

Bridge Inspection Report

05061
US 371 SEC 4 -3.00
over
I 30- SEC-13- 43.95



Inspection Date:

Inspected By:

Inspection Type(s):

TABLE OF CONTENTS

	PAGE NUMBER
LOCATION MAP	3
NATIONAL BRIDGE INVENTORY	7
ELEMENTS	8
PICTURES	11
SKETCHES	12

Inspector:

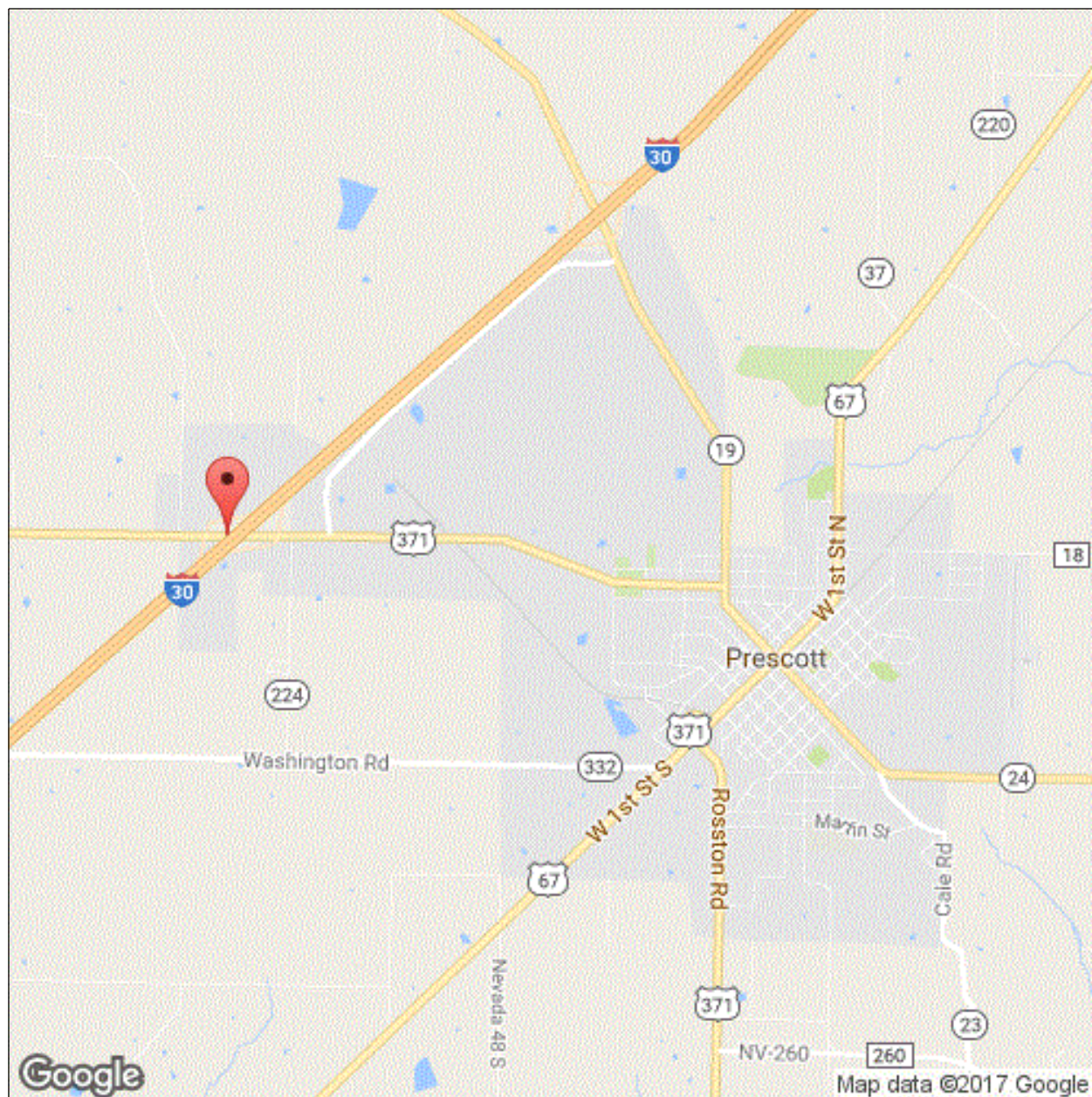
Structure Number: 05061

Inspection Date:

Facility Carried: US 371 SEC 4 -3.00

Bridge Inspection Report

Location Map



Latitude: 33.810463

Longitude: -93.424362

Inspector:

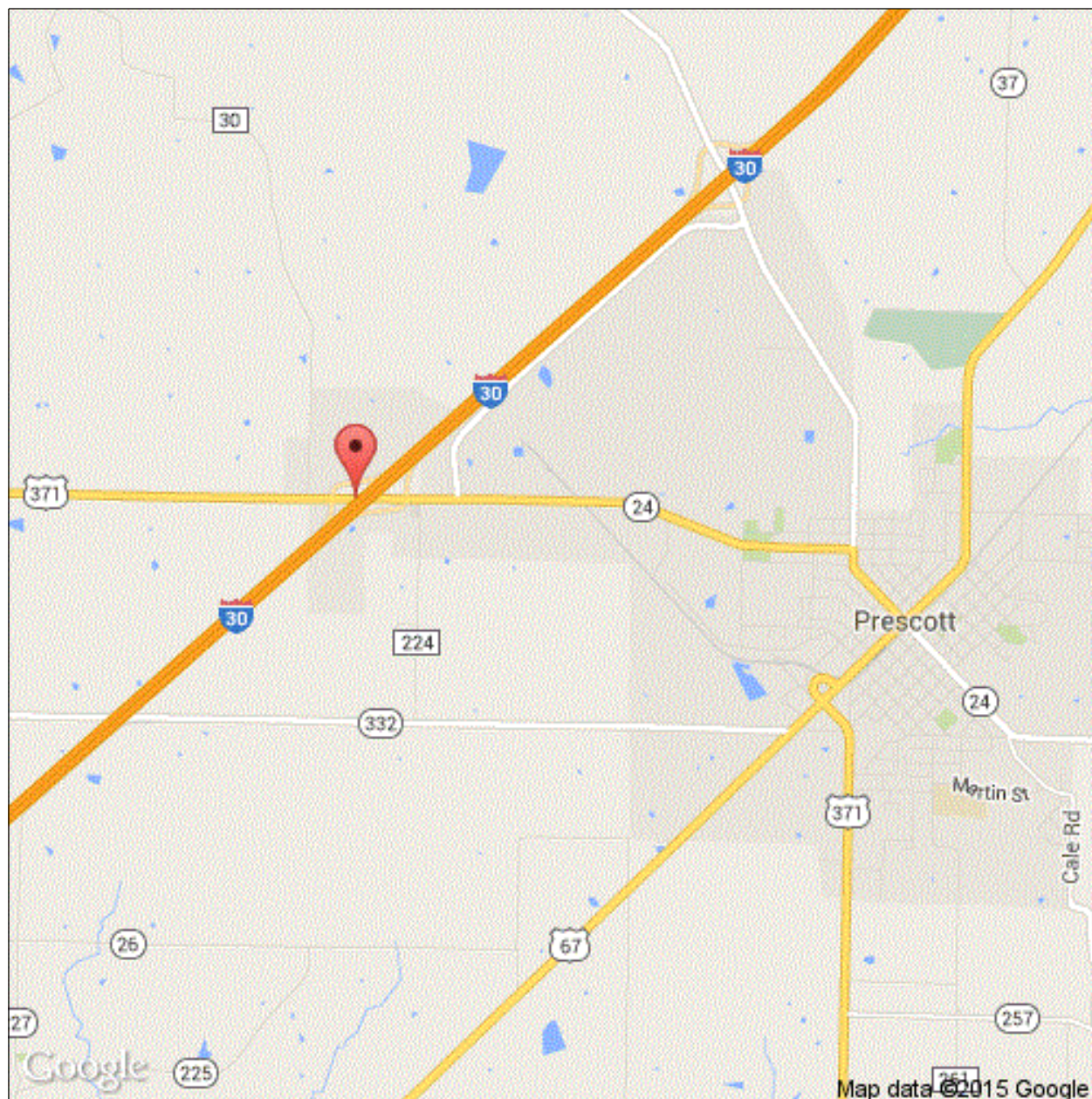
Structure Number: 05061

Inspection Date:

Facility Carried: US 371 SEC 4 -3.00

Bridge Inspection Report

Location Map



Latitude: 33.810463

Longitude: -93.424362

Inspector:

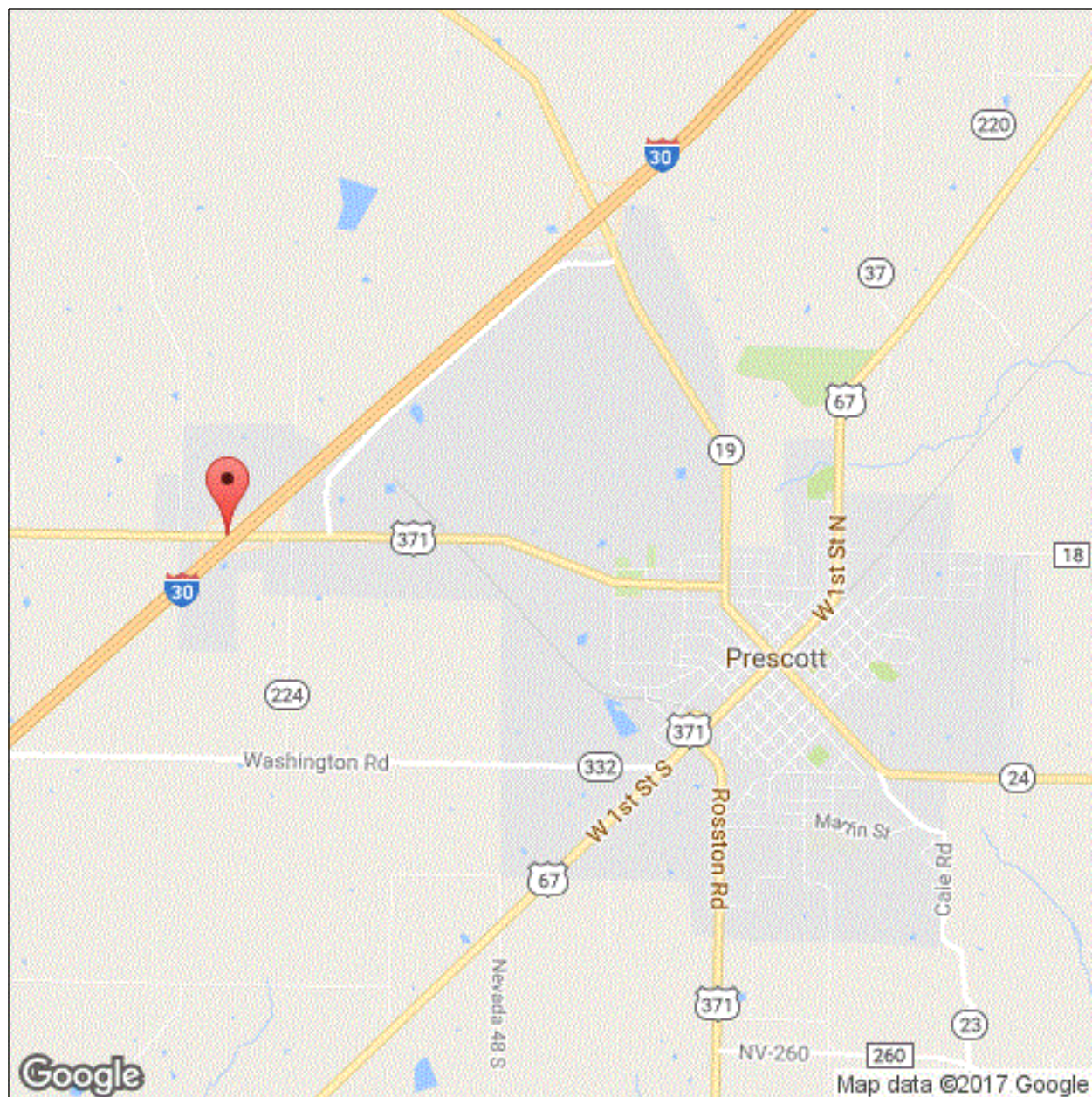
Structure Number: 05061

Inspection Date:

Facility Carried: US 371 SEC 4 -3.00

Bridge Inspection Report

Location Map



Latitude: 33.810463

Longitude: -93.424362

Inspector:

Inspection Date:

Structure Number: 05061

Facility Carried: US 371 SEC 4 -3.00

Bridge Inspection Report

Executive Summary

Inspector:

Structure Number: 05061

Inspection Date:

Facility Carried: US 371 SEC 4 -3.00

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	06/28/2017
(8) STRUCTURE NUMBER	05061	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 371 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	03	(3) COUNTY CODE	099
(4) PLACE CODE	55100	A. FRACTURE CRITICAL DETAIL	N
(6) FEATURES INTERSECTED	I 30- SEC-13- 43.95	B. UNDERWATER INSPECTION	N
(7) FACILITY CARRIED	US 371 SEC 4 -3.00	C. OTHER SPECIAL	N
(9) LOCATION	JCT HWY 371 & I-30		
(11) MILEPOINT	3.000	(12) BASE HIGHWAY NETWORK	0
(13A) LRS INVENTORY ROUTE	0000000000	(13B) SUBROUTE NUMBER	00
(16) LATITUDE	33.810463	(17) LONGITUDE	-93.424362
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	5
A) KIND OF MATERIAL/DESIGN:	4 - Steel continuous	(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	N
A) KIND OF MATERIAL/DESIGN:	3 - Steel	(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder		
(45) NUMBER OF SPANS IN MAIN	3	(46) NUMBER OF APPROACH	2
(107) DECK STRUCTURE TYPE	1	(108A) WEARING SURFACE	1
(108B) DECK MEMBRANE	0	(108C) DECK PROTECTION	0
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1968	(106) YEAR RECONSTRUCTED	0000
(42) TYPE OF SERVICE	ON 1 UNDER 1	(31) DESIGN LOAD	5
(28) LANES	ON 02 UNDER 04	(63) METHOD USED TO DETERMINE OPERATING RATING	2
(29) AVERAGE DAILY TRAFFIC	1600	(64) OPERATING RATING	60
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(65) METHOD USED TO DETERMINE INVENTORY RATING	2
