

Bridge Inspection Report

02942

US 70B WB log 1.93

over

GULPHA CREEK



Inspection Date:

Inspected By:

Inspection Type(s):

TABLE OF CONTENTS

	PAGE NUMBER
LOCATION MAP	3
NATIONAL BRIDGE INVENTORY	8
ELEMENTS	9
PICTURES	10
SKETCHES	11

Inspector:

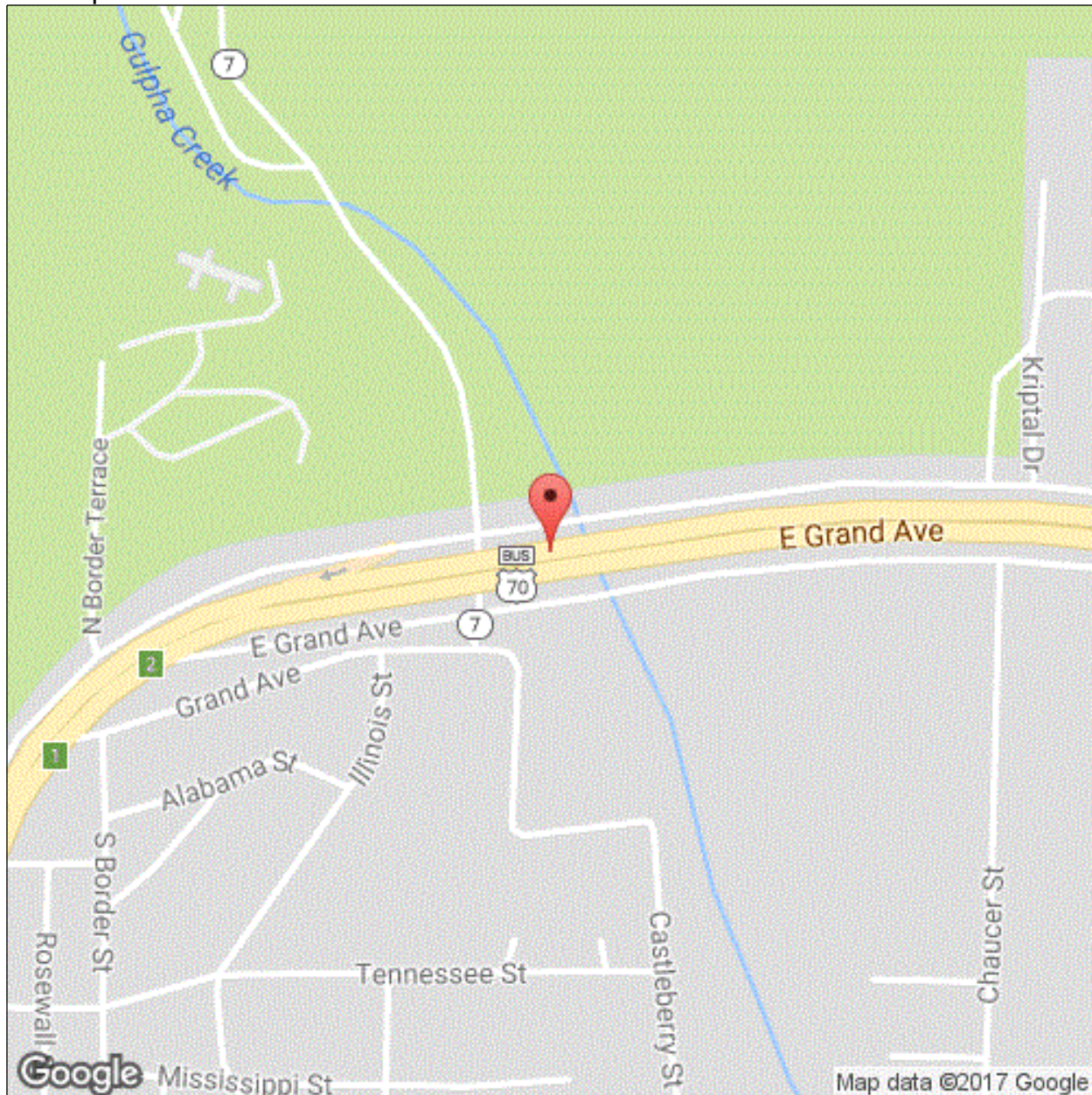
Inspection Date:

Structure Number: 02942

Facility Carried: US 70B WB log
1.93

Bridge Inspection Report

Location Map



Latitude: 34.51922

Longitude: -93.03261

Inspector:

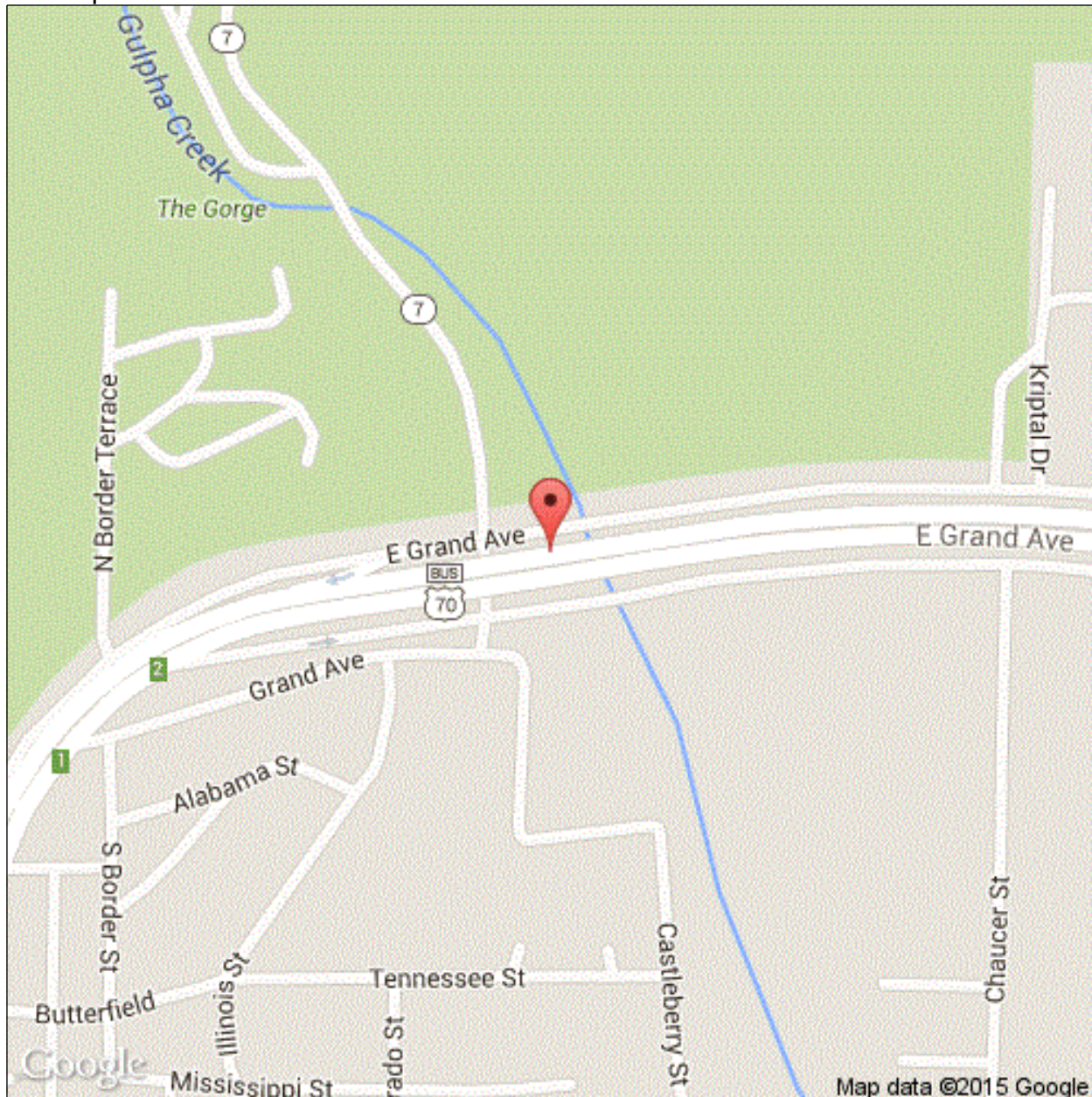
Inspection Date:

Structure Number: 02942

Facility Carried: US 70B WB log
1.93

Bridge Inspection Report

Location Map



Latitude: 34.51922

Longitude: -93.03261

Inspector:

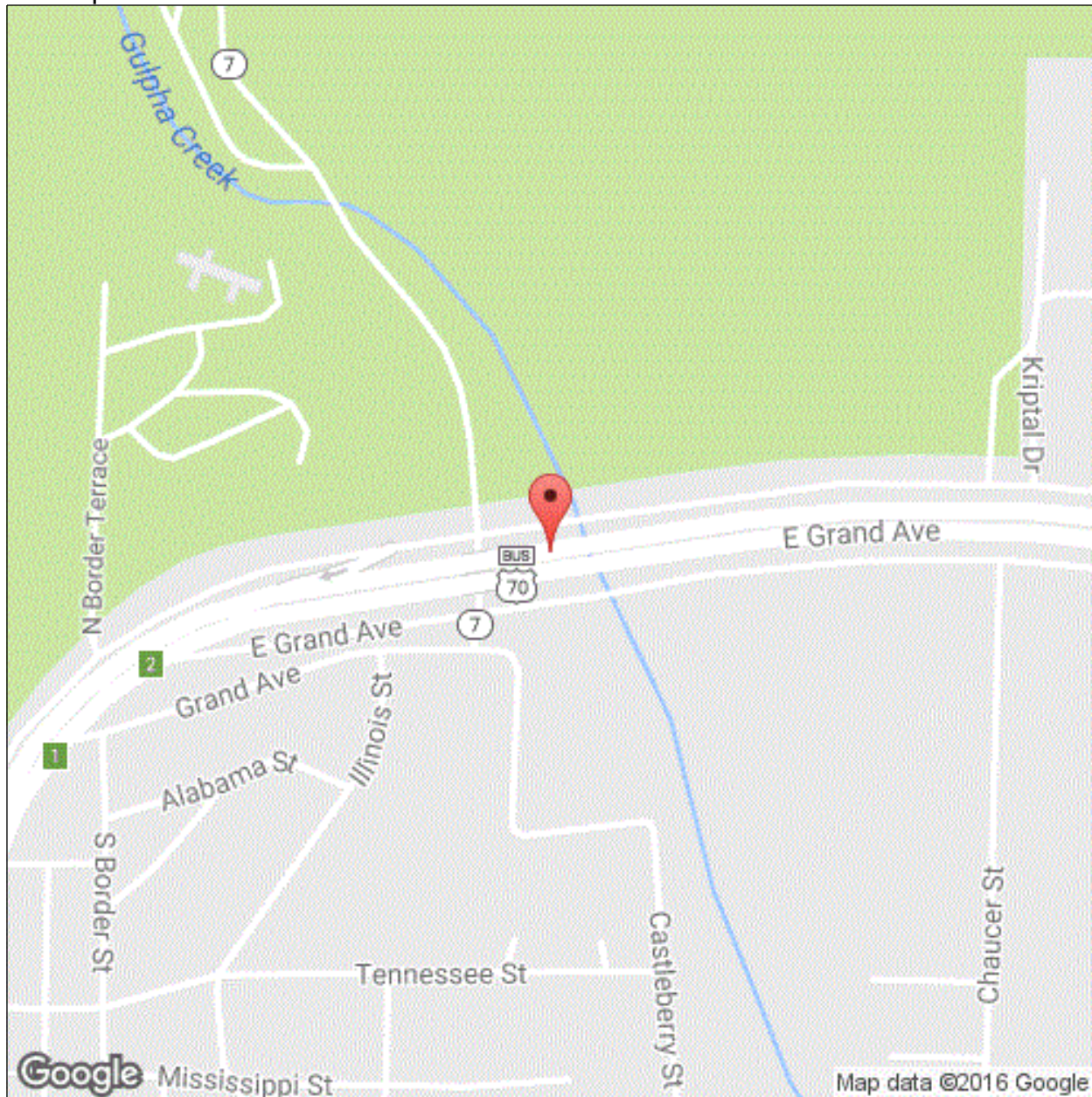
Inspection Date:

Structure Number: 02942

Facility Carried: US 70B WB log
1.93

Bridge Inspection Report

Location Map



Latitude: 34.51922

Longitude: -93.03261

Inspector:

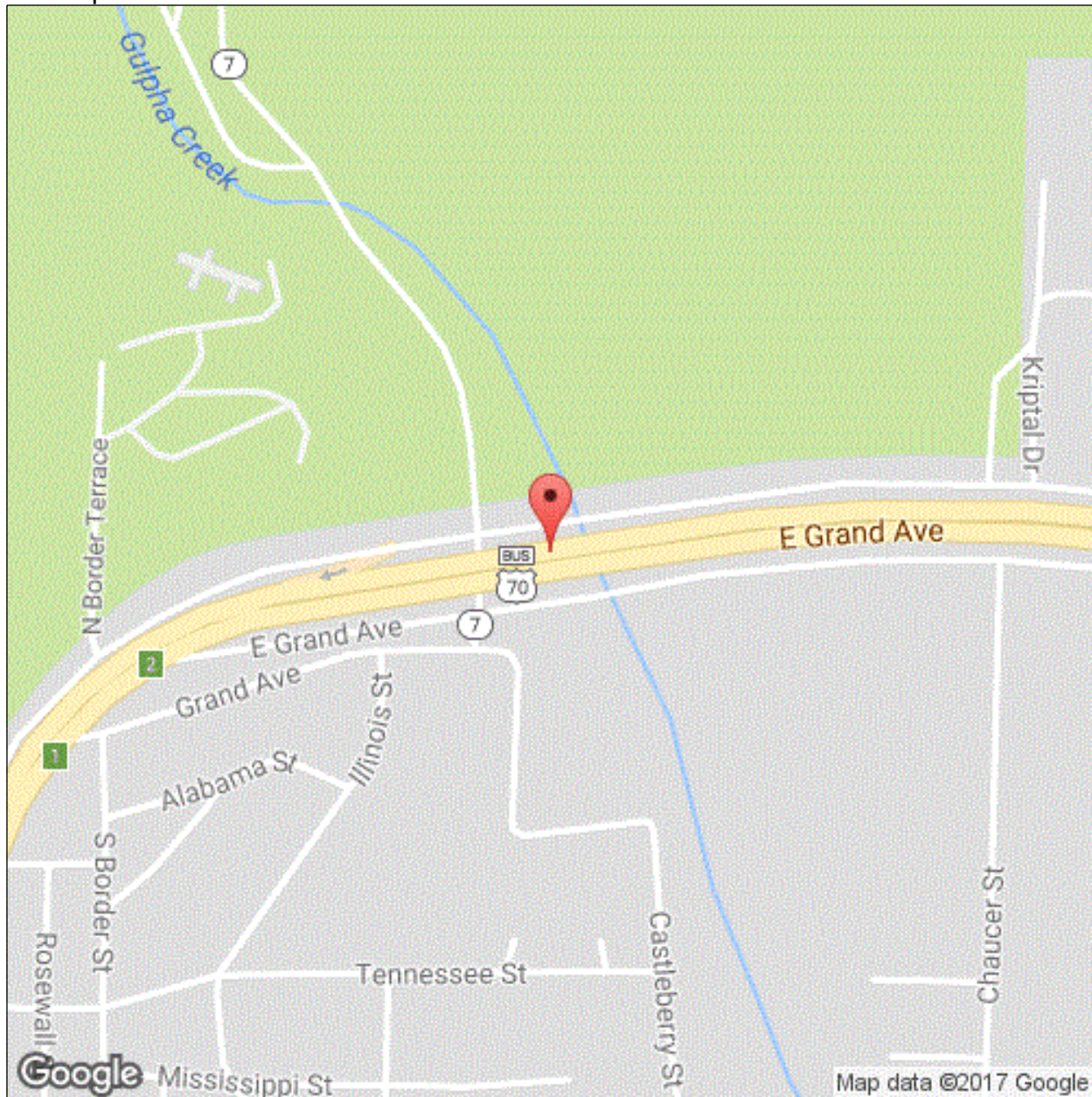
Inspection Date:

Structure Number: 02942

Facility Carried: US 70B WB log
1.93

Bridge Inspection Report

Location Map



Latitude: 34.51922

Longitude: -93.03261

Inspector:

Inspection Date:

Structure Number: 02942

Facility Carried: US 70B WB log
1.93

Bridge Inspection Report

Executive Summary

job 6616 dwg 8978

Inspector:

Structure Number: 02942

Inspection Date:

Facility Carried: US 70B WB log
1.93

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION				INSPECTIONS			
(1) STATE CODE	056 - Arkansas			(90) INSPECTION DATE	08/22/2016		
(8) STRUCTURE NUMBER	02942			(91) DESIGNATED INSPECTION FREQUENCY	24		
(5) INV. ROUTE (ON/UNDER)	1	2	6	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE		
(2) HIGHWAY AGENCY	06	(3) COUNTY CODE	051	A. FRACTURE CRITICAL DETAIL	N		
(4) PLACE CODE	32540			B. UNDERWATER INSPECTION	N		
(6) FEATURES INTERSECTED	GULPHA CREEK			C. OTHER SPECIAL	Y	24	08/07/2017
(7) FACILITY CARRIED	US 70B WB log 1.93			CONDITION			
(9) LOCATION	1.93 MI E JCT OF SH 7			(58) DECK	6		
(11) MILEPOINT 1.930	(12) BASE HIGHWAY NETWORK 1			(59) SUPERSTRUCTURE	4	(60) SUBSTRUCTURE	6
(13A) LRS INVENTORY ROUTE	000007009B (13B) SUBROUTE NUMBER 00			(61) CHANNEL & CHANNEL PROTECTION	7	(62) CULVERT	N
(16) LATITUDE	34.51922	(17) LONGITUDE	-93.03261	LOAD RATING AND POSTING			
(98A) BORDER BRIDGE CODE				(31) DESIGN LOAD	4		
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT			(63) METHOD USED TO DETERMINE OPERATING RATING	1		
STRUCTURE TYPE AND MATERIAL				(64) OPERATING RATING	60.0		
(43) STRUCTURE TYPE, MAIN				(65) METHOD USED TO DETERMINE INVENTORY RATING	1		
A) KIND OF MATERIAL/DESIGN:	3 - Steel			(66) INVENTORY RATING	36.0		
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder			(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	4		
(45) NUMBER OF SPANS IN MAIN	4	(46) NUMBER OF APPROACH	0	(68) DECK GEOMETRY	3		
(107) DECK STRUCTURE TYPE	1	(108A) WEARING SURFACE	6	(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	1958	(106) YEAR RECONSTRUCTED	0000	(36) TRAFFIC SAFETY FEATURE			
(42) TYPE OF SERVICE	ON 1	UNDER 5		36A) BRIDGE RAILINGS:	0		
(28) LANES	ON 02	UNDER 00		36B) TRANSITIONS:	0		
(29) AVERAGE DAILY TRAFFIC	7550	(19) BYPASS DETOUR LENGTH	1	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	8		
GEOMETRIC DATA				SUFFICIENCY RATING	1	STATUS	49.5
(48) LENGTH OF MAX SPAN (ft.)	55	(49) STRUCTURE LENGTH (ft.)	222	CLASSIFICATION			
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 2	RIGHT 2		(112) NBIS BRIDGE LENGTH	Y		
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	27.9			(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1		
(52) DECK WIDTH, OUT-TO-OUT (ft.)	33.6			(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	12		
(32) APPROACH ROADWAY WIDTH (ft.)	34.1			(100) STRAHNET HIGHWAY DESIGNATION	0		
(33) BRIDGE MEDIAN	0	(34) SKEW (DEG.)	0	(101) PARALLEL STRUCTURE DESIGNATION	L		
(35) STRUCTURE FLARED	0	(10) INV RTE, MIN VERT CLEAR (ft.)	99.99	(102) DIRECTION OF TRAFFIC	1		
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	30.8			(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	31	(75B) WORK DONE BY	1	(37) HISTORICAL	5		
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	256.0			NAVIGATION DATA			
(94) BRIDGE IMPROVEMENT COST (\$)	0			(38) NAVIGATION CONTROL	0		
(95) ROADWAY IMPROVEMENT COST (\$)	190			(111) PIER OR ABUTMENT PROTECTION	1		
(96) TOTAL PROJECT COST	760			(39) NAV VERT CLEARANCE (ft.)	0		
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2003			(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0		
(114) FUTURE ADT	3286	(115) YEAR OF FUTURE ADT	2028	(40) NAV HORIZONTAL CLEARANCE (ft.)	0		

Inspector:

Structure Number: 02942

Inspection Date:

Facility Carried: US 70B WB log
1.93

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.	6820	sq. ft.	6134	686	0	0
	Soffit has cracks with efflorescence and small spalls in the deck haunches. Asphalt wearing surface has large cracks and patches at the joints.						
1080 - Delamination/Spall/Patched Area		4			4		
1130 - Cracking (RC and Other)		682			682		
510 - Wearing Surfaces		6160	sq. ft.	5037	1123	0	0
3210 - Delamination/Spall/Patched Area/Pothole (Wearing Surfaces)		23			23		
3220 - Crack (Wearing Surface)		1100			1100		
107 - Steel Open Girder/Beam	1- Ben.	1100	ft.	608	482	10	0
	Beam1, span 1 at bent 2 has pitting to 3/16 inch deep on the web and bottom flange. Span 2, beams 1&2 have pitting to 1/8 inch on the web and bottom flanges, span 4 beam 1 at bent 5 has pitting to 3/16 inch deep on the end of the web. Beams 2,3&4 in all spans have active rust on the flanges and webs. The beam ends were repainted 11/01/09 by HBM.						
1000 - Corrosion		492			482	10	
515 - Steel Protective Coating		9900	sq. ft.	360	3500	4770	1270
3440 - Effectiveness (Steel Protective Coatings)		9540			3500	4770	1270
205 - Reinforced Concrete Column	1- Ben.	6	each	5	1	0	0
	Bent 3, column 1, the top of the footing is exposed.						
6000 - Scour		1			1		
215 - Reinforced Concrete Abutment	1- Ben.	76	ft.	76			
234 - Reinforced Concrete Pier Cap	1- Ben.	87	ft.	66	20	1	0
	Cap at bents 3,4 have spalls with rebar exposed.						
1080 - Delamination/Spall/Patched Area		7			7		
1090 - Exposed Rebar		10			9	1	
1130 - Cracking (RC and Other)		4			4		
311 - Movable Bearing	1- Ben.	20	each	0	16	4	0
	All bearings beginning to rust and have rotation . Span 1 bearings under girders 1,2,4 and 5 has up to 3/8 inch gap around bearing pin.						
1000 - Corrosion		16			16		
1020 - Connection		4				4	
313 - Fixed Bearing	1- Ben.	20	each	10	10	0	0
	Bearings at bents 2 and 3 have minor rust						
1000 - Corrosion		10			10		
333 - Other Bridge Railing	1- Ben.	440	ft.	220	220	0	0
	The metal rail has active surface rust.						
1000 - Corrosion		220			220		

Inspector:

Inspection Date:

Structure Number: 02942

Facility Carried: US 70B WB log
1.93

Bridge Inspection Report

Pictures

Inspector:

Inspection Date:

Structure Number: 02942

Facility Carried: US 70B WB log
1.93

Bridge Inspection Report

Sketches

Inspector:

Inspection Date:

Structure Number: 02942

Facility Carried: US 70B WB log
1.93

Bridge Inspection Report

Maintenance Needs

Date Reported: 08/22/2016

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Painted system is falling. Beam ends have pitting to 3/16 inch deep at the ends. Section loss that has been painted over but beginning to rust

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Painted over section loss on beams with minor rust

Stage: Monitor



PHOTO 2 Description Span4 beam 1 pitting to web and bottom flange up to 3/16".

Inspector:

Inspection Date:

Structure Number: 02942

Facility Carried: US 70B WB log
1.93

Bridge Inspection Report

Maintenance Needs

Date Reported: 08/22/2016

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Span 1 bearings under girders 1,2,4 and 5 has up to 3/8 inch gap around bearing pin

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Span 1 bearings under girders 1,2,4 and 5 has up to 3/8 inch gap around bearing pin