

## PCWR PVC PRESSURE PIPE TAPPING STANDARDS

### GENERAL

1. WATER MAINS SHALL NOT BE TAPPED UNLESS IN THE PRESENCE OF PORTAGE COUNTY WATER RESOURCES INSPECTION STAFF.
2. AVOID TAPPING OF CURVED PVC WATER MAINS.
3. PRIOR TO TAPPING ANY PIPE, THE CONTRACTOR SHALL IDENTIFY THE LOCATION OF THE NEAREST LINE VALVES, SO IN THE EVENT OF AN EMERGENCY THE SECTION CAN BE ISOLATED.
4. WHERE THE EXCAVATION IS WITHIN THE ZONE OF INFLUENCE OF ROADWAYS (1/1 SLOPE) THE CONTRACTOR SHALL CONTACT THE AUTHORITY HAVING JURISDICTION OF THE ROADWAYS FOR PROPER BACKFILL PROCEDURES.
5. PIPE SHALL BE PVC C900 DR18 PIPE OVER 2" AND DR9 FOR 2" AND UNDER. NOTE: THE USE OF C905 AND C909 ARE NOT PERMITTED.
6. CONTRACTOR SHALL PROVIDE SUBMITTALS FOR TAPS 2" AND GREATER TO INCLUDE CATALOG DATA FOR SADDLES, SLEEVES, AND HOLE CUTTING DEVICE; OPERATING INSTRUCTIONS FOR WET-TAP MACHINES.

### TAPPING GENERAL

1. CORPORATION STOP ("CORP STOP"): CORP STOPS SHALL BE AWWA-TAPERED WITH THREAD COMPLYING WITH AWWA C800 IN SIZES 5/8", 3/4" AND 1". WHEN A TAP LARGER THAN 1 INCH IS REQUIRED, THE PIPE SHALL NOT BE DIRECT-TAPPED.
2. TAPS UP TO 2-INCH DIAMETER SHALL BE "SADDLE TAPPED". TAPS GREATER THAN 2-INCH DIAMETER SHOULD BE "SLEEVE TAPPED".
3. HANDHELD DRILL SHALL NOT BE USED TO TAP PVC PIPE. USE OF A TWIST DRILL, SPADE BIT, AUGER BIT, WOOD BIT, HOLE SAW, OR SIMILAR CUTTING DEVICE IS NOT RECOMMENDED AND MAY CAUSE THE PIPE TO CRACK. A SLOTTED CORE CUTTER WITH THREADS RECOMMENDED BY THE PIPE MANUFACTURER SHALL BE USED FOR DIRECT TAPPING PIPE.
4. TAPPING MACHINES SHOULD:
  - a. USE A SHELL-DESIGN CUTTING TOOL SUITABLE FOR PVC PIPE.
  - b. OPERATE USING A STANDARD RATCHET HANDLE ON THE BORING BAR TO ROTATE THE BORING BAR BY HAND.
  - c. BE CAPABLE OF MANUALLY ADVANCING THE BORING BAR INDEPENDENTLY FROM THE ROTATION (I.E., NO "AUTOMATIC" ADVANCE). TYPICALLY, THIS IS CONTROLLED BY A FEED NUT AND YOKE OR SIMILAR DEVICE.HAND-HELD DRILL: A HAND-HELD DRILL SHALL NOT BE USED TO TAP PVC PIPE.
5. LUBRICATION: BEFORE TAPPING, THE CUTTER SHALL BE LUBRICATED WITH A CUTTING GREASE RECOMMENDED BY THE CUTTER MANUFACTURER.
6. THREADS: VARIOUS CORPORATION STOP THREADS ARE AVAILABLE. FOR A LEAK-FREE CONNECTION, IT IS IMPORTANT THAT THE THREAD TYPE MATCH AND BE COMPATIBLE WITH THE PIPE, SADDLE, OR SLEEVE. THE CORPORATION STOP THREAD TYPE IS TYPICALLY AN ANSI/AWWA C800 TAPERED THREAD ALSO REFERRED TO AS A "CC" THREAD. IPS/NPT THREADED CORPORATIONS STOPS ARE ALSO AVAILABLE AND MAY BE USED.
7. PROBLEM CORRECTION: IF STRIATIONS, RAISED EDGES, OR MELTED PLASTIC ARE OBSERVED ON A COUPON, THE TAPPING PROCEDURE AND THE CONDITION OF THE TOOLS SHOULD BE RE-EXAMINED AND CORRECTED BEFORE ADDITIONAL TAPS ARE ATTEMPTED.



### PORTAGE COUNTY WATER RESOURCES

### PVC PRESSURE PIPE TAPPING STANDARDS

9-1-2023  
APPROVED DATE

WS-10A