



Latitude:35.14477, Longitude:-90.40947

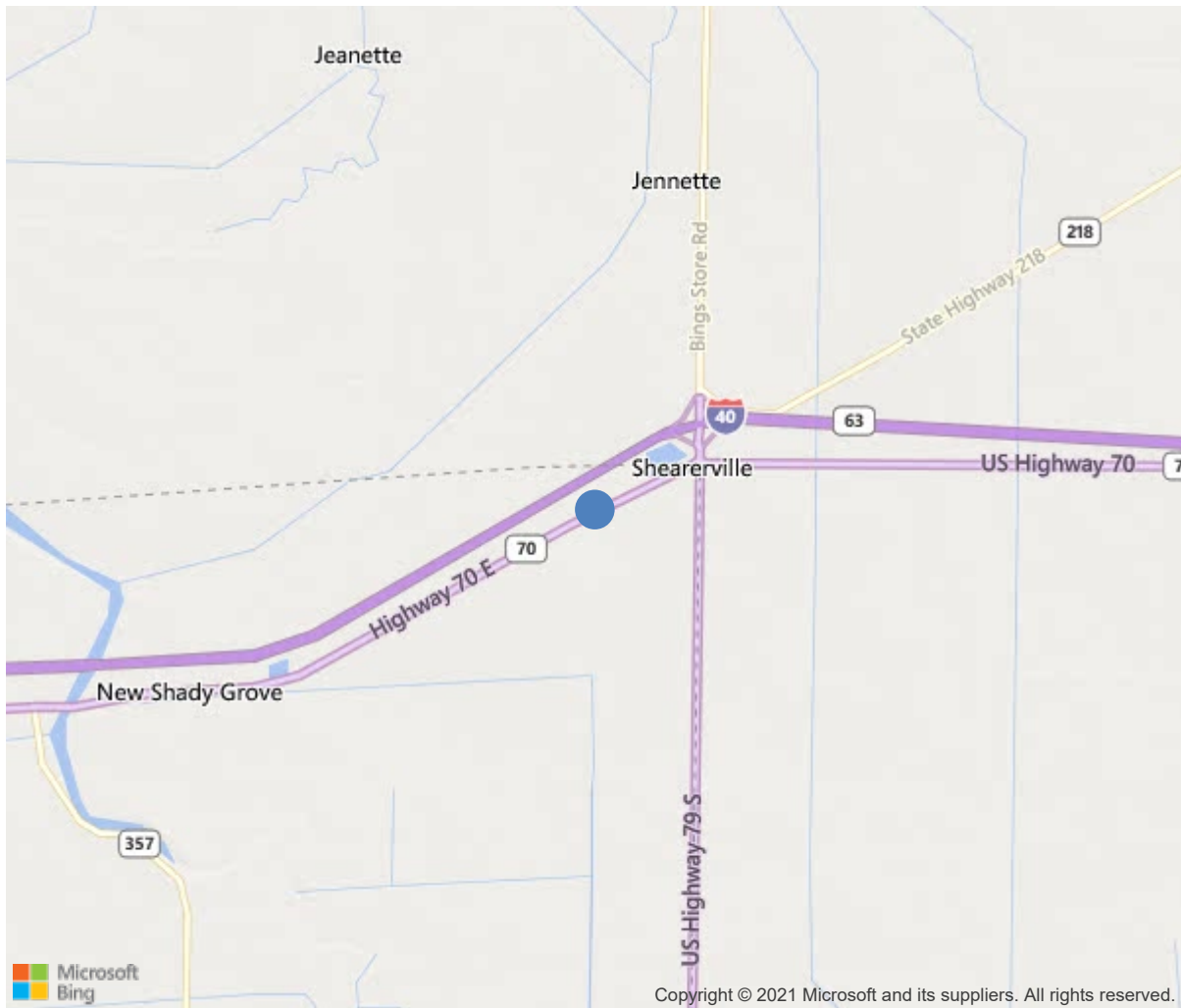
Route:70 Section:19 Log:24.49

Arnold Road ID:68x70x19xA, Arnold Log mile:24.46

District 01, St. Francis County

Owner: 1-State Highway Agency

.56 Mi Sw Crittenden Co



35.14477, -90.40947



Bridge #01380(Routine, Underwater type 2)

Us-70/sec-19/L24.9 over Drainage Canal

Location: .56 Mi Sw Crittenden Co

Team Lead: Myron Futrell Inspection Date: January 13, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	01380
(5) Inventory Route	70
(2) Highway Agency District	01
(3) County Code	123-St. Francis County, Arkansa
(4) Place Code	0
(6) Features Intersected	Drainage Canal
(7) Facility Carried	Us-70/sec-19/L24.9
(9) Location	.56 Mi Sw Crittenden Co
(11) Mile Point	24.49 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.144772
(17) Longitude	-90.40947
(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	1930
(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	1300
(30) Year of ADT	2014
(109) Truck ADT	18 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	35 ft
(49) Structure Length	35 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	27.6 ft
(52) Deck Width Out to Out	30.3 ft
(32) Approach Roadway Width (W/Shoulders)	40 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	27.6 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	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	7
(59) Superstructure	7
(60) Substructure	6
(61) Channel & Channel Protection	6
(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	46
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	1
Rating	28
(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	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0-Inspected feature does not meet cur
(36B) Transitions	1-Inspected feature meets currently a
(36C) Approach Guardrail	0-Inspected feature does not meet cur
(36D) Approach Guardrail Ends	1-Inspected feature meets currently a
(113) Scour Critical Bridges	4-Bridge foundations determined to be
PROPOSED IMPROVEMENTS	
(75) Type of Work	Replacement of bridge or other
(76) Length of Structure Improvement	58 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 125
(96) Total Project Cost	\$ 255
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	1331
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			01/2020
(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		
* The inspection date and frequency information in this box contains the current NBI date and frequency information. Please refer to the report header for the date this inspection was conducted.			

