

# 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:

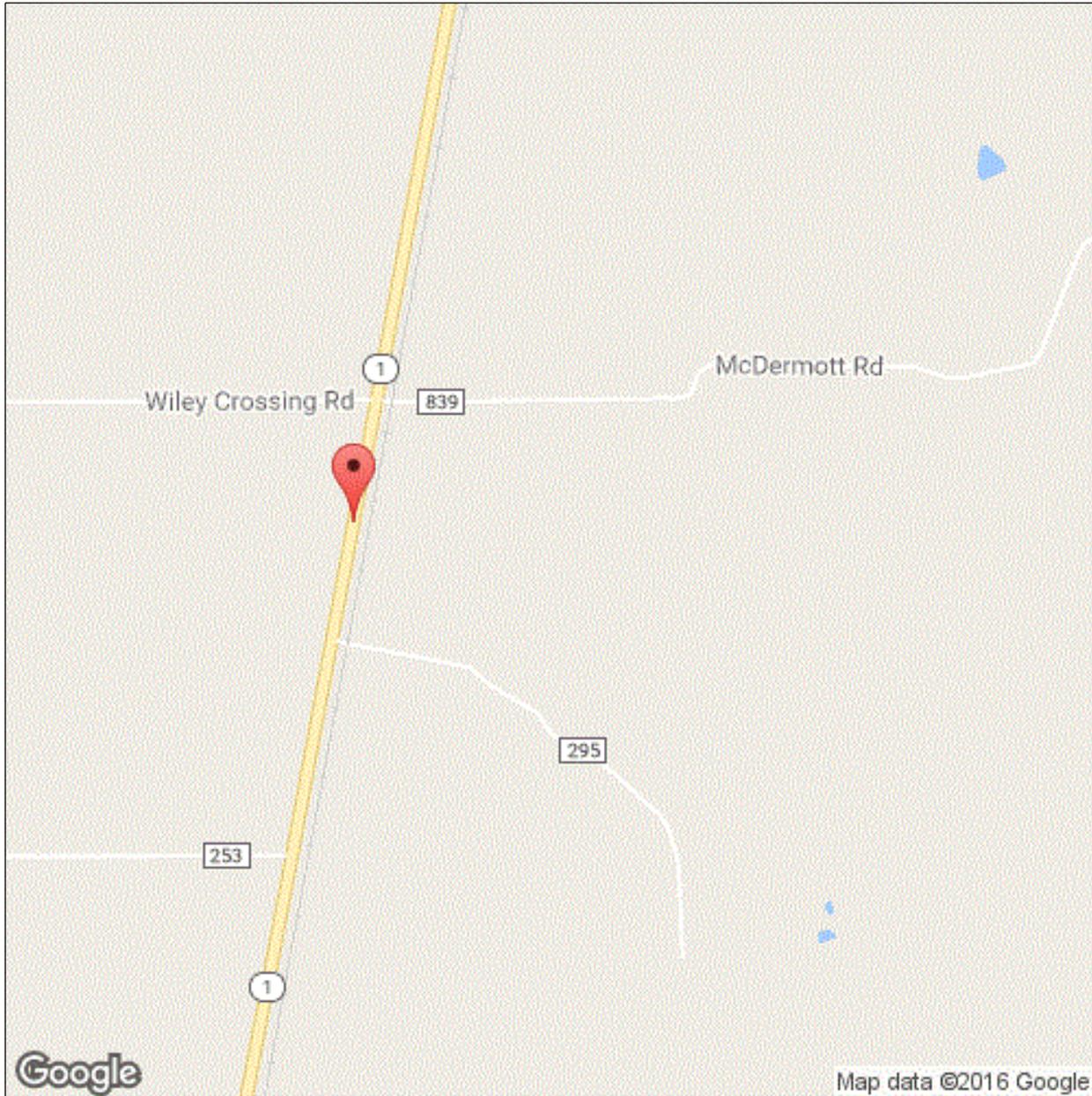
Structure Number: 00736

Inspection Date:

Facility Carried: SH 1-15- LM 0.90

### Bridge Inspection Report

### Location Map



Latitude: 35.45844

Longitude: -90.74041

Inspector:

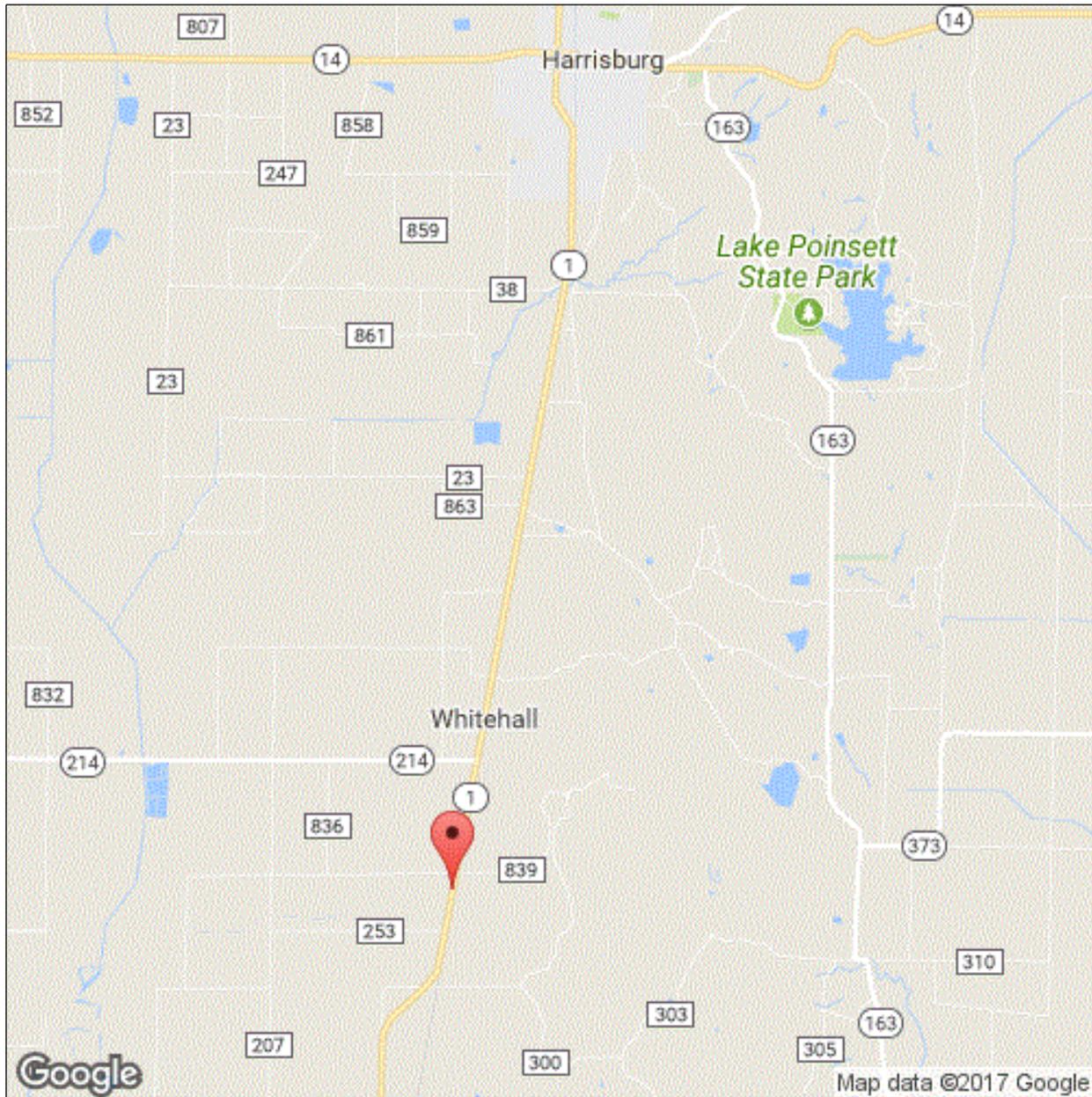
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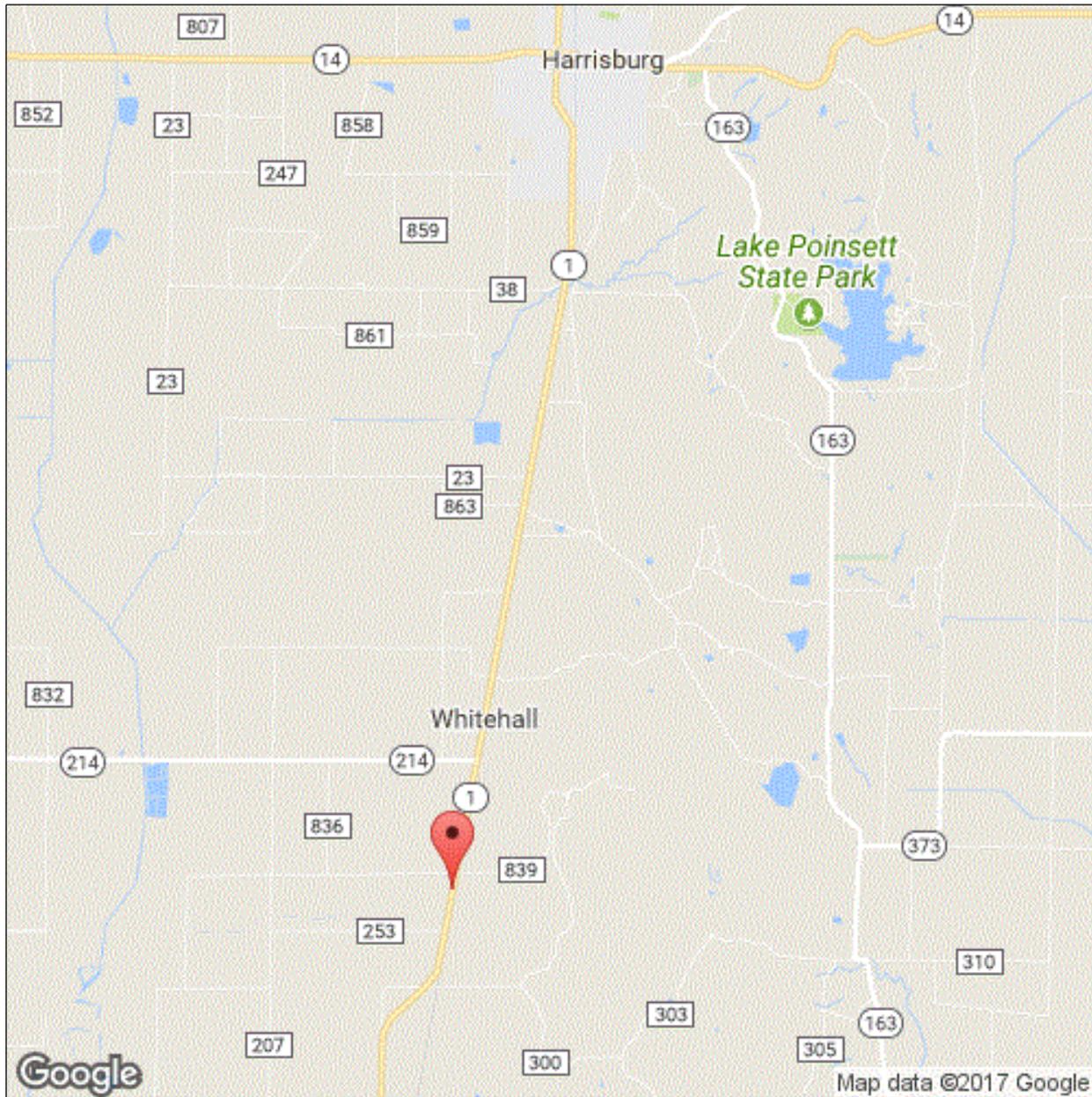
