

# Bridge Inspection Report

03923  
US 64  
over  
MAPLE CREEK



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

Inspector:

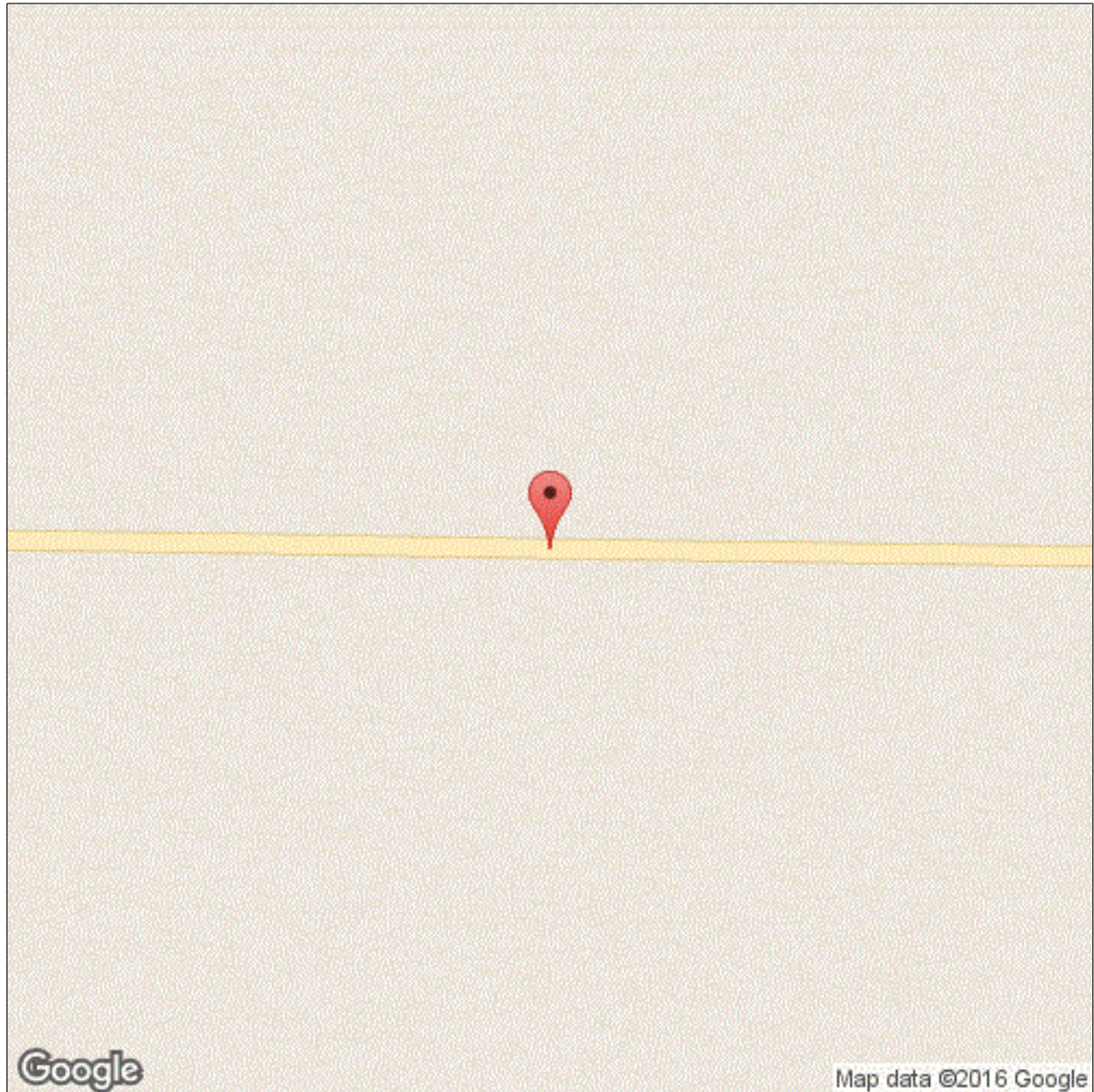
Structure Number: 03923

Inspection Date:

Facility Carried: US 64

## Bridge Inspection Report

### Location Map



Latitude: 35.285305

Longitude: -91.309395



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### Location Map



Latitude: 35.285305

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## **Bridge Inspection Report**

### **Executive Summary**

Inspector:

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## Bridge Inspection Report

## National Bridge Inventory

| IDENTIFICATION                                    |                                      | INSPECTIONS   |                       |
|---|--------------------------------------|---|-----------------------|
| (1) STATE CODE                                    | 056 - Arkansas                       | (90) INSPECTION DATE  | 05/10/2016            |
| (8) STRUCTURE NUMBER                              | 03923                                | (91) DESIGNATED INSPECTION FREQUENCY                        | 24                    |
| (5) INV. ROUTE (ON/UNDER)                         | 1 2 1 64 0                           | (92) CRITICAL FEATURE INSPECTION                            | (93) CFI DATE         |
| (2) HIGHWAY AGENCY                                | 01 (3) COUNTY CODE 147               | A. FRACTURE CRITICAL DETAIL                                 | N                     |
| (4) PLACE CODE                                    | 00000                                | B. UNDERWATER INSPECTION                                    | N                     |
| (6) FEATURES INTERSECTED                          | MAPLE CREEK                          | C. OTHER SPECIAL  | N                     |
| (7) FACILITY CARRIED                              | US 64                                |   |                       |
| (9) LOCATION                                      | 2.94 MI E JCT SH 33                  |   |                       |
| (11) MILEPOINT 2.940                              | (12) BASE HIGHWAY NETWORK 1          |   |                       |
| (13A) LRS INVENTORY ROUTE                         | 0000064130 (13B) SUBROUTE NUMBER 00  |   |                       |
| (16) LATITUDE                                     | 35.285305 (17) LONGITUDE -91.309395  |   |                       |
| (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 8 |
| 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                      | 3 (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                                   | 1966 (106) YEAR RECONSTRUCTED        | 0000  |                       |
| (42) TYPE OF SERVICE                              | ON 1 UNDER 5                         | (31) DESIGN LOAD  | 5                     |
| (28) LANES  | ON 02 UNDER 00                       | (63) METHOD USED TO DETERMINE OPERATING RATING              | 1                     |
| (29) AVERAGE DAILY TRAFFIC                        | 4400 (19) BYPASS DETOUR LENGTH       | (64) OPERATING RATING                                       | 60.0                  |
| (30) YEAR OF AVERAGE DAILY TRAFFIC                | 2014                                 | (65) METHOD USED TO DETERMINE INVENTORY RATING              | 1                     |
| (109) AVERAGE DAILY TRUCK TRAFFIC                 | 1                                    | (66) INVENTORY RATING                                       | 36.0                  |
|   |                                      | (70) BRIDGE POSTING   | 5                     |
|   |                                      | (41) STRUCTURE OPEN/POSTED/CLOSED                           | A                     |
| GEOMETRIC DATA                                    |                                      | APPRAISAL   |                       |
| (48) LENGTH OF MAX SPAN (ft.)                     | 30 (49) STRUCTURE LENGTH (ft.)       | 90  |                       |
| (50) CURB/SIDEWALK WIDTHS (ft.)                   | LEFT 1.5 RIGHT 1.5                   | (67) STRUCTURAL EVALUATION                                  | 7                     |
| (51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)           | 27.9                                 | (68) DECK GEOMETRY  | 4                     |
| (52) DECK WIDTH, OUT-TO-OUT (ft.)                 | 31.5                                 | (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL                 | N                     |
| (32) APPROACH ROADWAY WIDTH (ft.)                 | 40.0                                 | (71) WATERWAY ADEQUACY                                      | 8                     |
| (33) BRIDGE MEDIAN                                | 0 (34) SKEW (DEG.)                   | 0   |                       |
| (35) STRUCTURE FLARED                             | 0 (10) INV RTE, MIN VERT CLEAR (ft.) | 99.99   |                       |
| (47) TOTAL HORIZONTAL CLEARANCE (ft.)             | 30.8                                 | (72) APPROACH ROADWAY ALIGNMENT                             | 8                     |
| (53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) | 99.99                                | (36) TRAFFIC SAFETY FEATURE                                 |                       |
| (54) VERTICAL UNDER CLEARANCE (ft.)               | N 0                                  | 36A) BRIDGE RAILINGS:                                       | 1                     |
| (55) LATERAL UNDER CLEARANCE RIGHT (ft.)          | N 99.9                               | 36B) TRANSITIONS:   | 0                     |
| (56) MIN LATERAL UNDER CLEARANCE (ft.)            | 0                                    | 36C) APPROACH GUARDRAIL:                                    | 0                     |
|   |                                      | 36D) APPROACH GUARDRAIL ENDS:                               | 0                     |
|   |                                      | (113) SCOUR CRITICAL BRIDGES                                | 5                     |
|   |                                      | SUFFICIENCY RATING  | 0 STATUS 78.4         |
| PROPOSED IMPROVEMENTS                             |                                      | CLASSIFICATION  |                       |
| (75A) TYPE OF WORK PROPOSED                       | 31 (75B) WORK DONE BY                | 1   |                       |
| (76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)        | 116.0                                | (112) NBIS BRIDGE LENGTH                                    | Y                     |
| (94) BRIDGE IMPROVEMENT COST (\$)                 | 0                                    | (104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE                 | 0                     |
| (95) ROADWAY IMPROVEMENT COST (\$)                | 265                                  | (26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE           | 06                    |
| (96) TOTAL PROJECT COST                           | 732                                  | (100) STRAHNET HIGHWAY DESIGNATION                          | 0                     |
| (97) YEAR OF IMPROVEMENT COST ESTIMATE            | 2003                                 | (101) PARALLEL STRUCTURE DESIGNATION                        | N                     |
| (114) FUTURE ADT                                  | 5245 (115) YEAR OF FUTURE ADT        | (102) DIRECTION OF TRAFFIC                                  | 2                     |
|   |                                      | (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.)                         | 0000                  |

