

Bridge Inspection Report

05661

US 167/Independ.Co
over
WHITE RVR, CR 513



Inspection Date:

Inspected By:

Inspection Type(s):

TABLE OF CONTENTS

	PAGE NUMBER
LOCATION MAP	3
NATIONAL BRIDGE INVENTORY	8
ELEMENTS	9
PICTURES	14
SKETCHES	17

Inspector:

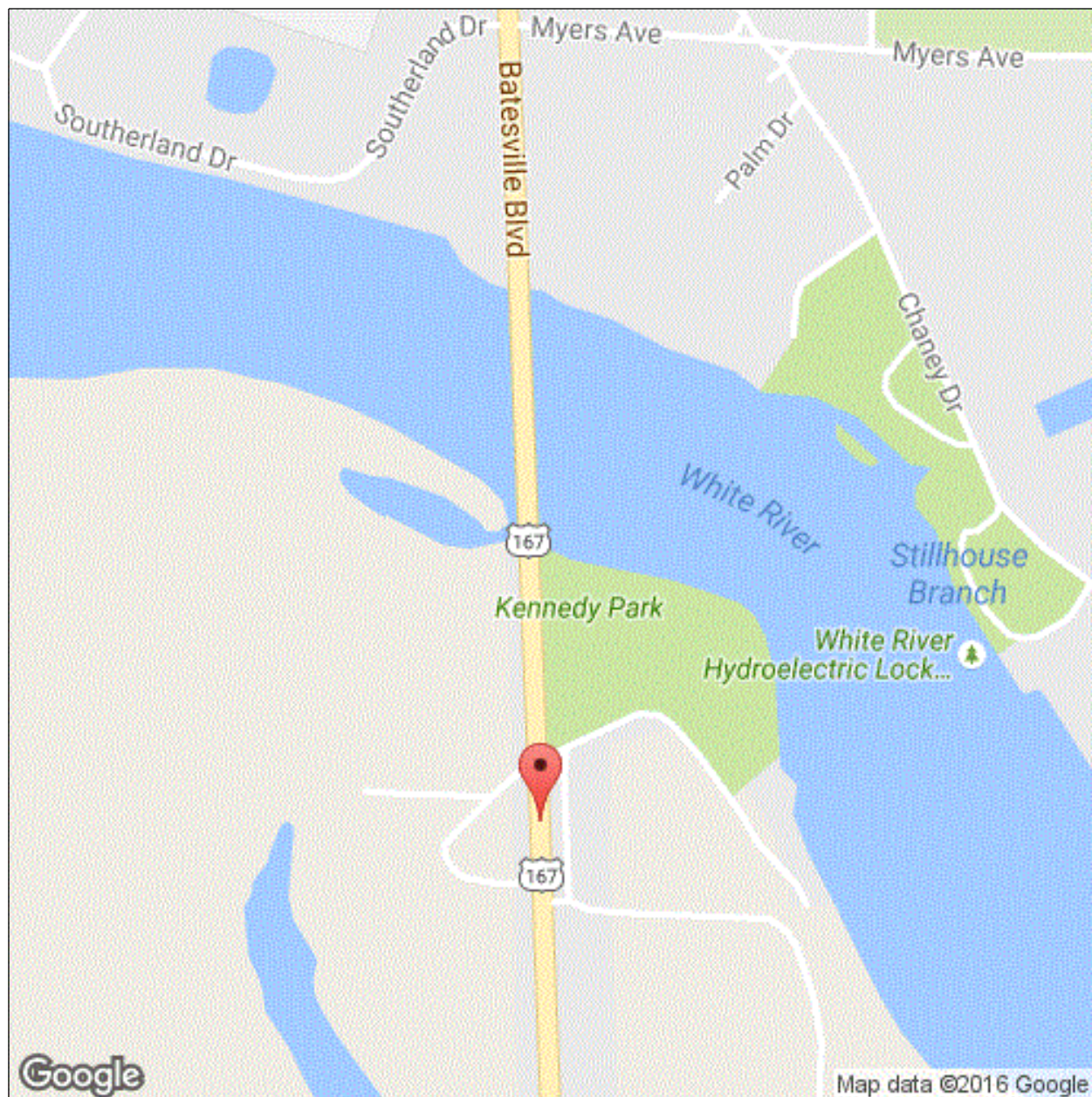
Structure Number: 05661

Inspection Date:

Facility Carried: US 167/Independ.Co

Bridge Inspection Report

Location Map



Latitude: 35.75616

Longitude: -91.64094

Inspector:

Structure Number: 05661

Inspection Date:

Facility Carried: US 167/Independ.Co

Bridge Inspection Report

Location Map



Latitude: 35.75616

Longitude: -91.64094

Inspector:

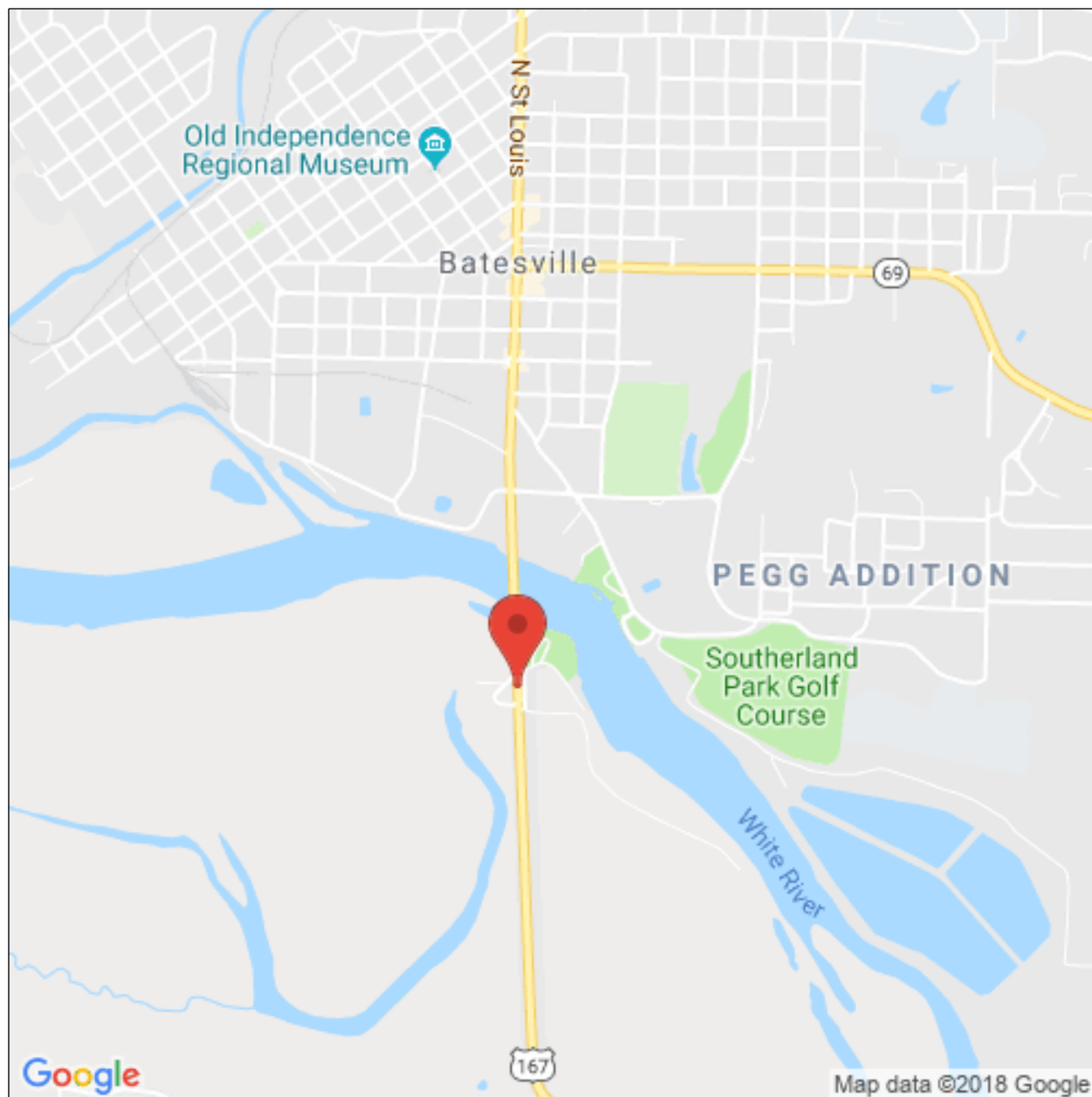
Structure Number: 05661

Inspection Date:

Facility Carried: US 167/Independ.Co

Bridge Inspection Report

Location Map



Latitude: 35.75616

Longitude: -91.64094

Inspector:

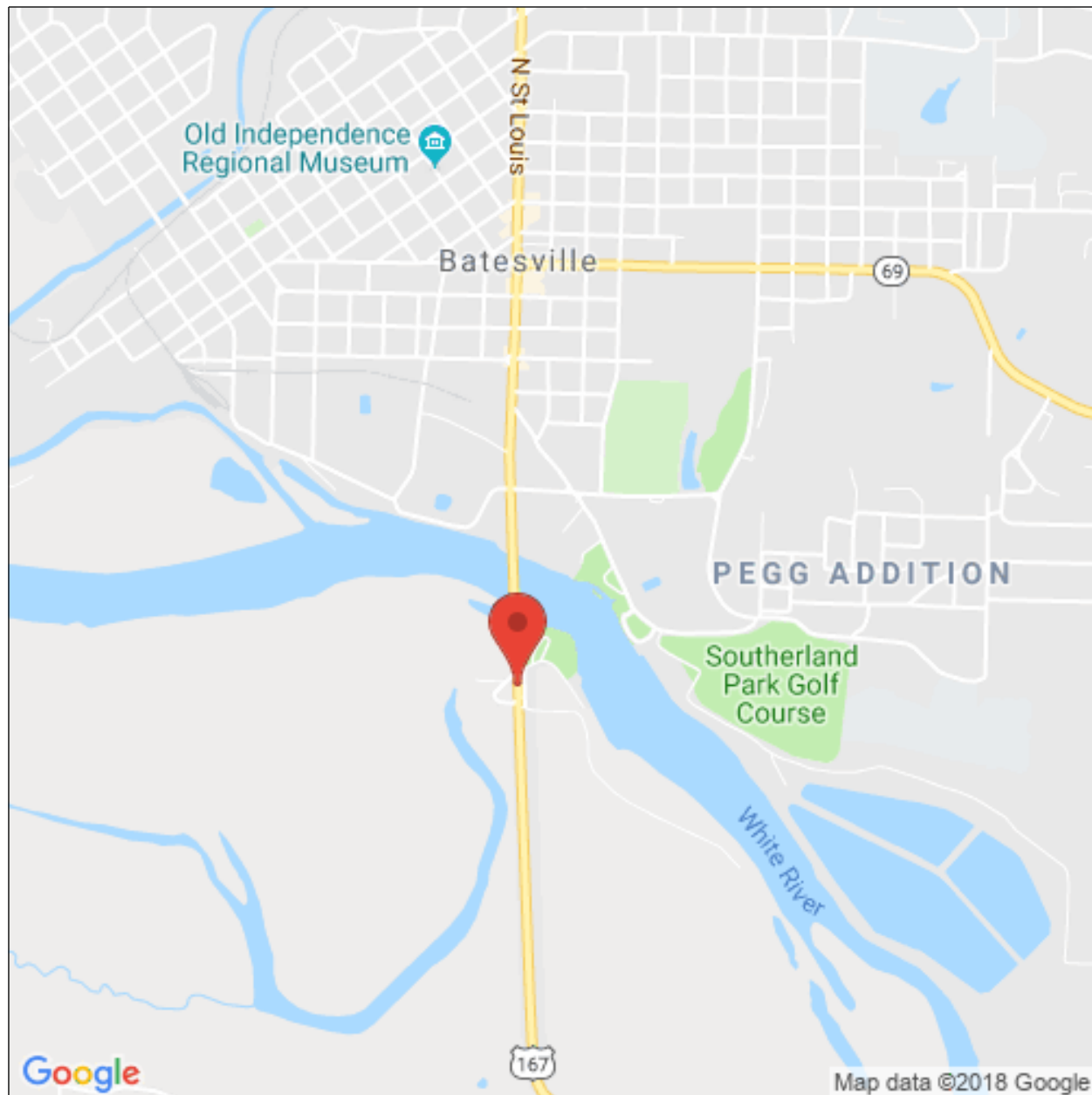
Structure Number: 05661

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Bridge Inspection Report

Location Map



Latitude: 35.75616

Longitude: -91.64094

Inspector:

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Bridge Inspection Report

Executive Summary

Log Mile running North.

Job Number: 5640

See attached Form-III for detailed descriptions and locations of deficiencies.

Inspector:

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	10/08/2018
(8) STRUCTURE NUMBER	05661	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 167 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	05 (3) COUNTY CODE 063	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	03700	B. UNDERWATER INSPECTION	Y 60 10/01/2018
(6) FEATURES INTERSECTED	WHITE RVR, CR 513	C. OTHER SPECIAL	Y 24 10/03/2019
(7) FACILITY CARRIED	US 167/Independ.Co		
(9) LOCATION	1.20 MI N JCT AR 25		
(11) MILEPOINT 17.246	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000167170 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.75616	(17) LONGITUDE -91.64094		
(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: 4 - Steel continuous		(59) SUPERSTRUCTURE	6 (60) SUBSTRUCTURE 6
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION	8 (62) CULVERT N
(44) STRUCTURE TYPE, APPROACH SPANS			
A) KIND OF MATERIAL/DESIGN: 1 - Concrete			
B) TYPE OF DESIGN/CONSTR: 01 - Slab			
(45) NUMBER OF SPANS IN MAIN 5	(46) NUMBER OF APPROACH 16		
(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 1979	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	5
(42) TYPE OF SERVICE ON 1 UNDER 6		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 04 UNDER 02		(64) OPERATING RATING	56.0
(29) AVERAGE DAILY TRAFFIC 23000	(19) BYPASS DETOUR LENGTH 12	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	34.0
(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.) 184	(49) STRUCTURE LENGTH (ft.) 1700	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	7
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 64.0		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	3
(52) DECK WIDTH, OUT-TO-OUT (ft.) 66.8		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 78.1		(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:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 65.0		36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.) H 12.42		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) H 5.4		(113) SCOUR CRITICAL BRIDGES	5
(56) MIN LATERAL UNDER CLEARANCE (ft.) 5.6		SUFFICIENCY RATING	75.3 STATUS 2
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	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
(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 30363	(115) YEAR OF FUTURE ADT 2028	(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	1
		(39) NAV VERT CLEARANCE (ft.)	0
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
		(40) NAV HORIZONTAL CLEARANCE (ft.)	0

Inspector:

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Bridge Inspection Report

Element Inspection

Rollup

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	73968	sq. ft.	54064	13400	6504	0
38 - Reinforced Concrete Slab	1- Ben.	56381	sq. ft.	22956	16599	16826	0
1120 - Efflorescence/Rust Staining		1050		0	1050	0	0
107 - Steel Open Girder/Beam	1- Ben.	9096	ft.	8986	21	89	0
515 - Steel Protective Coating		124396	sq. ft.	124251	145	0	0
205 - Reinforced Concrete Column	1- Ben.	9	each	9	0	0	0
210 - Reinforced Concrete Pier Wall	1- Ben.	120	ft.	120	0	0	0
215 - Reinforced Concrete Abutment	1- Ben.	148	ft.	144	4	0	0
227 - Reinforced Concrete Pile	1- Ben.	144	each	143	0	1	0
234 - Reinforced Concrete Pier Cap	1- Ben.	1655	ft.	1515	108	32	0
301 - Pourable Joint Seal	1- Ben.	2496	ft.	1408	16	1052	20
2320 - Seal Adhesion		48		0	0	28	20
302 - Compression Joint Seal	1- Ben.	256	ft.	0	42	139	75
305 - Assembly Joint without Seal	1- Ben.	128	ft.	0	128	0	0
310 - Elastomeric Bearing	1- Ben.	66	each	31	17	18	0
515 - Steel Protective Coating		128	sq. ft.	64	12	26	26
311 - Movable Bearing	1- Ben.	27	each	0	0	27	0
515 - Steel Protective Coating		54	sq. ft.	0	0	27	27
313 - Fixed Bearing	1- Ben.	27	each	0	0	27	0
515 - Steel Protective Coating		54	sq. ft.	0	0	27	27
321 - Reinforced Concrete Approach Slab	1- Ben.	4620	sq. ft.	4214	256	150	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	3891	ft.	3866	25	0	0

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Bridge Inspection Report

Element Inspection

Approach 2 Spans 18, 24, 25 & 26

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	17688	sq. ft.	16685	500	503	0
See attached Form-III for detailed descriptions and locations of deficiencies.							
1090 - Exposed Rebar		3		0	0	3	0
1120 - Efflorescence/Rust Staining		250		0	250	0	0
1130 - Cracking (RC and Other)		750		0	250	500	0
107 - Steel Open Girder/Beam	1- Ben.	2376	ft.	2360	15	1	0
See attached Form-III for detailed descriptions and locations of deficiencies.							
1000 - Corrosion		15		0	15	0	0
1020 - Connection		1		0	0	1	0
515 - Steel Protective Coating		19116	sq. ft.	19071	45	0	0
3430 - Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)		45		0	45	0	0
205 - Reinforced Concrete Column	1- Ben.	9	each	9	0	0	0
215 - Reinforced Concrete Abutment	1- Ben.	74	ft.	70	4	0	0
See attached Form-III for detailed descriptions and locations of deficiencies.							
1130 - Cracking (RC and Other)		4		0	4	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	201	ft.	197	4	0	0
See attached Form-III for detailed descriptions and locations of deficiencies.							
1120 - Efflorescence/Rust Staining		4		0	4	0	0
301 - Pourable Joint Seal	1- Ben.	128	ft.	128	0	0	0
302 - Compression Joint Seal	1- Ben.	256	ft.	0	42	139	75
See attached Form-III for detailed descriptions and locations of deficiencies.							
2320 - Seal Adhesion		75		0	0	0	75
2340 - Seal Cracking		181		0	42	139	0
310 - Elastomeric Bearing	1- Ben.	18	each	0	16	2	0
See attached Form-III for detailed descriptions and locations of deficiencies.							
1000 - Corrosion		16		0	16	0	0
1020 - Connection		2		0	0	2	0
515 - Steel Protective Coating		32	sq. ft.	0	12	10	10
3430 - Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)		32		0	12	10	10
311 - Movable Bearing	1- Ben.	27	each	0	0	27	0
See attached Form-III for detailed descriptions and locations of deficiencies.							

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Bridge Inspection Report

Element Inspection

1000 - Corrosion		27		0	0	27	0
515 - Steel Protective Coating		54	sq. ft.	0	0	27	27
313 - Fixed Bearing	1- Ben.	27	each	0	0	27	0
See attached Form-III for detailed descriptions and locations of deficiencies.							
1000 - Corrosion		27		0	0	27	0
515 - Steel Protective Coating		54	sq. ft.	0	0	27	27
321 - Reinforced Concrete Approach Slab	1- Ben.	2310	sq. ft.	2160	0	150	0
See attached Form-III for detailed descriptions and locations of deficiencies.							
1130 - Cracking (RC and Other)		150		0	0	150	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	528	ft.	518	10	0	0
Spalls with rebar exposed to Right parapet @ Span 26.							
1090 - Exposed Rebar		10		0	10	0	0

