



Latitude:34.33349, Longitude:-92.91930

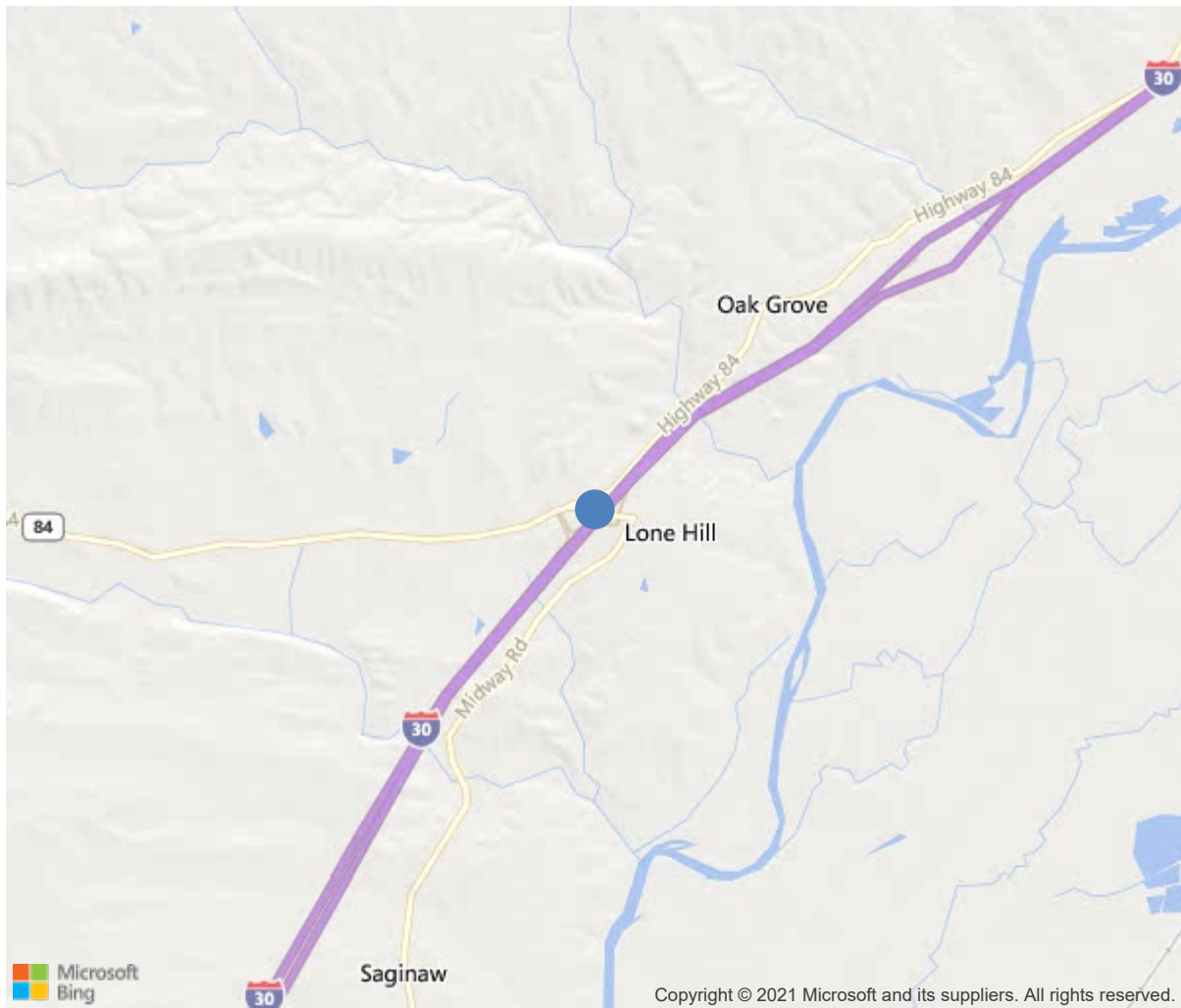
Route:15 Section:00 Log:0.12

Arnold Road ID:30xMIDWAYRDx1xA, Arnold Log mile:7.886

District 06, Hot Spring County

Owner: 1-State Highway Agency

.66 MI SW SOCIAL HILL



34.33349, -92.91930



Bridge #03942(Routine)
CR 15 Midway road over I-30 Log 91.11
Location: .66 MI SW SOCIAL HILL

