

# ENTRANCE FACILITIES



## Load Balancing

Contractors and other installing electrical work are to balance the load on three-wire and four-wire systems. This is advantageous to the customer and to Service Provider because it will give the customer better voltage regulation and maximum use of service entrance equipment.

## Typical Service Entrances

Typical service entrances for residences shall be installed in accordance with Company Standards SR-305, SR-310, SR-405, & SR-408. Service termination requirements for underground service to multiple metered installations are depicted on SR-425 and SR-426. Service entrance size for both residential and commercial installations is defined to be the nameplate ampere rating of the associated panelboard or switchboard. The Service Provider will determine the conduit and service conductor size based on the nameplate rating on single-phase installations. For three-phase installations, TEP maximum for conduit is four (4) inches and service conductor is 600kcmil. Conduit and wire size for three-phase installations in UES Santa Cruz shall be approved by Design Services.



## Socket Wiring

Meter socket will be wired in accordance with Company Standards, series SR-400.

# ELECTRIC SERVICE LINES

## Overhead Service Lines



Service Provider will install (1) one span of overhead service line to the customer's approved point of attachment from the last pole on the overhead distribution system.

## Underground Service Lines

Service Provider normally will install an underground service line to a residence in a customer-provided conduit system. For residences exceeding 300 amp service rating, commercial, and other installations, the customer should contact Service Provider to determine the point of delivery and the resultant responsibilities for installation.

## Service Trenches

Trenching and conduit system for service will be in accordance with Company trenching and meter location standards SR-312 and SR-405. The location and routing of the service trench made necessary by noncompliance with these requirements will be made by the customer at his expense.

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