



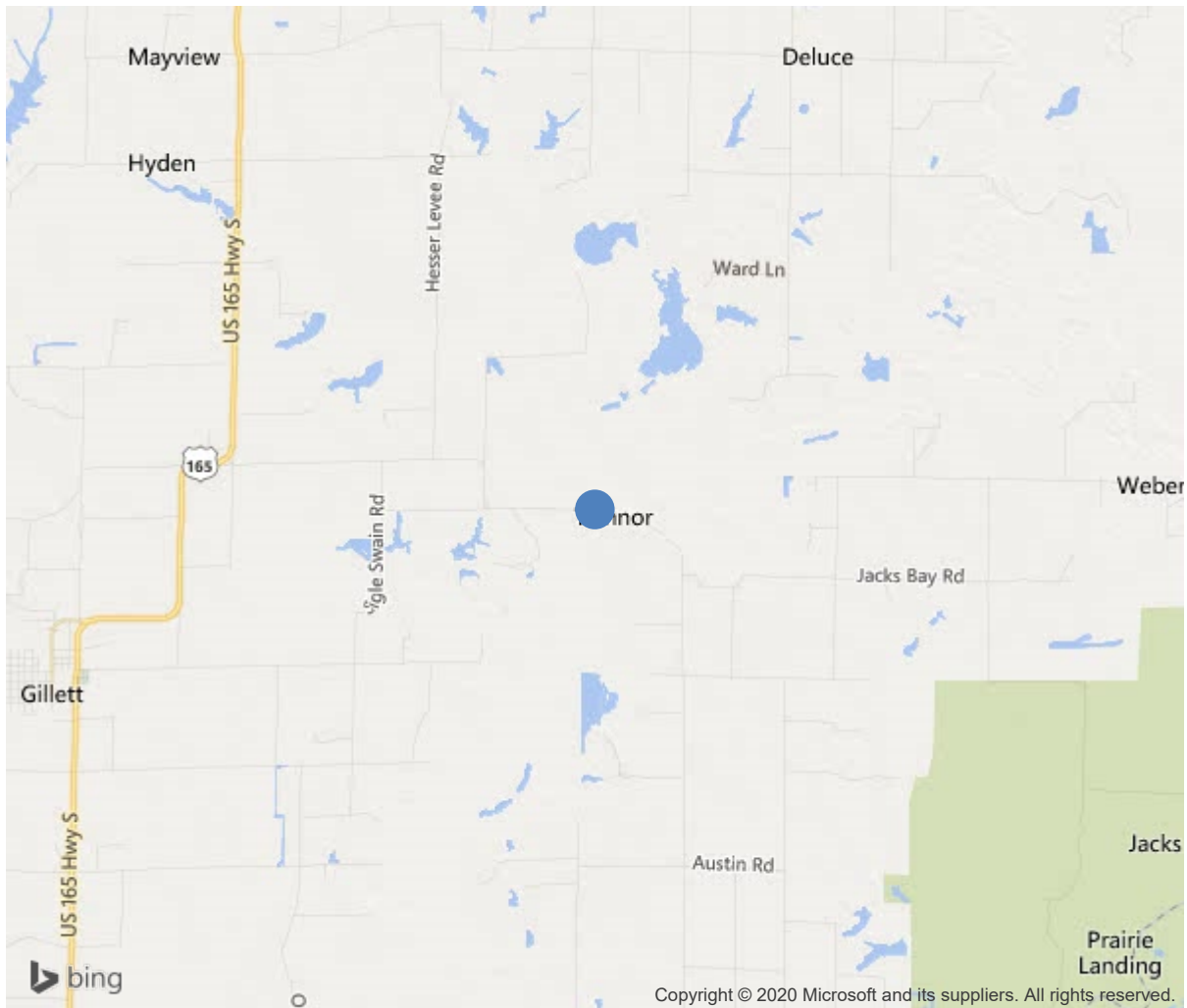
Bridge #03918(Routine)

