



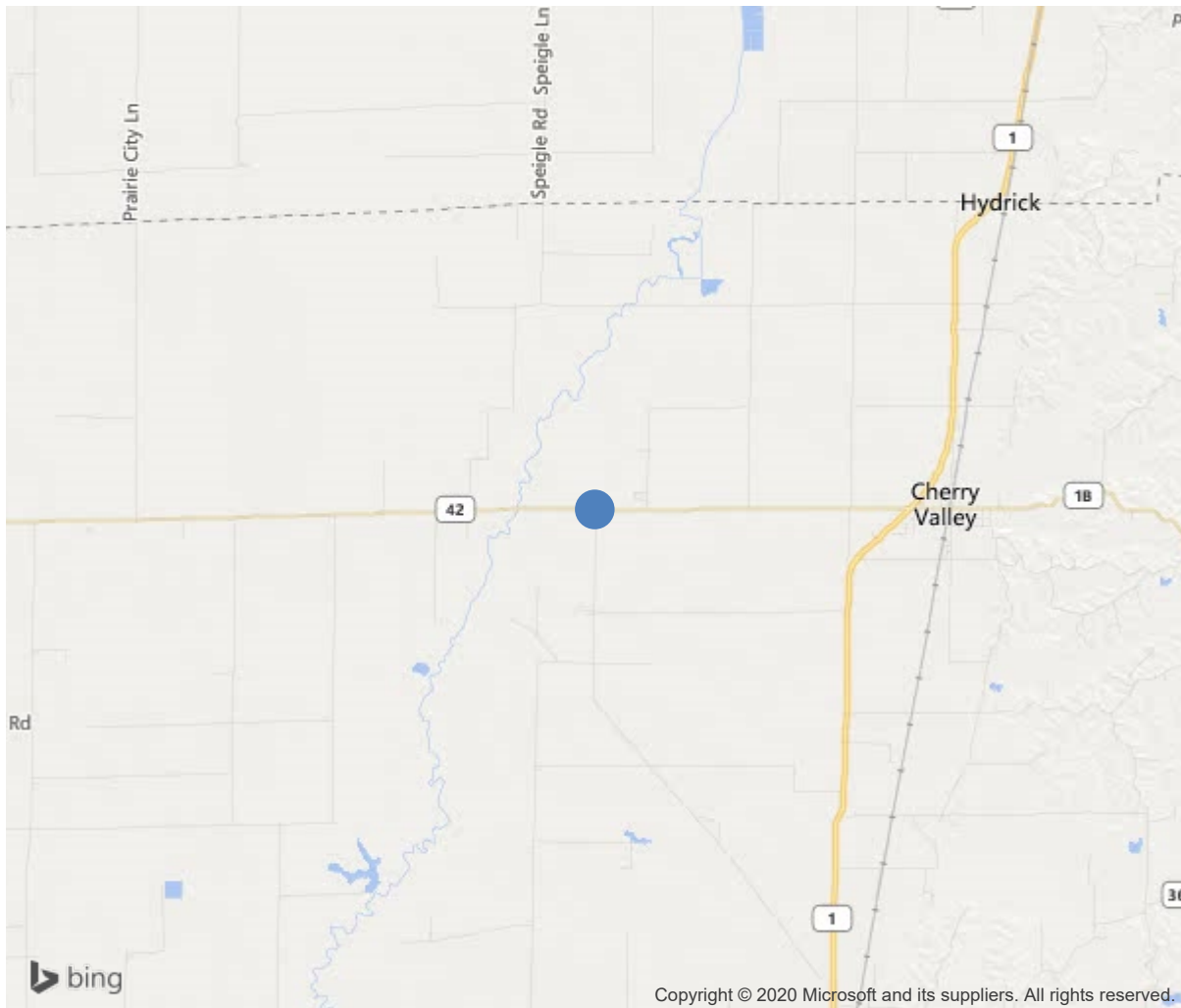
Bridge #M3463(Routine)

