN BAYOU**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

Inspector:

Structure Number: A3878

Inspection Date:

Facility Carried: I 40, WB LNS

## Bridge Inspection Report

## National Bridge Inventory

| IDENTIFICATION                                    |  | INSPECTIONS   |                       |
|---|--|---|-----------------------|
| (1) STATE CODE                                    | 056 - Arkansas                           | (90) INSPECTION DATE  | 04/26/2016            |
| (8) STRUCTURE NUMBER                              | A3878                                    | (91) DESIGNATED INSPECTION FREQUENCY                        | 24                    |
| (5) INV. ROUTE (ON/UNDER)                         | 1 1 1 40 4                               | (92) CRITICAL FEATURE INSPECTION                            | (93) CFI DATE         |
| (2) HIGHWAY AGENCY 01                             | (3) COUNTY CODE 123                      | A. FRACTURE CRITICAL DETAIL                                 | N                     |
| (4) PLACE CODE                                    | 00000                                    | B. UNDERWATER INSPECTION                                    | N                     |
| (6) FEATURES INTERSECTED                          | ALLEN BAYOU                              | C. OTHER SPECIAL  | N                     |
| (7) FACILITY CARRIED                              | I 40, WB LNS                             | CONDITION   |                       |
| (9) LOCATION                                      | 1.53 MI N JCT SH 75                      | (58) DECK   | 5                     |
| (11) MILEPOINT 257.770                            | (12) BASE HIGHWAY NETWORK 1              | (59) SUPERSTRUCTURE   | 5 (60) SUBSTRUCTURE 7 |
| (13A) LRS INVENTORY ROUTE 0000040510              | (13B) SUBROUTE NUMBER 00                 | (61) CHANNEL & CHANNEL PROTECTION                           | 7 (62) CULVERT N      |
| (16) LATITUDE 35.12737                            | (17) LONGITUDE -90.52341                 | LOAD RATING AND POSTING                                     |                       |
| (98A) BORDER BRIDGE CODE                          |  | (31) DESIGN LOAD  | 6                     |
| PERCENT RESPONSIBILITY                            | (99) BORDER BRIDGE STRUCT                | (63) METHOD USED TO DETERMINE OPERATING RATING              | 1                     |
| STRUCTURE TYPE AND MATERIAL                       |  | (64) OPERATING RATING                                       | 60.0                  |
| (43) STRUCTURE TYPE, MAIN                         |  | (65) METHOD USED TO DETERMINE INVENTORY RATING              | 1                     |
| A) KIND OF MATERIAL/DESIGN: 1 - Concrete          |  | (66) INVENTORY RATING                                       | 36.0                  |
| B) TYPE OF DESIGN/CONSTR: 01 - Slab               |  | (70) BRIDGE POSTING   | 5                     |
| (44) STRUCTURE TYPE, APPROACH SPANS               |  | (41) STRUCTURE OPEN/POSTED/CLOSED                           | A                     |
| A) KIND OF MATERIAL/DESIGN: 0 - Other             |  | APPRAISAL   |                       |
| B) TYPE OF DESIGN/CONSTR: 00 - Other              |  | (67) STRUCTURAL EVALUATION                                  | 5                     |
| (45) NUMBER OF SPANS IN MAIN 3                    | (46) NUMBER OF APPROACH 0                | (68) DECK GEOMETRY  | 6                     |
| (107) DECK STRUCTURE TYPE 1                       | (108A) WEARING SURFACE 6                 | (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL                 | N                     |
| (108B) DECK MEMBRANE 0                            | (108C) DECK PROTECTION 0                 | (71) WATERWAY ADEQUACY                                      | 8                     |
| AGE OF SERVICE                                    |  | (72) APPROACH ROADWAY ALIGNMENT                             | 8                     |
| (27) YEAR BUILT 1965                              | (106) YEAR RECONSTRUCTED 0000            | (36) TRAFFIC SAFETY FEATURE                                 |                       |
| (42) TYPE OF SERVICE ON 1 UNDER 5                 |  | 36A) BRIDGE RAILINGS:                                       | 1                     |
| (28) LANES ON 02 UNDER 00                         |  | 36B) TRANSITIONS:   | 1                     |
| (29) AVERAGE DAILY TRAFFIC 14000                  | (19) BYPASS DETOUR LENGTH 1              | 36C) APPROACH GUARDRAIL:                                    | 1                     |
| (30) YEAR OF AVERAGE DAILY TRAFFIC 2014           |  | 36D) APPROACH GUARDRAIL ENDS:                               | 1                     |
| (109) AVERAGE DAILY TRUCK TRAFFIC 56              |  | (113) SCOUR CRITICAL BRIDGES                                | 5                     |
| GEOMETRIC DATA                                    |  | SUFFICIENCY RATING  | 0 STATUS 84.5         |
| (48) LENGTH OF MAX SPAN (ft.) 25                  | (49) STRUCTURE LENGTH (ft.) 75           | CLASSIFICATION  |                       |
| (50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0    |  | (112) NBIS BRIDGE LENGTH                                    | Y                     |
| (51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)           | 38.1                                     | (104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE                 | 1                     |
| (52) DECK WIDTH, OUT-TO-OUT (ft.)                 | 40.6                                     | (26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE           | 01                    |
| (32) APPROACH ROADWAY WIDTH (ft.)                 | 38.1                                     | (100) STRAHNET HIGHWAY DESIGNATION                          | 1                     |
| (33) BRIDGE MEDIAN 0                              | (34) SKEW (DEG.) 0                       | (101) PARALLEL STRUCTURE DESIGNATION                        | L                     |
| (35) STRUCTURE FLARED 0                           | (10) INV RTE, MIN VERT CLEAR (ft.) 99.99 | (102) DIRECTION OF TRAFFIC                                  | 1                     |
| (47) TOTAL HORIZONTAL CLEARANCE (ft.)             | 39.0                                     | (103) TEMP STRUCTURE  |                       |
| (53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) | 99.99                                    | (105) FEDERAL LANDS HIGHWAYS                                | 0                     |
| (54) VERTICAL UNDER CLEARANCE (ft.)               | N 0                                      | (110) DESIGNATED NATIONAL NETWORK                           | 1                     |
| (55) LATERAL UNDER CLEARANCE RIGHT (ft.)          | N 99.9                                   | (20) TOLL   | 3                     |
| (56) MIN LATERAL UNDER CLEARANCE (ft.)            | 0  | (21) MAINTENANCE RESPONSIBILITY                             | 01                    |
| PROPOSED IMPROVEMENTS                             |  | (22) OWNER  | 01                    |
| (75A) TYPE OF WORK PROPOSED                       | (75B) WORK DONE BY                       | (37) HISTORICAL   | 5                     |
| (76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)        | 0  | NAVIGATION DATA   |                       |
| (94) BRIDGE IMPROVEMENT COST (\$)                 | 0  | (38) NAVIGATION CONTROL                                     | 0                     |
| (95) ROADWAY IMPROVEMENT COST (\$)                | 0  | (111) PIER OR ABUTMENT PROTECTION                           | 1                     |
| (96) TOTAL PROJECT COST                           | 0  | (39) NAV VERT CLEARANCE (ft.)                               | 0                     |
| (97) YEAR OF IMPROVEMENT COST ESTIMATE            |  | (116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.) | 0                     |
| (114) FUTURE ADT 19000                            | (115) YEAR OF FUTURE ADT 2034            | (40) NAV HORIZONTAL CLEARANCE (ft.)                         | 0000                  |

