

Bridge Inspection Report

A1115
US 67-17B-LM 0.84
over
VILLAGE CREEK



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: A1115

Inspection Date:

Facility Carried: US 67-17B-LM 0.84

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	12/16/2015
(8) STRUCTURE NUMBER	A1115	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 6 67 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	10 (3) COUNTY CODE 075	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	70900	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	VILLAGE CREEK	C. OTHER SPECIAL	Y 24 10/27/2016
(7) FACILITY CARRIED	US 67-17B-LM 0.84		
(9) LOCATION	0.84 MI NO JCT SH 25 & 67		
(11) MILEPOINT 0.630	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	000006717B (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 36.07797608392052	(17) LONGITUDE -90.9557135190206		
(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: 1 - Concrete		(59) SUPERSTRUCTURE	7 (60) SUBSTRUCTURE 4
B) TYPE OF DESIGN/CONSTR: 04 - Tee Beam		(61) CHANNEL & CHANNEL PROTECTION	4 (62) CULVERT N
(44) STRUCTURE TYPE, APPROACH SPANS			
A) KIND OF MATERIAL/DESIGN: 1 - Concrete			
B) TYPE OF DESIGN/CONSTR: 01 - Slab			
(45) NUMBER OF SPANS IN MAIN 1	(46) NUMBER OF APPROACH 2		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 6		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1931	(106) YEAR RECONSTRUCTED 1961	(31) DESIGN LOAD	4
(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	37.0
(29) AVERAGE DAILY TRAFFIC 7600	(19) BYPASS DETOUR LENGTH 1	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	22.0
(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.) 36	(49) STRUCTURE LENGTH (ft.) 76	(67) STRUCTURAL EVALUATION	4
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(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.) 31.7		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 42.0		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 20	(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	5
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING	1 STATUS 37.4
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.) 101.0		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	06
(95) ROADWAY IMPROVEMENT COST (\$)	400	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	857	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2002	(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 8372	(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
		(22) OWNER	01
		(37) HISTORICAL	5
		NAVIGATION DATA	
		(38) NAVIGATION CONTROL	0
		(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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Element Inspection

Rollup

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
16 - Reinforced Concrete Top Flange	1- Ben.	1141	sq. ft.	1141	0	0	0
510 - Wearing Surfaces		1040	sq. ft.	984	56	0	0
3220 - Crack (Wearing Surface)		56		0	56	0	0
38 - Reinforced Concrete Slab	1- Ben.	1268	sq. ft.	1148	120	0	0
1130 - Cracking (RC and Other)		120		0	120	0	0
510 - Wearing Surfaces		1116	sq. ft.	1060	56	0	0
3220 - Crack (Wearing Surface)		56		0	56	0	0
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	252	ft.	0	252	0	0
215 - Reinforced Concrete Abutment	1- Ben.	68	ft.	0	34	34	0
6000 - Scour		34		0	0	34	0
227 - Reinforced Concrete Pile	1- Ben.	14	each	0	14	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	69	ft.	0	69	0	0
330 - Metal Bridge Railing	1- Ben.	152	ft.	0	152	0	0

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Element Inspection

main

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
16 - Reinforced Concrete Top Flange	1- Ben.	1141	sq. ft.	1141			0
510 - Wearing Surfaces		1040	sq. ft.	984	56		0
3220 - Crack (Wearing Surface)		56			56		
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	252	ft.	0	252		
227 - Reinforced Concrete Pile	1- Ben.	14	each	0	14		
234 - Reinforced Concrete Pier Cap	1- Ben.	69	ft.	0	69		
330 - Metal Bridge Railing	1- Ben.	72	ft.	0	72		

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Element Inspection

approach

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
38 - Reinforced Concrete Slab	1- Ben.	1268	sq. ft.	1148	120		0
1130 - Cracking (RC and Other)		120			120		
510 - Wearing Surfaces		1116	sq. ft.	1060	56		0
3220 - Crack (Wearing Surface)		56			56		
215 - Reinforced Concrete Abutment	1- Ben.	68	ft.	0	34	34	0
	Bottom of abutment protection at Bent 1 is undermined as previously reported, see 2012 photo. Sediment buildup in channel is diverting water toward Bent 3 and Bent 4 slope. No berm remains at Bent 4 slope. Bent 4 abutment is undermined 3ft dep and 5ft back under abutment at this time with piles 1 thru 4 exposed as previously reported, see 5/9/2013 photos						
6000 - Scour		34				34	
330 - Metal Bridge Railing	1- Ben.	80	ft.	0	80		

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Bridge Inspection Report

Pictures



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Bridge Inspection Report

Maintenance Needs

Date Reported: 12/14/2011 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Bridge ends

Roadway settlement at south bridge end, 1 in. TYP.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 12/14/2011 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Deck

Minor size and density cracks in top of deck. Insignificant size and density longitudinal cracks in bottom of deck with light efflorescence and rust staining.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Maintenance Needs

Date Reported: 5/10/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Channel

Sediment buildup in channel is diverting water toward Bent 3 and Bent 4 slope.

Localized scour at Bents 2 and 3.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Maintenance Needs

Date Reported: 5/29/2014 12:00:00 AM

Priority: B - Pressing; 6 month completion goal

Work Code:

Deficiency Description:

Channel slopes, both abutments.

Severe embankment erosion under bridge near end bents.

Bottom of abutment protection at Bent 1 is undermined as previously reported.

Sediment buildup in channel is diverting water toward Bent 3 and Bent 4 slope.

No berm remains at Bent 4 slope.

Bent 4 abutment is undermined 3 ft. deep and 5 ft. back under abutment at this time with piles 1 thru 4 exposed. see 05092013 photos.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description