

# Bridge Inspection Report

**01890**  
**US 412-07- LM 4.60**  
**over**  
**CANAL**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

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Inspector:

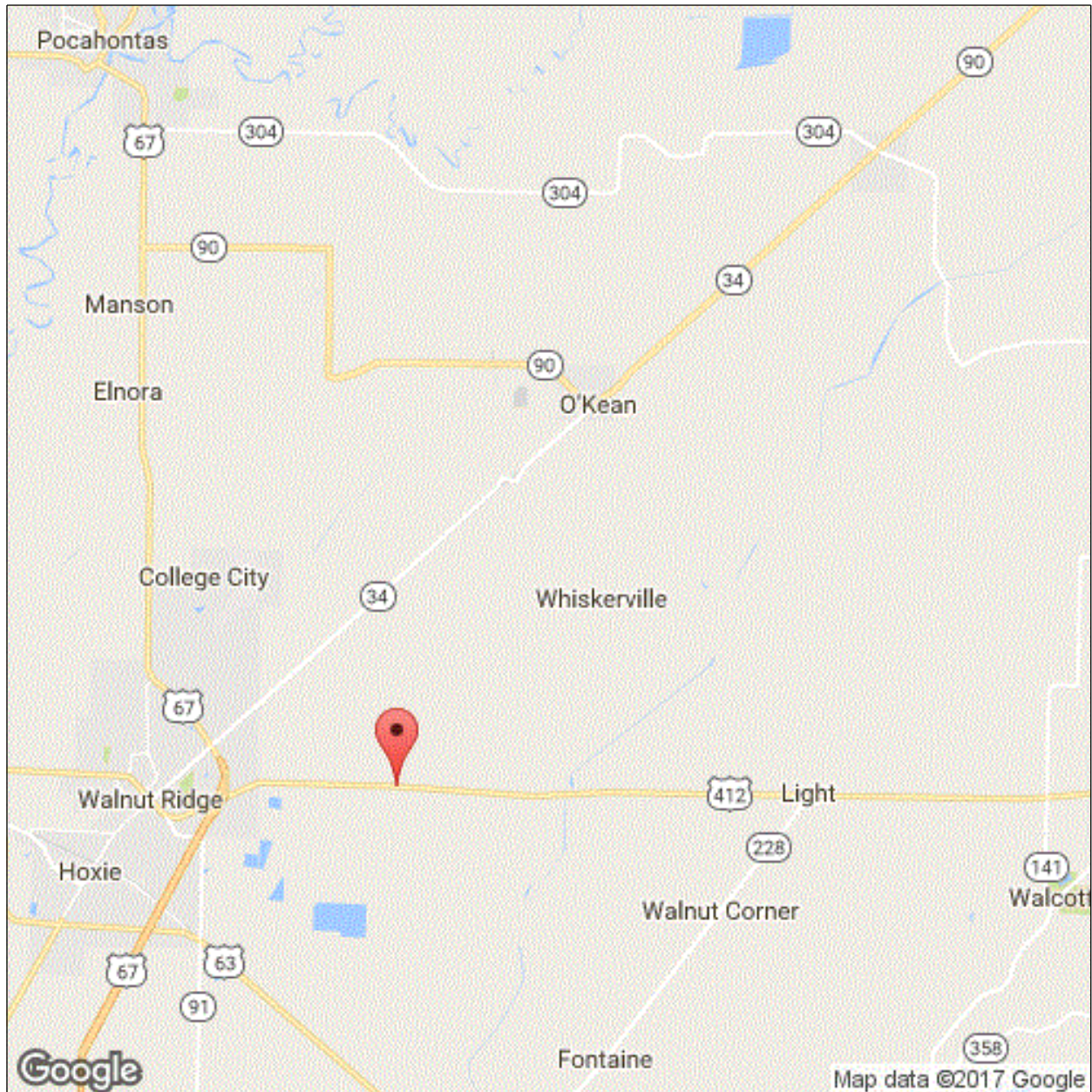
Structure Number: 01890

Inspection Date:

Facility Carried: US 412-07- LM 4.60

## Bridge Inspection Report

### Location Map



Latitude: 36.071766

Longitude: -90.878448



Inspector:

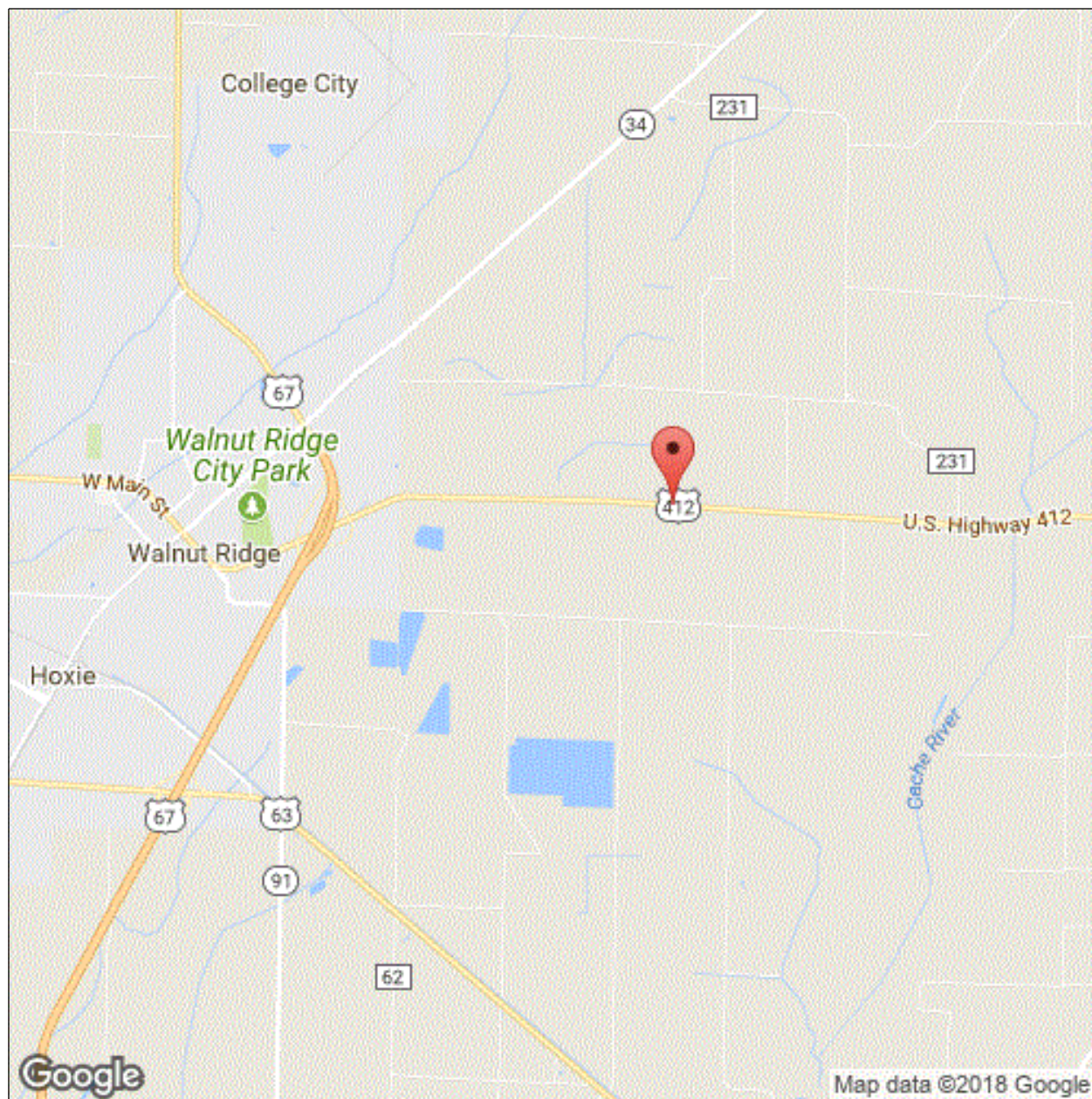
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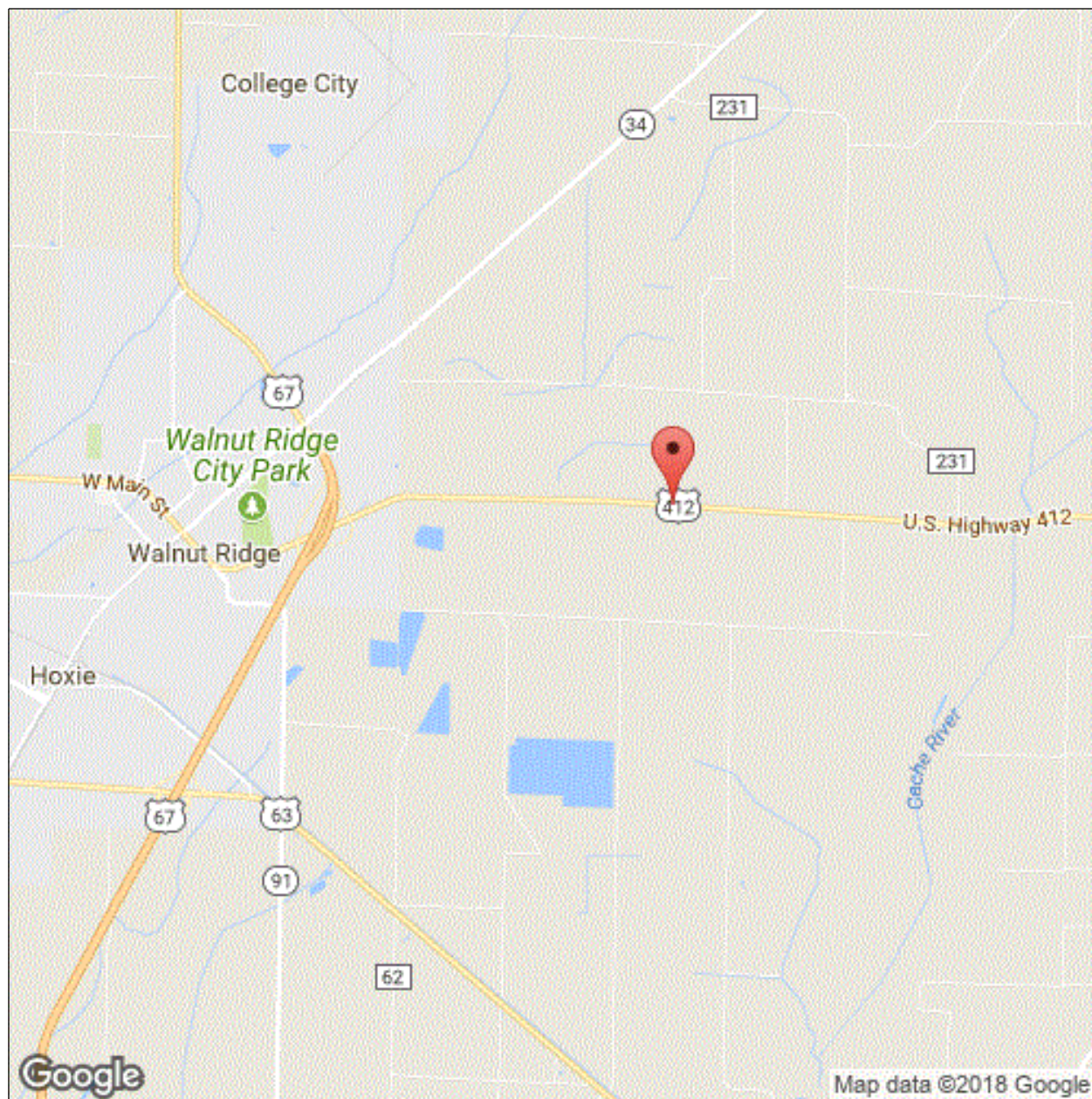
