



Latitude:35.78489, Longitude:-92.21430

Route:9 Section:11 Log:7.949

Arnold Road ID:69x9x11xA, Arnold Log mile:7.596

District 05, Stone County

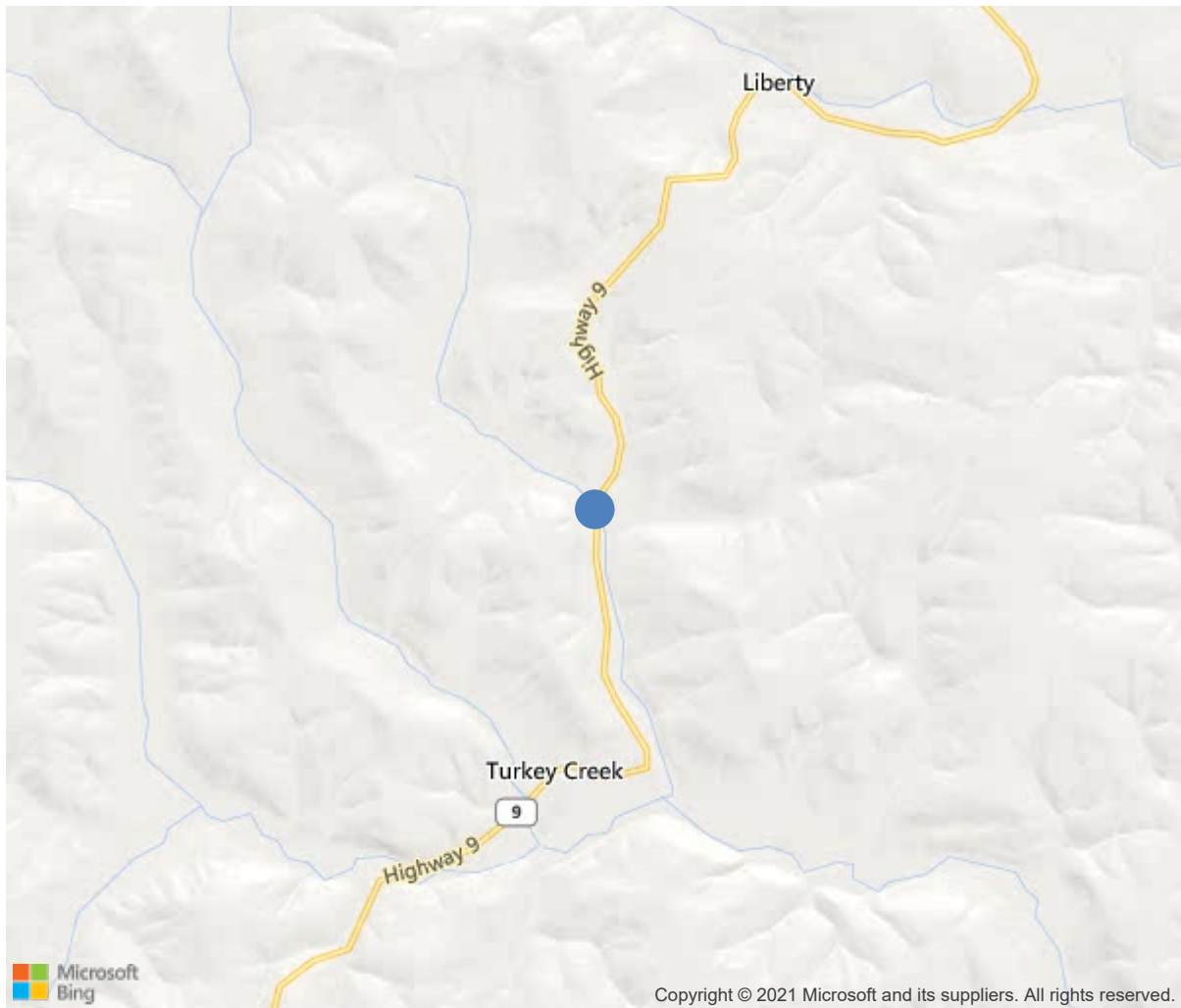
Owner: 1-State Highway Agency



Bridge #03666(Routine)
SH 9/Stone County over BRUSHY CREEK
Location: 7.9 MI NE VANBUREN CO LN

Team Lead: Kerry Little **Inspection Date:** December 14, 2021

7.9 MI NE VANBUREN CO LN



35.78489, -92.21430



Bridge #03666(Routine)
SH 9/Stone County over BRUSHY CREEK
Location: 7.9 MI NE VANBUREN CO LN

Team Lead: Kerry Little Inspection Date: December 14, 2021

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03666
(5) Inventory Route	9
(2) Highway Agency District	05
(3) County Code	137-Stone County, Arkansas
(4) Place Code	0
(6) Features Intersected	BRUSHY CREEK
(7) Facility Carried	SH 9/Stone County
(9) Location	7.9 MI NE VANBUREN CO LN
(11) Mile Point	7.949 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.78489
(17) Longitude	-92.2143
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3-Steel
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	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	1963
(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	1000
(30) Year of ADT	2018
(109) Truck ADT	5 %
(19) Bypass, Detour Length	9 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	40 ft
(49) Structure Length	123 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	45 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	5
(59) Superstructure	4
(60) Substructure	5
(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	48
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	3
Rating	29
(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	1200
(115) Year of Future ADT	2038

