PRESTRESSED CONCRETE PILE NOTES:

1. Work this Index with the Square Prestressed Concrete Pile Splices (Index 455-102), the Prestressed Concrete Pile Standards (Index 455-112, 455-114, 455-116, 455-124, 455-130, and the Pile Data Table in the Structures Plans.

2. Concrete:
   A. Piles: Class V (Special)
   B. Silica Fume: See “GENERAL NOTES” in the Structures Plans for locations where the use of silica fume, metakaolin or ultra-fine flyash is required for options using stainless steel strand and reinforcing.

3. Concrete strength at time of prestress transfer:
   A. Piles: 4,000 psi minimum.

4. Reinforcing:
   A. Bars:
      a. Stainless Steel: Meet the requirements of Specification Section 931 for Type 304, Grade 75
      b. Carbon FRP: Meet the requirements of Specification Section 932
   B. Prestressing Strands:
      a. Stainless Steel: Seven-wire HSSS, UNS S32205 (Type 2205) or UNS S31803 strand, meeting the requirements of Specification Section 933
      b. Carbon FRP: Meet the requirements of Specification Section 933

5. Spiral Ties:
   A. Tie each wrap of the spiral strand to a minimum of two corner strands.
   B. One full turn required for spiral splices.

6. Pile Splices: Fill dowel holes and form the joint between pile sections with a Type AB Epoxy Compound in accordance with Specification Section 926. Use an Epoxy Bonding Compound or an Epoxy Mortar as recommended by the Manufacturer.

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TABLE OF MAXIMUM PILE PICK-UP AND SUPPORT LENGTHS

<table>
<thead>
<tr>
<th>D = Square Pile Size (inches)</th>
<th>Required Storage and Transportation Detail</th>
<th>Pick-Up Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>2, 3, or 4 point</td>
<td>1 Point</td>
</tr>
<tr>
<td>14</td>
<td>2, 3, or 4 point</td>
<td>2 Point</td>
</tr>
<tr>
<td>18</td>
<td></td>
<td>3 or 4 point</td>
</tr>
<tr>
<td>24</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Maximum Pile Length (Feet)

| 48                            | 2, 3, or 4 point                           | 1 Point        |
| 69                            | 2, 3, or 4 point                           | 2 Point        |
| 99                            | 3 or 4 point                               |                |

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TYPICAL PILE SHAPE

FOR MOLD FORMS

DETAILED SHOWING TYPICAL COVER

SQUARE CFRP & SS PRESTRESSED CONCRETE PILES

TYPICAL DETAILS & NOTES

INDEX 455-101

FY 2018-19

STANDARD PLANS