



Bridge #03858(Routine, Underwater type 2)
SH 9/Stone County over NORTH FORK TOMAHAWK CK

Location: 5.6 M SW SH 66

Team Lead: Nathan Edwards **Inspection Date:** December 14, 2020



Latitude:35.82543, Longitude:-92.17865

Route:9 Section:11 Log:12.717

Arnold Road ID:69x9x11xA, Arnold Log mile:12.698

District 05, Stone County

Owner: 1-State Highway Agency

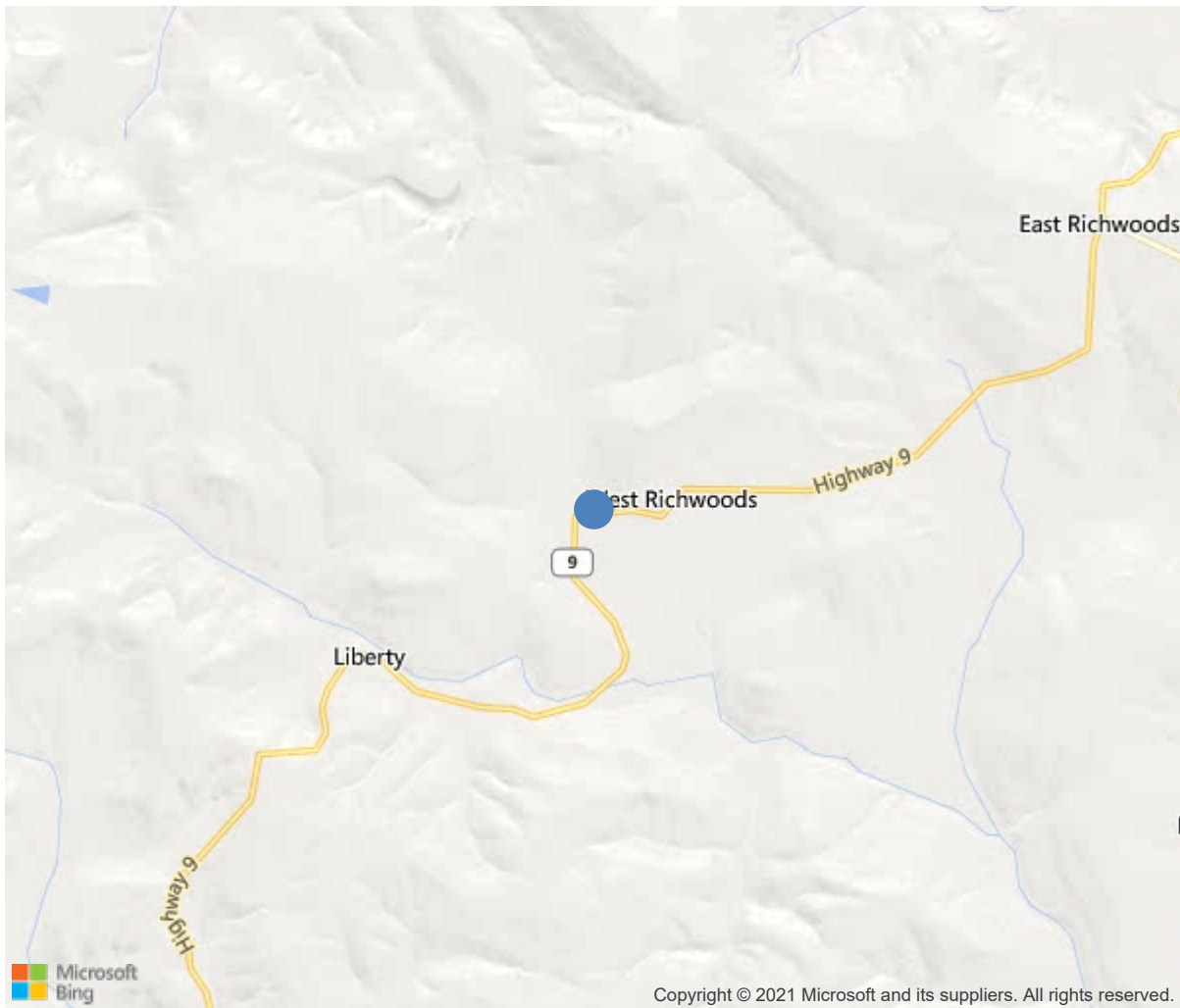


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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03858
(5) Inventory Route	9
(2) Highway Agency District	05
(3) County Code	137-Stone County, Arkansas
(4) Place Code	0
(6) Features Intersected	NORTH FORK TOMAHAWK CK
(7) Facility Carried	SH 9/Stone County
(9) Location	5.6 M SW SH 66
(11) Mile Point	12.717 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.82543
(17) Longitude	-92.17865
(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	1-Monolithic Concrete (concurrently placed
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1966
(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	1100
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	9 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	75 ft
(50) Curb or Sidewalk Width	
Left	1.1 ft
Right	1.1 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	28.5 ft
(32) Approach Roadway Width (W/Shoulders)	22 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	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	1-Navigation protection not requ
(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	6
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	7
(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	47
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	3
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	6
(68) Deck Geometry	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	7
(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	
(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	1458
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			12/2020
(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.			



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	1950	389	1520	41	0
1080	Delamination/Spall/Patched Area	SF	2	0	0	2	0
1090	Exposed Rebar	SF	14	0	0	14	0
1130	Cracking (RC and Other)	SF	45	0	20	25	0
1190	Abrasion/Wear (PSC/RC)	SF	1500	0	1500	0	0
