



Bridge #05552(Routine, Underwater type 2)

SH 9/Stone County over WHITE RIVER

Location: 0.1 MI NE JCT SH 5

Team Lead: Nathan Edwards **Inspection Date:** October 27, 2020



Latitude:35.93903, Longitude:-92.11462

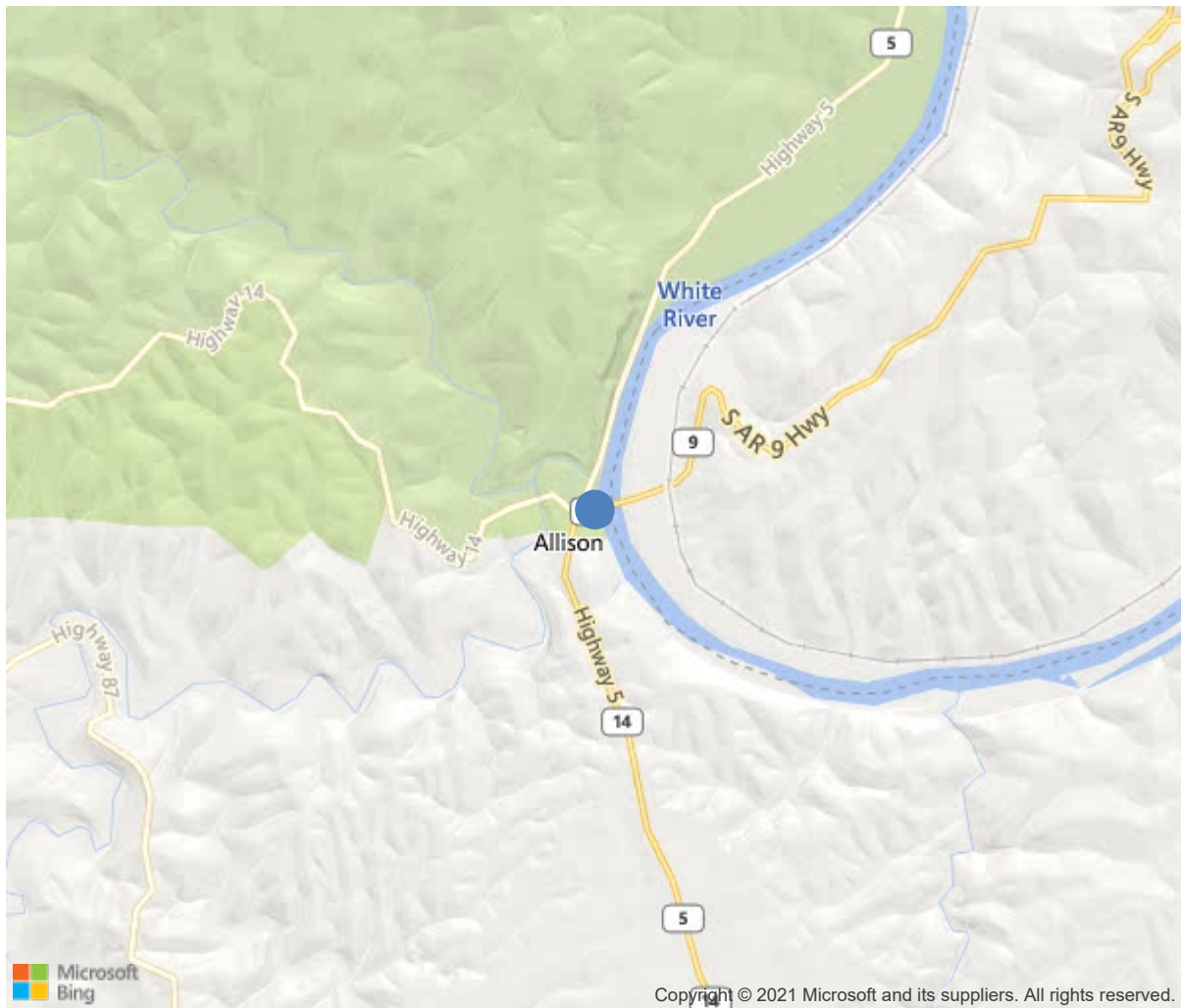
Route:9 Section:11 Log:24.225

Arnold Road ID:69x9x11xA, Arnold Log mile:24.204

District 05, Stone County

Owner: 1-State Highway Agency

0.1 MI NE JCT SH 5



35.93903, -92.11462



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	05552
(5) Inventory Route	9
(2) Highway Agency District	05
(3) County Code	137-Stone County, Arkansas
(4) Place Code	0
(6) Features Intersected	WHITE RIVER
(7) Facility Carried	SH 9/Stone County
(9) Location	0.1 MI NE JCT SH 5
(11) Mile Point	24.225 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000009110
(16) Latitude	35.93903
(17) Longitude	-92.114616
(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	8
(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	1976
(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	760
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	58 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	102 ft
(49) Structure Length	784 ft
(50) Curb or Sidewalk Width	
Left	1.5 ft
Right	1.5 ft
(51) Bridge Roadway Width Curb to Curb	25.9 ft
(52) Deck Width Out to Out	31.5 ft
(32) Approach Roadway Width (W/Shoulders)	40 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	29.2 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	6-Rural 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	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	7
(61) Channel & Channel Protection	7
(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	60
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	8
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	6
(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	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	1153
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	10/2020		
(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
12	Reinforced Concrete Deck	SF	21952	16317	3500	2125	10
1080	Delamination/Spall/Patched Area	SF	1012	0	1000	12	0
1090	Exposed Rebar	SF	3	0	0	3	0
1120	Efflorescence/Rust Staining	SF	1500	0	1500	0	0
1130	Cracking (RC and Other)	SF	3120	0	1000	2110	10
(12)	See attached Form III for detailed locations and descriptions of deficiencies.						
107	Steel Open Girder/Beam	LF	3128	3094	6	28	0
1000	Corrosion	LF	28	0	0	28	0
1020	Connection	LF	2	0	2	0	0
1900	Distortion	LF	4	0	4	0	0
515	Steel Protective Coating	SF	37145	27085	10010	0	50
3440	Effectiveness (Steel Protective Coatings)	SF	50	0	0	0	50
3410	Chalking (Steel Protective Coatings)	SF	10000	0	10000	0	0
3420	Peeling/Bubbling/Cracking	SF	10	0	10	0	0
(107)	See attached Form III for detailed locations and descriptions of deficiencies.						
161	Steel Pin, Pin and Hanger Assembly	EA	4	4	0	0	0
515	Steel Protective Coating	SF	13	0	0	0	13
3440	Effectiveness (Steel Protective Coatings)	SF	13	0	0	0	13
(161)	New pins were installed by HBM crews.						
205	Reinforced Concrete Column	EA	7	7	0	0	0
215	Reinforced Concrete Abutment	LF	87	87	0	0	0
