NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: TEMP REPAIRS TO DECK IN SPAN 1

# Structure Safety Report

## Routine Element Inspection

COUNTY: GASTON STRUCTURE NUMBER: 350126 FREQUENCY: 24 MONTHS

FACILITY CARRIED: MODENA STREET MILE POST:

LOCATION: 1.3 MI. N. JCT. US321

FEATURE INTERSECTED: I85

LATITUDE: 35° 16' 40.48" LONGITUDE: 81° 9' 58.19"

SUPERSTRUCTURE: REINFORCED CONCRETE DECK ON I-BEAMS, APPROACH SLABS

SUBSTRUCTURE: ABUTS:RC SPILL THROUGH, INTBTS:RC POST&BEAM ON SPREAD FTGS.

SPANS: 1@64"0, 1@68"2, 1@67"10, 1@60"6

☐ FRACTURE CRITICAL ☐ TEMPORARY SHORING ☐ SCOUR CRITICAL ☐ SCOUR PLAN OF ACTION

PRESENT CONDITION: Good INSPECTION DATE: 10/07/2014

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: NONE

| Sign noticed issued for | | Number Required |
|---|---|---|
| NO | WEIGHT LIMIT | 0 |
| NO | DELINEATORS | 0 |
| NO | NARROW BRIDGE | 0 |
| NO | ONE LANE BRIDGE | 0 |
| NO | LOW CLEARANCE | 0 |

WEST APPROACH

| INSPECTED BY | SIGNATURE | ASSISTED BY |
|---|---|---|
| DEREK RICKUS | | ERIC PATTERSON |

# Span Element Report

Structure Number: 350126 Inspection Date: 10/07/2014

Span Number 1 Span Length 64 Feet Number of Beams/Girders: 6

| Element Number | Parent Number | Element Name | Total Quantity | Level 1 Quantity | Level 2 Quantity | Level 3 Quantity | Level 4 Quantity | Maint. Quantity | Maint. Code |
|---|---|---|---|---|---|---|---|---|---|
| 12 | | Reinforced Concrete Deck | 2,587 | 2,587 | 0 | 0 | 0 | 0 | 3326 |
| 107 | | Steel Open Girder/Beam | 384 | 384 | 0 | 0 | 0 | 0 | 3314 |
| 215 | | Reinforced Concrete Abutment | 48 | 48 | 0 | 0 | 0 | 0 | 3350 |
| 302 | | Compression Joint Seal | 46 | 46 | 0 | 0 | 0 | 0 | 3310 |
| 310 | | Elastomeric Bearing | 12 | 12 | 0 | 0 | 0 | 0 | 3334 |
| 321 | | Reinforced Concrete Approach Slabs | 651 | 651 | 0 | 0 | 0 | 0 | 3353 |
| 333 | | Other Bridge Railing | 128 | 128 | 0 | 0 | 0 | 0 | 3318 |

*"Near" Approach and Substructure quantities have been include for reporting purposes. The last span will also include End Bent 2 and Far Approach quantities where applicable*

Span Number 2 Span Length 68 Feet Number of Beams/Girders: 6

| Element Number | Parent Number | Element Name | Total Quantity | Level 1 Quantity | Level 2 Quantity | Level 3 Quantity | Level 4 Quantity | Maint. Quantity | Maint. Code |
|---|---|---|---|---|---|---|---|---|---|
| 12 | | Reinforced Concrete Deck | 2,749 | 2,749 | 0 | 0 | 0 | 0 | 3326 |
| 107 | | Steel Open Girder/Beam | 408 | 408 | 0 | 0 | 0 | 0 | 3314 |
| 215 | | Reinforced Concrete Abutment | 45 | 45 | 0 | 0 | 0 | 0 | 3350 |
| 310 | | Elastomeric Bearing | 12 | 12 | 0 | 0 | 0 | 0 | 3334 |
| 333 | | Other Bridge Railing | 136 | 136 | 0 | 0 | 0 | 0 | 3318 |

*"Near" Approach and Substructure quantities have been include for reporting purposes. The last span will also include End Bent 2 and Far Approach quantities where applicable*

Span Number 3 Span Length 68 Feet Number of Beams/Girders: 6

| Element Number | Parent Number | Element Name | Total Quantity | Level 1 Quantity | Level 2 Quantity | Level 3 Quantity | Level 4 Quantity | Maint. Quantity | Maint. Code |
|---|---|---|---|---|---|---|---|---|---|
| 12 | | Reinforced Concrete Deck | 2,749 | 2,749 | 0 | 0 | 0 | 0 | 3326 |
| 107 | | Steel Open Girder/Beam | 408 | 408 | 0 | 0 | 0 | 0 | 3314 |
| 215 | | Reinforced Concrete Abutment | 45 | 45 | 0 | 0 | 0 | 0 | 3350 |
| 302 | | Compression Joint Seal | 46 | 46 | 0 | 0 | 0 | 0 | 3310 |
| 310 | | Elastomeric Bearing | 12 | 12 | 0 | 0 | 0 | 0 | 3334 |
| 333 | | Other Bridge Railing | 136 | 136 | 0 | 0 | 0 | 0 | 3318 |

*"Near" Approach and Substructure quantities have been include for reporting purposes. The last span will also include End Bent 2 and Far Approach quantities where applicable*

Span Number 4 Span Length 60.5 Feet Number of Beams/Girders: 6

| Element Number | Parent Number | Element Name | Total Quantity | Level 1 Quantity | Level 2 Quantity | Level 3 Quantity | Level 4 Quantity | Maint. Quantity | Maint. Code |
|---|---|---|---|---|---|---|---|---|---|
| 12 | | Reinforced Concrete Deck | 2,446 | 2,446 | 0 | 0 | 0 | 0 | 3326 |
| 107 | | Steel Open Girder/Beam | 360 | 360 | 0 | 0 | 0 | 0 | 3314 |
| 215 | | Reinforced Concrete Abutment | 93 | 93 | 0 | 0 | 0 | 0 | 3350 |
| 302 | | Compression Joint Seal | 92 | 92 | 0 | 0 | 0 | 0 | 3310 |
| 310 | | Elastomeric Bearing | 12 | 12 | 0 | 0 | 0 | 0 | 3334 |
| 321 | | Reinforced Concrete Approach Slabs | 651 | 651 | 0 | 0 | 0 | 0 | 3353 |
| 333 | | Other Bridge Railing | 122 | 122 | 0 | 0 | 0 | 0 | 3318 |

*"Near" Approach and Substructure quantities have been include for reporting purposes. The last span will also include End Bent 2 and Far Approach quantities where applicable*

# Superstructure Detailed Element Quantites

Structure Number: 350126

Inspection Date: 10/07/2014

Structure Number: 350126 Inspection Date: 10/07/2014

Span Number 1

| Element Location | Location Number | Element Number | Element Name | Total Quantity | Level 1 Quantity | Level 2 Quantity | Level 3 Quantity | Level 4 Quantity | Maint. Quantity | Maint. Code | Priority Maintenance |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ☑ Deck | 1 | 12 | Reinforced Concrete Deck | 2587 | 2577 | 0 | 10 | 0 | 10 | 3326 | ☐ Requested |
| ☑ Bridge Rail | 1 | 333 | Other Bridge Railing | 64 | 64 | 0 | 0 | 0 | 0 | 3318 | ☐ Requested |
| ☑ Bridge Rail | 2 | 333 | Other Bridge Railing | 64 | 62 | 0 | 2 | 0 | 2 | 3318 | ☐ Requested |
| ☑ Wearing Surfaces | | 510 | Wearing Surface | 1792 | 992 | 800 | 0 | 0 | 800 | 2816 | ☐ Requested |
| ☑ Beam | 1 | 107 | Steel Open Girder/Beam | 64 | 58 | 0 | 6 | 0 | 6 | 3314 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 550 | 350 | 0 | 200 | 0 | 200 | 5603 | |
| ☑ Beam | 2 | 107 | Steel Open Girder/Beam | 64 | 64 | 0 | 0 | 0 | 0 | 3314 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 550 | 350 | 0 | 200 | 0 | 200 | 5603 | |
| ☑ Beam | 3 | 107 | Steel Open Girder/Beam | 64 | 64 | 0 | 0 | 0 | 0 | 3314 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 550 | 350 | 0 | 200 | 0 | 200 | 5603 | |
| ☑ Beam | 4 | 107 | Steel Open Girder/Beam | 64 | 64 | 0 | 0 | 0 | 0 | 3314 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 550 | 350 | 0 | 200 | 0 | 200 | 5603 | |
| ☑ Beam | 5 | 107 | Steel Open Girder/Beam | 64 | 64 | 0 | 0 | 0 | 0 | 3314 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 550 | 350 | 0 | 200 | 0 | 200 | 5603 | |
| ☑ Beam | 6 | 107 | Steel Open Girder/Beam | 64 | 58 | 0 | 6 | 0 | 6 | 3314 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 550 | 350 | 0 | 200 | 0 | 200 | 5603 | |
| ☑ Bearing Device | 1 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 1 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 2 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 2 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 3 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 3 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 4 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 4 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |

