



Latitude:34.09604, Longitude:-94.08527

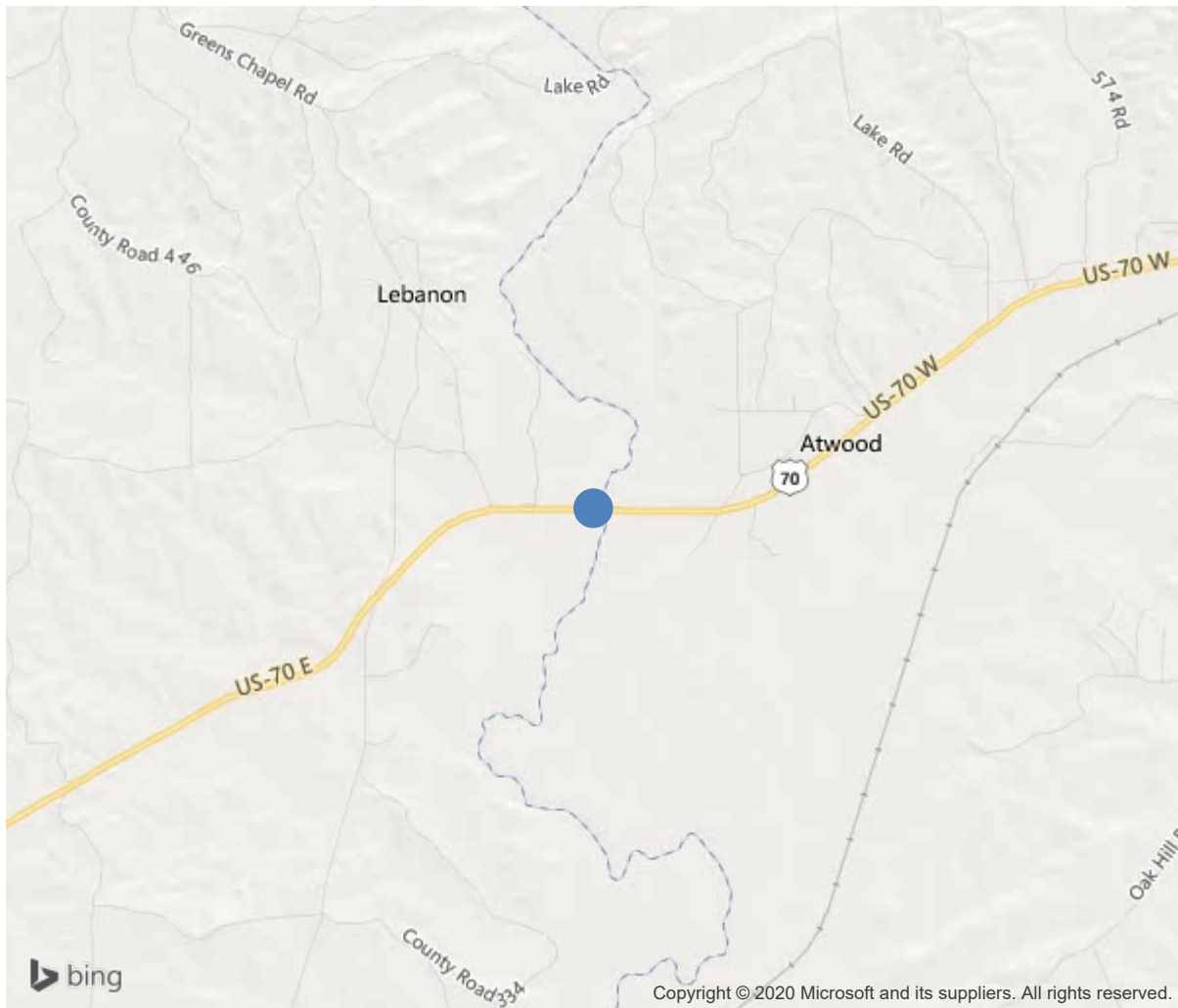
Route:70 Section:02 Log:7.41

Arnold Road ID:66x70x2xA, Arnold Log mile:7.419

District 03, Sevier County

Owner: 1-State Highway Agency

.05 MI W HOWARD CO LINE



34.09604, -94.08527



**Bridge #02082(Routine)**  
**US 70 SEC. 02-7.41 over SALINE RIVER**  
**Location: .05 MI W HOWARD CO LINE**

**Team Lead: Charlie Rogers Inspection Date: October 01, 2019**

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	02082
(5) Inventory Route	70
(2) Highway Agency District	03
(3) County Code	133-Sevier County, Arkansas
(4) Place Code	0
(6) Features Intersected	SALINE RIVER
(7) Facility Carried	US 70 SEC. 02-7.41
(9) Location	.05 MI W HOWARD CO LINE
(11) Mile Point	7.41 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.09604
(17) Longitude	-94.08527
(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	8
(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	0-None
AGE AND SERVICE	
(27) Year Built	1950
(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	3100
(30) Year of ADT	2013
(109) Truck ADT	1 %
(19) Bypass, Detour Length	30 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	60 ft
(49) Structure Length	461 ft
(50) Curb or Sidewalk Width	
Left	1.6 ft
Right	1.6 ft
(51) Bridge Roadway Width Curb to Curb	25.9 ft
(52) Deck Width Out to Out	31.8 ft
(32) Approach Roadway Width (W/Shoulders)	37.1 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	28.9 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	0
(26) Functional Class	6-Rural Minor 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	4
(59) Superstructure	4
(60) Substructure	6
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	4-M 18 / H 20
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	49.1
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	8
Rating	29
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	4
(68) Deck Geometry	3
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	7
(72) Approach Roadway Alignment	7
(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	7-Countermeasures have been installed
PROPOSED IMPROVEMENTS	
(75) Type of Work	Replacement of bridge or other
(76) Length of Structure Improvement	500 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 156
(96) Total Project Cost	\$ 1209
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	3111
(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	No 0
C: Other Special Inspection	Yes 0 201809

**Team Lead:** Charlie Rogers, **Inspection Date:** October 01, 2019

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	14659	13840	85	734	0
1080 (12)	Delamination/Spall/Patched Area	SF	819	0	85	734	0
	1080- deck patches in all spans						
