



Latitude:35.82108, Longitude:-90.66003

Route:18 Section:04 Log:3.64

Arnold Road ID:16x18x4xA, Arnold Log mile:3.636

District 10, 31 - Craighead County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

Bridge Posting Information

41 - Structure Open/Posted/Closed: A - Open, no restriction

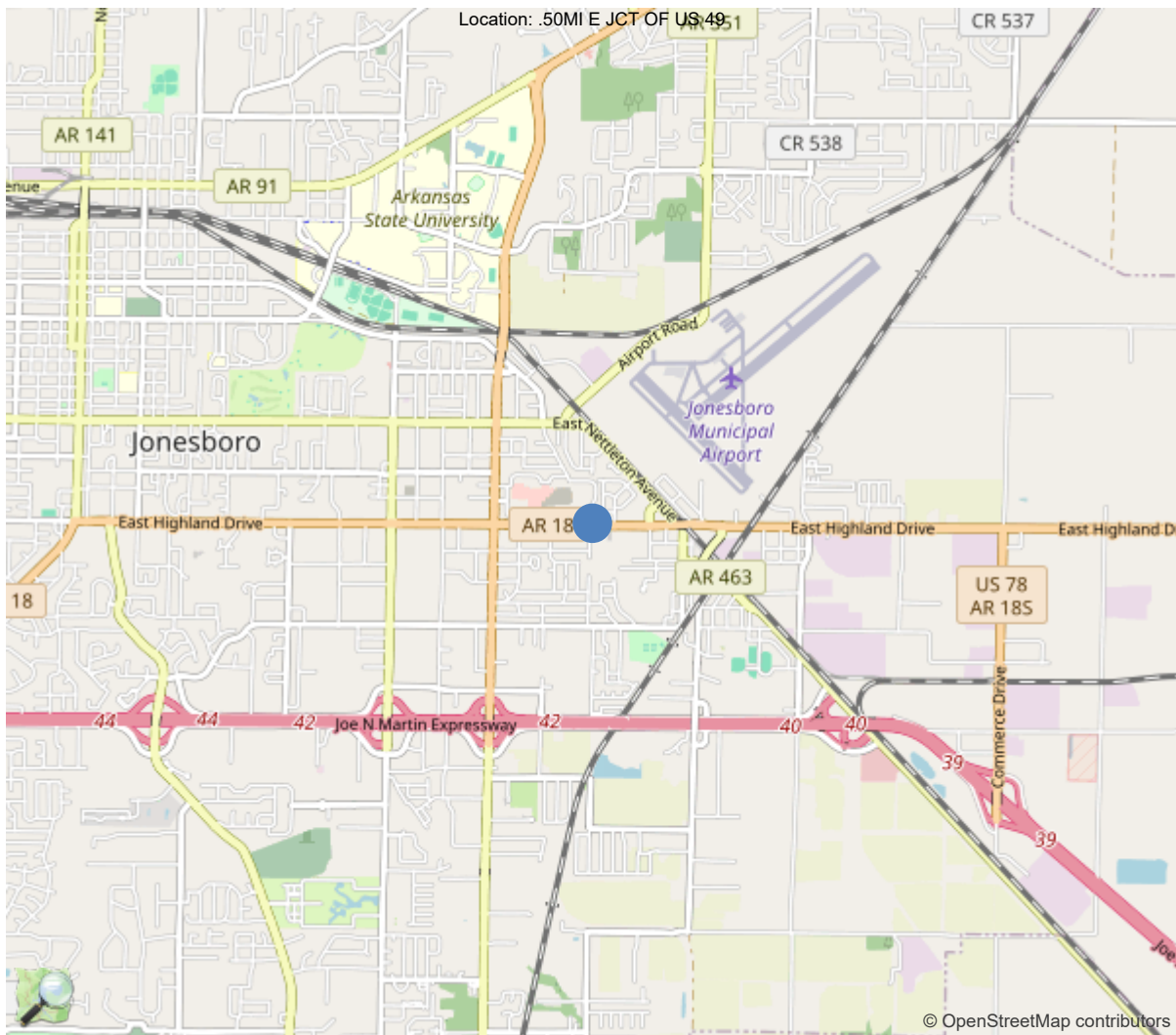
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	40		
Code 9 (31 Tons)	50		
Code 5 (40 Tons)	60		

