



Latitude:33.59681, Longitude:-92.14142

Route:278 Section:12 Log:12.017

Arnold Road ID:6x278x12xA, Arnold Log mile:11.95

District 07, 11 - Bradley County

Owner: 1 - State Highway Agency



33.59681, -92.14142



IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	A0818
(5) Inventory Route	1
(2) Highway Agency District	07 - District 07
(3) County Code	11 - Bradley County
(4) Place Code	0
(6) Features Intersected	BEECH CREEK
(7) Facility Carried	US 278 S-12LM12.01
(9) Location	12.02 MI E CALHOUN CO LIN
(11) Mile Point	12.017 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000278120
(16) Latitude	33.596806
(17) Longitude	-92.141418
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	11
Material	1 - Concrete
Type	1 - Slab
(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	6 - Bituminous
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1954
(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	1500
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	12 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	75 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	26 ft
(52) Deck Width Out to Out	29.6 ft
(32) Approach Roadway Width (W/Shoulders)	36.1 ft
(33) Bridge Median	0 - No median
(34) Skew	0 Deg
(35) Structure Flared	0 - 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 w
(111) Pier Protection	1 - Navigation protection not
(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
(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
(20) Toll	3 - On free road. The structure
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	7
(59) Superstructure	7
(60) Substructure	6
(61) Channel & Channel Protection	6
(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
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	30
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	6
(68) Deck Geometry	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	6
(72) Approach Roadway Alignment	7
(36A) Bridge Railings	0 - Inspected feature does not meet
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	1 - Inspected feature meets current
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	5 - Bridge foundations determined t
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	2044
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			06/07/2022
(91) Frequency			24
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
* 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.			



Asset #A0818(Routine)

District: 07, County: 11 - Bradley County

Team Lead: Rickie Bratton, Inspection Date: 06/07/2022

51 - Bridge Roadway Width Curb-To-Curb (26)

06/23/2020 JPR -- Per plans, clear roadway on the BR is 26' 0".

A-46 - Asset Files

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General Observation (False)

Logged west to east.



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	2213	2154	59	0	0
1080	Delamination/Spall/Patched Area	SF	2	0	2	0	0
1120	Efflorescence/Rust Staining	SF	42	0	42	0	0
1130	Cracking (RC and Other)	SF	15	0	15	0	0
510	Wearing Surfaces	SF	1950	568	1382	0	0
3210	Delam/Spall/Patched Area/Pothole	SF	53	0	53	0	0
3220	Crack (Wearing Surface)	SF	1329	0	1329	0	0
<p>(38) Spans 1-3 have patches in wearing surface.</p> <p>Soffit- All spans with cracks and light efflorescence.</p> <p>06/23/2020 JPR -- Per plans deck area = L x W = (75' 0" x 29' 6") = 2212.5 sq.ft. = 2213 sq.ft.)</p> <p>(510-38) 06/23/2020 JPR -- per plans, curb to curb = 26'0" and ACHM overlay goes from curb to curb, therefore (75' 0' x 26'0" = 1950 sq.ft.)</p>							
215	Reinforced Concrete Abutment	LF	76	76	0	0	0
227	Reinforced Concrete Pile	EA	8	0	8	0	0
1190	Abrasion/Wear (PSC/RC)	EA	8	0	8	0	0
<p>(227) Bents 2 and 3, have abrasion to piles.</p>							
234	Reinforced Concrete Pier Cap	LF	119	110	0	9	0
1080	Delamination/Spall/Patched Area	LF	6	0	0	6	0
1090	Exposed Rebar	LF	3	0	0	3	0
<p>(234) 06/23/2020 JPR -- Per plans (29.75' x 4 caps = 119 LF.)</p> <p>(1080-234) 06/23/2020 JPR -- Changed ratings from a 2 - 3 due to guidelines in manual.</p> <p>(1090-234) 06/23/2020 JPR -- Changed rating from a 2 - 3 per guidelines in the manual.</p>							
301	Pourable Joint Seal	LF	59	7	0	0	52
2350	Debris Impaction	LF	52	0	0	0	52
<p>(301) Joints have asphalt overlay.</p>							
330	Metal Bridge Railing	LF	150	150	0	0	0



Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	2213	2154	59	0	0
1080	Delamination/Spall/Patched Area	SF	2	0	2	0	0
1120	Efflorescence/Rust Staining	SF	42	0	42	0	0
1130	Cracking (RC and Other)	SF	15	0	15	0	0
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Asset #A0818(Routine)

US 278 S-12LM12.01 over BEECH CREEK

Location: 12.02 MI E CALHOUN CO LIN

Team Lead: Rickie Bratton, Inspection Date: 06/07/2022

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
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Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	76	76	0	0	0
227	Reinforced Concrete Pile	EA	8	0	8	0	0
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(227) Bents 2 and 3, have abrasion to piles.							
234	Reinforced Concrete Pier Cap	LF	119	110	0	9	0
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(234) 06/23/2020 JPR -- Per plans (29.75' x 4 caps = 119 LF.)							
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(1090-234) 06/23/2020 JPR -- Changed rating from a 2 - 3 per guidelines in the manual.							



Elevation.



Underside



Deck



Deck overview.



Span 2 soffit overview.



Roadway



Approach roadway Eastbound.



Approach roadway.



Span 1, cracks with efflorescences and staining.



Deck overview.



Elevation.



Profile



Span 1 soffit cracks with efflorescence.



Bent 3 cap right end spalled with exposed rebar, common bent 2 cap.



Bent 3 cap back large delam.



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US 278 S-12LM12.01 over BEECH CREEK

Location: 12.02 MI E CALHOUN CO LIN

Team Lead: Rickie Bratton, Inspection Date: 06/07/2022

Maintenance Needs

Date Reported: 06/12/2012
Priority: D- Routine
Type of Work: (Inactive) (Inactive) 9 - None
Status: Monitor
Component:

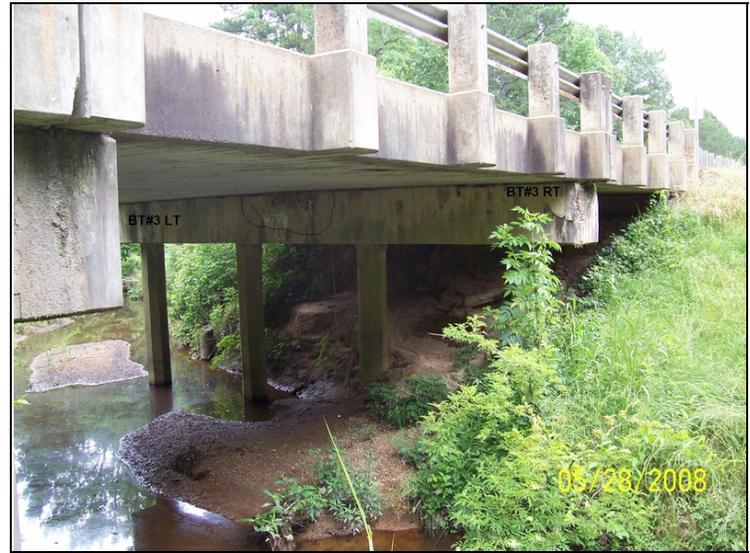
Deficiency Description

Bents 2 and 3 caps are cracked and spalled especially near ends and center of back side of bent 3 cap. With some exposed steel with section loss on bent 3 right end.

Remarks



Bent 3 cap spalled



Bt.'s 2 and 3 caps are cracked and spalled especially near the ends on rt. side.



Bent 3 cap right end spalled with exposed rebar,
common bent 2 cap.

