

Bridge Inspection Report

02883
SH 115-01-LM 3.34
over
HAYGOOD CR



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

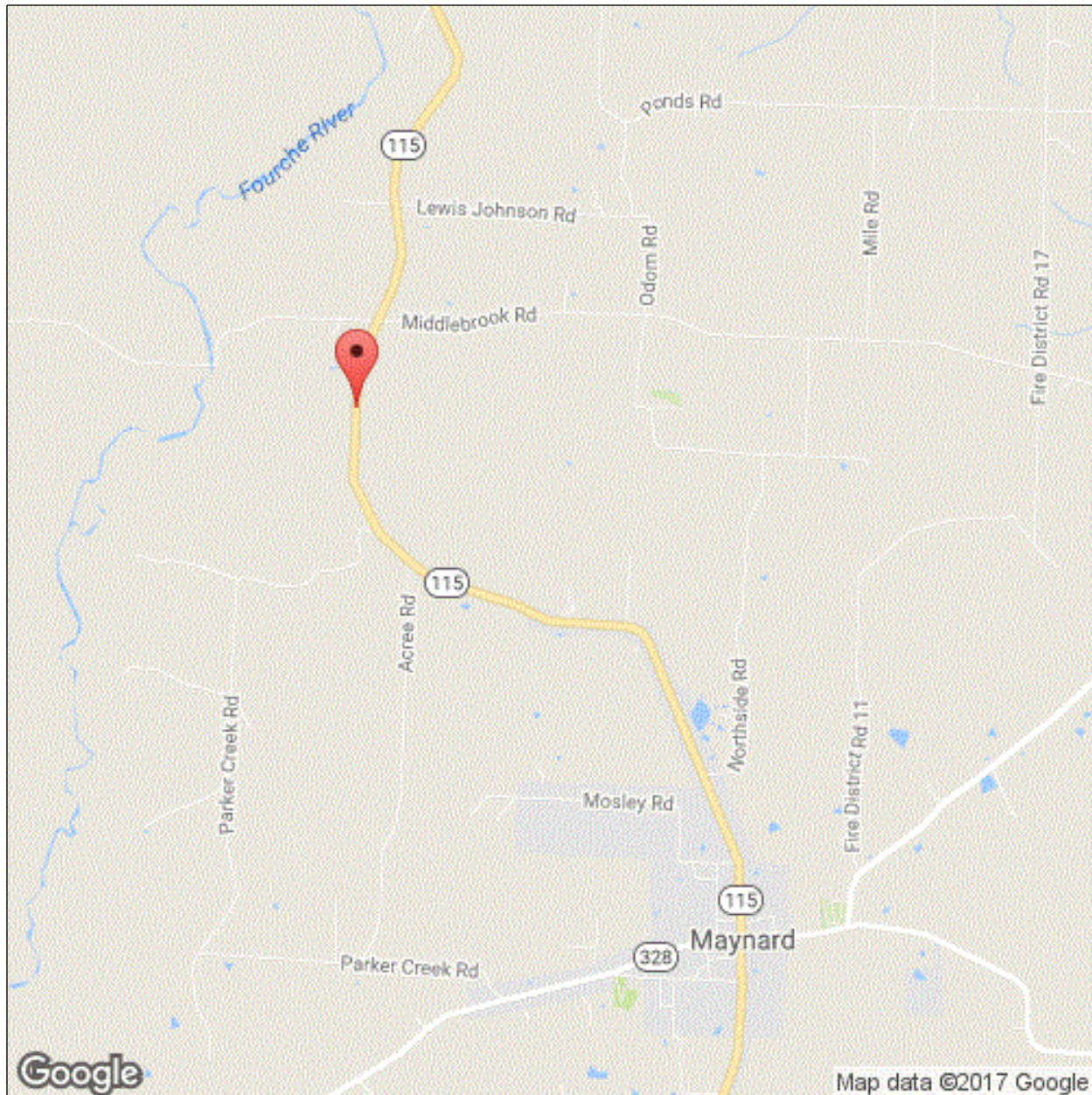
Structure Number: 02883

Inspection Date:

Facility Carried: SH 115-01-LM 3.34

Bridge Inspection Report

Location Map



Latitude: 36.45331

Longitude: -90.92785

Inspector:

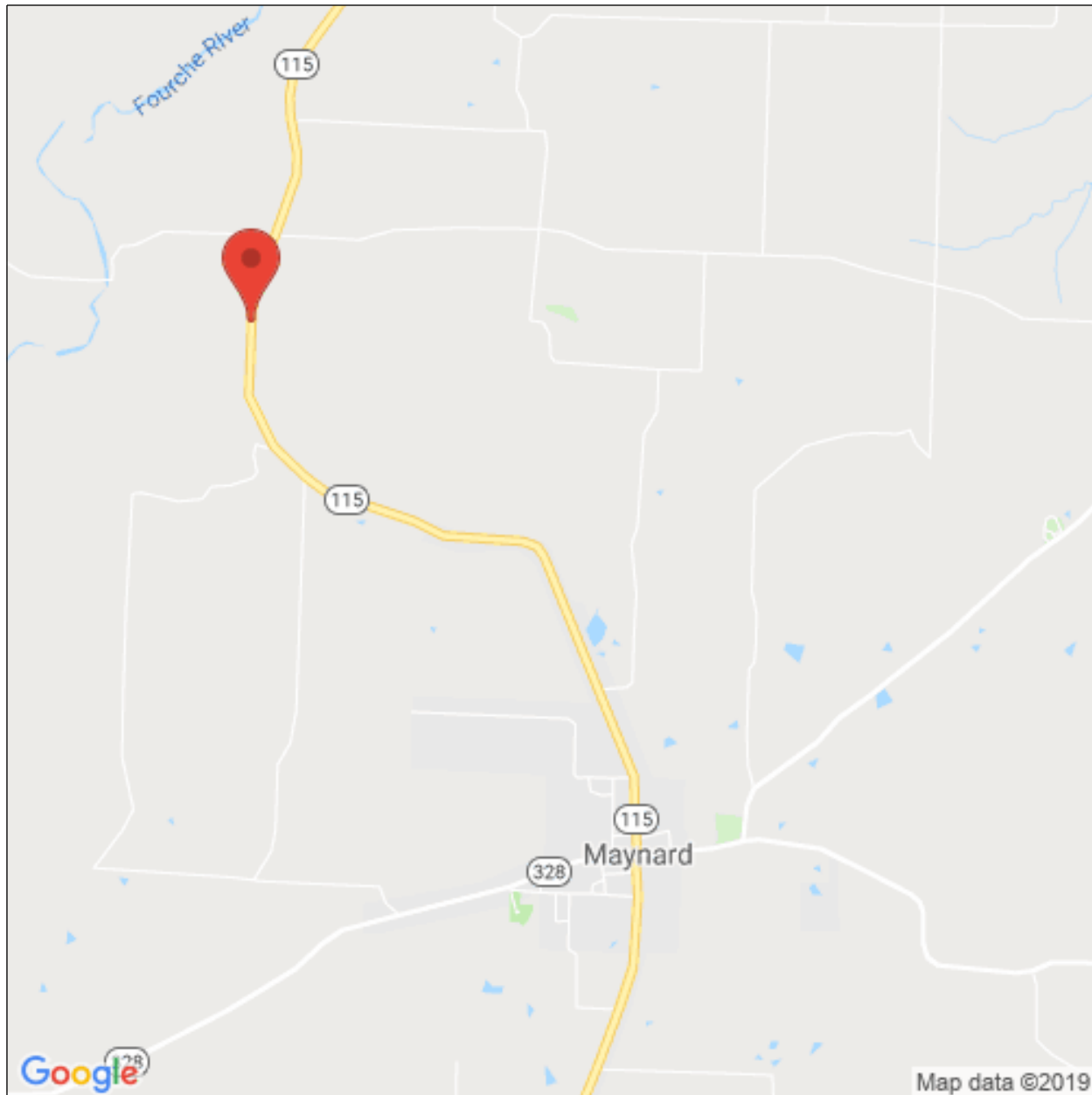
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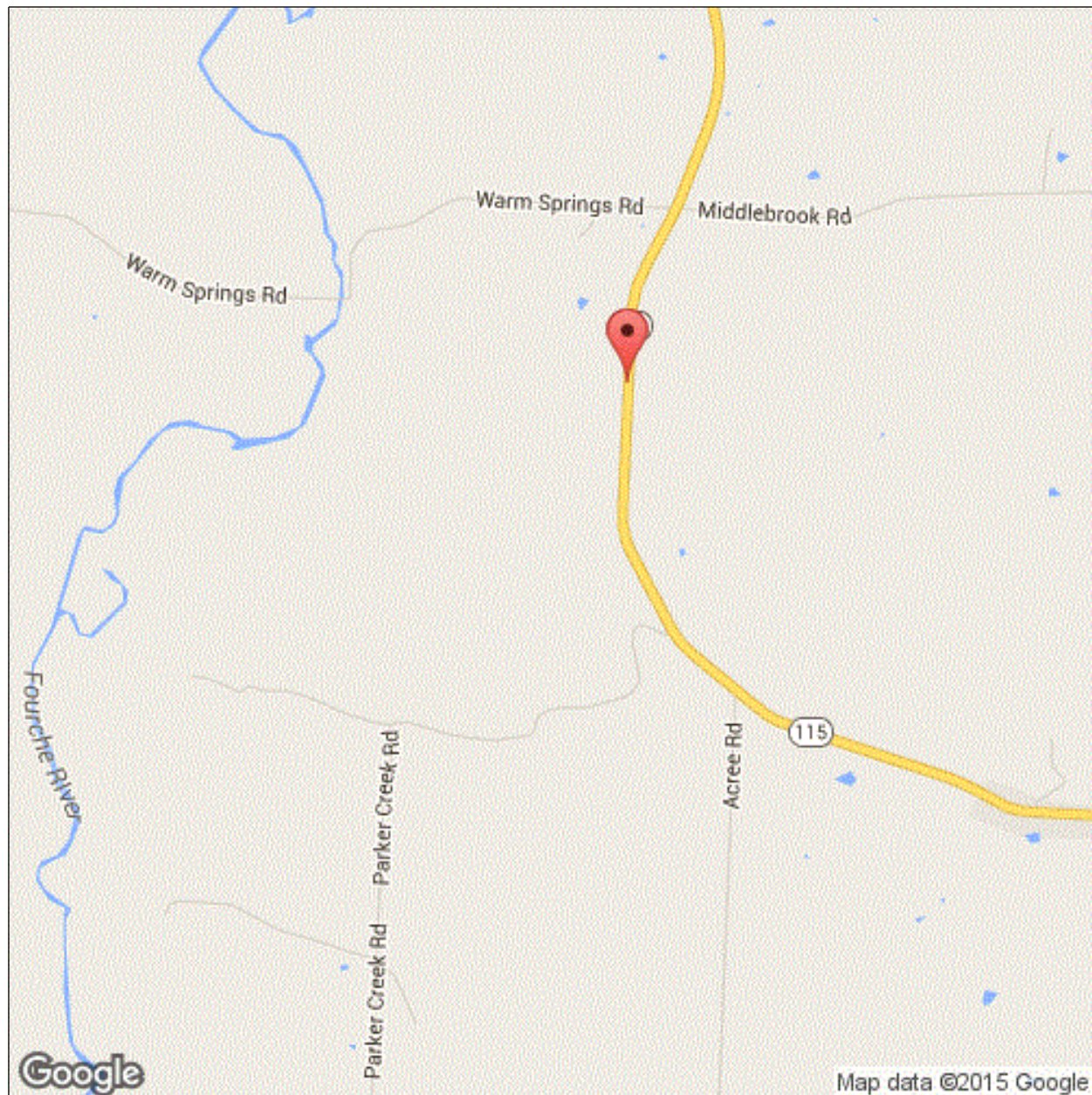
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