Provision of one (1) 3/8" Ø vent hole on two (2) opposite faces of pile.

5. Pile Splices:
A. Epoxy: Type AB Epoxy Compound or Mortar must meet the requirements of Specification Section 926.
   a. Use Type AB Epoxy Bonding Compound or Epoxy Mortar, as recommended by the manufacturer, to form the joint between pile sections.
   b. Use a Type AB Epoxy Bonding Compound as a bonding agent on internal pile surfaces.

6. Mark piles at the pick-up points to indicate the proper points for attaching handling lines.

### Table of Maximum Pile Pick-up and Support Lengths

<table>
<thead>
<tr>
<th>Maximum Pile Length (Feet)</th>
<th>Required Storage and Transportation Detail</th>
<th>Pick-Up Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>119</td>
<td>2, 3, or 4 point</td>
<td>1 Point</td>
</tr>
<tr>
<td>170</td>
<td>2, 3, or 4 point</td>
<td>2 Point</td>
</tr>
</tbody>
</table>

### Notes
1. Work this Index with the Pile Data Table in the Structures Plans.
2. Concrete:
   A. Piles: Class V (Special).
   B. Splice: Class IV.
   C. Silica Fume: See "GENERAL NOTES" in Structures Plans for locations where the use of silica fume, metakaolin or ultra-fine fly ash is required.
3. Concrete Strength at time of prestress transfer:
   A. Piles: 6,000 psi minimum.
4. Carbon-Steel Reinforcing:
   A. Bars: Meet the requirements of Specification Section 415.
   B. Prestressing Strands: Meet the requirements of Specification Section 933.
   C. Tendons: Two seven-wire 3/8" dia. (Special) Grade 270, low-relaxation strands tensioned to 33.8 kips.
   D. Protect all carbon-steel strands permanently exposed to the environment and not embedded under final conditions in accordance with Specification Section 450.
   E. Spiral Ties:
      a. One half turn is required for carbon-steel spiral splice.
      b. One full turn is required at the pile head and tip.
5. Pile Splices:
   A. Epoxy: Type AB Epoxy Compound or Mortar must meet the requirements of Specification Section 926.
      a. Use Type AB Epoxy Bonding Compound or Epoxy Mortar, as recommended by the manufacturer, to form the joint between pile sections.
      b. Use a Type AB Epoxy Bonding Compound as a bonding agent on internal pile surfaces.
   B. Driving: Resume pile driving after splice concrete reaches a minimum strength of 5,500 psi.
**PRECAST/POST-TENSIONED CONCRETE CYLINDER PILE**

**SECTION A-A**

1. **4" Longitudinal Spacers** (No. 3 Bars or W20 wire) for Spiral Ties @ Equal Spaces
2. 24 - No. 11 Bars @ Equal Spaces
3. 3 1/2" Min. Cover
4. Full epoxy compound joint around cylinder pile wall only (See Detail "A")
5. 24 - 1 1/2" Ø Formed Holes for Tendons @ Equal Spaces

**SECTION B-B**

1. **4" Longitudinal Spacer Bars** (No. 3 Bars or W20 wire) for Spiral Ties @ Equal Spaces
2. 24 - No. 11 Bars @ Equal Spaces
3. 1" Ø Void, Lap Splice
4. 3 1/2" Min. Cover
5. Full epoxy compound joint

**DETAIL "A"**

- Roughen inside surface of 54" Ø Pile to 1/8" amplitude for Spliced Pile Section
- Closed No. 4 Bars or W20 Wire Ties @ 1'-0" ± (Typ.)
- Full Epoxy Compound Joint around cylinder pile wall only (See Detail "A")
- 24 - No. 11 Bars
- 1 1/2" Ø Formed Hole (1 tendon per hole; 2 - 1/2" Ø (Special) strands per tendon shown as *; Grout per Specification 938)

**For Spun Cast Cylinder Piles, the following requirements for concrete cover apply:**

1. Slightly or Moderately Aggressive Environments: The concrete cover may be reduced to 2 inches.
2. Extremely Aggressive Environments: The concrete cover may be reduced to 2 inches as long as the concrete has a documented chloride ion penetration apparent diffusion coefficient with a mean value of 0.005 in² per year or less; otherwise, a 3-inch concrete cover is required.