

# Bridge Inspection Report

**00736**  
**SH 1-15- LM 0.90**  
**over**  
**HYDRICK CR**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

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Inspector:

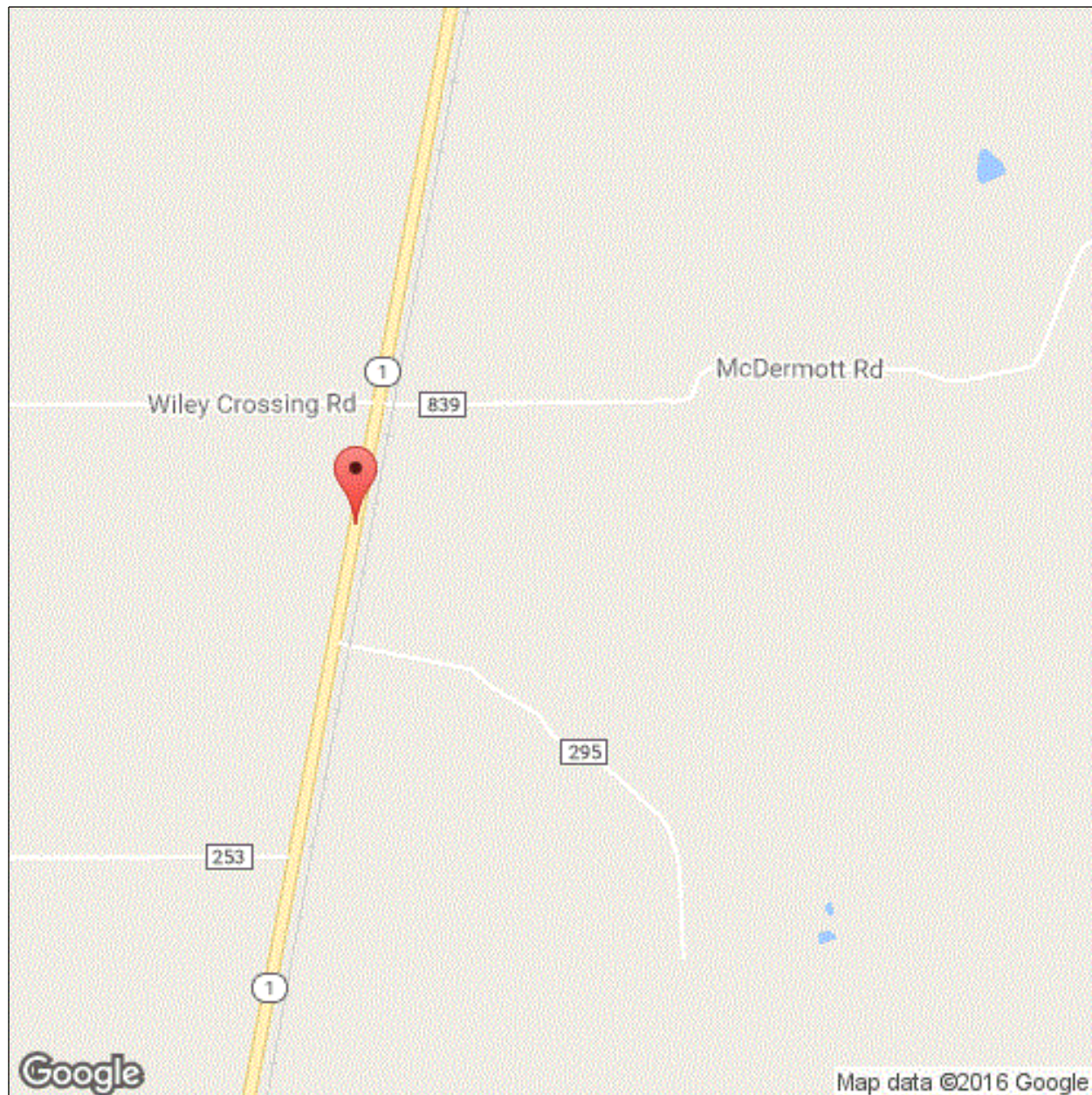
Structure Number: 00736

Inspection Date:

Facility Carried: SH 1-15- LM 0.90

## Bridge Inspection Report

### Location Map



Latitude: 35.45844

Longitude: -90.74041



Inspector:

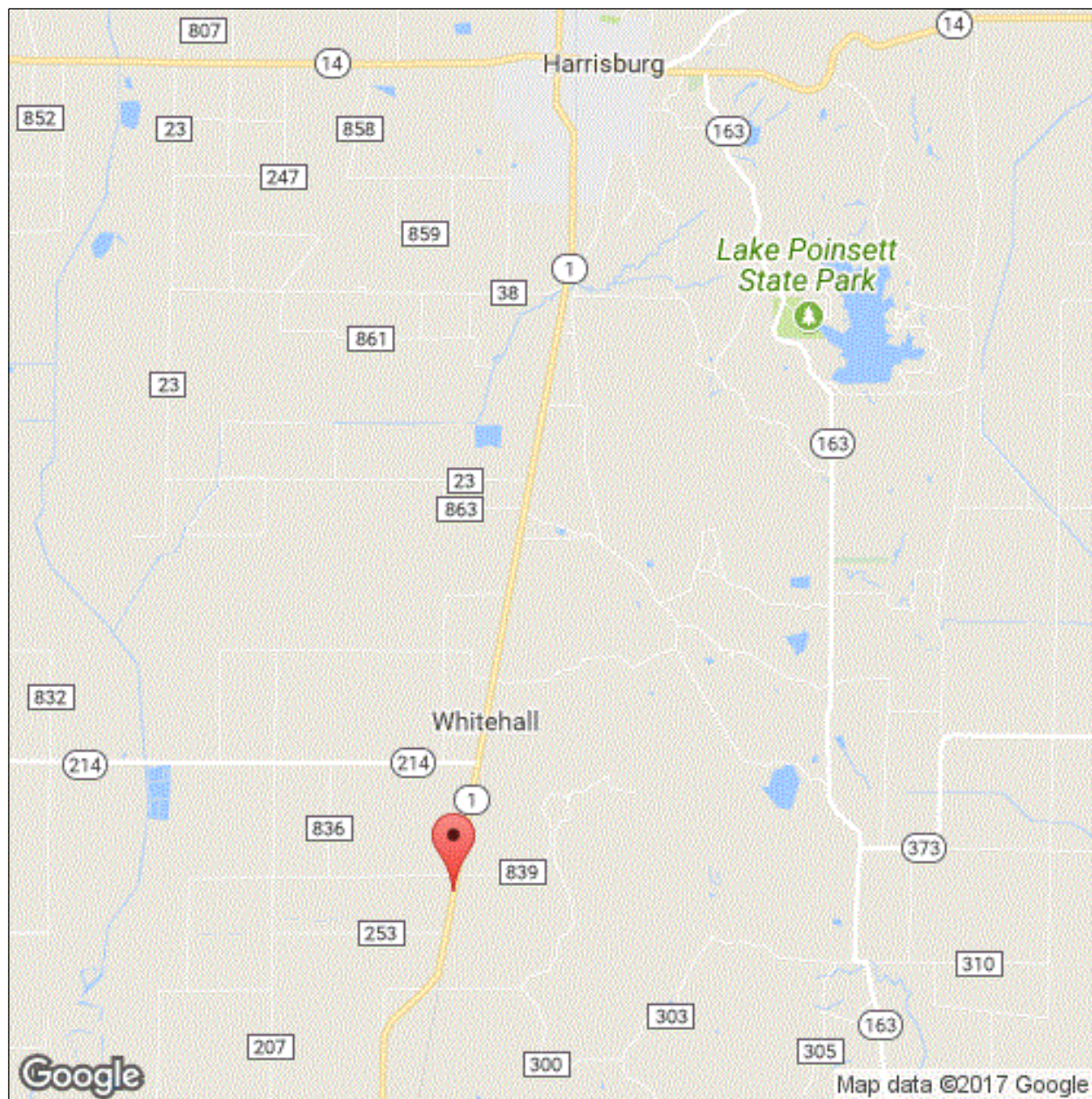
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### Location Map



