

Bridge Inspection Report

A1533
US 62 Fulton Co.
over
WOLF CREEK



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

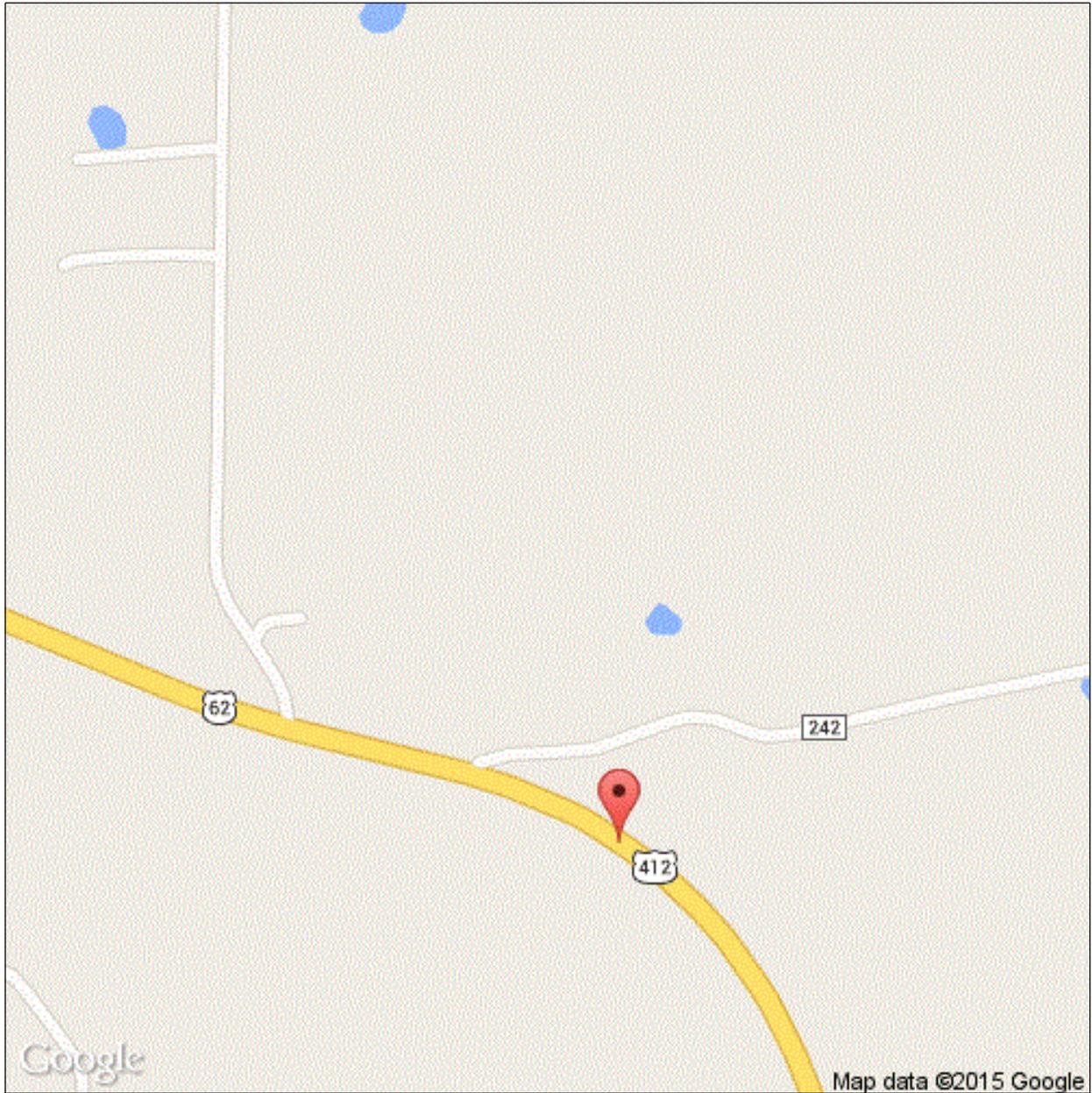
Structure Number: A1533

Inspection Date:

Facility Carried: US 62 Fulton Co.

