



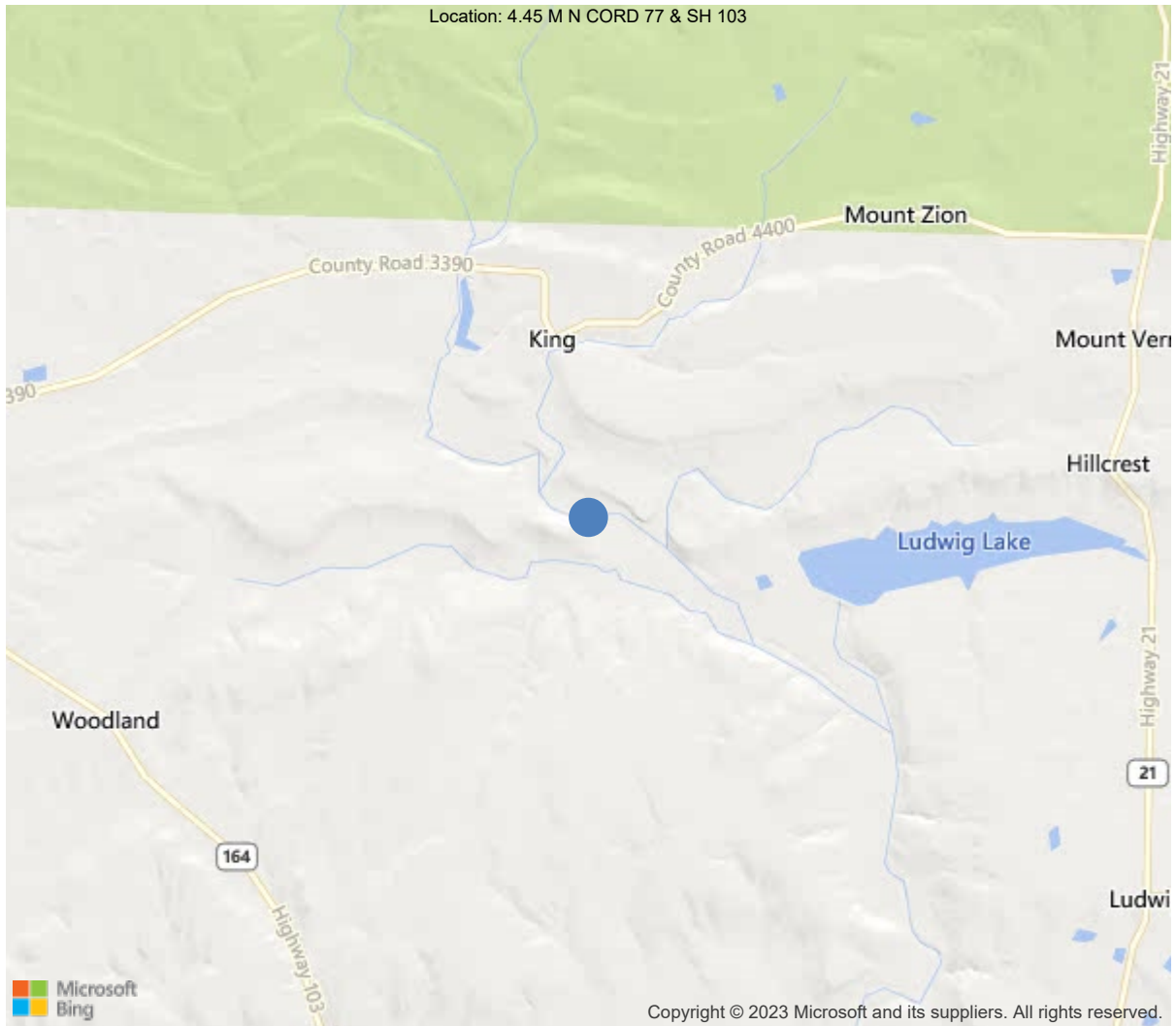
Latitude:35.53847, Longitude:-93.47806

Route:77 Section:00 Log:4.449

Arnold Road ID:36xCOUNTY3451RDx2xA, Arnold Log mile:2.991

District 08, 71 - Johnson County

Owner: 2 - County Highway Agency



35.53847, -93.47806



Asset #04145(Routine)

