

Bridge Inspection Report

03638
US167 S-4 LM17.76
over
US 79-SEC 5



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

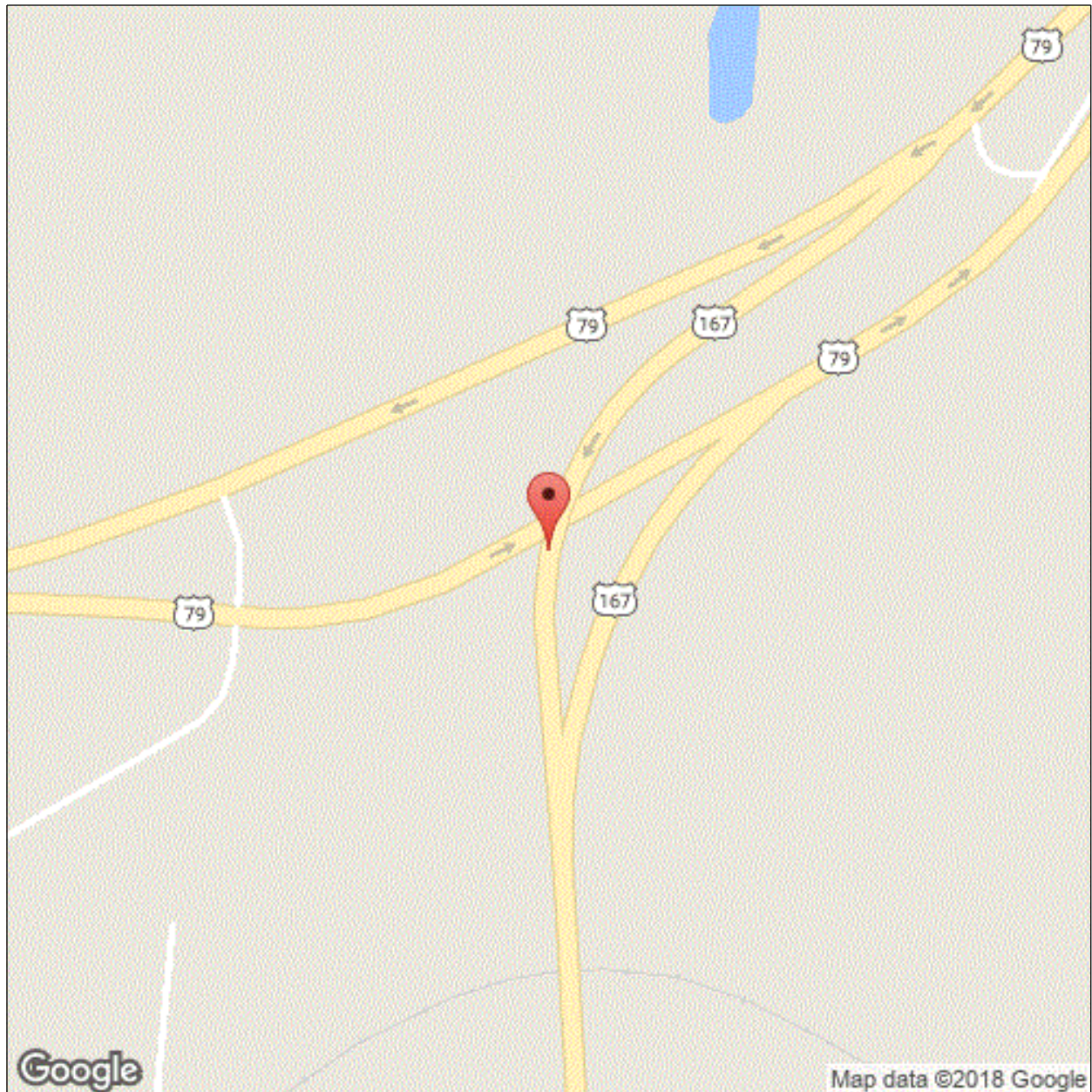
Structure Number: 03638

Inspection Date:

Facility Carried: US167 S-4 LM17.76

Bridge Inspection Report

Location Map



Latitude: 33.79094

Longitude: -92.46768

Inspector:

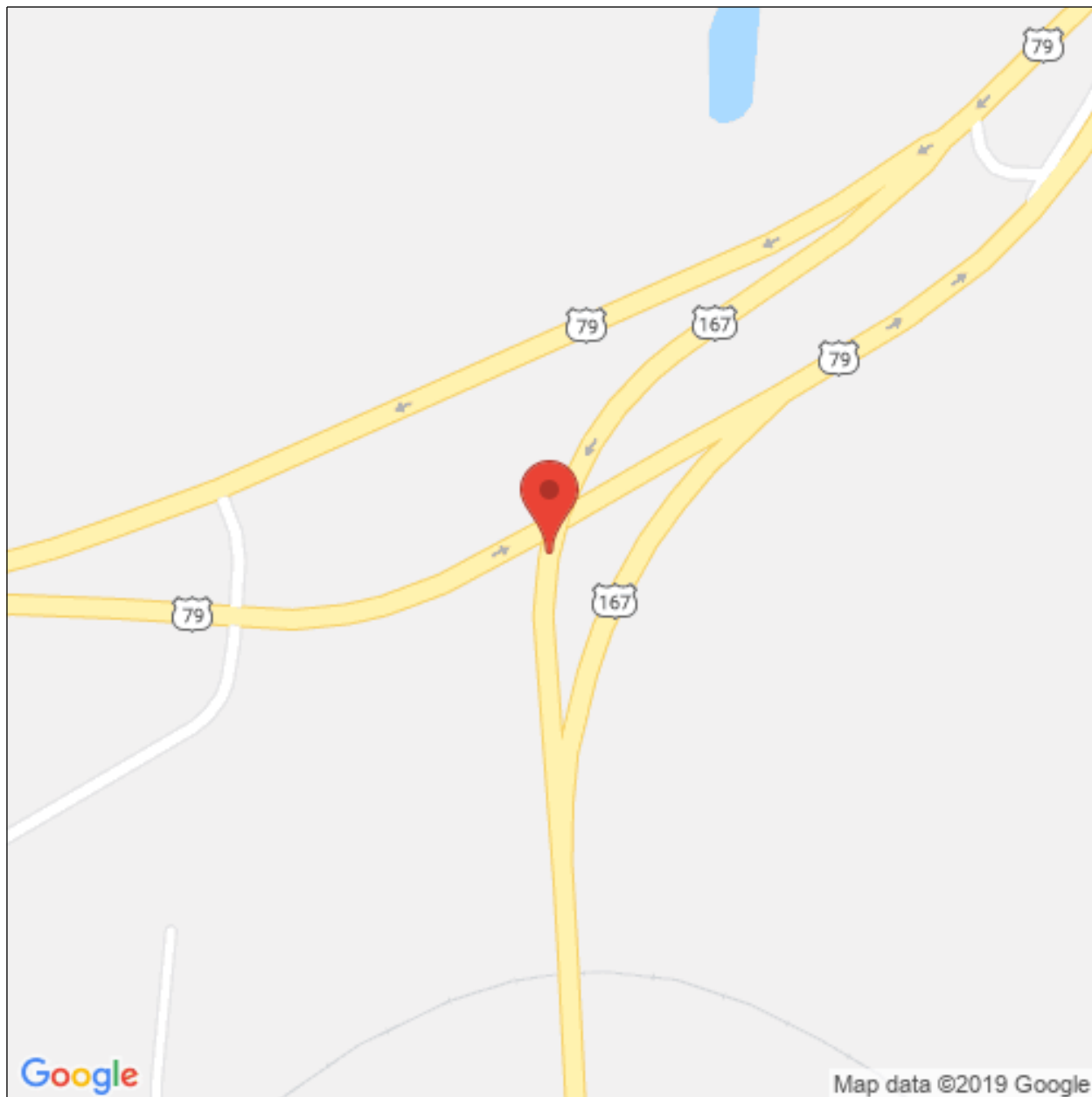
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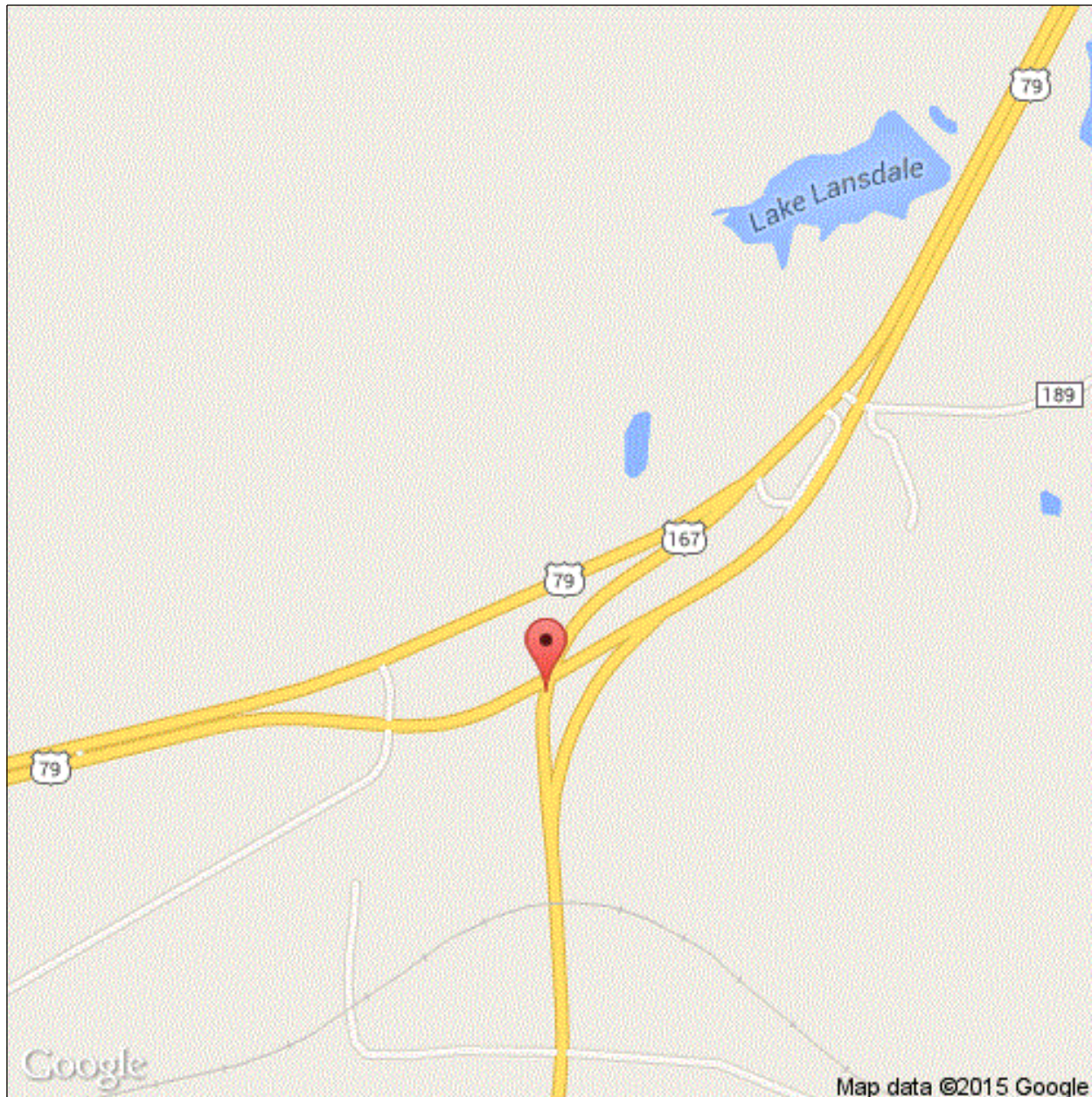
