



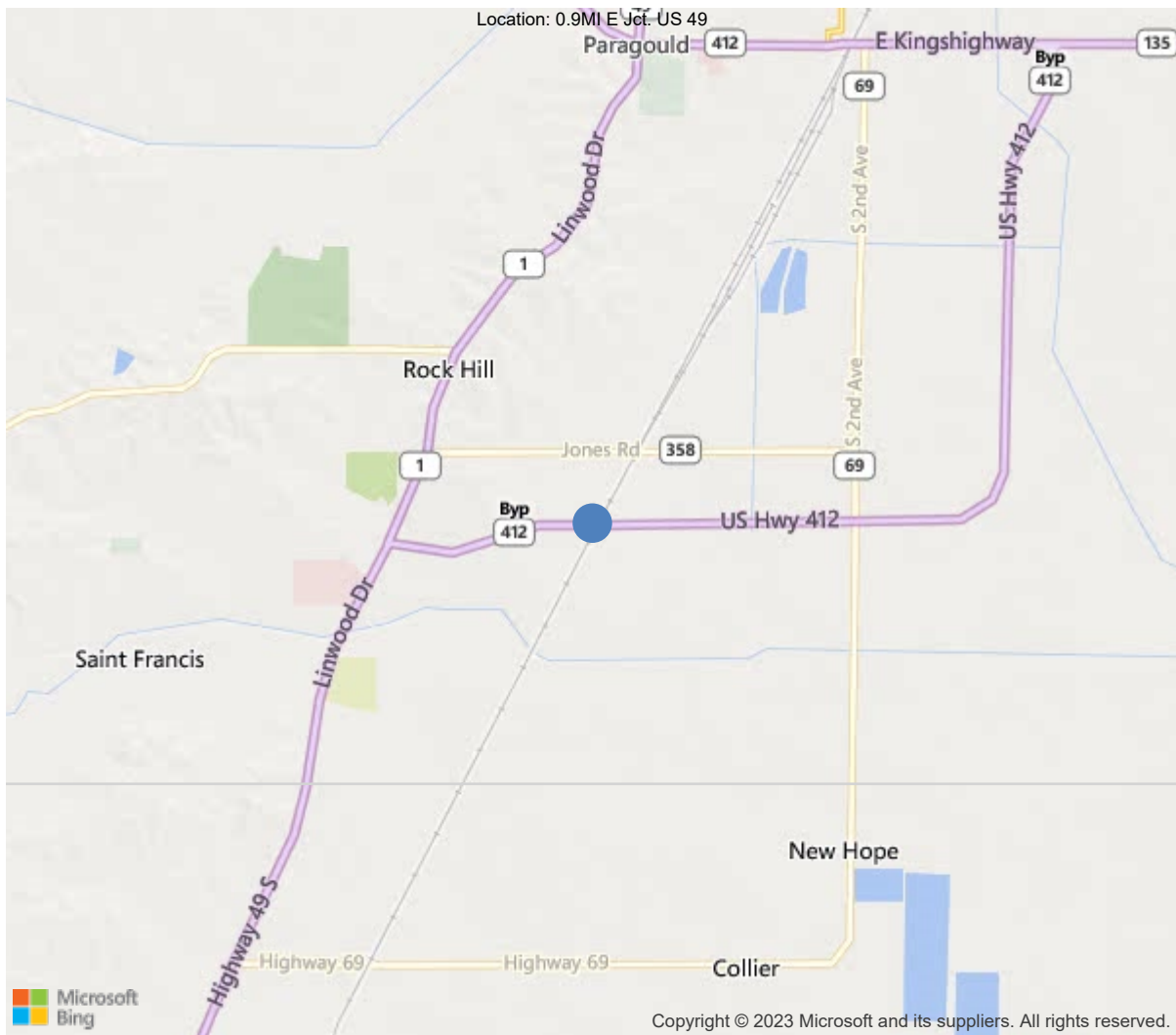
Latitude:36.01854, Longitude:-90.50930

Route:412 Section:09 Log:0.939

Arnold Road ID:28x412x9xA, Arnold Log mile:0.942

District 10, 55 - Greene County

Owner: 1 - State Highway Agency



36.01854, -90.50930





Asset #A7223(Routine)

