



Latitude:34.46413, Longitude:-93.04422

Route:270 Section:06 Log:0.88

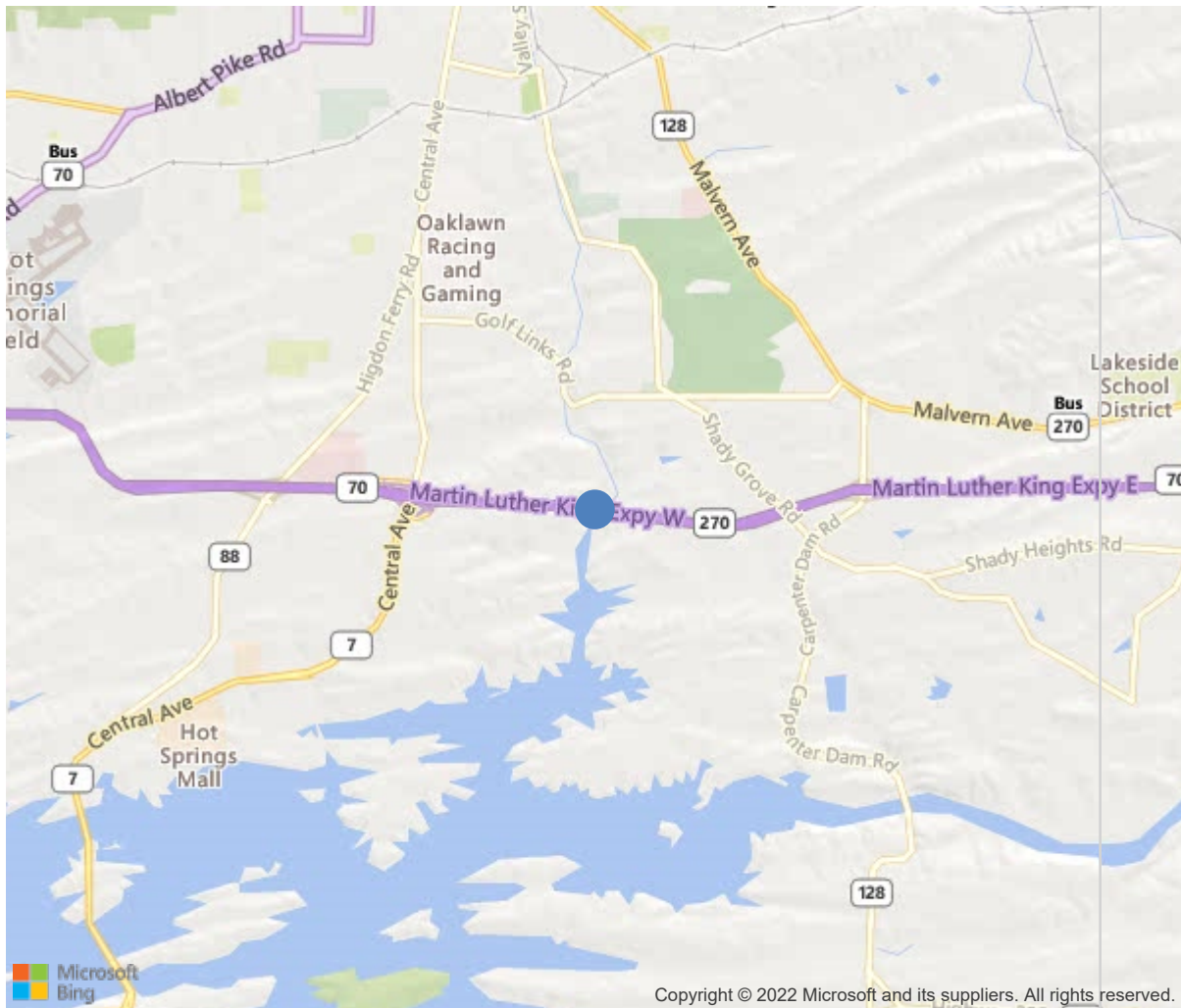
Arnold Road ID:26x270x6xA, Arnold Log mile:0.895

District 06, Garland County

Owner: 1-State Highway Agency

Place Code: 33400 - Hot Springs

0.88 MI E SH 7



34.46413, -93.04422

Inspection Direction : W to E



Bridge #B6426(Routine)

