



Latitude:35.82085, Longitude:-90.61977

Route:18 Section:04 Log:5.9

Arnold Road ID:16x18x4xA, Arnold Log mile:5.898

District 10, 31 - Craighead County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

Bridge Posting Information

41 - Structure Open/Posted/Closed: A - Open, no restriction

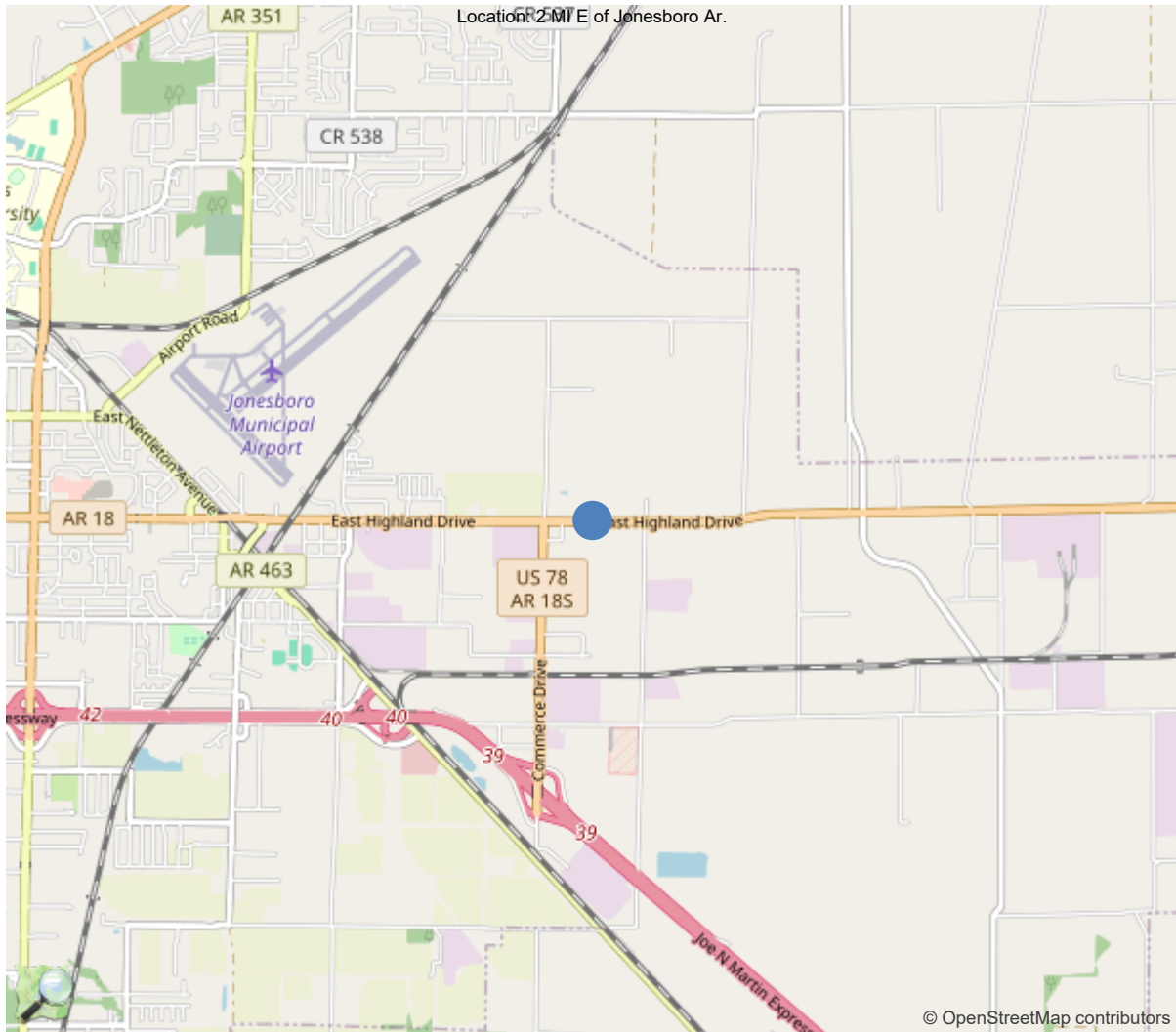
70 - Bridge Posting: 5 - Equal to or above legal loads

| Legal Load | Calculated Capacity | Beginning of Bridge Sign Current Value | End of Bridge Sign Current Value |
|------------------|---------------------|--|----------------------------------|
| Code 4 (22 Tons) | 25 | | |
| Code 9 (31 Tons) | 34 | | |
| Code 5 (40 Tons) | 45 | | |

If calculated Capacity is less than the Legal Load Listed, the Bridge Legally Requires Posting Signs to be installed by the Bridge Owner



30"x36" AR



35.82085, -90.61977



Asset #X1211(Routine)

SH 18-04-LM 5.90 over Moore Ditch

Location: 2 MI E of Jonesboro Ar.

