

# Bridge Inspection Report

**A0488**  
**SH 22-Logan Co.**  
**over**  
**East Fork Hagwood Creek**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

## TABLE OF CONTENTS

	<b>PAGE NUMBER</b>
LOCATION MAP	3
NATIONAL BRIDGE INVENTORY	6
ELEMENTS	7
PICTURES	9
SKETCHES	10

Inspector:

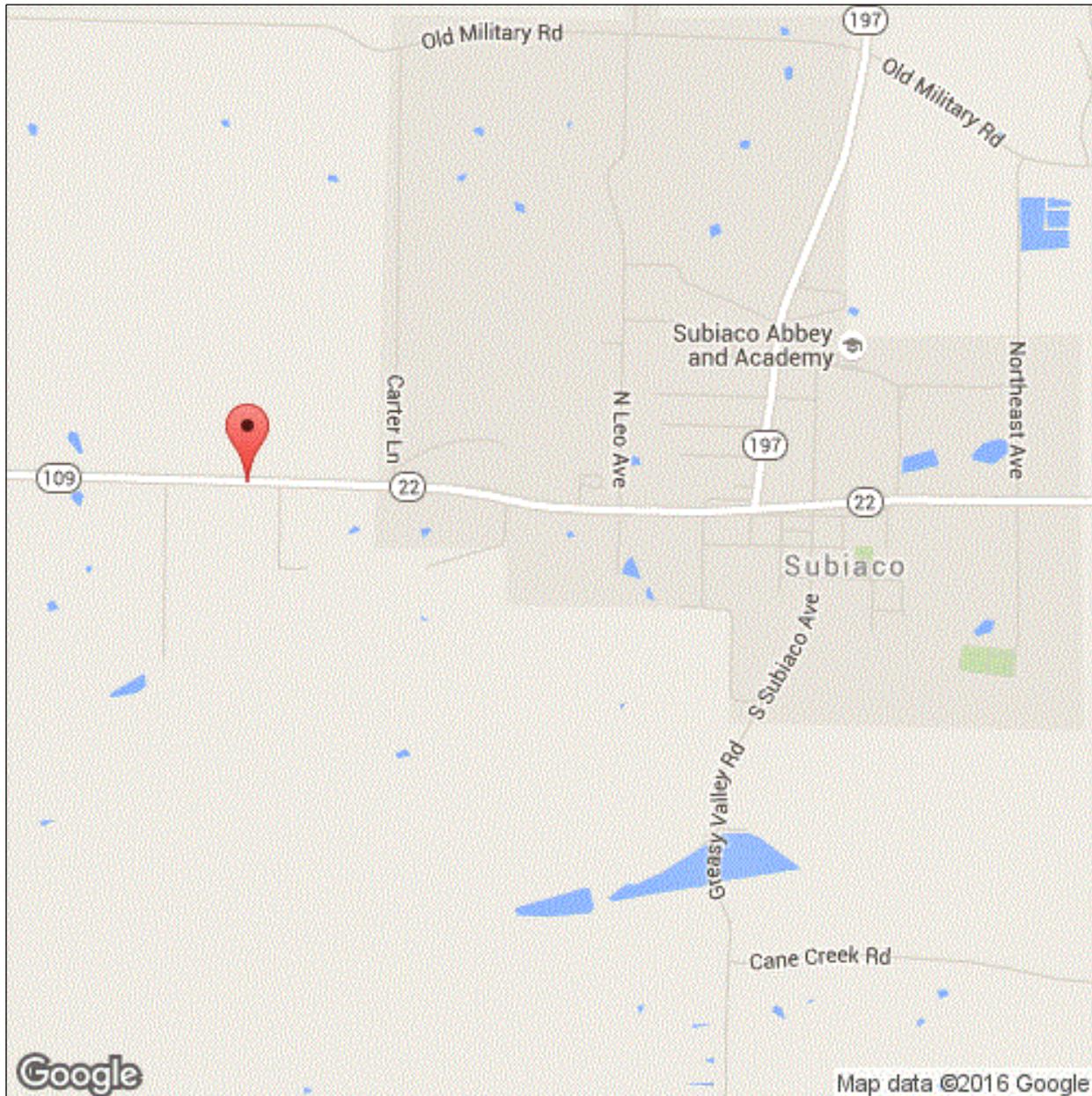
Structure Number: A0488

Inspection Date:

Facility Carried: SH 22-Logan Co.

### Bridge Inspection Report

### Location Map



Latitude: 35.29455

Longitude: -93.65686

Inspector:

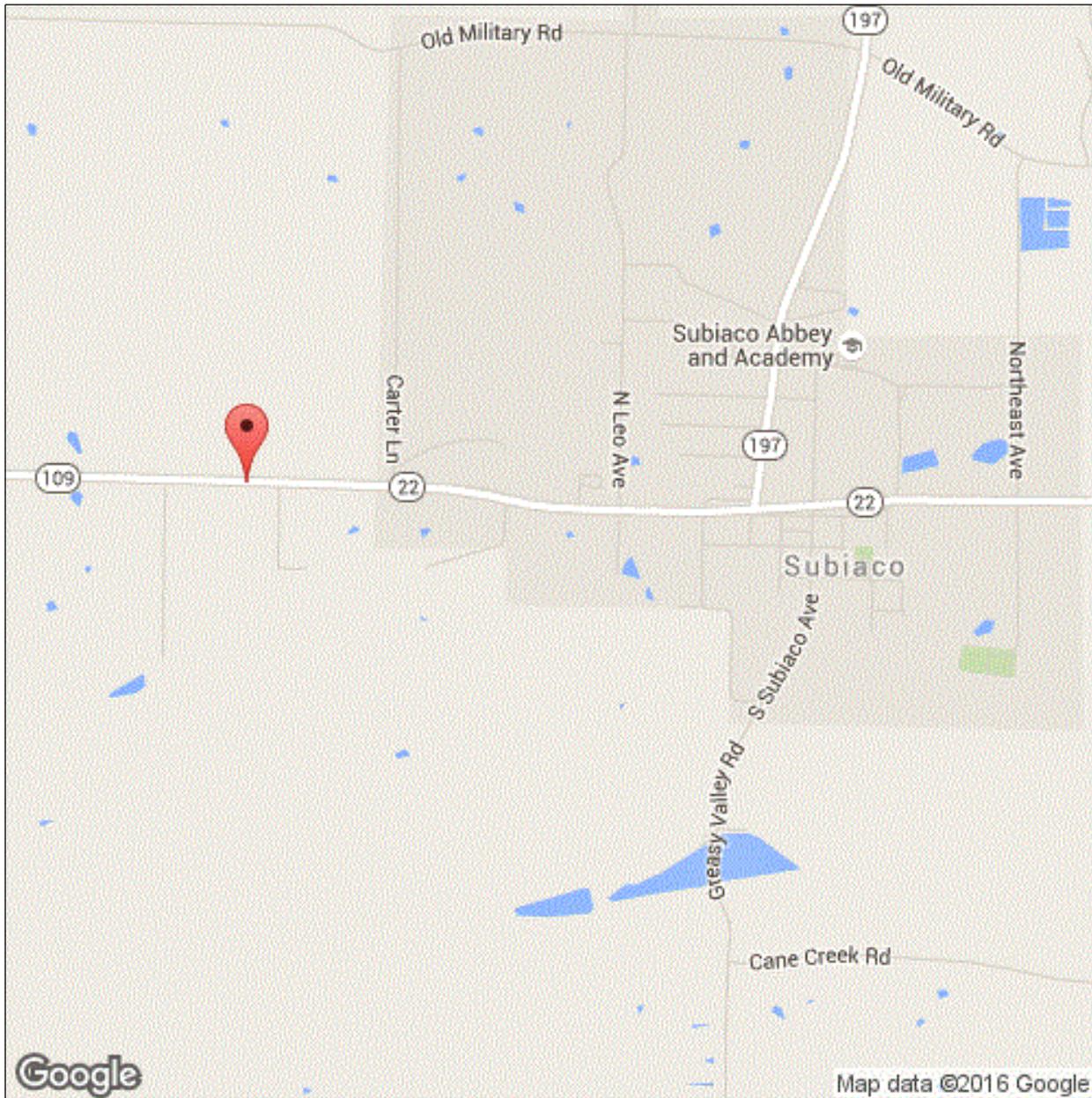
Structure Number: A0488

Inspection Date:

Facility Carried: SH 22-Logan Co.

### Bridge Inspection Report

### Location Map



Latitude: 35.29455

Longitude: -93.65686

**Inspector:**

**Inspection Date:**

**Structure Number:** A0488

**Facility Carried:** SH 22-Logan Co.

**Bridge Inspection Report**

**Executive Summary**

Inspector:

Structure Number: A0488

Inspection Date:

Facility Carried: SH 22-Logan Co.

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION				INSPECTIONS			
(1) STATE CODE	056 - Arkansas			(90) INSPECTION DATE	06/11/2018		
(8) STRUCTURE NUMBER	A0488			(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	00000			B. UNDERWATER INSPECTION	N		
(6) FEATURES INTERSECTED	East Fork Hagwood Creek			C. OTHER SPECIAL	N		
(7) FACILITY CARRIED	SH 22-Logan Co.			CONDITION			
(9) LOCATION	4.1 MI EAST JCT HWY 309			(58) DECK	6		
(11) MILEPOINT 14.987	(12) BASE HIGHWAY NETWORK 1			(59) SUPERSTRUCTURE 7	(60) SUBSTRUCTURE 6		
(13A) LRS INVENTORY ROUTE	0000022030	(13B) SUBROUTE NUMBER 00		(61) CHANNEL & CHANNEL PROTECTION 7	(62) CULVERT N		
(16) LATITUDE 35.29455	(17) LONGITUDE -93.65686			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	47.0		
(43) STRUCTURE TYPE, MAIN				(65) METHOD USED TO DETERMINE INVENTORY RATING	1		
A) KIND OF MATERIAL/DESIGN:	1 - Concrete			(66) INVENTORY RATING	28.0		
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 1963			(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 5715	(19) BYPASS DETOUR LENGTH 6			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	87.1	STATUS 0	
(48) LENGTH OF MAX SPAN (ft.) 28	(49) STRUCTURE LENGTH (ft.) 30			CLASSIFICATION			
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 1.2	RIGHT 1.2		(112) NBIS BRIDGE LENGTH	Y		
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	40.4			(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0		
(52) DECK WIDTH, OUT-TO-OUT (ft.)	42.5			(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.)	42.0			(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 35	(75B) WORK DONE BY 1			(37) HISTORICAL	5		
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	30			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	57			(39) NAV VERT CLEARANCE (ft.)	0		
(97) YEAR OF IMPROVEMENT COST ESTIMATE 1994				(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0		
(114) FUTURE ADT 7114	(115) YEAR OF FUTURE ADT 2028			(40) NAV HORIZONTAL CLEARANCE (ft.)	0		

Inspector:

Structure Number: A0488

Inspection Date:

Facility Carried: SH 22-Logan Co.

Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>16 - Reinforced Concrete Top Flange</b>	1- Ben.	1275	sq. ft.	1239	26	10	0
	-Transverse cracks at approx. 6' centers with stains visible from the undersurface of each bay between concrete deck girders. -One 10" area of concrete deterioration visible from the undersurface of the Rt overhang.						
1080 - Delamination/Spall/Patched Area		1				1	
1090 - Exposed Rebar		9				9	
1120 - Efflorescence/Rust Staining		26			26		
510 - Wearing Surfaces		1212	sq. ft.	893	0	319	0
3220 - Crack (Wearing Surface)		319				319	
<b>110 - Reinforced Concrete Open Girder/Beam</b>	1- Ben.	242	ft.	157	84	1	0
	-Vertical hairline flexure cracks at approx 12" centers. -Isolated areas of hairline map cracks. -Girder 7 at Bent 2 has a shallow 4" spall with exposed reinforcing steel with a light rust coating.						
1090 - Exposed Rebar		1				1	
1130 - Cracking (RC and Other)		84			84		
<b>205 - Reinforced Concrete Column</b>	1- Ben.	4	each	4			
	-No apparent problems at this inspection.						
<b>220 - Reinforced Concrete Pile Cap/Footing</b>	1- Ben.	124	ft.	124			
	-Bent 1 footing is exposed, but not undermined, at this inspection.						
<b>234 - Reinforced Concrete Pier Cap</b>	1- Ben.	124	ft.	100	17	7	0
	-Medium abrasion at the base of Bent 1 with a vertical crack RT of centerline. -Bent 2 has vertical and map cracking with delaminated areas & spalls in the bearing area of Girders 2 & 6 over the original construction wing wall juncture where structure was widened at a later date. -The Lt side of Bent 2 has a 2" X 2" spall with exposed reinforcing steel adjacent to Girder 2. -The Rt side of Bent 2 has a 2" X 2" delaminated area adjacent to Girder 6.						
1080 - Delamination/Spall/Patched Area		5				5	
1090 - Exposed Rebar		2				2	
1130 - Cracking (RC and Other)		17			17		
<b>330 - Metal Bridge Railing</b>	1- Ben.	60	ft.	0	60	0	0
	-The paint system is failing with rust showing through the paint.						
1000 - Corrosion		60			60		
515 - Steel Protective Coating		373	sq. ft.	0	373	0	0

Inspector:

Structure Number: A0488

Inspection Date:

Facility Carried: SH 22-Logan Co.

**Bridge Inspection Report**

**Element Inspection**

3440 - Effectiveness (Steel Protective Coatings)		373			373		
--	--	-----	--	--	-----	--	--

**Inspector:**

**Inspection Date:**

**Structure Number:** A0488

**Facility Carried:** SH 22-Logan Co.

**Bridge Inspection Report**

**Pictures**

PHOTO 1

Description

PHOTO 2

Description

**Inspector:**

**Inspection Date:**

**Structure Number:** A0488

**Facility Carried:** SH 22-Logan Co.

**Bridge Inspection Report**

**Sketches**

Inspector:

Structure Number: A0488

Inspection Date:

Facility Carried: SH 22-Logan Co.

**Bridge Inspection Report**

**Maintenance Needs**

Date Reported: 5/10/2012 12:00:00 AM

Priority: D - Routine

Work Code:

**Deficiency Description:**

Substructure

The Left side of Bent # 2 has a 2' X 2' spall with exposed reinforcing steel adjacent to Girder # 2. The Right side of Bent # 2 has a 2' X 2' delaminated area adjacent to Girder # 6.

**Work Description:**

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Bent # 2 Lt spalling with exposed reinforcing steel.

Stage: Assigned



PHOTO 2 Description Bent # 2 RT delaminated area.

Inspector:

Structure Number: A0488

Inspection Date:

Facility Carried: SH 22-Logan Co.

**Bridge Inspection Report**

**Maintenance Needs**

Date Reported: 05/18/2016

Priority: D - Routine

Work Code:

**Deficiency Description:**

Bridge Rails

The paint system is failing with rust showing through the paint.

**Work Description:**

Date Repairs Completed:

Maintenance Comments:

**Stage: Open**



PHOTO 1 Description The paint system is failing with rust showing through the paint.

**Stage: Monitor**



PHOTO 2 Description Bridge rails have a failing paint system.