



TALL POT INSTALLATION SPECIFICATIONS

Tall Pot Planting:

General:

The work under this item consists of furnishing all equipment, materials (with the exception of the tall pot plants), and labor necessary to complete the planting operation of tall pot plants, and maintaining the tall pot plants during the establishment period in accordance with plans and these special provisions.

Contractor shall be responsible for the transport of tall pot plants from the Flood Control District of Maricopa County's (District) nursery to the site. Installation to include planting of tall pot plants with DriWATER Irrigation Supplement, as specified, and performing all work required to install the tall pot plants in strict compliance with the Plans and Special Provisions. The Engineer shall approve all installation equipment and proposed installation methods prior to the Contractor commencing with the work identified in this Section. It is the Contractor's responsibility to assure that the approved equipment is available and on-site and that properly trained personnel are present to operate such equipment.

*If the Contractor does **NOT** have previous experience in installing tall pot plants for District projects, the Contractor's planting supervisor, foreman, and crew leaders shall attend an orientation at the District's Tall Pot Nursery no less than two weeks prior to when tall pot planting is scheduled to begin on site.*

The District will furnish all tall pot plants for use on the project. Tall pot plants shall remain at the District's nursery until twenty-four (24) hours prior to installation. Plants shall be placed adjacent to the tall pot pit after the pit has been properly augered, watered, and approved by the Engineer, as described below. Tall pot plant material shall not be transported from the District's nursery prior to tall pot pits being approved. By installing the tall pot tree, the Contractor is certifying that the pit has been excavated to the proper depth, has been properly watered within last 24 hours and has been approved by the Engineer.

The Contractor shall reimburse the District for any tall pot plants provided as replacements, throughout the duration of the contract, if it is determined by the Engineer that the tall pots were not installed and/or maintained in accordance with these Special Provisions.

Tall Pot Pit Excavation and Preparation:

Tall pot pits shall be sized per the details, unless otherwise indicated in the Plans and Special Provisions.

Existing vegetation shall be grubbed and cleared from within the proposed tall pot plant basin location to a distance no less than three (3) foot diameter or as indicated on the Plans. All pits shall be excavated to the detailed dimensions with the sides of pit roughened or scarified, as specified.

Any subsurface obstructions, materials, or substances which conflict with or impact the installation of plants or may be detrimental to plant health shall be excavated and removed. Nested or layered aggregate or other infertile materials located beyond the limits of the plant pit or within the potential root growth zone of the plants shall be considered a subsurface obstruction and removed as specified.

Backfill for tall pot pits may utilize on-site native soil, provided that the soil meets the specifications for Topsoil as described in *MAG Standard Specifications, Section 795.2* and these Special Provisions. In rocky site conditions, on-site native soils proposed for use plant pit backfill may be screened to meet the specifications for maximum aggregate content in topsoil.

The tall pot pit shall be filled with water and allowed to drain twice prior to installation of tall pot plant. Contractor shall notify Engineer if the pit does not drain within 48 hours.

Prior to installing tall pot plants, the Engineer will visually inspect the tall pot pits for proper size, depth and watering/drainage. The Contractor shall make all necessary arrangements with the Engineer to have the tall pot pits inspected and approved. Any tall pot pits rejected by the Engineer, shall be re-excavated by the Contractor and prepared for inspection and approval by Engineer at no additional cost to the project.

Where no irrigation system is provided, one (1) quart of DriWATER Irrigation Supplement or approved equal shall be poured into the pit during backfilling, and four (4) quarts of DriWATER Irrigation Supplement or approved equal shall be installed at grade level per the Plans and the manufacturer's recommendations.

Caliche or Hard Dig Conditions

In areas of caliche or in hard dig conditions, tall pot pits shall be over-excavated to a minimum depth of thirty-six (36) inches and a minimum width of forty-eight (48) inches, per plans. 20 pounds of gypsum shall be evenly added to the bottom of the pit, and the pit shall be backfilled and compacted to between 85% and 90% compaction prior to augering. One (1) quart of DriWATER Irrigation Supplement shall be poured into the bottom of the pit. The Contractor shall place the tall pot plant (still in PVC sleeve) into the prepared pit and verify that the plant has been installed at the proper depth, as identified in the Plans, prior to removing tall pot sleeve. Complete installation according to details. The Contractor shall ensure the proper placement of four (4) quarts of DriWATER Irrigation Supplement at grade level per the Plans and the manufacturer's recommendations. The tall pot pit shall be thoroughly watered at the end of each day's planting session.

Sandy Soil Conditions

In areas of very soft, sandy, cobble soils or where the tall pot pit collapses as the auger is removed, filling the hole with water prior to planting is not necessary. Alternatively, the tall pot pit shall be excavated to the existing soil's angle of repose at a depth of thirty-six (36) inches. The pit shall then be cleared to the bottom width dimensioned on the plans and one (1) quart of DriWATER Irrigation Supplement shall be poured into the pit and mixed with gypsum as noted. The Contractor shall place the tall pot plant (still in the PVC sleeve) into the pit and verify that the plant has been installed at the proper depth, as identified in the Plans, prior to removing tall pot sleeve. Backfill the pit with soil while concurrently removing the tall pot sleeve and filling the pit with water, thereby creating a backfill soil slurry. The Contractor shall ensure the proper placement of four (4) quarts of DriWATER Irrigation Supplement near the soil surface, per the Plans and the manufacturer's recommendations. The tall pot pit shall be thoroughly soaked at the end of each day's planting session.

Tall Pot Plant Watering:

Tall Pot Plants shall be thoroughly "soak watered" until water drips out the bottom of the sleeve at the nursery one (1) day prior to delivery to project site, and again at the project site immediately following delivery.

Once the tall pot plant has been installed and the pit has been back filled, the plant must be properly watered to remove all air pockets. Use of a water sprayer at the base of the plant is NOT an acceptable method for this step. At the end of each day's planting session, all installed tall pot plants must be thoroughly watered.

Tall Pot Plant Protection:

At the end of each day's planting session, and after final watering, all installed tall pot plants must be sprayed with Liquid Fence Deer and Rabbit Repellent, or approved equal, per the manufacturer's recommendations.

Tall Pot Plant Pre-Maintenance Inspection:

A pre-maintenance inspection will be performed upon substantial completion of all tall pot plant planting work under this contract. The Contractor shall be present at the inspection and a punch list of items requiring remedial work shall be generated. Upon completion of the punch list items and approval by the Engineer, the 90-day maintenance/establishment period will begin.

Tall Pot Plant Maintenance:

Unless otherwise authorized, the Contractor shall maintain and be responsible for all landscape areas and materials on a continuous basis as installations are completed during the course of work and until final project acceptance.

All tall pot plants shall be kept in a healthy, growing condition by application of DriWATER, liquid fence spraying, weeding, and any other necessary operations or maintenance. Tall pot basins shall be kept free of weeds and other undesirable vegetation. Plants and basins shall be inspected at least once per 45 days and appropriate maintenance performed, including reconstruction of tall pot plant basins as needed. DriWATER and Liquid Fence shall be applied at the time of planting and every **45** days during the 90-day maintenance/establishment period (3 applications), if installation has occurred during the preferred planting window (October 1 through February 28/29). If installation has occurred outside of the preferred planting window, DriWATER and Liquid Fence shall be applied at the time of planting and every **30** days during the 90-day maintenance/establishment period (4 applications). The Contractor shall reapply Liquid Fence after a major storm event (greater than 1 inch of precipitation within 24 hours).

Maintenance inspections shall occur at 45-day intervals. If landscape areas are improperly maintained, if plant replacement is required, or other corrective work becomes necessary, as determined by the Engineer, the Contractor shall continue to maintain the entire site until all items are corrected and accepted at no cost to the Owner. Plant replacement shall be required if more than ten (10) percent of any one plant species is lost or damaged.

All corrective work disturbance, repairs, or replacements completed during the 90-day maintenance/establishment period shall be subject to an additional 90-day maintenance/ establishment period from the time of acceptance of the corrective work.

Final Maintenance Inspection:

At the end of the 90-day maintenance/establishment period, a final inspection will be performed. If, after this inspection, the Engineer agrees that all planting areas are weed-free and the plant materials are in satisfactory growing condition, a written Notice of Acceptance will be given to the Contractor for tall pot plant installation.