

Bridge Inspection Report

B6043

I-555-02NB-LM22.96

over

CR 266-C- DITCH 23



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

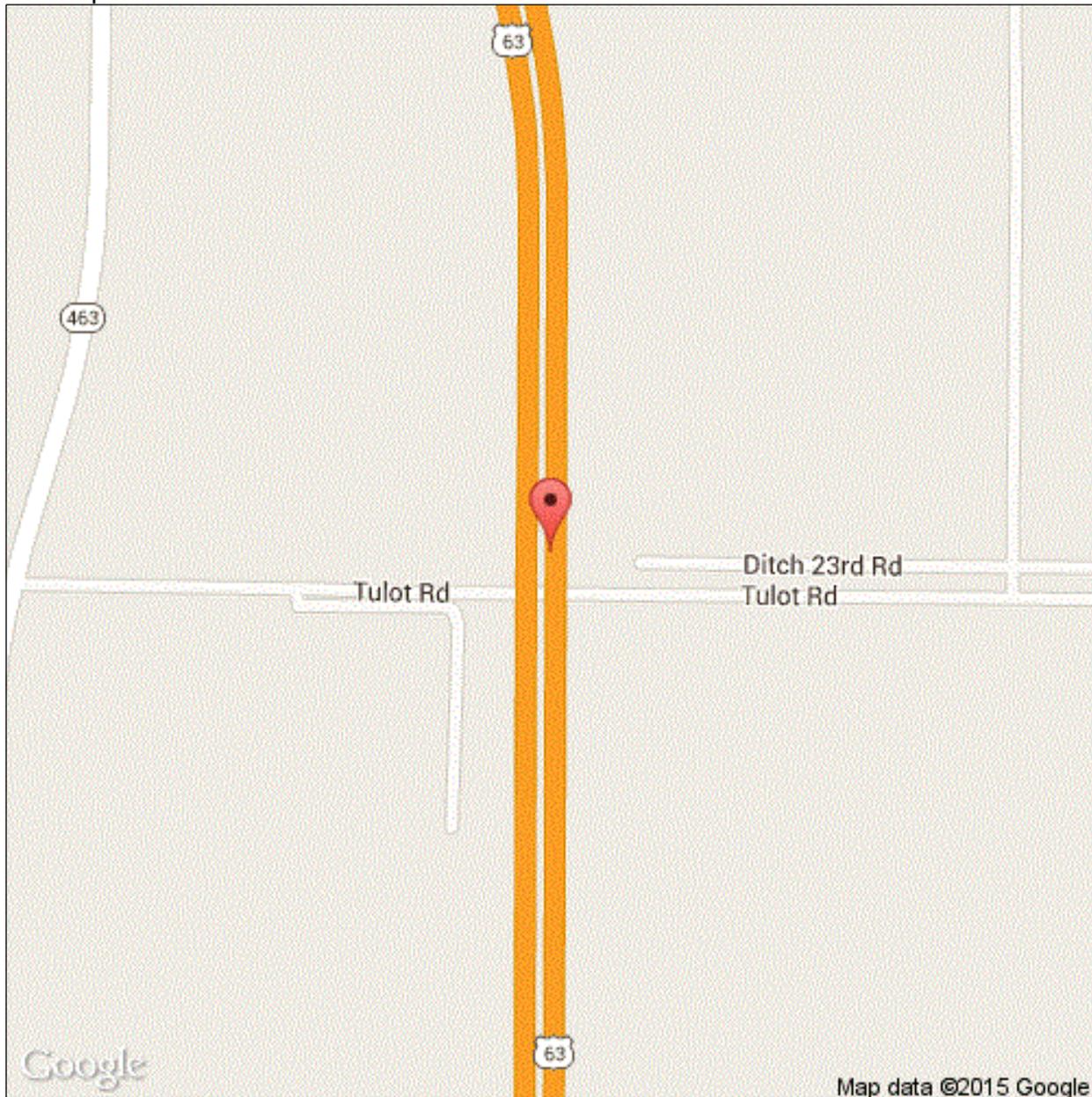
Inspection Date:

Structure Number: B6043

Facility Carried: I-555-02NB-
LM22.96

Bridge Inspection Report

Location Map



Latitude: 35.62021
Longitude: -90.49647

Inspector:

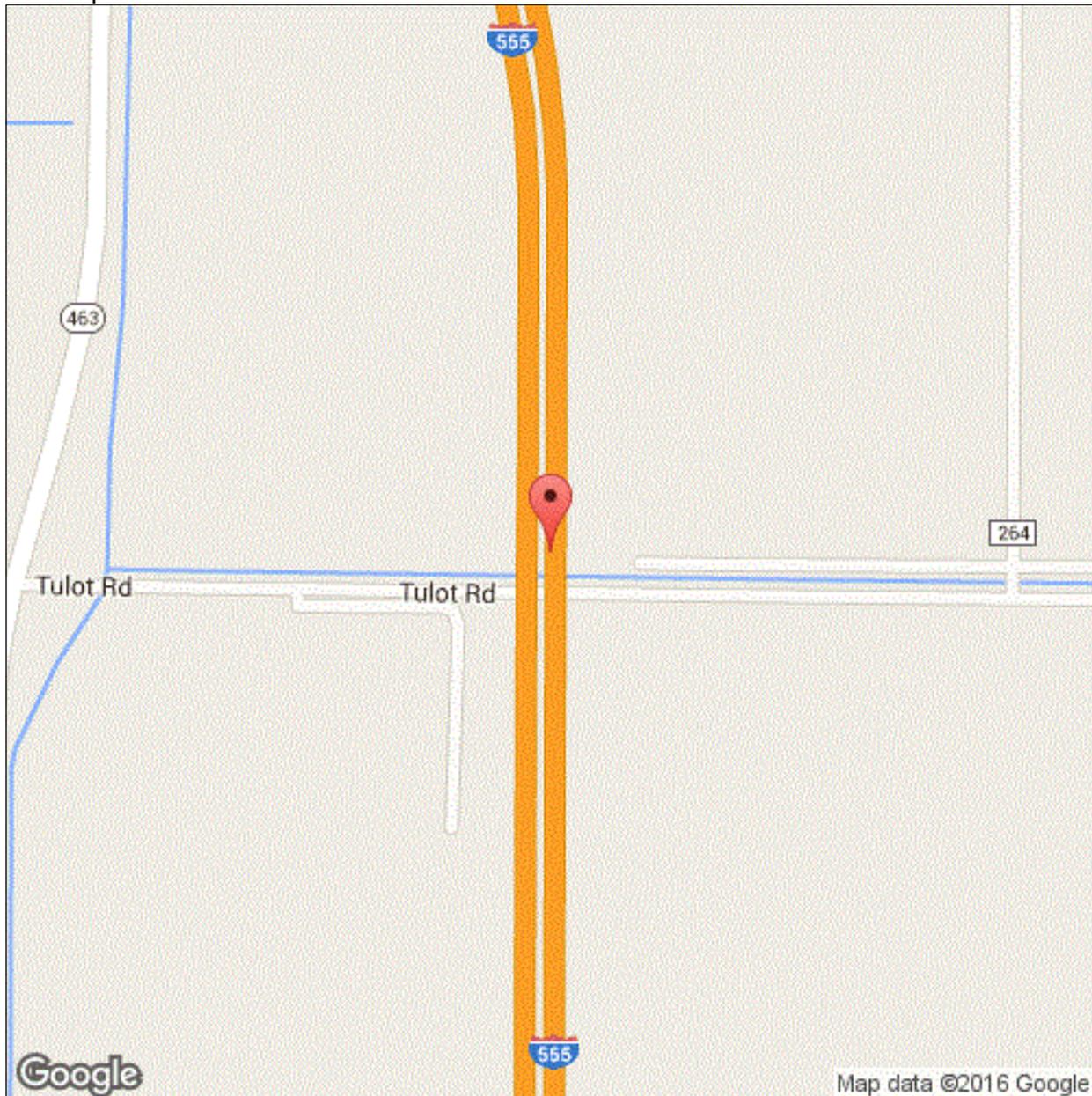
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Location Map



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Bridge Inspection Report

Executive Summary

B6043 Inspection Notes

4-20-2016 TJM

Item 7 has been changed from US 63 to I-555

New Approach Guard Rail and End Post have been reconstructed making changes to item 47.

Top of Deck has a few cracks with a few spalls filled with asphalt, approximately 6 sq.ft. total.

Bottom of Deck has some cracking with light efflorescence, especially at construction joints.

Bent 1 Compression Seal has 40ft. that has fallen out and Road Iron broke and rattling.

Bent 4 Compression Seal has 14ft. missing and 18ft. of road iron removed.

Majority of Girders have freckled rust 3 typical.

Bottom of splices are beginning to show areas of rust.

Rubber Bearing Pads Bents 2 & 3 is beginning to crack and deteriorate.

Bents 2 & 3 Caps have insignificant vertical cracks.

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North East Corner, Left side of Bent 1, Concrete Slope Protection has settled up to 12in. with approximately 6ft. deep void under concrete near cap, see 2016 photo.

Span 2 has small trees and brush under bridge.