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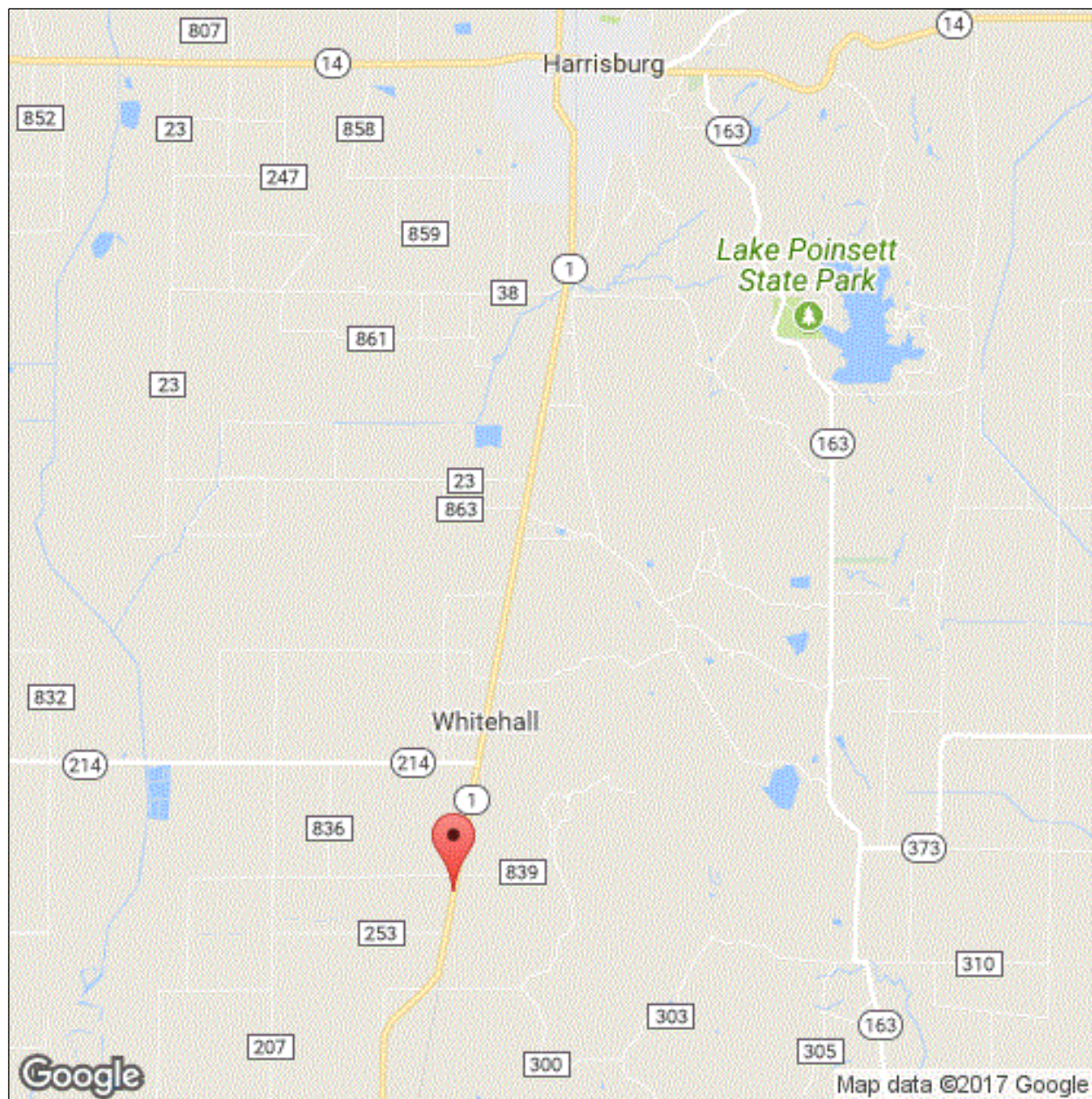
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Inspector:

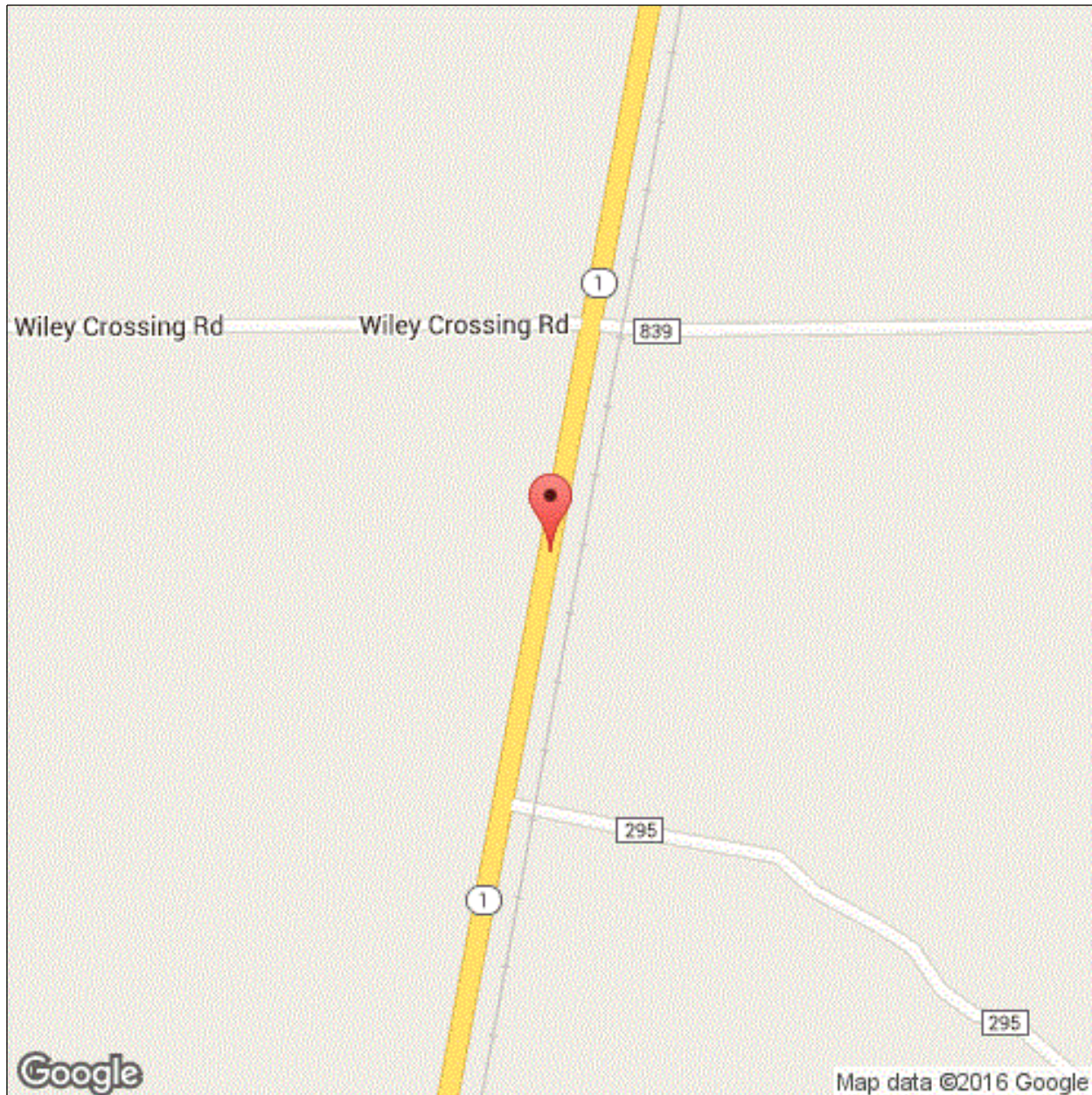
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Inspector:

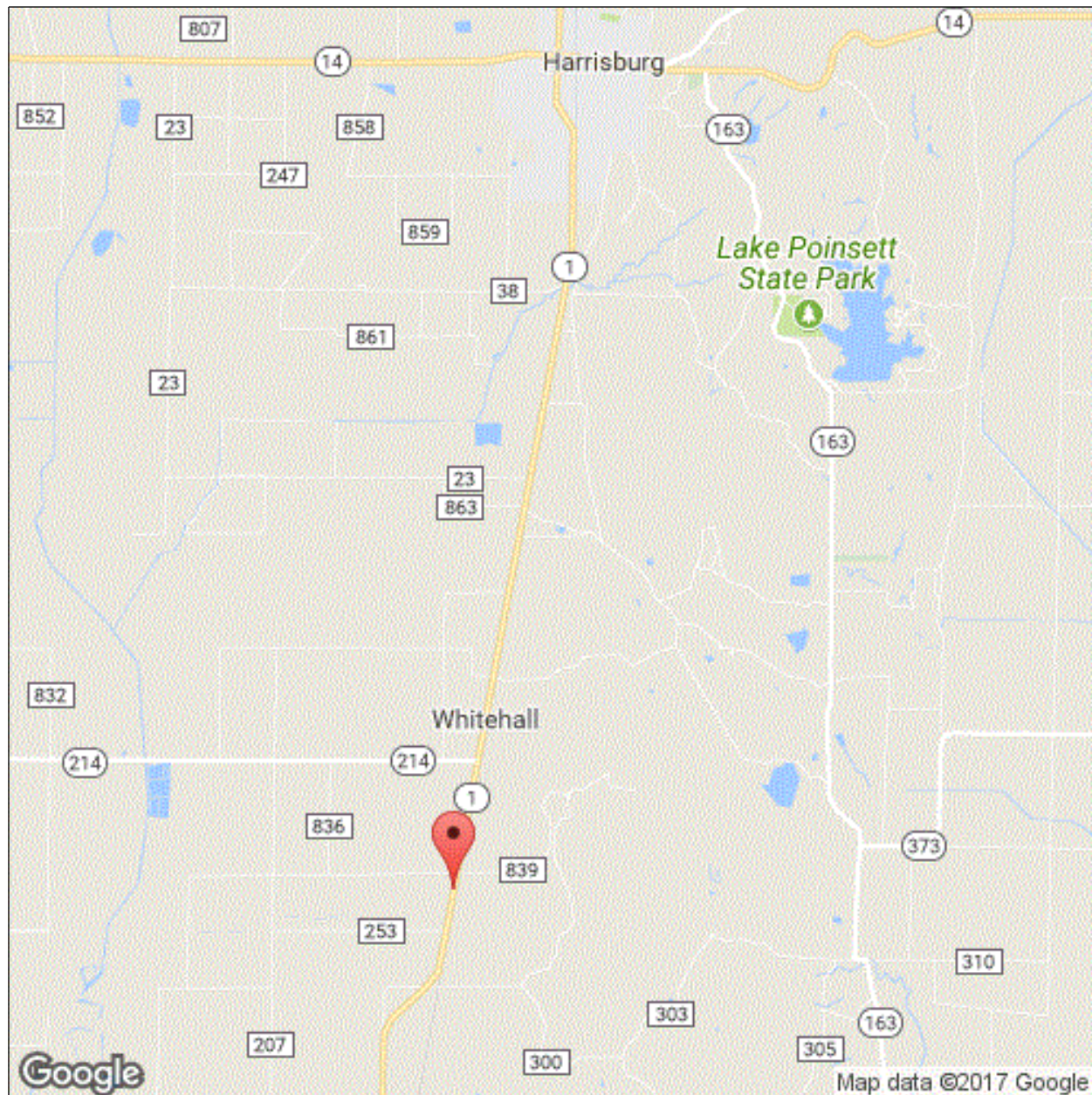
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**Bridge Inspection Report**

**Executive Summary**



Inspector:

Structure Number: 00736

Inspection Date:

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## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	09/05/2019
(8) STRUCTURE NUMBER	00736	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 1 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	10 (3) COUNTY CODE 111	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	HYDRICK CR	C. OTHER SPECIAL	Y 24 09/19/2018
(7) FACILITY CARRIED	SH 1-15- LM 0.90		
(9) LOCATION	0.9 MI NO OF CROSS CO LIN		
(11) MILEPOINT 0.900	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000001150 (13B) SUBROUTE NUMBER 01		
(16) LATITUDE 35.45844	(17) LONGITUDE -90.74041		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	7
A) KIND OF MATERIAL/DESIGN: 1 - Concrete		(59) SUPERSTRUCTURE	7 (60) SUBSTRUCTURE 5
B) TYPE OF DESIGN/CONSTR: 01 - Slab		(61) CHANNEL & CHANNEL PROTECTION	5 (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 3	(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 1954	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	4
(42) TYPE OF SERVICE ON 1 UNDER 5		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 00		(64) OPERATING RATING	46.0
(29) AVERAGE DAILY TRAFFIC 3500	(19) BYPASS DETOUR LENGTH 12	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	27.0
(109) AVERAGE DAILY TRUCK TRAFFIC 1		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 25	(49) STRUCTURE LENGTH (ft.) 75	(67) STRUCTURAL EVALUATION	5
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1.5 RIGHT 1.5		(68) DECK GEOMETRY	3
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	26.0	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	29.5	(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.)	28.9	(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 0	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	36A) BRIDGE RAILINGS:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	25.9	36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	36D) APPROACH GUARDRAIL ENDS:	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(113) SCOUR CRITICAL BRIDGES	5
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	SUFFICIENCY RATING	54.2 STATUS 2
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED 31	(75B) WORK DONE BY 1	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	101.0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
(95) ROADWAY IMPROVEMENT COST (\$)	235	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	507	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2004	(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 3601	(115) YEAR OF FUTURE ADT 2028	(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	5
		(39) NAV VERT CLEARANCE (ft.)	0
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
		(40) NAV HORIZONTAL CLEARANCE (ft.)	0

