

Bridge Inspection Report

B6878
I-540 NB Lanes
over
Grand Avenue-Seb. Co.



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

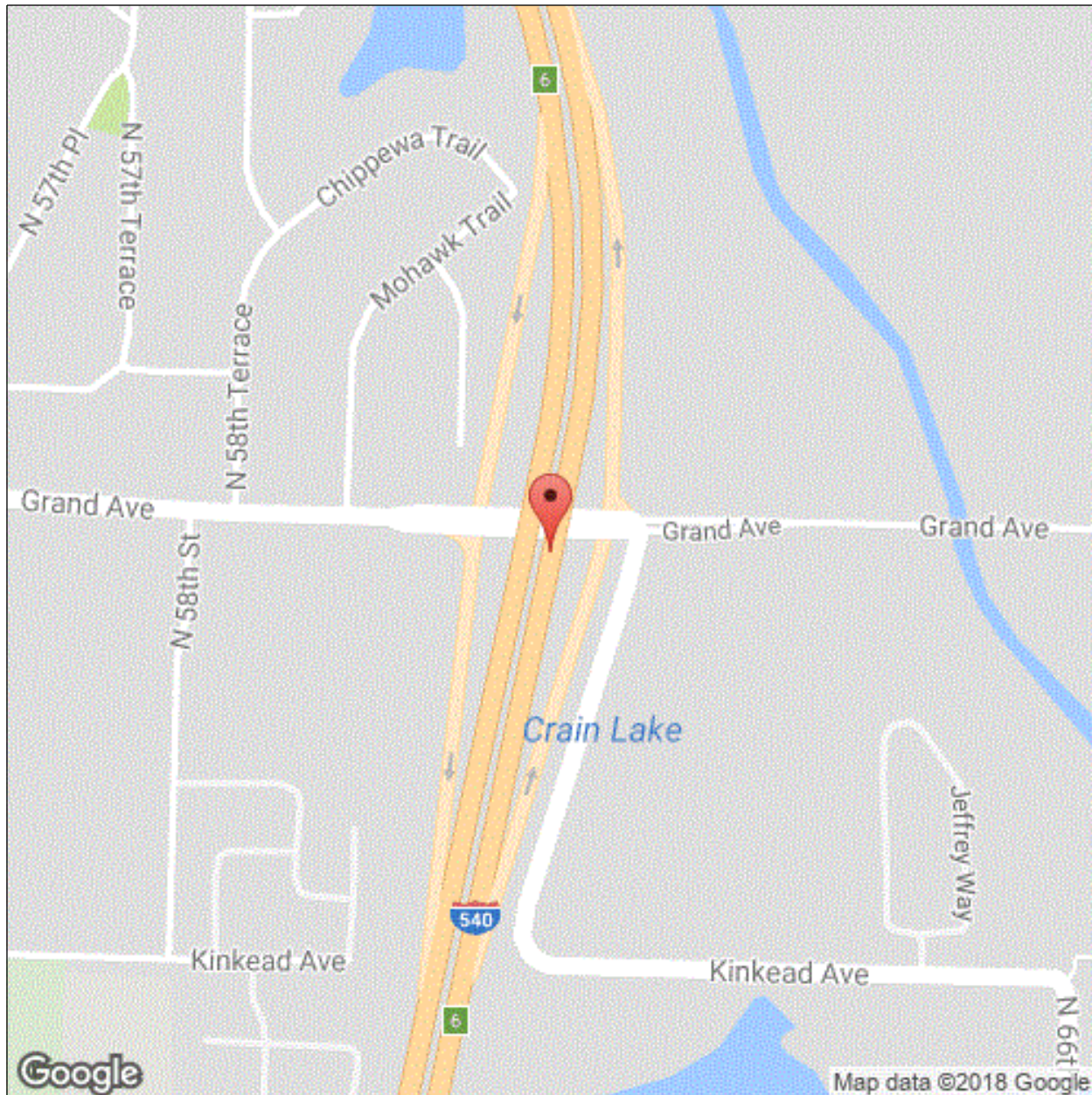
Structure Number: B6878

Inspection Date:

Facility Carried: I-540 NB Lanes

Bridge Inspection Report

Location Map



Latitude: 35.38483

Longitude: -94.36406

Inspector:

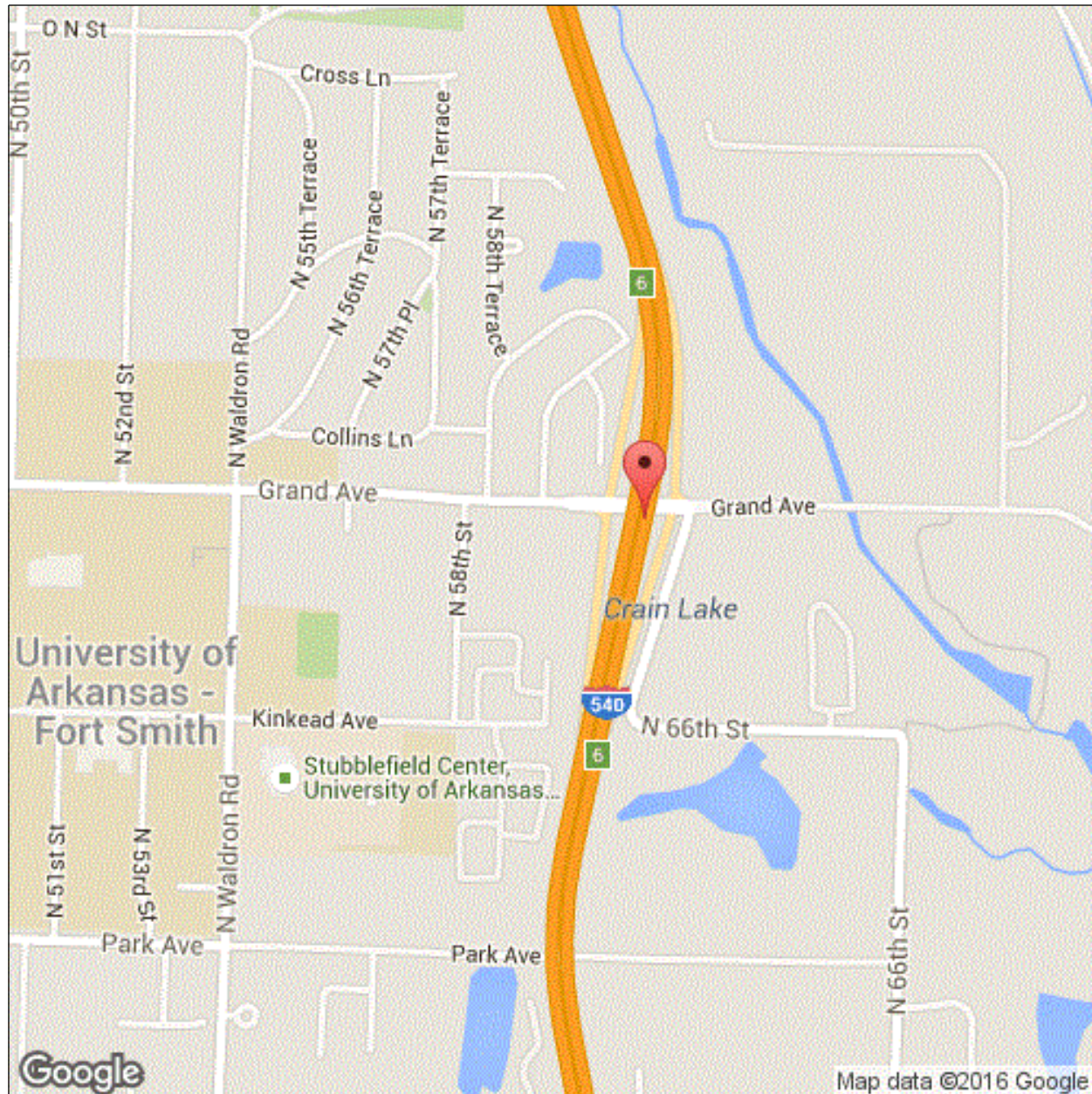
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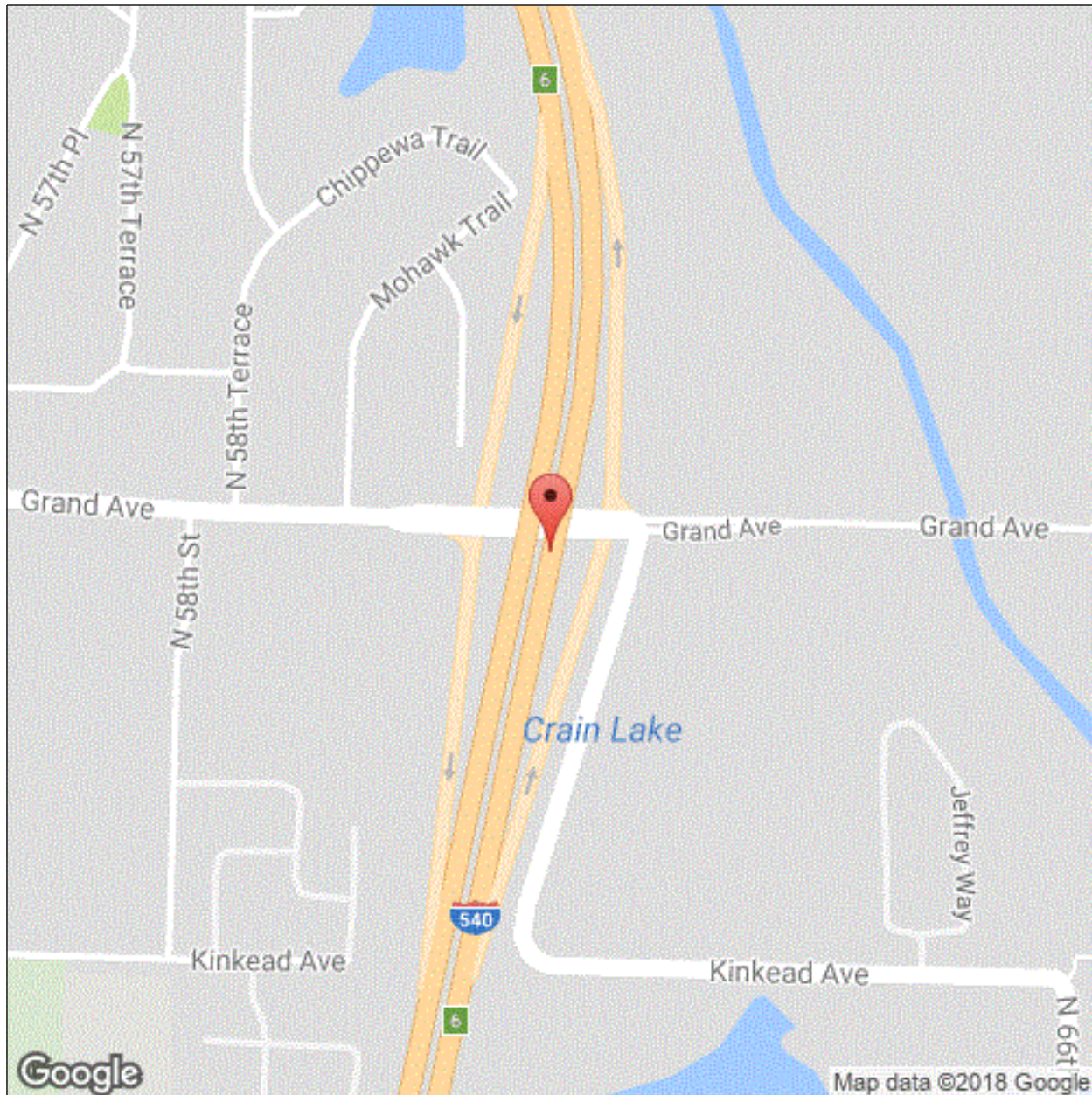
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Executive Summary

