



**Morris County Municipal Utilities Authority**  
**“Wet Tap” Connection Standard**  
*(May 14, 2013)*

**General:**

All “wet tap” connection made on a Morris County Municipal Utilities Authority (MCMUA) water main shall be authorized through an approved Application for Connection to MCMUA Water System issued by the MCMUA to a customer municipality or utility. The permit holder shall be responsible for the integrity of the connection in perpetuity and for any damage to MCMUA facilities during installation. The permit holder or its agent shall be responsible for securing any other permits required to perform the work, and for all labor, material and equipment necessary to install the connection.

MCMUA customer municipalities and utilities may make lateral, fire and service connections to MCMUA water mains when their mains are unavailable or inconvenient to access upon receipt of authorization form the MCMUA. No taps of any kind may be made on Pre-stressed Concrete Cylinder Pipe in the MCMUA system; only connections to existing laterals, service outlets or bosses fabricated with the pipe will be allowed.

Service wet tap connections 2” and smaller may be tapped directly into the ductile iron pipe or installed on a service saddle. Wet tap connections 4” and larger shall be installed using a mechanical joint tapping sleeve and tapping valve set produced by one manufacturer. Wet tap connections 4” and larger shall be installed with permanent concrete reaction (thrust) and support blocking.

At a minimum, and if not superseded by the terms and conditions of other jurisdictions, the connection shall be backfilled to 1 ft above the top of pipe with compacted Dense Graded Aggregate to form a pipe envelope prior to completing backfill with excavated material.

**Materials:**

- Corporation Stops: Corporations stops shall be the standard of the customer municipality or utility, but at a minimum shall be made of ASTM B62 brass with taper threads (AWWA “Mueller CC, or NPS) on the tapping end.
- Service Saddles: Service Saddles shall be Smith Blair models 311 or 313, or equal, threaded to match the corporation stop.
- Tapping Sleeves: Tapping Sleeves, on pipe up to 24” and for taps 4” to 24”, shall be Mueller Mechanical Joint Tapping Sleeve models H-615 or H-616, or equal
- Tapping Valves: Tapping Valves, 4” to 12”, shall be Mueller non-rising stem, resilient wedge, MJ x Flange, Tapping Valves model T-2360, or equal.

- Tapping Valves: Tapping Valves, 14" to 24", shall be Mueller non-rising stem, double disc, MJ x Flange, Tapping Valves model H-667, or equal.
- Valve Boxes: Valve Boxes shall be adjustable two-piece 5 ¼" diameter Tyler Pipe & Foundry Series 6855, or equal.
- Reaction and Support Blocks: Permanent reaction and support blocks shall be concrete with a 7 day compressive strength of at least 2,500 psi. Support blocks may be cast in place concrete or solid concrete masonry units, reaction blocks shall be cast in place concrete.
- Backfill: Backfill for pipe envelope shall be Dense Graded Aggregate (DGA) as per NJDOT.
- Foundation: Foundation shall be ¾" clean gravel or crushed stone.

**Performance Requirements:**

- Clean dirt, rust and scale from surface of pipe to be tapped.
- Clean and lubricate tapping sleeve gasket seats and gaskets.
- Tighten bolts to recommended torque,
- Install temporarily blocking to prevent sleeve rotation when valve is mounted.
- Air test tapping sleeve and valve assembly for leaks, correct any defects before proceeding with wet tap.
- Make wet tap with experienced personnel and equipment in good working condition.
- Install permanent reaction and support blocking and compacted foundation material under pipe, sleeve and valve.
- Place and compact DGA backfill to at least 1 ft above the pipe.
- Install the valve box plumb and centered over valve operating nut.