Team Lead: Brandon Sutton Inspection Date: 07/08/2024

| IDENTIFICATION | |
|---|--|
| (1) State Names | 5 - Arkansas |
| (8) Structure Number | X1211 |
| (5) Inventory Route | 1 |
| (2) Highway Agency District | 10 - District 10 |
| (3) County Code | 31 - Craighead County |
| (4) Place Code | 35710 |
| (6) Features Intersected | Moore Ditch |
| (7) Facility Carried | SH 18-04-LM 5.90 |
| (9) Location | 2 MI E of Jonesboro Ar. |
| (11) Mile Point | 5.9 mi |
| (12) Base Highway Network | Yes |
| (13) LRS Inventory Rte & Subrte | 0000018040 |
| (16) Latitude | 35.82085 |
| (17) Longitude | -90.619766 |
| (98) Border Bridge State Code | |
| (99) Border Bridge Structure No. | |
| STRUCTURE TYPE AND MATERIAL | |
| (43) Main Structure Type | 119 |
| Material | 1 - Concrete |
| Type | 19 - Culvert |
| (44) Approach Structure Type | 00 |
| Material | 0 - Other |
| Type | 0 - Other |
| (45) No. of Spans in Main Unit | 5 |
| (46) No. of Approach Spans | 0 |
| (107) Deck Structure Type | N - Not applicable |
| (108) Wearing Surface/Protective System | |
| Type of Wearing Surface | N - Not applicable (applies only to stru |
| Type of Membrane | N - Not applicable (applies only to stru |
| Type of Deck Protection | N - Not applicable (applies only to stru |
| AGE AND SERVICE | |
| (27) Year Built | 2004 |
| (106) Year Reconstructed | 0 |
| (42) Type of Service | 15 |
| On | 1 - Highway |
| Under | 5 - Waterway |
| (28) Lane | |
| On | 4 |
| Under | 0 |
| (29) Average Daily Traffic | 14150 |
| (30) Year of ADT | 2018 |
| (109) Truck ADT | 1 % |
| (19) Bypass, Detour Length | 4 mi |
| GEOMETRIC DATA | |
| (48) Length of Maximum Span | 11 ft |
| (49) Structure Length | 58.3 ft |
| (50) Curb or Sidewalk Width | |
| Left | 0 ft |
| Right | 0 ft |
| (51) Bridge Roadway Width Curb to Curb | 0 ft |
| (52) Deck Width Out to Out | 0 ft |
| (32) Approach Roadway Width (W/Shoulders) | 75.1 ft |
| (33) Bridge Median | 0 - No median |
| (34) Skew | 0 Deg |
| (35) Structure Flared | 0 - No flare |
| (10) Inventory Route Min Vert Clear | 99.99 ft |
| (47) Inventory Route Total Horiz Clear | 99.9 ft |
| (53) Min Vert Clear Over Bridge Rdwy | 99.99 ft |
| (54) Min Vert Underclear | 0 ft |
| Ref: | |
| (55) Min Lat Underclear RT | 0 ft |
| Ref: | |
| (56) Min Lat Underclear LT | 0 ft |
| NAVIGATION DATA | |
| (38) Navigation Control | 0 - No navigation control on w |
| (111) Pier Protection | |
| (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 Art |
| (100) Defense Highway | 0 - The inventory route is not |
| (101) Parallel Structure | N - No parallel structure exis |
| (102) Direction of Traffic | 2 - way traffic |
| (103) Temporary Structure | |
| (105) Federal Lands Highways | 0 - N/A |
| (110) Designated National Network | 0 - The inventory route is not |
| (20) Toll | 3 - On free road. The structu |
| (21) Maintain | 1 - State Highway Agency |
| (22) Owner | 1 - State Highway Agency |
| (37) Historical Significance | 4 - Historical significance is |
| CONDITION | |
| (58) Deck | N |
| (59) Superstructure | N |
| (60) Substructure | N |
| (61) Channel & Channel Protection | 6 |
| (62) Culverts | 7 |
| LOAD RATING AND POSTING | |
| (31) Design Load | 4 - M 18 / H 20 |
| (63) Operating Rating Method | 1 |
| (64) Operating Rating | |
| Type | 1 - Load Factor(LF) |
| Rating | 36 |
| (65) Inventory Rating Method | 1 - Load Factor(LF) |
| (66) Inventory Rating | |
| Type | |
| Rating | 22 |
| (70) Bridge Posting | 5 - Equal to or above legal loads |
| (41) Structure Open/Posted/Closed | A - Open, no restriction |
| APPRAISAL | |
| (67) Structural Evaluation | |
| (68) Deck Geometry | N |
| (69) Clearances, Vertical/Horizontal | N |
| (71) Waterway Adequacy | 8 |
| (72) Approach Roadway Alignment | 8 |
| (36A) Bridge Railings | N - Not applicable or a safety feat |
| (36B) Transitions | N - Not applicable or a safety feat |
| (36C) Approach Guardrail | N - Not applicable or a safety feat |
| (36D) Approach Guardrail Ends | N - Not applicable or a safety feat |
| (113) Scour Critical Bridges | 8 - Bridge foundations determined t |
| 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 | 16104 |
| (115) Year of Future ADT | 2028 |