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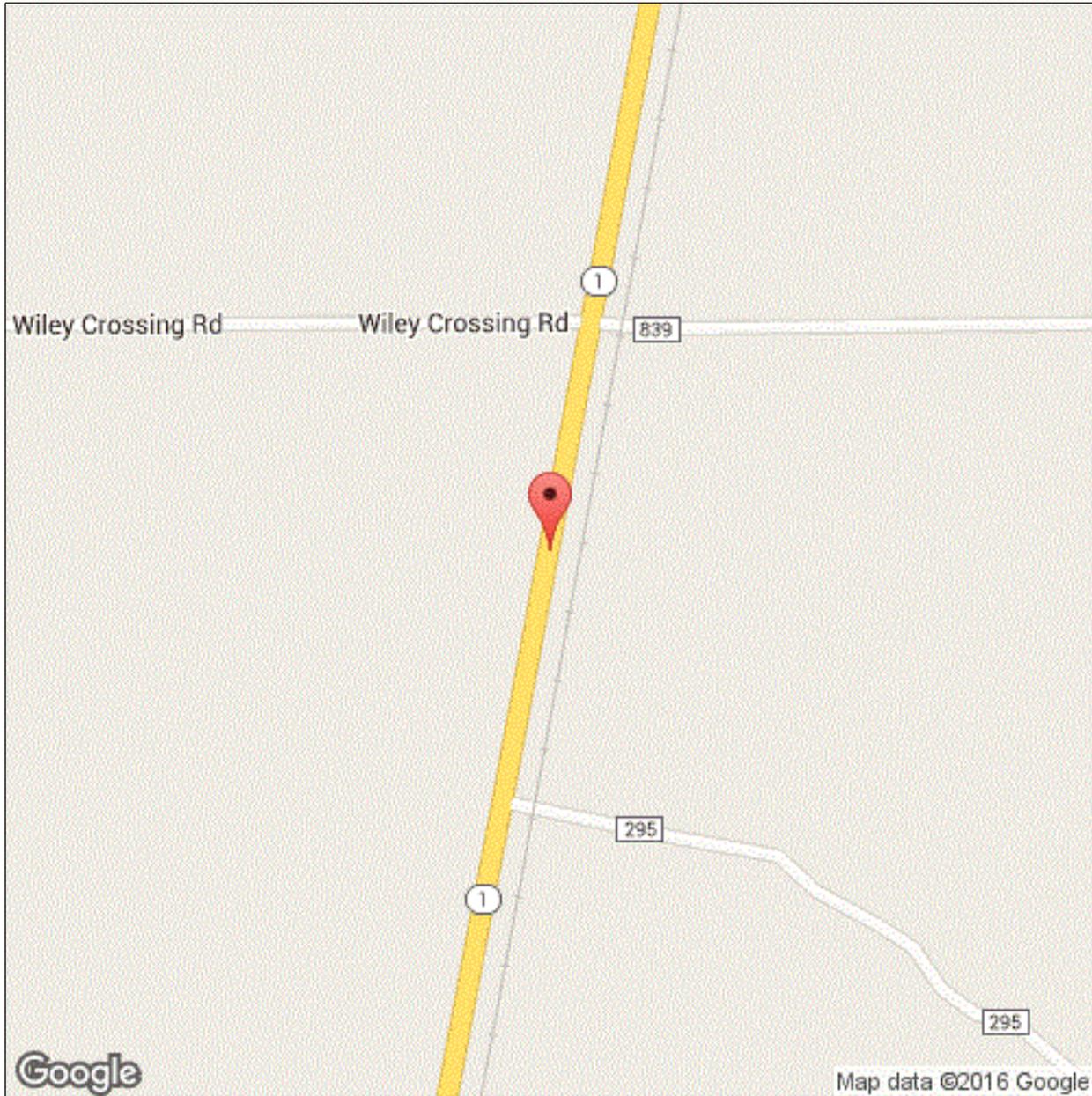
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