

Bridge Inspection Report

03347

US 167-SEC 12 NB

over

I 530 SB LNS Log 10.00



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

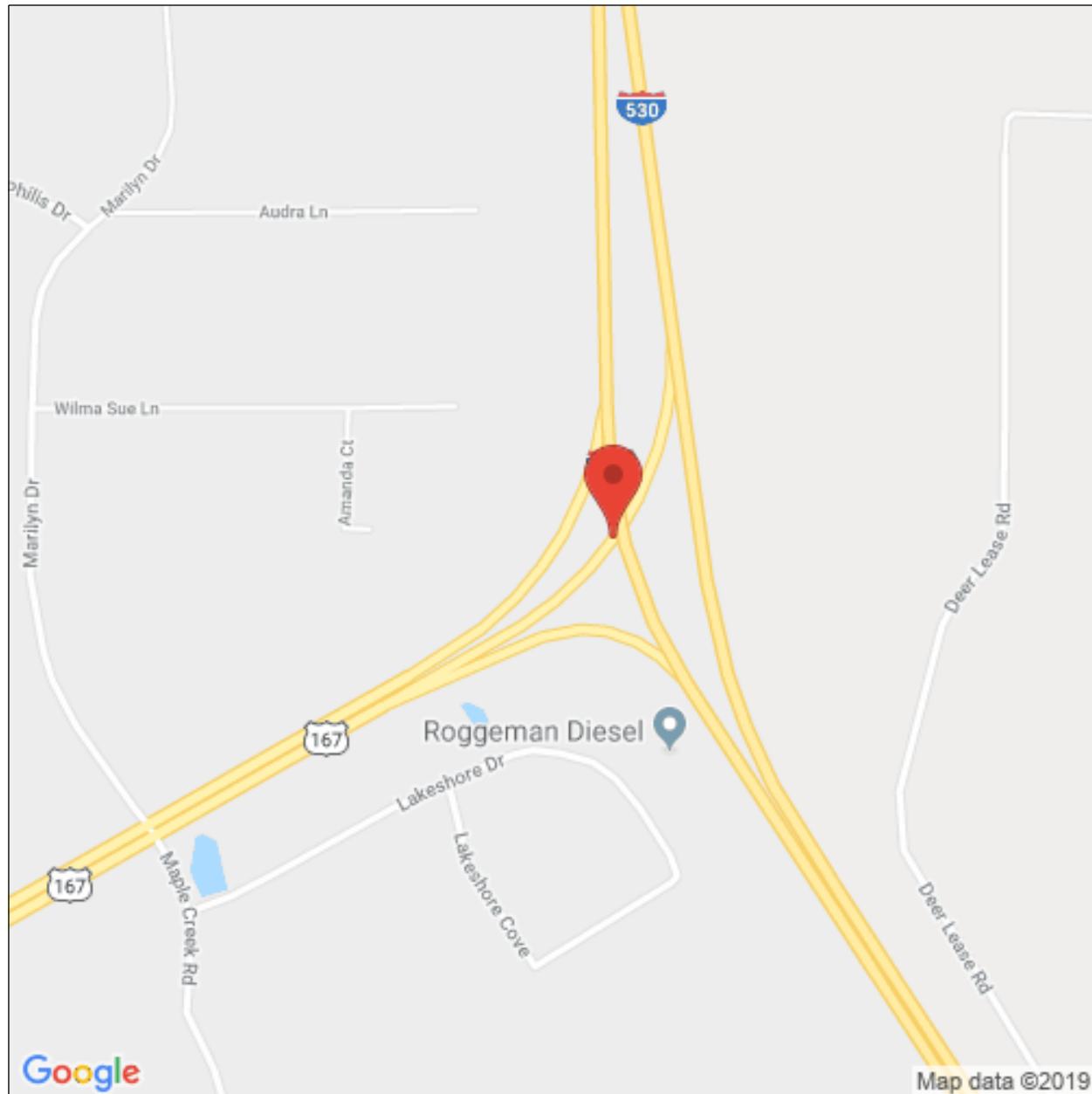
Structure Number: 03347

Inspection Date:

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Location Map



Latitude: 34.56789

Longitude: -92.26762

Inspector:

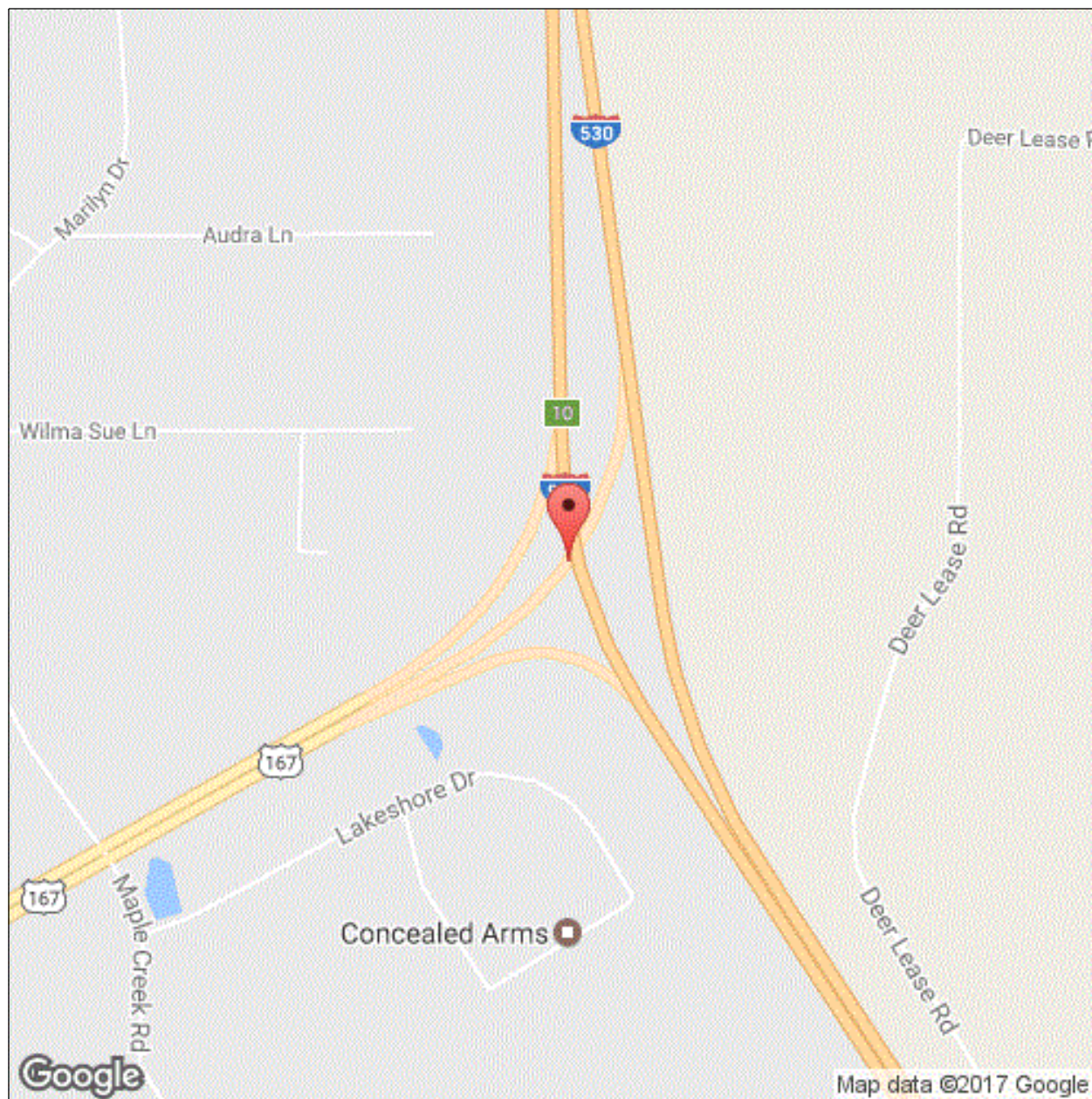
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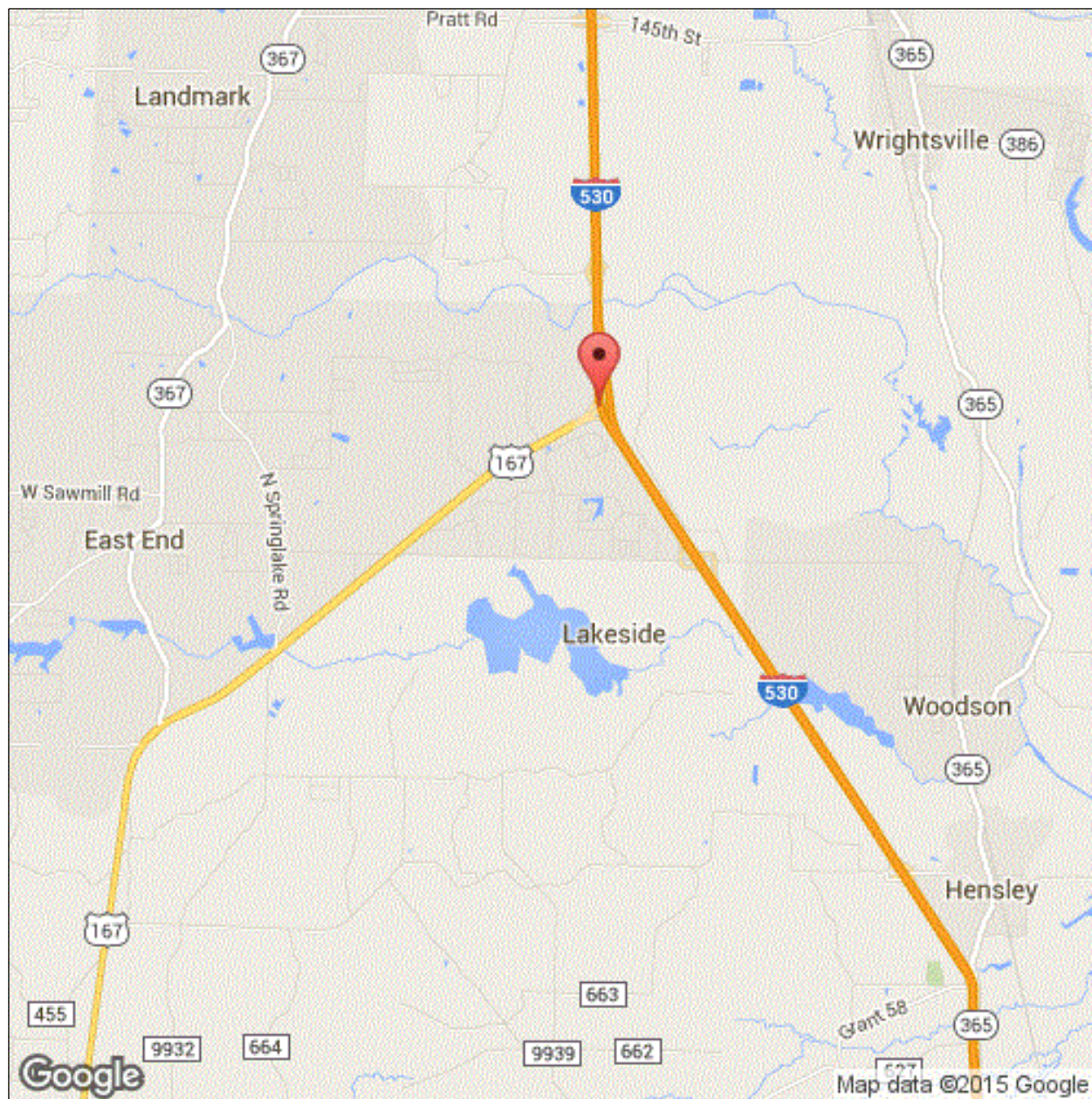
