



DEPARTMENT OF PUBLIC HEALTH

219 East Market Street P.O. Box 1503 Lima, Ohio 45802-1503
Phone (419) 228-4457 Fax (419) 224-4161
www.allencountyhealthdepartment.org
Info Line (419)228 - INFO (4636)



Public Health
Prevent. Promote. Protect.

TO HOME OWNERS 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 make 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 (ask for a copy).

You may use either PVC-DWV (A.S.T.M. #D2564 and D222665) or ABS-DMV (A.S.T.M. #D2235 and D2661) schedule 40 plastic drainage and vent pipe and 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-heel 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 (3"), one foot below the roof and extend one foot above the roof. USE ONLY P-TRAPS at every fixture. "S" straps are not acceptable. ALL FIXTURES, TRAPS, AND 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 and shower combinations must be anti-scaled or pressure balanced. ¾ inch pipe size hot and cold water lines must be extended to the first bathroom, and the ½ inch branch water lines 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 meeting A.A.S.T.M. standards "1785 for pipe and D2846 fittings. Horizontal plastic water lines must be supported every three feet (3") but in Allen County it is recommended that the lines be supported at every joist where possible. The State of Ohio requires 24 inches of cooper or galvanized pipe off the HOT WATER (electric and gas) before running the plastic hot water piping. In Allen County on three family dwellings and 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. And the T & P must be directed and piped to an approved discharge point.

YOU MUST CALL FOR INSPECTIONS:

ROUGH INSPECTIONS: The sanitary waste vent piping must be inspected before the lines are covered up with concrete or drywall. **IT IS RECOMMENDED AT THIS TIME, YOU EITHER FILL THE WASTE AND VENT SYSTEM WITH WATER (provide at least ten foot (10") head of water) OR PUT FIVE POUNDS OF AIR PRESSURE ON THE SYSTEM FOR FIFTEEN MINUTES WITHOUT LOSING THE WATER LEVEL OR AIR PRESSURE ON THE PRESSURE GAGE.**

FINAL AIR TEST: THIS TEST IS REQUIRED BEFORE LIVING IN THE HOUSE.

YOU prepare this test by plugging off all vents and drain lines at the building wall and roof . **ALL PLUMBING FXTURES 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 feet (5') of tubing to make this part of the Tester and you will need another piece three feet (3') 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 little water into the "U" bend to make water seal level in each leg of the "U" bend. Now insert the three foot (3') piece of tubing into the air space of the toilet bowl and blow into it until you hear a trap gurgle; then place your thumb on the end of the tubing you blew into, to keep the air from escaping and carefully pull the tubing out of the toilet bowl. You should have raised the column of water in the Tester at least one inch (1') higher than the other column. The one inch or greater water column should hold without dropping for fifteen minutes. Disconnect a sink or lavatory p-trap to allow the air out and the water column should drop to its 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 MINUTES WITHOUT DROPPING, BEFORE YOU CALL FOR 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 you to pay an 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 THE CURTAIN DRAIN OF THE LEACHING TILE FIELD.**

