



Latitude:34.10818, Longitude:-90.98409

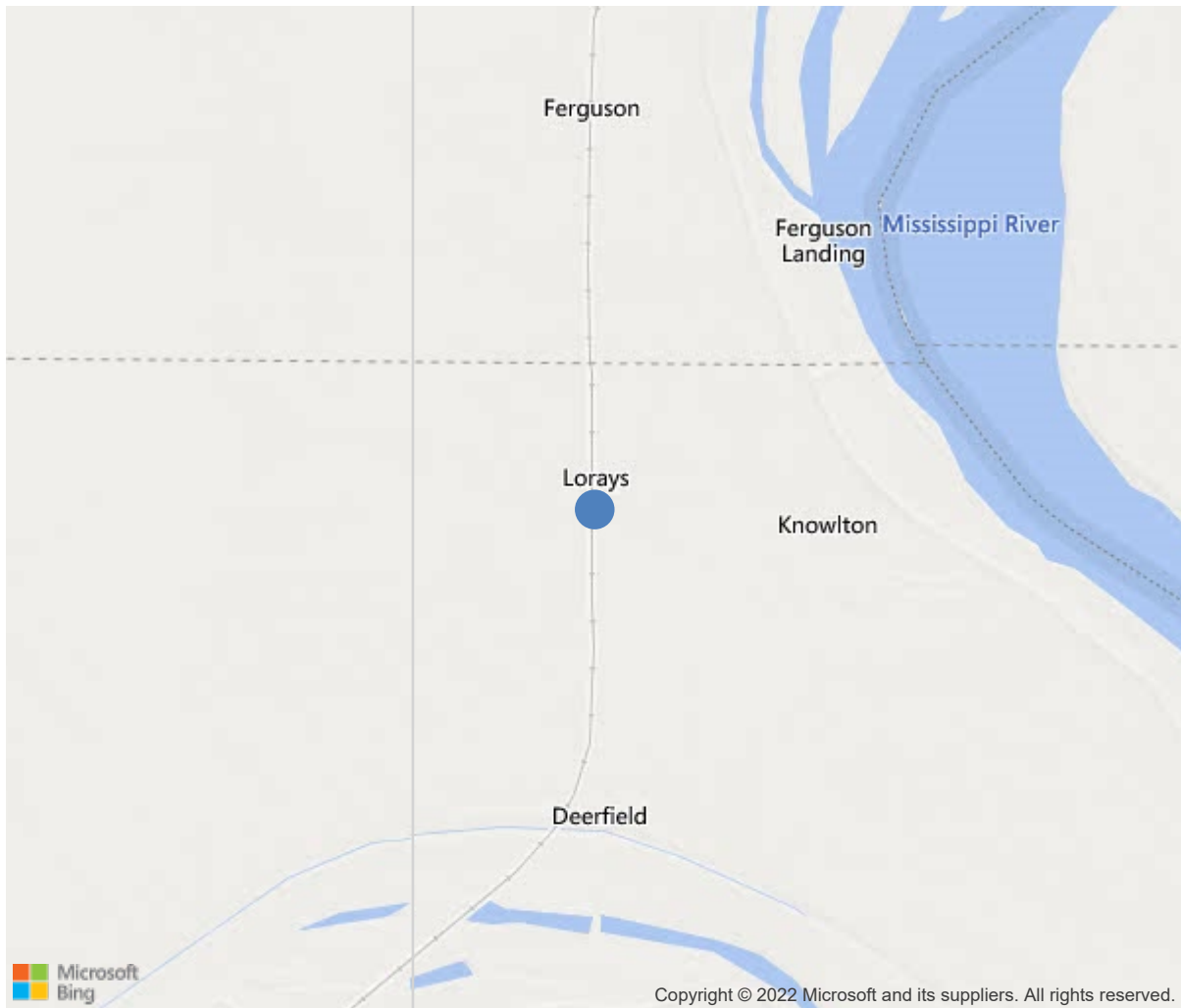
Route:44 Section:02 Log:6.67

Arnold Road ID:21x44x2xA, Arnold Log mile:6.728

District 01, Desha County

Owner: 1-State Highway Agency

0.75 Mi S Phillips Co Li



34.10818, -90.98409

Inspection Direction : W to E



Bridge #M3972(Routine)

Sh-44Sec-2/L-6.67 over Indian Bayou

Location: 0.75 Mi S Phillips Co Li

Team Lead: Myron Futrell Inspection Date: August 06, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	M3972
(5) Inventory Route	44
(2) Highway Agency District	01
(3) County Code	41-Desha County, Arkansas
(4) Place Code	0
(6) Features Intersected	Indian Bayou
(7) Facility Carried	Sh-44Sec-2/L-6.67
(9) Location	0.75 Mi S Phillips Co Li
(11) Mile Point	6.67 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.108181
(17) Longitude	-90.984093
(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	2
(46) No. of Approach Spans	0
(107) Deck Structure Type	3-Open Grating
(108) Wearing Surface/Protective System	
Type of Wearing Surface	1-Monolithic Concrete (concurrently placed
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1975
(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	180
(30) Year of ADT	2018
(109) Truck ADT	6 %
(19) Bypass, Detour Length	124 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	22 ft
(49) Structure Length	45 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	27.6 ft
(52) Deck Width Out to Out	28.5 ft
(32) Approach Roadway Width (W/Shoulders)	20 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	27.6 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 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	7-Rural Major Collector
(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	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	7
(60) Substructure	4
(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	60
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	2
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	5
(68) Deck Geometry	5
(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	
(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	69
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			08/2020
(91) Frequency			24 Months
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	Yes		/
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.			



Bridge #M3972(Routine)

Sh-44Sec-2/L-6.67 over Indian Bayou

Location: 0.75 Mi S Phillips Co Li

Team Lead: Myron Futrell, Inspection Date: August 06, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
28	Steel Deck Open Grid	SF	1282	1282	0	0	0
510	Wearing Surfaces	SF	1237	1180	57	0	0
3220	Crack (Wearing Surface)	SF	57	0	57	0	0
(28)	Bridge deck has a few open transverse cracks.						
107	Steel Open Girder/Beam	LF	180	150	30	0	0
1000	Corrosion	LF	30	0	30	0	0
515	Steel Protective Coating	SF	990	0	840	132	18
3440	Effectiveness (Steel Protective Coatings)	SF	990	0	840	132	18
(107)	Surface rust full length with little to no section loss. Steel has 10% bare steel with rest of paint has limited to moderate effectiveness.						
161	Steel Pin, Pin and Hanger Assembly	EA	32	32	0	0	0
515	Steel Protective Coating	SF	16	16	0	0	0
216	Timber Abutment	LF	114	86	28	0	0
1170	Split/Delamination (Timber)	LF	27	0	27	0	0
6000	Scour	LF	1	0	1	0	0
(216)	Abutment #2 back wall behind pile #3 has a six inch void. Timber abutments are cracked and weathered.						
228	Timber Pile	EA	15	11	0	2	2
1140	Decay/Section Loss	EA	4	0	0	2	2
(228)	Bent #1 pile #5 has outer shell decay with 60% section loss. Bent #2 pile #1 is core decayed with 50% section loss. Bent #2 pile #5 is core decayed with 80% section loss. Abutment #2 pile #1 core decayed with 80% section loss.						
235	Timber Pier Cap	LF	84	81	0	3	0
1160	Crack (Timber)	LF	3	0	0	3	0
(235)	Abutment #1 cap last three feet right end has a split near top.						
330	Metal Bridge Railing	LF	90	70	20	0	0
7000	Damage	LF	20	0	20	0	0

Team Lead: Myron Futrell, **Inspection Date:** August 06, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
515	Steel Protective Coating	SF	270	0	0	270	0
3440	Effectiveness (Steel Protective Coatings)	SF	270	0	0	270	0
(330)							
Bridge rails have some surface rust with light collision damage.							

Maintenance Needs

Date Reported: 08/21/2018
Priority: D- Routine
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Gutters have dirt and debris.

8/10/2020-No noteworthy changes since last inspection.

Remarks



Gutters have dirt and debris.



Dirt and gravel in gutters.

Date Reported: 08/21/2018
Priority: C - Important
Type of Work: N/A
Status: Forward State
Component:

Deficiency Description

Abutment #1 approach roadway has settled up to 1 1/2" with small void underneath increasing impact loading on bridge.

8/10/2020-Small hole in roadway has developed at bridge end.

Remarks



Abutment #1 approach roadway has settled with small void underneath increasing impact loading on bridge.



Abutment #1 approach roadway right lane has hole with void underneath.



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Location: 0.75 Mi S Phillips Co Li

Team Lead: Myron Futrell Inspection Date: August 06, 2020

Date Reported: 08/21/2018

Priority: D- Routine

Type of Work: N/A

Status: Monitor

Component:

Deficiency Description

Bridge deck has a few open transverse cracks.

8/10/2020-No noteworthy change since last inspection.

Remarks



Bridge deck has a few open transverse cracks.

Date Reported: 08/21/2018
Priority: D- Routine
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Vegetation is growing under and beside bridge.

8/10/2020-No noteworthy change since last inspection.

Remarks



Vegetation is growing under and beside bridge.



Vegetation growing beside and under bridge.

Date Reported: 08/21/2018
Priority: B - Pressing; 6 month completion goal
Type of Work: N/A
Status: Open
Component:

Deficiency Description

Bent #1 pile #5 is core decayed with 60% section loss.
Bent #2 pile #5 is core decayed with 80% section loss.
Abutment #2 pile #1 core decayed with 80% section loss.

8/10/2020-Reopened maintenance need due to addition of abutment #2 pile #1.

Remarks



Bent #2 pile #5



Bent #1 pile #5



Abutment #2 pile #1.



Bent #2 pile #5.



Abutment #1 pile #5.

Date Reported: 08/21/2018

Priority: D- Routine

Type of Work: N/A

Status: Monitor

Component:

Deficiency Description

Abutment #2 back wall behind pile #3 has a six inch void.

8/10/2020-No noteworthy change since last inspection.

Remarks



Abutment #2 behind pile #3

Date Reported: 08/21/2012
Priority: C - Important
Type of Work: N/A
Status: Forward State
Component:

Deficiency Description

Bent #2 pile #1 is core decayed with 50% section loss.

8/10/2020-No noteworthy change since last inspection.

Remarks



Bent #2 pile #1.

Date Reported: 08/10/2020
Priority: C - Important
Type of Work: Repair
Status: Open
Component: Approach

Deficiency Description

Abutment #2 left shoulder has small hole in roadway with small void behind back wall.

Remarks



Hole in abutment #2 left shoulder with void.



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Sh-44Sec-2/L-6.67 over Indian Bayou
Location: 0.75 Mi S Phillips Co Li

Team Lead: Myron Futrell **Inspection Date:** August 06, 2020

Inspection Comments

Abutment #1 and 2 approach roadways have settled up to 1 1/2".
Abutment #1 approach roadway right lane has small hole at bridge end.
Abutment #2 left shoulder at bridge end has small hole with a void at bridge end.
Vegetation growing beside, under and onto bridge.
Gutters have dirt and debris.

Substructure Notes

8/10/2020-Lowered substructure from 5 to 4 due to pile condition.