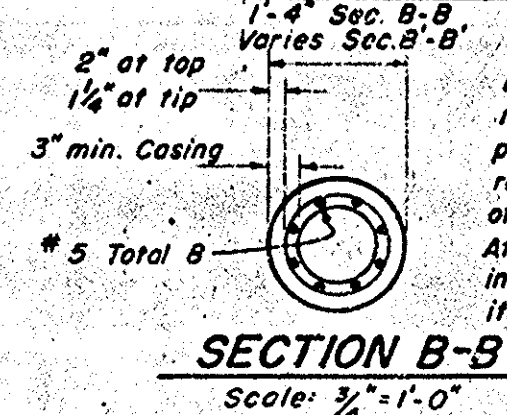
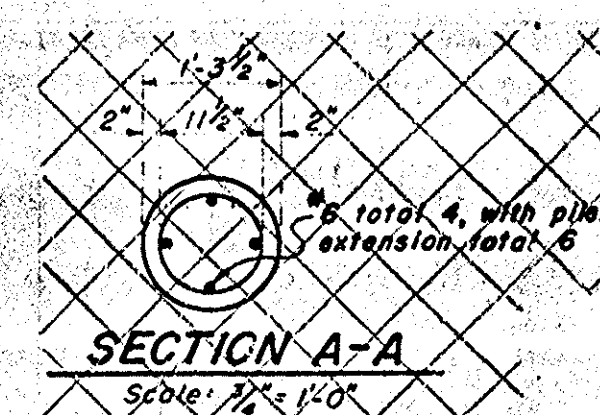
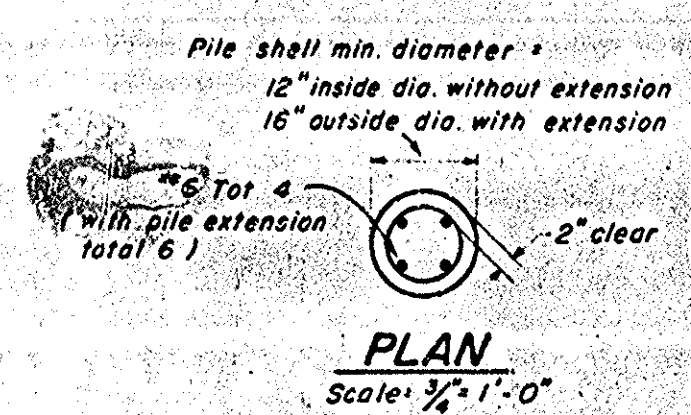
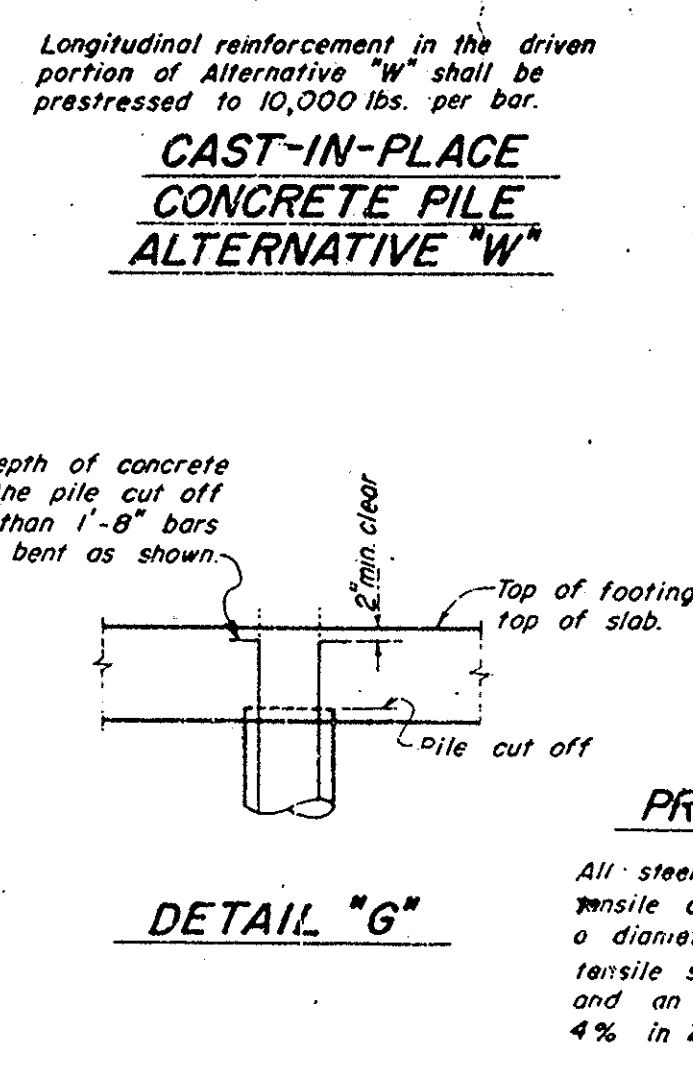
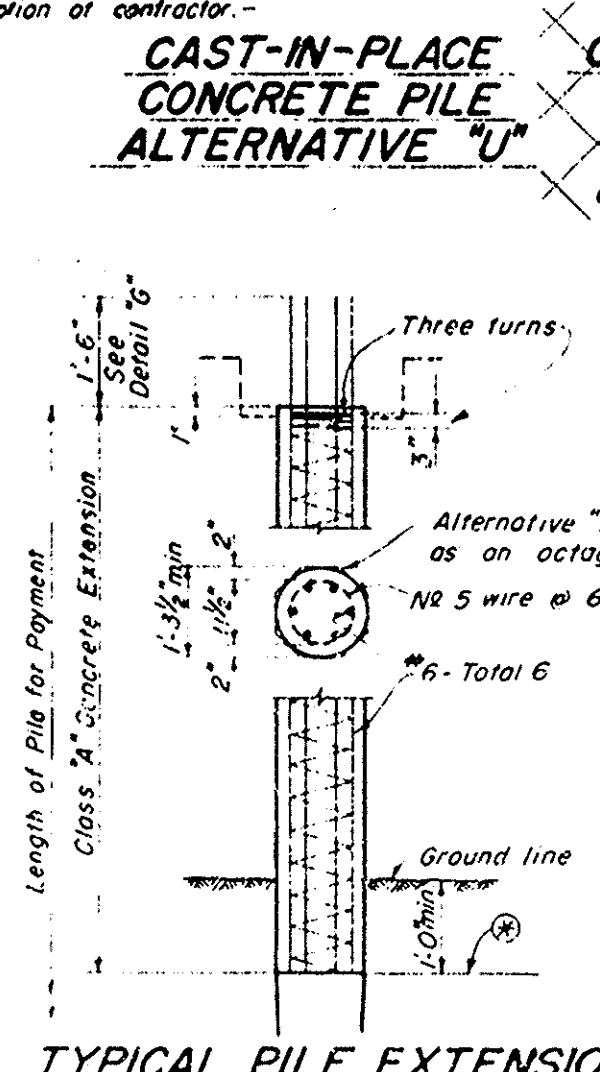
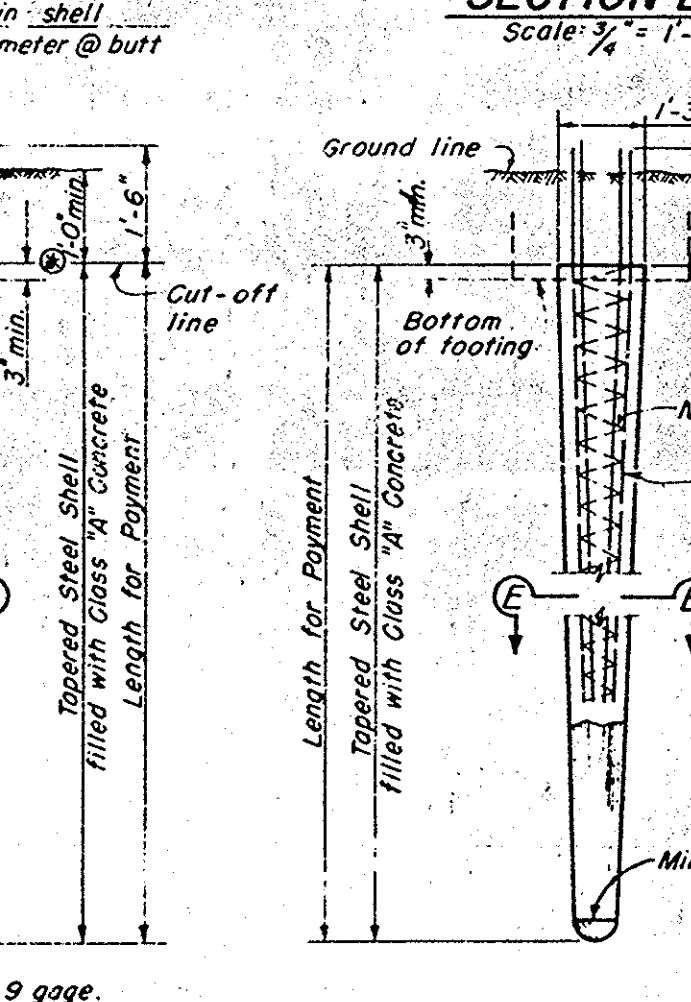
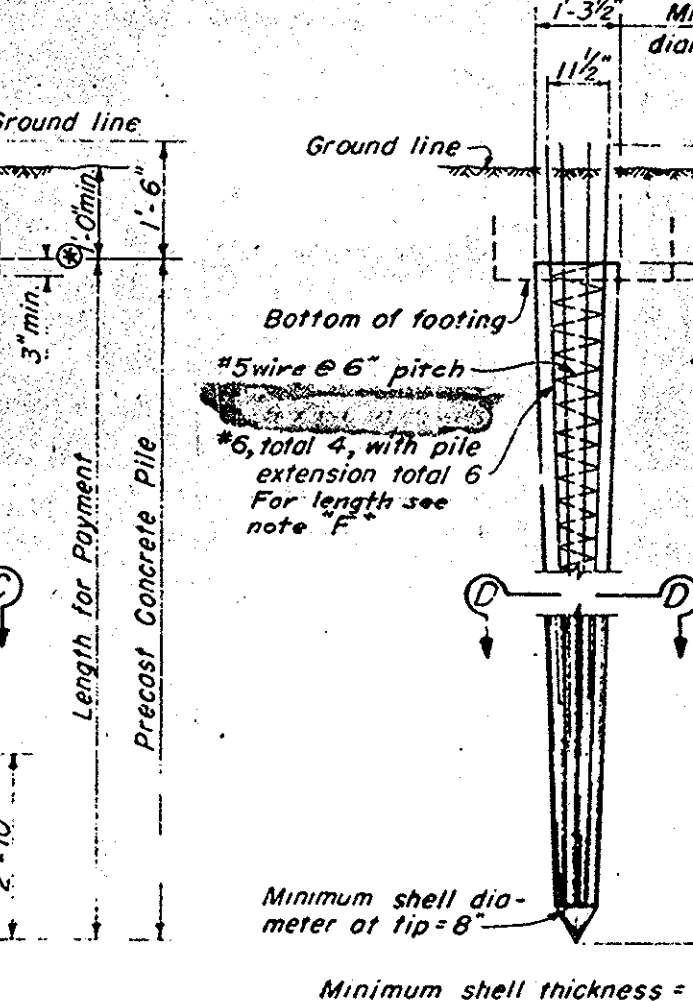
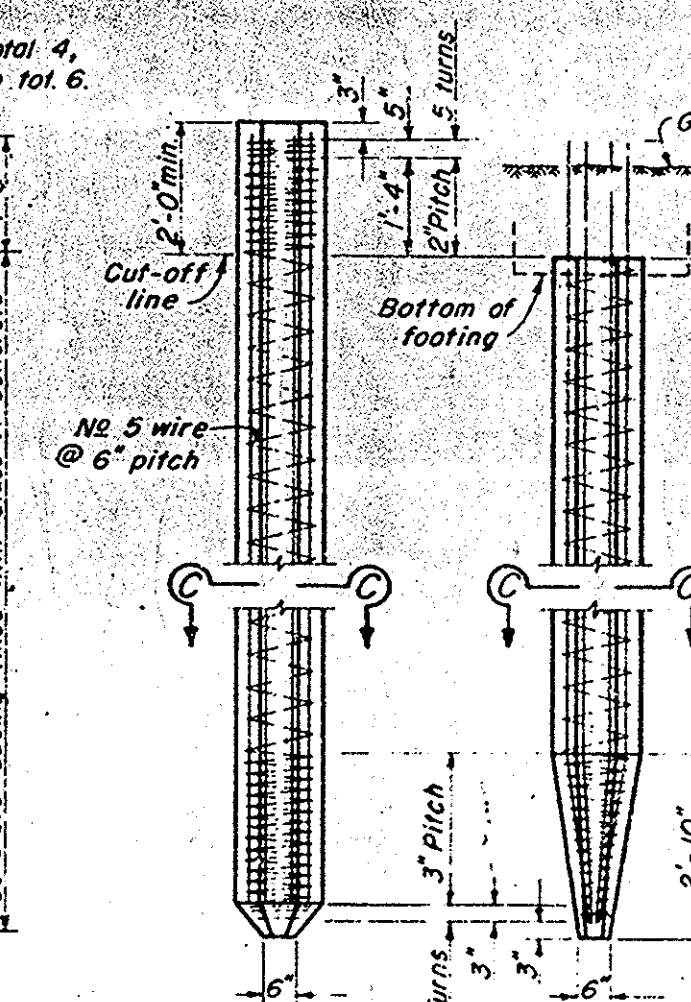
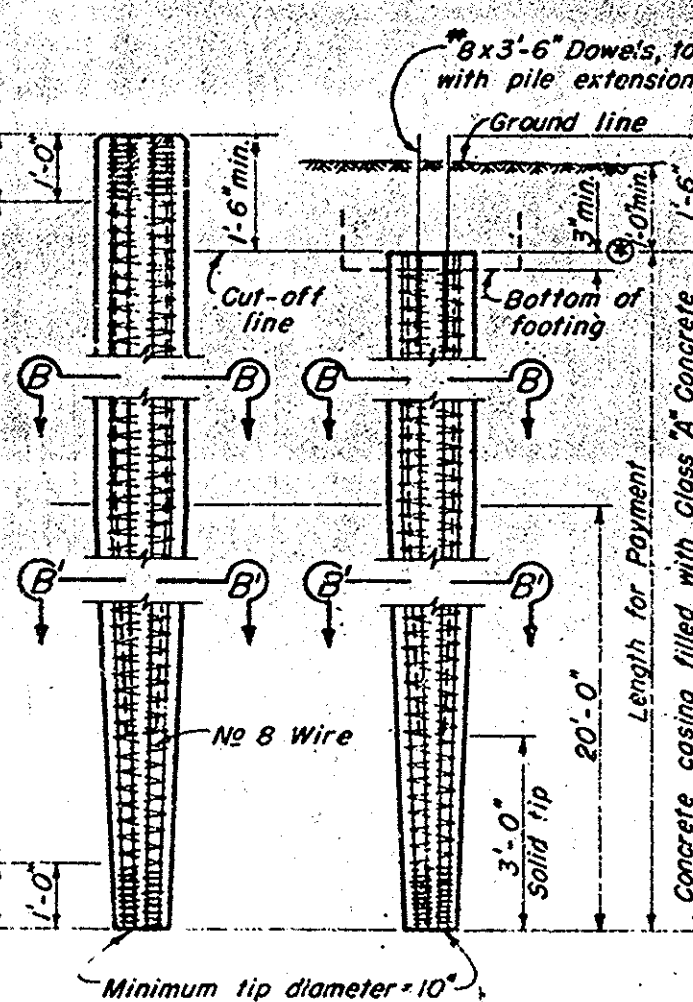
