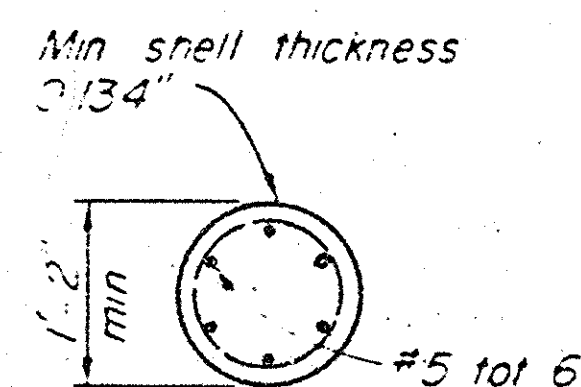
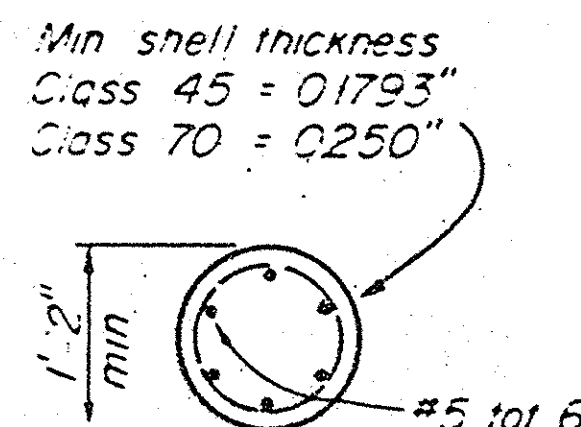
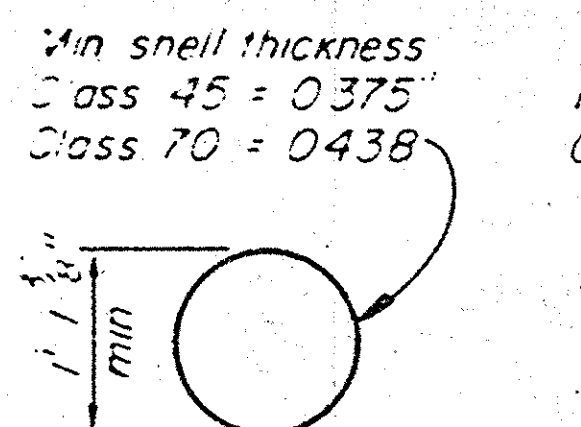




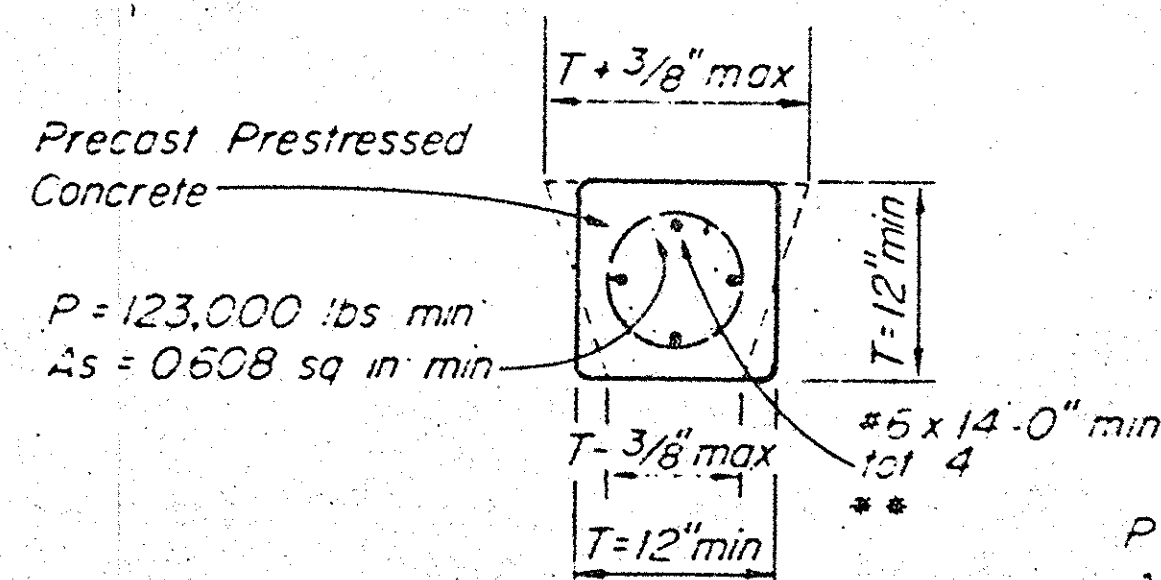
SECTION U-U
(Manurel driven)



