

# Bridge Inspection Report

**06279**  
**SH 1-SEC 17B**  
**over**  
**I-555-SEC 03**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

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Inspector:

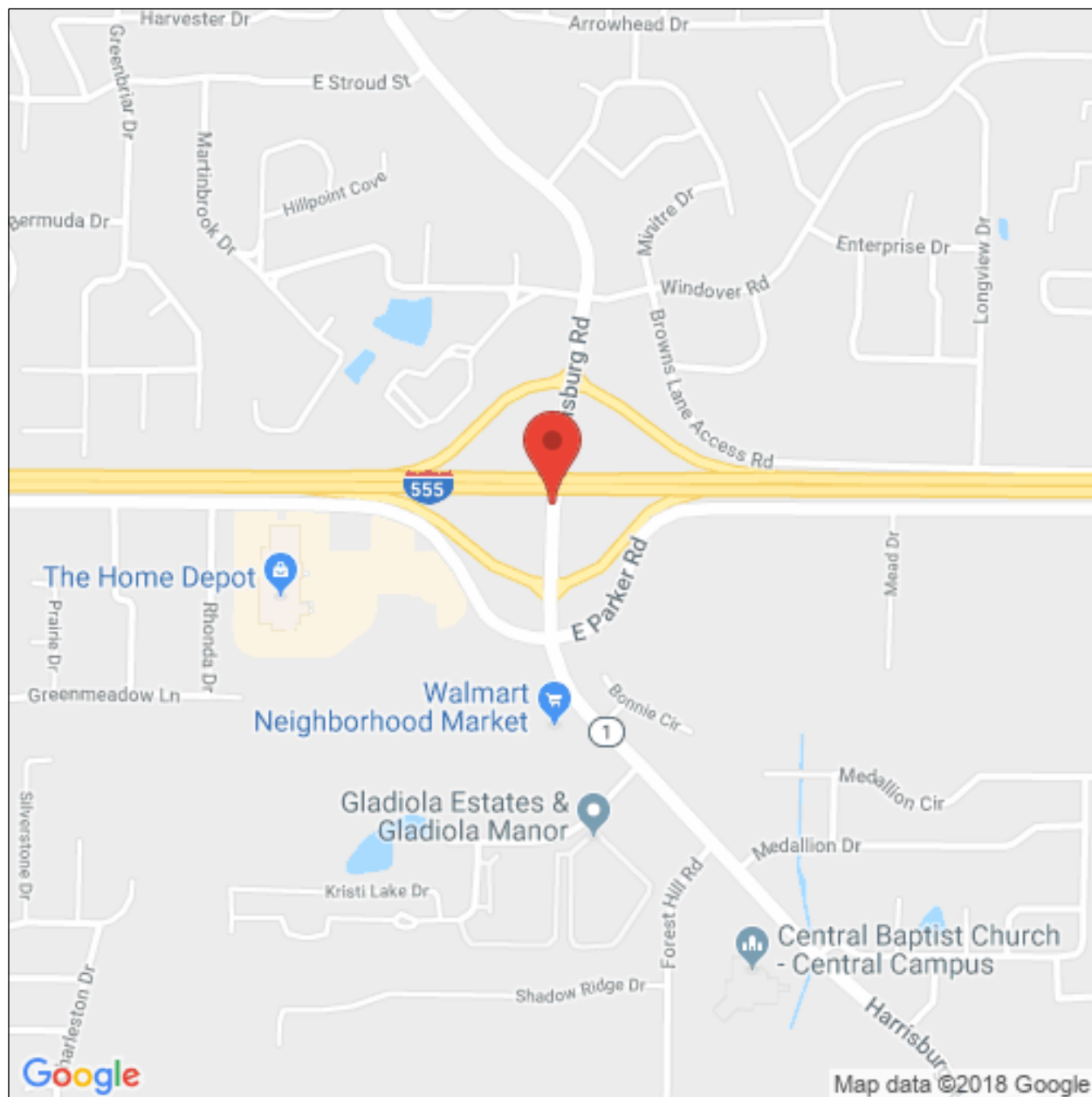
Structure Number: 06279

Inspection Date:

Facility Carried: SH 1-SEC 17B

## Bridge Inspection Report

### Location Map



Latitude: 35.80688419238013

Longitude: -90.69858277877165

Inspector:

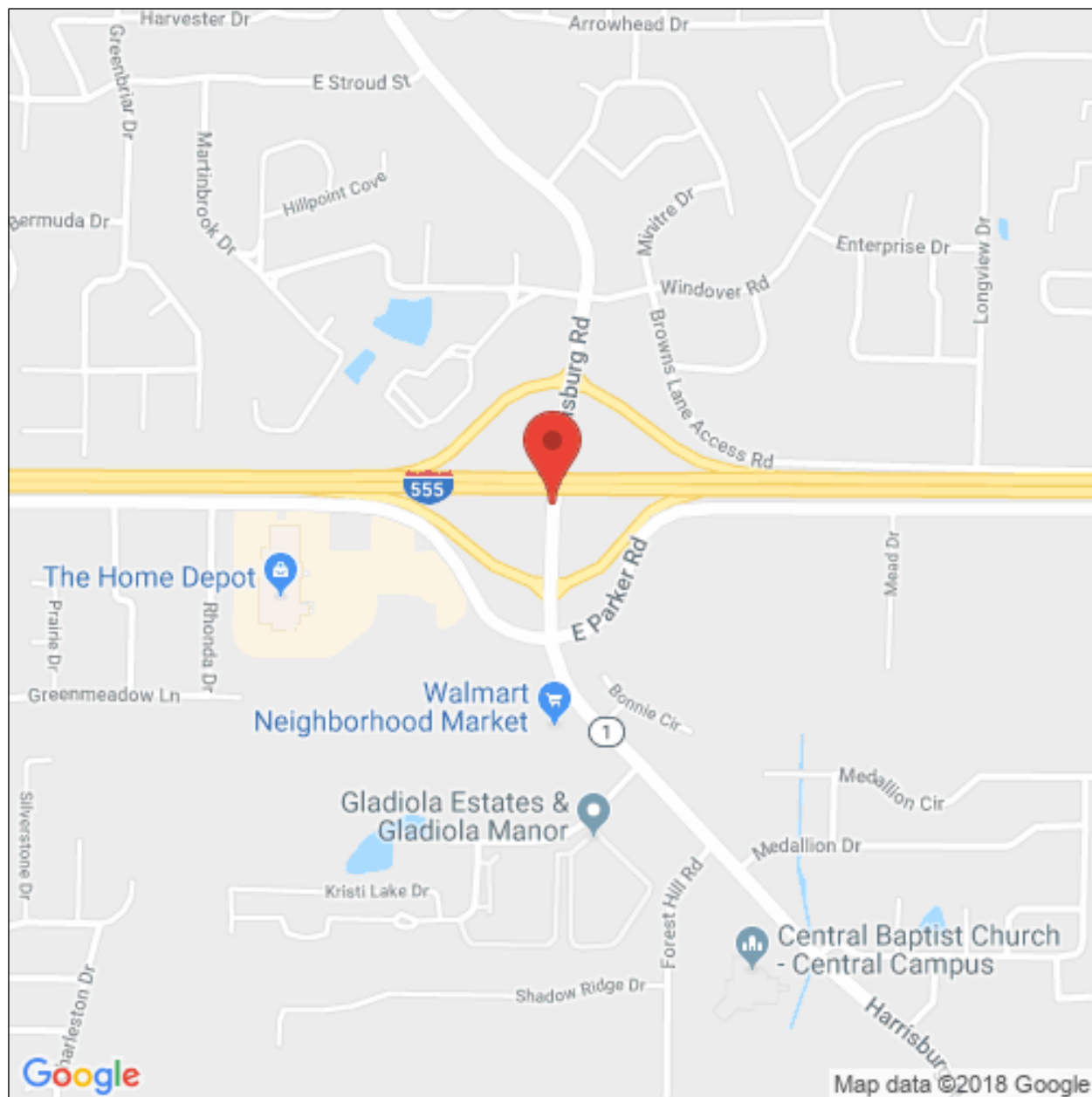
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## Bridge Inspection Report

