

Bridge Inspection Report

M0229
SH 8 S-6 LM 5.24
over
BUTLER BRANCH



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

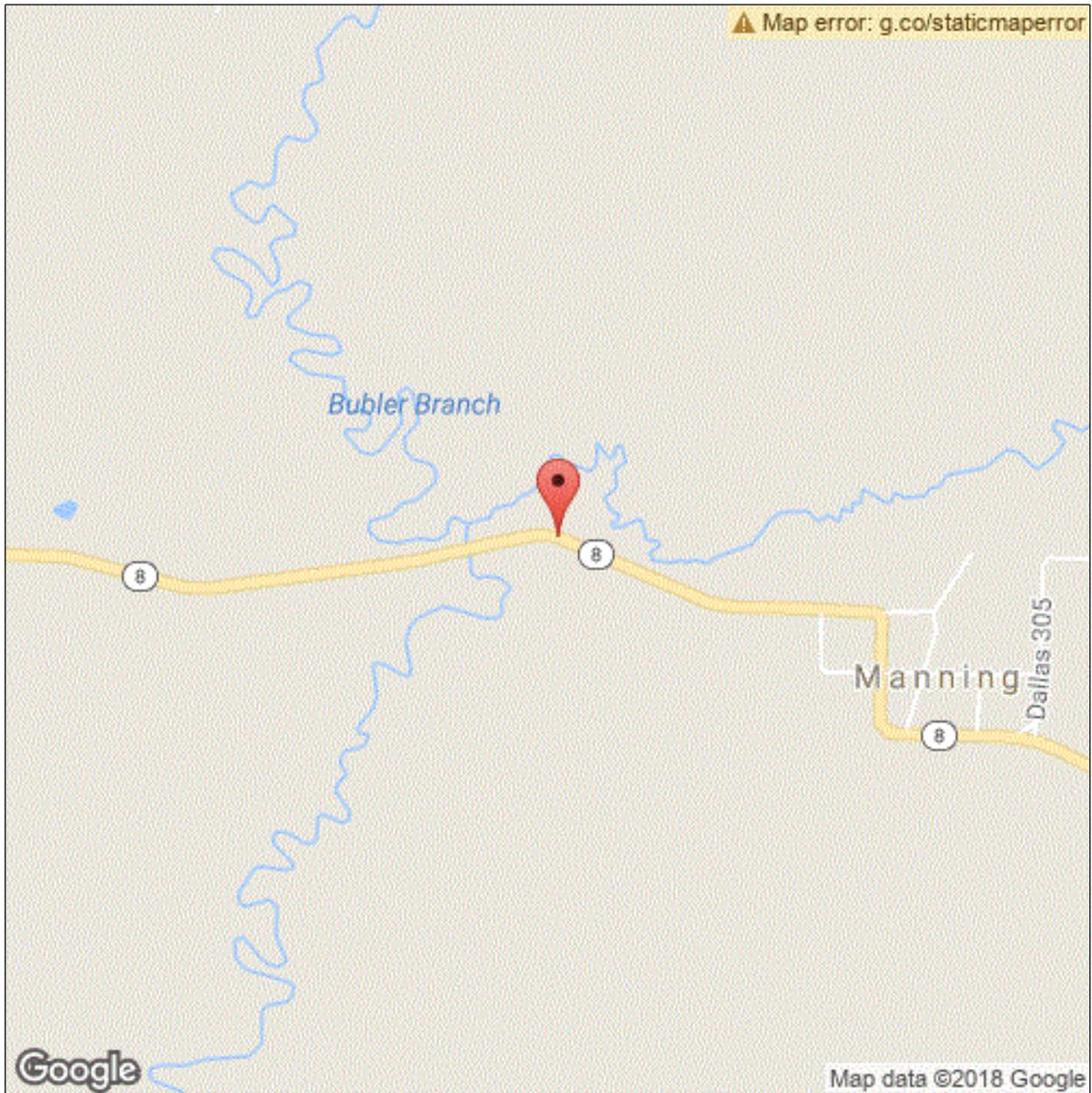
Structure Number: M0229

Inspection Date:

Facility Carried: SH 8 S-6 LM 5.24

Bridge Inspection Report

Location Map



Latitude: 34.02350
Longitude: -92.80040

Inspector:

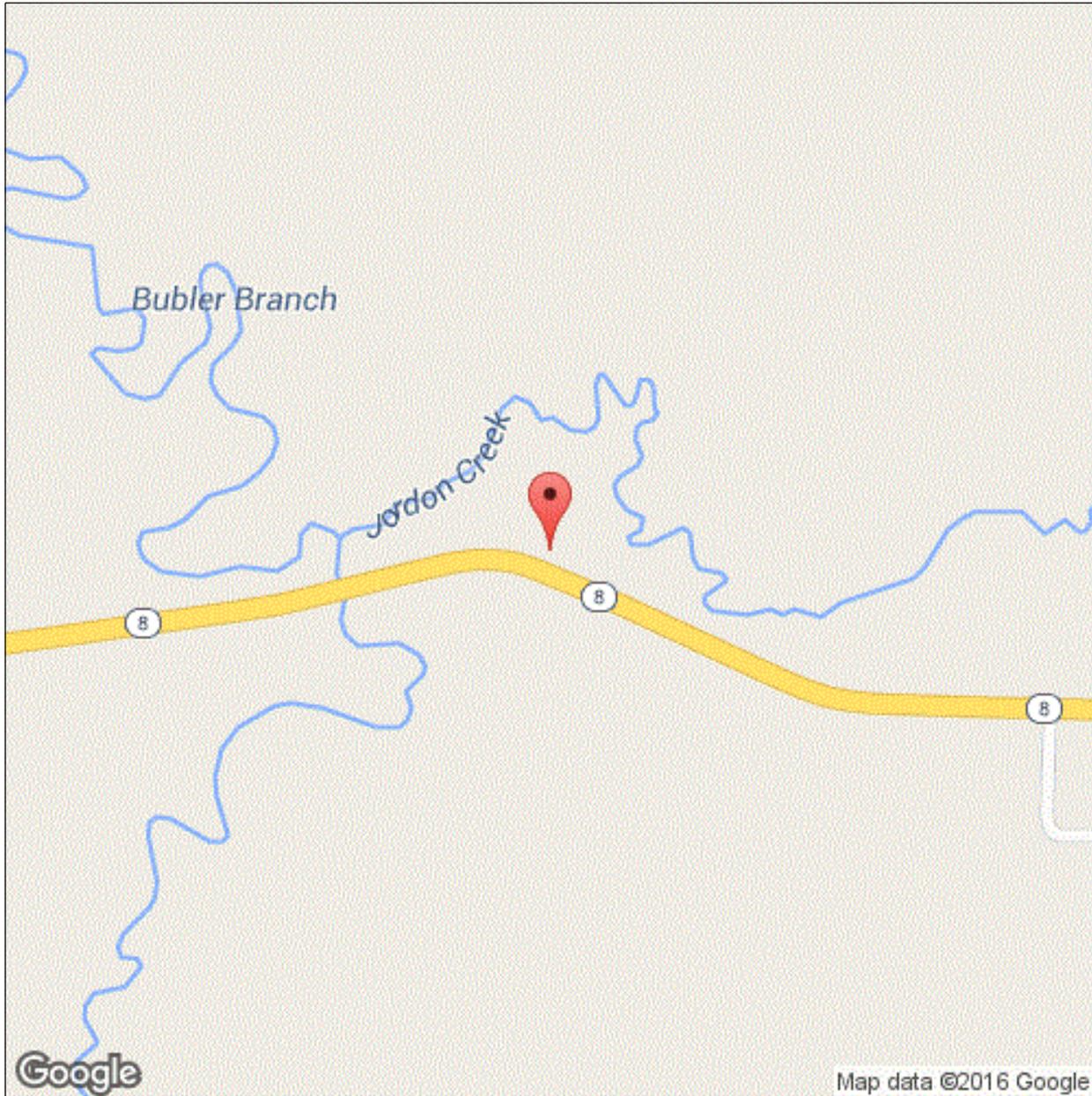
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Executive Summary