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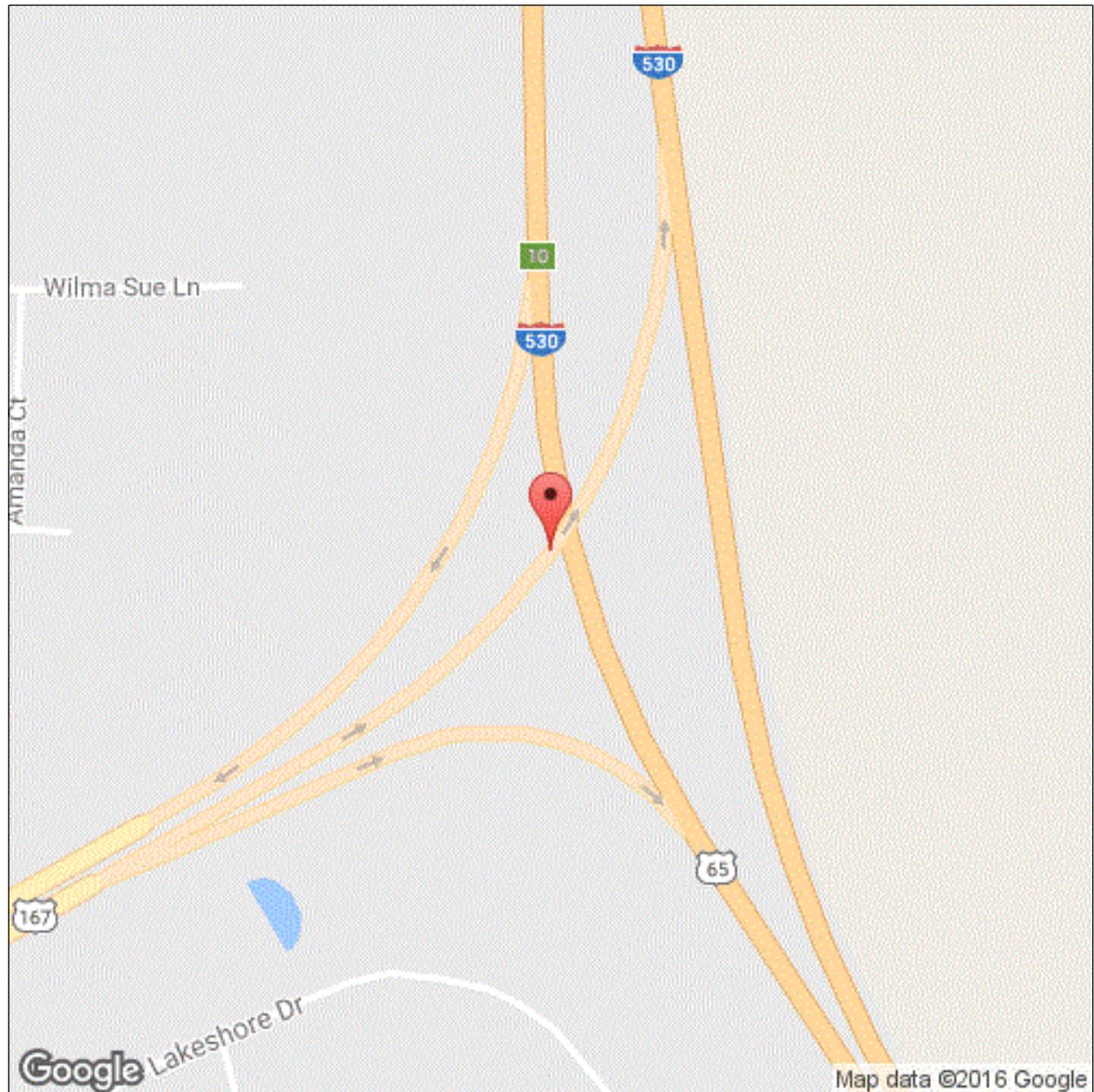
