



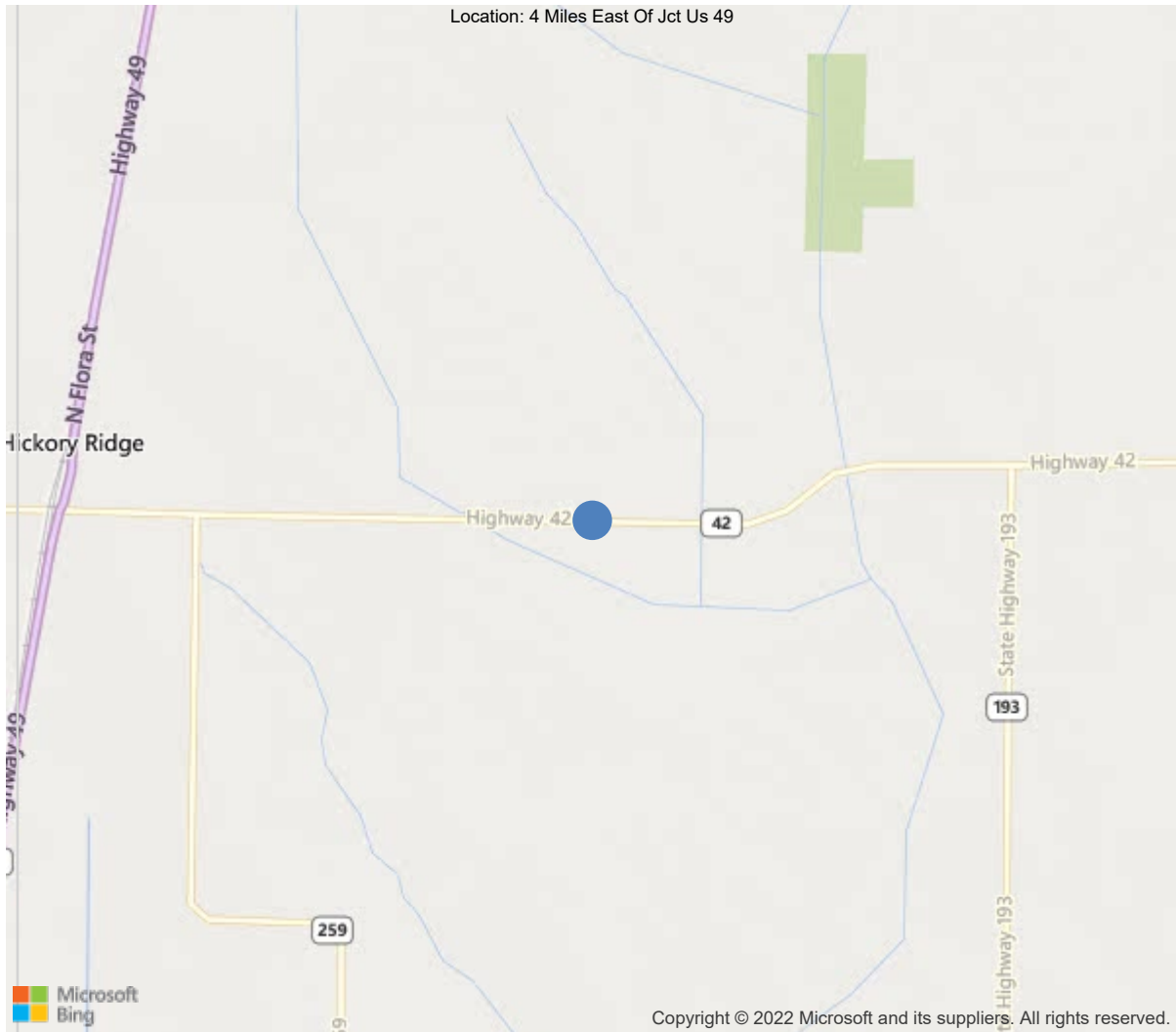
Latitude:35.39641, Longitude:-90.94949

Route:42 Section:02 Log:5.09

Arnold Road ID:19x42x2xA, Arnold Log mile:5.092

District 01, 37 - Cross County

Owner: 1 - State Highway Agency



35.39641, -90.94949



Asset #01808(Other Special Recurring)

