

# Bridge Inspection Report

**02372**  
**US 63-03B-LM 0.37**  
**over**  
**VILLAGE CREEK**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

Inspector:

Structure Number: 02372

Inspection Date:

Facility Carried: US 63-03B-LM 0.37

## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	12/18/2015
(8) STRUCTURE NUMBER	02372	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 6 63 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	10 (3) COUNTY CODE 075	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	VILLAGE CREEK	C. OTHER SPECIAL	Y 48 12/18/2015
(7) FACILITY CARRIED	US 63-03B-LM 0.37		
(9) LOCATION	1.56 MI NW OF US 67		
(11) MILEPOINT 0.370	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	000006303B (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 36.06085067955179	(17) LONGITUDE -90.99773369047381		
(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: 3 - Steel		(59) SUPERSTRUCTURE	5 (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 6	(46) NUMBER OF APPROACH 0		
(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 1948	(106) YEAR RECONSTRUCTED 0000	(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	59.0
(29) AVERAGE DAILY TRAFFIC 1000	(19) BYPASS DETOUR LENGTH 6	(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
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 30	(49) STRUCTURE LENGTH (ft.) 182	(67) STRUCTURAL EVALUATION	5
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1.5 RIGHT 1.5		(68) DECK GEOMETRY	5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 25.9		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 31.5		(71) WATERWAY ADEQUACY	9
(32) APPROACH ROADWAY WIDTH (ft.) 40.0		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 0	(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.) 29.2		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 72.3
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.) 213.0		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	06
(95) ROADWAY IMPROVEMENT COST (\$)	185	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	579	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2004	(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 1162	(115) YEAR OF FUTURE ADT 2028	(103) TEMP STRUCTURE	
		(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	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

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>12 - Reinforced Concrete Deck</b>	1- Ben.	5733	sq. ft.	5673	60		0
1120 - Efflorescence/Rust Staining		60			60		
510 - Wearing Surfaces		4732	sq. ft.	4576	156		0
3220 - Crack (Wearing Surface)		156			156		
<b>107 - Steel Open Girder/Beam</b>	1- Ben.	729	ft.	689	40		0
1000 - Corrosion		40			40		
515 - Steel Protective Coating		5826	sq. ft.	5522	281		23
3440 - Effectiveness (Steel Protective Coatings)		304			281		23
<b>215 - Reinforced Concrete Abutment</b>	1- Ben.	50	ft.	0	50		
<b>227 - Reinforced Concrete Pile</b>	1- Ben.	20	each	0	20		
<b>234 - Reinforced Concrete Pier Cap</b>	1- Ben.	125	ft.	122	3		0
1090 - Exposed Rebar		3			3		
<b>311 - Movable Bearing</b>	1- Ben.	24	each	0	24		0
1000 - Corrosion		24			24		
<b>313 - Fixed Bearing</b>	1- Ben.	24	each	0	24		0
1000 - Corrosion		24			24		
<b>331 - Reinforced Concrete Bridge Railing</b>	1- Ben.	364	ft.	364			



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### Pictures



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### Bridge Inspection Report

## Maintenance Needs

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

**Priority:** C - Important

**Work Code:**

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**Deficiency Description:**

Asphalt Overlay Top of Deck  
has some cracking to asphalt over joints with a few areas beginning to shell out, 6in. to 8in. wide typical.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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

**Priority:** C - Important

**Work Code:**

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**Deficiency Description:**

Ends of Steel Girders  
are rusted with initial to minor measurable section loss, 1/4 in. typical, especially at diaphragm bracket and web connections and at concrete haunches. (1 ft. typical). Pack rust is forming between diaphragm brackets and web of girders, very minor swelling at this time.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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

**Priority:** G - General/ Preventive maintenance

**Work Code:**

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**Deficiency Description:**

Majority of Bearing Plates  
are rusted with initial to minor measurable section loss.

**Work Description:**

---

**Date Repairs Completed:**

**Maintenance Comments:**

---



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### Bridge Inspection Report

## Maintenance Needs

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

**Priority:** G - General/ Preventive maintenance

**Work Code:**

---

**Deficiency Description:**

Anchor Bolts and Nuts  
are rusted with some section loss, a few have up to 100% section loss at this time.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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

**Priority:** D - Routine

**Work Code:**

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**Deficiency Description:**

Right End of Cap Bent 5  
has one shelled out area (1 ft.) with rebar exposed.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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

**Priority:** D - Routine

**Work Code:**

---

**Deficiency Description:**

Right End of Cap Bent 2  
has 2 small areas shelled off with rebar exposed ( 1 ft. TYP.)

**Work Description:**

---

**Date Repairs Completed:**

**Maintenance Comments:**

---

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## Maintenance Needs

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

**Priority:** G - General/ Preventive maintenance

**Work Code:**

---

**Deficiency Description:**

Log Mile Posting  
is incorrect at 0.39, should be 0.37.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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**Date Reported:** 12/12/2013 12:00:00 AM

**Priority:** C - Important

**Work Code:**

---

**Deficiency Description:**

Span 6 Girder 4 Bent 7  
has a 2in. x 5in. hole in at the end of girder near concrete haunch thru web, see 2013 photo.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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**Date Reported:** 12/12/2013 12:00:00 AM

**Priority:** C - Important

**Work Code:**

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**Deficiency Description:**

Span 6 Bay 3 between Girders 3&4 at Bent 6 Diaphragm 1  
has a 6in. x 5in. hole in Diaphragm, see 2013 photo.

**Work Description:**

---

**Date Repairs Completed:**

**Maintenance Comments:**

---

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#### Maintenance Needs

**Date Reported:** 12/12/2013 12:00:00 AM

**Priority:** C - Important

**Work Code:**

---

**Deficiency Description:**

Span 6 Bay 3 between Girders 3&4 at Bent 7 Diaphragm 3  
has a 4in. x 1/2in. hole in Diaphragm, see 2013 photo.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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**Date Reported:** 12/12/2013 12:00:00 AM

**Priority:** G - General/ Preventive maintenance

**Work Code:**

---

**Deficiency Description:**

Bottom of Deck  
has several cracks with light effloescence.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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**Date Reported:** 12/12/2013 12:00:00 AM

**Priority:** C - Important

**Work Code:**

---

**Deficiency Description:**

Span 4 Girder 4 Bent 4  
has a 1 1/2in. hole near concrete haunch thru Web, see 2013 photo.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

---



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**Maintenance Needs**

**Date Reported:** 12/12/2013 12:00:00 AM

**Priority:** C - Important

**Work Code:**

---

**Deficiency Description:**

Span 5 Girder 1 Bent 6

has a 1in. x 3in. hole in at the end of girder near concrete haunch thru web, see 2013 photo.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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