US 270, EB 0.88 over HOT SPRINGS CREEK

Location: 0.88 MI E SH 7

Team Lead: Shane Byrd Inspection Date: October 14, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	B6426
(5) Inventory Route	270
(2) Highway Agency District	06
(3) County Code	51-Garland County, Arkansas
(4) Place Code	33400
(6) Features Intersected	HOT SPRINGS CREEK
(7) Facility Carried	US 270, EB 0.88
(9) Location	0.88 MI E SH 7
(11) Mile Point	0.88 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000270060
(16) Latitude	34.464127
(17) Longitude	-93.04422
(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	5
(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	1993
(106) Year Reconstructed	0
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	17449
(30) Year of ADT	2018
(109) Truck ADT	4 %
(19) Bypass, Detour Length	4 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	75 ft
(49) Structure Length	348 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	39.4 ft
(52) Deck Width Out to Out	42.3 ft
(32) Approach Roadway Width (W/Shoulders)	41 ft
(33) Bridge Median	0-No median
(34) Skew	30 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	40.4 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	12-Urban Principal Arterial - Oth
(100) Defense Highway	0-The inventory route is not a S
(101) Parallel Structure	R-The right structure of paralle
(102) Direction of Traffic	1 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0-N/A
(110) Designated National Network	0-The inventory route is not part of
(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	7
(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	5
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	6
(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	8-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	22345
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			10/2020
(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	14682	10928	3234	520	0
1120	Efflorescence/Rust Staining	SF	252	0	252	0	0
1130	Cracking (RC and Other)	SF	3502	0	2982	520	0
(12)	All spans have unsealed transverse and longitudinal cracks. Most of the transverse cracks are 0.040 inch in width, the longitudinal cracks avg. 0.025 inch in width. Soffits have cracks with efflorescence.						
107	Steel Open Girder/Beam	LF	2070	2042	28	0	0
1000	Corrosion	LF	25	0	25	0	0
1020	Connection	LF	3	0	3	0	0
515	Steel Protective Coating	SF	16947	16947	0	0	0
(107)	Span 3 girder 1 first splice loose bolt in bottom flange, Span 3 girder 2 and 3 2nd splice loose bolt in bottom flange and span 5 girder 3 corrosion on top flange. Span 1 girder 2, 3 and 4 flaking rust on bottom flange and lower web. No section loss.						
205	Reinforced Concrete Column	EA	8	8	0	0	0
(205)	No note worthy defects at this inspection.						
215	Reinforced Concrete Abutment	LF	97	82	15	0	0
1120	Efflorescence/Rust Staining	LF	9	0	9	0	0
1130	Cracking (RC and Other)	LF	6	0	6	0	0
(215)	Both abutments have vertical cracks and cracks with efflorescence.						
234	Reinforced Concrete Pier Cap	LF	186	186	0	0	0
(234)	No note worthy defects at this inspection.						
302	Compression Joint Seal	LF	98	10	58	30	0
2310	Leakage	LF	88	0	58	30	0
(302)	Joints at bents 1 and 6 are leaking causing debris to build up on cap.						
310	Elastomeric Bearing	EA	36	24	12	0	0



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
2220 (310)	Alignment The bearings at bents 1 and 6 are leaning.	EA	12	0	12	0	0
331	Reinforced Concrete Bridge Railing	LF	695	694	0	1	0
1080 (331)	Delamination/Spall/Patched Area Span 5 right side has a spall in top of guard rail.	LF	1	0	0	1	0



Span 2 left side soffit overhang has cracks with efflorescence.



