



Latitude:36.05236, Longitude:-90.38074

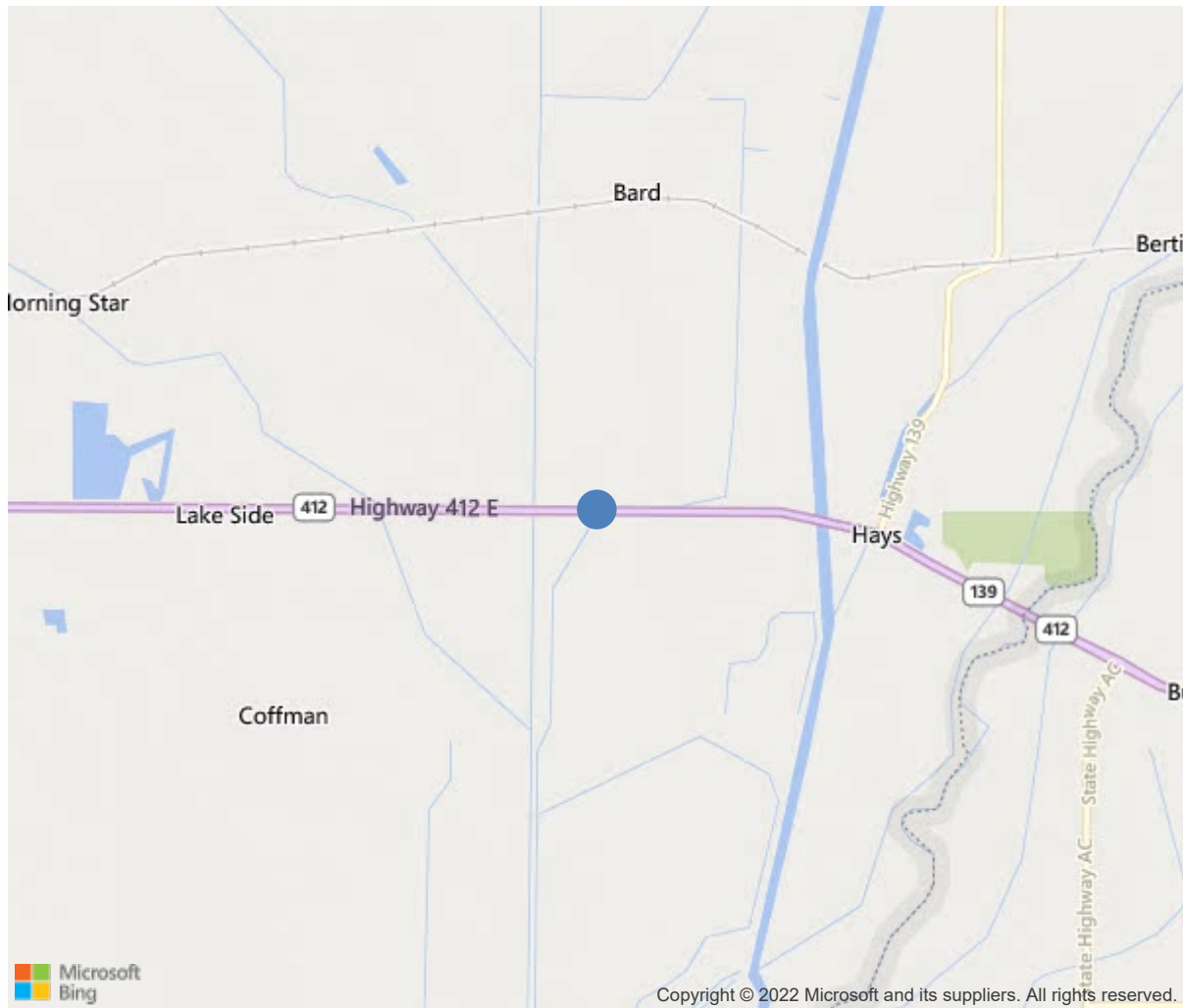
Route:412 Section:09 Log:6.05

Arnold Road ID:28x412x9xA, Arnold Log mile:6.045

District 10, Greene County

Owner: 1-State Highway Agency

2.20 MI W of MO STATE LN



36.05236, -90.38074



Bridge #07041(Routine)

