1.0 GENERAL

1.1 Related UBC Guidelines

.1 Division 26, Section 33 71 00 Electrical Utility Transmission and Distribution
.2 Division 10, Section 1 Room Requirements
.3 Divisions 27 and 28

1.2 Coordination Requirements:

.1 UBC Building Operations Electrical Technical Support
.2 UBC Energy & Water Services
.3 UBC Information Technology

1.3 Description


2.0 MATERIAL AND DESIGN REQUIREMENTS

2.1 General Requirements

.1 Engaged Consultants supplies the University at the preliminary stage of the building project, a Development Brief which contains information listed below:

.1 Preliminary drawings clearly defining scope of work and equipment details.
.2 Specifications of all electrical systems and equipment.
.3 Power Riser Diagram.
.4 One Line Diagram.
.5 Fire Alarm Riser Diagram.
.6 Building area access routes for service of installed systems.
.7 Emergency Lighting System equipment details.

2.2 Off Site and Site Services

.1 Through discussion with UBC Energy & Water Services the Design Development Brief shall include:

.1 Underground duct system tie-in to existing duct or manhole.
.2 Expected peak demand, in KVA.
.3 Manhole size and approximate location, drainage provision.
.4 Number, size and type of power cables and neutral.
.5 Number of ducts in each duct bank.

2.3 Building Service

.1 The Design Development Brief shall include the following Building Service information:

.1 Size and location of main electrical and sub electrical rooms and distribution centers.
.2 Power switching components.
.3 Power transformer types and sizes.
.4 Secondary voltages.
.5 One line diagram including secondary distribution board, sub distribution centers, motor control centers, and risers.

2.4 Other Services

.1 The Design Development Brief shall include the following other information:

.1 Fire alarm and building alarm components and supervisory equipment.
.2 Communication rooms size and location.
.3 Other services to be provided such as clocks, bells, telephone/data outlets, TV outlets, closed circuit television system, P/A system, emergency lighting and standby generator.
.4 Type of interior, exterior lighting fixtures and poles.

2.5 Construction Power

.1 The Consultant obtains from UBC Energy & Water Services, the location and voltage level for construction power.

.2 The Design Development Brief shall include the following construction power information:

.1 The Consultant provides in his design, a drawing showing the basic equipment and wiring for the service.

.3 Construction power consumption and all associated equipment and installation material and labour shall be paid for by the project.