



Latitude:36.17596, Longitude:-90.39072

Route:49 Section:02 Log:6.179

Arnold Road ID:28x49x2xA, Arnold Log mile:6.177

District 10, Greene County

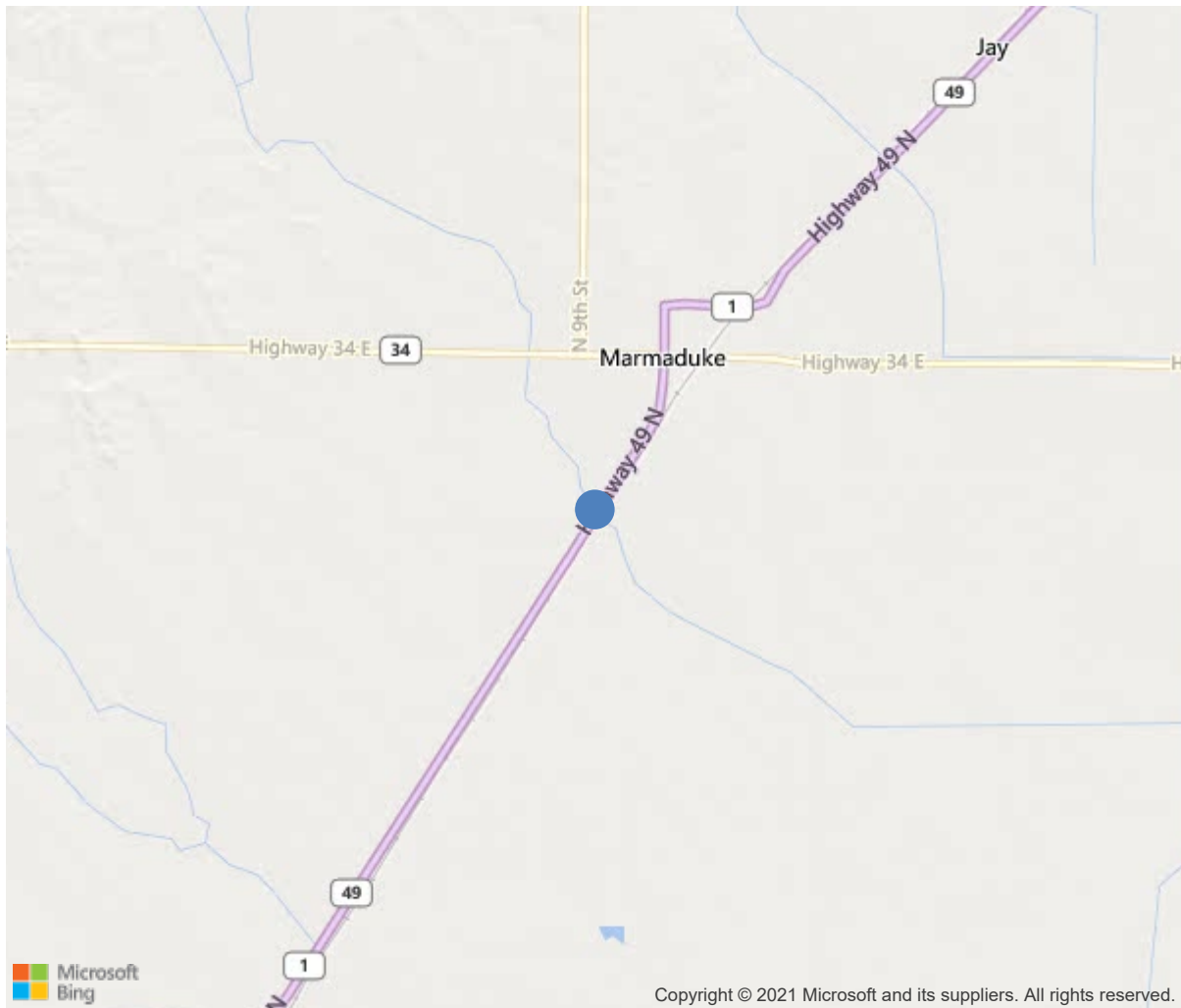
Owner: 1-State Highway Agency



Bridge #03086(Routine)
US 49-02- LM 6.18 over SLAVENS CREEK
Location: .50 MI SO OF MARMADUKE

Team Lead: James Adams Inspection Date: November 03, 2020

.50 MI SO OF MARMADUKE



36.17596, -90.39072



Bridge #03086(Routine)
US 49-02- LM 6.18 over SLAVENS CREEK
Location: .50 MI SO OF MARMADUKE

Team Lead: James Adams Inspection Date: November 03, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03086
(5) Inventory Route	49
(2) Highway Agency District	10
(3) County Code	55-Greene County, Arkansas
(4) Place Code	0
(6) Features Intersected	SLAVENS CREEK
(7) Facility Carried	US 49-02- LM 6.18
(9) Location	.50 MI SO OF MARMADUKE
(11) Mile Point	6.179 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000049020
(16) Latitude	36.1759617193087
(17) Longitude	-90.3907206805547
(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	3 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	27.9 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	0 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	27.9 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	7
(61) Channel & Channel Protection	5
(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	42
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	3
Rating	25
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	5
(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	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.			



