

Bridge Inspection Report

01915

US 412-08- LM 5.52

over

Main Lateral Drain Ditch



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

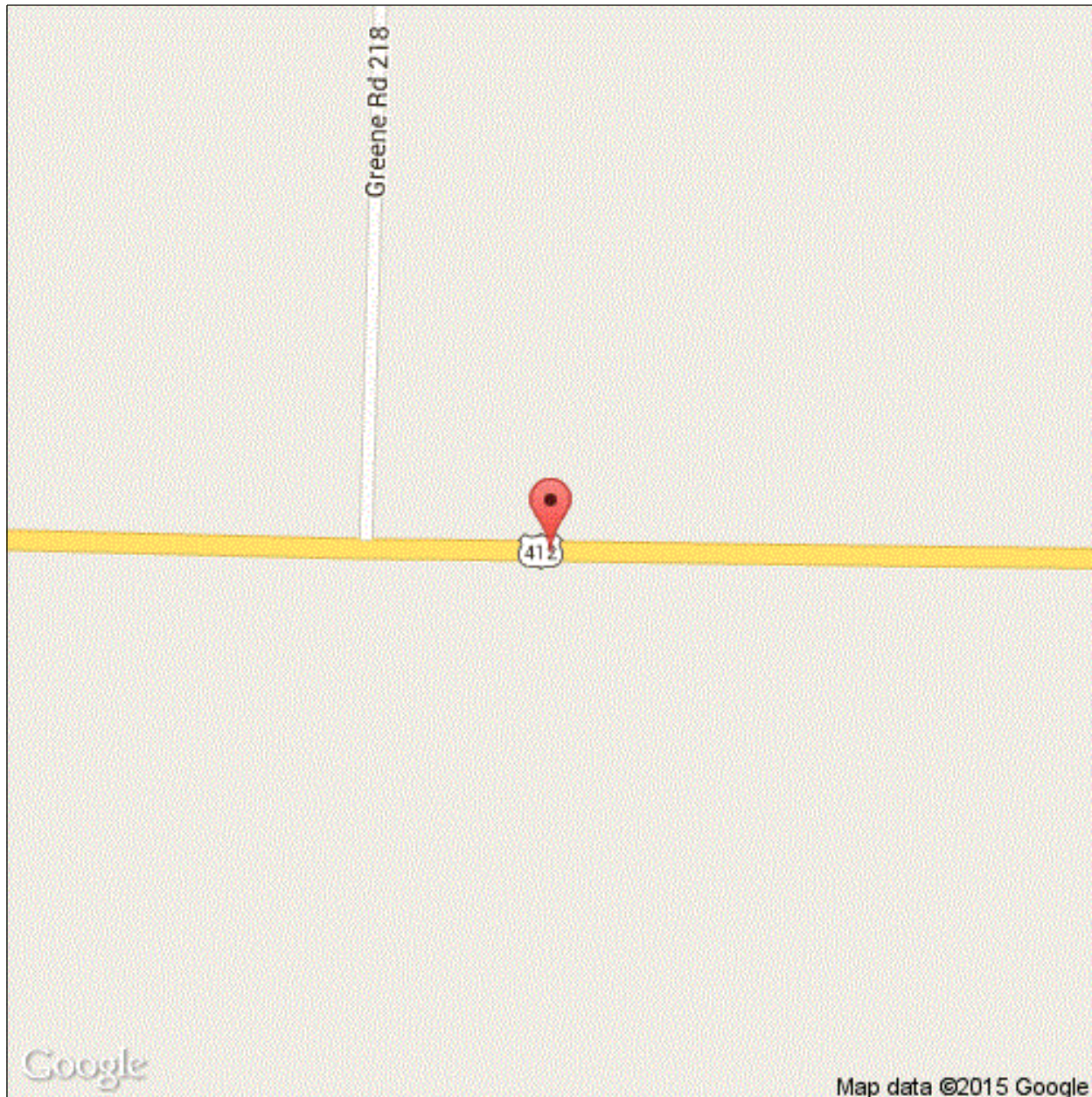
Structure Number: 01915

Inspection Date:

Facility Carried: US 412-08- LM 5.52

Bridge Inspection Report

Location Map



Latitude: 36.06901

Longitude: -90.72385

Inspector:

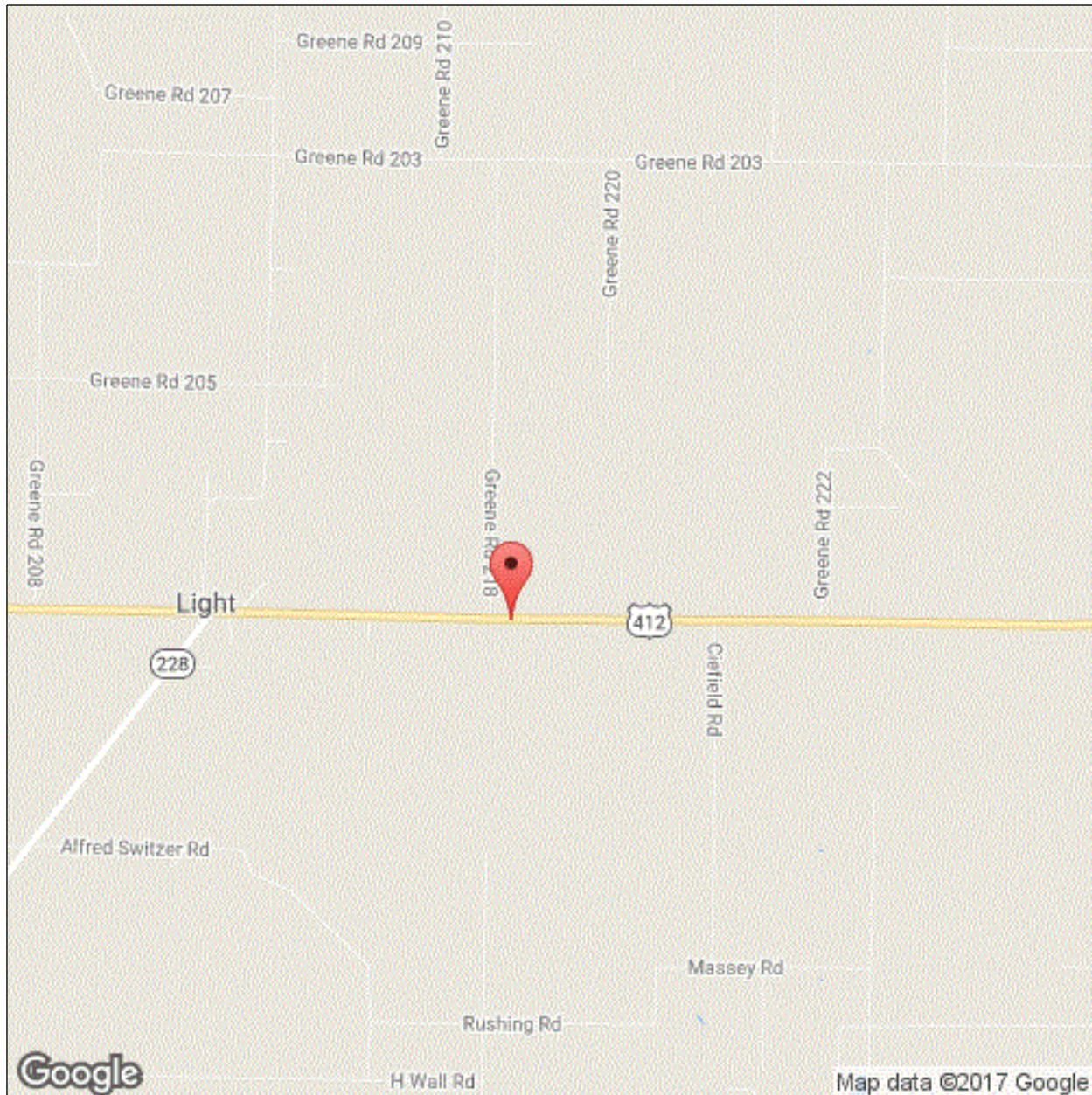
