



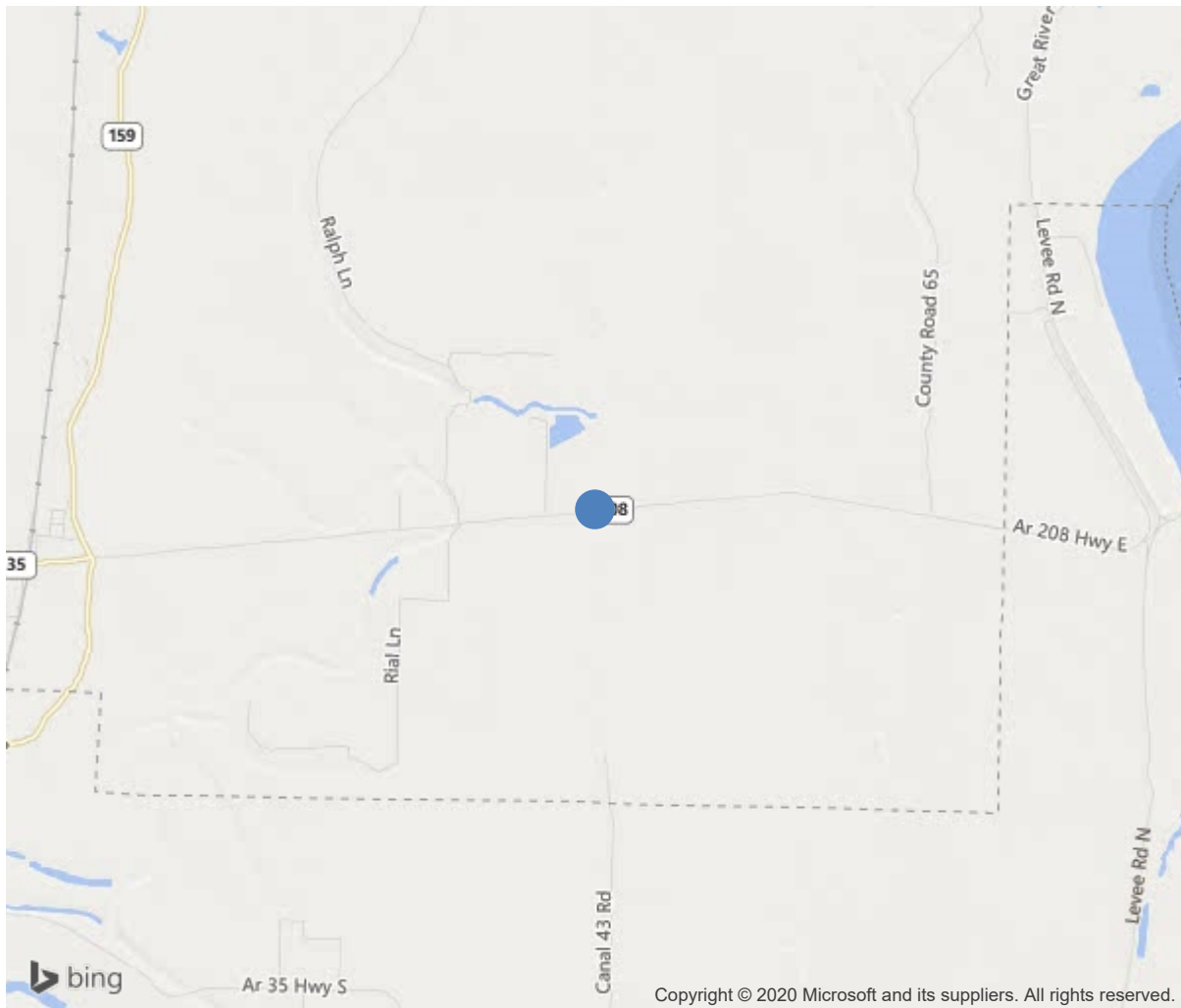
Bridge #05139(Routine)

