



# Chesterfield County , Virginia

## Department of Building Inspection

9800 Government Center Pkwy - P.O. Box 40 - Chesterfield, VA 23832-0040  
Phone: (804) 748-1057 - Fax: (804) 717-6080- Internet: chesterfield.gov

**Ron Clements**  
**Building Official**

### Plumbing and Gas Checklist

The following checklist contains the minimum information and details required on plumbing and fuel gas plans prior to submission for plan review. This is a basic pre-submittal checklist that is intended to expedite the plan review process by minimizing the number of required revisions. Please contact the commercial plan review staff at (804) 748-1057 with any questions regarding this checklist or any other commercial permit questions.

#### **General Requirements**

- Construction documents prepared and sealed by a registered design professional (RDP) for:
  - The following occupancy classifications: Institutional (I), Educational (E), High hazard (H), and per departmental policy, all Assembly (A) occupancies that have an occupant load over 100
  - All buildings over 3 stories in height
  - Any building or occupancy using non-packaged equipment or packaged equipment exceeding 300° F (other than flue gases) and pressures greater than 125 PSI
- Construction documents that are not required to be prepared by an RDP, prepared by a licensed master plumber or master mechanical worker, or a licensed Class A contractor with an associated plumbing or mechanical specialty designation
- Name, occupation, address and telephone number of the person who prepared the plans
- All pages of the plan set the same size. If different discipline designers use different page sizes, re-print the smaller pages on sheets the size of the largest in the set
- Plumbing and gas plans on the same size sheets as the other plans in the building permit package
- Plumbing/Fuel gas code edition. The current code edition is the 2015 VPC (2015 IPC) and 2015 VFGC (2015 IFGC)
- New work vs. old work, clearly distinguished
- Drawings at least 1/8" = 1'-0" scale or larger
- Handicap elevation details and dimensions for all plumbing fixtures
- Each plumbing/gas sheet clearly identified with distinct sheet numbers
- A Plumbing/Gas Permit is required prior to scheduling inspections

#### **Water Service (from meter to within 5' of building)**

- Maximum developed length of pipe
- Water demand in water supply fixture units (see VPC, Table E103.3 (2))
- Size of water service pipe. Unless otherwise indicated available pressure is assumed to be 40 PSI.

#### **Water Distribution (inside building)**

- Water heater type and location; if gas-fired indicate source of combustion air
- Size of all water supply pipes
- Any required backflow devices and their location
- Fixture schedule (indicate flush valve where provided)

#### **Waste & Vent**

- Plan and isometric view of plumbing systems

## Plumbing/Gas Checklist (Continued)

- Size and location of all waste pipe and vents (label fixtures)
- Location of all cleanouts

### **Kitchen Plumbing**

- Fixtures intended for food preparation, clearly labeled, to verify indirect connection
- All fixtures that will be drained to a grease interceptor. Only fixtures likely to receive grease-laden waste water are allowed to drain to the grease interceptor. Hand sinks, ice makers and other clear water waste shall not discharge to a grease interceptor.
- Detail of grease interceptor showing flow control, and air intake

### **Storm Water**

- Size of conductors and leaders and amount of roof area served
- Secondary drainage where applicable

### **Gas Plans**

- Total hourly gas demand of all new and existing appliances on the gas distribution system
- Hourly gas demand for each new and existing appliance connected to the gas distribution system
- Schematic plan showing lengths, sizes, materials, and pressure of the gas piping system that includes all new and existing components
- Means to supply combustion air