

Bridge Inspection Report

05161

SH 41-SEC.02- 0.92

over

LITTLE RIVER RELIEF



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

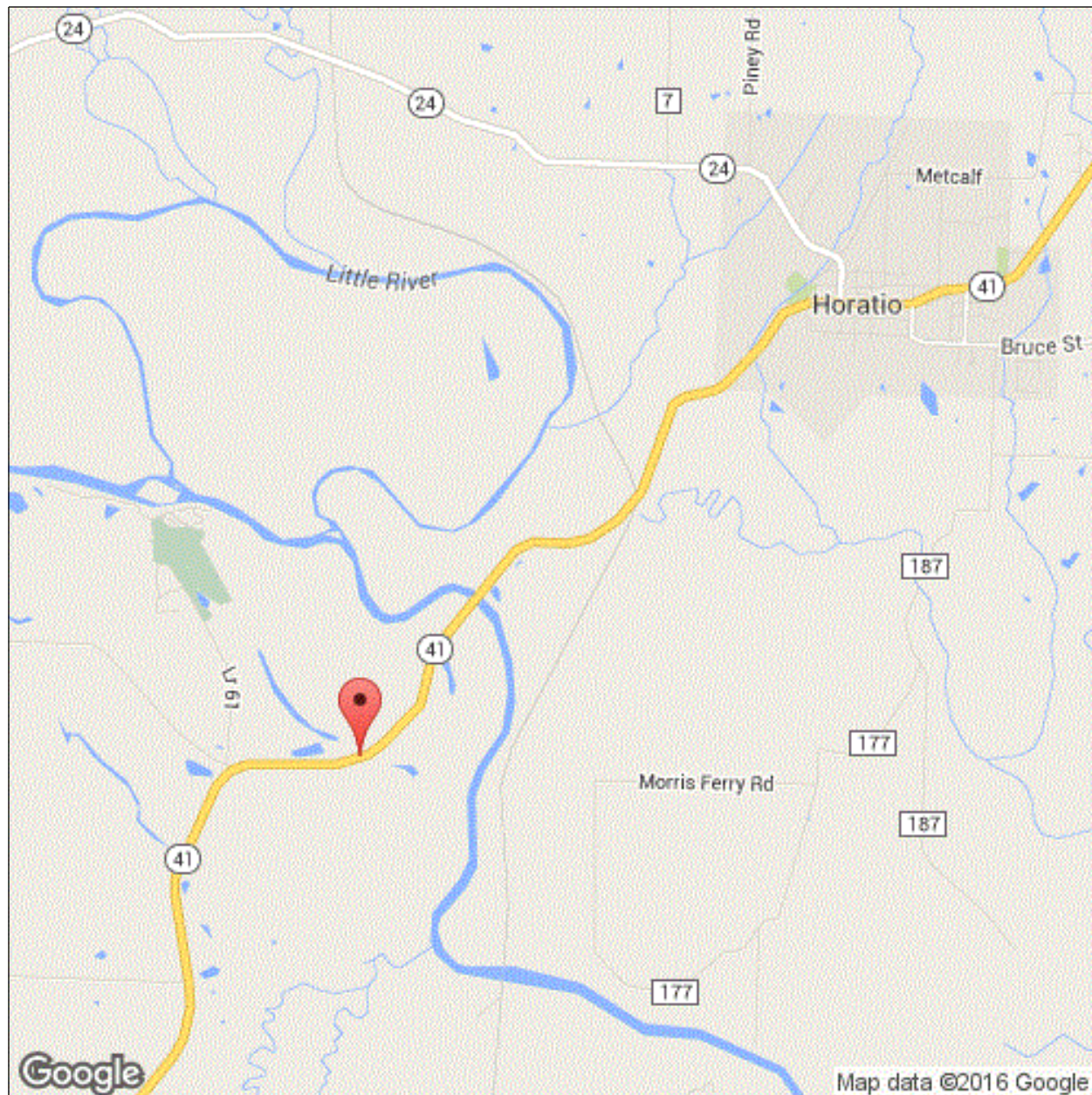
Structure Number: 05161

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Bridge Inspection Report

Location Map



Latitude: 33.90882433386922

Longitude: -94.39640229993398

Inspector:

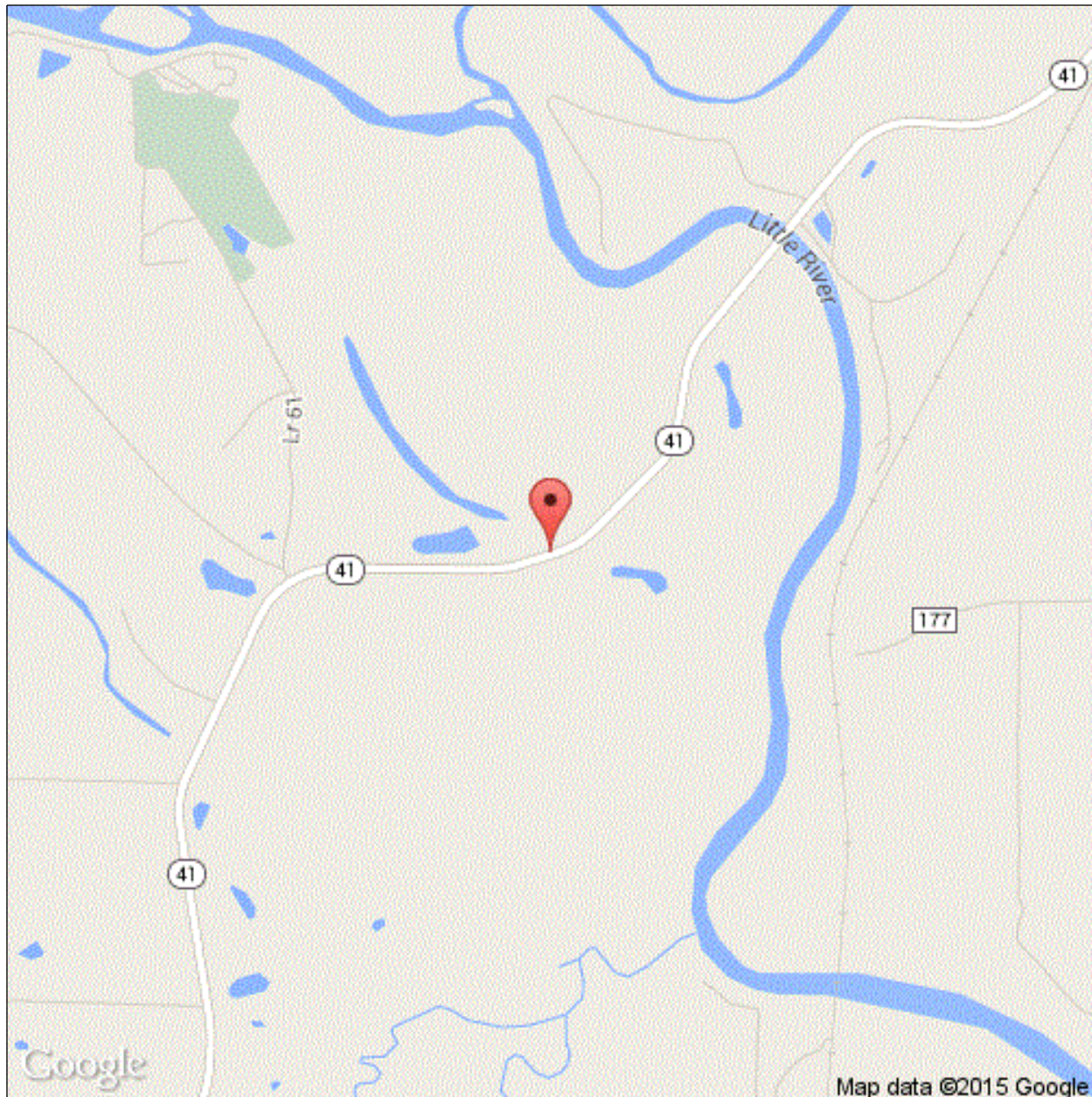
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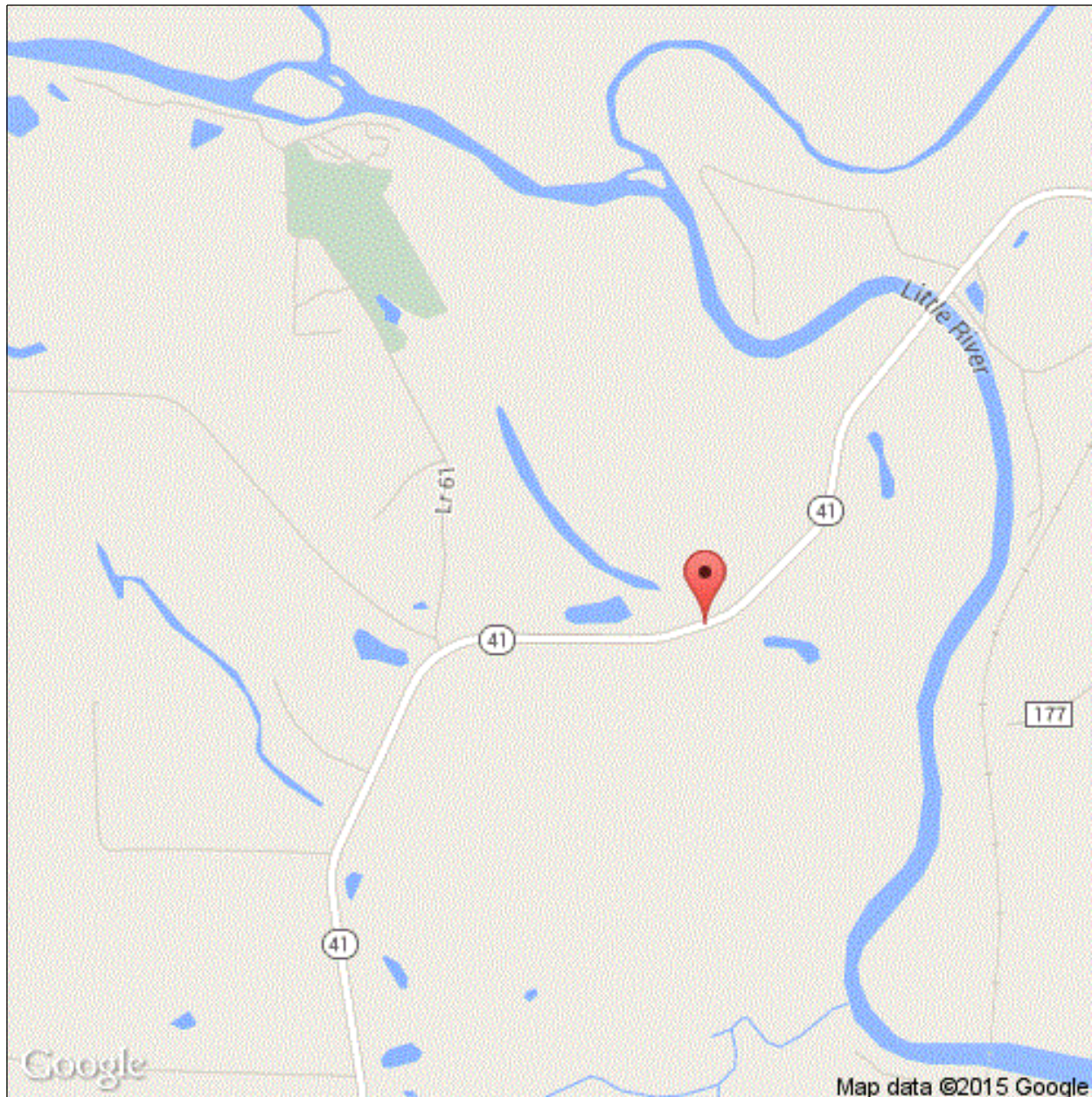
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Executive Summary

