

Bridge Inspection Report

A6966
US 65-17 SB 4.7
over
Walnut Lake



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

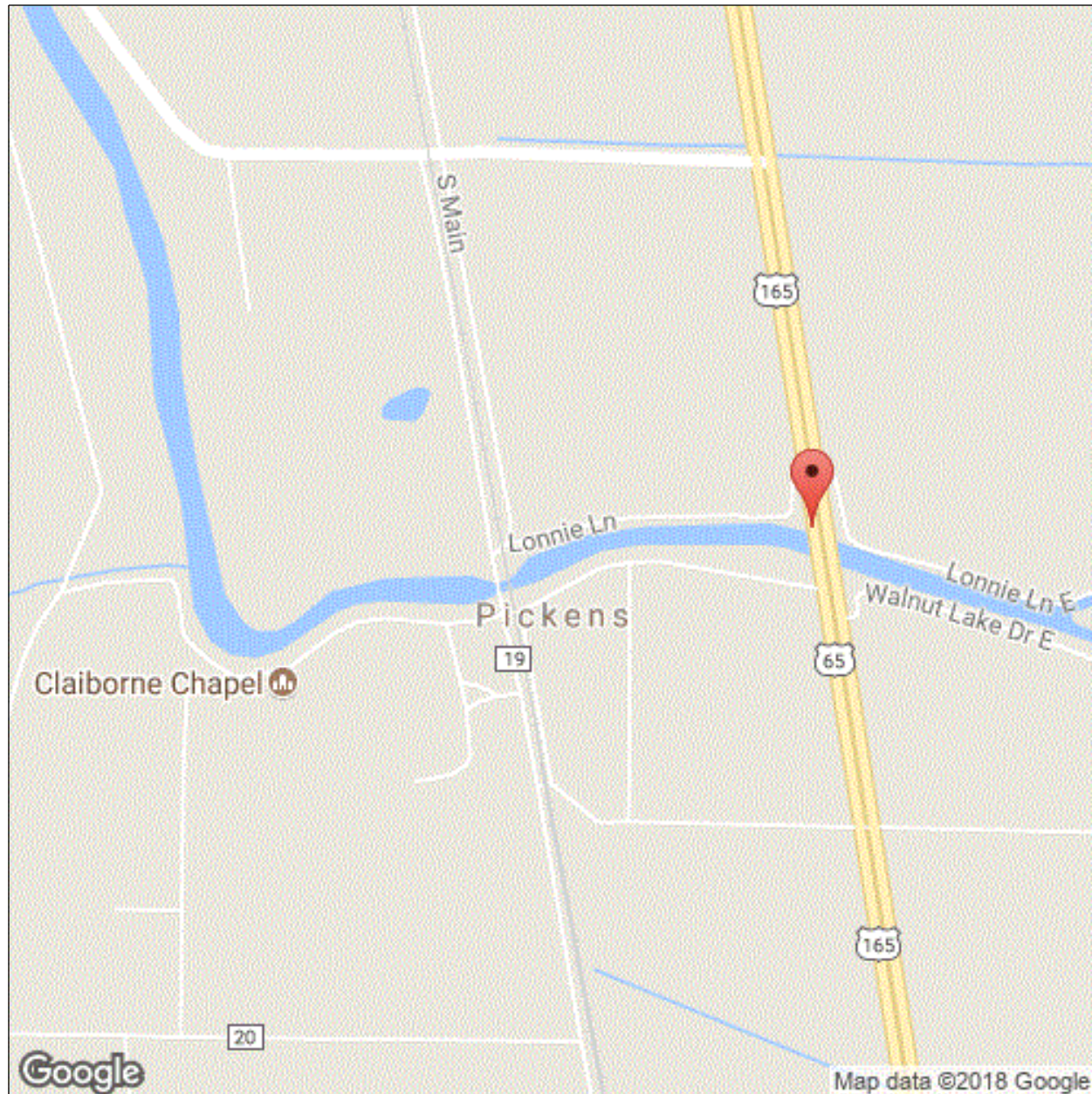
Structure Number: A6966

Inspection Date:

Facility Carried: US 65-17 SB 4.7

Bridge Inspection Report

Location Map



Latitude: 33.84706

Longitude: -91.47661

Inspector:

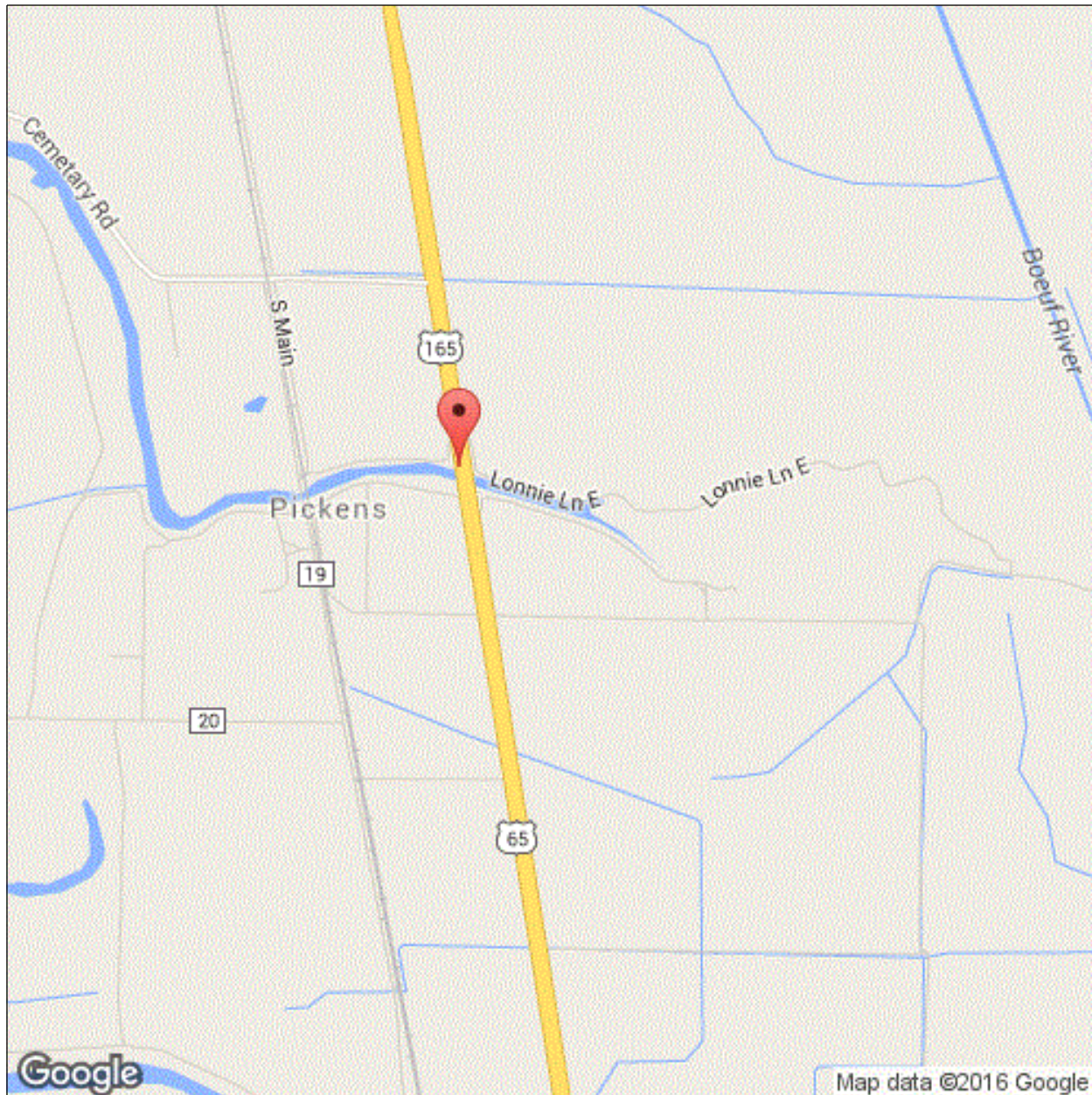
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