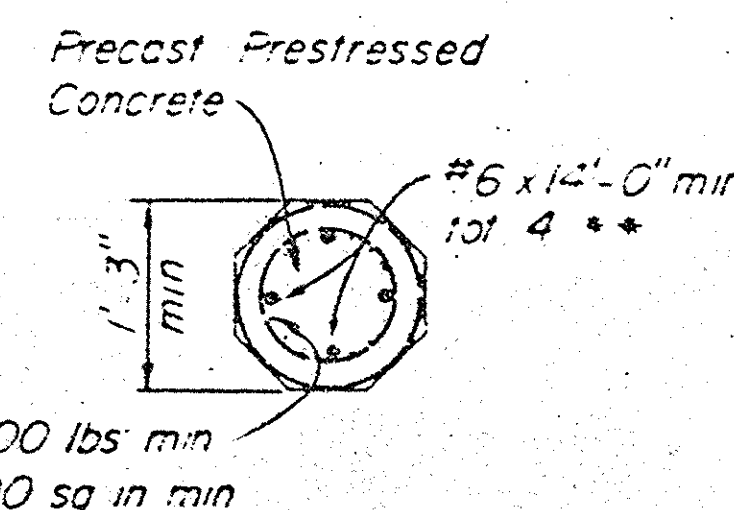
SECTION V-V



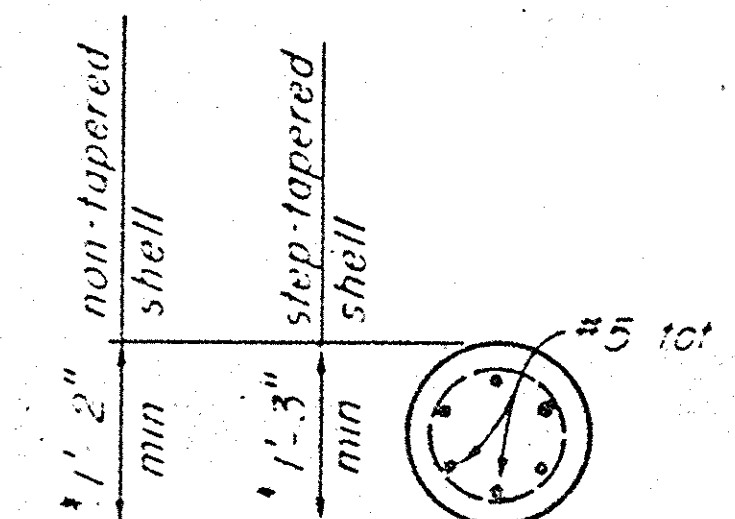
