

Bridge Inspection Report

A6043

I-555-02SB-LM22.96

over

CR 266-C- DITCH 23



Inspection Date:

Inspected By:

Inspection Type(s):

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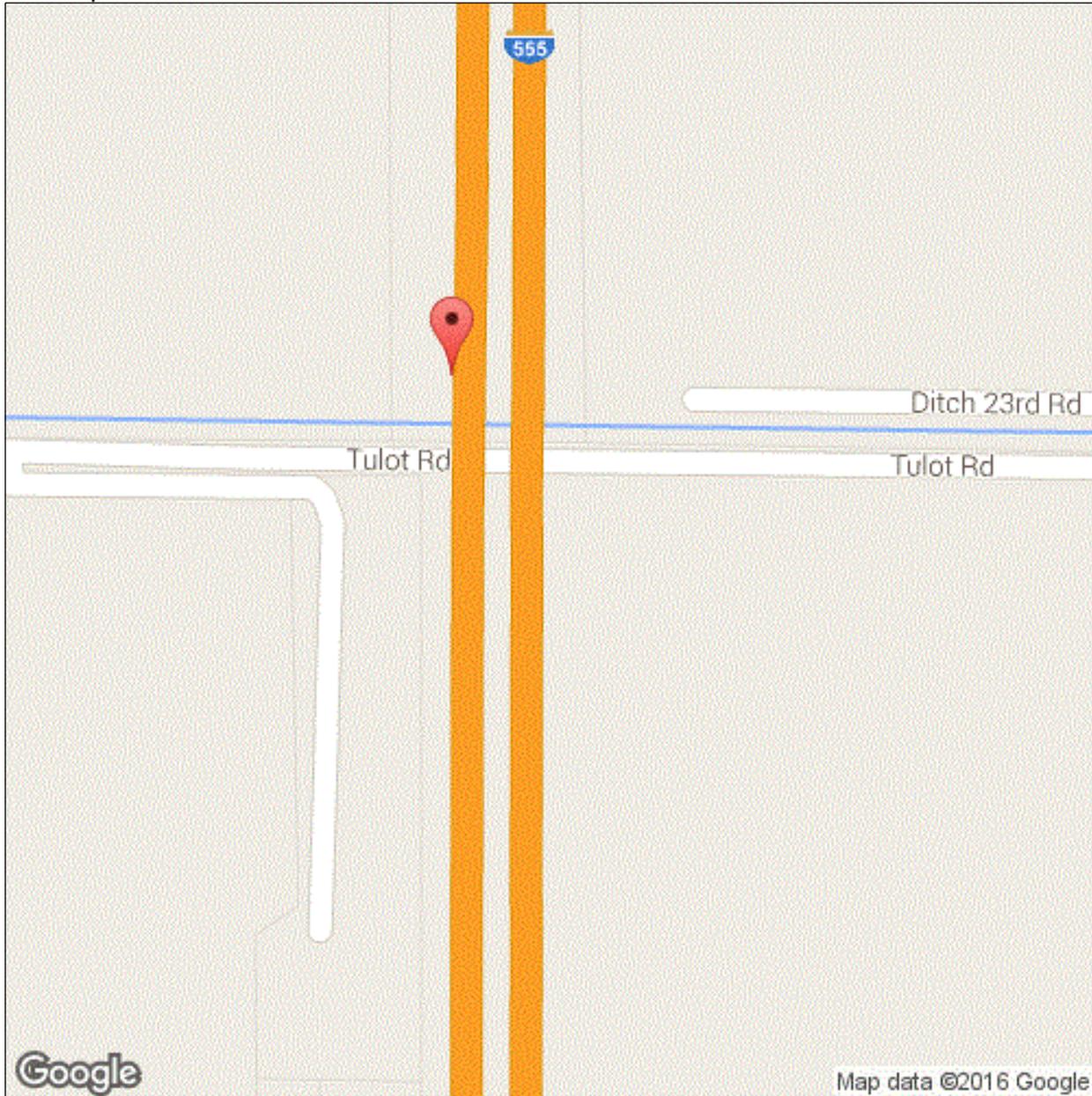
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Inspector:
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Bridge Inspection Report

