**Illinois Department of Transportation**

**PASSED**

**ENGINEER OF POLICY AND PROCEDURES**

**APPROVED**

**ISSUED** 1-1-97

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**Concrete pad**

36'-0'' (10.8 m)

**Concrete pad**

10'-0'' (3.0 m)

**End of shoulder**

100'-0'' (30 m)

**End of stabilized subbase**

12 (300) Improved subgrade

**Subbase (HMA required)**

4 (100) Stabilized subbase

**Joint details not shown.**

See Standards 420001 and 420401 for further reinforcement.

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**Pavement reinforcement**

**Transverse construction joint**

**Transverse terminal joint**

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**GP NOTES**

Sealant components for the wide flange beam terminal joint shall be as follows:

- The sealant shall be Dow Corning 888 Silicon Highway Joint Sealant. The sealant shall be used on the metal only, and shall be Dow Corning 1200. At the Contractor's option, the joint may be sealed as shown in the optional groove detail.

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- See Standard 420001 for details of pavement reinforcement.

- See Standards 420001 and 420401 for joint details not shown.

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**GENERAL NOTES**

- **Sealant components for the wide flange beam terminal joint** shall be as follows:
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  - See Standard 420001 for details of pavement reinforcement.
  - See Standards 420001 and 420401 for joint details not shown.

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**DATE**

1-1-14  
1-1-11

**REVISIONS**

1-1-14  
1-1-11

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**36' (10.8 m)**

CRC PAVEMENT

WITH WIDE FLANGE BEAM TERMINAL JOINT

(Sheet 1 of 2)

STANDARD 421106-09
### Wide Flange Beam Terminal Joint

**Materials Required for One Wide Flange Beam Terminal Joint Complete**

<table>
<thead>
<tr>
<th>Bar No.</th>
<th>Size</th>
<th>Length</th>
<th>Shape</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>36 No. 4</td>
<td>10'-0&quot;</td>
<td>W14X82</td>
</tr>
<tr>
<td>B</td>
<td>29 No. 5</td>
<td>35'-8&quot;</td>
<td>W16X100</td>
</tr>
<tr>
<td>C</td>
<td>72 No. 6</td>
<td>17'-0&quot;</td>
<td>W14X82</td>
</tr>
</tbody>
</table>

**Concrete**
- 11.1 (8.1) cu. yds. (m³)

**Reinforcement Bars**
- 3710 (1655) lbs. (kg) W16 (W410)
- 3040 (1360) lbs. (kg) W14 (W360)

**Stiffener Plates and Studs**
- Weight includes beam, end plates, stiffener plates and studs.

**Pavement Reinforcement**
- 523 (235) lbs. (kg)

**Structural Steel**
- 5040 (1860) lbs. (kg)
- 3710 (1655) lbs. (kg)

### Illustrated Details

- **View of Groove at Edge of Pavement**
- **Optional Adjustable Chair**
- **Takeoff Plan**

### Technical Specifications

- **Pavement Thickness**
  - Less than 10'-0" (3.0 m)
  - Greater than 10'-0" (3.0 m)

- **Beam Size**
  - W14 (W360)
  - W16 (W410)

- **Concrete**
  - 11.1 (8.1) cu. yds. (m³)

- **Reinforcement Bars**
  - 3710 (1655) lbs. (kg) W16 (W410)
  - 3040 (1360) lbs. (kg) W14 (W360)

- **Structural Steel**
  - 5040 (1860) lbs. (kg)
  - 3710 (1655) lbs. (kg)

**Notes:**
- Use same reinforcement size and spacing as in continuous pavement.
- Bend top flange of beam to attain the required pavement cross slope.
- Steel beam and concrete sleeper slab shall match pavement slope.
- Use same reinforcement size and spacing as in continuous pavement.