Poles, bases, foundations and holding down bolts shall be designed in accordance with the appropriate Australian Standard to suit the soil and wind loading conditions of the site and shall be certified by a practising structural engineer.

An opening for a minimum of four 50mm large sweep conduit bends (2 x electrical and 2 x communication) shall be provided through the base plate.

Poles shall be complete with all necessary brackets, spigots and ferrules to suit light fittings, etc. Poles shall be base-plate mounted.

Access to Pole Bases

Provide weatherproof (IP56) covered hand holes near the base of all lighting poles to gain access to switchboard/enclosure containing terminations, circuit protection device and control gear. All poles shall be fitted with MCB/RCD. Provide anti vandal fixings to all access doors. Size and number of access doors shall be provided to suit the switchboard/enclosure and remote control gear. Coordinate requirements with pole manufacturer during pole shop drawing stage.

Equipment in Pole Base

Insulated and IP56 switchboard/enclosure terminal boxes shall be provided for the incoming conductors and the luminaire connections. The terminals shall be of adequate size for wire sizes and equipment shown and should generally be of the type which does not provide connection directly between the terminal screw and the conductor. Alternatively where direct screw type terminals are used cable ends must be soldered.

Electrical services installed close to non-electrical services shall be arranged so that any routine operation carried out on the other services will not cause damage to the electrical services.

Separation of communication cables from electrical cables shall comply with AS/NZS 3000