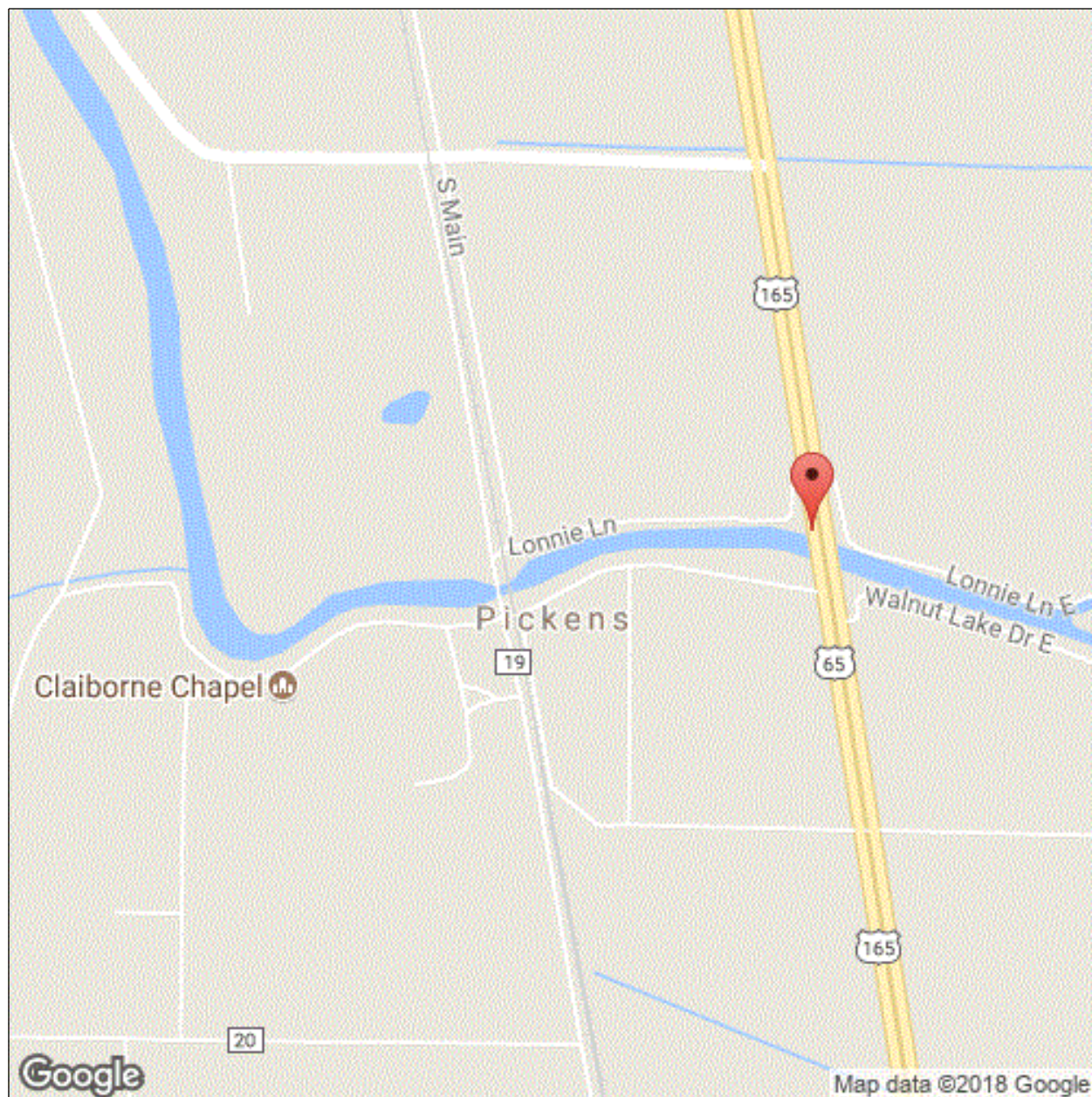
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Executive Summary

Beginning of structure toward SH 54, Dumas, North End.
Bridge 0000000000A6966 entered 5/16/2006 15:01:39 by userid rlw. Under Job #R20094 Structure #01987 was replaced with Structure 2 structures, #A6966 south bound traffic and B6966 north bound traffic.

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National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	04/03/2018
(8) STRUCTURE NUMBER	A6966	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 65 3	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	02 (3) COUNTY CODE 041	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Walnut Lake	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 65-17 SB 4.7		
(9) LOCATION	4.7 Mi N SH 138-Perkins		
(11) MILEPOINT 9.610	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000065170 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 33.84706	(17) LONGITUDE -91.47661		
(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	7 (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 2006	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	5
(42) TYPE OF SERVICE ON 1 UNDER 5		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 00		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 8000	(19) BYPASS DETOUR LENGTH 37	(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 22		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 68.8	(49) STRUCTURE LENGTH (ft.) 250.7	(67) STRUCTURAL EVALUATION	8
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	6
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 37.7		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 40.6		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 38.1		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 35	(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.) 38.7		36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.) N 0		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) N 99.9		(113) SCOUR CRITICAL BRIDGES	5
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING	84.9 STATUS 0
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 0		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	2
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	R
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	1
(114) FUTURE ADT 4328	(115) YEAR OF FUTURE ADT 2028	(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	5
		(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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Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	10178	sq. ft.	9177	1001	0	0
	Deck: 250.7' x 40.6'. All spans: Hairline- to minor-sized unsealed, longitudinal cracks, mainly on each side of Girders 4 & 5 (in travel lanes).						
1130 - Cracking (RC and Other)		1001			1001		
107 - Steel Open Girder/Beam	1- Ben.	1488	ft.	1488			
	6 beams at 248' each. The two outer girders are dark in color on outer sides exposed to light.						
515 - Steel Protective Coating		11284	sq. ft.	10344	940	0	0
3430 - Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)		940			940		
215 - Reinforced Concrete Abutment	1- Ben.	92	ft.	86	6	0	0
	46' each. Abutments 1 and 5. Both abutments have small vertical cracks with efflorescence.						
1120 - Efflorescence/Rust Staining		6			6		
227 - Reinforced Concrete Pile	1- Ben.	21	each	20	1	0	0
	7 pile per bent, bents 2 - 4. Bent 4 pile 4 ahead has very small contact spall left corner.						
1080 - Delamination/Spall/Patched Area		1			1		
234 - Reinforced Concrete Pier Cap	1- Ben.	135	ft.	135			
	45' ea. bents 2 - 4.						
301 - Pourable Joint Seal	1- Ben.	87	ft.	26	30	25	6
	43.5' each. abutments 1 and 5. Bents 1 & 5: Pourable joint material is deteriorating in several places - a couple of moderate sized holes and some sagging at both bents with leaking.						
2310 - Leakage		30			30		
2320 - Seal Adhesion		25				25	
2330 - Seal Damage		6					6
310 - Elastomeric Bearing	1- Ben.	30	each	30			
	6 per bent bents 1 - 5.						
331 - Reinforced Concrete Bridge Railing	1- Ben.	500	ft.	500			
	250' each side left and right side.						

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Pictures

PHOTO 1

Description

PHOTO 2

Description

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Bridge Inspection Report

Sketches

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 3/27/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Log mile sign – north end:
No sign in place – “+” end only. Object marker and post in place.

Work Description:

Placed by State Forces.

Date Repairs Completed: 04/06/2016

Maintenance Comments:

Inspector:

Structure Number: A6966

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/03/2018

Priority: D - Routine

Work Code:

Deficiency Description:

Joints – Bents 1 & 5: Pourable joint material is deteriorating in several places – a couple small holes and some sagging at both bents.

See photos.

Work Description:

Date Repairs Completed: 04/06/2016

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Bent 1 abutment pourable joint seal has loss of adhesion and are leaking .

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Maintenance Needs

Date Reported: 4/9/2014 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

End slopes – Spans 1 & 4: Some minor erosion under the abutment and down the slope.
Stormwater runoff is causing considerable erosion to end slopes on the right side of the bridge under drains – a couple large holes eroded right alongside of bridge.
See photos.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Maintenance Needs

Date Reported: 04/03/2018

Priority: D - Routine

Work Code:

Deficiency Description:

Deck – all spans: Small to moderate sized unsealed, longitudinal cracks, mainly on each side of Girders 4 & 5 (in travel lanes).

See photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1	Description	Longitudinal deck cracking at bent 4 near mid span in right lane but common on all spans .
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Maintenance Needs

Date Reported: 04/03/2018

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Sediment and debris impeding waters flow off of deck . Mainly on west side of deck by drains .

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Gutter line have debris impeding waters flow mainly on right side of deck .