

*San Antonio Water System Standard Specifications for Construction*

**ITEM NO. 818**

**PVC (C-900, C-905 and C-909) PIPE INSTALLATION**

**818.1 DESCRIPTION:** This item shall consist of PVC (C-900, C-905 and C-909) pipe installation in accordance with these specifications and as directed by the Engineer. Deflection of PVC (C-900, C-905 and C-909) pipe shall not be allowed.

**818.2 MATERIALS:** The materials for PVC pipe installation shall conform to the specifications contained within the latest revision of SAWS Material Specification "Polyvinyl Chloride (PVC) Pipe", Item No. 05-12.

**818.3 CONSTRUCTION METHOD:** PVC (C-900, C-905 and C-909) pipe shall be installed as specified within "Water Main Installation", Item No. 812 of these specifications. PVC (C-900, C-905 and C-909) mains shall be laid to the depth and grades shown on the construction plans. The pipe shall be laid by inserting the spigot end into the bell flush with the insertion line or as recommended by the manufacturer. At no time shall the bell end be allowed to go past the "insertion line". A gap between the end of the spigot, and the adjoining pipe is necessary to allow for expansion and contraction.

Joint Restraints: For all mains consisting of PVC (C-900, C-905 and C-909) joint restraints as specified in the Material Specifications, "Pipe Joint Restraint Systems", Item No. 95-10, shall be installed in accordance with manufacturer's recommendations. Joint restraints shall be non-directional and installed to fully restrain the system.

PVC (C-900, C-905 and C-909) shall be field cut using a power saw with a steel blade or abrasive disc depending on the size of pipe. If a bevel is needed after field cutting, it should be in accordance with Uni-Bell recommendations.

Tracer Wire: Tracer wire shall be utilized for location purposes and taped directly to the pipe. Tracer wire shall be of solid core (14 gauge insulated), and shall be taped to the main in minimum of 10 inch increments. Wire shall also come up to the top of valve extensions and fire hydrant stems, as directed by the Inspector.

**818.4 MEASUREMENT:** PVC (C-900, C-905 and C-909) pipe installed will be measured as outlined in "Water Main Installation", Item No. 812 of these Specifications.

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**818.5**      **PAYMENT:** Payment for PVC (C-900, C-905 and C-909) water main installed will be made as outlined in "Water Main Installation", Item No. 812 of these Specifications.