

Bridge Inspection Report

02873

SH 77-02- LM 5.97

over

LITTLE RIVER



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: 02873

Inspection Date:

Facility Carried: SH 77-02- LM 5.97

Bridge Inspection Report

National Bridge Inventory

| IDENTIFICATION | | | | | INSPECTIONS | | | | |
|---|------------------------------------|------------------------------------|-----------------------|----|---|---|-----------------------------------|-------------------|---|
| (1) STATE CODE | 056 - Arkansas | | | | (90) INSPECTION DATE | 10/01/2015 | | | |
| (8) STRUCTURE NUMBER | 02873 | | | | (91) DESIGNATED INSPECTION FREQUENCY | 24 | | | |
| (5) INV. ROUTE (ON/UNDER) | 1 | 3 | 1 | 77 | 0 | (92) CRITICAL FEATURE INSPECTION | (93) CFI DATE | | |
| (2) HIGHWAY AGENCY | 10 | (3) COUNTY CODE | 093 | | | A. FRACTURE CRITICAL DETAIL | N | | |
| (4) PLACE CODE | 00000 | | | | B. UNDERWATER INSPECTION | N | | | |
| (6) FEATURES INTERSECTED | LITTLE RIVER | | | | C. OTHER SPECIAL | Y | 60 | 10/01/2015 | |
| (7) FACILITY CARRIED | SH 77-02- LM 5.97 | | | | CONDITION | | | | |
| (9) LOCATION | .75 MI N JCT OF SH 158 | | | | (58) DECK | 5 | | | |
| (11) MILEPOINT | 5.970 | (12) BASE HIGHWAY NETWORK | 0 | | | (59) SUPERSTRUCTURE | 5 | (60) SUBSTRUCTURE | 5 |
| (13A) LRS INVENTORY ROUTE | 0000000000 | | (13B) SUBROUTE NUMBER | 00 | | (61) CHANNEL & CHANNEL PROTECTION | 5 | (62) CULVERT | N |
| (16) LATITUDE | 35.78936 | (17) LONGITUDE | -90.17813 | | | LOAD RATING AND POSTING | | | |
| (98A) BORDER BRIDGE CODE | | | | | (31) DESIGN LOAD | 2 | | | |
| PERCENT RESPONSIBILITY | (99) BORDER BRIDGE STRUCT | | | | (63) METHOD USED TO DETERMINE OPERATING RATING | 1 | | | |
| STRUCTURE TYPE AND MATERIAL | | | | | (64) OPERATING RATING | 46.0 | | | |
| (43) STRUCTURE TYPE, MAIN | | | | | (65) METHOD USED TO DETERMINE INVENTORY RATING | 1 | | | |
| A) KIND OF MATERIAL/DESIGN: | 3 - Steel | | | | (66) INVENTORY RATING | 28.0 | | | |
| 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 | 5 | | | |
| (45) NUMBER OF SPANS IN MAIN | 3 | (46) NUMBER OF APPROACH | 0 | | | (68) DECK GEOMETRY | 4 | | |
| (107) DECK STRUCTURE TYPE | 1 | (108A) WEARING SURFACE | 6 | | | (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL | N | | |
| (108B) DECK MEMBRANE | 0 | (108C) DECK PROTECTION | 0 | | | (71) WATERWAY ADEQUACY | 9 | | |
| AGE OF SERVICE | | | | | (72) APPROACH ROADWAY ALIGNMENT | 8 | | | |
| (27) YEAR BUILT | 1954 | (106) YEAR RECONSTRUCTED | 0000 | | | (36) TRAFFIC SAFETY FEATURE | | | |
| (42) TYPE OF SERVICE | ON 1 | UNDER 5 | | | | 36A) BRIDGE RAILINGS: | 0 | | |
| (28) LANES | ON 02 | UNDER 00 | | | | 36B) TRANSITIONS: | 0 | | |
| (29) AVERAGE DAILY TRAFFIC | 1500 | (19) BYPASS DETOUR LENGTH | 13 | | | 36C) APPROACH GUARDRAIL: | 0 | | |
| (30) YEAR OF AVERAGE DAILY TRAFFIC | 2014 | | | | 36D) APPROACH GUARDRAIL ENDS: | 0 | | | |
| (109) AVERAGE DAILY TRUCK TRAFFIC | 1 | | | | (113) SCOUR CRITICAL BRIDGES | 5 | | | |
| GEOMETRIC DATA | | | | | SUFFICIENCY RATING | 0 | STATUS | 59.5 | |
| (48) LENGTH OF MAX SPAN (ft.) | 40 | (49) STRUCTURE LENGTH (ft.) | 122 | | | CLASSIFICATION | | | |
| (50) CURB/SIDEWALK WIDTHS (ft.) | LEFT 1 | RIGHT 1 | | | | (112) NBIS BRIDGE LENGTH | Y | | |
| (51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) | | | | | 24.0 | (104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE | 0 | | |
| (52) DECK WIDTH, OUT-TO-OUT (ft.) | | | | | 28.8 | (26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE | 07 | | |
| (32) APPROACH ROADWAY WIDTH (ft.) | | | | | 27.9 | (100) STRAHNET HIGHWAY DESIGNATION | 0 | | |
| (33) BRIDGE MEDIAN | 0 | (34) SKEW (DEG.) | 20 | | | (101) PARALLEL STRUCTURE DESIGNATION | N | | |
| (35) STRUCTURE FLARED | 0 | (10) INV RTE, MIN VERT CLEAR (ft.) | 99.99 | | | (102) DIRECTION OF TRAFFIC | 2 | | |
| (47) TOTAL HORIZONTAL CLEARANCE (ft.) | | | | | 25.3 | (103) TEMP STRUCTURE | | | |
| (53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) | | | | | 99.99 | (105) FEDERAL LANDS HIGHWAYS | 0 | | |
| (54) VERTICAL UNDER CLEARANCE (ft.) | | | | | N | 0 | (110) DESIGNATED NATIONAL NETWORK | 0 | |
| (55) LATERAL UNDER CLEARANCE RIGHT (ft.) | | | | | N | 99.9 | (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 | 1586 | (115) YEAR OF FUTURE ADT | 2028 | | | (40) NAV HORIZONTAL CLEARANCE (ft.) | 0 | | |

