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 flyash 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 \( \frac{3}{8} \)" 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 a 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 3,500 psi.

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

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**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>

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**NOTES**
REV NO. SHEET NO. INDEX NO. DESCRIPTION:
1. Slightly/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 apparent diffusion coefficient with a mean value of 0.005 in²/year or less; otherwise, a 3-inch concrete cover is required.

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

- 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 apparent diffusion coefficient with a mean value of 0.005 in²/year or less; otherwise, a 3-inch concrete cover is required.

SECTION A-A
- 24 – No. 11 Bars
- 24 – 1½" Ø Formed Holes for Tendons @ Equal Spaces
- 24 – ½" Ø Formed Holes (1 tendon per hole; 2 – ½" Ø (Special) strands per tendon shown as (*), Grout per Specification 938)

SECTION B-B
- 1½" Ø Formed Hole (1 tendon per hole; 2 – ½" Ø (Special) strands per tendon shown as (*), Grout per Specification 938)

DETAIL "A"
- Full Epoxy Compound Joint around cylinder pile wall only (See Detail "A")