



Latitude:34.46410, Longitude:-93.02763

Route:270 Section:06 Log:1.88

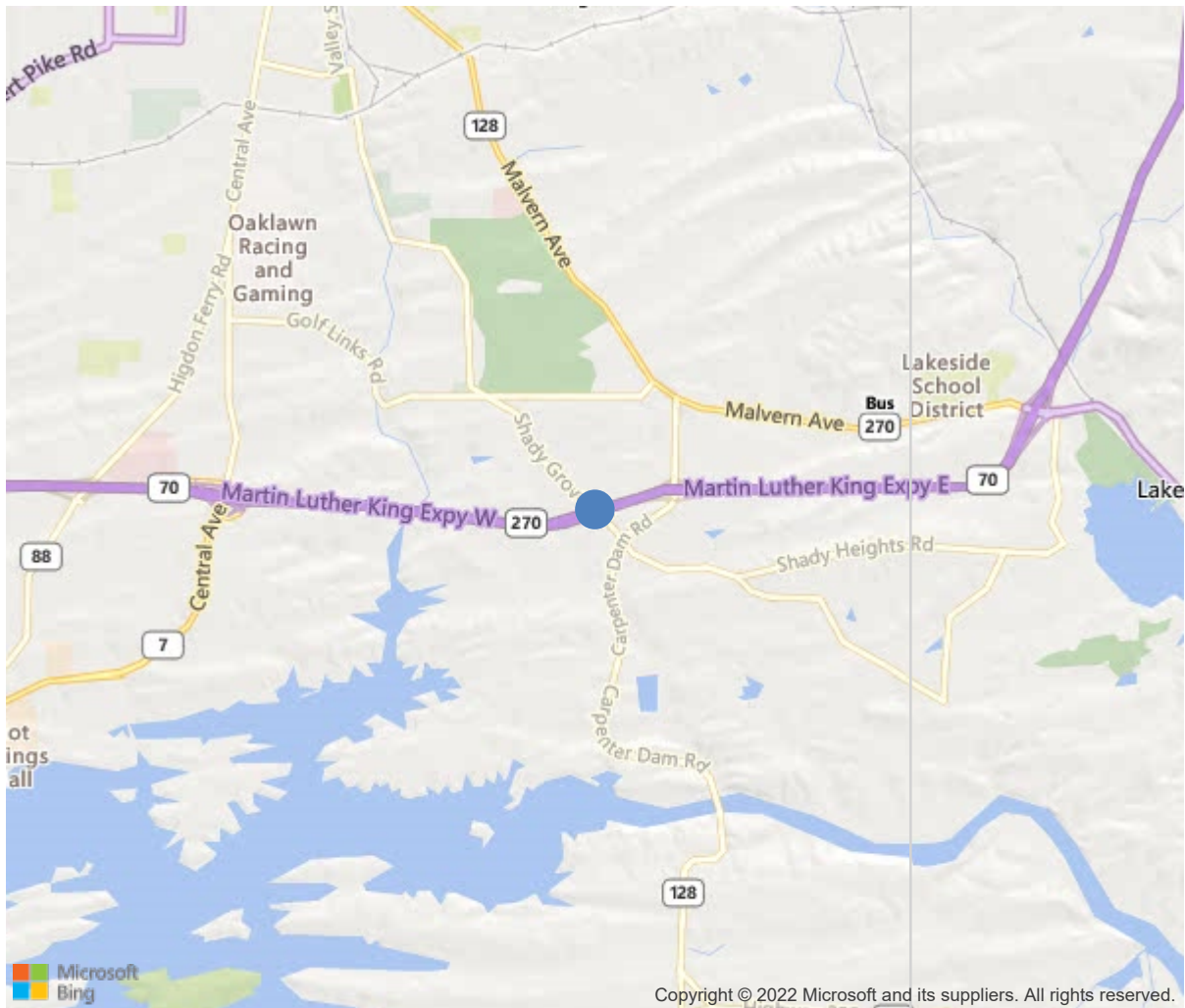
Arnold Road ID:26x270x6xB, Arnold Log mile:7.054

District 06, Garland County

Owner: 1-State Highway Agency

Place Code: 33400 - Hot Springs

1.9 MI E SH 7



34.46410, -93.02763

Inspection Direction : W to E



Bridge #A6427 (Routine)

US 270, WB Log 1.88 over SHADY GROVE RD

Location: 1.9 MI E SH 7

Team Lead: Shane Byrd Inspection Date: July 08, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	A6427
(5) Inventory Route	270
(2) Highway Agency District	06
(3) County Code	51-Garland County, Arkansas
(4) Place Code	33400
(6) Features Intersected	SHADY GROVE RD
(7) Facility Carried	US 270, WB Log 1.88
(9) Location	1.9 MI E SH 7
(11) Mile Point	1.88 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000270060
(16) Latitude	34.4641
(17) Longitude	-93.02763
(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	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	1993
(106) Year Reconstructed	0
(42) Type of Service	11
On	1-Highway
Under	1-Highway, with or without pedestrian
(28) Lane	
On	2
Under	2
(29) Average Daily Traffic	51348
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	66 ft
(49) Structure Length	152 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	16 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	16.58 ft
Ref:	
(55) Min Lat Underclear RT	14 ft
Ref:	
(56) Min Lat Underclear LT	25 ft
NAVIGATION DATA	
(38) Navigation Control	N-Not applicable, no waterway.
(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	L-The left structure of parallel
(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	8
(60) Substructure	8
(61) Channel & Channel Protection	N
(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	6
(69) Clearances, Vertical/Horizontal	6
(71) Waterway Adequacy	N
(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	1-Inspected feature meets currently a
(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	22345
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			07/2020
(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.			





