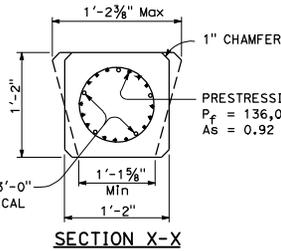
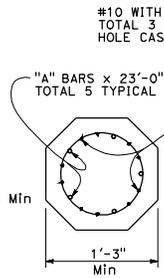


**SECTION W-W**  
PP = Steel pipe pile

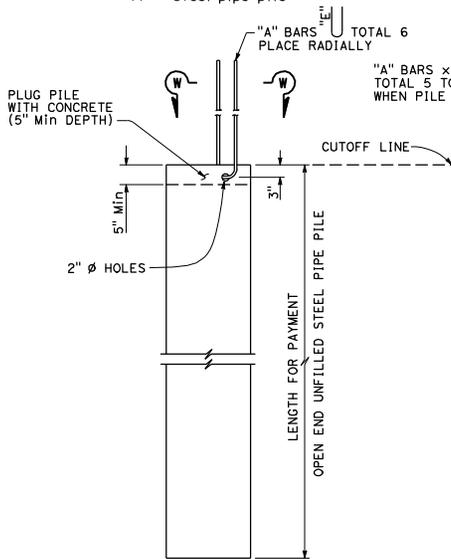


**SECTION X-X**

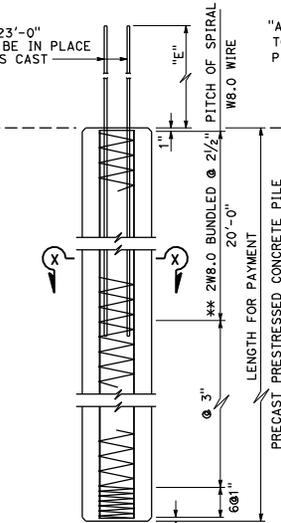


**SECTION Y-Y**

**ALTERNATIVE PILE ANCHOR FOR PRESTRESSED PILE**

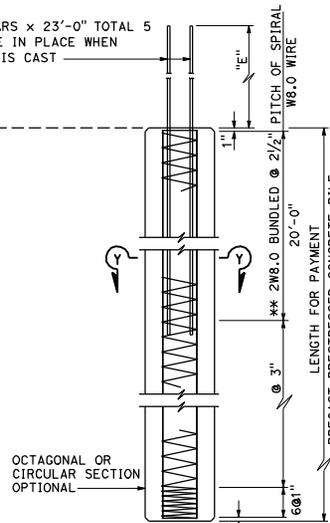


**ALTERNATIVE "W"**



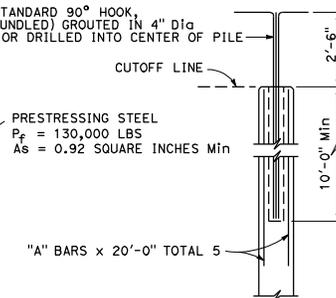
\*\* W11.0 @ 1 3/4" may be substituted

**ALTERNATIVE "X"**



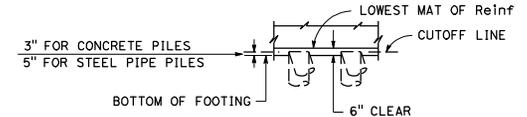
\*\* W11.0 @ 1 3/4" may be substituted

**ALTERNATIVE "Y"**



	REQUIRED NOMINAL RESISTANCE (TENSION) *	
	75 kips OR LESS	GREATER THAN 75 kips
"A" BARS	#6	#8
"E" DIMENSION	1'-8"	2'-8"

\* See Pile Data Table in the Project Plans for Nominal Resistance (Tension) Requirements



**PILE EMBEDMENT**

**DESIGN NOTES:**

**DESIGN CAPACITY**

- Compression = 200 kip (Service state)
- = 400 kip (Nominal axial structural resistance)
- Tension = 80 kip (Service state)
- = 200 kip (Nominal axial structural resistance)

**REINFORCED CONCRETE**

- f'c = 4,000 psi
- fy = 60,000 psi

**PRECAST PRESTRESSED PILES**

- Pf = Prestress Force (After losses)
- Concrete Strength f'c @ 28 days = 7,000 psi
- f'ci @ transfer = 4,000 psi

**STEEL PIPE PILE**

- Fy (minimum yield strength) = 45,000 psi
- Fu (minimum tensile strength) = 66,000 psi

**NOTES:**

- Pile reinforcement extending into footing shall be hooked as required to provide clearance to top of footing. Piles shall be extended only with details shown on the Project Plans.
- Lapped splices in spiral pile reinforcement shall be lapped 80 wire diameters minimum. Spiral pile reinforcement at splices and at ends shall be terminated by a 135° hook with 6" tall hooked around a longitudinal bar or strand.
- At the Contractor's option, alternative steel pipe with at least the diameter and wall thickness shown on these plans may be used. The diameter shall not exceed 1'-6".
- Alternative "W" piles shall not be used for corrosive environments.
- Maximum cut-off length at the top of the Alternative "X" and Alternative "Y" piles is 10'-0".

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**PILE DETAILS CLASS 200**

NO SCALE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER  
*Amir M. Malek*  
No. C62397  
Exp. 9-30-11  
CIVIL  
STATE OF CALIFORNIA

May 20, 2011  
PLANS APPROVAL DATE  
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