Bridge Inspection Report

Location Map



Latitude: 36.3538619199128

Longitude: -91.77844736441801

Inspector:

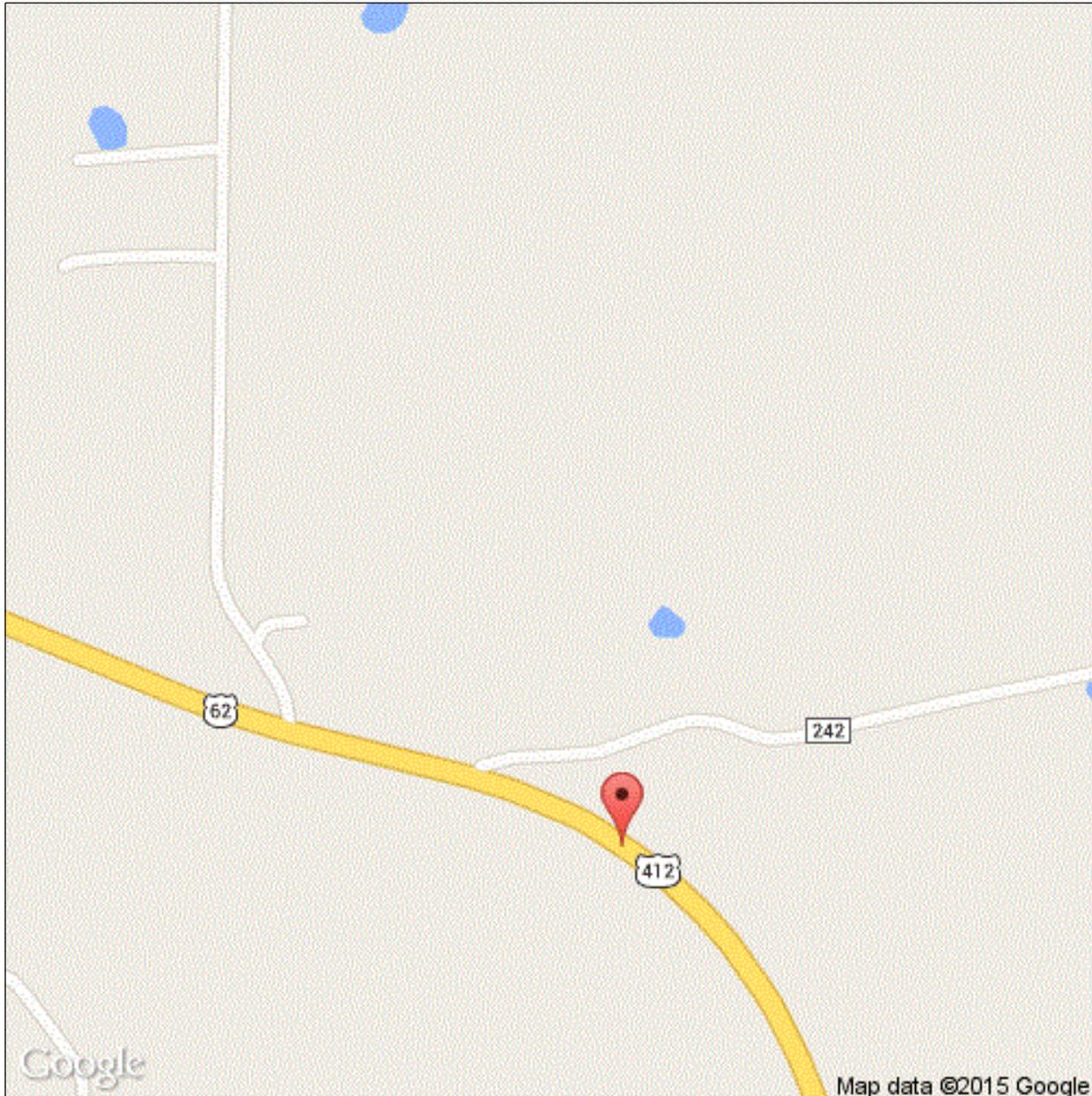
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Bridge Inspection Report

Location Map



Latitude: 36.3538619199128

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Inspector:

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Bridge Inspection Report

Executive Summary

Log Mile looking Southeast.

