



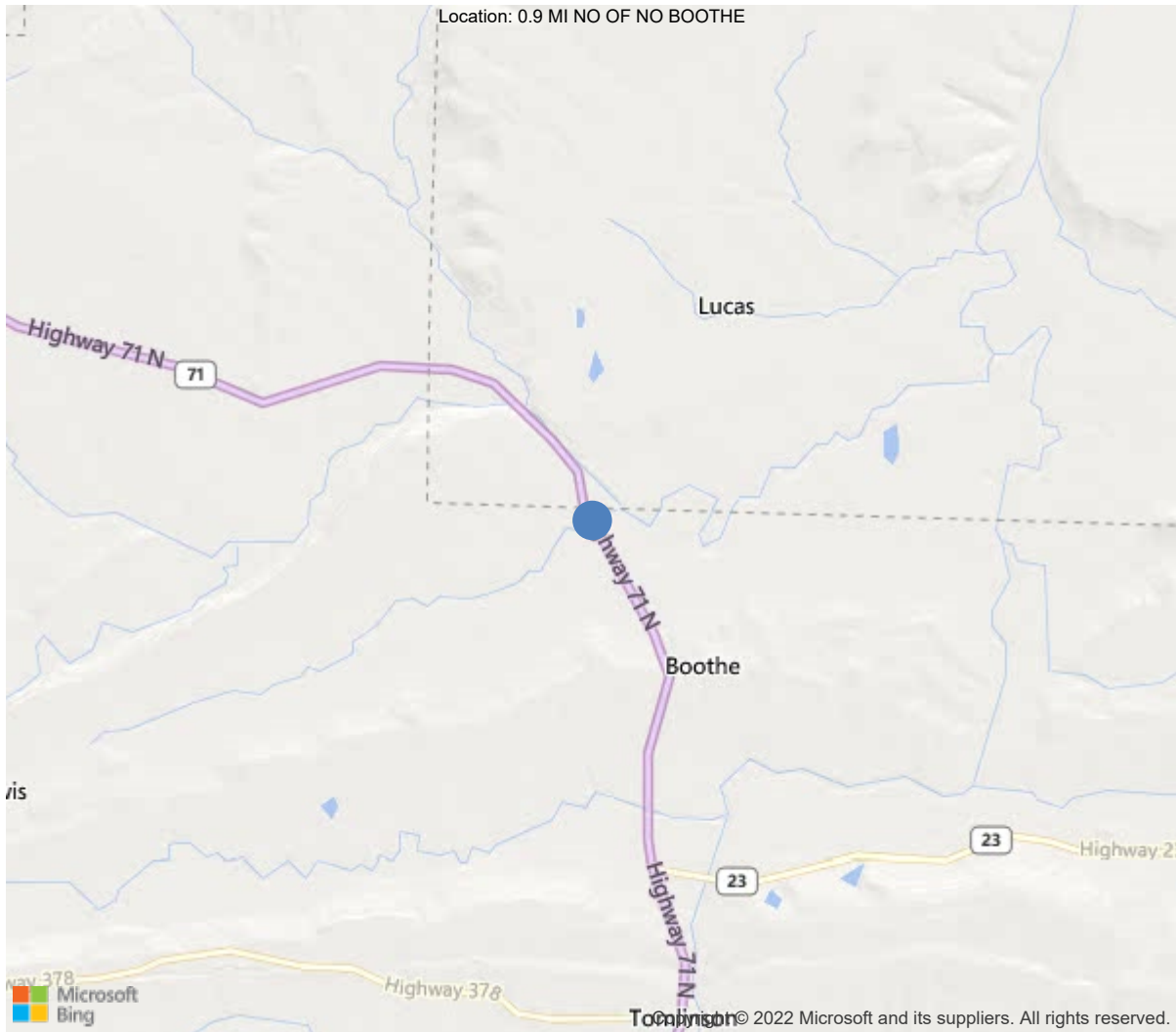
Latitude:35.05425, Longitude:-94.12716

Route:71 Section:10 Log:34.49

Arnold Road ID:63x71x10xA, Arnold Log mile:34.489

District 04, 127 - Scott County

Owner: 1 - State Highway Agency



35.05425, -94.12716



Asset #00315(Routine)

US Highway 71 over Carnes Creek-Scott Co.