Inspector:

Structure Number: 00736

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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
<b>38 - Reinforced Concrete Slab</b>	1- Ben.	2213	sq. ft.	1998	215	0	0
1120 - Efflorescence/Rust Staining		65		0	65	0	0
1130 - Cracking (RC and Other)		150		0	150	0	0
510 - Wearing Surfaces		1950	sq. ft.	1635	315	0	0
3220 - Crack (Wearing Surface)		315		0	315	0	0
<b>215 - Reinforced Concrete Abutment</b>	1- Ben.	76	ft.	40	2	34	0
<p>Spans 1 &amp; 3 has been repaired with broken concrete, See photo 2014, Erosion appears to have stabilize since repairs were made. Left Special on Bridge due to the History Erosion.</p> <p>Right end of Bent 1 abutment has a 5ft. x 1ft. x 4ft. back under abutment void behind timber form in place but hole still remains. Same as 2014 inspection.</p> <p>20ft. of Bent 4 abutment after repairs has 2ft. of undermining and 4ft. of Piles 2,3,&amp;4 are exposed, Note that there appears not to be any additional scour since 2014 repairs. Same as 2014 inspection</p>							
1090 - Exposed Rebar		2		0	2	0	0
6000 - Scour		34		0	0	34	0
<b>227 - Reinforced Concrete Pile</b>	1- Ben.	18	each	8	5	5	0
6000 - Scour		10		0	5	5	0
<b>234 - Reinforced Concrete Pier Cap</b>	1- Ben.	60	ft.	43	3	14	0
1080 - Delamination/Spall/Patched Area		2		0	0	2	0
1090 - Exposed Rebar		12		0	0	12	0
1120 - Efflorescence/Rust Staining		3		0	3	0	0
<b>330 - Metal Bridge Railing</b>	1- Ben.	150	ft.	0	150	0	0
1000 - Corrosion		150		0	150	0	0
515 - Steel Protective Coating		510	sq. ft.	204	0	306	0
3440 - Effectiveness (Steel Protective Coatings)		306		0	0	306	0



