

Bridge Inspection Report

B6881
I-540 NB-Crawford
over
Union Pacific Rail Road



Inspection Date:

Inspected By:

Inspection Type(s):

TABLE OF CONTENTS

	PAGE NUMBER
LOCATION MAP	3
NATIONAL BRIDGE INVENTORY	7
ELEMENTS	8
PICTURES	10
SKETCHES	11

Inspector:

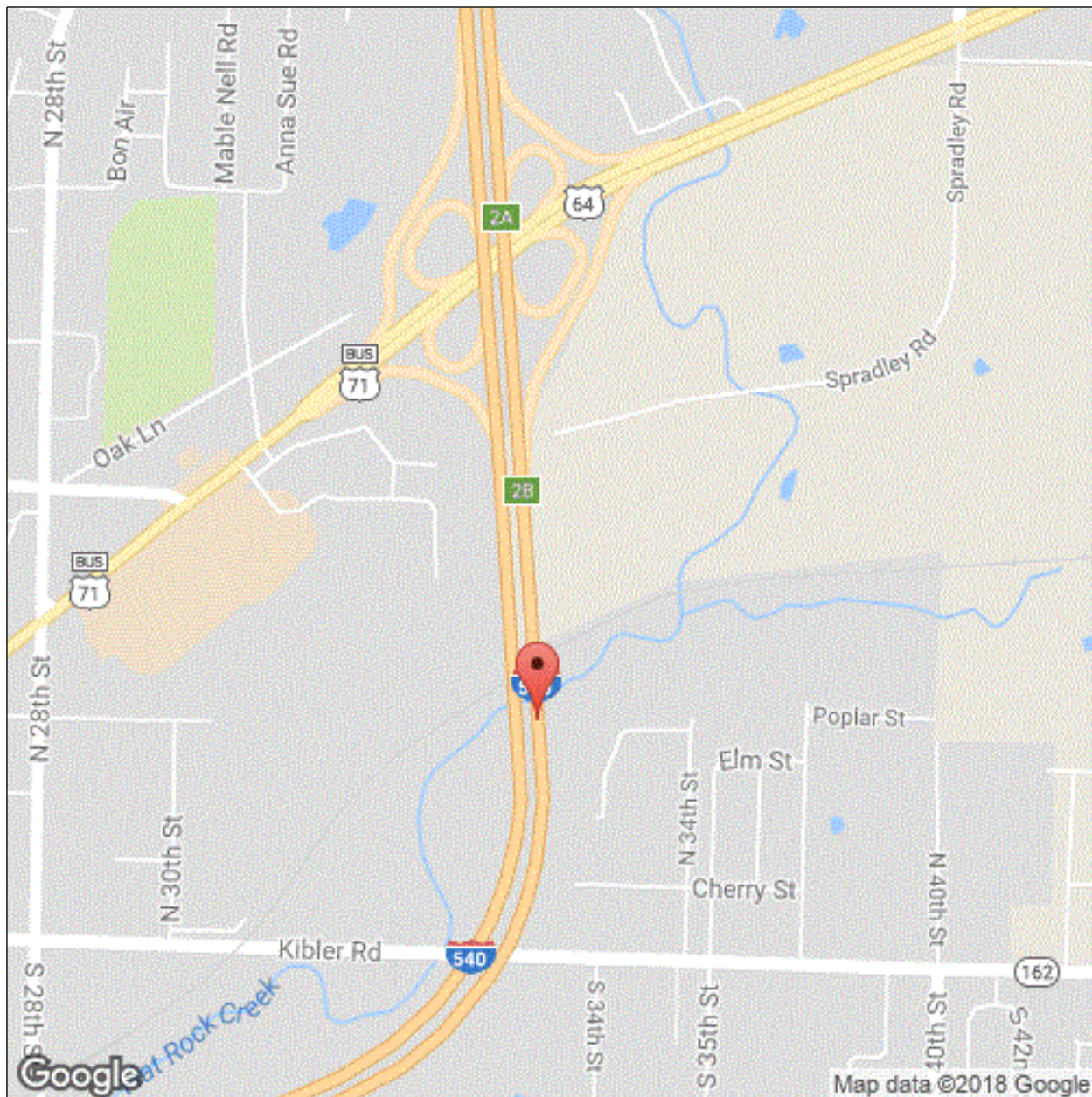
Structure Number: B6881

Inspection Date:

Facility Carried: I-540 NB-Crawford

Bridge Inspection Report

Location Map



Latitude: 35.439930

Longitude: -94.319298

Inspector:

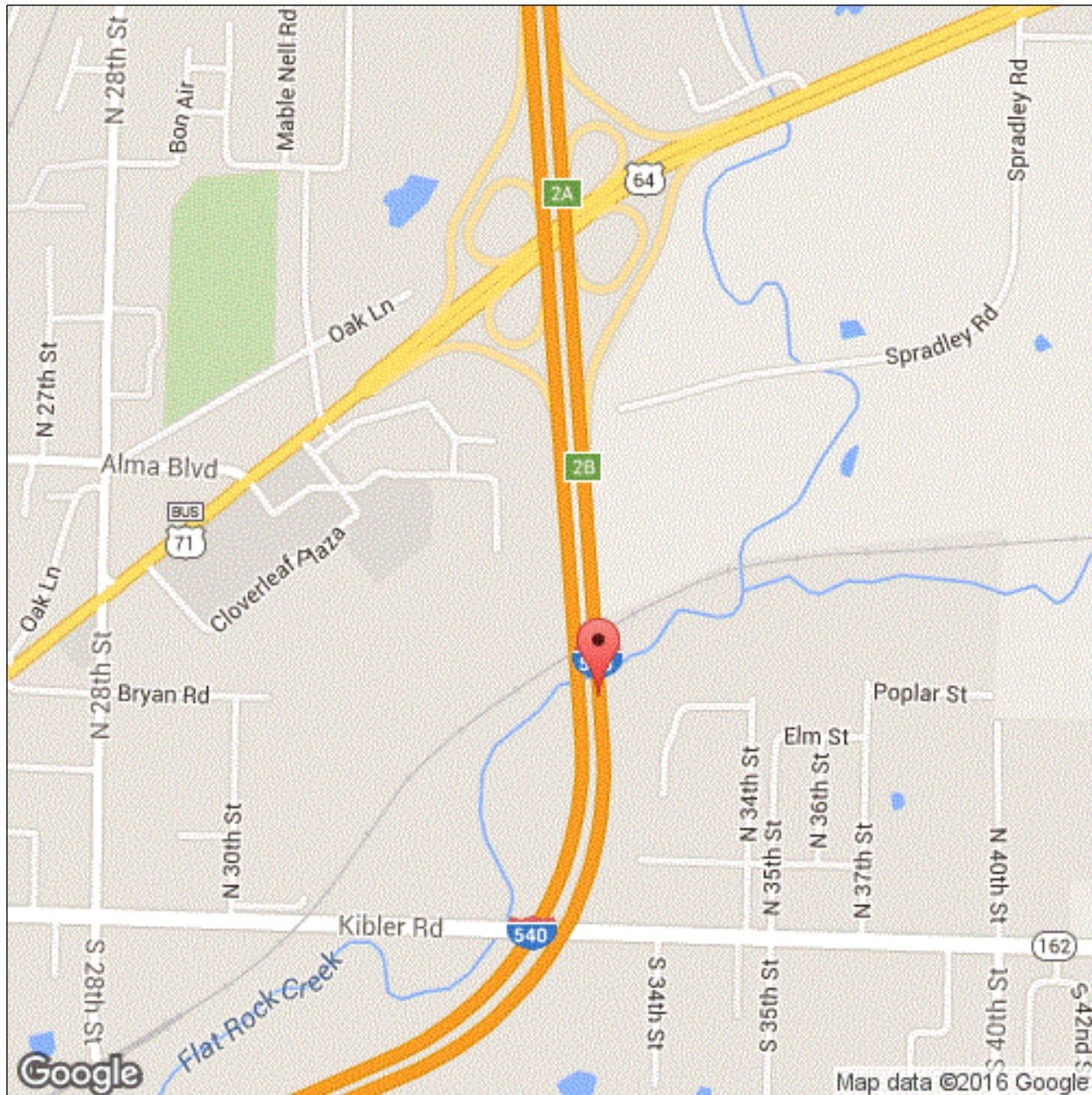
Structure Number: B6881

Inspection Date:

Facility Carried: I-540 NB-Crawford

Bridge Inspection Report

Location Map



Latitude: 35.439930

Longitude: -94.319298

Inspector:

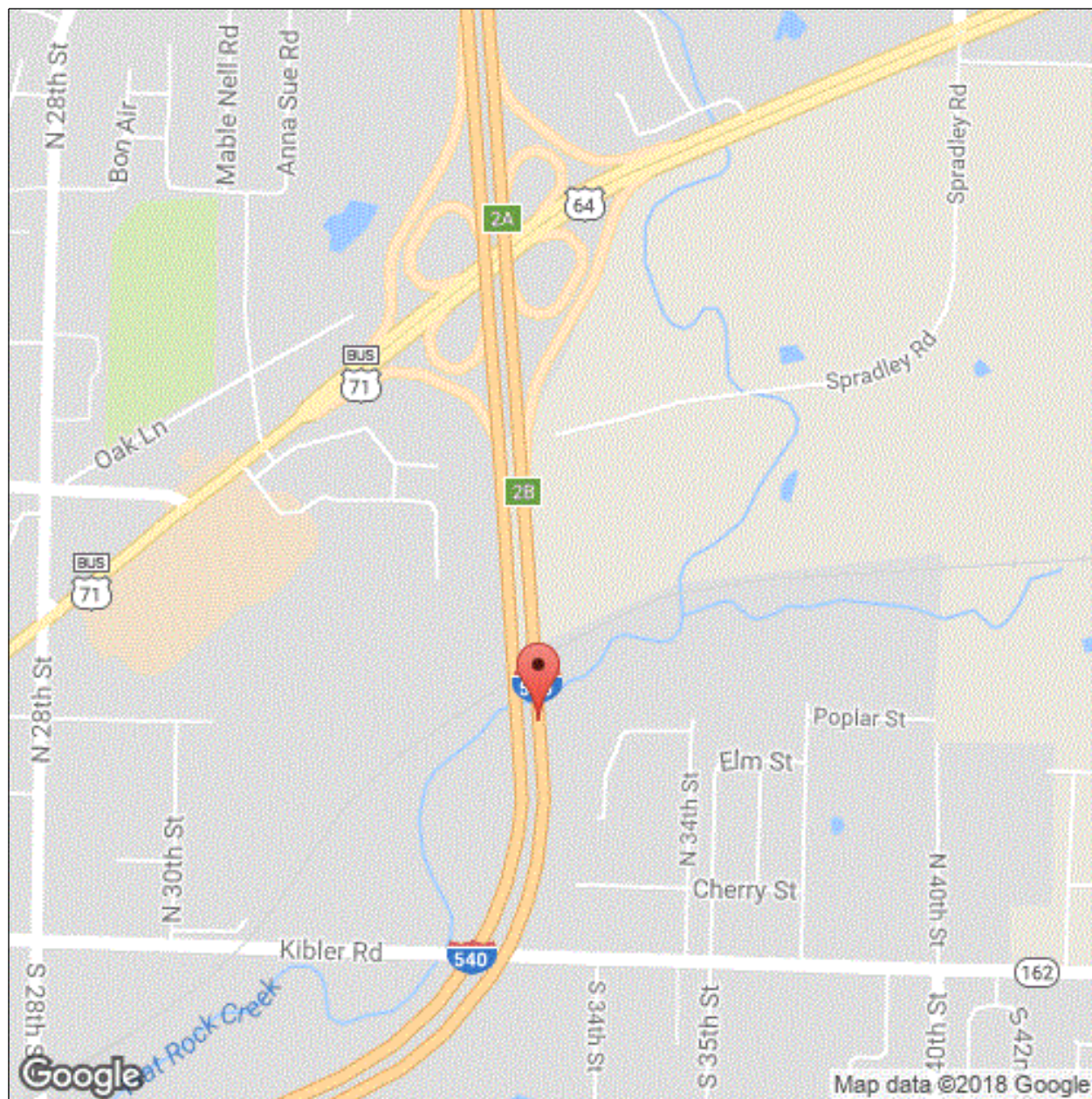
Structure Number: B6881

Inspection Date:

Facility Carried: I-540 NB-Crawford

Bridge Inspection Report

Location Map



Latitude: 35.439930

Longitude: -94.319298

Inspector:

Structure Number: B6881

Inspection Date:

Facility Carried: I-540 NB-Crawford

Bridge Inspection Report

Executive Summary

03/06/2018 - EJW - Routine Inspection conducted on this date. Underclearances verified on this date, no change since the last inspection.

07/29/2015 - Updated Item # 17 per email from Stewart Linz Dated 07/27/2015

Inspector:

Structure Number: B6881

Inspection Date:

Facility Carried: I-540 NB-Crawford

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	03/06/2018
(8) STRUCTURE NUMBER	B6881	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 1 1 540 1	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	04 (3) COUNTY CODE 033	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	69380	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Union Pacific Rail Road	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I-540 NB-Crawford		
(9) LOCATION	0.98 Mi S0. of I-40		
(11) MILEPOINT 13.700	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000540020 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.439930	(17) LONGITUDE -94.319298		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	8
A) KIND OF MATERIAL/DESIGN: 4 - Steel continuous		(59) SUPERSTRUCTURE	9
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(60) SUBSTRUCTURE	9
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	8
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN 5	(46) NUMBER OF APPROACH 0		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 1		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 1		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 2014	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	6
(42) TYPE OF SERVICE ON 1 UNDER 7		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 00		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 45000	(19) BYPASS DETOUR LENGTH 1	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2012		(66) INVENTORY RATING	36.0
(109) AVERAGE DAILY TRUCK TRAFFIC 12		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 100	(49) STRUCTURE LENGTH (ft.) 484.8	(67) STRUCTURAL EVALUATION	9
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	7
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 40.0		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	9
(52) DECK WIDTH, OUT-TO-OUT (ft.) 43.1		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 38.4		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 30	(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.) 40.0		36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.90		36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.) R 24.08		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) R 40.7		(113) SCOUR CRITICAL BRIDGES	5
(56) MIN LATERAL UNDER CLEARANCE (ft.) 000		SUFFICIENCY RATING	0
		STATUS	93.8
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(94) BRIDGE IMPROVEMENT COST (\$)		(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	01
(95) ROADWAY IMPROVEMENT COST (\$)		(100) STRAHNET HIGHWAY DESIGNATION	1
(96) TOTAL PROJECT COST		(101) PARALLEL STRUCTURE DESIGNATION	R
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	1
(114) FUTURE ADT 23790	(115) YEAR OF FUTURE ADT 2032	(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.)	000
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
		(40) NAV HORIZONTAL CLEARANCE (ft.)	0000

Inspector:

Structure Number: B6881

Inspection Date:

Facility Carried: I-540 NB-Crawford

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.	20887	sq. ft.	19456	1431	0	0
	-Transverse cracking with light efflorescence in the overhangs that correspond with the joints in the bridge rails typical. -Dirt and sand accumulation in the gutters. -Light transverse and longitudinal cracking on the driving surface at this inspection.						
1120 - Efflorescence/Rust Staining		209			209		
1130 - Cracking (RC and Other)		1222			1222		
107 - Steel Open Girder/Beam	1- Ben.	2934	ft.	2934			
	-A588 weathering steel. Steel has a light orange film with no visible cracking. -No apparent or noteworthy deficiencies at this inspection.						
515 - Steel Protective Coating		31970	sq. ft.	31970			
205 - Reinforced Concrete Column	1- Ben.	12	each	12			
	-No apparent noteworthy deficiencies at this inspection.						
210 - Reinforced Concrete Pier Wall	1- Ben.	90	ft.	90			
	-No apparent problems at this inspection.						
215 - Reinforced Concrete Abutment	1- Ben.	100	ft.	63	29	8	0
	-A few random hairline vertical cracks in the backwall. -Transverse cracks visible on the top of the backwalls at both abutments. -Bent # 1 has a vertical crack with light efflorescence behind beam # 3 in the backwall.						
1120 - Efflorescence/Rust Staining		1			1		
1130 - Cracking (RC and Other)		36			28	8	
234 - Reinforced Concrete Pier Cap	1- Ben.	190	ft.	190			
	-Light staining on the cap face from the construction process before deck placement. -No apparent or noteworthy deficiencies at this inspection.						
300 - Strip Seal Expansion Joint	1- Ben.	93	ft.	0	93	0	0
	-Strip seals are partially filled with sand at this inspection. -The joint anchorage is sound. -No apparent or noteworthy deficiencies at this inspection.						
310 - Elastomeric Bearing	1- Ben.	36	each	36			
	No apparent noteworthy deficiencies at this inspection.						
321 - Reinforced Concrete Approach Slab	1- Ben.	1776	sq. ft.	1717	35	24	0
	-The approach slab grade appears to be good with no apparent significant impacts to the bridge deck. -No signs of settlement at this inspection. -The approach slabs has transverse cracks in the Right lane.						
1130 - Cracking (RC and Other)		59			35	24	

Inspector:

Structure Number: B6881

Inspection Date:

Facility Carried: I-540 NB-Crawford

Bridge Inspection Report

Element Inspection

331 - Reinforced Concrete Bridge Railing	1- Ben.	978	ft.	907	71	0	0
	-New Jersey parapets with hairline vertical cracking at the bottom of the expansion joints, at the ends of the drain openings and in random locations throughout. -The chain link anchor bolts are tight at this inspection.						
1130 - Cracking (RC and Other)		71			71		

Inspector:

Inspection Date:

Structure Number: B6881

Facility Carried: I-540 NB-Crawford

Bridge Inspection Report

Pictures

Inspector:

Inspection Date:

Structure Number: B6881

Facility Carried: I-540 NB-Crawford

Bridge Inspection Report

Sketches

Inspector:

Inspection Date:

Structure Number: B6881

Facility Carried: I-540 NB-Crawford

Bridge Inspection Report

Maintenance Needs

Date Reported: 03/06/2018

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Deck

The deck gutters have sand and debris accumulation.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Gutters with debris accumulation.