Location: 0.9 MI NO OF NO BOOTHE

Team Lead: Jeff Jones, Inspection Date: 05/20/2021

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	00315
(5) Inventory Route	1
(2) Highway Agency District	04 - District 04
(3) County Code	127 - Scott County
(4) Place Code	0
(6) Features Intersected	Carnes Creek-Scott Co.
(7) Facility Carried	US Highway 71
(9) Location	0.9 MI NO OF NO BOOTHE
(11) Mile Point	34.49 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.05425
(17) Longitude	-94.12716
(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	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	2 - Integral Concrete (separate non-mo
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1928
(106) Year Reconstructed	1981
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	5100
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	15 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	33 ft
(49) Structure Length	35 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	44 ft
(52) Deck Width Out to Out	46.8 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	44.9 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	1
(26) Functional Class	2 - Rural Principal Arterial -
(100) Defense Highway	2 - The inventory route is on
(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	6
(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	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	6
(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	8 - 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	6222
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	05/20/2021		
(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 #00315(Routine)

District: 04, County: 127

Team Lead: Jeff Jones, Inspection Date: 05/20/2021

A-46 - Asset Files

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General Observation (False)

05/20/2021 - JCJ & TJL - Routine Inspection conducted this date.

06/24/2019 - EJW & JPW - Underwater Type II Inspection conducted on this date. Wading and probing indicate the footings have cover. No apparent scour problems at this inspection.

US Highway 71 over Carnes Creek-Scott Co.

Location: 0.9 MI NO OF NO BOOTHE

Team Lead: Jeff Jones, **Inspection Date:** 05/20/2021

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	683	644	39	0	0
1080	Delamination/Spall/Patched Area	SF	15	0	15	0	0
1120	Efflorescence/Rust Staining	SF	24	0	24	0	0
510	Wearing Surfaces	SF	683	220	458	5	0
3210	Delam/Spall/Patched Area/Pothole	SF	15	0	15	0	0
3220	Crack (Wearing Surface)	SF	448	0	443	5	0
<p>(16) This bridge is a concrete deck girder with a rigid concrete wearing surface that has been widened with concrete slab spans along both edges of the structure.</p> <p>Driving surface of the deck -</p> <ul style="list-style-type: none"> -Map cracking on the wearing surface that has been sealed with epoxy. -The longitudinal construction joints where the structure was widened has deteriorated joint sealant. -There is a 3' X 5' patched area at mid-span of the Northbound lane that appears to be holding during this inspection. <p>Deck Soffit -</p> <ul style="list-style-type: none"> -The undersurface of the deck has one transverse crack located 5' North of Bent # 1 and one transverse crack located 10' South of Bent # 2, both with light efflorescence. <p>05/20/2021 -JCJ & TJL - There are wooden forms in place under the mid-span of Bay # 2 from apparent recent repairs by maintenance forces.</p> <ul style="list-style-type: none"> -There are isolated areas of shallow honeycomb from the construction process. <p>History Notes -</p> <p>05/20/2021 -JCJ & TJL - Repaired during this inspection - The undersurface of the deck appears to have hairline map cracking with light efflorescence below the patched area with no apparent full depth failures during this inspection.</p>							
38	RC Slab	SF	957	665	290	2	0
1080	Delamination/Spall/Patched Area	SF	27	0	27	0	0
1090	Exposed Rebar	SF	2	0	0	2	0
1120	Efflorescence/Rust Staining	SF	8	0	8	0	0
1130	Cracking (RC and Other)	SF	155	0	155	0	0
1190	Abrasion/Wear (PSC/RC)	SF	100	0	100	0	0
<p>(38) This bridge is a concrete deck girder with a rigid concrete wearing surface that has been widened with concrete slab spans along both edges of the structure.</p> <p>Driving surface of the slab -</p> <ul style="list-style-type: none"> -The driving surface of the slab span portions of the deck have areas with light abrasion. -Hairline map cracking with light abrasion along the longitudinal construction joints. -The longitudinal construction joints where the structure was widened has deteriorated joint sealant. <p>Slab Soffit -</p> <ul style="list-style-type: none"> -Longitudinal cracks and delaminated areas along the edges of the deck visible from the undersurface of the deck. -No drip groove along the edges of this structure. -Shallow spalling with 4 small areas of exposed reinforcing steel adjacent to Bent # 2 approximately 5' Right of Girder # 3. 							

