APPENDIX G

BRIDGE INSPECTION REPORT
**Bridge Ratings**

<table>
<thead>
<tr>
<th>Carried: 7</th>
<th>7</th>
<th>11081032</th>
<th>Crossed: 871</th>
<th>87111082049</th>
<th>CheckValue: 2,089,191,874</th>
</tr>
</thead>
</table>

| Inspection Date: 10/27/2006 | RC: 11 | BIN: 1004250 |

**Inspection Agency:** 10 - NYSDOT  
**Type of Inspection:** 1 - BIENNIAL  
**GTMS:** 302 -- Steel - Stringer/Multi-Beam or Girder  
**POSTINGS:** See Gen Rec Page 1 for Postings at time of inspection.  
**Further Investigation Needed:** No  
**State Highway Number:** 604  
**Milepoint:** 8103.21  
**AADT/Yr:** 90021 / 2005  
**Orientation:** 4 - Southeast  
**Political Unit:** 0187 - Town of Colonie  
**Year Built:** 1959  
**General Recommendation:** 5  
**Computed Condition Rating:** 4.344

### Abutment Ratings:

<table>
<thead>
<tr>
<th>Beg Abut</th>
<th>End Abut</th>
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<tbody>
<tr>
<td>Joint with Deck</td>
<td>5</td>
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<tr>
<td>Bearings, Bolts, Pads</td>
<td>4</td>
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<tr>
<td>Seats and Pedestals</td>
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<tr>
<td>Backwall</td>
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<tr>
<td>Stem (Breastwall)</td>
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<tr>
<td>Erosion or Scour</td>
<td>5</td>
</tr>
<tr>
<td>Footings</td>
<td>9</td>
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<tr>
<td>Piles</td>
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<tr>
<td>Recommendation</td>
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### Wingwall Ratings:

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<td>Walls</td>
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<tr>
<td>Footings</td>
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<tr>
<td>Erosion or Scour</td>
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<tr>
<td>Piles</td>
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<tr>
<td>Recommendation</td>
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### Channel Ratings:

<table>
<thead>
<tr>
<th>Channel</th>
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<tbody>
<tr>
<td>Stream Alignment</td>
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<tr>
<td>Erosion and Scour</td>
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<tr>
<td>Waterway Opening</td>
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<td>Bank Protection</td>
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### Approach Ratings:

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<tr>
<th>Approaches</th>
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<tbody>
<tr>
<td>Drainage</td>
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<tr>
<td>Embankment</td>
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<tr>
<td>Settlement</td>
</tr>
<tr>
<td>Erosion</td>
</tr>
<tr>
<td>Pavement</td>
</tr>
<tr>
<td>Guide Railing</td>
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</tbody>
</table>

### Number of Flags Issued:

- RED: 0
- Yellow: 0
- Safety: 1

**Vulnerability Reviews Recommended:** 1=Yes, 2=No, 3=NA, X=NotActive

- Hydraulic: 3
- Overload: X
- Steel: 2
- Collision: 3
- Concrete: X
- Seismic: X

**Inspector's Signature:**  
**CheckValue:** 2,089,191,874  
**Date:** 10/27/2006

**Reviewed By:**  
**Date:** 1/11/2007

Signed copy of this inspection report is available in the appropriate NYSDOT Regional Office.
**Span Ratings**

**Inspection Date:** 10/27/2006  
**RC:** 11  **BIN:** 1004250  
**Check Value:** $2,089,191,874  
**Carried:** 7  7 11081032  
**Crossed:** 87I  87I11082049  

### Deck Element Ratings:

<table>
<thead>
<tr>
<th>Element</th>
<th>001</th>
<th>002</th>
<th>003</th>
<th>004</th>
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<tbody>
<tr>
<td>Wearing Surface</td>
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<td>5</td>
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</tr>
<tr>
<td>Curbs</td>
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<td>6</td>
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<tr>
<td>Sidewalks, Fascias</td>
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<tr>
<td>Railings, Parapets</td>
<td>7</td>
<td>7</td>
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<td>7</td>
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<td>Scuppers</td>
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<td>Gratings</td>
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<td>Median</td>
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<tr>
<td>Mono Deck Surface</td>
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### Superstructure Ratings:

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<tr>
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<tr>
<td>Primary Members</td>
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<td>Secondary Members</td>
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<td>Paint</td>
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<td>Joints</td>
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<td>Recommendation</td>
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### Pier Ratings:

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<th>001</th>
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<th>004</th>
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<tbody>
<tr>
<td>Bearings, Bolts, Pads</td>
<td>4</td>
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<td>Pedestals</td>
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<td>Top of Cap or Beam</td>
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<td>Stem Solid Pier</td>
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<td>Cap Beam</td>
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<td>Erosion or Scour</td>
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<td>Piles</td>
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### Utility Ratings:

<table>
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### Field Notes:

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<tr>
<th>Field Date</th>
<th>Arrival</th>
<th>Departure</th>
<th>Temp (C)</th>
<th>Temp (F)</th>
<th>Weather Conditions</th>
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<tbody>
<tr>
<td>10/26/2006</td>
<td>10:00:00 AM</td>
<td>3:00:00 PM</td>
<td>6</td>
<td>43</td>
<td>partly cloudy</td>
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<tr>
<td>10/27/2006</td>
<td>10:30:00 AM</td>
<td>1:30:00 PM</td>
<td>6</td>
<td>43</td>
<td>clear</td>
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</tbody>
</table>
Inspection Date: 10/27/2006

Note ID: 1G0610042500002
Approaches: Pavement -- Rated 4, Was 5

Referenced Photos: "23"
Several sections of granite curbs adjacent to bridge on left are loose over ~5m total length and have drifted up to .2m laterally away from sidewalk. Otherwise asphalt has some scattered cracking but both approaches have very good rideability overall.

Note ID: 1G0610042500003
Span 001 -- Superstructure: Structural Deck -- Rated 4, Was 4
Span 004 -- Superstructure: Structural Deck -- Rated 4, Was 4
Referenced Photos: "21", "20"
Approach spans 1+ 4 similar. ~1/3 of underside shows signs of leakage (surface powdery or fine random cracking with some areas of efflorescence accumulation) with a few small isolated areas of shallow delamination or spalling (<2 sq. meters total each span).

Note ID: 1G0610042500006
Span 001 -- Superstructure: Paint -- Rated 4, Was 4
Span 002 -- Superstructure: Paint -- Rated 4, Was 4
Span 003 -- Superstructure: Paint -- Rated 4, Was 4
Span 004 -- Superstructure: Paint -- Rated 4, Was 4
Referenced Photos: "1", "4", "21"
All 4 spans fairly similar. ~20% of area has scattered light to mediumly developed rust/peeling (scattered on bottom flanges, some well developed on outside face bottom flange of fascia beams + above piers). Otherwise faded but holding.

Note ID: 1G0610042500007
Span 001 -- Superstructure: Joints -- Rated 4, Was 4
Referenced Photos: "24"
Underside shows signs of active leakage in both fascia bays. Joint appears ok topside.

Note ID: 1G061004250000A
Span 001 -- Pier: Bearings, Bolts, Pads -- Rated 4, Was 4
Referenced Photos: "15", "17"
Several span 1 sliders improperly positioned (#9-11 over expanded about even with end of masonry plate with #1+8 similarly overcontracted, all at 6 C). Otherwise generally corroded probably rusted frozen.

Note ID: 1G0610042500004
Span 002 -- Superstructure: Structural Deck -- Rated 4, Was 4
Span 003 -- Superstructure: Structural Deck -- Rated 4, Was 4
Referenced Photos: "6", "8", "11", "22", "27"
Main spans 2 + 3 similar. ~3/4's of underside is obstructed by planking (installed to catch concrete falling onto traffic below). ~1/3 of underside shows signs of leakage (surface powdery
Note ID: 1G0610042500004 - continued
or fine random cracking with some areas of efflorescence accumulation) with numerous areas
spalled off (with some rebar exposure) and/or delaminated.

