



Bridge #06972(Routine)
US 412-09- LM 7.65 over ST FRANCIS RIVER RELIEF
Location: .59 MI W of Missouri Lin
Team Lead: Tim Myrick Inspection Date: September 01, 2021



Latitude:36.04913, Longitude:-90.35281

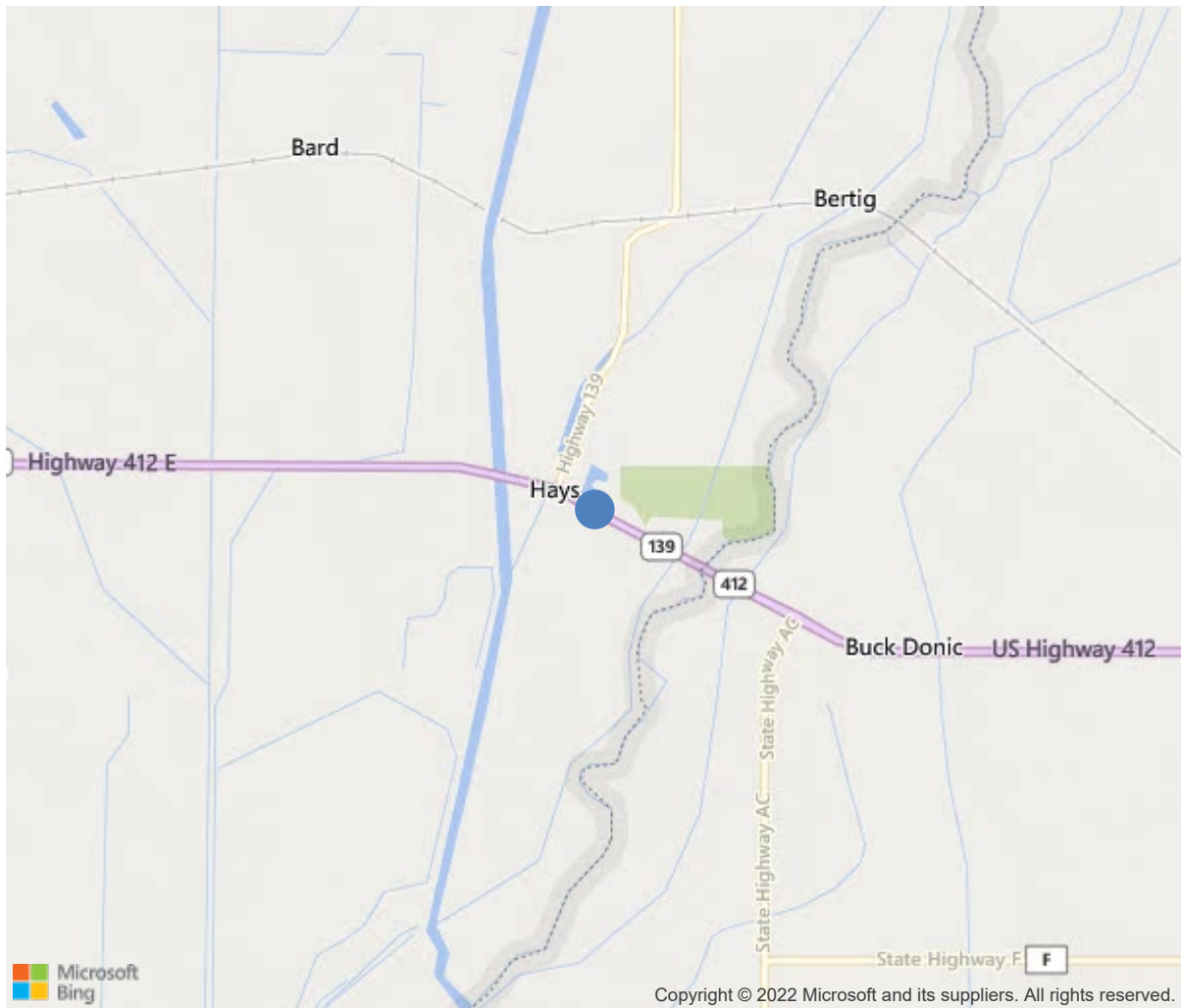
Route:412 Section:09 Log:7.65

Arnold Road ID:28x412x9xA, Arnold Log mile:7.648

District 10, Greene County

Owner: 1-State Highway Agency

.59 MI W of Missouri Lin



36.04913, -90.35281



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	06972
(5) Inventory Route	412
(2) Highway Agency District	10
(3) County Code	55-Greene County, Arkansas
(4) Place Code	0
(6) Features Intersected	ST FRANCIS RIVER RELIEF
(7) Facility Carried	US 412-09- LM 7.65
(9) Location	.59 MI W of Missouri Lin
(11) Mile Point	7.65 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000412090
(16) Latitude	36.0491310823715
(17) Longitude	-90.3528129847844
(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	7
(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	2005
(106) Year Reconstructed	0
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	4
Under	0
(29) Average Daily Traffic	7600
(30) Year of ADT	2014
(109) Truck ADT	14 %
(19) Bypass, Detour Length	10 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	68 ft
(49) Structure Length	462 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	75.1 ft
(52) Deck Width Out to Out	78.2 ft
(32) Approach Roadway Width (W/Shoulders)	75.1 ft
(33) Bridge Median	1-Open 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	76.1 ft
(53) Min Vert Clear Over Bridge Rdwy	99.9 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	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	14-Urban Other Principal 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	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	8
(60) Substructure	8
(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	60
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	7
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	8
(68) Deck Geometry	9
(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	9236
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			09/2021
(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
12	Reinforced Concrete Deck	SF	36141	31998	4143	0	0
1120	Efflorescence/Rust Staining	SF	277	0	277	0	0
1130	Cracking (RC and Other)	SF	3866	0	3866	0	0
107	Steel Open Girder/Beam	LF	4600	4600	0	0	0
515	Steel Protective Coating	SF	47178	47178	0	0	0
215	Reinforced Concrete Abutment	LF	200	192	8	0	0
1120	Efflorescence/Rust Staining	LF	8	0	8	0	0
225	Steel Pile	EA	72	72	0	0	0
234	Reinforced Concrete Pier Cap	LF	468	468	0	0	0
300	Strip Seal Expansion Joint	LF	154	0	154	0	0
2350	Debris Impaction	LF	154	0	154	0	0
310	Elastomeric Bearing	EA	80	80	0	0	0
321	Reinforced Concrete Approach Slab	SF	4307	4067	240	0	0
1130	Cracking (RC and Other)	SF	240	0	240	0	0
331	Reinforced Concrete Bridge Railing	LF	925	545	380	0	0
1120	Efflorescence/Rust Staining	LF	380	0	380	0	0







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Location: .59 MI W of Missouri Lin

Team Lead: Tim Myrick **Inspection Date:** September 01, 2021

Maintenance Needs

Date Reported: 08/15/2011

Priority: D- Routine

Type of Work: Repair

Status: Monitor

Component: Deck

Deficiency Description

Top of deck Insignificant size and minor density cracks top of deck

Remarks



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Location: .59 MI W of Missouri Lin

Team Lead: Tim Myrick **Inspection Date:** September 01, 2021

Date Reported: 08/15/2011

Priority: D- Routine

Type of Work: Repair

Status: Monitor

Component: Approach

Deficiency Description

Approach slab Minor size and insignificant density cracks top of approach slabs.

Remarks



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Location: .59 MI W of Missouri Lin

Team Lead: Tim Myrick **Inspection Date:** September 01, 2021

Date Reported: 08/05/2015
Priority: C - Important
Type of Work: Clean
Status: Monitor
Component: Channel

Deficiency Description

Channel trees and small brush under bridge.

Remarks

copy to Greene crew



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Deck Notes

Superstructure checked with snoopers.
Approach slab has a few minor cracks.
Concrete bridge rail has some cracks with efflorescence.
Top of deck has insignificant size and density cracks.
Concrete portion of deck soffit has a few cracks with light efflorescence.
Strip seal bents 1&8 are partially filled with dirt.
Concrete portion of soffit has a few cracks with efflorescence.

Superstructure Notes

Weathering steel girders are in very good condition.
Several restrainer blocks on ahead side of spans are touching cap or have very little clearance.

Substructure Notes

Caps & piles are in very good condition.
Bent 1 concrete abutment has moderate width cracks with efflorescence.
Brush growing in channel with several small trees growing beside bridge.