### Design Specifications

- **Florida Department of Transportation (FDOT) “Structures Design Guidelines”, Current Edition.**
- **American Association of State Highway and Transportation Officials (AASHTO) “LRFD Bridge Design Specifications”, Current Edition.**

**Spiral Ties:**
- One full wrap of spirals is required at both the head and tip of pile. One half turn required for spiral splices.

**Concrete Class:**
- Piles shall be marked at the pick-up points to indicate proper points for attaching handling lines.
- MINIMIZING STEEL:
  - All reinforcing steel shall be Grade 60, except that smooth steel wire (W1) spiral ties and W20 ties shall be manufactured from cold drawn steel wire meeting the requirements of ASTM A615.
- PRESTRESSING STEEL:
  - Prestressing steel shall be 0.6” seven-wire strand. Grade 270 low relaxation, at 44.0 kips.

### Pile Driving After Splicing
- Pile splices shall reach 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>122</td>
<td>2, 3, or 4 point</td>
<td>1 Point</td>
</tr>
<tr>
<td>174</td>
<td>2, 3, or 4 point</td>
<td>2 Point</td>
</tr>
</tbody>
</table>
DRIVABLE UNFORESEEN FIELD SPLICE DETAIL
(Cast in Place Plug)

Concrete Seal

1'-6" Ø Void, open top and bottom to allow through venting of sections

Roughen inside surface of 60" Ø Pile to 1/4" 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 @ Equal Spaces

Clean inside surface of 60" Ø Pile with a high pressure water blast (3000 psi Min.) and apply bonding agent for Driven Prestressed Pile

Place Plug (Cast in Place Plug)

Inside Pile Wall

Full epoxy compound joint

Temporary Blocking Form to retain epoxy compound

Outside Pile Wall

Form to retain epoxy compound

SECTION A-A

SECTION B-B