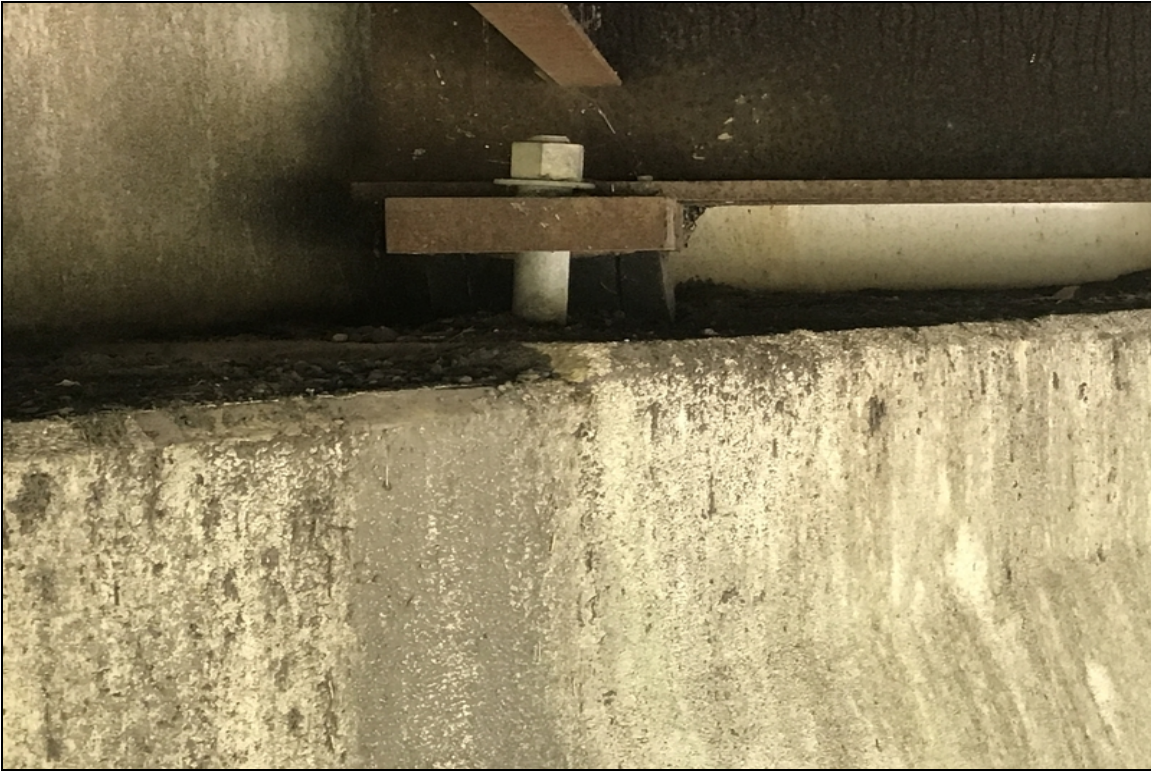
Approach Eastbound.



Span 1 beam 3 has flaking rust to bottom flange.



Joint seal at bent 6 has lost bond and is leaking.



Bent 1 bearing 2 is leaning.



Unsealed transverse cracks in deck at span 5.



Unsealed longitudinal cracks in decal at span 2.



Deck overview.

Maintenance Needs

Date Reported: 10/03/2016
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Deck

Deficiency Description

Transverse and longitudinal unsealed cracks in all spans of the deck.

Remarks



Span 5 longitude crack.



Large transverse cracks.



Transverse cracks in span 2.



Unsealed transverse cracks in deck at span 5.



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Unsealed longitudinal cracks in decal at span 2.



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Date Reported: 10/01/2018
Priority: D- Routine
Type of Work: Clean
Status: Assigned
Component: Miscellaneous

Deficiency Description

Drains are full of debris.

Remarks

Assigned Garland 06261 10/30/18



Span 4 drains are full of debris.

Date Reported: 10/01/2018
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: 302 - Compression Joint Seal

Deficiency Description

Joints are leaking at bents 1 and 6.

Remarks



Bent 6 bay 3 debris on top of cap.



Bent 6 joint has lost adhesion and is leaking.



Bent 1 joint has lost adhesion.



Joint seal at bent 6 has lost bond and is leaking.



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Team Lead: Shane Byrd **Inspection Date:** October 14, 2020

Date Reported: 10/14/2020
Priority: C - Important
Type of Work: Repair
Status: Open
Component: Miscellaneous

Deficiency Description

Pothole in approach roadway at bent 1, approach roadway has settled.

Remarks



Pothole in approach roadway at bent 1, approach roadway has settled.



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Inspection Comments

Lane closure information is located under other tab. Job #R60037, Drawing #32518

Substructure Notes

10/1/2018 -KRM & RLS - Underwater type II inspection conducted this date, Channel profile and sounding sheets are located under sketch tab. No defects noted.