US 412-09-LM 6.05 over Mud Slough

Location: 2.20 MI W of MO STATE LN

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

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	07041
(5) Inventory Route	412
(2) Highway Agency District	10
(3) County Code	55-Greene County, Arkansas
(4) Place Code	0
(6) Features Intersected	Mud Slough
(7) Facility Carried	US 412-09-LM 6.05
(9) Location	2.20 MI W of MO STATE LN
(11) Mile Point	6.05 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	36.05236
(17) Longitude	-90.38074
(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	1-Monolithic Concrete (concurrently placed
Type of Membrane	0-None
Type of Deck Protection	1-Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	2008
(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	8700
(30) Year of ADT	2018
(109) Truck ADT	11 %
(19) Bypass, Detour Length	4 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	34 ft
(49) Structure Length	91 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)	75.1 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	76.1 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	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	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	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	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	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	10307
(115) Year of Future ADT	2025

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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Location: 2.20 MI W of MO STATE LN

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

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	7035	6305	638	92	0
1120	Efflorescence/Rust Staining	SF	92	0	0	92	0
1130	Cracking (RC and Other)	SF	638	0	638	0	0
107	Steel Open Girder/Beam	LF	810	810	0	0	0
515	Steel Protective Coating	SF	6749	6749	0	0	0
215	Reinforced Concrete Abutment	LF	176	170	0	6	0
1120	Efflorescence/Rust Staining	LF	6	0	0	6	0
225	Steel Pile	EA	18	18	0	0	0
515	Steel Protective Coating	SF	283	263	20	0	0
3440	Effectiveness (Steel Protective Coatings)	SF	20	0	20	0	0
234	Reinforced Concrete Pier Cap	LF	154	154	0	0	0
310	Elastomeric Bearing	EA	18	18	0	0	0
321	Reinforced Concrete Approach Slab	SF	4307	3283	0	1024	0
1130	Cracking (RC and Other)	SF	1024	0	0	1024	0
331	Reinforced Concrete Bridge Railing	LF	182	159	15	8	0
1120	Efflorescence/Rust Staining	LF	8	0	0	8	0
1130	Cracking (RC and Other)	LF	15	0	15	0	0







Bridge #07041 (Routine)

US 412-09-LM 6.05 over Mud Slough

Location: 2.20 MI W of MO STATE LN

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

Maintenance Needs

Date Reported: 08/15/2011
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Deck

Deficiency Description

Top of Concrete Deck has insignificant size and density cracks top of deck.

Remarks



Bridge #07041 (Routine)
US 412-09-LM 6.05 over Mud Slough
Location: 2.20 MI W of MO STATE LN

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

Date Reported: 08/15/2011
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Approach

Deficiency Description

Approach Slabs have moderate size and insignificant density cracks.

Remarks



Bridge #07041 (Routine)
US 412-09-LM 6.05 over Mud Slough
Location: 2.20 MI W of MO STATE LN

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

Date Reported: 08/07/2013
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Component: Deck

Deficiency Description

Bottom of Concrete Deck has insignificant size and density cracks with light efflorescence, bottom of deck bay 4 near centerline, no stay in place decking on bay 4.

Remarks



Bridge #07041 (Routine)
US 412-09-LM 6.05 over Mud Slough
Location: 2.20 MI W of MO STATE LN

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

Date Reported: 08/19/2019
Priority: D- Routine
Type of Work: Clean
Status: Assigned
Component: Channel

Deficiency Description

Trees & brush on channel banks, small trees growing next to bridge.

Remarks

to Greene Co Crew for removal KAW 4-23-20



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

Deck Notes

Approach slabs have moderate size cracks.
Concrete bridge railing has some cracking, some with efflorescence.
Concrete deck has moderate width cracks.
Soffit portion of deck bay 4 near centerline has moderate width cracks with efflorescence.

Superstructure Notes

Weathering steel girders have tightly bonded light rust in good condition.

Substructure Notes

Concrete abutments have vertical cracks with efflorescence in back wall & cap portions of abutments.
CMP pile encasements have minor rust near ground line.
Minor erosion at left & right ends of bents 1 & 4 abutments due to roadway runoff.
Trees & brush on channel banks, small trees growing next to bridge.