Note ID: 1G0610042500005
Span 002 -- Superstructure: Primary Members -- Rated 4, Was 4
Referenced Photos: "13", "14", "16"
Girders have been repeatedly impacted and repaired by heat straightening over the last several
years. Current condition of impacted beams as follows:

Beam #1 worst with bottom flange and web pushed transversely ~.7m out of plumb + has
numerous dings, dents and scratches.
Beams #2, 5+7 have bottom flange pushed transversely ~.2m out of plumb + have some minor
dings and scratches.
Beam #6 has bottom flange pushed transversely ~.4m out of plumb + has a few minor dings and
scratches.
Ok otherwise.

Note ID: 1G0610042500008
Span 002 -- Superstructure: Joints -- Rated 3, Was 4
Referenced Photos: "9", "10", "25"
Underside shows signs of active leakage in both fascia bays. Concrete on underside in bay 7 is
heavily spalled with exposed rebar. Bridge seat below bay 7 has ~.3m high of concrete debris
from joint spalling off. Daylight in same area can be seen from below. Topside in same area and
in second lane from left span 2 side steel header is missing (over ~6m total on roadway width).

Note ID: 1G061004250000B
Span 002 -- Pier: Bearings, Bolts, Pads -- Rated 3, Was 3
Referenced Photos: "7", "12"
Span 3 fixed bearings have numerous anchor bolt nuts broken off (both on #2,8,9; left one on #
5,6,10; right one on #4,7). Span 2 sliders positioned ok except #1 is overcontracted some (1cm
from end of masonry plate at 6 C). Otherwise generally corroded and appear rusted frozen.

Note ID: 1G0610042500009
Span 003 -- Superstructure: Joints -- Rated 4, Was 4
Referenced Photos: "5", "26"
Underside shows signs of active leakage in both fascia bays. Steel headers topside in leftmost
lane are gone over ~3m length total and replaced with only joint seal. Otherwise topside appears
ok.
| Note ID: 1G061004250000C | Span 003 -- Pier: Bearings, Bolts, Pads -- Rated 4, Was 4  
Referenced Photos: "3"  
Span 3 sliders mostly over expanded (about even with end of masonry plate at 6C). Otherwise generally corroded probably rusted frozen. |
| Note ID: 1G061004250000D | Span 003 -- Utilities: Utilities and Support -- Rated 2, Was 2  
Referenced Photos: "2"  
Transverse utility conduit on right half of span near end (abandoned?) is heavily corroded exposing wires in areas. |
| Note ID: 1G061004250000E | Span 004 -- Utilities: Utilities and Support -- Rated 3, Was 3  
Referenced Photos: "18"  
Wire junction box under bay 2 in front of end abutment has missing cover exposing several wires (condition safety flagged). |
| Note ID: 1G0610042500000 | End Abut -- Abutment: Bearings, Bolts, Pads -- Rated 4, Was 4  
Referenced Photos: "19"  
Sliders all over contracted some (all about even with end of masonry plate at 6C). Ok otherwise. |
| Note ID: 1G0610042500001 | End Abut -- Abutment: Backwall -- Rated 4, Was 4  
Referenced Photos: "28"  
Near top of wall has some scattered ~25mm deep spalls (~2 sq. meters total, worst bays 4-6). Majority of surface has fine surface type cracking/dampness but is sound when struck. |
Inspection Photos in Photo Number Order

Inspection Date: 10/27/2006
RC: 11 BIN: 1004250

Carried: 7 Crossed: 87I

CheckValue: 2,089,191,874

outside face G12, span 3 (typical)

wiring conduit near G11 toward end span 3
Inspection Date: 10/27/2006          RC: 11    BIN: 1004250

Inspection Photos in Photo Number Order

Carried:  7  7 11081032    Crossed:  87I  87111082049    CheckValue: 2,089,191,874

bearings for G11, pier 3

Location: steel above pier 3, bay 10 (typical)
### Inspection Photos in Photo Number Order

**Inspection Date:** 10/27/2006  
**RC:** 11  
**BIN:** 1004250  
**Check Value:** 2,089,191,874  
**Carried:** 7  
**Crossed:** 87I 87I11082049  

<table>
<thead>
<tr>
<th>Photo Number</th>
<th>Photo Filename</th>
<th>Description</th>
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<tbody>
<tr>
<td>5</td>
<td>10-26-06 005.jpg</td>
<td>pier 3 under bays 1+2</td>
</tr>
<tr>
<td>6</td>
<td>10-26-06 006.jpg</td>
<td>deck underside, bay 10, span 2</td>
</tr>
</tbody>
</table>
Inspection Date: 10/27/2006  
RC: 11  BIN: 1004250

Inspection Photos in Photo Number Order

Carried: 7  7 11081032  Crossed: 87I  87I11082049  CheckValue: 2,089,191,874

bearings for G9, pier 2

Location: deck underside, bay 8, span 2

Photo Number: 7  Photo Filename: 10-26-06 007.jpg

Photo Number: 8  Photo Filename: 10-26-06 008.jpg
<table>
<thead>
<tr>
<th>Photo Number</th>
<th>Photo Filename</th>
<th>Location</th>
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<tbody>
<tr>
<td>9</td>
<td>10-26-06 009.jpg</td>
<td>underside of pier 2 joint, bay 7</td>
</tr>
<tr>
<td>10</td>
<td>10-26-06 010.jpg</td>
<td>Location: top of bridge seat, pier 2, bay 7</td>
</tr>
</tbody>
</table>
Inspection Date: 10/27/2006
RC: 11  BIN: 1004250

Inspection Photos in Photo Number Order

Carried: 7 7 11081032  Crossed: 871 87111082049  CheckValue: 2,089,191,874

Location: underside of deck, span 2, bay 6

Photo Number: 11  Photo Filename: 10-26-06 011.jpg

Location: bearings for G1, pier 2

Photo Number: 12  Photo Filename: 10-26-06 012.jpg
<table>
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<th>Inspection Date: 10/27/2006</th>
<th>RC: 11</th>
<th>BIN: 1004250</th>
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<tbody>
<tr>
<td><strong>Inspection Photos in Photo Number Order</strong></td>
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<tr>
<td>Carried: 7</td>
<td>Crossed: 87I</td>
<td>CheckValue: 2,089,191,874</td>
</tr>
</tbody>
</table>

**outside face G1, span 2**

![Photo Number: 13](10-26-06_013.jpg)

Location: G3 underside, span 2

![Photo Number: 14](10-26-06_014.jpg)
Inspection Photos in Photo Number Order

Inspection Date: 10/27/2006  
RC: 11  BIN: 1004250

Carried: 7  7 11081032  
Crossed: 87I  87I11082049  
CheckValue: 2,089,191,874

bearings for G4, pier 1

Location: underside of G6, span 2

Photo Number: 15  
Photo Filename: 10-26-06 015.jpg

Photo Number: 16  
Photo Filename: 10-26-06 016.jpg
Inspection Photos in Photo Number Order

Location: bearings for G12, pier 1

~left corner of end abutment

Carried: 7
Crossed: 87
CheckValue: 2,089,191,874

Inspection Date: 10/27/2006
RC: 11  BIN: 1004250

Photo Number: 17  Photo Filename: 10-26-06 017.jpg

Photo Number: 18  Photo Filename: 10-27-06 002.jpg
Inspection Date: 10/27/2006  
RC: 11  BIN: 1004250

**Inspection Photos in Photo Number Order**

Carried: 7  11081032  Crossed: 871  11082049  CheckValue: 2,089,191,874

**bearings #4 at end abutment**

**right side span 4 looking toward end abutment at deck underside (typical)**
Location:
begin center of span 4
looking towards end
abutment (typical)

Location:
leftside begin span 3
looking toward begin right
<table>
<thead>
<tr>
<th>Photo Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>23</td>
<td>begin left curb at begin joint</td>
<td>10-27-06 006.jpg</td>
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<tr>
<td>24</td>
<td>overall pier 1 joint looking from left to right</td>
<td>10-27-06 007.jpg</td>
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</tbody>
</table>
Inspection Photos in Photo Number Order

