

# Bridge Inspection Report

**05261**  
**SH 23-Franklin Co.**  
**over**  
**Fane Creek**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

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Inspector:

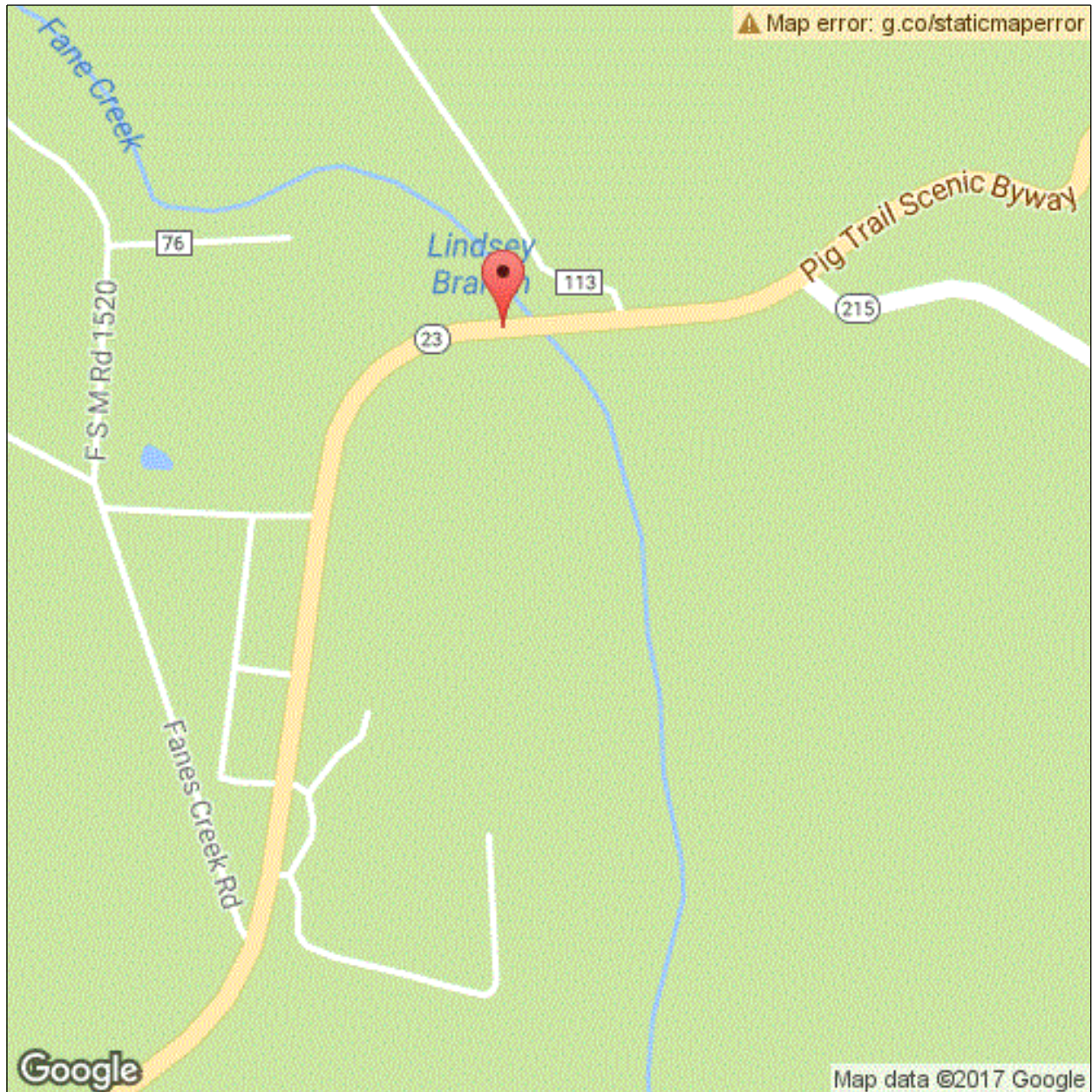
Inspection Date:

Structure Number: 05261

Facility Carried: SH 23-Franklin Co.

