



Latitude:35.82307, Longitude:-90.50088

Route:18 Section:04 Log:12.6

Arnold Road ID:16x18x4xA, Arnold Log mile:12.579

District 10, Craighead County

Owner: 1-State Highway Agency



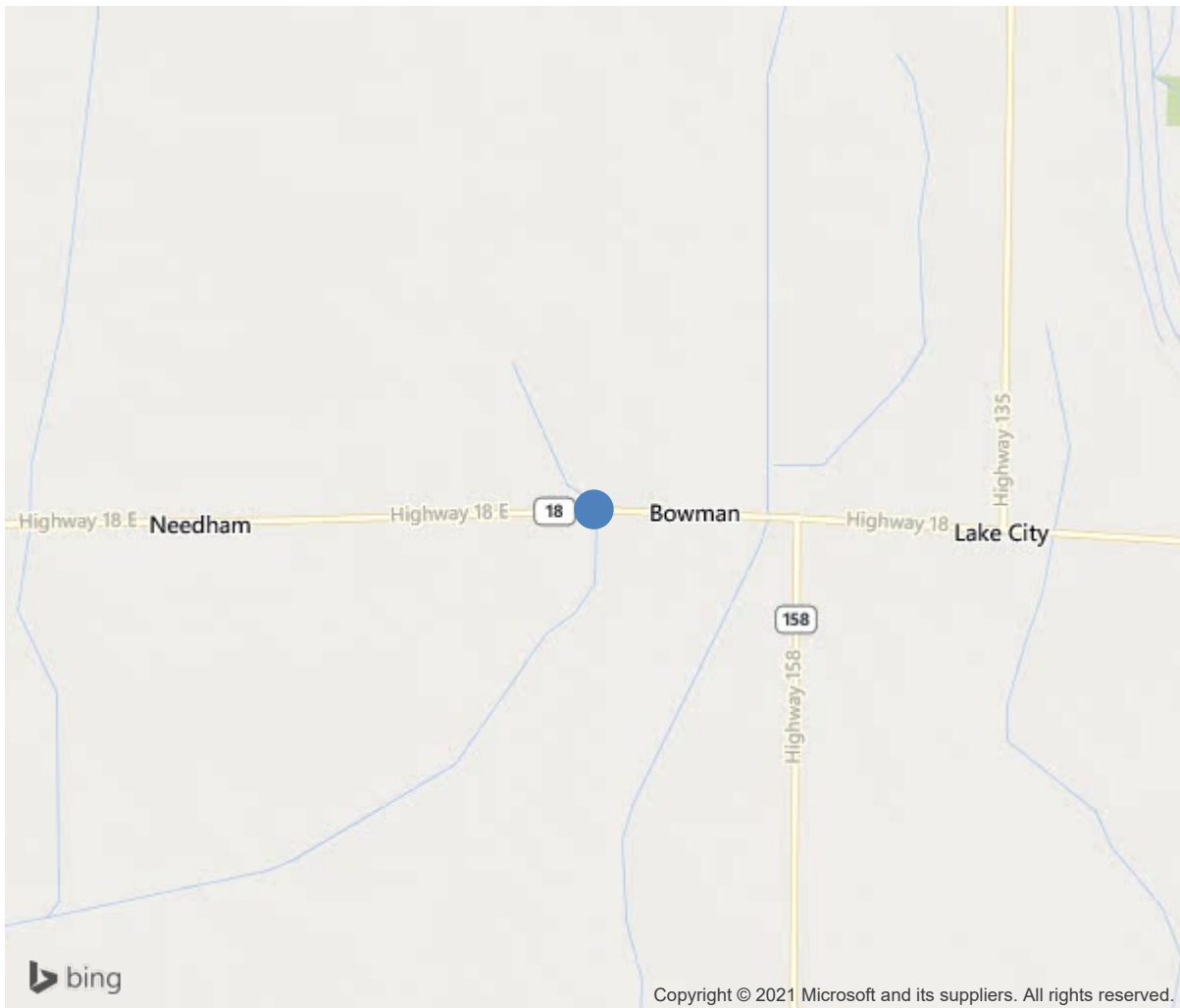
Bridge #06985(Routine, Underwater type 2)

SH 18-04-LM 12.60 over GUM SLOUGH

Location: 1.0 MI W JCT SH 158

Team Lead: Richard Jones **Inspection Date:** July 02, 2020

1.0 MI W JCT SH 158



35.82307, -90.50088



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Location: 1.0 MI W JCT SH 158

