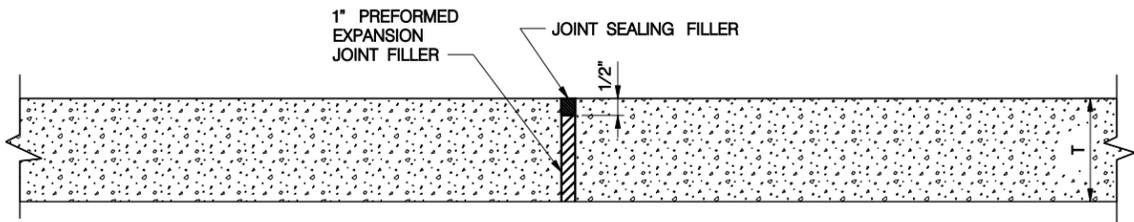
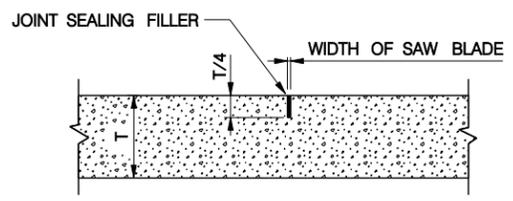


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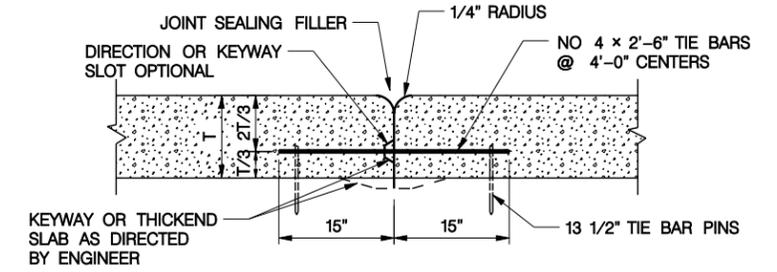


**EXPANSION JOINT**  
 TO BE USED AT THE END OF RETURN ON THE NON THROUGH LEG OF A T-INTERSECTION AND AS PER ENGINEER AT THE END OF CURVES

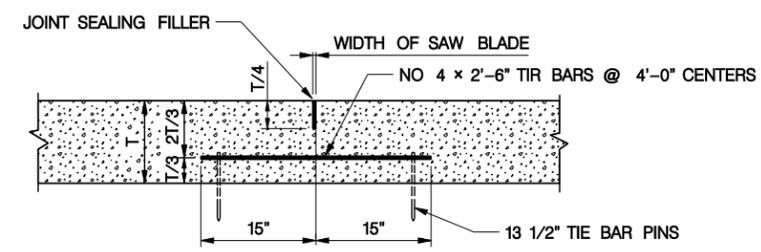


NOTE: CONTRACTION JOINTS SHALL BE SAWED. CONTRACTION JOINTS SHALL BE PLACED AT NOT MORE THAN 15' INTERVALS.

**CONTRACTION JOINT**

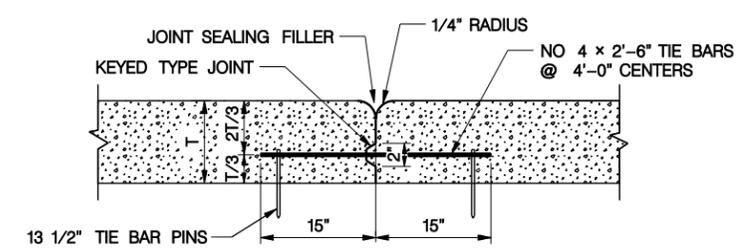


**TRANSVERSE CONSTRUCTION JOINT**



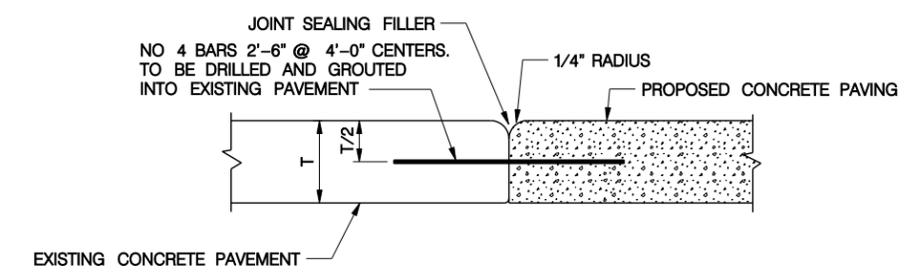
WHEN TWO ADJACENT LANES ARE POURED AT THE SAME TIME, THE LONGITUDINAL JOINT COMMON TO THE TWO LANES SHALL BE SAWED.

**SAWED**



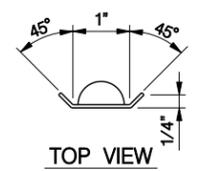
KEY TYPE JOINT SHALL BE USED ON ALL LONGITUDINAL CONSTRUCTION JOINTS WHEN THE ADJACENT LANE IS NOT POURED AT THE SAME TIME.

