**2.1/4"x3" straps with 1/4"x2 1/2" Neoprene pad adhered to strap. 1/4"x6" Neoprene pad adhered to saddle.**

**3/4" anchor bolts. ASTM A307 or A36.**

**3 Circular Hoops.**

#3 stirrups @ 6", typ.

#4 stirrups typ.

4 #4, typ.

4 #7.

Snug fit.

HP 12x53 steel pile.

FOR PILE SPlice, see DWG S-19.

**NOTES:**

1. Pile supported foundation design shown on this detail is based upon the following parameters:

- Minimum capacity of HP 12x53 pile is 30 tons
- Concrete compressive strength = 4000 PSI
- Grade 60 reinforcing steel
- Maximum stream velocity = 10 ft/sec

If field conditions require any deviation from these parameters, foundation design shall be reviewed by the project engineer.

2. Length of piles shall be as required to develop 30 ton capacity by either end bearing, friction or a combination of end bearing and friction. As a minimum, piles shall be driven at least 15 feet into undisturbed soil.

3. Anchor bolts and straps shall be stainless steel.

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CITY OF RALEIGH

DEPARTMENT OF PUBLIC UTILITIES

AERIAL PIPE CROSSING

PILE CAP DETAIL

<table>
<thead>
<tr>
<th>CASING PIPE DIAMETER (IN.)</th>
<th>TOTAL WIDTH &quot;A&quot; (FT.)</th>
<th>PILE SPACING &quot;B&quot; (FT.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;= 36</td>
<td>6'-0&quot;</td>
<td>3'-0&quot;</td>
</tr>
<tr>
<td>38-42</td>
<td>6'-6&quot;</td>
<td>3'-6&quot;</td>
</tr>
<tr>
<td>45-51</td>
<td>7'-3&quot;</td>
<td>4'-3&quot;</td>
</tr>
<tr>
<td>54-60</td>
<td>8'-0&quot;</td>
<td>5'-0&quot;</td>
</tr>
</tbody>
</table>