



Latitude:35.74662, Longitude:-91.85164

Route:14 Section:07 Log:21.076

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

District 05, 137 - Stone County

Owner: 1 - State Highway Agency

Inspection Direction: 1 - N to S

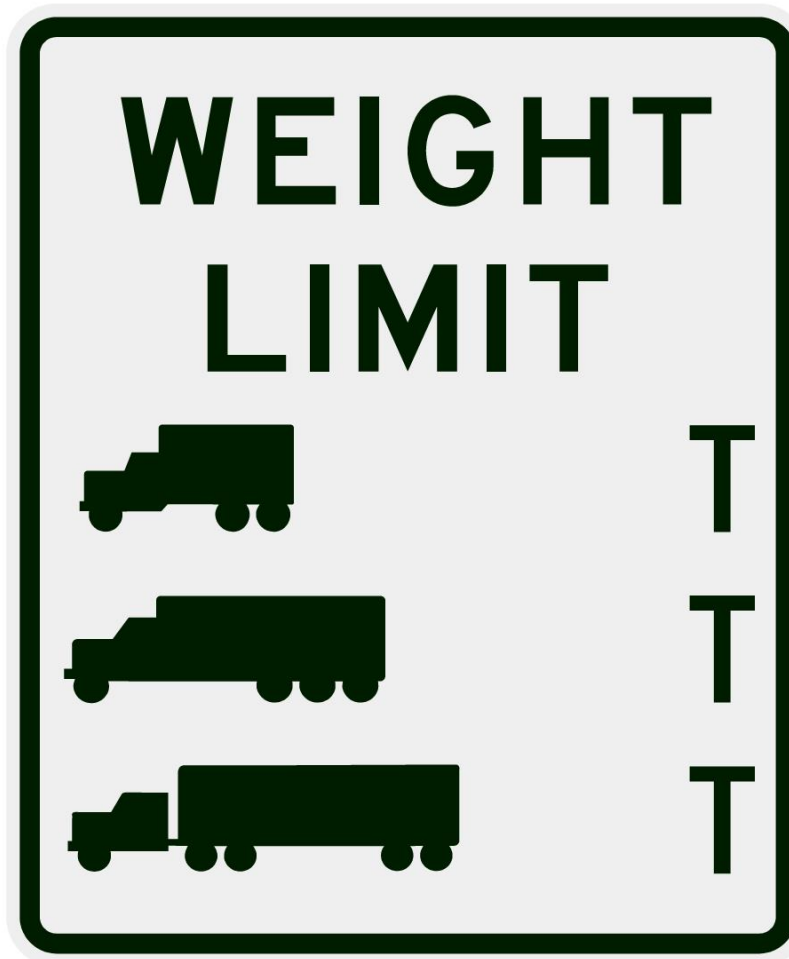
### Bridge Posting Information

41 - Structure Open/Posted/Closed: A - Open, no restriction

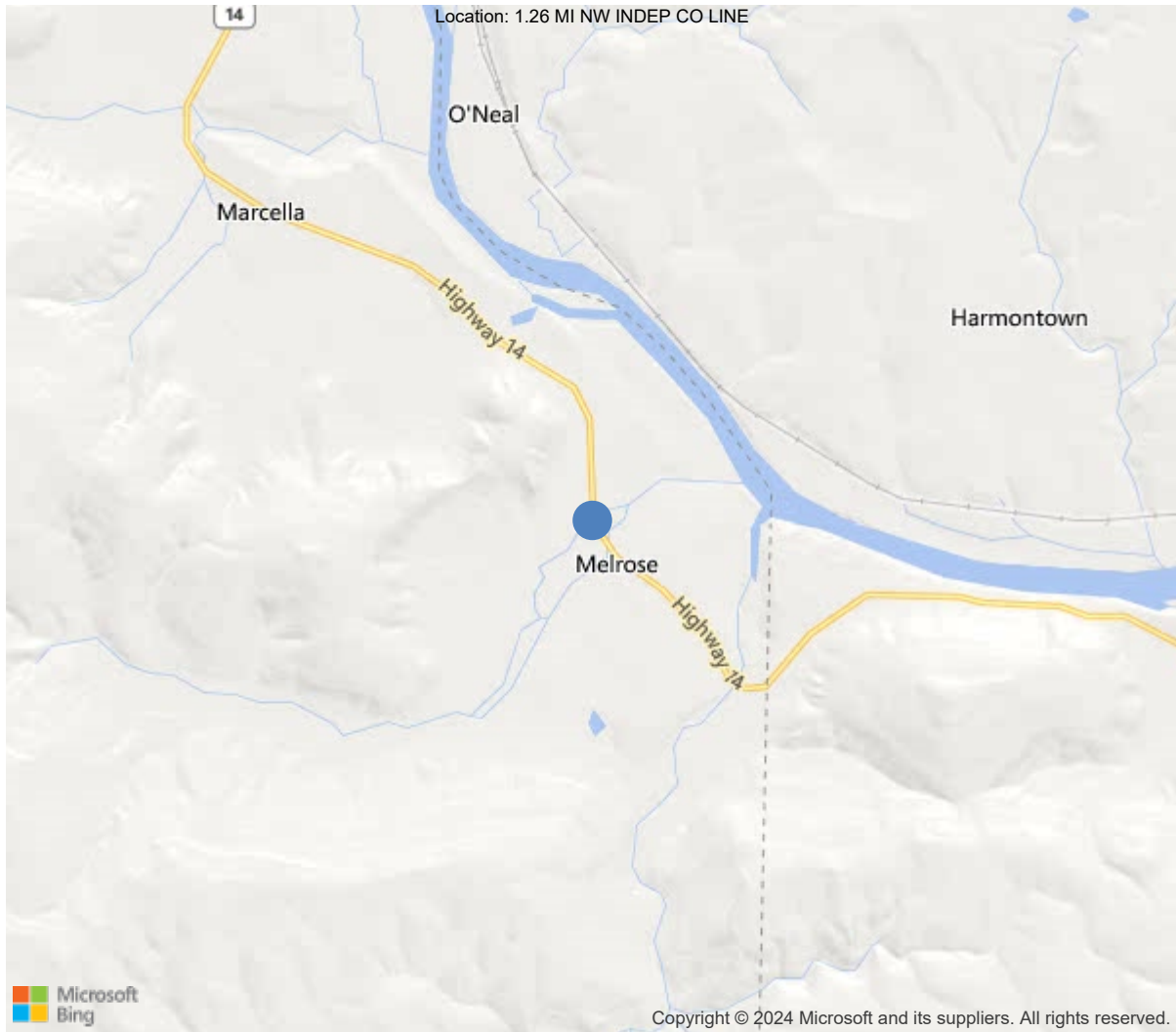
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	40		
Code 9 (31 Tons)	50		
Code 5 (40 Tons)	60		

If calculated Capacity is less than the Legal Load Listed, the Bridge Legally Requires Posting Signs to be installed by the Bridge Owner



30"x36" AR



35.74662, -91.85164



Asset #06003(Routine, Underwater type 2)

SH 14/Stone County over BRIAR CREEK

Location: 1.26 MI NW INDEP CO LINE

Team Lead: Floyd Haley Inspection Date: 04/09/2024

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06003
(5) Inventory Route	1
(2) Highway Agency District	05 - District 05
(3) County Code	137 - Stone County
(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 pl
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	2018
(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	0 - 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 w
(111) Pier Protection	1 - Navigation protection not
(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
(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
(20) Toll	3 - On free road. The structure
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	7
(59) Superstructure	6
(60) Substructure	6
(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	
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	
(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 current
(36B) Transitions	1 - Inspected feature meets current
