



Latitude:35.46821, Longitude:-90.18201

Route:61 Section:02 Log:2.53

Arnold Road ID:47x61x2xA, Arnold Log mile:2.528

District 10, Mississippi County

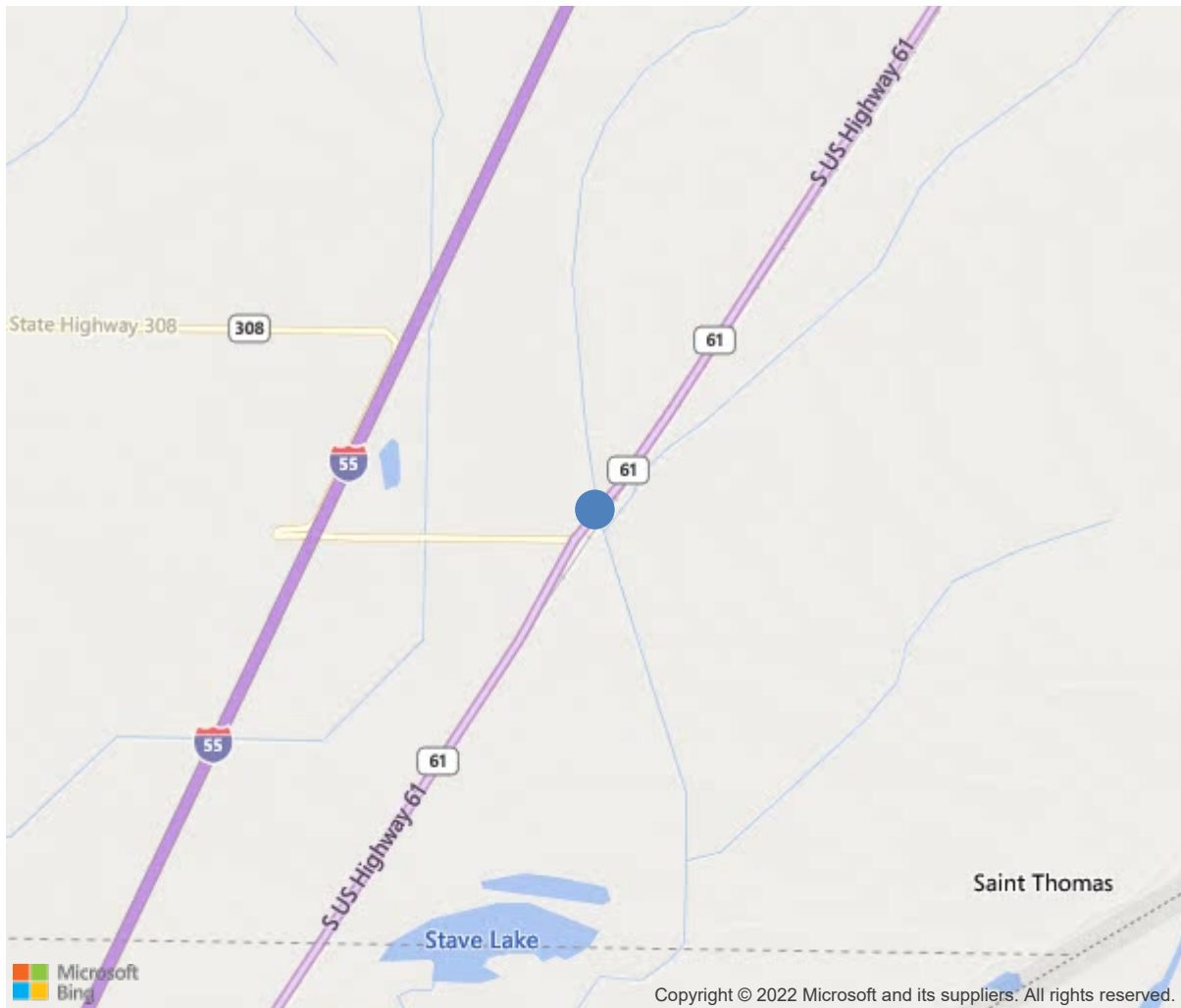
Owner: 1-State Highway Agency



**Bridge #01268(Routine)**  
**US 61-02- LM 2.53 over FRENCHMANS BAYOU**  
**Location: 2.53 MI N CRITTENDEN CO**

**Team Lead:** Richard Jones **Inspection Date:** November 01, 2021

2.53 MI N CRITTENDEN CO



35.46821, -90.18201

Inspection Direction : S to N





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Location: 2.53 MI N CRITTENDEN CO