SECTION W-W



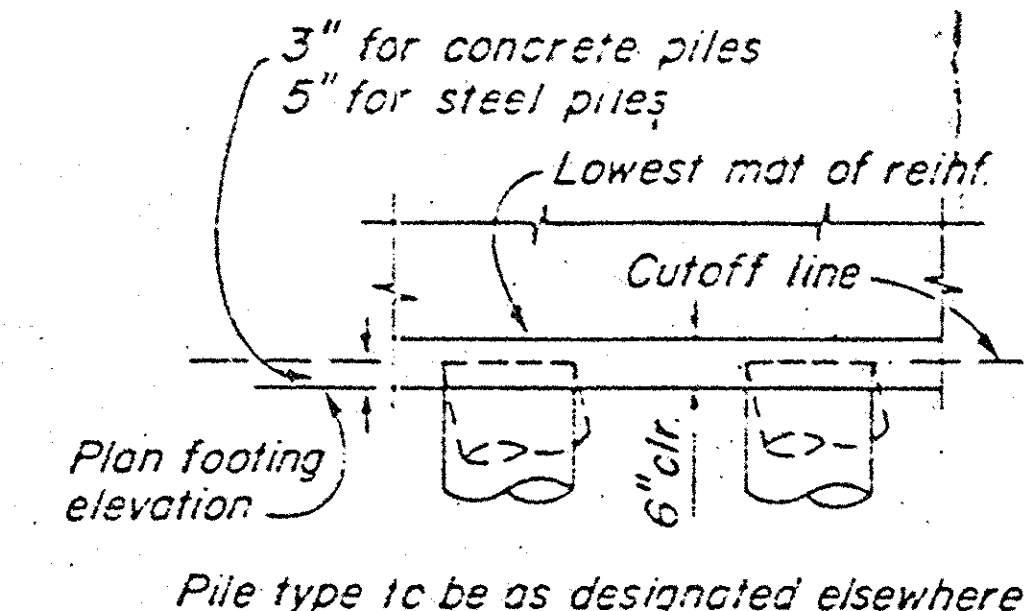
SECTION X-X



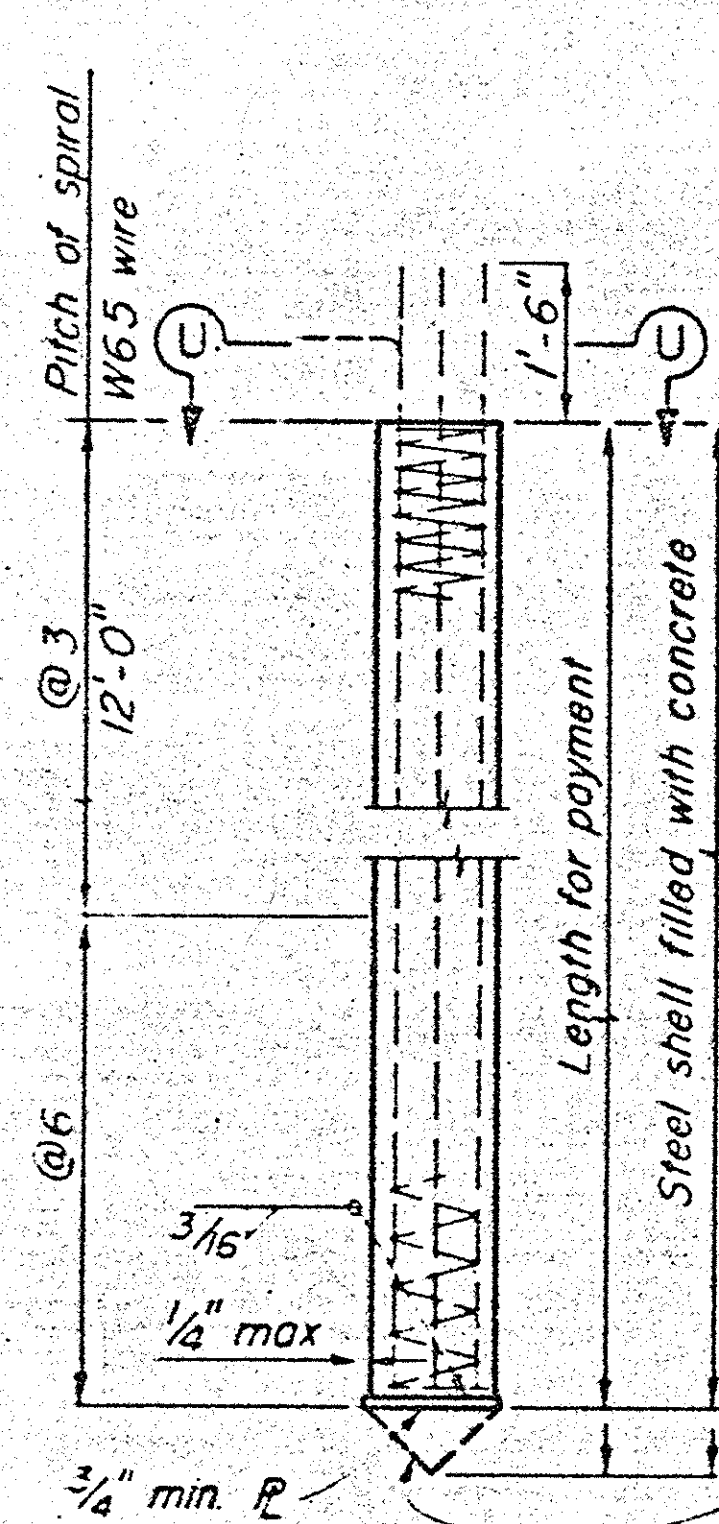