SH 44-01 LM 4.03 over Cypress Bayou

Location: 4.03 Mi E US 165-Tichnor

Team Lead: Greg Loomis **Inspection Date:** August 28, 2019

4.03 Mi E US 165-Tichnor



34.14302, -91.28111



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03918
(5) Inventory Route	44
(2) Highway Agency District	02
(3) County Code	1-Arkansas County, Arkansas
(4) Place Code	0
(6) Features Intersected	Cypress Bayou
(7) Facility Carried	SH 44-01 LM 4.03
(9) Location	4.03 Mi E US 165-Tichnor
(11) Mile Point	4.03 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.14302
(17) Longitude	-91.28111
(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	10
(46) No. of Approach Spans	0
(107) Deck Structure Type	2-Concrete Precast Panels
(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	1965
(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	890
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	0 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	31 ft
(49) Structure Length	310 ft
(50) Curb or Sidewalk Width	
Left	1 ft
Right	1 ft
(51) Bridge Roadway Width Curb to Curb	27.6 ft
(52) Deck Width Out to Out	29.8 ft
(32) Approach Roadway Width (W/Shoulders)	30.8 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	27.6 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	7
(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	60
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	10
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	5
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(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	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	864
(115) Year of Future ADT	2028
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	No 0
C: Other Special Inspection	No 0

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	8525	8525	0	0	0
510	Wearing Surfaces	SF	8525	6103	2422	0	0
3220	Crack (Wearing Surface)	SF	2422	0	2422	0	0
(16)							
Deck: 27.5' wide (separate curb NOT included) x 310' long = 8525 sqft. Wearing surface: 27.5' wide x 310' long = 8525 sqft. Some minor transverse cracking in asphalt wearing surface along joints of units at bents. Minor longitudinal cracking in asphalt wearing surface along joints between units. Asphalt material is "humped-up" at each bent from repeated filling of joint cracks.							
110	Reinforced Concrete Open Girder/Beam	LF	2480	2342	138	0	0
1080	Delamination/Spall/Patched Area	LF	9	0	9	0	0
1090	Exposed Rebar	LF	5	0	5	0	0
1130	Cracking (RC and Other)	LF	124	0	124	0	0
(110)							
Girders: 8 precast units per span / Spans 1-10 (31' each = 310' total span). Units are bolted transversely and longitudinally except as noted below - no noted missing or loose bolts. NOTE: No longitudinal bolts in units @ Bents 5, 7, & 9 (as-built).							
Very few scattered, minor, shallow spalls (less than 1/2" deep). Some hairline- to minor-sized horizontal cracking along legs of units, near soffit - most noticeable on Spans 1 & 2 Units 4 & 5. (CS2 124') All spans have very small spalls . Most of rebar showing is due steel too close to surface of concrete.							
Span 5 Units 4 & 8 @ Bent 6: Diaphragms have large spalls on bottom.							
215	Reinforced Concrete Abutment	LF	80	46	32	2	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	8	0	6	2	0
6000	Scour	LF	25	0	25	0	0
(215)							
Abutments: 31' each (with 4.5' wings each corner) / Bents 1 & 11. Bent 1: Delamination under Unit 6 / a couple areas of minor horizontal cracking near top corner / settlement/scouring of slope material, exposing 2 pile. Bent 11: Minor horizontal cracking near top corner at center-line / settlement of slope material has been lightly addressed (applying soil cement - 1 pile still exposed).							
227	Reinforced Concrete Pile	EA	39	15	24	0	0
1190	Abrasion/Wear (PSC/RC)	EA	24	0	24	0	0
(227)							
Piling: 2 per bent (exposed due to settlement/scour) / Bent 1; 4 per bent / Bents 2-10; 1 per bent (exposed due to settlement/scour) / Bent 11.							

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
Bents 3-8: Pile have initial abrasive wear from water.							
234	Reinforced Concrete Pier Cap	LF	270	246	12	12	0
1080	Delamination/Spall/Patched Area	LF	6	0	6	0	0
1090	Exposed Rebar	LF	18	0	6	12	0
(234)							
Caps: 30' each / Bents 2-10. A few minor spalls with some cracks on front or back face of caps at bearing points. A few scattered areas of shallow delaminations and spalling with small amounts of rebar exposed with light rust, especially Bent 3 bottom right side (CS3 rebar exposed 3') and Bent 9 back face between Piles 2 & 3 (CS2 spalling 3'). Bent 3 & 4: Some contact spalls along top edge.							
330	Metal Bridge Railing	LF	620	580	40	0	0
1000	Corrosion	LF	40	0	40	0	0
515	Steel Protective Coating	SF	1550	0	1450	100	0
3440	Effectiveness (Steel Protective Coatings)	SF	410	0	310	100	0
3410	Chalking (Steel Protective Coatings)	SF	1140	0	1140	0	0
(330)							
Railing: 310' each side. Coating: 2.5 square feet/linear feet of railing. Metal railing on concrete posts. A few scattered areas of light surface rust - coating is dull and has no luster.							



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Maintenance Needs



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Inspection Comments

Bridge is logged from west to east.