

22 50 00 Pool and Fountain Plumbing Systems

Revision 01/04/2019

Purpose:

The Architect and/or Engineer shall incorporate the Rice specific requirements indicated in this standard's section into their design. The Architect and/or Engineer shall further produce project specifications in line with industry standards that are updated to reflect these Rice specific requirements.

1. General Requirements

- a. Architects proposing installation of new exterior fountains or water features shall provide Rice with a fully vetted life-cycle and maintenance cost analysis prior to approval by Rice Project Manager.
- b. Fountains and the mean for draining the fountains shall be developed by 50% Design Development.
- c. Fountains shall be designed for the use of chlorine tablets (do not use liquid chlorine systems)
- d. Mount fountain controllers inside buildings.
- e. Piping: use schedule 80 PVC.
- f. Filters
 - i. Rice preference is for sand filtration. Sand filtration shall have backwash hard-piped to drain.
 - ii. Cartridge filtration systems will only be considered when hard-piped backwash is not possible. This will require approval of the Rice Project Manager prior to the start of design.
- g. Fill system shall have alarms for high level and overflow connected to the Building Automation System.
- h. Architect shall meet with Rice Project Manager and University Engineer to determine whether the fountain pump should be metered separately and if it shall be controlled via BMS. The decision shall be accomplished by 50% Construction Documents.
- i. Fountains shall be configured to be easily shut down and drained during periods of drought.