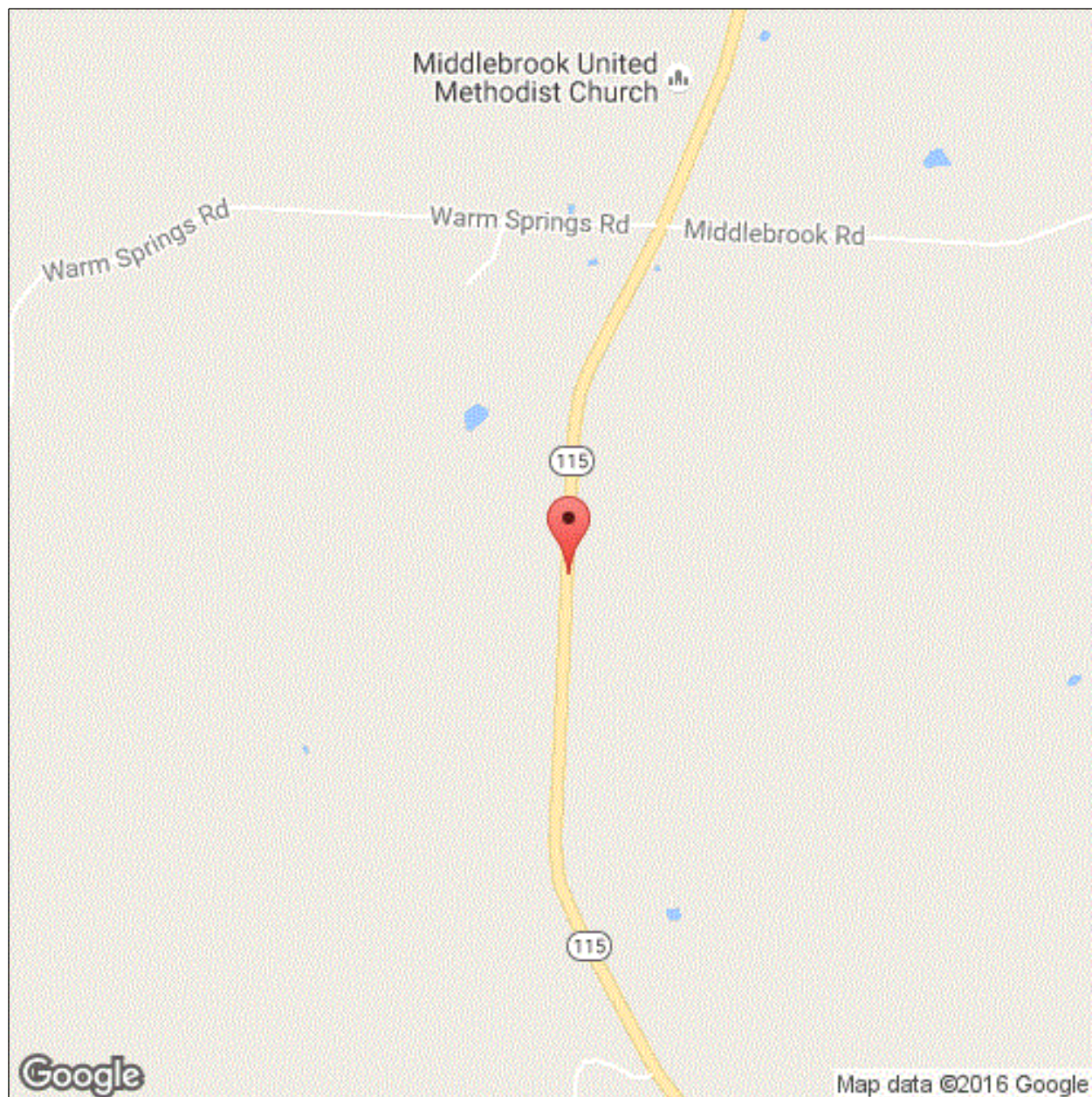
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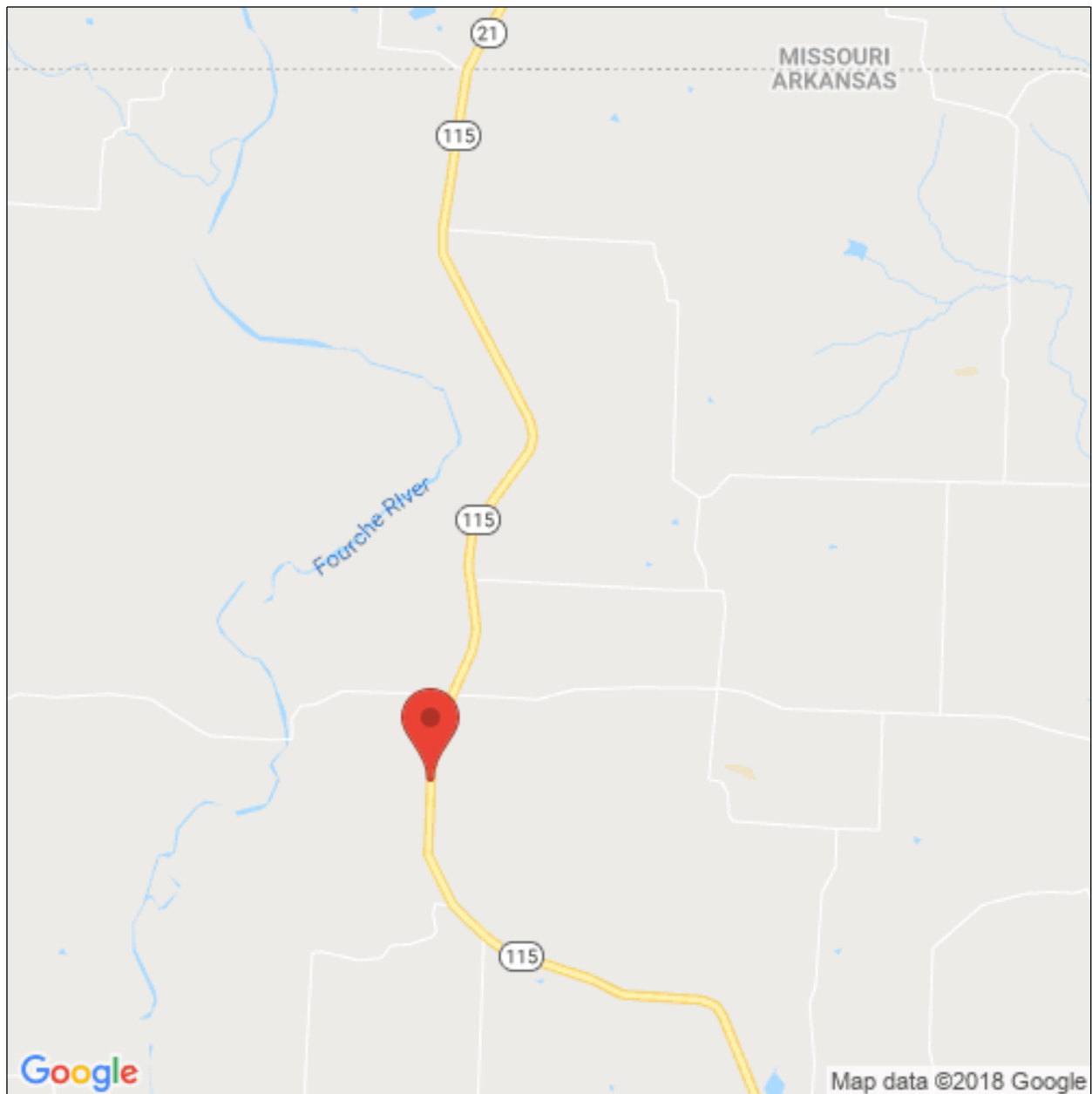
