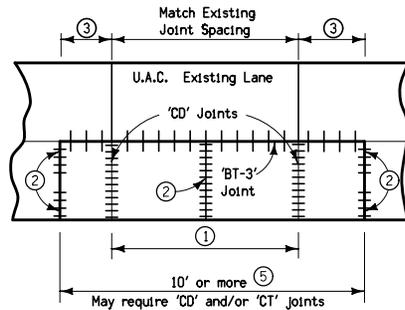
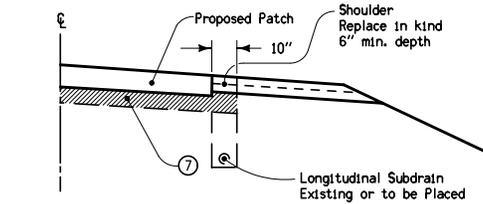


**ONE LANE WIDTH PATCH**



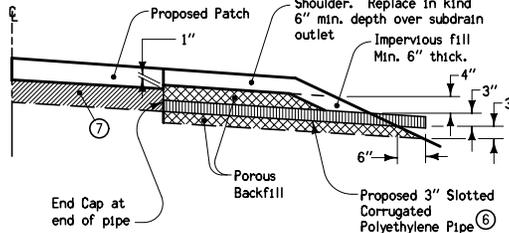
**ONE LANE WIDTH PATCH**



**GRANULAR SUBBASE AND SUBDRAIN**

(WHEN REQUIRED BY PLAN)

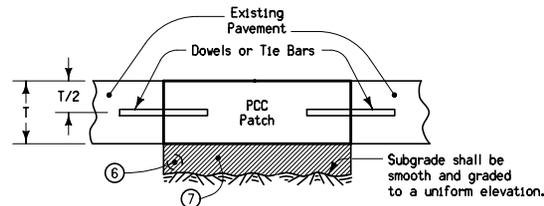
IF LONGITUDINAL SUBDRAIN IS PRESENT OR IS TO BE PLACED



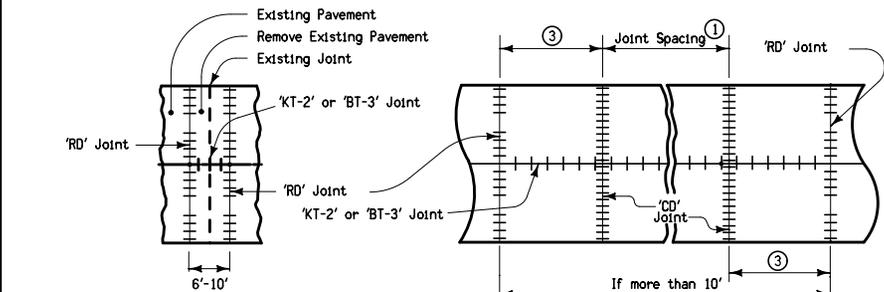
**GRANULAR SUBBASE AND SUBDRAIN**

(WHEN REQUIRED BY PLAN)

WITHOUT LONGITUDINAL SUBDRAIN

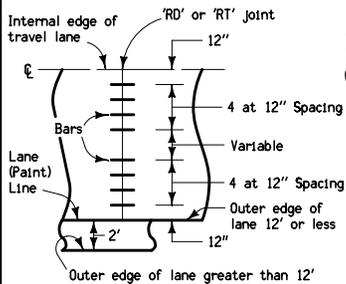


**LONGITUDINAL SECTION THRU PATCH**



**FULL ROADWAY WIDTH PATCH**

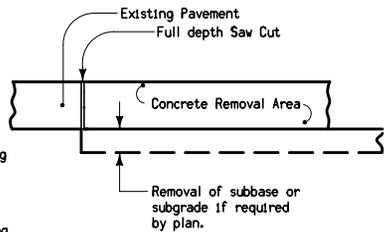
**FULL ROADWAY WIDTH PATCH**



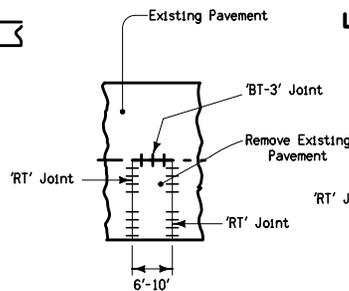
**DETAIL FOR 'RT' OR 'RD' JOINT BAR SPACING**

TYPICAL HALF PLAN

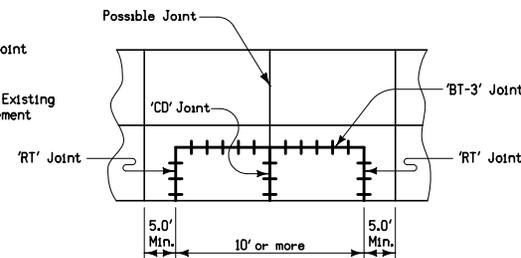
For interior lanes, place first bar 12" from edge of lane (slab).



**PAVEMENT REMOVAL DETAILS**



**ONE LANE PATCH (NO OPPOSING JOINT)**



**PARTIAL LANE WIDTH PATCH**

See PV-1 for joint details.

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 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 and not sealed.
- ③ New 'CD' joint must be a minimum 5 ft. from the patch end.
- ④ The joint shall not be sawed or sealed. Place 1/2" preformed joint material between patch and concrete in adjacent lane.
- 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.

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

Iowa Department of Transportation

REVISION 4 04-20-10

**STANDARD ROAD PLAN** RR-4

SHEET 1 of 1

REVISIONS: Updated references to renamed standards. Adjusted joint spacing length for one lane width patch.

Deanna McFiehl  
APPROVED BY DESIGN METHODS ENGINEER

**FULL DEPTH PCC PATCH WITH DOWELS (EXISTING NON-COMPOSITE PAVEMENT)**