



Latitude:34.83794, Longitude:-92.49675

Route:300 Section:02 Log:18.22

Arnold Road ID:60x300x2xA, Arnold Log mile:18.2

District 06, 119 - Pulaski County

Owner: 1 - State Highway Agency

Inspection Direction: 1 - N to S

Bridge Posting Information

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

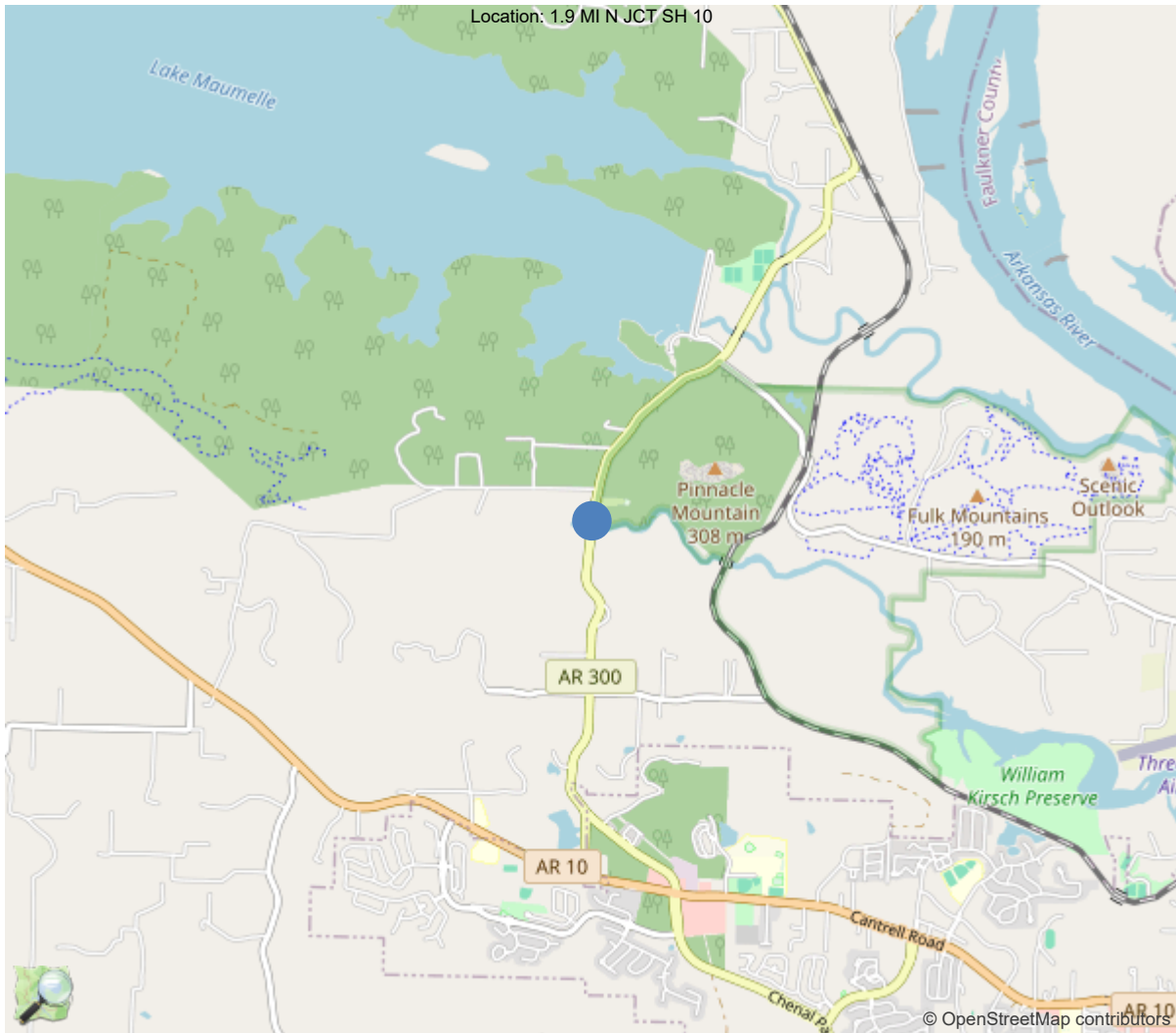
70 - Bridge Posting: 5 - Equal to or above legal loads

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



34.83794, -92.49675



Asset #05813(Routine, Underwater type 2)

