

## 104 TAPS AND CONNECTIONS

### 104.1 GENERAL

- 104.1.1 All taps and/or connections to water mains, public and private, shall be made by the Water Utility or its authorized contractors. Taps will be made only after application is completed by the contractor or owner as outlined in Section 103 of these Rules and Regulations.
- 104.1.2 The Water Utility will assess charges to the contractor if the site is not ready for the tap to be made prior to the dispatching of the tapping crew (see Appendix A - Fee Schedule).
- 104.1.3 No new tap shall be installed where a water service or stub already exists unless prior approval has been obtained from the Water Utility.
- 104.1.4 A minimum of 48-hour advanced notification is requested for taps. Before a tap request is made, the appropriate documents must have been completed and filed in the Water Utility's office in accordance with Section 103 of these Rules and Regulations. **The Contractor shall ensure all necessary plumbing permits have been approved by the City of Urbandale prior to scheduling.**
- 104.1.5 All residential, domestic and fire demands shall be supplied by a single tap.
- 104.1.6 All Tapping sleeves and valves shall pass a pressure test as approved by the Water Utility staff prior to making the tap. **Tapping sleeves shall be pressure tested after installation but before cutting the main to ensure seal integrity at 150 PSI for fifteen (15) minutes.**

### 104.2 LOCATION OF TAP

- 104.2.1 Generally, taps will be made for 1" services at a 45-degree angle on the main within the projected lot lines of the property to be served. Taps 1-1/4" and larger will be made at a 90-degree angle.
- 104.2.2 Taps on the backside of the main will be made only after the proper side of the main has been exposed and the Water Utility personnel has verified that obstacles make it impossible to tap the house side of the main. Taps of this nature must be authorized by the Utility Distribution Supervisor.**
- 104.2.3 Tapping Saddles shall not be located:
- 1) Closer than 18" from another tap, joint or pipe fitting;
  - 2) On hydrant branches; or
  - 3) Within an intersection.

104.2.4 Tapping sleeve and valve (TS &V) or tee service connections shall not be located closer than 3' from another TS &V, pipe joint or fitting.

### **104.3 SIZE OF TAP**

104.3.1 Minimum size tap allowed is 1”.

104.3.2 1” thru 2" taps require a saddle and corporation.

104.3.3 Taps larger than 2" will be made by the installation of a tapping sleeve & valve at the main, or a similar manner, as prescribe by the Water Utility.

104.3.4 Taps of a size equal to the main may be allowed.

### **104.4 EXCAVATION FOR TAP**

104.4.1 The contractor shall make the excavation required for the tapping of the water main. For 1" through 2" taps the floor of the excavation shall be level leaving a clearance of at least 12" around the main (see Appendix B, figures B-2 and B-3). For taps larger than 2” (see Appendix B, figures B-4).

104.4.2 The excavation shall be shored in accordance with OSHA (Occupational Safety and Health Administration) and the Iowa Occupational Safety & Health Standards for the Construction Industry (IOSH) rules. Water Utility employees will not enter an excavation or trench that does not conform to OSHA and IOSH requirements. Contractors shall be solely responsible for compliance to OSHA and IOSH excavation and trench protection. **The Utility may require further safety measures prior to entering an excavation at their discretion.**

104.4.3 Tapping of a main with structures or obstructions overhead will be permitted only if IOSH standards are met.

### **104.5 REMOVAL OF TAP OR CONNECTION**

104.5.1 For Services having a corporation tap that are to be disconnected from the corporation stop, the corporation shall be capped and the stop box and rod shall be removed in accordance with these Rules and Regulations. This work shall be performed at the owner’s expense by a licensed plumbing contractor and inspected by a representative of the Water Utility.

104.5.2 When services are connected to the main by a tee or tapping sleeve and valve they are to be removed from the main and **capped**. This work to be at the owner's expense.

- 104.5.3 With proper application, a service connection may be left as a stubbed service for up to one year. **If the stub is not used within this timeframe it shall be capped at the owner's expense.**
- 104.5.4 When a service is left as a stub, it shall be plugged at the **shut-off** and inspected by the Water Utility.
- 104.5.5 A blind flange may be installed on the abandoned tee with prior approval from the Utility Distribution Supervisor.