Location Map



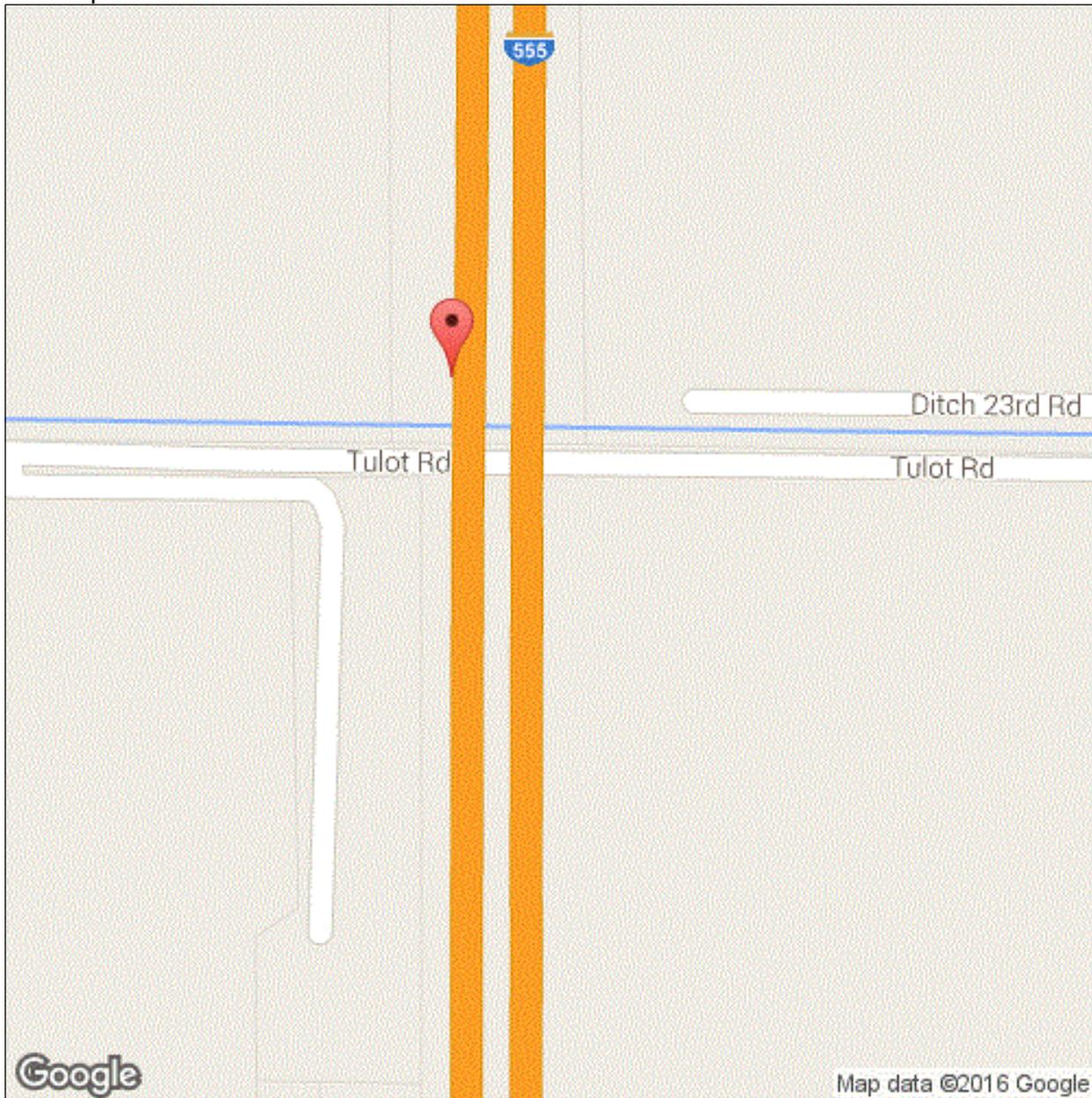
Latitude: 35.62021
Longitude: -90.49675

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Location Map



Latitude: 35.62021
Longitude: -90.49675

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Executive Summary

A6043 Inspection Notes

4-20-2016 TJM

New I-555 on Old US 63

Changes Item 47 due to the Construction of new Approach Railing.
Bent 1 Compression Seal has 16 ft. dropped down, (Both shoulders).

Bent 4 Compression Seal is ripped and torn, 30ft. is missing.

Top of Deck has a few sealable cracks.

Bottom of Deck has some cracking with light efflorescence, especially through construction joints.

Steel Girders are rusted with some pitting.

Ends of Majority of Girders over Bents 1 & 4 are rusted with initial loss of section, 3 ft long area typical.

Span 2 Girder 4 Splice 1 has one bolt loose on bottom flange.

Bearing on Bents 1 & 4 are rust covered.
Rubber Bearing Pads are beginning to crack and Split.

Bents 2 & 3 Cap has a few insignificant size and density vertical crack in face of cap.

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Executive Summary

Large void under Concrete Slope Protection, N.W. Corner of Bridge has been repaired in the past with flowable fill, no significant change in repairs 2014 Inspection.

Large Void under Concrete Approach Gutter on the South West corner, 7ft. under concrete and 3.5ft. deep, see 2014 photo.

Brush and Small Trees growing in ditch under **Span 2** and between A&B Bridges

Minimum clearances verified 2016 inspection.

