

**NOTES**

**GENERAL:** NOTES AND DETAILS SHOWN ON THIS DRAWING SHALL BE CONSIDERED IN CONJUNCTION WITH AND SUPPLEMENTAL TO THE PERTINENT SPECIFICATIONS FOR PORTLAND CEMENT CONCRETE PAVEMENT AND BASES, AND RELATED INCIDENTALS.

**JOINT COMPONENTS:** THIS DRAWING IS INTENDED FOR USE WITH A UNIFORM DEPTH PAVEMENT. WHEN THE PROJECT INVOLVES THE PLACING OF VARIABLE DEPTH PAVEMENT, THE JOINT COMPONENTS SHALL BE HELD IN PLACE IN ACCORDANCE WITH THE METHOD SHOWN IN THE PLANS OR AS APPROVED BY THE ENGINEER.

**CONTRACTION JOINTS:** CONTRACTION JOINTS IN ITEM 305 - CONCRETE BASE SHALL BE DOWELLED WHERE THEY ARE LOCATED IN MAINLINE PAVEMENT, RAMPS, ACCELERATION/DECELERATION LANES, OR COLLECTOR/DISTRIBUTOR LANES, OR IN SHOULDERS WITHIN 500' OF A PRESSURE RELIEF JOINT.

CONTRACTION JOINTS IN ITEM 305 - CONCRETE BASE SHALL NOT BE DOWELLED IN ALLEYS, PRIVATE DRIVES, OR COMMERCIAL DRIVES.

CONTRACTION JOINTS OF THE TYPE SPECIFIED SHALL BE SPACED IN ACCORDANCE WITH THE CONTRACTION JOINT SPACING TABLE.

<b>CONTRACTION JOINT SPACING</b>	
<b>TYPES OF PAVEMENT OR BASE</b>	<b>MAXIMUM SPACING BETWEEN JOINTS</b>
ITEM 451 - REINFORCED CONCRETE PAVEMENT	21'
ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT	15'
ITEM 305 - CONCRETE BASE	15'

**CONSTRUCTION JOINTS:** IN ITEM 305 - CONCRETE BASE, A CONSTRUCTION JOINT SHALL NOT BE LOCATED CLOSER THAN 6' TO ANOTHER PARALLEL JOINT.

KERF AND SEAL CONFORMING IN ALL ASPECT TO DETAILS SHOWN FOR CONTRACTION JOINTS SHALL BE PROVIDED AT EACH CONSTRUCTION JOINT IN CONCRETE PAVEMENT AND BASE.

**JOINT DETAILS FOR  
PORTLAND CEMENT  
CONCRETE PAVING**

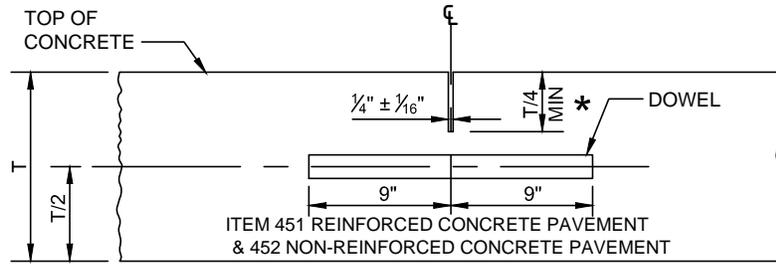
CITY OF COLUMBUS, OHIO  
DEPARTMENT OF PUBLIC SERVICE  
DIVISION OF DESIGN AND CONSTRUCTION

