

## TYPICAL LAYOUT

**CD-405-1.1**

EXPANSION JOINTS AT BRIDGES	
DISTANCE BETWEEN BRIDGES *	NUMBER OF EXPANSION JOINTS
TO 500'	1
500' - 704'	2
704' - 908'	3
908' - 1111'	4
1111' - 1315'	5
OVER 1315'	6

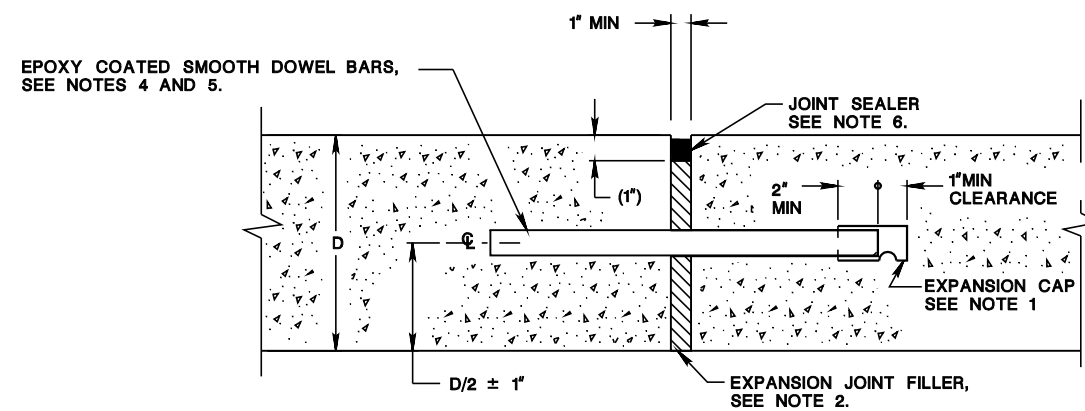
\* LENGTH OF PAVEMENT BETWEEN BRIDGES

- NOTES:**

1. PLACE A CLOSED-END EXPANSION CAP OVER THE LUBRICATED END OF ALL DOWEL BARS USED IN TRANSVERSE EXPANSION JOINTS AND PROVIDE A MINIMUM 1" CLEARANCE POCKET ASSURED BY MEANS OF A POSITIVE SPACING DEVICE.
2. CUT EXPANSION JOINT FILLER MATERIAL TO CONFORM TO THE CROSS-SECTION OF THE PAVEMENT AND FURNISH IN STRIPS EQUAL TO THE WIDTH OF THE PAVEMENT SLAB. MAKE THE TOP SURFACE SMOOTH AND HAVE HOLES PUNCHED FOR THE DOWEL BARS PROVIDE A SNUG FIT WITHOUT LOSS IN THICKNESS OF THE MATERIAL.
3. CONSTRUCT ALL TRANSVERSE JOINTS PERPENDICULAR TO THE CENTERLINE.
4. USE MINIMUM  $1\frac{1}{4}" \phi$  x 18" LONG EPOXY COATED SMOOTH DOWEL BARS FOR PAVEMENT DEPTHS 10" OR LESS, AND MINIMUM  $1\frac{1}{2}" \phi$  X 18" LONG DOWEL BARS FOR PAVEMENT DEPTHS GREATER THAN 10". APPROVED ALTERNATE DOWEL BARS HAVING EQUIVALENT PROPERTIES TO CONVENTIONAL ROUND DOWEL REINFORCEMENT STEEL MAY BE PROPOSED FOR USE.
5. PLACE EPOXY COATED SMOOTH DOWEL BARS PARALLEL TO THE CENTERLINE AND SURFACE OF THE SLAB.
6. MAKE THE TOP OF THE JOINT SEALING MATERIAL  $\frac{1}{4}" \pm \frac{1}{8}"$  BELOW THE SURFACE OF THE PAVEMENT.
7. THE INITIAL SAW CUT RELIEF JOINT IS NOT REQUIRED FOR CONSTRUCTION JOINTS.
8. WHEN COLD-POURED JOINT SEALER IS SELECTED FOR USE IN TRANSVERSE JOINTS, USE THE SAME JOINT SEALER IN THE LONGITUDINAL JOINTS.

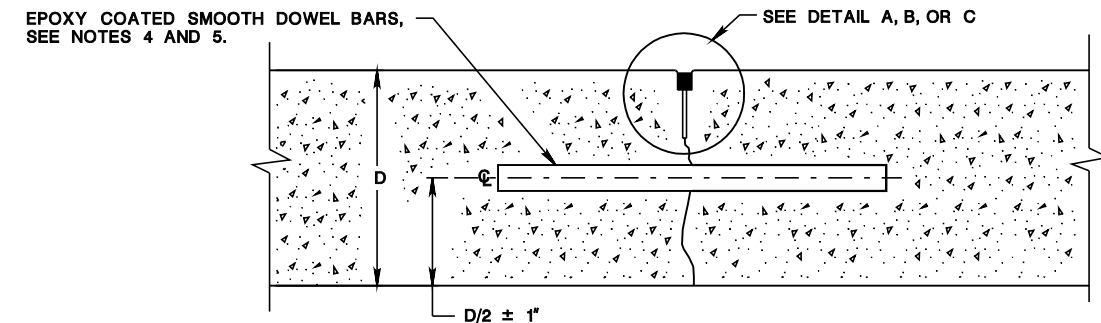
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CD-405-1.3



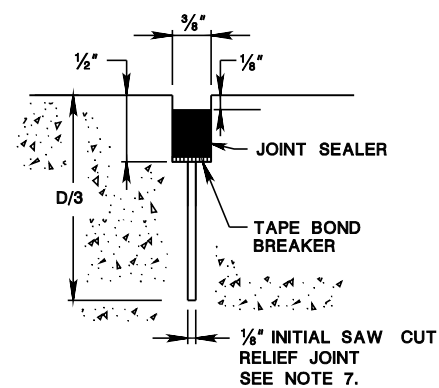
## TRANSVERSE EXPANSION JOINT

**CD-405-1.4**



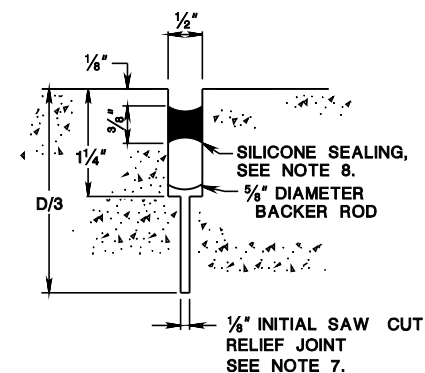
## TRANSVERSE CONTRACTION JOINT

CD-405-1.5



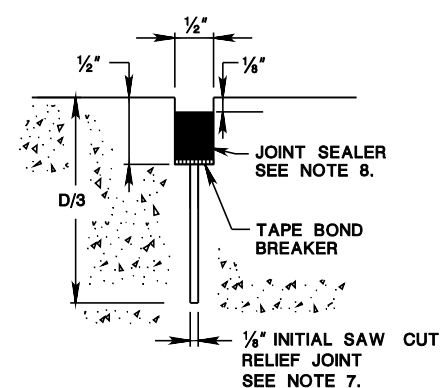
## DETAIL A HOT-POURED JOINT SEALER

**CD-405-1.6**



**DETAIL B**  
**COLD-POURED JOINT SEALER**  
**WITH BACKER ROD**

**CD-405-1.7**



### DETAIL C COLD-POURED JOINT SEALER WITHOUT BACKER ROD

**CD-405-1.8**

## CONCRETE PAVEMENT TRANSVERSE JOINTS

**N.T.S.**

CD-405-1

NEW JERSEY DEPARTMENT OF TRANSPORTATION

## CONSTRUCTION DETAILS