



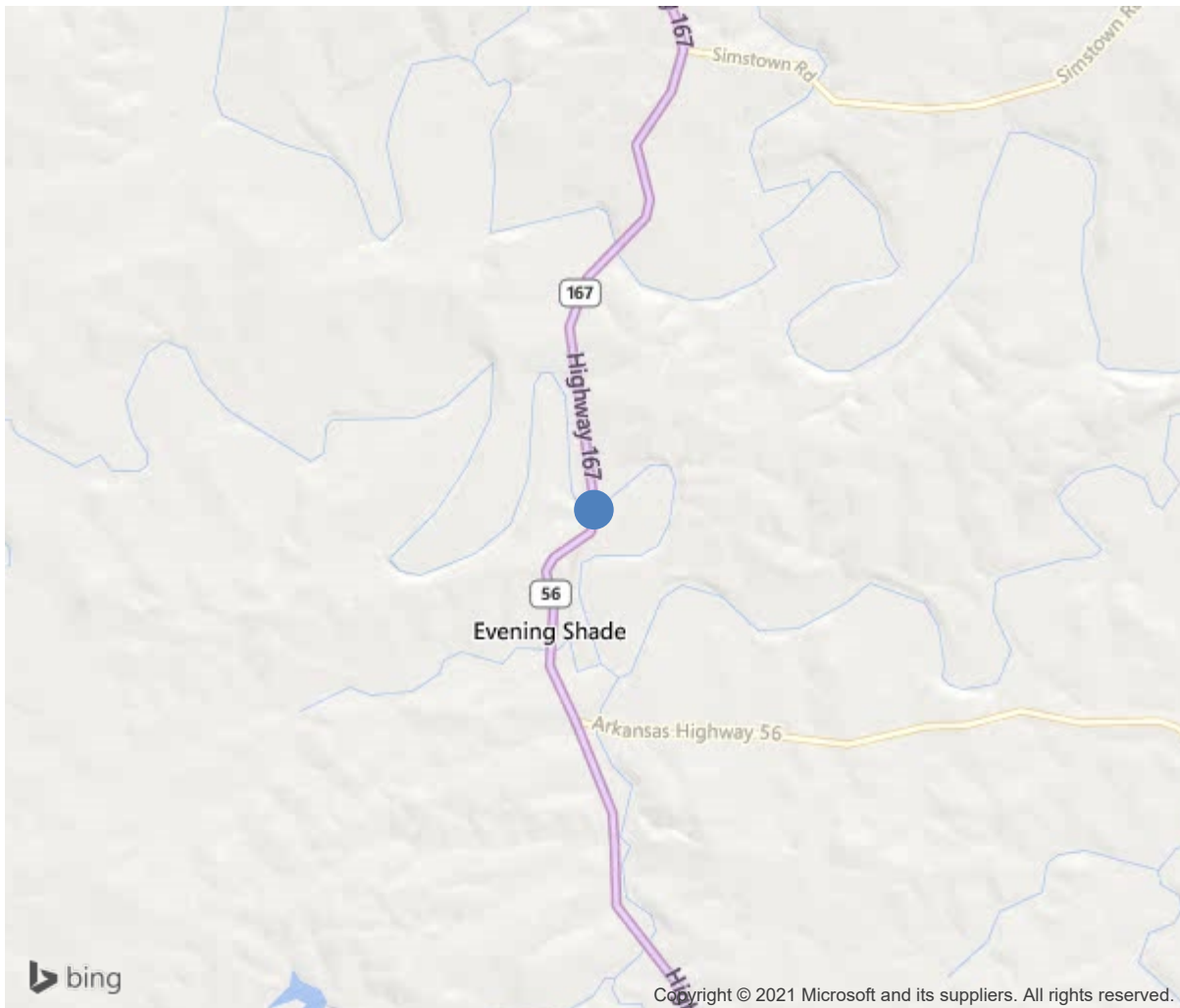
Bridge #A0798(Routine)

US 167 Sharp Co. over PINEY FORK

Location: 11.31 MI N INDEPENDENCE

Team Lead: Nathan Edwards **Inspection Date:** June 18, 2021

11.31 MI N INDEPENDENCE



36.08053, -91.61076



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	A0798
(5) Inventory Route	167
(2) Highway Agency District	05
(3) County Code	135-Sharp County, Arkansas
(4) Place Code	0
(6) Features Intersected	PINEY FORK
(7) Facility Carried	US 167 Sharp Co.
(9) Location	11.31 MI N INDEPENDENCE
(11) Mile Point	11.308 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000167190
(16) Latitude	36.08053
(17) Longitude	-91.61076
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	111
Material	1-Concrete
Type	11-Arch - Deck
(44) Approach Structure Type	14
Material	1-Concrete
Type	4-Tee beam
(45) No. of Spans in Main Unit	1
(46) No. of Approach Spans	3
(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	1928
(106) Year Reconstructed	1955
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	3400
(30) Year of ADT	2018
(109) Truck ADT	13 %
(19) Bypass, Detour Length	15 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	101 ft
(49) Structure Length	202 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	29.5 ft
(32) Approach Roadway Width (W/Shoulders)	32.2 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	28.9 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	1
(26) Functional Class	2-Rural Principal Arterial - Oth
(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	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	1-Bridge is on the National Register
CONDITION	
(58) Deck	6
(59) Superstructure	6
(60) Substructure	5
(61) Channel & Channel Protection	7
(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	47
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	1
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	5
(68) Deck Geometry	3
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	7
(36) Traffic Safety Features	0000
A) Bridge Railings	0-Inspected feature does not meet cur
B) Transitions	0-Inspected feature does not meet cur
C) Approach Guardrail	0-Inspected feature does not meet cur
D) 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	235 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 235
(96) Total Project Cost	\$ 781
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	3711
(115) Year of Future ADT	2028
INSPECTIONS	
(90) Inspection Date	
(91) Frequency	24 Months
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	No 24
B: Underwater Inspection	Yes 0 201806
C: Other Special Inspection	No 0



