



Latitude:36.08883, Longitude:-90.47701

Route:49 Section:02 Log:14

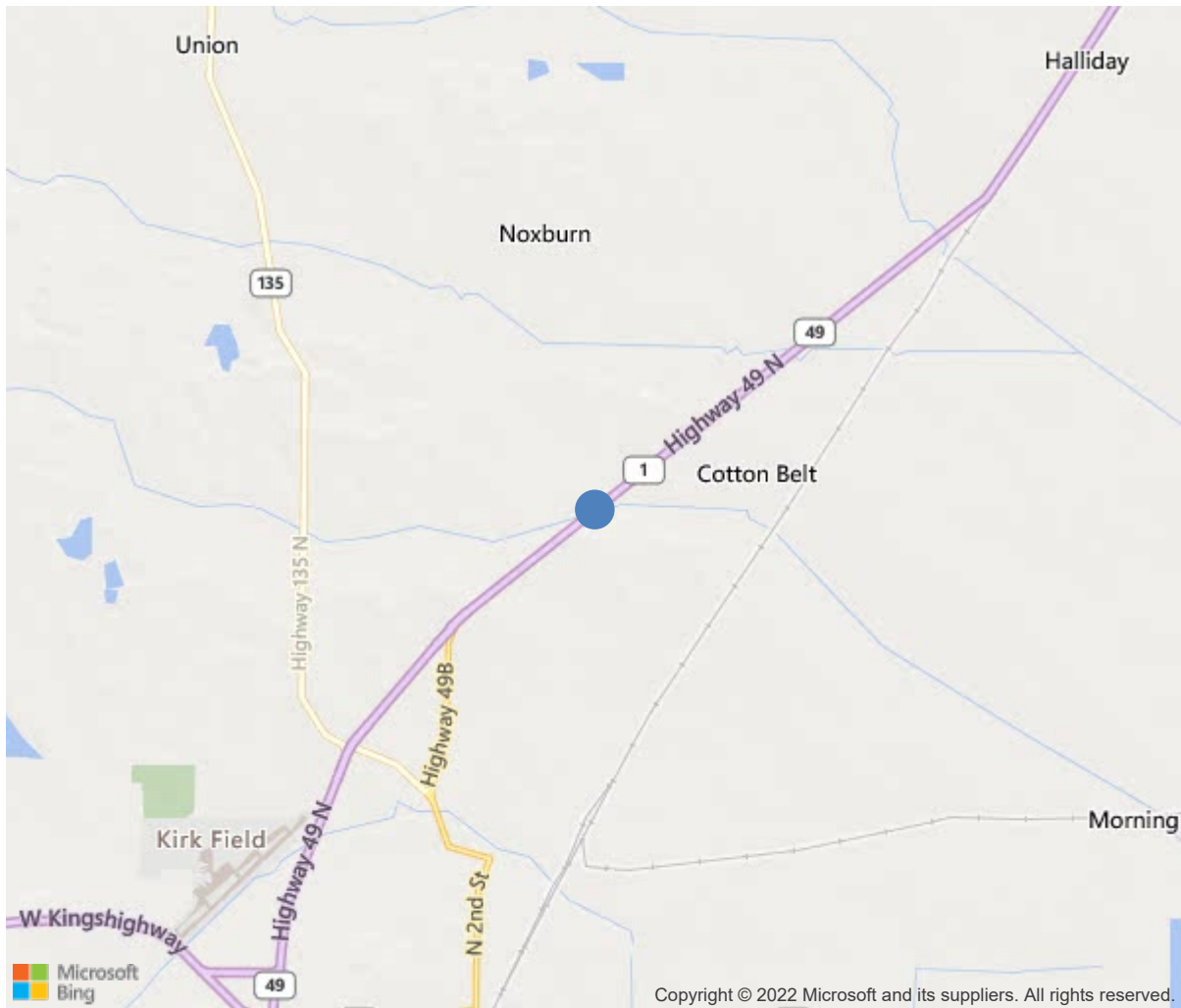
Arnold Road ID:28x49x2xA, Arnold Log mile:13.975