Bridge #03086(Routine)
US 49-02- LM 6.18 over SLAVENS CREEK
Location: .50 MI SO OF MARMADUKE

Team Lead: James Adams, **Inspection Date:** November 03, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	2363	2248	105	10	0
1080	Delamination/Spall/Patched Area	SF	28	0	25	3	0
1090	Exposed Rebar	SF	7	0	0	7	0
1120	Efflorescence/Rust Staining	SF	42	0	42	0	0
1130	Cracking (RC and Other)	SF	38	0	38	0	0
510	Wearing Surfaces	SF	2100	1838	0	262	0
3220	Crack (Wearing Surface)	SF	262	0	0	262	0
215	Reinforced Concrete Abutment	LF	80	29	41	10	0
1080	Delamination/Spall/Patched Area	LF	30	0	20	10	0
1130	Cracking (RC and Other)	LF	1	0	1	0	0
6000	Scour	LF	20	0	20	0	0
227	Reinforced Concrete Pile	EA	13	3	10	0	0
1190	Abrasion/Wear (PSC/RC)	EA	10	0	10	0	0
234	Reinforced Concrete Pier Cap	LF	65	63	1	1	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1090	Exposed Rebar	LF	1	0	0	1	0
301	Pourable Joint Seal	LF	56	56	0	0	0
330	Metal Bridge Railing	LF	150	140	0	10	0
7000	Damage	LF	10	0	0	10	0
515	Steel Protective Coating	SF	510	510	0	0	0
3440	Effectiveness (Steel Protective Coatings)	SF	510	510	0	0	0



Bridge #03086(Routine)

US 49-02- LM 6.18 over SLAVENS CREEK

Location: .50 MI SO OF MARMADUKE

Team Lead: James Adams **Inspection Date:** November 03, 2020

Maintenance Needs

Date Reported: 12/10/2010
Priority: D- Routine
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Bent 4 is undermined up to 1' below and 3' back under abutment with 3 piles exposed.

Remarks



Bent 4 erosion



Bridge #03086(Routine)
US 49-02- LM 6.18 over SLAVENS CREEK
Location: .50 MI SO OF MARMADUKE

Team Lead: James Adams Inspection Date: November 03, 2020

Date Reported: 11/27/2018
Priority: D- Routine
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Rt approach rail at bent 1 end has 40' of collision damage.
Bridge rail posts have a few minor spalls with rebar exposed. Bridge rail has minor collision damage.

Remarks



Bridge #03086(Routine)
US 49-02- LM 6.18 over SLAVENS CREEK
Location: .50 MI SO OF MARMADUKE

Team Lead: James Adams Inspection Date: November 03, 2020

Date Reported: 11/03/2020
Priority: C - Important
Type of Work: Clean
Status: Open
Component:

Deficiency Description

Large tree & utility pole lodged under bridge.

Remarks



Span 2 drift



Bridge #03086(Routine)
US 49-02- LM 6.18 over SLAVENS CREEK
Location: .50 MI SO OF MARMADUKE

Team Lead: James Adams Inspection Date: November 03, 2020

Inspection Comments

-

Deck Notes

Right approach rail at bent 1 end has 40 ft. of collision damage.
Bridge rail posts have a few minor spalls with exposed rebar.
Bridge rail has minor collision damage.
Bridge rail end posts are cracked and have some settlement away from bridge.
Asphalt wearing surface has several cracks over joints & in wheel paths.

Superstructure Notes

Soffit portion of slab has a few small delaminated areas and a longitudinal crack near center line with some efflorescence.

Substructure Notes

Bent 1 abutment has a minor vertical crack.
Bent 1 abutment has delaminated areas and spalls on old scour repair portion.
Caps have a few small spalls with exposed rebar.
Right end of bent 3 cap has some minor abrasion.
Piles at bent 3 have minor abrasion near water level.
Bent 4 is undermined up to 1 ft. below and 3 ft. back under abutment with 3 piles exposed.
Large tree & utility pole lodged under bridge.
Moderate embankment erosion under spans 1 & 3.

Load Rating

The layout drawing is 10829. The span drawing is 5475.