# Load and Resistance Factor Rating (LRFR) Summary for Prestressed Concrete Girders

## Strength I Limit State

### Moment

<table>
<thead>
<tr>
<th>Girder Location</th>
<th>Span</th>
<th>Service Factor</th>
<th>Shear Location</th>
<th>Rating Factor</th>
<th>Shear Location</th>
<th>Rating Factor</th>
<th>Shear Location</th>
<th>Rating Factor</th>
<th>Shear Location</th>
<th>Rating Factor</th>
<th>Shear Location</th>
<th>Rating Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bent 1</td>
<td>1</td>
<td>1.25</td>
<td>Left End</td>
<td>0.80</td>
<td>Left End</td>
<td>0.80</td>
<td>Left End</td>
<td>0.80</td>
<td>Left End</td>
<td>0.80</td>
<td>Left End</td>
<td>0.80</td>
</tr>
<tr>
<td>Bent 2</td>
<td>2</td>
<td>1.25</td>
<td>Left End</td>
<td>0.80</td>
<td>Left End</td>
<td>0.80</td>
<td>Left End</td>
<td>0.80</td>
<td>Left End</td>
<td>0.80</td>
<td>Left End</td>
<td>0.80</td>
</tr>
<tr>
<td>Bent 3</td>
<td>3</td>
<td>1.25</td>
<td>Left End</td>
<td>0.80</td>
<td>Left End</td>
<td>0.80</td>
<td>Left End</td>
<td>0.80</td>
<td>Left End</td>
<td>0.80</td>
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</tr>
</tbody>
</table>

## Service III Limit State

### Shear

<table>
<thead>
<tr>
<th>Girder Location</th>
<th>Span</th>
<th>Service Factor</th>
<th>Shear Location</th>
<th>Rating Factor</th>
<th>Shear Location</th>
<th>Rating Factor</th>
<th>Shear Location</th>
<th>Rating Factor</th>
<th>Shear Location</th>
<th>Rating Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bent 1</td>
<td>1</td>
<td>1.25</td>
<td>Left End</td>
<td>0.80</td>
<td>Left End</td>
<td>0.80</td>
<td>Left End</td>
<td>0.80</td>
<td>Left End</td>
<td>0.80</td>
</tr>
<tr>
<td>Bent 2</td>
<td>2</td>
<td>1.25</td>
<td>Left End</td>
<td>0.80</td>
<td>Left End</td>
<td>0.80</td>
<td>Left End</td>
<td>0.80</td>
<td>Left End</td>
<td>0.80</td>
</tr>
<tr>
<td>Bent 3</td>
<td>3</td>
<td>1.25</td>
<td>Left End</td>
<td>0.80</td>
<td>Left End</td>
<td>0.80</td>
<td>Left End</td>
<td>0.80</td>
<td>Left End</td>
<td>0.80</td>
</tr>
</tbody>
</table>

### Notes:
- Minimum rating factors are based on the Strength I and Service III Limit States.
- Allowable stresses for Service III Limit State are as prescribed for Design.

### Comments:
1. 
2. 
3. 
4. 

### Controlling Load Rating
- Design Load Rating HL-93
- Design Load Rating HS-20
- Legal Load Rating ** See Chart for Vehicle Type**

### Girder Location
- EI - Interior Girder
- EL - Exterior Left Girder
- ER - Exterior Right Girder

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**Load Factors:**

- Strength I
- Service III

**Load Factors:**

<table>
<thead>
<tr>
<th>Load Factor</th>
<th>Strength I</th>
<th>Service III</th>
</tr>
</thead>
<tbody>
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<td>HL-93</td>
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</tr>
<tr>
<td>HS-20</td>
<td>1.00</td>
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</tr>
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**Total Sheets:** 1

**Sheet No.:** LRFR

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**Project No.:**

**County:**

**Station:**

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**Department of Transportation:**

**Standard LRFR Summary for Prestressed Concrete Girders (Non-Interstate Traffic):**

**Revision:**

**STD. NO.:** LRFR