



Georgia State Amendments to the International Plumbing Code (2006 Edition)



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**GEORGIA STATE MINIMUM STANDARD PLUMBING CODE
(INTERNATIONAL PLUMBING CODE WITH GEORGIA STATE AMENDMENTS)**

The **INTERNATIONAL PLUMBING CODE, 2006 Edition**, published by the International Code Council, when used in conjunction with these Georgia State Amendments, shall constitute the official *Georgia State Minimum Standard Plumbing Code*.

GEORGIA STATE AMENDMENTS

CODE REFERENCE:

- (a) Replace all references to the ICC *Electrical Code* with references to the *Georgia State Minimum Standard Electrical Code (National Electrical Code with Georgia State Amendments)*.
- (b) Replace all references to the *International Energy Conservation Code (IECC)* with references to the *Georgia State Minimum Standard Energy Code (IECC with Georgia State Supplements and Amendments)*. The *Georgia State Minimum Standard Energy Code* shall be used for efficiency and coefficient of performance ratings of plumbing equipment.

**GEORGIA STATE MINIMUM
REQUIREMENTS FOR BOILERS/WATER HEATERS AND PRESSURE VESSELS**

The State's minimum requirements for boilers/water heaters and pressure vessels over 200,000 BTU/h (58.61 kW), 210 degrees Fahrenheit or 120 gallons capacity shall be established by O.C.G.A. Title 34, Chapter 11 and the Rules and Regulations of the Georgia Department of Labor.

**Revise the International Plumbing Code, 2006 Edition, as follows:*

**CHAPTER 1
ADMINISTRATION**

**Delete Chapter 1 'Administration' without substitution. Chapter 1 to remain in the Code as a reference and guide for local governments in development of their own Administrative Procedures.
(Effective January 1, 2007)*

**CHAPTER 2
DEFINITIONS**

**SECTION 202
GENERAL DEFINITIONS**

**Revise definition of 'Branch Vent' to read as follows:*

BRANCH VENT. A vent connecting two or more individual vents with a vent stack, stack vent or terminating in the open air.
(Effective January 1, 2007)

CHAPTER 3 GENERAL REGULATIONS

SECTION 300 GENERAL APPLICABILITY STANDARDS

*Add new Section 300 'General Applicability Standards' as follows:

300.1 Scope. The provisions of this code shall apply to the erection, installation, alteration, repairs, relocation, replacement, addition to, use or maintenance of plumbing systems within the state of Georgia. This code shall also regulate nonflammable medical gas, inhalation anesthetic, vacuum piping, nonmedical oxygen systems and sanitary and condensate vacuum collection systems. The installation of fuel gas distribution piping and equipment, fuel-gas-fired water heaters and water heater venting systems shall be regulated by the *International Fuel Gas Code*.

300.2 Appendices. Appendices are not enforceable unless they are specifically referenced in the body of the code or adopted by the Department of Community Affairs or the authority having jurisdiction.

300.3 Intent. The purpose of this code is to provide minimum standards to safeguard life or limb, health, property and public welfare by regulating and controlling the design, construction, installation, quality of materials, location, operation and maintenance or use of plumbing equipment and systems.

300.4 Severability. If any section, subsection, sentence, clause or phrase of this code is for any reason held to be unconstitutional, such decision shall not affect the validity of the remaining portions of this code.

300.5 General. The provisions of this code shall apply to all matters affecting or relating to structures, as set forth in Section 300. Where, in any specific case, different sections of this code specify different materials, methods of construction or other requirements, the most restrictive shall govern.

300.6 Maintenance. All plumbing systems, materials and appurtenances, both existing and new, and all parts thereof, shall be maintained in proper operating condition in accordance with the original design in a safe and sanitary condition. All devices or safeguards required by this code shall be maintained in compliance with the code edition under which they were installed. The owner or the owner's designated agent shall be responsible for maintenance of plumbing systems. To determine compliance with this provision, the code official shall have the authority to require any plumbing system to be reinspected.

300.7 Material and equipment reuse. Materials, equipment and devices shall not be reused unless such elements have been reconditioned, tested, placed in good and proper working condition and approved.

(Effective January 1, 2007)

SECTION 304 RODENTPROOFING

*Revise Section 304.4 'Openings for pipes' to read as follows:

304.4 Openings for pipes. In or on structures where openings have been made in walls, floors or ceilings for the passage of pipes, such openings shall be sealed through the use of metal collars or other approved methods.