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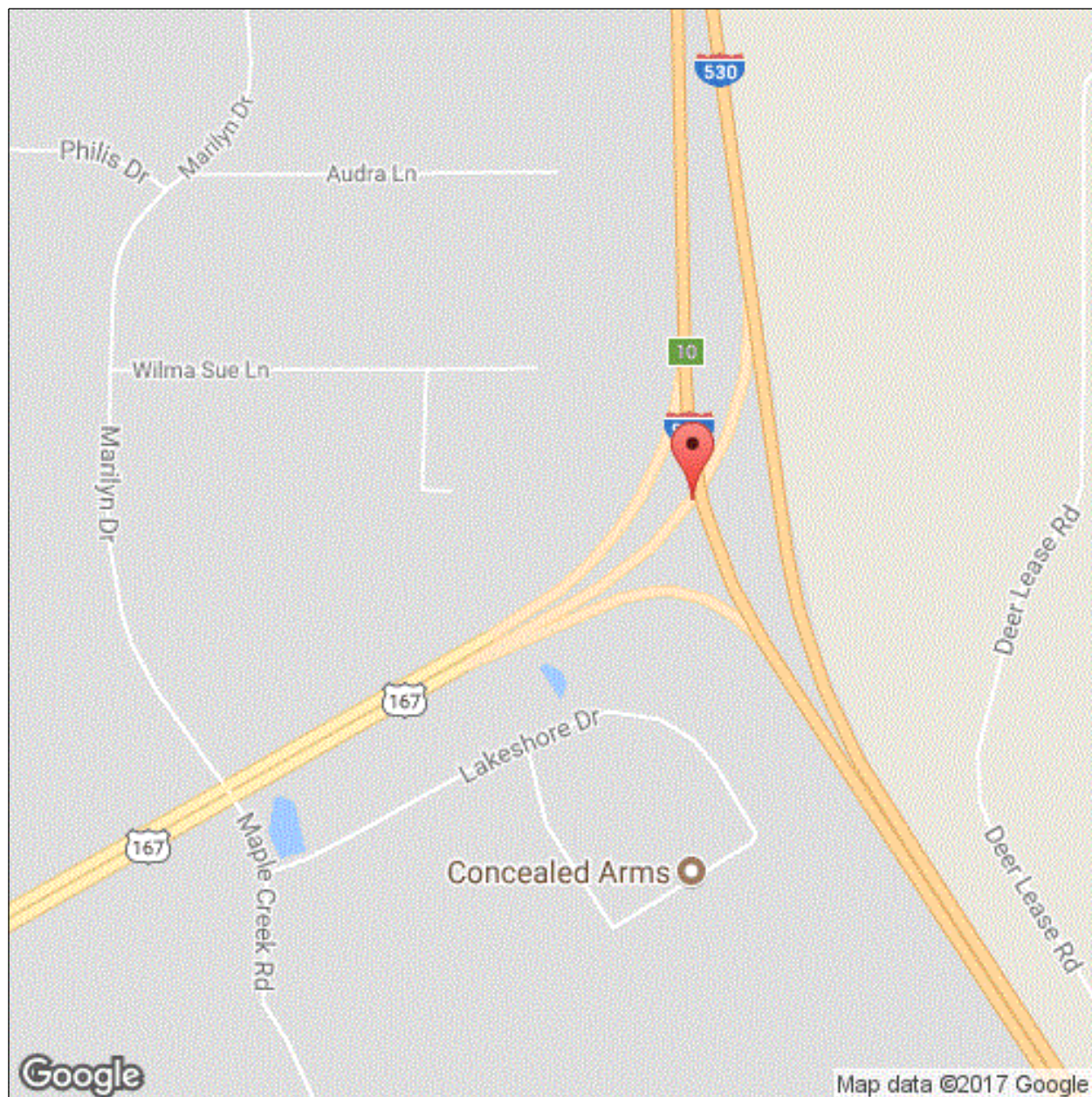
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