

# WVU DESIGN GUIDELINES & CONSTRUCTION STANDARDS

## DIVISION 22 – PLUMBING

### SECTION 220500 – COMMON WORK RESULTS FOR PLUMBING

#### **PART 1: GENERAL**

- 1.1. Any deviation from the following instructions must be approved during design by WVU Facilities Management Personnel.
- 1.2. All utility interruptions and tie-ins shall be coordinated with WVU Facilities Management. Please provide 5 working days notification.
- 1.3. DELETED, moved to section 221116.

#### **PART 2: PRODUCTS**

- 2.1. Upon project completion, all as-built drawings will be delivered to the owner in latest AutoCAD version on CD-ROM as well as hard copies. Hard copies will be printed using the permanent “Xerox” style ink.
- 2.2. Contractor shall mount 24” x 36” Xerox hard copy project drawings of mechanical room equipment in each mechanical room. Each drawing shall be mounted under plastic, framed, and rigidly affixed to the wall in a conspicuous location.
- 2.3. Design calculations shall be furnished at the 35% design stage. Calculations shall be detailed enough to give WVU personnel a good understanding of how the designer arrived at their conclusions. Include projected energy use per year and projected peak flows.
- 2.4. Life cycle cost analysis shall use a 25-year period. Such analysis shall be performed to determine equipment selection.

#### **PART 3: EXECUTION**

- 3.1. Water piping containing glycol may be buried no less than 24” from top of pipe to grade level.
- 3.2. Non-metallic below grade piping shall be equipped with metallic tracer wire. All piping shall be marked by warning tape. Warning tape shall be 12” below the surface of the ground and at least 12” above the pipe. Metallic warning tape is an acceptable alternative to tracer wire.

3.3. All pipes shall be labeled showing full descriptive words and arrows indicating flow direction. Such labels shall be provided on straight runs, at valves, and where passing through walls and floors.

END OF SECTION 220500