

# Bridge Inspection Report

**01823**  
**US 79C-11 LM 0.13**  
**over**  
**King Bayou Ditch**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

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Inspector:

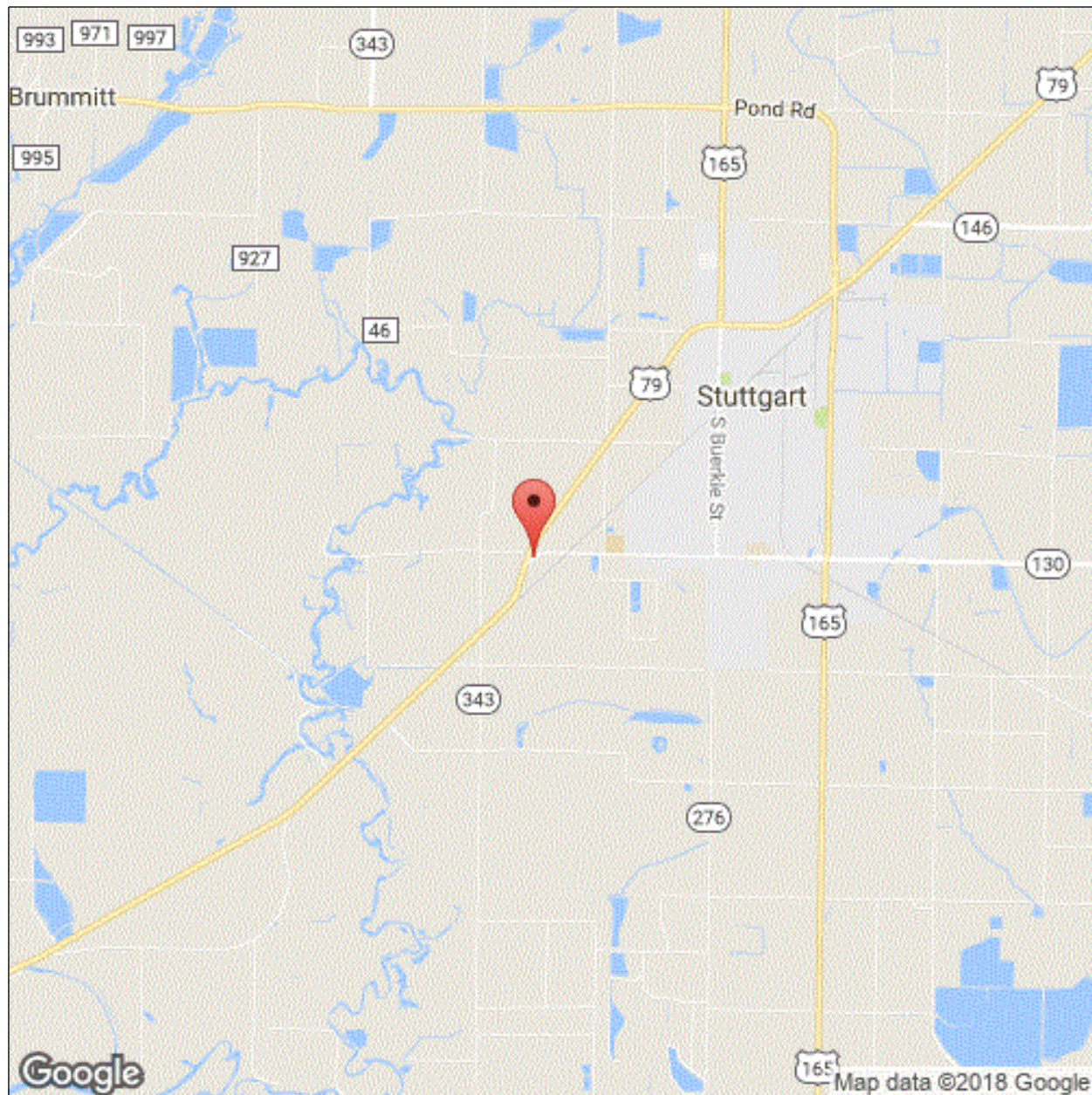
Structure Number: 01823

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Facility Carried: US 79C-11 LM 0.13

