

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Trenching.
 - 2. Piping and Fitting.
 - 3. Valving.
 - 4. Assemblies
 - 5. Automatic Controllers.
 - 6. Specialties.
 - 7. Wiring.
 - 8. Sprinklers.
 - 9. Cleanup.
 - 10. Connections to existing mains or municipal water systems.

PART 2 - PRODUCTS

2.1 BACKFLOW PREVENTION DEVICE (USED ONLY WHEN IRRIGATION SYSTEM POC IS POTABLE WATER SOURCE)

- A. Backflow preventers shall be one of the approved reduced pressure principle devices listed by the California Department of Health Services, Division of Drinking Water and Environmental Management, 601 North 7th Street, Mailing Station (MS) 92, P.O. Box 942732, Sacramento, CA 94234-7320.
- B. Irrigation piping PVC schedule 40 3" or larger shall have slip-joint connections. Piping 3" or smaller shall have glued connections

2.2 VALVES

- A. Isolation Valves:
 - 1. Isolation valves smaller than 3":
 - a. Schedule 80 PVC true union ball valves.
 - b. 150 PSI at 73°
 - c. Full ported.
 - d. Manufacturers: Chemtrol Division of Nibco Inc. model Tru-Bloc, Spears model Multi-Featured Industrial Valve, or approved equal.
 - 2. Isolation valves 3" and larger:
 - a. 125-1b. SWP bronze gate valve with threaded ends.
 - b. Bronze hand wheel.
 - c. Screw-in bonnet.
 - d. Non-rising stem.
 - e. Solid wedge disc.
 - f. Manufactured by Nibco Inc., or approved equal.

2.3 SPRINKLER HEADS

- A. Based on system design.

PART 3 - EXECUTION

3.1 GENERAL

- A. Before any work begins, a conference shall be held with the University and the Design/Builder regarding general requirements for the project.
- B. Exercise extreme care in excavating and working near existing utilities. Check existing utilities Drawings for existing utility locations. Before excavating, call Facility Services for mark out. (760-750-4600)
- C. Flushing of System
 - 1. After all new sprinkler pipe lines and risers are in place and connected, and prior to installation of sprinkler heads, the control valves shall be opened and full head of water used to flush out the system.
 - 2. Sprinkler heads shall be installed only after flushing of the system has been accomplished to the complete satisfaction of the University.

3.2 OBSERVATION SCHEDULE

- A. Design/Builder shall be responsible for notifying the University in advance for the following observations according to the time indicated:
 - 1. Pre-job Conference - Seven days.
 - 2. Pressure supply line installation and testing - 48 hours.
 - 3. Automatic controller installation - 48 hours.
 - 4. Control wire installation - 48 hours.
 - 5. Lateral line and sprinkler installation - 48 hours.
 - 6. Coverage test - 48 hours.
 - 7. Final observation - Seven days.

3.3 3.3 IRRIGATION CONTROLLERS

- 1. Calsense ET2000 controllers. Controller installer shall be certified by Calsense.

END OF SECTION