



Latitude:34.77914, Longitude:-91.77952

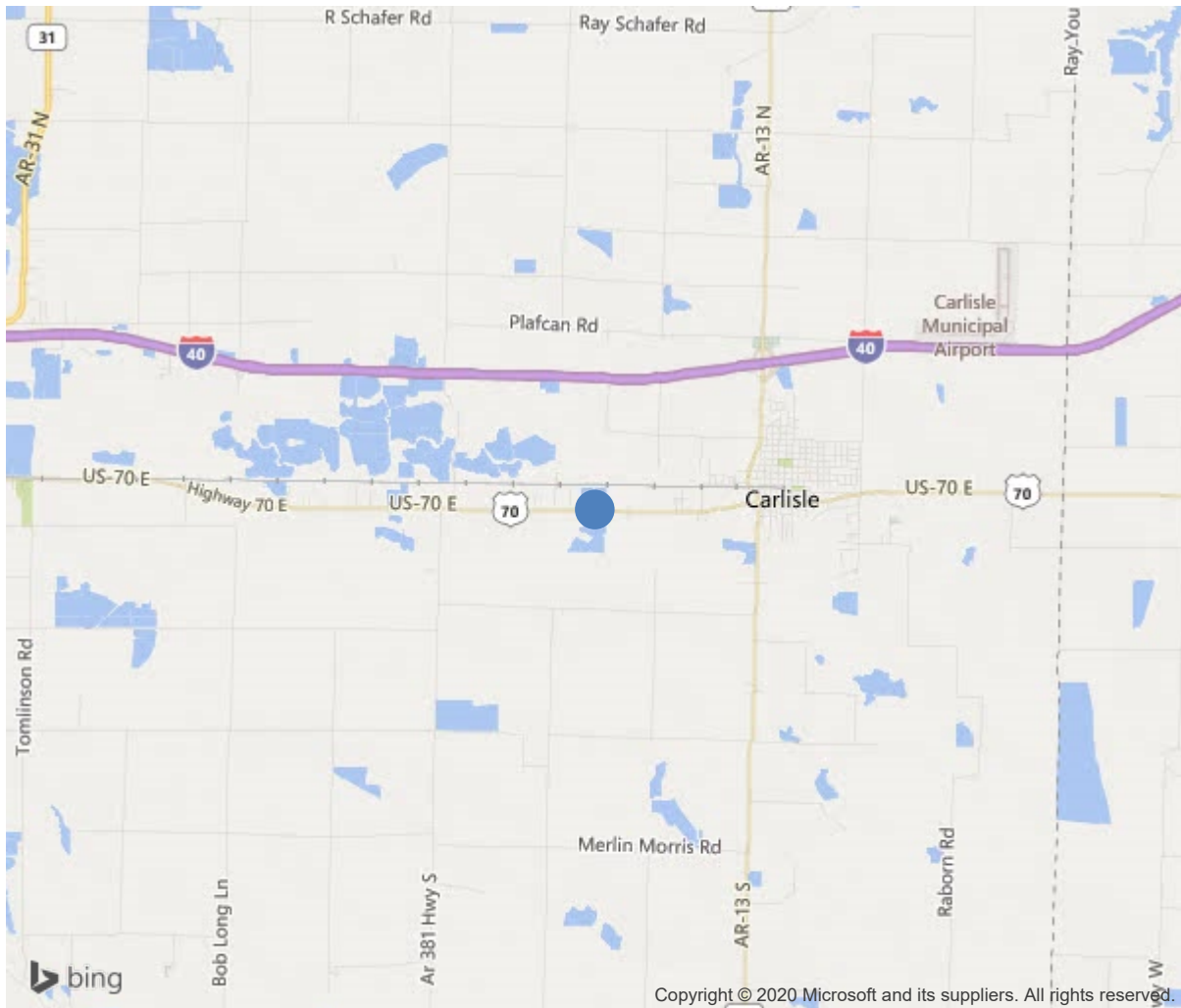
Route:70 Section:15 Log:6.889

Arnold Road ID:43x70x15xA, Arnold Log mile:6.884

District 06, Lonoke County

Owner: 1-State Highway Agency

2.00 MI W OF CARLISLE



34.77914, -91.77952



**Bridge #01467 (Routine)**  
**US 70 Log 6.89 over WHITE OAK DITCH**  
**Location: 2.00 MI W OF CARLISLE**

**Team Lead: Chris Doggett Inspection Date: September 11, 2019**

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	01467
(5) Inventory Route	70
(2) Highway Agency District	06
(3) County Code	85-Lonoke County, Arkansas
(4) Place Code	0
(6) Features Intersected	WHITE OAK DITCH
(7) Facility Carried	US 70 Log 6.89
(9) Location	2.00 MI W OF CARLISLE
(11) Mile Point	6.889 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.77914
(17) Longitude	-91.77952
(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	11
Material	1-Concrete
Type	1-Slab
(45) No. of Spans in Main Unit	1
(46) No. of Approach Spans	2
(107) Deck Structure Type	1-Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	6-Bituminous
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1931
(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	2900
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	4 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	35 ft
(49) Structure Length	65 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	26.9 ft
(52) Deck Width Out to Out	30.1 ft
(32) Approach Roadway Width (W/Shoulders)	27.9 ft
(33) Bridge Median	0-No median
(34) Skew	30 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	27.9 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	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	6
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	5
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2-M 13.5 / H 15
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	33
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	1
Rating	20
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	5
(68) Deck Geometry	3
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	7
(72) Approach Roadway Alignment	8
(36) Traffic Safety Features	0000
A) Bridge Railings	0-Inspected feature does not meet cur
B) Transitions	0-Inspected feature does not meet cur
C) Approach Guardrail	0-Inspected feature does not meet cur
D) Approach Guardrail Ends	0-Inspected feature does not meet cur
(113) Scour Critical Bridges	5-Bridge foundations determined to be
PROPOSED IMPROVEMENTS	
(75) Type of Work	Replacement of bridge or other
(76) Length of Structure Improvement	90 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 125
