

Bridge Inspection Report

07248

SH 5 Baxter

over

N Fk, White River; Prosp



Inspection Date:

Inspected By:

Inspection Type(s):

TABLE OF CONTENTS

	PAGE NUMBER
LOCATION MAP	3
NATIONAL BRIDGE INVENTORY	7
ELEMENTS	8
PICTURES	10
SKETCHES	13

Inspector:

Structure Number: 07248

Inspection Date:

Facility Carried: SH 5 Baxter

Bridge Inspection Report

Location Map



Latitude: 36.21234651232064

Longitude: -92.28627184563066

Inspector:

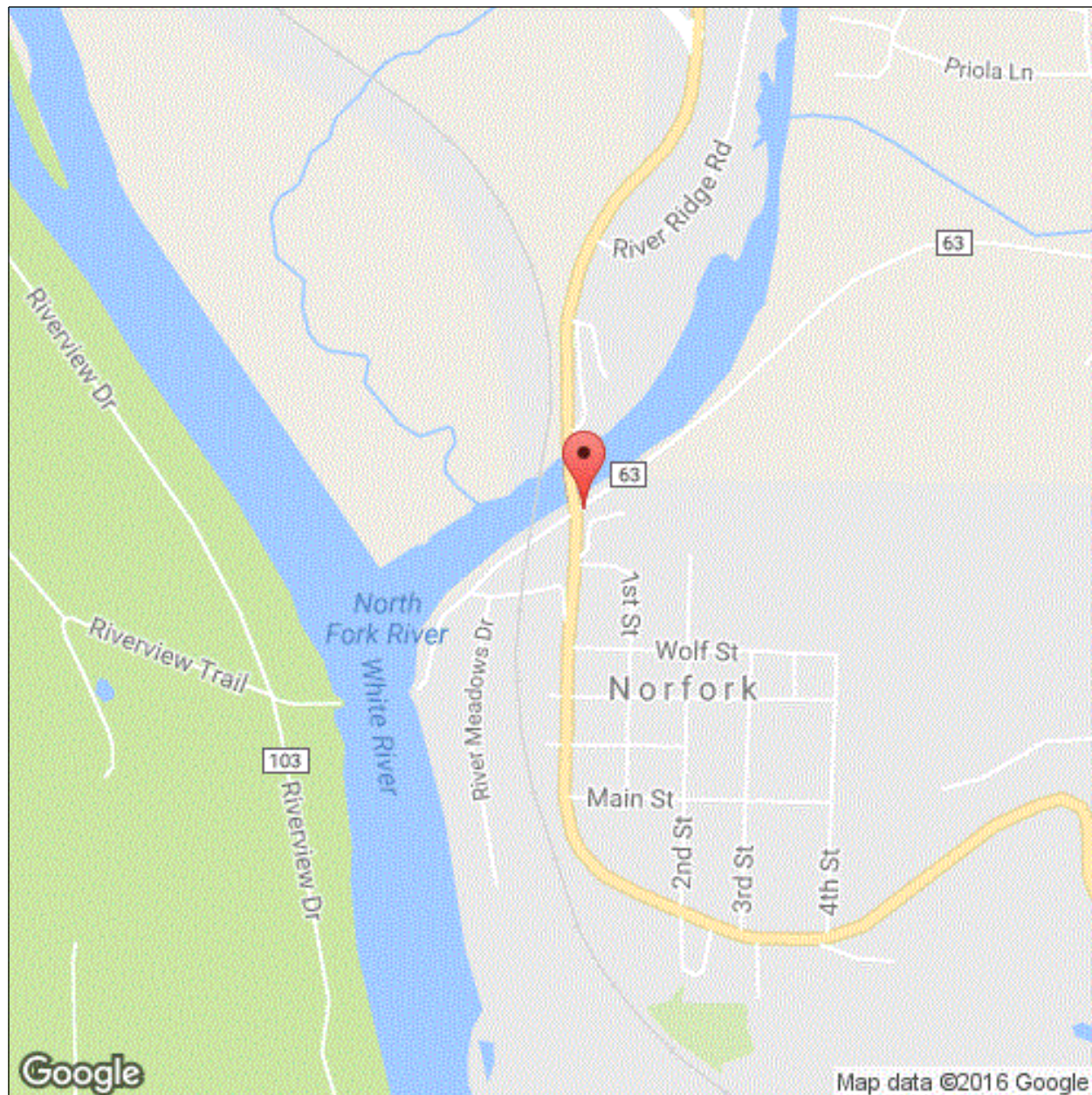
Structure Number: 07248

Inspection Date:

Facility Carried: SH 5 Baxter

Bridge Inspection Report

Location Map



Latitude: 36.21234651232064

Longitude: -92.28627184563066

Inspector:

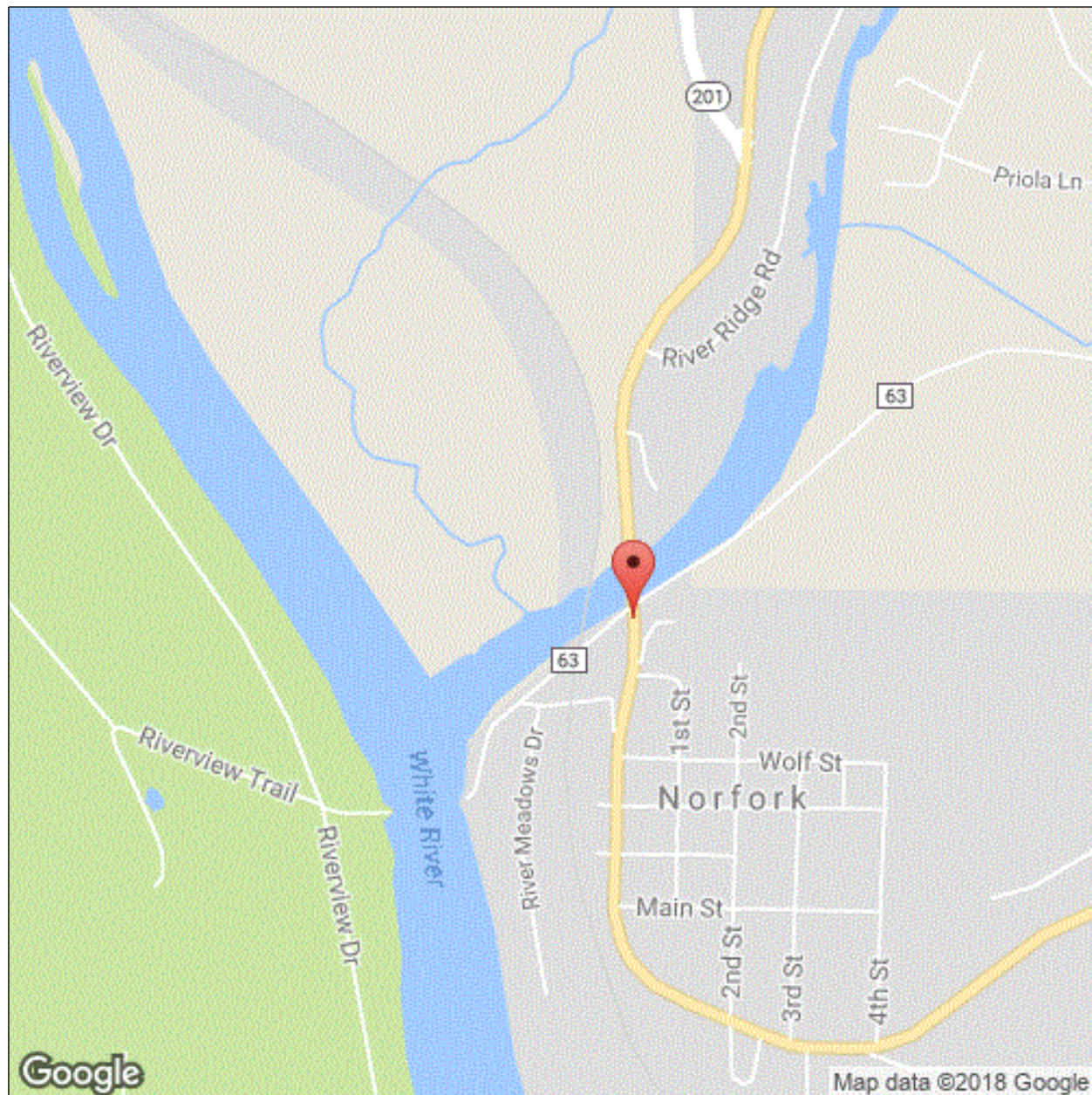
Structure Number: 07248

Inspection Date:

Facility Carried: SH 5 Baxter

Bridge Inspection Report

Location Map



Latitude: 36.21234651232064

Longitude: -92.28627184563066

Inspector:

Structure Number: 07248

Inspection Date:

Facility Carried: SH 5 Baxter

Bridge Inspection Report

Executive Summary

Structure is logged from South to North, and is accessible with a snoopers only.
Initial inspection was performed on 7/31/14.