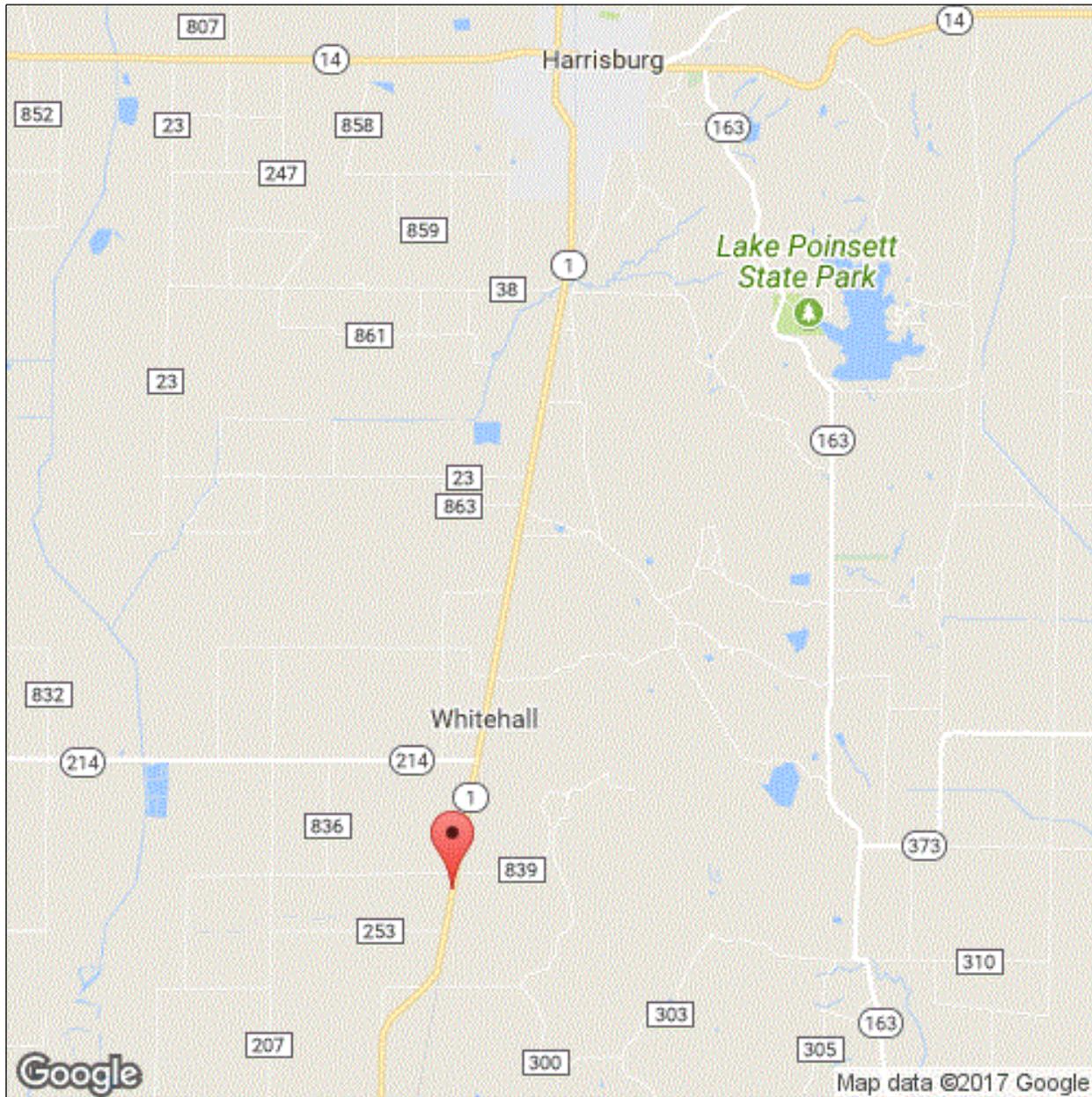
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### Location Map