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	5960	5025	320	615	0
1080	Delamination/Spall/Patched Area	SF	91	0	55	36	0
1090	Exposed Rebar	SF	18	0	0	18	0
1120	Efflorescence/Rust Staining	SF	525	0	100	425	0
510	Wearing Surfaces	SF	5252	5216	0	36	0
3210	Delam/Spall/Patched Area/Pothole	SF	6	0	0	6	0
3220	Crack (Wearing Surface)	SF	30	0	0	30	0
(16)	Several transverse cracks to soffit; most with light rust stains and/or heavy efflorescence.						
110	Reinforced Concrete Open Girder/Beam	LF	680	455	110	115	0
1080	Delamination/Spall/Patched Area	LF	8	0	8	0	0
1120	Efflorescence/Rust Staining	LF	82	0	42	40	0
1130	Cracking (RC and Other)	LF	55	0	35	20	0
(110)	1/16" - 3/16" vertical cracks in tee girders above Spandrel Columns at Span 2.						
144	Reinforced Concrete Arch	LF	303	65	215	23	0
1080	Delamination/Spall/Patched Area	LF	2	0	0	2	0
1090	Exposed Rebar	LF	1	0	0	1	0
1120	Efflorescence/Rust Staining	LF	89	0	85	4	0
1130	Cracking (RC and Other)	LF	146	0	130	16	0
(144)	Spandrel Columns 1 - 3 have FH vertical cracks 1/16" - 1/4" wide at beginning of span. Minor crack in top of Arch rib 1, back of Spandrel Column 2. 12' longitudinal cracking along bottom of Arch rib 3 @ Span 2 mid span. Efflorescent map cracking, delaminated areas & spall with 1' rebar exposed to Arch rib 3.						
205	Reinforced Concrete Column	EA	9	0	7	2	0
1090	Exposed Rebar	EA	1	0	0	1	0
1130	Cracking (RC and Other)	EA	8	0	7	1	0
(205)	Columns 1, 2 & 3 have horizontal cracks @ Approach Span 1. Bent 3 Right column has FH vertical crack.						
210	Reinforced Concrete Pier Wall	LF	18	18	0	0	0

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	100	83	3	14	0
1090	Exposed Rebar	LF	2	0	0	2	0
1120	Efflorescence/Rust Staining	LF	8	0	0	8	0
1130	Cracking (RC and Other)	LF	7	0	3	4	0
(215)	Right side of Abutment 2 has spalls with 2' of rebar exposed. 4 full height vertical cracks to Abutment 1 & Left wing has 3/16" wide diagonal crack. Map cracking with moderate efflorescence between Girders 3 & 4 & to Right end of Abutment 1.						
234	Reinforced Concrete Pier Cap	LF	59	38	4	17	0
1090	Exposed Rebar	LF	2	0	0	2	0
1130	Cracking (RC and Other)	LF	19	0	4	15	0
(234)	Bent 1 has minor vertical cracking. Horizontal crack and delaminated area on ahead side of Bent 3. Horizontal cracking to bottom of cap @ Bent 3. Spall with rebar exposed to bottom of cap @ Bent 3 Right.						
330	Metal Bridge Railing	LF	404	144	260	0	0
1000	Corrosion	LF	130	0	130	0	0
515	Steel Protective Coating	SF	1212	0	404	404	404
3440	Effectiveness (Steel Protective Coatings)	SF	606	0	202	202	202
(330)	Rust to metal rail.						



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Maintenance Needs

Date Reported: 06/20/2011
Priority: C - Important
Type of Work: N/A
Status: Assigned
Component:

Deficiency Description

Numerous efflorescent cracks to Span 1 Girder 4, Span 2 Girder 3.

1/16" - 3/16" vertical cracks in tee girders above spandrel columns at Span 2.

Remarks



Efflor. map cracking to Tee Girder #3 at Span #2



Efflor. map cracking to Girder #4 at Span #1



Vertical cracks to Tee Girders above spandrel
columns at Span #2



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Date Reported: 06/20/2011
Priority: C - Important
Type of Work: N/A
Status: Assigned
Component:

Deficiency Description

Full height cracks 1/16" - 1/4" wide to spandrel columns @ Bents 1 and 2.

Remarks



Vertical cracks to Spandrel Column #2 at Span #2

Date Reported: 06/20/2011
Priority: C - Important
Type of Work: N/A
Status: Assigned
Component:

Deficiency Description

Efflorescent map cracking, some with rust stains to soffit at Spans 1 - 4

Remarks



Typipcal efflor. cracks some with rust to soffit at
Span #2



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Date Reported: 06/20/2011

Priority: D- Routine

Type of Work: N/A

Status: Monitor

Component:

Deficiency Description

Full height vertical cracks to Column 3 at Bent 3.

Remarks



FH Vertical cracks to Column #3 at Bent #3



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Date Reported: 06/09/2015
Priority: D- Routine
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Spall with 10' rebar exposed to concrete diaphragm at end of Span 1.

Remarks



Spall with 10' rebar exposed to concrete diaphragm
@ end of Span #1



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Inspection Comments

Log Mile running North..Job 5417