

## 1.0 **GENERAL**

### 1.1 **Related UBC Guidelines**

- .1 Division 26

### 1.2 **Coordination Requirements**

- .1 UBC Facilities Electrical (Vancouver)
- .2 UBC Energy & Water Services (Vancouver)
- .3 UBC Facilities Management (Okanagan)

### 1.3 **General**

- .1 The University has adopted a series of standards covering various electrical components such as manholes, duct systems, lighting poles, etc.
- .2 These Standard Drawings can be found in this [PDF document](#).
- .3 Wherever applicable, these standards shall be used on University work.
- .4 Any electrical civil standard not listed below shall be performed to MMCD and CEC specifications.

### 1.4 **Index to Standard Electrical Drawings**

AutoCAD files can be found on the Technical Guidelines website under Division 26.

| <b><u>Drawing No.</u></b> | <b><u>Description</u></b>   |
|---------------------------|---|
| E1-1                      | Single line diagram. Distribution systems 12 KV dual radial feeders typical building supply ( <a href="#">Vancouver</a> ) |
| E1-2                      | Electrical unit substation one line diagram ( <a href="#">Vancouver</a> )   |
| E1-2b                     | Electrical outdoor unit substation one line diagram ( <a href="#">Vancouver</a> )   |
| E1-2c                     | Outdoor substation general layout ( <a href="#">Vancouver</a> )   |
| E1-3                      | Electrical unit substation key interlocks ( <a href="#">Vancouver</a> )   |
| E1-4                      | Typical electrical room layout ( <a href="#">Vancouver</a> )  |
| E1-5                      | Jurisdictional block diagram ( <a href="#">Vancouver</a> )  |
| E1-6                      | Unit substation feeder transfer control box ( <a href="#">Vancouver</a> )   |
| E2-1                      | Standard concrete-encased electrical ductbank ( <a href="#">Vancouver</a> )   |
| E2-2                      | Standard electrical service conduit directly buried ( <a href="#">Vancouver</a> )   |
| E2-3                      | Standard electrical ductbank concrete encased ( <a href="#">Vancouver</a> )   |
| E2-4a                     | Electrical ductbank clearances to DES Hot Water Lines ( <a href="#">Vancouver</a> )                                       |
| E2-4b                     | Electrical ductbank clearances to DES Hot Water for 600 volts or less ( <a href="#">Vancouver</a> )                       |
| E2-4c                     | Electrical ductbank clearances to DES Hot Water for 12,000 volts or less ( <a href="#">Vancouver</a> )                    |

| <u>Drawing No.</u>    | <u>Description</u>  |
|-----------------------|---|
| E3-1                  | Standard electrical precast manhole ( <a href="#">Vancouver</a> )   |
| E3-2                  | Standard electrical manholes pour in place ( <a href="#">Vancouver</a> )  |
| E3-3                  | Additional reinforcing for pour in place electrical manholes ( <a href="#">Vancouver</a> )  |
| E3-4                  | Standard electrical manhole cover and riser details ( <a href="#">Vancouver</a> )   |
| E3-5                  | Standard electrical manhole sump detail ( <a href="#">Vancouver</a> )   |
| E3-6                  | Typical manhole grounding and details ( <a href="#">Vancouver</a> )   |
| E3-7                  | Typical manhole separations ( <a href="#">Vancouver</a> )   |
| <a href="#">E3-8</a>  | <a href="#">Standard Manhole Cable Support Detail (<a href="#">Vancouver</a>)</a>   |
| E4-1                  | Cable identification tags 12 KV ( <a href="#">Vancouver</a> )   |
| E4-2                  | Mounting and shield grounding details for splices between 2 (or more) 15 KV 'X' - Link 500 MCM & 4/0 cables ( <a href="#">Vancouver</a> )         |
| E4-4                  | Schneider Electric PM8240 meter 120/208V, 3 phase, 4 wire system. 3 element wiring connection diagram ( <a href="#">Vancouver</a> )               |
| <a href="#">E4-5a</a> | <a href="#">Schneider Electric PM8240 meter 347/600V, 3 phase, 4 wire system. 3 element wiring connection diagram (<a href="#">Vancouver</a>)</a> |
| <a href="#">E4-5b</a> | <a href="#">Schneider Electric PM8240 meter 600V, 3 phase, 3 wire system. 2 element wiring connection diagram (<a href="#">Vancouver</a>)</a>     |
| <a href="#">E4-5c</a> | <a href="#">Setra Networked Multi-circuit power meter 208V or 600V wiring connection diagram, 4-wire system (<a href="#">Vancouver</a>)</a>       |
| <a href="#">E4-5d</a> | <a href="#">Setra Networked Multi-circuit power meter 600V wiring connection diagram, 3-wire system (<a href="#">Vancouver</a>)</a>               |
| E4-6                  | Water and gas meter integration into electrical metering system, tenant and core buildings ( <a href="#">Vancouver</a> )                          |
| <a href="#">E4-6c</a> | <a href="#">District Energy System Metering ION Network Interface (<a href="#">Vancouver</a>)</a>   |
| E10-2                 | Interior Wiring Systems, Standard Transformer and Panel Identification  |
| E11-1                 | Fire Alarm System Monitoring Equipment Installation   |
| E12-1                 | Exterior Lighting and Receptacle Control  |

\*\*\*END OF SECTION\*\*\*