

Bridge Inspection Report

00381

State Highway 22

over

Mine Brook-Logan Co.



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

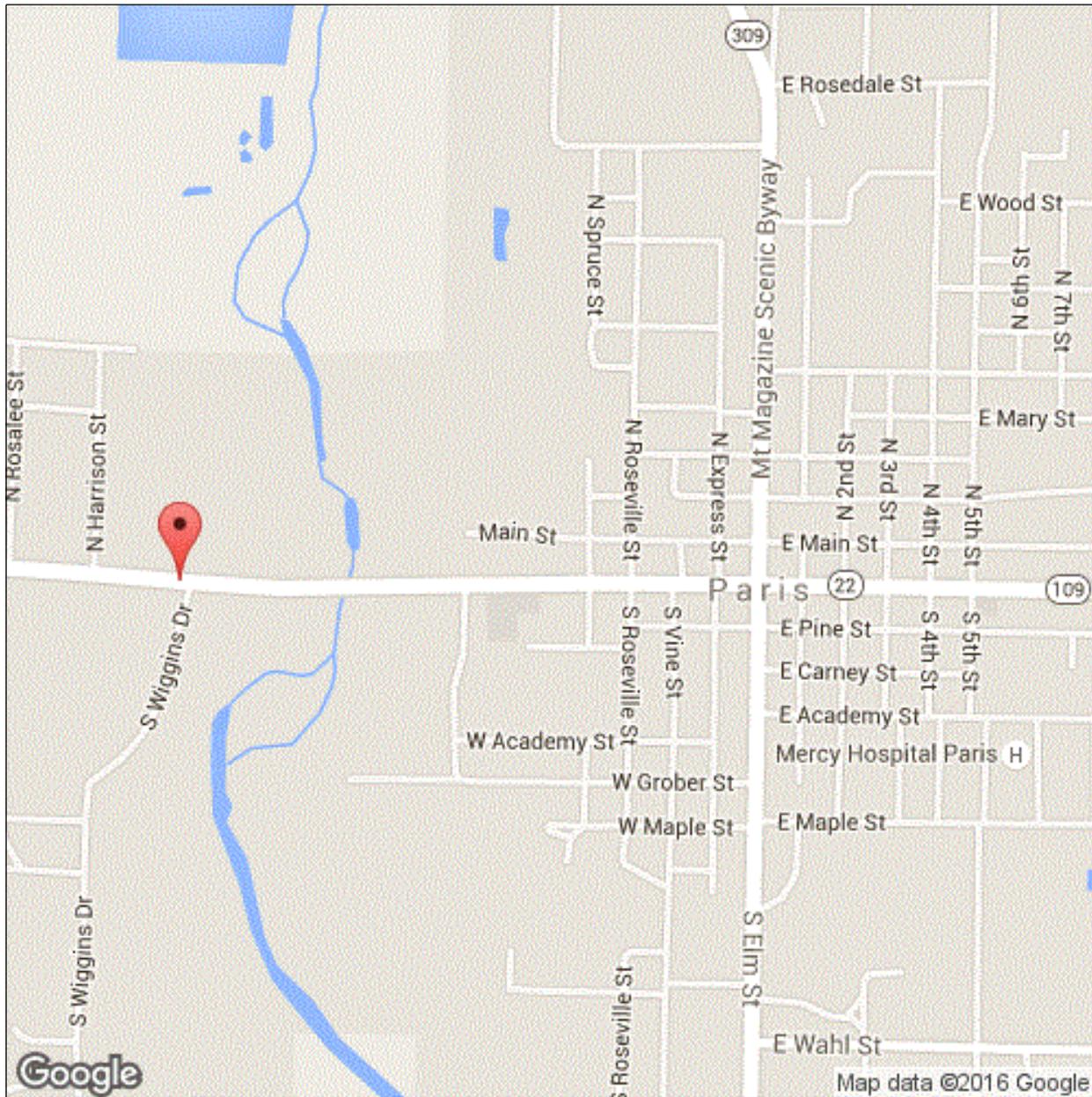
Structure Number: 00381

Inspection Date:

Facility Carried: State Highway 22

Bridge Inspection Report

Location Map



Latitude: 35.29218

Longitude: -93.74139

Inspector:

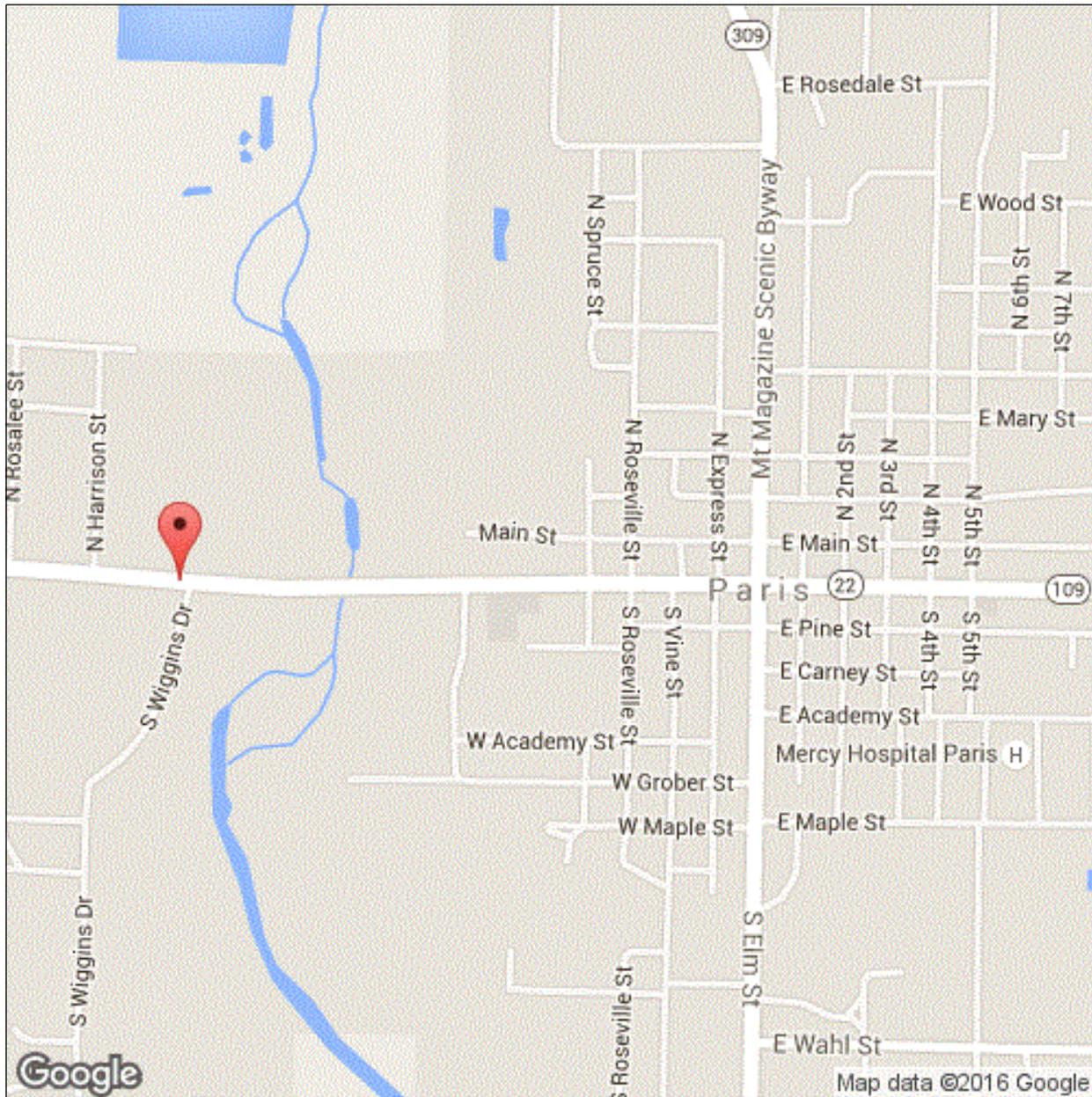
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Location Map



Latitude: 35.29218

Longitude: -93.74139

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Executive Summary

Inspector:

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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			CONDITION			
(9) LOCATION	10.19 MI E OF FRANKLIN CO			(58) DECK	7		
(11) MILEPOINT 10.188	(12) BASE HIGHWAY NETWORK 1			(59) SUPERSTRUCTURE 6	(60) SUBSTRUCTURE 7		
(13A) LRS INVENTORY ROUTE	0000022030	(13B) SUBROUTE NUMBER 00		(61) CHANNEL & CHANNEL PROTECTION	7	(62) CULVERT N	
(16) LATITUDE 35.29218	(17) LONGITUDE -93.74139			LOAD RATING AND POSTING			
(98A) BORDER BRIDGE CODE				(31) DESIGN LOAD	4		
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT			(63) METHOD USED TO DETERMINE OPERATING RATING	1		
STRUCTURE TYPE AND MATERIAL				(64) OPERATING RATING	60.0		
(43) STRUCTURE TYPE, MAIN				(65) METHOD USED TO DETERMINE INVENTORY RATING	1		
A) KIND OF MATERIAL/DESIGN:	1 - Concrete			(66) INVENTORY RATING	36.0		
B) TYPE OF DESIGN/CONSTR:	04 - Tee Beam			(70) BRIDGE POSTING	5		
(44) STRUCTURE TYPE, APPROACH SPANS				(41) STRUCTURE OPEN/POSTED/CLOSED	A		
A) KIND OF MATERIAL/DESIGN:	0 - Other			APPRAISAL			
B) TYPE OF DESIGN/CONSTR:	00 - Other			(67) STRUCTURAL EVALUATION	6		
(45) NUMBER OF SPANS IN MAIN	1	(46) NUMBER OF APPROACH 0		(68) DECK GEOMETRY	5		
(107) DECK STRUCTURE TYPE	1	(108A) WEARING SURFACE 6		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N		
(108B) DECK MEMBRANE	0	(108C) DECK PROTECTION 0		(71) WATERWAY ADEQUACY	8		
AGE OF SERVICE				(72) APPROACH ROADWAY ALIGNMENT	8		
(27) YEAR BUILT	1928	(106) YEAR RECONSTRUCTED 1957		(36) TRAFFIC SAFETY FEATURE			
(42) TYPE OF SERVICE	ON 1	UNDER 5		36A) BRIDGE RAILINGS:	0		
(28) LANES	ON 02	UNDER 00		36B) TRANSITIONS:	0		
(29) AVERAGE DAILY TRAFFIC	7000	(19) BYPASS DETOUR LENGTH 10		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	8		
GEOMETRIC DATA				SUFFICIENCY RATING	90.7	STATUS 0	
(48) LENGTH OF MAX SPAN (ft.)	28	(49) STRUCTURE LENGTH (ft.) 30		CLASSIFICATION			
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0	RIGHT 0		(112) NBIS BRIDGE LENGTH	Y		
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	40.0			(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0		
(52) DECK WIDTH, OUT-TO-OUT (ft.)	42			(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	06		
(32) APPROACH ROADWAY WIDTH (ft.)	40.0			(100) STRAHNET HIGHWAY DESIGNATION	0		
(33) BRIDGE MEDIAN	0	(34) SKEW (DEG.) 0		(101) PARALLEL STRUCTURE DESIGNATION	N		
(35) STRUCTURE FLARED	0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99		(102) DIRECTION OF TRAFFIC	2		
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	99.9			(103) TEMP STRUCTURE			
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99			(105) FEDERAL LANDS HIGHWAYS	0		
(54) VERTICAL UNDER CLEARANCE (ft.)	N		0	(110) DESIGNATED NATIONAL NETWORK	0		
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N		99.9	(20) TOLL	3		
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0			(21) MAINTENANCE RESPONSIBILITY	01		
PROPOSED IMPROVEMENTS				(22) OWNER	01		
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY			(37) HISTORICAL	5		
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0			NAVIGATION DATA			
(94) BRIDGE IMPROVEMENT COST (\$)	0			(38) NAVIGATION CONTROL	0		
(95) ROADWAY IMPROVEMENT COST (\$)	0			(111) PIER OR ABUTMENT PROTECTION	1		
(96) TOTAL PROJECT COST	0			(39) NAV VERT CLEARANCE (ft.)	0		
(97) YEAR OF IMPROVEMENT COST ESTIMATE				(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0		
(114) FUTURE ADT	10067	(115) YEAR OF FUTURE ADT 2028		(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.