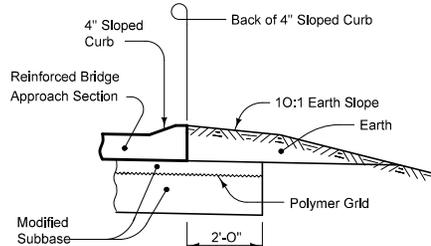
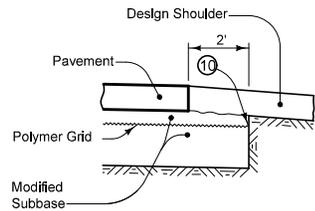


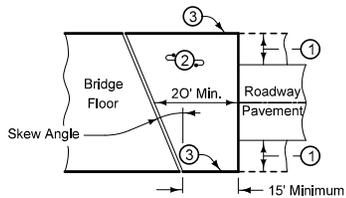
SECTION A-A



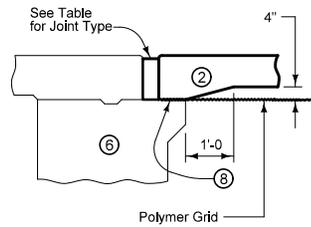
SECTION B-B



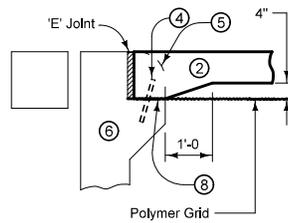
SECTION C-C



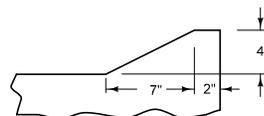
TWO LANE APPROACH PAVEMENT LAYOUT AT A SKEW



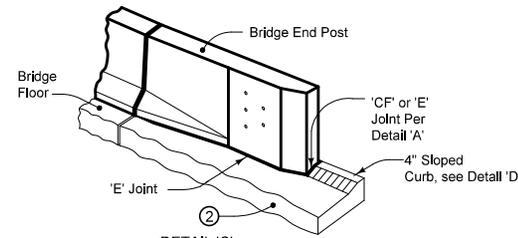
DETAIL 'A'  
Movable Abutment Bridge



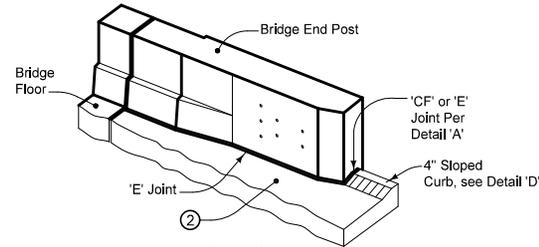
DETAIL 'A'  
Fixed Abutment Bridge



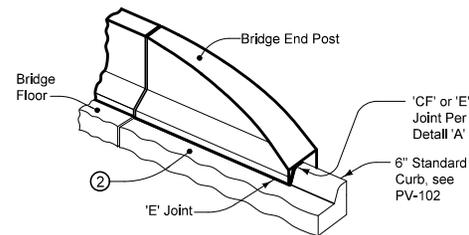
DETAIL 'D'  
4" Sloped Curb



DETAIL 'C'  
Five Hole Bridge End Post



DETAIL 'C'  
Retrofit Bridge End Post



DETAIL 'C'  
Low Speed Bridge End Post

CURB ALIGNMENT and JOINT PLACEMENT

Sections and details apply to Standard Road Plans RK-16 and RK-19B through RK-19J.

- ① Design Shoulder width.
- ② Reinforced Bridge Approach Section.
- ③ Build curb. See Detail C.
- ④ Reinforcing Bar.
- ⑤ Temporary paving block removed by paving contractor.
- ⑥ Bridge Abutment.
- ⑦ Longitudinal Joint: (PV-101)  
Single pour - Saw cut joint per Detail B.  
Two pours - Use 'KS-1' joint.
- ⑧ Secure polymer grid on top of paving notch.
- ⑨ Extend polymer grid to 2' outside edge of pavement.
- ⑩ Trim fabric to edge of excavation.
- ⑪ If bridge is skewed, place additional #5 bar parallel to skewed face.
- ⑫ T = 10 inches.

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

Possible Contract Item:  
Bridge Approach, RK-19

Possible Tabulation:  
112-6

|  |               |
|--|---------------|
| <p>Iowa Department of Transportation</p>   | REVISION      |
|  | 19 04-16-13   |
| <b>STANDARD ROAD PLAN</b>  | <b>RK-19A</b> |
| SHEET 1 of 1   |               |
| <small>REVISIONS: Added Detail 'D' and reference to PV-102. Removed Flared Bridge End Post detail.</small> |               |
| <p>APPROVED BY DESIGN METHODS ENGINEER</p>   |               |
| <p><b>BRIDGE APPROACH SECTION</b><br/><b>(GENERAL DETAILS)</b></p>   |               |