Sh-42/Sec-2/L-5.09 over Drainage Ditch

Location: 4 Miles East Of Jct Us 49

Team Lead: Myron Futrell, Inspection Date: 01/05/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	01808
(5) Inventory Route	1
(2) Highway Agency District	01 - District 01
(3) County Code	37 - Cross County
(4) Place Code	0
(6) Features Intersected	Drainage Ditch
(7) Facility Carried	Sh-42/Sec-2/L-5.09
(9) Location	4 Miles East Of Jct Us 49
(11) Mile Point	5.09 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.39641
(17) Longitude	-90.94949
(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	1
(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	1934
(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	519
(30) Year of ADT	2019
(109) Truck ADT	7 %
(19) Bypass, Detour Length	10 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	29 ft
(49) Structure Length	29 ft
(50) Curb or Sidewalk Width	
Left	0.7 ft
Right	0.7 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	25.7 ft
(32) Approach Roadway Width (W/Shoulders)	21 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	24 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	0 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	7 - Rural Major Collector
(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	7
(60) Substructure	6
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2 - M 13.5 / H 15
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	48
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	29
(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	7
(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	1 - Inspected feature meets current
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	4 - Bridge foundations determined to
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	602
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	01/11/2021		
(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 #01808(Other Special Recurring)

District: 01, County: 37

Team Lead: Myron Futrell, Inspection Date: 01/05/2022

60 - Substructure (6)

01/09/2017 lowered substructure from 6 to 5 due to decay of abutment caps at splices.

01/24/2020 lowered substructure from 5 to 3 due to severe section loss to caps and loss of bearing.

08/18/2021-Raised substructure form 3 to 6 due to cap replacement and splicing of piles.

A-46 - Asset Files

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General Observation (False)

Drawing numbers:3571,3582,2150,2386.

Special inspection to monitor scour at abutments and substructure decay.

Abutment #2 left approach shoulder has one foot deep small hole eroded at bridge end.

8/19/2021-Both caps have been replaced overlay has been milled and resurfaced.

1/5/2022-Special inspection to monitor abutments, no noteworthy change from previous inspection.

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	707	335	346	26	0
1090	Exposed Rebar	SF	6	0	0	6	0
1120	Efflorescence/Rust Staining	SF	366	0	346	20	0
510	Wearing Surfaces	SF	638	638	0	0	0
<p>(12) Deck soffit-under surface has transverse hairline cracks spaced two feet apart with half with light efflorescence and twenty square feet of rust stains.</p> <p>Deck soffit-under surface has areas of spalling at abutments with exposed rebar 5% section loss six feet total.</p> <p>(510-12) 8/19/2021-Overlay was milled off and replaced at time of cap replacement.</p>							

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	140	110	30	0	0
1000	Corrosion	LF	30	0	30	0	0
515	Steel Protective Coating	SF	883	0	858	0	25
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	858	0	858	0	0
3440	Effectiveness (Steel Protective Coatings)	LF	25	0	0	0	25
(107) Girder paint is oxidized with loss of color pigment and twenty square feet of bare steel.							



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Location: 4 Miles East Of Jct Us 49

Team Lead: Myron Futrell, Inspection Date: 01/05/2022

Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	62	62	0	0	0
(215) Abutment #1 and #2 bags that were placed to prevent scour of slope have deteriorated. Material is crumbling and falling apart, and is beginning to allow small voids under abutment caps.							
228	Timber Pile	EA	9	3	0	6	0
1140	Decay/Section Loss	EA	6	0	0	6	0
(228) Abutment #1 pile # 2,3,5 are spliced and encased in concrete. Abutment #1 pile # 6 is spliced no encasement (3 1/2" x 12" x 5'-4" timber between cap and pile). Abutment #2 pile #7 is spliced and encased in concrete (now buried, not visible). Abutment #2 piles #2, 6 are spliced no encasement (1'x 1' x 3 1/2" timber between cap and pile).							
235	Timber Pier Cap	LF	72	72	0	0	0
(235) 8/18/2021-Caps have been replaced							

60 - Substructure (6)

Comment: 01/09/2017 lowered substructure from 6 to 5 due to decay of abutment caps at splices.
01/24/2020 lowered substructure from 5 to 3 due to severe section loss to caps and loss of bearing.
08/18/2021-Raised substructure form 3 to 6 due to cap replacement and splicing of piles.



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Location: 4 Miles East Of Jct Us 49

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Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Side view / elevation



Asset #01808(Other Special Recurring)

Sh-42/Sec-2/L-5.09 over Drainage Ditch

Location: 4 Miles East Of Jct Us 49

Team Lead: Myron Futrell, **Inspection Date:** 01/05/2022

Maintenance Needs

Date Reported: 01/16/2014
Priority: D- Routine
Type of Work: Repair (General)
Status: Monitor
Component: Channel

Deficiency Description

Abutment #1 and #2 bags that were placed to prevent scour of slope have deteriorated. Material is crumbling and falling apart and is beginning to allow small voids under caps.

7/15/2021-Bags have been pulled away from abutments at time of inspection.

