1.1 **GENERAL**

1.2 **Related Technical Requirements**

1.3 **Coordination Requirements**

1.4 **Description**

2.1 **MATERIAL AND DESIGN REQUIREMENTS**

2.1.1 Design should be developed together with SFU campus development intent and input.

2.1.2 For each project, exterior lighting must be provided for all roadways, plazas, walks, steps, etc., to a level sufficient to meet safety requirements of all users, but as a minimum to meet IESNA published standards where available. Where public use of the project at night is required, this lighting shall extend beyond the boundaries of the project site to include contiguous access and parking areas.

2.1.3 Lighting design shall incorporate the principles of sustainability and its products and systems shall be energy conserving, long life, have a low cost of ownership and shall be easily and safely accessible for service and maintenance. If special equipment is required for lighting maintenance, then the consultant shall, prior to tender, prepare and submit a Lighting System Maintainability Plan to SFU for review and approval and it shall contain documentation describing the special equipment and a maintenance schedule and spare parts list.

2.1.4 Exterior lighting is supplied with electrical energy from nearby buildings. For each project where existing exterior lighting will be impacted by planned new construction, the new project scope shall include all needed adjustments, removals or relocations to the existing systems to ensure continued operation of existing exterior lighting systems beyond the project boundaries, as well as new exterior lighting for the new project. The scope for remediation of existing lighting systems shall be as per the original design intent.

2.1.5 Lighting equipment shall be vandal proof by use of proper design and sufficient mounting height.

2.1.6 Building highlighting/floodlighting is discouraged.

2.1.7 Landscape (garden-shrub-lawn) type lighting is not acceptable.

2.1.8 Exterior lighting shall be arranged for full automatic operation and shall be controlled by the BMS system.

2.1.9 Where feasible, floodlighting of high quality, low glare design installed on building areas inaccessible to the public can be used.
.10 In all cases, lamps of low energy input-high lumen output with appropriate color rendition shall be used. Refer to SFU Project Guide Part C – Lighting – Exterior for additional details.

.11 Preferred line of light poles shall be Cree Edge Series.

.12 Poles shall be steel and be painted with one coat of primer and 2 coats of paint.

.13 Poles complete with luminaries shall be able to withstand 160 km/h winds.

.14 Poles and bollards exterior lighting shall be controlled by SFU wireless clock transmitter.

***END OF SECTION***