

Bridge Inspection Report

M2222
SH176/Cmp Rbnsn Rd
over
SHILCOTTS BAYOU



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

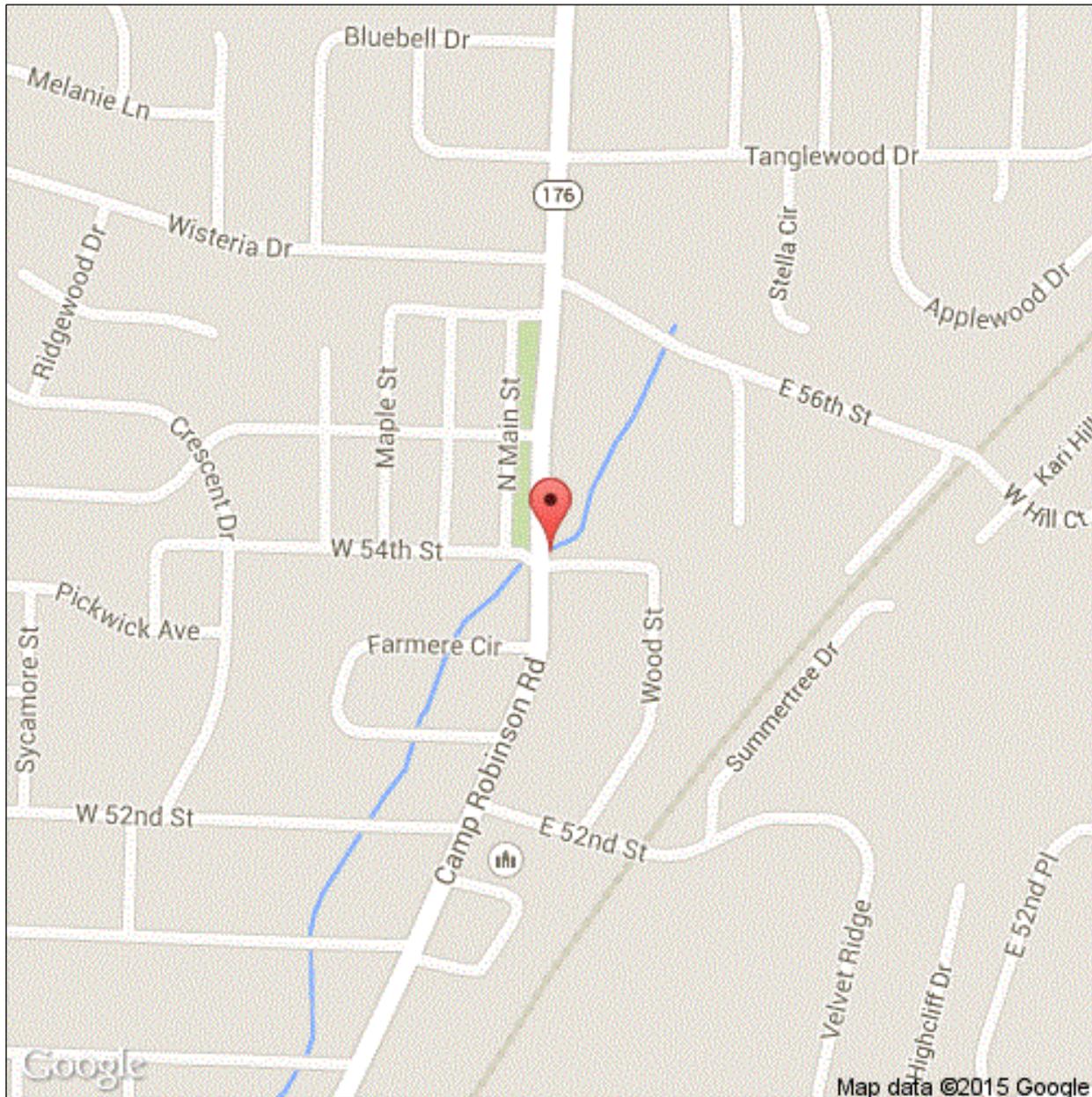
Structure Number: M2222

Inspection Date:

Facility Carried: SH176/Cmp Rbnsn Rd

Bridge Inspection Report

Location Map



Latitude: 34.80477

Longitude: -92.26592

Inspector:

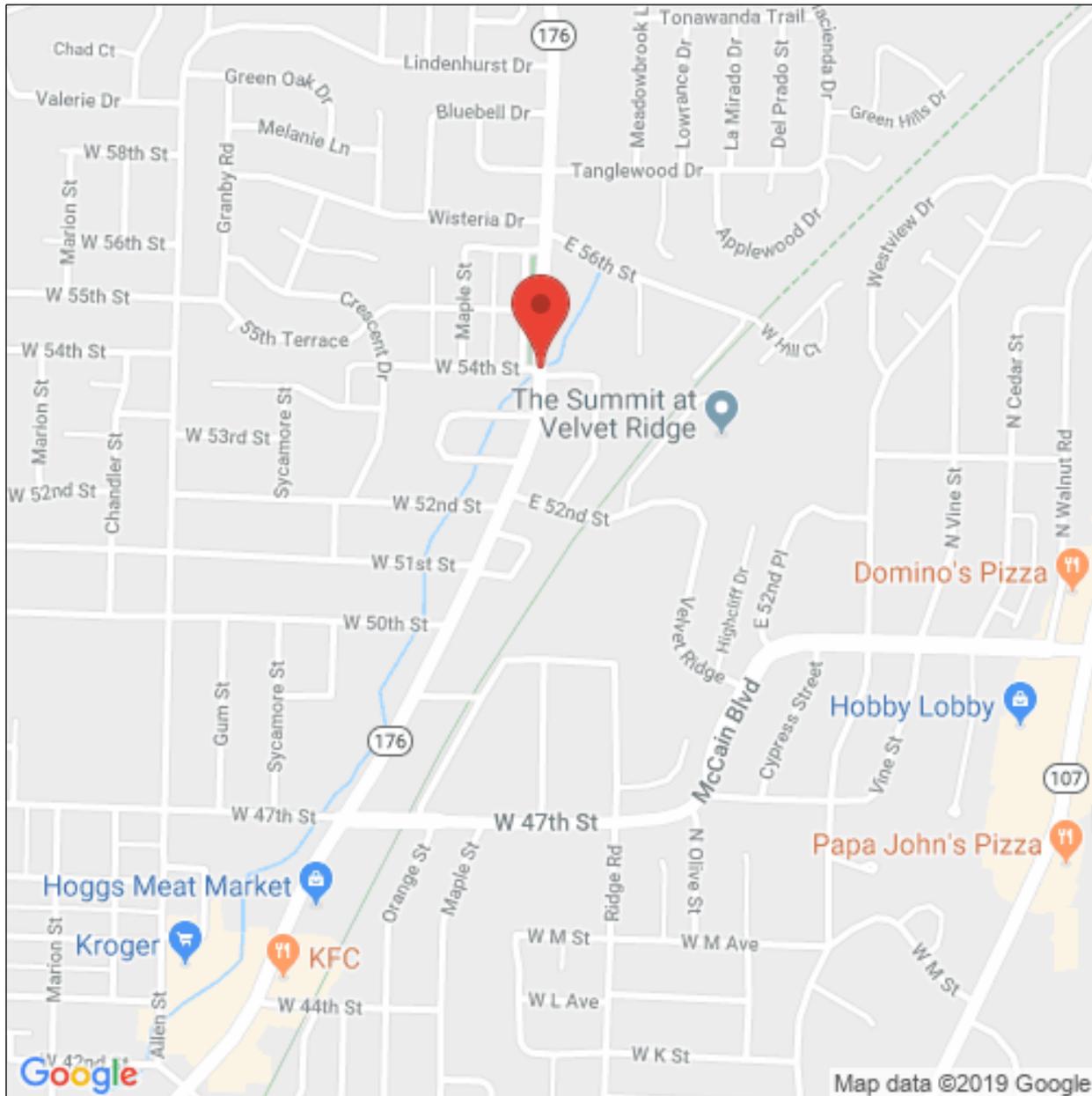
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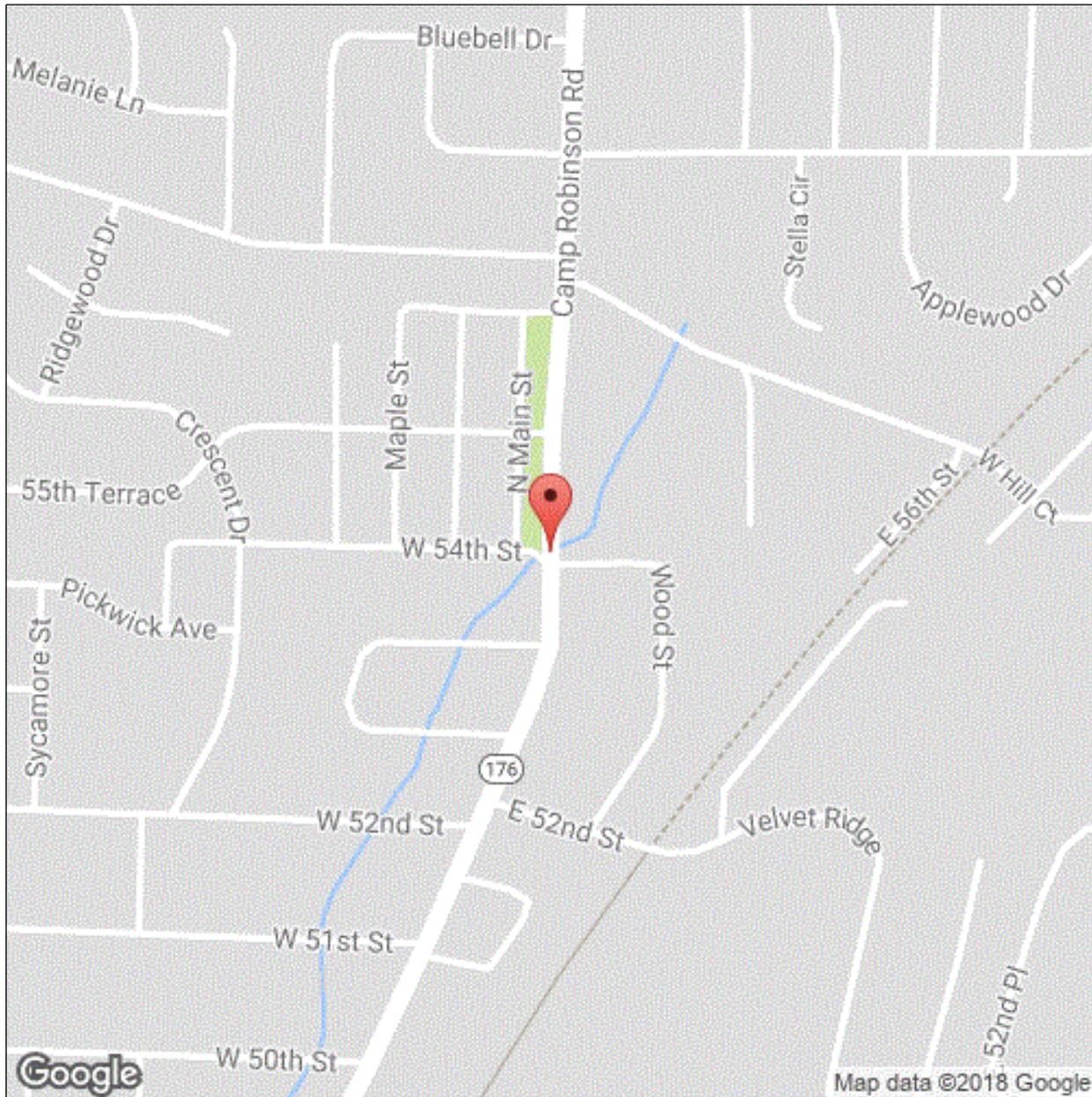
