

Bridge Inspection Report

03985
US 65B-14 LM 3.98
over
Pitts Street



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: 03985

Inspection Date:

Facility Carried: US 65B-14 LM 3.98

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	03/07/2017
(8) STRUCTURE NUMBER	03985	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 6 65 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	02 (3) COUNTY CODE 069	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	52800	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Pitts Street	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 65B-14 LM 3.98		
(9) LOCATION	0.7 Mi W US 79B-PineBluff		
(11) MILEPOINT 3.980	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.22991	(17) LONGITUDE -92.03245		
(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	7
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(60) SUBSTRUCTURE	6
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	N
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
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 1970	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	6
(42) TYPE OF SERVICE ON 1 UNDER 1		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 04 UNDER 02		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 14000	(19) BYPASS DETOUR LENGTH 2	(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 30		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 75	(49) STRUCTURE LENGTH (ft.) 228	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0.5 RIGHT 0.5		(68) DECK GEOMETRY	9
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	89.6	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	9
(52) DECK WIDTH, OUT-TO-OUT (ft.)	91.5	(71) WATERWAY ADEQUACY	N
(32) APPROACH ROADWAY WIDTH (ft.)	88.9	(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 2	(34) SKEW (DEG.) 45	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	36A) BRIDGE RAILINGS:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	90.6	36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.)	H 22.84	36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H 14.2	(113) SCOUR CRITICAL BRIDGES	N
(56) MIN LATERAL UNDER CLEARANCE (ft.)	11.6	SUFFICIENCY RATING	0
		STATUS	98.0
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	12
(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 17734	(115) YEAR OF FUTURE ADT 2028	(103) TEMP STRUCTURE	
		(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	N
		(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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UNDER RECORD 2

IDENTIFICATION

(1) STATE CODE	056 - Arkansas	(7) FACILITY CARRIED	US 65 Business
(3) COUNTY CODE	069	(8) STRUCTURE NUMBER	03985
(4) PLACE CODE	52800	(9) LOCATION	0.7 Mi W US 79B / SH 365
(5) INV. ROUTE (ON/UNDER)	2 5 1 9645 0	(11) MILEPOINT	0.010 (12) BASE HIGHWAY NETWORK 0
(6) FEATURES INTERSECTED	Pitts Street	(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00
		(16) LATITUDE	34. 22962222222222 (17) LONGITUDE -92.0316416666667

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE, MAIN A) KIND OF MATERIAL/DESIGN: 3 - Steel
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder

AGE OF SERVICE

(19) BYPASS DETOUR LENGTH	2	(30) YEAR OF AVERAGE DAILY TRAFFIC	1989
(27) YEAR BUILT	1970	(42) TYPE OF SERVICE	ON 1 UNDER 1
(28) LANES	ON 02 UNDER 04	(109) AVERAGE DAILY TRUCK TRAFFIC	30
(29) AVERAGE DAILY TRAFFIC	400		

GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	23.3	(48) LENGTH OF MAXIMUM SPAN	75	(49) STRUCTURE LENGTH	228
(47) TOTAL HORIZONTAL CLEARANCE	47.8				

CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	2
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	19	(103) TEMP STRUCTURE	
(100) STRAHNET HIGHWAY DESIGNATION	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(101) PARALLEL STRUCTURE DESIGNATION	N	(110) DESIGNATED NATIONAL NETWORK	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.	20861	sq. ft.	9917	192	10752	0
Deck: 91.5' wide x 228' long. Left (westbound) lanes: All spans: Unsealed, hairline- to minor-sized map cracking with some minor- to moderate-sized transverse cracking, heaviest in travel lanes - 5376 sqft CS3. Span 2: A couple small shallow spalls along inside edge line - 32 sqft CS2. Span 3: Spalling with rebar exposed in left wheel rut of left (outer) lane (somewhat patched over with asphalt mix) - 64 sqft CS3. Right (eastbound) lanes: All spans: Unsealed, hairline- to minor-sized map cracking with some minor- to moderate-sized transverse cracking, heaviest in travel lanes - 4812 sqft CS3. Spans 1 & 2: Some moderate- to large-sized transverse cracking with spalling and exposure of reinforcing steel (on original concrete deck and patched area) in right (outer) lane - 500 sqft CS3. Span 2: Some transverse cracking with rebar exposed in right wheel rut of right (outer) lane - 100 sqft CS2. Soffit - Span 1 Bay 13: Some light efflorescence beginning to show on soffit around 1/4-1/3 span - 60 sqft CS2.							
1080 - Delamination/Spall/Patched Area		32			32		
1090 - Exposed Rebar		664			100	564	
1120 - Efflorescence/Rust Staining		60			60		
1130 - Cracking (RC and Other)		10188				10188	
107 - Steel Open Girder/Beam	1- Ben.	3375	ft.	3315	30	30	0
Girders: 15 per span / 225' total span. Coating (12.5" wide x 35" tall): 8.96 square feet per linear feet of girder. Some rust beginning to form at end of girders, especially on haunches of girders where joint material has failed and is leaking.							
1000 - Corrosion		60			30	30	
515 - Steel Protective Coating		30240	sq. ft.	29702	0	269	269
3440 - Effectiveness (Steel Protective Coatings)		538				269	269
205 - Reinforced Concrete Column	1- Ben.	12	each	6	1	5	0
Columns: 6 per bent / Bents 2 & 3. Bents 2 & 3: Scattered cracking, delaminations, and small shallow spalls (with some exposed corroding rebar).							
1080 - Delamination/Spall/Patched Area		1			1		
1090 - Exposed Rebar		5				5	

