



## **NEW---Homeowner's Guide for Plumbing and Gas Piping Installations**

**As a homeowner you are entitled to install plumbing in your own home but you MUST have at least a rudimentary understanding of the plumbing code for design and sizing criteria to accomplish this.**

**There are many different ways to properly install plumbing. Below are some examples. Remember-every fixture requires a trap-every trap must be vented in an approved manor. Vent location, vent and drain sizing are found in the International Residential Code.**

### **Drain and Vent Guide (see also isometric diagrams on the following page)**

Sanitary Tees are only allowed in a vertical position, not horizontal.

Sanitary Tees must be used to connect a trap to a vertical drain pipe, Wyes or Combination Wye/eighth bend fittings may not be used for this application.

PVC (white) and ABS (black) pipe and fittings in any combination may not be glued together.

A listed-approved "transition" glue for use inside a structure does not exist.

Pipes passing thru concrete must be isolated and protected from the concrete.

**ALL** plumbing products and materials **MUST** be third party certified (listed) to standards referenced in the Plumbing Code.

(Plumbing materials purchased online must meet these criteria)

### **Water Pipe Guide**

All water piping materials must be listed to NSF 61

Water Hammer Arrestors are required at electronic solenoid (fast closing) valves that include: dishwashers, clothes washers, icemakers, etc.

Storage type water heaters must be placed in an approved drain pan where installed on a wooden floor.

The drain from the pan must terminate in an approved location (outside the structure or at a floor drain).

Replacing an existing water heater requires a permit and inspection.

A yard irrigation system and/or a drain down yard hydrant must be on the downstream side of an approved backflow prevention device.

### **Gas Piping Guide**

Any installation, change of location or addition to a gas piping system requires a permit and inspection (complete with pressure test) for compliance to the code.

A shutoff valve for each gas burning appliance is required with in 6' of the appliance and in the same room as the appliance.

All gas burning appliances must be provided with adequate combustion air and be properly vented to code specifications.

# Somewhat typical residential drain waste and vent installations

