

Bridge Inspection Report

A2014
SH 463-01- LM 8.08
over
BIG BAY DITCH



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

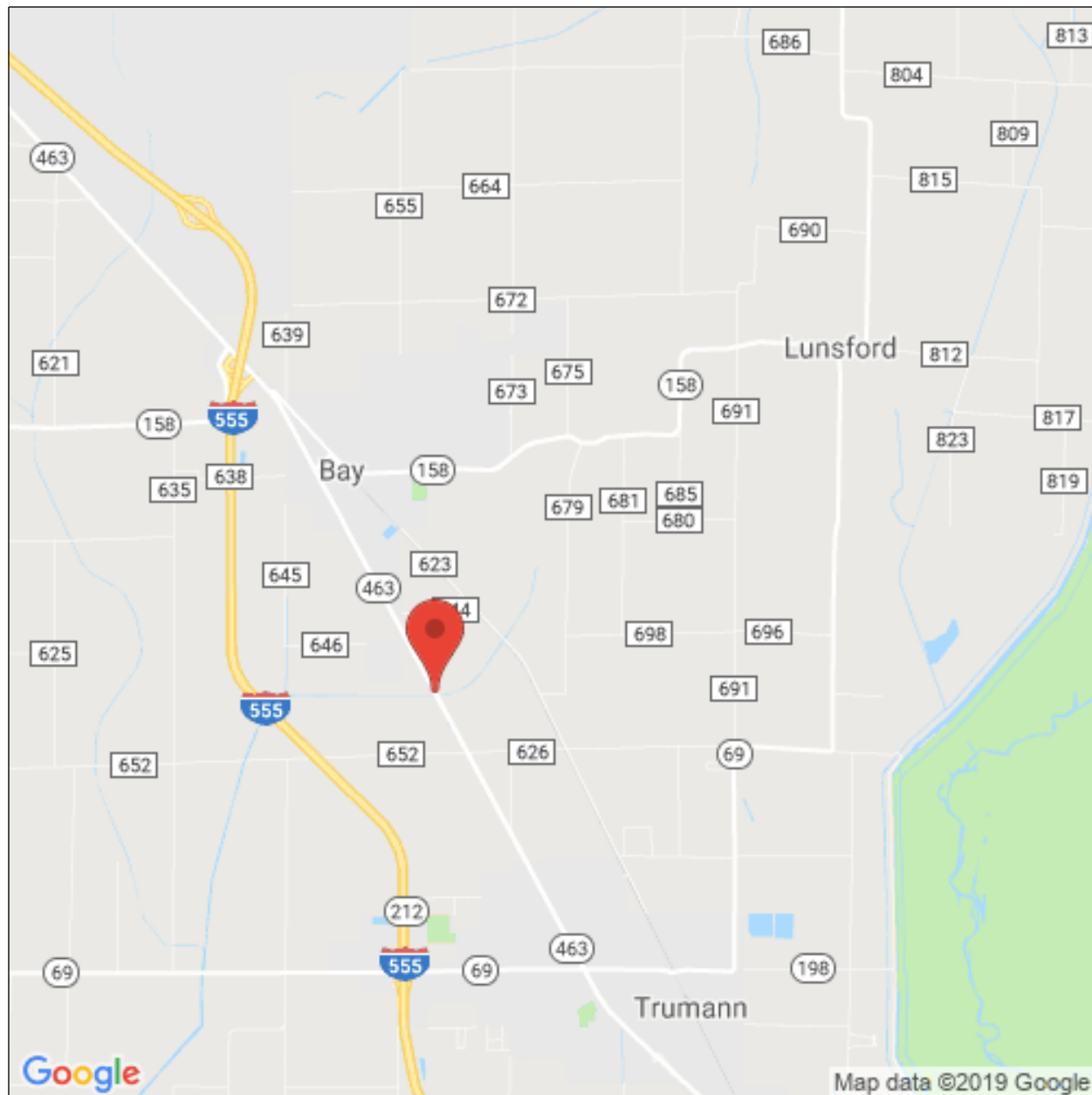
Structure Number: A2014

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Bridge Inspection Report

Location Map



Latitude: 35.71379

Longitude: -90.54763

Inspector:

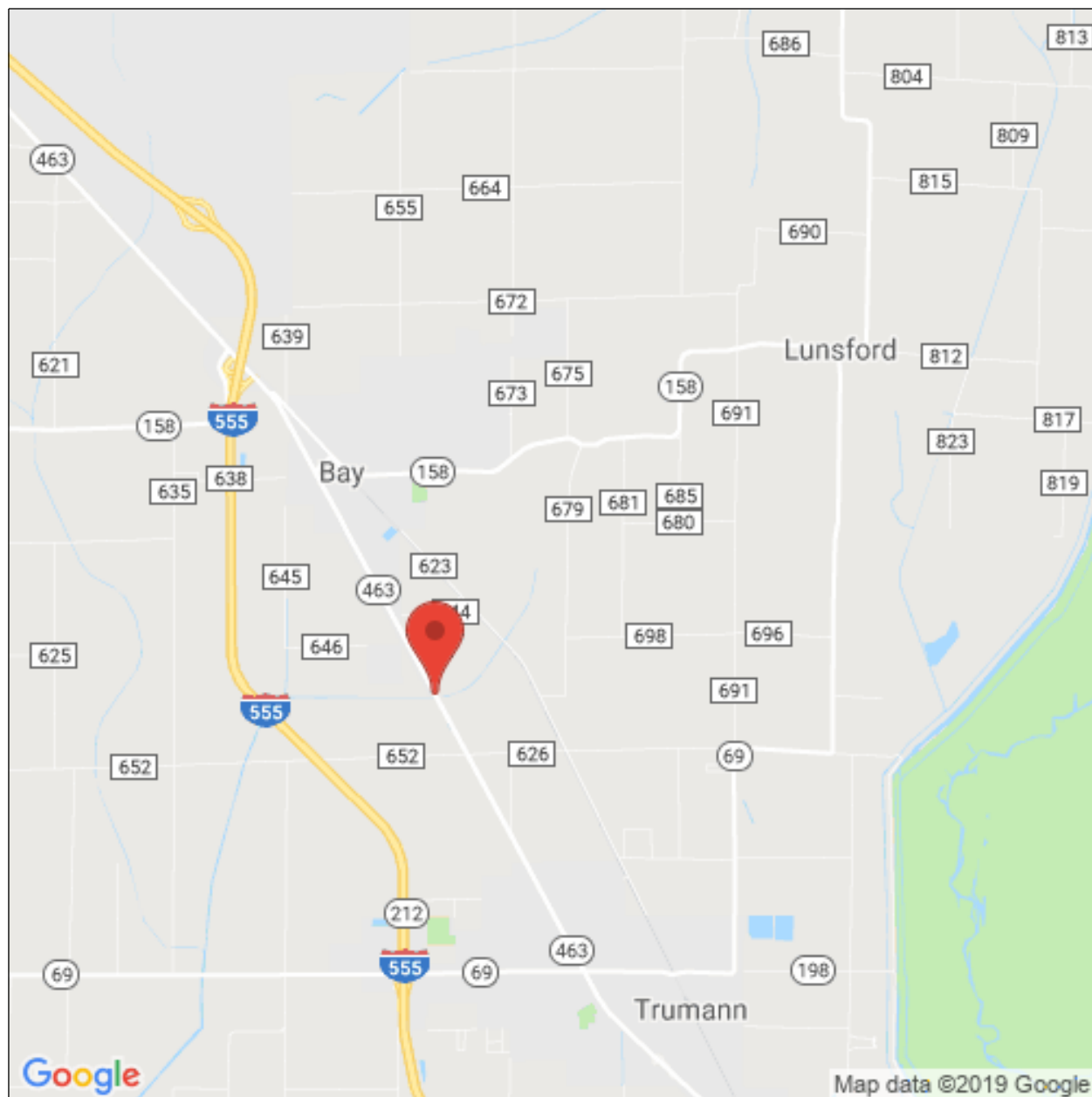
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