

# Bridge Inspection Report

**19035**  
**Arkadelphia Walnut**  
**over**  
**CREEK**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

Inspector:

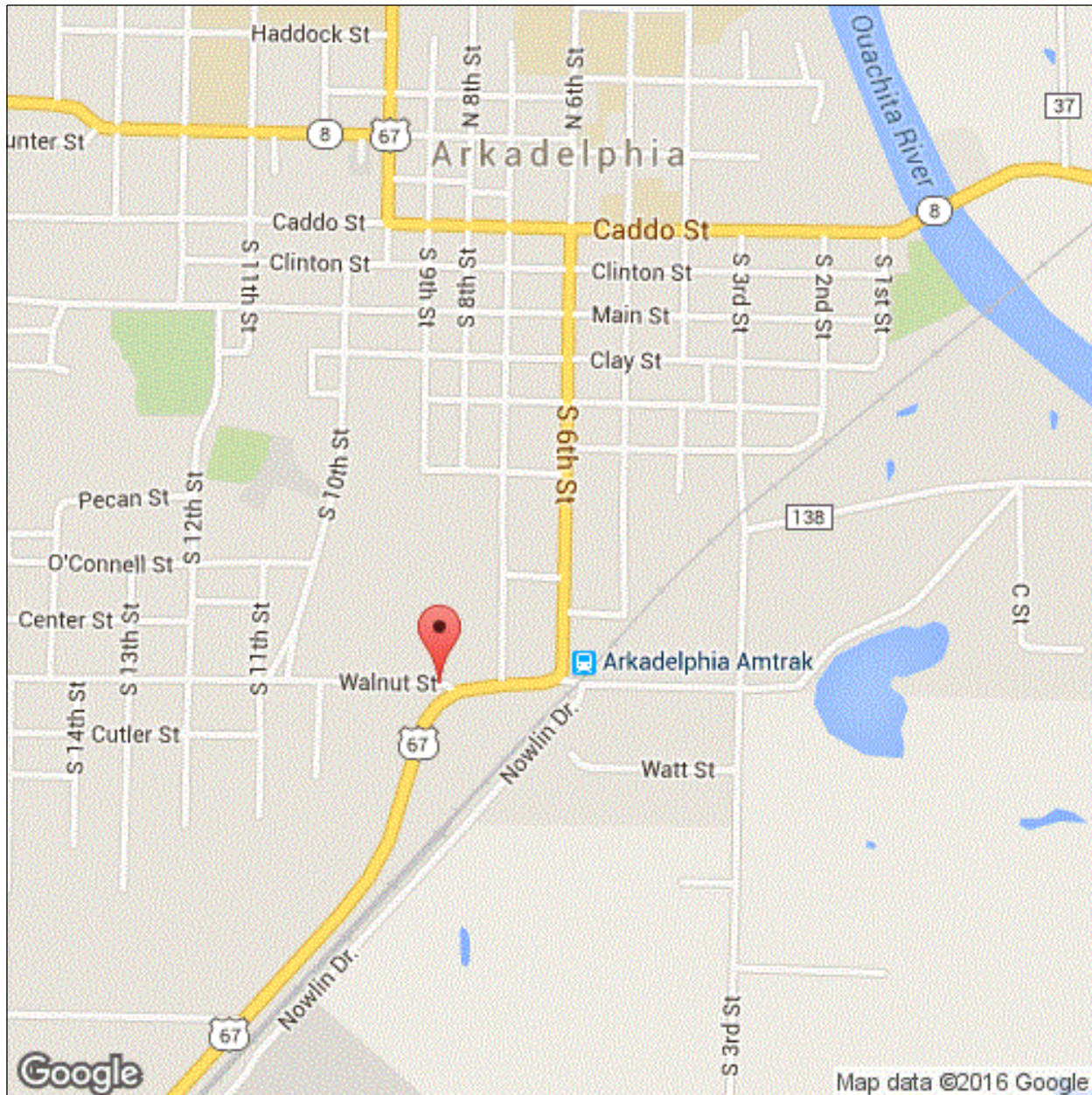
Structure Number: 19035

Inspection Date:

Facility Carried: Arkadelphia Walnut

## Bridge Inspection Report

### Location Map



Latitude: 34.11358

Longitude: -93.05625



Inspector:

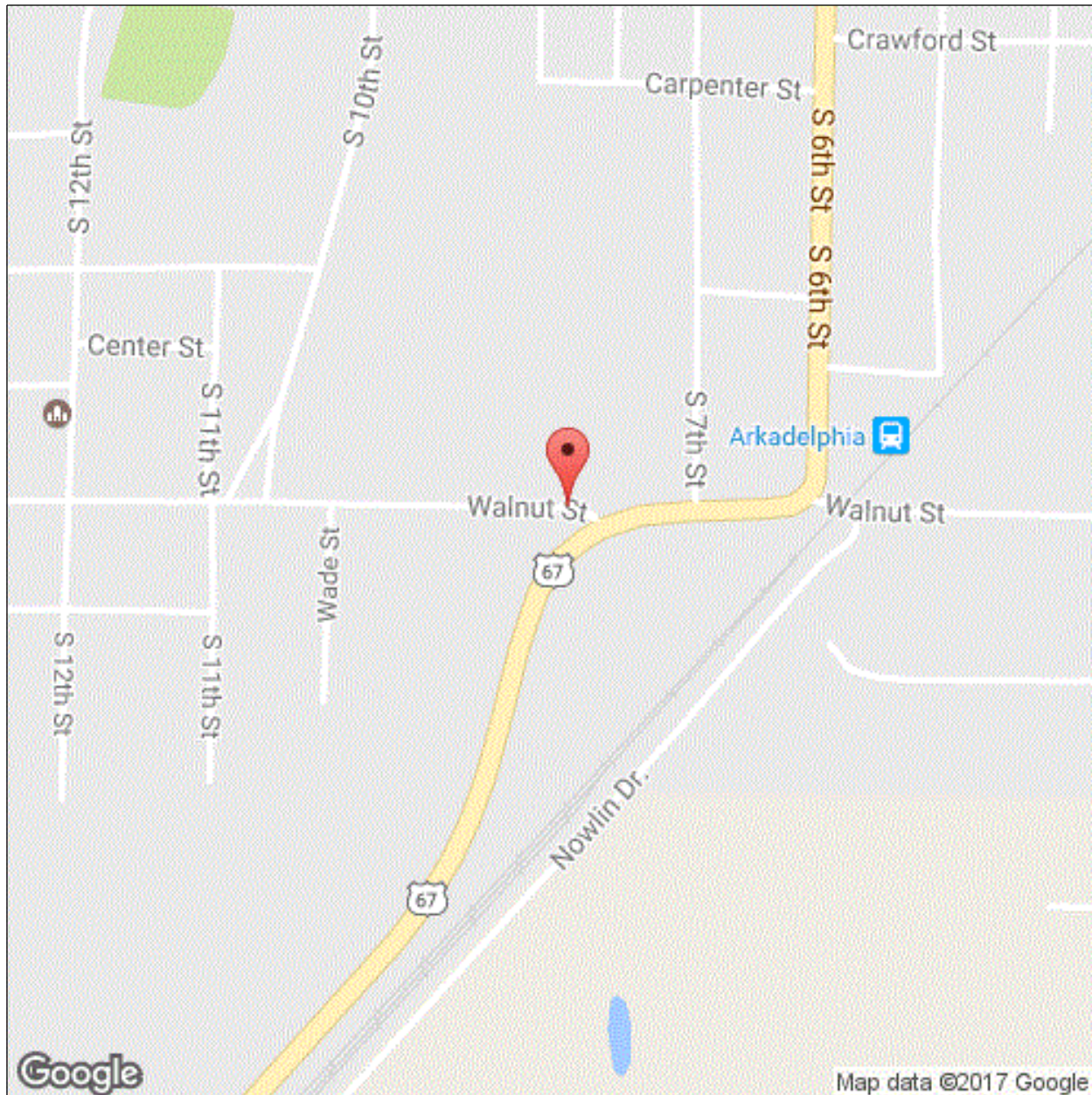
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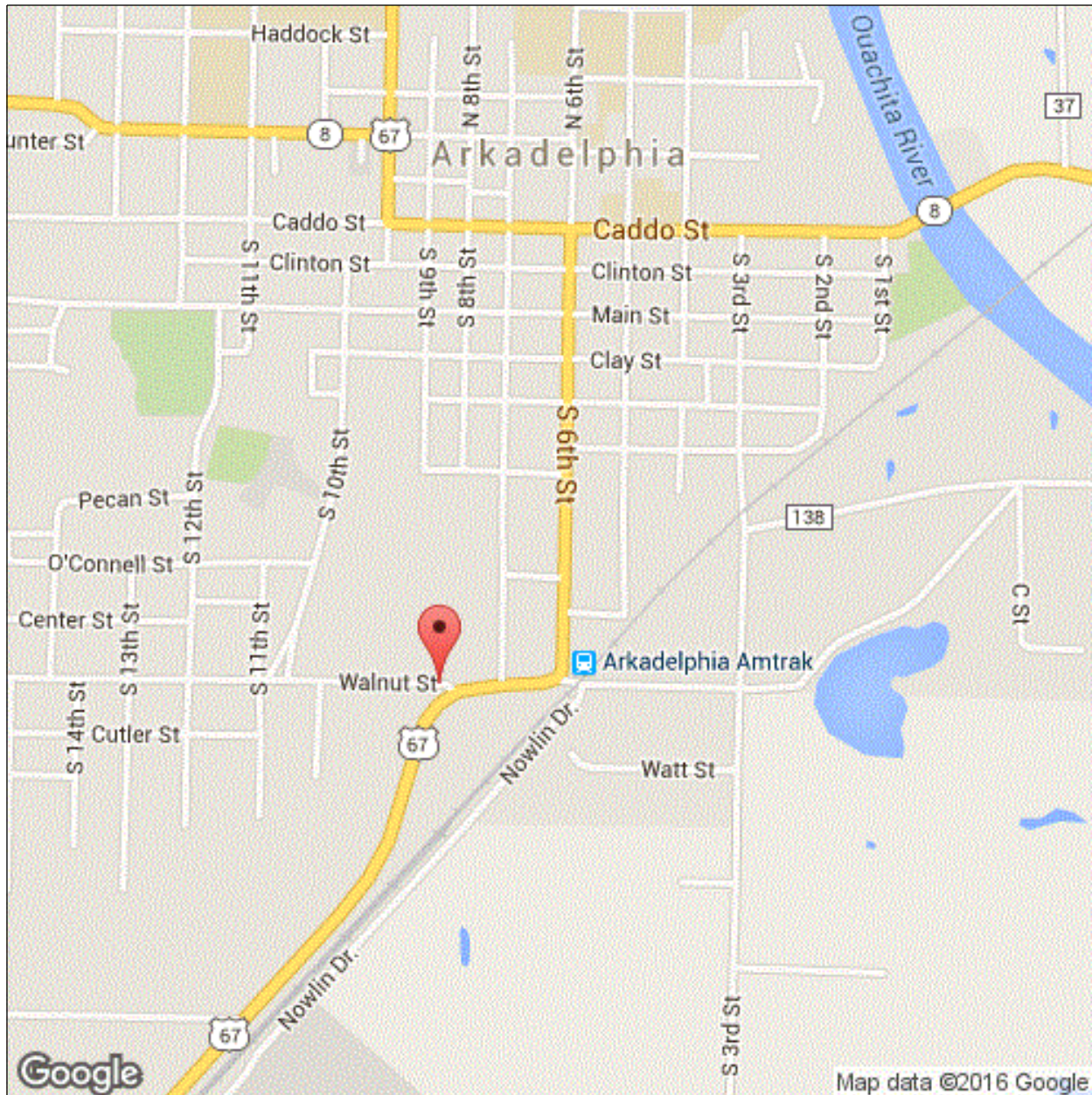
