



Latitude:35.89361, Longitude:-90.58847

Route:49 Section:03 Log:5.48

Arnold Road ID:16x49x3xA, Arnold Log mile:5.481

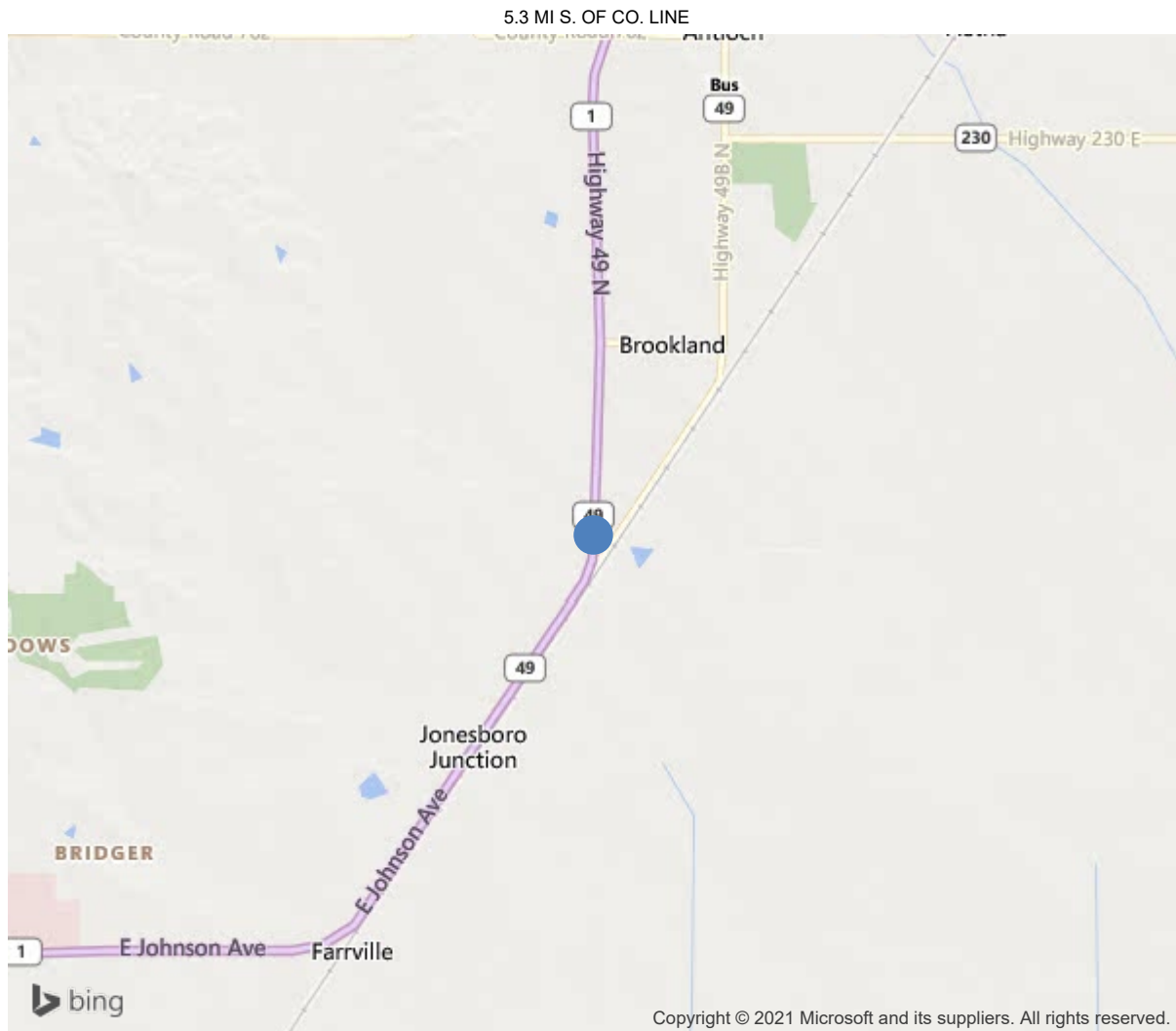
District 10, Craighead County

Owner: 1-State Highway Agency



Bridge #06613(Routine)
US 49-03-LM 5.48 over WHITTEN CREEK
Location: 5.3 MI S. OF CO. LINE

Team Lead: Tim Myrick **Inspection Date:** March 15, 2018



35.89361, -90.58847



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	06613
(5) Inventory Route	49
(2) Highway Agency District	10
(3) County Code	31-Craighead County, Arkansas
(4) Place Code	0
(6) Features Intersected	WHITTEN CREEK
(7) Facility Carried	US 49-03-LM 5.48
(9) Location	5.3 MI S. OF CO. LINE
(11) Mile Point	5.48 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000049030
(16) Latitude	35.89361
(17) Longitude	-90.58847
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	11
Material	1-Concrete
Type	1-Slab
(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	0-None
AGE AND SERVICE	
(27) Year Built	2000
(106) Year Reconstructed	0
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	5
Under	0
(29) Average Daily Traffic	19000
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	2 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	35 ft
(49) Structure Length	105 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	69.9 ft
(52) Deck Width Out to Out	72.8 ft
(32) Approach Roadway Width (W/Shoulders)	69.9 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	71.2 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	5-Bridge is not eligible for the NRHP		
CONDITION			
(58) Deck			7
(59) Superstructure			7
(60) Substructure			7
(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			7
(68) Deck Geometry			5
(69) Clearances, Vertical/Horizontal			N
(71) Waterway Adequacy			9
(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			
(114) Future ADT			17446
(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
38	RC Slab	SF	7648	6948	0	700	0
1120	Efflorescence/Rust Staining	SF	700	0	0	700	0
(38)	Concrete Slab has longitudinal cracks thru slab with efflorescence.						
215	Reinforced Concrete Abutment	LF	171	171	0	0	0
225	Steel Pile	EA	24	24	0	0	0
515	Steel Protective Coating	SF	2132	2132	0	0	0
234	Reinforced Concrete Pier Cap	LF	169	169	0	0	0
321	Reinforced Concrete Approach Slab	SF	3942	3612	0	330	0
1130	Cracking (RC and Other)	SF	330	0	0	330	0
331	Reinforced Concrete Bridge Railing	LF	210	210	0	0	0



Deck view



Roadway view



Underneath deck view



Deck cracks



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Maintenance Needs



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Deck Notes

Sealable cracks top of deck. Approach slabs have some moderate size unsealed cracks.

Superstructure Notes

Concrete Slab has longitudinal cracks thru slab with efflorescence

Substructure Notes

Bent 3 bottom 2ft. of encasement rusted. top 1ft. of Pile 12 Bent 3 rusted due to chemical run off.