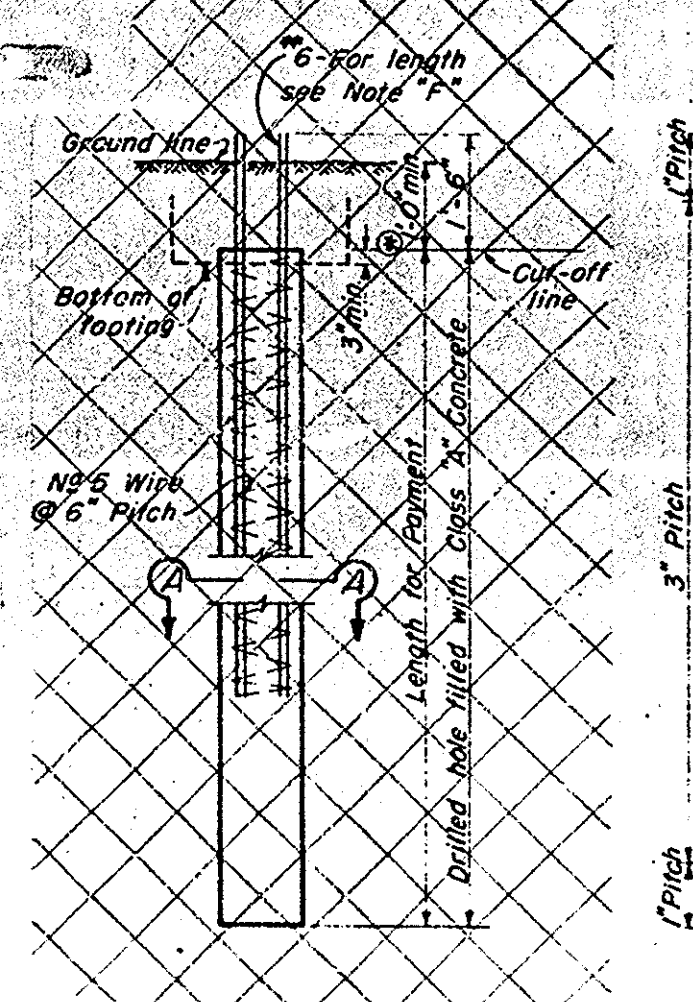
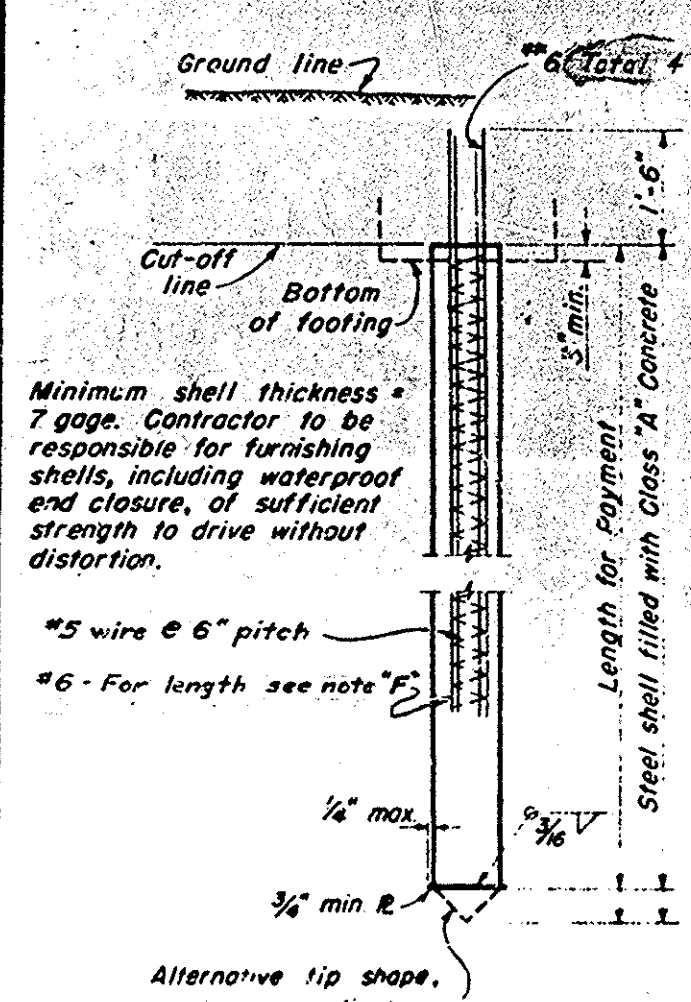
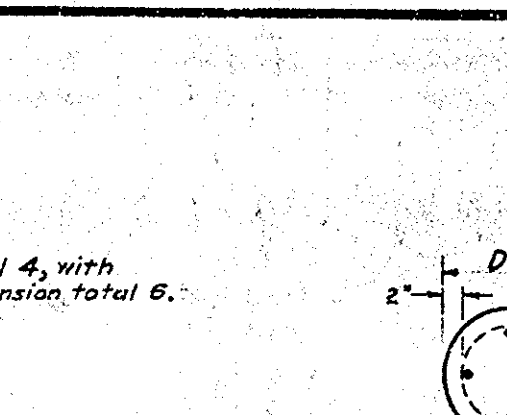
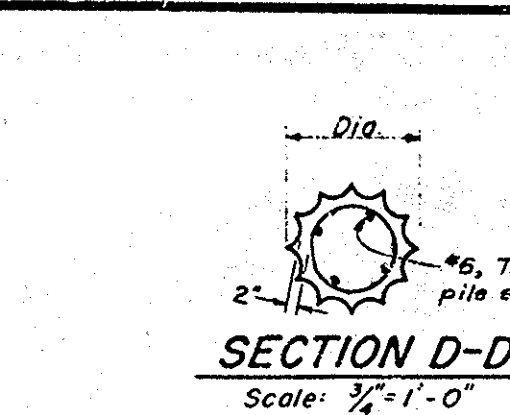
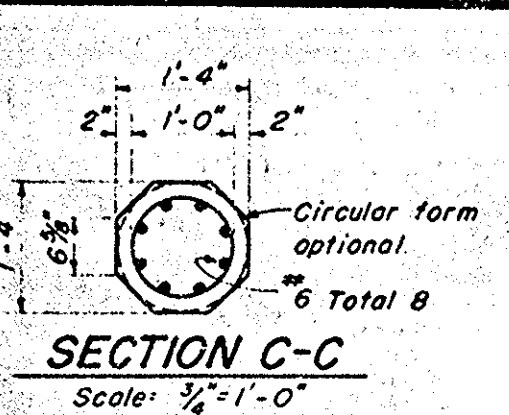




As an alternative to the reinforcement shown, Alternative "W" longitudinal reinforcement may consist of steel strands prestressed