CR 3451 over Spadra Creek

Location: 4.45 M N CORD 77 & SH 103

Team Lead: Kevin Milligan, Inspection Date: 02/13/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	04145
(5) Inventory Route	1
(2) Highway Agency District	08 - District 08
(3) County Code	71 - Johnson County
(4) Place Code	0
(6) Features Intersected	Spadra Creek
(7) Facility Carried	CR 3451
(9) Location	4.45 M N CORD 77 & SH 103
(11) Mile Point	4.449 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.538472222222
(17) Longitude	-93.478055555556
(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	5
(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	1958
(106) Year Reconstructed	0
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	1
Under	0
(29) Average Daily Traffic	74
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	5 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	28 ft
(49) Structure Length	140 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	14.1 ft
(52) Deck Width Out to Out	15.5 ft
(32) Approach Roadway Width (W/Shoulders)	18 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	99.9 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	9 - Rural Local
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exists
(102) Direction of Traffic	3 - One lane bridge for 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	2 - County Highway Agency
(22) Owner	2 - County 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	7
(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	56
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	33
(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	2
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	6
(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	8 - Bridge foundations determined t
PROPOSED IMPROVEMENTS	
(75) Type of Work	31 - Replacement of bridge or
(76) Length of Structure Improvement	169 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 109
(96) Total Project Cost	\$ 375
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	182
(115) Year of Future ADT	2007

INSPECTIONS *			
(90) Inspection Date	02/13/2023		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
<p>* 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.</p>			



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

Deck has asphalt that over lays approximately 10ft at the abutments.

There is minor abrasion throughout deck, there is exposed aggregate throughout the deck but it is still attached.

Joints are impacted with dirt and bent 4 has 2 minor spalls along the edge of the joint.

59 - Superstructure (7 - GOOD CONDITION - some minor problems.)

Edge of slab at the bents have vertical and diagonal cracks on both sides of the bridge.

Span 3 soffit has 1 area of exposed reinforcing steel.

Span 4 has a large spall with exposed reinforcing steel, reinforcing steel has no section loss.

Unable to access span 5 due to the vertical clearance.

60 - Substructure (7 - GOOD CONDITION - some minor problems.)

Abutment 1 has approximately 1ft of undermining under abutment cap, this is approximately 8ft in length, also there is 1 exposed concrete pile.

Spans 1 and 2 is approximately 4ft deep around bent 2 but there is no undermining.

Pier walls have minor abrasion along the flow lines.

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.)

GRAVEL, ROCK & SOLID ROCK

A-46 - Asset Files

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A-B.C.11 - B.C.11 Scour Condition Rating (New NBIS) (8 - Insignificant scour.)

Spans 1 and 2 is approximately 4ft deep around bent 2 but there is no undermining.



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Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4

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Comment: Deck has asphalt that over lays approximately 10ft at the abutments.

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				CS1	CS2	CS3	CS4

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Comment: Abutment 1 has approximately 1ft of undermining under abutment cap, this is approximately 8ft in length, also there is 1 exposed concrete pile.

Spans 1 and 2 is approximately 4ft deep around bent 2 but there is no undermining.

Pier walls have minor abrasion along the flow lines.

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.)

Comment: GRAVEL, ROCK & SOLID ROCK



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Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation (Drone)



Over head deck (Drone)



Elevation.



Inventory.



Spans 1 and 2 is approximately 4ft deep around bent 2 but there is no undermining.



Spans 1 and 2 is approximately 4ft deep around bent 2 but there is no undermining.



Bent 2 has vertical and diagonal cracks in the edge of slab on the left side, this is typical at all bents.



Abutment 1 has approximately 1ft of undermining under abutment cap, this is approximately 8ft in length, also there is 1 exposed concrete pile.



Pier walls have minor abrasion along the flow lines.