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

**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	CONDITION	
(9) LOCATION	0.9 MI NO OF CROSS CO LIN	(58) DECK	7
(11) MILEPOINT 0.900	(12) BASE HIGHWAY NETWORK 1	(59) SUPERSTRUCTURE	7 (60) SUBSTRUCTURE 5
(13A) LRS INVENTORY ROUTE	0000001150 (13B) SUBROUTE NUMBER 01	(61) CHANNEL & CHANNEL PROTECTION	5 (62) CULVERT N
(16) LATITUDE 35.45844	(17) LONGITUDE -90.74041	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	46.0
(43) STRUCTURE TYPE, MAIN		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
A) KIND OF MATERIAL/DESIGN:	1 - Concrete	(66) INVENTORY RATING	27.0
B) TYPE OF DESIGN/CONSTR:	01 - Slab	(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	3 (46) NUMBER OF APPROACH	(68) DECK GEOMETRY	3
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION	(71) WATERWAY ADEQUACY	8
AGE OF SERVICE		(72) APPROACH ROADWAY ALIGNMENT	8
(27) YEAR BUILT	1954 (106) YEAR RECONSTRUCTED	(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	3500 (19) BYPASS DETOUR LENGTH	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	5
GEOMETRIC DATA		SUFFICIENCY RATING	54.2 STATUS 2
(48) LENGTH OF MAX SPAN (ft.)	25 (49) STRUCTURE LENGTH (ft.)	75	
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 1.5 RIGHT 1.5	CLASSIFICATION	
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	26.0	(112) NBIS BRIDGE LENGTH	Y
(52) DECK WIDTH, OUT-TO-OUT (ft.)	29.5	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(32) APPROACH ROADWAY WIDTH (ft.)	28.9	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(100) STRAHNET HIGHWAY DESIGNATION	0
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	(101) PARALLEL STRUCTURE DESIGNATION	N
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	25.9	(102) DIRECTION OF TRAFFIC	2
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	(103) TEMP STRUCTURE	
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	(105) FEDERAL LANDS HIGHWAYS	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(110) DESIGNATED NATIONAL NETWORK	0
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	(20) TOLL	3
PROPOSED IMPROVEMENTS		(21) MAINTENANCE RESPONSIBILITY	01
(75A) TYPE OF WORK PROPOSED	31 (75B) WORK DONE BY	(37) HISTORICAL	5
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	101.0	NAVIGATION DATA	
(94) BRIDGE IMPROVEMENT COST (\$)	0	(38) NAVIGATION CONTROL	0
(95) ROADWAY IMPROVEMENT COST (\$)	235	(111) PIER OR ABUTMENT PROTECTION	5
(96) TOTAL PROJECT COST	507	(39) NAV VERT CLEARANCE (ft.)	0
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2004	(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
(114) FUTURE ADT	3601 (115) YEAR OF FUTURE ADT	(40) NAV HORIZONTAL CLEARANCE (ft.)	0
	2028		

