

# Bridge Inspection Report

**05277**

**US 165-05 LM 1.30**

**over**

**Arkansas River Relief**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**



Inspector:

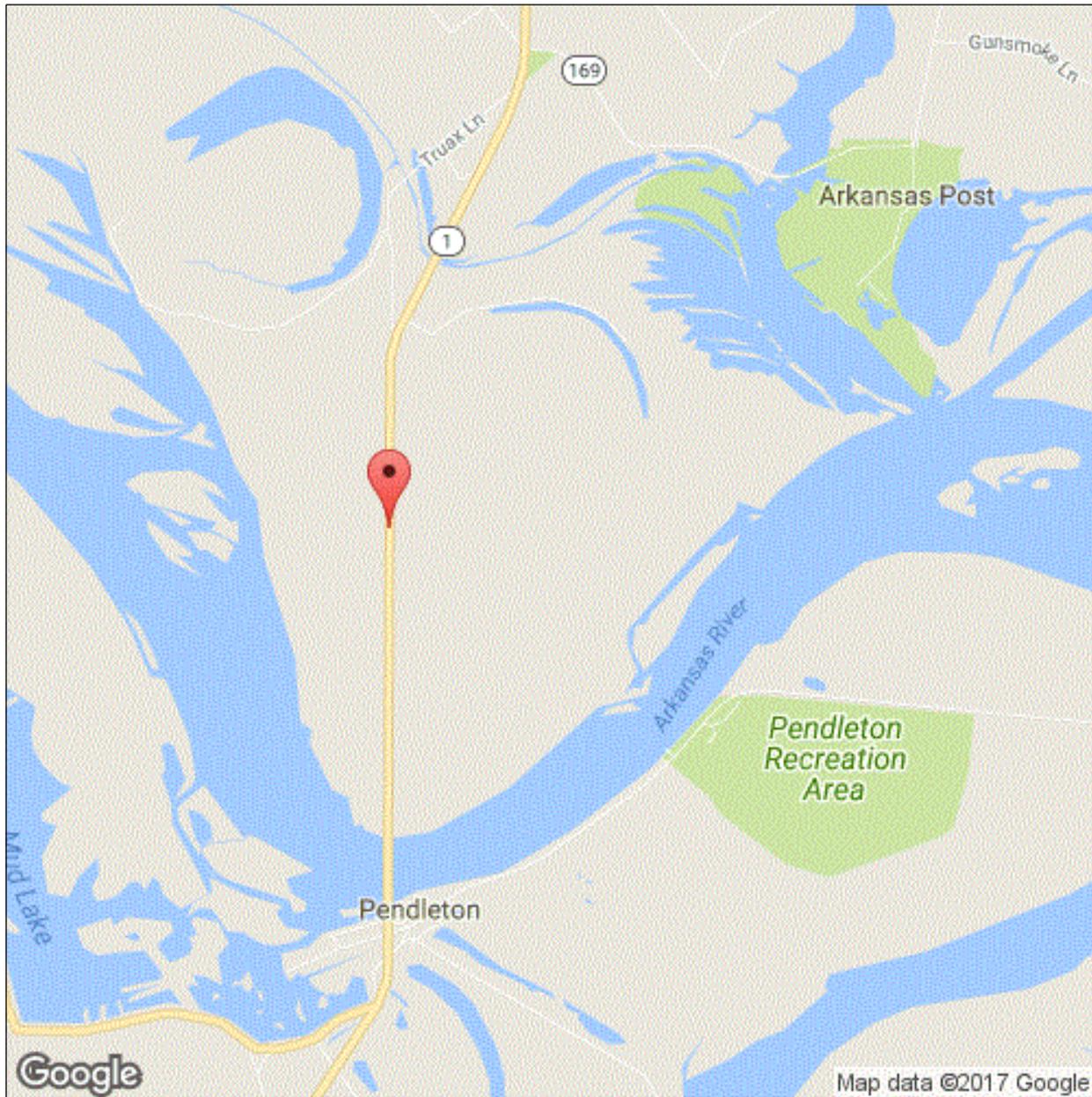
Structure Number: 05277

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### Bridge Inspection Report

