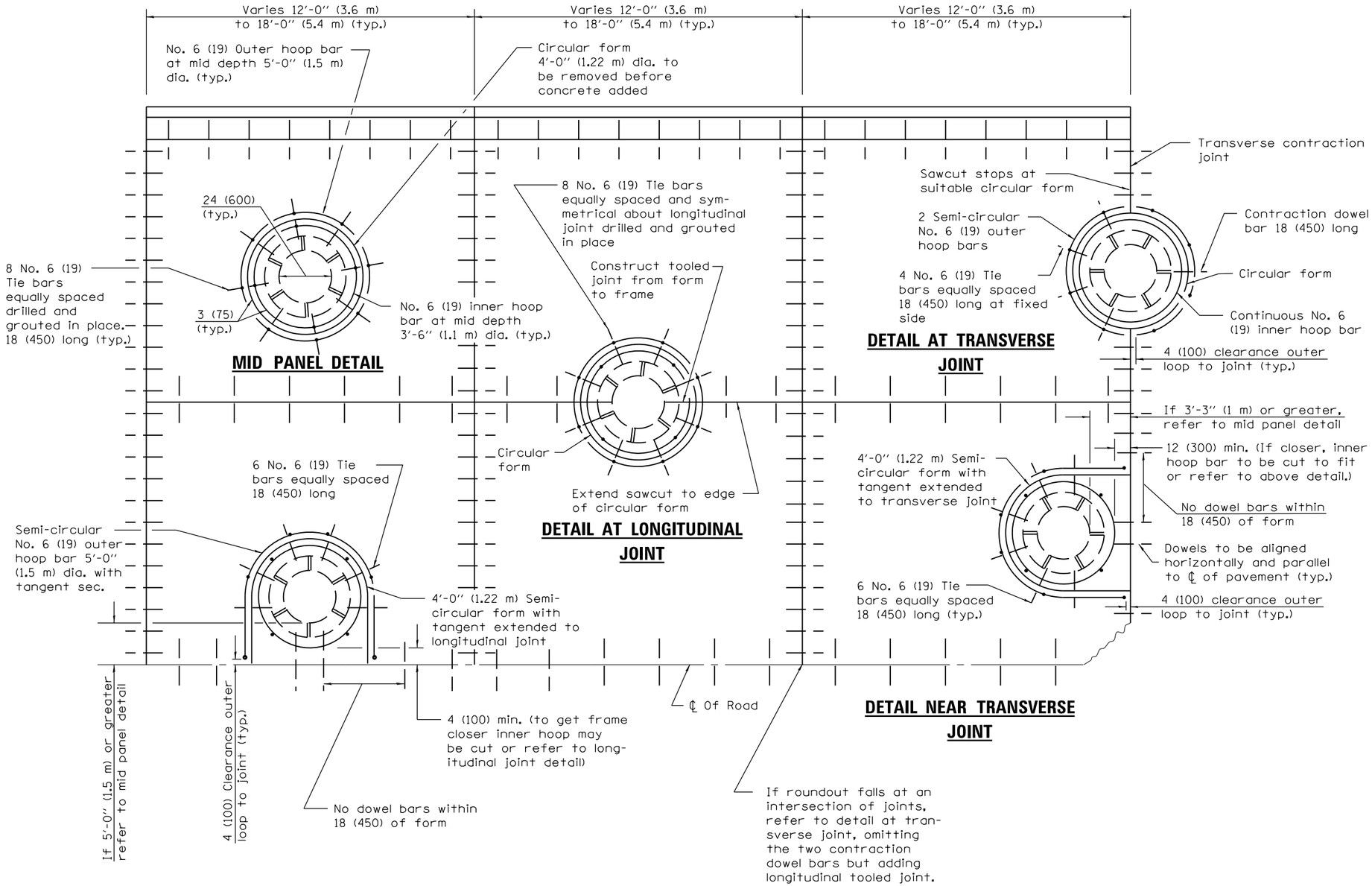


GENERAL NOTES

Transverse joints may be moved to accommodate roundout. Edge of circular joint shall be minimum 24 (600) from transverse joint. Relocated transverse joint shall be continuous from edge of pavement to edge of pavement.

