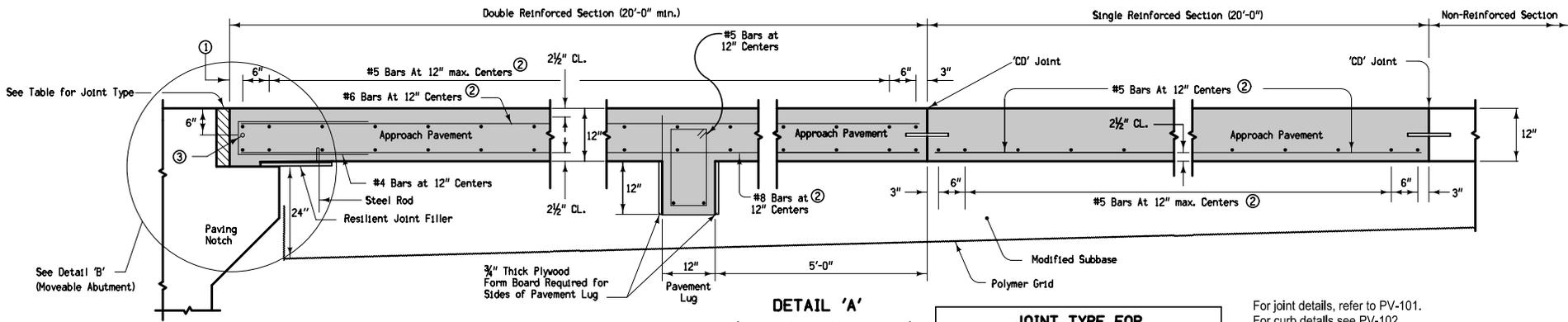
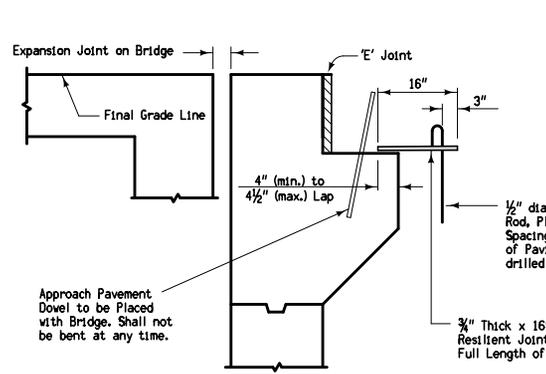


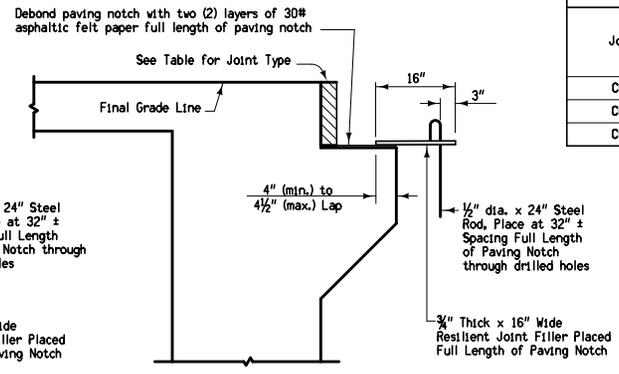
DETAIL 'A'
(Fixed Abutment)



DETAIL 'A'
(Moveable Abutment)



DETAIL 'B' (Fixed Abutment)



