

Bridge Inspection Report

05277

US 165-05 LM 1.30

over

Arkansas River Relief



Inspection Date:

Inspected By:

Inspection Type(s):



Inspector:

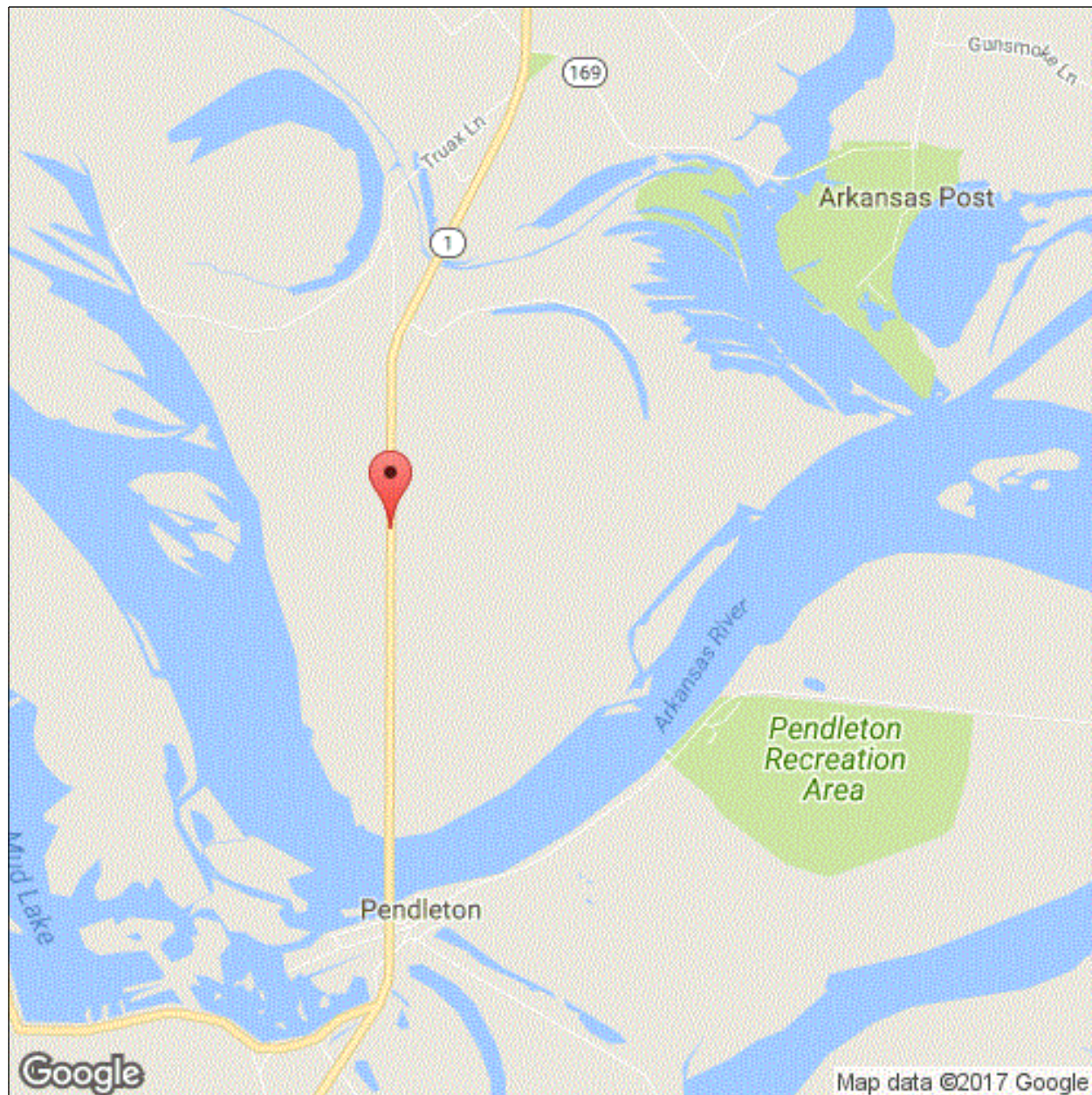
Structure Number: 05277

Inspection Date:

Facility Carried: US 165-05 LM 1.30

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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		
(9) LOCATION	1.30 Mi N AR Riv-Pendletn		
(11) MILEPOINT 1.300	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000165050 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE	34.00197 (17) LONGITUDE -91.38447		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	7
A) KIND OF MATERIAL/DESIGN:	4 - Steel continuous	(59) SUPERSTRUCTURE	8 (60) SUBSTRUCTURE 8
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder	(61) CHANNEL & CHANNEL PROTECTION	8 (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	8 (46) NUMBER OF APPROACH		
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE		
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1983 (106) YEAR RECONSTRUCTED	(31) DESIGN LOAD	5
(42) TYPE OF SERVICE	ON 1 UNDER 9	(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES	ON 02 UNDER 00	(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC	1600 (19) BYPASS DETOUR LENGTH	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(66) INVENTORY RATING	36.0
(109) AVERAGE DAILY TRUCK TRAFFIC	1	(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	65 (49) STRUCTURE LENGTH (ft.)	(67) STRUCTURAL EVALUATION	8
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0 RIGHT 0	(68) DECK GEOMETRY	7
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	40.0	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	43	(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.)	40.0	(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	36A) BRIDGE RAILINGS:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	41.3	36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(113) SCOUR CRITICAL BRIDGES	5
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	SUFFICIENCY RATING	0 STATUS 79.1
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT	1703 (115) YEAR OF FUTURE ADT	(103) TEMP STRUCTURE	
	2028	(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	1
		(20) TOLL	3
		(21) MAINTENANCE RESPONSIBILITY	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.	20725	sq. ft.	9157	11568	0	0
	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. Soffit: Efflorescence showing under construction joints on each side of bents (at zero-moment points).						
1130 - Cracking (RC and Other)		1928			1928		
1190 - Abrasion/Wear (PSC/RC)		9640			9640		
107 - Steel Open Girder/Beam	1- Ben.	2880	ft.	2880			
	Girders: 6 per span / 480' total span. Coating: 7.3 square feet/linear feet of girder.						
515 - Steel Protective Coating		21024	sq. ft.	21024			
215 - Reinforced Concrete Abutment	1- Ben.	106	ft.	105	1	0	0
	Abutments: 52' each / Bents 1 & 9. Bent 9 left: Some efflorescence showing on face of backwall between Girders 2 & 3.						
1120 - Efflorescence/Rust Staining		1			1		
227 - Reinforced Concrete Pile	1- Ben.	54	each	54			
	Piling: 8 per bent / Bents 2-4 & 6-8; 6 per bent / Bent 5.						
234 - Reinforced Concrete Pier Cap	1- Ben.	285	ft.	285			
	Caps: 41' each / Bents 2-4 & 6-8; 39' each / Bent 5..						
300 - Strip Seal Expansion Joint	1- Ben.	120	ft.	112	2	6	0
	Joints: 40' each / Bents 1, 5, & 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)						
2360 - Adjacent Deck or Header		8			2	6	
7000 - Damage					0		
310 - Elastomeric Bearing	1- Ben.	60	each	60			
	Bearings: 6 per bent / Bents 1-4, 5 back, 5 ahead, 6-9.						
331 - Reinforced Concrete Bridge Railing	1- Ben.	964	ft.	964			
	Railing: 482' each side.						

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Maintenance Needs

Date Reported: 09/18/2017

Priority: D - Routine

Work Code: N/A

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:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Approach roadway - Bent 1.
Settlement.