

| ESTIMATED QUANTITIES FOR PRECAST COPING                                   |       |          |  |
|---|-------|----------|--|
| ITEM  | UNIT  | QUANTITY |  |
| Concrete (Precast Coping)   | CY/LF | 0.095    |  |
| Concrete (C-I-P Raised Sidewalk)  | CY/LF | 0.232    |  |
| Reinforcing Steel (Precast Coping) excluding<br>Bars 5T, 5X and 5S (Typ.) | LB/LF | 23.90    |  |
| Reinforcing Steel (C-I-P Raised Sidewalk) (Typ.)                          | LB/LF | 13.50    |  |
| Additional Reinf. @ Expansion Joints (Steel Dowels)                       | LB    | 32.04    |  |

The above concrete quantities are based on a Type D Concrete Curb (See Note 2).

DESCRIPTION:

- Shape with a Type D curb adjacent to a 6'-0" wide sidewalk. Adjust this dimension as required for other curb types or transitions
- at Begin or End Retaining Wall. 3. Trim end of Bars 5T and 5X to clear construction joint for 42" Vertical Shape.
- 4. At the Contractor's option, mechanical couplers may be used to splice reinforcing. Complete details, including reinforcement lengths are required in the Shop Drawings. Mechanical couplers shall develop 125% of the bar yield strength.
- 5. Contractor to maintain stability of precast coping prior to junction slab completion.
- 6. When the air gap between the precast coping extension and retaining wall exceeds 21/2", fill gap with full depth Expanded Polystyrene to provide a maximum  $2\frac{1}{2}$ " air gap.
- 7. For Bullet Railings, see Index 515-021 and 515-022.
- 8. Begin placing Railing Bars 5T and 5X at the railing end and proceed toward Retaining Wall to avoid conflict with guardrail bolt holes. If required, adjustments to the bar spacing for Bars 5T and 5X shall be made immediately adjacent to Begin or End Bridge. Cut, shift and rotate Bars 5T and 5X as required to maintain cover in End Transition.

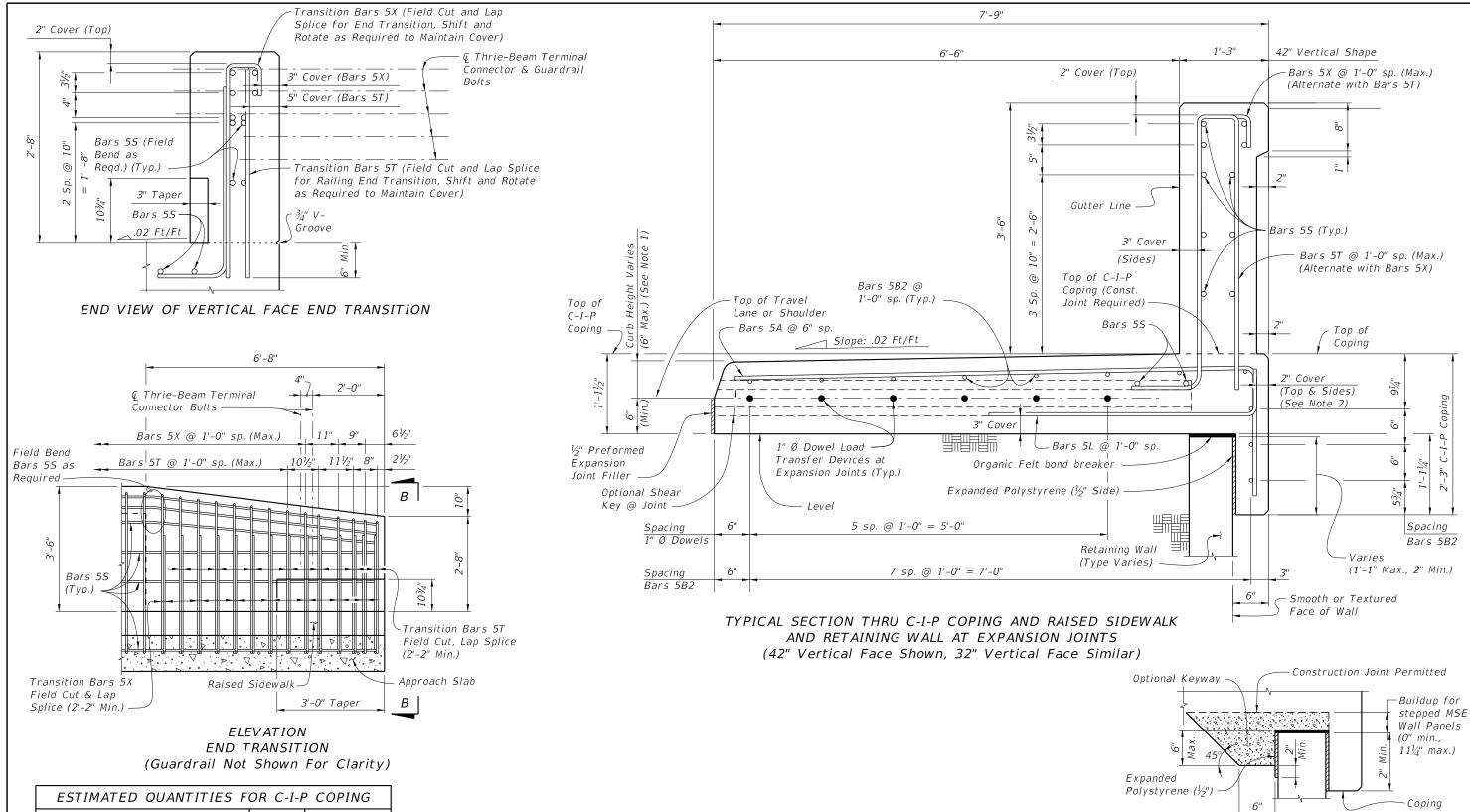
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32" VERTICAL SHAPE INDEX

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ITEM UNIT QUANTITY

Concrete CY/LF 0.326 Reinforcing Steel (Typical) excluding LB/LF 35.38 Bars 5T, 5X and 5S (Typ.) Additional Reinf. @ Expansion Joints 32.04

The above concrete quantities are based on a Type D Concrete Curb on a level Retaining Wall (See Note 1).

## NOTES:

- 1. Match roadway curb shape (Type) and height. See Roadway Plans and Index 520-001. 6'-6" dimension is based on a 42" Vertical Shape with a Type D curb adjacent to a 6'-0" wide sidewalk. Adjust this dimension as required for other curb types or transitions at Begin or End Retaining Wall.
- 2. If slip forming is used, submit shop drawings for approval showing 3" side cover with the Typical Section dimensions adjusted.
- 3. Begin placing Railing Bars 5T and 5X at the railing end and proceed toward Retaining Wall to avoid conflict with guardrail bolt holes. If required, adjustments to the bar spacing for Bars 5T and 5X shall be made immediately adjacent to Begin or End Retaining Wall. Cut, shift and rotate Bars 5T and 5X as required to maintain cover in End Transition. 42" VERTICAL SHAPE

**REVISION** 11/01/18

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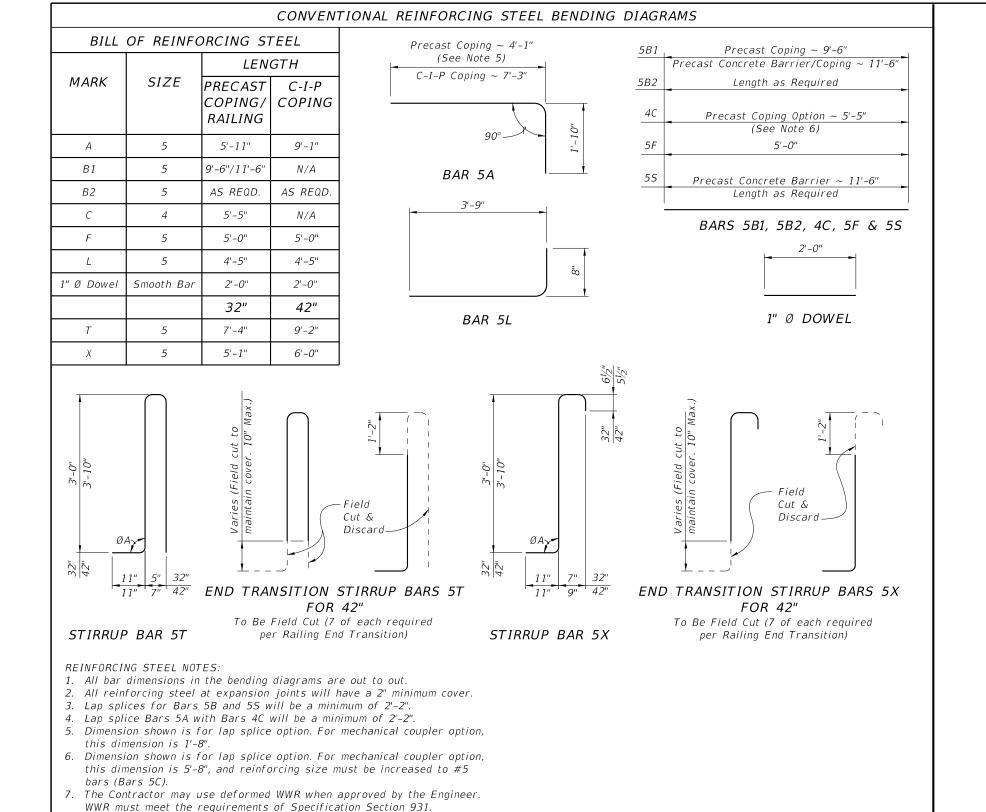
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BUILDUP FOR STEPPED MSE WALL PANELS AND C-I-P COPING

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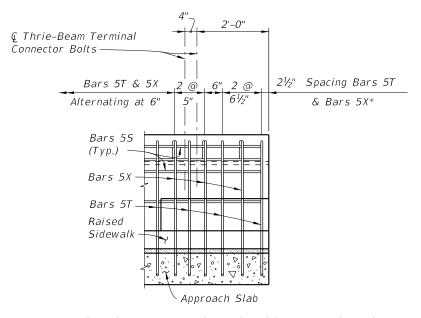
(Steel Dowels)



⅓" V-Groove (Typ.) /// 3/4" Preformed Expansion / Joint Filler / PRECAST COPING 1/3" V-Groove (Typ.) ¾" Preformed Expansion /Joint Filler / C-I-P COPING

## DETAIL "B"

(Showing Locations of ½" V-Grooves and 3/4" Preformed Expansion Joint Filler)



END TRANSITION ELEVATION FOR 32" VERTICAL SHAPE (Guardrail Not Shown For Clarity)

| ESTIMATED CONCRETE BARRIER<br>QUANTITIES |       |             |       |  |
|--|-------|-------------|-------|--|
|  |       | QUANTITY    |       |  |
| ITEM                                     | UNIT  | <i>32</i> " | 42"   |  |
| Concrete                                 | CY/LF | 0.095       | 0.145 |  |
| Reinforcing Steel                        | LB/LF | 23.38       | 28.33 |  |
|  |       |             | ·     |  |

VERTICAL SHAPE

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\* See Sheet 3 Note 3.

DESCRIPTION:



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