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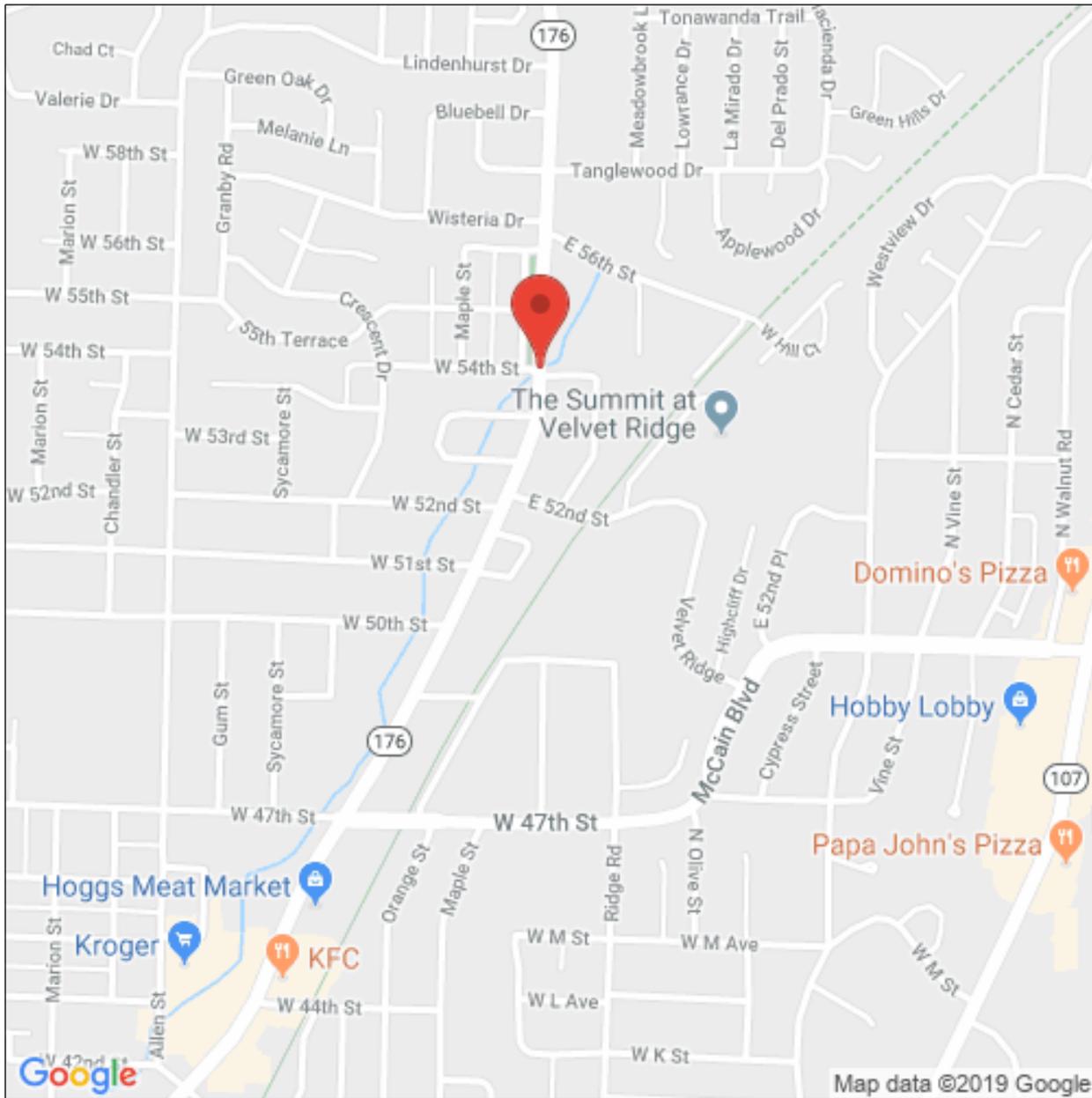
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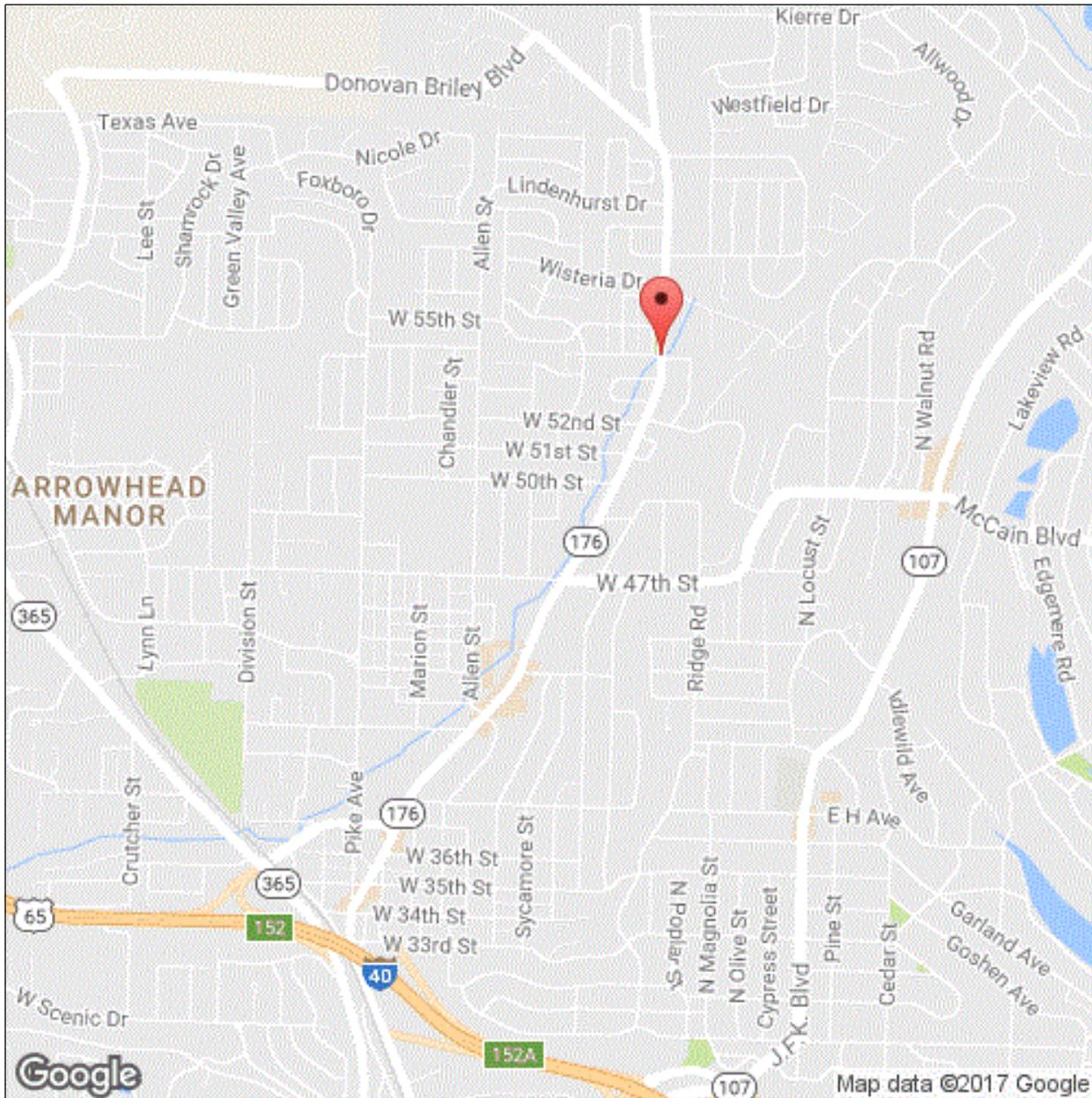
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Executive Summary