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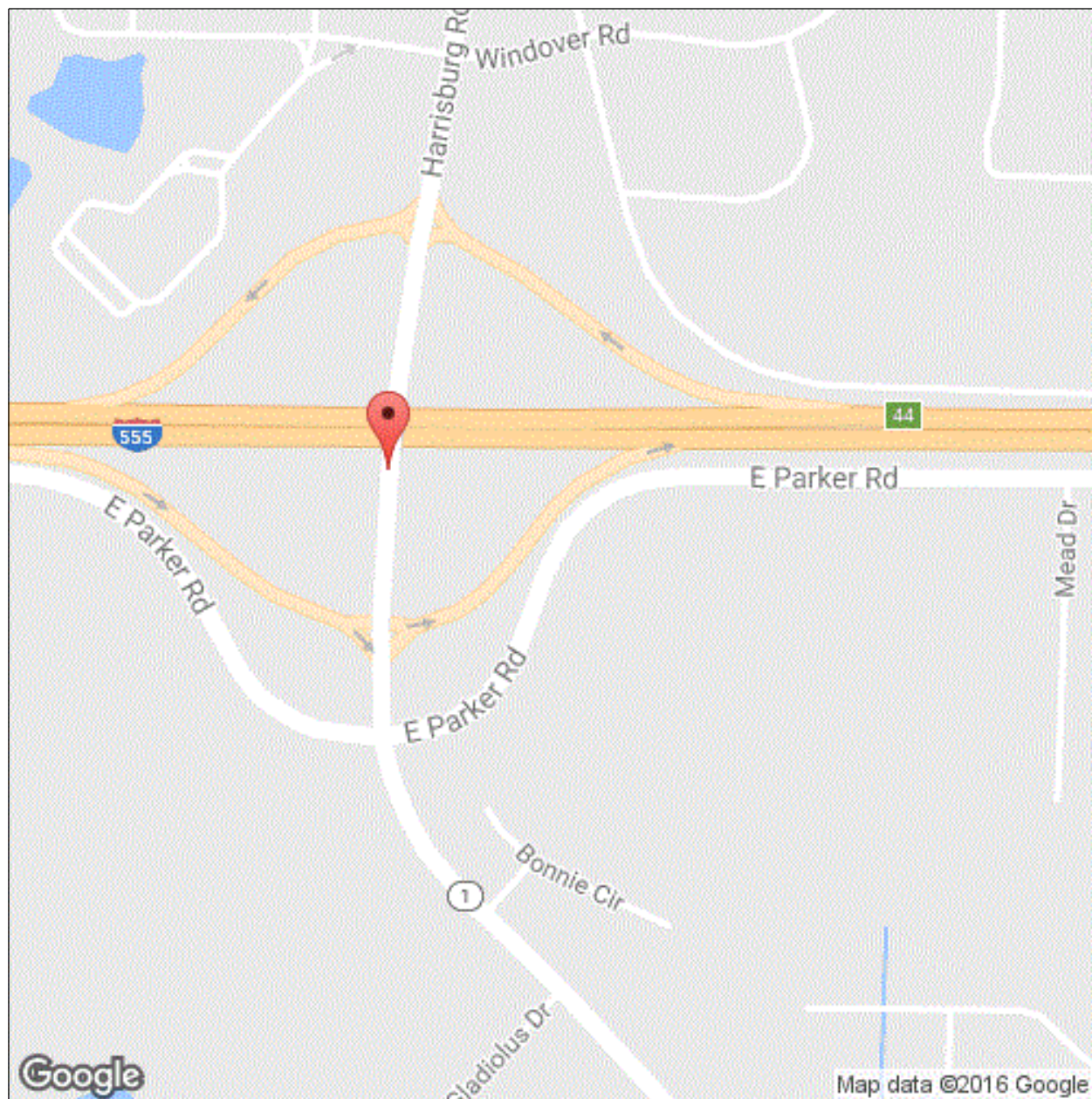
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### Bridge Inspection Report

### Location Map



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### Bridge Inspection Report

## Executive Summary

8-1-2018 routine on structure and routine under structure are open with some finish repairs being made.