US Highway 71 over Carnes Creek-Scott Co.

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Team Lead: Jeff Jones, **Inspection Date:** 05/20/2021

Deck

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Team Lead: Jeff Jones, **Inspection Date:** 05/20/2021

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
110	Reinforced Concrete Open Girder/Beam	LF	105	81	24	0	0
1130	Cracking (RC and Other)	LF	24	0	24	0	0
(110) -Minor honeycomb in the stems from the construction process. -Hairline vertical shrinkage/flexure cracks at variable spacing.							

US Highway 71 over Carnes Creek-Scott Co.

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Substructure

[illegible]



Asset #00315(Routine)

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Location: 0.9 MI NO OF NO BOOTHE

Team Lead: Jeff Jones, Inspection Date: 05/20/2021

Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation.



Approach roadway facing North.



Deck. Typical.



Deck soffit. Typical.



Deck soffit. Typical.



Bent # 2 large concrete delamination adjacent to Girder # 1.



Typical driving surface of the deck.



Delaminated concrete on the Lt edge of the slabs
undersurface.



Elevation



Bent # 1 vertical cracking in the abutment stem.



Roadway



Bent # 1 Rt shallow spalling in the bearing area adjacent to Girder # 3.



Lt slab crack with efflorescence.



Typical driving surface of the deck.



Bay # 2 cracking with efflorescence buildup.



Spalling with exposed reinforcing steel adjacent to Bent # 2 approximately 5' Rt of Girder # 3.



Failing joint sealant between the slab and wearing surface.



Northbound lane flex patch still solid.



Bent # 2 Rt spalling adjacent to Girder # 3.



There is a 3' X 5' patched area at mid-span of Northbound lane appears to be holding during this inspection.



Deck. Typical.



Deteriorated and missing sealant in the longitudinal construction joint.



Deck soffit. Typical. Timber form work left in place.



Driving surface of the slab span portion of the deck. Typical.



Hairline map cracking with light abrasion along the longitudinal construction joints.



Delaminated area in the Right slab soffit.



Exposed reinforcing steel in the Right side of the slab span adjacent to Bent # 2.



Right slab soffit. Typical.



Left edge of slab soffit. Delaminated areas.



Superstructure. Typical.



Superstructure. Typical.



Superstructure. Typical.



Right side of Bent # 1. Typical.



Left side of Bent # 1. Typical.



Right side of Bent # 2. Typical.



Left side of Bent # 2. Typical.



Bent # 1. Light abrasion with vertical cracks that have efflorescence.



Left parapet wall. Typical.



Minor 4" spall with no exposed reinforcing steel in the outside face of the Right parapet located approximately 6' from the North abutment.



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US Highway 71 over Carnes Creek-Scott Co.

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Team Lead: Jeff Jones, Inspection Date: 05/20/2021

Maintenance Needs

Date Reported: 07/02/2015
Priority: D- Routine
Type of Work: Repair (General)
Status: Open
Component: Element

Deficiency Description

Abutments

Abutments have minor spalling and delaminated areas in the top of the stem wall adjacent to the exterior girders.

Remarks



Bent # 1 Right - shallow spalling adjacent to Girder # 3.



Bent # 2 Right - spalling adjacent to Girder # 3.



Spalling in the Right side of Bent # 1.



Spalling in the Right side of Bent # 2.

Date Reported: 07/02/2015
Priority: D- Routine
Type of Work: Repair (General)
Status: Open
Component: Element

Deficiency Description

Deck

The sealant in the longitudinal construction joints is deteriorated and missing in locations.

Remarks



Failing joint sealant between the slab and wearing surface.



Deteriorated and Missing longitudinal construction joint sealant.

