



Latitude:33.77993, Longitude:-91.44583

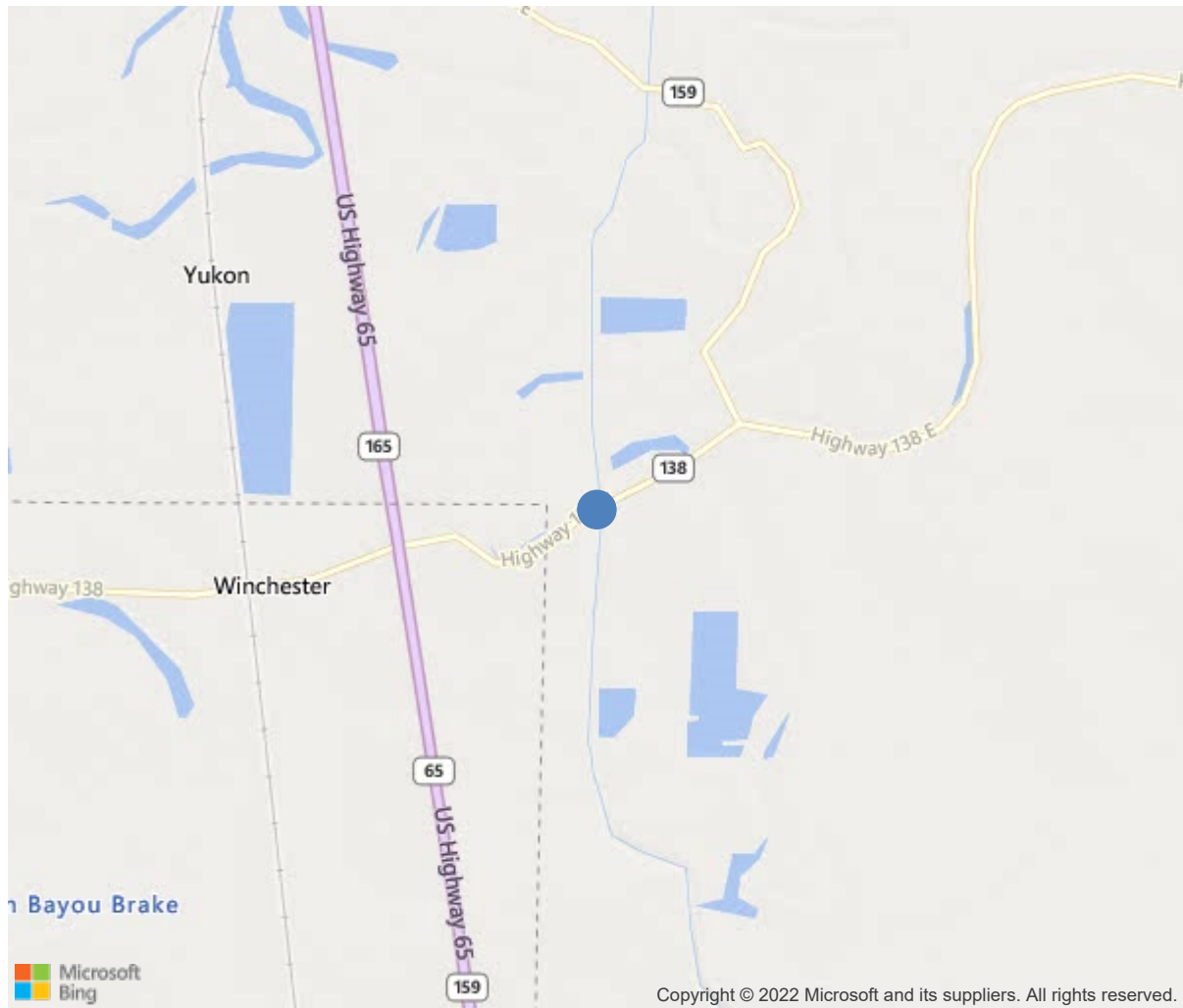
Route:138 Section:04 Log:0.3

Arnold Road ID:21x138x4xA, Arnold Log mile:0.32

District 02, Desha County

Owner: 1-State Highway Agency

1.1 Mi E US 65-Winchester



33.77993, -91.44583



Bridge #07127(Routine)