(Effective January 1, 2007)

SECTION 305 PROTECTION OF PIPES AND PLUMBING SYSTEM COMPONENTS

*Revise Section 305.6.1 'Sewer depth' to read as follows:

305.6.1 Sewer depth. Building sewers shall be a minimum of 6 inches (152.4 mm) below grade.

(Effective January 1, 2007)

SECTION 306 TRENCHING, EXCAVATION AND BACKFILL

*Revise Section 306.3 'Backfilling' to read as follows:

306.3 Backfilling. Loose earth free from rocks, broken concrete, frozen chunks and other rubble, shall be placed in the trench in 6-inch (152.4 mm) layers and tamped in place until the crown of the pipe is covered by a minimum of 6 inches (152.4 mm) of tamped earth. The backfill under and beside the pipe shall be compacted for pipe support. Backfill shall be brought up evenly on both sides of the pipe so that the pipe remains aligned. In instances where the manufacturer's installation instructions for materials are more restrictive than those prescribed by the code, the material shall be installed in accordance with the more restrictive requirement.

(Effective January 1, 2007)

*Add new Section 306.5 'Open trenches' as follows:

306.5 Open trenches. All excavations required to be made for the installation of a building sewer, building drainage system, or any part thereof within the walls of a building shall be open trench work and shall be kept open until the piping has been inspected, tested and approved.

(Effective January 1, 2007)

SECTION 308 PIPING SUPPORT

*Delete Section 308.6 'Sway bracing' without substitution.
(Effective January 1, 2007)

*Delete Section 308.7 'Anchorage' without substitution.
(Effective January 1, 2007)

SECTION 311 TOILET FACILITIES FOR WORKERS

*Delete Section 311 'Toilet Facilities For Workers' without substitution.
(Effective January 1, 2007)

SECTION 312 TESTS AND INSPECTIONS

*Revise Section 312.1 'Required tests' to read as follows:

312.1 Required tests. The permit holder shall make the applicable tests prescribed in Sections 312.2 through 312.9 to determine compliance with the provisions of this code. The permit holder shall give reasonable advance notice to the code official when the plumbing work is ready for tests. The equipment, material, power and labor necessary for the inspection and test shall be furnished by the permit holder and the permit holder shall be responsible for determining that the work will withstand the test pressure prescribed in the following tests. All plumbing system piping shall be tested with either water or by air. After the plumbing fixtures have been set and their traps filled with water, the entire drainage system shall be submitted to final tests. The code official shall require the removal of any cleanouts if necessary to ascertain whether the pressure has reached all parts of the system.
(Effective January 1, 2007)

*Revise Section 312.5 'Water supply system test' to read as follows:

312.5 Water supply system test. Upon completion of a section of or the entire water supply system, the system, or portion completed shall be tested and proved tight under a water pressure not less than the working pressure of the system; or, by an air test of not less than 50 psi (344 kPa). This pressure shall be held for at least 15 minutes. The water or air utilized for tests shall be from a non-contaminated source. The required tests shall be performed in accordance with this section and Section 107.
(Effective January 1, 2007)

SECTION 314 CONDENSATE DISPOSAL

*Delete Section 314 'Condensate Disposal' without substitution.
(Effective January 1, 2007)

**CHAPTER 4
FIXTURES, FAUCETS AND FIXTURE FITTINGS**

**SECTION 401
GENERAL**

*Add new Section 401.4 'Prohibited locations' as follows:

401.4 Prohibited Locations. No floor drains or other plumbing fixtures except electric water heaters shall be installed in a room containing air handling machinery when such room is used as a plenum.

Exception: Deep-seal trap floor drains consisting of a minimum 4-inch (102 mm) seal and supplied with a trap primer connected to a water distribution pipe shall be permitted.
(Effective January 1, 2007)

**SECTION 403
MINIMUM PLUMBING FACILITIES**

*Revise Table 403.1 'Minimum Number of Required Plumbing Fixtures^a' to delete the requirements for 'service sink' without substitution.
(Effective January 1, 2007)

*Revise Table 403.1 'Minimum Number of Required Plumbing Fixtures^a' by adding the following requirement under the column labeled 'Other' for line number '7' descriptions; 'One- and two-family dwellings' and 'Apartment house':

Detached single-family, duplex and multi-family dwelling structures three stories or less in height shall have not less than two exterior hose bibs, sill cocks or outside hydrants with one being located on the side or rear of the structure.
(Effective January 1, 2007)

*Revise exception of Section 403.4.1 'Location of toilet facilities in occupancies other than covered malls' to read as follows:

403.4.1 Location of toilet facilities in occupancies other than covered malls.

Exception: The location and maximum travel distances to required employee toilet facilities in factory, storage and industrial occupancies are permitted to exceed that required by this section, provided that the location and maximum travel distance are approved.
(Effective January 1, 2007)

**SECTION 406
AUTOMATIC CLOTHES WASHERS**

*Revise Section 406.3 'Waste connection' to read as follows:

406.3 Waste connection. The waste from an automatic clothes washer shall discharge through an air break into a standpipe in accordance with Section 802.4 or into a laundry sink. The trap

and fixture drain for an automatic clothes washer standpipe shall be a minimum of 2 inches (51 mm) in diameter. The automatic clothes washer fixture drain shall connect to a building drain, branch drain or drainage stack a minimum of 3 inches (76 mm) in diameter. Automatic clothes washers that discharge by gravity shall be permitted to drain to a waste receptor or an approved trench drain.

