

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 Detail 'G'.

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

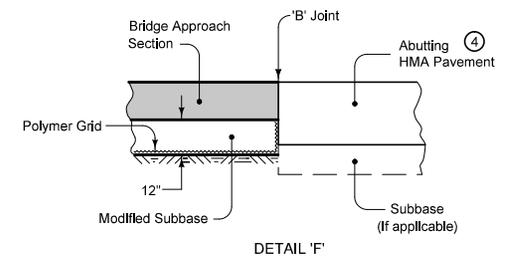
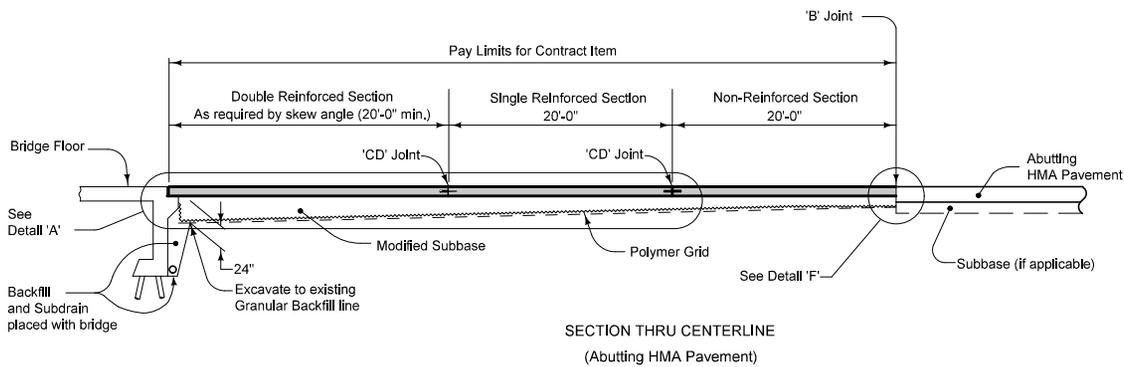
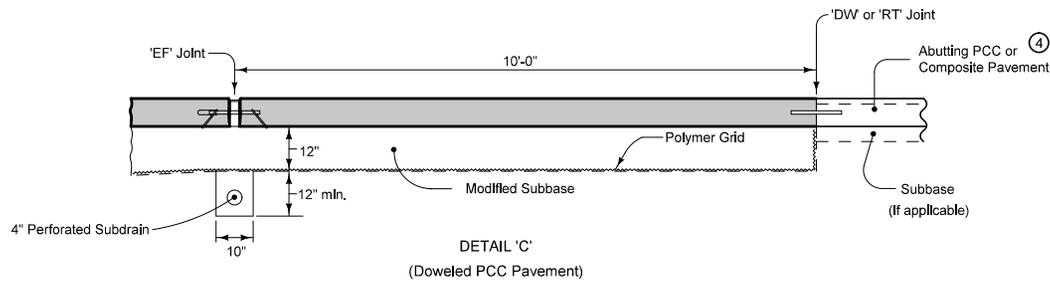
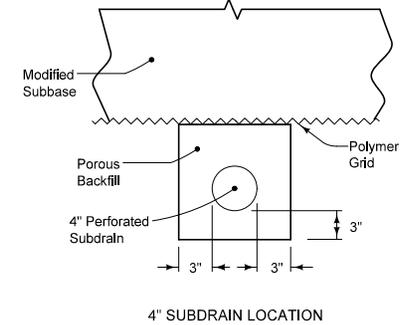
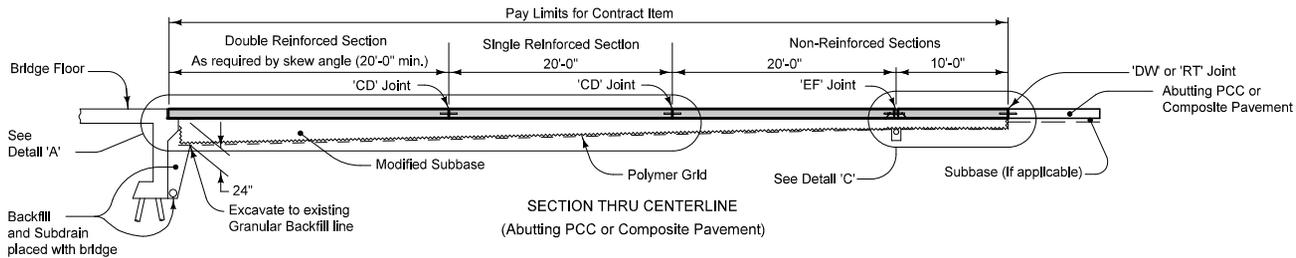
Deanna Macfild
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REVISION
11 04-16-13

RK-20

SHEET 1 of 3

DOUBLE REINFORCED 12" APPROACH



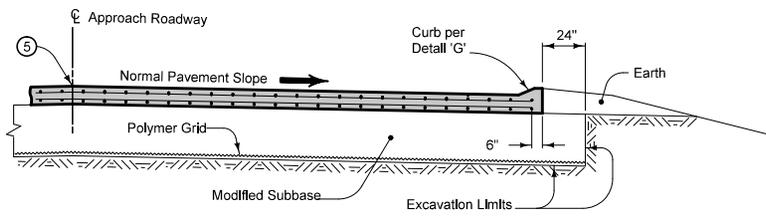
 Iowa Department of Transportation	REVISION	
	11	04-16-13
STANDARD ROAD PLAN	RK-20	
	SHEET 2 of 3	

REVISIONS: Modified notes to change reference from PV-102 to Detail 'G'.