(36C) Approach Guardrail	1 - Inspected feature meets current
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	5 - Bridge foundations determined t
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	04/09/2024		
(91) Frequency	24		
(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.			



**Asset #06003**(Routine, Underwater type 2)

**SH 14/Stone County over BRIAR CREEK**

**Location: 1.26 MI NW INDEP CO LINE**

**Team Lead: Floyd Haley Inspection Date: 04/09/2024**

### **General Observation**

Elevation with Log Mile running to the Right.

Job Number: 5798

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#### **58 - Deck** (7 - GOOD CONDITION - some minor problems.)

Deck is in overall Good condition with minor abrasion to entire surface of deck.

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#### **59 - Superstructure** (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Superstructure is in overall Satisfactory condition with areas of cracking & spalling, with some spalls have reinforcing steel exposed, to outside edges of deck over bents.

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#### **60 - Substructure** (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Substructure is in overall Satisfactory condition with areas of cracking, some with efflorescence, & spalling to caps & a spall & minor local scour to columns @ Bents 2 & 3.

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#### **61 - Channel/Channel Protection** (7 - Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift.)

Channel is in overall Good condition with only minor repairs needed.

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#### **A-51 - Inspection Direction** (1 - N to S)

Roadway with Log Mile running Northwest to Southeast.

