

Bridge Inspection Report

05609
I-555-02NB-LM 3.19
over
TYRONZA RIVER



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

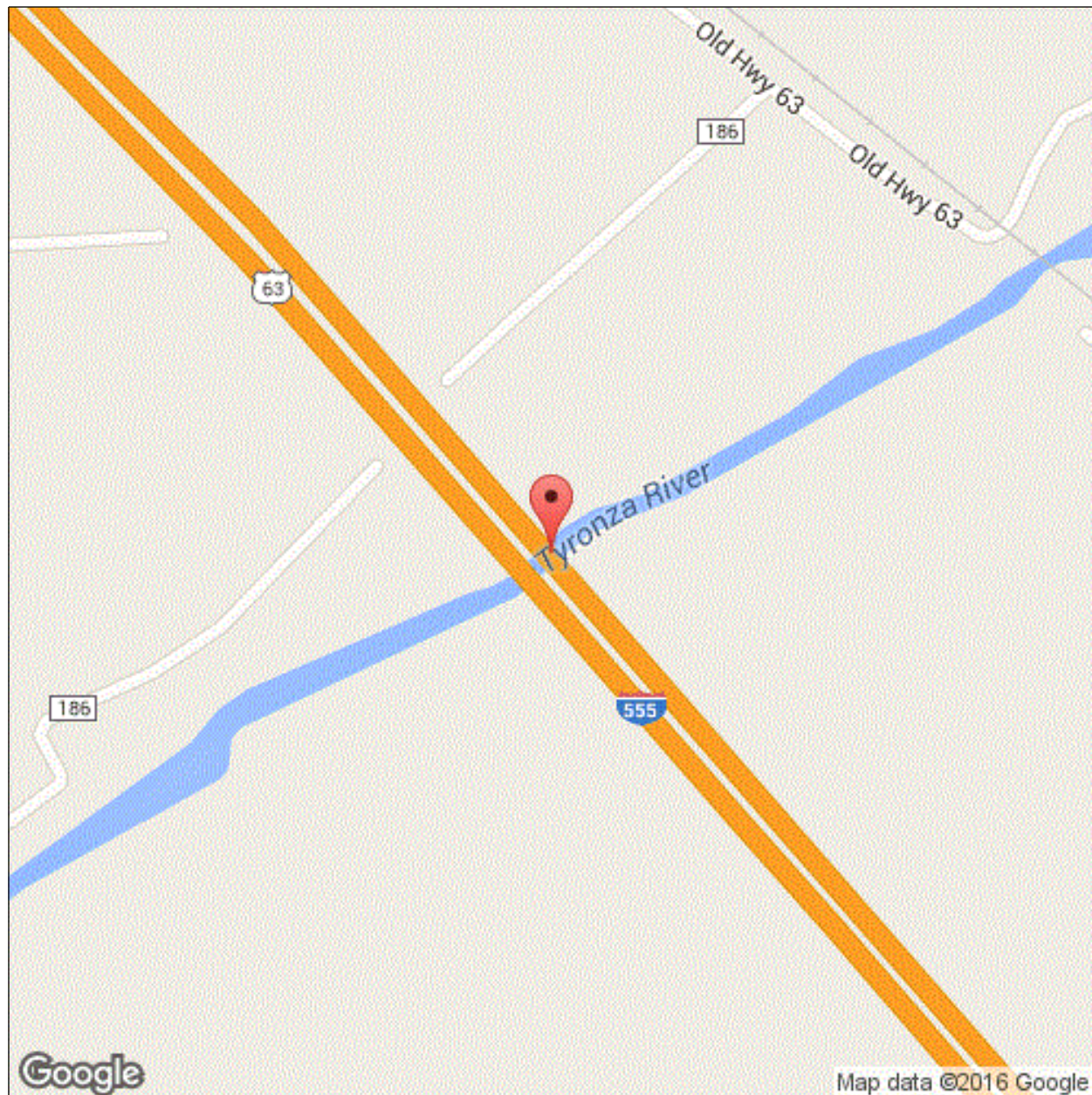
Structure Number: 05609

Inspection Date:

Facility Carried: I-555-02NB-LM 3.19

Bridge Inspection Report

Location Map



Latitude: 35.50278

Longitude: -90.38384

Inspector:

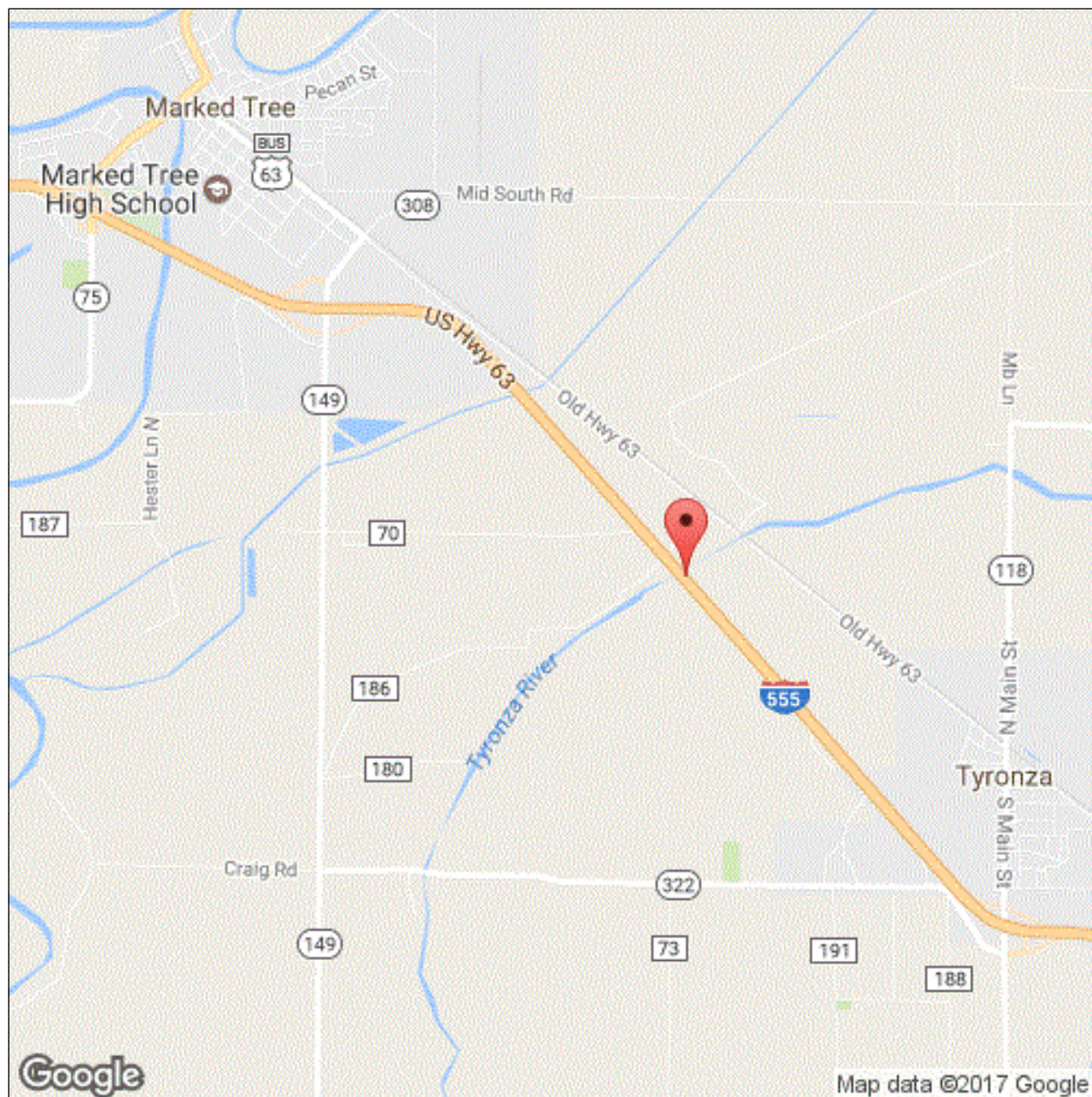
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