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	1050	1005	12	33	0
1080	Delamination/Spall/Patched Area	SF	10	0	10	0	0
1090	Exposed Rebar	SF	33	0	0	33	0
1120	Efflorescence/Rust Staining	SF	2	0	2	0	0
(16)							
Soffit overhangs have areas of delamination's and spalling twenty feet total spalling with 5% section loss ten feet delaminations . Interior bays have several small spalls each totaling ten feet with rebar exposed with 5% section loss. Bay #2 & #3 at abutment #2 has transverse cracks with light efflorescence. Soffit bay two has 4' by 3' area of exposed rebar.							
110	Reinforced Concrete Open Girder/Beam	LF	175	160	9	6	0
1080	Delamination/Spall/Patched Area	LF	5	0	5	0	0
1090	Exposed Rebar	LF	6	0	0	6	0
1120	Efflorescence/Rust Staining	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	3	0	3	0	0
(110)							
Girder #1 right side has 3' long longitudinal crack near top of girder near abutment #1. Girder #1 right side at abutment #2 has hairline vertical crack with light efflorescence. Girder #2 right side at abutment #1 has two 6" spalls with exposed rebar with 5% section loss and two feet of delaminations. Girder #3 left side has 5 small spalls with rebar exposed and three feet of delamination's.							
215	Reinforced Concrete Abutment	LF	67	64	3	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	2	0	2	0	0
(215)							
Space between girder #2 & #3, #4 & #5 each have a 6" spall with exposed rebar with 5% section loss. Bent #1 cap at pile #3 has two foot long crack on ahead face. Each abutment cap has hairline vertical cracks.							
227	Reinforced Concrete Pile	EA	10	10	0	0	0
331	Reinforced Concrete Bridge Railing	LF	70	62	4	4	0
1080	Delamination/Spall/Patched Area	LF	4	0	4	0	0
1090	Exposed Rebar	LF	4	0	0	4	0
(331)							
All end posts have minor spalling due to collision damage and cracks. Several posts are spalled with exposed rebar up to 5% section loss.							



Bridge #01380(Routine, Underwater type 2)

Us-70/sec-19/L24.9 over Drainage Canal

Location: .56 Mi Sw Crittenden Co

Team Lead: Myron Futrell **Inspection Date:** January 13, 2020

Maintenance Needs

Date Reported: 02/09/2012
Priority: C - Important
Type of Work: N/A
Status: Assigned
Component:

Deficiency Description

Approach slabs abutment #1 right side and abutment #2 both sides have voids under slabs at bridge ends up to 2' deep with minor amounts of settlement.

Remarks



Erosion under abutment #2 left approach gutter



Large void under approach slab abutment #1 right side.



Void under approach slab abutment #2 left side.



Monument post abutment #2 right side undermined



Large void under approach slab abutment #2 left side



Ab #1. Right approach gutter undermined



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Us-70/sec-19/L24.9 over Drainage Canal

Location: .56 Mi Sw Crittenden Co

Team Lead: Myron Futrell **Inspection Date:** January 13, 2020

Date Reported: 01/10/2017
Priority: C - Important
Type of Work: N/A
Status: Assigned
Component:

Deficiency Description

Sand bags at both abutments are in place but deteriorating allowing erosion to continue.

Remarks



Abutment #2



Abutment #1



Bridge #01380(Routine, Underwater type 2)

Us-70/sec-19/L24.9 over Drainage Canal

Location: .56 Mi Sw Crittenden Co

Team Lead: Myron Futrell **Inspection Date:** January 13, 2020

Date Reported: 01/05/2018
Priority: C - Important
Type of Work: N/A
Status: Assigned
Component:

Deficiency Description

Abutment #2 right approach rail is not connected to bridge.

Remarks



Abutment #2 right approach rail is not connected to bridge.

Date Reported: 01/14/2020
Priority: C - Important
Type of Work: Clean
Status: Open
Component: Channel

Deficiency Description

Small trees growing under and beside bridge.

Remarks



Small trees and vegetation growing beside and under bridge.



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Us-70/sec-19/L24.9 over Drainage Canal

Location: .56 Mi Sw Crittenden Co

Team Lead: Myron Futrell **Inspection Date:** January 13, 2020

Date Reported: 01/14/2020
Priority: C - Important
Type of Work: Clean
Status: Open
Component: Deck

Deficiency Description

Dirt and vegetation growing in gutters.

Remarks



Dirt and vegetation growing in gutters.



Bridge #01380(Routine, Underwater type 2)

Us-70/sec-19/L24.9 over Drainage Canal

Location: .56 Mi Sw Crittenden Co

Team Lead: Myron Futrell **Inspection Date:** January 13, 2020

Inspection Comments

Drawing nos. 1036, 1960, 1963.

01/09/2017-Special inspection to monitor deterioration of sand bags and continued erosion.

Abutment #2 right approach rail is not connected to bridge.

01/05/2018 Lowered substructure from 7 to 6 do to erosion at abutments.

01/05/2018 Removed special recurring inspection for abutments due to erosion stacked bags seem to be helping problem.

Approach slabs abutment #1 right side and abutment #2 both sides have voids under slabs at bridge ends up to 2' deep with minor amounts of settlement.

Abutment 2 left approach wall spalled at bridge end.

01-13-2020-Small trees an vegetation growing under and beside bridge.

01-13-2020-Gutters have dirt and vegetation growing in them.