

# Bridge Inspection Report

**03842**  
**SH 208-03 LM 5.78**  
**over**  
**Clay Bayou**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

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Inspector:

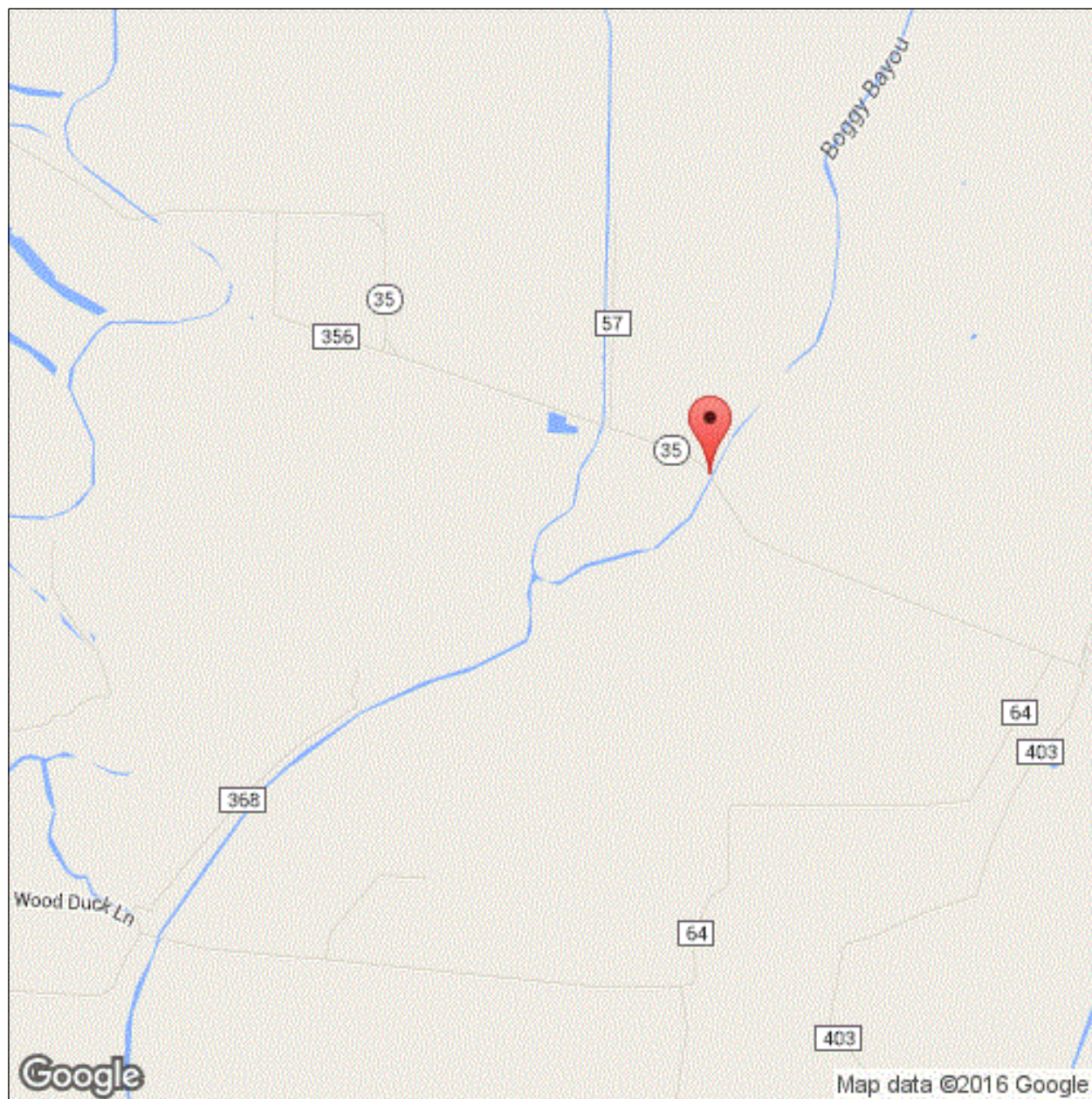
Structure Number: 03842

Inspection Date:

Facility Carried: SH 208-03 LM 5.78

### Bridge Inspection Report

### Location Map



Latitude: 33.487096559858024

Longitude: -91.27223831547627



Inspector:

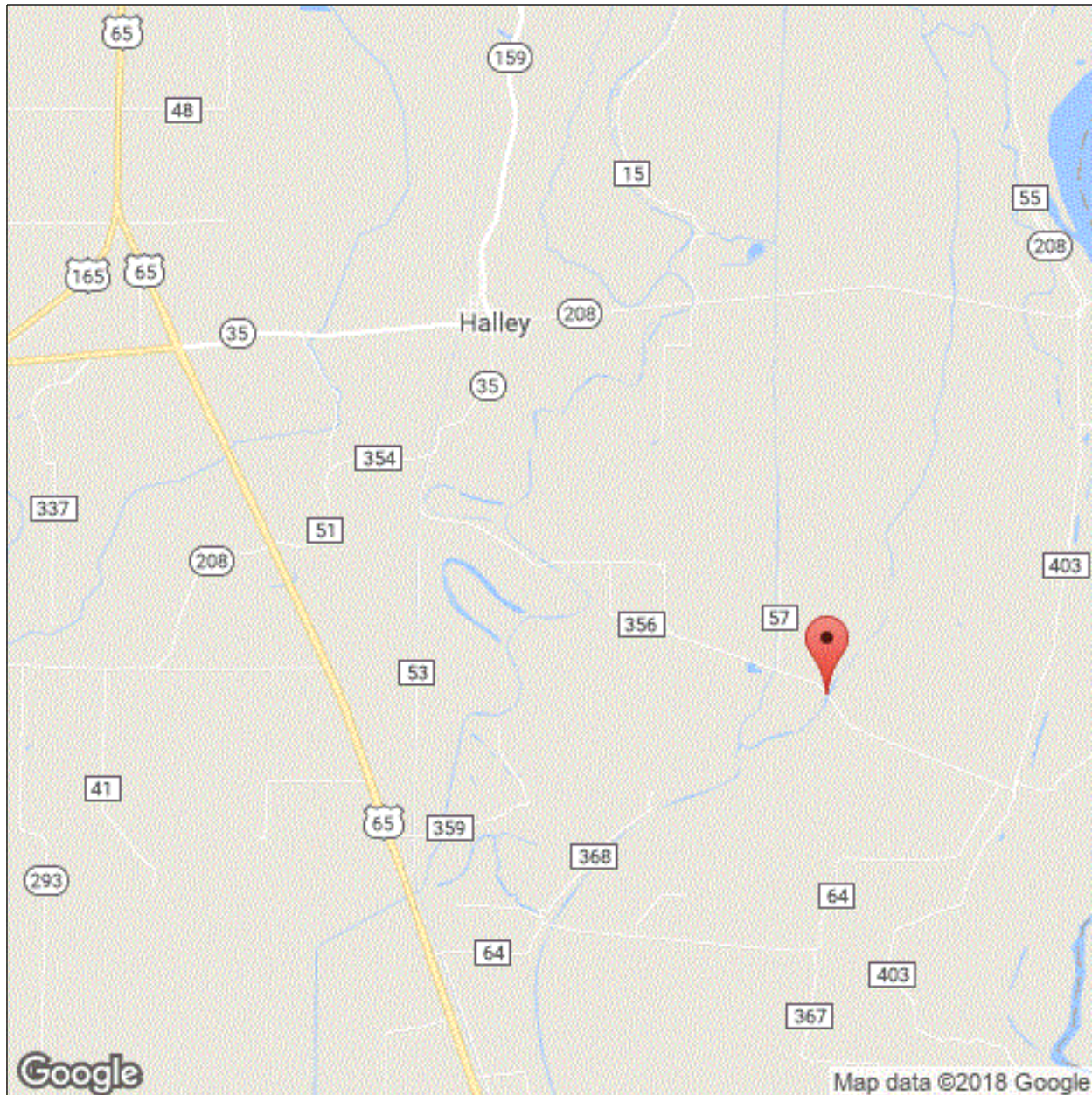
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**Executive Summary**

Beginning of structure toward Halley, North End.

06-07-2006, Dropping UW inspection due to sub-str elements are not continuously submerged. Normal water depth appears to be 1 foot or less at piles of bents 2 & 3. Signs of short durations of high water events. Signs of Embankment erosion at Abts. caps, but No channel scour up or down stream. Small areas of rock riprap on slopes. NBI Items #60 and #61 will fairly represent all elements. RLW.