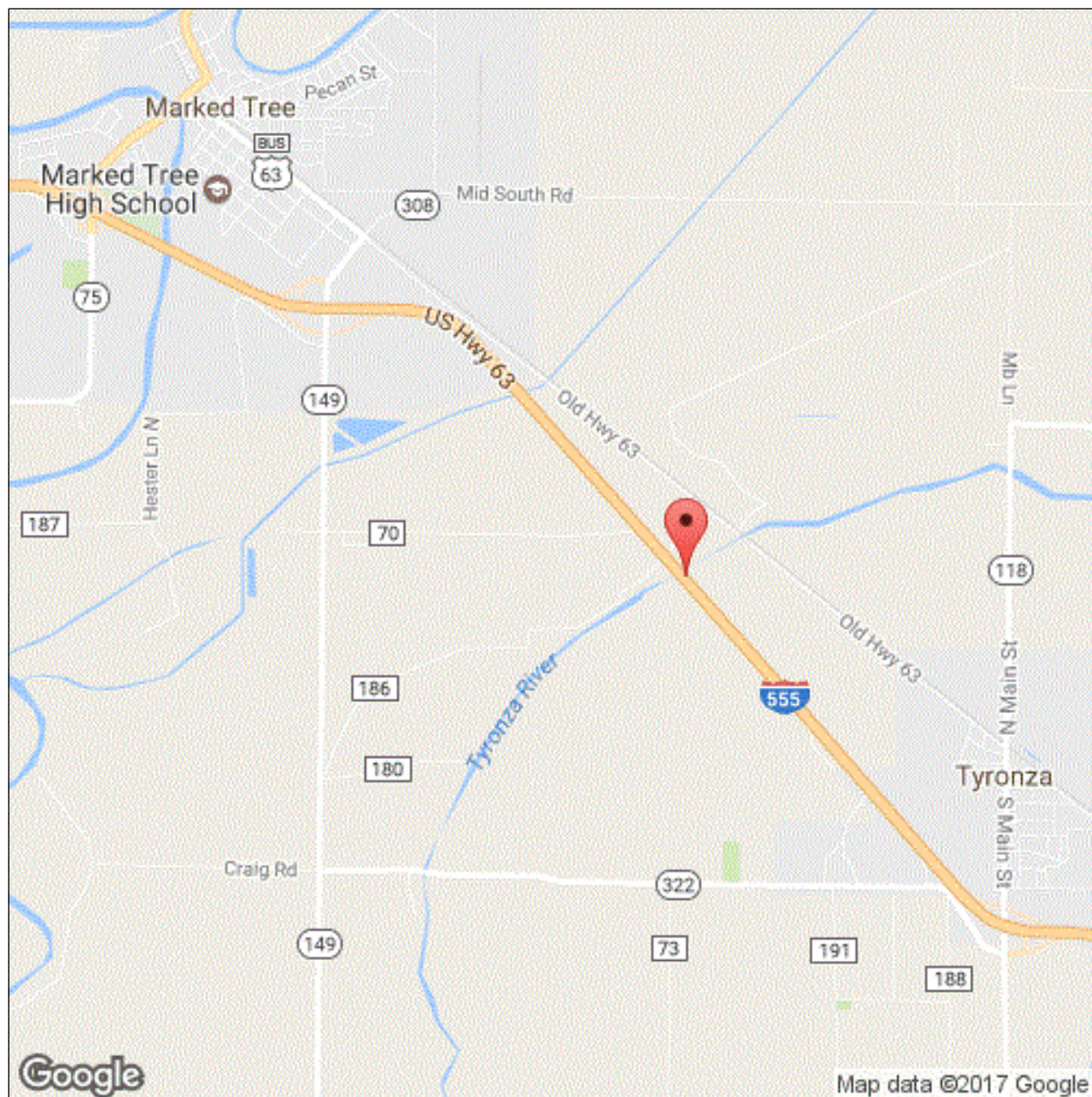
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