Structure Number: 350126 Inspection Date: 10/07/2014

Span Number 1

| Element Location | Location Number | Element Number | Element Name | Total Quantity | Level 1 Quantity | Level 2 Quantity | Level 3 Quantity | Level 4 Quantity | Maint. Quantity | Maint. Code | Priority Maintenance |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 5 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 5 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 6 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 6 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Expansion Joints | 1 | 302 | Compression Joint Seal | 46 | 0 | 46 | 0 | 0 | 46 | 3310 | ☐ Requested |

Structure Number: 350126 Inspection Date: 10/07/2014

Span Number 2

| Element Location | Location Number | Element Number | Element Name | Total Quantity | Level 1 Quantity | Level 2 Quantity | Level 3 Quantity | Level 4 Quantity | Maint. Quantity | Maint. Code | Priority Maintenance |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ☑ Deck | 1 | 12 | Reinforced Concrete Deck | 2749 | 2739 | 0 | 10 | 0 | 10 | 3326 | ☐ Requested |
| ☑ Bridge Rail | 1 | 333 | Other Bridge Railing | 68 | 68 | 0 | 0 | 0 | 0 | 3318 | ☐ Requested |
| ☑ Bridge Rail | 2 | 333 | Other Bridge Railing | 68 | 68 | 0 | 0 | 0 | 0 | 3318 | ☐ Requested |
| ☑ Wearing Surfaces | | 510 | Wearing Surface | 1904 | 1404 | 0 | 500 | 0 | 500 | 2816 | ☐ Requested |
| ☑ Beam | 1 | 107 | Steel Open Girder/Beam | 68 | 62 | 0 | 6 | 0 | 6 | 3314 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 600 | 400 | 0 | 200 | 0 | 200 | 5603 | |
| ☑ Beam | 2 | 107 | Steel Open Girder/Beam | 68 | 68 | 0 | 0 | 0 | 0 | 3314 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 600 | 400 | 0 | 200 | 0 | 200 | 5603 | |
| ☑ Beam | 3 | 107 | Steel Open Girder/Beam | 68 | 68 | 0 | 0 | 0 | 0 | 3314 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 600 | 400 | 0 | 200 | 0 | 200 | 5603 | |
| ☑ Beam | 4 | 107 | Steel Open Girder/Beam | 68 | 68 | 0 | 0 | 0 | 0 | 3314 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 600 | 400 | 0 | 200 | 0 | 200 | 5603 | |
| ☑ Beam | 5 | 107 | Steel Open Girder/Beam | 68 | 68 | 0 | 0 | 0 | 0 | 3314 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 600 | 400 | 0 | 200 | 0 | 200 | 5603 | |
| ☑ Beam | 6 | 107 | Steel Open Girder/Beam | 68 | 62 | 0 | 6 | 0 | 6 | 3314 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 600 | 400 | 0 | 200 | 0 | 200 | 5603 | |
| ☑ Bearing Device | 1 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 1 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 2 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 2 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 3 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 3 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 4 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 4 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |

Structure Number: 350126 Inspection Date: 10/07/2014

Span Number 2

| Element Location | Location Number | Element Number | Element Name | Total Quantity | Level 1 Quantity | Level 2 Quantity | Level 3 Quantity | Level 4 Quantity | Maint. Quantity | Maint. Code | Priority Maintenance |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 5 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 5 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 6 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 6 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Expansion Joints | 1 | 302 | Compression Joint Seal | 46 | 0 | 46 | 0 | 0 | 46 | 3310 | ☐ Requested |

Structure Number: 350126 Inspection Date: 10/07/2014

Span Number 3

| Element Location | Location Number | Element Number | Element Name | Total Quantity | Level 1 Quantity | Level 2 Quantity | Level 3 Quantity | Level 4 Quantity | Maint. Quantity | Maint. Code | Priority Maintenance |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ☑ Deck | 1 | 12 | Reinforced Concrete Deck | 2749 | 2739 | 0 | 10 | 0 | 10 | 3326 | ☐ Requested |
| ☑ Bridge Rail | 1 | 333 | Other Bridge Railing | 68 | 68 | 0 | 0 | 0 | 0 | 3318 | ☐ Requested |
| ☑ Bridge Rail | 2 | 333 | Other Bridge Railing | 68 | 68 | 0 | 0 | 0 | 0 | 3318 | ☐ Requested |
| ☑ Wearing Surfaces | 1 | 510 | Wearing Surface | 1904 | 1104 | 800 | 0 | 0 | 800 | 2816 | ☐ Requested |
| ☑ Beam | 1 | 107 | Steel Open Girder/Beam | 68 | 62 | 0 | 6 | 0 | 6 | 3314 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 600 | 400 | 0 | 200 | 0 | 200 | 5603 | |
| ☑ Beam | 2 | 107 | Steel Open Girder/Beam | 68 | 68 | 0 | 0 | 0 | 0 | 3314 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 600 | 400 | 0 | 200 | 0 | 200 | 5603 | |
| ☑ Beam | 3 | 107 | Steel Open Girder/Beam | 68 | 68 | 0 | 0 | 0 | 0 | 3314 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 600 | 400 | 0 | 200 | 0 | 200 | 5603 | |
| ☑ Beam | 4 | 107 | Steel Open Girder/Beam | 68 | 68 | 0 | 0 | 0 | 0 | 3314 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 600 | 400 | 0 | 200 | 0 | 200 | 5603 | |
| ☑ Beam | 5 | 107 | Steel Open Girder/Beam | 68 | 68 | 0 | 0 | 0 | 0 | 3314 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 600 | 400 | 0 | 200 | 0 | 200 | 5603 | |
| ☑ Beam | 6 | 107 | Steel Open Girder/Beam | 68 | 62 | 0 | 6 | 0 | 6 | 3314 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 600 | 400 | 0 | 200 | 0 | 200 | 5603 | |
| ☑ Bearing Device | 1 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 1 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 2 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 2 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 3 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 3 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 4 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 4 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |

Structure Number: 350126 Inspection Date: 10/07/2014

Span Number 3

| Element Location | Location Number | Element Number | Element Name | Total Quantity | Level 1 Quantity | Level 2 Quantity | Level 3 Quantity | Level 4 Quantity | Maint. Quantity | Maint. Code | Priority Maintenance |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 5 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 5 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 6 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 6 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Expansion Joints | 1 | 302 | Compression Joint Seal | 46 | 0 | 46 | 0 | 0 | 46 | 3310 | ☐ Requested |

Structure Number: 350126 Inspection Date: 10/07/2014

Span Number 4

| Element Location | Location Number | Element Number | Element Name | Total Quantity | Level 1 Quantity | Level 2 Quantity | Level 3 Quantity | Level 4 Quantity | Maint. Quantity | Maint. Code | Priority Maintenance |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ☑ Deck | 1 | 12 | Reinforced Concrete Deck | 2446 | 2436 | 0 | 10 | 0 | 10 | 3326 | ☐ Requested |
| ☑ Bridge Rail | 1 | 333 | Other Bridge Railing | 61 | 61 | 0 | 0 | 0 | 0 | 3318 | ☐ Requested |
| ☑ Bridge Rail | 2 | 333 | Other Bridge Railing | 61 | 53 | 8 | 0 | 0 | 8 | 3318 | ☐ Requested |
| ☑ Wearing Surfaces | 1 | 510 | Wearing Surface | 1694 | 994 | 700 | 0 | 0 | 700 | 2816 | ☐ Requested |
| ☑ Beam | 1 | 107 | Steel Open Girder/Beam | 60 | 54 | 0 | 6 | 0 | 6 | 3314 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 550 | 350 | 0 | 200 | 0 | 200 | 5603 | |
| ☑ Beam | 2 | 107 | Steel Open Girder/Beam | 60 | 60 | 0 | 0 | 0 | 0 | 3314 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 550 | 350 | 0 | 200 | 0 | 200 | 5603 | |
| ☑ Beam | 3 | 107 | Steel Open Girder/Beam | 60 | 60 | 0 | 0 | 0 | 0 | 3314 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 550 | 350 | 0 | 200 | 0 | 200 | 5603 | |
| ☑ Beam | 4 | 107 | Steel Open Girder/Beam | 60 | 60 | 0 | 0 | 0 | 0 | 3314 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 0 | -200 | 0 | 200 | 0 | 200 | 5603 | |
| ☑ Beam | 5 | 107 | Steel Open Girder/Beam | 60 | 60 | 0 | 0 | 0 | 0 | 3314 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 550 | 350 | 0 | 200 | 0 | 200 | 5603 | |
| ☑ Beam | 6 | 107 | Steel Open Girder/Beam | 60 | 54 | 0 | 6 | 0 | 6 | 3314 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 550 | 350 | 0 | 200 | 0 | 200 | 5603 | |
| ☑ Bearing Device | 1 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 1 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 2 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 2 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 3 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 3 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 4 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 4 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |

Structure Number: 350126 Inspection Date: 10/07/2014

Span Number 4

| Element Location | Location Number | Element Number | Element Name | Total Quantity | Level 1 Quantity | Level 2 Quantity | Level 3 Quantity | Level 4 Quantity | Maint. Quantity | Maint. Code | Priority Maintenance |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 5 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 5 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 6 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Bearing Device | 6 | 310 | Elastomeric Bearing | 1 | 1 | 0 | 0 | 0 | 0 | 3334 | ☐ Requested |
| Protective System | | 515 | Steel Protective Coating | 1 | 0 | 0 | 1 | 0 | 1 | 5603 | |
| ☑ Expansion Joints | 1 | 302 | Compression Joint Seal | 46 | 0 | 46 | 0 | 0 | 46 | 3310 | ☐ Requested |
| ☑ Expansion Joints | 1 | 302 | Compression Joint Seal | 46 | 0 | 46 | 0 | 0 | 46 | 3310 | ☐ Requested |

# Superstructure Element Defect Descriptions

Structure Number: 350126 Inspection Date: 10/07/2014

Span Number 1

| Span 1 | Deck | 1 | Component Name: | Reinforced Concrete Deck |
|---|---|---|---|---|

Element: 12 Name Reinforced Concrete Deck Qty: 2587 Lvl 2: 0 Lvl 3 10 Lvl 4 0 Maint. Qty 10

Defect Description:

10 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. CHIPPING ALONG JOINT EDGES.

| Span 1 | Bridge Rail | 2 | Component Name: | Concrete and Metal Railing |
|---|---|---|---|---|

Element: 333 Name Other Bridge Railing Qty: 64 Lvl 2: 0 Lvl 3 2 Lvl 4 0 Maint. Qty 2

Defect Description:

2 Feet of Connection: Missing bolts, rivets, or fasteners; broken welds; or pack rust with distortion but does not warrant a structural review. GUARDRAIL CONNECTION TO CONCRETE BRIDGE RAIL.

| Span 1 | Wearing Surfaces | | Component Name: | Concrete Wearing Surface |
|---|---|---|---|---|

Element: 510 Name Wearing Surface Qty: 1792 Lvl 2: 800 Lvl 3 0 Lvl 4 0 Maint. Qty 800

Defect Description:

400 Square Feet of Delamination/Spall/Patched Area/Pothole (Wearing Surfaces): Delaminated. Spall less than 1 in. deep or less than 6 in. diameter. Patched area that is sound. Partial depth pothole.
400 Square Feet of Crack (Wearing Surface): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.

| Span 1 | Beam | 1 | Component Name: | Plate Girder |
|---|---|---|---|---|

Element: 107 Name Steel Open Girder/Beam Qty: 64 Lvl 2: 0 Lvl 3 6 Lvl 4 0 Maint. Qty 6

Defect Description:

6 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
200 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

| Span 1 | Beam | 2 | Component Name: | Plate Girder |
|---|---|---|---|---|

Element: 107 Name Steel Open Girder/Beam Qty: 64 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0

Defect Description:

200 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

| Span 1 | Beam | 3 | Component Name: | Plate Girder |
|---|---|---|---|---|

Element: 107 Name Steel Open Girder/Beam Qty: 64 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0

Defect Description:

200 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

| Span 1 | Beam | 4 | Component Name: | Plate Girder |
|---|---|---|---|---|

Element: 107 Name Steel Open Girder/Beam Qty: 64 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0

Defect Description:

200 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

| Span 1 | Beam | 5 | Component Name: | Plate Girder |
|---|---|---|---|---|

Element: 107 Name Steel Open Girder/Beam Qty: 64 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0

Defect Description:

200 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

| Span 1 | Beam | 6 | Component Name: | Plate Girder |
|---|---|---|---|---|

Element: 107 Name Steel Open Girder/Beam Qty: 64 Lvl 2: 0 Lvl 3 6 Lvl 4 0 Maint. Qty 6

Defect Description:

6 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
200 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 1 Bearing Device 1 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0

Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 1 Bearing Device 1 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0

Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 1 Bearing Device 2 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0

Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 1 Bearing Device 2 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0

Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 1 Bearing Device 3 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0

Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 1 Bearing Device 3 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0

Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 1 Bearing Device 4 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0

Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 1 Bearing Device 4 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0

Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 1 Bearing Device 5 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0

Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 1 Bearing Device 5 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0

Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 1 Bearing Device 6 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0

Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 1 Bearing Device 6 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 1 Expansion Joints 1 Component Name: Compression Seal

Element: 302 Name Compression Joint Seal Qty: 46 Lvl 2: 46 Lvl 3 0 Lvl 4 0 Maint. Qty 46
Defect Description:

23 Feet of Seal Adhesion: Adhered for more than 50% of the joint height.
23 Feet of Seal Cracking: Surface crack.

Span Number 2

Span 2 Deck 1 Component Name: Reinforced Concrete Deck

Element: 12 Name Reinforced Concrete Deck Qty: 2749 Lvl 2: 0 Lvl 3 10 Lvl 4 0 Maint. Qty 10
Defect Description:

10 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. CHIPPING ALONG JOINT EDGES.

Span 2 Wearing Surfaces Component Name: Concrete Wearing Surface

Element: 510 Name Wearing Surface Qty: 1904 Lvl 2: 0 Lvl 3 500 Lvl 4 0 Maint. Qty 500
Defect Description:

500 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft.

Span 2 Beam 1 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 68 Lvl 2: 0 Lvl 3 6 Lvl 4 0 Maint. Qty 6
Defect Description:

6 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
200 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 2 Beam 2 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 68 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

200 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 2 Beam 3 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 68 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

200 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 2 Beam 4 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 68 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

200 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 2 Beam 5 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 68 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

200 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 2 Beam 6 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 68 Lvl 2: 0 Lvl 3 6 Lvl 4 0 Maint. Qty 6
Defect Description:

6 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
200 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 2 Bearing Device 1 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 2 Bearing Device 1 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 2 Bearing Device 2 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 2 Bearing Device 2 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 2 Bearing Device 3 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 2 Bearing Device 3 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 2 Bearing Device 4 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 2 Bearing Device 4 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 2 Bearing Device 5 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 2 Bearing Device 5 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 2 Bearing Device 6 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 2 Bearing Device 6 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 2 Expansion Joints 1 Component Name: Compression Seal

Element: 302 Name Compression Joint Seal Qty: 46 Lvl 2: 46 Lvl 3 0 Lvl 4 0 Maint. Qty 46
Defect Description:

23 Feet of Seal Adhesion: Adhered for more than 50% of the joint height.
23 Feet of Seal Cracking: Surface crack.

Span Number 3

Span 3 Deck 1 Component Name: Reinforced Concrete Deck

Element: 12 Name Reinforced Concrete Deck Qty: 2749 Lvl 2: 0 Lvl 3 10 Lvl 4 0 Maint. Qty 10
Defect Description:

10 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. CHIPPING ALONG JOINT EDGES.

Span 3 Wearing Surfaces 1 Component Name: Concrete Wearing Surface

Element: 510 Name Wearing Surface Qty: 1904 Lvl 2: 800 Lvl 3 0 Lvl 4 0 Maint. Qty 800
Defect Description:

800 Square Feet of Crack (Wearing Surface): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.

Span 3 Beam 1 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 68 Lvl 2: 0 Lvl 3 6 Lvl 4 0 Maint. Qty 6
Defect Description:

6 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
200 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 3 Beam 2 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 68 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

200 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 3 Beam 3 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 68 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

200 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 3 Beam 4 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 68 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

200 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 3 Beam 5 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 68 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

200 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 3 Beam 6 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 68 Lvl 2: 0 Lvl 3 6 Lvl 4 0 Maint. Qty 6
Defect Description:

6 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
200 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 3 Bearing Device 1 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 3 Bearing Device 1 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 3 Bearing Device 2 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 3 Bearing Device 2 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 3 Bearing Device 3 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 3 Bearing Device 3 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 3 Bearing Device 4 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 3 Bearing Device 4 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 3 Bearing Device 5 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 3 Bearing Device 5 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 3 Bearing Device 6 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 3 Bearing Device 6 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 3 Expansion Joints 1 Component Name: Compression Seal

Element: 302 Name Compression Joint Seal Qty: 46 Lvl 2: 46 Lvl 3 0 Lvl 4 0 Maint. Qty 46
Defect Description:

23 Feet of Seal Adhesion: Adhered for more than 50% of the joint height.
23 Feet of Seal Cracking: Surface crack.

Span Number 4

Span 4 Deck 1 Component Name: Reinforced Concrete Deck

Element: 12 Name Reinforced Concrete Deck Qty: 2446 Lvl 2: 0 Lvl 3 10 Lvl 4 0 Maint. Qty 10
Defect Description:

10 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. CHIPPING ALONG JOINT EDGES.

