

# Bridge Inspection Report

**03259**

**Us-49/Sec-11/L0.25**

**over**

**Drainage Ditch**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

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Inspector:

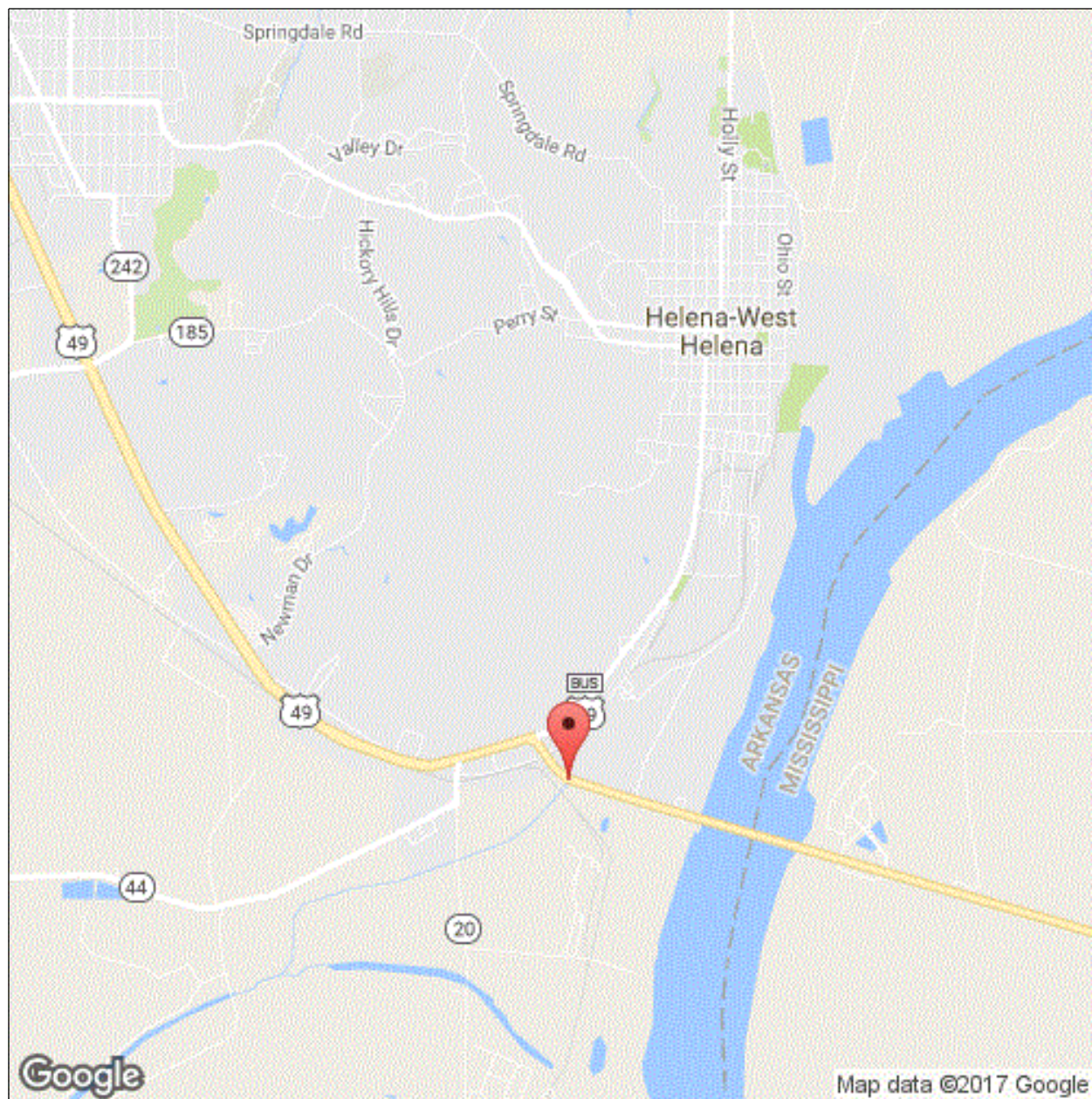
Structure Number: 03259

Inspection Date:

Facility Carried: Us-49/Sec-11/L0.25

## Bridge Inspection Report

### Location Map



Latitude: 34.500111

Longitude: -90.602013



Inspector:

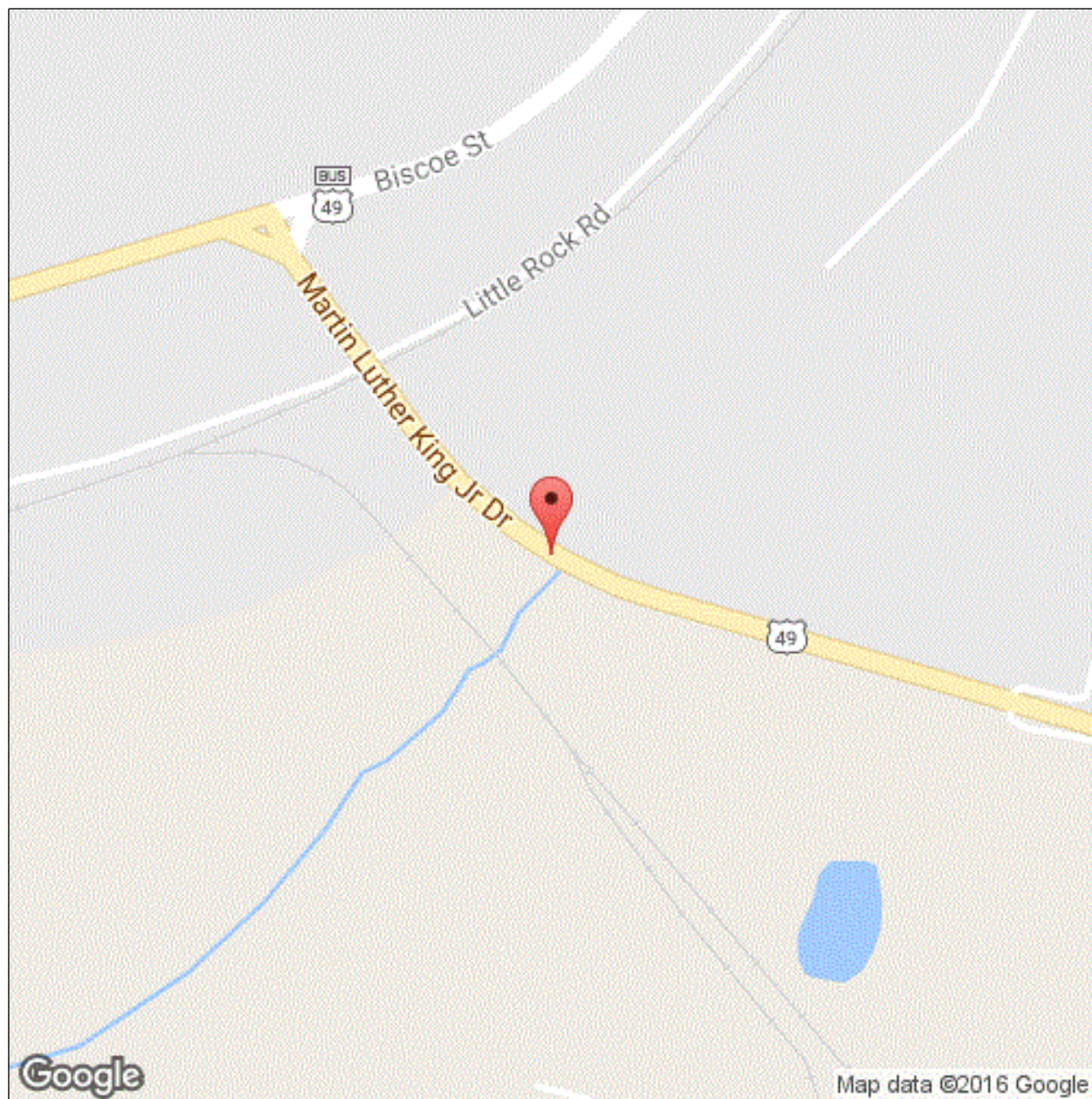
Structure Number: 03259

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## Bridge Inspection Report

### Location Map



Latitude: 34.500111

Longitude: -90.602013



Inspector:

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Inspection Date:

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## Bridge Inspection Report

### Location Map



Latitude: 34.500111

Longitude: -90.602013

Inspector:

Inspection Date:

Structure Number: 03259

Facility Carried: Us-49/Sec-11/L0.25

## Bridge Inspection Report

### Location Map



Latitude: 34.500111

Longitude: -90.602013



**Inspector:**

**Inspection Date:**

**Structure Number:** 03259

**Facility Carried:** Us-49/Sec-11/L0.25

**Bridge Inspection Report**

**Executive Summary**

Inspector:

Structure Number: 03259

Inspection Date:

Facility Carried: Us-49/Sec-11/L0.25

## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	03/28/2019
(8) STRUCTURE NUMBER	03259	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 49 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	01	(3) COUNTY CODE	107
(4) PLACE CODE	30360	A. FRACTURE CRITICAL DETAIL	N
(6) FEATURES INTERSECTED	Drainage Ditch	B. UNDERWATER INSPECTION	N
(7) FACILITY CARRIED	Us-49/Sec-11/L0.25	C. OTHER SPECIAL	N
(9) LOCATION	.74 Mi W Of Mississippi		
(11) MILEPOINT	0.250	(12) BASE HIGHWAY NETWORK	1
(13A) LRS INVENTORY ROUTE	0000049110	(13B) SUBROUTE NUMBER	00
(16) LATITUDE	34.500111	(17) LONGITUDE	-90.602013
(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
B) TYPE OF DESIGN/CONSTR:	01 - Slab	(60) SUBSTRUCTURE	6
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	5
A) KIND OF MATERIAL/DESIGN:	0 - Other	(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR:	00 - Other		
(45) NUMBER OF SPANS IN MAIN	4	(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	1961	(106) YEAR RECONSTRUCTED	0000
(42) TYPE OF SERVICE	ON 1 UNDER 5	(31) DESIGN LOAD	5
(28) LANES	ON 02 UNDER 00	(63) METHOD USED TO DETERMINE OPERATING RATING	1
(29) AVERAGE DAILY TRAFFIC	4600	(64) OPERATING RATING	58.0
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(109) AVERAGE DAILY TRUCK TRAFFIC	1	(66) INVENTORY RATING	35.1
		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	26	(49) STRUCTURE LENGTH (ft.)	104
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 1.6 RIGHT 1.6	(67) STRUCTURAL EVALUATION	5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	27.9	(68) DECK GEOMETRY	4
(52) DECK WIDTH, OUT-TO-OUT (ft.)	33.5	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(32) APPROACH ROADWAY WIDTH (ft.)	41.0	(71) WATERWAY ADEQUACY	8
(33) BRIDGE MEDIAN	0	(34) SKEW (DEG.)	0
(35) STRUCTURE FLARED	0	(10) INV RTE, MIN VERT CLEAR (ft.)	99.99
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	31.5	(72) APPROACH ROADWAY ALIGNMENT	7
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	(36) TRAFFIC SAFETY FEATURE	
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	36A) BRIDGE RAILINGS:	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	36B) TRANSITIONS:	0
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	36C) APPROACH GUARDRAIL:	0
		36D) APPROACH GUARDRAIL ENDS:	0
		(113) SCOUR CRITICAL BRIDGES	5
		SUFFICIENCY RATING	47.9
		STATUS	0
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	31	(75B) WORK DONE BY	1
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	131.0	(112) NBIS BRIDGE LENGTH	Y
(94) BRIDGE IMPROVEMENT COST (\$)	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(95) ROADWAY IMPROVEMENT COST (\$)	306	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	14
(96) TOTAL PROJECT COST	737	(100) STRAHNET HIGHWAY DESIGNATION	0
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2003	(101) PARALLEL STRUCTURE DESIGNATION	N
(114) FUTURE ADT	6776	(102) DIRECTION OF TRAFFIC	2
(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:

Structure Number: 03259

Inspection Date:

Facility Carried: Us-49/Sec-11/L0.25

## 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.	3120	sq. ft.	3040	28	26	26
Span #1 soffit left side at bent #2 lower corner has 2' spall with exposed rebar with 10% section loss. Span 1 soffit has hairline crack full length. Span #2 soffit left side at bent #2 lower corner has 1' spall with exposed rebar with 10% section loss. Span 2 soffit longitudinal crack full length with light efflorescence. Span 3 soffit has longitudinal crack full length. Span #4 soffit center span has longitudinal crack with efflorescence, 20' of delaminations, and 3' of exposed rebar with 5% section loss. Bent # 4 left side of slab at joint is cracked and spalled 1' on side of slab with no rebar exposed. Span 1 left lane has 6" x 1' asphalt patch at joint. Span #3 deck left lane has 2' x 3' and 3' x 5' patches. Span 4 at bent 4 left lane has 1' x 2' patched area. Span 4 at bent 4 left lane has 4" x 3' asphalt patch at joint, right lane has 1' x 2' asphalt patch at joint. Span #4 deck at bent #4 right lane has a 2' delamination. Span #4 deck has longitudinal crack down center with small areas of delaminations. Deck cracks have been epoxy sealed.							
1080 - Delamination/Spall/Patched Area		48		0	28	20	0
1090 - Exposed Rebar		6		0	0	6	0
1130 - Cracking (RC and Other)		26		0	0	0	26
<b>215 - Reinforced Concrete Abutment</b>	1- Ben.	94	ft.	83	5	6	0
Abutment #1 right wing has 2' spall with exposed rebar no section loss. Abutment #1 center has 1' of exposed rebar due to poor concrete coverage with 5% section loss. Abutment #2 has two 1' spalls near left side with exposed rebar and 5% section loss, a 3' area at top in center spalled with no exposed rebar, and a 2' delamination on left. Abutment #1 has large deep animal hole under abutment near center.							
1080 - Delamination/Spall/Patched Area		5		0	3	2	0
1090 - Exposed Rebar		6		0	2	4	0
<b>227 - Reinforced Concrete Pile</b>	1- Ben.	15	each	13	2	0	0
Bent #2 piles #3,5 have a hairline crack at top all the way around the pile. Bent 3 pile 3 has longitudinal crack at to backface.							
1130 - Cracking (RC and Other)		2		0	2	0	0

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## Bridge Inspection Report

## Element Inspection

<b>234 - Reinforced Concrete Pier Cap</b>	1- Ben.	92	ft.	82	2	8	0
<p>All interior bent caps on bottom has snap ties exposed and rusted.  Bent #2 cap ahead face has two spalls one above pile #2 that is 1' at top no rebar exposed and one above pile #4 that is 2' and has exposed rebar with no section loss.  Bent #3 cap back face has two spalls one on left lower corner that is 1' with exposed rebar no section loss, and one above pile #4 at bottom that is 1' with exposed rebar and 5% section loss.  Bent #3 cap ahead face has a 3' area on left side at top with rebar exposed due to poor concrete coverage with 10% section loss.  Bent #4 cap bottom has two 6" spalls with exposed rebar due to poor concrete coverage with 5% section loss.  Bent #4 cap ahead face has a 1' spall above pile #2 with exposed rebar and 5% section loss.</p>							
1080 - Delamination/Spall/Patched Area		1		0	0	1	0
1090 - Exposed Rebar		9		0	2	7	0
<b>301 - Pourable Joint Seal</b>	1- Ben.	167	ft.	167	0	0	0
<b>330 - Metal Bridge Railing</b>	1- Ben.	208	ft.	208	0	0	0
<b>331 - Reinforced Concrete Bridge Railing</b>	1- Ben.	208	ft.	198	10	0	0
Span #4 both sides have 10 total pieces of rebar exposed due to poor concrete coverage with no section loss.							
1090 - Exposed Rebar		10		0	10	0	0



**Inspector:**

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**Bridge Inspection Report**

**Pictures**

PHOTO 1

Description

PHOTO 1

Description

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**Bridge Inspection Report**

**Pictures**

PHOTO 2

Description



**Inspector:**

**Inspection Date:**

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**Bridge Inspection Report**

**Sketches**

Inspector:

Structure Number: 03259

Inspection Date:

Facility Carried: Us-49/Sec-11/L0.25

## Bridge Inspection Report

### Maintenance Needs

Date Reported: 03/09/2017

Priority: C - Important

Work Code: N/A

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#### Deficiency Description:

Abutment #1 right wing has 2' spall with exposed rebar no section loss.

Abutment #1 center has 1' of exposed rebar due to poor concrete coverage with 5% section loss.

Abutment #2 has two 1' spalls near left side with exposed rebar and 5% section loss, a 3' area at top in center spalled with no exposed rebar, and a 2' delamination on left.