to have a total remaining force after losses of not less than 67,000 lbs. At no time shall the stress in the steel exceed 0.7 of its ultimate value.



PRESTRESSING NOTE
All steel strand to be prestressed shall be high tensile cold-drawn stress relieved wire strand, of a diameter not to exceed $\frac{1}{8}"$, having an ultimate tensile strength of not less than 200,000 p.s.i. and an elongation at rupture of not less than 4% in 24".

PILE NOTES
For Alternatives "W" and "X" the piles may be driven full length and cut off without extension or they may be extended as shown at the option of the Contractor. When Alternatives "U", "V", "Y" & "Z" are extended above ground, the Typical Pile Extension shall be used.
Ⓢ When piles are extended, the bottom of extension shall be located 1'-0" minimum below ground line, unless shown otherwise on the plans.
Note "F": In Alternatives "U", "V" & "Z" the length of #6 bars shall be either a minimum of $\frac{1}{3}$ penetration or 20", whichever is the greater. Penetration shall be measured below the lowest of the following controlling elevations:
1. Bottom of footing.
2. Top of final ground surface.
3. Top of original ground surface, when piles are driven through fills.

SA 30 Bridge
Wintersburg Ave.
Sheet 13 of 13
Scale As Noted
Brooklyn

GRANGE COUNTY HIGHWAY DEPARTMENT
WINTERSBURG BRIDGE
ACROSS
SANTA ANA RIVER
PILE DETAILS
NOTED

MICROFILMED
JUN 14 1962
SA-30