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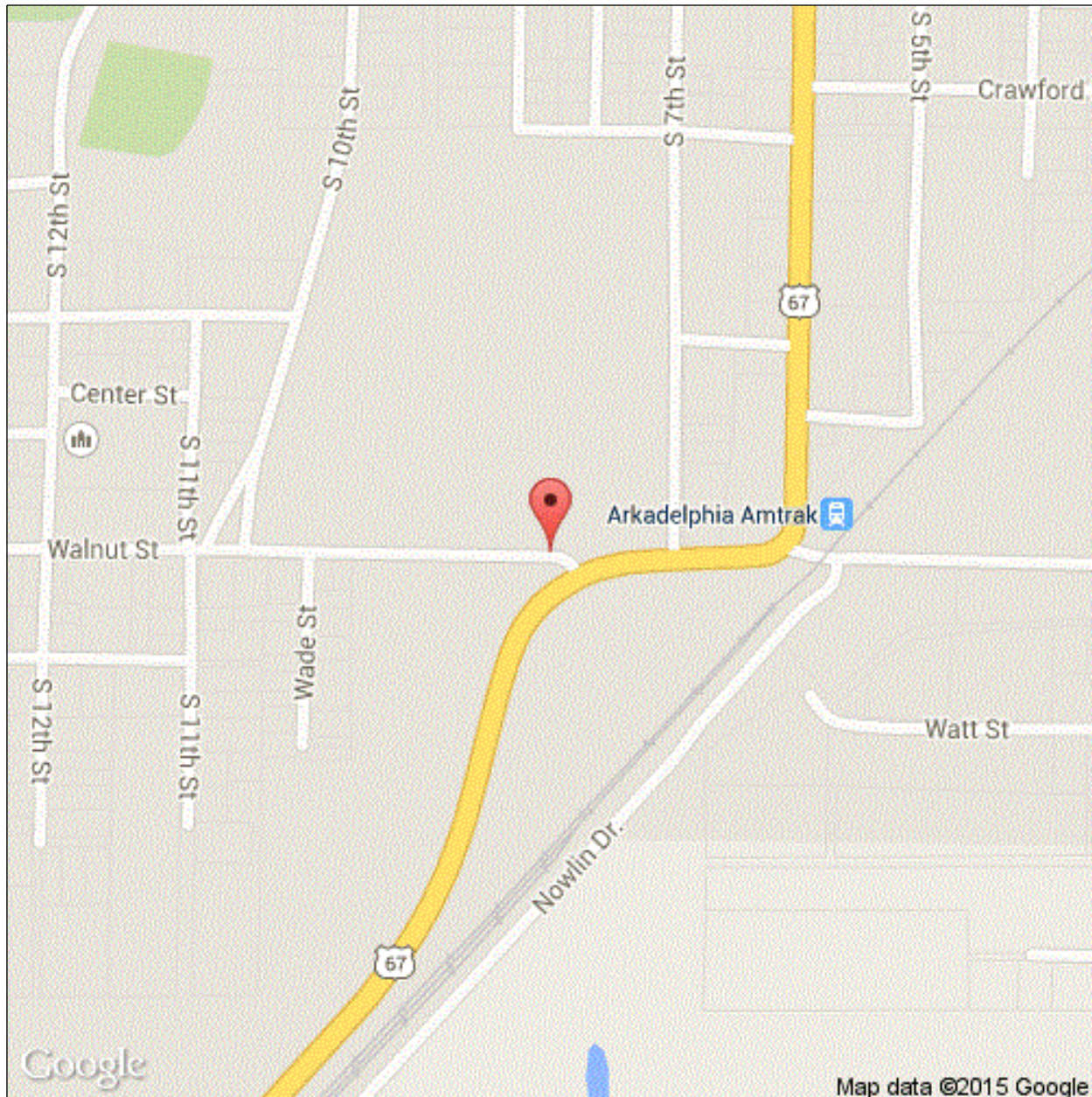
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## Bridge Inspection Report