(38)	Minor to moderate abrasion to travel lanes. Span 1 - Minor cracking to deck. Spalls with rebar exposed to soffit @ Left & Right drain openings. Span 2 - Spalls with rebar exposed to soffit @ Left drain opening. Cracks to Right outside edge of deck @ end of span. Span 3 - Spall to Left outside edge of deck @ beg. of span. Cracks to Right outside edge of deck @ beg. of span.						
205	Reinforced Concrete Column	EA	4	4	0	0	0
215	Reinforced Concrete Abutment	LF	65	65	0	0	0
234	Reinforced Concrete Pier Cap	LF	53	37	0	16	0
1080	Delamination/Spall/Patched Area	LF	2	0	0	2	0
1090	Exposed Rebar	LF	5	0	0	5	0
1130	Cracking (RC and Other)	LF	9	0	0	9	0
(234)	Spall with 2.5' of rebar exposed to ahead face of Cap at Bent 1 near Column 1. 9' of horizontal cracks to back face of Cap at Bent 1. 1' spall to top corner of ahead face of Cap on Right side at Bent 1. 40" of rebar exposed to bottom of Cap on Left end at Bent 1.						
301	Pourable Joint Seal	LF	48	0	0	5	43
2320	Seal Adhesion	LF	48	0	0	5	43
(301)	Joint material has lost adhesion and most is missing.						
330	Metal Bridge Railing	LF	150	150	0	0	0
515	Steel Protective Coating	SF	450	450	0	0	0



Roadway with Log Mile running West to East.

Maintenance Needs

Date Reported: 11/30/2010
Priority: D- Routine
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Soffit

Spans 1 thru 3 have cracks and delaminated areas at drain openings.

Spans 1 & 2 have spalls with corroded rebar exposed near Left & Right drain openings.

Remarks



Spalls with rebar exposed to Left drain opening @
Span 2.



Spalls with rebar exposed to Right drain opening
@ Span 1.

Date Reported: 11/30/2010

Priority: D- Routine

Type of Work: N/A

Status: Monitor

Component:

Deficiency Description

Substructure

Bent 1 has spalls with rebar exposed to face and bottom of cap.

Remarks



Spalls with rebar exposed to ahead side of cap @ Bent 1.



Spalls with rebar exposed to bottom of cap @ Bent 1 Left.



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Date Reported: 12/14/2012

Priority: D- Routine

Type of Work: N/A

Status: Monitor

Component:

Deficiency Description

Approach roadway
Settlement at Abutments 1 & 2.

Remarks



Roadway settlement @ Abutment 2.



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Date Reported: 12/08/2016

Priority: D- Routine

Type of Work: N/A

Status: Monitor

Component:

Deficiency Description

Joint material missing at Bents 1 & 2.

Remarks





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Inspection Comments

Elevation with Log Mile running to the Right.