



Latitude:36.41153, Longitude:-90.61395

Route:67 Section:20 Log:9.5

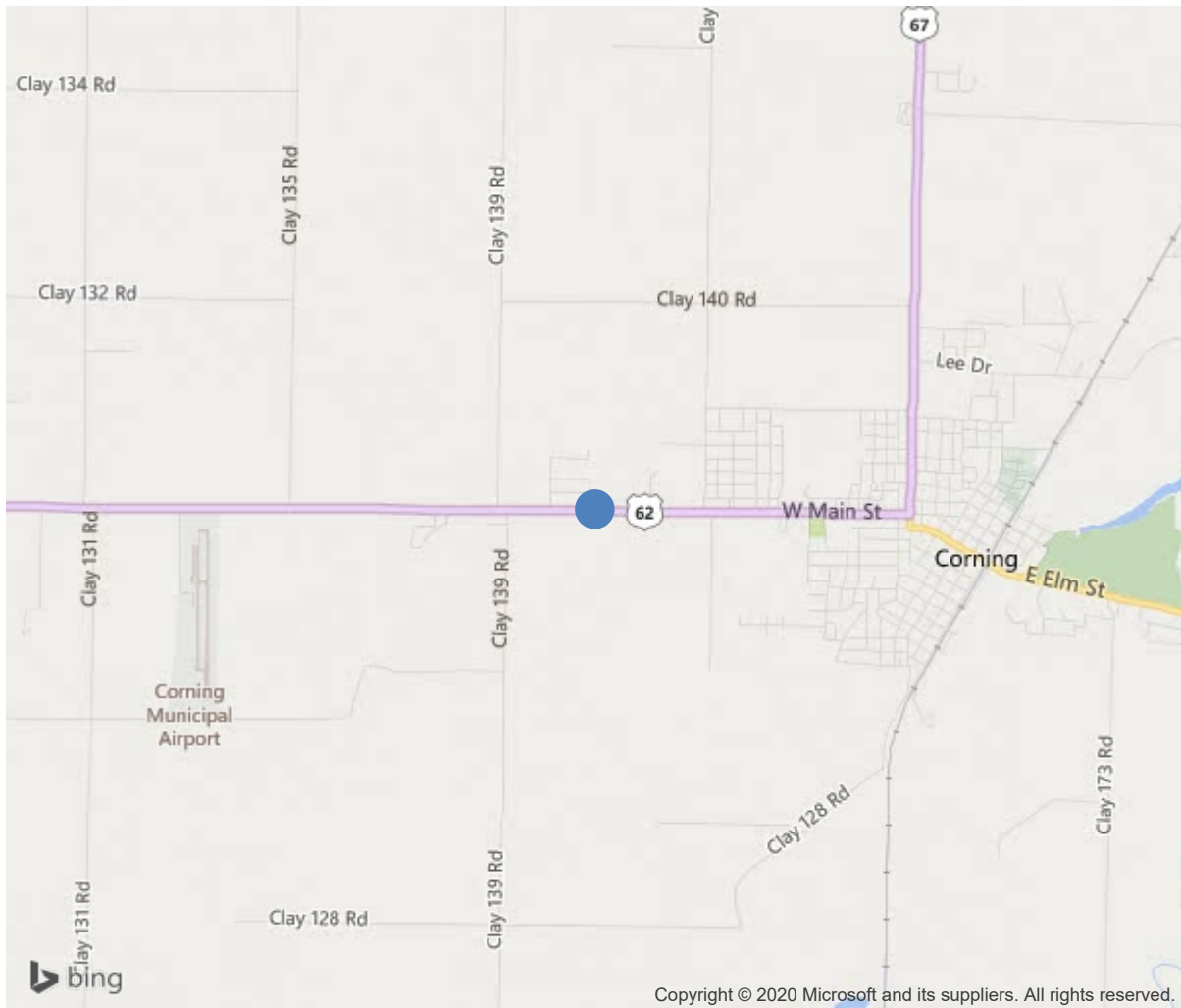
Arnold Road ID:11x67x20xA, Arnold Log mile:9.469

District 10, Clay County

Owner: 1-State Highway Agency

Team Lead: Richard Jones **Inspection Date:** February 07, 2017

1.5 MI W OF CORNING



36.41153, -90.61395



Bridge #00432(Routine)

US 67-20- LM 9.50 over MIDDLE CREEK

Location: 1.5 MI W OF CORNING

Team Lead: Richard Jones Inspection Date: February 07, 2017

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	00432
(5) Inventory Route	67
(2) Highway Agency District	10
(3) County Code	21-Clay County, Arkansas
(4) Place Code	0
(6) Features Intersected	MIDDLE CREEK
(7) Facility Carried	US 67-20- LM 9.50
(9) Location	1.5 MI W OF CORNING
(11) Mile Point	9.5 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000067200
(16) Latitude	36.41153
(17) Longitude	-90.61395
(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	1
(46) No. of Approach Spans	0
(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	1928
(106) Year Reconstructed	1954
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	7300
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	8 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	41.5 ft
(49) Structure Length	41.5 ft
(50) Curb or Sidewalk Width	
Left	2.8 ft
Right	2.8 ft
(51) Bridge Roadway Width Curb to Curb	28 ft
(52) Deck Width Out to Out	33.5 ft
(32) Approach Roadway Width (W/Shoulders)	38.1 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	28.5 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	5-Bridge is not eligible for the NRHP
CONDITION	
(58) Deck	7
(59) Superstructure	7
(60) Substructure	6
(61) Channel & Channel Protection	5
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	4-M 18 / H 20
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	59
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	1
Rating	35
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	6
(68) Deck Geometry	2
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(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	
(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	4221
(115) Year of Future ADT	2028
INSPECTIONS	
(90) Inspection Date	201902
(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

SUFFICIENCY RATING	73.3
STATUS (SD/FO/None)	Functionally Obsolete



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	1441	1441	0	0	0
510	Wearing Surfaces	SF	1155	897	0	258	0
3220	Crack (Wearing Surface)	SF	258	0	0	258	0
110	Reinforced Concrete Open Girder/Beam	LF	255	212	42	1	0
1080	Delamination/Spall/Patched Area	LF	1	0	0	1	0
1130	Cracking (RC and Other)	LF	42	0	42	0	0
215	Reinforced Concrete Abutment	LF	115	67	48	0	0
1130	Cracking (RC and Other)	LF	42	0	42	0	0
6000	Scour	LF	6	0	6	0	0
333	Other Bridge Railing	LF	100	10	90	0	0
1000	Corrosion	LF	90	0	90	0	0



Deck/wearing surface





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Location: 1.5 MI W OF CORNING

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Maintenance Needs



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Inspection Comments

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Deck Notes

Bridge Railing has 90% paint deterioration with some rust.

Deck with asphalt overlay has some sealable cracks.

Superstructure Notes

Girders have a few minor cracks in bottom of girders.

Span
1 Girder 6 has 1LF of honeycomb area.

Substructure Notes

Abutments have a few minor vertical cracks.

2
ft. deep scour hole under bridge near Bent 1 Abutment, mostly due to old concrete Abutment left from previous bridge located 10ft. from Bent 1 on downstream side.

Bent 1
Abutment has 24ft. of face of footing exposed up to 2' deep, see 2017 photo.

Bent 2
Abutment has 12ft. of face of footing exposed up to 3' deep, see 2017 photo.

Heavy Erosion at NW corner of bridge beginning to undermine Abutment Wing, see 2009 - No change since 2009.