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## Bridge Inspection Report

## Pictures

PHOTO 1

### Description

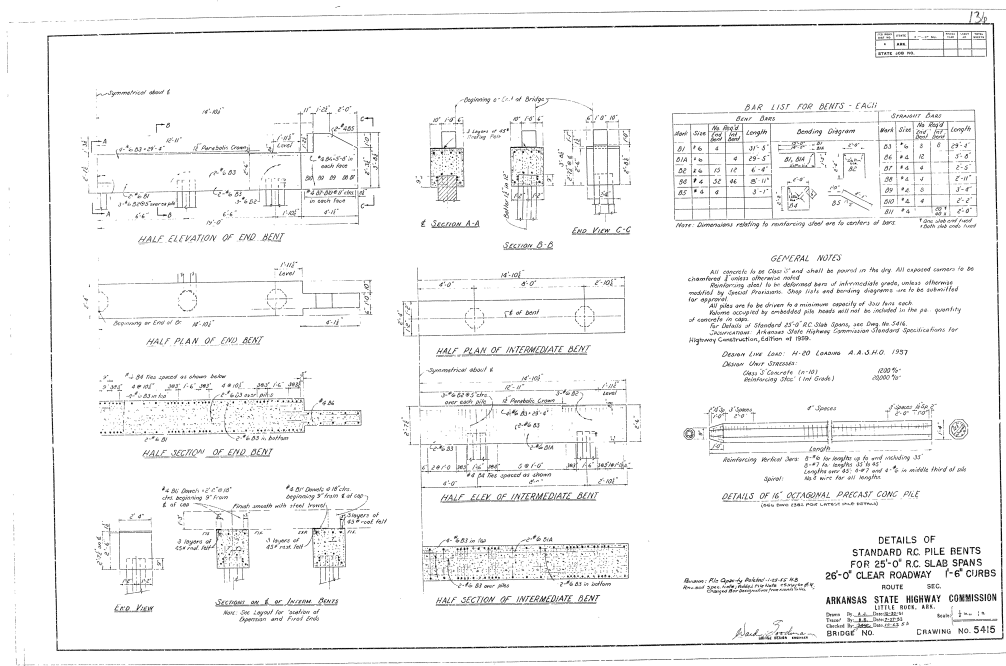


PHOTO 1

Description DRWG05415

**Inspection Date:**

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**Facility Carried:** SH 1-15- LM 0.90

# Bridge Inspection Report

## Pictures

PHOTO 1

Description	channel profile
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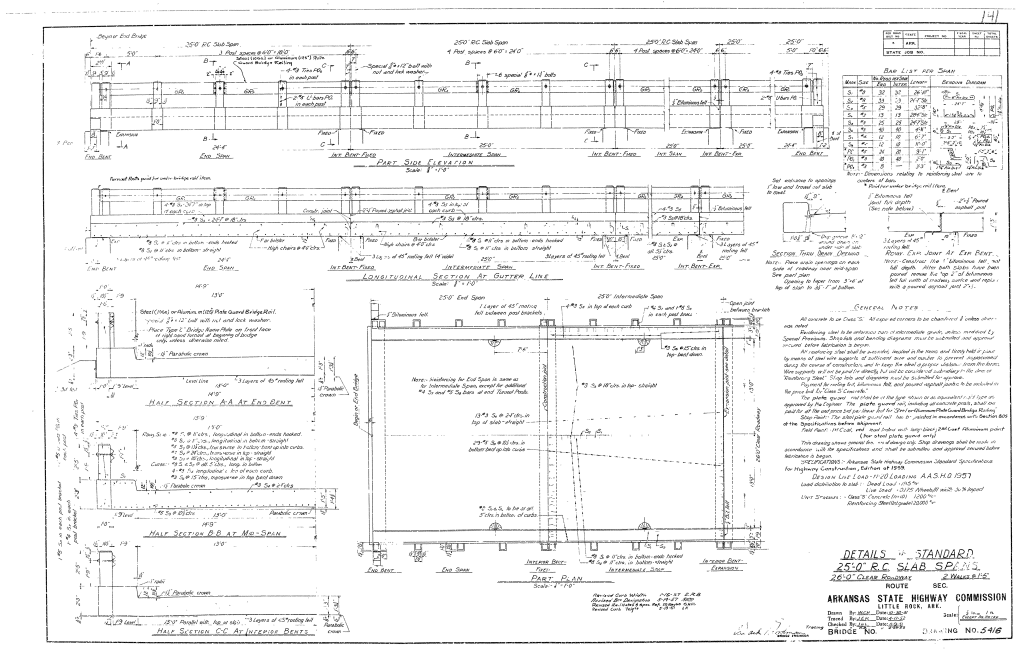


