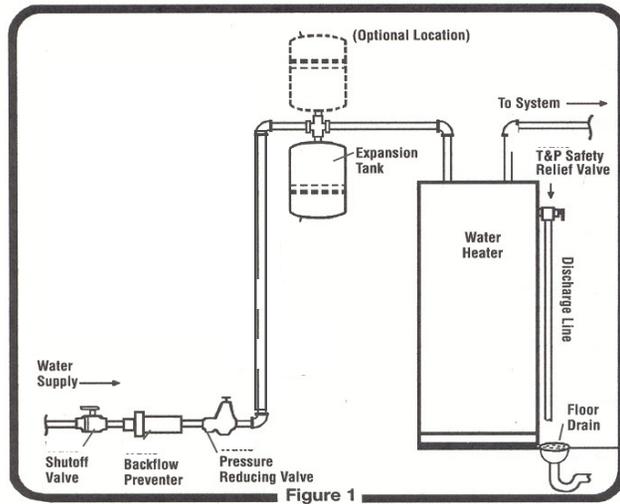


THERMAL EXPANSION

As stated previously, your water service is installed with a check valve located near the main water meter. The purpose of the check valve is to prevent water from “flowing back” in the Clay RW system.

One of the drawbacks of a check valve is that it can contribute to pressure build up in the



user's home. Clay RWS water delivered to the user comes into the home at a cool temperature. When cooler water is drawn into the water heater and heated, it expands. With a check valve there is no place for the expanded water to escape to, and pressure can build up in the water heater and hot water pipes. This may also cause the relief valve on the water heater to open. The best remedy is to install a small “expansion tank” near the water heater. They are available from a plumber or building supply store. The diagram above demonstrates a typical installation.

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30376 SD Hwy 19
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CRWS
Clay Rural Water System

Clay RWS & Your Plumbing Connections



Clay Rural Water System Inc
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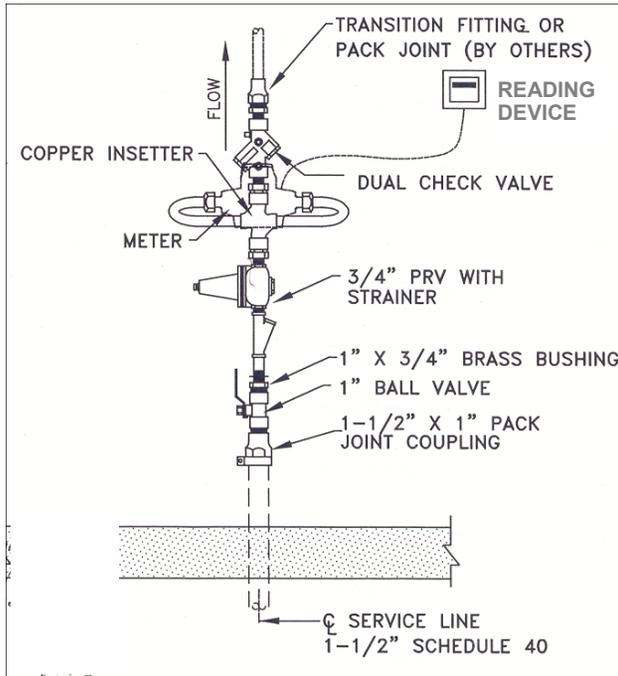
INTRODUCTION

This brochure contains information on connecting your existing water system to Clay RWS. There are water system policies as well as State Plumbing Codes that need to be followed when completing your connection.

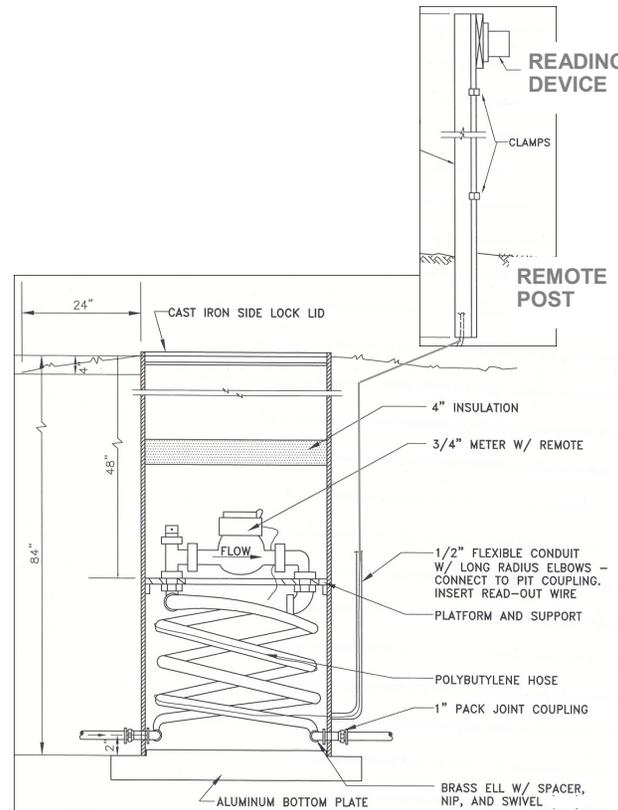
TYPE OF SERVICE

There are two types of water services: a basement meter location or a meter pit. The following illustrations show each:

Basement Meter Location



Meter Pit Location



A basement service is constructed through the wall or floor of your basement. The main shut off valve (ball valve), pressure regulator and strainer, water meter and check valve are secured to the wall. When a pit service is installed these items are located inside the meter pit on a flexible platform that can be raised to the surface for inspection or maintenance. The reading device is located on a wooden post next to the meter pit.

Both services have a check valve installed on the outlet side to prevent backflow.

CONNECTING YOUR PLUMBING

If you are building a new home and rural water is your only source of water, you can connect your main water supply line directly to the check valve on a basement service or to the pipe stubbed out of the meter pit (this pipe is generally stubbed out ten feet and capped).

If you have another source of water such as a well, you must keep the two sources physically separated when making the connection in order to prevent cross-contamination or backflow. State law, due to health concerns, prohibits backflows.

The diagram below shows an example "swing" connection that can be used in the event you want the ability to use your auxiliary source for backup purposes. Use of a valve only between the two sources is not adequate. The piping must be physically separated.

If you want to use rural water in your house and your auxiliary source for outside watering, you can pipe the two systems separately.

Always use an approved, properly rated plumbing material for your connection.