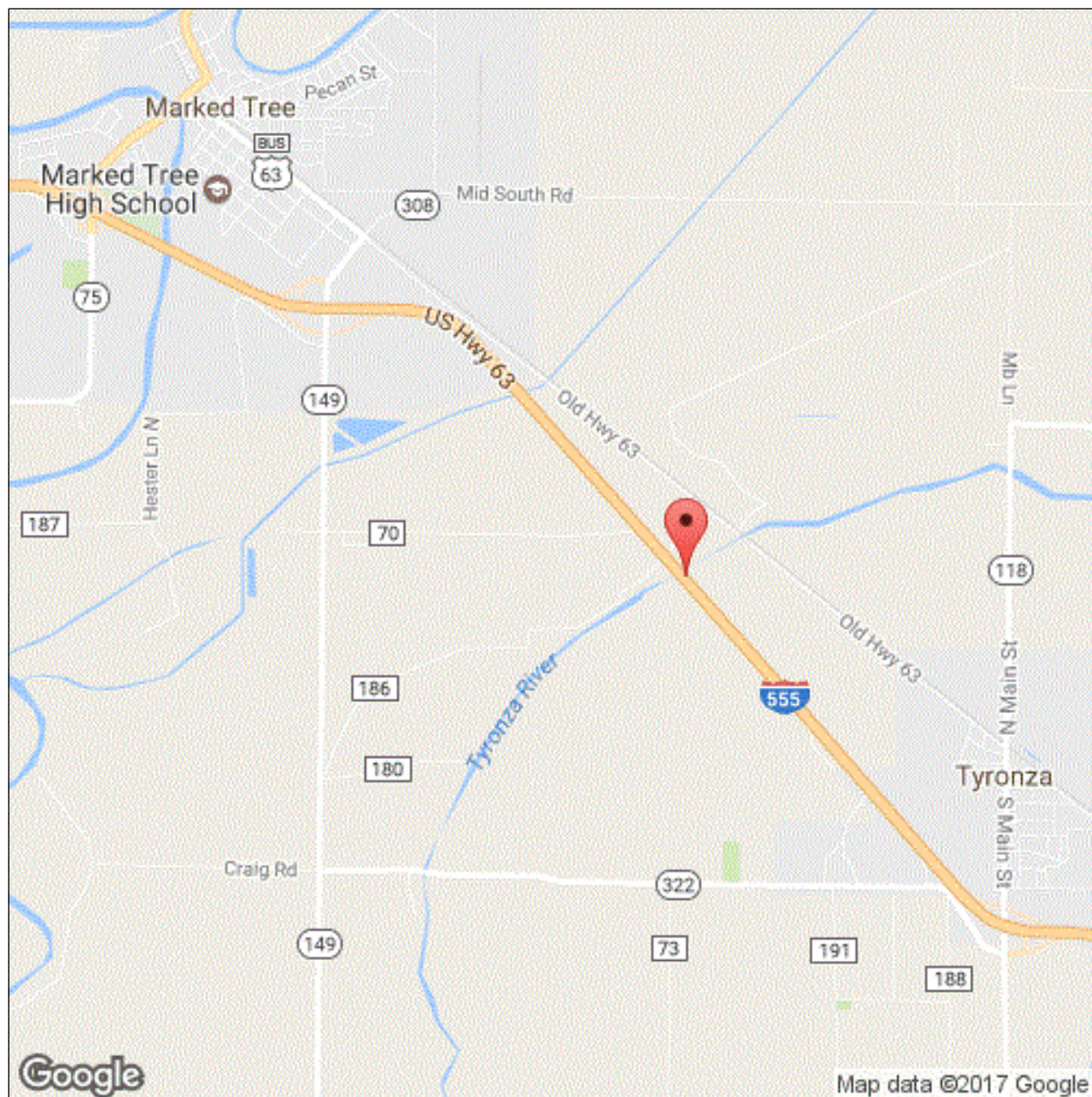
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Bridge Inspection Report

