



Latitude:34.88517, Longitude:-91.87459

Route:31 Section:03 Log:7.67

Arnold Road ID:43x31x3xA, Arnold Log mile:7.666

District 06, 85 - Lonoke County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

### Bridge Posting Information

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

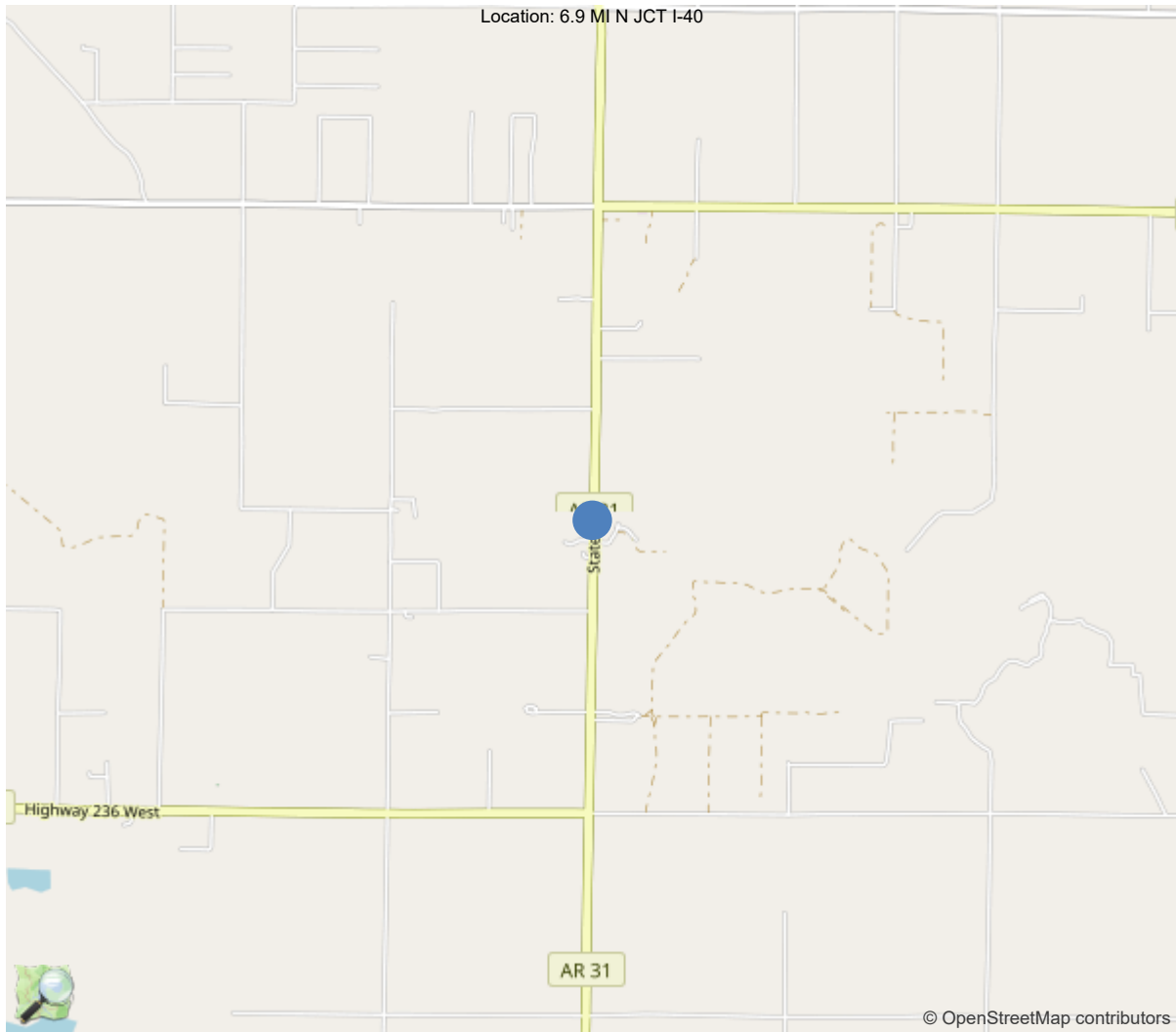
70 - Bridge Posting: 5 - Equal to or above legal loads

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



34.88517, -91.87459





Asset #06131(Routine)

SH 31 Log 7.67 over WATTENSAW BAYOU

Location: 6.9 MI N JCT I-40

Team Lead: Bryan Saunders Inspection Date: 11/14/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06131
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	85 - Lonoke County
(4) Place Code	0
(6) Features Intersected	WATTENSAW BAYOU
(7) Facility Carried	SH 31 Log 7.67
(9) Location	6.9 MI N JCT I-40
(11) Mile Point	7.67 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000031030
(16) Latitude	34.88517
(17) Longitude	-91.87459
(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	1987
(106) Year Reconstructed	0
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	4600
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	7 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	92 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	32.2 ft
(52) Deck Width Out to Out	34.8 ft
(32) Approach Roadway Width (W/Shoulders)	32.2 ft
(33) Bridge Median	0 - No median
(34) Skew	20 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	33.1 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	0
(26) Functional Class	6 - Rural Minor Arterial
(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	8
(59) Superstructure	8
(60) Substructure	8
(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	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	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(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	
(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	5662
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	11/14/2023		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection	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.			