(Effective January 1, 2007)

SECTION 410 DRINKING FOUNTAINS

*Revise Section 410.1 'Approval' to read as follows:

410.1 Approval. Drinking fountains shall conform to ASME A112.19.1M, ASME A112.19.2M or ASME A112.19.9M and water coolers shall conform to ARI 1010. Drinking fountains and water coolers shall conform to NSF 61, Section 9. Where water is served in restaurants and/or nightclubs, drinking fountains shall not be required. In other occupancies, where drinking fountains are required, water coolers or bottled water dispensers shall be permitted to be substituted for not more than 50 percent of the required drinking fountains.

(Effective January 1, 2007)

CHAPTER 5 WATER HEATERS

SECTION 501 GENERAL

*Add new Section 501.9 'Water heaters over 200,000 BTU/h' to read as follows:

501.9 Water heaters over 200,000 BTU/h. The State's minimum requirements for boiler/water heaters and pressure vessels over 200,000 BTU/h (58.61 kW), 210 degrees Fahrenheit or 120 gallons capacity shall be established by O.C.G.A. Title 34, Chapter 11 and the Rules and Regulations of the Georgia Department of Labor.

(Effective January 1, 2007)

SECTION 502 INSTALLATION

*Revise Section 502.3 'Water heaters installed in attics' to read as follows:

502.3 Water heaters installed in attics. Attics containing a water heater shall be provided with an opening and unobstructed passageway large enough to allow removal of the water heater. The passageway to the water heater shall not be less than 30 inches (762 mm) high and 22 inches (559 mm) wide. The passageway shall have continuous solid flooring not less than 24 inches (610 mm) wide. A level service space at least 30 inches (762 mm) deep and 30 inches (762 mm) wide shall be present at the front or service side of the water heater. The clear access opening

dimensions shall be a minimum of 20 inches by 30 inches (508 mm by 762 mm) where such dimensions are large enough to allow removal of the water heater.
(Effective January 1, 2007)

SECTION 504 SAFETY DEVICES

*Delete Section 504.6 ‘Requirements for discharge piping’ and substitute the following:

504.6 Requirements for discharge piping. The relief valve shall discharge full size, separately to a safe place of disposal such as a concrete floor, outside the building, an indirect waste receptor, or other approved location. The discharge shall terminate in a manner that does not cause injury to occupants in the immediate area or structural damage to the building. When the relief valve discharge piping goes upward, a thermal expansion control device shall be installed on the cold water distribution or service pipe in accordance with Section 607.3.2. If the discharge pipe is trapped, provisions shall be made to drain the low point of the trapped portion of the discharge pipe.

(Effective January 1, 2007)

*Delete Section 504.7 ‘Required pan’ and substitute the following:

504.7 Required pan. Pans shall be installed under storage-type water heaters or water storage tanks installed in attics or above ceilings. The pan shall be galvanized steel having a minimum thickness of 24 gauge, or other pans approved for such use. Pans are not required under tankless water heaters.

(Effective January 1, 2007)

SECTION 506 MINIMUM CAPACITIES FOR RESIDENTIAL WATER HEATERS

*Add new Section 506 ‘Minimum Capacities For Residential Water Heaters’ as follows:

506.1 General. Water heaters installed in residential occupancies shall be sized in accordance with Table 506. Other methods used to heat water shall be sized to meet the total draw and recovery rates as listed in Table 506.

(Effective January 1, 2007)

*Add new Table 506 ‘Minimum Capacities For Residential Water Heaters’¹.

See page 17.

(Effective January 1, 2007)

CHAPTER 6 WATER SUPPLY AND DISTRIBUTION

SECTION 605 MATERIALS, JOINTS AND CONNECTIONS

*Revise Section 605.9 ‘Prohibited joints and connections’ to add exception to Item #4 ‘Saddle-type fittings’ as follows:

605.9 Prohibited joints and connections.

4. Saddle-type fittings.

Exception: Saddle-type fittings can be used to connect refrigerator ice makers to an existing residential unit water distribution system provided the manufacturer’s installation instructions for the distribution piping do not prohibit the use of saddle fittings. Saddle fittings can be used to install thermal expansion tanks to an existing residential unit water distribution system if approved by the manufacturer of the tank.

(Effective January 1, 2007)

*Revise Section 605.14.3 ‘Soldered joints’ to read as follows:

605.14.3 Soldered joints. Solder joints shall be made in accordance with the methods of ASTM B 828 except a flux conforming to NSF 61 shall be used. All cut tube ends shall be reamed to the full inside diameter of the tube end. All joint surfaces shall be cleaned. The joint shall be soldered with a solder conforming to ASTM B 32. The joining of water supply piping shall be made with lead-free solder and fluxes. “Lead free” shall mean a chemical composition equal to or less than 0.2-percent lead.

