



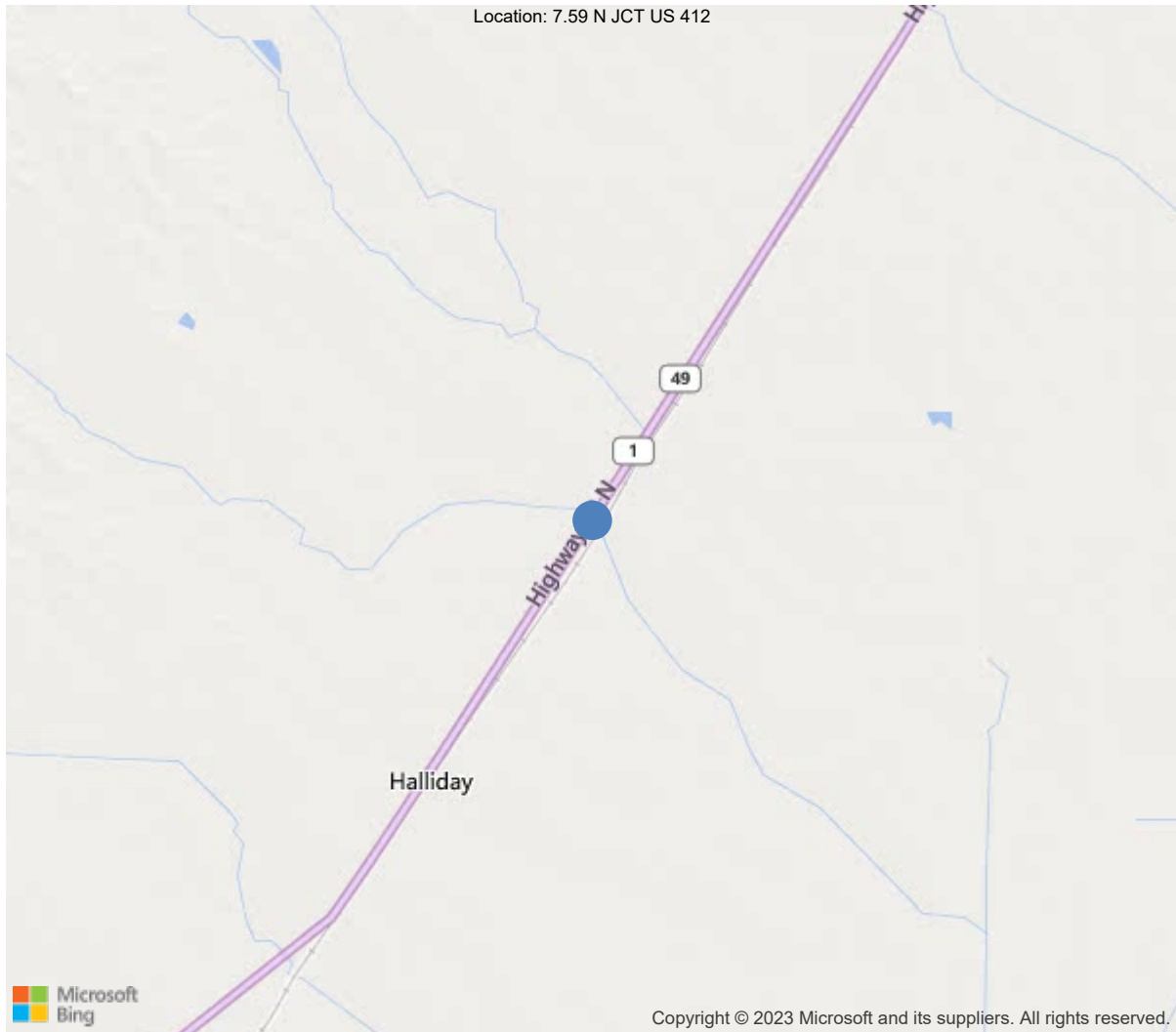
Latitude:36.13892, Longitude:-90.41986

Route:49 Section:02 Log:9.21

Arnold Road ID:28x49x2xA, Arnold Log mile:9.207

District 10, 55 - Greene County

Owner: 1 - State Highway Agency



36.13892, -90.41986



Asset #03083(Routine, Underwater type 2)
US 49-02- LM 9.21 over HENDERSON CREEK

Location: 7.59 N JCT US 412

Team Lead: Tim Myrick, Inspection Date: 11/07/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	03083
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	55 - Greene County
(4) Place Code	0
(6) Features Intersected	HENDERSON CREEK
(7) Facility Carried	US 49-02- LM 9.21
(9) Location	7.59 N JCT US 412
(11) Mile Point	9.21 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000049020
(16) Latitude	36.138923546875
(17) Longitude	-90.4198603559865
(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	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	1961
(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	6400
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	2 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	75 ft
(50) Curb or Sidewalk Width	
Left	1.4 ft
Right	1.4 ft
(51) Bridge Roadway Width Curb to Curb	27.9 ft
(52) Deck Width Out to Out	31.5 ft
(32) Approach Roadway Width (W/Shoulders)	44 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	30.8 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	5 - None present but re-evalua
(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 exis
(102) Direction of Traffic	2 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0 - N/A
(110) Designated National Network	1 - The inventory route is par
(20) Toll	3 - On free road. The structu
(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	7
(60) Substructure	7
(61) Channel & Channel Protection	5
(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	45
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	27
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	6
(68) Deck Geometry	2
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0 - Inspected feature does not meet
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	0 - Inspected feature does not meet
(113) Scour Critical Bridges	5 - Bridge foundations determined t
PROPOSED IMPROVEMENTS	
(75) Type of Work	31 - Replacement of bridge or