Team Lead: Richard Jones Inspection Date: November 01, 2021

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	01268
(5) Inventory Route	61
(2) Highway Agency District	10
(3) County Code	93-Mississippi County, Arkansa
(4) Place Code	0
(6) Features Intersected	FRENCHMANS BAYOU
(7) Facility Carried	US 61-02- LM 2.53
(9) Location	2.53 MI N CRITTENDEN CO
(11) Mile Point	2.53 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.46821
(17) Longitude	-90.18201
(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	6
(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	1954
(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	440
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	8 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	150 ft
(50) Curb or Sidewalk Width	
Left	1.5 ft
Right	1.5 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)	36.1 ft
(33) Bridge Median	0-No median
(34) Skew	38 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	28 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	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	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	4
(59) Superstructure	4
(60) Substructure	6
(61) Channel & Channel Protection	6
(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	47
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	6
Rating	28
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	4
(68) Deck Geometry	5
(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	
(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	1025
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			11/2021
(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	Yes		12/2020
* 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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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	4725	3754	58	913	0
1080	Delamination/Spall/Patched Area	SF	8	0	8	0	0
1090	Exposed Rebar	SF	59	0	0	59	0
1120	Efflorescence/Rust Staining	SF	878	0	50	828	0
1130	Cracking (RC and Other)	SF	26	0	0	26	0
510	Wearing Surfaces	SF	4200	3283	200	717	0
3220	Crack (Wearing Surface)	SF	100	0	0	100	0
3210	Delam/Spall/Patched Area/Pothole	SF	817	0	200	617	0
215	Reinforced Concrete Abutment	LF	102	87	14	1	0
1080	Delamination/Spall/Patched Area	LF	2	0	1	1	0
1130	Cracking (RC and Other)	LF	3	0	3	0	0
6000	Scour	LF	10	0	10	0	0
227	Reinforced Concrete Pile	EA	30	7	17	6	0
1130	Cracking (RC and Other)	EA	11	0	5	6	0
1190	Abrasion/Wear (PSC/RC)	EA	12	0	12	0	0
234	Reinforced Concrete Pier Cap	LF	210	163	9	38	0
1080	Delamination/Spall/Patched Area	LF	4	0	4	0	0
1090	Exposed Rebar	LF	9	0	0	9	0
1120	Efflorescence/Rust Staining	LF	30	0	1	29	0
1130	Cracking (RC and Other)	LF	4	0	4	0	0
301	Pourable Joint Seal	LF	199	0	0	199	0
2350	Debris Impaction	LF	199	0	0	199	0
321	Reinforced Concrete Approach Slab	SF	1400	1141	0	259	0
1130	Cracking (RC and Other)	SF	259	0	0	259	0
330	Metal Bridge Railing	LF	300	125	175	0	0
1000	Corrosion	LF	175	0	175	0	0
515	Steel Protective Coating	SF	960	320	80	80	480
3440	Effectiveness (Steel Protective Coatings)	SF	640	0	80	80	480





Wearing surface





Span 2



Span 3





Span 4



Span 6





Span 1



Span 2





Span 3



Span 4





Span 5 center line



Span 5 Rt





Bent 5



Bent 6 ahead at pile 4





Span 6



Bent 7 Lt

## Maintenance Needs

**Date Reported:** 01/24/2012  
**Priority:** C - Important  
**Type of Work:** None  
**Status:** Monitor  
**Component:** 510 - 38 - RC Slab

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## Deficiency Description

Wearing surface has several longitudinal cracks, map cracks and delaminated areas or patches in wheel paths. Wearing surface is mostly delaminated or spalled/raveling out along gutters and over joints.

## Remarks

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Span 4 right curb & deck.





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Date Reported: 01/24/2012  
Priority: C - Important  
Type of Work: Repair  
Status: Monitor  
Component: Deck

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#### Deficiency Description

Gutters have several delaminated or spalled areas and a few patched areas. Patches are in fair to poor condition.

#### Remarks

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**Team Lead:** Richard Jones **Inspection Date:** November 01, 2021



Span 2 Lt curb



**Date Reported:** 01/24/2012  
**Priority:** C - Important  
**Type of Work:** Repair  
**Status:** Monitor  
**Component:** Deck

---

**Deficiency Description**

Slab soffit has several longitudinal cracks with heavy efflorescence or rust stains under gutters and outside wheel path. Soffit has several spalls with exposed rebar, mostly near centerline or outside edges at drain openings.

**Remarks**

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Span 4 soffit RT side





Span 1 left side soffit.



Span 3 left drain opening.



Span 3 right opening.







Span 5 right drain opening.



Span 4 soffit right side.





Span 5 soffit near centerline.





Span 1 soffit







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Location: 2.53 MI N CRITTENDEN CO

Team Lead: Richard Jones Inspection Date: November 01, 2021

Date Reported: 01/27/2014  
Priority: D- Routine  
Type of Work: None  
Status: Monitor  
Component: Deck

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#### Deficiency Description

Lt and Rt curbs have areas of concrete disintegration some exposed rebar.

#### Remarks

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Span 4 right curb & deck.





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Location: 2.53 MI N CRITTENDEN CO

Team Lead: Richard Jones Inspection Date: November 01, 2021

Date Reported: 01/27/2014  
Priority: G - General/ Preventive maintenance  
Type of Work: None  
Status: Monitor  
Component: Miscellaneous

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#### Deficiency Description

Metal rails have scattered areas of surface rust.

#### Remarks

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**Team Lead:** Richard Jones **Inspection Date:** November 01, 2021

**Date Reported:** 01/27/2014  
**Priority:** G - General/ Preventive maintenance  
**Type of Work:** None  
**Status:** Monitor  
**Component:** Channel

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**Deficiency Description**

Bent 1 abutment is undermined on Lt end up to 1' below and 2' back under.

**Remarks**

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Bent 1 Lt



**Date Reported:** 01/27/2014  
**Priority:** G - General/ Preventive maintenance  
**Type of Work:** Repair  
**Status:** Monitor  
**Component:** Substructure

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**Deficiency Description**

Caps have several cracks with efflorescence. Caps have some deterioration near ends.  
Caps have a few spalls with rebar exposed.

**Remarks**

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Right end bent 4 cap span 4 side.



Left end bent 4 cap span 3 side.



Bent 5 cap span 5 side over pile 3.



**Date Reported:** 01/27/2014  
**Priority:** D- Routine  
**Type of Work:** Repair  
**Status:** Monitor  
**Component:** Substructure

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**Deficiency Description**

Bent 5 cap has a 4' spall with exposed rebar between piles 1 and 2.

**Remarks**

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Bent 5 cap between piles 2 & 3.

**Date Reported:** 01/27/2014  
**Priority:** C - Important  
**Type of Work:** Clean  
**Status:** Monitor  
**Component:** Channel

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**Deficiency Description**

Moderate drift on bents 4 & 5 and under span 4.

**Remarks**

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**Date Reported:** 11/24/2015  
**Priority:** G - General/ Preventive maintenance  
**Type of Work:** None  
**Status:** Monitor  
**Component:** Substructure

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**Deficiency Description**

Several piles have vertical cracks near top. Some have efflorescence or rust stains.

**Remarks**

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Bent 6 pile 6.



Bent 3 pile 2



Bent 3 pile 1





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Location: 2.53 MI N CRITTENDEN CO

Team Lead: Richard Jones Inspection Date: November 01, 2021

## Inspection Comments

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### Deck Notes

Metal rails have scattered areas of surface rust.

Lt and Rt curbs have areas of concrete disintegration some exposed rebar.

Wearing surface has several longitudinal cracks, map cracks and delaminated areas or patches in wheel paths. Wearing surface is mostly delaminated or spalled/raveling out along gutters and over joints.

Slab spans have a lateral shift, up to 2.5". Reported since 1986.

Gutters have a few patched areas. Patches are in fair to poor condition.

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### Superstructure Notes

Slab soffit has several longitudinal cracks with heavy efflorescence or rust stains under gutters and outside wheel path. Soffit has several spalls with exposed rebar, mostly near centerline or outside edges at drain openings.

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### Substructure Notes

Bent 1 abutment is undermined on Lt end up to 1' below and 2' back under.

Caps have several cracks with efflorescence. Caps have some deterioration near ends.

Caps have a few spalls with rebar exposed.

Bent 5 cap has a 4' spall with exposed rebar between piles 1 and 2.

Bent 6 cap has a possible settlement crack on ahead side over pile 4.

Bent 7 Lt wing/endpost is rotated toward the channel.

Several piles have vertical cracks near top. Some have efflorescence or rust stains.

Piles have minor abrasion near ground line.

Moderate drift on bents 4 & 5 and under span 4.