Remarks



Typical void behind cap



Abutment #1



Abutment #2

Date Reported: 07/19/2021
Priority: C - Important
Type of Work: Repair (General)
Status: Forward State
Component: Approach

Deficiency Description

Abutment #2 left approach shoulder has a one-foot deep small hole eroded at bridge end.

Remarks



Hole in abutment #2 left approach shoulder at bridge end.



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Sh-42/Sec-2/L-5.09 over Drainage Ditch

Location: 4 Miles East Of Jct Us 49

Team Lead: Myron Futrell, **Inspection Date:** 01/05/2022

Routine Maintenance

Check Box Maintenance Items

Data Field	Value
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 - Hydo and LMC Advised	



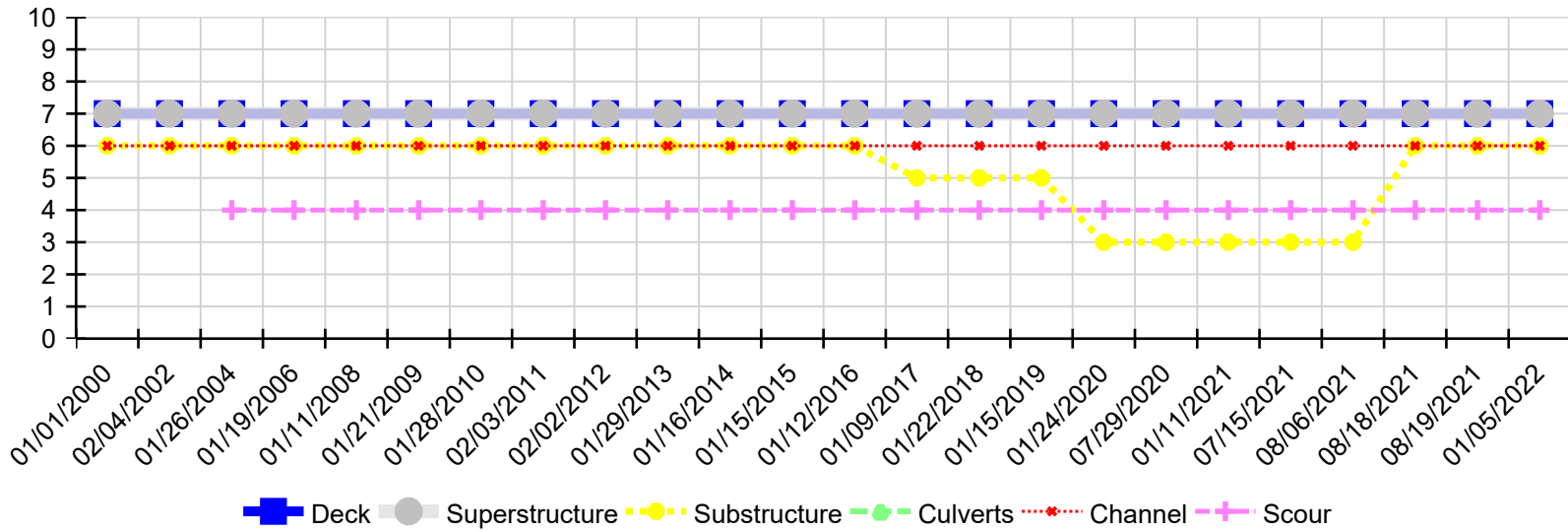
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Location: 4 Miles East Of Jct Us 49

Team Lead: Myron Futrell, Inspection Date: 01/05/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
01/05/2022	7	7	6	N	6	4
08/19/2021	7	7	6	N	6	4
08/19/2021	7	7	6	N	6	4
08/18/2021	7	7	6	N	6	4
08/06/2021	7	7	3	N	6	4
07/15/2021	7	7	3	N	6	4
01/11/2021	7	7	3	N	6	4
07/29/2020	7	7	3	N	6	4
01/24/2020	7	7	3	N	6	4
01/15/2019	7	7	5	N	6	4
01/22/2018	7	7	5	N	6	4
01/09/2017	7	7	5	N	6	4
01/12/2016	7	7	6	N	6	4
01/15/2015	7	7	6	N	6	4
01/16/2014	7	7	6	N	6	4
01/29/2013	7	7	6	N	6	4
02/02/2012	7	7	6	N	6	4
02/03/2011	7	7	6	N	6	4
01/28/2010	7	7	6	N	6	4
01/21/2009	7	7	6	N	6	4
01/11/2008	7	7	6	N	6	4
01/19/2006	7	7	6	N	6	4
01/26/2004	7	7	6	N	6	4
02/04/2002	7	7	6	N	6	N
01/01/2000	7	7	6	N	6	N