Span 4 Bridge Rail 2 Component Name: Concrete and Metal Railing

Element: 333 Name Other Bridge Railing Qty: 61 Lvl 2: 8 Lvl 3 0 Lvl 4 0 Maint. Qty 8
Defect Description:

8 Feet of Distortion: Distortion not requiring mitigation of mitigated distortion.

Span 4 Wearing Surfaces 1 Component Name: Concrete Wearing Surface

Element: 510 Name Wearing Surface Qty: 1694 Lvl 2: 700 Lvl 3 0 Lvl 4 0 Maint. Qty 700
Defect Description:

700 Square Feet of Crack (Wearing Surface): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.

Span 4 Beam 1 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 60 Lvl 2: 0 Lvl 3 6 Lvl 4 0 Maint. Qty 6
Defect Description:

6 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
200 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 4 Beam 2 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 60 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

200 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 4 Beam 3 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 60 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

200 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 4 Beam 4 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 60 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

200 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 4 Beam 5 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 60 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

200 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 4 Beam 6 Component Name: Plate Girder

Element: 107 Name Steel Open Girder/Beam Qty: 60 Lvl 2: 0 Lvl 3 6 Lvl 4 0 Maint. Qty 6
Defect Description:

6 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
200 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 4 Bearing Device 1 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 4 Bearing Device 1 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 4 Bearing Device 2 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 4 Bearing Device 2 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 4 Bearing Device 3 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 4 Bearing Device 3 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 4 Bearing Device 4 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 4 Bearing Device 4 Component Name: Elastomeric Bearing with Metal Plates

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

| Span 4 | Bearing Device 5 | Component Name: Elastomeric Bearing with Metal Plates |
|---|---|---|

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

| Span 4 | Bearing Device 5 | Component Name: Elastomeric Bearing with Metal Plates |
|---|---|---|

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

| Span 4 | Bearing Device 6 | Component Name: Elastomeric Bearing with Metal Plates |
|---|---|---|

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

| Span 4 | Bearing Device 6 | Component Name: Elastomeric Bearing with Metal Plates |
|---|---|---|

Element: 310 Name Elastomeric Bearing Qty: 1 Lvl 2: 0 Lvl 3 0 Lvl 4 0 Maint. Qty 0
Defect Description:

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

| Span 4 | Expansion Joints 1 | Component Name: Compression Seal |
|---|---|---|

Element: 302 Name Compression Joint Seal Qty: 46 Lvl 2: 46 Lvl 3 0 Lvl 4 0 Maint. Qty 46
Defect Description:

23 Feet of Seal Adhesion: Adhered for more than 50% of the joint height.
23 Feet of Seal Cracking: Surface crack.

| Span 4 | Expansion Joints 1 | Component Name: Compression Seal |
|---|---|---|

Element: 302 Name Compression Joint Seal Qty: 46 Lvl 2: 46 Lvl 3 0 Lvl 4 0 Maint. Qty 46
Defect Description:

23 Feet of Seal Adhesion: Adhered for more than 50% of the joint height.
23 Feet of Seal Cracking: Surface crack.

# Substructure Detailed Element Quantites

Structure Number: 350126 Inspection Date: 10/07/2014

End Bent 1

| Element Location | Location Number | Element Number | Element Name | Total Quantity | Level 1 Quantity | Level 2 Quantity | Level 3 Quantity | Level 4 Quantity | Maint. Quantity | Maint. Code | Priority Maintenance |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ☑ Abutments | 1 | 215 | Reinforced Concrete Abutment | 48 | 48 | 0 | 0 | 0 | 0 | 3350 | ☐ Requested |
| ☑ Caps | 1 | 234 | Reinforced Concrete Pier Cap | 48 | 48 | 0 | 0 | 0 | 0 | 3348 | ☐ Requested |

Bent 1

| Element Location | Location Number | Element Number | Element Name | Total Quantity | Level 1 Quantity | Level 2 Quantity | Level 3 Quantity | Level 4 Quantity | Maint. Quantity | Maint. Code | Priority Maintenance |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ☑ Caps | 1 | 234 | Reinforced Concrete Pier Cap | 45 | 45 | 0 | 0 | 0 | 0 | 3348 | ☐ Requested |
| ☑ Piles and Columns | 1 | 205 | Reinforced Concrete Column | 1 | 1 | 0 | 0 | 0 | 0 | 3348 | ☐ Requested |
| ☑ Piles and Columns | 2 | 205 | Reinforced Concrete Column | 1 | 1 | 0 | 0 | 0 | 0 | 3348 | ☐ Requested |
| ☑ Piles and Columns | 3 | 205 | Reinforced Concrete Column | 1 | 1 | 0 | 0 | 0 | 0 | 3348 | ☐ Requested |

Bent 2

| Element Location | Location Number | Element Number | Element Name | Total Quantity | Level 1 Quantity | Level 2 Quantity | Level 3 Quantity | Level 4 Quantity | Maint. Quantity | Maint. Code | Priority Maintenance |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ☑ Caps | 1 | 234 | Reinforced Concrete Pier Cap | 45 | 45 | 0 | 0 | 0 | 0 | 3348 | ☐ Requested |
| ☑ Piles and Columns | 1 | 205 | Reinforced Concrete Column | 1 | 1 | 0 | 0 | 0 | 0 | 3348 | ☐ Requested |
| ☑ Piles and Columns | 2 | 205 | Reinforced Concrete Column | 1 | 1 | 0 | 0 | 0 | 0 | 3348 | ☐ Requested |
| ☑ Piles and Columns | 3 | 205 | Reinforced Concrete Column | 1 | 1 | 0 | 0 | 0 | 0 | 3348 | ☐ Requested |

Bent 3

| Element Location | Location Number | Element Number | Element Name | Total Quantity | Level 1 Quantity | Level 2 Quantity | Level 3 Quantity | Level 4 Quantity | Maint. Quantity | Maint. Code | Priority Maintenance |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ☑ Caps | 1 | 234 | Reinforced Concrete Pier Cap | 45 | 45 | 0 | 0 | 0 | 0 | 3348 | ☐ Requested |
| ☑ Piles and Columns | 1 | 205 | Reinforced Concrete Column | 1 | 1 | 0 | 0 | 0 | 0 | 3348 | ☐ Requested |
| ☑ Piles and Columns | 2 | 205 | Reinforced Concrete Column | 1 | 1 | 0 | 0 | 0 | 0 | 3348 | ☐ Requested |
| ☑ Piles and Columns | 3 | 205 | Reinforced Concrete Column | 1 | 1 | 0 | 0 | 0 | 0 | 3348 | ☐ Requested |

Structure Number: 350126

Inspection Date: 10/07/2014

End Bent 2

| Element Location | Location Number | Element Number | Element Name | Total Quantity | Level 1 Quantity | Level 2 Quantity | Level 3 Quantity | Level 4 Quantity | Maint. Quantity | Maint. Code | Priority Maintenance |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ☑ Abutments | 1 | 215 | Reinforced Concrete Abutment | 48 | 48 | 0 | 0 | 0 | 0 | 3350 | ☐ Requested |
| ☑ Caps | 1 | 234 | Reinforced Concrete Pier Cap | 48 | 48 | 0 | 0 | 0 | 0 | 3348 | ☐ Requested |

# Substructure Element Defect Descriptions

Structure Number: 350126 Inspection Date: 10/07/2014

# Approach Detailed Element Quantites

Structure Number: 350126

Inspection Date: 10/07/2014

| Element Location | Location Number | Element Number | Element Name | Total Quantity | Level 1 Quantity | Level 2 Quantity | Level 3 Quantity | Level 4 Quantity | Maint. Quantity | Maint. Code | Priority Maintenance |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ☑ Approach | 1 | 321 | Reinforced Concrete Approach Slabs | 651 | 651 | 0.000 | 0.000 | 0.000 | 0 | 3353 | ☐ Requested |
| ☑ Approach | 2 | 321 | Reinforced Concrete Approach Slabs | 651 | 651 | 0.000 | 0.000 | 0.000 | 0 | 3353 | ☐ Requested |

# Approach Element Defect Descriptions

Structure Number: 350126 Inspection Date: 10/07/2014

# National Bridge and NC Inspection Items

Structure Number: 350126 Inspection Date: 10/07/2014

## National Bridge Inventory Items

| Item | Grade Scale | Grade |
|---|---|---|
| Item 58: Deck | 0 - 9 , N | 7 |
| Item 59: Superstructure | 0 - 9 , N | 6 |
| Item 60: Substructure | 0 - 9 , N | 7 |
| Item 61: Channel and Channel Protection | 0 - 9 , N | |
| Item 62: Culvert | 0 - 9 , N | |
| Item 71: Waterway Adequacy | 0 - 9 , N | |
| Item 72: Approach Roadway Alignment | 0 - 9 , N | 6 |