SECTION Y-Y



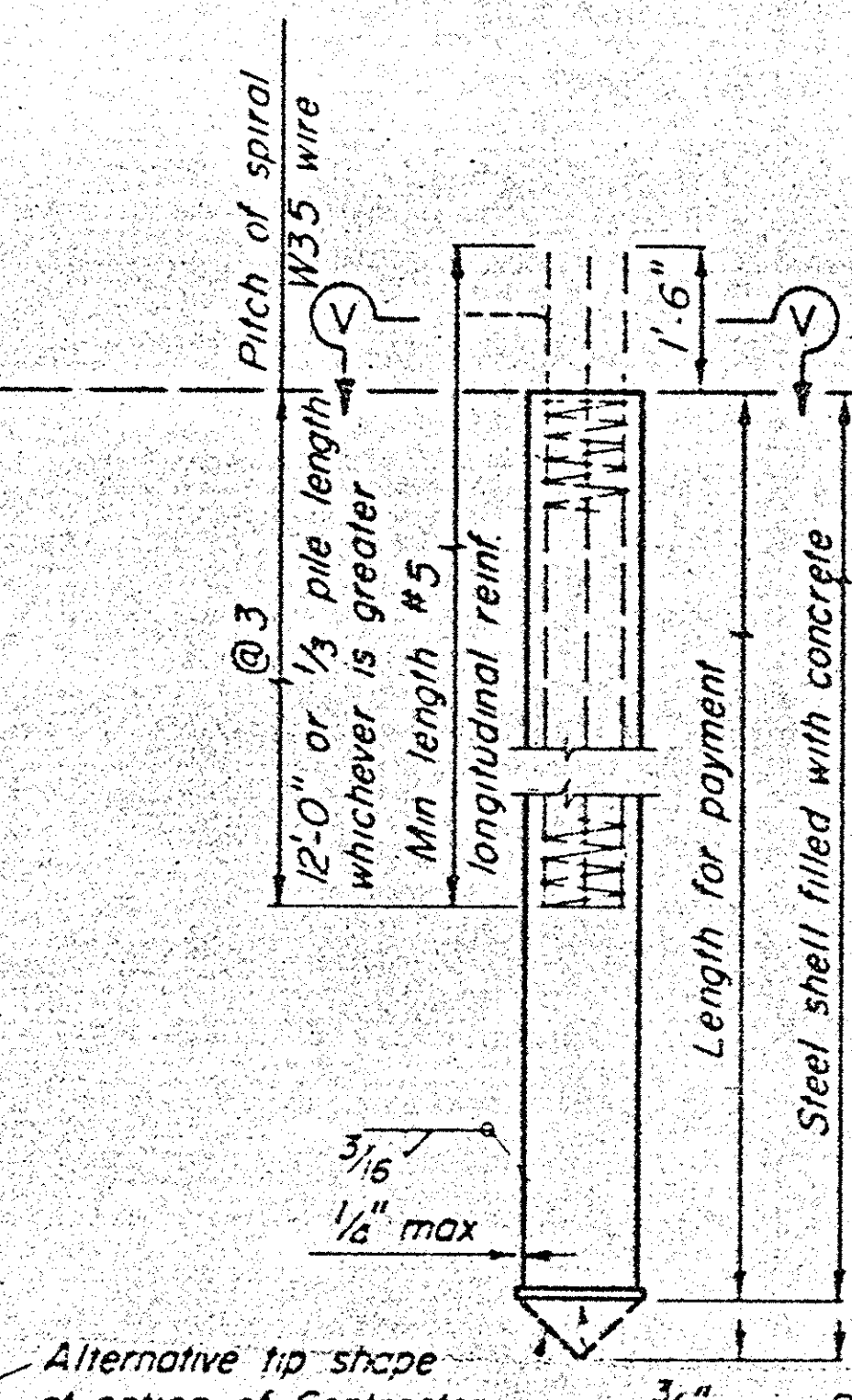
SECTION Z-Z



