CITY OF KALISPELL

January 2021

Meter Pit Procedures & Installation Requirements

In conformance with the City of Kalispell's Standards for Design and Construction all new construction, existing development, and reconstruction require the installation of a water meter pit or vault.

1. **Water Service:**
   - Location: Water service shall extend perpendicularly from the connection at the water main to the property line. Water services shall connect to the main on the front door side of the structure if multiple mains are available. An In-House Deviation process may be approved in cases where the water service alignment does not match the front door side of the structure (corner lots only where meter pit is in blvd). Contact Public Works for complete details.
   - Installation: Use Insta-tight or Mueller 110 fittings for service line connections.

2. **Curb Stop Location:** Curb stop to be installed between City main and meter pit. Curb stop is required to be installed per City Standards within the City right-of-way (ROW) and in the boulevard.

3. **Meter Pit Type:**
   - ¾" and 1" Meter Pits must be a Mueller Thermo-coil meter pit (Part No. ###CS##72FS#SN) or Ford Coil Pitsetter (Part No. PFCBHH-###-##-72-FP-NL) with dual check valve backflow preventer, insulating pad, and center locking composite lid.
   - 1.5" or 2" Meter Vaults shall be Mueller EZ Vault (Part No. ###VS##72FB#N). Meters shall be within 18" of the final grading surface elevation.
   - Downsizing of water service lines must occur prior to the meter pit or vault and must be approved via a deviation request prepared by an engineer and submitted for Public Works Engineering review.

4. **Meter Pit (MP) Locations, Installation, and Inspections:**
   - All Meter Pits Shall
     - Be located within the City right-of-way or utility easement.
       - Current City Standards requires MPs be located within the boulevard.
     - Be perpendicular to curb stop.
     - Be centered in the boulevard (right-of-way).
     - Be accessible for service (no landscaping covering lid, etc.).
     - Be backfilled and compacted around the meter pit to avoid ovaling the pit.
     - Follow manufacture installation instructions.
     - Be leak tested – Meter Tech will perform.
     - Ensure meter pit inside valve is closed.
     - Include a traffic rated lid and frame is used when located in a driveway.

- All Meter Pits Shall (cont.)

    - Be inspected by the City prior to backfill (See criteria below for further instruction on meter pit inspection).

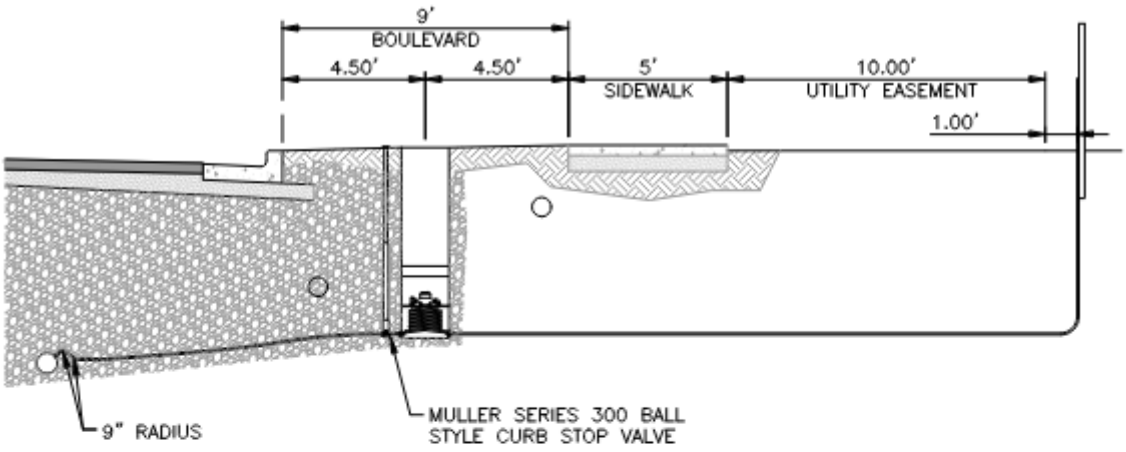
- Lot developed prior to April 6, 2015 (before 2015 Standards Update) -See plat map for development date:
    - **Meter pits shall be inspected by the City prior to backfill.**
    - Call 758-7720 for inspection (24-hour notice required, M-F).
    - Every effort shall be made to place the meter pit within the boulevard (right-of-way) but will be reviewed on a case by case basis and may be allowed within a utility easement. New utility easement development must be approved via a deviation request with Public Works. New utility easements must be surveyed and recorded and are the responsibility of the lot owner.

- Lot developed after April 6, 2015 (2015 Standards Update) – See plat map for development date:

    - Lots developed as part of a subdivision – Meter pits installed during subdivision development will be inspected as part of the development construction by the City Construction Manager.
    - All other lot development requires **a meter pit inspection by the City prior** to backfill. Call 758-7720 for inspection (24-hour notice required, M-F).

5. **Meter Installation:**
    - A City of Kalispell employee will install the water meter after the pit has been inspected, and with verification that an account for water service has been completed.
    - Additional plumbing connections or branches between the City's meter pit and water main for residential development are not allowed.
    - Commercial development may opt to install a second meter pit for irrigation usage (tee off service line must be upstream of domestic meter pit).
    - If installing an underground irrigation system on the service, at a minimum, a PVB backflow assembly must be installed on the service line to the irrigation system in accordance with the Uniform Plumbing Code.
    - A flexible sleeve is advised for any water service going through a cement slab or wall.

Please note the City works hard to inform and uphold the requirements of the Standards, however approval does not relieve you, nor the contractor from constructing projects in accordance with City Standards currently in effect.



NOTES:

1. ¾" – 2" SERVICES SHALL BE INSTALLED WITH BR2 SERIES SERVICE SADDLES AND PE SERVICE LINE.
2. 4" AND LARGER SERVICES SHALL BE INSTALLED WITH A ROMAC SSTIII STAINLESS STEEL TAPPING SLEEVE AND CLASS 150 PVC SERVICE LINE.
3. MUELLER H-10306 (¾" or 1" SERVICE) OR MUELLER H-10310 (1 ¼", 1 ½", OR 2" SERVICES) CAST IRON EXTENSION TYPE WITH ARCH PATTERN BASE, MINIMUM LENGTH 6 ½', EQUIPPED WITH A PROPERLY SIZED STATIONARY ROD AND A PENTAGON BRASS PLUG OR APPROVED EQUAL.
4. MULLER THERMO-COIL METER PITS WITH CENTER LOCKING COMPOSITE LIDS AND INSULATION PADS FOR SERVICES UP TO 1". MULLER EZ VAULT OR APPROVED EQUAL WITH CENTER LOCKING COMPOSITE LIDS AND INSULATION PADS FOR SERVICES LARGER THAN 1"

WATER SERVICE DETAIL 3 / C7.1

NOT TO SCALE (COK W.11)