



Bridge #M0286(Routine)
SH 9/Fulton County over Little Strawberry Creek
Location: 0.4 MI N OF Wheeling, AR
Team Lead: Kerry Little **Inspection Date:** December 07, 2021



Latitude:36.32419, Longitude:-91.85771

Route:9 Section:14 Log:6.289

Arnold Road ID:25x9x14xA, Arnold Log mile:6.194

District 05, Fulton County

Owner: 1-State Highway Agency



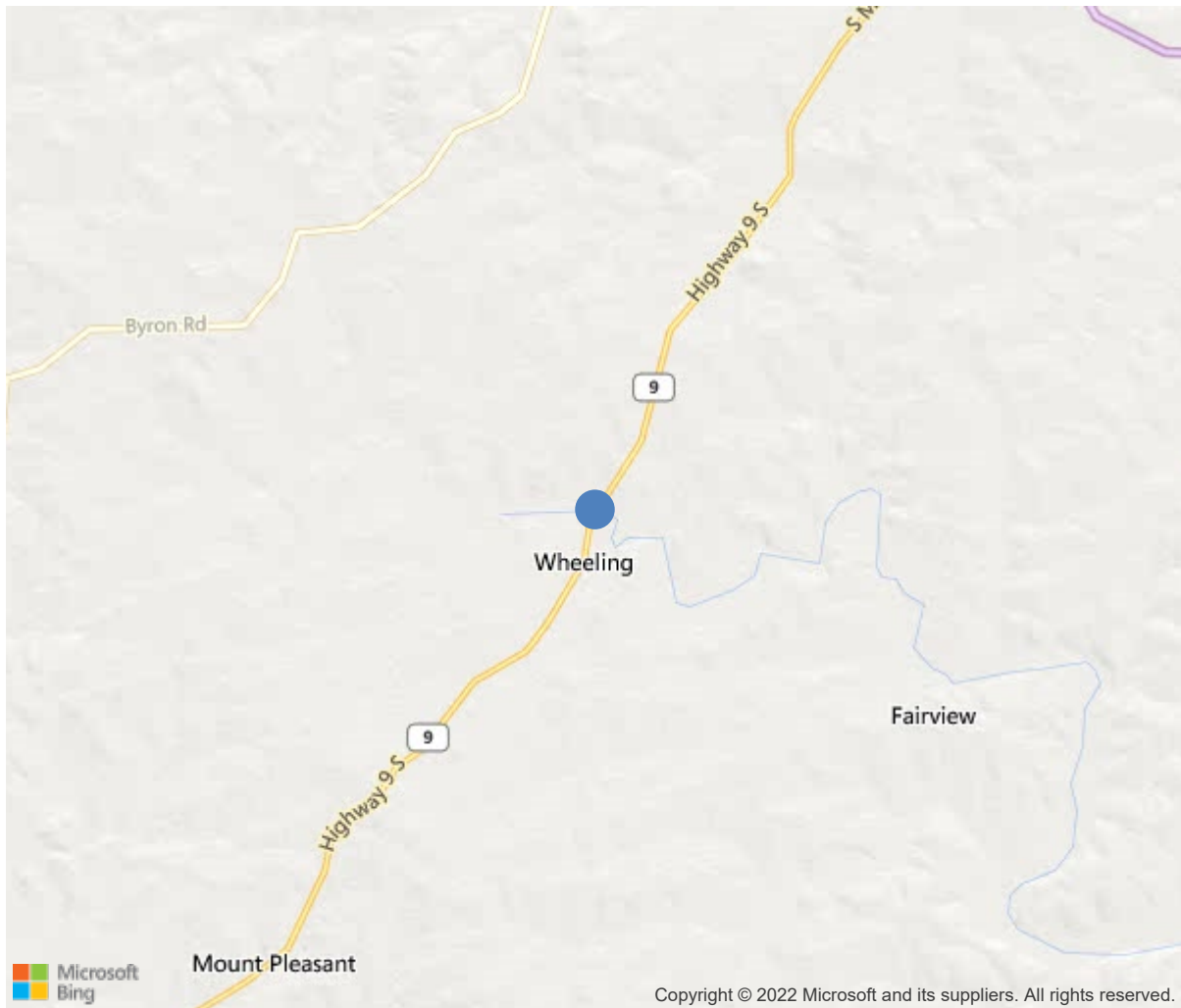
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36.32419, -91.85771

Inspection Direction : S to N



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	M0286
(5) Inventory Route	9
(2) Highway Agency District	05
(3) County Code	49-Fulton County, Arkansas
(4) Place Code	0
(6) Features Intersected	Little Strawberry Creek
(7) Facility Carried	SH 9/Fulton County
(9) Location	0.4 MI N OF Wheeling, AR
(11) Mile Point	6.289 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000009140
(16) Latitude	36.324188
(17) Longitude	-91.857712
(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	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	1926
(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	1200
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	10 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	33 ft
(49) Structure Length	65 ft
(50) Curb or Sidewalk Width	
Left	0.8 ft
Right	0.8 ft
(51) Bridge Roadway Width Curb to Curb	24.3 ft
(52) Deck Width Out to Out	26.2 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	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	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	5
(59) Superstructure	3
(60) Substructure	6
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	0-Other or Unknown
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	12
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	2
Rating	7
(70) Bridge Posting	0-> 39.9% below
(41) Structure Open/Posted/Closed	P-Posted for load (may include o
APPRAISAL	
(67) Structural Evaluation	4
(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	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	1362
(115) Year of Future ADT	2028

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	1703	1377	130	195	1
1080	Delamination/Spall/Patched Area	SF	131	0	30	100	1
1090	Exposed Rebar	SF	25	0	0	25	0
1120	Efflorescence/Rust Staining	SF	170	0	100	70	0
510	Wearing Surfaces	SF	1573	1499	0	73	1
3220	Crack (Wearing Surface)	SF	73	0	0	73	0
3210	Delam/Spall/Patched Area/Pothole	SF	1	0	0	0	1
(12)							
Several spalls with exposed rebar and areas of efflorescent cracking to Soffit at Spans 1 & 2. Efflorescent cracking to Left & Right edges of deck. Hole in edge of roadway on Rt. side @ Abut. 2.							
107	Steel Open Girder/Beam	LF	780	417	133	185	45
1000	Corrosion	LF	328	0	100	185	43
1900	Distortion	LF	35	0	33	0	2
515	Steel Protective Coating	SF	2980	2680	0	100	200
3440	Effectiveness (Steel Protective Coatings)	SF	300	0	0	100	200
(107)							
Span 1 - Girder 1 is bent and distorted. Girder 1 has rust with heavy section loss to web & bottom flange (holes / knife edged) at beginning & end of span with hole in bottom of web @ 3/4 point. Girders 1, 2, 3, 10 & 11 have rust pack rust & severe section loss. Girder 3 @ end of Span 1 has severe section loss & hole in top of web. Girder 10 at end of span has severe section loss to web with holes at end of girder. Girder 12 has rust with section loss to top of web (holes / knife edged) @ end of span.							
Span 2 - Girders 1, 2, 3, 9 & 11 have rust pack rust & section loss. Girder 2 at beg. of span has severe section loss to bottom of web & bottom flange with large hole in bottom of web and is beginning to crush & hole in top of web 1' & 2' ahead of Bent 1. Girder 3 has 4 holes in web @ 1/4 point & is knife edged. Girder 10 has hole in top of web @ beginning of Span. Girder 12 @ end of span has section loss with hole in bottom flange. Girder 12 has rust with section loss to top of web (holes / knife edged) @ beginning of span.							
210	Reinforced Concrete Pier Wall	LF	29	0	24	5	0
1120	Efflorescence/Rust Staining	LF	4	0	4	0	0
1190	Abrasion/Wear (PSC/RC)	LF	25	0	20	5	0
(210)							
Moderate to heavy abrasion along bottom of Pier on back and ahead sides with area of deep scaling near centerline on back side. Efflorescent cracking to Concrete Pier Wall.							

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	96	83	0	13	0
1080	Delamination/Spall/Patched Area	LF	6	0	0	6	0
1090	Exposed Rebar	LF	1	0	0	1	0
1130	Cracking (RC and Other)	LF	6	0	0	6	0
(215)							
3 FH vertical cracks 1/16" - 3/16" wide to Abutment 1. Large spall to backwall between Girders 6 & 7 @ Abutment 1. 3 FH vertical cracks 1/4" wide to Abutment 2. Honeycombed area with 8" of rebar exposed at bottom of Abutment 2 near centerline. Abutment 2 has 4' deep spall to back wall between Girders 5-6. Abutment 2 has 6' spall to backwall between Girders 4 & 7.							
220	Reinforced Concrete Pile Cap/Footing	LF	26	0	26	0	0
6000	Scour	LF	26	0	26	0	0
(220)							
Footing exposed at Bent 1.							
234	Reinforced Concrete Pier Cap	LF	28	26	2	0	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
(234)							
Minor Spalls under Girders 4 & 9 on ahead side.							
304	Open Expansion Joint	LF	26	2	0	24	0
2350	Debris Impaction	LF	24	0	0	24	0
(304)							
Not visible due to asphalt overlay.							
330	Metal Bridge Railing	LF	130	130	0	0	0
515	Steel Protective Coating	SF	390	390	0	0	0
(330)							
Left curb deteriorated and spalled. Right curb has minor cracking & deterioration.							



