

## 1.0 **GENERAL**

### 1.1 **Related UBC Guidelines & Documents**

- .1 Section 20 00 05 Mechanical - General Requirements
- .2 Section 22 00 00 Plumbing (and all subsections)
- .3 Section 33 49 00 Storm Drainage
- .4 All other Tech Guidelines as may be applicable to a given project.

### 1.2 **Related Documents External to UBC**

- .1 BC Plumbing Code and all references contained there within
- .2 BC Building Code and all references contained there within
- .3 Work Safe BC Occupational Health and Safety Regulation

### 1.3 **Description**

- .1 The Guidelines apply to all work completed within buildings on both UBC Vancouver and UBC Okanagan campuses unless stated otherwise.
- .2 In instances where conflicts are found between these guidelines and provincial regulations or codes, please notify UBC Mechanical Engineer.
- .3 These guidelines are intended to be read by designers and their content integrated into construction drawings and specifications. Construction documents are not to reference the technical guidelines directly.
- .4 It is the requirement of the mechanical designer to coordinate these requirements with other disciplines.

## 2.0 **MATERIAL AND DESIGN REQUIREMENTS**

These are requirements specific to UBC that may not exist in code or other jurisdictions. Any deviation from these guidelines requires a variance be granted.

### 2.1 **Design Requirements**

- .1 Refer to section 33 49 00 for more information on parkade drainage
- .2 Refer to section 22 30 00 for requirements for sump pumps.

### 2.2 **Construction and Material Requirements**

- .1 Acceptable piping systems
  - .1 Storm Above Grade
    - .1 Cast Iron
    - .2 Copper
  - .2 Insulation:
    - .1 Storm piping shall be insulated where there is the potential for condensation or freezing to occur. Including:
      - .1 Underside of roof drain body

- .2 Rainwater piping for 5m from drain
  - .3 Plumbing vents within 2m of roof/wall penetration
  - .4 Traps subject to freezing
- .3 Perimeter drainage
- .1 Perforated PVC Pipe (non-flexible)
- .4 *All roof drains shall have metal grates or leaf guards; plastic is not acceptable.*

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