



Latitude:34.76331, Longitude:-93.07516

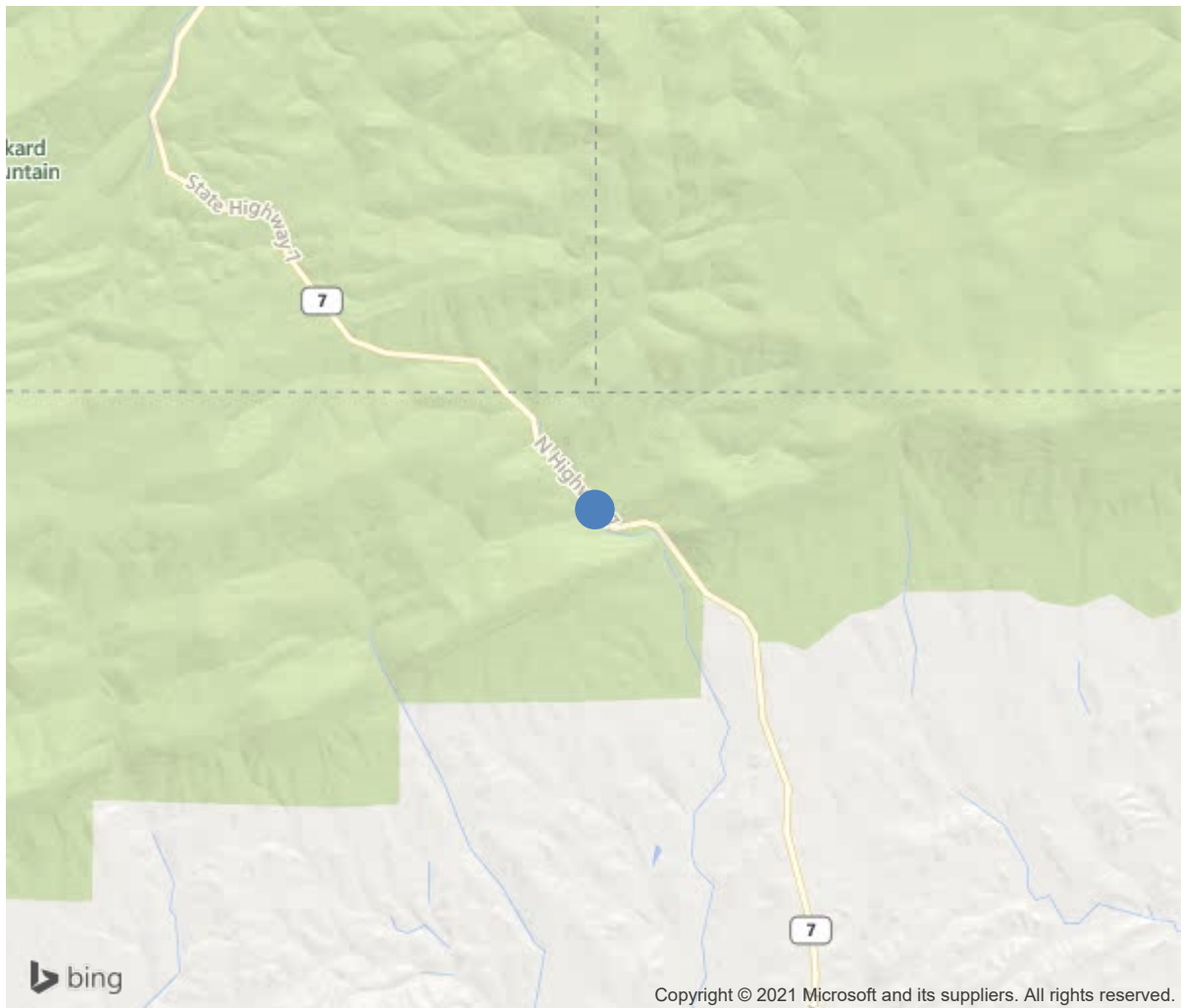
Route:7 Section:10 Log:16.7

Arnold Road ID:26x7x10xA, Arnold Log mile:16.698

District 06, Garland County

Owner: 1-State Highway Agency

.79 MI SE OF PERRY CO LIN



34.76331, -93.07516



Bridge #01782(Routine)
SH 7-10 Log 16.70 over MIDDLE FORK SALINE RIVER

Location: .79 MI SE OF PERRY CO LIN

Team Lead: Shane Byrd Inspection Date: October 21, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	01782
(5) Inventory Route	7
(2) Highway Agency District	06
(3) County Code	51-Garland County, Arkansas
(4) Place Code	0
(6) Features Intersected	MIDDLE FORK SALINE RIVER
(7) Facility Carried	SH 7-10 Log 16.70
(9) Location	.79 MI SE OF PERRY CO LIN
(11) Mile Point	16.7 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000007100
(16) Latitude	34.76331
(17) Longitude	-93.07516
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	24
Material	2-Concrete continuous
Type	4-Tee beam
(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	6-Bituminous
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1933
(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	990
(30) Year of ADT	2018
(109) Truck ADT	10 %
(19) Bypass, Detour Length	22 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	54 ft
(49) Structure Length	131 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.8 ft
(51) Bridge Roadway Width Curb to Curb	20 ft
(52) Deck Width Out to Out	23.3 ft
(32) Approach Roadway Width (W/Shoulders)	24 ft
(33) Bridge Median	0-No median
(34) Skew	50 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	21 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	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	5
(60) Substructure	6
(61) Channel & Channel Protection	6
(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	40
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	3
Rating	24
(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	2
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(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	160 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 235
(96) Total Project Cost	\$ 623
(97) Year of Improvement Cost Estimate	2004
(114) Future ADT	1200
(115) Year of Future ADT	2038
INSPECTIONS	
(90) Inspection Date	
(91) Frequency	24 Months
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	Yes 0
B: Underwater Inspection	Yes 0
C: Other Special Inspection	No 0



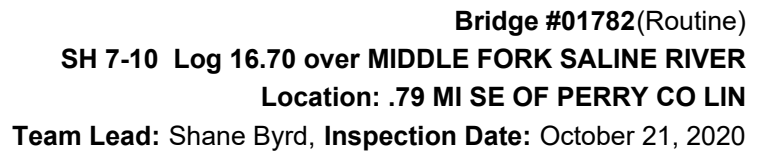
Bridge #01782(Routine)
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Location: .79 MI SE OF PERRY CO LIN
Team Lead: Shane Byrd, Inspection Date: October 21, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	3052	2779	153	120	0
1080	Delamination/Spall/Patched Area	SF	62	0	62	0	0
1090	Exposed Rebar	SF	44	0	0	44	0
1120	Efflorescence/Rust Staining	SF	101	0	35	66	0
1130	Cracking (RC and Other)	SF	66	0	56	10	0
510	Wearing Surfaces	SF	2540	2488	26	26	0
3210	Delam/Spall/Patched Area/Pothole	SF	52	0	26	26	0
(16)							
All spans have spalls with exposed rebar, cracks and cracks with efflorescence. The left edge of the deck has spalls, cracks with efflorescence and is disintegrating. The wearing surface has a new overlay. Patches and a few potholes remain in the deck at bents 1 & 4.							
110	Reinforced Concrete Open Girder/Beam	LF	254	215	38	1	0
1080	Delamination/Spall/Patched Area	LF	3	0	2	1	0
1090	Exposed Rebar	LF	11	0	11	0	0
1120	Efflorescence/Rust Staining	LF	4	0	4	0	0
1130	Cracking (RC and Other)	LF	21	0	21	0	0
(110)							
Both girders have spalls, spalls with rebar, cracks and cracks with efflorescence. Bent 1 girder 2 has a spall in the bearing area.							
155	Reinforced Concrete Floor Beam	LF	48	48	0	0	0
(155)							
10/16/2018-KRM & RLS - No noticeable defects at this inspection.							
205	Reinforced Concrete Column	EA	4	2	1	1	0
1090	Exposed Rebar	EA	1	0	0	1	0
6000	Scour	EA	1	0	1	0	0
(205)							
Bent 2, columns 1 and 2 have abrasion. Column 1 has spalls with exposed rebar and delam.							
210	Reinforced Concrete Pier Wall	LF	36	13	22	1	0
1080	Delamination/Spall/Patched Area	LF	0	0	0	0	0
1090	Exposed Rebar	LF	2	0	1	1	0
1130	Cracking (RC and Other)	LF	3	0	3	0	0
1190	Abrasion/Wear (PSC/RC)	LF	18	0	18	0	0



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(210) Both pier walls have small cracks and bent 2 has abrasion at ground level. (210-1090)							
215	Reinforced Concrete Abutment	LF	99	88	10	1	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1090	Exposed Rebar	LF	1	0	0	1	0
1130	Cracking (RC and Other)	LF	9	0	9	0	0
(215) Both abutments have small cracks. Bent 1 has a spall with exposed rebar and bent 4 has a small spall.							
234	Reinforced Concrete Pier Cap	LF	50	47	3	0	0
1130	Cracking (RC and Other)	LF	3	0	3	0	0
(234) Bent 3 has vertical cracks.							
305	Assembly Joint without Seal	LF	76	0	0	76	0
2350	Debris Impaction	LF	76	0	0	76	0
(305) The joints at bents 1 and 4 have been overlayed.							
311	Movable Bearing	EA	6	0	6	0	0
1000	Corrosion	EA	6	0	6	0	0
(311) All six bearings have active corrosion.							
313	Fixed Bearing	EA	2	0	2	0	0
1000	Corrosion	EA	2	0	2	0	0
(313) Both bearings have active corrosion.							
330	Metal Bridge Railing	LF	131	131	0	0	0
515	Steel Protective Coating	SF	262	262	0	0	0
(330) No noticeable defects at this inspection.							
331	Reinforced Concrete Bridge Railing	LF	131	129	1	1	0



ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1130 (331)	Cracking (RC and Other) Cracks in the top of the bridge rail.	LF	2	0	1	1	0
334	Masonry Bridge Railing	LF	131	118	13	0	0
1610	Mortar Breakdown (Masonry)	LF	9	0	9	0	0
1640 (334)	Masonry Displacement Breakdown of mortar at various places. Masonry displacement in rail over bent 2.	LF	4	0	4	0	0



Span 3 soffit has spall with exposed rebar.



Bent 4 abutment has spall with exposed rebar.



Span 2 soffit has spall with exposed rebar.



Span 2 girder 1 at bent 3 left side has spalls with exposed rebar.



Span 2 girder 2 has delam at mid span.



Span 2 left side soffit overhang has cracks with efflorescence.



Span 2 left side soffit overhang has cracks with efflorescence.



Span 1 soffit has spalls with exposed rebar.



Bent 2 column 1 has spall with exposed rebar.



Deck overview.



Approach Northbound.



Girder 2 at bent 1 has delam above bearing



Span 1 girder 1 right side has spalls with exposed rebar.



Bent 2 pier wall has abrasion at ground level.

Maintenance Needs

Date Reported: 09/29/2011
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Component: Superstructure

Deficiency Description

Both girders in all spans have cracks with rust, efflorescence staining and exposed rebar.

Remarks



Span 2, girder 2. Exposed rebar at mid span.



Span 2 Girder 1 left side spalls with exposed rebar.



Left side looking back. Efflorescence on all three spans.



Span 1, girder 1, inside face. Spalls with exposed rebar.

Date Reported: 10/16/2018
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Deck

Deficiency Description

All spans have large spalls and exposed reinforcing steel with section loss in the soffit.

Remarks



Span 1, spalls with exposed rebar.



Span 3, spall with exposed rebar in the soffit.



Span 2, large spall with exposed rebar.



Span 3 soffit has spall with exposed rebar.



Span 2 soffit has spall with exposed rebar.



Span 1 soffit has spalls with exposed rebar.



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Team Lead: Shane Byrd Inspection Date: October 21, 2020

Date Reported: 10/21/2020
Priority: C - Important
Type of Work: Repair
Status: Open
Component:

Deficiency Description

Pothole in asphalt approach at joints of both ends of bridge.

Remarks



Pothole at joint at bent 1. Common bent 4.



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Team Lead: Shane Byrd **Inspection Date:** October 21, 2020

Inspection Comments

Job 1146 dwg 3433

Load posting no longer required as per email from David R. Ball dated March 08, 2018. Email is attached to Other tab.

Substructure Notes

10/16/2018- KRM & RLS- Underwater Type 2 inspection performed this date. Channel profile and sounding sheet attached to Sketch tab. Bent 2 column 2 has minor local scour.