

Bridge Inspection Report

03632
SH 104-02 LM 3.52
over
Caney Bayou



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: 03632

Inspection Date:

Facility Carried: SH 104-02 LM 3.52

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	12/18/2017
(8) STRUCTURE NUMBER	03632	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 104 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	Caney Bayou	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 104-02 LM 3.52	CONDITION	
(9) LOCATION	1.1 Mi N I-530-Samples	(58) DECK	7
(11) MILEPOINT 3.529	(12) BASE HIGHWAY NETWORK 0	(59) SUPERSTRUCTURE	7 (60) SUBSTRUCTURE 8
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00	(61) CHANNEL & CHANNEL PROTECTION	7 (62) CULVERT N
(16) LATITUDE 34.32885	(17) LONGITUDE -92.14037	LOAD RATING AND POSTING	
(98A) BORDER BRIDGE CODE		(31) DESIGN LOAD	2
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT	(63) METHOD USED TO DETERMINE OPERATING RATING	1
STRUCTURE TYPE AND MATERIAL		(64) OPERATING RATING	40.0
(43) STRUCTURE TYPE, MAIN		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
A) KIND OF MATERIAL/DESIGN:	1 - Concrete	(66) INVENTORY RATING	24.0
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	5
(45) NUMBER OF SPANS IN MAIN	3 (46) NUMBER OF APPROACH	(68) DECK GEOMETRY	2
(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	1963 (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	2300 (19) BYPASS DETOUR LENGTH	36C) APPROACH GUARDRAIL:	0
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	36D) APPROACH GUARDRAIL ENDS:	0
(109) AVERAGE DAILY TRUCK TRAFFIC	1	(113) SCOUR CRITICAL BRIDGES	5
GEOMETRIC DATA		SUFFICIENCY RATING	63.0 STATUS FO
(48) LENGTH OF MAX SPAN (ft.)	25 (49) STRUCTURE LENGTH (ft.)	CLASSIFICATION	
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0.8 RIGHT 0.8	(112) NBIS BRIDGE LENGTH	Y
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	24.0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(52) DECK WIDTH, OUT-TO-OUT (ft.)	28.5	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	07
(32) APPROACH ROADWAY WIDTH (ft.)	22.0	(100) STRAHNET HIGHWAY DESIGNATION	0
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(101) PARALLEL STRUCTURE DESIGNATION	N
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	(102) DIRECTION OF TRAFFIC	2
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	26.2	(103) TEMP STRUCTURE	
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	(105) FEDERAL LANDS HIGHWAYS	0
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	(110) DESIGNATED NATIONAL NETWORK	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(20) TOLL	3
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	(21) MAINTENANCE RESPONSIBILITY	01
PROPOSED IMPROVEMENTS		(22) OWNER	01
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(37) HISTORICAL	5
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0	NAVIGATION DATA	
(94) BRIDGE IMPROVEMENT COST (\$)	0	(38) NAVIGATION CONTROL	0
(95) ROADWAY IMPROVEMENT COST (\$)	0	(111) PIER OR ABUTMENT PROTECTION	5
(96) TOTAL PROJECT COST	0	(39) NAV VERT CLEARANCE (ft.)	0
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
(114) FUTURE ADT	2533 (115) YEAR OF FUTURE ADT	(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
38 - Reinforced Concrete Slab	1- Ben.	2137	sq. ft.	2124	13	0	0
<div style="border: 1px solid red; padding: 5px; color: red; display: inline-block;">Note: 4" ACHM overlay on deck</div>	Deck: 28.5' wide x 75' long. Bents 2 & 3: Moderate- to large-sized cracking and deterioration in asphalt wearing surface at joints with some very small areas where asphalt has spalled out. A couple minor-sized longitudinal cracks in asphalt wearing surface. Span 1 left & right sides @ Bent 2: Vertical cracks on sides of slabs over cap. (Cracks not visible on top due to asphalt wearing surface.) Soffit A couple scattered short hairline- to minor-sized cracks with some rust staining. Delams and spalls on drain open areas 2'. Span 1 left: 3' x 8' area of hairline- to minor-sized map cracking with some rust staining, just left of centerline near midspan.						
	1080 - Delamination/Spall/Patched Area	2			2		
	1120 - Efflorescence/Rust Staining	1			1		
	1130 - Cracking (RC and Other)	10			10		
	510 - Wearing Surfaces	1800	sq. ft.	1800			
215 - Reinforced Concrete Abutment	1- Ben.	64	ft.	52	12	0	0
Abutments: 32' each / Bents 1 & 4. Bent 1: Some minor (2-4" tall) settlement of embankment/erosion under center 3/4 of abutment.							
6000 - Scour		12			12		
227 - Reinforced Concrete Pile	1- Ben.	6	each	6			
Piling: 3 per bent / Bents 2 & 3. Minor abrasion on all piles up from ground line 2'							
234 - Reinforced Concrete Pier Cap	1- Ben.	48	ft.	48			
Caps: 24' each / Bents 2 & 3. Some minor staining due to leaking seals .							
301 - Pourable Joint Seal	1- Ben.	57	ft.	0	0	57	0
Pourable joint seals: 28.5' each bents 2 & 3. Debris impaction from asphalt / chip seal overlay.							
2350 - Debris Impaction		57				57	
330 - Metal Bridge Railing	1- Ben.	150	ft.	0	150	0	0
Railing: 75' each side. Metal railing with concrete posts. Metal railing mostly covered with light surface rust.							
1000 - Corrosion		150			150		
515 - Steel Protective Coating		375	sq. ft.	0	0	375	0
3440 - Effectiveness (Steel Protective Coatings)		375				375	