

Bridge Inspection Report

03736
US 65 Boone
over
HOG CREEK



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: 03736

Inspection Date:

Facility Carried: US 65 Boone

Bridge Inspection Report

Executive Summary

TAD/BDS 8/23/2016. Routine inspection only. Concrete deck spans #1 thru #3- majority of spalled and delaminated areas have been repaired and are holding at this inspection. Chip and seal overlay has been placed on deck. Spalls to bent #1 right column. Bent #1 left column has small full height crack on back side. Bent #2 left column has honeycomb at ground line extending 4' up with 1' of rebar exposed. Soffit: Spall with exposed rebar 12' back of abutment #2 ,also spall with rebar exposed in span #2 between girders #3 & #4 minor spalling at all deck drain areas. Concrete bridge rail post in span #3 left has been impacted, causing exposed rebar. Shallow rebar exposed underneath pier cap at bent #2 left.

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National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	08/23/2016
(8) STRUCTURE NUMBER	03736	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 65 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	09 (3) COUNTY CODE 009	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	HOG CREEK	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 65 Boone		
(9) LOCATION	1.0 MI NW JCT OF SH 206		
(11) MILEPOINT 9.578	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000065020 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 36.14446	(17) LONGITUDE -92.98237		
(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	7 (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 1966	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	5
(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	60.0
(29) AVERAGE DAILY TRAFFIC 8600	(19) BYPASS DETOUR LENGTH 16	(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 12		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 59	(49) STRUCTURE LENGTH (ft.) 179	(67) STRUCTURAL EVALUATION	7
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1.5 RIGHT 1.5		(68) DECK GEOMETRY	2
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 27.9		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 33.4		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 40.0		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 30	(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.) 27.9		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	8
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING	2 STATUS 63.3
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED 31	(75B) WORK DONE BY 1	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 210		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(94) BRIDGE IMPROVEMENT COST (\$) 0		(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
(95) ROADWAY IMPROVEMENT COST (\$) 400		(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST 1220		(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE 2002		(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 12000	(115) YEAR OF FUTURE ADT 2034	(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	0
		(111) PIER OR ABUTMENT PROTECTION	1
		(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.	4956	sq. ft.	4356	600	0	0
	Concrete deck spans #1 thru #3 majority of spalled and delamination areas have been repaired.						
1080 - Delamination/Spall/Patched Area		600			600		
107 - Steel Open Girder/Beam	1- Ben.	885	ft.	125	760		
	5 girders 33" tall 11.5" wide flange 3/4" thick flange 1/2" web thickness. girders are corroded at ends and beneath drain areas. top side of bottom flange has mild corrosion on fascia girders.						
515 - Steel Protective Coating		7160	sq. ft.	6400	760		
205 - Reinforced Concrete Column	1- Ben.	4	each	2	2	0	0
	Spall to bent #1 right column. Bent #1 left column has small full height crack at back side . Honeycomb in left column of bent #2 with 1' rebar exposed at groundline.						
1090 - Exposed Rebar		2			2		
215 - Reinforced Concrete Abutment	1- Ben.	90	ft.	90			
234 - Reinforced Concrete Pier Cap	1- Ben.	68	ft.	66	2		
	Shallow rebar exposed on under side of left pier cap of Bent #2.						
311 - Movable Bearing	1- Ben.	15	each	0	15		
313 - Fixed Bearing	1- Ben.	15	each	0	15		
333 - Other Bridge Railing	1- Ben.	358	ft.	24	334		