

Bridge Inspection Report

02158
US 71 Benton 1
over
PINION CR



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

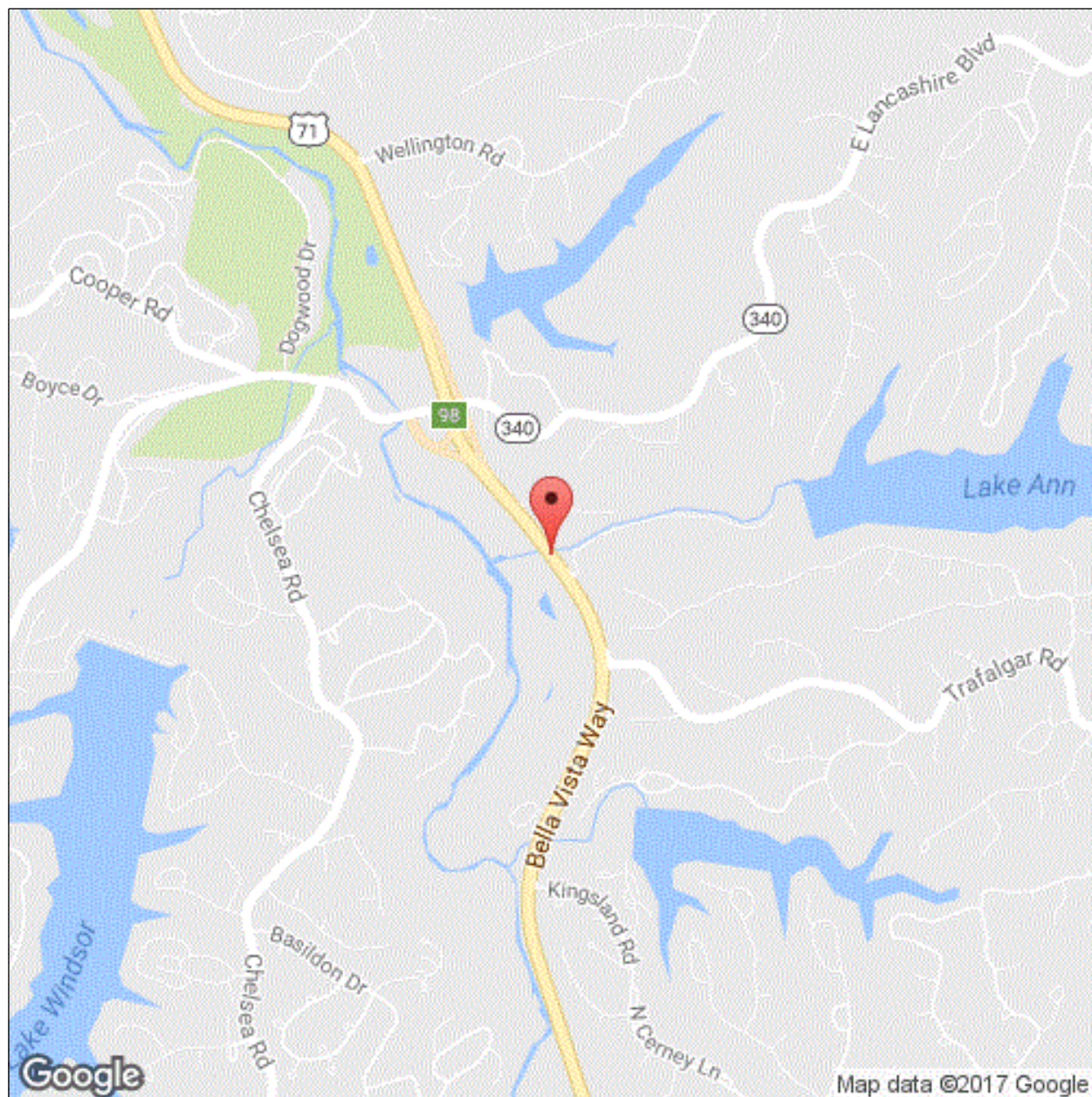
Structure Number: 02158

Inspection Date:

Facility Carried: US 71 Benton 1

Bridge Inspection Report

Location Map



Latitude: 36.47097

Longitude: -94.24398

Inspector:

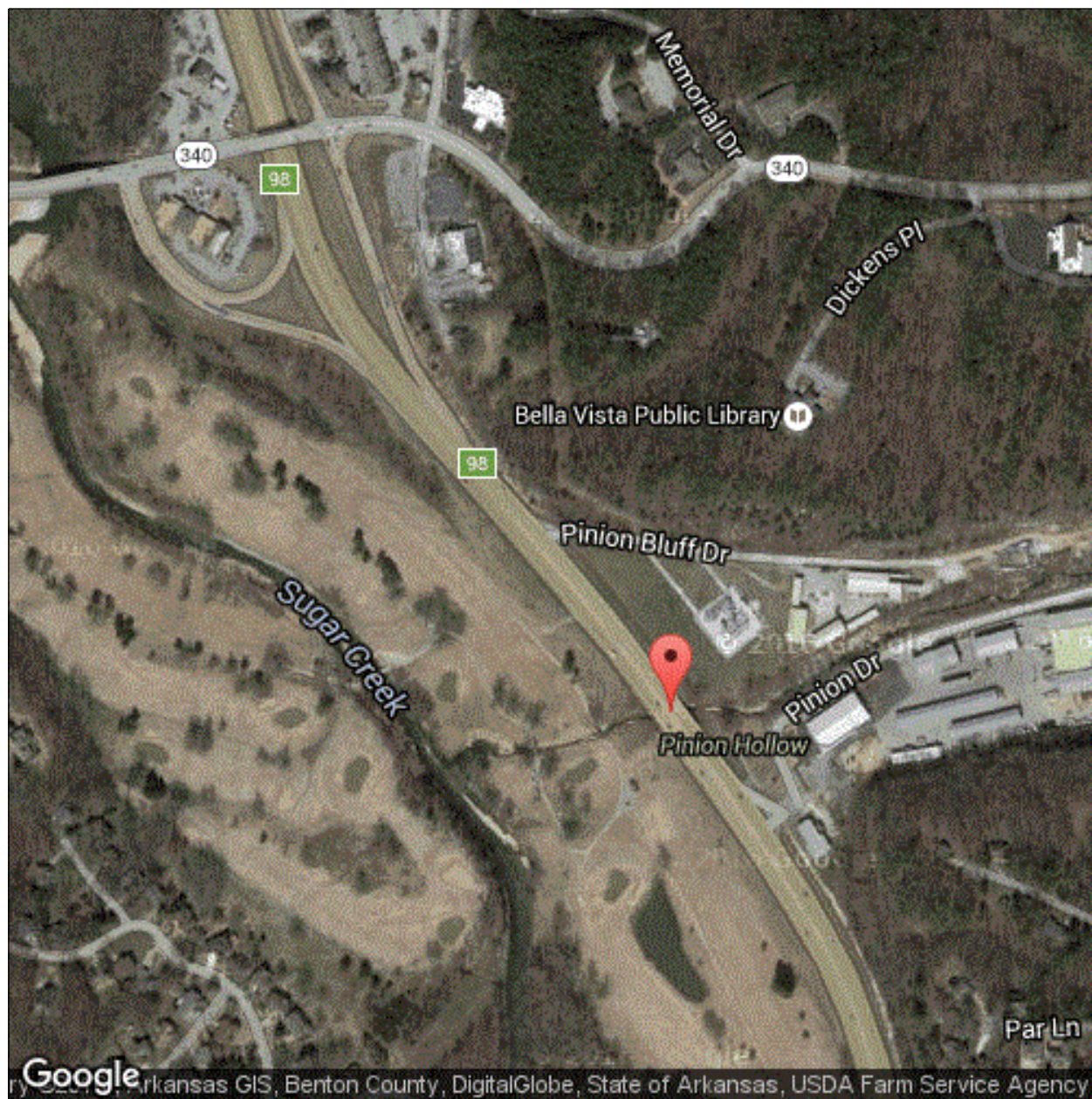
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Location Map



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Bridge Inspection Report

Executive Summary

Logged South to North.

