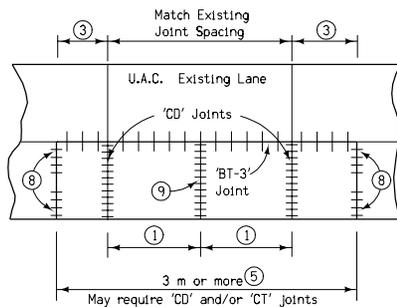
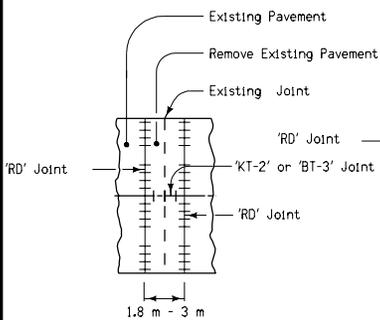


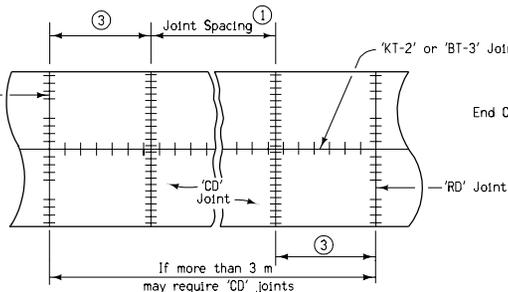
ONE LANE WIDTH PATCH



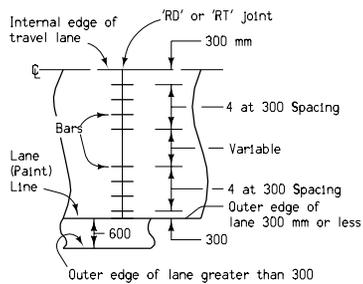
ONE LANE WIDTH PATCH



FULL ROADWAY WIDTH PATCH



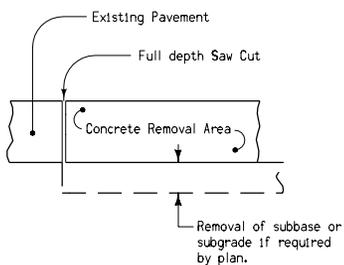
FULL ROADWAY WIDTH PATCH



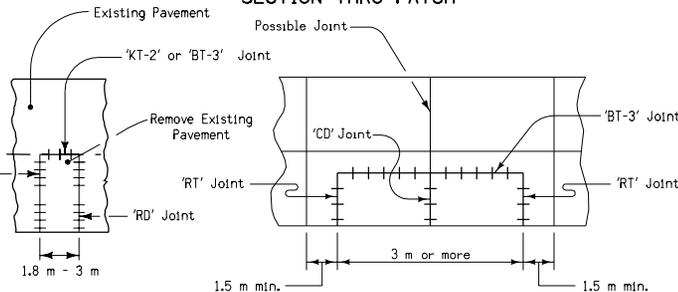
DETAIL FOR 'RT' OR 'RD' JOINT BAR SPACING

TYPICAL HALF PLAN

For interior lanes, place first bar 300 mm from edge of lane (slab).

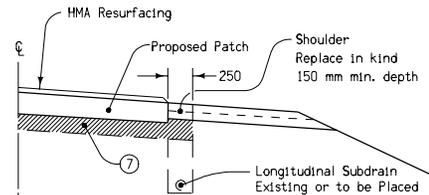


PAVEMENT REMOVAL DETAILS

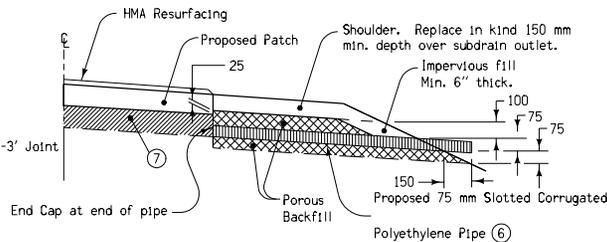


ONE LANE WIDTH PATCH (NO OPPOSING JOINT)

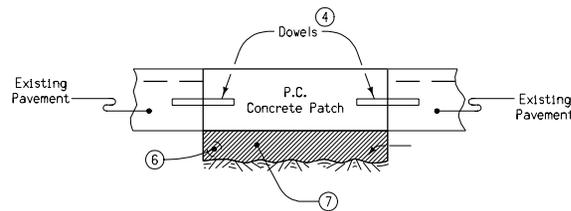
PARTIAL LANE WIDTH PATCH



GRANULAR SUBBASE AND SUBDRAIN (WHEN REQUIRED BY PLAN) IF LONGITUDINAL SUBDRAIN IS PRESENT OR IS TO BE PLACED



GRANULAR SUBBASE AND SUBDRAIN (WHEN REQUIRED BY PLAN) WITHOUT LONGITUDINAL SUBDRAIN



SECTION THRU PATCH

BAR SIZE TABLE			
Existing PCC Pavement Thickness	Less than 200 mm	250 mm or More	200 mm but less than 250 mm
DOWEL SIZE	20	30	35
TIE BAR SIZE	#20	#30	#35

All dimensions given in millimeters unless noted.

M METRIC VERSION	<p>Iowa Department of Transportation</p>	REVISION	
		1 10-17-06	
	STANDARD ROAD PLAN		RR-5
	REVISIONS: Added details for one lane width with no opp. joints and BT-3 joint to full roadway patch's long. joints. Increased distance to outer edge of pavement. <i>Deanna Mayfield</i> APPROVED BY DESIGN METHODS ENGINEER		SHEET 1 of 1
FULL DEPTH P.C. CONCRETE PATCH WITH DOWELS (EXISTING COMPOSITE PAVEMENT)			

If damage occurs outside of patch locations due to removal operations, the contractor shall be responsible for the cost of repairs.

Refer to Standard Road Plans RH-50 and RH-51 for details of joint construction.

All patches shall be rectangular even when existing pavement joints are skewed.

- Joint spacing 3 meters minimum, 6 meters maximum, 4.5 meters optimum.
- The joint shall not be sawed nor sealed. Full depth saw cut required prior to removal. Place 12" preformed joint material between patch and concrete in adjacent lane.
- New 'CD' Joint must be a minimum 1.5 meters from the patch end.
- Install dowels approximately mid-depth of existing PCC Pavement.
- If one lane patch exceeds 15 meters, both lanes should be considered for patching.
- If longitudinal subdrain (shoulder) is not to be placed or if not present on side of roadway to be patched, then place proposed 75 millimeters slotted corrugated pipe at low end of patch.
- 150 millimeters granular subbase if required by plan. When placed, granular subbase should extend over longitudinal subdrain, if present.
- If this joint is across from an existing crack or joint, then use 'RD' joint, otherwise use 'RT' joint. 'RT' joints shall not be sawed after patching nor be sealed. Refer to RH-50 for joint details.
- Mid panel joint shall be either a 'CT' or a 'CD' joint. If there is no existing joint or crack in the adjacent pavement, place a 'CT' joint. If there is an existing joint or crack in the adjacent pavement, place a 'CD' joint at the same transverse location. 'CT' joints shall be sawed but not sealed.