**1-1/2" METER INSTALLATION**

1. **Obstructions:** Meters shall be placed 3-ft min. from any obstruction (signs, fences, mailbox, etc.). Meters shall be installed 10-ft min. from trees (5-ft min. from shrubs). See W-18 for additional details.

2. **Water-Sewer Separation:** Water-sewer (or water-recycled water) separation shall comply with all California department of health services requirements. Water services shall be 10-ft min. (parallel) and 1-ft min. above (perpendicular) all sewer (or recycled water) utilities.

3. **Hot-Tap:** Hot-taps to active water mains shall be made by city forces at applicant's expense. See W-16 for hot-tap requirements. Hot-tap shall be installed 24" min. from any tap, basin, fitting, water service, etc.

4. **Meter Installation:** Meter, strainer, isolation gasket (for meter only), bolt sleeves, reducer fittings, and washers are provided by City of Napa after payment of meter set fee and installed by contractor.

5. **Metallic Pipe and Fittings:** Buried sections shall be wrapped with an 8-mil plastic sleeve. Copper pipe not wrapped in a plastic sleeve shall be NSF 61 approved plastic coated copper tubing (Type “K” soft blue in color). Insulated coupling shall be wrapped with 10-mil high tack pipe wrap tape 3-ft min. to each side of the insulation point.

6. **Meter Box and Service Line Installation:** Install 3-ft min. outside any vehicular access way.

7. **Curb Adjacent Sidewalk:** Install the meter at back of curb as shown. Install backflow device behind sidewalk.

8. **Backflow Prevention Devices:** Approved devices shall be installed and tested prior to the installation of meters. Use of jumpers, hose bibs, etc. is prohibited.

9. **Two or More Services:** Installation of two or more services require connection of permanent address tags for each meter which shall be durably fixed to the meter prior to water service activation.

10. **Water Service Size:** All water services shall be appropriately sized for the intended use. The water division reserves the right to require a water service analysis to evaluate demands and the appropriateness of the service size(s). Undersized water services are prohibited.

**Approved Fittings**

- **Description**
  - Insulated Corp. Stop (MIP x COMP)
  - 2" Brass SQ. Wrench Nut Adapter
  - Coupling (COMP x COMP)
  - 90° Bend (COMP x COMP)
  - Angle Stop (COMP x Meter Flange)

- **Manufacturer**
  - Mueller

**Alternates Materials Must Be Approved by The City of Napa Water Division Prior to Use**

**Flanged Gaskets by U.S. Pipe shall be Used for All Flanged Fittings. Insulating Gaskets shall be Type E 1/8" Thick Full-Faced Neoprene Phenolic Gaskets installed with Grade G-10 Fiberglass Epoxy Insulating Bolt Sleeves and Washers.**

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**City of Napa**

**Public Works Department**

**Title:** 1/2" Water Service

**Drawn By:** DCF  **Checked By:** MJH

**Date:** 09/2019  **Approved By:** MJH

**Scale:** NTS  **Drawing No.:** W-2A

**Field Notes:**

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