



Latitude:36.07206, Longitude:-91.02813

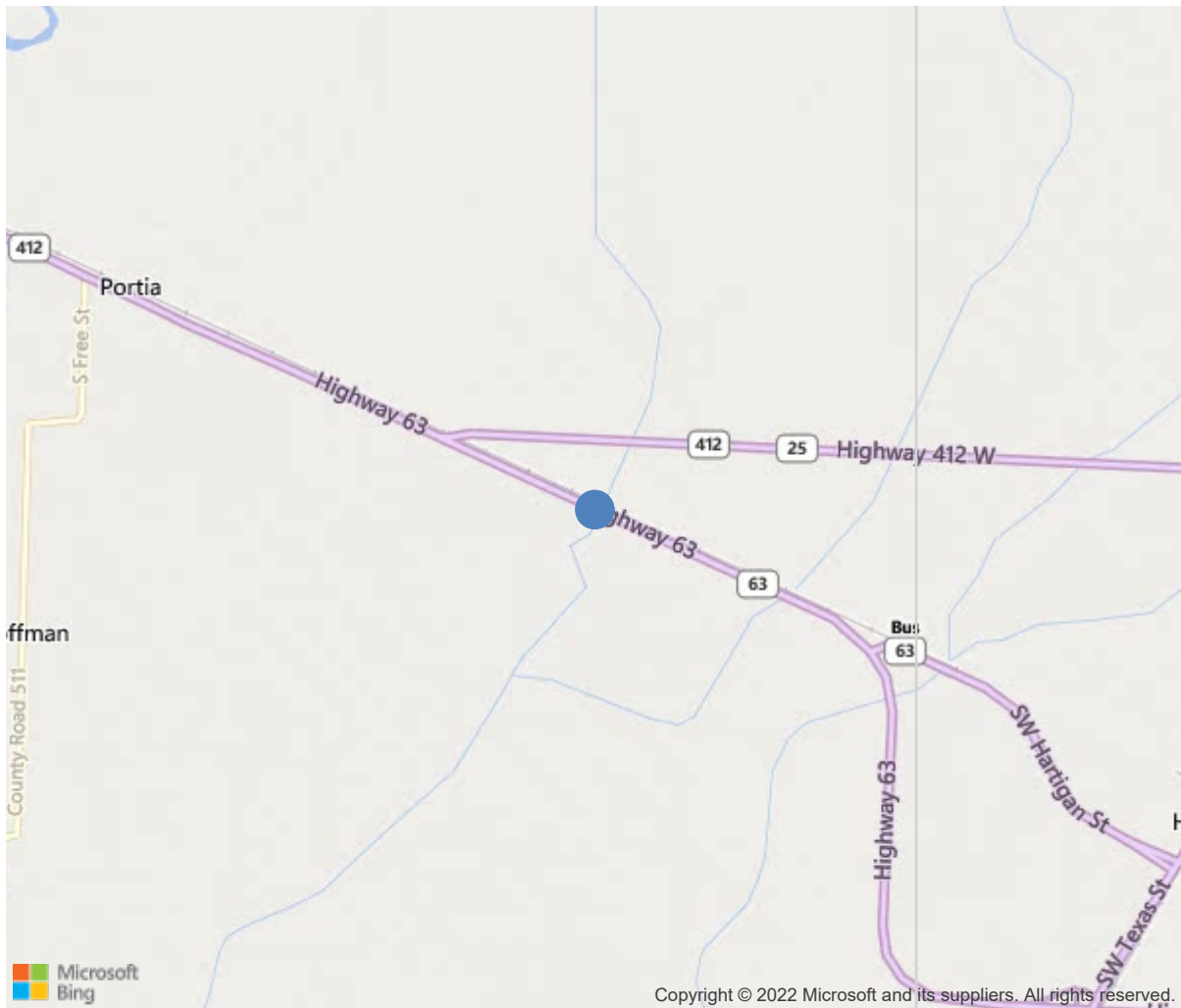
Route:63 Section:03 Log:20.34

Arnold Road ID:38x63x3xA, Arnold Log mile:20.254

District 10, Lawrence County

Owner: 1-State Highway Agency

3.4 M NW Jct. US 67



36.07206, -91.02813

Inspection Direction : N to S



Bridge #07161(Routine, Underwater type 2)

US 63 -03-LM20.34 over Big Running Water

Location: 3.4 M NW Jct. US 67

Team Lead: James Adams Inspection Date: April 13, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	07161
(5) Inventory Route	63
(2) Highway Agency District	10
(3) County Code	75-Lawrence County, Arkansas
(4) Place Code	0
(6) Features Intersected	Big Running Water
(7) Facility Carried	US 63 -03-LM20.34
(9) Location	3.4 M NW Jct. US 67
(11) Mile Point	20.34 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000000001
(16) Latitude	36.07206
(17) Longitude	-91.02813
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	42
Material	4-Steel continuous
Type	2-Stringer/Multi-beam or girder
(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	1-Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	2011
(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	7400
(30) Year of ADT	2018
(109) Truck ADT	29 %
(19) Bypass, Detour Length	6 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	105 ft
(49) Structure Length	221 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	75 ft
(52) Deck Width Out to Out	78.2 ft
(32) Approach Roadway Width (W/Shoulders)	90.9 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	76.4 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	0 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	1
(26) Functional Class	2-Rural Principal Arterial - Oth
(100) Defense Highway	2-The inventory route is on a No
(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	4-Historical significance is not dete
CONDITION	
(58) Deck	7
(59) Superstructure	7
(60) Substructure	8
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	A-HL93
(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	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1-Inspected feature meets currently a
(36B) Transitions	1-Inspected feature meets currently a
(36C) Approach Guardrail	1-Inspected feature meets currently a
(36D) 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	15000
(115) Year of Future ADT	2029

INSPECTIONS *			
(90) Inspection Date			04/2020
(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.			



