

WVU DESIGN GUIDELINES & CONSTRUCTION STANDARDS
DIVISION 22 – PLUMBING

SECTION 221116 – DOMESTIC WATER PIPING

PART 1 - GENERAL

- 1.1. Any deviance from the following instructions must be approved during design by WVU Facilities Management personnel.

PART 2 - PRODUCTS

- 2.1. Water distribution piping above ground shall be hard drawn Type L copper. Fittings shall be wrought copper or cast copper alloy.
- 2.2. Reverse osmosis and distilled/de-ionized water piping shall be Schedule 80 PVC (ex. Harvel LXP) or polypropylene (ex. Poly Pro 150) plastic pipe and fittings. Connections shall be made based on the manufacturer's recommendations.

PART 3 - EXECUTION

- 3.1. Threaded dielectric nipples shall be used to join all pipes of dissimilar metal construction. Standard dielectric unions with gaskets shall not be used.
- 3.2. Copper crimping is an acceptable method of joining copper tubing and fittings.
- 3.3 All joints on copper pipe 2.5" diameter and larger shall be brazed or crimped instead of soldered.
- 3.4. Solder joints shall be made with no-lead solder.
- 3.5. If available, use campus steam to provide domestic hot water. Steam powered instantaneous water heaters must be used.

END OF SECTION 221116