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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

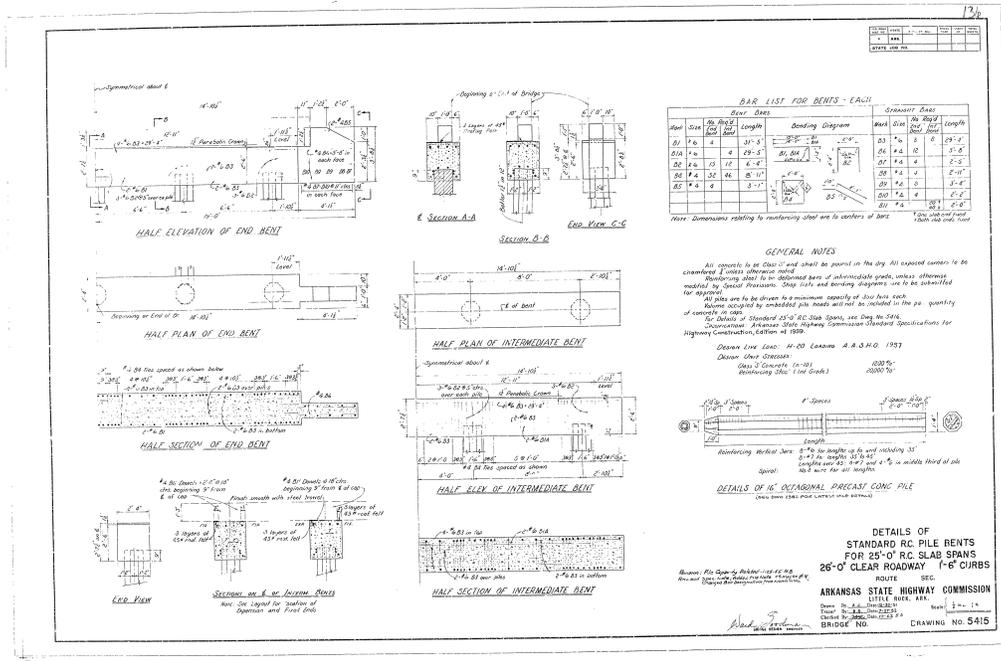


PHOTO 1  
 Description DRWG05415

Inspector:  
Inspection Date:

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### Bridge Inspection Report

