

Bridge Inspection Report

00381

State Highway 22
over
Mine Brook-Logan Co.



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

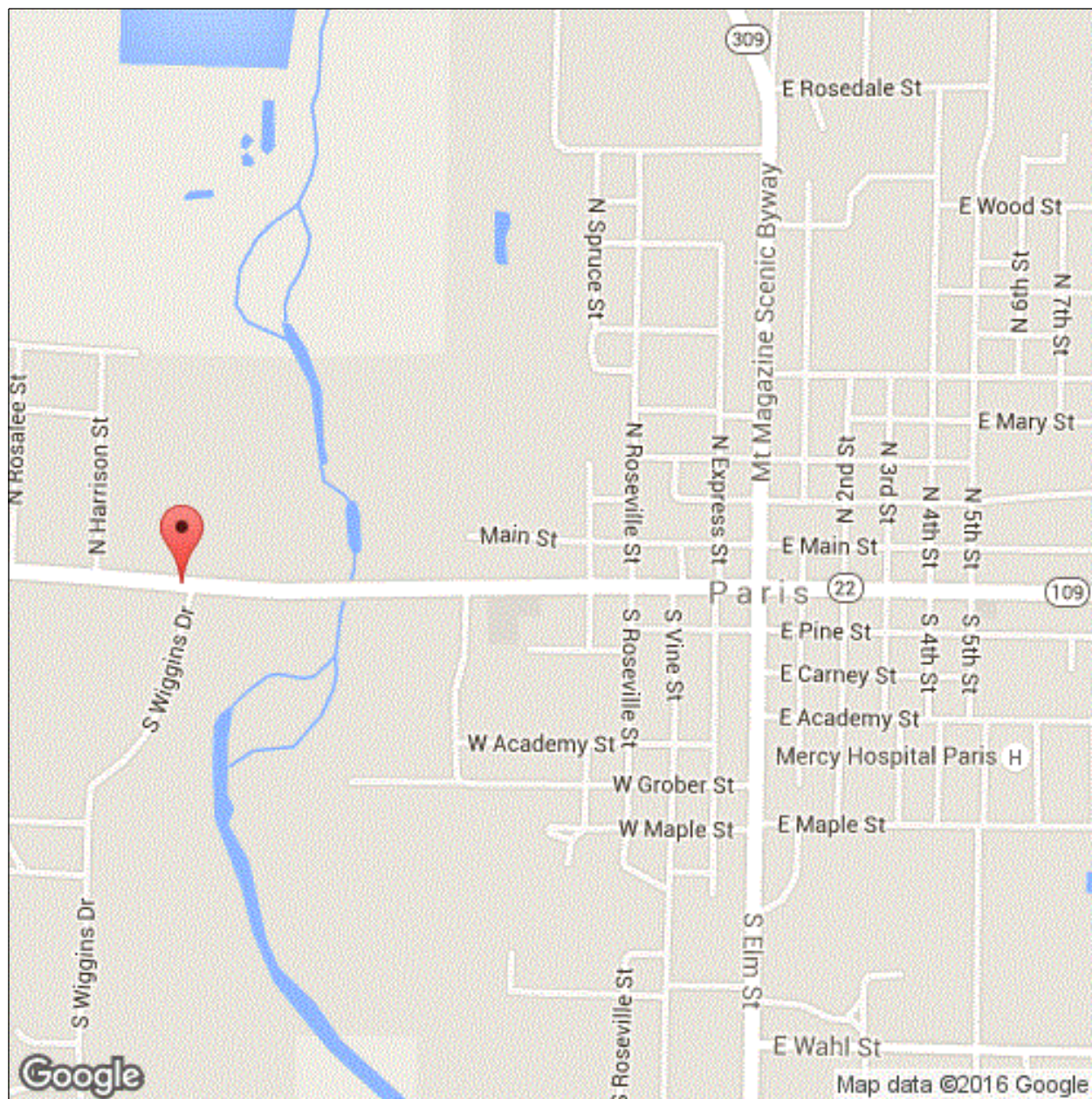
Structure Number: 00381

Inspection Date:

Facility Carried: State Highway 22

Bridge Inspection Report

Location Map



Latitude: 35.29218

Longitude: -93.74139

Inspector:

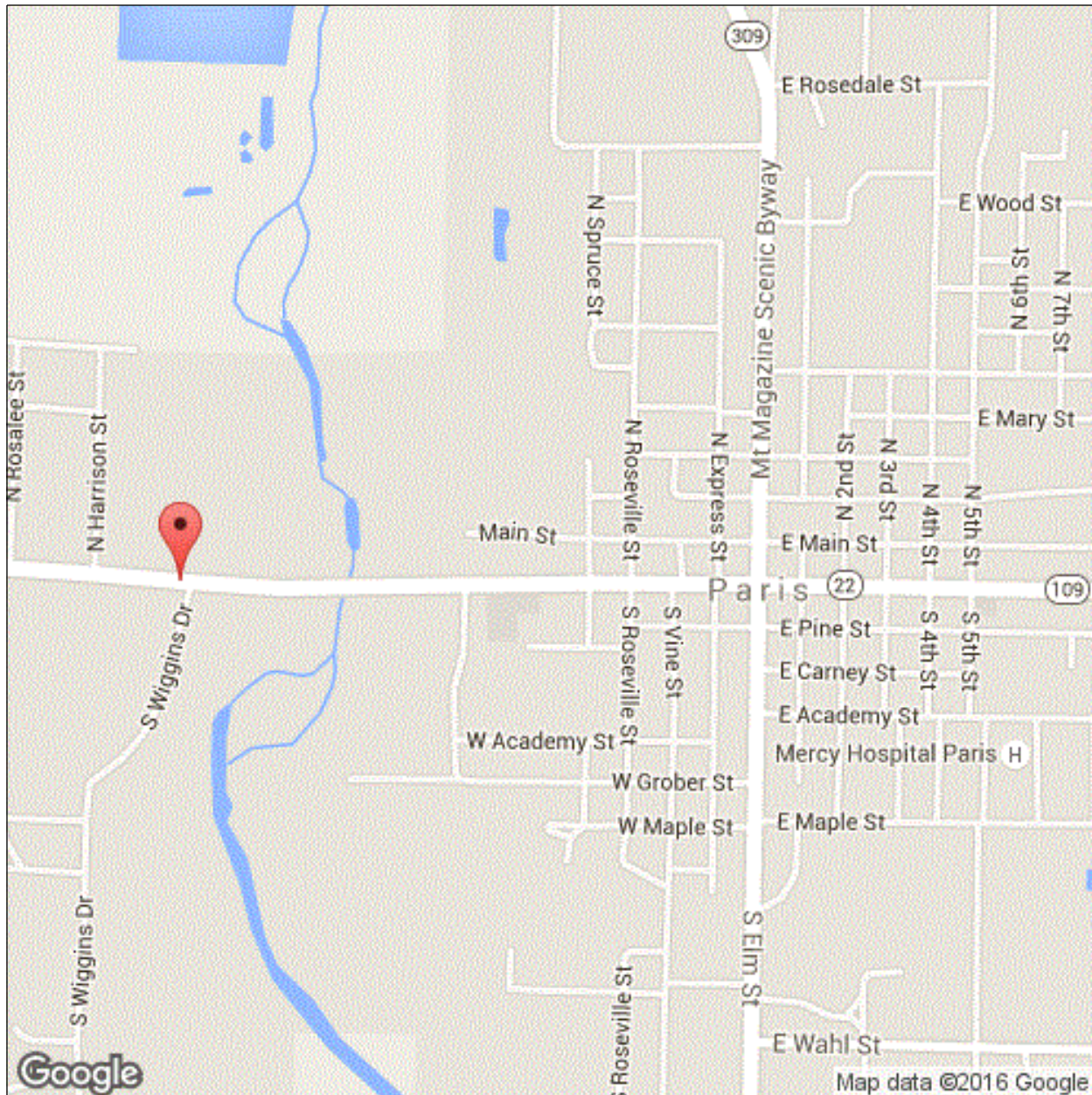
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Location Map



Latitude: 35.29218

Longitude: -93.74139

Inspector:

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Executive Summary

Inspector:

Structure Number: 00381

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National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	05/24/2018
(8) STRUCTURE NUMBER	00381	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 22 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	04 (3) COUNTY CODE 083	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	50900	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Mine Brook-Logan Co.	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	State Highway 22		
(9) LOCATION	10.19 MI E OF FRANKLIN CO		
(11) MILEPOINT 10.188	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000022030 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.29218	(17) LONGITUDE -93.74139		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	7
A) KIND OF MATERIAL/DESIGN: 1 - Concrete		(59) SUPERSTRUCTURE 6	(60) SUBSTRUCTURE 7
B) TYPE OF DESIGN/CONSTR: 04 - Tee Beam		(61) CHANNEL & CHANNEL PROTECTION 7	(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 1	(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 1928	(106) YEAR RECONSTRUCTED 1957	(31) DESIGN LOAD	4
(42) TYPE OF SERVICE ON 1 UNDER 5		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 00		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 7000	(19) BYPASS DETOUR LENGTH 10	(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.) 28	(49) STRUCTURE LENGTH (ft.) 30	(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.) 40.0		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 42		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 40.0		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 0	(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.) 99.9		36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.) N 0		36D) APPROACH GUARDRAIL ENDS:	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) N 99.9		(113) SCOUR CRITICAL BRIDGES	8
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING 90.7	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	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	06
(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 10067	(115) YEAR OF FUTURE ADT 2028	(103) TEMP STRUCTURE	
		(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.	1200	sq. ft.	1195	2	3	0
	-One baseball size spall with exposed reinforcing steel visible from the undersurface of Bays 3 & 4. No apparent noteworthy section loss to the exposed reinforcing steel. -Minor cracking in the asphalt overlay.						
1090 - Exposed Rebar		2			2		
1120 - Efflorescence/Rust Staining		3				3	
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	210	ft.	175	30	5	0
	-Vertical hairline flexure cracking at approximately 12" centers visible at some Tee beams. -Girder 3 has holes drilled into the side of beam used to hang a water gap that is no longer in use. -Girder 5 has shallow concrete spalls with exposed reinforcing steel adjacent to Bent 2. -Exposed reinforcing steel has no apparent measurable section loss at this inspection.						
1090 - Exposed Rebar		5				5	
1130 - Cracking (RC and Other)		30			30		
234 - Reinforced Concrete Pier Cap	1- Ben.	100	ft.	84	12	4	0
	-Vertical cracks in the back walls. -Spalls in Bent # 1 abutment at the ends adjacent to the wing walls.						
1080 - Delamination/Spall/Patched Area		2				2	
1120 - Efflorescence/Rust Staining		1				1	
1130 - Cracking (RC and Other)		13			12	1	

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Pictures

PHOTO 1

Description 00381 Layout.pdf

PHOTO 2

Description

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Sketches

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Maintenance Needs

Date Reported: 6/29/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Approach Roadway

The approach roadway has minor erosion behind the Northeast wing wall.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Erosion behind the Northeast wing wall.

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Maintenance Needs

Date Reported: 6/29/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Superstructure.

Girder # 3 & 5 has concrete spalls with exposed reinforcing steel.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Girder # 3 spalling with exposed reinforcing steel.