

# Bridge Inspection Report

**A2943**

**US 70B EB Log 3.5**

**over**

**Br. GulphaCrk, McClendon**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

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Inspector:

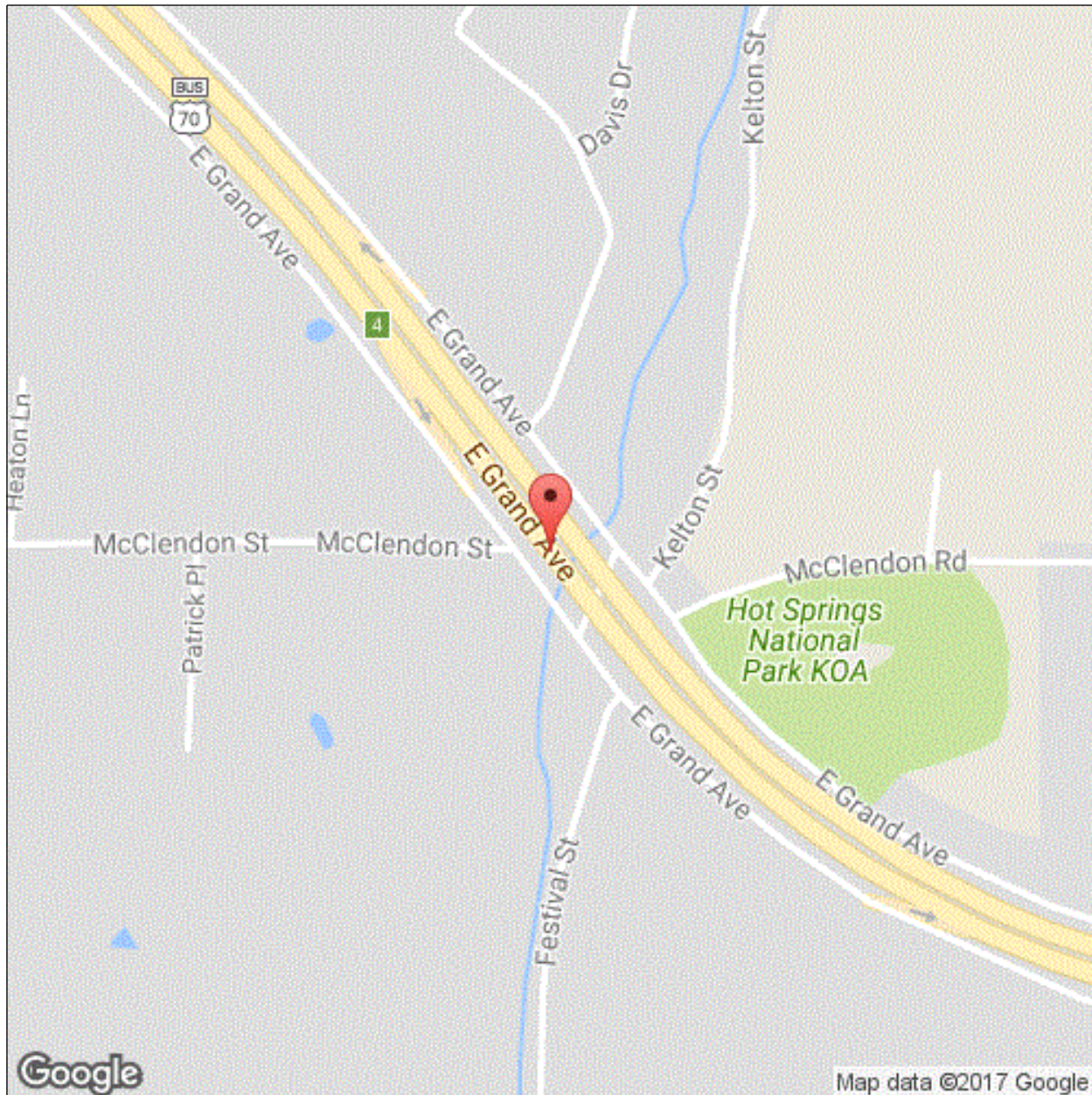
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## Bridge Inspection Report

### Location Map



Latitude: 34.50842

Longitude: -93.00970



Inspector:

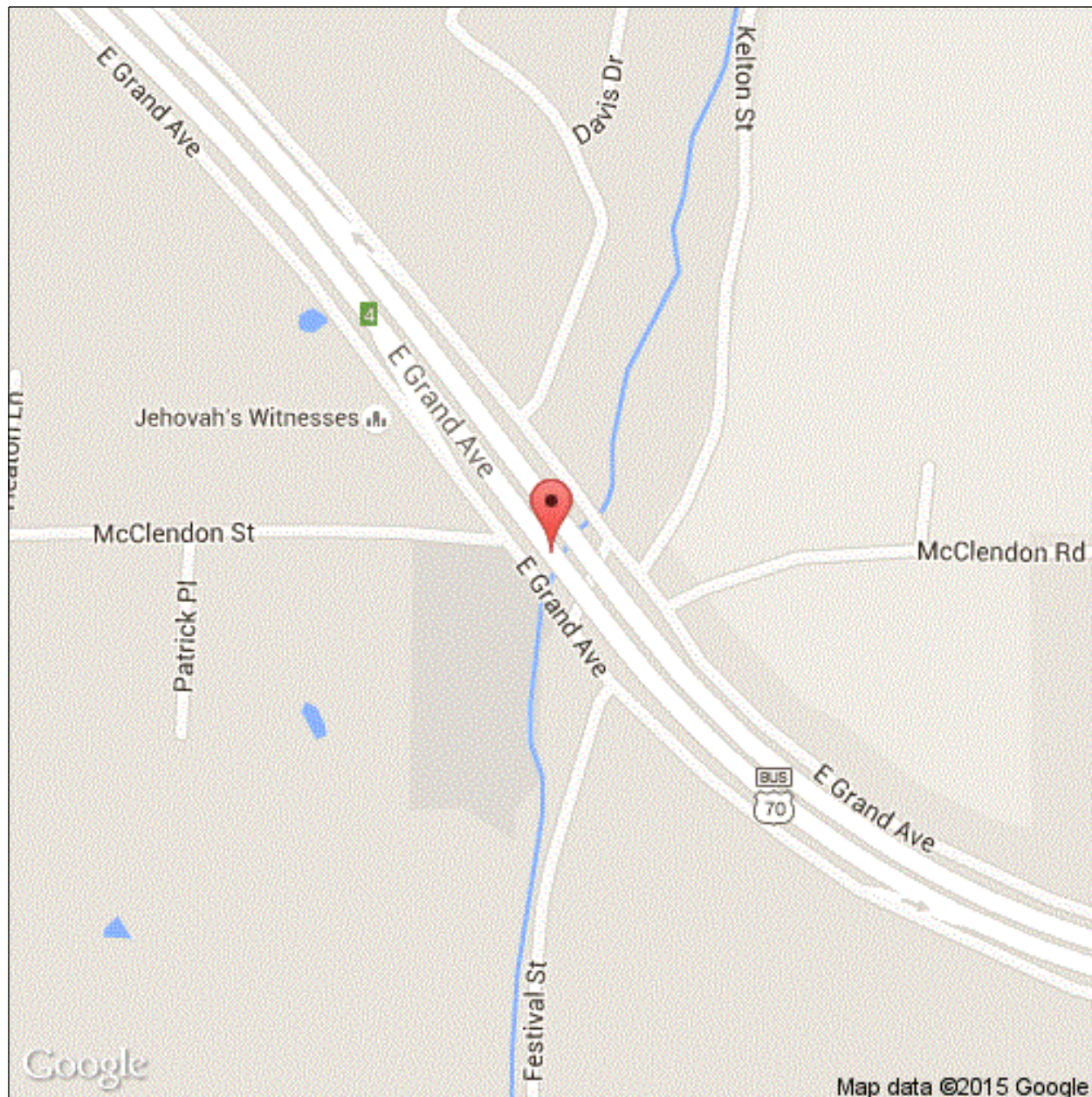
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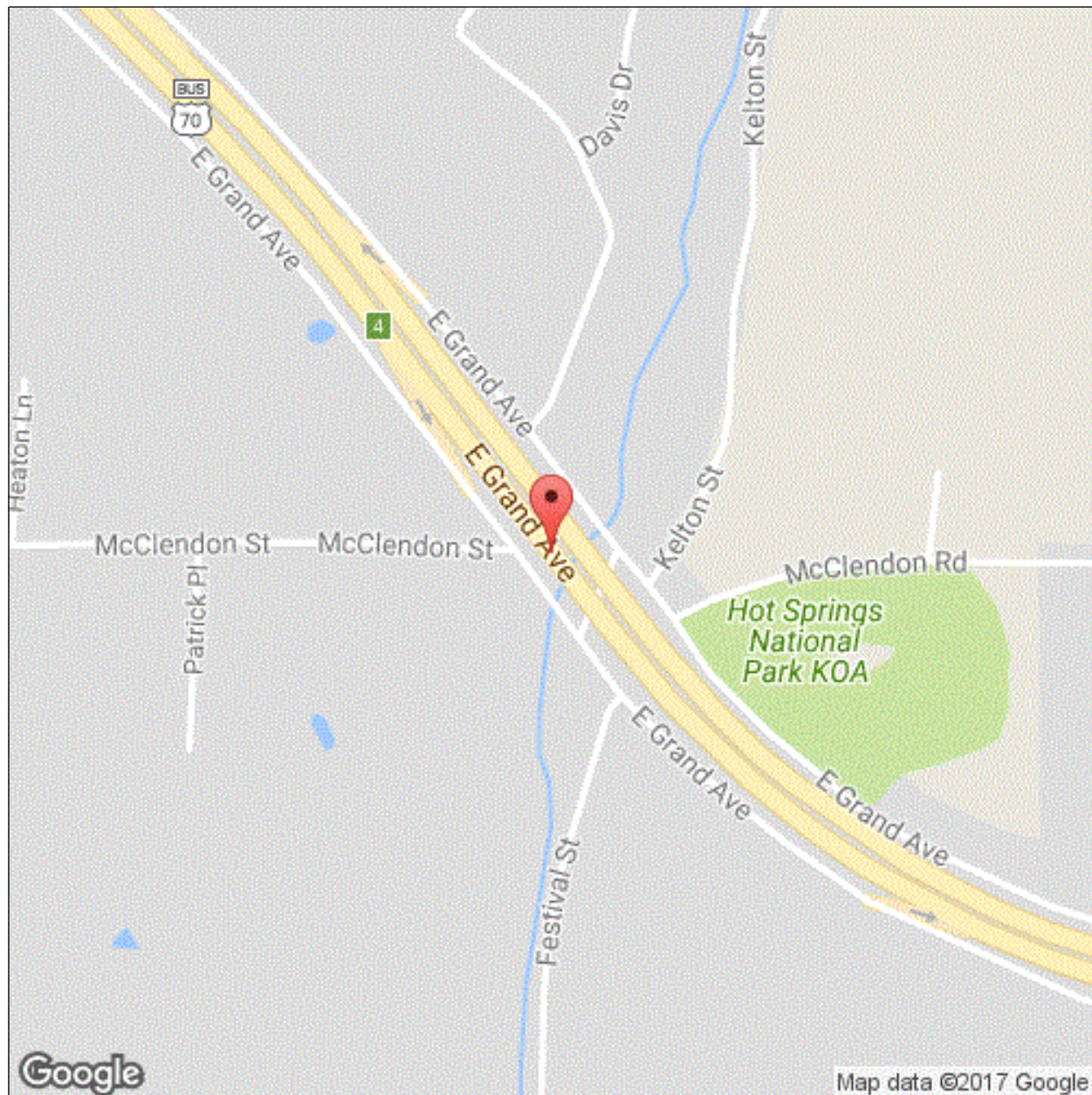
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### Executive Summary

