

## **WATER AGENCIES' STANDARDS**

### **STANDARD SPECIFICATIONS**

#### **APPENDIX D WET-TAPPING GUIDELINES**

##### **PART 1 GENERAL**

###### **1.01 DESCRIPTION**

This section establishes guidelines for wet-tapping operations on existing water mains. These guidelines shall be used in conjunction with Section 15000 of the Water Agencies' Standards (WAS).

###### **1.02 RELATED WORK SPECIFIED ELSEWHERE**

WAS Standard Drawings.  
WAS Standard Specifications 15000, 15041, and 15044.

###### **1.03 PIPE TAPPING (WET TAPPING)**

All pipe tap (wet tap) connections to existing pipelines, whether for mainline extension or service laterals, shall be performed by the District. In some cases, the contractor may perform wet taps with prior approval of the District Engineer and in accordance with Section 15000 and these guidelines.

##### **PART 2 MATERIALS**

###### **2.01 TAPPING EQUIPMENT**

The Contractor shall provide materials as called for in Section 15000 and as described below.

- A. The tapping machine shall have the ability to positively flush all shavings and other residue created when installing tapped outlets of 100mm (4") or larger.
- B. The shell cutter bell on the tapping machine shall be tapped with a 50 mm (2") minimum outlet.
- C. A ball valve shall be installed on the outlet to regulate flow.
- D. A hose and filter shall be connected to the ball valve to retrieve shavings and residue generated during the tapping process.
- E. A multi-toothed shell cutter is required to minimize the size of shavings generated when tapping PVC pipe. The shell cutter pilot tool shall be designed to capture the coupon generated by performing the wet tap.

- F. The tapping machine shall be filled with water prior to commencing the tapping procedure.

## **PART 3 EXECUTION**

### **3.01 GENERAL**

The Contractor shall provide labor and equipment necessary to perform the wet tap as called for in Section 15000 and as described below.

- A. District personnel shall perform all wet taps unless otherwise indicated on the Approved Plans or otherwise directed by the District Engineer. Wet taps not performed by District personnel shall be continuously witnessed and approved by the District Engineer.

### **3.02 TAPPING PROCEDURES**

Wet-tapping operations shall be performed in accordance with Section 15000 and the following:

- A. The tapping machine shall be cleaned and disinfected prior to attachment to the tapping valve and saddle.
- B. Feed settings and motor speed of the tapping machine shall be constantly monitored to insure proper operation.

### **3.03 DEWATERING PROCEDURES**

Collection and disposal of water generated by performing the wet tap shall comply with all Regional Water Quality Control Board requirements.

END OF SECTION