Inspection Date: 10/27/2006
RC: 11   BIN: 1004250

Location:
pier 2 joint overall
looking from left to right

Photo Number: 25
Photo Filename: 10-27-2006 004.jpg

Location:
pier 3 joint overall
looking from left to right

Photo Number: 26
Photo Filename: 10-27-2006 003.jpg
<table>
<thead>
<tr>
<th>Photo Number</th>
<th>Location Description</th>
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<tbody>
<tr>
<td>27</td>
<td>begin span #3 right corner looking directly above at deck underside</td>
</tr>
<tr>
<td>28</td>
<td>end backwall ~ center of bridge showing mostly bay 5</td>
</tr>
</tbody>
</table>
Inspection Date: 10/27/2006  

RC: 11  BIN: 1004250

Inspection Sketches in Sketch SysID Order

Sketch ID: 1G0610042500000  Sketch Filename: BD186.06

General Sketch for Bridge

Referenced Photos:

photo location map
**Overall Condition:**

- **GENERAL RECOMMENDATION:** 5
- **Computed Condition Rating:** 4.344

**Problems Requiring Action:**

- NO Further Investigation Needed
- SAFETY Flag(s) Issued

**POSTINGS:**

- Inspector Confirmed existing Posting data as correct.
- Posted Vertical Clearance ON the bridge is: No Posting
- Posted Vertical Clearance UNDER the bridge is: No Posting
- No Load Restriction is posted on this bridge

**Overloads Observed:**

- NO Overload Vehicles were observed on this bridge

**FEDERAL RATINGS:**

- NBI Deck Condition: 5
- NBI Superstruct Condition: 5
- NBI Substruct Condition: 6
- NBI Channel Condition: N
- NBI Culvert Condition: N

**Diving Inspection Needs:**

- Diving Inspection Required? No
- Date of Last Diving Inspection: No Date

**Inventory Problems:**

- Inventory Problems Exist? No

**Miscellaneous:**

- Time Required to Inspect Bridge: 8 Hours
- Lane Closure Needs: By Contract for 5 Hours
- No Railroad Flagging Required
- There is a Pedestrian Fence 9.00 Feet High
- No Snow Fence
- The BIN Plate is in OK condition
**Inspection Date:** 10/27/2006  
**RC:** 11  
**BIN:** 1004250  

**Gen. Rec., Postings, Federal Ratings, etc.**

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<th>CheckValue:</th>
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</thead>
</table>

### Special Emphasis Inspection Required:

Non-Redundant/Fracture Critical Members - No  
Pin and Hangers - No  
Fatigue-Prone Welds - Yes  
Non-Categorized Fatigue-Prone Details - No  
Other (Specified in Text) - No

### Special Emphasis Details:

Category E welds at ends of partial length cover plates, interior girders, spans 2-4, however, 100% hands-on inspection requirement is waived due to adequate remaining safe fatigue life.

### General Notes To the Next Inspector:

Category E welds located at ends of partial length cover plates, interior girders, spans 2, 3, and 4, however, 100% hands-on inspection requirement is waived due to adequate remaining safe fatigue life.

### Improvements Observed:

None.
### Inspection Date: 10/27/2006

#### RC: 11  BIN: 1004250

#### Review Progress and Personnel Present at Inspection

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<thead>
<tr>
<th>Carried: 7</th>
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#### Inscription Submission Status:

- Submitted to QC Engineer on: 12/12/2006  
  QC Submission Number: G51618
  QC Engineer: Lou Rehder
- Submitted to Liaison Engineer on: 1/18/2007  
  Liaison Submission Number: 5163602
  Liaison Engineer: ID: 51000016
- Submitted for BIIS Processing on: 3/13/2007  
  BIIS Submission Number: .kp1
- Current Status: Keypunched, Sent to BIIS  
  Check Value: 2,089,191,874

#### Personnel Present During Inspection:

- David A. Inglis - Team Leader
- Krikor Mahserdjian - Assistant Team Leader
- Mihaela Bruma - ATL in training
- Donnelly Construction - Traffic M&P
- Brian LaFleur - Bucket Truck Operator
Promt Interim Action Recommended: No

Inspector: Inglis, David A.                  Date Discovered: 10/27/2006
Flag Number: 1G060018                        Supersedes Flag Number: 1D040002

Bridge Description:
BIN: 1004250          Carried:  7    7 11081032     Crossed:  87I  87I11082049

Region: 1 - Albany    County: 1 - Albany
Primary Owner:        10 - State Department of Transportation
Primary Maintenance: 10 - State - Highway Maintenance
Year Built: 1959        Not Posted For Load

Number of Spans by Type: Num Type Description
004 - 109 - Steel - Rolled Beam, Multi-Girder

Bridge is wholly or partially owned or maintained by NYSDOT.