Minimum clearance verified 2016 inspection

Inspector:

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION				INSPECTIONS				
(1) STATE CODE	056 - Arkansas			(90) INSPECTION DATE	04/20/2016			
(8) STRUCTURE NUMBER	B6043			(91) DESIGNATED INSPECTION FREQUENCY	24			
(5) INV. ROUTE (ON/UNDER)	1	1	1	555	1	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE	
(2) HIGHWAY AGENCY	10	(3) COUNTY CODE	111		A. FRACTURE CRITICAL DETAIL	N		
(4) PLACE CODE	00000			B. UNDERWATER INSPECTION	N			
(6) FEATURES INTERSECTED	CR 266-C- DITCH 23			C. OTHER SPECIAL	N			
(7) FACILITY CARRIED	I-555-02NB-LM22.96			CONDITION				
(9) LOCATION	E SH 463 & CO RD 266			(58) DECK	7			
(11) MILEPOINT	22.96	(12) BASE HIGHWAY NETWORK	1		(59) SUPERSTRUCTURE	7	(60) SUBSTRUCTURE	8
(13A) LRS INVENTORY ROUTE	0000063080	(13B) SUBROUTE NUMBER	00		(61) CHANNEL & CHANNEL PROTECTION	8	(62) CULVERT	N
(16) LATITUDE	35.62021	(17) LONGITUDE	-90.49647		LOAD RATING AND POSTING			
(98A) BORDER BRIDGE CODE				(31) DESIGN LOAD	6			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT			(63) METHOD USED TO DETERMINE OPERATING RATING	1			
STRUCTURE TYPE AND MATERIAL				(64) OPERATING RATING	60.0			
(43) STRUCTURE TYPE, MAIN				(65) METHOD USED TO DETERMINE INVENTORY RATING	1			
A) KIND OF MATERIAL/DESIGN:	4 - Steel continuous			(66) INVENTORY RATING	36.0			
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder			(70) BRIDGE POSTING	5			
(44) STRUCTURE TYPE, APPROACH SPANS				(41) STRUCTURE OPEN/POSTED/CLOSED	A			
A) KIND OF MATERIAL/DESIGN:	0 - Other			APPRAISAL				
B) TYPE OF DESIGN/CONSTR:	00 - Other			(67) STRUCTURAL EVALUATION	7			
(45) NUMBER OF SPANS IN MAIN	3	(46) NUMBER OF APPROACH	0		(68) DECK GEOMETRY	7		
(107) DECK STRUCTURE TYPE	1	(108A) WEARING SURFACE	1		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	3		
(108B) DECK MEMBRANE	0	(108C) DECK PROTECTION	0		(71) WATERWAY ADEQUACY	8		
AGE OF SERVICE				(72) APPROACH ROADWAY ALIGNMENT	8			
(27) YEAR BUILT	1984	(106) YEAR RECONSTRUCTED	0000		(36) TRAFFIC SAFETY FEATURE			
(42) TYPE OF SERVICE	ON 1	UNDER	6		36A) BRIDGE RAILINGS:	1		
(28) LANES	ON 02	UNDER	02		36B) TRANSITIONS:	1		
(29) AVERAGE DAILY TRAFFIC	13000	(19) BYPASS DETOUR LENGTH	1		36C) APPROACH GUARDRAIL:	1		
(30) YEAR OF AVERAGE DAILY TRAFFIC	2013			36D) APPROACH GUARDRAIL ENDS:	1			
(109) AVERAGE DAILY TRUCK TRAFFIC	1			(113) SCOUR CRITICAL BRIDGES	5			
GEOMETRIC DATA				SUFFICIENCY RATING	2	STATUS	92.7	
(48) LENGTH OF MAX SPAN (ft.)	91	(49) STRUCTURE LENGTH (ft.)	195		CLASSIFICATION			
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0	RIGHT	0		(112) NBIS BRIDGE LENGTH	Y		
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	40.0			(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1			
(52) DECK WIDTH, OUT-TO-OUT (ft.)	42.8			(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	01			
(32) APPROACH ROADWAY WIDTH (ft.)	40.0			(100) STRAHNET HIGHWAY DESIGNATION	1			
(33) BRIDGE MEDIAN	0	(34) SKEW (DEG.)	0		(101) PARALLEL STRUCTURE DESIGNATION	L		
(35) STRUCTURE FLARED	0	(10) INV RTE, MIN VERT CLEAR (ft.)	99.99		(102) DIRECTION OF TRAFFIC	1		
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	40.8			(103) TEMP STRUCTURE				
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99			(105) FEDERAL LANDS HIGHWAYS	0			
(54) VERTICAL UNDER CLEARANCE (ft.)		H	15.42	(110) DESIGNATED NATIONAL NETWORK	1			
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)		H	1.5	(20) TOLL	3			
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0			(21) MAINTENANCE RESPONSIBILITY	01			
PROPOSED IMPROVEMENTS				(22) OWNER	01			
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY			(37) HISTORICAL	5			
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0			NAVIGATION DATA				
(94) BRIDGE IMPROVEMENT COST (\$)	0			(38) NAVIGATION CONTROL	0			
(95) ROADWAY IMPROVEMENT COST (\$)	0			(111) PIER OR ABUTMENT PROTECTION	5			
(96) TOTAL PROJECT COST	0			(39) NAV VERT CLEARANCE (ft.)	0			
(97) YEAR OF IMPROVEMENT COST ESTIMATE				(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0			
(114) FUTURE ADT	6830	(115) YEAR OF FUTURE ADT	2028		(40) NAV HORIZONTAL CLEARANCE (ft.)	0		