Executive Summary

Inspector:

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	04/25/2019
(8) STRUCTURE NUMBER	05609	(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	TYRONZA RIVER	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I-555-02NB-LM 3.19		
(9) LOCATION	3.19 SE JCT SH 75		
(11) MILEPOINT 10.48	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000063090 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.50278	(17) LONGITUDE -90.38384		
(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	(60) SUBSTRUCTURE 6
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(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 5	(46) NUMBER OF APPROACH 0		
(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 1976	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	5
(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	60
(29) AVERAGE DAILY TRAFFIC 12000	(19) BYPASS DETOUR LENGTH 1	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	36
(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.) 56	(49) STRUCTURE LENGTH (ft.) 282	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	6
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 39.0		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 41.7		(71) WATERWAY ADEQUACY	9
(32) APPROACH ROADWAY WIDTH (ft.) 40.0		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 10	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	36A) BRIDGE RAILINGS:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 40.0		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 96.9	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	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	01
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	1
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	R
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	1
(114) FUTURE ADT 6830	(115) YEAR OF FUTURE ADT 2028	(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

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Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	11756	sq. ft.	0	11664	92	0
1080 - Delamination/Spall/Patched Area		80		0	0	80	0
1120 - Efflorescence/Rust Staining		12		0	0	12	0
1130 - Cracking (RC and Other)		1159		0	1159	0	0
1190 - Abrasion/Wear (PSC/RC)		10505		0	10505	0	0
107 - Steel Open Girder/Beam	1- Ben.	1680	ft.	1596	84	0	0
1000 - Corrosion		84		0	84	0	0
515 - Steel Protective Coating		13066	sq. ft.	12496	570	0	0
3440 - Effectiveness (Steel Protective Coatings)		570		0	570	0	0
205 - Reinforced Concrete Column	1- Ben.	8	each	8	0	0	0
215 - Reinforced Concrete Abutment	1- Ben.	121	ft.	119	0	2	0
1120 - Efflorescence/Rust Staining		2		0	0	2	0
227 - Reinforced Concrete Pile	1- Ben.	30	each	24	6	0	0
1130 - Cracking (RC and Other)		6		0	6	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	160	ft.	130	7	23	0
1080 - Delamination/Spall/Patched Area		11		0	0	11	0
1090 - Exposed Rebar		10		0	0	10	0
1120 - Efflorescence/Rust Staining		2		0	0	2	0
1130 - Cracking (RC and Other)		7		0	7	0	0
302 - Compression Joint Seal	1- Ben.	254	ft.	81	20	77	76
2320 - Seal Adhesion		76		0	0	0	76
2340 - Seal Cracking		77		0	0	77	0
7000 - Damage		20		0	20	0	0
311 - Movable Bearing	1- Ben.	30	each	0	0	30	0
1000 - Corrosion		30		0	0	30	0
313 - Fixed Bearing	1- Ben.	30	each	0	30	0	0
1000 - Corrosion		30		0	30	0	0
321 - Reinforced Concrete Approach Slab	1- Ben.	1752	sq. ft.	1674	0	78	0
1130 - Cracking (RC and Other)		78		0	0	78	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	564	ft.	429	114	21	0
1090 - Exposed Rebar		20		0	0	20	0
1120 - Efflorescence/Rust Staining		1		0	0	1	0
1130 - Cracking (RC and Other)		114		0	114	0	0
7000 - Damage		0		0	0	0	0

