



Latitude:33.68906, Longitude:-91.66574

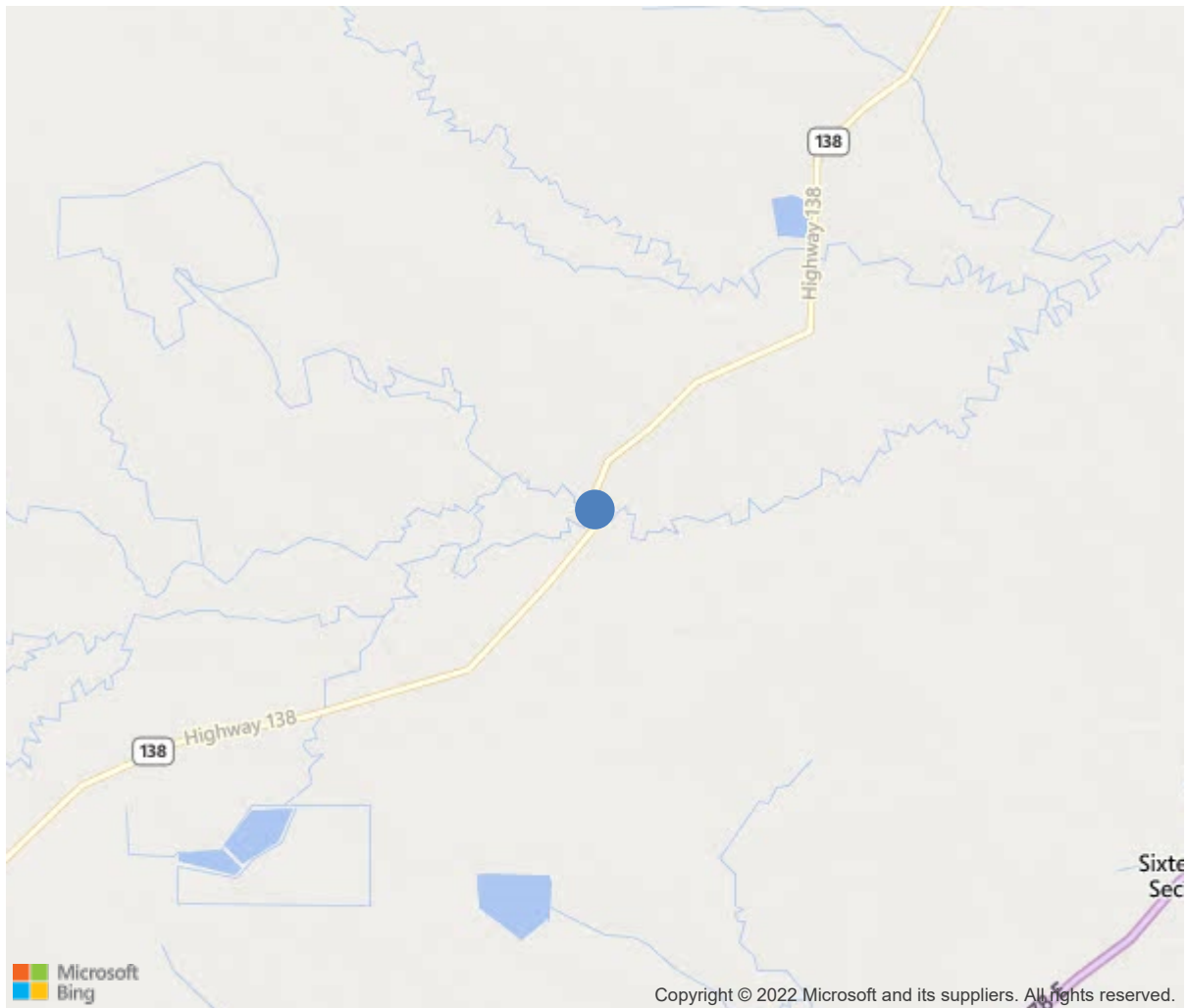
Route:138 Section:03 Log:7.82

Arnold Road ID:22x138x3xA, Arnold Log mile:7.917

District 02, Drew County

Owner: 1-State Highway Agency

7.82 Mi N US278-Pine Hill



33.68906, -91.66574

Inspection Direction : W to E



Bridge #M3079(Routine)

SH 138-03 LM 7.82 over Lower Cut-Off Creek

Location: 7.82 Mi N US278-Pine Hill

Team Lead: Sharon Hooks Inspection Date: August 26, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	M3079
(5) Inventory Route	138
(2) Highway Agency District	02
(3) County Code	43-Drew County, Arkansas
(4) Place Code	0
(6) Features Intersected	Lower Cut-Off Creek
(7) Facility Carried	SH 138-03 LM 7.82
(9) Location	7.82 Mi N US278-Pine Hill
(11) Mile Point	7.82 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.6890640058205
(17) Longitude	-91.6657367738088
(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	3
(46) No. of Approach Spans	0
(107) Deck Structure Type	2-Concrete Precast Panels
(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	1967
(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	900
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	17 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	31 ft
(49) Structure Length	69.8 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	24.3 ft
(52) Deck Width Out to Out	26.2 ft
(32) Approach Roadway Width (W/Shoulders)	25.9 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	24 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	5-None present but re-evaluation
(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	7-Rural Major 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	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	6
(60) Substructure	6
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	0-Other or Unknown
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	50
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	3
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	4
(68) Deck Geometry	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	5
(36A) Bridge Railings	0-Inspected feature does not meet cur
(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	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	886
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	08/2020		
(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.			

**Team Lead:** Sharon Hooks, **Inspection Date:** August 26, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	1814	778	1005	31	0
1190	Abrasion/Wear (PSC/RC)	SF	1036	0	1005	31	0
(16) Deck: 26' wide x 69.75 long. Some light abrasive wear on interior units - Span 3 Unit 2 has some areas of deeper abrasion and more loss of mortar and fine aggregates. Joints are completely grouted and grout is in good condition. Span 3 Unit 4 @ Bent 4: Small patches in keyway surface.							
110	Reinforced Concrete Open Girder/Beam	LF	488	467	15	6	0
1090	Exposed Rebar	LF	3	0	0	3	0
1130	Cracking (RC and Other)	LF	18	0	15	3	0
(110) Girders: 7 precast channel beam units per span / 19' (Spans 1 & 3) + 31' (Span 2) = 69.75' total. Units are bolted longitudinally and transversely - no noted missing or loose bolts. All spans have very small vertical flexure cracks in channel legs. Span 3 Unit 2: Cracking with some rebar exposed on right leg at 50% point - 3' CS3 rebar/ 3' CS3 crack.							
216	Timber Abutment	LF	64	52	8	4	0
1140	Decay/Section Loss	LF	12	0	8	4	0
(216) Backwalls: 32' each / Bents 1 & 4. Some minor to moderate decay.							
228	Timber Pile	EA	20	4	13	3	0
1020	Connection	EA	9	0	9	0	0
1140	Decay/Section Loss	EA	1	0	0	1	0
1150	Check/Shake	EA	6	0	4	2	0
(228) Pile: 5 each bents 1-4 Small checks with initial inside decay starting on most pile  Bent 2 pile 2 large checks. Bent 2 pile 4 large checks. Bent 2 Pile 5: Decaying with large checks - CS3 decay.  Bent 3 pile 1 checking. Bent 3 pile 2 checking. Bent 3 pile 3 checking Bent 3 pile 4 checking.							
"Old Notes." These pile have been repaired by State Forces 2020							