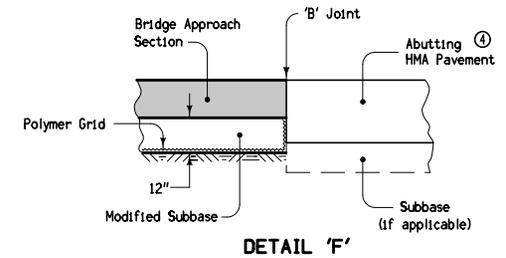
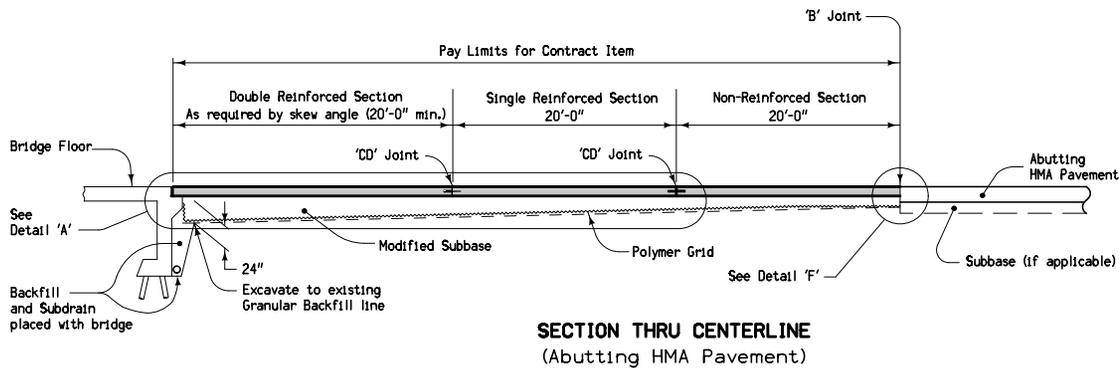
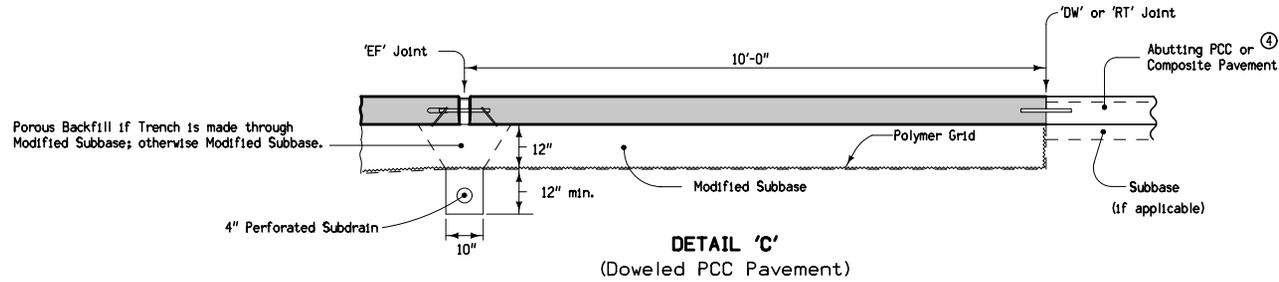
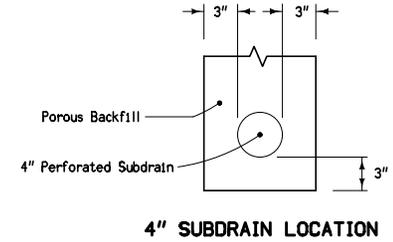
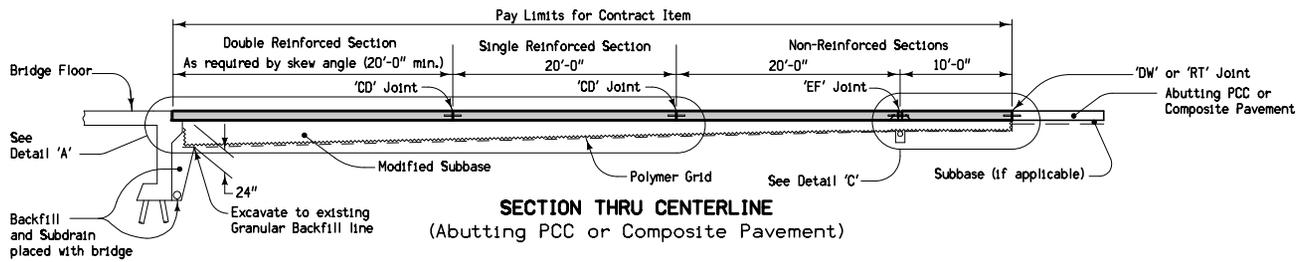
DETAIL 'B' (Moveable Abutment)

JOINT TYPE FOR MOVEABLE ABUTMENT BRIDGES		
Joint	Maximum Bridge Length	
	Concrete Beam or Slab	Steel Girder
CF-1	370'	250'
CF-2	465'	320'
CF-3	575'	400'

For joint details, refer to PV-101.
For curb details see PV-102
All transverse bars are #5.
Possible Contract Item:
Bridge Approach, RK-20
Possible Tabulation: 112-6

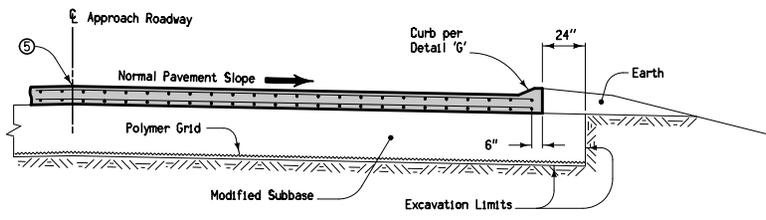
- ① 2" min. to 2 1/2" max. clear to bent bar.
- ② Minimum lap length: #5 Bars - 18"
#6 Bars - 27"
#8 Bars - 48"
- ③ If bridge is skewed, place additional #5 bar parallel to skewed face.