Date Reported: 12/22/2020
Priority: C - Important
Type of Work: Repair (General)
Status: Monitor
Component: Channel

Deficiency Description

Scour abutment 1

Remarks



Scour abutment 1



Underside looking at scour @ C/L of bridge.



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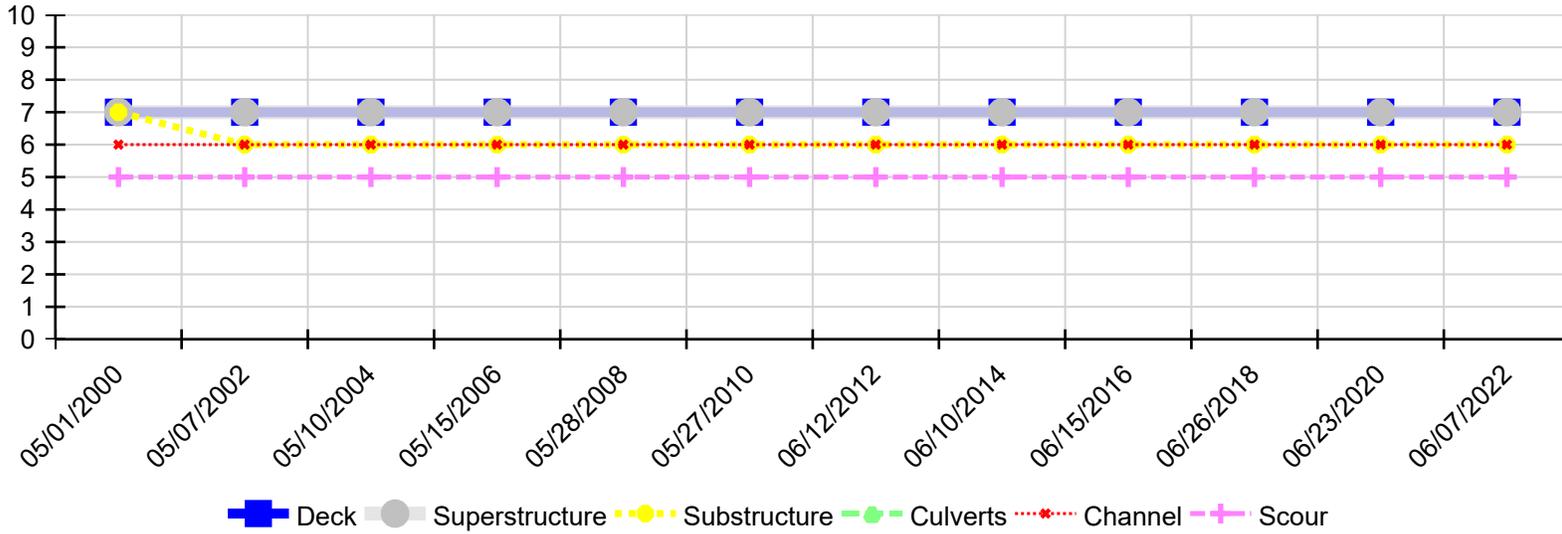
Routine Maintenance

Check Box Maintenance Items

Data Field	Value
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	
A-56 - Joint Cleaning/Flushing Needed	
A-57-Beam End and Bearing Paint Needed	
A-58 - Cap Cleaning/Flushing Needed	
A-59 - Joint Repair Needed	
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	
A-62 - Hydo and LMC Advised	



Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
06/07/2022	7	7	6	N	6	5
06/23/2020	7	7	6	N	6	5
06/26/2018	7	7	6	N	6	5
06/15/2016	7	7	6	N	6	5
06/10/2014	7	7	6	N	6	5
06/12/2012	7	7	6	N	6	5
05/27/2010	7	7	6	N	6	5
05/28/2008	7	7	6	N	6	5
05/15/2006	7	7	6	N	6	5
05/10/2004	7	7	6	N	6	5
05/07/2002	7	7	6	N	6	5
05/01/2000	7	7	7	N	6	5