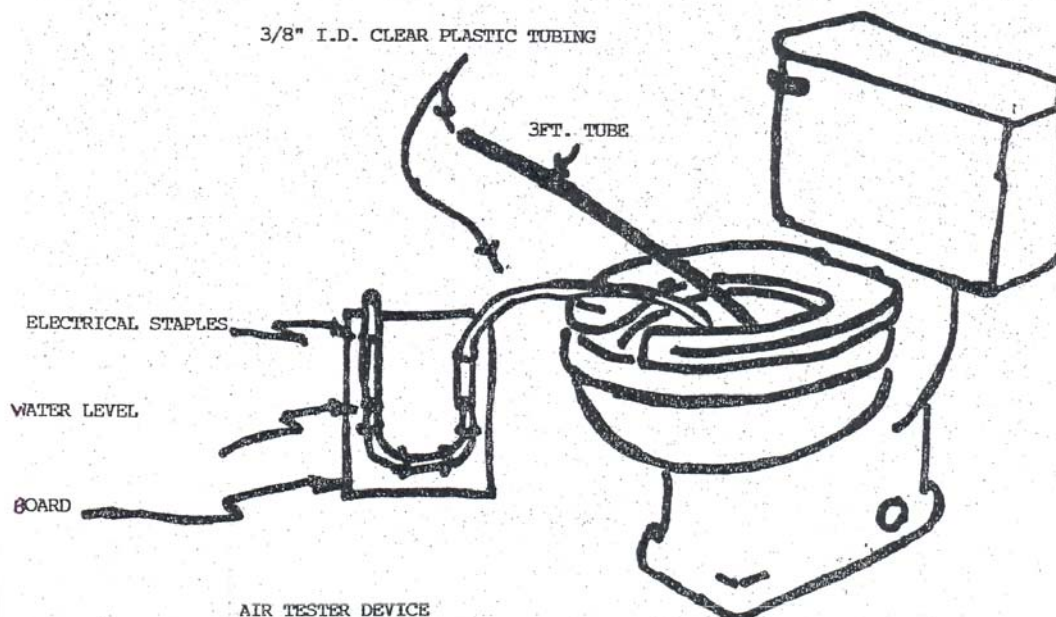
The Plumbing Inspectors are in the office to receive calls during the following hours: 8:00-9:00 a.m., 1:00-2:00 p.m., and 4:00-4:30 p.m., Monday through Friday.

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

PLUMBING PERMIT FEE: \$25.00 plus \$13.00 per fixture, Trap, Device and Appliance.

SEWAGE SYSTEM INSTALLATION PERMIT FEE: \$150.00

WELL PERMIT FEE: \$300.00



THE COMBINED ALLEN COUNTY GENERAL HEALTH DISTRICT
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TO HOME OWNERS TESTING SANITARY SEWER

Before calling for an underground or second rough-in inspection, you have to apply air to the sewer system. 5 PSI is needed at the time of inspection, and hold for a period of time of 15 minutes. The following steps to do this test are:

1. Plug all openings in your sewer system; using mechanical test plugs, fernco caps, glue knockout test plugs or caps, inflatable test plugs. These can be purchased at most Lowes, Home Depots and Menards.
2. Make sure your roof vents are capped off, and if you have a lift station, all openings are capped off.
3. Now you need to force air to the system. First you have to make a testing gauge with a schrader valve, so you can tell that you have 5 PSI of air in the system. You will need a gauge that reads 0-15 and is easy to read. The easy way to put air in system is by using an air compressor. A drawing will show how to make a test gauge.
4. If system won't hold air, it could be leaking in joints, cracked pipes, test plugs, opening not capped off or test gauge is leaking. Use a spray bottle with soapy water and it will bubble around opening. In this case you will need to make repairs and then start over. System should hold 5 PSI at least 15 minutes.
5. You may now call the plumbing inspector for an inspection.
6. Do not air pressure pass 5 PSI, as it could damage plumbing or cause bodily harm. Use safety precaution when doing this test.