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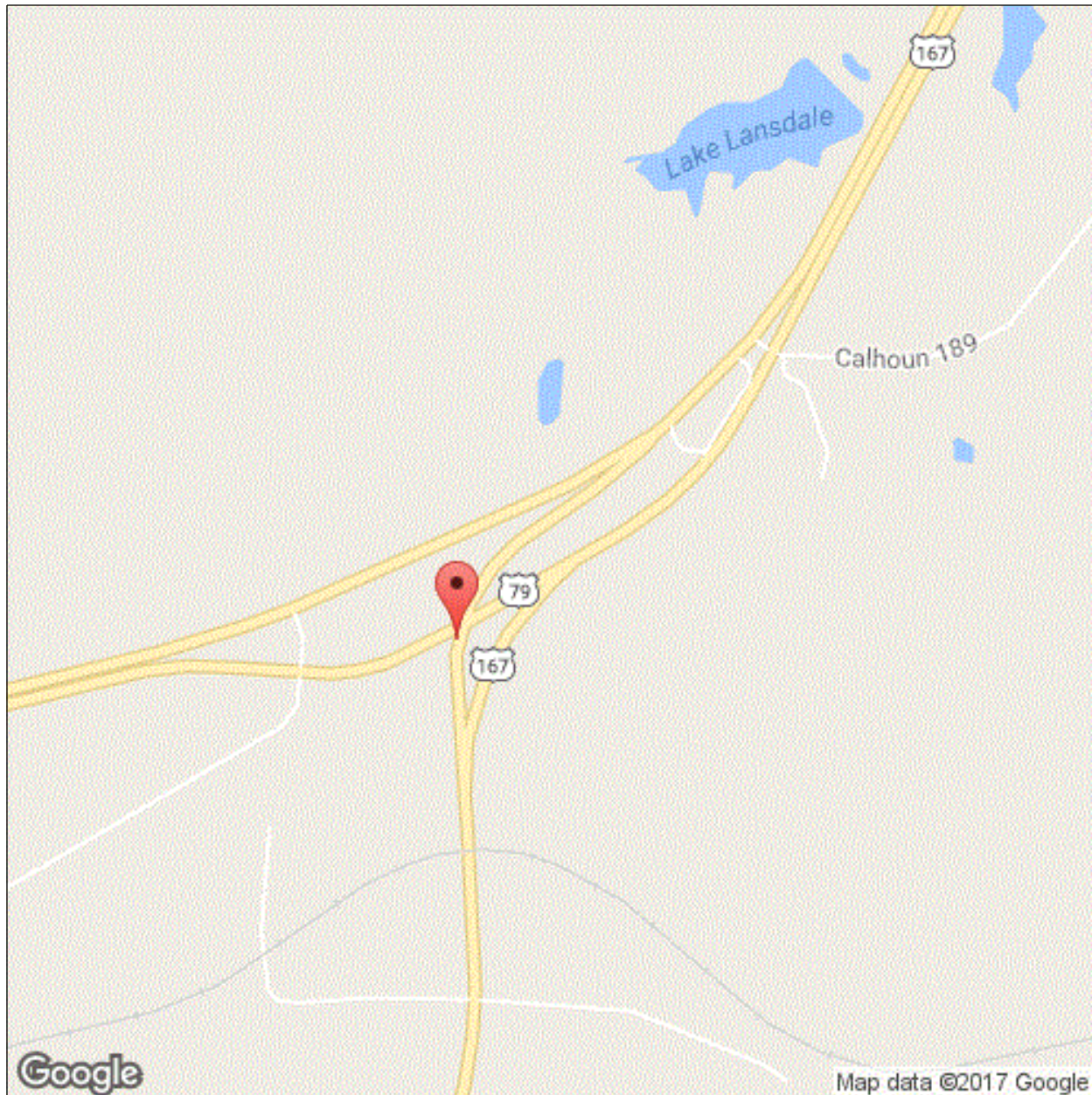