Cr-231/Z-E/L-5.44 over Cooper Creek

Location: 3.1 West Of Jct Sh 1 & 42

Team Lead: Drew Melton **Inspection Date:** July 24, 2019

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35.40191, -90.81438



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	M3463
(5) Inventory Route	231
(2) Highway Agency District	01
(3) County Code	37-Cross County, Arkansas
(4) Place Code	0
(6) Features Intersected	Ditch
(7) Facility Carried	Cr-231/Z-E/L-5.44
(9) Location	3.1 West Of Jct Sh 1 & 42
(11) Mile Point	5.44 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.401909
(17) Longitude	-90.814384
(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	3-Open Grating
(108) Wearing Surface/Protective System	
Type of Wearing Surface	9-Other
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1972
(106) Year Reconstructed	1994
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	510
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	124 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	43 ft
(49) Structure Length	75 ft
(50) Curb or Sidewalk Width	
Left	0.3 ft
Right	0.3 ft
(51) Bridge Roadway Width Curb to Curb	22 ft
(52) Deck Width Out to Out	24.7 ft
(32) Approach Roadway Width (W/Shoulders)	27.9 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	23 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	7
(59) Superstructure	7
(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	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	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	5
(36) Traffic Safety Features	0000
A) Bridge Railings	0-Inspected feature does not meet cur
B) Transitions	0-Inspected feature does not meet cur
C) Approach Guardrail	0-Inspected feature does not meet cur
D) 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	Replacement of bridge or other
(76) Length of Structure Improvement	90 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 109
(96) Total Project Cost	\$ 265
(97) Year of Improvement Cost Estimate	1994
(114) Future ADT	55
(115) Year of Future ADT	2033
INSPECTIONS	
(90) Inspection Date	
(91) Frequency	24 Months
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	No 24
B: Underwater Inspection	Yes 0
C: Other Special Inspection	No 0



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
28	Steel Deck Open Grid	SF	1853	1533	300	20	0
1000	Corrosion	SF	278	0	278	0	0
1020	Connection	SF	12	0	12	0	0
7000	Damage	SF	30	0	10	20	0
(28)							
Deck has surface rust full with 15% bare steel. Span #2 has several transverse bars that are loose at center span unit #4. Span #3 unit #4 7 transverse bars missing. Deck has multiple deck panels loose.							
107	Steel Open Girder/Beam	LF	225	3	222	0	0
1000	Corrosion	LF	222	0	222	0	0
515	Steel Protective Coating	SF	2421	0	0	1937	484
3440	Effectiveness (Steel Protective Coatings)	SF	2421	0	0	1937	484
3410	Chalking (Steel Protective Coatings)	SF	0	0	0	0	0
(107)							
Surface rust full length with 20% bare steel little to no section loss at this time.							
161	Steel Pin, Pin and Hanger Assembly	EA	24	0	22	1	1
1000	Corrosion	EA	22	0	22	0	0
1020	Connection	EA	2	0	0	1	1
(161)							
Span #1 left side unit #1,2 has one cotter key missing in pin and pin backing out. Span #1 unit #3 right side is missing both pins.							
216	Timber Abutment	LF	56	56	0	0	0
228	Timber Pile	EA	12	11	0	1	0
1140	Decay/Section Loss	EA	1	0	0	1	0
(228)							
Bent #2 pile #4 has outer shell decay with 15% sect. loss.							
235	Timber Pier Cap	LF	103	103	0	0	0
330	Metal Bridge Railing	LF	150	0	117	0	33
1020	Connection	LF	33	0	0	0	33
1900	Distortion	LF	117	0	117	0	0

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
515	Steel Protective Coating	SF	450	450	0	0	0
(330) Minor dents and dings full length. Guard rail has been knocked loose at abutment #2 last span of bridge both sides.							



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Maintenance Needs



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Inspection Comments

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