



Latitude:35.26863, Longitude:-93.66515

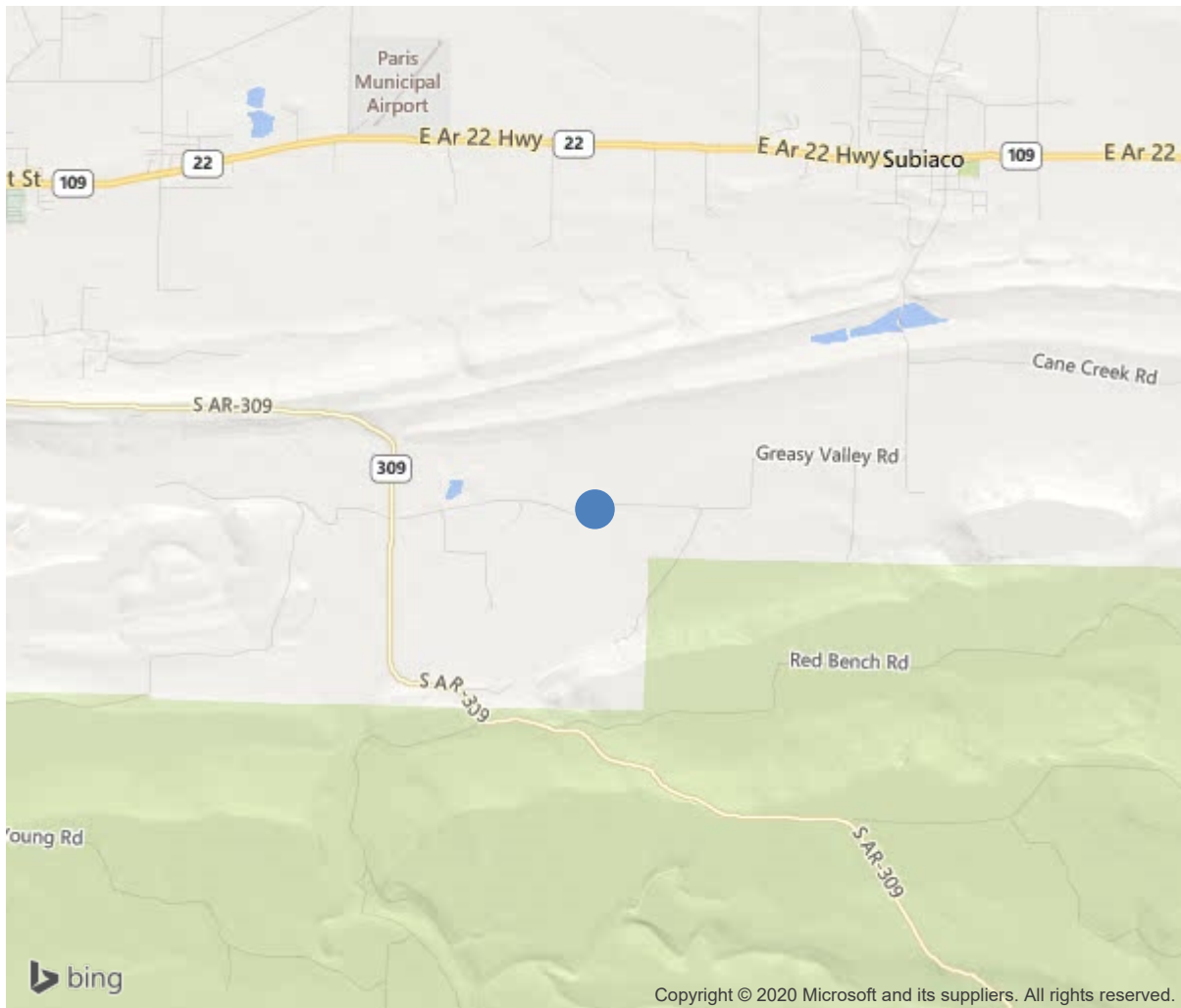
Route:50 Section:00 Log:1.03

Arnold Road ID:42xGREASYVALLEYRDx1xA, Arnold Log mile:1.023

District 04, Logan County

Owner: 2-County Highway Agency

3.56 MI SW OF SUBIACO



35.26863, -93.66515



Bridge #14793(Routine)

Greasy Valley Road over Gum Creek-Logan Co.

