



Latitude:34.46569, Longitude:-93.02125

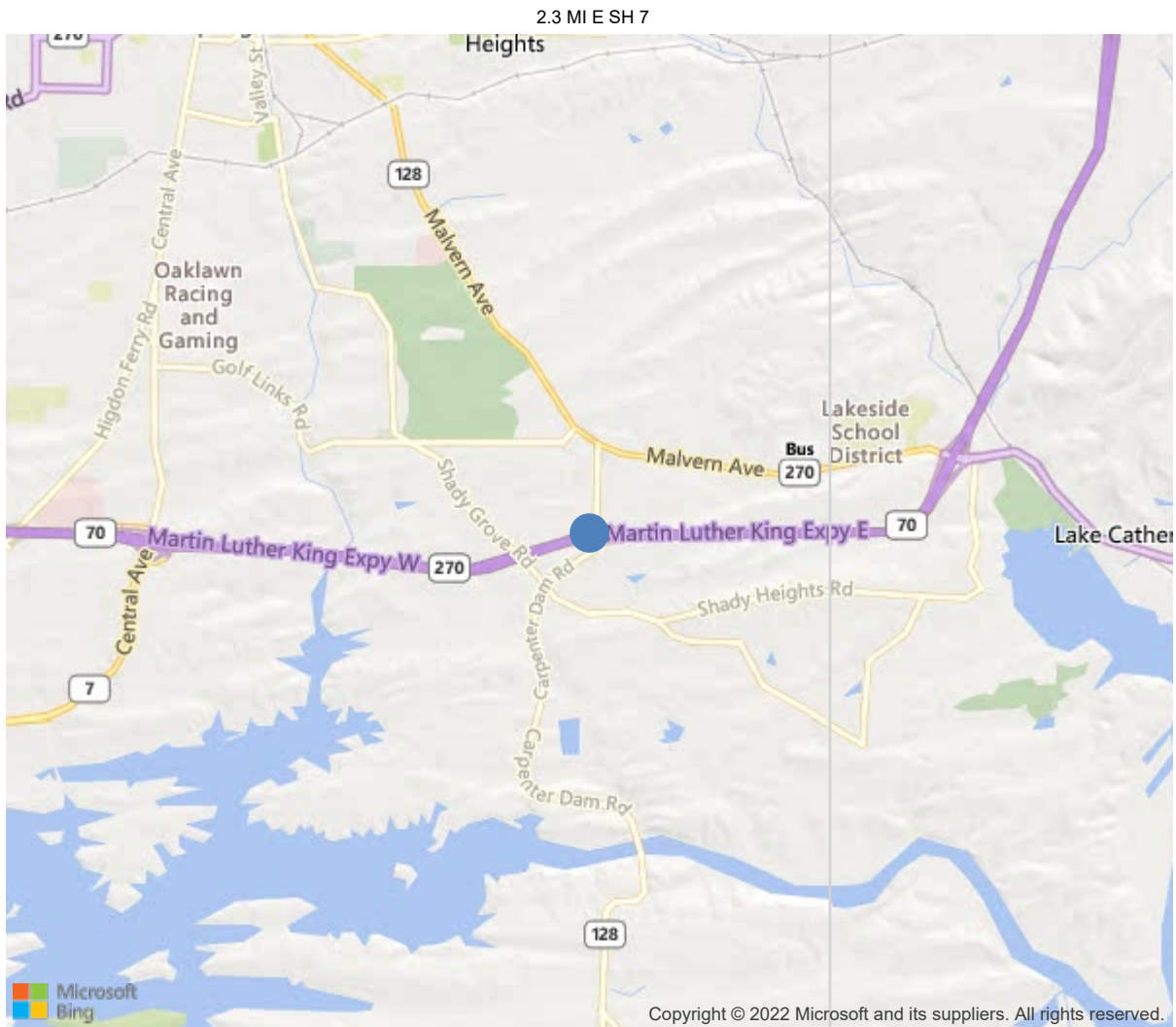
Route:270 Section:06 Log:2.259

Arnold Road ID:26x270x6xB, Arnold Log mile:6.673

District 06, Garland County

Owner: 1-State Highway Agency

Place Code: 33400 - Hot Springs



34.46569, -93.02125

Inspection Direction : W to E



**Bridge #A6493(Routine)**  
**US 270, WB LNS over SH 128**  
**Location: 2.3 MI E SH 7**

**Team Lead: Shane Byrd Inspection Date: July 08, 2020**

| IDENTIFICATION                            |  |
|---|--|
| (1) State Names                           | Arkansas                                   |
| (8) Structure Number                      | A6493                                      |
| (5) Inventory Route                       | 270  |
| (2) Highway Agency District               | 06   |
| (3) County Code                           | 51-Garland County, Arkansas                |
| (4) Place Code                            | 33400                                      |
| (6) Features Intersected                  | SH 128                                     |
| (7) Facility Carried                      | US 270, WB LNS                             |
| (9) Location                              | 2.3 MI E SH 7                              |
| (11) Mile Point                           | 2.259 mi                                   |
| (12) Base Highway Network                 | Yes  |
| (13) LRS Inventory Rte & Subrte           | 0000270060                                 |
| (16) Latitude                             | 34.46569                                   |
| (17) Longitude                            | -93.02125                                  |
| (98) Border Bridge State Code             |  |
| (99) Border Bridge Structure No.          |  |
| STRUCTURE TYPE AND MATERIAL               |  |
| (43) Main Structure Type                  | 42   |
| Material                                  | 4-Steel continuous                         |
| Type                                      | 2-Stringer/Multi-beam or girder            |
| (44) Approach Structure Type              | 00   |
| Material                                  | 0-Other                                    |
| Type                                      | 0-Other                                    |
| (45) No. of Spans in Main Unit            | 3  |
| (46) No. of Approach Spans                | 0  |
| (107) Deck Structure Type                 | 1-Concrete Cast-in-Place                   |
| (108) Wearing Surface/Protective System   |  |
| Type of Wearing Surface                   | 1-Monolithic Concrete (concurrently placed |
| Type of Membrane                          | 0-None                                     |
| Type of Deck Protection                   | 1-Epoxy Coated Reinforcing                 |
| AGE AND SERVICE                           |  |