(109) AVERAGE DAILY TRUCK TRAFFIC	1	(66) INVENTORY RATING	36
		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	130	(49) STRUCTURE LENGTH (ft.)	489
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0.5 RIGHT 0.5	(67) STRUCTURAL EVALUATION	6
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	39.0	(68) DECK GEOMETRY	6
(52) DECK WIDTH, OUT-TO-OUT (ft.)	42.3	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	5
(32) APPROACH ROADWAY WIDTH (ft.)	40.0	(71) WATERWAY ADEQUACY	N
(33) BRIDGE MEDIAN	0	(34) SKEW (DEG.)	42
(35) STRUCTURE FLARED	0	(10) INV RTE, MIN VERT CLEAR (ft.)	99.99
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	39.7	(113) SCOUR CRITICAL BRIDGES	N
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	SUFFICIENCY RATING	97.5
(54) VERTICAL UNDER CLEARANCE (ft.)	H 16.25	STATUS	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H 29.7	CLASSIFICATION	
(56) MIN LATERAL UNDER CLEARANCE (ft.)	29.8	(112) NBIS BRIDGE LENGTH	Y
		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
		(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	07
		(100) STRAHNET HIGHWAY DESIGNATION	0
		(101) PARALLEL STRUCTURE DESIGNATION	N
		(102) DIRECTION OF TRAFFIC	2
		(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
PROPOSED IMPROVEMENTS		NAVIGATION DATA	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(38) NAVIGATION CONTROL	N
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0	(111) PIER OR ABUTMENT PROTECTION	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(39) NAV VERT CLEARANCE (ft.)	0
(95) ROADWAY IMPROVEMENT COST (\$)	0	(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
(96) TOTAL PROJECT COST	0	(40) NAV HORIZONTAL CLEARANCE (ft.)	0
(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(114) FUTURE ADT	1749	(115) YEAR OF FUTURE ADT	2028