Inspector:

Structure Number: 02873

Inspection Date:

Facility Carried: SH 77-02- LM 5.97

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. | 3514 | sq. ft. | 2360 | 601 | 553 | 0 |
| <p>Concrete Deck with Asphalt Overlay has 3ft. x 10ft. area of heavy cracking and impending spall in left lane of Span 1.</p> <p>Span 1 left Gutter line has a 2ft. x 1ft. spall without rebar exposed and a 2.5ft. x 28ft. x 2in. deep spall with exposed rebar with section loss, see 2015 photo.</p> <p>Span 1 right Gutter line has a 1ft. x 12ft. x 1in. deep spall without rebar exposed and has a 2.5ft. x 19ft. x 2in. deep and a 2.5ft. x 8ft. x 2in. deep and a 2ft. diameter x 2in. deep spall with exposed rebar, see 2015 photo.</p> <p>Span 3 left Gutter line has a 20ft. x 1ft. x 2in. deep spall with exposed rebar.</p> <p>Span 3 right Gutter line has a 2ft. diameter and a 1.5 diameter spall 2in. deep with rebar exposed.</p> <p>Deck has open sealable cracks thru Asphalt over Joints with several small spalls in asphalt.</p> <p>Concrete Soffit Span 1 between Girders 4&5 has 2ft. wide x 20ft. long x 2in. deep shelled out bottom of deck with rebar exposed, See photo 2015.</p> <p>Span 1 left Overhang has an area 1.5ft. wide x 4ft. long x 2in. deep shelled out area with rebar exposed, 30% section loss to rebar.</p> <p>Span 3 left Overhang has a 1ft. x 1.5ft. x 2in. deep shelled out area with rebar exposed.</p> <p>Bottom of Deck has numerous cracks with efflorescence.</p> | | | | | | | |
| 1080 - Delamination/Spall/Patched Area | | 94 | | | 94 | | |
| 1090 - Exposed Rebar | | 233 | | | | 233 | |
| 1120 - Efflorescence/Rust Staining | | 320 | | | | 320 | |
| 1130 - Cracking (RC and Other) | | 507 | | | 507 | | |
| 510 - Wearing Surfaces | | 2932 | sq. ft. | 2902 | | 30 | 0 |
| 3220 - Crack (Wearing Surface) | | 30 | | | | 30 | |