(76) Length of Structure Improvement	101 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 265
(96) Total Project Cost	\$ 681
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	6960
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	11/07/2022		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
* 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 #03083(Routine, Underwater type 2)

District: 10, County: 55 - Greene County

Team Lead: Tim Myrick, Inspection Date: 11/07/2022

General Observation (False)

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58 - Deck (7)

Asphalt wearing surface has several cracks.

59 - Superstructure (7)

Soffit portion of slab has a few small spalled and delaminated areas and a longitudinal crack near center line with some efflorescence.

60 - Substructure (7)

Caps have a few minor cracks, spalls, and delaminated areas.

61 - Channel/Channel Protection (5)

Scour repaired at bent 1 some time in the past, repair is beginning to undermine 1 ft. below & 1 ft. back under repair near centerline.

Caps have a few minor cracks, spalls, and delaminated areas.

Bent 4 scour repair is beginning to undermine on left end.

Embankment is eroded under and adjacent to bridge near bent 4 upstream side.

Very little berm remaining at bent 4.

Large tree under span 2 & 3.

A-46 - Asset Files

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Asset #03083(Routine, Underwater type 2)

US 49-02- LM 9.21 over HENDERSON CREEK

Location: 7.59 N JCT US 412

Team Lead: Tim Myrick, Inspection Date: 11/07/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	2363	2261	101	1	0
1080	Delamination/Spall/Patched Area	SF	2	0	1	1	0
1120	Efflorescence/Rust Staining	SF	25	0	25	0	0
1130	Cracking (RC and Other)	SF	75	0	75	0	0
510	Wearing Surfaces	SF	2100	1913	0	187	0
3220	Crack (Wearing Surface)	SF	187	0	0	187	0
215	Reinforced Concrete Abutment	LF	80	68	1	11	0
6000	Scour	LF	12	0	1	11	0
227	Reinforced Concrete Pile	EA	14	14	0	0	0
234	Reinforced Concrete Pier Cap	LF	65	55	10	0	0
1080	Delamination/Spall/Patched Area	LF	7	0	7	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	2	0	2	0	0
301	Pourable Joint Seal	LF	56	56	0	0	0
330	Metal Bridge Railing	LF	150	150	0	0	0
515	Steel Protective Coating	SF	510	510	0	0	0
3440	Effectiveness (Steel Protective Coatings)	LF	510	510	0	0	0



