



Latitude:33.36687, Longitude:-93.52322

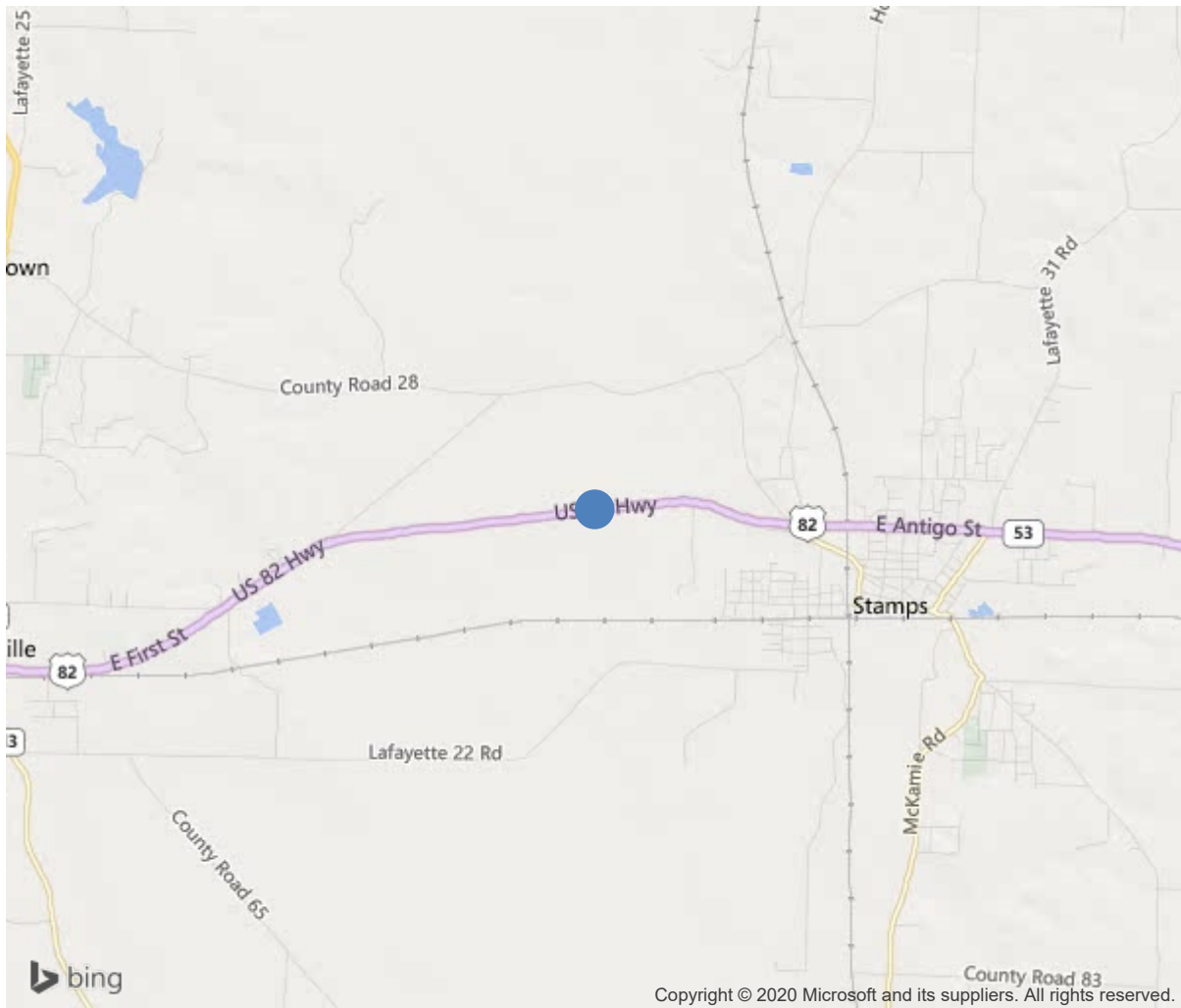
Route:82 Section:02 Log:10.6

Arnold Road ID:37x82x2xA, Arnold Log mile:10.544

District 03, Lafayette County

Owner: 1-State Highway Agency

1 MI WEST OF STAMPS



33.36687, -93.52322



Bridge #02122(Routine)

