



Latitude:35.41452, Longitude:-93.38456

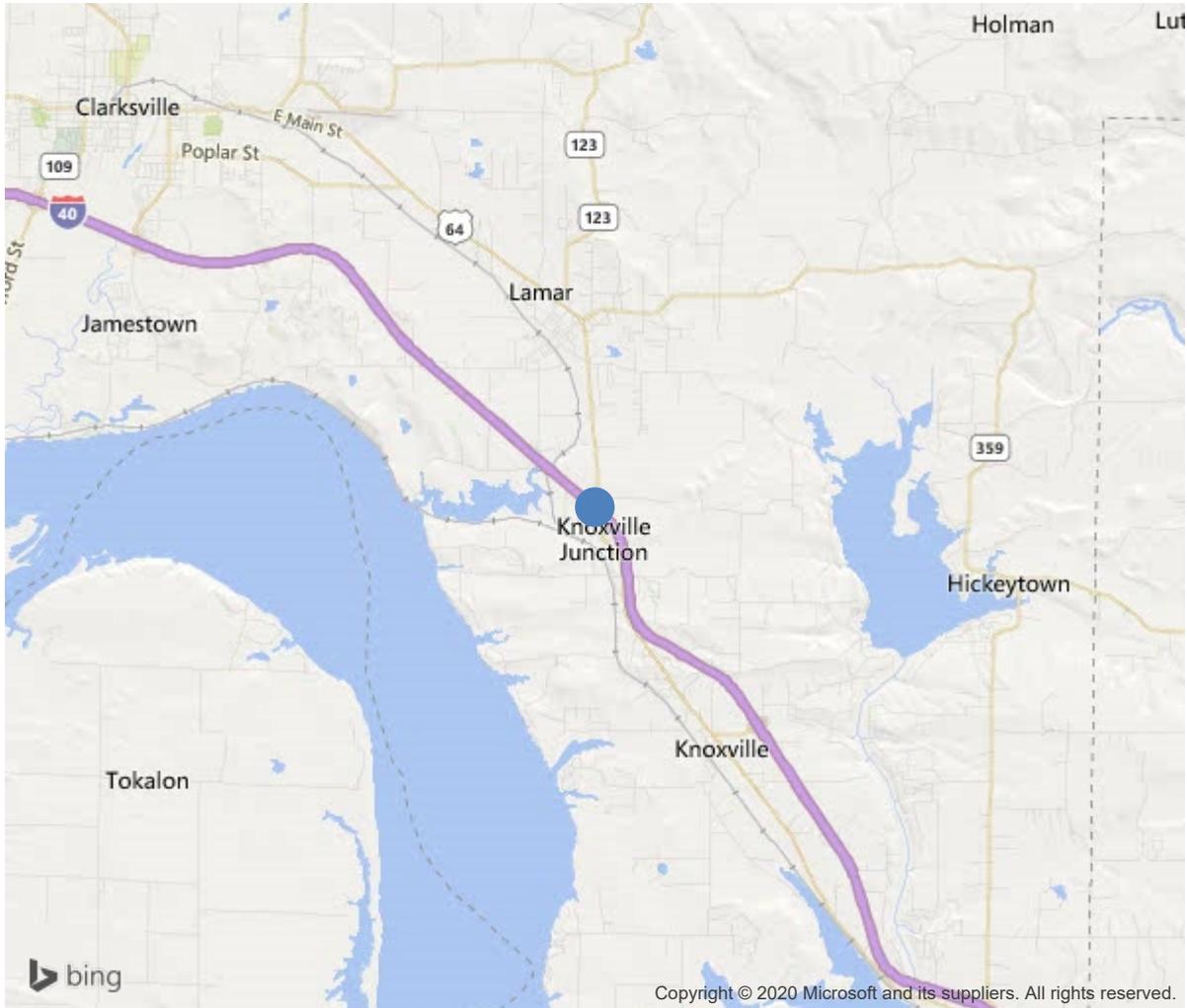
Route:40 Section:21 Log:63.83

Arnold Road ID:36x40x21xB, Arnold Log mile:220.678

District 08, Johnson County

Owner: 1-State Highway Agency

Jct US 64 & I-40



35.41452, -93.38456



Bridge #A6868(Routine)

