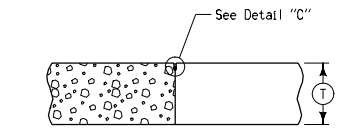
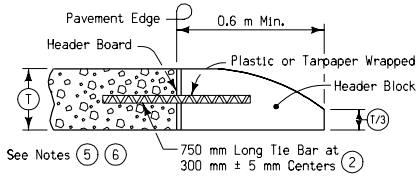
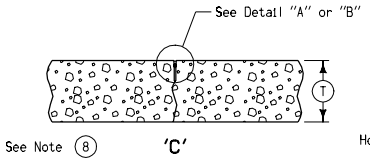


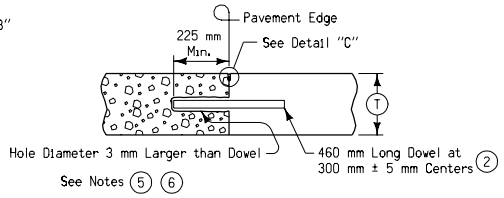
'B'
PLAIN JOINT
FOR ABUTTING PAVEMENT SLABS



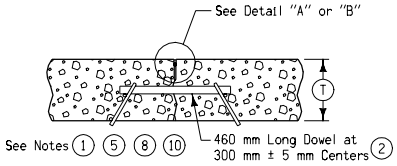
'HT'
HEADER JOINT
(END RIGID PAVEMENT)



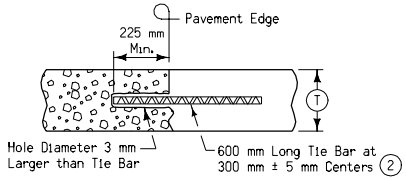
'C'
CONTRACTION JOINT



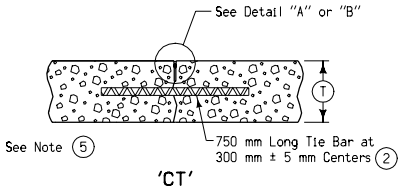
'RD'
ABUTTING PAVEMENT JOINT



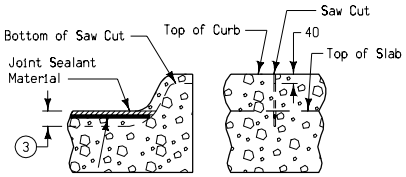
'CD'
DOWELED CONTRACTION JOINT



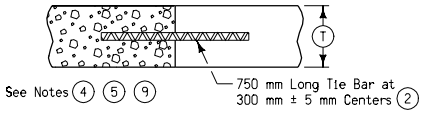
'RT'
ABUTTING PAVEMENT JOINT
RIGID TIE



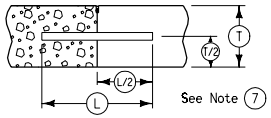
'CT'
TIED CONTRACTION JOINT



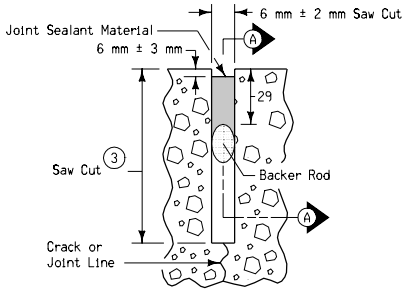
Note: Match 'CT', 'CD' or 'C' Joint in pavement.
'C' JOINT IN CURB



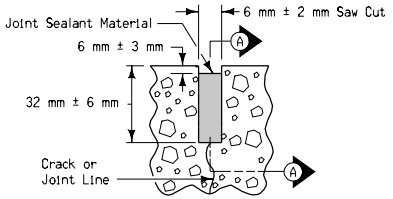
'DW'
DAY'S WORK JOINT (Non-Working)



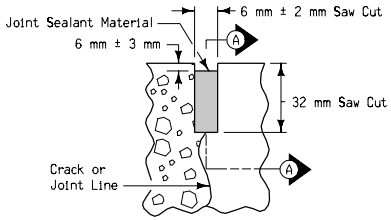
TYPICAL BAR PLACEMENT
Applies to all joints unless otherwise detailed.



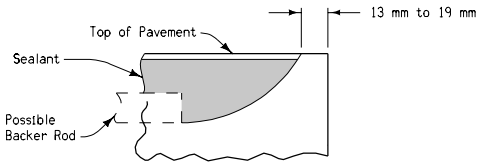
DETAIL "A"
(Sawcut formed by conventional concrete sawing equipment)



DETAIL "B"
(Sawcut formed by approved early concrete sawing equipment)



DETAIL "C"



SECTION A-A
DETAIL AT EDGE OF PAVEMENT

1. Free moving ends of dowel support assembly shall be placed alternately across joints.
2. Refer to Bar Size Table.
3. Depth of sawcut shall be T/ 3, except 'C' joint shall be T/ 4.
4. 'DW' joint shall be located at a midpanel location between future 'C' or 'CD' joints. It shall be no closer than 1.5 meters to a 'C' or 'CD' joints.
5. Bars in Transverse Joints shall be placed according to Standard Road Plan RH-58.
6. Edge with 5 millimeter tool for length of joint indicated if formed; edging not required when cut with diamond blade saw. Remove header block and board when second slab is poured.
7. When tieing into old pavement, T represents the depth of sound Portland and Cement Concrete.
8. Unless otherwise specified, transverse contraction joints in mainline pavement shall be 'CD' when T is greater or equal to 200 millimeters. 'C' when T is less than 200 millimeters.
9. 'RT' joint may be used in lieu of 'DW' joint at the end of the days work. Any pavement damaged due to the drilling shall be removed at the contractor's expense.
10. See Standard Road Plan RH-55 and RH-57 for dowel assembly fabrication details.

BAR SIZE TABLE

T	< 200 mm	≥ 200 mm but < 250 mm	≥ 250 mm
Dowel Diameter (minimum)	19	31	38
Tie Bar Size	#20	#30	#35

All dimensions given in millimeters unless noted.

M

METRIC VERSION

Iowa Department of Transportation
Highway Division

STANDARD ROAD PLAN | **RH-50**

REVISION: Change Dowel Size to Dowel Diameter in table; add note 10.

REVISION NO. 15

REVISION DATE 04-19-05

William J. Stein
APPROVED BY DESIGN METHODS ENGINEER

JOINTS
(TRANSVERSE CONTRACTION)