Team Lead: Shane Byrd Inspection Date: July 13, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03942
(5) Inventory Route	15
(2) Highway Agency District	06
(3) County Code	59-Hot Spring County, Arkansas
(4) Place Code	0
(6) Features Intersected	I-30 Log 91.11
(7) Facility Carried	CR 15 Midway road
(9) Location	.66 MI SW SOCIAL HILL
(11) Mile Point	0.12 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.333488
(17) Longitude	-92.919296
(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	4
(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	1967
(106) Year Reconstructed	0
(42) Type of Service	11
On	1-Highway
Under	1-Highway, with or without pedestrian
(28) Lane	
On	2
Under	4
(29) Average Daily Traffic	268
(30) Year of ADT	1987
(109) Truck ADT	1 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	78 ft
(49) Structure Length	247 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	31.3 ft
(32) Approach Roadway Width (W/Shoulders)	28.9 ft
(33) Bridge Median	0-No median
(34) Skew	30 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	16.08 ft
Ref:	
(55) Min Lat Underclear RT	10.6 ft
Ref:	
(56) Min Lat Underclear LT	26.8 ft
NAVIGATION DATA	
(38) Navigation Control	N-Not applicable, no waterway.
(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	8-Rural Minor 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	6
(60) Substructure	5
(61) Channel & Channel Protection	N
(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	60
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	4
Rating	36
(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	5
(69) Clearances, Vertical/Horizontal	4
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	8
(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	N-Bridge not over waterway.
PROPOSED IMPROVEMENTS	
(75) Type of Work	Replacement of bridge or other
(76) Length of Structure Improvement	282 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 122
(96) Total Project Cost	\$ 608
(97) Year of Improvement Cost Estimate	2000
(114) Future ADT	347
(115) Year of Future ADT	2007

INSPECTIONS *			
(90) Inspection Date			07/2020
(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.			

Team Lead: Shane Byrd, **Inspection Date:** July 13, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	6854	3493	3186	175	0
1080	Delamination/Spall/Patched Area	SF	1881	0	1765	116	0
1090	Exposed Rebar	SF	21	0	3	18	0
1120	Efflorescence/Rust Staining	SF	166	0	166	0	0
1130	Cracking (RC and Other)	SF	283	0	242	41	0
1190	Abrasion/Wear (PSC/RC)	SF	1010	0	1010	0	0
(12)							
Deck has large transverse cracks in all spans, most cracks have been sealed in the past. There are shallow spalls in the gutters and center line. All spans have delaminated areas, up to 1400 square feet total and 55' of delams. Soffits have spalls with exposed reinforcing steel in all spans.							
107	Steel Open Girder/Beam	LF	1225	645	555	25	0
1000	Corrosion	LF	580	0	555	25	0
515	Steel Protective Coating	SF	10291	4350	1470	3491	980
3420	Peeling/Bubbling/Cracking	SF	1388	0	0	988	400
3440	Effectiveness (Steel Protective Coatings)	SF	4553	0	1470	2503	580
(107)							
Top flanges in all spans have active corrosion. Protective coating is peeling and has lost its effectiveness.							
Beam ends and the outside faces of the exterior beams were repainted 9/25/2003 by HBM.							
205	Reinforced Concrete Column	EA	6	3	2	1	0
1080	Delamination/Spall/Patched Area	EA	1	0	0	1	0
1130	Cracking (RC and Other)	EA	2	0	2	0	0
(205)							
Bents 2 and 3 have cracks and spalls.							
215	Reinforced Concrete Abutment	LF	72	68	4	0	0
1120	Efflorescence/Rust Staining	LF	2	0	2	0	0
1130	Cracking (RC and Other)	LF	2	0	2	0	0
(215)							
Both abutments have vertical cracks.							

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
Concrete bridge rail has vertical cracks scattered throughout structure..							



Deck overview.



Deck span 2 has spalls and spalls filled with asphalt.



Deck span 4 has spalls in the right lane.



Deck span 3 has sealed transverse cracks, common all spans.



Elevation.



Span 1 soffit bay 1 has spall with exposed rebar.



Span 1 beam 1 has corrosion, pitting up to 1/16".



Bent 2 cap right side has spall with exposed rebar.



Bent 2 column 2 has cracks near the bottom of the column.



Span 2 soffit over west bound traffic small delams.



Bent 3 cap back has spalls with exposed rebar.



Bent 3 column 1 has spalls.



Span 2 beam 3 has surface rust mid span.



Bent 4 cap ahead has spall with exposed rebar.



Soffit span 4 has spalls, spalls with exposed rebar, and delams in the soffit.



Soffit span 4 has spalls, spalls with exposed rebar, and delams in the soffit.

Maintenance Needs

Date Reported: 06/28/2011
Priority: C - Important
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Cap at bents 2, 3, & 4 have spalls with exposed rebar.

Remarks



Bent 2 right side, end of cap is deteriorating exposing the reinforcing steel.



Bent 3 cap spalls with exposed rebar



Bent 3, 9' of spall with exposed reinforcing steel that has section loss.



Bent 2 cap right side has spall with exposed rebar.



Bent 3 cap back has spalls with exposed rebar.



Bent 4 cap ahead has spall with exposed rebar.

Date Reported: 07/13/2020
Priority: C - Important
Type of Work: Repair
Status: Open
Component: Deck

Deficiency Description

All spans have spalls and spalls filled with asphalt.

Remarks



Deck span 2 has spalls and spalls filled with asphalt.



Deck span 4 has spalls in the right lane.



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Date Reported: 07/13/2020
Priority: B - Pressing; 6 month completion goal
Type of Work: Repair
Status: Open
Component: Deck

Deficiency Description

Span 2 soffit small delamination over west bound traffic.

Remarks



Span 2 soffit over west bound traffic small delams.



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Inspection Comments

Logged South Bound.
Job 6809, drawing 13095 for layout.

Substructure Notes

Recurring Special Inspection requested by DLV 10/19/2012 to monitor the substructure.