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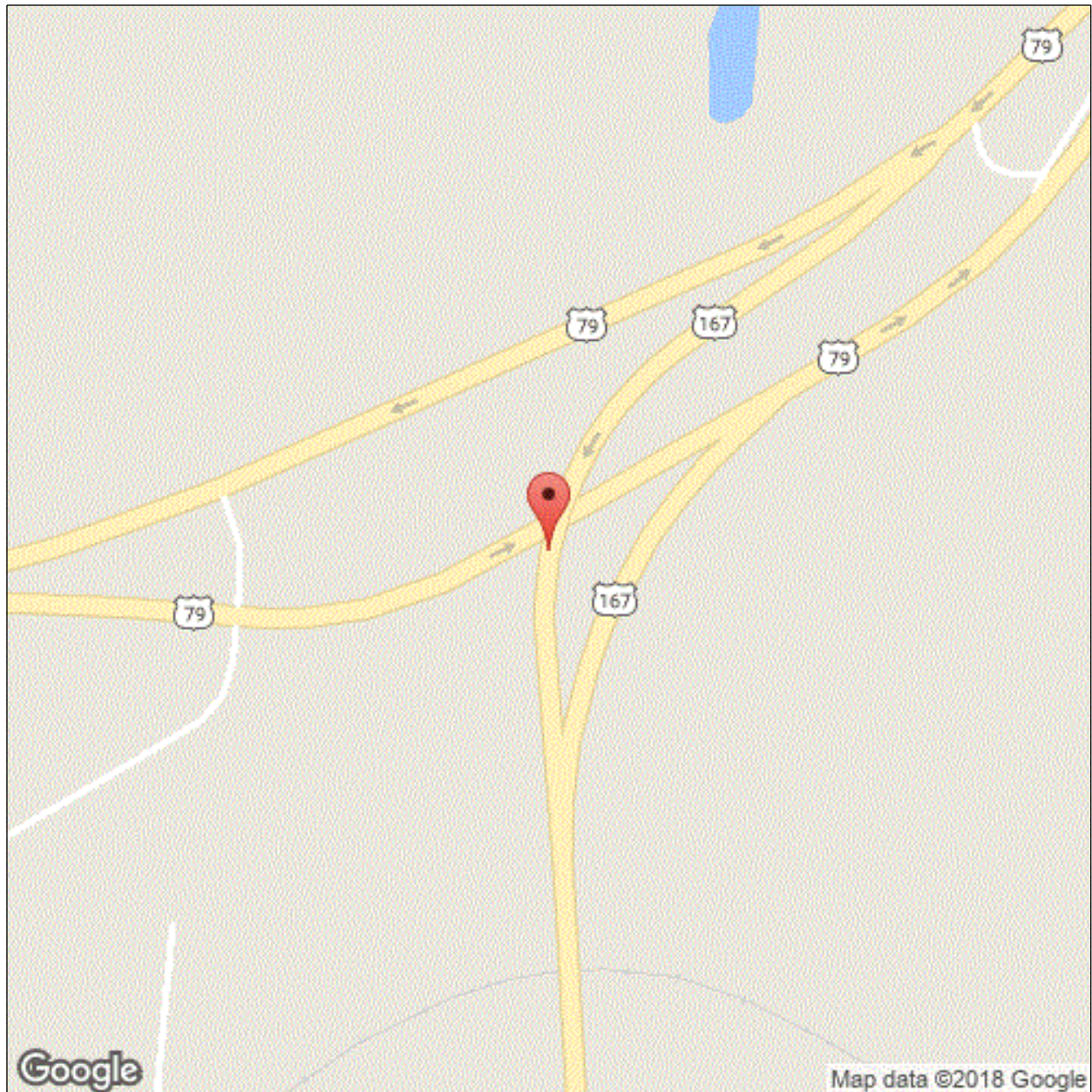
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