Item 113 changed from U to 5. New designed bridge, see FORM 113, dated 5/11, on file in bridge division room 901. DMH 8/18/14

Sufficiency Rating Calculation Accepted by dlve523 at 2014-07-31 13:29:28

Inspector:

Structure Number: 07248

Inspection Date:

Facility Carried: SH 5 Baxter

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	04/10/2018
(8) STRUCTURE NUMBER	07248	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 5 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	09 (3) COUNTY CODE 005	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	47700	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	N Fk, White River; Prosp	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 5 Baxter		
(9) LOCATION	.5 mi. So. of Jct.SH 341	CONDITION	
(11) MILEPOINT 6.630	(12) BASE HIGHWAY NETWORK 0	(58) DECK	7
(13A) LRS INVENTORY ROUTE 0000000000	(13B) SUBROUTE NUMBER 00	(59) SUPERSTRUCTURE	8 (60) SUBSTRUCTURE 8
(16) LATITUDE 36.21234651232064	(17) LONGITUDE -92.28627184563066	(61) CHANNEL & CHANNEL PROTECTION	9 (62) CULVERT N
(98A) BORDER BRIDGE CODE		LOAD RATING AND POSTING	
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT	(31) DESIGN LOAD	A
STRUCTURE TYPE AND MATERIAL		(63) METHOD USED TO DETERMINE OPERATING RATING	3
(43) STRUCTURE TYPE, MAIN		(64) OPERATING RATING	60.0
A) KIND OF MATERIAL/DESIGN:	4 - Steel continuous	(65) METHOD USED TO DETERMINE INVENTORY RATING	3
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder	(66) INVENTORY RATING	36.0
(44) STRUCTURE TYPE, APPROACH SPANS		(70) BRIDGE POSTING	5
A) KIND OF MATERIAL/DESIGN:	0 - Other	(41) STRUCTURE OPEN/POSTED/CLOSED	A
B) TYPE OF DESIGN/CONSTR:	00 - Other	APPRAISAL	
(45) NUMBER OF SPANS IN MAIN 4	(46) NUMBER OF APPROACH 0	(67) STRUCTURAL EVALUATION	8
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 1	(68) DECK GEOMETRY	6
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 1	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	9
AGE OF SERVICE		(71) WATERWAY ADEQUACY	9
(27) YEAR BUILT 2014	(106) YEAR RECONSTRUCTED 0000	(72) APPROACH ROADWAY ALIGNMENT	8
(42) TYPE OF SERVICE ON 1	UNDER 6	(36) TRAFFIC SAFETY FEATURE	
(28) LANES ON 02	UNDER 01	36A) BRIDGE RAILINGS:	1
(29) AVERAGE DAILY TRAFFIC 2800	(19) BYPASS DETOUR LENGTH 5	36B) TRANSITIONS:	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		36C) APPROACH GUARDRAIL:	1
(109) AVERAGE DAILY TRUCK TRAFFIC 6		36D) APPROACH GUARDRAIL ENDS:	1
GEOMETRIC DATA		(113) SCOUR CRITICAL BRIDGES	5
(48) LENGTH OF MAX SPAN (ft.) 150	(49) STRUCTURE LENGTH (ft.) 550	SUFFICIENCY RATING	99.0 STATUS 0
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0	RIGHT 0	CLASSIFICATION	
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	40.0	(112) NBIS BRIDGE LENGTH	Y
(52) DECK WIDTH, OUT-TO-OUT (ft.)	43	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(32) APPROACH ROADWAY WIDTH (ft.)	25.0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	06
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 30	(100) STRAHNET HIGHWAY DESIGNATION	0
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	(101) PARALLEL STRUCTURE DESIGNATION	N
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	41.0	(102) DIRECTION OF TRAFFIC	2
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	(103) TEMP STRUCTURE	
(54) VERTICAL UNDER CLEARANCE (ft.)	H 56.60	(105) FEDERAL LANDS HIGHWAYS	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H 99.9	(110) DESIGNATED NATIONAL NETWORK	1
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	(20) TOLL	3
PROPOSED IMPROVEMENTS		(21) MAINTENANCE RESPONSIBILITY	01
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(22) OWNER	01
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0	(37) HISTORICAL	4
(94) BRIDGE IMPROVEMENT COST (\$)	0	NAVIGATION DATA	
(95) ROADWAY IMPROVEMENT COST (\$)	0	(38) NAVIGATION CONTROL	0
(96) TOTAL PROJECT COST	0	(111) PIER OR ABUTMENT PROTECTION	1
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(39) NAV VERT CLEARANCE (ft.)	0
(114) FUTURE ADT 4200	(115) YEAR OF FUTURE ADT 2032	(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
		(40) NAV HORIZONTAL CLEARANCE (ft.)	0

Inspector:

Structure Number: 07248

Inspection Date:

Facility Carried: SH 5 Baxter

Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	23650	sq. ft.	22023	1627	0	0
<p>The driving surface of the deck has a tined finish that is showing very little wear.</p> <p>All spans have sealable transverse cracking with some longitudinal cracking present, most transverse cracking is in the gutter lines. The total cracking for the deck is 1,627'.</p> <p>The pourable construction joint sealant is beginning to lose adhesion at some locations and is leaking.</p> <p>Under surface-</p> <p>The left and right deck overhangs have very minor transverse cracking, the cracks are beginning to show signs of minor efflorescence.</p> <p>The undersurface of the deck has sip forms in all bays.</p>							
1130 - Cracking (RC and Other)		1627		0	1627	0	0
107 - Steel Open Girder/Beam	1- Ben.	2750	ft.	2738	12	0	0
<p>The weathering steel patina is functioning as intended. The protective system total includes the diaphragms by the 10% method. The visible beam size is 58.5" tall x 16" wide flange, the flanges widen to 20" over the piers.</p> <p>Span #1- The bottom flanges have minor distortion for 3' each on girders # 2,3,4,5 located 30' back of abutment #1.</p> <p>Span #2- leakage under the construction joints is causing a darkening of the weathering steel patina in two locations. No corrosion has formed yet.</p> <p>Span #3- no deficiencies noted.</p> <p>Span #4- no deficiencies noted.</p>							
1900 - Distortion		12		0	12	0	0
515 - Steel Protective Coating		41593	sq. ft.	41593	0	0	0
205 - Reinforced Concrete Column	1- Ben.	6	each	6	0	0	0
<p>Pier #1 columns- no deficiencies noted. No evidence of scour was noted.</p> <p>Pier #2 columns- no deficiencies noted. No evidence of scour was noted.</p> <p>Pier #3 columns- no deficiencies noted. No evidence of scour was noted.</p>							
215 - Reinforced Concrete Abutment	1- Ben.	96	ft.	82	14	0	0
<p>Abutment #1- has 14' total of vertical cracking in the back wall and bridge seat. Some cracks are beginning to leach efflorescence.</p> <p>Abutment #2- no deficiencies noted.</p>							

Inspector:

Structure Number: 07248

Inspection Date:

Facility Carried: SH 5 Baxter

Bridge Inspection Report

Element Inspection

1130 - Cracking (RC and Other)		14		0	14	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	141	ft.	141	0	0	0
<p>Pier cap #1- no deficiencies noted. The pier cap has a heavy painted coating.</p> <p>Pier cap #2- no deficiencies noted. The pier cap has a heavy painted coating.</p> <p>Pier cap #3- no deficiencies noted. The pier cap has a heavy painted coating.</p>							
310 - Elastomeric Bearing	1- Ben.	25	each	25	0	0	0
<p>Abutment #1 bearings- No deficiencies noted.</p> <p>Pier #1 bearings- No deficiencies noted.</p> <p>Pier #2 bearings- No deficiencies noted. One of the anchor bolt sleeves is not/cannot be installed at girder #3 on the left side due to the diaphragm being above the anchor bolt. This condition has existed since construction.</p> <p>Pier #3 bearings- No deficiencies noted.</p> <p>Abutment #2 bearings- No deficiencies noted.</p>							
331 - Reinforced Concrete Bridge Railing	1- Ben.	1100	ft.	863	237	0	0
<p>Right side-</p> <p>The right side parapet has 99' of vertical hairline cracks at the corners of the drain areas and at random locations through out the parapet wall.</p> <p>Left side-</p> <p>The left side parapet has 138' of vertical hairline cracks at the corners of the drain areas and at random locations throughout the parapet wall.</p>							
1130 - Cracking (RC and Other)		237		0	237	0	0

Inspector:

Inspection Date:

Structure Number: 07248

Facility Carried: SH 5 Baxter

Bridge Inspection Report

Pictures

PHOTO 1

Description 07248 Sounding

PHOTO 1

Description

Inspector:

Inspection Date:

Structure Number: 07248

Facility Carried: SH 5 Baxter

Bridge Inspection Report

Pictures

PHOTO 1

Description

PHOTO 2

Description

Inspector:

Inspection Date:

Structure Number: 07248

Facility Carried: SH 5 Baxter

Bridge Inspection Report

Pictures

PHOTO 3

Description

Inspector:

Inspection Date:

Structure Number: 07248

Facility Carried: SH 5 Baxter

Bridge Inspection Report

Sketches

Inspector:

Structure Number: 07248

Inspection Date:

Facility Carried: SH 5 Baxter

Bridge Inspection Report

Maintenance Needs

Date Reported: 07/21/2016

Priority: D - Routine

Work Code:

Deficiency Description:

The ending log mile sign at the North end of the structure is missing. Should read 6.63.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 04/10/2018

Priority: D - Routine

Work Code:

Deficiency Description:

The driving surface of the deck has sealable transverse and longitudinal cracking in all spans.

Work Description:

Date Repairs Completed:

Maintenance Comments:
