1.1 GENERAL

1.2 Related Technical Requirements

.1 Section 23 21 05 District Hot Water Heating System

1.3 Coordination Requirements

.1 Coordinate with SFU Facilities.
.2 Coordinate with other design disciplines.

1.4 Description

.1 Additional Pipe and Pipe Fittings design requirements.
.2 Specify threaded pipe up to maximum of 2” diameter. Piping larger than 2” diameter must be welded.

2.1 MATERIALS AND DESIGN REQUIREMENTS

.1 All piping and fittings shall comply with the British Columbia Building Code 1998, Part 7, and Plumbing Services which outlines acceptable material for the various plumbing systems required. Refer to other sections within this document for material that are restricted at SFU but acceptable in the Plumbing Code.

.2 Pipe Flange Connections/Unions
   .1 All bolts and studs to shall be lubricated prior to installation using Loctite Silver Grade Anti-Seize or equivalent.
   .2 Isolation valves, unions and/or flanges, shall be provided so as to permit servicing and/or repair of all equipment. The isolation valves shall be of good quality and of one manufacturer for the entire project.
   .3 Specify rising stem valves (OS&Y) where safety of occupants and operators would be enhanced by such a valve.

.3 Steam Piping, Fittings and Valves
   .1 All components of steam and condensate piping before building PRV shall have at least 150 lbs, 1300 kPa RF USAS, and rating (at 200 º C).
   .2 All underground piping larger than 1” (25 mm) diameter shall be welded. Socket fittings not acceptable.
   .3 All condensate piping shall be schedule 80 for sizes 50 mm and larger and schedule 160 for smaller sizes.
   .4 Provide isolation valves on all equipment and on all floor piping for heating, cooling, domestic hot & cold, steam and condensate.
   .5 All isolation valves shall be 2” and under and shall be ball valves.
   .6 All butterfly valves to be studded.

.4 Sidewalk cleanout caps to be Zurn model CO-2521 or equal. Install flushed with finished surface.

***END OF SECTION***