(96) Total Project Cost	\$ 309
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	4143
(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



**Team Lead:** Chris Doggett, **Inspection Date:** September 11, 2019

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	1020	1012	4	4	0
1080	Delamination/Spall/Patched Area	SF	2	0	0	2	0
1090	Exposed Rebar	SF	6	0	4	2	0
510	Wearing Surfaces	SF	918	718	0	200	0
3220	Crack (Wearing Surface)	SF	200	0	0	200	0
(16)							
Small transverse spall between girders 2 and 3. Small spall with exposed rebar near girder 4.							
38	RC Slab	SF	950	876	46	28	0
1080	Delamination/Spall/Patched Area	SF	4	0	0	4	0
1090	Exposed Rebar	SF	4	0	0	4	0
1120	Efflorescence/Rust Staining	SF	20	0	0	20	0
1130	Cracking (RC and Other)	SF	46	0	46	0	0
510	Wearing Surfaces	SF	855	705	0	150	0
3220	Crack (Wearing Surface)	SF	150	0	0	150	0
(38)							
Span 1 has a longitudinal crack near centerline. 0.015 inch avg. Span 3 has two longitudinal cracks with efflorescence, 0.020 inch avg and one spall with exposed rebar near centerline and a spall with efflorescence and exposed rebar on the right edge near bent 4. The right side of span 4 has cracking with efflorescence. See photo.							
110	Reinforced Concrete Open Girder/Beam	LF	170	169	1	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
(110)							
Girder1 has one small exposed rebar on the left side at bent 2.							
215	Reinforced Concrete Abutment	LF	72	68	2	2	0
1120	Efflorescence/Rust Staining	LF	2	0	0	2	0
1130	Cracking (RC and Other)	LF	2	0	2	0	0
(215)							
The right end of bent 4 has some cracks with efflorescence at the wing wall. Bent 1: erosion has exposed pile.							
227	Reinforced Concrete Pile	EA	13	3	9	1	0
1190	Abrasion/Wear (PSC/RC)	EA	10	0	9	1	0
(227)							



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
Bent 1 pile 1 has severe abrasion at water line. See photo. All of the pile have abrasion with some lose of small aggregate.							
234	Reinforced Concrete Pier Cap	LF	62	59	0	3	0
1080	Delamination/Spall/Patched Area	LF	0	0	0	0	0
1090	Exposed Rebar	LF	3	0	0	3	0
(234)							
Bent 2, right end back face. Bent 3, back side near pile 2.							
331	Reinforced Concrete Bridge Railing	LF	131	131	0	0	0



Span 3: soffit has a spall with exposed rebar



Deck view





Bent 3, pile 2: pile has heavy abrasion, all pile are in similar condition



Bent 4: erosion action has undermined the left concrete rail end treatment.



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## **Maintenance Needs**





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**Inspection Comments**

AHTD Job 6115, drawing 2828.

Logged East bound.