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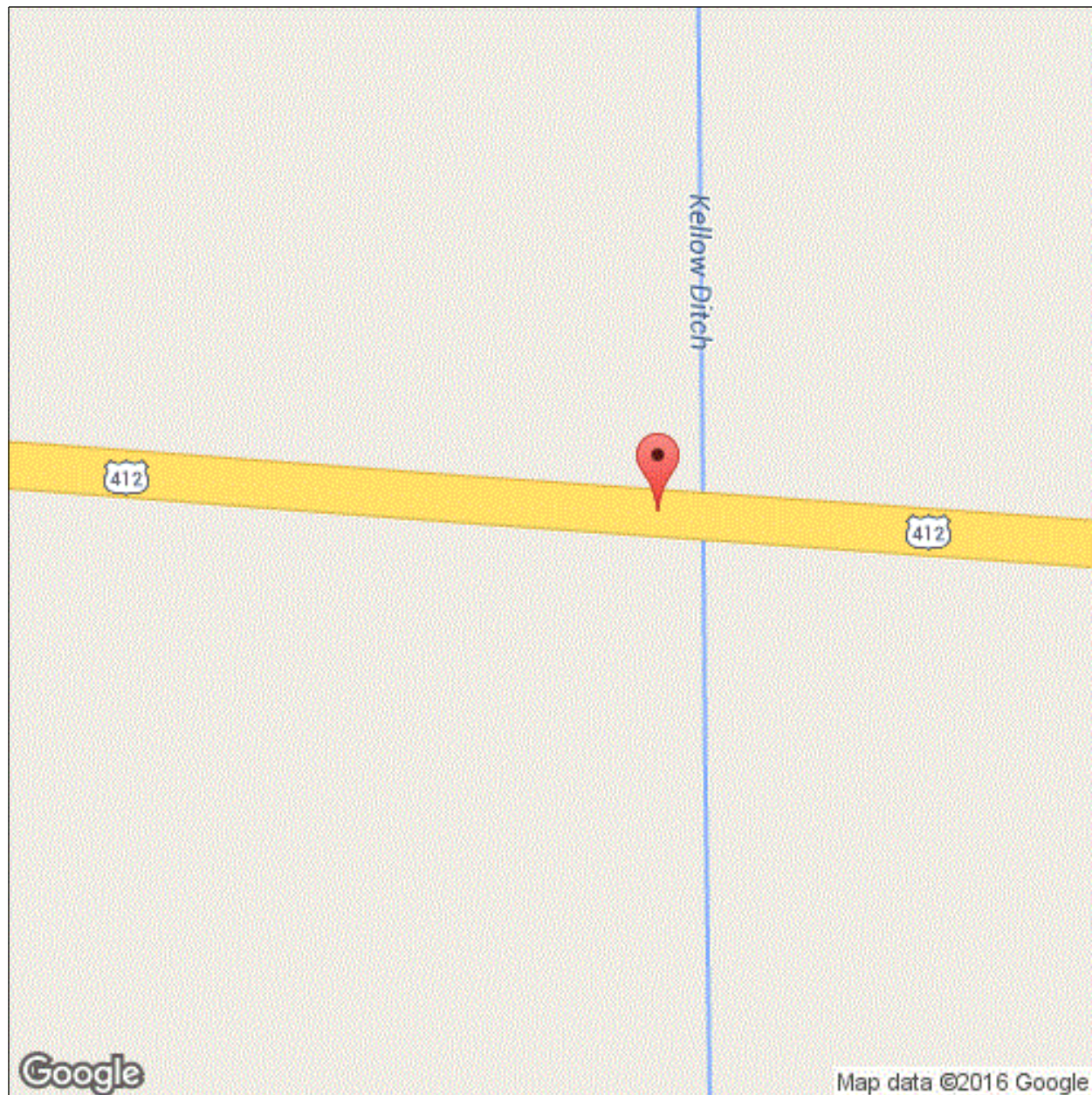
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