



Latitude:35.03570, Longitude:-91.96371

Route:319 Section:02 Log:0.86

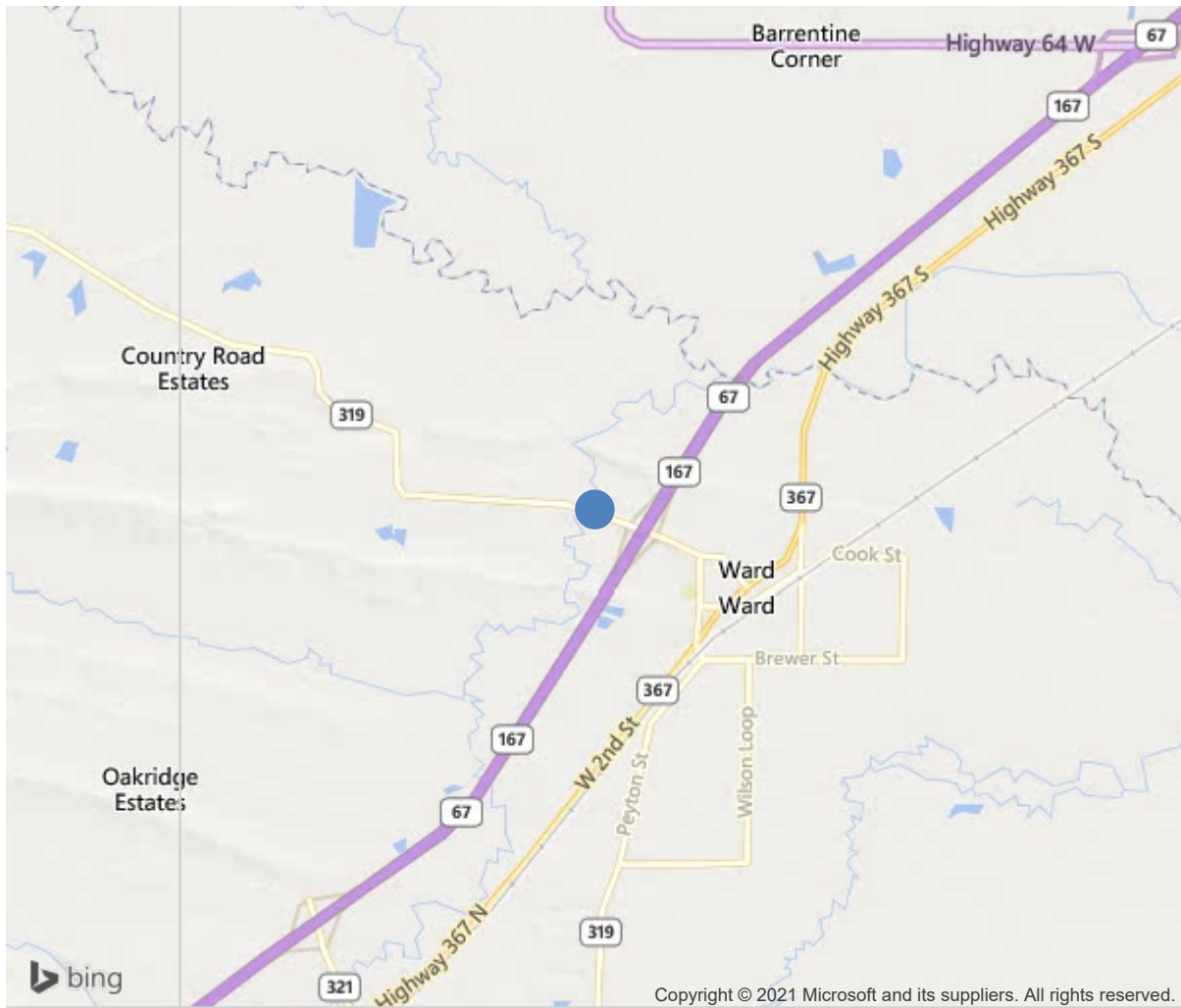
Arnold Road ID:43x319x2xA, Arnold Log mile:0.859