107	Steel Open Girder/Beam	LF	2295	2295	0	0	0
515	Steel Protective Coating	SF	19002	14002	0	5000	0
3440 (107)	Effectiveness (Steel Protective Coatings)	SF	5000	0	0	5000	0
	3440-----RUST ON TOP FLANGE AND AROUND P& H AREA SEE REMARKS ON P&H FORM INSPECTION 2016						
161 (161)	Steel Pin, Pin and Hanger Assembly	EA	30	30	0	0	0
	SEE P&H FORM IN 2016 INSPECTION.....						
205	Reinforced Concrete Column	EA	14	14	0	0	0
210	Reinforced Concrete Pier Wall	LF	139	139	0	0	0
215	Reinforced Concrete Abutment	LF	76	76	0	0	0
234	Reinforced Concrete Pier Cap	LF	248	248	0	0	0
303	Assembly Joint with Seal	LF	234	234	0	0	0
311	Movable Bearing	EA	35	35	0	0	0
313	Fixed Bearing	EA	10	10	0	0	0
330	Metal Bridge Railing	LF	922	867	0	55	0
7000 (330)	Damage	LF	55	0	0	55	0
	7000- guard rail damage from collision span 1 left side End of bridge right side also 40'						





Concrete and debris on cap at bent 7



Span 5 Beam 4 at diaphragm connection typical of all





Concrete and debris on cap at bent 5



Guard rail damage right side end of bridge





Bottom of deck typical all spans



Side shot





Downstream channel



Cracks in concrete cap at bent 7





Bridge deck



**Bridge #02082**(Routine)

**US 70 SEC. 02-7.41 over SALINE RIVER**

**Location: .05 MI W HOWARD CO LINE**

**Team Lead:** Charlie Rogers **Inspection Date:** October 01, 2019

## **Maintenance Needs**





Bridge #02082(Routine)  
US 70 SEC. 02-7.41 over SALINE RIVER  
Location: .05 MI W HOWARD CO LINE

Team Lead: Charlie Rogers Inspection Date: October 01, 2019

### Inspection Comments

Pins measured using ultrasonic device. SNOOPER USED FOR INSPECTION.

---

### Deck Notes

Utilities: USGS attachment  
Wearing Surface: All spans have sealed deck cracks  
Bottom of deck has some small spalls in most bays  
Bottom of deck repair in span 1 & 2 all 4 bays 2016/9/25/2017....AL, SS, DECK, DEF PHOTOS TAKEN. LITTLE OR NO CHANGE IN CONDITION...09/24/2018 Special inspection done on pins w/ little or no change in condition....10/01/2019...AL,SS,DECK PIN & HANGER INSPECTION..Joint closed up at hanger 2-A photo taken at beam 5. Late due to rain, had to come back and do inspection...

---

### Superstructure Notes

SEE P&H FORM INSPECTION 2017 FORM RUST AND SECTION LOSS-----6 pins were replaced but hangers still have section loss. Superstructure is a 4 Poor due to section loss in high stress area of hangers at Beam 5, joint 4B and 5A. Also, heavy pack rust between hangers and web. See pin and hanger Form IIA...2018 Span 6 beam 2 left side crack in tack weld, mid span at diaphragm ..

---

### Substructure Notes

Slope Protection: Rip rap  
Breastwall: Abutment caps - 6 satisfactory  
Wingwalls: Bent 1 left wing