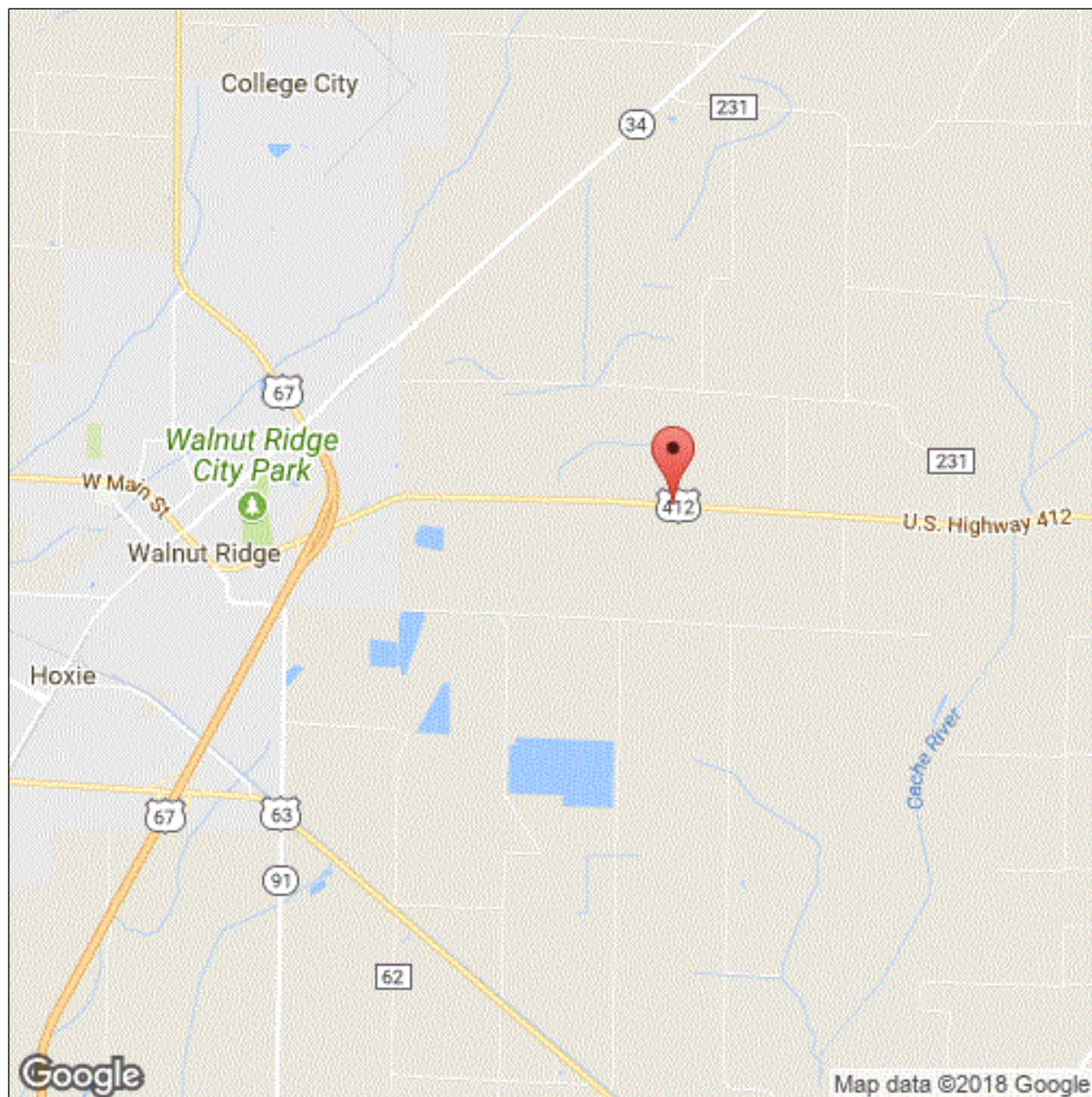
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## Bridge Inspection Report

### Executive Summary



Inspector:

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## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	09/25/2018
(8) STRUCTURE NUMBER	01890	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 412 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	10 (3) COUNTY CODE 075	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	CANAL	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 412-07- LM 4.60		
(9) LOCATION	3.07 MI W OF GREENE CO		
(11) MILEPOINT 4.600	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000412070 (13B) SUBROUTE NUMBER 01		
(16) LATITUDE	36.071766 (17) LONGITUDE -90.878448		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	6
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE	4 (60) SUBSTRUCTURE 6
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(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	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	1934 (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	3100 (19) BYPASS DETOUR LENGTH	11	
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(64) OPERATING RATING 34.3	
(109) AVERAGE DAILY TRUCK TRAFFIC	22	(65) METHOD USED TO DETERMINE INVENTORY RATING	
		1	
		(66) INVENTORY RATING 20.6	
		(70) BRIDGE POSTING 2	
		(41) STRUCTURE OPEN/POSTED/CLOSED P	
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	45 (49) STRUCTURE LENGTH (ft.)	46	
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0 RIGHT 0	(67) STRUCTURAL EVALUATION 4	
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	27.2	(68) DECK GEOMETRY 3	
(52) DECK WIDTH, OUT-TO-OUT (ft.)	28.7	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL N	
(32) APPROACH ROADWAY WIDTH (ft.)	40.0	(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.)	27.2	(36) TRAFFIC SAFETY FEATURE	
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36A) BRIDGE RAILINGS: 1	
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	36B) TRANSITIONS: 1	
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	36C) APPROACH GUARDRAIL: 1	
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	36D) APPROACH GUARDRAIL ENDS: 1	
		(113) SCOUR CRITICAL BRIDGES 5	
		SUFFICIENCY RATING 27.6 STATUS 1	
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	31 (75B) WORK DONE BY	1	
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	70	(112) NBIS BRIDGE LENGTH Y	
(94) BRIDGE IMPROVEMENT COST (\$)	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE 1	
(95) ROADWAY IMPROVEMENT COST (\$)	176	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE 02	
(96) TOTAL PROJECT COST	333	(100) STRAHNET HIGHWAY DESIGNATION 0	
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2003	(101) PARALLEL STRUCTURE DESIGNATION N	
(114) FUTURE ADT 4600	(115) YEAR OF FUTURE ADT 2033	(102) DIRECTION OF TRAFFIC 2	
		(103) TEMP STRUCTURE	
		(105) FEDERAL LANDS HIGHWAYS 0	
		(110) DESIGNATED NATIONAL NETWORK 1	
		(20) TOLL 3	
		(21) MAINTENANCE RESPONSIBILITY 01	
		(22) OWNER 01	
		(37) HISTORICAL 5	
		NAVIGATION DATA	
		(38) NAVIGATION CONTROL 0	
		(111) PIER OR ABUTMENT PROTECTION 5	
		(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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## Bridge Inspection Report

## Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	1283	sq. ft.	998	0	285	0
1090 - Exposed Rebar		5		0	0	5	0
1120 - Efflorescence/Rust Staining		230		0	0	230	0
1130 - Cracking (RC and Other)		50		0	0	50	0
510 - Wearing Surfaces		1215	sq. ft.	1080	0	135	0
3210 - Delamination/Spall/Patched Area/Pothole (Wearing Surfaces)		45		0	0	45	0
3220 - Crack (Wearing Surface)		90		0	0	90	0
107 - Steel Open Girder/Beam	1- Ben.	270	ft.	244	0	22	4
1000 - Corrosion		26		0	0	22	4
515 - Steel Protective Coating		2074	sq. ft.	1735	178	0	161
3440 - Effectiveness (Steel Protective Coatings)		339		0	178	0	161
215 - Reinforced Concrete Abutment	1- Ben.	93	ft.	19	44	30	0
1080 - Delamination/Spall/Patched Area		44		0	44	0	0
1090 - Exposed Rebar		3		0	0	3	0
1120 - Efflorescence/Rust Staining		27		0	0	27	0
311 - Movable Bearing	1- Ben.	6	each	0	0	6	0
1000 - Corrosion		6		0	0	6	0
313 - Fixed Bearing	1- Ben.	6	each	0	0	6	0
1000 - Corrosion		6		0	0	6	0
330 - Metal Bridge Railing	1- Ben.	90	ft.	62	0	28	0
1010 - Cracking		28		0	0	28	0