| INSPECTIONS * | | | |
|--|------------|-------------|------|
| (90) Inspection Date | 07/08/2024 | | |
| (91) Frequency | 24 | | |
| (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. | | | |



General Observation

7/8/2024 BDS/DJW performed a visual routine inspection by walking the barrels and channel. A Mavic 3 drone was used for inventory photos.

Quintuplet 11' x 7' RCBC built under job 100212. Plans call for Quad 9' x 7', but was increased due to public concerns. A memo dated 9/3/2002 references a quadruple 12' x 8'. Actual field measurements show quintuplet 11' x 7'.

61 - Channel/Channel Protection (6 - Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly.) Barrels 1, 2 and 5 have up to 2' of sediment buildup.
Channel on left end has drift buildup on division walls.
Channel on right side has sediment and vegetation buildup and small beaver dam.

62 - Culverts (7 - Shrinkage cracks, light scaling and insignificant spalling which does not expose reinforcing steel. Insignificant damage caused by drift with no misalignment and not requiring corrective action. Some minor scouring has occurred near curtain walls, wingwalls or pipes. Metal culverts have a smooth symmetrical curvature with superficial corrosion and no pitting.)
RCBC is in overall good condition, with cracks in under surface and walls.

A-27 - Job Number (100212)
Station 116+53

A-63 - Missing/Incorrect Log Mile Signage (Y)
Log mile signs are missing.



Elevation view



Roadway view



Upstream channel view



Downstream channel view

Maintenance Needs

Date Reported: 07/18/2016

Priority: D- Routine

Type of Work: Channel Work/Drift Removal

Status: Monitor

Component: Channel

Deficiency Description

Barrels 1, 2 and 5 have up to 2' of sediment buildup.
Channel on left end has drift buildup on division walls.
Channel on right side has sediment and vegetation buildup and small beaver dam.

Remarks



07/08/2024

Channel right side sediment and vegetation buildup and small beaver dam



07/08/2024

Barrels 3 and 4 minor beaver dam buildup



Routine Maintenance

Check Box Maintenance Items

| Type of Maintenance | Is recommended? |
|---|-----------------|
| A-54 - Sealable Deck Cracks | No |
| A-55 - Deck Washing Needed | No |
| A-56 - Joint Cleaning/Flushing Needed | No |
| A-57 - Beam End and Bearing Paint Needed | No |
| A-58 - Cap Cleaning/Flushing Needed | No |
| A-59 - Joint Repair Needed | No |
| A-60 - Full Beam Painting Needed | No |
| A-61 - Polymer Overlay Advised | No |
| A-62 - Hydro and LMC Advised | No |
| A-63 - Missing/Incorrect Log Mile Signage | Yes |
| A-64 - Vegetation Removal Requested | No |

A-54 - Sealable Deck Cracks (No)

A-55 - Deck Washing Needed (No)

A-56 - Joint Cleaning/Flushing Needed (No)



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A-57 - Girder End and Bearing Painting Needed (No)

A-58 - Cap Cleaning/Flushing Needed (No)

A-59 - Joint Repair Needed (No)

A-60 - Full Girder Painting Needed (No)

A-61 - Polymer Overlay Advised (No)

A-62 - Hydro and LMC Advised (No)

A-63 - Missing/Incorrect Log Mile Signage (Yes)
Log mile signs are missing.