Logged Northbound

Bridge inspected as having 11 girders.
Girders 2 and 3, 9 and 10 are adjacent to one another.

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National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	03/13/2019
(8) STRUCTURE NUMBER	M2222	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 176 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	06 (3) COUNTY CODE 119	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	47940	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	SHILCOTTS BAYOU	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH176/Cmp Rbnsn Rd	CONDITION	
(9) LOCATION	1.7 MI N OF I 40	(58) DECK	4
(11) MILEPOINT 1.55	(12) BASE HIGHWAY NETWORK 0	(59) SUPERSTRUCTURE	4 (60) SUBSTRUCTURE 6
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00	(61) CHANNEL & CHANNEL PROTECTION	8 (62) CULVERT N
(16) LATITUDE 34.80477	(17) LONGITUDE -92.26592	LOAD RATING AND POSTING	
(98A) BORDER BRIDGE CODE		(31) DESIGN LOAD	0
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT	(63) METHOD USED TO DETERMINE OPERATING RATING	1
STRUCTURE TYPE AND MATERIAL		(64) OPERATING RATING	35
(43) STRUCTURE TYPE, MAIN		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
A) KIND OF MATERIAL/DESIGN:	1 - Concrete	(66) INVENTORY RATING	21
B) TYPE OF DESIGN/CONSTR:	04 - Tee Beam	(70) BRIDGE POSTING	3
(44) STRUCTURE TYPE, APPROACH SPANS		(41) STRUCTURE OPEN/POSTED/CLOSED	P
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	1 (46) NUMBER OF APPROACH	(68) DECK GEOMETRY	4
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION	(71) WATERWAY ADEQUACY	8
AGE OF SERVICE		(72) APPROACH ROADWAY ALIGNMENT	8
(27) YEAR BUILT	1949 (106) YEAR RECONSTRUCTED	(36) TRAFFIC SAFETY FEATURE	
(42) TYPE OF SERVICE	ON 1 UNDER 5	36A) BRIDGE RAILINGS:	0
(28) LANES	ON 03 UNDER 00	36B) TRANSITIONS:	0
(29) AVERAGE DAILY TRAFFIC	11000 (19) BYPASS DETOUR LENGTH	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	5
GEOMETRIC DATA		SUFFICIENCY RATING	33.1 STATUS 1
(48) LENGTH OF MAX SPAN (ft.)	20 (49) STRUCTURE LENGTH (ft.)	22	
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0.9	RIGHT	0
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)		40.0	
(52) DECK WIDTH, OUT-TO-OUT (ft.)		42	
(32) APPROACH ROADWAY WIDTH (ft.)		38.1	
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	30	
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	99.99	
(47) TOTAL HORIZONTAL CLEARANCE (ft.)		41.0	
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)		99.99	
(54) VERTICAL UNDER CLEARANCE (ft.)		N 0	
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)		N 99.9	
(56) MIN LATERAL UNDER CLEARANCE (ft.)		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	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	16
(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	2
(114) FUTURE ADT	16850 (115) YEAR OF FUTURE ADT	(103) TEMP STRUCTURE	
	2028	(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	0
		(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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Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
16 - Reinforced Concrete Top Flange	1- Ben.	924	sq. ft.	656	101	167	0
	Soffit Bays 2 -7 have exposed reinforcing steel and areas of delamination. Bay 7 is the worst full length of bay has exposed reinforcing steel. Bay 4 has minor longitudinal cracking. Wearing surface has transverse cracks and large longitude cracks.						
1080 - Delamination/Spall/Patched Area		12		0	12	0	0
1090 - Exposed Rebar		238		0	71	167	0
1130 - Cracking (RC and Other)		18		0	18	0	0
510 - Wearing Surfaces		838	sq. ft.	423	327	88	0
3210 - Delamination/Spall/Patched Area/Pothole (Wearing Surfaces)		75		0	75	0	0
3220 - Crack (Wearing Surface)		340		0	252	88	0
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	185	ft.	84	25	76	0
	3/8/2018 - KRM & RLS - Girders 3-9 have large areas of exposed reinforcing steel, delamination/honeycombing with loose aggregate and cracking. Girder 9 is the worst. Scattered horizontal and vertical crack on the sides of the girders.						
1080 - Delamination/Spall/Patched Area		45		0	0	45	0
1090 - Exposed Rebar		37		0	6	31	0
1130 - Cracking (RC and Other)		19		0	19	0	0
215 - Reinforced Concrete Abutment	1- Ben.	138	ft.	62	73	3	0
	Diagonal and vertical cracks in both abutments. Abutment 1 spall six foot from left end. Both abutments have moderate abrasion.						
1080 - Delamination/Spall/Patched Area		1		0	1	0	0
1130 - Cracking (RC and Other)		10		0	7	3	0
1190 - Abrasion/Wear (PSC/RC)		65		0	65	0	0

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Bridge Inspection Report

Pictures

PHOTO 1

Description

PHOTO 2

Description

Inspector:

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Bridge Inspection Report

Sketches

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 4/9/2012 12:00:00 AM

Priority: B - Pressing; 6 month completion goal

Work Code:

Deficiency Description:

Bottoms of girders 6 and 9 have Large spalls with exposed reinforcing steel. Raised up to B priority 3/8/2018 by KRM & RLS.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned

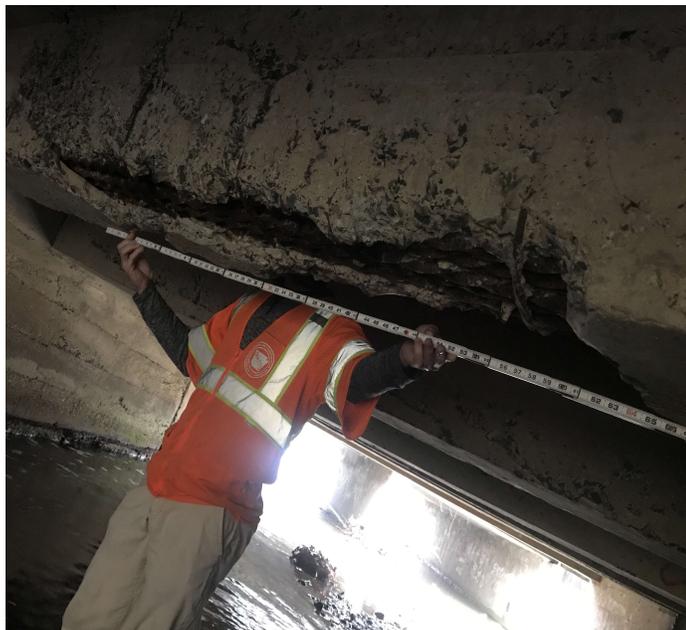


PHOTO 1 Description Girder 6 spall with exposed rebar.

Stage: Monitor



PHOTO 2 Description Girder 6, has 6' of exposed reinforcing steel to bottom flange.

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Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 3 Description Girder 9, spalls with exposed reinforcing steel, full length.

Stage: Assigned



PHOTO 4 Description Girder 9 is spalled the entire length with seton loss to hoop bars.

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 4/10/2013 12:00:00 AM

Priority: B - Pressing; 6 month completion goal

Work Code:

Deficiency Description:

Soffit between beams 3 thru 9 have spalls with exposed steel.

Added on 3/8/2018 by KRM & RLS. Bay 7 has up to 88 square feet of spalls and exposed rebar with section loss. Area is adjacent to girder 9 which has exposed rebar with section loss the entire length of the girder.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Bay 7 exposed reinforcing steel in soffit full length of bay.

Stage: Assigned



PHOTO 2 Description Soffit between girders 8 & 9 spalls with exposed rebar.

Inspector:

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description Soffit between girders 6 & 7 spalls with exposed rebar.

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Maintenance Needs

Date Reported: 4/10/2013 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Beams 3 thru 9 have large areas of honeycomb.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description Girder 5 right side honeycomb with exposed rebar.