

2. Drawing Scale. Appropriate metric drawing scales shall be

3. Graphic Scale. Since the size of the drawing sheet can be reduced photographically, graphic scale shall be shown on each drawing sheet.

Graphic scale denotes nominal or average plan scale and remains true when drawn photographically reduced.

Plan Requirements and Specifications

Plan Requirements

Location and Site Plans. Location and site plans, with proposed structure and owner's land drawn to appropriate metric scale shall

Bordering areas showing public or well-known streets, parks and/or structures which need not be drawn to scale unless they extend into the area concerned;

Location of service drop, service equipment and nearest pole utility company furnishing electrical energy; location of the structure as well as sizes of service entrance wires, conduits and service equipment; and

Clearance of the path or run of service drops and entrance adjacent existing and/or proposed structures.

Legend or Symbols. Refer to Appendix A - Electrical Symbols and General Notes and/or Specifications. General Notes and/or Specifications, written on the plans or submitted on separate standard sheets shall show:

Nature of electrical service, including number of phases, type of wires, voltage and frequency;

Type of wiring;

Service entrance

Feeders, sub-feeders and branch circuit wires for lighting power load

Philippine Electrical Code

- c. Fire alarm system, if required by law
- d. Signaling and communication

(3) Special equipment to be installed, indicating ratings and classification of service or duty cycle of:

- a. Rectifiers
- b. Heaters
- c. X-ray apparatus
- d. Electric welding equipment
- e. Others

(4) System or method of grounding.

(5) Type and rating of main disconnecting means, overcurrent protection (OCP) and branch circuit wiring;

(6) Clearances of service drop, burial depth for service lateral, mounting height and clearance for service equipment, mounting height and clearance for kWh meter

(d) Electrical Layout. Floor plan showing location of equipment and devices, and their interconnection wiring.

(1) Plan for Power. Layout and wiring plans for power on the floor plans drawn to scale, shall show:

- a. Sizes and location of service entrance conductors, raceways, metering equipment, main switchboard, layout of feeders and distribution panels or switches and their sizes, types and ratings.
- b. Complete circuits of motors and other electrical equipment, their controlling devices, their locations and ratings;
- c. Complete wiring of emergency power system, if any;
- d. Nature of processes/activities carried out in each room or area

FFM: In residences, apartment houses and small commercial establishments layout of equipment and motors of one horsepower or less may be incorporated in the layout for General Lighting and Receptacle Outlets. In general, layout of motors and power outlets not exceeding a total of ten, may be included in the lighting layout provided such inclusion will not make reading, interpretation and/or checking of said plan difficult.