Bridge #02692(Routine)
US 167 SHARP CO. over MILL CREEK
Location: 1.2 MI S JCT SH 56 E
Team Lead: Kerry Little **Inspection Date:** January 15, 2020

Latitude:36.04977, Longitude:-91.60612

Route:167 Section:19 Log:8.938

Arnold Road ID:67x167x19xA, Arnold Log mile:8.946

District 05, Sharp County

Owner: 1-State Highway Agency

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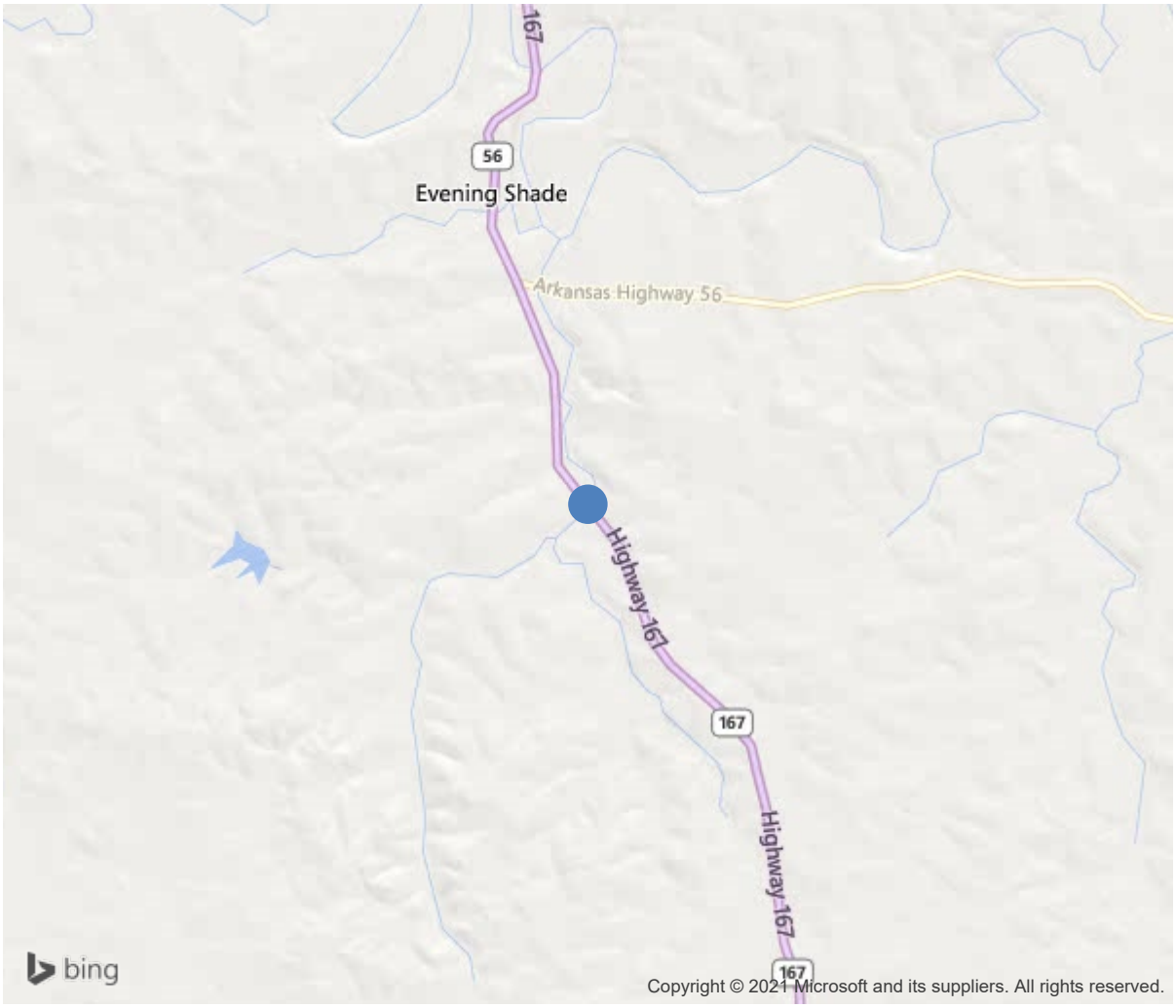
1.2 MI S JCT SH 56 E



36.04977, -91.60612

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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	02692
(5) Inventory Route	167
(2) Highway Agency District	05
(3) County Code	135-Sharp County, Arkansas
(4) Place Code	0
(6) Features Intersected	MILL CREEK
(7) Facility Carried	US 167 SHARP CO.
(9) Location	1.2 MI S JCT SH 56 E
(11) Mile Point	8.938 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000167190
(16) Latitude	36.04977
(17) Longitude	-91.60612
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	21
Material	2-Concrete continuous
Type	1-Slab
(44) Approach Structure Type	00
Material	0-Other
Type	0-Other
(45) No. of Spans in Main Unit	6
(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	1950
(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	3400
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	10 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	23 ft
(49) Structure Length	120 ft
(50) Curb or Sidewalk Width	
Left	1.4 ft
Right	1.4 ft
(51) Bridge Roadway Width Curb to Curb	25.9 ft
(52) Deck Width Out to Out	29.6 ft
(32) Approach Roadway Width (W/Shoulders)	24 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	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	5-Bridge is not eligible for the NRHP
CONDITION	
(58) Deck	6
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	6
(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	34
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	6
Rating	21
(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	148 ft
(94) Bridge Improvement Cost	$ 0
(95) Roadway Improvement Cost	$ 235
(96) Total Project Cost	$ 604
(97) Year of Improvement Cost Estimate	2002
(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	No	0	
C: Other Special Inspection	No	0	

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	3372	1403	385	1584	0
1080	Delamination/Spall/Patched Area	SF	32	0	5	27	0
1090	Exposed Rebar	SF	15	0	0	15	0
1120	Efflorescence/Rust Staining	SF	1722	0	180	1542	0
1130	Cracking (RC and Other)	SF	200	0	200	0	0
510	Wearing Surfaces	SF	3120	3058	60	2	0
3210	Delam/Spall/Patched Area/Pothole	SF	62	0	60	2	0

(12)

Heavy longitudinal & transverse efflorescent cracks to soffit @ all spans.
Span 4 - Spalls with 10' rebar exposed to soffit.
Span 5 - Spalls with 5' rebar exposed to soffit.
Delaminated area to soffit near centerline @ Span 1.
Random hairline cracking to soffit.
Heavy decoration to Lt and Rt curbs @ all spans.

(12-1080)

(12-510)

Cracking to wearing surface @ Abut. 1 & 2 joint and an area of cracking @ Span 4.
Spall to wearing surface near Bent 5.

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
210	Reinforced Concrete Pier Wall	LF	143	118	18	7	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
1090	Exposed Rebar	LF	7	0	0	7	0
1120	Efflorescence/Rust Staining	LF	9	0	9	0	0
1130	Cracking (RC and Other)	LF	7	0	7	0	0

(210)

Scour @ Bents 2 & 3.
Minor full height vertical cracks near centerline to all Pier Walls.
Bent 2 - Spalls with Rebar on Left & spall with 4' rebar exposed on Right.
Bent 3 - Spalls with 1' Rebar exposed on Right.
Bent 5 - Spalls with 3' wire mesh & 2' Rebar Exposed.
Delaminated area to concrete Pier Wall @ Bent 5.

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
220	Reinforced Concrete Pile Cap/Footing	LF	30	0	30	0	0
6000	Scour	LF	30	0	30	0	0

(220)

Footing exposed full length of Bent 2. Scour up to 1' below top of Footing.

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
234	Reinforced Concrete Pier Cap	LF	203	167	0	36	0
1080	Delamination/Spall/Patched Area	LF	10	0	0	10	0
1090	Exposed Rebar	LF	1	0	0	1	0
1120	Efflorescence/Rust Staining	LF	15	0	0	15	0
1130	Cracking (RC and Other)	LF	10	0	0	10	0
(234)							
Efflorescent map cracking, deterioration & spalls to ends of all Caps. Area of deterioration to top Right end of Caps @ Abutments 1 & 2. Severe map cracking with rebar exposed to Right end of cap @ Bent 5. Efflorescent map cracking to cap @ Bent 3. Bent 1 has a large crack to Rt end.							
330	Metal Bridge Railing	LF	240	0	240	0	0
1000	Corrosion	LF	240	0	240	0	0
515	Steel Protective Coating	SF	720	0	0	220	500
3440	Effectiveness (Steel Protective Coatings)	SF	720	0	0	220	500
(330)							
Metal rail rusting. Span 1 - Post 1 on Right, Post 3 on Left has spalls with Rebar Exposed. Span 2 - Post 1 & 3 on Left has spalls with Rebar Exposed. All Concrete Curbs on Left & Right have heavy deteriorating & spalled with rebar exposed.							

Logmile looking North.

Typical efflor cracksnto soffit @ all spans.

Overall soffit @ span 2.

Overall soffit @ span 4.

Minor settlement to abutment 2.

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Maintenance Needs

Date Reported: 01/09/2012
Priority: D- Routine
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Heavy deterioration with Rebar Exposed to Left & Right curbs @ all Spans.

Remarks

Heavy deterioration with Rebar Exposed to Left & Right curbs @ all Spans.

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Date Reported: 01/09/2012
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Component: Substructure

Deficiency Description

Spalls/delaminating with efflorescence, Rebar & wire mesh exposed to Pier walls @ Bent 2 & 3.

Remarks

Spalls/delaminating with efflorescence, Rebar & wire mesh exposed to Pier walls @ Bent 3.

Spalls/delaminating with efflorescence, Rebar & wire mesh exposed to Pier walls @ Bent 2.

Spalls/delaminating with efflorescence, Rebar & wire mesh exposed to Pier walls @ Bent 2 & 3.

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Date Reported: 01/10/2014
Priority: D- Routine
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Scour up to 1' below top of Footing @ Bent 2.

Remarks

Scour up to 1' below top of footing @ Bent 2.

Scour up to 1' below top of Footing @ Bent 2.

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Date Reported: 01/10/2014
Priority: C - Important
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Spalls with Rebar Exposed to Deck below @ Spans 4 & 5.

Remarks

Spalls with Rebar Exposed to Deck below @ Spans 4 & 5.

Spalls with Rebar Exposed to Deck below @ Spans 4 & 5.

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Date Reported: 01/10/2014
Priority: C - Important
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Deterioration & efflorescent map cracking to Left & Right ends of Cap @ Bents 1 - 5.

Remarks

Deterioration & efflorescent map cracking to Left & Right ends of Cap @ Bents 1 - 5.

Deterioration & efflorescent map cracking to Left & Right ends of Cap @ Bents 1 - 5.

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Date Reported: 01/15/2020
Priority: C - Important
Type of Work: Repair
Status: Open
Component: Bridge

Deficiency Description

Drift buildup @ span 2 & 3.

Remarks

Drift buildup @ spans 2 & 3.

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Inspection Comments

Construction Job 5347.
Log Mile looking North.

Load Rating

CHANGED CODE 5 RATING FROM 37 TO 40 PER OFFICE POLICY. DLV 3/28/2019