Asset #06131(Routine)

SH 31 Log 7.67 over WATTENSAW BAYOU

Location: 6.9 MI N JCT I-40

Team Lead: Bryan Saunders Inspection Date: 11/14/2023

### General Observation

Logged Northbound.  
Channel Profile added 11/2021

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**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.)  
Channel probed with range

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### A-64 - Vegetation Removal Requested (Y)

Vines and brush under bridge

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### B.C.07 Bridge Bearings Condition Rating (7 - GOOD - Some minor defects.)

All bearings have laminated rust.

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ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	3213	3088	125	0	0
1130	Cracking (RC and Other)	SF	125	0	125	0	0
(12) Small areas of map cracks and transverse cracks in the soffit overhangs.							
107	Steel Open Girder/Beam	LF	450	450	0	0	0
515	Steel Protective Coating	SF	2552	0	2552	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	2552	0	2552	0	0
(515-107) All beams have a granular texture							
215	Reinforced Concrete Abutment	LF	110	104	6	0	0
1130	Cracking (RC and Other)	LF	6	0	6	0	0
(215) Scattered cracks in both abutment back walls.							
227	Reinforced Concrete Pile	EA	10	0	10	0	0
1190	Abrasion/Wear (PSC/RC)	EA	10	0	10	0	0
(227) All pile have abrasion							
234	Reinforced Concrete Pier Cap	LF	70	70	0	0	0
302	Compression Joint Seal	LF	70	70	0	0	0
311	Movable Bearing	EA	10	5	5	0	0
1000	Corrosion	EA	5	0	5	0	0
(311) Bent 1 bearings 1,4&5 have laminated corrosion Bent 4 bearings 1&5 have laminated corrosion							
313	Fixed Bearing	EA	10	10	0	0	0
331	Reinforced Concrete Bridge Railing	LF	185	177	8	0	0
1130	Cracking (RC and Other)	LF	8	0	8	0	0



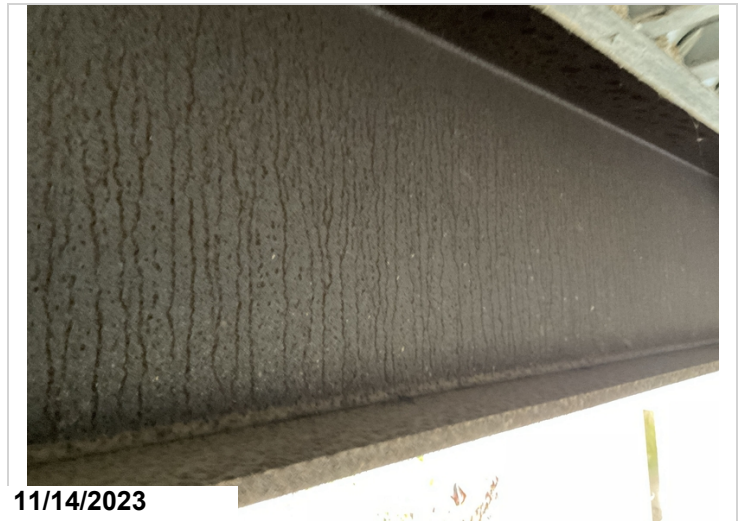
Elevation



Protective coatings



Abrasion to pile



Protective coatings





Typical bearings



Soffit view



Downstream



Upstream





Substructure



Approach looking north



Bent 1 joint seal



Deck view





Deck view



Bent 4 joint seal



Bent 1 laminated rust on bearing 5



Vines and brush under bridge





## Routine Maintenance

### Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	No
A-55 - Deck Washing Needed	No
A-56 - Joint Cleaning/Flushing Needed	No
A-57 - Beam End and Bearing Paint Needed	No
A-58 - Cap Cleaning/Flushing Needed	No
A-59 - Joint Repair Needed	No
A-60 - Full Beam Painting Needed	No
A-61 - Polymer Overlay Advised	Yes
A-62 - Hydro and LMC Advised	No
A-63 - Missing/Incorrect Log Mile Signage	No
A-64 - Vegetation Removal Requested	Yes

**A-54 - Sealable Deck Cracks (No)**

**A-55 - Deck Washing Needed (No)**

**A-56 - Joint Cleaning/Flushing Needed (No)**



**Asset #06131**(Routine)

**SH 31 Log 7.67 over WATTENSAW BAYOU**

**Location: 6.9 MI N JCT I-40**

**Team Lead:** Bryan Saunders **Inspection Date:** 11/14/2023

**A-57 - Girder End and Bearing Painting Needed (No)**

**A-58 - Cap Cleaning/Flushing Needed (No)**

**A-59 - Joint Repair Needed (No)**

**A-60 - Full Girder Painting Needed (No)**

**A-61 - Polymer Overlay Advised (Yes)**

**A-62 - Hydro and LMC Advised (No)**

**A-63 - Missing/Incorrect Log Mile Signage (No)**

**A-64 - Vegetation Removal Requested (Yes)**

Vines and brush under bridge

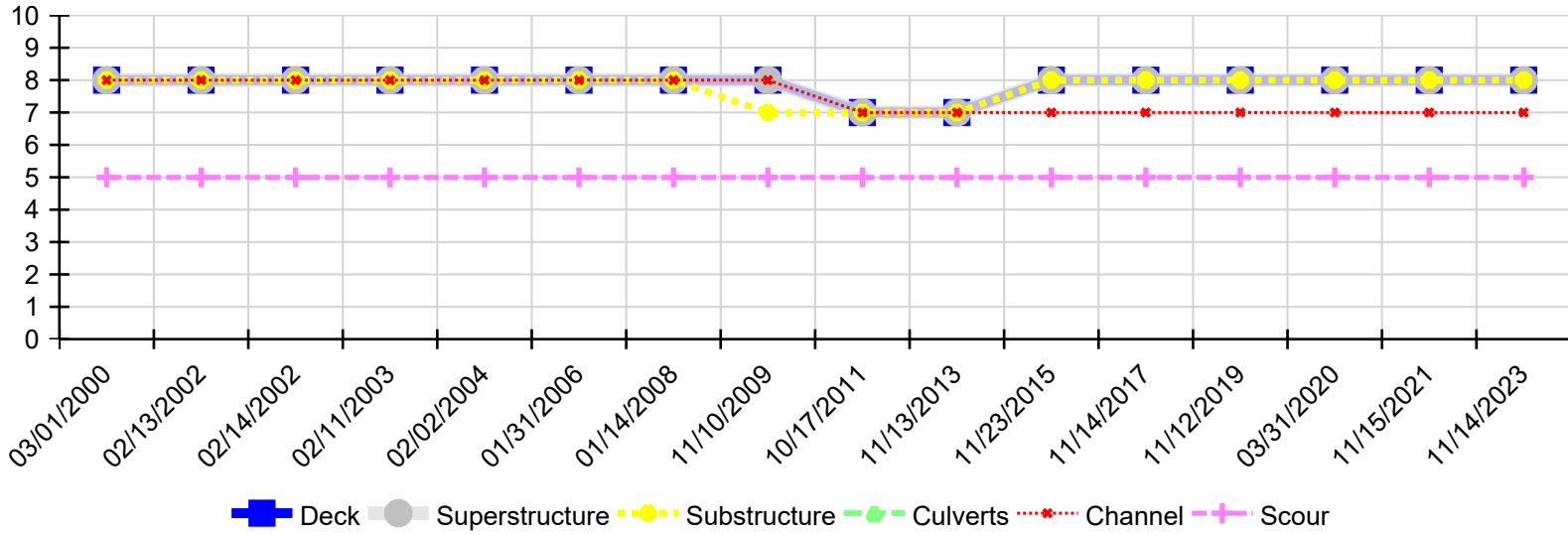


Vines and brush under bridge





Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
11/14/2023	8	8	8	N	7	5
11/15/2021	8	8	8	N	7	5
03/31/2020	8	8	8	N	7	5
11/12/2019	8	8	8	N	7	5
11/14/2017	8	8	8	N	7	5
11/23/2015	8	8	8	N	7	5
11/13/2013	7	7	7	N	7	5
10/17/2011	7	7	7	N	7	5
11/10/2009	8	8	7	N	8	5
01/14/2008	8	8	8	N	8	5
01/31/2006	8	8	8	N	8	5
02/02/2004	8	8	8	N	8	5
02/11/2003	8	8	8	N	8	5
02/14/2002	8	8	8	N	8	5
02/13/2002	8	8	8	N	8	5
03/01/2000	8	8	8	N	8	5