

Bridge Inspection Report

01916
US 412-08- LM 6.99
over
CANEY SLOUGH



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

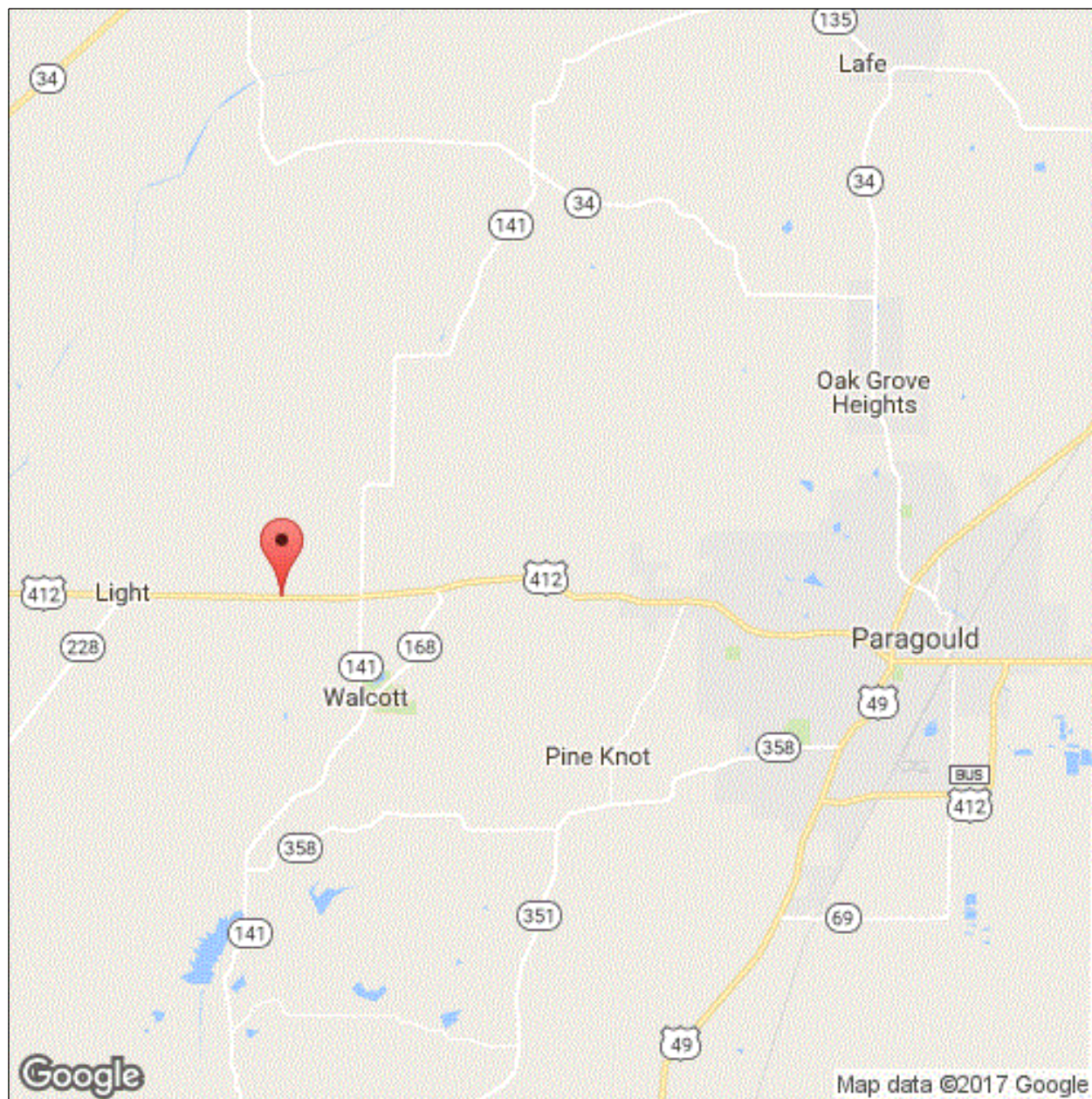
Structure Number: 01916

Inspection Date:

Facility Carried: US 412-08- LM 6.99

Bridge Inspection Report

Location Map



Latitude: 36.068840107624005

Longitude: -90.69767451273071

Inspector:

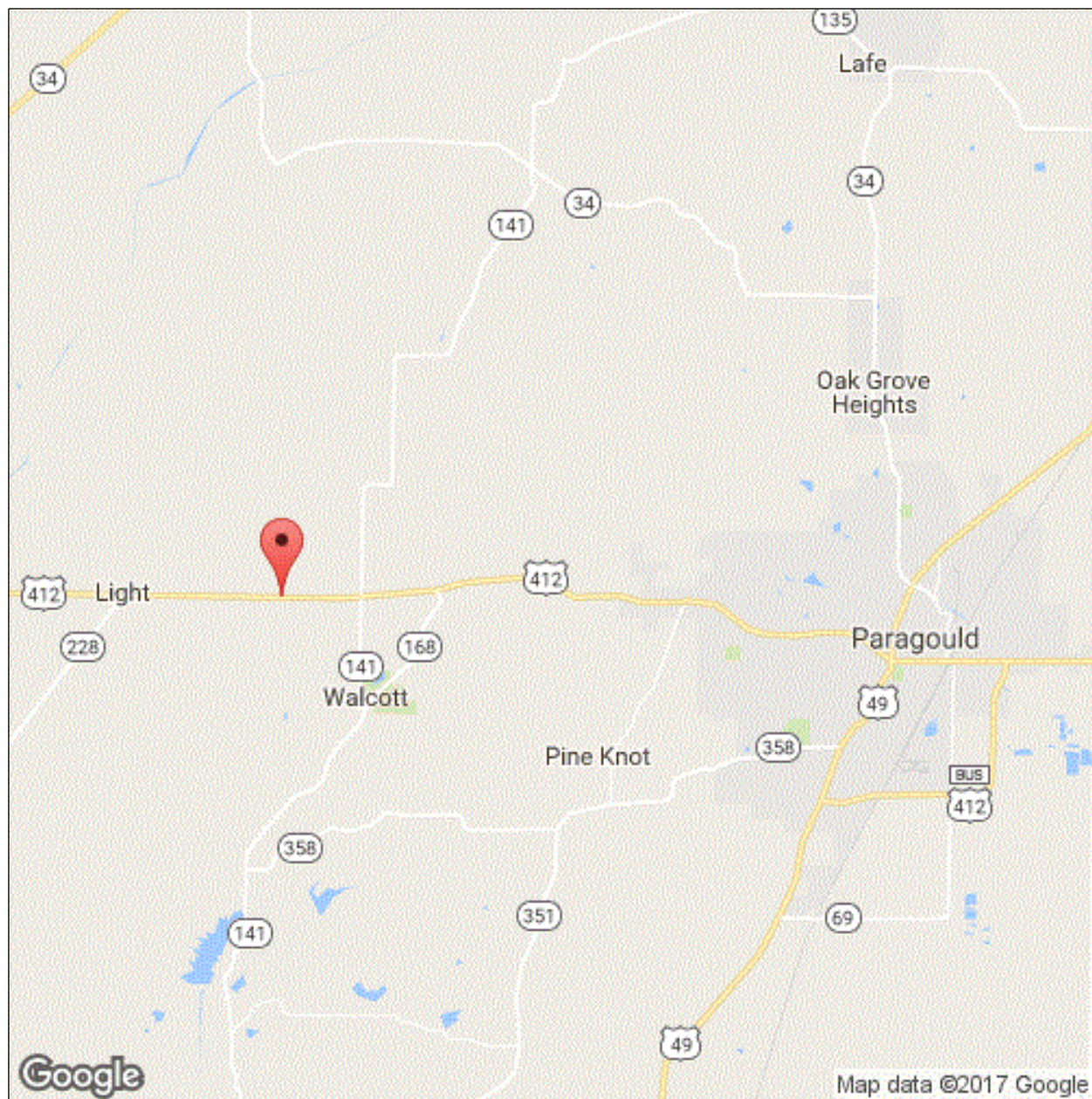
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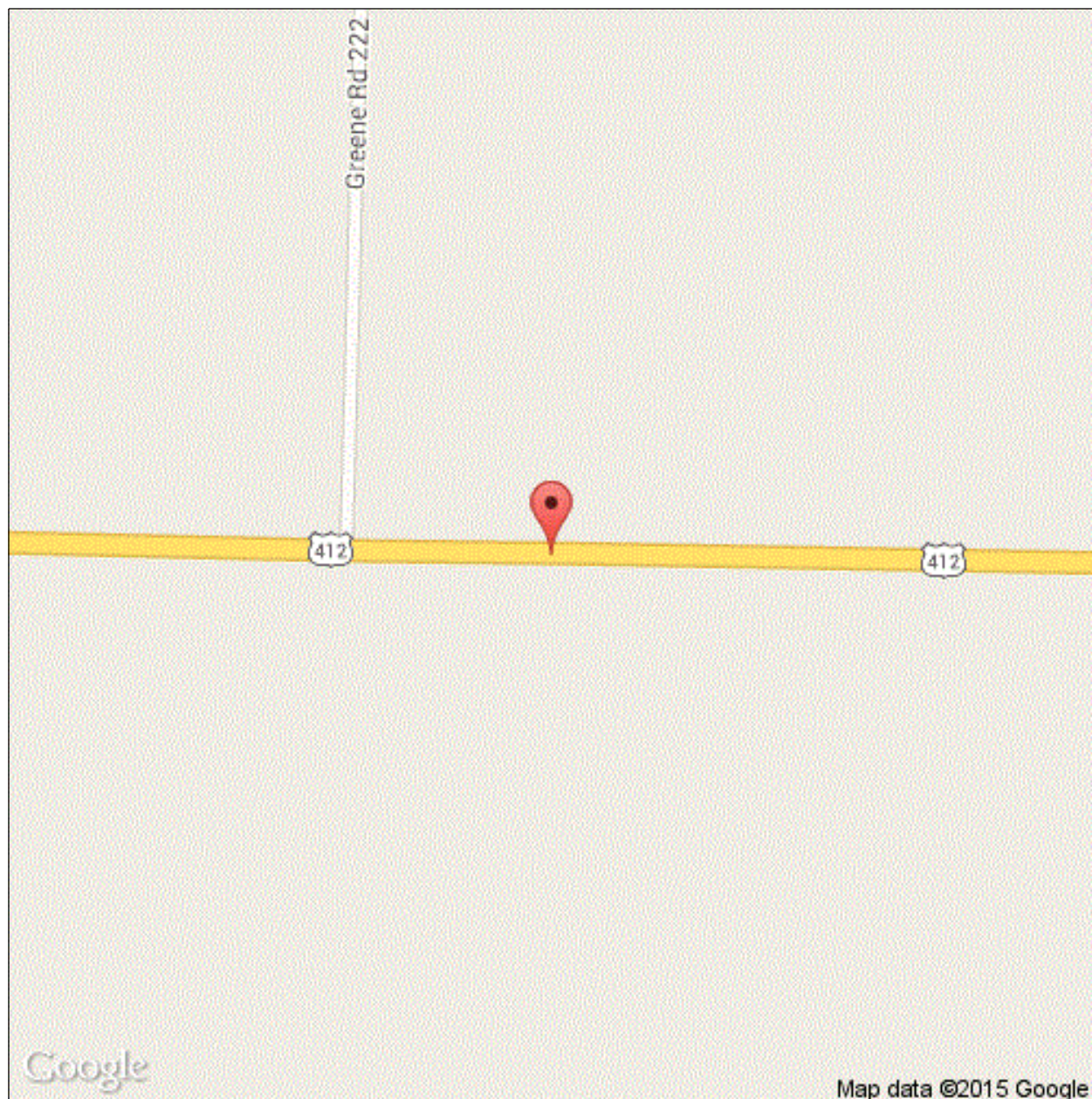
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Bridge Inspection Report