Inspector:

Structure Number: 05061

Inspection Date:

Facility Carried: US 371 SEC 4 -3.00

Bridge Inspection Report

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.	20677	sq. ft.	18341	2164	172	0
1080 - Delamination/Spall/Patched Area		967		0	795	172	0
1090 - Exposed Rebar		1		0	1	0	0
1120 - Efflorescence/Rust Staining		736		0	736	0	0
1130 - Cracking (RC and Other)		620		0	620	0	0
107 - Steel Open Girder/Beam	1- Ben.	2934	ft.	2934	0	0	0
515 - Steel Protective Coating		26112	sq. ft.	10112	16000	0	0
3410 - Chalking (Steel Protective Coatings)		4000		0	4000	0	0
3430 - Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)		12000		0	12000	0	0
205 - Reinforced Concrete Column	1- Ben.	12	each	10	1	1	0
1080 - Delamination/Spall/Patched Area		2		0	1	1	0
234 - Reinforced Concrete Pier Cap	1- Ben.	234	ft.	171	30	33	0
1080 - Delamination/Spall/Patched Area		40		0	30	10	0
1090 - Exposed Rebar		17		0	0	17	0
1130 - Cracking (RC and Other)		6		0	0	6	0
302 - Compression Joint Seal	1- Ben.	84	ft.	84	0	0	0
303 - Assembly Joint with Seal	1- Ben.	84	ft.	84	0	0	0
311 - Movable Bearing	1- Ben.	30	each	30	0	0	0
515 - Steel Protective Coating		215	sq. ft.	0	46	169	0
3410 - Chalking (Steel Protective Coatings)		120		0	0	120	0
3430 - Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)		46		0	46	0	0
3440 - Effectiveness (Steel Protective Coatings)		49		0	0	49	0
313 - Fixed Bearing	1- Ben.	18	each	18	0	0	0
515 - Steel Protective Coating		129	sq. ft.	0	46	83	0
3410 - Chalking (Steel Protective Coatings)		65		0	0	65	0
3430 - Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)		46		0	46	0	0
3440 - Effectiveness (Steel Protective Coatings)		18		0	0	18	0
321 - Reinforced Concrete Approach Slab	1- Ben.	2940	sq. ft.	2940	0	0	0
1130 - Cracking (RC and Other)		0		0	0	0	0
330 - Metal Bridge Railing	1- Ben.	836	ft.	836	0	0	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	836	ft.	834	2	0	0

Inspector:

Structure Number: 05061

Inspection Date:

Facility Carried: US 371 SEC 4 -3.00

Bridge Inspection Report

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.	5943	sq. ft.	5856	87		
cracks in deck were sealed little or no change.							

