FOOTING DEPTH CHART

POST EQUATIONS

2 POST SIGNS  3 POST SIGNS  4 POST SIGNS

\[ C_0 = \frac{F \times 0.63}{1.5P} \]
\[ C_0 = \frac{F \times 0.6}{1.5P} \]
\[ C_0 = \frac{F \times 0.4}{1.5P} \]

F = FORCE ACTING ON SIGN (kN), REFER TO DRG 1830-0004 & 0005.
P = SOIL PRESSURE INDEX (kPa)
D = FOOTING DIAMETER (m)
L = MOMENT LEVER ARM (m), REFER TO DRG 1830-0003.

NOTES:

1. RULEDGE EQUATION (FOR FOOTING DEPTH D)

\[ D = 1.8C_0 \sqrt{1 - \frac{C_0}{2.63}} \]

FOR D < 3m

FORMULA MODIFIED FROM "FOOTING DESIGN FOR WIND RESISTANT HIGHWAY SIGNBOARDS"; IVEY & HAWKINS, TEXAS TRANSPORTATION RESEARCHER (APRIL 1966).

2. DEPTH SCALE ON CHART INCLUDES 200mm FOR POSSIBLE DISTURBANCE TO SOIL AROUND POSTS.

3. FOR FOOTING REINFORCEMENT REFER TO DRAWINGS 1830-0013 & 1830-0015.