**Team Lead:** Sharon Hooks, **Inspection Date:** August 26, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
Bent 1 pile 1 has hollow area from cap down to repair. Bent 1 pile 2 hollow area at cap. Bent 1 pile 3 hollow from cap down to ground line. Bent 1 pile 4 heavy decay from cap down to ground line. Bent 1 pile 5 some decay.  Bent 4 Pile 1 hollow areas Bent 4 pile 2 hollow with only outer shell remaining. Bent 4 pile 3 hollow with shell remaining . Bent 4 pile 4 checking. Bent 4 pile 5 hollow with only outer shell remaining.							
Bent 1 pile 1 previously repaired.							
234	Reinforced Concrete Pier Cap	LF	106	91	15	0	0
1080	Delamination/Spall/Patched Area	LF	12	0	12	0	0
1090	Exposed Rebar	LF	3	0	3	0	0
(234)  Cap: 26.5' each / Bents 1-4. Bents 1 & 4: Some spalling on ends under railing posts. Bents 2 & 3: Contact spalls under channel legs. Bent 3 cap has small spalls with exposed rebar on bottom of cap.							
301	Pourable Joint Seal	LF	50	0	40	10	0
2350	Debris Impaction	LF	50	0	40	10	0
(301)  Pourable joint seals. 25' each bents 2 & 3. Joints are filled with loose gravel and debris.							
330	Metal Bridge Railing	LF	140	140	0	0	0
515	Steel Protective Coating	SF	350	0	350	0	0
3410	Chalking (Steel Protective Coatings)	SF	350	0	350	0	0
(330)  Railing: 70' each side. Coating: 2.5 square feet per linear feet of railing. Metal rail on concrete posts. Railing is dull and has no luster and primer is beginning to show through.							





Approach.



Under view of span1.





Bent 1 pile repaired.



Deck over view.



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Location: 7.82 Mi N US278-Pine Hill

Team Lead: Sharon Hooks Inspection Date: August 26, 2020

## Maintenance Needs

Date Reported: 08/20/2019

Priority: D- Routine

Type of Work: None

Status: Monitor

Inspection Direction W to E

Component:

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### Deficiency Description

Caps bents 2 & 3 have small contact spalls under channel legs.

### Remarks

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Date Reported: 08/12/2013

Priority: G - General/ Preventive maintenance



**Type of Work:** N/A  
**Status:** Assigned  
**Inspection Direction** W to E  
**Component:**

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**Deficiency Description**

Approach railing - Bent 1 right: Minor collision damage to railing and a couple of posts.

**Remarks**

Repaired by State forces.

put this into your schedule as you can

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Approach railing - Bent 1 right: Damage



South east end of bridge, Guard rail damage



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**Team Lead:** Sharon Hooks **Inspection Date:** August 26, 2020



Image is not transferred  
to inspectX yet.

Thanks for your patience.

Approach railing - Bent 1 right: Damage



Bridge #M3079(Routine)  
SH 138-03 LM 7.82 over Lower Cut-Off Creek  
Location: 7.82 Mi N US278-Pine Hill

Team Lead: Sharon Hooks Inspection Date: August 26, 2020

Date Reported: 08/31/2020  
Priority: G - General/ Preventive maintenance  
Type of Work: Repair  
Status: Open  
Inspection Direction W to E  
Component:

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#### Deficiency Description

Bent 4 left guard railing has damage.

#### Remarks

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Bent 4 left approach railing on eastern end of bridge has damage.





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Team Lead: Sharon Hooks Inspection Date: August 26, 2020

Date Reported: 08/31/2020  
Priority: D- Routine  
Type of Work: Repair  
Status: Open  
Inspection Direction W to E  
Component: Bridge

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#### Deficiency Description

Bent 2 pile 2 large checks.  
Bent 2 pile 4 large checks.  
Bent 2 Pile 5: Decaying with large checks - CS3 decay.

Bent 3 pile 1 checking.  
Bent 3 pile 2 checking.  
Bent 3 pile 3 checking  
Bent 3 pile 4 checking.

#### Remarks

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**Bridge #M3079**(Routine)

**SH 138-03 LM 7.82 over Lower Cut-Off Creek**

**Location: 7.82 Mi N US278-Pine Hill**

**Team Lead:** Sharon Hooks **Inspection Date:** August 26, 2020

### **Inspection Comments**

Beginning of structure toward US 278, Monticello, South End.

06-26-2007, Dropping UW inspection due to sub-str. elements are not continuously submerged. High water events occur. NBI Items

#60 and #61 will represent all elements that occasionally stand in water. RLW.

Item 113 changed from U to 5. Low risk of Scour, Structural foundation assessed as stable. See HEC 18 Chapters 10 and J.15. DMH (8/12/09)