The transverse joint spacing should be adjusted to avoid using the DETAIL AT TRANSVERSE JOINT. If the joint cannot be adjusted to use the DETAIL NEAR TRANSVERSE JOINT, the joint must be in the center of the structure as shown.

Circular form shall be removed prior to drill and grout of tie bars.

Drill and grout is preferred, however tie bars can be poured in place if clearance is provided to outer edge of frame. Maximum 2 (50) clearance.

Shims shall be used to adjust all frames. After adjusting mortar has cured, the shims shall be removed and the voids under the frames filled with nonshrink grout.

Hoop reinforcement shall be one piece construction having a minimum lap length of 24 (600).

All situations not shown and may require combination of details.

WHEN USING CAST IN PLACE:
Frame shall be anchored to the structure to prevent movement during the paving operation.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2011
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

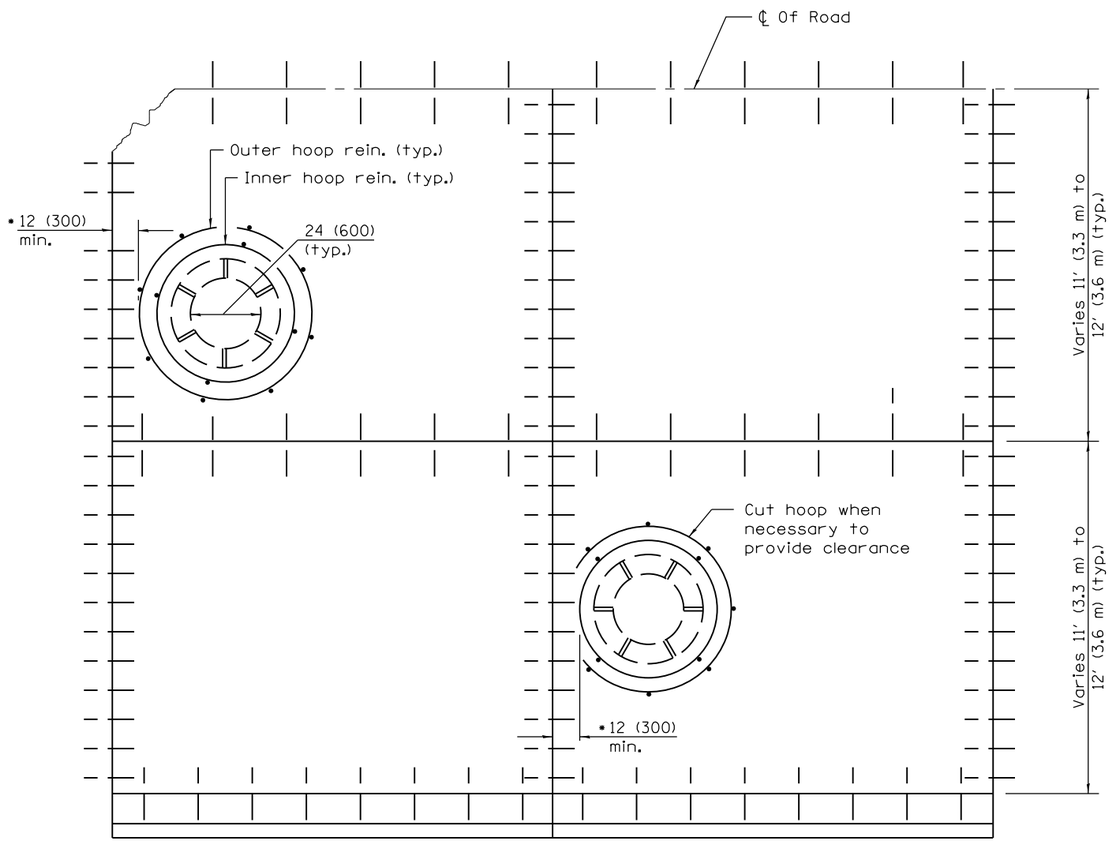
ISSUED 1-1-97

DATE	REVISIONS
1-1-11	Corrected 'T/2' dim. on
	DETAIL OF REINFORCEMENT
	FOR PAVEMENT ROUNDOUT.
1-1-08	Switched units to
	English (metric).