6-29-2017

2 lanes of traffic open to traffic on Hwy 1B, Harrisburg OP

I555 Open to traffic on the Northbound side, see 2017 photo in San1 Accident 6-29-2017

6-27-2017

An 18 wheel truck going Northbound on I-555 left the roadway, struck column 4 at bent 4, and caught fire.

Deck has settled on Rt side over bent 4. Deck has a 3/16" longitudinal crack approx. 36' long over bent 4 25' from Rt concrete rail. See accident photos

Inspector:

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## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	09/17/2018
(8) STRUCTURE NUMBER	06279	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 6 1 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	10 (3) COUNTY CODE 031	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	34720	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	I-555-SEC 03	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 1-SEC 17B		
(9) LOCATION	2.9 MI NW JCT SH 1		
(11) MILEPOINT 2.940	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.80688419238013	(17) LONGITUDE -90.69858277877165		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	7
A) KIND OF MATERIAL/DESIGN: 4 - Steel continuous		(59) SUPERSTRUCTURE	7
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(60) SUBSTRUCTURE	7
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	N
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
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 1		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1989	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	5
(42) TYPE OF SERVICE ON 1 UNDER 1		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 05 UNDER 04		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 12000	(19) BYPASS DETOUR LENGTH 4	(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.) 77	(49) STRUCTURE LENGTH (ft.) 254	(67) STRUCTURAL EVALUATION	7
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	7
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 76.1		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	6
(52) DECK WIDTH, OUT-TO-OUT (ft.) 78.8		(71) WATERWAY ADEQUACY	N
(32) APPROACH ROADWAY WIDTH (ft.) 84.0		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 8	(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.) 77.1		36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.) H 16.90		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) H 31.3		(113) SCOUR CRITICAL BRIDGES	N
(56) MIN LATERAL UNDER CLEARANCE (ft.) 8		SUFFICIENCY RATING	91.4 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	16
(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 12346	(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	N
		(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

Inspector:

Structure Number: 06279

Inspection Date:

Facility Carried: SH 1-SEC 17B

## Bridge Inspection Report

## Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>12 - Reinforced Concrete Deck</b>	1- Ben.	19908	sq. ft.	16273	3600	35	0
1120 - Efflorescence/Rust Staining		93		0	93	0	0
1130 - Cracking (RC and Other)		2526		0	2491	35	0
1190 - Abrasion/Wear (PSC/RC)		1016		0	1016	0	0
<b>107 - Steel Open Girder/Beam</b>	1- Ben.	2520	ft.	2518	2	0	0
1000 - Corrosion		2		0	2	0	0
515 - Steel Protective Coating		28748	sq. ft.	28740	0	8	0
3440 - Effectiveness (Steel Protective Coatings)		8		0	0	8	0
<b>205 - Reinforced Concrete Column</b>	1- Ben.	12	each	8	0	3	1
7000 - Damage		4		0	0	3	1
<b>215 - Reinforced Concrete Abutment</b>	1- Ben.	196	ft.	168	28	0	0
1120 - Efflorescence/Rust Staining		2		0	2	0	0
1130 - Cracking (RC and Other)		26		0	26	0	0
<b>234 - Reinforced Concrete Pier Cap</b>	1- Ben.	233	ft.	201	32	0	0
1130 - Cracking (RC and Other)		32		0	32	0	0
<b>302 - Compression Joint Seal</b>	1- Ben.	159	ft.	0	0	0	159
2320 - Seal Adhesion		3		0	0	0	3
2340 - Seal Cracking		156		0	0	0	156
<b>310 - Elastomeric Bearing</b>	1- Ben.	50	each	0	50	0	0
1000 - Corrosion		50		0	50	0	0
<b>331 - Reinforced Concrete Bridge Railing</b>	1- Ben.	504	ft.	440	64	0	0
1130 - Cracking (RC and Other)		64		0	64	0	0