## Pictures

PHOTO 1  
Description channel profile

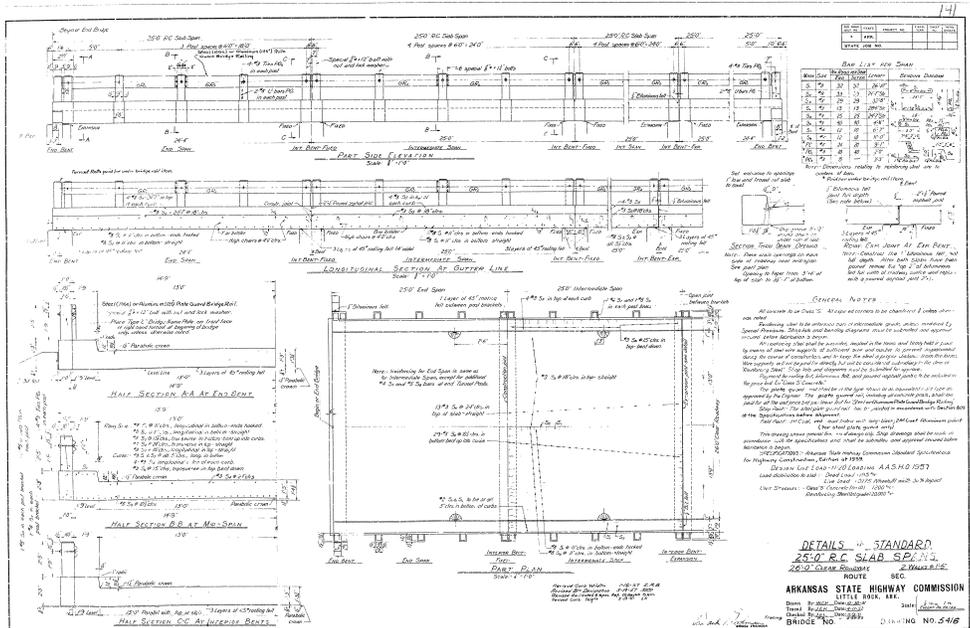


PHOTO 2  
Description DRWG05416

Inspector:

Inspection Date:

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### Bridge Inspection Report

### Pictures

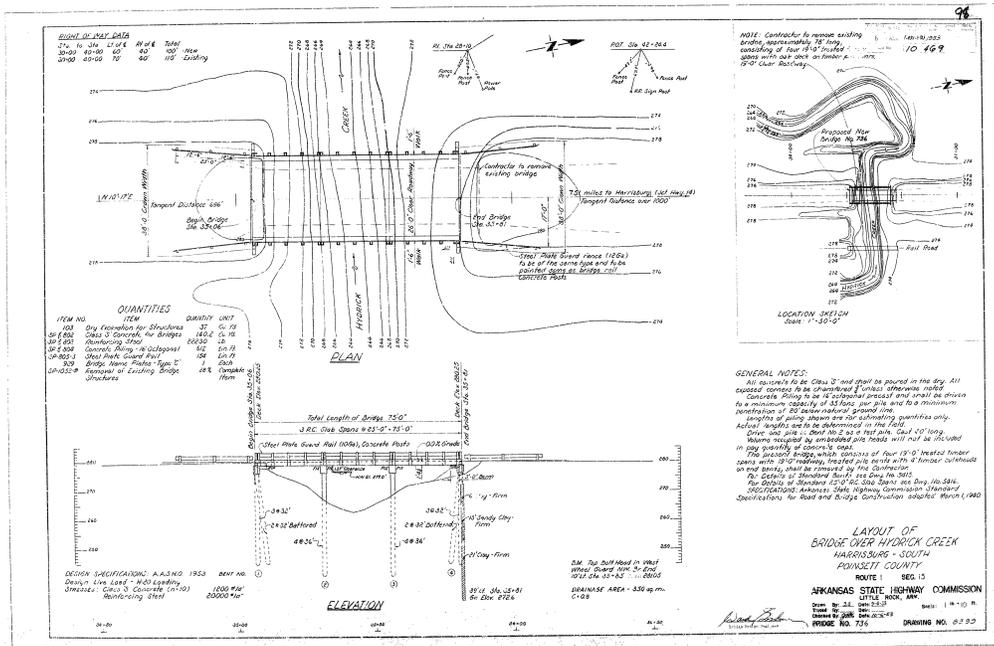


PHOTO 3

Description layout

**Inspector:**

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**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:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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**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:**

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**Date Repairs Completed:**

**Maintenance Comments:**

---

Inspector:

Structure Number: 00736

Inspection Date:

Facility Carried: SH 1-15- LM 0.90

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:

Structure Number: 00736

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:

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**Deficiency Description:**

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

**Work Description:**

---

**Date Repairs Completed:**

**Maintenance Comments:**

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**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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