US 82-02-10.60 over BODCAW CREEK

Location: 1 MI WEST OF STAMPS

Team Lead: Dale Bittle Inspection Date: January 24, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	02122
(5) Inventory Route	82
(2) Highway Agency District	03
(3) County Code	73-Lafayette County, Arkansas
(4) Place Code	0
(6) Features Intersected	BODCAW CREEK
(7) Facility Carried	US 82-02-10.60
(9) Location	1 MI WEST OF STAMPS
(11) Mile Point	10.6 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.3668671613765
(17) Longitude	-93.5232179983457
(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	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	6-Bituminous
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1940
(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	5400
(30) Year of ADT	2018
(109) Truck ADT	16 %
(19) Bypass, Detour Length	3 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	45 ft
(49) Structure Length	362 ft
(50) Curb or Sidewalk Width	
Left	2 ft
Right	2 ft
(51) Bridge Roadway Width Curb to Curb	26.2 ft
(52) Deck Width Out to Out	32.2 ft
(32) Approach Roadway Width (W/Shoulders)	44 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	29.5 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	2-Rural Principal Arterial - Oth		
(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			6
(60) Substructure			6
(61) Channel & Channel Protection			7
(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			36
(65) Inventory Rating Method	1-Load Factor(LF)		
(66) Inventory Rating			
Type			8
Rating			22
(70) Bridge Posting	3-10.0 - 19.9 % below		
(41) Structure Open/Posted/Closed	P-Posted for load (may include o		
APPRAISAL			
(67) Structural Evaluation			5
(68) Deck Geometry			3
(69) Clearances, Vertical/Horizontal			N
(71) Waterway Adequacy			7
(72) Approach Roadway Alignment			8
(36) Traffic Safety Features			1111
A) Bridge Railings	1-Inspected feature meets currently a		
B) Transitions	1-Inspected feature meets currently a		
C) Approach Guardrail	1-Inspected feature meets currently a		
D) Approach Guardrail Ends	1-Inspected feature meets currently a		
(113) Scour Critical Bridges	5-Bridge foundations determined to be		
PROPOSED IMPROVEMENTS			
(75) Type of Work	Replacement of bridge or other		
(76) Length of Structure Improvement	399 ft		
(94) Bridge Improvement Cost	\$ 0		
(95) Roadway Improvement Cost	\$ 400		
(96) Total Project Cost	\$ 1854		
(97) Year of Improvement Cost Estimate	2003		
(114) Future ADT	6399		
(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: Dale Bittle, Inspection Date: January 24, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	11656	11248	408	0	0
1080	Delamination/Spall/Patched Area	SF	2	0	2	0	0
1090	Exposed Rebar	SF	6	0	6	0	0
1120	Efflorescence/Rust Staining	SF	400	0	400	0	0
510	Wearing Surfaces	SF	9484	7294	2000	190	0
3210	Delam/Spall/Patched Area/Pothole	SF	190	0	0	190	0
3220	Crack (Wearing Surface)	SF	2000	0	2000	0	0
(12)							
1120- cracking with efflorescence all spans							
3210- potholes and spalling in AC overlay at joints							
3220- Map like cracking in AC overlay							
Spalls w/ rebar exposed in span 6 and 7, bottom of deck							
Spall on edge of deck at span 4, bent 5 RT side							
107	Steel Open Girder/Beam	LF	1811	1411	0	400	0
1000	Corrosion	LF	400	0	0	400	0
515	Steel Protective Coating	SF	15049	0	14249	800	0
3440	Effectiveness (Steel Protective Coatings)	SF	15049	0	14249	800	0
(107)							
1000- section loss to beam ends							
3440- condition 2 for freckled rusting in all spans all beams. condition 3 for heavier rust at beam ends.							
215	Reinforced Concrete Abutment	LF	72	72	0	0	0
220	Reinforced Concrete Pile Cap/Footing	LF	63	63	0	0	0
226	Prestressed concrete piles	EA	37	31	6	0	0
1080	Delamination/Spall/Patched Area	EA	6	0	6	0	0
(226)							
1080- patched piling at Bents 4 and 5							
234	Reinforced Concrete Pier Cap	LF	200	194	0	6	0
1090	Exposed Rebar	LF	6	0	0	6	0
(234)							
1090- bent 4 and 5 cap right and left end rebar exposed							
303	Assembly Joint with Seal	LF	236	236	0	0	0
311	Movable Bearing	EA	40	0	0	40	0

Team Lead: Dale Bittle, **Inspection Date:** January 24, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1000 (311)	Corrosion	EA	40	0	0	40	0
1000- rust and section loss to all bearings							
313	Fixed Bearing	EA	40	0	0	40	0
1000 (313)	Corrosion	EA	40	0	0	40	0
1000- rust and section loss to all bearings							
331	Reinforced Concrete Bridge Railing	LF	724	562	0	162	0
7000 (331)	Damage	LF	162	0	0	162	0
7000- collision damage to bridge railing. rebar exposed.							