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	02/13/2018
(8) STRUCTURE NUMBER	M0229	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 8 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	07 (3) COUNTY CODE 039	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	BUTLER BRANCH	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 8 S-6 LM 5.24	CONDITION	
(9) LOCATION	5.28 MI EAST OF SH 7	(58) DECK	6
(11) MILEPOINT 5.240	(12) BASE HIGHWAY NETWORK 1	(59) SUPERSTRUCTURE	5 (60) SUBSTRUCTURE 5
(13A) LRS INVENTORY ROUTE	0000008060 (13B) SUBROUTE NUMBER 00	(61) CHANNEL & CHANNEL PROTECTION	6 (62) CULVERT N
(16) LATITUDE 34.02350	(17) LONGITUDE -92.80040	LOAD RATING AND POSTING	
(98A) BORDER BRIDGE CODE		(31) DESIGN LOAD	2
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:	22 - Channel 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	5
(45) NUMBER OF SPANS IN MAIN	5 (46) NUMBER OF APPROACH	(68) DECK GEOMETRY	4
(107) DECK STRUCTURE TYPE	2 (108A) WEARING SURFACE	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION	(71) WATERWAY ADEQUACY	6
		(72) APPROACH ROADWAY ALIGNMENT	4
AGE OF SERVICE		(36) TRAFFIC SAFETY FEATURE	
(27) YEAR BUILT	1954 (106) YEAR RECONSTRUCTED	36A) BRIDGE RAILINGS:	0
(42) TYPE OF SERVICE	ON 1 UNDER 5	36B) TRANSITIONS:	0
(28) LANES	ON 02 UNDER 00	36C) APPROACH GUARDRAIL:	0
(29) AVERAGE DAILY TRAFFIC	230 (19) BYPASS DETOUR LENGTH	36D) APPROACH GUARDRAIL ENDS:	0
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(113) SCOUR CRITICAL BRIDGES	5
(109) AVERAGE DAILY TRUCK TRAFFIC	1	SUFFICIENCY RATING	70.7 STATUS 0
GEOMETRIC DATA		CLASSIFICATION	
(48) LENGTH OF MAX SPAN (ft.)	19 (49) STRUCTURE LENGTH (ft.)	(112) NBIS BRIDGE LENGTH	Y
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0 RIGHT 0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	23.6	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	06
(52) DECK WIDTH, OUT-TO-OUT (ft.)	25.2	(100) STRAHNET HIGHWAY DESIGNATION	0
(32) APPROACH ROADWAY WIDTH (ft.)	29.9	(101) PARALLEL STRUCTURE DESIGNATION	N
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(102) DIRECTION OF TRAFFIC	2
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	(103) TEMP STRUCTURE	
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	25.6	(105) FEDERAL LANDS HIGHWAYS	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	(110) DESIGNATED NATIONAL NETWORK	0
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	(20) TOLL	3
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(21) MAINTENANCE RESPONSIBILITY	01
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	(37) HISTORICAL	5
PROPOSED IMPROVEMENTS		NAVIGATION DATA	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(38) NAVIGATION CONTROL	0
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0	(111) PIER OR ABUTMENT PROTECTION	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(39) NAV VERT CLEARANCE (ft.)	0
(95) ROADWAY IMPROVEMENT COST (\$)	0	(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
(96) TOTAL PROJECT COST	0	(40) NAV HORIZONTAL CLEARANCE (ft.)	0
(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(114) FUTURE ADT	339 (115) YEAR OF FUTURE ADT		2028

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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.	2394	sq. ft.	2394			
510 - Wearing Surfaces		2014	sq. ft.	1410	604	0	0
3220 - Crack (Wearing Surface)		604			604		
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	665	ft.	585	0	80	0
Cracks and spalls all spans.							
1080 - Delamination/Spall/Patched Area		40				40	
1090 - Exposed Rebar		40				40	
215 - Reinforced Concrete Abutment	1- Ben.	50	ft.	50			
228 - Timber Pile	1- Ben.	20	each	17	0	3	0
Several have minor checks etc. Pile 1 bent 2 piles 2 & 5 bent 5 are rotten. Pile 5 is beginning to mushroom.							
1140 - Decay/Section Loss		3				3	
234 - Reinforced Concrete Pier Cap	1- Ben.	100	ft.	90	0	10	0
1080 - Delamination/Spall/Patched Area		10				10	
304 - Open Expansion Joint	1- Ben.	100	ft.	100			
330 - Metal Bridge Railing	1- Ben.	190	ft.	0	190	0	0
1000 - Corrosion		190			190		

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Pictures

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Sketches

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Maintenance Needs

Date Reported: 2/14/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Pile 1 Bent 2

Rotten, piles 2 & 5 bent 5 are rotten. Pile 5 is beginning to mushroom.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Pile 1 Bt 2

Stage: Monitor



PHOTO 2 Description M0229 pile 5 bent 5 beginning to mushroom.

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Maintenance Needs

Stage: Monitor



PHOTO 3 Description M0229 pile 2 Bt 5 rotten.

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Maintenance Needs

Date Reported: 2/14/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

PC units spans 1-2-3-4

Numerous cracks and spalls with exposed steel. Minor to moderate sec. loss.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description M0299 span 1 units 3-4-5