



Latitude:36.16843, Longitude:-90.59067

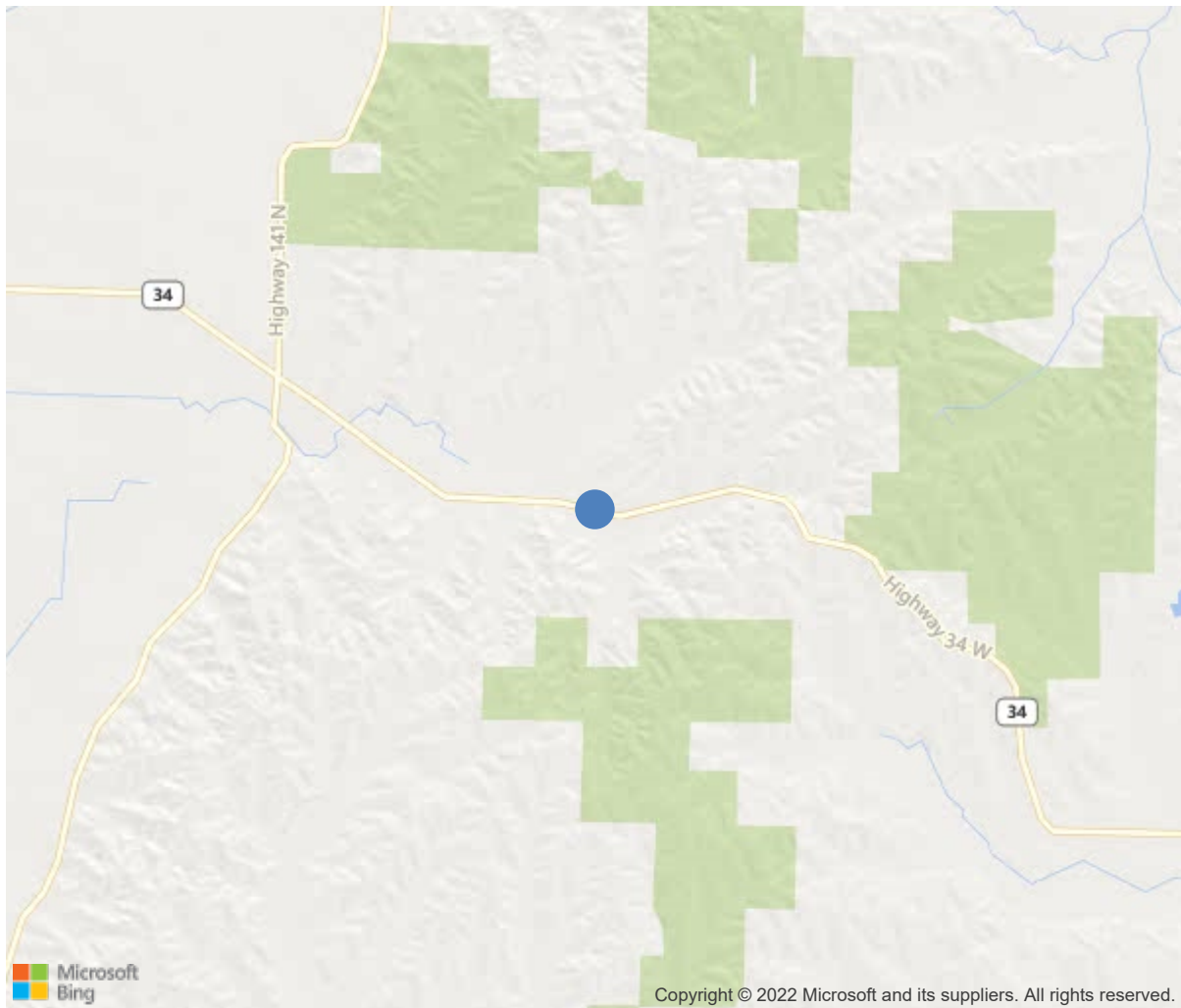
Route:34 Section:03 Log:11.1

Arnold Road ID:28x34x3xA, Arnold Log mile:11.062

District 10, Greene County

Owner: 1-State Highway Agency

1.5 MI E OF BEECH GROVE



36.16843, -90.59067

Inspection Direction : W to E



Bridge #M0774(Routine)
SH 34-03- LM 11.10 over CREEK
Location: 1.5 MI E OF BEECH GROVE

Team Lead: Tim Myrick Inspection Date: February 01, 2022

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	M0774
(5) Inventory Route	34
(2) Highway Agency District	10
(3) County Code	55-Greene County, Arkansas
(4) Place Code	0
(6) Features Intersected	CREEK
(7) Facility Carried	SH 34-03- LM 11.10
(9) Location	1.5 MI E OF BEECH GROVE
(11) Mile Point	11.1 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	36.16843
(17) Longitude	-90.59067
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	122
Material	1-Concrete
Type	22-Channel beam
(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	2-Concrete Precast Panels
(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	1957
(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	680
(30) Year of ADT	2014
(109) Truck ADT	12 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	19 ft
(49) Structure Length	38 ft
(50) Curb or Sidewalk Width	
Left	0.7 ft
Right	0.7 ft
(51) Bridge Roadway Width Curb to Curb	23.8 ft
(52) Deck Width Out to Out	25.2 ft
(32) Approach Roadway Width (W/Shoulders)	27.9 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	25.6 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	7-Rural Major 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	3
(60) Substructure	5
(61) Channel & Channel Protection	6
(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	60
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	2
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	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(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	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	1178
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			02/2022
(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.			



Bridge #M0774(Routine)
SH 34-03- LM 11.10 over CREEK
Location: 1.5 MI E OF BEECH GROVE

Team Lead: Tim Myrick, **Inspection Date:** February 01, 2022

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	958	953	5	0	0
1120	Efflorescence/Rust Staining	SF	5	0	5	0	0
510	Wearing Surfaces	SF	904	424	0	480	0
3220	Crack (Wearing Surface)	SF	480	0	0	480	0
110	Reinforced Concrete Open Girder/Beam	LF	266	0	0	145	121
1080	Delamination/Spall/Patched Area	LF	100	0	0	100	0
1090	Exposed Rebar	LF	166	0	0	45	121
216	Timber Abutment	LF	40	0	40	0	0
1140	Decay/Section Loss	LF	40	0	40	0	0
228	Timber Pile	EA	15	0	12	2	1
1140	Decay/Section Loss	EA	3	0	0	2	1
1150	Check/Shake	EA	12	0	12	0	0
234	Reinforced Concrete Pier Cap	LF	105	99	2	4	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
1130	Cracking (RC and Other)	LF	4	0	0	4	0
330	Metal Bridge Railing	LF	76	0	76	0	0
1000	Corrosion	LF	76	0	76	0	0
515	Steel Protective Coating	SF	258	0	258	0	0
3440	Effectiveness (Steel Protective Coatings)	SF	258	0	258	0	0





Maintenance Needs

Date Reported: 03/13/2012
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Substructure

Deficiency Description

Bent 2 pile 2 has 2" outside decay near groundline.
Bent 3 pile 4 is decayed and partially hollow.

Remarks





B2 p2



Bridge #M0774(Routine)
SH 34-03- LM 11.10 over CREEK
Location: 1.5 MI E OF BEECH GROVE

Team Lead: Tim Myrick Inspection Date: February 01, 2022

Date Reported: 03/13/2012
Priority: G - General/ Preventive maintenance
Type of Work: Repair
Status: Monitor
Component: Channel

Deficiency Description

Bent 1 is undermined up to 1.5' below cap and 3' back under. Rip rap is in place on slope.

Remarks

Date Reported: 03/13/2012
Priority: C - Important
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Precast units have several spalls with rebar exposed. Exposed rebar has some section loss.

Remarks





Bridge #M0774(Routine)

SH 34-03- LM 11.10 over CREEK

Location: 1.5 MI E OF BEECH GROVE

Team Lead: Tim Myrick Inspection Date: February 01, 2022

Date Reported: 03/05/2018

Priority: D- Routine

Type of Work: Repair

Status: Monitor

Component: Approach

Deficiency Description

Approach roadways have up to 1/2" settlement at bents 1 and 3.

Remarks

Team Lead: Tim Myrick Inspection Date: February 01, 2022

Date Reported: 02/04/2020
Priority: B - Pressing; 6 month completion goal
Type of Work: Repair
Status: Assigned
Component: 228 - Timber Pile

Deficiency Description

Bent 2 pile 5 is decayed and hollow with solid core.

Remarks

to Dist bridge crew for repair when work schedule allows KAW 2/12/2020



Bent 2 pile 5

Date Reported: 02/01/2022
Priority: A - Safety deficiency; requires prompt action
Type of Work: Replace
Status: Open
Component: Superstructure

Deficiency Description

Span 1 units 4 and 6 have some minor hairline cracks. Some rebar has up to 50% section loss.
Some rebar has 2' - 8' completely lost of bond with concrete.
Span 1 unit 3 has 15 ft. of exposed rebar. Approx. 9 ft. of rebar has lost bond with concrete. Remainder of unit has cracked and delaminated areas.
Span 1 unit 4 has 19 ft. of exposed rebar. Approx. 7 ft. of rebar has lost bond with concrete.
Span 1 unit 5 has 17 ft. of exposed rebar. Approx. 5 ft. of rebar has lost bond with concrete. Remainder of unit has cracked and delaminated areas.
Span 1 unit 6 has 19 ft. of exposed rebar. Approx. 18 ft. of rebar has lost bond with concrete.
Span 2 unit 3 has 19 ft. of exposed rebar. Approx. 9 ft. of rebar has lost bond with concrete.
Span 2 unit 6 has 19 ft. of exposed rebar. Approx. 8 ft. of rebar has lost bond with concrete. Remainder of unit has cracked and delaminated areas.
Span 2 unit 7 has 13 ft. of exposed rebar, 6 ft. cracked and delaminated. 3 ft. of rebar has lost bond from concrete.

Remarks



S1 B1 u3



S1 B1 u3



S1 B2 u4



S1 B2 u6



S1 B1 u6



S1 b1 u6&7



S2 b3 u6&7



S2 B2 u6



S2 B2 u3



S2 b3 u7



S2 b3 u7



S2 B2 u3-5



S2 B2 u6



S1 u4



S1 u4



S1 u6



S1 u6



S1 u6



S1 u4



S1 b1 u7-4

Date Reported: 02/01/2022
Priority: B - Pressing; 6 month completion goal
Type of Work: Replace
Status: Open
Component: Superstructure

Deficiency Description

Span 1 unit 2 has 10 ft. of rebar exposed, and 9 ft. cracked and delaminated.
Span 1 unit 7 has 19 ft. of exposed rebar.
Span 2 unit 2 has 7 ft. of exposed rebar, 12 ft. cracked and delaminated.
Span 2 unit 4 has 5 ft. of exposed rebar, 14 ft. cracked and delaminated.
Span 2 unit 5 has 4 ft. of exposed rebar, 15 ft. of cracking.

Remarks



B2 p5



S2 B2 u5



B2 p5



S2 B2 u2



Deck Notes

Approach roadways have up to ½ in. settlement at bents 1 and 3.
Wearing surface has cracks over bent 2 and in between precast units.
Left and right bridge rails have minor corrosion.
Some efflorescence to top flange bottom side.

Superstructure Notes

Span 2 unit 2 soffit has 5 ft. of efflorescence.
Precast units have several spalls with exposed rebar. Exposed rebar has some section loss and some rebar has up to 50% section loss. . Several rebars has 2' - 8' completely lost of bond with concrete.
Span 1 units 4 and 6 have some minor hairline cracks.
Span 1 unit 2 has 10 ft. of rebar exposed, and 9 ft. cracked and delaminated.
Span 1 unit 3 has 15 ft. of exposed rebar. Approx. 9 ft. of rebar has lost bond with concrete. Remainder of unit has cracked and delaminated areas.
Span 1 unit 4 has 19 ft. of exposed rebar. Approx. 7 ft. of rebar has lost bond with concrete.
Span 1 unit 5 has 17 ft. of exposed rebar. Approx. 5 ft. of rebar has lost bond with concrete. Remainder of unit has cracked and delaminated areas.
Span 1 unit 6 has 19 ft. of exposed rebar. Approx. 18 ft. of rebar has lost bond with concrete.
Span 1 unit 7 has 19 ft. of exposed rebar.
Span 2 unit 2 has 7 ft. of exposed rebar, 12 ft. cracked and delaminated.
Span 2 unit 3 has 19 ft. of exposed rebar. Approx. 9 ft. of rebar has lost bond with concrete.
Span 2 unit 4 has 5 ft. of exposed rebar, 14 ft. cracked and delaminated.
Span 2 unit 5 has 4 ft. of exposed rebar, 15 ft. of cracking.
Span 2 unit 6 has 19 ft. of exposed rebar. Approx. 8 ft. of rebar has lost bond with concrete. Remainder of unit has cracked and delaminated areas.
Span 2 unit 7 has 13 ft. of exposed rebar, 6 ft. cracked and delaminated. 3 ft. of rebar has lost bond from concrete.

Substructure Notes

Bent 1 is undermined up to 1.5 ft. below cap and 3 ft. back under on left end. Rip rap is in place on slope.
Timber piles have several checks.
Bent 2 pile 2 has 2 in. outside decay near ground line.
Bent 2 pile 4 has 1" outside decay bottom 1' at ground line.
Bent 2 pile 5 is decayed and hollow with solid 2" core.
Bent 3 cap has a few horizontal cracks and honeycombed areas near bottom of cap with a 2' x 2' delamination area at old patch over pile 3.
Bent 3 cap is undermined 4 ft. below cap.
Bent 3 Timber back wall in place holding back fill. Backwall has some decay throughout , especially top to timber boards..
Bent 3 pile 4 is decayed & partially hollow.
Trees & brush in channel.