I-40 - SEC 21, WB over US 64 - SEC 5

Location: Jct US 64 & I-40

Team Lead: Kevin Milligan Inspection Date: March 02, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	A6868
(5) Inventory Route	40
(2) Highway Agency District	08
(3) County Code	71-Johnson County, Arkansas
(4) Place Code	0
(6) Features Intersected	US 64 - SEC 5
(7) Facility Carried	I-40 - SEC 21, WB
(9) Location	Jct US 64 & I-40
(11) Mile Point	63.83 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000040210
(16) Latitude	35.41452
(17) Longitude	-93.38456
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	42
Material	4-Steel continuous
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	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	1-Monolithic Concrete (concurrently placed
Type of Membrane	0-None
Type of Deck Protection	1-Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	2003
(106) Year Reconstructed	0
(42) Type of Service	11
On	1-Highway
Under	1-Highway, with or without pedestrian
(28) Lane	
On	2
Under	2
(29) Average Daily Traffic	39251
(30) Year of ADT	2014
(109) Truck ADT	38 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	87 ft
(49) Structure Length	207 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	40 ft
(52) Deck Width Out to Out	43.2 ft
(32) Approach Roadway Width (W/Shoulders)	40 ft
(33) Bridge Median	0-No median
(34) Skew	38 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	41 ft
(53) Min Vert Clear Over Bridge Rdwy	99.9 ft
(54) Min Vert Underclear	17.75 ft
Ref:	
(55) Min Lat Underclear RT	20.5 ft
Ref:	
(56) Min Lat Underclear LT	19 ft
NAVIGATION DATA	
(38) Navigation Control	N-Not applicable, no waterway.
(111) Pier Protection	1-Navigation protection not requ
(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	1-Rural Principal Arterial - Int
(100) Defense Highway	1-The inventory route is on a In
(101) Parallel Structure	L-The left structure of parallel
(102) Direction of Traffic	1 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0-N/A
(110) Designated National Network	1-The inventory route is part of the
(20) Toll	3-On free road. The structure is toll-
(21) Maintain	1-State Highway Agency
(22) Owner	1-State Highway Agency
(37) Historical Significance	5-Bridge is not eligible for the NRHP
CONDITION	
(58) Deck	7
(59) Superstructure	8
(60) Substructure	7
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	6-MS 18+Mod / HS 20+Mod
(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	3
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	7
(68) Deck Geometry	7
(69) Clearances, Vertical/Horizontal	9
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	8
(36) Traffic Safety Features	1111
A) Bridge Railings	1-Inspected feature meets currently a
B) Transitions	1-Inspected feature meets currently a
C) Approach Guardrail	1-Inspected feature meets currently a
D) Approach Guardrail Ends	1-Inspected feature meets currently a
(113) Scour Critical Bridges	N-Bridge not over waterway.
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	17392
(115) Year of Future ADT	2028
INSPECTIONS	
(90) Inspection Date	
(91) Frequency	24 Months
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	No 24
B: Underwater Inspection	No 0
C: Other Special Inspection	No 0



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Team Lead: Kevin Milligan, Inspection Date: March 02, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	8772	6700	1772	300	0
1080	Delamination/Spall/Patched Area	SF	2	0	2	0	0
1120	Efflorescence/Rust Staining	SF	120	0	120	0	0
1130	Cracking (RC and Other)	SF	1950	0	1650	300	0
(12)	KRM & ADC Date 3/3/2020 Deck has moderate longitudinal, and transverse cracking throughout the deck. Missing sawn joint at bent 2 right lane Approximately 47'. Bent 3 has approximately 78' missing in both lanes. Soffits have efflorescence cracks. MINOR CRACKING THROUGHOUT DECK. MINOR CRACKING W / EFFLOR IN OVERHANGS.						
107	Steel Open Girder/Beam	LF	1224	1224	0	0	0
515	Steel Protective Coating	SF	10200	10200	0	0	0
(107)	KRM & ADC Date 3/3/2020 No defects at this inspection.						
205	Reinforced Concrete Column	EA	6	6	0	0	0
(205)	KRM & ADC Date 3/3/2020 No defects at this inspection.						
215	Reinforced Concrete Abutment	LF	106	95	11	0	0
1120	Efflorescence/Rust Staining	LF	3	0	3	0	0
1130	Cracking (RC and Other)	LF	8	0	8	0	0
(215)	KRM & ADC Date 3/3/2020 Bent 1 abutment has efflorescence cracking, and minor vertical cracking in the back walls. MINOR VERTICAL CRACKING IN BACK WALLS.						
234	Reinforced Concrete Pier Cap	LF	110	110	0	0	0
(234)	KRM & ADC Date 3/3/2020 No defects at this inspection.						
300	Strip Seal Expansion Joint	LF	106	75	31	0	0
2350	Debris Impaction	LF	31	0	31	0	0
(300)	KRM & ADC Date 3/3/2020 Bents 1 and 4 joints has debris impaction.						
310	Elastomeric Bearing	EA	24	24	0	0	0
515	Steel Protective Coating	SF	36	36	0	0	0
(310)							