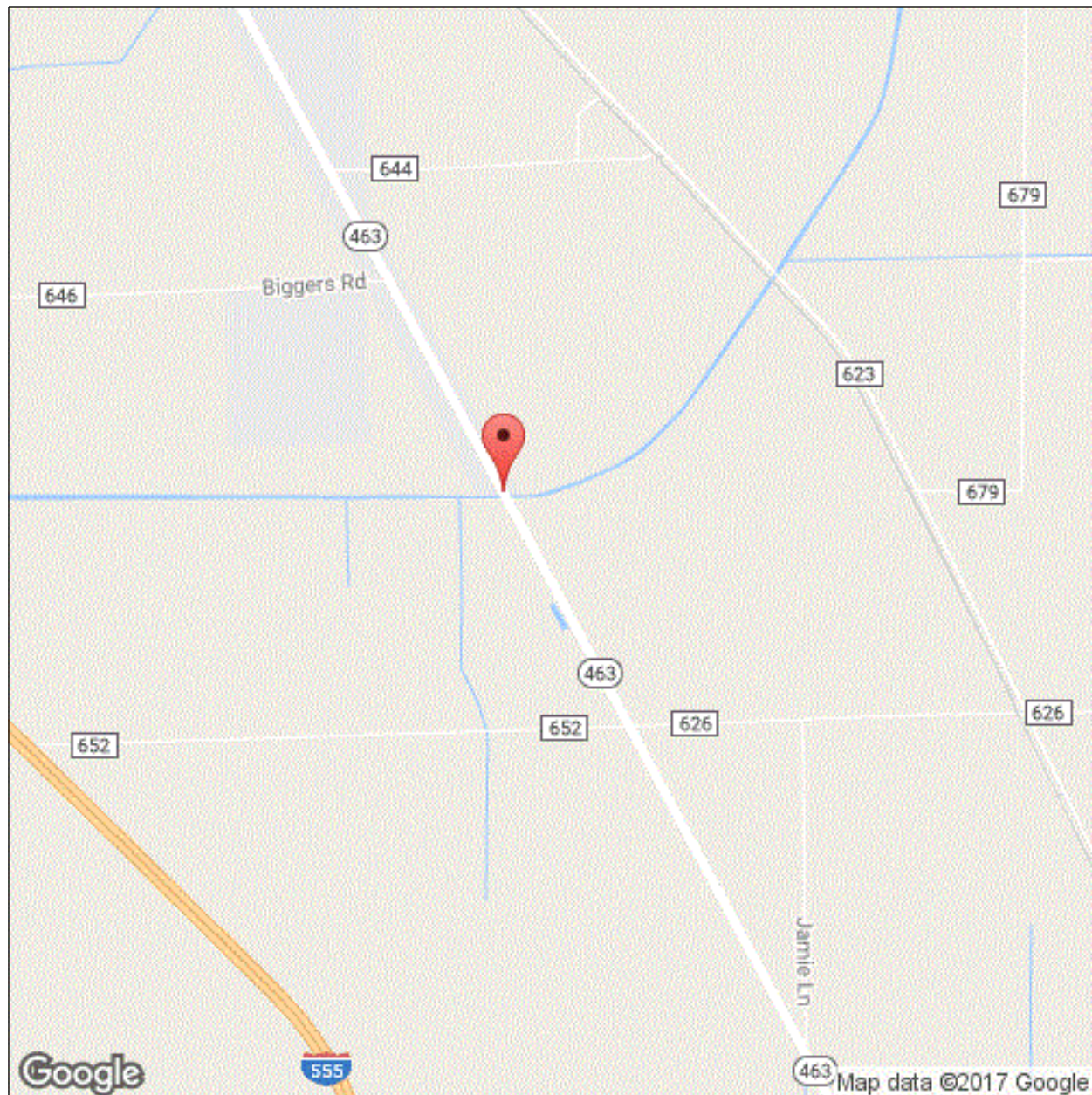
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Bridge Inspection Report

