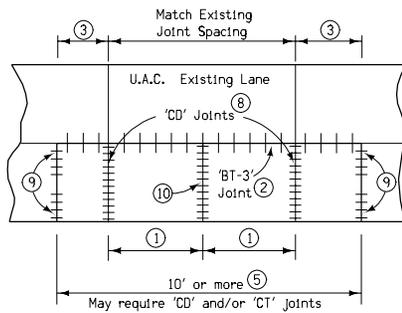
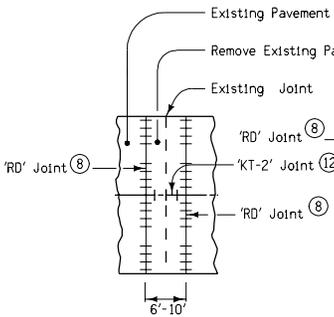


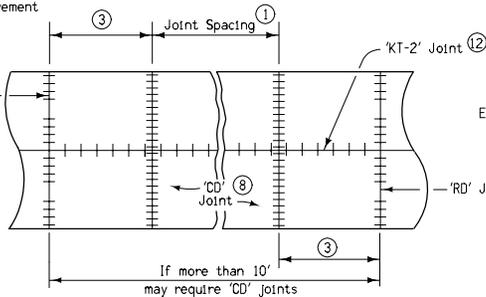
ONE LANE WIDTH PATCH



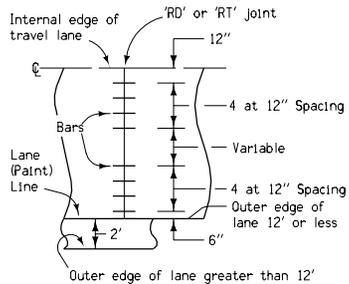
ONE LANE WIDTH PATCH



FULL ROADWAY WIDTH PATCH



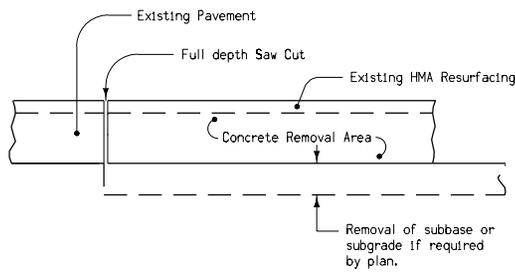
FULL ROADWAY WIDTH PATCH



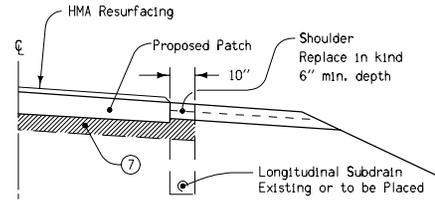
DETAIL FOR 'RT' OR 'RD' JOINT BAR SPACING

TYPICAL HALF PLAN

For interior lanes, place first bar 12" from edge of lane (slab).

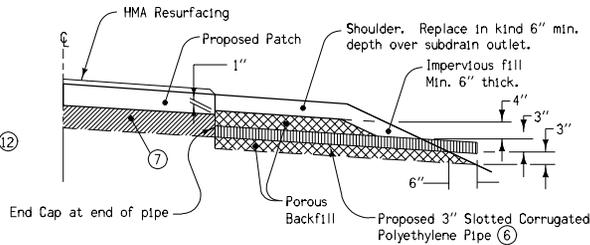


PAVEMENT REMOVAL DETAILS



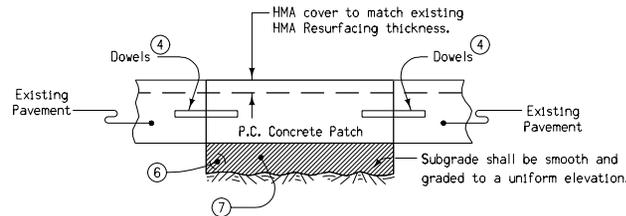
GRANULAR SUBBASE AND SUBDRAIN
(WHEN REQUIRED BY PLAN)

IF LONGITUDINAL SUBDRAIN IS PRESENT OR IS TO BE PLACED

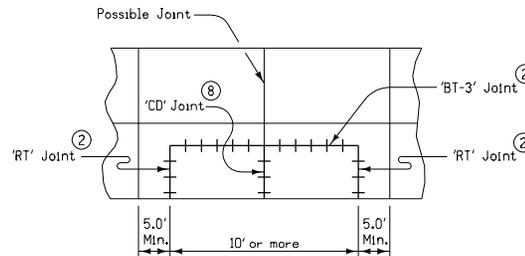


GRANULAR SUBBASE AND SUBDRAIN

(WHEN REQUIRED BY PLAN)
WITHOUT LONGITUDINAL SUBDRAIN



SECTION THRU PATCH



PARTIAL ROADWAY WIDTH PATCH

GENERAL NOTES:

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

- 1 Joint spacing 10 ft. minimum, 20 ft. maximum, 15 ft. optimum.
- 2 The joint shall not be sowed nor sealed.
- 3 New 'CD' Joint must be a minimum 5 ft. from the patch end.
- 4 Install dowels approximately mid-depth of existing PCC Pavement.
- 5 If one lane patch exceeds 50 ft., both lanes should be considered for patching.
- 6 If longitudinal subdrain (shoulder) is not to be placed or if not present on side of roadway to be patched, then place proposed 3 inch slotted corrugated pipe at low end of patch.
- 7 6 inches granular subbase if required by plan. When placed, granular subbase should extend over longitudinal subdrain, if present.
- 8 The joint shall be sawed and sealed after patching. Refer to RH-50 for joint details.
- 9 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.
- 10 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 of the same transverse location. 'CT' joints shall be sawed but not sealed.
- 11 Full depth saw cut required prior to removal. Place 1/2" preformed joint material between patch and concrete in adjacent lane.
- 12 If all lanes are patched at the same time, longitudinal joint will be sowed but not sealed. If patches are placed in stages, see note 2.

BAR SIZE TABLE			
Existing PCC Pavement Thickness	Less than 8"	8" but less than 10"	10" or More
DOWEL SIZE	3/4"	1 1/4"	1 1/2"
TIE BAR SIZE	#6	#10	#11

Iowa Department of Transportation
Highway Division

STANDARD ROAD PLAN RR-14

REVISION: NEW; Replaces Detail Sheet 532-5B	REVISION NO. New
APPROVED BY: <i>William J. Altan</i> DESIGN METHODS ENGINEER	REVISION DATE 04-30-02

FULL DEPTH
COMPOSITE PATCH
WITH DOWELS