Location: 3.56 MI SW OF SUBIACO

Team Lead: Eric West Inspection Date: August 23, 2018

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	14793
(5) Inventory Route	50
(2) Highway Agency District	04
(3) County Code	83-Logan County, Arkansas
(4) Place Code	0
(6) Features Intersected	Gum Creek-Logan Co.
(7) Facility Carried	Greasy Valley Road
(9) Location	3.56 MI SW OF SUBIACO
(11) Mile Point	1.03 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.26863
(17) Longitude	-93.66515
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	122
Material	1-Concrete
Type	22-Channel beam
(44) Approach Structure Type	00
Material	0-Other
Type	0-Other
(45) No. of Spans in Main Unit	2
(46) No. of Approach Spans	0
(107) Deck Structure Type	2-Concrete Precast Panels
(108) Wearing Surface/Protective System	
Type of Wearing Surface	9-Other
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1940
(106) Year Reconstructed	1970
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	560
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	3 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	15 ft
(49) Structure Length	30 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	23 ft
(52) Deck Width Out to Out	24 ft
(32) Approach Roadway Width (W/Shoulders)	24 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	99.9 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		8-Rural Minor Collector	
(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		0-The inventory route is not part of	
(20) Toll		3-On free road. The structure is toll-	
(21) Maintain		2-County Highway Agency	
(22) Owner		2-County Highway Agency	
(37) Historical Significance		4-Historical significance is not dete	
CONDITION			
(58) Deck			5
(59) Superstructure			5
(60) Substructure			5
(61) Channel & Channel Protection			5
(62) Culverts			N
LOAD RATING AND POSTING			
(31) Design Load		2-M 13.5 / H 15	
(63) Operating Rating Method			1
(64) Operating Rating			
Type		1-Load Factor(LF)	
Rating			20
(65) Inventory Rating Method		1-Load Factor(LF)	
(66) Inventory Rating			
Type			2
Rating			12
(70) Bridge Posting		0-> 39.9% below	
(41) Structure Open/Posted/Closed		P-Posted for load (may include o	
APPRAISAL			
(67) Structural Evaluation			4
(68) Deck Geometry			4
(69) Clearances, Vertical/Horizontal			N
(71) Waterway Adequacy			6
(72) Approach Roadway Alignment			5
(36) Traffic Safety Features			0000
A) Bridge Railings		0-Inspected feature does not meet cur	
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			196
(115) Year of Future ADT			2007
INSPECTIONS			
(90) Inspection Date			201908
(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	No	0	

SUFFICIENCY RATING	44
STATUS (SD/FO/None)	Not Deficient



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Location: 3.56 MI SW OF SUBIACO

Team Lead: Eric West, **Inspection Date:** August 23, 2018

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
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Span # 1 Unit # 2 cracks on the undersurface of the deck.



Channel restricted with trees and vegetation.



Bent # 2 grout deterioration at the base of the pier wall.



Bent # 3 RT cap.



Bent # 2 Span # 1 spalling with exposed reinforcing steel on the RT stem.



Typical driving surface.



Elevation



Bent # 1 Lt wing wall cracking with minor rotation towards the channel.



Bent # 1 grout deterioration at the base of the bent.



Bent # 1 Unit # 1 missing section of the cap.



Span # 1 Unit # 8 spalling with exposed reinforcing steel on the undersurface of the deck.



Roadway 2



Bent # 2 Span # 2 Unit # 3 Lt & Rt stems have shear cracks.



Bridge #14793(Routine)

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Location: 3.56 MI SW OF SUBIACO

Team Lead: Eric West **Inspection Date:** August 23, 2018

Maintenance Needs



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Greasy Valley Road over Gum Creek-Logan Co.

Location: 3.56 MI SW OF SUBIACO

Team Lead: Eric West Inspection Date: August 23, 2018

Inspection Comments

08/23/2018 - EJW - Judge Ray Gack was contacted on this date and informed of the missing sign and the "A" priority maintenance need being issued. Judge Gack indicated that he would get the sign replaced.

Deck Notes

Deck:-The driving surface of the deck has an asphalt overlay.

- Spalling with exposed reinforcing steel with minor section loss and excessive cracking visible from the undersurface of deck in Span 1, Channel 8.

- Longitudinal cracks at the stem/deck junctures in both spans.

- Span # 1 has longitudinal and hairline map cracking is visible from the undersurface of the deck in Units 2, 3, 4, 6, 7 & 8.

Superstructure Notes

Beams:

- Vertical hairline flexure cracking at approximately 8" centers in the stems of units.

- Span 1, Channel 8 has longitudinal cracks in the stems.

- Span # 1 Bent # 2 Units # 3 & 4 have hairline shear cracks in the RT stems

- Span 2, the RT stem of Channel 1, over Bent 2, has a large 10" spall with exposed reinforcing steel. No apparent section loss to the exposed reinforcing steel at this inspection.

- Span 2, Unit 3, Lt & Rt stem and Unit 5 Lt stem at Bent 2 have hairline shear cracks.

Substructure Notes

Masonry Pier Wall:

- Grout deterioration at the base of the rock masonry pier wall.

- No apparent repairs or significant changes since the last inspection.

- Shallow spalling with exposed reinforcing steel on the concrete cap on the Rt side of Bent 2 undersurface of the cap.

- The Span 1 side of Bent 2 has minor voids at the base of bent.

Masonry Abutment:

- Bent 1, Lt side of the cast in place concrete cap in the bearing area of the exterior stem of Channel 1 has fractured and is no longer in place. This has caused the channel unit to rotate along its longitudinal axis to the point that the Rt stem of the unit is lifted off of the bearing over Bent 2. Cracking and minor rotation of the Lt wing wall. The RT end of Bent # 1 cap has spalling with exposed reinforcing steel.

- Bent # 3 has vertical crack near the center line of the bent.

- The end of channel is supported by earth fill material.

- Rock masonry substructure with grout deterioration between the stone at the base of walls.

- All bents have cracking and spalling in the cast in place concrete caps.

- Cracking between the stone in the wing walls.