Job Number: 5417

Inspector:

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION	
(1) STATE CODE	056 - Arkansas
(8) STRUCTURE NUMBER	A1533
(5) INV. ROUTE (ON/UNDER)	1 2 1 62 0
(2) HIGHWAY AGENCY	05 (3) COUNTY CODE 049
(4) PLACE CODE	00000
(6) FEATURES INTERSECTED	WOLF CREEK
(7) FACILITY CARRIED	US 62 Fulton Co.
(9) LOCATION	2.89 MI E JCT SH 9 & 62
(11) MILEPOINT 2.889	(12) BASE HIGHWAY NETWORK 1
(13A) LRS INVENTORY ROUTE	0000062130 (13B) SUBROUTE NUMBER 00
(16) LATITUDE 36.3538619199128	(17) LONGITUDE -91.77844736441801
(98A) BORDER BRIDGE CODE	
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT

STRUCTURE TYPE AND MATERIAL	
(43) STRUCTURE TYPE, MAIN	
A) KIND OF MATERIAL/DESIGN:	1 - Concrete
B) TYPE OF DESIGN/CONSTR:	01 - Slab
(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 4	(46) NUMBER OF APPROACH 0
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 6
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0

AGE OF SERVICE	
(27) YEAR BUILT 1955	(106) YEAR RECONSTRUCTED 0000
(42) TYPE OF SERVICE ON 1	UNDER 5
(28) LANES ON 02	UNDER 00
(29) AVERAGE DAILY TRAFFIC 4700	(19) BYPASS DETOUR LENGTH 24
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014	
(109) AVERAGE DAILY TRUCK TRAFFIC 1	

GEOMETRIC DATA	
(48) LENGTH OF MAX SPAN (ft.) 25	(49) STRUCTURE LENGTH (ft.) 100
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1.5	RIGHT 1.5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	25.9
(52) DECK WIDTH, OUT-TO-OUT (ft.)	29.8
(32) APPROACH ROADWAY WIDTH (ft.)	34.1
(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.)	25.9
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0

PROPOSED IMPROVEMENTS	
(75A) TYPE OF WORK PROPOSED 31	(75B) WORK DONE BY 1
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	127.0
(94) BRIDGE IMPROVEMENT COST (\$)	0
(95) ROADWAY IMPROVEMENT COST (\$)	235
(96) TOTAL PROJECT COST	560
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2002
(114) FUTURE ADT 5200	(115) YEAR OF FUTURE ADT 2028

INSPECTIONS	
(90) INSPECTION DATE	03/11/2019
(91) DESIGNATED INSPECTION FREQUENCY	24
(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
A. FRACTURE CRITICAL DETAIL	N
B. UNDERWATER INSPECTION	N
C. OTHER SPECIAL	N

CONDITION	
(58) DECK	6
(59) SUPERSTRUCTURE 6	(60) SUBSTRUCTURE 5
(61) CHANNEL & CHANNEL PROTECTION 7	(62) CULVERT N

LOAD RATING AND POSTING	
(31) DESIGN LOAD	4
(63) METHOD USED TO DETERMINE OPERATING RATING	1
(64) OPERATING RATING	45.0
(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(66) INVENTORY RATING	27.0
(70) BRIDGE POSTING	5
(41) STRUCTURE OPEN/POSTED/CLOSED	A

APPRAISAL	
(67) STRUCTURAL EVALUATION	5
(68) DECK GEOMETRY	3
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(71) WATERWAY ADEQUACY	8
(72) APPROACH ROADWAY ALIGNMENT	7
(36) TRAFFIC SAFETY FEATURE	
36A) BRIDGE RAILINGS:	0
36B) TRANSITIONS:	0
36C) APPROACH GUARDRAIL:	1
36D) APPROACH GUARDRAIL ENDS:	1
(113) SCOUR CRITICAL BRIDGES	8
SUFFICIENCY RATING 47.8	STATUS 2