Inspector:

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Facility Carried: SH 1-SEC 17B

## Bridge Inspection Report

## Pictures

PHOTO 1

Description

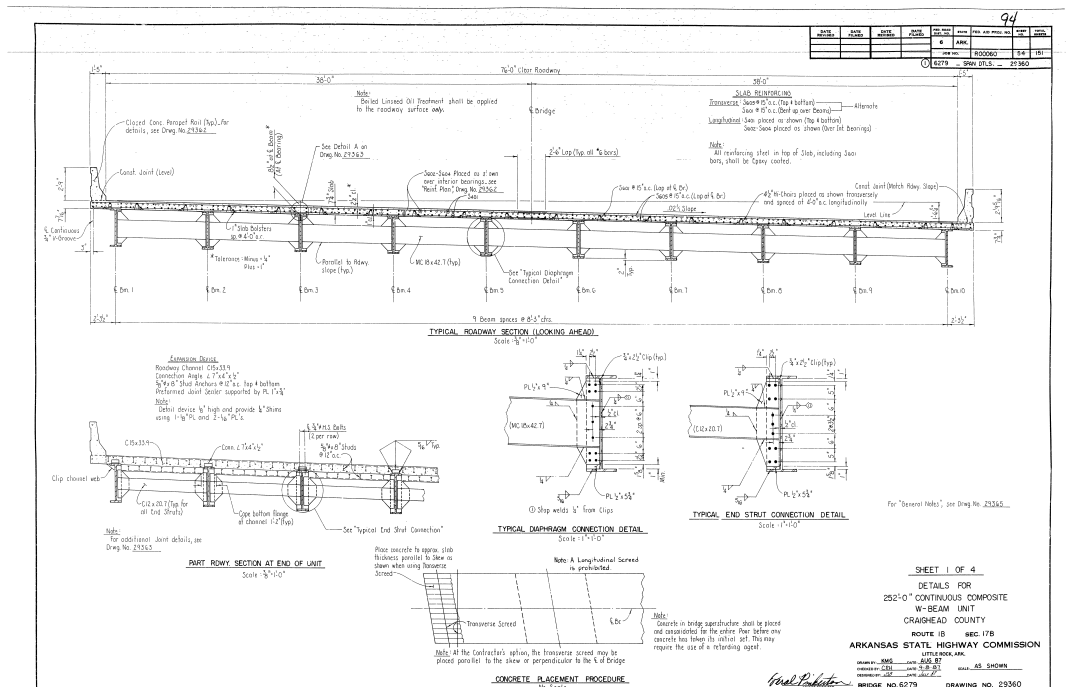


PHOTO 1

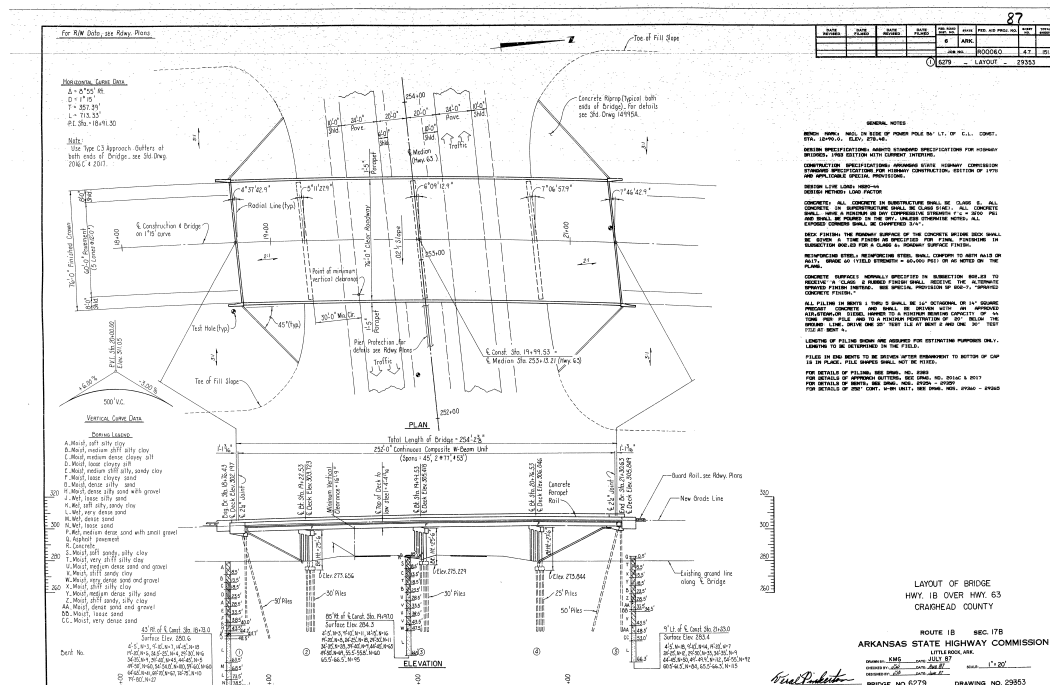
Description cross section

**Inspection Date:**

**Facility Carried:** SH 1-SEC 17B

## Pictures

### Description



Description	layout
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**Inspector:**

**Inspection Date:**

**Structure Number:** 06279

**Facility Carried:** SH 1-SEC 17B

**Bridge Inspection Report**

**Sketches**

Inspector:

Structure Number: 06279

Inspection Date:

Facility Carried: SH 1-SEC 17B

### Bridge Inspection Report

## Maintenance Needs

Date Reported: 10/17/2012 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

---

### Deficiency Description:

Span 3 Girder 3 Splice  
1 Bolt missing from bottom flange  
Photo added 9/17/2018 CCP.

### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Monitor



PHOTO 1      Description      Span 3 splice 1 girder 3 missing bolt.



Inspector:

Structure Number: 06279

Inspection Date:

Facility Carried: SH 1-SEC 17B

### Bridge Inspection Report

#### Maintenance Needs

**Date Reported:** 10/17/2012 12:00:00 AM

**Priority:** G - General/ Preventive maintenance

**Work Code:**

---

**Deficiency Description:**

Span 1 Girder 4 Bent 1  
Has 1 anchor bolt nut missing.

**Work Description:**

---

