



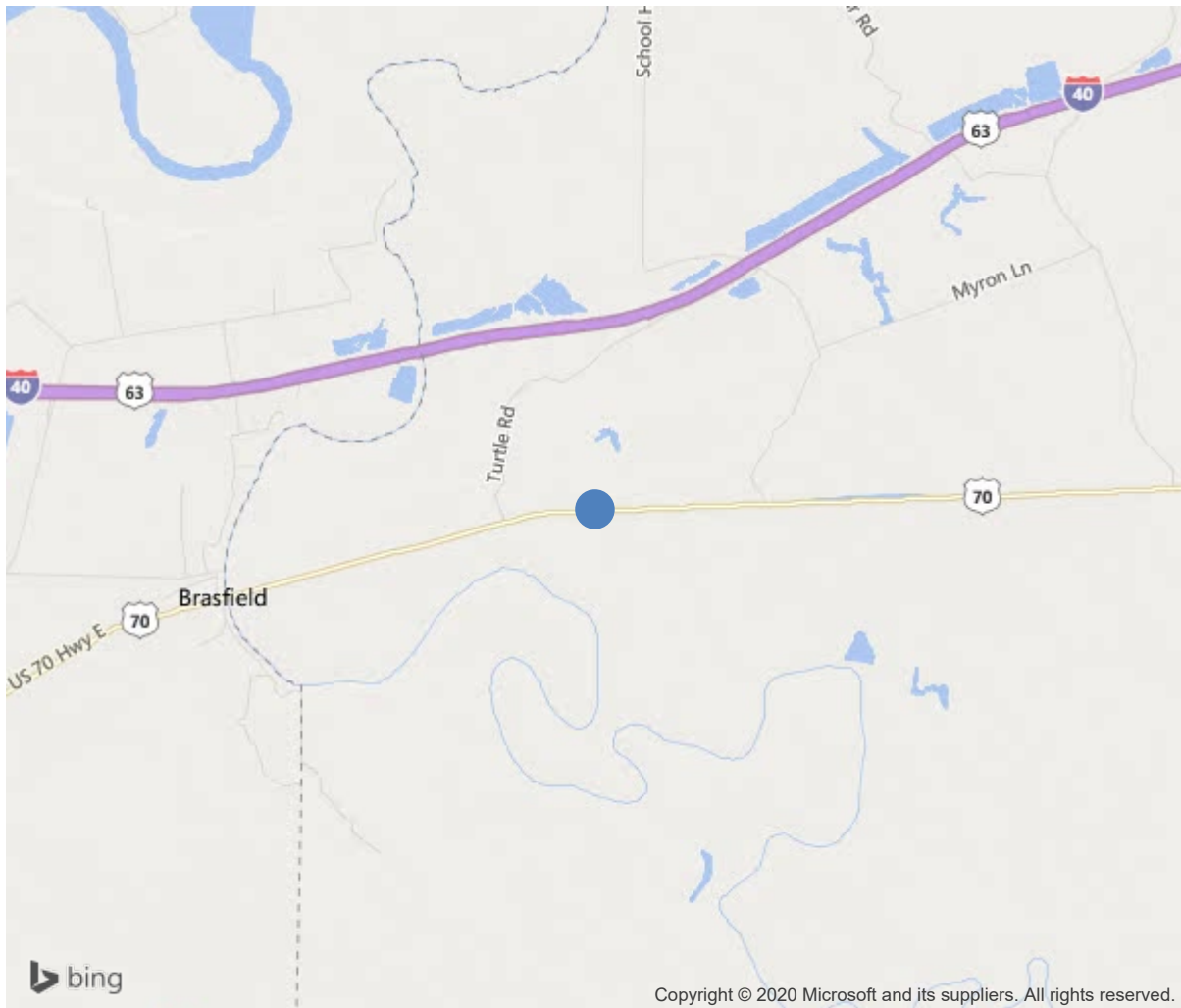
Bridge #01105(Routine)