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SH 14/Stone County over BRIAR CREEK

Location: 1.26 MI NW INDEP CO LINE

Team Lead: Floyd Haley Inspection Date: 04/09/2024

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	5152	1	5136	15	0
1080	Delamination/Spall/Patched Area	SF	12	0	1	11	0
1090	Exposed Rebar	SF	5	0	1	4	0
1130	Cracking (RC and Other)	SF	6	0	6	0	0
1190	Abrasion/Wear (PSC/RC)	SF	5128	0	5128	0	0
(38) Minor abrasion to deck @ all spans. Spalls with 5' reinforcing steel 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. Span 4, Abutment 2, Right: spalling. CS3.							
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) Bent 2 Columns 1 & 2: Minor local scour. Bent 3 Column 2: Spall.							
215	Reinforced Concrete Abutment	LF	104	104	0	0	0
234	Reinforced Concrete Pier Cap	LF	111	102	7	2	0
1010	Cracking	LF	4	0	4	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	0	1	0
1090	Exposed Rebar	LF	1	0	0	1	0
1120	Efflorescence/Rust Staining	LF	3	0	3	0	0
(234) Bents 1 & 3: Vertical cracking to caps. Bent 2 - 3 efflorescent cracks to cap. Bent 3 - 1' spall with no rebar exposed to keyway on Right end @ backside.							
301	Pourable Joint Seal	LF	102	12	45	45	0
2320	Seal Adhesion	LF	90	0	45	45	0
(301) Pourable Joints: Adhesion failure							
331	Reinforced Concrete Bridge Railing	LF	280	280	0	0	0



Elevation.



Typical undersurface.



Typical deck.



Right side of bridge: Channel view.



Left side of Bridge: Channel view.



Span 2: Channel view.



Inventory.



Spans 2 & 3, Bent 2, Left edge of slab: spalling with exposed reinforcing steel with section loss. CS3.



Span 4, Bent 3, Left edge of slab: spalling with exposed reinforcing steel with section loss. CS3.



Joint at Bent 2: typical seal adhesion failure. CS3.



Bent 3, Back, Right Keyway: spalling. CS3.



Span 1, Bent 1, Right edge of slab: large spall with exposed reinforcing steel with no section loss. CS3.



Span 3, Bent 3, Right edge of slab: spalling. CS3.



Bent 3, Column 2: spall. CS3.



Bent 2, Columns 1 & 2: minor localized scour. CS2.



Bent 1, Back, adjacent to Column 1: vertical cracking. CS2.



Spans 1 - 4: minor abrasion throughout structure. CS2.



Bent 1, Back, adjacent to Column 1: exposed reinforcing steel with section loss. CS3.

## Maintenance Needs

Date Reported: 04/18/2016

Priority: D- Routine

Type of Work: Approach Leveling/Maintenance

Status: Monitor

Component: Approach

## Deficiency Description

Approach roadways

Approaches have settled at Abutments 1 and 2.

## Remarks



Abutment 2, Approach roadway: settlement.



Abutment 1, Approach roadway: settlement.



Approach roadwaysApproaches have settled at  
Abutments 1 and 2.Abutment 2.



Approach roadwaysApproaches have settled at  
Abutments 1 and 2.Abutment 1.



Approach roadway settlement @ Abutment 1.

**Maintenance Needs**

**Date Reported:** 04/18/2016

**Priority:** D- Routine

**Type of Work:** Superstructure Repair

**Status:** Monitor

**Component:** Superstructure

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**Deficiency Description**

Bents 1 - 3

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

**Remarks**

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04/19/2022

Bents 1 - 3 Spalls with rebar exposed to outside edges of deck over caps.



05/05/2020

Bent 2 Left.



05/05/2020

Bent 3 Left.



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**SH 14/Stone County over BRIAR CREEK**

**Location: 1.26 MI NW INDEP CO LINE**

**Team Lead: Floyd Haley Inspection Date: 04/09/2024**

## **Routine Maintenance**

Check Box Maintenance Items

<b>Type of Maintenance</b>	<b>Is recommended?</b>
A-54 - Sealable Deck Cracks	No
A-55 - Deck Washing Needed	No
A-56 - Joint Cleaning/Flushing Needed	No
A-57 - Beam End and Bearing Paint Needed	No
A-58 - Cap Cleaning/Flushing Needed	No
A-59 - Joint Repair Needed	Yes
A-60 - Full Beam Painting Needed	No
A-61 - Polymer Overlay Advised	No
A-62 - Hydro and LMC Advised	No
A-63 - Missing/Incorrect Log Mile Signage	No
A-64 - Vegetation Removal Requested	No