## Bridge Inspection Report

### Location Map



Latitude: 34.47943

Longitude: -91.58717



Inspector:

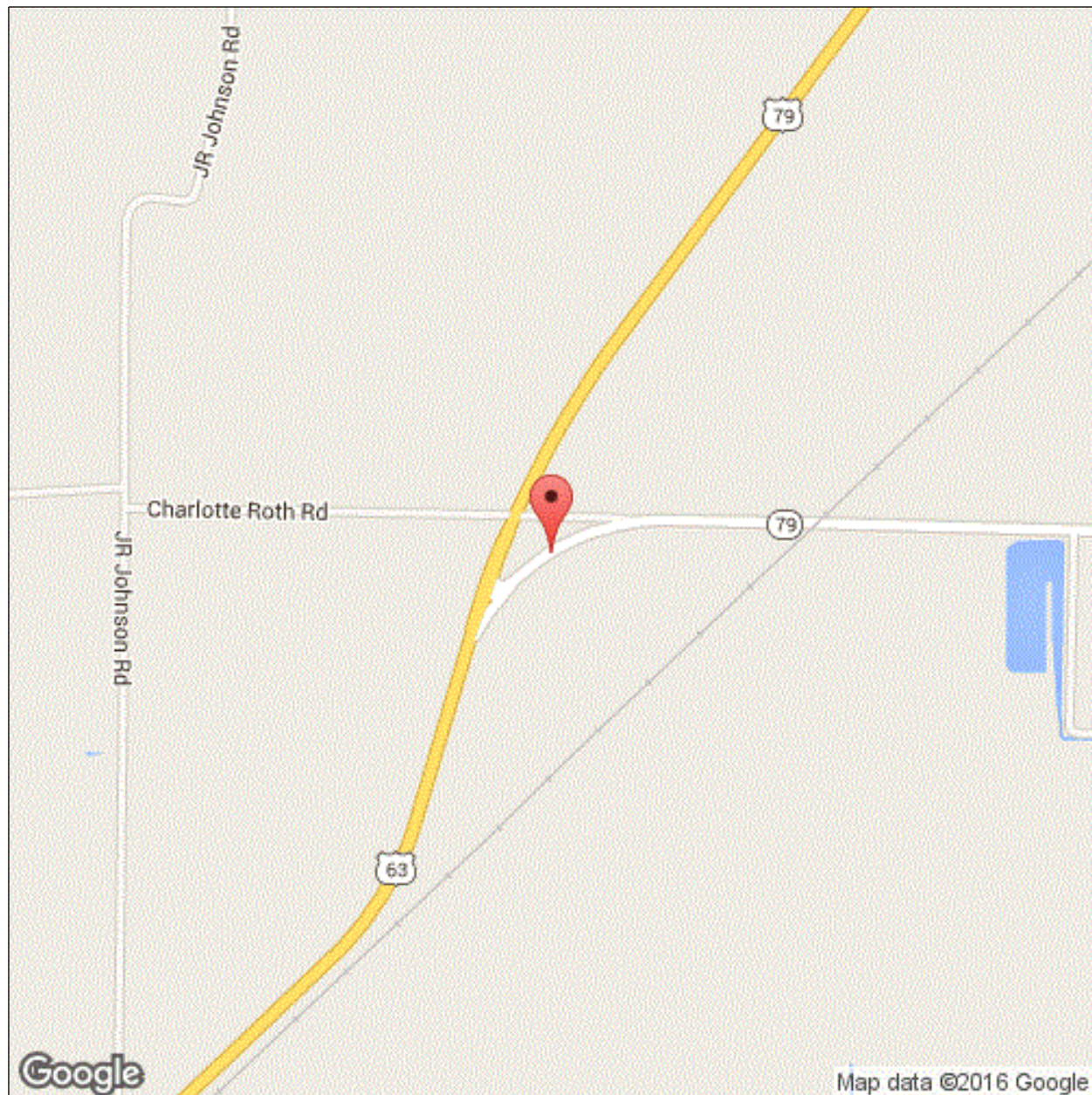
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## Bridge Inspection Report

### Location Map



Latitude: 34.47943

Longitude: -91.58717

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## Bridge Inspection Report

### Executive Summary

Bridge is logged from west to east.