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215 - Reinforced Concrete Abutment	1- Ben.	262	ft.	260	2	0	0
	Abutments: 131' each (skewed) / Bents 1 & 4. Bent 1: Dirt & debris on cap and around bearings, especially near Girder 13. Abutment - Bent 1 has small spalls with exposed rebar. Abutment - Bent 4 has vertical cracks.						
1090 - Exposed Rebar		2			2		
234 - Reinforced Concrete Pier Cap	1- Ben.	258	ft.	237	4	17	0
	Caps: 129" each (skewed) / Bents 2 & 3. Bents 2 & 3: Scattered cracking, delaminations, and small shallow spalls (with some exposed corroding rebar).						
1080 - Delamination/Spall/Patched Area		4			4		
1090 - Exposed Rebar		12				12	
1130 - Cracking (RC and Other)		5				5	
302 - Compression Joint Seal	1- Ben.	504	ft.	298	44	130	32
	Joints: 126' (skewed) each / Bents 1-4. Bents 1 & 2: Some joint material has been reinstalled/replaced since 2009 inspection. Bent 1 left: Repairs made to top of backwall, but road iron missing. Left (westbound) lanes - Bent 1: Preformed joint material has fallen out in left outer lane (4' CS4) with remaining material losing adhesion, sagging, and leaking (44' CS2). Bent 2: Loss of adhesion and leakage in various locations (10' CS3). Bent 3: Loss of adhesion and leakage in various locations (24' CS3). Bent 4: A couple areas of loss of adhesion (12' CS3) with remaining material tattered and worn (36' CS3). Right (eastbound) lanes - Bent 1: Preformed joint material has fallen out - right outer lane and shoulder (28' CS4). Bent 4: A couple areas of loss of adhesion (12' CS3) with remaining material tattered and worn (36' CS3). Remaining material: Preformed joint material beginning to lose adhesion, sag, and leak in scattered locations. (TOTAL MEASUREMENTS INCLUDES MOUNTABLE MEDIAN.)						
2320 - Seal Adhesion		134			44	58	32
2330 - Seal Damage		72				72	
311 - Movable Bearing	1- Ben.	45	each	15	30	0	0
	Moveable bearings: 15 per bent / Bents 1, 2 ahead, & 3 ahead. Coating: 2.5 square feet each. Some surface rust forming on sole plates, especially near where joint material has fallen out or is leaking.						
1000 - Corrosion		30			30		
515 - Steel Protective Coating		135	sq. ft.	60	0	75	0
3440 - Effectiveness (Steel Protective Coatings)		75				75	

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313 - Fixed Bearing	1- Ben.	45	each	40	0	5	0
	Fixed bearings: 15 per bent / Bents 2 back, 3 back, & 4. Coating: 2.5 square feet each. Bent 4 Bearings 11-15: Rusting with some flaking and pack rust, especially on masonry plate. Remaining bearings: Some light surface rust beginning to form in a few spots, especially near where joint material has fallen out.						
1000 - Corrosion		5				5	
515 - Steel Protective Coating		135	sq. ft.	122	0	0	13
3440 - Effectiveness (Steel Protective Coatings)		13					13
321 - Reinforced Concrete Approach Slab	1- Ben.	6624	sq. ft.	2070	2070	2484	0
	Approach slab: 1656 square feet each / Bents 1 left & right and Bent 4 left & right. Scattered unsealed, minor- to moderate-sized cracks. Some old settlement repairs (mud-jacking) - Bents 1 & 4 left side and Bent 4 right side.						
1080 - Delamination/Spall/Patched Area		2070			2070		
1130 - Cracking (RC and Other)		2484				2484	
330 - Metal Bridge Railing	1- Ben.	456	ft.	456			
	Railing: 228' each side. Coating: 2.1 square feet per linear feet of railing. Concrete curb topped with metal railing.						
515 - Steel Protective Coating		958	sq. ft.	958			