Description of Flagged Condition:
Condition re flagged from 2004 inspection. Wire junction box under bay 2 in front of end abutment has missing cover exposing several wires, which could possibly be hazardous to a pedestrian.

1 Photos/Sketches Attached

Verbal Notifications: (For RED Flags and Safety Flags with PIA only)
To: ____________________ of Regional Office on ________ at ________

Signature:     (a signed copy of this report will be placed in the BIN folder)
Flagged Bridge Report Completed By: Inglis, David A. on 10/27/2006
Flagged Bridge Report Signed By: ______________________________ on ________
     Inglis, David A.

(This PDF Report Created: 3/13/2007 9:17:38 AM)
Discovery Date: 10/27/2006  
RC: 11  BIN: 1004250  

Safety Flag 1G060018 Attachment

Carried: 7  7 11081032  Crossed: 87I  87I11082049  

10-27-06_002.jpg - Attached to Safety Flag 1G060018

Wire junction box under bay 2 in front of end abutment.
### Inspection Access Requirements

**Equipment Required for Inspection**

No Access Requirement Changes Noted During This Inspection. This Listing is from the Inventory Database.

**ACCESS CATEGORIES FOR ENTIRE BRIDGE**
- Required: Walking, Small Lift, Lane Closure, Shadow Vehicle

**ACCESS CATEGORIES FOR SPAN 1**
- Required: Walking, Small Lift

**ACCESS CATEGORIES FOR SPAN 2**
- Required: Walking, Small Lift, Lane Closure, Shadow Vehicle

**ACCESS CATEGORIES FOR SPAN 3**
- Required: Walking, Small Lift, Lane Closure, Shadow Vehicle

**ACCESS CATEGORIES FOR SPAN 4**
- Required: Walking, Small Lift
<table>
<thead>
<tr>
<th>Culvert Measurements</th>
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<tbody>
<tr>
<td><strong>Inspection Date:</strong> 10/27/2006</td>
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<tr>
<td><strong>Carried:</strong> 7 7 11081032</td>
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**Culvert Measurements**

NO CULVERT DATA FOR BIN 1004250
Standard Photos

RC: 11  BIN: 1004250

Carried: 7  7/11081032  Crossed: 87I  87/11082049

02begabut_3703.jpg
Carried: 7   7 11081032   Crossed: 871 87111082049

Standard Photos

02begapprch_3701.jpg
Standard Photos

RC: 11  BIN: 1004250

Carried:  7  7 11081032  Crossed:  87I  87I11082049

02begapprch_3712.jpg
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<th>7</th>
<th>11081032</th>
<th>Crossed:</th>
<th>87I</th>
<th>87I</th>
<th>11082049</th>
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02begrtww_3711.jpg
Standard Photos

RC: 11  BIN: 1004250

Carried:  7  7 11081032  Crossed:  87I  87I11082049

02endabut_3722.jpg
Standard Photos

RC: 11    BIN: 1004250

Carried: 7    7 11081032    Crossed: 87I 87I11082049

02ltprofile_3708.jpg
Carried: 7  7 11081032  Crossed: 87I 87I11082049

Standard Photos

RC: 11  BIN: 1004250

02P2_3704.jpg
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<tr>
<td>Carried: 7 11081032</td>
<td>Crossed: 87I 11082049</td>
<td></td>
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</table>

02PMs2g5-7_3706.jpg
Standard Photos

RC: 11   BIN: 1004250

Carried:  7  7 11081032   Crossed:  87I  87I11082049

02rtprofile_3721.jpg
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<td>Carried: 7 11081032</td>
<td></td>
<td>Crossed: 87I 87I11082049</td>
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</tbody>
</table>

1004250H.JPG
1004250_LOCATION_MAP.JPG
Standard Photos

RC: 11  BIN: 1004250

Carried: 7  7 11081032  Crossed: 87I  87I 11082049

1004250_QUAD_MAP.JPG