## Bridge Inspection Report

### Location Map



Latitude: 35.69151

Longitude: -93.81719



Inspector:

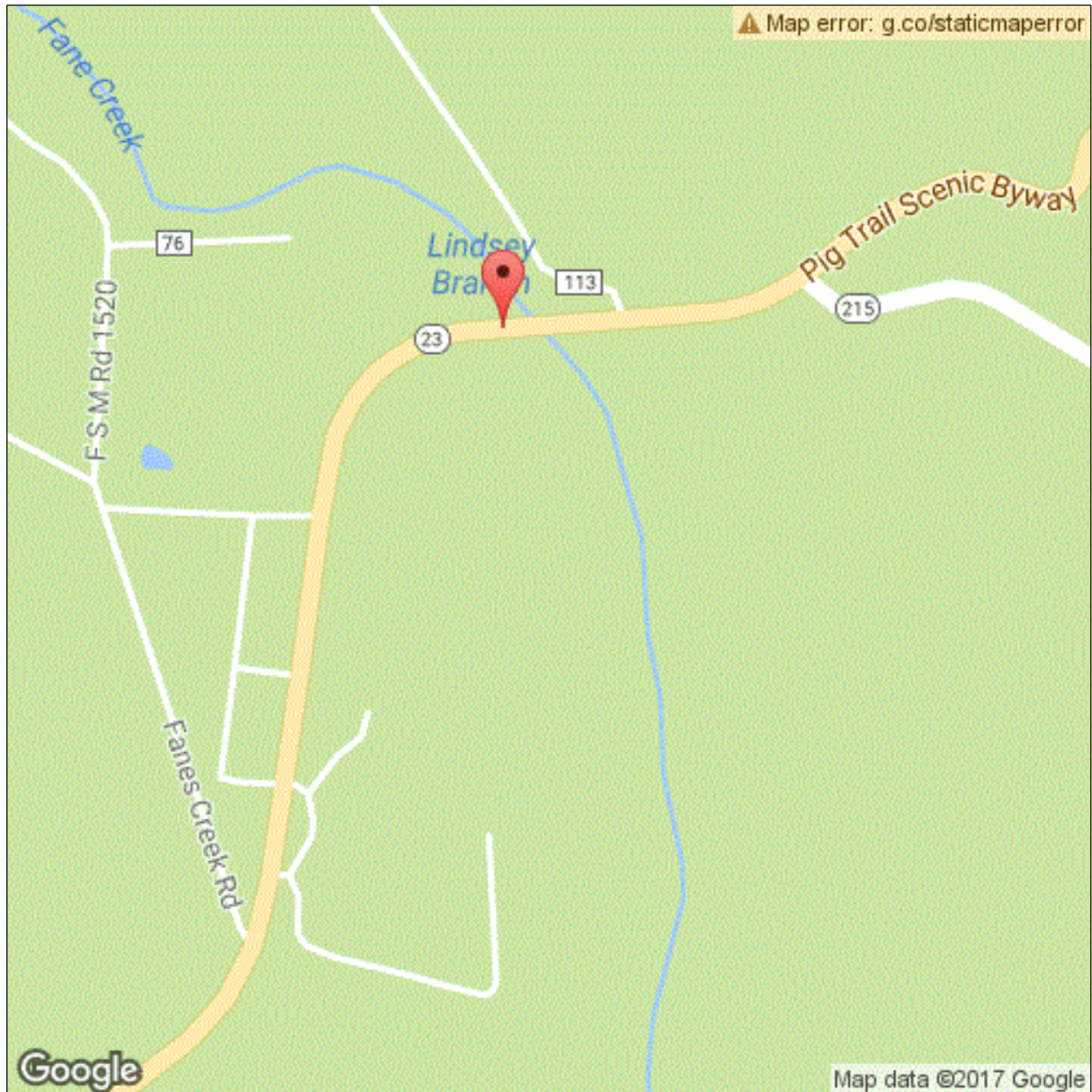
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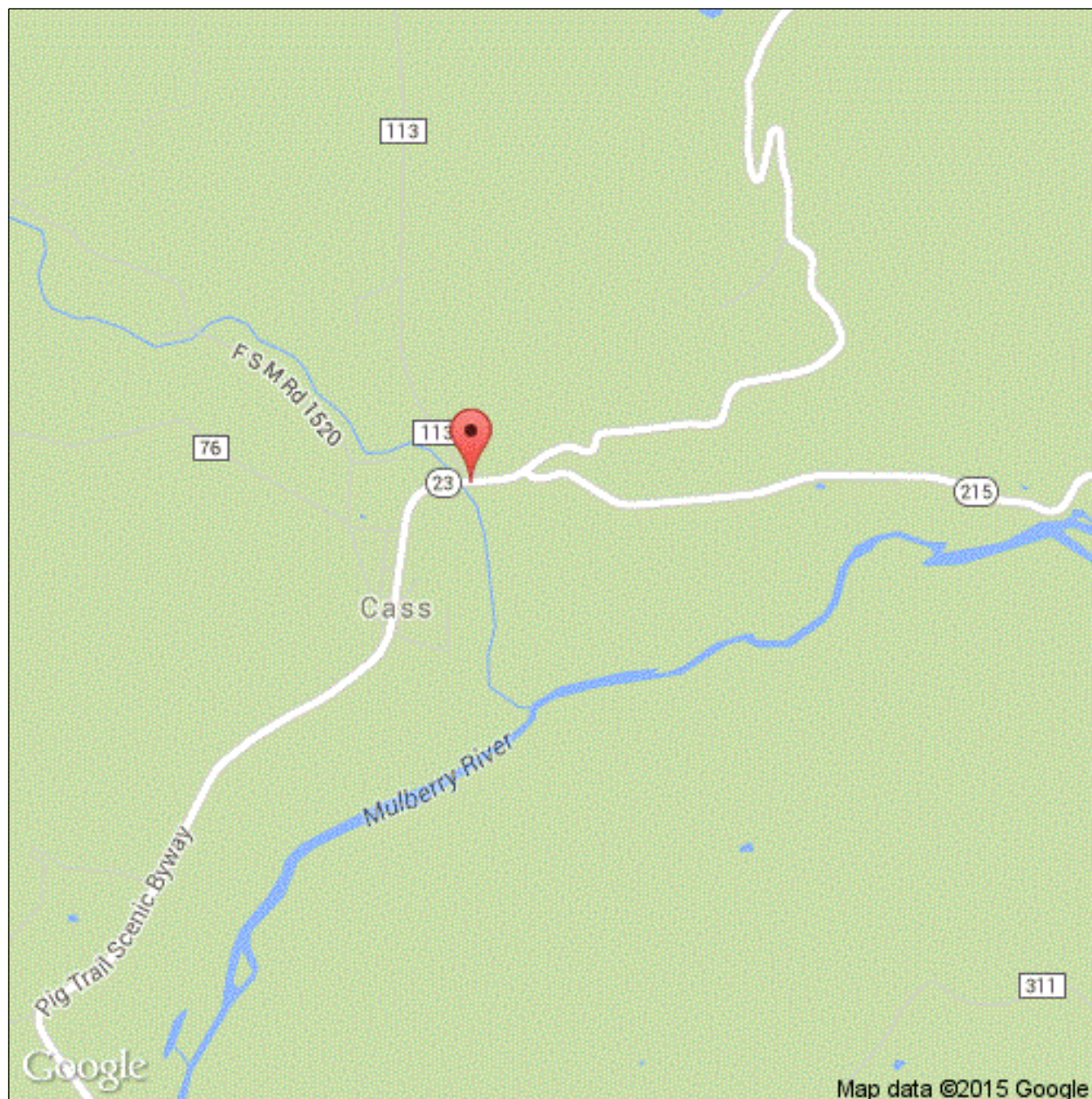
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## Bridge Inspection Report