**A-54 - Sealable Deck Cracks (No)**

**A-55 - Deck Washing Needed (No)**

**A-56 - Joint Cleaning/Flushing Needed (No)**



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**Team Lead: Floyd Haley Inspection Date: 04/09/2024**

**A-57 - Beam End and Bearing Painting Needed (No)**

**A-58 - Cap Cleaning/Flushing Needed (No)**

**A-59 - Joint Repair Needed (Yes)**

**A-60 - Full Beam Painting Needed (No)**

**A-61 - Polymer Overlay Advised (No)**

**A-62 - Hydro and LMC Advised (No)**

**A-63 - Missing/Incorrect Log Mile Signage (No)**

**A-64 - Vegetation Removal Requested (No)**



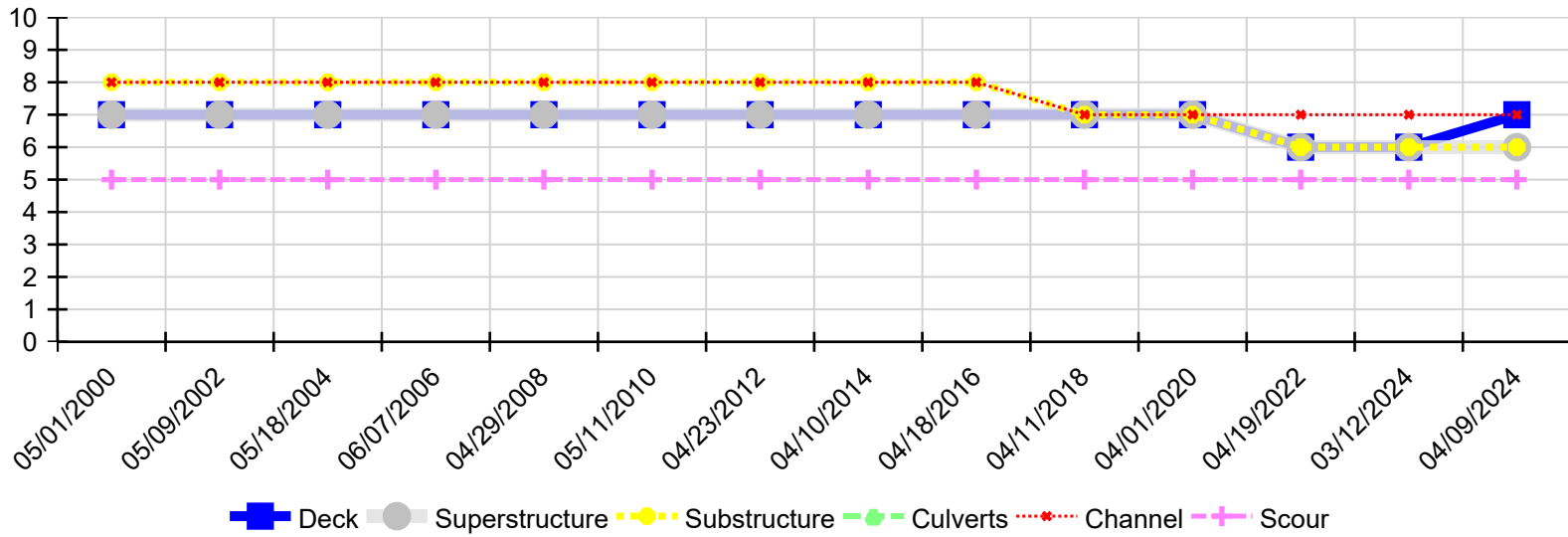
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SH 14/Stone County over BRIAR CREEK

Location: 1.26 MI NW INDEP CO LINE

Team Lead: Floyd Haley Inspection Date: 04/09/2024

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
04/09/2024	7	6	6	N	7	5
03/12/2024	6	6	6	N	7	5
04/19/2022	6	6	6	N	7	5
04/01/2020	7	7	7	N	7	5
04/11/2018	7	7	7	N	7	5
04/18/2016	7	7	8	N	8	5
04/10/2014	7	7	8	N	8	5
04/23/2012	7	7	8	N	8	5
05/11/2010	7	7	8	N	8	5
04/29/2008	7	7	8	N	8	5
06/07/2006	7	7	8	N	8	5
05/18/2004	7	7	8	N	8	5
05/09/2002	7	7	8	N	8	5
05/01/2000	7	7	8	N	8	5