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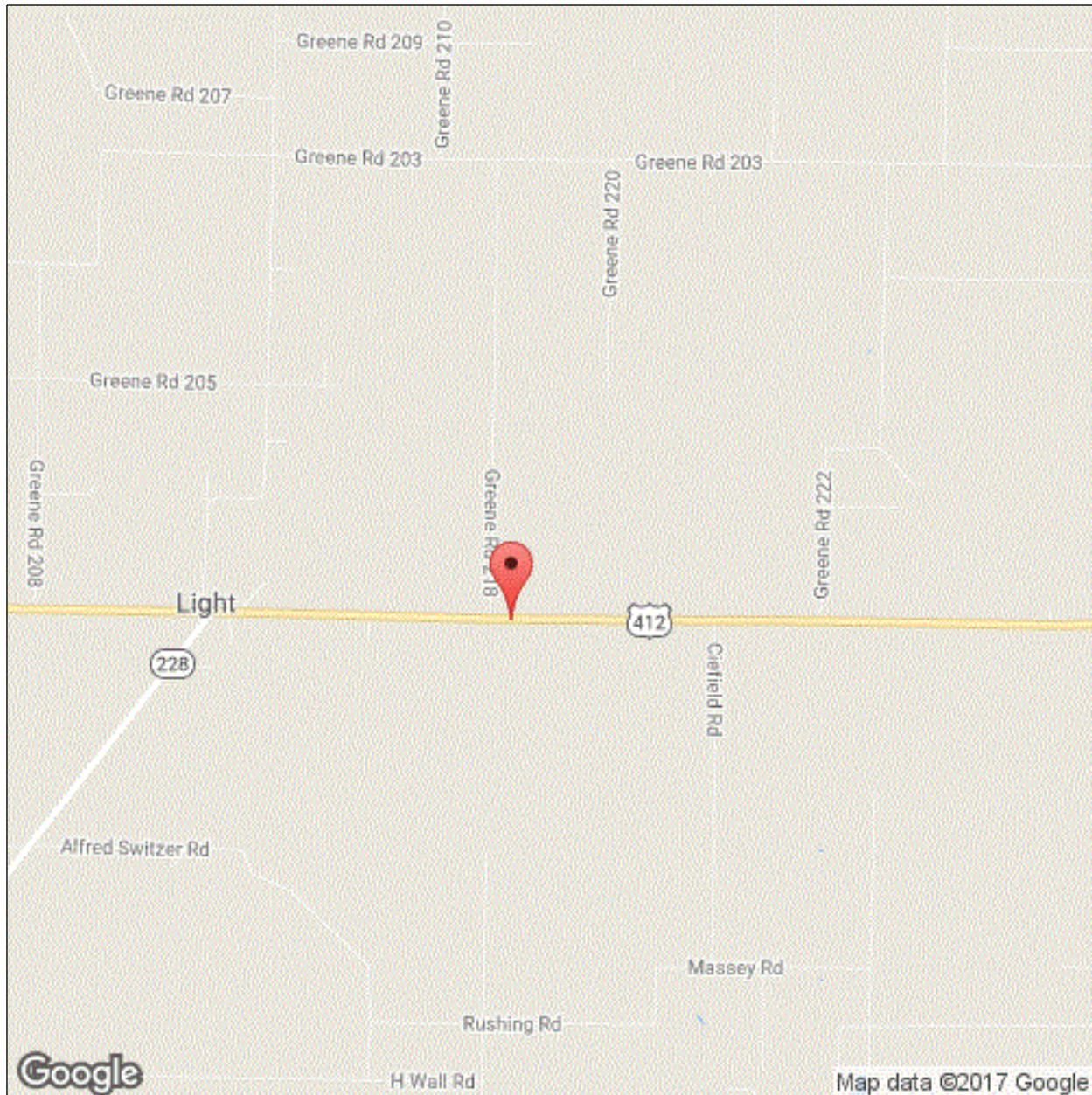
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Executive Summary

