SECTION A-A
SECTION THRU JUNCTION SLAB, BARRIER WALL INLET AND RETAINING WALL (TYPE 1 Junction Slab Shown, TYPE 2 Similar)

NOTES

1. Work this Index with Index 521-510 – Concrete Barrier/Noise Wall (8"-0")
2. Concrete will be in accordance with Specification Section 346.
3. Construct 3" Expansion Joints and face of coping plumb, and either perpendicular or radial to Gutter Line. Provide at 90'-0" maximum intervals as shown.
4. Dowel Load Transfer Devices will be hot-dip galvanized ASTM A36 smooth round bars or GFRP smooth round bars with a minimum shear strength of 22 ksi in accordance with ASTM D7617. Install Dowel Load Transfer Devices in accordance with Specification Section 350.
5. Shear Keys in Junction Slab are required when GFRP bars are used for Dowel Transfer Devices and are optional with steel dowel bars. Tongue Slope on Shear Key must be constant and between 45° and 60° from horizontal.
6. Construct 9" V-Grooves in concrete and provide at 30'-0" maximum intervals as shown. Space V-Grooves equally between Expansion Joints and/or Begin or End Junction Slab. V-Groove locations are to coincide with Expansion Joints.
7. Shear Keys in Junction Slab are required when GFRP bars are used for Dowel Transfer Devices and are optional with steel dowel bars. Tongue Slope on Shear Key must be constant and between 45° and 60° from horizontal.
8. Construct 9" V-Grooves in concrete and provide at 30'-0" maximum intervals as shown. Space V-Grooves equally between Expansion Joints and/or Begin or End Junction Slab. V-Groove locations are to coincide with Expansion Joints.
9. Actual location & width vary depending on type of Retaining Wall used.
10. Field cut Bars SA and SB2 as required to maintain minimum cover for skewed Approach Slab.
11. Spacing shown is along the Gutter Line.

CROSS REFERENCE:
For Section B-B and Detail "A", see Sheet 2.
REINFORCING STEEL BENDING DIAGRAMS

REINFORCING STEEL NOTES:
1. All bar dimensions in the bending diagrams are out to out.
2. All reinforcing steel at the open joints will have a 2" minimum cover.
3. Lap splices for Bars 5B will be a minimum of 2'-2".
4. The Contractor may use Deformed WWR when approved by the Engineer. Deformed WWR must meet the requirements of Specification Section 931.

BILL OF REINFORCING STEEL

<table>
<thead>
<tr>
<th>MARK</th>
<th>SIZE</th>
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<th>TYPE 2</th>
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<tr>
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<tr>
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Dowel 1" Ø Smooth Bar
2'-0" 2'-0"

BAR 5B3 (TYPE 1 only)

BAR 453
BAR 5U1
BAR 5U2

6'-4" (TYPE 1) or 7'-4" (TYPE 2)

5'-0" (TYPE 1) or 6'-0" (TYPE 2)

1'-0"
2'-0"

6'-2" (TYPE 1)
7'-2" (TYPE 2)

Top of Junction Slab (Const. Joint Regd.)
Retaining Wall (Varies)
(See Note 3)

Organic Felt bond breaker
1" x 1" 2

NOTES:
1. Match Cross Slope of Travel Lane or Shoulder.
2. Vary Junction Slab slope based on roadway cross slope to maintain a minimum 6" asphalt depth at the edge of the slab as shown.
3. Actual width varies depending on type of Retaining Wall used.
4. See Index 521-510 for Bars 5V and Bars 5S1.
5. For Rigid Pavement (Concrete), Junction Slab may be thickened to match finished grade.
7. If slip forming is used, submit shop drawings for approval showing Expansion Joint support details and 2½" side cover with adjusted Typical Section dimensions.

REVISION DESCRIPTION:
FY 2020-21

INDEX SHEET

CONCRETE BARRIER/NOISE WALL (8'-0") JUNCTION SLAB

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