## FIELD REVIEW REPORT

**Date**: 06/16/05  
**Feature Crossed**: SCBL  
**Load Rating**: HS20  
**MP**: 20.18  
**Year Built**: 1999  
**Width**: 39’  
**Length**: 190’  
**No. of Spans**: 9  
**Cols/Bent**: varies  
**CT Br. No.**: 36C0127  
**Dist.**: 04  
**SCr**: Co.  
**Route**: Local  
**Suff. Rate**: 91.0  

### Attendees

- Anthony P. Notaro  
- Biggs Cardosa Associates, Inc.  
- David Chan  
- Biggs Cardosa Associates, Inc.  
- Jay Ybarra (Flagman)  
- Union Pacific Railroad

### Structure Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
</table>
| Superstructure (Span 1-5 & 7-9) | Superstruct type: 5 span closed deck timber stringer  
Structure depth: 7”x 13½” timber stringer (total 16) with steel pan supporting 5” of AC roadway  
Max. span: Unknown  
Min. span: Unknown  
Skew: 0°  
Drainage: Surface water flows off ends of structure.  
Condition: Good |
| Superstructure (Span 6) | Superstruct type: Timber Howe Truss (each side of roadway) with W36x deck stringers (under roadway) and timber stringers (under walkways)  
Top Chord: Single 21½”x 14”  
Bottom Chord: Double 10”x 14”  
Diagonals: Single 21½”x 14” (ends; primary)  
Double 8”x 6” (ends; secondary)  
Double 8”x 10” (first interior; primary)  
Single 6”x 9” (first interior; secondary)  
Single 8”x 9” (interior; each way)  
Verticals: Double 1½” rods with a single 8”x 6” fascia  
Structure depth: W36x with steel pan supporting 5” of AC roadway  
Max. span: Unknown  
Min. span: Unknown  
Skew: 0°  
Drainage: Surface water flows off ends of structure.  
Condition: Good |
| Abutments 1 & 10 | Cap Beam: 12”x 12” timber sill on an 18” deep by 12” wide concrete cap beam  
Posts: Nine 6”x 6” timber posts  
Grade Beam: Concrete grade beam  
Bracing: None  
Lagging: 2”x 8” |
<table>
<thead>
<tr>
<th>Structure Components</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bearings:</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Clear Height:</strong></td>
<td>9.5 ft. (Abut 1); 9.5 (Abut 10)</td>
</tr>
<tr>
<td><strong>Condition:</strong></td>
<td>Good</td>
</tr>
</tbody>
</table>

**Bents 2 thru 4, 8 & 9**

- **Cap Beam:** 13½” x 17” timber cap beam
- **Posts:** Three 12”x 14” and two 14”x 14” timber posts (1 vertical; 4 raked)
- **Grade Beam:** 14”x 14” timber grade beam on a 16” wide concrete grade beam
- **Bracing:** Two rows 4”x 8” trans. cross bracing
  - One row 4”x 8” trans. horiz. bracing
  - Two rows 6”x 8” long. diagonal bracing
  - One row 6”x 8” long. horiz. bracing
- **Bearsings:** None
- **Clear Height:** Varies; 13 ft. (Bent 2)
- **Condition:** Good

**Bents 5 & 6**

- **Cap Beam:** Triple timber cap beam (size unknown)
- **End Frame:** Three 12”x 12” raked timber posts
  - (Total 2 per Bent)
  - One 4”x 10” horiz. bracing (top)
  - One 4”x 10” horiz. bracing (middle)
  - One 8”x 12” horiz. bracing (bottom)
  - One 4”x 8” diagonal brace (bottom)
- **Interior Frame:** Two 12”x 12” raked timber posts
  - (Total 2 per Bent)
  - One 4”x 10” horiz. bracing (top)
  - One 4”x 10” horiz. bracing (middle)
  - One 4”x 10” horiz. bracing (bottom)
- **Grade Beam:** 12”x 12” timber grade beams on a concrete grade beam
- **Bearsings:** None
- **Clear Height:** Varies
- **Condition:** Good

**Railings (type, etc.)**

- **Type:** Timber and steel railing each side of walkways
- **Condition:** Good

**Walkways (type, etc.)**

- **On:** Timber plank walkway (each side of roadway)
- **Under:** Paved walkway under Span 1 & 5
- **Condition:** Good

**Hinges**

- None

**Restrainers/Soffit Opening Locations**

- None

**Bridge Deck Overlays**

- None

**Approaches**

- **Slabs:** None
- **Railings:** Thrie beam raining each side of roadway
- **Sidewalks:** Bridge walkways continue adjacent to road
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<thead>
<tr>
<th><strong>Structure Components</strong></th>
<th><strong>Description</strong></th>
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</thead>
<tbody>
<tr>
<td>Embankment Erosion</td>
<td>Minor</td>
</tr>
<tr>
<td>Slope Paving</td>
<td>None</td>
</tr>
<tr>
<td>Construction access to structural components</td>
<td>Open</td>
</tr>
<tr>
<td>Unique Features</td>
<td>None</td>
</tr>
<tr>
<td>Visible Damage/ Deterioration</td>
<td>Roadway: Pothole noted in roadway.</td>
</tr>
<tr>
<td>Existing facilities around structure (buildings, pumping plants, RR, etc.)</td>
<td>Right: Hotel, Left: Skateboard park</td>
</tr>
<tr>
<td>Visible Utilities</td>
<td>On: Street Lighting, Under: Track switch (Span 6), Adjacent: None visible</td>
</tr>
<tr>
<td>Roadway Conditions / Traffic Lanes</td>
<td>No. of Lanes: One 12 ft lane, Shoulders: 2 ft (left); 6 ft (right) bike lane, Median: None, Drainage: Flows of ends of bridge, Conditions: Fair, Overlays: None, Manholes: None</td>
</tr>
<tr>
<td>Potential R/W Conflicts</td>
<td>None identified.</td>
</tr>
<tr>
<td>Railroad</td>
<td>Santa Cruz Branch Line passes under Span 6</td>
</tr>
<tr>
<td>Water Crossings</td>
<td>None</td>
</tr>
<tr>
<td>Critical areas to be surveyed (measure where possible, e.g. column heights)</td>
<td>None identified.</td>
</tr>
</tbody>
</table>

**Overall Condition Rating:** 8

**Overall Channel Rating:** N/A
PRELIMINARY RECOMMENDATIONS

SUPPLEMENTAL INVESTIGATION:
• None identified.

CONTINUED FREIGHT SERVICE:
•
•
•

ATTACHMENTS:
• Field Photos
• As-Built Plans
• Maintenance Reports
• Additional Data
Abutment 1

Global Superstructure

Timber Truss of Superstructure