If calculated Capacity is less than the Legal Load Listed, the Bridge Legally Requires Posting Signs to be installed by the Bridge Owner



30"x36" AR



35.82108, -90.66003



Asset #03014(Routine)
SH 18-04- LM 3.64 over TURTLE CREEK
Location: .50MI E JCT OF US 49

Team Lead: James Adams Inspection Date: 02/15/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	03014
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	31 - Craighead County
(4) Place Code	35710
(6) Features Intersected	TURTLE CREEK
(7) Facility Carried	SH 18-04- LM 3.64
(9) Location	.50MI E JCT OF US 49
(11) Mile Point	3.64 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000018040
(16) Latitude	35.82108
(17) Longitude	-90.66003
(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 pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1956
(106) Year Reconstructed	1990
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	5
Under	0
(29) Average Daily Traffic	12000
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	5 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	77.4 ft
(50) Curb or Sidewalk Width	
Left	6 ft
Right	6 ft
(51) Bridge Roadway Width Curb to Curb	58 ft
(52) Deck Width Out to Out	73.2 ft
(32) Approach Roadway Width (W/Shoulders)	58.1 ft
(33) Bridge Median	0 - No median
(34) Skew	30 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	70.9 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	5 - None present but re-evalua
(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	14 - Urban Other Principal Art
(100) Defense Highway	0 - The inventory route is not
(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	0 - The inventory route is not
(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	7
(59) Superstructure	7
(60) Substructure	8
(61) Channel & Channel Protection	6
(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	
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	
(68) Deck Geometry	2
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	9
(72) Approach Roadway Alignment	9
(36A) Bridge Railings	1 - Inspected feature meets current
(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	5 - Bridge foundations determined t
PROPOSED IMPROVEMENTS	
(75) Type of Work	31 - Replacement of bridge or
(76) Length of Structure Improvement	103 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 430
(96) Total Project Cost	\$ 939
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	14762
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	02/15/2022		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection	No		
* 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.			



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

Concrete rails have vertical cracks at sawed joints.
Concrete deck has abrasion in wheel path and along joint at bent 4.
Top of deck has a few transverse cracks.
Soffit has a few transverse cracks with efflorescence.
Joint seals are losing adhesion and allowing leakage onto abutments.

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

Ends of girders over bents 1 & 4 have some minor flaking rust.
Girders 2 and 10 have areas of discoloration and flaking rust under drains.
Bearings have flaking rust.

60 - Substructure (8 - VERY GOOD CONDITION - no problems noted.)

Backwall portion of abutments have vertical cracks with efflorescence.
Bent 1 is undermined on left end exposing 1 pile.
Bent 4 is beginning to undermine on left end.
Flared end sections of pipes have settled and separated adjacent to bridge at span 3.
Minor drift lodged on top of caps.



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	5488	2829	2626	33	0
1120	Efflorescence/Rust Staining	SF	450	0	417	33	0
1130	Cracking (RC and Other)	SF	302	0	302	0	0
1190	Abrasion/Wear (PSC/RC)	SF	1907	0	1907	0	0
107	Steel Open Girder/Beam	LF	825	825	0	0	0
515	Steel Protective Coating	SF	5715	5580	135	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	135	0	135	0	0
215	Reinforced Concrete Abutment	LF	206	180	0	26	0
1120	Efflorescence/Rust Staining	LF	26	0	0	26	0
227	Reinforced Concrete Pile	EA	24	22	2	0	0
6000	Scour	EA	2	0	2	0	0
234	Reinforced Concrete Pier Cap	LF	160	160	0	0	0
302	Compression Joint Seal	LF	169	0	168	1	0
2310	Leakage	LF	86	0	85	1	0
2350	Debris Impaction	LF	83	0	83	0	0
311	Movable Bearing	EA	22	0	22	0	0
1000	Corrosion	EA	22	0	22	0	0
313	Fixed Bearing	EA	22	0	22	0	0
1000	Corrosion	EA	22	0	22	0	0
330	Metal Bridge Railing	LF	150	150	0	0	0
331	Reinforced Concrete Bridge Railing	LF	150	138	12	0	0
1130	Cracking (RC and Other)	LF	12	0	12	0	0



Elevation

Maintenance Needs

Date Reported: 02/17/2016

Priority: D- Routine

Type of Work: Replace (General)

Status: Monitor

Component: Element

Deficiency Description

Joint seals are losing adhesion and allowing leakage onto abutments.