1080 - Delamination/Spall/Patched Area		12			12		
1130 - Cracking (RC and Other)		75			75		
107 - Steel Open Girder/Beam	1- Ben.	828	ft.	828			
515 - Steel Protective Coating		7369	sq. ft.	369	7000		
3410 - Chalking (Steel Protective Coatings)		4000			4000		
3430 - Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)		3000			3000		
234 - Reinforced Concrete Pier Cap	1- Ben.	78	ft.	78			
302 - Compression Joint Seal	1- Ben.	84	ft.	84			
311 - Movable Bearing	1- Ben.	12	each	12			
515 - Steel Protective Coating		86	sq. ft.	0	46	40	0
3410 - Chalking (Steel Protective Coatings)		40				40	
3430 - Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)		46			46		
313 - Fixed Bearing	1- Ben.	12	each	12			
515 - Steel Protective Coating		86	sq. ft.	0	46	40	0
3410 - Chalking (Steel Protective Coatings)		40				40	
3430 - Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)		46			46		
321 - Reinforced Concrete Approach Slab	1- Ben.	2940	sq. ft.	2940			0
sealed cracks cond. state 1							

1130 - Cracking (RC and Other)							
330 - Metal Bridge Railing	1- Ben.	140	ft.	140			
331 - Reinforced Concrete Bridge Railing	1- Ben.	140	ft.	140			

Inspector:

Structure Number: 05061

Inspection Date:

Facility Carried: US 371 SEC 4 -3.00

Bridge Inspection Report

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.	14734	sq. ft.	12485	2077	172	
1130 deck cracking --deck cracks sealed and under condition 1							

1080 - Delamination/Spall/Patched Area		967			795	172	
1090 - Exposed Rebar		1			1		
1120 - Efflorescence/Rust Staining		736			736		
1130 - Cracking (RC and Other)		545			545		
107 - Steel Open Girder/Beam	1- Ben.	2106	ft.	2106			
515 - Steel Protective Coating		18743	sq. ft.	9743	9000		0
3430 - Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)		9000			9000		
205 - Reinforced Concrete Column	1- Ben.	12	each	10	1	1	
1080 - Delamination/Spall/Patched Area		2			1	1	
234 - Reinforced Concrete Pier Cap	1- Ben.	156	ft.	93	30	33	0
1080 - Delamination/Spall/Patched Area		40			30	10	
1090 - Exposed Rebar		17				17	
1130 - Cracking (RC and Other)		6				6	
303 - Assembly Joint with Seal	1- Ben.	84	ft.	84			
311 - Movable Bearing	1- Ben.	18	each	18			
515 - Steel Protective Coating		129	sq. ft.	0		129	0
3410 - Chalking (Steel Protective Coatings)		80				80	
3440 - Effectiveness (Steel Protective Coatings)		49				49	
313 - Fixed Bearing	1- Ben.	6	each	6			
515 - Steel Protective Coating		43	sq. ft.	0		43	0
3410 - Chalking (Steel Protective Coatings)		25				25	
3440 - Effectiveness (Steel Protective Coatings)		18				18	
330 - Metal Bridge Railing	1- Ben.	696	ft.	696			
331 - Reinforced Concrete Bridge Railing	1- Ben.	696	ft.	694	2		
Span 3 RT side							

7000 - Damage		2			2		
---------------	--	---	--	--	---	--	--

Inspector:

Inspection Date:

Structure Number: 05061

Facility Carried: US 371 SEC 4 -3.00

Bridge Inspection Report

Pictures

Inspector:

Inspection Date:

Structure Number: 05061

Facility Carried: US 371 SEC 4 -3.00

Bridge Inspection Report

Sketches

Inspector:

Structure Number: 05061

Inspection Date:

Facility Carried: US 371 SEC 4 -3.00

Bridge Inspection Report

Maintenance Needs

Date Reported: 7/18/2011 12:00:00 AM

Priority: D - Routine

Work Code: Repair

Deficiency Description:
CONCRETE CAP

BENT #5 @ BOTTOM AND
BOTH FACES OF CAP SPALLS W/ REBAR EXPOSED, SOME SECTION LOSS TO REBAR. COLUMN 1 SPALL WITH
REBAR EXPOSED.

