CONCRETE PAVEMENT JOINTS

METAL OR PLASTIC CAPS FOR DOWEL BARS

Note: Expansion joints to be placed on approaches to bridges, at street intersections, and other locations indicated in detail plans.

TRANSVERSE EXPANSION JOINT

Plain Steel Dowel Bar (Coat and Lubricate in Accordance With Section 350 of The Standard Specifications)

Appointed Dowel Support and Spacer

Preformed Joint Filler (Punch Clean Holes Greater Than Bar Diameter)

Plain Steel Dowel Bar (Coat and Lubricate in Accordance With Section 300 of The Standard Specifications)

Bend Up Against End of Pavement After Forms Are Removed

TRANSVERSE CONTRACTION JOINT, VIBRO CAST METHOD

TRANSVERSE CONTRACTION JOINT, SAWED METHOD

Note: Tie bar spacing shall not exceed 24" at这些 joints.

LONGITUDINAL LANE-TIE JOINT

Note: For joint seal dimensions see Sheet 2.

LONGITUDINAL JOINTS

Note: Tie bars are deformed #4 or #5 reinforcing steel bars meeting the requirements of Section 931 of the Standard Specifications.

When the distance to the closest free edge exceeds 24', provide a standard load transfer tied joint with #4 bars at 24" or #5 bars at 38" spacing.

TRANSVERSE JOINTS ARE TO BE SPACED AT A MAXIMUM OF 15'. DOWELS ARE REQUIRED AT ALL TRANSVERSE JOINTS UNLESS OTHERWISE NOTED IN PLANS.

DOWEL BAR LAYOUT

Plain Steel Dowel Bars

Sheet Metal Bottom Strip For Expansion Joints Only

Notes:

- For Joint seal dimensions see Sheet 2.
- Pavement Thickness
- Diameter
- # Bars Length 25" Length 30"
- # Bars Length 25" Length 30"
- # Bars Length 25" Length 30"
Joint Width
Joint Depth
Sealant Bead Thickness
Backer Rod Placement Depth

Saw Cut Or Formed Joint
Existing Joint Or Crack

Joint Sealant Material To Be As Specified In The Plans

Note: Dimension w will be shown in the plans or established by the Engineer based on field conditions. Dimension d will be constructed so that the shape factor \( \frac{d}{w} \) has a maximum value of 2.0 and a minimum value of 1.0.

For New Projects

**Tape Bond Breaker**
For New and Rehabilitation Projects

**Preformed Elastomeric Compression Seal**

For New and Rehabilitation Projects;
Either Tape or Backer Rod Bond Breaker Required;
Shoulder Must Be Repaired If Proper Joint Shape Cannot Be Attained.

**Concrete-Asphalt Shoulder Joints**

**Concrete-Concrete Joints**

\[ d = w - \frac{1}{4} \quad \text{Unless Specified Otherwise In The Plans} \]

**Concrete Pavement**

**Backer Rod Bond Breaker**

**Concrete Pavement**

**Tape Bond Breaker**

**Conc. Pavt. Thick.**

(For Construction Joints, \( \frac{d}{w} \) for all other Joints)

For Rehabilitation Projects:

**Tape Bond Breaker**

**Backer Rod Bond Breaker**

**PERFORMED ELASTOMERIC COMPRESSION SEAL**

**CONCRETE-CONCRETE JOINTS**

Min.          Max.

- Saw Cut Joint
- Joint Sealed Material To Be As Specified In The Plans
- Joint Sealant Material To Be As Specified In The Plans
- Backer Rod Bond Breaker

**Concrete Pavement**

**8/16" Preformed Elastomeric Compression Seal**

- Joint Sealant Material To Be As Specified In The Plans
- Joint Sealant Material To Be As Specified In The Plans
- Backer Rod Bond Breaker

**CONCRETE-PAVEMENT JOINTS**
**NOTES**

1. Longitudinal joints will not be required for single lane pavement 14' or less in width.
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 
   1/2” preformed expansion joint material.

**JOINT ARRANGEMENT**
2-THRU LAKES WITH SINGLE LANE ENTRANCE RAMP

3'-MIN.

3'-MIN.

3'-MIN.

3'-MIN.

3'-MIN.

3'-MIN.

3'-MIN.

3'-MIN.

3'-MIN.

3'-MIN.

3'-MIN.

3'-MIN.

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

JOINT LAYOUT AT ENTRANCE AND EXIT RAMP TERMINALS

LONGITUDINAL JOINT

PCC GORE PAVT.

CONTRACTION JOINT (Typ.)

RAMP PAVT.

MAINLINE PAVT.

ENTRANCE RAMP WITH ADDED LANE

ENTRANCE TAPER WITH AUXILIARY LANE

EXIT TAPER WITH AUXILIARY LANE

Note: On single lane ramps, longitudinal joint to be constructed along centerline of ramp.

CONCRETE PAVEMENT JOINTS