### Location Map



Latitude: 34.11358

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## Bridge Inspection Report

### Executive Summary

04/25/2018 JPR -- This structure is logged from West to East.

Inspector:

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## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	04/25/2018
(8) STRUCTURE NUMBER	19035	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 5 1 60540 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	07 (3) COUNTY CODE 019	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	01720	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	CREEK	C. OTHER SPECIAL	Y 24 04/19/2017
(7) FACILITY CARRIED	Arkadelphia Walnut		
(9) LOCATION	.1 MI W JCT US 67		
(11) MILEPOINT 0.680	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.11358	(17) LONGITUDE -93.05625		
(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	4 (60) SUBSTRUCTURE 6
B) TYPE OF DESIGN/CONSTR: 04 - Tee Beam		(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 2	(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	2
(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	6
(29) AVERAGE DAILY TRAFFIC 2737	(19) BYPASS DETOUR LENGTH 1	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 1987		(66) INVENTORY RATING	4
(109) AVERAGE DAILY TRUCK TRAFFIC 1		(70) BRIDGE POSTING	0
		(41) STRUCTURE OPEN/POSTED/CLOSED	P
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 15	(49) STRUCTURE LENGTH (ft.) 31	(67) STRUCTURAL EVALUATION	2
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	2
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 23.3		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 25.3		(71) WATERWAY ADEQUACY	7
(32) APPROACH ROADWAY WIDTH (ft.) 23.0		(72) APPROACH ROADWAY ALIGNMENT	7
(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.) 23.3		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	18.9 STATUS 1
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.) 54.0		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	16
(95) ROADWAY IMPROVEMENT COST (\$)	187	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	323	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2003	(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 3303	(115) YEAR OF FUTURE ADT 2007	(103) TEMP STRUCTURE	
		(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	0
		(20) TOLL	3
		(21) MAINTENANCE RESPONSIBILITY	04
		(22) OWNER	04
		(37) HISTORICAL	4
		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

- No items available



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## Bridge Inspection Report

### Pictures

PHOTO 1

Description

Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 5/15/2014 12:00:00 AM

Priority: C - Important

Work Code:

#### Deficiency Description:

##### Substructure components (Pier Wall)

Pier wall abutment 1 Construction joint 8' from Rt. side of bridge, @ the bottom of the wall, there is about 1 1/2" gap in the wall. Just Lt. of construction joint it appears that there is no footing beneath the abutment wall, and channel is scouring beneath the wall. Pier wall bent 2 cracked near center, with possible settlement. Bt. 2 cap has a 1/2" gap and is cracked 2 jct. with G3.

#### Work Description:

Date Repairs Completed: 04/12/2016

Maintenance Comments:

Stage: Forward Local

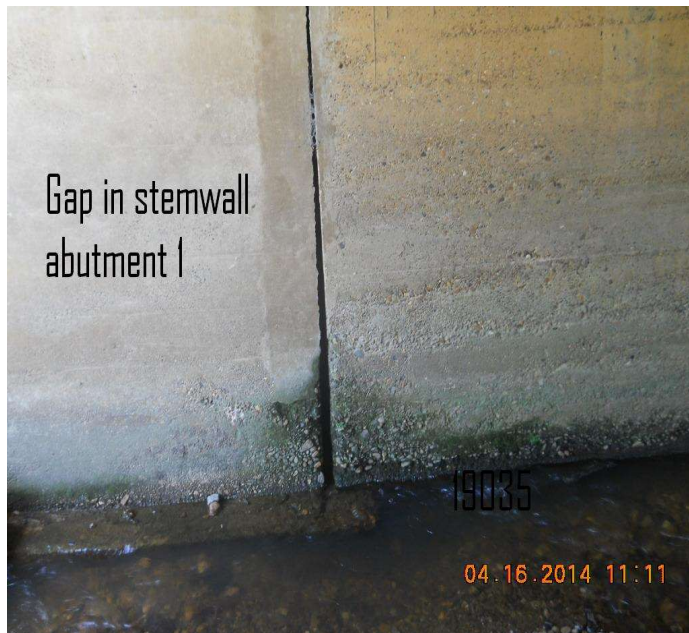


PHOTO 1 Description Abutment 1, gap in stem wall.

Stage: Forward Local

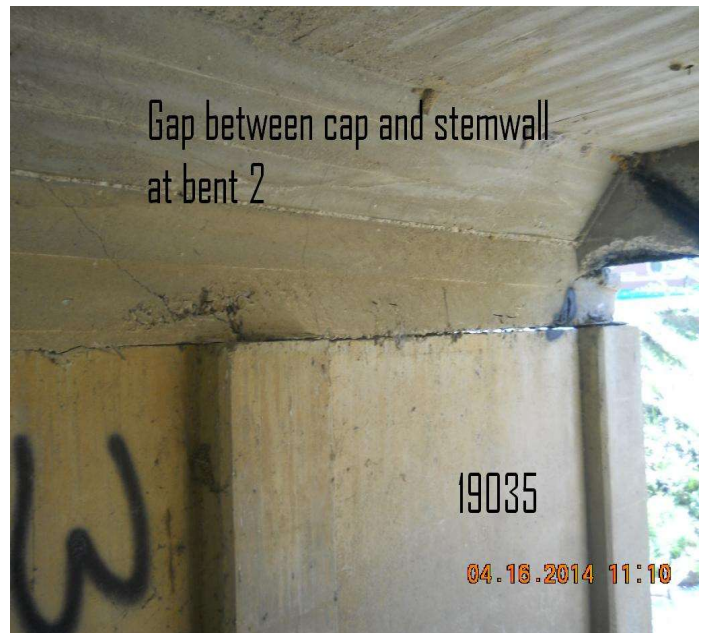


PHOTO 2 Description Bent 2, gap between cap and stem wall.



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### Maintenance Needs

Date Reported: 5/15/2014 12:00:00 AM

Priority: C - Important

Work Code:

#### Deficiency Description:

Concrete Girders have numerous spalled, cracked and delaminated areas, with exposed steel, steel has been painted. Span 1 Girder 1 large spalled area with exposed steel. Span 1 Girder 3 large spalled area with exposed steel with section loss. Span 2 Girder 3 spalled area with exposed steel with some section loss. Span 2 girder 2 small spall with exposed steel. Span 2 Girder 1 has a 3' spall @ mid span.

#### Work Description:

Date Repairs Completed: 04/12/2016

Maintenance Comments:

Stage: Forward Local



PHOTO 1      Description      Span 1 girder 1 spall with exposed steel.

Stage: Forward Local



PHOTO 2      Description      Span 1 girder 3, spall with exposed steel.

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### Maintenance Needs

Stage: Forward Local



PHOTO 3      Description      Span 2 girder 3, spall with exposed steel.

Stage: Forward Local



PHOTO 4      Description      Span 2 Girder 1 has a 3' spall @ mid span.



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### Maintenance Needs

Date Reported: 04/25/2018

Priority: D - Routine

Work Code:

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Deficiency Description:

Abutment 1 Lt. Br. Rail has collision damage to the 1st and 2nd posts.

Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Open



PHOTO 1      Description      Rail damage left side