

# Bridge Inspection Report

**A6337**  
**I-555-02SB-LM23.72**  
**over**  
**SH 463**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

## TABLE OF CONTENTS

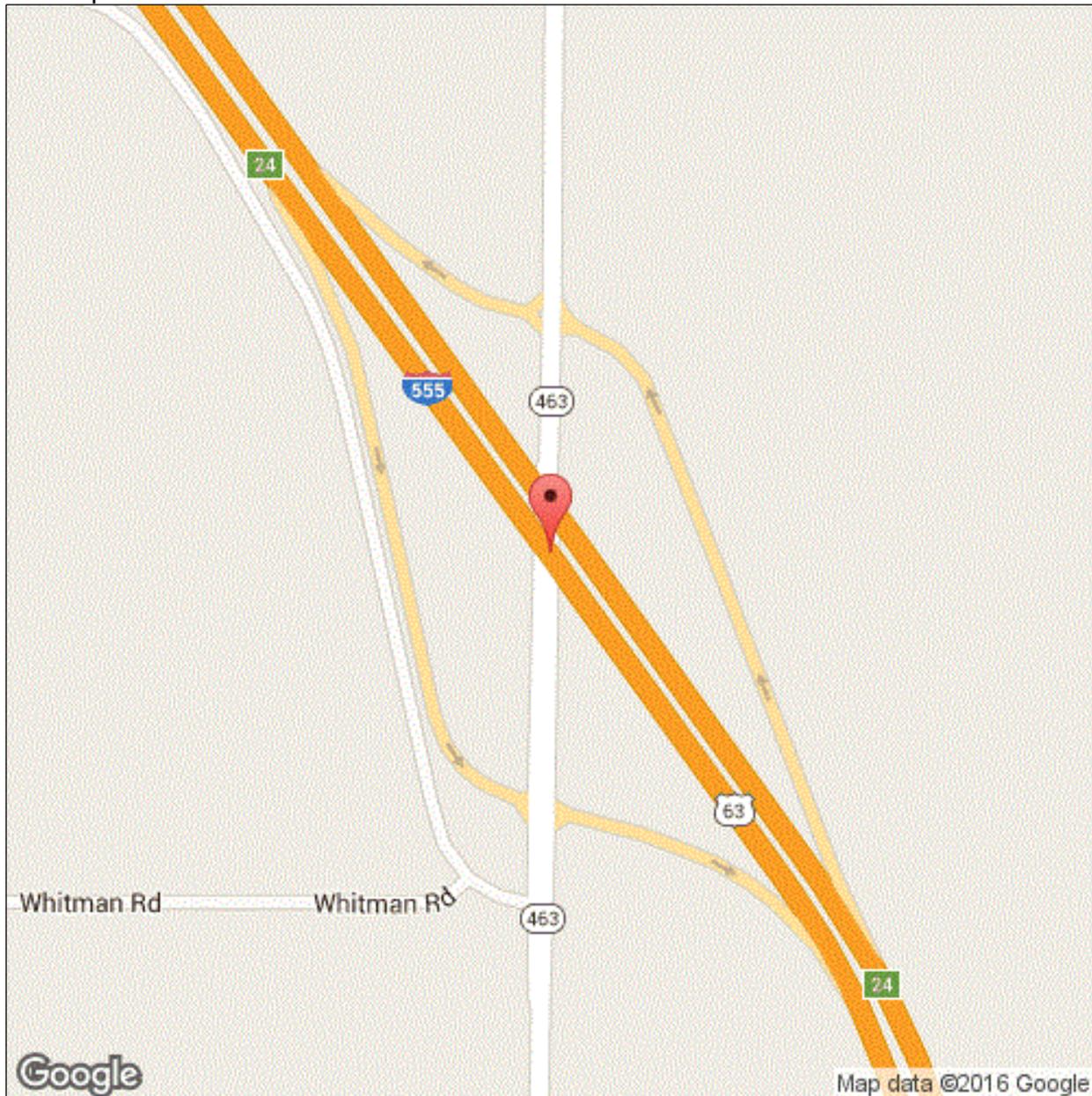
|                           | PAGE NUMBER |
|---------------------------|-------------|
| LOCATION MAP              | 3           |
| NATIONAL BRIDGE INVENTORY | 7           |
| ELEMENTS                  | 9           |
| PICTURES                  | 10          |
| SKETCHES                  | 11          |

