NOTES:
1. For joint seal dimensions see Sheet 2.
2. For slabs poured simultaneously, tie bars may be inserted in the plastic concrete by means approved by the Engineer.
3. For Longitudinal Joints:
   A. Tie bars are deformed #4 or #5 reinforcing steel bars meeting the requirements of Specification 931.
   B. Provide a standard load transfer tied joint with #4 bars 29" in length at 24" spacing or #3 bars 30" in length at 30" spacing.
4. Transverse joints are to be spaced at a maximum of 15'. Dowels are required at all transverse joints unless otherwise noted in the plans.
5. Expansion joints to be placed at street intersections and other locations as indicated in the Plans. For bridge expansion joints, see Index 370-001.
6. Punch clean holes in preformed joint filler greater than bar diameter.
7. Coat and lubricate plain steel dowel bars in accordance with Specification 350.
8. Sheet metal bottom strips in accordance with Specification 931.

FOR BRIDGE EXPANSION JOINTS, SEE INDEX 370-001.

Dowel Bar Layout

Dowel Bars Caps

Metal

Plastic

Dowel Bar Layout

FOR BRIDGE EXPANSION JOINTS, SEE INDEX 370-001.

METAL

PLASTIC

Dowel Bars Caps

Metal

Plastic

Bend Up Against End of Pavement After Forms Are Removed

Plain Steel Dowel Bars

Sheet Metal Bottom Strip For Expansion Joints Only (See Note 8)

Puncture And Push Down ½" On Each Side

Preformed Joint Filler (See Note 6)

Plain Steel Dowel Bar (See Note 6)

Metal Or Plastic Cap

Approved Dowel Support And Spacer

Parting Strip (½" Max. Thick)

(See Note 8)

Still Tie Bar (See Note 3)

Approved Tie Bar Support

Break

3" To 9"

1/2"

1/2"

1/2"

1/2"
**CONCRETE-CONCRETE JOINTS**

**FOR NEW PROJECTS**

PREFORMED ELASTOMERIC COMPRESSION SEAL

**FOR NEW AND REHABILITATION PROJECTS**

BACKER ROD BOND BREAKER

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**CONCRETE-ASPHALT SHOULDER JOINTS**

**JOINT SEAL DIMENSIONS**

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**DISCLAIMER**

Unless otherwise indicated on the plans the joint width for new construction will be \( w \) for construction joints, \( \frac{w}{4} \) for all other joints.

For rehabilitation projects the joint width will be shown on the plans or established by the engineer based on field conditions.

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**BACKER ROD BOND BREAKER**

**CONCRETE-CONCRETE JOINTS**

<table>
<thead>
<tr>
<th>JOINT WIDTH</th>
<th>SEALANT BEAD THICKNESS</th>
<th>BACKER ROD DIAM.</th>
<th>MINIMUM JOINT DEPTH</th>
<th>BACKER ROD PLACEMENT DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>( \frac{w}{4} )</td>
<td>( \frac{w}{8} )</td>
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<td>( \frac{w}{16} )</td>
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</tbody>
</table>

unless otherwise specified in the plans.

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**Tape Bond Breaker**

**Concrete Pavement Joints**

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**Revision Description:**

FY 2019-20

STANDARD PLANS

INDEX 350-001

2 of 4
**Notes:**

1. Longitudinal joints will not be required for single lane pavement 14' or less in width. For entrance and exit ramp joint details, see Sheet 4.

2. Arrangement of longitudinal joints are to be as directed by the Engineer.

3. All manholes, meter boxes and other projections into the pavement shall be boxed-in with \( \frac{1}{2} \)" preformed expansion joint material.

**Expansion Assembly**

Note: Proprietary contraction and expansion assemblies may be used. Products shall be introduced to the State Construction Office in accordance with section (C) of the Product Evaluation Procedure.
**REVISION DESCRIPTION:**

**LAST REVISION:** 01/01/18

**STANDARD PLANS**

**CONCRETE PAVEMENT JOINTS**

**INDEX:** 350-001

**SHEET:** 4 of 4

**FY 2019-20**

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**PCC Gore Pavt.**

**Longitudinal Joint**

**Contraction Joint (Typ.)**

**2-THRU LANES WITH SINGLE LANE ENTRANCE RAMP**

**CONCRETE PAVEMENT JOINTS**

**Transition From 13' to 12' Wide Over 3 Slabs**

**Entrance Ramp with Added Lane**

**2-THRU LANES WITH SINGLE LANE EXIT RAMP**

**3-THRU LANES WITH AUXILIARY LANE AND 2-LANE EXIT RAMP**

**Joint Layout at Entrance and Exit Ramp Terminals**

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**Note:**

Transverse joint spacing should not exceed 15-ft or twenty-four times the slab thickness, whichever is less. If a lane exceeds 15-ft width, such as single lane ramps and weigh stations, longitudinal joint to be constructed in centerline of lane.