Team Lead: Richard Jones Inspection Date: July 02, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	06985
(5) Inventory Route	18
(2) Highway Agency District	10
(3) County Code	31-Craighead County, Arkansas
(4) Place Code	0
(6) Features Intersected	GUM SLOUGH
(7) Facility Carried	SH 18-04-LM 12.60
(9) Location	1.0 MI W JCT SH 158
(11) Mile Point	12.6 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000018040
(16) Latitude	35.8230707792323
(17) Longitude	-90.5008842953046
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	14
Material	1-Concrete
Type	4-Tee beam
(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	2008
(106) Year Reconstructed	0
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	4
Under	0
(29) Average Daily Traffic	10000
(30) Year of ADT	2014
(109) Truck ADT	11 %
(19) Bypass, Detour Length	4 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	90 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	75 ft
(52) Deck Width Out to Out	78.2 ft
(32) Approach Roadway Width (W/Shoulders)	75.1 ft
(33) Bridge Median	0-No median
(34) Skew	0 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	76.5 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 water
(111) Pier Protection	5-None present but re-evaluation
(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	2-Rural Principal Arterial - Oth		
(100) Defense Highway	0-The inventory route is not a S		
(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	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			7
(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			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			8
(68) Deck Geometry			9
(69) Clearances, Vertical/Horizontal			N
(71) Waterway Adequacy			8
(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	5-Bridge foundations determined to be		
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			0
(114) Future ADT			10870
(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	



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	7038	5620	1184	234	0
1120	Efflorescence/Rust Staining	SF	492	0	302	190	0
1130	Cracking (RC and Other)	SF	926	0	882	44	0
110	Reinforced Concrete Open Girder/Beam	LF	810	810	0	0	0
215	Reinforced Concrete Abutment	LF	198	198	0	0	0
225	Steel Pile	EA	22	22	0	0	0
515	Steel Protective Coating	SF	977	977	0	0	0
234	Reinforced Concrete Pier Cap	LF	157	149	6	2	0
1120	Efflorescence/Rust Staining	LF	8	0	6	2	0
301	Pourable Joint Seal	LF	314	0	306	0	8
2320	Seal Adhesion	LF	306	0	306	0	0
2330	Seal Damage	LF	8	0	0	0	8
321	Reinforced Concrete Approach Slab	SF	4708	4198	80	430	0
1080	Delamination/Spall/Patched Area	SF	1	0	0	1	0
1130	Cracking (RC and Other)	SF	509	0	80	429	0
331	Reinforced Concrete Bridge Railing	LF	180	168	12	0	0
1130	Cracking (RC and Other)	LF	12	0	12	0	0



Overall



soffit

Maintenance Needs

Date Reported: 07/25/2016

Priority: D- Routine

Type of Work: Repair

Status: Monitor

Component: Deck

Deficiency Description

Top flange has a few unsealed longitudinal cracks. Corners of each span has diagonal unsealed cracks. Some cracks are up to 1/8" wide.

Remarks



Corner cracks



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Team Lead: Richard Jones **Inspection Date:** July 02, 2020

Date Reported: 07/25/2016
Priority: D- Routine
Type of Work: None
Status: Monitor
Component: 301 - Pourable Joint Seal

Deficiency Description

Poured joint material has some loss of adhesion with a few sections missing.

Remarks



Poured joints



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Team Lead: Richard Jones **Inspection Date:** July 02, 2020

Date Reported: 07/25/2016

Priority: D- Routine

Type of Work: None

Status: Monitor

Component: Approach

Deficiency Description

Approach slabs have open unsealed cracks.

Remarks



Approach slab cracks



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Location: 1.0 MI W JCT SH 158

Team Lead: Richard Jones **Inspection Date:** July 02, 2020

Date Reported: 09/19/2012

Priority: D- Routine

Type of Work: None

Status: Monitor

Component:

Deficiency Description

Minor scour at Bt. 3 has exposed 1 ft. of piles 1,2, & 3 below concrete encasement.

Remarks



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Deck Notes

Approach slabs have open unsealed cracks.

Bridge rails have a few minor cracks.

Top flange has a few unsealed longitudinal cracks. Corners of each span has diagonal unsealed cracks. Some cracks are up to 1/8" wide.

Poured joint material has some loss of adhesion with a few sections missing.

Soffit has a few cracks with efflorescence.

Superstructure Notes

Concrete T-beam girders are in very good condition.

Concrete diaphragms have a few cracks with efflorescence.

Substructure Notes

Caps have a few minor cracks. Some have efflorescence.

In 2010, Bent 3 piles 1 - 4 were reported as exposed approximately 1' below encasements. Only piles 1 and 2 have encasements undermined this inspection.