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National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	07/25/2018
(8) STRUCTURE NUMBER	05161	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 41 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	03 (3) COUNTY CODE 081	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	LITTLE RIVER RELIEF	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 41-SEC.02- 0.92		
(9) LOCATION	.92 MI S SEVIER CO LINE		
(11) MILEPOINT 0.920	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 33.	(17) LONGITUDE -94.39640229993398		
	90882433386922		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	6
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE	7
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(60) SUBSTRUCTURE	6
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	7
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN	5 (46) NUMBER OF APPROACH		
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE		
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION		
	0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1970 (106) YEAR RECONSTRUCTED	(31) DESIGN LOAD	5
(42) TYPE OF SERVICE	ON 1 UNDER 9	(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES	ON 02 UNDER 00	(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC	2500 (19) BYPASS DETOUR LENGTH	(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	1	(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	70 (49) STRUCTURE LENGTH (ft.)	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0.7 RIGHT 0.7	(68) DECK GEOMETRY	4
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	28.2	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	31.9	(71) WATERWAY ADEQUACY	7
(32) APPROACH ROADWAY WIDTH (ft.)	38.1	(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:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	28.9	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	75.1 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	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	06
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE	0000	(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT	2542 (115) YEAR OF FUTURE ADT	(103) TEMP STRUCTURE	
	2028	(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	0
		(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