CLASSIFICATION	
(112) NBIS BRIDGE LENGTH	Y
(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
(100) STRAHNET HIGHWAY DESIGNATION	0
(101) PARALLEL STRUCTURE DESIGNATION	N
(102) DIRECTION OF TRAFFIC	2
(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

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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.	2980	sq. ft.	2764	184	32	0
Areas of Left & Right curb have deteriorated and are spalling with severe section loss with exposed rebar. Efflorescent cracking, spalling & areas of delamination to soffit @ all spans. Longitudinal cracking to soffit @ all spans. Asphalt overlay has severe cracking with areas of patched potholes.							
1080 - Delamination/Spall/Patched Area		16		0	16	0	0
1090 - Exposed Rebar		32		0	0	32	0
1120 - Efflorescence/Rust Staining		68		0	68	0	0
1130 - Cracking (RC and Other)		100		0	100	0	0
510 - Wearing Surfaces		2600	sq. ft.	14	0	2586	0
3210 - Delamination/Spall/Patched Area/Pothole (Wearing Surfaces)		50		0	0	50	0
3220 - Crack (Wearing Surface)		2536		0	0	2536	0
205 - Reinforced Concrete Column	1- Ben.	6	each	0	2	4	0
All columns have cracking, some have efflorescence & rust.							
1120 - Efflorescence/Rust Staining		2		0	0	2	0
1130 - Cracking (RC and Other)		4		0	2	2	0
215 - Reinforced Concrete Abutment	1- Ben.	76	ft.	71	1	4	0
Few minor spalls to Abutment 2. Spall with rebar exposed with no section loss @ Abutment 1.							
1080 - Delamination/Spall/Patched Area		4		0	0	4	0
1090 - Exposed Rebar		1		0	1	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	90	ft.	0	0	90	0
Cracking with areas of heavy scaling with efflorescence to all caps. Spalls & cracking with 7' of rebar exposed to cap at Bent 2. All caps have severe map cracking and efflorescence with some spalling at ends.							
1080 - Delamination/Spall/Patched Area		6		0	0	6	0
1090 - Exposed Rebar		7		0	0	7	0
1120 - Efflorescence/Rust Staining		62		0	0	62	0
1130 - Cracking (RC and Other)		15		0	0	15	0
306 - Other Joint	1- Ben.	78	ft.	0	0	78	0
Joints cannot be inspected due to asphalt overlay.							
2350 - Debris Impaction		78		0	0	78	0

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Element Inspection

330 - Metal Bridge Railing	1- Ben.	200	ft.	100	100	0	0
	Corrosion to Left bridge rail. 4 concrete post on Right side has large spalls with rebar exposed @ bottom.						
1000 - Corrosion		100		0	100	0	0
515 - Steel Protective Coating		600	sq. ft.	300	100	100	100
3440 - Effectiveness (Steel Protective Coatings)		300		0	100	100	100

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Bridge Inspection Report

Pictures

PHOTO 1

Description

PHOTO 2

Description

Inspector:

Inspection Date:

Structure Number: A1533

Facility Carried: US 62 Fulton Co.

Bridge Inspection Report

Pictures

PHOTO 2

Description

PHOTO 3

Description

Inspector:

Inspection Date:

Structure Number: A1533

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Bridge Inspection Report

Sketches

Inspector:

Structure Number: A1533

Inspection Date:

Facility Carried: US 62 Fulton Co.

Bridge Inspection Report

Maintenance Needs

Date Reported: 03/06/2017

Priority: D - Routine

Work Code: Repair

Deficiency Description:

All spans

Heavy scaling &/ or spalling to all curbs.

Left curb has 10' of rebar exposed.

Heavy spalling with rebar exposed to bottom of concrete posts at Span 2.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Spalls to left curb.

