



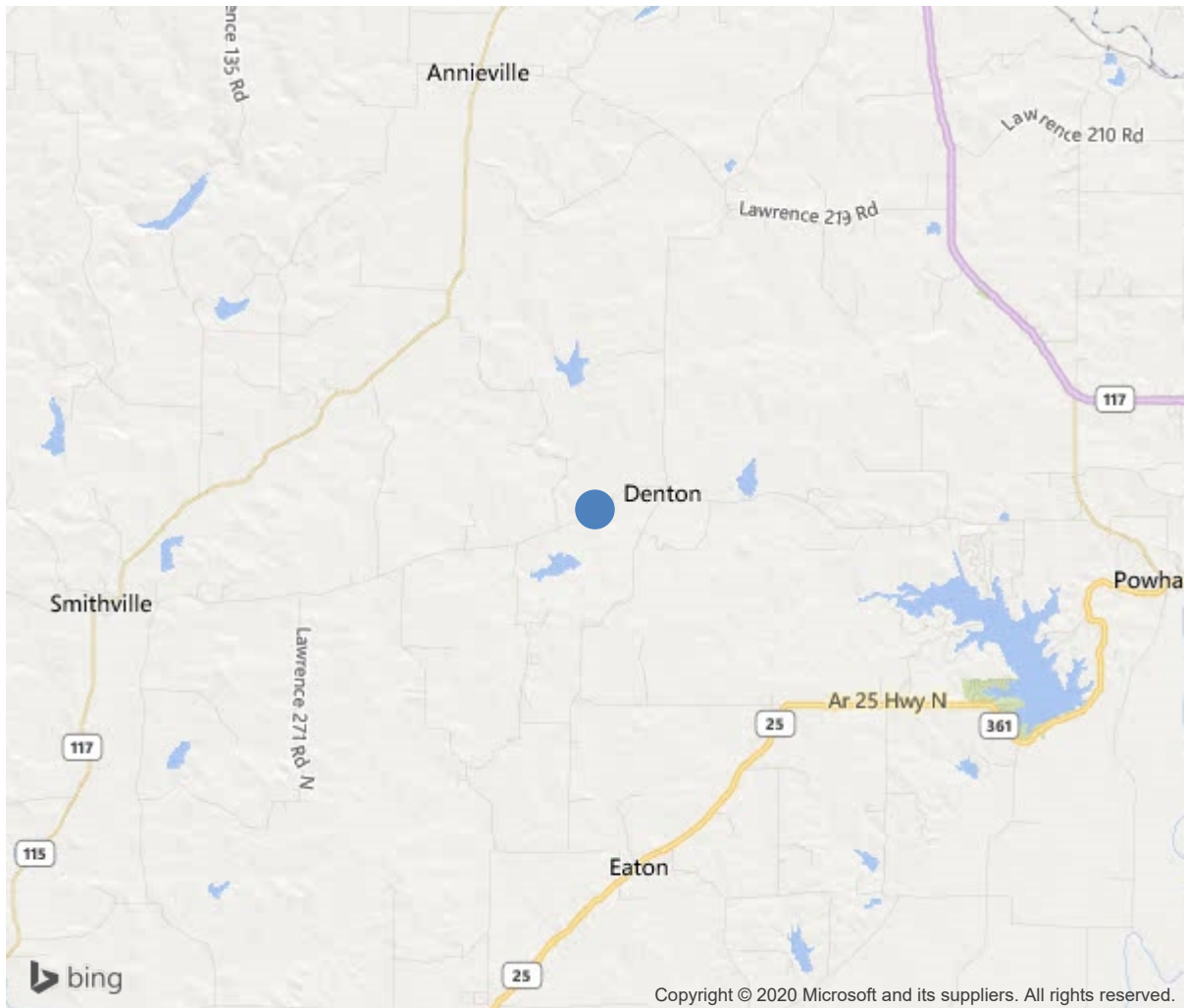
Bridge #05006(Routine)

SH 117-02- LM 4.83 over FLAT CREEK

Location: 4.83 MI E JCT SH 115

Team Lead: Richard Jones **Inspection Date:** May 23, 2018

4.83 MI E JCT SH 115



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36.09228, -91.22032



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	05006
(5) Inventory Route	117
(2) Highway Agency District	10
(3) County Code	75-Lawrence County, Arkansas
(4) Place Code	0
(6) Features Intersected	FLAT CREEK
(7) Facility Carried	SH 117-02- LM 4.83
(9) Location	4.83 MI E JCT SH 115
(11) Mile Point	4.83 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	36.09228
(17) Longitude	-91.22032
(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	6-Bituminous
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	1262
(30) Year of ADT	2018
(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	1.5 ft
Right	1.5 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	29 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	25.3 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	5-None present but re-evaluation
(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	6
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2-M 13.5 / H 15
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	43
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	3
Rating	26
(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	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	9
(72) Approach Roadway Alignment	8
(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	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	937
(115) Year of Future ADT	2028
INSPECTIONS	
(90) Inspection Date	202004
(91) Frequency	24 Months
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	No 24
B: Underwater Inspection	No 0
C: Other Special Inspection	No 0

SUFFICIENCY RATING	70.5
STATUS (SD/FO/None)	Not Deficient



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	1950	1646	169	135	0
1080	Delamination/Spall/Patched Area	SF	35	0	10	25	0
1090	Exposed Rebar	SF	34	0	0	34	0
1120	Efflorescence/Rust Staining	SF	76	0	0	76	0
1130	Cracking (RC and Other)	SF	159	0	159	0	0
510	Wearing Surfaces	SF	1800	1752	0	48	0
3220	Crack (Wearing Surface)	SF	48	0	0	48	0
205	Reinforced Concrete Column	EA	4	2	2	0	0
1090	Exposed Rebar	EA	1	0	1	0	0
1130	Cracking (RC and Other)	EA	1	0	1	0	0
234	Reinforced Concrete Pier Cap	LF	120	112	2	6	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
1090	Exposed Rebar	LF	2	0	0	2	0
1130	Cracking (RC and Other)	LF	4	0	0	4	0
301	Pourable Joint Seal	LF	48	48	0	0	0
330	Metal Bridge Railing	LF	150	150	0	0	0



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Maintenance Needs



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Inspection Comments

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Deck Notes

Approach roadways have settlement. Asphalt wearing surface has longitudinal cracks at all spans, and transverse cracks over joints. Soffit has several cracks, delaminated areas, and spalls with rebar exposed along edges of slabs. Span 2 Rt side - concrete has spalled completely away from 1 rebar for approximately 13'. Exposed rebar has section loss. Span 3 soffit near Rt edge has map cracking with efflorescence.

Substructure Notes

Bents 2 and 3 caps have some deterioration on ends. Ends of caps have efflorescence and/or spalls with rebar exposed. Bent 2 column 1 has a small spall with rebar exposed near ground line. Bent 3 cap on ahead side has a few vertical cracks. Bent 3 column 2 has a vertical crack.