District 10, Greene County

Owner: 1-State Highway Agency

Place Code: 53390 - Paragould

3.03 MI N JCT U S 412



36.08883, -90.47701



Bridge #02006(Routine)
US 49-02- LM 14.00 over JOHNSON CR
Location: 3.03 MI N JCT U S 412

Team Lead: Tim Myrick Inspection Date: March 29, 2021

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	02006
(5) Inventory Route	49
(2) Highway Agency District	10
(3) County Code	55-Greene County, Arkansas
(4) Place Code	53390
(6) Features Intersected	JOHNSON CR
(7) Facility Carried	US 49-02- LM 14.00
(9) Location	3.03 MI N JCT U S 412
(11) Mile Point	14 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	36.0888264424726
(17) Longitude	-90.4770140127341
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	14
Material	1-Concrete
Type	4-Tee beam
(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	1936
(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	11000
(30) Year of ADT	2018
(109) Truck ADT	5 %
(19) Bypass, Detour Length	4 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	40 ft
(49) Structure Length	122 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	27.3 ft
(32) Approach Roadway Width (W/Shoulders)	36.1 ft
(33) Bridge Median	0-No median
(34) Skew	45 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	24.3 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	16-Urban 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	6
(60) Substructure	7
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2-M 13.5 / H 15
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	56
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	3
Rating	34
(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	9
(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	150 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 341
(96) Total Project Cost	\$ 872
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	13400
(115) Year of Future ADT	2038

INSPECTIONS *			
(90) Inspection Date			03/2021
(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.			



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Location: 3.03 MI N JCT U S 412

Team Lead: Tim Myrick, **Inspection Date:** March 29, 2021

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	3310	3219	52	39	0
1080	Delamination/Spall/Patched Area	SF	20	0	0	20	0
1090	Exposed Rebar	SF	8	0	0	8	0
1120	Efflorescence/Rust Staining	SF	11	0	0	11	0
1130	Cracking (RC and Other)	SF	52	0	52	0	0
510	Wearing Surfaces	SF	2942	0	2194	748	0
3220	Crack (Wearing Surface)	SF	2874	0	2194	680	0
3210	Delam/Spall/Patched Area/Pothole	SF	68	0	0	68	0
110	Reinforced Concrete Open Girder/Beam	LF	490	481	0	9	0
1090	Exposed Rebar	LF	9	0	0	9	0
205	Reinforced Concrete Column	EA	6	4	0	2	0
1090	Exposed Rebar	EA	1	0	0	1	0
1130	Cracking (RC and Other)	EA	1	0	0	1	0
215	Reinforced Concrete Abutment	LF	107	107	0	0	0
234	Reinforced Concrete Pier Cap	LF	64	57	2	5	0
1090	Exposed Rebar	LF	1	0	0	1	0
1120	Efflorescence/Rust Staining	LF	4	0	0	4	0
1130	Cracking (RC and Other)	LF	2	0	2	0	0
311	Movable Bearing	EA	12	0	0	12	0
1000	Corrosion	EA	12	0	0	12	0
313	Fixed Bearing	EA	12	0	0	12	0
1000	Corrosion	EA	12	0	0	12	0
331	Reinforced Concrete Bridge Railing	LF	246	226	0	20	0
1080	Delamination/Spall/Patched Area	LF	14	0	0	14	0
1130	Cracking (RC and Other)	LF	6	0	0	6	0





Maintenance Needs

Date Reported: 04/05/2011
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Superstructure

Deficiency Description

Ends of several Girders have shelled out areas with rebar exposed, 1ft. typical:

Span 1 Girder 2 Bent 2.

Span 2 Girder1&4 Bent 2

Span 2 Girders 1, 2,3 & 4 Bent 3

Span 3 Girders 1&3 Bent 3

Span 3 Girder 1 near Bent 4 has some rebar exposed due to lack of steel coverage.

Span 1 Bay 2 Diaphragm 3 and Span 2 Bay1 Diaphragm 1 have a shelled out area with rebar exposed.

Remarks



Date Reported: 04/05/2011
Priority: C - Important
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Concrete Deck with Asphalt Overlay, is cracked and spalled out with potholes especially over Bents 2&3 Joints, see 2019 photo.

Remarks



Bent 2



Bridge #02006(Routine)
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Location: 3.03 MI N JCT U S 412

Team Lead: Tim Myrick **Inspection Date:** March 29, 2021

Date Reported: 04/05/2011
Priority: G - General/ Preventive maintenance
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Right and left Concrete Curbs have some spalls, deterioration and cracking.
Bottom of Deck Soffit has some cracking with efflorescence and some shelled of areas with rebar exposed.

Remarks



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Location: 3.03 MI N JCT U S 412

Team Lead: Tim Myrick Inspection Date: March 29, 2021

Date Reported: 04/05/2011

Priority: D- Routine

Type of Work: None

Status: Monitor

Component:

Deficiency Description

Majority of Bearings are rust covered with pack rust forming.

Remarks



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US 49-02- LM 14.00 over JOHNSON CR
Location: 3.03 MI N JCT U S 412

Team Lead: Tim Myrick **Inspection Date:** March 29, 2021

Date Reported: 04/04/2013
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Bridge

Deficiency Description

Some small spalls to Concrete Posts and Railing.
Right side Concrete Rail and Post, near Bent 1, is cracked and broke.

Remarks



Bridge #02006(Routine)
US 49-02- LM 14.00 over JOHNSON CR
Location: 3.03 MI N JCT U S 412

Team Lead: Tim Myrick Inspection Date: March 29, 2021

Date Reported: 03/30/2017
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Component: Approach

Deficiency Description

Beginning Bridge End right Approach Railing has 75ft. of rail damage.

Remarks

minor damage and this area in STIP for reconstruction - KAW





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Location: 3.03 MI N JCT U S 412

Team Lead: Tim Myrick Inspection Date: March 29, 2021

Inspection Comments

Deck Notes

Beginning Bridge End right Approach Rail has 75ft. of damage.
Some small spalls to concrete posts and railing.
20 ft. area of the NW corner of concrete railing has collision damage.
4 FT of right side concrete rail and post, near bent 1, are cracked and broke.
Right and left concrete curbs have some spalls, deterioration and cracking.
Entire wearing surface has map cracking with some open cracks.
Several spalls & potholes over bents 1-4 joints.
Soffit portion of deck has some cracking with efflorescence in overhangs and some spalled areas with exposed rebar.
Asphalt at south bridge end has cracking, rutting & potholes.

Superstructure Notes

Ends of several girders have spalled out areas with exposed rebar, 1ft. each:
Span 1 Girder 2 at Bent 2.
Span 2 Girders 1 & 4 at Bent 2
Span 2 Girders 1, 2, 3 & 4 at Bent 3
Span 3 Girders 1 & 3 at Bent 3
Span 3 Girder 1 near Bent 4 has some exposed rebar due to lack of steel coverage.
Span 1 Bay 2 diaphragm 3 and Span 2 Bay 1 diaphragm 1 have spalled out areas with exposed rebar.
Majority of bearings are rust covered with pack rust forming.

Substructure Notes

Bent 1 cap has dirt and debris on top of concrete.
Bent 2 cap has 4LF of open cracks on Span 2 side with rust stains.
Bent 3 cap has 2LF of cracks.
Right End of Bent 3 cap has 1LF of exposed rebar due to lack of steel coverage.
Bent 2 Column 3 has some cracking.
Bent 3 Column 3 has some exposed rebar.
Brush in channel restricting flow.