PCC PAVEMENT ROUNDOUTS

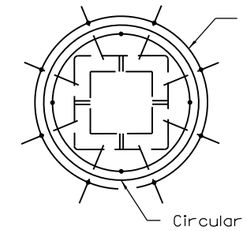
(Sheet 1 of 2)

STANDARD 420111–03



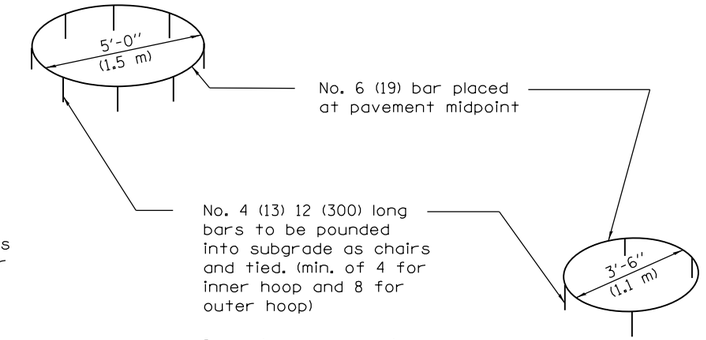
• Less than 12 (300) formed roundout to be used.

CAST IN PLACE DETAIL



All dimensions same for the majority of circular frame & grates. For larger structures increase hoop bar and circular form diameter by 12 (300) each and add two additional equally spaced tie bars.

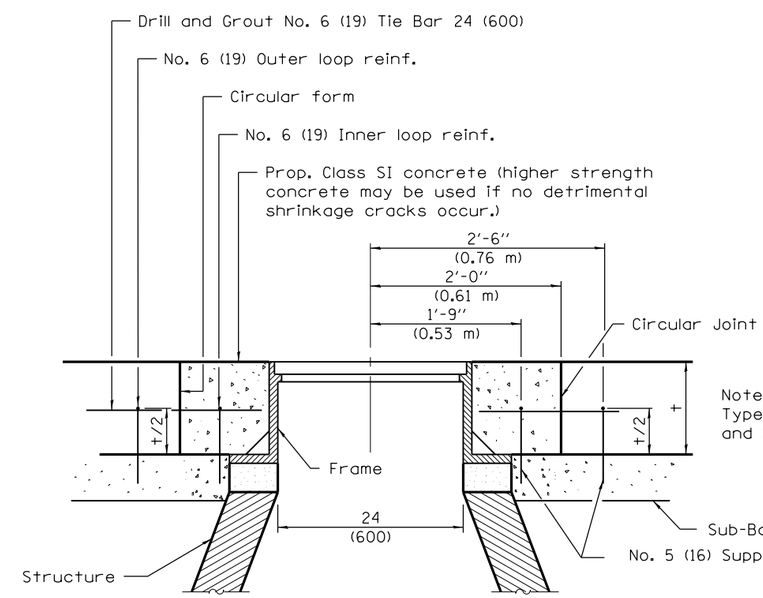
ROUNDOUT FOR SQUARE FRAME & GRATE AND MANHOLES



No. 6 (19) bar placed at pavement midpoint

No. 4 (13) 12 (300) long bars to be pounded into subgrade as chairs and tied. (min. of 4 for inner hoop and 8 for outer hoop)

Inner hoop may rest dowel bar (tie bar to longitudinal joint) or tie bars which shall not interfere in the alignment.



Note:
Type 1 or Type 5 Frame and Grate may be used

DETAIL OF REINFORCEMENT FOR PAVEMENT ROUNDOUT

Illinois Department of Transportation

PASSED January 1, 2011
Michael Brand
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2011
Scott Bennett
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ISSUED 1-1-97

PCC PAVEMENT ROUNDOUTS

(Sheet 2 of 2)

STANDARD 420111–03