



Latitude:35.41422, Longitude:-93.38458

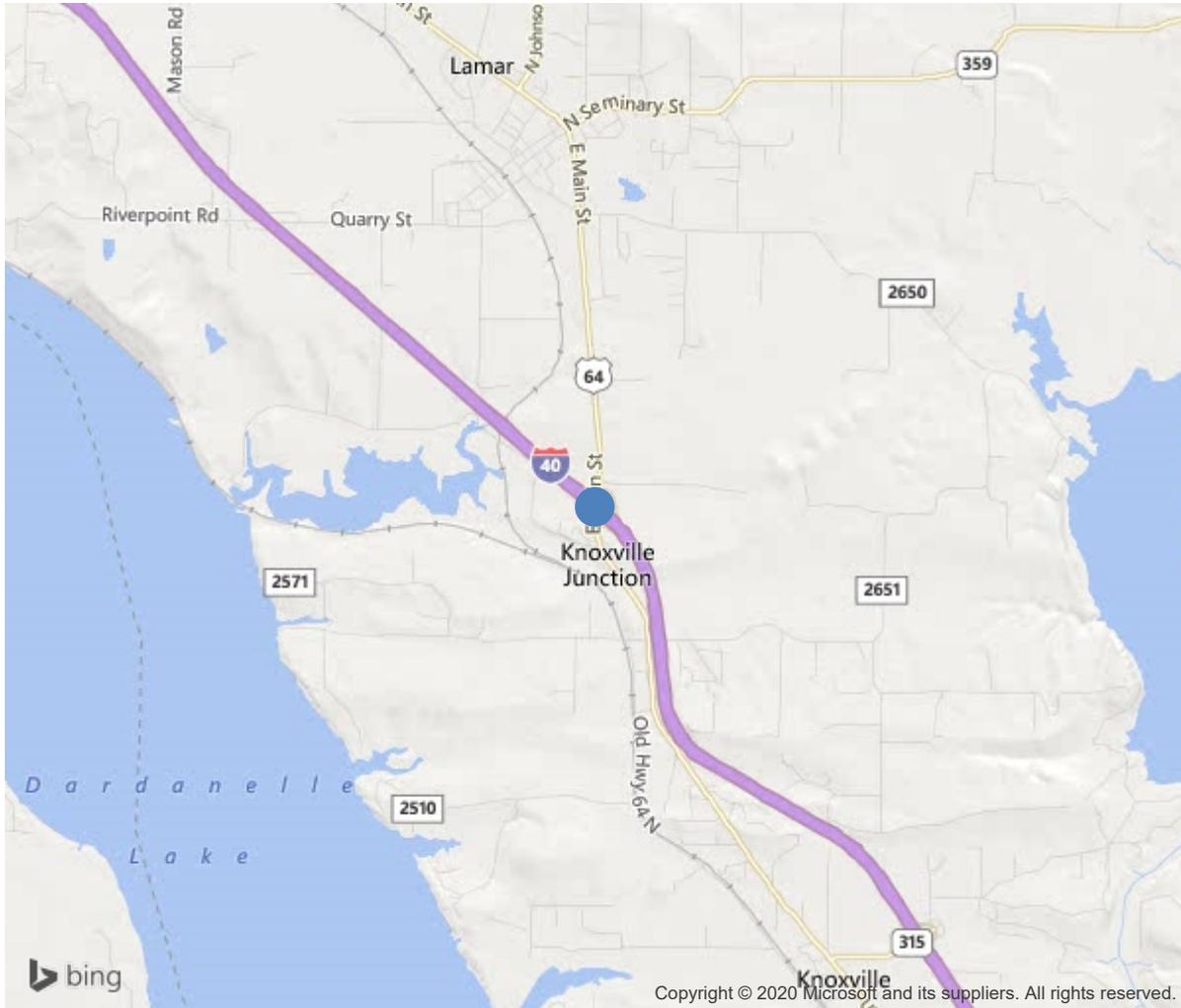
Route:40 Section:21 Log:63.83

Arnold Road ID:36x40x21xA, Arnold Log mile:63.764

District 08, Johnson County

Owner: 1-State Highway Agency

Jct .US 64 & I 40



35.41422, -93.38458



**Bridge #B6868(Routine)**  
**1-40 SEC 21 EB LNS 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	B6868
(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	1-40 SEC 21 EB LNS
(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	35.4142191296628
(17) Longitude	-93.3845766278108
(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	2004
(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	26000
(30) Year of ADT	2014
(109) Truck ADT	38 %
(19) Bypass, Detour Length	0 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	99.99 ft
(54) Min Vert Underclear	16 ft
Ref:	
(55) Min Lat Underclear RT	19 ft
Ref:	
(56) Min Lat Underclear LT	21 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	R-The right structure of paralle
(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	4-Historical significance is not dete
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	7
(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



ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	8805	7545	1260	0	0
1120	Efflorescence/Rust Staining	SF	120	0	120	0	0
1130	Cracking (RC and Other)	SF	1140	0	1140	0	0
(12)	KRM & ADC Date 3/3/2020 Deck has moderate cracking throughout and efflorescent cracking on the deck edges. Sawn joints are missing at bent 2,3 right lane. 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 There was no defects this inspection.						
205	Reinforced Concrete Column	EA	6	6	0	0	0
(205)	KRM & ADC Date 3/3/2020 There was no defects this inspection.						
215	Reinforced Concrete Abutment	LF	106	90	16	0	0
1120	Efflorescence/Rust Staining	LF	6	0	6	0	0
1130	Cracking (RC and Other)	LF	10	0	10	0	0
(215)	KRM & ADC Date 3/3/2020 Abutments have minor cracking and a few efflorescent cracks in the back wall. MINOR VERTICAL CRACKING IN BACK WALLS.						
234	Reinforced Concrete Pier Cap	LF	110	110	0	0	0
(234)	KRM & ADC Date 3/3/2020 There was no defects this inspection.						
300	Strip Seal Expansion Joint	LF	106	66	40	0	0
2350	Debris Impaction	LF	40	0	40	0	0
(300)	KRM & ADC Date 3/3/2020 Bent 4 has 20' debris impaction, this is typical at bent 1.						
310	Elastomeric Bearing	EA	24	24	0	0	0
515	Steel Protective Coating	SF	36	36	0	0	0
(310)	KRM & ADC Date 3/3/2020 There was no defects this inspection.						
321	Reinforced Concrete Approach Slab	SF	1728	1081	630	17	0



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1130 (321)	Cracking (RC and Other)	SF	647	0	630	17	0
KRM & ADC Date 3/3/2020 The approach has moderate/large cracks throughout. ONE MODERATE CRACK IN SLAB AT END OF BRIDGE.							
331	Reinforced Concrete Bridge Railing	LF	408	308	100	0	0
1120	Efflorescence/Rust Staining	LF	25	0	25	0	0
1130 (331)	Cracking (RC and Other)	LF	75	0	75	0	0
KRM & ADC Date 3/3/2020 Concrete railing has cracking, and cracking with efflorescence scattered throughout. MINOR VERTICAL & HORIZONTAL CRACKING THROUGHOUT.							



Typical under surface



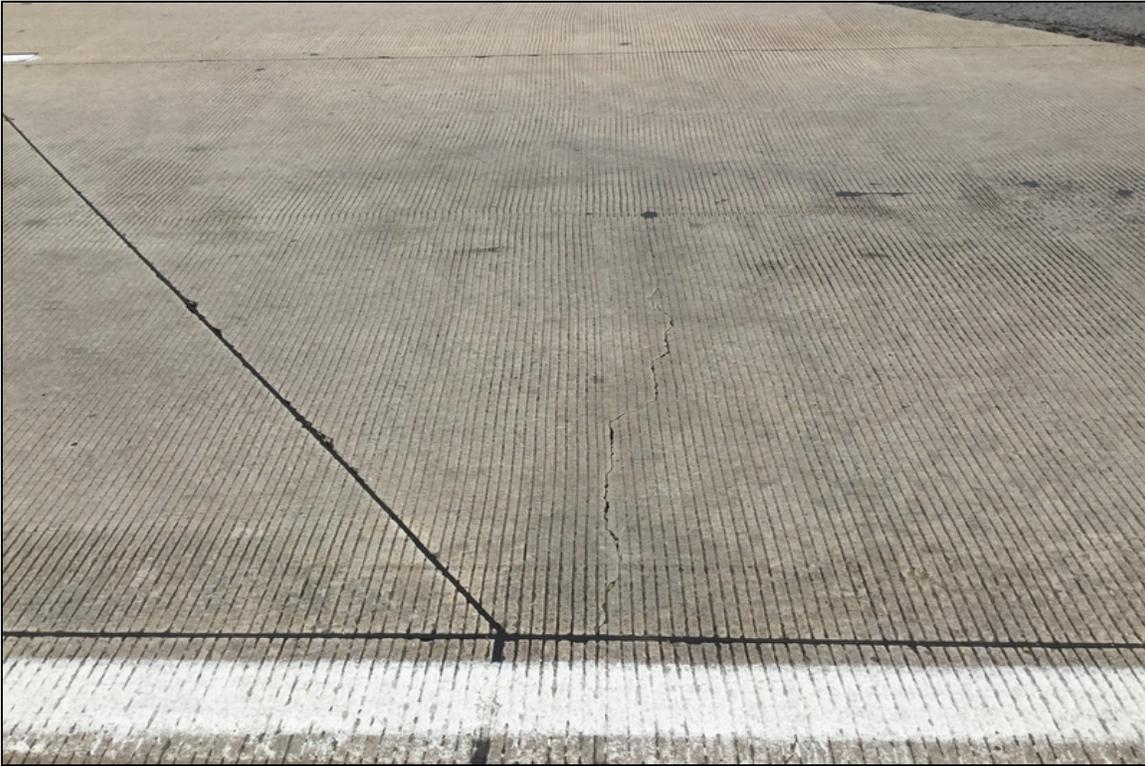
Typical deck



Approach



Efflorescence cracking in bridge railing left side east end.



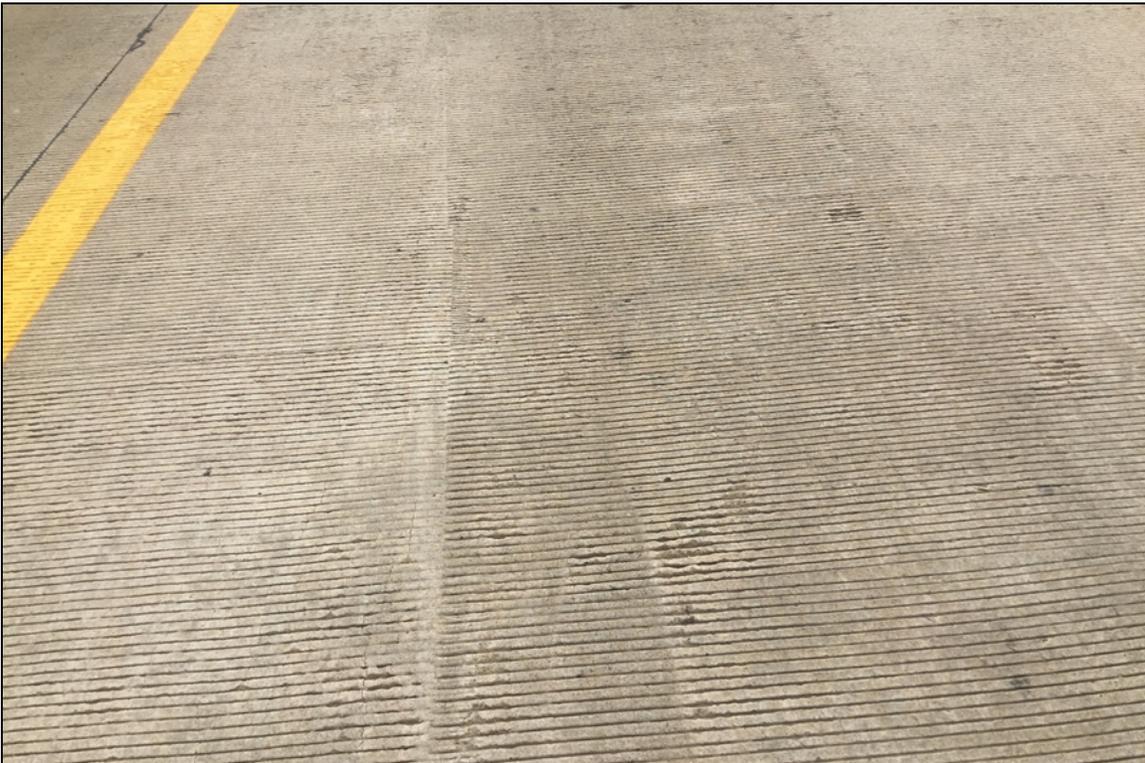
Transverse cracking in east approach.



Map cracking in East approach



West approach slab transverse cracking



Longitudinal cracking in west approach slab

### Maintenance Needs

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

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### Deficiency Description

Sawn joint missing at bents 2 and 3 right lane. There is approximately 26'.

### Remarks

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Sawn joint missing at bent 2,3 right lane. There is approximately 26'.



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### Inspection Comments

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### Deck Notes

DECK - MINOR CRACKING THROUGHOUT DECK. MINOR CRACKING W / EFFLOR. IN OVERHANGS.RAIL - MINOR VERTICAL & HORIZONTAL CRACKING THROUGHOUT.SEALS - GOODAPPROACH SLABS - ONE MODERATE CRACK IN SLAB AT END OF BRIDGE.

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### Superstructure Notes

KRM & ADC Date 3/3/2020 Moved superstructure rating up to an 8 due to no defect 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