Bridge #07161 (Routine, Underwater type 2)

US 63 -03-LM20.34 over Big Running Water

Location: 3.4 M NW Jct. US 67

Team Lead: James Adams, Inspection Date: April 13, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	17275	15307	1968	0	0
1120	Efflorescence/Rust Staining	SF	101	0	101	0	0
1130	Cracking (RC and Other)	SF	1867	0	1867	0	0
107	Steel Open Girder/Beam	LF	2210	2208	2	0	0
1020	Connection	LF	2	0	2	0	0
515	Steel Protective Coating	SF	25046	25023	23	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	SF	23	0	23	0	0
215	Reinforced Concrete Abutment	LF	202	202	0	0	0
225	Steel Pile	EA	22	22	0	0	0
515	Steel Protective Coating	SF	2903	2903	0	0	0
234	Reinforced Concrete Pier Cap	LF	154	149	5	0	0
1130	Cracking (RC and Other)	LF	5	0	5	0	0
302	Compression Joint Seal	LF	156	78	78	0	0
2320	Seal Adhesion	LF	78	0	78	0	0
310	Elastomeric Bearing	EA	40	33	0	7	0
1020	Connection	EA	2	0	0	2	0
2220	Alignment	EA	5	0	0	5	0
321	Reinforced Concrete Approach Slab	SF	4307	3352	0	955	0
1130	Cracking (RC and Other)	SF	955	0	0	955	0
331	Reinforced Concrete Bridge Railing	LF	442	418	24	0	0
1130	Cracking (RC and Other)	LF	24	0	24	0	0



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US 63 -03-LM20.34 over Big Running Water

Location: 3.4 M NW Jct. US 67

Team Lead: James Adams **Inspection Date:** April 13, 2020

Maintenance Needs

Date Reported: 05/10/2018
Priority: C - Important
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Lt approach rail at bent 1 has collision damage.

Remarks





Bridge #07161(Routine, Underwater type 2)

US 63 -03-LM20.34 over Big Running Water

Location: 3.4 M NW Jct. US 67

Team Lead: James Adams **Inspection Date:** April 13, 2020

Date Reported: 05/10/2018

Priority: G - General/ Preventive maintenance

Type of Work: None

Status: Monitor

Component:

Deficiency Description

Span 2 girder 1 splice 1 has 1 loose bolt on bottom flange.
Span 2 girder 10 splice 2 has 1 loose bolt on bottom flange.

Remarks



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Location: 3.4 M NW Jct. US 67

Team Lead: James Adams **Inspection Date:** April 13, 2020

Date Reported: 05/10/2018

Priority: G - General/ Preventive maintenance

Type of Work: None

Status: Monitor

Component:

Deficiency Description

Bearing 5 over bent 3 is missing 2 anchor nuts.

Bearing 6 over bent 3 is missing 2 anchor nuts.

Remarks



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US 63 -03-LM20.34 over Big Running Water

Location: 3.4 M NW Jct. US 67

Team Lead: James Adams **Inspection Date:** April 13, 2020

Date Reported: 05/10/2018

Priority: G - General/ Preventive maintenance

Type of Work: None

Status: Monitor

Component:

Deficiency Description

Embankment has some erosion and rip rap displacement near toe of slope under spans 1 and 3.

Remarks



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Location: 3.4 M NW Jct. US 67

Team Lead: James Adams **Inspection Date:** April 13, 2020

Date Reported: 05/10/2018

Priority: G - General/ Preventive maintenance

Type of Work: None

Status: Monitor

Component:

Deficiency Description

Deck has several unsealed longitudinal and transverse cracks.

Remarks



Bridge #07161 (Routine, Underwater type 2)

US 63 -03-LM20.34 over Big Running Water

Location: 3.4 M NW Jct. US 67

Team Lead: James Adams **Inspection Date:** April 13, 2020

Inspection Comments

-

Deck Notes

Left approach rail at bent 1 collision damage has been repaired.
Left and right bridge rails have several vertical cracks.
Approach slabs have several transverse and longitudinal cracks. Some have been sealed in the past.
Joints at bents 1 and 4 beginning to lose adhesion.
Deck has several unsealed longitudinal and transverse cracks.
Soffit has several transverse cracks with light efflorescence near center line.
Overhangs have several transverse cracks with efflorescence.

Superstructure Notes

Span 1 bent 1 girder 1 has some flaking rust near end of girder and at bearing sole plate.
Previous inspection showed span 1 bent 1 girders 6 - 10 pushed back toward abutment. Bumpers are pressed against backwall. Bearings have shifted toward backwall. Anchor bolts are at edge of expansion slots. Air temp at time of inspection was 72 F.
Inspection of 04-13-2020 showed anchor bolts to be centered in expansion slots with clearance between all girders & backwall at bent 1. Temperature at 10:57 AM was 48 degrees.
Span 1 girder 7 at bent 2 restrainer block has very little clearance between block & cap.
Span 2 girder 1 splice 1 has 1 loose bolt on bottom flange.
Span 2 girder 10 splice 2 has 1 loose bolt on bottom flange.
Bearing 5 over bent 3 is missing 2 anchor nuts.
Bearing 6 over bent 3 is missing 2 anchor nuts.

Substructure Notes

Caps and abutments have a few minor cracks.
Embankment has some erosion and rip rap displacement near toe of slope under spans 1 and 3.
Underwater type 2 inspection performed this report.