GENERAL REQUIREMENTS

1. Prior to starting any new service installation, or making any changes to existing service(s), Customer shall fill in "Load Survey and Information Sheet" (ED-205) and return to the City of Santa Clara, Electric Department, Design Section, Telephone (408) 984-3161.

2. City Electric Department Design Section will determine the service point, service type (overhead or underground) and available service voltage.

3. For overhead service, the following requirements, as shown below and on sheets 2, 3, and 4, shall apply. (Note: For underground service, requirements are covered in Engineering Standard UG 1000.)

4. Typical arrangement of service mast(s), main(s), and meter(s) for all new service installations or rework (modifications) of existing installations, shall be as shown.

5. All meters shall be grouped at one location approved by the City Electric Department, Design Section. The City shall have direct and unrestricted access to the meters at all times. The meters may be installed outside (preferable), or inside in a specially designated Utility Room with direct outside access.

6. Meter installation heights shall comply with the following:
   - Meters installed Outdoors: Min. 48"; Max. 75"
   - Meters inst. in a Cabinet or Indoors in a meter room: Min. 36"; Max. 75"
   - Meter height shall be measured from the ground or standing surface to the meter center line.

7. On all commercial installations (0-200A) the customer shall furnish an approved manual Test-By Pass.

8. For metering requirements and approvals, contact Electric Department Meter Shop, Telephone (408) 984-3050.
OVERHEAD SERVICE REQUIREMENTS

1. Service Voltages Available:
   For Single Family Residential:
   - 120/240V 3W 10
   - 120/208V 3W 10
   For Multiple Family Residential:
   - 120/240V 3W 10 (in most cases)
   - 120/208V 3W 10
   For Industrial Commercial:
   - 120/208V 4W 30
   - 120/240V 4W 30
   - 480V 3W 30
   (Note: 480/277V is available only with an underground service).

2. Maximum Main Size:
   - 120/208V 3W 10 – 200A
   - 120/208V 4W 30 – 1200A
   - 120/240V 3W 10 – 200A
   - 120/240V 4W 30 – 1200A
   - 480V 3W 30 – 600A
   NOTE: For larger main sizes an Underground Service will be required.

3. Maximum number of weatherheads per voltage class:
   Three

4. Maximum weatherhead conductor size:
   750 MCM CU or AL

5. Minimum length of weatherhead tails:
   4'-0"—Commercial & Industrial
   2'-0"—Residential

6. City will not connect more than 4 conductors per phase and neutral.

7. Obtain service racks from City of Santa Clara Service Center at 1705 Martin Ave. in Santa Clara. Size of rack(s) and location to be determined by City Electric Department, Design Section. Obtain Estimate Number from the Design Section prior to obtaining racks.

8. Point of service attachment, whether on Building, Service Masts, or build-up structure, shall be capable of safely supporting the strain imposed by the service drop.

9. Service Mast shall be a continuous piece of rigid electrical conduit, min. of 1-1/4". Couplings will not be permitted.
TYPICAL SERVICE LOCATIONS

POLIC LINE

POLE (Typical)

When pole is beyond corner of Bldg., service heads may be located on either wall at corner.

If pole is not beyond Bldg. corner Do Not put service heads on this side of Building.

RESIDENTIAL, LIGHT COMMERCIAL, AND LIGHT INDUSTRIAL

DIMENSIONS FOR SHEETS 3 & 4

RESIDENTIAL:

"A" Dimension = 12'-0" Min. over driveway
10'-0" Min. over pedestrian-only area

"B" Dimension = 8'-0" Min. over walkable roof
2'-0" Min. over non-walkable & non-metallic roof

COMMERCIAL AND INDUSTRIAL

"A" Dimension = 18'-0" Min. over street, private driveway and/or area where vehicles can be driven
12'-0" Min. over pedestrian-only area

"B" Dimension = 8'-0" Min. over walkable roof
2'-0" Min. over non-walkable & non-metallic roof

* If this dim. exceeds 30" bracing shall be required.

ELECTRIC SERVICE REQUIREMENTS

OVERHEAD

CITY OF SANTA CLARA

OH 550 5
**NOTES:**
1. Maximum number of weatherheads: 3
2. Center rack(s) below weatherheads.
3. Maximum spacing between weatherheads: 12"