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Element Inspection

Rollup

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	13717	sq. ft.	13717	0	0	0
107 - Steel Open Girder/Beam	1- Ben.	1250	ft.	1250	0	0	0
515 - Steel Protective Coating		9612	sq. ft.	9612	0	0	0
205 - Reinforced Concrete Column	1- Ben.	4	each	4	0	0	0
215 - Reinforced Concrete Abutment	1- Ben.	96	ft.	96	0	0	0
226 - Prestressed Concrete Pile	1- Ben.	10	each	10	0	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	204	ft.	197	6	1	0
1080 - Delamination/Spall/Patched Area		4		0	3	1	0
1090 - Exposed Rebar		3		0	3	0	0
300 - Strip Seal Expansion Joint	1- Ben.	192	ft.	180	0	12	0
2310 - Leakage		12		0	0	12	0
311 - Movable Bearing	1- Ben.	30	each	30	0	0	0
313 - Fixed Bearing	1- Ben.	30	each	30	0	0	0
330 - Metal Bridge Railing	1- Ben.	500	ft.	500	0	0	0

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Element Inspection

Main

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	2233	sq. ft.	2233			
107 - Steel Open Girder/Beam	1- Ben.	350	ft.	350			
515 - Steel Protective Coating		3429	sq. ft.	3429			
205 - Reinforced Concrete Column	1- Ben.	4	each	4			
234 - Reinforced Concrete Pier Cap	1- Ben.	68	ft.	64	4	0	0
	1 ft delam on bent 3 cap 3 ft of exposed rebar on bent 3 cap						
1080 - Delamination/Spall/Patched Area		1			1		
1090 - Exposed Rebar		3			3		
300 - Strip Seal Expansion Joint	1- Ben.	64	ft.	60	0	4	0
	2310- LEAKAGE ON ENDS OF JOINT OUTSIDE 1 FOOT OF EACH JOINT						
2310 - Leakage		4				4	
311 - Movable Bearing	1- Ben.	10	each	10			
313 - Fixed Bearing	1- Ben.	10	each	10			
330 - Metal Bridge Railing	1- Ben.	140	ft.	140			

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Element Inspection

APPROACH

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	11484	sq. ft.	11484			
107 - Steel Open Girder/Beam	1- Ben.	900	ft.	900			
515 - Steel Protective Coating		6183	sq. ft.	6183			
215 - Reinforced Concrete Abutment	1- Ben.	96	ft.	96			
226 - Prestressed Concrete Pile	1- Ben.	10	each	10			
234 - Reinforced Concrete Pier Cap	1- Ben.	136	ft.	133	2	1	0
2 ft delam on bent 2 cap							
1080 - Delamination/Spall/Patched Area		3			2	1	
300 - Strip Seal Expansion Joint	1- Ben.	128	ft.	120	0	8	0
2310- LEAKAGE ON ENDS OF JOINT OUTSIDE 1 FOOT OF EACH JOINT							
2310 - Leakage		8				8	
311 - Movable Bearing	1- Ben.	20	each	20			
313 - Fixed Bearing	1- Ben.	20	each	20			
330 - Metal Bridge Railing	1- Ben.	360	ft.	360			

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Pictures

PHOTO 2

Description

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Sketches

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Maintenance Needs

Date Reported: 9/11/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

CONCRETE CAP AT BT 5 HAS A SPALL ON BOTTOM OF CAP AT EACH END W/ REBAR EXPOSED.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Spalls on ends of bent 5 cap not visible due to vegetation