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	05/24/2018
(8) STRUCTURE NUMBER	02158	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 71 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY 09	(3) COUNTY CODE 007	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	PINION CR	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 71 Benton 1	CONDITION	
(9) LOCATION	.25 MI S JCT SH 340-US 71	(58) DECK	5
(11) MILEPOINT 4.47	(12) BASE HIGHWAY NETWORK 1	(59) SUPERSTRUCTURE 5	(60) SUBSTRUCTURE 7
(13A) LRS INVENTORY ROUTE 0000071190	(13B) SUBROUTE NUMBER 00	(61) CHANNEL & CHANNEL PROTECTION 7	(62) CULVERT N
(16) LATITUDE 36.47097	(17) LONGITUDE -94.24398	LOAD RATING AND POSTING	
(98A) BORDER BRIDGE CODE		(31) DESIGN LOAD	5
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT	(63) METHOD USED TO DETERMINE OPERATING RATING	1
STRUCTURE TYPE AND MATERIAL		(64) OPERATING RATING	58.0
(43) STRUCTURE TYPE, MAIN		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
A) KIND OF MATERIAL/DESIGN: 1 - Concrete		(66) INVENTORY RATING	35
B) TYPE OF DESIGN/CONSTR: 01 - Slab		(70) BRIDGE POSTING	5
(44) STRUCTURE TYPE, APPROACH SPANS		(41) STRUCTURE OPEN/POSTED/CLOSED	A
A) KIND OF MATERIAL/DESIGN: 0 - Other		APPRAISAL	
B) TYPE OF DESIGN/CONSTR: 00 - Other		(67) STRUCTURAL EVALUATION	5
(45) NUMBER OF SPANS IN MAIN 3	(46) NUMBER OF APPROACH 0	(68) DECK GEOMETRY	9
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 1	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0	(71) WATERWAY ADEQUACY	8
AGE OF SERVICE		(72) APPROACH ROADWAY ALIGNMENT	8
(27) YEAR BUILT 1940	(106) YEAR RECONSTRUCTED 1976	(36) TRAFFIC SAFETY FEATURE	
(42) TYPE OF SERVICE ON 1 UNDER 5		36A) BRIDGE RAILINGS:	1
(28) LANES ON 04 UNDER 00		36B) TRANSITIONS:	0
(29) AVERAGE DAILY TRAFFIC 35000	(19) BYPASS DETOUR LENGTH 10	36C) APPROACH GUARDRAIL:	0
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		36D) APPROACH GUARDRAIL ENDS:	0
(109) AVERAGE DAILY TRUCK TRAFFIC 1		(113) SCOUR CRITICAL BRIDGES	5
GEOMETRIC DATA		SUFFICIENCY RATING	70.8 STATUS 0
(48) LENGTH OF MAX SPAN (ft.) 32	(49) STRUCTURE LENGTH (ft.) 94	CLASSIFICATION	
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(112) NBIS BRIDGE LENGTH	Y
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	86.9	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(52) DECK WIDTH, OUT-TO-OUT (ft.)	90	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
(32) APPROACH ROADWAY WIDTH (ft.)	71.9	(100) STRAHNET HIGHWAY DESIGNATION	2
(33) BRIDGE MEDIAN 2	(34) SKEW (DEG.) 30	(101) PARALLEL STRUCTURE DESIGNATION	N
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	(102) DIRECTION OF TRAFFIC	2
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	87.9	(103) TEMP STRUCTURE	
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	(105) FEDERAL LANDS HIGHWAYS	0
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	(110) DESIGNATED NATIONAL NETWORK	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(20) TOLL	3
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	(21) MAINTENANCE RESPONSIBILITY	01
PROPOSED IMPROVEMENTS		(22) OWNER	01
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(37) HISTORICAL	5
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0	NAVIGATION DATA	
(94) BRIDGE IMPROVEMENT COST (\$)	0	(38) NAVIGATION CONTROL	0
(95) ROADWAY IMPROVEMENT COST (\$)	0	(111) PIER OR ABUTMENT PROTECTION	1
(96) TOTAL PROJECT COST	0	(39) NAV VERT CLEARANCE (ft.)	0
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
(114) FUTURE ADT 47950	(115) YEAR OF FUTURE ADT 2028	(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
38 - Reinforced Concrete Slab	1- Ben.	8178	sq. ft.	3351	3452	1375	0
	05/24/2018: DECK 16.81% spalled or repaired area of total deck area. The underside of the deck in span #3 at left drain areas and at ahead side of bent #2 between columns 4 and 5 have shallow spalls with rebar exposed.						
1080 - Delamination/Spall/Patched Area		1375		0	0	1375	0
1130 - Cracking (RC and Other)		3452		0	3452	0	0
205 - Reinforced Concrete Column	1- Ben.	16	each	16	0	0	0
	05/24/2018: Some minor spalling with rebar exposed. But allows for CS 1. 5" of exposed steel piling at column #2 of bent #1.						
234 - Reinforced Concrete Pier Cap	1- Ben.	428	ft.	416	12	0	0
	05/24/2018: Caps have shallow spalls with rebar exposed at various locations.						
1090 - Exposed Rebar		12		0	12	0	0
301 - Pourable Joint Seal	1- Ben.	304	ft.	0	0	156	148
	05/24/2018: Joint seals are leaking onto caps and abutments but are less than free flow of water.						
2310 - Leakage		156		0	0	156	0
2320 - Seal Adhesion		148		0	0	0	148
321 - Reinforced Concrete Approach Slab	1- Ben.	4608	sq. ft.	598	3138	872	0
	05/24/2018: All four approach slabs were heavily cracked.						
1080 - Delamination/Spall/Patched Area		872		0	0	872	0
1130 - Cracking (RC and Other)		3138		0	3138	0	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	188	ft.	0	188	0	0
	05/24/2018: Entire outside face of bridge railing is map cracked along both sides of structure.						
1130 - Cracking (RC and Other)		188		0	188	0	0

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Bridge Inspection Report

Pictures

PHOTO 1

Description 2012 Channel Sounding

PHOTO 1

Description Deck Spall/Repaired Areas

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Pictures

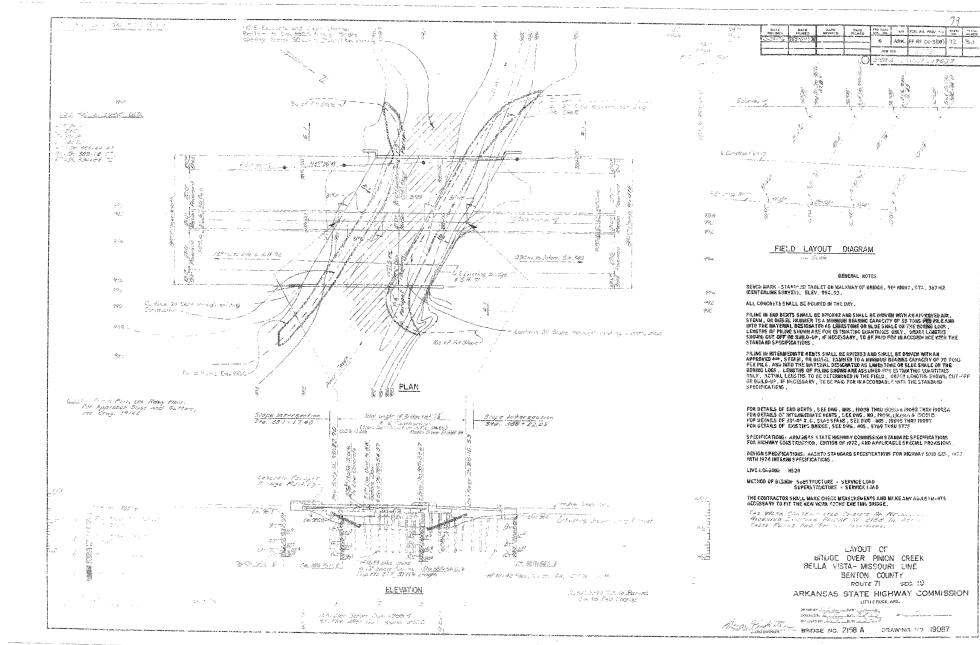
PHOTO 1
Description

PHOTO 2
Description

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Pictures



Description

Description

Inspector:

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Facility Carried: US 71 Benton 1

Bridge Inspection Report

Pictures

PHOTO 4

Description

Inspector:

Inspection Date:

Structure Number: 02158

Facility Carried: US 71 Benton 1

Bridge Inspection Report

Sketches

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 5/8/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Bents #1, #2

Spalls with rebar exposed on caps and columns.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Spall with rebar exposed at ahead side of bent #2 upper right corner.

Stage: Monitor



PHOTO 2 Description

Inspector:

Structure Number: 02158

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Bridge Inspection Report

Maintenance Needs

Date Reported: 05/18/2016

Priority: D - Routine

Work Code:

Deficiency Description:

5" of steel pile exposed at column 2 of bent #1 at ground level.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description Bent 1 column 2 ahead side steel piling visible.

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Maintenance Needs

Date Reported: 05/18/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Spalls with rebar exposed at left drain areas in span #3.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description Span 3 left spalling around deck drains typical

Affected Area : Create Report Section.
Section Name : Table of Contents
Section Type : TOC
Detailed Message : Object reference not set to an instance of an
object.