



Latitude:35.79400, Longitude:-91.36700

Route:70 Section:00 Log:1.919

Arnold Road ID:32xWPARDx0xA, Arnold Log mile:0.249

District 05, Independence County

Owner: 2-County Highway Agency

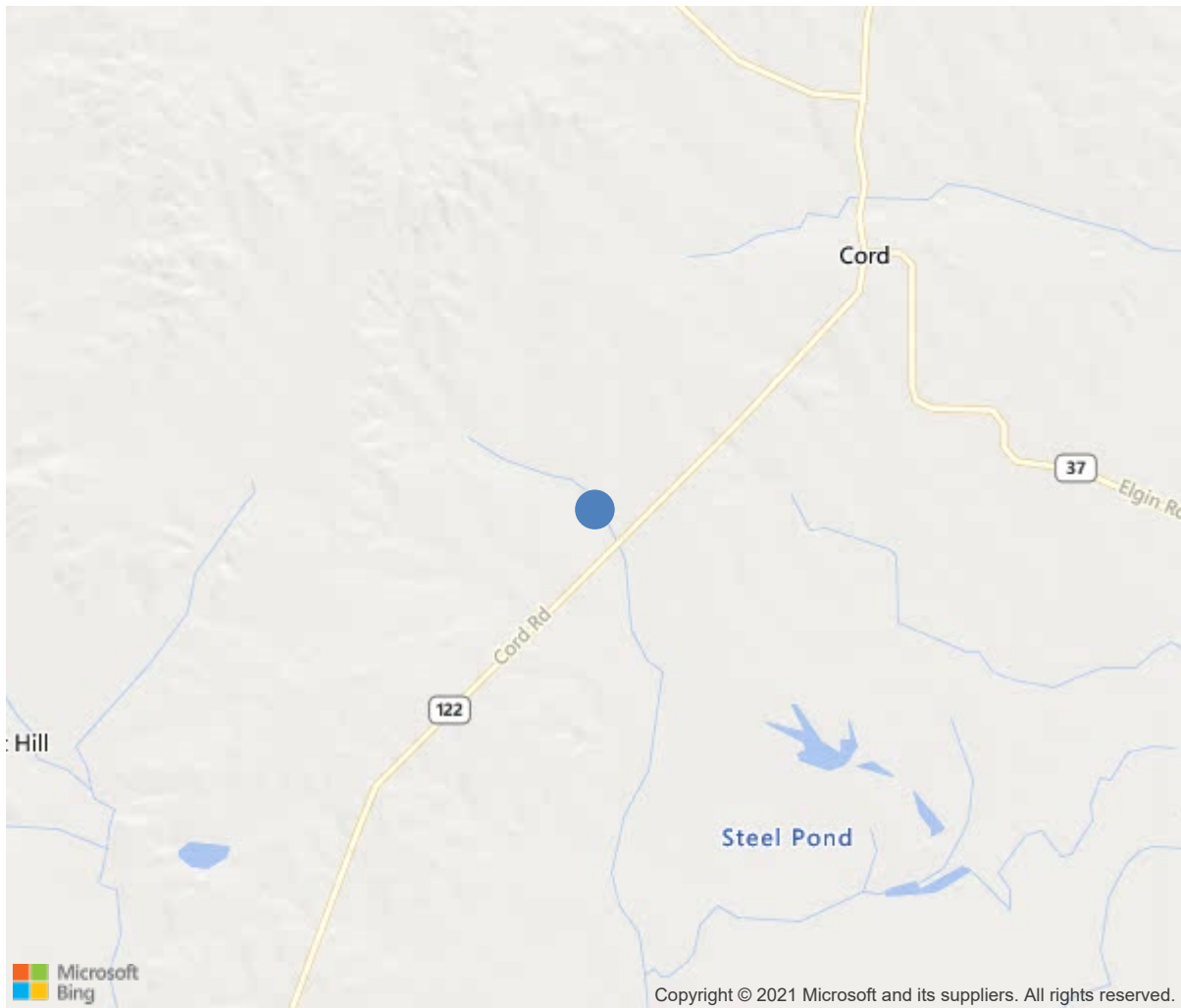


Bridge #21771 (Routine)  
CR70/Independ. Co. over CARTER CREEK

Location: .25 M W SH 122

Team Lead: Nathan Edwards Inspection Date: February 24, 2021

.25 M W SH 122



35.79400, -91.36700



**Bridge #21771(Routine)**  
**CR70/Independ. Co. over CARTER CREEK**

**Location: .25 M W SH 122**

**Team Lead: Nathan Edwards Inspection Date: February 24, 2021**

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	21771
(5) Inventory Route	70
(2) Highway Agency District	05
(3) County Code	63-Independence County, Arkans
(4) Place Code	0
(6) Features Intersected	CARTER CREEK
(7) Facility Carried	CR70/Independ. Co.
(9) Location	.25 M W SH 122
(11) Mile Point	1.919 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.794
(17) Longitude	-91.367
(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	1996
(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	4
(30) Year of ADT	1987
(109) Truck ADT	1 %
(19) Bypass, Detour Length	2 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	34 ft
(49) Structure Length	72 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	21 ft
(52) Deck Width Out to Out	21 ft
(32) Approach Roadway Width (W/Shoulders)	24 ft
(33) Bridge Median	0-No median
(34) Skew	11 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	99.9 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 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	9-Rural Local
(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	2-County Highway Agency
(22) Owner	2-County Highway Agency
(37) Historical Significance	4-Historical significance is not dete
CONDITION	
(58) Deck	7
(59) Superstructure	7
(60) Substructure	3
(61) Channel & Channel Protection	3
(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	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	6
(68) Deck Geometry	5
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	6
(72) Approach Roadway Alignment	7
(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	0-Inspected feature does not meet cur
(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	5
(115) Year of Future ADT	2007

INSPECTIONS *			
(90) Inspection Date			02/2021
(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.			





Roadway with Log Mile running West to East.