### Location Map



Latitude: 34.00197

Longitude: -91.38447

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National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	09/18/2017
(8) STRUCTURE NUMBER	05277	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 165 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	Arkansas River Relief	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 165-05 LM 1.30	CONDITION	
(9) LOCATION	1.30 Mi N AR Riv-Pendletn	(58) DECK	7
(11) MILEPOINT 1.300	(12) BASE HIGHWAY NETWORK 1	(59) SUPERSTRUCTURE	8 (60) SUBSTRUCTURE 8
(13A) LRS INVENTORY ROUTE	0000165050 (13B) SUBROUTE NUMBER 00	(61) CHANNEL & CHANNEL PROTECTION	8 (62) CULVERT N
(16) LATITUDE 34.00197	(17) LONGITUDE -91.38447	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	60.0
(43) STRUCTURE TYPE, MAIN		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
A) KIND OF MATERIAL/DESIGN:	4 - Steel continuous	(66) INVENTORY RATING	36.0
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder	(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	8
(45) NUMBER OF SPANS IN MAIN	8 (46) NUMBER OF APPROACH	0	
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE	(68) DECK GEOMETRY	7
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION	0	
AGE OF SERVICE		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(27) YEAR BUILT	1983 (106) YEAR RECONSTRUCTED	0	
(42) TYPE OF SERVICE	ON 1 UNDER 9	(71) WATERWAY ADEQUACY	8
(28) LANES	ON 02 UNDER 00	(72) APPROACH ROADWAY ALIGNMENT	8
(29) AVERAGE DAILY TRAFFIC	1600 (19) BYPASS DETOUR LENGTH	(36) TRAFFIC SAFETY FEATURE	
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	36A) BRIDGE RAILINGS:	1
(109) AVERAGE DAILY TRUCK TRAFFIC	1	36B) TRANSITIONS:	0
GEOMETRIC DATA		36C) APPROACH GUARDRAIL:	0
(48) LENGTH OF MAX SPAN (ft.)	65 (49) STRUCTURE LENGTH (ft.)	36D) APPROACH GUARDRAIL ENDS:	1
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0 RIGHT 0	(113) SCOUR CRITICAL BRIDGES	5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	40.0	SUFFICIENCY RATING	0 STATUS 79.1
(52) DECK WIDTH, OUT-TO-OUT (ft.)	43	CLASSIFICATION	
(32) APPROACH ROADWAY WIDTH (ft.)	40.0	(112) NBIS BRIDGE LENGTH	Y
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	0	
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	41.3	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	(100) STRAHNET HIGHWAY DESIGNATION	0
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	(101) PARALLEL STRUCTURE DESIGNATION	N
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(102) DIRECTION OF TRAFFIC	2
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	(103) TEMP STRUCTURE	
PROPOSED IMPROVEMENTS		(105) FEDERAL LANDS HIGHWAYS	0
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(110) DESIGNATED NATIONAL NETWORK	1
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0	(20) TOLL	3
(94) BRIDGE IMPROVEMENT COST (\$)	0	(21) MAINTENANCE RESPONSIBILITY	01
(95) ROADWAY IMPROVEMENT COST (\$)	0	(37) HISTORICAL	5
(96) TOTAL PROJECT COST	0	NAVIGATION DATA	
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(38) NAVIGATION CONTROL	0
(114) FUTURE ADT	1703 (115) YEAR OF FUTURE ADT	2028	
		(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.	20725	sq. ft.	9157	11568	0	0
<p>Deck: 43' wide x 482' long.            A few scattered hairline-sized transverse cracks.            Hairline- to minor-sized longitudinal cracks, mainly in travel lanes along Girders 2-5.            Both left and right driving lanes covered in light wear.</p> <p>Soffit: Efflorescence showing under construction joints on each side of bents (at zero-moment points).</p>							
1130 - Cracking (RC and Other)		1928			1928		
1190 - Abrasion/Wear (PSC/RC)		9640			9640		
107 - Steel Open Girder/Beam	1- Ben.	2880	ft.	2880			
<p>Girders: 6 per span / 480' total span.            Coating: 7.3 square feet/linear feet of girder.</p>							
515 - Steel Protective Coating		21024	sq. ft.	21024			
215 - Reinforced Concrete Abutment	1- Ben.	106	ft.	105	1	0	0
<p>Abutments: 52' each / Bents 1 &amp; 9.            Bent 9 left: Some efflorescence showing on face of backwall between Girders 2 &amp; 3.</p>							
1120 - Efflorescence/Rust Staining		1			1		
227 - Reinforced Concrete Pile	1- Ben.	54	each	54			
<p>Piling: 8 per bent / Bents 2-4 &amp; 6-8; 6 per bent / Bent 5.</p>							
234 - Reinforced Concrete Pier Cap	1- Ben.	285	ft.	285			
<p>Caps: 41' each / Bents 2-4 &amp; 6-8; 39' each / Bent 5..</p>							
300 - Strip Seal Expansion Joint	1- Ben.	120	ft.	112	2	6	0
<p>Joints: 40' each / Bents 1, 5, &amp; 9.            Bent 1 right side: Some minor cracking on backwall and very minor spalling along edge of road iron just right of centerline. (2' CS2)            Bent 9: Some impact damage to road-iron on backwall side about 3-4' right of centerline - top of backwall is chipped and cracked in this location. (6' CS3)</p>							
2360 - Adjacent Deck or Header		8			2	6	
7000 - Damage					0		
310 - Elastomeric Bearing	1- Ben.	60	each	60			
<p>Bearings: 6 per bent / Bents 1-4, 5 back, 5 ahead, 6-9.</p>							
331 - Reinforced Concrete Bridge Railing	1- Ben.	964	ft.	964			
<p>Railing: 482' each side.</p>							

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Maintenance Needs

Date Reported: 09/18/2017

Priority: D - Routine

Work Code: N/A

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Deficiency Description:

Approach roadway - Bent 1 right and left: Some deterioration/cracking of asphalt with some minor settlement in outer wheel ruts (1"-1.5" settlement), causing slight bump going onto/off bridge.

NOTE: Right side outer rut has been recently patched but settlement exists across entire abutment. Settlement is possibly caused by animal burrows behind abutment and digging out fill material.

Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Monitor



PHOTO 1 Description Approach roadway - Bent 1. Settlement.