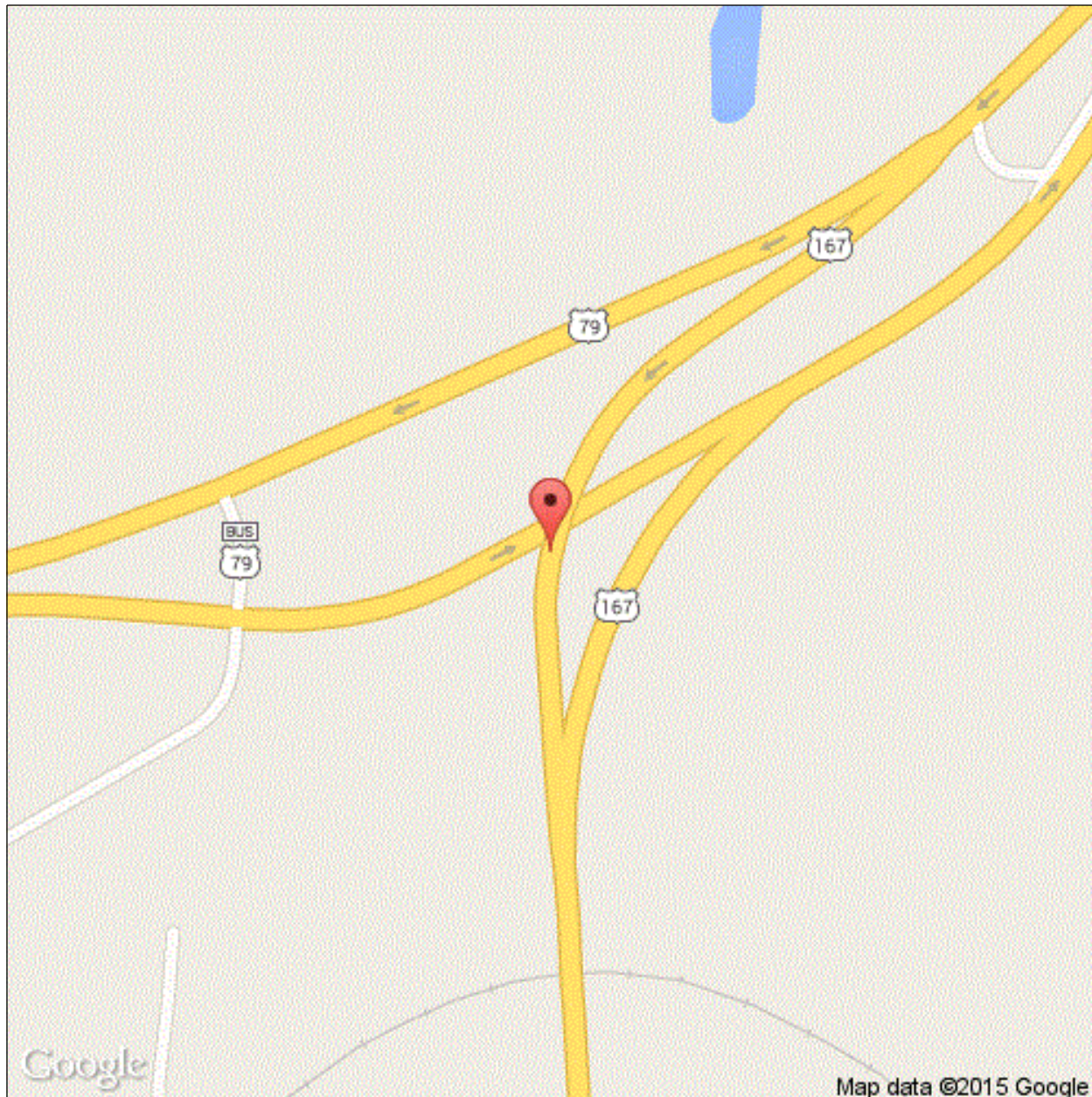
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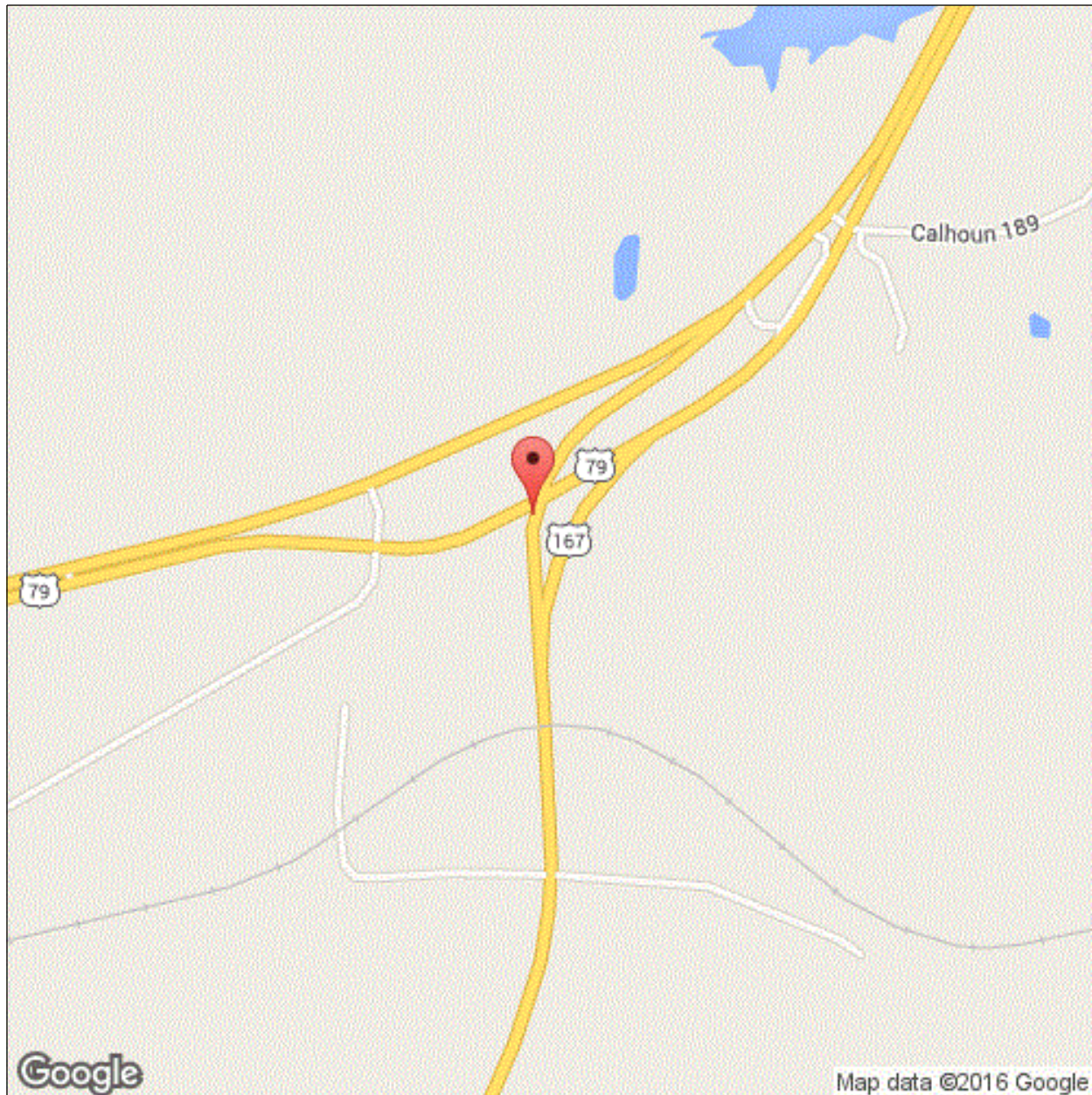
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Bridge Inspection Report