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## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	03/07/2018
(8) STRUCTURE NUMBER	01823	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 6 79 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	02 (3) COUNTY CODE 001	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	King Bayou Ditch	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 79C-11 LM 0.13		
(9) LOCATION	@ US 79-Stuttgart		
(11) MILEPOINT 0.130	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	000007911C (13B) SUBROUTE NUMBER 00		
(16) LATITUDE	34.47943 (17) LONGITUDE -91.58717		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	6
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE	6 (60) SUBSTRUCTURE 7
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION	7 (62) CULVERT N
(44) STRUCTURE TYPE, APPROACH SPANS			
A) KIND OF MATERIAL/DESIGN: 0 - Other			
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN	3 (46) NUMBER OF APPROACH	0	
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE	1	
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION	0	
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1934 (106) YEAR RECONSTRUCTED	0000	
(42) TYPE OF SERVICE	ON 1 UNDER 5		
(28) LANES	ON 02 UNDER 00		
(29) AVERAGE DAILY TRAFFIC	3200 (19) BYPASS DETOUR LENGTH	3	
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014		
(109) AVERAGE DAILY TRUCK TRAFFIC	1		
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	30 (49) STRUCTURE LENGTH (ft.)	73	
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0.5 RIGHT 0.5		
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	26.9		
(52) DECK WIDTH, OUT-TO-OUT (ft.)	28.7		
(32) APPROACH ROADWAY WIDTH (ft.)	29.9		
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	30	
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	99.99	
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	28.2		
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99		
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0		
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9		
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0		
PROPOSED IMPROVEMENTS		STATUS	
(75A) TYPE OF WORK PROPOSED	31 (75B) WORK DONE BY	1	
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	98.0		
(94) BRIDGE IMPROVEMENT COST (\$)	0		
(95) ROADWAY IMPROVEMENT COST (\$)	235		
(96) TOTAL PROJECT COST	500		
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2002		
(114) FUTURE ADT	3406 (115) YEAR OF FUTURE ADT	2028	
		CLASSIFICATION	
		(112) NBIS BRIDGE LENGTH	Y
		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
		(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
		(100) STRAHNET HIGHWAY DESIGNATION	0
		(101) PARALLEL STRUCTURE DESIGNATION	N
		(102) DIRECTION OF TRAFFIC	2
		(103) TEMP STRUCTURE	
		(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	1
		(20) TOLL	3
		(21) MAINTENANCE RESPONSIBILITY	01
		(22) OWNER	01
		(37) HISTORICAL	5
		NAVIGATION DATA	
		(38) NAVIGATION CONTROL	0
		(111) PIER OR ABUTMENT PROTECTION	5
		(39) NAV VERT CLEARANCE (ft.)	0
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
		(40) NAV HORIZONTAL CLEARANCE (ft.)	0

