

Bridge Inspection Report

05668
SH 37/Jackson Co.
over
BLACK RIVER



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: 05668

Inspection Date:

Facility Carried: SH 37/Jackson Co.

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	11/29/2016
(8) STRUCTURE NUMBER	05668	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 37 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	05 (3) COUNTY CODE 067	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	BLACK RIVER	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 37/Jackson Co.		
(9) LOCATION	2.55 MI W JCT SH 17 - 37		
(11) MILEPOINT 7.858	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.	(17) LONGITUDE -91.30028967857362		
	76576238597677		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	7
A) KIND OF MATERIAL/DESIGN:	4 - Steel continuous	(59) SUPERSTRUCTURE	7
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder	(60) SUBSTRUCTURE	8
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	6
A) KIND OF MATERIAL/DESIGN:	3 - Steel	(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder		
(45) NUMBER OF SPANS IN MAIN	3 (46) NUMBER OF APPROACH		
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE		
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION		
	0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1977 (106) YEAR RECONSTRUCTED	(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	59.0
(29) AVERAGE DAILY TRAFFIC	1400 (19) BYPASS DETOUR LENGTH	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(66) INVENTORY RATING	35.1
(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.)	180 (49) STRUCTURE LENGTH (ft.)	(67) STRUCTURAL EVALUATION	7
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0 RIGHT 0	(68) DECK GEOMETRY	5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	27.9	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	30.8	(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.)	29.9	(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	36A) BRIDGE RAILINGS:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	29.5	36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	36D) APPROACH GUARDRAIL ENDS:	1
(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	88.4
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	07
(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	2198 (115) YEAR OF FUTURE ADT	(103) TEMP STRUCTURE	
	2028	(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	0
		(20) TOLL	3
		(21) MAINTENANCE RESPONSIBILITY	01
		(22) OWNER	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

Rollup

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	29665	sq. ft.	24871	4791	3	0
107 - Steel Open Girder/Beam	1- Ben.	3840	ft.	3753	87	0	0
515 - Steel Protective Coating		42019	sq. ft.	41889	0	100	30
205 - Reinforced Concrete Column	1- Ben.	16	each	14	1	1	0
215 - Reinforced Concrete Abutment	1- Ben.	98	ft.	91	7	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	245	ft.	237	8	0	0
301 - Pourable Joint Seal	1- Ben.	280	ft.	280	0	0	0
302 - Compression Joint Seal	1- Ben.	277	ft.	5	0	74	198
310 - Elastomeric Bearing	1- Ben.	72	each	0	2	70	0
1000 - Corrosion		70		0	0	70	0
515 - Steel Protective Coating		160	sq. ft.	160	0	0	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	1924	ft.	1678	246	0	0

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Main

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	14798	sq. ft.	11453	3345	0	0
	See attached Form III for detailed locations and descriptions of deficiencies.						
1080 - Delamination/Spall/Patched Area		67			67		
1120 - Efflorescence/Rust Staining		1218			1218		
1130 - Cracking (RC and Other)		2060			2060		
107 - Steel Open Girder/Beam	1- Ben.	1920	ft.	1918	2	0	0
	See attached Form III for detailed locations and descriptions of deficiencies.						
1020 - Connection		2			2		
515 - Steel Protective Coating		29606	sq. ft.	29606	0	0	0
205 - Reinforced Concrete Column	1- Ben.	6	each	6			
234 - Reinforced Concrete Pier Cap	1- Ben.	110	ft.	102	8	0	0
	See attached Form III for detailed locations and descriptions of deficiencies.						
1130 - Cracking (RC and Other)		8			8		
301 - Pourable Joint Seal	1- Ben.	280	ft.	280			
302 - Compression Joint Seal	1- Ben.	62	ft.	0	0	0	62
	See attached Form III for detailed locations and descriptions of deficiencies.						
2320 - Seal Adhesion		62					62
310 - Elastomeric Bearing	1- Ben.	16	each	0	0	16	0
	See attached Form III for detailed locations and descriptions of deficiencies.						
1000 - Corrosion		16				16	
515 - Steel Protective Coating		48	sq. ft.	48			
331 - Reinforced Concrete Bridge Railing	1- Ben.	960	ft.	833	127	0	0
	Vertical cracking to Left & Right parapets @ all spans.						
1130 - Cracking (RC and Other)		127			127		

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Approach

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	14867	sq. ft.	13418	1446	3	0
	See attached Form III for detailed locations and descriptions of deficiencies.						
1080 - Delamination/Spall/Patched Area		65			65		
1090 - Exposed Rebar		3				3	
1120 - Efflorescence/Rust Staining		366			366		
1130 - Cracking (RC and Other)		1015			1015		
107 - Steel Open Girder/Beam	1- Ben.	1920	ft.	1835	85	0	0
	See attached Form III for detailed locations and descriptions of deficiencies.						
1000 - Corrosion		85			85		
515 - Steel Protective Coating		12413	sq. ft.	12283	0	100	30
3430 - Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)		130				100	30
205 - Reinforced Concrete Column	1- Ben.	10	each	8	1	1	0
	Minor vertical cracking to Column 1 @ Bent 8. Vertical crack to Column 1 @ Bent 7.						
1130 - Cracking (RC and Other)		2			1	1	
215 - Reinforced Concrete Abutment	1- Ben.	98	ft.	91	7	0	0
	Scour to Abutment 1.						
6000 - Scour		7			7		
234 - Reinforced Concrete Pier Cap	1- Ben.	135	ft.	135			
302 - Compression Joint Seal	1- Ben.	215	ft.	5	0	74	136
	See attached Form III for detailed locations and descriptions of deficiencies.						
2320 - Seal Adhesion		155				19	136
2340 - Seal Cracking		55				55	
310 - Elastomeric Bearing	1- Ben.	56	each	0	2	54	0
	See attached Form III for detailed locations and descriptions of deficiencies.						
1000 - Corrosion		54				54	
2240 - Loss Bearing Area		2			2		
515 - Steel Protective Coating		112	sq. ft.	112			
331 - Reinforced Concrete Bridge Railing	1- Ben.	964	ft.	845	119	0	0
	Vertical cracking to Left & Right parapets @ all spans.						
1130 - Cracking (RC and Other)		119			119		