

Bridge Inspection Report

02657

**State Highway 28
over
Dailey Creek-Scott Co.**



Inspection Date:

Inspected By:

Inspection Type(s):

TABLE OF CONTENTS

	PAGE NUMBER
LOCATION MAP	3
NATIONAL BRIDGE INVENTORY	7
ELEMENTS	8
PICTURES	10
SKETCHES	11

Inspector:

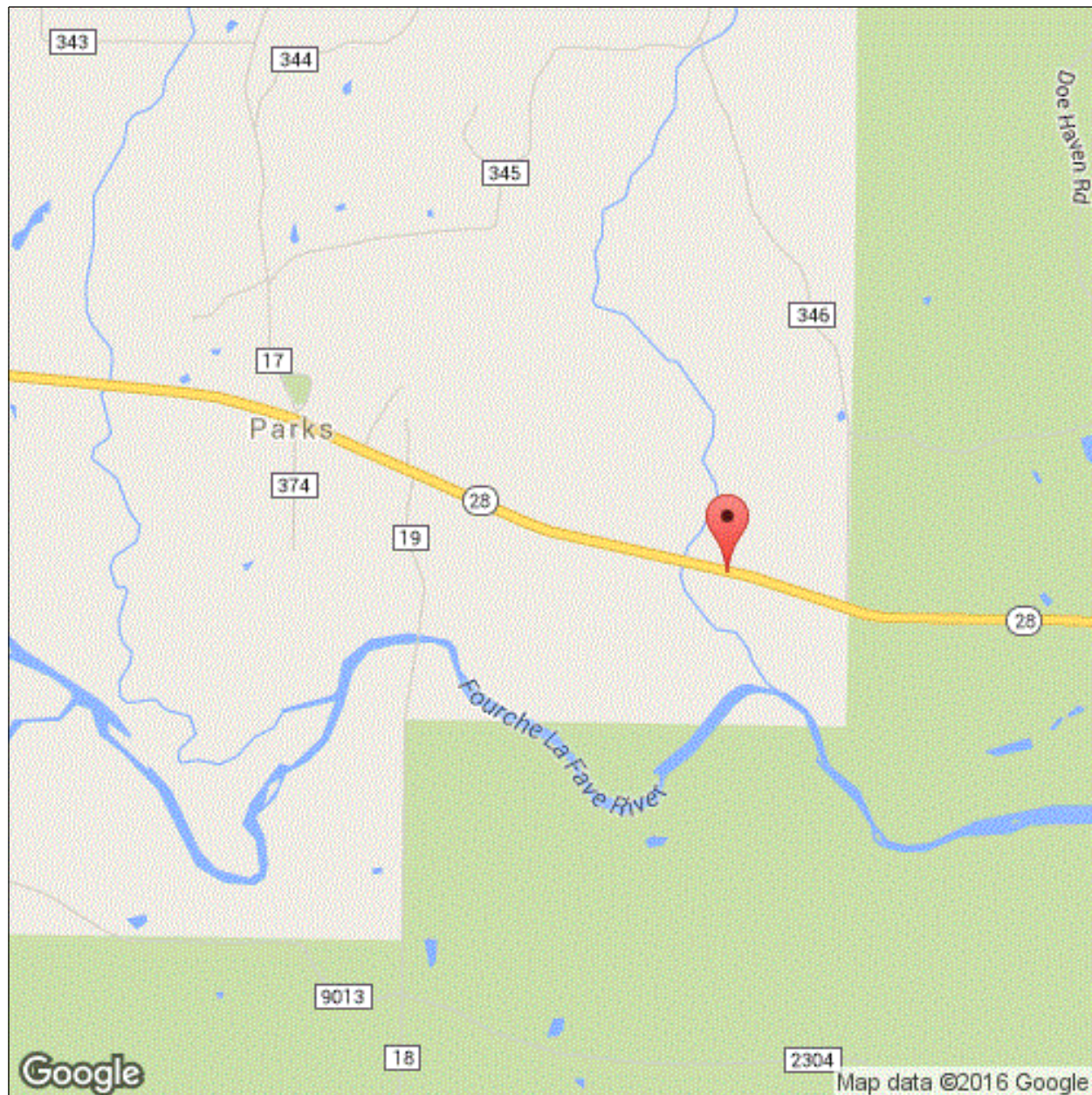
Structure Number: 02657

Inspection Date:

Facility Carried: State Highway 28

Bridge Inspection Report

Location Map



Latitude: 34.79741

Longitude: -93.94347

Inspector:

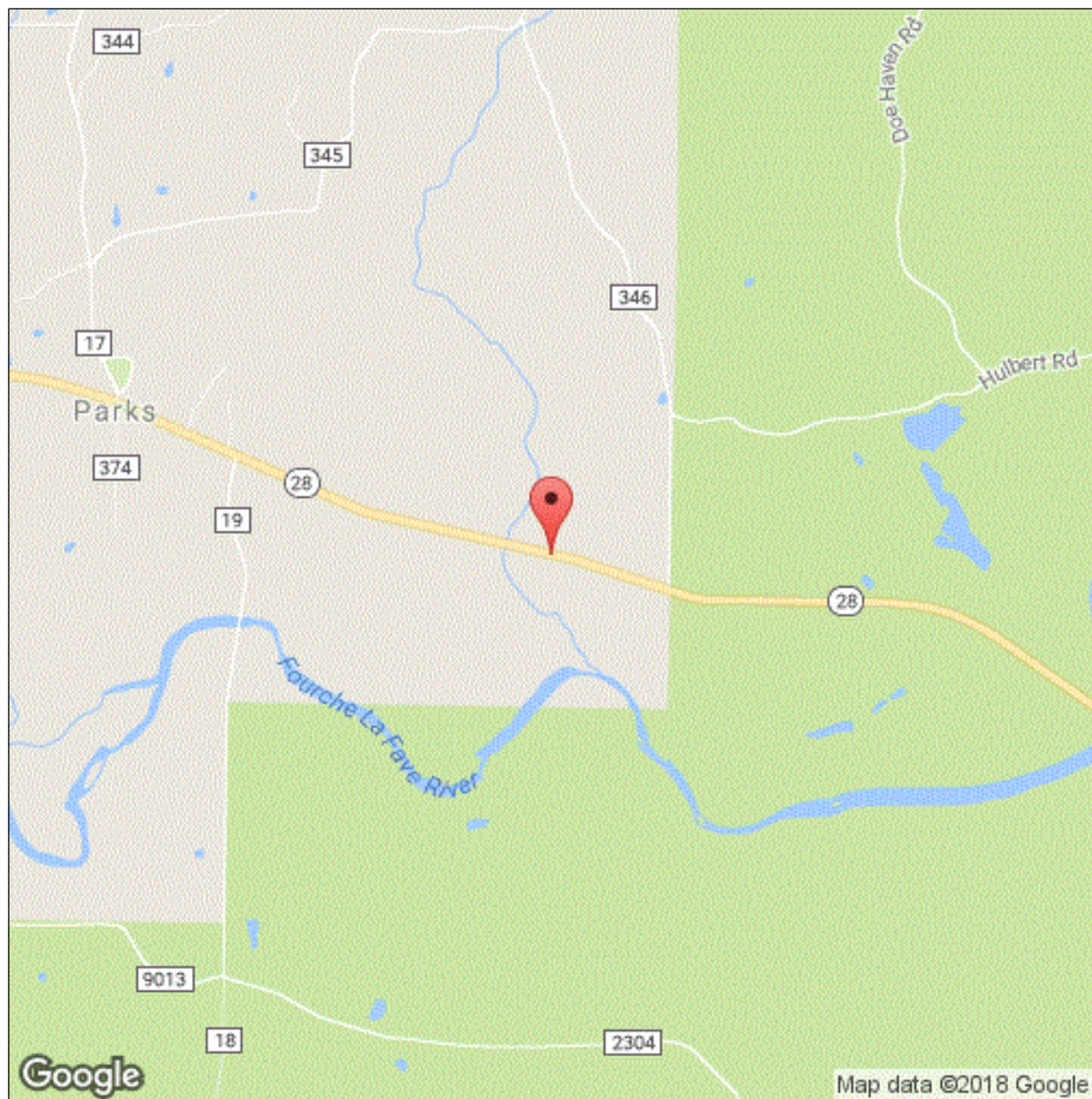
Structure Number: 02657

Inspection Date:

Facility Carried: State Highway 28

Bridge Inspection Report

Location Map



Latitude: 34.79741

Longitude: -93.94347

Inspector:

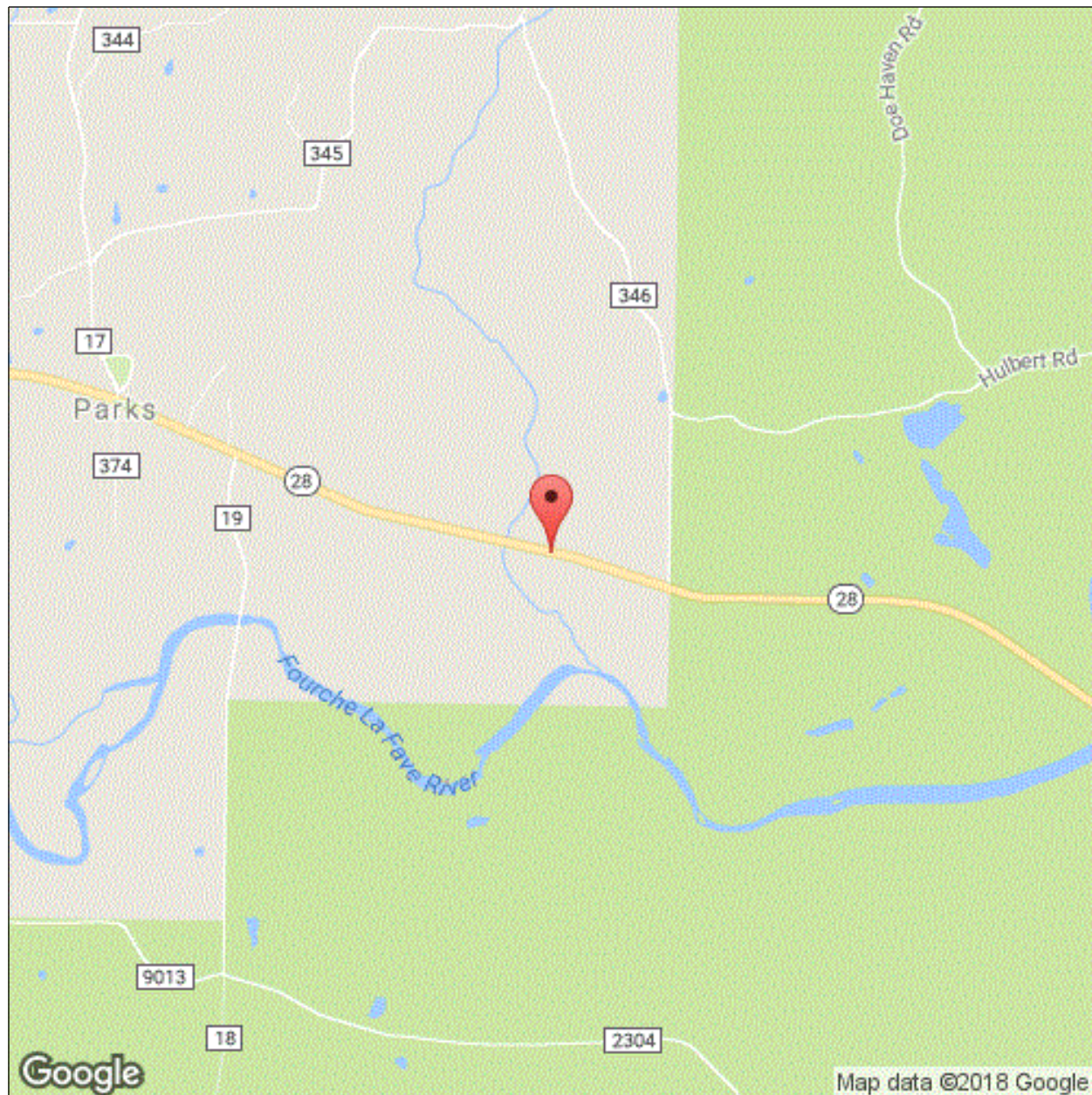
Structure Number: 02657

Inspection Date:

Facility Carried: State Highway 28

Bridge Inspection Report

Location Map



Latitude: 34.79741

Longitude: -93.94347

Inspector:

Structure Number: 02657

Inspection Date:

Facility Carried: State Highway 28

Bridge Inspection Report

Executive Summary

01/18/2018 EJW & JRT - Underwater Type 2 inspection conducted on this date. Wading and probing, with low water conditions. The base of the columns have medium/heavy abrasion and the footings have cover at this inspection. There is no apparent noteworthy undermining or scour at this inspection.

01/27/2016 JPB & RSM-Routine inspection conducted this date.