### Executive Summary

Inspector:

Structure Number: 05261

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## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	08/09/2017
(8) STRUCTURE NUMBER	05261	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 23 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	04 (3) COUNTY CODE 047	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Fane Creek	C. OTHER SPECIAL	N 48 08/10/2015
(7) FACILITY CARRIED	SH 23-Franklin Co.		
(9) LOCATION	0.46 MI N OF CASS ARK		
(11) MILEPOINT 16.967	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000023070 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.69151	(17) LONGITUDE -93.81719		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	5
A) KIND OF MATERIAL/DESIGN: 1 - Concrete		(59) SUPERSTRUCTURE	5 (60) SUBSTRUCTURE 5
B) TYPE OF DESIGN/CONSTR: 01 - Slab		(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 1	(108A) WEARING SURFACE 1		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1972	(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	60.0
(29) AVERAGE DAILY TRAFFIC 740	(19) BYPASS DETOUR LENGTH 50	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	36.0
(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.) 35	(49) STRUCTURE LENGTH (ft.) 175	(67) STRUCTURAL EVALUATION	5
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0.5 RIGHT 0.5		(68) DECK GEOMETRY	6
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 34.1		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 37.8		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 34.1		(72) APPROACH ROADWAY ALIGNMENT	7
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 30	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	36A) BRIDGE RAILINGS:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 35.1		36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.) N 0		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) N 99.9		(113) SCOUR CRITICAL BRIDGES	8
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING	84.5 STATUS 0
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 0		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	06
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 1043	(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	1
		(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
38 - Reinforced Concrete Slab	1- Ben.	6615	sq. ft.	1905	3956	754	0
	The driving surface of the deck has areas of light to medium scale. Spans 2, 3 & 4 have medium scale in the gutters. The deck has numerous epoxy repairs adjacent to the deck joints that appear to be holding. There are longitudinal cracks visible on the undersurface of the deck. A majority of the cracks on the driving surface have been sealed. There is minor concrete deterioration at the corners of the deck over the intermediate Bents. There is concrete spalling with exposed reinforcing steel around the deck drains visible from the undersurface. The exposed reinforcing steel has measurable section loss.						
1080 - Delamination/Spall/Patched Area		133			121	12	
1090 - Exposed Rebar		7				7	
1130 - Cracking (RC and Other)		325			325		
1190 - Abrasion/Wear (PSC/RC)		4245			3510	735	
205 - Reinforced Concrete Column	1- Ben.	12	each	2	10	0	0
	There is light abrasion at the base of the columns.						
1130 - Cracking (RC and Other)		1			1		
1190 - Abrasion/Wear (PSC/RC)		9			9		
210 - Reinforced Concrete Pier Wall	1- Ben.	112	ft.	109	2	1	0
	Web walls between the columns. Bent # 2 web walls have vertical cracking.						
1090 - Exposed Rebar		1				1	
1130 - Cracking (RC and Other)		2			2		
215 - Reinforced Concrete Abutment	1- Ben.	80	ft.	54	26	0	0
	There is light scale on the face of Bent 1 abutment from apparent water leakage through the deck joint seals.						
1190 - Abrasion/Wear (PSC/RC)		26			26		
234 - Reinforced Concrete Pier Cap	1- Ben.	136	ft.	65	44	27	0
	-Bent 2 has large spalled areas on the Span # 2 side of the cap at the keyways. -Bent 4 has a vertical crack over Column 3 with delamination on the back face of the cap. -Bent 4 has concrete deterioration with section loss and exposed reinforcing steel on the Lt end of the cap. -Bent 5 has a large spall with exposed reinforcing steel on the ahead face of the cap near the centerline of the cap. -Bent 5 Lt side has concrete deterioration with exposed reinforcing steel.						
1080 - Delamination/Spall/Patched Area		44			29	15	
1090 - Exposed Rebar		14			2	12	
1130 - Cracking (RC and Other)		13			13		



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Element Inspection

302 - Compression Joint Seal	1- Ben.	265	ft.	211	16	38	0
The joint seals at Bents # 5 & 6 have adhesion failures with vegetation growing in the joints.							
2320 - Seal Adhesion		54			16	38	
321 - Reinforced Concrete Approach Slab	1- Ben.	2178	sq. ft.	1942	236	0	0
There are minor cracks visible on the surface of the approach slabs.							
1130 - Cracking (RC and Other)		236			236		
330 - Metal Bridge Railing	1- Ben.	350	ft.	350			
Aluminum rails with no protective coating. The bridge railings appear to be misaligned due to deck misalignment.							

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## Bridge Inspection Report

Pictures

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## Bridge Inspection Report

Sketches

Inspector:

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## Bridge Inspection Report

### Maintenance Needs

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

Priority: C - Important

Work Code:

---

#### Deficiency Description:

##### Substructure

The substructure caps have concrete deterioration and spalling with exposed reinforcing steel in the end of the caps on the left side of Bents # 4 and # 5. The cap of Bent # 2, Span # 2 has spalling in the keyway areas that expose reinforcing steel.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Open



PHOTO 1      Description      -Bent 4 has concrete deterioration with section loss and exposed reinforcing steel on the Lt end of the cap.

Stage: Open



PHOTO 2      Description      -Bent 5 Lt side has concrete deterioration with exposed reinforcing steel.



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## Bridge Inspection Report

### Maintenance Needs

Stage: Open



PHOTO 3      Description      -Bent 5 has a large spall with exposed reinforcing steel on the ahead face of the cap near the centerline of the cap.

Stage: Open



PHOTO 4      Description      -Bent 2 has a 3' wide spalled area on the Rt side of the cap at the keyway.  
-Bent 2 has has a 3' spalled area on the Lt side of the cap with exposed reinforcing steel.

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### Maintenance Needs

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

Priority: D - Routine

Work Code:

---

Deficiency Description:

R. C. Slab Span

The undersurface of the slab spans on the right side of structure has spalling with exposed reinforcing steel. The exposed reinforcing steel has active corrosion with layers of flaking rust.

Work Description:

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Date Repairs Completed:

Maintenance Comments:

---

Stage: Open



PHOTO 1      Description      There is concrete spalling with exposed reinforcing steel around the deck drains visible from the undersurface.

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### Maintenance Needs

Date Reported: 8/13/2013 12:00:00 AM

Priority: D - Routine

Work Code:

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Deficiency Description:

Deck

The gutters have light / medium scale typical with a few existing repairs that are failing.

Work Description:

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Date Repairs Completed:

Maintenance Comments:

---

Stage: Open



PHOTO 1      Description      Deck  
The gutters have light / medium scale.

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### Maintenance Needs

Date Reported: 08/09/2017

Priority: C - Important

Work Code:

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Deficiency Description:

Channel

The channel has a few large trees that are partially restricting the channel flow.

Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Open



PHOTO 1 Description