US 412 Spur over CR37-A(911=920),SLSW RR

Location: 0.9MI E Jct. US 49

Team Lead: Tim Myrick, Inspection Date: 10/20/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	A7223
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	55 - Greene County
(4) Place Code	0
(6) Features Intersected	CR37-A(911=920),SLSW RR
(7) Facility Carried	US 412 Spur
(9) Location	0.9MI E Jct. US 49
(11) Mile Point	0.939 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000000001
(16) Latitude	36.01854
(17) Longitude	-90.5093
(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	11
(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 pl
Type of Membrane	0 - None
Type of Deck Protection	1 - Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	2014
(106) Year Reconstructed	0
(42) Type of Service	14
On	1 - Highway
Under	4 - Highway-railroad
(28) Lane	
On	2
Under	2
(29) Average Daily Traffic	3700
(30) Year of ADT	2018
(109) Truck ADT	8 %
(19) Bypass, Detour Length	6 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	175 ft
(49) Structure Length	1190 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	38.1 ft
(52) Deck Width Out to Out	41.2 ft
(32) Approach Roadway Width (W/Shoulders)	38.1 ft
(33) Bridge Median	0 - No median
(34) Skew	28 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.01 ft
(47) Inventory Route Total Horiz Clear	39 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	23.62 ft
Ref:	
(55) Min Lat Underclear RT	10 ft
Ref:	
(56) Min Lat Underclear LT	99.9 ft
NAVIGATION DATA	
(38) Navigation Control	N - Not applicable, no waterwa
(111) Pier Protection	5 - None present but re-evalua
(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 Art
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exis
(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 par
(20) Toll	3 - On free road. The structu
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	4 - Historical significance is
CONDITION	
(58) Deck	7
(59) Superstructure	9
(60) Substructure	8
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	A - HL93
(63) Operating Rating Method	3
(64) Operating Rating	
Type	3 - Load and Resistance Factor(LRFR)
Rating	49
(65) Inventory Rating Method	3 - Load and Resistance Factor
(66) Inventory Rating	
Type	
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	9
(68) Deck Geometry	5
(69) Clearances, Vertical/Horizontal	6
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	1 - Inspected feature meets current
(36C) Approach Guardrail	1 - Inspected feature meets current
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	N - Bridge not over waterway.
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	8700
(115) Year of Future ADT	2031

INSPECTIONS *			
(90) Inspection Date	10/20/2022		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
<p>* 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.</p>			



## General Observation

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### 58 - Deck (7 - GOOD CONDITION - some minor problems.)

Approach slabs have a few moderate width cracks.

Bridge rails have several vertical cracks with some efflorescence and a few spalls.

Deck has a few minor unsealed transverse and longitudinal cracks & some map cracking, especially in wheel paths.

Finger joints are in good condition

Overhangs have several cracks with efflorescence.

RR Fence good condition.

### 59 - Superstructure (9 - EXCELLENT CONDITION)

Weathering steel has a dark brown color with a granular texture.

Span 2 girder 2 splice 2 has 1 loose bolt in bottom flange.

Span 6 bent 7 bay 1 concrete diaphragm has a 1 ft. x 2 ft. x 3 in. deep spall.

Girders at spans 7 and 8 have minor bowed areas in bottom flange at bottom of stiffeners.

Several splice plates and bolts have some discoloration.

### 60 - Substructure (8 - VERY GOOD CONDITION - no problems noted.)

Bent 3 cap has a few vertical cracks with efflorescence.

Bent 1 abutment (cap) has 2 vertical cracks.

Backwall portions of bent 1 & bent 12 abutments have vertical cracks, a few with efflorescence.

Small Trees, brush & debris under bridge.

Under clearance verified this inspection.

## A-46 - Asset Files

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Asset #A7223(Routine)