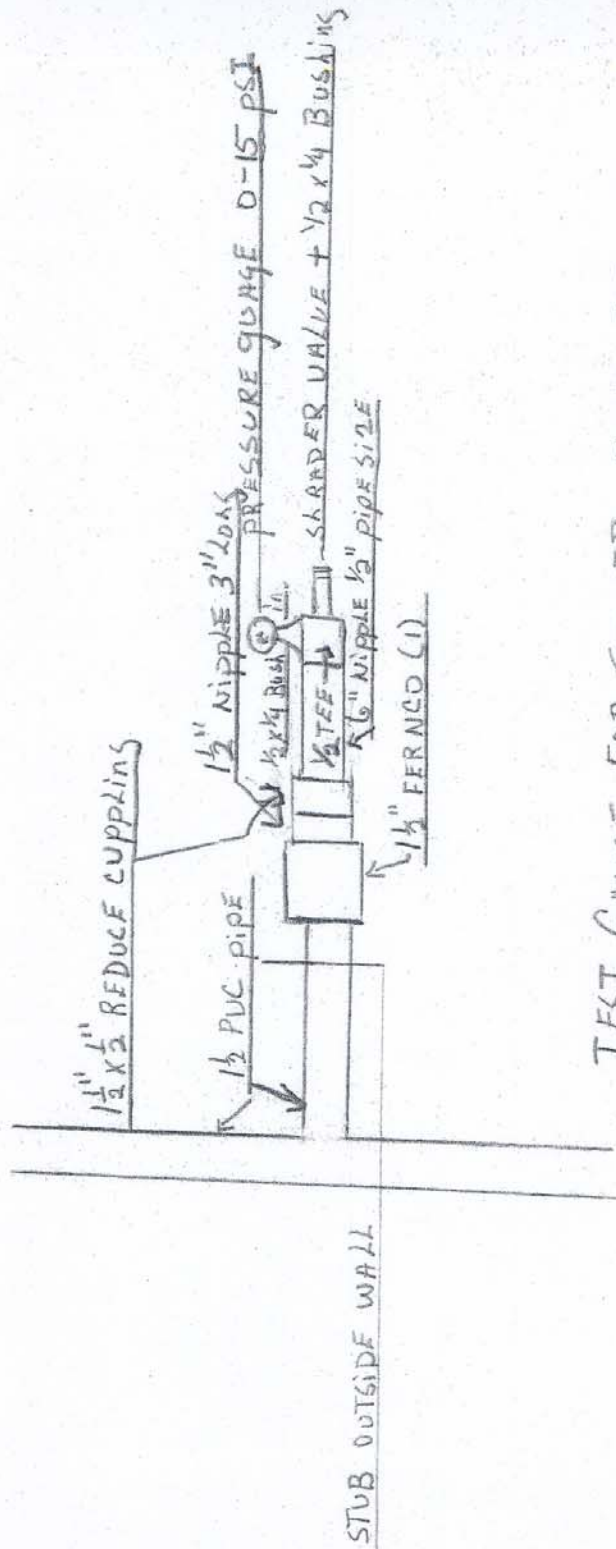
The code for this requirement is under Section 3.12 "Test and Inspection" 312.1 to 312.4, safety precaution when doing this test.

Drainage and vent water test on underground only.

A water test shall be applied to the drainage system either in its entirety or in sections. If applied to the entire system, all openings in the piping shall be tightly closed, except the highest opening, and the system shall be filled with water to the point of overflow. If the system is tested in sections, each opening shall be tightly plugged except the highest opening of the section under test, and section shall be filled with water, but no section shall be tested with less than a 10-foot head of water. The water shall be kept in the system, or in the portion under test, for at least 15 minutes before inspection starts.

If a re-inspection is necessary due to faulty or improper plumbing under Section 2.07, such person shall be charged a \$50.00 re-inspection fee as adopted by the Board of Health.

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TEST GAUGE FOR SEWER 5 PSI FOR 15 MINUTES

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TO HOME OWNERS TESTING WATER LINES

A pressure test must be done on all water lines before walls are covered. Copper piping 70 to 80 PSI and hold until inspection by the inspector is done. This code is under Chapter 3, Section 311 and 312.5 "Water Supply System Test".

The following steps for testing:

1. Plug all openings on waterlines using caps. Next shut off all valves.
2. Put a galvanized or black iron nipple 4 or 5 inches long with a cap on shower or tub and shower, where your shower arm comes out of the wall. Next your tub spout needs to be capped off. Shower and tub valves should be installed.
3. If test does not hold, check all solder or glue joints with soapy and water, using a spray bottle. Sometimes and pipe could be cracked or valve around the packing nut is leaking. After all leaks are found, air pressure will hold.

Testing CPVC piping for waterlines needs to follow manufacturer's recommendations.

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