BT.5 SOME VERTICAL CRACKS IN CAP BETWEEN BEAMS 3 & 4
AND ON RIGHT SIDE CAP ABOVE COLUMN 3

Work Description:

Date Repairs Completed: 06/28/2017

Maintenance Comments:

Repairs done per this inspection.

Stage: Assigned



PHOTO 1 Description BT 5 DELAM, SPALL, REBAR EXPOSED

Stage: Assigned



PHOTO 2 Description BT 5 spall rebar exposed ,small delam

Inspector:

Inspection Date:

Structure Number: 05061

Facility Carried: US 371 SEC 4 -3.00

Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description CRACKING AT BT 5 CAP PHOTO AT
BM 3

Inspector:

Structure Number: 05061

Inspection Date:

Facility Carried: US 371 SEC 4 -3.00

Bridge Inspection Report

Maintenance Needs

Date Reported: 7/18/2011 12:00:00 AM

Priority: D - Routine

Work Code: Repair

Deficiency Description:

CONCRETE COLUMN AND CAP AT
BENT #2, COLUMN #1 COLUMN AND CAP HAVE VERTICAL & HORIZONTAL CRACKS. IN SIZE FROM 0.005 TO
0.035

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Patch area BT 2 cap

Stage: Assigned

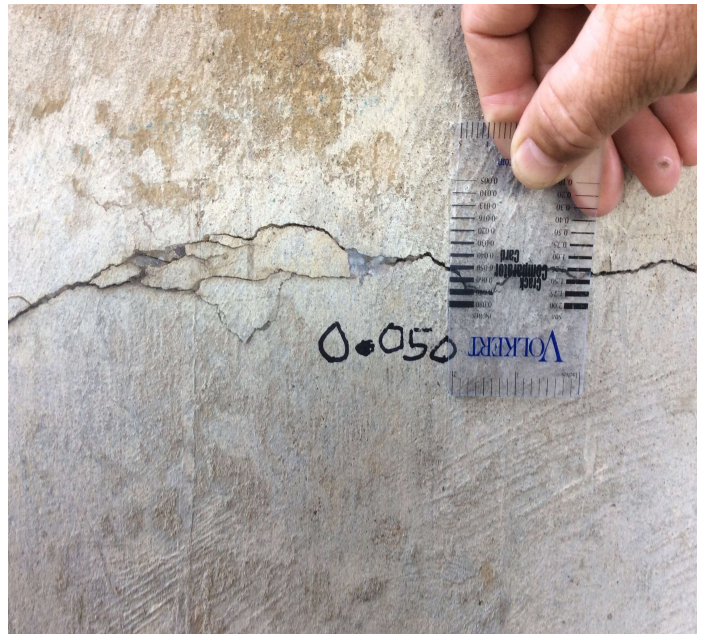


PHOTO 2 Description BT 2 column 1 horz crack.

Inspector:

Structure Number: 05061

Inspection Date:

Facility Carried: US 371 SEC 4 -3.00

Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description BT 2 column 1 horz crack.

Stage: Assigned



PHOTO 4 Description BT 2 column 1 delam cracks

Inspector:

Structure Number: 05061

Inspection Date:

Facility Carried: US 371 SEC 4 -3.00

Bridge Inspection Report

Maintenance Needs

Date Reported: 06/28/2017

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Sealable Deck Cracks all Spans

Work Description:

Date Repairs Completed:

Maintenance Comments:

AMS will handle.

Stage: Open



PHOTO 1 Description Sealable deck cracks all spans