AL



Deck



Underside of deck typical all spans



Posting beginning of bridge



Posting end of bridge

Maintenance Needs

Date Reported: 04/05/2011
Priority: D- Routine
Type of Work: None
Status: Assigned
Component:

Deficiency Description

STRUCTURAL STEEL
ALL SPANS

APPROX. 40% PAINT
DETERIORATION
WITH HEAVY RUST & SOME SECTION LOSS TO BEAM ENDS.

Remarks



Rust at beam ends



Rust on beams all spans typical



End of beam and bottom flange beam 1 span span
8 over bent 7



Beam rust typical



Corrosion end of beam 5 bent 8 pack rust and
section loss

Date Reported: 04/05/2011
Priority: D- Routine
Type of Work: None
Status: Assigned
Component:

Deficiency Description

BEARINGS
BENTS #1 THRU #9

ADVANCED RUST WITH
SECTION LOSS TO ALL
BEARINGS.

Remarks



Bearings rust and section loss Bents 1-9



Section loss to bearings



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Team Lead: Dale Bittle Inspection Date: January 24, 2020

Date Reported: 04/05/2011
Priority: D- Routine
Type of Work: None
Status: Assigned
Component:

Deficiency Description

CONCRETE CAPS

- 1) BENTS #4 & #5
SPALLS & DELAMS. ON
FACE OF CAPS AT ENDS OF CAP
- 2) BENTS #1 & #9
DEBRIS ON CAPS AND
BEARINGS

Remarks



Debris on caps 1&9



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Location: 1 MI WEST OF STAMPS

Team Lead: Dale Bittle **Inspection Date:** January 24, 2020



Rebar exposed and spall right end of bent 5 cap

Date Reported: 04/05/2011
Priority: D- Routine
Type of Work: None
Status: Assigned
Component:

Deficiency Description

CONCRETE CURBS &
SIDEWALKS

LT. SIDE OF DECK HAS
SALT CONTAMINATION
W/ REBAR EXP'D TO CURB
AND SIDEWALK. 1/14/2020...RT side curb and sidewalk has loose asphalt and debris.

Remarks



Curb left side various locations spalls



Spalls with rebar exposed curb left side various locations



Curb left side spalls various locations



RT side curb and sidewalk has loose asphalt and debris.



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Location: 1 MI WEST OF STAMPS

Team Lead: Dale Bittle Inspection Date: January 24, 2020

Date Reported: 01/15/2020
Priority: D- Routine
Type of Work: Repair
Status: Assigned
Component: Approach

Deficiency Description

Log mile sign down at beginning of bridge, RT side.

Remarks



Log mile sign down at beginning of bridge, RT side.



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Inspection Comments

1/14/2020...Routine and Underwater Type 2. AL, SS, Deck, Def. Photos taken. Log mile sign down at beginning of bridge, RT side. Little or no change in soundings...

Deck Notes

6 SATISFACTORY...8 SPAN STEEL MULTI. BEAM.

10-9-07, log mile changed from 10.81 to "10.60" due to straight line sent in from Planning and Research, by crr.

CONC. CURBS HAVE HEAVY SALT DAMAGE IN VARIOUS LOCATIONS....1/24/2019...AL, SS, Deck, Def. Photos taken. All joints have asphalt that is becoming unraveled and or missing causing impact loading in the adjoining spans and causing water and debris to collect on the caps...8/6/2019...Wearing surface on deck has changed from 2.5 in. to 3.5 in. due to mill and inlay on job #030540...08/07/2019 The referenced bridge has been load rated and a change in load posting is recommended. per ABM Abdullah...9/4/19....a semi truck damaged 160 ft of the guardrail on the southwest side of the bridge and broke the 3' wing loose from it's foundation,no other damage noticed..

Superstructure Notes

6 SATISFACTORY PAINT SYSTEM HAS FAILED ON BEAMS W/ SURFACE RUST AND SOME SECTION LOSS TO ENDS OF BEAMS OVER CAPS.

Substructure Notes

6 SATISFACTORY PILE/COLUMNS @ BT. #4 & #5 ARE SPALLED W/ REBAR EXPOSED SPALLS ON CAPS AT BENT #4 & #5.