Sh 300 Log 18.22 over LITTLE MAUMELLE RIVER

Location: 1.9 MI N JCT SH 10

Team Lead: Bryan Saunders Inspection Date: 02/03/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05813
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	119 - Pulaski County
(4) Place Code	0
(6) Features Intersected	LITTLE MAUMELLE RIVER
(7) Facility Carried	Sh 300 Log 18.22
(9) Location	1.9 MI N JCT SH 10
(11) Mile Point	18.22 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.83794
(17) Longitude	-92.49675
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3 - Steel
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	6
(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	1981
(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	4500
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	5 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	55 ft
(49) Structure Length	330 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	35 ft
(32) Approach Roadway Width (W/Shoulders)	40 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	33.5 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	7 - Rural Major Collector
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exists
(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 structure
(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	6
(60) Substructure	6
(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	8 - 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	6092
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	02/03/2022		
(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.			



Asset #05813(Routine, Underwater type 2)
Sh 300 Log 18.22 over LITTLE MAUMELLE RIVER
Location: 1.9 MI N JCT SH 10
Team Lead: Bryan Saunders **Inspection Date:** 02/03/2022

General Observation

See AHTD drawing # 22621 for layout.

Logged east bound



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Location: 1.9 MI N JCT SH 10

Team Lead: Bryan Saunders Inspection Date: 02/03/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	11550	10626	924	0	0
1130	Cracking (RC and Other)	SF	924	0	924	0	0
(12) Deck has scattered transverse and longitudinal cracks							
107	Steel Open Girder/Beam	LF	1650	1324	239	87	0
1000	Corrosion	LF	326	0	239	87	0
515	Steel Protective Coating	SF	12045	11	11708	239	87
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	12034	0	11708	239	87
(107) All beams have active flaking rust in the web at upper haunch. The beams at both abutments have active flaking rust at the bottom flange and lower web with girder 3 being the worst at both abutments See photo.							
205	Reinforced Concrete Column	EA	5	0	5	0	0
1090	Exposed Rebar	EA	3	0	3	0	0
1130	Cracking (RC and Other)	EA	2	0	2	0	0
(205) All columns have scattered cracks. Columns 2,5 & 6 have small spalls with rebar.							
215	Reinforced Concrete Abutment	LF	94	79	15	0	0
1130	Cracking (RC and Other)	LF	15	0	15	0	0
(215) Scattered cracks in the face of abutment 1.							
234	Reinforced Concrete Pier Cap	LF	153	118	35	0	0
1090	Exposed Rebar	LF	13	0	13	0	0
1130	Cracking (RC and Other)	LF	22	0	22	0	0
302	Compression Joint Seal	LF	224	76	75	65	8
2310	Leakage	LF	73	0	0	65	8
2320	Seal Adhesion	LF	75	0	75	0	0
(302) joint at bent 1 and 6 has lost bond and fallen out . the joint at bent 1 has fallen out over girder 3 and is laying on the cap.							
311	Movable Bearing	EA	30	0	30	0	0
1000	Corrosion	EA	30	0	30	0	0
313	Fixed Bearing	EA	30	0	20	10	0
1000	Corrosion	EA	30	0	20	10	0
(313) Bearings at both abutments have laminating rust.							
321	Reinforced Concrete Approach Slab	SF	1050	690	360	0	0
1130	Cracking (RC and Other)	SF	360	0	360	0	0



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ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(321) approach slabs have scattered cracks							
331	Reinforced Concrete Bridge Railing	LF	660	660	0	0	0



Elevation



Approach looking east



Soffit view



Deck view



Spall with rebar at bent 6



Bent 1 girder 3



Bent 7 girder 3



Bent 7 girder 2 bearings



Joint at bent 6



Cracks at bent 4 and 5



Span 2, cracks up to 0.020"



Bt. 3, cap, exposed rebar.

Maintenance Needs

Date Reported: 02/22/2012

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Superstructure

Deficiency Description

End of web and bottom flange of Beams 2 - 5 at both abutments.
Active rust due to missing joint seal.

Remarks



Bt. 1 Bm 4.



Bt. 7, Beam 4, active corrosion

Maintenance Needs

Date Reported: 02/22/2012

Priority: C - Important

Type of Work: (Inactive) (Inactive) 9 - None

Status: Monitor

Component:

Deficiency Description

Joint seal at abutment 1 and bent 3 and 5.

Abutment 1 has 5 feet of joint seal missing and has debris build-up around bearings.

Bent 3 has 2 feet of joint seal dropped down.

Remarks



Bent 1 abutment has 5 foot of joint seal missing



02/16/2020



02/16/2020

Bt. 3, 3' of joint seal missing & debris impacted.



02/16/2020

Bt. 1, 6' of joint seal missing.



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Location: 1.9 MI N JCT SH 10

Team Lead: Bryan Saunders **Inspection Date:** 02/03/2022

Maintenance Needs

Date Reported: 02/17/2022

Priority: C - Important

Type of Work: Repair (General)

Status: Open

Component: Approach

Deficiency Description

large spall at the approach slab at bent 1

Remarks



Spall at bent 1 approach slab



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



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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

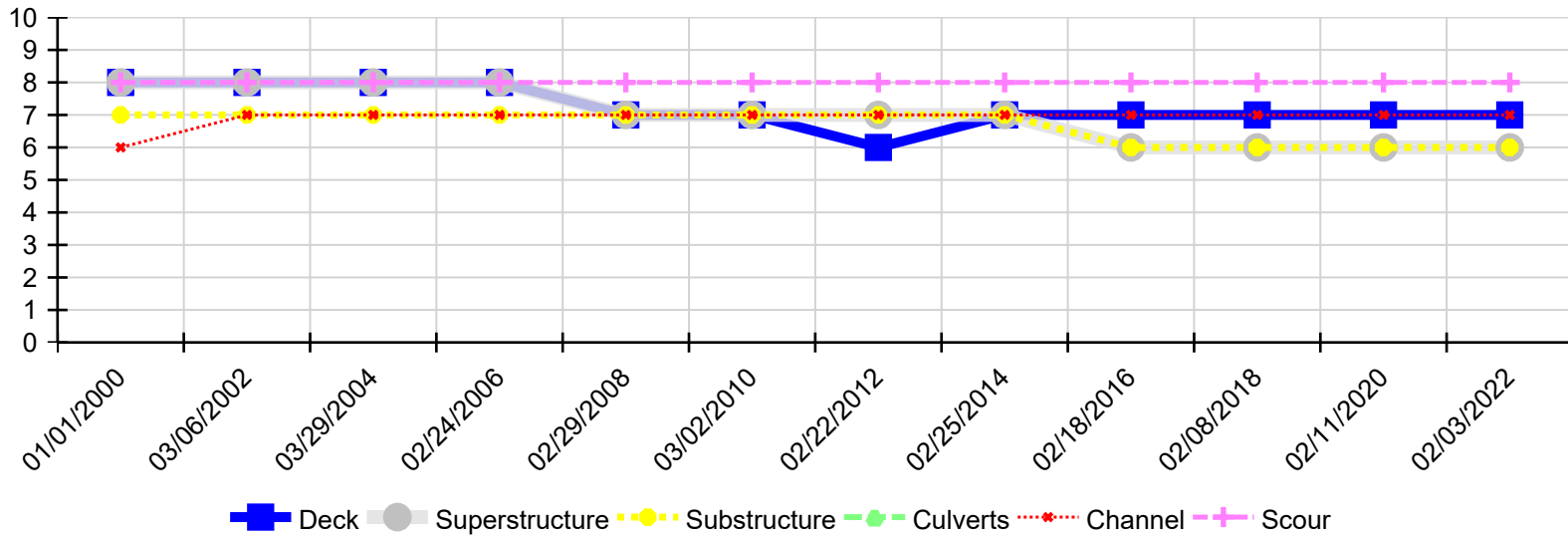
A-61 - Polymer Overlay Advised

A-62 - Hydro and LMC Advised

A-63 - Missing/Incorrect Log Mile Signage

A-64 - Vegetation Removal Requested

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
02/03/2022	7	6	6	N	7	8
02/11/2020	7	6	6	N	7	8
02/08/2018	7	6	6	N	7	8
02/18/2016	7	6	6	N	7	8
02/25/2014	7	7	7	N	7	8
02/22/2012	6	7	7	N	7	8
03/02/2010	7	7	7	N	7	8
02/29/2008	7	7	7	N	7	8
02/24/2006	8	8	7	N	7	8
03/29/2004	8	8	7	N	7	8
03/06/2002	8	8	7	N	7	8
01/01/2000	8	8	7	N	6	8