



Latitude:36.25922, Longitude:-90.17544

Route:90 Section:01 Log:4.17

Arnold Road ID:11x90x1xA, Arnold Log mile:4.13

District 10, Clay County

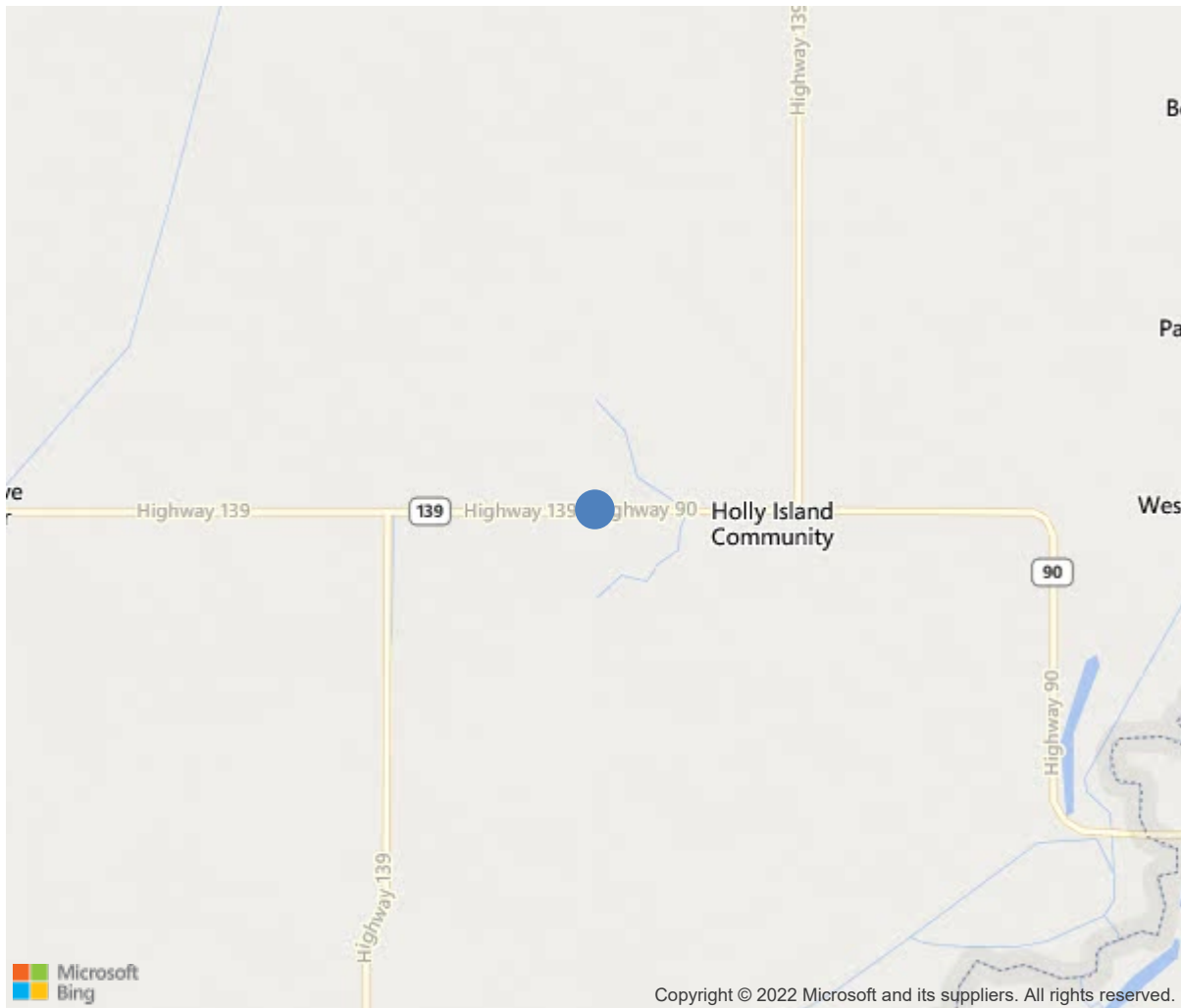
Owner: 1-State Highway Agency



Bridge #03663(Routine)
SH 90-01- LM 4.17 over DITCH NO. 10
Location: 6.1 MI E OF RECTOR, ARK.

Team Lead: Tim Myrick **Inspection Date:** November 11, 2020

6.1 MI E OF RECTOR, ARK.



36.25922, -90.17544



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Location: 6.1 MI E OF RECTOR, ARK.

Team Lead: Tim Myrick Inspection Date: November 11, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03663
(5) Inventory Route	90
(2) Highway Agency District	10
(3) County Code	21-Clay County, Arkansas
(4) Place Code	0
(6) Features Intersected	DITCH NO. 10
(7) Facility Carried	SH 90-01- LM 4.17
(9) Location	6.1 MI E OF RECTOR, ARK.
(11) Mile Point	4.17 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000090010
(16) Latitude	36.2592180037315
(17) Longitude	-90.175444635582
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	11
Material	1-Concrete
Type	1-Slab
(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	1963
(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	1900
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	3 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	75 ft
(50) Curb or Sidewalk Width	
Left	1.3 ft
Right	1.3 ft
(51) Bridge Roadway Width Curb to Curb	27.9 ft
(52) Deck Width Out to Out	33.5 ft
(32) Approach Roadway Width (W/Shoulders)	37.1 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	29.5 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	0
(26) Functional Class	6-Rural Minor Arterial
(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	0-The inventory route is not part of
(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	7
(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	59
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	3
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	5
(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	0-Inspected feature does not meet cur
(36C) Approach Guardrail	0-Inspected feature does not meet cur
(36D) 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	2412
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			11/2020
(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.			



