



Latitude:36.16632, Longitude:-91.16261

Route:63 Section:03 Log:9.11

Arnold Road ID:38x63x3xA, Arnold Log mile:9.052

District 10, Lawrence County

Owner: 1-State Highway Agency



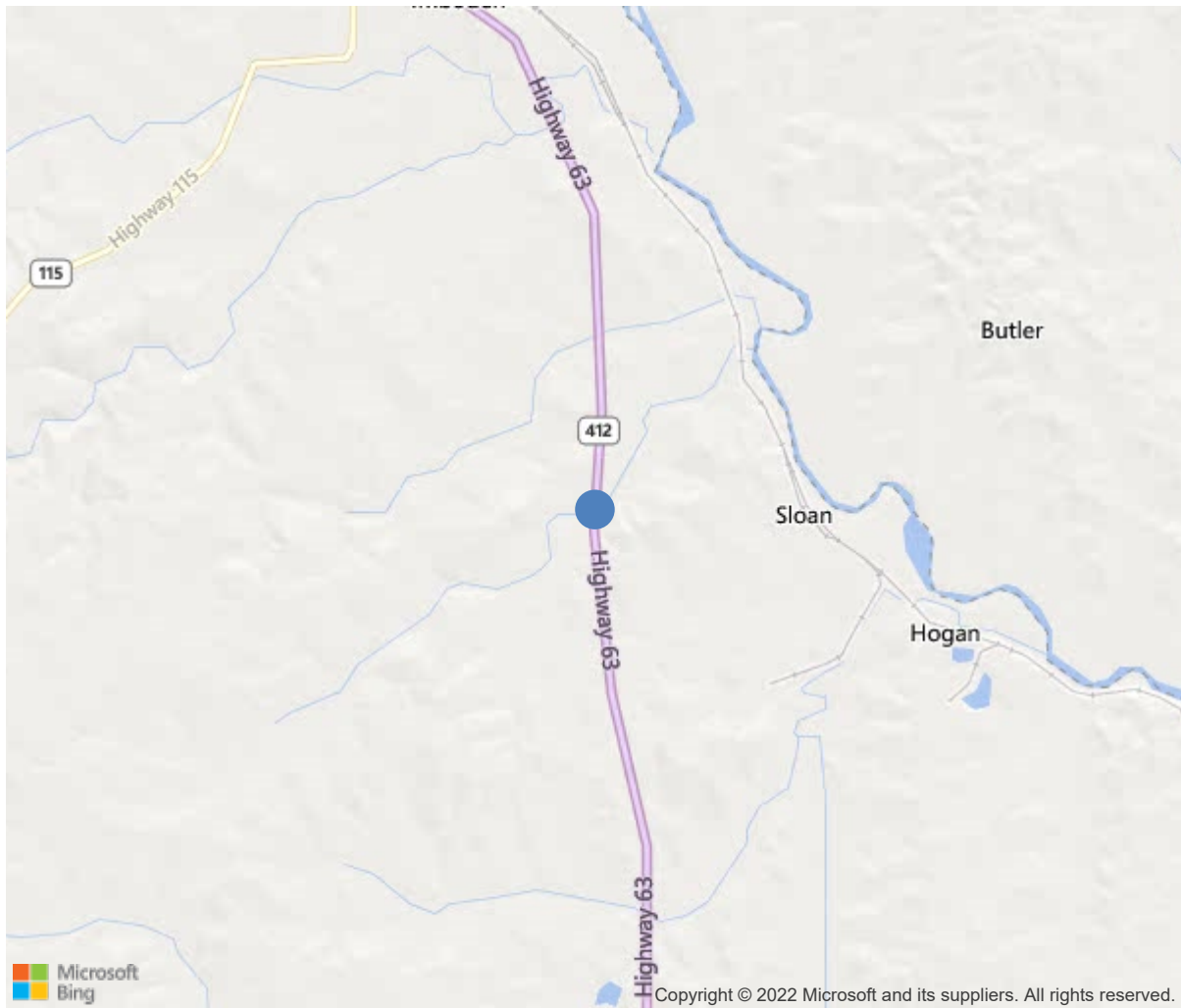
Bridge #A0652(Underwater type 2, Routine)

US 63-03- LM 9.11 over Clear/Chaplin Crk

Location: 9.08 MI SE SHARP CO LINE

Team Lead: Tim Myrick **Inspection Date:** August 31, 2021

9.08 MI SE SHARP CO LINE



36.16632, -91.16261

Inspection Direction : N to S



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Location: 9.08 MI SE SHARP CO LINE

Team Lead: Tim Myrick Inspection Date: August 31, 2021

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	A0652
(5) Inventory Route	63
(2) Highway Agency District	10
(3) County Code	75-Lawrence County, Arkansas
(4) Place Code	0
(6) Features Intersected	Clear/Chaplin Crk
(7) Facility Carried	US 63-03- LM 9.11
(9) Location	9.08 MI SE SHARP CO LINE
(11) Mile Point	9.11 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000063030
(16) Latitude	36.16632
(17) Longitude	-91.16261
(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	2
(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	1929
(106) Year Reconstructed	1954
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	5700
(30) Year of ADT	2014
(109) Truck ADT	26 %
(19) Bypass, Detour Length	9 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	50 ft
(50) Curb or Sidewalk Width	
Left	1 ft
Right	1 ft
(51) Bridge Roadway Width Curb to Curb	32.5 ft
(52) Deck Width Out to Out	33.5 ft
(32) Approach Roadway Width (W/Shoulders)	29.9 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	25.9 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	1
(26) Functional Class	2-Rural Principal Arterial - Oth
(100) Defense Highway	2-The inventory route is on a No
(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	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	4-M 18 / H 20
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	49
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	2
Rating	30
(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	4
(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	8-Bridge foundations determined to be
PROPOSED IMPROVEMENTS	
(75) Type of Work	Replacement of bridge or other
(76) Length of Structure Improvement	75 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 400
(96) Total Project Cost	\$ 770
(97) Year of Improvement Cost Estimate	2004
(114) Future ADT	7872
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	08/2021		
(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: 9.08 MI SE SHARP CO LINE

Team Lead: Tim Myrick, **Inspection Date:** August 31, 2021

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	1675	1665	10	0	0
1120	Efflorescence/Rust Staining	SF	10	0	10	0	0
510	Wearing Surfaces	SF	1625	1521	0	104	0
3220	Crack (Wearing Surface)	SF	104	0	0	104	0
110	Reinforced Concrete Open Girder/Beam	LF	250	233	11	6	0
1080	Delamination/Spall/Patched Area	LF	4	0	0	4	0
1090	Exposed Rebar	LF	1	0	0	1	0
1130	Cracking (RC and Other)	LF	12	0	11	1	0
205	Reinforced Concrete Column	EA	5	0	5	0	0
6000	Scour	EA	5	0	5	0	0
215	Reinforced Concrete Abutment	LF	100	57	15	28	0
1120	Efflorescence/Rust Staining	LF	28	0	0	28	0
6000	Scour	LF	15	0	15	0	0
234	Reinforced Concrete Pier Cap	LF	28	26	0	2	0
1080	Delamination/Spall/Patched Area	LF	2	0	0	2	0
330	Metal Bridge Railing	LF	100	0	100	0	0
1000	Corrosion	LF	100	0	100	0	0
515	Steel Protective Coating	SF	340	68	0	0	272
3440	Effectiveness (Steel Protective Coatings)	SF	272	0	0	0	272









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Location: 9.08 MI SE SHARP CO LINE

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Maintenance Needs

Date Reported: 11/08/2011

Priority: D- Routine

Type of Work: Clean

Status: Monitor

Component: Channel

Deficiency Description

Bent 2 has a Drift buildup under bridge.

Remarks



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Location: 9.08 MI SE SHARP CO LINE

Team Lead: Tim Myrick **Inspection Date:** August 31, 2021

Date Reported: 11/08/2011
Priority: G - General/ Preventive maintenance
Type of Work: Repair
Status: Monitor
Component: 515 - 330 - Metal Bridge Railing

Deficiency Description

Bridge Rail has 80% paint deterioration to bridge rails.

Remarks



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Team Lead: Tim Myrick **Inspection Date:** August 31, 2021

Date Reported: 11/08/2011
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Component: Superstructure

Deficiency Description

Span 2 under Girder 5 Bent 2 has a small shelled out area face of cap (1 ft. x 2 ft.) no exposed rebar.

Remarks



Span 2 girder 5 at bent 2



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Date Reported: 11/08/2011
Priority: G - General/ Preventive maintenance
Type of Work: Repair
Status: Monitor
Component: Channel

Deficiency Description

Channel Scour hole near Lt end of footing Bent 1, footing exposed, (appears to be keyed into rock) as previously reported. Bent 2 Column 5 Footing is exposed.

Remarks

Date Reported: 11/19/2013
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Component: Superstructure

Deficiency Description

Span 1 Girder 2 Bent 2 has a 2LF of delamination.
Span 1 Girder 2 Bent 2 Diaphragm has a small spalled area.
Span 1 Girder 3 Bent 2 is cracked with some delamination.

Span 1 Girder 4 Bent 2 girder haunch is shelled out (6in. x 12in.) with rebar exposed, see 2013 photo.
Span 2 Girder 5 Bent 2 has an open crack on end of girder. See 2019 photo.

Remarks



Span 2 girder 5 at bent 2





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Deck Notes

Bridge rails have 80% paint deterioration.

Concrete deck with asphalt overlay has some cracking over joints.

Soffit portion of deck has insignificant size and density cracks with light efflorescence.

Superstructure Notes

Concrete girders have moderate width transverse cracks.

Span 1 girder 2 Bent 2 has minor delamination.

Span 1 girder 2 Bent 2 Diaphragm has a small spalled area.

Span 1 girder 3 bent 2 is cracked with some delamination. Span 1 girder 4 bent 2 girder haunch is spalled (6" x 12") with exposed rebar.

Span 2 girder 5 bent 2 has an open crack on end of girder.

Substructure Notes

Bent 1 abutment & wingwall, left end has scour exposing some of the footing, (appears to be keyed into rock) as previously reported.

Bents 1 & 3 abutments have some insignificant cracks with minor rust stains and efflorescence.

Bent 2 cap span 2 side under girder 5 has a small spalled area (1' x 2') with no exposed rebar.

Bent 2 columns have some minor efflorescence at connections to struts added at remodeling.

Bent 2 column 5 footing is exposed.

Bent 3 abutment has 4' of honeycomb near right end at construction joint.

Drift buildup bent 2 under bridge due to channel alignment.

Trees & brush in channel.