Inspector:

Structure Number: 02657

Inspection Date:

Facility Carried: State Highway 28

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	01/18/2018
(8) STRUCTURE NUMBER	02657	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 28 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	04 (3) COUNTY CODE 127	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Dailey Creek-Scott Co.	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	State Highway 28		
(9) LOCATION	5.64 MI E JCT OF US 71		
(11) MILEPOINT 5.639	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.79741	(17) LONGITUDE -93.94347		
(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: 1 - Concrete		(59) SUPERSTRUCTURE	6 (60) SUBSTRUCTURE 6
B) TYPE OF DESIGN/CONSTR: 01 - Slab		(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 6		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1950	(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	48.0
(29) AVERAGE DAILY TRAFFIC 280	(19) BYPASS DETOUR LENGTH 14	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	29.0
(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.) 18	(49) STRUCTURE LENGTH (ft.) 72	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1 RIGHT 1		(68) DECK GEOMETRY	4
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	22.0	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	24	(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.)	24.0	(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 0	(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.)	23.6	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	76.2 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	07
(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		(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 366	(115) YEAR OF FUTURE ADT 2028	(103) TEMP STRUCTURE	
		(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

Inspector:

Structure Number: 02657

Inspection Date:

Facility Carried: State Highway 28

Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
38 - Reinforced Concrete Slab	1- Ben.	2564	sq. ft.	2485	72	7	0
	-Concrete slab span with ACHM overlay. -Transverse cracks on the driving surface over the intermediate bent caps. -Spans 1, 2, and 3 have spalls around the drip grooves and deck drains that exposes the reinforcing steel with initial section loss. -Typical longitudinal cracking near the centerline of the spans						
1090 - Exposed Rebar		7				7	
1130 - Cracking (RC and Other)		72			72		
510 - Wearing Surfaces		1584	sq. ft.	1467	117	0	0
3220 - Crack (Wearing Surface)		117			117		
205 - Reinforced Concrete Column	1- Ben.	10	each	4	6	0	0
	-There is medium/heavy abrasion at the base of the columns. -Bent 2 right column has concrete deterioration						
1080 - Delamination/Spall/Patched Area		1			1		
1190 - Abrasion/Wear (PSC/RC)		5			5		
220 - Reinforced Concrete Pile Cap/Footing	1- Ben.	50	ft.	50			
	No apparent problems.						
234 - Reinforced Concrete Pier Cap	1- Ben.	150	ft.	136	10	4	0
	-The Span 3 side of the Rt side of Bent 3 cap has an 18" vertical spall with exposed reinforcing steel with initial section loss to the exposed reinforcing steel. -Water stains on the substructure caps indicate that the deck joints are leaking water. -Typical hairline vertical cracking along the caps.						
1080 - Delamination/Spall/Patched Area		2				2	
1090 - Exposed Rebar		2				2	
1130 - Cracking (RC and Other)		10			10		
330 - Metal Bridge Railing	1- Ben.	144	ft.	0	144	0	0
	-The metal rail has a failing paint system with rust showing through out the railing.. -The metal railing is missing one bolt on the northwest end adjacent to Bent #2 -The concrete end post of the bridge railing on the Northeast side is cracked and spalled showing exposed reinforcing steel from apparent collision damage.						
1000 - Corrosion		142			142		
1010 - Cracking		1			1		
7000 - Damage		1			1		
515 - Steel Protective Coating		288	sq. ft.	0	0	288	0

Inspector:

Structure Number: 02657

Inspection Date:

Facility Carried: State Highway 28

Bridge Inspection Report

Element Inspection

3440 - Effectiveness (Steel Protective Coatings)		288				288	
--	--	-----	--	--	--	-----	--

Inspector:

Inspection Date:

Structure Number: 02657

Facility Carried: State Highway 28

Bridge Inspection Report

Pictures

PHOTO 1

Description

PHOTO 2

Description

Inspector:

Inspection Date:

Structure Number: 02657

Facility Carried: State Highway 28

Bridge Inspection Report

Sketches

Inspector:

Structure Number: 02657

Inspection Date:

Facility Carried: State Highway 28

Bridge Inspection Report

Maintenance Needs

Date Reported: 1/30/2014 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Driving Surface:

The asphalt driving surface is breaking apart over the intermediate bents. The deck joint seals appear to leak water on the caps.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description

Stage: Assigned



PHOTO 2 Description

Inspector:

Structure Number: 02657

Inspection Date:

Facility Carried: State Highway 28

Bridge Inspection Report

Maintenance Needs

Date Reported: 01/18/2018

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Metal Bridge Railing:

The concrete end post of the bridge railing on the Northeast side is cracked and spalled showing exposed reinforcing steel from apparent collision damage.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

Inspector:

Structure Number: 02657

Inspection Date:

Facility Carried: State Highway 28

Bridge Inspection Report

Maintenance Needs

Date Reported: 01/18/2018

Priority: D - Routine

Work Code:

Deficiency Description:

R.C. Slab:

There are spalls exposing the reinforcing steel with initial section loss.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

Stage: Open



PHOTO 2 Description