



Latitude:36.16371, Longitude:-90.40026

Route:49 Section:02 Log:7.13

Arnold Road ID:28x49x2xA, Arnold Log mile:7.177

District 10, Greene County

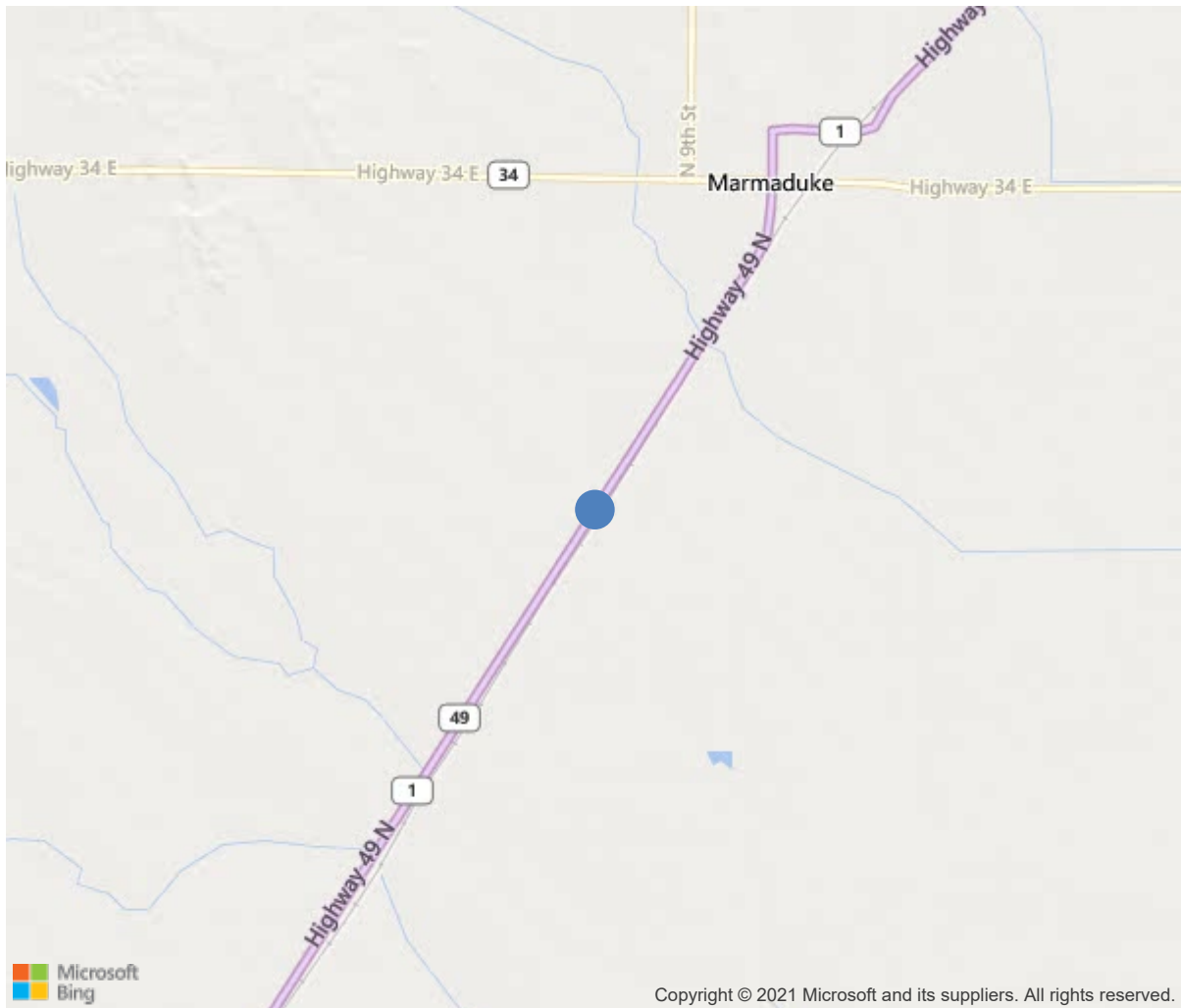
Owner: 1-State Highway Agency



Bridge #03085(Routine)  
US 49-02- LM 7.13 over LOCUST CREEK  
Location: 9.63 NE JCT US 412

Team Lead: James Adams Inspection Date: November 19, 2020

9.63 NE JCT US 412



36.16371, -90.40026



Bridge #03085(Routine)

US 49-02- LM 7.13 over LOCUST CREEK

Location: 9.63 NE JCT US 412

Team Lead: James Adams Inspection Date: November 19, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03085
(5) Inventory Route	49
(2) Highway Agency District	10
(3) County Code	55-Greene County, Arkansas
(4) Place Code	0
(6) Features Intersected	LOCUST CREEK
(7) Facility Carried	US 49-02- LM 7.13
(9) Location	9.63 NE JCT US 412
(11) Mile Point	7.13 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000049020
(16) Latitude	36.16371
(17) Longitude	-90.40026
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	11
Material	1-Concrete
Type	1-Slab
(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	6-Bituminous
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1961
(106) Year Reconstructed	0
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	6300
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	2 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	75 ft
(50) Curb or Sidewalk Width	
Left	1.4 ft
Right	1.4 ft
(51) Bridge Roadway Width Curb to Curb	28 ft
(52) Deck Width Out to Out	31.5 ft
(32) Approach Roadway Width (W/Shoulders)	40 ft
(33) Bridge Median	0-No median
(34) Skew	30 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	30.8 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	99.9 ft
Ref:	
(56) Min Lat Underclear LT	0 ft
NAVIGATION DATA	
(38) Navigation Control	0-No navigation control on water
(111) Pier Protection	5-None present but re-evaluation
(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	0
(26) Functional Class	6-Rural Minor Arterial
(100) Defense Highway	0-The inventory route is not a S
(101) Parallel Structure	N-No parallel structure exists.
(102) Direction of Traffic	2 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0-N/A
(110) Designated National Network	1-The inventory route is part of the
(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	7
(60) Substructure	6
(61) Channel & Channel Protection	4
(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	6
(68) Deck Geometry	2
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0-Inspected feature does not meet cur
(36B) Transitions	0-Inspected feature does not meet cur
(36C) Approach Guardrail	0-Inspected feature does not meet cur
(36D) Approach Guardrail Ends	0-Inspected feature does not meet cur
(113) Scour Critical Bridges	5-Bridge foundations determined to be
PROPOSED IMPROVEMENTS	
(75) Type of Work	Replacement of bridge or other
(76) Length of Structure Improvement	101 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 265
(96) Total Project Cost	\$ 681
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	6960
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			11/2020
(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	Yes		08/2021
* 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.			



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**Team Lead: James Adams, Inspection Date: November 19, 2020**

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	2375	2298	77	0	0
1090	Exposed Rebar	SF	2	0	2	0	0
1120	Efflorescence/Rust Staining	SF	75	0	75	0	0
510	Wearing Surfaces	SF	2100	1897	0	203	0
3220	Crack (Wearing Surface)	SF	203	0	0	203	0
215	Reinforced Concrete Abutment	LF	95	59	2	34	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
1090	Exposed Rebar	LF	5	0	0	5	0
6000	Scour	LF	29	0	0	29	0
(215)	Heavy slope erosion under span 3 has undermined 20ft. on Rt. of Bt. 4 abutment, exposing up to 3ft of piles 1 & 2 and 3ft. back under abutment, slow progression of erosion continues. See photos maintenance needs						
227	Reinforced Concrete Pile	EA	13	5	5	3	0
1190	Abrasion/Wear (PSC/RC)	EA	5	0	5	0	0
6000	Scour	EA	3	0	0	3	0
234	Reinforced Concrete Pier Cap	LF	77	63	4	10	0
1080	Delamination/Spall/Patched Area	LF	4	0	4	0	0
1090	Exposed Rebar	LF	10	0	0	10	0
301	Pourable Joint Seal	LF	65	65	0	0	0
330	Metal Bridge Railing	LF	150	150	0	0	0
515	Steel Protective Coating	SF	510	510	0	0	0
3440	Effectiveness (Steel Protective Coatings)	SF	510	510	0	0	0



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**Team Lead:** James Adams **Inspection Date:** November 19, 2020



### Maintenance Needs

**Date Reported:** 01/09/2012  
**Priority:** B - Pressing; 6 month completion goal  
**Type of Work:** None  
**Status:** Assigned  
**Component:**

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### Deficiency Description

Bent 4 abutment is undermined for 29' on Rt end up to 4' below and 3' back under. 3 piles are exposed.

### Remarks

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Bent 4 RT SIDE 2019



VOID



Bent 4 erosion 2020





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**Location: 9.63 NE JCT US 412**

**Team Lead:** James Adams **Inspection Date:** November 19, 2020

**Date Reported:** 11/19/2020

**Priority:** D- Routine

**Type of Work:** Repair

**Status:** Open

**Component:**

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**Deficiency Description**

Asphalt overlay has several transverse & longitudinal moderate width cracks

**Remarks**

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#### **Deck Notes**

Asphalt wearing surface has several cracks, especially over joints.

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#### **Superstructure Notes**

Slab soffit has a longitudinal crack near centerline with some efflorescence.

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#### **Substructure Notes**

Caps and abutments have a few small delaminated areas and spalls with exposed rebar. Bent 3 piles have minor abrasion near water level.

Bent 3 cap has 3 ft. on left end with minor deterioration & a 1 ft. horizontal crack over pile 3.

Minor drift at bent 3. Minor localized scour under bridge around bent 3 piling. Bent 4 abutment is undermined for 29ft. on right end up to 4 ft. below and 3ft. back under cap.