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National Bridge Inventory

IDENTIFICATION				INSPECTIONS			
(1) STATE CODE	056 - Arkansas			(90) INSPECTION DATE	04/20/2016		
(8) STRUCTURE NUMBER	A6043			(91) DESIGNATED INSPECTION FREQUENCY	24		
(5) INV. ROUTE (ON/UNDER)	1	1	1	(92) CRITICAL FEATURE INSPECTION			(93) CFI DATE
(2) HIGHWAY AGENCY	10	(3) COUNTY CODE	111	A. FRACTURE CRITICAL DETAIL	N		
(4) PLACE CODE	00000			B. UNDERWATER INSPECTION	N		
(6) FEATURES INTERSECTED	CR 266-C- DITCH 23			C. OTHER SPECIAL	N		
(7) FACILITY CARRIED	I-555-02SB-LM22.96			CONDITION			
(9) LOCATION	E SH 463 &CORD 266			(58) DECK	7		
(11) MILEPOINT	22.96	(12) BASE HIGHWAY NETWORK	1	(59) SUPERSTRUCTURE	7	(60) SUBSTRUCTURE	8
(13A) LRS INVENTORY ROUTE	0000063080	(13B) SUBROUTE NUMBER	00	(61) CHANNEL & CHANNEL PROTECTION	8	(62) CULVERT	N
(16) LATITUDE	35.62021	(17) LONGITUDE	-90.49675	LOAD RATING AND POSTING			
(98A) BORDER BRIDGE CODE				(31) DESIGN LOAD	5		
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT			(63) METHOD USED TO DETERMINE OPERATING RATING	1		
STRUCTURE TYPE AND MATERIAL				(64) OPERATING RATING	60.0		
(43) STRUCTURE TYPE, MAIN				(65) METHOD USED TO DETERMINE INVENTORY RATING	1		
A) KIND OF MATERIAL/DESIGN:	4 - Steel continuous			(66) INVENTORY RATING	36.0		
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	7		
(45) NUMBER OF SPANS IN MAIN	3	(46) NUMBER OF APPROACH	0	(68) DECK GEOMETRY	7		
(107) DECK STRUCTURE TYPE	1	(108A) WEARING SURFACE	1	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	3		
(108B) DECK MEMBRANE	0	(108C) DECK PROTECTION	0	(71) WATERWAY ADEQUACY	8		
AGE OF SERVICE				(72) APPROACH ROADWAY ALIGNMENT	8		
(27) YEAR BUILT	1984	(106) YEAR RECONSTRUCTED	0000	(36) TRAFFIC SAFETY FEATURE			
(42) TYPE OF SERVICE	ON 1	UNDER	6	36A) BRIDGE RAILINGS:	1		
(28) LANES	ON 02	UNDER	02	36B) TRANSITIONS:	1		
(29) AVERAGE DAILY TRAFFIC	12907	(19) BYPASS DETOUR LENGTH	1	36C) APPROACH GUARDRAIL:	1		
(30) YEAR OF AVERAGE DAILY TRAFFIC	2013			36D) APPROACH GUARDRAIL ENDS:	1		
(109) AVERAGE DAILY TRUCK TRAFFIC	1			(113) SCOUR CRITICAL BRIDGES	5		
GEOMETRIC DATA				SUFFICIENCY RATING	2	STATUS	92.7