Inspector:  
Inspection Date:

Structure Number: A6337  
Facility Carried: I-555-02SB-  
LM23.72

### Bridge Inspection Report

#### Location Map



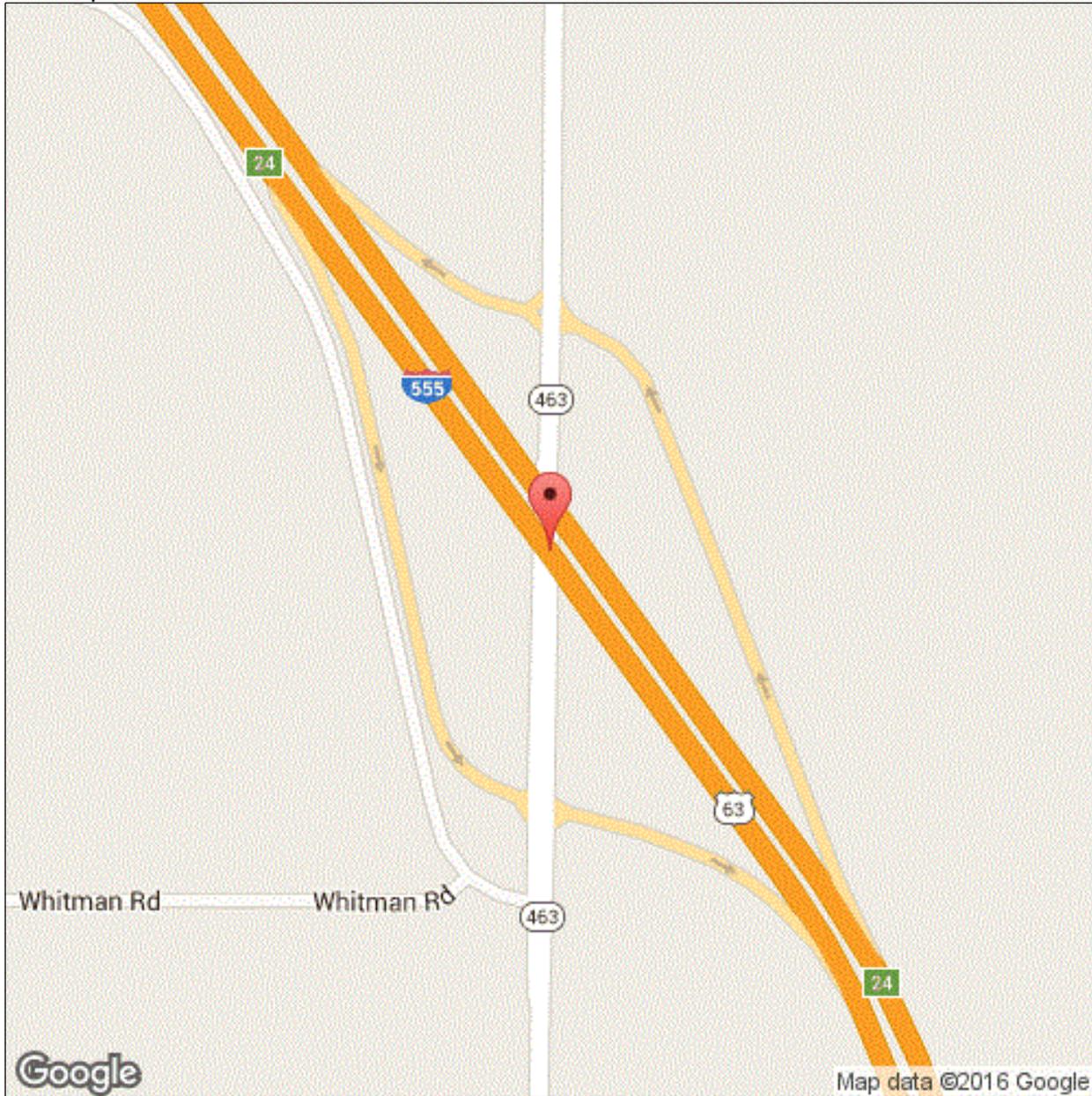
Latitude: 35.63021  
Longitude: -90.50051