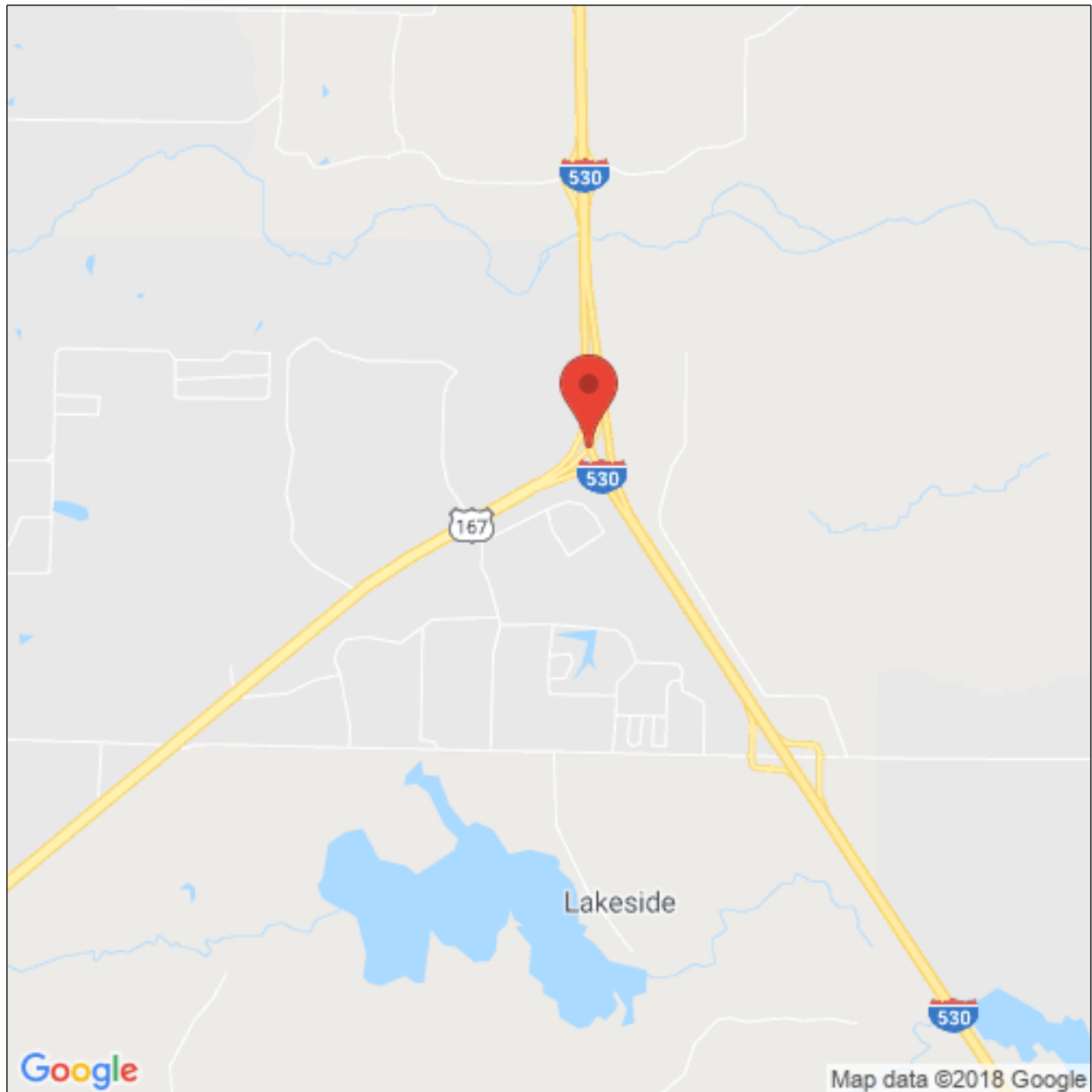
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