Inspector:

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	08/08/2017
(8) STRUCTURE NUMBER	01915	(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	Main Lateral Drain Ditch	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 412-08- LM 5.52		
(9) LOCATION	5.52 MI E CACHE RIVER		
(11) MILEPOINT 5.520	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000412080 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 36.06901	(17) LONGITUDE -90.72385		
(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		
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE		
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1936 (106) YEAR RECONSTRUCTED	(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	(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.)	(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.)	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	36A) BRIDGE RAILINGS:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	24.0	36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	36D) APPROACH GUARDRAIL ENDS:	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(113) SCOUR CRITICAL BRIDGES	5
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	SUFFICIENCY RATING	57.6
		STATUS	2
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	31 (75B) WORK DONE BY	(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
(114) FUTURE ADT	4600 (115) YEAR OF FUTURE ADT	(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

Inspector:

Structure Number: 01915

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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.	385	455	0	0
3220 - Crack (Wearing Surface)		455		0	455	0	0
38 - Reinforced Concrete Slab	1- Ben.	936	sq. ft.	900	36	0	0
1120 - Efflorescence/Rust Staining		36		0	36	0	0
510 - Wearing Surfaces		864	sq. ft.	484	380	0	0
3220 - Crack (Wearing Surface)		380		0	380	0	0
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	175	ft.	175	0	0	0
215 - Reinforced Concrete Abutment	1- Ben.	74	ft.	0	0	74	0
1080 - Delamination/Spall/Patched Area		5		0	0	5	0
6000 - Scour		69		0	0	69	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.	10	each	0	5	5	0
1000 - Corrosion		10		0	5	5	0
313 - Fixed Bearing	1- Ben.	5	each	0	5	0	0
1000 - Corrosion		5		0	5	0	0
333 - Other Bridge Railing	1- Ben.	142	ft.	139	3	0	0
7000 - Damage		3		0	3	0	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.	385	455	0	0
3220 - Crack (Wearing Surface)		455			455		
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.	10	each	0	5	5	0
1000 - Corrosion		10			5	5	
313 - Fixed Bearing	1- Ben.	5	each	0	5	0	0
1000 - Corrosion		5			5		
333 - Other Bridge Railing	1- Ben.	70	ft.	70			

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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.	900	36	0	0
1120 - Efflorescence/Rust Staining		36			36		
510 - Wearing Surfaces		864	sq. ft.	484	380	0	0
3220 - Crack (Wearing Surface)		380			380		
215 - Reinforced Concrete Abutment	1- Ben.	74	ft.	0	0	74	0
1080 - Delamination/Spall/Patched Area		5				5	
6000 - Scour		69				69	
333 - Other Bridge Railing	1- Ben.	72	ft.	69	3	0	0
7000 - Damage		3			3		

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Bridge Inspection Report

Pictures

PHOTO 1

Description

Inspector:

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Bridge Inspection Report

Sketches

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 8/21/2013 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Span 3 left Bridge Rail has 2ft. of the NE corner and 75ft. Approach Rail has collision damage.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 8/21/2013 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Log Mile Posting
is incorrect, correct LM=5.52.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

Structure Number: 01915

Inspection Date:

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Maintenance Needs

Date Reported: 8/21/2013 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Embankment erosion is undermining Abutments Bent 1&4 up to 2.5ft. from roadway runoff exposing Piles 4&5 Bent 4, see 2017 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description

Inspector:

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Maintenance Needs

Date Reported: 8/21/2013 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Bearings are rusted with some section loss.

Majority of Anchor Bolts Nuts are rusted with up to 100% section loss.

Work Description:

Date Repairs Completed:

Maintenance Comments:
