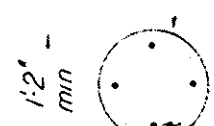


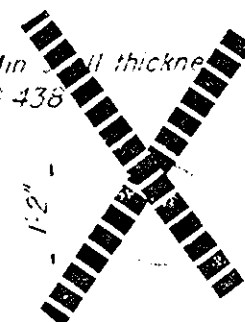
Min shell thickness
0.250"



#6 x 7'-0" dowels,
tot. 4

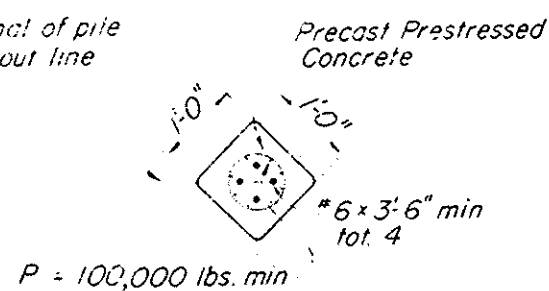
SECTION U-U

Min shell thickness
0.438"



SECTION W-W

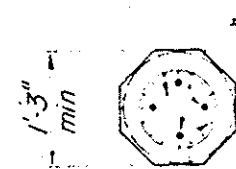
Place diagonal of pile
parallel to layout line
of footing



P = 100,000 lbs. min.

SECTION X-X

Precast Prestressed
Concrete.



P = 130,000 lbs. min.

SECTION Y-Y



SECTION Z-Z

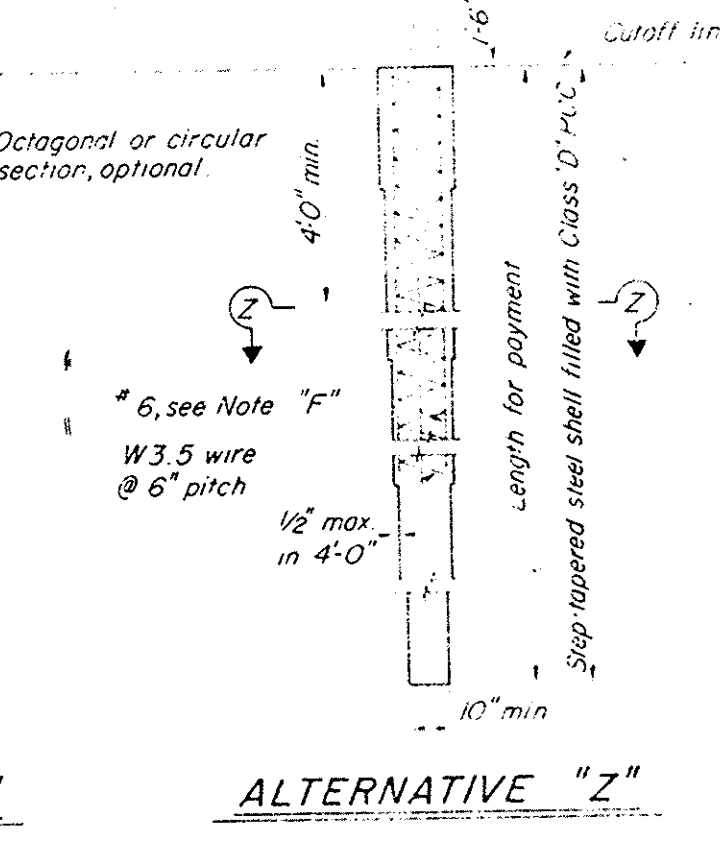
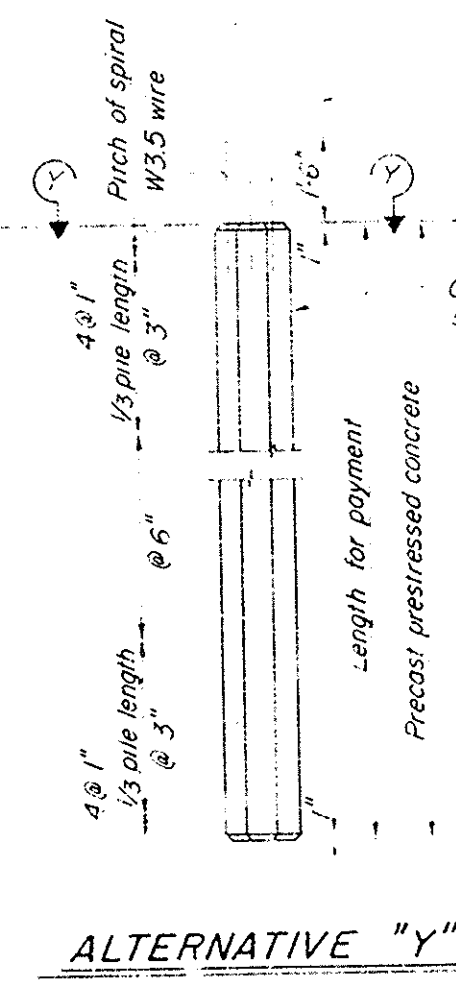
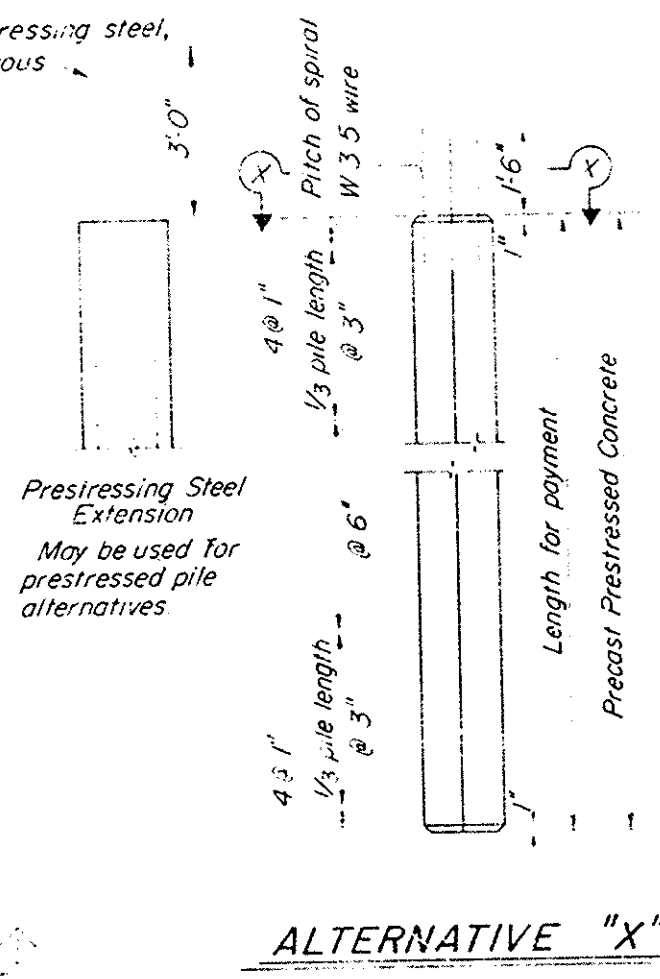
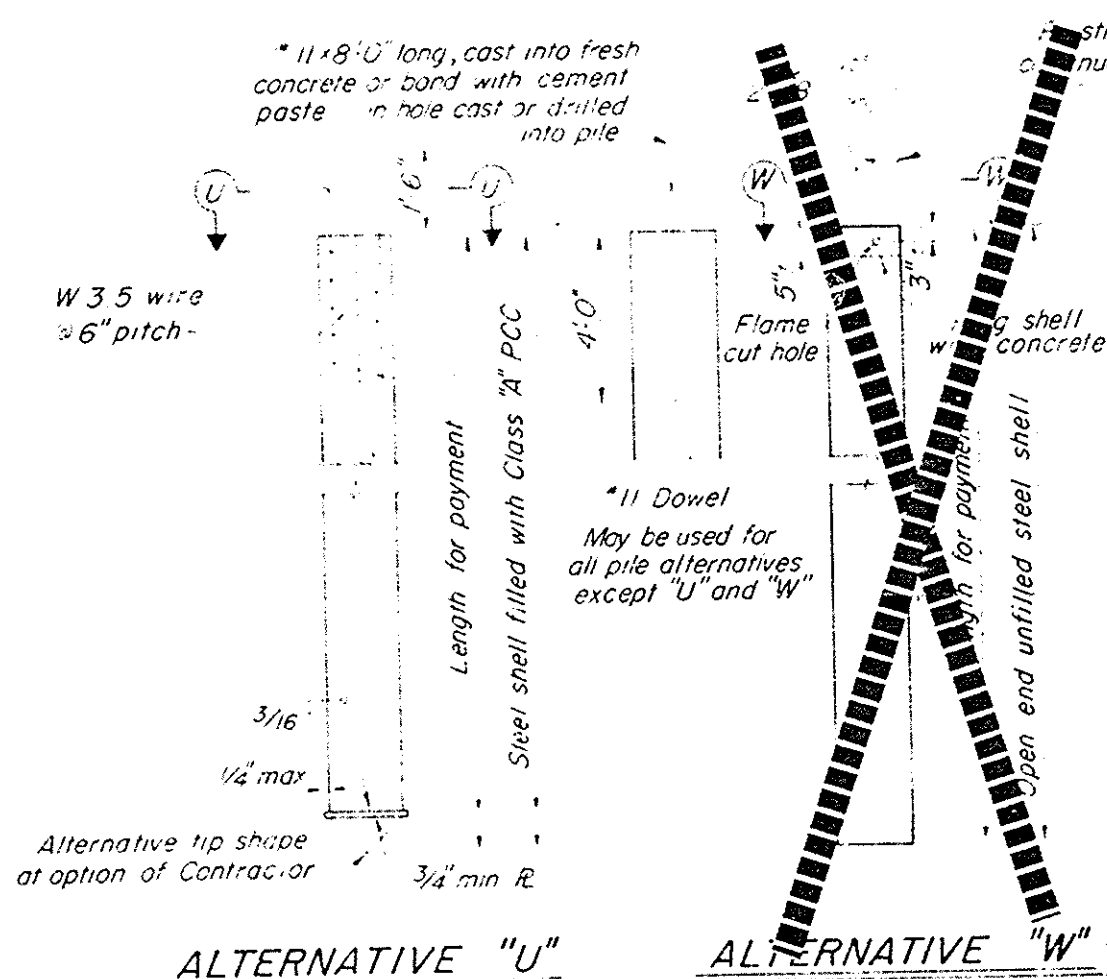


Dimension
as shown.

CORRUGATED ALTERNATIVE "Z"

NOTE:

When "Alternative U" is driven with mandrel,
shell thickness may be reduced to 0.134"



NOTES:

1. 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
2. 5-Gauge wire may be substituted for W3.5 wire.
FOR W3.5 WIRE

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.

DESIGN LOADING = 70 TONS

612504
Hamilton-Victoria Bridge (SA38)
Sheet 18 of 22
Rev. 24:1
Linen

HAMILTON-VICTORIA BRIDGE
SA-38
ACROSS SANTA ANA RIVER
PILE DETAILS

AS SHOWN 18 22

DRB (12504)