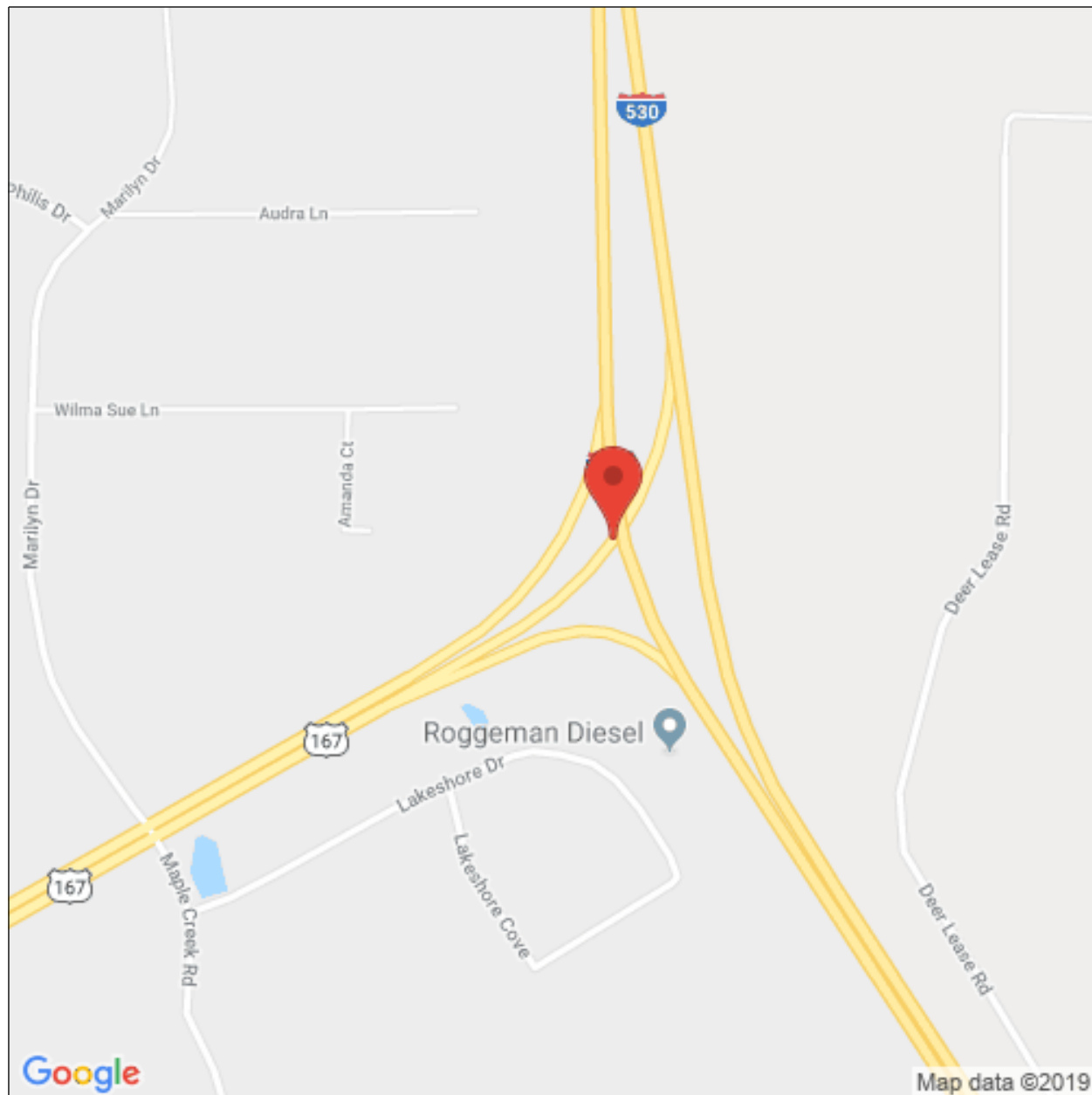
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Bridge Inspection Report