(48) LENGTH OF MAX SPAN (ft.)	91	(49) STRUCTURE LENGTH (ft.)	195	CLASSIFICATION			
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0	RIGHT	0	(112) NBIS BRIDGE LENGTH	Y		
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	40.0			(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1		
(52) DECK WIDTH, OUT-TO-OUT (ft.)	42.8			(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	01		
(32) APPROACH ROADWAY WIDTH (ft.)	40.0			(100) STRAHNET HIGHWAY DESIGNATION	1		
(33) BRIDGE MEDIAN	0	(34) SKEW (DEG.)	0	(101) PARALLEL STRUCTURE DESIGNATION	R		
(35) STRUCTURE FLARED	0	(10) INV RTE, MIN VERT CLEAR (ft.)	99.99	(102) DIRECTION OF TRAFFIC	1		
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	40.6			(103) TEMP STRUCTURE			
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99			(105) FEDERAL LANDS HIGHWAYS	0		
(54) VERTICAL UNDER CLEARANCE (ft.)	H		15.25	(110) DESIGNATED NATIONAL NETWORK	1		
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H		1.7	(20) TOLL	3		
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0			(21) MAINTENANCE RESPONSIBILITY	01		
PROPOSED IMPROVEMENTS				(22) OWNER	01		
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY			(37) HISTORICAL	5		
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0			NAVIGATION DATA			
(94) BRIDGE IMPROVEMENT COST (\$)	0			(38) NAVIGATION CONTROL	0		
(95) ROADWAY IMPROVEMENT COST (\$)	0			(111) PIER OR ABUTMENT PROTECTION	5		
(96) TOTAL PROJECT COST	0			(39) NAV VERT CLEARANCE (ft.)	0		
(97) YEAR OF IMPROVEMENT COST ESTIMATE				(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0		
(114) FUTURE ADT	6830	(115) YEAR OF FUTURE ADT	2028	(40) NAV HORIZONTAL CLEARANCE (ft.)	0		

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National Bridge Inventory

UNDER RECORD 2

IDENTIFICATION

(1) STATE CODE 056 - Arkansas (7) FACILITY CARRIED I-555-08SB-LM22.96
(3) COUNTY CODE 111 (8) STRUCTURE NUMBER A6043
(4) PLACE CODE 00000 (9) LOCATION E SH 463 &CORD 266
(5) INV. ROUTE (ON/UNDER) 2 4 1 00266 0 (11) MILEPOINT 0.300 (12) BASE HIGHWAY NETWORK 0
(6) FEATURES INTERSECTED CR 266-C- DITCH 23 (13A) LRS INVENTORY ROUTE 0000000000 (13B) SUBROUTE NUMBER 00
(16) LATITUDE 35.62075 (17) LONGITUDE -90.4968333333333