SH 138-04 LM 0.30 over Canal No. 19

Location: 1.1 Mi E US 65-Winchester

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

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	07127
(5) Inventory Route	138
(2) Highway Agency District	02
(3) County Code	41-Desha County, Arkansas
(4) Place Code	0
(6) Features Intersected	Canal No. 19
(7) Facility Carried	SH 138-04 LM 0.30
(9) Location	1.1 Mi E US 65-Winchester
(11) Mile Point	0.3 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.77993
(17) Longitude	-91.44583
(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	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	1-Monolithic Concrete (concurrently placed
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	2010
(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	550
(30) Year of ADT	2014
(109) Truck ADT	9 %
(19) Bypass, Detour Length	8 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	80 ft
(49) Structure Length	212.4 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	29.9 ft
(52) Deck Width Out to Out	33.2 ft
(32) Approach Roadway Width (W/Shoulders)	34.1 ft
(33) Bridge Median	0-No median
(34) Skew	25 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	31.2 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	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	8
(59) Superstructure	8
(60) Substructure	8
(61) Channel & Channel Protection	8
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	A-HL93
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	60
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	3
Rating	36
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	8
(68) Deck Geometry	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1-Inspected feature meets currently a
(36B) Transitions	1-Inspected feature meets currently a
(36C) Approach Guardrail	1-Inspected feature meets currently a
(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	ft
(94) Bridge Improvement Cost	\$
(95) Roadway Improvement Cost	\$
(96) Total Project Cost	\$
(97) Year of Improvement Cost Estimate	
(114) Future ADT	650
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	05/2020		
(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.			



Bridge #07127(Routine)

SH 138-04 LM 0.30 over Canal No. 19

Location: 1.1 Mi E US 65-Winchester

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

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	6996	6972	24	0	0
1130	Cracking (RC and Other)	SF	24	0	24	0	0
(12)	Deck: 33' wide x 212' long. Span 2: Small transverse crack in left lane Span 3: Small transverse cracks in scattered locations.						
107	Steel Open Girder/Beam	LF	840	840	0	0	0
515	Steel Protective Coating	SF	6972	6972	0	0	0
(107)	Girders: 4 per span / Spans 1-3 (212' total span). Coating: 8.3 square feet per linear feet of girder. Uniform covering of a light reddish brown rust building over all steel members.						
215	Reinforced Concrete Abutment	LF	70	63	7	0	0
1130	Cracking (RC and Other)	LF	7	0	7	0	0
(215)	Abutment: 35' each / Bents 1 & 4. Bents 1 & 4: Minor-sized cracks across top and down face of backwall.						
226	Prestressed concrete piles	EA	8	8	0	0	0
(226)	Piling: 4 per bent / Bents 2-3.						
234	Reinforced Concrete Pier Cap	LF	70	70	0	0	0
(234)	Caps: 35' each / Bents 2-3.						
301	Pourable Joint Seal	LF	66	62	4	0	0
2320	Seal Adhesion	LF	4	0	4	0	0
(301)	Joints: 33' each / Bents 1 & 4. Bent 1: Lost bond at gutterline - left side.						
310	Elastomeric Bearing	EA	16	16	0	0	0
(310)	Bearings: 4 per bent / Bents 1-4.						
331	Reinforced Concrete Bridge Railing	LF	424	399	25	0	0
1130	Cracking (RC and Other)	LF	25	0	25	0	0



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

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(331)	Railing: 112' each side. Scattered hairline-sized vertical cracks.						





Deck cracking.



Overview of soffit and girders.





Deck overview.



Approach.





Deck cracking.





Deck cracking.

## Maintenance Needs

**Date Reported:** 06/13/2018  
**Priority:** G - General/ Preventive maintenance  
**Type of Work:** N/A  
**Status:** Assigned  
**Component:**

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## Deficiency Description

Endslopes - Spans 1 and 3: Several small trees, bushes, and other vegetation growing up under bridge.

## Remarks

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Endslope - Span 1 : Vegetation





**Bridge #07127**(Routine)

**SH 138-04 LM 0.30 over Canal No. 19**

**Location: 1.1 Mi E US 65-Winchester**

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

**Date Reported:** 06/13/2018  
**Priority:** C - Important  
**Type of Work:** N/A  
**Status:** Repair Documented  
**Component:**

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### Deficiency Description

Log mile signs - both ends: No signs either end - posts and object markers in place.  
Signs in place 2020

### Remarks

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Roadway view



**Bridge #07127**(Routine)

**SH 138-04 LM 0.30 over Canal No. 19**

**Location: 1.1 Mi E US 65-Winchester**

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

### **Inspection Comments**

Beginning of structure toward US 65, West End. Bridge 000000000007127 entered 6/9/2010 10:55:02 by userid rlw. Built under Job #020465, FAP #BRN-0021(31). Design Specs. Live Load - HL-93. Replaced old structure #03599. Sub-structure elements are not continuously submerged. Note: Items 526A and 527A coded 0 - piles are prestressed concrete. Assigned Item 113 - 5, per designers' calculations. DRB, 6/22/10