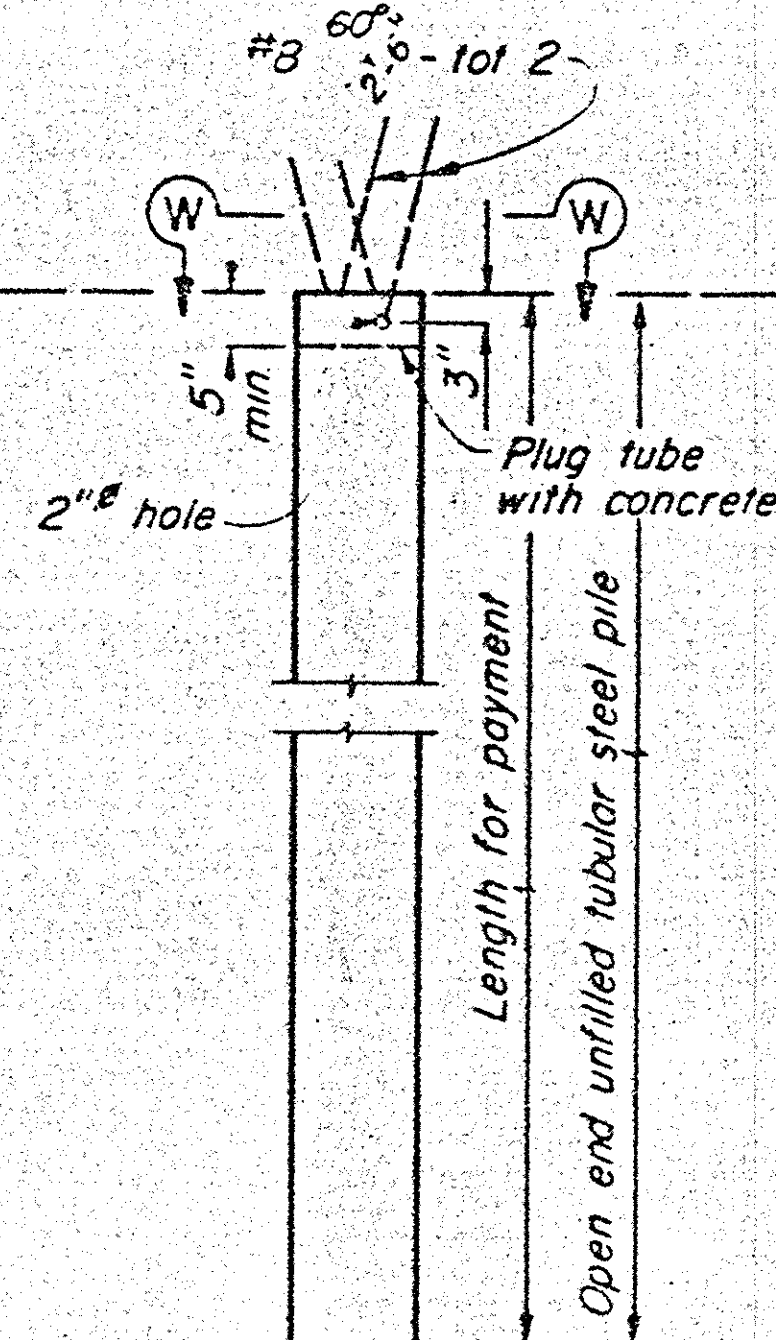
PILE EMBEDMENT



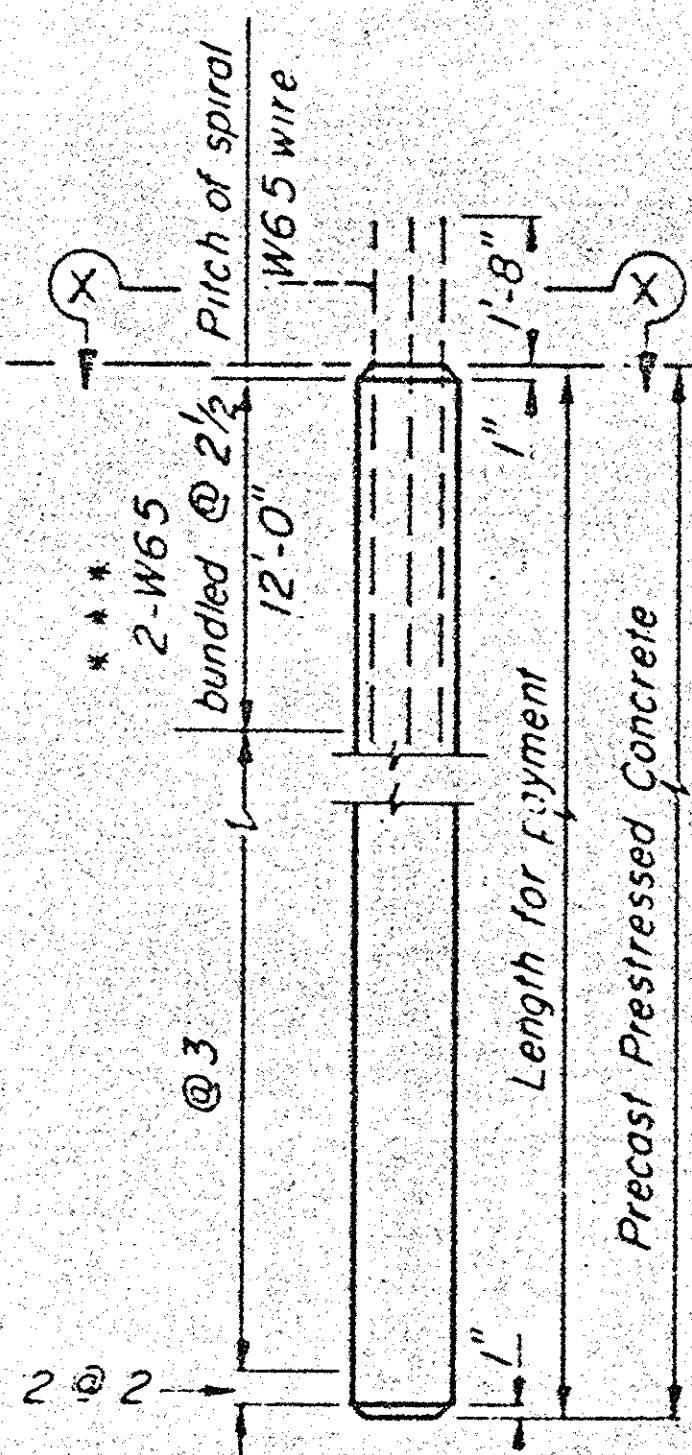
ALTERNATIVE "U"



