

PART 1 - GENERAL

1.01 DESIGN REQUIREMENTS

A. General:

1. Backflow prevention shall be provided on all domestic water systems connections except for plumbing fixtures.

B. Design Considerations:

1. At the water main entry to the building, design and install two premises isolation backflow prevention assemblies in parallel, to ensure continuous operations when a backflow prevention assembly must be maintained or repaired.
2. An air gap drain for a Reduced Pressure Backflow Prevention Assembly (RPBA) shall be used and run to the sanitary sewer.
3. Backflow Protection Assemblies shall be installed in a protected equipment space, preferably the mechanical room of the facility they are serving.
4. No backflow prevention assembly shall be installed more than five feet above finish floor.

PART 2 - PRODUCTS

2.01 PRE-APPROVED MANUFACTURERS

- A. Select all backflow preventions assemblies from the current list approved for use by the Washington State Department of Health, or in the current USC list of approved backflow prevention assemblies. The following manufacturers are acceptable; any other manufacturer requires approval by the WSU Project Manager and Engineering Services:

1. Febco
2. Watts

PART 3 - EXECUTION

3.01 FIELD QUALITY CONTROL

- A. Assemblies shall be designed and installed in strict accordance with manufacturer's recommendations with proper clearances for testing and servicing.

- B. All water faucets and hose bibs on non-potable water shall have signs posted stating "Non-Potable Water. Do not drink."
- C. WSU Cross-Connection Control Specialists shall review and approve all installations of backflow prevention assemblies, per WAC 246-290-490.
 - 1. Notify WSU Construction Manager and Cross-Connection Control Specialists at least 48 hours prior to backflow prevention assembly testing.
 - 2. Provide copies of the backflow prevention assembly testing results to the WSU Construction Manager and Cross-Connection Control Specialists.

END OF SECTION