**Date Repairs Completed:**

**Maintenance Comments:**

---

**Date Reported:** 10/17/2012 12:00:00 AM

**Priority:** G - General/ Preventive maintenance

**Work Code:**

---

**Deficiency Description:**

Diaphragm Bolts  
Several diaphragm bolts missing (1 each)  
Span 1 Girder 5 Bay 4 Diaphragm 5  
Span 2 Girder 4 Bay 3 Diaphragms 6&7  
Span 3 Girder 2 Bay 2 Diaphragm 5  
Span 3 Girder 3 Bay 2 Diaphragm 6  
Span 3 Girder 4 Bay 4 Diaphragm 2  
Span 3 Girder 5 Bay 5 Diaphragm 4  
Span 3 Girder 8 Bay 7 Diaphragm 2 has all diaphragm bolts loose.

**Work Description:**

---

**Date Repairs Completed:**

**Maintenance Comments:**

---

Inspector:

Structure Number: 06279

Inspection Date:

Facility Carried: SH 1-SEC 17B

### Bridge Inspection Report

## Maintenance Needs

Date Reported: 09/01/2016

Priority: D - Routine

Work Code:

---

### Deficiency Description:

Compression seals over both end bents have near complete failure.

### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Monitor



PHOTO 1      Description      Both joints seals have almost complete failure.

Inspector:

Structure Number: 06279

Inspection Date:

Facility Carried: SH 1-SEC 17B

### Bridge Inspection Report

#### Maintenance Needs

**Date Reported:** 10/18/2012 12:00:00 AM

**Priority:** G - General/ Preventive maintenance

**Work Code:**

---

**Deficiency Description:**

Span 2 Girder 5 Diaphragm 1  
has 1 bolt not pulled up tight.

