

910 - STONE MASONRY TREE WELLS

SECTION 910

STONE MASONRY TREE WELLS

910.1 DESCRIPTION

Construct stone masonry for tree wells at the locations designated in the Contract Documents.

BID ITEM

Stone Masonry for Tree Wells

UNITS

Cubic Yard

910.2 MATERIALS

Provide materials that comply with the applicable requirements.

Concrete and Concrete Mortar	DIVISION 400
Stone for Stone Masonry Tree Wells	DIVISION 1100
Burlap.....	DIVISION 1400

Provide granular material for tree root protection, such as sand, sand-gravel, gravel, crushed stone or chat. Provide material that is uniformly graded from coarse to fine, with all material passing a 3 inch sieve, with a gradation factor of not less than 3.00, and with a plasticity index no greater than 3. The Engineer will accept the granular material based on compliance with the specified requirements and visual inspection at the project site.

910.3 CONSTRUCTION REQUIREMENTS

Stone Masonry for Tree Wells. Do not damage the trees while placing the embankment or constructing the tree wells.

Before placing the embankment around a tree, remove all vegetation; remove no more than 2 inches of soil. Do not damage the root system. Place a uniform layer of porous granular material (6 inches in depth unless shown otherwise in the Contract Documents) above the root spread of the tree (the same area as the branch spread). Place the embankment around the tree without disturbing the layer of porous material covering the root spread of the tree.

Construct the type of stone masonry tree well (either laid in mortar or dry-laid) as shown in the Contract Documents.

Shape the stones before placing in the tree well. Dressing or hammering on the stones is not allowed after they are placed in the tree well.

Select larger stones for the bottom or foundation course of the tree well. Construct the top of the stone masonry tree well to fit the embankment slope unless shown otherwise in the Contract Documents. Firmly place the capstone layer even (flush) with adjacent stones.

(1) Stone Masonry Laid in Mortar. Clean each stone and saturate it with water before setting the stone in mortar. Settle each stone into place in a full bed of mortar. Construct the retaining wall with full-mortared joints 1 to 1 ½ inches thick. Arrange the vertical joints to break a minimum of 6 inches with those in adjoining courses. Do not locate vertical joints above or below a header.

Construct the tree well with headers to tie the masonry together. Arrange the headers to occupy at least ¼ of the surface area on the face and back of the retaining wall. Distribute the headers evenly throughout the tree well.

Use a pointing tool to finish the exposed joints. If the exposed joints are not pointed before the mortar sets, rake the exposed joints to an approximate depth of 1 ½ inches. Thoroughly wet the raked area, pack the wetted area with fresh mortar and finish the joint with a pointing tool.

After the mortar is set, clean and remove all excess mortar from the joints and surface of the stones.

Cure the finished tree well with wet burlap for a minimum of 3 days.

During cold weather, the limitations and protection requirements of **SECTION 401** will apply to the concrete footing and concrete grout.

(2) Stone Masonry Laid Dry. Construct the dry-laid tree well with broken joints, placed to form a solid, self-supporting wall. After the stones are placed, key the stones together by filling the voids with spalls or small stones. The finished tree well shall have a uniform surface.

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910.4 MEASUREMENT AND PAYMENT

The Engineer will measure stone masonry tree wells by the cubic yard. The measurement will be to the dimensions shown in the Contract Documents, or as revised by the Engineer.

Payment for "Stone Masonry for Tree Wells" at the contract unit price is full compensation for the specified work.