Changed lm from 5.85 to 5.78 per straight line from technical services dated 12092010. dlv 01032011

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## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	04/10/2018
(8) STRUCTURE NUMBER	03842	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 208 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	02 (3) COUNTY CODE 017	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Clay Bayou	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 208-03 LM 5.78	CONDITION	
(9) LOCATION	1.6 Mi W Miss.RiverLeeve	(58) DECK	5
(11) MILEPOINT 5.756	(12) BASE HIGHWAY NETWORK 0	(59) SUPERSTRUCTURE	6 (60) SUBSTRUCTURE 7
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00	(61) CHANNEL & CHANNEL PROTECTION	6 (62) CULVERT N
(16) LATITUDE 33.487096559858024	(17) LONGITUDE -91.27223831547627	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	49.1
(43) STRUCTURE TYPE, MAIN		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
A) KIND OF MATERIAL/DESIGN:	3 - Steel	(66) INVENTORY RATING	29.0
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder	(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	6
(45) NUMBER OF SPANS IN MAIN	3 (46) NUMBER OF APPROACH	(68) DECK GEOMETRY	5
(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	6
(27) YEAR BUILT	1964 (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	170 (19) BYPASS DETOUR LENGTH	36C) APPROACH GUARDRAIL:	0
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	36D) APPROACH GUARDRAIL ENDS:	1
(109) AVERAGE DAILY TRUCK TRAFFIC	1	(113) SCOUR CRITICAL BRIDGES	5
GEOMETRIC DATA		SUFFICIENCY RATING	86.5 STATUS 0
(48) LENGTH OF MAX SPAN (ft.)	60 (49) STRUCTURE LENGTH (ft.)	178	
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 1.4 RIGHT 1.4	CLASSIFICATION	
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	24.3	(112) NBIS BRIDGE LENGTH	Y
(52) DECK WIDTH, OUT-TO-OUT (ft.)	28.5	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(32) APPROACH ROADWAY WIDTH (ft.)	22.0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	07
(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.)	24.3	(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	(75B) WORK DONE BY	(22) OWNER	01
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0	(37) HISTORICAL	5
(94) BRIDGE IMPROVEMENT COST (\$)	0	NAVIGATION DATA	
(95) ROADWAY IMPROVEMENT COST (\$)	0	(38) NAVIGATION CONTROL	0
(96) TOTAL PROJECT COST	0	(111) PIER OR ABUTMENT PROTECTION	5
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(39) NAV VERT CLEARANCE (ft.)	0
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0

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(114) FUTURE ADT 107

(115) YEAR OF FUTURE ADT 2028

(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
<b>12 - Reinforced Concrete Deck</b>	1- Ben.	5073	sq. ft.	3854	764	455	0
	Deck 28.5' by 178 All spans: Large areas of scaling, delaminating, and spalling with some minor-sized transverse cracking - heaviest on Span 1 with reflective efflorescence showing on soffit (a couple spalls with reinforcing steel exposed with some rust and initial section loss on steel). Soffits on Spans 1,2,3 & 4 show a couple areas of cracking and delaminating NOTE: State forces have previously repaired and patched numerous areas of the deck with concrete and asphalt.						
1080 - Delamination/Spall/Patched Area		454			104	350	
1130 - Cracking (RC and Other)		140			85	55	
1190 - Abrasion/Wear (PSC/RC)		625			575	50	
<b>107 - Steel Open Girder/Beam</b>	1- Ben.	875	ft.	575	275	25	0
	Girders 5 each at 175' All spans: Scattered areas of light surface rust - heavier areas of rust with some minor flaking and initial section loss at bents. (1' each end of each girder)and some corrosion to bottom of top flanges various locations.						
1000 - Corrosion		300			275	25	
515 - Steel Protective Coating		6098	sq. ft.	0	225	5873	0
3420 - Peeling/Bubbling/Cracking (Steel Protective Coatings)		275			200	75	
3440 - Effectiveness (Steel Protective Coatings)		5823			25	5798	
<b>215 - Reinforced Concrete Abutment</b>	1- Ben.	64	ft.	58	6	0	0
	32' each bents 1 & 4. Bent 4 abutment has cracks and small spalls with exposed rebar in back wall. Bent 4 abutment has erosion of end slope near north end.						
1090 - Exposed Rebar		2			2		
1130 - Cracking (RC and Other)		4			4		
<b>227 - Reinforced Concrete Pile</b>	1- Ben.	10	each	9	1	0	0
	5 each bents 2-3. Bent 2 pile 1 has some small spall on back face.						
1080 - Delamination/Spall/Patched Area		1			1		
<b>234 - Reinforced Concrete Pier Cap</b>	1- Ben.	60	ft.	51	9	0	0
	30' each bents 2-3. Bents 2 & 3: Hairline-sized horizontal cracks around top of caps on front and back faces. Bent 2 back small spall with exposed rebar.						
1080 - Delamination/Spall/Patched Area		2			2		
1090 - Exposed Rebar		1			1		
1130 - Cracking (RC and Other)		6			6		

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## Element Inspection

<b>303 - Assembly Joint with Seal</b>	1- Ben.	100	ft.	74	26	0	0
	25' each bents 1-4. Bent 3: A couple small areas where edge of deck has slightly spalled away - with some minor leakage. All joints have some debris impaction from dirt and gravel in gutterlines.						
2310 - Leakage		6			6		
2350 - Debris Impaction		15			15		
2360 - Adjacent Deck or Header		5			5		
<b>311 - Movable Bearing</b>	1- Ben.	15	each	0	10	5	0
	5 each spans 1-3. All bents: Some light surface rust - with some minor flaking and initial section loss under rockers and on masonry plates.						
1000 - Corrosion		15			10	5	
515 - Steel Protective Coating		60	sq. ft.	0	45	15	
<b>313 - Fixed Bearing</b>	1- Ben.	15	each	0	11	4	0
	5 each spans 1-3. All bents: Some light surface rust - with some minor flaking and initial section loss on masonry plates.						
1000 - Corrosion		15			11	4	
515 - Steel Protective Coating		45	sq. ft.	0	32	13	
<b>330 - Metal Bridge Railing</b>	1- Ben.	356	ft.	356			
	178' each side.						

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**Bridge Inspection Report**

**Pictures**

PHOTO 1

Description 03842 Layout Sheet

PHOTO 2

Description



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**Bridge Inspection Report**

**Sketches**

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### Bridge Inspection Report

#### Maintenance Needs

Date Reported: 4/24/2012 12:00:00 AM

Priority: D - Routine

Work Code:

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#### Deficiency Description:

End slope – Bent 4: Large area of erosion – beginning at left end of abutment cap and continuing down slope. See photos.

Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Inspector:

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### Bridge Inspection Report

## Maintenance Needs

Date Reported: 04/10/2018

Priority: C - Important

Work Code:

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### Deficiency Description:

Deck – all spans: Large areas of light scaling, delaminating, and spalling with some minor-sized transverse cracking – heaviest on Span 1 with reflective efflorescence showing on soffit (a couple spalls with reinforcing steel exposed with some rust and initial section loss on steel). Soffits on Spans 2 & 3 show a couple areas of cracking and delaminating  
NOTE: State forces have previously repaired and patched numerous areas of the deck with concrete and asphalt.  
See photos.

### Work Description:

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Date Repairs Completed:

Maintenance Comments:

---

Stage: Monitor



PHOTO 1      Description      Deck span 1 spalls and spalls filled with asphalt.



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#### Maintenance Needs

**Date Reported:** 4/24/2012 12:00:00 AM

**Priority:** D - Routine

**Work Code:**

---

**Deficiency Description:**

Girders – all spans: Scattered areas of light surface rust – heavier areas of rust with some minor flaking and initial section loss at bents.

See photos.

**Work Description:**

---

**Date Repairs Completed:**

**Maintenance Comments:**

---

**Date Reported:** 4/23/2014 12:00:00 AM

**Priority:** D - Routine

**Work Code:**

---

**Deficiency Description:**

Bearings – all bents: Some light surface rust – with some minor flaking and initial section loss under rockers and on masonry plates.

See photos.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

---

**Date Reported:** 04/10/2018

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

**Work Code:**

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**Deficiency Description:**

Route and section markers read Hwy 35 should read Hwy 208.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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