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	2250	1779	425	46	0
1080	Delamination/Spall/Patched Area	SF	12	0	0	12	0
1090	Exposed Rebar	SF	3	0	0	3	0
1120	Efflorescence/Rust Staining	SF	1	0	0	1	0
1130	Cracking (RC and Other)	SF	355	0	325	30	0
1190	Abrasion/Wear (PSC/RC)	SF	100	0	100	0	0
510	Wearing Surfaces	SF	2100	1175	475	450	0
3220	Crack (Wearing Surface)	SF	925	0	475	450	0
215	Reinforced Concrete Abutment	LF	75	69	1	5	0
1130	Cracking (RC and Other)	LF	1	0	1	0	0
6000	Scour	LF	5	0	0	5	0
227	Reinforced Concrete Pile	EA	10	10	0	0	0
234	Reinforced Concrete Pier Cap	LF	61	7	18	36	0
1080	Delamination/Spall/Patched Area	LF	11	0	0	11	0
1090	Exposed Rebar	LF	7	0	0	7	0
1120	Efflorescence/Rust Staining	LF	10	0	0	10	0
1130	Cracking (RC and Other)	LF	26	0	18	8	0
301	Pourable Joint Seal	LF	67	67	0	0	0
330	Metal Bridge Railing	LF	150	146	0	4	0
7000	Damage	LF	4	0	0	4	0
515	Steel Protective Coating	SF	507	450	0	0	57
3440	Effectiveness (Steel Protective Coatings)	SF	57	0	0	0	57







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Location: 6.1 MI E OF RECTOR, ARK.

Team Lead: Tim Myrick **Inspection Date:** November 11, 2020

Maintenance Needs

Date Reported: 12/04/2012
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Component: Substructure

Deficiency Description

Ends of slabs over Bents 2 & 3 have A few diagonal cracks with efflorescence.

Remarks



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Date Reported: 12/04/2012
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Component: Superstructure

Deficiency Description

Bottom of Concrete Slabs has insignificant size and minor density cracks thru concrete.

Remarks

Date Reported: 12/04/2012
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Superstructure

Deficiency Description

Bottom of Concrete Slab Span 3 near Bent 3 Cap has a 1.5 ft. x 5 ft. x 1 in. deep area and a 6 in. x 4 in. x 1 in. deep area shelled out with exposed rebar.

Remarks



Span 3 soffit near bent 3

Date Reported: 12/04/2012
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Substructure

Deficiency Description

5ft. right end of Abutment Bent 4 Cap is beginning to undermine from roadway runoff.

Remarks





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Team Lead: Tim Myrick **Inspection Date:** November 11, 2020

Date Reported: 12/04/2012

Priority: D- Routine

Type of Work: Repair

Status: Monitor

Component: Deck

Deficiency Description

Concrete Curbs have some abrasive wear, especially Span 2.
Top of Concrete Slabs Asphalt Overlay has minor size and density cracks in asphalt.

Remarks

Date Reported: 12/04/2012
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Substructure

Deficiency Description

Ends of Caps Bents 2&3 have some deterioration & cracking with rebar exposed, no loss of bearing area at this time. Face and Bottom of Caps Bents 2&3 have several very small popouts with rebar exposed, due to inadequate coverage of steel placement. Face of Caps Bents 2&3 have some areas of cracking with impending spalls.

Remarks



Bent 2 LT end



Date Reported: 11/26/2014
Priority: G - General/ Preventive maintenance
Type of Work: Repair
Status: Monitor
Component: Deck

Deficiency Description

Left side and bottom of Concrete Deck Span 2 has several cracks in concrete with some rebar exposed, see 2018 photo.

Remarks



LT edge span 2



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Team Lead: Tim Myrick **Inspection Date:** November 11, 2020

Inspection Comments

-

Deck Notes

Concrete bridge rail post & end post have moderate abrasion & exposed rebar, especially end post.

Concrete Curbs have some abrasive wear, especially Span 2.

Top of concrete slabs with asphalt overlay has moderate width cracks in asphalt.

Bottom of concrete slabs has minor cracks thru concrete.

Span 2 left edge and bottom of deck has a 6 ft. area of cracks and some exposed rebar.

Superstructure Notes

Ends of slabs near bents 2 & 3 have a few diagonal cracks with efflorescence.

Bottom of slab span 1 has two spall near bent 1 and span 3 near bent 3 cap has a 1.5 ft. x 5 ft. x 1 in. deep area and a 6 in. x 4 in. x 1 in. deep area spalled with exposed rebar.

Substructure Notes

Ends of bents 2&3 caps have some deterioration & cracking with exposed rebar, no loss of bearing area at this time.

Face and bottom of caps bents 2 & 3 have several very small pop outs with exposed rebar, due to inadequate coverage of steel placement.

Face of caps bents 2 & 3 have some areas of cracking with impending spalls.

Bent 1 abutment has 1 vertical crack.

5 ft. right end of Bent 4 Cap is beginning to undermine from roadway runoff, 1 ft. below & 2.5 ft. back under abutment.