*Note: If NBI Inspection Item is not present, code NBI item with "N"*

## NC SMU Inspection Items

| Item | Grade Scale | Grade | Maint. Qty. | Maint. Code |
|---|---|---|---|---|
| Deck Debris | G, F, P, or C | G | 0 | 3376 |
| Drainage System | G, F, P, or C | G | 0 | 3332 |
| Utilities | G, F, P, or C | G | | |
| Slope Protection | G, F, P, or C | G | 0 | 3352 |
| Wingwall | G, F, P, or C | | | |
| Scour | G, F, P, or C | | | |
| Field Scour Evaluation | | | | |
| Drift | G, F, P, or C | | 0 | 3366 |
| Fender System | G, F, P, or C | | 0 | 3364 |
| Response to Live Load | G, F, P, or C | G | | |
| Estimated Remaining Life | 0 - 100 Years | 35 | | |

*Note: If NC SMU Insepction Item is not present, leave NC SMU item blank*

## Inspection Information

| Item | Grade Scale | Grade |
|---|---|---|
| Regulatory Sign Noticed Issued | YES/NO | N |
| Priority Maintenance Request Submitted | YES/NO | N |
| Inspection Time | Hours | 11 |
| Traffic Control Time | Hours | 0 |
| Snooper Time | Hours | 0 |
| Ladder Used | YES/NO | N |
| Bucket Truck Used | YES/NO | N |
| Boat Used | YES/NO | N |
| Other Equipment Used | YES/NO | N |

# National Bridge and NC SMU Inspection Item Details

Structure Number: 350126 Inspection Date: 10/07/2014

| Item | Grade | Maint Code | Qty. |
| --- | --- | --- | --- |
| Details | | | |

Expansion Joint 1 : 23 Feet of Seal Adhesion: Adhered for more than 50% of the joint height.


Span 4 Right Bridge Rail: 8 Feet of Distortion: Distortion not requiring mitigation of mitigated distortion.


Span 1 Right Bridge Rail: 2 Feet of Connection: Missing bolts, rivets, or fasteners; broken welds; or pack rust with distortion but does not warrant a structural review. GUARDRAIL CONNECTION TO CONCRETE BRIDGE RAIL.

Span 1 Wearing Surface: 400 Square Feet of Delamination/Spall/Patched Area/Pothole (Wearing Surfaces): Delaminated. Spall less than 1 in. deep or less than 6 in. diameter. Patched area that is sound. Partial depth pothole.

Span 2 Wearing Surface: 500 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft.

Span 1 Beam 1: 6 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.

SCATTERED COARSE AGGREGATE EXPOSURE THROUGHOUT TOP OF DECK

Span 1 Deck: 10 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft.
CHIPPING ALONG JOINT EDGES.

BENT 1


ABUT 2

4" GAS LINE HANGING FROM STEEL SUPPORTS, BAY 5

TYP GR END

EAST APPROACH

TYP GR CONNECTION


DATA PLATE, EAST APPROACH

GR LOOKING EAST

GR LOOKING WEST

WEST APPROACH

12" DIP HANGING FROM STEEL SUPPORTS, BAY 1

BENT 3

BENT 2

LOOKING SOUTH

LOOKING NORTH

## IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE 350126
(8) STRUCTURE NUMBER(FEDERAL) 000000000710126
(5) INVENTORY ROUTE (ON/UNDER) - ON 50000000
(2) STATE HIGHWAY DEPARTMENT DISTRICT 1
(3) COUNTY CODE 71 (4) PLACE CODE 25580
(6) FEATURE INTERSECTED - I85
(7) FACILITY CARRIED MODENA STREET
(9) LOCATION 1.3 MI. N. JCT. US321
(11)MILEPOINT 0
(16)LAT 35° 16' 40.48" (17)LONG 81° 9' 58.19"
(98)BORDER BRIDGE STATE CODE PCT SHARE
(99)BORDER BRIDGE STRUCTURE NO

## STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN: Steel
TYPE - Stringer Mutlibeam or Girder CODE 302
(44) STRUCTURE TYPE APPR :
TYPE - CODE 000
(45) NUMBER OF SPANS IN MAIN UNIT 4
(46) NUMBER OF APPROACH SPANS
(107)DECK STRUCTURE TYPE - 1 CODE
(108)WEARING SURFACE / PROTECTIVE SYSTEM :
(A) TYPE OF WEARING SURFACE - CODE
(B) TYPE OF MEMBRANE - CODE
(C) TYPE OF DECK PROTECTION - CODE

## AGE AND SERVICE

(27) YEAR BUILT 1963
(106)YEAR RECONSTRUCTED
(42) TYPE OF SERVICE : ON - Highway - Pedestrian
UNDER - Highway CODE 51
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE 6
(29) AVERAGE DAILY TRAFFIC 4300
(30) YEAR OF ADT 2012 (109) TRUCK ADT PCT 7%
(19) BYPASS OR DETOUR LENGTH 1 MI

## GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 67 FT
(49) STRUCTURE LENGTH 261 FT
(50)CURB OR SIDEWALK: LEFT 5.1 FT RIGHT 5.1 FT
(51) BRIDGE ROADWAY WIDTH CURB TO CURB 28 FT
(52) DECK WIDTH OUT TO OUT 40.458 FT
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 32 FT
(33) BRIDGE MEDIAN - No Median CODE 0
(34) SKEW 32° (35) STRUCTURE FLARED 0
(10) INVENTORY ROUTE MIN VERT CLEAR 999.9 FT
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR 28 FT
(53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9 FT
(54) MIN VERT UNDERCLEAR REF Highway 16.167 FT
(55) MIN LAT UNDERCLEAR RT REF Highway 8.083 FT
(56) MIN LAT UNDERCLEAR LT REF - 6.667 FT

## NAVIGATION DATA

(38) NAVIGATION CONTROL - Not Applicable CODE N
(111)PIER PROTECTION - CODE
(39) NAVIGATION VERTICAL CLEARANCE 0
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR FT
(40) NAVIGATION HORIZONTAL CLEARANCE 0 FT

SUFFICIENCY RATING = 78.57
STATUS = Functionally Obsolete

## CLASSIFICATION CODE

(112)NBIS BRIDGE SYSTEM - YES
(104)HIGHWAY SYSTEM Is not on NHS 0
(26) FUNCTIONAL CLASS - Collector 17
(100)STRAHNET HIGHWAY - Not a STRAHNET Route 0
(101)PARALLEL STRUCTURE - No Parallel Structure N
(102)DIRECTION OF TRAFFIC - 2-way Traffic 2
(103)TEMPORARY STRUCTURE -
(110)DESIGNATED NATIONAL NETWORK - Not on the National Network 0
(20) TOLL On Free Road 3
(31) MAINTAIN - State Highway Agency 01
(22) OWNER - State Highway Agency 01
(37) HISTORICAL SIGNIFICANCE - Not Eligible 5

## CONDITION CODE

(58) DECK 7
(59) SUPERSTRUCTURE 6
(60) SUBSTRUCTURE 7
(61) CHANNEL & CHANNEL PROTECTION N
(62) CULVERTS N

## LOAD RATING AND POSTING CODE

(31) DESIGN LOAD HS 20 + MOD 6
(63) OPERATING RATING METHOD - Load Factor 1
(64) OPERATING RATING - HS-53 95
(65) INVENTORY RATING METHOD - Load Factor 1
(66) INVENTORY RATING - HS-32 57
(70) BRIDGE POSTING - No Posting Required 5
(41) STRUCTURE OPEN, POSTED ,OR CLOSED A
DESCRIPTION - Open, No Restriction

## APPRAISAL CODE

(67) STRUCTURAL EVALUATION 6
(68) DECK GEOMETRY 4
(69) UNDERCLEARANCES,VERTI & HORIZ 3
(71) WATERWAY ADEQUACY N
(72) APPROACH ROADWAY ALIGNMENT 6
(36) TRAFFIC SAFETY FEATURES 0111
(113)SCOUR CRITICAL BRIDGES N

## PROPOSED IMPROVEMENTS

(75) TYPE OF WORK - CODE
(76) LENGTH OF STRUCTURE IMPROVEMENT
(94) BRIDGE IMPROVEMENT COST
(95) ROADWAY IMPROVEMENT COST
(96) TOTAL PROJECT COST
(97) YEAR OF IMPROVEMENT COST ESTIMATE
(114)FUTURE ADT 8600 (115) YEAR FUTURE ADT 2025

## INSPECTIONS

(90) INSPECTION DATE 10/07/2014
(92) CRITICAL FEATURE INSPECTION : (93) CFI DATE
A) FRACTURE CRIT DETAIL - NO A)
B) UNDERWATER INSP - NO B)
C) OTHER SPECIAL INSP NO C)
SCOUR

Structure No: 350126 County: GASTON Run Date:

| Span Number | Feature Intersected | Inventory Route | Minimum Maximum Vertical Clearance | Milepoint | Base Highway Network | LRS Inventory Route | Toll | Functional Classification | Numer of Lanes | Average Daily Traffic | Year of Average Daily Traffic | Total Horizontal Clearance | See Note 1 | | | | | STRAHNET Highway Designator | Direction of Traffic | Highway System of Route |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | Reference Feature | Minimum Vertical Underclearance | Right Lateral Underclearance | Left Lateral Underclearance | Underclearance Appraisal Grade | | | |
| | 6 | 5 | 10 | 11 | 12 | 13 | 20 | 26 | 28 | 29 | 30 | 47 | 54A | 54 | 55 | 56 | 69 | 100 | 102 | 104 |
| 2 | I85S | 11000850 | 16.42 | 18.50 | 1 | 10085 | | 11 | 3 | 50000 | 2013 | 50.75 | H | 16.33 | 8.58 | 6.17 | 9 | 1 | 1 | 1 |
| 3 | I85N | 11000850 | 16.25 | 18.50 | 1 | 10085 | | 11 | 3 | 50000 | 2013 | 50.75 | H | 16.17 | 8.08 | 6.67 | 9 | 1 | 1 | 1 |

Note 1: Items 54, 55, and 56 are not reported FHWA under route data points but are collected for each under route to determine the minimum value for Underclearance Appraisal Item 69. The under route that generates the lowest Underclearance Appraisal value will be reported on the Facility Carried record.

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE Run Date: 12/15/2014

COUNTY : GASTON
DIVISION : 12
DISTRICT: 1
STRUCTURE NUMBER : 350126
LENGTH : 261 FEET

ROUTE CARRIED : MODENA STREET
FEATURE INTERSECTED : I85

LOCATED : 1.3 MI. N. JCT. US321
BRIDGE NAME :
CITY : GASTONIA

FUNC. CLASS : 17
SYST.ON : FA
SYST.UNDER : NFA
ADT & YR : 4300 2012
RAIL TYPE : LT 139 RT 139

BUILT : 1963
BY : SHC
PROJ : 8.16361
FED.AID PROJ : I-85-1(14)18
DESIGN LOAD : HS 20 + MOD

REHAB :
BY :
PROJ :
ALIGNMENT : TAN
SKEW : 122
LANES : ON 2 UNDER 6

NAVIGATION : VC 0 FT HC 0 FT
HT. CRN. TO BED : 0 FT
WATER DEPTH : 0 FT

SUPERSTRUCTURE : REINFORCED CONCRETE DECK ON I-BEAMS

SUBSTRUCTURE : ABUTS:RC SPILL THROUGH; INTBTS:RC POST&BEAM/SPREAD FTGS.

SPANS : 1@64', 1@68'-2, 1@67'-10, 1@60'-6

BEAMS OR GIRDERS : 6 LINES 36 I-BEAMS @ 7' CENTERS

FLOOR : 7.5 RC/NO AWS
ENCROACHMENT : UTILITY LINES
DECK (OUT TO OUT) : 40.458 FT

CLEAR ROADWAY : 28 FT
BETWEEN RAILS : 38.25 FT
SIDEWALK OR CURB : LT 5.1 FT RT 5.1 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-32
OPE.RTG. : HS-53
CONTR.MEMBER : Int.bmsSpD
POSTED : SV TTST DATE

SYSTEM : Primary Muncipal roads over State System
GREEN LINE ROUTE : Y

UNDER ROUTES AND CLEARANCES

| Span | Route Description | Vertical Clearances | | Horizontal Clearances | | |
|---|---|---|---|---|---|---|
| | | MMVC | MVC | Total | Left | Right |
| 2 | I85S | 16.4170 | 16.3330 | 50.75 | 6.1670 | 8.5830 |
| 3 | I85N | 16.25 | 16.1670 | 50.75 | 6.6670 | 8.0830 |

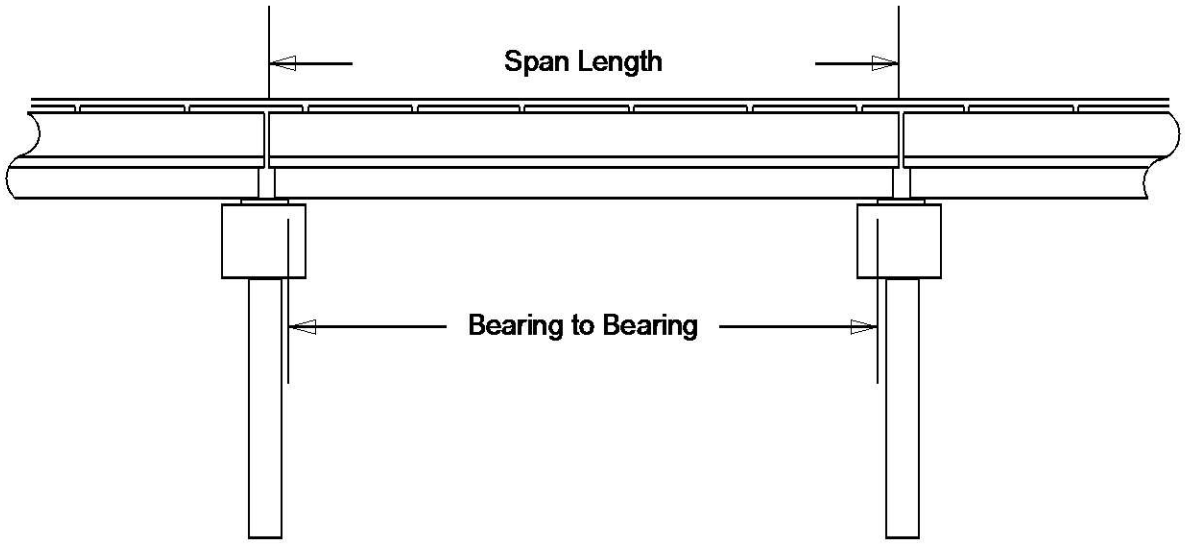
Note: All measurements are in feet.

REMARKS :

# Structure Data Worksheet



County: GASTON Structure No: 350126 Date: Inspected By: dcr




| Span No | Span Length | Bearing to Bearing | Comments |
|---|---|---|---|
| 1 | 64.0' | 61.667' | |
| 2 | 68.167' | 66.833' | |
| 3 | 67.833' | 66.792' | |
| 4 | 60.500' | 58.167' | NBIS=258.5' |

# Bridge Inspection Field Sketch


SECTION @ 50' FROM WEST FILLFACE

| | | | |
|---|---|---|---|
| Roadway | 28ft Wide | 2 Paved Lanes | Looking East |
| Left Shoulder | 8ft Wide | 2ft Paved | 6ft Unpaved |
| Right Shoulder | 6.667ft Wide | 2ft Paved | 4.667ft Unpaved |
| Left Guardrail | 8ft from road | | |
| Right Guardrail | 6.667ft from road | | |

verified by derek rickus on 10/7/2014

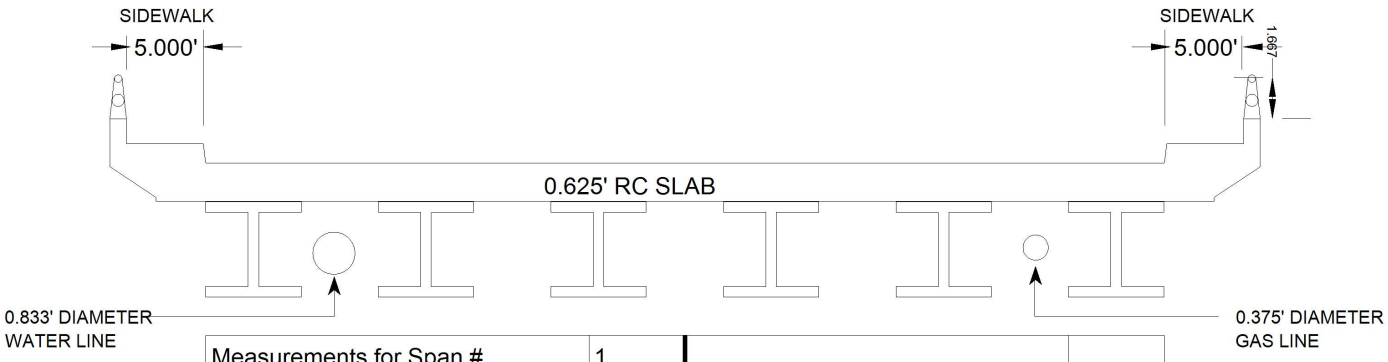
| **Title** | **Description** | | |
|---|---|---|---|
| APPROACH ROADWAY | LOOKING EAST | | |
| **Bridge No:** 350126 | **Drawn By:** DCR | **Date:** 9/4/08 | **File Name:** S0146030620 |