PHOTO 2

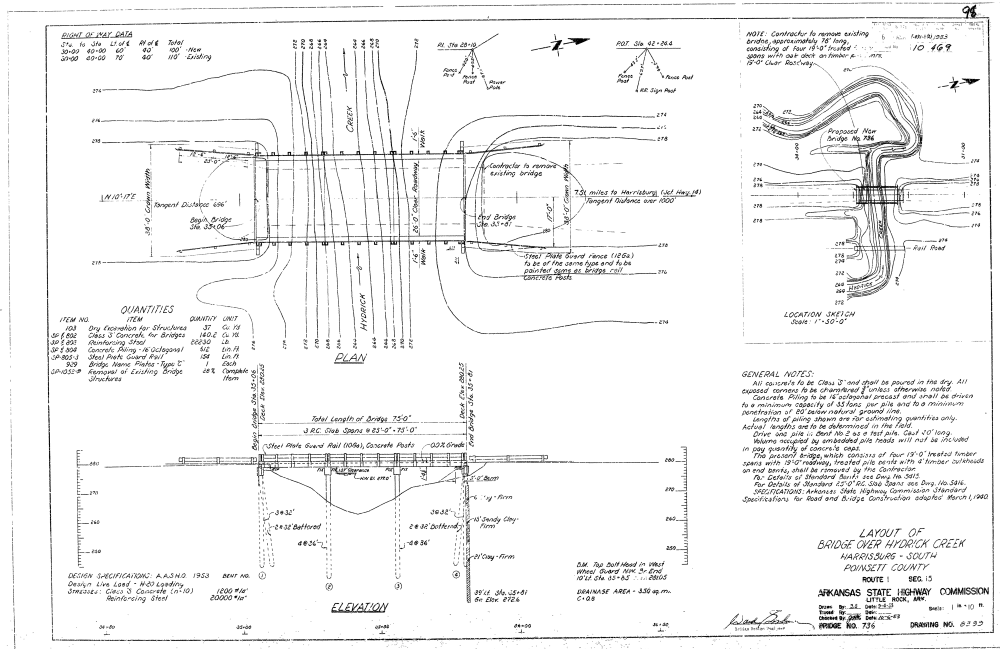
Description DRWG05416



**Inspection Date:**

**Facility Carried:** SH 1-15- LM 0.90

## Pictures



Description	layout
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**Inspector:**

**Inspection Date:**

**Structure Number:** 00736

**Facility Carried:** SH 1-15- LM 0.90

**Bridge Inspection Report**

**Sketches**



Inspector:

Structure Number: 00736

Inspection Date:

Facility Carried: SH 1-15- LM 0.90

### Bridge Inspection Report

#### Maintenance Needs

**Date Reported:** 1/4/2012 12:00:00 AM

**Priority:** G - General/ Preventive maintenance

**Work Code:**

---

**Deficiency Description:**

Asphalt overlay  
has insignificant size and density cracks.

**Work Description:**

---

**Date Repairs Completed:**

**Maintenance Comments:**

---

**Date Reported:** 1/4/2012 12:00:00 AM

**Priority:** D - Routine

**Work Code:**

---

**Deficiency Description:**

Bottom of Caps Bents 2&3 has several shelled out areas with exposed rebar due to inadequate coverage as built condition.

Left end of Cap Bent 2 Cap has heavy deterioration and cracking with efflorescence.

Right end of Cap Bent 3 has heavy deterioration and cracking with efflorescence, 1ft. typical on ends.

**Work Description:**

---

**Date Repairs Completed:**

**Maintenance Comments:**

---

Inspector:

Structure Number: 00736

Inspection Date:

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 1/6/2014 12:00:00 AM

Priority: C - Important

Work Code:

#### Deficiency Description:

Bent 1 abutment is undermined for 4' on Lt end up to 1.5' below and 2' back under.

Bent 1 abutment is undermined for 10' on Rt end up to 1' below and 2.5' back under.

Some repairs have been made in the past with flowable fill.

Bent 4 abutment is undermined for 20 ft. up to 4 ft. below cap and 2 ft. back under. Piling are exposed. Broken concrete was placed on slope up to cap in 2014. Erosion seems to have stabilized.

#### Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description



Inspector:

Inspection Date:

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## Bridge Inspection Report

### Maintenance Needs

Stage: Monitor



PHOTO 3 Description

Stage: Monitor



PHOTO 4 Description

Stage: Monitor



PHOTO 5 Description Bent 1 RT SIDE

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 09/19/2018

Priority: D - Routine

Work Code:

---

#### Deficiency Description:

Approach roadway at bent 1 has settlement from embankment erosion under cap.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

---

Stage: Open



PHOTO 1      Description      Bent 1 approach roadway

Inspector:

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### Bridge Inspection Report

#### Maintenance Needs

Date Reported: 09/05/2019

Priority: D - Routine

Work Code:

---

#### Deficiency Description:

Bent 3 cap, span 2 side over pile 1 has 1 ft. exposed rebar.  
Bent 3 cap has heavy deterioration and cracking with efflorescence on both ends.  
Bent 4 abutment left end has 2 ft. of exposed rebar.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Date Reported: 09/05/2019

Priority: G - General/ Preventive maintenance

Work Code:

---

#### Deficiency Description:

Trees & brush in channel restricting flow.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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