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Bridge Inspection Report

Pictures

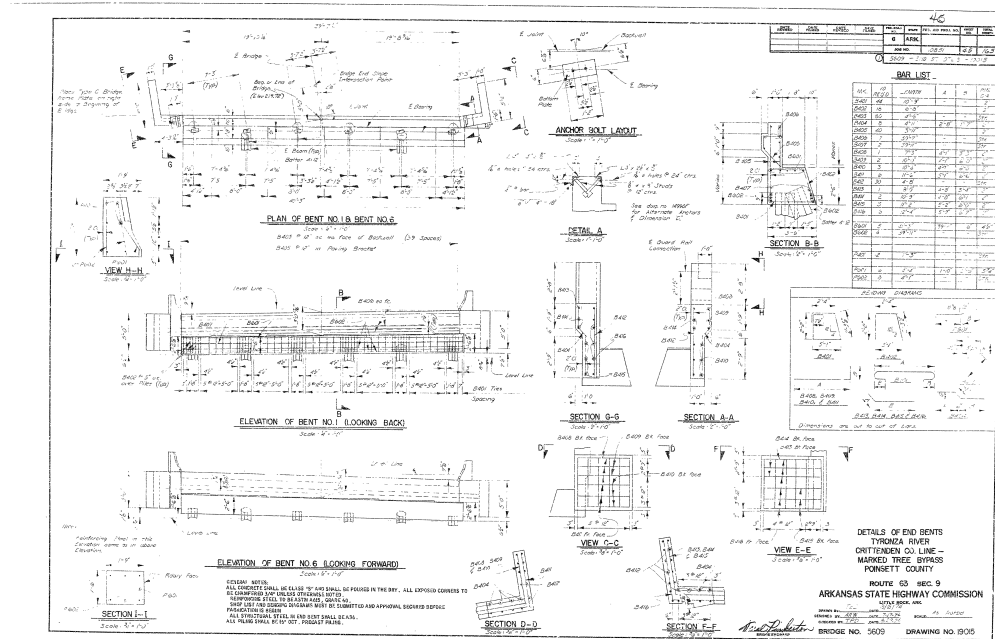


PHOTO 1

Description

PHOTO 1

Description channel profile

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Bridge Inspection Report

Pictures

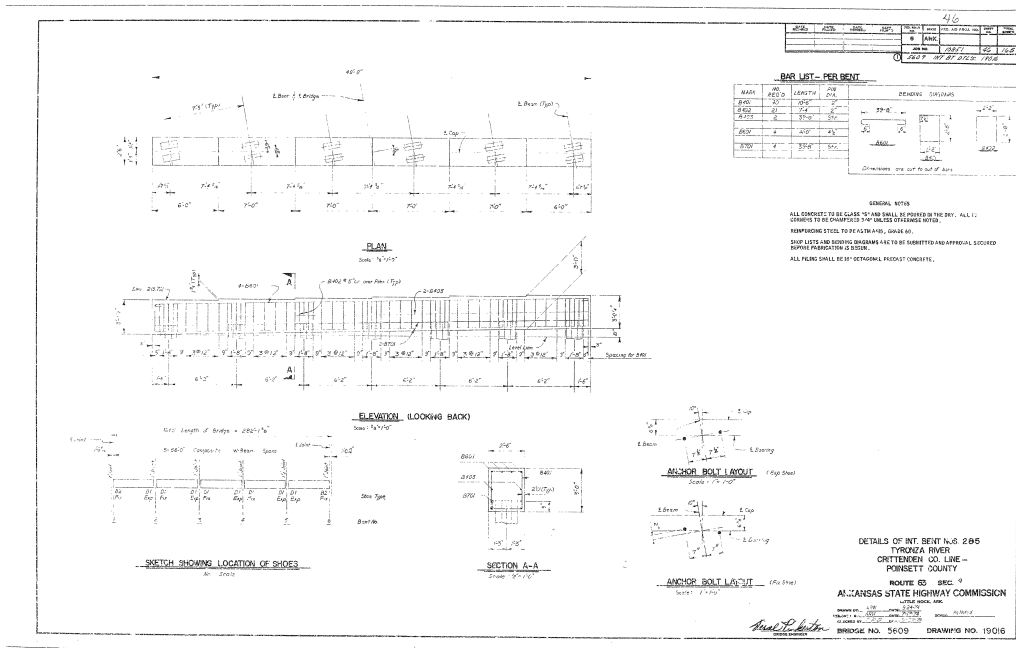


PHOTO 2

Description

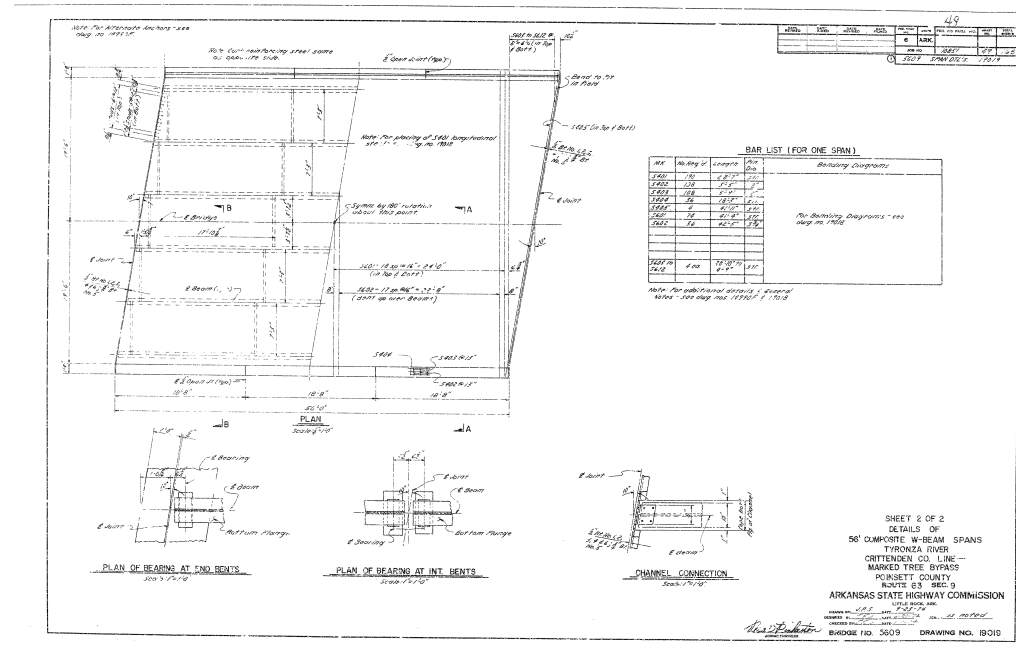


PHOTO 3

Description

Inspector:

Inspection Date:

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Bridge Inspection Report

Pictures

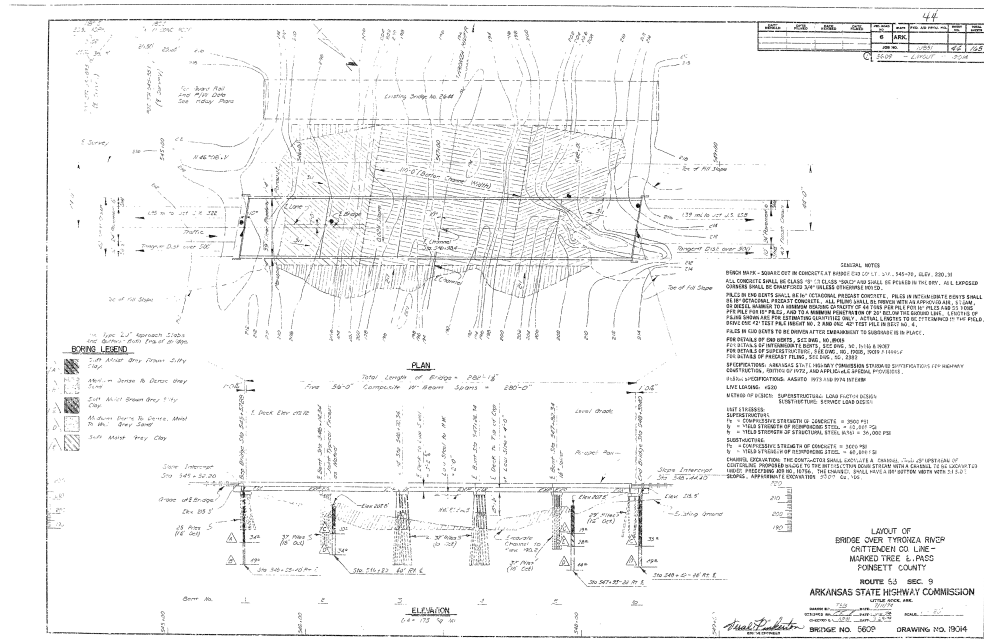


PHOTO 4

Description

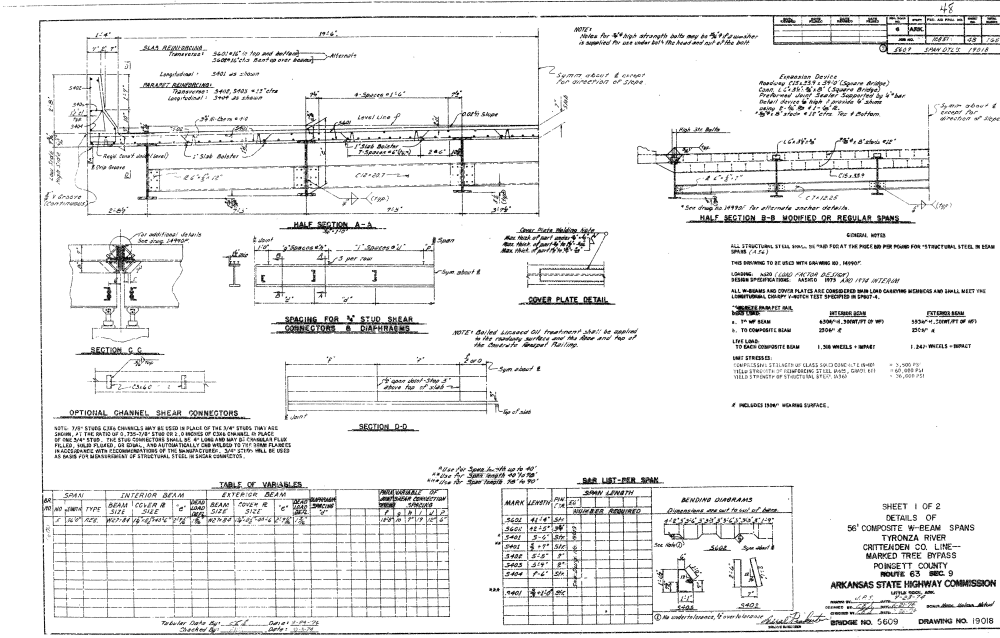


PHOTO 5

Description

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Bridge Inspection Report

Pictures

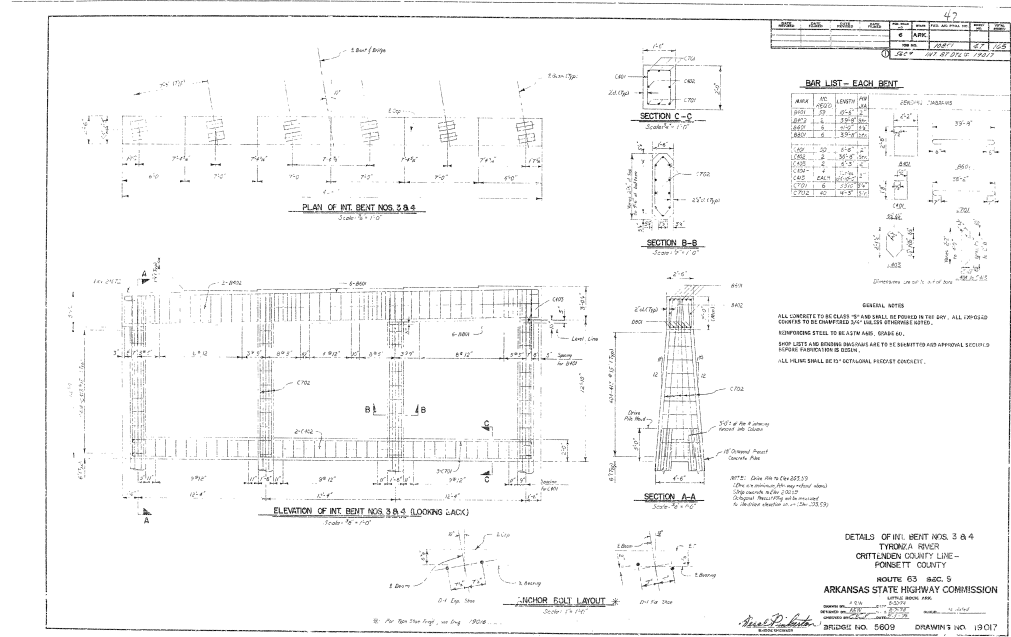


PHOTO 6

Description

Inspector:

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Bridge Inspection Report

Sketches

Inspector:

Structure Number: 05609

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

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

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Majority of Girders have freckled rust.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

Structure Number: 05609

Inspection Date:

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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:

Bearings are rusted with pitting and/or initial section loss.

Bents 2, 3, 4 & 5 have pack rust between rocker bearings and masonry plate.

Span 3 Bent 2 Rocker Bearings 2, 3, 5, 6 are tilted close to their limit.

Spans 1&2 Girder 2 Bent 2 has 1 anchor bolt (each) broke or sheared off.

Span 2 Girder 3 Bent 2 has 2 anchor bolts broke or sheared off.

Spans 4&5 Girder 3 Bents 2&3 has a few short anchor bolts.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/25/2019

Priority: D - Routine

Work Code:

Deficiency Description:

Concrete deck has minor abrasion, moderate width cracking with some spalls & potholes that have been filled with asphalt.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Deck

Stage: Monitor



PHOTO 2 Description Roadway

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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:

Bents 3&4
has a drift lodged on piles.

Work Description:

Date Repairs Completed:

Maintenance Comments:

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:

All compression seals are split & torn. Some of the seals have areas that have dropped out.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 5/21/2014 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Bent 4 Cap has some vertical and horizontal cracks with some deterioration to the top of cap between Girders 4&5 with exposed rebar due to lack of steel coverage.

Caps Bents 3&4 have some rebar exposed due to lack of steel coverage.

Bent 2 cap has some cracking to cap, delamination at bottom of cap near pile 2, and the left end has some exposed rebar due to the lack of steel coverage.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 5/21/2014 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Bents 1 & 6 road iron
Is vibrating under traffic.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 5/21/2014 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Bearings are rusted with pitting and/or initial section loss.
Bents 2, 3, 4 & 5 Bearings have pack rust between rocker bearings and masonry plate.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 5/21/2014 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Concrete Piles have some vertical cracks especially Bent 2 Piles 1, 2, 3, 4, 6.

Work Description:

Date Repairs Completed:

Maintenance Comments:
