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Allen County Combined Health District

## **TO HOMEOWNERS INSTALLING THEIR OWN PLUMBING**

**BEFORE INSTALLING ANY PLUMBING WORK**, you must submit an isometric drawing of your sanitary waste and vent piping at the time you submit an application for a plumbing permit. YOU must follow the same rules and regulations as required for a CERTIFIED PLUMBING CONTRACTOR. Please read Sections 5.00 and 6.00 of the Combined Allen County General Health District's **Plumbing Regulations** in their entirety. A copy will be provided upon inquiry.

You may use either PVC-DWV (A.S.T.M. #D2564 & #D222665) or ABS-DMV (A.S.T.M. #D2235 & #D2661) schedule 40 plastic drainage, vent pipe & fittings but **not both** in the same system as they are not compatible. Plastic waste piping must be supported every four (4) feet horizontally. Sanitary tees and low-hell quarter bends are not permitted in the **horizontal** waste line. Sanitary tees and low-heel quarter bends may be used in the **vertical** waste line. Use only Wye's and 45 degree ells in the **horizontal** waste lines. Vents through the roof must be three (3) inches, one foot below the roof and extending one foot above the roof. **USE ONLY P-TRAPS AT EVERY FIXTURE.** S-straps are not acceptable. **ALL FIXTURES, TRAPS & DEVICES** must have a P-TRAP and vent. **IF YOU ARE IN DOUBT AS TO WHETHER YOU HAVE A PROPER INSTALLATION DO NOT GLUE YOUR PIPE AND FITTINGS TOGETHER UNTIL A PLUMBING INSPECTOR HAS INSPECTED IT.**

All faucets for shower compartments, or bath & shower combinations, must be anti-scaled or pressure balanced. ¾ inch pipe size hot & cold water lines must be extended to the first bathroom. The ½ inch branch water lines must be extended to other fixtures and devices.

If you use plastic water lines, the State of Ohio requires you to use 'CPVC' plastic pipe and fittings that meet A.A.S.T.M. standards: 1785 for pipe, D2846 for fittings. Horizontal plastic water lines must be supported every three (3) feet however, it is recommended that the lines also be supported at every joist where possible. The State of Ohio requires 24 inches of copper or galvanized pipe off the hot water, (electric & gas), before running the plastic hot water piping. In Allen County when on three (3) family dwellings or less, we allow you to use 18 inches of metal pipe off the hot water heater before changing to plastic. **Water heaters MUST be installed in an approved pan where structural damage may occur if the water heater should leak.** The T & P must be directed and piped to an approved discharge point.

### **YOU MUST CALL FOR INSPECTIONS**

**ROUGH INSPECTION:** The sanitary waste vent piping must be inspected before the lines are covered up with concrete or drywall. **It is recommended at this time that you, either fill the waste and vent system with water, providing at least ten (10) feet of head water, or put five (5) pounds of air pressure (when permitted by manufacturer) on the system for 15 minutes without losing the water level or air pressure on the gauge, or a four (4) inch vacuum test may be performed.**