220	Reinforced Concrete Pile Cap/Footing	LF	54	0	54	0	0
6000	Scour	LF	54	0	54	0	0
(220)	Footings exposed at Bents 2 & 3. Scoured 1' below top of footing at Bent 2 and 2' below top of footing at Bent 3.						
234	Reinforced Concrete Pier Cap	LF	250	227	17	6	0
1120	Efflorescence/Rust Staining	LF	6	0	0	6	0

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1130 (234)	Cracking (RC and Other)	LF	17	0	17	0	0
See attached Form III for detailed locations and descriptions of deficiencies.							
301	Pourable Joint Seal	LF	52	37	0	0	15
2310 (301)	Leakage	LF	15	0	0	0	15
Joints have cracked & separated and full of debris.							
302	Compression Joint Seal	LF	66	66	0	0	0
303	Assembly Joint with Seal	LF	26	26	0	0	0
311	Movable Bearing	EA	20	13	1	6	0
1000	Corrosion	EA	5	0	0	5	0
1020	Connection	EA	1	0	0	1	0
2220	Alignment	EA	1	0	1	0	0
515	Steel Protective Coating	SF	120	108	0	0	12
3440 (311)	Effectiveness (Steel Protective Coatings)	SF	12	0	0	0	12
See attached Form III for detailed locations and descriptions of deficiencies.							
313	Fixed Bearing	EA	16	16	0	0	0
515	Steel Protective Coating	SF	96	96	0	0	0
330	Metal Bridge Railing	LF	3136	3136	0	0	0
331	Reinforced Concrete Bridge Railing	LF	1568	1383	31	154	0
1090	Exposed Rebar	LF	1	0	1	0	0
1130 (331)	Cracking (RC and Other)	LF	184	0	30	154	0
Large spall to Right concrete bridge rail @ finger joint.							



Roadway with Log Mile running Southwest to Northeast.

Maintenance Needs

Date Reported: 10/11/2016

Priority: D- Routine

Type of Work: N/A

Status: Monitor

Component:

Deficiency Description

Large spall to Right concrete bridge rail @ finger joint.

Remarks



Large spall to Right concrete bridge rail @ finger joint.

Date Reported: 10/11/2016

Priority: D- Routine

Type of Work: N/A

Status: Monitor

Component:

Deficiency Description

Bottom splice plate is bent 1/4"@ Span 3 Girder 4 & Span 5 Girder 3.

Remarks



Bottom splice plate is bent 1/4"@ Span 3 Girder 4.



Bottom splice plate @ Girder 3



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Date Reported: 10/09/2018

Priority: D- Routine

Type of Work: None

Status: Monitor

Component:

Deficiency Description

Bents 3, 5 & 6 have drift.

Remarks



Bent 3 has Drift.



Drift @ Bents 5 & 6.



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Date Reported: 10/09/2018

Priority: D- Routine

Type of Work: None

Status: Assigned

Component:

Deficiency Description

Span 7 - Deep spall with 1.5' rebar exposed to deck below between Girders 2 & 3.

Remarks



Span 7 between Girders 2 & 3 has Large spall to Soffit.

Date Reported: 10/11/2016

Priority: D- Routine

Type of Work: N/A

Status: Monitor

Component:

Deficiency Description

Loose bolt @ bottom splice plate @ Girder 4 Span 4.
1st diaphragm ahead of Bent 3 has loose bolt @ Girder 3.
Bent 1 Girder 2 - has loose bolt at bearing pad to bottom of Girder.

Remarks



1st diaphragm ahead of Bent 3 has loose bolt @ Girder 3.



Loose bolt @ bottom splice plate @ Girder 4 Span 4.



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Inspection Comments

Elevation with Log Mile running to the Left.
Job Number 5494