**Work Description:**

---

**Date Repairs Completed:**

**Maintenance Comments:**

---

Inspector:

Structure Number: 06279

Inspection Date:

Facility Carried: SH 1-SEC 17B

### Bridge Inspection Report

## Maintenance Needs

Date Reported: 09/18/2018

Priority: D - Routine

Work Code:

---

### Deficiency Description:

Span 2 Girder 8

Has minor collision damage, approximately 15 ft. ahead of splice, Lt side of bottom flange is bowed up approximately 2 1/2 in. Photographed on 9/13/2018 CCP.

### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Monitor



PHOTO 1      Description      Span 2 girder 8 old impact damage over outside lane.

Inspector:

Structure Number: 06279

Inspection Date:

Facility Carried: SH 1-SEC 17B

### Bridge Inspection Report

#### Maintenance Needs

**Date Reported:** 10/31/2014 12:00:00 AM

**Priority:** G - General/ Preventive maintenance

**Work Code:**

---

**Deficiency Description:**

Span 1 Bent 1

Has several Anchor Bolts short, majority only have half threads in nuts.

**Work Description:**

---

**Date Repairs Completed:**

**Maintenance Comments:**

---

Inspector:

Structure Number: 06279

Inspection Date:

Facility Carried: SH 1-SEC 17B

### Bridge Inspection Report

## Maintenance Needs

Date Reported: 10/31/2014 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

---

### Deficiency Description:

Span 3 Bays 1, 2, 3, 5, 6, 7, 8 & 9 Stay-in-Place Forms  
Are rusted with some section loss, see 2014 photo of Span 3 Bay 9.

### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Monitor



PHOTO 1 Description

Inspector:

Structure Number: 06279

Inspection Date:

Facility Carried: SH 1-SEC 17B

## Bridge Inspection Report

### Maintenance Needs

Date Reported: 09/17/2018

Priority: G - General/ Preventive maintenance

Work Code:

#### Deficiency Description:

Some diaphragms and splices have loose bolts:

Span 1 Bent 2 between girders 4 & 5 diaphragm 1

Span 1 bent 5 diaphragm 4

Span 3 between girders 7 & 8 diaphragm 2 right side all bolts are loose

Span 1 bent 2 between girders 5 & 6 diaphragm 1

#### Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1      Description      Bent 2 between girders 4 & 5  
diaphragm 1 loose bolt

Stage: Open

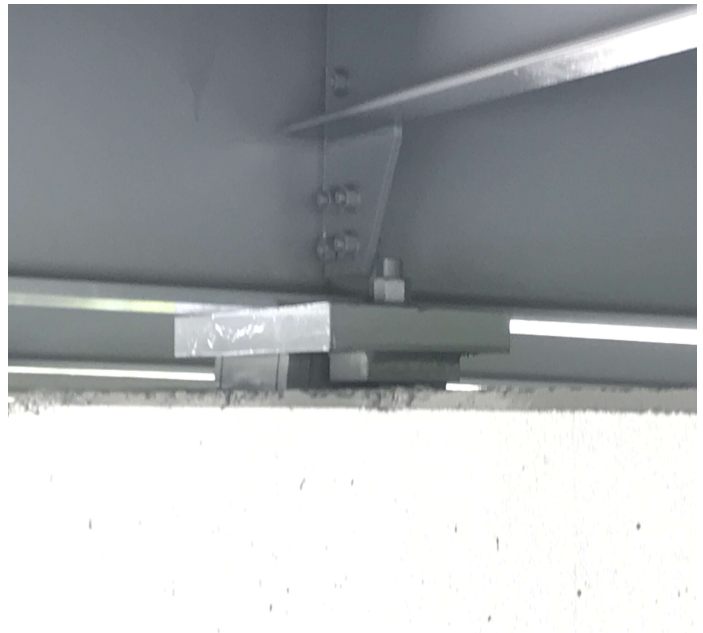


PHOTO 2      Description      Bent 2 between girders 5 & 6  
diaphragm 1 loose bolt

Inspector:

Inspection Date:

Structure Number: 06279

Facility Carried: SH 1-SEC 17B

## Bridge Inspection Report

### Maintenance Needs

Stage: Open



PHOTO 3	Description	Span 3 between girders 7 & 8 diaphragm 2 right side bolts are loose.
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Inspector:

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Inspection Date:

Facility Carried: SH 1-SEC 17B

### Bridge Inspection Report

## Maintenance Needs

Date Reported: 09/17/2018

Priority: G - General/ Preventive maintenance

Work Code:

---

### Deficiency Description:

Span 1 bent 1 girder 4 broken weld at sole plate to bottom flange. photo 2018

Span 1 bent 1 girder 8 lack of fusion of weld from sole plate to bottom flange of girder. photo 2018

### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Open

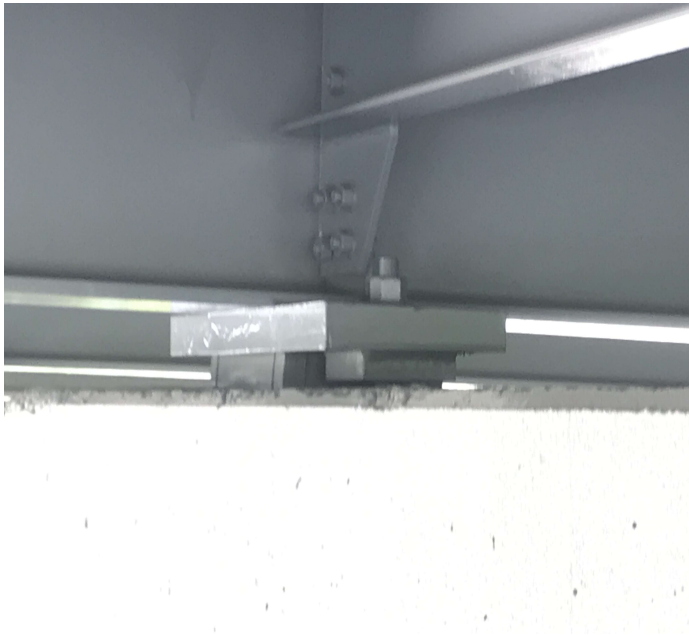


PHOTO 1      Description      Bent 2 between girders 5 & 6  
diaphragm 1 loose bolt

Stage: Open



PHOTO 2      Description      Span 1 bent 1 lack of fusion of weld  
from bottom of girder 8 to sole plate

Inspector:

Structure Number: 06279

Inspection Date:

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### Bridge Inspection Report

## Maintenance Needs

Date Reported: 09/17/2018

Priority: G - General/ Preventive maintenance

Work Code:

### Deficiency Description:

Super was repainted in November of 2017 job. no. 100963  
Several areas of the new paint starting to fail either by flaking or rust.  
photos 2018

### Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Bent 3 left side rust on bearing. Photo to monitor.

Stage: Open



PHOTO 2 Description Bent 3 bearings paint flaking typical of bearings on this bent.

Inspector:

Structure Number: 06279

Inspection Date:

Facility Carried: SH 1-SEC 17B

### Bridge Inspection Report

## Maintenance Needs

Date Reported: 09/17/2018

Priority: G - General/ Preventive maintenance

Work Code:

---

### Deficiency Description:

Span 4 bent 5 girder 10 bearing has missing anchor bolt on left side. photo 2018.

### Work Description:

---

### Date Repairs Completed:

### Maintenance Comments:

---

Stage: Open



PHOTO 1      Description      Span 4 bent 5 bearing under girder 10 on left side has missing anchor bolt.

Inspector:

Structure Number: 06279

Inspection Date:

Facility Carried: SH 1-SEC 17B

### Bridge Inspection Report

## Maintenance Needs

Date Reported: 09/17/2018

Priority: G - General/ Preventive maintenance

Work Code:

---

### Deficiency Description:

Span 1 bent 1 girder 5 pack rust forming between girder and bearing. photo 2018.

### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Open



PHOTO 1      Description      Span 1 bent 1 girder 5 pack rust forming between girder and bearing.