



Bridge #06003(Routine, Underwater type 2)

SH 14/Stone County over BRIAR CREEK

Location: 1.26 MI NW INDEP CO LINE

Team Lead: Nathan Edwards **Inspection Date:** April 01, 2020



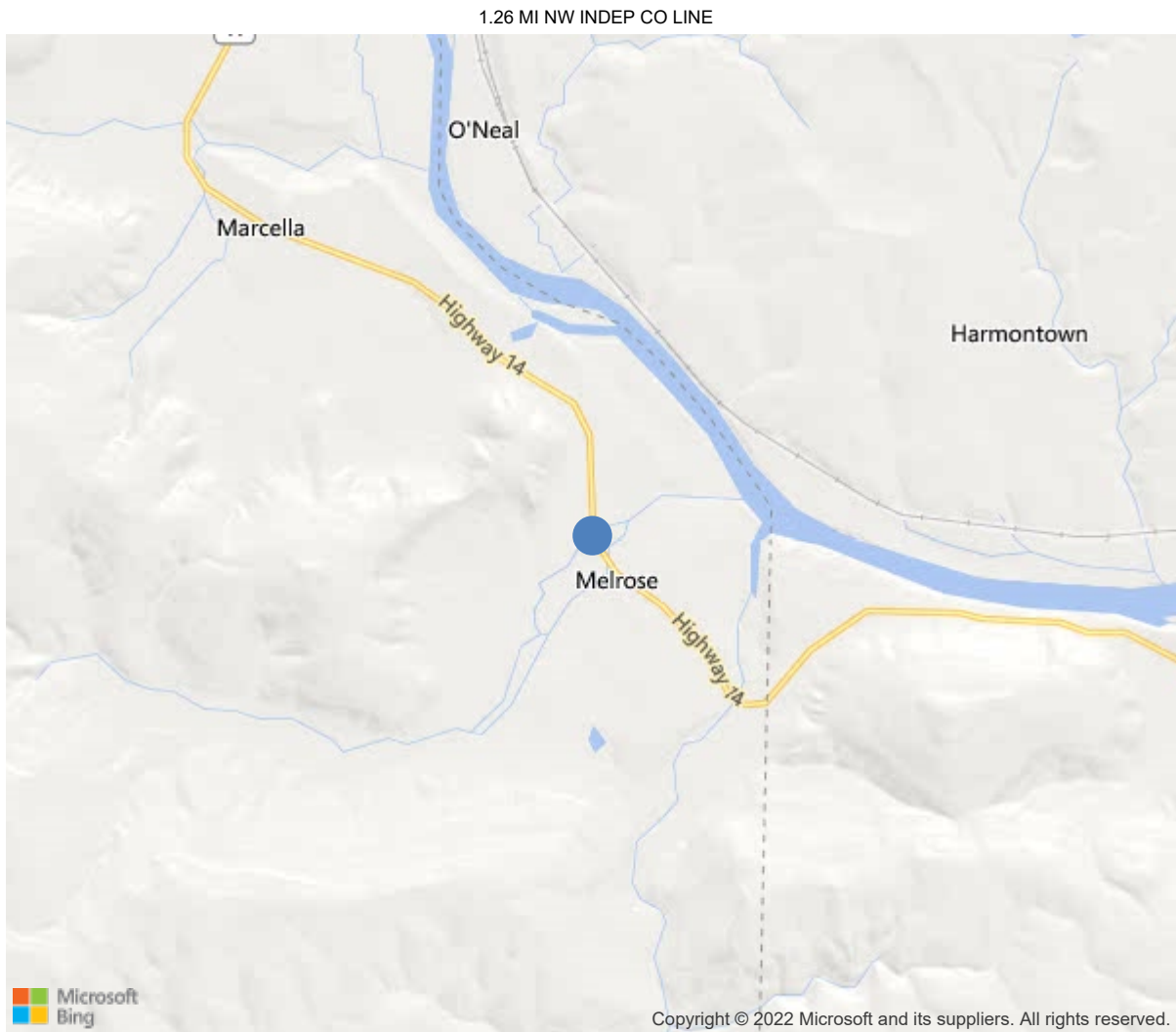
Latitude:35.74662, Longitude:-91.85164

Route:14 Section:07 Log:21.076

Arnold Road ID:69x14x7xA, Arnold Log mile:20.932

District 05, Stone County

Owner: 1-State Highway Agency



35.74662, -91.85164



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	06003
(5) Inventory Route	14
(2) Highway Agency District	05
(3) County Code	137-Stone County, Arkansas
(4) Place Code	0
(6) Features Intersected	BRIAR CREEK
(7) Facility Carried	SH 14/Stone County
(9) Location	1.26 MI NW INDEP CO LINE
(11) Mile Point	21.076 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000014070
(16) Latitude	35.74662
(17) Longitude	-91.85164
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	11
Material	1-Concrete
Type	1-Slab
(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	1983
(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	1600
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	9 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	35 ft
(49) Structure Length	140 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	34.1 ft
(52) Deck Width Out to Out	36.8 ft
(32) Approach Roadway Width (W/Shoulders)	34.1 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	35.1 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	6-Rural Minor Arterial
(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	7
(59) Superstructure	7
(60) Substructure	7
(61) Channel & Channel Protection	7
(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	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	7
(68) Deck Geometry	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1-Inspected feature meets currently a
(36B) Transitions	1-Inspected feature meets currently a
(36C) Approach Guardrail	1-Inspected feature meets currently a
(36D) Approach Guardrail Ends	1-Inspected feature meets currently a
(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	1855
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			04/2020
(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.			



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	5152	5137	7	8	0
1080	Delamination/Spall/Patched Area	SF	4	0	0	4	0
1090	Exposed Rebar	SF	5	0	1	4	0
1130	Cracking (RC and Other)	SF	6	0	6	0	0
(38)	Spalls with 5' rebar exposed to outside edge of deck over Bents 1, 2 & 3. Minor vertical cracking to outside edge of deck over Bents 1, 2 & 3. Spalling to outside edges of deck over bents.						
205	Reinforced Concrete Column	EA	6	3	2	1	0
1080	Delamination/Spall/Patched Area	EA	1	0	0	1	0
6000	Scour	EA	2	0	2	0	0
(205)	Spall to Column 2 @ Bent 3. Minor local scour @ Columns 1 & 2 @ Bent 2.						
215	Reinforced Concrete Abutment	LF	104	104	0	0	0
234	Reinforced Concrete Pier Cap	LF	111	103	8	0	0
1010	Cracking	LF	4	0	4	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1120	Efflorescence/Rust Staining	LF	3	0	3	0	0
(234)	Bent 3 - 1' spall with no rebar exposed to keyway on Right end @ backside. Bent 2 - 3 efflorescent cracks to cap. Vertical cracking to caps @ Bents 1 & 3.						
301	Pourable Joint Seal	LF	102	42	45	15	0
2320	Seal Adhesion	LF	60	0	45	15	0
(301)	Joint material losing adhesion at all bents.						
331	Reinforced Concrete Bridge Railing	LF	280	280	0	0	0



Roadway with Log Mile running Northwest to Southeast.

Maintenance Needs

Date Reported: 04/23/2012

Priority: D- Routine

Type of Work: N/A

Status: Assigned

Component:

Deficiency Description

Approach roadways
Approaches have settled at Abutments 1 and 2.

Remarks



Approach roadway settlement @ Abutment 1.



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Type of Work: N/A

Status: Monitor

Component:

Deficiency Description

Poured joint seal

Joints are cracked, deteriorated, and leak

Remarks



Pourable joint seal over Bent 2.



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Component:

Deficiency Description

Bents 1 - 3

Spalls with rebar exposed to outside edges of deck over caps.

Remarks



Bent 3 Left.



Bent 2 Left.



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Inspection Comments

Elevation with Log Mile running to the Right.

Job Number: 5798