## Maintenance Needs

**Date Reported:** 02/07/2011  
**Priority:** C - Important  
**Type of Work:** N/A  
**Status:** Monitor  
**Component:**

---

### Deficiency Description

Columns and footings at Bent 1.  
Spalling & scaling to bottom.

### Remarks

---



Spalling & scaling to bottom of Columns & footings  
@ Bent 1.

**Date Reported:** 02/15/2013  
**Priority:** C - Important  
**Type of Work:** N/A  
**Status:** Monitor  
**Component:**

---

**Deficiency Description**

Cap @ Bent 2  
Cracks / spalls with rebar exposed.

**Remarks**

---



Cracks / spalls with rebar exposed to cap @ Bent 2.



Cracks / spalls with rebar exposed to cap @ Bent 2.





Bridge #21771 (Routine)  
CR70/Independ. Co. over CARTER CREEK

Location: .25 M W SH 122

Team Lead: Nathan Edwards Inspection Date: February 24, 2021

Date Reported: 02/19/2019

Priority: D- Routine

Type of Work: None

Status: Monitor

Component:

---

### Deficiency Description

Random transverse bolts missing at Spans 1, 2, & 3.

### Remarks

---



Random transverse bolts missing at Spans 1, 2 &  
3.

**Date Reported:** 02/07/2011  
**Priority:** A - Safety deficiency; requires prompt action  
**Type of Work:** Repair  
**Status:** Monitor  
**Component:** Substructure

---

### Deficiency Description

Channel  
Scour 1.5' to 2' below top of footings at Bent 1 exposing bottom of footings.  
Scour and undermining at footing at Columns 2 & 3 @ Bent 2.

### Remarks

---



Scour 1.5' to 2' below top of footings at Bent 1.



Scour and undermining at footings at Column 3 @ Bent 2.





Scour at Columns 2 & 3 footing at Bent 2. Footing is undermined.



Bridge #21771 (Routine)  
CR70/Independ. Co. over CARTER CREEK

Location: .25 M W SH 122

Team Lead: Nathan Edwards Inspection Date: February 24, 2021

### Inspection Comments

Elevation with Log Mile running to the Left.

---

### Deck Notes

1 efflorescent crack to soffit @ Unit 6 @ Abutment 1.

---

### Superstructure Notes

A few minor spalls to units.

Span 1 - Units 2-3, 4-5 has 1 transverse bolt missing.

Span 2 - All units have 1 transverse bolt missing.

---

### Substructure Notes

Spalls /abrasion at bottom of Columns 1 & 2 at Bent 1.

Minor spalls to Abutment 1.

1/4" - 3/8" full height vertical crack to Right side of Abutment 1 at wing wall.

Moderate scaling and spalls to footings at Bent 1.

Spalls with 3' of rebar exposed to bottom of Cap at Bent 2.

Several vertical cracks to Cap at Bent 2.

Scour 1.5' to 2' below top of footings at Bent 1.

Scour at Columns 2 & 3 footing at Bent 2. Footing is undermined.

Span 3 filled with sediment.