



Latitude:35.84286, Longitude:-90.75570

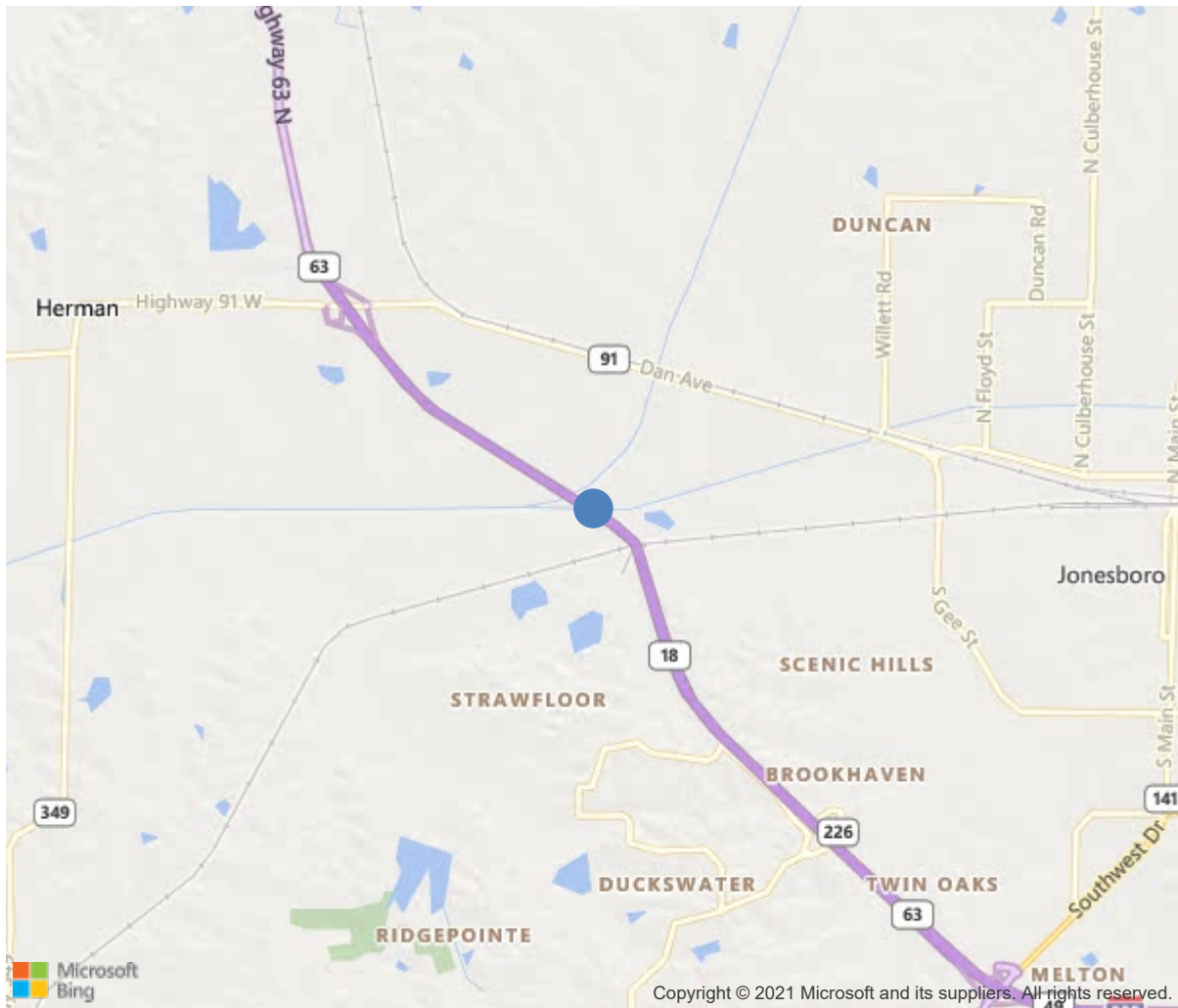
Route:555 Section:03 Log:48.186

Arnold Road ID:16x555x3xA, Arnold Log mile:48.186

District 10, Craighead County

Owner: 1-State Highway Agency

4.43 MI NW OF SH 1B



35.84286, -90.75570



Bridge #B5205(Routine)

I-555 over LOST CR.