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**Team Lead:** Kevin Milligan, **Inspection Date:** March 02, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
KRM & ADC Date 3/3/2020 No defects at this inspection.							
321	Reinforced Concrete Approach Slab	SF	1872	0	1807	65	0
1130	Cracking (RC and Other)	SF	985	0	920	65	0
1190	Abrasion/Wear (PSC/RC)	SF	887	0	887	0	0
(321)							
KRM & ADC Date 3/3/2020 Approach slabs has moderate/large cracking throughout. West bound roadway has asphalt patches at the begging of the east approach.							
MINOR CRACKING THROUGHOUT SLABS. ONE MAJOR CRACK IN EACH SLAB.							
331	Reinforced Concrete Bridge Railing	LF	408	356	50	2	0
1080	Delamination/Spall/Patched Area	LF	2	0	0	2	0
1130	Cracking (RC and Other)	LF	50	0	50	0	0
(331)							
KRM & ADC Date 3/3/2020 Concrete bridge railing has scattered vertical cracking, there is a spall on the railing at bent 3 left side.							
COND. 1 - 412 LF - MINOR VERTICAL CRACKING. SLIDE PLATE MISSING FROM LT. RAIL AT ABUTMENT 4.							
COND. 2 - 2 LF - MINOR SPALL W / REBAR EXPOSED IN LT. RAIL AT PIER 3 DUE TO IMPACT DAMAGE.							



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**I-40 - SEC 21, WB over US 64 - SEC 5**

**Location: Jct US 64 & I-40**

**Team Lead: Kevin Milligan Inspection Date: March 02, 2020**

**Maintenance Needs**

**Date Reported:** 02/09/2012  
**Priority:** D- Routine  
**Type of Work:** None  
**Status:** Monitor  
**Component:**

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**Deficiency Description**

Left side, at east end of bridge.  
Slider plate missing from parapet wall.

Photo Included.

**Remarks**

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Slide Plate Missing on Rail at Abutment 4 Lt. Side.

**Date Reported:** 03/03/2020  
**Priority:** D- Routine  
**Type of Work:** Repair  
**Status:** Open  
**Component:** Deck

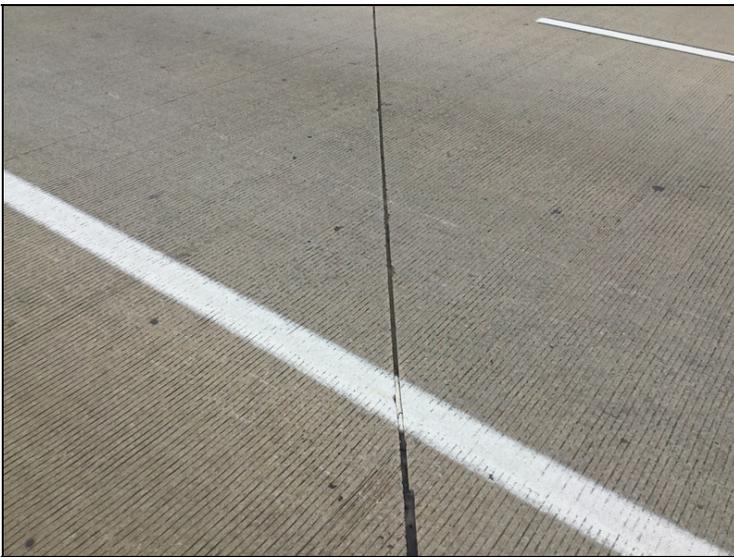
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### Deficiency Description

Missing sawn joint at bent 2 right lane Approximately 47'.  
Bent 3 has approximately 78' missing in both lanes.

### Remarks

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Sawn joints at bent 2 are missing in the right lane, approximately 47'



At bent 3 approximately 78' of missing sawn joints.



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**Team Lead:** Kevin Milligan **Inspection Date:** March 02, 2020

### Inspection Comments

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### Deck Notes

DECK - MINOR CRACKING THROUGHOUT DECK. MINOR CRACKING W / EFFLOR IN OVERHANGS.RAIL - COND. 1 - 406 LF - MINOR VERTICAL CRACKING. SLIDE PLATE MISSING FROM LT. RAIL AT ABUTMENT 4.COND. 2 - 2 LF - MINOR SPALL W / REBAR EXPOSED IN LT. RAIL AT PIER 3 DUE TO IMPACT DAMAGE.SLABS - MINOR CRACKING THROUGHOUT SLABS. ONE MAJOR CRACK IN EACH SLAB.

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### Superstructure Notes

KRM & ADC date 3/3/2020 Move the super up to an 8 due to no defects in the superstructure.  
7 BEAM WX STEEL MULTI BEAM - GOODBEARINGS - GOOD

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### Substructure Notes

ABUTMENTS - MINOR VERTICAL CRACKING IN BACK WALLS.COLUMNS - GOODCAPS - GOOD