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## Bridge Inspection Report

### Pictures

PHOTO 1

Description channel profile

PHOTO 1

Description

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## Pictures

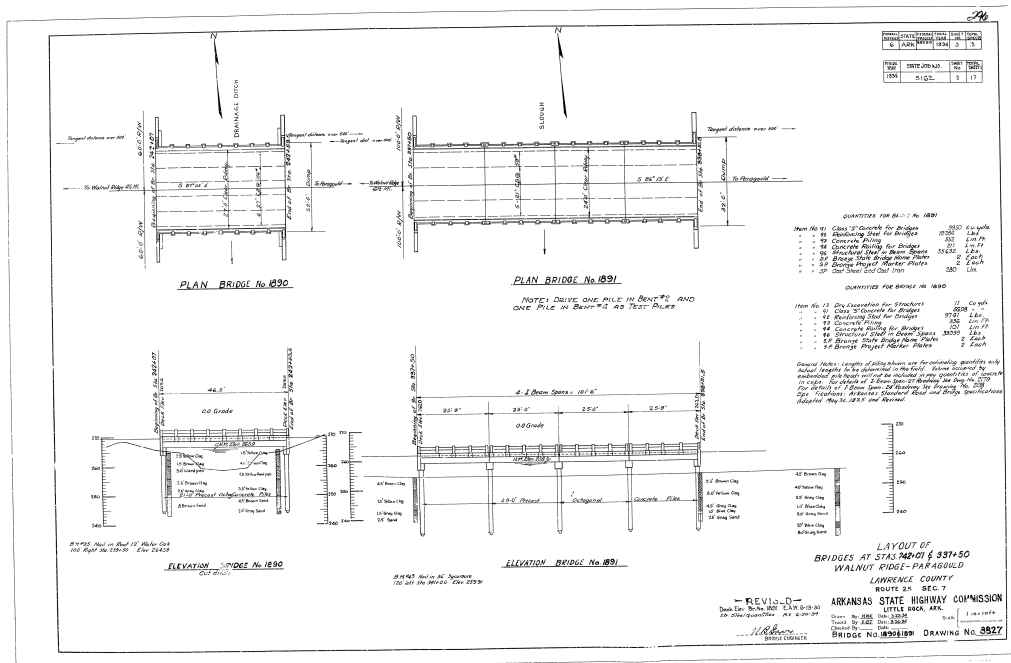


PHOTO 1

Description layout

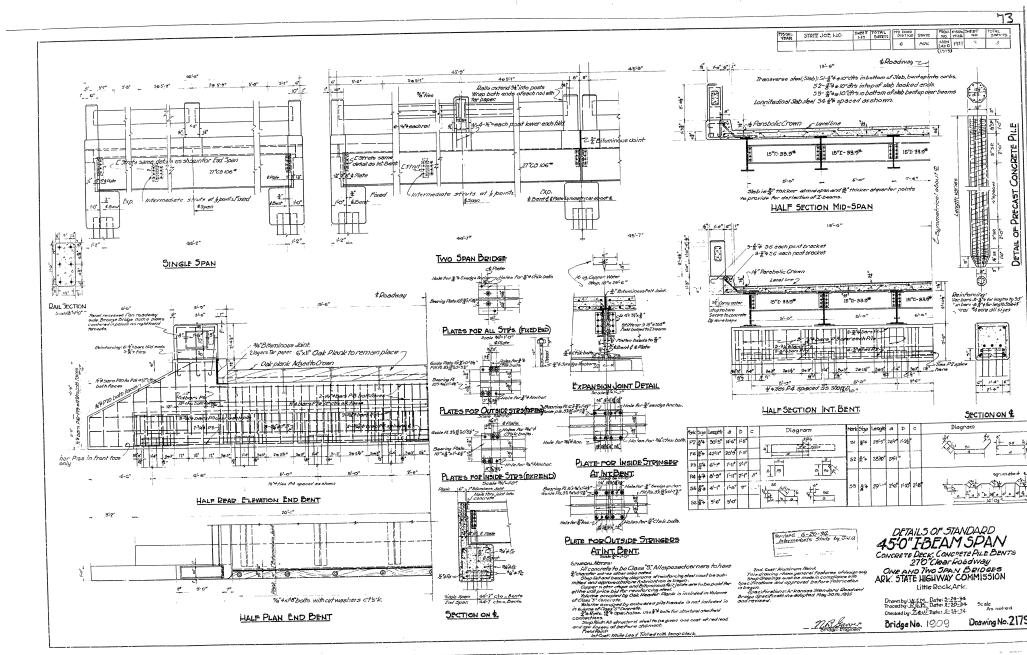


PHOTO 2

Description span detail



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## Bridge Inspection Report

Sketches

Inspector:

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Bridge Inspection Report

**Maintenance Needs**

Date Reported: 1/16/2014 12:00:00 AM

Priority: D - Routine

Work Code:

---

Deficiency Description:

Bearings are rusted with section loss.

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Date Reported: 1/16/2014 12:00:00 AM

Priority: D - Routine

Work Code:

---

Deficiency Description:

Concrete curbs are deteriorated with section loss, and some rebar exposed.

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---



Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 02/22/2018

Priority: C - Important

Work Code:

---

#### Deficiency Description:

Girder 1 over bent 1 has 15" of heavy section loss along bottom of web at end.

Girders 2 - 4 have areas of 1/8" - 1/4" section loss, especially along bottom of web and bottom flange.

Girder 6 over bent 1 has 15" of heavy section loss along bottom of web at end. Inside bottom flange is knife edged and has holes rusted through for 1' near bearing.

Girders over bent 2 have areas of 1/8" section loss especially at bottom flange and bottom of web.

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Monitor



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description

Inspector:

Inspection Date:

Structure Number: 01890

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## Bridge Inspection Report

### Maintenance Needs

Stage: Monitor



PHOTO 3      Description

Inspector:

Structure Number: 01890

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### Bridge Inspection Report

#### Maintenance Needs

Date Reported: 1/16/2014 12:00:00 AM

Priority: D - Routine

Work Code:

---

Deficiency Description:

Minor embankment erosion near end bents.

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---



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### Bridge Inspection Report

## Maintenance Needs

Date Reported: 09/25/2018

Priority: B - Pressing; 6 month completion goal

Work Code:

---

### Deficiency Description:

Girder 5 over bent 1 has a 13" x up to 2" hole in bottom of web at end of girder and is beginning to crush.

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

will continue to monitor - Job CA1003 will replace this bridge when it goes to contract KAW 10-5-18

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Stage: Open



PHOTO 1      Description      Bent 1 Girder 5

Stage: Open



PHOTO 2      Description      Bent 1 Girder 5