PART 1: GENERAL

1.01 Purpose:

A. This standard is intended to provide useful information to the Professional Service Provider (PSP) establish a basis of design. The responsibility of the engineer is to apply the principles of thi section such that the University may achieve a levquafity and consistency in the design and construction of their facilities. Deviations from these guidelines must be justified through LCC analysis and submitted to the University for approval.

1.02Codes and Standards:

- A. Plumbing Code ComplianceComply with applicable portions of International Plumbing Code pertaining to selection and installation of Plumbing materials and products.
- B. Plumbing and Drainage Institute: W2±01.
- C. ASSE 1013 Performance Requirements for Reduced Presistational Preventers.
- D. ASSE 1003 Performance Requirements for Water Pressure Reducing Valves.
- E. ASME Boiler and Pressure Vessel Code
- F. HI Compliance: Design, manufacture, and install plumbing pumps in accordance with "Hydraulic Institute Standards".
- G. UL Compliance: Design, manufacture, and install plumbing pumps in accordance with UL 778 "Motor Operated Water Pumps".
- H. SSPMA Compliance: Test and rate sump and sewage pumps in accordance with SUMP and Sewa Pump Manufacturers Association (SSPMA) and provide certified rating seal.
- I. ANSI 21.22 Relief Valves for Hot Water Supply Systems

1.03 Requirements:

- A. Provide water hammer arrestors, complete with accessible isolation valve, in hot and cold water line at the end of each battery of plumbing fixtures and at each plumbing fixture location remote from a battery of fixtures. Size in accordance with PDI-20H.
- B. Isolate domestic water lines for building services from cross connection by means of product backflow preventer. Provide additional backflow prevention devices in process water connections off the main building service.

- B. Pipe sizes 3" to 6" shall be Type K copper with soldered silver phosphate connections. Copper piping 4" and larger may be joined in grooved fittings and rubber on goined using a hydraulic compression tool. NO 2 ½" Pipe Allowed
- C. Piping larger than 6"shall be ASTM A53 galvanized steel pipe, schedukeit#0 olled grooved ends and mechanical couplingsNO SEAMED PIPE
- D. Exterior below grade or below concrete slab equipment or fixture supply feeds: Piping shall be Typ K copper, softannealed temper, with wrought copper fittings and lead freerjgintResidence Life Maintenance will not allow below grade under slab water supply.
- E. Below building concrete slabT-ube size 3/4" and larger: type "K" soft annealed copper coil tubing. Copperl3.2(ow)14(c)-u4(ht)-3.2(c)-3.9(opp)10.4(e)6.5(r f)10.1ppll10.2()]TJ 0 Trrr g0(g.)]TJ 0

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5. Cover: Castiron or steel circular cover with manhole or handle opening, depending on