Executive Summary

Logged Northbound

Inspector:

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	12/17/2019
(8) STRUCTURE NUMBER	03347	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 7 167 1	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	06 (3) COUNTY CODE 125	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	I 530 SB LNS Log 10.00	C. OTHER SPECIAL	Y 24 12/10/2018
(7) FACILITY CARRIED	US 167-SEC 12 NB		
(9) LOCATION	@ INTERCH I 530 & 167		
(11) MILEPOINT 7.189	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000167120 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.56789	(17) LONGITUDE -92.26762		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	4
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE	5
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(60) SUBSTRUCTURE	6
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	N
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN 3	(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 1963	(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 02		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 16000	(19) BYPASS DETOUR LENGTH 0	(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.) 60	(49) STRUCTURE LENGTH (ft.) 174	(67) STRUCTURAL EVALUATION	5
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1.6 RIGHT 1.6		(68) DECK GEOMETRY	9
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	27.9	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	2
(52) DECK WIDTH, OUT-TO-OUT (ft.)	33.5	(71) WATERWAY ADEQUACY	N
(32) APPROACH ROADWAY WIDTH (ft.)	30.8	(72) APPROACH ROADWAY ALIGNMENT	7
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 45	(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.)	38.4	36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.)	H 15.67	36D) APPROACH GUARDRAIL ENDS:	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H 8.7	(113) SCOUR CRITICAL BRIDGES	N
(56) MIN LATERAL UNDER CLEARANCE (ft.)	6.5	SUFFICIENCY RATING	74.0 STATUS 1
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.)	205	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
(95) ROADWAY IMPROVEMENT COST (\$)	235	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	717	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2003	(102) DIRECTION OF TRAFFIC	1
(114) FUTURE ADT 4400	(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	N
		(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

Inspector:

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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.	5829	sq. ft.	0	5783	46	0
	Deck, all spans state forces have patched most spalls and sealed cracks. Span 1,2,3 have small spalls. Soffit, map cracks,spalls and spalls with exposed rebar, some efflorescence present.						
1080 - Delamination/Spall/Patched Area		1254		0	1244	10	0
1090 - Exposed Rebar		36		0	0	36	0
1120 - Efflorescence/Rust Staining		19		0	19	0	0
1130 - Cracking (RC and Other)		2320		0	2320	0	0
1190 - Abrasion/Wear (PSC/RC)		2200		0	2200	0	0
107 - Steel Open Girder/Beam	1- Ben.	855	ft.	200	219	436	0
	All beams have active surface rust to web and flanges with light to moderate pitting. Span 3 beam 3 has pitting up to 1/8". Worst case this bridge see photo. Span 2 beam 1 has been has been modified by heavy bridge maintenance due to traffic impact. See Micro station sketch						
1000 - Corrosion		655		0	219	436	0
515 - Steel Protective Coating		6310	sq. ft.	0	0	3155	3155
3440 - Effectiveness (Steel Protective Coatings)		6310		0	0	3155	3155
205 - Reinforced Concrete Column	1- Ben.	4	each	4	0	0	0
215 - Reinforced Concrete Abutment	1- Ben.	100	ft.	87	12	1	0
	Spall with exposed rebar bent 4.						
1080 - Delamination/Spall/Patched Area		2		0	2	0	0
1090 - Exposed Rebar		1		0	0	1	0
1130 - Cracking (RC and Other)		10		0	10	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	80	ft.	77	3	0	0
1130 - Cracking (RC and Other)		3		0	3	0	0
303 - Assembly Joint with Seal	1- Ben.	157	ft.	0	0	157	0
	All joints are leaking.						
2310 - Leakage		157		0	0	157	0
311 - Movable Bearing	1- Ben.	15	each	0	15	0	0
1000 - Corrosion		15		0	15	0	0
313 - Fixed Bearing	1- Ben.	15	each	0	7	8	0
	Bearing 1,2&3 at bent 1 and bearings 1,2,3&4 at bent 4 have active corrosion and pack rust.						
1000 - Corrosion		15		0	7	8	0
330 - Metal Bridge Railing	1- Ben.	348	ft.	348	0	0	0

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Bridge Inspection Report

Element Inspection

331 - Reinforced Concrete Bridge Railing	1- Ben.	348	ft.	301	47	0	0
Cracks in both concrete rails.							

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Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Pictures

PHOTO 1

Description

PHOTO 1

Description

Inspector:

Inspection Date:

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Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Pictures

PHOTO 2

Description

PHOTO 2

Description

Inspector:

Inspection Date:

Structure Number: 03347

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Pictures

PHOTO 3

Description

Inspector:

Inspection Date:

Structure Number: 03347

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Sketches

Inspector:

Structure Number: 03347

Inspection Date:

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Maintenance Needs

Date Reported: 12/14/2010 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Slope pavement at both abutments are Eroded along the edge. Erosion has undermined slope pavement for 24 feet along edge, 2 feet down and 4 feet under the concrete at abutment 2.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Assigned Pulaski 2 11-15-16

Stage: Assigned



PHOTO 1 Description Left side span 1 erosion next to slope paving.

Stage: Assigned



PHOTO 2 Description Span 1 left side, erosion under slope paving.

Inspector:

Structure Number: 03347

Inspection Date:

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description Span 3, right side, erosion undermining slope paving.

Stage: Assigned



PHOTO 5 Description Slope pavement at bent 1 left side has eroded.

Stage: Assigned



PHOTO 4 Description Span 1 left side, erosion under slope paving.

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 12/14/2010 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Active surface rust on web and upper and lower flanges on all beams all spans. Paint system failing. See photos.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Span 2 beam 2 damaged from traffic impact

Stage: Monitor



PHOTO 2 Description Span 3 beam 3 pitting up to 1/8"

Inspector:

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 3 Description Span 1, beam 1, active corrosion.

Stage: Monitor



PHOTO 4 Description Span 3, beam 3, flaking rust and pitting up to 1/8"

Stage: Monitor



PHOTO 5 Description Span 3 beam 3 has active corrosion and pitting up to 1/8".

Stage: Monitor



PHOTO 6 Description Span 1 girder 4 bottom flange has active corrosion and moderate pitting, common at most beams.

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Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 7 Description Span 1, beam 1, active corrosion.

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 12/11/2017

Priority: C - Important

Work Code:

Deficiency Description:

Right side approach guardrail damaged due to traffic impact.

Work Description:

Approach rail has been replaced. See photo.

Date Repairs Completed: 12/17/2019

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Right side approach guardrail damaged due to traffic impact.

Stage: Open



PHOTO 2 Description Right side approach guardrail damaged due to traffic impact.

Inspector:

Inspection Date:

Structure Number: 03347

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description Right approach rail has been replaced.

Inspector:

Structure Number: 03347

Inspection Date:

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Maintenance Needs

Date Reported: 12/17/2019

Priority: C - Important

Work Code:

Deficiency Description:

South end of bridge asphalt approach road has settled. See photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Northbound approach asphalt has settled.