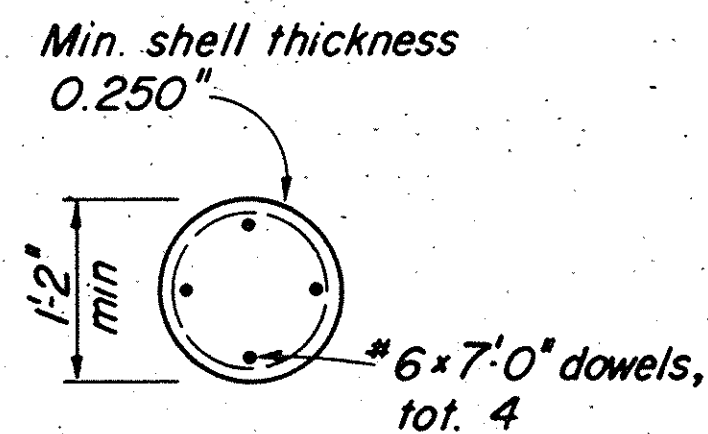
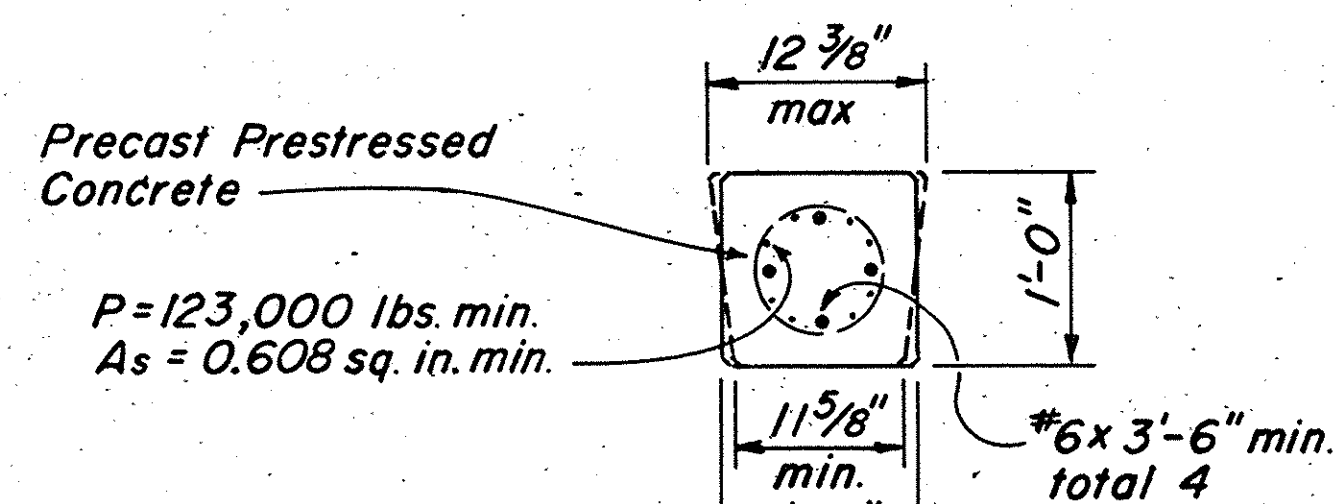


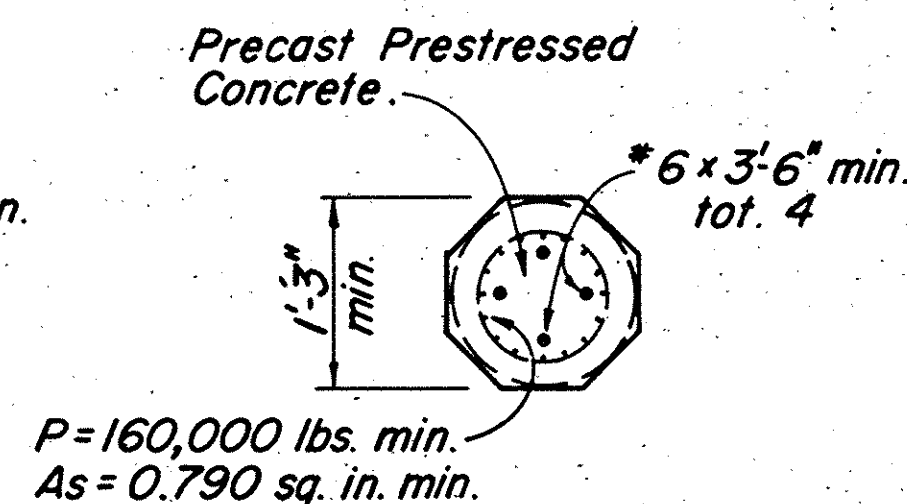


SECTION U-U

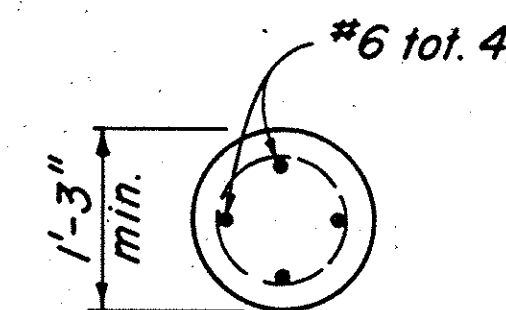
When driven with mandrel, shell thickness may be reduced to 0.134".



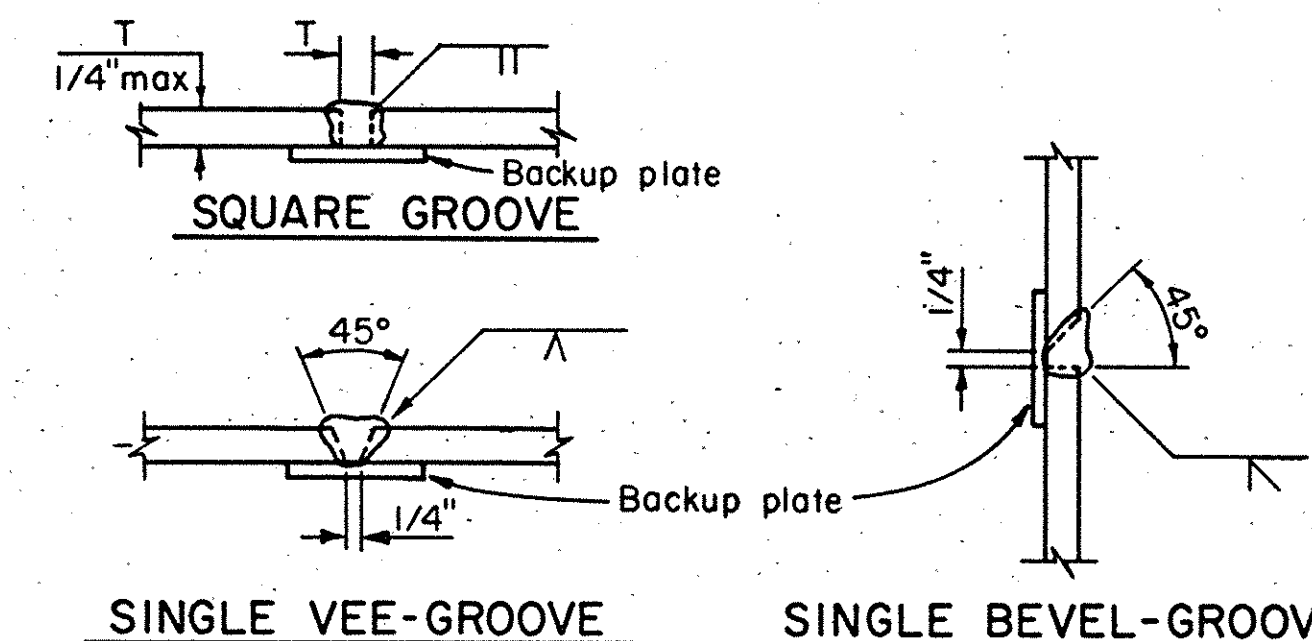
SECTION X-X



SECTION Y-Y

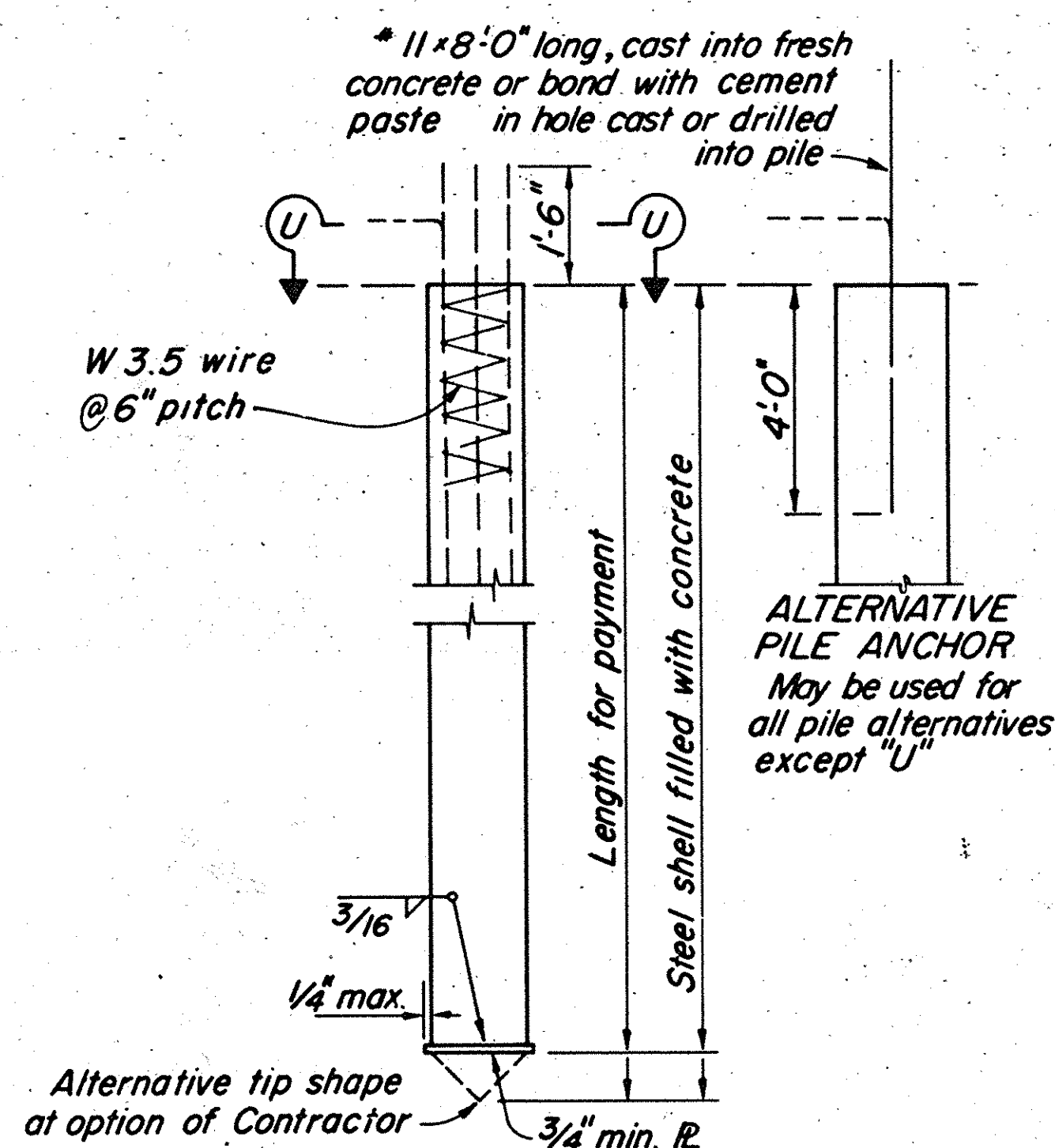


SECTION Z-Z

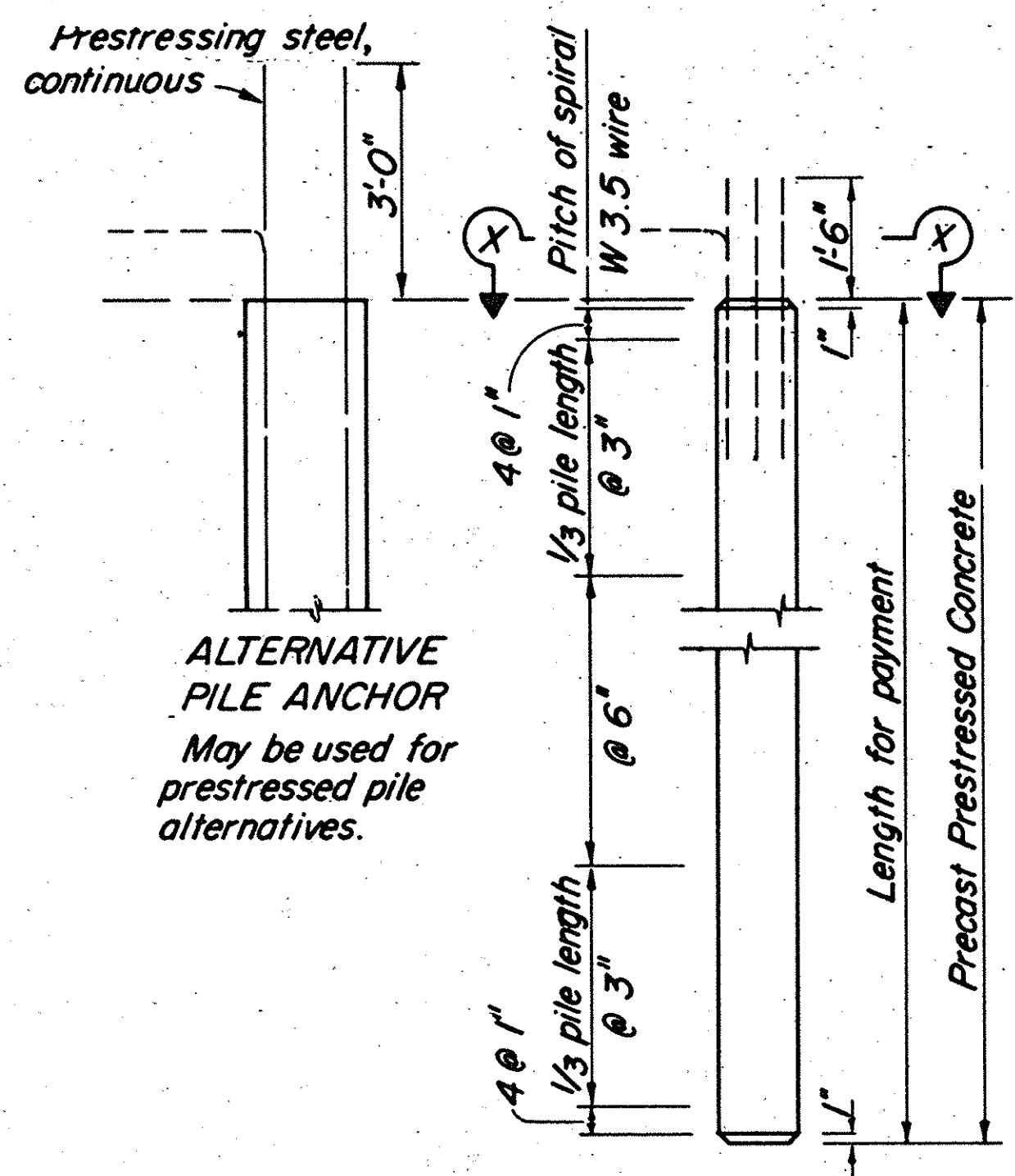


PILE WELDING DETAIL - BUTT JOINTS

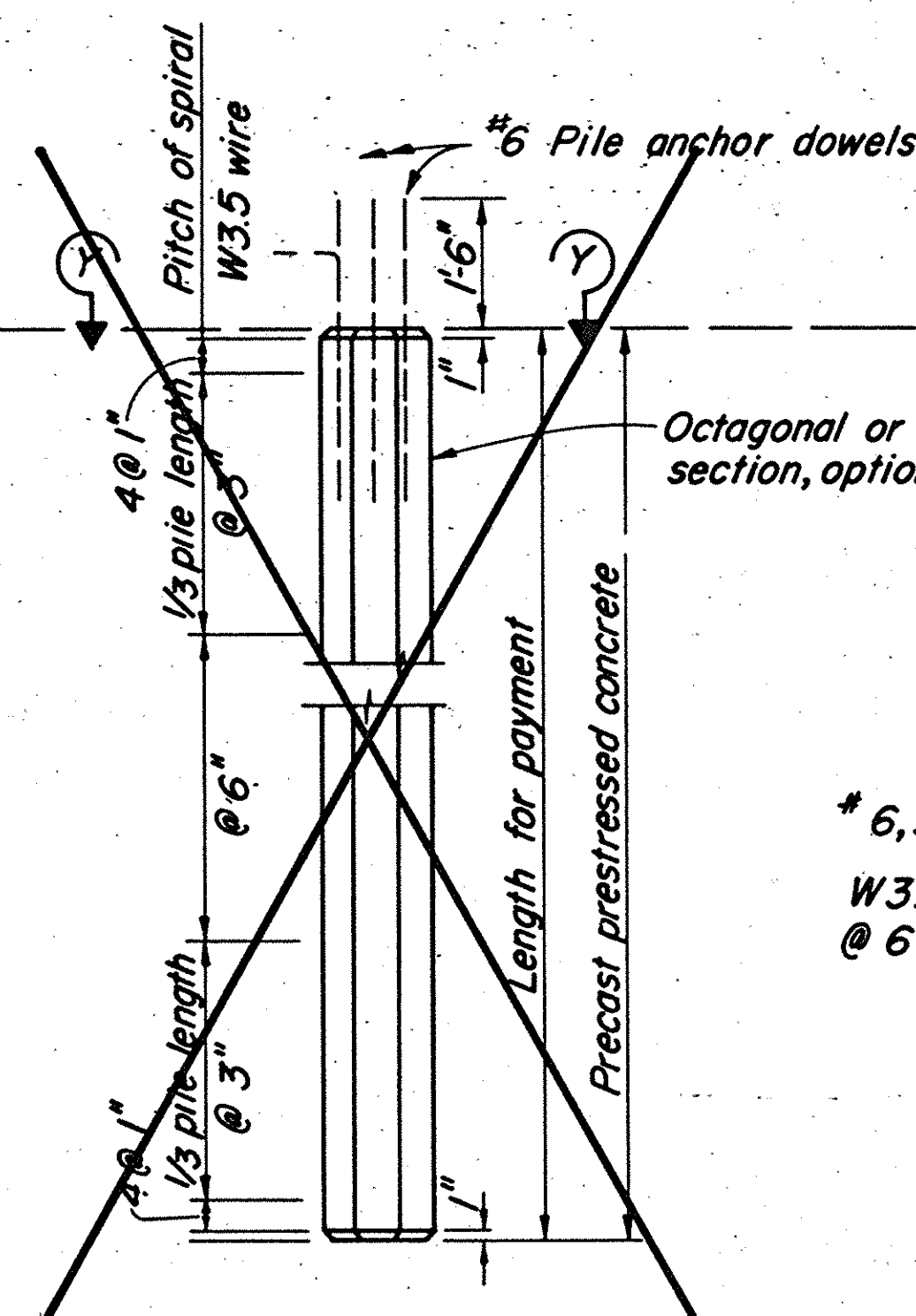
- Notes:
1. Single Vee-Groove and Square Groove permitted for all positions.
 2. Single Bevel-Groove permitted for horizontal joints only.



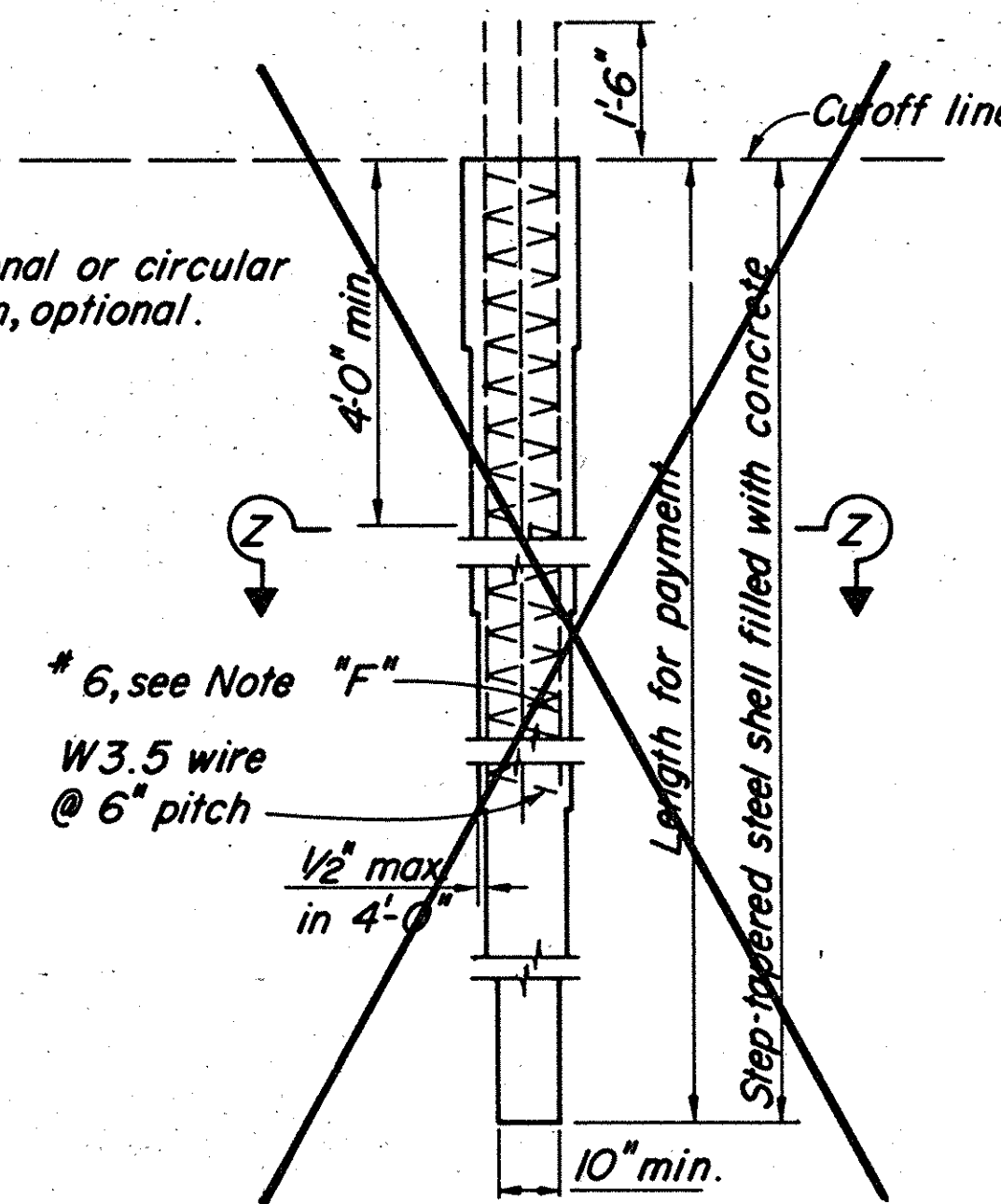
ALTERNATIVE "U"



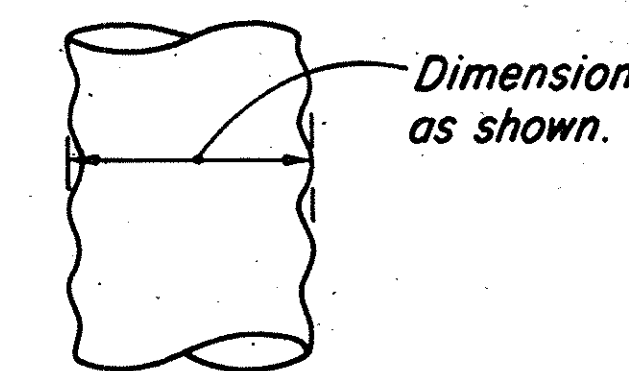
ALTERNATIVE "X"



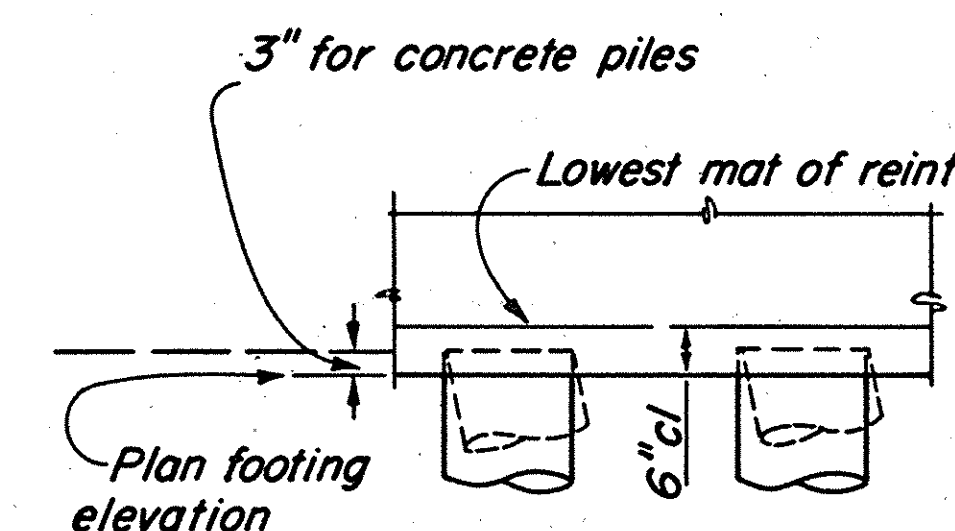
ALTERNATIVE "Y"



ALTERNATIVE "Z"



CORRUGATED ALTERNATIVE "Z"



Pile type to be as designated elsewhere

PILE EMBEDMENT

Notes:

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

All dowels or bars extending into a footing having a depth less than 2'-0" shall be hooked.

5 gauge wire may be substituted for W3.5 wire.

Piles may not be extended except in accordance with details shown in the Project Plans.

PRECAST PRESTRESSED PILES:

P = Prestressing Force @ anchorage

If section used is larger than the min. section shown, then "P" shall provide 860 psi. min.

As = Minimum Area of prestressing steel required.

Concrete Strength: f'_c @ 28 days = 6,000 p.s.i. (Alternative "X")
5,000 p.s.i. (Alternative "Y")
 f'_c @ transfer = 4,000 p.s.i.

DESIGN LOADING = 70 TONS

FOR "AS BUILT" PILE DRIVING DATA FROM THIS CONTRACT SEE SHEET 18

NOTE F

In Alternative "Z", two #6 bars shall extend to the pile tip and the other two #6 bars and the spiral wrap shall extend, at least, to a point halfway between the pile tip and the lowest of the following:

- a. Bottom of footing.
- b. Top of final ground surface.
- c. Top of original ground surface when holes are drilled through embankment constructed by Contractor.
- d. Bottom of pre-drilled holes greater than pile diameter.

AS BUILT

WHILE THE INFORMATION SHOWN IS BELIEVED TO BE ACCURATE, THE ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY WILL NOT BE RESPONSIBLE FOR OMISSIONS, ERRORS, OR INACCURACIES.

1/2 0 1 2
3 inches on original drawing

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY		TALBERT — MACARTHUR BRIDGE ACROSS SANTA ANA RIVER	
PILING DETAILS		SHEET 17	
DESIGNED: M.M.HSU	DATE: 4/82	SCALE: AS SHOWN	DWG. NO. 4/82
DRAWN: PLB	CHECKED: GWF	PREPARED UNDER SUPERVISION OF: [Signature]	DATE: 4/82