



Pole Height	Foundation depth
13.7m (45')	4.4m (14'-6")
16.8m (55')	6.2m (20'-4")

**Notes:**

1. The Engineer shall determine the class of soil during excavation. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength ( $Q_u$ ) > 100 kPa (1.0 tsf). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. The anchor bolts and raceways shall be properly secured in place.
3. Concrete shall be class "SI" Concrete and the foundation must be cured for ten (10) days before the pole is erected.
4. The cable trench shall be backfilled and firmly compacted before the pole is erected.
5. For sloping grades, the foundation design depth shall be increased by the corresponding cross slope shaft depth increase factor given by:
  - A. Cohesive soil - cross slope shaft increase factor  $0.009 \times (\text{slope angle}) + 1.0$
  - B. Granular soil - cross slope shaft increase factor  $0.00005 \times (\text{slope angle}) + 1.0$
6. Install grounding system in accordance with Section 806 of the IDOT Standard Specifications.