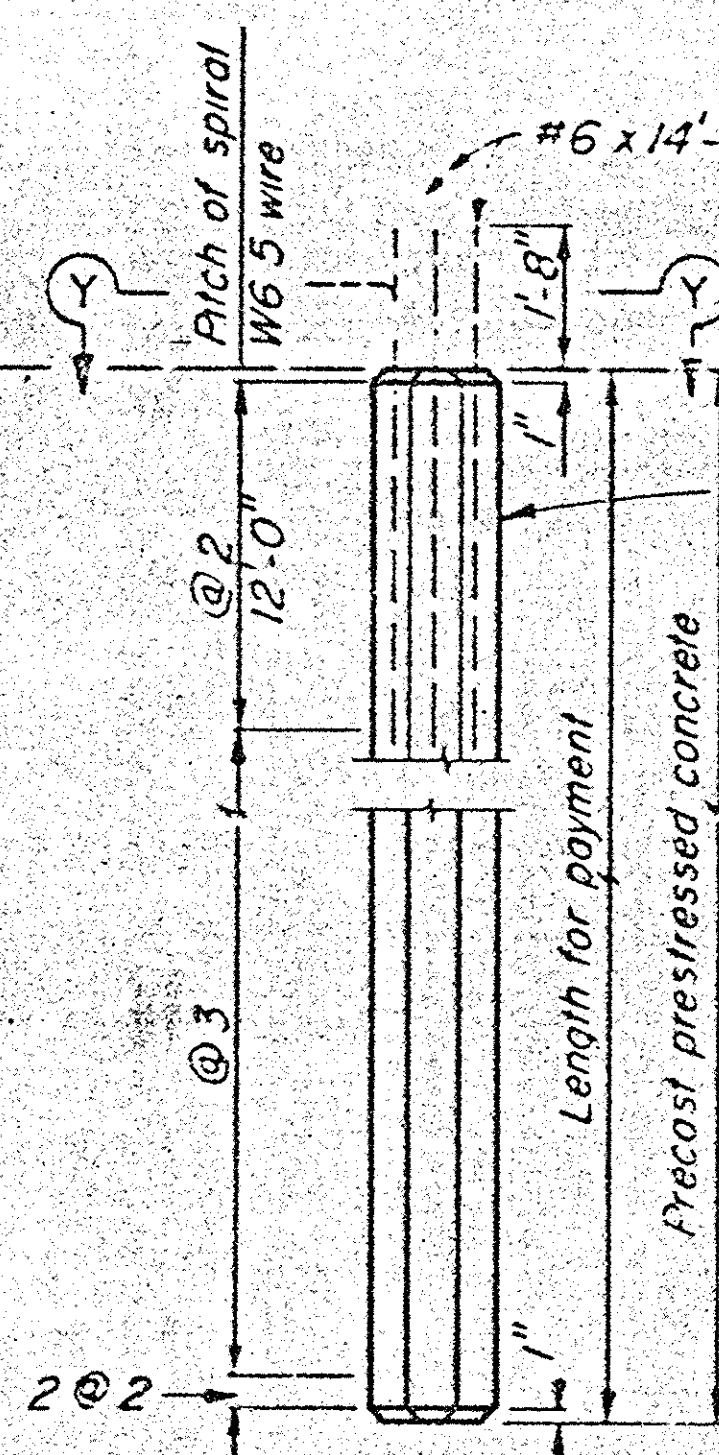
ALTERNATIVE "V"