Date Reported: 05/21/2021
Priority: D- Routine
Type of Work: Repair (General)
Status: Open
Component: Superstructure

Deficiency Description

Slab soffit - Right side of structure:

There are spalls with exposed reinforcing steel in the Right slab soffit adjacent to Bent # 2.

Remarks



There are spalls with exposed reinforcing steel in the Right slab soffit adjacent to Bent # 2.

Date Reported: 05/21/2021
Priority: D- Routine
Type of Work: Repair (General)
Status: Open
Component: Element

Deficiency Description

The exterior edges of the slab soffit has longitudinal delaminated areas.

Remarks



Right slab soffit. Delaminated areas.



Left slab soffit. Delaminated areas.



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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	



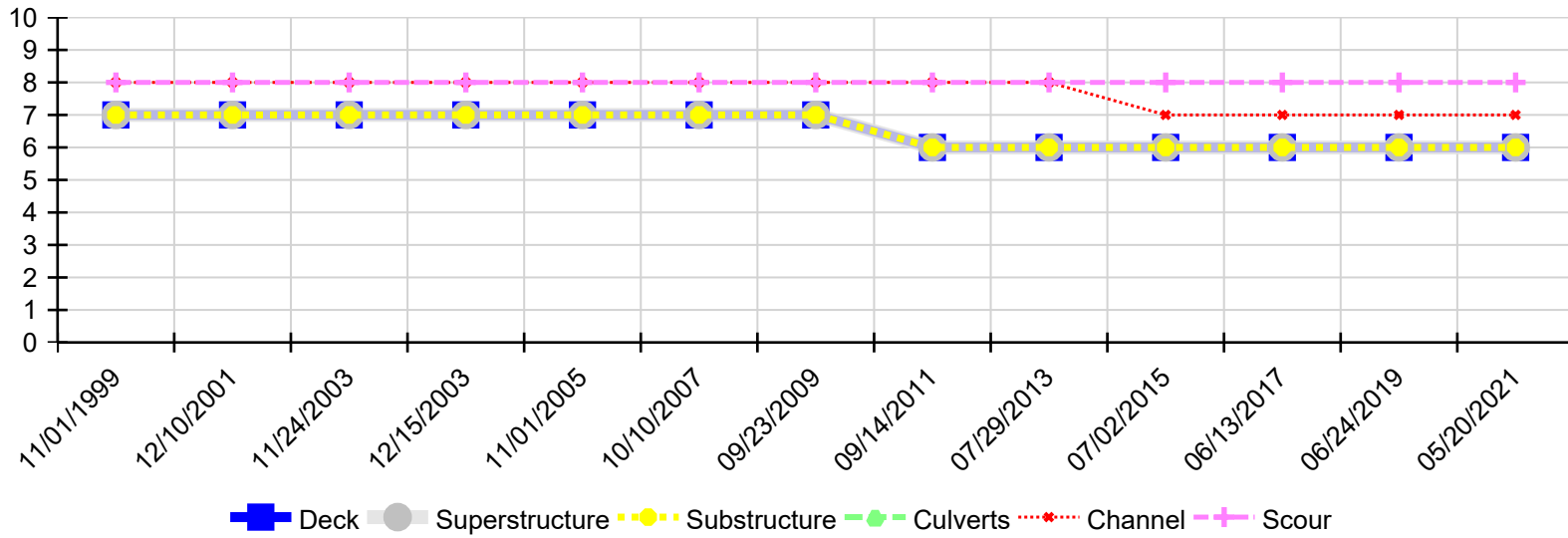
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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
05/20/2021	6	6	6	N	7	8
06/24/2019	6	6	6	N	7	8
06/13/2017	6	6	6	N	7	8
07/02/2015	6	6	6	N	7	8
07/29/2013	6	6	6	N	8	8
09/14/2011	6	6	6	N	8	8
09/23/2009	7	7	7	N	8	8
10/10/2007	7	7	7	N	8	8
11/01/2005	7	7	7	N	8	8
12/15/2003	7	7	7	N	8	8
11/24/2003	7	7	7	N	8	8
12/10/2001	7	7	7	N	8	8
11/01/1999	7	7	7	N	8	8