1002.03 LANTERN MOUNTING HEIGHT

Ten meter high poles shall be used for all parking lot areas. Lantern configuration and light distribution shall be selected to suit the parking area geometry.

1002.04 LANTERN SELECTION

Lanterns shall be as detailed in the General Specifications and Table 1000.01.

1003 SIDEWALK LIGHTING

1003.01 GENERAL

Sidewalk lighting provides visually pleasant and decorative illumination to sidewalks adjacent to buildings, to buildings themselves and to the other pedestrian walkways.

1003.02 ILLUMINATION REQUIREMENTS

Light source will be high pressure sodium per Table 1000.01 unless otherwise directed by the Municipality. Sidewalk lights will be provided only for the areas specifically advised by the Municipality.

1003.03 LANTERN MOUNTING HEIGHT

Sidewalk light poles shall generally be 4.6 meters high with 2-100 watt high pressure sodium lanterns. However, special pole heights and lantern types may be required to meet special situations. The Project Design Manager should consult the Municipality as to the exact nature of the requirements at the time of concept planning.

1003.04 LANTERN SELECTION

Ornamental lighting of proper height for the pedestrian is proposed for sidewalks along buildings and in parks and landscaped areas. Low-level ground lights would be used to illuminate vegetation.

1004 LIGHTING CONTROLS

1004.01 GENERAL

These items provide required electrical connections and controls to all roadway lighting, decorative lighting and street furniture lighting items (i.e. bus shelters, telephone booths and sidewalk lights).

1004.02 LIGHTING CONTROLLER REQUIREMENTS

Lighting shall be controlled by a 24 hour timing switch. Control cabinet requirements shall be as specified in the Standard Specifications.

1004.03 DESIGN STANDARDS AND PROCEDURES

Control cabinets should be located in the median where feasible. The maximum voltage drop in the outgoing circuits beginning at the control cabinet shall be four percent. Branching of underground cable circuits from all lighting units except 4.6 m poles will be allowed. There shall not be any intermediate joints in the lighting cable circuitry except the terminations in the lighting units or in the junction boxes.

1005 POWER DISTRIBUTION

Electric service is 415/240 volts, three-phase, four-wire, 50 Hz system furnished by the Water and Electricity Department (WED). This service shall be provided at the lighting control cabinets. Underground distribution to the lighting units utilizes four conductor and steel wire armored XPLE insulated cables. Conductor size will be 25 mm^2 for all 30.5 and 14 m light poles and 16 mm^2 for all 10 and 4.6 m poles, street furniture and decorative lighting units. The lanterns will be connected in phase sequence to provide a balanced three-phase load.