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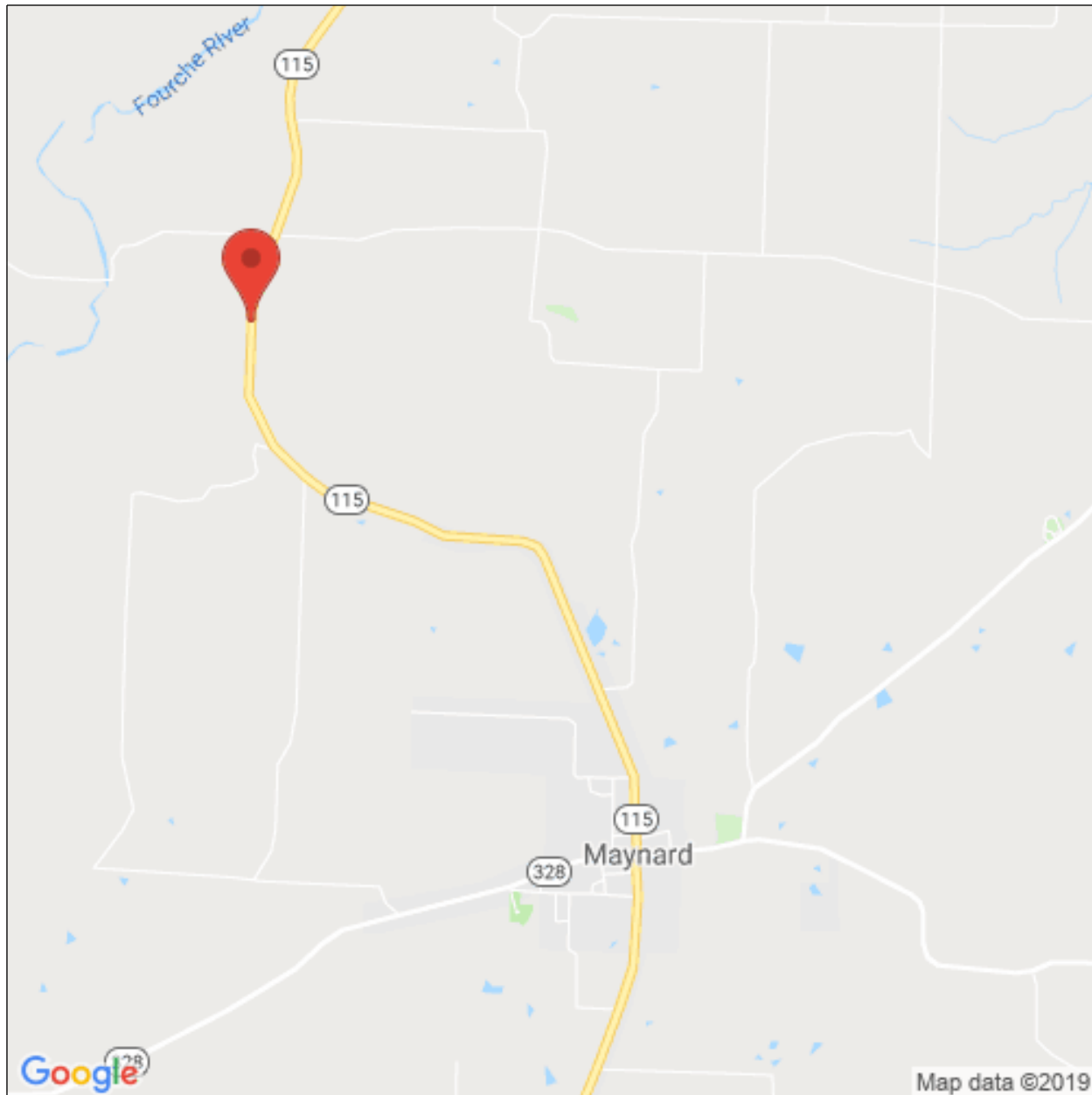
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Bridge Inspection Report

