**REQUIRED FOR ALL METALLIC PIPE INSTALLATIONS**

- **All joints shall be restrained.** Fittings: Megalug restraints, or equal. Pipe bells: Field Lok gaskets, or equal.

- **3/4" Clean crushed gravel:**
  - 6" (min) on all sides
  - 6" (min) on bottom
  - Inside meter box to 4" below water meter

- **12" of topsoil**

- **18" (min)**

- **3' (min)**

- **Two 10" round reading lids**

- **32-LB (min) prepackaged high potential magnesium anode.** (See W-24A for installation details)

- **14"**

- **3' (min)**

- **Knock out sections for pipe, mortar all openings**

- **Three Christy B48X10 extensions stacked with all joints mortared**

- **Flange tyte 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.**

- **Christy G5 valve box w/ 8" PVC riser pipe (typ)**

- **45° MJ bends as required for vertical offset**

- **Gate valve (FLG)**

- **GATE VALVE (FLG)**

- **Mortar all pipe openings**

- **Tapping saddle or tee w/ flanged branch outlet**

- **MJ flange adapter with Megalug restraints**

- **Flanged coupling adapter (Smith Blair 912, or equal)**

- **Flg x PE spool**

- **Flg spool**

- **Gate valve (FLG)**

- **Detail - Meter box installation**

- **Christy B48 box (or approved equal) with B48X10 extensions**

- **Profile**

- **Plan**

- **All joints shall be restrained.** Fittings: Megalug restraints, or equal. Pipe bells: Field Lok gaskets, or equal.

- **Christy B48 box (or approved equal) with B48-62G galvanized steel checker plate lid with two 10" round reading lids**

- **Steel Checker Plate lid with two 10" round reading lids**

- **Sidewalk**

- **Christy B48 box (or approved equal) with B48-62G galvanized steel checker plate lid with two 10" round reading lids**

- **Gate valve (FLG)**

- **Flg x PE spool**

- **Flg spool**

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- **Mortar all pipe openings**

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- **Christy B48 box (or approved equal) with B48X10 extensions stacked with all joints mortared**

- **Alternate materials must be approved by the City of Napa Water Division prior to use**

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