Inspector:

Structure Number: 02873

Inspection Date:

Facility Carried: SH 77-02- LM 5.97

Bridge Inspection Report

Element Inspection

| 107 - Steel Open Girder/Beam | 1- Ben. | 600 | ft. | 204 | 150 | 246 | 0 |
|---|---------|------|---------|-----|------|------|-----|
| <p>Ends of majority of Girders Spans 1, 2, & 3 over Caps Bents 2&3 are rusted with up to 1/4in. section loss to web and bottom flange 2ft. to 2.5ft. on ends.</p> <p>Exterior girders have heavy rust especially under drain opening.</p> <p>Majority of Span 1 Girders have up to 5/8in. section loss to girders, Span 1 Girder 5 has the mid span with section loss to web and flanges, see 2015 photo.</p> <p>Span 3 Girder 5 has the mid span with section loss to web and flanges, some areas are knife edged.</p> <p>Span 1 Girder 3 Bent 1 has 1in. x 1/2in. hole in web near concrete diaphragm, see 2015 photo.</p> <p>Span 1 Girder 5 Bent 1 has 1/2in. diameter hole in web near concrete diaphragm, see 2015 photo.</p> <p>Span 1 Girder 1 Bent 2 has 3/4in. x 1in. hole in web near concrete diaphragm, see 2015 photo.</p> <p>Span 1 Girder 2 Bent 2 has 2in. x 1in. hole in web at haunch, see 2015 photo.</p> <p>Span 1 Girder 3 Bent 2 has 5 1/2in. x 1in. hole rusted thru web at haunch, see 2015 photo.</p> <p>Spans 1&2 Girder 5 Bent 2 has 1/8in. section loss to bottom flange.</p> <p>Span 2 Girder 1 Bent 2 rusted with 3in. x 1 1/4in. hole rusted thru web at haunch, see 2015 photo.</p> <p>Span 2 Girder 3 Bent 2 rusted with 2in. x 1/2in. hole rusted thru web at haunch and a 1 1/2in. x 2in. hole in left bottom flange, see 2015 photo.</p> <p>Span 2 Girder 4 Bent 2 has an 8in. x 1in. hole in web at haunch, see 2015 photo.</p> <p>Span 2 Girder 1 Bent 3 has 9in. x 2 1/2 in. hole rusted thru web at haunch, see 2015 photo.</p> <p>Span 2 Girder 2 Bent 3 has 1in. x 3/4in. hole rusted thru web at haunch, see 2015 photo.</p> <p>Span 2 Girder 3 Bent 3 has 1in. x 1 1/2in. hole rusted thru web at haunch, see 2015 photo.</p> <p>Span 2 Girder 5 Bent 3 has 7in. x 1 1/4in. hole rusted thru web at haunch, see 2015 photo.</p> <p>Span 3 Girder 2 Bent 3 has 1/2in. diameter hole rusted thru web at haunch, see 2015 photo.</p> <p>Span 3 Girder 3 Bent 3 has 5in. x 3/4in. hole rusted thru web at haunch, see 2015 photo.</p> <p>Span 3 Girder 4 Bent 3 has 3in. x 3/4in. hole rusted thru web at haunch, see 2015 photo.</p> <p>Span 3 Girder 5 Bent 3 has 6in. x 2in. hole rusted thru web at haunch, see 2015 photo.</p> <p>Span 3 Girder 1 Bent 4 has 10in. x 1 1/2in. hole in web near concrete diaphragm, see 2015 photo.</p> <p>Span 3 Girder 3 Bent 4 has 5in. x 1in. hole in web near concrete diaphragm, see 2015 photo.</p> <p>Span 3 Girder 5 Bent 4 has 5in. x 3/4in. hole in web near concrete diaphragm, see 2015 photo.</p> <p>Several Girders and Majority of Span 3 Girders have up to 1/8in. section loss to girders,</p> | | | | | | | |
| 1000 - Corrosion | | 396 | | | 150 | 246 | |
| 515 - Steel Protective Coating | | 4523 | sq. ft. | 0 | 3145 | 1266 | 112 |
| 3440 - Effectiveness (Steel Protective Coatings) | | 4523 | | | 3145 | 1266 | 112 |

Inspector:

Structure Number: 02873

Inspection Date:

Facility Carried: SH 77-02- LM 5.97

Bridge Inspection Report

Element Inspection

| | | | | | | | |
|---|--|-----|------|-----|----|----|---|
| 215 - Reinforced Concrete Abutment | 1- Ben. | 82 | ft. | 0 | 42 | 40 | 0 |
| | Bent 1 Abutment Cap has 3LF cracks. Heavy erosion due to Roadway Runoff Bents 1, up to 3ft. deep x 2.5ft. back under Abutments, see 2015 photo. Heavy erosion due to Roadway Runoff Bents 4, up to 2ft. deep x 2ft. back under Abutments, see 2015 photo. | | | | | | |
| 1130 - Cracking (RC and Other) | | 2 | | | 2 | | |
| 6000 - Scour | | 80 | | | 40 | 40 | |
| 227 - Reinforced Concrete Pile | 1- Ben. | 10 | each | 10 | | | |
| 234 - Reinforced Concrete Pier Cap | 1- Ben. | 53 | ft. | 32 | 17 | 4 | 0 |
| | Cap Bent 2 has some abrasion wear. Left end of Cap Bent 3 has a 2ft. x 6in. spall with no rebar exposed and a 4ft. x 1.5ft. x 4in. deep spall face of cap under girder 4 with rebar exposed and some cracking with impending spalls. (3ft. cracks, 10ft. abrasion wear) | | | | | | |
| 1080 - Delamination/Spall/Patched Area | | 2 | | | 2 | | |
| 1090 - Exposed Rebar | | 4 | | | | 4 | |
| 1130 - Cracking (RC and Other) | | 15 | | | 15 | | |
| 304 - Open Expansion Joint | 1- Ben. | 110 | ft. | 110 | | | |
| | Steel Open Joints are rusted with some section loss, only 2.5ft. of each open joint is visible for inspection due to asphalt overlay. | | | | | | |
| 311 - Movable Bearing | 1- Ben. | 15 | each | 0 | | 15 | 0 |
| | Majority of Bearings are rusted with some section loss. Span 3 Girder 1 Bearing Bent 3 has 1 anchor bolt and nut missing. | | | | | | |
| 1000 - Corrosion | | 14 | | | | 14 | |
| 1020 - Connection | | 1 | | | | 1 | |
| 313 - Fixed Bearing | 1- Ben. | 15 | each | 0 | | 15 | 0 |
| | Majority of Bearings are rusted with some section loss. Span 1 Girders 2, 3, & 4 Bearings Bent 1 has 100% section loss to anchor bolts and nuts. Span 3 Girder 3 Bearing Bent 4 has heavy rust with areas of 50% section loss, see 2015 photo. | | | | | | |
| 1000 - Corrosion | | 12 | | | | 12 | |
| 1020 - Connection | | 3 | | | | 3 | |
| 333 - Other Bridge Railing | 1- Ben. | 245 | ft. | 245 | | | |

Inspector:

Inspection Date:

Structure Number: 02873

Facility Carried: SH 77-02- LM 5.97

Bridge Inspection Report

Pictures



Inspector:

Structure Number: 02873

Inspection Date:

Facility Carried: SH 77-02- LM 5.97

Bridge Inspection Report

Maintenance Needs

Date Reported: 10/20/2011 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Fixed Bearing

Span 1 Girders 2, 3, & 4 Bearings Bent 1 has 100% section loss to anchor bolts and nuts.

Span 3 Girder 3 Bearing Bent 4 has heavy rust with areas of 50% section loss, see 2015 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description 02873 09-30-2015 Span 3 girder 3 at bent 4 bearing.

Inspector:

Structure Number: 02873

Inspection Date:

Facility Carried: SH 77-02- LM 5.97

Bridge Inspection Report

Maintenance Needs

Date Reported: 10/20/2011 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Span 1 Girder 3 Bent 1 has 1in. x 1/2in. hole in web near concrete diaphragm, see 2015 photo.
Span 1 Girder 5 Bent 1 has 1/2in. diameter hole in web near concrete diaphragm, see 2015 photo.
Span 1 Girder 1 Bent 2 has 3/4in. x 1in. hole in web near concrete diaphragm, see 2015 photo.
Span 1 Girder 2 Bent 2 has 2in. x 1in. hole in web at haunch, see 2015 photo.
Span 1 Girder 3 Bent 2 has 5 1/2in. x 1in. hole rusted thru web at haunch, see 2015 photo.
Spans 1&2 Girder 5 Bent 2 has 1/8in. section loss to bottom flange.
Span 2 Girder 1 Bent 2 rusted with 3in. x 1 1/4in. hole rusted thru web at haunch, see 2015 photo.
Span 2 Girder 3 Bent 2 rusted with 2in. x 1/2in. hole rusted thru web at haunch and a 1 1/2in. x 2in. hole in left bottom flange, see 2015 photo.
Span 2 Girder 4 Bent 2 has an 8in. x 1in. hole in web at haunch, see 2015 photo.
Span 2 Girder 1 Bent 3 has 9in. x 2 1/2 in. hole rusted thru web at haunch, see 2015 photo.
Span 2 Girder 2 Bent 3 has 1in. x 3/4in. hole rusted thru web at haunch, see 2015 photo.
Span 2 Girder 3 Bent 3 has 1in. x 1 1/2in. hole rusted thru web at haunch, see 2015 photo.
Span 2 Girder 5 Bent 3 has 7in. x 1 1/4in. hole rusted thru web at haunch, see 2015 photo.
Span 3 Girder 2 Bent 3 has 1/2in. diameter hole rusted thru web at haunch, see 2015 photo.
Span 3 Girder 3 Bent 3 has 5in. x 3/4in. hole rusted thru web at haunch, see 2015 photo.
Span 3 Girder 4 Bent 3 has 3in. x 3/4in. hole rusted thru web at haunch, see 2015 photo.
Span 3 Girder 5 Bent 3 has 6in. x 2in. hole rusted thru web at haunch, see 2015 photo.
Span 3 Girder 1 Bent 4 has 10in. x 1 1/2in. hole in web near concrete diaphragm, see 2015 photo.
Span 3 Girder 3 Bent 4 has 5in. x 1in. hole in web near concrete diaphragm, see 2015 photo.
Span 3 Girder 5 Bent 4 has 5in. x 3/4in. hole in web near concrete diaphragm, see 2015 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



Inspector:

Inspection Date:

Structure Number: 02873

Facility Carried: SH 77-02- LM 5.97

Bridge Inspection Report

Maintenance Needs



PHOTO 1 Description 02873 09-29-2015 span 1 girder 3 @ Bt 1

Stage: Monitor



PHOTO 2 Description 02873 09-29-2015 Span 1 girder 5 @ Bt 1

Stage: Monitor



PHOTO 3 Description 02873 09-30-2015 Span 1 Girder 1 & span 2 girder 1 over bent 2.

Stage: Monitor



PHOTO 4 Description 02873 09-30-2015 span 1 girder 2 over bent 2.

Stage: Monitor



PHOTO 5 Description 02873 09-30-2015 Span 1 girder 3 & Span 2 girder 3 over bent 2.

Inspector:

Inspection Date:

Structure Number: 02873

Facility Carried: SH 77-02- LM 5.97

Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 6 Description 02873 09-30-2015 Span 2 girder 4 over bent 2.

Stage: Monitor



PHOTO 7 Description 02873 09-30-2015 span 2 girder 2 & span 3 girder 2 over bent 2.

Stage: Monitor



PHOTO 8 Description 02873 09-30-2015 Span 2 girder 3 over bent 2 left bottom flange

Stage: Monitor



PHOTO 9 Description 02873 09-30-2015 Span 2 girder 1 over bent 3

Inspector:

Inspection Date:

Structure Number: 02873

Facility Carried: SH 77-02- LM 5.97

Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 10 Description 02873 09-30-2015 Span 2 girder 3 & span 3 girder 3 over bent 3.

Stage: Monitor



PHOTO 11 Description 02873 09-30-2015 Span 2 girder 5 & span 3 girder 5 over bent 3.

Stage: Monitor



PHOTO 12 Description 02873 09-30-2015 Span 3 girder 4 over bent 3.

Stage: Monitor



PHOTO 13 Description 02873 09-29-2015 Span 3 girder 1 @ Bent 4

Inspector:

Inspection Date:

Structure Number: 02873

Facility Carried: SH 77-02- LM 5.97

Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 14 Description 02873 09-29-2015 Span 3 girder 3 @ bent 4

Stage: Monitor



PHOTO 15 Description 02873 09-29-2015 Span 3 girder 5 @ Bent 4

Inspector:

Structure Number: 02873

Inspection Date:

Facility Carried: SH 77-02- LM 5.97

Bridge Inspection Report

Maintenance Needs

Date Reported: 10/20/2011 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Heavy erosion due to Roadway Runoff Bents 1, up to 3ft. deep x 2.5ft. back under Abutments, see 2015 photo.
Heavy erosion due to Roadway Runoff Bents 4, up to 2ft. deep x 2ft. back under Abutments, see 2015 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description 02873 09-29-2015 Bent 4 Embankment erosion.

Stage: Monitor



PHOTO 2 Description 02873 09-29-2015 Left end bent 1 abutment

Inspector:

Structure Number: 02873

Inspection Date:

Facility Carried: SH 77-02- LM 5.97

Bridge Inspection Report

Maintenance Needs

Date Reported: 10/20/2011 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Concrete Deck with Asphalt Overlay has 3ft. x 10ft. area of heavy cracking and impending spall in left lane of Span 1. Span 1 left Gutter line has a 2ft. x 1ft. spall without rebar exposed and a 2.5ft. x 28ft. x 2in. deep spall with exposed rebar with section loss, see 2015 photo.

Span 1 right Gutter line has a 1ft. x 12ft. x 1in. deep spall without rebar exposed and has a 2.5ft. x 19ft. x 2in. deep and a 2.5ft. x 8ft. x 2in. deep and a 2ft. diameter x 2in. deep spall with exposed rebar, see 2015 photo.

Span 3 left Gutter line has a 20ft. x 1ft. x 2in. deep spall with exposed rebar.

Span 3 right Gutter line has a 2ft. diameter and a 1.5 diameter spall 2in. deep with rebar exposed.

Deck has open sealable cracks thru Asphalt over Joints with several small spalls in asphalt.

Concrete Soffit Span 1 between Girders 4&5 has 2ft. wide x 20ft. long x 2in. deep shelled out bottom of deck with rebar exposed, See photo 2015

Span 1 left Overhang has an area 1.5ft. wide x 4ft. long x 2in. deep shelled out area with rebar exposed, 30% section loss to rebar.

Span 3 left Overhang has a 1ft. x 1.5ft. x 2in. deep shelled out area with rebar exposed.

Bottom of Deck has numerous cracks with efflorescence.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description 02873 09-29-2015 Left gutterline Span 1

Stage: Monitor



PHOTO 2 Description 02873 09-29-2015 Right gutterline Span 1

Inspector:

Inspection Date:

Structure Number: 02873

Facility Carried: SH 77-02- LM 5.97

Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 3 Description 02873 09-29-2015 Span 1 Bay 4

Stage: Monitor



PHOTO 4 Description 02873 09-29-2015 Span 1 left overhang

Inspector:

Structure Number: 02873

Inspection Date:

Facility Carried: SH 77-02- LM 5.97

Bridge Inspection Report

Maintenance Needs

Date Reported: 10/01/2015

Priority: C - Important

Work Code:

Deficiency Description:

Left end of Cap Bent 3

has a 2ft. x 6in. spall with no rebar exposed and a 4ft. x 1.5ft. x 4in. deep spall face of cap under girder 4 with rebar exposed and some cracking with impending spalls.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description 02873 09-30-2015 Left end bent 3 cap under span 3 girder 1.

Stage: Open



PHOTO 2 Description 02873 09-30-2015 bent 3 cap span 3 side under girder 4.

Inspector:

Structure Number: 02873

Inspection Date:

Facility Carried: SH 77-02- LM 5.97

Bridge Inspection Report

Maintenance Needs

Date Reported: 10/01/2015

Priority: D - Routine

Work Code:

Deficiency Description:

Ends of majority of Girders Spans 1, 2, & 3 over Caps Bents 2&3 are rusted with up to 1/4in. section loss to web and bottom flange 2ft. to 2.5ft. on ends.

Exterior girders have heavy rust especially under drain opening.

Majority of Span 1 Girders have up to 5/8in. section loss to girders,

Several Girders and Majority of Span 3 Girders have up to 1/8in. section loss to girders, (63LF)

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description 02873 09-30-2015 Span 1 Girder 5