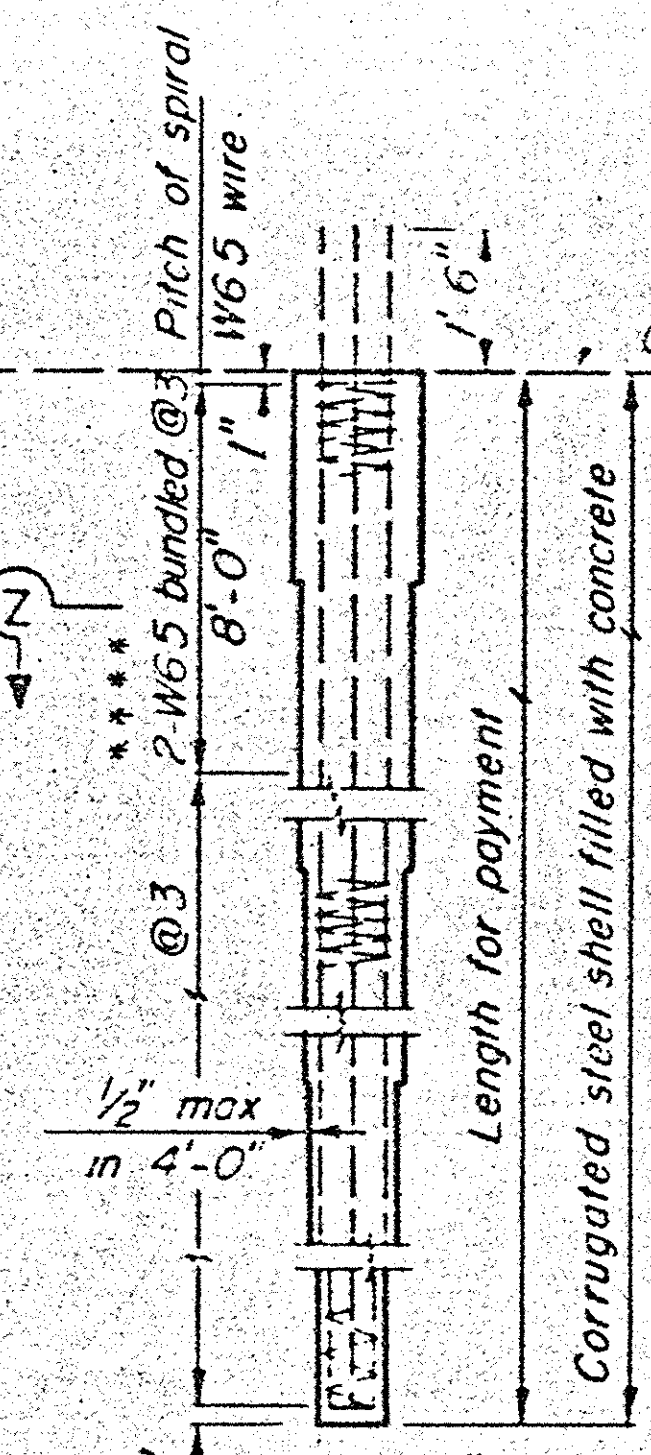
ALTERNATIVE "W"



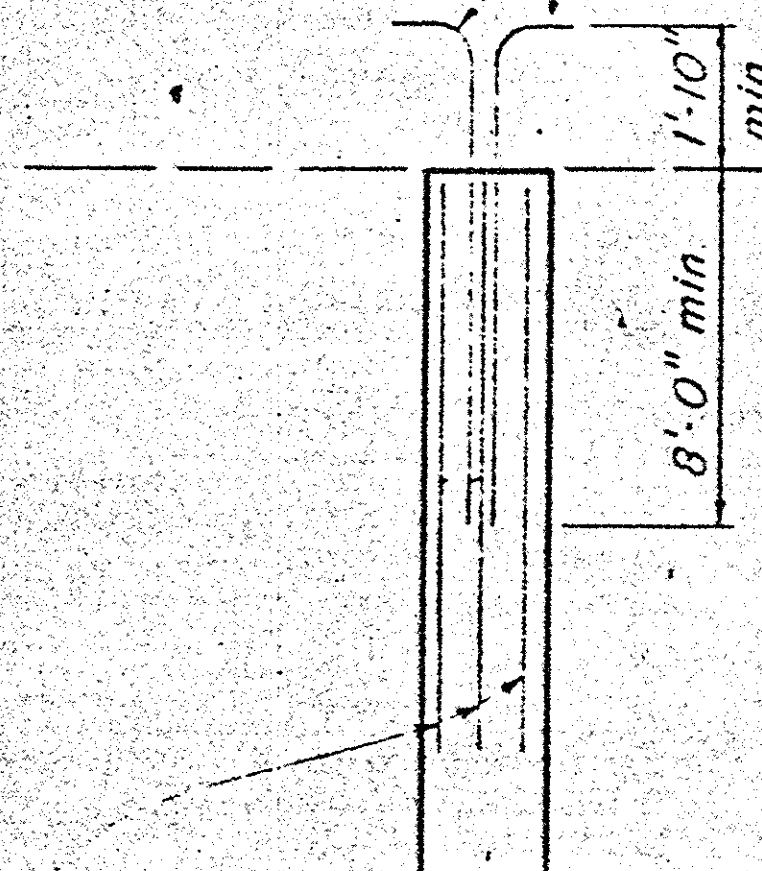
ALTERNATIVE "X"



ALTERNATIVE "Y"



ALTERNATIVE "Z"



ALTERNATIVE PILE
ANCHOR FOR
PRESTRESSED PILES

Notes

Details are the same for both Class 45 and Class 70 piles unless noted otherwise.

A 10" minimum diameter pipe extension (thickness = 0.1798" min for Class 45 and 0.250" min for Class 70) may be used at the tip of Alternative "Z" when taper is 30' or more in length.

Pile reinforcement extending into a footing shall be hooked as required to provide clearance to top of footing. Piles shall be extended only in accordance with details shown elsewhere in these 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" tail hooked around a longitudinal bar or strand.

2" clearance to spiral reinforcement shall be maintained if section used is larger than the minimum section shown.

PRECAST PRESTRESSED PILES

P = Prestressing Force If section used is larger than the min. section shown, then "P" shall provide 860 psi min @ anchorage

As = Minimum area of prestressing steel required

Concrete Strength f'c @ 28 days = 6,000 psi (Alternative "X")
5,000 psi (Alternative "Y")

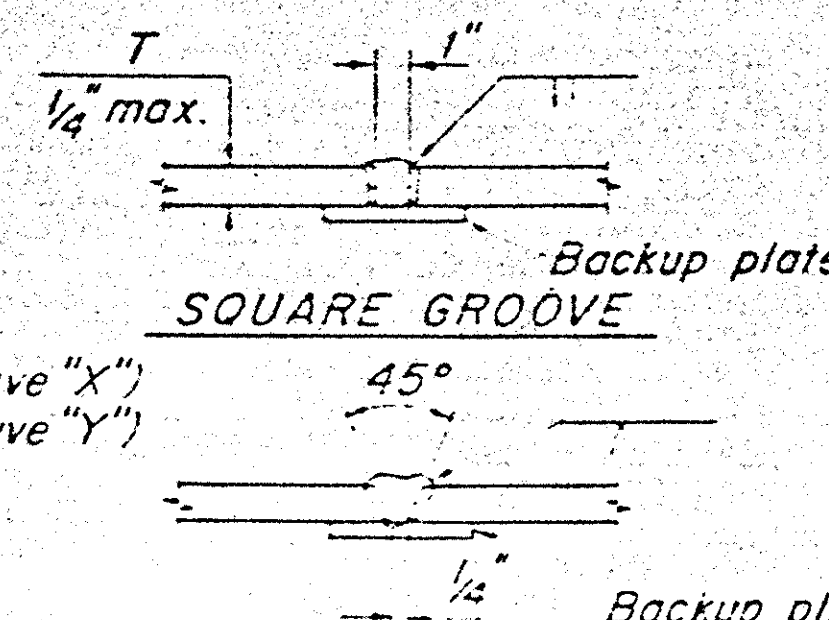
f'ci @ transfer = 4,000 psi

DESIGN LOADING

Class 45 = 45 tons
Class 70 = 70 tons

NOTE: This sheet supersedes Sheet No. B2-1, page 86 and Sheet No. B2-5, page 88 of the Standard Plans dated January, 1981.

Supersedes Sheet RSP B2-5 dated April, 1982



SINGLE VEE-GROOVE

SINGLE BEVEL-GROOVE

PILE WELDING DETAIL - BUTT JOINTS

Notes

1. Single Vee-Groove and Square Groove permitted for all positions.
2. Single Bevel-Groove permitted for horizontal joints only.

1 1/2 0 1 2
3 inches on original drawing

		ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
		SANTA ANA RIVER BIKE TRAIL CROSSING	
		PILING DETAILS	
DATE	DESCRIPTION	PREPARED UNDER	SHEET
REVISIONS		SUPERVISION OF	6
DESIGNED		DATE	OF 6
DRAWN		SCALE	
CHECKED		APR. 85	

DR. 12 (US022)