



Latitude:36.05182, Longitude:-90.36215

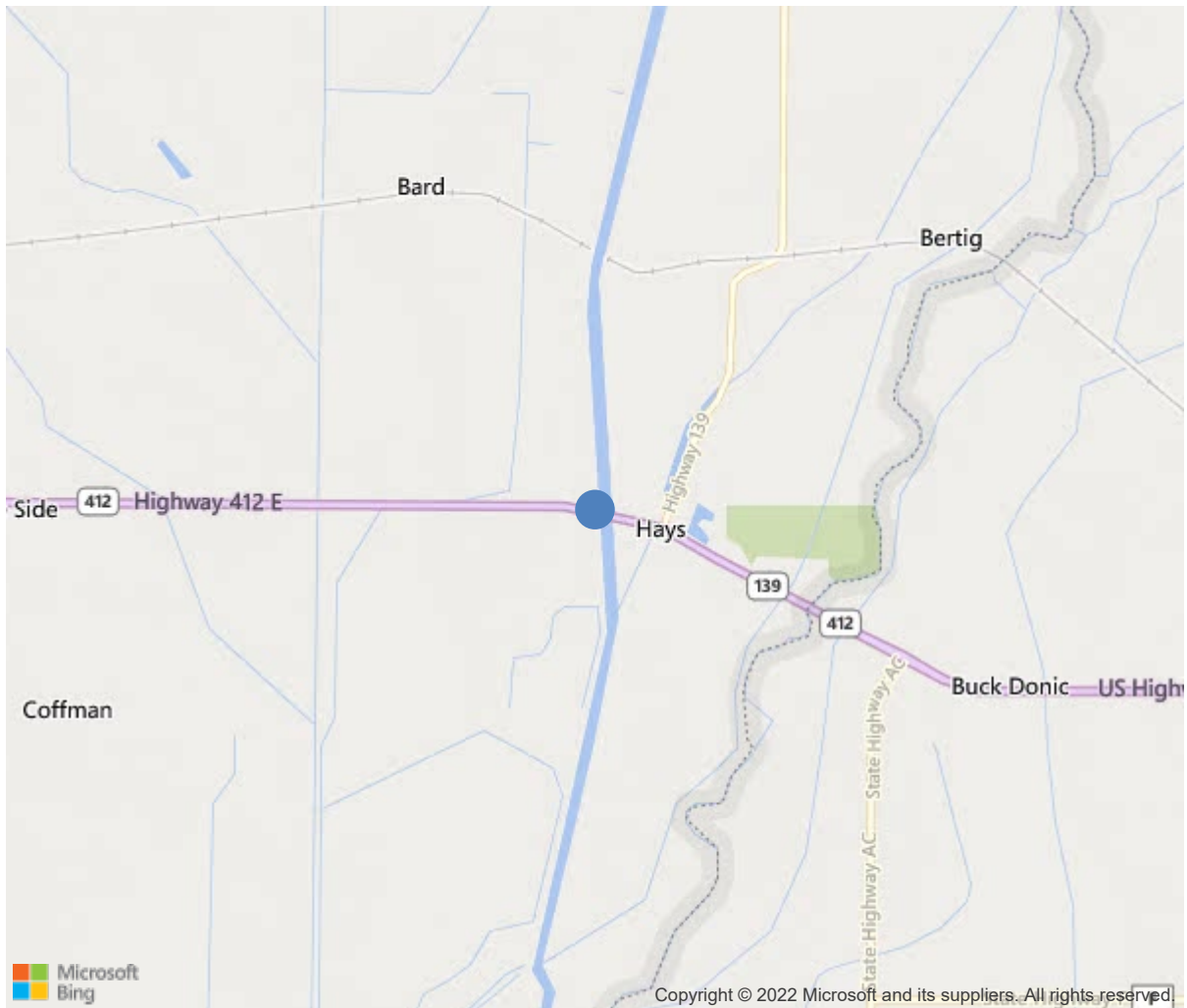
Route:412 Section:09 Log:11.308

Arnold Road ID:28x412x9xA, Arnold Log mile:11.308

District 10, Greene County

Owner: 1-State Highway Agency

1.11 Mi. W. Missouri Line



36.05182, -90.36215



Bridge #06971(Routine)

US 412-09- LM 7.09 over BIG SLOUGH

Location: 1.11 Mi. W. Missouri Line

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

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	06971
(5) Inventory Route	412
(2) Highway Agency District	10
(3) County Code	55-Greene County, Arkansas
(4) Place Code	0
(6) Features Intersected	BIG SLOUGH
(7) Facility Carried	US 412-09- LM 7.09
(9) Location	1.11 Mi. W. Missouri Line
(11) Mile Point	11.308 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000412090
(16) Latitude	36.05182
(17) Longitude	-90.36215
(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	8700
(30) Year of ADT	2018
(109) Truck ADT	11 %
(19) Bypass, Detour Length	7 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	99.99 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	7
(61) Channel & Channel Protection	8
(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	7
(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	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.			



Bridge #06971 (Routine)

US 412-09- LM 7.09 over BIG SLOUGH

Location: 1.11 Mi. W. Missouri Line

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

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	35957	29572	6093	292	0
1120	Efflorescence/Rust Staining	SF	64	0	64	0	0
1130	Cracking (RC and Other)	SF	6321	0	6029	292	0
107	Steel Open Girder/Beam	LF	4600	4600	0	0	0
515	Steel Protective Coating	SF	47426	47426	0	0	0
215	Reinforced Concrete Abutment	LF	200	200	0	0	0
225	Steel Pile	EA	72	72	0	0	0
515	Steel Protective Coating	SF	5438	5428	0	10	0
7000	Damage	SF	10	0	0	10	0
234	Reinforced Concrete Pier Cap	LF	468	468	0	0	0
300	Strip Seal Expansion Joint	LF	154	154	0	0	0
310	Elastomeric Bearing	EA	80	80	0	0	0
321	Reinforced Concrete Approach Slab	SF	4307	3528	369	410	0
1080	Delamination/Spall/Patched Area	SF	2	0	0	2	0
1130	Cracking (RC and Other)	SF	777	0	369	408	0
331	Reinforced Concrete Bridge Railing	LF	924	854	70	0	0
1120	Efflorescence/Rust Staining	LF	70	0	70	0	0







Bridge #06971 (Routine)
US 412-09- LM 7.09 over BIG SLOUGH
Location: 1.11 Mi. W. Missouri Line

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 density cracks top of deck.

Remarks



Bridge #06971 (Routine)
US 412-09- LM 7.09 over BIG SLOUGH
Location: 1.11 Mi. W. Missouri Line

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

Remarks

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

Deficiency Description

Bent 3 pile 1 encasement has an 8in. x 6in. x 1/2in. deep spalled area.
Bent 3 pile 4 encasement has an 8in. x 6in. x 3in. deep spalled area with exposed rebar.
Bent 3 pile 5 encasement has a 6in. x 4in. x up to 2in. deep spall and delaminated areas with exposed rebar near water line.
Bent 5 piles 7,8 & 10 encasement has a 6in. x 2in. deep spalled area.
Bent 6 piles 9 & 10 encasement 1ft. x 6ft. honeycomb spalled area at water line with exposed rebar.

Remarks





Bridge #06971 (Routine)
US 412-09- LM 7.09 over BIG SLOUGH
Location: 1.11 Mi. W. Missouri Line

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

Date Reported: 08/17/2017
Priority: D- Routine
Type of Work: Clean
Status: Monitor
Component: Channel

Deficiency Description

Large drift at Bents 4&5.

Remarks



Drift at bent 4 & 5



B4



Bridge #06971 (Routine)
US 412-09- LM 7.09 over BIG SLOUGH
Location: 1.11 Mi. W. Missouri Line

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

Date Reported: 08/20/2019
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Component: Approach

Deficiency Description

Bent 1 approach slab has a 2 ft. spall in left lane near bent.

Remarks



Bridge #06971 (Routine)
US 412-09- LM 7.09 over BIG SLOUGH
Location: 1.11 Mi. W. Missouri Line

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

Date Reported: 08/20/2019
Priority: C - Important
Type of Work: Repair
Status: Assigned
Component: Approach

Deficiency Description

Approach guard rail break away cable & terminal are broken at south east corner.

Remarks

review with Bridge Crew and possibly repair with Contract forces. KAW 8/22/19



Bridge #06971 (Routine)
US 412-09- LM 7.09 over BIG SLOUGH

Location: 1.11 Mi. W. Missouri Line

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

Inspection Comments

Deck Notes

Checked superstructure with snoopers.
Approach guard rail break away cable & terminal are broken at south east corner.
Approach slabs have insignificant size and density sealable cracks. Some cracks had been sealed in the past.
Bent 1 approach slab has a 2 ft. spall in left lane near bent.
Parapet Walls has some cracks with efflorescence.
Compression seals are partially filled with dirt.
Deck has insignificant size and density cracks longitudinal and transverse.
Concrete portion of deck soffit has moderate width cracks with efflorescence.

Superstructure Notes

Weathering steel girders are a dark brown color & tightly adhered.
Bents 1&8 bearing elastomeric pad is leaning, bearing slot is against the anchor bolt but bearing is still functioning properly.
Some bottom flange bolts have washers making bolt appear they are loose.

Substructure Notes

Bent 3 pile 1 encasement has an 8in. x 6in. x 1/2in. deep spalled area.
Bent 3 pile 4 encasement has an 8in. x 6in. x 3in. deep spalled area with exposed rebar.
Bent 3 pile 5 encasement has a 6in. x 4in. x up to 2in. deep spall and delaminated areas with exposed rebar near water line.
Bent 5 piles 7,8 & 10 encasement has a 6in. x 2in. deep spalled area.
Bent 6 piles 9 & 10 encasement 1ft. x 6ft. honeycomb spalled area at water line with exposed rebar.
Moderate drift at Bents 4&5.