Inspector:  
Inspection Date:

Structure Number: A6337  
Facility Carried: I-555-02SB-  
LM23.72

Bridge Inspection Report

Location Map



Latitude: 35.63021  
Longitude: -90.50051

Inspector:

Inspection Date:

Structure Number: A6337

Facility Carried: I-555-02SB-  
LM23.72

## Bridge Inspection Report

### Executive Summary

Inspector:

Structure Number: A6337

Inspection Date:

Facility Carried: I-555-02SB-LM23.72

Bridge Inspection Report

National Bridge Inventory

| IDENTIFICATION                                    |                                    |                                    |           | INSPECTIONS   |               |                   |      |
|---|------------------------------------|------------------------------------|-----------|---|---------------|-------------------|------|
| (1) STATE CODE                                    | 056 - Arkansas                     |                                    |           | (90) INSPECTION DATE  | 05/17/2016    |                   |      |
| (8) STRUCTURE NUMBER                              | A6337                              |                                    |           | (91) DESIGNATED INSPECTION FREQUENCY                        | 24            |                   |      |
| (5) INV. ROUTE (ON/UNDER)                         | 1                                  | 1                                  | 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                          | SH 463                             |                                    |           | C. OTHER SPECIAL  | N             |                   |      |
| (7) FACILITY CARRIED                              | I-555-02SB-LM23.72                 |                                    |           | CONDITION   |               |                   |      |
| (9) LOCATION                                      | 2.5 MI S OF TRUMANN                |                                    |           | (58) DECK   | 7             |                   |      |
| (11) MILEPOINT                                    | 23.72                              | (12) BASE HIGHWAY NETWORK          | 1         | (59) SUPERSTRUCTURE   | 7             | (60) SUBSTRUCTURE | 7    |
| (13A) LRS INVENTORY ROUTE                         | 0000063080                         | (13B) SUBROUTE NUMBER              | 00        | (61) CHANNEL & CHANNEL PROTECTION                           | N             | (62) CULVERT      | N    |
| (16) LATITUDE                                     | 35.63021                           | (17) LONGITUDE                     | -90.50051 | LOAD RATING AND POSTING                                     |               |                   |      |
| (98A) BORDER BRIDGE CODE                          |                                    |                                    |           | (31) DESIGN LOAD  | 5             |                   |      |
| PERCENT RESPONSIBILITY                            | (99) BORDER BRIDGE STRUCT          |                                    |           | (63) METHOD USED TO DETERMINE OPERATING RATING              | 1             |                   |      |
| STRUCTURE TYPE AND MATERIAL                       |                                    |                                    |           | (64) OPERATING RATING                                       | 56.0          |                   |      |
| (43) STRUCTURE TYPE, MAIN                         |                                    |                                    |           | (65) METHOD USED TO DETERMINE INVENTORY RATING              | 1             |                   |      |
| A) KIND OF MATERIAL/DESIGN:                       | 4 - Steel continuous               |                                    |           | (66) INVENTORY RATING                                       | 33.0          |                   |      |
| 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                 | 4             |                   |      |
| (108B) DECK MEMBRANE                              | 0                                  | (108C) DECK PROTECTION             | 0         | (71) WATERWAY ADEQUACY                                      | N             |                   |      |
| AGE OF SERVICE                                    |                                    |                                    |           | (72) APPROACH ROADWAY ALIGNMENT                             | 8             |                   |      |
| (27) YEAR BUILT                                   | 1992                               | (106) YEAR RECONSTRUCTED           | 0000      | (36) TRAFFIC SAFETY FEATURE                                 |               |                   |      |
| (42) TYPE OF SERVICE                              | ON 1                               | UNDER                              | 1         | 36A) BRIDGE RAILINGS:                                       | 1             |                   |      |
| (28) LANES  | ON 02                              | UNDER                              | 02        | 36B) TRANSITIONS:   | 1             |                   |      |
| (29) AVERAGE DAILY TRAFFIC                        | 12000                              | (19) BYPASS DETOUR LENGTH          | 1         | 36C) APPROACH GUARDRAIL:                                    | 1             |                   |      |
| (30) YEAR OF AVERAGE DAILY TRAFFIC                | 2014                               |                                    |           | 36D) APPROACH GUARDRAIL ENDS:                               | 1             |                   |      |
| (109) AVERAGE DAILY TRUCK TRAFFIC                 | 1                                  |                                    |           | (113) SCOUR CRITICAL BRIDGES                                | N             |                   |      |
| GEOMETRIC DATA                                    |                                    |                                    |           | SUFFICIENCY RATING  | 0             | STATUS            | 93.5 |
| (48) LENGTH OF MAX SPAN (ft.)                     | 122                                | (49) STRUCTURE LENGTH (ft.)        | 312       | 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.)                   | 53        | (101) PARALLEL STRUCTURE DESIGNATION                        | R             |                   |      |
| (35) STRUCTURE FLARED                             | 0                                  | (10) INV RTE, MIN VERT CLEAR (ft.) | 99.99     | (102) DIRECTION OF TRAFFIC                                  | 1             |                   |      |
| (47) TOTAL HORIZONTAL CLEARANCE (ft.)             | 41.0                               |                                    |           | (103) TEMP STRUCTURE  |               |                   |      |
| (53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) | 99.99                              |                                    |           | (105) FEDERAL LANDS HIGHWAYS                                | 0             |                   |      |
| (54) VERTICAL UNDER CLEARANCE (ft.)               |                                    | H                                  | 16.92     | (110) DESIGNATED NATIONAL NETWORK                           | 1             |                   |      |
| (55) LATERAL UNDER CLEARANCE RIGHT (ft.)          |                                    | H                                  | 5.6       | (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                                     | N             |                   |      |
| (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             |                   |      |