Bridge #A6427(Routine)

US 270, WB Log 1.88 over SHADY GROVE RD

Location: 1.9 MI E SH 7

Team Lead: Shane Byrd, Inspection Date: July 08, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	6430	5216	1094	120	0
1120	Efflorescence/Rust Staining	SF	66	0	66	0	0
1130	Cracking (RC and Other)	SF	1148	0	1028	120	0
(12)	Cracks with efflorescence in the soffit overhangs. Unsealed transverse and longitudinal cracks in all spans.						
107	Steel Open Girder/Beam	LF	912	912	0	0	0
515	Steel Protective Coating	SF	6722	6162	560	0	0
3410	Chalking (Steel Protective Coatings)	SF	560	0	560	0	0
(107)	The protective coating is chalking on girder 1 the exterior side. .						
205	Reinforced Concrete Column	EA	4	4	0	0	0
(205)	No notable deficiencies at this inspection.						
215	Reinforced Concrete Abutment	LF	108	101	7	0	0
1120	Efflorescence/Rust Staining	LF	5	0	5	0	0
1130	Cracking (RC and Other)	LF	2	0	2	0	0
(215)	Cracks and cracks with efflorescence in both abutments.						
234	Reinforced Concrete Pier Cap	LF	84	84	0	0	0
(234)	No notable deficiencies at this inspection.						
302	Compression Joint Seal	LF	85	49	0	36	0
2310	Leakage	LF	36	0	0	36	0
(302)	07/19/2018 - KRM & RLS - Both joints have lost adhesion and leak. (Closed cell foam joint)						
310	Elastomeric Bearing	EA	24	24	0	0	0
(310)	No notable deficiencies at this inspection.						
331	Reinforced Concrete Bridge Railing	LF	304	276	28	0	0

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**US 270, WB Log 1.88 over SHADY GROVE RD**

**Location: 1.9 MI E SH 7**

**Team Lead:** Shane Byrd, **Inspection Date:** July 08, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1130  (331)	Cracking (RC and Other)  Both bridge rails have vertical cracks at various locations.	LF	28	0	28	0	0



Span 2 left side soffit overhang has cracks with efflorescence.



Deck overview.



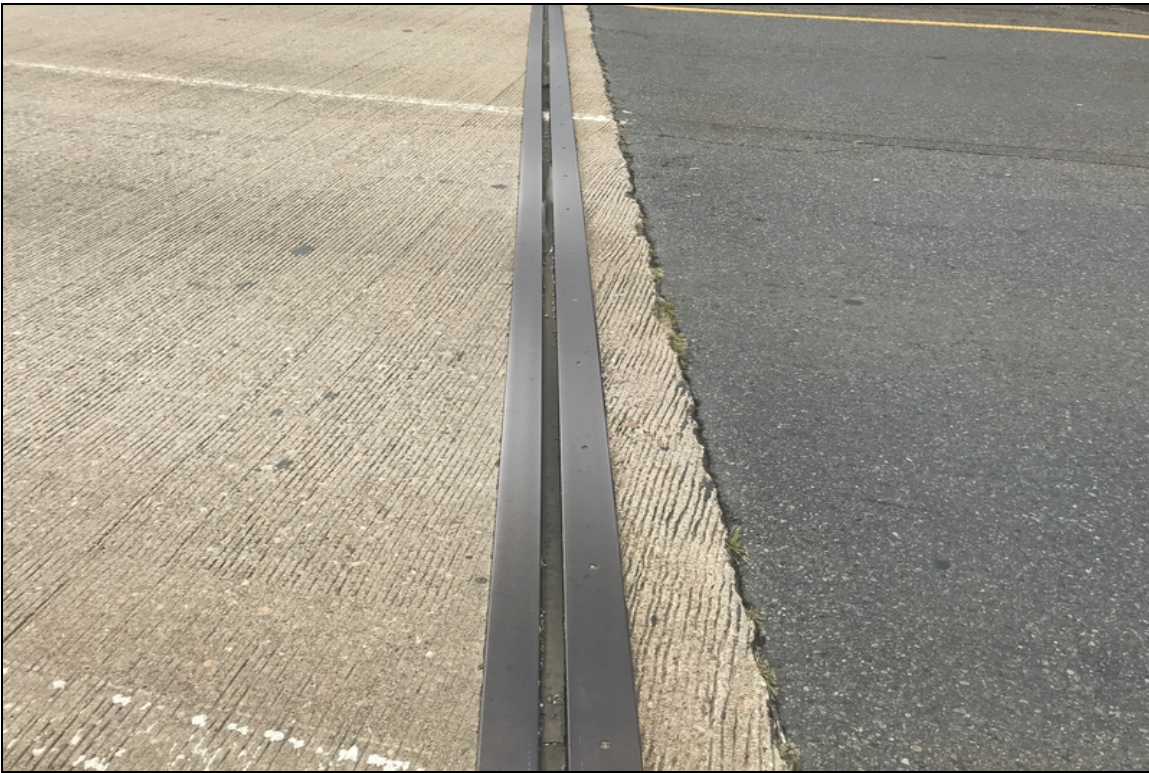


Approach Westbound.



Bent 1 abutment has cracks with efflorescence in the back wall.





Bent 1 pourable joint seal has lost bond.



Deck span 1 has transverse cracks.





Deck span 3 has longitudinal cracks.



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### **Inspection Comments**

Job #R60037, Drawing #32529 for layout.

The under route, Shady grove road is logged southbound from Belding ave. per addresses.