Deck

ELEMENTS		DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab		SF	2363	2261	101	1	0
1080	Delamination/Spall/Patched Area		SF	2	0	1	1	0
1120	Efflorescence/Rust Staining		SF	25	0	25	0	0
1130	Cracking (RC and Other)		SF	75	0	75	0	0
510	Wearing Surfaces		SF	2100	1913	0	187	0
3220	Crack (Wearing Surface)		SF	187	0	0	187	0

58 - Deck (7)

Comment: Asphalt wearing surface has several cracks.



Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4

59 - Superstructure (7)

Comment: Soffit portion of slab has a few small spalled and delaminated areas and a longitudinal crack near center line with some efflorescence.



Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	80	68	1	11	0
6000	Scour	LF	12	0	1	11	0
227	Reinforced Concrete Pile	EA	14	14	0	0	0
234	Reinforced Concrete Pier Cap	LF	65	55	10	0	0
1080	Delamination/Spall/Patched Area	LF	7	0	7	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	2	0	2	0	0

60 - Substructure (7)

Comment: Caps have a few minor cracks, spalls, and delaminated areas.

61 - Channel/Channel Protection (5)

Comment: Scour repaired at bent 1 some time in the past, repair is beginning to undermine 1 ft. below & 1 ft. back under repair near centerline.

Caps have a few minor cracks, spalls, and delaminated areas.

Bent 4 scour repair is beginning to undermine on left end.

Embankment is eroded under and adjacent to bridge near bent 4 upstream side.

Very little berm remaining at bent 4.

Large tree under span 2 & 3.



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Team Lead: Tim Myrick, **Inspection Date:** 11/07/2022

Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4





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US 49-02- LM 9.21 over HENDERSON CREEK

Location: 7.59 N JCT US 412

Team Lead: Tim Myrick, **Inspection Date:** 11/07/2022

Maintenance Needs

Date Reported: 01/03/2011
Priority: (Inactive) (Inactive) G - General/ Preventive maintenance
Type of Work: Repair (General)
Status: Monitor
Component: Deck

Deficiency Description

Slab soffit has a few small spalled and delaminated areas and a longitudinal crack near center line with some efflorescence.

Remarks

Date Reported: 01/03/2011

Priority: C - Important
Type of Work: Repair (General)
Status: Monitor
Component: Channel

Deficiency Description

Bent 1 beginning to undermine.
Bent 4 scour repair is beginning to undermine on left end, 1 ft. below & 1 ft. back under near centerline.
Embankment is eroded under and adjacent to bridge near bent 4 upstream side.
Very little berm remaining at bent 4.

Remarks



B4



B1



Bent 4 embankment





Bent 4 erosion 2020



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Location: 7.59 N JCT US 412

Team Lead: Tim Myrick, **Inspection Date:** 11/07/2022

Date Reported: 01/03/2011
Priority: (Inactive) (Inactive) G - General/ Preventive maintenance
Type of Work: Repair (General)
Status: Monitor
Component: Substructure

Deficiency Description

Caps have a few minor cracks, spalls, and delaminated areas.

Remarks



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Location: 7.59 N JCT US 412

Team Lead: Tim Myrick, **Inspection Date:** 11/07/2022

Date Reported: 11/20/2020
Priority: D- Routine
Type of Work: Repair (General)
Status: Monitor
Component: Deck

Deficiency Description

Asphalt wearing surface has several cracks.

Remarks

Date Reported: 11/20/2020
Priority: C - Important
Type of Work: (Inactive) (Inactive) 1 - Clean
Status: Monitor
Component: Channel

Deficiency Description

Large tree under span 2 & 3.