Executive Summary

Inspector:

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Bridge Inspection Report

National Bridge Inventory

| IDENTIFICATION | | INSPECTIONS | |
|---|-------------------------------------|---|---------------|
| (1) STATE CODE | 056 - Arkansas | (90) INSPECTION DATE | 01/03/2019 |
| (8) STRUCTURE NUMBER | A2014 | (91) DESIGNATED INSPECTION FREQUENCY | 24 |
| (5) INV. ROUTE (ON/UNDER) | 1 3 1 463 0 | (92) CRITICAL FEATURE INSPECTION | (93) CFI DATE |
| (2) HIGHWAY AGENCY | 10 (3) COUNTY CODE 031 | A. FRACTURE CRITICAL DETAIL | N |
| (4) PLACE CODE | 00000 | B. UNDERWATER INSPECTION | N |
| (6) FEATURES INTERSECTED | BIG BAY DITCH | C. OTHER SPECIAL | N |
| (7) FACILITY CARRIED | SH 463-01- LM 8.08 | | |
| (9) LOCATION | .59 MI N POINSETT CO LINE | | |
| (11) MILEPOINT 8.080 | (12) BASE HIGHWAY NETWORK 0 | | |
| (13A) LRS INVENTORY ROUTE | 0000000000 (13B) SUBROUTE NUMBER 00 | | |
| (16) LATITUDE 35.71379 | (17) LONGITUDE -90.54763 | | |
| (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: 1 - Concrete | | (59) SUPERSTRUCTURE | 5 |
| B) TYPE OF DESIGN/CONSTR: 04 - Tee Beam | | (60) SUBSTRUCTURE | 6 |
| (44) STRUCTURE TYPE, APPROACH SPANS | | (61) CHANNEL & CHANNEL PROTECTION | 6 |
| A) KIND OF MATERIAL/DESIGN: 0 - Other | | (62) CULVERT | N |
| 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 | 6 |
| (108B) DECK MEMBRANE | 0 | (108C) DECK PROTECTION | 0 |
| AGE OF SERVICE | | LOAD RATING AND POSTING | |
| (27) YEAR BUILT | 1937 | (106) YEAR RECONSTRUCTED | 1963 |
| (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 | 3600 | (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.) | 30 | (49) STRUCTURE LENGTH (ft.) | 152 |
| (50) CURB/SIDEWALK WIDTHS (ft.) | LEFT 1.5 RIGHT 1.5 | (67) STRUCTURAL EVALUATION | 5 |
| (51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) | 27.9 | (68) DECK GEOMETRY | 4 |
| (52) DECK WIDTH, OUT-TO-OUT (ft.) | 31 | (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL | N |
| (32) APPROACH ROADWAY WIDTH (ft.) | 40.0 | (71) WATERWAY ADEQUACY | 8 |
| (33) BRIDGE MEDIAN | 0 | (34) SKEW (DEG.) | 30 |
| (35) STRUCTURE FLARED | 0 | (10) INV RTE, MIN VERT CLEAR (ft.) | 99.99 |
| (47) TOTAL HORIZONTAL CLEARANCE (ft.) | 27.9 | (72) APPROACH ROADWAY ALIGNMENT | 8 |
| (53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) | 99.99 | (36) TRAFFIC SAFETY FEATURE | |
| (54) VERTICAL UNDER CLEARANCE (ft.) | N 0 | 36A) BRIDGE RAILINGS: | 0 |
| (55) LATERAL UNDER CLEARANCE RIGHT (ft.) | N 99.9 | 36B) TRANSITIONS: | 1 |
| (56) MIN LATERAL UNDER CLEARANCE (ft.) | 0 | 36C) APPROACH GUARDRAIL: | 1 |
| | | 36D) APPROACH GUARDRAIL ENDS: | 1 |
| | | (113) SCOUR CRITICAL BRIDGES | 5 |
| | | SUFFICIENCY RATING | 69.0 |
| | | STATUS | 0 |
| PROPOSED IMPROVEMENTS | | CLASSIFICATION | |
| (75A) TYPE OF WORK PROPOSED | 31 | (75B) WORK DONE BY | 1 |
| (76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) | 182.0 | (112) NBIS BRIDGE LENGTH | Y |
| (94) BRIDGE IMPROVEMENT COST (\$) | 0 | (104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE | 0 |
| (95) ROADWAY IMPROVEMENT COST (\$) | 400 | (26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE | 07 |
| (96) TOTAL PROJECT COST | 1130 | (100) STRAHNET HIGHWAY DESIGNATION | 0 |
| (97) YEAR OF IMPROVEMENT COST ESTIMATE | 1999 | (101) PARALLEL STRUCTURE DESIGNATION | N |
| (114) FUTURE ADT | 4965 | (102) DIRECTION OF TRAFFIC | 2 |
| (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 | 5 |
| | | (39) NAV VERT CLEARANCE (ft.) | 0 |
| | | (116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.) | 0 |
| | | (40) NAV HORIZONTAL CLEARANCE (ft.) | 0 |

Inspector:

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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 |
|---|-------------|----------------|---------|-------------------|-------------------|-------------------|-------------------|
| 16 - Reinforced Concrete Top Flange | 1- Ben. | 4716 | sq. ft. | 4258 | 154 | 304 | 0 |
| 1120 - Efflorescence/Rust Staining | | 304 | | | | 304 | |
| 1130 - Cracking (RC and Other) | | 154 | | | 154 | | |
| 510 - Wearing Surfaces | | 4259 | sq. ft. | 0 | 218 | 4041 | 0 |
| 3210 - Delamination/Spall/Patched Area/Pothole (Wearing Surfaces) | | 28 | | | | 28 | |
| 3220 - Crack (Wearing Surface) | | 218 | | | 218 | | |
| 3230 - Effectiveness (Wearing Surface) | | 4013 | | | | 4013 | |
| 110 - Reinforced Concrete Open Girder/Beam | 1- Ben. | 900 | ft. | 863 | 37 | 0 | 0 |
| 1090 - Exposed Rebar | | 2 | | | 2 | | |
| 1120 - Efflorescence/Rust Staining | | 35 | | | 35 | | |
| 215 - Reinforced Concrete Abutment | 1- Ben. | 83 | ft. | 73 | 10 | 0 | 0 |
| 1120 - Efflorescence/Rust Staining | | 4 | | | 4 | | |
| 1130 - Cracking (RC and Other) | | 6 | | | 6 | | |
| 227 - Reinforced Concrete Pile | 1- Ben. | 24 | each | 0 | 24 | 0 | 0 |
| 1130 - Cracking (RC and Other) | | 1 | | | 1 | | |
| 1190 - Abrasion/Wear (PSC/RC) | | 23 | | | 23 | | |
| 234 - Reinforced Concrete Pier Cap | 1- Ben. | 138 | ft. | 127 | 11 | 0 | 0 |
| 1090 - Exposed Rebar | | 4 | | | 4 | | |
| 1120 - Efflorescence/Rust Staining | | 1 | | | 1 | | |
| 1130 - Cracking (RC and Other) | | 6 | | | 6 | | |
| 304 - Open Expansion Joint | 1- Ben. | 205 | ft. | 205 | | | |
| 311 - Movable Bearing | 1- Ben. | 30 | each | 0 | 0 | 30 | 0 |
| 1000 - Corrosion | | 30 | | | | 30 | |
| 313 - Fixed Bearing | 1- Ben. | 30 | each | 0 | 0 | 30 | 0 |
| 1000 - Corrosion | | 30 | | | | 30 | |
| 330 - Metal Bridge Railing | 1- Ben. | 305 | ft. | 0 | 305 | 0 | 0 |
| 1000 - Corrosion | | 305 | | | 305 | | |