| (27) Year Built                           | 1993                                       |
| (106) Year Reconstructed                  | 0  |
| (42) Type of Service                      | 11   |
| On  | 1-Highway                                  |
| Under                                     | 1-Highway, with or without pedestrian      |
| (28) Lane                                 |  |
| On  | 2  |
| Under                                     | 4  |
| (29) Average Daily Traffic                | 33035                                      |
| (30) Year of ADT                          | 2014                                       |
| (109) Truck ADT                           | 1 %  |
| (19) Bypass, Detour Length                | 0 mi                                       |
| GEOMETRIC DATA                            |  |
| (48) Length of Maximum Span               | 97 ft                                      |
| (49) Structure Length                     | 259 ft                                     |
| (50) Curb or Sidewalk Width               |  |
| Left                                      | 0 ft                                       |
| Right                                     | 0 ft                                       |
| (51) Bridge Roadway Width Curb to Curb    | 39.4 ft                                    |
| (52) Deck Width Out to Out                | 42.5 ft                                    |
| (32) Approach Roadway Width (W/Shoulders) | 41 ft                                      |
| (33) Bridge Median                        | 0-No median                                |
| (34) Skew                                 | 0 Deg                                      |
| (35) Structure Flared                     | No flare                                   |
| (10) Inventory Route Min Vert Clear       | 99.99 ft                                   |
| (47) Inventory Route Total Horiz Clear    | 40.4 ft                                    |
| (53) Min Vert Clear Over Bridge Rdwy      | 99.99 ft                                   |
| (54) Min Vert Underclear                  | 21.92 ft                                   |
| Ref:                                      |  |
| (55) Min Lat Underclear RT                | 28 ft                                      |
| Ref:                                      |  |
| (56) Min Lat Underclear LT                | 16.1 ft                                    |
| NAVIGATION DATA                           |  |
| (38) Navigation Control                   | N-Not applicable, no waterway.             |
| (111) Pier Protection                     | 1-Navigation protection not requ           |
| (39) Navigation Vertical Clearance        | 0 ft                                       |
| (116) Vert-Lift Bridge Nav Min Vert Clear | 0 ft                                       |
| (40) Navigation Horizontal Clearance      | 0 ft                                       |

| CLASSIFICATION                         |  |
|--|--|
| (112) NBIS Bridge Length               | Y                                      |
| (104) Highway System                   | 1                                      |
| (26) Functional Class                  | 14-Urban Other Principal Arterial      |
| (100) Defense Highway                  | 0-The inventory route is not a S       |
| (101) Parallel Structure               | L-The left structure of parallel       |
| (102) Direction of Traffic             | 1 - way traffic                        |
| (103) Temporary Structure              |  |
| (105) Federal Lands Highways           | 0-N/A                                  |
| (110) Designated National Network      | 0-The inventory route is not part of   |
| (20) Toll                              | 3-On free road. The structure is toll- |
| (21) Maintain                          | 1-State Highway Agency                 |
| (22) Owner                             | 1-State Highway Agency                 |
| (37) Historical Significance           | 5-Bridge is not eligible for the NRHP  |
| CONDITION                              |  |
| (58) Deck                              | 7                                      |
| (59) Superstructure                    | 8                                      |
| (60) Substructure                      | 7                                      |
| (61) Channel & Channel Protection      | N                                      |
| (62) Culverts                          | N                                      |
| LOAD RATING AND POSTING                |  |
| (31) Design Load                       | 5-MS 18 / HS 20                        |
| (63) Operating Rating Method           | 1                                      |
| (64) Operating Rating                  |  |
| Type                                   | 1-Load Factor(LF)                      |
| Rating                                 | 60                                     |
| (65) Inventory Rating Method           | 1-Load Factor(LF)                      |
| (66) Inventory Rating                  |  |
| Type                                   | 3                                      |
| Rating                                 | 36                                     |
| (70) Bridge Posting                    | 5-Equal to or above legal loads        |
| (41) Structure Open/Posted/Closed      | A-Open, no restriction                 |
| APPRAISAL                              |  |
| (67) Structural Evaluation             | 7                                      |
| (68) Deck Geometry                     | 7                                      |
| (69) Clearances, Vertical/Horizontal   | 7                                      |
| (71) Waterway Adequacy                 | N                                      |
| (72) Approach Roadway Alignment        | 8                                      |
| (36A) Bridge Railings                  | 1-Inspected feature meets currently a  |
| (36B) Transitions                      | 0-Inspected feature does not meet cur  |
| (36C) Approach Guardrail               | 0-Inspected feature does not meet cur  |
| (36D) Approach Guardrail Ends          | 1-Inspected feature meets currently a  |
| (113) Scour Critical Bridges           | N-Bridge not over waterway.            |
| PROPOSED IMPROVEMENTS                  |  |
| (75) Type of Work                      |  |
| (76) Length of Structure Improvement   | 0 ft                                   |
| (94) Bridge Improvement Cost           | \$ 0                                   |
| (95) Roadway Improvement Cost          | \$ 0                                   |
| (96) Total Project Cost                | \$ 0                                   |
| (97) Year of Improvement Cost Estimate |  |
| (114) Future ADT                       | 22345                                  |
| (115) Year of Future ADT               | 2028                                   |

| INSPECTIONS *  |      |             |           |
|--|------|-------------|-----------|
| (90) Inspection Date   |      |             | 07/2020   |
| (91) Frequency   |      |             | 24 Months |
| (92) Critical Feature Inspection   | Done | Freq. (Mon) | Date      |
| A: Fracture Critical Detail  | No   |             |           |
| B: Underwater Inspection   | No   |             |           |
| C: Other Special Inspection  | No   |             |           |
| * The inspection date and frequency information in this box contains the current NBI date and frequency information. Please refer to the report header for the date this inspection was conducted. |      |             |           |

**Team Lead:** Shane Byrd, **Inspection Date:** July 08, 2020

| ELEM  | DESCRIPTION  | UNITS | TOTAL | CS1   | CS2  | CS3 | CS4 |
|-------|--|-------|-------|-------|------|-----|-----|
| 12    | Reinforced Concrete Deck   | SF    | 10990 | 8183  | 2567 | 240 | 0   |
| 1120  | Efflorescence/Rust Staining  | SF    | 124   | 0     | 124  | 0   | 0   |
| 1130  | Cracking (RC and Other)  | SF    | 2683  | 0     | 2443 | 240 | 0   |
| (12)  | Cracks with efflorescence in the overhang soffit. Longitudinal and transverse cracks in all spans.   |       |       |       |      |     |     |
| 107   | Steel Open Girder/Beam   | LF    | 1542  | 1542  | 0    | 0   | 0   |
| 515   | Steel Protective Coating   | SF    | 13107 | 11812 | 1295 | 0   | 0   |
| 3410  | Chalking (Steel Protective Coatings)   | SF    | 1295  | 0     | 1295 | 0   | 0   |
| (107) | No apparent noteworthy defects at this inspection, Girder 1 protective coating is chalking on exterior face.   |       |       |       |      |     |     |
| 205   | Reinforced Concrete Column   | EA    | 4     | 4     | 0    | 0   | 0   |
| (205) | No apparent noteworthy defects at this inspection.   |       |       |       |      |     |     |
| 215   | Reinforced Concrete Abutment   | LF    | 104   | 75    | 29   | 0   | 0   |
| 1080  | Delamination/Spall/Patched Area  | LF    | 16    | 0     | 16   | 0   | 0   |
| 1120  | Efflorescence/Rust Staining  | LF    | 7     | 0     | 7    | 0   | 0   |
| 1130  | Cracking (RC and Other)  | LF    | 6     | 0     | 6    | 0   | 0   |
| (215) | 7/23/2018-KRM & RLS- Cracks and cracks with efflorescence in the back wall and beam seat of bents 1 and 4. Spalls in the top of the back wall of bent 1. |       |       |       |      |     |     |
| 234   | Reinforced Concrete Pier Cap   | LF    | 83    | 83    | 0    | 0   | 0   |
| (234) | No apparent noteworthy defects at this inspection.   |       |       |       |      |     |     |
| 302   | Compression Joint Seal   | LF    | 85    | 0     | 0    | 42  | 43  |
| 2320  | Seal Adhesion  | LF    | 42    | 0     | 0    | 42  | 0   |
| 2330  | Seal Damage  | LF    | 43    | 0     | 0    | 0   | 43  |
| (302) | Bent 1 has lost adhesion and bent 4 joint has fallen out.  |       |       |       |      |     |     |
| 310   | Elastomeric Bearing  | EA    | 24    | 24    | 0    | 0   | 0   |
| (310) |  |       |       |       |      |     |     |

**Team Lead:** Shane Byrd, **Inspection Date:** July 08, 2020

| ELEM   | DESCRIPTION                        | UNITS | TOTAL | CS1 | CS2 | CS3 | CS4 |
|--|------------------------------------|-------|-------|-----|-----|-----|-----|
| No apparent noteworthy defects at this inspection. |                                    |       |       |     |     |     |     |
| 331  | Reinforced Concrete Bridge Railing | LF    | 514   | 502 | 12  | 0   | 0   |
| 1130   | Cracking (RC and Other)            | LF    | 12    | 0   | 12  | 0   | 0   |
| (331)  |                                    |       |       |     |     |     |     |
| Random vertical cracks in the bridge railing.      |                                    |       |       |     |     |     |     |



Debris has accumulated at bent 1 abutment due to missing joint seal.



Span 2 left side soffit overhang overview.



Deck overview.



Approach Westbound.



Bent 4 joint seal has lost adhesion and partially falling out.



Bent 1 joint seal has lost bond.



Deck span 3 has longitudinal cracks.



Deck span 2 has transverse cracks.



Bent 1 abutment has spalls in the top of the back wall.

### Maintenance Needs

**Date Reported:** 07/16/2014  
**Priority:** C - Important  
**Type of Work:** N/A  
**Status:** Monitor  
**Component:**

---

### Deficiency Description

Bent 4 joint seal has partially fallen out allowing dirt and debris to accumulate on abutment and bearings. Photo attached.