**KEY TYPE**

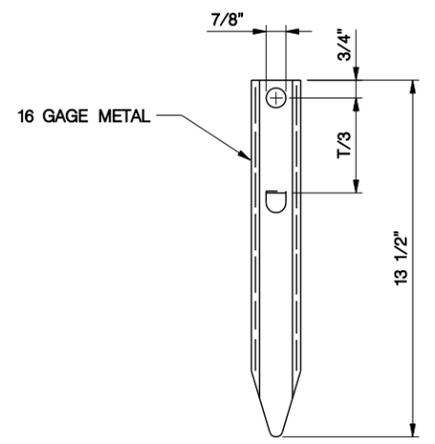


**PROPOSED TO EXISTING PAVEMENT**

**DETAILS OF LONGITUDINAL JOINTS**



**TOP VIEW**



**TIE BAR PIN**

**NOTE:**

THE CONTRACTOR MAY SUBSTITUTE OTHER DESIGNS FOR EXPANSION AND CONTRACTION JOINT SUPPORTS IN LIEU OF THE TYPE SHOWN WITH PRIOR WRITTEN APPROVAL BY THE ENGINEER.

ALL JOINTS SHALL BE SEALED WITH JOINT SEALING FILLER (HOT POURED TYPE) AS PER STANDARD SPECIFICATIONS.

TIE BARS SHALL BE DEFORMED BARS.

ALL BARS SHALL SATISFY THE BEND TEST REQUIREMENTS FOR STRUCTURAL GRADE BILLET STEEL IN ACCORDANCE WITH THE SPECIFICATIONS.

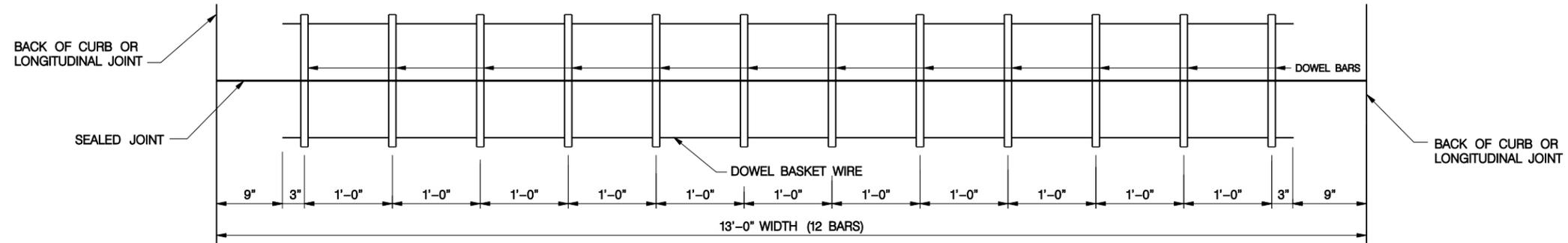
THE CONTRACTOR MAY USE A MACHINE FOR PLACING THE LONGITUDINAL TIE BARS IN LIEU OF THE TIE BAR PINS. IF A MECHANICAL TIE BAR PLACEMENT MACHINE IS NOT USED, TIE BAR PINS AS SHOWN WILL BE USED.



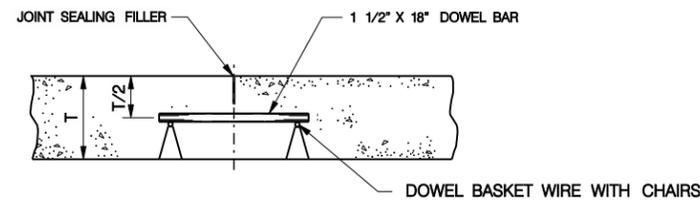
This document was originally issued and sealed by Thomas S. Shafer, E-10679, on 11-1-14. This media should not be considered a certified document.

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Date: 01/20/2010	Drawn: CAW	Checked: Approved:



**ASSEMBLY PLAN**



**CONTRACTION JOINT**

**NOTES:**

THE CONTRACTOR MAY SUBSTITUTE OTHER DESIGNS FOR EXPANSION AND CONTRACTION JOINT SUPPORTS IN LIEU OF THE TYPE SHOWN WITH PRIOR WRITTEN APPROVAL BY THE ENGINEER.

DOWEL BARS SHALL BE EPOXY COATED AND A MINIMUM OF 18" IN LENGTH.

TIE BARS SHALL BE DEFORMED BARS AND ALL OTHERS SHALL BE SMOOTH.

FOR LOAD TRANSFER DEVICES IN LANES OTHER THAN THE 13' LANES SHOWN, MAINTAIN THE SPACING OF THE 18" DOWEL BARS AT 1' INTERVALS.

THE ENDS OF THE DOWEL BASKET WIRE SHALL NOT BE LESS THAN 3" FROM THE EDGES OF THE PAVEMENT OR THE LONGITUDINAL JOINT.

KEY TYPE LONGITUDINAL JOINTS AND TRANSVERSE CONSTRUCTION JOINTS SHALL BE EDGED WITH 1/4" RADIUS AT TIME OF CONCRETE PLACEMENT.

EXPANSION JOINTS SHALL NOT BE SKEWED.

T = PAVEMENT THICKNESS

