

# Bridge Inspection Report

**A0731**  
**US 79-10 LM 4.28**  
**over**  
**Bradley Slough**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

Inspector:

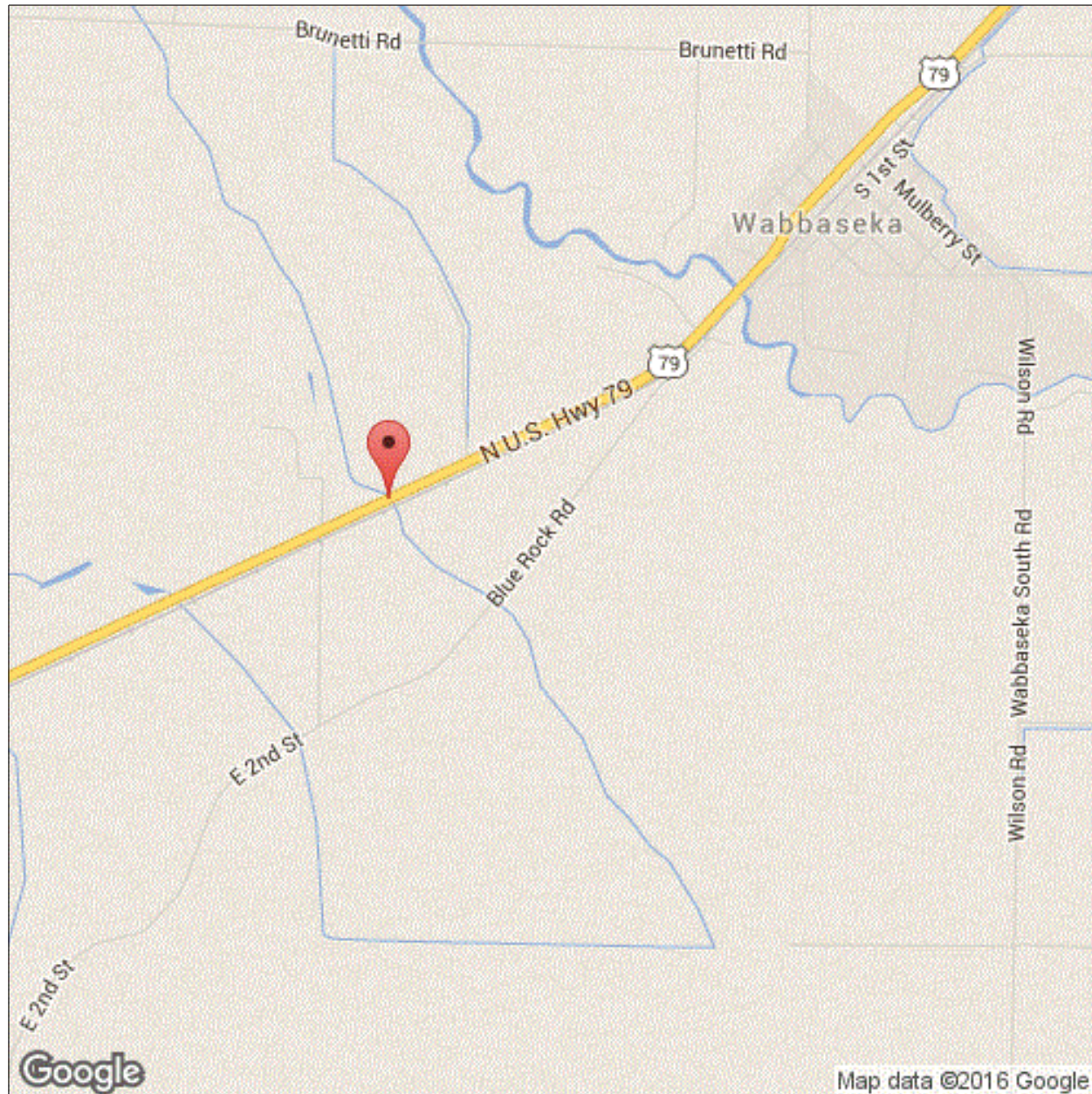
Structure Number: A0731

Inspection Date:

Facility Carried: US 79-10 LM 4.28

## Bridge Inspection Report

### Location Map



Latitude: 34.35199758995697

Longitude: -91.81291322933305



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## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	01/03/2018
(8) STRUCTURE NUMBER	A0731	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 79 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	02 (3) COUNTY CODE 069	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Bradley Slough	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 79-10 LM 4.28	CONDITION	
(9) LOCATION	1.0 Mi SW of Wabbaseka	(58) DECK	7
(11) MILEPOINT 4.280	(12) BASE HIGHWAY NETWORK 1	(59) SUPERSTRUCTURE	7 (60) SUBSTRUCTURE 7
(13A) LRS INVENTORY ROUTE	0000079100 (13B) SUBROUTE NUMBER 00	(61) CHANNEL & CHANNEL PROTECTION	7 (62) CULVERT N
(16) LATITUDE 34.35199758995697	(17) LONGITUDE -91.81291322933305	LOAD RATING AND POSTING	
(98A) BORDER BRIDGE CODE		(31) DESIGN LOAD	5
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT	(63) METHOD USED TO DETERMINE OPERATING RATING	1
STRUCTURE TYPE AND MATERIAL		(64) OPERATING RATING	52.0
(43) STRUCTURE TYPE, MAIN		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
A) KIND OF MATERIAL/DESIGN:	1 - Concrete	(66) INVENTORY RATING	31.0
B) TYPE OF DESIGN/CONSTR:	01 - Slab	(70) BRIDGE POSTING	5
(44) STRUCTURE TYPE, APPROACH SPANS		(41) STRUCTURE OPEN/POSTED/CLOSED	A
A) KIND OF MATERIAL/DESIGN:	0 - Other	APPRAISAL	
B) TYPE OF DESIGN/CONSTR:	00 - Other	(67) STRUCTURAL EVALUATION	7
(45) NUMBER OF SPANS IN MAIN	3 (46) NUMBER OF APPROACH	(68) DECK GEOMETRY	4
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION	(71) WATERWAY ADEQUACY	8
AGE OF SERVICE		(72) APPROACH ROADWAY ALIGNMENT	8
(27) YEAR BUILT	1961 (106) YEAR RECONSTRUCTED	(36) TRAFFIC SAFETY FEATURE	
(42) TYPE OF SERVICE	ON 1 UNDER 5	36A) BRIDGE RAILINGS:	0
(28) LANES	ON 02 UNDER 00	36B) TRANSITIONS:	0
(29) AVERAGE DAILY TRAFFIC	3500 (19) BYPASS DETOUR LENGTH	36C) APPROACH GUARDRAIL:	0
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	36D) APPROACH GUARDRAIL ENDS:	1
(109) AVERAGE DAILY TRUCK TRAFFIC	1	(113) SCOUR CRITICAL BRIDGES	5
GEOMETRIC DATA		SUFFICIENCY RATING	0 STATUS 76.4
(48) LENGTH OF MAX SPAN (ft.)	25 (49) STRUCTURE LENGTH (ft.)	75	
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 1.5 RIGHT 1.5		
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	27.9		
(52) DECK WIDTH, OUT-TO-OUT (ft.)	31.5		
(32) APPROACH ROADWAY WIDTH (ft.)	34.1		
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)		0
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)		99.99
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	27.9		
(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			
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY		
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0		
(94) BRIDGE IMPROVEMENT COST (\$)	0		
(95) ROADWAY IMPROVEMENT COST (\$)	0		
(96) TOTAL PROJECT COST	0		
(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(114) FUTURE ADT	4434 (115) YEAR OF FUTURE ADT		2028
		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
<b>38 - Reinforced Concrete Slab</b>	1- Ben.	2362	sq. ft.	541	19	1802	0
	Deck: 31.5' wide x 75' long. Some abrasive wearing from traffic covering most all of travel lanes. Unsealed moderate-sized longitudinal cracking at or near centerline with some minor reflective cracking with some light efflorescence and rust staining on soffit. A few scattered unsealed minor- to moderate-sized diagonal cracks and some light, scattered minor-sized map cracking.  Soffit: Some minor delaminations and very minor spalls with some steel exposed, especially around drains.						
1080 - Delamination/Spall/Patched Area		4			4		
1090 - Exposed Rebar		2				2	
1120 - Efflorescence/Rust Staining		15			15		
1130 - Cracking (RC and Other)		1440				1440	
1190 - Abrasion/Wear (PSC/RC)		360				360	
<b>215 - Reinforced Concrete Abutment</b>	1- Ben.	84	ft.	84	0	0	0
	Abutments: 42' each / Bents 1 & 4.						
<b>227 - Reinforced Concrete Pile</b>	1- Ben.	10	each	10			
	Piling: 5 per bent / Bents 2 & 3.						
<b>234 - Reinforced Concrete Pier Cap</b>	1- Ben.	60	ft.	59	1	0	0
	Caps: 30' each / Bents 2 & 3. Bent 2 - right end: Shallow spall on bottom corner of end of cap with small amount of steel exposed.						
1090 - Exposed Rebar		1			1		
<b>301 - Pourable Joint Seal</b>	1- Ben.	56	ft.	20	0	34	2
	Joints: 28' each / Bents 2-3. Bent 2: No pourable joint seal in place. Joint is impacted with dirt and debris. Small spall along edge, just left of centerline. Bent 3: Some spalling along left ahead side of joint (6') with some of pourable joint seal missing in same area (2'). 1-2' section of pourable joint seal missing along centerline.						
2330 - Seal Damage		2					2
2350 - Debris Impaction		28				28	
2360 - Adjacent Deck or Header		6				6	
<b>330 - Metal Bridge Railing</b>	1- Ben.	150	ft.	150			
	Railing: 75' each side. Coating: 2.5 square feet per linear feet of railing. Metal railing on concrete posts.						
515 - Steel Protective Coating		375	sq. ft.	375			