Executive Summary

Inspector:

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	05/02/2017
(8) STRUCTURE NUMBER	01916	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 412 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	10 (3) COUNTY CODE 055	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	CANEY SLOUGH	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 412-08- LM 6.99		
(9) LOCATION	7.08 MI E OF CACHE RIVER		
(11) MILEPOINT 6.990	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000412080 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 36.068840107624005	(17) LONGITUDE -90.69767451273071		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	7
A) KIND OF MATERIAL/DESIGN: 1 - Concrete		(59) SUPERSTRUCTURE	7
B) TYPE OF DESIGN/CONSTR: 04 - Tee Beam		(60) SUBSTRUCTURE	7
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	6
A) KIND OF MATERIAL/DESIGN: 1 - Concrete		(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR: 01 - Slab			
(45) NUMBER OF SPANS IN MAIN 1	(46) NUMBER OF APPROACH 2		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 6		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1936	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	2
(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	34
(29) AVERAGE DAILY TRAFFIC 4200	(19) BYPASS DETOUR LENGTH 5	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	21
(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.) 35	(49) STRUCTURE LENGTH (ft.) 71	(67) STRUCTURAL EVALUATION	5
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0.6 RIGHT 0.6		(68) DECK GEOMETRY	2
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 24.0		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 26.0		(71) WATERWAY ADEQUACY	9
(32) APPROACH ROADWAY WIDTH (ft.) 44.0		(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:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 24.4		36B) TRANSITIONS:	0
(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	60.3
		STATUS	2
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED 31	(75B) WORK DONE BY 1	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 96.0		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
(95) ROADWAY IMPROVEMENT COST (\$)	176	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	374	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2003	(102) DIRECTION OF TRAFFIC	2
		(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

Inspector:

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Bridge Inspection Report

National Bridge Inventory

(114) FUTURE ADT 4600

(115) YEAR OF FUTURE ADT 2033

(40) NAV HORIZONTAL CLEARANCE (ft.) 0

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Bridge Inspection Report

Element Inspection

Rollup

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
16 - Reinforced Concrete Top Flange	1- Ben.	910	sq. ft.	910	0	0	0
510 - Wearing Surfaces		840	sq. ft.	617	0	223	0
3220 - Crack (Wearing Surface)		223		0	0	223	0
38 - Reinforced Concrete Slab	1- Ben.	936	sq. ft.	918	0	18	0
1120 - Efflorescence/Rust Staining		18		0	0	18	0
510 - Wearing Surfaces		864	sq. ft.	590	0	274	0
3220 - Crack (Wearing Surface)		274		0	0	274	0
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	175	ft.	175	0	0	0
215 - Reinforced Concrete Abutment	1- Ben.	72	ft.	62	0	10	0
1130 - Cracking (RC and Other)		2		0	0	2	0
6000 - Scour		8		0	0	8	0
227 - Reinforced Concrete Pile	1- Ben.	10	each	10	0	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	54	ft.	54	0	0	0
311 - Movable Bearing	1- Ben.	5	each	0	0	5	0
1000 - Corrosion		5		0	0	5	0
313 - Fixed Bearing	1- Ben.	5	each	0	0	5	0
1000 - Corrosion		5		0	0	5	0
333 - Other Bridge Railing	1- Ben.	142	ft.	135	0	7	0
1010 - Cracking		2		0	0	2	0
1080 - Delamination/Spall/Patched Area		2		0	0	2	0

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Bridge Inspection Report

Element Inspection

main

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
16 - Reinforced Concrete Top Flange	1- Ben.	910	sq. ft.	910			
510 - Wearing Surfaces		840	sq. ft.	617	0	223	0
3220 - Crack (Wearing Surface)		223				223	
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	175	ft.	175			
227 - Reinforced Concrete Pile	1- Ben.	10	each	10			
234 - Reinforced Concrete Pier Cap	1- Ben.	54	ft.	54			
311 - Movable Bearing	1- Ben.	5	each	0	0	5	0
1000 - Corrosion		5				5	
313 - Fixed Bearing	1- Ben.	5	each	0	0	5	0
1000 - Corrosion		5				5	
333 - Other Bridge Railing	1- Ben.	70	ft.	67		3	

Inspector:

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Bridge Inspection Report

Element Inspection

approach

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
38 - Reinforced Concrete Slab	1- Ben.	936	sq. ft.	918	0	18	0
1120 - Efflorescence/Rust Staining		18				18	
510 - Wearing Surfaces		864	sq. ft.	590	0	274	0
3220 - Crack (Wearing Surface)		274				274	
215 - Reinforced Concrete Abutment	1- Ben.	72	ft.	62	0	10	0
1130 - Cracking (RC and Other)		2				2	
6000 - Scour		8				8	
333 - Other Bridge Railing	1- Ben.	72	ft.	68	0	4	0
1010 - Cracking		2				2	
1080 - Delamination/Spall/Patched Area		2				2	

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Bridge Inspection Report

Pictures

PHOTO 1

Description

Inspector:

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Facility Carried: US 412-08- LM 6.99

Bridge Inspection Report

Sketches

Inspector:

Structure Number: 01916

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 6/9/2011 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Channel and Slope erosion

Spans 2&3 at Bents 2&3 has heavy Embankment Erosion, 3ft - 5ft loss of pile penetration typical in the past.

Left end of Bent 1 Abutment has some erosion from roadway runoff, Cap is undermining up to 2.5ft deep and 2.5ft. back under cap, see 2017 photo.

3ft. right side of Bent 4 Abutment is beginning to undermining up to 3in. deep and 2ft. back under cap.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Inspector:

Structure Number: 01916

Inspection Date:

Facility Carried: US 412-08- LM 6.99

Bridge Inspection Report

Maintenance Needs

Date Reported: 6/9/2011 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Majority of Anchor bolts and Nuts
are rusted with section loss, some nuts have complete section loss.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 6/9/2011 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Span 1 Right Side Concrete Bridge Rail Post 1&2
are broke from collision damage, new metal railing has been installed at this location.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 6/9/2011 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Asphalt Overlay Top of Deck
has minor size cracking, mostly over joints.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 5/29/2013 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Log Mile Posting at Bridge
is posted incorrectly at 7.08 should be 6.99.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 5/29/2013 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Approach Roadway Both Bridge Ends
have 1 in. roadway settlement.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 5/29/2013 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

South West Corner Wing Wall
is broke from collision damage, see 2013 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 5/29/2013 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Bottom of Deck
has minor cracking with light efflorescence.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 5/29/2013 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Bearings
are rusted with pack rust with minor section loss.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 5/29/2013 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Rocker Bearings Bent 3
are tilted as previously reported, girders are butted against concrete haunch on span 3 concrete slab.

Work Description:

Date Repairs Completed:

Maintenance Comments:
