



Latitude:35.29307, Longitude:-90.79149

Route:1 Section:14 Log:2.71

Arnold Road ID:19x1x14xA, Arnold Log mile:2.705

District 01, Cross County

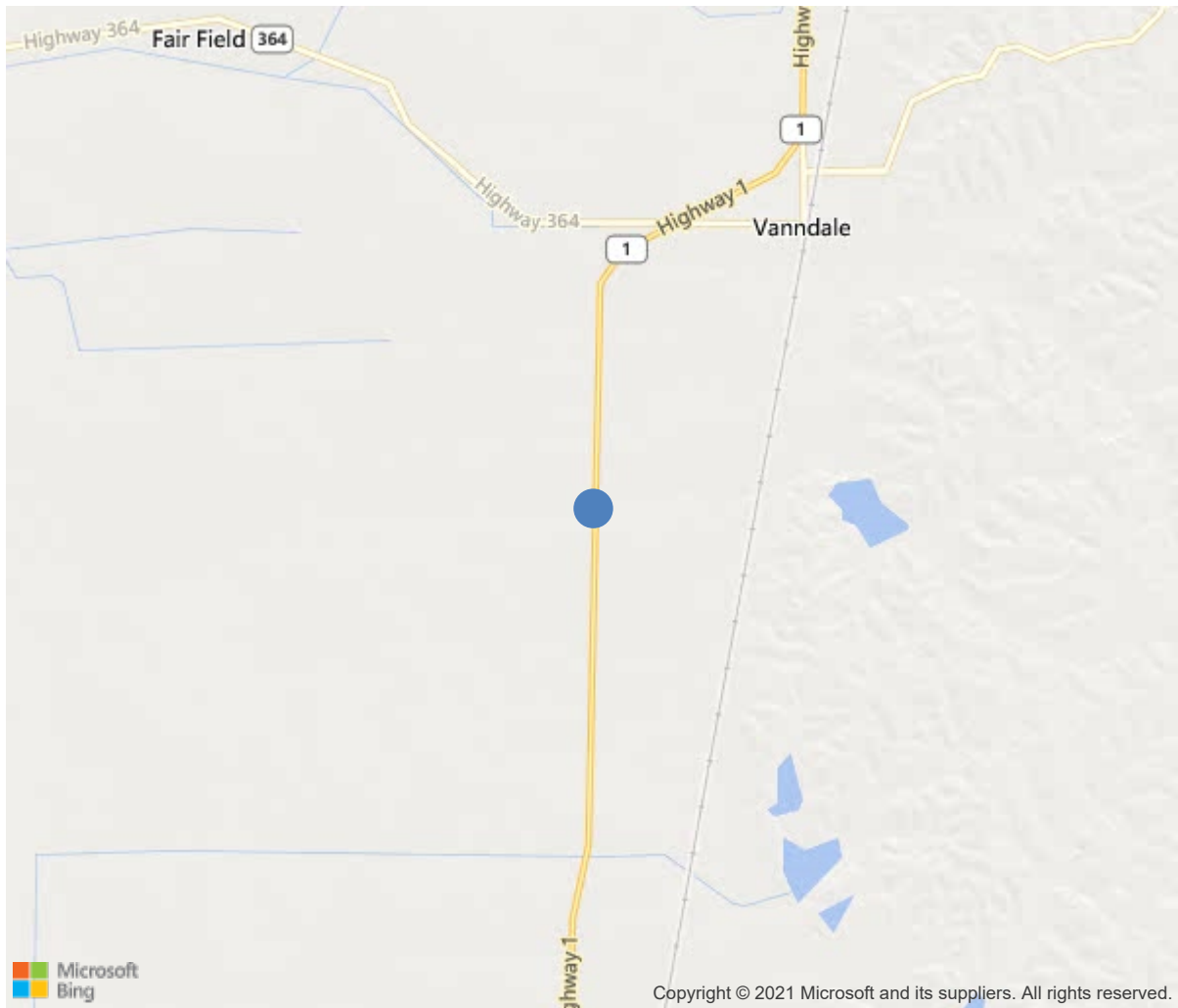
Owner: 1-State Highway Agency



**Bridge #03578(Routine)**  
**Sh-1/Sec-14/L-2.71 over Drainage Ditch**  
**Location: 2.71 Mi North Jct Us 64**

**Team Lead:** Drew Melton **Inspection Date:** August 27, 2020

2.71 Mi North Jct Us 64



35.29307, -90.79149



**Bridge #03578(Routine)**  
**Sh-1/Sec-14/L-2.71 over Drainage Ditch**  
**Location: 2.71 Mi North Jct Us 64**

**Team Lead: Drew Melton Inspection Date: August 27, 2020**

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03578
(5) Inventory Route	1
(2) Highway Agency District	01
(3) County Code	37-Cross County, Arkansas
(4) Place Code	0
(6) Features Intersected	Drainage Ditch
(7) Facility Carried	Sh-1/Sec-14/L-2.71
(9) Location	2.71 Mi North Jct Us 64
(11) Mile Point	2.71 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000001140
(16) Latitude	35.29307
(17) Longitude	-90.79149
(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	1-Monolithic Concrete (concurrently placed
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1966
(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	5900
(30) Year of ADT	2019
(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	1.3 ft
Right	1.3 ft
(51) Bridge Roadway Width Curb to Curb	27.9 ft
(52) Deck Width Out to Out	33.5 ft
(32) Approach Roadway Width (W/Shoulders)	27.9 ft
(33) Bridge Median	0-No median
(34) Skew	30 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	27.9 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	0 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	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	6
(59) Superstructure	6
(60) Substructure	7
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	5-MS 18 / HS 20
(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	7
(68) Deck Geometry	2
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(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	5287
(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:** Drew Melton, **Inspection Date:** August 27, 2020

[illegible]



**Team Lead:** Drew Melton, **Inspection Date:** August 27, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
Joint material is coming out allowing non compressibles to enter.							
330	Metal Bridge Railing	LF	150	0	150	0	0
1000	Corrosion	LF	150	0	150	0	0
515	Steel Protective Coating	SF	450	0	225	0	225
3440	Effectiveness (Steel Protective Coatings)	SF	450	0	225	0	225
(330)							
Spotty rust on rails full length.							
Beginning post abutment 1 right side is broken at base.							
Last post span three on left side has one foot spall with rebar exposed.							



**Bridge #03578**(Routine)

**Sh-1/Sec-14/L-2.71 over Drainage Ditch**

**Location: 2.71 Mi North Jct Us 64**

**Team Lead:** Drew Melton **Inspection Date:** August 27, 2020

## Maintenance Needs

**Date Reported:** 10/13/2014  
**Priority:** C - Important  
**Type of Work:** Repair  
**Status:** Monitor  
**Component:** Deck

---

## Deficiency Description

Deck all spans have open transverse and longitudinal cracks all spans.  
Spans #1 and #3 have one crack up to 1/8" wide at center span.

## Remarks

---



Crack in center of span three



Crack in span one.



**Date Reported:** 10/13/2014  
**Priority:** D- Routine  
**Type of Work:** Clean  
**Status:** Monitor  
**Component:** Approach

---

**Deficiency Description**

Vegetation and trees are growing under and beside bridge, left and right sides at all spans.

**Remarks**

---



Vegetation growing beside and under bridge.



Vegetation growing beside and under bridge.



**Date Reported:** 08/21/2018  
**Priority:** C - Important  
**Type of Work:** Repair  
**Status:** Monitor  
**Component:** Approach

---

**Deficiency Description**

Abutment #1 right side slope erosion has moved closer to bridge beyond previous repairs

**Remarks**

---



Erosion at abutment #1 right side

**Date Reported:** 08/27/2020  
**Priority:** C - Important  
**Type of Work:** Repair  
**Status:** Open  
**Component:** 301 - Pourable Joint Seal

---

**Deficiency Description**

Material at all joints has failed allowing debris to enter.

**Remarks**

---



Joint at abutment two



Joint at bent three.



**Bridge #03578 (Routine)**  
**Sh-1/Sec-14/L-2.71 over Drainage Ditch**

**Location: 2.71 Mi North Jct Us 64**

**Team Lead:** Drew Melton **Inspection Date:** August 27, 2020



Joint at bent two.



**Date Reported:** 08/27/2020  
**Priority:** D- Routine  
**Type of Work:** Clean  
**Status:** Open  
**Component:** Deck

---

**Deficiency Description**

Dirt and debris have filled gutters.

**Remarks**

---



Dirt and debris built up in gutters on left side.



Debris in gutters on right side.



**Date Reported:** 08/27/2020  
**Priority:** D- Routine  
**Type of Work:** Repair  
**Status:** Open  
**Component:** Deck

---

**Deficiency Description**

Deck span two has three foot patched spall that has failed. span three has a one foot spall with exposed rebar.

**Remarks**

---



Spall in span three.



Spall in span two.

**Date Reported:** 08/27/2020  
**Priority:** D- Routine  
**Type of Work:** Repair  
**Status:** Open  
**Component:** 234 - Reinforced Concrete Pier Cap

---

**Deficiency Description**

Bent #2 cap backface has 1' spall with exposed rebar above pile #4 at top.  
Bent #3 cap backface has 2' spall with exposed rebar above pile #4 at top.  
Bent #3 cap right side has two spalls on outside.

**Remarks**

---



Spall bent three back face.



Bent three cap right side.



Bent two back face spall





**Bridge #03578**(Routine)  
**Sh-1/Sec-14/L-2.71 over Drainage Ditch**  
**Location: 2.71 Mi North Jct Us 64**

**Team Lead:** Drew Melton **Inspection Date:** August 27, 2020

### **Inspection Comments**

Drawing number: 11665, 11668, 5422L, 5423.

08/27/2020 Lowered deck from 7 to 6 due to cracks and spalls.

08/27/2020 Lowered superstructure from 7 to 6 due to cracks and spalls.

Abutment #2 right approach gutter curb has 2' broken area at bridge end.

Vegetation and trees are growing beside and under bridge all spans both sides of bridge.

Dirt and debris is built up in gutters on both sides of bridge.

---

### **Deck Notes**

08/27/2020 Lowered deck from 7 to 6 due to cracks and spalls.

---

### **Superstructure Notes**

08/27/2020 Lowered superstructure from 7 to 6 due to cracks and spalls.