Executive Summary

Logged south to north.

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	03638	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 7 167 3	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	07 (3) COUNTY CODE 013	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	US 79-SEC 5	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US167 S-4 LM17.76		
(9) LOCATION	2.0 MI N JCT SH 205		
(11) MILEPOINT 17.756	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000167040 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 33.79094	(17) LONGITUDE -92.46768		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	5
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE 7	(60) SUBSTRUCTURE 6
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION	N (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 4	(46) NUMBER OF APPROACH 0		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 1		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1968	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	5
(42) TYPE OF SERVICE ON 1 UNDER 1		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 01 UNDER 01		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 3537	(19) BYPASS DETOUR LENGTH 5	(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 26		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 70	(49) STRUCTURE LENGTH (ft.) 198	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 20.0		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	5
(52) DECK WIDTH, OUT-TO-OUT (ft.) 22.4		(71) WATERWAY ADEQUACY	N
(32) APPROACH ROADWAY WIDTH (ft.) 29.9		(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:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 20.0		36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.) H 15.25		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) H 11.3		(113) SCOUR CRITICAL BRIDGES	N
(56) MIN LATERAL UNDER CLEARANCE (ft.) 10.2		SUFFICIENCY RATING 90.5	STATUS 0
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 0		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	1
(114) FUTURE ADT 3900	(115) YEAR OF FUTURE ADT 2033	(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	N
		(111) PIER OR ABUTMENT PROTECTION	5
		(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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Bridge Inspection Report

Element Inspection

Rollup

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	3960	sq. ft.	3364	375	221	0
1080 - Delamination/Spall/Patched Area		221		0	0	221	0
1090 - Exposed Rebar		15		0	15	0	0
1120 - Efflorescence/Rust Staining		20		0	20	0	0
1130 - Cracking (RC and Other)		340		0	340	0	0
107 - Steel Open Girder/Beam	1- Ben.	792	ft.	792	0	0	0
515 - Steel Protective Coating		6859	sq. ft.	0	6859	0	0
3410 - Chalking (Steel Protective Coatings)		6859		0	6859	0	0
205 - Reinforced Concrete Column	1- Ben.	4	each	2	2	0	0
215 - Reinforced Concrete Abutment	1- Ben.	64	ft.	64	0	0	0
227 - Reinforced Concrete Pile	1- Ben.	16	each	16	0	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	93	ft.	67	26	0	0
1080 - Delamination/Spall/Patched Area		6		0	6	0	0
1090 - Exposed Rebar		12		0	12	0	0
1130 - Cracking (RC and Other)		8		0	8	0	0
300 - Strip Seal Expansion Joint	1- Ben.	160	ft.	122	0	0	38
2310 - Leakage		19		0	0	0	19
2330 - Seal Damage		19		0	0	0	19
311 - Movable Bearing	1- Ben.	16	each	16	0	0	0
313 - Fixed Bearing	1- Ben.	16	each	15	1	0	0
1000 - Corrosion		1		0	1	0	0
321 - Reinforced Concrete Approach Slab	1- Ben.	1750	sq. ft.	1670	80	0	0
1130 - Cracking (RC and Other)		80		0	80	0	0
330 - Metal Bridge Railing	1- Ben.	396	ft.	396	0	0	0

Inspector:

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Bridge Inspection Report

Element Inspection

Segment1 - No items available

Inspector:

Structure Number: 03638

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Bridge Inspection Report

Element Inspection

Segment2

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	3960	sq. ft.	3364	375	221	0
	All spans have deck patches, the worse being span 3. Spans 1-3 have transverse cracks. Soffit- Spans 2-4 have cracks with light efflorescence Span 3 bay 3 at top flange has spalls with exposed rebar.						
1080 - Delamination/Spall/Patched Area		221				221	
1090 - Exposed Rebar		15			15		
1120 - Efflorescence/Rust Staining		20			20		
1130 - Cracking (RC and Other)		340			340		
107 - Steel Open Girder/Beam	1- Ben.	792	ft.	792			
515 - Steel Protective Coating		6859	sq. ft.	0	6859	0	0
3410 - Chalking (Steel Protective Coatings)		6859			6859		
205 - Reinforced Concrete Column	1- Ben.	4	each	2	2		
	Bent 2 column 2 vertical cracks. Bent 3 column 1 diagonal crack at top.						
215 - Reinforced Concrete Abutment	1- Ben.	64	ft.	64			
227 - Reinforced Concrete Pile	1- Ben.	16	each	16			
234 - Reinforced Concrete Pier Cap	1- Ben.	93	ft.	67	26	0	0
	Bent 2 cap ahead, spall with exposed rebar. Bent 3 back, has horizontal crack. Bent 4, bottom of cap has spalls with exposed rebar.						
1080 - Delamination/Spall/Patched Area		6			6		
1090 - Exposed Rebar		12			12		
1130 - Cracking (RC and Other)		8			8		
300 - Strip Seal Expansion Joint	1- Ben.	160	ft.	122	0	0	38
	Joint seals at bents 2 and 3 are missing.						
2310 - Leakage		19					19
2330 - Seal Damage		19					19
311 - Movable Bearing	1- Ben.	16	each	16			
313 - Fixed Bearing	1- Ben.	16	each	15	1	0	0
	Abutment 5 beam 5 has initial corrosion.						
1000 - Corrosion		1			1		
321 - Reinforced Concrete Approach Slab	1- Ben.	1750	sq. ft.	1670	80	0	0
1130 - Cracking (RC and Other)		80			80		
330 - Metal Bridge Railing	1- Ben.	396	ft.	396			

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Bridge Inspection Report

Pictures

PHOTO 1

Description

PHOTO 1

Description

Inspector:

Inspection Date:

Structure Number: 03638

Facility Carried: US167 S-4 LM17.76

Bridge Inspection Report

Pictures

PHOTO 2

Description

PHOTO 3

Description

Inspector:

Inspection Date:

Structure Number: 03638

Facility Carried: US167 S-4 LM17.76

Bridge Inspection Report

Pictures

PHOTO 4

Description

Inspector:

Inspection Date:

Structure Number: 03638

Facility Carried: US167 S-4 LM17.76

Bridge Inspection Report

Sketches

Inspector:

Structure Number: 03638

Inspection Date:

Facility Carried: US167 S-4 LM17.76

Bridge Inspection Report

Maintenance Needs

Date Reported: 4/12/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Deck components

Deck has numerous spalls especially spans one and three. Deck joints bents two and three strip seal has failed on right ends allowing water and roadway salts to drain onto bearings and steel beam ends.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Bent 2 joint seal missing

Stage: Monitor



PHOTO 2 Description

Inspector:

Inspection Date:

Structure Number: 03638

Facility Carried: US167 S-4 LM17.76

Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 3 Description

Stage: Monitor



PHOTO 4 Description

Inspector:

Structure Number: 03638

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 4/12/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Superstructure components

Bent one beam four has moderate section loss at haunch. Bent two beams two and three have moderate section loss at haunch. Bent three beam three has moderate section loss at haunch. Bent four cap spalled with exposed steel. Bent two bearing four has packrust and one anchor nut is deteriorated.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Bt. 1 Beam 4

Stage: Monitor



PHOTO 2 Description Bt2, beam 2 & 3.

Inspector:

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 3 Description

Stage: Monitor



PHOTO 4 Description

Stage: Monitor



PHOTO 5 Description Bt. 4 Cap

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/25/2018

Priority: C - Important

Work Code:

Deficiency Description:

Span 3, spall with exposed rebar in deck.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/25/2018

Priority: C - Important

Work Code:

Deficiency Description:

Joint seals at bents 2 and 3 are missing.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description