



Latitude:36.05789, Longitude:-90.51339

Route:412 Section:08B Log:3.991

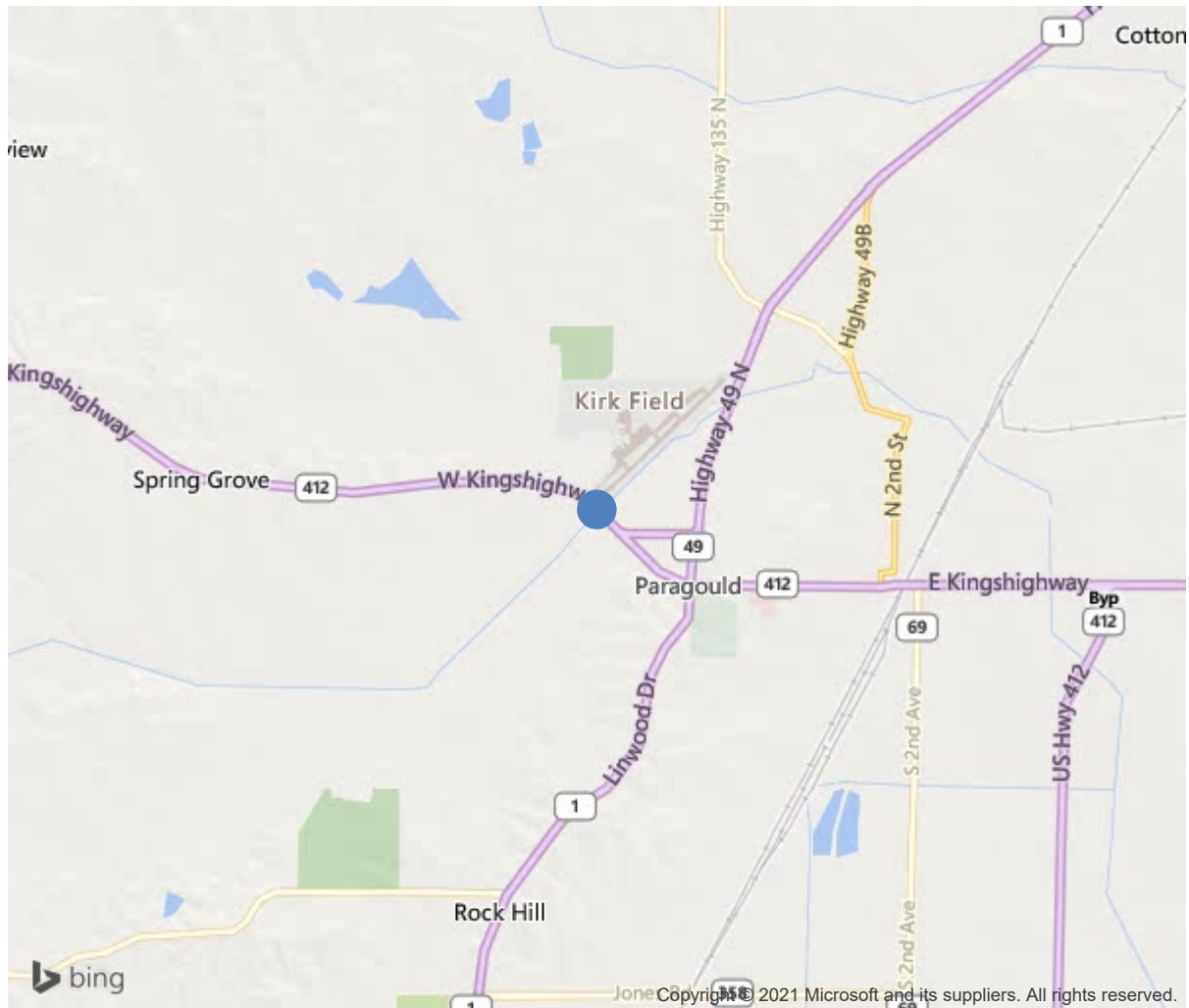
Arnold Road ID:28x412x8BxA, Arnold Log mile:3.994

District 10, Greene County

Owner: 1-State Highway Agency

Place Code: 50840 - PARAGOULD

.2 MI NW JCT SH 49 WYE



36.05789, -90.51339



Bridge #06289(Routine)

US 412-08-LM 17.71 over EIGHT MILE CREEK

Location: .2 MI NW JCT SH 49 WYE

Team Lead: James Adams Inspection Date: September 28, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	06289
(5) Inventory Route	412
(2) Highway Agency District	10
(3) County Code	55-Greene County, Arkansas
(4) Place Code	50840
(6) Features Intersected	EIGHT MILE CREEK
(7) Facility Carried	US 412-08-LM 17.71
(9) Location	.2 MI NW JCT SH 49 WYE
(11) Mile Point	17.71 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000412080
(16) Latitude	36.05789
(17) Longitude	-90.51339
(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	1989
(106) Year Reconstructed	0
(42) Type of Service	55
On	5-Highway-pedestrian
Under	5-Waterway
(28) Lane	
On	4
Under	0
(29) Average Daily Traffic	22000
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	6 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	46 ft
(49) Structure Length	140 ft
(50) Curb or Sidewalk Width	
Left	6 ft
Right	6 ft
(51) Bridge Roadway Width Curb to Curb	51.8 ft
(52) Deck Width Out to Out	67.7 ft
(32) Approach Roadway Width (W/Shoulders)	51.8 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	65.6 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	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	5-Bridge is not eligible for the NRHP
CONDITION	
(58) Deck	6
(59) Superstructure	7
(60) Substructure	7
(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	7
(68) Deck Geometry	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	9
(36) Traffic Safety Features	1000
A) Bridge Railings	1-Inspected feature meets currently a
B) Transitions	0-Inspected feature does not meet cur
C) Approach Guardrail	0-Inspected feature does not meet cur
D) 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	24093
(115) Year of Future ADT	2028
INSPECTIONS	
(90) Inspection Date	
(91) Frequency	24 Months
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	No 24
B: Underwater Inspection	Yes 0
C: Other Special Inspection	No 0