District 06, Lonoke County

Owner: 1-State Highway Agency

Place Code: 71040 - WARD

1 MI W OF WARD AT JCT 367



35.03570, -91.96371



Bridge #05486(Routine)
SH 319 Log 0.86 over FOUR MILE CREEK
Location: 1 MI W OF WARD AT JCT 367

Team Lead: Chris Doggett Inspection Date: May 05, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	05486
(5) Inventory Route	319
(2) Highway Agency District	06
(3) County Code	85-Lonoke County, Arkansas
(4) Place Code	71040
(6) Features Intersected	FOUR MILE CREEK
(7) Facility Carried	SH 319 Log 0.86
(9) Location	1 MI W OF WARD AT JCT 367
(11) Mile Point	0.86 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.0357
(17) Longitude	-91.96371
(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	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 placed
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1973
(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	1100
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	6 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	35 ft
(49) Structure Length	210 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	27.9 ft
(52) Deck Width Out to Out	30.7 ft
(32) Approach Roadway Width (W/Shoulders)	34.1 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	29.5 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	1-Navigation protection not requ
(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 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	0-The inventory route is not part of
(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	6
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	8
(72) Approach Roadway Alignment	6
(36A) Bridge Railings	1-Inspected feature meets currently a
(36B) Transitions	0-Inspected feature does not meet cur
(36C) Approach Guardrail	0-Inspected feature does not meet cur
(36D) Approach Guardrail Ends	0-Inspected feature does not meet cur
(113) Scour Critical Bridges	8-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	1298
(115) Year of Future ADT	2028
INSPECTIONS	
(90) Inspection Date	05/2020
(91) Frequency	24 Months
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	No
B: Underwater Inspection	No
C: Other Special Inspection	No



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	6440	3682	2754	4	0
1080	Delamination/Spall/Patched Area	SF	4	0	0	4	0
1130	Cracking (RC and Other)	SF	234	0	234	0	0
1190	Abrasion/Wear (PSC/RC)	SF	2520	0	2520	0	0
(38)	Span 1 slab left side at bent 2 has spall with exposed rebar. Span2 at bent 2 right side has spall with exposed rebar. The deck has areas of minor abrasion and map cracking.						
205	Reinforced Concrete Column	EA	4	0	4	0	0
1190	Abrasion/Wear (PSC/RC)	EA	4	0	4	0	0
(205)	Bt. 4&5 all columns have abrasion.						
225	Steel Pile	EA	15	8	0	7	0
1000	Corrosion	EA	7	0	0	7	0
515	Steel Protective Coating	SF	372	0	0	317	55
3440	Effectiveness (Steel Protective Coatings)	SF	372	0	0	317	55
(225)	Bt. 2, piles 2 & 4 are beginning to pit on the top 2" of the pile. Bt. 6, piles 1-5 are beginning to pit on the top 2" of the pile. Bt. 2, piles 2 & 4 & Bt. 6 piles 1-5, the effectiveness of the protective coating is gone. The remainder of the protective coating has limited effectiveness as well.						
234	Reinforced Concrete Pier Cap	LF	71	68	3	0	0
1080	Delamination/Spall/Patched Area	LF	3	0	3	0	0
(234)	Delam at Back side of bent 6 cap						
301	Pourable Joint Seal	LF	153	0	0	153	0
2320	Seal Adhesion	LF	153	0	0	153	0
(301)	All of the pourable joint material has lost its adhesion allowing water to leak thru the joints.						
331	Reinforced Concrete Bridge Railing	LF	420	420	0	0	0



Soffit view



Deck view



Inventory looking north



Span2 at bent 2 right side has spall with exposed rebar.

Maintenance Needs

Date Reported: 05/08/2018
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: 225 - Steel Pile

Deficiency Description

Steel pile at bents 2 & 6 have active rust with moderate pitting below caps.

Remarks

Bent 6, pile 4



Steel pile 4 at bent 2 has moderate pitting at the top, common pile 2.



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Inspection Comments

Job 6954, drawing 17877

Logged Northbound.