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## Element Inspection

|   | Environment  | Total Quantity | Units   | Condition State 1 | Condition State 2 | Condition State 3 | Condition State 4 |
|---|--|----------------|---------|-------------------|-------------------|-------------------|-------------------|
| <b>38 - Reinforced Concrete Slab</b>            | 1- Ben.  | 2813           | sq. ft. | 2450              | 330               | 33                | 0                 |
|   | SPAN #1 BENT #2 LEFT SIDE OF SLAB CRACKED AT BENT.<br>SPAN #2 BENT #2 RIGHT SIDE OF SLAB CRACKED AT BENT.<br>ALL SPANS HAVE OPEN LONGITUDINAL HAIRLINE CRACKS IN SOFFIT, SPANS #1 AND #3 HAVE RUST STAINING. |                |         |                   |                   |                   |                   |
| 1130 - Cracking (RC and Other)                  |  | 363            |         |                   | 330               | 33                |                   |
| 510 - Wearing Surfaces                          |  | 2520           | sq. ft. | 2520              |                   |                   |                   |
| <b>215 - Reinforced Concrete Abutment</b>       | 1- Ben.  | 75             | ft.     | 75                |                   |                   |                   |
| <b>227 - Reinforced Concrete Pile</b>           | 1- Ben.  | 10             | each    | 10                |                   |                   |                   |
| <b>234 - Reinforced Concrete Pier Cap</b>       | 1- Ben.  | 61             | ft.     | 60                | 1                 | 0                 | 0                 |
|   | SMALL SPALL BENT #2 CAP BACKFACE AT KEYWAY ABOVE PILE #2.  |                |         |                   |                   |                   |                   |
| 1080 - Delamination/Spall/Patched Area          |  | 1              |         |                   | 1                 |                   |                   |
| <b>331 - Reinforced Concrete Bridge Railing</b> | 1- Ben.  | 180            | ft.     | 180               |                   |                   |                   |
| <b>333 - Other Bridge Railing</b>               | 1- Ben.  | 180            | ft.     | 180               |                   |                   |                   |

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 05/10/2016

Priority: C - Important

Work Code:

---

#### Deficiency Description:

Large beaver dam on left side of bridge full length

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

---

Stage: Open



PHOTO 1    Description    Large beaver dam left side of bridge



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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 5/7/2014 12:00:00 AM

Priority: D - Routine

Work Code:

---

#### Deficiency Description:

APPROACH RAIL

ABUTMENTS #1&2  
LEFT

MINOR COLLISION DAMAGE

#### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Monitor



PHOTO 1      Description      Abutment #2 left approach rail

Stage: Monitor



PHOTO 2      Description      Abutment #1 left approach rail traffic damage



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### Maintenance Needs

Date Reported: 5/7/2014 12:00:00 AM

Priority: D - Routine

Work Code:

---

#### Deficiency Description:

EROSION

ABUTMENT #2 LEFT  
AT SIDE DRAIN AND BRIDGE END

SEVERAL HOLES ERODED IN SIDE SLOPE AT SIDE DRAIN AND AT BRIDGE END

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

---

Stage: Monitor



PHOTO 1      Description      Erosion abutment #2 left side at drain

Stage: Monitor



PHOTO 2      Description      Erosion abutment #2 left side at drain

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### Maintenance Needs

Stage: Monitor



PHOTO 3      Description      Hole in slope abutment #2 left side

Stage: Monitor



PHOTO 4      Description      Hole in slope abutment #2 left side



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### Maintenance Needs

Date Reported: 05/10/2016

Priority: C - Important

Work Code:

---

#### Deficiency Description:

Approach gutters have holes eroded under them both sides of Abutment #2

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Open



PHOTO 1      Description      Erosion under approach gutter  
abutment #2 right side

Stage: Open



PHOTO 2      Description      Hole eroded under approach curb  
abutment #2 left side



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### Maintenance Needs

Date Reported: 05/10/2016

Priority: C - Important

Work Code:

---

#### Deficiency Description:

Erosion control has failed at abutment #2 left side.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Open



PHOTO 1      Description      Erosion at abutment #2 left side.