Executive Summary

Inspector:

Structure Number: 02883

Inspection Date:

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	09/03/2019
(8) STRUCTURE NUMBER	02883	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 115 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	10 (3) COUNTY CODE 121	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	HAYGOOD CR	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 115-01-LM 3.34		
(9) LOCATION	3.34 MI S OF MISSOURI LIN		
(11) MILEPOINT 3.340	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000115010 (13B) SUBROUTE NUMBER 01		
(16) LATITUDE	36.45331 (17) LONGITUDE -90.92785		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	4
A) KIND OF MATERIAL/DESIGN: 1 - Concrete		(59) SUPERSTRUCTURE	4 (60) SUBSTRUCTURE 7
B) TYPE OF DESIGN/CONSTR: 22 - Channel Beam		(61) CHANNEL & CHANNEL PROTECTION	6 (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	5 (46) NUMBER OF APPROACH	0	
(107) DECK STRUCTURE TYPE	2 (108A) WEARING SURFACE	6	
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION	0	
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1953 (106) YEAR RECONSTRUCTED	0000	
(42) TYPE OF SERVICE	ON 1 UNDER 5	(31) DESIGN LOAD 2	
(28) LANES	ON 02 UNDER 00	(63) METHOD USED TO DETERMINE OPERATING RATING	
(29) AVERAGE DAILY TRAFFIC	960 (19) BYPASS DETOUR LENGTH	8	
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(64) OPERATING RATING 30	
(109) AVERAGE DAILY TRUCK TRAFFIC	1	(65) METHOD USED TO DETERMINE INVENTORY RATING	
		1	
		(66) INVENTORY RATING 18	
		(70) BRIDGE POSTING 2	
		(41) STRUCTURE OPEN/POSTED/CLOSED P	
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	19 (49) STRUCTURE LENGTH (ft.)	95	
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0.6 RIGHT 0.6	(67) STRUCTURAL EVALUATION 4	
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	23.6	(68) DECK GEOMETRY 4	
(52) DECK WIDTH, OUT-TO-OUT (ft.)	25.2	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL N	
(32) APPROACH ROADWAY WIDTH (ft.)	27.9	(71) WATERWAY ADEQUACY 8	
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 0	(72) APPROACH ROADWAY ALIGNMENT 8	
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.)	99.99	
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	25.3	(36) TRAFFIC SAFETY FEATURE	
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36A) BRIDGE RAILINGS: 0	
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	36B) TRANSITIONS: 0	
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	36C) APPROACH GUARDRAIL: 0	
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	36D) APPROACH GUARDRAIL ENDS: 0	
		(113) SCOUR CRITICAL BRIDGES 8	
		SUFFICIENCY RATING 29.1 STATUS 1	
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	31 (75B) WORK DONE BY	1	
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	122.0	(112) NBIS BRIDGE LENGTH Y	
(94) BRIDGE IMPROVEMENT COST (\$)	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE 0	
(95) ROADWAY IMPROVEMENT COST (\$)	156	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE 06	
(96) TOTAL PROJECT COST	446	(100) STRAHNET HIGHWAY DESIGNATION 0	
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2003	(101) PARALLEL STRUCTURE DESIGNATION N	
(114) FUTURE ADT 1163	(115) YEAR OF FUTURE ADT 2028	(102) DIRECTION OF TRAFFIC 2	
		(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	