US 412 Spur over CR37-A(911=920),SLSW RR

Location: 0.9MI E Jct. US 49

Team Lead: Tim Myrick, Inspection Date: 10/20/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	48992	45522	3250	220	0
1120	Efflorescence/Rust Staining	SF	220	0	0	220	0
1130	Cracking (RC and Other)	SF	3250	0	3250	0	0
107	Steel Open Girder/Beam	LF	5950	5950	0	0	0
515	Steel Protective Coating	SF	88484	88484	0	0	0
205	Reinforced Concrete Column	EA	30	30	0	0	0
215	Reinforced Concrete Abutment	LF	172	141	27	4	0
1120	Efflorescence/Rust Staining	LF	2	0	0	2	0
1130	Cracking (RC and Other)	LF	29	0	27	2	0
234	Reinforced Concrete Pier Cap	LF	455	443	12	0	0
1120	Efflorescence/Rust Staining	LF	12	0	12	0	0
301	Pourable Joint Seal	LF	87	87	0	0	0
305	Assembly Joint without Seal	LF	130	130	0	0	0
310	Elastomeric Bearing	EA	75	75	0	0	0
321	Reinforced Concrete Approach Slab	SF	2774	2618	0	156	0
1130	Cracking (RC and Other)	SF	156	0	0	156	0
331	Reinforced Concrete Bridge Railing	LF	2380	1834	538	8	0
1080	Delamination/Spall/Patched Area	LF	6	0	6	0	0
1120	Efflorescence/Rust Staining	LF	8	0	0	8	0
1130	Cracking (RC and Other)	LF	532	0	532	0	0



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## Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	48992	45522	3250	220	0
1120	Efflorescence/Rust Staining	SF	220	0	0	220	0
1130	Cracking (RC and Other)	SF	3250	0	3250	0	0

### 58 - Deck (7 - GOOD CONDITION - some minor problems.)

Comment: Approach slabs have a few moderate width cracks.

Bridge rails have several vertical cracks with some efflorescence and a few spalls.

Deck has a few minor unsealed transverse and longitudinal cracks & some map cracking, especially in wheel paths.

Finger joints are in good condition

Overhangs have several cracks with efflorescence.

RR Fence good condition.



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## Superstructure

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515	Steel Protective Coating	SF	88484	88484	0	0	0

### 59 - Superstructure (9 - EXCELLENT CONDITION)

Comment: Weathering steel has a dark brown color with a granular texture.

Span 2 girder 2 splice 2 has 1 loose bolt in bottom flange.

Span 6 bent 7 bay 1 concrete diaphragm has a 1 ft. x 2 ft. x 3 in. deep spall.

Girders at spans 7 and 8 have minor bowed areas in bottom flange at bottom of stiffeners.

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Team Lead: Tim Myrick, Inspection Date: 10/20/2022

## Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	30	30	0	0	0
215	Reinforced Concrete Abutment	LF	172	141	27	4	0
1120	Efflorescence/Rust Staining	LF	2	0	0	2	0
1130	Cracking (RC and Other)	LF	29	0	27	2	0
234	Reinforced Concrete Pier Cap	LF	455	443	12	0	0
1120	Efflorescence/Rust Staining	LF	12	0	12	0	0

### 60 - Substructure (8 - VERY GOOD CONDITION - no problems noted.)

Comment: Bent 3 cap has a few vertical cracks with efflorescence.

Bent 1 abutment (cap) has 2 vertical cracks.

Backwall portions of bent 1 & bent 12 abutments have vertical cracks, a few with efflorescence.

Small Trees, brush & debris under bridge.

Under clearance verified this inspection.





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Location: 0.9MI E Jct. US 49

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## Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4





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**Location: 0.9MI E Jct. US 49**

**Team Lead:** Tim Myrick, **Inspection Date:** 10/20/2022

#### **Maintenance Needs**

**Date Reported:** 10/08/2018

**Priority:** (Inactive) (Inactive) G - General/  
Preventive maintenance

**Status:** Monitor

**Type of Work:** Repair (General)

**Component:** Deck

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#### **Deficiency Description**

Deck has a few minor unsealed transverse and longitudinal cracks.

#### **Remarks**

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**Location: 0.9MI E Jct. US 49**

**Team Lead:** Tim Myrick, **Inspection Date:** 10/20/2022

#### **Maintenance Needs**

**Date Reported:** 10/08/2018

**Priority:** (Inactive) (Inactive) G - General/  
Preventive maintenance

**Status:** Monitor

**Type of Work:** Repair (General)

**Component:** Superstructure

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#### **Deficiency Description**

Span 2 girder 2 splice 2 has 1 loose bolt in bottom flange.

#### **Remarks**

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**US 412 Spur over CR37-A(911=920),SLSW RR**

**Location: 0.9MI E Jct. US 49**

**Team Lead:** Tim Myrick, **Inspection Date:** 10/20/2022

#### **Maintenance Needs**

**Date Reported:** 10/22/2020

**Priority:** D- Routine

**Type of Work:** Repair (General)

**Status:** Monitor

**Component:** Deck

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#### **Deficiency Description**

Bridge rails have several vertical cracks with some efflorescence and a few spalls.

#### **Remarks**

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Location: 0.9MI E Jct. US 49

Team Lead: Tim Myrick, Inspection Date: 10/20/2022

#### Maintenance Needs

Date Reported: 10/22/2020

Priority: (Inactive) (Inactive) G - General/  
Preventive maintenance

Status: Monitor

Type of Work: (Inactive) (Inactive) 1 - Clean

Component: Miscellaneous

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#### Deficiency Description

Small trees, brush & debris under bridge.

#### Remarks

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**US 412 Spur over CR37-A(911=920),SLSW RR**

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**Team Lead: Tim Myrick, Inspection Date: 10/20/2022**

## **Routine Maintenance**

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	
A-56 - Joint Cleaning/Flushing Needed	
A-57 - Beam End and Bearing Paint Needed	
A-58 - Cap Cleaning/Flushing Needed	
A-59 - Joint Repair Needed	
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	
A-62 - Hydro and LMC Advised	

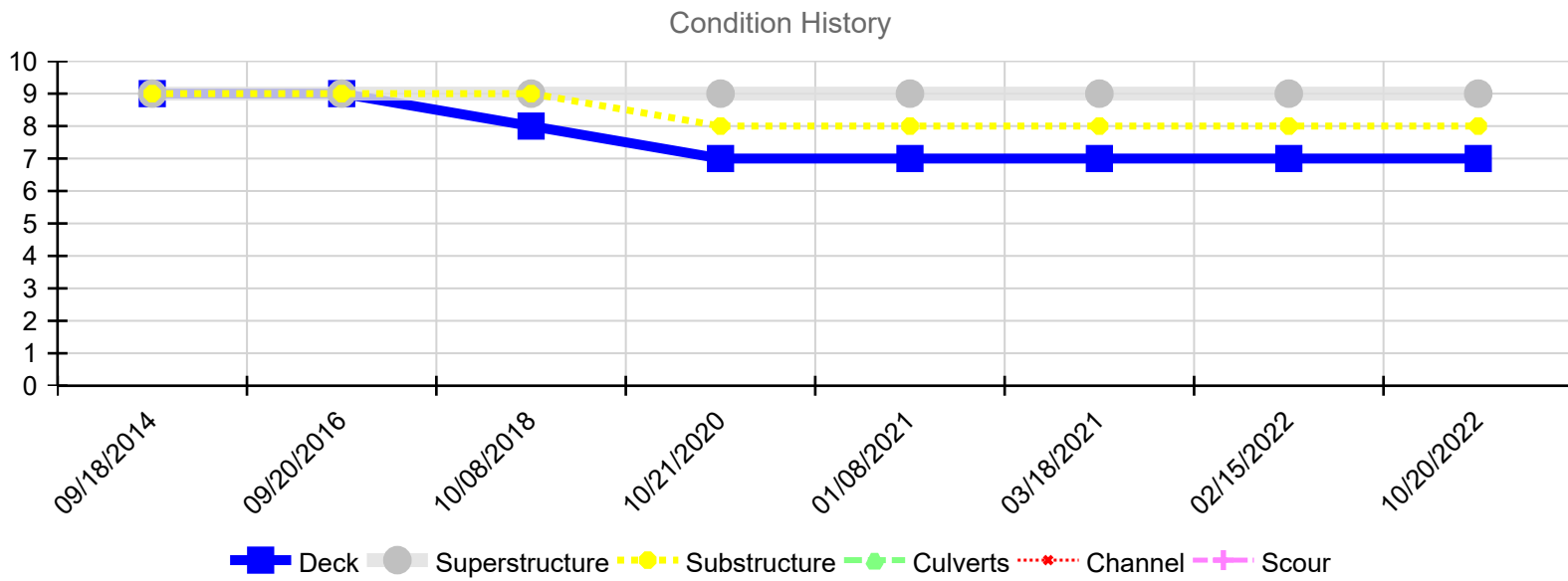


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Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
10/20/2022	7	9	8	N	N	N
02/15/2022	7	9	8	N	N	N
03/18/2021	7	9	8	N	N	N
01/08/2021	7	9	8	N	N	N
10/21/2020	7	9	8	N	N	N
10/08/2018	8	9	9	N	N	N
09/20/2016	9	9	9	N	N	N
09/18/2014	9	9	9	N	N	N