

**SECTION 02815– FOUNTAINS**  
**CONSTRUCTION STANDARD**

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**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 fountains.
- 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.

1.02 Related Standards

- A. Section 15490 – Fountains.

1.03 Reference Standards

- A. Electrical: Refer to the appropriate sections in Division 16 of this document for general guidance concerning the specific preferences of UT-Austin for the installation of electrical work for fountains.
- B. Equipment: Refer to Section 15490 of this document for fountain equipment.

1.04 Quality Control

- A. Foundations: Proper geotechnical research and recommendations must be obtained and adhered to as is required with buildings.
- B. All piping should be as follows:
  - 1. PVC (SCHD 80)
  - 2. Stainless steel (316 or better)
  - 3. If fountain is to be chlorinated:
    - 316L or PVC below water line and galvanized and painted steel or PVC above water line.
- C. Planting: It is recommended that no trees, shrubs, or other planting which will develop a large and/or deep root system be placed within 25' of any fountain.

1.05 General Requirements

- A. Fountain foundations must have required compacted base material and other methods required to avoid any movement which will damage the integrity of the fountain.
- B. Drainage: It is preferred that a below grade french drainage system be provided for fountains that do not have an adequate water runoff surface (paved, etc.) at

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it's exterior perimeter. It is also recommended that a surface drainage system be provided at the fountain's exterior perimeter.

- C. Decorative fountains need automatic water-level controls and water meters in makeup lines.
- D. Fountains shall be supplied with "irrigation water" for makeup.

**PART 2: PRODUCTS**

2.01 General

- A. Final waterproofing membrane within the fountain shall be 8000 psi or greater (high tensile strength) "Fibre Tech" or equal, and installed as per the manufacturer's recommendations.
- B. Piping: As, in time, all cast iron and cast steel piping which is placed underground disintegrates, it is a mandatory UT specification that all underground piping be schedule 80 PVC.
- C. Lights: Any lights must be shockproof even if damaged.

**PART 3: EXECUTION**

3.01 General

- A. It is recommended that a "waster" or "mud" slab be incorporated into the design and construction of the fountain.
- B. Waterproofing: It is preferred that a liquid applied membrane be poured atop the "waster" or "mud" slab, and cured as per the manufacturer's recommendations prior to placing the fountain structural slab.
- C. Construction joints: It is preferred by UT-Austin that all construction joints within a fountain be filled with a proper sealant (as per manufacturer's recommendations) in lieu of a grout mixture. UT-Austin, at times, introduces chlorine into fountains, which after a period of time will disintegrate a grout application.
- D. If stone is used for any portion of fountain which contacts water, use a stone that does not react w/ chlorine.

END OF STANDARD 02815