02/14/2018 JPB & SPC-Routine Inspection conducted on this date.
Vertical underclearances were actual field verified at this inspection.

02/08/2016 - JCJ & JML - Vertical underclearances were actual field verified at this inspection.

Inspector:

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	02/14/2018
(8) STRUCTURE NUMBER	B6878	(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 131	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	24060	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Grand Avenue-Seb. Co.	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I-540 NB Lanes		
(9) LOCATION	1.77 MI N SH 22		
(11) MILEPOINT 8.508	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000540010 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.38483	(17) LONGITUDE -94.36406		
(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	8 (60) SUBSTRUCTURE 8
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION	N (62) CULVERT N
(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 1		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 2013	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	6
(42) TYPE OF SERVICE ON 6 UNDER 1		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 03		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 54000	(19) BYPASS DETOUR LENGTH 0	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(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.) 43	(49) STRUCTURE LENGTH (ft.) 174.2	(67) STRUCTURAL EVALUATION	8
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1 RIGHT 1		(68) DECK GEOMETRY	7
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	41.3	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	4
(52) DECK WIDTH, OUT-TO-OUT (ft.)	43.2	(71) WATERWAY ADEQUACY	N
(32) APPROACH ROADWAY WIDTH (ft.)	40.7	(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 10	(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.)	41.3	36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.90	36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.)	H 18.67	36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H 8.6	(113) SCOUR CRITICAL BRIDGES	N
(56) MIN LATERAL UNDER CLEARANCE (ft.)	6.7	SUFFICIENCY RATING	0 STATUS 96.0
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	11
(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 73100	(115) YEAR OF FUTURE ADT 2026	(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:

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Facility Carried: I-540 NB Lanes