  
CITY ENGINEER

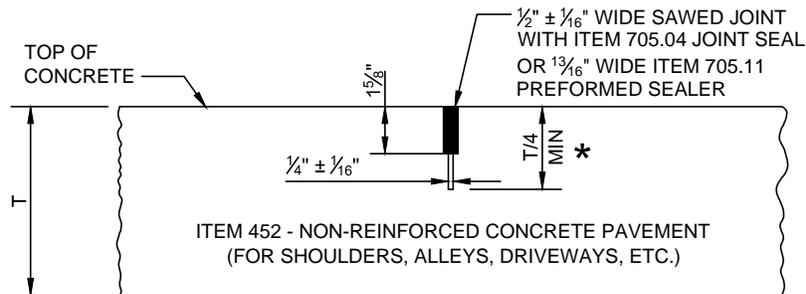
STD DWG  
**2170**

6/1/13

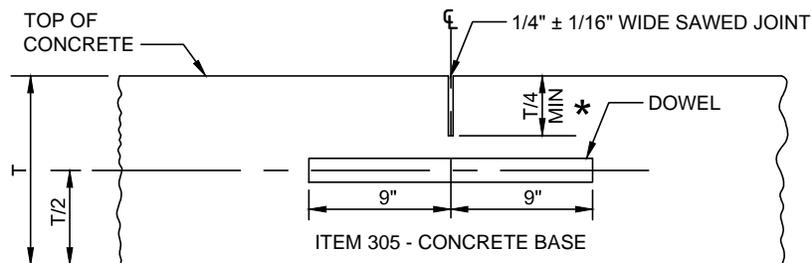
SHT 1 OF 6



**ITEM 451 & 452 W/UNSEALED JOINTS**  
 (DOWEL BAR OMITTED FOR SHOULDERS, ALLEYS, DRIVEWAYS, ETC.)



**ITEM 452 W/SEALED JOINTS**



**ITEM 305**  
 (DOWEL BAR OMITTED FOR SHOULDERS, ALLEYS, DRIVEWAYS, ETC.)

\* WHERE  $T > 10"$ , THE SAWCUT DEPTH SHALL BE  $T/3$ .

**CONTRACTION JOINT SECTIONS**

**JOINT DETAILS FOR  
 PORTLAND CEMENT  
 CONCRETE PAVING**

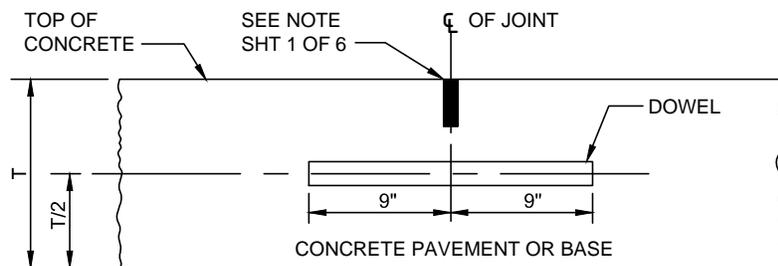
CITY OF COLUMBUS, OHIO  
 DEPARTMENT OF PUBLIC SERVICE  
 DIVISION OF DESIGN AND CONSTRUCTION

STD DWG

**2170**

6/1/13

SHT 2 OF 6



**SECTION THROUGH CONSTRUCTION JOINT**

**CONSTRUCTION JOINT**

**JOINT DETAILS FOR  
PORTLAND CEMENT  
CONCRETE PAVING**

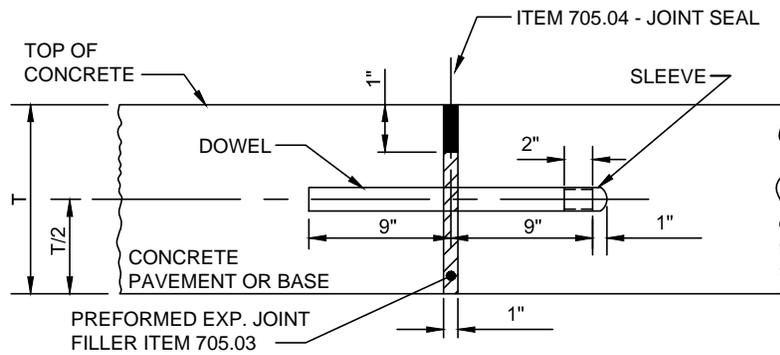
CITY OF COLUMBUS, OHIO  
DEPARTMENT OF PUBLIC SERVICE  
DIVISION OF DESIGN AND CONSTRUCTION

STD DWG

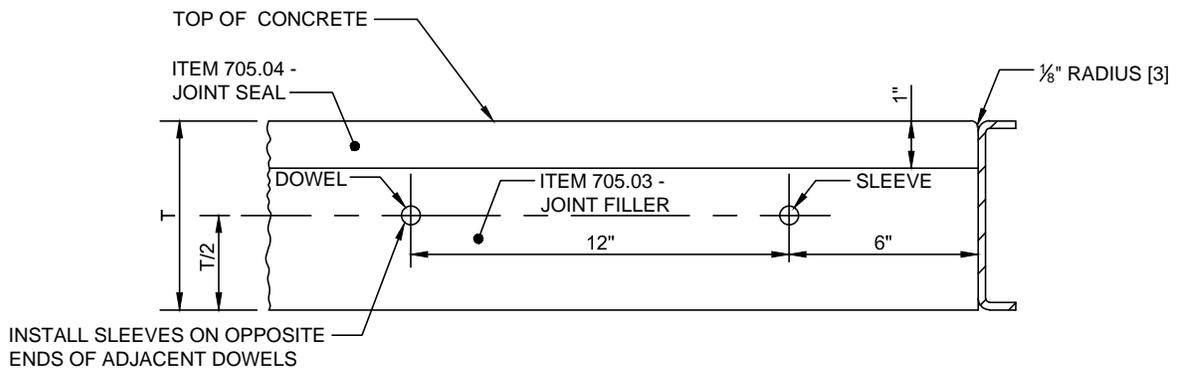
**2170**

6/1/13

SHT 3 OF 6



**SECTION THROUGH EXPANSION JOINT**



**SIDE ELEVATION OF EXPANSION JOINT**  
(THROUGH CONCRETE PAVEMENT OR BASE)

**EXPANSION JOINTS**

**JOINT DETAILS FOR  
PORTLAND CEMENT  
CONCRETE PAVING**

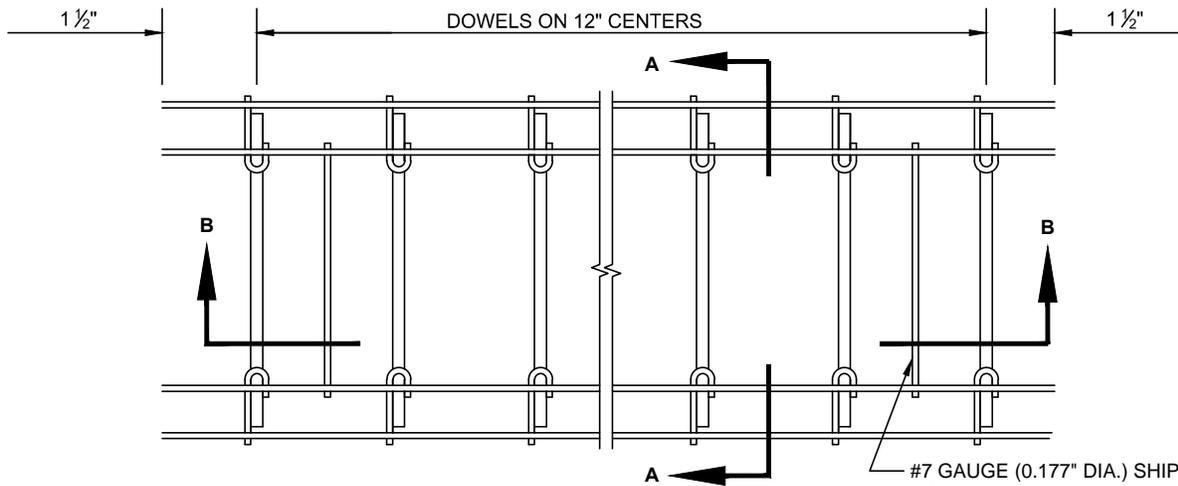
CITY OF COLUMBUS, OHIO  
DEPARTMENT OF PUBLIC SERVICE  
DIVISION OF DESIGN AND CONSTRUCTION

STD DWG

**2170**

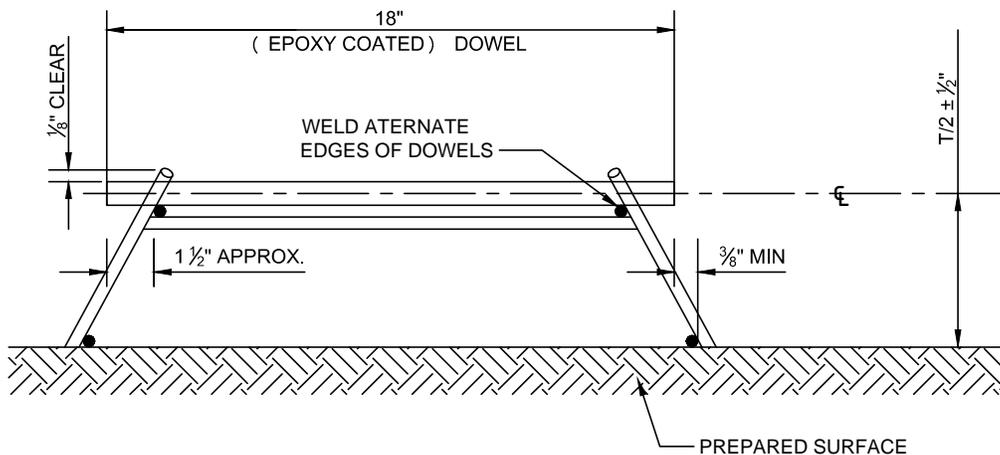
6/1/13

SHT 4 OF 6

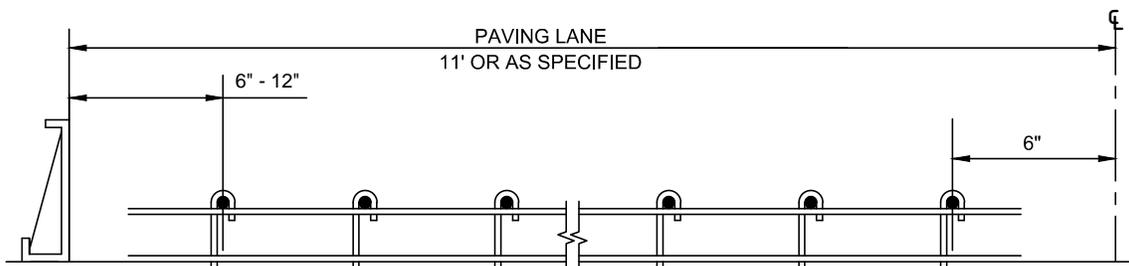


**PLAN VIEW**

#7 GAUGE (0.177" DIA.) SHIPPING AND SPACER WIRES. REMOVE SPACER WIRES AFTER STAKING ASSEMBLY TO GRADE.



**SECTION A-A**



**SECTION B-B**

**DOWEL BASKET ASSEMBLY**  
**JOINT DETAILS FOR**  
**PORTLAND CEMENT**  
**CONCRETE PAVING**

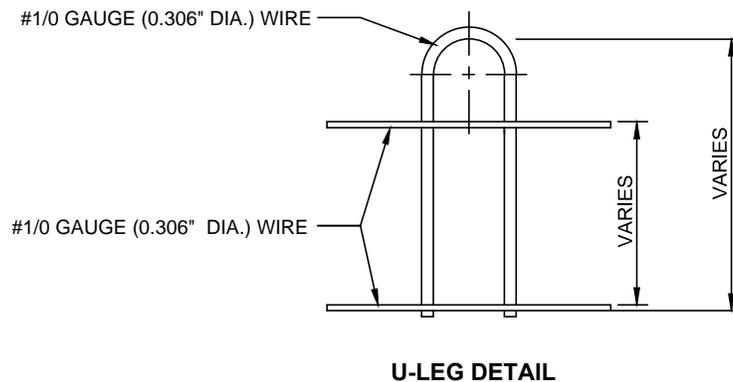
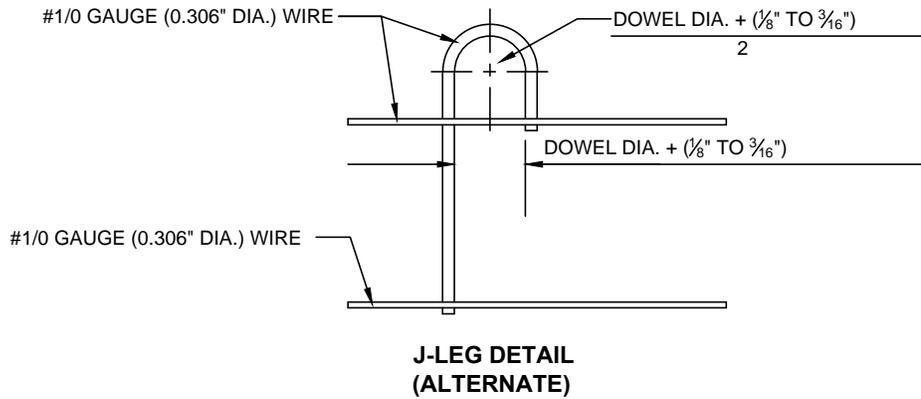
CITY OF COLUMBUS, OHIO  
 DEPARTMENT OF PUBLIC SERVICE  
 DIVISION OF DESIGN AND CONSTRUCTION

STD DWG

**2170**

6/1/13

SHT 5 OF 6



REFER TO CMSC 451.08 B AND 709.13 FOR DOWEL SPECIFICATIONS.

WIRE SIZES SHOWN ARE MINIMUM REQUIRED.

ALL WIRE INTERSECTIONS ARE TO BE WELDED.

STAKES TYPICALLY APPLIED AT WORKING ENDS OF DOWEL.

**TOLERANCES:**

- A)  $\pm \frac{1}{4}$ " PER FOOT UNLESS OTHERWISE SPECIFIED.
- B) CENTERLINE OF INDIVIDUAL DOWELS SHALL BE PARALLEL TO EACH OTHER, THE SURFACE AND THE CENTERLINE OF THE SLAB.
- C) ON CENTERS SHOULD BE  $\pm \frac{1}{2}$ ".
- D) DOWELS SHOULD BE PLACED AT MID-DEPTH OF SLAB.

J-LEG OR U-LEG TO BE INSTALLED ON INSIDE OR OUTSIDE OF SUBFRAME.

**DOWEL BASKET ASSEMBLY**

**JOINT DETAILS FOR  
PORTLAND CEMENT  
CONCRETE PAVING**

CITY OF COLUMBUS, OHIO  
DEPARTMENT OF PUBLIC SERVICE  
DIVISION OF DESIGN AND CONSTRUCTION

STD DWG

**2170**

6/1/13

SHT 6 OF 6