

Bridge Inspection Report

A6522
I-40WB/Se51/240.02
over
Dawson-RR/Z-F/L-1.88



Inspection Date:

Inspected By:

Inspection Type(s):

TABLE OF CONTENTS

	PAGE NUMBER
LOCATION MAP	3
NATIONAL BRIDGE INVENTORY	7
ELEMENTS	8
PICTURES	9
SKETCHES	11

Inspector:

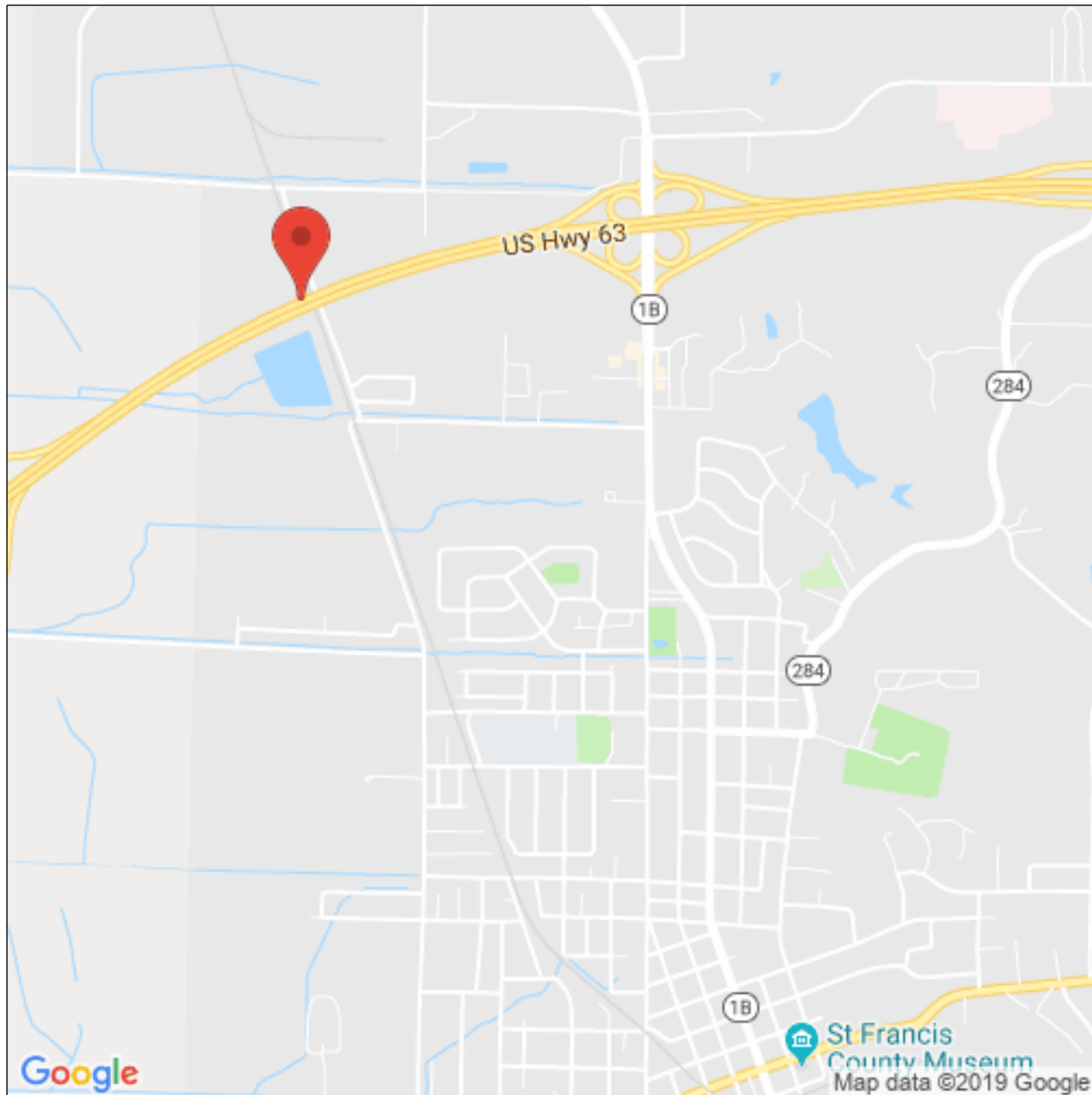
Structure Number: A6522

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Facility Carried: I-40WB/Se51/240.02