Location: 4.43 MI NW OF SH 1B

Team Lead: Richard Jones Inspection Date: April 14, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	B5205
(5) Inventory Route	63
(2) Highway Agency District	10
(3) County Code	31-Craighead County, Arkansas
(4) Place Code	0
(6) Features Intersected	LOST CR.
(7) Facility Carried	US 63-06NB-LM10.62
(9) Location	4.43 MI NW OF SH 1B
(11) Mile Point	10.62 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.8428571261718
(17) Longitude	-90.7556995712613
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3-Steel
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	6-Bituminous
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1970
(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	10500
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	68 ft
(49) Structure Length	207.6 ft
(50) Curb or Sidewalk Width	
Left	0.4 ft
Right	0.4 ft
(51) Bridge Roadway Width Curb to Curb	39 ft
(52) Deck Width Out to Out	42.3 ft
(32) Approach Roadway Width (W/Shoulders)	44 ft
(33) Bridge Median	0-No median
(34) Skew	55 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	39.7 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	12-Urban Principal Arterial - Oth
(100) Defense Highway	2-The inventory route is on a No
(101) Parallel Structure	L-The left structure of parallel
(102) Direction of Traffic	1 - 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	5
(59) Superstructure	6
(60) Substructure	5
(61) Channel & Channel Protection	4
(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	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	5
(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	0
(114) Future ADT	11407
(115) Year of Future ADT	2028

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	Yes		03/2021
* 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 #B5205(Routine)

I-555 over LOST CR.

Location: 4.43 MI NW OF SH 1B

Team Lead: Richard Jones, Inspection Date: April 14, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	8364	3471	4893	0	0
1080	Delamination/Spall/Patched Area	SF	3241	0	3241	0	0
1090	Exposed Rebar	SF	170	0	170	0	0
1130	Cracking (RC and Other)	SF	1482	0	1482	0	0
510	Wearing Surfaces	SF	7956	7951	2	3	0
3210	Delam/Spall/Patched Area/Pothole	SF	5	0	2	3	0
107	Steel Open Girder/Beam	LF	1428	633	732	63	0
1000	Corrosion	LF	795	0	732	63	0
515	Steel Protective Coating	SF	13145	0	7222	5258	665
3440	Effectiveness (Steel Protective Coatings)	SF	13145	0	7222	5258	665
215	Reinforced Concrete Abutment	LF	168	168	0	0	0
227	Reinforced Concrete Pile	EA	16	16	0	0	0
234	Reinforced Concrete Pier Cap	LF	137	93	21	23	0
1080	Delamination/Spall/Patched Area	LF	21	0	21	0	0
1090	Exposed Rebar	LF	18	0	0	18	0
1120	Efflorescence/Rust Staining	LF	5	0	0	5	0
302	Compression Joint Seal	LF	285	0	0	213	72
2320	Seal Adhesion	LF	72	0	0	0	72
2350	Debris Impaction	LF	213	0	0	213	0
311	Movable Bearing	EA	21	0	0	21	0
1000	Corrosion	EA	21	0	0	21	0
313	Fixed Bearing	EA	21	0	0	21	0
1000	Corrosion	EA	21	0	0	21	0
321	Reinforced Concrete Approach Slab	SF	1752	1752	0	0	0
510	Wearing Surfaces	SF	1752	1752	0	0	0
330	Metal Bridge Railing	LF	408	408	0	0	0
331	Reinforced Concrete Bridge Railing	LF	408	392	16	0	0
1090	Exposed Rebar	LF	16	0	16	0	0



Wearing surface



Soffit

Maintenance Needs

Date Reported: 04/18/2012
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Deck

Deficiency Description

Concrete deck has been noted in past inspections as having several cracks, delaminated and patched areas, and spalls with some rebar exposed.

Asphalt wearing surface has a few potholes in Rt lane at span 2. Exposed deck has some rebar exposed.

Remarks





Span 2



Span 2



Bridge #B5205(Routine)

I-555 over LOST CR.

Location: 4.43 MI NW OF SH 1B

Team Lead: Richard Jones **Inspection Date:** April 14, 2020

Date Reported: 04/18/2012
Priority: C - Important
Type of Work: Replace
Status: Monitor
Component: 302 - Compression Joint Seal

Deficiency Description

Compression seals are covered with asphalt. Bent 3 seal is missing.

Remarks



Bridge #B5205(Routine)

I-555 over LOST CR.

Location: 4.43 MI NW OF SH 1B

Team Lead: Richard Jones **Inspection Date:** April 14, 2020

Date Reported: 04/18/2012
Priority: C - Important
Type of Work: Clean
Status: Monitor
Component: Superstructure

Deficiency Description

Steel girders have freckled surface rust thru out.

Girders at end bents have areas of flaking rust with some initial section loss on ends.

Ends of girders over bents 2 and 3 have up to 5' of flaking rust with some minor section loss along bottom of web, bottom flange, and/or web below haunch.

Remarks

Date Reported: 04/18/2012
Priority: C - Important
Type of Work: Clean
Status: Monitor
Component: Superstructure

Deficiency Description

Bent 2 moveable bearings have heavy pack rust and section loss.
Bent 3 bearings are covered with asphalt debris.

Remarks



Bent 3

Date Reported: 04/18/2012
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: 234 - Reinforced Concrete Pier Cap

Deficiency Description

Bent 2 cap has several cracked/delaminated areas and spalls with rebar exposed. Cap has wide cracks/delaminated areas on bottom of cap from pile 3 to pile 5.

Bent 3 cap has a few cracked/delaminated areas, and a few spalls with rebar exposed.

Remarks



Bent 2 cap



Bent 2 at pile 4

Date Reported: 04/18/2012
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Channel

Deficiency Description

Embankment under span 3 and on Lt side of bridge has on-going erosion. Rip rap and broken concrete placed on Rt side has slid down slope and is resting against bent 3 piles. Broken concrete is catching drift. Approximately 5' – 10' of berm remains in front of bent 4.

Remarks



3/5/19 - Bent 4 embankment



Bent 3



Span 3



Bridge #B5205(Routine)

I-555 over LOST CR.

Location: 4.43 MI NW OF SH 1B

Team Lead: Richard Jones **Inspection Date:** April 14, 2020

Date Reported: 04/09/2013
Priority: C - Important
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Bent 3 has lost approx. 6.8 feet of pile penetration since original channel profile.

Remarks



Bridge #B5205(Routine)

I-555 over LOST CR.

Location: 4.43 MI NW OF SH 1B

Team Lead: Richard Jones Inspection Date: April 14, 2020

Inspection Comments

Deck Notes

Concrete approach slabs have been noted as having moderate width cracking in past inspections. Approach slabs are covered with asphalt.

Compression seals are covered with asphalt. Bent 3 seal is missing.

Metal bridge rail is in overall good condition.

Rt concrete bridge rail has 16 ft. of rebar exposed at span 1.

Concrete deck has been noted in past inspections as having several cracks, delaminated and patched areas, and spalls with some rebar exposed.

Asphalt wearing surface has a few potholes in Rt lane at span 2. Exposed deck has some rebar exposed.

Superstructure Notes

Steel girders have freckled surface rust thru out.

Girders at end bents have areas of flaking rust with some initial section loss on ends.

Ends of girders over bents 2 and 3 have up to 5' of flaking rust with some minor section loss along bottom of web, bottom flange, and/or web below haunch.

Bent 2 moveable bearings have heavy pack rust and section loss.

Bent 3 bearings are covered with asphalt debris.

Substructure Notes

Bent 2 cap has several cracked/delaminated areas and spalls with rebar exposed. Cap has wide cracks/delaminated areas on bottom of cap from pile 3 to pile 5.

Bent 3 cap has a few cracked/delaminated areas, and a few spalls with rebar exposed.

Embankment under span 1 was lined with rip rap in 2017. Undermined cap at bent 1 was repaired with hand placed rip rap.

Embankment under span 3 and on Lt side of bridge has on-going erosion. Rip rap and broken concrete placed on Rt side has slid down slope and is resting against bent 3 piles. Broken concrete is catching drift. Approximately 5' – 10' of berm remains in front of bent 4.