



Latitude:34.85184, Longitude:-92.48377

Route:300 Section:02 Log:16.96

Arnold Road ID:60x300x2xA, Arnold Log mile:16.931

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

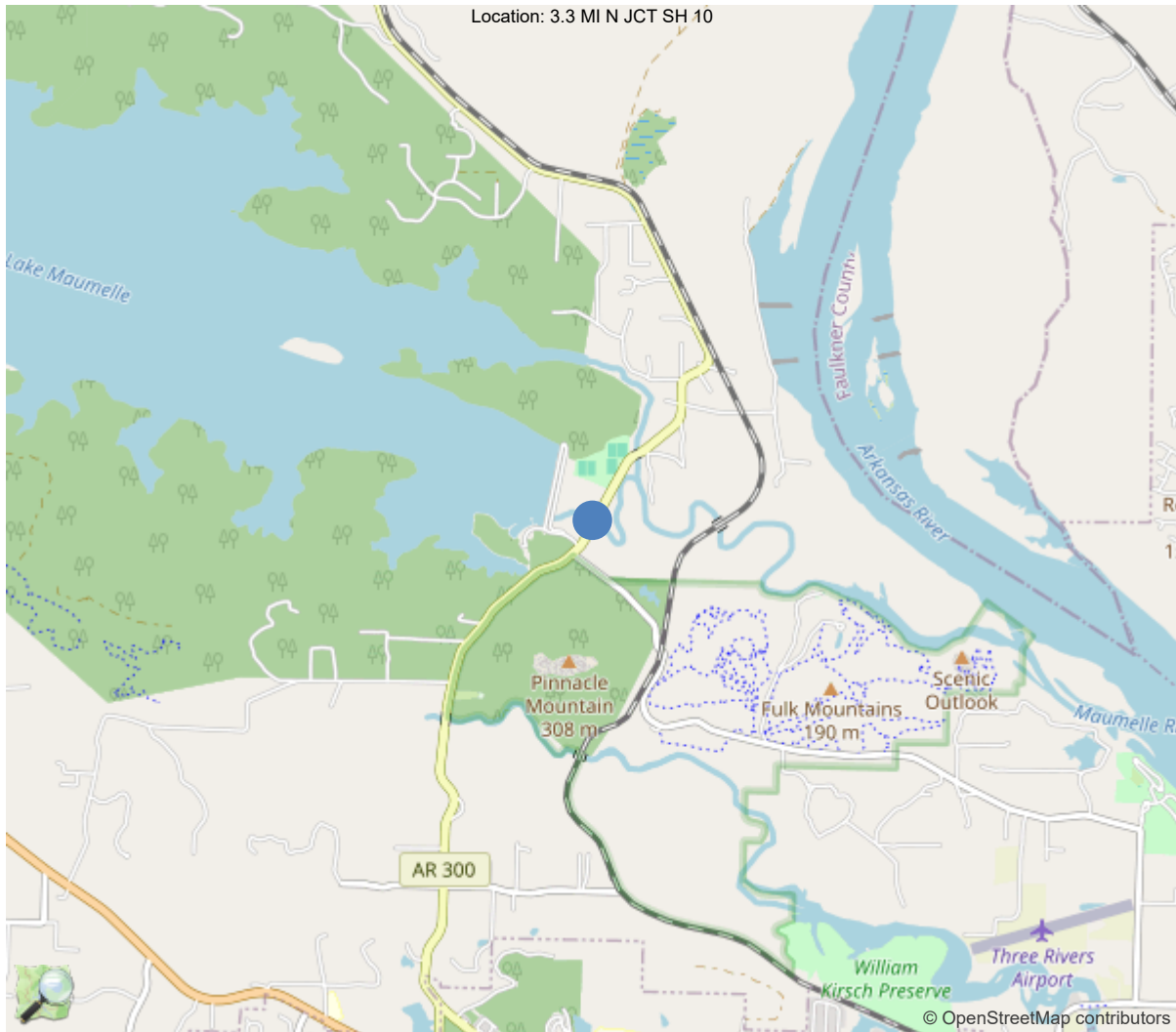
70 - Bridge Posting: 5 - Equal to or above legal loads

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



34.85184, -92.48377



Asset #05812(Routine)

SH 300 Log 16.96 over BIG MAUMELLE RIVER

Location: 3.3 MI N JCT SH 10

Team Lead: Bryan Saunders Inspection Date: 02/14/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05812
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	119 - Pulaski County
(4) Place Code	0
(6) Features Intersected	BIG MAUMELLE RIVER
(7) Facility Carried	SH 300 Log 16.96
(9) Location	3.3 MI N JCT SH 10
(11) Mile Point	16.96 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.85184
(17) Longitude	-92.48377
(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	5
(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	3400
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	9 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	55 ft
(49) Structure Length	277 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	6 - Rural Minor Arterial
(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	7
(61) Channel & Channel Protection	6
(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	4407
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	02/14/2022		
(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		
<p>* 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.</p>			