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National Bridge Inventory

UNDER RECORD 2

IDENTIFICATION

(1) STATE CODE	056 - Arkansas	(7) FACILITY CARRIED	I555-02NB-LM22.96
(3) COUNTY CODE	111	(8) STRUCTURE NUMBER	B6043
(4) PLACE CODE	00000	(9) LOCATION	E SH 463 & CO RD 266
(5) INV. ROUTE (ON/UNDER)	2 4 1 266 0	(11) MILEPOINT	0.310 (12) BASE HIGHWAY NETWORK 0
(6) FEATURES INTERSECTED	CR 266-C- DITCH 23	(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00
		(16) LATITUDE	35.62075 (17) LONGITUDE -90.4965166666667

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE, MAIN A) KIND OF MATERIAL/DESIGN: 4 - Steel continuous
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder

AGE OF SERVICE

(19) BYPASS DETOUR LENGTH	1	(30) YEAR OF AVERAGE DAILY TRAFFIC	1986
(27) YEAR BUILT	1984	(42) TYPE OF SERVICE	ON 1 UNDER 6
(28) LANES	ON 02 UNDER 02	(109) AVERAGE DAILY TRUCK TRAFFIC	1
(29) AVERAGE DAILY TRAFFIC	10		

GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	15.5	(48) LENGTH OF MAXIMUM SPAN	91 (49) STRUCTURE LENGTH 195
(47) TOTAL HORIZONTAL CLEARANCE	80.2		

CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	2
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	09	(103) TEMP STRUCTURE	
(100) STRAHNET HIGHWAY DESIGNATION	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(101) PARALLEL STRUCTURE DESIGNATION	L	(110) DESIGNATED NATIONAL NETWORK	0

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Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	8389	sq. ft.	8149	240	0	0
1120 - Efflorescence/Rust Staining		240			240		
107 - Steel Open Girder/Beam	1- Ben.	1158	ft.	1122	36	0	0
1000 - Corrosion		36			36		
515 - Steel Protective Coating		11627	sq. ft.	11308	319	0	0
3440 - Effectiveness (Steel Protective Coatings)		319			319		
205 - Reinforced Concrete Column	1- Ben.	4	each	4			
215 - Reinforced Concrete Abutment	1- Ben.	120	ft.	120			
234 - Reinforced Concrete Pier Cap	1- Ben.	80	ft.	80			
302 - Compression Joint Seal	1- Ben.	80	ft.	34	0	0	46
2330 - Seal Damage		46					46
310 - Elastomeric Bearing	1- Ben.	24	each	24			
331 - Reinforced Concrete Bridge Railing	1- Ben.	390	ft.	390			

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Bridge Inspection Report

Maintenance Needs

Date Reported: 5/16/2012 12:00:00 AM

Priority: B - Pressing; 6 month completion goal

Work Code:

Deficiency Description:

Bent 1 Compression Seal has 40ft. that has fallen out and Road Iron broke and rattling.

Bent 4 Compression Seal has 14ft. missing and 18ft. of road iron removed.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Inspector:
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Bridge Inspection Report

Maintenance Needs

Date Reported: 5/16/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

S.E. Corner of Bridge
Has 4 Approach Guard Rail Post missing and/or pulled loose.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 5/16/2012 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Majority of Girders have freckled rust.
Bottom of splices are beginning to show areas of rust.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 5/16/2012 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Rubber Bearing Pads Bents 2 & 3
Is beginning to crack and deteriorate.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Maintenance Needs

Date Reported: 5/16/2012 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Ditch under Span 2

Small trees and brush under Span 2.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 5/22/2014 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

North East Corner, Left side of Bent 1, Concrete Slope Protection has settled up to 12in. with approximately 6ft. deep void under concrete near cap

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

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Maintenance Needs

Date Reported: 5/22/2014 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Bents 2 & 3 Caps
Have insignificant vertical cracks.

Work Description:

Date Repairs Completed:

Maintenance Comments:
