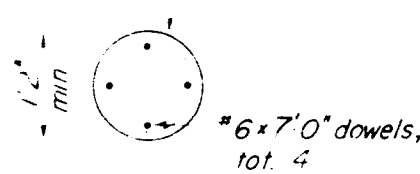
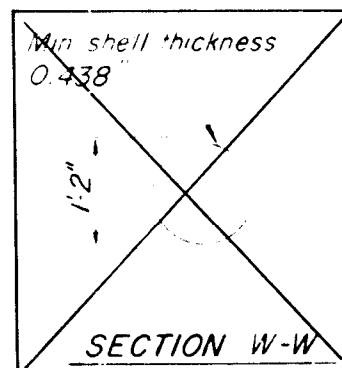


Min shell thickness
0.250"

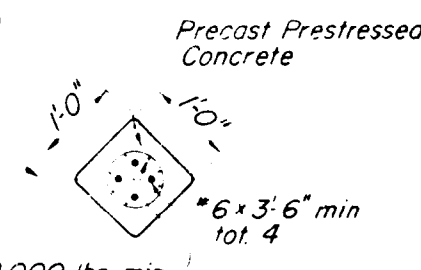


SECTION U-U



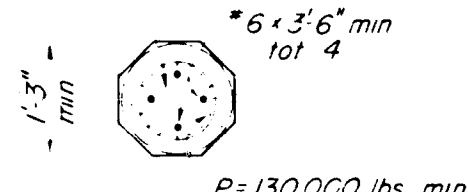
SECTION W-W

Place diagonal of pile
parallel to layout line
of footing.

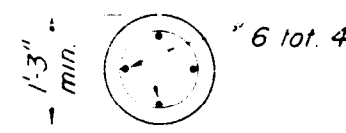


SECTION X-X

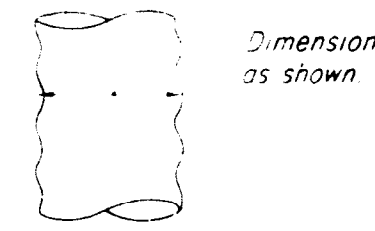
Precast Prestressed
Concrete



SECTION Y-Y

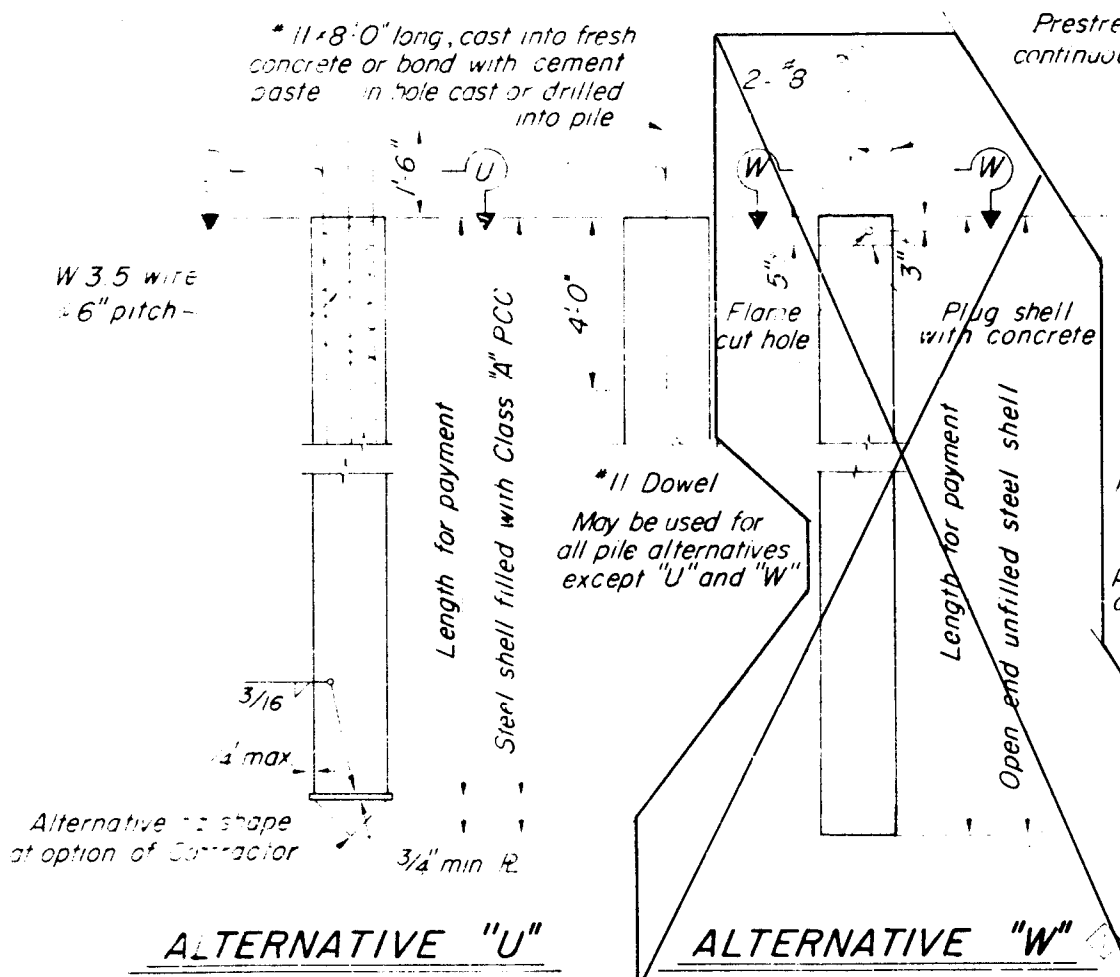


SECTION Z-Z



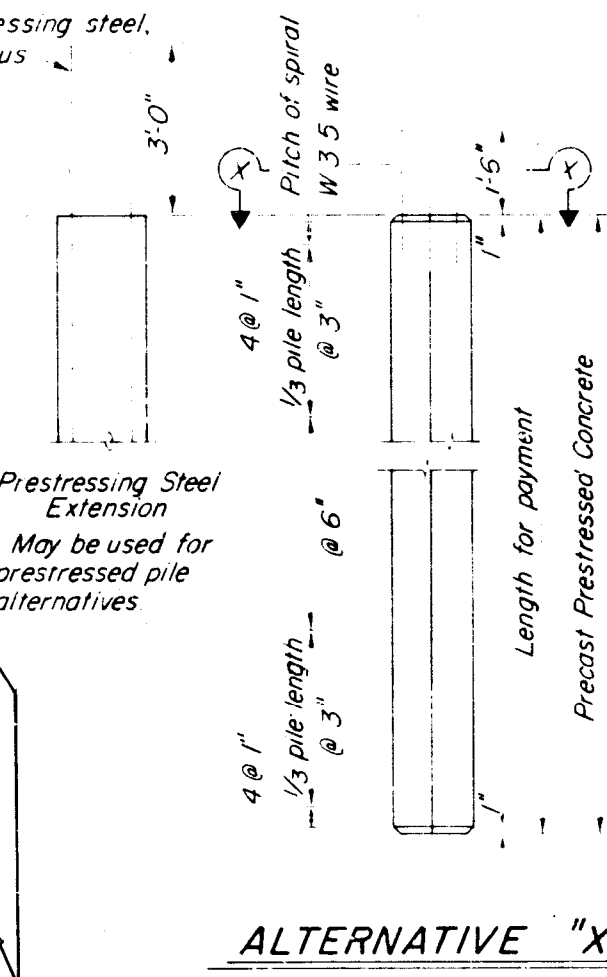
CORRUGATED ALTERNATIVE "Z"

NOTE:
When Alternative "U" is driven with mardrel,
shell thickness may be reduced to 0.134"

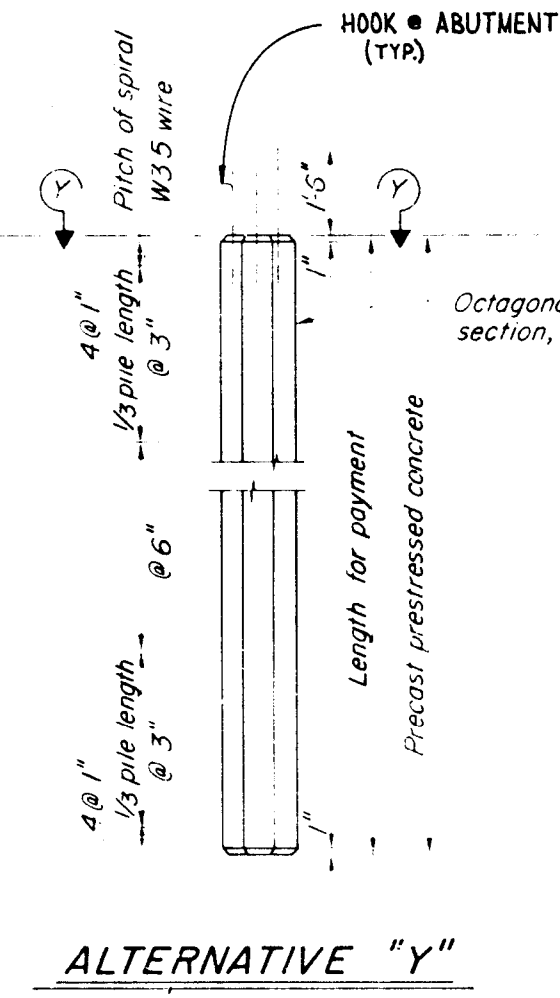


ALTERNATIVE "U"

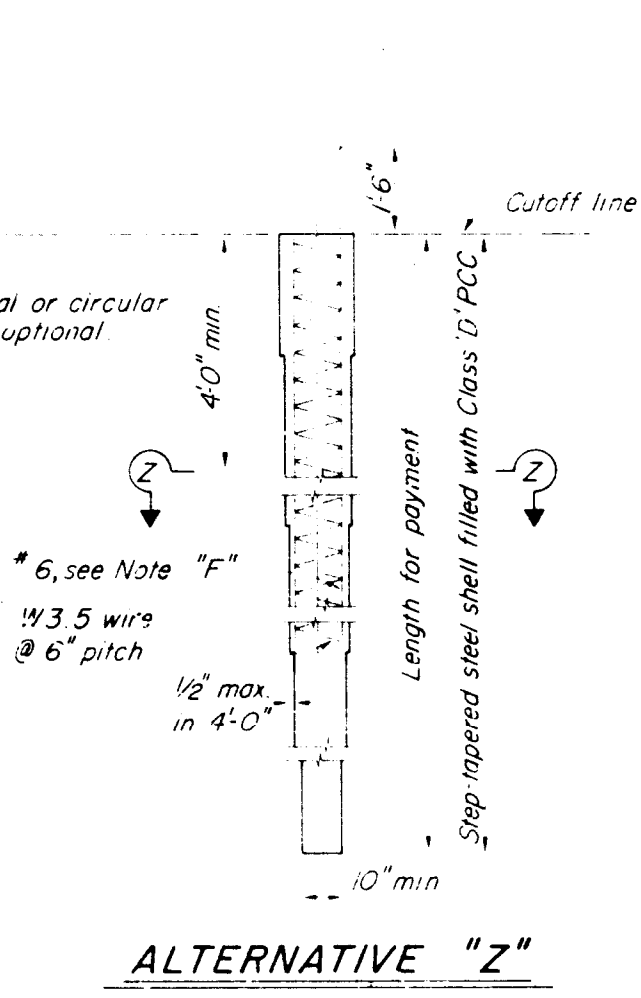
ALTERNATIVE "W"



ALTERNATIVE "X"



ALTERNATIVE "Y"



ALTERNATIVE "Z"

A 12" 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.

PRECAST PRESTRESSED PILES:

P = Prestressing Force
(After losses)
If section used is larger than
the min. section shown, then
"P" shall provide 700 psi. min.
Concrete strength: f'_c @ 28 days = 6,000 psi (Alternative "X")
5,000 psi (Alternative "Y")
All dowels or bars extending into slab or footing having a
depth less than 2'0" shall be hooked.

NOTE: "F"

- In ALTERNATIVE "Z" the No 6 bars shall extend to:
1. Bottom of pile for bridges over water courses
 2. 12'0" below the lowest of the following for bridges not over water courses.
 - 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

PILE TYPE = 70 CLASS
DESIGN LOADING = 70 TONS

12300
McFADDEN AVENUE
BRIDGE SA-26.5
REDUCE 24x11
SHEET 18 of 18
LINE

ORANGE COUNTY ROAD DEPARTMENT	
McFADDEN AVENUE BRIDGE WIDENING OVER THE SANTA ANA RIVER	
PILE DETAILS	
Scale AS NOTED	SHEET 18 of 18

DR.#13 (12300)