Asset #05812(Routine)

SH 300 Log 16.96 over BIG MAUMELLE RIVER

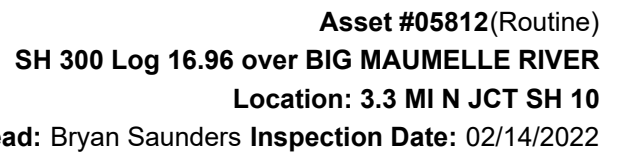
Location: 3.3 MI N JCT SH 10

Team Lead: Bryan Saunders **Inspection Date:** 02/14/2022

General Observation

See AHTD drawing # 22616 for layout.

Logged east bound.



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	9695	9035	660	0	0
1080	Delamination/Spall/Patched Area	SF	8	0	8	0	0
1130	Cracking (RC and Other)	SF	652	0	652	0	0
(12) deck has scattered unsealed cracks							
107	Steel Open Girder/Beam	LF	1375	1320	0	55	0
1000	Corrosion	LF	55	0	0	55	0
515	Steel Protective Coating	SF	10255	0	10200	55	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	10255	0	10200	55	0
(107) Beam ends at both abutments have flaking rust to the lower flanges and upper webs. The beams ends at the interior bents have small areas of flaking rust in the upper web at haunch. due to leaking joints							
(515-107) laminating rust at beam ends at both abutments							
205	Reinforced Concrete Column	EA	4	0	4	0	0
1130	Cracking (RC and Other)	EA	4	0	4	0	0
(205) The columns of bents 2, 3, 4 and 5 have small scattered cracks on the sides and faces.							
215	Reinforced Concrete Abutment	LF	82	32	50	0	0
1130	Cracking (RC and Other)	LF	50	0	50	0	0
(215) Bent 6: the entire length of the beam seat is map cracked							
234	Reinforced Concrete Pier Cap	LF	128	102	26	0	0
1080	Delamination/Spall/Patched Area	LF	5	0	5	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	20	0	20	0	0
(234) Small cracks in all caps. 4' spall with rebar exposed at bent 4 backside(has been repaired 2/2022) bent 4 has small longitudinal and vertical cracks with rust staining							
302	Compression Joint Seal	LF	192	0	96	96	0
2310	Leakage	LF	192	0	96	96	0
(302) Joint seals at bents 1,4&6 are torn and leaking.							
311	Movable Bearing	EA	25	0	25	0	0
1000	Corrosion	EA	25	0	25	0	0
313	Fixed Bearing	EA	25	0	15	10	0
1000	Corrosion	EA	25	0	15	10	0
(313) Bearings at both abutments have corrosion and flaking rust							



Asset #05812(Routine)
SH 300 Log 16.96 over BIG MAUMELLE RIVER

Location: 3.3 MI N JCT SH 10

Team Lead: Bryan Saunders Inspection Date: 02/14/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
321	Reinforced Concrete Approach Slab	SF	1050	956	85	9	0
1080	Delamination/Spall/Patched Area	SF	9	0	0	9	0
1130	Cracking (RC and Other)	SF	85	0	85	0	0
(321) Spalls in the east approach slab.							
331	Reinforced Concrete Bridge Railing	LF	550	550	0	0	0



Elevation



Approach



Deck view



Soffit view



Deck cracks in span 5



Map cracks in the abutment at bent 6



Erosion at bent 6 between girder 2 and 3



Bent 6 girder 3 bearing has corrosion and laminated rust



Bent 5 backside has large cracks and delamination



Span 5, right edge, spall.



Bt. 6, Bm. 3, bottom flange & web around hothead haunch has corrosion.



Bt. 2 column, cracks up to 0.015"



Bt. 6 abutment has horizontal cracking.



longitudinal and vertical cracks and cracks with rust staining



Ahead side at bent 4

Maintenance Needs

Date Reported: 07/07/2021

Priority: B - Pressing

Type of Work: Repair (General)

Status: Forward State

Component: Substructure

Deficiency Description

4' spall with rebar exposed at bent 4 backside under beam 3, 1 1/4" deep area under the bearing.

Remarks

state forces have repaired the large spall in the cap at bent 4 under girder 3



Bent 3 repair has been made to large spall under beam 3



4' spall with rebar exposed at bent 4 backside



1 1/4 " loss of bearing area at the masonry plate at bent 4 backside



4' spall with rebar exposed at bent 4 backside

Maintenance Needs

Date Reported: 02/22/2016

Priority: C - Important

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

Status: Assigned

Component:

Deficiency Description

Embankment at Bent 6 (South end) : erosion action is undermining the abutment.

Remarks



Embankment at Bent 6 (South end) has settled



Looking at bent 6: runoff is eroding the embankment.



Erosion at Bt. 6.

Maintenance Needs

Date Reported: 02/12/2020

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Joint Seals have loss of adhesion and are leaking.

Remarks



Bt. 4, joint seal has debris impaction & loss of adhesion.



Asset #05812(Routine)

SH 300 Log 16.96 over BIG MAUMELLE RIVER

Location: 3.3 MI N JCT SH 10

Team Lead: Bryan Saunders Inspection Date: 02/14/2022

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 #05812(Routine)
SH 300 Log 16.96 over BIG MAUMELLE RIVER

Location: 3.3 MI N JCT SH 10

Team Lead: Bryan Saunders Inspection Date: 02/14/2022

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

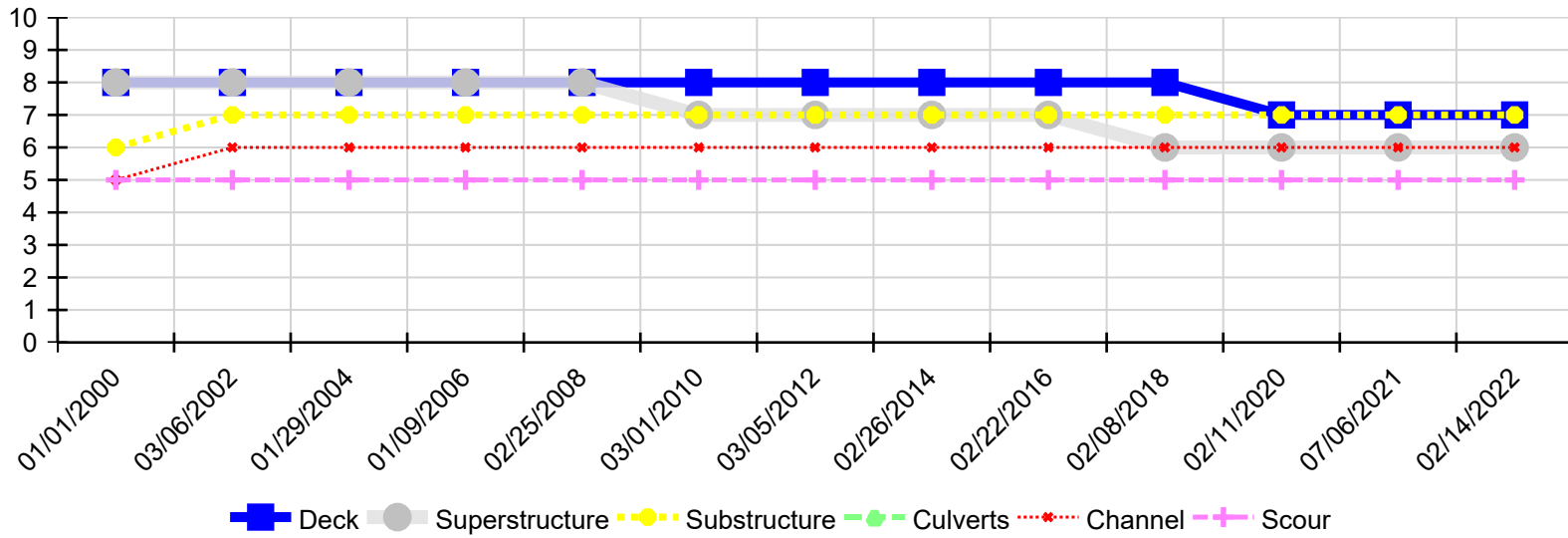
A-63 - Missing/Incorrect Log Mile Signage

A-64 - Vegetation Removal Requested



Asset #05812(Routine)
 SH 300 Log 16.96 over BIG MAUMELLE RIVER
 Location: 3.3 MI N JCT SH 10
 Team Lead: Bryan Saunders Inspection Date: 02/14/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
02/14/2022	7	6	7	N	6	5
07/06/2021	7	6	7	N	6	5
02/11/2020	7	6	7	N	6	5
02/08/2018	8	6	7	N	6	5
02/22/2016	8	7	7	N	6	5
02/26/2014	8	7	7	N	6	5
03/05/2012	8	7	7	N	6	5
03/01/2010	8	7	7	N	6	5
02/25/2008	8	8	7	N	6	5
01/09/2006	8	8	7	N	6	5
01/29/2004	8	8	7	N	6	5
03/06/2002	8	8	7	N	6	5
01/01/2000	8	8	6	N	5	5