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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.  | 3045           | sq. ft. | 103               | 530               | 2412              | 0                 |
| <div>Note: 2" ACHM overlay on deck</div> | SPAN #1 HAS SEVEAL MODERATE SIZE HOLES IN ASPHALT OVERLAY, BOTH LANES.<br><b>OVERLAY</b> RAVELING AT JOINTS.<br>SOFFIT: SPAN #1,2,3 HAVE A LARGE AREA OF DELAMINATION AND LONGITUDINAL CRACKS WITH RUST STAINING. ALL SPANS HAVE AREAS OF SPALLING AT SONA-VOID DRAINS WITH EXPOSED REBAR. REBAR HAS MINOR SECTION LOSS.<br>SPANS #2 & #3 HAVE SCALING ON SOFFIT DUE TO FIRE SPAN #2<br>510 SF SPAN #3 20 SF |                |         |                   |                   |                   |                   |
|  | 1080 - Delamination/Spall/Patched Area   | 8              |         |                   |                   | 8                 |                   |
|  | 1090 - Exposed Rebar   | 4              |         |                   |                   | 4                 |                   |
|  | 1120 - Efflorescence/Rust Staining   | 2400           |         |                   |                   | 2400              |                   |
|  | 1190 - Abrasion/Wear (PSC/RC)  | 530            |         |                   | 530               |                   |                   |
|  | 510 - Wearing Surfaces   | 2858           | sq. ft. | 0                 | 0                 | 2858              | 0                 |
|  | 3210 - Delamination/Spall/Patched Area/Pothole (Wearing Surfaces)  | 377            |         |                   |                   | 377               |                   |
|  | 3230 - Effectiveness (Wearing Surface)   | 2481           |         |                   |                   | 2481              |                   |
| 215 - Reinforced Concrete Abutment       | 1- Ben.  | 94             | ft.     | 64                | 0                 | 30                | 0                 |
|  | ABUTMENTS #1 AND #2 CAPS LEFT END UNDERMINED EXPOSING PILE #1 AT EACH ABUTMENT.MINOR EROSION AT VARIOUS LOCATIONS  |                |         |                   |                   |                   |                   |
|  | 6000 - Scour   | 30             |         |                   |                   | 30                |                   |
| 227 - Reinforced Concrete Pile           | 1- Ben.  | 16             | each    | 16                |                   |                   |                   |
|  | BENT #3 PILES #5,6&7 HAVE ALL BEEN BUILT UP DUE TO DAMAGE FROM PREVIOUS WRECK  |                |         |                   |                   |                   |                   |
| 234 - Reinforced Concrete Pier Cap       | 1- Ben.  | 82             | ft.     | 65                | 0                 | 17                | 0                 |
|  | BENTS #2,3 HAVE AREAS OF SPALLING ON BOTTOM CHORD WITH EXPOSED REBAR. REBAR HAS MINOR SECTION LOSS. NO CHANGE FROM LAST INSPECTION.  |                |         |                   |                   |                   |                   |
|  | 1090 - Exposed Rebar   | 17             |         |                   |                   | 17                |                   |
| 321 - Reinforced Concrete Approach Slab  | 1- Ben.  | 1680           | sq. ft. | 1584              | 0                 | 96                | 0                 |
|  | APPROACH SLABS ARE COVERED IN ASPHALT OVERLAY, UNABLE TO BE SEEN.<br>ASPHALT HAS SETTLED AT BOTH ENDS OF BRIDGE , INCREASING IMPACT LOADING TO BRIDGE.   |                |         |                   |                   |                   |                   |
|  | 4000 - Settlement  | 96             |         |                   |                   | 96                |                   |
|  | 521 - Concrete Protective Coating  | 1680           | sq. ft. | 0                 |                   | 1680              |                   |
| 331 - Reinforced Concrete Bridge Railing | 1- Ben.  | 150            | ft.     | 150               |                   |                   |                   |