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Bridge Inspection Report

Pictures

PHOTO 1

Description

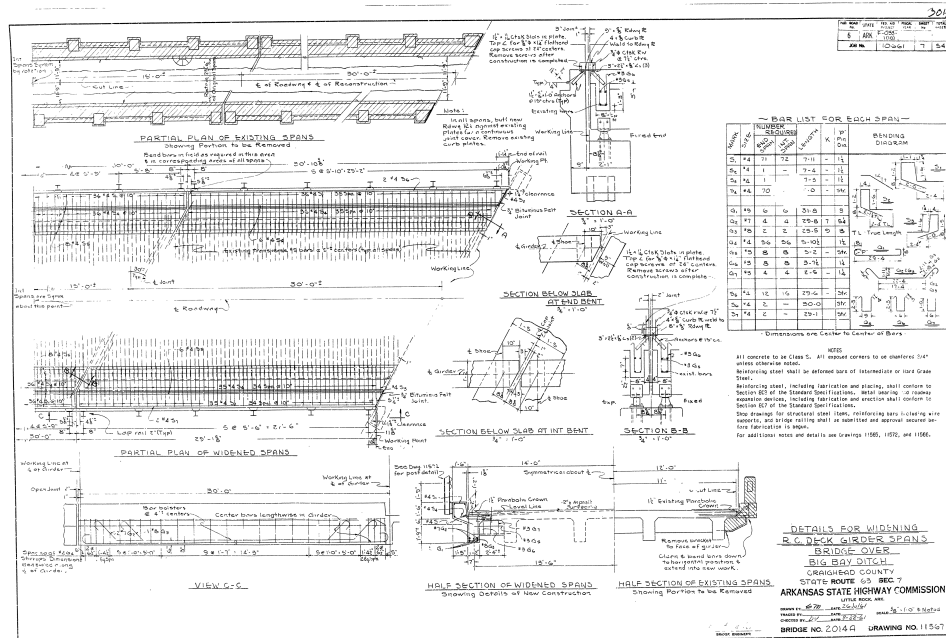


PHOTO 1

Description

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Bridge Inspection Report

Pictures

PHOTO 2

Description

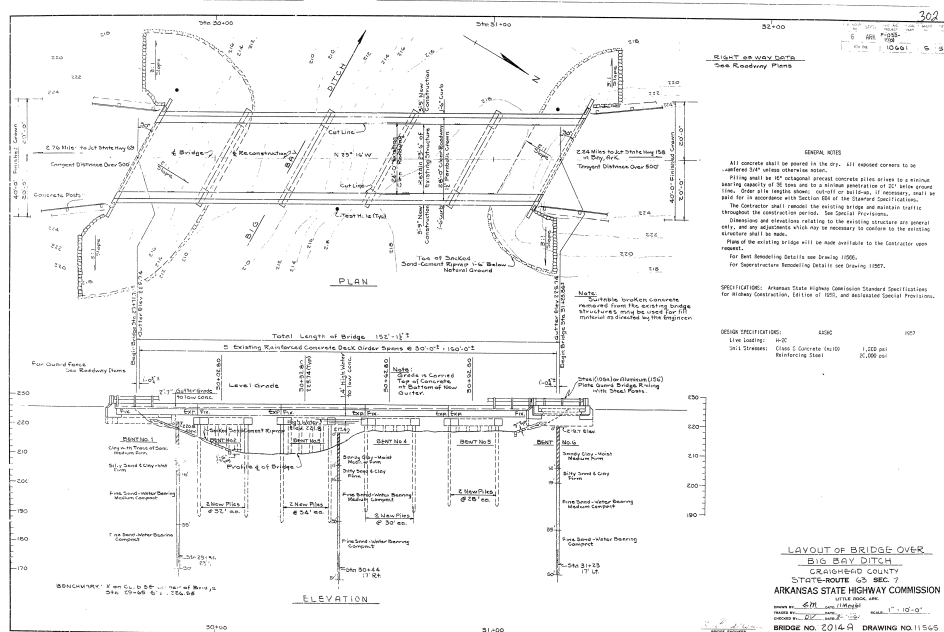


PHOTO 2

Description

Inspector:

Inspection Date:

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Bridge Inspection Report

Sketches

Inspector:

Structure Number: A2014

Inspection Date:

Facility Carried: SH 463-01- LM 8.08

Bridge Inspection Report

Maintenance Needs

Date Reported: 01/05/2017

Priority: C - Important

Work Code:

Deficiency Description:

End of Girder 6 Span 2 over Bent 2
has deteriorated and shelled out with rebar exposed, see photo 2017.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

Inspector:

Structure Number: A2014

Inspection Date:

Facility Carried: SH 463-01- LM 8.08

Bridge Inspection Report

Maintenance Needs

Date Reported: 1/28/2011 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Rocker Bearings Bents 2,4 & 5
are rusted with some section loss and tilted up to 16 degrees, see photo 2007.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 1/28/2011 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Majority of Bearings
have rust with some section loss due to heavy joint leakage.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 1/28/2011 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Deck Joints all Bents
has joint material deteriorated and loose causing heavy joint leakage.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

Structure Number: A2014

Inspection Date:

Facility Carried: SH 463-01- LM 8.08

Bridge Inspection Report

Maintenance Needs

Date Reported: 1/28/2011 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Asphalt Overlay Top of Deck

has several small depressed areas in Rt wheelpath of SB lane, 1 1/2 in. deep typical, mostly Spans 3 ,4 & 5, possible partial deck failures. Several cracks bottom of deck with efflorescence and some salt cicles.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 1/23/2013 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Majority of Girders over Bents 2, 4 & 5
are butted together

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 1/23/2013 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Bents 1 & 6 Abutments
have 2 vertical cracks thru cap under girders 3 & 4.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

Structure Number: A2014

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Bridge Inspection Report

Maintenance Needs

Date Reported: 1/15/2015 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Back Wall Bent 6, south west corner of bridge roadway,
has a 9in. x 4in. hole from deterioration of Back Wall, see 2015 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

Structure Number: A2014

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 01/05/2017

Priority: C - Important

Work Code:

Deficiency Description:

Span 2 left lane at bent 3 has a 1 ft. wide x 4 ft. long x 2 in. deep spall with exposed rebar. See photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description