Bent #2 cap ahead face has two spalls one above pile #2 that is 1' at top no rebar exposed and one above pile #4 that is 2' and has exposed rebar with no section loss.

Bent #3 cap back face has two spalls one on left lower corner that is 1' with exposed rebar no section loss, and one above pile #4 at bottom that is 1' with exposed rebar and 5% section loss.

Bent #3 cap ahead face has a 3' area on left side at top with rebar exposed due to poor concrete coverage with 10% section loss.

Bent #4 cap bottom has two 6" spalls with exposed rebar due to poor concrete coverage with 5% section loss.

Bent #4 cap ahead face has a 1' spall above pile #2 with exposed rebar and 5% section loss.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

---

Stage: Monitor



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description

Inspector:

Structure Number: 03259

Inspection Date:

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## Bridge Inspection Report

### Maintenance Needs

Stage: Monitor



PHOTO 3 Description

Stage: Open



PHOTO 4 Description Typical spall on caps wit exposed rebar.

Stage: Monitor



PHOTO 4 Description Bent #2 cap

Stage: Open



PHOTO 5 Description Bent # 2 front face over pile # 4.



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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 03/09/2017

Priority: C - Important

Work Code: N/A

---

#### Deficiency Description:

Span #3 deck left lane has one 2' spall, one 3' spall, and one 1' spall with no rebar exposed.

Span #4 deck at bent #4 right lane has a 2' delamination.

Span #4 deck has longitudinal crack down center with small areas of delaminations.

#### Work Description:

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Date Repairs Completed: 03/28/2019

#### Maintenance Comments:

Spalls have been patched and deck cracks have been epoxy sealed at time of inspection.

---

#### Stage: Open



PHOTO 1 Description

#### Stage: Monitor



PHOTO 1 Description Span #3 deck



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## Bridge Inspection Report

### Maintenance Needs

Stage: Monitor



PHOTO 2 Description Span #4 has longitudinal crack down center with small areas of delaminations.

Stage: Monitor



PHOTO 3 Description Span 4 at bent 4 left lane patched.

Stage: Monitor



PHOTO 4 Description Span 4 crack has been epoxy sealed.

Stage: Monitor



PHOTO 5 Description Span 3 left lane patches.



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### Bridge Inspection Report

#### Maintenance Needs

Date Reported: 03/16/2015

Priority: D - Routine

Work Code: N/A

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#### Deficiency Description:

Abutment #1 has large deep animal hole under abutment near center.

#### Work Description:

---

#### Date Repairs Completed:

#### Maintenance Comments:

---

#### Stage: Open



PHOTO 1      Description      Abutment # 2 left wing.

#### Stage: Monitor



PHOTO 1      Description      Abutment #1 has large deep animal hole under abutment near center.

Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Stage: Monitor



PHOTO 2      Description      Abutment 1 animal hole has been sandbagged.

Stage: Open



PHOTO 3      Description      Abutment # 2 animal hole .

Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 03/09/2017

Priority: D - Routine

Work Code: N/A

---

#### Deficiency Description:

Dirt and debris is built up on approach shoulders making it hard for water to run off.

#### Work Description:

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#### Date Repairs Completed:

#### Maintenance Comments:

---

Stage: Open



PHOTO 1      Description      Dirt and debris is built up on approach shoulders making it hard for water to run off.



Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 03/09/2017

Priority: D - Routine

Work Code: N/A

---

#### Deficiency Description:

Span #1 soffit left side at bent #2 lower corner has 2" spall with exposed rebar with 10% section loss.

Span #2 soffit left side at bent #2 lower corner has 1" spall with exposed rebar with 10% section loss.

Span #4 soffit center span has longitudinal crack with efflorescence, 20" of delaminations, and 3" of exposed rebar with 5% section loss.

Bent # 4 left side of slab at joint is cracked and spalled 1" on side of slab with no rebar exposed.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

---

Stage: Open



PHOTO 1      Description      Span #2 soffit left side at bent #2 lower corner has 1' spall with exposed rebar with 10% section loss.

Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 03/28/2019

Priority: C - Important

Work Code: N/A

---

#### Deficiency Description:

Abutment 2 right approach rail has 20'+- collision damage approximately 25' from bridge end.

#### Work Description:

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#### Date Repairs Completed:

#### Maintenance Comments:

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#### Stage: Open



PHOTO 1      Description      Abutment 2 right approach rail has 20' +- collision damage 25' from bridge end.



Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 03/28/2019

Priority: C - Important

Work Code: N/A

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#### Deficiency Description:

Beaver dam across channel, left side of bridge approximately 60' from bridge.

#### Work Description:

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#### Date Repairs Completed:

#### Maintenance Comments:

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#### Stage: Open



PHOTO 1      Description      Large beaver dam left side, approximately 60' from bridge.

Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 03/09/2017

Priority: C - Important

Work Code: N/A

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#### Deficiency Description:

Trees and vegetation are growing beside and under bridge.

#### Work Description:

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#### Date Repairs Completed:

#### Maintenance Comments:

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#### Stage: Open



PHOTO 1      Description      Trees and vegetation are growing beside and under bridge and onto roadway.

#### Stage: Monitor



PHOTO 1      Description      Trees and vegetation growing beside and under bridge.

**Inspector:** Davis, Joel

**Inspection Date:** 03/28/2019

**Structure Number:** 03259

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## Bridge Inspection Report

### Deck/Culvert Notes

Deck:

Span #1 soffit left side at bent #2 lower corner has 2' spall with exposed rebar with 10% section loss.

Span 1 soffit has hairline crack full length.

Span #2 soffit left side at bent #2 lower corner has 1' spall with exposed rebar with 10% section loss.

Span 2 soffit longitudinal crack full length with light efflorescence.

Span 3 soffit has longitudinal crack full length.

Span #4 soffit center span has longitudinal crack with efflorescence, 20' of delaminations, and 3' of exposed rebar with 5% section loss.

Bent #4 left side of slab at joint is cracked and spalled 1' on side of slab with no rebar exposed.

Span 1 left lane has 6" x 1' asphalt patch at joint.

Span #3 deck left lane has 2' x 3' and 3' x 5' patches.

Span 4 at bent 4 left lane has 1' x 2' patched area.

Span 4 at bent 4 left lane has 4" x 3'

asphalt patch at joint, right lane has 1' x 2'

asphalt patch at joint.

Span #4 deck at bent #4 right lane has a 2' delamination.

Span #4 deck has longitudinal crack down center with small areas of delaminations.

Deck cracks been epoxy sealed.

Approach slabs:

Approach slabs are overlaid with asphalt.

Railing:

Span #4 both sides have 10 total pieces of rebar exposed due to poor concrete coverage with no section loss.

### SuperStructure Notes

### SubStructure Notes

Abutments:

Abutment #1 right wing has 2' spall with exposed rebar no section loss.

Abutment #1 center has 1' of exposed rebar due to poor concrete coverage with 5% section loss.

Abutment #2 has two 1' spalls near left side with exposed rebar and 5% section loss, a 3' area at top in center spalled with no exposed rebar, and a 2' delamination on left.

Abutment #1 has large deep animal hole under abutment near center.

Piles:

Bent #2 piles #3,5 have a hairline crack at top all the way around the pile.

Caps:

All interior bent caps on bottom has snap ties exposed and rusted.

Bent #2 cap ahead face has two spalls one above pile #2 that is 1' at top no rebar exposed and one above pile #4 that is 2' and has exposed rebar with no section loss.

Bent #3 cap back face has two spalls one on left lower corner that is 1' with exposed rebar no section loss, and one above pile #4 at bottom that is 1' with exposed rebar and 5% section loss.

Bent #3 cap ahead face has a 3' area on left side at top with rebar exposed due to poor concrete coverage with 10% section loss.

Bent #4 cap bottom has two 6" spalls with exposed rebar due to poor concrete coverage with 5% section loss.

Bent #4 cap ahead face has a 1' spall above pile #2 with exposed rebar and 5% section loss.

**Inspector:** Davis, Joel  
**Inspection Date:** 03/28/2019

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**Bridge Inspection Report**

<b>Load Posting</b>
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<b>Legal Load</b>	<b>Calculated</b>
CODE 4 VEHICLE (22 tons)	36 Tons
CODE 9 VEHICLE (31 tons)	42 Tons
CODE 5 VEHICLE (40 tons)	55 Tons

If calculated < legal load posting is required