

- (2) Exposed service entrance conduits shall be painted with epoxy primer in three (3) coats application.
- (3) Conduits shall be properly reamed.
- (4) The service entrance shall be at least 1.60 m above the natural grade line.

b. Branch circuit conduits, boxes, fittings and support shall run parallel to walls, columns and beams of the building.

- (a) Metal boxes, gutters, supports and fittings shall be painted with epoxy primer in three (3) coats prior to installation.
- (b) Polyvinyl Chloride (PVC) solvent shall be applied on all PVC pipe joints/connections
- (c) End bells shall be used at the end of PVC pipes and locknut and bushing shall be used for metallic conduit on all boxes and gutters termination.
- (d) Branch circuit conduits shall be either metallic or non-metallic as applicable.

c. Ceiling-mounted lighting fixtures

Flexible metallic tubing shall be used as drop pipe from a junction box to a lighting fixture.

d. In-sight disconnecting means

Watertight type straight or angle connectors shall be used from pumps, condensing units and other equipment that will be in possible contact with water or rain.

e. Centralized paneling

Breaker and wire gutter shall be used for proper arrangement of main distribution panel (MDP).

f. Stub-out conduits for spares

15-mm diameter PVC or IMC pipes shall be provided as stub-out conduits at different panel boards as per schedule of loads. Ends of stub-out conduits shall be threaded and capped.

g. Wires and Wiring Devices

- (1) Wires shall be properly designed in accordance with Article 3.10 and the grounding system shall conform to Article 2.50 of PEC.
- (2) Wiring devices must be of modern type and approved for both location and purpose.

h. Lighting and Fixtures

- (1) Each classroom must be provided with an energy efficient lighting product(s) (e.g T5 or T8 lamps with electronic ballast) that can produce 250 lux at the table top.