

Bridge Inspection Report

B6966
US 65-17 NB 9.62
over
Walnut Lake



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

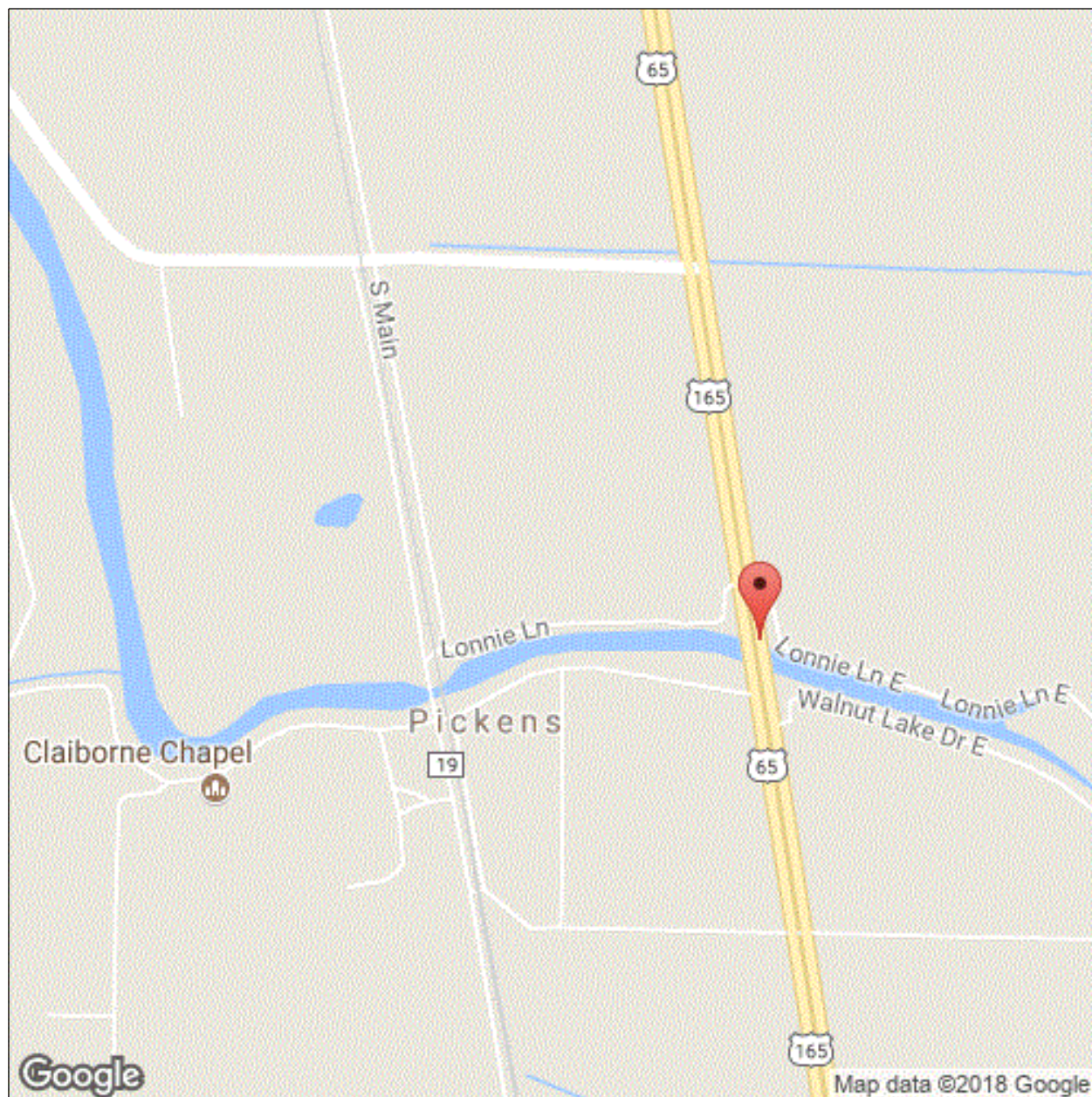
Inspection Date:

Structure Number: B6966

Facility Carried: US 65-17 NB 9.62

Bridge Inspection Report

Location Map



Latitude: 33.84696

Longitude: -91.47631

Inspector:

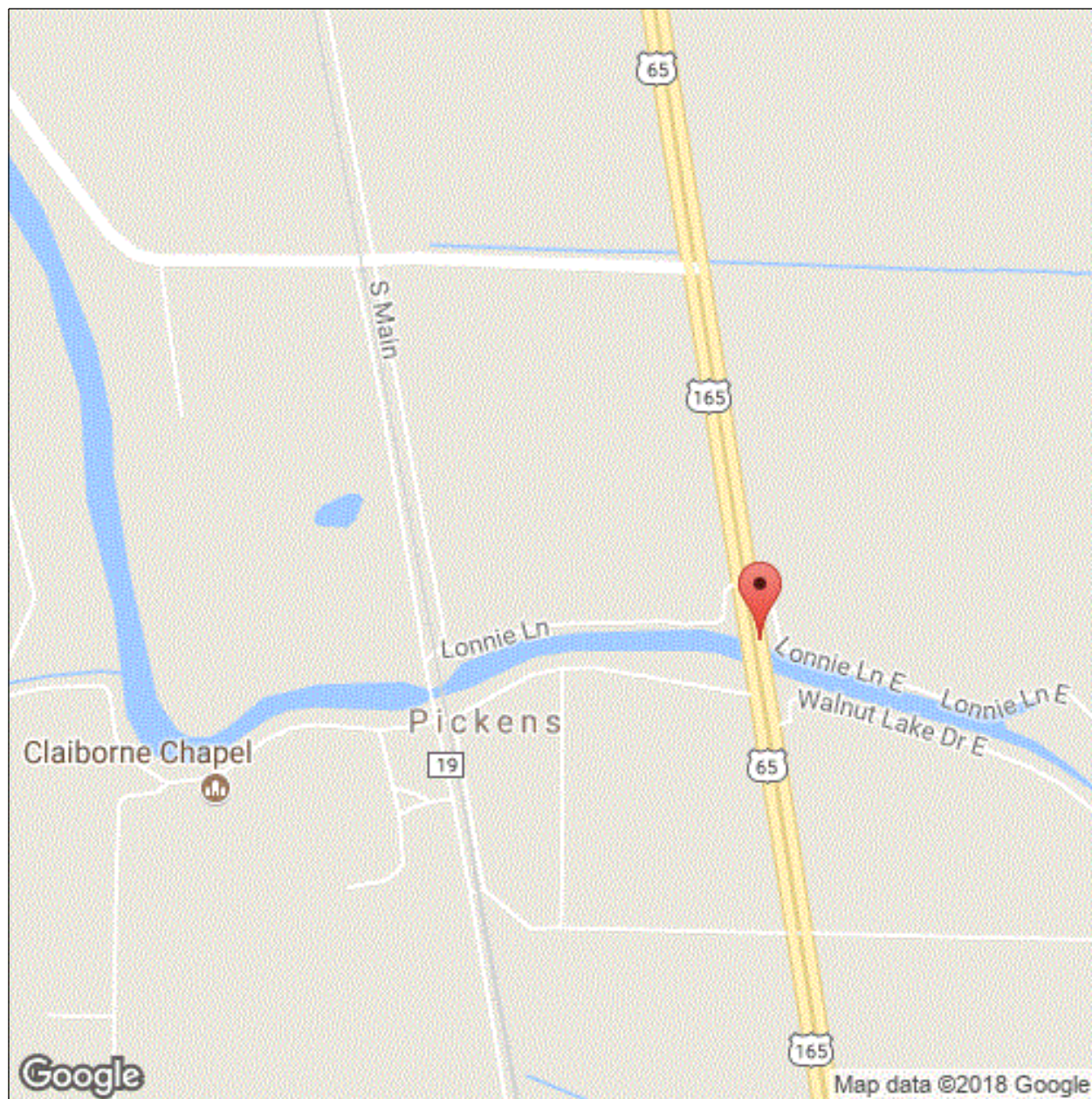