Bridge Inspection Report

National Bridge Inventory

UNDER RECORD A

IDENTIFICATION

(1) STATE CODE	056 - Arkansas	(7) FACILITY CARRIED	I-540 NB Lanes
(3) COUNTY CODE	131	(8) STRUCTURE NUMBER	B6878
(4) PLACE CODE	24060	(9) LOCATION	1.77 MI N SH 22
(5) INV. ROUTE (ON/UNDER)	A 5 1 23200 2	(11) MILEPOINT	3.329 (12) BASE HIGHWAY NETWORK 1
(6) FEATURES INTERSECTED	Grand Avenue	(13A) LRS INVENTORY ROUTE	00EGRAND (13B) SUBROUTE NUMBER 00 00
		(16) LATITUDE	35.38472222222222 (17) LONGITUDE -94.3641666666667

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	0	(30) YEAR OF AVERAGE DAILY TRAFFIC	1983
(27) YEAR BUILT	2013	(42) TYPE OF SERVICE	ON 6 UNDER 1
(28) LANES	ON 02 UNDER 03	(109) AVERAGE DAILY TRUCK TRAFFIC	1
(29) AVERAGE DAILY TRAFFIC	1481		

GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	18.8	(48) LENGTH OF MAXIMUM SPAN	43	(49) STRUCTURE LENGTH	174.2
(47) TOTAL HORIZONTAL CLEARANCE	40.5				

CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	1
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	14	(103) TEMP STRUCTURE	
(100) STRAHNET HIGHWAY DESIGNATION	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(101) PARALLEL STRUCTURE DESIGNATION	R	(110) DESIGNATED NATIONAL NETWORK	0

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Bridge Inspection Report

National Bridge Inventory

UNDER RECORD B

IDENTIFICATION

(1) STATE CODE	056 - Arkansas	(7) FACILITY CARRIED	I-540 NB Lanes
(3) COUNTY CODE	131	(8) STRUCTURE NUMBER	B6878
(4) PLACE CODE	24060	(9) LOCATION	1.77 MI N SH 22
(5) INV. ROUTE (ON/UNDER)	B 5 1 23200 4	(11) MILEPOINT	0.333 (12) BASE HIGHWAY NETWORK 1
(6) FEATURES INTERSECTED	Grand Avenue	(13A) LRS INVENTORY ROUTE	00EGRAND (13B) SUBROUTE NUMBER 00 00
		(16) LATITUDE	35.3847222222222 (17) LONGITUDE -94.3641666666667

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	0	(30) YEAR OF AVERAGE DAILY TRAFFIC	1990
(27) YEAR BUILT	2013	(42) TYPE OF SERVICE	ON 6 UNDER 1
(28) LANES	ON 02 UNDER 03	(109) AVERAGE DAILY TRUCK TRAFFIC	1
(29) AVERAGE DAILY TRAFFIC	2414		

GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	18.8	(48) LENGTH OF MAXIMUM SPAN	43	(49) STRUCTURE LENGTH	174.2
(47) TOTAL HORIZONTAL CLEARANCE	40.5				

CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	1
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	14	(103) TEMP STRUCTURE	
(100) STRAHNET HIGHWAY DESIGNATION	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(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.	6880	sq. ft.	6850	30	0	0
	-Transverse hairline cracks with efflorescence that appear to correspond from the saw joints in the parapet walls that are visible from the undersurface of the deck. -There is a new epoxy overlay that covers the entire driving surface of the deck.						
1120 - Efflorescence/Rust Staining		30			30		
107 - Steel Open Girder/Beam	1- Ben.	1032	ft.	1032			
	-New structure with no apparent noteworthy deficiencies at this inspection.						
515 - Steel Protective Coating		6450	sq. ft.	6450			
205 - Reinforced Concrete Column	1- Ben.	9	each	9			
	-The base of columns have insignificant scrape marks at this inspection.						
215 - Reinforced Concrete Abutment	1- Ben.	86	ft.	60	26	0	0
	-There are transverse cracks on the top of the back wall on the driving surface.						
1130 - Cracking (RC and Other)		26			26		
234 - Reinforced Concrete Pier Cap	1- Ben.	126	ft.	126			
300 - Strip Seal Expansion Joint	1- Ben.	88	ft.	88			
310 - Elastomeric Bearing	1- Ben.	30	each	30			
321 - Reinforced Concrete Approach Slab	1- Ben.	3037	sq. ft.	3020	17	0	0
	-The approach slabs have grind marks from the construction process. -The approach slabs at both bridge ends have transverse cracking in the Lt lane.						
1130 - Cracking (RC and Other)		17			17		
331 - Reinforced Concrete Bridge Railing	1- Ben.	344	ft.	341	3	0	0
	-Minor collision damage on the Rt concrete bridge railing over Span 3.						
7000 - Damage		3			3		

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Pictures

Inspector:

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Facility Carried: I-540 NB Lanes

Bridge Inspection Report

Sketches

Inspector:

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Maintenance Needs