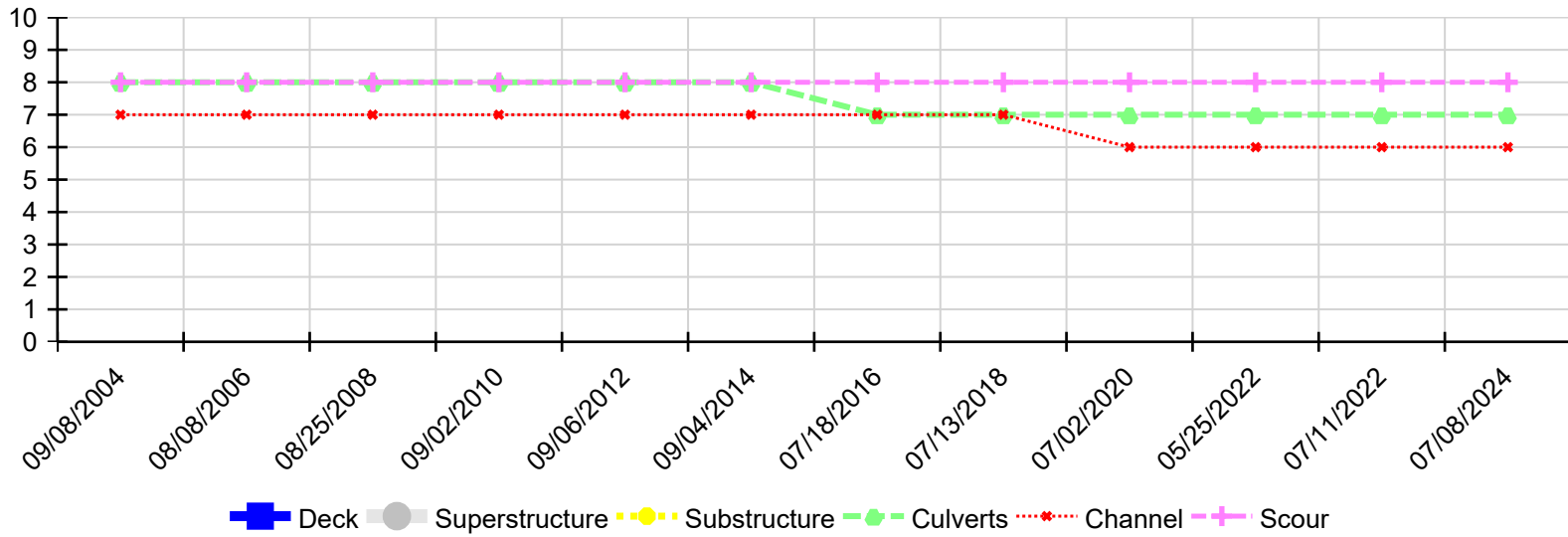
A-64 - Vegetation Removal Requested (No)



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Condition History



| Inspection Date | Deck | Superstructure | Substructure | Culverts | Channel | Scour |
|-----------------|------|----------------|--------------|----------|---------|-------|
| 07/08/2024 | N | N | N | 7 | 6 | 8 |
| 07/11/2022 | N | N | N | 7 | 6 | 8 |
| 05/25/2022 | N | N | N | 7 | 6 | 8 |
| 07/02/2020 | N | N | N | 7 | 6 | 8 |
| 07/13/2018 | N | N | N | 7 | 7 | 8 |
| 07/18/2016 | N | N | N | 7 | 7 | 8 |
| 09/04/2014 | N | N | N | 8 | 7 | 8 |
| 09/06/2012 | N | N | N | 8 | 7 | 8 |
| 09/02/2010 | N | N | N | 8 | 7 | 8 |
| 08/25/2008 | N | N | N | 8 | 7 | 8 |
| 08/08/2006 | N | N | N | 8 | 7 | 8 |
| 09/08/2004 | N | N | N | 8 | 7 | 8 |