# Bridge Inspection Field Sketch

RAIL TYPE : 13

TYPICAL SECTION LOOKING EAST

| | | | |
|---|---|---|---|
| Deck Width/Out to Out | 40.458ft | Wearing Surface | |
| Between Rails | 38.25ft | Median Width | |
| Curb Height | 0.958ft | Median Height | |
| Top Rail to Deck/Wearing Surface | 3.167ft | Left Guardrail Width | |
| Clear Roadway | 28ft | Right Guardrail Width | |
| Left Bridge Rail | Type 13 | Right Bridge Rail | Type 13 |




| | | | |
|---|---|---|---|
| Measurements for Span # | 1 | | |
| Deck Thickness | 0.625 | Left Overhang | 2.729 |
| Top of Rail to Bottom of Beam | 7.667 | Right Overhang | 2.729 |

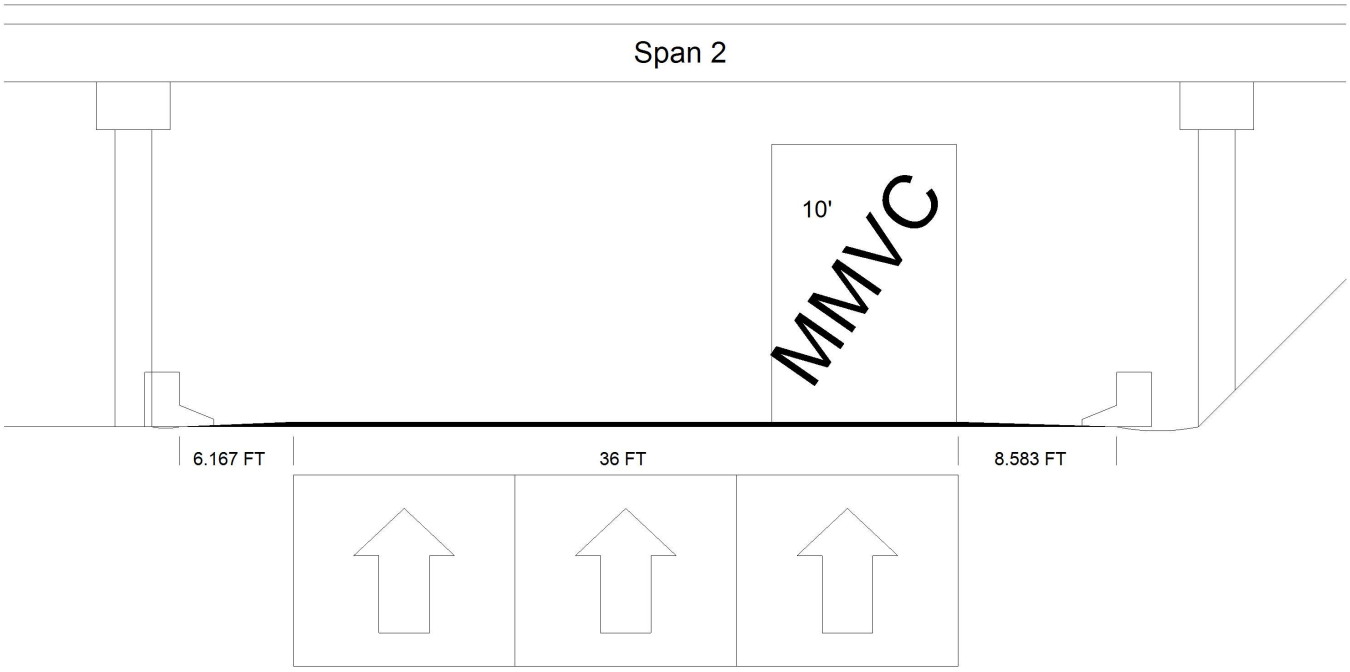
| Beam No | Beam Type | Spacing | Comments |
|---|---|---|---|
| 1 | Steel I Beam | 7.000 ft. | 1.0' X 2.958' W/ 0.068 FLG. & 0.042 WEB |
| 2 | Steel I Beam | 7.000 ft. | 1.0' X 2.958' W/ 0.068 FLG. & 0.042 WEB |
| 3 | Steel I Beam | 7.000 ft. | 1.0' X 2.958' W/ 0.068 FLG. & 0.042 WEB |
| 4 | Steel I Beam | 7.000 ft. | 1.0' X 2.958' W/ 0.068 FLG. & 0.042 WEB |
| 5 | Steel I Beam | 7.000 ft. | 1.0' X 2.958' W/ 0.068 FLG. & 0.042 WEB |
| 6 | Steel I Beam | | 1.0' X 2.958' W/ 0.068 FLG. & 0.042 WEB |

verified by derek rickus on 10/7/2014

| Title | Description |
|---|---|
| DECK DIMENSIONS | SUPERSTRUCTURE |

| Bridge No: | Drawn By: | Date: | File Name: |
|---|---|---|---|
| 350126 | DCR | 9/4/08 | S0146030621 |

# Bridge Inspection Field Sketch

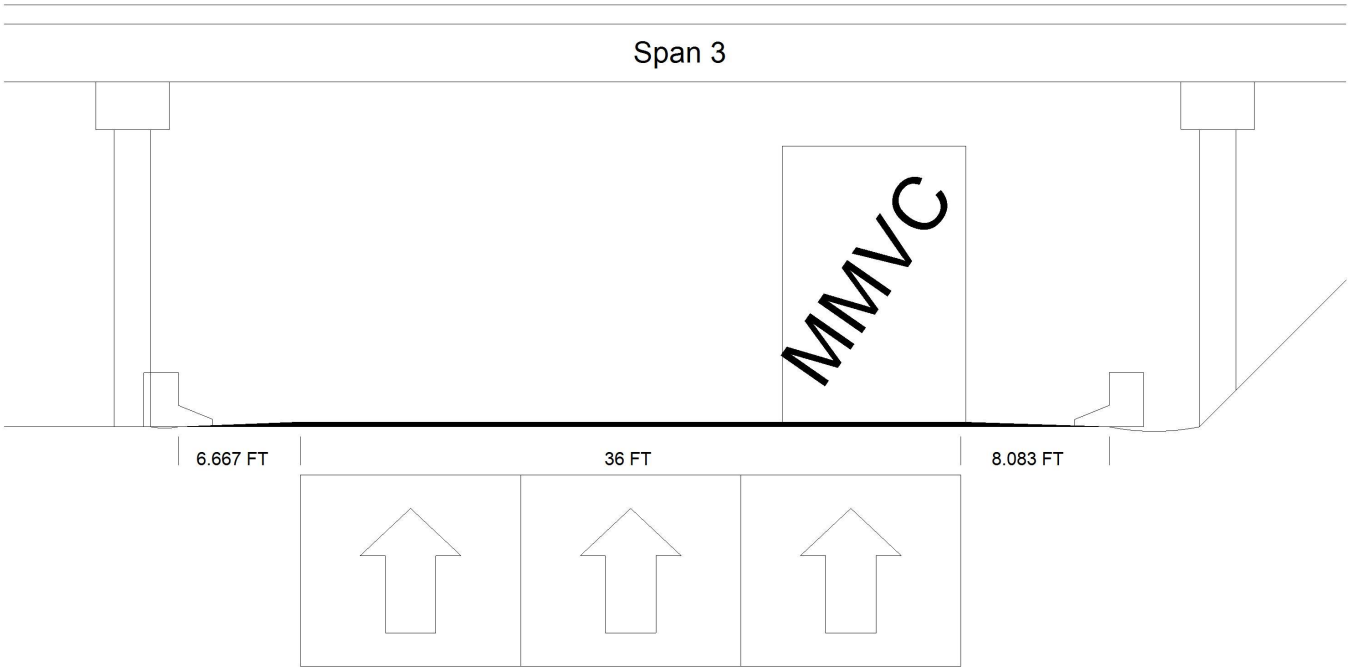



| | | | |
|---|---|---|---|
| Roadway 1 | | Direction of Traffic | South |
| Distance to Left Rail | 6.167FT | Distance to Right Rail | 8.583FT |
| Distance to Left Toe of Slope | | Distance to Left Bent | 7.667FT |
| Distance to Right Toe of Slope | 13FT | Distance to Right Bent | 10.083FT |
| MMVC | 16.417 Ft at Beam 1, 10 FT from RIGHT EDGE OF ROADWAY | | |
| MVC | 16.333 Ft at Beam 1, 0 FT from LEFT EDGE OF ROADWAY | | |

verified by derek rickus on 10/7/2014

| **Title** | **Description** | | |
|---|---|---|---|
| SPAN #2 OVER I-85 SB | SPAN #2 UNDERCLEARANCE | | |
| **Bridge No:** 350126 | **Drawn By:** DCR | **Date:** 9/4/08 | **File Name:** S0146030622 |