Bridge Inspection Report

Location Map



Latitude: 35.03390

Longitude: -90.80340

Inspector:

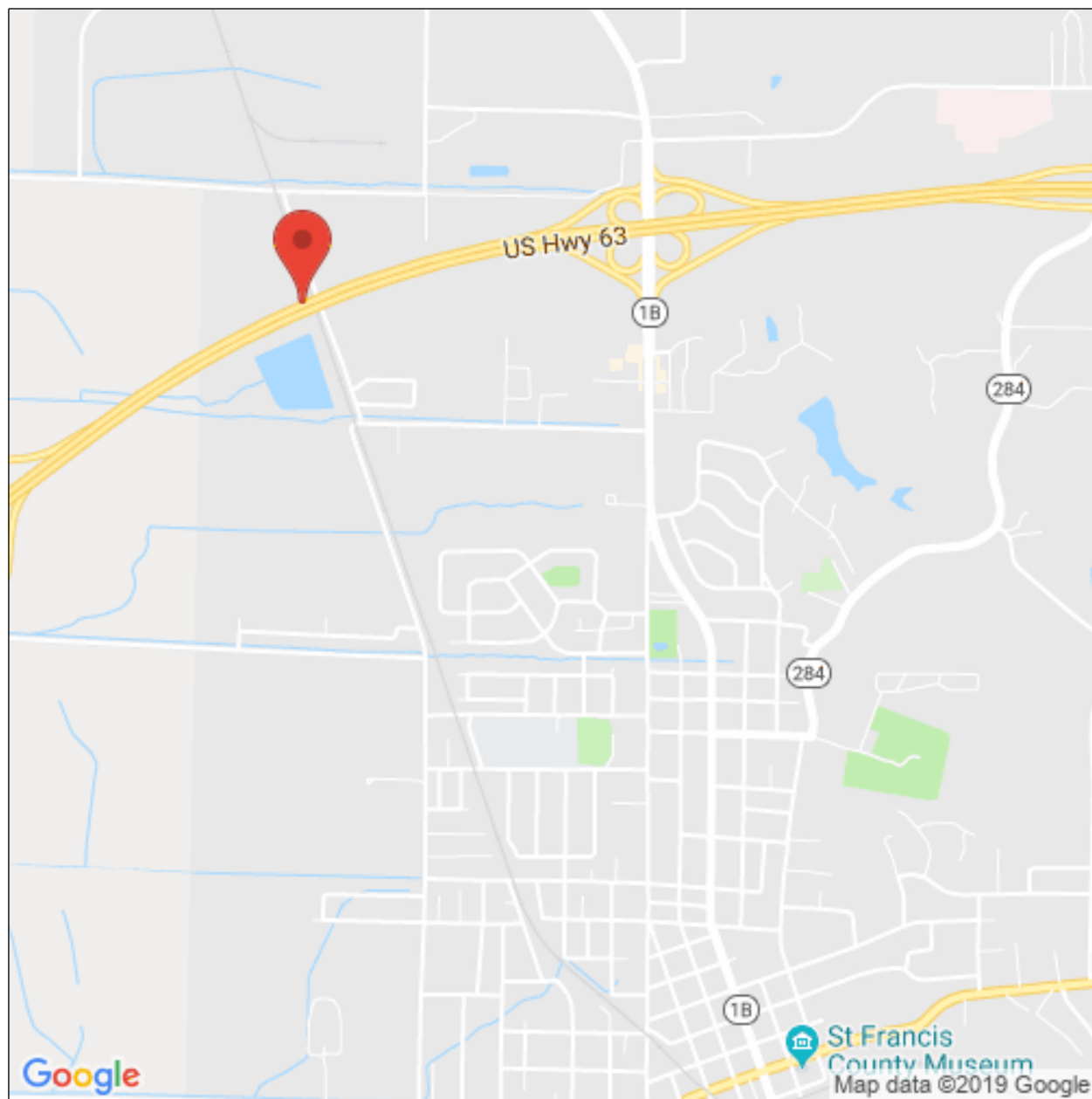
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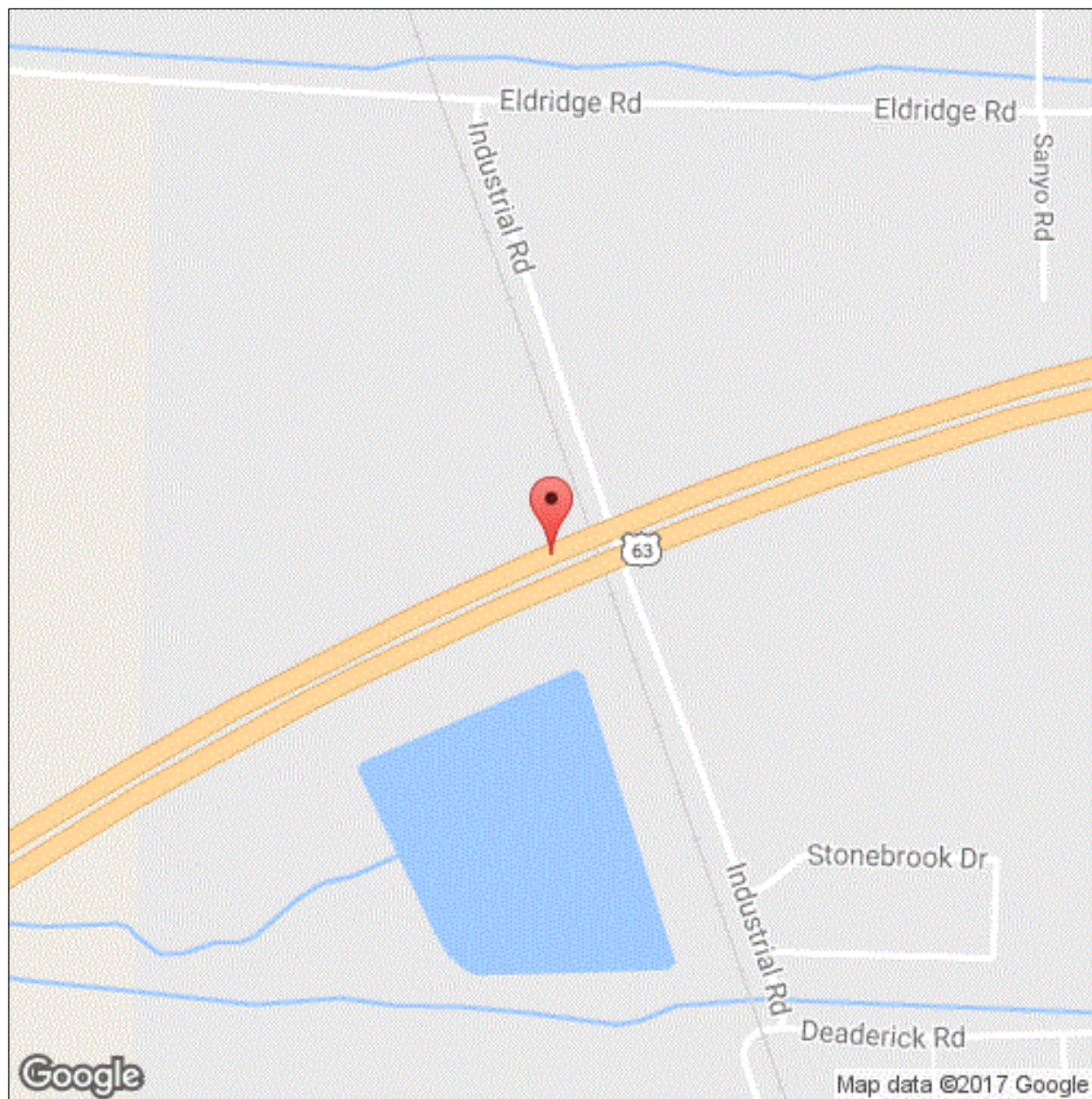
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Location Map



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Bridge Inspection Report

Executive Summary

Inspector:

Structure Number: A6522

Inspection Date:

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	02/26/2019
(8) STRUCTURE NUMBER	A6522	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 1 1 40 4	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	01 (3) COUNTY CODE 123	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	23980	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Dawson-RR/Z-F/L-1.88	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I-40WB/Se51/240.02		
(9) LOCATION	0.72 Miles West Jct Sh 1	CONDITION	
(11) MILEPOINT 240.020	(12) BASE HIGHWAY NETWORK 1	(58) DECK	7
(13A) LRS INVENTORY ROUTE 0000040510	(13B) SUBROUTE NUMBER 00	(59) SUPERSTRUCTURE 7	(60) SUBSTRUCTURE 8
(16) LATITUDE 35.03390	(17) LONGITUDE -90.80340	(61) CHANNEL & CHANNEL PROTECTION	N (62) CULVERT N
(98A) BORDER BRIDGE CODE		LOAD RATING AND POSTING	
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT	(31) DESIGN LOAD	6
		(63) METHOD USED TO DETERMINE OPERATING RATING	1
		(64) OPERATING RATING	60.0
		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
		(66) INVENTORY RATING	36.0
		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
STRUCTURE TYPE AND MATERIAL		APPRAISAL	
(43) STRUCTURE TYPE, MAIN		(67) STRUCTURAL EVALUATION	7
A) KIND OF MATERIAL/DESIGN:	4 - Steel continuous	(68) DECK GEOMETRY	7
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	4
(44) STRUCTURE TYPE, APPROACH SPANS		(71) WATERWAY ADEQUACY	N
A) KIND OF MATERIAL/DESIGN:	0 - Other	(72) APPROACH ROADWAY ALIGNMENT	8
B) TYPE OF DESIGN/CONSTR:	00 - Other	(36) TRAFFIC SAFETY FEATURE	
(45) NUMBER OF SPANS IN MAIN 4	(46) NUMBER OF APPROACH 0	36A) BRIDGE RAILINGS:	1
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 1	36B) TRANSITIONS:	1
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 1	36C) APPROACH GUARDRAIL:	1
		36D) APPROACH GUARDRAIL ENDS:	1
AGE OF SERVICE		(113) SCOUR CRITICAL BRIDGES	N
(27) YEAR BUILT 1996	(106) YEAR RECONSTRUCTED 0000	SUFFICIENCY RATING	86.6 STATUS 0
(42) TYPE OF SERVICE ON 1	UNDER 4	CLASSIFICATION	
(28) LANES ON 02	UNDER 02	(112) NBIS BRIDGE LENGTH	Y
(29) AVERAGE DAILY TRAFFIC 38983	(19) BYPASS DETOUR LENGTH 3	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	11
(109) AVERAGE DAILY TRUCK TRAFFIC 40		(100) STRAHNET HIGHWAY DESIGNATION	1
		(101) PARALLEL STRUCTURE DESIGNATION	L
GEOMETRIC DATA		(102) DIRECTION OF TRAFFIC	1
(48) LENGTH OF MAX SPAN (ft.) 90	(49) STRUCTURE LENGTH (ft.) 287	(103) TEMP STRUCTURE	
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0	RIGHT 0	(105) FEDERAL LANDS HIGHWAYS	0
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	40.0	(110) DESIGNATED NATIONAL NETWORK	1
(52) DECK WIDTH, OUT-TO-OUT (ft.)	43.1	(20) TOLL	3
(32) APPROACH ROADWAY WIDTH (ft.)	40.0	(21) MAINTENANCE RESPONSIBILITY	01
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 0	(37) HISTORICAL	5
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	NAVIGATION DATA	
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	41.3	(38) NAVIGATION CONTROL	N
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	(111) PIER OR ABUTMENT PROTECTION	1
(54) VERTICAL UNDER CLEARANCE (ft.)	H 23.6	(39) NAV VERT CLEARANCE (ft.)	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H 6.4	(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0.0	(40) NAV HORIZONTAL CLEARANCE (ft.)	0
PROPOSED IMPROVEMENTS			
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY		
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0		
(94) BRIDGE IMPROVEMENT COST (\$)	0		
(95) ROADWAY IMPROVEMENT COST (\$)	0		
(96) TOTAL PROJECT COST	0		
(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(114) FUTURE ADT 22628	(115) YEAR OF FUTURE ADT 2027		

Inspector:

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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
12 - Reinforced Concrete Deck	1- Ben.	12207	sq. ft.	9670	2537	0	0
	Deck has open and sealed longitudinal and transverse cracks each span majority are sealed various spaced. Soffit overhangs have transverse cracks space two to four feet apart with light efflorescence.						
1120 - Efflorescence/Rust Staining		287		0	287	0	0
1130 - Cracking (RC and Other)		2250		0	2250	0	0
107 - Steel Open Girder/Beam	1- Ben.	1425	ft.	1425	0	0	0
	Girders have a grainy feel to surface.						
515 - Steel Protective Coating		11952	sq. ft.	0	11952	0	0
3430 - Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)		11952		0	11952	0	0
205 - Reinforced Concrete Column	1- Ben.	6	each	6	0	0	0
215 - Reinforced Concrete Abutment	1- Ben.	124	ft.	93	31	0	0
	Abutment back walls have vertical cracks spaced two to four feet apart some with light efflorescence. Abutment #1 cap has dirt and debris on it.						
1120 - Efflorescence/Rust Staining		31		0	31	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	125	ft.	125	0	0	0
301 - Pourable Joint Seal	1- Ben.	86	ft.	22	43	0	21
	Abutment #1 road iron has been removed from back wall side of joint. Abutment #1 joint material has six small torn areas. Abutment #2 joint material has 50% torn.						
2310 - Leakage		21		0	0	0	21
2360 - Adjacent Deck or Header		43		0	43	0	0
310 - Elastomeric Bearing	1- Ben.	25	each	25	0	0	0
321 - Reinforced Concrete Approach Slab	1- Ben.	1752	sq. ft.	1490	0	262	0
	Approach slabs have transverse and longitudinal cracks.						
1130 - Cracking (RC and Other)		262		0	0	262	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	570	ft.	426	143	1	0
	Bridge rails have vertical and longitudinal cracks spaced two to four feet apart with light efflorescence of outside. Right bridge rail out side at bent #3 has a one foot spall with no exposed rebar.						
1080 - Delamination/Spall/Patched Area		1		0	0	1	0
1120 - Efflorescence/Rust Staining		143		0	143	0	0

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Bridge Inspection Report

Pictures

PHOTO 1

Description

PHOTO 1

Description

Inspector:

Inspection Date:

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Bridge Inspection Report

Pictures

PHOTO 1

Description

PHOTO 2

Description

Inspector:

Inspection Date:

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Facility Carried: I-40WB/Se51/240.02

Bridge Inspection Report

Sketches

Inspector:

Structure Number: A6522

Inspection Date:

Facility Carried: I-40WB/Se51/240.02

Bridge Inspection Report

Maintenance Needs

Date Reported: 2/12/2015 12:00:00 AM

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Deck has open and sealed longitudinal and transverse cracks each span majority are sealed various spaced.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Typical sealed transverse deck cracks

Stage: Monitor



PHOTO 2 Description Typical sealed longitudinal deck cracks (3 sealed 3 unsealed) full length

Inspector:

Inspection Date:

Structure Number: A6522

Facility Carried: I-40WB/Se51/240.02

Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 3 Description Typical unsealed transverse deck crack spaced 4'+-

Stage: Monitor



PHOTO 4 Description Typical deck.

Inspector:

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Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 2/12/2015 12:00:00 AM

Priority: C - Important

Work Code: N/A

Deficiency Description:

Abutment #1 slope right side has a voided area under slope pavement one and a half feet deep.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Abutment #1 slope pavement right side

Stage: Monitor



PHOTO 2 Description Abutment #1 slope right side has a voided area under slope pavement.

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 02/26/2019

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Abutment #1 cap has dirt and debris on it.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Abutment #1 cap has dirt and debris on it.

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 02/26/2019

Priority: C - Important

Work Code: N/A

Deficiency Description:

Abutment #1 joint material has six small torn areas.

Abutment #2 joint material has 50% torn.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Abutment #2 joint material has 50% torn.

Stage: Open



PHOTO 2 Description Abutment #1 joint material has six small torn areas.

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Maintenance Needs

Date Reported: 02/26/2019

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Right bridge rail out side at bent #3 has a one foot spall with no exposed rebar.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Spall at bent #3 right side outside of wall.