



Bridge #X0675(Routine)
State Highway 45 over Creek - Washington Co.

Location: 150 E INT SH 265&45

Team Lead: Eric West Inspection Date: February 10, 2022



Latitude:36.08739, Longitude:-94.12075

Route:45 Section:05 Log:2.96

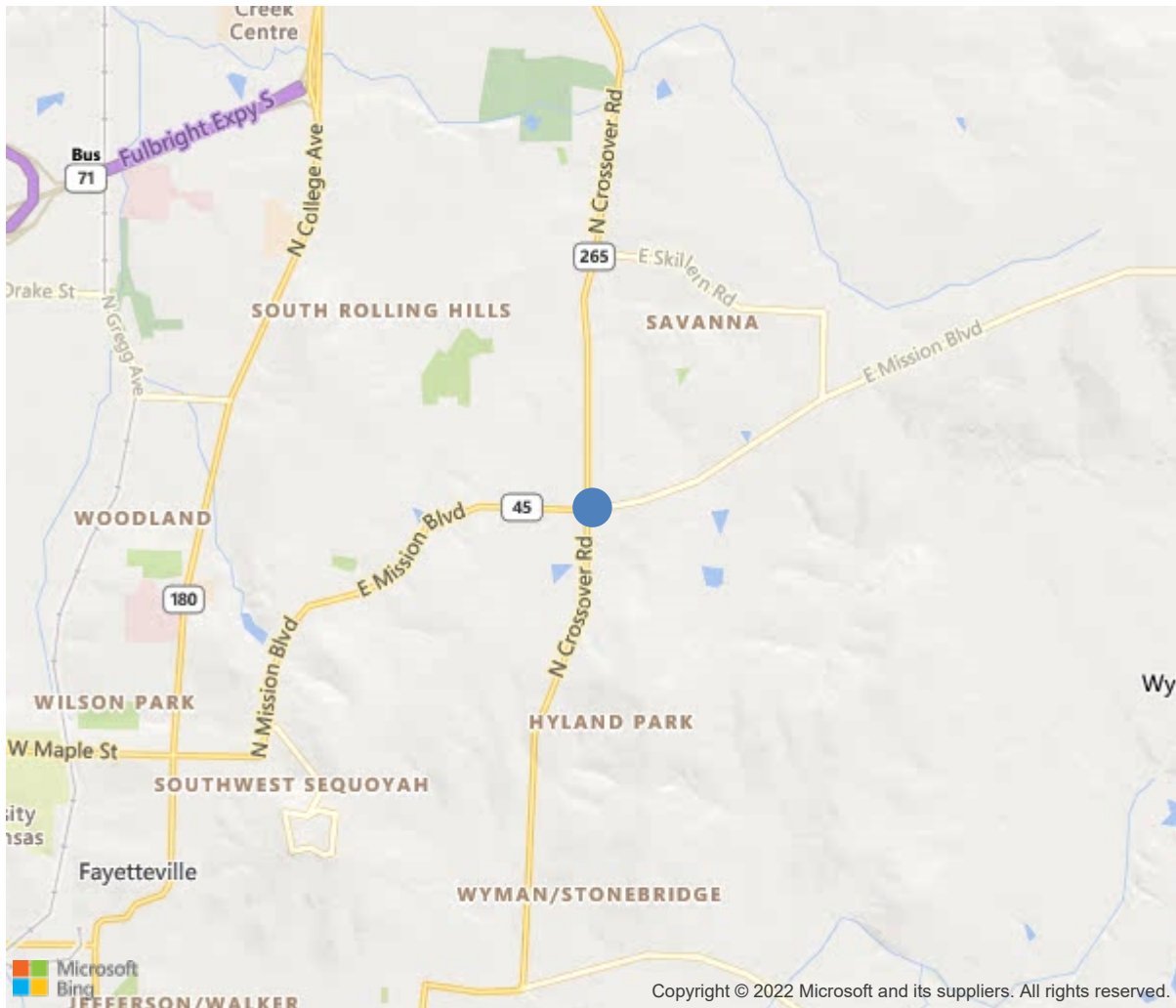
Arnold Road ID:72x45x5xA, Arnold Log mile:2.911

District 04, Washington County

Owner: 1-State Highway Agency

Place Code: 23290 - Fayetteville

150 E INT SH 265&45



36.08739, -94.12075



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	X0675
(5) Inventory Route	45
(2) Highway Agency District	04
(3) County Code	143-Washington County, Arkansas
(4) Place Code	23290
(6) Features Intersected	Creek - Washington Co.
(7) Facility Carried	State Highway 45
(9) Location	150 E INT SH 265&45
(11) Mile Point	2.96 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000045050
(16) Latitude	36.08739
(17) Longitude	-94.12075
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	119
Material	1-Concrete
Type	19-Culvert
(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	N-Not applicable
(108) Wearing Surface/Protective System	
Type of Wearing Surface	N-Not applicable (applies only to structur
Type of Membrane	N-Not applicable (applies only to structur
Type of Deck Protection	N-Not applicable (applies only to structur
AGE AND SERVICE	
(27) Year Built	1987
(106) Year Reconstructed	0
(42) Type of Service	55
On	5-Highway-pedestrian
Under	5-Waterway
(28) Lane	
On	4
Under	0
(29) Average Daily Traffic	10065
(30) Year of ADT	2018
(109) Truck ADT	1 %
GEOMETRIC DATA	
(48) Length of Maximum Span	7.5 ft
(49) Structure Length	22.1 ft
(50) Curb or Sidewalk Width	
Left	4 ft
Right	4 ft
(51) Bridge Roadway Width Curb to Curb	0 ft
(52) Deck Width Out to Out	0 ft
(32) Approach Roadway Width (W/Shoulders)	50.9 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	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	16-Urban Minor Arterial
(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	N
(59) Superstructure	N
(60) Substructure	N
(61) Channel & Channel Protection	8
(62) Culverts	6
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	27
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	3
Rating	16
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	3
(68) Deck Geometry	N
(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	0-Inspected feature does not meet cur
(113) Scour Critical Bridges	8-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	12658
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			02/2022
(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: Eric West, **Inspection Date:** February 10, 2022

[illegible]



Elevation



Elevation



Roadway



Typical driving surface of the culvert.



Barrel #1 typical.



Barrel #1 Rt top slab spalling with exposed reinforcing steel.



Barrel #1 Lt horizontal cracking at the wing wall juncture.

Maintenance Needs

Date Reported: 02/10/2020
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Component: Culverts

Deficiency Description

R.C. Box Culvert-

There is an 8" spall with exposed reinforcing steel visible in the top slab of barrel #1 located approximately 20' from the inlet end of structure adjacent to a construction joint where the structure was widened. Exposed reinforcing steel has up to initial section loss.

Remarks



Barrel #1 - There is an 8" spall with exposed reinforcing steel visible in the top slab of Barrel 1 located approximately 20' from the inlet end of structure adjacent to a construction joint where the structure was widened. Exposed reinforcing steel has up to initial section loss.



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Inspection Comments

Triple R. C. Box Culvert

02/04/2020 - RSM & SPC: Routine Inspection conducted this date. See element notes for documentation. NBIS Condition rating for item "62" lowered from "7" to "6" due to spalling in the top slab with exposed reinforcing steel.