

SECTION 02810– IRRIGATION SYSTEMS
CONSTRUCTION STANDARD

PART 1: GENERAL

1.01 Scope of Standard

- A. This standard provides general guidance concerning the specific preferences of the University of Texas at Austin for piped underground or surface systems with piping, sprinkler heads, valves, and controls.
- B. UT recognizes that project conditions and requirements vary, thus precluding the absolute adherence to the items identified herein in all cases. However, unless there is adequate written justification, it is expected that these guidelines will govern the design and specifications for UT projects.
- C. Irrigation systems shall be supplied from COA mains through a separate water meter from domestic water, unless otherwise directed by Owner.
- D. The minimum available COA water pressure can be assumed to be 60 psi at elevation 550 feet above sea level. This is in the UT mains, before any backflow-prevention devices. Water pressure drops by 1 psi for every 2.3 feet of elevation increase. City water pressure can vary by more than 17 psi over a 3-day period.
- E. Include a 2" pressure gauge, 0 to 100 psi, on the irrigation header downstream of any backflow-prevention device.

1.02 Quality Control

- A. Irrigation System: All irrigation system equipment must be compatible with Rain Bird Maxicom.
- B. All irrigation systems must be coordinated with the UT-Austin campus computer system communications network for operations. Therefore, a telephone connection must be provided to the irrigation controller.

1.03 General Requirements

- A. Irrigation Room: It is preferred that there be a designated room, with access to the exterior, to contain the building site's irrigation system valves and controllers. If not possible to provide this room, it is preferred that the valves be clustered together below grade, or mounted out of view on the side of the building. The valves must be freeze protected at these locations. It is also preferred that the controllers be located nearby. Provide an electric disconnect near the controller
- B. Design criteria: It is preferred that the appropriate UT-Austin Landscape Services personnel review design documents prior to the completion of the documents.
- C. Where appropriate to the application, it is preferred that Low -angle sprays be utilized as much as possible in an effort to prevent water overspray.

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PART 2: PRODUCTS

2.01 Sprinkler Heads

- A. Sprinkler heads shall be manufactured by Rain Bird, an equal or better. Piping shall be schedule 40 PVC, and valves must be constructed of brass. All heads should be installed on swing joints.

2.02 Irrigation Room Manifold

- A. Approved material for fabrication of the irrigation manifold in the irrigation room is copper. The manifold should consist of automatic brass valves with pressure regulation for each irrigation section, a brass master control valve, a back flow preventer, flow sensor, pulse decoder, and pulse transmitter

PART 3: EXECUTION – NOT USED

END OF STANDARD 02810