Span 3 soffit has 1 area of exposed reinforcing steel.



Bent 4 has vertical and diagonal cracks in the edge of slab on the right side, left side is typical.



Span 4 has a large spall with exposed reinforcing steel, reinforcing steel has no section loss.



Bent 5 has diagonal cracks in the edge of slab on the right side, the left side is typical.



Unable to access span 5.



Joints are impacted with dirt.



Minor abrasion throughout deck, there is exposed aggregate throughout the deck but it is still attached.



Bent 4 has 2 minor spalls along the edge of the joint.



Spans 1 and 5 has asphalt that lays approximately 10ft onto the deck.



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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	



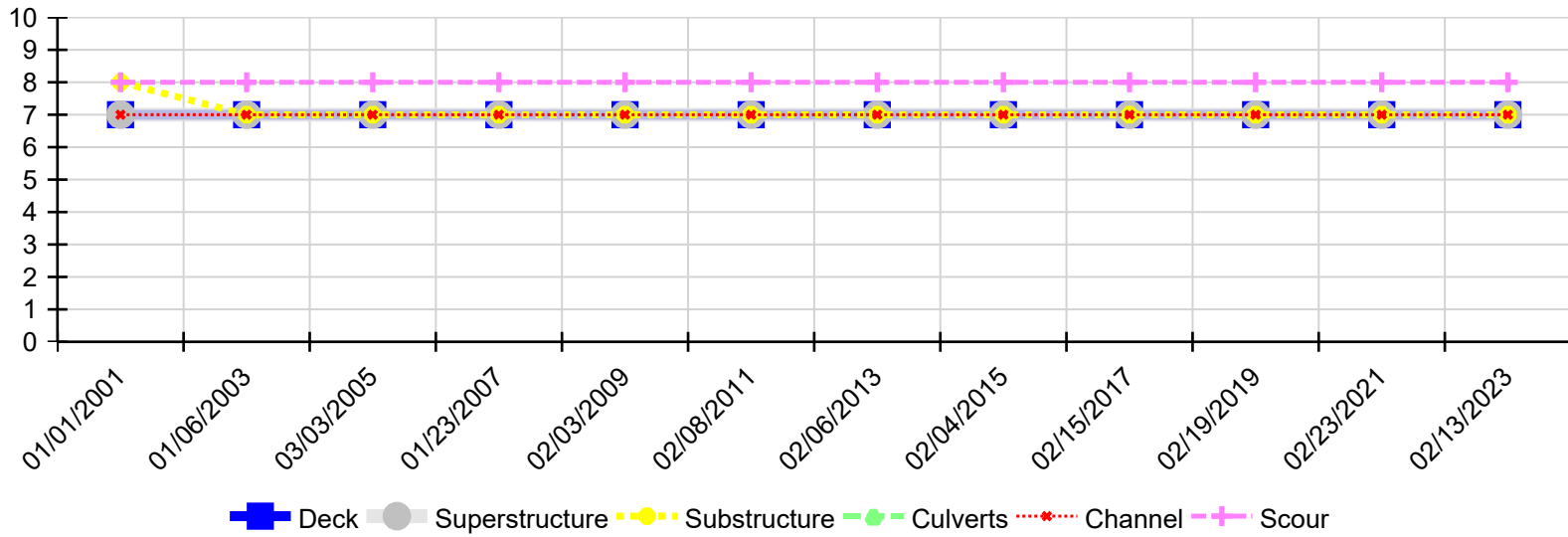
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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
02/13/2023	7	7	7	N	7	8
02/23/2021	7	7	7	N	7	8
02/19/2019	7	7	7	N	7	8
02/15/2017	7	7	7	N	7	8
02/04/2015	7	7	7	N	7	8
02/06/2013	7	7	7	N	7	8
02/08/2011	7	7	7	N	7	8
02/03/2009	7	7	7	N	7	8
01/23/2007	7	7	7	N	7	8
03/03/2005	7	7	7	N	7	8
01/06/2003	7	7	7	N	7	8
01/01/2001	7	7	8	N	7	8