Inspector:  
Inspection Date:

Structure Number: A6337  
Facility Carried: I-555-02SB-  
LM23.72

Bridge Inspection Report

National Bridge Inventory

UNDER RECORD 2

IDENTIFICATION

|                           |                |                           |                                      |
|---------------------------|----------------|---------------------------|--------------------------------------|
| (1) STATE CODE            | 056 - Arkansas | (7) FACILITY CARRIED      | I-555-02SB-LM23.72                   |
| (3) COUNTY CODE           | 111            | (8) STRUCTURE NUMBER      | A6337                                |
| (4) PLACE CODE            | 00000          | (9) LOCATION              | 2.5 MI S OF TRUMANN                  |
| (5) INV. ROUTE (ON/UNDER) | 2 3 1 463 3    | (11) MILEPOINT            | 6.060 (12) BASE HIGHWAY NETWORK 0    |
| (6) FEATURES INTERSECTED  | SH 463         | (13A) LRS INVENTORY ROUTE | 0000000000 (13B) SUBROUTE NUMBER 00  |
|                           |                | (16) LATITUDE             | 35. (17) LONGITUDE -90.5010833333333 |
|                           |                |                           | 6308333333333                        |

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  | 0              | (30) YEAR OF AVERAGE DAILY TRAFFIC | 2014         |
| (27) YEAR BUILT            | 1992           | (42) TYPE OF SERVICE               | ON 1 UNDER 1 |
| (28) LANES                 | ON 02 UNDER 02 | (109) AVERAGE DAILY TRUCK TRAFFIC  | 1            |
| (29) AVERAGE DAILY TRAFFIC | 660            |                                    |              |

