

Bridge Inspection Report

02067

SH 165-03 LM 7.82

over

Big Bayou Slough



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: 02067

Inspection Date:

Facility Carried: SH 165-03 LM 7.82

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	04/19/2017
(8) STRUCTURE NUMBER	02067	(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 017	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Big Bayou Slough	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 165-03 LM 7.82		
(9) LOCATION	2.5 Mi S US 65-Dermott		
(11) MILEPOINT 7.820	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000165030 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 33.52800	(17) LONGITUDE -91.41029		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	5
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE	5 (60) SUBSTRUCTURE 7
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION	6 (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 1938	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	2
(42) TYPE OF SERVICE ON 1 UNDER 5		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 00		(64) OPERATING RATING	60
(29) AVERAGE DAILY TRAFFIC 970	(19) BYPASS DETOUR LENGTH 10	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	36
(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.) 50	(49) STRUCTURE LENGTH (ft.) 153	(67) STRUCTURAL EVALUATION	5
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1.5 RIGHT 1.5		(68) DECK GEOMETRY	4
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 24.0		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 28		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 32.2		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 45	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	36A) BRIDGE RAILINGS:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 24.0		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:	0
(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 66.9
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	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	06
(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 1650	(115) YEAR OF FUTURE ADT 2033	(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.	4284	sq. ft.	2973	450	861	0
	Deck 153' by 28 Deck has large unsealed cracks in all spans. All spans have concrete patched areas. Soffit has spalls with exposed rebar and large cracks all spans approx 10' apart.						
1080 - Delamination/Spall/Patched Area		450			450		
1090 - Exposed Rebar		36				36	
1130 - Cracking (RC and Other)		825				825	
107 - Steel Open Girder/Beam	1- Ben.	750	ft.	698	15	35	2
	Girders 5 each at 150. Girder ends all spans flaking rust with some section loss at haunch and lower flange near diaphragms. Some small areas of surface rust to upper flange. Diaphragms have some flaking rust with section loss most common at abutments. Span 3 bent 3 girder 4 has heavy rust with holes in beam haunch area common beam 5 this location.						
1000 - Corrosion		52			15	35	2
515 - Steel Protective Coating		5531	sq. ft.	5265	0	45	221
3440 - Effectiveness (Steel Protective Coatings)		266				45	221
215 - Reinforced Concrete Abutment	1- Ben.	64	ft.	54	10	0	0
	Abutments 1 & 4: 32' each Bent 1 end slope has erosion exposing bottom of cap.						
6000 - Scour		10			10		
227 - Reinforced Concrete Pile	1- Ben.	10	each	10			
	Pile 5 each at bents 2-3						
234 - Reinforced Concrete Pier Cap	1- Ben.	54	ft.	54			
	Caps 27' each at bents 2-3 Caps have some staining due to joint seals leaking.						
303 - Assembly Joint with Seal	1- Ben.	104	ft.	0	0	0	104
	26' each bents 1-4 All Joint armor have some rust with flaking and pitting.						
2310 - Leakage		104					104
311 - Movable Bearing	1- Ben.	15	each	0	3	12	
	Bearings 5 each spans 1-3 Bearings have pitting rust with some flaking.						
515 - Steel Protective Coating		30	sq. ft.	0	0	30	0
3440 - Effectiveness (Steel Protective Coatings)		30				30	
313 - Fixed Bearing	1- Ben.	15	each	0	5	10	
	Bearing 5 each spans 1-3. Bearings have rust with some areas of flaking and pitting.						
515 - Steel Protective Coating		30	sq. ft.	0	0	30	0
3440 - Effectiveness (Steel Protective Coatings)		30				30	

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331 - Reinforced Concrete Bridge Railing	1- Ben.	306	ft.	298	0	0	8
	153' each side. A couple of small spalls in concrete rail and post. Left bridge rail has damage due to traffic impact. (Note bridge maintenance crews working on repairs.)						
7000 - Damage		8					8