Spiral Tie
Spacing

2'-0" Pitch

4'-0" Minimum Bottom Section
8'-0" Minimum Intermediate Sections as required
16'-0" Minimum Top Section

ELEVATION

NOTES

DESIGN SPECIFICATIONS:

DESIGN PARAMETERS:
Pre-stressed Cylinder Concrete Section: 1,000 psf minimum uniform compression after pre-stress losses without loads.
Pick-up, Storage, and Transportation: 0.0 psf tension w/0.5 times pile self weight.

SPRING TIES:
One full wrap of spirals is required at both the head and toe of pile. One half turn required for spiral splices.

CONCRETE CLASS:
Concrete for piles shall be Class V (Special). Concrete for pile splices shall be Class IV. See "GENERAL NOTES" in Structures Plans for any specific locations where the use of Silica Fume is required.

CONCRETE STRENGTH:
The concrete strength shall be 6,000 psf minimum at time of transfer of the Prestressing Force.

PILE BONDING MATERIAL:
The materials to form the joint between pile sections shall be a Type A Epoxi Compound in accordance with Section S26 of the Specifications. The bonding agent used on internal pile surfaces shall be a Type A Epoxi Compound in accordance with Section S26 of the Specifications. Epoxi Compounds used shall be contained on the Qualified Products List (QPL).

Use Epoxi Bonding Compound or Epoxi Mortar as recommended by the Manufacturer. Use Epoxi Mortar only use same or other filler material supplied by the manufacturer and in the proportions recommended.

PICK-UP POINTS:
Piles shall be marked at the pick-up points to indicate proper points for attaching handling lines.

REINFORCING STEEL:
All reinforcing steel shall be Grade 60, except that smooth steel wire (M1) spirals and longitudinal spacers and W20A hoops shall be manufactured from cold drawn steel wire meeting the requirements of ASTM A82.

PRESTRESSING STEEL:
Prestressing tendons shall be made up of seven-wire strands. Prestressing strands shall be 5/8" (Spec.), Grade 270, low relaxation, at 35 ksi.

PILE DRIVING AFTER SPACING:
Pile splices shall be at a minimum strength of 5500 psi before driving is resumed.

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>121</td>
<td>2, 3, or 4 point</td>
<td>2 Point</td>
</tr>
</tbody>
</table>

2008 FDOT Design Standards

64" PRECAST/POST-TENSIONED CONCRETE CYLINDER PILE