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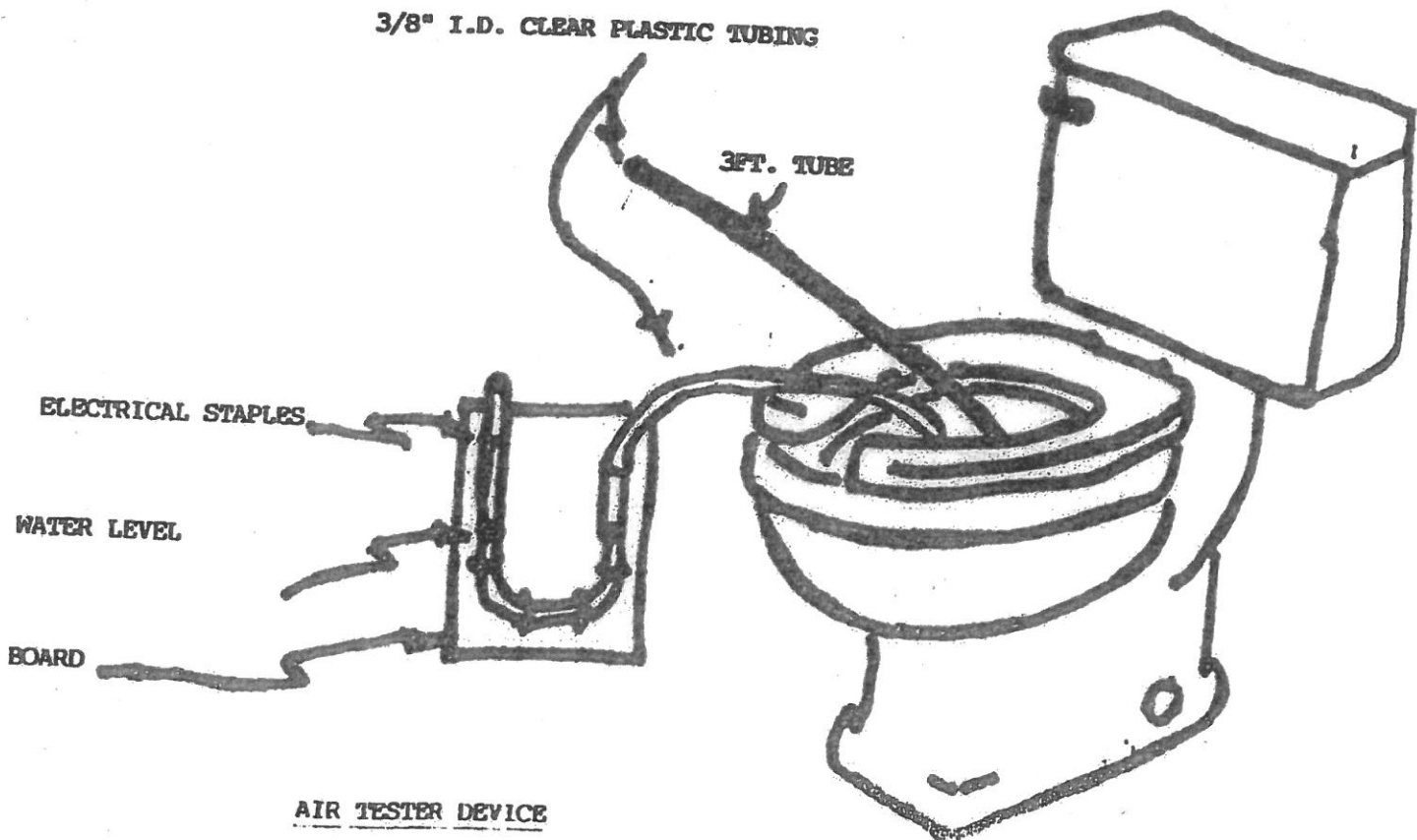
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**FINAL AIR TEST: This test is required before living in the house.**

This test is prepared by plugging off all vents and draining lines at the building wall and roof. **ALL PLUMBING FIXTURES MUST BE SET WITH WATER IN EVERY TRAP.**

Air tester device may be made of 3/8" or 1/4" inside diameter, clear plastic tubing. Shape the tubing into a 'U' bend and attach it to a board with electrical staples, (see drawing below).



You will need about five (5) feet of tubing to make this part of the tester along with another piece measuring three (3) feet long. One end of the tubing mounted on the board is pushed down through the toilet bowl water seal into the air space of the fixture. Blow on the opposite end of this tubing to clear the water from the tubing, (when you stop blowing on it, you should feel air blowing back through the tubing). Now pour a small amount of water in the 'U' bend to make water seal level in each leg of the 'U' bend. Insert the three (3) foot piece of tubing into the air space of the toilet bowl, blowing into it until you hear a trap gurgle. Place your thumb on the end of the tubing you into. This will keep the air from escaping. Now carefully pull the tubing out of the toilet bowl. You should have raised the column of water in the tester at least one (1) inch higher than the other column. The one (1) inch or greater water column should hold without dropping for fifteen (15) minutes. Disconnect a sink or lavatory P-TRAP to allow the air out. This should allow the water column to drop to original level. If the water column does not drop, you do not have the tester tubing inserted far enough into the water closet air chamber. **YOU MUST BE SURE THE FINAL AIR TEST HOLDS FOR FIFTEEN (15) MINUTES WITHOUT DROPPING BEFORE CALLING THE INSPECTOR TO WITNESS YOUR TEST.** If you do not have a good FINAL AIR TEST ready for the inspector to witness after you call for an inspection, The Allen County Plumbing Regulations, Section 5.5, requires and additional \$50.00 for every re-inspection.

**The water softener backwash discharge line shall NOT discharge into the sanitary waste system on a private sewage disposal system.** It shall discharge into a storm drain, a footer drain, or preferably, into a curtain drain of the leaching tile field.

The Plumbing Inspector is in the office and available to receive calls during the following hours: 8:00-9:00 am, 1:00- 2:00pm & 4:00- 4:30pm, Monday through Friday.

**PLAN REVIEW FEE:** Based on the fixture count of the project. **0-20 Fixtures = \$30.00**  
**21-40 Fixtures = \$100.00**  
**41+ Fixtures = \$200.00**

**PLUMBING PERMIT FEE:** \$25.00 plus an additional \$16.00 per fixture, trap, device and appliance.