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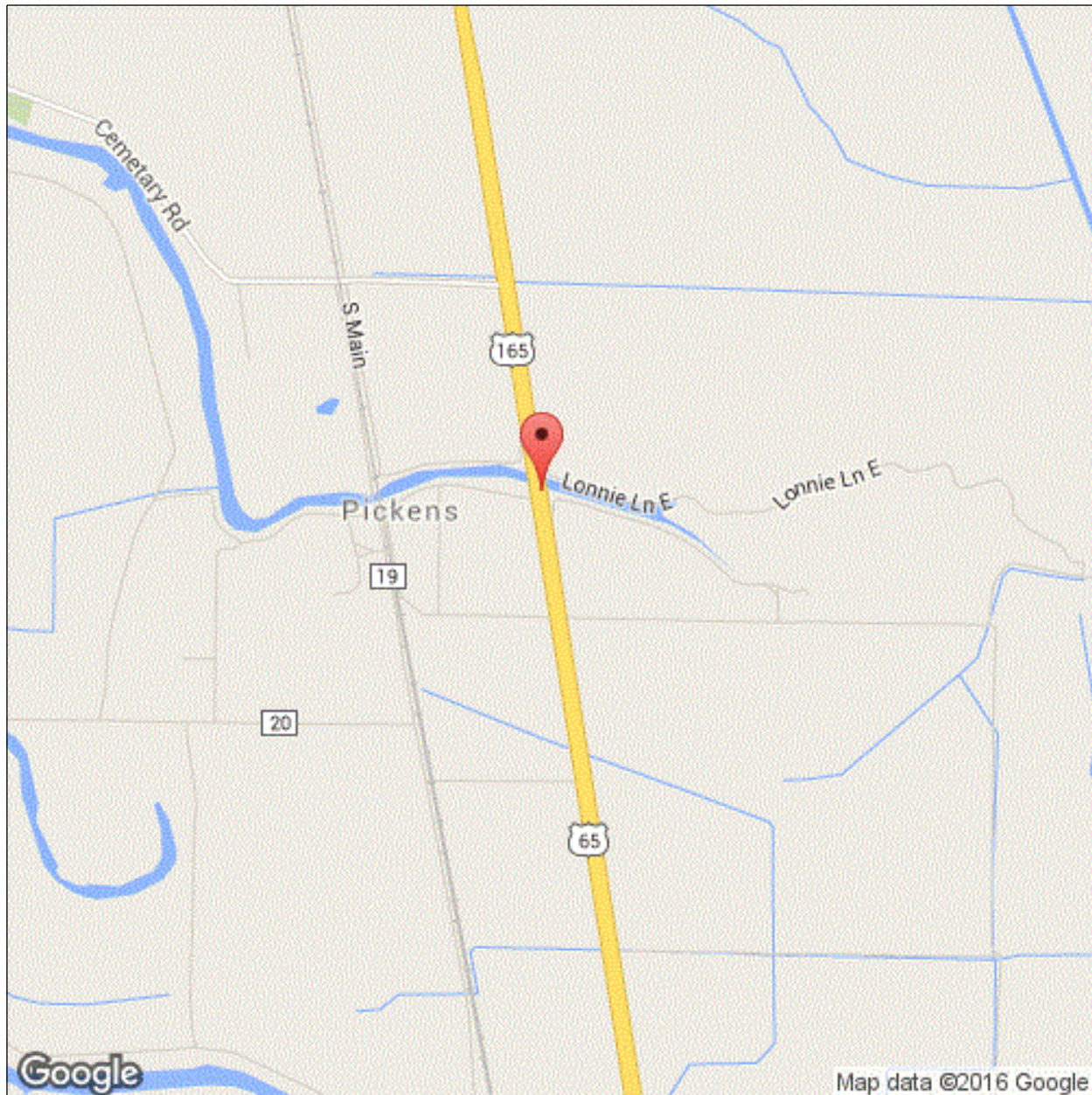
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Executive Summary

Beginning of structure toward SH 54, Dumas, North End.

