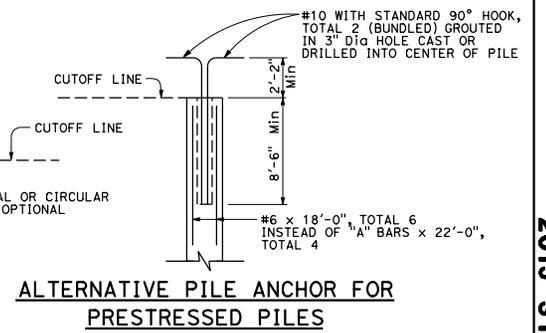
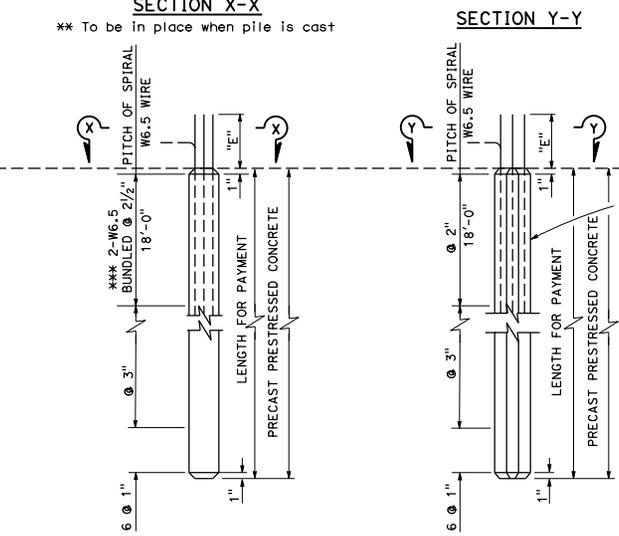
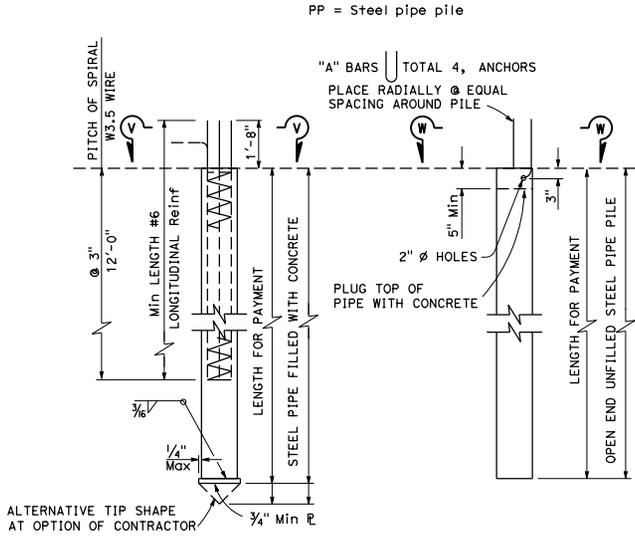


DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS

Amir M. Malek
 REGISTERED CIVIL ENGINEER
 No. C62997
 Exp. 9-30-17
 CIVIL
 STATE OF CALIFORNIA

October 30, 2015
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

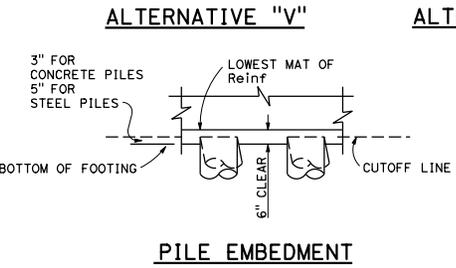


DESIGN NOTES

PRECAST PRESTRESSED PILES
 P_f = Prestressing force (after losses) If section used is larger than the minimum section shown, then " P_f " shall provide 700 psi minimum.
 Concrete Strength: f'_c @ 28 days = 6,000 psi (Alternative "X")
 5,000 psi (Alternative "Y")
 f'_{ci} @ transfer = 4,000 psi

REINFORCED CONCRETE
 f'_c = 4,000 psi
 f_y = 60,000 psi

STEEL PIPE PILE
 F_y (Minimum yield strength) = 45,000 psi
 F_u (Minimum tensile strength) = 66,000 psi



	REQUIRED NOMINAL RESISTANCE (TENSION) *	
	60 kips OR LESS	GREATER THAN 60 kips
"A" BARS	#6	#8
"E" DIMENSION	1'-8"	2'-8"

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

- NOTES:**
- Details are the same for both Class 90 and Class 140 piles unless noted otherwise.
 - 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".
 - Pile reinforcement and steel pile anchor bars extending into a 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.
 - 2" clearance to spiral reinforcement shall be maintained if section used is larger than the minimum section shown.
 - Maximum cutoff length at the top of the Alternative "X" and Alternative "Y" Piles is 10'-0".
 - For longitudinal reinforcement and prestressing for anchor piles and load test piles, see "Load Test Pile Details (2)", Standard Plan B2-10.
- *** W11.0 at 2" may be substituted

STATE OF CALIFORNIA
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PILE DETAILS
CLASS 90 AND CLASS 140
 NO SCALE