1.0 SYSTEM REQUIREMENTS

.1 Low Voltage Control

.1 BCIT has existing master lighting control system through the campus-wide Building Management System. Utilize the master lighting control wherever possible to control:

.1 Corridors.

.2 Washrooms.

.3 Entrances.

.4 Exterior lighting.

.2 Consideration to wireless solutions should be evaluated. Coordinate with BCIT.

.2 Switches

.1 Multi-Zone: Open areas and large rooms shall have multi-zone switching with each zone being a maximum of 232 SM.

.2 Where multi-level switching or dimming is provided, maintain uniformity of lighting for each lighting level.

.3 Lighting shall be turned ‘ON’ and ‘OFF’ by local switching, except where vacancy sensors used.

.3 Occupancy Sensors

.1 Ensure availability of sensors using passive infrared, ultrasonic, acoustic, and multi-technology adaptive technology.

.2 Use occupancy sensors to activate lighting after hours.

.4 Vacancy Sensors

.1 Dual technology ultrasonic and infrared sensor.

.2 In unoccupied spaces, use vacancy sensors to turn lighting ‘OFF’.

.5 Local Control

.1 Individual space control.

.2 Master override.

2.0 MANUFACTURERS

.1 General

.1 Ensure control system is by a single manufacturer and assembled from compatible components.

.2 Acceptable Manufactures:

.1 Douglas.

.2 Lutron.

.3 Eaton.

.2 Materials

.1 Integration with Building Automation System (BAS). Review integration with BCIT facilities.

.2 Product protocol: Native BACnet.

.3 BACnet IP Network wiring specification: Cat 6 UTP - FT6 cable.

*** END OF **LIGHTING CONTROLS** SECTION ***