Inspector:

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Bridge Inspection Report

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.	2383	sq. ft.	2206	0	129	48
1080 - Delamination/Spall/Patched Area		129		0	0	81	48
1120 - Efflorescence/Rust Staining		48		0	0	48	0
510 - Wearing Surfaces		1900	sq. ft.	1154	95	651	0
3210 - Delamination/Spall/Patched Area/Pothole (Wearing Surfaces)		176		0	95	81	0
3220 - Crack (Wearing Surface)		570		0	0	570	0
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	665	ft.	65	120	448	32
1080 - Delamination/Spall/Patched Area		247		0	120	127	0
1090 - Exposed Rebar		315		0	0	283	32
1120 - Efflorescence/Rust Staining		38		0	0	38	0
205 - Reinforced Concrete Column	1- Ben.	8	each	0	8	0	0
1190 - Abrasion/Wear (PSC/RC)		8		0	8	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	176	ft.	176	0	0	0
330 - Metal Bridge Railing	1- Ben.	190	ft.	0	186	4	0
1000 - Corrosion		186		0	186	0	0
7000 - Damage		4		0	0	4	0

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Bridge Inspection Report

Pictures

PHOTO 1

Description

PHOTO 1

Description

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Bridge Inspection Report

Pictures

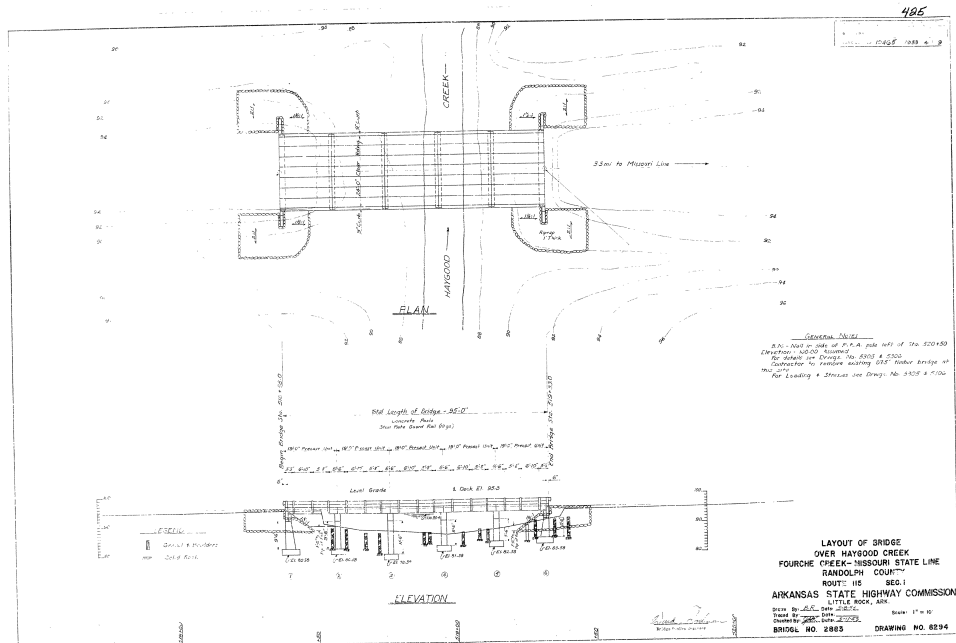


PHOTO 1

Description layout

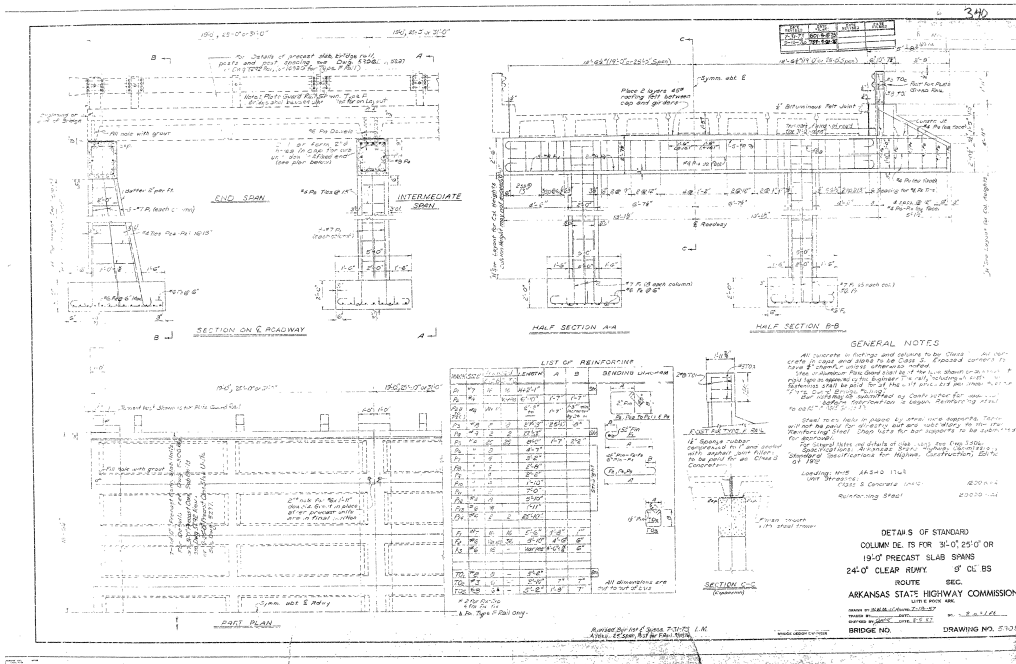


PHOTO 2

Description sub

Inspector:

Inspection Date:

Structure Number: 02883

Facility Carried: SH 115-01-LM 3.34

Bridge Inspection Report

Pictures

PHOTO 2

Description

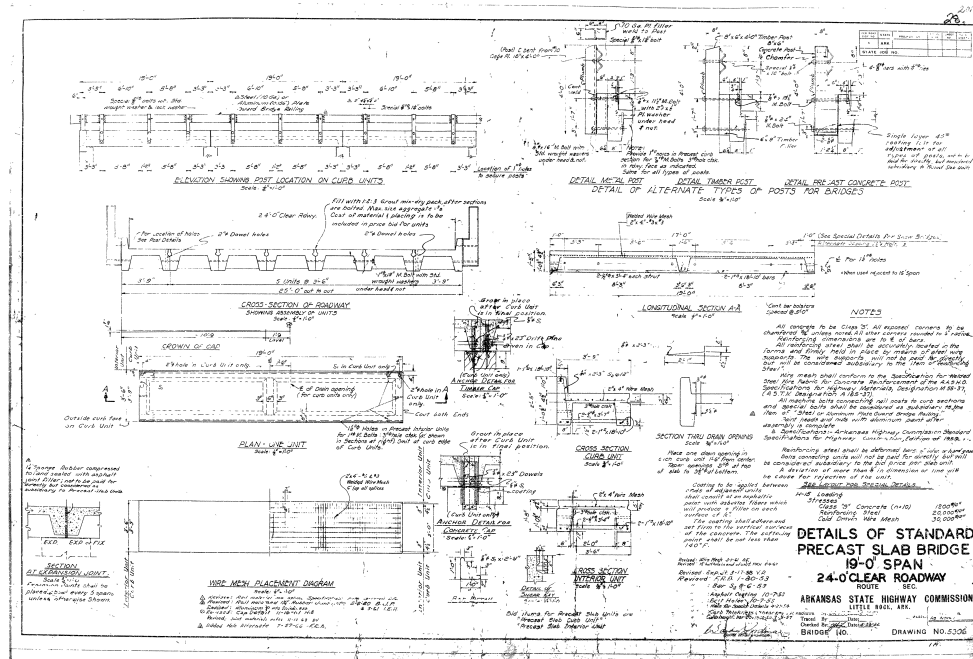


PHOTO 3

Description precast units

Inspector:

Inspection Date:

Structure Number: 02883

Facility Carried: SH 115-01-LM 3.34

Bridge Inspection Report

Sketches

Inspector:

Structure Number: 02883

Inspection Date:

Facility Carried: SH 115-01-LM 3.34

Bridge Inspection Report

Maintenance Needs

Date Reported: 09/10/2019

Priority: B - Pressing; 6 month completion goal

Work Code:

Deficiency Description:

Span 5 unit 2 has spalls with 19' of exposed rebar.

Span 5 unit 3 has spalls with 16' of exposed rebar.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Span 5

Inspector:

Structure Number: 02883

Inspection Date:

Facility Carried: SH 115-01-LM 3.34

Bridge Inspection Report

Maintenance Needs

Date Reported: 09/10/2019

Priority: B - Pressing; 6 month completion goal

Work Code:

Deficiency Description:

Span 3 unit 2 has spalls with 19' of exposed rebar.

Span 3 unit 3 has spalls with 19' of exposed rebar. Concrete has spalled completely away from rebar for 10' on both legs. Exposed rebar has section loss. 5/8" diameter remain on Lt leg, 3/8" remain on Rt leg.

Span 3 unit 4 has spalls with 19' of exposed rebar and excessive efflorescent cracking.

Span 3 unit 7 has spalls with 19' of exposed rebar. 5' is spalled completely away from rebar on Lt leg.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Span 3 unit 3

Stage: Assigned



PHOTO 2 Description Span 3 unit 3

Inspector:

Structure Number: 02883

Inspection Date:

Facility Carried: SH 115-01-LM 3.34

Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description Span 3 unit 4

Stage: Assigned



PHOTO 4 Description Span 3 unit 7

Stage: Assigned



PHOTO 5 Description Span 3 unit 7

Stage: Assigned



PHOTO 6 Description Span 3 overall

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 09/10/2019

Priority: B - Pressing; 6 month completion goal

Work Code:

Deficiency Description:

Span 4 unit 4 has spalls with 19' of exposed rebar.

Span 4 unit 5 has spalls with 19' of exposed rebar.

Span 4 unit 7 has spalls with 19' of exposed rebar.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Span 4 unit 4

Stage: Assigned



PHOTO 2 Description Span 4 unit 5

Inspector:

Structure Number: 02883

Inspection Date:

Facility Carried: SH 115-01-LM 3.34

Bridge Inspection Report

Maintenance Needs

Date Reported: 2/1/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Asphalt overlay top of deck.

Several small spalls and delaminated areas to deck especially at span 1, mostly patched with asphalt see 2014 photos.

Work Description:

Asphalt wearing surface received a chip seal in 2016

Date Repairs Completed: 11/18/2016

Maintenance Comments:

observed during inspection

Stage: Monitor



PHOTO 1 Description

Inspector:

Structure Number: 02883

Inspection Date:

Facility Carried: SH 115-01-LM 3.34

Bridge Inspection Report

Maintenance Needs

Date Reported: 09/10/2019

Priority: B - Pressing; 6 month completion goal

Work Code:

Deficiency Description:

Span 1 unit 3 has spalls with 19' of exposed rebar.

Span 1 unit 5 has spalls with 18' of exposed rebar. Lt leg has 13' where concrete has completely spalled away from rebar. Exposed rebar has section loss. ($\frac{3}{4}$ " remains near bent 1)

Span 2 unit 3 has spalls with 15' of exposed rebar. Lt and Rt legs have approx. 4' where concrete has spalled completely away from rebar. Exposed rebar has section loss. ($\frac{3}{4}$ " remains).

Span 2 unit 5 has spalls with 9' of exposed rebar and 9' delaminated.

Span 2 unit 6 has spalls with 19' of exposed rebar and excessive efflorescent cracking.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Span 2

Stage: Assigned



PHOTO 2 Description Span 1 unit 3

Inspector:

Inspection Date:

Structure Number: 02883

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Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description Span 1 unit 5

Inspector:

Structure Number: 02883

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 09/03/2019

Priority: D - Routine

Work Code:

Deficiency Description:

Several concrete bridge rail post have spalls with exposed rebar. Metal rail has surface rust throughout.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 09/10/2019

Priority: C - Important

Work Code:

Deficiency Description:

Large drift buildup under spans 2 and 3.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Some drift has been removed since 2018 inspection. Lowered priority to "C" - RRJ 9/10/19

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Bridge Inspection Report

Maintenance Needs

Date Reported: 11/18/2016

Priority: C - Important

Work Code:

Deficiency Description:

All units have longitudinal cracks and delaminated areas to girder portion of units. Most have rebar exposed. Several units have spalls with exposed rebar in girder portion. Some rebar has been hand patched with grout in the past. Exposed rebar has rust with section loss.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Inspector:

Structure Number: 02883

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Bridge Inspection Report

Maintenance Needs

Date Reported: 12/06/2017

Priority: B - Pressing; 6 month completion goal

Work Code:

Deficiency Description:

Deck portion on channel beam has been full depth patched on Unit 4 Span 1, Unit 4 Span 3, and Unit 6 Span 4. (48ft. total) ends of Units also have excessive cracking and efflorescent, Unit 7 Span 3 is beginning to shell out with rebar exposed.

Work Description:

Span 1 unit unit 4 has been replaced with a cast in place unit.
Span 3 unit 4 has a 3' x 3' full depth concrete patch.
Span 4 unit 6 has a 3' x 5' full depth concrete patch.
Span 3 unit 7 is covered in other maintenance need.

Date Repairs Completed: 09/10/2019

Maintenance Comments:

observed during inspection

Stage: Open



PHOTO 1 Description

Stage: Open



PHOTO 2 Description

Inspector:

Structure Number: 02883

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Stage: Open



PHOTO 3 Description

Stage: Open



PHOTO 5 Description

Stage: Open



PHOTO 4 Description

Inspector:

Structure Number: 02883

Inspection Date:

Facility Carried: SH 115-01-LM 3.34

Bridge Inspection Report

Maintenance Needs

Date Reported: 12/06/2017

Priority: C - Important

Work Code:

Deficiency Description:

Several units have spalls with exposed rebar at ends of units over bents and diaphragms at beginning and end of spans.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

Stage: Open

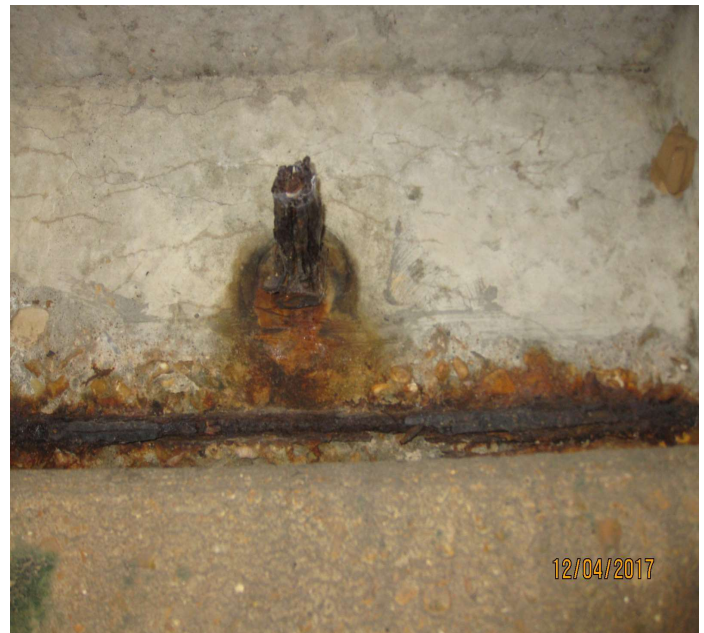


PHOTO 2 Description