1. Fabricator shall apply a bond breaker to this region preceding weld (all lines will be hooked up).

2. Outer strands tensioned to 2.02 kips/strand and inner strands to 8 kips/strand. Placed symmetrical about the girder. May be moved laterally in pairs.

3. 3/8" Reinforcement Support Strands (Required) (Typ.) (12)

4. Cut top 3 rows of strands with a 12" projection and bend in shop (do not remaining top strands within 1' of end of girder) (Typ.)

5. Cut & Shop Bend with 4" projection (Cut strands within 1' of girder end) (Typ.)

6. END BENT

7. INTERMEDIATE BENT

8. Strands at girder ends

9. GIRDER

10. STRAND ARRANGEMENT

11. \( \text{G} \) indicates cut & shop bend with 2" projection

12. \( \text{H} \) indicates cut & shop bend with 3" projection

13. END VIEW

14. BEARING PLATE

15. SIDE VIEW

16. DIAGRAMS

17. DIMENSIONS

18. DESCRIPTION

19. MATERIALS

20. EXCLUDED AREAS

21. ALTERNATE BARS

22. GENERAL NOTES

23. DETAILS & DIAGRAMS

24. SHEET NO. AND SHEET

25. LUEN-GIRDERS - SPANS (X-X) AND (X-X)

26. Note: This drawing is not to scale. Follow dimensions.

27. Sheet No. 41
PS1_06 NU_WWR  Guidance & Alternate Details

Standard Drawing Guidance (do not show on plans)
1. Choose one of the 4 details for the top flange blockout.
2. Follow the provided detail guidance for details including top flange blockout.
3. The left advanced details shown may be used for right advanced bridges. May remove design notes if left advanced.
4. Rotate 180° for right ext. skew if present.
5. Revise bent references as required. Specify the bent number if blockout varies by bent.
6. The skew angle value need not be shown for tangent bridges.
7. The left advanced details shown may be used for right advanced bridges. May remove design notes if left advanced.

FLANGE BLOCKOUT DATA

<table>
<thead>
<tr>
<th>Skew</th>
<th>X Eq</th>
<th>X Spa</th>
<th>Bar Lengths</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;14° to 21°</td>
<td>4</td>
<td>3</td>
<td>G5 bar = 16.25 cos^2(\text{skew})</td>
</tr>
<tr>
<td>&gt;21° to 27°</td>
<td>4</td>
<td>3</td>
<td>G5 bar = 32.5 cos^2(\text{skew})</td>
</tr>
<tr>
<td>&gt;27° to 33°</td>
<td>7</td>
<td>6</td>
<td>For skew &gt; 7° to 14°, G6 bar = G5 + 46.25</td>
</tr>
<tr>
<td>&gt;33° to 42°</td>
<td>9</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>&gt;42° to 46°</td>
<td>10</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>&gt;56° to 57°</td>
<td>11</td>
<td>10</td>
<td>Report length of G6 bars as &quot;Varies&quot;</td>
</tr>
<tr>
<td>&gt;57° to 60°</td>
<td>13</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

NO SKEW

LEFT EXTERIOR GIRDER AT INTERMEDIATE BENT
Rotate 180° for right ext.

INTERIOR GIRDER AT ALL BENTS & EXTERIOR GIRDER AT END BENT
TOP FLANGE BLOCKOUT

Mirror for right advanced.

>0° TO 7° LA SKEW

>7° TO 14° LA SKEW

>14° TO 60° LA SKEW

The maximum strand arrangement is shown for details including top flange blockout. Remove unnecessary strands from the four details where indicated. Only detail needs to be used if the structure is over water. For all other crossings remove detail.

Indicate 10 strands as shown for NU 35, 43 & 53. Indicate two more strands for NU 63, 70 and 78.

Strands are not typically debonded for NU girders, but if required by design, add symbols to End of Girder strand arrangement detail and add the appropriate notes (Note H21.44, and as shown below).

Indicates debonded for x'-0" from end of girder

Indicates debonded for x'-0" from end of girder

7° Maximum and 1° Minimum.

By design. Typically 30.98 kips per 1/2", strand, rounded to nearest whole kip.

Adjust minimum dimension if required by design.

Use with end spans when both interior & exterior girders are detailed on same sheet and the 2'-4" crossing will not fit in the exterior diaphragm portion. Remove when not required.

Substitute these values into drawing.

<table>
<thead>
<tr>
<th>NU</th>
<th>a</th>
<th>b</th>
<th>c</th>
</tr>
</thead>
<tbody>
<tr>
<td>43</td>
<td>3'9&quot;</td>
<td>6&quot;</td>
<td>2'3&quot;</td>
</tr>
<tr>
<td>47</td>
<td>3'9&quot;</td>
<td>6&quot;</td>
<td>2'3&quot;</td>
</tr>
<tr>
<td>57</td>
<td>4'0¼&quot;</td>
<td>9&quot;</td>
<td>3'0&quot;</td>
</tr>
<tr>
<td>63</td>
<td>5'2&quot;</td>
<td>9&quot;</td>
<td>4'2&quot;</td>
</tr>
<tr>
<td>67</td>
<td>5'3&quot;</td>
<td>9&quot;</td>
<td>4'3&quot;</td>
</tr>
<tr>
<td>70</td>
<td>4'8&quot;</td>
<td>10&quot;</td>
<td>4'7&quot;</td>
</tr>
<tr>
<td>78</td>
<td>5'6&quot;</td>
<td>10.5&quot;</td>
<td>5'7&quot;</td>
</tr>
</tbody>
</table>

Remove note for NU 63, 70 and 78.

The overall height of the WWR5 shall not be increased for girder steps. Reduce this dimension by the accumulated girder step height.