(Effective January 1, 2007)

*Revise Section 605.15.4 ‘Soldered joints’ to read as follows:

605.15.4 Soldered joints. Solder joints shall be made in accordance with the methods of ASTM B 828 except a flux conforming to NSF 61 shall be used. All cut tube ends shall be reamed to the full inside diameter of the tube end. All joint surfaces shall be cleaned. The joint shall be soldered with a solder conforming to ASTM B 32. The joining of water supply piping shall be made with lead-free solders and fluxes. “Lead free” shall mean a chemical composition equal to or less than 0.2-percent lead.

(Effective January 1, 2007)

**SECTION 606
INSTALLATION OF THE BUILDING WATER DISTRIBUTION SYSTEM**

*Revise Section 606.2 ‘Location of shutoff valves’ to add Location #4 as follows:

606.2 Location of shutoff valves.

4. Shutoff valves to water supplies for refrigerators with automatic icemakers shall be accessible on the same floor as said refrigerators.

(Effective January 1, 2007)

**SECTION 607
HOT WATER SUPPLY SYSTEM**

*Delete Section 607.1 'Where required' and substitute the following:

607.1 Where required. In occupied structures, hot water shall be supplied to all plumbing fixtures and equipment utilized for bathing, washing, culinary purposes, cleansing, laundry or building maintenance. In nonresidential occupancies, hot water or tempered water shall be supplied for bathing and washing purposes except for hand-washing facilities. Accessible hand-washing facilities regardless of the occupancy shall not be required to be supplied with hot water. (Effective January 1, 2007)

*Revise Section 607.2.3 'Recirculating pump' to read as follows:

607.2.3 Recirculating pump. Where a thermostatic mixing valve is installed at the water heater and is used in a system with a hot water recirculating pump, the hot water or tempered water return line shall be routed to the cold water inlet pipe of the water heater and the cold water inlet pipe or the hot water return connection of the thermostatic mixing valve. (Effective January 1, 2007)

SECTION 608 PROTECTION OF POTABLE WATER SUPPLY

*Revise Section 608.16.5 'Connections to lawn irrigation systems' to read as follows:

608.16.5 Connections to lawn irrigation systems. The potable water supply to lawn irrigation systems shall be protected against backflow by an atmospheric-type vacuum breaker, a pressure-type vacuum breaker, a double-check backflow prevention assembly or a reduced pressure principle backflow preventer. A valve shall not be installed downstream from an atmospheric vacuum breaker. Where interconnected chemical dispensers are used in conjunction with lawn irrigation systems, the potable water supply shall be protected against backflow by a reduced pressure principle backflow preventer. (Effective January 1, 2007)

SECTION 610 DISINFECTION OF POTABLE WATER SYSTEM

*Revise first paragraph of Section 610.1 'General' to read as follows:

610.1 General. New or repaired potable water systems shall be flushed and purged of deleterious matter. Systems that cannot be adequately flushed and purged may require disinfection in accordance with a prescribed method. In the absence of a prescribed method, the procedure described in either AWWA C651 or AWWA C652, or as described in this section shall apply. (Remainder of section left unchanged.) (Effective January 1, 2007)

CHAPTER 7 SANITARY DRAINAGE

SECTION 701 GENERAL

*Revise Section 701.2 'Sewer required' to read as follows:

701.2 Sewer required. Every building in which plumbing fixtures are installed and all premises having drainage piping shall be connected to a public sewer, where available, or an approved private sewage disposal system.
(Effective January 1, 2007)

SECTION 703 BUILDING SEWER

*Revise Section 703.2 'Drainage pipe in filled ground' to read as follows:

703.2 Drainage pipe in filled ground. Where a building sewer or building drain is installed on unstable fill or unstable ground, the drainage pipe shall conform to one of the standards for ABS plastic pipe, cast-iron pipe, copper or copper-alloy tubing, or PVC plastic listed in Table 702.3.
(Effective January 1, 2007)

SECTION 705 JOINTS

*Revise Section 705.8.2 'Solvent cementing' to read as follows:

705.8.2 Solvent cementing. Joint surfaces shall be clean and free from moisture. If a primer is required by the solvent manufacturer, a purple primer that conforms to ASTM F 656 shall be applied. Solvent cement not purple in color and conforming to ASTM D 2564, CSA B137.3, CSA B181.2 or CSA B182.1 shall be applied to all joint surfaces. The joint shall be made while the cement is wet and shall be in accordance with ASTM D 2855. Solvent-cement joints shall be permitted above or below ground.
(Effective January 1, 2007)

*Revise Section 705.9.3 'Soldered joints' to read as follows:

705.9.3 Soldered joints. Solder joints shall be made in accordance with the methods of ASTM B 828 except a flux conforming to NSF 61 shall be used. All cut tube ends shall be reamed to the full inside diameter of the tube end. All joint surfaces shall be cleaned. The joint shall be soldered with a solder conforming to ASTM B 32. The joining of water supply piping shall be made with lead-free solders and fluxes. "Lead free" shall mean a chemical composition equal to or less than 0.2-percent lead.
(Effective January 1, 2007)

*Revise Section 705.10.3 'Soldered joints' to read as follows:

705.10.3 Soldered joints. Solder joints shall be made in accordance with the methods of ASTM B 828 except a flux conforming to NSF 61 shall be used. All cut tube ends shall be reamed to the full inside diameter of the tube end. All joint surfaces shall be cleaned. The joint shall be soldered with a solder conforming to ASTM B 32. The joining of water supply piping shall be made with lead-free solders and fluxes. "Lead free" shall mean a chemical composition equal to or less than 0.2-percent lead.

(Effective January 1, 2007)

*Revise Section 705.14.2 'Solvent cementing' to read as follows:

705.14.2 Solvent cementing. Joint surfaces shall be clean and free from moisture. If a primer is required by the solvent manufacturer, a purple primer that conforms to ASTM F 656 shall be applied. Solvent cement not purple in color and conforming to ASTM D 2564, CSA B137.3, CSA B181.2 or CSA B182.1 shall be applied to all joint surfaces. The joint shall be made while the cement is wet and shall be in accordance with ASTM D 2855. Solvent-cement joints shall be permitted above or below ground.

(Effective January 1, 2007)

SECTION 706 CONNECTIONS BETWEEN DRAINAGE PIPING AND FITTINGS

*Revise Section 706.3 'Installation of fittings' to delete exception and read as follows:

706.3 Installation of fittings. Fittings shall be installed to guide sewage and waste in the direction of flow. Change in direction shall be made by fittings installed in accordance with Table 706.3. Change in direction by combination fittings, side inlets or increasers shall be installed in accordance with Table 706.3 based on the pattern of flow created by the fitting. Double sanitary tee patterns shall not receive the discharge of back-to-back fixtures or appliances with pressure or pumping action discharge. Water closets shall not be combined with fixtures other than water closets on a double drainage fitting.

(Effective January 1, 2007)

*Delete Section 706.4 'Heel- or side-inlet quarter bends' without substitution.

(Effective January 1, 2007)

SECTION 708 CLEANOUTS

*Delete Section 708.3.1 'Horizontal drains within buildings' and substitute the following:

708.3.1 Horizontal drains within buildings. Each horizontal drainage pipe shall be provided with a cleanout at the upstream end of the pipe and shall be provided with cleanouts located not more than 100 feet (30 480 mm) apart.

Exceptions: The following plumbing arrangements are acceptable in lieu of the upstream cleanout:

1. "P" traps connected to the drainage piping with slip joints or ground joint connections.

2. "P" traps into which floor drains, shower drains, or tub drains with removable strainers discharge.
 3. "P" traps into which the straight-through type waste and overflow discharge with the overflow connecting to the top of the tee.
 4. "P" traps into which residential washing machines discharge.
 5. Test tees or cleanouts in a vertical pipe above the flood-level rim of the fixtures that the horizontal pipe serves and not more than 4 feet (1219 mm) above the finish floor.
 6. Cleanout near the junction of the building drain and the building sewer which may be rodded both ways.
 7. Water closets for the water closet fixture branch only.
- (Effective January 1, 2007)

*Revise Section 708.3.2 'Building sewers' to read as follows:

708.3.2 Building sewers. Building sewers shall be provided with cleanouts located not more than 100 feet (30 480 mm) apart measured from the upstream entrance of the cleanout. An additional cleanout shall be provided within 10 feet (3048 mm) of the public right of way. For building sewers 8 inches (203 mm) and larger, manholes shall be provided and located at each change in direction and at intervals of not more than 400 feet (122 m). Manholes and manhole covers shall be of an approved type.

(Effective January 1, 2007)

*Delete Section 708.3.4 'Base of stack' without substitution.

(Effective January 1, 2007)

*Revise Section 708.3.5 'Building drain and building sewer junction' to read as follows:

708.3.5 Building drain and building sewer junction. There shall be a cleanout installed at or near the junction of the building drain and the building sewer. The cleanout shall be outside the building wall unless otherwise approved and shall be brought up to finished ground level. An approved two-way cleanout is allowed to be used at this location to serve as a required cleanout for both the building drain and building sewer.

