



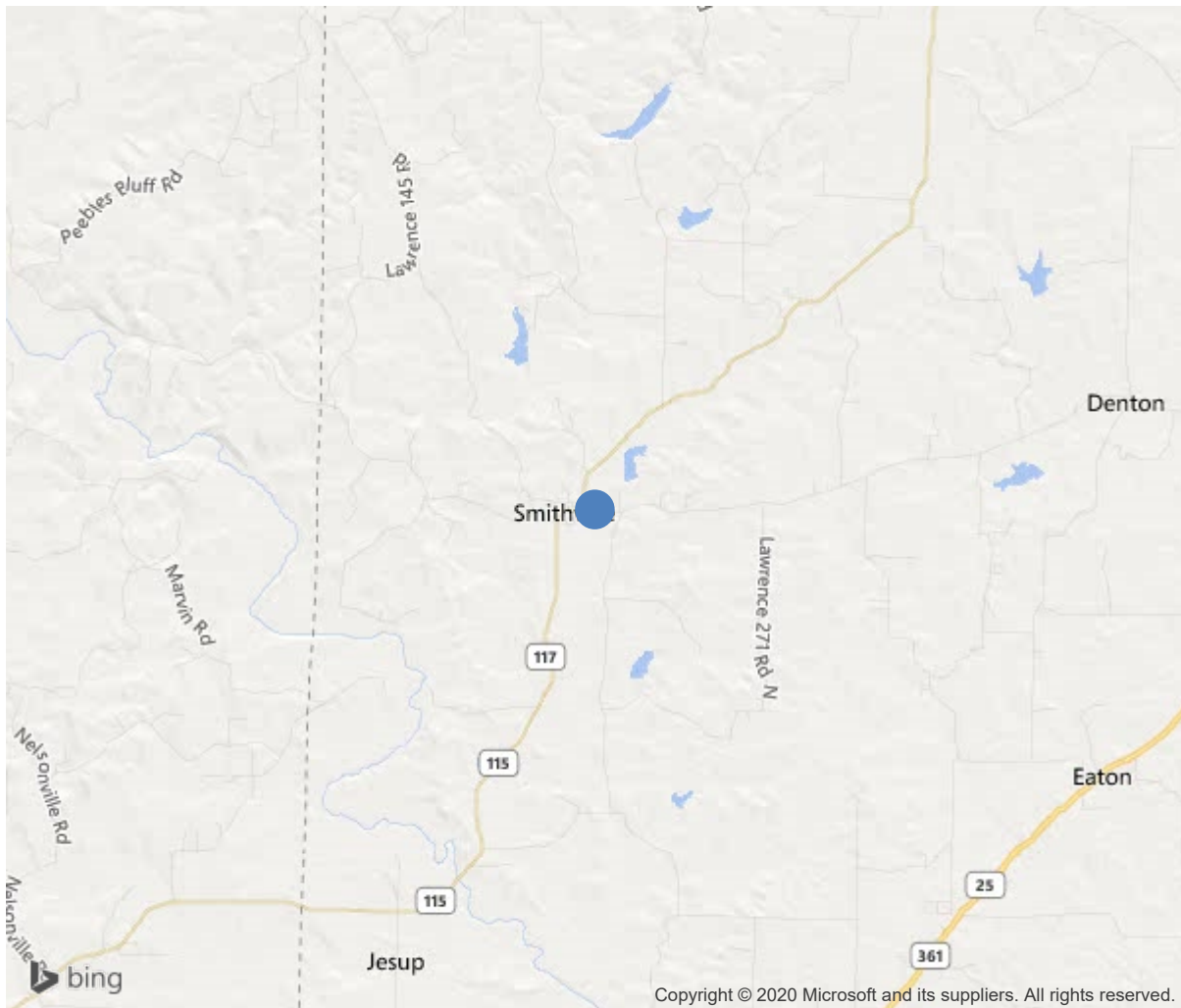
Bridge #05005(Routine)

SH 117-02- LM 0.10 over MACHINE CREEK

Location: 0.10 MI E JCT SH 117 & 11

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

0.10 MI E JCT SH 117 & 11



36.07966, -91.30145



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	05005
(5) Inventory Route	117
(2) Highway Agency District	10
(3) County Code	75-Lawrence County, Arkansas
(4) Place Code	0
(6) Features Intersected	MACHINE CREEK
(7) Facility Carried	SH 117-02- LM 0.10
(9) Location	0.10 MI E JCT SH 117 & 11
(11) Mile Point	0.1 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	36.07966
(17) Longitude	-91.30145
(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	1200
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	12 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	90 ft
(50) Curb or Sidewalk Width	
Left	1.3 ft
Right	1.3 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	25.6 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			7
(59) Superstructure			7
(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			38
(65) Inventory Rating Method		1-Load Factor(LF)	
(66) Inventory Rating			
Type			3
Rating			23
(70) Bridge Posting		3-10.0 - 19.9 % below	
(41) Structure Open/Posted/Closed		P-Posted for load (may include o	
APPRAISAL			
(67) Structural Evaluation			5
(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			775
(115) Year of Future ADT			2028
INSPECTIONS			
(90) Inspection Date			201905
(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	66.3
STATUS (SD/FO/None)	Not Deficient



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	2340	2081	257	2	0
1080	Delamination/Spall/Patched Area	SF	20	0	19	1	0
1090	Exposed Rebar	SF	1	0	0	1	0
1120	Efflorescence/Rust Staining	SF	6	0	6	0	0
1130	Cracking (RC and Other)	SF	232	0	232	0	0
510	Wearing Surfaces	SF	2160	1876	180	104	0
3220	Crack (Wearing Surface)	SF	104	0	0	104	0
3210	Delam/Spall/Patched Area/Pothole	SF	180	0	180	0	0
205	Reinforced Concrete Column	EA	4	2	2	0	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
1130	Cracking (RC and Other)	EA	1	0	1	0	0
234	Reinforced Concrete Pier Cap	LF	120	105	6	9	0
1080	Delamination/Spall/Patched Area	LF	8	0	5	3	0
1090	Exposed Rebar	LF	2	0	0	2	0
1120	Efflorescence/Rust Staining	LF	5	0	1	4	0
301	Pourable Joint Seal	LF	48	48	0	0	0
330	Metal Bridge Railing	LF	180	180	0	0	0



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Maintenance Needs



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Deck Notes

Asphalt wearing surface has transverse cracks over joints.

Gutter lines have a few patched and/or delaminated areas.

Soffit has several small grout patches, cracks, and a few spalls with rebar exposed.

Substructure Notes

Bents 2 and 3 caps have a few spalls with some rebar exposed, and a few cracks with efflorescence.

Bent 3 columns 1 and 2 have cracks near top. Column 1 has a small delaminated area.

Minor embankment erosion under Spans 1 and 3.