 Iowa Department of Transportation STANDARD ROAD PLAN REVISIONS: Changed "U" bar size on sheet 1 from #5 to #4 to match sheet 3. Added note 9, Changed curb. <i>Deanna Macfild</i> APPROVED BY DESIGN METHODS ENGINEER	REVISION
	8 10-18-11
	RK-20
	SHEET 1 of 3
DOUBLE REINFORCED 12" APPROACH	

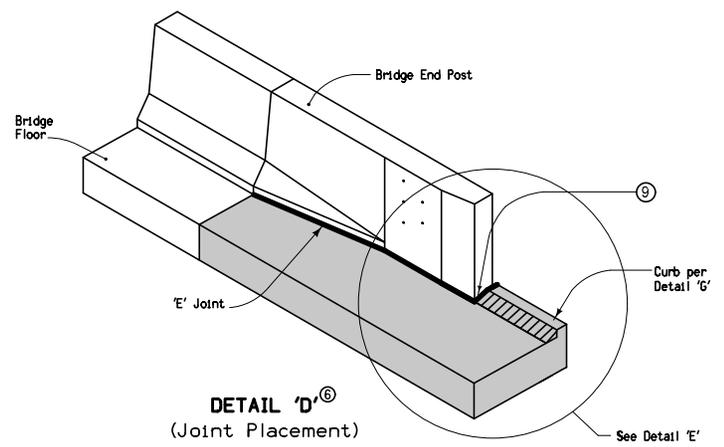


④ If abutting pavement (PCC or HMA) is not in place, refer to RK-30.

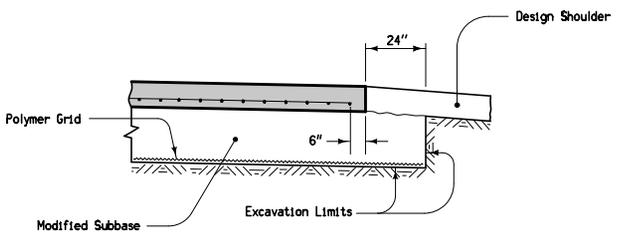
 Iowa Department of Transportation	REVISION	
	8	10-18-11
STANDARD ROAD PLAN	RK-20	
	SHEET 2 of 3	
REVISIONS: Changed "U" bar size on sheet 1 from #5 to #4 to match sheet 3. Added note 9. Changed curb.		
<i>Deanna Macfadyen</i> APPROVED BY DESIGN METHODS ENGINEER		
DOUBLE REINFORCED 12" APPROACH		



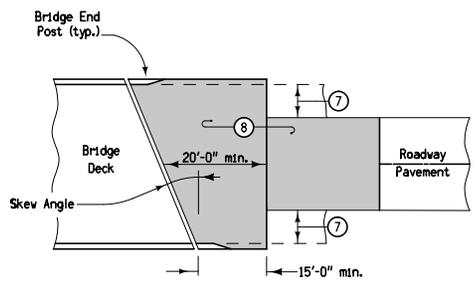
SECTION A-A ⑥



DETAIL 'D' ⑥
(Joint Placement)



SECTION B-B ⑥

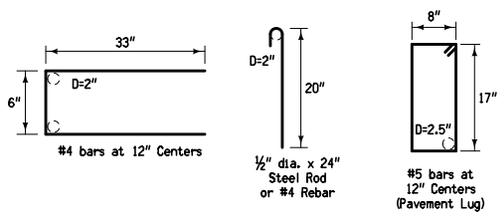


APPROACH PAVEMENT LAYOUT AT A SKEW

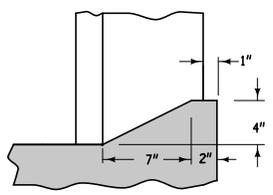
- ⑤ Longitudinal Joint: (PV-101)
Single pour — Saw cut joint per Detail B.
Two pours — Use 'KS-2' Joint
- ⑥ Refer to RK-21, RK-22, or RK-23.
- ⑦ Design shoulder width.
- ⑧ Reinforced bridge approach section.
- ⑨ Expansion joint at end of bridge end post: Place joint filler the full depth of the bridge approach pavement. In areas with curb, place full depth of pavement plus curb and shape material to fit the shape of the curb per Section B-B of PV-101. Seal joint per Detail F of PV-101.

- Fixed Abutment Bridges: Type 'E' Joint

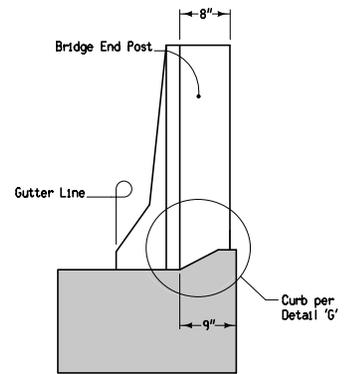
- Moveable Abutment Bridges: Flexible Foam Expansion Joint Filler in accordance with Specification Section 4136. Minimum filler width is the abutment 'CF' joint width. Joint length as required to completely fill from back side of curb to front face of bridge wing.



BENT BAR SHAPES



DETAIL 'G'



DETAIL 'E'
(Back of Curb Placement)

 Iowa Department of Transportation	REVISION	
	8	10-18-11
	RK-20	
STANDARD ROAD PLAN		SHEET 3 of 3
REVISIONS: Changed "U" bar size on sheet 1 from #5 to #4 to match sheet 3. Added note 9, Changed curb.		
<i>Deanna Macfild</i> APPROVED BY DESIGN METHODS ENGINEER		
DOUBLE REINFORCED 12" APPROACH		