

San Antonio Water System Standard Specifications for Construction

ITEM NO. 862

ABANDONMENT OF SANITARY SEWER MAIN AND MANHOLES

862.1 **DESCRIPTION:** This item shall govern the abandonment of sanitary sewer mains and manholes required on the plans to be abandoned. Generally, sanitary sewers over 12" in diameter and all abandoned sanitary sewer manholes are to be filled with a cementitious low strength material. The sanitary sewer facility shall be abandoned in accordance with the specifications herein outlined and in conformity with the limits shown on the plans.

Abandoning of sanitary sewer lines and manholes shall not occur until all existing sanitary sewer services have been transferred to another line and directed by the Engineer.

862.2 **MATERIALS:** Materials for abandonment of sanitary sewer pipe and manholes.

1. Sanitary Sewer Pipe: A cement based grout shall be used to fill the void of the existing sanitary sewer main. The grouting material must have a strength of at least 100 psi and shall have flow characteristics appropriate for filling a sanitary sewer. The grout mix designed and method of installation shall be approved by the Engineer prior to beginning operation.
2. Material for Abandoning Manholes: The sanitary sewer manhole shall be filled to the top of the remaining concrete structure with the same material used to abandon the sanitary sewer line.

862.3 **CONSTRUCTION:** Abandonment of sanitary sewer lines shall be accomplished by installing the grout material with sufficient pressure and in numerous locations. The method of installation shall be able to meet the requirement of completely filling the existing sanitary sewer line and any voids adjacent to the sanitary sewer line. The method shall adequately provide for the removal and legal disposal of existing sewer materials in the system. The method shall provide for the release of air. When intermediate points are required to be constructed for the abandonment of the system, they shall be a part of the abandonment project process.

Sanitary sewer pipes smaller than 15" in diameter, are generally not required to be grouted unless it is required by the plans. Pipes to be abandoned shall be grouted only if required by the plans and payment as per these specifications is provided.

San Antonio Water System Standard Specifications for Construction

The concrete structure of the manhole shall be removed to a depth of 2 feet under proposed subgrade or finished ground elevation. Manhole rings and covers shall be removed and delivered to a facility within the limits of San Antonio designated by the Engineer.

862.4 **MEASUREMENT:** Grouting of abandoned sewer lines shall be measured by linear foot. Grouting of abandoned manholes shall be measured on the basis of each one complete in place.

862.5 **PAYMENT:** Payment for abandoning sewer lines shall be made on the contract unit price per linear foot complete in place. Said price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work. Unless otherwise shown on the plans, abandonment/grouting of manholes will not be a separate pay item.