

PART 1: GENERAL

SHSU must comply with current SECO Requirements. SHSU does not currently have a purple pipe system in place.

1.01 Purpose:

This standard is intended to provide useful information to the Professional Service Provider (PSP) to establish a basis of design. The responsibility of the engineer is to apply the principles of this section such that the University may achieve a level of quality 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.

1.02 References:

- A. ASTM F441 – Standard Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe, Schedules 40 and 80.

1.03 Requirements:

- 1. ALL WATER RECOVERY PIPE SHALL BE PURPLE PIPING
 - A. “Fin Water” shall be defined as water that drips off the fins of cooling coils in the HVAC system. The term “condensate” refers to the steam system.
 - B. SHSU does not currently collect fin water:
 - C. Stormwater collection shall comply with current SECO Requirements.
 - D. Where perimeter drainage systems exist or where installed due to site drainage issues, the PSP shall evaluate the potential of perimeter drain water recovery. Such water shall only be used for on-site irrigation.
 - E. Oversize recovered water piping due to potential scaling issues.
 - F. Provide recovered water piping with steel sleeve where routed in footpath or in other exposed areas where piping could be damaged.
 - G. Provide pipe labels to say "Recovered Water every 50 feet in the mains; fin water piping should be labeled "Fin Water" every 50 feet until it joins a source that is not fin water (e.g., once through recovery).
 - H. Provide shutoff valves (bronze gate for sizes 4" and larger) at all sides of a tee connection. No Gate Valves, butterfly valves only.
 - 1. RLM prefer ball valves

- I. All source connections should be hard-plumbed to prevent introduction of oil, solvents, trash, etc., into system

PART 2: PRODUCTS

2.01 Piping:

1. ALL WATER RECOVERY PIPING SHALL BE PURPLE PIPING
 - A. Recovered water piping shall be schedule 40 Chlorinated Polyvinyl Chloride (CPVC) piping.
 - B. Provide steel sleeve on exposed recovered water piping routed in footpath and on any exposed piping within 4' of finished floor.

2.02 Tanks:

- A. Recovered water tanks shall be polyethylene or fiberglass, drainable, and completely opaque to prevent light from entering.
- B. Provide with inlet screens to prevent debris from entering tank.
- C. Provide with automatic overflow drainage to prevent water from backing up in system.

END OF STANDARD