SH 35-10 LM 4.04 over Canal 43

Location: 2.56 Mi E SH159-Halley

Team Lead: Sharon Hooks **Inspection Date:** August 19, 2019

2.56 Mi E SH159-Halley



33.53919, -91.28076



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	05139
(5) Inventory Route	35
(2) Highway Agency District	02
(3) County Code	41-Desha County, Arkansas
(4) Place Code	0
(6) Features Intersected	Canal 43
(7) Facility Carried	SH 35-10 LM 4.04
(9) Location	2.56 Mi E SH159-Halley
(11) Mile Point	4.042 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.539194
(17) Longitude	-91.28076
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3-Steel
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	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	1969
(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	240
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	20 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	60 ft
(49) Structure Length	182 ft
(50) Curb or Sidewalk Width	
Left	1 ft
Right	1 ft
(51) Bridge Roadway Width Curb to Curb	27.9 ft
(52) Deck Width Out to Out	31 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	28.9 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	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			7
(61) Channel & Channel Protection			6
(62) Culverts			N
LOAD RATING AND POSTING			
(31) Design Load		4-M 18 / H 20	
(63) Operating Rating Method			1
(64) Operating Rating			
Type		1-Load Factor(LF)	
Rating			52
(65) Inventory Rating Method		1-Load Factor(LF)	
(66) Inventory Rating			
Type			3
Rating			31
(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			6
(69) Clearances, Vertical/Horizontal			N
(71) Waterway Adequacy			8
(72) Approach Roadway Alignment			8
(36) Traffic Safety Features			1001
A) Bridge Railings		1-Inspected feature meets currently a	
B) Transitions		0-Inspected feature does not meet cur	
C) Approach Guardrail		0-Inspected feature does not meet cur	
D) Approach Guardrail Ends		1-Inspected feature meets currently a	
(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			196
(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
12	Reinforced Concrete Deck	SF	5642	5582	0	60	0
1080	Delamination/Spall/Patched Area	SF	60	0	0	60	0
510	Wearing Surfaces	SF	4914	4764	150	0	0
3210	Delam/Spall/Patched Area/Pothole	SF	150	0	150	0	0
(12)							
Deck: 31' wide x 182' long. Wearing surface: Asphalt overlay covering joints has cracked/deteriorated and has spalled and potholed up (4-6" wide). Span 3 right: Shallow spalling/scaling in gutterline from mid-span to Bent 4 (4' x 15').							
107	Steel Open Girder/Beam	LF	900	670	225	5	0
1000	Corrosion	LF	230	0	225	5	0
515	Steel Protective Coating	SF	6147	615	0	3995	1537
3440	Effectiveness (Steel Protective Coatings)	SF	5532	0	0	3995	1537
(107)							
Girders: 5 per span / 180' total span. Coating: 6.83 square feet per linear feet of girder.							
Paint on girders has weathered, deteriorated, and worn thin over 90% of surface - rust is beginning to show through paint on most of girders with approximately 25% having light surface rust (no section loss).							
215	Reinforced Concrete Abutment	LF	80	79	1	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
(215)							
Abutments: 40' each / Bents 1 & 4. Bent 4: Small spall and crack.							
227	Reinforced Concrete Pile	EA	10	10	0	0	0
(227)							
Pile: 5 per bent / Bents 2-3.							
234	Reinforced Concrete Pier Cap	LF	56	55	1	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
(234)							
Caps: 28' each / Bents 2-3. Bent 3: Spall on bottom left corner.							
302	Compression Joint Seal	LF	112	0	0	84	28
2330	Seal Damage	LF	112	0	0	84	28
(302)							

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
Joints: 28' each / Bents 1-4. All preformed joint material is cracked, tattered, and torn - with some leaking. Road irons have corroded and are covered with flaking rust - heavy section loss. Bent 3 joint seals is missing . Asphalt wearing surface covering joints has cracked/deteriorated and has spalled and potholed up - joints and potholes are filled with dirt, sand, and other debris.							
311	Movable Bearing	EA	15	0	15	0	0
1000	Corrosion	EA	15	0	15	0	0
(311)							
Movable bearings: 5 per bent / Bent 3; 10 per bent / Bent 2. Rust is beginning to show through paint on bearings with some light scattered surface rust.							
313	Fixed Bearing	EA	15	0	15	0	0
1000	Corrosion	EA	15	0	15	0	0
(313)							
Fixed bearings: 5 per bent / Bents 1, 3, & 4. Rust is beginning to show through paint on bearings with some light scattered surface rust.							
330	Metal Bridge Railing	LF	364	364	0	0	0
515	Steel Protective Coating	SF	1165	1165	0	0	0
(330)							
Railing: 182' each side. Coating: 3.2 square feet per linear feet of railing.							



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Maintenance Needs



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Inspection Comments

Beginning of structure toward SH 65 .Halley, Wast End.

03-05-2008, Dropping UW inspection due to sub-str. elements are not continuously submerged. RLW.

Due to updated info this bridge is no longer recommended for load posting. See memo attached to this report. SDH 7/27/15. Changed inspection frequency to 24 month due to bridge no longer recommended for posting.

Load Rating

Layout Dwg# 13853