job 6616 dwg 8981. Approach going east.

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## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	07/18/2017
(8) STRUCTURE NUMBER	A2943	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 6 70 2	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	06 (3) COUNTY CODE 051	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Br. GulphaCrk, McClendon	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 70B EB Log 3.5		
(9) LOCATION	3.54 MI E SH7		
(11) MILEPOINT 3.540	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	000007009B (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.50842	(17) LONGITUDE -93.00970		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	6
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE	5
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(60) SUBSTRUCTURE	5
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	6
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
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 1958	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	4
(42) TYPE OF SERVICE ON 1 UNDER 6		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 02		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 7500	(19) BYPASS DETOUR LENGTH 1	(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.) 44	(49) STRUCTURE LENGTH (ft.) 266	(67) STRUCTURAL EVALUATION	5
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1.2 RIGHT 1.2		(68) DECK GEOMETRY	3
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	27.9	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	5
(52) DECK WIDTH, OUT-TO-OUT (ft.)	33.5	(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.)	38.1	(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 30	(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.)	30.8	36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.)	H 16.83	36D) APPROACH GUARDRAIL ENDS:	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H 7.8	(113) SCOUR CRITICAL BRIDGES	8
(56) MIN LATERAL UNDER CLEARANCE (ft.)	5.7	SUFFICIENCY RATING	2
		STATUS	64.9
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.)	302.0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	12
(95) ROADWAY IMPROVEMENT COST (\$)	190	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	855	(101) PARALLEL STRUCTURE DESIGNATION	R
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2003	(102) DIRECTION OF TRAFFIC	1
(114) FUTURE ADT 4535	(115) YEAR OF FUTURE ADT 2028	(103) TEMP STRUCTURE	
		(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	1
		(20) TOLL	3
		(21) MAINTENANCE RESPONSIBILITY	01
		(22) OWNER	01
		(37) HISTORICAL	5
		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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## National Bridge Inventory

