

# **PERMA BASIN INSTALLATION SPECIFICATIONS**

**1.0 General:** As a part of the golf course construction or renovation, select drainage components shall be installed in accordance with the following Specifications, Details, and/or Drawings. Perma Basin drain basins, as manufactured and supplied by The Turf Drainage Company of America (TDA) of New Orleans, Louisiana (800-999-2794), shall be the drain basin product utilized. All work described in these Specifications shall be completed by the Contractor.

**1.1 Selection of Basin Model:** Perma Basins are available in two models; a “B” model that has a molded plastic bottom that connects to a storm drainage riser pipe, and a plain model that sets directly on a landscape stone placed on the subgrade and connects through the sidewall. Selection of which type to be used is based on the height of the Perma Basin that is specified, and the depth of the storm drain pipe it is designated to tie into. Both models shall be installed in a 36” diameter excavated hole and backfilled with an approved sand, generally being a material with minimal silt and clay with a saturated hydraulic conductivity rate of 30+” per hour. The sand shall be compacted both mechanically and hydraulically to 6” below grade. The top 6” should be filled with a mix that has moisture retention of 15-18% and then sod should be placed around the basin.

**1.2 Installation of Perma Basin:** B model Perma Basins shall be installed as follows:

1. Using black PVC drainage tape, secure the bottom sleeve to the outside of the riser.
2. Insert the basin into the bag so that bottom of plastic hard bottom rests on the riser, and the hard bottom insert is inside of the riser pipe.
3. Use a flat head screw driver to drive the geotextile bag between the wire wall and upper frame.
4. Use black PVC drainage tape to cover any gaps that exist between the bag and the top frame.
5. Any additional piping that is entering this basin should enter through the universal sleeves that are located on the sidewalls. There are two sleeves that can be used to attach 4”, 6” or 8” pipe. When using these sleeves, wrap the sleeves around the pipe, and then use wire clippers to cut an opening out of the wire wall. Place the mouth of the pipe through the cylinder of the wall so that water will flow freely into the basin. Secure the sleeve around the pipes with black PVC drainage tape. If there are no pipes entering the basin at the time of installation, the universal sleeves should be wrapped with tape like a ponytail, to be available for future installations.
6. Sod around the basin. If sod work is not done immediately after the installation of the basin, a 15 inch square piece of a geotextile fabric should be placed on the top frame, and held in place by the placement of the grate on the frame until the area is sodded and stable.