Bridge 0000000000B6966 entered 5/16/2006 15:28:50 by userid rlw. Under Job #R20094 Replaces Structure #01987 has been replaced with str. A & B 6966.

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National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	04/03/2018
(8) STRUCTURE NUMBER	B6966	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 65 1	(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 NB 9.62		
(9) LOCATION	4.7 Mi N SH 138-Perkins		
(11) MILEPOINT 9.620	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000065170 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 33.84696	(17) LONGITUDE -91.47631		
(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 N	(108C) DECK PROTECTION N		
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 9858	(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	L
(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.	9668	510	0	0
	Deck: 250.7' x 40.6' All spans: Moderate to minor-sized unsealed, longitudinal cracks, mainly on each side of Girders 3, 4, & 5 (in travel lanes).						
1130 - Cracking (RC and Other)		510			510		
107 - Steel Open Girder/Beam	1- Ben.	1488	ft.	1488			
	6 beams at 248' Outer two girders are dark in color on the outer sides exposed to sunlight.						
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.	65	7	20	0
	46' each abutments 1 and 5. Both abutments have small vertical cracks in back wall. Bent 1 abutment slope erosion has exposed the abutment to the roadway approach near center line.						
1120 - Efflorescence/Rust Staining		2			2		
6000 - Scour		25			5	20	
227 - Reinforced Concrete Pile	1- Ben.	21	each	21			
	7 piles per bent, bents 2-4						
234 - Reinforced Concrete Pier Cap	1- Ben.	135	ft.	135			
	45' each bent, bents 2-4.						
301 - Pourable Joint Seal	1- Ben.	87	ft.	53	8	18	8
	43.5' each bents 1 & 5 Bents 1 & 5: Pourable joint material is deteriorating in several places - a couple small holes in joint at Bent 5. Both seals have lose of adhesion and leakage.						
2310 - Leakage		6				6	
2320 - Seal Adhesion		20			8	12	
2330 - Seal Damage		8					8
310 - Elastomeric Bearing	1- Ben.	30	each	24	0	6	0
	6 per bent 1-5. Masonry plates at bent 5 have heavy flaking rust due to expansion joints leaking .						
1000 - Corrosion		6				6	
331 - Reinforced Concrete Bridge Railing	1- Ben.	500	ft.	500			
	250' each 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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Maintenance Needs

Date Reported: 04/03/2018

Priority: B - Pressing; 6 month completion goal

Work Code:

Deficiency Description:

End slopes – Spans 1 Some erosion under the abutment and down the slope, with a couple of piling and the bottom of the cap exposed from girders 2-5 back to roadway embankment.

Stormwater runoff is causing considerable erosion to end slopes on the left side of the bridge under drains – a couple large holes eroded right alongside of bridge.

See photos.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1	Description	Erosion under abutment at bent 1 between girders 2 -5(is 4' back is exposing pile and to approach roadway .)
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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 in joint at Bent 5.

Work Description:

Date Repairs Completed: 04/06/2016

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Bent 5 expansion joint has loss of adhesion and leaking . (Common at all expansion joints)

Stage: Monitor



PHOTO 2 Description Expansion joint at bent 1 has some loss of adhesion , debris impact and leakage .

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Maintenance Needs

Date Reported: 04/03/2018

Priority: D - Routine

Work Code:

Deficiency Description:

Deck – all spans: Moderate to minor-sized unsealed, longitudinal cracks, mainly on each side of Girders 3, 4, & 5 (in travel lanes).

See photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Longitudinal cracking at span 4 but common on all deck spans .

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Maintenance Needs

Date Reported: 04/06/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Both sides of bridge at bent 1 have. Vines and vegetation growing along side and on bridge.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Desha: Remove and advise me when complete

Stage: Open



PHOTO 1 Description Bent 1 both sides of bridge Vines and vegetation growing along side .

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Maintenance Needs

Date Reported: 04/03/2018

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Pot hole at south end of deck in right lane as approach

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Pot hole on south end of approach in right lane heading north .