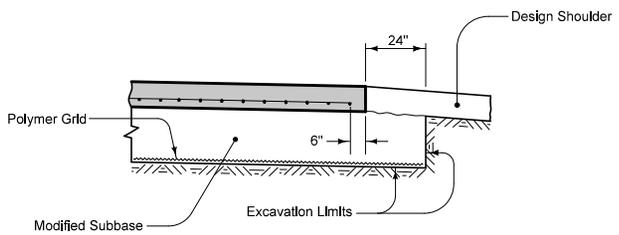
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④ If abutting pavement (PCC or HMA) is not in place, refer to RK-30.

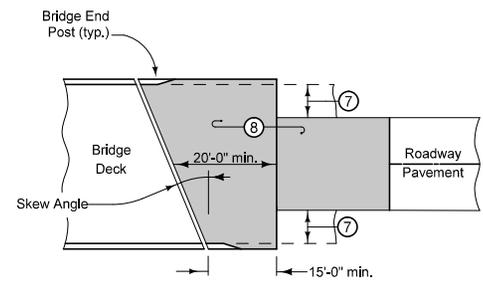
DOUBLE REINFORCED 12" APPROACH



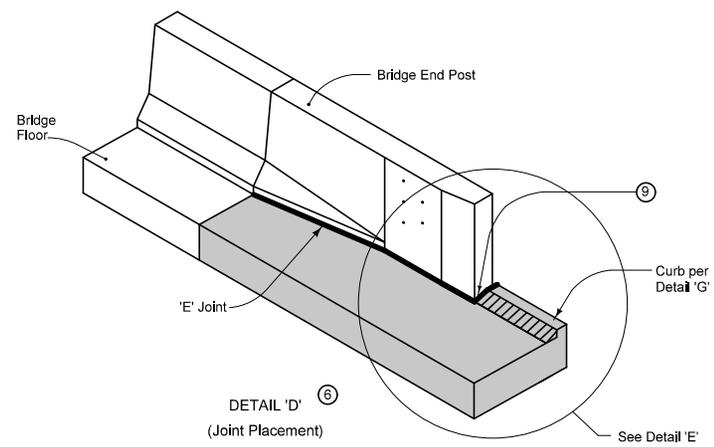
SECTION A-A ⑥



SECTION B-B ⑥



APPROACH PAVEMENT LAYOUT AT A SKEW

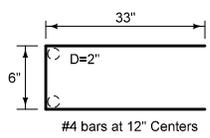


DETAIL 'D' ⑥
(Joint Placement)

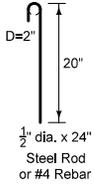
- ⑤ Longitudinal Joint; (PV-101)
Single pour - Saw cut joint per Detail B.
Two pours - Use 'KS-2' Joint
- ⑥ Refer to RK-21, RK-22, or RK-23.
- ⑦ Design shoulder width.
- ⑧ Reinforced bridge approach section.
- ⑨ Expansion joint at end of bridge end post: Place joint filler the full depth of the bridge 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

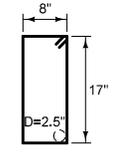
- Moveable Abutment Bridges: Flexible Foam Expansion Joint Filler in accordance with Specification Section 4136. Minimum filler width is the abutment 'CF' joint width. Joint length as required to completely fill from back side of curb to front face of bridge wing.



#4 bars at 12" Centers

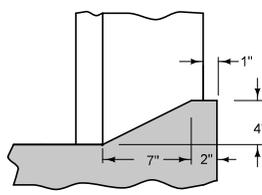


1/2" dia. x 24"
Steel Rod
or #4 Rebar

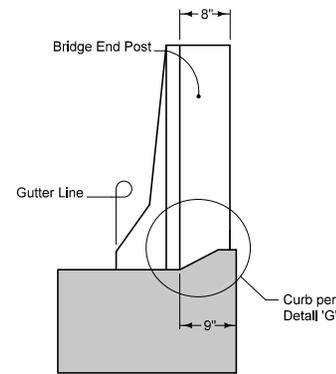


#5 bars at
12" Centers
(Pavement Lug)

BENT BAR SHAPES



DETAIL 'G'



DETAIL 'E'
(Back of Curb Placement)

<p>Iowa Department of Transportation</p> <p>STANDARD ROAD PLAN</p> <p>REVISIONS: Modified notes to change reference from PV-102 to Detail 'G'.</p> <p><i>Deanna Macfild</i> APPROVED BY DESIGN METHODS ENGINEER</p>	REVISION	
	11	04-16-13
	<p>RK-20</p> <p>SHEET 3 of 3</p>	

DOUBLE REINFORCED 12" APPROACH