Remarks



B3 drift



Drift span 2&3



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Team Lead: Tim Myrick, **Inspection Date:** 11/07/2022

Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	
A-56 - Joint Cleaning/Flushing Needed	
A-57 - Beam End and Bearing Paint Needed	
A-58 - Cap Cleaning/Flushing Needed	
A-59 - Joint Repair Needed	
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	
A-62 - Hydro and LMC Advised	



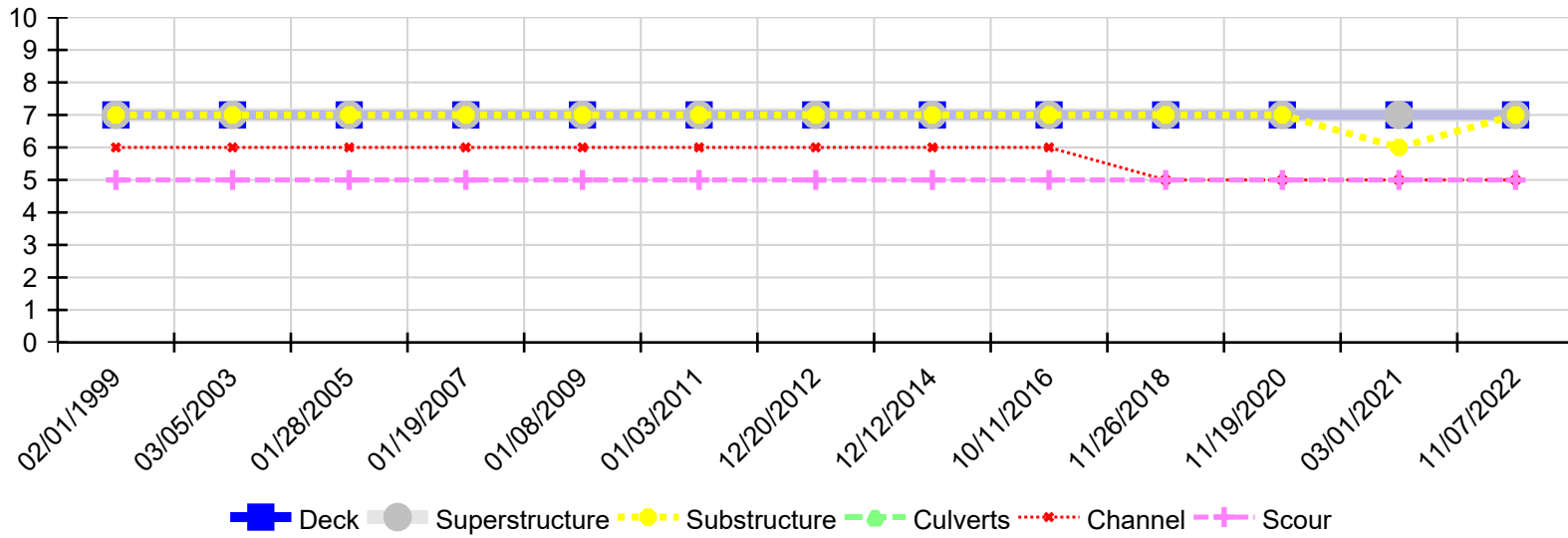
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Location: 7.59 N JCT US 412

Team Lead: Tim Myrick, Inspection Date: 11/07/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
11/07/2022	7	7	7	N	5	5
03/01/2021	7	7	6	N	5	5
11/19/2020	7	7	7	N	5	5
11/26/2018	7	7	7	N	5	5
10/11/2016	7	7	7	N	6	5
12/12/2014	7	7	7	N	6	5
12/20/2012	7	7	7	N	6	5
01/03/2011	7	7	7	N	6	5
01/08/2009	7	7	7	N	6	5
01/19/2007	7	7	7	N	6	5
01/28/2005	7	7	7	N	6	5
03/05/2003	7	7	7	N	6	5
02/01/1999	7	7	7	N	6	5