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Team Lead: James Adams, Inspection Date: September 28, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	8280	1120	4214	2946	0
1120	Efflorescence/Rust Staining	SF	72	0	24	48	0
1130	Cracking (RC and Other)	SF	2898	0	0	2898	0
1190	Abrasion/Wear (PSC/RC)	SF	4190	0	4190	0	0
107	Steel Open Girder/Beam	LF	1104	1049	55	0	0
1000	Corrosion	LF	55	0	55	0	0
515	Steel Protective Coating	SF	9992	9492	500	0	0
3440	Effectiveness (Steel Protective Coatings)	SF	500	0	500	0	0
215	Reinforced Concrete Abutment	LF	170	168	0	2	0
1130	Cracking (RC and Other)	LF	2	0	0	2	0
227	Reinforced Concrete Pile	EA	20	20	0	0	0
234	Reinforced Concrete Pier Cap	LF	118	96	9	13	0
1080	Delamination/Spall/Patched Area	LF	14	0	2	12	0
1090	Exposed Rebar	LF	1	0	0	1	0
1130	Cracking (RC and Other)	LF	7	0	7	0	0
302	Compression Joint Seal	LF	256	66	180	10	0
2320	Seal Adhesion	LF	102	0	102	0	0
2330	Seal Damage	LF	88	0	78	10	0
311	Movable Bearing	EA	24	0	24	0	0
1000	Corrosion	EA	24	0	24	0	0
313	Fixed Bearing	EA	24	0	24	0	0
1000	Corrosion	EA	24	0	24	0	0
330	Metal Bridge Railing	LF	276	276	0	0	0
515	Steel Protective Coating	SF	276	276	0	0	0
3440	Effectiveness (Steel Protective Coatings)	SF	276	276	0	0	0
331	Reinforced Concrete Bridge Railing	LF	276	276	0	0	0



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US 412-08-LM 17.71 over EIGHT MILE CREEK

Location: .2 MI NW JCT SH 49 WYE

Team Lead: James Adams **Inspection Date:** September 28, 2020

Maintenance Needs

Date Reported: 08/28/2012
Priority: C - Important
Type of Work: None
Status: Monitor
Component:

Deficiency Description

SIP forms around drain openings have rust and leakage through deck.

Remarks



Span 3 drain 3 right side



Bridge #06289 (Routine)
US 412-08-LM 17.71 over EIGHT MILE CREEK

Location: .2 MI NW JCT SH 49 WYE

Team Lead: James Adams Inspection Date: September 28, 2020

Date Reported: 08/28/2012
Priority: C - Important
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Deck has numerous unsealed transverse cracks, and a few longitudinal and diagonal cracks.

Remarks



Bridge #06289(Routine)
US 412-08-LM 17.71 over EIGHT MILE CREEK

Location: .2 MI NW JCT SH 49 WYE

Team Lead: James Adams Inspection Date: September 28, 2020

Date Reported: 08/25/2014

Priority: D- Routine

Type of Work: None

Status: Monitor

Component:

Deficiency Description

Caps at interior bents have a few cracks, delaminated areas, and spalls with some rebar exposed.

Remarks



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US 412-08-LM 17.71 over EIGHT MILE CREEK
Location: .2 MI NW JCT SH 49 WYE

Team Lead: James Adams **Inspection Date:** September 28, 2020

Date Reported: 08/25/2014
Priority: D- Routine
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Compression seals have areas that are torn and beginning to lose adhesion.

Remarks



Bridge #06289 (Routine)
US 412-08-LM 17.71 over EIGHT MILE CREEK
Location: .2 MI NW JCT SH 49 WYE

Team Lead: James Adams Inspection Date: September 28, 2020

Date Reported: 09/11/2018
Priority: D- Routine
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Approach roadways have some settlement at each end of bridge. Sidewalks have settlement at each end of bridge.
* Approach on bent 1 end has a 3' x 1' pot hole at end of bridge.

Remarks

* Pothole repaired, but asphalt remains cracked with a few delaminations. Observed at inspection, 09-28-2020 JFA/CWS





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Location: .2 MI NW JCT SH 49 WYE

Team Lead: James Adams Inspection Date: September 28, 2020

Inspection Comments

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Deck Notes

Approach roadways have some settlement at each end of bridge.
Approach roadway on bent 1 end has had some repairs since previous inspection.
Asphalt at both ends has open cracks with a few minor spalls in asphalt.
Sidewalks have settlement at each end of bridge.
Deck has numerous unsealed transverse cracks, and a few longitudinal and diagonal cracks with minor abrasion.
Compression seals have areas that are torn and beginning to loose adhesion.
SIP forms around drain openings have rust and leakage through deck with some section loss to forms.
Overhang portion of soffit & sidewalk soffit have a few cracks with efflorescence.

Superstructure Notes

Steel girders have areas of freckled rust.
Bearings have corrosion with some minor pack rust.
A few diaphragms over bent 4 have rust and initial section loss.

Substructure Notes

Caps at interior bents have a few cracks, delaminated areas, and spalls with some exposed rebar.
Bent 4 abutment has a few cracks in backwall portion of abutment.
Channel, channel banks under bridge & berms up to abutments are lined with concrete.