

Bridge Inspection Report

03050
U.S. 412 Benton 2
over
OVER KCS RR



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: 03050

Inspection Date:

Facility Carried: U.S. 412 Benton 2

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	02/22/2016
(8) STRUCTURE NUMBER	03050	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 412 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY 09	(3) COUNTY CODE 007	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	62180	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	OVER KCS RR	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	U.S. 412 Benton 2		
(9) LOCATION	1.78 MI E OF OKLAHOMA LI		
(11) MILEPOINT 1.780	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000412010 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 36.	(17) LONGITUDE -94.53419637152888		
	17229942979924		
(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 5	(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 1960	(106) YEAR RECONSTRUCTED 1981	(31) DESIGN LOAD	5
(42) TYPE OF SERVICE ON 1	UNDER 2	(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 04	UNDER 00	(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 24000	(19) BYPASS DETOUR LENGTH 3	(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
GEOMETRIC DATA		(41) STRUCTURE OPEN/POSTED/CLOSED	A
(48) LENGTH OF MAX SPAN (ft.) 55	(49) STRUCTURE LENGTH (ft.) 225		
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0	RIGHT 0		
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	64.0		
(52) DECK WIDTH, OUT-TO-OUT (ft.)	67.5		
(32) APPROACH ROADWAY WIDTH (ft.)	67.9		
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 30		
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99		
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	65.0		
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99		
(54) VERTICAL UNDER CLEARANCE (ft.)	R 22.58		
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	R 10		
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0		
PROPOSED IMPROVEMENTS		APPRAISAL	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(67) STRUCTURAL EVALUATION	6
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 0		(68) DECK GEOMETRY	7
(94) BRIDGE IMPROVEMENT COST (\$)	0	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	4
(95) ROADWAY IMPROVEMENT COST (\$)	0	(71) WATERWAY ADEQUACY	N
(96) TOTAL PROJECT COST	0	(72) APPROACH ROADWAY ALIGNMENT	8
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(36) TRAFFIC SAFETY FEATURE	
(114) FUTURE ADT 36668	(115) YEAR OF FUTURE ADT 2028	36A) BRIDGE RAILINGS:	1
		36B) TRANSITIONS:	0
		36C) APPROACH GUARDRAIL:	0
		36D) APPROACH GUARDRAIL ENDS:	0
		(113) SCOUR CRITICAL BRIDGES	N
		SUFFICIENCY RATING	0
		STATUS	84.9
		CLASSIFICATION	
		(112) NBIS BRIDGE LENGTH	Y
		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
		(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	14
		(100) STRAHNET HIGHWAY DESIGNATION	0
		(101) PARALLEL STRUCTURE DESIGNATION	N
		(102) DIRECTION OF TRAFFIC	2
		(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	N
		(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.	14272	sq. ft.	14192		80	0
	Deck - has spall/patched areas located in span #3 repairs appear to be holding at this inspection.						
1080 - Delamination/Spall/Patched Area		80				80	
107 - Steel Open Girder/Beam	1- Ben.	2230	ft.	2230			
	Steel protective coating - has chalking with a loss of pigmentation at this inspection.						
515 - Steel Protective Coating		13500	sq. ft.	8500	5000		0
3410 - Chalking (Steel Protective Coatings)		5000			5000		
205 - Reinforced Concrete Column	1- Ben.	16	each	14	2	0	0
	Bents #4 and #5 columns #2 right side - Delamination and cracking.						
1130 - Cracking (RC and Other)		2			2		
215 - Reinforced Concrete Abutment	1- Ben.	142	ft.	142			
234 - Reinforced Concrete Pier Cap	1- Ben.	284	ft.	262	22	0	0
	Bent #3 left concrete cap ahead side and Bent #4 right concrete cap under bearings - Deep spalls and delamination. Bent #4 concrete cap throughout - Horizontal cracking and deterioration.						
1080 - Delamination/Spall/Patched Area		3			3		
1090 - Exposed Rebar		11			11		
1130 - Cracking (RC and Other)		8			8		
302 - Compression Joint Seal	1- Ben.	450	ft.	177	273	0	0
	Deck expansion joints - Torn, displaced, excessive leakage and debris in joint. Bent 4 - joint material missing.						
2310 - Leakage		48			48		
2340 - Seal Cracking		225			225		
311 - Movable Bearing	1- Ben.	50	each	50			
313 - Fixed Bearing	1- Ben.	50	each	50			
321 - Reinforced Concrete Approach Slab	1- Ben.	2	sq. ft.	2			
331 - Reinforced Concrete Bridge Railing	1- Ben.	450	ft.	450			