## UNDER RECORD 2

## IDENTIFICATION

(1) STATE CODE	056 - Arkansas	(7) FACILITY CARRIED	US 70B EB Log 3.5
(3) COUNTY CODE	051	(8) STRUCTURE NUMBER	A2943
(4) PLACE CODE	00000	(9) LOCATION	3.54 MI E SH7
(5) INV. ROUTE (ON/UNDER)	2 5 1 38640 0	(11) MILEPOINT	0.030 (12) BASE HIGHWAY NETWORK 0
(6) FEATURES INTERSECTED	Br. GulphaCrk, McClendon St.	(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00
		(16) LATITUDE	34. 5083888888889
		(17) LONGITUDE	-93.0097222222222

## STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE, MAIN A) KIND OF MATERIAL/DESIGN: 3 - Steel  
 B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder

## AGE OF SERVICE

(19) BYPASS DETOUR LENGTH	2	(30) YEAR OF AVERAGE DAILY TRAFFIC	1998
(27) YEAR BUILT	1958	(42) TYPE OF SERVICE	ON 1 UNDER 6
(28) LANES	ON 02 UNDER 02	(109) AVERAGE DAILY TRUCK TRAFFIC	1
(29) AVERAGE DAILY TRAFFIC	146		

## GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	16.9	(48) LENGTH OF MAXIMUM SPAN	44	(49) STRUCTURE LENGTH	266
(47) TOTAL HORIZONTAL CLEARANCE	35.4				

## CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	2
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	19	(103) TEMP STRUCTURE	
(100) STRAHNET HIGHWAY DESIGNATION	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(101) PARALLEL STRUCTURE DESIGNATION	R	(110) DESIGNATED NATIONAL NETWORK	0



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## Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	8184	sq. ft.	8020	158	6	0
	Soffit of all spans has cracks with light efflorescence. Spans 2, 4, & 6 have spalls & exposed rebar on right side.						
1080 - Delamination/Spall/Patched Area		4				4	
1090 - Exposed Rebar		2				2	
1130 - Cracking (RC and Other)		158			158		
510 - Wearing Surfaces		7392	sq. ft.	4805	2587		
107 - Steel Open Girder/Beam	1- Ben.	1320	ft.	1276	42	2	0
	Span 1, beam 1 at bent 1 has active corrosion with pitting up to 1/16" deep. Areas of pitting at beams ends that have been painted over. Minor corrosion has initiated at beam ends. Fascia of beams 1 & 5 in all spans have peeling paint. Beam repainted by H.B.M. 9-3-09.						
1000 - Corrosion		44			42	2	
515 - Steel Protective Coating		11000	sq. ft.	8618	2125	195	62
3420 - Peeling/Bubbling/Cracking (Steel Protective Coatings)		2125			2125		
3440 - Effectiveness (Steel Protective Coatings)		257				195	62
205 - Reinforced Concrete Column	1- Ben.	10	each	7	0	3	0
	Bent 2 column 1, bent 4 columns 1 and 2 have rebar exposed.						
1090 - Exposed Rebar		3				3	
215 - Reinforced Concrete Abutment	1- Ben.	90	ft.	84	6		
	Both abutments have cracks.						
234 - Reinforced Concrete Pier Cap	1- Ben.	165	ft.	158	4	3	0
	Bent 2 cap has a spall with rebar exposed Bent 4 cap has exposed rebar.						
1080 - Delamination/Spall/Patched Area		1			1		
1090 - Exposed Rebar		3				3	
1130 - Cracking (RC and Other)		3			3		
311 - Movable Bearing	1- Ben.	30	each	0	10	20	0
1000 - Corrosion		30			10	20	
313 - Fixed Bearing	1- Ben.	30	each	10	20	0	0
1000 - Corrosion		20			20		
330 - Metal Bridge Railing	1- Ben.	528	ft.	528			
515 - Steel Protective Coating		1056	sq. ft.	252	804	0	0
3440 - Effectiveness (Steel Protective Coatings)		804			804		

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## Bridge Inspection Report

Pictures

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## Bridge Inspection Report

Sketches



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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 07/21/2015

Priority: D - Routine

Work Code:

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Deficiency Description:

Caps and columns have spalls with rebar exposed

Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Monitor



PHOTO 1      Description      Bent 4, ahead side, exposed rebar on columns.