

**PRESTRESSED CONCRETE PILE NOTES:**

**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:**

Each wrap of spirals shall be tied to at least two corner strands. One turn required for spiral splices.

**CONCRETE CLASS:**

Concrete for all CFRP piles shall be Class V (Special).

See "GENERAL NOTES" in Structures Plans for any specific locations where the use of Silica Fume is required.

**CONCRETE STRENGTH:**

The pile cylinder strength shall be 6,000 psi minimum at 28 days and 4,000 psi minimum at time of transfer of the Prestressing Force.

**SPLICE BONDING MATERIAL:**

The material to fill dowel holes and form the joint between pile sections shall be a Type B Epoxy Compound in accordance with Specification Section 926 and shall be contained on the Approved Products List (APL). Use Epoxy Bonding Compound or Epoxy Mortar as recommended by the Manufacturer. For Epoxy Mortar only use sand 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 BARS:**

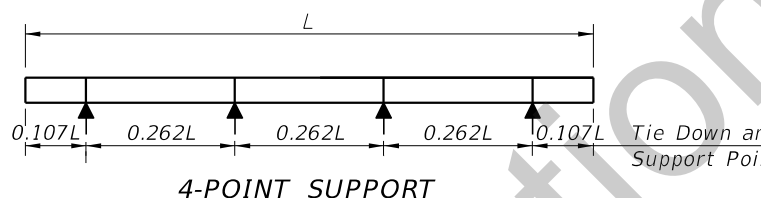
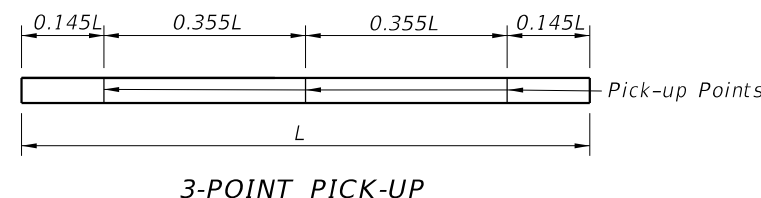
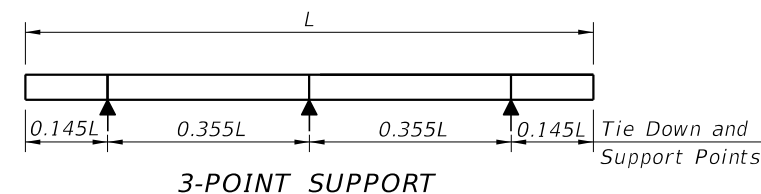
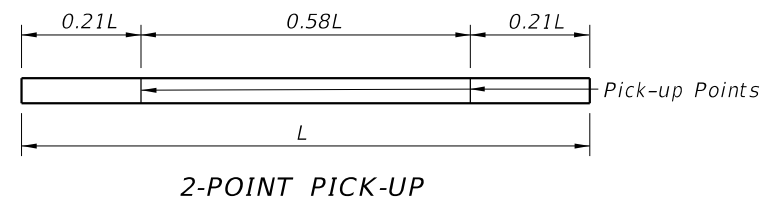
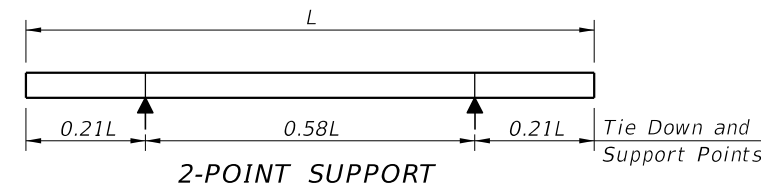
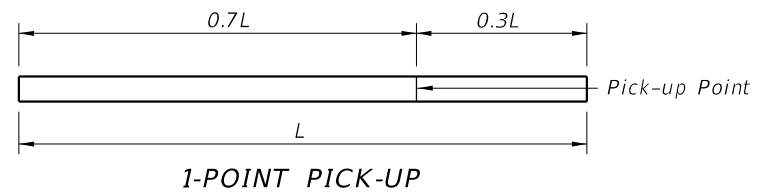
All reinforcing bars shall be CFRP meeting the requirements of Developmental Specification Sections 415 and 932.

**PRESTRESSING STRAND:**

Prestressing strand shall be CFRP Strand meeting the requirements of Developmental Specification Sections 450 and 933.

**PROTECTION OF EXPOSED STRANDS:**

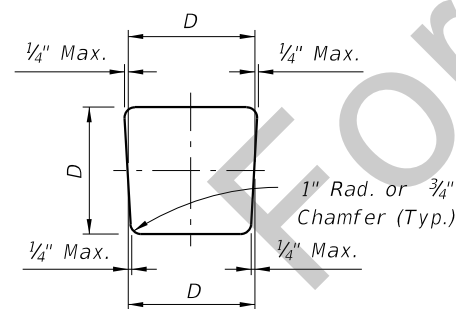
For all pile ends exposed to the environment and not embedded under final conditions, protect strands in accordance with Developmental Specification Section 450.



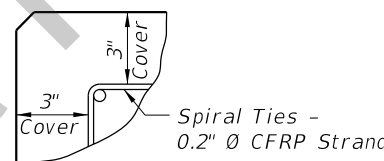
**3-POINT PICK-UP  
PILE PICK-UP DETAILS**

**4-POINT SUPPORT  
STORAGE AND TRANSPORTATION SUPPORT DETAILS**

TABLE OF MAXIMUM PILE PICK-UP AND SUPPORT LENGTHS								
	D = Square Pile Size (inches)						Required Storage and Transportation Detail	Pick-Up Detail
	12	14	18	20	24	30		
Maximum Pile Length (Feet)	48	52	59	62	68	87	2, 3, or 4 point	1 Point
	69	75	85	89	98	124	2, 3, or 4 point	2 Point
	99	107	121	128	140	178	3 or 4 point	3 Point



**TYPICAL PILE SHAPE FOR MOLD FORMS**



**DETAIL SHOWING TYPICAL COVER**

SDATES STIMES

LAST REVISION 03/04/16	DESCRIPTION:
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**NOTES AND DETAILS FOR SQUARE CFRP PRESTRESSED CONCRETE PILES**

INDEX NO.  
**D22600**

SHEET NO.  
**1 of 1**