Stage: Open



PHOTO 2 Description

Inspector:

Structure Number: A1533

Inspection Date:

Facility Carried: US 62 Fulton Co.

Bridge Inspection Report

Maintenance Needs

Stage: Open



PHOTO 3 Description

Stage: Assigned



PHOTO 4 Description

All spans
Heavy scaling &/ or spalling to all curbs.
Left curb has 10' of rebar exposed.
Heavy spalling with rebar exposed to bottom of concrete posts at Span 2.

Stage: Assigned



PHOTO 5 Description

All spans
Heavy scaling &/ or spalling to all curbs.
Left curb has 10' of rebar exposed.
Heavy spalling with rebar exposed to bottom of concrete posts at Span 2.

Inspector:

Structure Number: A1533

Inspection Date:

Facility Carried: US 62 Fulton Co.

Bridge Inspection Report

Maintenance Needs

Date Reported: 03/06/2017

Priority: C - Important

Work Code: Repair

Deficiency Description:

All caps have heavy cracking, scaling & spalling. Cap at Bent 2 has spalls with 7' of rebar exposed.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Bent 2 cap

Stage: Assigned



PHOTO 2 Description Typical of all caps, cracking, scaling, & spalling with some rebar exposed. (Bent 2.)

Inspector:

Structure Number: A1533

Inspection Date:

Facility Carried: US 62 Fulton Co.

Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description Typical of all caps, have cracking, scaling, spalling with some rebar exposed.
(Bent 1.)

Inspector:

Structure Number: A1533

Inspection Date:

Facility Carried: US 62 Fulton Co.

Bridge Inspection Report

Maintenance Needs

Date Reported: 03/06/2017

Priority: C - Important

Work Code: Repair

Deficiency Description:

Spalls with rebar exposed to deck below @ Span 1 & 2.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned

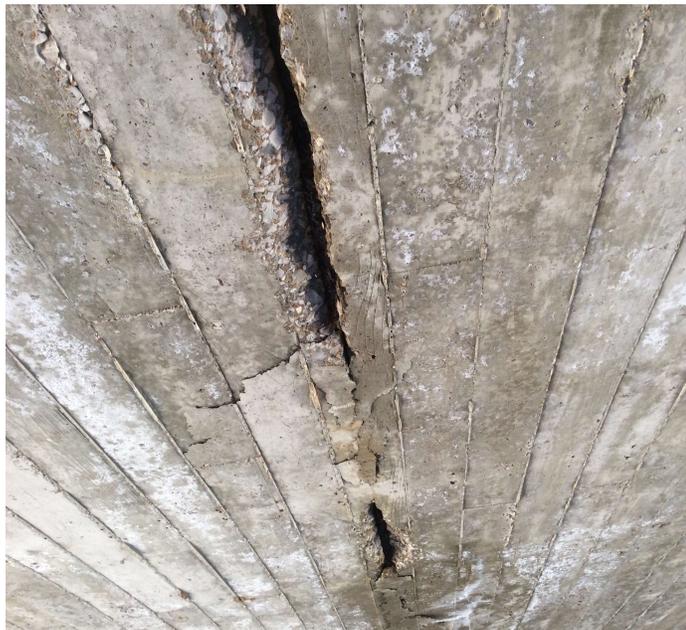


PHOTO 1 Description Span 2 soffit.

Stage: Assigned



PHOTO 2 Description Span 1 has spalls with rebar exposed to soffit.

Inspector:

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Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description Spans 2 has Spalls with rebar exposed to Soffit.

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Maintenance Needs

Date Reported: 03/06/2017

Priority: D - Routine

Work Code: Repair

Deficiency Description:

All bents have vertical cracks, scaling and some efflorescence to right columns.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Right column at Bent 1.

Stage: Assigned



PHOTO 2 Description All bents have vertical cracks, scaling and some efflorescence to Right columns.

Inspector:

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description All bents have vertical cracks, scaling and some efflorescence to right columns.
(Bent 2)