Roadway with log mile looking north.



Deck photo with Log Mile.



Soffit photo.



Load posting sign @ abutment 1.



Load posting sign @ abutment 2.



Full height vertical cracks to Abutment 2.



Hole to rt edge of roadway @ abutment 2, next to curb.

Maintenance Needs

Date Reported: 11/29/2011
Priority: B - Pressing; 6 month completion goal
Type of Work: Repair
Status: Assigned
Inspection Direction S to N
Component:

Deficiency Description

Rust, corrosion & section loss to Girders 1 thru 3 & 9 thru 12 at Spans 1 & 2.
Rust with heavy section loss to web & bottom flange (holes / knife edged) of Girder 1 Span 1
Girder 2 at Beginning of Span 2 has severe section loss to bottom of web and bottom flange with large hole in bottom of web and is beginning to crush.
Girder 10 at End of Span 1 has severe section loss to end of web with holes at end of Girder.
Rust with section loss to top of web (holes / knife edged) of Girder 12 at end of Span 1 & beginning of Span 2.
Girder 3 has holes in top of web near 1/4 point & midspan @ Span 2.
Girder 12 @ end of Span 2 has section loss with hole in bottom flange.

Remarks



Girder 2 at Beginning of Span 2 has severe section loss to bottom of web and bottom flange with large hole in bottom of web and is beginning to crush.



Girder 3 has hole in top of web near 1/4 point @ Span 2.



Distortion to Girder 1 @ Span 1.



Rust & section loss to Girders 1 - 3 @ Span 1.



Girder 10 at End of Span 1 has severe section loss to end of web with hole at end of Girder.



Girder 3 has hole in top of web near midspan @ Span 2.



Girder 2 at Beginning of Span 2 has severe section loss to bottom of web and bottom flange with large hole in bottom of web and is beginning to crush.



Rust & section loss to Girders 1 - 3 @ Span 2.



Rust with heavy section loss to web & bottom flange (holes / knife edged) of Girder 1 Span 1



Rust with heavy section loss to web & bottom flange (holes / knife edged) of Girder 1 Span 1.
(Bottom Flange)



Rust with heavy section loss to web & bottom flange (holes / knife edged) of Girder 1 Span 1.



Girder 2 at Beginning of Span 2 has severe section loss to bottom of web and bottom flange with large hole in bottom of web and is beginning to crush.



Rust with section loss to top of web (holes / knife edged) of Girder 12 at end of Span 1 & beginning of Span 2. Span 2



Girder 3 has holes in top of web near 1/4 point & midspan @ Span 2

Date Reported: 11/29/2011
Priority: C - Important
Type of Work: Repair
Status: Assigned
Inspection Direction S to N
Component:

Deficiency Description

Bent 1 - Spall to cap.
Abut. 2 - Large spall to backwall between Girders 5-7.

Remarks



Bent 1 Cap - Spalls under girders.



Spalls to Cap on ahead side of Bent 1.



Abutment 2 - 4' spall at backwall between Girders 5
- 7.





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Date Reported: 11/29/2011
Priority: D- Routine
Type of Work: Repair
Status: Assigned
Inspection Direction S to N
Component:

Deficiency Description

Scour to Bent 1 footing exposed.
Channel has realigned to Span 1.

Remarks



Channel has realigned to Abutment 1.



Scoured 1' below top of footing @ Bent 1.



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Date Reported: 12/07/2021
Priority: B - Pressing; 6 month completion goal
Type of Work: Repair
Status: Open
Inspection Direction S to N
Component: Deck

Deficiency Description

Hole to Rt. edge of roadway @ Abutment 2, next to curb.

Remarks



Hole to rt edge of roadway @ abutment 2, next to curb.



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Inspection Comments

Elevation with Log Mile running to the Left