Us-70/Sec-17/L1.88 over Cross Pond

Location: 1.88 Mi E Of Prairie Co

Team Lead: Drew Melton **Inspection Date:** October 29, 2018

1.88 Mi E Of Prairie Co



34.83732, -91.34488



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	01105
(5) Inventory Route	70
(2) Highway Agency District	01
(3) County Code	95-Monroe County, Arkansas
(4) Place Code	0
(6) Features Intersected	Cross Pond
(7) Facility Carried	Us-70/Sec-17/L1.88
(9) Location	1.88 Mi E Of Prairie Co
(11) Mile Point	1.88 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.837318
(17) Longitude	-91.344879
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	14
Material	1-Concrete
Type	4-Tee beam
(44) Approach Structure Type	00
Material	0-Other
Type	0-Other
(45) No. of Spans in Main Unit	15
(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	1930
(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	1100
(30) Year of ADT	2014
(109) Truck ADT	19 %
(19) Bypass, Detour Length	4 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	34 ft
(49) Structure Length	511 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	26.9 ft
(52) Deck Width Out to Out	30 ft
(32) Approach Roadway Width (W/Shoulders)	36.1 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	27.9 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	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	1-The inventory route is part of the
(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	6
(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	44
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	15
Rating	27
(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	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	1167
(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	15330	15150	60	120	0
1080	Delamination/Spall/Patched Area	SF	40	0	40	0	0
1090	Exposed Rebar	SF	20	0	0	20	0
1120	Efflorescence/Rust Staining	SF	120	0	20	100	0
510	Wearing Surfaces	SF	13797	13397	400	0	0
3220	Crack (Wearing Surface)	SF	400	0	400	0	0
(16)							
Curbs have areas of deterioration both sides. Soffit all spans have open transverse cracks with light efflorescence and rust staining. Soffit spans #1,3,4,11,14 each have small areas of delamination and spilling with exposed rebar. Soffit overhangs at joints and drains have spalls and delaminations. Wearing surface has cracks in each span.							
110	Reinforced Concrete Open Girder/Beam	LF	2555	2544	2	9	0
1080	Delamination/Spall/Patched Area	LF	1	0	0	1	0
1090	Exposed Rebar	LF	8	0	0	8	0
1130	Cracking (RC and Other)	LF	2	0	2	0	0
(110)							
Span #3 girder #3 at bent #3 has a one foot spall with exposed rebar. Span #4 girder #1 at bent #5 has a one foot crack on bottom of girder. Span #5 girder #1 at bent #5 has a one foot crack on bottom of girder. Span #7 girder #3 at bent #7 has a one foot spall on web with exposed rebar. Span #8 girder #1 at bent #9 has a one foot spall with exposed rebar. Span #12 girder #1 at bent #13 has a one foot spall with exposed rebar. Span #12 girder #3 at bent #13 has a one foot crack and delamination on bottom. Span #11 girder #1 at bent #11 has a one foot spall on bottom with exposed rebar. Span #15 girder #5 at bent #15 has a one foot spall on bottom with exposed rebar. All girders have hairline vertical cracks on sides. Several diaphragms have areas of deterioration.							
215	Reinforced Concrete Abutment	LF	64	3	51	10	0
1120	Efflorescence/Rust Staining	LF	10	0	0	10	0
6000	Scour	LF	51	0	51	0	0
(215)							
Abutment back walls have vertical and horizontal cracks with light efflorescence. Abutment #1 cap is spalled on left end with exposed rebar. Abutment #2 cap is undermined eight inches exposing all piles. Abutment #1 cap is undermined one to two feet exposing all piles.							
227	Reinforced Concrete Pile	EA	80	77	3	0	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1130 (227)	Cracking (RC and Other)	EA	2	0	2	0	0
Bent #3 piles #1,5 are cracked at top. Bent #13 pile #3 is delaminated at top.							
234	Reinforced Concrete Pier Cap	LF	357	320	0	37	0
1080	Delamination/Spall/Patched Area	LF	1	0	0	1	0
1090	Exposed Rebar	LF	36	0	0	36	0
(234)							
Bent #3 cap is spalled on bottom with exposed rebar. Bent #5 cap is spalled on back face with exposed rebar. Bent #7 cap is spalled on bottom left end with exposed rebar. Bent #8 cap is spalled on bottom with exposed rebar. Bent #9 cap is spalled on bottom with exposed rebar. Bent #11 cap is spalled on back face with exposed rebar. Bent #12 cap is spalled on bottom right end one foot with exposed rebar. Bent #13 cap is spalled on bottom with exposed rebar. Bent #15 cap is spalled on bottom right end with six inches of exposed rebar. Bent #16 cap is spalled on bottom left end with three feet of exposed rebar.							
311	Movable Bearing	EA	35	35	0	0	0
331	Reinforced Concrete Bridge Railing	LF	1022	1018	0	4	0
1090	Exposed Rebar	LF	4	0	0	4	0
(331)							
Span #2 right side top of rail has two spalls with exposed rebar.							



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Maintenance Needs



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Inspection Comments

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Substructure Notes