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Bridge Inspection Report

Element Inspection

Main Spans 19 - 23

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	56280	sq. ft.	37379	12900	6001	0
See attached Form-III for detailed descriptions and locations of deficiencies.							
1090 - Exposed Rebar		1		0	0	1	0
1120 - Efflorescence/Rust Staining		5400		0	5400	0	0
1130 - Cracking (RC and Other)		10000		0	4000	6000	0
1190 - Abrasion/Wear (PSC/RC)		3500		0	3500	0	0
107 - Steel Open Girder/Beam	1- Ben.	6720	ft.	6626	6	88	0
See attached Form-III for detailed descriptions and locations of deficiencies.							
1000 - Corrosion		87		0	0	87	0
1020 - Connection		7		0	6	1	0
515 - Steel Protective Coating		105280	sq. ft.	105180	100	0	0
3430 - Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)		100		0	100	0	0
210 - Reinforced Concrete Pier Wall	1- Ben.	120	ft.	120	0	0	0
A few minor cracks.							
234 - Reinforced Concrete Pier Cap	1- Ben.	382	ft.	356	26	0	0
See attached Form-III for detailed descriptions and locations of deficiencies.							
1120 - Efflorescence/Rust Staining		15		0	15	0	0
1130 - Cracking (RC and Other)		11		0	11	0	0
301 - Pourable Joint Seal	1- Ben.	1280	ft.	1280	0	0	0
305 - Assembly Joint without Seal	1- Ben.	128	ft.	0	128	0	0
Finger Joints have large amount of debris in trough.							
2350 - Debris Impaction		128		0	128	0	0
310 - Elastomeric Bearing	1- Ben.	48	each	31	1	16	0
See attached Form-III for detailed descriptions and locations of deficiencies.							
1000 - Corrosion		16		0	0	16	0
1020 - Connection		1		0	1	0	0
515 - Steel Protective Coating		96	sq. ft.	64	0	16	16
3430 - Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)		32		0	0	16	16
331 - Reinforced Concrete Bridge Railing	1- Ben.	1680	ft.	1680	0	0	0

Inspector:

Structure Number: 05661

Inspection Date:

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Bridge Inspection Report

Element Inspection

Approach 1 Spans 1 - 17

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
38 - Reinforced Concrete Slab	1- Ben.	56381	sq. ft.	22956	16599	16826	0
See attached Form-III for detailed descriptions and locations of deficiencies.							
1080 - Delamination/Spall/Patched Area		49		0	49	0	0
1090 - Exposed Rebar		6		0	0	6	0
1120 - Efflorescence/Rust Staining		1050		0	1050	0	0
1130 - Cracking (RC and Other)		2320		0	500	1820	0
1190 - Abrasion/Wear (PSC/RC)		30000		0	15000	15000	0
215 - Reinforced Concrete Abutment	1- Ben.	74	ft.	74	0	0	0
227 - Reinforced Concrete Pile	1- Ben.	144	each	143	0	1	0
Spalls to Pile 1 @ Bent 11.							
1080 - Delamination/Spall/Patched Area		1		0	0	1	0
234 - Reinforced Concrete Pier Cap	1- Ben.	1072	ft.	962	78	32	0
See attached Form-III for detailed descriptions and locations of deficiencies.							
1080 - Delamination/Spall/Patched Area		41		0	20	21	0
1090 - Exposed Rebar		8		0	0	8	0
1130 - Cracking (RC and Other)		61		0	58	3	0
301 - Pourable Joint Seal	1- Ben.	1088	ft.	0	16	1052	20
See attached Form-III for detailed descriptions and locations of deficiencies.							
2310 - Leakage		512		0	0	512	0
2320 - Seal Adhesion		48		0	0	28	20
2350 - Debris Impaction		528		0	16	512	0
321 - Reinforced Concrete Approach Slab	1- Ben.	2310	sq. ft.	2054	256	0	0
Approach Slab @ Abutment 1 has settled @ bridge end. The majority of Approach Slab is covered with asphalt & is not visible.							
4000 - Settlement		256		0	256	0	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	1683	ft.	1668	15	0	0
Spalls with rebar exposed to Left parapet.							
1090 - Exposed Rebar		15		0	15	0	0

Inspector:

Inspection Date:

Structure Number: 05661

Facility Carried: US 167/Independ.Co

Bridge Inspection Report

Pictures

PHOTO 1

Description

PHOTO 1

Description

Inspector:

Inspection Date:

Structure Number: 05661

Facility Carried: US 167/Independ.Co

Bridge Inspection Report

Pictures

PHOTO 2

Description

PHOTO 3

Description

Inspector:

Inspection Date:

Structure Number: 05661

Facility Carried: US 167/Independ.Co

Bridge Inspection Report

Pictures

PHOTO 4

Description

Inspector:

Inspection Date:

Structure Number: 05661

Facility Carried: US 167/Independ.Co

Bridge Inspection Report

Sketches

Inspector:

Structure Number: 05661

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 10/20/2016

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Caps at Bents 2 thru 12 & 18.

Spalls to the caps, some with rebar exposed.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Spalls with rebar exposed to Left end of cap @ Bent 2.

Stage: Assigned



PHOTO 2 Description Large spall to Left end of cap @ Bent 3.

Inspector:

Structure Number: 05661

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 10/19/2016

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Bents 18 back & 23 ahead.

Elastomeric pads have moved to edge of cap or moved ahead.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Bearing @ Girder 5 Bent 18 back.

Inspector:

Structure Number: 05661

Inspection Date:

Facility Carried: US 167/Independ.Co

Bridge Inspection Report

Maintenance Needs

Date Reported: 10/19/2016

Priority: C - Important

Work Code: N/A

Deficiency Description:

Joints

Finger Joints at Bents 18 & 23 Joint troughs are filled with debris.

Joint material at Bents 17 & 24 has fallen out and is missing.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Debris in finger joint @ Bent 23.

Stage: Assigned



PHOTO 2 Description Joint material at Bent 17 Joint has fallen out and is missing.

Inspector:

Inspection Date:

Structure Number: 05661

Facility Carried: US 167/Independ.Co

Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description Debris in Finger joint @ Bent 18.

Stage: Assigned



PHOTO 4 Description Joint material @ Bent 24 has fallen down @ is missing in Left lane.

Inspector:

Structure Number: 05661

Inspection Date:

Facility Carried: US 167/Independ.Co

Bridge Inspection Report

Maintenance Needs

Date Reported: 10/19/2016

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Poured joint seals material is cracked & deteriorated.
Joints are filled with debris.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Debris impaction @ Bent 2.

Inspector:

Inspection Date:

Structure Number: 05661

Facility Carried: US 167/Independ.Co

Bridge Inspection Report

Maintenance Needs

Date Reported: 10/19/2016

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Debris on caps at Bents 17,18,23,24,25 & Abutment 2

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Debris on cap @ Bent 17.

Stage: Assigned



PHOTO 2 Description Debris on cap @ Abutment 2.

Inspector:

Inspection Date:

Structure Number: 05661

Facility Carried: US 167/Independ.Co

Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description Debris on cap @ Bent 18.

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Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 10/19/2016

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Deck at all spans several unsealed transverse and longitudinal cracks

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Transverse cracking to deck @ Span 23.

Stage: Assigned



PHOTO 2 Description Transverse cracking to deck @ Span 20.

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Bridge Inspection Report

Maintenance Needs

Date Reported: 10/19/2016

Priority: C - Important

Work Code: N/A

Deficiency Description:

1 Anchor bolt broke at Bearings 1 & 3 at end of Span 18.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Bearing at Girder 3 Span 18 has broke anchor bolt.

Stage: Open



PHOTO 2 Description Bearing @ Girder 1 Span 18 has broke anchor bolt.