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## Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	2095	sq. ft.	0	1715	380	0
	Deck: 28.7' wide x 73' long. Unsealed moderate-sized transverse cracks every 4-6'. Surface of deck is weather- and traffic-worn throughout with aggregate plainly showing and mortar worn away. Soffit: Small scattered delaminated and spalled areas with some steel exposed, mainly at bents and under transverse cracks.						
1080 - Delamination/Spall/Patched Area		150			150		
1090 - Exposed Rebar		150				150	
1130 - Cracking (RC and Other)		380			150	230	
1190 - Abrasion/Wear (PSC/RC)		1415			1415		
107 - Steel Open Girder/Beam	1- Ben.	420	ft.	292	56	72	0
	Girders: 6 per span \ 70' total. Coating: 5.5 square feet per linear feet of girder.  All spans with scattered rust on girders with paint flaking & peeling. Span 2 Girder 6 @ Bent 3: Some corrosion with significant section loss on right side of bottom flange.  Span 1 at Bent 1: Diaphragms in Bays 2 & 3 are cracking at top left corners. Bents 2-4 most diaphragms have significant corrosion with sections loss/holes rusted through in many places.  NOTE: Repaired by "T" splicing at Span 1 Girders 1 & 6 @ Bent 1, Span 1 Girders 2-5 @ Bent 2, Span 2 Girders 2, 4, & 5 @ Bent 2, Span 3 Girders 3-5 @ Bent 3, and Span 3 Girders 2-6 @ Bent 4.						
1000 - Corrosion		124			52	72	
1010 - Cracking		4			4		
515 - Steel Protective Coating		2310	sq. ft.	0	1628	682	0
3410 - Chalking (Steel Protective Coatings)		1148			1148		
3420 - Peeling/Bubbling/Cracking (Steel Protective Coatings)		480			480		
3440 - Effectiveness (Steel Protective Coatings)		682				682	
215 - Reinforced Concrete Abutment	1- Ben.	84	ft.	84			
	Abutments: 42' each \ Bents 1 and 4.						
227 - Reinforced Concrete Pile	1- Ben.	8	each	8			
	Piling: 4 per bent \ Bents 2 and 3.						
234 - Reinforced Concrete Pier Cap	1- Ben.	60	ft.	45	15	0	0
	Caps: 30' each \ Bents 2 and 3. Bent 2 bottom of cap with light spalling right side with steel exposed.  Bent 3 bottom of cap exposed rebar that has been patched.						
1090 - Exposed Rebar		15			15		

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## Element Inspection

311 - Movable Bearing	1- Ben.	12	each	0	0	12	0
Bearings: 6 per bent. Coating: 1 square feet each.  Bearings have been cleaned and repainted.							
1000 - Corrosion		12				12	
515 - Steel Protective Coating		12	sq. ft.	0	0	0	12
3440 - Effectiveness (Steel Protective Coatings)		12					12
313 - Fixed Bearing	1- Ben.	24	each	12	0	12	0
Bearings: 6 per bent. Coating: 1 square feet each.  Bearings have been cleaned and repainted.							
1000 - Corrosion		12				12	
515 - Steel Protective Coating		24	sq. ft.	0	0	0	24
3440 - Effectiveness (Steel Protective Coatings)		24					24
331 - Reinforced Concrete Bridge Railing	1- Ben.	146	ft.	146			
Bridge railing: 73' each side.							



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Pictures

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## Bridge Inspection Report

Sketches

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 03/08/2016

Priority: G - General/ Preventive maintenance

Work Code: N/A

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#### Deficiency Description:

Deck, Unsealed moderate-sized transverse cracks every 4-6'.

Soffit: Small scattered delaminated and spalled areas with some steel exposed, mainly at bents and under transverse cracks.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Assigned



PHOTO 1      Description      Deck - Span 1 right (cracking)

Stage: Assigned



PHOTO 2      Description      Deck - Span 2 (cracking)

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 03/08/2016

Priority: D - Routine

Work Code: N/A

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#### Deficiency Description:

Approach roadway - Bents 1 & 4: Asphalt wearing surface is deteriorating and cracking with some minor settlement.

03-07-2018 GGL-KLR: Priority changed to "D" from "G".

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Open



PHOTO 1      Description      Approach roadway - Bent 1  
(deterioration)

Stage: Open



PHOTO 2      Description      Approach roadway - Bent 4  
(deterioration)



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### Maintenance Needs

Stage: Monitor



PHOTO 3    Description    Bent 1 - Approach Roadway:  
Deterioration/settlement

Stage: Monitor



PHOTO 4    Description    Bent 4 - Approach Roadway:  
Deterioration