### Remarks

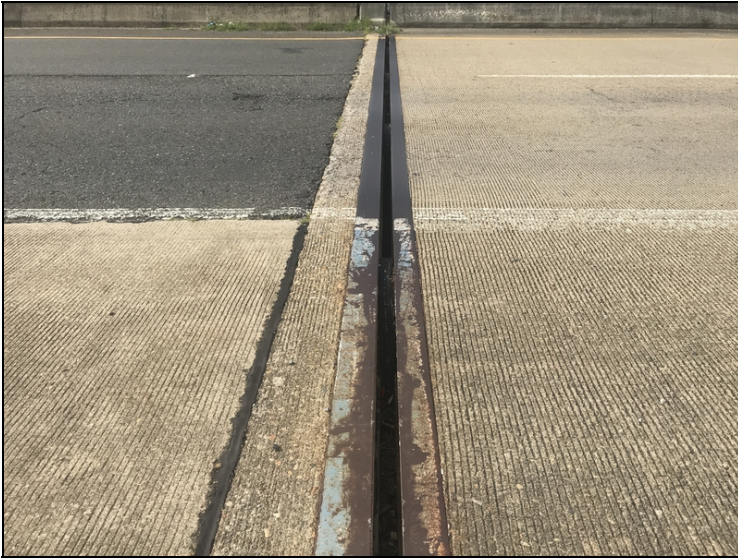
---



Bent 4, the joint has fallen out.



Left side at bent 4 has a void under the abutment  
up to 4" deep.



Bent 4 joint seal has lost adhesion and partially falling out.

**Date Reported:** 07/16/2014  
**Priority:** D- Routine  
**Type of Work:** N/A  
**Status:** Monitor  
**Component:**

---

**Deficiency Description**

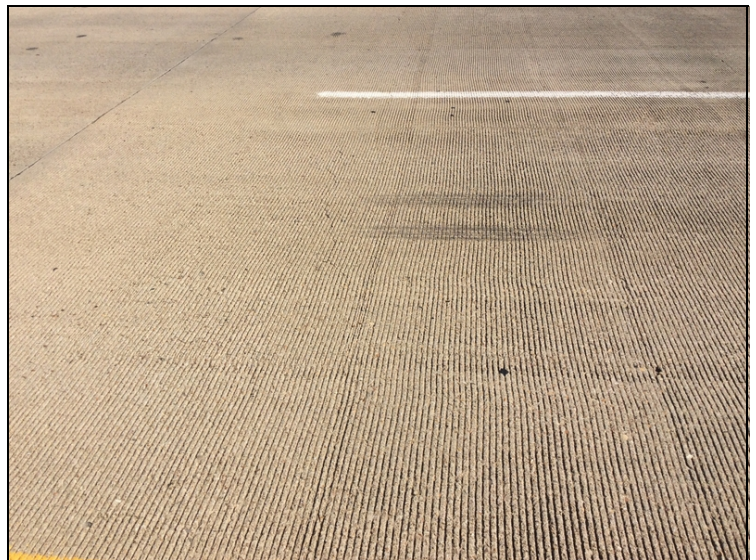
Deck all spans unsealed cracks

**Remarks**

---



Span 1 longitudinal crack.



Span 2, transverse cracks.

**Date Reported:** 07/23/2018  
**Priority:** D- Routine  
**Type of Work:** None  
**Status:** Assigned  
**Component:**

---

### Deficiency Description

The slope paving on the left side of bent 1 has settled 6" exposing a void approximately 6' x 6' x 6" under the beam seat and back-wall. Left side at bent 4 has a void under the abutment up to 4" deep.

### Remarks

---



Bent 1 left side, slope paving has settled up to six inches exposing a void under the abutment approximately 6' in length 6' in width 6" depth.



Bent 4 left side slope paving has settled exposing a 4" void under the abutment.



The slope paving on the left side of bent 1 has settled 6" exposing a void approximately 6' x 6' x 6" under the beam seat and back-wall.



**Bridge #A6493**(Routine)  
**US 270, WB LNS over SH 128**  
**Location: 2.3 MI E SH 7**

**Team Lead:** Shane Byrd **Inspection Date:** July 08, 2020

### **Inspection Comments**

Job R60107, 33121 for layout.