

EL CASCO SUBSTATION SIMULATION



Existing view of El Casco Substation Site from Norton Younglove Reserve looking northwest (Key View 1)



Simulated view of El Casco Substation Site from Norton Younglove Reserve looking northwest (Key View 1)

EL CASCO SUBSTATION SIMULATION



Existing view of El Casco Substation Site from Norton Younglove Reserve looking southeast (Key View 2)



Simulated view of El Casco Substation Site from Norton Younglove Reserve looking southeast (Key View 2)

EL CASCO SUBSTATION SIMULATION



Existing view of El Casco Substation Site from San Timoteo Canyon Road (Key View 3)



Existing view of El Casco Substation Site from planned residences (Key View 4)



Simulated view of El Casco Substation Site from San Timoteo Canyon Road (Key View 3)



Simulated view of El Casco Substation Site from planned residences (Key View 4)

EL CASCO SUBSTATION SIMULATION



Existing view of 115 kV subtransmission line looking east from Highland Springs Road (Key View 5)



Existing view of 115 kV subtransmission line looking west from Highland Springs Road (Key View 6)

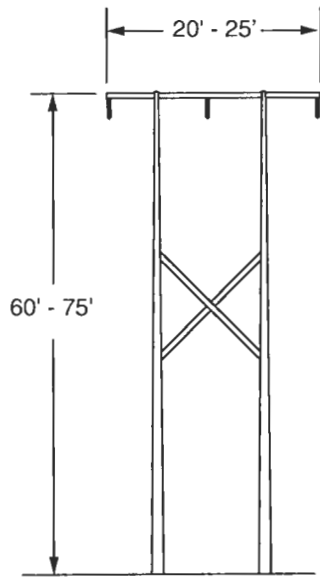


Simulated view of 115 kV subtransmission line looking east from Highland Springs Road (Key View 5)



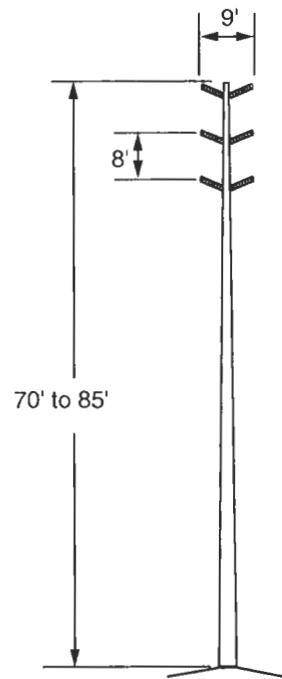
Simulated view of 115 kV subtransmission line looking west from Highland Springs Road (Key View 6)

TYPICAL STRUCTURE DESIGNS FOR EL CASCO



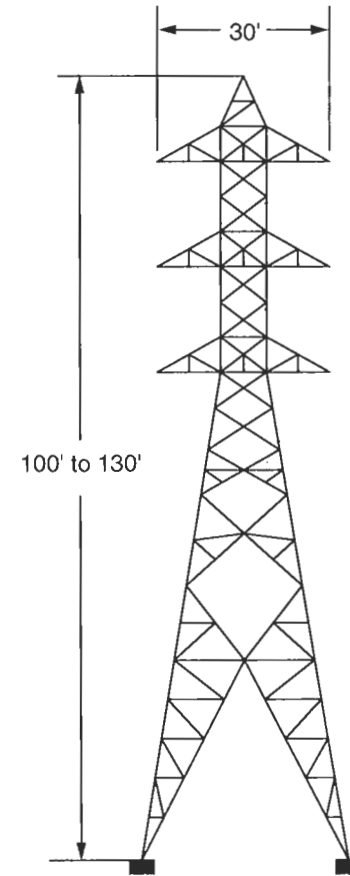
Single-circuit 115 kV
Wood H-Frame

EXISTING



115 kV Double-circuit
Lightweight Steel Pole

NEW



220 kV Lattice Steel Tower
(3 Towers - Near Substation Only)

TYPICAL SUBTRANSMISSION LINE CONSTRUCTION ACTIVITIES



1. Stage materials



2. Dig holes



3. Set new pole in place



4. Transfer 12 kV or 33 kV wires, install new 115 kV circuit wires, and remove old pole



5. Typical new single-circuit pole with distribution underbuild and communication cable

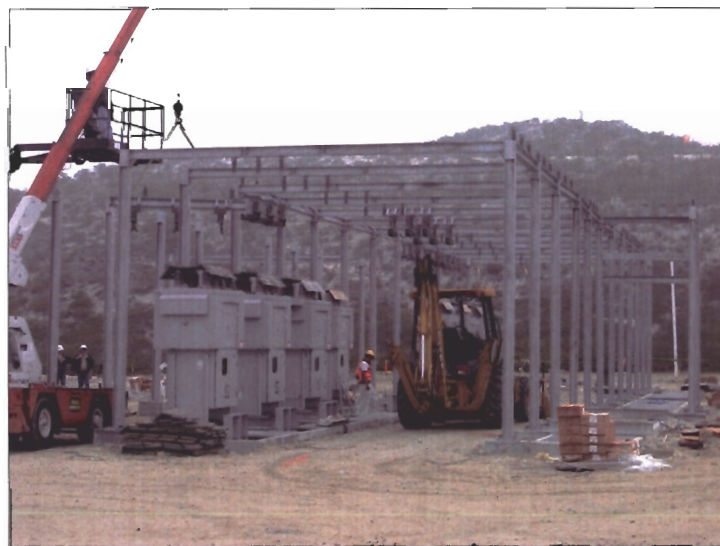
TYPICAL SUBSTATION CONSTRUCTION



1. Grade the site and install underground conduits



2. Install foundations



3. Install electrical equipment