# Bridge Inspection Field Sketch

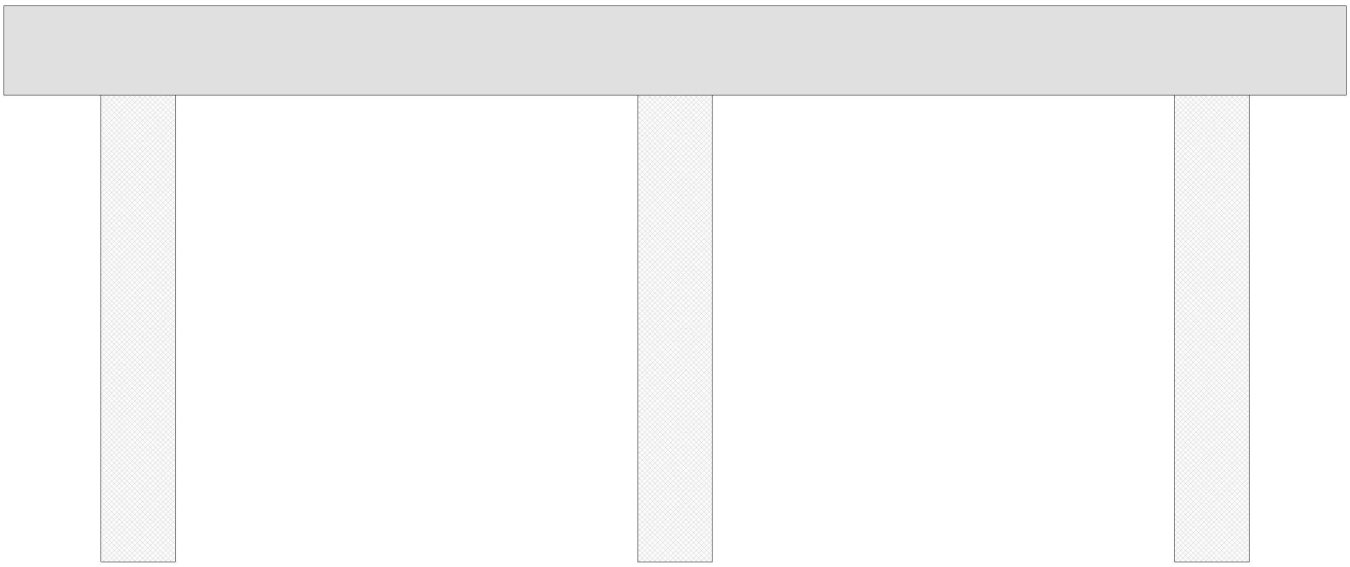



| | | | |
|---|---|---|---|
| Roadway 1 | | Direction of Traffic | North |
| Distance to Left Rail | 6.667FT | Distance to Right Rail | 8.083FT |
| Distance to Left Toe of Slope | | Distance to Left Bent | 8.167FT |
| Distance to Right Toe of Slope | 13FT | Distance to Right Bent | 9.583FT |
| MMVC | 16.25 Ft at Beam 1, 10 FT from RIGHT EDGE OF ROADWAY | | |
| MVC | 16.167 Ft at Beam 1, 0 FT from LEFT EDGE OF ROADWAY | | |

verified by derek rickus on 10/7/2014

| **Title** | **Description** | | |
|---|---|---|---|
| SPAN #3 OVER I-85 NB | SPAN #3 UNDERCLEARANCE | | |
| **Bridge No:** 350126 | **Drawn By:** DCR | **Date:** 9/4/08 | **File Name:** S0146030623 |

# Bridge Inspection Field Sketch



| Cap Information | | | Material Cast-in-Place Concrete | | | |
|---|---|---|---|---|---|---|
| Length | Width | Height | Left Overhang | Right Overhang | Left Beam to End of Cap. | Right Beam to End of Cap. |
| 45.000 ft. | 3.000 ft. | 3.000 ft. | 4.500 ft. | 4.500 ft. | 1.833 ft. | 1.833 ft. |

| Subcap Information | | | Material | | |
|---|---|---|---|---|---|
| Length | Width | Height | Left Overhang | Right Overhang | Left Pile to Splice. |
| | | | | | |

| Sill Information | | | Material |
|---|---|---|---|
| Length | Width | Height | |
| | | | |

| Pile # | Material | Spacing | Width/Dia. | Height | Length | Orientation | Driven? | Replacement? | Removed? | Collar? |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Concrete | 18.000 ft. | 2.500 ft. | 3.000 ft. | | Vertical | No | No | No | No |
| 2 | Concrete | 18.000 ft. | 2.500 ft. | 3.000 ft. | | Vertical | No | No | No | No |
| 3 | Concrete | | 2.500 ft. | 3.000 ft. | | Vertical | No | No | No | No |

verified by derek rickus on 10/7/2014

Bent/Abutment #: 1 Similar Bents: 2,3

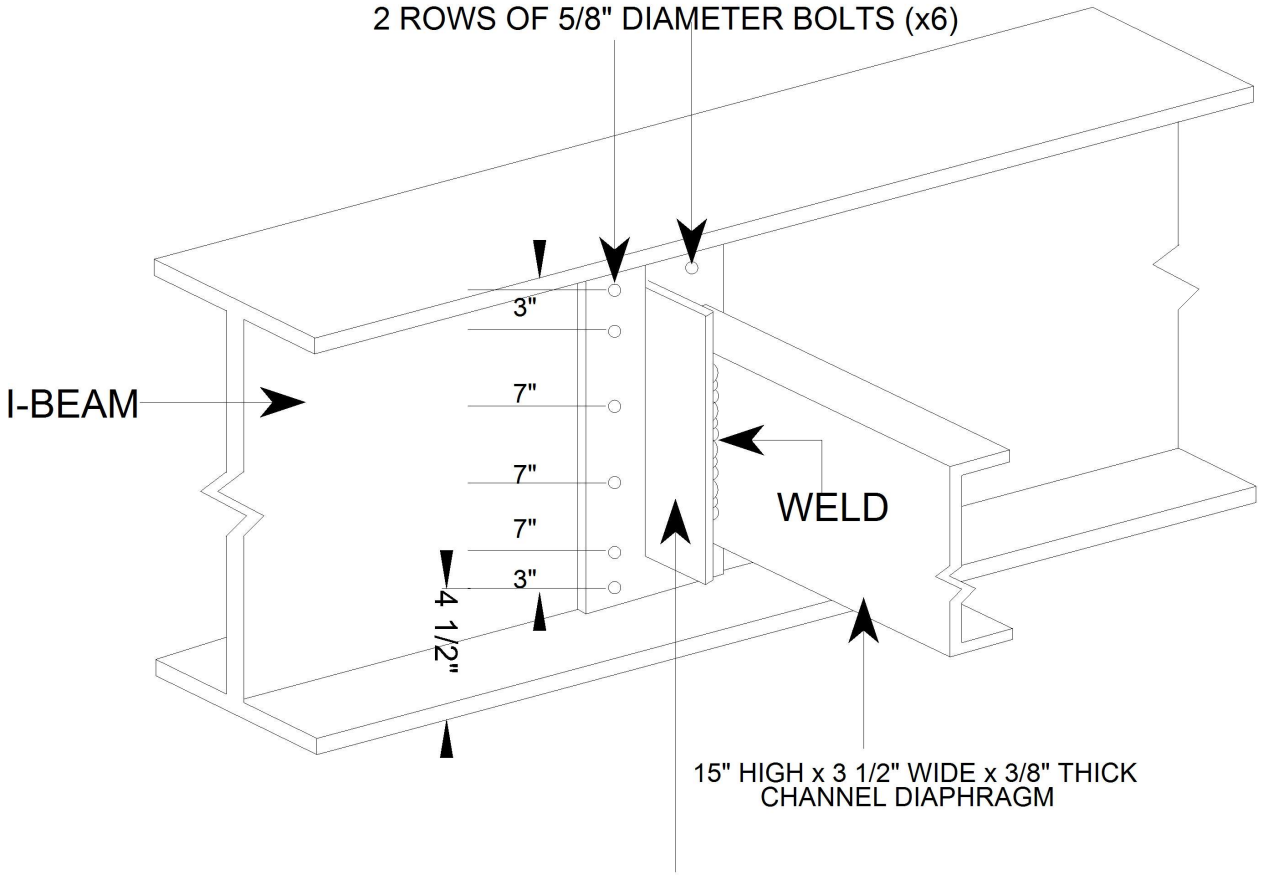
| Title | Description |
|---|---|
| INTERIOR BENTS | SUBSTRUCTURE DETAILS |

| Bridge No: | Drawn By: | Date: | File Name: |
|---|---|---|---|
| 350126 | DELVIN ADAMS | 9/6/2012 | S0146031720 |

# Bridge Inspection Field Sketch

## DIAPHRAGM DETAILS

LOCATIONS : 1/3 POINTS OF SPANS




verified by derek rickus on 10/7/2014

| Title | Description |
|---|---|
| INTERMEDIATE DIAPHRAGMS | DIAPHRAGM DETAILS |

| Bridge No: | Drawn By: | Date: | File Name: |
|---|---|---|---|
| 350126 | DELVIN ADAMS | 9/6/2012 | S0146031721 |