ELEVATION

NOTES

1. Work this Index with the Pile Data Table in the Structures Plans.
2. Concrete:
   A. Piles: Class V (Special)
   B. Splice Collar: Class IV
   C. Silica Fume: See "GENERAL NOTES" in the 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: 4,000 psi minimum.
4. Carbon-Steel Reinforcing:
   A. Bars: Meet the requirements of Specification Section 415
   B. Prestressing Strands: Use 0.6 dia. carbon-steel, Grade 270, low-relaxation strand stressed to 44.0 kips that meets the requirements of Specification Section 933.
   C. Protect all carbon-steel strands permanently exposed to the environment and not embedded under final conditions in accordance with Specification Section 450.
5. Spiral Ties:
   A. One half turn is required for carbon-steel spiral splices
   B. One full turn is required at the head and tip of each pile
6. Pile Splices:
   A. Epoxy: Type AB Epoxy Compound or Epoxy 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. Splices: Resume pile driving after the splice concrete reaches a minimum strength of 5,500 psi.
7. 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>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>

...
Concrete Seal

2'-0" M in. Cover Drive'n Prestressed Pile

10'-6" 24 ~ No. 11 Bars
Closed No. 4 Bars or W20 Wire Ties @ 1'-0" ± (Typ.)

Spliced Prestressed Pile Section

10'-6" 1'-0" Ø Void, open top and bottom to allow through venting of sections
Roughen inside surface of 60" Ø Pile to ¼" amplitude for Spliced Pile Section
Full Epoxy Compound Joint around cylinder pile wall only (See Detail "A")
Clean inside surface of 60" Ø Pile with a high pressure water blast (3000 psi Min.) and apply bonding agent for Driven Prestressed Pile

3" Min. Cover (Typ.)

60" Ø 36 ~ 0.6" Ø Strands @ Equal Spaces
W11 Wire Spiral Ties

SECTION A-A

SECTION B-B

60" Ø

1'-0" Ø Void

2" Min. Cover (Typ.)

2'-0"

A

B

A

B

B

B

1'-0" Ø Void

2" Min. Cover (Typ.)

1'-0" Ø Void

2" Min. Cover (Typ.)

36 ~ 0.6" Ø Strands @ Equal Spaces
W11 Wire Spiral Ties

CAST IN PLACE PLUG

Form to retain epoxy compound

Gasket

Temporary Blocking Form to retain epoxy compound

Inside Pile Wall

Full epoxy compound joint

45° Ø Void

DETAIL "A"

DRIVABLE UNFORESEEN FIELD SPlice DETAIL
(Cast in Place Plug)