INSPECTIONS *			
(90) Inspection Date			12/2021
(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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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	3146	0	2873	273	0
1080	Delamination/Spall/Patched Area	SF	818	0	800	18	0
1090	Exposed Rebar	SF	60	0	5	55	0
1120	Efflorescence/Rust Staining	SF	200	0	0	200	0
1130	Cracking (RC and Other)	SF	334	0	334	0	0
1190	Abrasion/Wear (PSC/RC)	SF	1734	0	1734	0	0
(12)	Entire area of Deck is Patched or has areas of heavy scaling and spalled areas with exposed rebar and cracks. Spalls to soffit, some with rebar exposed with & without section loss @ all spans. Random areas of efflorescence with some map cracking to soffit.						
107	Steel Open Girder/Beam	LF	600	210	330	57	3
1000	Corrosion	LF	390	0	330	57	3
515	Steel Protective Coating	SF	3210	0	2150	1000	60
3440	Effectiveness (Steel Protective Coatings)	SF	3210	0	2150	1000	60
(107)	3' of ends of all Girders have rust with minor section loss. Girders 1 & 5 at drain openings have rust and minor section loss. Girders 1 through 5 have flaking rust throughout at all Spans. Holes in web below haunch @ Girders 2, 4 & 5 @ end of Span 2.						
205	Reinforced Concrete Column	EA	4	0	3	1	0
1120	Efflorescence/Rust Staining	EA	3	0	3	0	0
1130	Cracking (RC and Other)	EA	1	0	0	1	0
(205)	Bent 1 - Minor abrasion to bottom of Column 1. Efflorescent cracking to Column 2 @ Bents 1 & 2. Cracking to Column 1 @ Bent 2.						
215	Reinforced Concrete Abutment	LF	72	54	10	8	0
1130	Cracking (RC and Other)	LF	18	0	10	8	0
(215)	Abutments 1 & 2: Horizontal cracking to top of Abutments.						
234	Reinforced Concrete Pier Cap	LF	92	69	0	23	0
1080	Delamination/Spall/Patched Area	LF	4	0	0	4	0
1120	Efflorescence/Rust Staining	LF	17	0	0	17	0

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1130 (234)	Cracking (RC and Other)	LF	2	0	0	2	0
Bent 1 - 6' horizontal efflorescent cracks to cap. Bent 2 - 4' spall & 6' efflorescent cracks to cap. Cracking to Left end of cap @ Bent 1 & Right end of Bent 2.							
303	Assembly Joint with Seal	LF	136	136	0	0	0
311	Movable Bearing	EA	15	0	0	15	0
1000	Corrosion	EA	15	0	0	15	0
515	Steel Protective Coating	SF	30	0	0	0	30
3440	Effectiveness (Steel Protective Coatings)	SF	30	0	0	0	30
(311) Paint has failed and all Bearings have heavy rust and pack rust with moderate section loss.							
313	Fixed Bearing	EA	15	0	9	6	0
1000	Corrosion	EA	15	0	9	6	0
515	Steel Protective Coating	SF	30	0	0	0	30
3440	Effectiveness (Steel Protective Coatings)	SF	30	0	0	0	30
(313) Paint has failed and all Bearings all have heavy rust with moderate section loss.							
330	Metal Bridge Railing	LF	246	176	70	0	0
1000	Corrosion	LF	70	0	70	0	0
515	Steel Protective Coating	SF	738	0	563	175	0
3440	Effectiveness (Steel Protective Coatings)	SF	738	0	563	175	0
(330) Light rust to Bridge rails.							



Roadway with log mile looking north.



Overall deck.



Overall soffit @ span 2.



Overall soffit @ span 3.



Typical patched areas throughout deck.



Typical cracks to deck @ all spans.



Typical spalls with rebar exposed to to deck @ all spans.



Hole to web @ girder 5, end of span 2.



Large crack to ahead side of column 2 @ bent 1.



Large crack to ahead side of column 2 @ bent 1.



Typical efflor cracks to soffit @ all spans.



Efflor crack to backside of column 2 @ bent 2.



Typical efflor to caps @ bents 1 & 2.
Backside of bent 2.



Typical efflor to caps @ bents 1 & 2.
Backside of bent 2.



Typical efflor to caps @ bents 1 & 2.
Backside of bent 1.



Typical efflor to caps @ bents 1 & 2.
Backside of bent 1.



Rust and section loss to girder 5 at Spans 1 & 2.
Hole to web, below paving haunch @ girder 5, end of span 2.

Maintenance Needs

Date Reported: 12/09/2011
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Component:

Deficiency Description

Deep spalls with rebar exposed to deck below at All Spans.

Remarks



Spalls between Girders 3 & 4 at Span 3.



Deep spalls with rebar exposed to deck below at
All Spans.
Span 2.



Deep spalls with rebar exposed to deck below at
All Spans.
Span 3, between girders 2 & 3.

Date Reported: 12/09/2011

Priority: D- Routine

Type of Work: Repair

Status: Monitor

Component:

Deficiency Description

Rust to all girders at Spans 1 through 3.
Rust and section loss to girder 5 at Spans 1 & 2.
Rust and section loss to girder 3 at Span 3

Remarks



Span 1 Girder 1 at drain.



2' of end of all Girders have rust with some minor section loss.



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Rust to all girders at Spans 1 through 3.

Date Reported: 12/17/2019
Priority: B - Pressing; 6 month completion goal
Type of Work: N/A
Status: Open
Component:

Deficiency Description

Holes in web below haunch @ Girders 2, 4 & 5 @ end of Span 2.

Remarks



Hole in web below haunch @ Girder 4 @ end of Span 2.



Hole in web below haunch @ Girder 2 @ end of Span 2.



Rust and section loss to girder 5 at Spans 1 & 2.
Hole to web, below paving haunch @ girder 5, end
of span 2.



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Inspection Comments

Log Mile running North.