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### Pictures



No asphalt overlay on the bridge deck



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### Bridge Inspection Report

#### Maintenance Needs

**Date Reported:** 12/16/2011 12:00:00 AM

**Priority:** D - Routine

**Work Code:** N/A

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**Deficiency Description:**

Joint – Bent 2: No pourable joint seal in place. Joint is filled with dirt and debris.  
Small spall along edge, just left of centerline.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 12/16/2011 12:00:00 AM

Priority: C - Important

Work Code: N/A

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#### Deficiency Description:

Joint – Bent 3: Some spalling along left ahead side of joint (6') with some of pourable joint seal missing in same area (2'). 1-2' section of pourable joint seal missing along centerline.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Monitor



PHOTO 1 Description

**Inspector:**

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### Bridge Inspection Report

## Maintenance Needs

**Date Reported:** 12/16/2013 12:00:00 AM

**Priority:** D - Routine

**Work Code:** N/A

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### Deficiency Description:

Deck – all spans: Unsealed, minor- to moderate-sized longitudinal cracking at or near centerline with some minor reflective cracking with some light efflorescence and rust staining on soffit.

A few scattered unsealed minor- to moderate-sized diagonal cracks and some light, scattered minor-sized map cracking.

### Work Description:

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**Date Repairs Completed:**

**Maintenance Comments:**

---



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### Maintenance Needs

Date Reported: 01/03/2018

Priority: C - Important

Work Code: N/A

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#### Deficiency Description:

Approach railing - Bent 1 right: Impact damage to one or two posts (one post is no longer bolted to rail).

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Open



PHOTO 1      Description      Approach roadway - Bent 1 Right:  
Damage

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### Maintenance Needs

Date Reported: 12/16/2013 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code: N/A

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#### Deficiency Description:

Channel – Span 2: Beaver dam across channel under bridge.

#### Work Description:

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#### Date Repairs Completed:

#### Maintenance Comments:

Jefferson: Remove

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#### Stage: Monitor



PHOTO 1      Description      Span 2 left side beaver dam

#### Stage: Assigned



PHOTO 2      Description      Channel - Span 2: Beaver Dam