Remarks





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	
A-63 - Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	

A-54 - Sealable Deck Cracks

A-55 - Deck Washing Needed

A-56 - Joint Cleaning/Flushing Needed



Asset #03014(Routine)

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Location: .50MI E JCT OF US 49

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A-57 - Girder End and Bearing Painting Needed

A-58 - Cap Cleaning/Flushing Needed

A-59 - Joint Repair Needed

A-60 - Full Girder Painting Needed

A-61 - Polymer Overlay Advised

A-62 - Hydro and LMC Advised

A-63 - Missing/Incorrect Log Mile Signage

A-64 - Vegetation Removal Requested

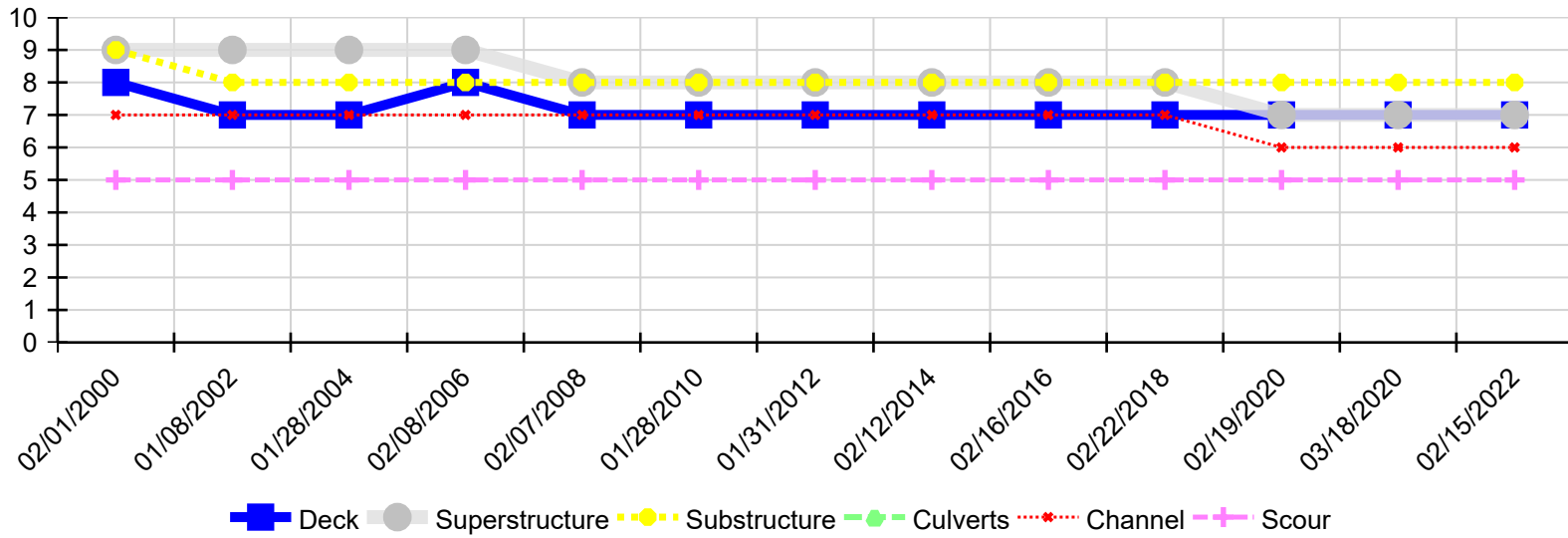


Asset #03014(Routine)
SH 18-04- LM 3.64 over TURTLE CREEK

Location: .50MI E JCT OF US 49

Team Lead: James Adams Inspection Date: 02/15/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
02/15/2022	7	7	8	N	6	5
03/18/2020	7	7	8	N	6	5
02/19/2020	7	7	8	N	6	5
02/22/2018	7	8	8	N	7	5
02/16/2016	7	8	8	N	7	5
02/12/2014	7	8	8	N	7	5
01/31/2012	7	8	8	N	7	5
01/28/2010	7	8	8	N	7	5
02/07/2008	7	8	8	N	7	5
02/08/2006	8	9	8	N	7	5
01/28/2004	7	9	8	N	7	5
01/08/2002	7	9	8	N	7	5
02/01/2000	8	9	9	N	7	5