GEOMETRIC DATA

|                                  |      |                             |                           |     |
|----------------------------------|------|-----------------------------|---------------------------|-----|
| (10) INV RTE, MIN VERT CLEARANCE | 16.9 | (48) LENGTH OF MAXIMUM SPAN | 122 (49) STRUCTURE LENGTH | 312 |
| (47) TOTAL HORIZONTAL CLEARANCE  | 43.7 |                             |                           |     |

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              | R  | (110) DESIGNATED NATIONAL NETWORK           | 0 |

Inspector:

Structure Number: A6337

Inspection Date:

Facility Carried: I-555-02SB-  
LM23.72

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.     | 13353          | sq. ft. | 11473             | 1880              | 0                 | 0                 |
| 1130 - Cracking (RC and Other)                   |             | 1880           |         |                   | 1880              |                   |                   |
| 107 - Steel Open Girder/Beam                     | 1- Ben.     | 1848           | ft.     | 1848              |                   |                   |                   |
| 515 - Steel Protective Coating                   |             | 16158          | sq. ft. | 14546             | 1612              | 0                 | 0                 |
| 3440 - Effectiveness (Steel Protective Coatings) |             | 1612           |         |                   | 1612              |                   |                   |
| 205 - Reinforced Concrete Column                 | 1- Ben.     | 6              | each    | 6                 |                   |                   |                   |
| 215 - Reinforced Concrete Abutment               | 1- Ben.     | 176            | ft.     | 176               |                   |                   |                   |
| 234 - Reinforced Concrete Pier Cap               | 1- Ben.     | 132            | ft.     | 132               |                   |                   |                   |
| 305 - Assembly Joint without Seal                | 1- Ben.     | 133            | ft.     | 133               |                   |                   |                   |
| 310 - Elastomeric Bearing                        | 1- Ben.     | 24             | each    | 24                |                   |                   |                   |
| 331 - Reinforced Concrete Bridge Railing         | 1- Ben.     | 624            | ft.     | 624               |                   |                   |                   |

Inspector:

Inspection Date:

Structure Number: A6337

Facility Carried: I-555-02SB-  
LM23.72

Bridge Inspection Report

Pictures

Inspector:

Inspection Date:

Structure Number: A6337

Facility Carried: I-555-02SB-  
LM23.72

Bridge Inspection Report

Sketches

Inspector:  
Inspection Date:

Structure Number: A6337  
Facility Carried: I-555-02SB-  
LM23.72

Bridge Inspection Report

**Maintenance Needs**

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

Priority: C - Important

Work Code:

---

Deficiency Description:

Bent 1 has 9ft. of sliding plate removed and replaced with concrete, ( 16 in. x 14 in. x 2 in deep). Section of concrete is missing reported 2012 was repaired, see 2014 photo.

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

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

Priority: C - Important

Work Code:

---

Deficiency Description:

Bent 4 south bridge end  
Has excessive vibration and movement to sliding plate, mostly Right lane. Some joint spalls up to a 1in. deep with no rebar exposed, some are repaired with asphalt, see 2014 photo.

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

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

Priority: C - Important

Work Code:

---

Deficiency Description:

Span 2 Girder 6 Splice 1  
Has 2 splice bolts rusted, possibly loose Bottom Flange and 1 splice bolt loose in Web.

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Inspector:  
Inspection Date:

Structure Number: A6337  
Facility Carried: I-555-02SB-  
LM23.72

Bridge Inspection Report

**Maintenance Needs**

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

Priority: D - Routine

Work Code:

---

Deficiency Description:

Approach Roadway near Bent 1 has heavy cracking with up to 1 1/2in. settlement to the left lane near left concrete gutter.

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

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

Priority: D - Routine

Work Code:

---

Deficiency Description:

Top of Deck has several minor size and density sealable cracks

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

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

Priority: D - Routine

Work Code:

---

Deficiency Description:

Majority of Girders and Bearings have freckled rust, 10% paint deterioration

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Inspector:

Inspection Date:

Structure Number: A6337

Facility Carried: I-555-02SB-  
LM23.72

Bridge Inspection Report

**Maintenance Needs**

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

Priority: G - General/ Preventive maintenance

Work Code:

---

Deficiency Description:

Majority of Diaphragms have some rust.

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---