(Effective January 1, 2007)

*Revise first sentence of Section 708.7 'Minimum size' to read as follows:

708.7 Minimum size. Cleanouts shall be the same nominal size as the pipe they are connected to, up to 4 inches (102 mm). For pipes larger... (Remainder of Section left unchanged)

(Effective January 1, 2007)

CHAPTER 9 VENTS

SECTION 904 VENT TERMINALS

*Revise first sentence of Section 904.1 'Roof extension' by replacing "[NUMBER] inches (mm)" with "6 inches (152 mm)". (Remainder of Section left unchanged)
(Effective January 1, 2007)

SECTION 906 FIXTURE VENTS

*Delete exception to Section 906.1 'Distance of trap from vent' without substitution.
(Effective January 1, 2007)

SECTION 910 WASTE STACK VENT

*Revise first sentence of Section 910.2 'Stack installation' to read as follows:

910.2 Stack installation. The waste stack shall be vertical. Every fixture drain... (Remainder of Section left unchanged)
(Effective January 1, 2007)

SECTION 911 CIRCUIT VENTING

*Revise last sentence of Section 911.2 'Vent connection' to read as follows:

911.2 Vent connection.
(Beginning of Section left unchanged)
...with Section 905. The circuit vent may receive waste discharge from fixtures located within the same branch interval, provided that the wet portion remains the same size as the horizontal branch.
(Effective January 1, 2007)

SECTION 912 COMBINATION DRAIN AND VENT SYSTEM

*Revise Section 912.2.2 'Connection' to read as follows:

912.2.2 Connection. The combination drain and vent system shall be provided with a dry vent connected at any point within the system or the system shall connect to a horizontal drain that is vented in accordance with one of the venting methods specified in this chapter. Combination drain and vent systems connecting to building drains or waste stacks shall be provided with a dry vent. The vent connection to the combination drain and vent pipe shall extend vertically a minimum of 6 inches (152 mm) above the flood level rim of the highest fixture being vented before offsetting horizontally.
(Effective January 1, 2007)

*Add new Section 912.4 'Appendix reference' as follows:

912.4 Appendix reference. Additional provisions for *safe waste systems* are contained in Appendix H 'Section 912: Combination Drain and Vent System'.
(Effective January 1, 2007)

*Add new Appendix H 'Section 912: Combination Drain and Vent System'. See pages 18 through 20.
(Effective January 1, 2007)

CHAPTER 10 TRAPS, INTERCEPTORS AND SEPARATORS

SECTION 1002 TRAP REQUIREMENTS

*Revise first paragraph of Section 1002.1 'Fixture traps' to read as follows:

1002.1 Fixture traps. Each plumbing fixture shall be separately trapped by a water-seal trap, except as otherwise permitted by this code. The trap shall be placed as close as possible to the fixture outlet. The vertical distance from the fixture outlet to the trap weir shall not exceed 24 inches (610 mm). The distance of a clothes washer standpipe above a trap shall conform to Section 802.4. A fixture shall not be double trapped.

(Effective January 1, 2007)

*Revise Section 1002.4 'Trap seals' to read as follows:

1002.4 Trap seals. Each fixture trap shall have a liquid seal of not less than 2 inches (51 mm) and not more than 4 inches (102 mm), or deeper for special designs relating to accessible fixtures. Where a trap seal is subject to loss by evaporation, the trap seal shall be protected by a trap seal primer or other approved method. A trap seal primer valve shall conform to ASSE 1018 or ASSE 1044.

(Effective January 1, 2007)

*Delete Section 1002.8 'Recess for trap connection' without substitution.

(Effective January 1, 2007)

SECTION 1003 INTERCEPTORS AND SEPARATORS

*Delete exception to Section 1003.4 'Oil separators required' and revise to read as follows:

1003.4 Oil separators required. In elevator pits where oil containment complies with the Georgia Department of Labor Elevator Rules and Regulations, no additional oil separator shall be required. At repair garages, car-washing facilities, at factories where oily and flammable liquid wastes are produced and in hydraulic elevator pits, separators shall be installed into which all oil-bearing, grease-bearing or flammable wastes shall be discharged before emptying into the building drainage system or other point of disposal.

(Effective January 1, 2007)

**CHAPTER 13
REFERENCED STANDARDS**

*Revise Referenced Standard ‘NSF’ to read as follows:

NSF	NSF International 789 Dixboro Road Ann Arbor, MI 48105	
	<hr/>	
Standard reference number	Title	Referenced in code section number
61—2003e	Drinking Water System Components—Health Effects.....	424.1, 605.3, 605.4, 605.5, 611.3, 705.9.3 (GA Amendment), 705.10.3 (GA Amendment)

(Effective January 1, 2007)

End of Amendments.

**TABLE 506
MINIMUM CAPACITIES FOR RESIDENTIAL WATER HEATERS¹**

**See footnote (1) located below table for manufacturer's specifications.*

Fuel		Gas	Elec.	Oil	Gas	Elec.	Oil	Gas	Elec.	Oil	Gas	Elec.	Oil
# of Bedrooms		1			2			3			----		
1 to 1 ½ Baths	Storage (gal)	20	20	30	30	30	30	30	40	30	----	----	----
	Input	27	2.5	70	36	3.5	70	36	4.5	70	----	----	----
	Draw (gph)	43	30	89	60	44	89	60	58	89	----	----	----
	Recovery (gph)	23	10	59	30	14	59	30	18	59	----	----	----
# of Bedrooms		2			3			4			5		
2 to 2 ½ Baths	Storage (gal)	30	40	30	40	50	30	40	50	50	50	66	30
	Input	36	4.5	70	36	5.5	70	38	5.5	70	47	5.5	70
	Draw (gph)	60	58	89	70	72	89	72	72	89	90	88	89
	Recovery (gph)	30	18	59	30	22	59	32	22	59	40	22	59
# of Bedrooms		3			4			5			6		
3 to 3 ½ Baths	Storage (gal)	40	50	30	50	66	30	50	66	30	50	80	40
	Input	38	5.5	70	38	5.5	70	47	5.5	70	50	5.5	70
	Draw (gph)	72	72	89	82	88	89	90	88	89	92	102	99
	Recovery (gph)	32	22	59	32	22	59	40	22	59	42	22	59

1 gal=3.7854 L
1 gph=1.05 mL/s

NOTE:

- Storage capacity, input and recovery requirements indicated in the table are typical and may vary with each individual manufacturer. Any combination of these requirements to produce the 1-hour draw stated shall be satisfactory. Recovery based on 100 °F (37.8 °C) water temperature rise. The input rating is in units of 1000 BTU/h for gas and oil, and 1000 W/h for electric. EXAMPLE: For a 3-bedroom, 2-bath residence, there are three choices as follows: A 40 gal storage/30 gph recovery gas heater; a 50 gal storage/22 gph recovery electric heater; or a 30 gal storage/59 gph recovery oil heater; or an equivalent combination which will produce at least a 70 gph total draw.

APPENDIX H
SECTION 912: COMBINATION DRAIN AND VENT SYSTEM

912.4 Safe Waste System.

912.4.1 Definitions.

SAFE WASTE SYSTEM. A horizontal waste system composed of a main waste line, branch waste lines, auxiliary vents and a master trap with a fresh air vent (See Figures 1 and 1A).

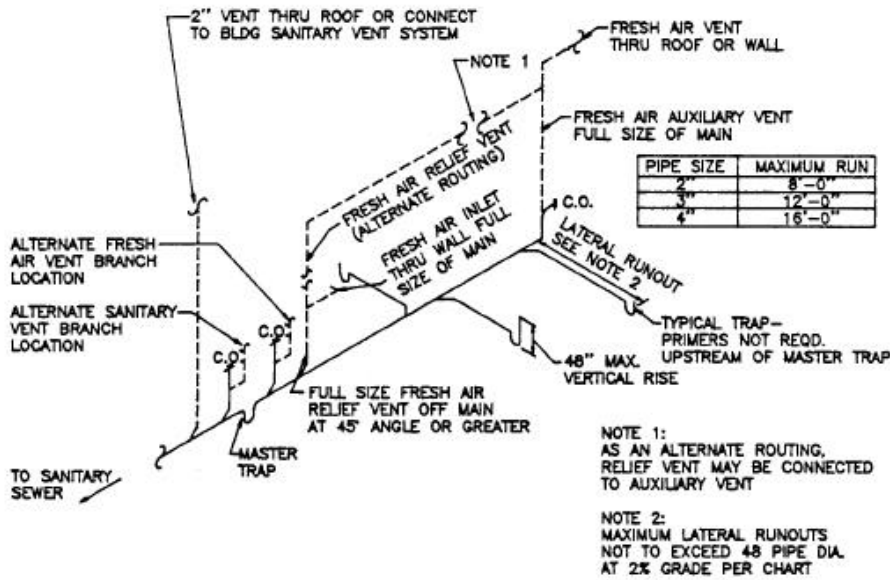


FIGURE 1 — SAFE WASTE SYSTEM

EXAMPLE

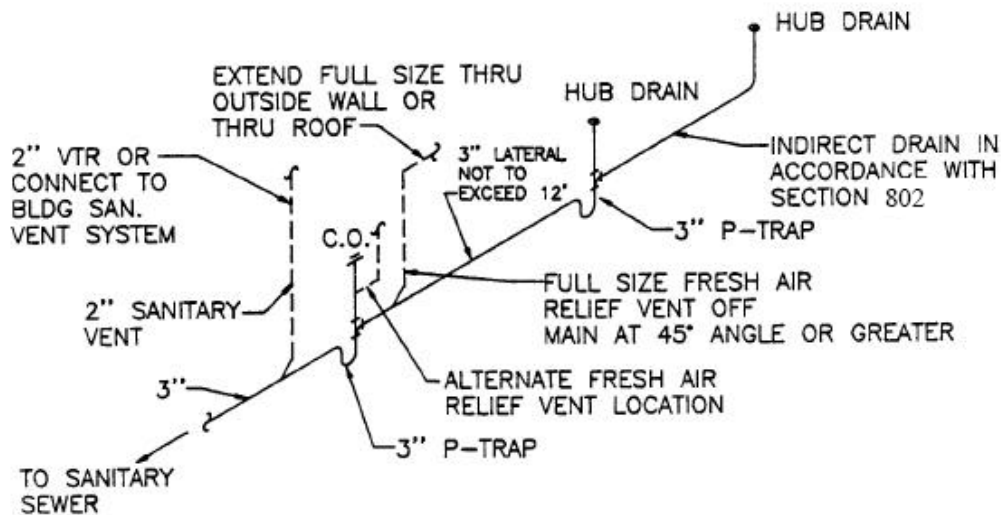


FIGURE 1A — ALTERNATE SAFE WASTE SYSTEM FOR INSTALLATION NOT EXCEEDING TWO FLOOR OPENINGS

EXAMPLE

912.4.2 Where required. As an alternative to other waste systems required by this code, the waste in establishments listed in Section 912.4.3 may be collected in a safe waste system. Plans and specifications for each safe waste system shall be submitted to the Plumbing Official and approval shall be obtained before installation is started.

912.4.3 Location. All establishments where food is manufactured, or processed, having floor drains, hub drains, such as restaurants, cafes, snack bars, grocery stores, meat, poultry and fish markets, drugstores, bakeries, dairies, taverns and cocktail lounges, shall collect such floor drains, hub drains, or open site drains into a safe waste system. Other fixtures not specifically prohibited by Section 912.4.4 may also be collected on the safe waste system.

912.4.4 Limits of use. Each safe waste system shall be limited to one floor. Water closets, urinals, bathtubs, showers, food grinders, disposal units or exterior drain units (such as condensing units drains) shall not be permitted on a safe waste system.

912.4.5 Safe waste system. The main waste line for the safe waste system is connected to the sanitary waste system through the master trap. Fixtures should be connected directly or indirectly as described in Chapter 7.

912.4.6 Master trap. The master trap shall not be less than 3 inches (76 mm) in size and shall be located inside the building unless otherwise approved. Provide two cleanouts at the master trap, one on the house side and one in the waste line downstream of the master trap weir. The top of the cleanouts shall be flush with the finish floor.

912.4.7 Master trap venting. The master trap shall be vented with two vents. A fresh air vent no less than the trap size shall extend from the house side of the trap to the outside of the building, by either (a) extending through the roof independent of any sanitary vent; (b) extending through the outside wall, 12 inches (305 mm) above the flood rim of any connected fixture and terminating with a perforated or bar grate cover or (c) connecting to a fresh air auxiliary vent. A 2-inch (51 mm) sanitary vent shall extend from the sewer side of the master trap through the roof or connect with a dry sanitary vent, in accordance with Chapter 9.

912.4.8 Auxiliary vent. The auxiliary vent shall be the same size as the master trap and extend from the main waste line through the roof independent of any sanitary vent or may terminate through an outside wall using an acceptable bar grate. When safe waste systems are located on two or more floors of a building, the fresh air and auxiliary vents may be connected together and extend to the outside of the building independent of any sanitary vent.

912.4.9 Waste lines and connections. See Chapter 7 for size and capacity. The main waste line shall be the same size as the master trap. The branch waste lines shall not exceed a maximum length of 48 pipe diameters, also refer to Table 710.1 for the maximum number of fixture units. Nowhere shall the slope of the safe waste system exceed a 1/4-inch (6.4 mm) per foot. Branch waste line exceeding 48 pipe diameters in length will require a 2-inch (51 mm) vent to extend through the roof, or be connected into the auxiliary vent. Trap primers are not required for traps on the house side of the master trap.

912.4.10 Walk-in coolers. Walk-in coolers requiring a floor drain inside the cooler shall have an untrapped floor drain type casting with a bar grate strainer, and a ball check back water valve. The waste line from the drain located inside the cooler shall extend to a floor drain located outside the cooler. The outside floor drain shall have a bar grate strainer, flashing ring, when required, with an auxiliary inlet for the waste line from the inside drains connected above the trap.

912.4.11 Poultry, Meat or Fish Markets, or Processing Plants.

912.4.11.1 Establishments which clean, process or market poultry, meat, or fish shall have their waste collected in a safe waste system. An interceptor trap shall be installed for these establishments in lieu of a master trap. Cleanouts and venting shall be as for a master trap.

912.4.11.2 Interceptor traps are described in Chapter 10. Drains from racks and tables must spill onto the floor and the floor shall be graded to the floor drains to catch all refuse from the killing or the cleaning operations. Floor drains shall have removable grate tops. An adequate water supply shall be provided for cleaning floors. All water supply inlets shall be protected with backflow preventers as described in Section 608. Interceptors shall be a maximum of 24 x 24 inches (610 mm x 610 mm).