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE, MAIN A) KIND OF MATERIAL/DESIGN: 4 - Steel continuous
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder

AGE OF SERVICE

(19) BYPASS DETOUR LENGTH 1 (30) YEAR OF AVERAGE DAILY TRAFFIC 1986
(27) YEAR BUILT 1984 (42) TYPE OF SERVICE ON 1 UNDER 6
(28) LANES ON 02 UNDER 02 (109) AVERAGE DAILY TRUCK TRAFFIC 1
(29) AVERAGE DAILY TRAFFIC 10

GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE 15.3 (48) LENGTH OF MAXIMUM SPAN 91 (49) STRUCTURE LENGTH 195
(47) TOTAL HORIZONTAL CLEARANCE 79.4

CLASSIFICATION

(20) TOLL 3 (102) DIRECTION OF TRAFFIC 2
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE 09 (103) TEMP STRUCTURE
(100) STRAHNET HIGHWAY DESIGNATION 0 (104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE 0
(101) PARALLEL STRUCTURE DESIGNATION R (110) DESIGNATED NATIONAL NETWORK 0

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Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	8389	sq. ft.	8149	240	0	0
1120 - Efflorescence/Rust Staining		240			240		
107 - Steel Open Girder/Beam	1- Ben.	1158	ft.	1122	36	0	0
1000 - Corrosion		36			36		
515 - Steel Protective Coating		11627	sq. ft.	11307	320	0	0
3440 - Effectiveness (Steel Protective Coatings)		320			320		
205 - Reinforced Concrete Column	1- Ben.	4	each	4			
215 - Reinforced Concrete Abutment	1- Ben.	102	ft.	102			
234 - Reinforced Concrete Pier Cap	1- Ben.	80	ft.	80			
302 - Compression Joint Seal	1- Ben.	80	ft.	80			
310 - Elastomeric Bearing	1- Ben.	24	each	24			
331 - Reinforced Concrete Bridge Railing	1- Ben.	390	ft.	390			

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Pictures

Inspector:

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Sketches

Inspector:

Structure Number: A6043

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Bridge Inspection Report

Maintenance Needs

Date Reported: 5/16/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Large Void under Concrete Approach Gutter on the South West corner, 7ft. under concrete and 3.5ft. deep.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Inspector:
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Maintenance Needs

Date Reported: 5/16/2012 12:00:00 AM
Priority: G - General/ Preventive maintenance
Work Code:

Deficiency Description:
Ditch Span 2
Brush and Small Trees growing in ditch under Span 2 and between A&B Bridges
Work Description:

Date Repairs Completed:
Maintenance Comments:

Date Reported: 5/16/2012 12:00:00 AM
Priority: C - Important
Work Code:

Deficiency Description:
Compression Seals
Bent 1 Compression Seal has 16 ft. dropped down, (Both shoulders).
Bent 4 Compression Seal is ripped and torn, 30 ft. is missing.
Work Description:

Date Repairs Completed:
Maintenance Comments:

Date Reported: 5/16/2012 12:00:00 AM
Priority: D - Routine
Work Code:

Deficiency Description:
Girders
Girders are rusted with some pitting.
Ends of majority of girders over Bent 1 and 4 rusted with initial loss of section, 3 ft long area typical.
Work Description:

Date Repairs Completed:
Maintenance Comments:

Inspector:
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Maintenance Needs

Date Reported: 5/16/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Span 2 Girder 4 Splice 1
has one bolt loose on bottom flange.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 5/16/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Bearing Rubber Pads
are beginning to crack and Split.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 5/22/2014 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Top of Deck has a few sealable cracks.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Maintenance Needs

Date Reported: 5/22/2014 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Bottom of Deck has some cracking with light efflorescence, especially through construction joints.

Work Description:

Date Repairs Completed:

Maintenance Comments:
